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January 31, 2020

Mr. Kevin Winn, P.E.
Commissioner of Public Works
Town of Bedford Highway Department
301 Adams Street
Bedford, NY 10507

Re: Sampling Event - December 2019
Katonah Municipal Well Supplemental Site Investigation

Chazen Job # 41433.00

Dear Commissioner Winn:

The Chazen Companies (Chazen) completed a sampling event for the Katonah Municipal Well (KMW) site in the Town of Bedford, Westchester County, New York. This sampling event occurred on December 16, 2019 and was conducted in accordance with the EPA approved Work Plan, Sampling and Analysis Plan, and Quality Assurance Project Plan for the project, using the same methods and procedures used for previous sampling events.

The depth to water and depth to bottom measurements were collected from the on-site monitoring wells and distance from the surface water measuring point to the surface water in the reservoir. The depth to bottom in the wells was unchanged since the previous sampling events, indicating no measurable siltation of the wells has occurred since then.

The depth measurements and survey measuring point elevations were used to determine the water elevation. The calculated elevation data is included in the summary table below along with the historical elevation data collected by Chazen since December 2014.

Water Table Elevation									
Location	**MP**	**Dec-14**	**Mar-15**	**Jul-15**	**Sep-15**	**Sep-16**	**Apr-17**	**Sep-17**	**Dec-19**
MW-11R	219.66	198.88	198.96	199.17	198.81	198.78	199.39	198.96	199.19
MW-1S	210.54	198.88	198.95	199.13	198.79	198.75	198.98	198.84	199.15
MW-4R	213.05	198.87	198.95	199.12	198.78	198.75	199.38	198.80	199.11
MW-2S	226.91	198.86	198.97	199.14	198.78	198.78	199.41	198.51	199.24
Bridge	232.50	198.50	na	199.13	198.48	198.44	199.16	198.23	198.72
Elevation in feet above mean sea level									

The laboratory results were reviewed and summarized. A "Hit" summary table of any compound detected in one or more samples at or above the method detection limit is attached. No compounds were reported at a

concentration that exceeds the applicable water quality standard. A summary of the PCE concentration reported in the well network is provided below.

[PCE] Summary					
DATE	**MW-11R**	**MW-1S**	**KMW-PW**	**MW-4R**	**MW-2S**
12/4/14	0.53	0.55	4.4	**9.3**	nd@0.2
3/10/15	0.74	0.71	**5.7**	**11**	nd@0.2
6/5/15	0.65	0.55	4.1	*	nd@0.2
9/10/15	nd@2.5	nd@2.5	**5.0**	**7.2**	nd@2.5
9/21/16	0.83	0.56	3.8	**5.7**	nd@0.2
4/4/17	0.86	0.68	3.8	**5.3**	nd@0.2
9/22/17	0.53	0.50	2.9	3.9	nd@0.2
12/16/19	nd@0.20	0.400 J	2.37	3.59	nd@0.2

* = Results for MW-4R not representative
All results in µg/l

The following supporting documents for the December 2019 sampling event are attached for your use:

- Field sampling logs for the five wells;
- Table summarizing VOC "hits" with comparison to groundwater standards;
- Laboratory Analytical Report; and,
- Data Usability Summary Report (DUSR)

The December 2019 sampling event has updated the historic data record which demonstrates site-related compounds of concern have remained below standards for over two years at trace concentrations that continue to decline.

Please let me know at your convenience, if you have any questions or comments regarding this submission.

Sincerely,

Kevin McGrath, P.G.

STATE OF NEW YORK
KEVIN MCGRATH
LICENSED PROFESSIONAL GEOLOGIST
001507

cc: Town of Bedford
Will Olsen, P.G.

Attachments: field logs, summary table, lab report, DUSR

Map Name: CROTON FALLS
Print Date: 12/09/12
Scale: 1 inch = 4,000 ft.

Map Center: 041° 15' 25.20" N 073° 40' 43.96" W
Horizontal Datum: NAD27

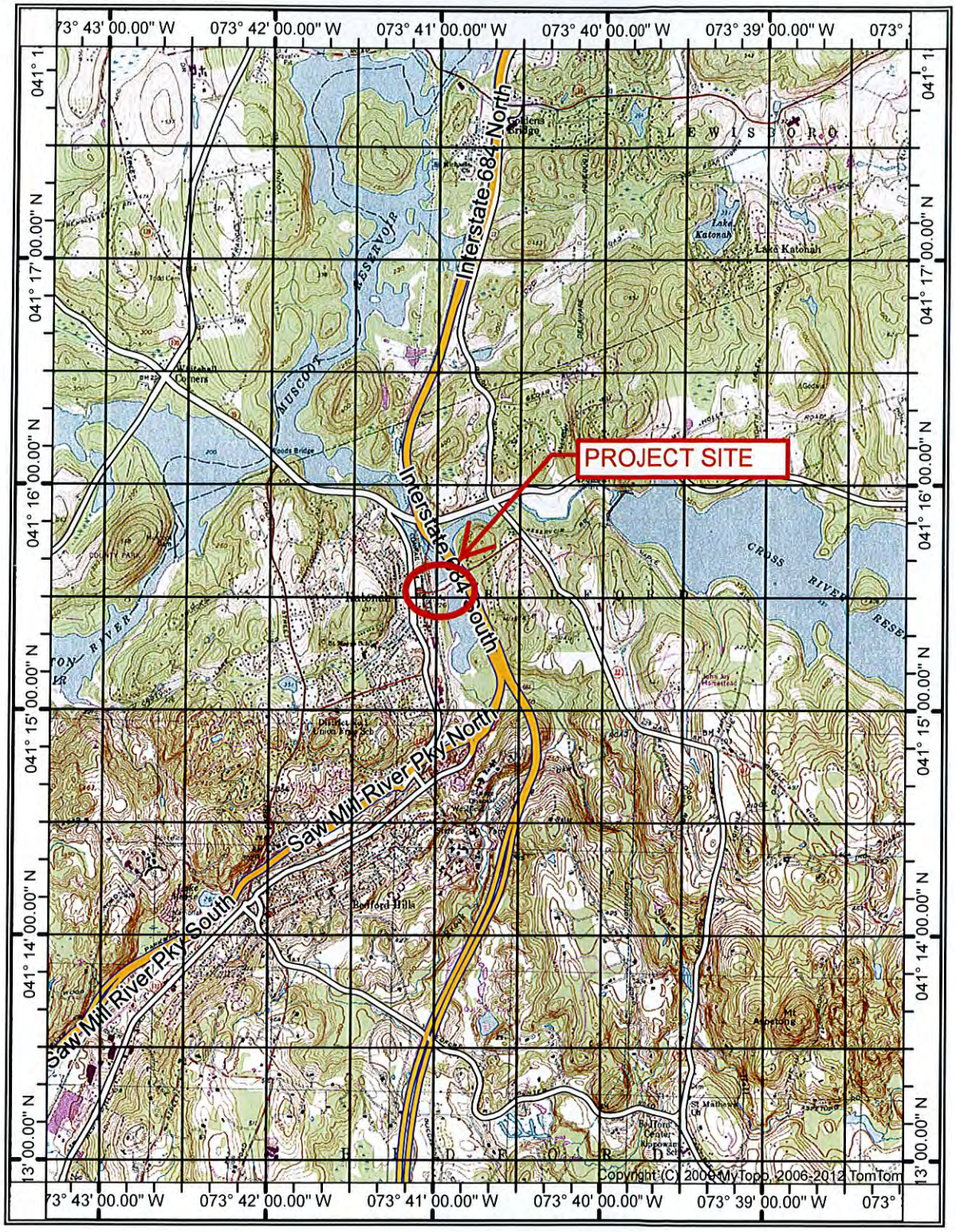
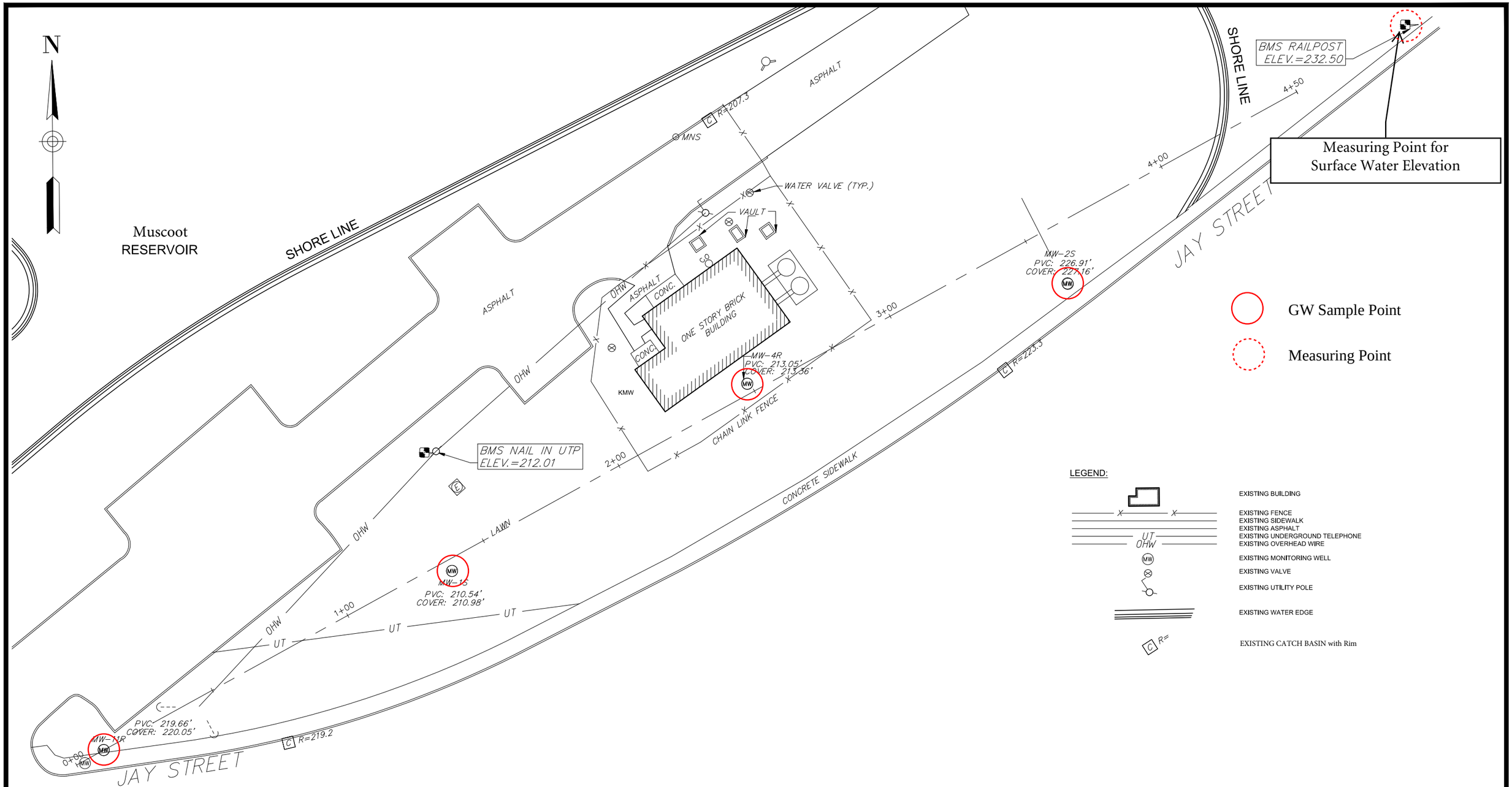


FIGURE 1
PROJECT SITE LOCATION
KATONAH MUNICIPAL WELL
KATONAH, NEW YORK



Drawing Name: X:\4\41400-41499\41433.00 Bedford Katonah Wellfield\DWG\FIG2_41433_00.dwg Date Printed: May 05, 2015, 11:43am

CHAZEN ENGINEERING, LAND SURVEYING
& LANDSCAPE ARCHITECTURE CO., D.P.C.

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Troy, New York 12180
Phone: (518) 273-0055

North Country Office:
375 Bay Road
Queensbury, New York 12804
Phone: (518) 812-0513

BEDFORD KATONAH WELLFIELD

SITE LAYOUT

BEDFORD HILLS, NY 10507

designed	checked
CJB	
date	scale
2/13/15	1" = 30'
project no.	
41433.00	
sheet no.	
FIG 2	

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID:	KMW-MW-4R	Sample Time:	10:45	Sample Matrix *(circle)*:	
Well ID:	MW-4R	Sample Date:	12-16-19	**Groundwater**	Soil
Project Name:	Katonah Municipal WCM	Sample Tech(s):	WGD	Surface Water	Air
Sample Location:	Katonah, NY	Project and Task #:	41433.00	Drinking Water	Other:
		Project Manager:	KM		

WELL INFORMATION:

Well Condition: Good - HDPE tubing installed last month.

Lock Type: _____ Key #: _____

PURGE DATA:

Measuring Point: TOPVC
Depth to Bottom: 101.50
Depth to Water: 13.94
Water Column Height: *(A)* _____
(depth to bottom - depth to water)

# of Volumes to be Purged: *(C)* _____

Gal. to be Purged: *(AxBxC)* _____

(B)

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	~~0.092~~
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: Low Flow - Mini-Monsoon
Start Date: _____
Start Time: _____
Stop Time: _____
Purge Rate (gpm): _____
Elapsed Time (min): _____
Well Vol. Purged (#): _____
Purge Vol. (gal): ~5
Well went dry? (No) Yes
Conditions: (No Odor) Odor
(Clear) Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged (gal)	Date & Time	Depth to Water (ft)	Temp (deg C)	SpCond (uS/cm)	Cond. (uS/cm)	TURB. VISUAL	TDS (g/L)		DO (mg/L)	pH	ORP (mV)	Odor
	10:22	13.94	10.6	1,636	—	Clear	1.0725	—	6.07	7.51	216.3	None
	10:27	13.94	10.4	1,663	—	Clear	1.0790	—	3.75	7.45	214.4	None
	10:32	13.94	10.2	1,656	—	Clear	1.0920	—	3.55	7.43	222.3	None
	10:37	13.94	10.5	1,668	—	Clear	1.0855	—	3.21	7.41	225.0	None
	10:42	13.94	10.6	1,662	—	Clear	1.0792	—	3.05	7.40	230.9	None
	10:45	13.94	10.7	1,645	—	Clear	1.0725	—	2.99	7.38	236.6	None

SAMPLE INFORMATION:

Sample Method: Submersible *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Weather: Overcast
Sample Depth(ft): ~90'
Barometric Pres.: _____
Air Temp.(°F): 30s
Wind: Calm
Notes: _____

LAB REQUESTS:

Laboratory Name: ~~Con-Test Laboratory~~ York
Analysis/Method: PFAS, 1,4-Dioxane VOC
Turn Around Time: Norm

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank MS/MSD

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KMW-MW-11R
Well ID: MW-11R
Project Name: Katonah Municipal Well
Sample Location: Katonah, NY

Sample Time: 12:47
Sample Date: 12-16-19
Sample Tech(s): WGD
Project and Task #: 414.33.005
Project Manager: KM

Sample Matrix *(circle)*: **Groundwater** Surface Water Drinking Water Soil Air Other:

WELL INFORMATION:

Well Condition: GOOD - HDPE tubing installed last month
Lock Type:
Key #:

PURGE DATA:

Measuring Point: TOPVC
Depth to Bottom: 65.55
Depth to Water: 20.47
Water Column Height: *(A)*
(depth to bottom - depth to water)
# of Volumes to be Purged: *(C)*
Gal. to be Purged: *(AxBxC)*

Pipe Width	Gal/Foot *(B)*
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: Low-Flow - Mini-Monsoon
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm):
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal): ~4
Well went dry? No Yes
Conditions: No Odor Clear Odor Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond uS/cm	Cond. uS/cm	Turb.	TDS g/L		DO mg/L	pH	ORP mV	Odor
	12:27	20.47	9.4	1,114	—	Clear	0.7215	-	8.09	7.70	251.0	None
	12:32	20.47	11.2	1,113	—	Clear	0.7215	-	6.65	7.71	256.4	None
	12:37	20.47	11.3	1,114	—	Clear	0.7215	-	6.23	7.65	262.4	None
	12:42	20.47	11.4	1,114	—	Clear	0.7215	-	6.33	7.63	264.9	None
	12:47	20.47	11.3	1,115	—	Clear	0.7200	-	6.28	7.61	267.1	None

SAMPLE INFORMATION:

Sample Method: *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Weather: Overcast
Notes:
Sample Depth(ft):
Barometric Pres.:
Air Temp.(°F): 30s
Wind: Calm

LAB REQUESTS:

Laboratory Name: ~~Con-Test Laboratory~~ York
Analysis/Method: PFAS, 1,4-Dioxane VOCs
Turn Around Time: Normal

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

KMW-EB (PFAS, 1,4-Dioxane only)
13:00

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KMW-MW-25
Well ID: MW-25
Project Name: Katonah Municipal Well
Sample Location: Katonah, NY

Sample Time: 13:54
Sample Date: 12-16-19
Sample Tech(s): WO
Project and Task #: 41433.00
Project Manager: KM

Sample Matrix *(circle)*: **Groundwater** Surface Water Drinking Water Soil Air Other:

WELL INFORMATION:

Well Condition: GOOD
Lock Type:
Key #:

PURGE DATA:

Measuring Point: T.O.PVC
Depth to Bottom: 114.80
Depth to Water: 27.67
Water Column Height: *(A)*
(depth to bottom - depth to water)
# of Volumes to be Purged: *(C)*
Gal. to be Purged: *(AxBxC)*

Pipe Width	Gal/Foot *(B)*
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: LOW-FLOW - Min.-Monsoon
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm):
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal): ≈ 6
Well went dry? (No) Yes
Conditions: (No Odor) Odor
(Clear) Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged gal	Date & Time	Depth to Water ft	Temp deg C	SpCond uS/cm[c]	Cond. uS/cm	TURB. NTU	TDS g/L		DO mg/L	pH	ORP mV	Odor
	13:29	27.67	9.8	381.0	—	Clear	0.2626	—	6.68	8.07	-192.8	Sulfur
	13:34	29.39	10.5	566.0	—	Slight	0.3673	—	4.25	8.10	3.4	Sulfur
	13:39	28.73	10.2	561.7	—	Clear	0.3646	—	3.56	8.04	-140.4	Sulfur
	13:44	28.71	10.3	556.5	—	Clear	0.3614	—	3.32	7.99	-171.3	Sulfur
	13:49	28.90	10.4	556.1	—	Clear	0.3614	—	3.17	7.97	-185.6	Sulfur
	13:54	28.76	10.4	556.3	—	Clear	0.3614	—	3.11	7.97	-189.9	Sulfur

SAMPLE INFORMATION:

Sample Method: *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Sample Depth(ft):
Weather: Overcast
Barometric Pres.:
Wind: Calm
Air Temp.(°F): 30s
Notes: BRIDGE WATER LEVEL = 33.78'

LAB REQUESTS:

Laboratory Name: ~~Con-Test Laboratory~~ YORK
Analysis/Method: VOCs
Turn Around Time: Norm.

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KMW-MW-15
Well ID: MW-15
Project Name: Katonah Municipal Well
Sample Location: Katonah, NY

Sample Time: 14:57
Sample Date: 12-16-19
Sample Tech(s): WO
Project and Task #: 41433.00
Project Manager: KM

Sample Matrix *(circle)*: **Groundwater** Surface Water Drinking Water Soil Air Other:

WELL INFORMATION:

Well Condition: FAIR - Flush mount bolts sheared upon opening. Need replacement.
Lock Type:
Key #:

PURGE DATA:

Measuring Point: T.O. PVC
Depth to Bottom: 56.50
Depth to Water: 11.39
Water Column Height: *(A)*
(depth to bottom - depth to water)
# of Volumes to be Purged: *(C)*
Gal. to be Purged: *(AxBxC)*

Pipe Width	(B) Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: LOW-FLOW - MINI MONSOON
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm):
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal): ~5
Well went dry? No Yes
Conditions: No Odor Odor
Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged (gal)	Date & Time	Depth to Water (ft)	Temp (deg C)	SpCond (uS/cm^c)	Cond. (uS/cm)	TURB. (visual)	TDS (g/L)		DO (mg/L)	pH	ORP (mV)	Odor
	14:32	11.39	10.3	1,097	—	Clear	0.7135	-	6.52	7.23	-22.9	None
	14:37	11.40	11.0	1,310	—	Rusty	0.8515	-	4.12	7.77	1.2	None
	14:42	11.40	11.1	1,312	—	Rusty	0.8515	—	3.44	7.74	10.9	None
	14:47	11.40	11.1	1,310	—	Rusty	0.8450	—	3.10	7.73	15.4	None
	14:52	11.40	11.1	1,315	—	Rusty	0.8515	—	2.96	7.67	20.7	None
	14:57	11.40	11.1	1,311	—	Rusty	0.8515	—	2.86	7.66	25.2	None

SAMPLE INFORMATION:

Sample Method: *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Sample Depth(ft):
Weather: Overcast
Barometric Pres.:
Wind: Calm
Air Temp.(°F): 30s
Notes:

LAB REQUESTS:

Laboratory Name: ~~Con Test Laboratory~~ York
Analysis/Method: VOCs
Turn Around Time: Norm.

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

KMW-EB (VOCs only)
15:30

The Chazen Companies

FIELD DATA SHEET

SAMPLE INFORMATION:

Sample ID: KMW-PW
Well ID: KMW
Project Name: Katonah Municipal Well
Sample Location: Katonah, NY

Sample Time: 15:13
Sample Date: 12-16-19
Sample Tech(s): WS
Project and Task #: 41433.00
Project Manager: KM

Sample Matrix *(circle)*: **Groundwater** Surface Water Drinking Water Soil Air Other:

WELL INFORMATION:

Well Condition:

Lock Type: Key #:

PURGE DATA:

Measuring Point: (B)
Depth to Bottom:
Depth to Water:
Water Column Height: *(A)*
(depth to bottom - depth to water)

# of Volumes to be Purged: *(C)*

Gal. to be Purged: *(AxBxC)*

Pipe Width	Gal/Foot
1.0"	0.041
1.5"	0.092
2.0"	0.163
2.5"	0.255
3.0"	0.367
4.0"	0.653
6.0"	1.469
8.0"	2.611

Purge Method: Turbine Pump
Start Date:
Start Time:
Stop Time:
Purge Rate (gpm): ~300
Elapsed Time (min):
Well Vol. Purged (#):
Purge Vol. (gal):
Well went dry? No Yes
Conditions: No Odor Odor
Clear Slightly-Turbid Turbid

FIELD RESULTS:

Gal purged (gal)	Date & Time	Depth to Water (ft)	Temp (deg C)	SpCond (uS/cm)	Cond. (uS/cm)	TURB.	TDS (g/L)		DO (mg/L)	pH	ORP (mV)	Odor
	15:13	—	7.7	1,533	—	clear	0.944	—	10.45	7.59	109.4	None

SAMPLE INFORMATION:

Sample Method: Port (pre-stripper) *(Peristaltic, Submersible, Dedicated or Disp. Bailer, Waterra, Dir. Instrument Reading, etc.)*
Sample Type: **Grab** Composite
Weather: Overcast
Sample Depth(ft):
Barometric Pres.:
Air Temp.(°F): 30s
Wind: Calm

Notes: RAN well for 5 min before collecting sample

LAB REQUESTS:

Laboratory Name: Con-Test Laboratory YORK
Analysis/Method: VOCs
Turn Around Time: Norm.

QA/QC: Duplicate Equip. Blank Field Blank Trip Blank

Summary of VOC Detections

Katonah Municipal Well SSI

December 2019 Groundwater Sampling Event

Sample ID **Laboratory ID** **Sampling Date** **Sample Matrix**	**Groundwater Standard**	**KWF-MW2S** **17I0914-01** **12/16/2019** **Water**		**KWF-MW11R** **17I0914-02** **12/16/2019** **Water**		**KWF-MW1S** **17I0914-03** **12/16/2019** **Water**		**KWF-MW4R** **17I0914-04** **12/16/2019** **Water**		**KWF-PW** **17I0914-05** **12/16/2019** **Water**	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - TCL/SOM	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L	
Tetrachloroethylene	5	0.200	U	1.07		0.400	J	3.59		2.37	
Trichloroethylene	5	0.200	U	0.200	U	0.470	J	0.200	U	0.230	J

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U - compound was not reported above the minimum laboratory limit of detection.

Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Report Date: 12/24/2019
Client Project ID: 41433.00 TASK 0600 Katonah Municipal Well
York Project (SDG) No.: 19L0677

Report Date: 12/24/2019
Client Project ID: 41433.00 TASK 0600 Katonah Municipal Well
York Project (SDG) No.: 19L0677

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 17, 2019 and listed below. The project was identified as your project: **41433.00 TASK 0600 Katonah Municipal Well**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

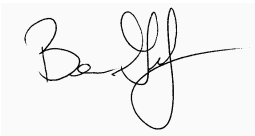
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19L0677-01	KMW-MW-4R	Water	12/16/2019	12/17/2019
19L0677-02	KMW-MW-11R	Water	12/16/2019	12/17/2019
19L0677-03	KMW-MW-2S	Water	12/16/2019	12/17/2019
19L0677-04	KMW-MW-1S	Water	12/16/2019	12/17/2019
19L0677-05	KMW-PW	Water	12/16/2019	12/17/2019
19L0677-06	KMW-FD	Water	12/16/2019	12/17/2019
19L0677-07	KMW-EB	Water	12/16/2019	12/17/2019
19L0677-08	KMW-TB	Water	12/16/2019	12/17/2019

General Notes for York Project (SDG) No.: 19L0677

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 12/24/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: KMW-MW-4R

York Sample ID: 19L0677-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 10:45 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: KMW-MW-4R

York Sample ID: 19L0677-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 10:45 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**3.59**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 20:32	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: KMW-MW-4R **York Sample ID:** 19L0677-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 10:45 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 20:32	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 20:32	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 20:32	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 20:32	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 20:32	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 20:32	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/22/2019 20:32	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*	*79-122*

Sample Information

Client Sample ID: KMW-MW-11R **York Sample ID:** 19L0677-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:47 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS

Sample Information

Client Sample ID: KMW-MW-11R

York Sample ID: 19L0677-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:47 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:01	SS

Sample Information

Client Sample ID: KMW-MW-11R **York Sample ID:** 19L0677-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:47 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**1.07**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:01	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: KMW-MW-11R **York Sample ID:** 19L0677-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:47 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*92.9 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*			*79-122*						

Sample Information

Client Sample ID: KMW-MW-2S **York Sample ID:** 19L0677-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 1:54 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS

Sample Information

Client Sample ID: KMW-MW-2S

York Sample ID: 19L0677-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 1:54 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 21:31 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: KMW-MW-2S **York Sample ID:** 19L0677-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 1:54 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/22/2019 21:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/22/2019 21:31	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 21:31	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/22/2019 21:31	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*94.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

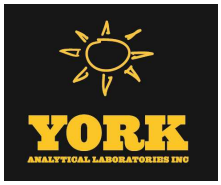
Client Sample ID: KMW-MW-1S **York Sample ID:** 19L0677-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 2:57 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: **KMW-MW-1S** **York Sample ID:** **19L0677-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 2:57 pm	12/17/2019

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: KMW-MW-1S

York Sample ID: 19L0677-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 2:57 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	**Tetrachloroethylene**	**0.400**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: KMW-MW-1S **York Sample ID:** 19L0677-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 2:57 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:00	SS
79-01-6	**Trichloroethylene**	**0.470**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:00	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:00	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/22/2019 22:00	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.1 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Sample Information

Client Sample ID: KMW-PW **York Sample ID:** 19L0677-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:13 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS

Sample Information

Client Sample ID: KMW-PW

York Sample ID: 19L0677-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:13 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 22:30	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: **KMW-PW** **York Sample ID:** **19L0677-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:13 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/22/2019 22:30	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/22/2019 22:30	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
127-18-4	**Tetrachloroethylene**	**2.37**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
79-01-6	**Trichloroethylene**	**0.230**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 22:30	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/22/2019 22:30	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.8 %*	*81-117*

Sample Information

Client Sample ID: KMW-PW **York Sample ID:** 19L0677-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:13 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*			*79-122*						

Sample Information

Client Sample ID: KMW-FD **York Sample ID:** 19L0677-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS

Sample Information

Client Sample ID: KMW-FD

York Sample ID: 19L0677-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: KMW-FD **York Sample ID:** 19L0677-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
127-18-4	**Tetrachloroethylene**	**3.59**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:00 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*89.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Sample Information

Client Sample ID: KMW-EB **York Sample ID:** 19L0677-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:30 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: KMW-EB

York Sample ID: 19L0677-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:30 pm	12/17/2019

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: KMW-EB

York Sample ID: 19L0677-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:30 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:29	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: KMW-EB **York Sample ID:** 19L0677-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:30 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:29	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:29	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:29	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:29	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/22/2019 23:29	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.3 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*79-122*

Sample Information

Client Sample ID: KMW-TB **York Sample ID:** 19L0677-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS

Sample Information

Client Sample ID: KMW-TB

York Sample ID: 19L0677-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30	12/22/2019 23:59	SS CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: **KMW-TB** **York Sample ID:** **19L0677-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
79-20-9	**Methyl acetate**	**0.320**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/22/2019 23:59	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	12/22/2019 23:59	SS
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/22/2019 23:59	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	12/22/2019 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	12/22/2019 23:59	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.5 %*	*81-117*

Sample Information

Client Sample ID: KMW-TB

York Sample ID: 19L0677-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*			*79-122*						

Analytical Batch Summary

Batch ID: BL91221 **Preparation Method:** EPA 5030B **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
19L0677-01	KMW-MW-4R	12/22/19
19L0677-02	KMW-MW-11R	12/22/19
19L0677-03	KMW-MW-2S	12/22/19
19L0677-04	KMW-MW-1S	12/22/19
19L0677-05	KMW-PW	12/22/19
19L0677-06	KMW-FD	12/22/19
19L0677-07	KMW-EB	12/22/19
19L0677-08	KMW-TB	12/22/19
BL91221-BLK1	Blank	12/22/19
BL91221-BS1	LCS	12/22/19
BL91221-BS2	LCS	12/22/19
BL91221-BSD1	LCS Dup	12/22/19
BL91221-MS1	Matrix Spike	12/22/19
BL91221-MSD1	Matrix Spike Dup	12/22/19

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Blank (BL91221-BLK1)											Prepared & Analyzed: 12/22/2019
1,1,1-Trichloroethane	ND	0.500	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
Styrene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Blank (BL91221-BLK1)								Prepared & Analyzed: 12/22/2019			
Trichlorofluoromethane	ND	0.500	ug/L								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.27*		*"*	*10.0*		*92.7*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.4*		*"*	*10.0*		*104*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.2*		*"*	*10.0*		*112*	*79-122*				
LCS (BL91221-BS1)								Prepared & Analyzed: 12/22/2019			
1,1,1-Trichloroethane	12.0		ug/L	10.0		120	78-136				
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8		"	10.0		118	54-165				
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123				
1,1-Dichloroethane	10.8		"	10.0		108	82-129				
1,1-Dichloroethylene	11.8		"	10.0		118	68-138				
1,2,3-Trichlorobenzene	8.87		"	10.0		88.7	76-136				
1,2,4-Trichlorobenzene	9.17		"	10.0		91.7	76-137				
1,2-Dibromo-3-chloropropane	9.96		"	10.0		99.6	45-147				
1,2-Dibromoethane	10.1		"	10.0		101	83-124				
1,2-Dichlorobenzene	9.96		"	10.0		99.6	79-123				
1,2-Dichloroethane	11.2		"	10.0		112	73-132				
1,2-Dichloropropane	10.2		"	10.0		102	78-126				
1,3-Dichlorobenzene	10.0		"	10.0		100	86-122				
1,4-Dichlorobenzene	10.1		"	10.0		101	85-124				
2-Butanone	11.8		"	10.0		118	49-152				
2-Hexanone	11.3		"	10.0		113	51-146				
4-Methyl-2-pentanone	12.0		"	10.0		120	57-145				
Acetone	9.54		"	10.0		95.4	14-150				
Benzene	11.4		"	10.0		114	85-126				
Bromochloromethane	10.8		"	10.0		108	77-128				
Bromodichloromethane	10.6		"	10.0		106	79-128				
Bromoform	10.1		"	10.0		101	78-133				
Bromomethane	15.1		"	10.0		151	43-168				
Carbon disulfide	12.0		"	10.0		120	68-146				
Carbon tetrachloride	11.3		"	10.0		113	77-141				
Chlorobenzene	10.4		"	10.0		104	88-120				
Chloroethane	12.7		"	10.0		127	65-136				
Chloroform	10.9		"	10.0		109	82-128				
Chloromethane	15.5		"	10.0		155	43-155				
cis-1,2-Dichloroethylene	11.2		"	10.0		112	83-129				
cis-1,3-Dichloropropylene	11.3		"	10.0		113	80-131				
Cyclohexane	11.9		"	10.0		119	63-149				
Dibromochloromethane	11.4		"	10.0		114	80-130				
Dichlorodifluoromethane	21.9		"	10.0		219	44-144	High Bias			
Ethyl Benzene	10.8		"	10.0		108	80-131				
Isopropylbenzene	10.3		"	10.0		103	76-140				
Methyl acetate	11.0		"	10.0		110	51-139				
Methyl tert-butyl ether (MTBE)	11.4		"	10.0		114	76-135				
Methylcyclohexane	11.3		"	10.0		113	72-143				
Methylene chloride	11.6		"	10.0		116	55-137				
o-Xylene	11.0		"	10.0		110	78-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
LCS (BL91221-BS1)								Prepared & Analyzed: 12/22/2019			
p- & m- Xylenes	21.6		ug/L	20.0		108	77-133				
Styrene	10.9		"	10.0		109	67-132				
Tetrachloroethylene	9.05		"	10.0		90.5	82-131				
Toluene	11.0		"	10.0		110	80-127				
trans-1,2-Dichloroethylene	12.1		"	10.0		121	80-132				
trans-1,3-Dichloropropylene	11.1		"	10.0		111	78-131				
Trichloroethylene	10.4		"	10.0		104	82-128				
Trichlorofluoromethane	12.2		"	10.0		122	67-139				
Vinyl Chloride	13.1		"	10.0		131	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BL91221-BS2)								Prepared & Analyzed: 12/22/2019			
1,1,1-Trichloroethane	10.9		ug/L	10.0		109	78-136				
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165				
1,1,2-Trichloroethane	9.51		"	10.0		95.1	82-123				
1,1-Dichloroethane	10.1		"	10.0		101	82-129				
1,1-Dichloroethylene	10.8		"	10.0		108	68-138				
1,2,3-Trichlorobenzene	9.09		"	10.0		90.9	76-136				
1,2,4-Trichlorobenzene	9.36		"	10.0		93.6	76-137				
1,2-Dibromo-3-chloropropane	9.30		"	10.0		93.0	45-147				
1,2-Dibromoethane	9.70		"	10.0		97.0	83-124				
1,2-Dichlorobenzene	9.98		"	10.0		99.8	79-123				
1,2-Dichloroethane	10.3		"	10.0		103	73-132				
1,2-Dichloropropane	9.90		"	10.0		99.0	78-126				
1,3-Dichlorobenzene	9.96		"	10.0		99.6	86-122				
1,4-Dichlorobenzene	9.94		"	10.0		99.4	85-124				
2-Butanone	7.91		"	10.0		79.1	49-152				
2-Hexanone	10.3		"	10.0		103	51-146				
4-Methyl-2-pentanone	11.1		"	10.0		111	57-145				
Acetone	8.10		"	10.0		81.0	14-150				
Benzene	10.5		"	10.0		105	85-126				
Bromochloromethane	9.55		"	10.0		95.5	77-128				
Bromodichloromethane	10.3		"	10.0		103	79-128				
Bromoform	9.42		"	10.0		94.2	78-133				
Bromomethane	16.2		"	10.0		162	43-168				
Carbon disulfide	10.9		"	10.0		109	68-146				
Carbon tetrachloride	10.3		"	10.0		103	77-141				
Chlorobenzene	9.90		"	10.0		99.0	88-120				
Chloroethane	12.2		"	10.0		122	65-136				
Chloroform	9.94		"	10.0		99.4	82-128				
Chloromethane	14.1		"	10.0		141	43-155				
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	10.6		"	10.0		106	80-131				
Cyclohexane	11.0		"	10.0		110	63-149				
Dibromochloromethane	11.0		"	10.0		110	80-130				
Dichlorodifluoromethane	20.0		"	10.0		200	44-144	High Bias			
Ethyl Benzene	10.4		"	10.0		104	80-131				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
LCS (BL91221-BS2)							Prepared & Analyzed: 12/22/2019				
Isopropylbenzene	10.2		ug/L	10.0		102	76-140				
Methyl acetate	14.2		"	10.0		142	51-139	High Bias			
Methyl tert-butyl ether (MTBE)	10.5		"	10.0		105	76-135				
Methylcyclohexane	10.9		"	10.0		109	72-143				
Methylene chloride	10.7		"	10.0		107	55-137				
o-Xylene	10.5		"	10.0		105	78-130				
p- & m- Xylenes	20.7		"	20.0		103	77-133				
Styrene	10.5		"	10.0		105	67-132				
Tetrachloroethylene	8.56		"	10.0		85.6	82-131				
Toluene	10.6		"	10.0		106	80-127				
trans-1,2-Dichloroethylene	11.0		"	10.0		110	80-132				
trans-1,3-Dichloropropylene	10.7		"	10.0		107	78-131				
Trichloroethylene	10.3		"	10.0		103	82-128				
Trichlorofluoromethane	11.3		"	10.0		113	67-139				
Vinyl Chloride	11.8		"	10.0		118	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.61*		*"*	*10.0*		*96.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.73*		*"*	*10.0*		*97.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*79-122*				
LCS Dup (BL91221-BSD1)							Prepared & Analyzed: 12/22/2019				
1,1,1-Trichloroethane	10.7		ug/L	10.0		107	78-136		10.9	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129		1.27	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7		"	10.0		107	54-165		9.49	30	
1,1,2-Trichloroethane	9.45		"	10.0		94.5	82-123		7.63	30	
1,1-Dichloroethane	10.6		"	10.0		106	82-129		2.24	30	
1,1-Dichloroethylene	10.7		"	10.0		107	68-138		10.2	30	
1,2,3-Trichlorobenzene	8.80		"	10.0		88.0	76-136		0.792	30	
1,2,4-Trichlorobenzene	9.09		"	10.0		90.9	76-137		0.876	30	
1,2-Dibromo-3-chloropropane	9.37		"	10.0		93.7	45-147		6.10	30	
1,2-Dibromoethane	9.65		"	10.0		96.5	83-124		4.85	30	
1,2-Dichlorobenzene	9.87		"	10.0		98.7	79-123		0.908	30	
1,2-Dichloroethane	0.590		"	10.0		5.90	73-132	Low Bias	180	30	Non-dir.
1,2-Dichloropropane	9.69		"	10.0		96.9	78-126		5.32	30	
1,3-Dichlorobenzene	9.78		"	10.0		97.8	86-122		2.42	30	
1,4-Dichlorobenzene	10.1		"	10.0		101	85-124		0.396	30	
2-Butanone	11.6		"	10.0		116	49-152		1.62	30	
2-Hexanone	11.0		"	10.0		110	51-146		2.88	30	
4-Methyl-2-pentanone	10.8		"	10.0		108	57-145		10.2	30	
Acetone	8.29		"	10.0		82.9	14-150		14.0	30	
Benzene	10.3		"	10.0		103	85-126		9.87	30	
Bromochloromethane	10.4		"	10.0		104	77-128		3.68	30	
Bromodichloromethane	9.97		"	10.0		99.7	79-128		5.84	30	
Bromoform	9.37		"	10.0		93.7	78-133		7.70	30	
Bromomethane	16.5		"	10.0		165	43-168		9.24	30	
Carbon disulfide	11.5		"	10.0		115	68-146		4.24	30	
Carbon tetrachloride	10.7		"	10.0		107	77-141		5.43	30	
Chlorobenzene	10.4		"	10.0		104	88-120		0.0957	30	
Chloroethane	12.3		"	10.0		123	65-136		3.13	30	
Chloroform	10.7		"	10.0		107	82-128		1.58	30	
Chloromethane	14.0		"	10.0		140	43-155		10.5	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
LCS Dup (BL91221-BSD1)								Prepared & Analyzed: 12/22/2019			
cis-1,2-Dichloroethylene	11.1		ug/L	10.0		111	83-129		1.61	30	
cis-1,3-Dichloropropylene	10.5		"	10.0		105	80-131		7.71	30	
Cyclohexane	11.4		"	10.0		114	63-149		4.12	30	
Dibromochloromethane	10.4		"	10.0		104	80-130		9.63	30	
Dichlorodifluoromethane	21.3		"	10.0		213	44-144	High Bias	2.54	30	
Ethyl Benzene	10.2		"	10.0		102	80-131		5.23	30	
Isopropylbenzene	10.0		"	10.0		100	76-140		2.86	30	
Methyl acetate	9.57		"	10.0		95.7	51-139		13.6	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		1.15	30	
Methylcyclohexane	10.7		"	10.0		107	72-143		6.09	30	
Methylene chloride	11.2		"	10.0		112	55-137		3.16	30	
o-Xylene	10.9		"	10.0		109	78-130		1.55	30	
p- & m- Xylenes	20.4		"	20.0		102	77-133		5.77	30	
Styrene	10.4		"	10.0		104	67-132		5.07	30	
Tetrachloroethylene	9.09		"	10.0		90.9	82-131		0.441	30	
Toluene	10.3		"	10.0		103	80-127		6.49	30	
trans-1,2-Dichloroethylene	11.0		"	10.0		110	80-132		9.68	30	
trans-1,3-Dichloropropylene	11.1		"	10.0		111	78-131		0.0902	30	
Trichloroethylene	10.7		"	10.0		107	82-128		1.99	30	
Trichlorofluoromethane	11.3		"	10.0		113	67-139		7.15	30	
Vinyl Chloride	12.3		"	10.0		123	58-145		6.38	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.83*		*"*	*10.0*		*98.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.8*		*"*	*10.0*		*108*	*79-122*				
Matrix Spike (BL91221-MS1)	*Source sample: 19L0677-01 (KMW-MW-4R)							Prepared: 12/22/2019 Analyzed: 12/23/2019			
1,1,1-Trichloroethane	12.5		ug/L	10.0	0.00	125	70-146				
1,1,2,2-Tetrachloroethane	9.79		"	10.0	0.00	97.9	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4		"	10.0	0.00	124	21-217				
1,1,2-Trichloroethane	10.4		"	10.0	0.00	104	59-146				
1,1-Dichloroethane	11.1		"	10.0	0.00	111	54-146				
1,1-Dichloroethylene	12.1		"	10.0	0.00	121	44-165				
1,2,3-Trichlorobenzene	8.03		"	10.0	0.00	80.3	40-161				
1,2,4-Trichlorobenzene	8.95		"	10.0	0.00	89.5	41-161				
1,2-Dibromo-3-chloropropane	9.18		"	10.0	0.00	91.8	31-151				
1,2-Dibromoethane	10.8		"	10.0	0.00	108	75-125				
1,2-Dichlorobenzene	10.5		"	10.0	0.00	105	63-122				
1,2-Dichloroethane	11.1		"	10.0	0.00	111	68-131				
1,2-Dichloropropane	10.2		"	10.0	0.00	102	77-121				
1,3-Dichlorobenzene	10.4		"	10.0	0.00	104	74-119				
1,4-Dichlorobenzene	10.3		"	10.0	0.00	103	70-124				
2-Butanone	11.2		"	10.0	0.00	112	10-193				
2-Hexanone	10.8		"	10.0	0.00	108	53-133				
4-Methyl-2-pentanone	11.6		"	10.0	0.00	116	38-150				
Acetone	9.46		"	10.0	0.00	94.6	13-149				
Benzene	11.6		"	10.0	0.00	116	38-155				
Bromochloromethane	10.8		"	10.0	0.00	108	75-121				
Bromodichloromethane	10.8		"	10.0	0.00	108	70-129				
Bromoform	9.92		"	10.0	0.00	99.2	66-136				
Bromomethane	12.4		"	10.0	0.00	124	30-158				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Matrix Spike (BL91221-MS1)	*Source sample: 19L0677-01 (KMW-MW-4R)							Prepared: 12/22/2019 Analyzed: 12/23/2019			
Carbon disulfide	12.3		ug/L	10.0	0.00	123	10-138				
Carbon tetrachloride	12.3		"	10.0	0.00	123	71-146				
Chlorobenzene	10.6		"	10.0	0.00	106	81-117				
Chloroethane	14.4		"	10.0	0.00	144	51-145				
Chloroform	11.4		"	10.0	0.00	114	80-124				
Chloromethane	14.6		"	10.0	0.00	146	16-163				
cis-1,2-Dichloroethylene	11.3		"	10.0	0.00	113	76-125				
cis-1,3-Dichloropropylene	11.0		"	10.0	0.00	110	58-131				
Cyclohexane	12.6		"	10.0	0.00	126	70-130				
Dibromochloromethane	11.7		"	10.0	0.00	117	71-129				
Dichlorodifluoromethane	16.2		"	10.0	0.00	162	30-147	High Bias			
Ethyl Benzene	11.3		"	10.0	0.00	113	72-128				
Isopropylbenzene	10.6		"	10.0	0.00	106	66-139				
Methyl acetate	9.71		"	10.0	0.00	97.1	10-200				
Methyl tert-butyl ether (MTBE)	11.1		"	10.0	0.00	111	75-128				
Methylcyclohexane	11.9		"	10.0	0.00	119	70-130				
Methylene chloride	12.0		"	10.0	0.00	120	57-128				
o-Xylene	11.1		"	10.0	0.00	111	69-126				
p- & m- Xylenes	22.6		"	20.0	0.460	111	67-130				
Styrene	11.6		"	10.0	0.00	116	69-125				
Tetrachloroethylene	13.4		"	10.0	3.59	98.5	64-139				
Toluene	11.1		"	10.0	0.00	111	76-123				
trans-1,2-Dichloroethylene	12.4		"	10.0	0.00	124	79-131				
trans-1,3-Dichloropropylene	10.9		"	10.0	0.00	109	55-130				
Trichloroethylene	11.4		"	10.0	0.00	114	53-145				
Trichlorofluoromethane	13.6		"	10.0	0.00	136	61-142				
Vinyl Chloride	12.6		"	10.0	0.00	126	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.80*		*"*	*10.0*		*98.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.84*		*"*	*10.0*		*98.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.51*		*"*	*10.0*		*95.1*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Matrix Spike Dup (BL91221-MSD1)	*Source sample: 19L0677-01 (KMW-MW-4R)								Prepared: 12/22/2019 Analyzed: 12/23/2019		
1,1,1-Trichloroethane	12.8		ug/L	10.0	0.00	128	70-146		2.22	30	
1,1,2,2-Tetrachloroethane	11.1		"	10.0	0.00	111	74-121		12.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4		"	10.0	0.00	124	21-217		0.0807	30	
1,1,2-Trichloroethane	11.3		"	10.0	0.00	113	59-146		8.32	30	
1,1-Dichloroethane	11.3		"	10.0	0.00	113	54-146		1.70	30	
1,1-Dichloroethylene	12.3		"	10.0	0.00	123	44-165		2.05	30	
1,2,3-Trichlorobenzene	8.97		"	10.0	0.00	89.7	40-161		11.1	30	
1,2,4-Trichlorobenzene	9.69		"	10.0	0.00	96.9	41-161		7.94	30	
1,2-Dibromo-3-chloropropane	10.2		"	10.0	0.00	102	31-151		10.2	30	
1,2-Dibromoethane	11.6		"	10.0	0.00	116	75-125		7.43	30	
1,2-Dichlorobenzene	11.1		"	10.0	0.00	111	63-122		5.00	30	
1,2-Dichloroethane	11.4		"	10.0	0.00	114	68-131		2.50	30	
1,2-Dichloropropane	11.2		"	10.0	0.00	112	77-121		9.16	30	
1,3-Dichlorobenzene	11.1		"	10.0	0.00	111	74-119		6.41	30	
1,4-Dichlorobenzene	10.7		"	10.0	0.00	107	70-124		4.00	30	
2-Butanone	11.9		"	10.0	0.00	119	10-193		5.95	30	
2-Hexanone	12.4		"	10.0	0.00	124	53-133		14.3	30	
4-Methyl-2-pentanone	12.1		"	10.0	0.00	121	38-150		4.04	30	
Acetone	9.68		"	10.0	0.00	96.8	13-149		2.30	30	
Benzene	11.9		"	10.0	0.00	119	38-155		2.29	30	
Bromochloromethane	11.1		"	10.0	0.00	111	75-121		3.02	30	
Bromodichloromethane	11.6		"	10.0	0.00	116	70-129		7.22	30	
Bromoform	10.9		"	10.0	0.00	109	66-136		9.60	30	
Bromomethane	14.6		"	10.0	0.00	146	30-158		16.0	30	
Carbon disulfide	12.5		"	10.0	0.00	125	10-138		1.61	30	
Carbon tetrachloride	12.4		"	10.0	0.00	124	71-146		0.893	30	
Chlorobenzene	11.3		"	10.0	0.00	113	81-117		6.12	30	
Chloroethane	13.7		"	10.0	0.00	137	51-145		4.99	30	
Chloroform	11.7		"	10.0	0.00	117	80-124		2.68	30	
Chloromethane	14.3		"	10.0	0.00	143	16-163		2.42	30	
cis-1,2-Dichloroethylene	11.8		"	10.0	0.00	118	76-125		3.98	30	
cis-1,3-Dichloropropylene	11.9		"	10.0	0.00	119	58-131		8.29	30	
Cyclohexane	12.8		"	10.0	0.00	128	70-130		1.58	30	
Dibromochloromethane	12.8		"	10.0	0.00	128	71-129		9.06	30	
Dichlorodifluoromethane	17.3		"	10.0	0.00	173	30-147	High Bias	6.63	30	
Ethyl Benzene	12.0		"	10.0	0.00	120	72-128		6.19	30	
Isopropylbenzene	11.5		"	10.0	0.00	115	66-139		8.25	30	
Methyl acetate	9.83		"	10.0	0.00	98.3	10-200		1.23	30	
Methyl tert-butyl ether (MTBE)	11.6		"	10.0	0.00	116	75-128		4.48	30	
Methylcyclohexane	12.4		"	10.0	0.00	124	70-130		4.69	30	
Methylene chloride	12.3		"	10.0	0.00	123	57-128		2.39	30	
o-Xylene	12.0		"	10.0	0.00	120	69-126		7.72	30	
p- & m- Xylenes	23.6		"	20.0	0.460	116	67-130		3.94	30	
Styrene	12.2		"	10.0	0.00	122	69-125		4.71	30	
Tetrachloroethylene	14.0		"	10.0	3.59	104	64-139		4.01	30	
Toluene	12.0		"	10.0	0.00	120	76-123		7.27	30	
trans-1,2-Dichloroethylene	12.4		"	10.0	0.00	124	79-131		0.483	30	
trans-1,3-Dichloropropylene	11.6		"	10.0	0.00	116	55-130		5.97	30	
Trichloroethylene	11.8		"	10.0	0.00	118	53-145		3.87	30	
Trichlorofluoromethane	13.1		"	10.0	0.00	131	61-142		3.52	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Matrix Spike Dup (BL91221-MSD1)	*Source sample: 19L0677-01 (KMW-MW-4R)								Prepared: 12/22/2019 Analyzed: 12/23/2019		
Vinyl Chloride	12.8		ug/L	10.0	0.00	128	31-165		1.18	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.85*		"	*10.0*		*98.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		"	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		"	*10.0*		*101*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19L0677-01	KMW-MW-4R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-02	KMW-MW-11R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-03	KMW-MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-04	KMW-MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-05	KMW-PW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-06	KMW-FD	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-07	KMW-EB	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-08	KMW-TB	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 19L0677

YOUR Information	Report To:	Invoice To:
Company: The Chazen Companies	Company: Chazen	Company: Chazen
Address: 21 Fox Street Poughkeepsie, NY 12601	Address:	Address:
Phone.: 845-454-3980	Phone.:	Phone.:
Contact: Will Olsen	Contact: Will Olsen	Contact: accounts payable
E-mail: wolsen@chazencompanies.com	E-mail:	E-mail:

YOUR Project Number: 41433.00 TASK 0600

YOUR Project Name: KATONAH MUNICIPAL WELL

YOUR PO#: 6186

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

William G. Olsen

Samples Collected by: (print your name above and sign below)
William G. Olsen

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)

Summary Report
QA Report
NY ASP A Package
NY ASP B Package
CT RCP
CT RCP DQA/DUE
NJDEP Reduced Deliverables
NJDKQP
Standard Excel EDD
EQuIS (Standard)
NYSDEC EQuIS
NJDEP SRP HazSite
Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)
TOGS 1.1.1

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
KMW-MW-4R	GW	12-16-19 10:45	TCL VOCs (low-level)	3 x 40ml VOA
KMW-MW-11R	GW	12:47		
KMW-MW-2S	GW	13:54		
KMW-MW-1S	GW	14:57		
KMW-PW	GW	15:13		
KMW-MW-4R-MS/MSD	GW	10:45		6 x 40ml VOA
KMW-FD	GW	XX:XX		3 x 40ml VOA
KMW-EB	D.I.	15:30		
KMW-TB	D.I.			2 x 40ml VOA

Comments: Samples placed in secure Chazen refridgerator @ 16:45 on 12-16-19

Preservation: (check all that apply)
HCl X MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
WGO/CHAZEN	12-16-19 16:45	TOMA/York	12/17/19 1515	TOMA/York	12/17/19
ENHV/York	12-17-19 1728	VINNP/York	12-17-19 1935		
				Samples Received in LAB by	Date/Time
				Gal	12-17-19 1935

Temp. Received at Lab: 1.7 Degrees C

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Technical Report

prepared for:

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Report Date: 12/27/2019
Client Project ID: 41433.00 TASK 0600 Katonah Municipal Well
York Project (SDG) No.: 19L0677

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/27/2019
Client Project ID: 41433.00 TASK 0600 Katonah Municipal Well
York Project (SDG) No.: 19L0677

Chazen Environmental Services (Poughkeepsie)
21 Fox Street
Poughkeepsie NY, 12601
Attention: Will Olsen

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 17, 2019 and listed below. The project was identified as your project: **41433.00 TASK 0600 Katonah Municipal Well**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
19L0677-01	KMW-MW-4R	Water	12/16/2019	12/17/2019
19L0677-02	KMW-MW-11R	Water	12/16/2019	12/17/2019
19L0677-03	KMW-MW-2S	Water	12/16/2019	12/17/2019
19L0677-04	KMW-MW-1S	Water	12/16/2019	12/17/2019
19L0677-05	KMW-PW	Water	12/16/2019	12/17/2019
19L0677-06	KMW-FD	Water	12/16/2019	12/17/2019
19L0677-07	KMW-EB	Water	12/16/2019	12/17/2019
19L0677-08	KMW-TB	Water	12/16/2019	12/17/2019

General Notes for York Project (SDG) No.: 19L0677

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 12/27/2019

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: KMW-MW-4R

York Sample ID: 19L0677-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 10:45 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-MW-4R

York Sample ID: 19L0677-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 10:45 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**3.59**		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-MW-4R **York Sample ID:** 19L0677-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 10:45 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 20:32	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*	*79-122*

Sample Information

Client Sample ID: KMW-MW-11R **York Sample ID:** 19L0677-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:47 pm	12/17/2019

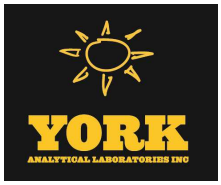
Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			



Sample Information

Client Sample ID: **KMW-MW-11R** **York Sample ID:** **19L0677-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:47 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-MW-11R

York Sample ID: 19L0677-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:47 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**1.07**		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:01	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*92.9 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*79-122*

Sample Information

Client Sample ID: KMW-MW-2S **York Sample ID:** 19L0677-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 1:54 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-MW-2S

York Sample ID: 19L0677-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 1:54 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-MW-2S **York Sample ID:** 19L0677-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 1:54 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 21:31	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*94.7 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: KMW-MW-1S **York Sample ID:** 19L0677-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 2:57 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-MW-1S **York Sample ID:** 19L0677-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 2:57 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: **KMW-MW-1S** **York Sample ID:** **19L0677-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 2:57 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**0.400**	J	ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-01-6	**Trichloroethylene**	**0.470**	J	ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.1 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Sample Information

Client Sample ID: KMW-PW

York Sample ID: 19L0677-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:13 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-PW

York Sample ID: 19L0677-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:13 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**2.37**		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-PW **York Sample ID:** 19L0677-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:13 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	**Trichloroethylene**	**0.230**	J	ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 22:30	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.8 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

Sample Information

Client Sample ID: KMW-FD **York Sample ID:** 19L0677-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-FD

York Sample ID: 19L0677-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-FD

York Sample ID: 19L0677-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	**Tetrachloroethylene**	**3.59**		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:00	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*89.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Sample Information

Client Sample ID: KMW-EB

York Sample ID: 19L0677-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:30 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-EB

York Sample ID: 19L0677-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:30 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-EB **York Sample ID:** 19L0677-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 3:30 pm	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:29	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.3 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*79-122*

Sample Information

Client Sample ID: KMW-TB **York Sample ID:** 19L0677-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-TB

York Sample ID: 19L0677-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			

Sample Information

Client Sample ID: KMW-TB

York Sample ID: 19L0677-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
19L0677	41433.00 TASK 0600 Katonah Municipal Well	Water	December 16, 2019 12:00 am	12/17/2019

Volatile Organics, 8260 - TCL/SOM (low level)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-20-9	**Methyl acetate**	**0.320**	J	ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP			
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP			
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	12/22/2019 07:30	12/22/2019 23:59	SS
							Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Case Narrative

Client: Chazen Environmental Services (Poughkeepsie)
Client Project ID: 41433.00 TASK 0600 Katonah Municipal Well
Prepared for: Will Olsen

Introduction

This Case Narrative applies only to the samples submitted to our laboratory on **12/17/2019 19:35** as detailed on the chain-of-custody form.

The 8 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (≤ 6°C) and documented as:

Cooler	Temp C°
Default Cooler	**1.7**

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

All preparation and analyses were conducted according to the appropriate EPA methods detailed in the report.

Sample and Analysis Qualifiers

Laboratory ID	Sample Name	Matrix
19L0677-01	KMW-MW-4R	Water
19L0677-02	KMW-MW-11R	Water
19L0677-03	KMW-MW-2S	Water
19L0677-04	KMW-MW-1S	Water
19L0677-05	KMW-PW	Water
19L0677-06	KMW-FD	Water
19L0677-07	KMW-EB	Water
19L0677-08	KMW-TB	Water

QC Sample Non-Conformances

Any QC sample non-conformances (CCV, LCS, DUP, MS) are detailed in the data package and in the attached tables.

No other problems were encountered during analysis.

York Project/SDG no.: 19L0677 Statement

We certify that these data are in compliance with SOP requirements both technically and for completeness for other than the conditions stated above. Release of the data contained in the hard copy report and any electronic deliverables has been authorized by the Laboratory Manager as verified by the signature on this laboratory report.

Approved by: *Ben Gulizia*

Laboratory Director

Date: 12/27/2019

York Analytical Laboratories, Inc.

Formulae Used for Sample Calculations

VOLATILE ORGANICS

1. Volatiles in Air-ppbv

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$Cx = \frac{(Ax)(Cis)(DF)}{(Ais)(RRF)}$$

2. Volatiles in Air-ug/m³

Cx (ug/m³)= Compound concentration in ug/m³

$$Cx\ (ug/m^3) = \frac{(ppbv \times Molecular\ wt.)}{(24.040)}$$

3. Volatile Organics (water and soil), ug/L or ug/kg

Soils/Waters

$$Cx = \frac{(Ax)(IS)(DF)}{(Ais)(RRF)(V)(\%\ solids)}$$

Medium Level Soils

$$Cx = \frac{(Ax)(IS)(VT)(1000)(DF)}{(Ais)(RRF)(VA)(V)(\%\ solids)}$$

4. Semi-Volatiles (waters and soils)

$$Cx = \frac{(Ax)(IS)(VE)(DF)}{(Ais)(RRF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

5. Pesticides/PCB (waters and soils), DRO, CTETPH

$$Cx = \frac{(Ax)(VE)(DF)}{(CF)(Volume\ injected,\ uL)(V)(\%\ solids)}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kg
Ax = Area of the characteristic ion for the compound to be measured, counts.
Ais = Area of the characteristic ion for the specific internal standard, counts.
IS = Concentration of the internal standard spiking mixture, ng
RRF = Mean relative response factor from the initial calibration.

DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1
V = Volume for liquids in mL, weight for soils/solids in grams.
VA = volume of MeOH aliquot for medium level soils
VE = final volume of concentrated extract
VT = volume of MeOH for volatiles medium level soils
CF = calibration factor for external calibration used in GC pest/pcb
Cis = Concentration of the internal standard spiking mixture, ppbv

Case Narrative Non-Conformance Summary

Laboratory:	York Analytical Laboratories, Inc.	Client:	Chazen Environmental Services (Poughkeepsie)
Project:	41433.00 TASK 0600 Katonah Municipal Well	Lab Project No:	19L0677
Laboratory Sample ID(s):	19L0677-01 - 19L0677-08	Sampling Date(s):	12/16/2019 - 12/16/2019
Review Date(s):	12/27/2019 - 12/27/2019	Laboratory Reviewer(s):	KMB

QC Sample Nonconformances

Batch ID: BL91221 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
BL91221-BS1	Chloromethane - 74-87-3	15.5 ug/L	LCS	155	43-155	High Bias				
BL91221-BS1	Dichlorodifluoromethane - 75-71-8	21.9 ug/L	LCS	219	44-144	High Bias				
BL91221-BS2	Dichlorodifluoromethane - 75-71-8	20.0 ug/L	LCS	200	44-144	High Bias				
BL91221-BS2	Methyl acetate - 79-20-9	14.2 ug/L	LCS	142	51-139	High Bias				
BL91221-BSD1	1,2-Dichloroethane - 107-06-2	0.590 ug/L	LCS Dup	5.90	73-132	Low Bias	180	30	Non-dir.	
BL91221-BSD1	Dichlorodifluoromethane - 75-71-8	21.3 ug/L	LCS Dup	213	44-144	High Bias	2.54	30		
BL91221-MS1	Dichlorodifluoromethane - 75-71-8	16.2 ug/L	Matrix Spike (KMW-MW-4R)	162	30-147	High Bias				
BL91221-MSD1	Dichlorodifluoromethane - 75-71-8	17.3 ug/L	Matrix Spike Dup (KMW-MW-4R)	173	30-147	High Bias	6.63	30		

Batch ID: Y9L2401 **Affected Samples:** **See Batch Summary**

QC Sample ID	Analyte - CAS No.	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Notes
Y9L2401-CCV1	1,2,3-Trichlorobenzene - 87-61-6	7.62 ug/L	Calibration Check	76.2	80-120	Low Bias				
Y9L2401-CCV1	2-Butanone - 78-93-3	4.78 ug/L	Calibration Check	47.8	80-120	Low Bias				
Y9L2401-CCV1	Chloroethane - 75-00-3	12.2 ug/L	Calibration Check	122	80-120	High Bias				
Y9L2401-CCV1	Chloromethane - 74-87-3	15.3 ug/L	Calibration Check	153	80-120	High Bias				
Y9L2401-CCV1	Dichlorodifluoromethane - 75-71-8	15.6 ug/L	Calibration Check	156	80-120	High Bias				
Y9L2401-CCV1	Trichlorofluoromethane - 75-69-4	12.1 ug/L	Calibration Check	121	80-120	High Bias				
Y9L2401-CCV1	Vinyl Chloride - 75-01-4	13.3 ug/L	Calibration Check	133	80-120	High Bias				

Batch ID: BL91221 **General Method:** Volatile Organic Compounds by GC/MS

YORK Sample ID	Client Sample ID
19L0677-01	KMW-MW-4R
19L0677-02	KMW-MW-11R
19L0677-03	KMW-MW-2S
19L0677-04	KMW-MW-1S
19L0677-05	KMW-PW
19L0677-06	KMW-FD
19L0677-07	KMW-EB
19L0677-08	KMW-TB
BL91221-BLK1	Blank
BL91221-BS1	LCS
BL91221-BS2	LCS
BL91221-BSD1	LCS Dup
BL91221-MS1	Matrix Spike
BL91221-MSD1	Matrix Spike Dup

No Sample Nonconformances Found

Notes: Other nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions:
LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

QC DATA QUALIFIERS

LabID	Analysis	Analyte	Qualifier	Definition
Y9L2401-CCV1	Volatile Organics, 8260 - TCL/SOM (low level)	Vinyl Chloride	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9L2401-CCV1	Volatile Organics, 8260 - TCL/SOM (low level)	Trichlorofluoromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9L2401-CCV1	Volatile Organics, 8260 - TCL/SOM (low level)	Chloroethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9L2401-CCV1	Volatile Organics, 8260 - TCL/SOM (low level)	Dichlorodifluoromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9L2401-CCV1	Volatile Organics, 8260 - TCL/SOM (low level)	Chloromethane	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9L2401-CCV1	Volatile Organics, 8260 - TCL/SOM (low level)	2-Butanone	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Y9L2401-CCV1	Volatile Organics, 8260 - TCL/SOM (low level)	1,2,3-Trichlorobenzene	CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
BL91221-MSD1	Volatile Organics, 8260 - TCL/SOM (low level)	Dichlorodifluoromethane	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

LabID	Analysis	Analyte	Qualifier	Definition
BL91221-BSD1	Volatile Organics, 8260 - TCL/SOM (low level)	Dichlorodifluoromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BL91221-BSD1	Volatile Organics, 8260 - TCL/SOM (low level)	1,2-Dichloroethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BL91221-BS2	Volatile Organics, 8260 - TCL/SOM (low level)	Methyl acetate	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BL91221-BS2	Volatile Organics, 8260 - TCL/SOM (low level)	Dichlorodifluoromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BL91221-BS1	Volatile Organics, 8260 - TCL/SOM (low level)	Dichlorodifluoromethane	QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BL91221-MS1	Volatile Organics, 8260 - TCL/SOM (low level)	Dichlorodifluoromethane	QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Analytical Batch Summary

Batch ID: BL91221 **Preparation Method:** EPA 5030B **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
19L0677-01	KMW-MW-4R	12/22/19
19L0677-02	KMW-MW-11R	12/22/19
19L0677-03	KMW-MW-2S	12/22/19
19L0677-04	KMW-MW-1S	12/22/19
19L0677-05	KMW-PW	12/22/19
19L0677-06	KMW-FD	12/22/19
19L0677-07	KMW-EB	12/22/19
19L0677-08	KMW-TB	12/22/19
BL91221-BLK1	Blank	12/22/19
BL91221-BS1	LCS	12/22/19
BL91221-BS2	LCS	12/22/19
BL91221-BSD1	LCS Dup	12/22/19
BL91221-MS1	Matrix Spike	12/22/19
BL91221-MSD1	Matrix Spike Dup	12/22/19

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Blank (BL91221-BLK1)									Prepared & Analyzed: 12/22/2019		
1,1,1-Trichloroethane	ND	0.500	ug/L								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
Styrene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Blank (BL91221-BLK1)								Prepared & Analyzed: 12/22/2019			
Vinyl Chloride	ND	0.500	ug/L								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.27*		*"*	*10.0*		*92.7*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.4*		*"*	*10.0*		*104*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.2*		*"*	*10.0*		*112*	*79-122*				
LCS (BL91221-BS1)								Prepared & Analyzed: 12/22/2019			
1,1,1-Trichloroethane	12.0		ug/L	10.0		120	78-136				
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8		"	10.0		118	54-165				
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123				
1,1-Dichloroethane	10.8		"	10.0		108	82-129				
1,1-Dichloroethylene	11.8		"	10.0		118	68-138				
1,2,3-Trichlorobenzene	8.87		"	10.0		88.7	76-136				
1,2,4-Trichlorobenzene	9.17		"	10.0		91.7	76-137				
1,2-Dibromo-3-chloropropane	9.96		"	10.0		99.6	45-147				
1,2-Dibromoethane	10.1		"	10.0		101	83-124				
1,2-Dichlorobenzene	9.96		"	10.0		99.6	79-123				
1,2-Dichloroethane	11.2		"	10.0		112	73-132				
1,2-Dichloropropane	10.2		"	10.0		102	78-126				
1,3-Dichlorobenzene	10.0		"	10.0		100	86-122				
1,4-Dichlorobenzene	10.1		"	10.0		101	85-124				
2-Butanone	11.8		"	10.0		118	49-152				
2-Hexanone	11.3		"	10.0		113	51-146				
4-Methyl-2-pentanone	12.0		"	10.0		120	57-145				
Acetone	9.54		"	10.0		95.4	14-150				
Benzene	11.4		"	10.0		114	85-126				
Bromochloromethane	10.8		"	10.0		108	77-128				
Bromodichloromethane	10.6		"	10.0		106	79-128				
Bromoform	10.1		"	10.0		101	78-133				
Bromomethane	15.1		"	10.0		151	43-168				
Carbon disulfide	12.0		"	10.0		120	68-146				
Carbon tetrachloride	11.3		"	10.0		113	77-141				
Chlorobenzene	10.4		"	10.0		104	88-120				
Chloroethane	12.7		"	10.0		127	65-136				
Chloroform	10.9		"	10.0		109	82-128				
Chloromethane	15.5		"	10.0		155	43-155				
cis-1,2-Dichloroethylene	11.2		"	10.0		112	83-129				
cis-1,3-Dichloropropylene	11.3		"	10.0		113	80-131				
Cyclohexane	11.9		"	10.0		119	63-149				
Dibromochloromethane	11.4		"	10.0		114	80-130				
Dichlorodifluoromethane	21.9		"	10.0		219	44-144	High Bias			
Ethyl Benzene	10.8		"	10.0		108	80-131				
Isopropylbenzene	10.3		"	10.0		103	76-140				
Methyl acetate	11.0		"	10.0		110	51-139				
Methyl tert-butyl ether (MTBE)	11.4		"	10.0		114	76-135				
Methylcyclohexane	11.3		"	10.0		113	72-143				
Methylene chloride	11.6		"	10.0		116	55-137				
o-Xylene	11.0		"	10.0		110	78-130				
p- & m- Xylenes	21.6		"	20.0		108	77-133				
Styrene	10.9		"	10.0		109	67-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
LCS (BL91221-BS1)								Prepared & Analyzed: 12/22/2019			
Tetrachloroethylene	9.05		ug/L	10.0		90.5	82-131				
Toluene	11.0		"	10.0		110	80-127				
trans-1,2-Dichloroethylene	12.1		"	10.0		121	80-132				
trans-1,3-Dichloropropylene	11.1		"	10.0		111	78-131				
Trichloroethylene	10.4		"	10.0		104	82-128				
Trichlorofluoromethane	12.2		"	10.0		122	67-139				
Vinyl Chloride	13.1		"	10.0		131	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BL91221-BS2)								Prepared & Analyzed: 12/22/2019			
1,1,1-Trichloroethane	10.9		ug/L	10.0		109	78-136				
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165				
1,1,2-Trichloroethane	9.51		"	10.0		95.1	82-123				
1,1-Dichloroethane	10.1		"	10.0		101	82-129				
1,1-Dichloroethylene	10.8		"	10.0		108	68-138				
1,2,3-Trichlorobenzene	9.09		"	10.0		90.9	76-136				
1,2,4-Trichlorobenzene	9.36		"	10.0		93.6	76-137				
1,2-Dibromo-3-chloropropane	9.30		"	10.0		93.0	45-147				
1,2-Dibromoethane	9.70		"	10.0		97.0	83-124				
1,2-Dichlorobenzene	9.98		"	10.0		99.8	79-123				
1,2-Dichloroethane	10.3		"	10.0		103	73-132				
1,2-Dichloropropane	9.90		"	10.0		99.0	78-126				
1,3-Dichlorobenzene	9.96		"	10.0		99.6	86-122				
1,4-Dichlorobenzene	9.94		"	10.0		99.4	85-124				
2-Butanone	7.91		"	10.0		79.1	49-152				
2-Hexanone	10.3		"	10.0		103	51-146				
4-Methyl-2-pentanone	11.1		"	10.0		111	57-145				
Acetone	8.10		"	10.0		81.0	14-150				
Benzene	10.5		"	10.0		105	85-126				
Bromochloromethane	9.55		"	10.0		95.5	77-128				
Bromodichloromethane	10.3		"	10.0		103	79-128				
Bromoform	9.42		"	10.0		94.2	78-133				
Bromomethane	16.2		"	10.0		162	43-168				
Carbon disulfide	10.9		"	10.0		109	68-146				
Carbon tetrachloride	10.3		"	10.0		103	77-141				
Chlorobenzene	9.90		"	10.0		99.0	88-120				
Chloroethane	12.2		"	10.0		122	65-136				
Chloroform	9.94		"	10.0		99.4	82-128				
Chloromethane	14.1		"	10.0		141	43-155				
cis-1,2-Dichloroethylene	10.6		"	10.0		106	83-129				
cis-1,3-Dichloropropylene	10.6		"	10.0		106	80-131				
Cyclohexane	11.0		"	10.0		110	63-149				
Dibromochloromethane	11.0		"	10.0		110	80-130				
Dichlorodifluoromethane	20.0		"	10.0		200	44-144	High Bias			
Ethyl Benzene	10.4		"	10.0		104	80-131				
Isopropylbenzene	10.2		"	10.0		102	76-140				
Methyl acetate	14.2		"	10.0		142	51-139	High Bias			
Methyl tert-butyl ether (MTBE)	10.5		"	10.0		105	76-135				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
LCS (BL91221-BS2)								Prepared & Analyzed: 12/22/2019			
Methylcyclohexane	10.9		ug/L	10.0		109	72-143				
Methylene chloride	10.7		"	10.0		107	55-137				
o-Xylene	10.5		"	10.0		105	78-130				
p- & m- Xylenes	20.7		"	20.0		103	77-133				
Styrene	10.5		"	10.0		105	67-132				
Tetrachloroethylene	8.56		"	10.0		85.6	82-131				
Toluene	10.6		"	10.0		106	80-127				
trans-1,2-Dichloroethylene	11.0		"	10.0		110	80-132				
trans-1,3-Dichloropropylene	10.7		"	10.0		107	78-131				
Trichloroethylene	10.3		"	10.0		103	82-128				
Trichlorofluoromethane	11.3		"	10.0		113	67-139				
Vinyl Chloride	11.8		"	10.0		118	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.61*		*"*	*10.0*		*96.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.73*		*"*	*10.0*		*97.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*79-122*				
LCS Dup (BL91221-BSD1)								Prepared & Analyzed: 12/22/2019			
1,1,1-Trichloroethane	10.7		ug/L	10.0		107	78-136		10.9	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129		1.27	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7		"	10.0		107	54-165		9.49	30	
1,1,2-Trichloroethane	9.45		"	10.0		94.5	82-123		7.63	30	
1,1-Dichloroethane	10.6		"	10.0		106	82-129		2.24	30	
1,1-Dichloroethylene	10.7		"	10.0		107	68-138		10.2	30	
1,2,3-Trichlorobenzene	8.80		"	10.0		88.0	76-136		0.792	30	
1,2,4-Trichlorobenzene	9.09		"	10.0		90.9	76-137		0.876	30	
1,2-Dibromo-3-chloropropane	9.37		"	10.0		93.7	45-147		6.10	30	
1,2-Dibromoethane	9.65		"	10.0		96.5	83-124		4.85	30	
1,2-Dichlorobenzene	9.87		"	10.0		98.7	79-123		0.908	30	
1,2-Dichloroethane	0.590		"	10.0		5.90	73-132	Low Bias	180	30	Non-dir.
1,2-Dichloropropane	9.69		"	10.0		96.9	78-126		5.32	30	
1,3-Dichlorobenzene	9.78		"	10.0		97.8	86-122		2.42	30	
1,4-Dichlorobenzene	10.1		"	10.0		101	85-124		0.396	30	
2-Butanone	11.6		"	10.0		116	49-152		1.62	30	
2-Hexanone	11.0		"	10.0		110	51-146		2.88	30	
4-Methyl-2-pentanone	10.8		"	10.0		108	57-145		10.2	30	
Acetone	8.29		"	10.0		82.9	14-150		14.0	30	
Benzene	10.3		"	10.0		103	85-126		9.87	30	
Bromochloromethane	10.4		"	10.0		104	77-128		3.68	30	
Bromodichloromethane	9.97		"	10.0		99.7	79-128		5.84	30	
Bromoform	9.37		"	10.0		93.7	78-133		7.70	30	
Bromomethane	16.5		"	10.0		165	43-168		9.24	30	
Carbon disulfide	11.5		"	10.0		115	68-146		4.24	30	
Carbon tetrachloride	10.7		"	10.0		107	77-141		5.43	30	
Chlorobenzene	10.4		"	10.0		104	88-120		0.0957	30	
Chloroethane	12.3		"	10.0		123	65-136		3.13	30	
Chloroform	10.7		"	10.0		107	82-128		1.58	30	
Chloromethane	14.0		"	10.0		140	43-155		10.5	30	
cis-1,2-Dichloroethylene	11.1		"	10.0		111	83-129		1.61	30	
cis-1,3-Dichloropropylene	10.5		"	10.0		105	80-131		7.71	30	
Cyclohexane	11.4		"	10.0		114	63-149		4.12	30	
Dibromochloromethane	10.4		"	10.0		104	80-130		9.63	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
LCS Dup (BL91221-BSD1)								Prepared & Analyzed: 12/22/2019			
Dichlorodifluoromethane	21.3		ug/L	10.0		213	44-144	High Bias	2.54	30	
Ethyl Benzene	10.2		"	10.0		102	80-131		5.23	30	
Isopropylbenzene	10.0		"	10.0		100	76-140		2.86	30	
Methyl acetate	9.57		"	10.0		95.7	51-139		13.6	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		1.15	30	
Methylcyclohexane	10.7		"	10.0		107	72-143		6.09	30	
Methylene chloride	11.2		"	10.0		112	55-137		3.16	30	
o-Xylene	10.9		"	10.0		109	78-130		1.55	30	
p- & m- Xylenes	20.4		"	20.0		102	77-133		5.77	30	
Styrene	10.4		"	10.0		104	67-132		5.07	30	
Tetrachloroethylene	9.09		"	10.0		90.9	82-131		0.441	30	
Toluene	10.3		"	10.0		103	80-127		6.49	30	
trans-1,2-Dichloroethylene	11.0		"	10.0		110	80-132		9.68	30	
trans-1,3-Dichloropropylene	11.1		"	10.0		111	78-131		0.0902	30	
Trichloroethylene	10.7		"	10.0		107	82-128		1.99	30	
Trichlorofluoromethane	11.3		"	10.0		113	67-139		7.15	30	
Vinyl Chloride	12.3		"	10.0		123	58-145		6.38	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.83*		*"*	*10.0*		*98.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.8*		*"*	*10.0*		*108*	*79-122*				
Matrix Spike (BL91221-MS1)	*Source sample: 19L0677-01 (KMW-MW-4R)							Prepared: 12/22/2019 Analyzed: 12/23/2019			
1,1,1-Trichloroethane	12.5		ug/L	10.0	0.00	125	70-146				
1,1,2,2-Tetrachloroethane	9.79		"	10.0	0.00	97.9	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4		"	10.0	0.00	124	21-217				
1,1,2-Trichloroethane	10.4		"	10.0	0.00	104	59-146				
1,1-Dichloroethane	11.1		"	10.0	0.00	111	54-146				
1,1-Dichloroethylene	12.1		"	10.0	0.00	121	44-165				
1,2,3-Trichlorobenzene	8.03		"	10.0	0.00	80.3	40-161				
1,2,4-Trichlorobenzene	8.95		"	10.0	0.00	89.5	41-161				
1,2-Dibromo-3-chloropropane	9.18		"	10.0	0.00	91.8	31-151				
1,2-Dibromoethane	10.8		"	10.0	0.00	108	75-125				
1,2-Dichlorobenzene	10.5		"	10.0	0.00	105	63-122				
1,2-Dichloroethane	11.1		"	10.0	0.00	111	68-131				
1,2-Dichloropropane	10.2		"	10.0	0.00	102	77-121				
1,3-Dichlorobenzene	10.4		"	10.0	0.00	104	74-119				
1,4-Dichlorobenzene	10.3		"	10.0	0.00	103	70-124				
2-Butanone	11.2		"	10.0	0.00	112	10-193				
2-Hexanone	10.8		"	10.0	0.00	108	53-133				
4-Methyl-2-pentanone	11.6		"	10.0	0.00	116	38-150				
Acetone	9.46		"	10.0	0.00	94.6	13-149				
Benzene	11.6		"	10.0	0.00	116	38-155				
Bromochloromethane	10.8		"	10.0	0.00	108	75-121				
Bromodichloromethane	10.8		"	10.0	0.00	108	70-129				
Bromoform	9.92		"	10.0	0.00	99.2	66-136				
Bromomethane	12.4		"	10.0	0.00	124	30-158				
Carbon disulfide	12.3		"	10.0	0.00	123	10-138				
Carbon tetrachloride	12.3		"	10.0	0.00	123	71-146				
Chlorobenzene	10.6		"	10.0	0.00	106	81-117				
Chloroethane	14.4		"	10.0	0.00	144	51-145				
Chloroform	11.4		"	10.0	0.00	114	80-124				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Matrix Spike (BL91221-MS1)	*Source sample: 19L0677-01 (KMW-MW-4R)							Prepared: 12/22/2019 Analyzed: 12/23/2019			
Chloromethane	14.6		ug/L	10.0	0.00	146	16-163				
cis-1,2-Dichloroethylene	11.3		"	10.0	0.00	113	76-125				
cis-1,3-Dichloropropylene	11.0		"	10.0	0.00	110	58-131				
Cyclohexane	12.6		"	10.0	0.00	126	70-130				
Dibromochloromethane	11.7		"	10.0	0.00	117	71-129				
Dichlorodifluoromethane	16.2		"	10.0	0.00	162	30-147	High Bias			
Ethyl Benzene	11.3		"	10.0	0.00	113	72-128				
Isopropylbenzene	10.6		"	10.0	0.00	106	66-139				
Methyl acetate	9.71		"	10.0	0.00	97.1	10-200				
Methyl tert-butyl ether (MTBE)	11.1		"	10.0	0.00	111	75-128				
Methylcyclohexane	11.9		"	10.0	0.00	119	70-130				
Methylene chloride	12.0		"	10.0	0.00	120	57-128				
o-Xylene	11.1		"	10.0	0.00	111	69-126				
p- & m- Xylenes	22.6		"	20.0	0.460	111	67-130				
Styrene	11.6		"	10.0	0.00	116	69-125				
Tetrachloroethylene	13.4		"	10.0	3.59	98.5	64-139				
Toluene	11.1		"	10.0	0.00	111	76-123				
trans-1,2-Dichloroethylene	12.4		"	10.0	0.00	124	79-131				
trans-1,3-Dichloropropylene	10.9		"	10.0	0.00	109	55-130				
Trichloroethylene	11.4		"	10.0	0.00	114	53-145				
Trichlorofluoromethane	13.6		"	10.0	0.00	136	61-142				
Vinyl Chloride	12.6		"	10.0	0.00	126	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.80*		*"*	*10.0*		*98.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.84*		*"*	*10.0*		*98.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.51*		*"*	*10.0*		*95.1*	*79-122*				
Matrix Spike Dup (BL91221-MSD1)	*Source sample: 19L0677-01 (KMW-MW-4R)							Prepared: 12/22/2019 Analyzed: 12/23/2019			
1,1,1-Trichloroethane	12.8		ug/L	10.0	0.00	128	70-146		2.22	30	
1,1,2,2-Tetrachloroethane	11.1		"	10.0	0.00	111	74-121		12.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.4		"	10.0	0.00	124	21-217		0.0807	30	
1,1,2-Trichloroethane	11.3		"	10.0	0.00	113	59-146		8.32	30	
1,1-Dichloroethane	11.3		"	10.0	0.00	113	54-146		1.70	30	
1,1-Dichloroethylene	12.3		"	10.0	0.00	123	44-165		2.05	30	
1,2,3-Trichlorobenzene	8.97		"	10.0	0.00	89.7	40-161		11.1	30	
1,2,4-Trichlorobenzene	9.69		"	10.0	0.00	96.9	41-161		7.94	30	
1,2-Dibromo-3-chloropropane	10.2		"	10.0	0.00	102	31-151		10.2	30	
1,2-Dibromoethane	11.6		"	10.0	0.00	116	75-125		7.43	30	
1,2-Dichlorobenzene	11.1		"	10.0	0.00	111	63-122		5.00	30	
1,2-Dichloroethane	11.4		"	10.0	0.00	114	68-131		2.50	30	
1,2-Dichloropropane	11.2		"	10.0	0.00	112	77-121		9.16	30	
1,3-Dichlorobenzene	11.1		"	10.0	0.00	111	74-119		6.41	30	
1,4-Dichlorobenzene	10.7		"	10.0	0.00	107	70-124		4.00	30	
2-Butanone	11.9		"	10.0	0.00	119	10-193		5.95	30	
2-Hexanone	12.4		"	10.0	0.00	124	53-133		14.3	30	
4-Methyl-2-pentanone	12.1		"	10.0	0.00	121	38-150		4.04	30	
Acetone	9.68		"	10.0	0.00	96.8	13-149		2.30	30	
Benzene	11.9		"	10.0	0.00	119	38-155		2.29	30	
Bromochloromethane	11.1		"	10.0	0.00	111	75-121		3.02	30	
Bromodichloromethane	11.6		"	10.0	0.00	116	70-129		7.22	30	
Bromoform	10.9		"	10.0	0.00	109	66-136		9.60	30	
Bromomethane	14.6		"	10.0	0.00	146	30-158		16.0	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL91221 - EPA 5030B											
Matrix Spike Dup (BL91221-MSD1)	*Source sample: 19L0677-01 (KMW-MW-4R)								Prepared: 12/22/2019 Analyzed: 12/23/2019		
Carbon disulfide	12.5		ug/L	10.0	0.00	125	10-138		1.61	30	
Carbon tetrachloride	12.4		"	10.0	0.00	124	71-146		0.893	30	
Chlorobenzene	11.3		"	10.0	0.00	113	81-117		6.12	30	
Chloroethane	13.7		"	10.0	0.00	137	51-145		4.99	30	
Chloroform	11.7		"	10.0	0.00	117	80-124		2.68	30	
Chloromethane	14.3		"	10.0	0.00	143	16-163		2.42	30	
cis-1,2-Dichloroethylene	11.8		"	10.0	0.00	118	76-125		3.98	30	
cis-1,3-Dichloropropylene	11.9		"	10.0	0.00	119	58-131		8.29	30	
Cyclohexane	12.8		"	10.0	0.00	128	70-130		1.58	30	
Dibromochloromethane	12.8		"	10.0	0.00	128	71-129		9.06	30	
Dichlorodifluoromethane	17.3		"	10.0	0.00	173	30-147	High Bias	6.63	30	
Ethyl Benzene	12.0		"	10.0	0.00	120	72-128		6.19	30	
Isopropylbenzene	11.5		"	10.0	0.00	115	66-139		8.25	30	
Methyl acetate	9.83		"	10.0	0.00	98.3	10-200		1.23	30	
Methyl tert-butyl ether (MTBE)	11.6		"	10.0	0.00	116	75-128		4.48	30	
Methylcyclohexane	12.4		"	10.0	0.00	124	70-130		4.69	30	
Methylene chloride	12.3		"	10.0	0.00	123	57-128		2.39	30	
o-Xylene	12.0		"	10.0	0.00	120	69-126		7.72	30	
p- & m- Xylenes	23.6		"	20.0	0.460	116	67-130		3.94	30	
Styrene	12.2		"	10.0	0.00	122	69-125		4.71	30	
Tetrachloroethylene	14.0		"	10.0	3.59	104	64-139		4.01	30	
Toluene	12.0		"	10.0	0.00	120	76-123		7.27	30	
trans-1,2-Dichloroethylene	12.4		"	10.0	0.00	124	79-131		0.483	30	
trans-1,3-Dichloropropylene	11.6		"	10.0	0.00	116	55-130		5.97	30	
Trichloroethylene	11.8		"	10.0	0.00	118	53-145		3.87	30	
Trichlorofluoromethane	13.1		"	10.0	0.00	131	61-142		3.52	30	
Vinyl Chloride	12.8		"	10.0	0.00	128	31-165		1.18	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.85*		*"*	*10.0*		*98.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19L0677-01	KMW-MW-4R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-02	KMW-MW-11R	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-03	KMW-MW-2S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-04	KMW-MW-1S	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-05	KMW-PW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-06	KMW-FD	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-07	KMW-EB	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
19L0677-08	KMW-TB	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Laboratory Chain-of-Custody Record

York Project (SDG) No.: 19L0677

Samples Received: 12/17/2019 19:35 **By:** Terri Gale **Logged In:** 12/17/2019 15:38 **By:** Terri Gale

Sample Conditions:

- [X] Custody Seals
- [X] Containers Intact
- [X] COC/Labels Agree
- [X] Preservation Confirmed
- [X] Cooler Temperature Confirmed
- [X] COC Complete
- [X] Chain of Custody Form Received
- [X] Appropriate Sample Volumes Received
- [X] Appropriate Sample Containers Submitted
- [X] Samples Submitted within Holding Times
- [ ] Corrective Action Form Required

Preparation Chain-of-Custody

Sample ID	Reason Prep	Prep Start Date	Prep End Date	Prep Analyst
19L0677-01	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon
19L0677-02	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon
19L0677-03	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon
19L0677-04	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon
19L0677-05	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon
19L0677-06	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon
19L0677-07	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon
19L0677-08	EPA 5030B	12/22/2019 7:30	12/22/2019 7:30	Meghan A. Tallon

Analysis Chain-of-Custody

Sample ID	Reason Analysis	Analysis Start Date	Analysis End Date	Analyst
19L0677-01	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 20:32	Steve Swift
19L0677-02	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 21:01	Steve Swift
19L0677-03	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 21:31	Steve Swift
19L0677-04	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 22:00	Steve Swift
19L0677-05	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 22:30	Steve Swift
19L0677-06	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 23:00	Steve Swift
19L0677-07	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 23:29	Steve Swift
19L0677-08	VOA, 8260 LOW MASTER	12/22/2019 7:30	12/22/2019 23:59	Steve Swift

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 19L0677

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: The Chazen Companies	Company: Chazen	Company: Chazen
Address: 21 Fox Street Poughkeepsie, NY 12601	Address:	Address:
Phone.: 845-454-3980	Phone.:	Phone.:
Contact: Will Olsen	Contact: Will Olsen	Contact: accounts payable
E-mail: wolsen@chazencompanies.com	E-mail:	E-mail:

YOUR Project Number: 41433.00 TASK 0600

YOUR Project Name: KATONAH MUNICIPAL WELL

YOUR PO#: 6186

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
William G. Olsen

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)

Summary Report
QA Report
NY ASP A Package
NY ASP B Package
CT RCP
CT RCP DQA/DUE
NJDEP Reduced Deliverables
NJDKQP
Standard Excel EDD
EQuIS (Standard)
NYSDEC EQuIS
NJDEP SRP HazSite
Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)
TOGS 1.1.1

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
KMW-MW-4R	GW	12-16-19 10:45	TCL VOCs (low-level)	3 x 40ml VOA
KMW-MW-11R	GW	12:47		
KMW-MW-2S	GW	13:54		
KMW-MW-1S	GW	14:57		
KMW-PW	GW	15:13		
KMW-MW-4R-MS/MSD	GW	10:45		6 x 40ml VOA
KMW-FD	GW	XX:XX		3 x 40ml VOA
KMW-EB	D.I.	15:30		
KMW-TB	D.I.			2 x 40ml VOA

Comments: Samples placed in secure Chazen refridgerator @ 16:45 on 12-16-19

Preservation: (check all that apply)
HCl X MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
William G. Olsen / CHAZEN	12-16-19 16:45	TOM A / York	12/17/19 1515	TOM A / York	12/17/19
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
VINNY / YORK	12-17-19 1728	VINNY / YORK	12-17-19 1935		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				Gab	12-17-19 1935 / 1.7 Degrees C

York Analytical Laboratories, Inc.
SDG: 19L0677
CLASS: VOA
METHOD: EPA 8260C

DATA PACKAGE COVER PAGE

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Client Sample Id:	Lab Sample Id:
KMW-MW-4R	19L0677-01
KMW-MW-11R	19L0677-02
KMW-MW-2S	19L0677-03
KMW-MW-1S	19L0677-04
KMW-PW	19L0677-05
KMW-FD	19L0677-06
KMW-EB	19L0677-07
KMW-TB	19L0677-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:  Name: Benjamin Gulizia

Date: 12/27/2019 Title: Laboratory Director

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Sequence: Y9L2401 Instrument: MSVOA7

Calibration: YJ90021

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (BL91221-BS1)			Lab File ID: V737506.D		Analyzed: 12/22/19 15:05			
SURR: 1,2-Dichloroethane-d4	10.0	106	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	102	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	104	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
LCS Dup (BL91221-BSD1)			Lab File ID: V737509.D		Analyzed: 12/22/19 15:35			
SURR: 1,2-Dichloroethane-d4	10.0	98.3	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	101	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	108	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
LCS (BL91221-BS2)			Lab File ID: V737508.D		Analyzed: 12/22/19 16:04			
SURR: 1,2-Dichloroethane-d4	10.0	96.1	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	97.3	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	109	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
Blank (BL91221-BLK1)			Lab File ID: V737511.D		Analyzed: 12/22/19 17:34			
SURR: 1,2-Dichloroethane-d4	10.0	92.7	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	104	81 - 117	7.347	7.345429	0.0016	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	112	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
KMW-MW-4R (19L0677-01)			Lab File ID: V737517.D		Analyzed: 12/22/19 20:32			
SURR: 1,2-Dichloroethane-d4	10.0	96.0	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	99.4	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	113	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
KMW-MW-11R (19L0677-02)			Lab File ID: V737518.D		Analyzed: 12/22/19 21:01			
SURR: 1,2-Dichloroethane-d4	10.0	92.9	69 - 130	5.547	5.552429	-0.0054	+/-1.00	
SURR: Toluene-d8	10.0	101	81 - 117	7.345	7.345429	-0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	108	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
KMW-MW-2S (19L0677-03)			Lab File ID: V737519.D		Analyzed: 12/22/19 21:31			
SURR: 1,2-Dichloroethane-d4	10.0	94.7	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	98.9	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	106	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
KMW-MW-1S (19L0677-04)			Lab File ID: V737520.D		Analyzed: 12/22/19 22:00			
SURR: 1,2-Dichloroethane-d4	10.0	97.1	69 - 130	5.547	5.552429	-0.0054	+/-1.00	
SURR: Toluene-d8	10.0	101	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	104	79 - 122	10.121	10.12443	-0.0034	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Sequence: Y9L2401 Instrument: MSVOA7

Calibration: YJ90021

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
KMW-PW (19L0677-05)			Lab File ID: V737521.D		Analyzed: 12/22/19 22:30			
SURR: 1,2-Dichloroethane-d4	10.0	95.8	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	99.8	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	105	79 - 122	10.124	10.12443	-0.0004	+/-1.00	
KMW-FD (19L0677-06)			Lab File ID: V737522.D		Analyzed: 12/22/19 23:00			
SURR: 1,2-Dichloroethane-d4	10.0	89.8	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	103	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	109	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
KMW-EB (19L0677-07)			Lab File ID: V737523.D		Analyzed: 12/22/19 23:29			
SURR: 1,2-Dichloroethane-d4	10.0	97.3	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	99.4	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	107	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
KMW-TB (19L0677-08)			Lab File ID: V737524.D		Analyzed: 12/22/19 23:59			
SURR: 1,2-Dichloroethane-d4	10.0	96.0	69 - 130	5.547	5.552429	-0.0054	+/-1.00	
SURR: Toluene-d8	10.0	99.5	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	106	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
Matrix Spike (BL91221-MS1)			Lab File ID: V737525.D		Analyzed: 12/23/19 00:28			
SURR: 1,2-Dichloroethane-d4	10.0	98.0	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	98.4	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	95.1	79 - 122	10.121	10.12443	-0.0034	+/-1.00	
Matrix Spike Dup (BL91221-MSD1)			Lab File ID: V737526.D		Analyzed: 12/23/19 00:58			
SURR: 1,2-Dichloroethane-d4	10.0	98.5	69 - 130	5.55	5.552429	-0.0024	+/-1.00	
SURR: Toluene-d8	10.0	99.2	81 - 117	7.344	7.345429	-0.0014	+/-1.00	
SURR: p-Bromofluorobenzene	10.0	101	79 - 122	10.121	10.12443	-0.0034	+/-1.00	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KMW-MW-4R

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-MS1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KMW-MW-4R

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	0.00	12.5	125	70 - 146
1,1,2,2-Tetrachloroethane	10.0	0.00	9.79	97.9	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	0.00	12.4	124	21 - 217
1,1,2-Trichloroethane	10.0	0.00	10.4	104	59 - 146
1,1-Dichloroethane	10.0	0.00	11.1	111	54 - 146
1,1-Dichloroethylene	10.0	0.00	12.1	121	44 - 165
1,2,3-Trichlorobenzene	10.0	0.00	8.03	80.3	40 - 161
1,2,4-Trichlorobenzene	10.0	0.00	8.95	89.5	41 - 161
1,2-Dibromo-3-chloropropane	10.0	0.00	9.18	91.8	31 - 151
1,2-Dibromoethane	10.0	0.00	10.8	108	75 - 125
1,2-Dichlorobenzene	10.0	0.00	10.5	105	63 - 122
1,2-Dichloroethane	10.0	0.00	11.1	111	68 - 131
1,2-Dichloropropane	10.0	0.00	10.2	102	77 - 121
1,3-Dichlorobenzene	10.0	0.00	10.4	104	74 - 119
1,4-Dichlorobenzene	10.0	0.00	10.3	103	70 - 124
2-Butanone	10.0	0.00	11.2	112	10 - 193
2-Hexanone	10.0	0.00	10.8	108	53 - 133
4-Methyl-2-pentanone	10.0	0.00	11.6	116	38 - 150
Acetone	10.0	0.00	9.46	94.6	13 - 149
Benzene	10.0	0.00	11.6	116	38 - 155
Bromochloromethane	10.0	0.00	10.8	108	75 - 121
Bromodichloromethane	10.0	0.00	10.8	108	70 - 129
Bromoform	10.0	0.00	9.92	99.2	66 - 136
Bromomethane	10.0	0.00	12.4	124	30 - 158
Carbon disulfide	10.0	0.00	12.3	123	10 - 138
Carbon tetrachloride	10.0	0.00	12.3	123	71 - 146
Chlorobenzene	10.0	0.00	10.6	106	81 - 117
Chloroethane	10.0	0.00	14.4	144	51 - 145
Chloroform	10.0	0.00	11.4	114	80 - 124
Chloromethane	10.0	0.00	14.6	146	16 - 163
cis-1,2-Dichloroethylene	10.0	0.00	11.3	113	76 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KMW-MW-4R

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-MS1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KMW-MW-4R

COMPOUND	SPIKE ADDED ppb	SAMPLE CONCENTRATION ppb	MS CONCENTRATION ppb	MS % REC. #	QC LIMITS REC.
cis-1,3-Dichloropropylene	10.0	0.00	11.0	110	58 - 131
Cyclohexane	10.0	0.00	12.6	126	70 - 130
Dibromochloromethane	10.0	0.00	11.7	117	71 - 129
Dichlorodifluoromethane	10.0	0.00	16.2	162 *	30 - 147
Ethyl Benzene	10.0	0.00	11.3	113	72 - 128
Isopropylbenzene	10.0	0.00	10.6	106	66 - 139
Methyl acetate	10.0	0.00	9.71	97.1	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	0.00	11.1	111	75 - 128
Methylcyclohexane	10.0	0.00	11.9	119	70 - 130
Methylene chloride	10.0	0.00	12.0	120	57 - 128
o-Xylene	10.0	0.00	11.1	111	69 - 126
p- & m- Xylenes	20.0	0.460	22.6	111	67 - 130
Styrene	10.0	0.00	11.6	116	69 - 125
Tetrachloroethylene	10.0	3.59	13.4	98.5	64 - 139
Toluene	10.0	0.00	11.1	111	76 - 123
trans-1,2-Dichloroethylene	10.0	0.00	12.4	124	79 - 131
trans-1,3-Dichloropropylene	10.0	0.00	10.9	109	55 - 130
Trichloroethylene	10.0	0.00	11.4	114	53 - 145
Trichlorofluoromethane	10.0	0.00	13.6	136	61 - 142
Vinyl Chloride	10.0	0.00	12.6	126	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KMW-MW-4R

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-MSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KMW-MW-4R

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	12.8	128	2.22	30	70 - 146
1,1,2,2-Tetrachloroethane	10.0	11.1	111	12.9	30	74 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	12.4	124	0.0807	30	21 - 217
1,1,2-Trichloroethane	10.0	11.3	113	8.32	30	59 - 146
1,1-Dichloroethane	10.0	11.3	113	1.70	30	54 - 146
1,1-Dichloroethylene	10.0	12.3	123	2.05	30	44 - 165
1,2,3-Trichlorobenzene	10.0	8.97	89.7	11.1	30	40 - 161
1,2,4-Trichlorobenzene	10.0	9.69	96.9	7.94	30	41 - 161
1,2-Dibromo-3-chloropropane	10.0	10.2	102	10.2	30	31 - 151
1,2-Dibromoethane	10.0	11.6	116	7.43	30	75 - 125
1,2-Dichlorobenzene	10.0	11.1	111	5.00	30	63 - 122
1,2-Dichloroethane	10.0	11.4	114	2.50	30	68 - 131
1,2-Dichloropropane	10.0	11.2	112	9.16	30	77 - 121
1,3-Dichlorobenzene	10.0	11.1	111	6.41	30	74 - 119
1,4-Dichlorobenzene	10.0	10.7	107	4.00	30	70 - 124
2-Butanone	10.0	11.9	119	5.95	30	10 - 193
2-Hexanone	10.0	12.4	124	14.3	30	53 - 133
4-Methyl-2-pentanone	10.0	12.1	121	4.04	30	38 - 150
Acetone	10.0	9.68	96.8	2.30	30	13 - 149
Benzene	10.0	11.9	119	2.29	30	38 - 155
Bromochloromethane	10.0	11.1	111	3.02	30	75 - 121
Bromodichloromethane	10.0	11.6	116	7.22	30	70 - 129
Bromoform	10.0	10.9	109	9.60	30	66 - 136
Bromomethane	10.0	14.6	146	16.0	30	30 - 158
Carbon disulfide	10.0	12.5	125	1.61	30	10 - 138
Carbon tetrachloride	10.0	12.4	124	0.893	30	71 - 146
Chlorobenzene	10.0	11.3	113	6.12	30	81 - 117
Chloroethane	10.0	13.7	137	4.99	30	51 - 145
Chloroform	10.0	11.7	117	2.68	30	80 - 124
Chloromethane	10.0	14.3	143	2.42	30	16 - 163
cis-1,2-Dichloroethylene	10.0	11.8	118	3.98	30	76 - 125
cis-1,3-Dichloropropylene	10.0	11.9	119	8.29	30	58 - 131

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260C

KMW-MW-4R

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-MSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL
Source Sample Name: KMW-MW-4R

COMPOUND	SPIKE ADDED ppb	MSD CONCENTRATION ppb	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Cyclohexane	10.0	12.8	128	1.58	30	70 - 130
Dibromochloromethane	10.0	12.8	128	9.06	30	71 - 129
Dichlorodifluoromethane	10.0	17.3	173 *	6.63	30	30 - 147
Ethyl Benzene	10.0	12.0	120	6.19	30	72 - 128
Isopropylbenzene	10.0	11.5	115	8.25	30	66 - 139
Methyl acetate	10.0	9.83	98.3	1.23	30	10 - 200
Methyl tert-butyl ether (MTBE)	10.0	11.6	116	4.48	30	75 - 128
Methylcyclohexane	10.0	12.4	124	4.69	30	70 - 130
Methylene chloride	10.0	12.3	123	2.39	30	57 - 128
o-Xylene	10.0	12.0	120	7.72	30	69 - 126
p- & m- Xylenes	20.0	23.6	116	3.94	30	67 - 130
Styrene	10.0	12.2	122	4.71	30	69 - 125
Tetrachloroethylene	10.0	14.0	104	4.01	30	64 - 139
Toluene	10.0	12.0	120	7.27	30	76 - 123
trans-1,2-Dichloroethylene	10.0	12.4	124	0.483	30	79 - 131
trans-1,3-Dichloropropylene	10.0	11.6	116	5.97	30	55 - 130
Trichloroethylene	10.0	11.8	118	3.87	30	53 - 145
Trichlorofluoromethane	10.0	13.1	131	3.52	30	61 - 142
Vinyl Chloride	10.0	12.8	128	1.18	30	31 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water		
Batch:	BL91221	Laboratory ID:	BL91221-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	12.0	120	78 - 136
1,1,2,2-Tetrachloroethane	10.0	10.3	103	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.8	118	54 - 165
1,1,2-Trichloroethane	10.0	10.2	102	82 - 123
1,1-Dichloroethane	10.0	10.8	108	82 - 129
1,1-Dichloroethylene	10.0	11.8	118	68 - 138
1,2,3-Trichlorobenzene	10.0	8.87	88.7	76 - 136
1,2,4-Trichlorobenzene	10.0	9.17	91.7	76 - 137
1,2-Dibromo-3-chloropropane	10.0	9.96	99.6	45 - 147
1,2-Dibromoethane	10.0	10.1	101	83 - 124
1,2-Dichlorobenzene	10.0	9.96	99.6	79 - 123
1,2-Dichloroethane	10.0	11.2	112	73 - 132
1,2-Dichloropropane	10.0	10.2	102	78 - 126
1,3-Dichlorobenzene	10.0	10.0	100	86 - 122
1,4-Dichlorobenzene	10.0	10.1	101	85 - 124
2-Butanone	10.0	11.8	118	49 - 152
2-Hexanone	10.0	11.3	113	51 - 146
4-Methyl-2-pentanone	10.0	12.0	120	57 - 145
Acetone	10.0	9.54	95.4	14 - 150
Benzene	10.0	11.4	114	85 - 126
Bromochloromethane	10.0	10.8	108	77 - 128
Bromodichloromethane	10.0	10.6	106	79 - 128
Bromoform	10.0	10.1	101	78 - 133
Bromomethane	10.0	15.1	151	43 - 168
Carbon disulfide	10.0	12.0	120	68 - 146
Carbon tetrachloride	10.0	11.3	113	77 - 141
Chlorobenzene	10.0	10.4	104	88 - 120
Chloroethane	10.0	12.7	127	65 - 136
Chloroform	10.0	10.9	109	82 - 128
Chloromethane	10.0	15.5	155	43 - 155

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-BS1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	11.2	112	83 - 129
cis-1,3-Dichloropropylene	10.0	11.3	113	80 - 131
Cyclohexane	10.0	11.9	119	63 - 149
Dibromochloromethane	10.0	11.4	114	80 - 130
Dichlorodifluoromethane	10.0	21.9	219 *	44 - 144
Ethyl Benzene	10.0	10.8	108	80 - 131
Isopropylbenzene	10.0	10.3	103	76 - 140
Methyl acetate	10.0	11.0	110	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11.4	114	76 - 135
Methylcyclohexane	10.0	11.3	113	72 - 143
Methylene chloride	10.0	11.6	116	55 - 137
o-Xylene	10.0	11.0	110	78 - 130
p- & m- Xylenes	20.0	21.6	108	77 - 133
Styrene	10.0	10.9	109	67 - 132
Tetrachloroethylene	10.0	9.05	90.5	82 - 131
Toluene	10.0	11.0	110	80 - 127
trans-1,2-Dichloroethylene	10.0	12.1	121	80 - 132
trans-1,3-Dichloropropylene	10.0	11.1	111	78 - 131
Trichloroethylene	10.0	10.4	104	82 - 128
Trichlorofluoromethane	10.0	12.2	122	67 - 139
Vinyl Chloride	10.0	13.1	131	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	10.7	107	10.9	30	78 - 136
1,1,2,2-Tetrachloroethane	10.0	10.2	102	1.27	30	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.7	107	9.49	30	54 - 165
1,1,2-Trichloroethane	10.0	9.45	94.5	7.63	30	82 - 123
1,1-Dichloroethane	10.0	10.6	106	2.24	30	82 - 129
1,1-Dichloroethylene	10.0	10.7	107	10.2	30	68 - 138
1,2,3-Trichlorobenzene	10.0	8.80	88.0	0.792	30	76 - 136
1,2,4-Trichlorobenzene	10.0	9.09	90.9	0.876	30	76 - 137
1,2-Dibromo-3-chloropropane	10.0	9.37	93.7	6.10	30	45 - 147
1,2-Dibromoethane	10.0	9.65	96.5	4.85	30	83 - 124
1,2-Dichlorobenzene	10.0	9.87	98.7	0.908	30	79 - 123
1,2-Dichloroethane	10.0	0.590	5.90 *	180 *	30	73 - 132
1,2-Dichloropropane	10.0	9.69	96.9	5.32	30	78 - 126
1,3-Dichlorobenzene	10.0	9.78	97.8	2.42	30	86 - 122
1,4-Dichlorobenzene	10.0	10.1	101	0.396	30	85 - 124
2-Butanone	10.0	11.6	116	1.62	30	49 - 152
2-Hexanone	10.0	11.0	110	2.88	30	51 - 146
4-Methyl-2-pentanone	10.0	10.8	108	10.2	30	57 - 145
Acetone	10.0	8.29	82.9	14.0	30	14 - 150
Benzene	10.0	10.3	103	9.87	30	85 - 126
Bromochloromethane	10.0	10.4	104	3.68	30	77 - 128
Bromodichloromethane	10.0	9.97	99.7	5.84	30	79 - 128
Bromoform	10.0	9.37	93.7	7.70	30	78 - 133
Bromomethane	10.0	16.5	165	9.24	30	43 - 168
Carbon disulfide	10.0	11.5	115	4.24	30	68 - 146
Carbon tetrachloride	10.0	10.7	107	5.43	30	77 - 141
Chlorobenzene	10.0	10.4	104	0.0957	30	88 - 120
Chloroethane	10.0	12.3	123	3.13	30	65 - 136
Chloroform	10.0	10.7	107	1.58	30	82 - 128
Chloromethane	10.0	14.0	140	10.5	30	43 - 155

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-BSD1
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	11.1	111	1.61	30	83 - 129
cis-1,3-Dichloropropylene	10.0	10.5	105	7.71	30	80 - 131
Cyclohexane	10.0	11.4	114	4.12	30	63 - 149
Dibromochloromethane	10.0	10.4	104	9.63	30	80 - 130
Dichlorodifluoromethane	10.0	21.3	213 *	2.54	30	44 - 144
Ethyl Benzene	10.0	10.2	102	5.23	30	80 - 131
Isopropylbenzene	10.0	10.0	100	2.86	30	76 - 140
Methyl acetate	10.0	9.57	95.7	13.6	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11.2	112	1.15	30	76 - 135
Methylcyclohexane	10.0	10.7	107	6.09	30	72 - 143
Methylene chloride	10.0	11.2	112	3.16	30	55 - 137
o-Xylene	10.0	10.9	109	1.55	30	78 - 130
p- & m- Xylenes	20.0	20.4	102	5.77	30	77 - 133
Styrene	10.0	10.4	104	5.07	30	67 - 132
Tetrachloroethylene	10.0	9.09	90.9	0.441	30	82 - 131
Toluene	10.0	10.3	103	6.49	30	80 - 127
trans-1,2-Dichloroethylene	10.0	11.0	110	9.68	30	80 - 132
trans-1,3-Dichloropropylene	10.0	11.1	111	0.0902	30	78 - 131
Trichloroethylene	10.0	10.7	107	1.99	30	82 - 128
Trichlorofluoromethane	10.0	11.3	113	7.15	30	67 - 139
Vinyl Chloride	10.0	12.3	123	6.38	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water		
Batch:	BL91221	Laboratory ID:	BL91221-BS2
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	10.0	10.9	109	78 - 136
1,1,2,2-Tetrachloroethane	10.0	10.2	102	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.1	111	54 - 165
1,1,2-Trichloroethane	10.0	9.51	95.1	82 - 123
1,1-Dichloroethane	10.0	10.1	101	82 - 129
1,1-Dichloroethylene	10.0	10.8	108	68 - 138
1,2,3-Trichlorobenzene	10.0	9.09	90.9	76 - 136
1,2,4-Trichlorobenzene	10.0	9.36	93.6	76 - 137
1,2-Dibromo-3-chloropropane	10.0	9.30	93.0	45 - 147
1,2-Dibromoethane	10.0	9.70	97.0	83 - 124
1,2-Dichlorobenzene	10.0	9.98	99.8	79 - 123
1,2-Dichloroethane	10.0	10.3	103	73 - 132
1,2-Dichloropropane	10.0	9.90	99.0	78 - 126
1,3-Dichlorobenzene	10.0	9.96	99.6	86 - 122
1,4-Dichlorobenzene	10.0	9.94	99.4	85 - 124
2-Butanone	10.0	7.91	79.1	49 - 152
2-Hexanone	10.0	10.3	103	51 - 146
4-Methyl-2-pentanone	10.0	11.1	111	57 - 145
Acetone	10.0	8.10	81.0	14 - 150
Benzene	10.0	10.5	105	85 - 126
Bromochloromethane	10.0	9.55	95.5	77 - 128
Bromodichloromethane	10.0	10.3	103	79 - 128
Bromoform	10.0	9.42	94.2	78 - 133
Bromomethane	10.0	16.2	162	43 - 168
Carbon disulfide	10.0	10.9	109	68 - 146
Carbon tetrachloride	10.0	10.3	103	77 - 141
Chlorobenzene	10.0	9.90	99.0	88 - 120
Chloroethane	10.0	12.2	122	65 - 136
Chloroform	10.0	9.94	99.4	82 - 128
Chloromethane	10.0	14.1	141	43 - 155

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Matrix: Water
Batch: BL91221
Laboratory ID: BL91221-BS2
Preparation: EPA 5030B
Initial/Final: 25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
cis-1,2-Dichloroethylene	10.0	10.6	106	83 - 129
cis-1,3-Dichloropropylene	10.0	10.6	106	80 - 131
Cyclohexane	10.0	11.0	110	63 - 149
Dibromochloromethane	10.0	11.0	110	80 - 130
Dichlorodifluoromethane	10.0	20.0	200 *	44 - 144
Ethyl Benzene	10.0	10.4	104	80 - 131
Isopropylbenzene	10.0	10.2	102	76 - 140
Methyl acetate	10.0	14.2	142 *	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10.5	105	76 - 135
Methylcyclohexane	10.0	10.9	109	72 - 143
Methylene chloride	10.0	10.7	107	55 - 137
o-Xylene	10.0	10.5	105	78 - 130
p- & m- Xylenes	20.0	20.7	103	77 - 133
Styrene	10.0	10.5	105	67 - 132
Tetrachloroethylene	10.0	8.56	85.6	82 - 131
Toluene	10.0	10.6	106	80 - 127
trans-1,2-Dichloroethylene	10.0	11.0	110	80 - 132
trans-1,3-Dichloropropylene	10.0	10.7	107	78 - 131
Trichloroethylene	10.0	10.3	103	82 - 128
Trichlorofluoromethane	10.0	11.3	113	67 - 139
Vinyl Chloride	10.0	11.8	118	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM IV **PREPARATION BATCH SUMMARY**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Batch: BL91221 Batch Matrix: Water Preparation: EPA 5030B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
KMW-MW-4R	19L0677-01	V737517.D	12/22/19 07:30	
KMW-MW-11R	19L0677-02	V737518.D	12/22/19 07:30	
KMW-MW-2S	19L0677-03	V737519.D	12/22/19 07:30	
KMW-MW-1S	19L0677-04	V737520.D	12/22/19 07:30	
KMW-PW	19L0677-05	V737521.D	12/22/19 07:30	
KMW-FD	19L0677-06	V737522.D	12/22/19 07:30	
KMW-EB	19L0677-07	V737523.D	12/22/19 07:30	
KMW-TB	19L0677-08	V737524.D	12/22/19 07:30	
Blank	BL91221-BLK1	V737511.D	12/22/19 07:30	
LCS	BL91221-BS1	V737506.D	12/22/19 07:30	
LCS	BL91221-BS2	V737508.D	12/22/19 07:30	
LCS Dup	BL91221-BSD1	V737509.D	12/22/19 07:30	
LCS Dup	BL91221-BSD1	V737507.D	12/22/19 07:30	
KMW-MW-4R	BL91221-MS1	V737525.D	12/22/19 07:30	
KMW-MW-4R	BL91221-MSD1	V737526.D	12/22/19 07:30	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	BL91221-BLK1	File ID:	V737511.D
Prepared:	12/22/19 07:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	12/22/19 17:34	Instrument:	MSVOA7		
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.500	U
79-00-5	1,1,2-Trichloroethane	0.500	U
75-34-3	1,1-Dichloroethane	0.500	U
75-35-4	1,1-Dichloroethylene	0.500	U
87-61-6	1,2,3-Trichlorobenzene	0.500	U
120-82-1	1,2,4-Trichlorobenzene	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	0.500	U
106-93-4	1,2-Dibromoethane	0.500	U
95-50-1	1,2-Dichlorobenzene	0.500	U
107-06-2	1,2-Dichloroethane	0.500	U
78-87-5	1,2-Dichloropropane	0.500	U
541-73-1	1,3-Dichlorobenzene	0.500	U
106-46-7	1,4-Dichlorobenzene	0.500	U
78-93-3	2-Butanone	0.500	U
591-78-6	2-Hexanone	0.500	U
108-10-1	4-Methyl-2-pentanone	0.500	U
67-64-1	Acetone	2.00	U
71-43-2	Benzene	0.500	U
74-97-5	Bromochloromethane	0.500	U
75-27-4	Bromodichloromethane	0.500	U
75-25-2	Bromoform	0.500	U
74-83-9	Bromomethane	0.500	U
75-15-0	Carbon disulfide	0.500	U
56-23-5	Carbon tetrachloride	0.500	U
108-90-7	Chlorobenzene	0.500	U
75-00-3	Chloroethane	0.500	U
67-66-3	Chloroform	0.500	U
74-87-3	Chloromethane	0.500	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	BL91221-BLK1	File ID:	V737511.D
Prepared:	12/22/19 07:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	12/22/19 17:34	Instrument:	MSVOA7		
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021

CAS NO.	COMPOUND	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	0.500	U
110-82-7	Cyclohexane	0.500	U
124-48-1	Dibromochloromethane	0.500	U
75-71-8	Dichlorodifluoromethane	0.500	U
100-41-4	Ethyl Benzene	0.500	U
98-82-8	Isopropylbenzene	0.500	U
79-20-9	Methyl acetate	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.500	U
108-87-2	Methylcyclohexane	0.500	U
75-09-2	Methylene chloride	2.00	U
95-47-6	o-Xylene	0.500	U
179601-23-1	p- & m- Xylenes	1.00	U
100-42-5	Styrene	0.500	U
127-18-4	Tetrachloroethylene	0.500	U
108-88-3	Toluene	0.500	U
156-60-5	trans-1,2-Dichloroethylene	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	0.500	U
79-01-6	Trichloroethylene	0.500	U
75-69-4	Trichlorofluoromethane	0.500	U
75-01-4	Vinyl Chloride	0.500	U
1330-20-7	Xylenes, Total	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.27	92.7	69 - 130	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	100926	11.843	124396	11.843	
ISTD: Chlorobenzene-d5	316548	8.855	338633	8.855	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	BL91221-BLK1	File ID:	V737511.D
Prepared:	12/22/19 07:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	12/22/19 17:34	Instrument:	MSVOA7		
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	71503	5.822	72154	5.825	

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00 TASK 0600 Katonah Municipal Well
Lab File ID:	V736080.D	Injection Date:	10/18/19
Instrument ID:	MSVOA7	Injection Time:	14:48
Sequence:	Y9J2114	Lab Sample ID:	Y9J2114-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.3	PASS
75	30 - 60% of 95	57.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.54	PASS
173	Less than 2% of 174	0.451	PASS
174	50 - 100% of 95	99.2	PASS
175	5 - 9% of 174	7.98	PASS
176	95 - 101% of 174	95.8	PASS
177	5 - 9% of 176	5.76	PASS

FORM V **MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK**

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00 TASK 0600 Katonah Municipal Well
Lab File ID:	V737504.D	Injection Date:	12/22/19
Instrument ID:	MSVOA7	Injection Time:	13:57
Sequence:	Y9L2401	Lab Sample ID:	Y9L2401-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.4	PASS
75	30 - 60% of 95	57.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.71	PASS
173	Less than 2% of 174	0.264	PASS
174	50 - 100% of 95	90.4	PASS
175	5 - 9% of 174	8.47	PASS
176	95 - 101% of 174	95.2	PASS
177	5 - 9% of 176	7.74	PASS

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00 TASK 0600 Katonah Municipal Well
Sequence:	Y9J2114	Instrument:	MSVOA7
		Calibration:	YJ90021

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9J2114-TUN1	V736080.D	10/18/19 14:48
Cal Standard	Y9J2114-CAL1	V736081.D	10/18/19 15:18
Cal Standard	Y9J2114-CAL2	V736082.D	10/18/19 15:48
Cal Standard	Y9J2114-CAL3	V736083.D	10/18/19 16:17
Cal Standard	Y9J2114-CAL4	V736084.D	10/18/19 16:47
Cal Standard	Y9J2114-CAL5	V736085.D	10/18/19 17:17
Cal Standard	Y9J2114-CAL6	V736086.D	10/18/19 17:47
Cal Standard	Y9J2114-CAL7	V736087.D	10/18/19 18:16
Secondary Cal Check	Y9J2114-SCV1	V736093.D	10/18/19 21:15

FORM V

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Sequence: Y9L2401
Instrument: MSVOA7
Calibration: YJ90021

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	Y9L2401-TUN1	V737504.D	12/22/19 13:57
Calibration Check	Y9L2401-CCV1	V737505.D	12/22/19 14:33
LCS	BL91221-BS1	V737506.D	12/22/19 15:05
LCS Dup	BL91221-BSD1	V737507.D	12/22/19 15:35
LCS Dup	BL91221-BSD1	V737509.D	12/22/19 15:35
LCS	BL91221-BS2	V737508.D	12/22/19 16:04
Blank	BL91221-BLK1	V737511.D	12/22/19 17:34
KMW-MW-4R	19L0677-01	V737517.D	12/22/19 20:32
KMW-MW-11R	19L0677-02	V737518.D	12/22/19 21:01
KMW-MW-2S	19L0677-03	V737519.D	12/22/19 21:31
KMW-MW-1S	19L0677-04	V737520.D	12/22/19 22:00
KMW-PW	19L0677-05	V737521.D	12/22/19 22:30
KMW-FD	19L0677-06	V737522.D	12/22/19 23:00
KMW-EB	19L0677-07	V737523.D	12/22/19 23:29
KMW-TB	19L0677-08	V737524.D	12/22/19 23:59
KMW-MW-4R	BL91221-MS1	V737525.D	12/23/19 00:28
KMW-MW-4R	BL91221-MSD1	V737526.D	12/23/19 00:58

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well
Sequence: Y9J2114 Instrument: MSVOA7
Calibration: YJ90021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y9J2114-CAL1)			Lab File ID: V736081.D			Analyzed: 10/18/19 15:18			
ISTD: Fluorobenzene	47917	5.825	51568	5.82	93	50 - 200	0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	209829	8.858	229715	8.855	91	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	70657	11.843	82687	11.846	85	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y9J2114-CAL2)			Lab File ID: V736082.D			Analyzed: 10/18/19 15:48			
ISTD: Fluorobenzene	48847	5.822	51568	5.82	95	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	211351	8.855	229715	8.855	92	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	73853	11.843	82687	11.846	89	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y9J2114-CAL3)			Lab File ID: V736083.D			Analyzed: 10/18/19 16:17			
ISTD: Fluorobenzene	50252	5.825	51568	5.82	97	50 - 200	0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	217099	8.855	229715	8.855	95	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	76944	11.843	82687	11.846	93	50 - 200	-0.0030	+/-0.17	
Cal Standard (Y9J2114-CAL4)			Lab File ID: V736084.D			Analyzed: 10/18/19 16:47			
ISTD: Fluorobenzene	51568	5.82	51568	5.82	100	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	229715	8.855	229715	8.855	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	82687	11.846	82687	11.846	100	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J2114-CAL5)			Lab File ID: V736085.D			Analyzed: 10/18/19 17:17			
ISTD: Fluorobenzene	55412	5.825	51568	5.82	107	50 - 200	0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	242185	8.855	229715	8.855	105	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	91273	11.846	82687	11.846	110	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J2114-CAL6)			Lab File ID: V736086.D			Analyzed: 10/18/19 17:47			
ISTD: Fluorobenzene	56918	5.825	51568	5.82	110	50 - 200	0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	259569	8.855	229715	8.855	113	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	102522	11.846	82687	11.846	124	50 - 200	0.0000	+/-0.17	
Cal Standard (Y9J2114-CAL7)			Lab File ID: V736087.D			Analyzed: 10/18/19 18:16			
ISTD: Fluorobenzene	62157	5.822	51568	5.82	121	50 - 200	0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	284361	8.858	229715	8.855	124	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	125296	11.852	82687	11.846	152	50 - 200	0.0060	+/-0.17	
Secondary Cal Check (Y9J2114-SCV1)			Lab File ID: V736093.D			Analyzed: 10/18/19 21:15			
ISTD: Fluorobenzene	63010	5.823	51568	5.82	122	50 - 200	0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	266302	8.858	229715	8.855	116	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	93487	11.846	82687	11.846	113	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Sequence: Y9L2401 Instrument: MSVOA7

Calibration: YJ90021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (Y9L2401-CCV1)			Lab File ID: V737505.D			Analyzed: 12/22/19 14:33			
ISTD: Fluorobenzene	72154	5.825				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	338633	8.855				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	124396	11.843				50 - 200		+/-0.17	
LCS (BL91221-BS1)			Lab File ID: V737506.D			Analyzed: 12/22/19 15:05			
ISTD: Fluorobenzene	74942	5.822	72154	5.825	104	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	347000	8.855	338633	8.855	102	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	129630	11.843	124396	11.843	104	50 - 200	0.0000	+/-0.17	
LCS Dup (BL91221-BSD1)			Lab File ID: V737507.D			Analyzed: 12/22/19 15:35			
ISTD: Fluorobenzene	78380	5.823	72154	5.825	109	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	352074	8.855	338633	8.855	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	126853	11.843	124396	11.843	102	50 - 200	0.0000	+/-0.17	
LCS (BL91221-BS2)			Lab File ID: V737508.D			Analyzed: 12/22/19 16:04			
ISTD: Fluorobenzene	78426	5.823	72154	5.825	109	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	350704	8.855	338633	8.855	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	124960	11.843	124396	11.843	100	50 - 200	0.0000	+/-0.17	
Blank (BL91221-BLK1)			Lab File ID: V737511.D			Analyzed: 12/22/19 17:34			
ISTD: Fluorobenzene	71503	5.822	72154	5.825	99	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	316548	8.855	338633	8.855	93	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	100926	11.843	124396	11.843	81	50 - 200	0.0000	+/-0.17	
KMW-MW-4R (19L0677-01)			Lab File ID: V737517.D			Analyzed: 12/22/19 20:32			
ISTD: Fluorobenzene	64219	5.822	72154	5.825	89	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	298652	8.855	338633	8.855	88	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	92581	11.843	124396	11.843	74	50 - 200	0.0000	+/-0.17	
KMW-MW-11R (19L0677-02)			Lab File ID: V737518.D			Analyzed: 12/22/19 21:01			
ISTD: Fluorobenzene	64567	5.82	72154	5.825	89	50 - 200	-0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	289814	8.855	338633	8.855	86	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	94413	11.843	124396	11.843	76	50 - 200	0.0000	+/-0.17	
KMW-MW-2S (19L0677-03)			Lab File ID: V737519.D			Analyzed: 12/22/19 21:31			
ISTD: Fluorobenzene	63333	5.82	72154	5.825	88	50 - 200	-0.0050	+/-0.17	
ISTD: Chlorobenzene-d5	290830	8.855	338633	8.855	86	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	97877	11.843	124396	11.843	79	50 - 200	0.0000	+/-0.17	
KMW-MW-1S (19L0677-04)			Lab File ID: V737520.D			Analyzed: 12/22/19 22:00			
ISTD: Fluorobenzene	63094	5.823	72154	5.825	87	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	289618	8.855	338633	8.855	86	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	96591	11.843	124396	11.843	78	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Sequence: Y9L2401 Instrument: MSVOA7

Calibration: YJ90021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
KMW-PW (19L0677-05)			Lab File ID: V737521.D			Analyzed: 12/22/19 22:30			
ISTD: Fluorobenzene	64503	5.822	72154	5.825	89	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	292058	8.855	338633	8.855	86	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	98419	11.843	124396	11.843	79	50 - 200	0.0000	+/-0.17	
KMW-FD (19L0677-06)			Lab File ID: V737522.D			Analyzed: 12/22/19 23:00			
ISTD: Fluorobenzene	62599	5.822	72154	5.825	87	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	279992	8.855	338633	8.855	83	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	94051	11.843	124396	11.843	76	50 - 200	0.0000	+/-0.17	
KMW-EB (19L0677-07)			Lab File ID: V737523.D			Analyzed: 12/22/19 23:29			
ISTD: Fluorobenzene	63654	5.823	72154	5.825	88	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	296183	8.855	338633	8.855	87	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	100162	11.843	124396	11.843	81	50 - 200	0.0000	+/-0.17	
KMW-TB (19L0677-08)			Lab File ID: V737524.D			Analyzed: 12/22/19 23:59			
ISTD: Fluorobenzene	59312	5.823	72154	5.825	82	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	274113	8.855	338633	8.855	81	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	90777	11.843	124396	11.843	73	50 - 200	0.0000	+/-0.17	
Matrix Spike (BL91221-MS1)			Lab File ID: V737525.D			Analyzed: 12/23/19 00:28			
ISTD: Fluorobenzene	64479	5.823	72154	5.825	89	50 - 200	-0.0020	+/-0.17	
ISTD: Chlorobenzene-d5	303222	8.855	338633	8.855	90	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	116688	11.843	124396	11.843	94	50 - 200	0.0000	+/-0.17	
Matrix Spike Dup (BL91221-MSD1)			Lab File ID: V737526.D			Analyzed: 12/23/19 00:58			
ISTD: Fluorobenzene	67645	5.822	72154	5.825	94	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	302571	8.855	338633	8.855	89	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	113504	11.843	124396	11.843	91	50 - 200	0.0000	+/-0.17	

HOLDING TIME SUMMARY

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
KMW-MW-4R	12/16/19 10:45	12/17/19 19:35	12/22/19 07:30	5.86	14.00	12/22/19 20:32	6.41	14.00	
KMW-MW-11R	12/16/19 12:47	12/17/19 19:35	12/22/19 07:30	5.78	14.00	12/22/19 21:01	6.34	14.00	
KMW-MW-2S	12/16/19 13:54	12/17/19 19:35	12/22/19 07:30	5.73	14.00	12/22/19 21:31	6.32	14.00	
KMW-MW-1S	12/16/19 14:57	12/17/19 19:35	12/22/19 07:30	5.69	14.00	12/22/19 22:00	6.29	14.00	
KMW-PW	12/16/19 15:13	12/17/19 19:35	12/22/19 07:30	5.68	14.00	12/22/19 22:30	6.30	14.00	
KMW-FD	12/16/19 00:00	12/17/19 19:35	12/22/19 07:30	6.31	14.00	12/22/19 23:00	6.96	14.00	
KMW-EB	12/16/19 15:30	12/17/19 19:35	12/22/19 07:30	5.67	14.00	12/22/19 23:29	6.33	14.00	
KMW-TB	12/16/19 00:00	12/17/19 19:35	12/22/19 07:30	6.31	14.00	12/22/19 23:59	7.00	14.00	

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19L0677

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41433.00 TASK 0600 Katonah Municipal V

Matrix: Water **Instrument:** MSVOA7

Analyte	LOD	LOQ	Units
1,1,1-Trichloroethane	0.200	0.500	ug/L
1,1,2,2-Tetrachloroethane	0.200	0.500	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.200	0.500	ug/L
1,1,2-Trichloroethane	0.200	0.500	ug/L
1,1-Dichloroethane	0.200	0.500	ug/L
1,1-Dichloroethylene	0.200	0.500	ug/L
1,2,3-Trichlorobenzene	0.200	0.500	ug/L
1,2,4-Trichlorobenzene	0.200	0.500	ug/L
1,2-Dibromo-3-chloropropane	0.200	0.500	ug/L
1,2-Dibromoethane	0.200	0.500	ug/L
1,2-Dichlorobenzene	0.200	0.500	ug/L
1,2-Dichloroethane	0.200	0.500	ug/L
1,2-Dichloropropane	0.200	0.500	ug/L
1,3-Dichlorobenzene	0.200	0.500	ug/L
1,4-Dichlorobenzene	0.200	0.500	ug/L
2-Butanone	0.200	0.500	ug/L
2-Hexanone	0.200	0.500	ug/L
4-Methyl-2-pentanone	0.200	0.500	ug/L
Acetone	1.00	2.00	ug/L
Benzene	0.200	0.500	ug/L
Bromochloromethane	0.200	0.500	ug/L
Bromodichloromethane	0.200	0.500	ug/L
Bromoform	0.200	0.500	ug/L
Bromomethane	0.200	0.500	ug/L
Carbon disulfide	0.200	0.500	ug/L
Carbon tetrachloride	0.200	0.500	ug/L
Chlorobenzene	0.200	0.500	ug/L
Chloroethane	0.200	0.500	ug/L
Chloroform	0.200	0.500	ug/L
Chloromethane	0.200	0.500	ug/L
cis-1,2-Dichloroethylene	0.200	0.500	ug/L
cis-1,3-Dichloropropylene	0.200	0.500	ug/L
Cyclohexane	0.200	0.500	ug/L
Dibromochloromethane	0.200	0.500	ug/L
Dichlorodifluoromethane	0.200	0.500	ug/L
Ethyl Benzene	0.200	0.500	ug/L

METHOD DETECTION AND REPORTING LIMITS

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19L0677

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41433.00 TASK 0600 Katonah Municipal V

Matrix: Water **Instrument:** MSVOA7

Analyte	LOD	LOQ	Units
Isopropylbenzene	0.200	0.500	ug/L
Methyl acetate	0.200	0.500	ug/L
Methyl tert-butyl ether (MTBE)	0.200	0.500	ug/L
Methylcyclohexane	0.200	0.500	ug/L
Methylene chloride	1.00	2.00	ug/L
o-Xylene	0.200	0.500	ug/L
p- & m- Xylenes	0.500	1.00	ug/L
Styrene	0.200	0.500	ug/L
Tetrachloroethylene	0.200	0.500	ug/L
Toluene	0.200	0.500	ug/L
trans-1,2-Dichloroethylene	0.200	0.500	ug/L
trans-1,3-Dichloropropylene	0.200	0.500	ug/L
Trichloroethylene	0.200	0.500	ug/L
Trichlorofluoromethane	0.200	0.500	ug/L
Vinyl Chloride	0.200	0.500	ug/L
Xylenes, Total	0.600	1.50	ug/L

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

KMW-MW-4R

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-01	File ID:	V737517.D
Sampled:	12/16/19 10:45	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 20:32
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-MW-4R

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-01	File ID:	V737517.D
Sampled:	12/16/19 10:45	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 20:32
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	3.59	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.60	96.0	69 - 130	
SURR: Toluene-d8	10.0	9.94	99.4	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.3	113	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	64219	5.822	72154	5.825	
ISTD: Chlorobenzene-d5	298652	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	92581	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737517.D
Acq On : 22 Dec 2019 8:32 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-01
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 24 09:43:56 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

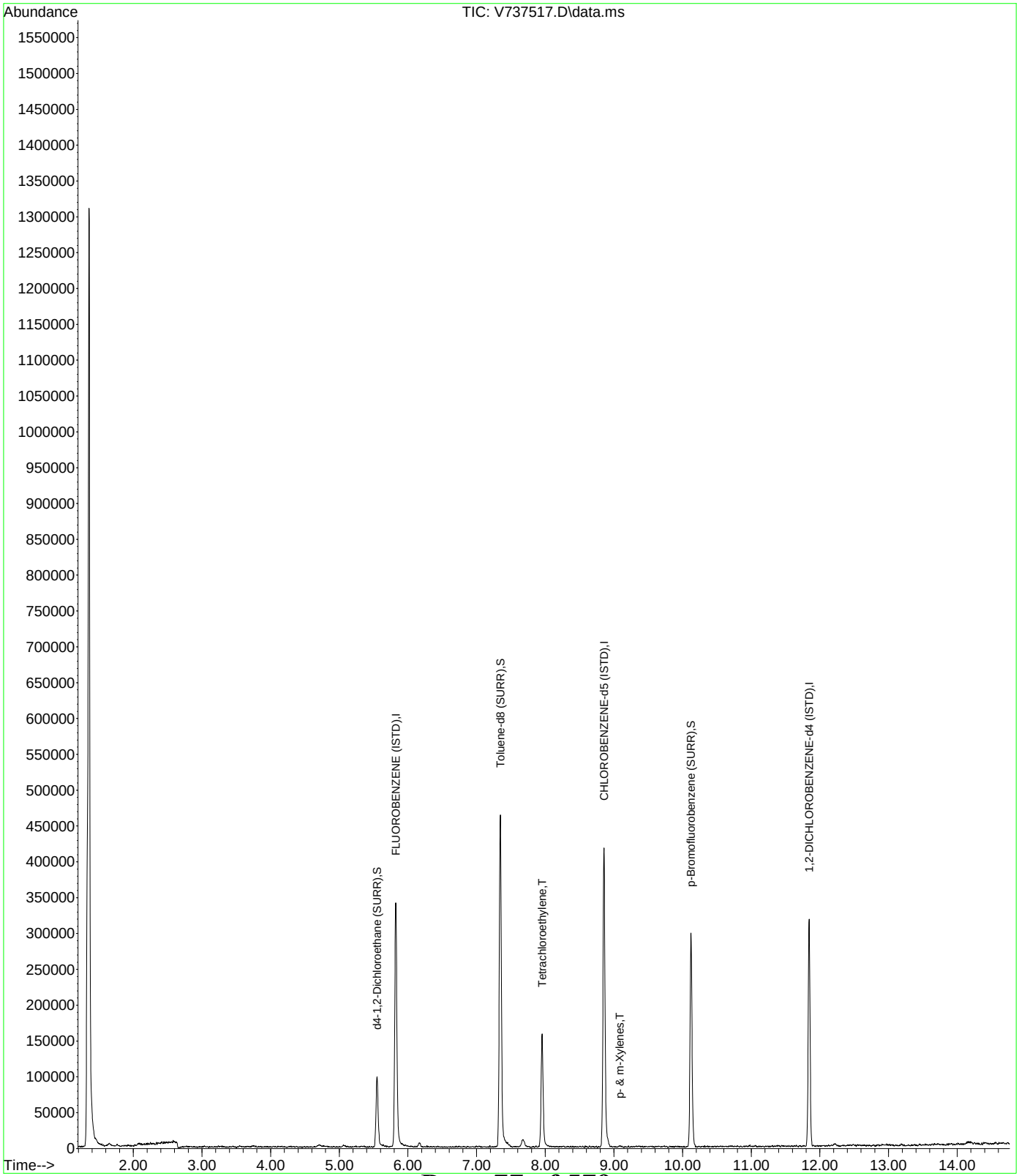
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.822	70	64219	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	298652	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	92581	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	70821	9.60	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.00%				
53) Toluene-d8 (SURR)	7.344	98	382310	9.94	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.40%				
73) p-Bromofluorobenzene (...	10.121	95	105574	11.34	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.40%				
Target Compounds							Qvalue
6) Chloroethane	2.205	64	152	Below Cal			100
52) 4-Methyl-2-Pentanone	7.244	43	76	Below Cal		#	50
59) Tetrachloroethylene	7.954	166	46779	3.59	ppb	#	100
66) p- & m-Xylenes	9.083	91	449	0.46	ppb	#	76
99) 1,2,3-Trichlorobenzene	14.255	180	38	Below Cal		#	1

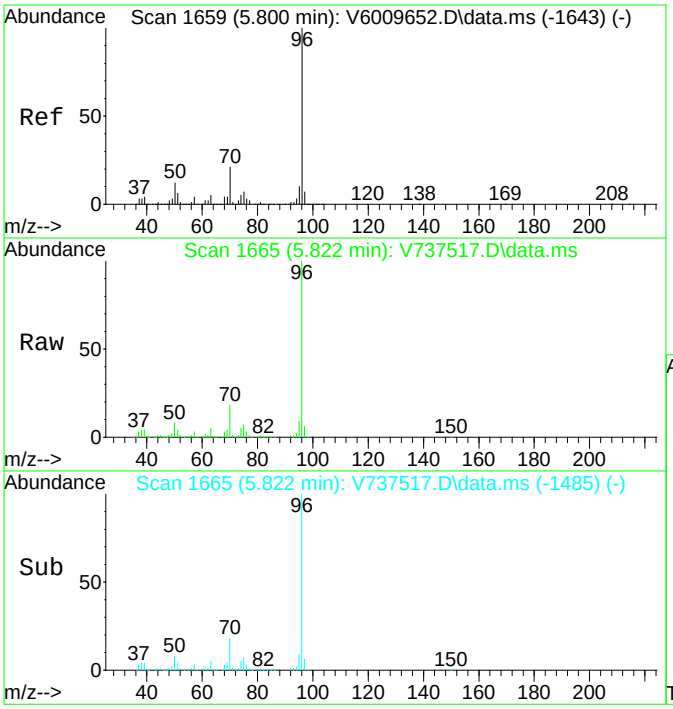
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737517.D
Acq On : 22 Dec 2019 8:32 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-01
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 24 09:43:56 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

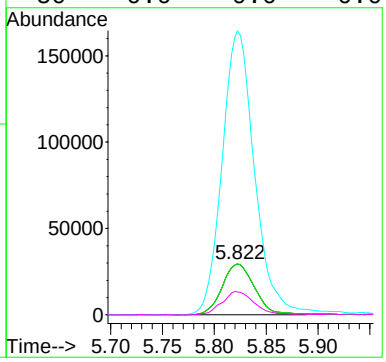


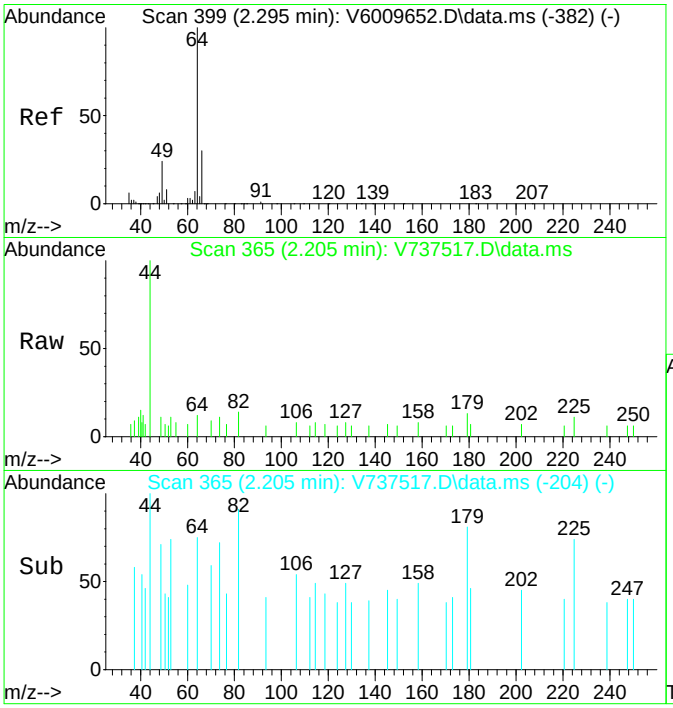


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.000 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion: 70 Resp: 64219

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	561.7	323.6	672.2
50	0.0	0.0	0.0

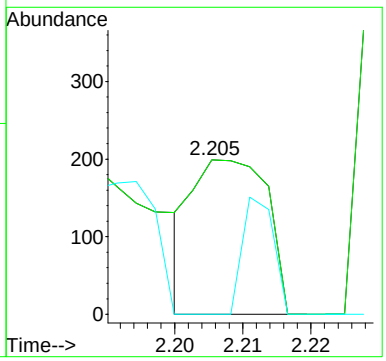


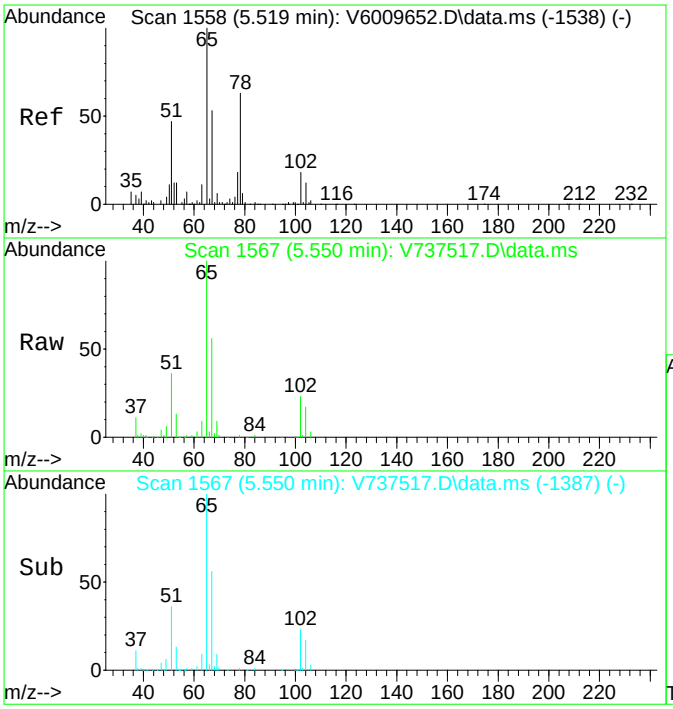


#6
Chloroethane
Concen: Below Cal
RT: 2.205 min Scan# 365
Delta R.T. -0.053 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion: 64 Resp: 152

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	31.6	20.6	42.8

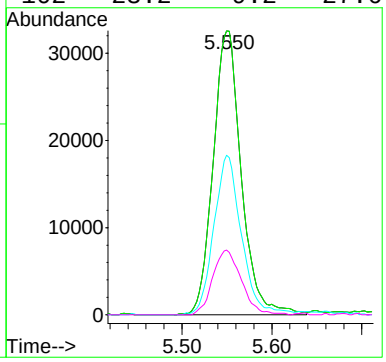


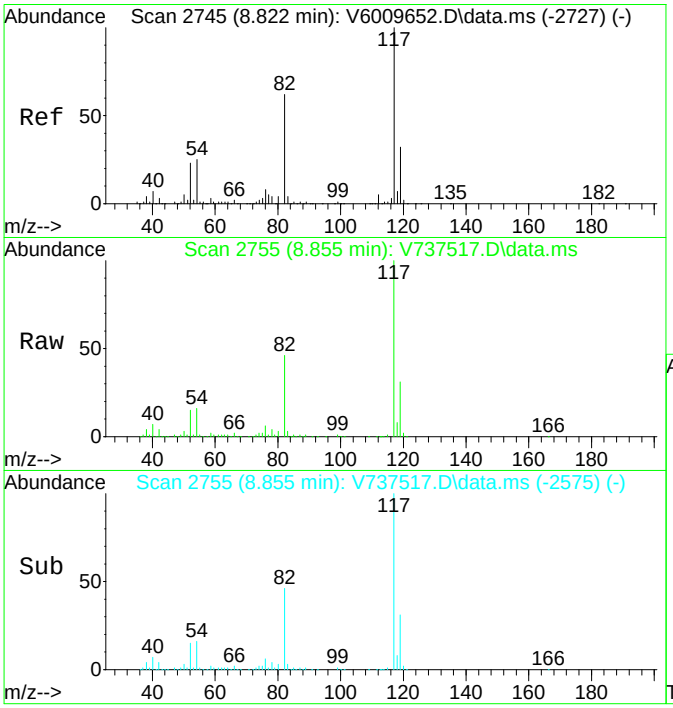


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.60 ppb
RT: 5.550 min Scan# 1567
Delta R.T. -0.000 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion: 65 Resp: 70821

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	55.0	33.0	68.6
102	23.2	9.2	27.6

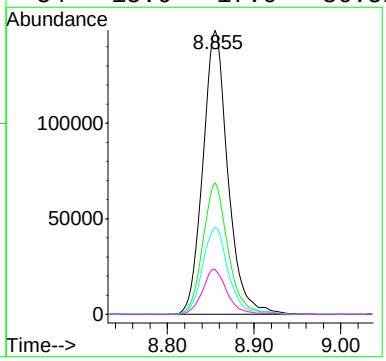


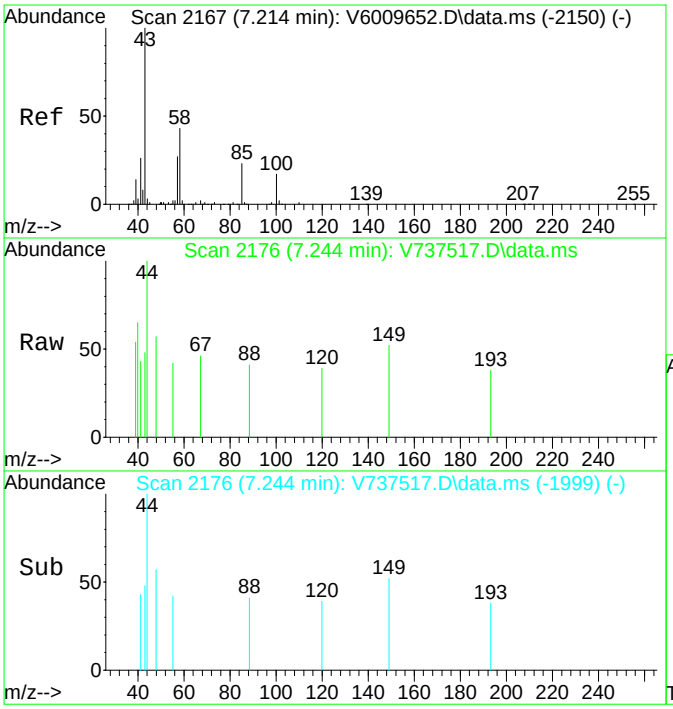


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. -0.000 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion:117 Resp: 298652

Ion	Ratio	Lower	Upper
117	100		
82	46.5	35.9	74.7
119	31.4	20.8	43.2
54	15.6	17.6	36.5#

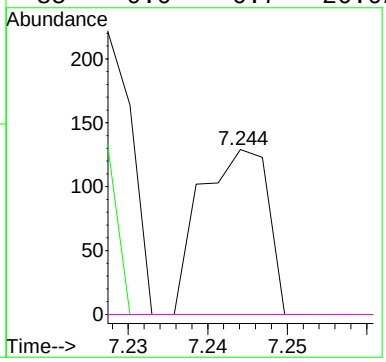


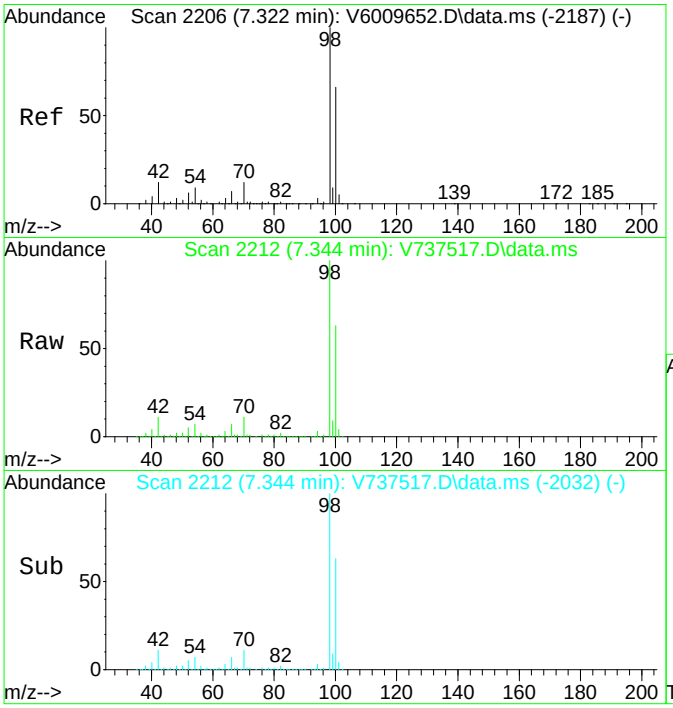


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.244 min Scan# 2176
Delta R.T. -0.008 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion: 43 Resp: 76

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.8	49.4#
100	0.0	5.8	17.3#
85	0.0	6.7	20.0#

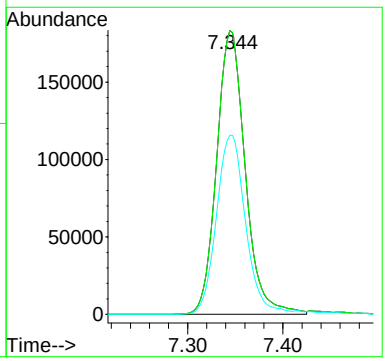


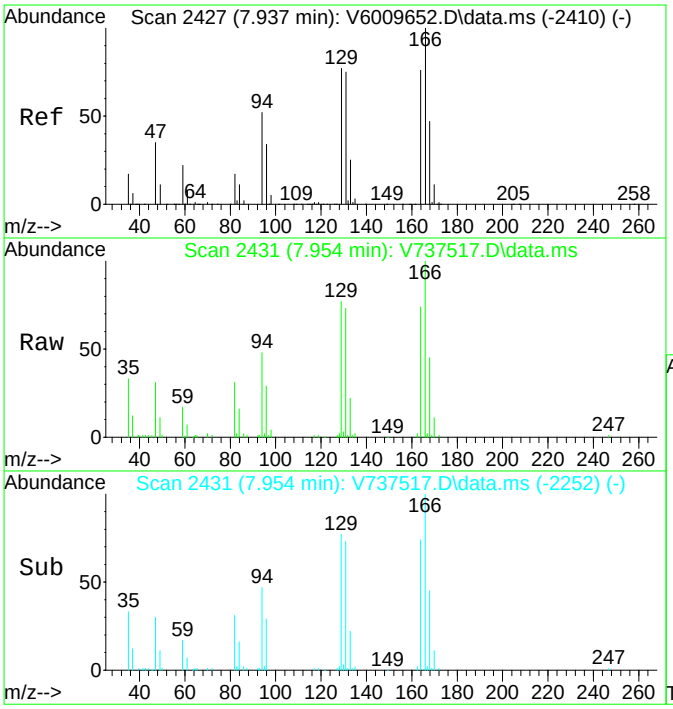


#53
Toluene-d8 (SURR)
Concen: 9.94 ppb
RT: 7.344 min Scan# 2212
Delta R.T. -0.000 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion: 98 Resp: 382310

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.3	43.4	90.2

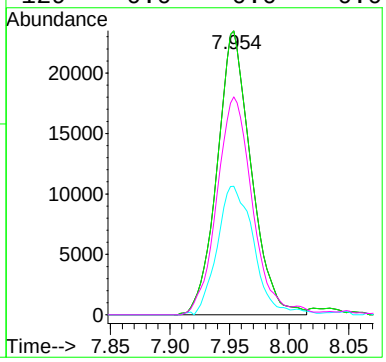


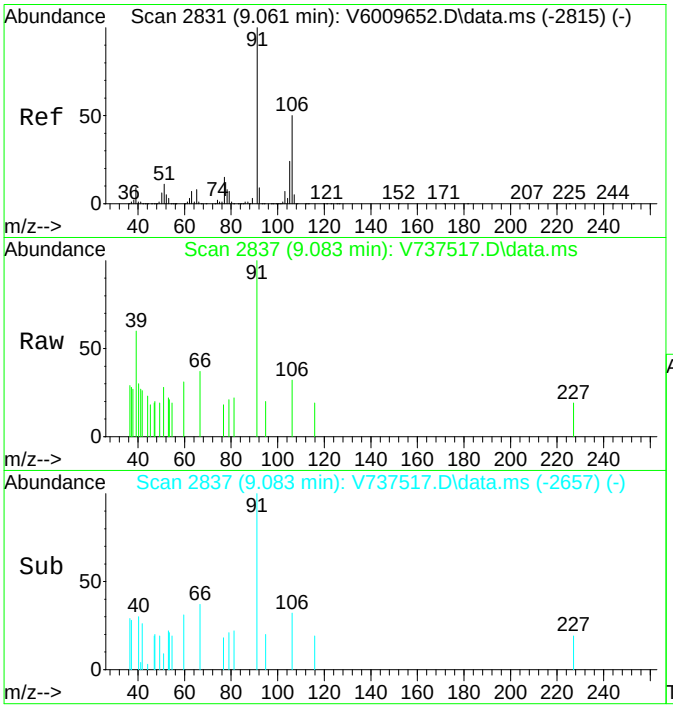


#59
Tetrachloroethylene
Concen: 3.59 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion:166 Resp: 46779

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	48.8	0.0	0.0#
129	0.0	0.0	0.0

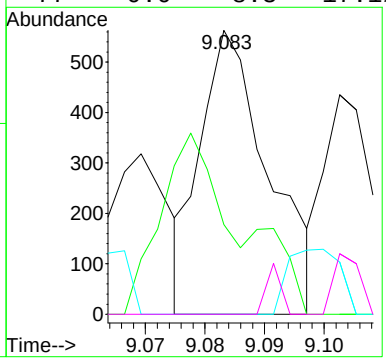


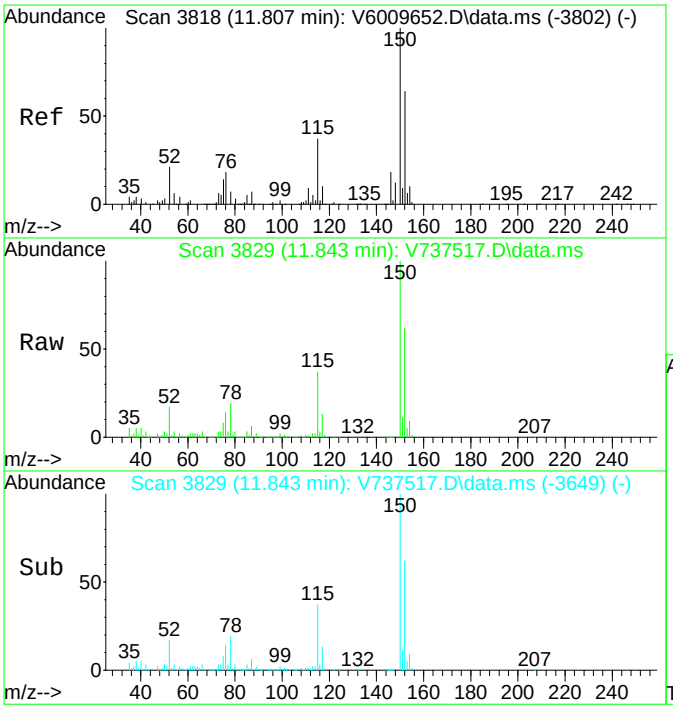


#66
p- & m-Xylenes
Concen: 0.46 ppb
RT: 9.083 min Scan# 2837
Delta R.T. -0.000 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion: 91 Resp: 449

Ion	Ratio	Lower	Upper
91	100		
106	56.8	31.3	65.1
105	0.0	14.2	29.4#
77	0.0	8.3	17.1#

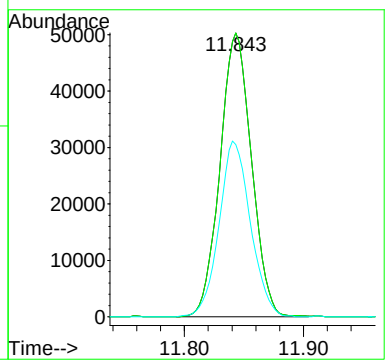


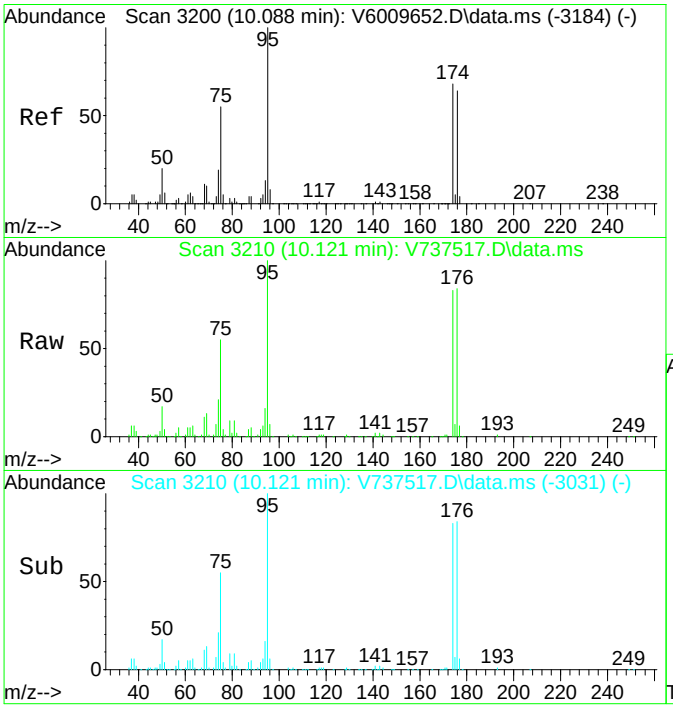


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.000 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion:152 Resp: 92581

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	61.7	33.7	101.0

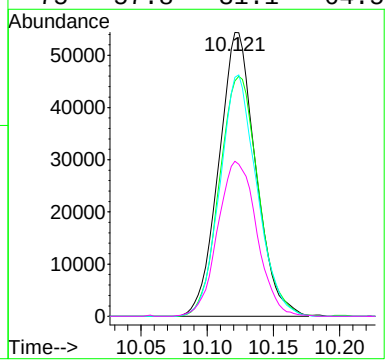


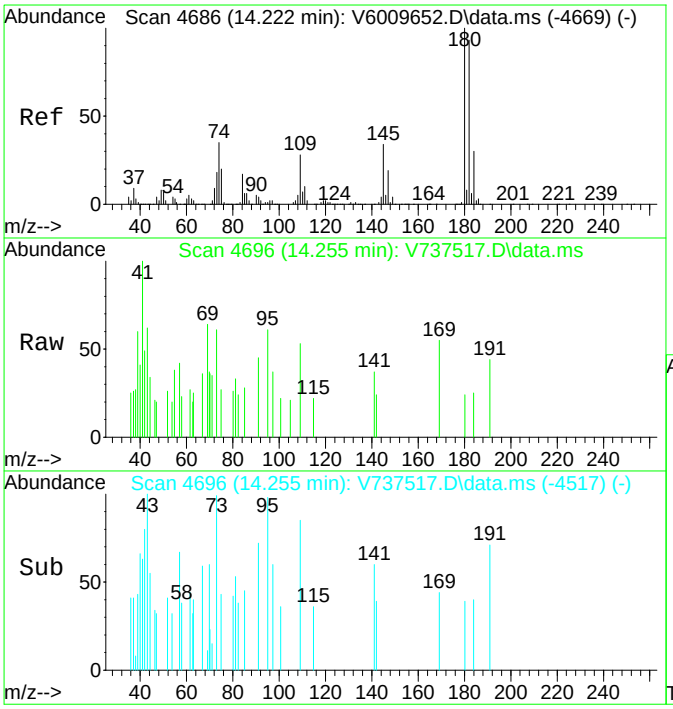


#73
p-Bromofluorobenzene (SURR)
Concen: 11.34 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion: 95 Resp: 105574

Ion	Ratio	Lower	Upper
95	100		
174	88.8	49.1	102.1
176	85.3	47.7	99.1
75	57.8	31.1	64.5

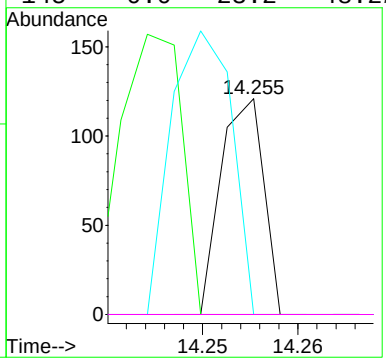




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.255 min Scan# 4696
Delta R.T. -0.003 min
Lab File: V737517.D
Acq: 22 Dec 2019 8:32 pm

Tgt Ion:180 Resp: 38

Ion	Ratio	Lower	Upper
180	100		
182	184.2	62.0	128.8#
74	184.2	18.9	39.1#
145	0.0	23.2	48.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-MW-11R

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-02 File ID: V737518.D

Sampled: 12/16/19 12:47 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 21:01

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-MW-11R

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-02 File ID: V737518.D

Sampled: 12/16/19 12:47 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 21:01

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	1.07	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.29	92.9	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.8	108	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	64567	5.82	72154	5.825	
ISTD: Chlorobenzene-d5	289814	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	94413	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737518.D
Acq On : 22 Dec 2019 9:01 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-02
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 24 09:45:58 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

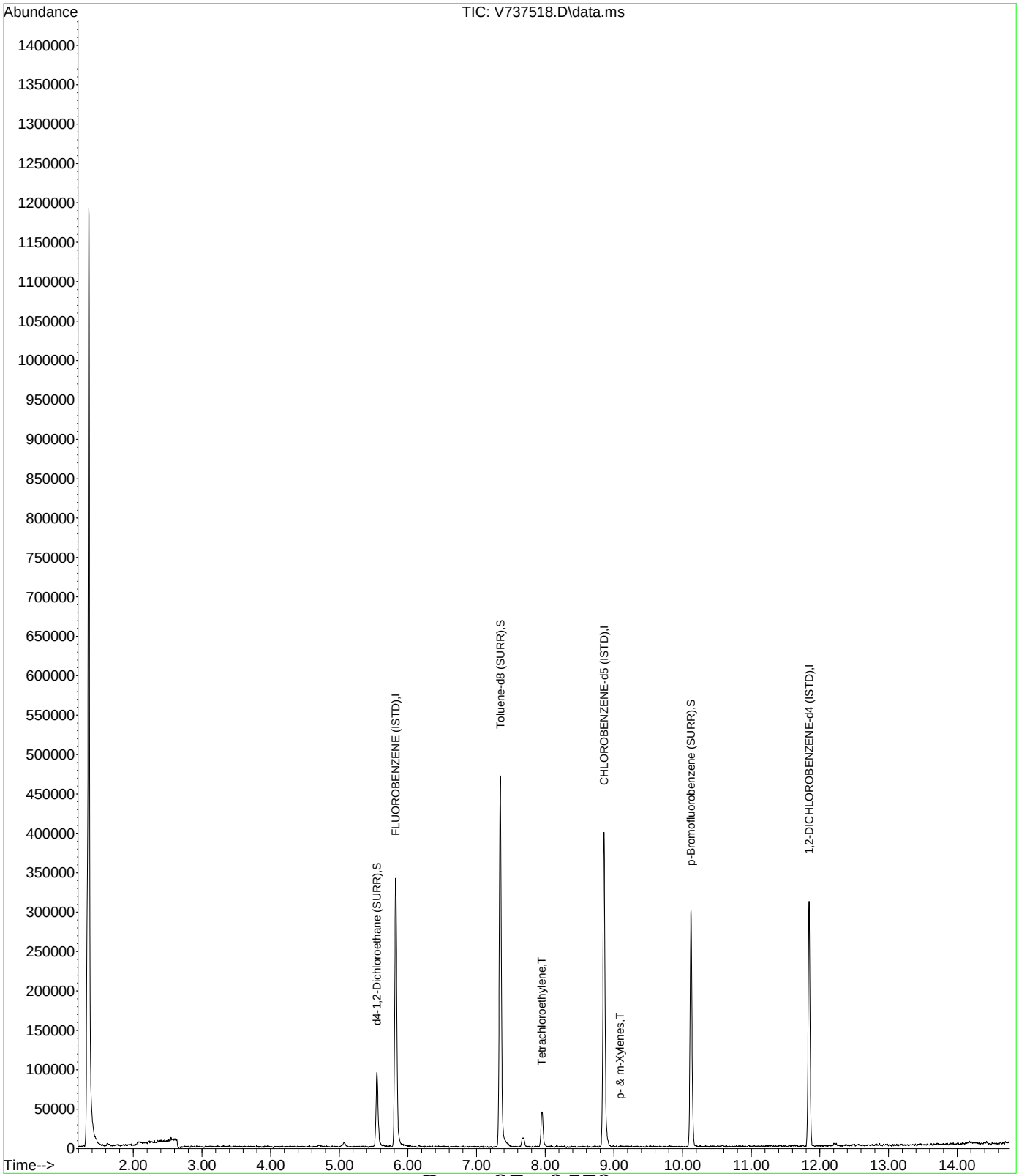
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.820	70	64567	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	289814	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	94413	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.547	65	68965	9.29	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.90%				
53) Toluene-d8 (SURR)	7.345	98	377233	10.11	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.10%				
73) p-Bromofluorobenzene (...	10.121	95	102373	10.79	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.90%				
Target Compounds							Qvalue
6) Chloroethane	2.314	64	156	Below Cal			97
52) 4-Methyl-2-Pentanone	7.255	43	101	Below Cal		#	50
59) Tetrachloroethylene	7.948	166	13540	1.07	ppb	#	100
66) p- & m-Xylenes	9.086	91	420	0.46	ppb	#	83
99) 1,2,3-Trichlorobenzene	14.353	180	102	Below Cal		#	1

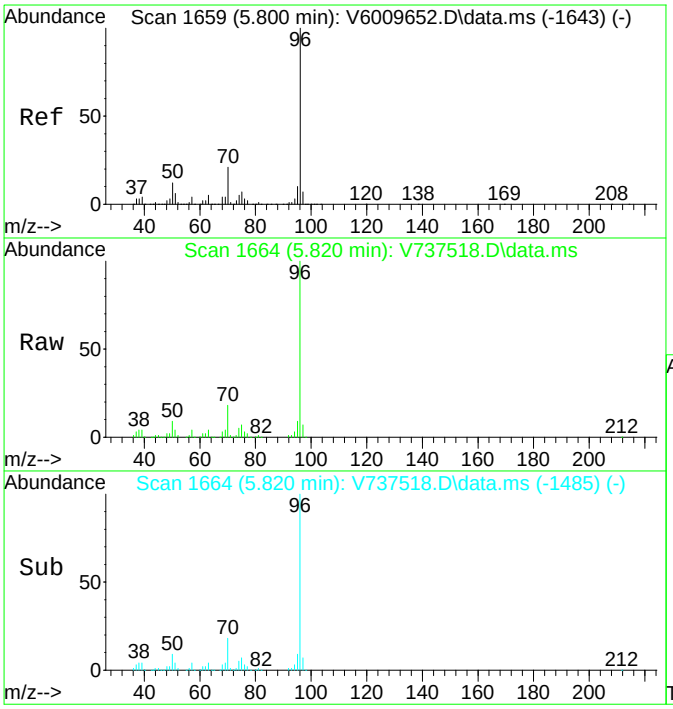
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737518.D
Acq On : 22 Dec 2019 9:01 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-02
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 24 09:45:58 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

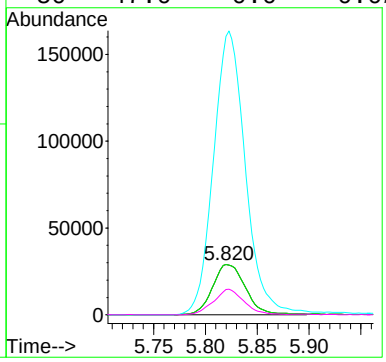


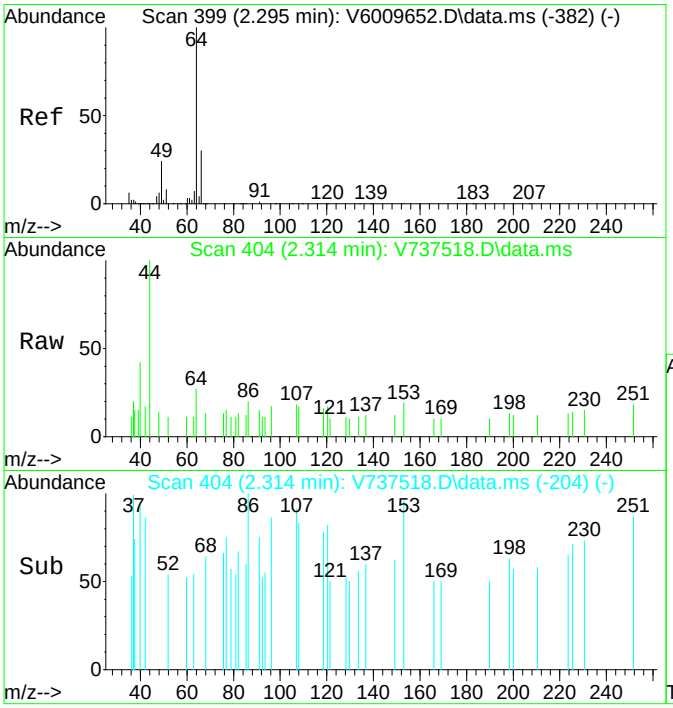


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.820 min Scan# 1664
Delta R.T. -0.002 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion: 70 Resp: 64567

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	545.4	323.6	672.2
50	47.0	0.0	0.0#

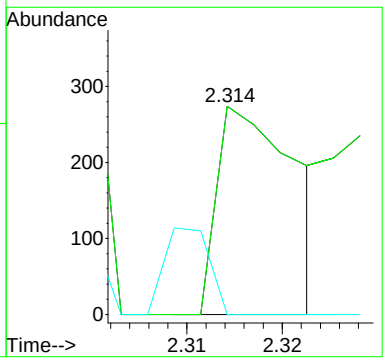


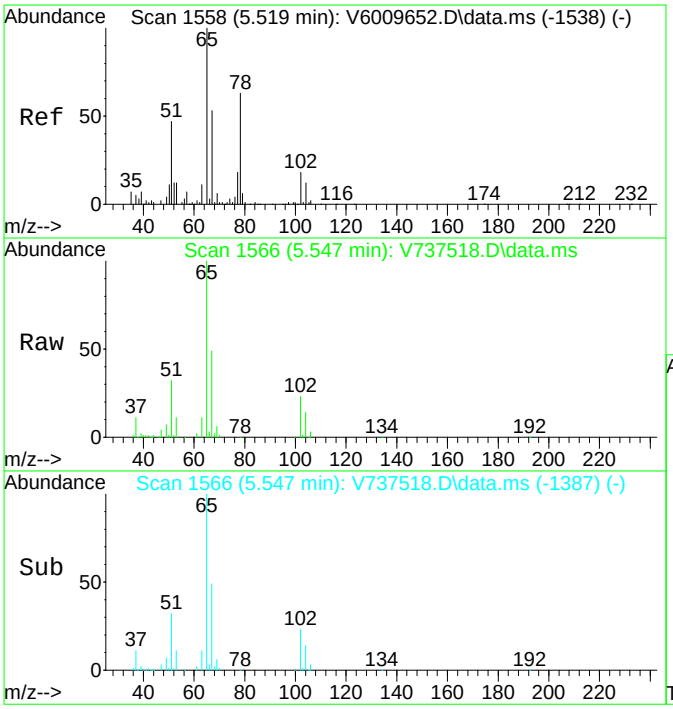


#6
Chloroethane
Concen: Below Cal
RT: 2.314 min Scan# 404
Delta R.T. 0.056 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion: 64 Resp: 156

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	23.7	20.6	42.8

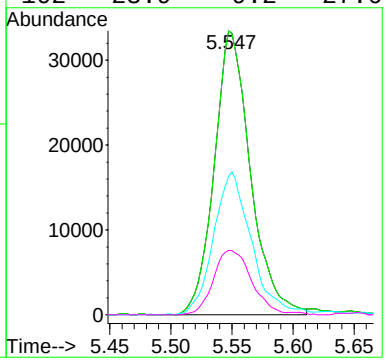


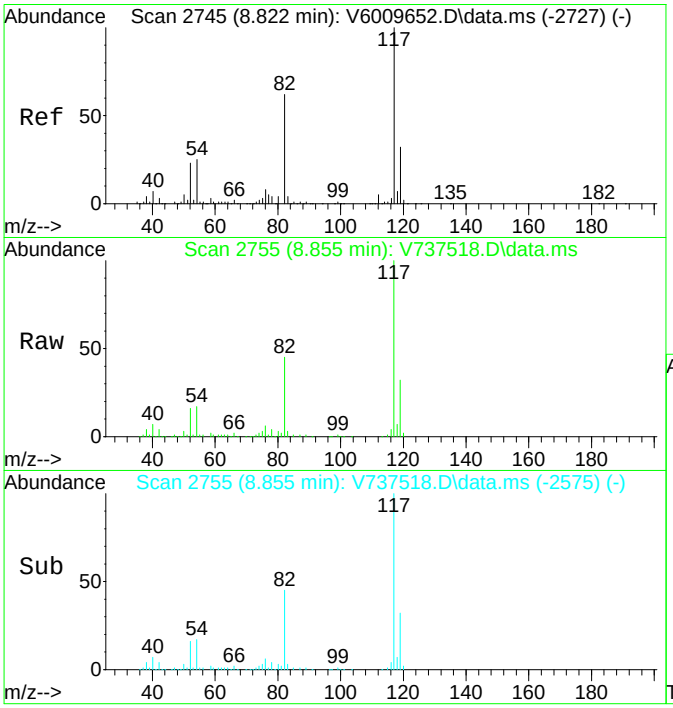


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.29 ppb
RT: 5.547 min Scan# 1566
Delta R.T. -0.003 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion: 65 Resp: 68965

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	52.6	33.0	68.6
102	23.9	9.2	27.6

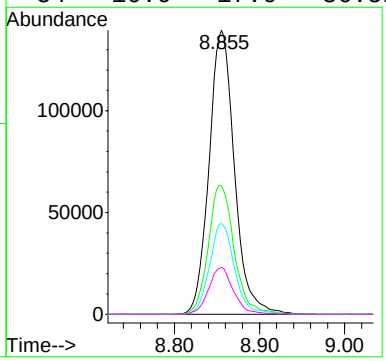


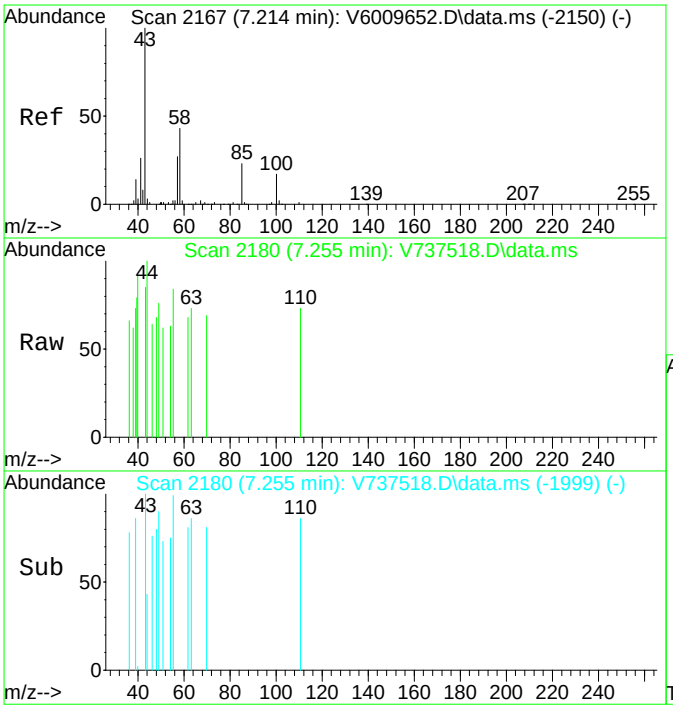


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion:117 Resp: 289814

Ion	Ratio	Lower	Upper
117	100		
82	46.3	35.9	74.7
119	31.4	20.8	43.2
54	16.0	17.6	36.5#

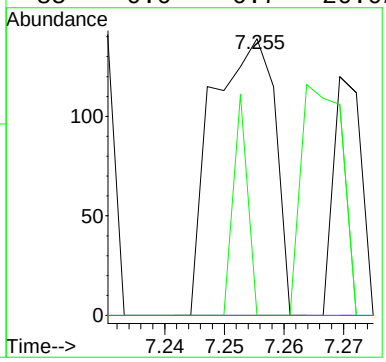


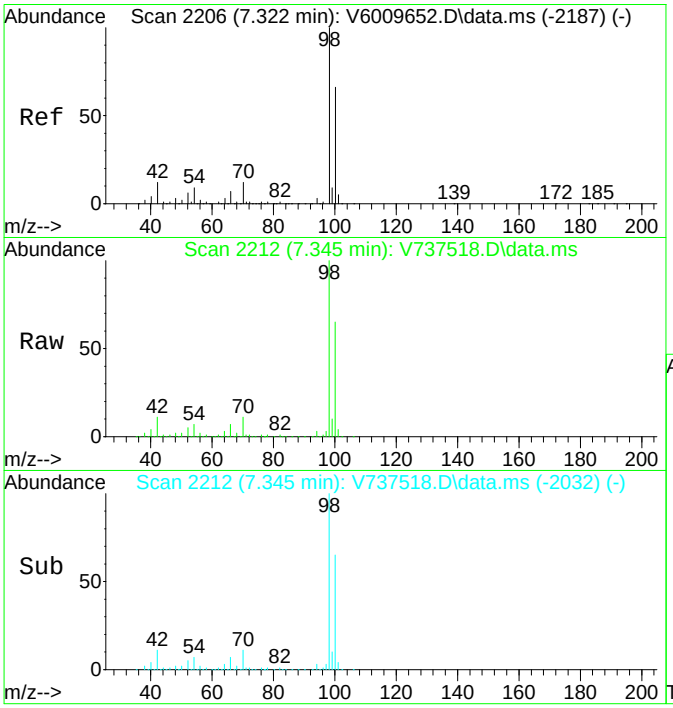


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.255 min Scan# 2180
Delta R.T. 0.003 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion: 43 Resp: 101

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.8	49.4#
100	0.0	5.8	17.3#
85	0.0	6.7	20.0#

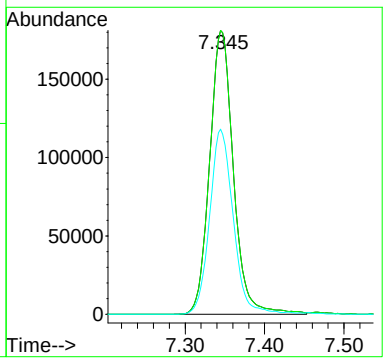


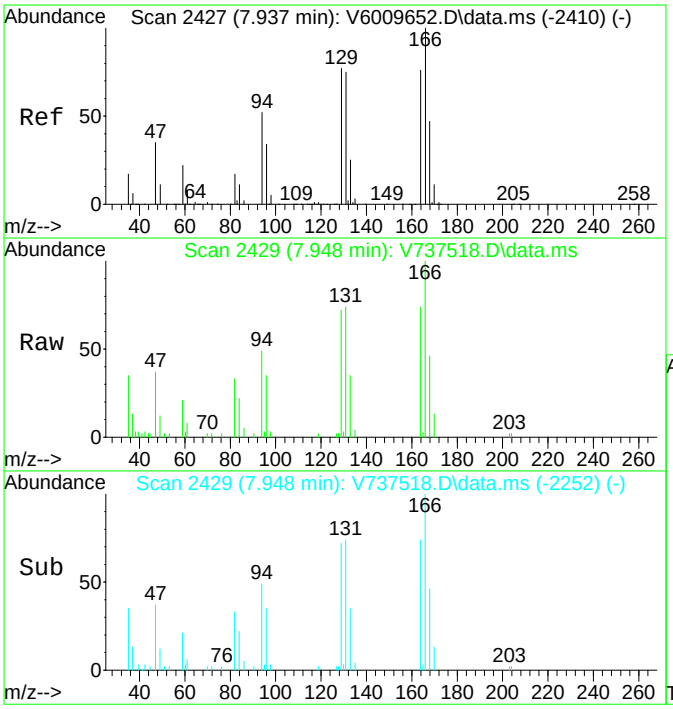


#53
Toluene-d8 (SURR)
Concen: 10.11 ppb
RT: 7.345 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion: 98 Resp: 377233

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.4	43.4	90.2

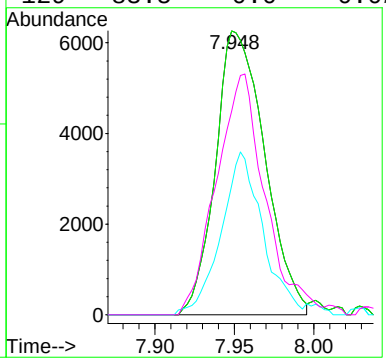


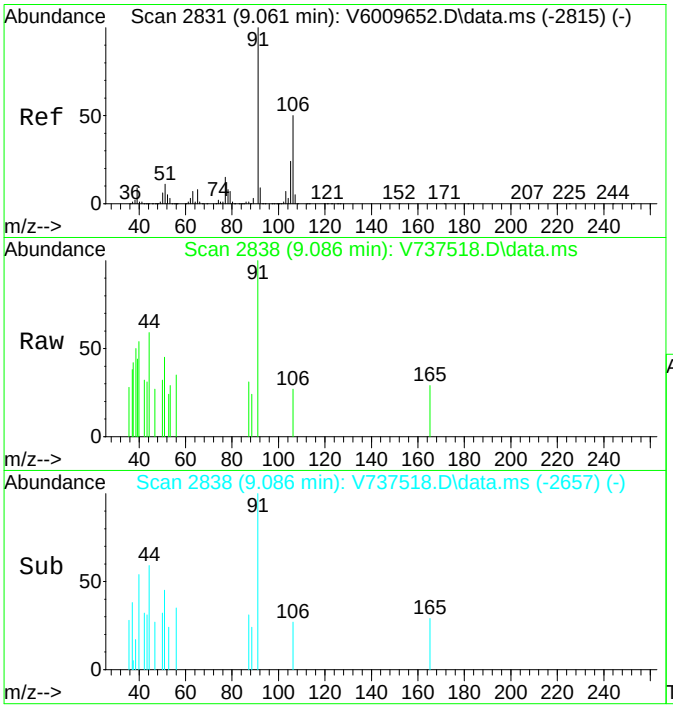


#59
Tetrachloroethylene
Concen: 1.07 ppb
RT: 7.948 min Scan# 2429
Delta R.T. -0.008 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion:166 Resp: 13540

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	48.3	0.0	0.0#
129	83.5	0.0	0.0#

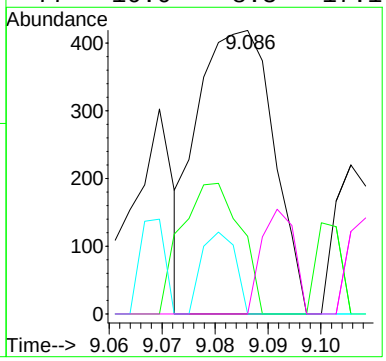


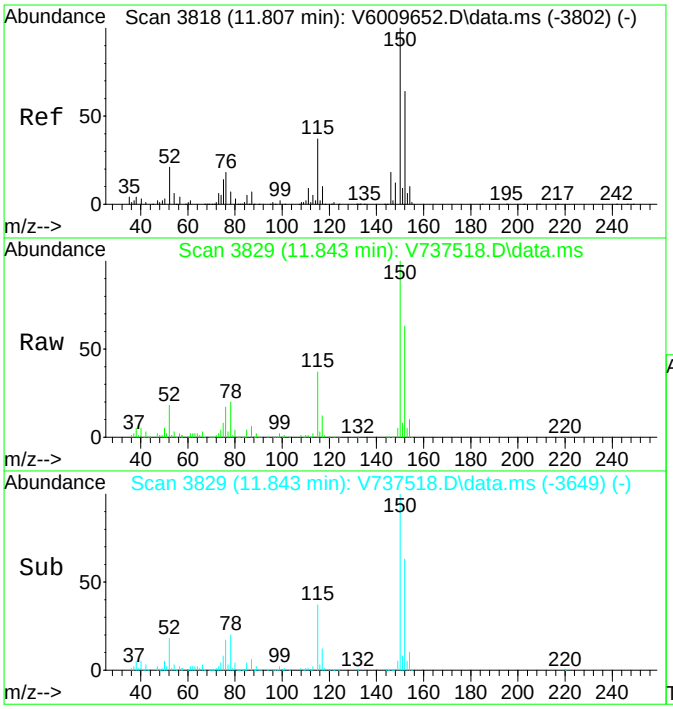


#66
p- & m-Xylenes
Concen: 0.46 ppb
RT: 9.086 min Scan# 2838
Delta R.T. 0.003 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion: 91 Resp: 420

Ion	Ratio	Lower	Upper
91	100		
106	35.7	31.3	65.1
105	12.9	14.2	29.4#
77	16.0	8.3	17.1

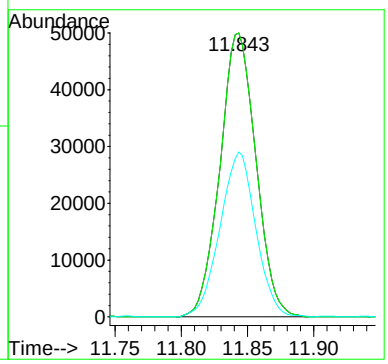


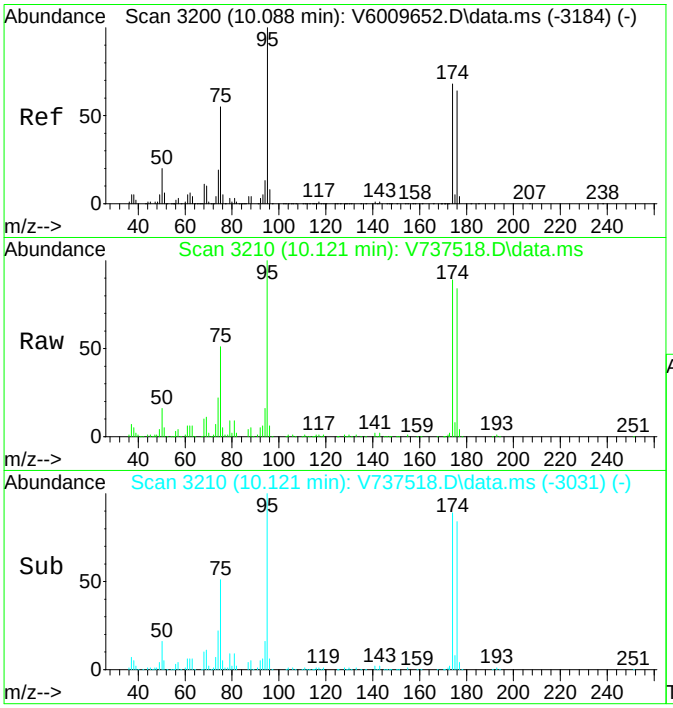


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion:152 Resp: 94413

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	57.8	33.7	101.0

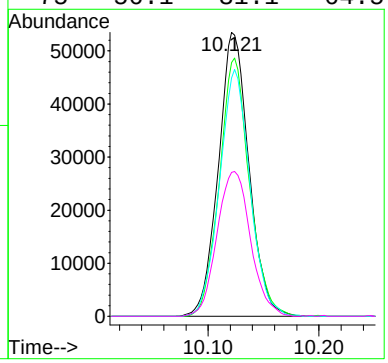


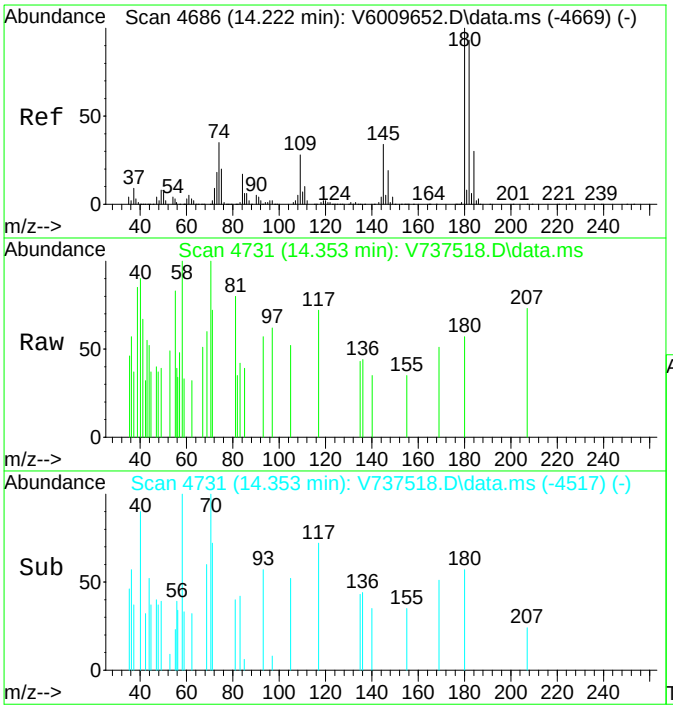


#73
p-Bromofluorobenzene (SURR)
Concen: 10.79 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion: 95 Resp: 102373

Ion	Ratio	Lower	Upper
95	100		
174	89.6	49.1	102.1
176	86.8	47.7	99.1
75	56.1	31.1	64.5

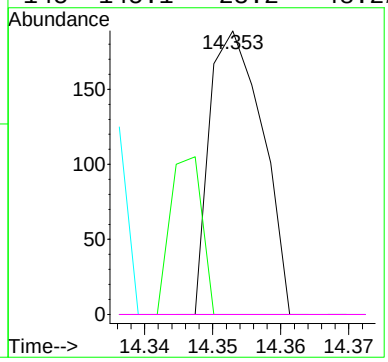




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.353 min Scan# 4731
Delta R.T. 0.095 min
Lab File: V737518.D
Acq: 22 Dec 2019 9:01 pm

Tgt Ion:180 Resp: 102

Ion	Ratio	Lower	Upper
180	100		
182	33.3	62.0	128.8#
74	118.6	18.9	39.1#
145	145.1	23.2	48.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-MW-2S

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-03 File ID: V737519.D

Sampled: 12/16/19 13:54 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 21:31

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-MW-2S

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-03	File ID:	V737519.D
Sampled:	12/16/19 13:54	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 21:31
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.47	94.7	69 - 130	
SURR: Toluene-d8	10.0	9.89	98.9	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	63333	5.82	72154	5.825	
ISTD: Chlorobenzene-d5	290830	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	97877	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737519.D
Acq On : 22 Dec 2019 9:31 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-03
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 24 09:46:59 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

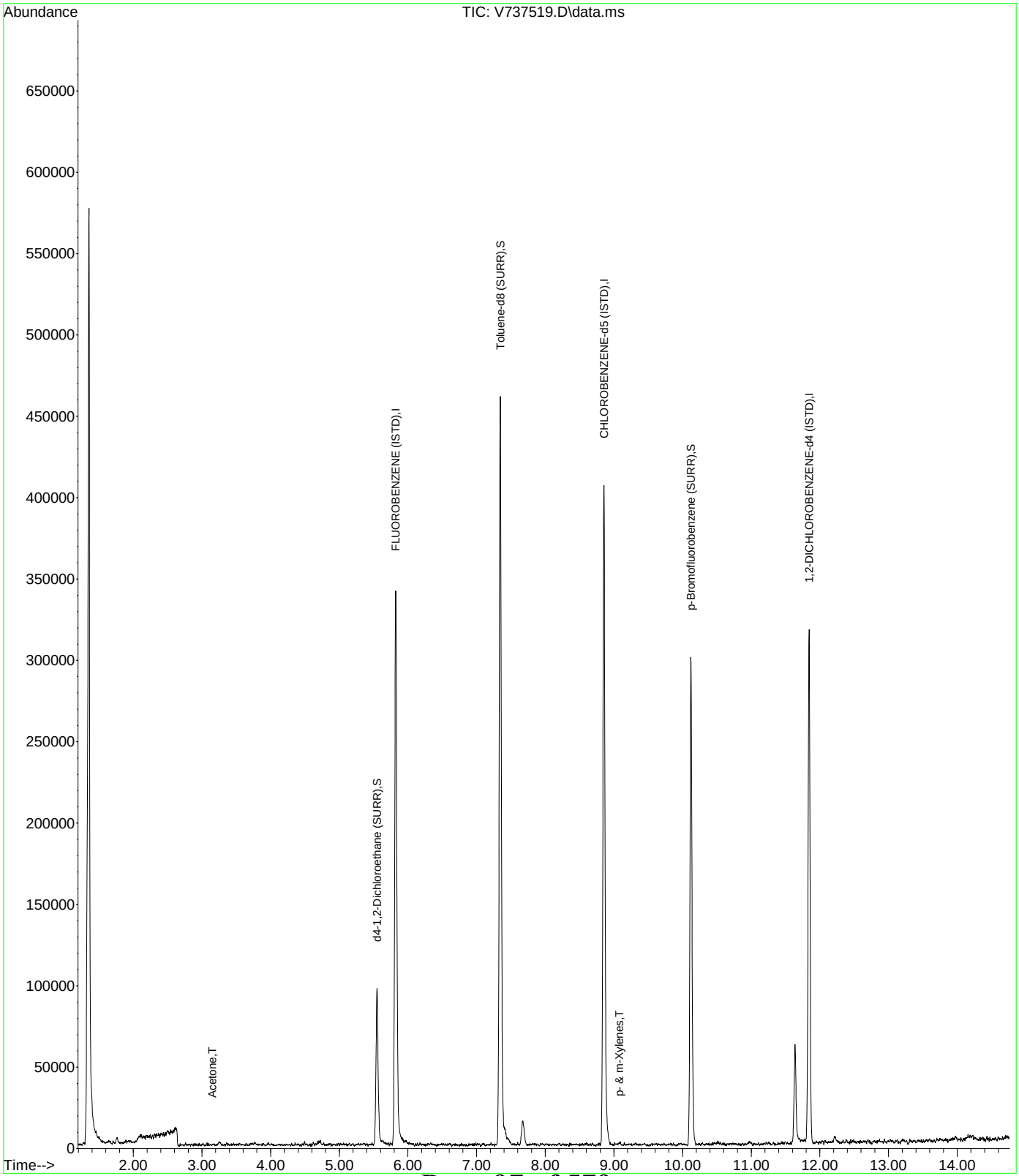
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.820	70	63333	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	290830	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	97877	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	68907	9.47	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.70%				
53) Toluene-d8 (SURR)	7.344	98	370617	9.89	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.90%				
73) p-Bromofluorobenzene (...	10.121	95	103772	10.55	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.50%				
Target Compounds							Qvalue
6) Chloroethane	2.211	64	161	Below Cal			97
12) Acetone	3.146	43	336	0.27	ppb	#	100
52) 4-Methyl-2-Pentanone	7.250	43	55	Below Cal		#	18
66) p- & m-Xylenes	9.078	91	769	0.47	ppb	#	88
99) 1,2,3-Trichlorobenzene	14.264	180	35	Below Cal		#	12

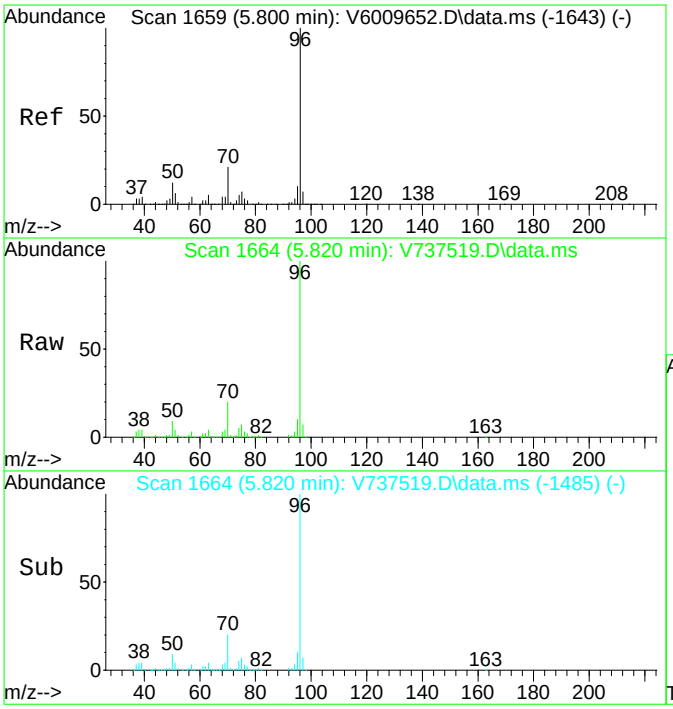
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737519.D
Acq On : 22 Dec 2019 9:31 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-03
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 24 09:46:59 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

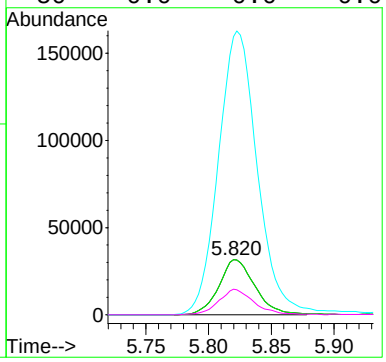


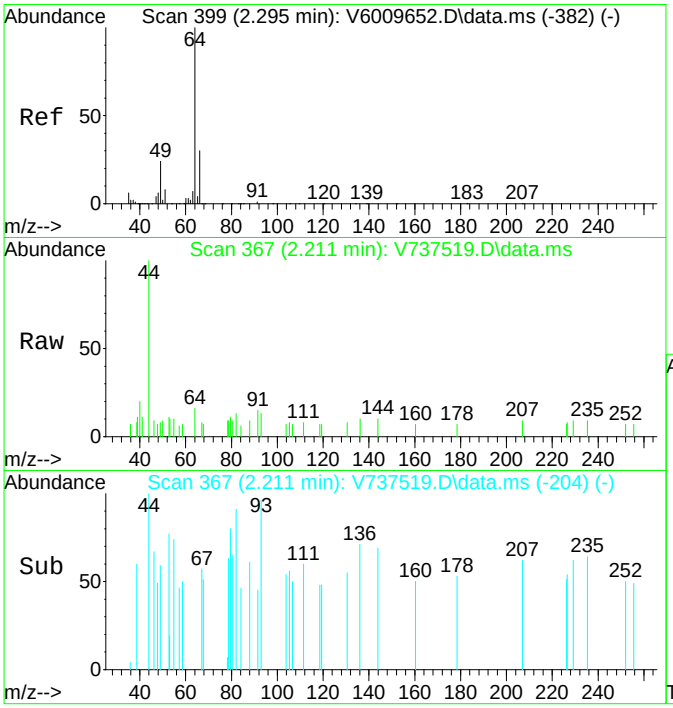


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.820 min Scan# 1664
Delta R.T. -0.002 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 70 Resp: 63333

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	557.8	323.6	672.2
50	0.0	0.0	0.0

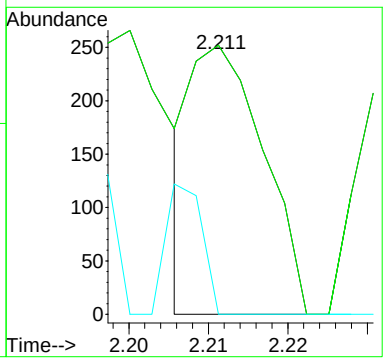


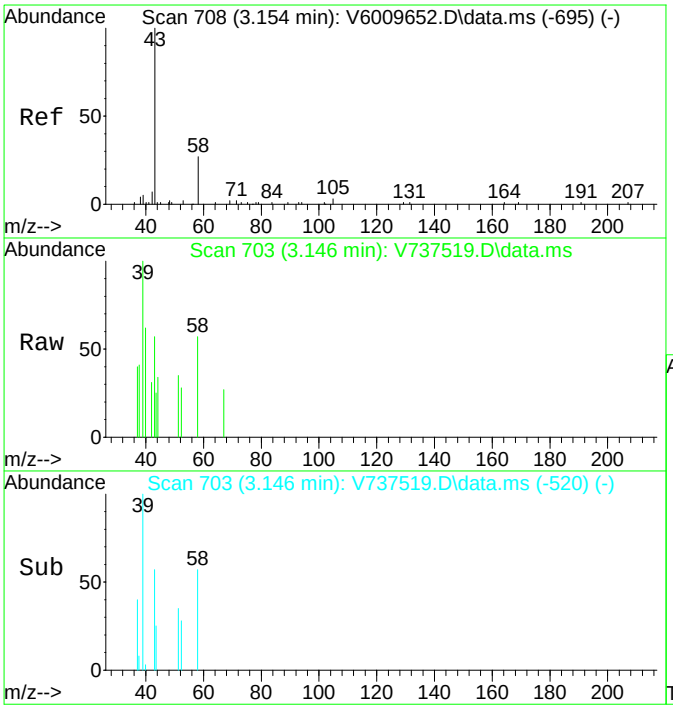


#6
Chloroethane
Concen: Below Cal
RT: 2.211 min Scan# 367
Delta R.T. -0.047 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 64 Resp: 161

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	24.2	20.6	42.8

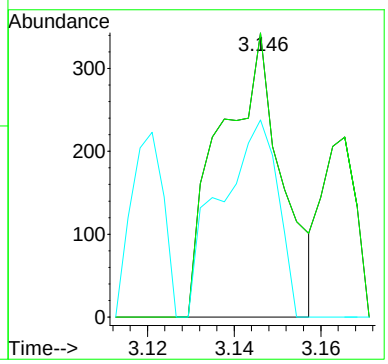


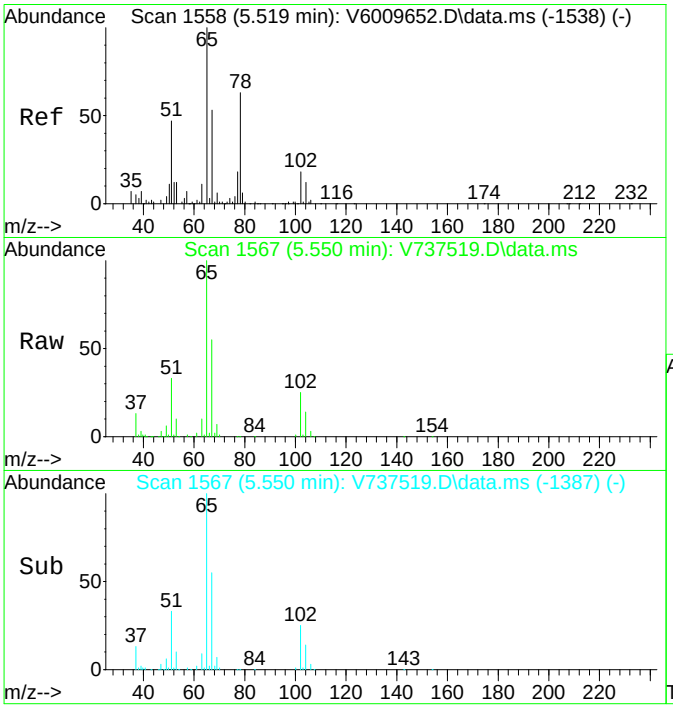


#12
Acetone
Concen: 0.27 ppb
RT: 3.146 min Scan# 703
Delta R.T. 0.008 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 43 Resp: 336

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	65.5	0.0	0.0#

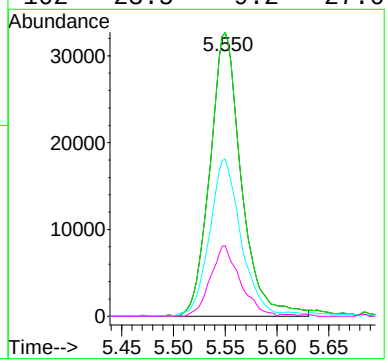


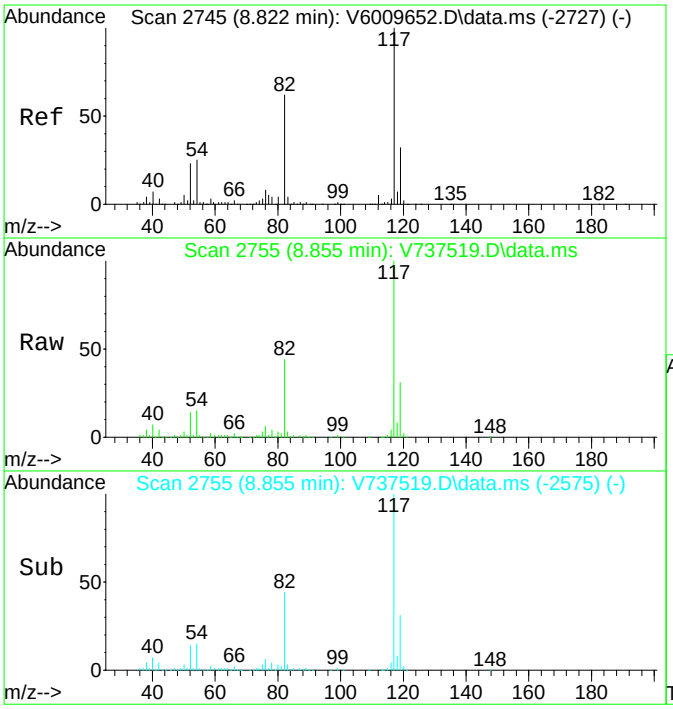


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.47 ppb
RT: 5.550 min Scan# 1567
Delta R.T. 0.000 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 65 Resp: 68907

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	55.3	33.0	68.6
102	23.5	9.2	27.6

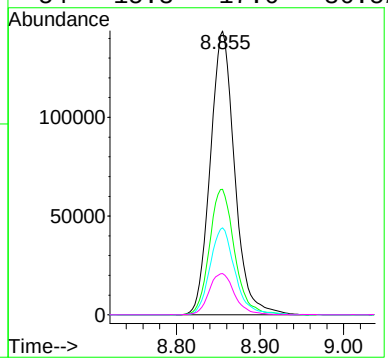


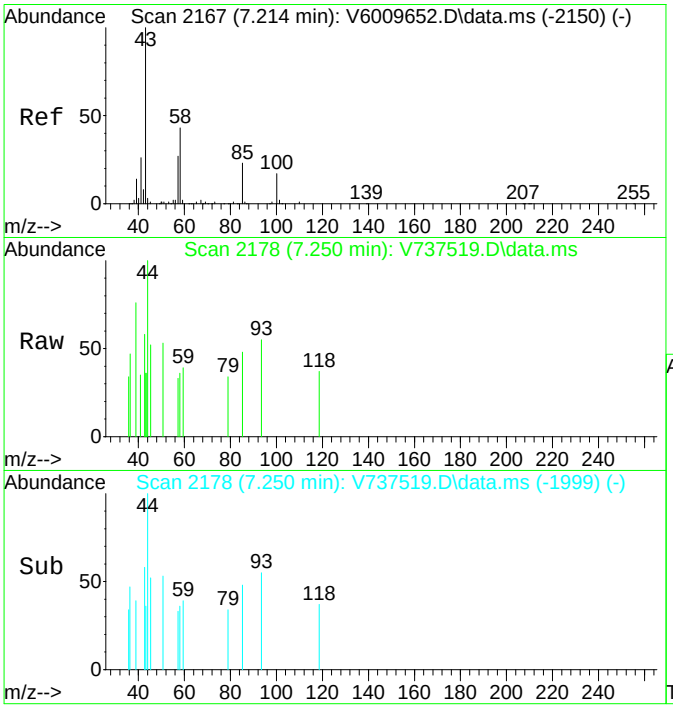


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion:117 Resp: 290830

Ion	Ratio	Lower	Upper
117	100		
82	45.7	35.9	74.7
119	31.4	20.8	43.2
54	15.3	17.6	36.5#

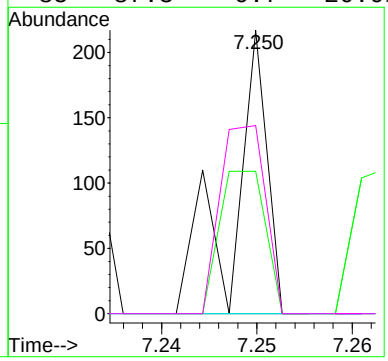


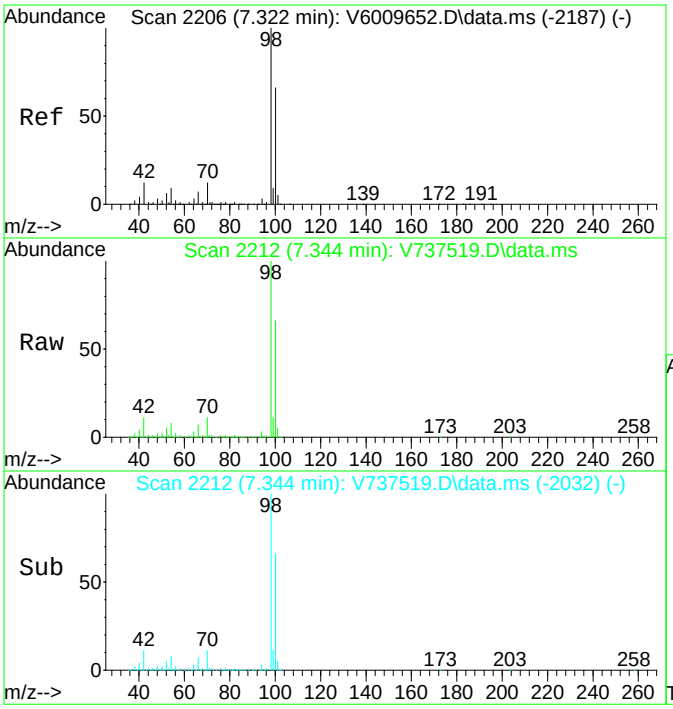


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.250 min Scan# 2178
Delta R.T. -0.003 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 43 Resp: 55

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.8	49.4#
100	0.0	5.8	17.3#
85	87.3	6.7	20.0#

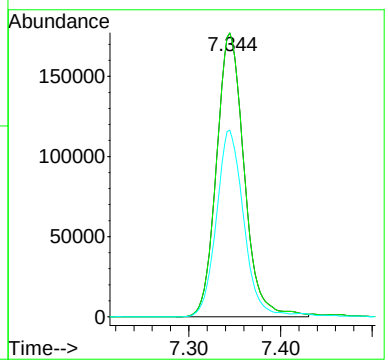


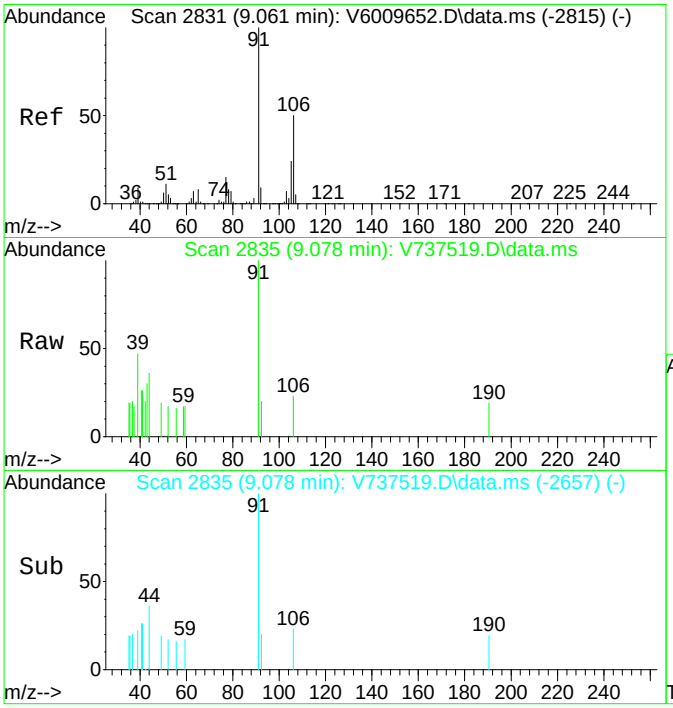


#53
Toluene-d8 (SURR)
Concen: 9.89 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 98 Resp: 370617

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.7	43.4	90.2

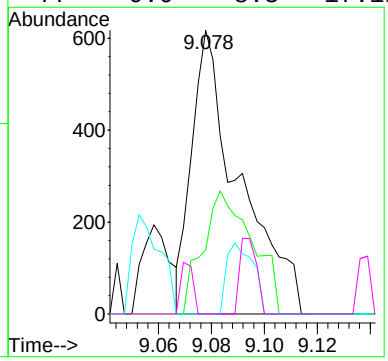


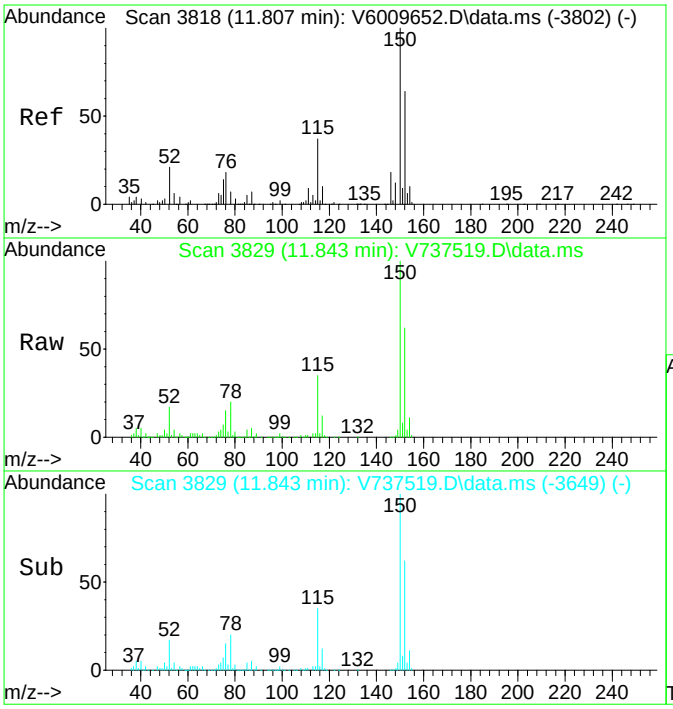


#66
p- & m-Xylenes
Concen: 0.47 ppb
RT: 9.078 min Scan# 2835
Delta R.T. -0.005 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 91 Resp: 769

Ion	Ratio	Lower	Upper
91	100		
106	45.1	31.3	65.1
105	13.9	14.2	29.4#
77	0.0	8.3	17.1#

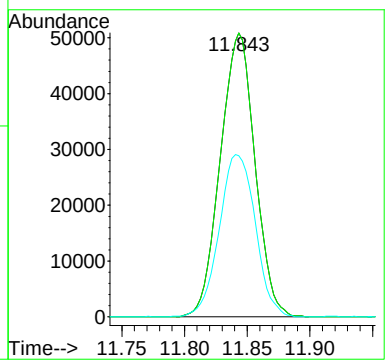


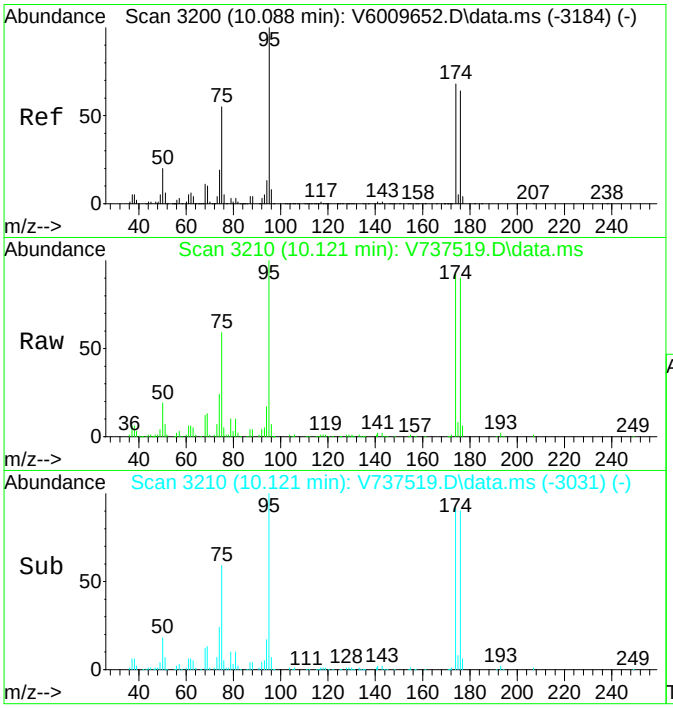


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion:152 Resp: 97877

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.6	33.7	101.0

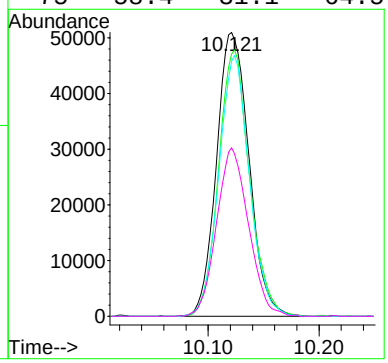


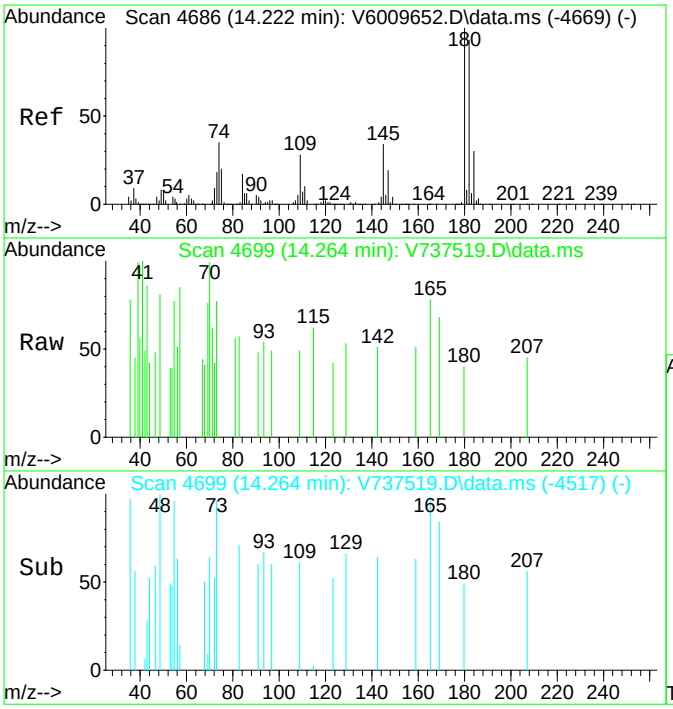


#73
p-Bromofluorobenzene (SURR)
Concen: 10.55 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion: 95 Resp: 103772

Ion	Ratio	Lower	Upper
95	100		
174	89.7	49.1	102.1
176	86.8	47.7	99.1
75	58.4	31.1	64.5

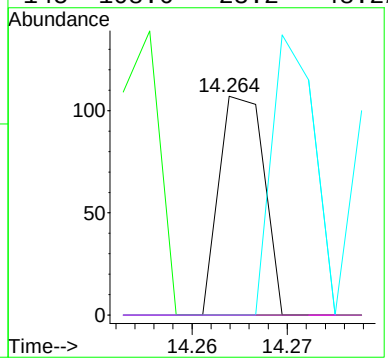




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.264 min Scan# 4699
Delta R.T. 0.006 min
Lab File: V737519.D
Acq: 22 Dec 2019 9:31 pm

Tgt Ion:180 Resp: 35

Ion	Ratio	Lower	Upper
180	100		
182	117.1	62.0	128.8
74	168.6	18.9	39.1#
145	108.6	23.2	48.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-MW-1S

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-04 File ID: V737520.D

Sampled: 12/16/19 14:57 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 22:00

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-MW-1S

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-04	File ID:	V737520.D
Sampled:	12/16/19 14:57	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 22:00
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.400	J
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.470	J
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.71	97.1	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	63094	5.823	72154	5.825	
ISTD: Chlorobenzene-d5	289618	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	96591	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737520.D
Acq On : 22 Dec 2019 10:00 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-04
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 24 09:47:55 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

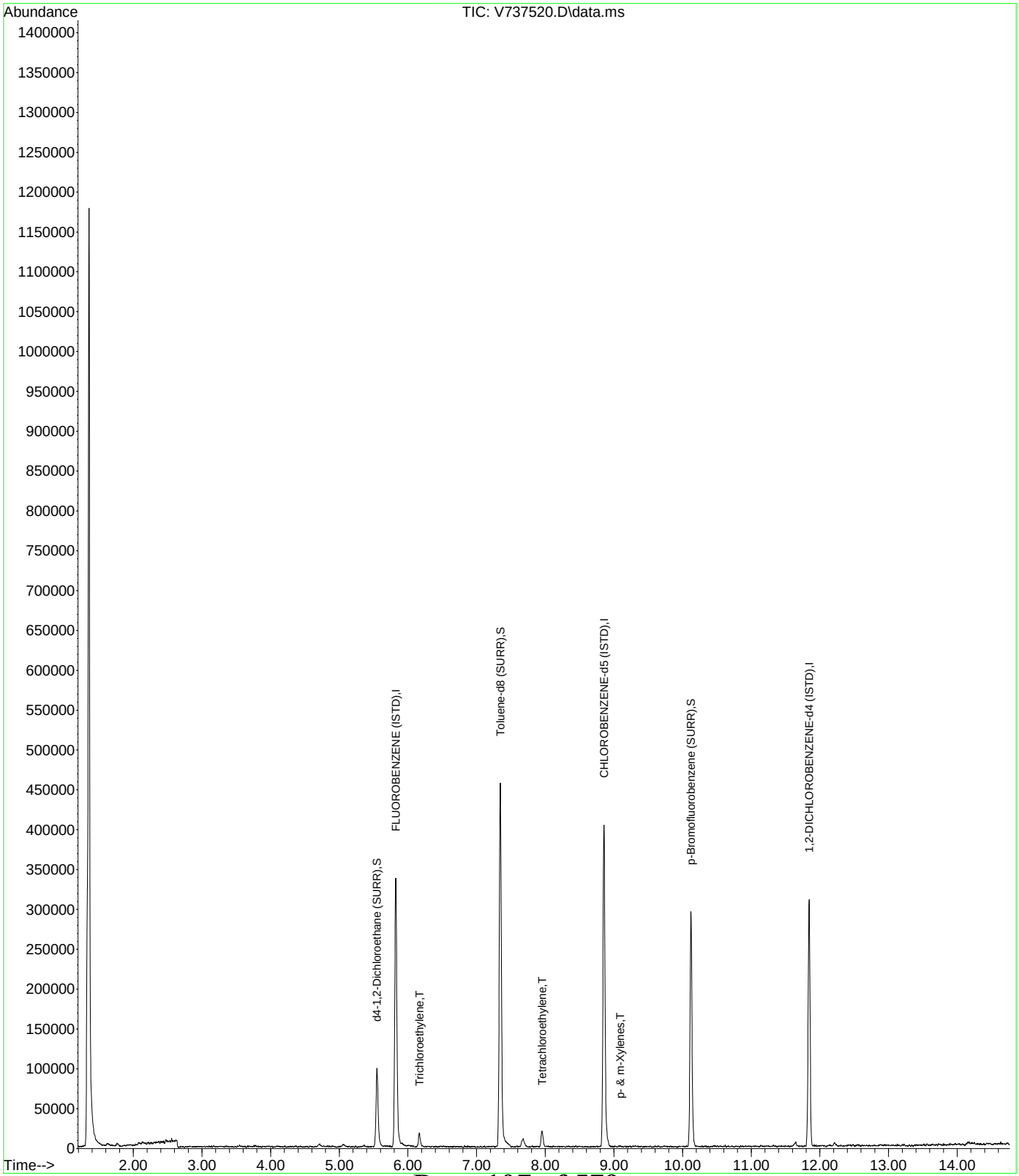
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.823	70	63094	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	289618	10.00	ppb	# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	96591	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.547	65	70434	9.71	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.10%			
53) Toluene-d8 (SURR)	7.344	98	376248	10.09	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.90%			
73) p-Bromofluorobenzene (...	10.121	95	100948	10.40	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.00%			
Target Compounds						Qvalue
6) Chloroethane	2.222	64	642	Below Cal		98
42) Trichloroethylene	6.168	95	4872	0.47	ppb	79
52) 4-Methyl-2-Pentanone	7.258	43	60	Below Cal	#	50
59) Tetrachloroethylene	7.957	166	5001	0.40	ppb #	100
66) p- & m-Xylenes	9.092	91	307	0.45	ppb #	76
99) 1,2,3-Trichlorobenzene	14.233	180	18	Below Cal	#	1

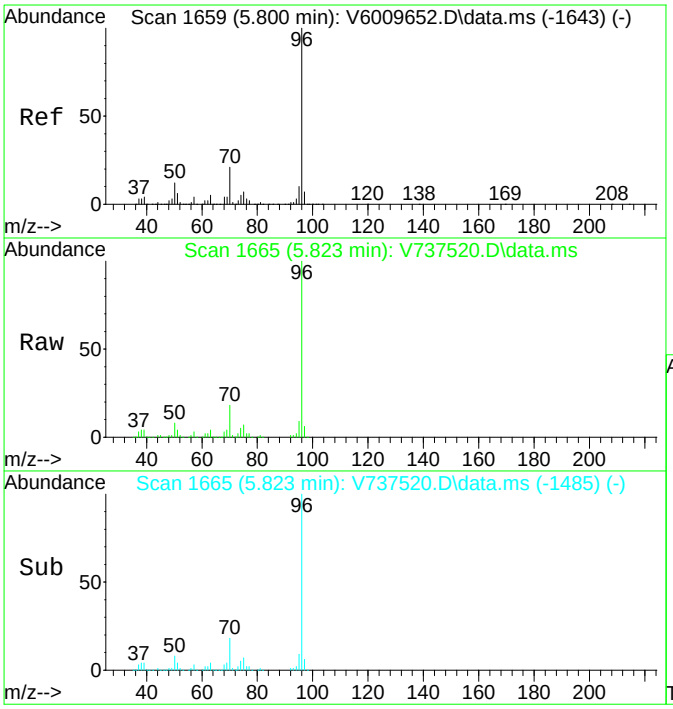
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737520.D
Acq On : 22 Dec 2019 10:00 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-04
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 24 09:47:55 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

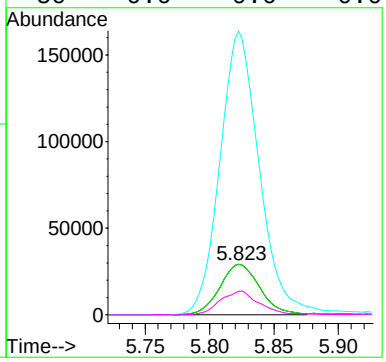


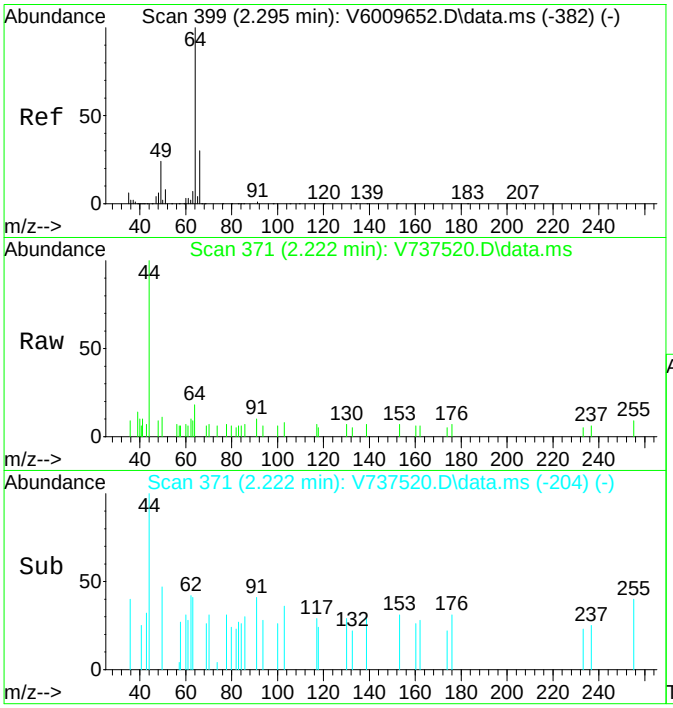


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.823 min Scan# 1665
Delta R.T. 0.001 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 70 Resp: 63094

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	0.0	323.6	672.2#
50	0.0	0.0	0.0

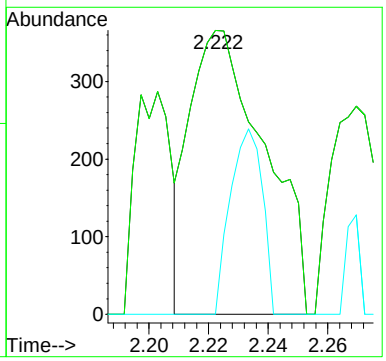


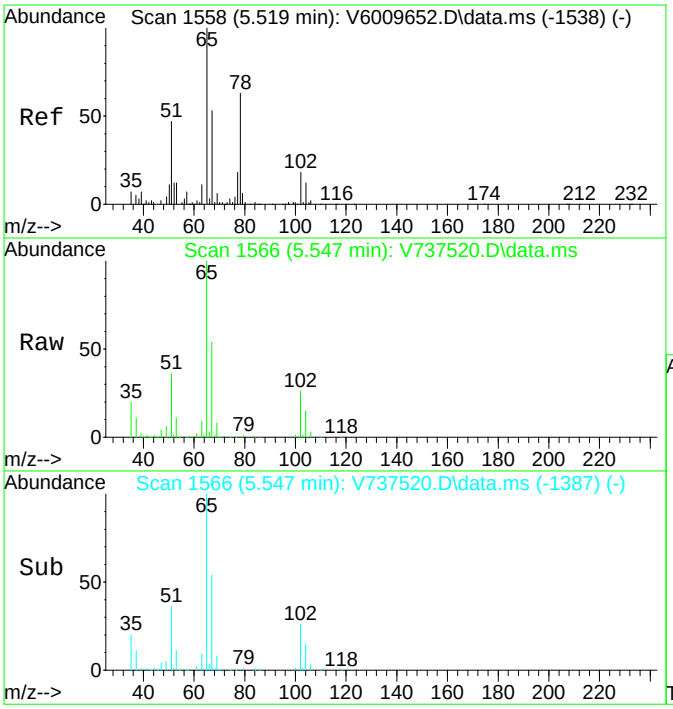


#6
Chloroethane
Concen: Below Cal
RT: 2.222 min Scan# 371
Delta R.T. -0.036 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 64 Resp: 642

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	27.7	20.6	42.8

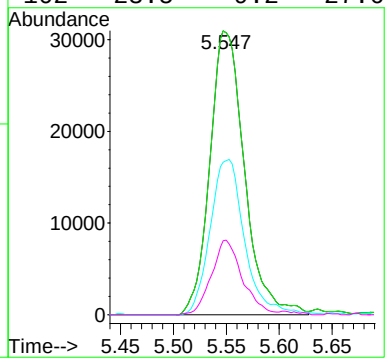


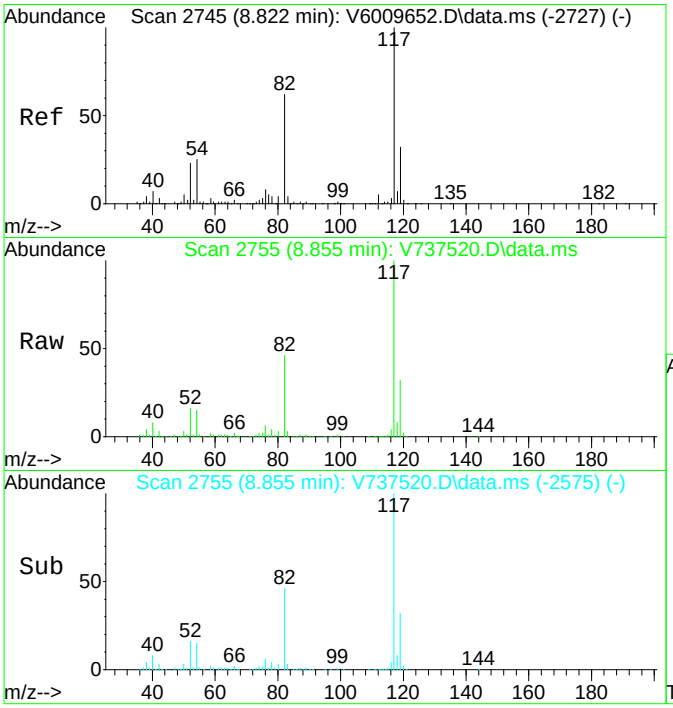


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.71 ppb
RT: 5.547 min Scan# 1566
Delta R.T. -0.003 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 65 Resp: 70434

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	54.5	33.0	68.6
102	23.5	9.2	27.6

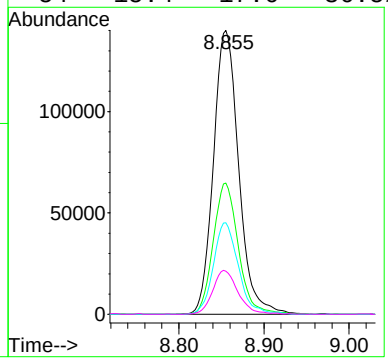


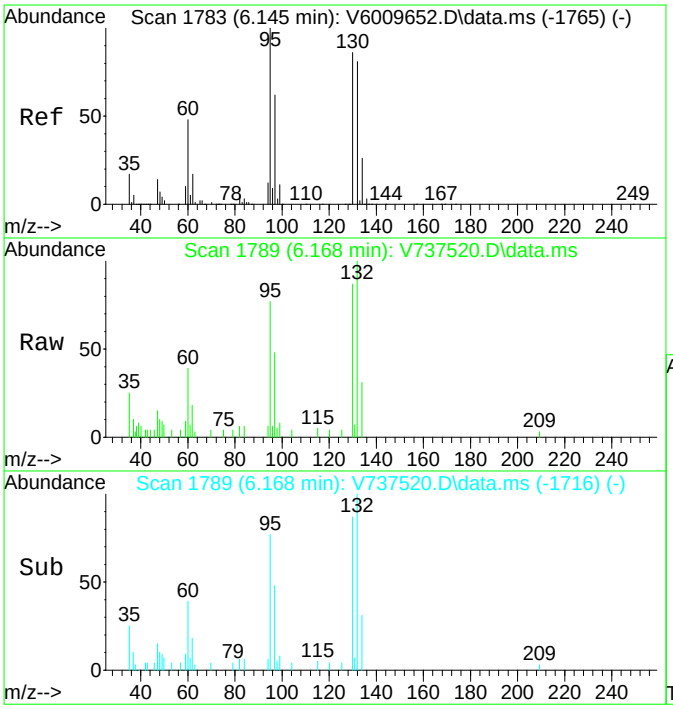


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion:117 Resp: 289618

Ion	Ratio	Lower	Upper
117	100		
82	45.9	35.9	74.7
119	31.9	20.8	43.2
54	15.4	17.6	36.5#

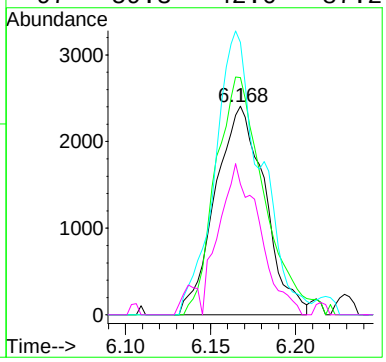


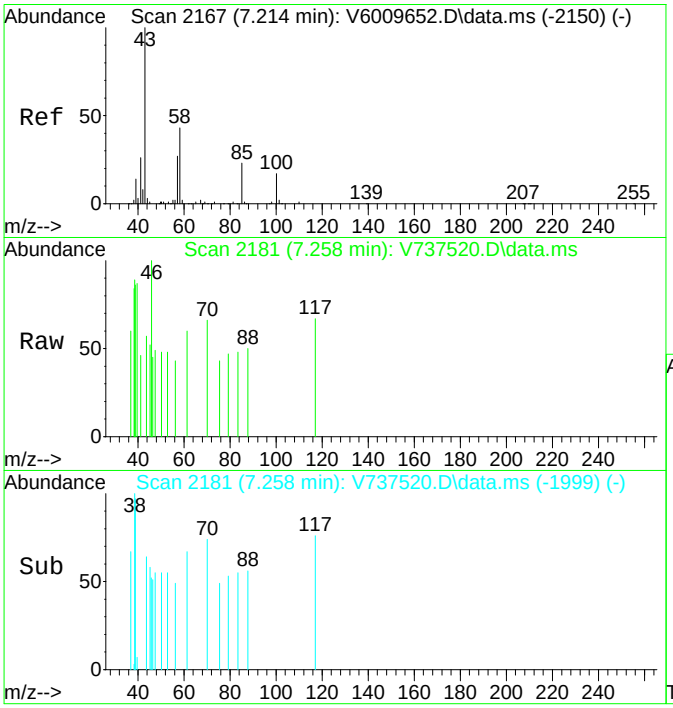


#42
Trichloroethylene
Concen: 0.47 ppb
RT: 6.168 min Scan# 1789
Delta R.T. 0.003 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 95 Resp: 4872

Ion	Ratio	Lower	Upper
95	100		
130	112.2	61.1	126.9
132	126.2	62.0	128.8
97	59.3	42.0	87.2

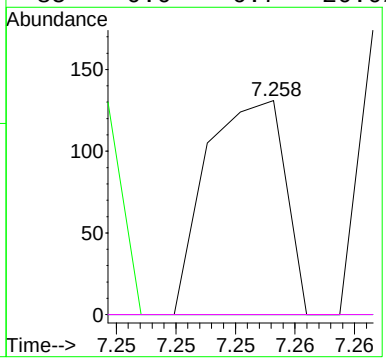


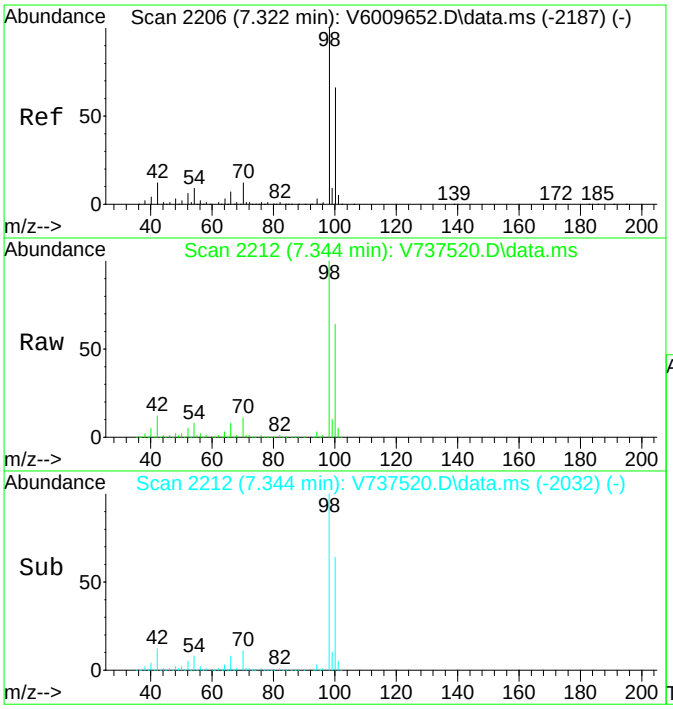


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.258 min Scan# 2181
Delta R.T. 0.006 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 43 Resp: 60

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.8	49.4#
100	0.0	5.8	17.3#
85	0.0	6.7	20.0#

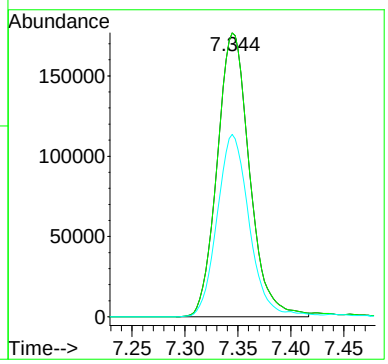


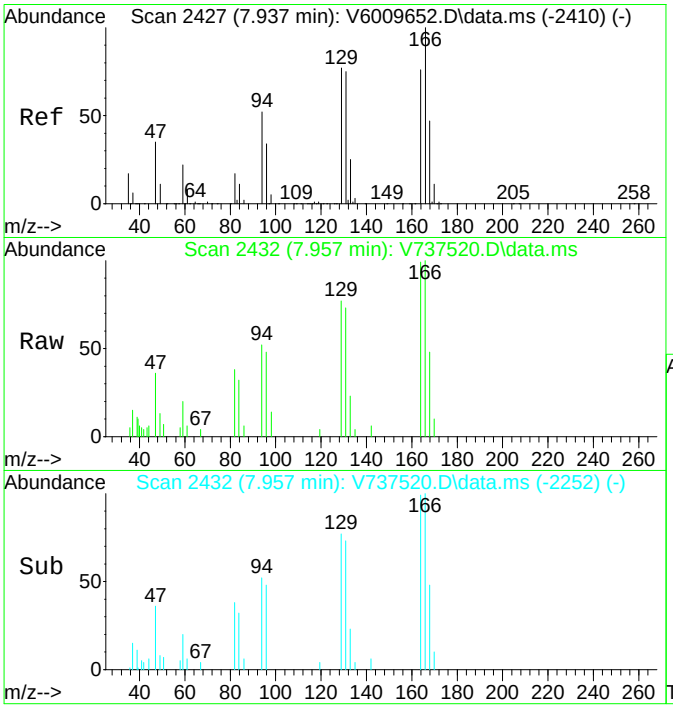


#53
Toluene-d8 (SURR)
Concen: 10.09 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 98 Resp: 376248

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.0	43.4	90.2

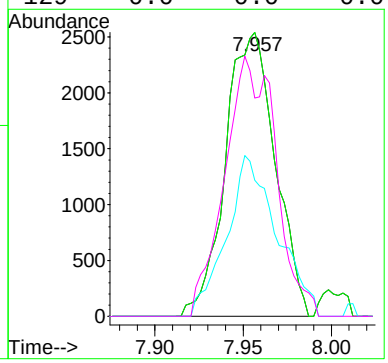


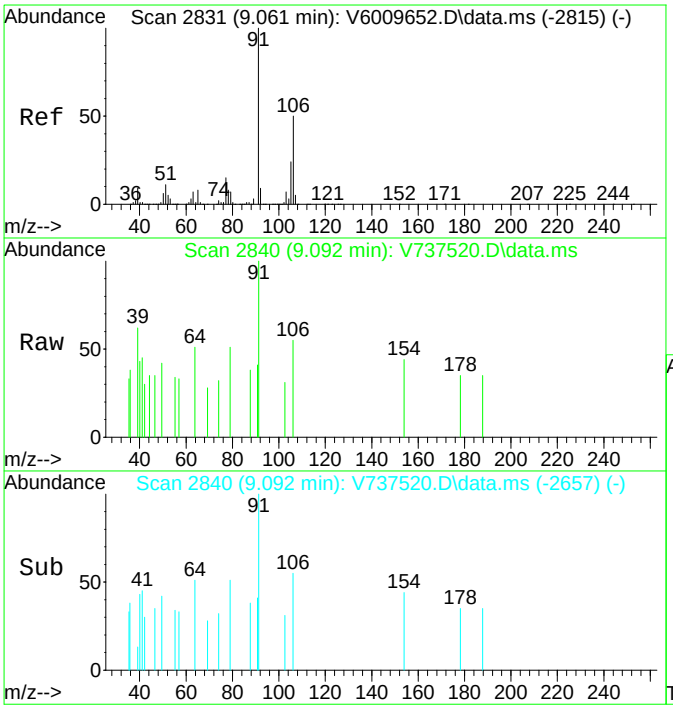


#59
Tetrachloroethylene
Concen: 0.40 ppb
RT: 7.957 min Scan# 2432
Delta R.T. 0.000 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion:166 Resp: 5001

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	0.0	0.0	0.0
129	0.0	0.0	0.0

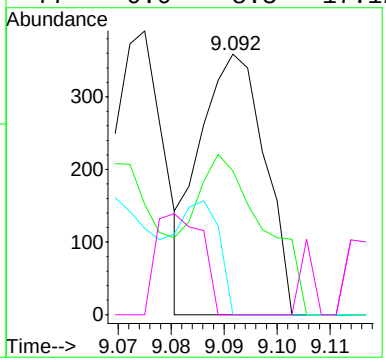


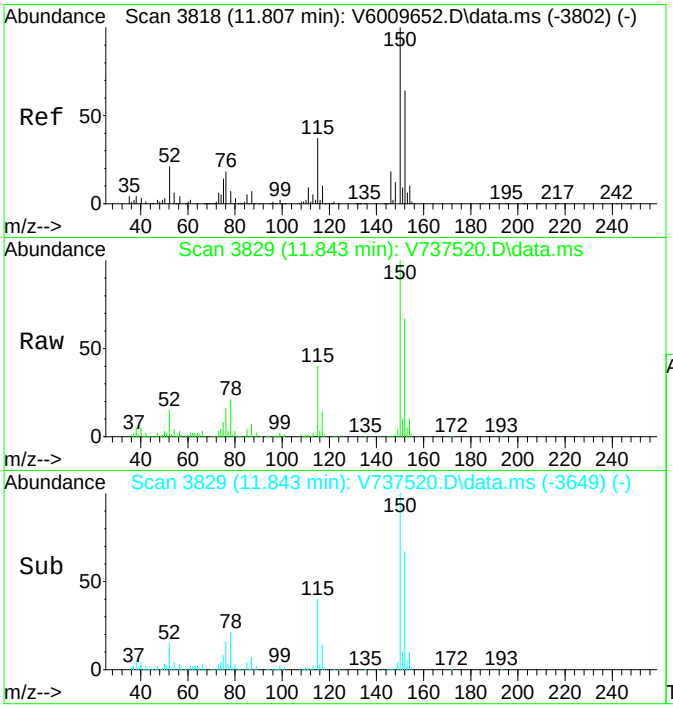


#66
p- & m-Xylenes
Concen: 0.45 ppb
RT: 9.092 min Scan# 2840
Delta R.T. 0.008 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 91 Resp: 307

Ion	Ratio	Lower	Upper
91	100		
106	65.8	31.3	65.1#
105	29.3	14.2	29.4
77	0.0	8.3	17.1#

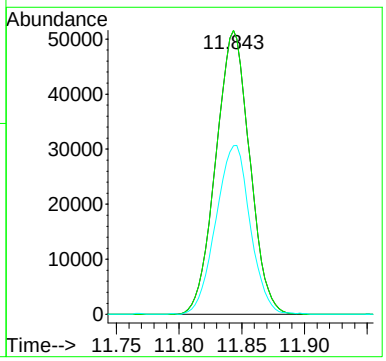


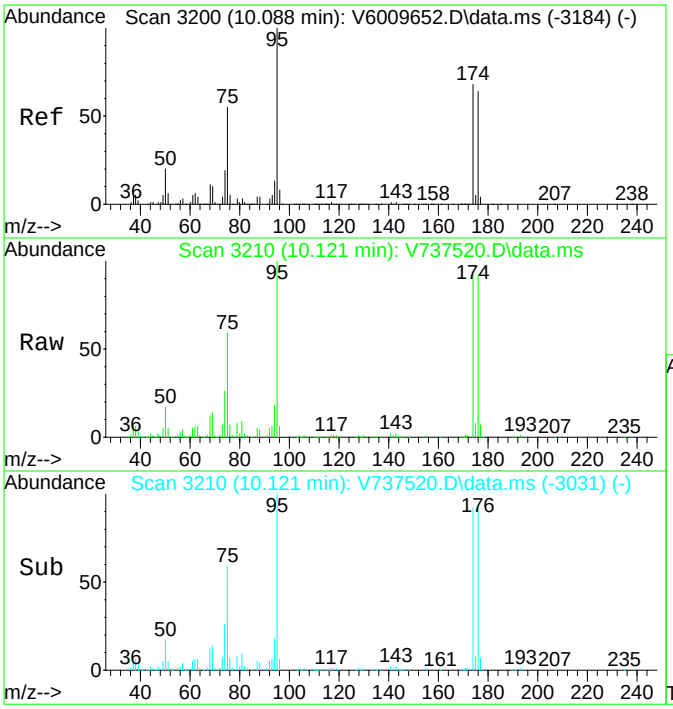


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion:152 Resp: 96591

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	60.5	33.7	101.0

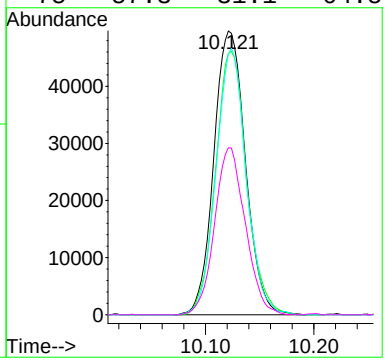


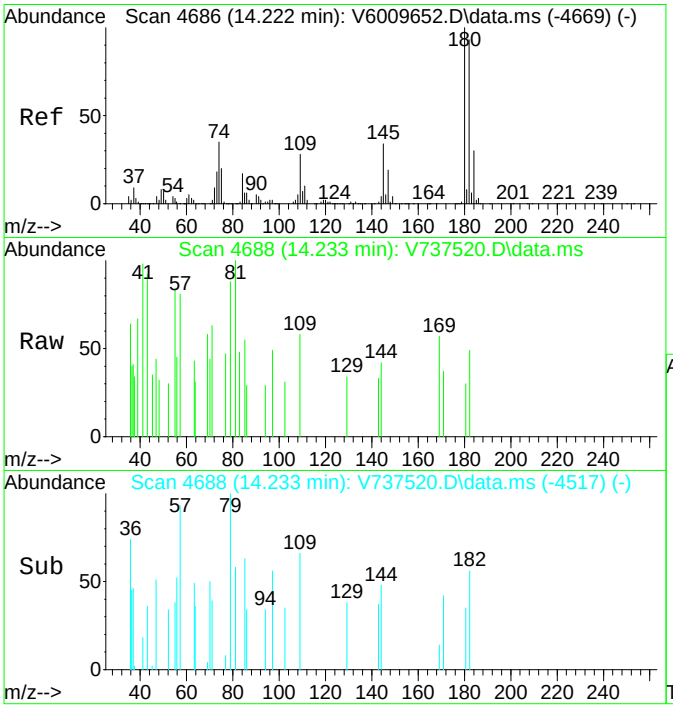


#73
p-Bromofluorobenzene (SURR)
Concen: 10.40 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion: 95 Resp: 100948

Ion	Ratio	Lower	Upper
95	100		
174	91.3	49.1	102.1
176	89.3	47.7	99.1
75	57.3	31.1	64.5

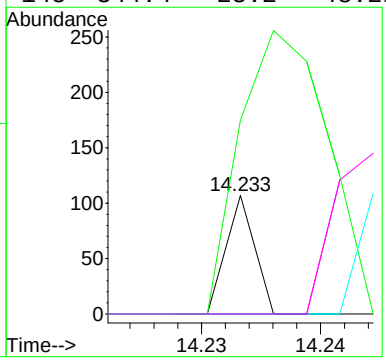




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.233 min Scan# 4688
Delta R.T. -0.025 min
Lab File: V737520.D
Acq: 22 Dec 2019 10:00 pm

Tgt Ion:180 Resp: 18

Ion	Ratio	Lower	Upper
180	100		
182	727.8	62.0	128.8#
74	100.0	18.9	39.1#
145	344.4	23.2	48.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-PW

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-05 File ID: V737521.D

Sampled: 12/16/19 15:13 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 22:30

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-PW

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-05 File ID: V737521.D

Sampled: 12/16/19 15:13 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 22:30

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	2.37	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.230	J
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.58	95.8	69 - 130	
SURR: Toluene-d8	10.0	9.98	99.8	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	64503	5.822	72154	5.825	
ISTD: Chlorobenzene-d5	292058	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	98419	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737521.D
Acq On : 22 Dec 2019 10:30 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-05
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 24 09:48:55 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

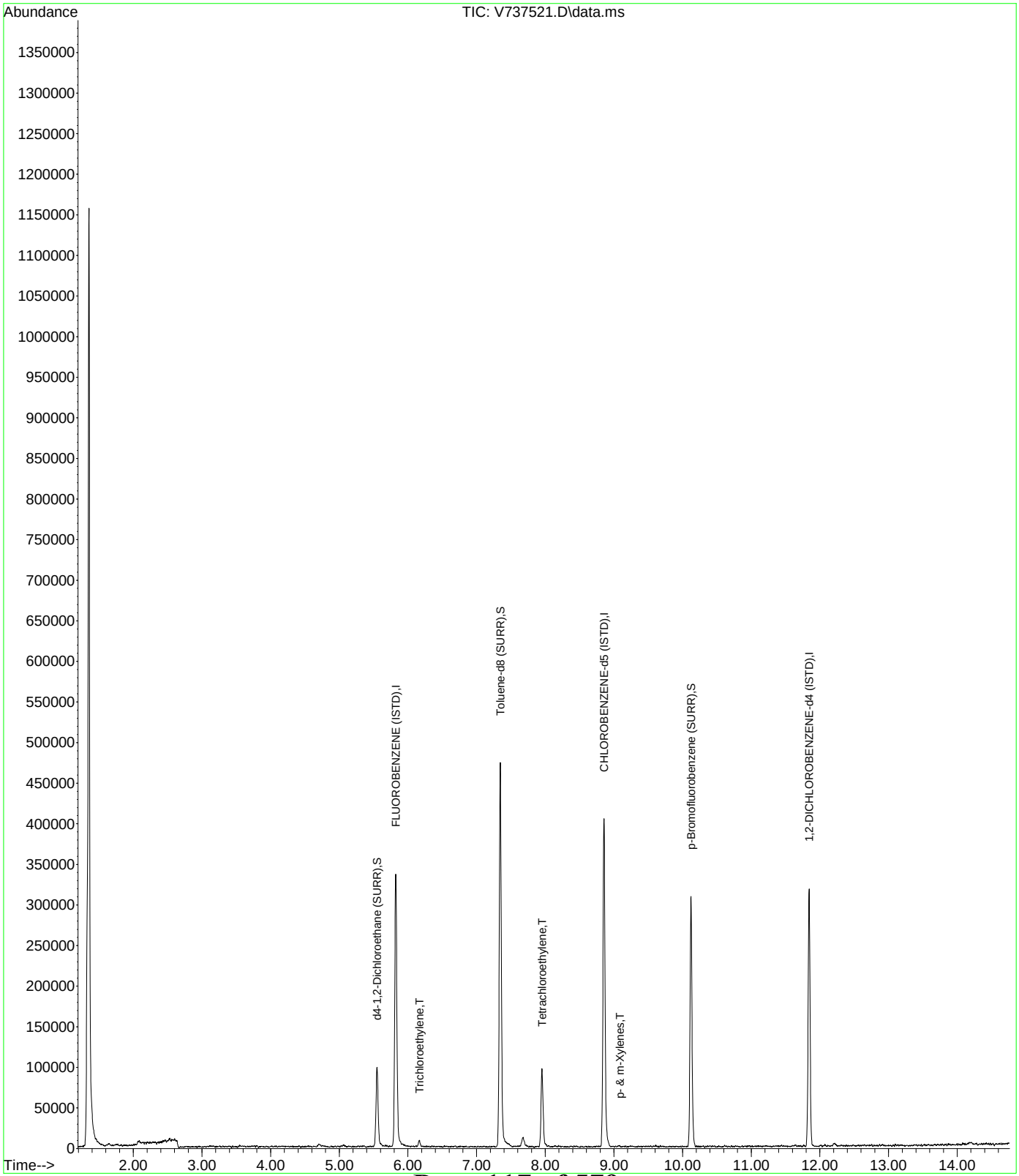
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.822	70	64503	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	292058	10.00	ppb	# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	98419	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.550	65	71016	9.58	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.80%			
53) Toluene-d8 (SURR)	7.344	98	375582	9.98	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.80%			
73) p-Bromofluorobenzene (...	10.124	95	104173	10.53	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.30%			
Target Compounds						Qvalue
6) Chloroethane	2.331	64	223	Below Cal		96
42) Trichloroethylene	6.167	95	2442	0.23	ppb	89
52) 4-Methyl-2-Pentanone	7.247	43	110	Below Cal	#	43
59) Tetrachloroethylene	7.956	166	30105	2.37	ppb #	100
66) p- & m-Xylenes	9.086	91	533	0.46	ppb #	66
99) 1,2,3-Trichlorobenzene	14.381	180	46	Below Cal	#	5

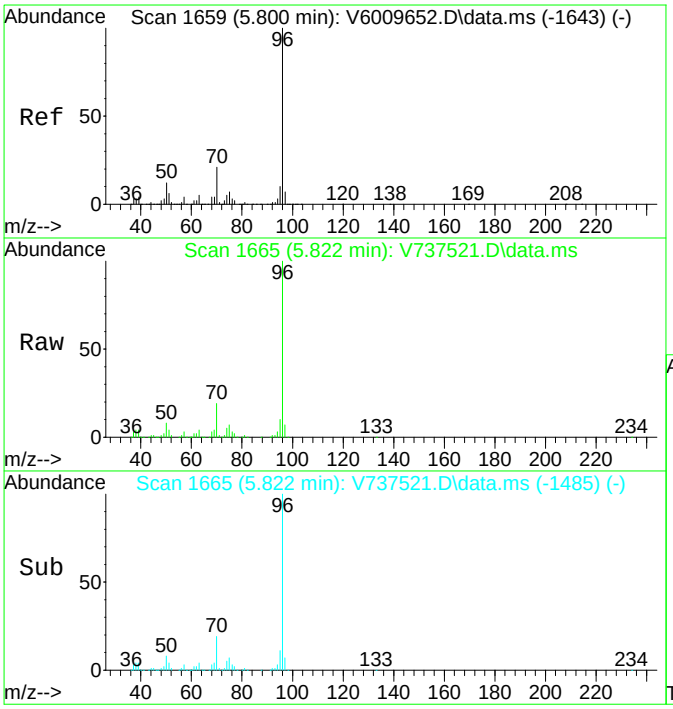
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737521.D
Acq On : 22 Dec 2019 10:30 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-05
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 24 09:48:55 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

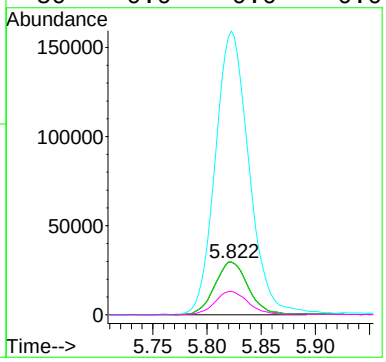


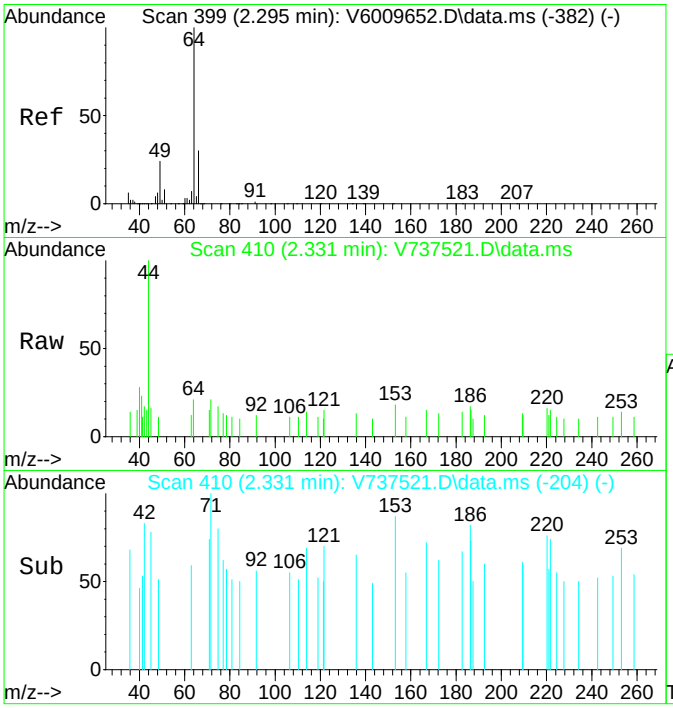


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.000 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 70 Resp: 64503

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	538.6	323.6	672.2
50	0.0	0.0	0.0

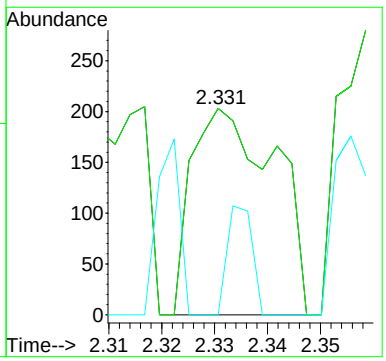


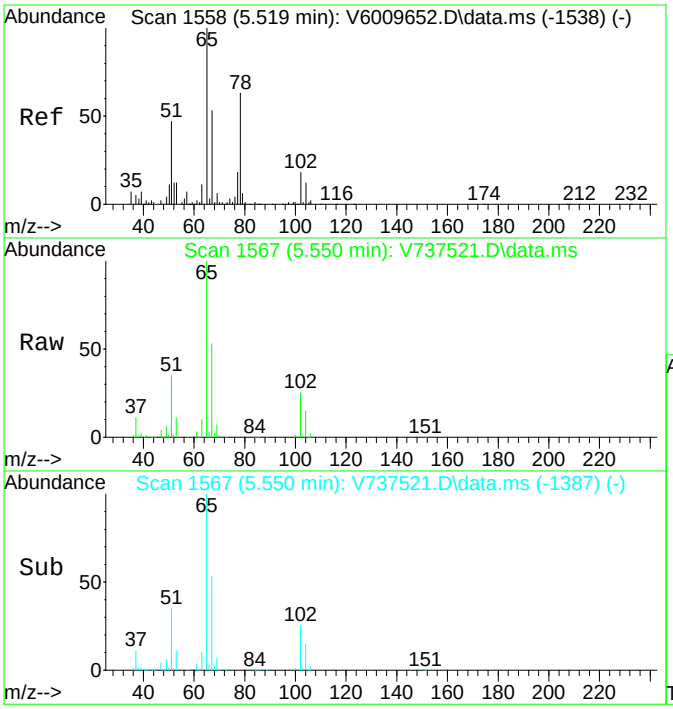


#6
Chloroethane
Concen: Below Cal
RT: 2.331 min Scan# 410
Delta R.T. 0.072 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 64 Resp: 223

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	23.3	20.6	42.8

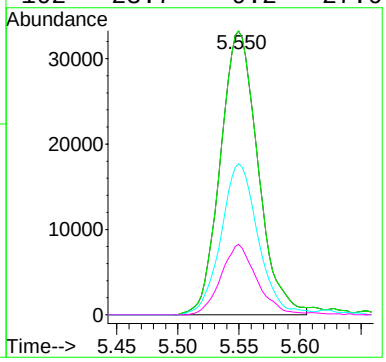


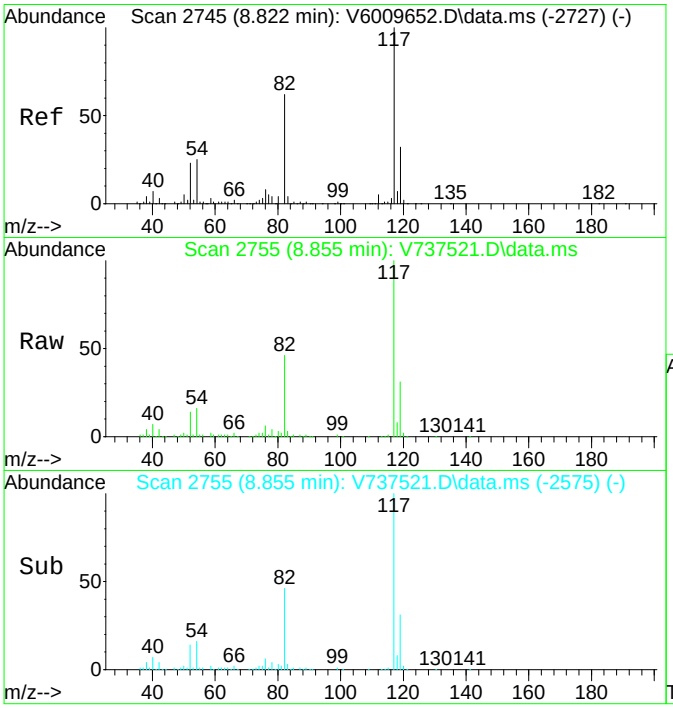


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.58 ppb
RT: 5.550 min Scan# 1567
Delta R.T. -0.000 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 65 Resp: 71016

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	52.6	33.0	68.6
102	23.7	9.2	27.6

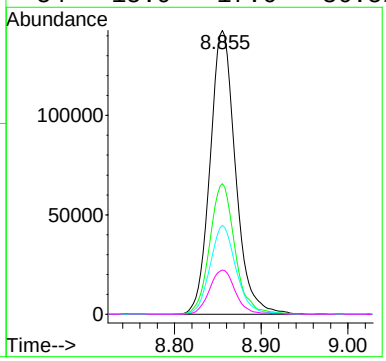


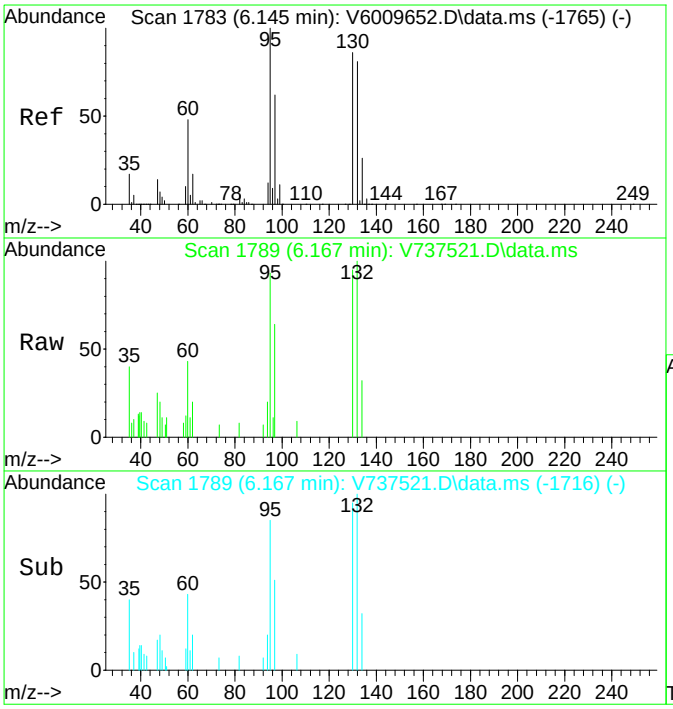


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. -0.000 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion:117 Resp: 292058

Ion	Ratio	Lower	Upper
117	100		
82	45.7	35.9	74.7
119	32.0	20.8	43.2
54	15.9	17.6	36.5#

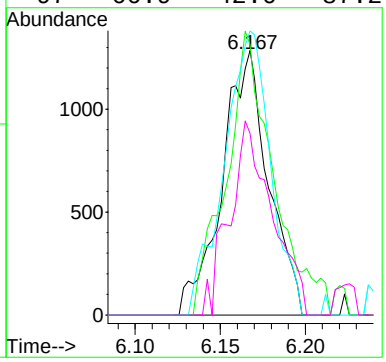


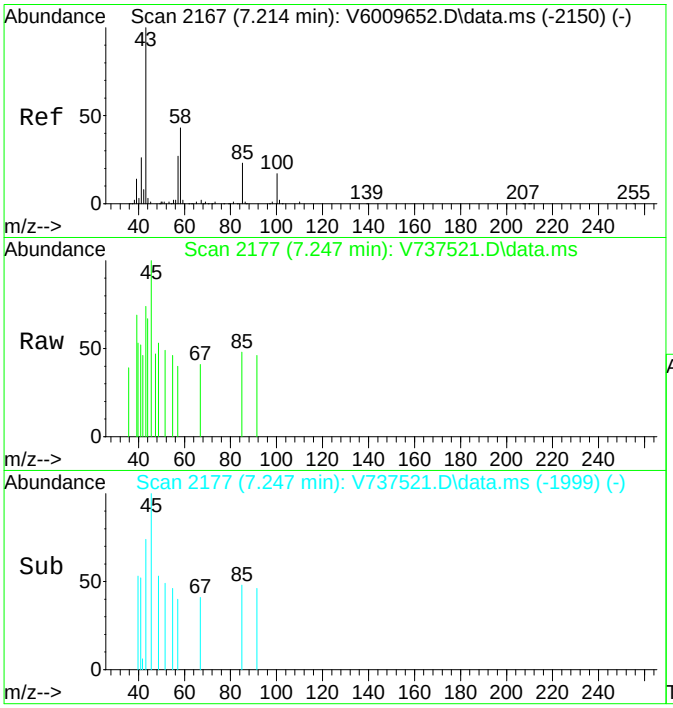


#42
Trichloroethylene
Concen: 0.23 ppb
RT: 6.167 min Scan# 1789
Delta R.T. 0.003 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 95 Resp: 2442

Ion	Ratio	Lower	Upper
95	100		
130	109.5	61.1	126.9
132	107.3	62.0	128.8
97	66.9	42.0	87.2

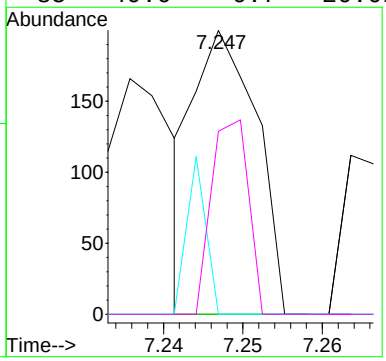


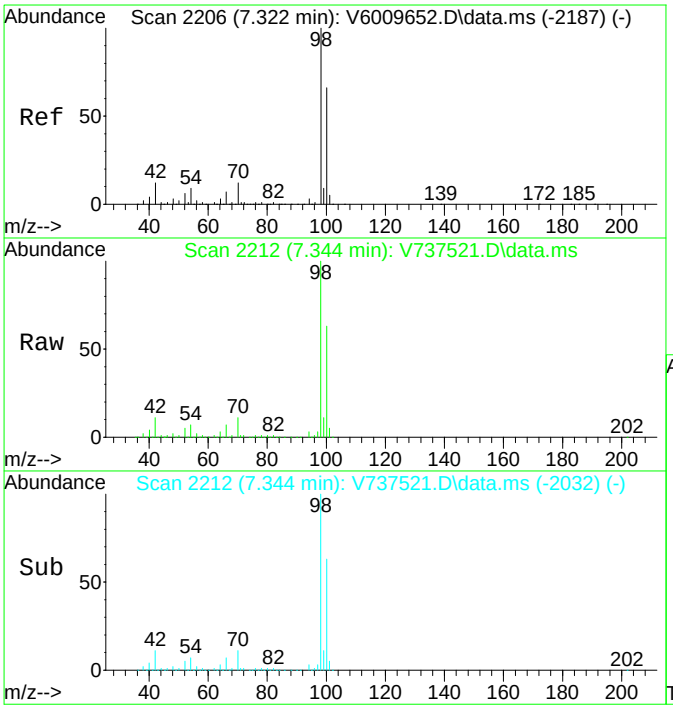


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.247 min Scan# 2177
Delta R.T. -0.006 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 43 Resp: 110

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.8	49.4#
100	0.0	5.8	17.3#
85	40.0	6.7	20.0#

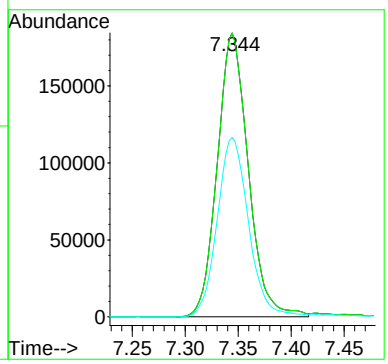


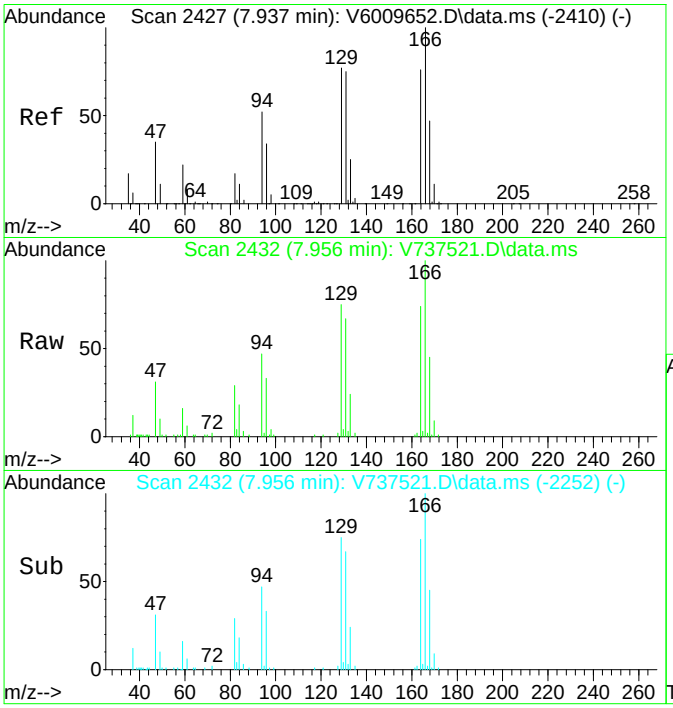


#53
Toluene-d8 (SURR)
Concen: 9.98 ppb
RT: 7.344 min Scan# 2212
Delta R.T. -0.000 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 98 Resp: 375582

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	63.7	43.4	90.2

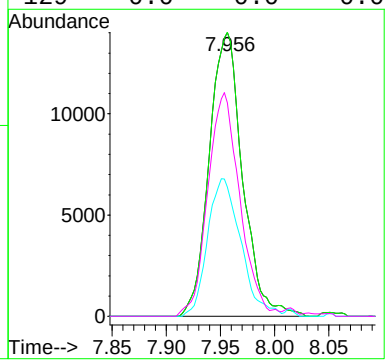


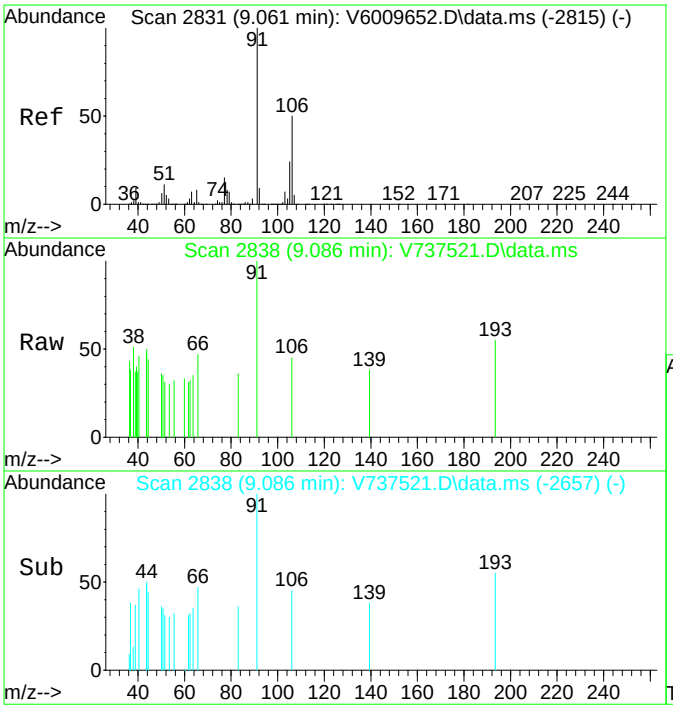


#59
Tetrachloroethylene
Concen: 2.37 ppb
RT: 7.956 min Scan# 2432
Delta R.T. -0.000 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion:166 Resp: 30105

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	0.0	0.0	0.0
129	0.0	0.0	0.0

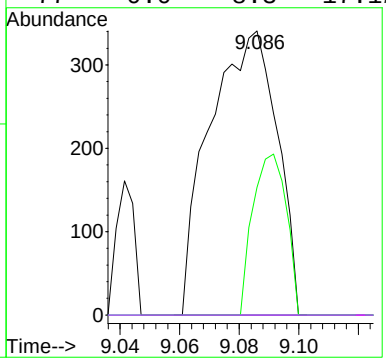


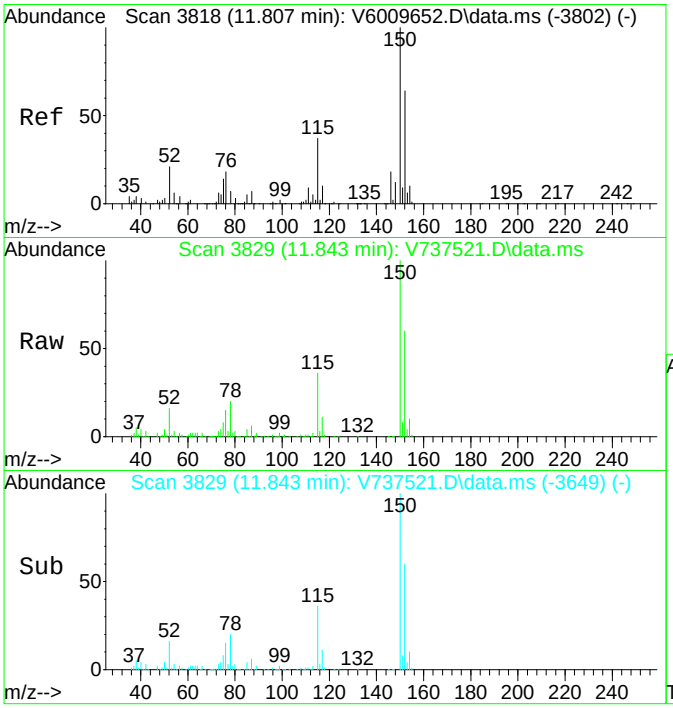


#66
p- & m-Xylenes
Concen: 0.46 ppb
RT: 9.086 min Scan# 2838
Delta R.T. 0.003 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 91 Resp: 533

Ion	Ratio	Lower	Upper
91	100		
106	28.1	31.3	65.1#
105	0.0	14.2	29.4#
77	0.0	8.3	17.1#

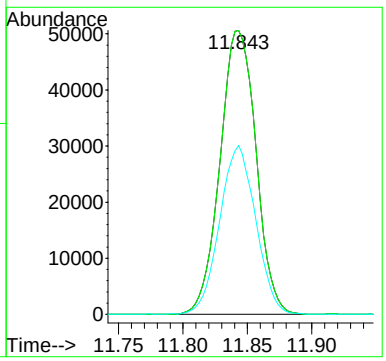


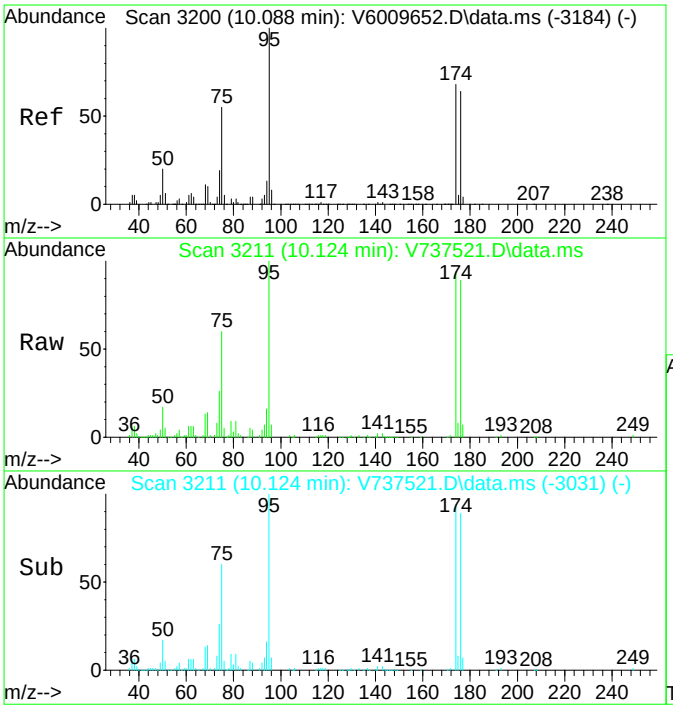


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.000 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion:152 Resp: 98419

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.6	33.7	101.0

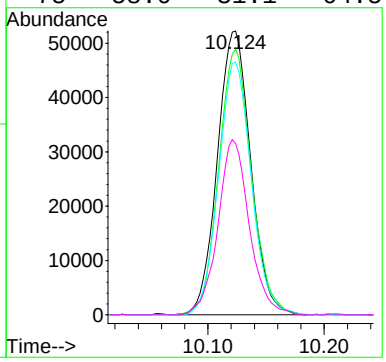


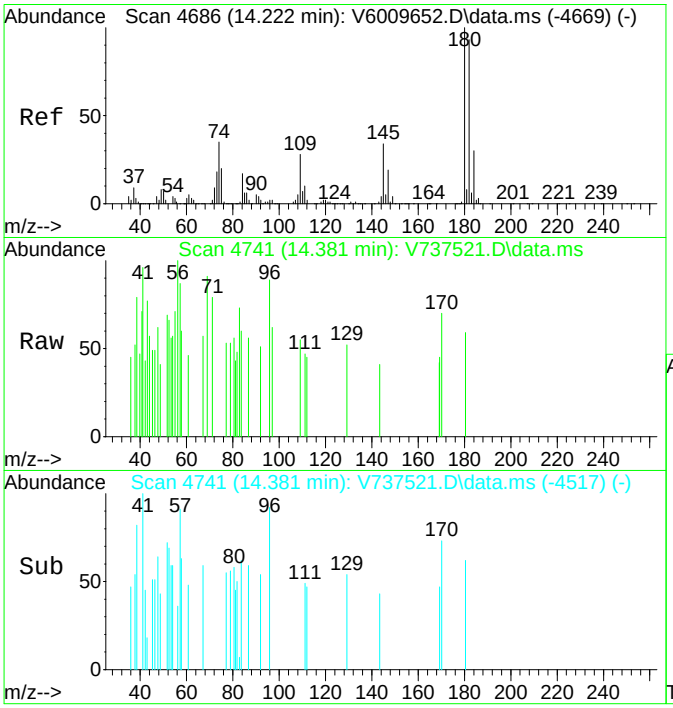


#73
p-Bromofluorobenzene (SURR)
Concen: 10.53 ppb
RT: 10.124 min Scan# 3211
Delta R.T. -0.000 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion: 95 Resp: 104173

Ion	Ratio	Lower	Upper
95	100		
174	92.0	49.1	102.1
176	87.5	47.7	99.1
75	58.0	31.1	64.5

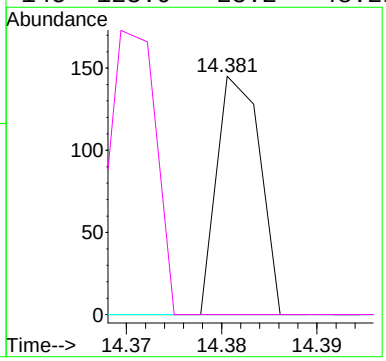




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.381 min Scan# 4741
Delta R.T. 0.122 min
Lab File: V737521.D
Acq: 22 Dec 2019 10:30 pm

Tgt Ion:180 Resp: 46

Ion	Ratio	Lower	Upper
180	100		
182	0.0	62.0	128.8#
74	39.1	18.9	39.1
145	123.9	23.2	48.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-FD

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-06 File ID: V737522.D

Sampled: 12/16/19 00:00 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 23:00

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-FD

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-06	File ID:	V737522.D
Sampled:	12/16/19 00:00	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 23:00
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	3.59	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.98	89.8	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.9	109	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	62599	5.822	72154	5.825	
ISTD: Chlorobenzene-d5	279992	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	94051	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737522.D
Acq On : 22 Dec 2019 11:00 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-06
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 24 09:49:43 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

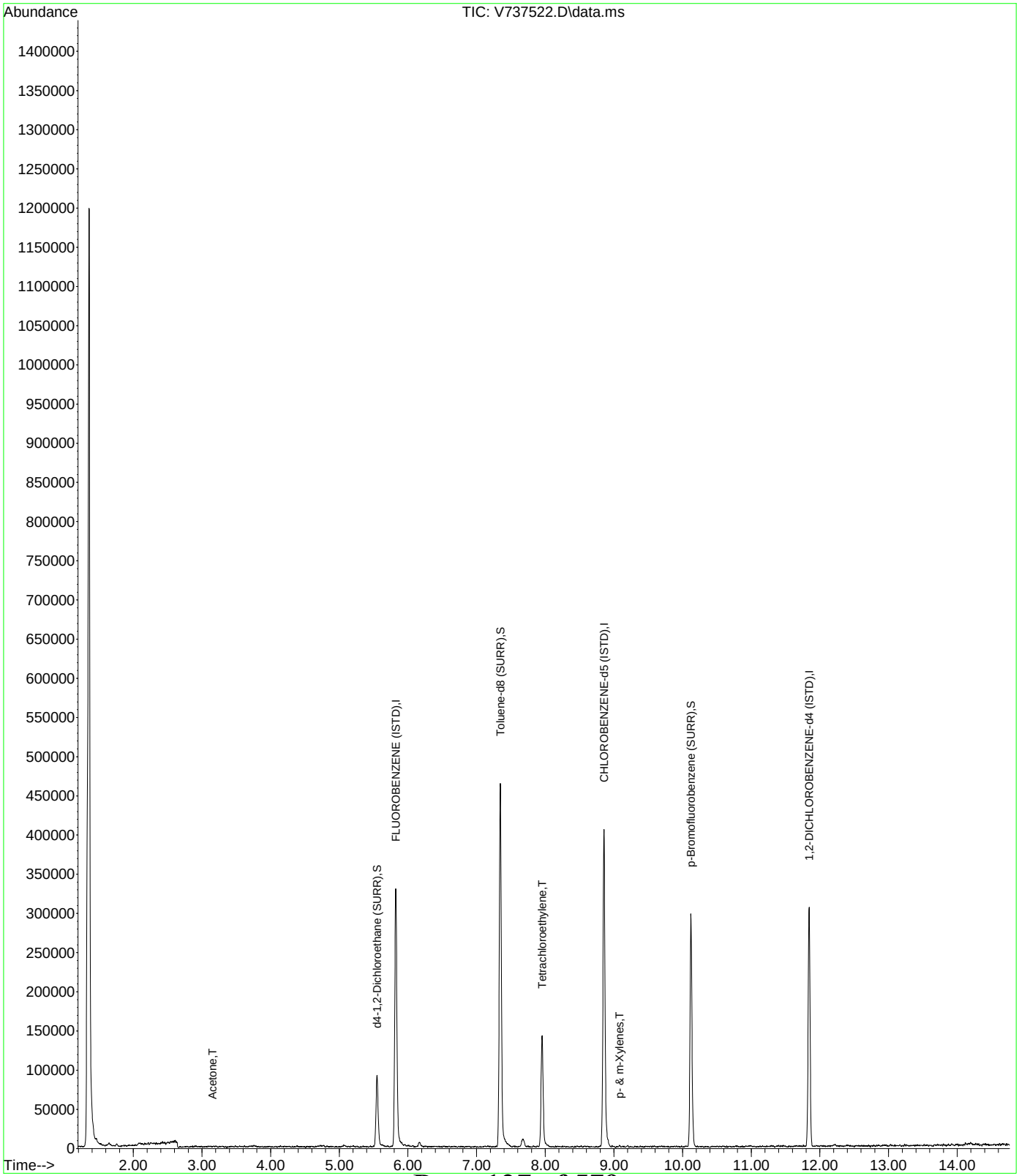
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.822	70	62599	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	279992	10.00	ppb	# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	94051	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.550	65	64608	8.98	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.80%			
53) Toluene-d8 (SURR)	7.344	98	370017	10.26	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.60%			
73) p-Bromofluorobenzene (...	10.121	95	102861	10.88	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.80%			
Target Compounds						Qvalue
6) Chloroethane	2.253	64	333	Below Cal		96
12) Acetone	3.152	43	343	0.28	ppb #	100
52) 4-Methyl-2-Pentanone	7.264	43	93	Below Cal	#	1
59) Tetrachloroethylene	7.954	166	43833	3.59	ppb #	100
66) p- & m-Xylenes	9.081	91	182	0.45	ppb #	30
99) 1,2,3-Trichlorobenzene	14.186	180	19	Below Cal	#	1

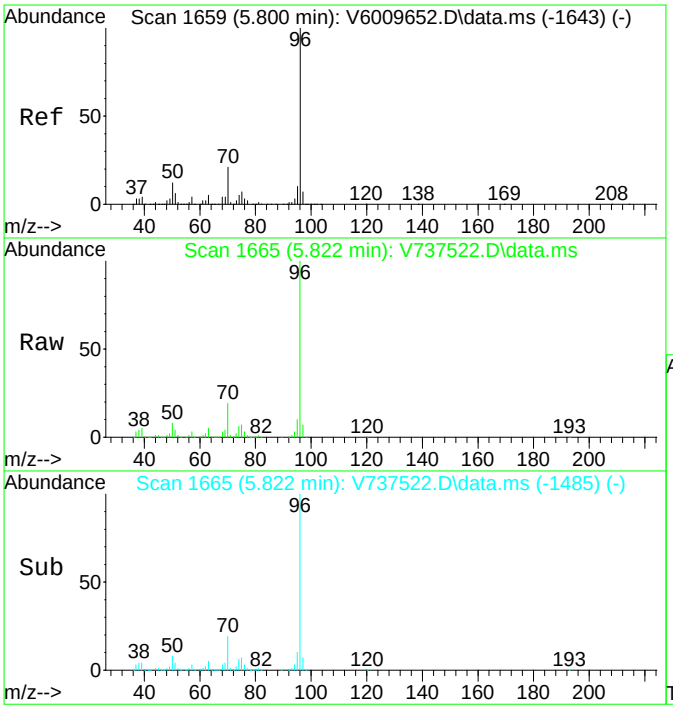
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737522.D
Acq On : 22 Dec 2019 11:00 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-06
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 24 09:49:43 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

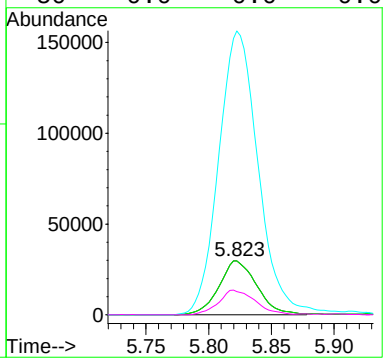


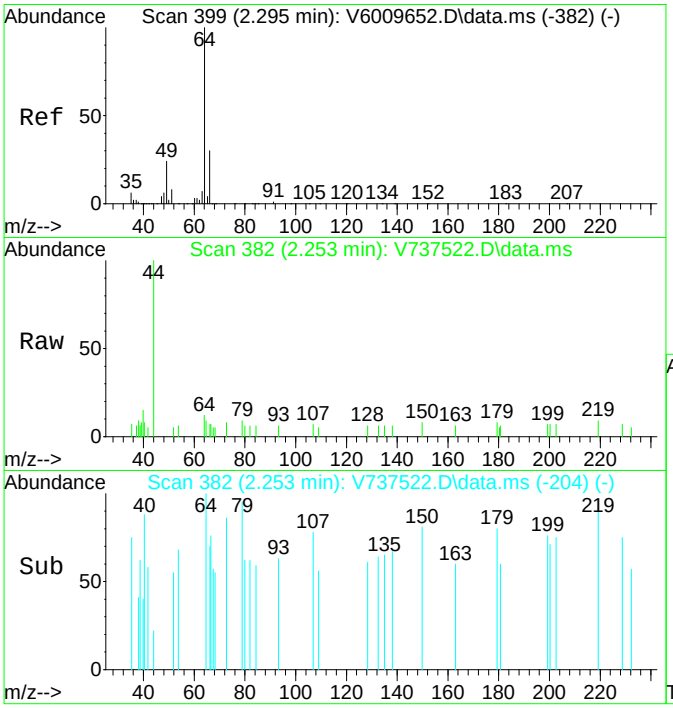


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.000 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 70 Resp: 62599

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	549.4	323.6	672.2
50	0.0	0.0	0.0

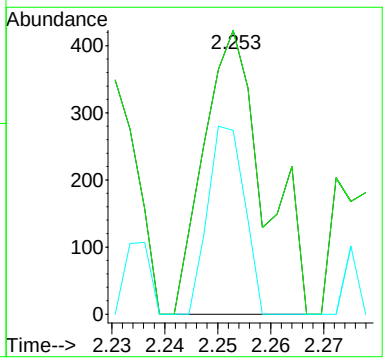


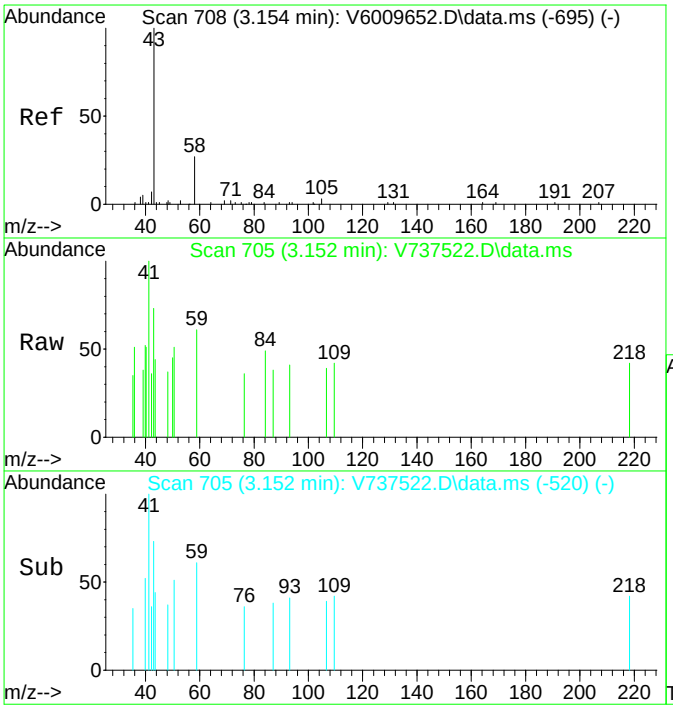


#6
Chloroethane
Concen: Below Cal
RT: 2.253 min Scan# 382
Delta R.T. -0.006 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 64 Resp: 333

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	40.5	20.6	42.8

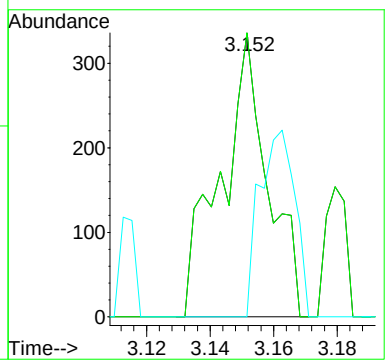


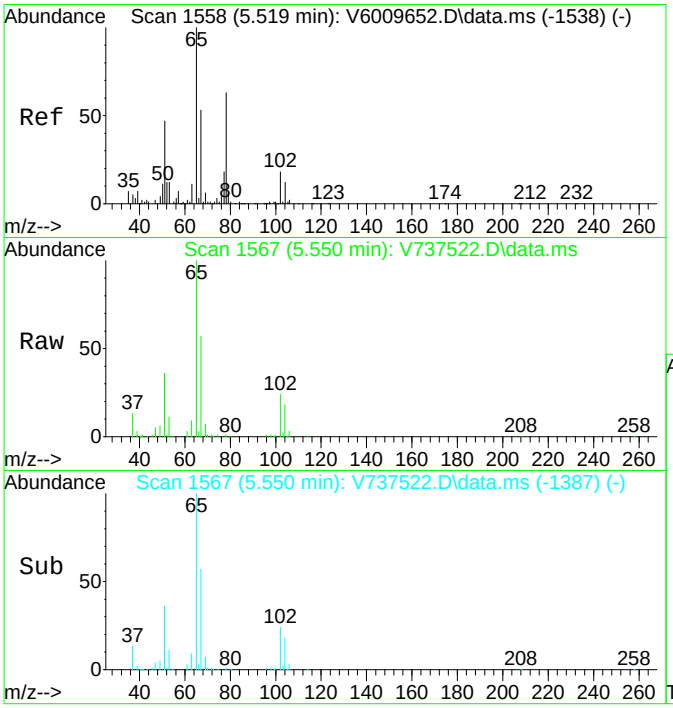


#12
Acetone
Concen: 0.28 ppb
RT: 3.152 min Scan# 705
Delta R.T. 0.014 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 43 Resp: 343

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	11.4	0.0	0.0#

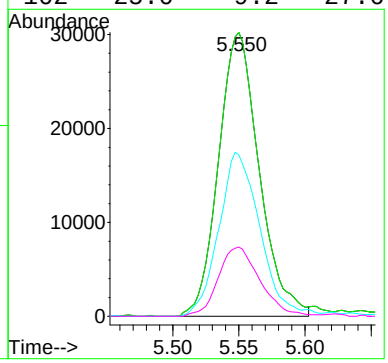


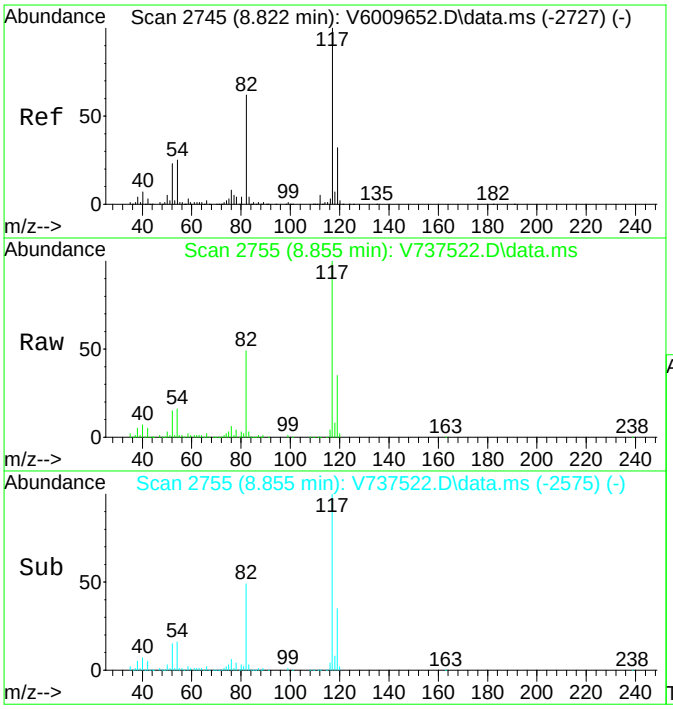


#35
d4-1,2-Dichloroethane (SURR)
Concen: 8.98 ppb
RT: 5.550 min Scan# 1567
Delta R.T. 0.000 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 65 Resp: 64608

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	0.0	33.0	68.6#
102	25.0	9.2	27.6

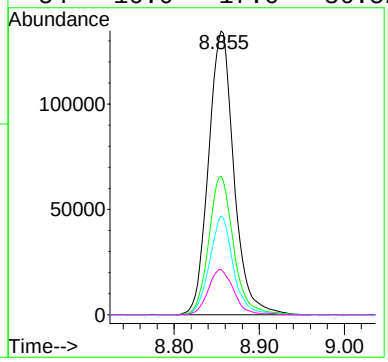


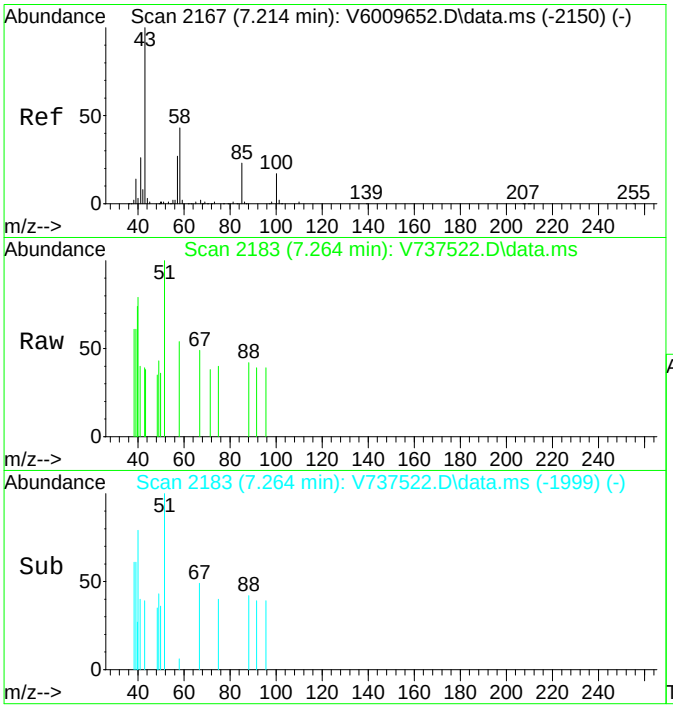


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion:117 Resp: 279992

Ion	Ratio	Lower	Upper
117	100		
82	47.7	35.9	74.7
119	32.5	20.8	43.2
54	16.0	17.6	36.5#

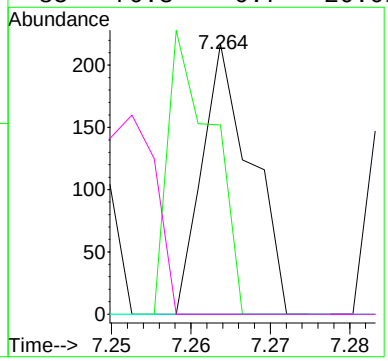


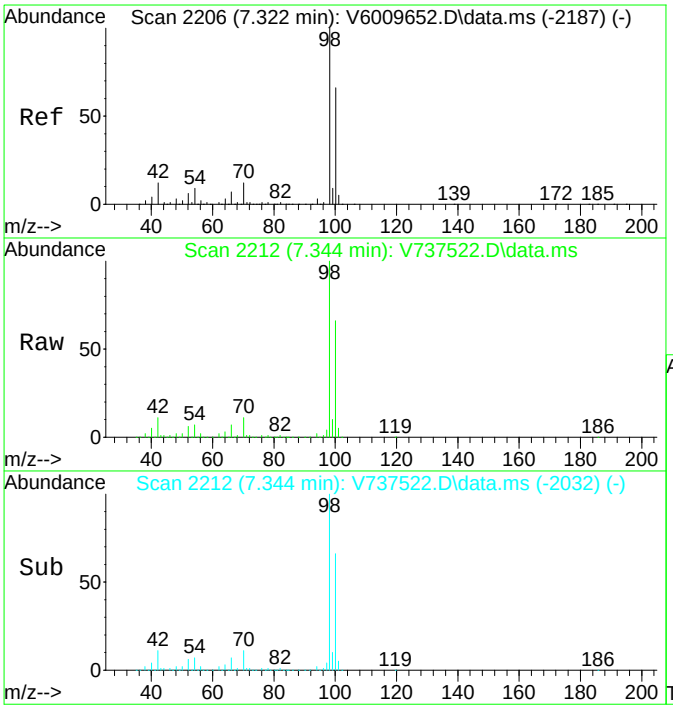


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.264 min Scan# 2183
Delta R.T. 0.011 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 43 Resp: 93

Ion	Ratio	Lower	Upper
43	100		
58	95.7	23.8	49.4#
100	0.0	5.8	17.3#
85	76.3	6.7	20.0#

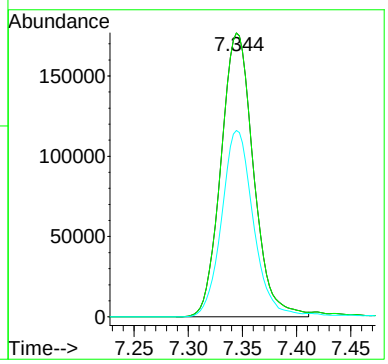


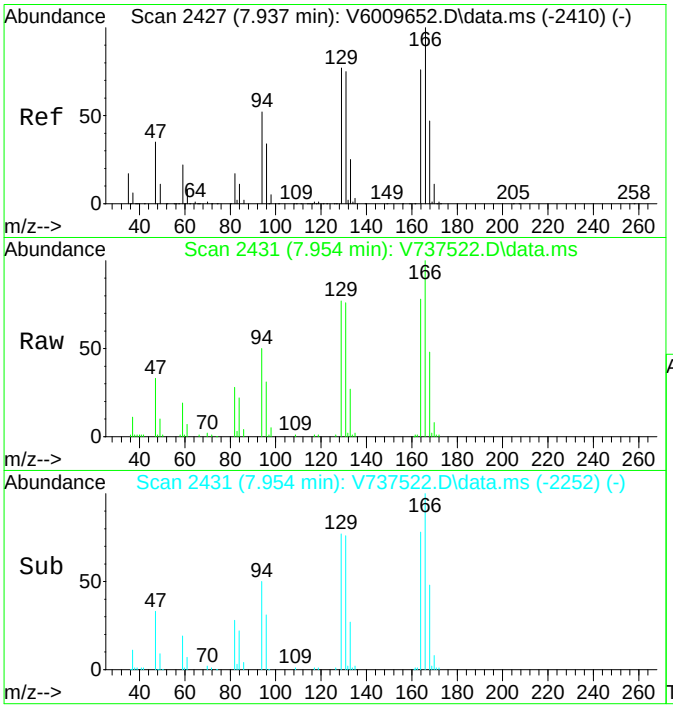


#53
Toluene-d8 (SURR)
Concen: 10.26 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 98 Resp: 370017

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	63.8	43.4	90.2

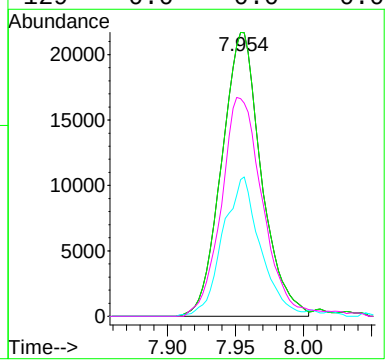


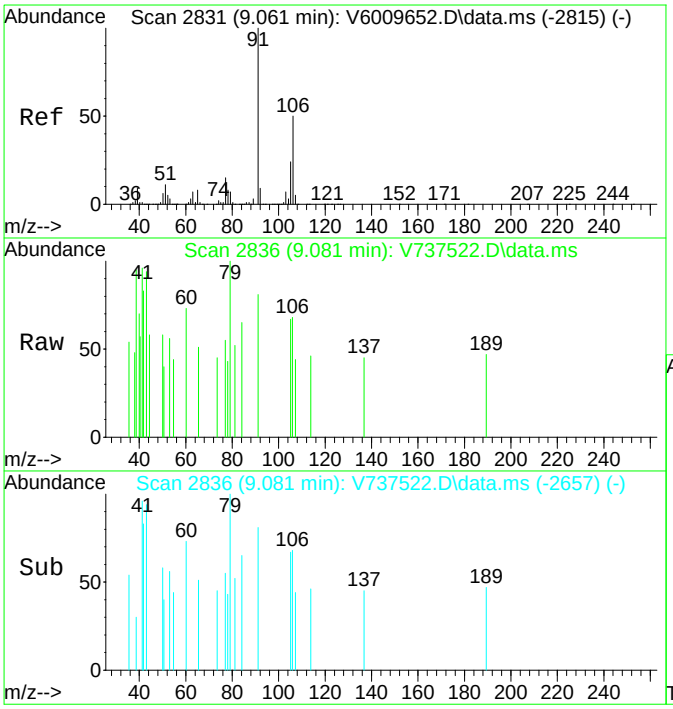


#59
Tetrachloroethylene
Concen: 3.59 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion:166 Resp: 43833

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	46.7	0.0	0.0#
129	0.0	0.0	0.0

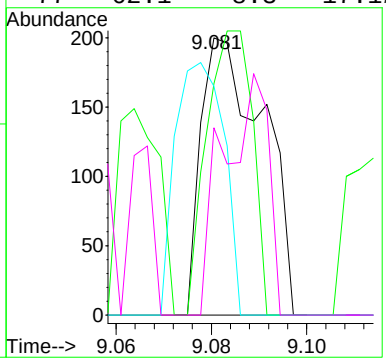


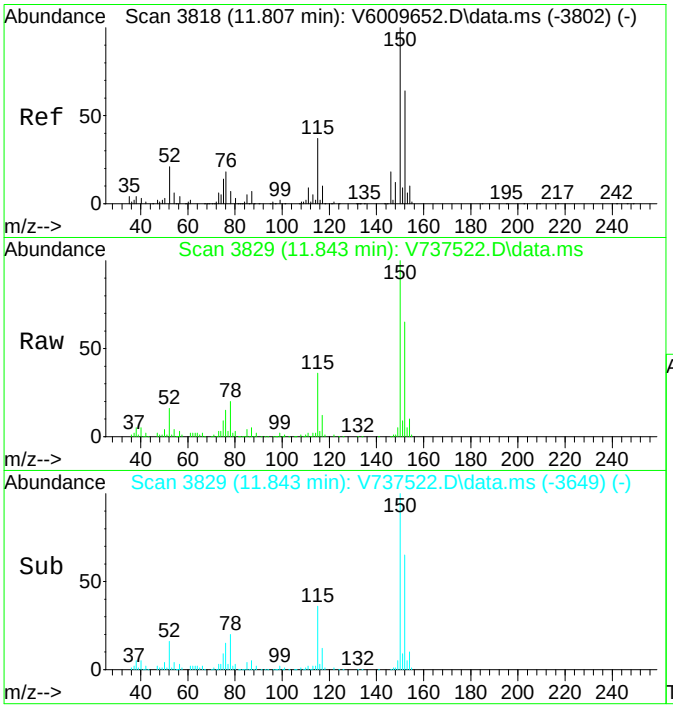


#66
p- & m-Xylenes
Concen: 0.45 ppb
RT: 9.081 min Scan# 2836
Delta R.T. -0.003 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 91 Resp: 182

Ion	Ratio	Lower	Upper
91	100		
106	75.3	31.3	65.1#
105	70.9	14.2	29.4#
77	62.1	8.3	17.1#

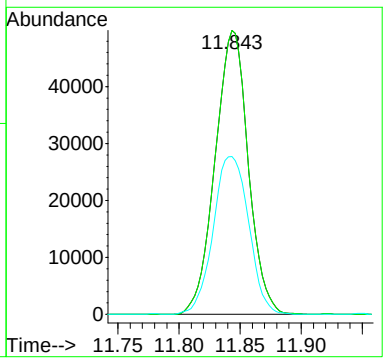


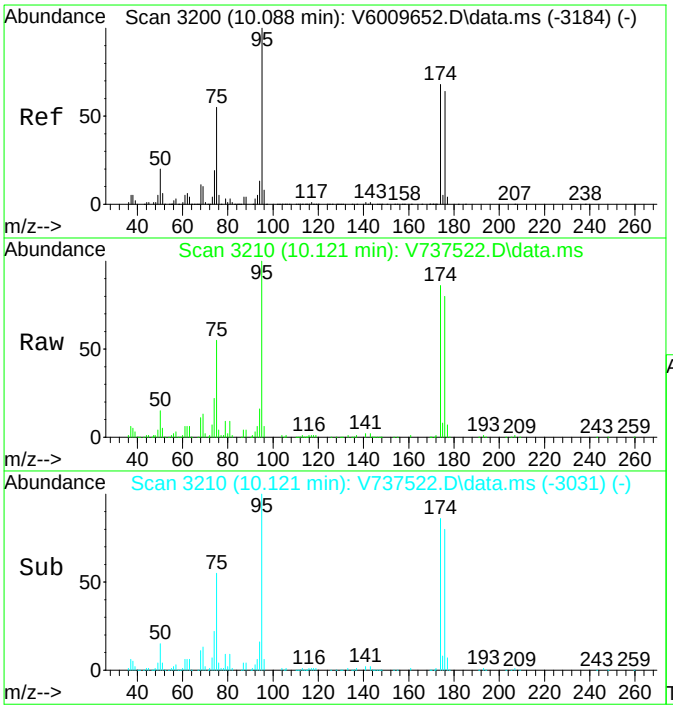


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion:152 Resp: 94051

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.5	33.7	101.0

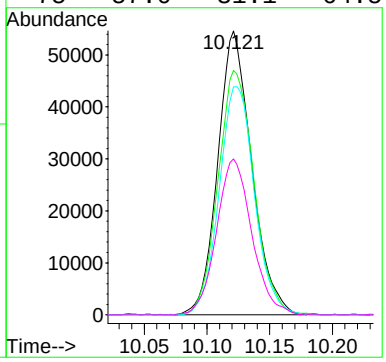


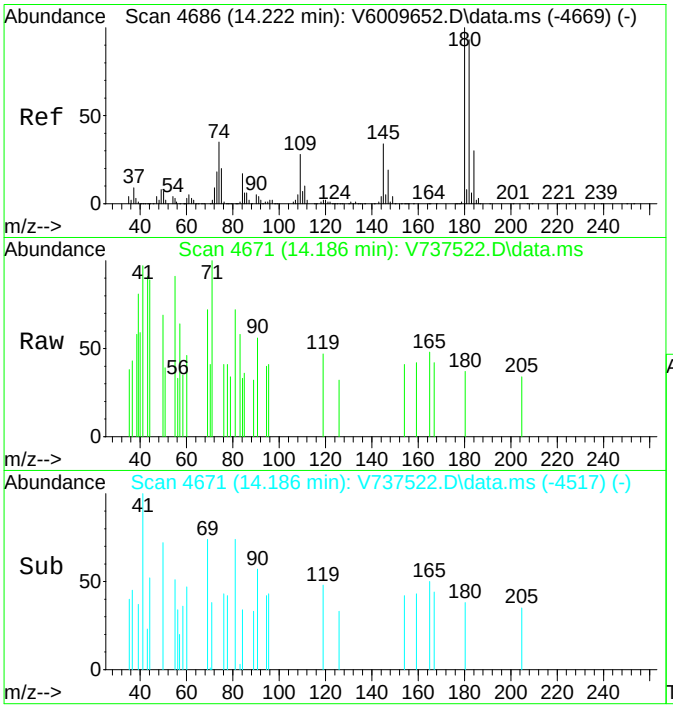


#73
p-Bromofluorobenzene (SURR)
Concen: 10.88 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion: 95 Resp: 102861

Ion	Ratio	Lower	Upper
95	100		
174	91.1	49.1	102.1
176	83.4	47.7	99.1
75	57.0	31.1	64.5

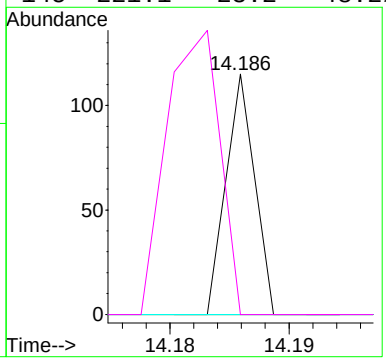




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.186 min Scan# 4671
Delta R.T. -0.072 min
Lab File: V737522.D
Acq: 22 Dec 2019 11:00 pm

Tgt Ion:180 Resp: 19

Ion	Ratio	Lower	Upper
180	100		
182	457.9	62.0	128.8#
74	89.5	18.9	39.1#
145	221.1	23.2	48.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-EB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-07	File ID:	V737523.D
Sampled:	12/16/19 15:30	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 23:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-EB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-07	File ID:	V737523.D
Sampled:	12/16/19 15:30	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 23:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021
Instrument:	MSVOA7				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.73	97.3	69 - 130	
SURR: Toluene-d8	10.0	9.94	99.4	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	63654	5.823	72154	5.825	
ISTD: Chlorobenzene-d5	296183	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	100162	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737523.D
Acq On : 22 Dec 2019 11:29 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-07
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 24 09:50:31 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

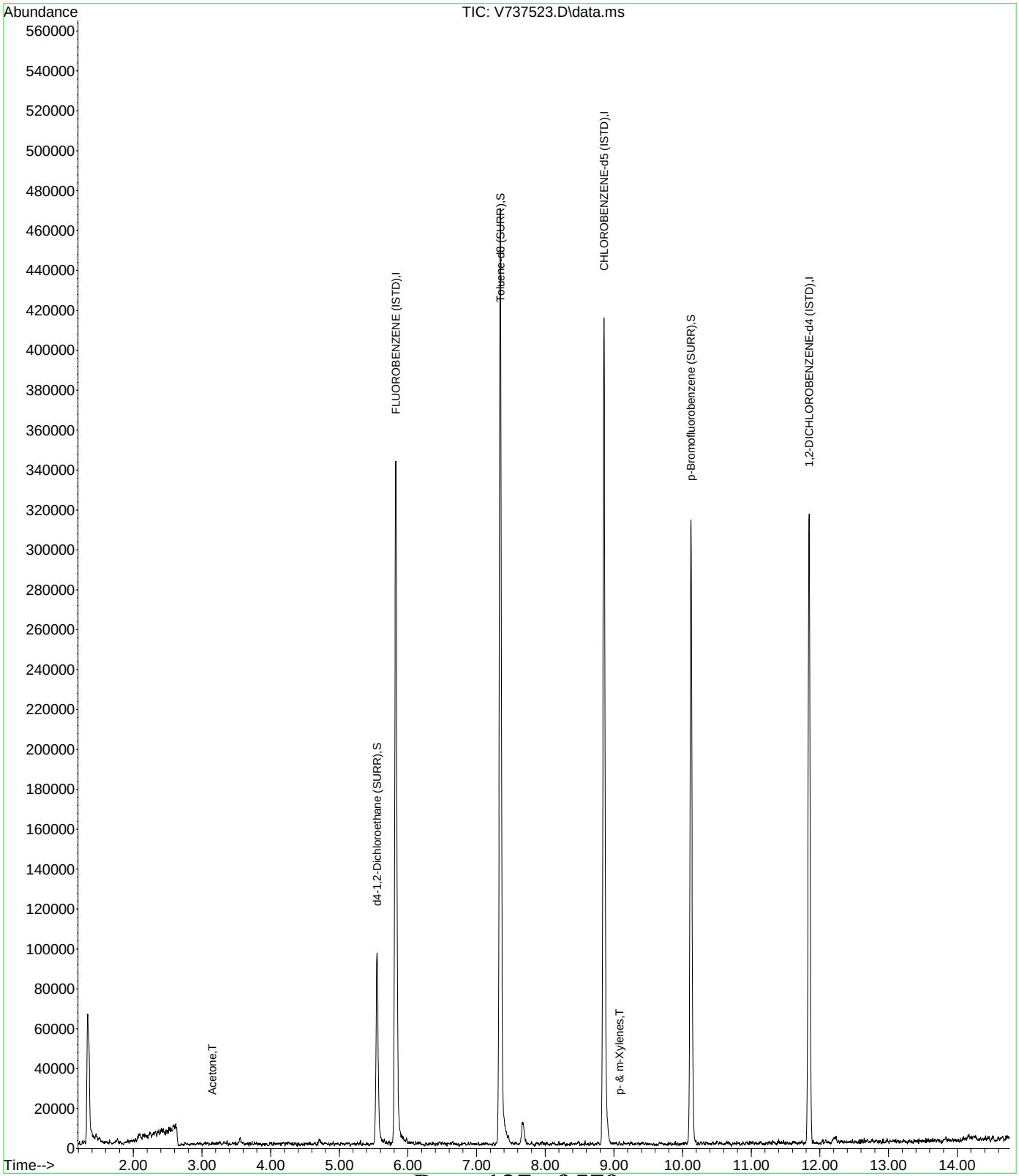
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.823	70	63654	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	296183	10.00	ppb		# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	100162	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	71147	9.73	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.30%				
53) Toluene-d8 (SURR)	7.344	98	379305	9.94	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.40%				
73) p-Bromofluorobenzene (...	10.121	95	107994	10.72	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.20%				
Target Compounds							Qvalue
6) Chloroethane	2.208	64	80	Below Cal			99
12) Acetone	3.149	43	636	0.51	ppb	#	100
52) 4-Methyl-2-Pentanone	7.244	43	113	Below Cal		#	26
66) p- & m-Xylenes	9.081	91	298	0.45	ppb	#	69
99) 1,2,3-Trichlorobenzene	14.050	180	46	Below Cal		#	1

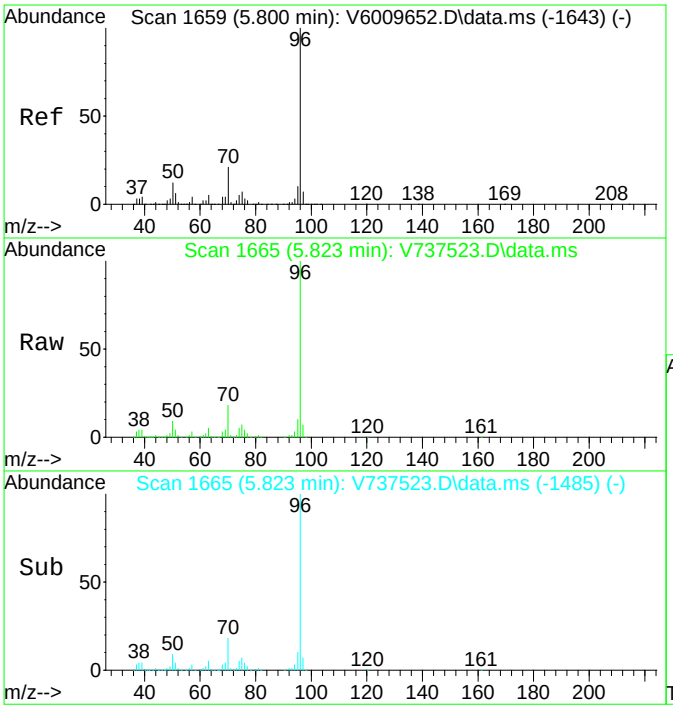
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737523.D
Acq On : 22 Dec 2019 11:29 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-07
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 24 09:50:31 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

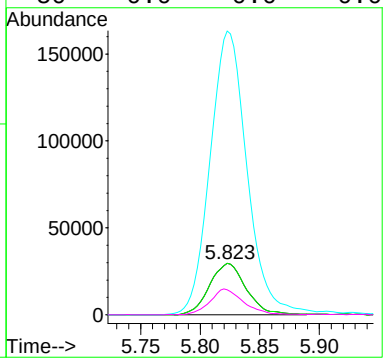


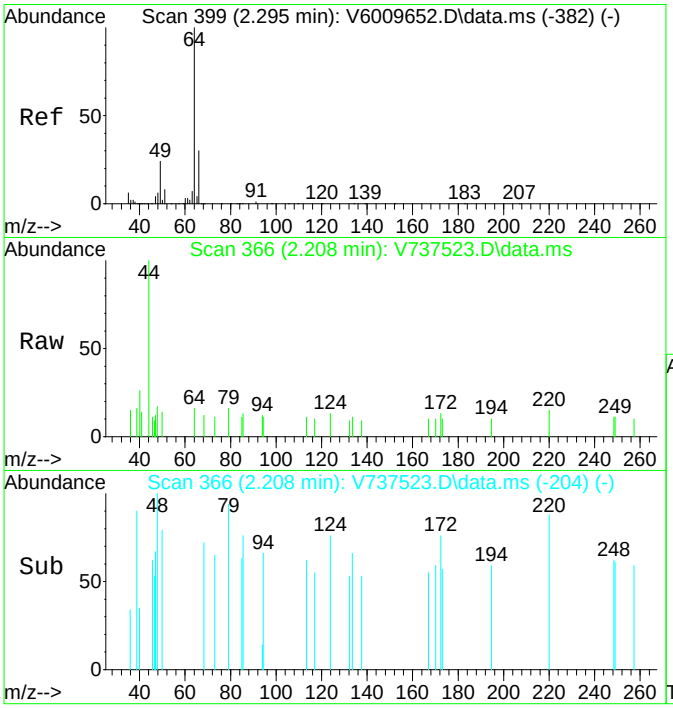


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.823 min Scan# 1665
Delta R.T. 0.001 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 70 Resp: 63654

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	554.0	323.6	672.2
50	0.0	0.0	0.0

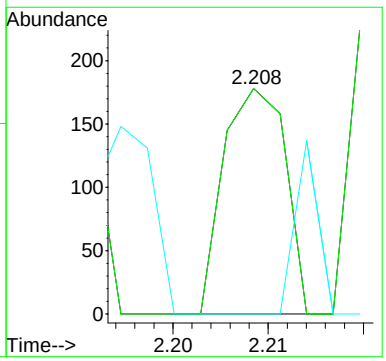


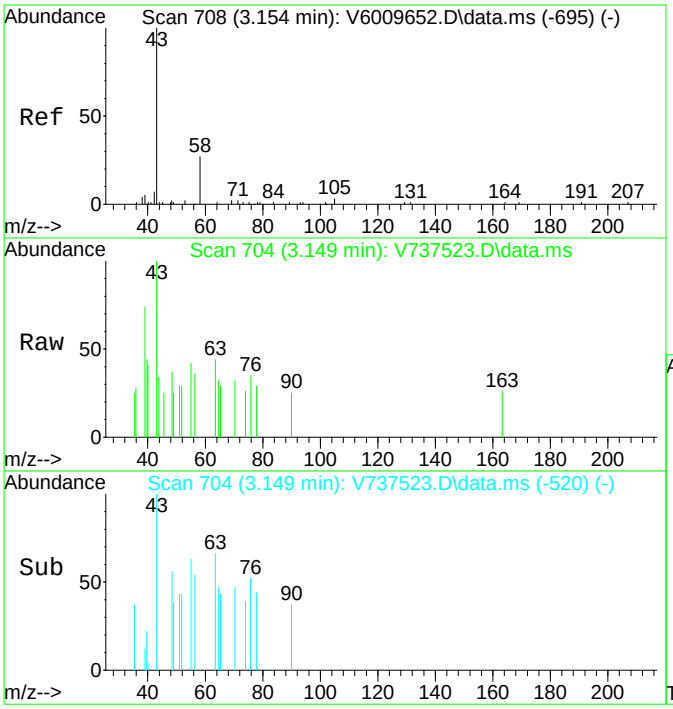


#6
Chloroethane
Concen: Below Cal
RT: 2.208 min Scan# 366
Delta R.T. -0.050 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 64 Resp: 80

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	28.7	20.6	42.8

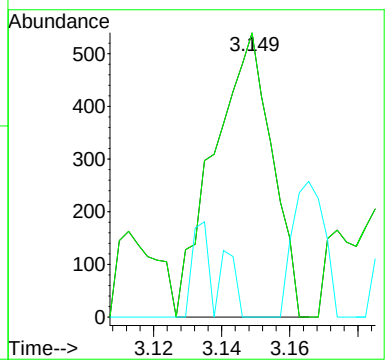


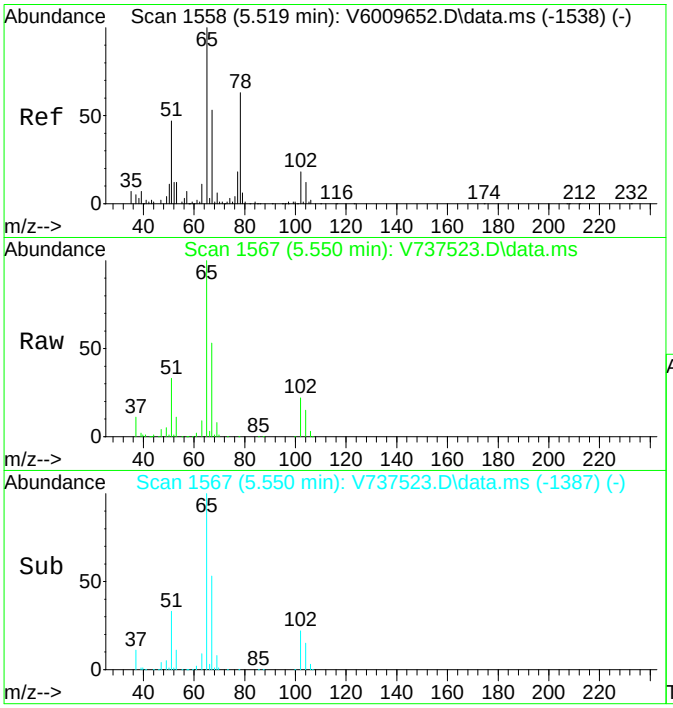


#12
Acetone
Concen: 0.51 ppb
RT: 3.149 min Scan# 704
Delta R.T. 0.011 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 43 Resp: 636

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	9.1	0.0	0.0#

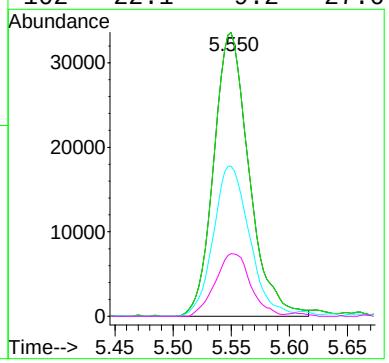


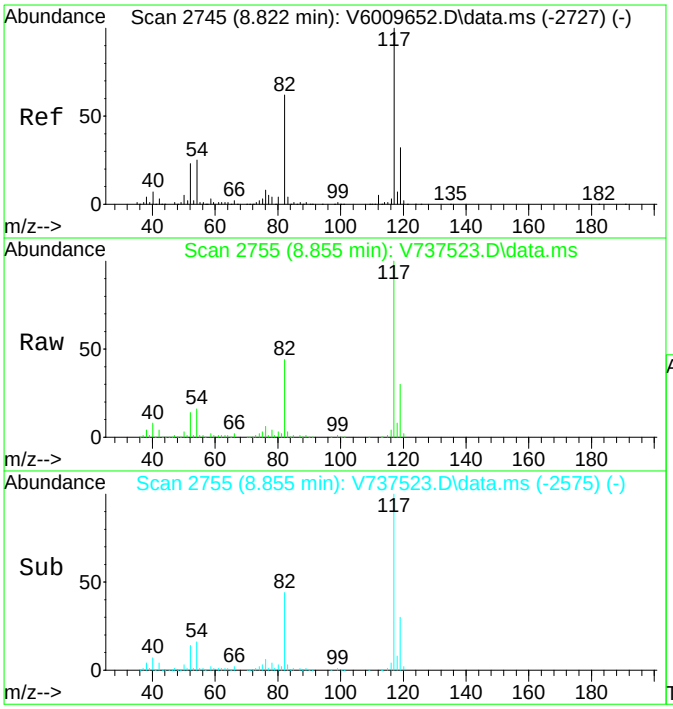


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.73 ppb
RT: 5.550 min Scan# 1567
Delta R.T. 0.000 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 65 Resp: 71147

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	54.0	33.0	68.6
102	22.1	9.2	27.6

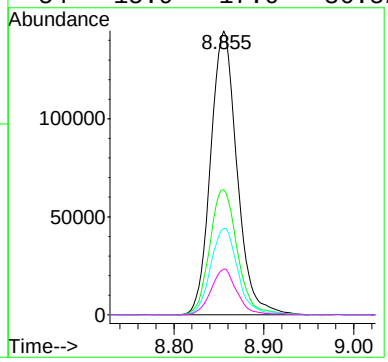


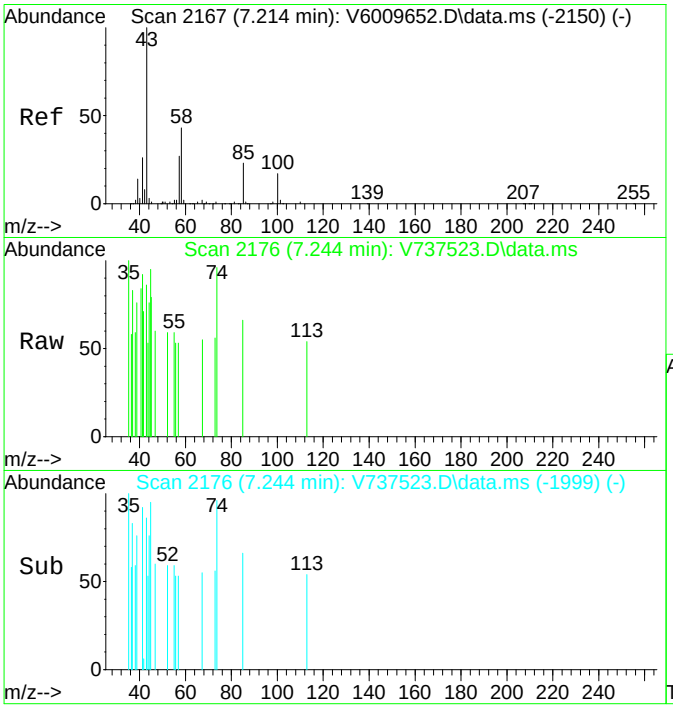


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion:117 Resp: 296183

Ion	Ratio	Lower	Upper
117	100		
82	46.2	35.9	74.7
119	31.5	20.8	43.2
54	15.9	17.6	36.5#

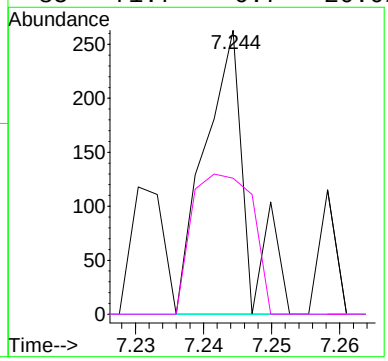


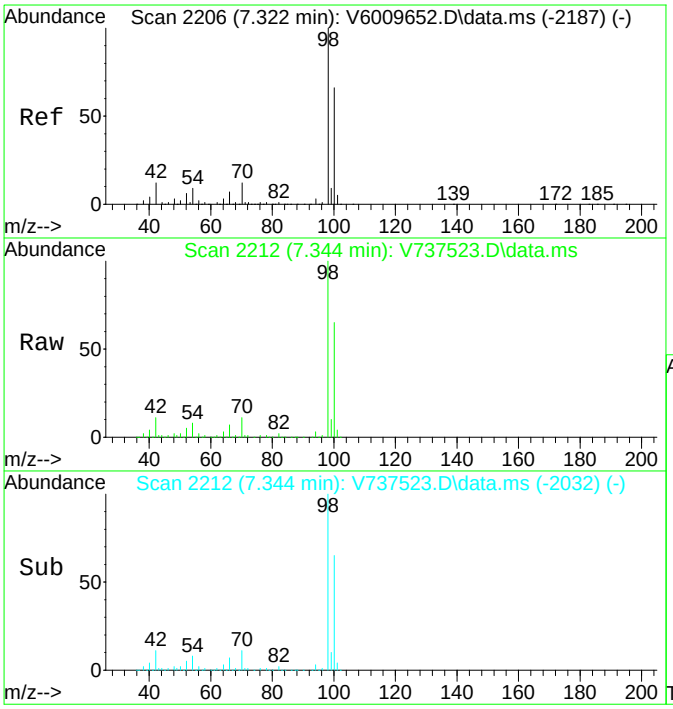


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.244 min Scan# 2176
Delta R.T. -0.008 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 43 Resp: 113

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.8	49.4#
100	0.0	5.8	17.3#
85	71.7	6.7	20.0#

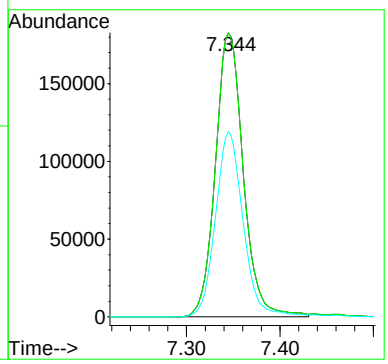


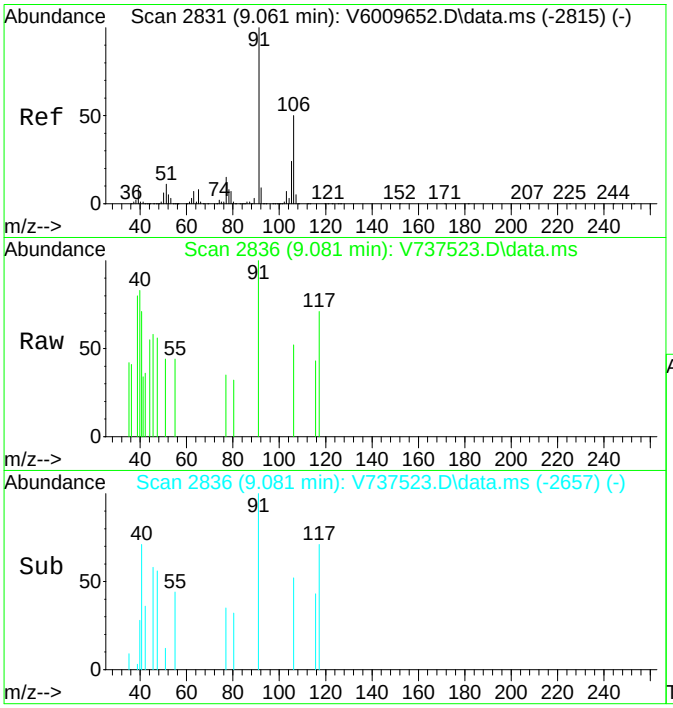


#53
Toluene-d8 (SURR)
Concen: 9.94 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 98 Resp: 379305

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.5	43.4	90.2

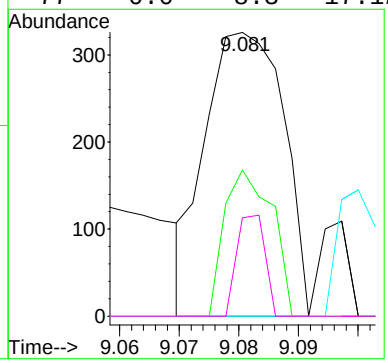


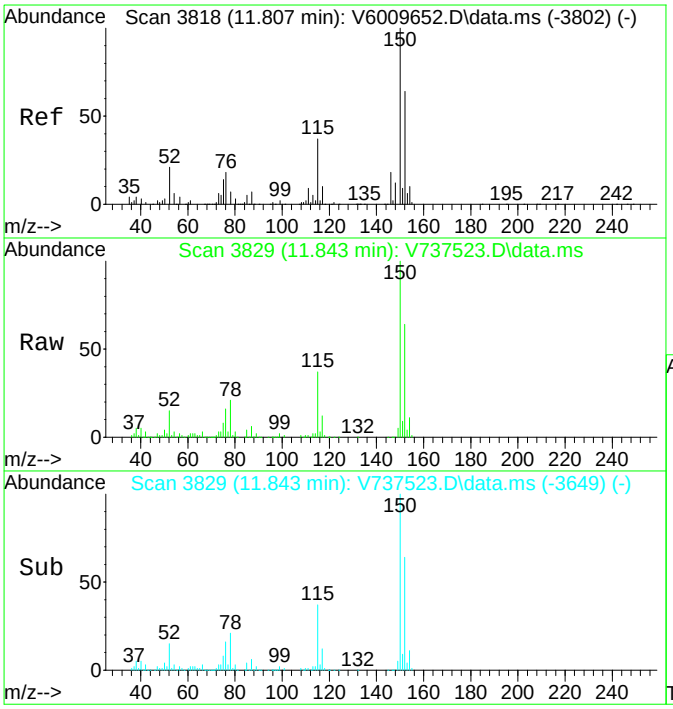


#66
p- & m-Xylenes
Concen: 0.45 ppb
RT: 9.081 min Scan# 2836
Delta R.T. -0.003 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 91 Resp: 298

Ion	Ratio	Lower	Upper
91	100		
106	31.5	31.3	65.1
105	0.0	14.2	29.4#
77	0.0	8.3	17.1#

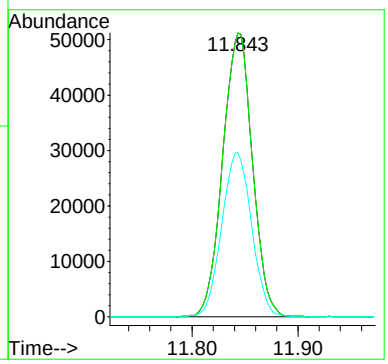


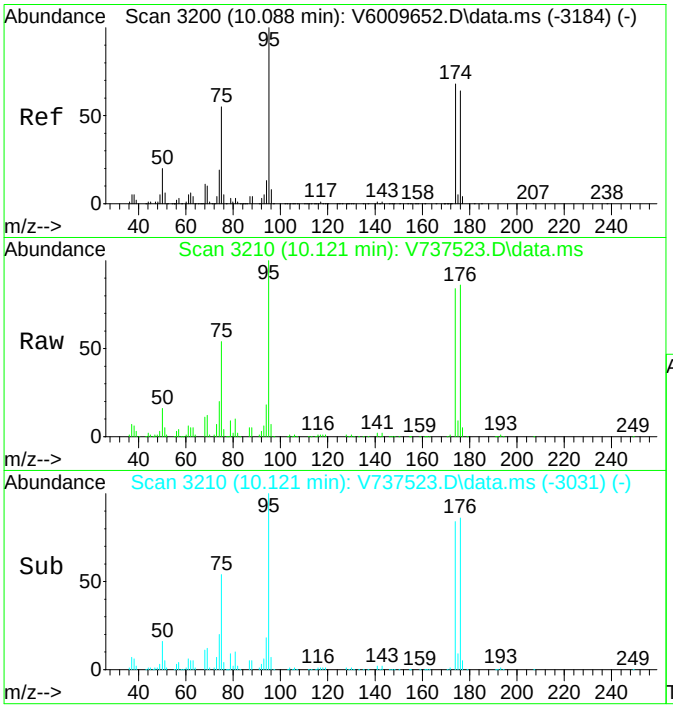


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion:152 Resp: 100162

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	58.2	33.7	101.0

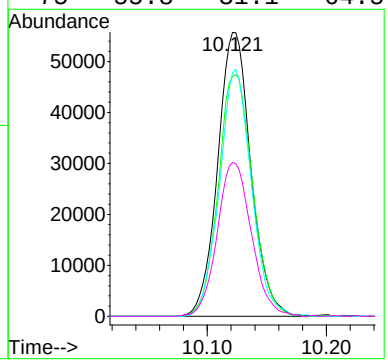


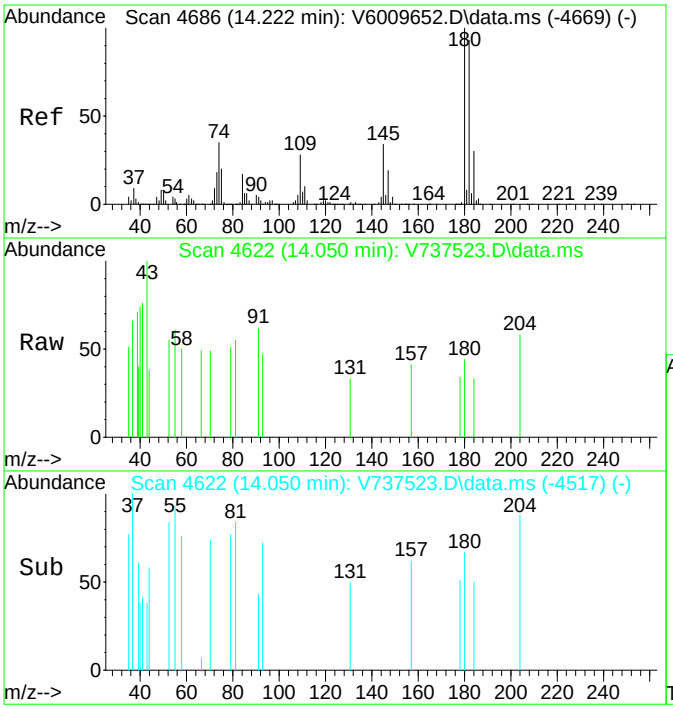


#73
p-Bromofluorobenzene (SURR)
Concen: 10.72 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion: 95 Resp: 107994

Ion	Ratio	Lower	Upper
95	100		
174	88.0	49.1	102.1
176	84.0	47.7	99.1
75	55.8	31.1	64.5

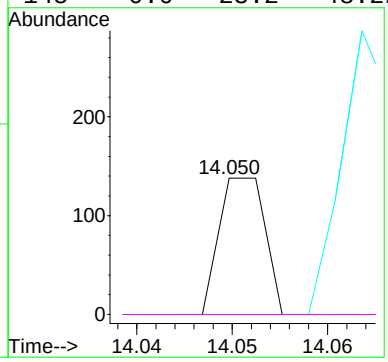




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.050 min Scan# 4622
Delta R.T. -0.209 min
Lab File: V737523.D
Acq: 22 Dec 2019 11:29 pm

Tgt Ion:180 Resp: 46

Ion	Ratio	Lower	Upper
180	100		
182	0.0	62.0	128.8#
74	228.3	18.9	39.1#
145	0.0	23.2	48.2#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-TB

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Matrix: Water Laboratory ID: 19L0677-08 File ID: V737524.D

Sampled: 12/16/19 00:00 Prepared: 12/22/19 07:30 Analyzed: 12/22/19 23:59

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	U
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U
110-82-7	Cyclohexane	1	0.500	U
124-48-1	Dibromochloromethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.320	J
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

KMW-TB

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	19L0677-08	File ID:	V737524.D
Sampled:	12/16/19 00:00	Prepared:	12/22/19 07:30	Analyzed:	12/22/19 23:59
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

Batch: BL91221 Sequence: Y9L2401 Calibration: YJ90021 Instrument: MSVOA7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
75-09-2	Methylene chloride	1	2.00	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
100-42-5	Styrene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.60	96.0	69 - 130	
SURR: Toluene-d8	10.0	9.95	99.5	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	59312	5.823	72154	5.825	
ISTD: Chlorobenzene-d5	274113	8.855	338633	8.855	
ISTD: 1,2-Dichlorobenzene-d4	90777	11.843	124396	11.843	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737524.D
Acq On : 22 Dec 2019 11:59 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-08
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 24 09:52:21 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

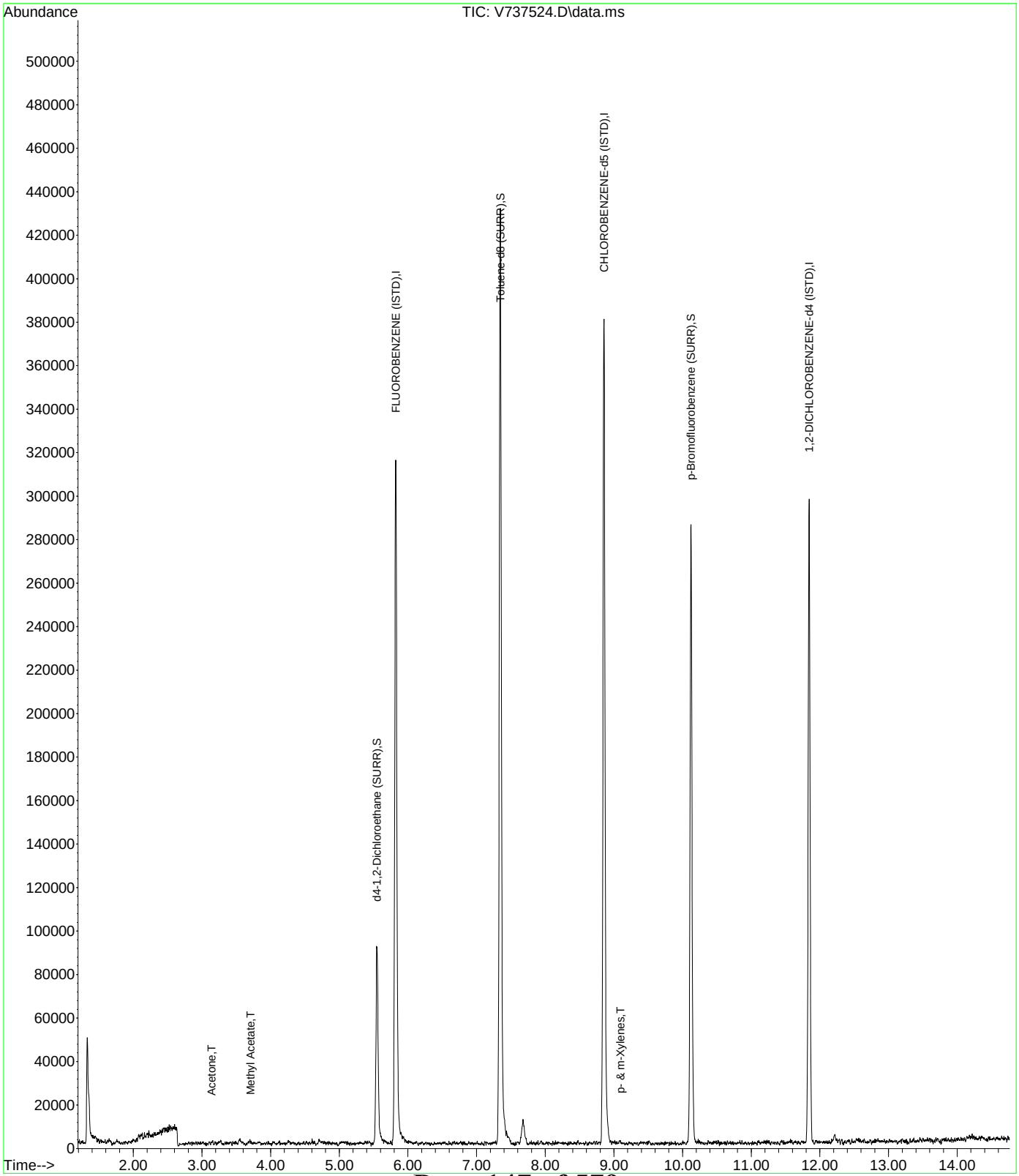
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.823	70	59312	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	274113	10.00	ppb	# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	90777	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.547	65	65460	9.60	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.00%			
53) Toluene-d8 (SURR)	7.344	98	351324	9.95	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.50%			
73) p-Bromofluorobenzene (...	10.121	95	96762	10.60	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.00%			
Target Compounds						Qvalue
6) Chloroethane	2.197	64	256	Below Cal		96
12) Acetone	3.138	43	450	0.39	ppb #	100
15) Methyl Acetate	3.705	43	190	0.32	ppb	97
52) 4-Methyl-2-Pentanone	7.253	43	168	Below Cal	#	74
66) p- & m-Xylenes	9.094	91	353	0.46	ppb #	55
99) 1,2,3-Trichlorobenzene	14.222	180	41	Below Cal	#	18

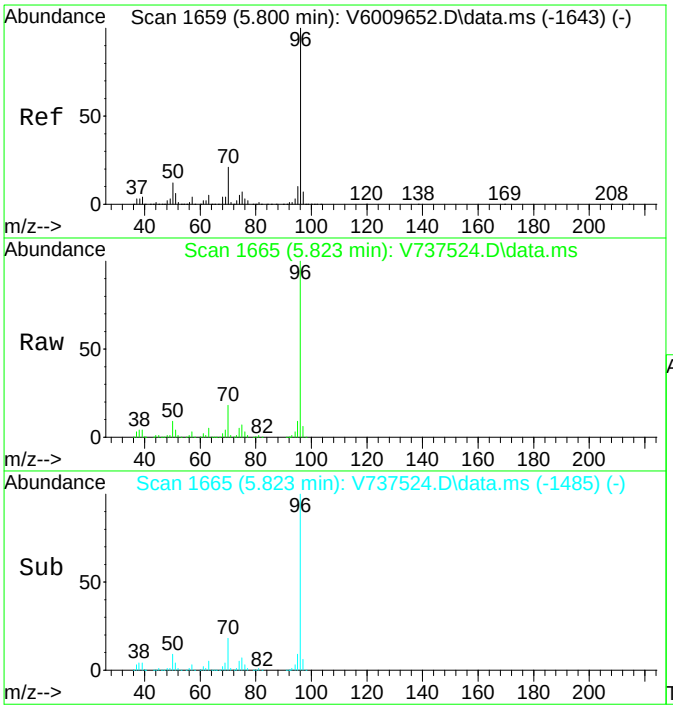
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737524.D
Acq On : 22 Dec 2019 11:59 pm
InstName : MSVOA7
Operator : SS
Sample : 19L0677-08
Misc : QBV7122219A 8260 LOW M A
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 24 09:52:21 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

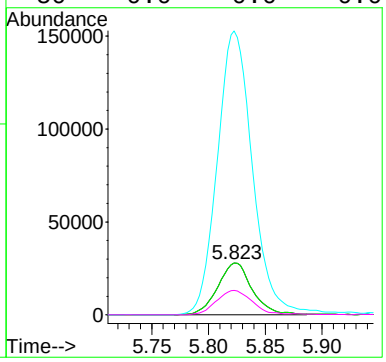


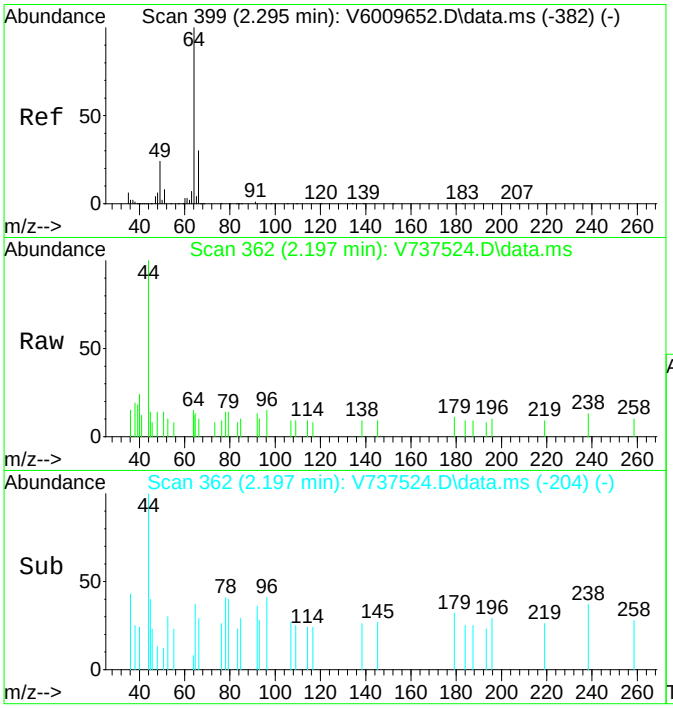


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.823 min Scan# 1665
Delta R.T. 0.001 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 70 Resp: 59312

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	560.1	323.6	672.2
50	0.0	0.0	0.0

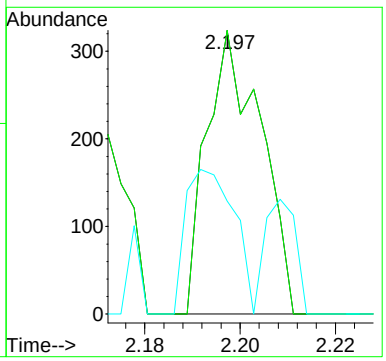


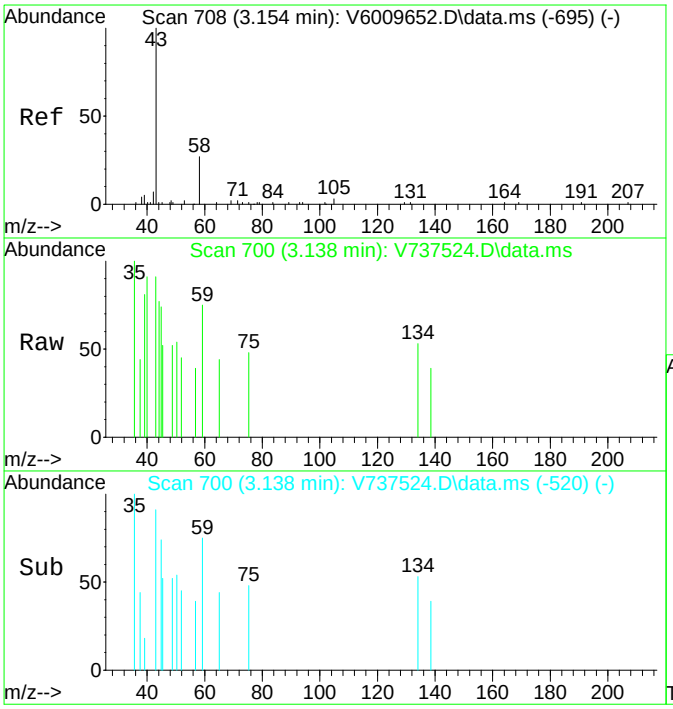


#6
Chloroethane
Concen: Below Cal
RT: 2.197 min Scan# 362
Delta R.T. -0.061 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 64 Resp: 256

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	23.0	20.6	42.8

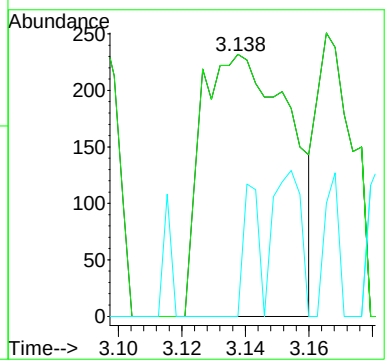


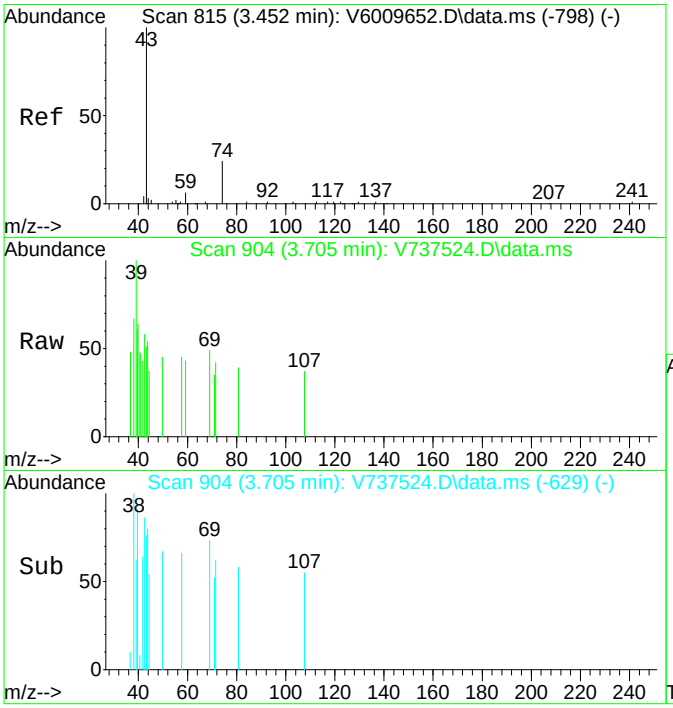


#12
Acetone
Concen: 0.39 ppb
RT: 3.138 min Scan# 700
Delta R.T. -0.000 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 43 Resp: 450

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	0.0	0.0	0.0

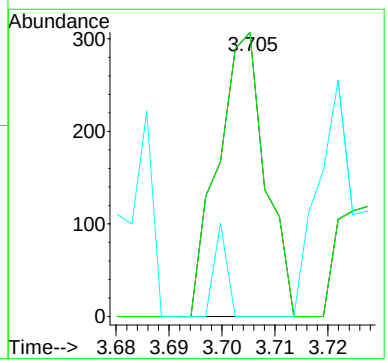


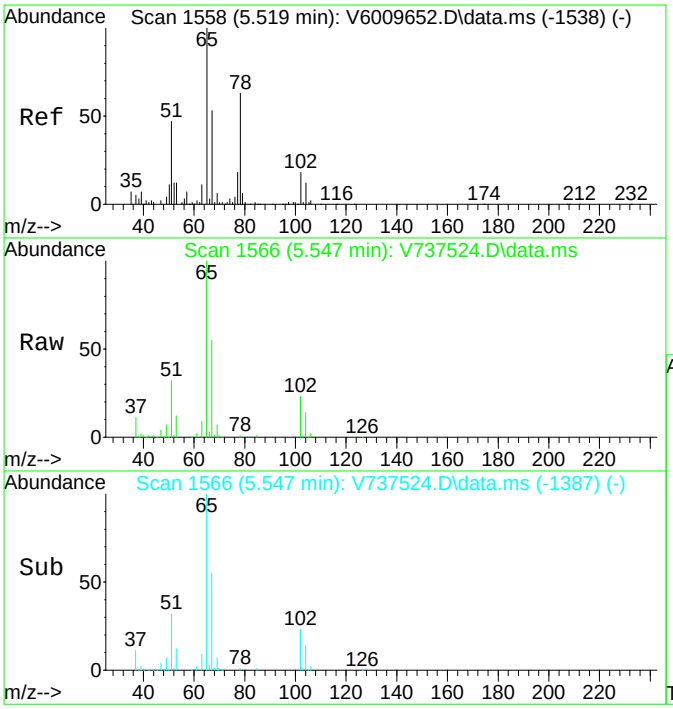


#15
Methyl Acetate
Concen: 0.32 ppb
RT: 3.705 min Scan# 904
Delta R.T. 0.264 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 43 Resp: 190

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	8.9	8.5	25.5

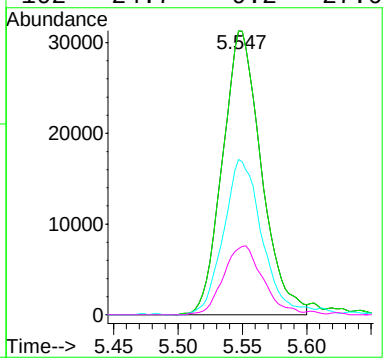


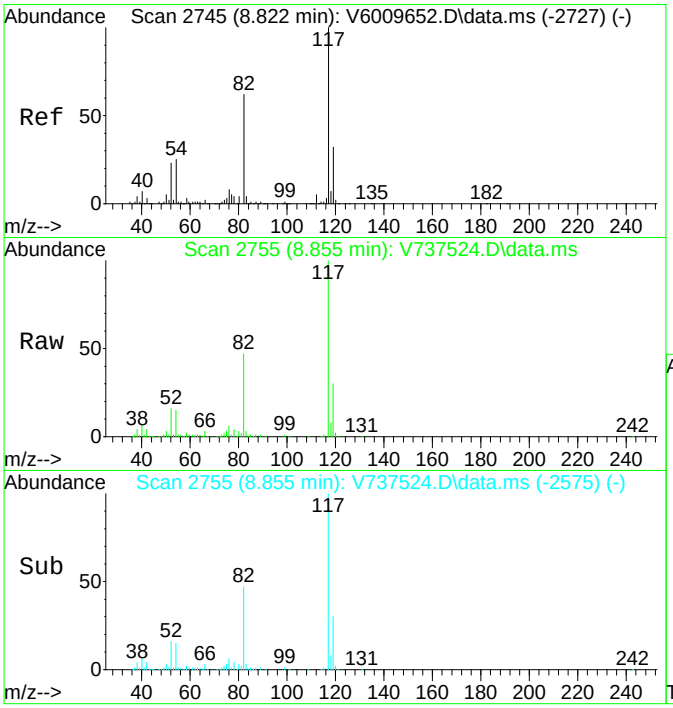


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.60 ppb
RT: 5.547 min Scan# 1566
Delta R.T. -0.003 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 65 Resp: 65460

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	54.4	33.0	68.6
102	24.7	9.2	27.6

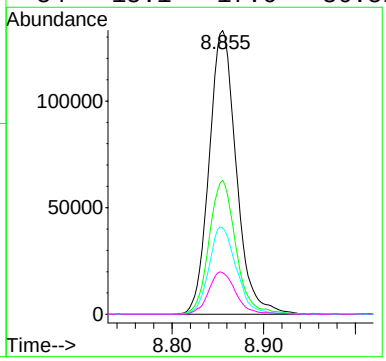


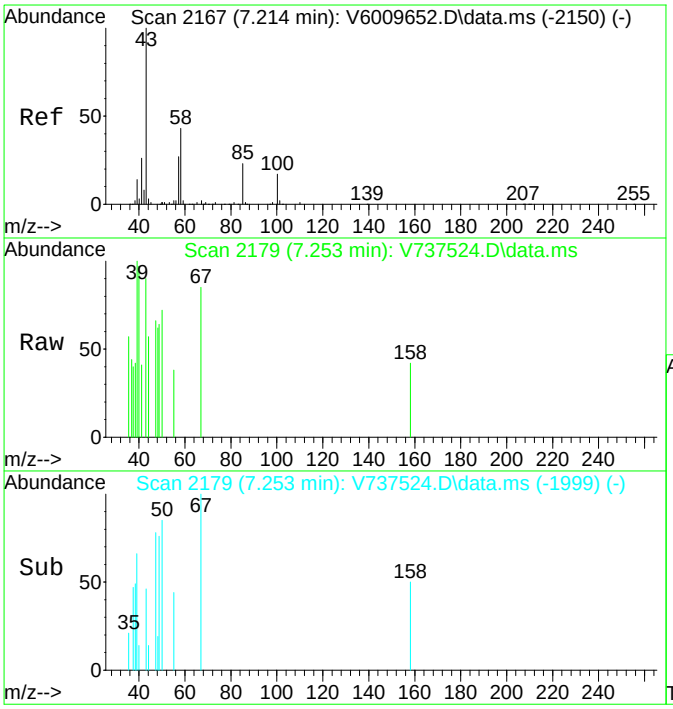


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion:117 Resp: 274113

Ion	Ratio	Lower	Upper
117	100		
82	46.6	35.9	74.7
119	31.1	20.8	43.2
54	15.1	17.6	36.5#

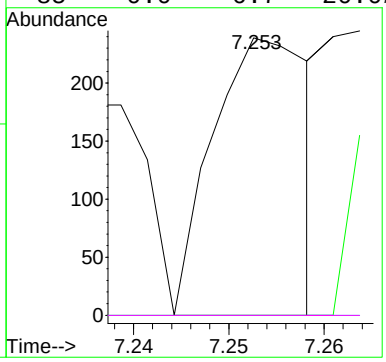


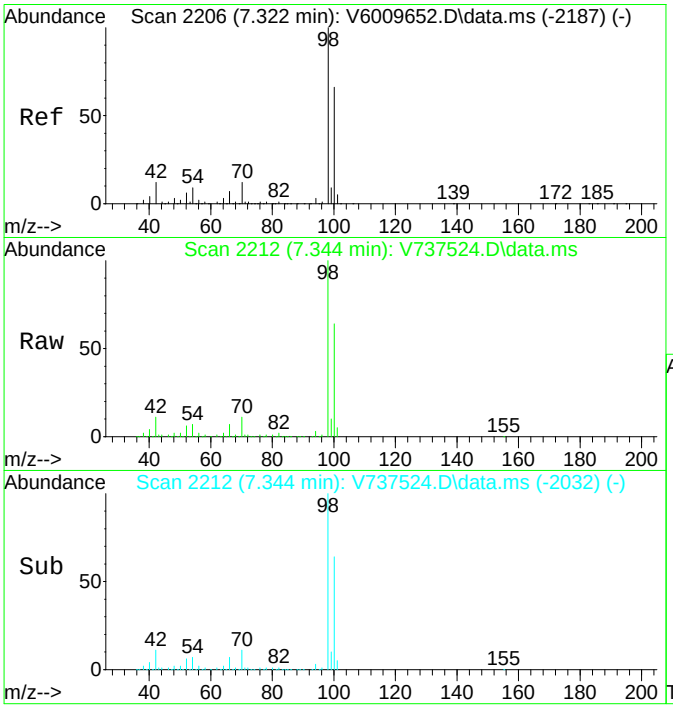


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.253 min Scan# 2179
Delta R.T. 0.000 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 43 Resp: 168

Ion	Ratio	Lower	Upper
43	100		
58	50.0	23.8	49.4#
100	0.0	5.8	17.3#
85	0.0	6.7	20.0#

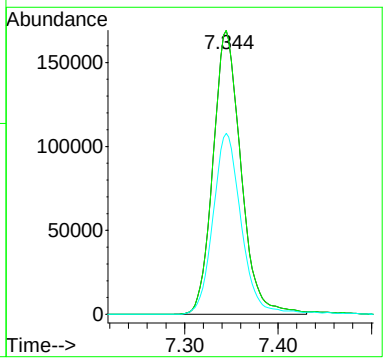


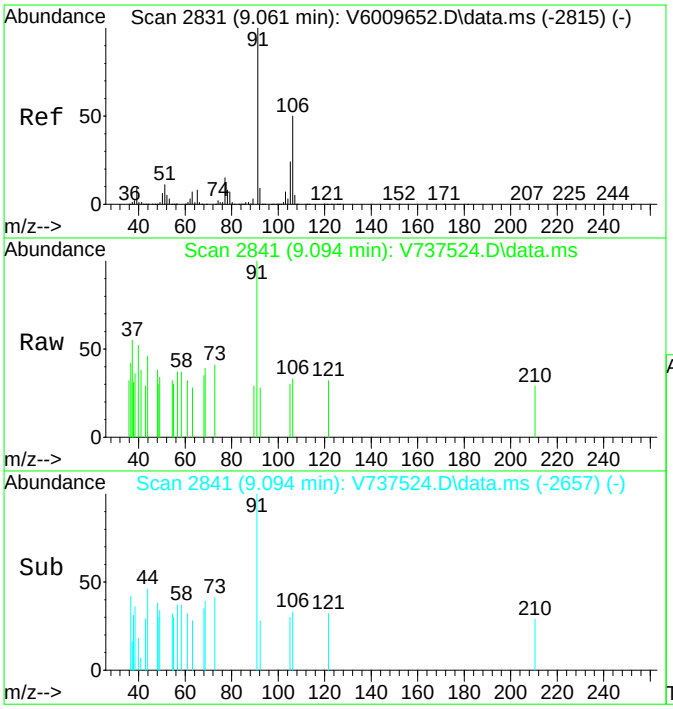


#53
Toluene-d8 (SURR)
Concen: 9.95 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 98 Resp: 351324

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	63.7	43.4	90.2

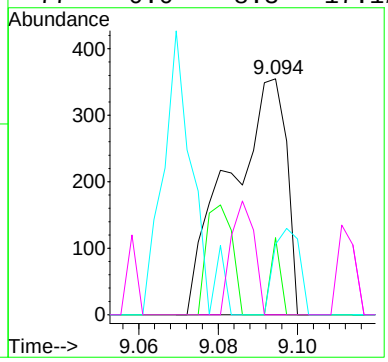


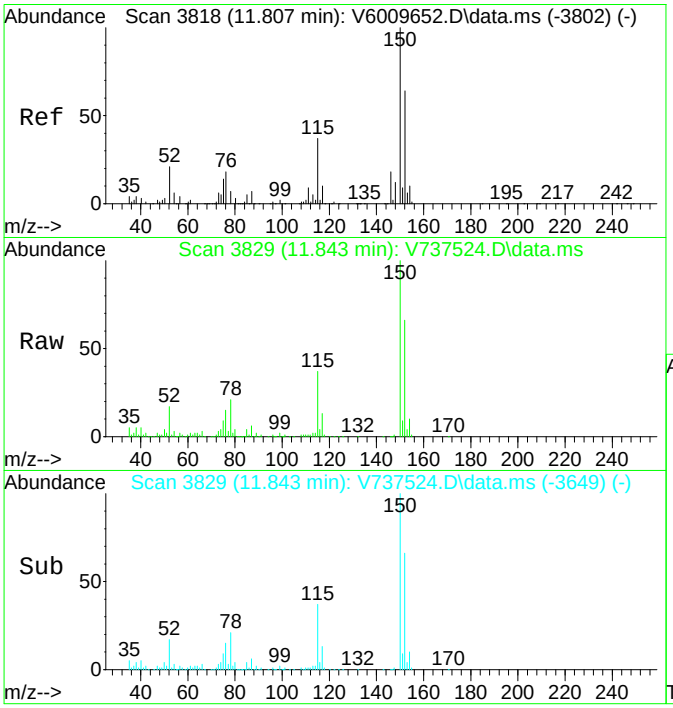


#66
p- & m-Xylenes
Concen: 0.46 ppb
RT: 9.094 min Scan# 2841
Delta R.T. 0.011 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 91 Resp: 353

Ion	Ratio	Lower	Upper
91	100		
106	5.4	31.3	65.1#
105	16.4	14.2	29.4
77	0.0	8.3	17.1#

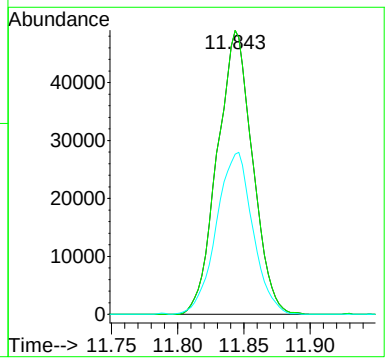


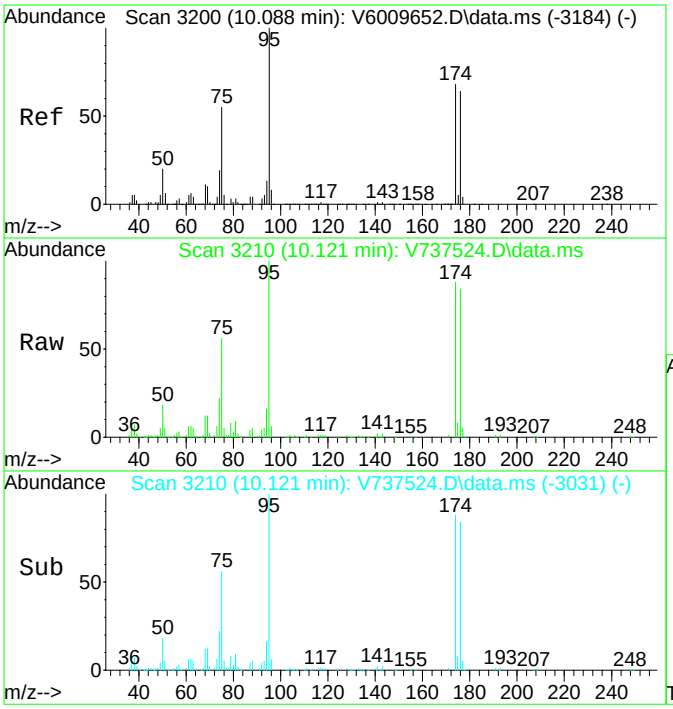


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion:152 Resp: 90777

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	58.8	33.7	101.0

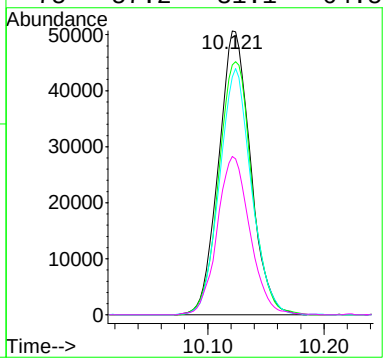


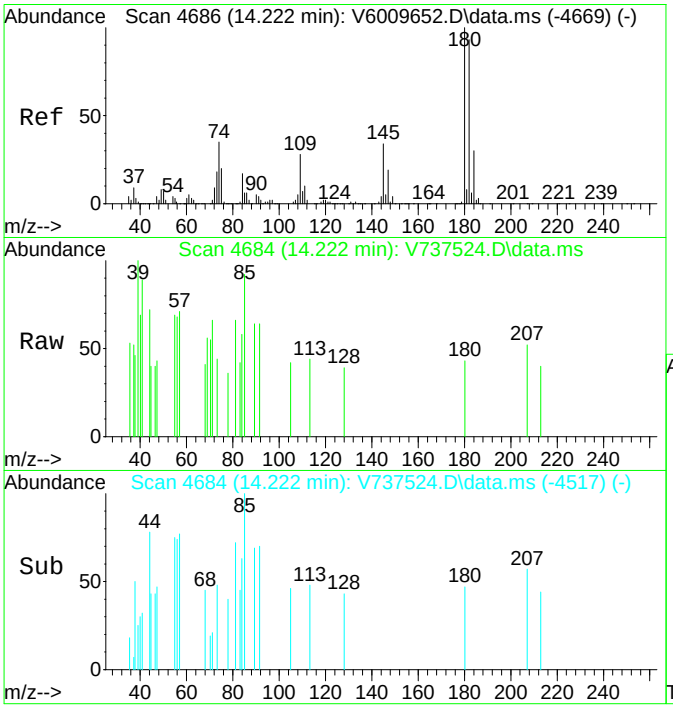


#73
p-Bromofluorobenzene (SURR)
Concen: 10.60 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion: 95 Resp: 96762

Ion	Ratio	Lower	Upper
95	100		
174	92.3	49.1	102.1
176	86.7	47.7	99.1
75	57.2	31.1	64.5

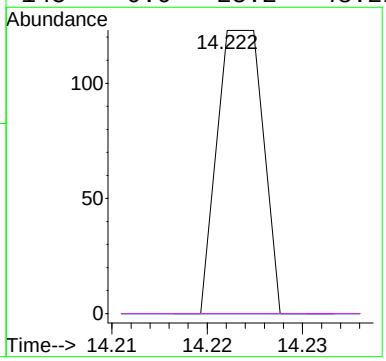




#99
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 14.222 min Scan# 4684
Delta R.T. -0.036 min
Lab File: V737524.D
Acq: 22 Dec 2019 11:59 pm

Tgt Ion:180 Resp: 41

Ion	Ratio	Lower	Upper
180	100		
182	0.0	62.0	128.8#
74	0.0	18.9	39.1#
145	0.0	23.2	48.2#



FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41433.00 TASK 0600 Katonah Municipal Wel

Calibration: YJ90021

Instrument: MSVOA7

Calibration Date: 10/21/19 11:52

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	0.5	0.3832645	2	0.3822314	4	0.386736	10	0.4131162	20	0.443186	40	0.5240302
1,1,1-Trichloroethane	0.5	2.37494	2	2.414887	4	2.467016	10	2.537019	20	2.573982	40	2.925182
1,1,2,2-Tetrachloroethane	0.5	1.009949	2	0.867805	4	0.8725827	10	0.8134048	20	0.792644	40	0.8350281
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.5	1.762631	2	1.403259	4	1.423774	10	1.354697	20	1.344564	40	1.399149
1,1,2-Trichloroethane	0.5	0.2350485	2	0.2369755	4	0.2426658	10	0.2361578	20	0.2325639	40	0.2436481
1,1-Dichloroethane	0.5	2.703007	2	2.622474	4	2.559152	10	2.657287	20	2.71748	40	3.040216
1,1-Dichloroethylene	0.5	2.076925	2	1.974635	4	1.971713	10	2.006031	20	1.932551	40	2.125321
1,1-Dichloropropylene	0.5	2.206315	2	2.000942	4	2.118871	10	2.163299	20	2.277314	40	2.545284
1,2,3-Trichlorobenzene	0.5	0.4945016	2	0.4763517	4	0.5114109	10	0.4528765	20	0.4431979	40	0.4663536
1,2,3-Trichloropropane	0.5	0.2165391	2	0.2655275	4	0.2436837	10	0.2446697	20	0.2409201	40	0.2660161
1,2,4,5-Tetramethylbenzene	0.5	3.184398	2	2.821957	4	2.923815	10	2.989406	20	3.020587	40	3.18981
1,2,4-Trichlorobenzene	0.5	0.8587967	2	0.7602941	4	0.7845316	10	0.7390037	20	0.7206403	40	0.7494733
1,2,4-Trimethylbenzene	0.5	3.860339	2	3.519356	4	3.68531	10	3.733815	20	3.94506	40	4.355819
1,2-Dibromo-3-chloropropane	0.5		2	0.1077817	4	0.108488	10	9.136866E-02	20	8.558391E-02	40	0.0842624
1,2-Dibromoethane	0.5	0.2346673	2	0.2597102	4	0.235388	10	0.24422	20	0.2399839	40	0.2436144
1,2-Dichlorobenzene	0.5	1.907242	2	1.917119	4	1.886015	10	1.904882	20	1.912351	40	1.998786
1,2-Dichloroethane	0.5	1.783918	2	1.440109	4	1.294874	10	1.472056	20	1.461858	40	1.711427
1,2-Dichloropropane	0.5	0.3658217	2	0.3261163	4	0.3386358	10	0.3226737	20	0.3172162	40	0.3329201
1,3,5-Trimethylbenzene	0.5	3.590302	2	3.464991	4	3.649505	10	3.666671	20	3.810464	40	4.023176
1,3-Dichlorobenzene	0.5	2.264461	2	2.302615	4	2.181911	10	2.274094	20	2.39991	40	2.74047
1,3-Dichloropropane	0.5	0.4215814	2	0.4353422	4	0.4066808	10	0.4121281	20	0.4023453	40	0.4173572
1,4-Dichlorobenzene	0.5	2.266725	2	2.207222	4	2.20485	10	2.213492	20	2.315641	40	2.543827
1,4-Dioxane	10		40	9.758648E-04	80	8.400545E-04	200	6.070566E-04	400	6.482648E-04	800	9.152672E-04
2,2-Dichloropropane	0.5	2.231776	2	2.221119	4	2.188371	10	2.130449	20	2.090296	40	2.220958
2-Butanone	0.5		2	0.1594775	4	0.1544217	10	0.1057051	20	0.1048058	40	0.1285182
2-Chlorotoluene	0.5	3.511329	2	3.350981	4	3.475515	10	3.587614	20	3.756472	40	4.294922
2-Hexanone	0.5		2		4	0.1499546	10	0.1478441	20	0.1360448	40	0.1431912
4-Chlorotoluene	0.5	2.944365	2	3.076178	4	3.017714	10	3.033464	20	3.097291	40	3.250914
4-Methyl-2-pentanone	0.5		2	0.2140752	4	0.222364	10	0.2096772	20	0.2040031	40	0.2096697
Acetone	0.5		2		4	0.2308366	10	0.1970214	20	0.186548	40	0.1794028
Acrolein	0.5		2	0.1390055	4	0.133925	10	0.1134037	20	0.1049321	40	0.1155873

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41433.00 TASK 0600 Katonah Municipal Wel

Calibration: YJ90021

Instrument: MSVOA7

Calibration Date: 10/21/19 11:52

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	0.5		2	0.2050279	4	0.2396422	10	0.1954313	20	0.1916462	40	0.2089936
Allyl chloride	0.5	2.250141	2	1.922227	4	1.921914	10	2.002676	20	1.917653	40	2.13653
Benzene	0.5	6.510007	2	6.367228	4	6.271442	10	6.474383	20	6.39985	40	7.150106
Bromobenzene	0.5	1.645697	2	1.500413	4	1.452842	10	1.390448	20	1.408374	40	1.450808
Bromochloromethane	0.5	1.104827	2	1.052982	4	1.026676	10	0.9505313	20	0.9595304	40	1.004941
Bromodichloromethane	0.5	0.4415024	2	0.4535583	4	0.4273857	10	0.4533879	20	0.4545554	40	0.4757348
Bromoform	0.5	0.1292481	2	0.1562567	4	0.1759451	10	0.1658098	20	0.1682371	40	0.1896008
Bromomethane	0.5	2.840745	2	3.022908	4	2.382393	10	2.245288	20	2.351657	40	2.880179
Carbon disulfide	0.5	5.014087	2	4.920159	4	4.770407	10	4.682982	20	4.709106	40	5.049681
Carbon tetrachloride	0.5	2.315253	2	2.3981	4	2.44249	10	2.523076	20	2.571059	40	2.950978
Chlorobenzene	0.5	1.042182	2	1.079933	4	1.064952	10	1.056318	20	1.07722	40	1.15944
Chloroethane	0.5	2.720538	2	2.488484	4	2.344733	10	2.113307	20	2.197205	40	2.411004
Chloroform	0.5	2.959284	2	2.771511	4	2.647805	10	2.701404	20	2.664793	40	2.916942
Chloromethane	0.5	2.284367	2	2.187238	4	2.085091	10	1.829041	20	1.748908	40	1.867265
cis-1,2-Dichloroethylene	0.5	2.22635	2	2.093476	4	2.044496	10	2.142511	20	2.127391	40	2.305475
cis-1,3-Dichloropropylene	0.5	0.5032669	2	0.5610572	4	0.5367712	10	0.5333	20	0.5309619	40	0.5545163
Cyclohexane	0.5	2.503913	2	2.082932	4	2.067928	10	2.087166	20	2.064038	40	2.19778
Dibromochloromethane	0.5	0.3304596	2	0.3355082	4	0.3494028	10	0.3497813	20	0.3452361	40	0.362367
Dibromomethane	0.5	0.2197027	2	0.211118	4	0.2004731	10	0.1908495	20	0.1878977	40	0.2010005
Dichlorodifluoromethane	0.5	1.69251	2	1.606445	4	1.601628	10	1.568899	20	1.511821	40	1.467699
Diisopropyl ether (DIPE)	0.5	4.393848	2	3.939648	4	4.010885	10	4.149414	20	4.088185	40	4.69247
Ethyl Benzene	0.5	1.65592	2	1.681397	4	1.707343	10	1.758118	20	1.87715	40	2.132197
Ethyl tert-butyl ether (ETBE)	0.5	3.877121	2	3.853563	4	3.780397	10	3.764001	20	3.557812	40	4.08344
Hexachlorobutadiene	0.5	0.3524067	2	0.2867182	4	0.312435	10	0.3000472	20	0.2898995	40	0.2667891
Iodomethane	0.5		2	0.3509939	4	0.9154362	10	1.490188	20	1.728786	40	1.875
Isopropylbenzene	0.5	4.885857	2	4.657021	4	4.763497	10	4.803173	20	4.860216	40	5.07969
Methyl acetate	0.5	0.8139074	2	0.6216349	4	0.6468399	10	0.5340133	20	0.5558453	40	0.6134922
Methyl Methacrylate	0.5	0.1855797	2	0.1678487	4	0.1816913	10	0.1825436	20	0.1722671	40	0.178467
Methyl tert-butyl ether (MTBE)	0.5	4.022372	2	3.697259	4	3.695375	10	3.643054	20	3.656338	40	4.076189
Methylcyclohexane	0.5	0.5961044	2	0.5318641	4	0.5245879	10	0.5359772	20	0.5291698	40	0.5201796
Methylene chloride	0.5	~~2.597408~~	2	1.716892	4	1.651477	10	1.518791	20	1.538439	40	1.636025

FORM VI

INITIAL CALIBRATION DATA

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.

SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie)

Project: 41433.00 TASK 0600 Katonah Municipal Wel

Calibration: YJ90021

Instrument: MSVOA7

Calibration Date: 10/21/19 11:52

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Naphthalene	0.5	1.392077	2	1.432643	4	1.446572	10	1.363128	20	1.306372	40	1.36369
n-Butylbenzene	0.5	3.290261	2	2.813833	4	3.214903	10	3.167632	20	3.250145	40	3.344294
n-Propylbenzene	0.5	5.363658	2	5.546356	4	5.495133	10	5.600784	20	5.711629	40	6.052598
o-Xylene	0.5	1.253116	2	1.259634	4	1.265575	10	1.319622	20	1.387313	40	1.56477
p- & m- Xylenes	1	1.238628	4	1.267784	8	1.306691	20	1.358442	40	1.512045	80	1.81039
p-Diethylbenzene	0.5	1.744484	2	1.661815	4	1.779768	10	1.802278	20	1.853379	40	1.905567
p-Ethyltoluene	0.5	4.338424	2	4.532111	4	4.421365	10	4.635396	20	4.896908	40	5.529523
p-Isopropyltoluene	0.5	3.817032	2	4.004509	4	3.928896	10	4.14492	20	4.389359	40	4.800228
sec-Butylbenzene	0.5	4.340122	2	4.291566	4	4.2541	10	4.265338	20	4.325507	40	4.328322
Styrene	0.5	1.022261	2	1.030324	4	1.07816	10	1.137122	20	1.195993	40	1.382557
SURR: 1,2-Dichloroethane-d4	10	1.068744	10	1.060618	10	1.084832	10	1.149628	10	1.138255	10	1.315331
SURR: p-Bromofluorobenzene	10	0.9958815	10	0.9670426	10	0.9687955	10	0.9651578	10	0.9433787	10	0.872008
SURR: Toluene-d8	10	1.346539	10	1.317443	10	1.337196	10	1.318878	10	1.318199	10	1.267097
tert-Amyl alcohol (TAA)	5	0.1107749	20	9.114173E-02	40	9.836424E-02	100	9.060076E-02	200	8.782123E-02	400	0.119254
tert-Amyl methyl ether (TAME)	0.5	4.612142	2	4.541732	4	4.653496	10	4.806159	20	4.697448	40	5.578249
tert-Butyl alcohol (TBA)	2.5		10	9.976048E-02	20	8.017591E-02	50	7.868058E-02	80	0.0728317	120	9.252785E-02
tert-Butylbenzene	0.5	3.451887	2	3.362897	4	3.303766	10	3.356453	20	3.327298	40	3.47164
Tetrachloroethylene	0.5	0.3784034	2	0.4232769	4	0.4095597	10	0.406199	20	0.434261	40	0.4722511
Tetrahydrofuran	0.5		2	0.1684853	4	0.1324823	10	0.1181935	20	0.1110409	40	0.1249956
Toluene	0.5	1.53973	2	1.542931	4	1.583448	10	1.588912	20	1.624611	40	1.726356
trans-1,2-Dichloroethylene	0.5	2.046455	2	1.821504	4	1.763263	10	1.788764	20	1.809879	40	2.024039
trans-1,3-Dichloropropylene	0.5	0.4753394	2	0.4197047	4	0.4599975	10	0.4426746	20	0.4453517	40	0.4854451
trans-1,4-dichloro-2-butene	0.5	0.7093423	2	0.8020663	4	0.7826471	10	0.8030525	20	0.79254	40	0.9098291
Trichloroethylene	0.5	0.400326	2	0.3692436	4	0.3862639	10	0.3728098	20	0.3626277	40	0.3898992
Trichlorofluoromethane	0.5	8.583592	2	9.197597	4	7.989881	10	7.261538	20	7.628564	40	8.4987
Vinyl acetate	0.5	1.777657	2	1.798575	4	1.852414	10	1.857004	20	1.623051	40	1.910744
Vinyl Chloride	0.5	3.09577	2	2.75022	4	2.782228	10	2.547859	20	2.503384	40	2.586524

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Wel
Calibration: YJ90021
Instrument: MSVOA7
Calibration Date: 10/21/19 11:52

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1,1,2-Tetrachloroethane	80	~~0.7331192~~										
1,1,1-Trichloroethane	80	3.465969										
1,1,2,2-Tetrachloroethane	80	0.8247979										
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	80	1.492453										
1,1,2-Trichloroethane	80	0.2624898										
1,1-Dichloroethane	80	3.43148										
1,1-Dichloroethylene	80	2.27039										
1,1-Dichloropropylene	80	3.003922										
1,2,3-Trichlorobenzene	80	0.4461755										
1,2,3-Trichloropropane	80	0.3020577										
1,2,4,5-Tetramethylbenzene	80	3.565168										
1,2,4-Trichlorobenzene	80	0.7708726										
1,2,4-Trimethylbenzene	80	5.33012										
1,2-Dibromo-3-chloropropane	80	0.0795187										
1,2-Dibromoethane	80	0.2547										
1,2-Dichlorobenzene	80	2.141478										
1,2-Dichloroethane	80	2.046546										
1,2-Dichloropropane	80	0.3511368										
1,3,5-Trimethylbenzene	80	4.58057										
1,3-Dichlorobenzene	80	3.378841										
1,3-Dichloropropane	80	0.4408494										
1,4-Dichlorobenzene	80	3.011702										
1,4-Dioxane	1600	7.219476E-04										
2,2-Dichloropropane	80	2.387987										
2-Butanone	80	0.1448871										
2-Chlorotoluene	80	5.646654										
2-Hexanone	80	0.1490737										
4-Chlorotoluene	80	3.492772										
4-Methyl-2-pentanone	80	0.2105919										
Acetone	80	0.1750426										
Acrolein	80	0.1274454										

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Wel

Calibration: YJ90021
Instrument: MSVOA7

Calibration Date: 10/21/19 11:52

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acrylonitrile	80	0.2100246										
Allyl chloride	80	2.212987										
Benzene	80	8.000843										
Bromobenzene	80	1.503813										
Bromochloromethane	80	1.048729										
Bromodichloromethane	80	0.5069124										
Bromoform	80	0.2071157										
Bromomethane	80	2.997532										
Carbon disulfide	80	5.289451										
Carbon tetrachloride	80	3.673076										
Chlorobenzene	80	1.360559										
Chloroethane	80	2.292095										
Chloroform	80	3.110438										
Chloromethane	80	1.875623										
cis-1,2-Dichloroethylene	80	2.548744										
cis-1,3-Dichloropropylene	80	0.5964518										
Cyclohexane	80	2.530962										
Dibromochloromethane	80	0.4020409										
Dibromomethane	80	0.2148185										
Dichlorodifluoromethane	80	1.396379										
Diisopropyl ether (DIPE)	80	5.155515										
Ethyl Benzene	80	~~2.839605~~										
Ethyl tert-butyl ether (ETBE)	80	4.421206										
Hexachlorobutadiene	80	0.2830607										
Iodomethane	80	1.923906										
Isopropylbenzene	80	5.641726										
Methyl acetate	80	0.6094647										
Methyl Methacrylate	80	0.1882563										
Methyl tert-butyl ether (MTBE)	80	4.436638										
Methylcyclohexane	80	0.5797499										
Methylene chloride	80	1.663855										

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Wel

Calibration: YJ90021 Instrument: MSVOA7

Calibration Date: 10/21/19 11:52

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Naphthalene	80	1.296143										
n-Butylbenzene	80	3.578958										
n-Propylbenzene	80	6.936466										
o-Xylene	80	~~2.023309~~										
p- & m- Xylenes	160	~~2.671962~~										
p-Diethylbenzene	80	2.201281										
p-Ethyltoluene	80	7.102484										
p-Isopropyltoluene	80	6.036309										
sec-Butylbenzene	80	4.698366										
Styrene	80	~~1.770518~~										
SURR: 1,2-Dichloroethane-d4	10	1.462651										
SURR: p-Bromofluorobenzene	10	0.7755794										
SURR: Toluene-d8	10	1.236179										
tert-Amyl alcohol (TAA)	800	0.1284598										
tert-Amyl methyl ether (TAME)	80	6.515783										
tert-Butyl alcohol (TBA)	240	8.317111E-02										
tert-Butylbenzene	80	3.826776										
Tetrachloroethylene	80	0.561472										
Tetrahydrofuran	80	0.1304077										
Toluene	80	1.998479										
trans-1,2-Dichloroethylene	80	2.243983										
trans-1,3-Dichloropropylene	80	0.5402903										
trans-1,4-dichloro-2-butene	80	1.015802										
Trichloroethylene	80	0.4417536										
Trichlorofluoromethane	80	7.7635										
Vinyl acetate	80	2.031772										
Vinyl Chloride	80	2.50768										

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Calibration: YJ90021 Instrument: MSVOA7

Calibration Date: 10/21/19 11:52

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.4220941	13.08975	8.9745	2.123335E-02			20	
1,1,1-Trichloroethane	2.679856	14.59803	5.202857	5.680652E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.8594588	8.400035	10.32743	1.719702E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.454361	9.927048	3.001	5.738868E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.2413642	4.201052	7.882	2.106358E-02			SPCC (0.1)	
1,1-Dichloroethane	2.818728	11.03142	4.208143	3.053304E-02			SPCC (0.2)	
1,1-Dichloroethylene	2.051081	5.716921	3.033286	5.444306E-02			SPCC (0.1)	
1,1-Dichloropropylene	2.33085	14.64604	5.349857	2.238152E-02			20	
1,2,3-Trichlorobenzene	0.470124	5.456266	14.25857	1.090999E-02			20	
1,2,3-Trichloropropane	0.254202	10.59766	10.37286	0.0131972			20	
1,2,4,5-Tetramethylbenzene	3.099306	7.886354	12.64343	2.320865E-02			20	
1,2,4-Trichlorobenzene	0.7690875	5.815743	13.68214	1.984124E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	4.061403	15.2208	10.97471	1.500947E-02	0.99527		0.99	
1,2-Dibromo-3-chloropropane	0.0928339	13.40196	12.7885	2.101076E-02			SPCC (0.05)	
1,2-Dibromoethane	0.244612	3.864911	8.413286	3.440458E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.952553	4.649723	11.866	1.086775E-02			SPCC (0.4)	
1,2-Dichloroethane	1.601541	16.11684	5.622857	2.316673E-02	0.99565		SPCC (0.1)	
1,2-Dichloropropane	0.3363601	5.094894	6.413429	3.422709E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	3.826526	9.841511	10.55029	0.0215695			20	
1,3-Dichlorobenzene	2.506043	16.98131	11.33143	1.787807E-02		0.9999962	SPCC (0.6)	
1,3-Dichloropropane	0.4194692	3.411443	8.050143	2.043784E-02			20	
1,4-Dichlorobenzene	2.39478	12.40587	11.43486	1.909193E-02			SPCC (0.5)	
1,4-Dioxane	7.847426E-04	18.96664	6.554167	7.025439E-02			20	
2,2-Dichloropropane	2.210137	4.273383	4.733286	7.340394E-02			20	
2-Butanone	0.1329692	17.99046	4.785667	9.967737E-02	0.99630		SPCC (0.1)	
2-Chlorotoluene	3.946212	20.54184	10.48714	1.809009E-02		0.9999531	0.99	
2-Hexanone	0.1452217	3.96253	8.0948	2.561469E-02			SPCC (0.1)	
4-Chlorotoluene	3.130385	5.927447	10.61143	2.303966E-02			20	
4-Methyl-2-pentanone	0.2117302	2.896408	7.2495	3.197843E-02			SPCC (0.1)	
Acetone	0.1937703	11.52187	3.1414	5.051472E-02	0.99999		SPCC (0.1)	
Acrolein	0.1223832	10.75663	2.9855	0.2138542			20	
Acrylonitrile	0.208461	8.138888	3.834	8.177579E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. SDG: 19L0677

Client: Chazen Environmental Services (Poughkeepsie) Project: 41433.00 TASK 0600 Katonah Municipal Well

Calibration: YJ90021 Instrument: MSVOA7

Calibration Date: 10/21/19 11:52

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Allyl chloride	2.052018	7.077898	3.408	4.998204E-02			20	
Benzene	6.739123	9.297548	5.562286	2.612759E-02			SPCC (0.5)	
Bromobenzene	1.478914	5.735575	10.29643	1.226538E-02			20	
Bromochloromethane	1.021174	5.341711	5.005286	2.632274E-02			20	
Bromodichloromethane	0.4590053	5.598511	6.699	4.354623E-02			SPCC (0.2)	
Bromoform	0.1703162	14.51458	9.819714	1.101267E-02			SPCC (0.1)	
Bromomethane	2.674386	12.48996	2.156143	8.905587E-02			SPCC (0.1)	
Carbon disulfide	4.919411	4.431816	3.257429	2.890624E-02			SPCC (0.1)	
Carbon tetrachloride	2.69629	17.67807	5.343143	2.528249E-02		0.9999818	SPCC (0.1)	
Chlorobenzene	1.120086	10.04806	8.886857	1.881751E-02			SPCC (0.5)	
Chloroethane	2.366767	8.467588	2.259857	6.530636E-02			SPCC (0.1)	
Chloroform	2.824597	6.185639	5.071143	2.923623E-02			SPCC (0.2)	
Chloromethane	1.982505	10.22151	1.697857	8.619844E-02			SPCC (0.1)	
cis-1,2-Dichloroethylene	2.212635	7.749984	4.766429	7.478865E-02			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.5451893	5.367926	7.115	1.941324E-02			SPCC (0.2)	
Cyclohexane	2.219246	9.410246	5.213857	3.045731E-02			SPCC (0.1)	
Dibromochloromethane	0.3535423	6.721634	8.293429	1.727182E-02			SPCC (0.1)	
Dibromomethane	0.2036943	5.902355	6.555286	3.626323E-02			20	
Dichlorodifluoromethane	1.54934	6.364723	1.493	2.449679E-02			SPCC (0.1)	
Diisopropyl ether (DIPE)	4.347138	10.11539	4.192429	4.629816E-02			20	
Ethyl Benzene	1.802021	9.971742	8.966	2.230841E-02			SPCC (0.1)	
Ethyl tert-butyl ether (ETBE)	3.905363	7.071997	4.534857	5.107318E-02			20	
Hexachlorobutadiene	0.2987652	9.226085	13.82486	0.013896			20	
Iodomethane	1.380718	45.22221	3.213833	0.1140947	0.99995		0.99	
Isopropylbenzene	4.955883	6.638411	9.904857	3.921483E-03			SPCC (0.1)	
Methyl acetate	0.6278854	14.47335	3.439571	0.1012384			SPCC (0.1)	
Methyl Methacrylate	0.179522	4.047814	6.482429	0.0329607			20	
Methyl tert-butyl ether (MTBE)	3.889604	7.724343	3.755857	4.136738E-02			SPCC (0.1)	
Methylcyclohexane	0.5453761	5.478076	6.293714	0.0364352			SPCC (0.1)	
Methylene chloride	1.620913	4.734696	3.5545	3.134788E-02			SPCC (0.1)	
Naphthalene	1.371518	4.193656	13.98086	1.204956E-02			20	
n-Butylbenzene	3.237147	7.087409	11.77943	1.389165E-02			20	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA 8260C

Laboratory: York Analytical Laboratories, Inc.
SDG: 19L0677
Client: Chazen Environmental Services (Poughkeepsie)
Project: 41433.00 TASK 0600 Katonah Municipal Well
Calibration: YJ90021
Instrument: MSVOA7
Calibration Date: 10/21/19 11:52

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
n-Propylbenzene	5.815232	9.284117	10.35943	1.814467E-02			20	
o-Xylene	1.341672	8.987759	9.5225	5.691487E-04			SPCC (0.3)	
p- & m- Xylenes	1.415663	15.26367	9.0855	1.626856E-02	0.99613		SPCC (0.1)	
p-Diethylbenzene	1.849796	9.370087	11.75	9.892271E-03			20	
p-Ethyltoluene	5.065173	19.42101	10.48329	2.356052E-02		0.99997	0.99	
p-Isopropyltoluene	4.445893	17.43805	11.31314	2.379476E-02		0.9999369	0.99	
sec-Butylbenzene	4.357617	3.529113	11.15429	0.0179794			20	
Styrene	1.14107	11.86737	9.552	2.148475E-02			SPCC (0.3)	
SURR: 1,2-Dichloroethane-d4	1.182866	12.75135	5.552429	2.830366E-02			20	
SURR: p-Bromofluorobenzene	0.9268348	8.330849	10.12443	1.709667E-02			20	
SURR: Toluene-d8	1.305933	3.03903	7.345429	2.301188E-02			20	
tert-Amyl alcohol (TAA)	0.1037738	15.31186	5.589572	0.1361689			20	
tert-Amyl methyl ether (TAME)	5.057858	14.47976	5.611428	0.0484168			20	
tert-Butyl alcohol (TBA)	0.0845246	11.68569	3.6815	9.915069E-02			20	
tert-Butylbenzene	3.44296	5.234294	10.91114	1.282991E-02			20	
Tetrachloroethylene	0.4407747	13.72763	7.957143	3.255014E-02			SPCC (0.2)	
Tetrahydrofuran	0.1309342	15.29811	5.027833	6.615223E-02	0.99902		0.99	
Toluene	1.657781	9.828066	7.413571	7.988174E-03			SPCC (0.4)	
trans-1,2-Dichloroethylene	1.92827	9.347245	3.786	4.818319E-02			SPCC (0.1)	
trans-1,3-Dichloropropylene	0.4669719	8.352356	7.683	4.027827E-02			SPCC (0.1)	
trans-1,4-dichloro-2-butene	0.8307542	12.09743	10.37486	1.093633E-02			20	
Trichloroethylene	0.3889891	6.855982	6.168	3.081433E-02			SPCC (0.2)	
Trichlorofluoromethane	8.13191	8.158677	2.497143	9.007001E-02			SPCC (0.1)	
Vinyl acetate	1.835888	6.845834	4.236429	4.546662E-02			20	
Vinyl Chloride	2.681952	7.986946	1.799857	8.056951E-02			SPCC (0.1)	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736081.D
Acq On : 18 Oct 2019 3:18 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL1
Misc : QBV7101819A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 18 15:40:28 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.825	70	47917	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.858	117	209829	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	70657	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.553	65	51211	9.33	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.30%				
53) Toluene-d8 (SURR)	7.344	98	282543	11.92	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.20%				
73) p-Bromofluorobenzene (...	10.124	95	70366	10.34	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	4055	0.53	ppb		99
3) Chloromethane	1.699	50	5473m	0.43	ppb		
4) Vinyl Chloride	1.799	62	7417	0.56	ppb		97
5) Bromomethane	2.153	94	6806	3.12	ppb		93
6) Chloroethane	2.261	64	6518m	0.58	ppb		
7) Trichlorofluoromethane	2.501	101	20565	0.50	ppb		96
9) Freon-113	3.001	101	4223m	0.51	ppb		
10) 1,1-Dichloroethylene	3.035	61	4976	0.42	ppb	#	68
14) Ally Chloride	3.405	41	5391m	0.32	ppb		
15) Methyl Acetate	3.441	43	1950m	0.39	ppb		
16) Carbon disulfide	3.257	76	12013	0.45	ppb		99
18) Methylene Chloride	3.558	49	6223	0.49	ppb	#	75
20) trans-1,2-Dichloroethy...	3.786	61	4903	0.40	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.755	73	9637m	0.42	ppb		
22) 1,1-Dichloroethane	4.206	63	6476	0.38	ppb	#	88
23) Vinyl Acetate	4.234	43	4259m	0.27	ppb		
24) Diisopropyl ether (DIPE)	4.195	45	10527m	0.30	ppb		
25) Ethyl-tert-Butyl ether...	4.534	59	9289	0.34	ppb	#	95
26) cis-1,2-Dichloroethylene	4.774	61	5334m	0.37	ppb		
28) 2,2-Dichloropropane	4.735	77	5347	0.40	ppb	#	91
30) Bromochloromethane	5.005	49	2647	0.33	ppb	#	77
31) Chloroform	5.074	83	7090	0.42	ppb	#	97
32) 1,1,1-Trichloroethane	5.208	97	5690m	0.36	ppb		
33) Cyclohexane	5.213	56	5999	0.40	ppb		95
34) 1,1-Dichloropropylene	5.350	75	5286	0.42	ppb		90
36) Carbon Tetrachloride	5.341	117	5547	0.36	ppb		97
37) tert-Amyl alcohol (TAA)	5.597	59	2654m	3.69	ppb		
38) 1,2-Dichloroethane	5.625	62	4274	0.45	ppb		95
39) Benzene	5.564	78	15597	0.39	ppb	#	1
40) tert-Amyl methyl ether...	5.608	73	11050m	0.36	ppb		
42) Trichloroethylene	6.168	95	4200	0.55	ppb		90
43) Methyl Cyclohexane	6.290	83	6254m	0.57	ppb		
44) Methyl Methacrylate	6.485	69	1947m	0.51	ppb		
45) Dibromomethane	6.551	93	2305m	0.55	ppb		
46) Bromodichloromethane	6.705	83	4632	0.48	ppb	#	85
47) 1,2-Dichloropropane	6.410	63	3838m	0.54	ppb		
50) 2-Chloroethyl vinyl ether	6.955	63	849	0.44	ppb		96
51) cis-1,3-Dichloropropene	7.116	75	5280	0.47	ppb	#	88
52) 4-Methyl-2-Pentanone	7.258	43	3046m	Below Cal			
54) Toluene	7.414	91	16154	0.48	ppb		98
55) Ethyl Methacrylate	7.703	69	3735	0.48	ppb	#	39
56) trans-1,3-Dichloropropene	7.689	75	4987	0.51	ppb	#	88
57) 1,1,2-Trichloroethane	7.879	97	2466	0.46	ppb	#	68
58) 1,3-Dichloropropane	8.051	76	4423	0.51	ppb	#	99
59) Tetrachloroethylene	7.962	166	3970	0.39	ppb	#	100
60) 2-Hexanone	8.093	43	1729m	Below Cal			
61) Dibromochloromethane	8.290	129	3467	0.43	ppb	#	80
62) 1,2-Dibromoethane	8.418	107	2462m	0.46	ppb		

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736081.D
Acq On : 18 Oct 2019 3:18 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL1
Misc : QBV7101819A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 18 15:40:28 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

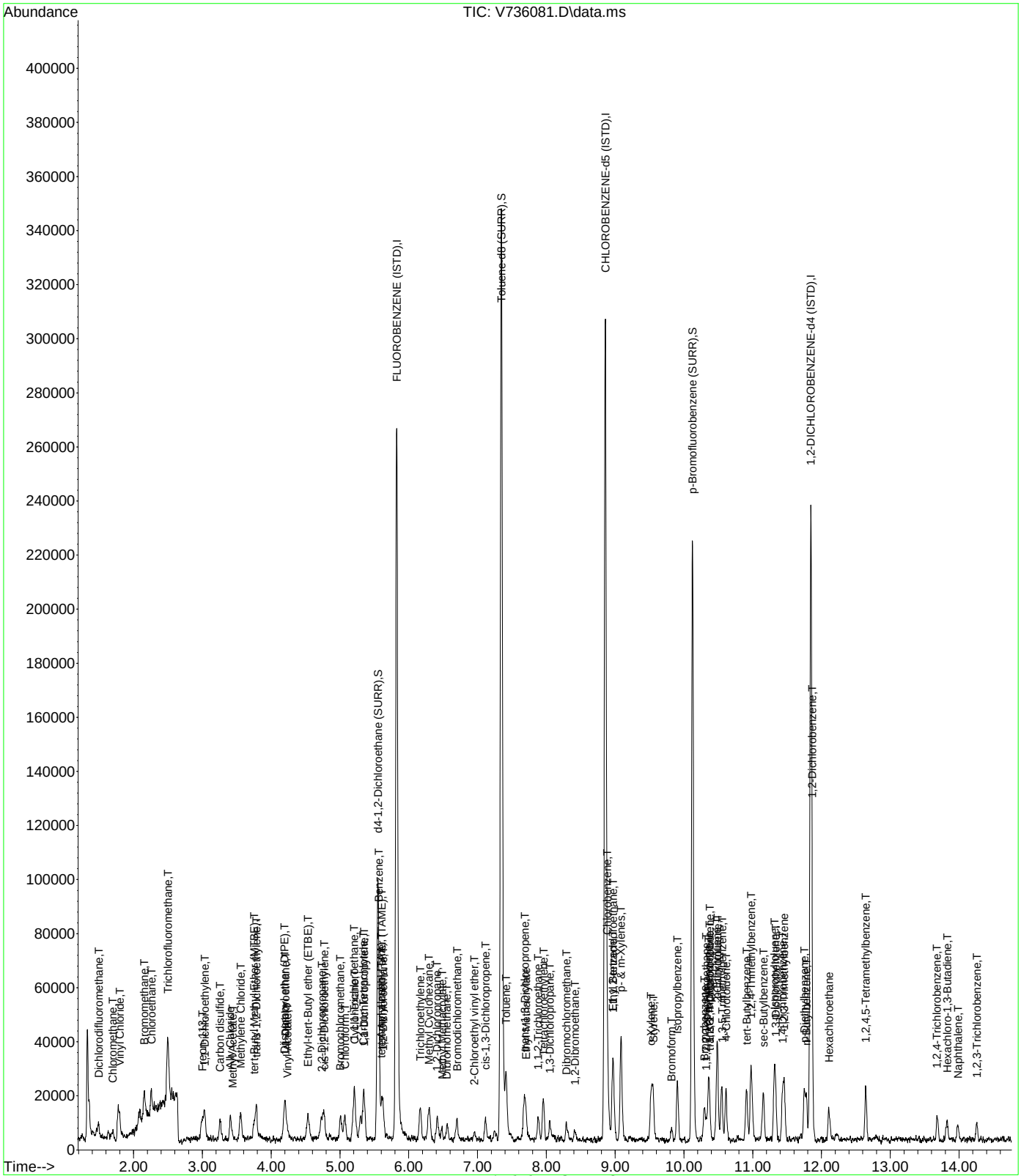
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
63) Chlorobenzene	8.886	112	10934	0.47	ppb	#	84
64) 1,1,1,2-tetrachloroethane	8.972	131	4021	0.43	ppb	#	74
65) Ethyl Benzene	8.966	91	17373	0.45	ppb		97
66) p- & m-Xylenes	9.083	91	25990	4.91	ppb		92
67) o-Xylene	9.520	91	13147	0.44	ppb		95
68) Styrene	9.554	104	10725	0.42	ppb	#	100
69) Bromoform	9.818	173	1356	0.32	ppb	#	76
71) p-Ethyltoluene	10.480	105	15327	0.50	ppb	#	87
72) Isopropylbenzene	9.904	105	17261	0.56	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.324	83	3568	0.62	ppb	#	95
75) Bromobenzene	10.299	77	5814	0.61	ppb		84
76) trans-1,4-Dichloro-2-b...	10.377	75	2506	0.43	ppb	#	40
77) 1,2,3-Trichloropropane	10.374	110	765	0.44	ppb	#	40
78) n-Propylbenzene	10.360	91	18949	0.53	ppb	#	92
79) 2-Chlorotoluene	10.491	91	12405m	0.50	ppb		
80) 4-Chlorotoluene	10.614	91	10402m	0.50	ppb		
81) 1,3,5-Trimethylbenzene	10.555	105	12684	0.52	ppb		87
82) tert-Butylbenzene	10.911	119	12195	0.58	ppb		82
83) 1,2,4-Trimethylbenzene	10.975	105	13638m	0.53	ppb		
84) sec-Butylbenzene	11.159	105	15333	0.58	ppb		95
85) 1,3-Dichlorobenzene	11.334	146	8000	0.50	ppb		97
86) p-Isopropyltoluene	11.315	119	13485	0.49	ppb		94
87) 1,4-Dichlorobenzene	11.434	146	8008	0.51	ppb		98
88) 1,2,3-Trimethylbenzene	11.457	105	11788	0.47	ppb		95
89) p-Diethylbenzene	11.752	105	6163	0.53	ppb		91
90) 1,2-Dichlorobenzene	11.863	146	6738	0.51	ppb	#	68
91) n-Butylbenzene	11.779	91	11624m	0.60	ppb		
92) Hexachloroethane	12.108	117	2521	0.51	ppb	#	63
94) 1,2,4,5-Tetramethylben...	12.645	119	11250	0.56	ppb		94
96) 1,2,4-Trichlorobenzene	13.677	180	3034m	0.58	ppb		
97) Hexachloro-1,3-Butadiene	13.827	225	1245m	0.61	ppb		
98) Naphthalene	13.983	128	4918	0.48	ppb	#	90
99) 1,2,3-Trichlorobenzene	14.261	180	1747	0.53	ppb	#	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736081.D
Acq On : 18 Oct 2019 3:18 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL1
Misc : QBV7101819A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 18 15:40:28 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736082.D
Acq On : 18 Oct 2019 3:48 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL2
Misc : QBV7101819A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 09:44:48 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.822	70	48847	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	211351	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	73853	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	51808	9.26	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.60%				
53) Toluene-d8 (SURR)	7.347	98	278443	11.66	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.60%				
73) p-Bromofluorobenzene (...	10.124	95	71419	10.04	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	15694m	2.03	ppb		
3) Chloromethane	1.699	50	21368	1.65	ppb		98
4) Vinyl Chloride	1.799	62	26868	1.99	ppb		99
5) Bromomethane	2.155	94	29532	4.86	ppb		99
6) Chloroethane	2.261	64	24311	2.13	ppb		98
7) Trichlorofluoromethane	2.495	101	89855	2.13	ppb		99
8) Ethanol	2.790	45	1666	73.08	ppb	#	52
9) Freon-113	2.998	101	13709	1.62	ppb		98
10) 1,1-Dichloroethylene	3.032	61	19291	1.61	ppb	#	74
11) Acrolein	2.973	56	1358m	1.36	ppb		
12) Acetone	3.143	43	2786	Below Cal		#	100
13) Iodomethane	3.221	142	3429m	2.95	ppb		
14) Ally Chloride	3.408	41	18779	1.10	ppb	#	77
15) Methyl Acetate	3.446	43	6073	1.18	ppb		99
16) Carbon disulfide	3.257	76	48067	1.77	ppb		100
17) tert-Butyl Alcohol (TBA)	3.686	59	4873	8.26	ppb	#	100
18) Methylene Chloride	3.555	49	16773	1.29	ppb	#	60
19) Acrylonitrile	3.839	53	2003	1.08	ppb	#	78
20) trans-1,2-Dichloroethy...	3.789	61	17795	1.43	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.758	73	36120	1.55	ppb	#	83
22) 1,1-Dichloroethane	4.209	63	25620	1.47	ppb		98
23) Vinyl Acetate	4.239	43	17571m	1.08	ppb		
24) Diisopropyl ether (DIPE)	4.189	45	38488	1.07	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.540	59	37647	1.35	ppb	#	93
26) cis-1,2-Dichloroethylene	4.768	61	20452	1.41	ppb	#	83
27) 2-Butanone	4.790	72	1558	1.65	ppb	#	100
28) 2,2-Dichloropropane	4.726	77	21699	1.57	ppb	#	100
29) Tetrahydrofuran	5.032	71	1646m	2.50	ppb		
30) Bromochloromethane	5.005	49	10287	1.25	ppb	#	74
31) Chloroform	5.071	83	27076	1.58	ppb	#	68
32) 1,1,1-Trichloroethane	5.202	97	23592	1.48	ppb	#	67
33) Cyclohexane	5.216	56	20349	1.33	ppb	#	67
34) 1,1-Dichloropropylene	5.349	75	19548	1.51	ppb		80
36) Carbon Tetrachloride	5.344	117	23428	1.49	ppb	#	92
37) tert-Amyl alcohol (TAA)	5.603	59	8904	12.13	ppb	#	78
38) 1,2-Dichloroethane	5.622	62	14069m	1.46	ppb		
39) Benzene	5.561	78	62204	1.53	ppb	#	71
40) tert-Amyl methyl ether...	5.614	73	44370	1.42	ppb	#	90
42) Trichloroethylene	6.170	95	15608	2.01	ppb		80
43) Methyl Cyclohexane	6.293	83	22482	2.04	ppb	#	72
44) Methyl Methacrylate	6.485	69	7095	1.84	ppb	#	73
45) Dibromomethane	6.557	93	8924m	2.13	ppb		
46) Bromodichloromethane	6.699	83	19172	1.98	ppb		97
47) 1,2-Dichloropropane	6.412	63	13785	1.92	ppb		97
48) 1,4-Dioxane	6.560	88	825	75.55	ppb		91
49) 2-Nitropropane	6.949	43	4949	1.76	ppb		98
50) 2-Chloroethyl vinyl ether	6.955	63	4061m	2.07	ppb		
51) cis-1,3-Dichloropropene	7.113	75	23716	2.08	ppb		85

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736082.D
Acq On : 18 Oct 2019 3:48 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL2
Misc : QBV7101819A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 09:44:48 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

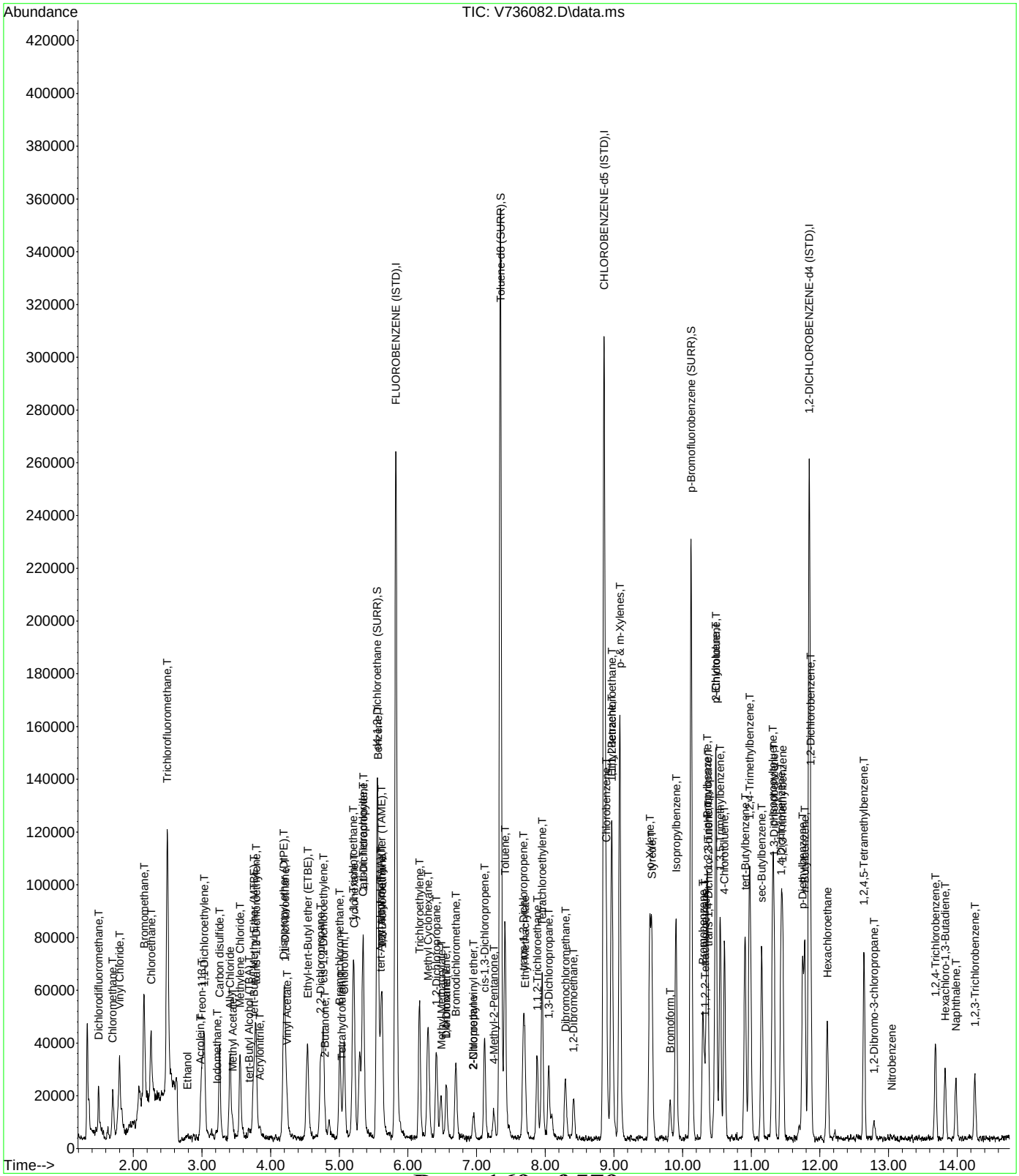
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.250	43	9049	0.76 ppb	#	87
54) Toluene	7.414	91	65220	1.94 ppb		100
55) Ethyl Methacrylate	7.703	69	15642	1.98 ppb	#	29
56) trans-1,3-Dichloropropene	7.681	75	17741	1.80 ppb	#	86
57) 1,1,2-Trichloroethane	7.884	97	10017	1.84 ppb		87
58) 1,3-Dichloropropane	8.051	76	18402	2.10 ppb	#	98
59) Tetrachloroethylene	7.956	166	17892	1.77 ppb	#	100
60) 2-Hexanone	8.098	43	7150	Below Cal	#	11
61) Dibromochloromethane	8.293	129	14182m	1.76 ppb		
62) 1,2-Dibromoethane	8.410	107	10978m	2.05 ppb		
63) Chlorobenzene	8.889	112	45649	1.94 ppb	#	91
64) 1,1,1,2-tetrachloroethane	8.972	131	16157	1.70 ppb		96
65) Ethyl Benzene	8.966	91	71073	1.82 ppb		95
66) p- & m-Xylenes	9.086	91	107179	6.86 ppb		93
67) o-Xylene	9.523	91	53245	1.77 ppb		96
68) Styrene	9.551	104	43552	1.68 ppb	#	100
69) Bromoform	9.818	173	6605	1.57 ppb	#	100
71) p-Ethyltoluene	10.483	105	66942	2.08 ppb	#	87
72) Isopropylbenzene	9.907	105	68787	2.14 ppb		95
74) 1,1,2,2-Tetrachloroethane	10.327	83	12818	2.14 ppb	#	68
75) Bromobenzene	10.296	77	22162	2.23 ppb		82
76) trans-1,4-Dichloro-2-b...	10.377	75	11847	1.93 ppb	#	90
77) 1,2,3-Trichloropropane	10.369	110	3922	2.17 ppb		65
78) n-Propylbenzene	10.358	91	81923	2.20 ppb		99
79) 2-Chlorotoluene	10.486	91	49496	1.91 ppb		96
80) 4-Chlorotoluene	10.608	91	45437	2.09 ppb		96
81) 1,3,5-Trimethylbenzene	10.547	105	51180	2.01 ppb		90
82) tert-Butylbenzene	10.911	119	49672	2.25 ppb		90
83) 1,2,4-Trimethylbenzene	10.975	105	51983	1.93 ppb		97
84) sec-Butylbenzene	11.153	105	63389	2.31 ppb		96
85) 1,3-Dichlorobenzene	11.331	146	34011	2.03 ppb		92
86) p-Isopropyltoluene	11.312	119	59149	2.06 ppb		95
87) 1,4-Dichlorobenzene	11.434	146	32602	1.98 ppb		91
88) 1,2,3-Trimethylbenzene	11.457	105	53564	2.04 ppb		97
89) p-Diethylbenzene	11.749	105	24546	2.01 ppb	#	18
90) 1,2-Dichlorobenzene	11.866	146	28317	2.05 ppb	#	99
91) n-Butylbenzene	11.779	91	41562m	2.06 ppb		
92) Hexachloroethane	12.110	117	11174	2.16 ppb	#	83
93) 1,2-Dibromo-3-chloropr...	12.789	75	1592	2.32 ppb	#	61
94) 1,2,4,5-Tetramethylben...	12.642	119	41682	1.97 ppb		92
95) Nitrobenzene	13.048	77	301m	1.42 ppb		
96) 1,2,4-Trichlorobenzene	13.682	180	11230	2.07 ppb		96
97) Hexachloro-1,3-Butadiene	13.824	225	4235	2.00 ppb	#	91
98) Naphthalene	13.980	128	21161	1.99 ppb		95
99) 1,2,3-Trichlorobenzene	14.258	180	7036	2.06 ppb	#	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736082.D
Acq On : 18 Oct 2019 3:48 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL2
Misc : QBV7101819A
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 21 09:44:48 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736083.D
Acq On : 18 Oct 2019 4:17 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL3
Misc : QBV7101819A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 21 11:01:00 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.825	70	50252	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	217099	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	76944	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	54515	9.47	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.70%				
53) Toluene-d8 (SURR)	7.344	98	290304	11.84	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.40%				
73) p-Bromofluorobenzene (...	10.124	95	74543	10.06	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	32194m	4.04	ppb		
3) Chloromethane	1.697	50	41912	3.15	ppb		95
4) Vinyl Chloride	1.799	62	55925	4.03	ppb		100
5) Bromomethane	2.156	94	47888	6.18	ppb		96
6) Chloroethane	2.259	64	47131	4.02	ppb		100
7) Trichlorofluoromethane	2.495	101	160603	3.70	ppb		99
8) Ethanol	2.773	45	3036m	129.45	ppb		
9) Freon-113	3.004	101	28619	3.29	ppb	#	70
10) 1,1-Dichloroethylene	3.032	61	39633	3.21	ppb	#	79
11) Acrolein	2.987	56	2692m	2.62	ppb		
12) Acetone	3.143	43	4640m	0.54	ppb		
13) Iodomethane	3.210	142	18401	4.38	ppb		99
14) Ally Chloride	3.410	41	38632	2.19	ppb	#	83
15) Methyl Acetate	3.441	43	13002	2.46	ppb		97
16) Carbon disulfide	3.257	76	95889	3.43	ppb		100
17) tert-Butyl Alcohol (TBA)	3.686	59	8058m	13.28	ppb		
18) Methylene Chloride	3.555	49	33196m	2.47	ppb		
19) Acrylonitrile	3.833	53	4817	2.52	ppb	#	67
20) trans-1,2-Dichloroethy...	3.783	61	35443	2.77	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.755	73	74280	3.10	ppb	#	89
22) 1,1-Dichloroethane	4.206	63	51441	2.86	ppb		98
23) Vinyl Acetate	4.234	43	37235m	2.22	ppb		
24) Diisopropyl ether (DIPE)	4.195	45	80622	2.17	ppb	#	93
25) Ethyl-tert-Butyl ether...	4.534	59	75989	2.66	ppb	#	85
26) cis-1,2-Dichloroethylene	4.763	61	41096	2.75	ppb	#	86
27) 2-Butanone	4.782	72	3104m	3.20	ppb		
28) 2,2-Dichloropropane	4.735	77	43988	3.10	ppb	#	99
29) Tetrahydrofuran	5.030	71	2663	3.68	ppb	#	17
30) Bromochloromethane	5.005	49	20637	2.44	ppb	#	74
31) Chloroform	5.069	83	53223	3.01	ppb	#	99
32) 1,1,1-Trichloroethane	5.199	97	49589	3.01	ppb	#	98
33) Cyclohexane	5.216	56	41567	2.64	ppb	#	75
34) 1,1-Dichloropropylene	5.350	75	42591	3.20	ppb		83
36) Carbon Tetrachloride	5.341	117	49096	3.03	ppb	#	92
37) tert-Amyl alcohol (TAA)	5.589	59	19772	26.19	ppb	#	78
38) 1,2-Dichloroethane	5.622	62	26028	2.63	ppb	#	87
39) Benzene	5.561	78	126061	3.01	ppb	#	76
40) tert-Amyl methyl ether...	5.611	73	93539	2.90	ppb	#	90
42) Trichloroethylene	6.165	95	33543	4.21	ppb		85
43) Methyl Cyclohexane	6.296	83	45555	4.03	ppb	#	77
44) Methyl Methacrylate	6.479	69	15778	3.98	ppb	#	76
45) Dibromomethane	6.554	93	17409	4.05	ppb		99
46) Bromodichloromethane	6.696	83	37114	3.73	ppb		95
47) 1,2-Dichloropropane	6.412	63	29407	4.00	ppb	#	85
48) 1,4-Dioxane	6.560	88	1459m	116.59	ppb		
49) 2-Nitropropane	6.955	43	10148	3.52	ppb	#	74
50) 2-Chloroethyl vinyl ether	6.955	63	7738	3.84	ppb		97
51) cis-1,3-Dichloropropene	7.114	75	46613	3.97	ppb		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736083.D
Acq On : 18 Oct 2019 4:17 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL3
Misc : QBV7101819A
ALS Vial : 14 Sample Multiplier: 1

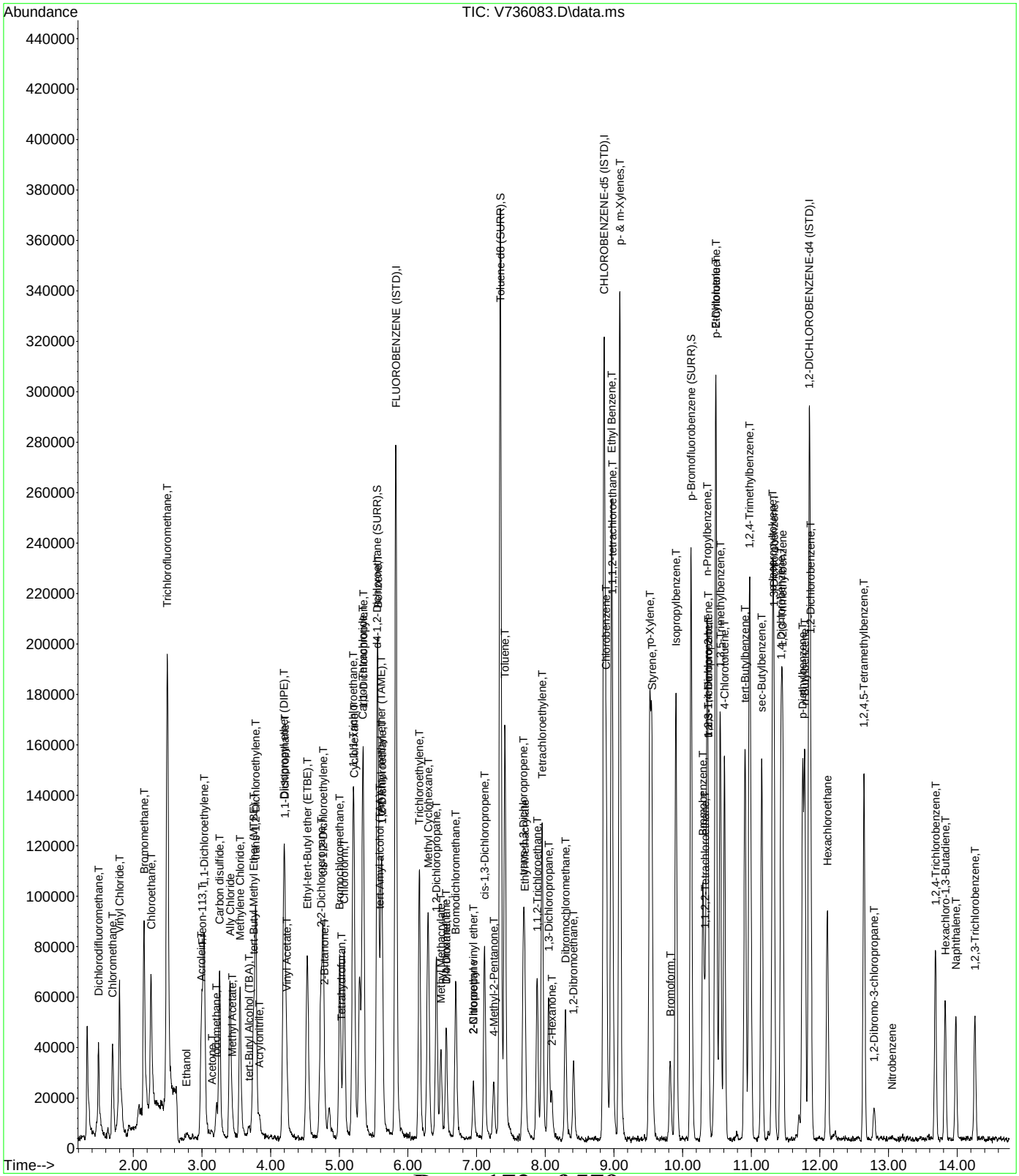
Quant Time: Oct 21 11:01:00 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.253	43	19310	2.56	ppb	#	92
54) Toluene	7.411	91	137506	3.98	ppb		99
55) Ethyl Methacrylate	7.701	69	30958	3.82	ppb	#	28
56) trans-1,3-Dichloropropene	7.681	75	39946	3.95	ppb		99
57) 1,1,2-Trichloroethane	7.884	97	21073	3.77	ppb		93
58) 1,3-Dichloropropane	8.051	76	35316	3.92	ppb	#	86
59) Tetrachloroethylene	7.957	166	35566	3.42	ppb	#	100
60) 2-Hexanone	8.096	43	13022	1.33	ppb	#	15
61) Dibromochloromethane	8.293	129	30342	3.67	ppb	#	93
62) 1,2-Dibromoethane	8.410	107	20441	3.71	ppb		94
63) Chlorobenzene	8.886	112	92480	3.83	ppb		91
64) 1,1,1,2-tetrachloroethane	8.978	131	33584	3.45	ppb		99
65) Ethyl Benzene	8.967	91	148265	3.70	ppb		94
66) p- & m-Xylenes	9.086	91	226945	9.60	ppb		94
67) o-Xylene	9.523	91	109902	3.56	ppb		96
68) Styrene	9.554	104	93627	3.53	ppb	#	100
69) Bromoform	9.821	173	15279	3.54	ppb	#	98
71) p-Ethyltoluene	10.483	105	136079	4.07	ppb	#	87
72) Isopropylbenzene	9.904	105	146609	4.38	ppb		95
74) 1,1,2,2-Tetrachloroethane	10.327	83	26856	4.30	ppb	#	99
75) Bromobenzene	10.296	77	44715	4.32	ppb		79
76) trans-1,4-Dichloro-2-b...	10.374	75	24088	3.76	ppb	#	91
77) 1,2,3-Trichloropropane	10.374	110	7500	3.99	ppb		83
78) n-Propylbenzene	10.358	91	169127	4.37	ppb		95
79) 2-Chlorotoluene	10.486	91	106968	3.97	ppb		97
80) 4-Chlorotoluene	10.611	91	92878	4.09	ppb		97
81) 1,3,5-Trimethylbenzene	10.550	105	112323	4.24	ppb		95
82) tert-Butylbenzene	10.909	119	101682	4.42	ppb		88
83) 1,2,4-Trimethylbenzene	10.973	105	113425	4.03	ppb		97
84) sec-Butylbenzene	11.153	105	130931	4.58	ppb		96
85) 1,3-Dichlorobenzene	11.331	146	67154	3.84	ppb		94
86) p-Isopropyltoluene	11.309	119	120922	4.05	ppb		93
87) 1,4-Dichlorobenzene	11.434	146	67860	3.95	ppb		94
88) 1,2,3-Trimethylbenzene	11.457	105	104671	3.83	ppb		95
89) p-Diethylbenzene	11.749	105	54777	4.30	ppb		97
90) 1,2-Dichlorobenzene	11.866	146	58047	4.04	ppb	#	99
91) n-Butylbenzene	11.779	91	98947m	4.70	ppb		
92) Hexachloroethane	12.108	117	23895	4.44	ppb	#	82
93) 1,2-Dibromo-3-chloropr...	12.789	75	3339	4.67	ppb	#	62
94) 1,2,4,5-Tetramethylben...	12.642	119	89988	4.09	ppb		96
95) Nitrobenzene	13.051	77	573	2.59	ppb	#	42
96) 1,2,4-Trichlorobenzene	13.685	180	24146	4.27	ppb		96
97) Hexachloro-1,3-Butadiene	13.827	225	9616	4.36	ppb		91
98) Naphthalene	13.980	128	44522	4.02	ppb		97
99) 1,2,3-Trichlorobenzene	14.261	180	15740	4.42	ppb		95

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

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736083.D
Acq On : 18 Oct 2019 4:17 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL3
Misc : QBV7101819A
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 21 11:01:00 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736084.D
Acq On : 18 Oct 2019 4:47 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL4
Misc : QBV7101819A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 21 09:37:42 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.820	70	51568	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	229715	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.846	152	82687	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.553	65	59284	10.04	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%				
53) Toluene-d8 (SURR)	7.344	98	302966	11.67	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.70%				
73) p-Bromofluorobenzene (...	10.124	95	79806	10.03	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	80905	9.90	ppb	#	86
3) Chloromethane	1.699	50	94320	6.91	ppb		99
4) Vinyl Chloride	1.802	62	131388	9.22	ppb		99
5) Bromomethane	2.158	94	115785	11.04	ppb		100
6) Chloroethane	2.261	64	108979	9.05	ppb		99
7) Trichlorofluoromethane	2.498	101	374463	8.40	ppb		99
8) Ethanol	2.776	45	5956m	247.48	ppb		
9) Freon-113	3.001	101	69859	7.84	ppb		95
10) 1,1-Dichloroethylene	3.035	61	103447	8.17	ppb	#	81
11) Acrolein	2.985	56	5848	5.55	ppb		90
12) Acetone	3.143	43	10160m	2.52	ppb		
13) Iodomethane	3.213	142	76846	9.82	ppb		99
14) Ally Chloride	3.410	41	103274	5.71	ppb	#	82
15) Methyl Acetate	3.438	43	27538	5.08	ppb	#	95
16) Carbon disulfide	3.257	76	241492	8.43	ppb		100
17) tert-Butyl Alcohol (TBA)	3.677	59	20287	32.57	ppb	#	100
18) Methylene Chloride	3.552	49	78321	5.69	ppb	#	63
19) Acrylonitrile	3.833	53	10078	5.14	ppb	#	67
20) trans-1,2-Dichloroethy...	3.786	61	92243	7.03	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.758	73	187865	7.63	ppb		95
22) 1,1-Dichloroethane	4.209	63	137031	7.43	ppb		98
23) Vinyl Acetate	4.237	43	95762m	5.57	ppb		
24) Diisopropyl ether (DIPE)	4.192	45	213977	5.62	ppb	#	91
25) Ethyl-tert-Butyl ether...	4.534	59	194102	6.61	ppb	#	85
26) cis-1,2-Dichloroethylene	4.765	61	110485	7.20	ppb	#	65
27) 2-Butanone	4.793	72	5451m	5.47	ppb		
28) 2,2-Dichloropropane	4.732	77	109863	7.55	ppb	#	99
29) Tetrahydrofuran	5.027	71	6095	7.67	ppb	#	57
30) Bromochloromethane	5.004	49	49017	5.64	ppb	#	66
31) Chloroform	5.071	83	139306	7.68	ppb	#	100
32) 1,1,1-Trichloroethane	5.202	97	130829	7.75	ppb	#	99
33) Cyclohexane	5.213	56	107631	6.67	ppb	#	72
34) 1,1-Dichloropropylene	5.349	75	111557	8.17	ppb		81
36) Carbon Tetrachloride	5.344	117	130110	7.82	ppb	#	58
37) tert-Amyl alcohol (TAA)	5.586	59	46721	60.31	ppb	#	78
38) 1,2-Dichloroethane	5.625	62	75911	7.47	ppb	#	98
39) Benzene	5.561	78	333871	7.77	ppb	#	71
40) tert-Amyl methyl ether...	5.611	73	247844	7.50	ppb	#	90
42) Trichloroethylene	6.170	95	85640	10.16	ppb		82
43) Methyl Cyclohexane	6.293	83	123122	10.29	ppb	#	73
44) Methyl Methacrylate	6.482	69	41933	10.01	ppb	#	74
45) Dibromomethane	6.554	93	43841	9.63	ppb		99
46) Bromodichloromethane	6.699	83	104150	9.90	ppb		97
47) 1,2-Dichloropropane	6.415	63	74123	9.52	ppb	#	85
48) 1,4-Dioxane	6.551	88	2789m	195.57	ppb		
49) 2-Nitropropane	6.952	43	22136	7.25	ppb	#	71
50) 2-Chloroethyl vinyl ether	6.958	63	21651	10.16	ppb		98
51) cis-1,3-Dichloropropene	7.116	75	122507	9.87	ppb		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736084.D
Acq On : 18 Oct 2019 4:47 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL4
Misc : QBV7101819A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 21 09:37:42 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

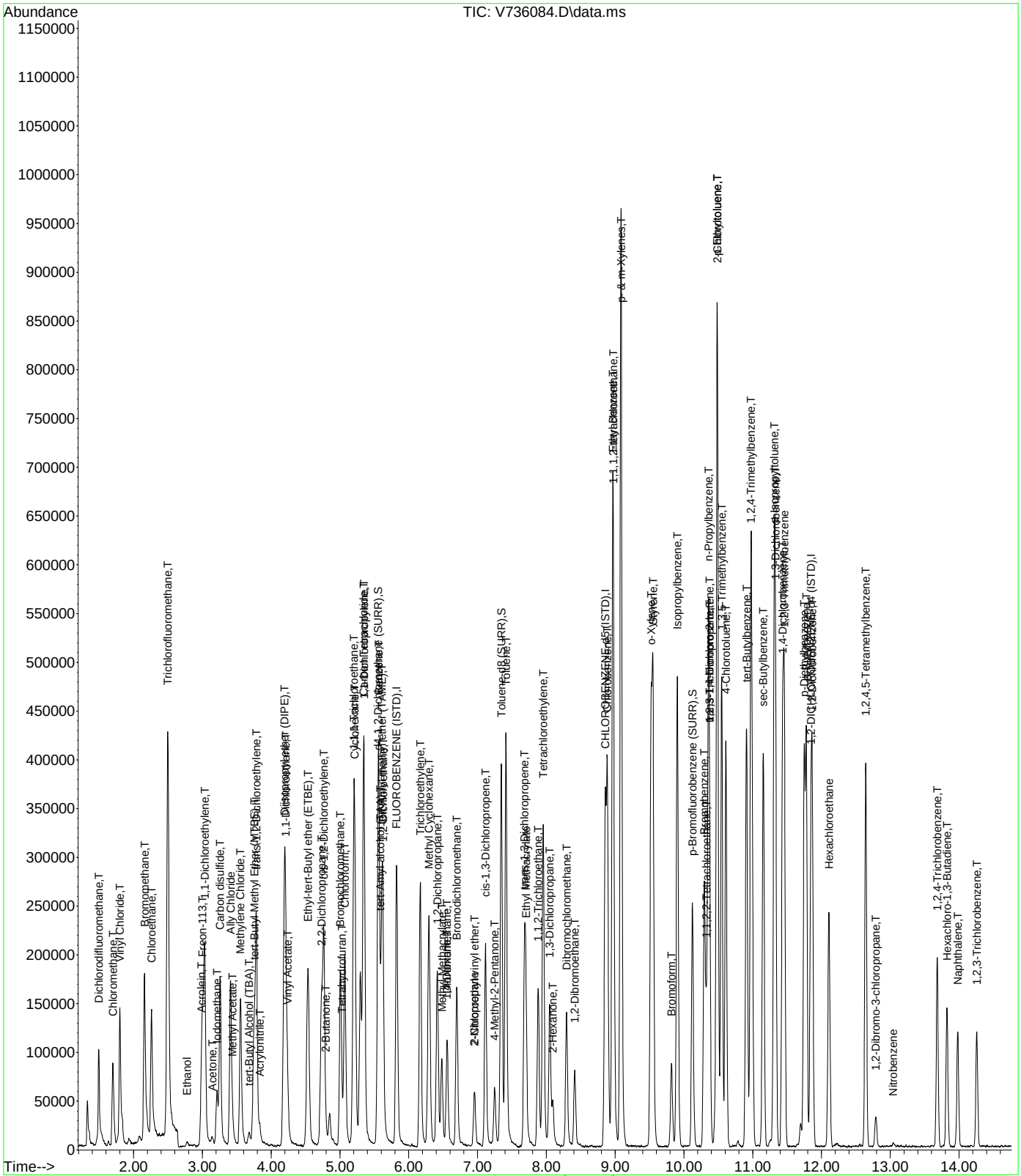
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.247	43	48166	7.25	ppb		92
54) Toluene	7.414	91	364997	9.99	ppb		98
55) Ethyl Methacrylate	7.703	69	84978	9.91	ppb	#	25
56) trans-1,3-Dichloropropene	7.681	75	101689	9.50	ppb		99
57) 1,1,2-Trichloroethane	7.881	97	54249	9.17	ppb		91
58) 1,3-Dichloropropane	8.048	76	94672	9.92	ppb	#	100
59) Tetrachloroethylene	7.956	166	93310	8.47	ppb	#	100
60) 2-Hexanone	8.093	43	33962	6.08	ppb		86
61) Dibromochloromethane	8.296	129	80350	9.18	ppb	#	95
62) 1,2-Dibromoethane	8.413	107	56101	9.62	ppb		93
63) Chlorobenzene	8.886	112	242652	9.50	ppb	#	88
64) 1,1,1,2-tetrachloroethane	8.975	131	94899	9.20	ppb		99
65) Ethyl Benzene	8.964	91	403866	9.53	ppb		96
66) p- & m-Xylenes	9.086	91	624109	18.10	ppb		93
67) o-Xylene	9.523	91	303137	9.28	ppb		97
68) Styrene	9.551	104	261214	9.30	ppb	#	100
69) Bromoform	9.818	173	38089	8.34	ppb	#	76
71) p-Ethyltoluene	10.483	105	383287	10.66	ppb	#	87
72) Isopropylbenzene	9.904	105	397160	11.04	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.327	83	67258	10.01	ppb	#	100
75) Bromobenzene	10.296	77	114972	10.35	ppb	#	75
76) trans-1,4-Dichloro-2-b...	10.374	75	66402	9.65	ppb	#	89
77) 1,2,3-Trichloropropane	10.374	110	20231	10.02	ppb		83
78) n-Propylbenzene	10.357	91	463112	11.13	ppb		96
79) 2-Chlorotoluene	10.485	91	296649	10.24	ppb		96
80) 4-Chlorotoluene	10.611	91	250828	10.29	ppb		95
81) 1,3,5-Trimethylbenzene	10.549	105	303186	10.64	ppb		97
82) tert-Butylbenzene	10.911	119	277535	11.22	ppb		88
83) 1,2,4-Trimethylbenzene	10.972	105	308738	10.22	ppb		96
84) sec-Butylbenzene	11.153	105	352688	11.47	ppb		96
85) 1,3-Dichlorobenzene	11.331	146	188038	10.01	ppb		95
86) p-Isopropyltoluene	11.312	119	342731	10.67	ppb		94
87) 1,4-Dichlorobenzene	11.434	146	183027	9.92	ppb		94
88) 1,2,3-Trimethylbenzene	11.459	105	284980	9.70	ppb		96
89) p-Diethylbenzene	11.749	105	149025	10.89	ppb		96
90) 1,2-Dichlorobenzene	11.865	146	157509	10.20	ppb	#	99
91) n-Butylbenzene	11.779	91	261922m	11.59	ppb		
92) Hexachloroethane	12.110	117	60788	10.50	ppb	#	88
93) 1,2-Dibromo-3-chloropr...	12.786	75	7555	9.83	ppb	#	39
94) 1,2,4,5-Tetramethylben...	12.644	119	247185	10.45	ppb		95
95) Nitrobenzene	13.042	77	1764m	7.43	ppb		
96) 1,2,4-Trichlorobenzene	13.682	180	61106	10.06	ppb		97
97) Hexachloro-1,3-Butadiene	13.824	225	24810	10.47	ppb		94
98) Naphthalene	13.980	128	112713	9.48	ppb		97
99) 1,2,3-Trichlorobenzene	14.258	180	37447	9.78	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736084.D
Acq On : 18 Oct 2019 4:47 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL4
Misc : QBV7101819A
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 21 09:37:42 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736085.D
Acq On : 18 Oct 2019 5:17 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL5
Misc : QBV7101819A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 10:23:33 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.825	70	55412	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	242185	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.846	152	91273	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.553	65	63073	9.94	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.40%				
53) Toluene-d8 (SURR)	7.345	98	319248	11.67	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.70%				
73) p-Bromofluorobenzene (...	10.124	95	86105	9.80	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	167546	19.08	ppb		100
3) Chloromethane	1.699	50	193821	13.21	ppb		99
4) Vinyl Chloride	1.802	62	277435	18.12	ppb		99
5) Bromomethane	2.158	94	260620	20.30	ppb		100
6) Chloroethane	2.261	64	243503	18.81	ppb		99
7) Trichlorofluoromethane	2.498	101	845428	17.64	ppb		99
8) Ethanol	2.779	45	16277	629.41	ppb	#	52
9) Freon-113	3.001	101	149010	15.56	ppb	#	76
10) 1,1-Dichloroethylene	3.035	61	214173	15.74	ppb	#	77
11) Acrolein	2.988	56	11629	10.26	ppb		95
12) Acetone	3.141	43	20674m	5.92	ppb		
13) Iodomethane	3.213	142	191591	19.34	ppb		99
14) Ally Chloride	3.408	41	212522	10.93	ppb	#	76
15) Methyl Acetate	3.438	43	61601m	10.58	ppb		
16) Carbon disulfide	3.260	76	521882	16.95	ppb		100
17) tert-Butyl Alcohol (TBA)	3.680	59	32286	48.24	ppb	#	100
18) Methylene Chloride	3.555	49	170496	11.52	ppb	#	67
19) Acrylonitrile	3.836	53	21239	10.08	ppb	#	67
20) trans-1,2-Dichloroethy...	3.786	61	200578	14.22	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.755	73	405210	15.32	ppb		94
22) 1,1-Dichloroethane	4.209	63	301162	15.21	ppb		98
23) Vinyl Acetate	4.237	43	179873m	9.73	ppb		
24) Diisopropyl ether (DIPE)	4.192	45	453069	11.07	ppb	#	93
25) Ethyl-tert-Butyl ether...	4.534	59	394291	12.50	ppb	#	93
26) cis-1,2-Dichloroethylene	4.765	61	235766	14.29	ppb	#	65
27) 2-Butanone	4.785	72	11615	10.85	ppb	#	100
28) 2,2-Dichloropropane	4.735	77	231655	14.81	ppb	#	86
29) Tetrahydrofuran	5.030	71	12306	14.04	ppb	#	54
30) Bromochloromethane	5.007	49	106339	11.40	ppb	#	68
31) Chloroform	5.071	83	295323	15.14	ppb	#	100
32) 1,1,1-Trichloroethane	5.202	97	285259	15.73	ppb	#	100
33) Cyclohexane	5.213	56	228745	13.18	ppb	#	71
34) 1,1-Dichloropropylene	5.350	75	252381	17.20	ppb		83
36) Carbon Tetrachloride	5.344	117	284935	15.94	ppb		99
37) tert-Amyl alcohol (TAA)	5.586	59	97327	116.93	ppb	#	78
38) 1,2-Dichloroethane	5.622	62	162009	14.83	ppb		99
39) Benzene	5.561	78	709257	15.37	ppb	#	68
40) tert-Amyl methyl ether...	5.608	73	520590	14.66	ppb	#	98
42) Trichloroethylene	6.168	95	175646	19.77	ppb		79
43) Methyl Cyclohexane	6.296	83	256314	20.32	ppb	#	73
44) Methyl Methacrylate	6.482	69	83441	18.89	ppb	#	73
45) Dibromomethane	6.557	93	91012	18.97	ppb		97
46) Bromodichloromethane	6.699	83	220173	19.86	ppb		97
47) 1,2-Dichloropropane	6.415	63	153650	18.72	ppb	#	85
48) 1,4-Dioxane	6.552	88	6280m	396.48	ppb		
49) 2-Nitropropane	6.952	43	48329	15.02	ppb	#	80
50) 2-Chloroethyl vinyl ether	6.955	63	43328	19.29	ppb		97
51) cis-1,3-Dichloropropene	7.114	75	257182	19.66	ppb		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736085.D
Acq On : 18 Oct 2019 5:17 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL5
Misc : QBV7101819A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 10:23:33 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

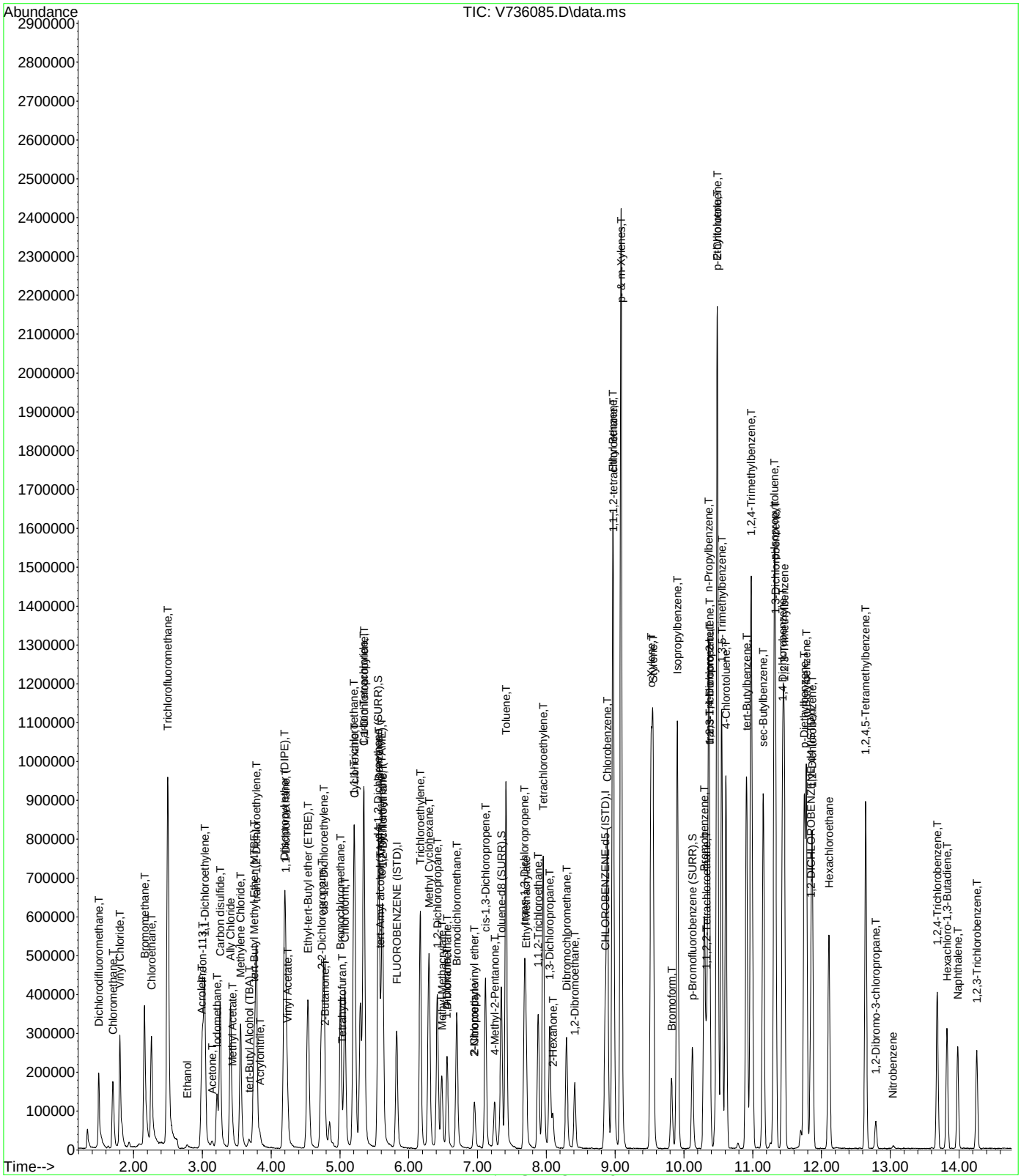
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.250	43	98813	14.96	ppb	#	94
54) Toluene	7.414	91	786913	20.43	ppb		99
55) Ethyl Methacrylate	7.703	69	182938	20.24	ppb	#	26
56) trans-1,3-Dichloropropene	7.681	75	215715	19.11	ppb		99
57) 1,1,2-Trichloroethane	7.881	97	112647	18.06	ppb		92
58) 1,3-Dichloropropane	8.048	76	194884	19.37	ppb	#	99
59) Tetrachloroethylene	7.957	166	210343	18.11	ppb	#	100
60) 2-Hexanone	8.096	43	65896	12.79	ppb		99
61) Dibromochloromethane	8.293	129	167222	18.11	ppb	#	95
62) 1,2-Dibromoethane	8.413	107	116241	18.91	ppb		98
63) Chlorobenzene	8.886	112	521773	19.37	ppb	#	87
64) 1,1,1,2-tetrachloroethane	8.975	131	214666	19.75	ppb		99
65) Ethyl Benzene	8.967	91	909235	20.35	ppb		97
66) p- & m-Xylenes	9.086	91	1464778	35.06	ppb		93
67) o-Xylene	9.523	91	671973	19.52	ppb		97
68) Styrene	9.551	104	579303	19.56	ppb	#	100
69) Bromoform	9.821	173	81489	16.91	ppb	#	99
71) p-Ethyltoluene	10.483	105	893911	22.52	ppb	#	87
72) Isopropylbenzene	9.904	105	887213	22.34	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.327	83	144694	19.51	ppb	#	100
75) Bromobenzene	10.296	77	257093	20.96	ppb		78
76) trans-1,4-Dichloro-2-b...	10.374	75	144675	19.05	ppb	#	90
77) 1,2,3-Trichloropropane	10.374	110	43979	19.73	ppb		84
78) n-Propylbenzene	10.360	91	1042635	22.69	ppb		97
79) 2-Chlorotoluene	10.486	91	685729	21.44	ppb		96
80) 4-Chlorotoluene	10.611	91	565398	21.01	ppb		95
81) 1,3,5-Trimethylbenzene	10.550	105	695585	22.12	ppb		96
82) tert-Butylbenzene	10.911	119	607385	22.25	ppb		90
83) 1,2,4-Trimethylbenzene	10.975	105	720155	21.59	ppb		97
84) sec-Butylbenzene	11.153	105	789604	23.27	ppb		96
85) 1,3-Dichlorobenzene	11.331	146	438094	21.13	ppb		93
86) p-Isopropyltoluene	11.312	119	801260	22.60	ppb		95
87) 1,4-Dichlorobenzene	11.434	146	422711	20.76	ppb		93
88) 1,2,3-Trimethylbenzene	11.459	105	641860	19.79	ppb		95
89) p-Diethylbenzene	11.749	105	338327	22.39	ppb		97
90) 1,2-Dichlorobenzene	11.866	146	349092	20.48	ppb	#	100
91) n-Butylbenzene	11.779	91	593301m	23.78	ppb		
92) Hexachloroethane	12.108	117	139367	21.81	ppb	#	87
93) 1,2-Dibromo-3-chloropr...	12.789	75	15623	18.41	ppb	#	61
94) 1,2,4,5-Tetramethylben...	12.642	119	551396	21.11	ppb		95
95) Nitrobenzene	13.040	77	3458	13.20	ppb		98
96) 1,2,4-Trichlorobenzene	13.682	180	131550	19.62	ppb		97
97) Hexachloro-1,3-Butadiene	13.824	225	52920	20.24	ppb		94
98) Naphthalene	13.980	128	238473	18.17	ppb		98
99) 1,2,3-Trichlorobenzene	14.256	180	80904	19.14	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736085.D
Acq On : 18 Oct 2019 5:17 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL5
Misc : QBV7101819A
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 21 10:23:33 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736086.D
Acq On : 18 Oct 2019 5:47 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL6
Misc : QBV7101819A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 10:56:11 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.825	70	56918	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	259569	10.00	ppb		# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.846	152	102522	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.553	65	74866	11.49	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.90%				
53) Toluene-d8 (SURR)	7.347	98	328899	11.22	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.20%				
73) p-Bromofluorobenzene (...	10.124	95	89400	9.06	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	334154	37.05	ppb		100
3) Chloromethane	1.696	50	425124	28.20	ppb		98
4) Vinyl Chloride	1.799	62	588879	37.45	ppb		99
5) Bromomethane	2.155	94	655736	45.96	ppb		100
6) Chloroethane	2.258	64	548918	41.29	ppb		99
7) Trichlorofluoromethane	2.495	101	1934916	39.31	ppb		99
8) Ethanol	2.781	45	42640	1605.20	ppb	#	52
9) Freon-113	3.001	101	318547	32.38	ppb		96
10) 1,1-Dichloroethylene	3.032	61	483876	34.62	ppb		80
11) Acrolein	2.990	56	26316	22.61	ppb		95
12) Acetone	3.140	43	40845	12.85	ppb	#	100
13) Iodomethane	3.213	142	426885	38.91	ppb		99
14) Ally Chloride	3.407	41	486428	24.36	ppb	#	78
15) Methyl Acetate	3.438	43	139675	23.36	ppb	#	97
16) Carbon disulfide	3.257	76	1149671	36.35	ppb		100
17) tert-Butyl Alcohol (TBA)	3.680	59	63198	91.93	ppb	#	100
18) Methylene Chloride	3.555	49	372477	24.50	ppb	#	66
19) Acrylonitrile	3.830	53	47582	21.99	ppb	#	67
20) trans-1,2-Dichloroethy...	3.786	61	460817	31.81	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.755	73	928034	34.17	ppb	#	89
22) 1,1-Dichloroethane	4.209	63	692172	34.02	ppb		98
23) Vinyl Acetate	4.237	43	435023m	22.91	ppb		
24) Diisopropyl ether (DIPE)	4.192	45	1068344	25.42	ppb	#	96
25) Ethyl-tert-Butyl ether...	4.534	59	929685	28.70	ppb	#	93
26) cis-1,2-Dichloroethylene	4.765	61	524892	30.97	ppb	#	85
27) 2-Butanone	4.782	72	29260	26.61	ppb	#	100
28) 2,2-Dichloropropane	4.735	77	505650	31.46	ppb	#	99
29) Tetrahydrofuran	5.024	71	28458	31.05	ppb	#	1
30) Bromochloromethane	5.004	49	228797	23.87	ppb	#	65
31) Chloroform	5.071	83	664106	33.16	ppb	#	99
32) 1,1,1-Trichloroethane	5.202	97	665982	35.74	ppb	#	100
33) Cyclohexane	5.213	56	500373	28.08	ppb	#	72
34) 1,1-Dichloropropylene	5.349	75	579490	38.46	ppb		82
36) Carbon Tetrachloride	5.344	117	671855	36.59	ppb		99
37) tert-Amyl alcohol (TAA)	5.583	59	271508	317.56	ppb	#	78
38) 1,2-Dichloroethane	5.622	62	389644	34.73	ppb		99
39) Benzene	5.564	78	1627879	34.33	ppb	#	67
40) tert-Amyl methyl ether...	5.614	73	1270011	34.81	ppb	#	90
42) Trichloroethylene	6.167	95	404823	42.52	ppb		81
43) Methyl Cyclohexane	6.293	83	540090	39.95	ppb	#	73
44) Methyl Methacrylate	6.482	69	185298	39.13	ppb	#	75
45) Dibromomethane	6.557	93	208694	40.58	ppb		98
46) Bromodichloromethane	6.699	83	493944	41.56	ppb		95
47) 1,2-Dichloropropane	6.415	63	345663	39.29	ppb		98
48) 1,4-Dioxane	6.551	88	19006m	1085.48	ppb		
49) 2-Nitropropane	6.955	43	110376	32.01	ppb	#	73
50) 2-Chloroethyl vinyl ether	6.958	63	97326	40.42	ppb		98
51) cis-1,3-Dichloropropene	7.116	75	575741	41.06	ppb		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736086.D
Acq On : 18 Oct 2019 5:47 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL6
Misc : QBV7101819A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 10:56:11 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

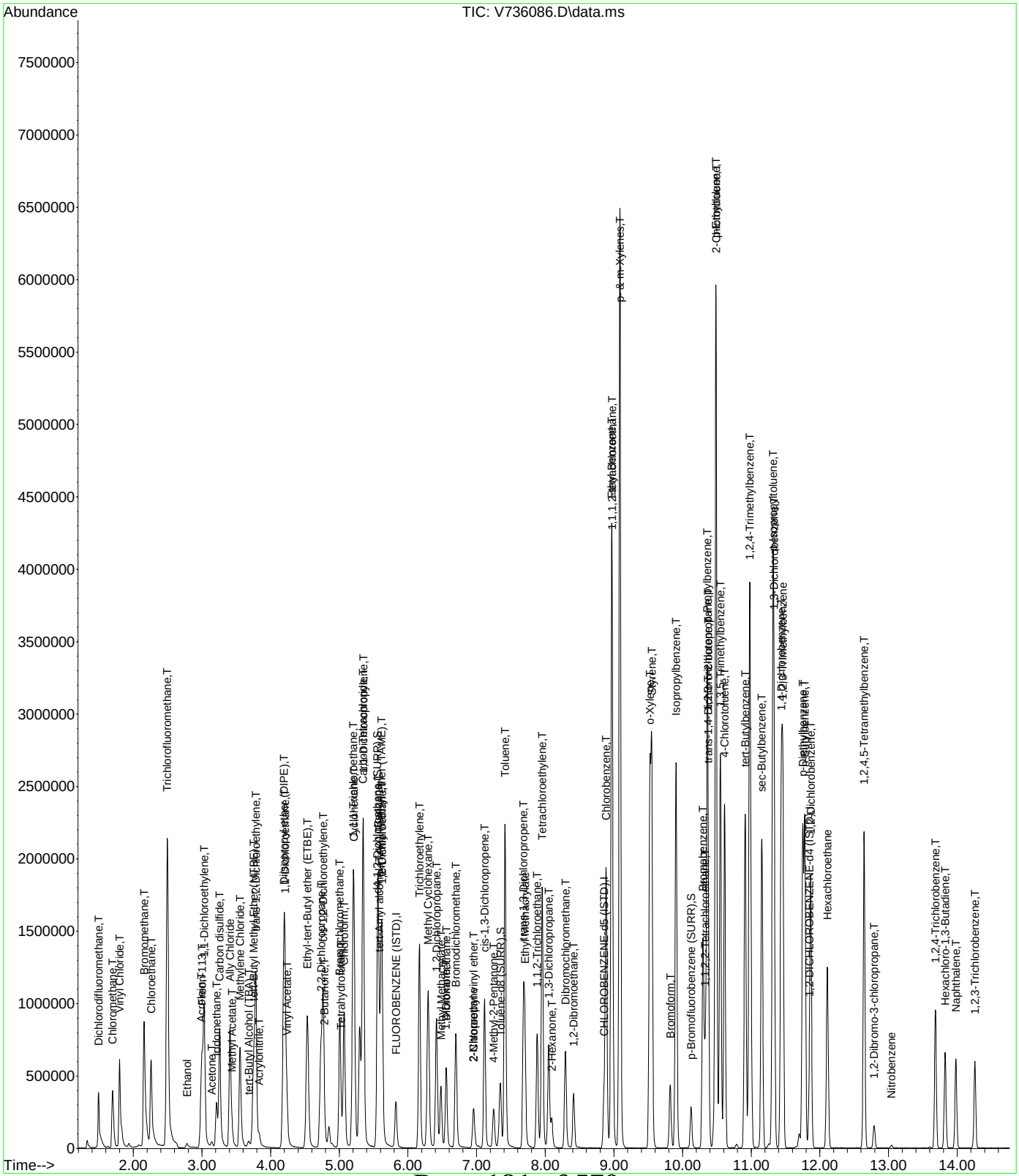
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.247	43	217695	31.69	ppb		95
54) Toluene	7.414	91	1792434	43.42	ppb		99
55) Ethyl Methacrylate	7.703	69	415173	42.86	ppb	#	28
56) trans-1,3-Dichloropropene	7.684	75	504026	41.67	ppb		99
57) 1,1,2-Trichloroethane	7.881	97	252974	37.84	ppb		92
58) 1,3-Dichloropropane	8.051	76	433332	40.19	ppb	#	99
59) Tetrachloroethylene	7.956	166	490327	39.39	ppb	#	100
60) 2-Hexanone	8.096	43	148672	29.03	ppb		91
61) Dibromochloromethane	8.293	129	376237	38.02	ppb	#	94
62) 1,2-Dibromoethane	8.413	107	252939	38.39	ppb		98
63) Chlorobenzene	8.886	112	1203819	41.70	ppb	#	87
64) 1,1,1,2-tetrachloroethane	8.975	131	544088	46.70	ppb		98
65) Ethyl Benzene	8.966	91	2213809	46.22	ppb		96
66) p- & m-Xylenes	9.086	91	3759370	77.99	ppb		93
67) o-Xylene	9.523	91	1624663	44.04	ppb		98
68) Styrene	9.551	104	1435476	45.21	ppb	#	100
69) Bromoform	9.821	173	196858	38.12	ppb	#	99
71) p-Ethyltoluene	10.485	105	2267591	50.85	ppb	#	87
72) Isopropylbenzene	9.904	105	2083120	46.70	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.330	83	342435	41.11	ppb	#	99
75) Bromobenzene	10.296	77	594959	43.18	ppb		77
76) trans-1,4-Dichloro-2-b...	10.374	75	373110	43.74	ppb	#	88
77) 1,2,3-Trichloropropane	10.371	110	109090	43.56	ppb		84
78) n-Propylbenzene	10.360	91	2482098	48.09	ppb		96
79) 2-Chlorotoluene	10.488	91	1761296	49.03	ppb		96
80) 4-Chlorotoluene	10.611	91	1333161	44.11	ppb		95
81) 1,3,5-Trimethylbenzene	10.549	105	1649856	46.71	ppb		96
82) tert-Butylbenzene	10.911	119	1423678	46.42	ppb		89
83) 1,2,4-Trimethylbenzene	10.975	105	1786269	47.68	ppb		96
84) sec-Butylbenzene	11.153	105	1774993	46.56	ppb		96
85) 1,3-Dichlorobenzene	11.331	146	1123834	48.26	ppb		93
86) p-Isopropyltoluene	11.315	119	1968516	49.44	ppb		95
87) 1,4-Dichlorobenzene	11.437	146	1043193	45.62	ppb		93
88) 1,2,3-Trimethylbenzene	11.459	105	1573697	43.20	ppb		95
89) p-Diethylbenzene	11.751	105	781450	46.04	ppb		97
90) 1,2-Dichlorobenzene	11.868	146	819678	42.81	ppb	#	68
91) n-Butylbenzene	11.779	91	1371455m	48.93	ppb		
92) Hexachloroethane	12.108	117	309725	43.16	ppb	#	88
93) 1,2-Dibromo-3-chloropr...	12.789	75	34555	36.26	ppb	#	74
94) 1,2,4,5-Tetramethylben...	12.644	119	1308103	44.59	ppb		95
95) Nitrobenzene	13.042	77	9544	32.43	ppb	#	83
96) 1,2,4-Trichlorobenzene	13.682	180	307350	40.80	ppb		97
97) Hexachloro-1,3-Butadiene	13.824	225	109407	37.24	ppb		94
98) Naphthalene	13.980	128	559233	37.94	ppb		98
99) 1,2,3-Trichlorobenzene	14.258	180	191246	40.28	ppb		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736086.D
Acq On : 18 Oct 2019 5:47 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL6
Misc : QBV7101819A
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 21 10:56:11 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736087.D
Acq On : 18 Oct 2019 6:16 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL7
Misc : QBV7101819A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 11:03:39 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.822	70	62157	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.858	117	284361	10.00	ppb		0.00
70) 1,2-DICHLOROBENZENE-d4...	11.852	152	125296	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.555	65	90914	12.77	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 127.70%				
53) Toluene-d8 (SURR)	7.347	98	351521	10.94	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.40%				
73) p-Bromofluorobenzene (...	10.127	95	97177	8.06	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 80.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	694358	70.51	ppb		100
3) Chloromethane	1.696	50	932665	56.66	ppb		98
4) Vinyl Chloride	1.799	62	1246959	72.62	ppb		99
5) Bromomethane	2.158	94	1490541	92.87	ppb		99
6) Chloroethane	2.258	64	1139758	78.50	ppb		99
7) Trichlorofluoromethane	2.498	101	3860447	71.81	ppb		99
8) Ethanol	2.782	45	69048	2380.25	ppb	#	52
9) Freon-113	3.001	101	742131	69.07	ppb		96
10) 1,1-Dichloroethylene	3.032	61	1128965	73.96	ppb		80
11) Acrolein	2.990	56	63373	49.86	ppb		95
12) Acetone	3.140	43	87041	27.97	ppb	#	100
13) Iodomethane	3.213	142	956674	77.10	ppb		99
14) Ally Chloride	3.408	41	1100421	50.46	ppb	#	79
15) Methyl Acetate	3.435	43	303060	46.41	ppb	#	94
16) Carbon disulfide	3.257	76	2630211	76.15	ppb		100
17) tert-Butyl Alcohol (TBA)	3.680	59	124072	165.27	ppb	#	100
18) Methylene Chloride	3.555	49	827362	49.83	ppb	#	65
19) Acrylonitrile	3.833	53	104436	44.20	ppb	#	67
20) trans-1,2-Dichloroethy...	3.786	61	1115834	70.52	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.755	73	2206145	74.38	ppb		95
22) 1,1-Dichloroethane	4.209	63	1706324	76.80	ppb		98
23) Vinyl Acetate	4.237	43	1010311m	48.71	ppb		
24) Diisopropyl ether (DIPE)	4.192	45	2563611	55.86	ppb	#	91
25) Ethyl-tert-Butyl ether...	4.534	59	2198471	62.16	ppb	#	93
26) cis-1,2-Dichloroethylene	4.765	61	1267378	68.47	ppb	#	85
27) 2-Butanone	4.782	72	72046	60.00	ppb	#	100
28) 2,2-Dichloropropane	4.735	77	1187441	67.66	ppb	#	99
29) Tetrahydrofuran	5.024	71	64846	64.33	ppb	#	1
30) Bromochloromethane	5.007	49	521487	49.82	ppb	#	64
31) Chloroform	5.071	83	1546684	70.71	ppb	#	99
32) 1,1,1-Trichloroethane	5.205	97	1723474	84.70	ppb	#	99
33) Cyclohexane	5.213	56	1258536	64.67	ppb	#	71
34) 1,1-Dichloropropylene	5.352	75	1493718	90.78	ppb		78
36) Carbon Tetrachloride	5.344	117	1826459	91.08	ppb		99
37) tert-Amyl alcohol (TAA)	5.583	59	638774	684.14	ppb	#	78
38) 1,2-Dichloroethane	5.622	62	1017657	83.05	ppb		98
39) Benzene	5.564	78	3978467	76.84	ppb	#	66
40) tert-Amyl methyl ether...	5.614	73	3240012	81.31	ppb	#	99
42) Trichloroethylene	6.168	95	1004940	96.35	ppb		79
43) Methyl Cyclohexane	6.295	83	1318866	89.06	ppb	#	74
44) Methyl Methacrylate	6.482	69	428262	82.56	ppb	#	26
45) Dibromomethane	6.557	93	488688	86.74	ppb		99
46) Bromodichloromethane	6.696	83	1153169	88.57	ppb		95
47) 1,2-Dichloropropane	6.415	63	798797	82.89	ppb		97
48) 1,4-Dioxane	6.551	88	32847m	1701.63	ppb		
49) 2-Nitropropane	6.952	43	249195	65.97	ppb	#	75
50) 2-Chloroethyl vinyl ether	6.958	63	220397	83.56	ppb		97
51) cis-1,3-Dichloropropene	7.116	75	1356861	88.32	ppb		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736087.D
Acq On : 18 Oct 2019 6:16 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL7
Misc : QBV7101819A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 11:03:39 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration

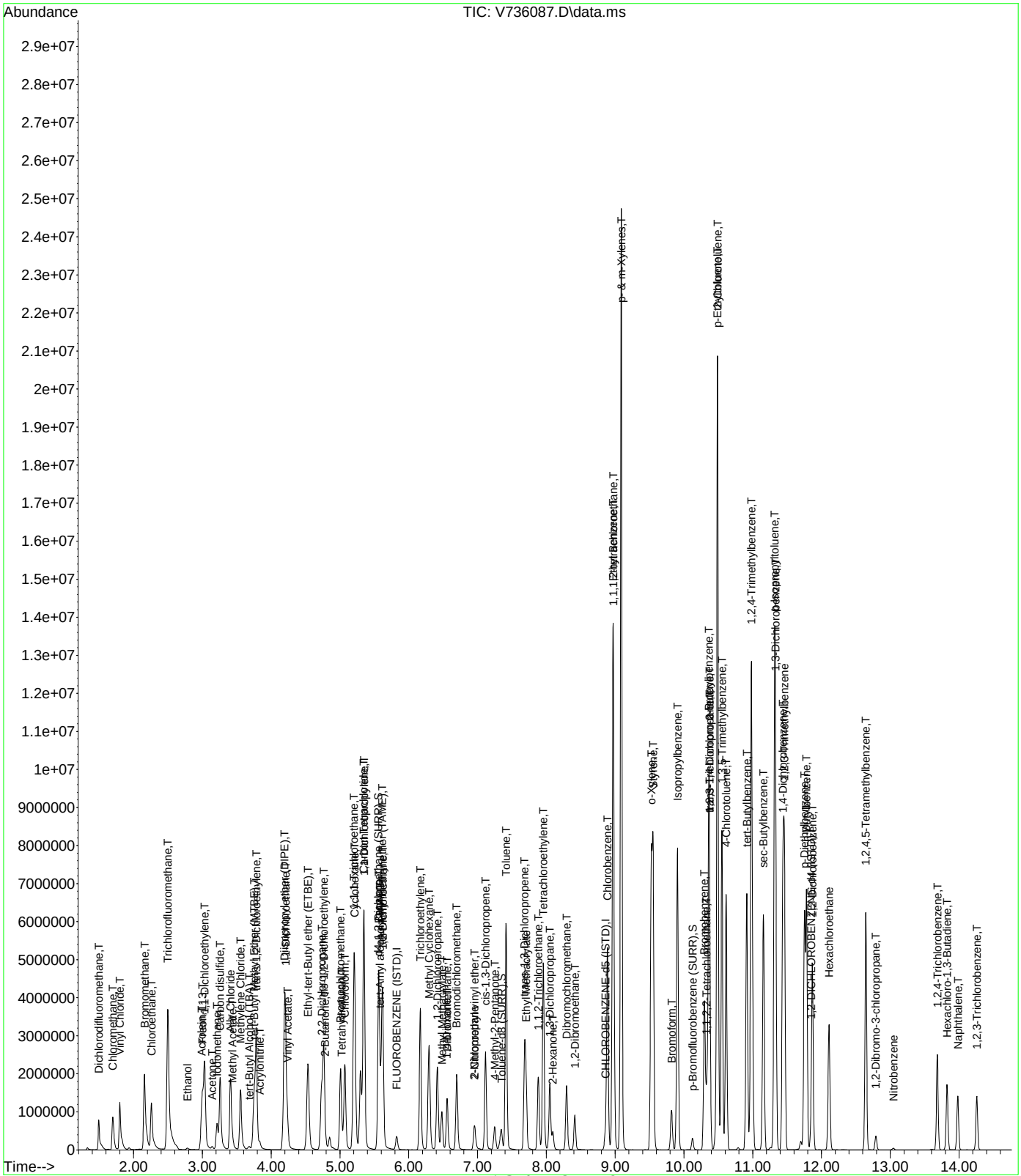
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.250	43	479073	64.57	ppb	#	94
54) Toluene	7.414	91	4546316	100.52	ppb		99
55) Ethyl Methacrylate	7.706	69	1009124	95.09	ppb	#	27
56) trans-1,3-Dichloropropene	7.684	75	1229100	92.76	ppb		99
57) 1,1,2-Trichloroethane	7.884	97	597135	81.53	ppb		93
58) 1,3-Dichloropropane	8.051	76	1002883	84.90	ppb	#	100
59) Tetrachloroethylene	7.956	166	1277286	93.66	ppb	#	100
60) 2-Hexanone	8.093	43	339126	62.50	ppb		95
61) Dibromochloromethane	8.296	129	914598	84.38	ppb	#	95
62) 1,2-Dibromoethane	8.416	107	579414	80.27	ppb		99
63) Chlorobenzene	8.889	112	3095119	97.86	ppb	#	86
64) 1,1,1,2-tetrachloroethane	8.975	131	1667764	130.66	ppb		98
65) Ethyl Benzene	8.969	91	6459784	123.12	ppb		94
66) p- & m-Xylenes	9.089	91	12156832	221.85	ppb		88
67) o-Xylene	9.526	91	4602800	113.88	ppb		97
68) Styrene	9.551	104	4027731	115.80	ppb	#	100
69) Bromoform	9.821	173	471165	83.29	ppb	#	76
71) p-Ethyltoluene	10.486	105	7119302	130.64	ppb	#	87
72) Isopropylbenzene	9.907	105	5655086	103.73	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.330	83	826751	81.22	ppb	#	99
75) Bromobenzene	10.296	77	1507374	89.52	ppb	#	75
76) trans-1,4-Dichloro-2-b...	10.374	75	1018207	97.66	ppb	#	88
77) 1,2,3-Trichloropropane	10.374	110	302773	98.93	ppb		86
78) n-Propylbenzene	10.363	91	6952892	110.23	ppb		95
79) 2-Chlorotoluene	10.488	91	5660025	128.91	ppb	#	96
80) 4-Chlorotoluene	10.614	91	3501043	94.79	ppb		94
81) 1,3,5-Trimethylbenzene	10.552	105	4591417	106.36	ppb		96
82) tert-Butylbenzene	10.914	119	3835838	102.35	ppb		90
83) 1,2,4-Trimethylbenzene	10.978	105	5342742	116.69	ppb		95
84) sec-Butylbenzene	11.156	105	4709492	101.09	ppb		95
85) 1,3-Dichlorobenzene	11.331	146	3386842	119.01	ppb		94
86) p-Isopropyltoluene	11.317	119	6050603	124.33	ppb		95
87) 1,4-Dichlorobenzene	11.437	146	3018834	108.02	ppb		93
88) 1,2,3-Trimethylbenzene	11.459	105	4500759	101.10	ppb		94
89) p-Diethylbenzene	11.751	105	2206494	106.36	ppb		97
90) 1,2-Dichlorobenzene	11.868	146	2146549	91.73	ppb	#	99
91) n-Butylbenzene	11.782	91	3587433m	104.72	ppb		
92) Hexachloroethane	12.110	117	804499	91.73	ppb	#	88
93) 1,2-Dibromo-3-chloropr...	12.789	75	79707	68.44	ppb	#	39
94) 1,2,4,5-Tetramethylben...	12.645	119	3573610	99.68	ppb		95
95) Nitrobenzene	13.048	77	22761	63.29	ppb	#	80
96) 1,2,4-Trichlorobenzene	13.685	180	772698	83.93	ppb		98
97) Hexachloro-1,3-Butadiene	13.824	225	283731	79.03	ppb		94
98) Naphthalene	13.983	128	1299212	72.11	ppb		99
99) 1,2,3-Trichlorobenzene	14.258	180	447232	77.07	ppb		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736087.D
Acq On : 18 Oct 2019 6:16 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CAL7
Misc : QBV7101819A
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 21 11:03:39 2019
Quant Method : C:\msdchem\1\methods\V7LO0135.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Tue Oct 08 12:28:46 2019
Response via : Initial Calibration



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19L0677

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41433.00 TASK 0600 Katonah Municipal W

Calibration: YJ90021 **Laboratory ID:** Y9J2114-SCV1

Sequence: Y9J2114 **Standard ID:** Y19J110

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1-Trichloroethane	10.0	9.45	-5.5	30.00
1,1,2,2-Tetrachloroethane	10.0	10.0	0.0	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.71	-2.9	30.00
1,1,2-Trichloroethane	10.0	9.75	-2.5	30.00
1,1-Dichloroethane	10.0	9.30	-7.0	30.00
1,1-Dichloroethylene	10.0	10.1	0.8	30.00
1,2,3-Trichlorobenzene	10.0	10.3	3.0	30.00
1,2,4-Trichlorobenzene	10.0	10.2	1.9	30.00
1,2-Dibromo-3-chloropropane	10.0	10.4	4.2	30.00
1,2-Dibromoethane	10.0	9.59	-4.1	30.00
1,2-Dichlorobenzene	10.0	9.77	-2.3	30.00
1,2-Dichloroethane	10.0	9.24	-7.6	30.00
1,2-Dichloropropane	10.0	9.42	-5.8	30.00
1,3-Dichlorobenzene	10.0	9.99	-0.1	30.00
1,4-Dichlorobenzene	10.0	9.13	-8.7	30.00
2-Butanone	10.0	9.79	-2.1	30.00
2-Hexanone	10.0	10.0	0.0	30.00
4-Methyl-2-pentanone	10.0	9.54	-4.6	30.00
Acetone	10.0	9.38	-6.2	30.00
Benzene	10.0	9.44	-5.6	30.00
Bromochloromethane	10.0	9.56	-4.4	30.00
Bromodichloromethane	10.0	10.2	1.5	30.00
Bromoform	10.0	9.83	-1.7	30.00
Bromomethane	10.0	11.2	12.1	30.00
Carbon disulfide	10.0	10.2	1.8	30.00
Carbon tetrachloride	10.0	9.89	-1.1	30.00
Chlorobenzene	10.0	9.38	-6.2	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260C

Laboratory: York Analytical Laboratories, Inc. **SDG:** 19L0677

Client: Chazen Environmental Services (Poughkeepsie) **Project:** 41433.00 TASK 0600 Katonah Municipal W

Calibration: YJ90021 **Laboratory ID:** Y9J2114-SCV1

Sequence: Y9J2114 **Standard ID:** Y19J110

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Chloroethane	10.0	9.93	-0.7	30.00
Chloroform	10.0	9.47	-5.3	30.00
Chloromethane	10.0	9.84	-1.6	30.00
cis-1,2-Dichloroethylene	10.0	9.23	-7.7	30.00
cis-1,3-Dichloropropylene	10.0	9.88	-1.2	30.00
Cyclohexane	10.0	9.34	-6.6	30.00
Dibromochloromethane	10.0	9.83	-1.7	30.00
Dichlorodifluoromethane	10.0	12.8	27.5	30.00
Ethyl Benzene	10.0	9.77	-2.3	30.00
Isopropylbenzene	10.0	9.72	-2.8	30.00
Methyl acetate	10.0	9.72	-2.8	30.00
Methyl tert-butyl ether (MTBE)	10.0	9.54	-4.6	30.00
Methylcyclohexane	10.0	10.0	0.0	30.00
Methylene chloride	10.0	10.7	7.1	30.00
o-Xylene	10.0	9.85	-1.5	30.00
p- & m- Xylenes	20.0	17.6	-12.2	30.00
Styrene	10.0	9.82	-1.8	30.00
Tetrachloroethylene	10.0	8.55	-14.5	30.00
Toluene	10.0	9.75	-2.5	30.00
trans-1,2-Dichloroethylene	10.0	10.0	0.1	30.00
trans-1,3-Dichloropropylene	10.0	9.65	-3.5	30.00
Trichloroethylene	10.0	9.79	-2.1	30.00
Trichlorofluoromethane	10.0	9.41	-5.9	30.00
Vinyl Chloride	10.0	9.10	-9.0	30.00

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736093.D
Acq On : 18 Oct 2019 9:15 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-SCV1
Misc : QBV7101819A
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 21 11:10:20 2019
Quant Method : C:\msdchem\1\methods\V7LO0136.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Oct 21 11:04:26 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.823	70	63010	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.858	117	266302	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.846	152	93487	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	68425	9.18	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.80%				
53) Toluene-d8 (SURR)	7.347	98	356670	10.26	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.60%				
73) p-Bromofluorobenzene (...	10.124	95	93856	10.83	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	124436	12.75	ppb		99
3) Chloromethane	1.696	50	122980	9.84	ppb		98
4) Vinyl Chloride	1.799	62	153859	9.10	ppb		99
5) Bromomethane	2.156	94	188846	11.21	ppb		99
6) Chloroethane	2.258	64	148035	9.93	ppb		99
7) Trichlorofluoromethane	2.498	101	482072	9.41	ppb		99
9) Freon-113	3.001	101	88967	9.71	ppb		97
10) 1,1-Dichloroethylene	3.035	61	130285	10.08	ppb	#	80
11) Acrolein	2.987	56	7448	9.66	ppb		95
12) Acetone	3.140	43	11765m	9.38	ppb		
13) Iodomethane	3.213	142	71034	7.85	ppb		99
14) Ally Chloride	3.408	41	117787	9.11	ppb	#	75
15) Methyl Acetate	3.438	43	38437m	9.72	ppb		
16) Carbon disulfide	3.257	76	315688	10.18	ppb		100
17) tert-Butyl Alcohol (TBA)	3.680	59	25310	47.52	ppb	#	100
18) Methylene Chloride	3.555	49	109419	10.71	ppb	#	65
19) Acrylonitrile	3.833	53	12842	9.78	ppb	#	67
20) trans-1,2-Dichloroethy...	3.786	61	121577	10.01	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.753	73	233855	9.54	ppb	#	88
22) 1,1-Dichloroethane	4.206	63	165223	9.30	ppb		98
23) Vinyl Acetate	4.237	43	121078m	10.47	ppb		
24) Diisopropyl ether (DIPE)	4.189	45	262086	9.57	ppb	#	95
25) Ethyl-tert-Butyl ether...	4.532	59	241482	9.81	ppb	#	93
26) cis-1,2-Dichloroethylene	4.765	61	128627	9.23	ppb	#	78
27) 2-Butanone	4.790	72	7060	9.79	ppb	#	100
28) 2,2-Dichloropropane	4.732	77	121246	8.71	ppb	#	99
29) Tetrahydrofuran	5.027	71	7759m	10.24	ppb		
30) Bromochloromethane	5.005	49	61488	9.56	ppb	#	69
31) Chloroform	5.069	83	168551	9.47	ppb	#	99
32) 1,1,1-Trichloroethane	5.199	97	159561	9.45	ppb	#	100
33) Cyclohexane	5.213	56	130539	9.34	ppb	#	75
34) 1,1-Dichloropropylene	5.350	75	135165	9.20	ppb		85
36) Carbon Tetrachloride	5.341	117	151873	9.89	ppb	#	91
37) tert-Amyl alcohol (TAA)	5.586	59	58490	89.45	ppb	#	78
38) 1,2-Dichloroethane	5.622	62	88386	9.24	ppb		98
39) Benzene	5.561	78	401028	9.44	ppb	#	71
40) tert-Amyl methyl ether...	5.611	73	301066	9.45	ppb	#	98
42) Trichloroethylene	6.165	95	101413	9.79	ppb		81
43) Methyl Cyclohexane	6.295	83	145165	10.00	ppb	#	75
44) Methyl Methacrylate	6.479	69	49083	10.27	ppb	#	76
45) Dibromomethane	6.557	93	51127	9.43	ppb		98
46) Bromodichloromethane	6.696	83	124122	10.15	ppb		95
47) 1,2-Dichloropropane	6.412	63	84386	9.42	ppb		97
48) 1,4-Dioxane	6.549	88	2885	138.05	ppb		87
49) 2-Nitropropane	6.955	43	30125	10.51	ppb	#	82
50) 2-Chloroethyl vinyl ether	6.958	63	30601	12.56	ppb		98
51) cis-1,3-Dichloropropene	7.113	75	143434	9.88	ppb		87
52) 4-Methyl-2-Pentanone	7.247	43	56665	9.54	ppb		94

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736093.D
Acq On : 18 Oct 2019 9:15 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-SCV1
Misc : QBV7101819A
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 21 11:10:20 2019
Quant Method : C:\msdchem\1\methods\V7LO0136.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Oct 21 11:04:26 2019
Response via : Initial Calibration

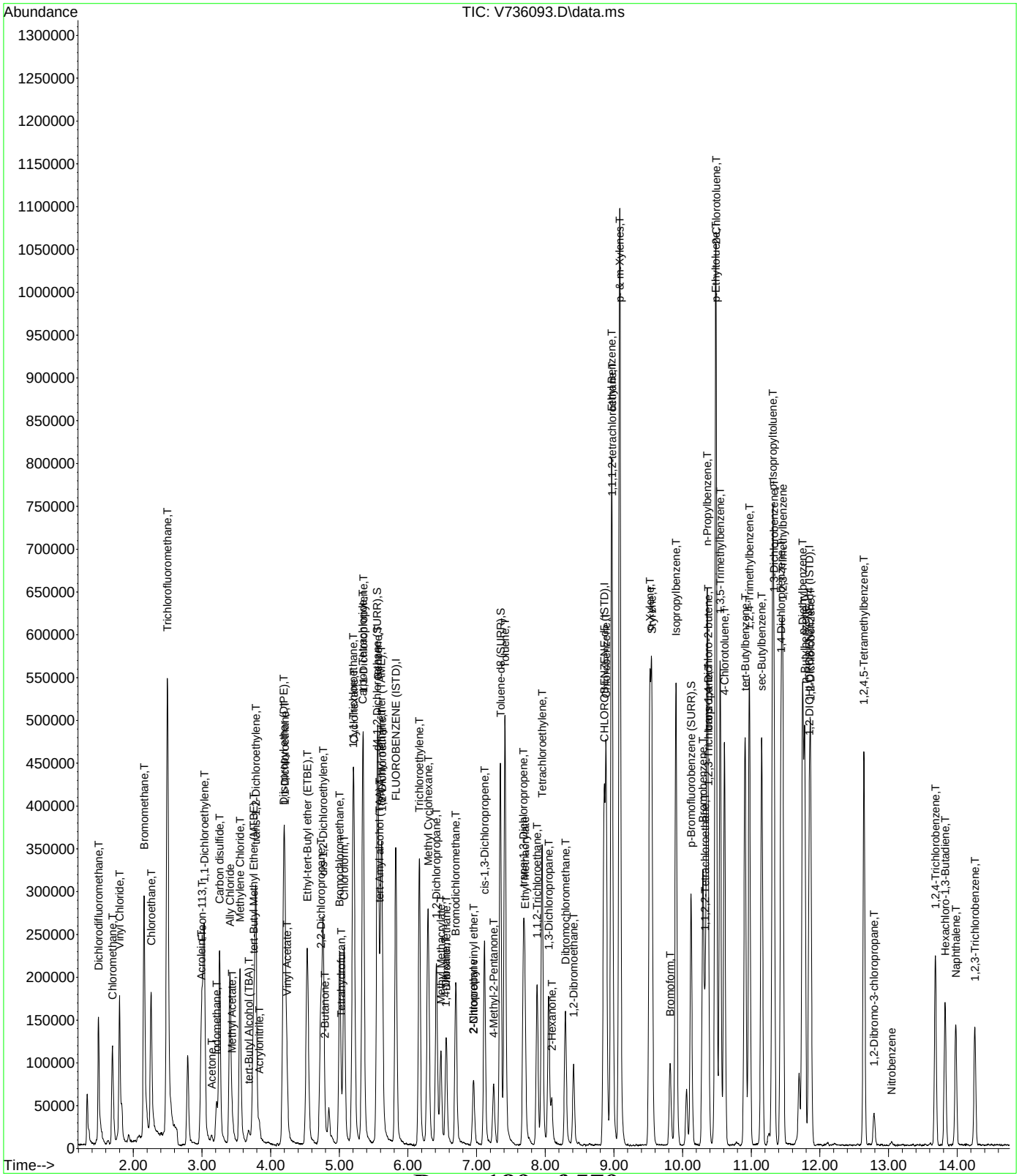
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
54) Toluene	7.414	91	430291	9.75 ppb		99
55) Ethyl Methacrylate	7.703	69	102661	10.09 ppb	#	27
56) trans-1,3-Dichloropropene	7.681	75	120050	9.65 ppb		99
57) 1,1,2-Trichloroethane	7.881	97	62680	9.75 ppb		90
58) 1,3-Dichloropropane	8.051	76	108389	9.70 ppb	#	100
59) Tetrachloroethylene	7.954	166	100310	8.55 ppb	#	100
60) 2-Hexanone	8.096	43	40322	10.00 ppb		86
61) Dibromochloromethane	8.293	129	92556	9.83 ppb	#	93
62) 1,2-Dibromoethane	8.413	107	62496	9.59 ppb		96
63) Chlorobenzene	8.886	112	279809	9.38 ppb	#	88
64) 1,1,1,2-tetrachloroethane	8.975	131	107764	9.59 ppb		99
65) Ethyl Benzene	8.966	91	469025	9.77 ppb		95
66) p- & m-Xylenes	9.083	91	722832	17.55 ppb		94
67) o-Xylene	9.523	91	351784	9.85 ppb		98
68) Styrene	9.551	104	298452	9.82 ppb	#	100
69) Bromoform	9.818	173	44591	9.83 ppb	#	100
71) p-Ethyltoluene	10.483	105	468370	11.06 ppb	#	87
72) Isopropylbenzene	9.904	105	450238	9.72 ppb		97
74) 1,1,2,2-Tetrachloroethane	10.330	83	80373	10.00 ppb	#	99
75) Bromobenzene	10.296	77	135457	9.80 ppb		77
76) trans-1,4-Dichloro-2-b...	10.374	75	76587	9.86 ppb	#	84
77) 1,2,3-Trichloropropane	10.377	110	23170	9.75 ppb		81
78) n-Propylbenzene	10.358	91	520334	9.57 ppb		96
79) 2-Chlorotoluene	10.488	91	332209	10.33 ppb		96
80) 4-Chlorotoluene	10.611	91	285374	9.75 ppb		95
81) 1,3,5-Trimethylbenzene	10.547	105	358363	10.02 ppb		97
82) tert-Butylbenzene	10.911	119	305239	9.48 ppb		90
83) 1,2,4-Trimethylbenzene	10.972	105	346857	9.36 ppb		96
84) sec-Butylbenzene	11.153	105	427101	10.48 ppb		96
85) 1,3-Dichlorobenzene	11.331	146	211405	9.99 ppb		94
86) p-Isopropyltoluene	11.312	119	398635	10.55 ppb		95
87) 1,4-Dichlorobenzene	11.434	146	204292	9.13 ppb		94
88) 1,2,3-Trimethylbenzene	11.459	105	354784	10.36 ppb		95
89) p-Diethylbenzene	11.749	105	196924	11.39 ppb		89
90) 1,2-Dichlorobenzene	11.866	146	178401	9.77 ppb	#	68
91) n-Butylbenzene	11.779	91	306533m	10.13 ppb		
93) 1,2-Dibromo-3-chloropr...	12.789	75	9047	10.42 ppb	#	66
94) 1,2,4,5-Tetramethylben...	12.642	119	289371	9.99 ppb		95
95) Nitrobenzene	13.045	77	1934	9.91 ppb	#	79
96) 1,2,4-Trichlorobenzene	13.682	180	73270	10.19 ppb		96
97) Hexachloro-1,3-Butadiene	13.824	225	28474	10.19 ppb	#	93
98) Naphthalene	13.980	128	135234	10.55 ppb		98
99) 1,2,3-Trichlorobenzene	14.258	180	45265	10.30 ppb		94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7101819\
Data File : V736093.D
Acq On : 18 Oct 2019 9:15 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-SCV1
Misc : QBV7101819A
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 21 11:10:20 2019
Quant Method : C:\msdchem\1\methods\V7LO0136.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Oct 21 11:04:26 2019
Response via : Initial Calibration



FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00 TASK 0600 Katonah Municipal Well
Instrument ID:	MSVOA7	Calibration:	YJ90021
Lab File ID:	V737505.D	Calibration Date:	10/21/19 11:52
Sequence:	Y9L2401	Injection Date:	12/22/19
Lab Sample ID:	Y9L2401-CCV1	Injection Time:	14:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1-Trichloroethane	A	10.0	11.5	2.679856	2.750908	0.1	2.7	20
1,1,2,2-Tetrachloroethane	A	10.0	10.6	0.8594588	0.8123332	0.3	-5.5	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.7	1.454361	1.451978	0.1	-0.2	20
1,1,2-Trichloroethane	A	10.0	10.6	0.2413642	0.2413882	0.1	0.01	20
1,1-Dichloroethane	A	10.0	11.0	2.818728	2.662694	0.2	-5.5	20
1,1-Dichloroethylene	A	10.0	10.9	2.051081	1.958256	0.1	-4.5	20
1,2,3-Trichlorobenzene	A	10.0	7.62	0.470124	0.2985144		-36.5	20 *
1,2,4-Trichlorobenzene	A	10.0	9.07	0.7690875	0.5948342	0.2	-22.7	20 *
1,2-Dibromo-3-chloropropane	A	10.0	10.3	0.0928339	8.920705E-02	0.05	-3.9	20
1,2-Dibromoethane	A	10.0	10.6	0.244612	0.2450854	0.1	0.2	20
1,2-Dichlorobenzene	A	10.0	10.7	1.952553	2.020636	0.4	3.5	20
1,2-Dichloroethane	L	10.0	10.7	1.601541	1.569421	0.1	6.8	20
1,2-Dichloropropane	A	10.0	10.6	0.3363601	0.3039426	0.1	-9.6	20
1,3-Dichlorobenzene	Q	10.0	10.9	2.506043	2.469557	0.6	8.8	20
1,4-Dichlorobenzene	A	10.0	10.6	2.39478	2.391677	0.5	-0.1	20
2-Butanone	L	10.0	4.78	0.1329692	5.777919E-02	0.1	-52.2	20 *
2-Hexanone	A	10.0	11.0	0.1452217	0.1318625	0.1	-9.2	20
4-Methyl-2-pentanone	A	10.0	11.3	0.2117302	0.1897098	0.1	-10.4	20
Acetone	L	10.0	9.08	0.1937703	0.1787843	0.1	-9.2	20
Benzene	A	10.0	11.2	6.739123	6.399285	0.5	-5.0	20
Bromochloromethane	A	10.0	10.9	1.021174	0.9466003		-7.3	20
Bromodichloromethane	A	10.0	10.8	0.4590053	0.4410232	0.2	-3.9	20
Bromoform	A	10.0	10.2	0.1703162	0.15875	0.1	-6.8	20
Bromomethane	A	10.0	11.3	2.674386	0.8544363	0.1	-68.1	20 *
Carbon disulfide	A	10.0	10.7	4.919411	4.241691	0.1	-13.8	20
Carbon tetrachloride	Q	10.0	11.4	2.69629	2.743992	0.1	14.1	20
Chlorobenzene	A	10.0	10.6	1.120086	1.119832	0.5	-0.02	20
Chloroethane	A	10.0	12.2	2.366767	2.041633	0.1	-13.7	20
Chloroform	A	10.0	11.0	2.824597	2.85445	0.2	1.1	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.	SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)	Project:	41433.00 TASK 0600 Katonah Municipal Well
Instrument ID:	MSVOA7	Calibration:	YJ90021
Lab File ID:	V737505.D	Calibration Date:	10/21/19 11:52
Sequence:	Y9L2401	Injection Date:	12/22/19
Lab Sample ID:	Y9L2401-CCV1	Injection Time:	14:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Chloromethane	A	10.0	15.3	1.982505	1.696094	0.1	-14.4	20
cis-1,2-Dichloroethylene	A	10.0	11.3	2.212635	2.204618	0.1	-0.4	20
cis-1,3-Dichloropropylene	A	10.0	11.6	0.5451893	0.5375377	0.2	-1.4	20
Cyclohexane	A	10.0	10.8	2.219246	1.956842	0.1	-11.8	20
Dibromochloromethane	A	10.0	11.6	0.3535423	0.3413578	0.1	-3.4	20
Dichlorodifluoromethane	A	10.0	15.6	1.54934	1.801009	0.1	16.2	20
Ethyl Benzene	A	10.0	11.0	1.802021	1.851922	0.1	2.8	20
Isopropylbenzene	A	10.0	11.0	4.955883	5.138107	0.1	3.7	20
Methyl acetate	A	10.0	11.1	0.6278854	0.5399008	0.1	-14.0	20
Methyl tert-butyl ether (MTBE)	A	10.0	11.1	3.889604	3.756576	0.1	-3.4	20
Methylcyclohexane	A	10.0	10.8	0.5453761	0.5303736	0.1	-2.8	20
Methylene chloride	A	10.0	10.7	1.620913	1.481914	0.1	-8.6	20
o-Xylene	A	10.0	11.2	1.341672	1.411578	0.3	5.2	20
p- & m- Xylenes	L	20.0	22.3	1.415663	1.475209	0.1	11.5	20
Styrene	A	10.0	11.1	1.14107	1.191948	0.3	4.5	20
Tetrachloroethylene	A	10.0	9.28	0.4407747	0.4041809	0.2	-8.3	20
Toluene	A	10.0	10.8	1.657781	1.602339	0.4	-3.3	20
trans-1,2-Dichloroethylene	A	10.0	11.0	1.92827	1.83969	0.1	-4.6	20
trans-1,3-Dichloropropylene	A	10.0	11.5	0.4669719	0.4546751	0.1	-2.6	20
Trichloroethylene	A	10.0	10.4	0.3889891	0.3724445	0.2	-4.3	20
Trichlorofluoromethane	A	10.0	12.1	8.13191	7.631455	0.1	-6.2	20
Vinyl Chloride	A	10.0	13.3	2.681952	2.546193	0.1	-5.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737505.D
Acq On : 22 Dec 2019 2:33 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CCV1
Misc : QBV7122219A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:48:39 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.825	70	72154	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	338633	10.00	ppb		# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	124396	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	82181	9.91	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.10%				
53) Toluene-d8 (SURR)	7.344	98	426530	9.78	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.80%				
73) p-Bromofluorobenzene (...	10.121	95	132453	10.59	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	129950	15.61	ppb		96
3) Chloromethane	1.702	50	122380	15.33	ppb		99
4) Vinyl Chloride	1.799	62	183718	13.32	ppb		100
5) Bromomethane	2.156	94	61651	11.30	ppb		99
6) Chloroethane	2.259	64	147312	12.22	ppb		99
7) Trichlorofluoromethane	2.498	101	550640	12.09	ppb		99
8) Ethanol	2.770	45	12686	446.33	ppb	#	52
9) Freon-113	2.999	101	104766	10.72	ppb		96
10) 1,1-Dichloroethylene	3.032	61	141296	10.88	ppb	#	73
11) Acrolein	2.982	56	7242	7.96	ppb		91
12) Acetone	3.143	43	12900	9.08	ppb	#	100
13) Iodomethane	3.210	142	35774	15.43	ppb		97
14) Ally Chloride	3.408	41	135593	11.38	ppb	#	77
15) Methyl Acetate	3.435	43	38956	11.13	ppb	#	96
16) Carbon disulfide	3.257	76	306055	10.72	ppb		100
17) tert-Butyl Alcohol (TBA)	3.677	59	30672	51.92	ppb	#	100
18) Methylene Chloride	3.552	49	106926	10.74	ppb	#	63
19) Acrylonitrile	3.830	53	14376	10.67	ppb	#	78
20) trans-1,2-Dichloroethy...	3.783	61	132741	11.00	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.753	73	271052	11.11	ppb		94
22) 1,1-Dichloroethane	4.206	63	192124	11.03	ppb		98
23) Vinyl Acetate	4.237	43	115685	8.89	ppb	#	100
24) Diisopropyl ether (DIPE)	4.189	45	281693	11.24	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.532	59	266989	11.23	ppb	#	85
26) cis-1,2-Dichloroethylene	4.763	61	159072	11.30	ppb	#	65
27) 2-Butanone	4.776	72	4169	4.78	ppb	#	100
28) 2,2-Dichloropropane	4.732	77	181327	12.33	ppb	#	86
29) Tetrahydrofuran	5.027	71	9045	10.77	ppb	#	50
30) Bromochloromethane	5.005	49	68301	10.89	ppb	#	59
31) Chloroform	5.069	83	205960	10.95	ppb	#	99
32) 1,1,1-Trichloroethane	5.197	97	198489	11.46	ppb	#	99
33) Cyclohexane	5.208	56	141194	10.82	ppb	#	68
34) 1,1-Dichloropropylene	5.350	75	166639	10.92	ppb		80
36) Carbon Tetrachloride	5.341	117	197990	11.41	ppb		99
37) tert-Amyl alcohol (TAA)	5.583	59	67383	111.06	ppb	#	1
38) 1,2-Dichloroethane	5.619	62	113240	10.68	ppb		98
39) Benzene	5.558	78	461734	11.18	ppb	#	69
40) tert-Amyl methyl ether...	5.611	73	361421	11.77	ppb	#	90
42) Trichloroethylene	6.162	95	126122	10.42	ppb		81
43) Methyl Cyclohexane	6.290	83	179602	10.76	ppb	#	71
44) Methyl Methacrylate	6.476	69	59376	11.13	ppb	#	26
45) Dibromomethane	6.557	93	64031	10.31	ppb	#	67
46) Bromodichloromethane	6.696	83	149345	10.84	ppb		94
47) 1,2-Dichloropropane	6.410	63	102925	10.56	ppb		95
48) 1,4-Dioxane	6.613	88	419	11.31	ppb		97
49) 2-Nitropropane	6.947	43	27670	10.93	ppb	#	63
50) 2-Chloroethyl vinyl ether	6.955	63	18630	8.33	ppb		97
51) cis-1,3-Dichloropropene	7.111	75	182028	11.58	ppb		88

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737505.D
Acq On : 22 Dec 2019 2:33 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CCV1
Misc : QBV7122219A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:48:39 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

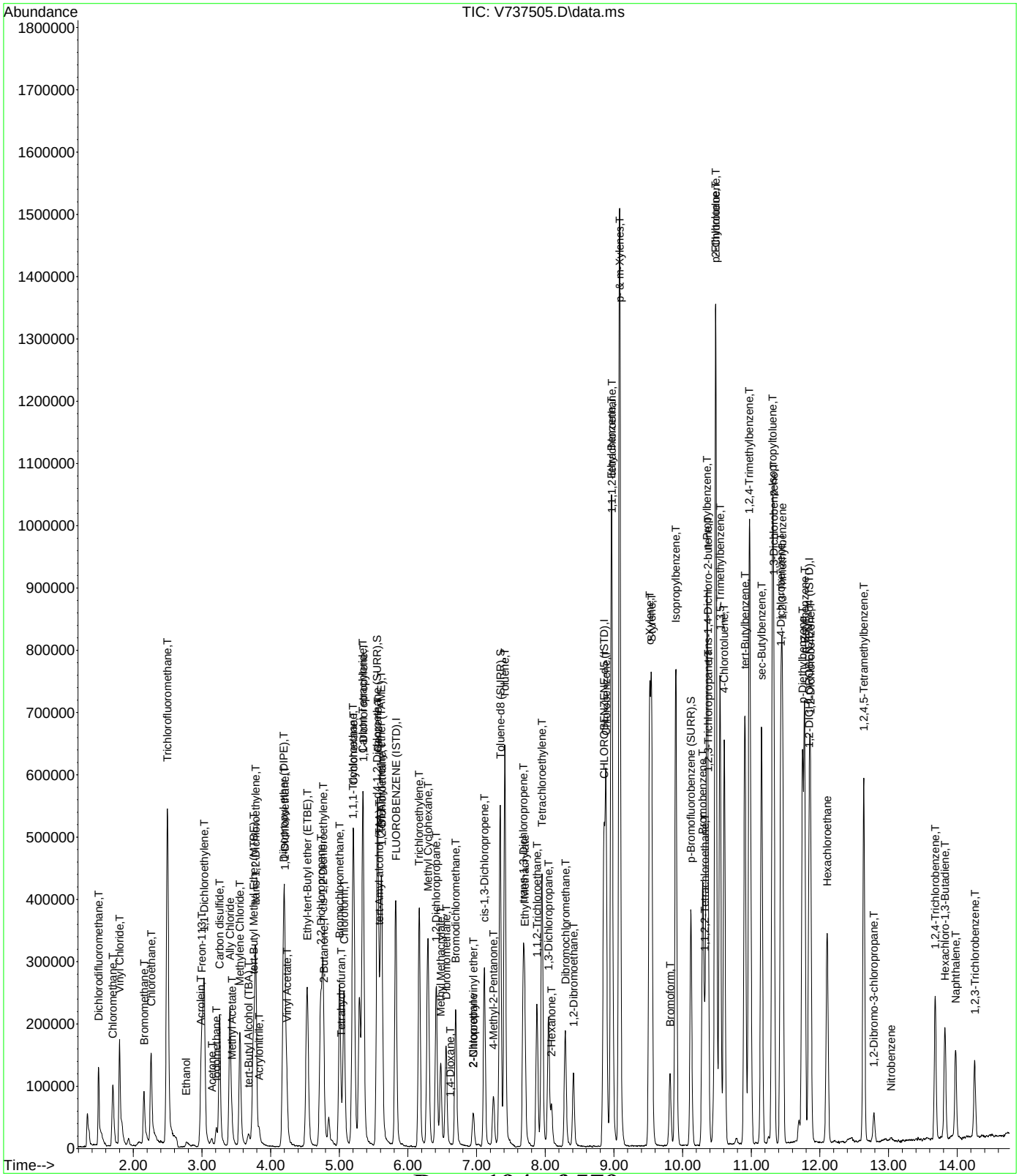
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.244	43	64242	11.28	ppb	#	90
54) Toluene	7.411	91	542605	10.85	ppb		99
55) Ethyl Methacrylate	7.701	69	123837	11.27	ppb	#	24
56) trans-1,3-Dichloropropene	7.681	75	153968	11.46	ppb	#	92
57) 1,1,2-Trichloroethane	7.879	97	81742	10.62	ppb		94
58) 1,3-Dichloropropane	8.048	76	144426	11.14	ppb	#	99
59) Tetrachloroethylene	7.951	166	136869	9.28	ppb	#	100
60) 2-Hexanone	8.090	43	44653	10.96	ppb		97
61) Dibromochloromethane	8.293	129	115595	11.62	ppb	#	95
62) 1,2-Dibromoethane	8.413	107	82994	10.59	ppb		100
63) Chlorobenzene	8.886	112	379212	10.65	ppb	#	88
64) 1,1,1,2-tetrachloroethane	8.972	131	148258	11.13	ppb		98
65) Ethyl Benzene	8.961	91	627122	10.98	ppb		97
66) p- & m-Xylenes	9.083	91	999109	22.30	ppb		95
67) o-Xylene	9.520	91	478007	11.20	ppb		98
68) Styrene	9.548	104	403633	11.13	ppb	#	100
69) Bromoform	9.818	173	53758	10.21	ppb	#	100
71) p-Ethyltoluene	10.480	105	601660	10.87	ppb	#	87
72) Isopropylbenzene	9.901	105	639160	11.01	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.324	83	101051	10.64	ppb	#	99
75) Bromobenzene	10.294	77	194195	11.24	ppb		81
76) trans-1,4-Dichloro-2-b...	10.369	75	107138	11.38	ppb	#	85
77) 1,2,3-Trichloropropane	10.374	110	32386	11.09	ppb		84
78) n-Propylbenzene	10.355	91	739735	11.24	ppb		97
79) 2-Chlorotoluene	10.483	91	479384	11.06	ppb		97
80) 4-Chlorotoluene	10.605	91	420608	11.28	ppb		96
81) 1,3,5-Trimethylbenzene	10.547	105	501485	11.04	ppb		97
82) tert-Butylbenzene	10.908	119	458118	11.32	ppb		89
83) 1,2,4-Trimethylbenzene	10.970	105	511071	11.05	ppb		97
84) sec-Butylbenzene	11.151	105	581474	11.44	ppb		96
85) 1,3-Dichlorobenzene	11.329	146	307203	10.88	ppb		95
86) p-Isopropyltoluene	11.309	119	562953	11.05	ppb		96
87) 1,4-Dichlorobenzene	11.432	146	297515	10.64	ppb		95
88) 1,2,3-Trimethylbenzene	11.454	105	458790	10.61	ppb		96
89) p-Diethylbenzene	11.746	105	242929	11.30	ppb		97
90) 1,2-Dichlorobenzene	11.863	146	251359	10.73	ppb	#	68
91) n-Butylbenzene	11.777	91	516775	14.96	ppb		97
92) Hexachloroethane	12.105	117	91220	10.85	ppb	#	88
93) 1,2-Dibromo-3-chloropr...	12.784	75	11097	10.30	ppb	#	84
94) 1,2,4,5-Tetramethylben...	12.639	119	376682	10.88	ppb		96
95) Nitrobenzene	13.034	77	1039	5.95	ppb		93
96) 1,2,4-Trichlorobenzene	13.680	180	73995	9.07	ppb		98
97) Hexachloro-1,3-Butadiene	13.821	225	34091	10.33	ppb		94
98) Naphthalene	13.977	128	134200	8.91	ppb		97
99) 1,2,3-Trichlorobenzene	14.256	180	37134	7.62	ppb		96

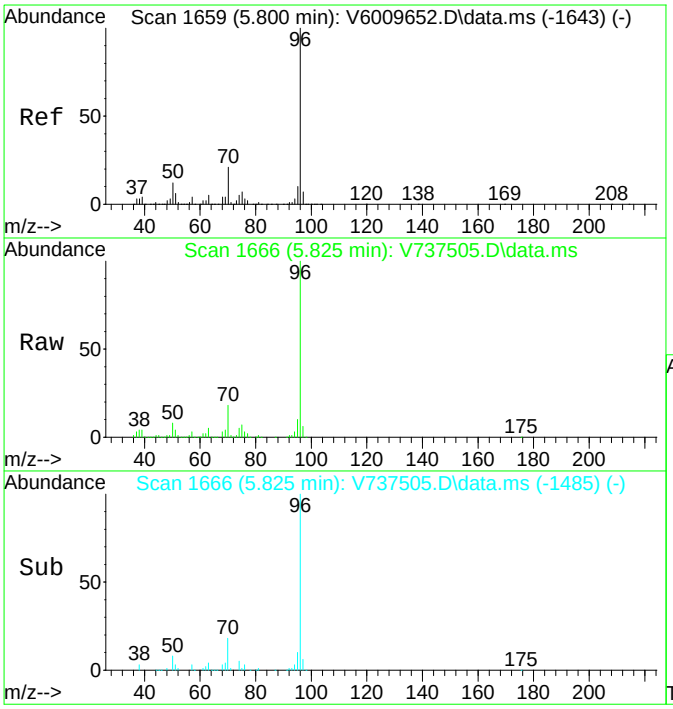
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737505.D
Acq On : 22 Dec 2019 2:33 pm
InstName : MSVOA7
Operator : SS
Sample : SEQ-CCV1
Misc : QBV7122219A
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 14:48:39 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

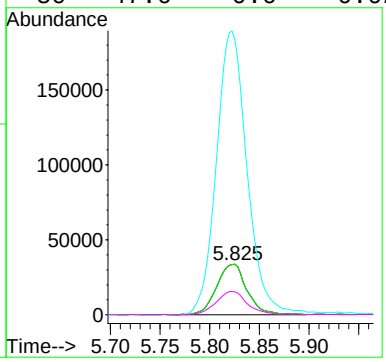


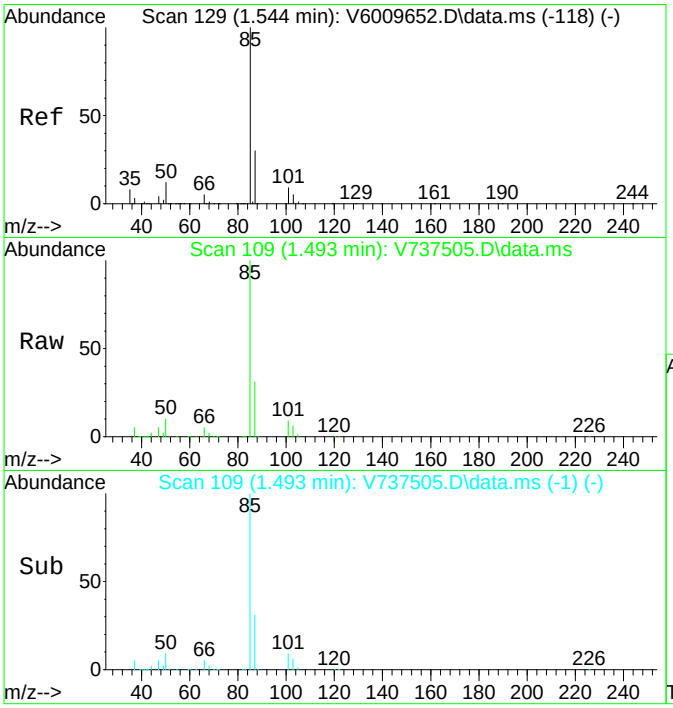


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.825 min Scan# 1666
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 70 Resp: 72154

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	568.1	323.6	672.2
50	47.6	0.0	0.0#

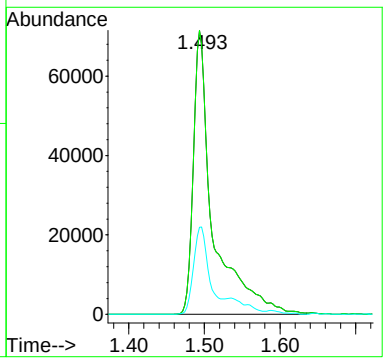


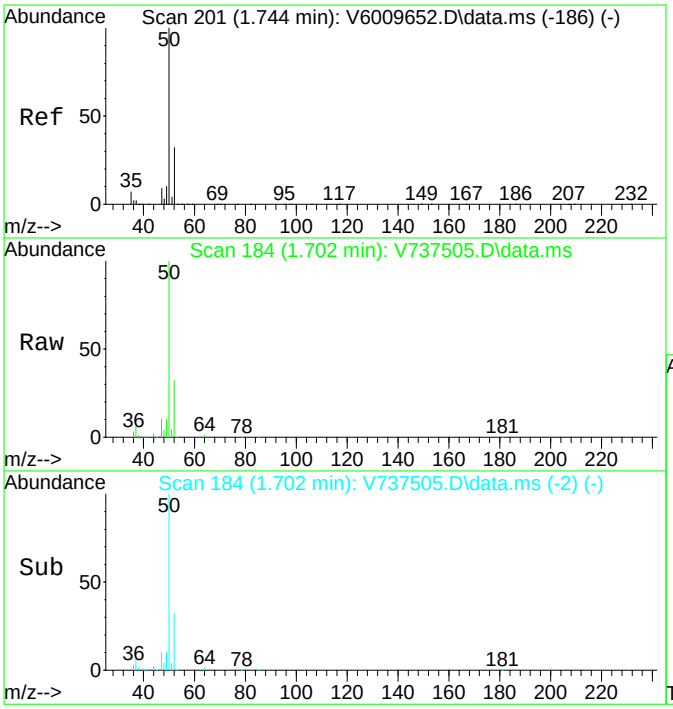


#2
Dichlorodifluoromethane
Concen: 15.61 ppb
RT: 1.493 min Scan# 109
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 85 Resp: 129950

Ion	Ratio	Lower	Upper
85	100		
85	100.0	65.0	135.0
87	24.2	21.1	43.9

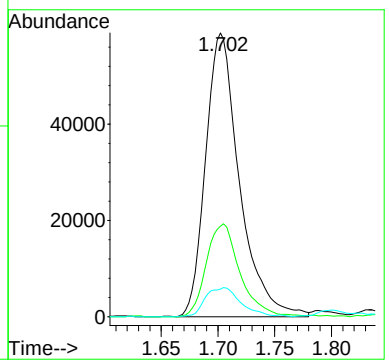


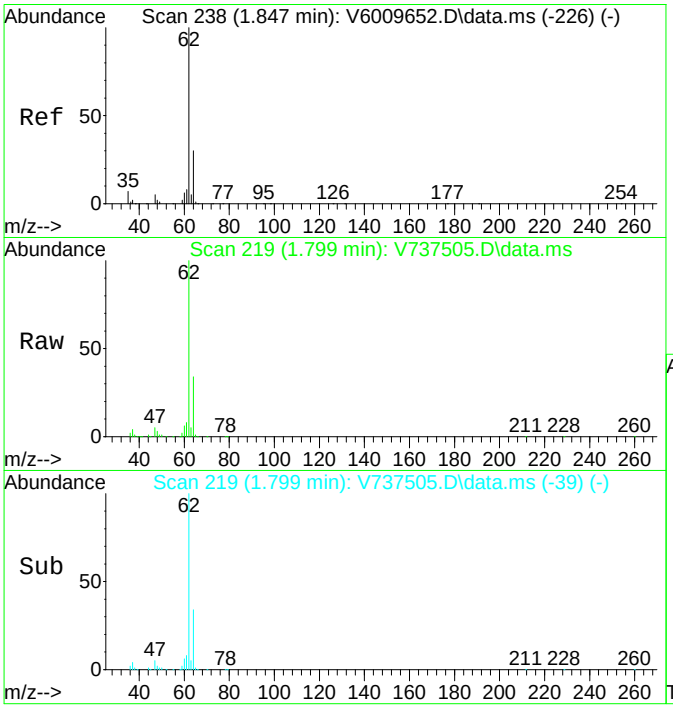


#3
Chloromethane
Concen: 15.33 ppb
RT: 1.702 min Scan# 184
Delta R.T. 0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 50 Resp: 122380

Ion	Ratio	Lower	Upper
50	100		
52	32.7	20.9	43.5
49	10.8	6.6	13.6

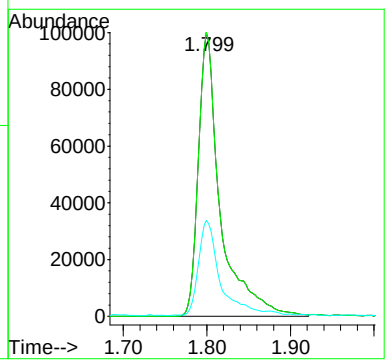


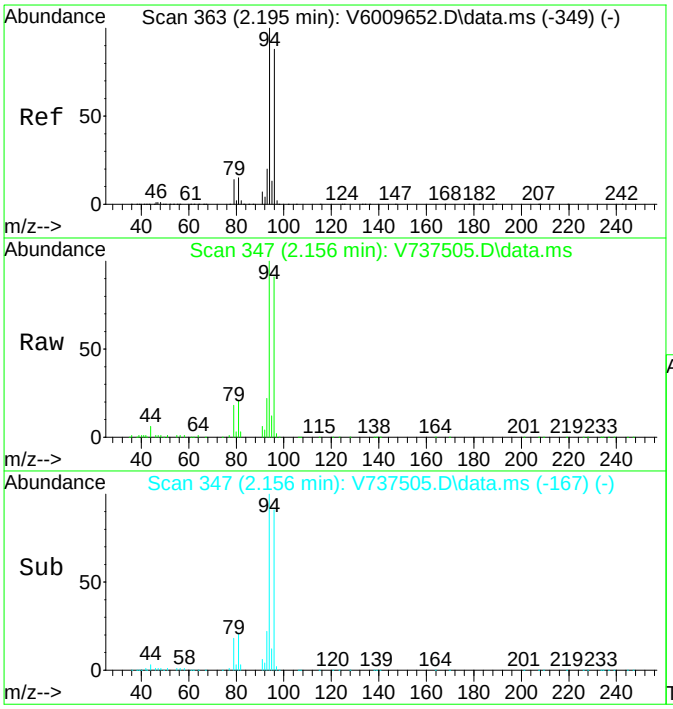


#4
Vinyl Chloride
Concen: 13.32 ppb
RT: 1.799 min Scan# 219
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 62 Resp: 183718

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	31.9	20.2	42.0

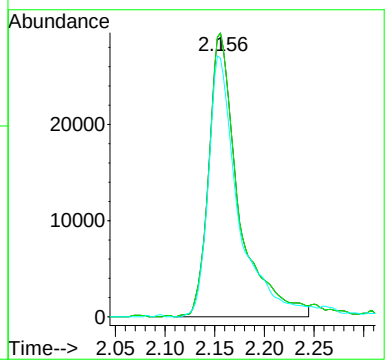


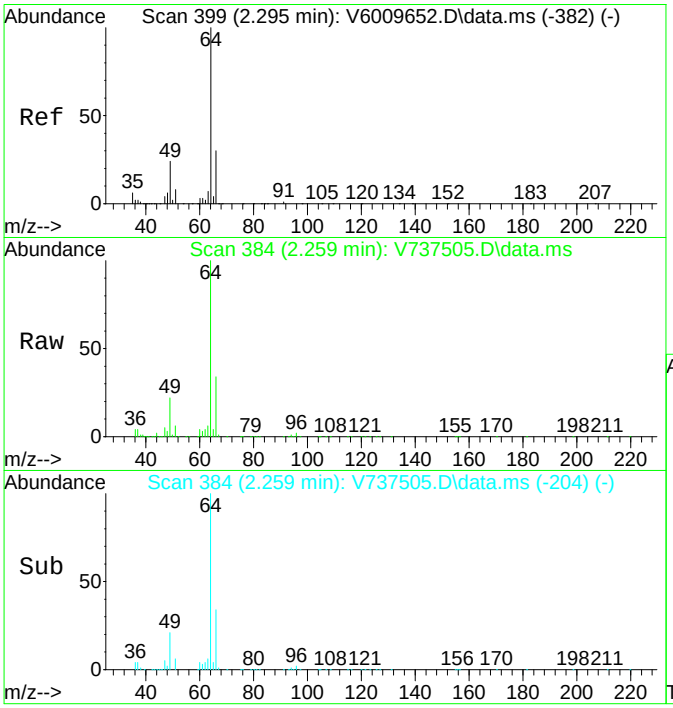


#5
Bromomethane
Concen: 11.30 ppb
RT: 2.156 min Scan# 347
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 94 Resp: 61651

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	92.8	45.9	137.6

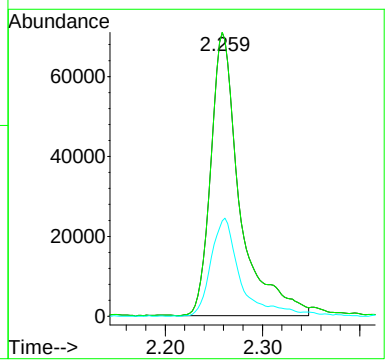


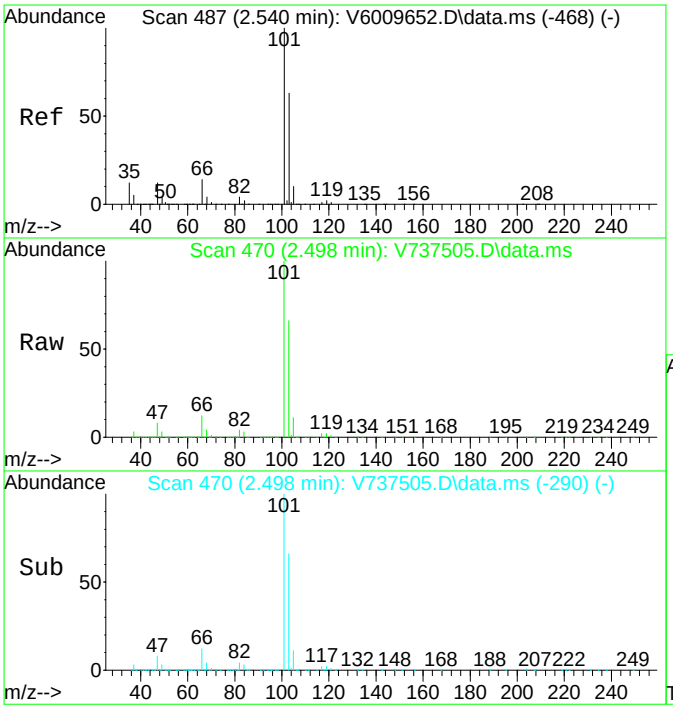


#6
Chloroethane
Concen: 12.22 ppb
RT: 2.259 min Scan# 384
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 64 Resp: 147312

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	35.1	20.6	42.8

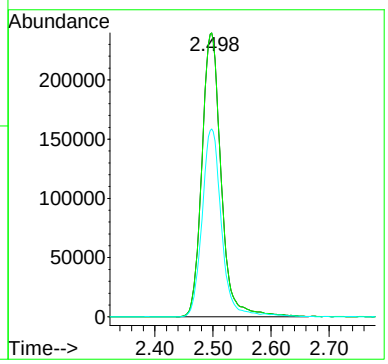


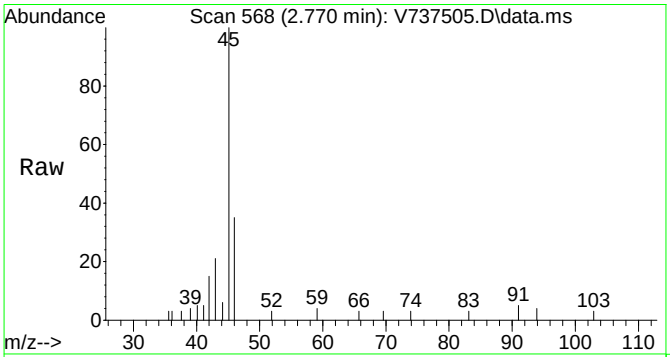


#7
Trichlorofluoromethane
Concen: 12.09 ppb
RT: 2.498 min Scan# 470
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:101 Resp: 550640

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	65.8	41.9	87.1

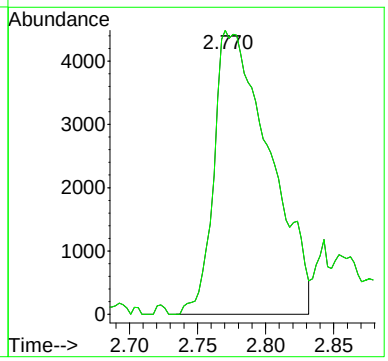


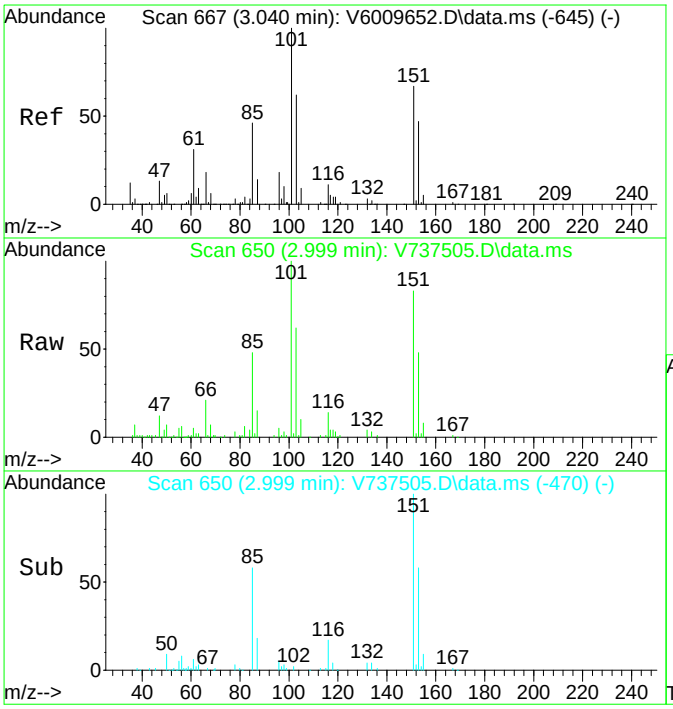


#8
Ethanol
Concen: 446.33 ppb
RT: 2.770 min Scan# 568
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 45 Resp: 12686

Ion	Ratio	Lower	Upper
45	100		
45	100.0	31.3	93.9#

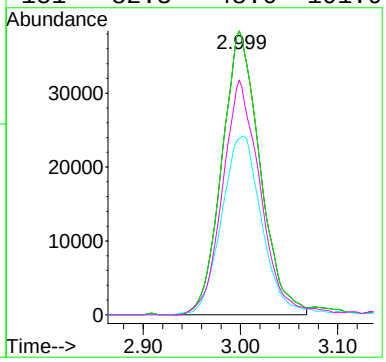


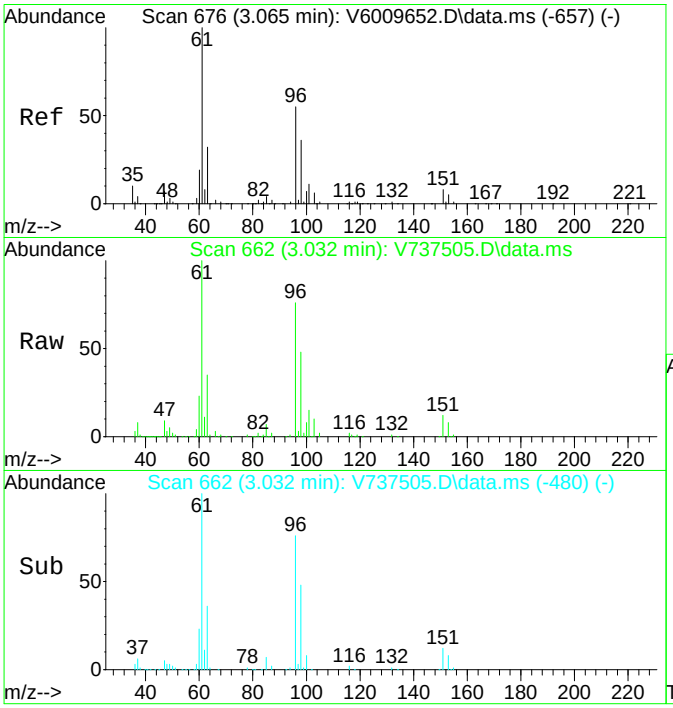


#9
Freon-113
Concen: 10.72 ppb
RT: 2.999 min Scan# 650
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:101 Resp: 104766

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.0	40.9	84.9
151	82.3	48.6	101.0

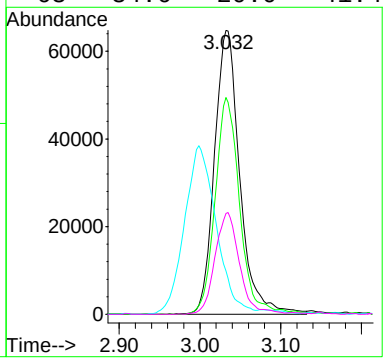


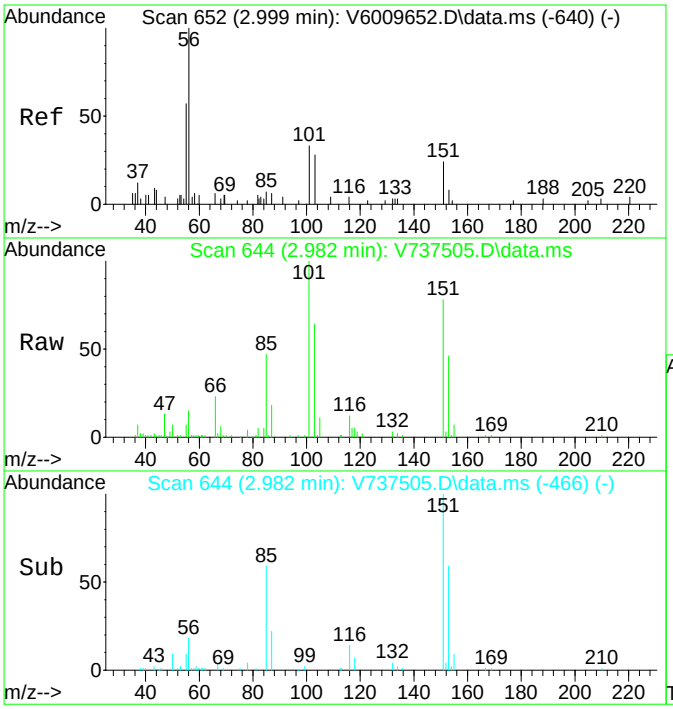


#10
1,1-Dichloroethylene
Concen: 10.88 ppb
RT: 3.032 min Scan# 662
Delta R.T. 0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 61 Resp: 141296

Ion	Ratio	Lower	Upper
61	100		
96	73.3	33.9	70.3#
101	74.1	32.0	66.4#
63	34.6	20.0	41.4

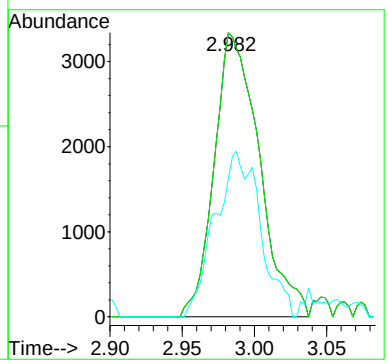


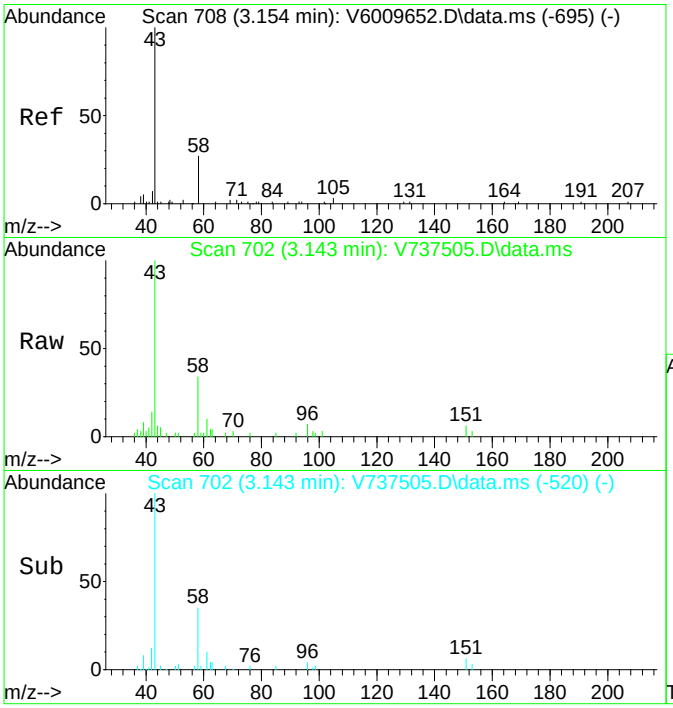


#11
Acrolein
Concen: 7.96 ppb
RT: 2.982 min Scan# 644
Delta R.T. -0.005 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 56 Resp: 7242

Ion	Ratio	Lower	Upper
56	100		
56	100.0	74.8	112.2
55	58.7	34.3	102.9

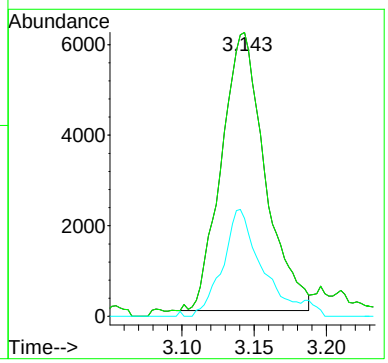


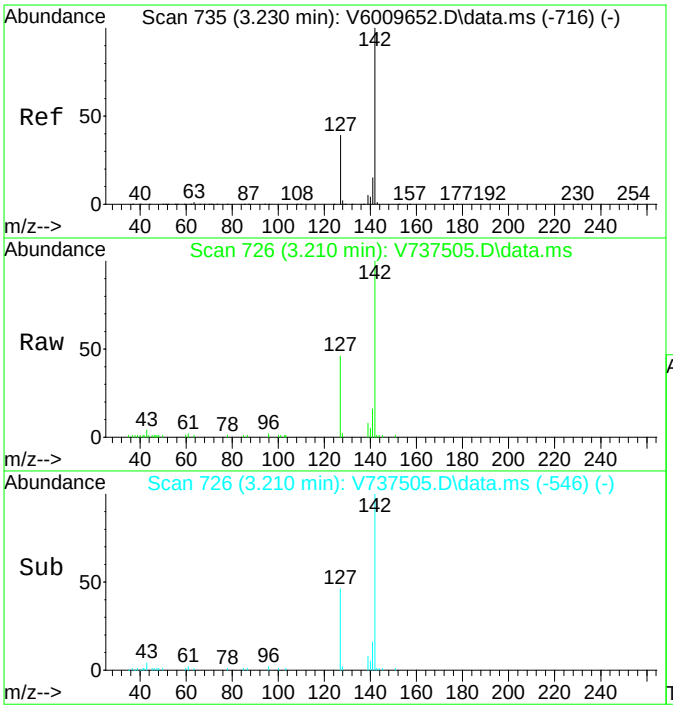


#12
Acetone
Concen: 9.08 ppb
RT: 3.143 min Scan# 702
Delta R.T. 0.005 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 43 Resp: 12900

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	34.0	0.0	0.0#

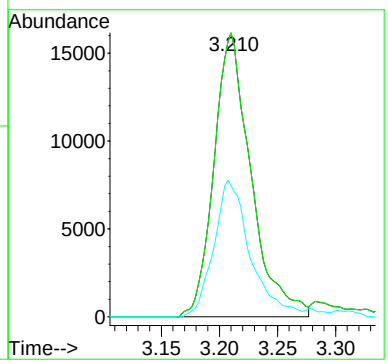


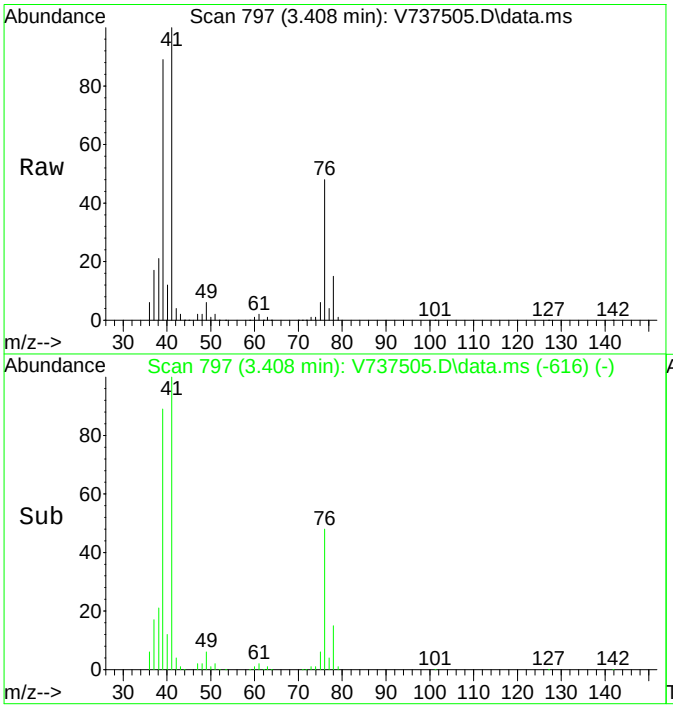


#13
Iodomethane
Concen: 15.43 ppb
RT: 3.210 min Scan# 726
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:142 Resp: 35774

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	47.3	20.9	62.8

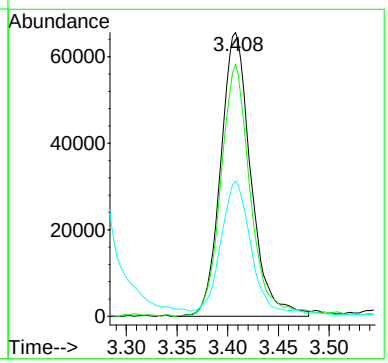


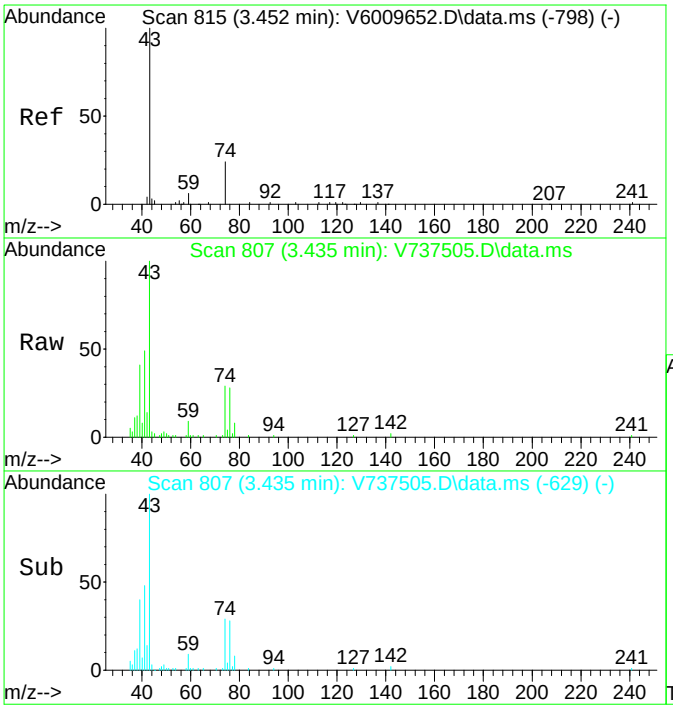


#14
Ally Chloride
Concen: 11.38 ppb
RT: 3.408 min Scan# 797
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 41 Resp: 135593

Ion	Ratio	Lower	Upper
41	100		
39	86.0	54.5	81.7#
76	43.9	24.3	36.5#

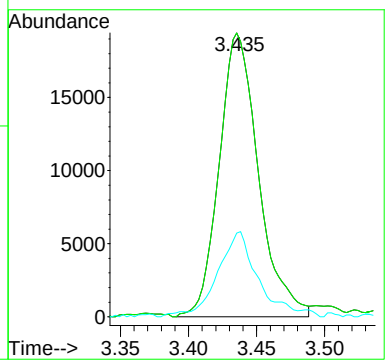


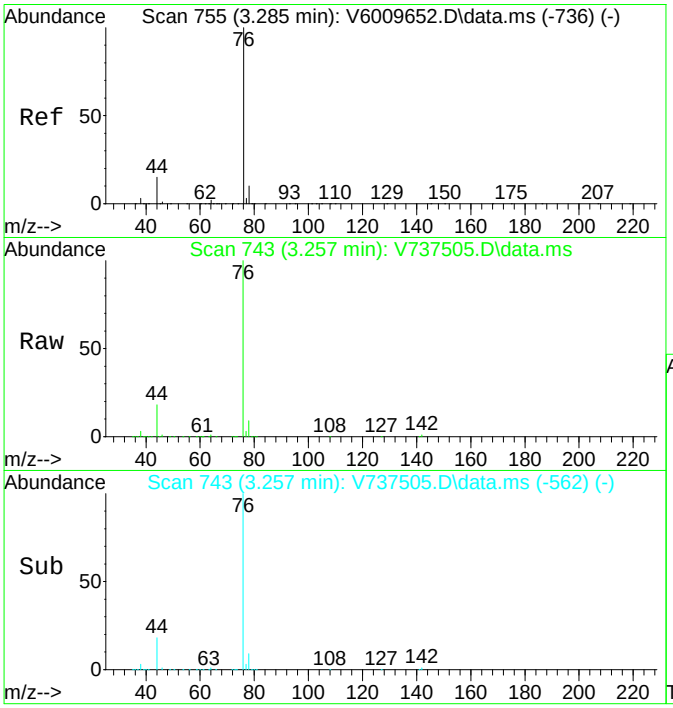


#15
Methyl Acetate
Concen: 11.13 ppb
RT: 3.435 min Scan# 807
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 43 Resp: 38956

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	30.2	8.5	25.5#

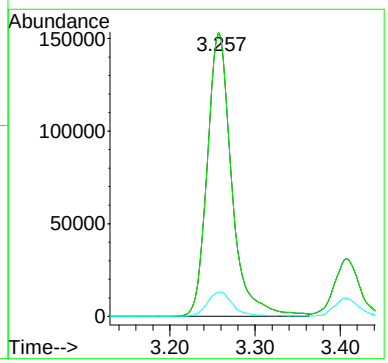


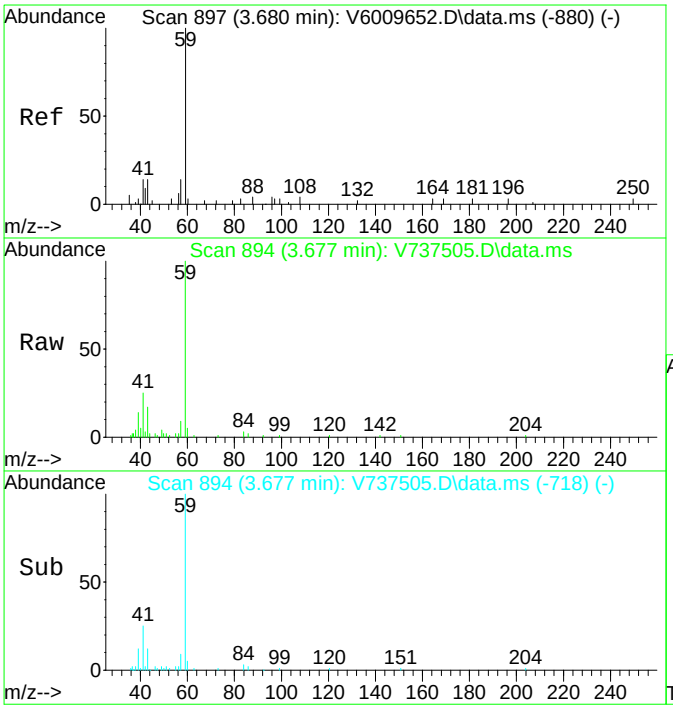


#16
Carbon disulfide
Concen: 10.72 ppb
RT: 3.257 min Scan# 743
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 76 Resp: 306055

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	9.0	4.5	13.5

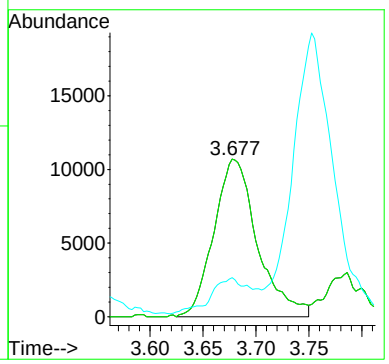


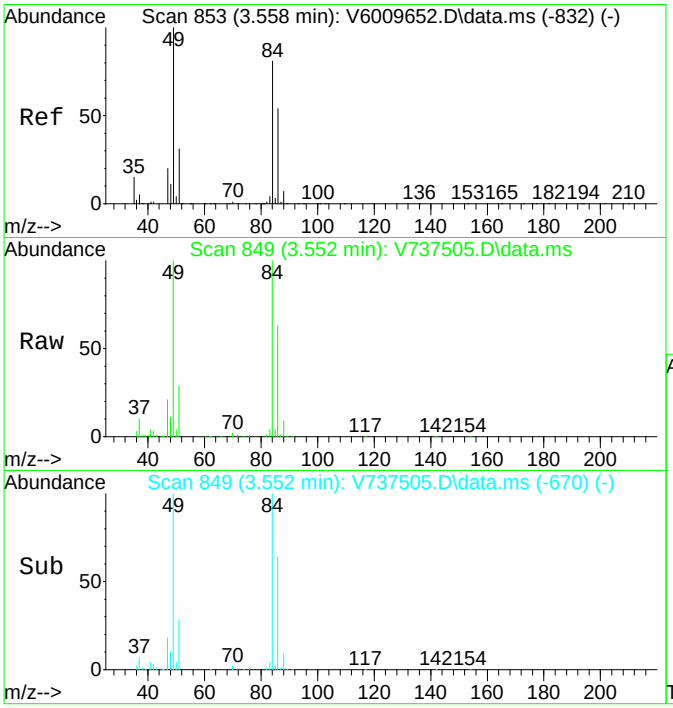


#17
tert-Butyl Alcohol (TBA)
Concen: 51.92 ppb
RT: 3.677 min Scan# 894
Delta R.T. -0.012 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 59 Resp: 30672

Ion	Ratio	Lower	Upper
59	100		
59	100.0	65.0	135.0
41	0.0	0.0	0.0

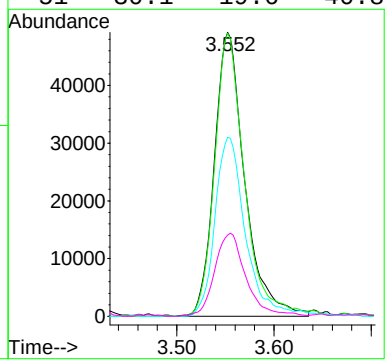


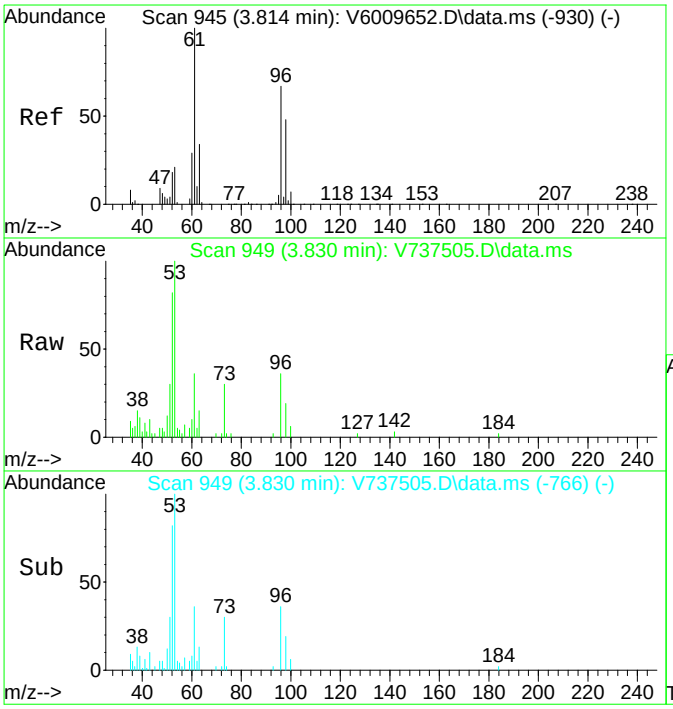


#18
Methylene Chloride
Concen: 10.74 ppb
RT: 3.552 min Scan# 849
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 49 Resp: 106926

Ion	Ratio	Lower	Upper
49	100		
84	97.5	38.0	78.8#
86	62.4	24.0	49.8#
51	30.1	19.6	40.8

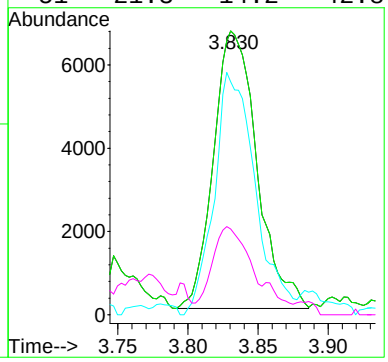


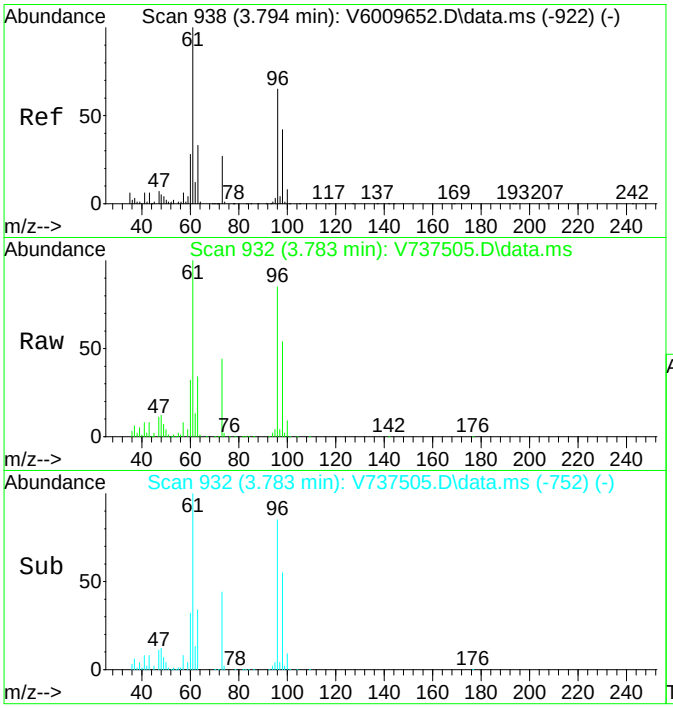


#19
Acrylonitrile
Concen: 10.67 ppb
RT: 3.830 min Scan# 949
Delta R.T. 0.008 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 53 Resp: 14376

Ion	Ratio	Lower	Upper
53	100		
53	100.0	62.2	93.4#
52	82.4	0.0	0.0#
51	21.3	14.2	42.8

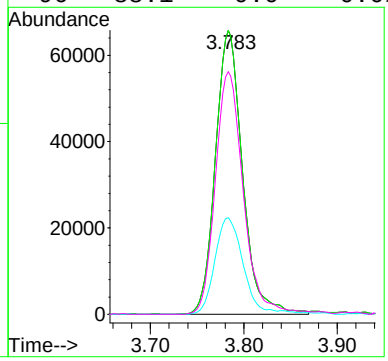


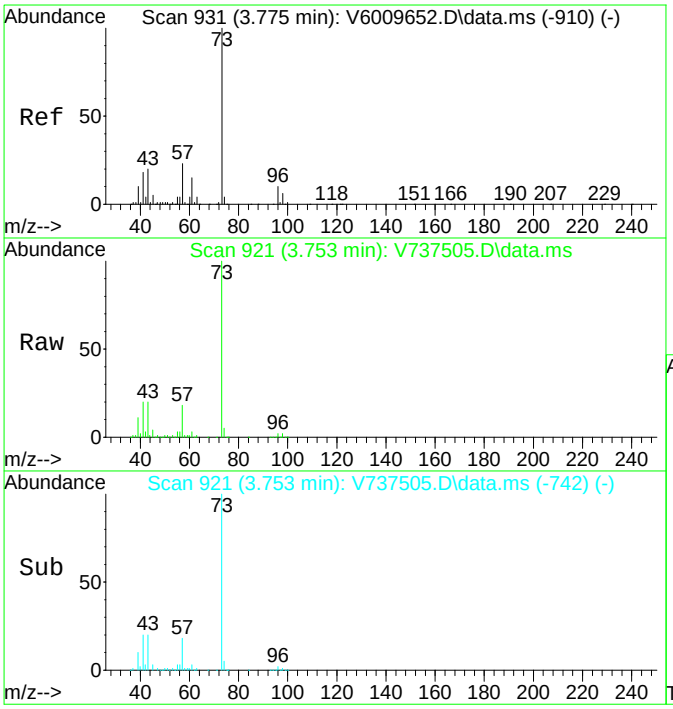


#20
trans-1,2-Dichloroethylene
Concen: 11.00 ppb
RT: 3.783 min Scan# 932
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 61 Resp: 132741

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	34.9	0.0	0.0#
96	88.1	0.0	0.0#

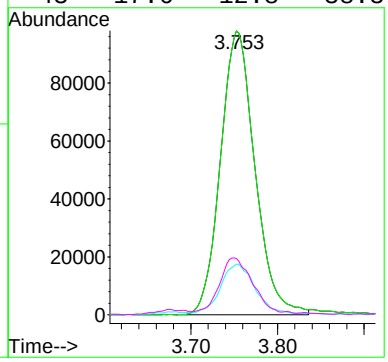


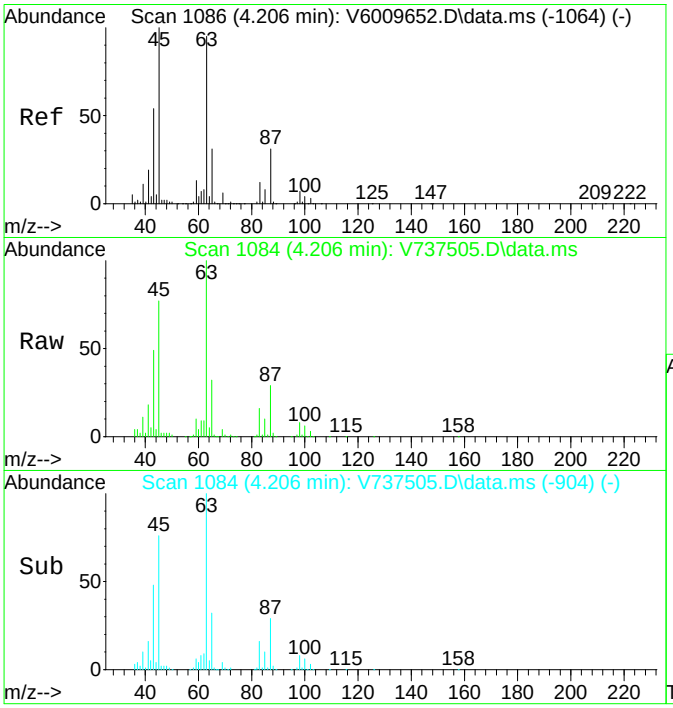


#21
tert-Butyl Methyl Ether (MTBE)
Concen: 11.11 ppb
RT: 3.753 min Scan# 921
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 73 Resp: 271052

Ion	Ratio	Lower	Upper
73	100		
73	100.0	80.0	120.0
57	17.6	13.2	39.5
43	17.6	12.8	38.3

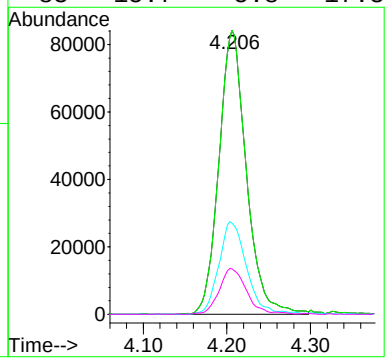


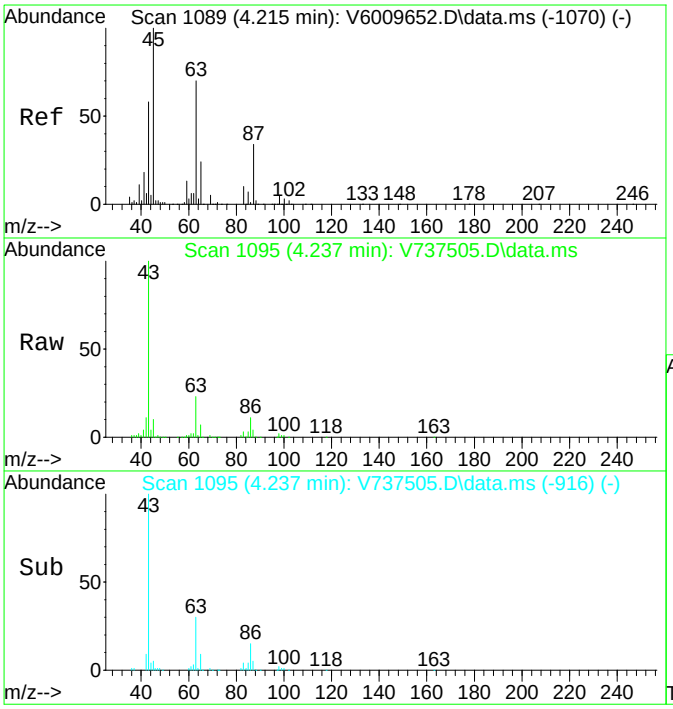


#22
1,1-Dichloroethane
Concen: 11.03 ppb
RT: 4.206 min Scan# 1084
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 63 Resp: 192124

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	32.4	19.9	41.3
83	15.7	5.8	17.3

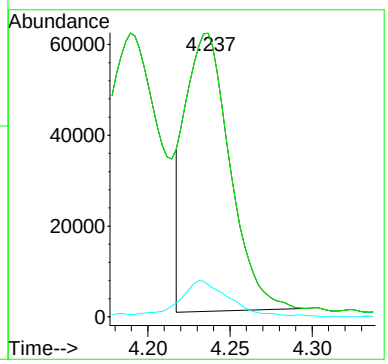


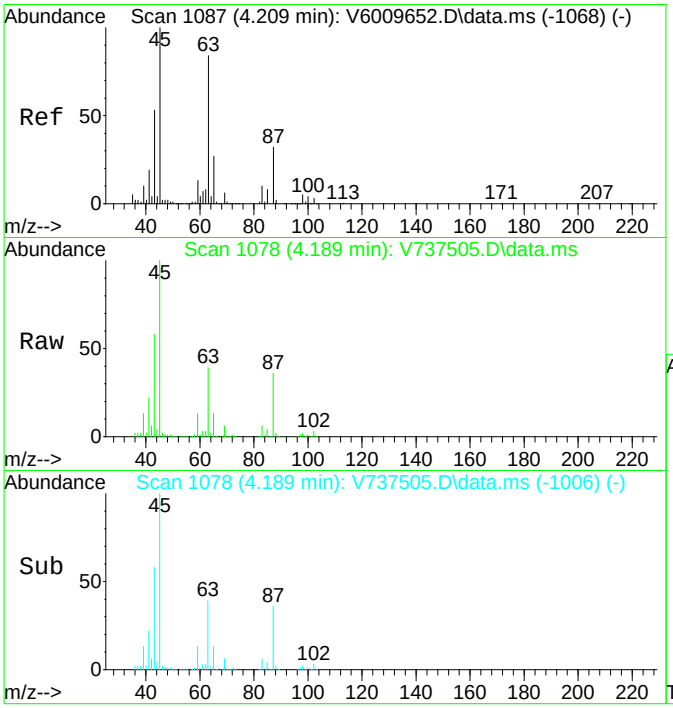


#23
Vinyl Acetate
Concen: 8.89 ppb
RT: 4.237 min Scan# 1095
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 43 Resp: 115685

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
86	0.0	0.0	0.0

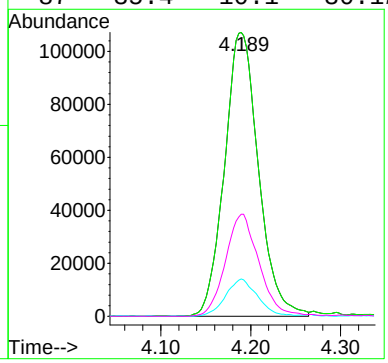


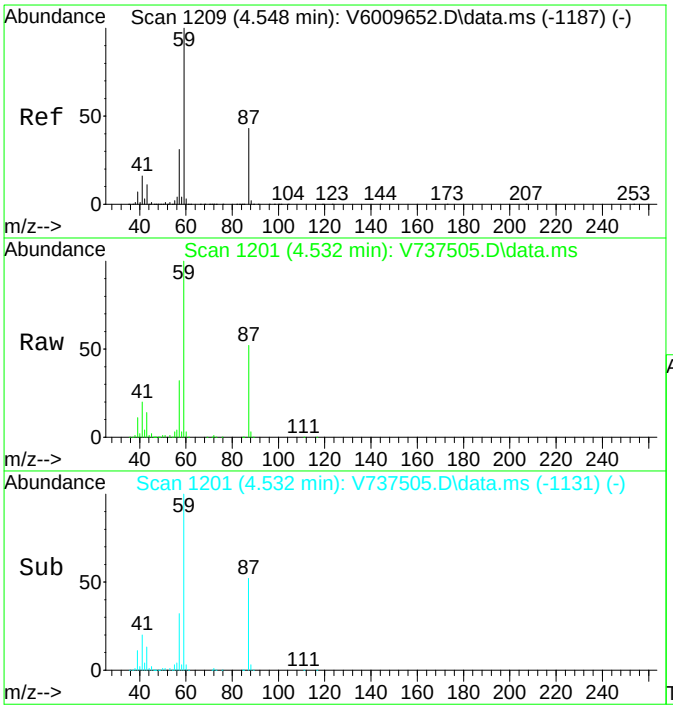


#24
Diisopropyl ether (DIPE)
Concen: 11.24 ppb
RT: 4.189 min Scan# 1078
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 45 Resp: 281693

Ion	Ratio	Lower	Upper
45	100		
45	100.0	80.0	120.0
59	12.4	5.1	15.3
87	35.4	10.1	30.1#

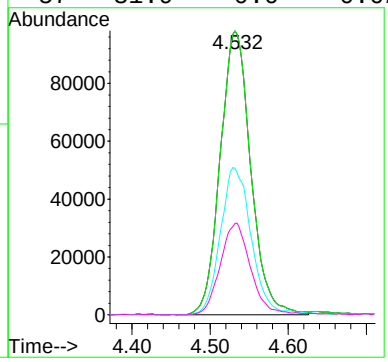


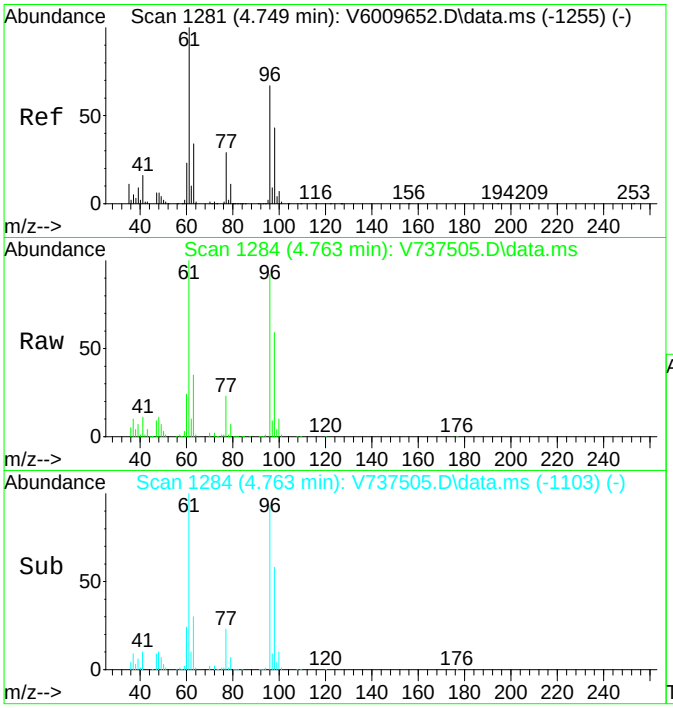


#25
Ethyl-tert-Butyl ether (ETBE)
Concen: 11.23 ppb
RT: 4.532 min Scan# 1201
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 59 Resp: 266989

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
87	0.0	17.0	51.0#
57	31.9	0.0	0.0#

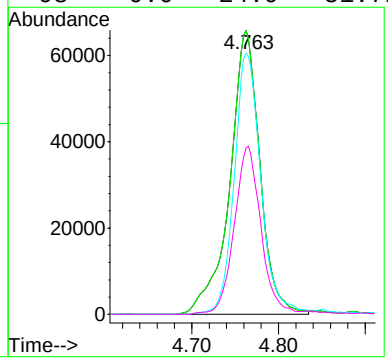


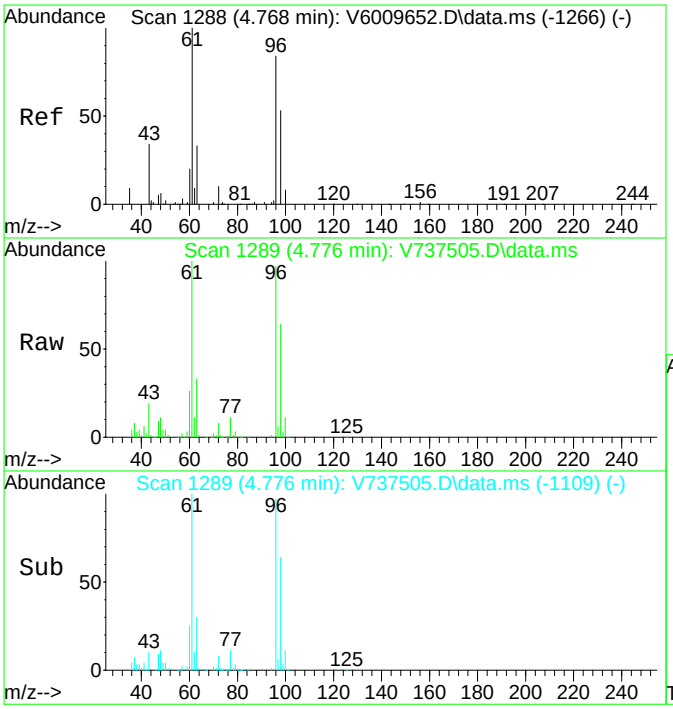


#26
cis-1,2-Dichloroethylene
Concen: 11.30 ppb
RT: 4.763 min Scan# 1284
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 61 Resp: 159072

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	37.8	78.4#
98	0.0	24.9	51.7#

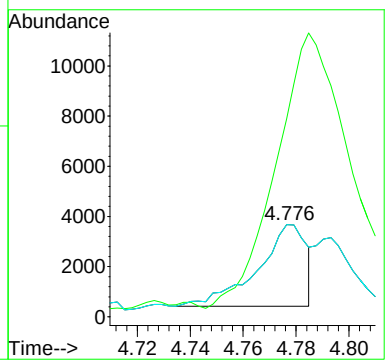


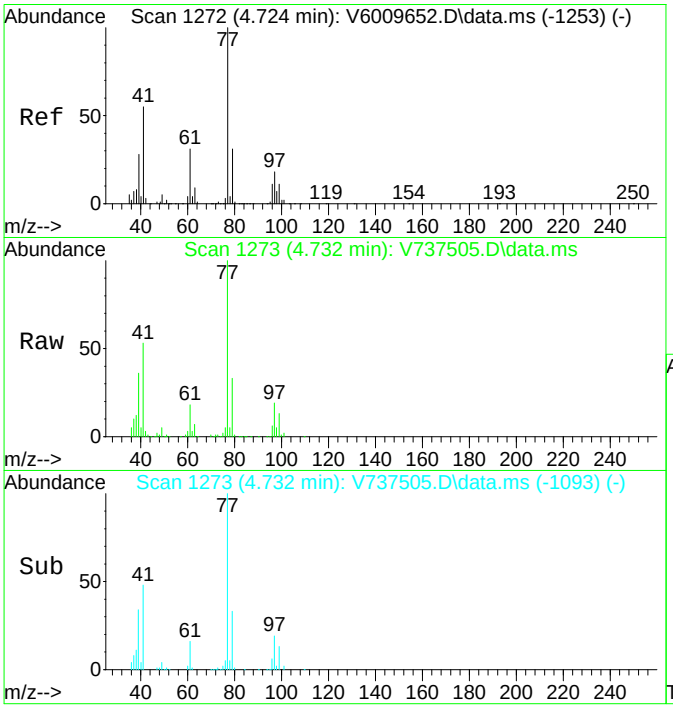


#27
2-Butanone
Concen: 4.78 ppb
RT: 4.776 min Scan# 1289
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 72 Resp: 4169

Ion	Ratio	Lower	Upper
72	100		
43	528.9	0.0	0.0#
72	100.0	50.0	150.0

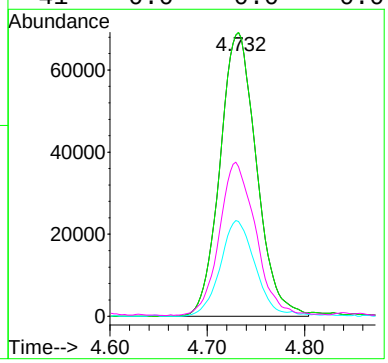


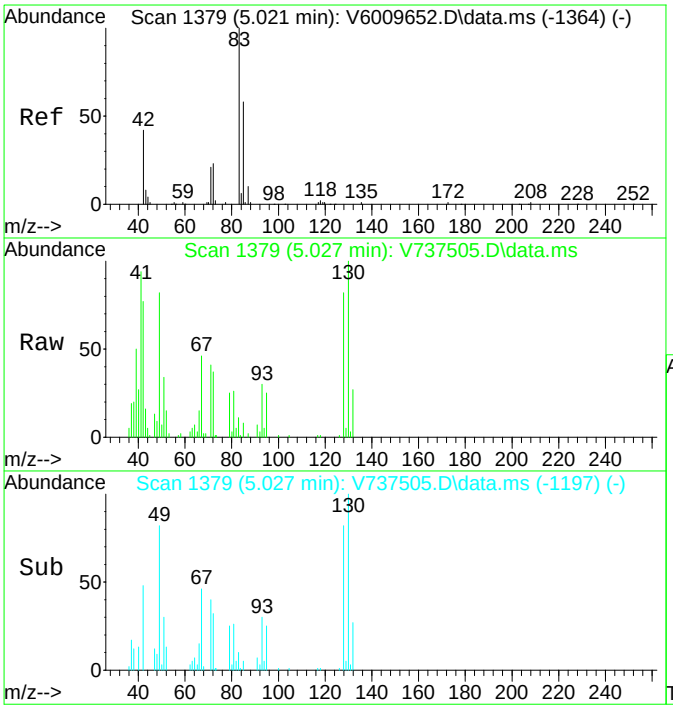


#28
2,2-Dichloropropane
Concen: 12.33 ppb
RT: 4.732 min Scan# 1273
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 77 Resp: 181327

Ion	Ratio	Lower	Upper
77	100		
77	100.0	80.0	120.0
79	0.0	20.9	43.5#
41	0.0	0.0	0.0

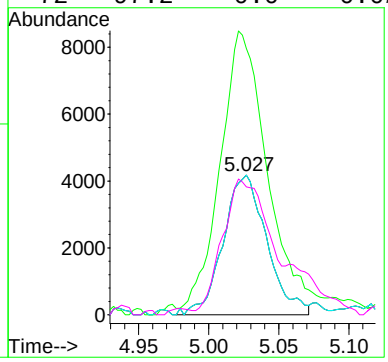


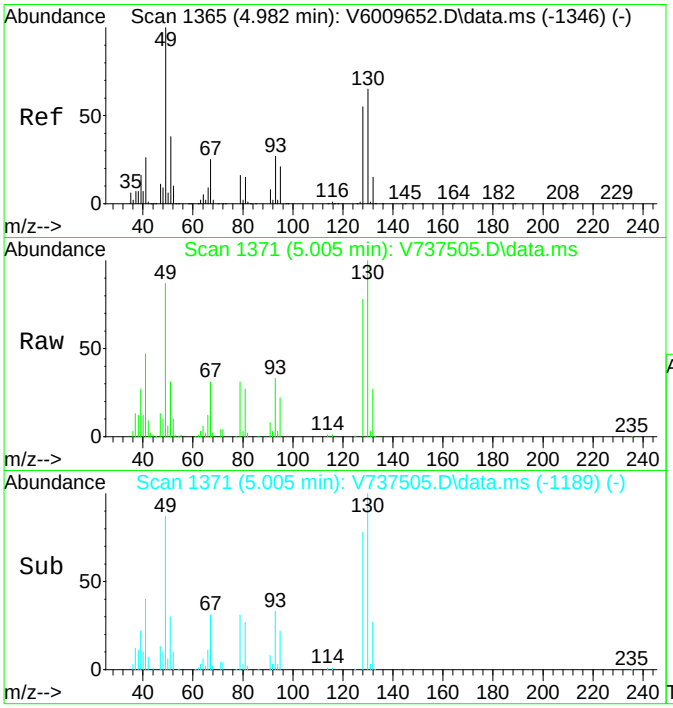


#29
Tetrahydrofuran
Concen: 10.77 ppb
RT: 5.027 min Scan# 1379
Delta R.T. 0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 71 Resp: 9045

Ion	Ratio	Lower	Upper
71	100		
42	210.8	279.2	418.8#
71	100.0	50.0	150.0
72	97.2	0.0	0.0#

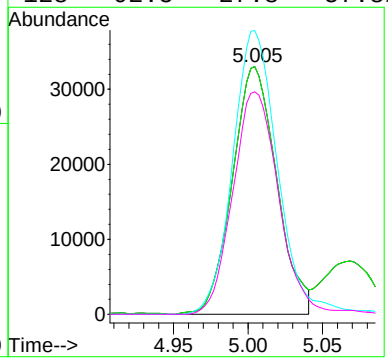


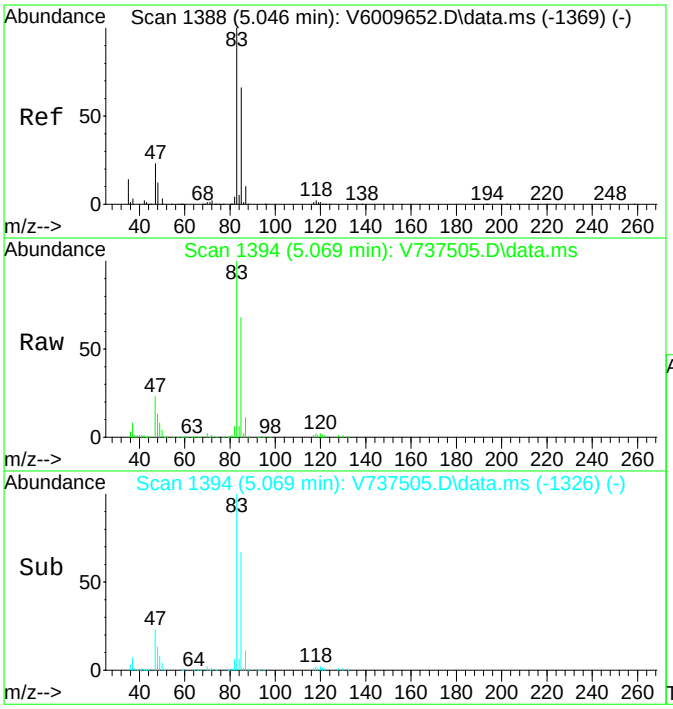


#30
Bromochloromethane
Concen: 10.89 ppb
RT: 5.005 min Scan# 1371
Delta R.T. 0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 49 Resp: 68301

Ion	Ratio	Lower	Upper
49	100		
49	100.0	65.0	135.0
130	116.5	35.7	74.1#
128	92.5	27.8	57.8#

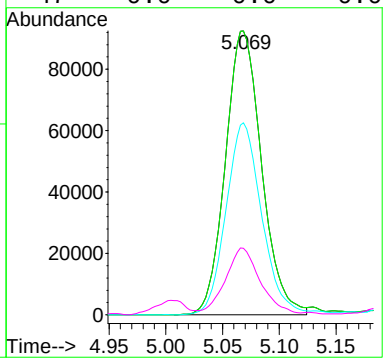


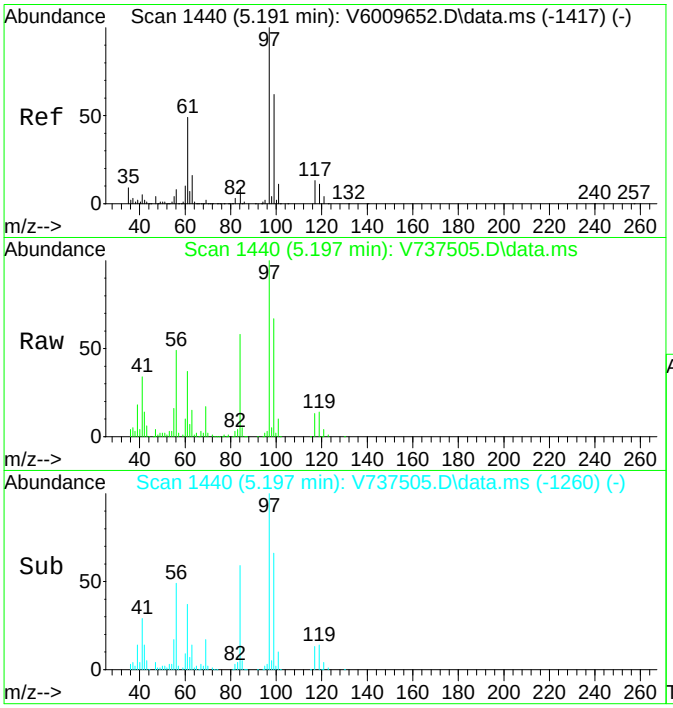


#31
Chloroform
Concen: 10.95 ppb
RT: 5.069 min Scan# 1394
Delta R.T. -0.011 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 83 Resp: 205960

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	66.5	41.8	86.8
47	0.0	0.0	0.0

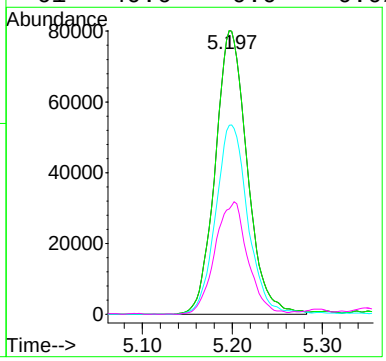


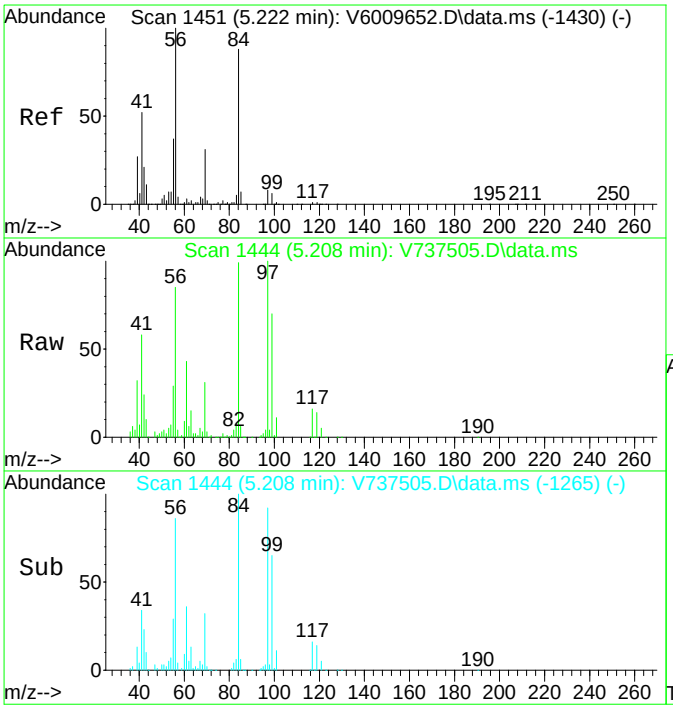


#32
1,1,1-Trichloroethane
Concen: 11.46 ppb
RT: 5.197 min Scan# 1440
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 97 Resp: 198489

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	67.1	42.3	87.9
61	40.6	0.0	0.0#

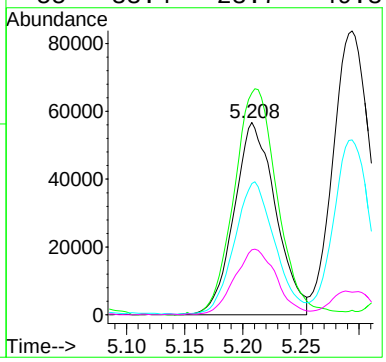


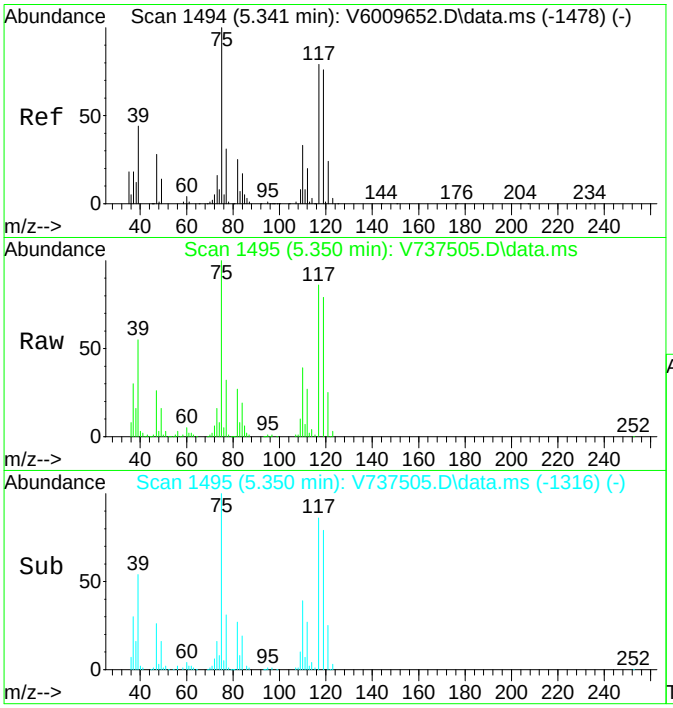


#33
Cyclohexane
Concen: 10.82 ppb
RT: 5.208 min Scan# 1444
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 56 Resp: 141194

Ion	Ratio	Lower	Upper
56	100		
84	120.6	44.2	91.8#
41	66.7	37.9	78.7
55	33.4	23.7	49.3

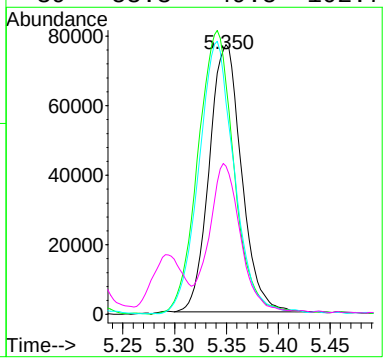


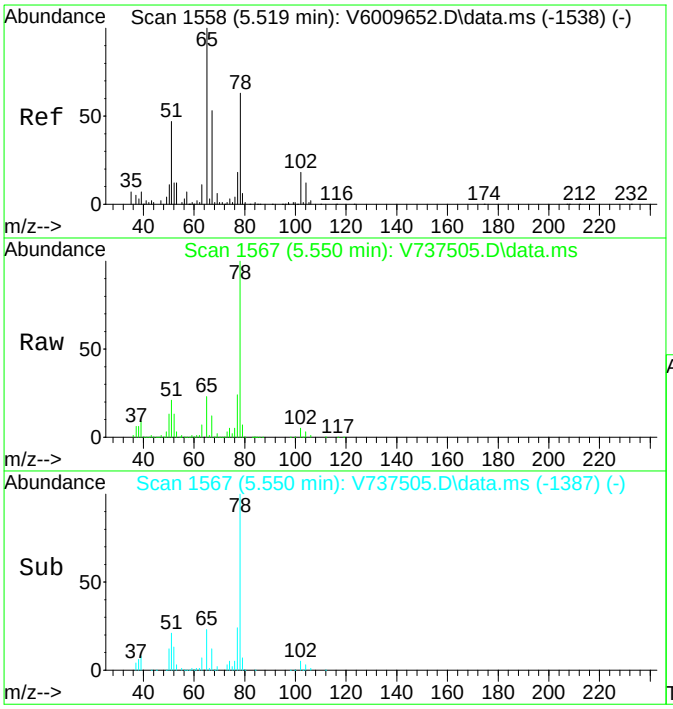


#34
1,1-Dichloropropylene
Concen: 10.92 ppb
RT: 5.350 min Scan# 1495
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 75 Resp: 166639

Ion	Ratio	Lower	Upper
75	100		
117	118.8	65.3	135.5
119	111.4	62.6	130.0
39	53.3	49.5	102.7

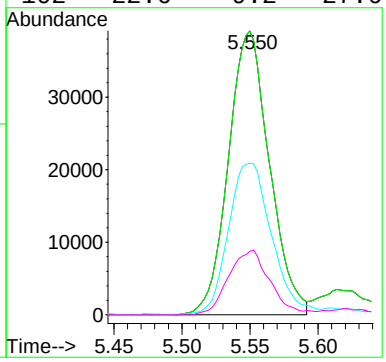


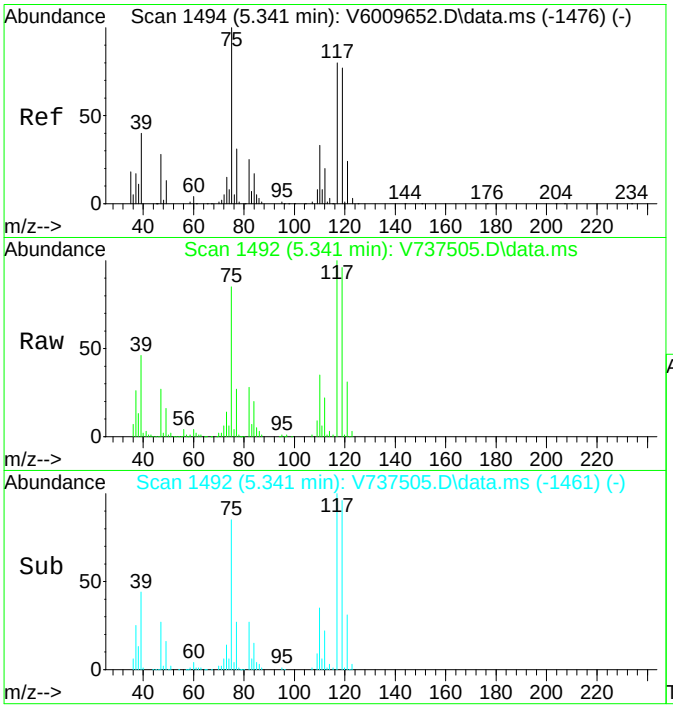


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.91 ppb
RT: 5.550 min Scan# 1567
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 65 Resp: 82181

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	56.4	33.0	68.6
102	22.6	9.2	27.6

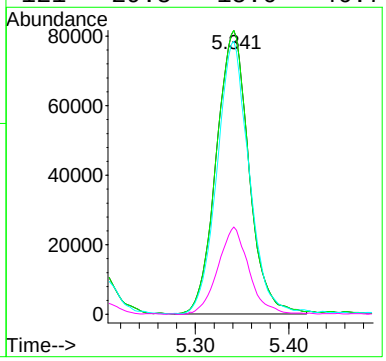


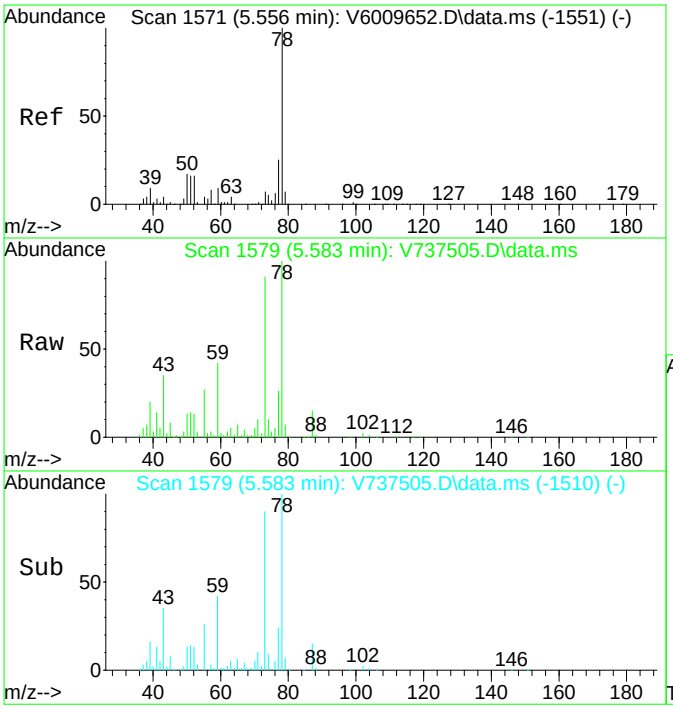


#36
Carbon Tetrachloride
Concen: 11.41 ppb
RT: 5.341 min Scan# 1492
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:117 Resp: 197990

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	93.7	62.3	129.5
121	29.5	15.6	46.7

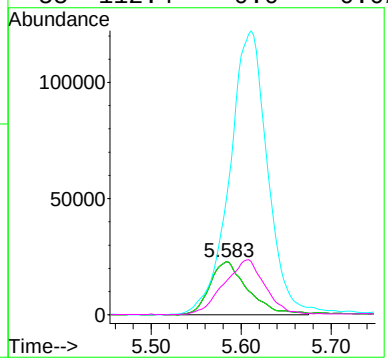


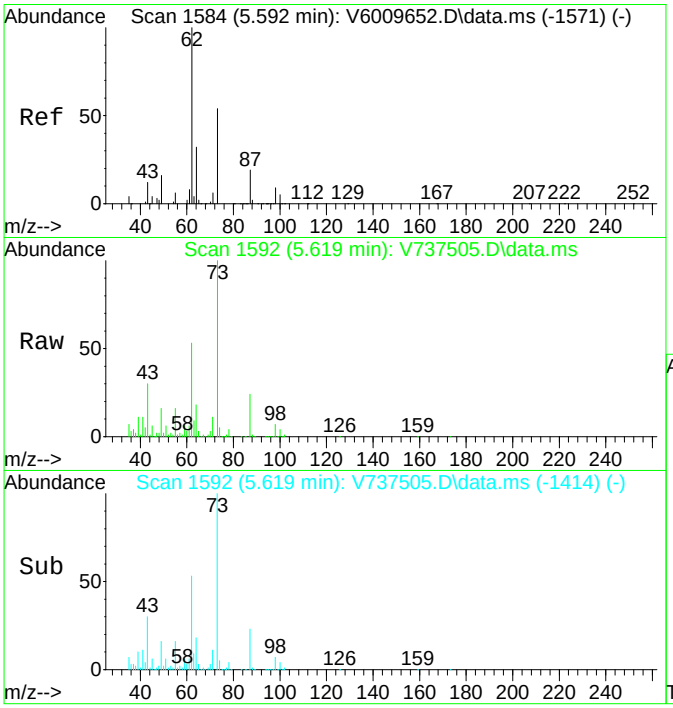


#37
tert-Amyl alcohol (TAA)
Concen: 111.06 ppb
RT: 5.583 min Scan# 1579
Delta R.T. -0.008 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 59 Resp: 67383

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
73	536.4	22.9	68.5#
55	112.4	0.0	0.0#

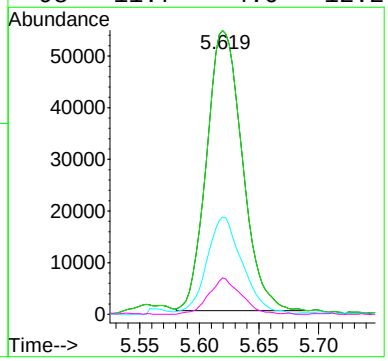


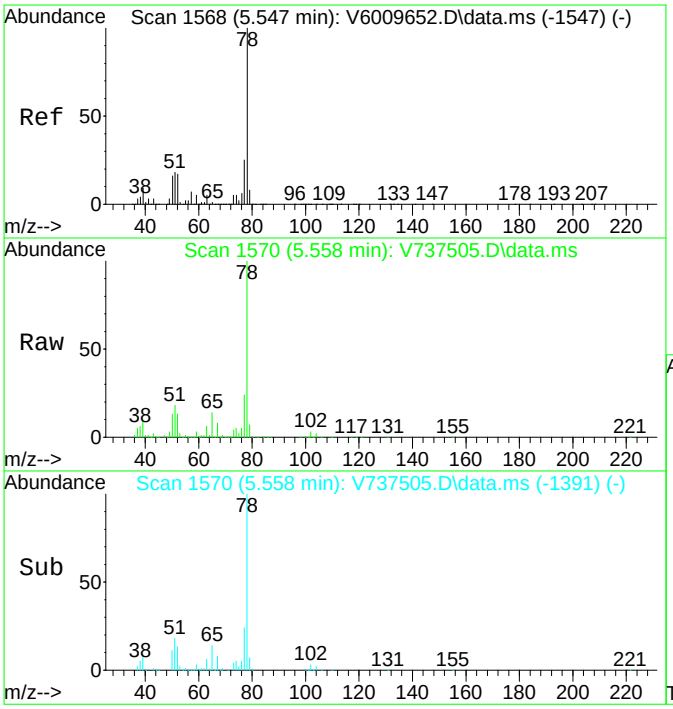


#38
1,2-Dichloroethane
Concen: 10.68 ppb
RT: 5.619 min Scan# 1592
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 62 Resp: 113240

Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	34.2	15.2	45.6
98	11.7	4.0	12.2

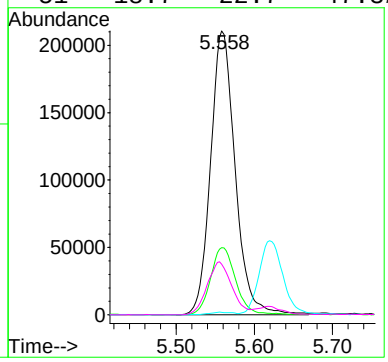


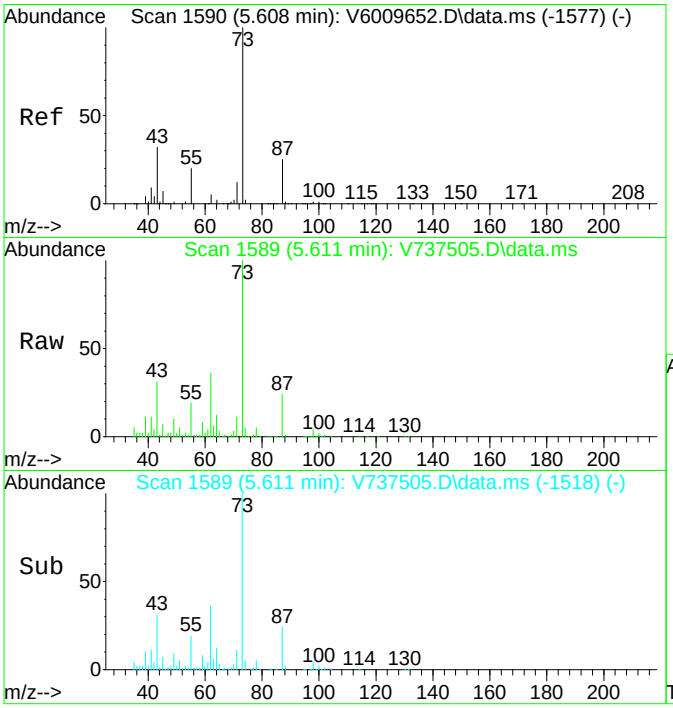


#39
Benzene
Concen: 11.18 ppb
RT: 5.558 min Scan# 1570
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 78 Resp: 461734

Ion	Ratio	Lower	Upper
78	100		
77	24.3	14.7	30.5
62	0.0	19.2	39.8#
51	18.7	22.7	47.3#

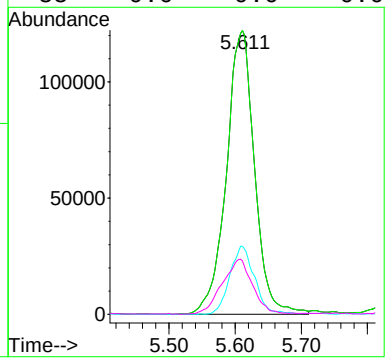


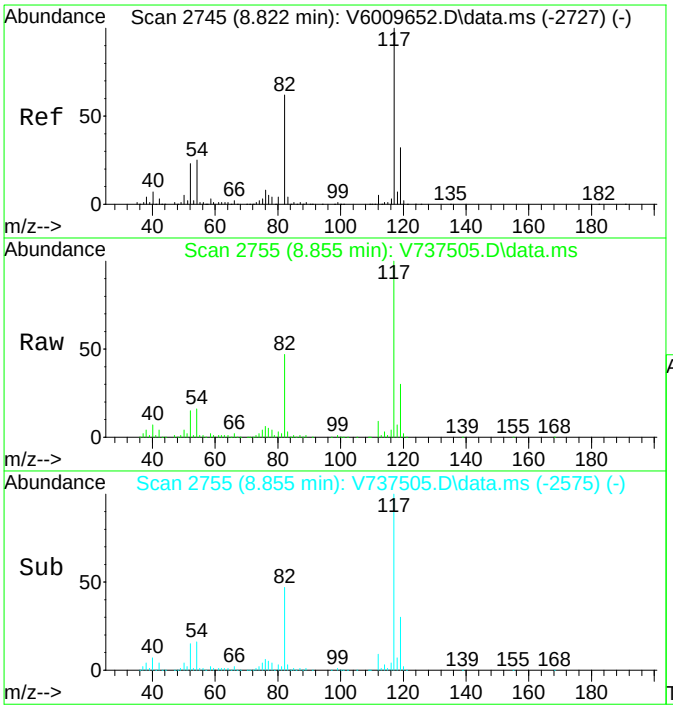


#40
tert-Amyl methyl ether (TAME)
Concen: 11.77 ppb
RT: 5.611 min Scan# 1589
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 73 Resp: 361421

Ion	Ratio	Lower	Upper
73	100		
73	100.0	79.6	119.4
87	0.0	11.9	35.5#
55	0.0	0.0	0.0

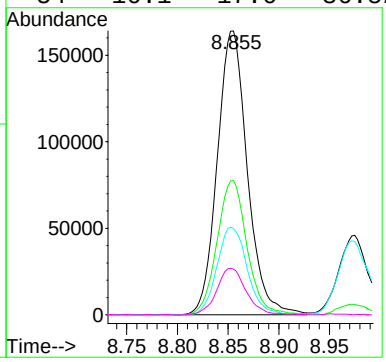


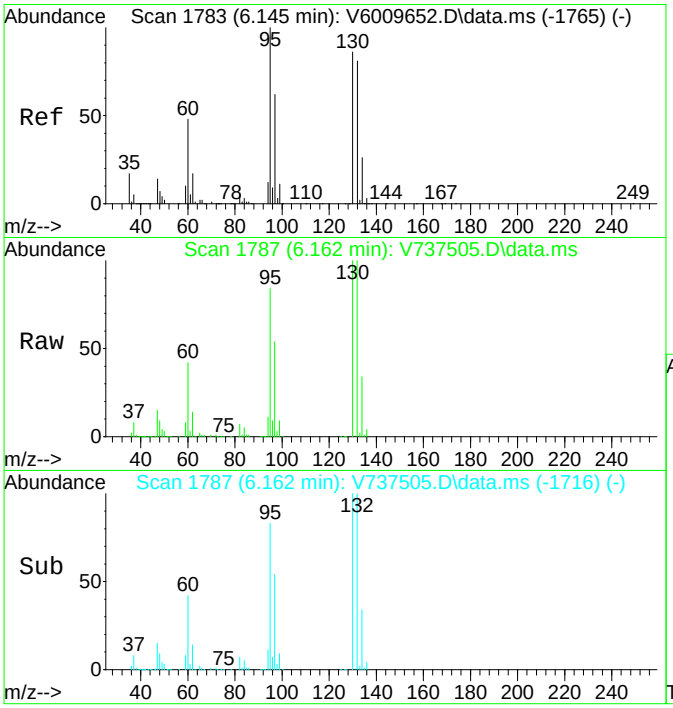


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:117 Resp: 338633

Ion	Ratio	Lower	Upper
117	100		
82	47.3	35.9	74.7
119	31.0	20.8	43.2
54	16.1	17.6	36.5#

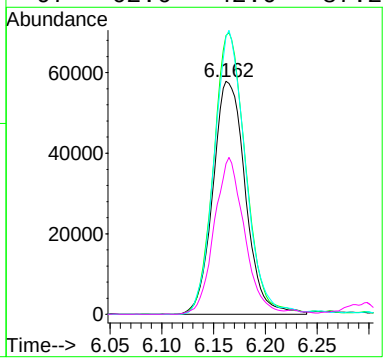


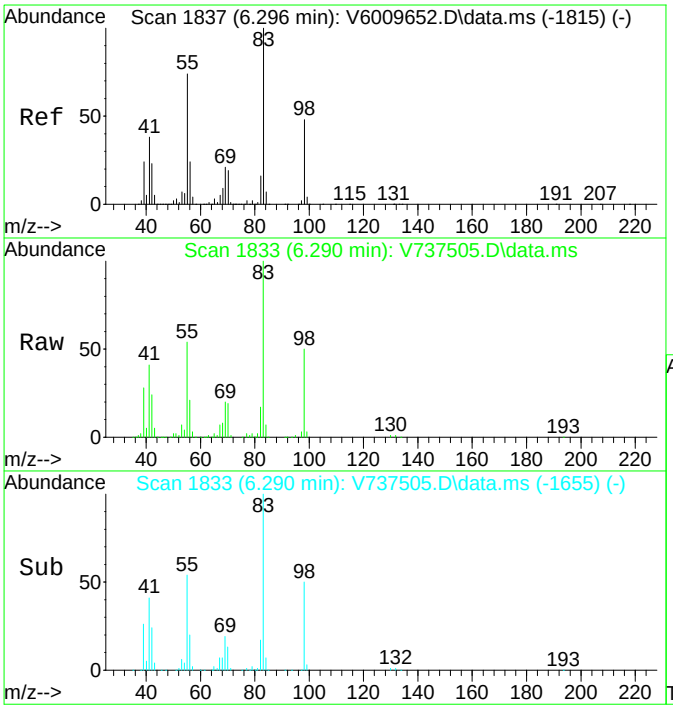


#42
Trichloroethylene
Concen: 10.42 ppb
RT: 6.162 min Scan# 1787
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 95 Resp: 126122

Ion	Ratio	Lower	Upper
95	100		
130	119.1	61.1	126.9
132	117.2	62.0	128.8
97	62.6	42.0	87.2

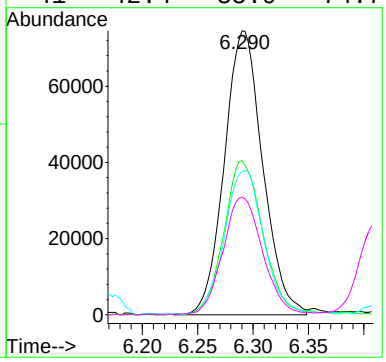


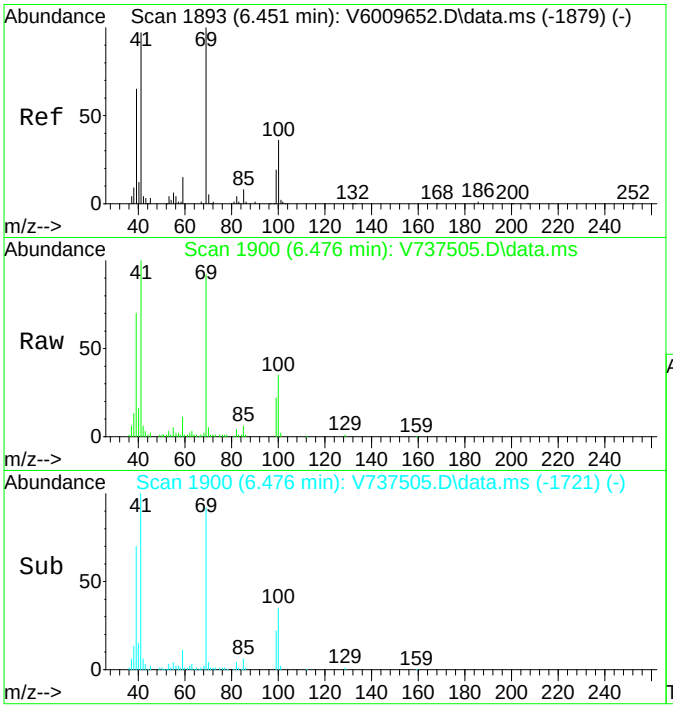


#43
Methyl Cyclohexane
Concen: 10.76 ppb
RT: 6.290 min Scan# 1833
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 83 Resp: 179602

Ion	Ratio	Lower	Upper
83	100		
55	54.9	65.5	136.1#
98	52.5	31.0	64.4
41	42.4	35.9	74.7

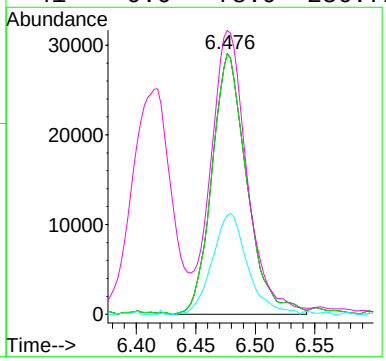


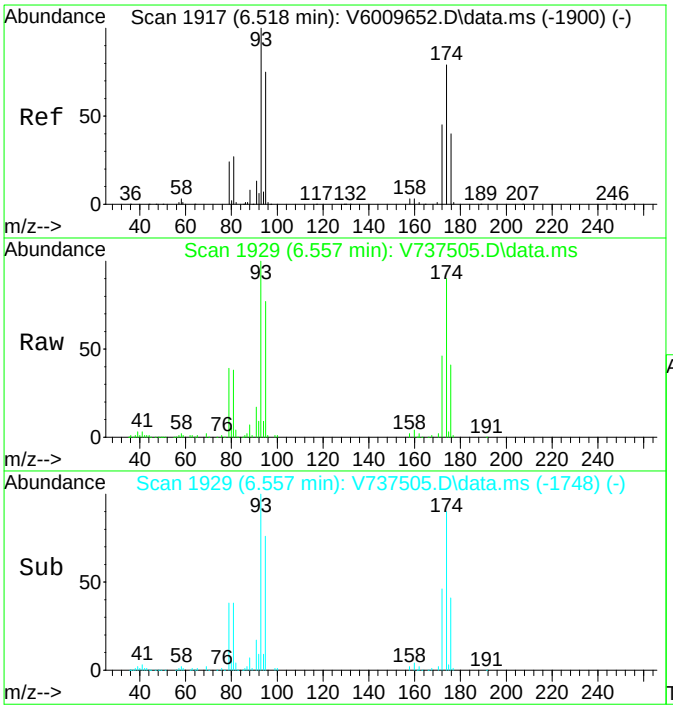


#44
Methyl Methacrylate
Concen: 11.13 ppb
RT: 6.476 min Scan# 1900
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 69 Resp: 59376

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	38.9	0.0	0.0#
41	0.0	78.9	236.7#

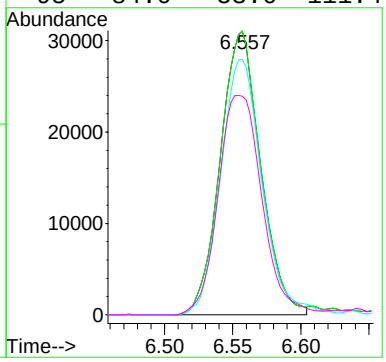


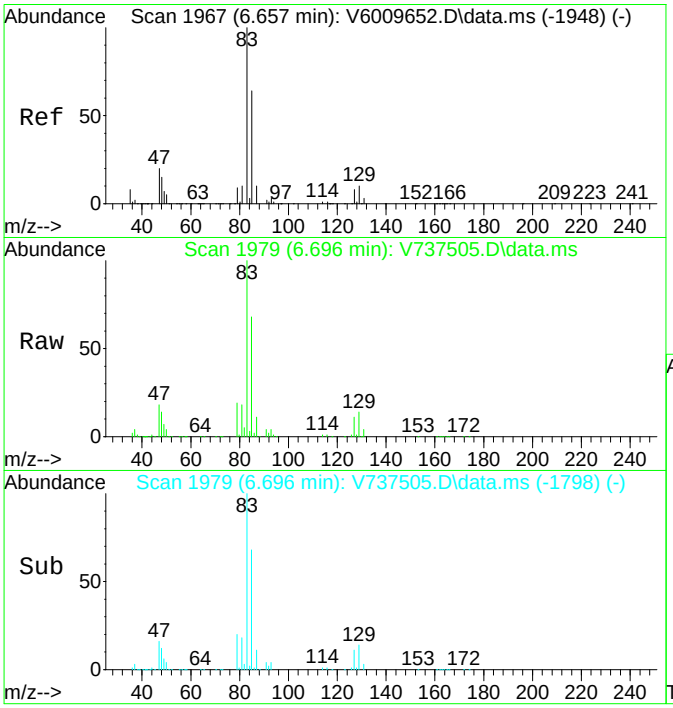


#45
Dibromomethane
Concen: 10.31 ppb
RT: 6.557 min Scan# 1929
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 93 Resp: 64031

Ion	Ratio	Lower	Upper
93	100		
93	100.0	65.0	135.0
174	0.0	60.5	125.6#
95	84.0	53.6	111.4

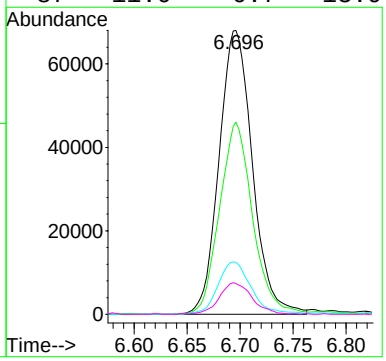


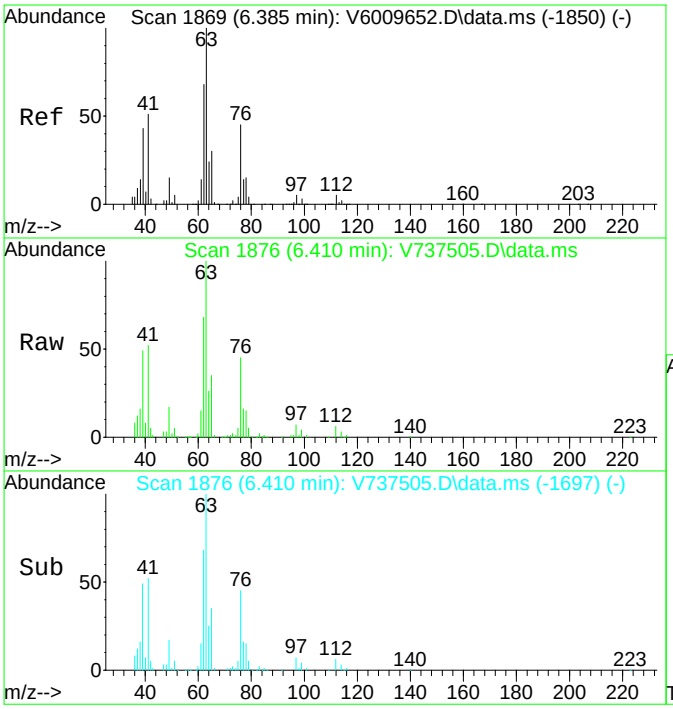


#46
Bromodichloromethane
Concen: 10.84 ppb
RT: 6.696 min Scan# 1979
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 83 Resp: 149345

Ion	Ratio	Lower	Upper
83	100		
85	66.9	41.0	85.0
47	18.5	15.9	33.1
87	11.0	6.7	13.9

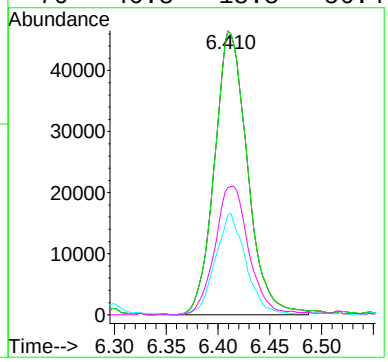


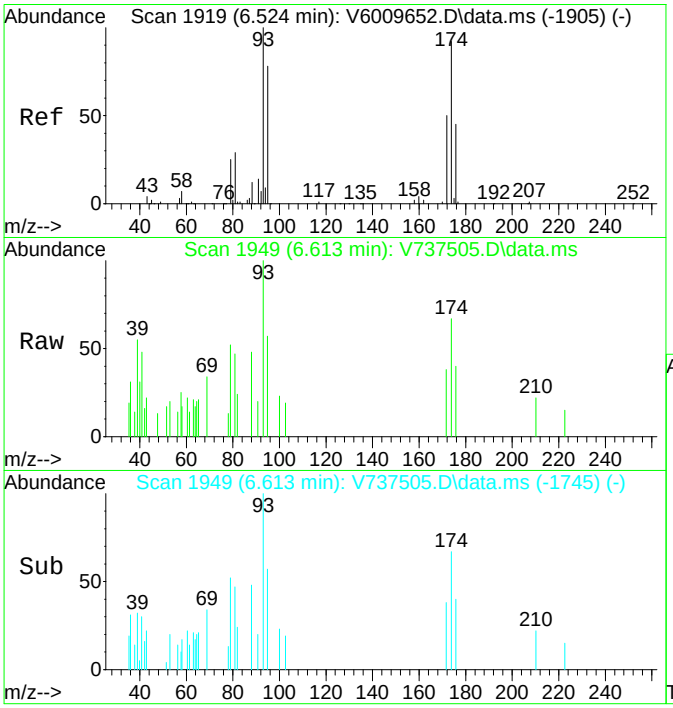


#47
1,2-Dichloropropane
Concen: 10.56 ppb
RT: 6.410 min Scan# 1876
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 63 Resp: 102925

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	33.1	14.5	43.6
76	46.8	18.8	56.4

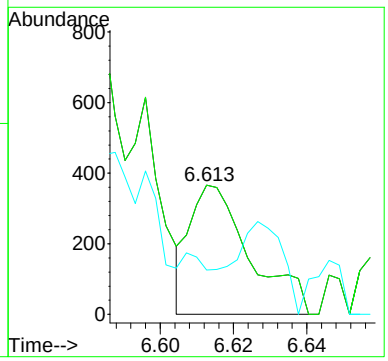


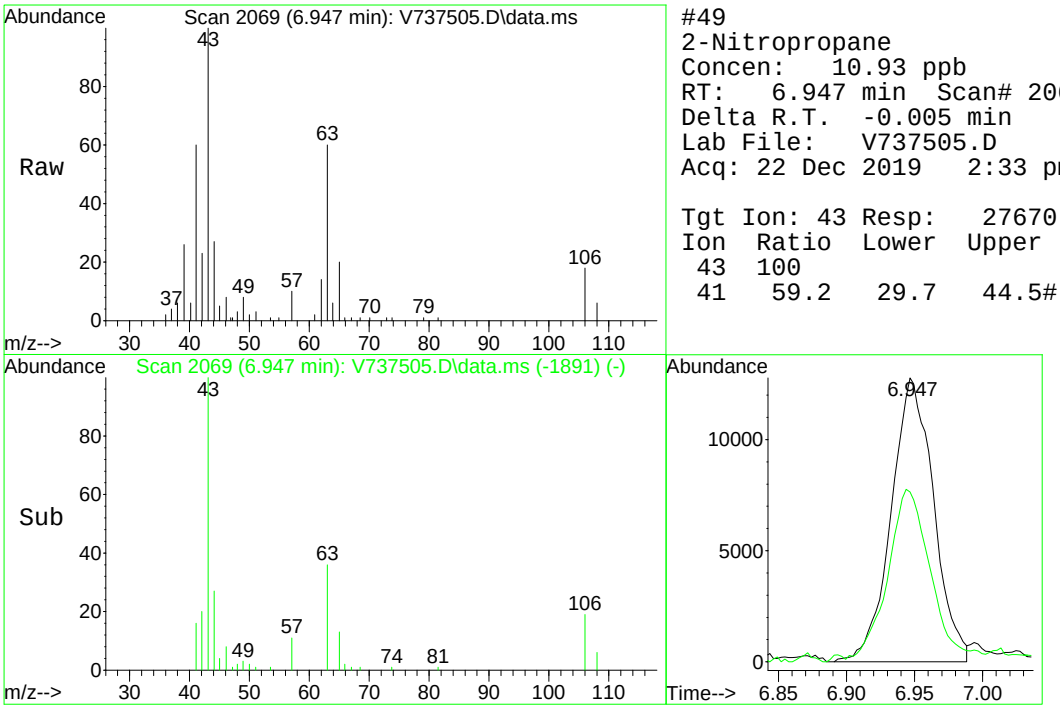


#48
1,4-Dioxane
Concen: 11.31 ppb
RT: 6.613 min Scan# 1949
Delta R.T. 0.067 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 88 Resp: 419

Ion	Ratio	Lower	Upper
88	100		
88	100.0	80.0	120.0
58	55.1	30.8	92.3

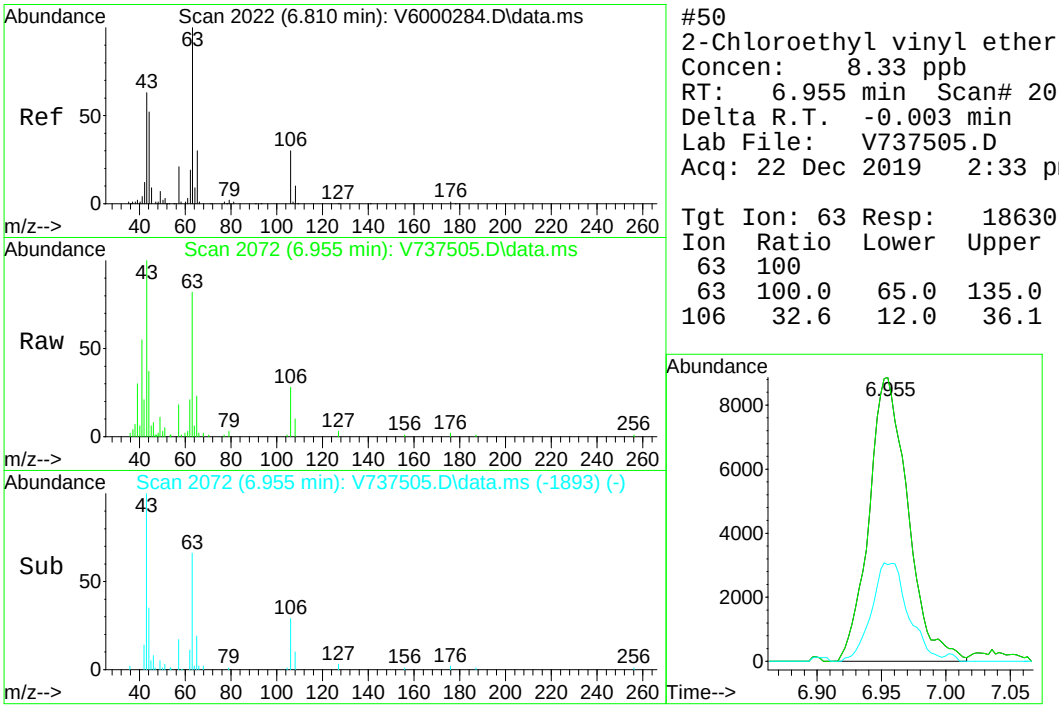




#49
2-Nitropropane
Concen: 10.93 ppb
RT: 6.947 min Scan# 2069
Delta R.T. -0.005 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 43 Resp: 27670

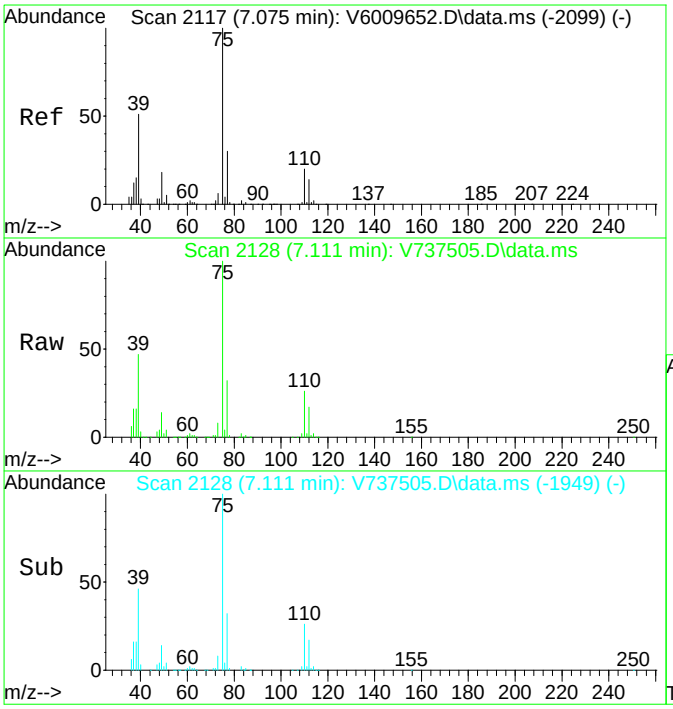
Ion	Ratio	Lower	Upper
43	100		
41	59.2	29.7	44.5#



#50
2-Chloroethyl vinyl ether
Concen: 8.33 ppb
RT: 6.955 min Scan# 2072
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 63 Resp: 18630

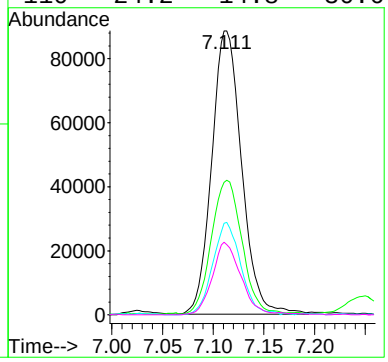
Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
106	32.6	12.0	36.1

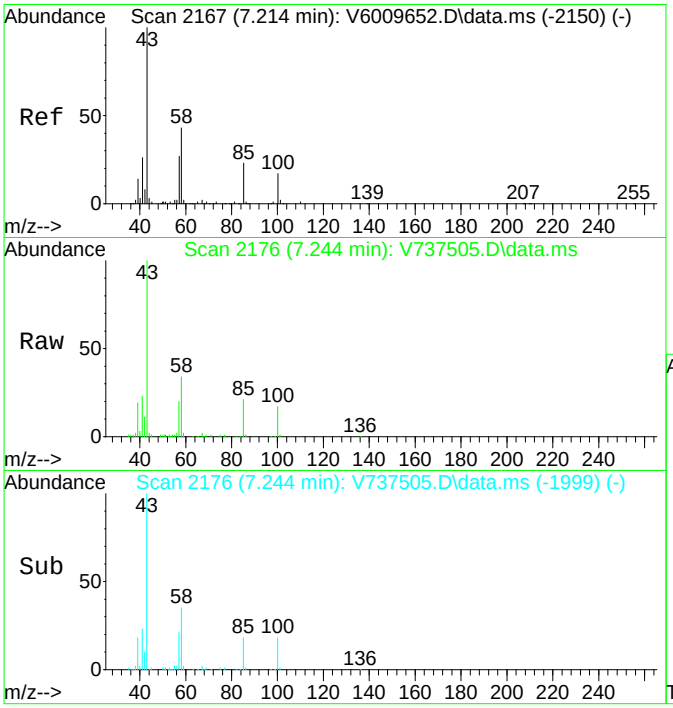


#51
cis-1,3-Dichloropropene
Concen: 11.58 ppb
RT: 7.111 min Scan# 2128
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 75 Resp: 182028

Ion	Ratio	Lower	Upper
75	100		
39	47.9	41.8	86.8
77	30.7	20.1	41.7
110	24.2	14.8	30.6

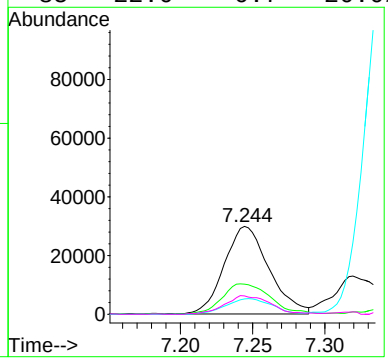


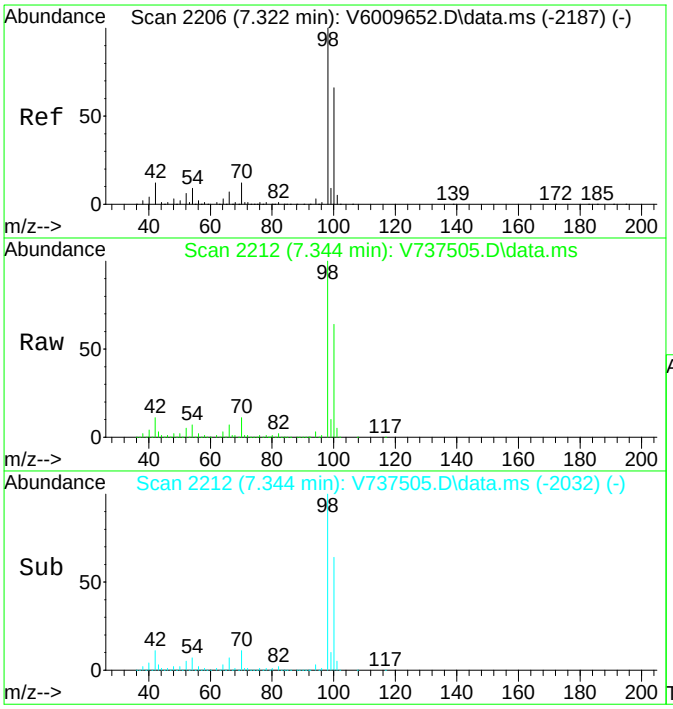


#52
4-Methyl-2-Pentanone
Concen: 11.28 ppb
RT: 7.244 min Scan# 2176
Delta R.T. -0.008 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 43 Resp: 64242

Ion	Ratio	Lower	Upper
43	100		
58	38.0	23.8	49.4
100	18.6	5.8	17.3#
85	22.0	6.7	20.0#

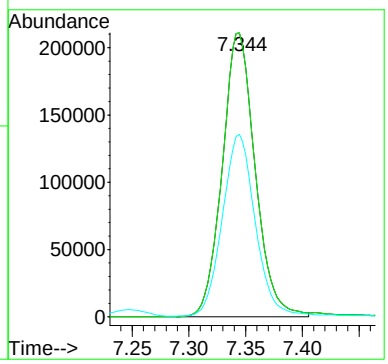


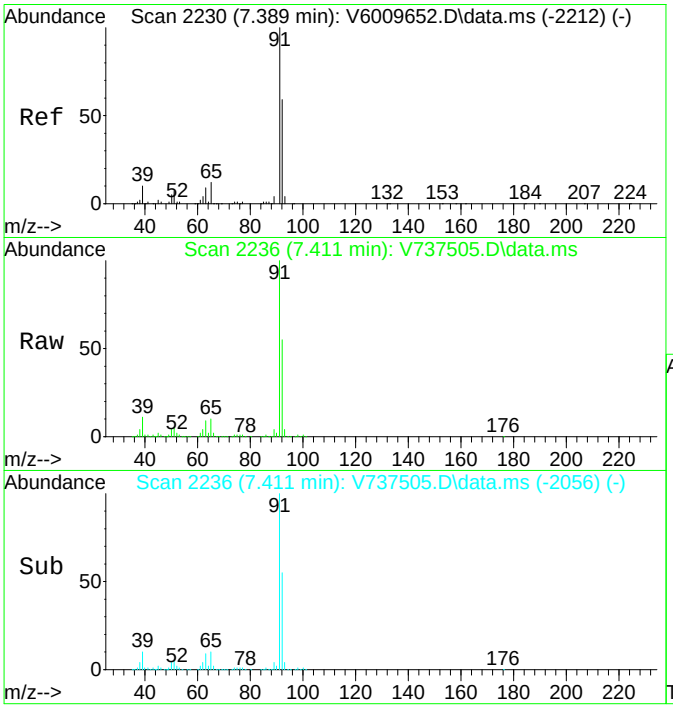


#53
Toluene-d8 (SURR)
Concen: 9.78 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 98 Resp: 426530

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.0	43.4	90.2

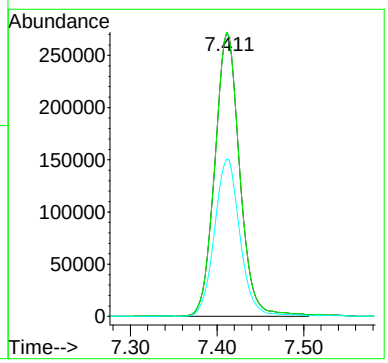


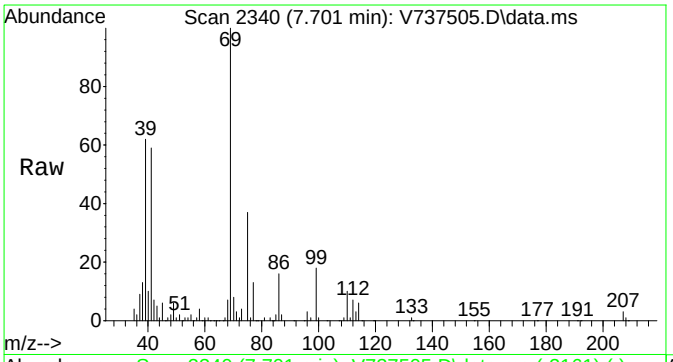


#54
Toluene
Concen: 10.85 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 542605

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	56.4	38.4	79.7

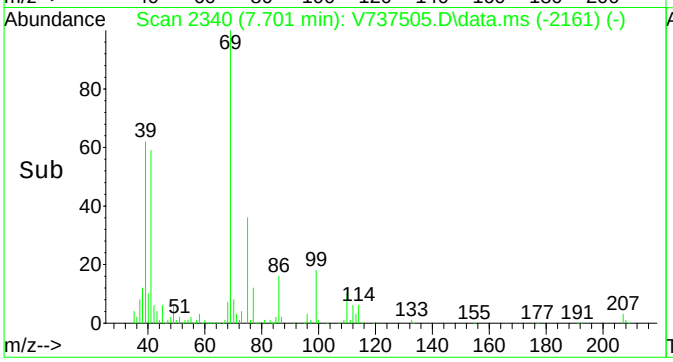


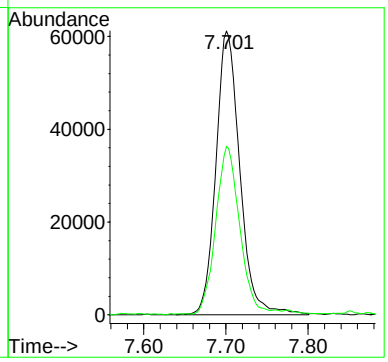


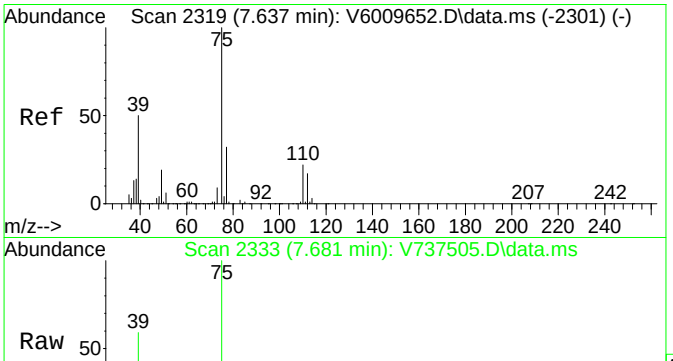
#55
Ethyl Methacrylate
Concen: 11.27 ppb
RT: 7.701 min Scan# 2340
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 69 Resp: 123837

Ion	Ratio	Lower	Upper
69	100		
41	58.3	125.7	188.5#



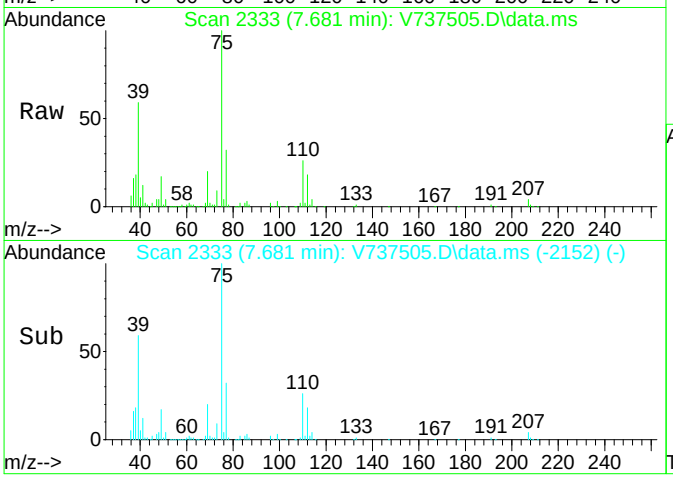


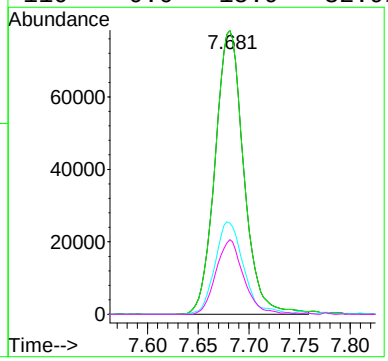


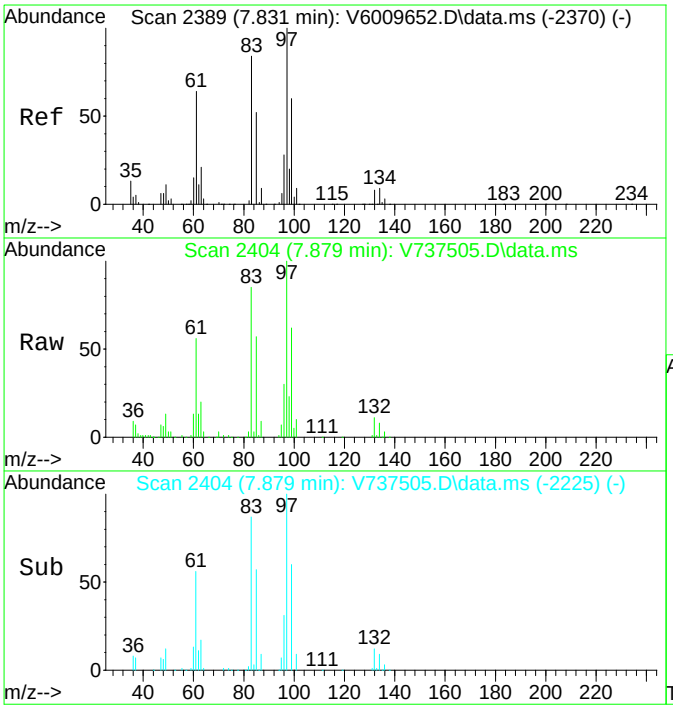
#56
trans-1,3-Dichloropropene
Concen: 11.46 ppb
RT: 7.681 min Scan# 2333
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 75 Resp: 153968

Ion	Ratio	Lower	Upper
75	100		
75	100.0	65.0	135.0
77	32.6	20.3	42.3
110	0.0	15.9	32.9#



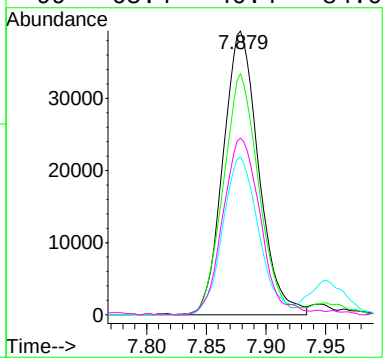


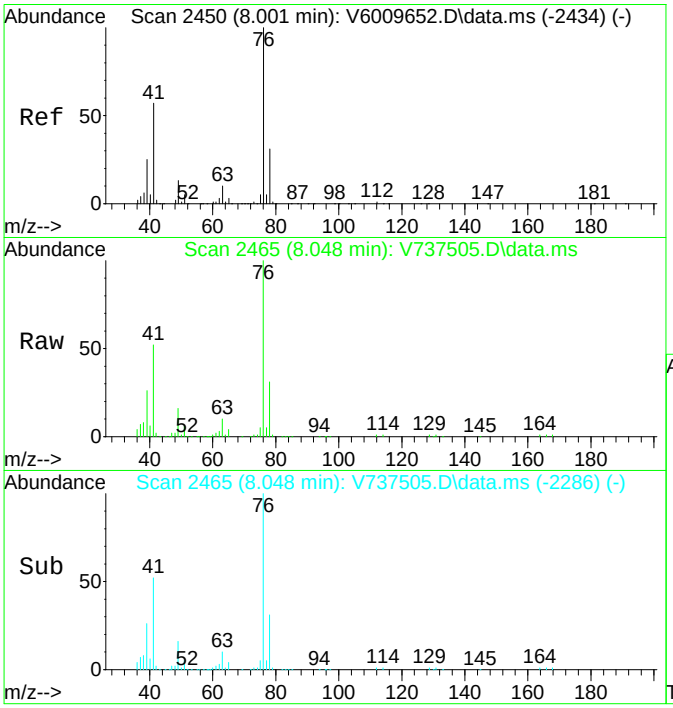


#57
1,1,2-Trichloroethane
Concen: 10.62 ppb
RT: 7.879 min Scan# 2404
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 97 Resp: 81742

Ion	Ratio	Lower	Upper
97	100		
83	84.1	54.1	112.5
61	56.4	44.3	91.9
99	65.4	40.4	84.0

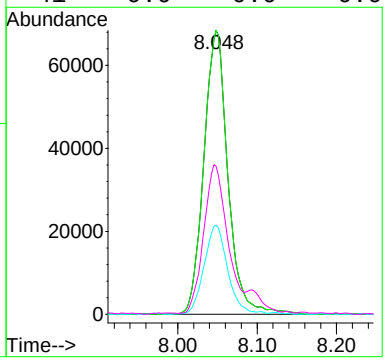


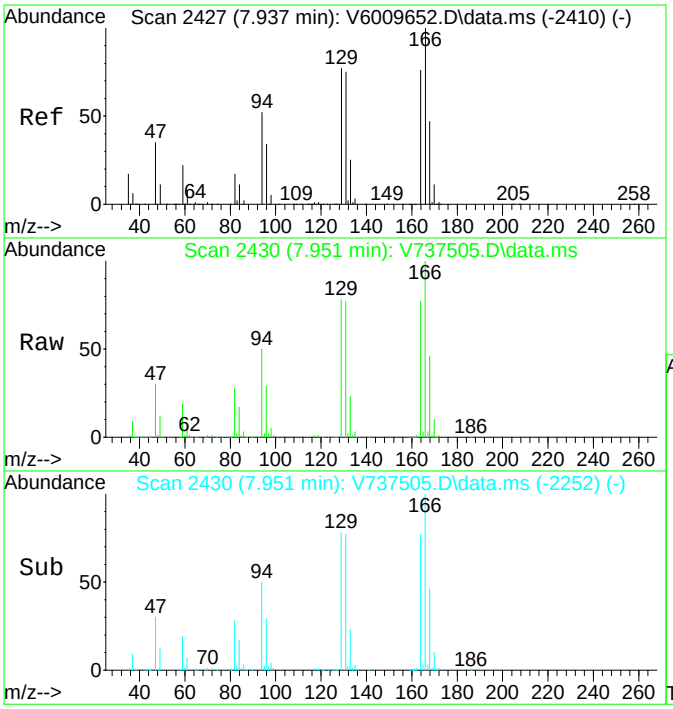


#58
1,3-Dichloropropane
Concen: 11.14 ppb
RT: 8.048 min Scan# 2465
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 76 Resp: 144426

Ion	Ratio	Lower	Upper
76	100		
76	100.0	80.0	120.0
78	30.5	16.4	49.2
41	0.0	0.0	0.0

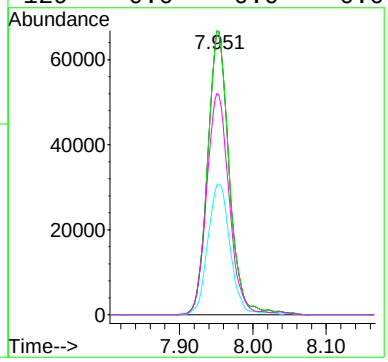


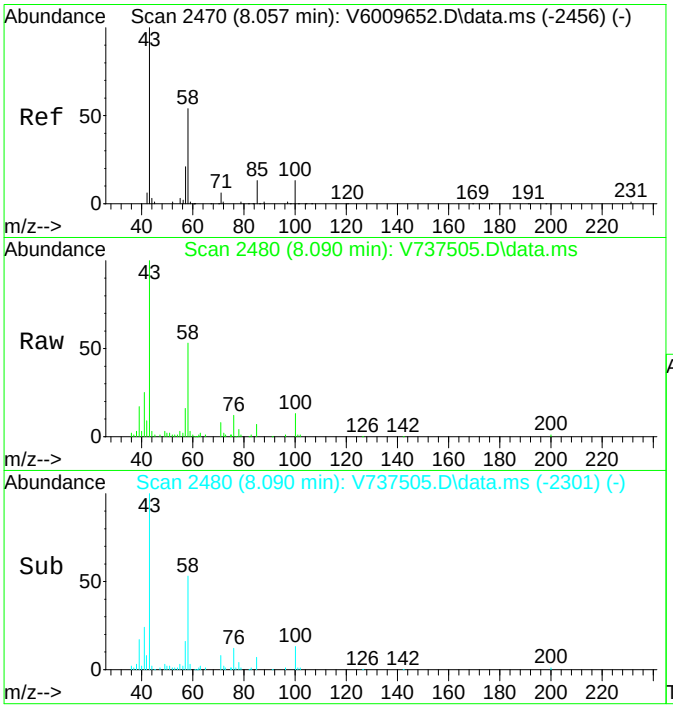


#59
Tetrachloroethylene
Concen: 9.28 ppb
RT: 7.951 min Scan# 2430
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:166 Resp: 136869

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	47.2	0.0	0.0#
129	0.0	0.0	0.0

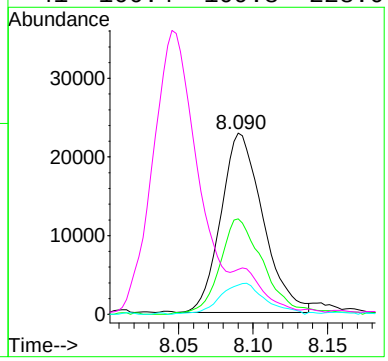


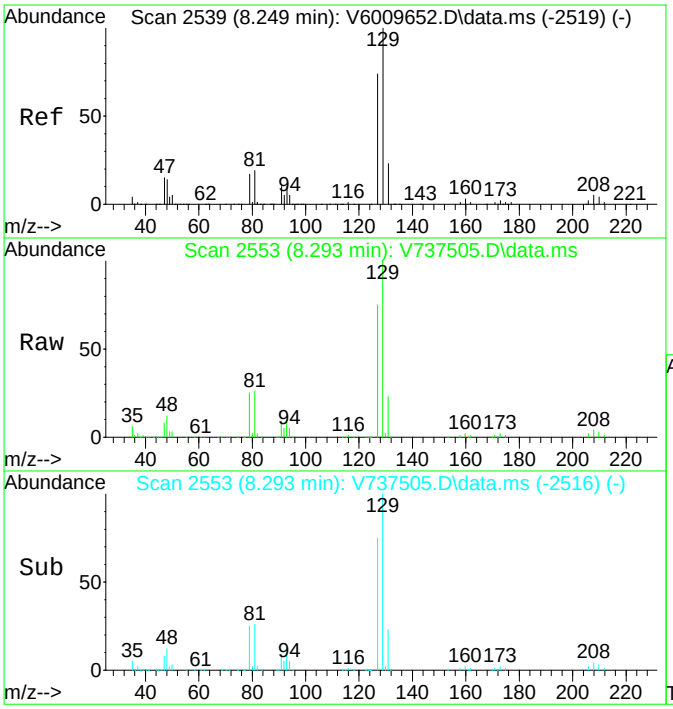


#60
2-Hexanone
Concen: 10.96 ppb
RT: 8.090 min Scan# 2480
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 43 Resp: 44653

Ion	Ratio	Lower	Upper
43	100		
58	56.0	33.0	68.6
57	18.7	11.1	23.1
41	166.4	109.8	228.0

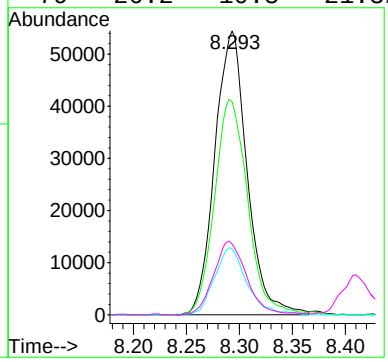


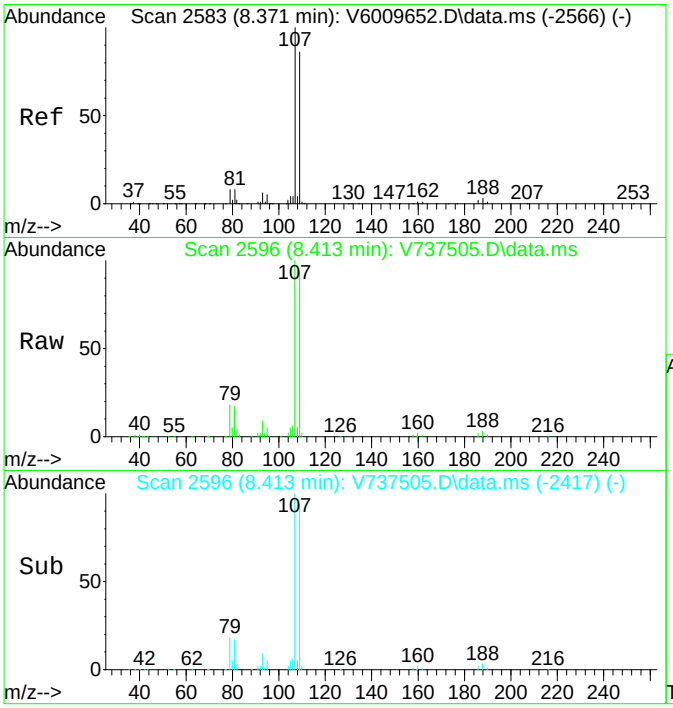


#61
Dibromochloromethane
Concen: 11.62 ppb
RT: 8.293 min Scan# 2553
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:129 Resp: 115595

Ion	Ratio	Lower	Upper
129	100		
127	77.6	49.8	103.4
131	23.7	16.1	33.5
79	26.2	10.3	21.3#

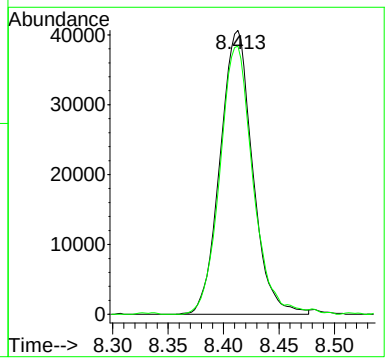


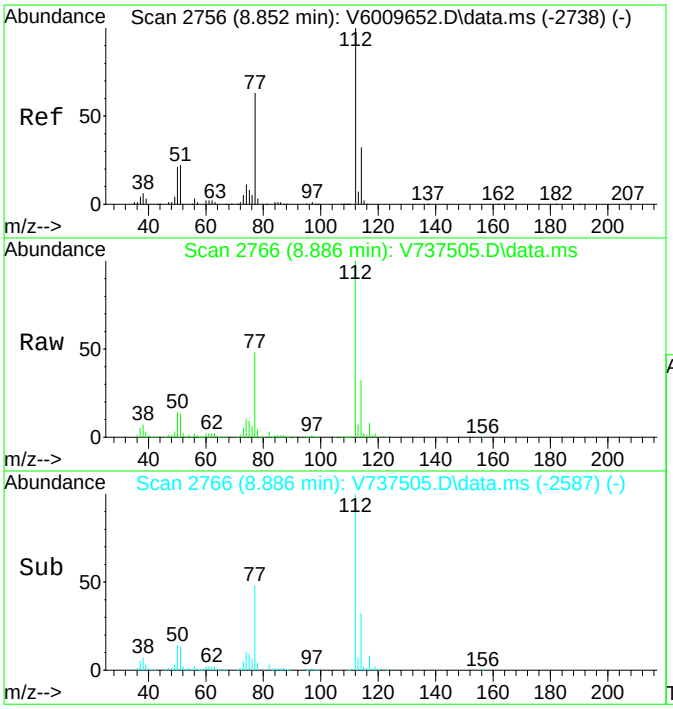


#62
1,2-Dibromoethane
Concen: 10.59 ppb
RT: 8.413 min Scan# 2596
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:107 Resp: 82994

Ion	Ratio	Lower	Upper
107	100		
109	95.7	62.0	128.8

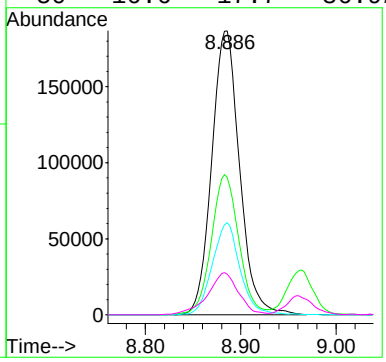


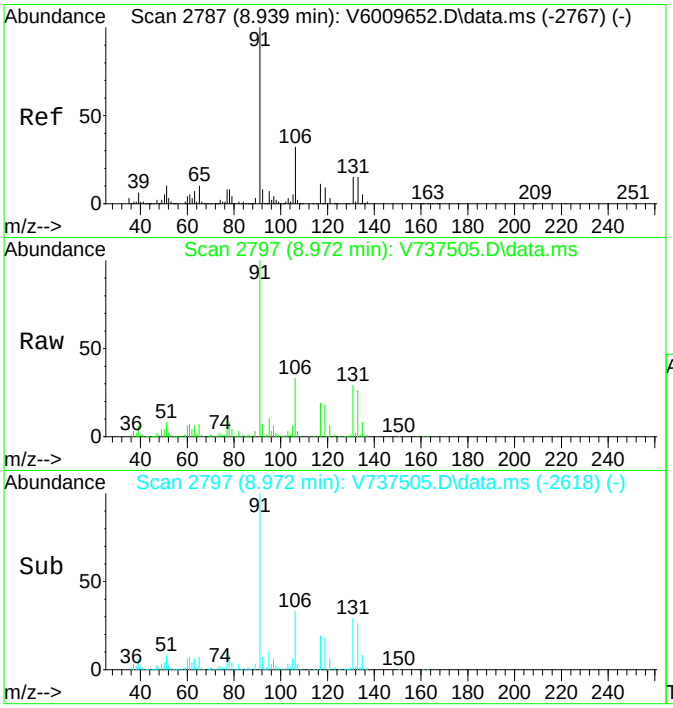


#63
Chlorobenzene
Concen: 10.65 ppb
RT: 8.886 min Scan# 2766
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:112 Resp: 379212

Ion	Ratio	Lower	Upper
112	100		
77	48.7	38.9	80.7
114	32.2	20.5	42.7
50	16.6	17.7	36.9#

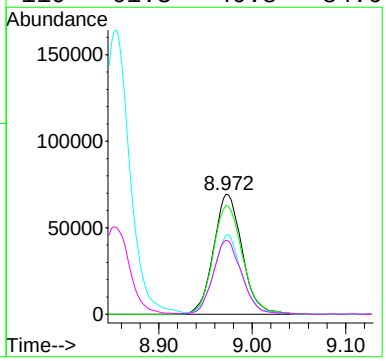


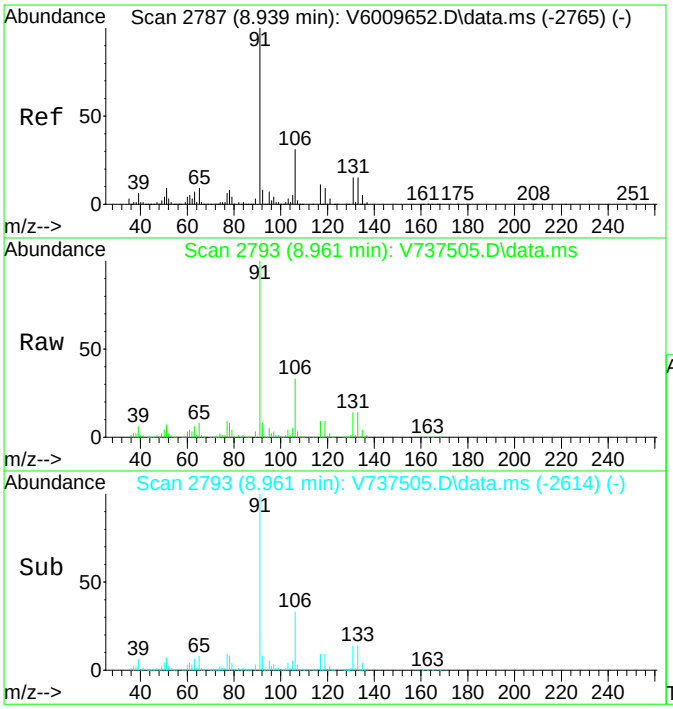


#64
1,1,1,2-tetrachloroethane
Concen: 11.13 ppb
RT: 8.972 min Scan# 2797
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:131 Resp: 148258

Ion	Ratio	Lower	Upper
131	100		
133	93.5	61.5	127.7
117	63.7	42.6	88.6
119	61.3	40.8	84.6

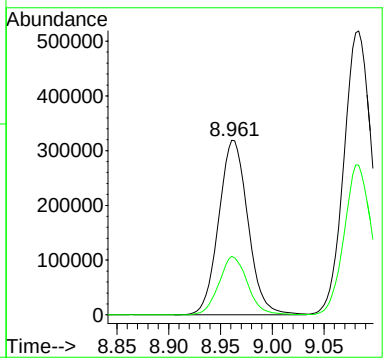


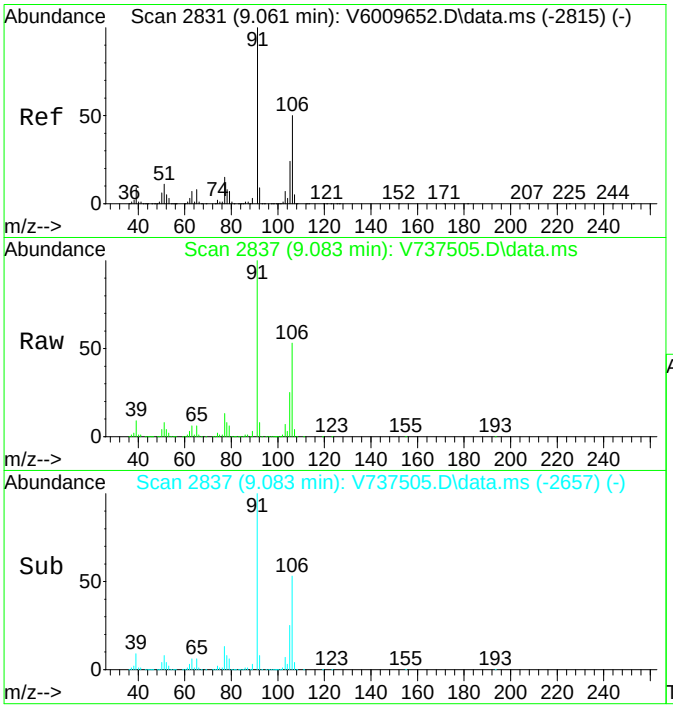


#65
Ethyl Benzene
Concen: 10.98 ppb
RT: 8.961 min Scan# 2793
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 627122

Ion	Ratio	Lower	Upper
91	100		
106	32.7	20.0	41.6

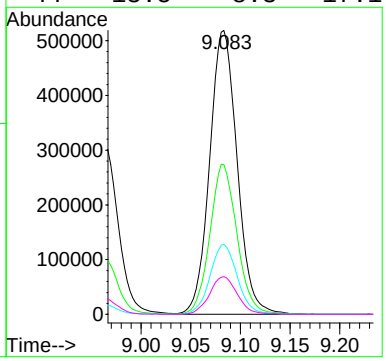


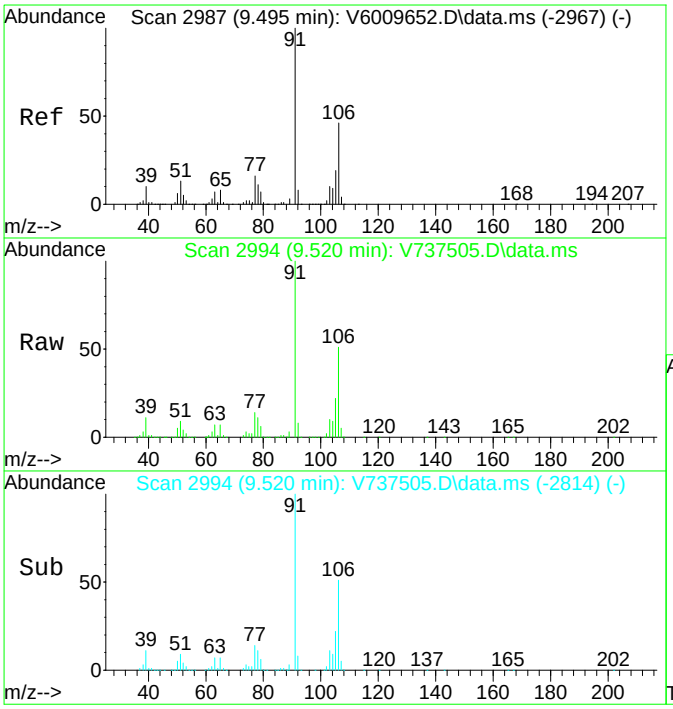


#66
p- & m-Xylenes
Concen: 22.30 ppb
RT: 9.083 min Scan# 2837
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 999109

Ion	Ratio	Lower	Upper
91	100		
106	52.1	31.3	65.1
105	24.5	14.2	29.4
77	13.5	8.3	17.1

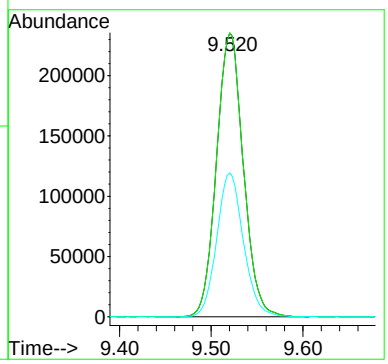


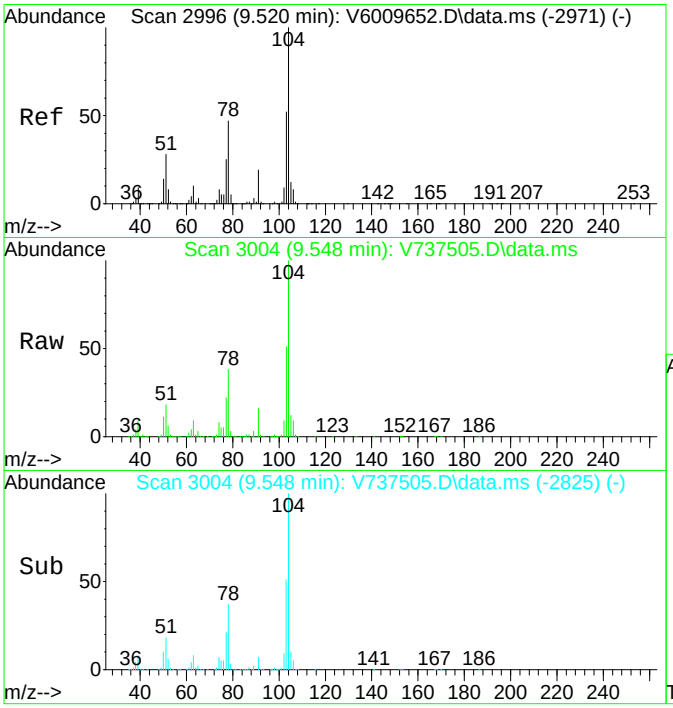


#67
o-Xylene
Concen: 11.20 ppb
RT: 9.520 min Scan# 2994
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 478007

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	50.5	22.7	68.1

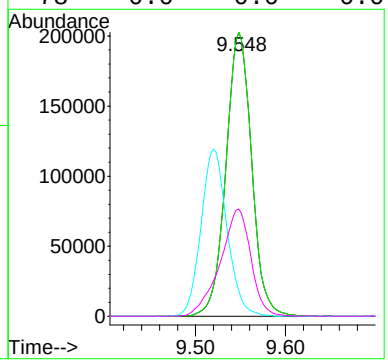


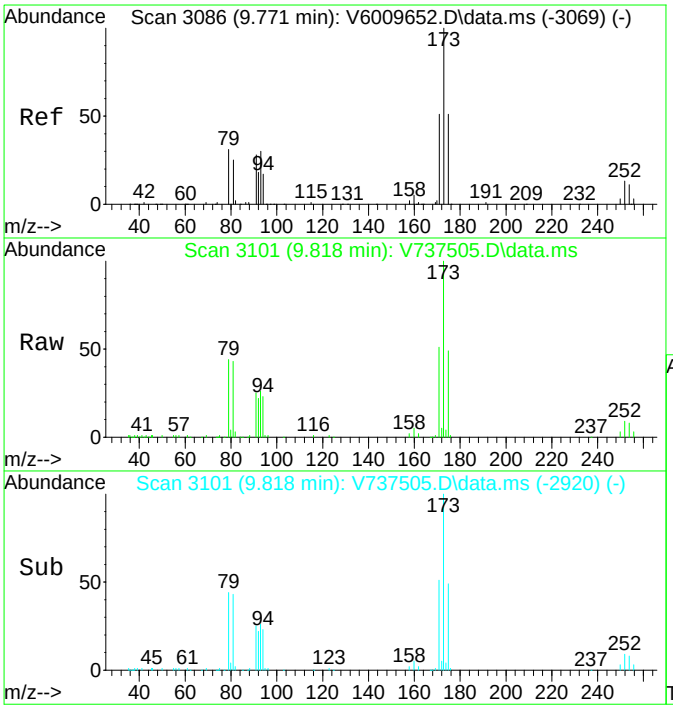


#68
Styrene
Concen: 11.13 ppb
RT: 9.548 min Scan# 3004
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:104 Resp: 403633

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
106	0.0	0.0	0.0
78	0.0	0.0	0.0

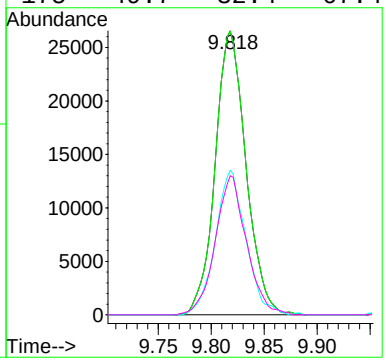


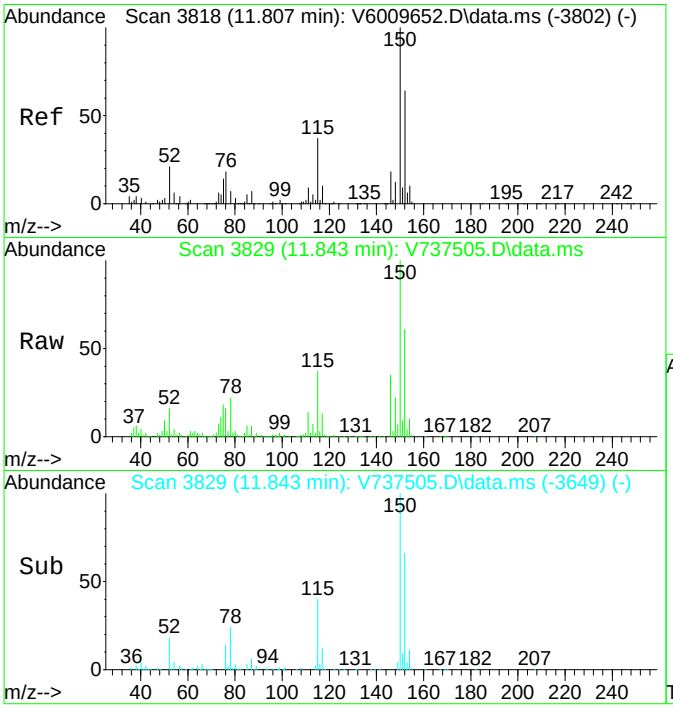


#69
Bromoform
Concen: 10.21 ppb
RT: 9.818 min Scan# 3101
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:173 Resp: 53758

Ion	Ratio	Lower	Upper
173	100		
173	100.0	80.0	120.0
171	0.0	0.0	0.0
175	49.7	32.4	67.4

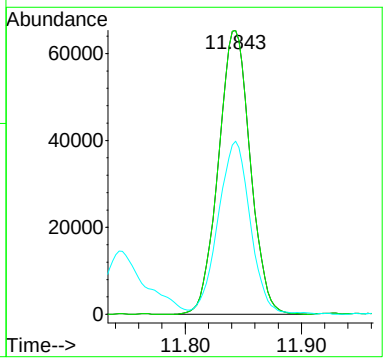


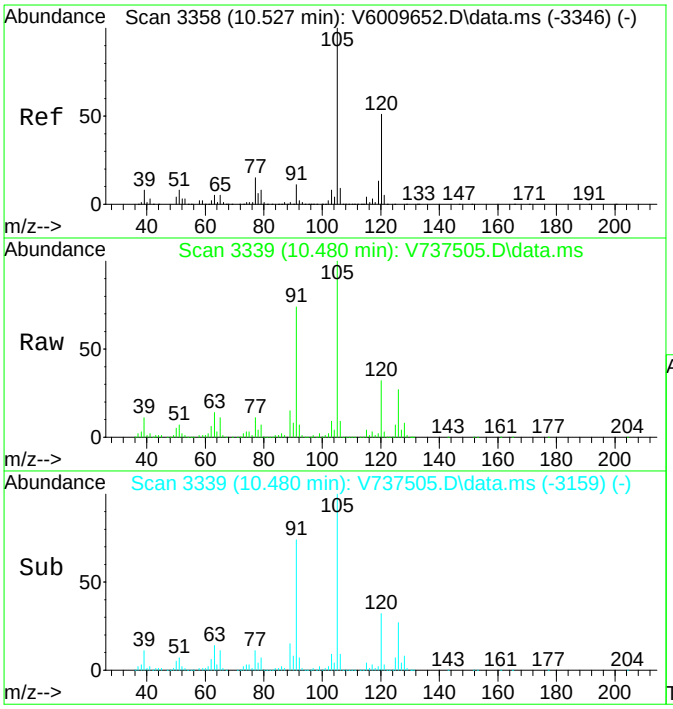


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:152 Resp: 124396

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.9	33.7	101.0

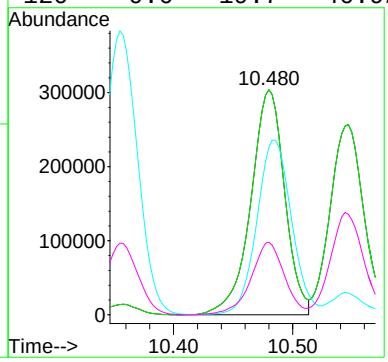


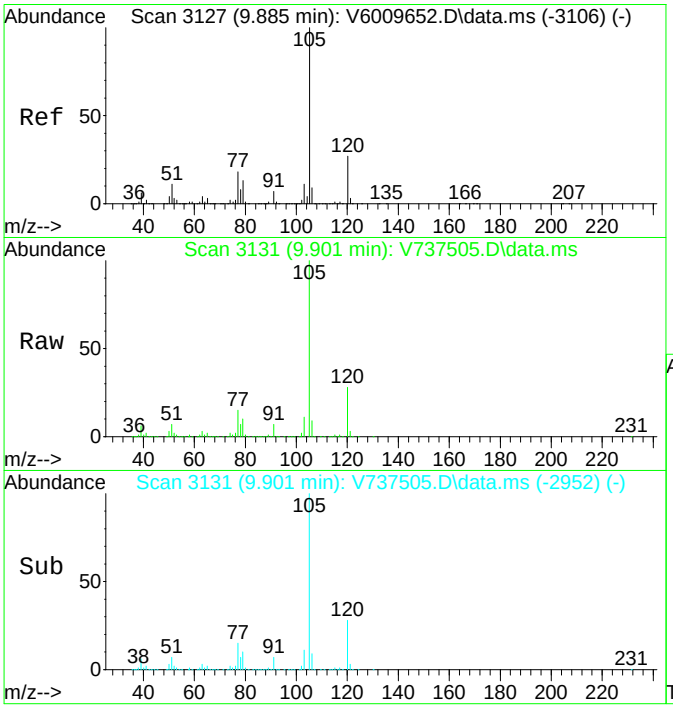


#71
p-Ethyltoluene
Concen: 10.87 ppb
RT: 10.480 min Scan# 3339
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:105 Resp: 601660

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
91	0.0	0.0	0.0
120	0.0	19.7	40.9#

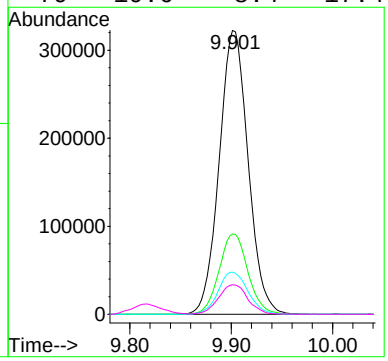


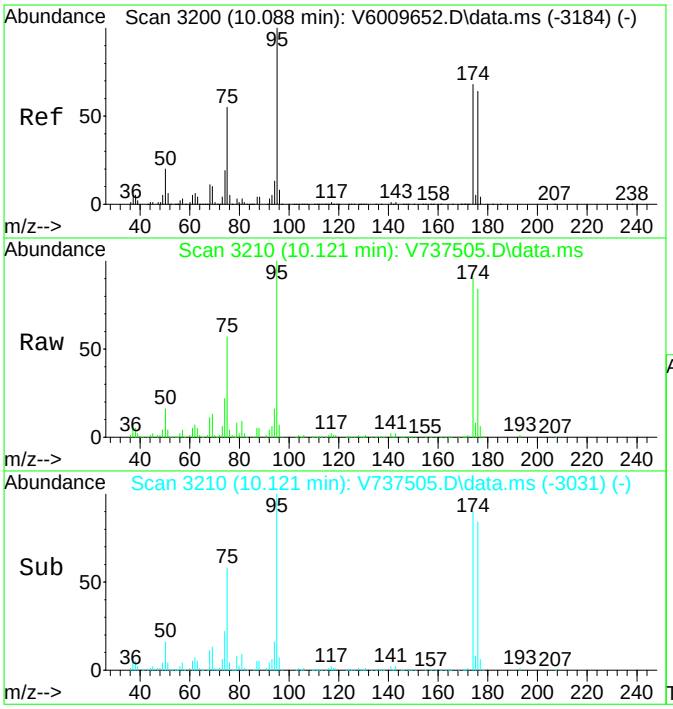


#72
Isopropylbenzene
Concen: 11.01 ppb
RT: 9.901 min Scan# 3131
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:105 Resp: 639160

Ion	Ratio	Lower	Upper
105	100		
120	28.3	17.6	36.6
77	15.3	10.1	20.9
79	10.6	8.4	17.4

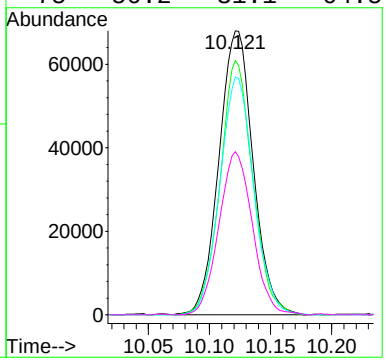


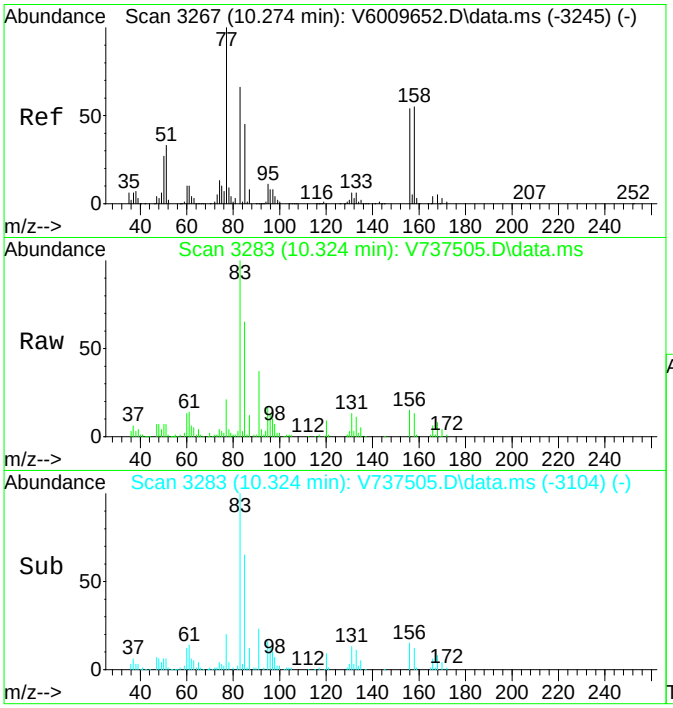


#73
p-Bromofluorobenzene (SURR)
Concen: 10.59 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 95 Resp: 132453

Ion	Ratio	Lower	Upper
95	100		
174	85.5	49.1	102.1
176	82.9	47.7	99.1
75	56.2	31.1	64.5

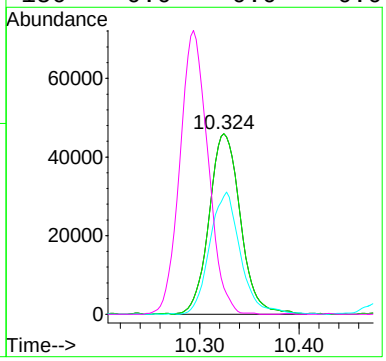


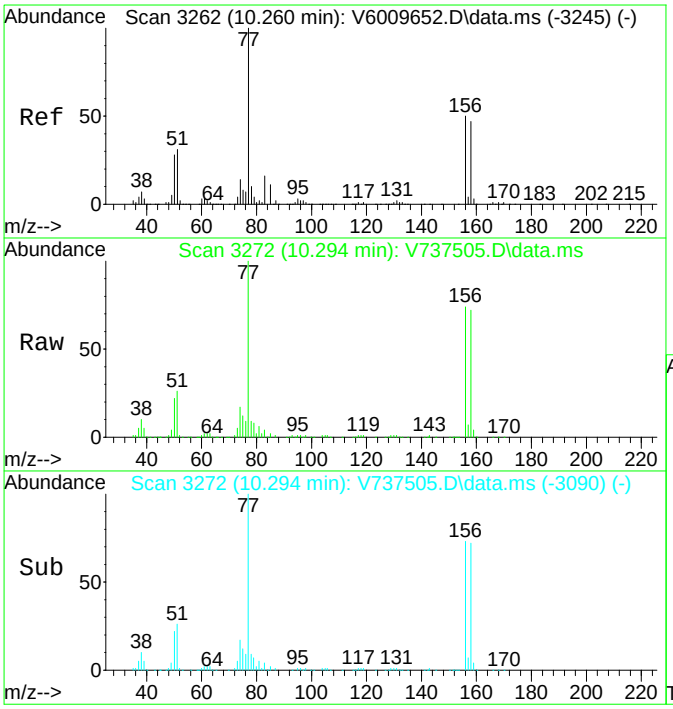


#74
1,1,2,2-Tetrachloroethane
Concen: 10.64 ppb
RT: 10.324 min Scan# 3283
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 83 Resp: 101051

Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
85	66.3	42.1	87.5
156	0.0	0.0	0.0

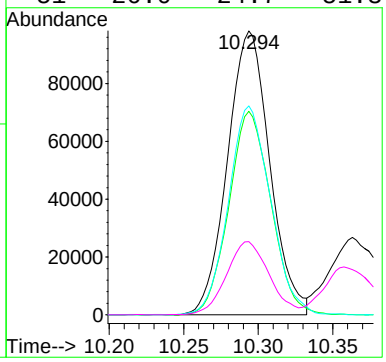


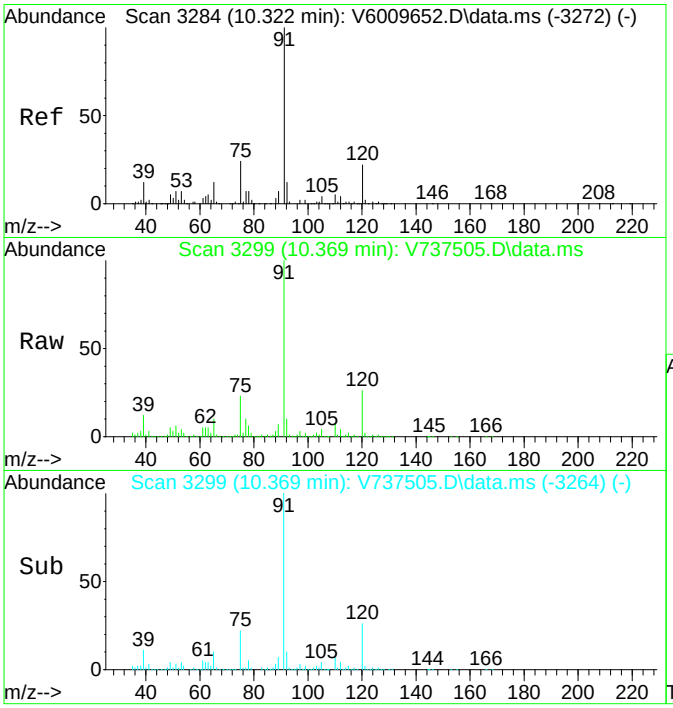


#75
Bromobenzene
Concen: 11.24 ppb
RT: 10.294 min Scan# 3272
Delta R.T. 0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 77 Resp: 194195

Ion	Ratio	Lower	Upper
77	100		
158	71.1	37.2	77.4
156	73.2	38.9	80.7
51	26.0	24.7	51.3

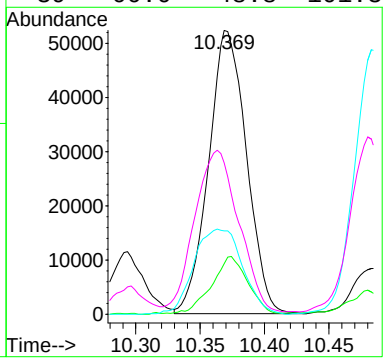


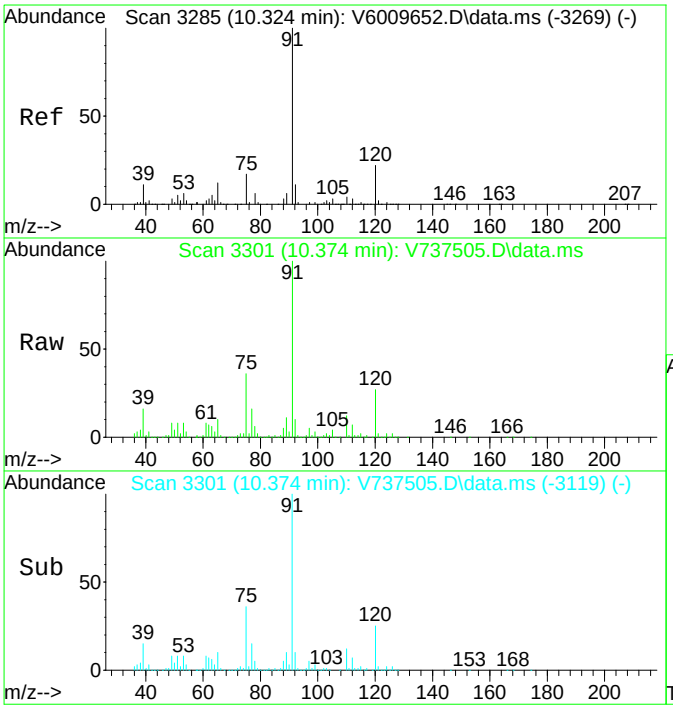


#76
trans-1,4-Dichloro-2-butene
Concen: 11.38 ppb
RT: 10.369 min Scan# 3299
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 75 Resp: 107138

Ion	Ratio	Lower	Upper
75	100		
53	18.9	21.8	45.4#
89	38.6	20.8	43.2
39	66.0	48.8	101.3

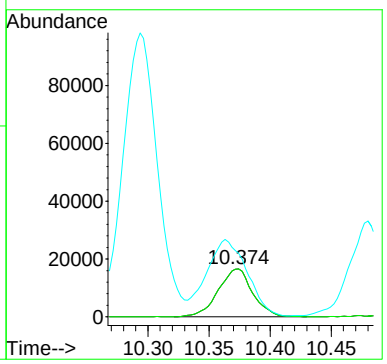


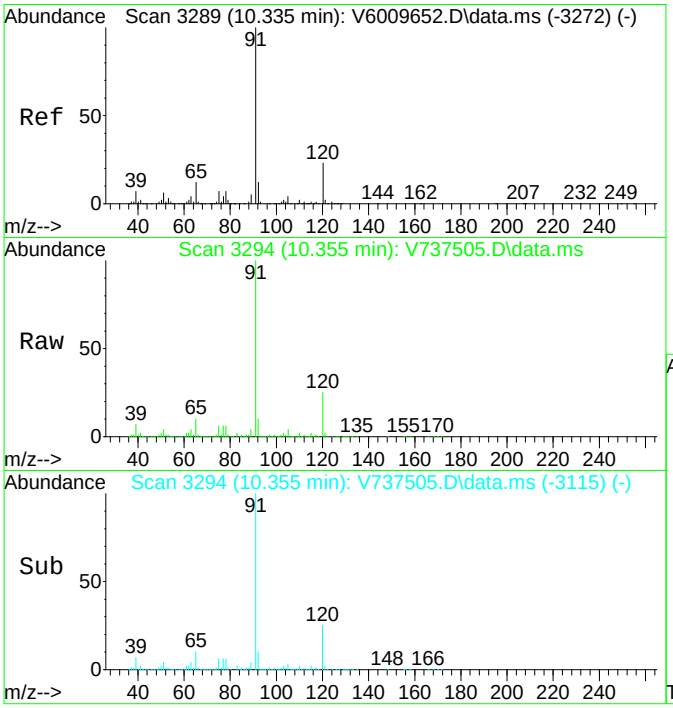


#77
1,2,3-Trichloropropane
Concen: 11.09 ppb
RT: 10.374 min Scan# 3301
Delta R.T. 0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:110 Resp: 32386

Ion	Ratio	Lower	Upper
110	100		
110	100.0	80.0	120.0
77	189.3	113.1	339.4

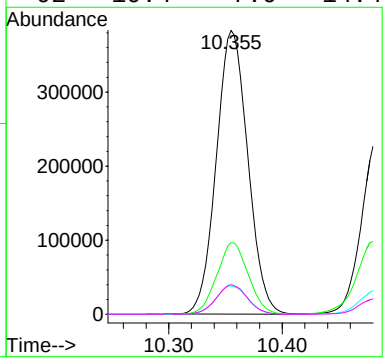


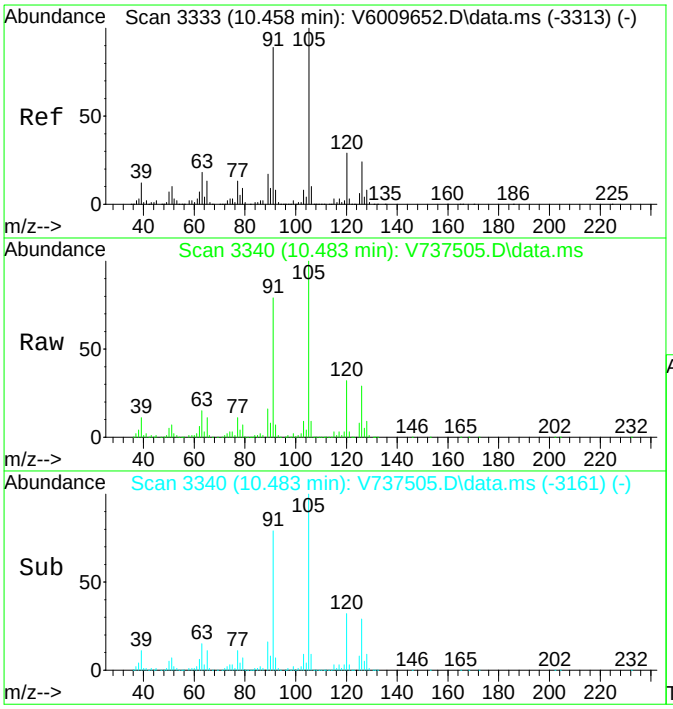


#78
n-Propylbenzene
Concen: 11.24 ppb
RT: 10.355 min Scan# 3294
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 739735

Ion	Ratio	Lower	Upper
91	100		
120	25.4	14.8	30.8
65	10.3	7.0	14.4
92	10.4	7.0	14.4

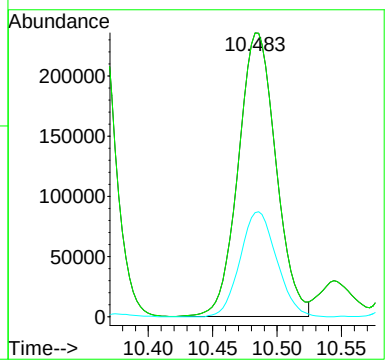


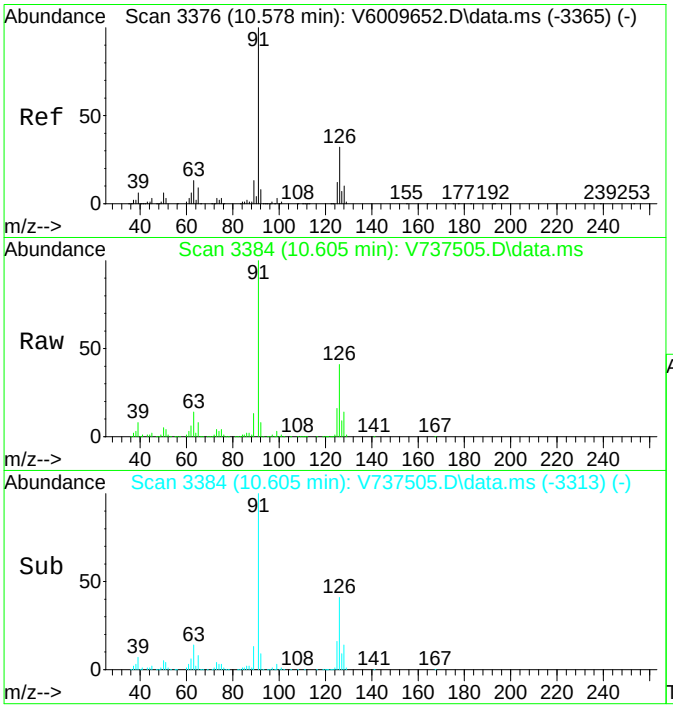


#79
2-Chlorotoluene
Concen: 11.06 ppb
RT: 10.483 min Scan# 3340
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 479384

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
126	36.0	18.1	37.7

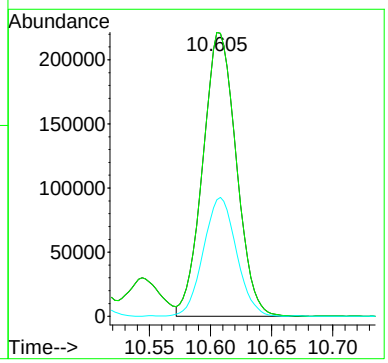


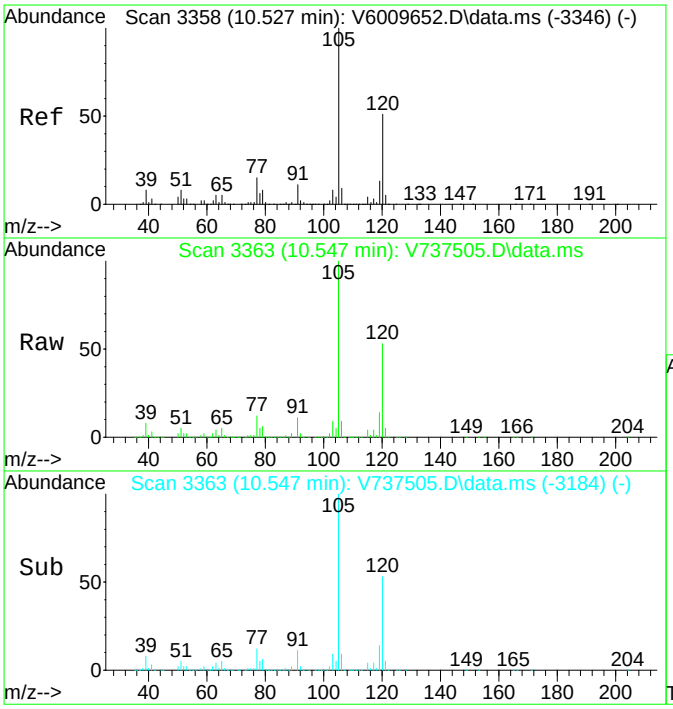


#80
4-Chlorotoluene
Concen: 11.28 ppb
RT: 10.605 min Scan# 3384
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 420608

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
126	41.5	16.0	47.9

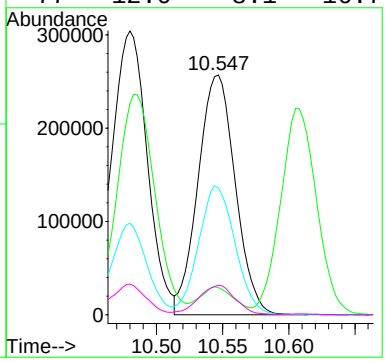


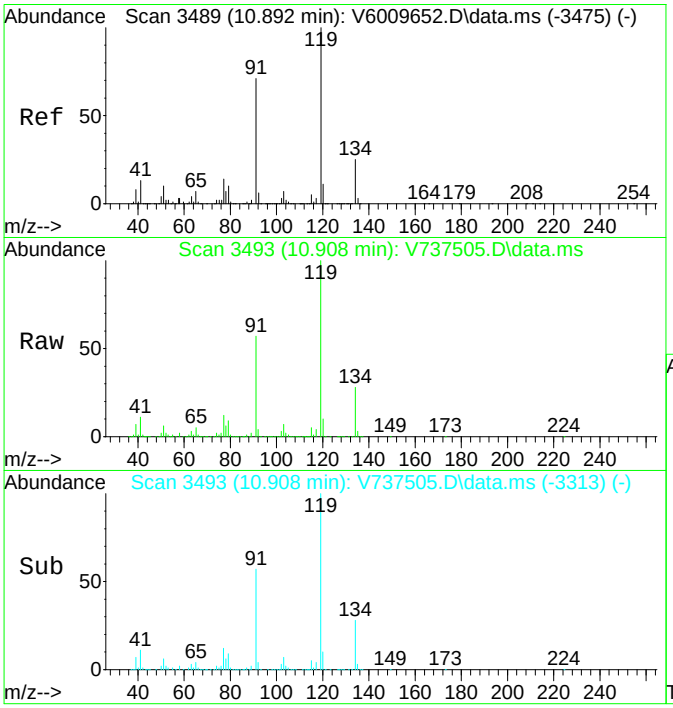


#81
1,3,5-Trimethylbenzene
Concen: 11.04 ppb
RT: 10.547 min Scan# 3363
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:105 Resp: 501485

Ion	Ratio	Lower	Upper
105	100		
91	10.9	6.8	14.2
120	52.9	32.6	67.6
77	12.0	8.1	16.7

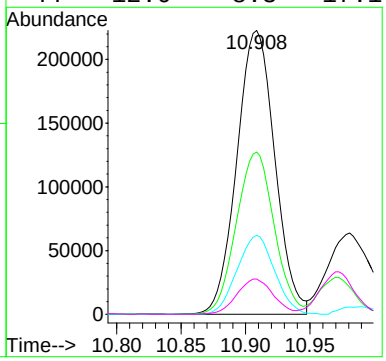


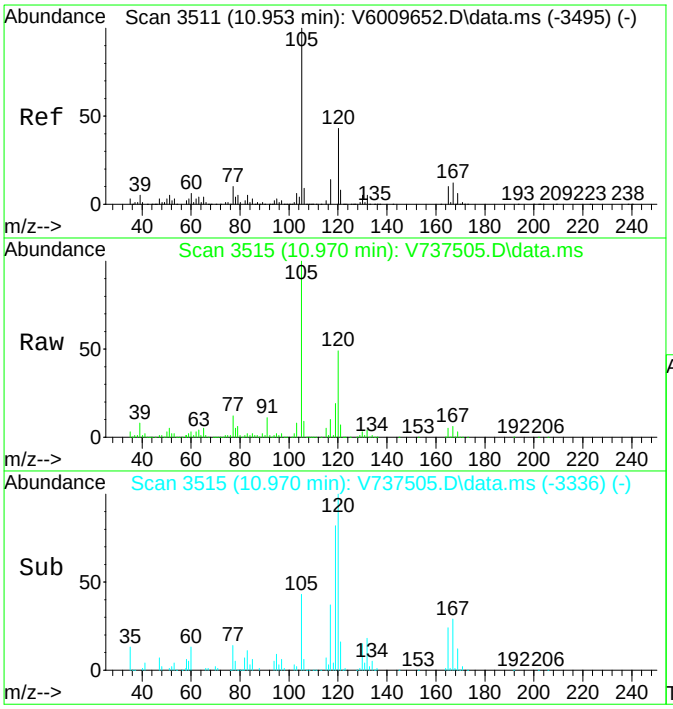


#82
tert-Butylbenzene
Concen: 11.32 ppb
RT: 10.908 min Scan# 3493
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:119 Resp: 458118

Ion	Ratio	Lower	Upper
119	100		
91	56.7	44.3	91.9
134	27.4	15.9	33.1
77	12.0	8.3	17.1

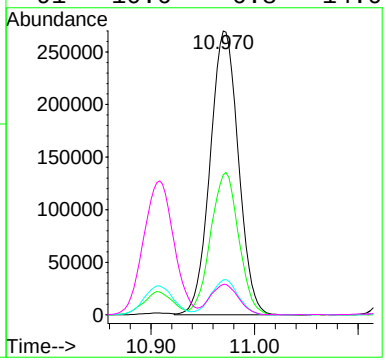


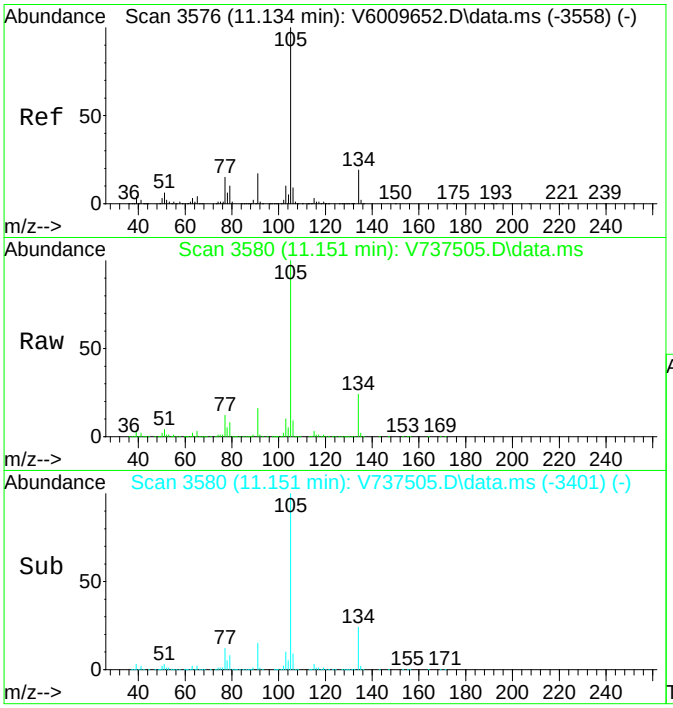


#83
1,2,4-Trimethylbenzene
Concen: 11.05 ppb
RT: 10.970 min Scan# 3515
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:105 Resp: 511071

Ion	Ratio	Lower	Upper
105	100		
120	50.1	30.7	63.7
77	12.1	8.0	16.6
91	10.6	6.8	14.0

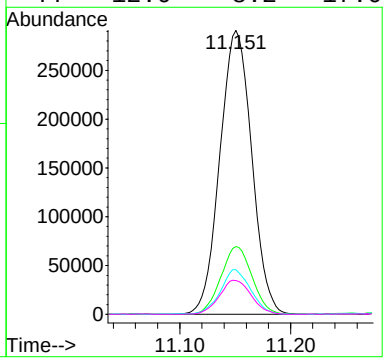


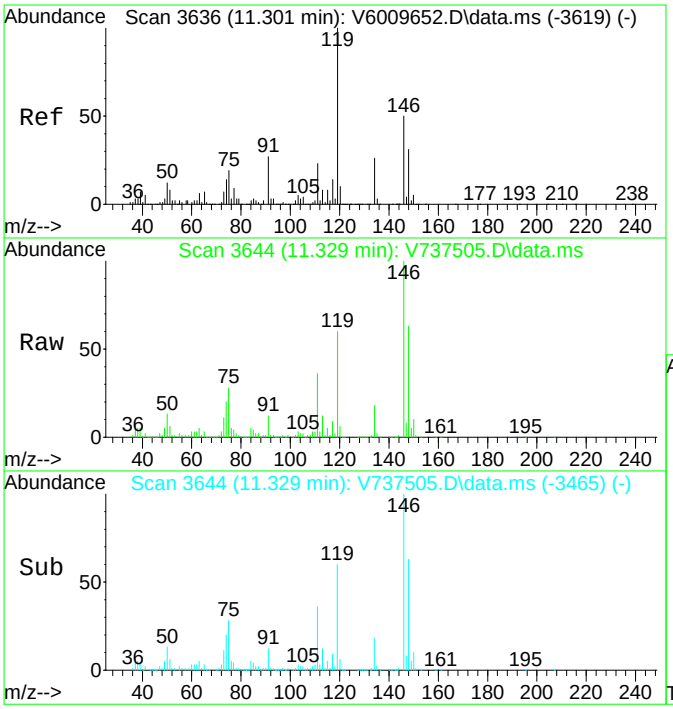


#84
sec-Butylbenzene
Concen: 11.44 ppb
RT: 11.151 min Scan# 3580
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:105 Resp: 581474

Ion	Ratio	Lower	Upper
105	100		
134	23.4	13.5	28.1
91	15.0	10.7	22.1
77	12.0	8.2	17.0

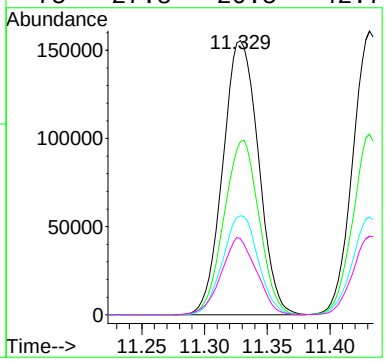


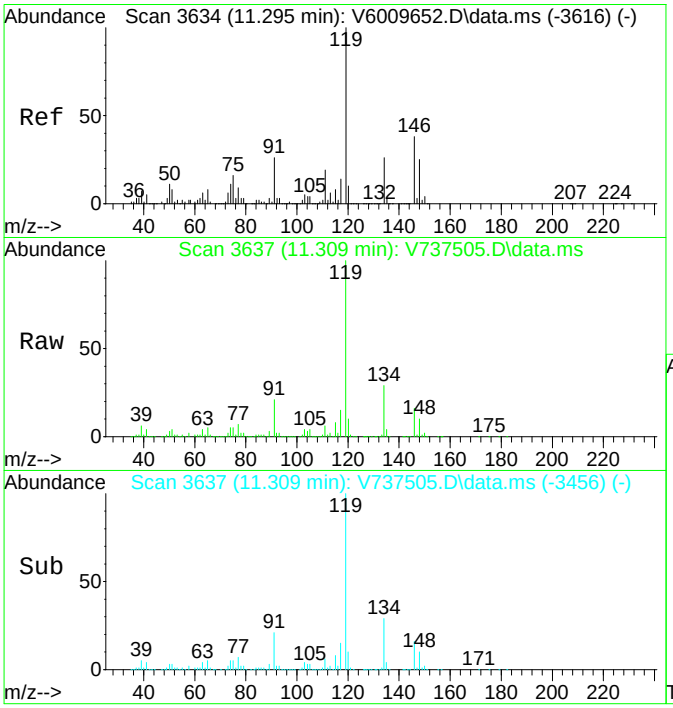


#85
1,3-Dichlorobenzene
Concen: 10.88 ppb
RT: 11.329 min Scan# 3644
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:146 Resp: 307203

Ion	Ratio	Lower	Upper
146	100		
148	62.6	41.7	86.5
111	35.9	27.2	56.6
75	27.8	20.5	42.7

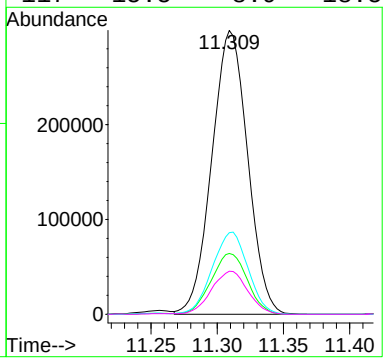


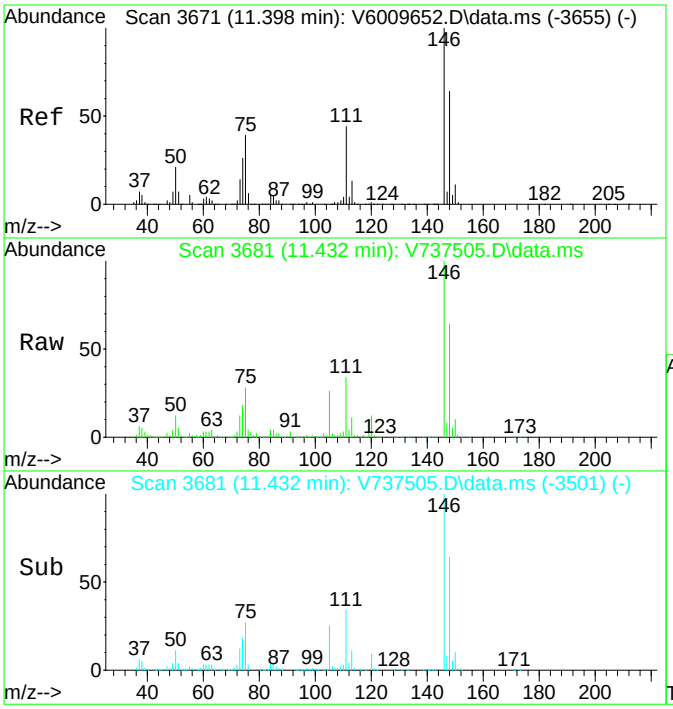


#86
p-Isopropyltoluene
Concen: 11.05 ppb
RT: 11.309 min Scan# 3637
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:119 Resp: 562953

Ion	Ratio	Lower	Upper
119	100		
91	21.7	15.8	32.8
134	29.0	17.6	36.6
117	15.5	8.9	18.5

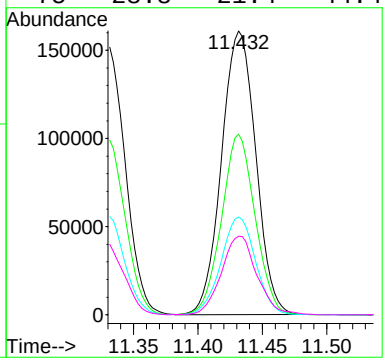


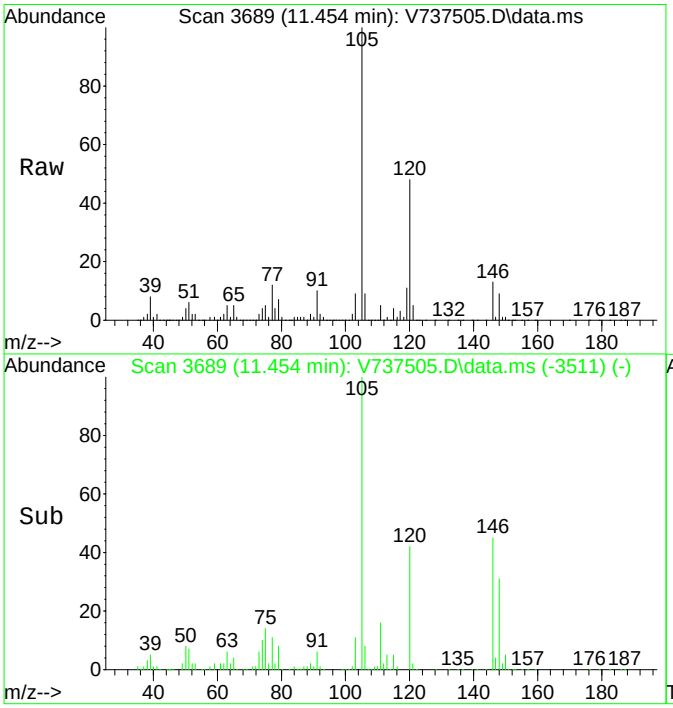


#87
1,4-Dichlorobenzene
Concen: 10.64 ppb
RT: 11.432 min Scan# 3681
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:146 Resp: 297515

Ion	Ratio	Lower	Upper
146	100		
148	62.5	41.0	85.2
111	34.6	26.3	54.7
75	28.8	21.4	44.4

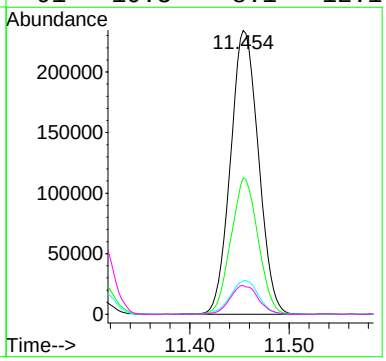


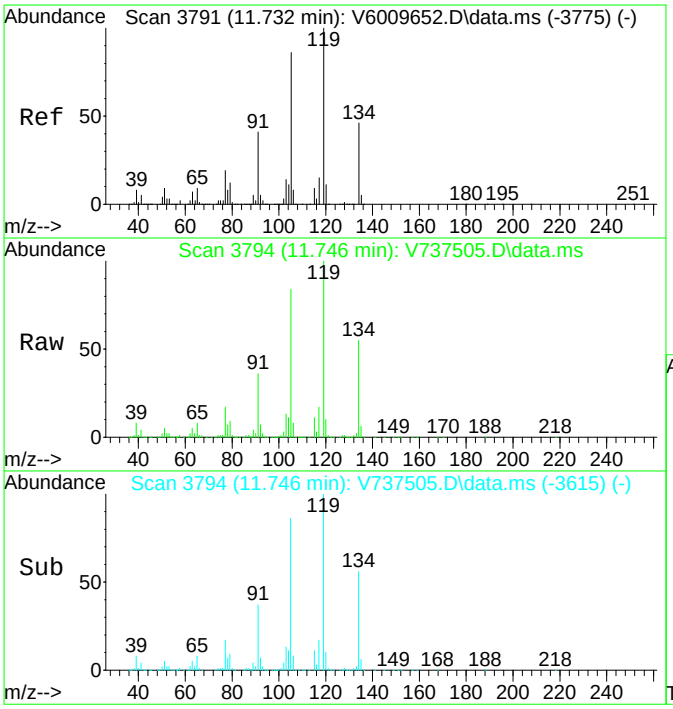


#88
1,2,3-Trimethylbenzene
Concen: 10.61 ppb
RT: 11.454 min Scan# 3689
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:105 Resp: 458790

Ion	Ratio	Lower	Upper
105	100		
120	46.7	34.3	51.5
77	12.2	9.8	14.8
91	10.3	8.1	12.1

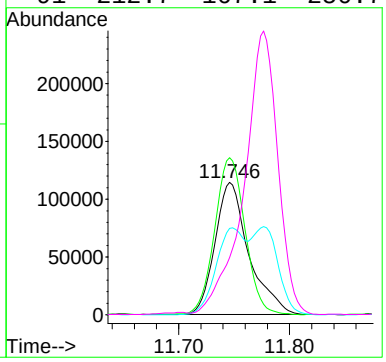


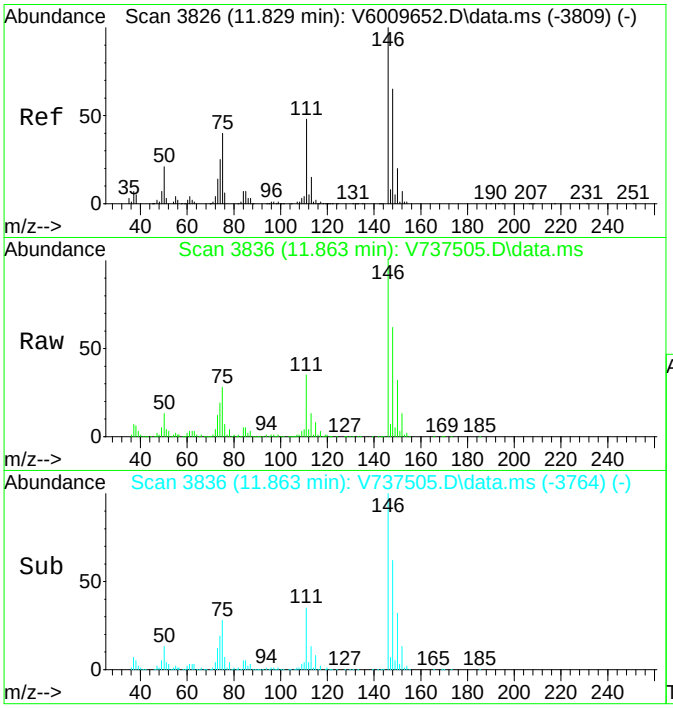


#89
p-Diethylbenzene
Concen: 11.30 ppb
RT: 11.746 min Scan# 3794
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:105 Resp: 242929

Ion	Ratio	Lower	Upper
105	100		
119	106.7	83.7	125.5
134	58.0	35.5	73.7
91	212.7	167.1	250.7

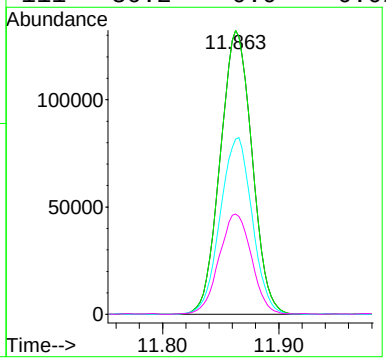


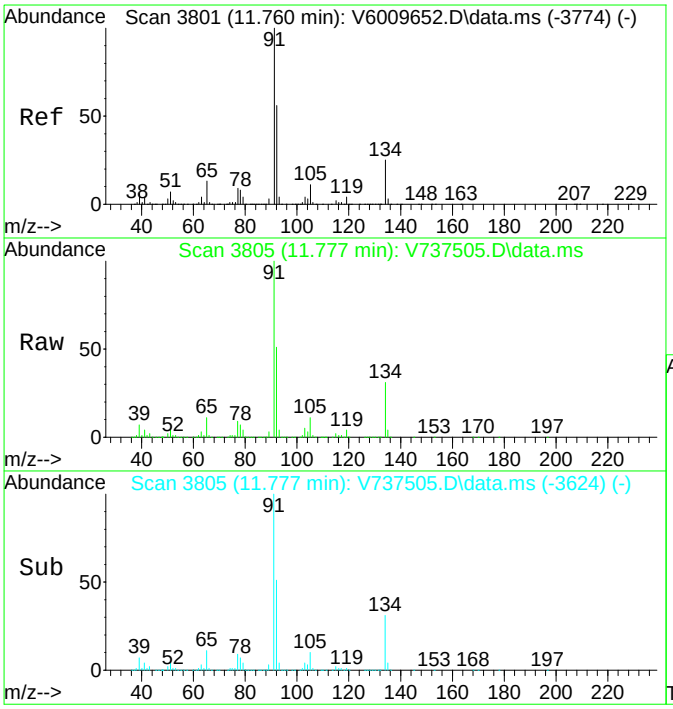


#90
1,2-Dichlorobenzene
Concen: 10.73 ppb
RT: 11.863 min Scan# 3836
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:146 Resp: 251359

Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	0.0	41.6	86.4#
111	36.2	0.0	0.0#

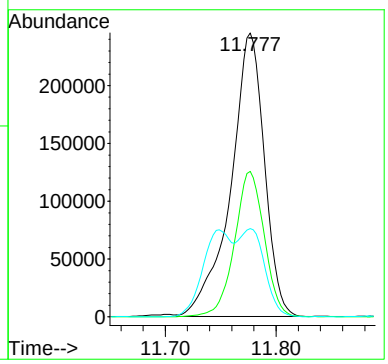


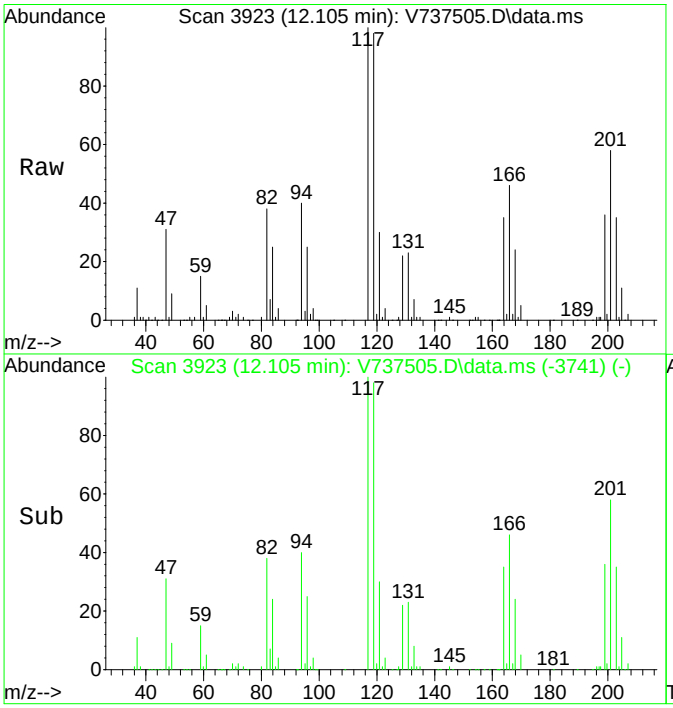


#91
n-Butylbenzene
Concen: 14.96 ppb
RT: 11.777 min Scan# 3805
Delta R.T. 0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 91 Resp: 516775

Ion	Ratio	Lower	Upper
91	100		
92	45.5	30.9	64.1
134	27.3	17.0	35.4

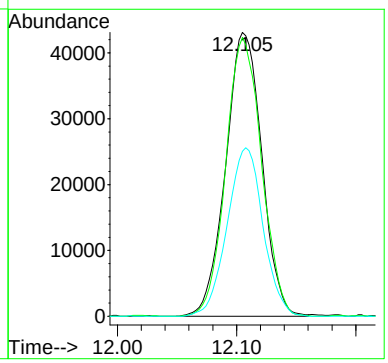


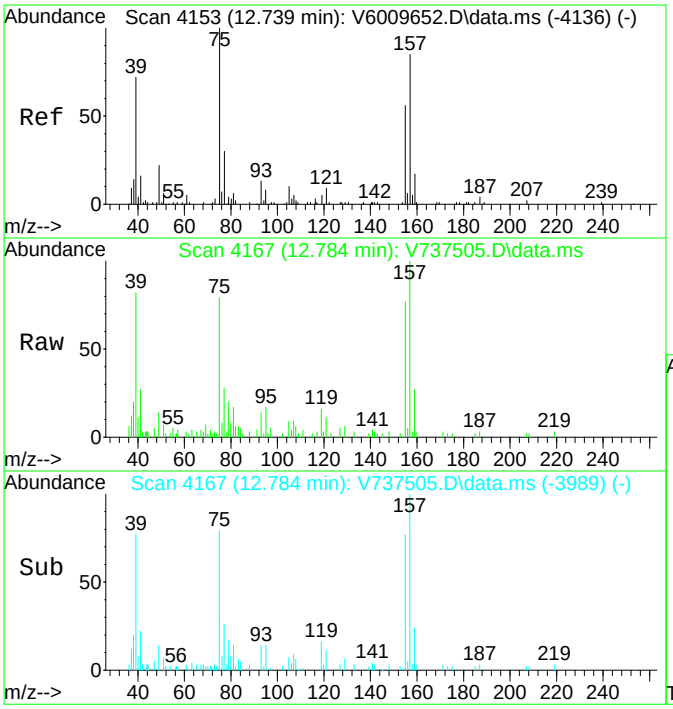


#92
Hexachloroethane
Concen: 10.85 ppb
RT: 12.105 min Scan# 3923
Delta R.T. 0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:117 Resp: 91220

Ion	Ratio	Lower	Upper
117	100		
119	97.2	78.3	117.5
201	58.9	66.1	99.1#

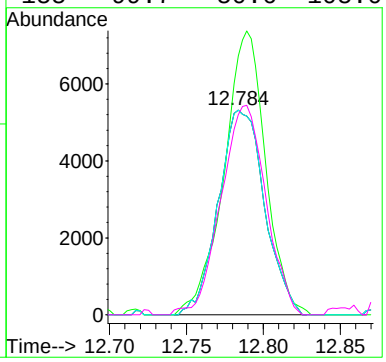


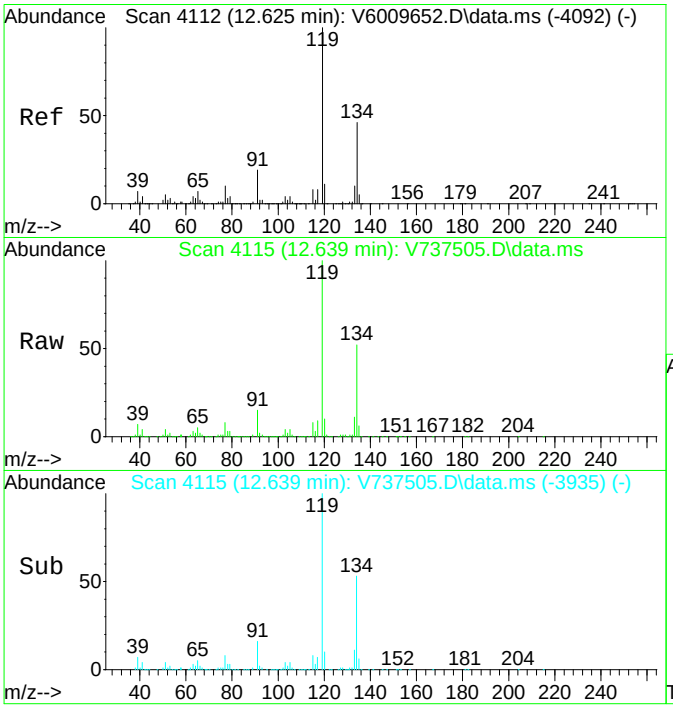


#93
1,2-Dibromo-3-chloropropane
Concen: 10.30 ppb
RT: 12.784 min Scan# 4167
Delta R.T. -0.006 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 75 Resp: 11097

Ion	Ratio	Lower	Upper
75	100		
157	125.0	80.2	120.2#
75	100.0	65.0	135.0
155	99.7	50.6	105.0

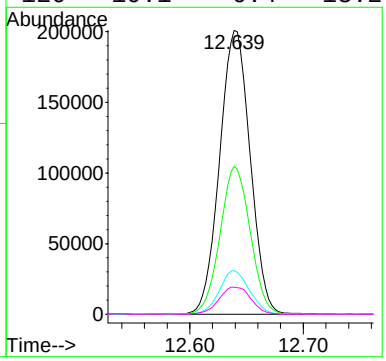


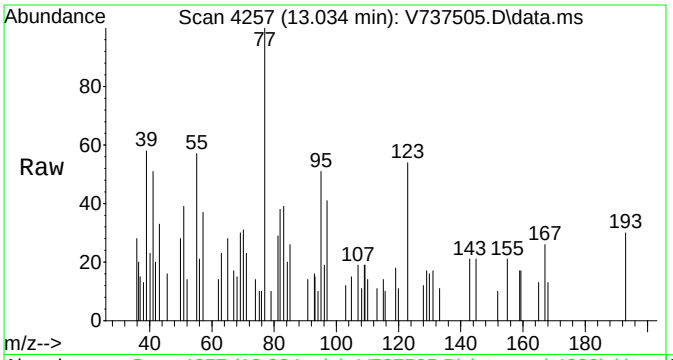


#94
1,2,4,5-Tetramethylbenzene
Concen: 10.88 ppb
RT: 12.639 min Scan# 4115
Delta R.T. 0.000 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:119 Resp: 376682

Ion	Ratio	Lower	Upper
119	100		
134	51.5	31.2	64.8
91	15.0	10.5	21.7
120	10.1	6.4	13.2

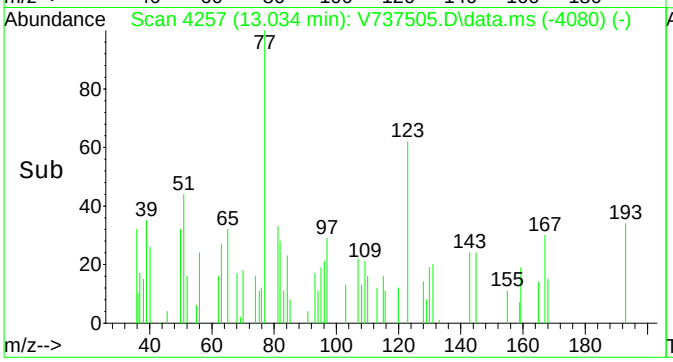


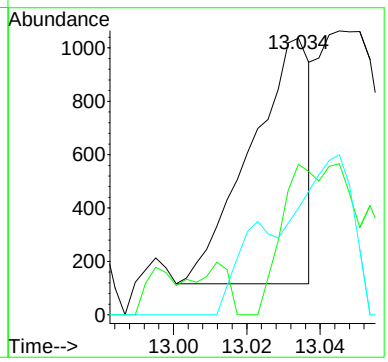


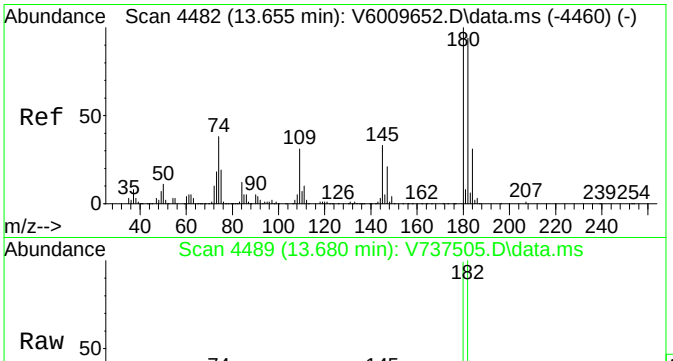
#95
Nitrobenzene
Concen: 5.95 ppb
RT: 13.034 min Scan# 4257
Delta R.T. -0.008 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion: 77 Resp: 1039

Ion	Ratio	Lower	Upper
77	100		
123	39.8	30.3	45.5
51	58.4	40.8	61.2



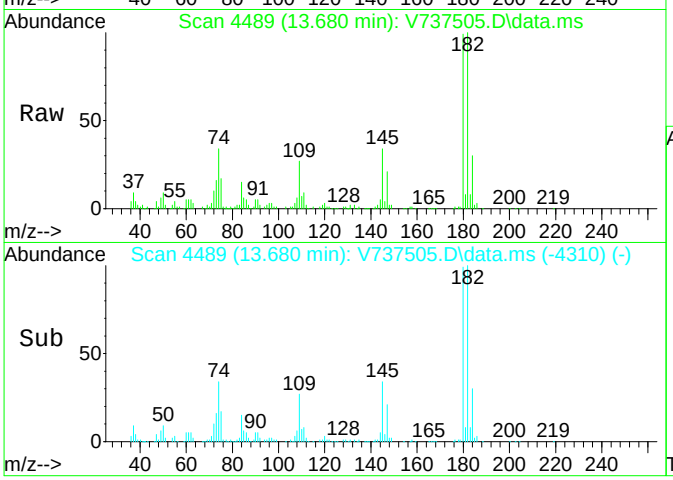


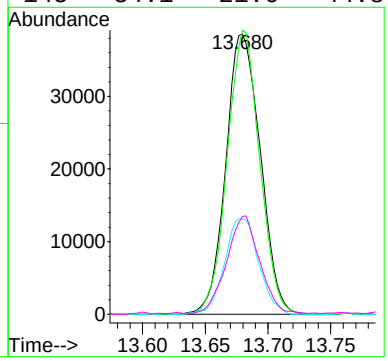


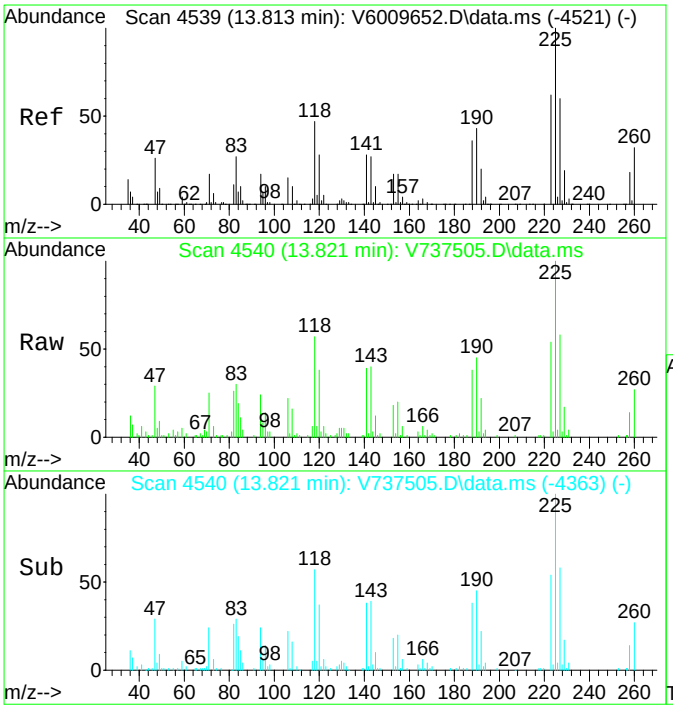
#96
1,2,4-Trichlorobenzene
Concen: 9.07 ppb
RT: 13.680 min Scan# 4489
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:180 Resp: 73995

Ion	Ratio	Lower	Upper
180	100		
182	95.2	62.1	129.1
74	33.8	20.0	41.6
145	34.1	21.6	44.8



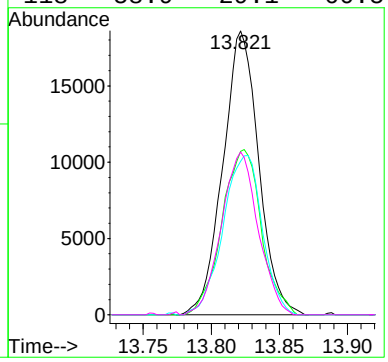


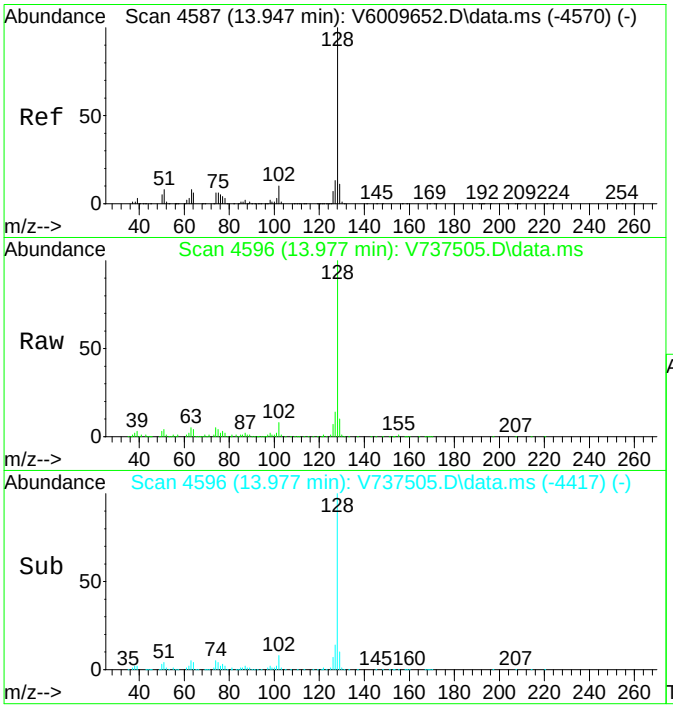


#97
Hexachloro-1,3-Butadiene
Concen: 10.33 ppb
RT: 13.821 min Scan# 4540
Delta R.T. -0.008 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:225 Resp: 34091

Ion	Ratio	Lower	Upper
225	100		
227	64.0	41.6	86.4
223	61.5	40.8	84.6
118	58.9	29.1	60.5

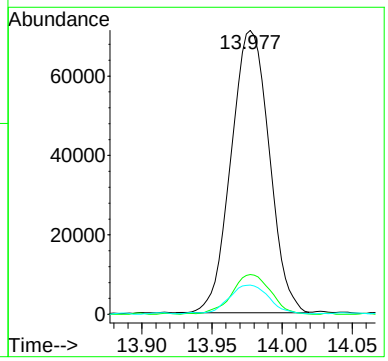


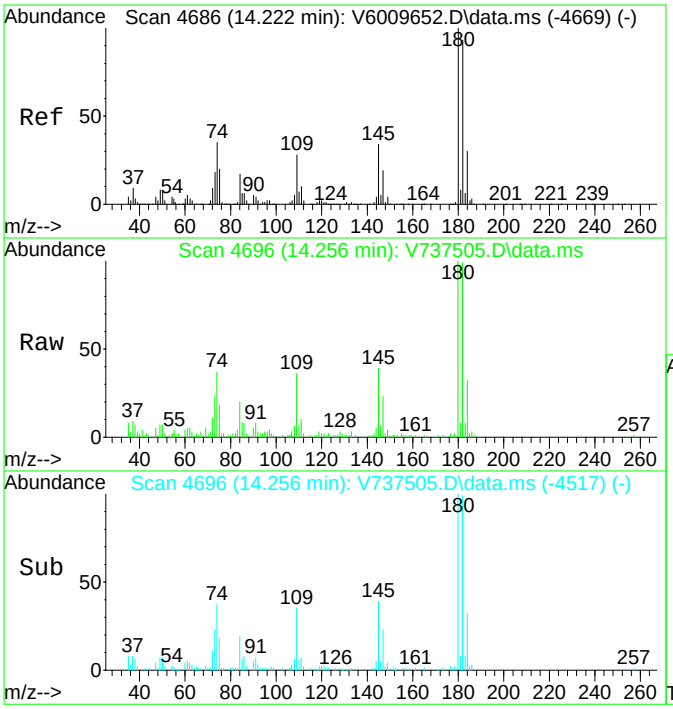


#98
Naphthalene
Concen: 8.91 ppb
RT: 13.977 min Scan# 4596
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:128 Resp: 134200

Ion	Ratio	Lower	Upper
128	100		
127	14.5	8.3	17.1
129	10.5	7.1	14.7

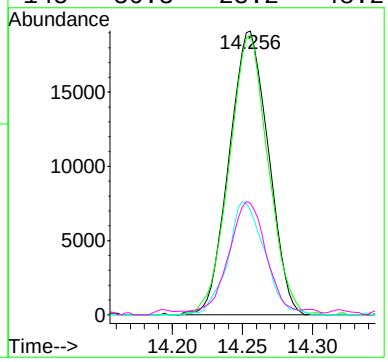




#99
1,2,3-Trichlorobenzene
Concen: 7.62 ppb
RT: 14.256 min Scan# 4696
Delta R.T. -0.003 min
Lab File: V737505.D
Acq: 22 Dec 2019 2:33 pm

Tgt Ion:180 Resp: 37134

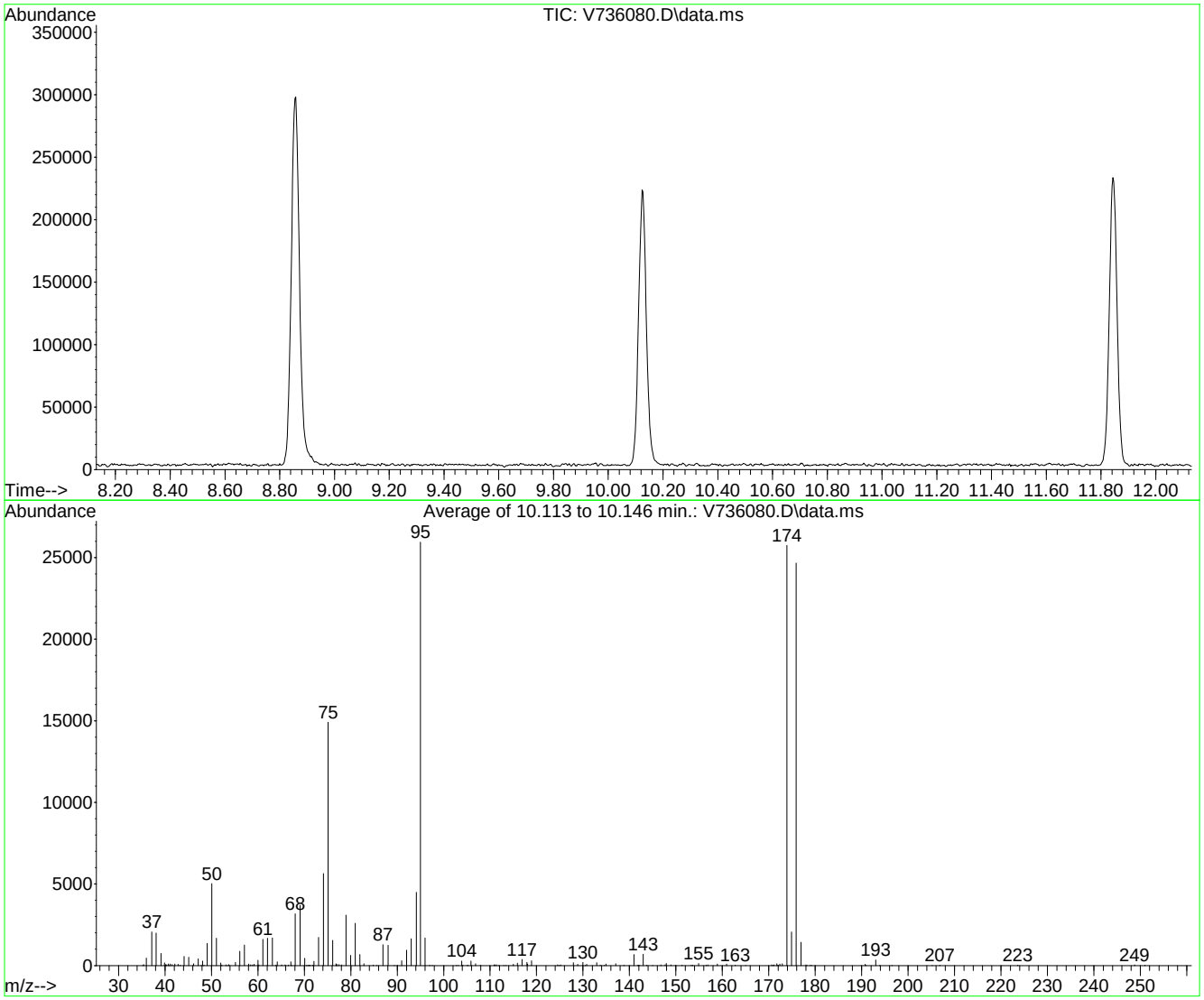
Ion	Ratio	Lower	Upper
180	100		
182	97.4	62.0	128.8
74	37.5	18.9	39.1
145	36.3	23.2	48.2



Data Path : C:\msdchem\1\data\V7101819\
Data File : V736080.D
Acq On : 18 Oct 2019 2:48 pm
Operator : SS
Sample : SEQ-TUN1
Sample : SEQ-TUN1 Inst : MSVOA7
Misc : QBV7101819A
ALS Vial : 11 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\V7LO0136.M
Title : Volatile Organics EPA 8260C
Last Update : Mon Oct 21 11:26:11 2019



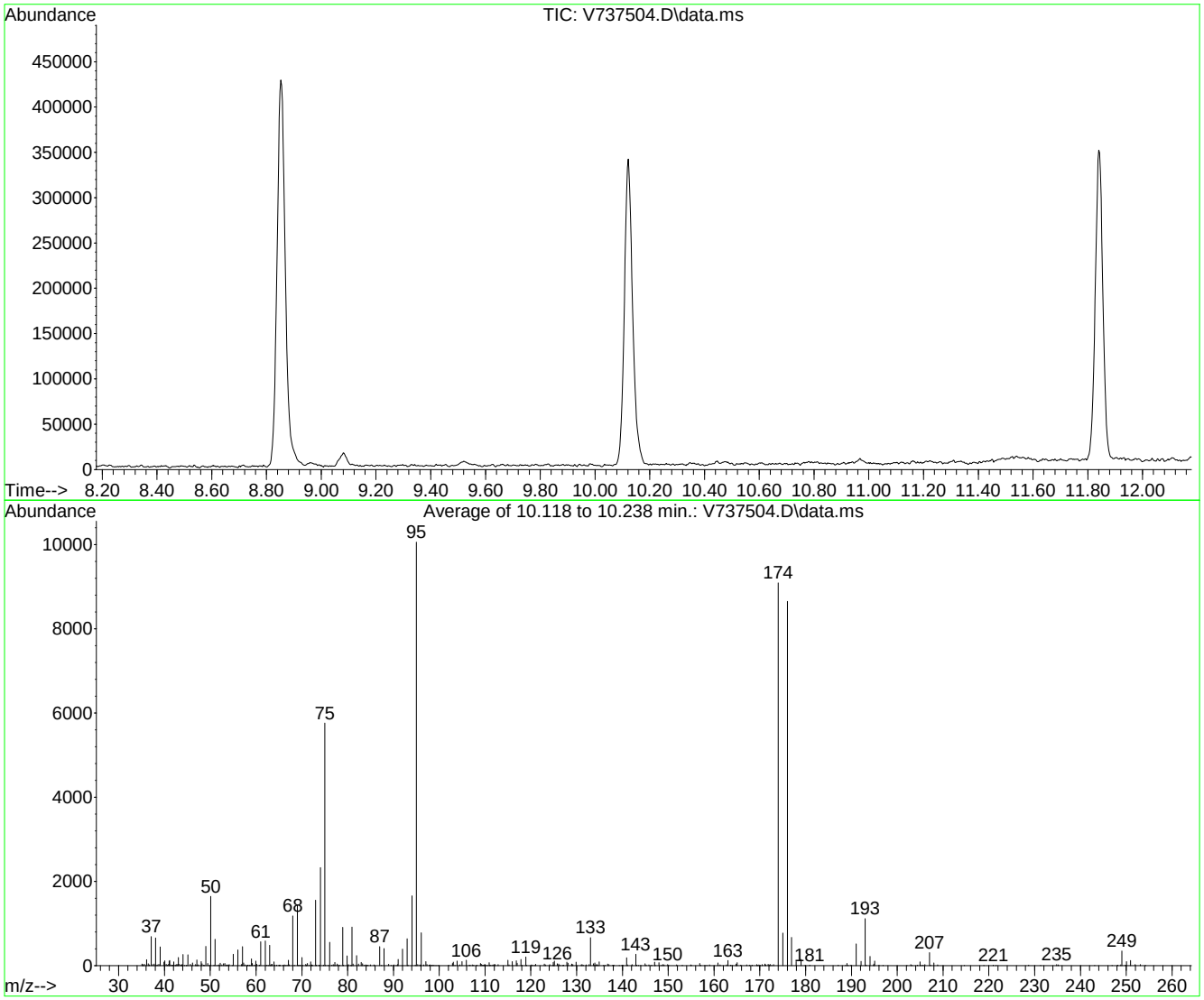
Spectrum Information: Average of 10.113 to 10.146 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	5019	PASS
75	95	30	60	57.5	14914	PASS
95	95	100	100	100.0	25941	PASS
96	95	5	9	6.5	1696	PASS
173	174	0.00	2	0.5	116	PASS
174	95	50	100	99.2	25742	PASS
175	174	5	9	8.0	2054	PASS
176	174	95	101	95.8	24673	PASS
177	176	5	9	5.8	1422	PASS

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737504.D
Acq On : 22 Dec 2019 1:57 pm
Operator : SS
Sample : SEQ-TUN1
Sample : SEQ-TUN1 Inst : MSVOA7
Misc : QBV7122219A
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\methods\V7LO0138.M
Title : Volatile Organics EPA 8260C
Last Update : Mon Dec 16 10:09:48 2019



Spectrum Information: Average of 10.118 to 10.238 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	1645	PASS
75	95	30	60	57.3	5759	PASS
95	95	100	100	100.0	10056	PASS
96	95	5	9	7.7	775	PASS
173	174	0.00	2	0.3	24	PASS
174	95	50	100	90.4	9091	PASS
175	174	5	9	8.5	770	PASS
176	174	95	101	95.2	8654	PASS
177	176	5	9	7.7	670	PASS

METHOD BLANK RAW DATA

SDG: 19L0677
CLASS: VOA
METHOD: EPA 8260C

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	BL91221-BLK1	File ID:	V737511.D
Prepared:	12/22/19 07:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	12/22/19 17:34	Instrument:	MSVOA7		
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021

CAS NO.	COMPOUND	CONC. (ug/L)	Q
71-55-6	1,1,1-Trichloroethane	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.500	U
79-00-5	1,1,2-Trichloroethane	0.500	U
75-34-3	1,1-Dichloroethane	0.500	U
75-35-4	1,1-Dichloroethylene	0.500	U
87-61-6	1,2,3-Trichlorobenzene	0.500	U
120-82-1	1,2,4-Trichlorobenzene	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	0.500	U
106-93-4	1,2-Dibromoethane	0.500	U
95-50-1	1,2-Dichlorobenzene	0.500	U
107-06-2	1,2-Dichloroethane	0.500	U
78-87-5	1,2-Dichloropropane	0.500	U
541-73-1	1,3-Dichlorobenzene	0.500	U
106-46-7	1,4-Dichlorobenzene	0.500	U
78-93-3	2-Butanone	0.500	U
591-78-6	2-Hexanone	0.500	U
108-10-1	4-Methyl-2-pentanone	0.500	U
67-64-1	Acetone	2.00	U
71-43-2	Benzene	0.500	U
74-97-5	Bromochloromethane	0.500	U
75-27-4	Bromodichloromethane	0.500	U
75-25-2	Bromoform	0.500	U
74-83-9	Bromomethane	0.500	U
75-15-0	Carbon disulfide	0.500	U
56-23-5	Carbon tetrachloride	0.500	U
108-90-7	Chlorobenzene	0.500	U
75-00-3	Chloroethane	0.500	U
67-66-3	Chloroform	0.500	U
74-87-3	Chloromethane	0.500	U

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	BL91221-BLK1	File ID:	V737511.D
Prepared:	12/22/19 07:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	12/22/19 17:34	Instrument:	MSVOA7		
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021

CAS NO.	COMPOUND	CONC. (ug/L)	Q
156-59-2	cis-1,2-Dichloroethylene	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	0.500	U
110-82-7	Cyclohexane	0.500	U
124-48-1	Dibromochloromethane	0.500	U
75-71-8	Dichlorodifluoromethane	0.500	U
100-41-4	Ethyl Benzene	0.500	U
98-82-8	Isopropylbenzene	0.500	U
79-20-9	Methyl acetate	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.500	U
108-87-2	Methylcyclohexane	0.500	U
75-09-2	Methylene chloride	2.00	U
95-47-6	o-Xylene	0.500	U
179601-23-1	p- & m- Xylenes	1.00	U
100-42-5	Styrene	0.500	U
127-18-4	Tetrachloroethylene	0.500	U
108-88-3	Toluene	0.500	U
156-60-5	trans-1,2-Dichloroethylene	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	0.500	U
79-01-6	Trichloroethylene	0.500	U
75-69-4	Trichlorofluoromethane	0.500	U
75-01-4	Vinyl Chloride	0.500	U
1330-20-7	Xylenes, Total	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.27	92.7	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	71503	5.822	72154	5.825	
ISTD: Chlorobenzene-d5	316548	8.855	338633	8.855	

FORM I

METHOD BLANK DATA SHEET

EPA 8260C

Laboratory:	York Analytical Laboratories, Inc.			SDG:	19L0677
Client:	Chazen Environmental Services (Poughkeepsie)			Project:	41433.00 TASK 0600 Katonah Municipal Well
Matrix:	Water	Laboratory ID:	BL91221-BLK1	File ID:	V737511.D
Prepared:	12/22/19 07:30	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	12/22/19 17:34	Instrument:	MSVOA7		
Batch:	BL91221	Sequence:	Y9L2401	Calibration:	YJ90021

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,2-Dichlorobenzene-d4	100926	11.843	124396	11.843	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737511.D
Acq On : 22 Dec 2019 5:34 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BLK1
Misc : QBV7122219A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 24 09:26:29 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

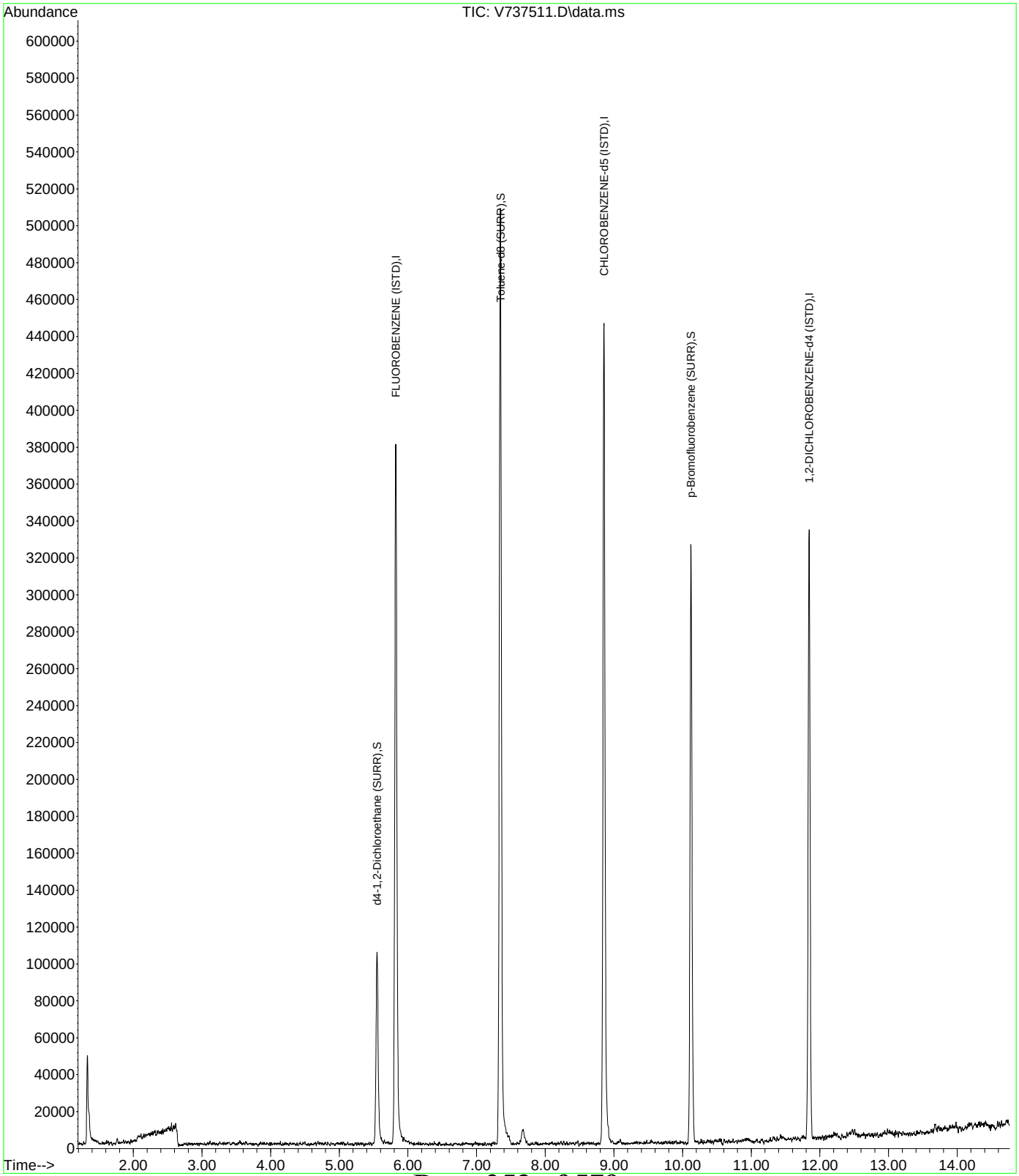
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE (ISTD)	5.822	70	71503	10.00	ppb	# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	316548	10.00	ppb	# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	100926	10.00	ppb	0.00
System Monitoring Compounds						
35) d4-1,2-Dichloroethane ...	5.550	65	76146	9.27	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.70%			
53) Toluene-d8 (SURR)	7.347	98	424965	10.42	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.20%			
73) p-Bromofluorobenzene (...	10.121	95	113364	11.17	ppb	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.70%			
Target Compounds						Qvalue
6) Chloroethane	2.242	64	259	Below Cal		99
52) 4-Methyl-2-Pentanone	7.264	43	339	Below Cal	#	53

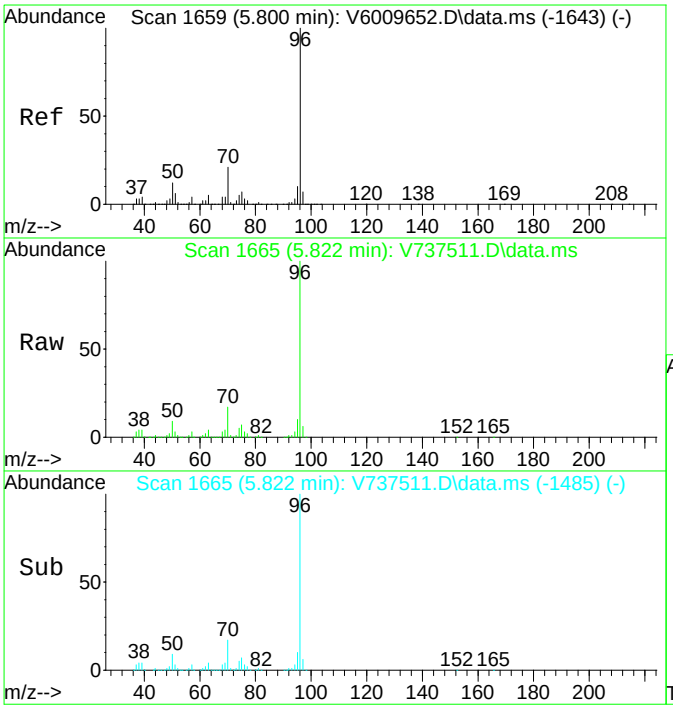
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737511.D
Acq On : 22 Dec 2019 5:34 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BLK1
Misc : QBV7122219A
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 24 09:26:29 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

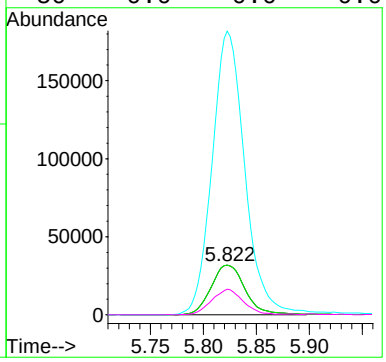


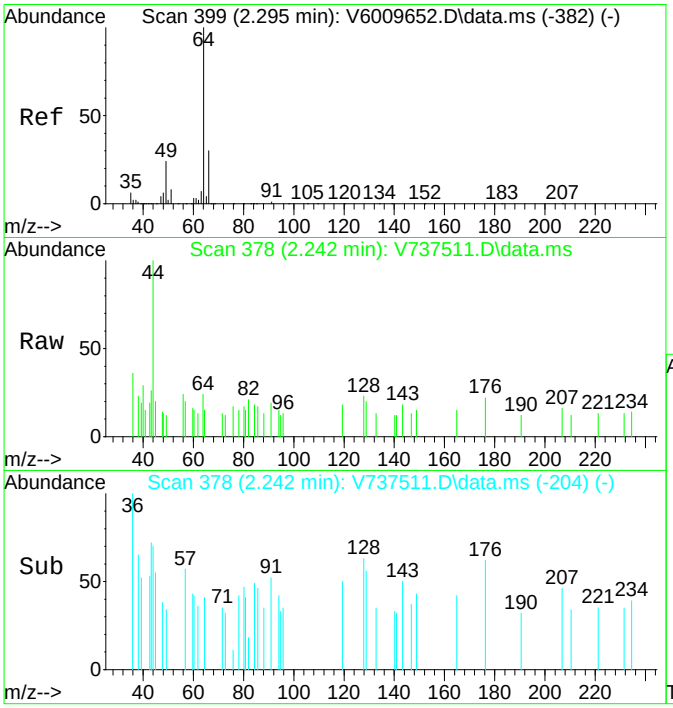


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.000 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion: 70 Resp: 71503

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	550.4	323.6	672.2
50	0.0	0.0	0.0

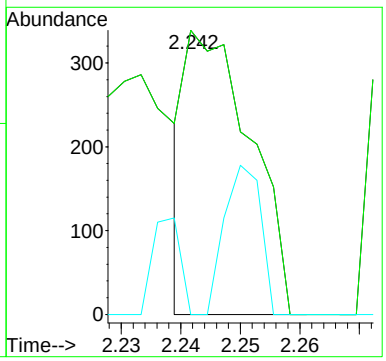


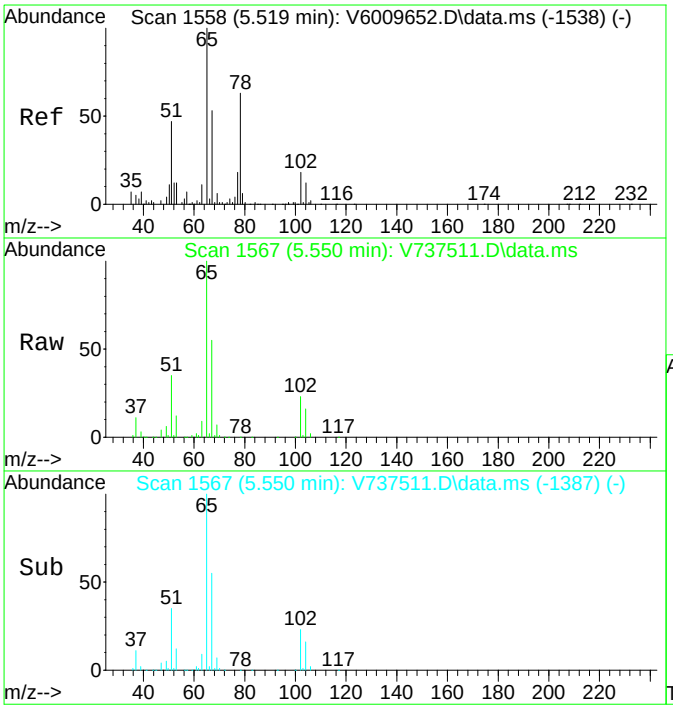


#6
Chloroethane
Concen: Below Cal
RT: 2.242 min Scan# 378
Delta R.T. -0.017 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion: 64 Resp: 259

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	29.3	20.6	42.8

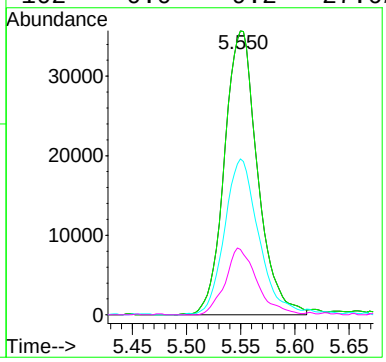


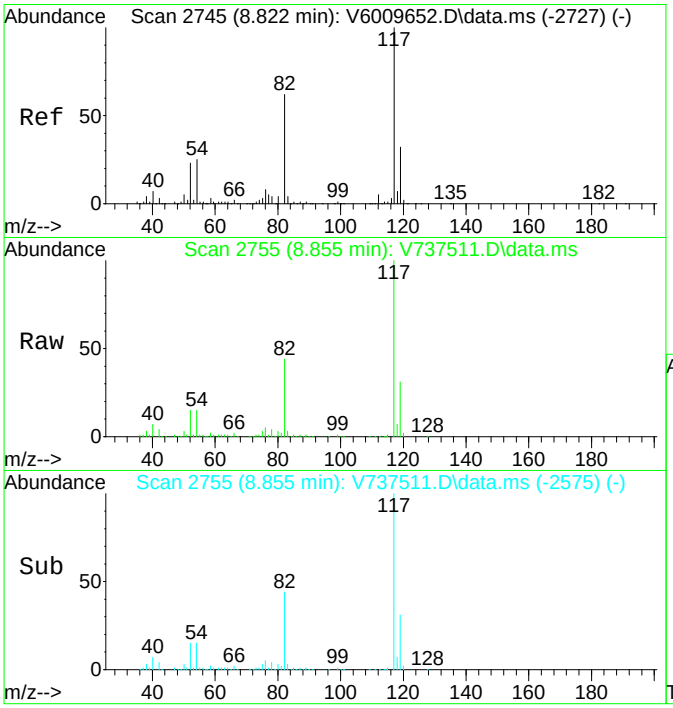


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.27 ppb
RT: 5.550 min Scan# 1567
Delta R.T. -0.000 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion: 65 Resp: 76146

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	56.4	33.0	68.6
102	0.0	9.2	27.6#

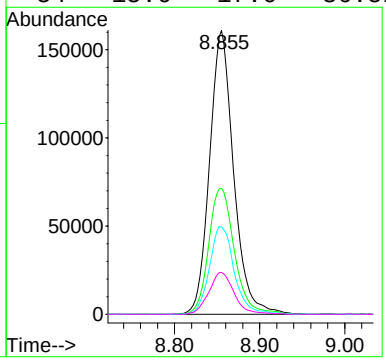


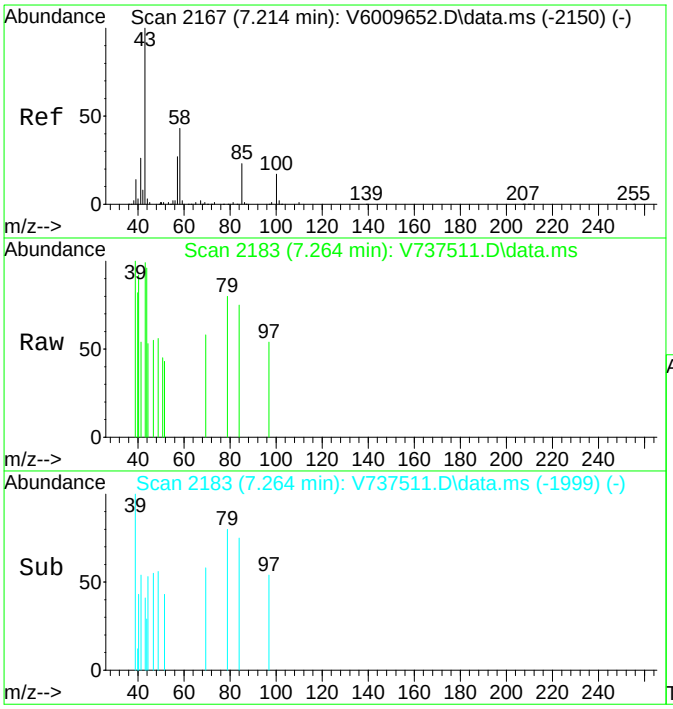


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. -0.000 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion:117 Resp: 316548

Ion	Ratio	Lower	Upper
117	100		
82	47.6	35.9	74.7
119	32.0	20.8	43.2
54	15.6	17.6	36.5#

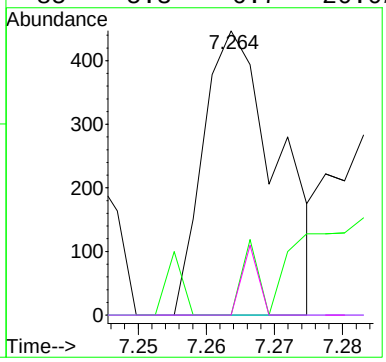


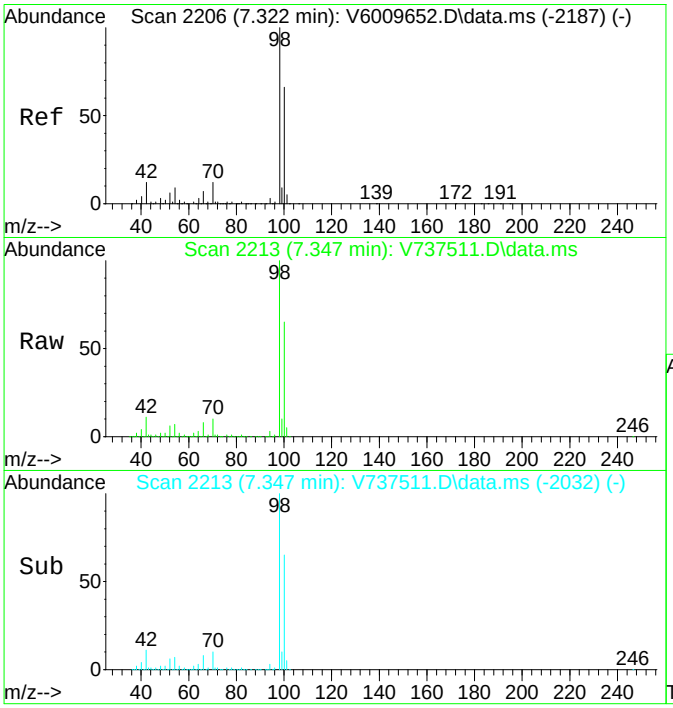


#52
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 7.264 min Scan# 2183
Delta R.T. 0.011 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion: 43 Resp: 339

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.8	49.4#
100	0.0	5.8	17.3#
85	5.3	6.7	20.0#

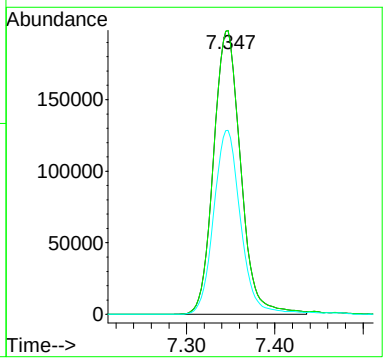


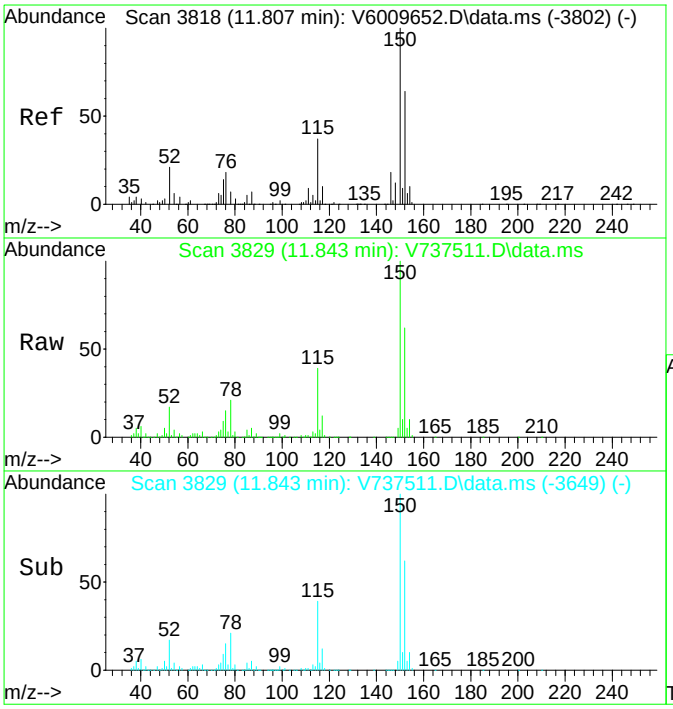


#53
Toluene-d8 (SURR)
Concen: 10.42 ppb
RT: 7.347 min Scan# 2213
Delta R.T. 0.003 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion: 98 Resp: 424965

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.1	43.4	90.2

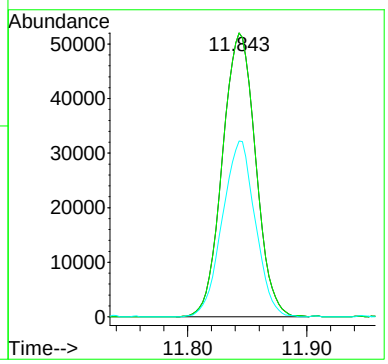


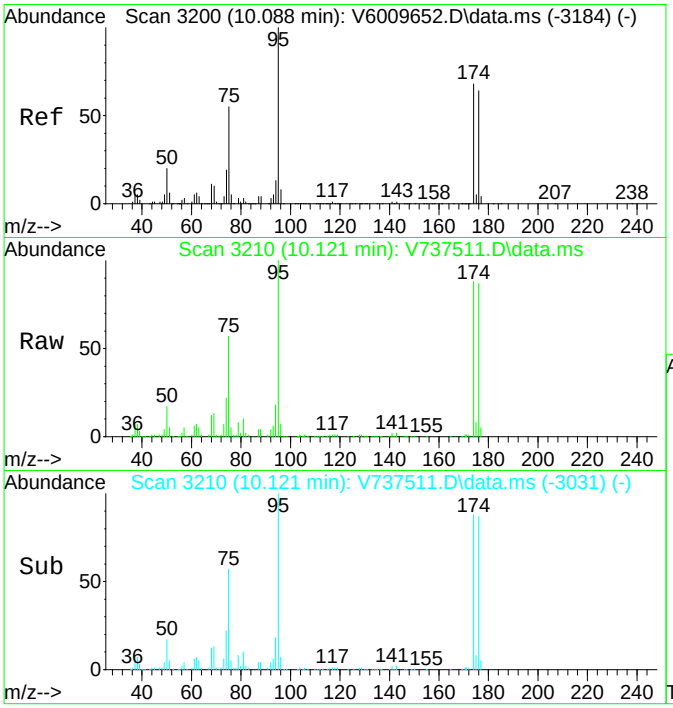


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.000 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion:152 Resp: 100926

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	61.3	33.7	101.0

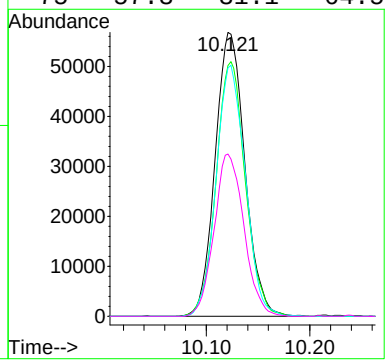




#73
p-Bromofluorobenzene (SURR)
Concen: 11.17 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737511.D
Acq: 22 Dec 2019 5:34 pm

Tgt Ion: 95 Resp: 113364

Ion	Ratio	Lower	Upper
95	100		
174	88.2	49.1	102.1
176	86.9	47.7	99.1
75	57.3	31.1	64.5



MATRIX SPIKE RAW DATA

SDG: 19L0677
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737525.D
Acq On : 23 Dec 2019 12:28 am
InstName : MSVOA7
Operator : SS
Sample : BL91221-MS1
Misc : QBV7122219A 19L0677-01 D
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 23 08:53:38 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.823	70	64479	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	303222	10.00	ppb		# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	116688	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	72616	9.80	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%				
53) Toluene-d8 (SURR)	7.344	98	384174	9.84	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%				
73) p-Bromofluorobenzene (...	10.121	95	111575	9.51	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	120412	16.19	ppb		99
3) Chloromethane	1.699	50	104280	14.62	ppb		97
4) Vinyl Chloride	1.799	62	155611	12.63	ppb		99
5) Bromomethane	2.156	94	62139	12.44	ppb		98
6) Chloroethane	2.259	64	154287	14.37	ppb		99
7) Trichlorofluoromethane	2.498	101	553349	13.60	ppb		99
8) Ethanol	2.793	45	40063	1577.32	ppb	#	52
9) Freon-113	3.001	101	108181	12.39	ppb	#	75
10) 1,1-Dichloroethylene	3.032	61	140337	12.09	ppb	#	72
11) Acrolein	2.990	56	6013	7.40	ppb		80
12) Acetone	3.140	43	12017	9.46	ppb	#	100
13) Iodomethane	3.207	142	41265	19.91	ppb		98
14) Ally Chloride	3.408	41	119106	11.18	ppb	#	71
15) Methyl Acetate	3.433	43	30278	9.71	ppb	#	96
16) Carbon disulfide	3.257	76	313726	12.30	ppb		100
17) tert-Butyl Alcohol (TBA)	3.675	59	26906	51.03	ppb	#	100
18) Methylene Chloride	3.555	49	106574	11.98	ppb	#	62
19) Acrylonitrile	3.830	53	12701	10.55	ppb	#	67
20) trans-1,2-Dichloroethy...	3.783	61	134217	12.45	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.758	73	242937	11.14	ppb		95
22) 1,1-Dichloroethane	4.206	63	172197	11.07	ppb		98
23) Vinyl Acetate	4.234	43	103703	8.92	ppb	#	100
24) Diisopropyl ether (DIPE)	4.192	45	243400	10.87	ppb	#	95
25) Ethyl-tert-Butyl ether...	4.532	59	243053	11.44	ppb	#	92
26) cis-1,2-Dichloroethylene	4.765	61	142408	11.32	ppb	#	84
27) 2-Butanone	4.785	72	8773	11.25	ppb	#	100
28) 2,2-Dichloropropane	4.732	77	139707	10.63	ppb	#	99
29) Tetrahydrofuran	5.024	71	6990	9.32	ppb	#	1
30) Bromochloromethane	5.005	49	60379	10.77	ppb	#	56
31) Chloroform	5.069	83	191714	11.41	ppb	#	99
32) 1,1,1-Trichloroethane	5.202	97	193506	12.50	ppb	#	99
33) Cyclohexane	5.213	56	146837	12.59	ppb	#	69
34) 1,1-Dichloropropylene	5.350	75	160707	11.78	ppb		80
36) Carbon Tetrachloride	5.341	117	190110	12.26	ppb		99
37) tert-Amyl alcohol (TAA)	5.586	59	60364	111.33	ppb	#	78
38) 1,2-Dichloroethane	5.622	62	104895	11.07	ppb		99
39) Benzene	5.561	78	430165	11.65	ppb	#	69
40) tert-Amyl methyl ether...	5.608	73	318590	11.61	ppb	#	99
42) Trichloroethylene	6.168	95	123505	11.40	ppb		81
43) Methyl Cyclohexane	6.293	83	177488	11.88	ppb	#	72
44) Methyl Methacrylate	6.482	69	49664	10.39	ppb	#	74
45) Dibromomethane	6.557	93	58655	10.55	ppb	#	67
46) Bromodichloromethane	6.699	83	133336	10.81	ppb		94
47) 1,2-Dichloropropane	6.412	63	89052	10.21	ppb		95
48) 1,4-Dioxane	6.549	88	3916	118.01	ppb		96
49) 2-Nitropropane	6.947	43	13334	5.88	ppb	#	1
50) 2-Chloroethyl vinyl ether	7.411	63	41927	20.95	ppb	#	91
51) cis-1,3-Dichloropropene	7.114	75	154541	10.98	ppb		87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737525.D
Acq On : 23 Dec 2019 12:28 am
InstName : MSVOA7
Operator : SS
Sample : BL91221-MS1
Misc : QBV7122219A 19L0677-01 D
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 23 08:53:38 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

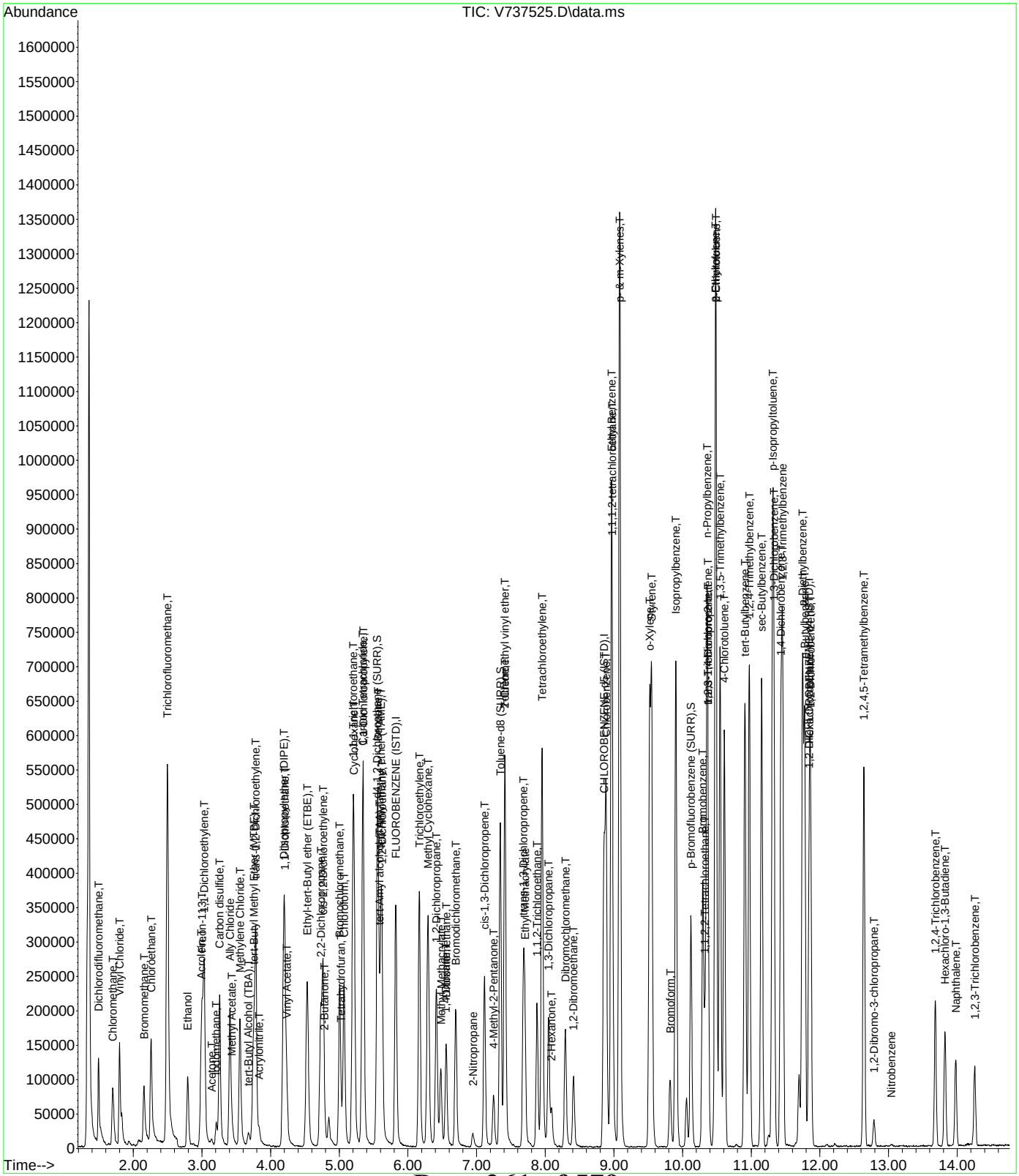
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.247	43	59349	11.65	ppb	#	92
54) Toluene	7.411	91	498567	11.14	ppb		99
55) Ethyl Methacrylate	7.703	69	109957	11.18	ppb	#	24
56) trans-1,3-Dichloropropene	7.681	75	131039	10.89	ppb		99
57) 1,1,2-Trichloroethane	7.879	97	71460	10.37	ppb		93
58) 1,3-Dichloropropane	8.048	76	124339	10.71	ppb	#	99
59) Tetrachloroethylene	7.954	166	177637	13.44	ppb	#	100
60) 2-Hexanone	8.090	43	39212	10.75	ppb		99
61) Dibromochloromethane	8.293	129	104209	11.70	ppb	#	94
62) 1,2-Dibromoethane	8.410	107	75508	10.76	ppb		98
63) Chlorobenzene	8.886	112	338542	10.62	ppb	#	87
64) 1,1,1,2-tetrachloroethane	8.975	131	132163	11.08	ppb		98
65) Ethyl Benzene	8.964	91	577087	11.28	ppb		96
66) p- & m-Xylenes	9.083	91	910287	22.65	ppb		93
67) o-Xylene	9.520	91	423573	11.08	ppb		98
68) Styrene	9.548	104	376702	11.60	ppb	#	100
69) Bromoform	9.821	173	46636	9.92	ppb	#	99
71) p-Ethyltoluene	10.480	105	604001	11.63	ppb	#	87
72) Isopropylbenzene	9.901	105	576039	10.58	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.324	83	87224	9.79	ppb	#	98
75) Bromobenzene	10.294	77	163739	10.10	ppb		76
76) trans-1,4-Dichloro-2-b...	10.372	75	91405	10.35	ppb	#	88
77) 1,2,3-Trichloropropane	10.372	110	28115	10.26	ppb		81
78) n-Propylbenzene	10.358	91	657523	10.65	ppb		96
79) 2-Chlorotoluene	10.486	91	448405	11.03	ppb		97
80) 4-Chlorotoluene	10.608	91	373162	10.67	ppb		95
81) 1,3,5-Trimethylbenzene	10.547	105	473702	11.12	ppb		96
82) tert-Butylbenzene	10.908	119	413373	10.89	ppb		91
83) 1,2,4-Trimethylbenzene	10.972	105	462633	10.67	ppb		97
84) sec-Butylbenzene	11.151	105	571666	11.99	ppb		97
85) 1,3-Dichlorobenzene	11.331	146	276058	10.42	ppb		95
86) p-Isopropyltoluene	11.312	119	529202	11.07	ppb		95
87) 1,4-Dichlorobenzene	11.432	146	270001	10.29	ppb		95
88) 1,2,3-Trimethylbenzene	11.457	105	457927	11.29	ppb		96
89) p-Diethylbenzene	11.749	105	263453	13.06	ppb		87
90) 1,2-Dichlorobenzene	11.863	146	231632	10.54	ppb	#	68
91) n-Butylbenzene	11.777	91	484891	14.96	ppb		92
92) Hexachloroethane	11.846	117	22468	3.25	ppb	#	4
93) 1,2-Dibromo-3-chloropr...	12.787	75	9276	9.18	ppb		87
94) 1,2,4,5-Tetramethylben...	12.642	119	352589	10.86	ppb		96
95) Nitrobenzene	13.042	77	1615	9.87	ppb	#	88
96) 1,2,4-Trichlorobenzene	13.682	180	68467	8.95	ppb		99
97) Hexachloro-1,3-Butadiene	13.821	225	29566	9.55	ppb		92
98) Naphthalene	13.980	128	122112	8.64	ppb		97
99) 1,2,3-Trichlorobenzene	14.256	180	36634	8.03	ppb		97

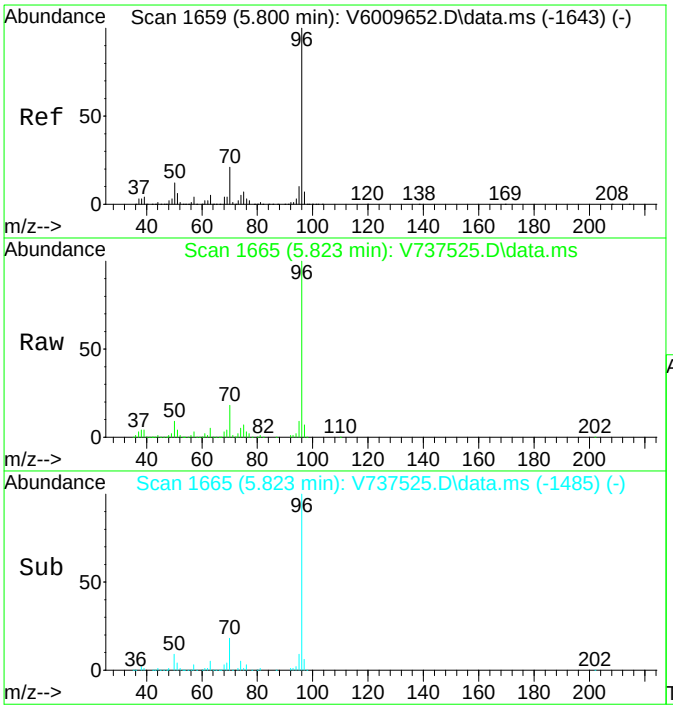
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737525.D
Acq On : 23 Dec 2019 12:28 am
InstName : MSVOA7
Operator : SS
Sample : BL91221-MS1
Misc : QBV7122219A 19L0677-01 D
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 23 08:53:38 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

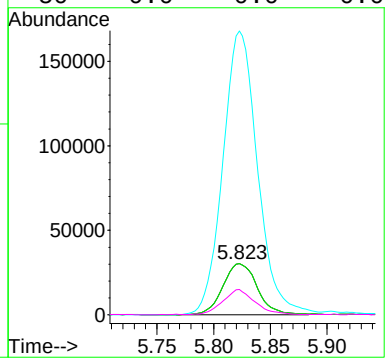


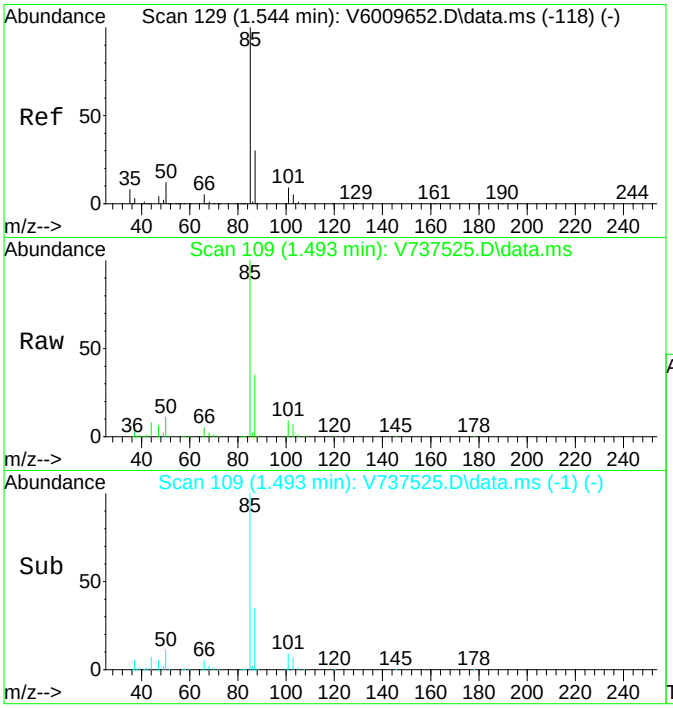


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.823 min Scan# 1665
Delta R.T. 0.001 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 70 Resp: 64479

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	553.7	323.6	672.2
50	0.0	0.0	0.0

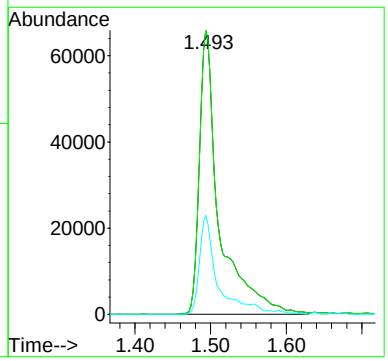


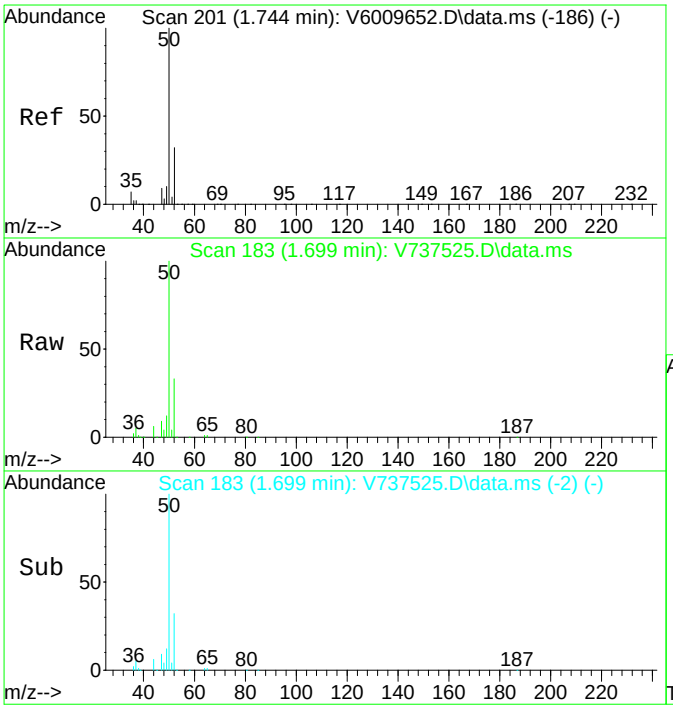


#2
Dichlorodifluoromethane
Concen: 16.19 ppb
RT: 1.493 min Scan# 109
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 85 Resp: 120412

Ion	Ratio	Lower	Upper
85	100		
85	100.0	65.0	135.0
87	29.6	21.1	43.9

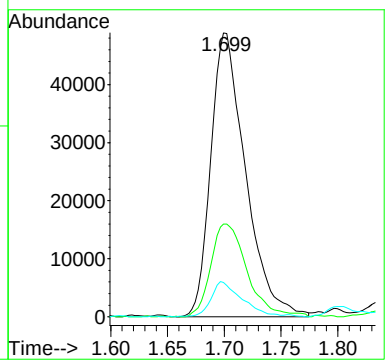


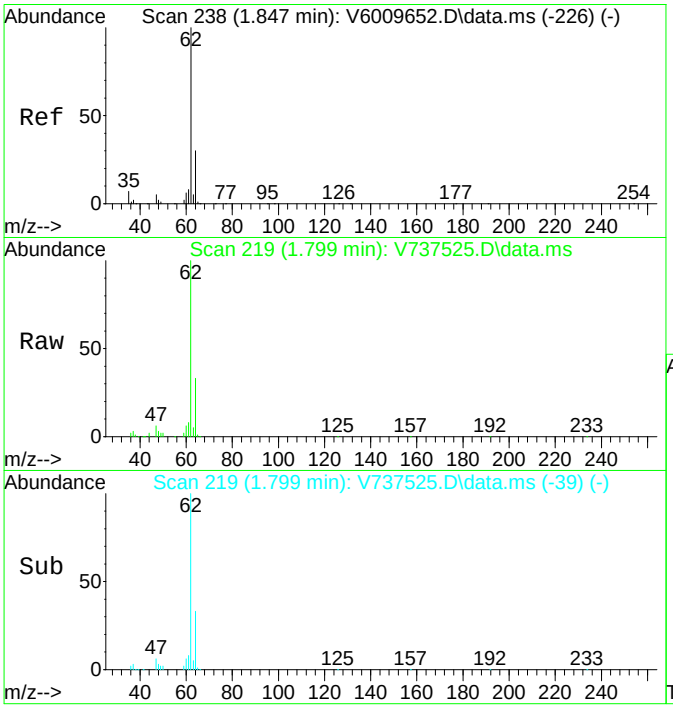


#3
Chloromethane
Concen: 14.62 ppb
RT: 1.699 min Scan# 183
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 50 Resp: 104280

Ion	Ratio	Lower	Upper
50	100		
52	34.1	20.9	43.5
49	11.1	6.6	13.6

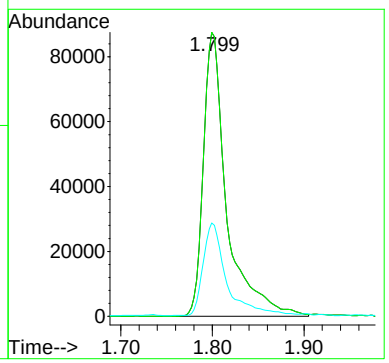


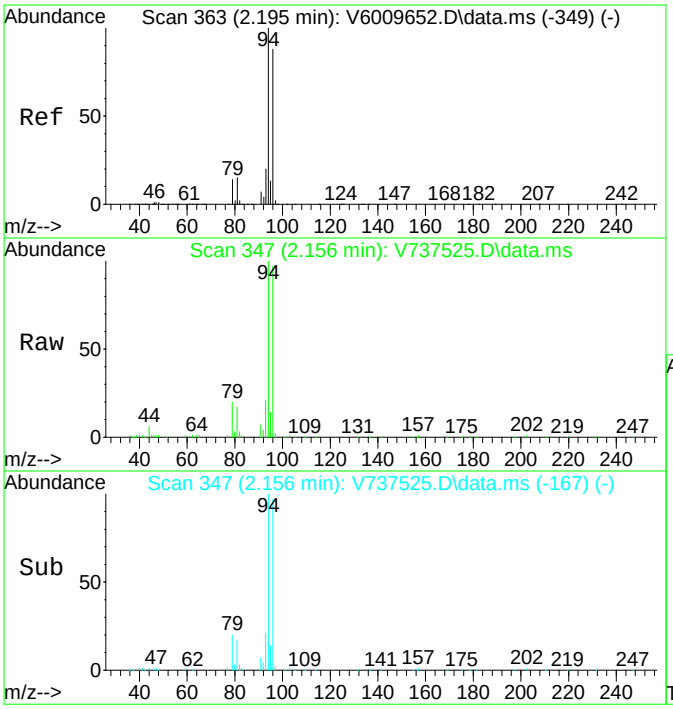


#4
Vinyl Chloride
Concen: 12.63 ppb
RT: 1.799 min Scan# 219
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 62 Resp: 155611

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	32.3	20.2	42.0

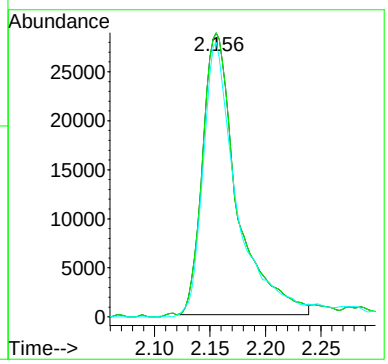


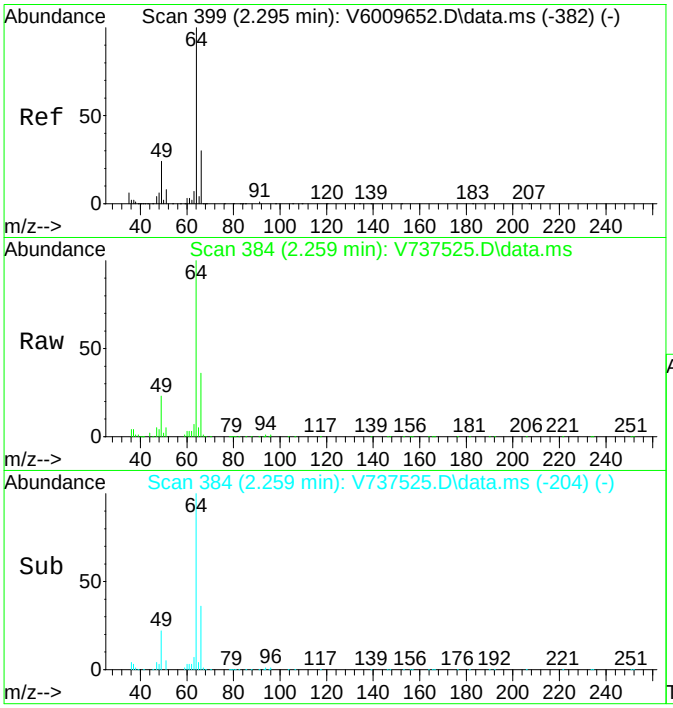


#5
Bromomethane
Concen: 12.44 ppb
RT: 2.156 min Scan# 347
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 94 Resp: 62139

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	95.7	45.9	137.6

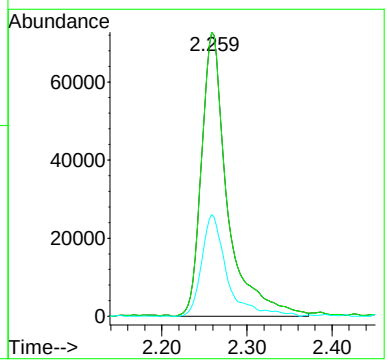


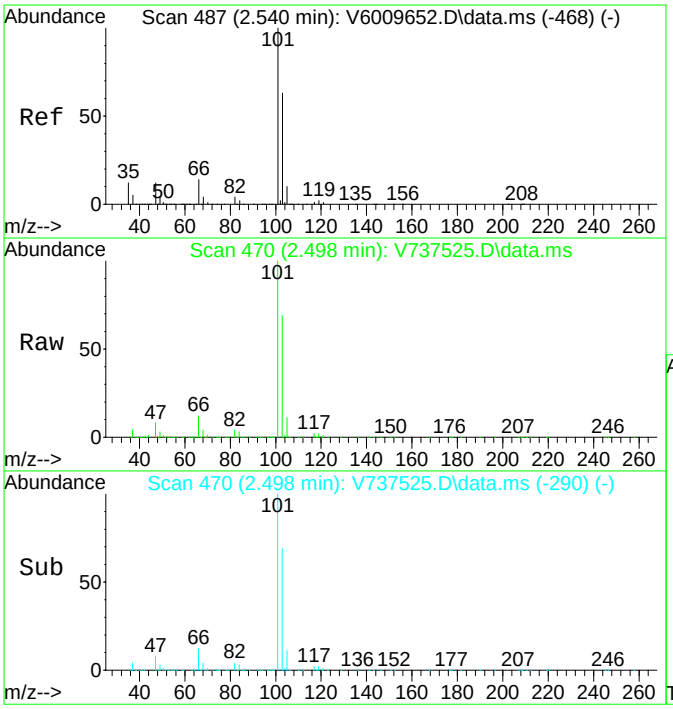


#6
Chloroethane
Concen: 14.37 ppb
RT: 2.259 min Scan# 384
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 64 Resp: 154287

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	33.3	20.6	42.8

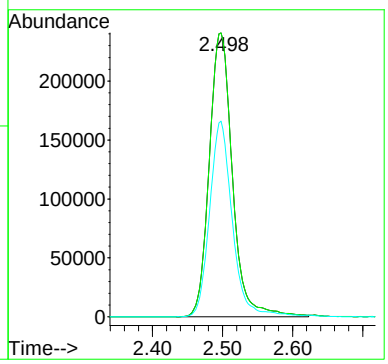


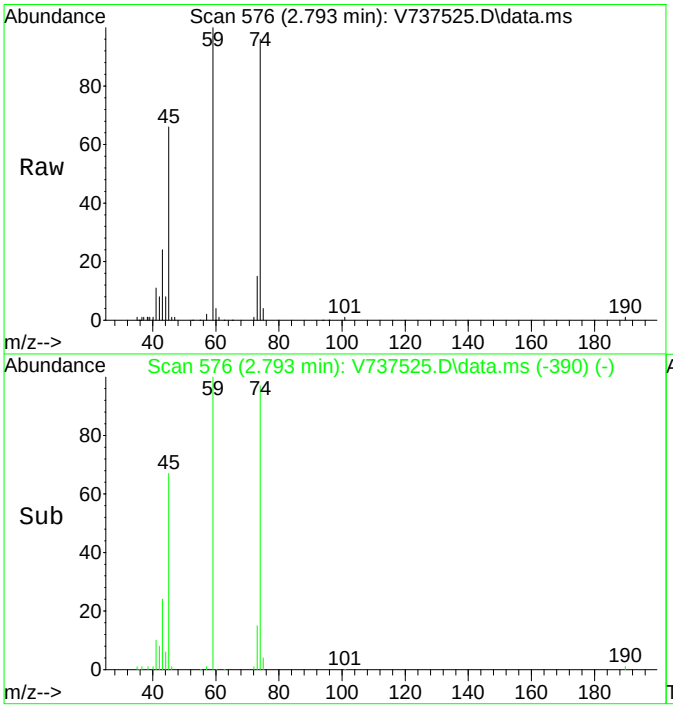


#7
Trichlorofluoromethane
Concen: 13.60 ppb
RT: 2.498 min Scan# 470
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:101 Resp: 553349

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.4	41.9	87.1

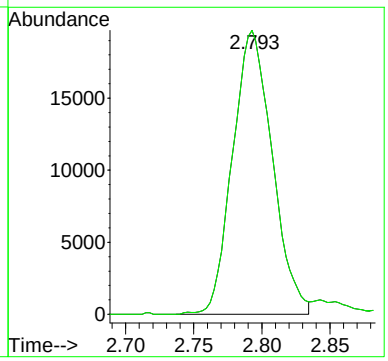


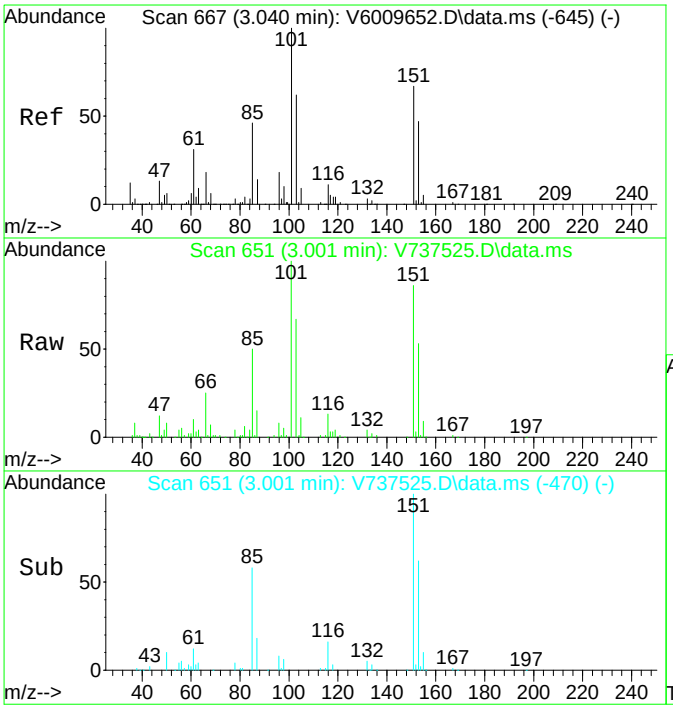


#8
Ethanol
Concen: 1577.32 ppb
RT: 2.793 min Scan# 576
Delta R.T. 0.017 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 45 Resp: 40063

Ion	Ratio	Lower	Upper
45	100		
45	100.0	31.3	93.9#

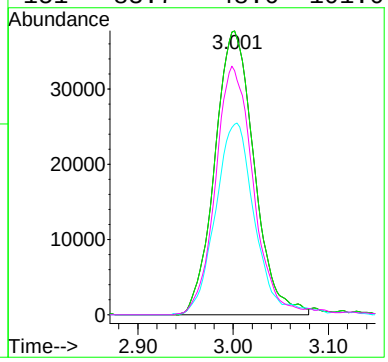


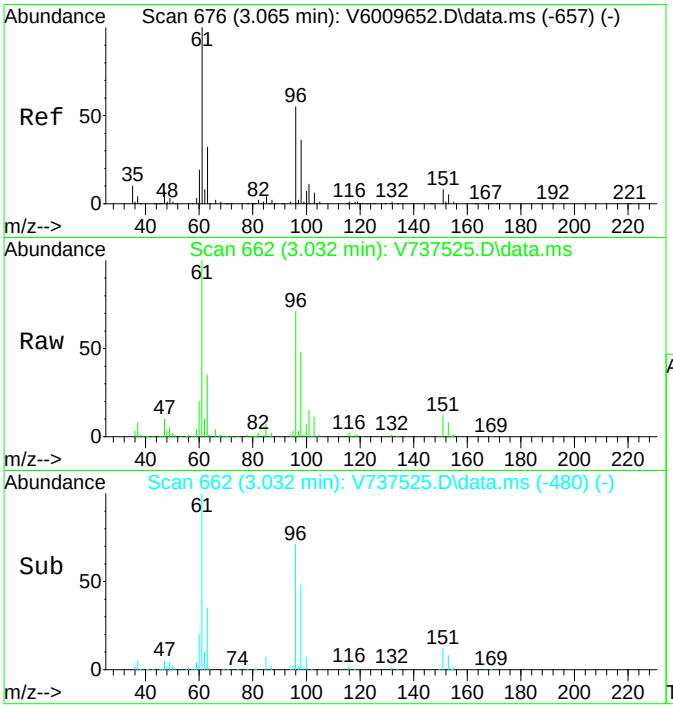


#9
Freon-113
Concen: 12.39 ppb
RT: 3.001 min Scan# 651
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:101 Resp: 108181

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	0.0	40.9	84.9#
151	83.7	48.6	101.0

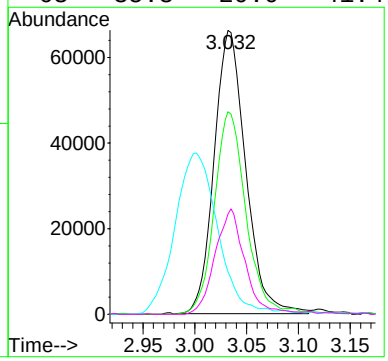


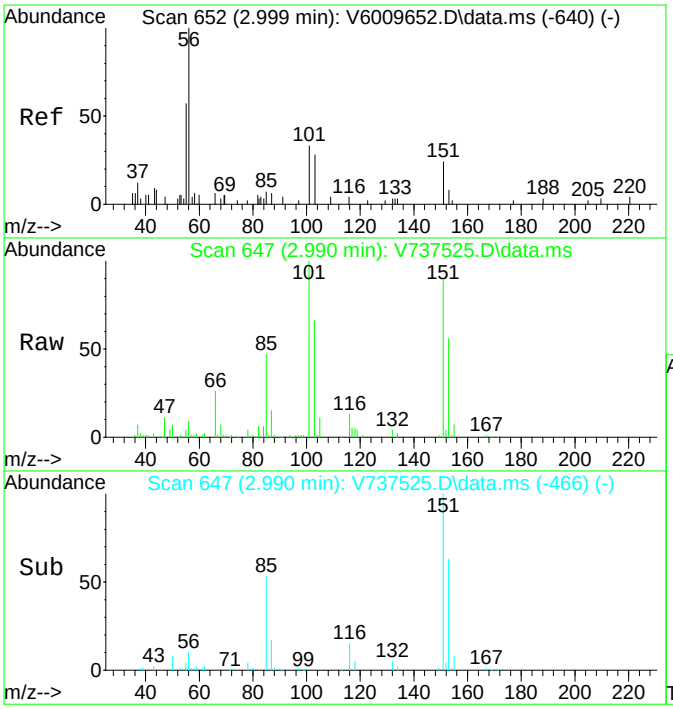


#10
1,1-Dichloroethylene
Concen: 12.09 ppb
RT: 3.032 min Scan# 662
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 61 Resp: 140337

Ion	Ratio	Lower	Upper
61	100		
96	70.7	33.9	70.3#
101	77.1	32.0	66.4#
63	35.3	20.0	41.4

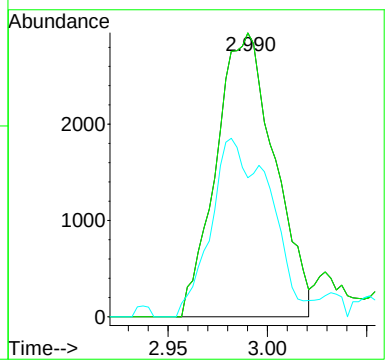


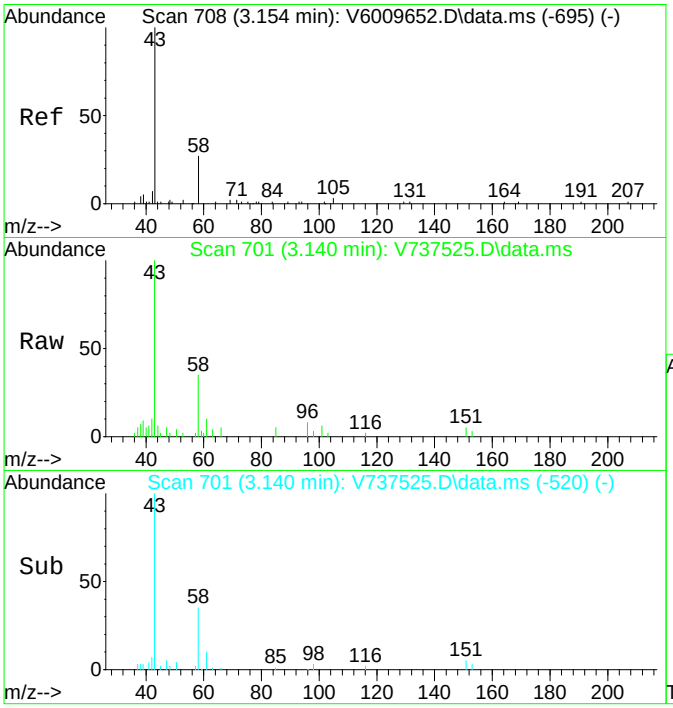


#11
Acrolein
Concen: 7.40 ppb
RT: 2.990 min Scan# 647
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 56 Resp: 6013

Ion	Ratio	Lower	Upper
56	100		
56	100.0	74.8	112.2
55	38.2	34.3	102.9

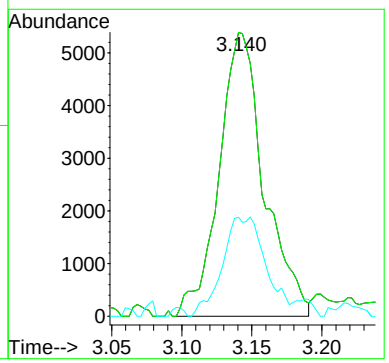


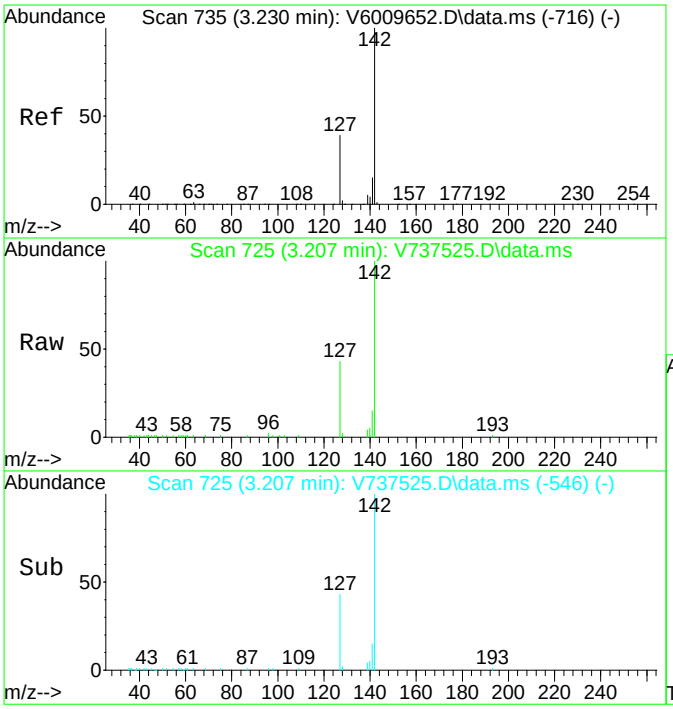


#12
Acetone
Concen: 9.46 ppb
RT: 3.140 min Scan# 701
Delta R.T. 0.002 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 43 Resp: 12017

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	0.0	0.0	0.0

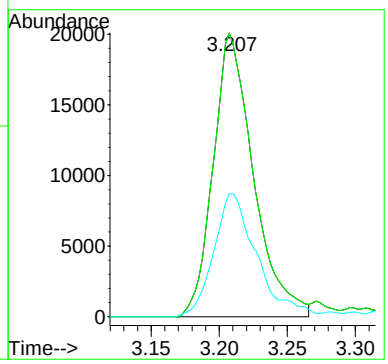


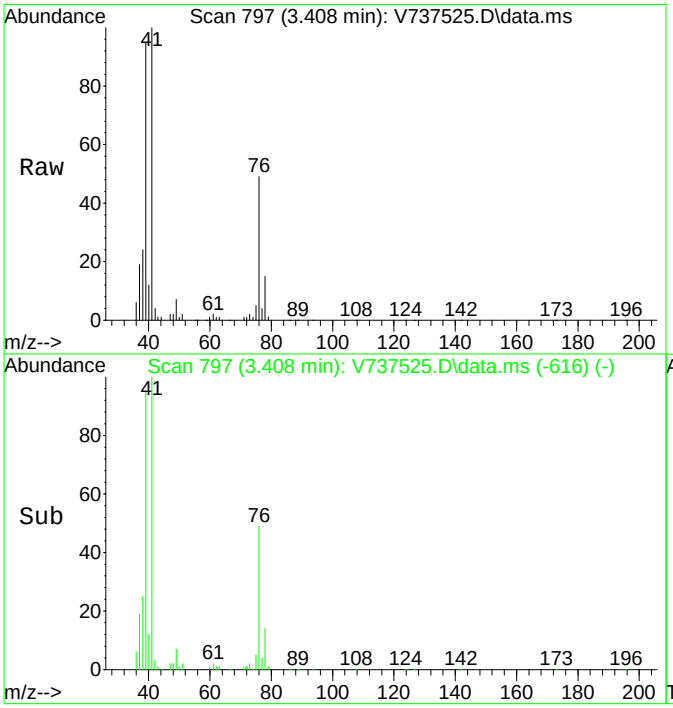


#13
Iodomethane
Concen: 19.91 ppb
RT: 3.207 min Scan# 725
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:142 Resp: 41265

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	46.3	20.9	62.8

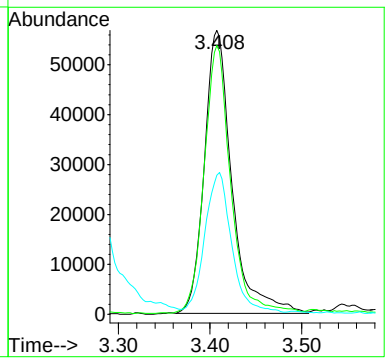


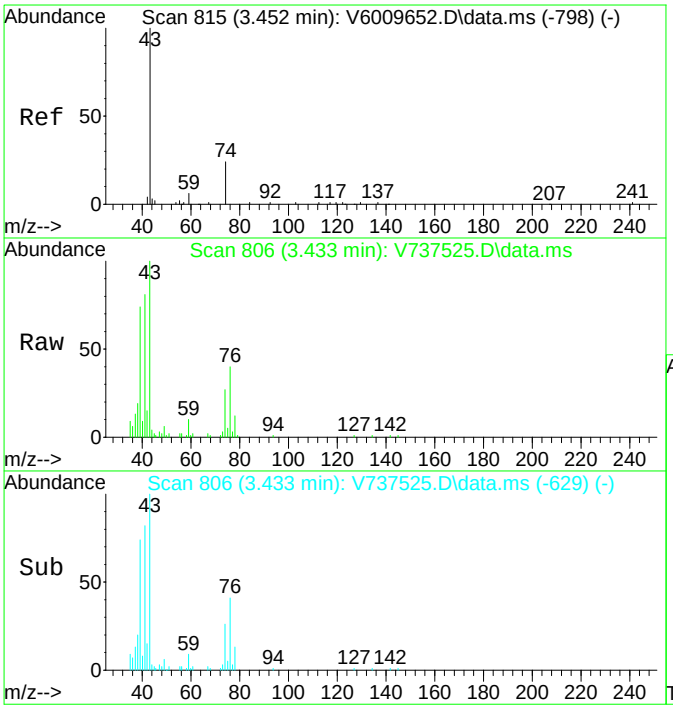


#14
Ally Chloride
Concen: 11.18 ppb
RT: 3.408 min Scan# 797
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 41 Resp: 119106

Ion	Ratio	Lower	Upper
41	100		
39	90.5	54.5	81.7#
76	47.2	24.3	36.5#

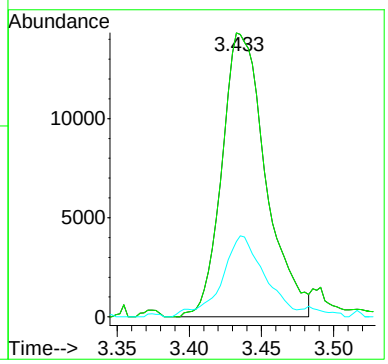


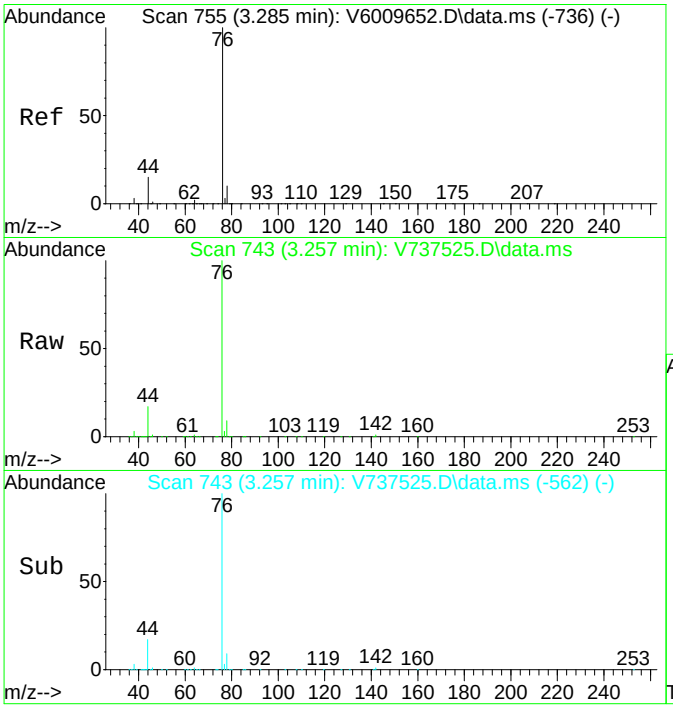


#15
Methyl Acetate
Concen: 9.71 ppb
RT: 3.433 min Scan# 806
Delta R.T. -0.008 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 43 Resp: 30278

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	27.7	8.5	25.5#

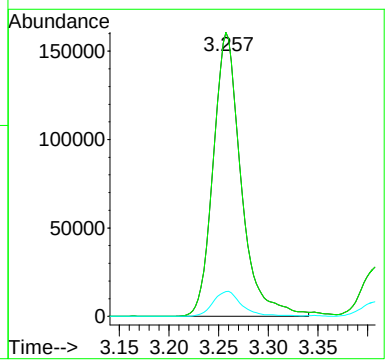


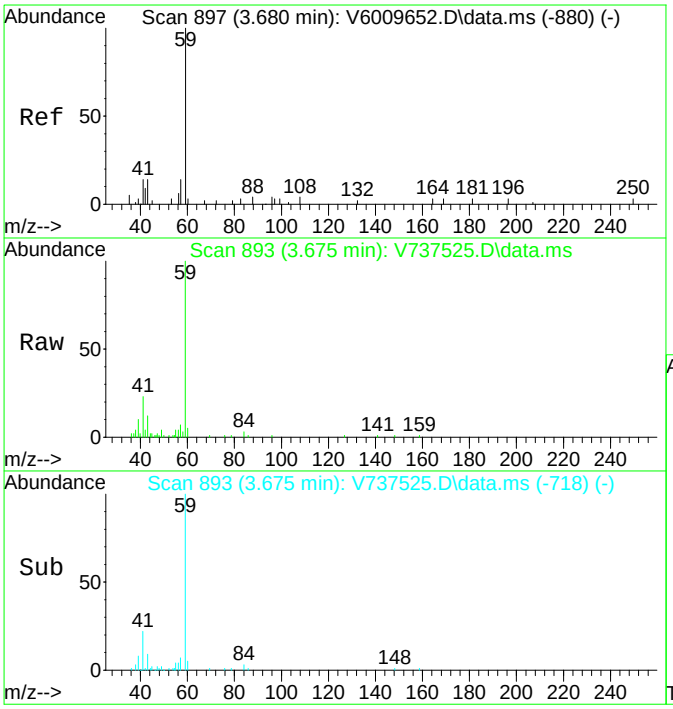


#16
Carbon disulfide
Concen: 12.30 ppb
RT: 3.257 min Scan# 743
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 76 Resp: 313726

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	9.0	4.5	13.5

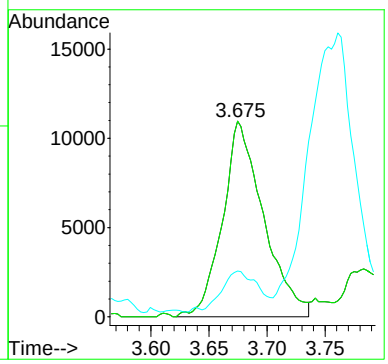


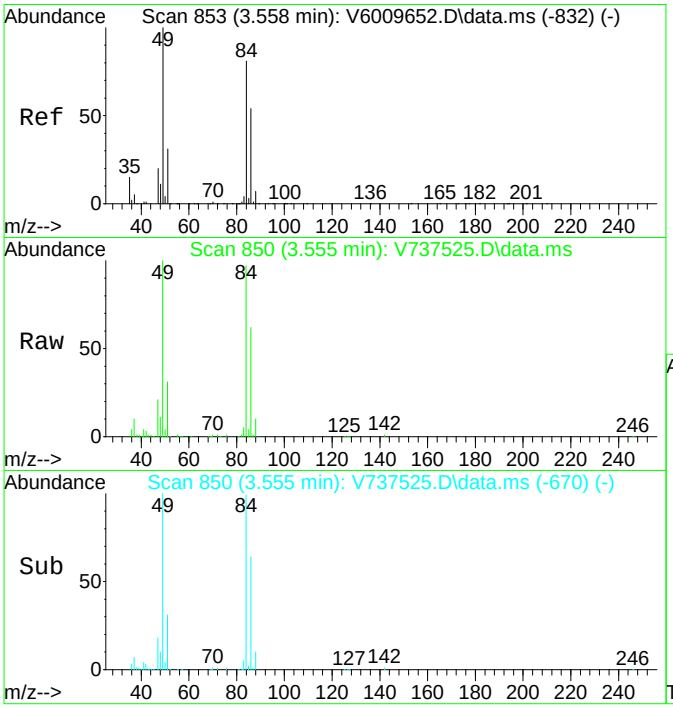


#17
tert-Butyl Alcohol (TBA)
Concen: 51.03 ppb
RT: 3.675 min Scan# 893
Delta R.T. -0.014 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 59 Resp: 26906

Ion	Ratio	Lower	Upper
59	100		
59	100.0	65.0	135.0
41	0.0	0.0	0.0

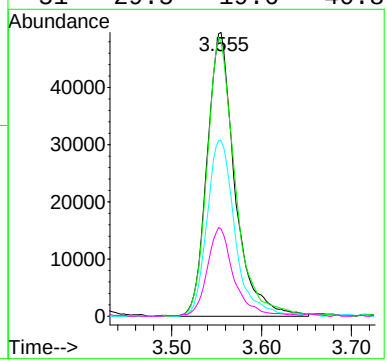


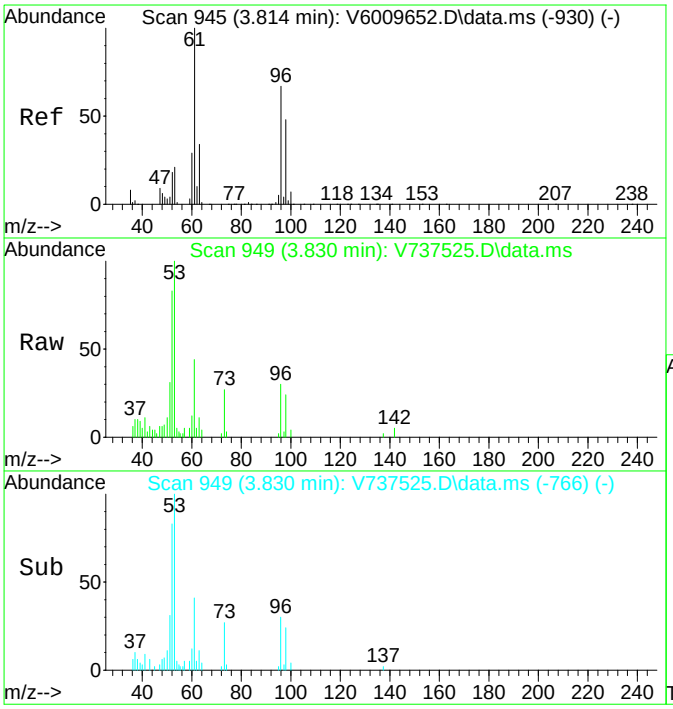


#18
Methylene Chloride
Concen: 11.98 ppb
RT: 3.555 min Scan# 850
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 49 Resp: 106574

Ion	Ratio	Lower	Upper
49	100		
84	99.2	38.0	78.8#
86	62.5	24.0	49.8#
51	29.5	19.6	40.8

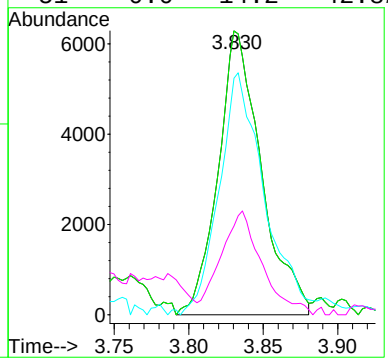


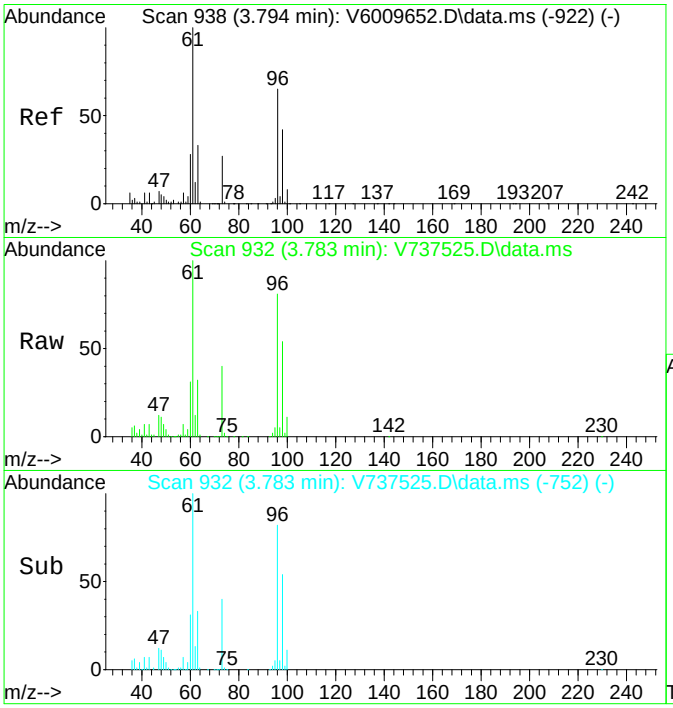


#19
Acrylonitrile
Concen: 10.55 ppb
RT: 3.830 min Scan# 949
Delta R.T. 0.008 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 53 Resp: 12701

Ion	Ratio	Lower	Upper
53	100		
53	100.0	62.2	93.4#
52	0.0	0.0	0.0
51	0.0	14.2	42.8#

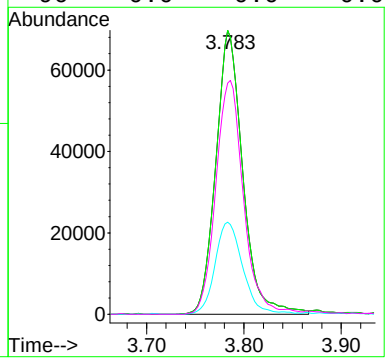


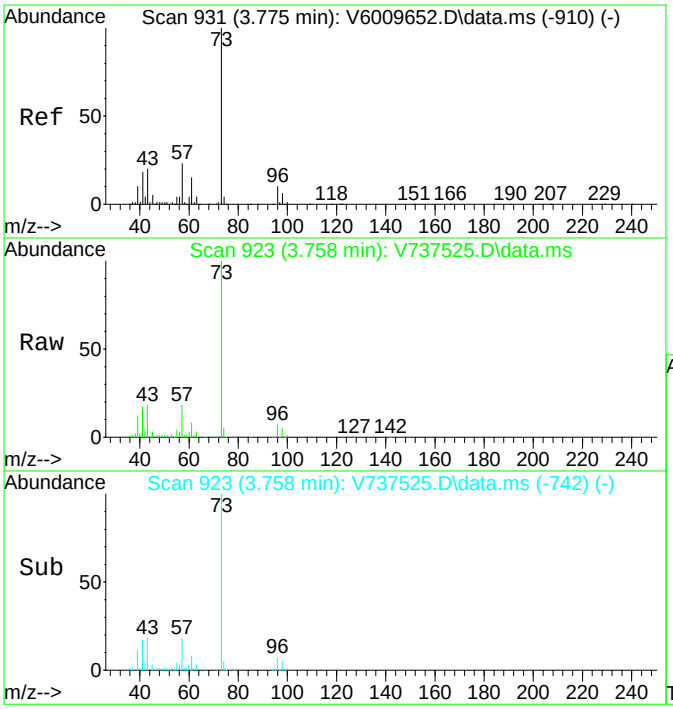


#20
trans-1,2-Dichloroethylene
Concen: 12.45 ppb
RT: 3.783 min Scan# 932
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 61 Resp: 134217

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	0.0	0.0
96	0.0	0.0	0.0

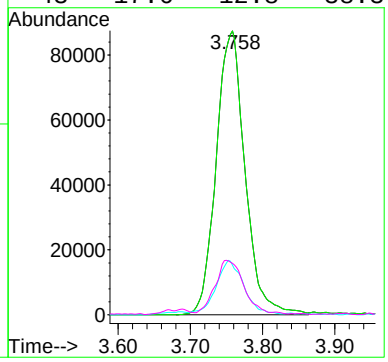


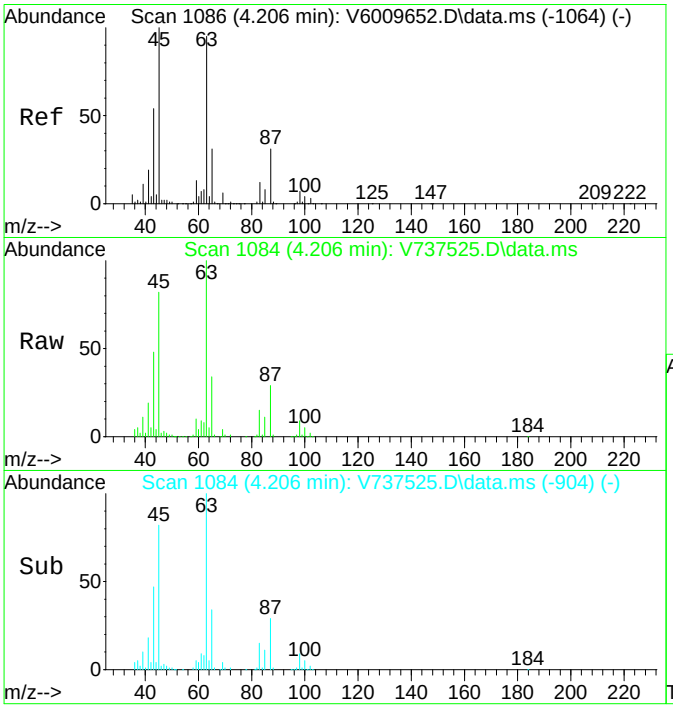


#21
tert-Butyl Methyl Ether (MTBE)
Concen: 11.14 ppb
RT: 3.758 min Scan# 923
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 73 Resp: 242937

Ion	Ratio	Lower	Upper
73	100		
73	100.0	80.0	120.0
57	18.1	13.2	39.5
43	17.6	12.8	38.3

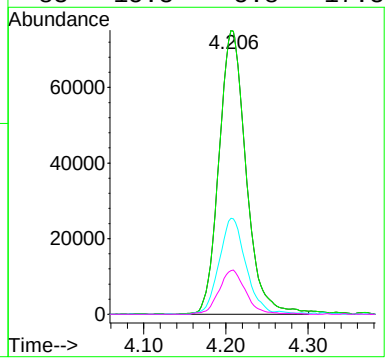


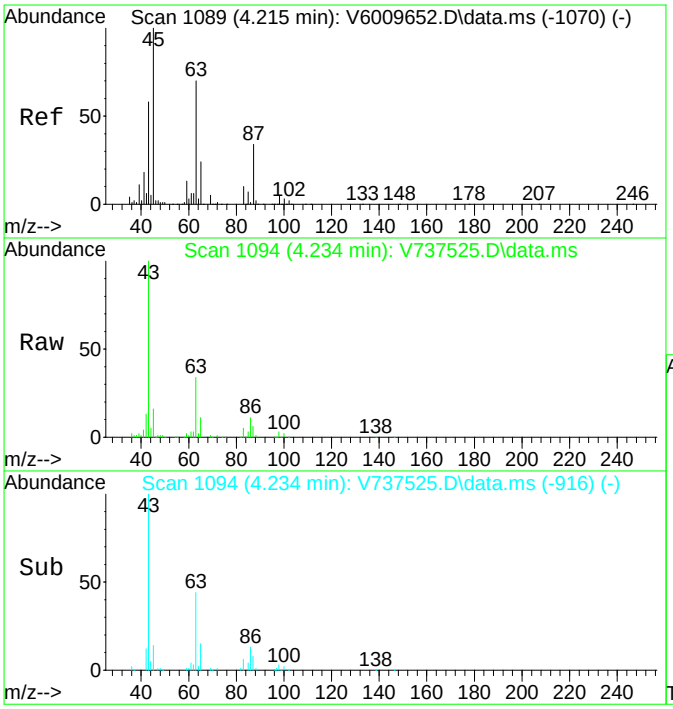


#22
1,1-Dichloroethane
Concen: 11.07 ppb
RT: 4.206 min Scan# 1084
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 63 Resp: 172197

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	33.3	19.9	41.3
83	15.3	5.8	17.3

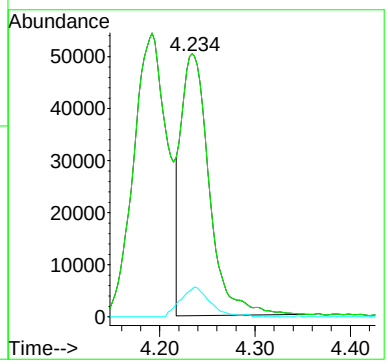


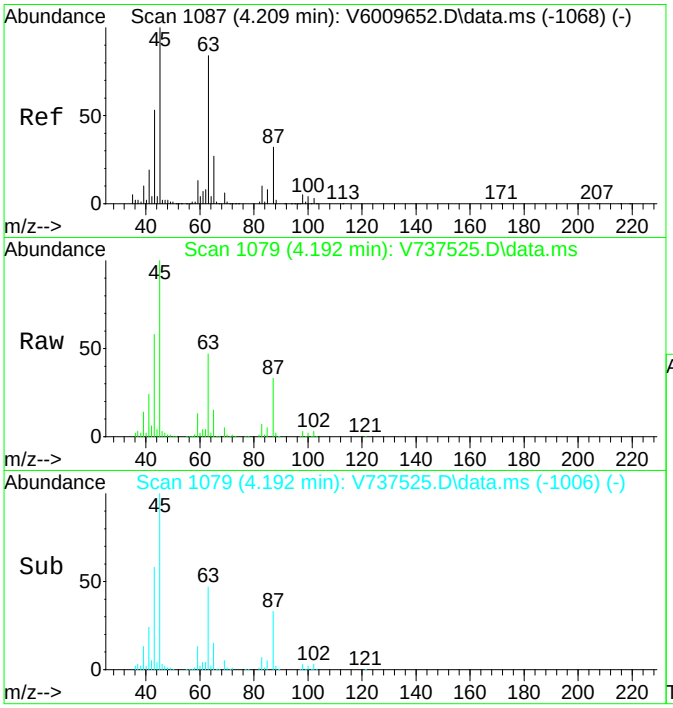


#23
Vinyl Acetate
Concen: 8.92 ppb
RT: 4.234 min Scan# 1094
Delta R.T. -0.005 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 43 Resp: 103703

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
86	11.7	0.0	0.0#

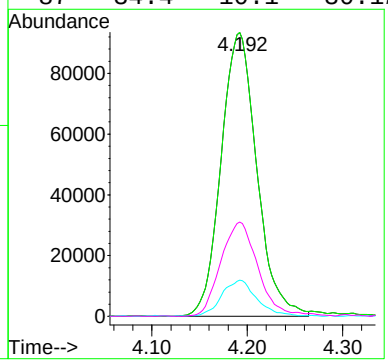


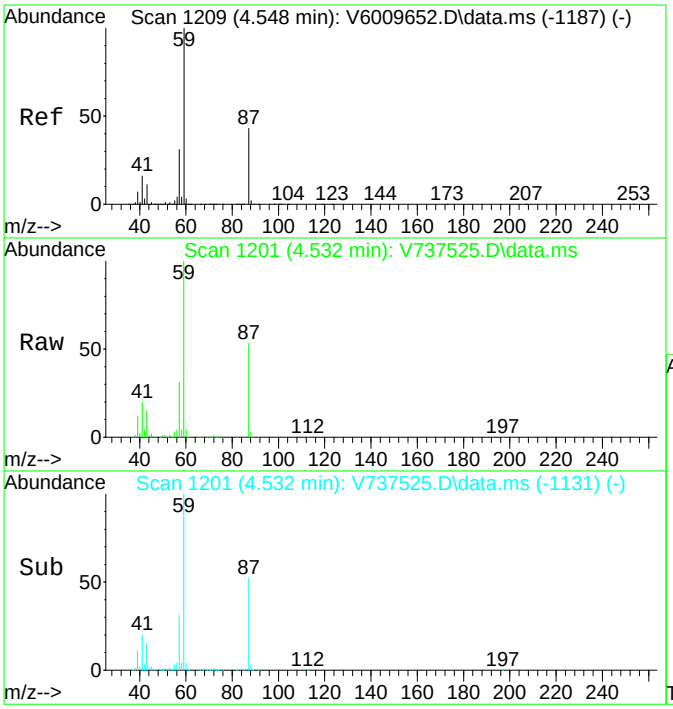


#24
Diisopropyl ether (DIPE)
Concen: 10.87 ppb
RT: 4.192 min Scan# 1079
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 45 Resp: 243400

Ion	Ratio	Lower	Upper
45	100		
45	100.0	80.0	120.0
59	12.1	5.1	15.3
87	34.4	10.1	30.1#

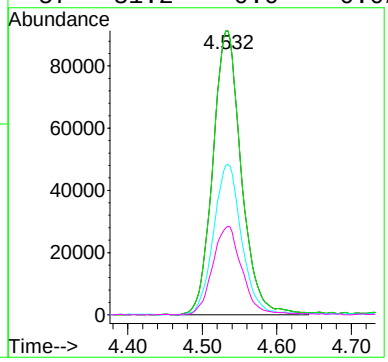


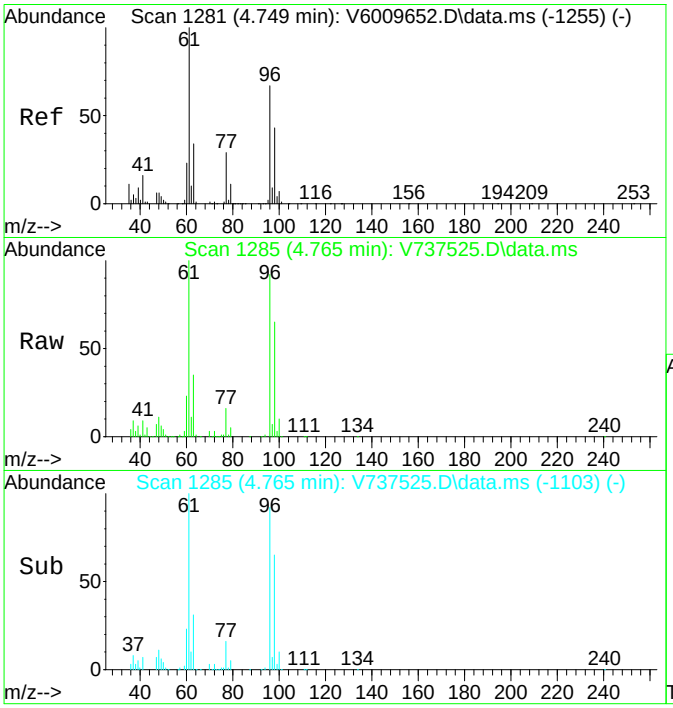


#25
Ethyl-tert-Butyl ether (ETBE)
Concen: 11.44 ppb
RT: 4.532 min Scan# 1201
Delta R.T. -0.005 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 59 Resp: 243053

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
87	52.1	17.0	51.0#
57	31.2	0.0	0.0#

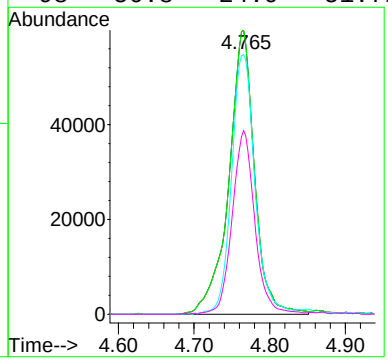


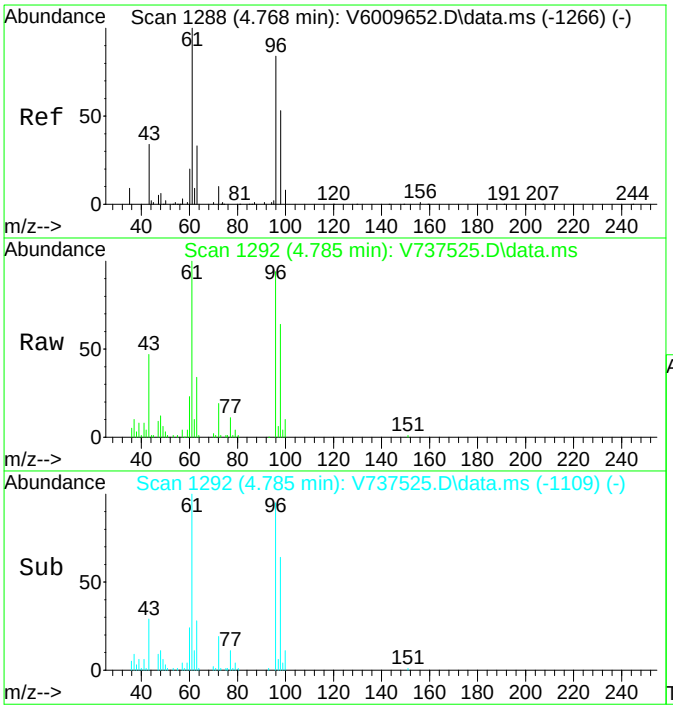


#26
cis-1,2-Dichloroethylene
Concen: 11.32 ppb
RT: 4.765 min Scan# 1285
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 61 Resp: 142408

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	83.1	37.8	78.4#
98	56.8	24.9	51.7#

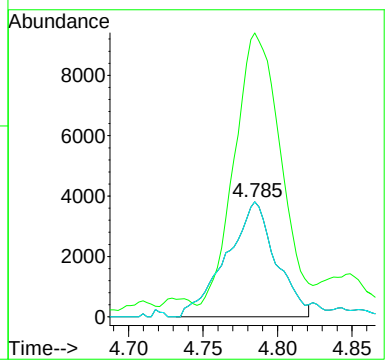


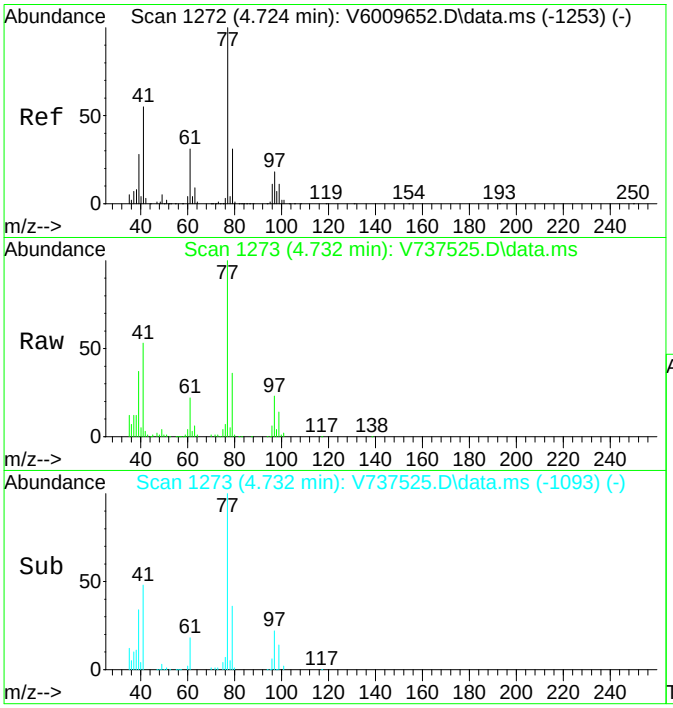


#27
2-Butanone
Concen: 11.25 ppb
RT: 4.785 min Scan# 1292
Delta R.T. 0.009 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 72 Resp: 8773

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	0.0
72	100.0	50.0	150.0

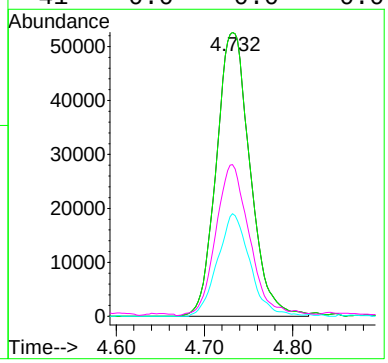


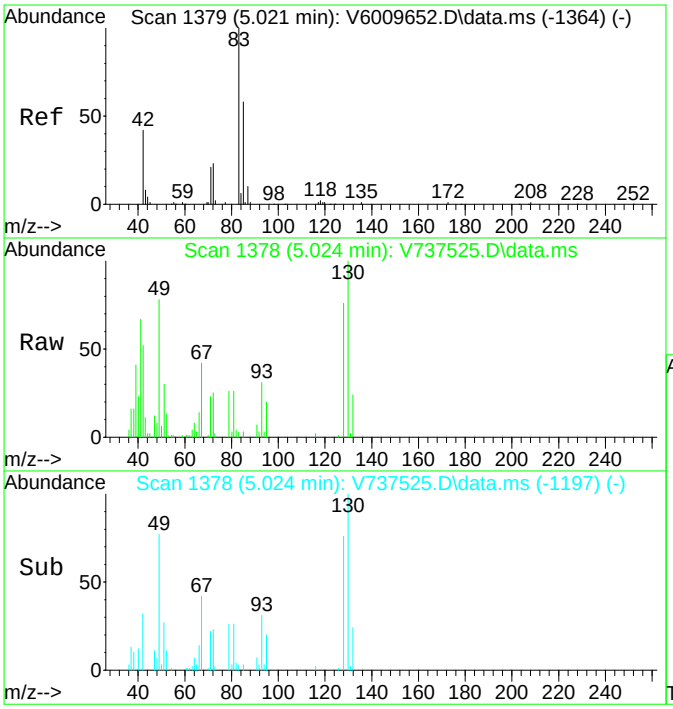


#28
2,2-Dichloropropane
Concen: 10.63 ppb
RT: 4.732 min Scan# 1273
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 77 Resp: 139707

Ion	Ratio	Lower	Upper
77	100		
77	100.0	80.0	120.0
79	34.8	20.9	43.5
41	0.0	0.0	0.0

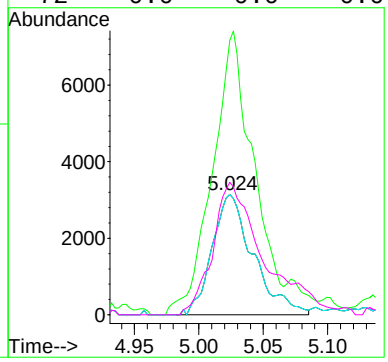


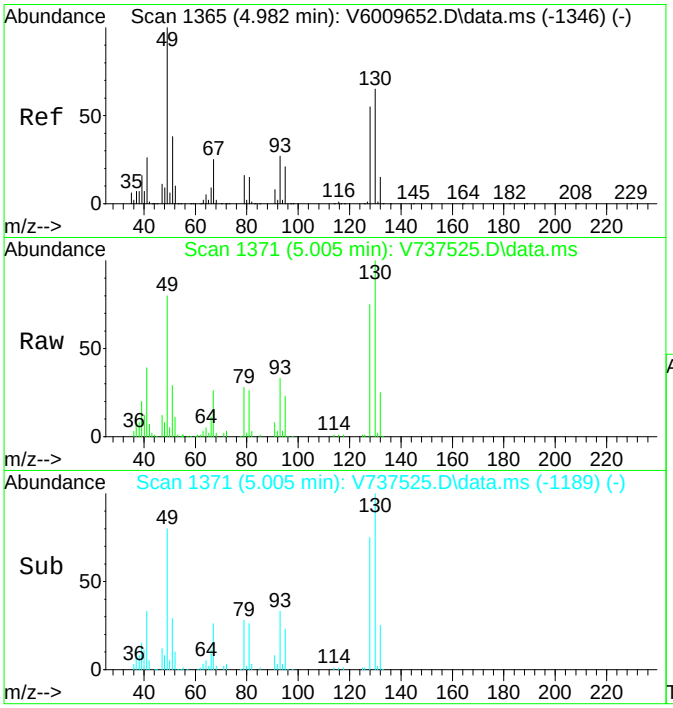


#29
Tetrahydrofuran
Concen: 9.32 ppb
RT: 5.024 min Scan# 1378
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 71 Resp: 6990

Ion	Ratio	Lower	Upper
71	100		
42	0.0	279.2	418.8#
71	100.0	50.0	150.0
72	0.0	0.0	0.0

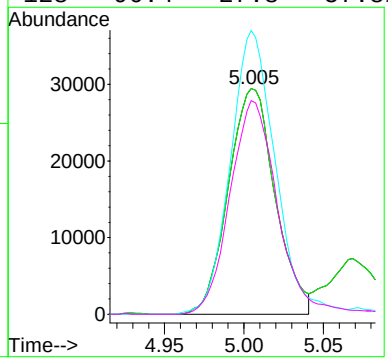


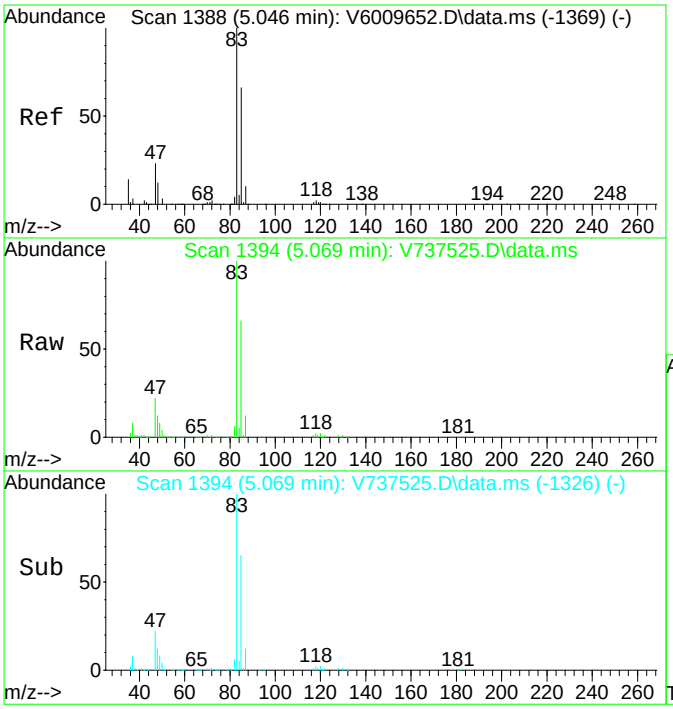


#30
Bromochloromethane
Concen: 10.77 ppb
RT: 5.005 min Scan# 1371
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 49 Resp: 60379

Ion	Ratio	Lower	Upper
49	100		
49	100.0	65.0	135.0
130	121.0	35.7	74.1#
128	96.4	27.8	57.8#

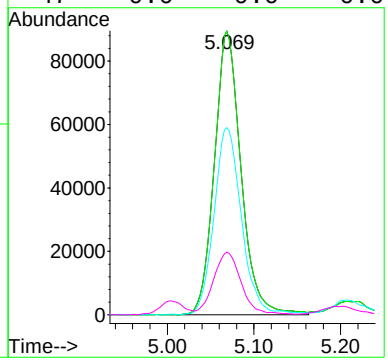


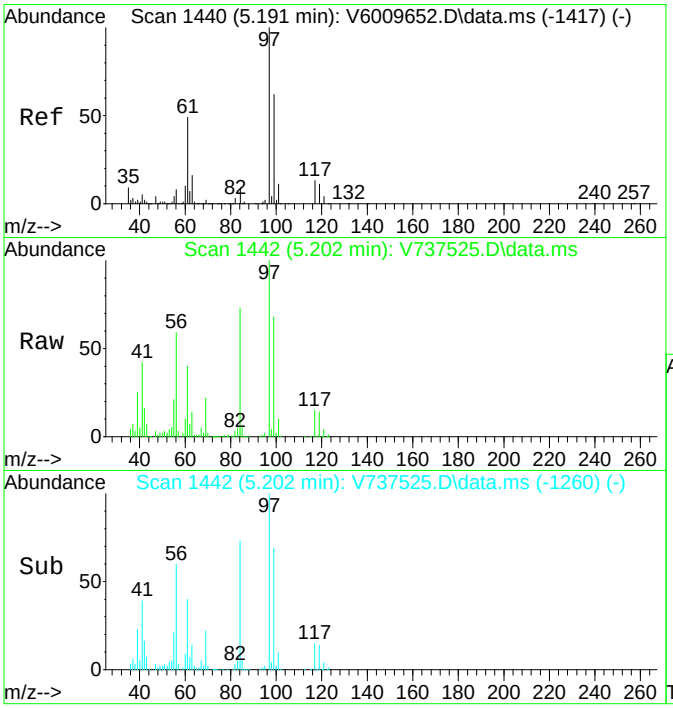


#31
Chloroform
Concen: 11.41 ppb
RT: 5.069 min Scan# 1394
Delta R.T. -0.011 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 83 Resp: 191714

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	67.1	41.8	86.8
47	0.0	0.0	0.0

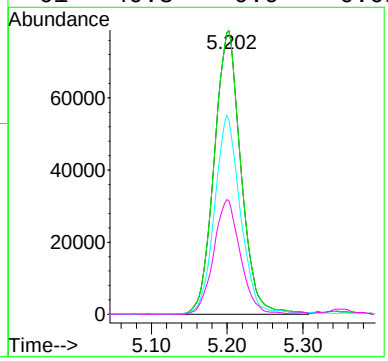


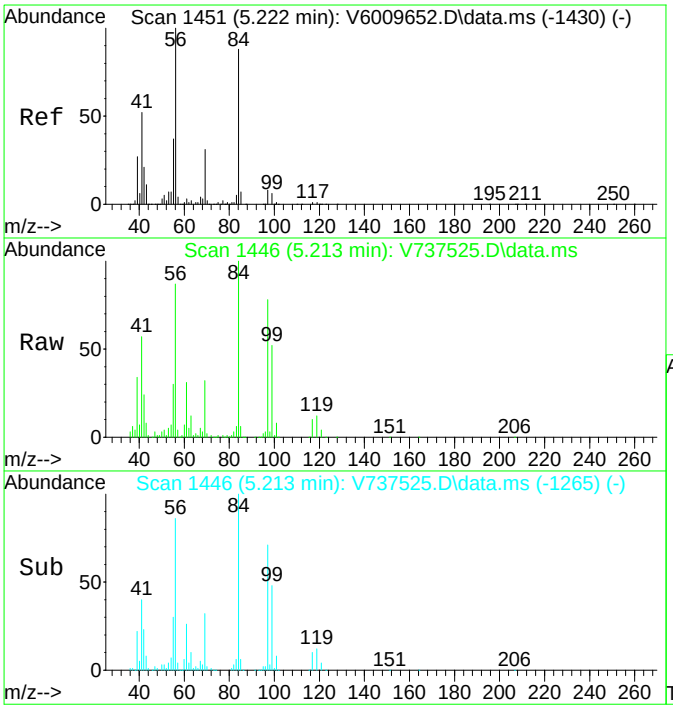


#32
1,1,1-Trichloroethane
Concen: 12.50 ppb
RT: 5.202 min Scan# 1442
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 97 Resp: 193506

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	67.0	42.3	87.9
61	40.3	0.0	0.0#

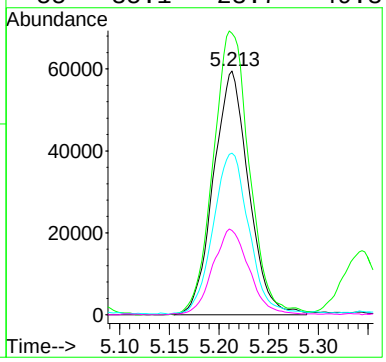


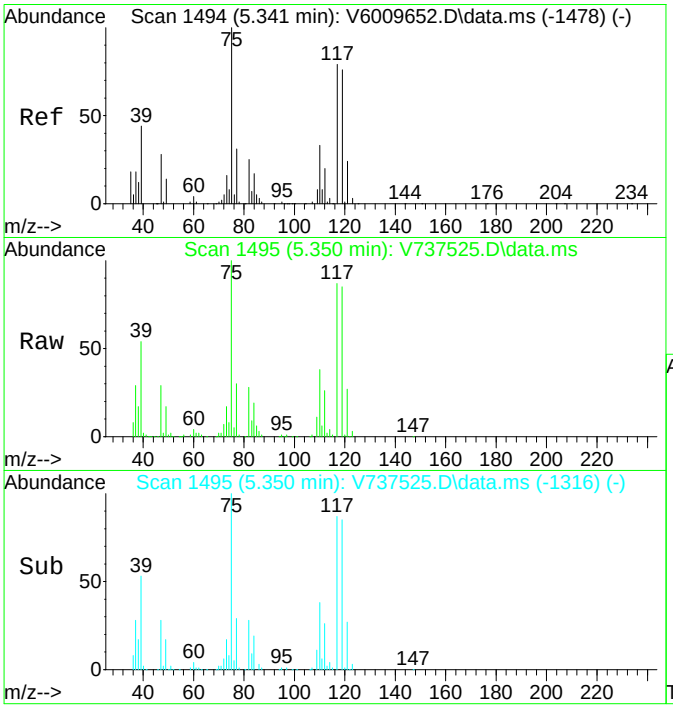


#33
Cyclohexane
Concen: 12.59 ppb
RT: 5.213 min Scan# 1446
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 56 Resp: 146837

Ion	Ratio	Lower	Upper
56	100		
84	118.9	44.2	91.8#
41	67.1	37.9	78.7
55	35.1	23.7	49.3

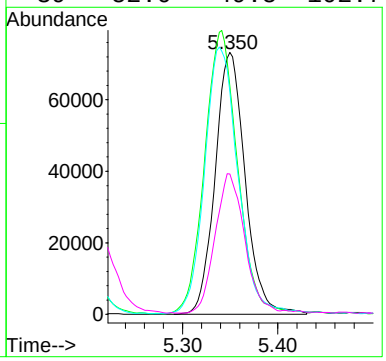


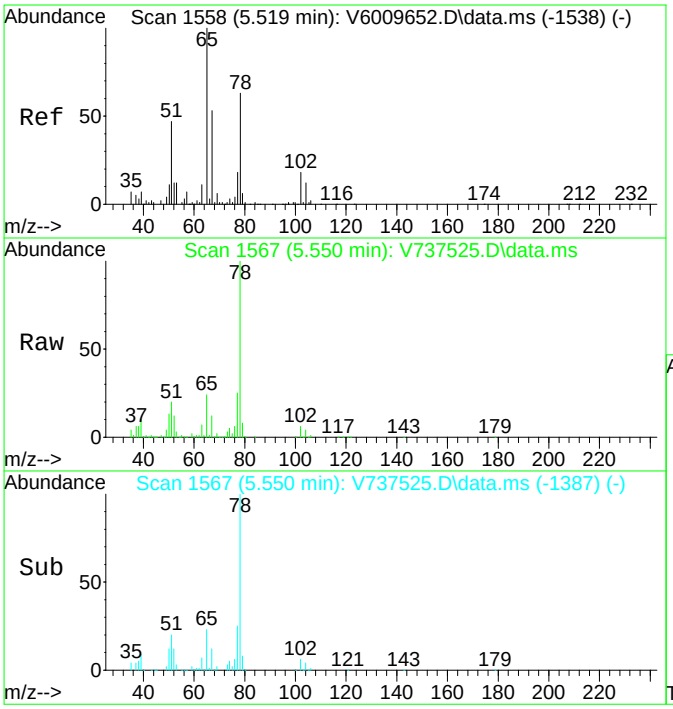


#34
1,1-Dichloropropylene
Concen: 11.78 ppb
RT: 5.350 min Scan# 1495
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 75 Resp: 160707

Ion	Ratio	Lower	Upper
75	100		
117	118.3	65.3	135.5
119	112.7	62.6	130.0
39	52.0	49.5	102.7

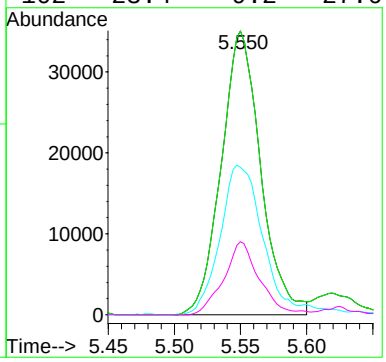


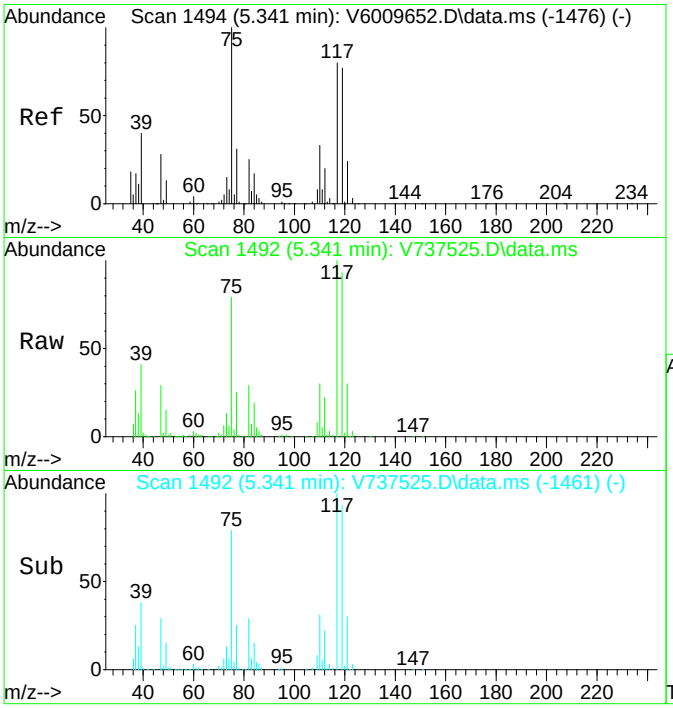


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.80 ppb
RT: 5.550 min Scan# 1567
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 65 Resp: 72616

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	0.0	33.0	68.6#
102	23.4	9.2	27.6

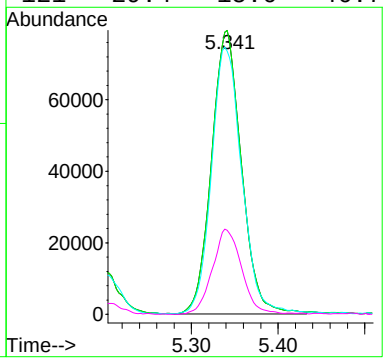


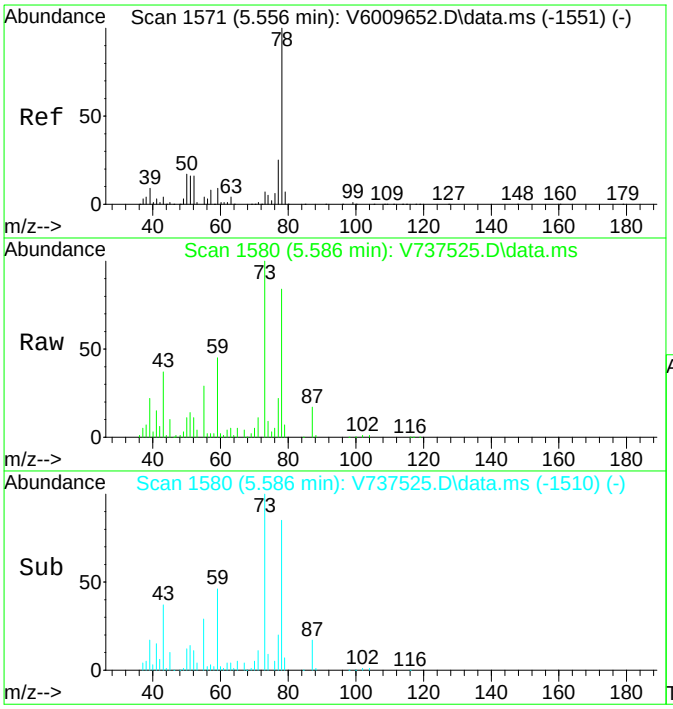


#36
Carbon Tetrachloride
Concen: 12.26 ppb
RT: 5.341 min Scan# 1492
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:117 Resp: 190110

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	95.2	62.3	129.5
121	29.4	15.6	46.7

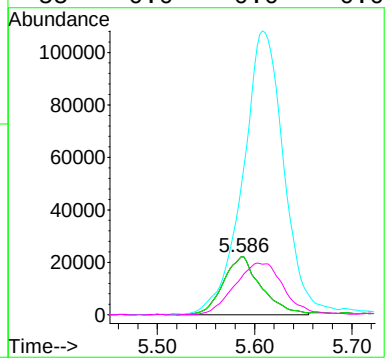


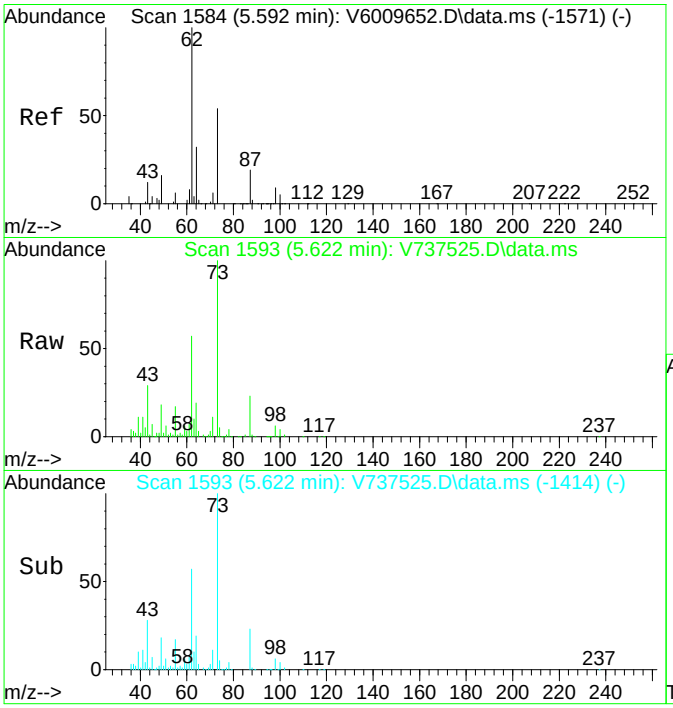


#37
tert-Amyl alcohol (TAA)
Concen: 111.33 ppb
RT: 5.586 min Scan# 1580
Delta R.T. -0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 59 Resp: 60364

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
73	0.0	22.9	68.5#
55	0.0	0.0	0.0

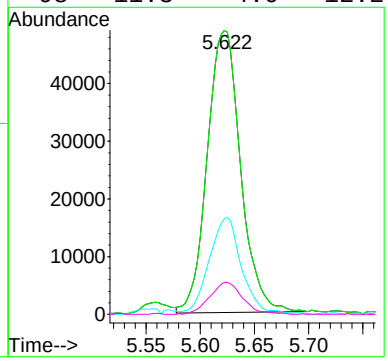


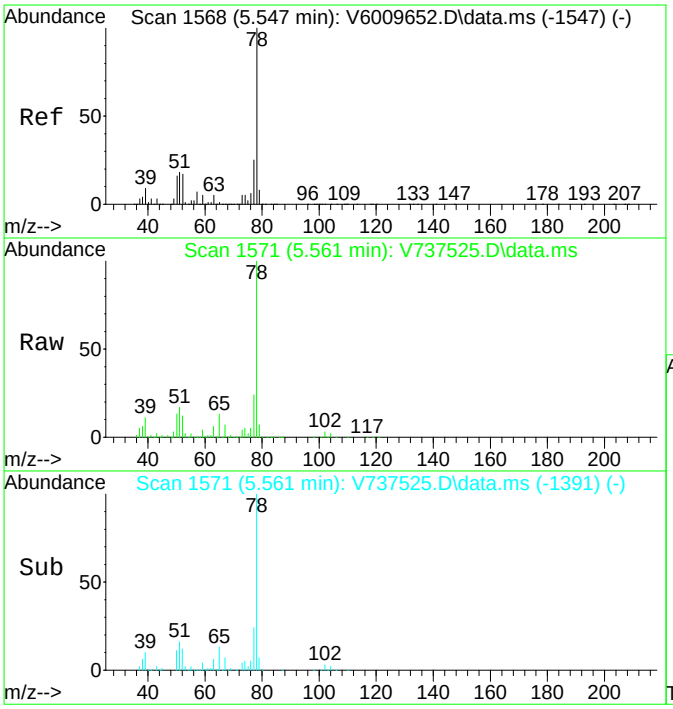


#38
1,2-Dichloroethane
Concen: 11.07 ppb
RT: 5.622 min Scan# 1593
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 62 Resp: 104895

Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	32.5	15.2	45.6
98	11.3	4.0	12.2

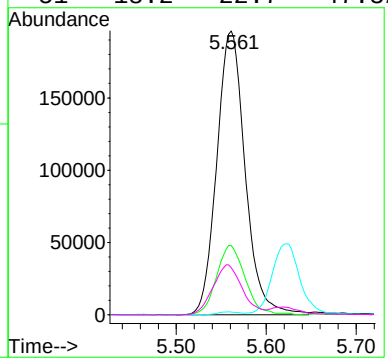


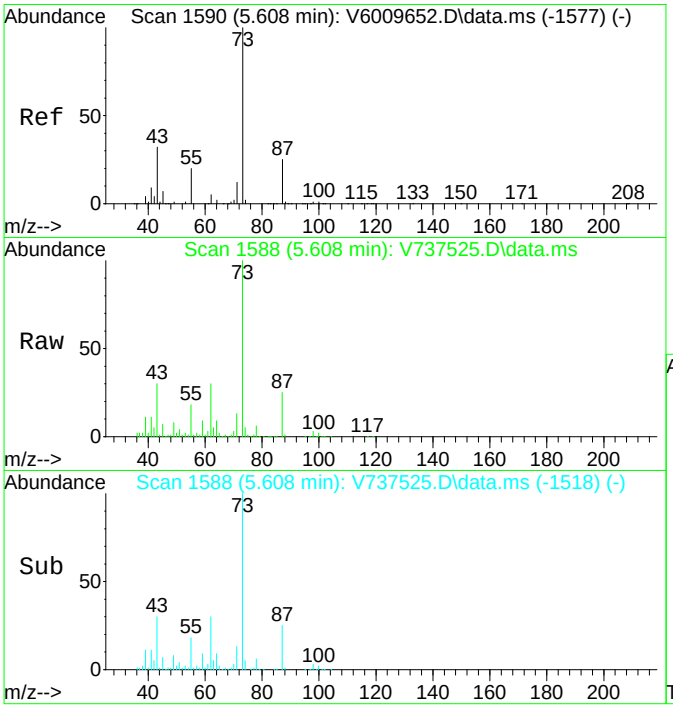


#39
Benzene
Concen: 11.65 ppb
RT: 5.561 min Scan# 1571
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 78 Resp: 430165

Ion	Ratio	Lower	Upper
78	100		
77	24.1	14.7	30.5
62	0.0	19.2	39.8#
51	18.2	22.7	47.3#

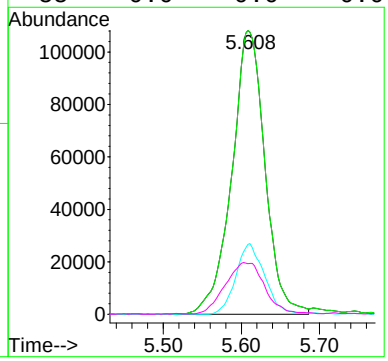


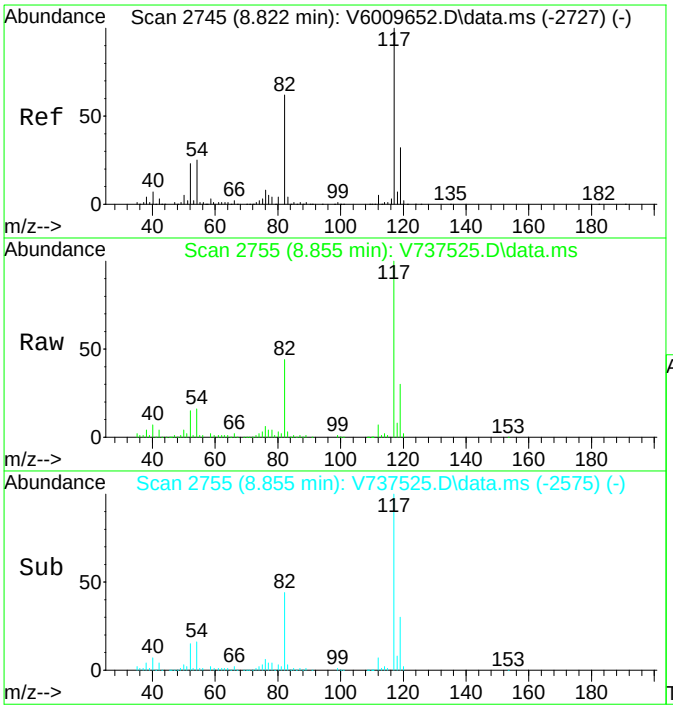


#40
tert-Amyl methyl ether (TAME)
Concen: 11.61 ppb
RT: 5.608 min Scan# 1588
Delta R.T. -0.005 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 73 Resp: 318590

Ion	Ratio	Lower	Upper
73	100		
73	100.0	79.6	119.4
87	21.6	11.9	35.5
55	0.0	0.0	0.0

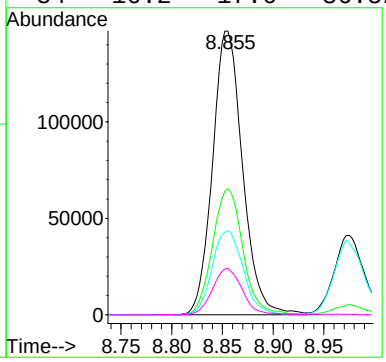


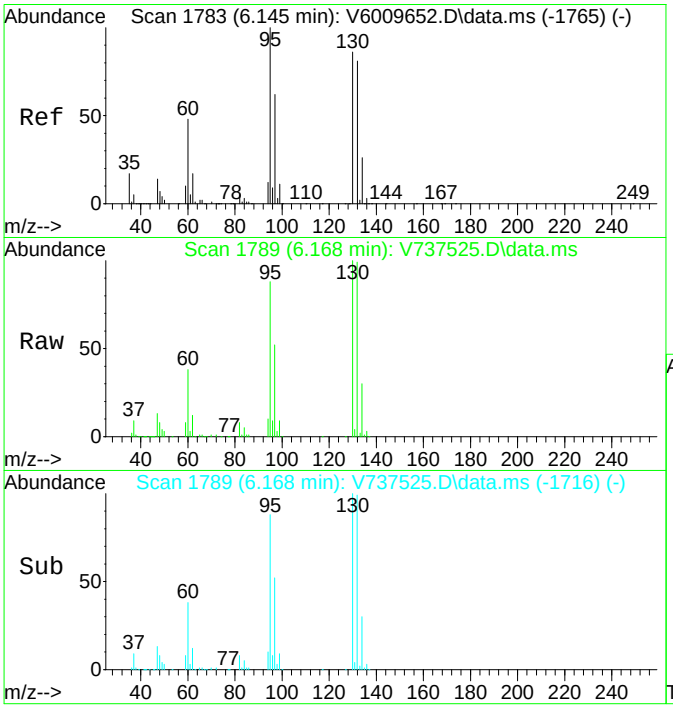


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:117 Resp: 303222

Ion	Ratio	Lower	Upper
117	100		
82	45.0	35.9	74.7
119	30.9	20.8	43.2
54	16.2	17.6	36.5#

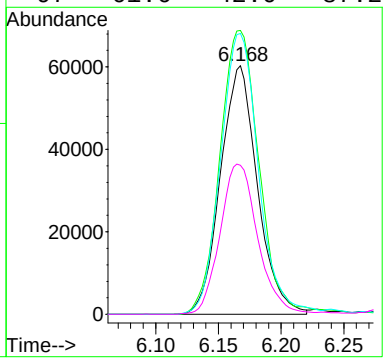


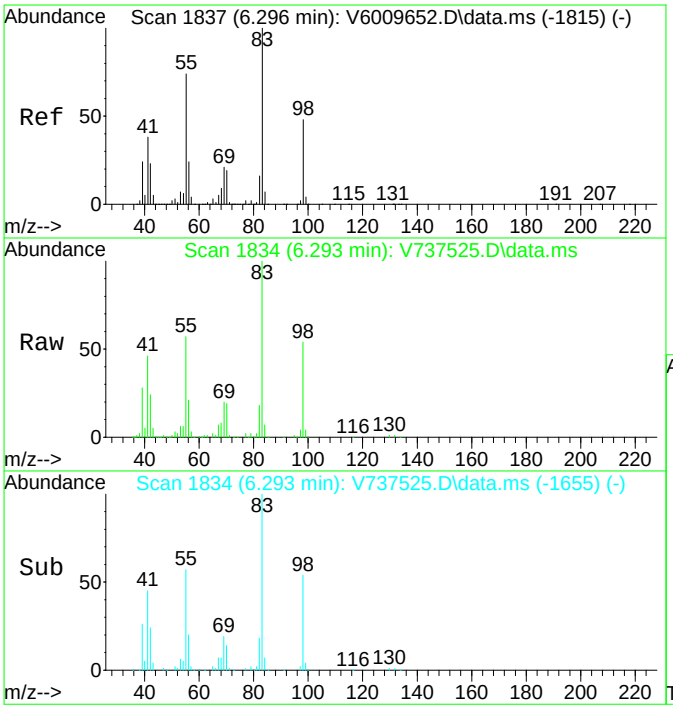


#42
Trichloroethylene
Concen: 11.40 ppb
RT: 6.168 min Scan# 1789
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 95 Resp: 123505

Ion	Ratio	Lower	Upper
95	100		
130	121.6	61.1	126.9
132	115.8	62.0	128.8
97	61.6	42.0	87.2

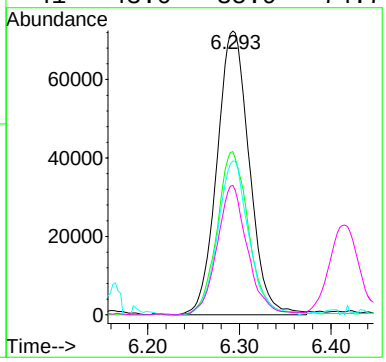


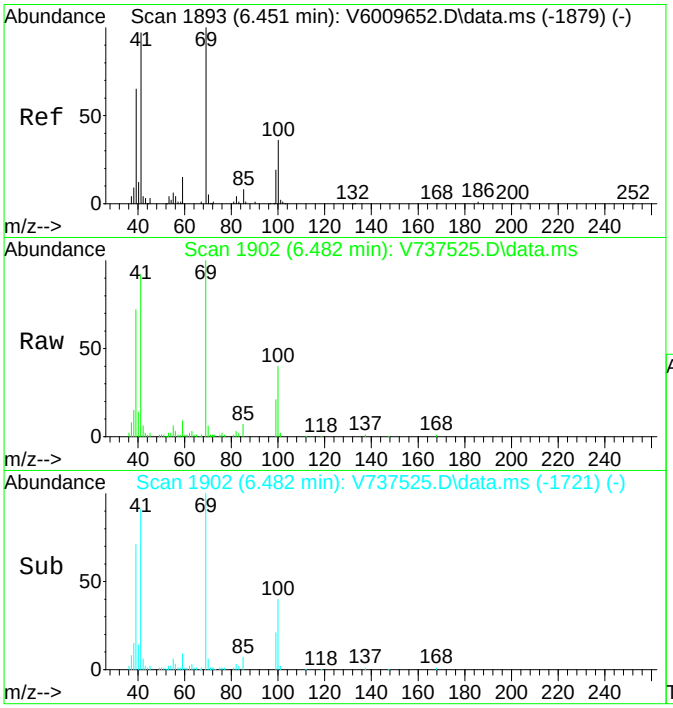


#43
Methyl Cyclohexane
Concen: 11.88 ppb
RT: 6.293 min Scan# 1834
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 83 Resp: 177488

Ion	Ratio	Lower	Upper
83	100		
55	55.7	65.5	136.1#
98	52.2	31.0	64.4
41	43.0	35.9	74.7

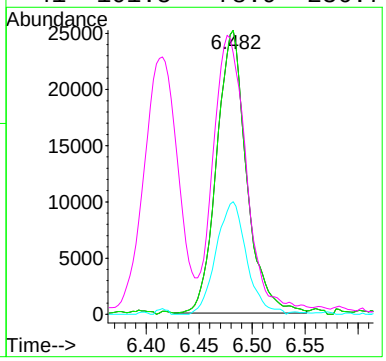


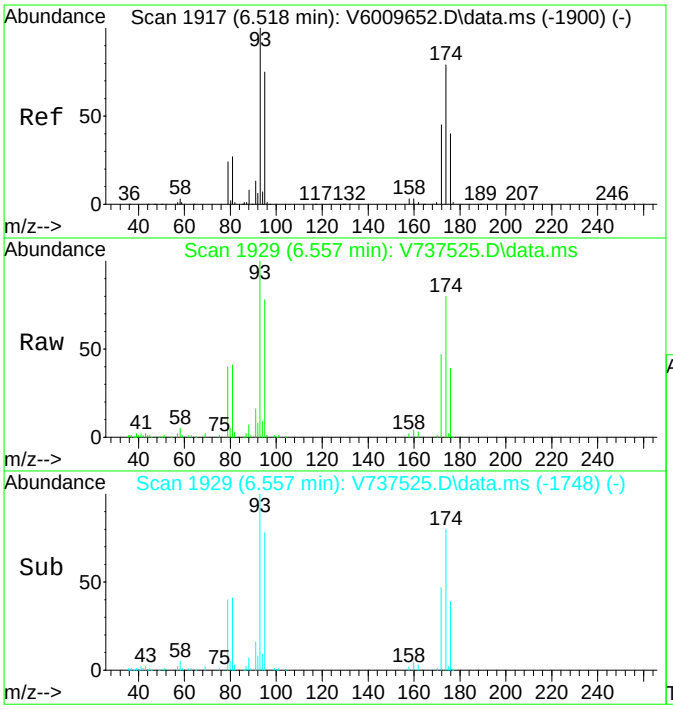


#44
Methyl Methacrylate
Concen: 10.39 ppb
RT: 6.482 min Scan# 1902
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 69 Resp: 49664

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	0.0	0.0	0.0
41	101.5	78.9	236.7

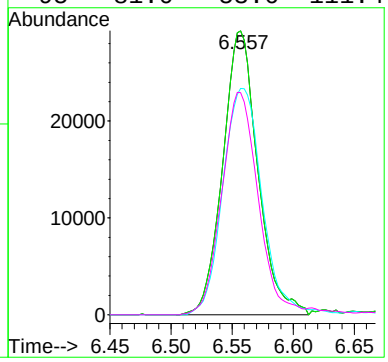


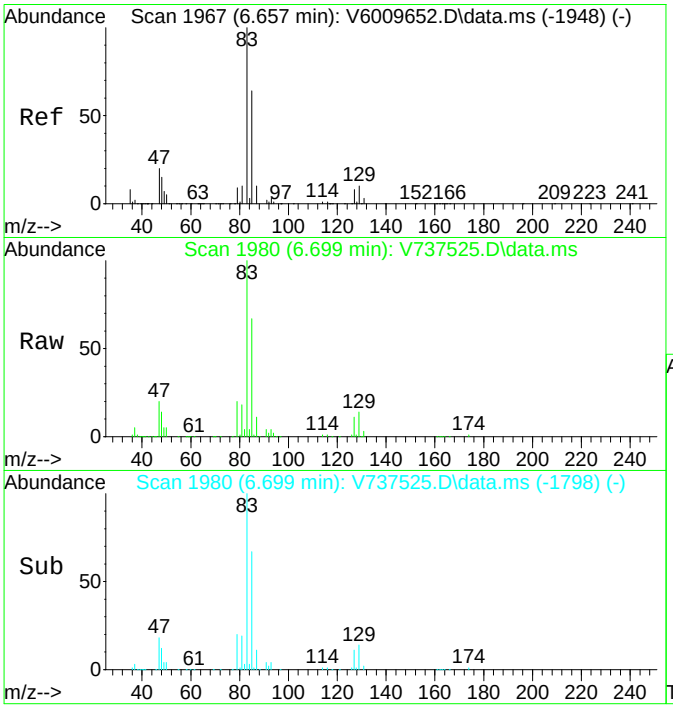


#45
Dibromomethane
Concen: 10.55 ppb
RT: 6.557 min Scan# 1929
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 93 Resp: 58655

Ion	Ratio	Lower	Upper
93	100		
93	100.0	65.0	135.0
174	0.0	60.5	125.6#
95	81.0	53.6	111.4

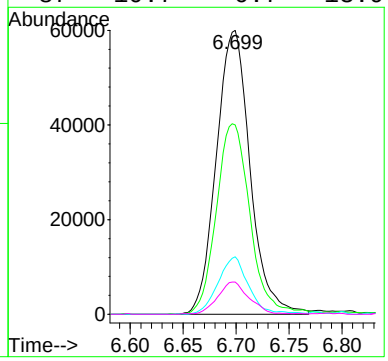


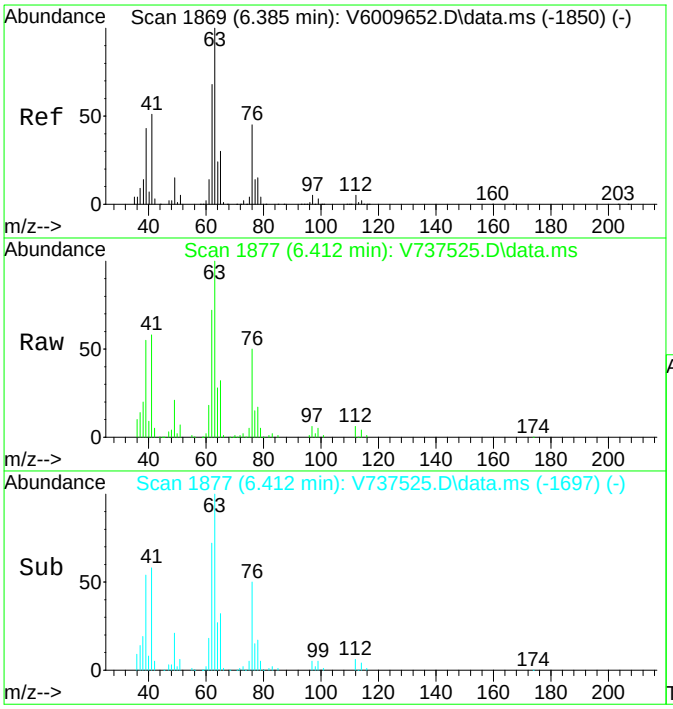


#46
Bromodichloromethane
Concen: 10.81 ppb
RT: 6.699 min Scan# 1980
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 83 Resp: 133336

Ion	Ratio	Lower	Upper
83	100		
85	66.3	41.0	85.0
47	17.9	15.9	33.1
87	10.7	6.7	13.9

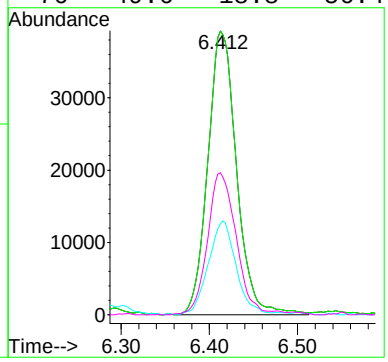


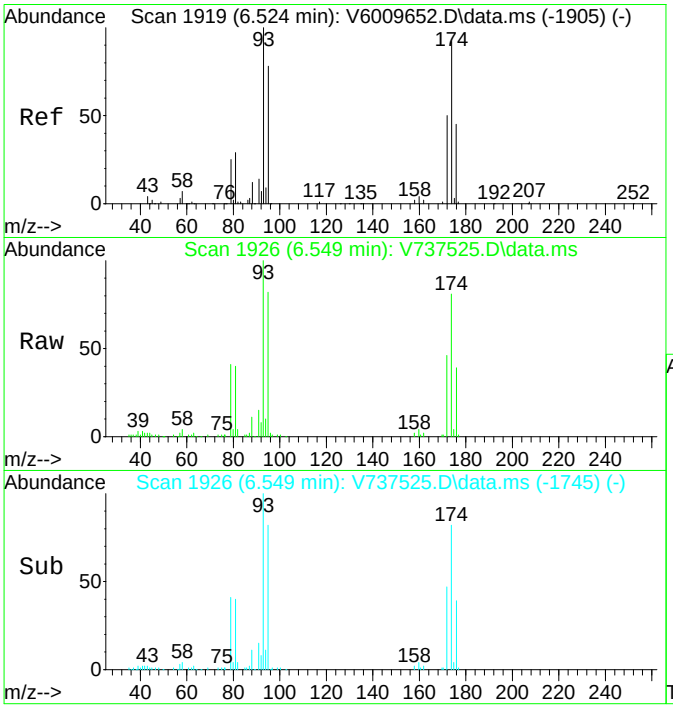


#47
1,2-Dichloropropane
Concen: 10.21 ppb
RT: 6.412 min Scan# 1877
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 63 Resp: 89052

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	31.9	14.5	43.6
76	49.6	18.8	56.4

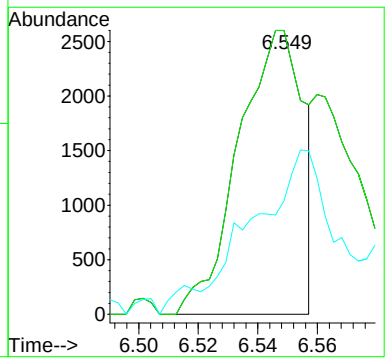


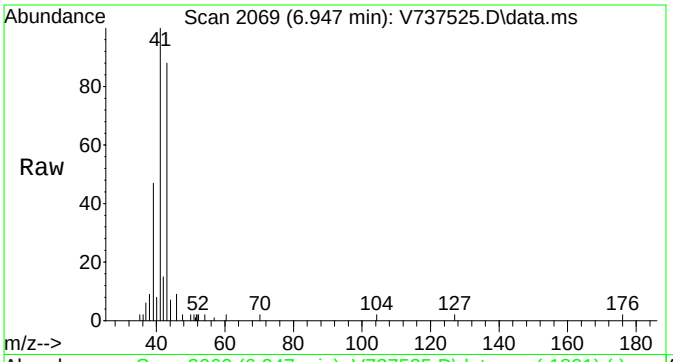


#48
1,4-Dioxane
Concen: 118.01 ppb
RT: 6.549 min Scan# 1926
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 88 Resp: 3916

Ion	Ratio	Lower	Upper
88	100		
88	100.0	80.0	120.0
58	69.1	30.8	92.3

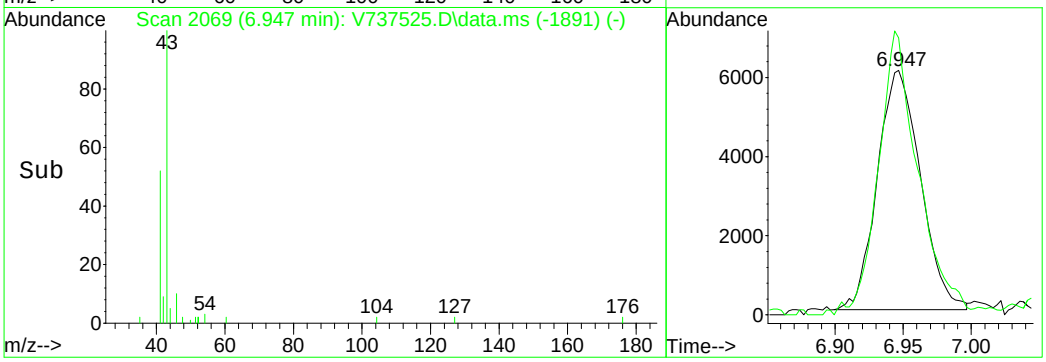


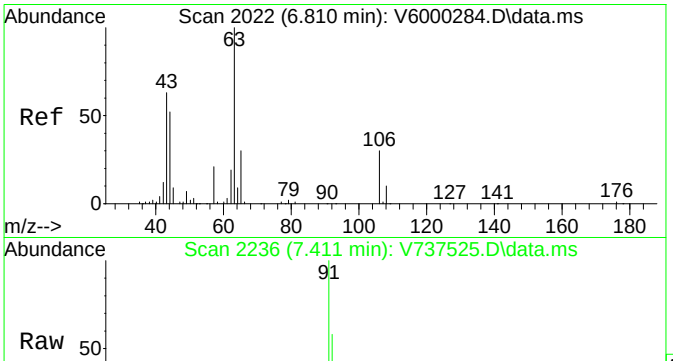


#49
2-Nitropropane
Concen: 5.88 ppb
RT: 6.947 min Scan# 2069
Delta R.T. -0.005 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 43 Resp: 13334

Ion	Ratio	Lower	Upper
43	100		
41	102.8	29.7	44.5#

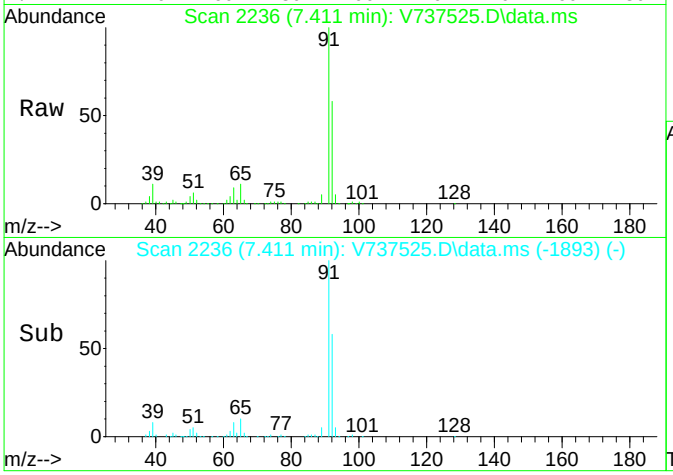


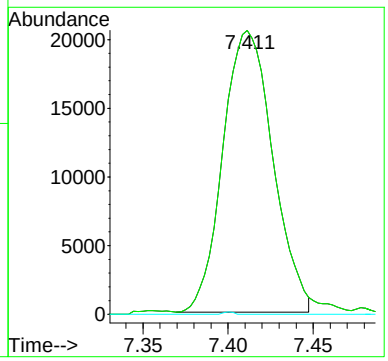


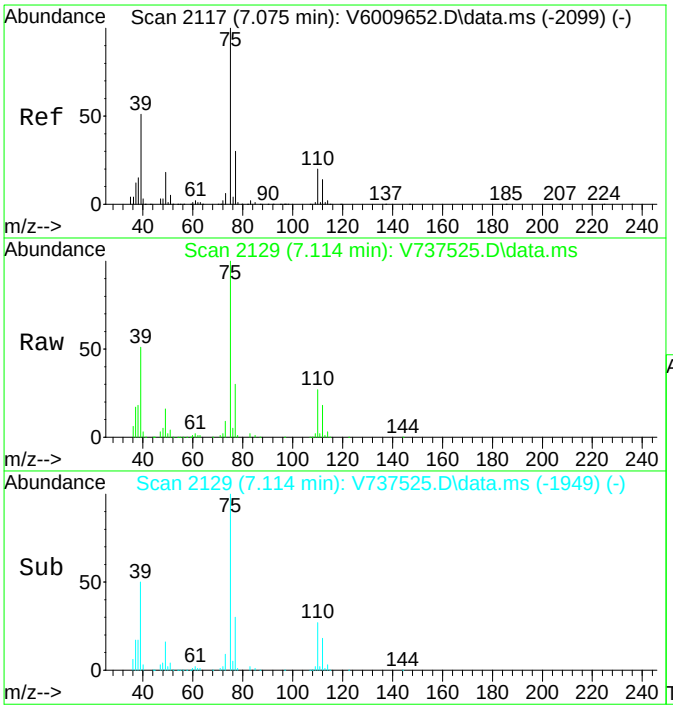
#50
2-Chloroethyl vinyl ether
Concen: 20.95 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.454 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 63 Resp: 41927

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
106	0.2	12.0	36.1#



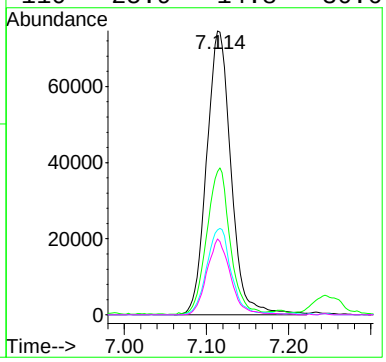


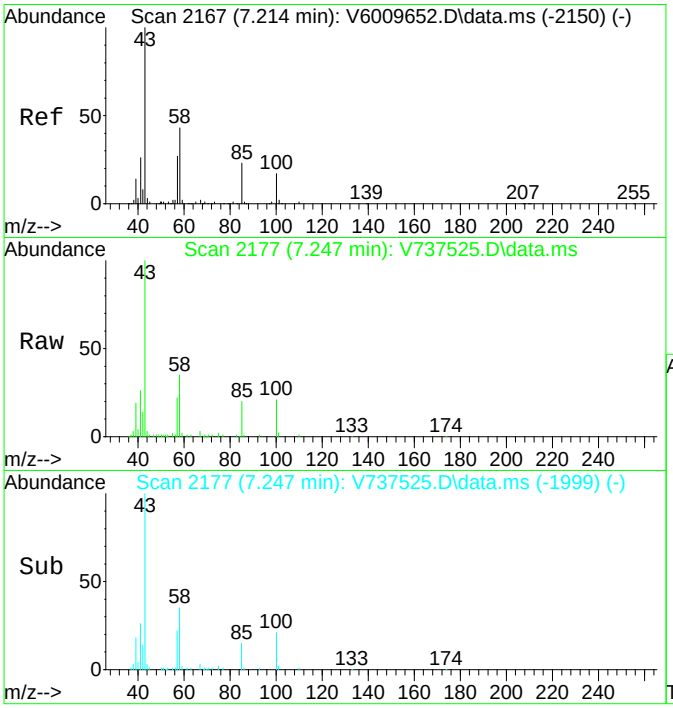


#51
cis-1,3-Dichloropropene
Concen: 10.98 ppb
RT: 7.114 min Scan# 2129
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 75 Resp: 154541

Ion	Ratio	Lower	Upper
75	100		
39	48.3	41.8	86.8
77	30.1	20.1	41.7
110	25.9	14.8	30.6

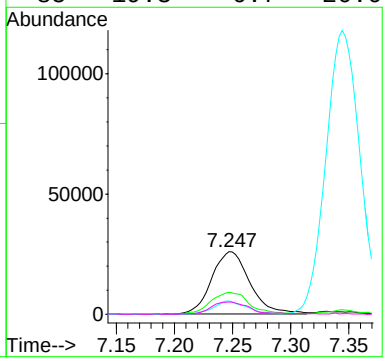


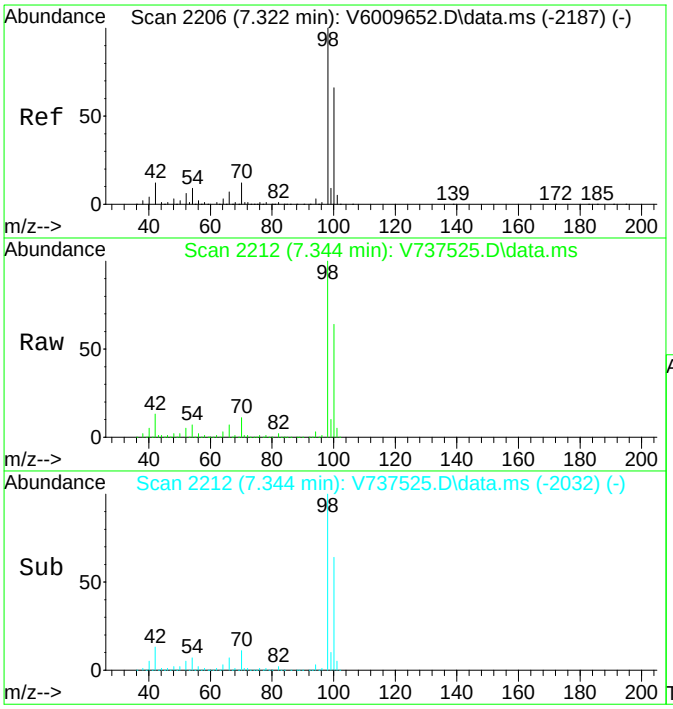


#52
4-Methyl-2-Pentanone
Concen: 11.65 ppb
RT: 7.247 min Scan# 2177
Delta R.T. -0.005 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 43 Resp: 59349

Ion	Ratio	Lower	Upper
43	100		
58	35.6	23.8	49.4
100	18.4	5.8	17.3#
85	19.3	6.7	20.0

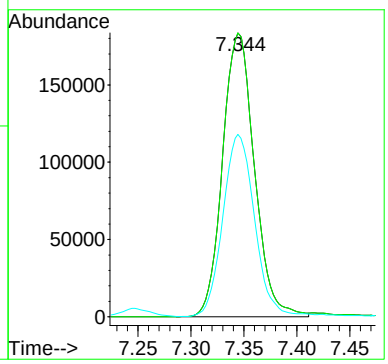


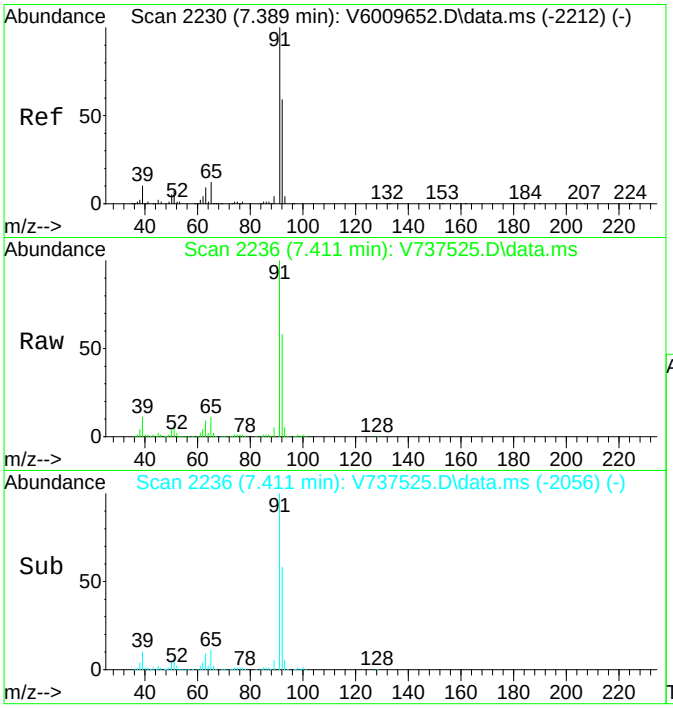


#53
Toluene-d8 (SURR)
Concen: 9.84 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 98 Resp: 384174

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	63.7	43.4	90.2

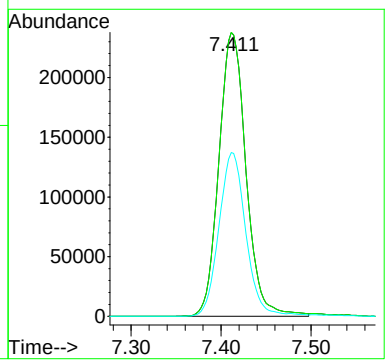


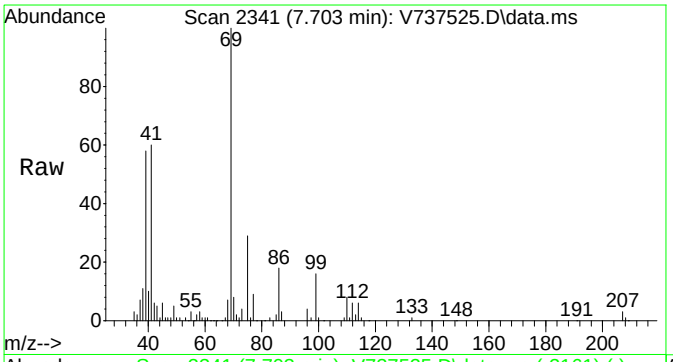


#54
Toluene
Concen: 11.14 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 498567

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	56.7	38.4	79.7

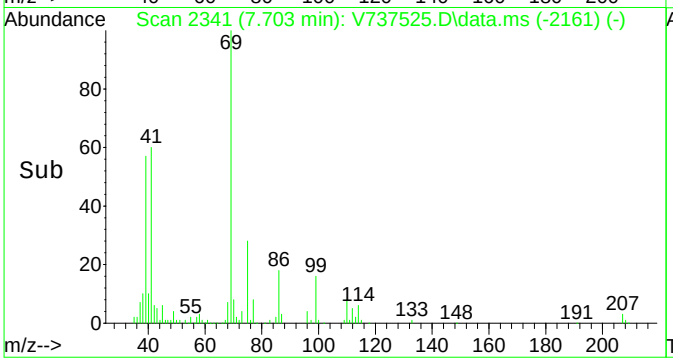


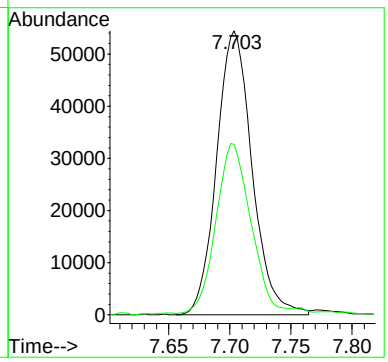


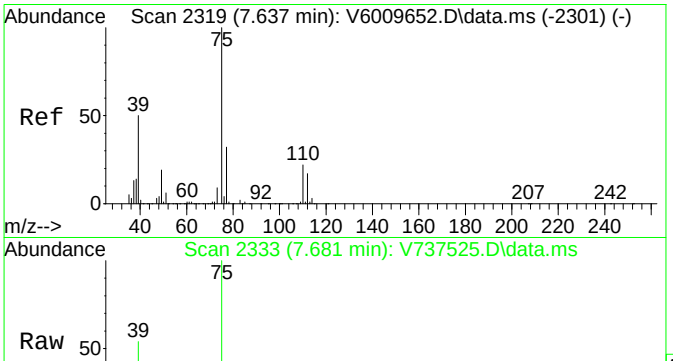
#55
Ethyl Methacrylate
Concen: 11.18 ppb
RT: 7.703 min Scan# 2341
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 69 Resp: 109957

Ion	Ratio	Lower	Upper
69	100		
41	58.5	125.7	188.5#



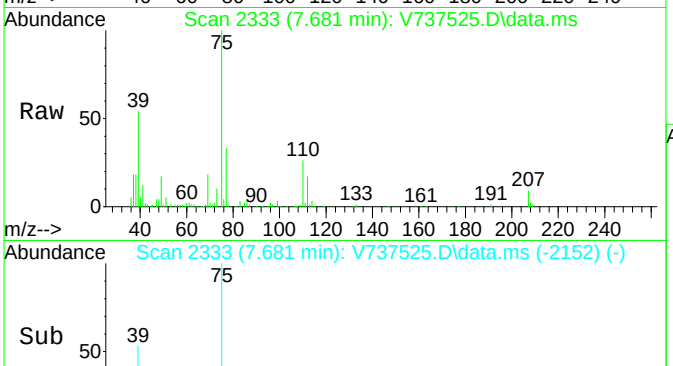


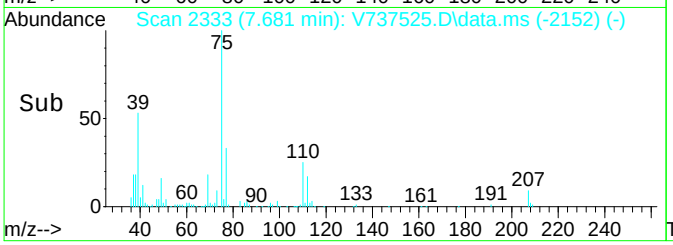


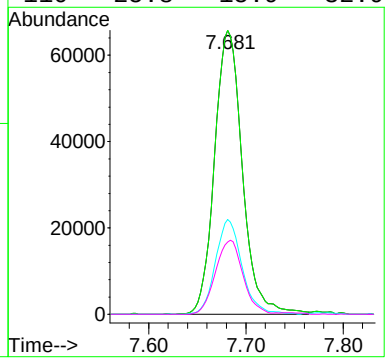
#56
trans-1,3-Dichloropropene
Concen: 10.89 ppb
RT: 7.681 min Scan# 2333
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

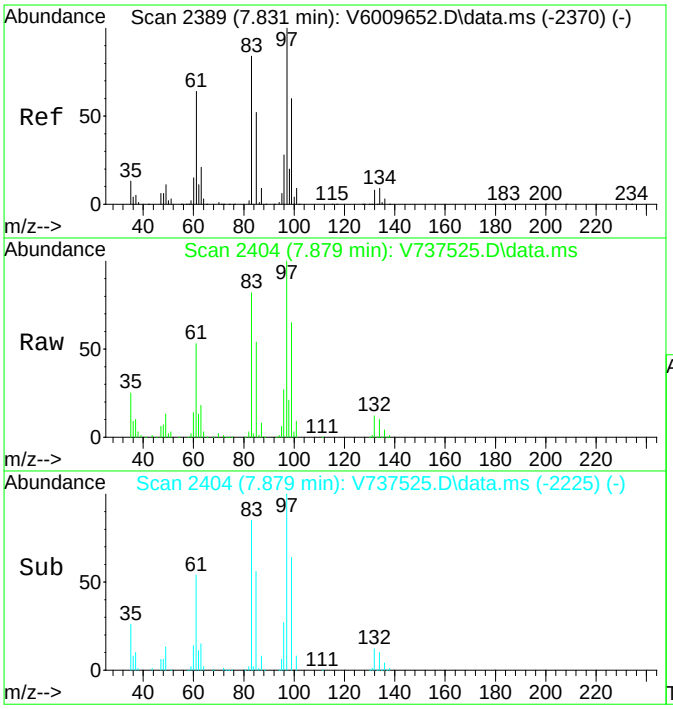
Tgt Ion: 75 Resp: 131039

Ion	Ratio	Lower	Upper
75	100		
75	100.0	65.0	135.0
77	31.8	20.3	42.3
110	25.8	15.9	32.9





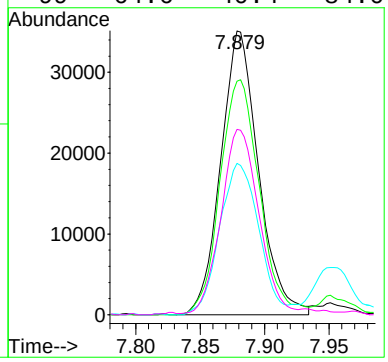


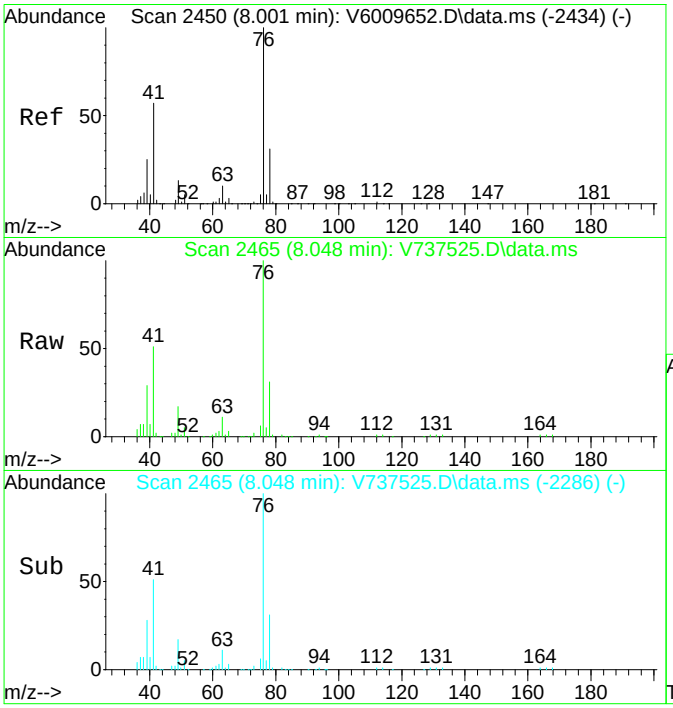


#57
1,1,2-Trichloroethane
Concen: 10.37 ppb
RT: 7.879 min Scan# 2404
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 97 Resp: 71460

Ion	Ratio	Lower	Upper
97	100		
83	86.6	54.1	112.5
61	55.4	44.3	91.9
99	64.6	40.4	84.0

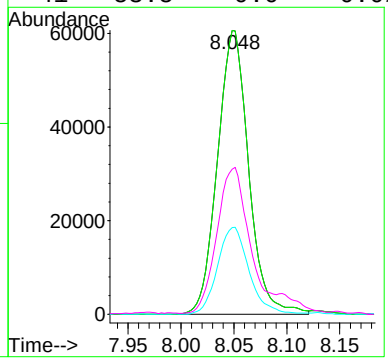


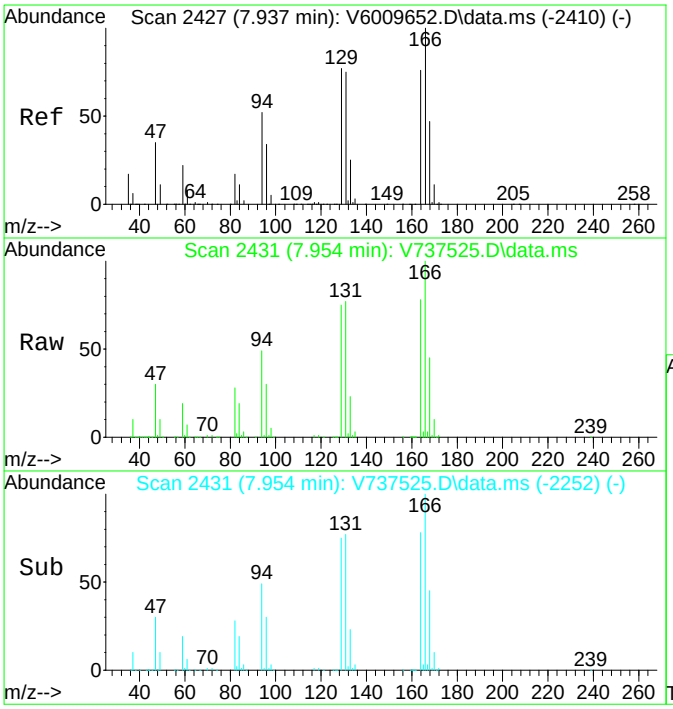


#58
1,3-Dichloropropane
Concen: 10.71 ppb
RT: 8.048 min Scan# 2465
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 76 Resp: 124339

Ion	Ratio	Lower	Upper
76	100		
76	100.0	80.0	120.0
78	31.1	16.4	49.2
41	53.5	0.0	0.0#

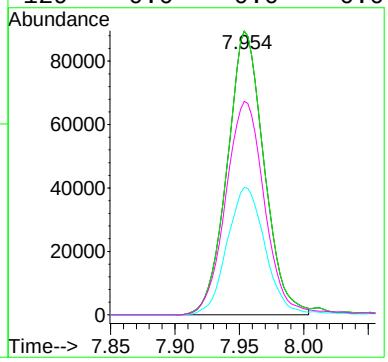


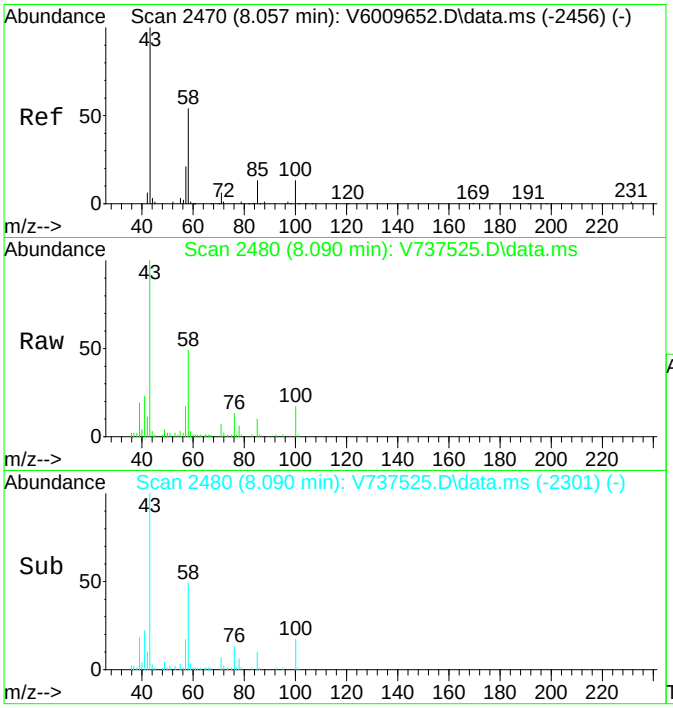


#59
Tetrachloroethylene
Concen: 13.44 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:166 Resp: 177637

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	47.0	0.0	0.0#
129	0.0	0.0	0.0

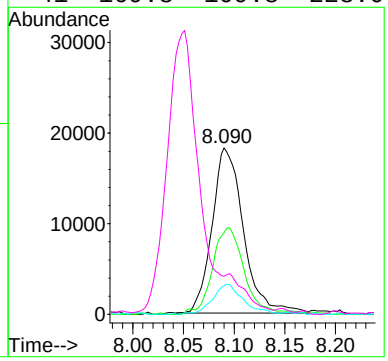


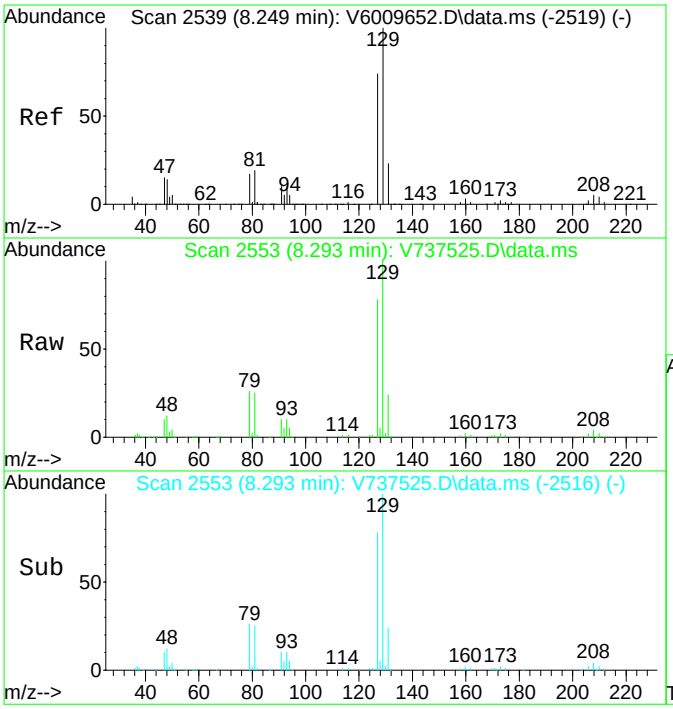


#60
2-Hexanone
Concen: 10.75 ppb
RT: 8.090 min Scan# 2480
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 43 Resp: 39212

Ion	Ratio	Lower	Upper
43	100		
58	48.9	33.0	68.6
57	17.8	11.1	23.1
41	169.8	109.8	228.0

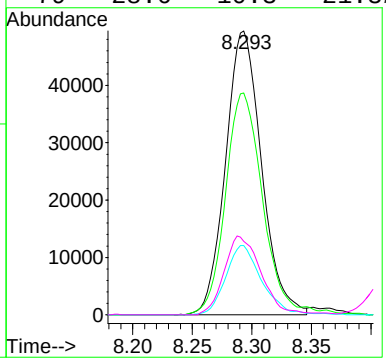


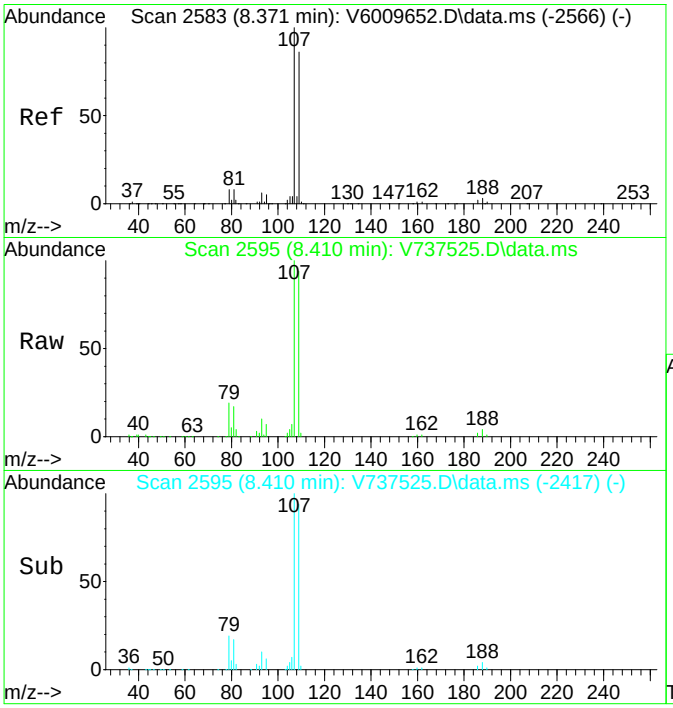


#61
Dibromochloromethane
Concen: 11.70 ppb
RT: 8.293 min Scan# 2553
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:129 Resp: 104209

Ion	Ratio	Lower	Upper
129	100		
127	79.4	49.8	103.4
131	24.4	16.1	33.5
79	28.6	10.3	21.3#

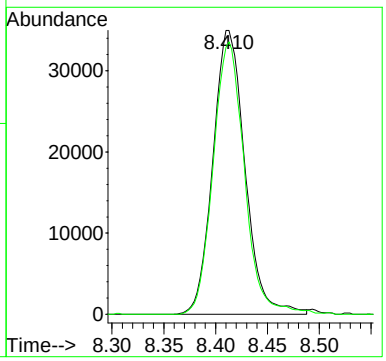


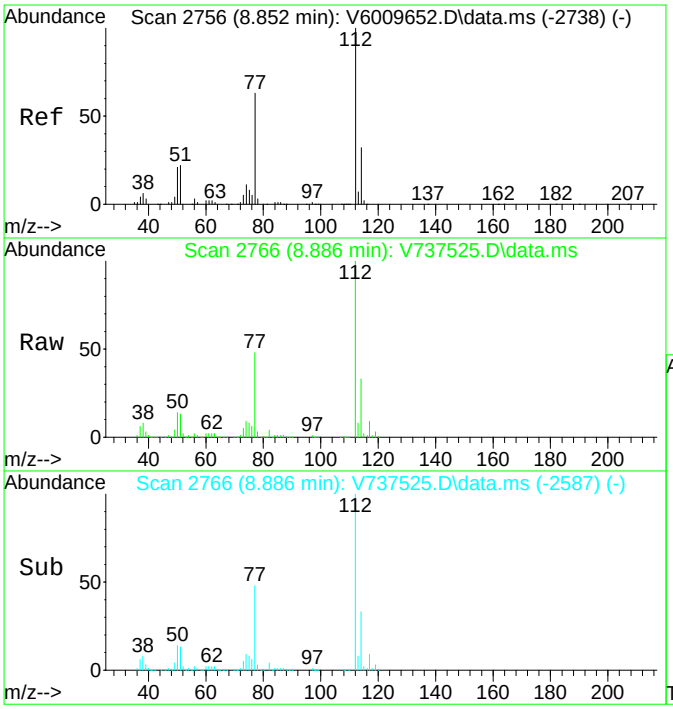


#62
1,2-Dibromoethane
Concen: 10.76 ppb
RT: 8.410 min Scan# 2595
Delta R.T. -0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:107 Resp: 75508

Ion	Ratio	Lower	Upper
107	100		
109	93.6	62.0	128.8

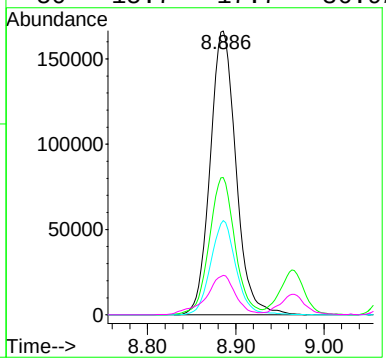


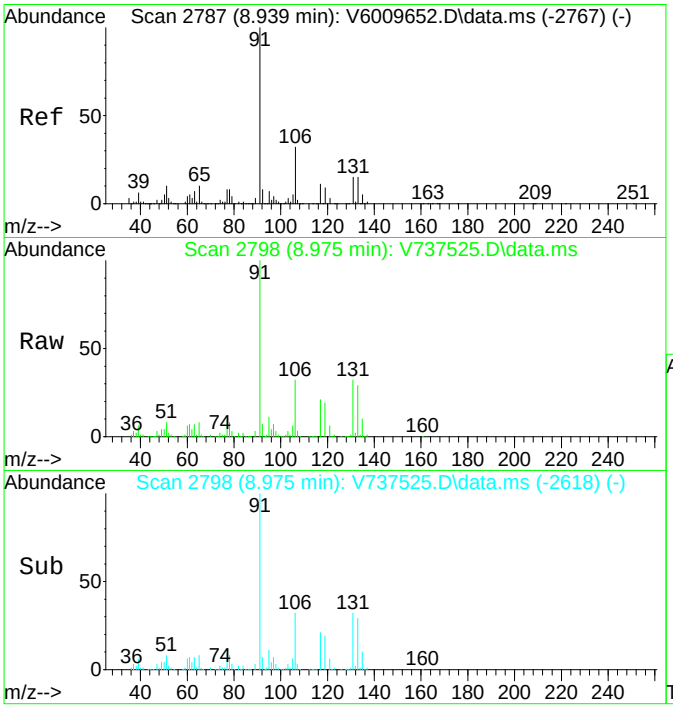


#63
Chlorobenzene
Concen: 10.62 ppb
RT: 8.886 min Scan# 2766
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:112 Resp: 338542

Ion	Ratio	Lower	Upper
112	100		
77	48.3	38.9	80.7
114	32.5	20.5	42.7
50	15.7	17.7	36.9#

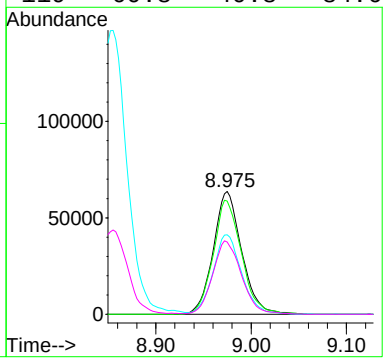


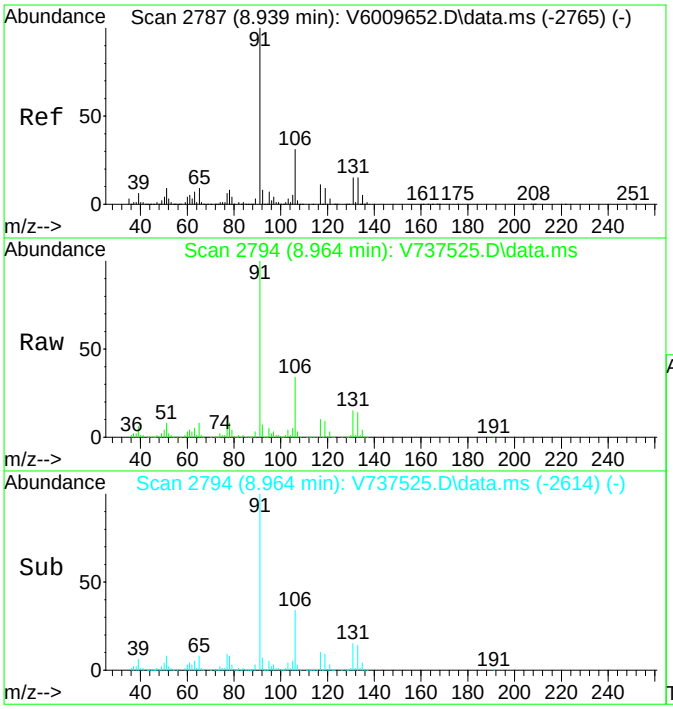


#64
1,1,1,2-tetrachloroethane
Concen: 11.08 ppb
RT: 8.975 min Scan# 2798
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:131 Resp: 132163

Ion	Ratio	Lower	Upper
131	100		
133	92.2	61.5	127.7
117	65.1	42.6	88.6
119	60.8	40.8	84.6

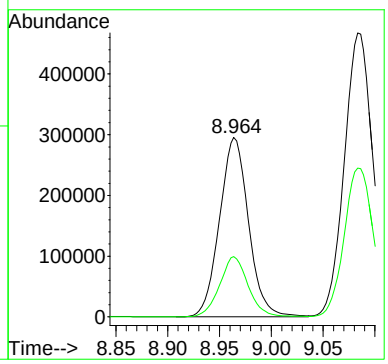


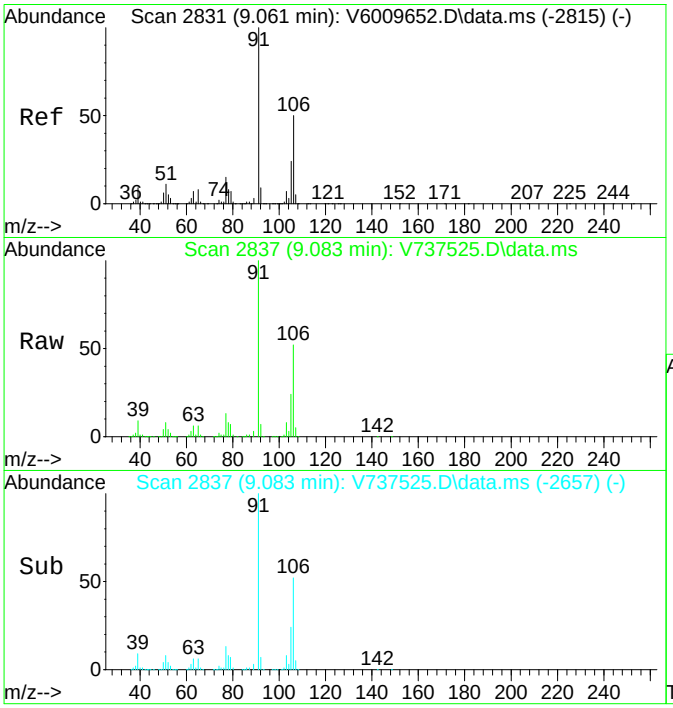


#65
Ethyl Benzene
Concen: 11.28 ppb
RT: 8.964 min Scan# 2794
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 577087

Ion	Ratio	Lower	Upper
91	100		
106	33.0	20.0	41.6

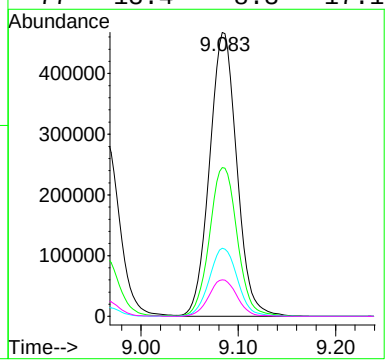


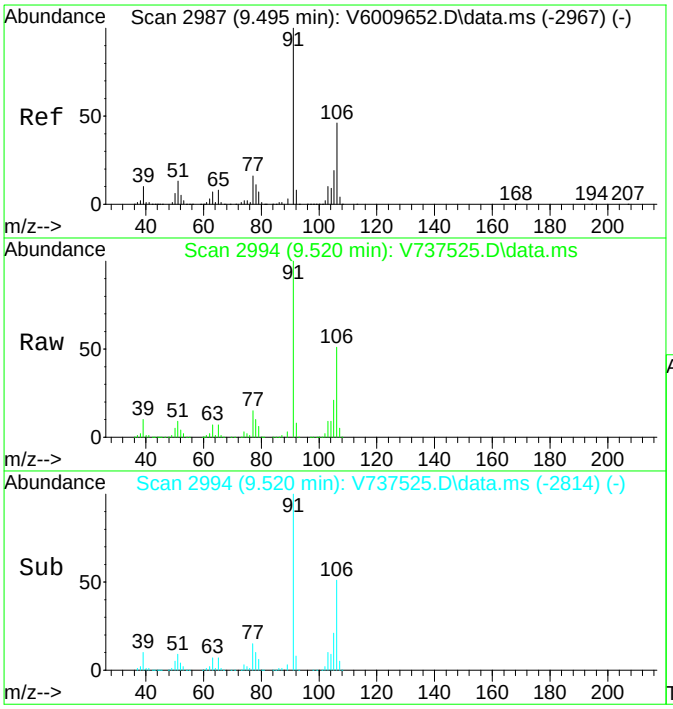


#66
p- & m-Xylenes
Concen: 22.65 ppb
RT: 9.083 min Scan# 2837
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 910287

Ion	Ratio	Lower	Upper
91	100		
106	53.5	31.3	65.1
105	24.8	14.2	29.4
77	13.4	8.3	17.1

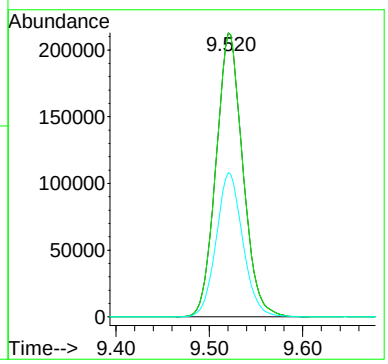


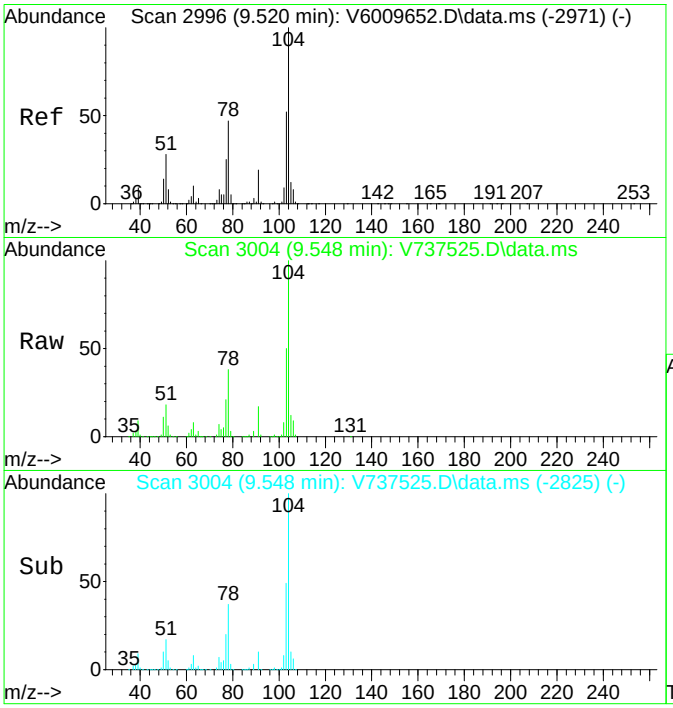


#67
o-Xylene
Concen: 11.08 ppb
RT: 9.520 min Scan# 2994
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 423573

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	50.5	22.7	68.1

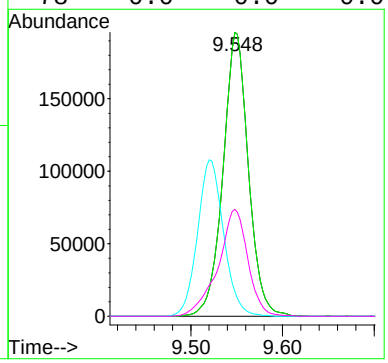


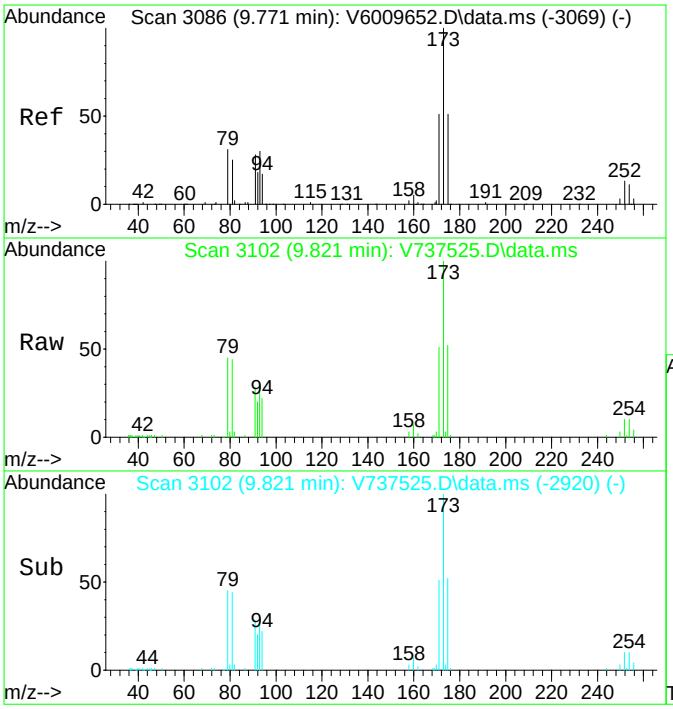


#68
Styrene
Concen: 11.60 ppb
RT: 9.548 min Scan# 3004
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:104 Resp: 376702

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
106	0.0	0.0	0.0
78	0.0	0.0	0.0

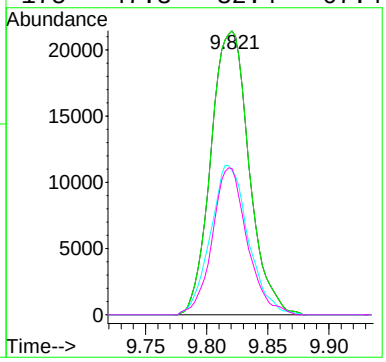


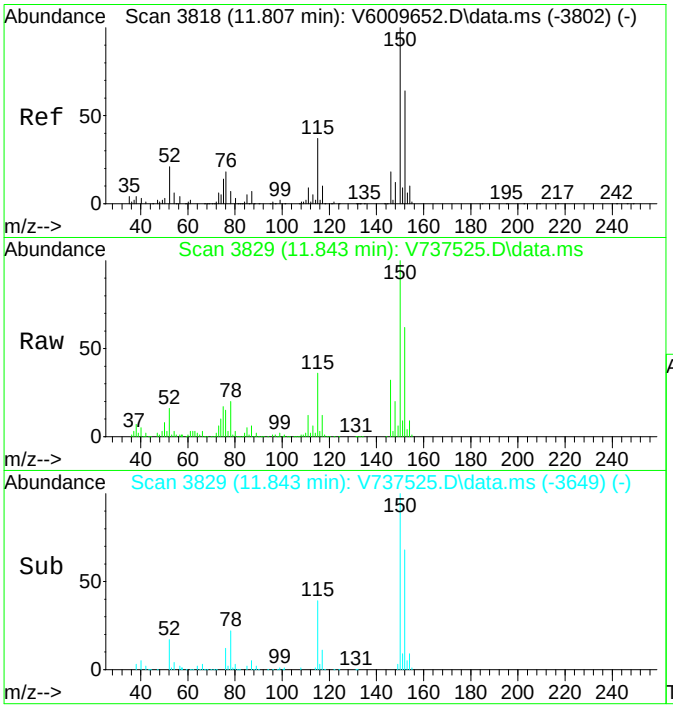


#69
Bromoform
Concen: 9.92 ppb
RT: 9.821 min Scan# 3102
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:173 Resp: 46636

Ion	Ratio	Lower	Upper
173	100		
173	100.0	80.0	120.0
171	52.2	0.0	0.0#
175	47.3	32.4	67.4

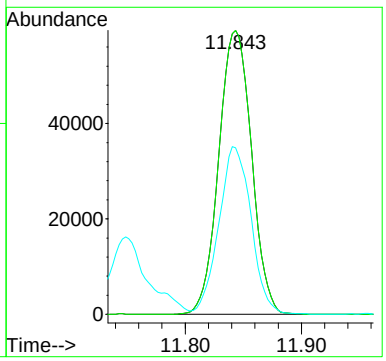


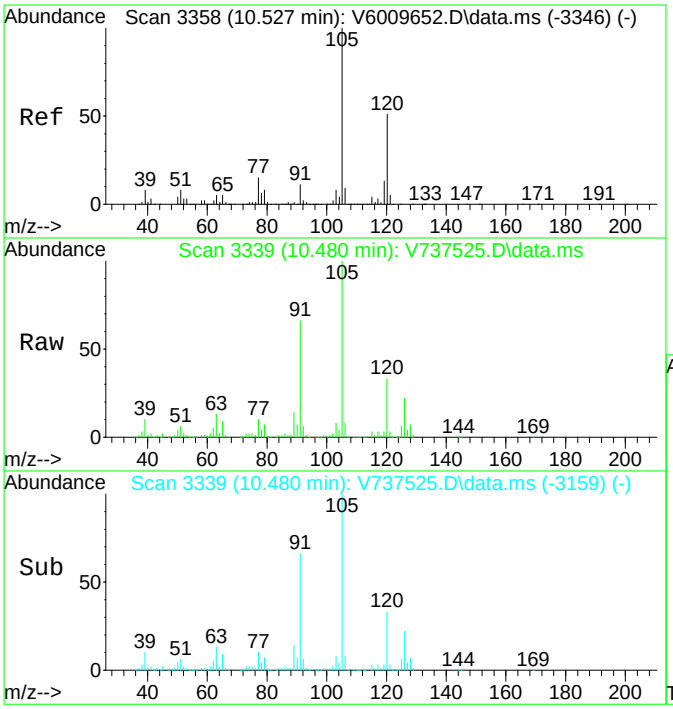


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:152 Resp: 116688

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	58.3	33.7	101.0

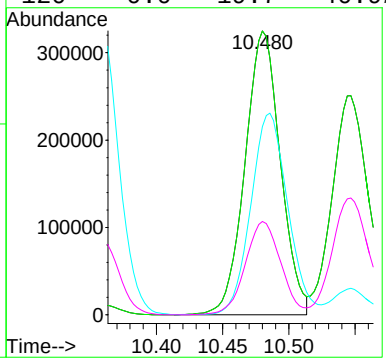


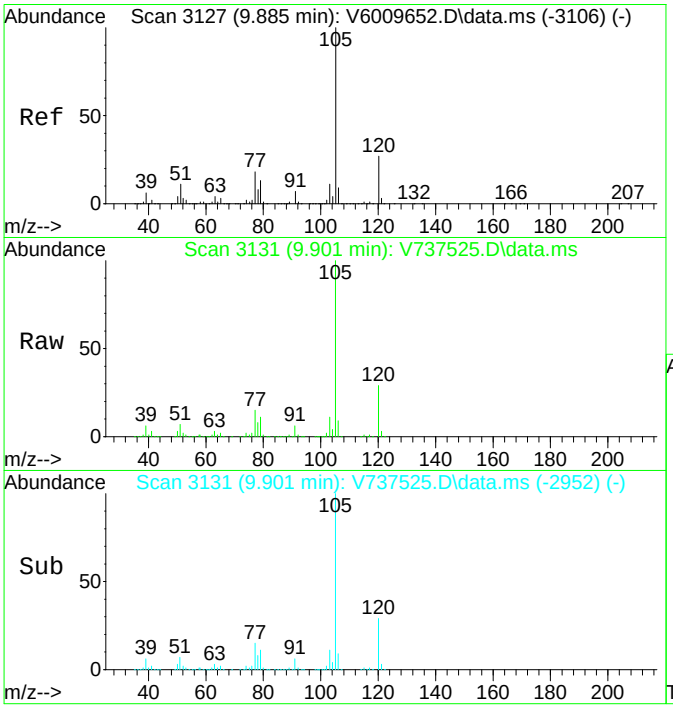


#71
p-Ethyltoluene
Concen: 11.63 ppb
RT: 10.480 min Scan# 3339
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:105 Resp: 604001

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
91	0.0	0.0	0.0
120	0.0	19.7	40.9#

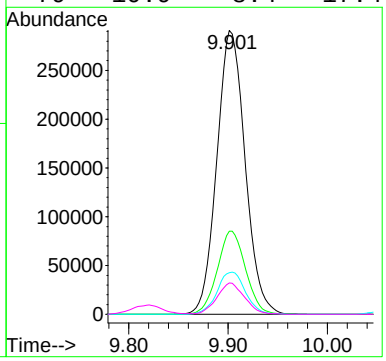


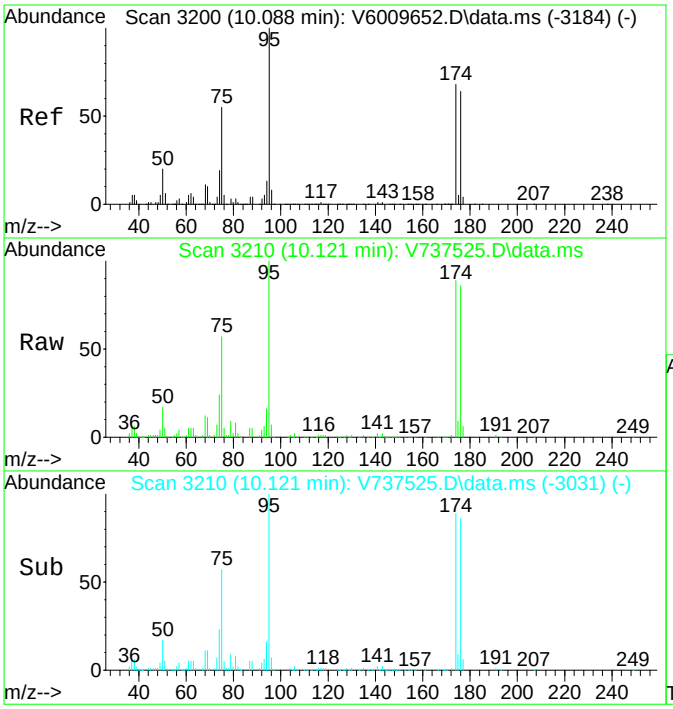


#72
Isopropylbenzene
Concen: 10.58 ppb
RT: 9.901 min Scan# 3131
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:105 Resp: 576039

Ion	Ratio	Lower	Upper
105	100		
120	29.3	17.6	36.6
77	15.0	10.1	20.9
79	10.9	8.4	17.4

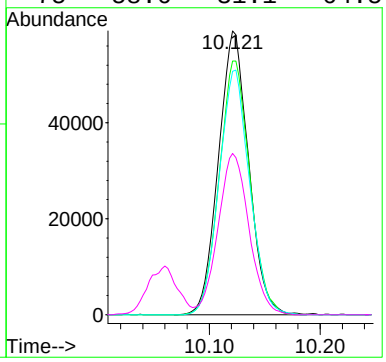


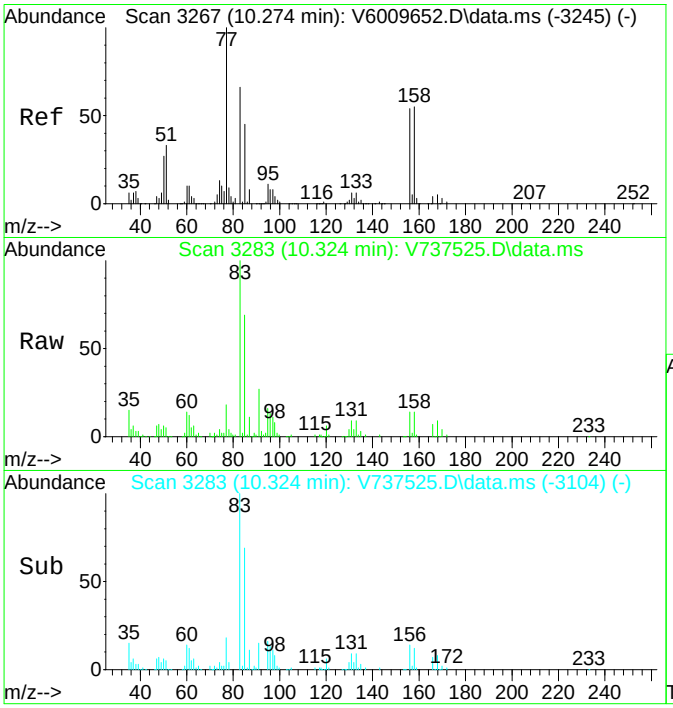


#73
p-Bromofluorobenzene (SURR)
Concen: 9.51 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 95 Resp: 111575

Ion	Ratio	Lower	Upper
95	100		
174	91.1	49.1	102.1
176	87.6	47.7	99.1
75	58.6	31.1	64.5

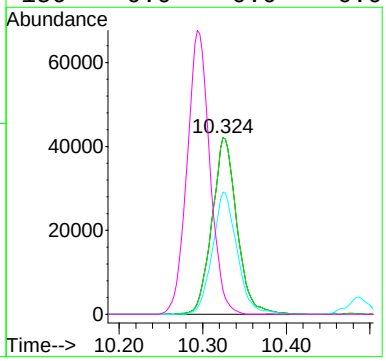


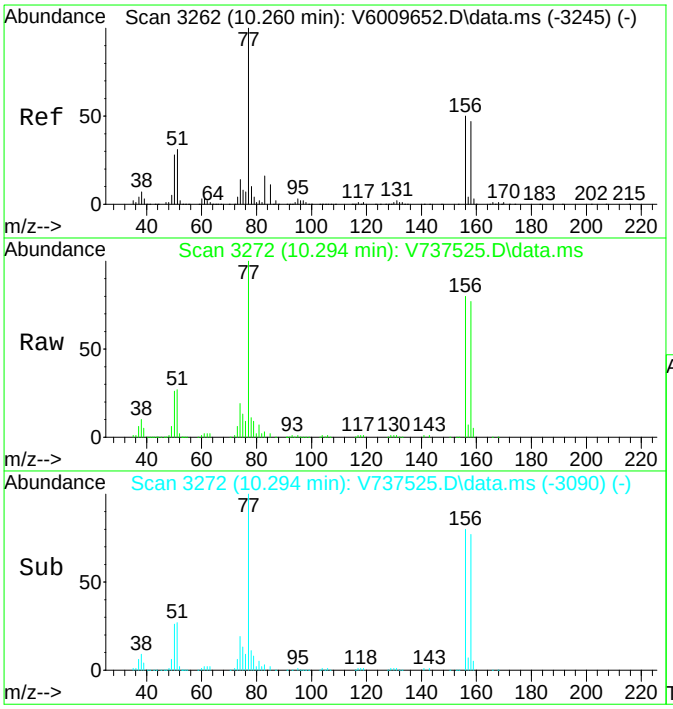


#74
1,1,2,2-Tetrachloroethane
Concen: 9.79 ppb
RT: 10.324 min Scan# 3283
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 83 Resp: 87224

Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
85	68.2	42.1	87.5
156	0.0	0.0	0.0

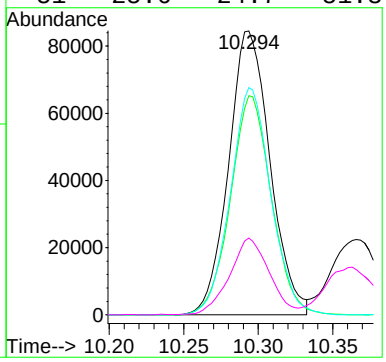


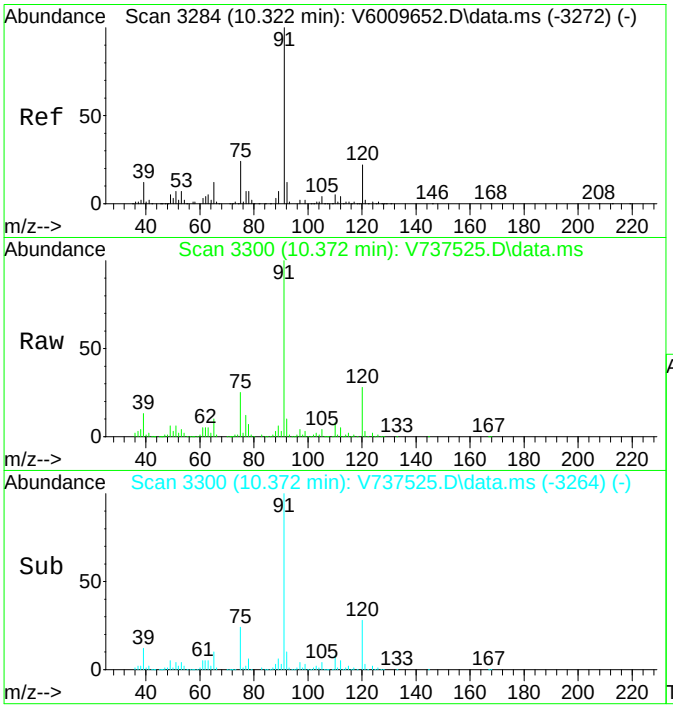


#75
Bromobenzene
Concen: 10.10 ppb
RT: 10.294 min Scan# 3272
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 77 Resp: 163739

Ion	Ratio	Lower	Upper
77	100		
158	76.1	37.2	77.4
156	78.1	38.9	80.7
51	25.6	24.7	51.3

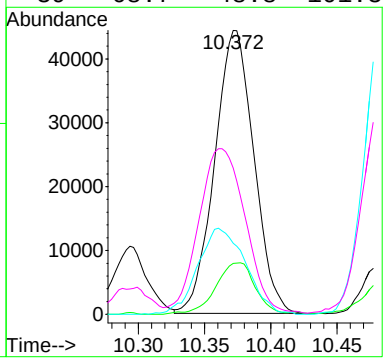


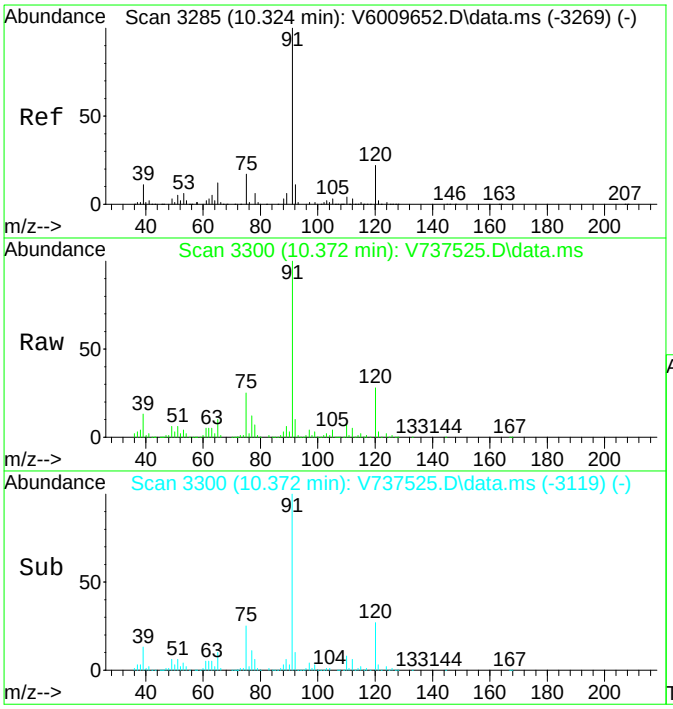


#76
trans-1,4-Dichloro-2-butene
Concen: 10.35 ppb
RT: 10.372 min Scan# 3300
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 75 Resp: 91405

Ion	Ratio	Lower	Upper
75	100		
53	18.4	21.8	45.4#
89	37.2	20.8	43.2
39	68.7	48.8	101.3

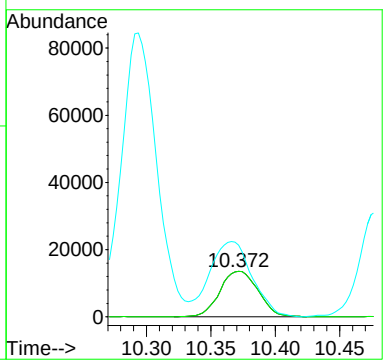


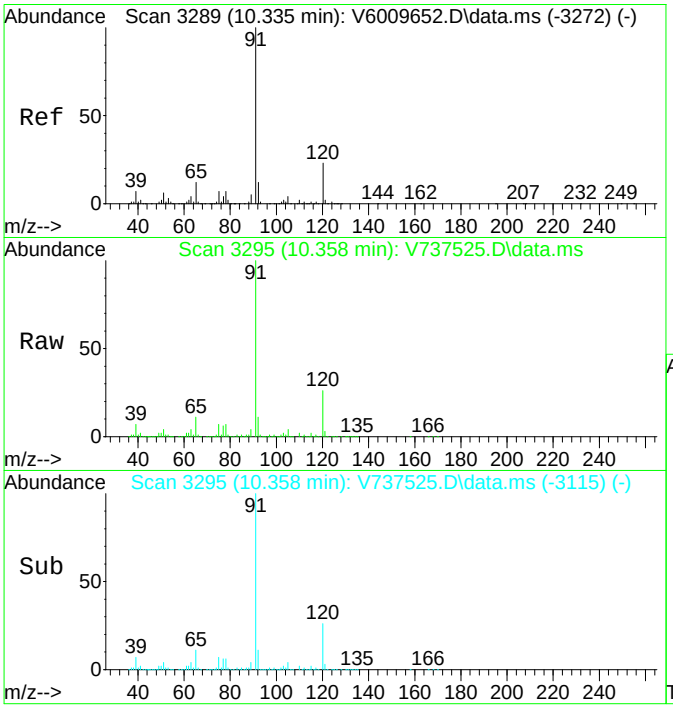


#77
1,2,3-Trichloropropane
Concen: 10.26 ppb
RT: 10.372 min Scan# 3300
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:110 Resp: 28115

Ion	Ratio	Lower	Upper
110	100		
110	100.0	80.0	120.0
77	181.8	113.1	339.4

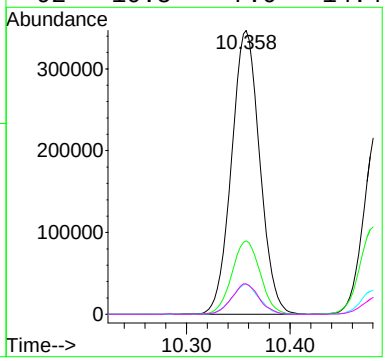


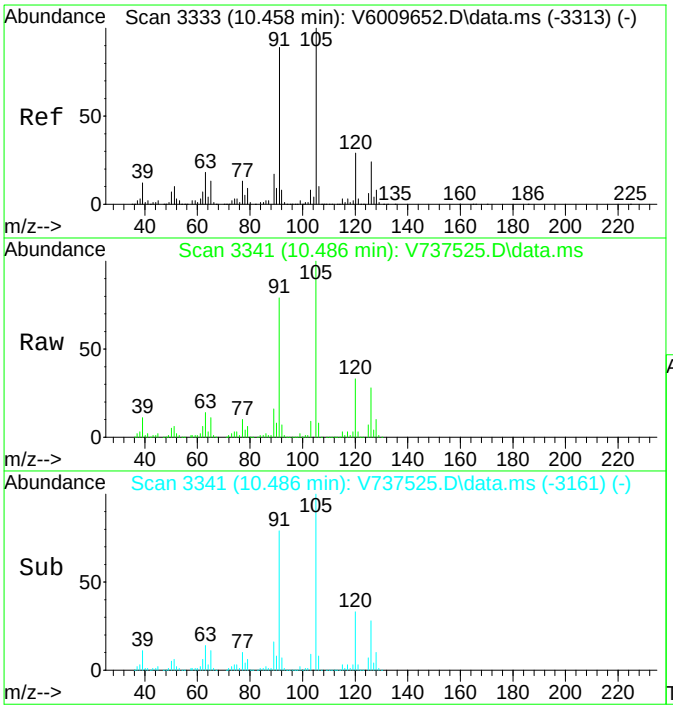


#78
n-Propylbenzene
Concen: 10.65 ppb
RT: 10.358 min Scan# 3295
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 657523

Ion	Ratio	Lower	Upper
91	100		
120	26.0	14.8	30.8
65	10.3	7.0	14.4
92	10.5	7.0	14.4

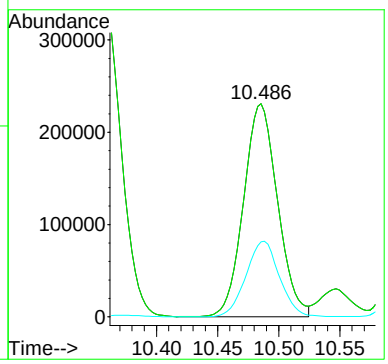


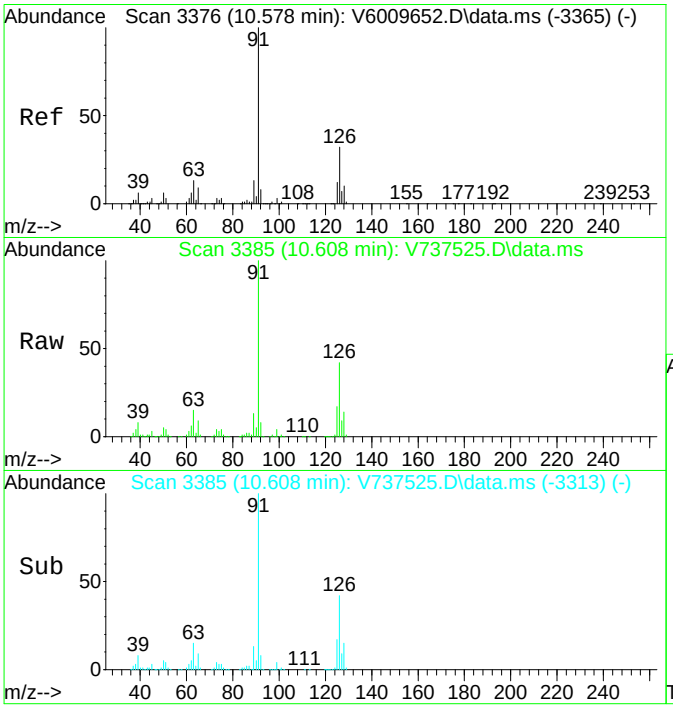


#79
2-Chlorotoluene
Concen: 11.03 ppb
RT: 10.486 min Scan# 3341
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 448405

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
126	35.0	18.1	37.7

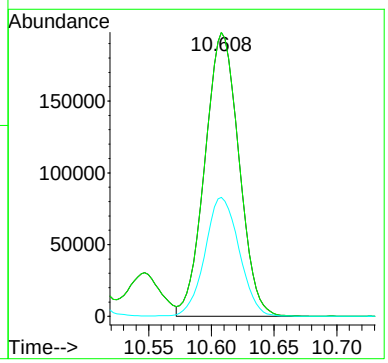


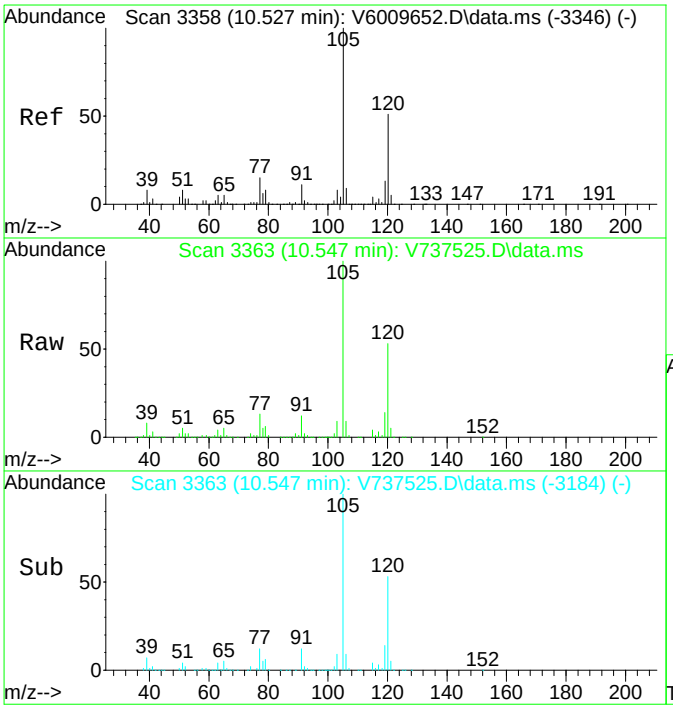


#80
4-Chlorotoluene
Concen: 10.67 ppb
RT: 10.608 min Scan# 3385
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 373162

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
126	42.3	16.0	47.9

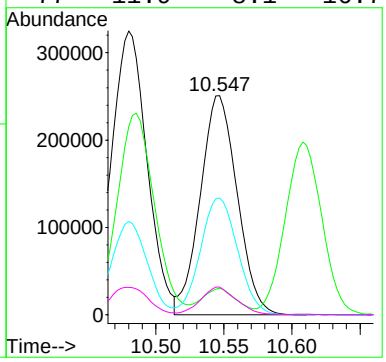


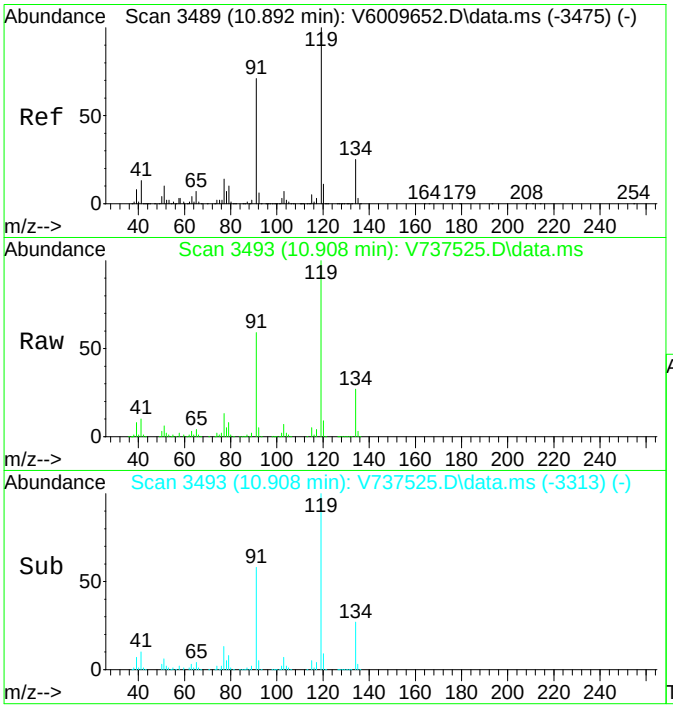


#81
1,3,5-Trimethylbenzene
Concen: 11.12 ppb
RT: 10.547 min Scan# 3363
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:105 Resp: 473702

Ion	Ratio	Lower	Upper
105	100		
91	11.6	6.8	14.2
120	53.7	32.6	67.6
77	11.9	8.1	16.7

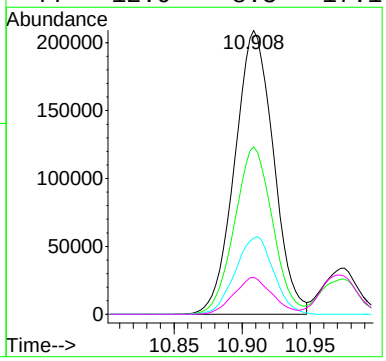


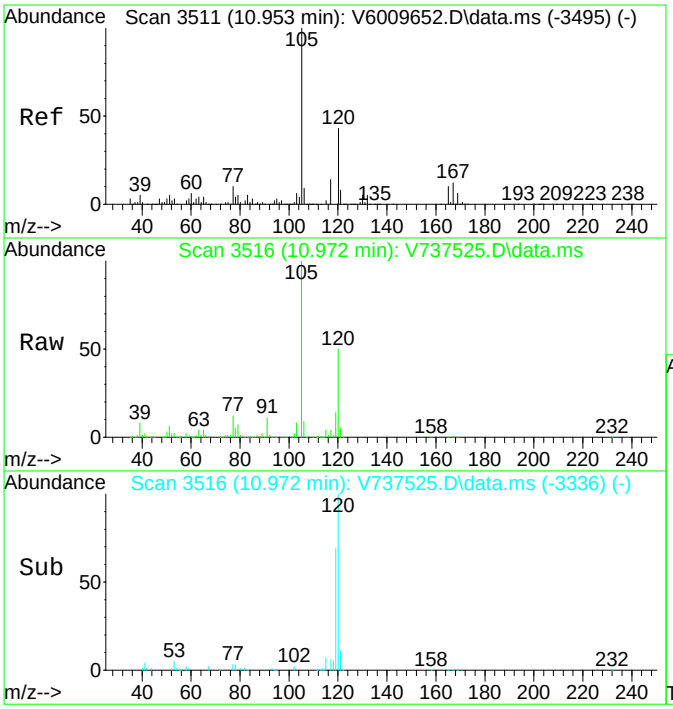


#82
tert-Butylbenzene
Concen: 10.89 ppb
RT: 10.908 min Scan# 3493
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:119 Resp: 413373

Ion	Ratio	Lower	Upper
119	100		
91	57.8	44.3	91.9
134	27.1	15.9	33.1
77	12.9	8.3	17.1

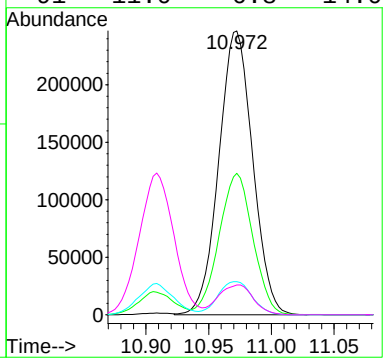


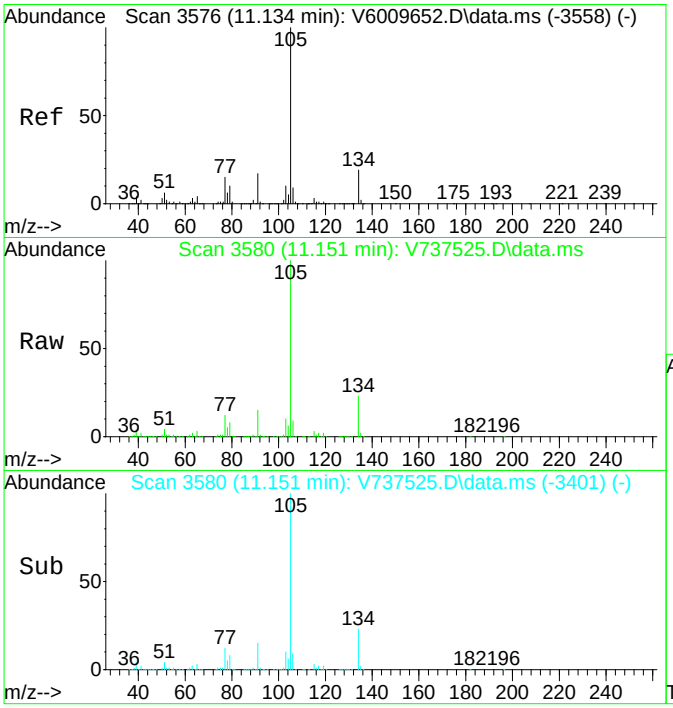


#83
1,2,4-Trimethylbenzene
Concen: 10.67 ppb
RT: 10.972 min Scan# 3516
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:105 Resp: 462633

Ion	Ratio	Lower	Upper
105	100		
120	49.9	30.7	63.7
77	11.9	8.0	16.6
91	11.0	6.8	14.0

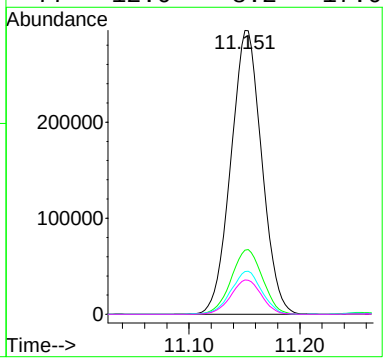


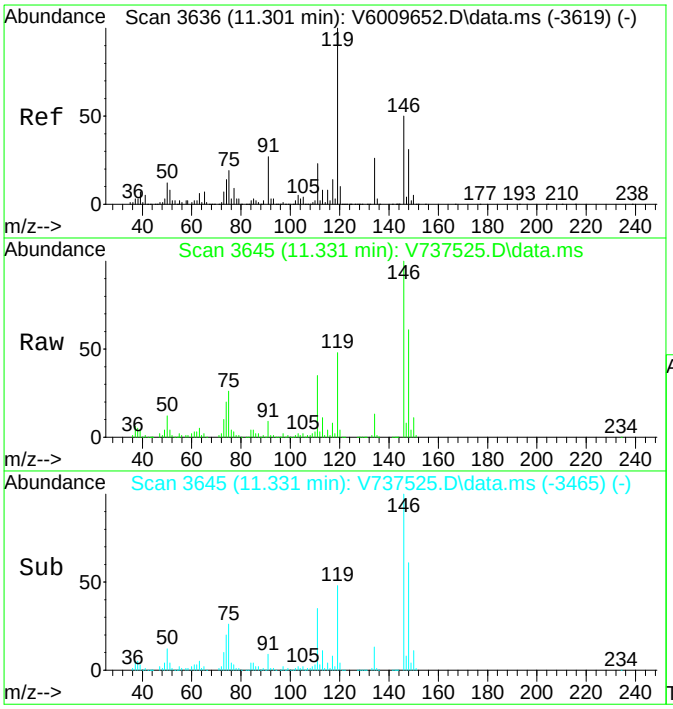


#84
sec-Butylbenzene
Concen: 11.99 ppb
RT: 11.151 min Scan# 3580
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:105 Resp: 571666

Ion	Ratio	Lower	Upper
105	100		
134	23.2	13.5	28.1
91	15.3	10.7	22.1
77	12.0	8.2	17.0

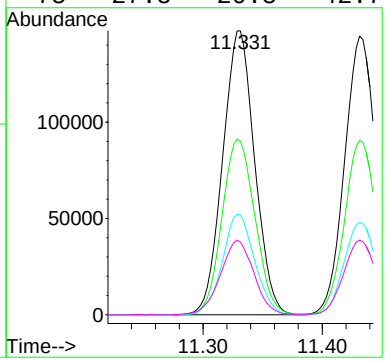


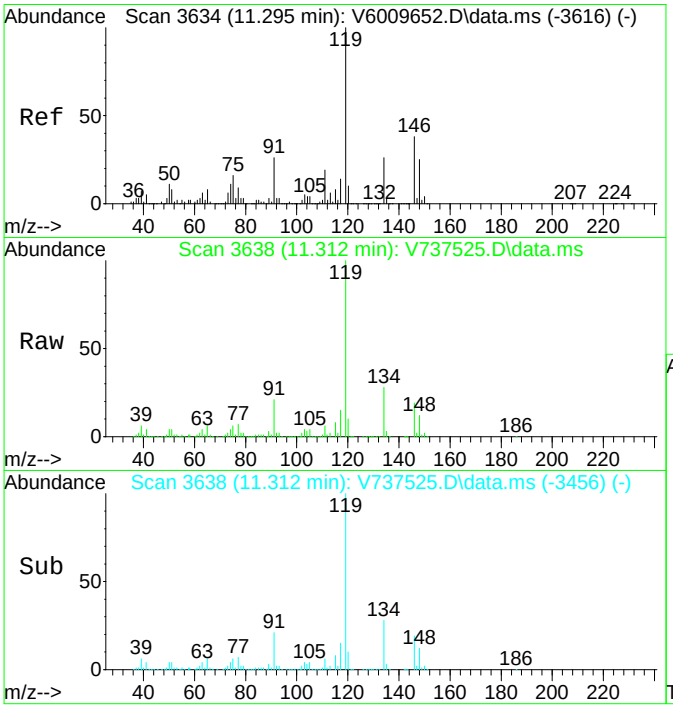


#85
1,3-Dichlorobenzene
Concen: 10.42 ppb
RT: 11.331 min Scan# 3645
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:146 Resp: 276058

Ion	Ratio	Lower	Upper
146	100		
148	63.6	41.7	86.5
111	35.9	27.2	56.6
75	27.5	20.5	42.7

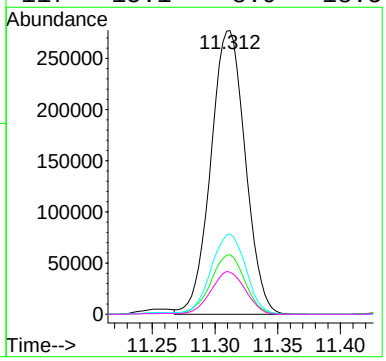


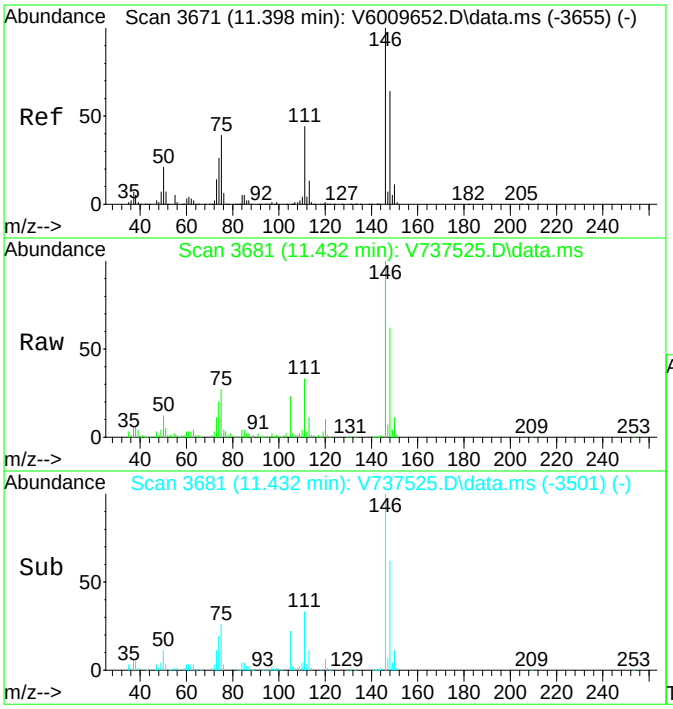


#86
p-Isopropyltoluene
Concen: 11.07 ppb
RT: 11.312 min Scan# 3638
Delta R.T. 0.006 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:119 Resp: 529202

Ion	Ratio	Lower	Upper
119	100		
91	20.8	15.8	32.8
134	28.7	17.6	36.6
117	15.1	8.9	18.5

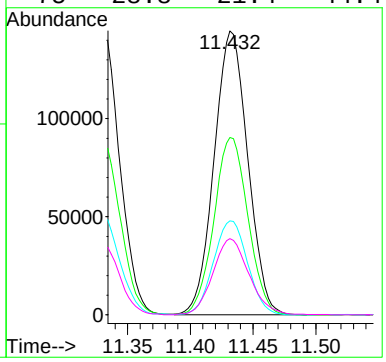


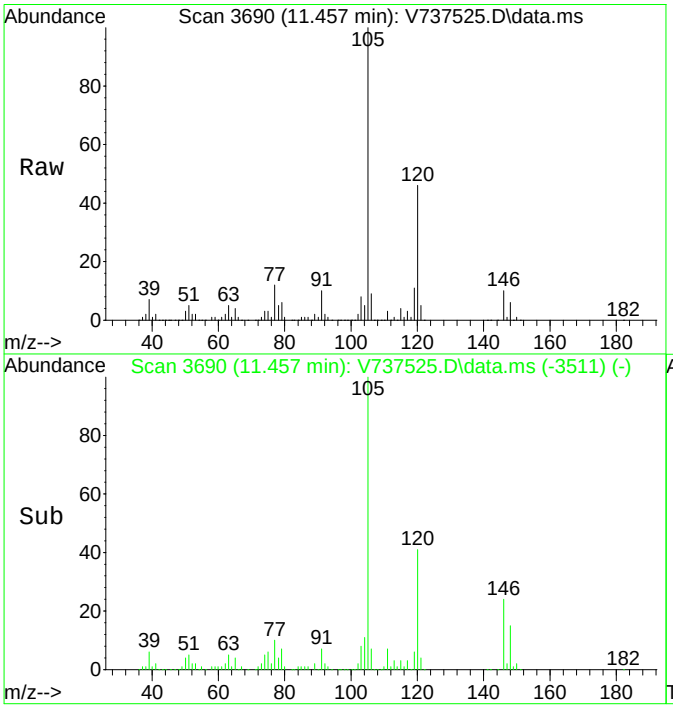


#87
1,4-Dichlorobenzene
Concen: 10.29 ppb
RT: 11.432 min Scan# 3681
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:146 Resp: 270001

Ion	Ratio	Lower	Upper
146	100		
148	63.2	41.0	85.2
111	33.6	26.3	54.7
75	28.8	21.4	44.4

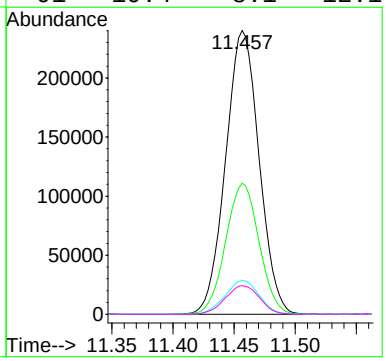


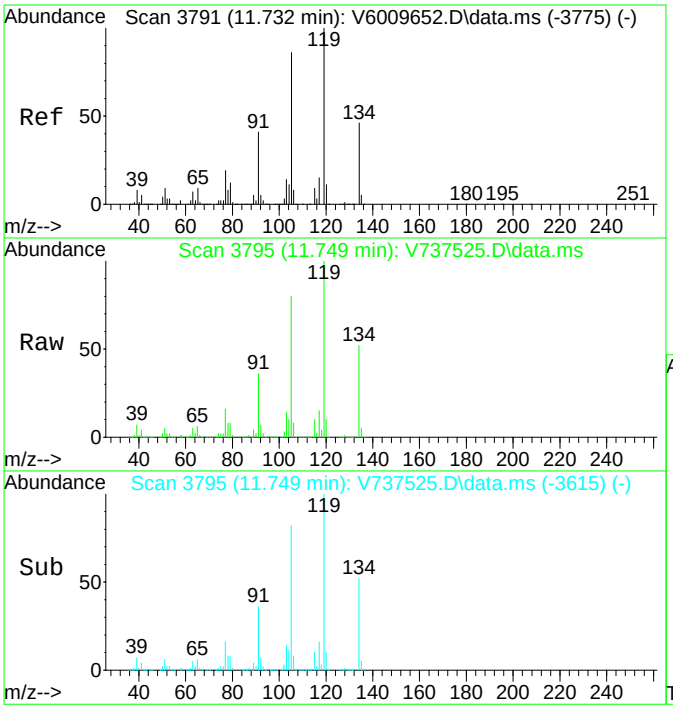


#88
1,2,3-Trimethylbenzene
Concen: 11.29 ppb
RT: 11.457 min Scan# 3690
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:105 Resp: 457927

Ion	Ratio	Lower	Upper
105	100		
120	46.1	34.3	51.5
77	12.1	9.8	14.8
91	10.4	8.1	12.1

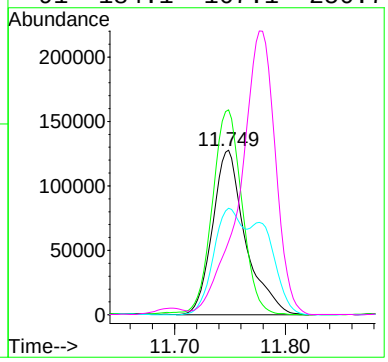


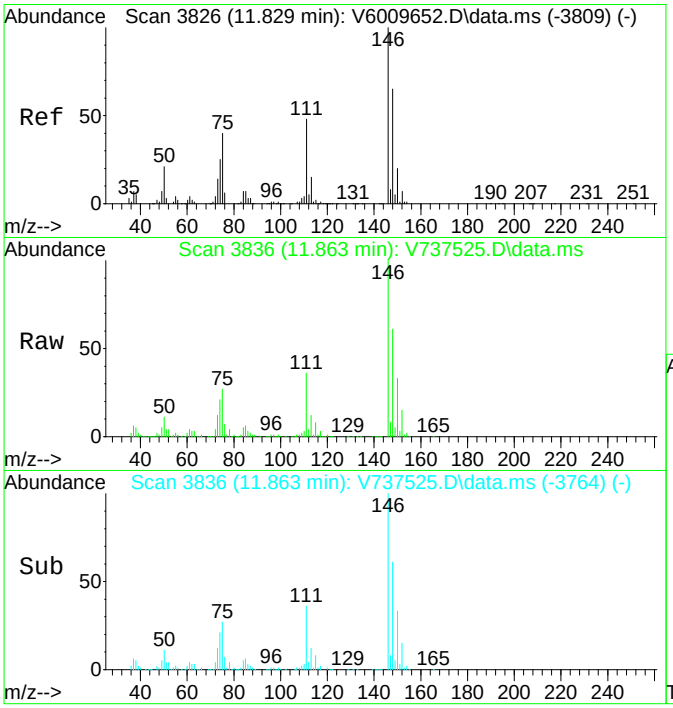


#89
p-Diethylbenzene
Concen: 13.06 ppb
RT: 11.749 min Scan# 3795
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:105 Resp: 263453

Ion	Ratio	Lower	Upper
105	100		
119	113.3	83.7	125.5
134	59.9	35.5	73.7
91	184.1	167.1	250.7

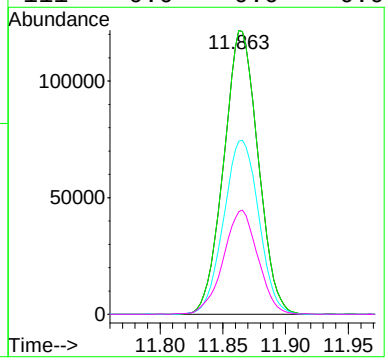


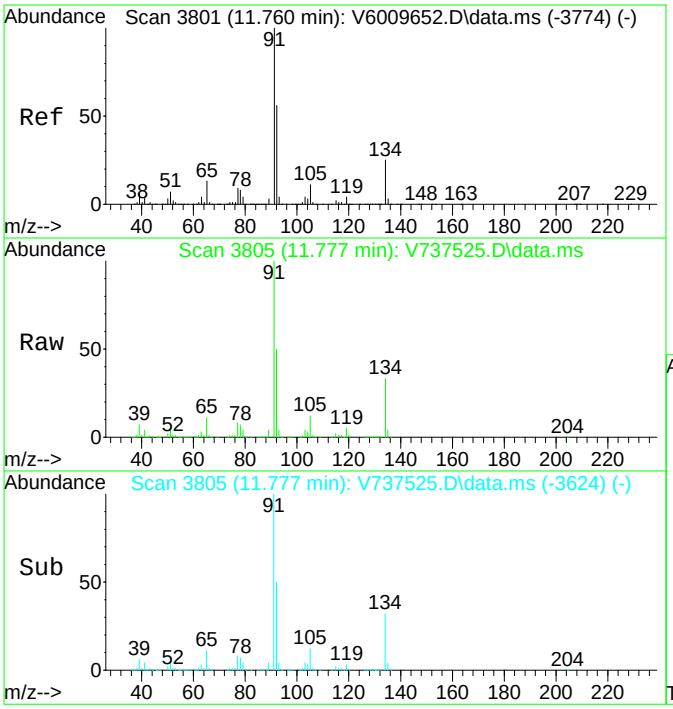


#90
1,2-Dichlorobenzene
Concen: 10.54 ppb
RT: 11.863 min Scan# 3836
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:146 Resp: 231632

Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	0.0	41.6	86.4#
111	0.0	0.0	0.0

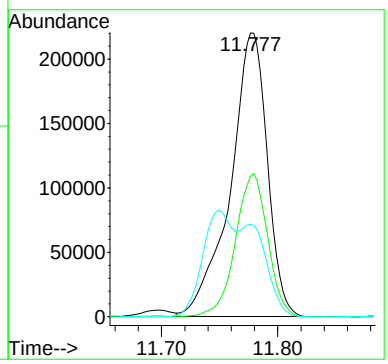


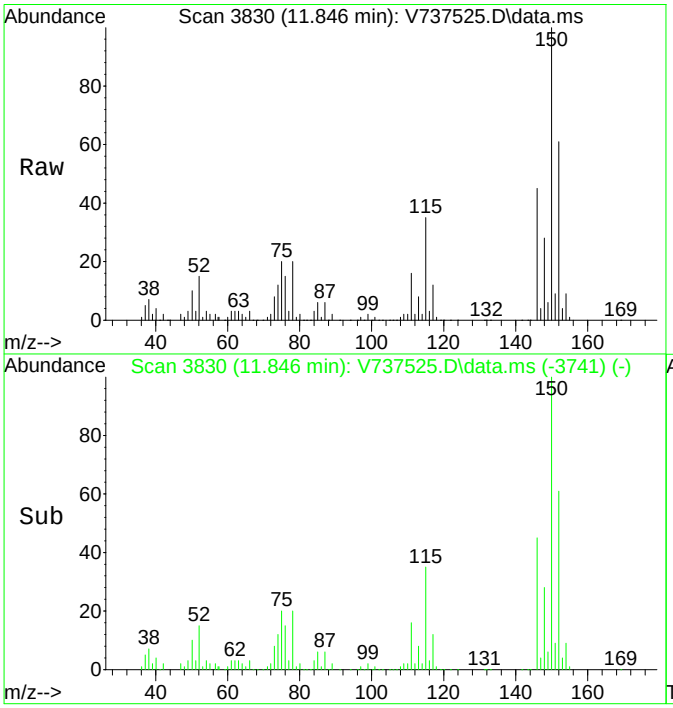


#91
n-Butylbenzene
Concen: 14.96 ppb
RT: 11.777 min Scan# 3805
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 91 Resp: 484891

Ion	Ratio	Lower	Upper
91	100		
92	44.2	30.9	64.1
134	32.5	17.0	35.4

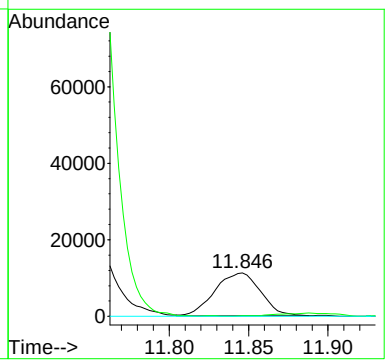


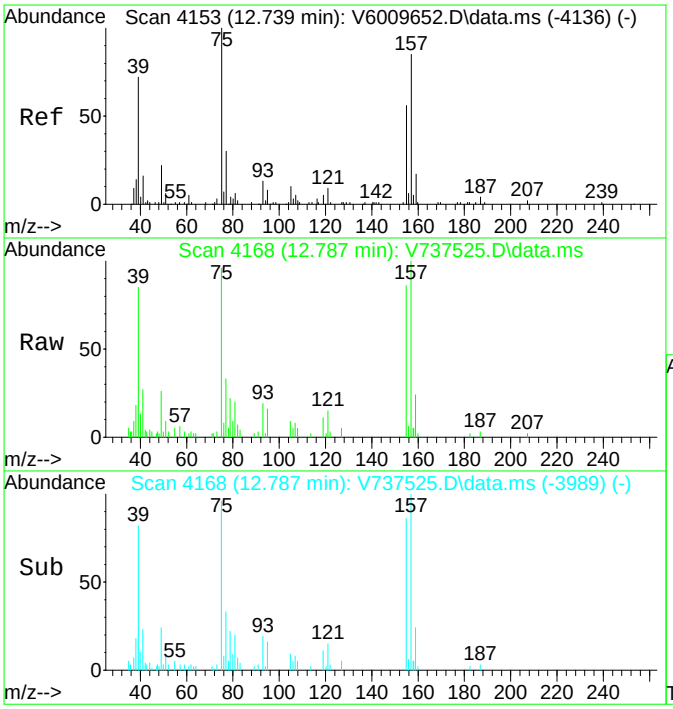


#92
Hexachloroethane
Concen: 3.25 ppb
RT: 11.846 min Scan# 3830
Delta R.T. -0.253 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:117 Resp: 22468

Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.3	117.5#
201	0.0	66.1	99.1#

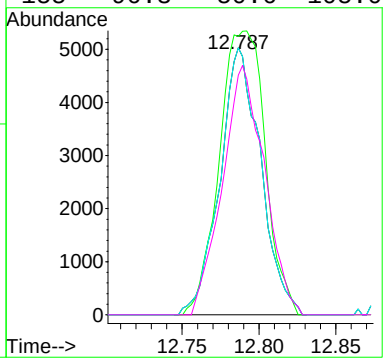


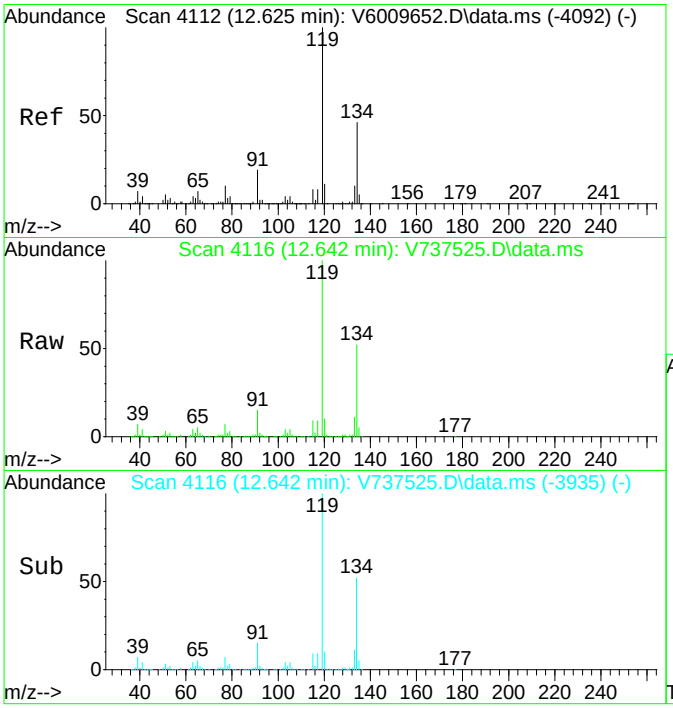


#93
1,2-Dibromo-3-chloropropane
Concen: 9.18 ppb
RT: 12.787 min Scan# 4168
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 75 Resp: 9276

Ion	Ratio	Lower	Upper
75	100		
157	120.0	80.2	120.2
75	100.0	65.0	135.0
155	96.3	50.6	105.0

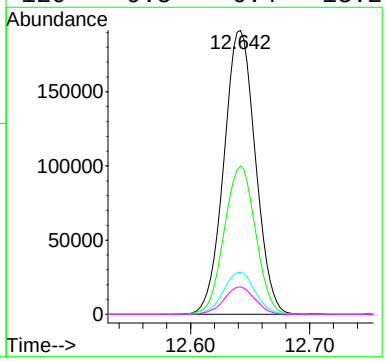


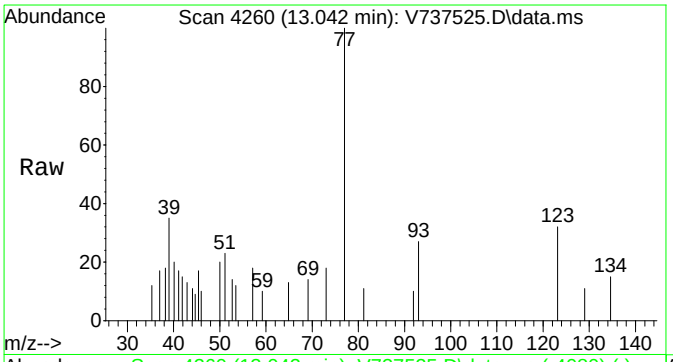


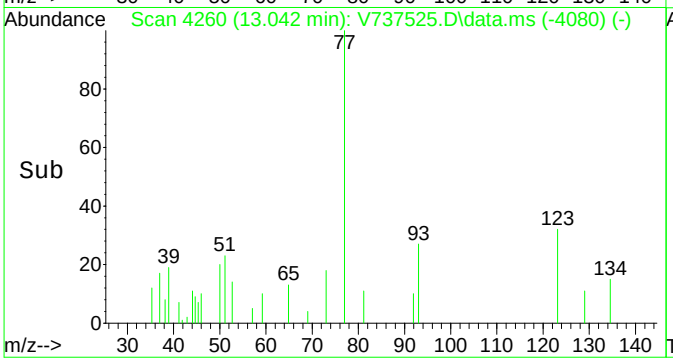
#94
1,2,4,5-Tetramethylbenzene
Concen: 10.86 ppb
RT: 12.642 min Scan# 4116
Delta R.T. 0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:119 Resp: 352589

Ion	Ratio	Lower	Upper
119	100		
134	51.8	31.2	64.8
91	15.0	10.5	21.7
120	9.5	6.4	13.2



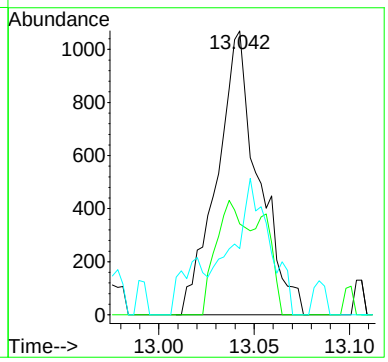


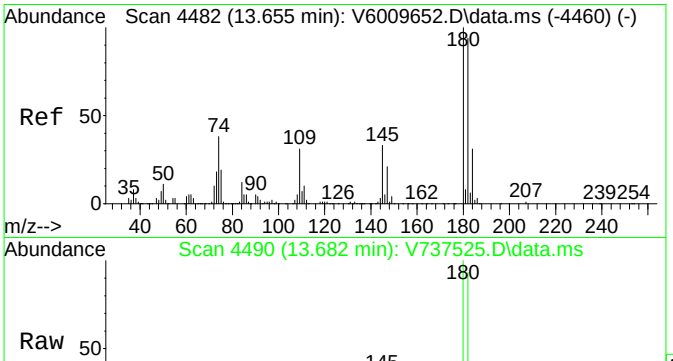


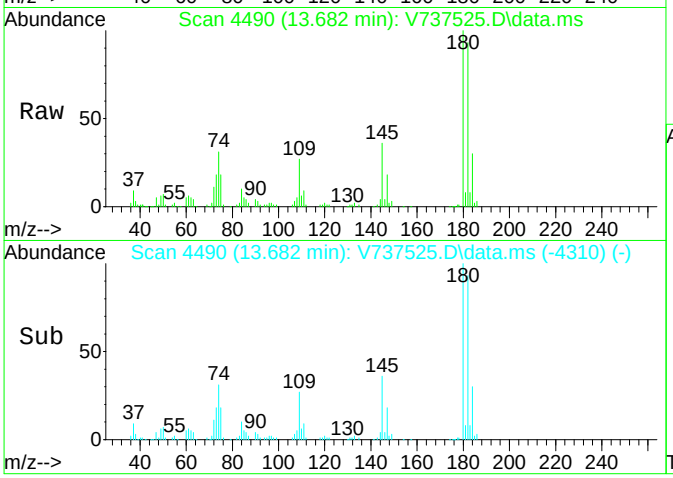
#95
Nitrobenzene
Concen: 9.87 ppb
RT: 13.042 min Scan# 4260
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion: 77 Resp: 1615

Ion	Ratio	Lower	Upper
77	100		
123	29.7	30.3	45.5#
51	43.2	40.8	61.2



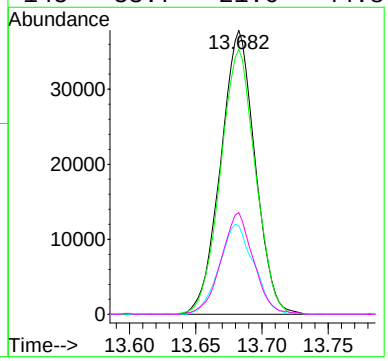


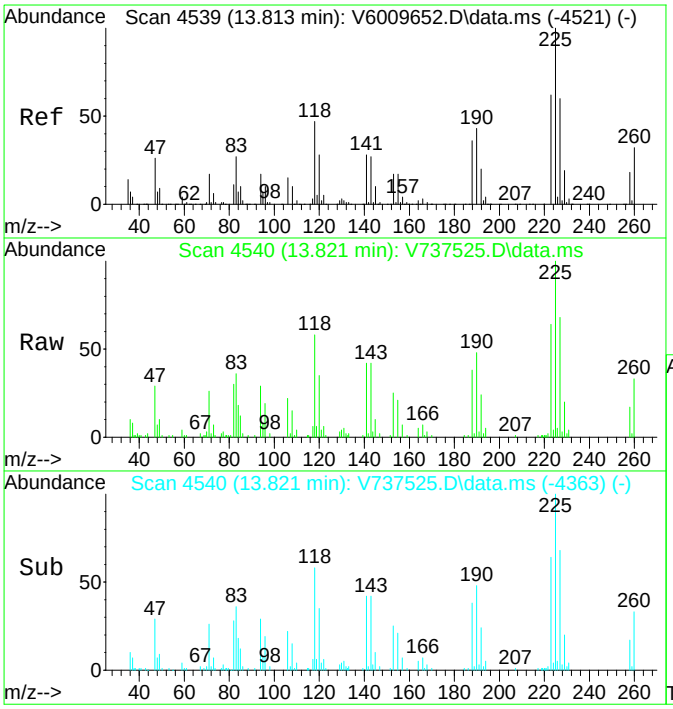


#96
1,2,4-Trichlorobenzene
Concen: 8.95 ppb
RT: 13.682 min Scan# 4490
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:180 Resp: 68467

Ion	Ratio	Lower	Upper
180	100		
182	94.5	62.1	129.1
74	31.9	20.0	41.6
145	33.7	21.6	44.8

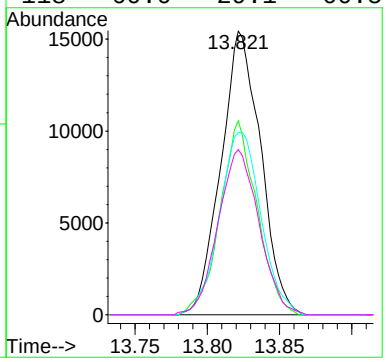


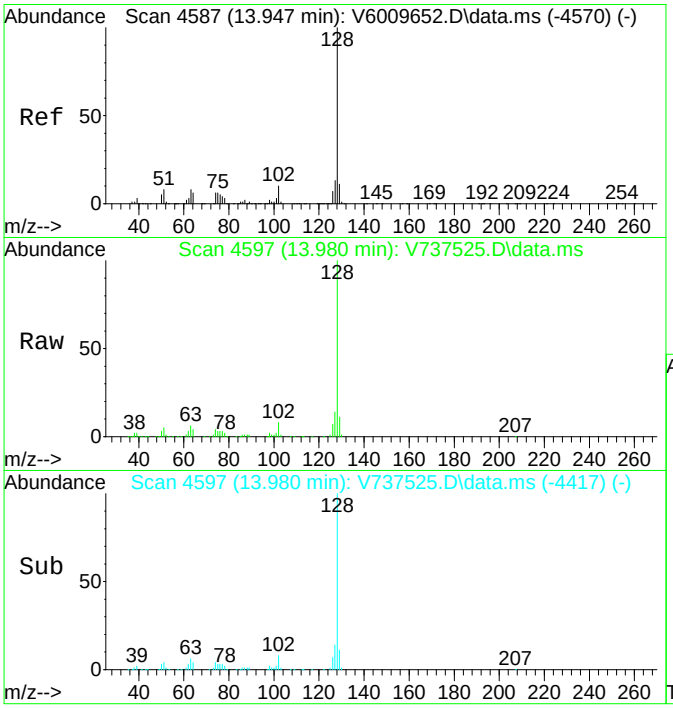


#97
Hexachloro-1,3-Butadiene
Concen: 9.55 ppb
RT: 13.821 min Scan# 4540
Delta R.T. -0.008 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:225 Resp: 29566

Ion	Ratio	Lower	Upper
225	100		
227	63.5	41.6	86.4
223	67.1	40.8	84.6
118	60.0	29.1	60.5

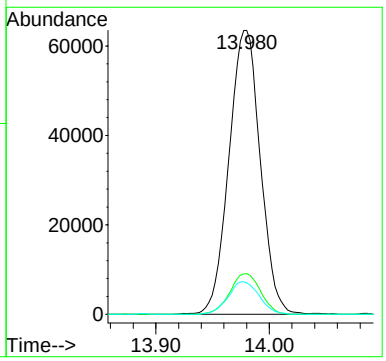


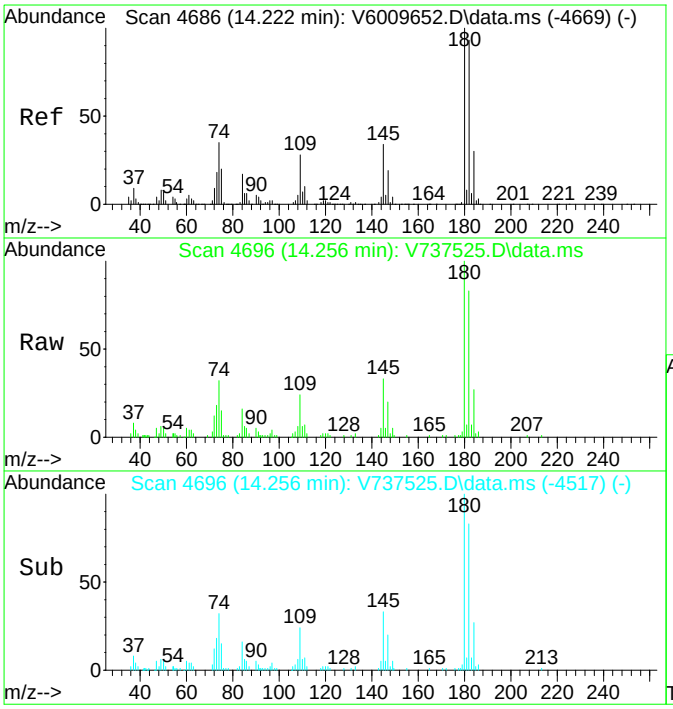


#98
Naphthalene
Concen: 8.64 ppb
RT: 13.980 min Scan# 4597
Delta R.T. 0.000 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:128 Resp: 122112

Ion	Ratio	Lower	Upper
128	100		
127	14.1	8.3	17.1
129	11.4	7.1	14.7

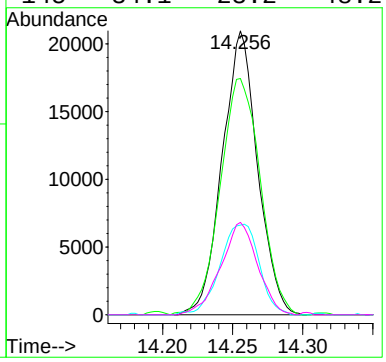




#99
1,2,3-Trichlorobenzene
Concen: 8.03 ppb
RT: 14.256 min Scan# 4696
Delta R.T. -0.003 min
Lab File: V737525.D
Acq: 23 Dec 2019 12:28 am

Tgt Ion:180 Resp: 36634

Ion	Ratio	Lower	Upper
180	100		
182	94.5	62.0	128.8
74	35.5	18.9	39.1
145	34.1	23.2	48.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737526.D
Acq On : 23 Dec 2019 12:58 am
InstName : MSVOA7
Operator : SS
Sample : BL91221-MSD1
Misc : QBV7122219A 19L0677-01 G
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 23 08:53:42 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.822	70	67645	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	302571	10.00	ppb		# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	113504	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	76592	9.85	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.50%				
53) Toluene-d8 (SURR)	7.344	98	386523	9.92	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.20%				
73) p-Bromofluorobenzene (...	10.121	95	115094	10.09	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	134960	17.30	ppb		97
3) Chloromethane	1.699	50	106788	14.27	ppb		98
4) Vinyl Chloride	1.799	62	165209	12.78	ppb	#	87
5) Bromomethane	2.155	94	79698	14.61	ppb		100
6) Chloroethane	2.258	64	154136	13.67	ppb		100
7) Trichlorofluoromethane	2.498	101	560478	13.13	ppb		99
8) Ethanol	2.793	45	42632	1599.90	ppb	#	52
9) Freon-113	3.001	101	113432	12.38	ppb	#	71
10) 1,1-Dichloroethylene	3.035	61	150267	12.34	ppb	#	74
11) Acrolein	2.985	56	3513	4.12	ppb		95
12) Acetone	3.138	43	12899	9.68	ppb	#	100
13) Iodomethane	3.210	142	58076	26.72	ppb		98
14) Ally Chloride	3.407	41	138799	12.42	ppb	#	76
15) Methyl Acetate	3.438	43	32145	9.83	ppb	#	95
16) Carbon disulfide	3.257	76	334671	12.50	ppb		100
17) tert-Butyl Alcohol (TBA)	3.680	59	29584	53.31	ppb	#	100
18) Methylene Chloride	3.552	49	114491	12.27	ppb	#	58
19) Acrylonitrile	3.836	53	13435	10.64	ppb	#	80
20) trans-1,2-Dichloroethy...	3.786	61	140228	12.39	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.752	73	266536	11.65	ppb		94
22) 1,1-Dichloroethane	4.209	63	183738	11.26	ppb	#	96
23) Vinyl Acetate	4.237	43	112125	9.19	ppb	#	100
24) Diisopropyl ether (DIPE)	4.192	45	265035	11.28	ppb	#	93
25) Ethyl-tert-Butyl ether...	4.532	59	267283	11.99	ppb	#	91
26) cis-1,2-Dichloroethylene	4.765	61	155526	11.78	ppb	#	72
27) 2-Butanone	4.787	72	9766	11.94	ppb	#	100
28) 2,2-Dichloropropane	4.732	77	153931	11.16	ppb	#	100
29) Tetrahydrofuran	5.024	71	7057	8.97	ppb	#	1
30) Bromochloromethane	5.005	49	65258	11.10	ppb	#	58
31) Chloroform	5.068	83	206603	11.72	ppb	#	99
32) 1,1,1-Trichloroethane	5.199	97	207620	12.78	ppb	#	99
33) Cyclohexane	5.213	56	156424	12.79	ppb	#	71
34) 1,1-Dichloropropylene	5.349	75	170499	11.91	ppb		80
36) Carbon Tetrachloride	5.341	117	201262	12.37	ppb		99
37) tert-Amyl alcohol (TAA)	5.580	59	64361	113.15	ppb	#	1
38) 1,2-Dichloroethane	5.622	62	112886	11.35	ppb		99
39) Benzene	5.561	78	461499	11.92	ppb	#	69
40) tert-Amyl methyl ether...	5.608	73	349889	12.16	ppb	#	99
42) Trichloroethylene	6.167	95	128166	11.85	ppb		80
43) Methyl Cyclohexane	6.293	83	185744	12.45	ppb	#	71
44) Methyl Methacrylate	6.479	69	53838	11.29	ppb	#	26
45) Dibromomethane	6.554	93	63938	11.52	ppb		96
46) Bromodichloromethane	6.696	83	143006	11.62	ppb	#	92
47) 1,2-Dichloropropane	6.412	63	97462	11.19	ppb	#	87
48) 1,4-Dioxane	6.551	88	7539	227.68	ppb	#	84
49) 2-Nitropropane	6.949	43	15696	6.94	ppb	#	1
50) 2-Chloroethyl vinyl ether	7.411	63	44622	22.34	ppb	#	91
51) cis-1,3-Dichloropropene	7.113	75	167541	11.93	ppb		88

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737526.D
Acq On : 23 Dec 2019 12:58 am
InstName : MSVOA7
Operator : SS
Sample : BL91221-MSD1
Misc : QBV7122219A 19L0677-01 G
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 23 08:53:42 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

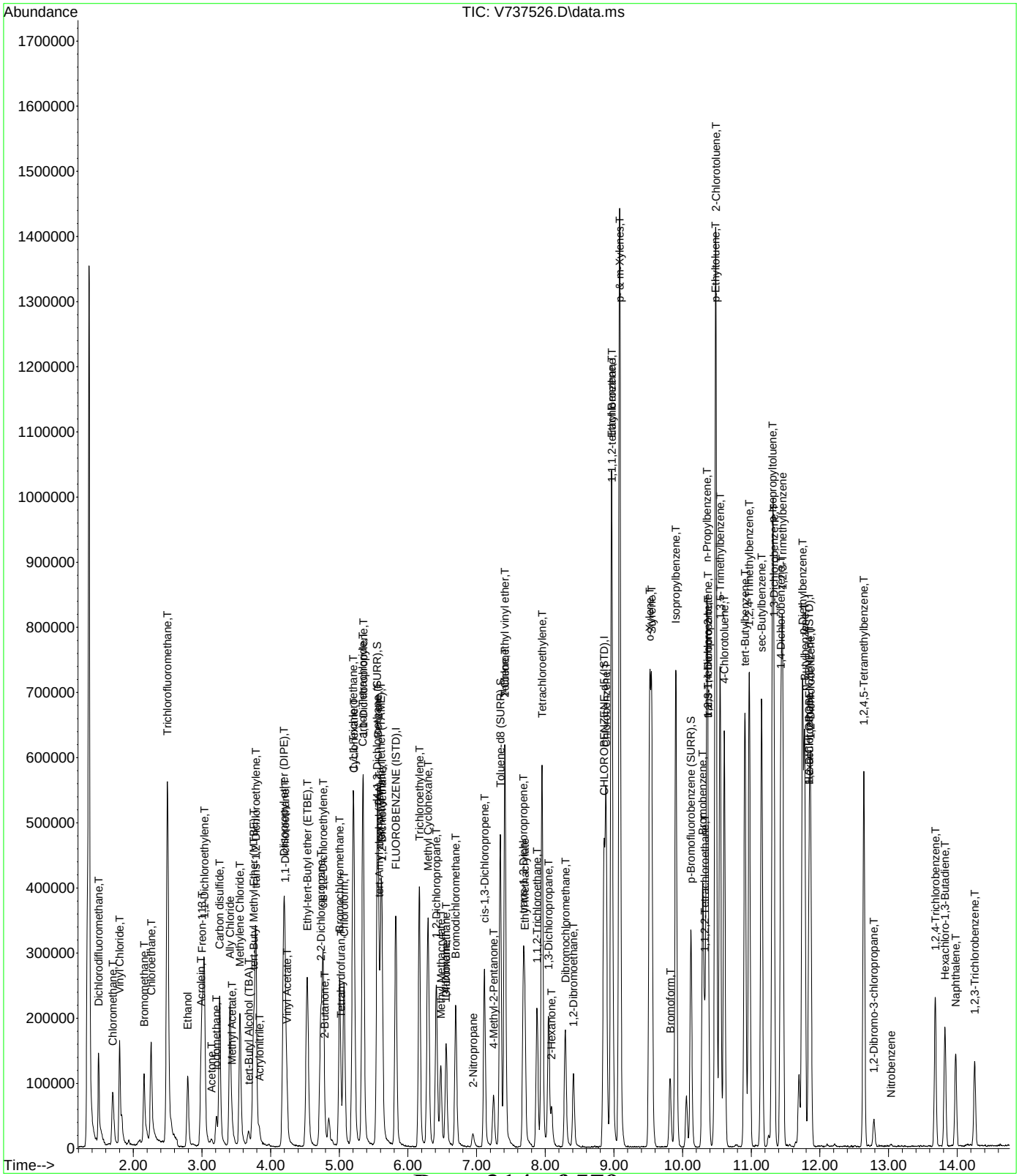
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.247	43	61640	12.13	ppb	#	91
54) Toluene	7.411	91	535132	11.98	ppb		99
55) Ethyl Methacrylate	7.700	69	115708	11.79	ppb	#	27
56) trans-1,3-Dichloropropene	7.681	75	138832	11.56	ppb		99
57) 1,1,2-Trichloroethane	7.881	97	77509	11.27	ppb		94
58) 1,3-Dichloropropane	8.048	76	134390	11.60	ppb	#	99
59) Tetrachloroethylene	7.954	166	184493	13.99	ppb	#	100
60) 2-Hexanone	8.090	43	45119	12.40	ppb		95
61) Dibromochloromethane	8.293	129	113805	12.81	ppb	#	96
62) 1,2-Dibromoethane	8.410	107	81142	11.59	ppb		98
63) Chlorobenzene	8.886	112	359125	11.29	ppb	#	87
64) 1,1,1,2-tetrachloroethane	8.972	131	144605	12.15	ppb		97
65) Ethyl Benzene	8.964	91	612581	12.00	ppb		95
66) p- & m-Xylenes	9.083	91	949367	23.56	ppb		94
67) o-Xylene	9.520	91	456559	11.97	ppb		98
68) Styrene	9.548	104	394175	12.16	ppb	#	100
69) Bromoform	9.821	173	51634	10.92	ppb	#	99
71) p-Ethyltoluene	10.480	105	620331	12.28	ppb	#	87
72) Isopropylbenzene	9.901	105	608640	11.49	ppb		98
74) 1,1,2,2-Tetrachloroethane	10.324	83	96513	11.14	ppb	#	99
75) Bromobenzene	10.294	77	179081	11.36	ppb		78
76) trans-1,4-Dichloro-2-b...	10.371	75	100403	11.69	ppb	#	86
77) 1,2,3-Trichloropropane	10.371	110	30214	11.34	ppb		86
78) n-Propylbenzene	10.355	91	684873	11.40	ppb		97
79) 2-Chlorotoluene	10.486	91	459739	11.63	ppb		97
80) 4-Chlorotoluene	10.608	91	388334	11.42	ppb		95
81) 1,3,5-Trimethylbenzene	10.547	105	488767	11.79	ppb		96
82) tert-Butylbenzene	10.908	119	428187	11.60	ppb		92
83) 1,2,4-Trimethylbenzene	10.970	105	479385	11.36	ppb		97
84) sec-Butylbenzene	11.150	105	595240	12.83	ppb		96
85) 1,3-Dichlorobenzene	11.331	146	286420	11.11	ppb		95
86) p-Isopropyltoluene	11.309	119	546735	11.76	ppb		96
87) 1,4-Dichlorobenzene	11.431	146	273198	10.71	ppb		93
88) 1,2,3-Trimethylbenzene	11.457	105	471701	11.95	ppb		96
89) p-Diethylbenzene	11.746	105	265237	13.52	ppb		88
90) 1,2-Dichlorobenzene	11.866	146	236837	11.08	ppb	#	100
91) n-Butylbenzene	11.779	91	490910	15.57	ppb		93
92) Hexachloroethane	11.843	117	20335	3.07	ppb	#	4
93) 1,2-Dibromo-3-chloropr...	12.784	75	9993	10.17	ppb	#	82
94) 1,2,4,5-Tetramethylben...	12.639	119	372447	11.79	ppb		97
95) Nitrobenzene	13.040	77	1650	10.36	ppb	#	56
96) 1,2,4-Trichlorobenzene	13.682	180	72128	9.69	ppb		98
97) Hexachloro-1,3-Butadiene	13.821	225	33046	10.97	ppb	#	92
98) Naphthalene	13.977	128	134371	9.78	ppb		98
99) 1,2,3-Trichlorobenzene	14.253	180	39655	8.97	ppb		95

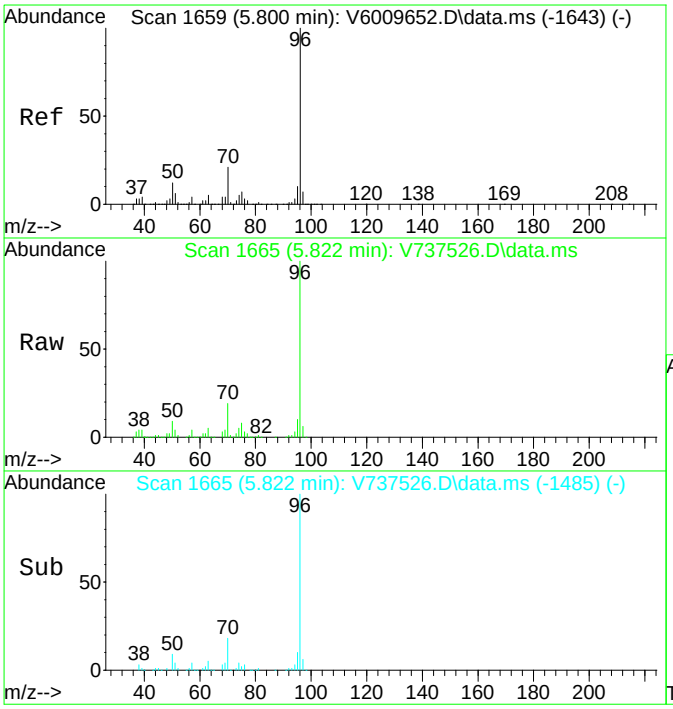
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737526.D
Acq On : 23 Dec 2019 12:58 am
InstName : MSVOA7
Operator : SS
Sample : BL91221-MSD1
Misc : QBV7122219A 19L0677-01 G
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 23 08:53:42 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

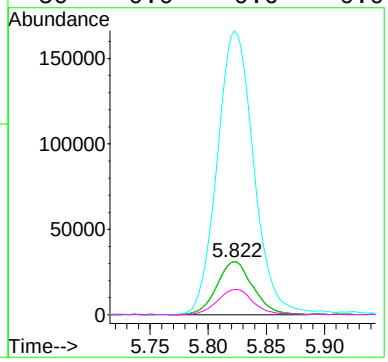


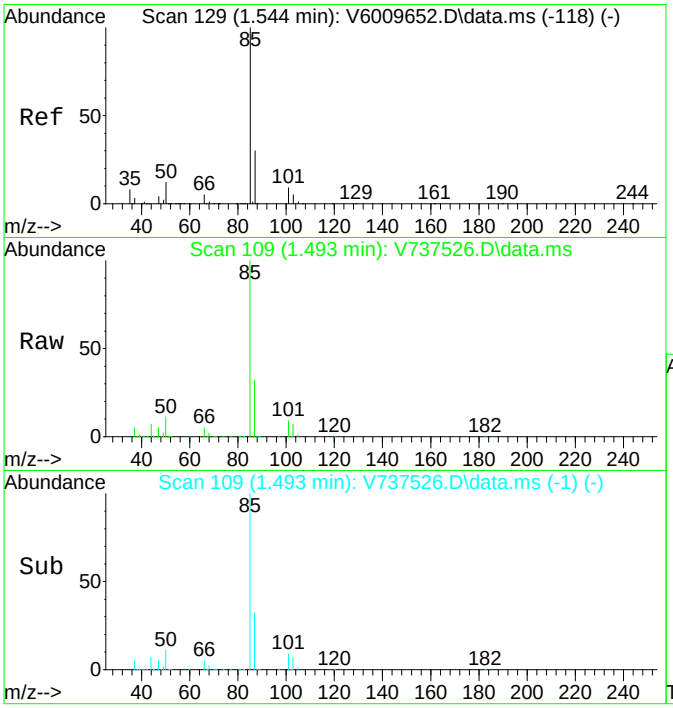


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 70 Resp: 67645

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	538.6	323.6	672.2
50	0.0	0.0	0.0

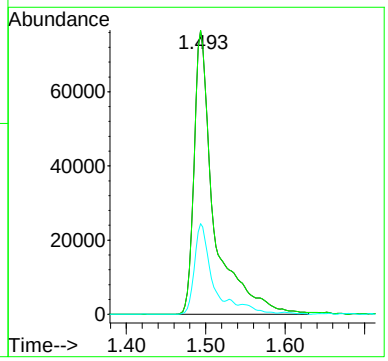


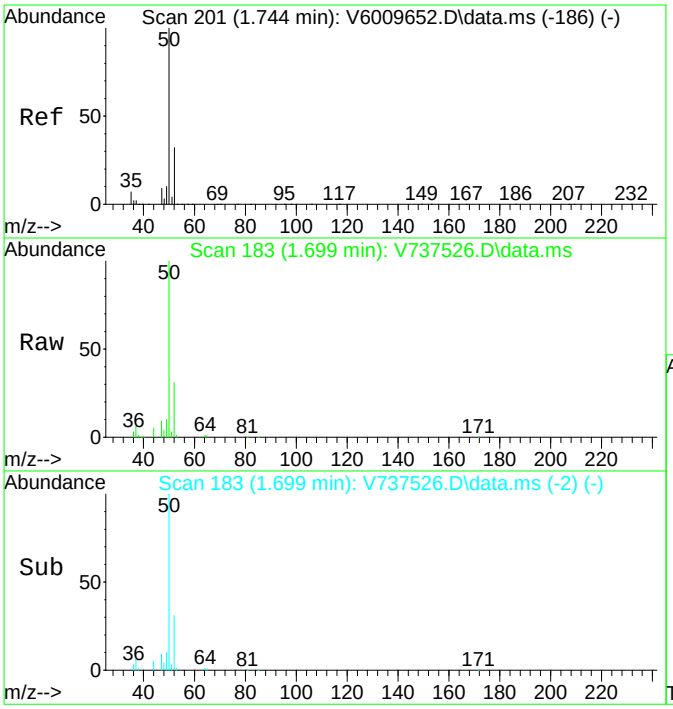


#2
Dichlorodifluoromethane
Concen: 17.30 ppb
RT: 1.493 min Scan# 109
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 85 Resp: 134960

Ion	Ratio	Lower	Upper
85	100		
85	100.0	65.0	135.0
87	25.0	21.1	43.9

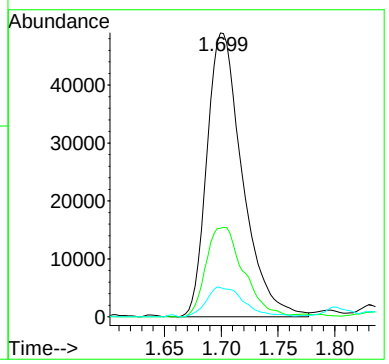


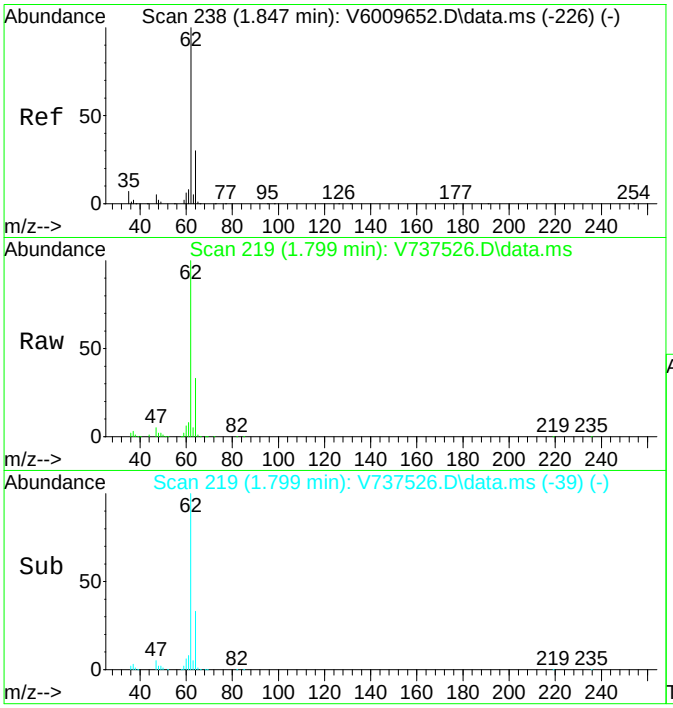


#3
Chloromethane
Concen: 14.27 ppb
RT: 1.699 min Scan# 183
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 50 Resp: 106788

Ion	Ratio	Lower	Upper
50	100		
52	33.3	20.9	43.5
49	11.2	6.6	13.6

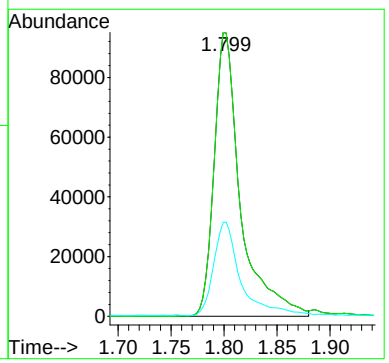


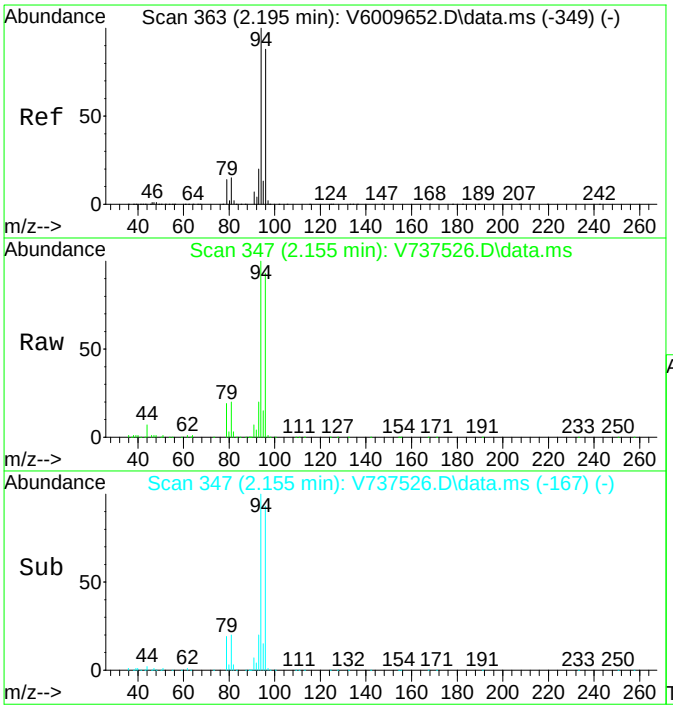


#4
Vinyl Chloride
Concen: 12.78 ppb
RT: 1.799 min Scan# 219
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 62 Resp: 165209

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	0.0	20.2	42.0#

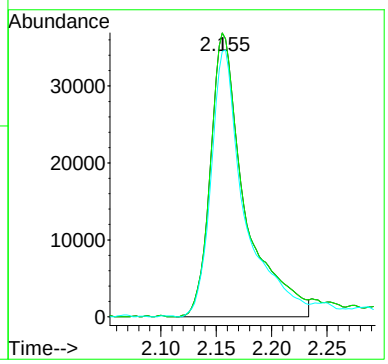


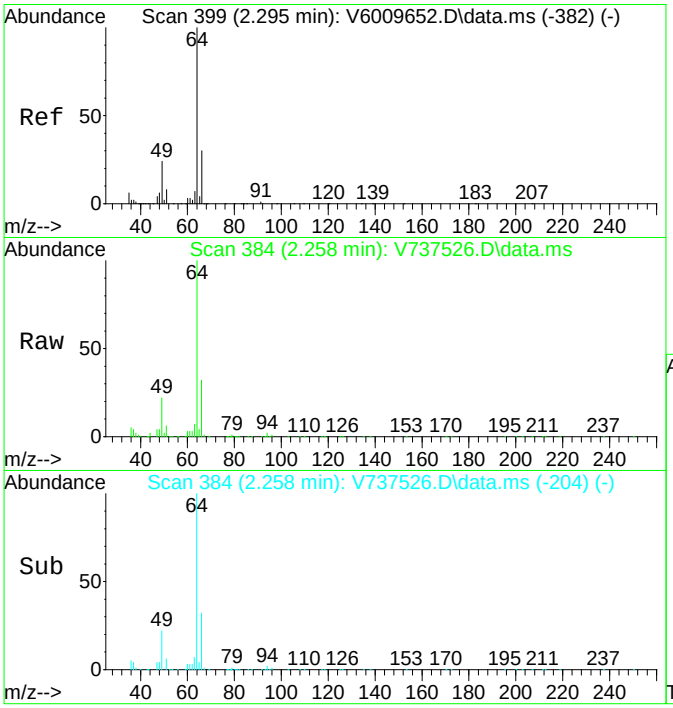


#5
Bromomethane
Concen: 14.61 ppb
RT: 2.155 min Scan# 347
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 94 Resp: 79698

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	92.0	45.9	137.6

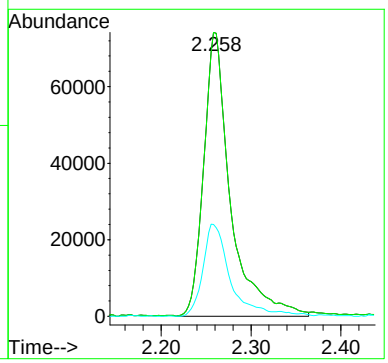


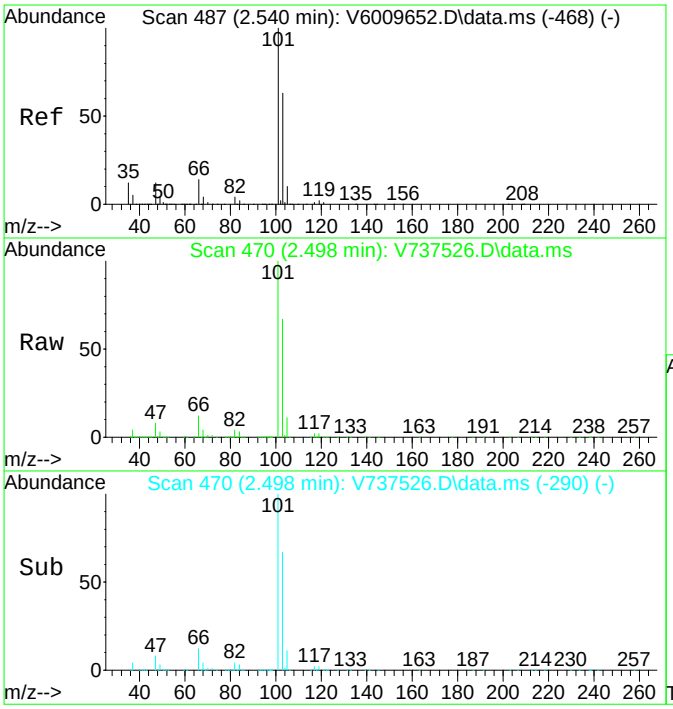


#6
Chloroethane
Concen: 13.67 ppb
RT: 2.258 min Scan# 384
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 64 Resp: 154136

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	32.2	20.6	42.8

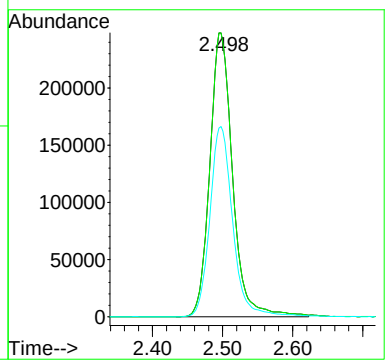


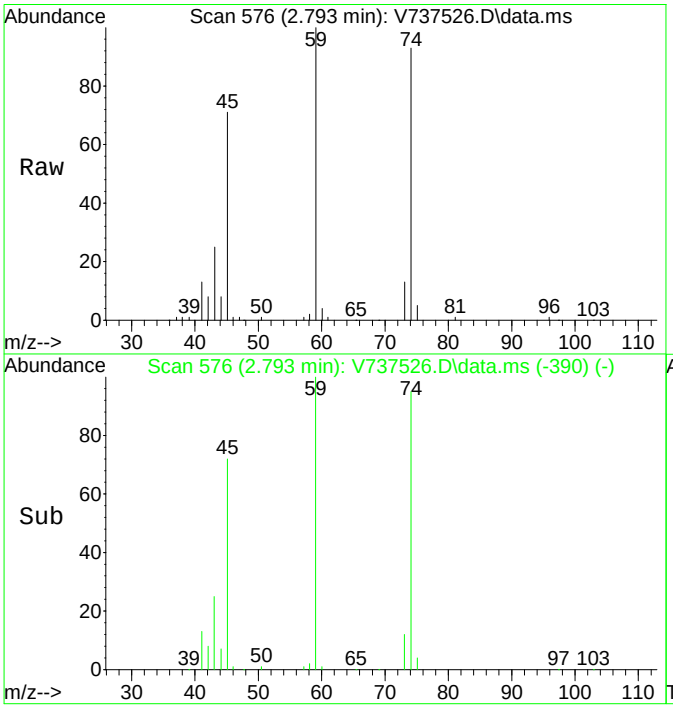


#7
Trichlorofluoromethane
Concen: 13.13 ppb
RT: 2.498 min Scan# 470
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:101 Resp: 560478

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.5	41.9	87.1

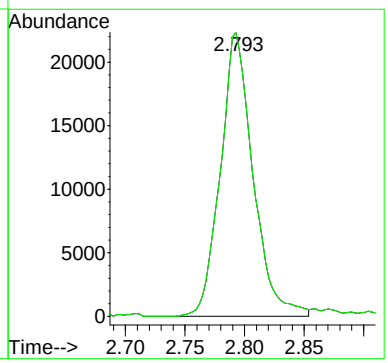


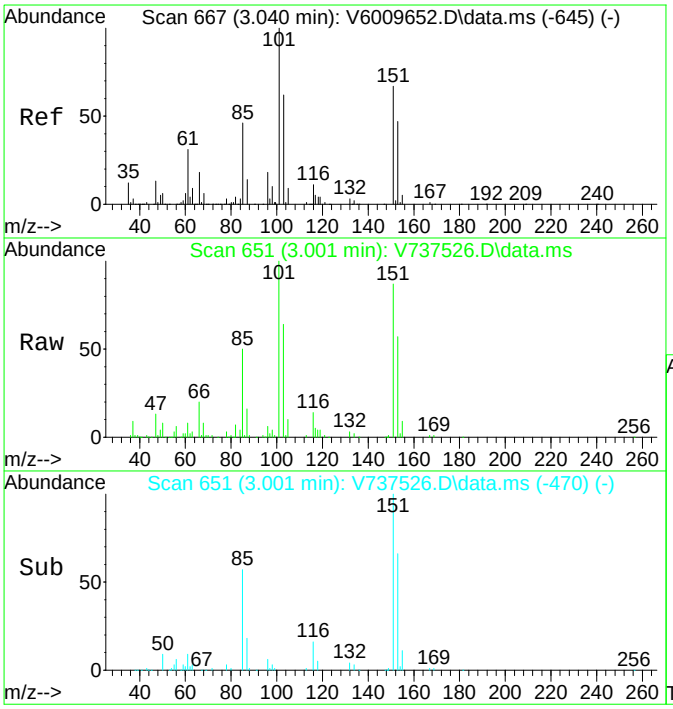


#8
Ethanol
Concen: 1599.90 ppb
RT: 2.793 min Scan# 576
Delta R.T. 0.017 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 45 Resp: 42632

Ion	Ratio	Lower	Upper
45	100		
45	100.0	31.3	93.9#

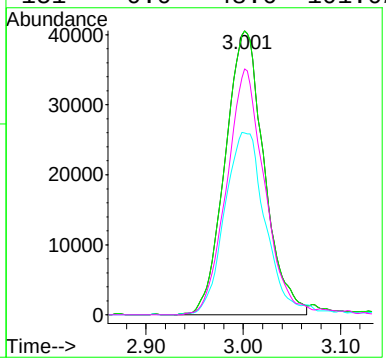


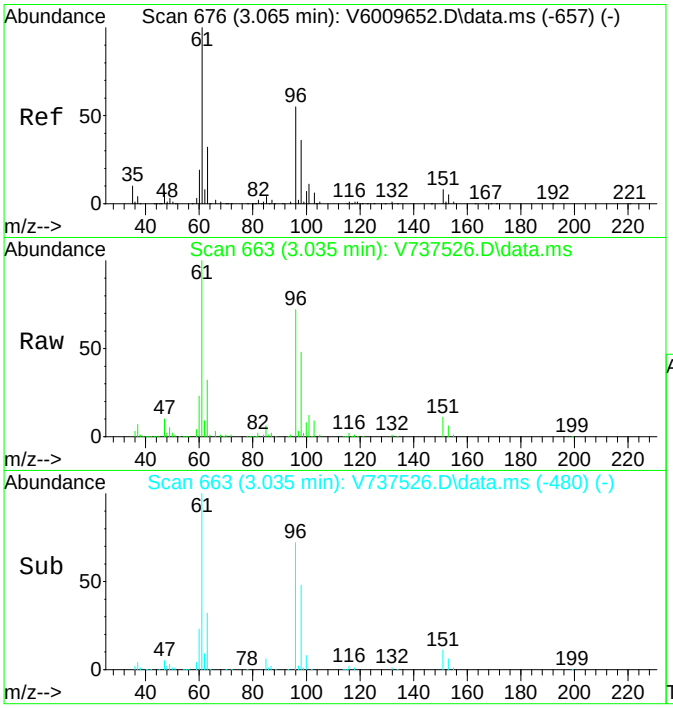


#9
Freon-113
Concen: 12.38 ppb
RT: 3.001 min Scan# 651
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:101 Resp: 113432

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	66.3	40.9	84.9
151	0.0	48.6	101.0#

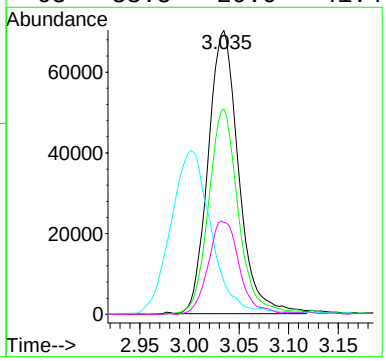


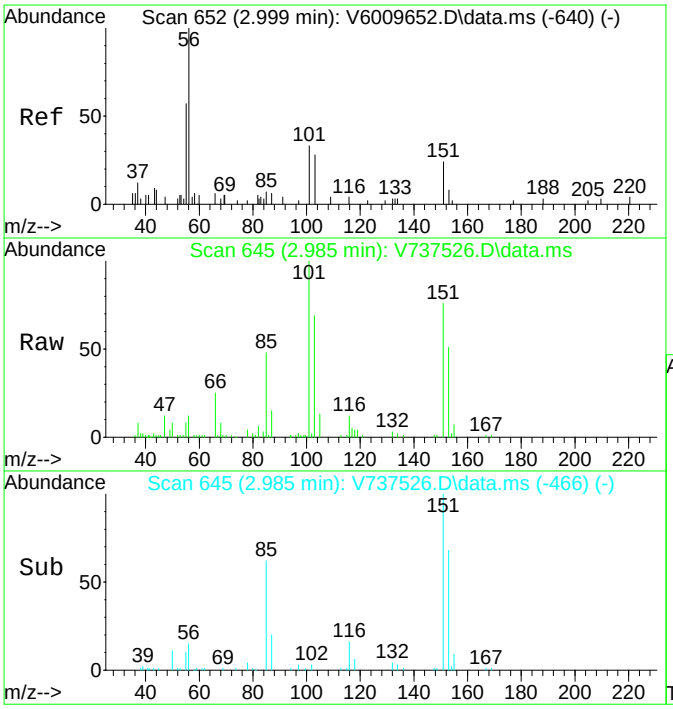


#10
1,1-Dichloroethylene
Concen: 12.34 ppb
RT: 3.035 min Scan# 663
Delta R.T. 0.008 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 61 Resp: 150267

Ion	Ratio	Lower	Upper
61	100		
96	70.5	33.9	70.3#
101	75.5	32.0	66.4#
63	33.5	20.0	41.4

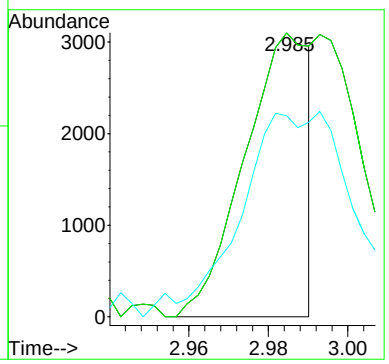


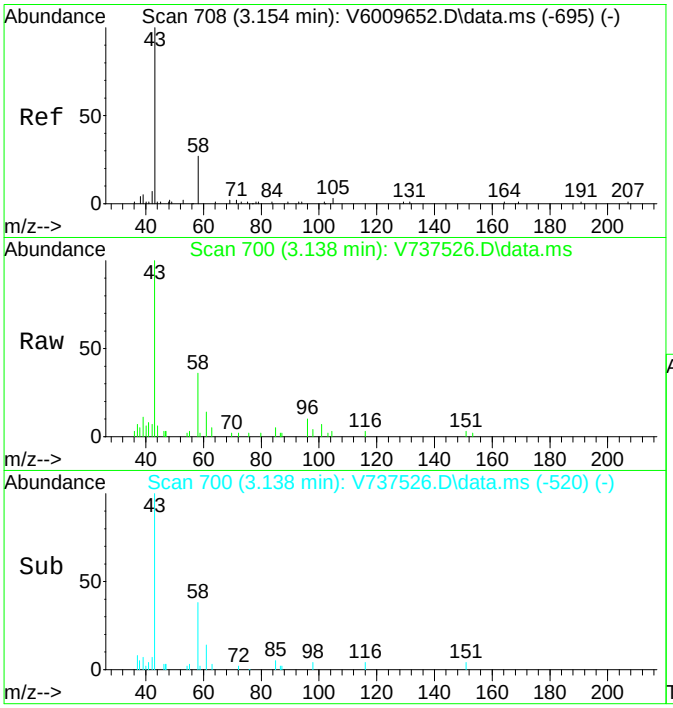


#11
Acrolein
Concen: 4.12 ppb
RT: 2.985 min Scan# 645
Delta R.T. -0.002 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 56 Resp: 3513

Ion	Ratio	Lower	Upper
56	100		
56	100.0	74.8	112.2
55	67.3	34.3	102.9

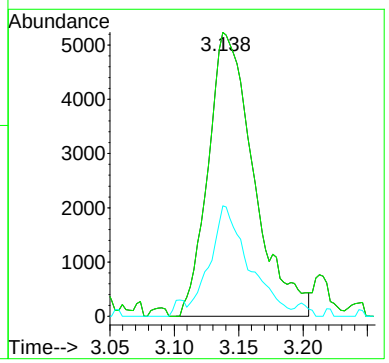


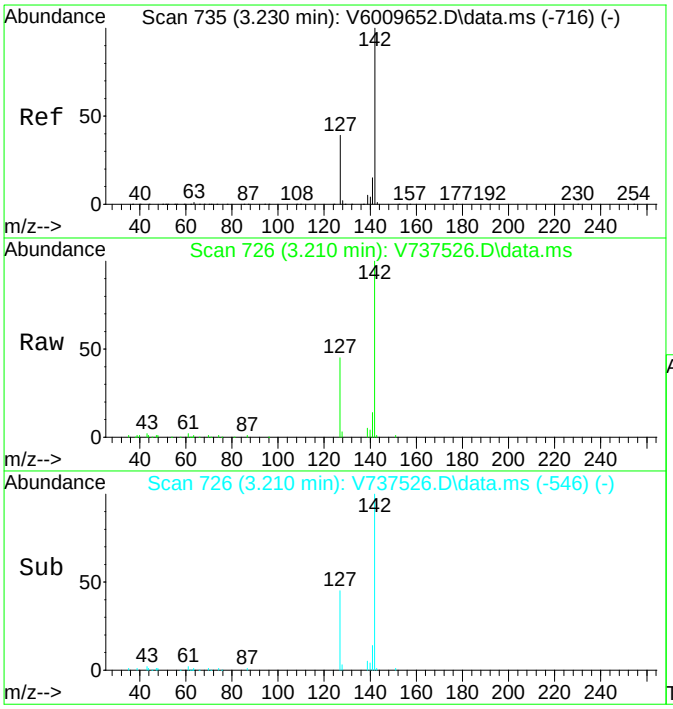


#12
Acetone
Concen: 9.68 ppb
RT: 3.138 min Scan# 700
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 43 Resp: 12899

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	33.1	0.0	0.0#

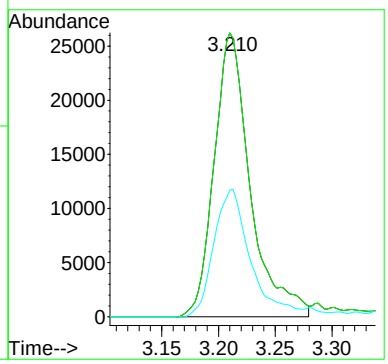


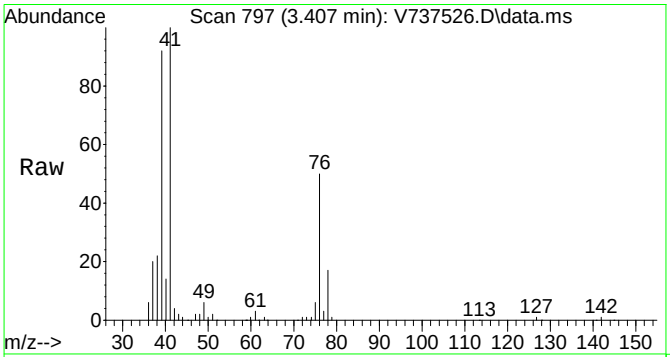


#13
Iodomethane
Concen: 26.72 ppb
RT: 3.210 min Scan# 726
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:142 Resp: 58076

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	45.2	20.9	62.8

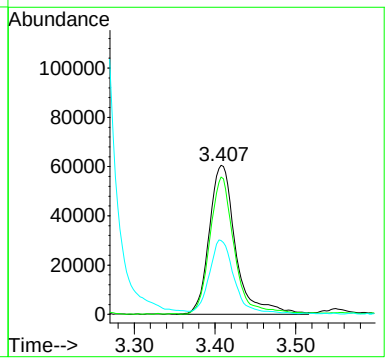


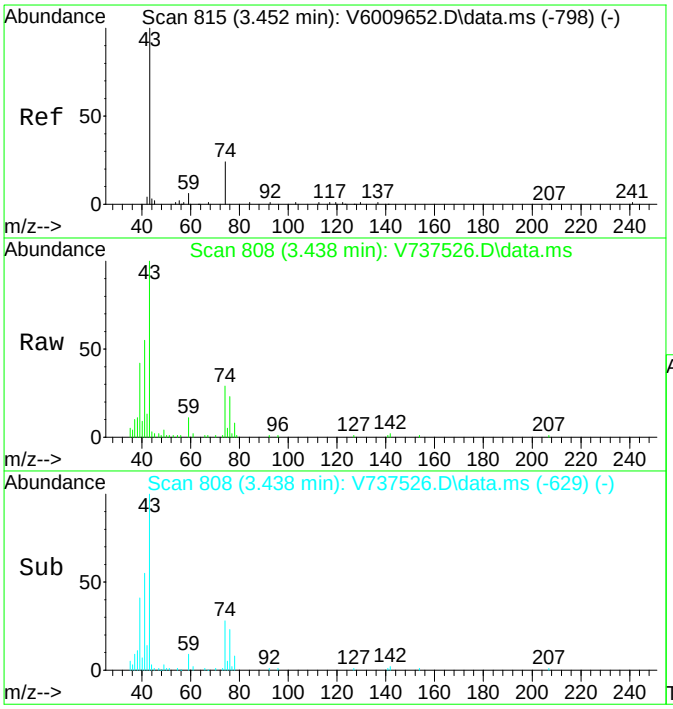


#14
Ally Chloride
Concen: 12.42 ppb
RT: 3.407 min Scan# 797
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 41 Resp: 138799

Ion	Ratio	Lower	Upper
41	100		
39	85.2	54.5	81.7#
76	46.3	24.3	36.5#

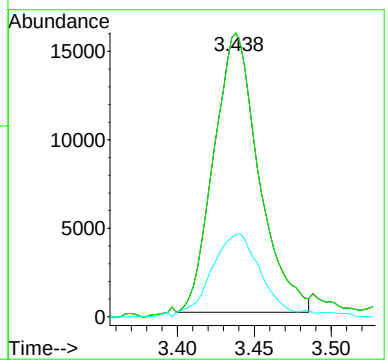


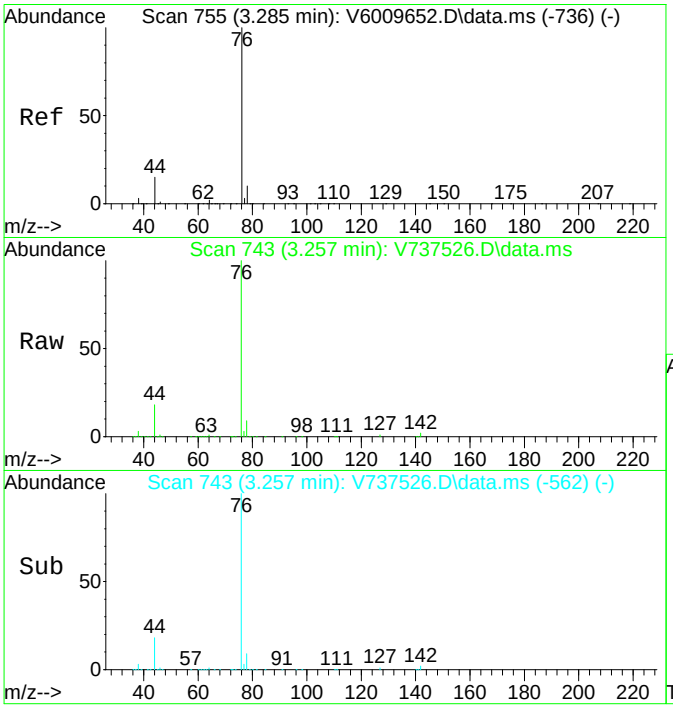


#15
Methyl Acetate
Concen: 9.83 ppb
RT: 3.438 min Scan# 808
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 43 Resp: 32145

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	32.2	8.5	25.5#

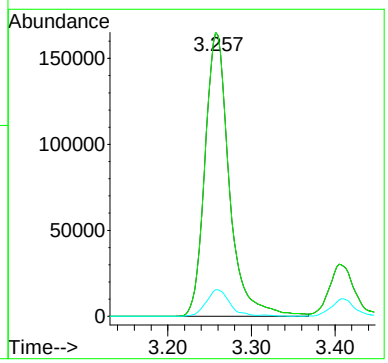


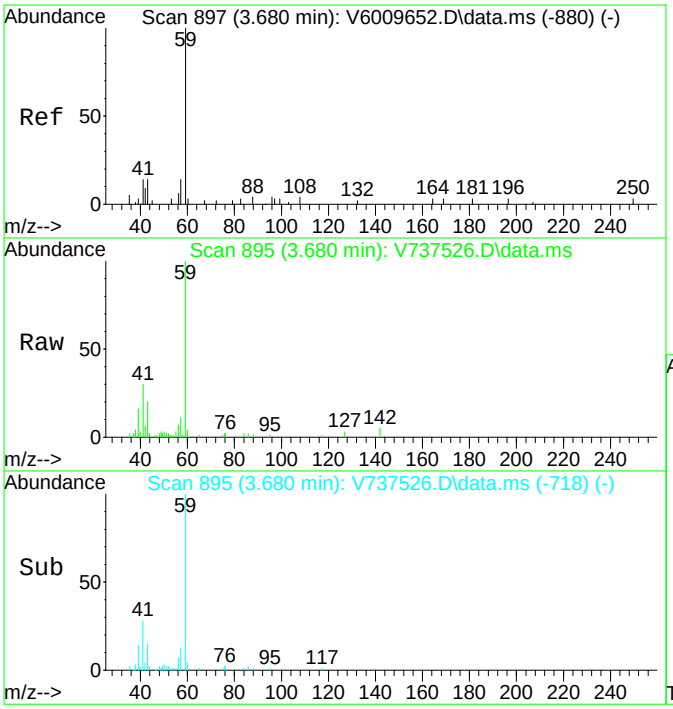


#16
Carbon disulfide
Concen: 12.50 ppb
RT: 3.257 min Scan# 743
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 76 Resp: 334671

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	9.1	4.5	13.5

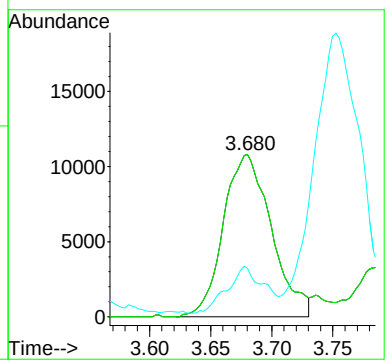


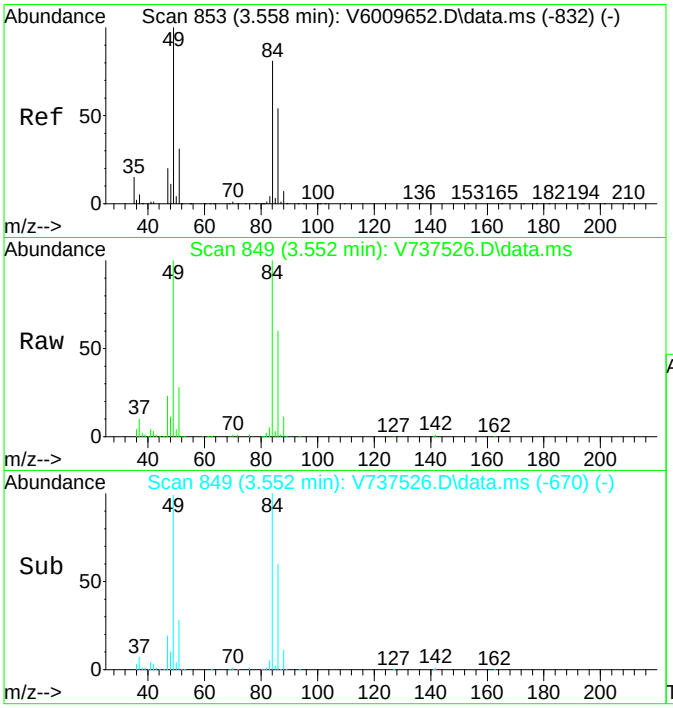


#17
tert-Butyl Alcohol (TBA)
Concen: 53.31 ppb
RT: 3.680 min Scan# 895
Delta R.T. -0.009 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 59 Resp: 29584

Ion	Ratio	Lower	Upper
59	100		
59	100.0	65.0	135.0
41	0.0	0.0	0.0

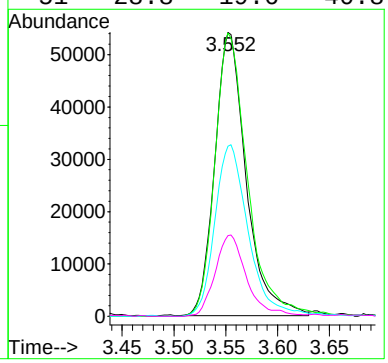


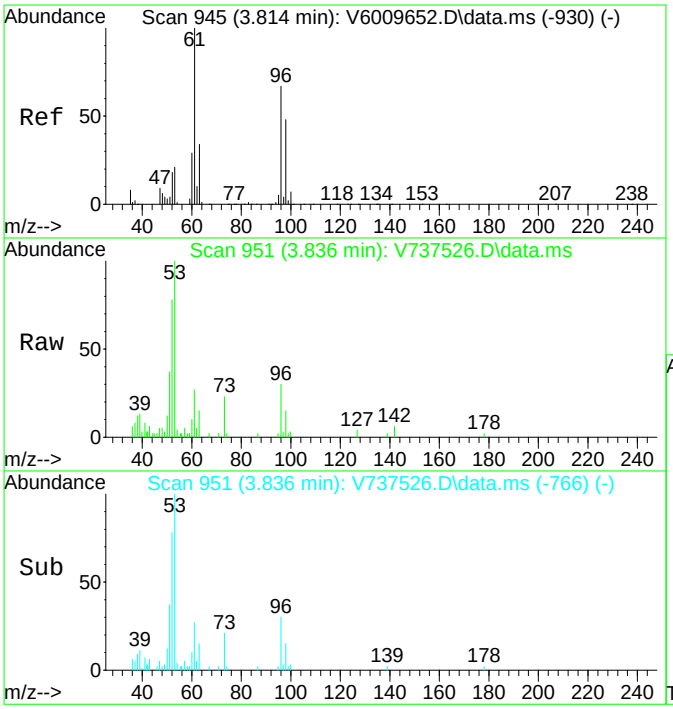


#18
Methylene Chloride
Concen: 12.27 ppb
RT: 3.552 min Scan# 849
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 49 Resp: 114491

Ion	Ratio	Lower	Upper
49	100		
84	103.2	38.0	78.8#
86	64.2	24.0	49.8#
51	28.8	19.6	40.8

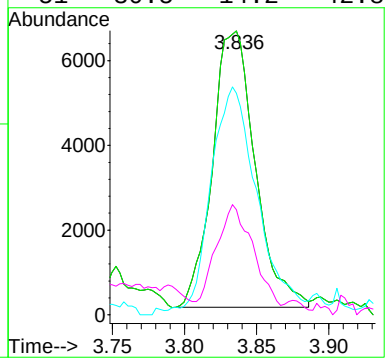


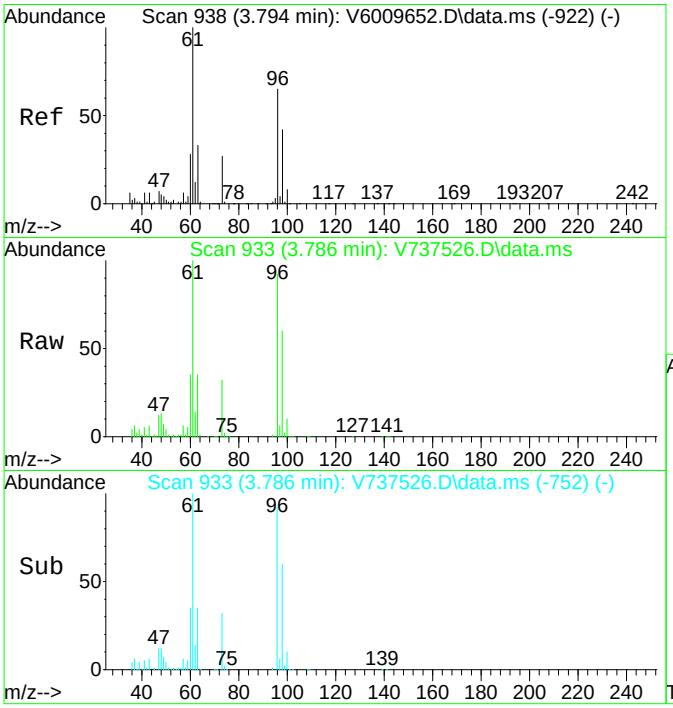


#19
Acrylonitrile
Concen: 10.64 ppb
RT: 3.836 min Scan# 951
Delta R.T. 0.014 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 53 Resp: 13435

Ion	Ratio	Lower	Upper
53	100		
53	100.0	62.2	93.4#
52	85.5	0.0	0.0#
51	30.5	14.2	42.8

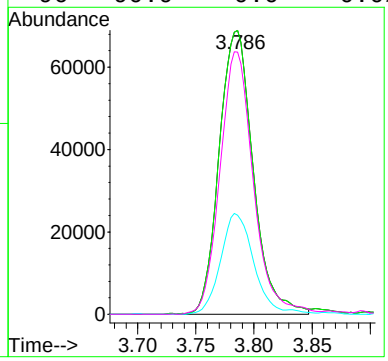


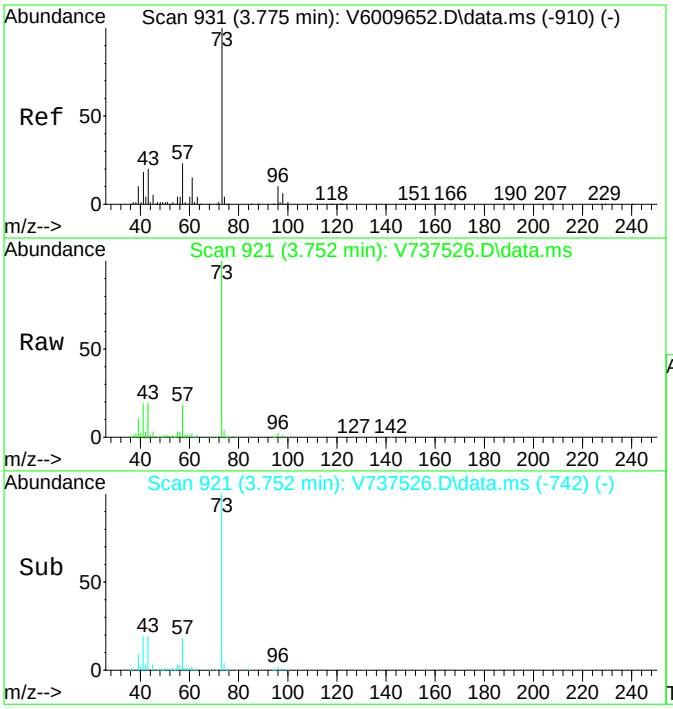


#20
trans-1,2-Dichloroethylene
Concen: 12.39 ppb
RT: 3.786 min Scan# 933
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 61 Resp: 140228

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	34.1	0.0	0.0#
96	90.9	0.0	0.0#

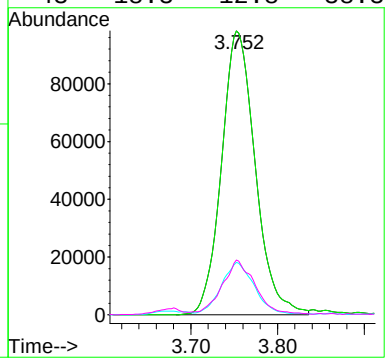


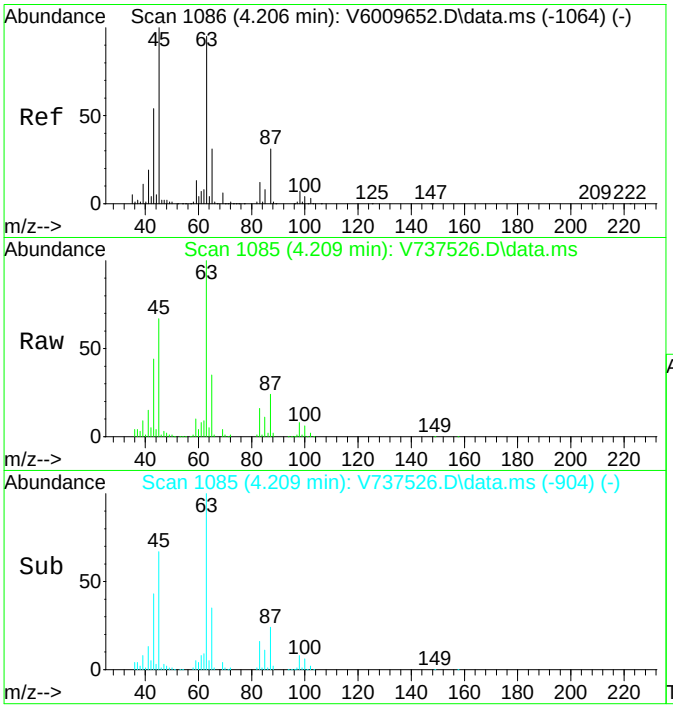


#21
tert-Butyl Methyl Ether (MTBE)
Concen: 11.65 ppb
RT: 3.752 min Scan# 921
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 73 Resp: 266536

Ion	Ratio	Lower	Upper
73	100		
73	100.0	80.0	120.0
57	17.0	13.2	39.5
43	18.3	12.8	38.3

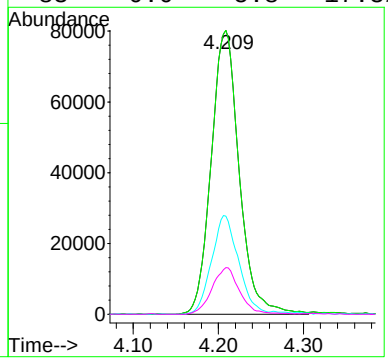


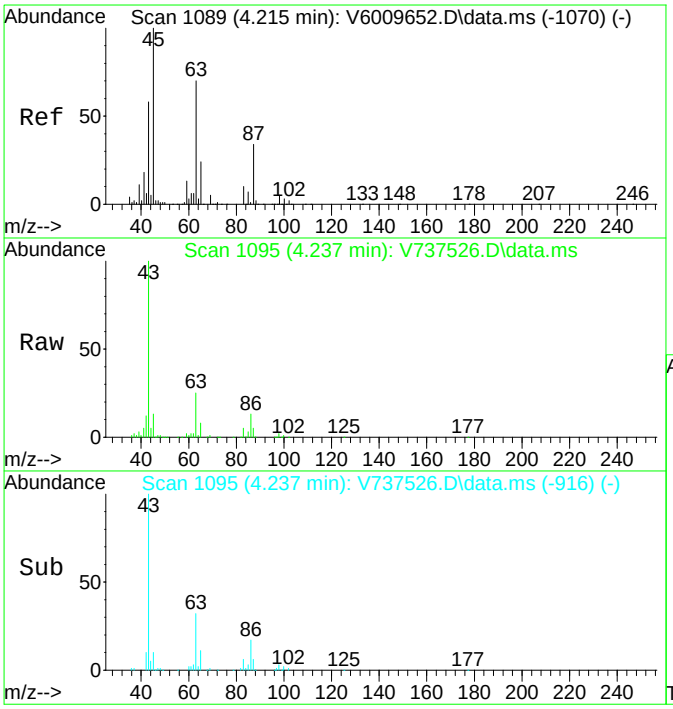


#22
1,1-Dichloroethane
Concen: 11.26 ppb
RT: 4.209 min Scan# 1085
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 63 Resp: 183738

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	33.4	19.9	41.3
83	0.0	5.8	17.3#

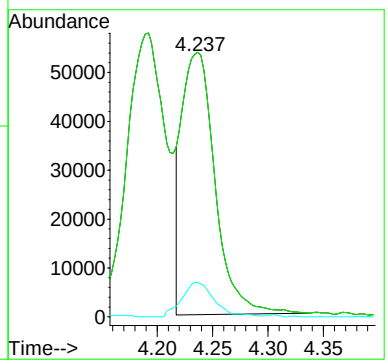


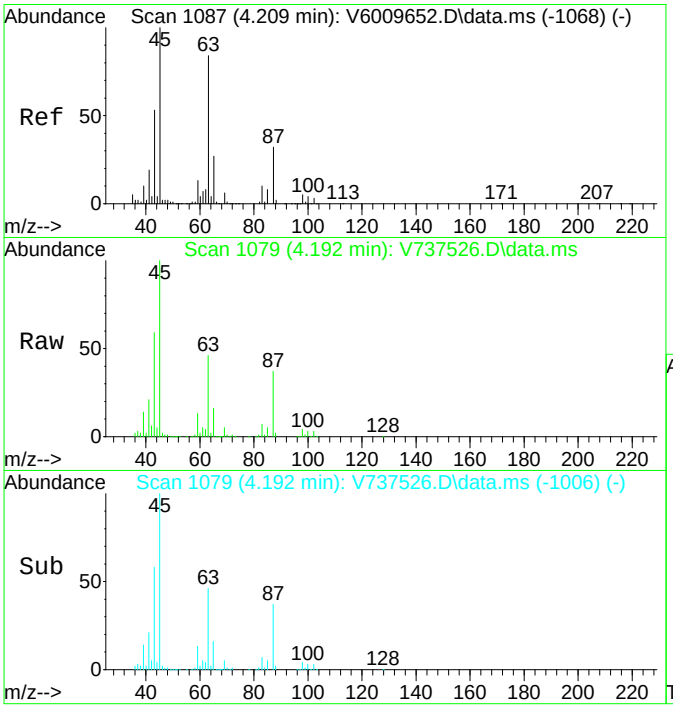


#23
Vinyl Acetate
Concen: 9.19 ppb
RT: 4.237 min Scan# 1095
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 43 Resp: 112125

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
86	0.0	0.0	0.0

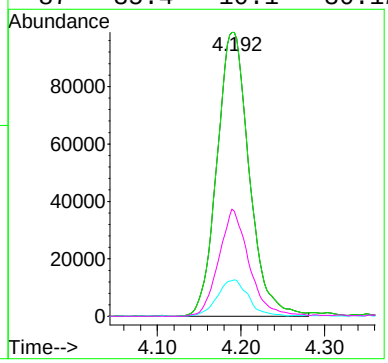


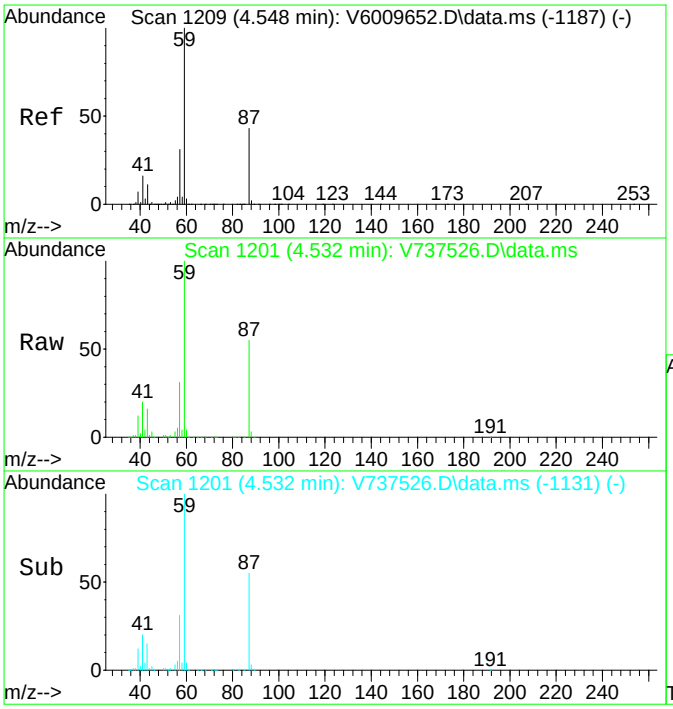


#24
Diisopropyl ether (DIPE)
Concen: 11.28 ppb
RT: 4.192 min Scan# 1079
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 45 Resp: 265035

Ion	Ratio	Lower	Upper
45	100		
45	100.0	80.0	120.0
59	0.0	5.1	15.3#
87	35.4	10.1	30.1#

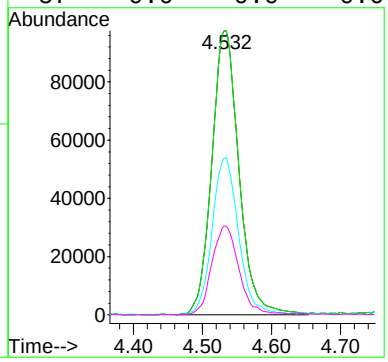


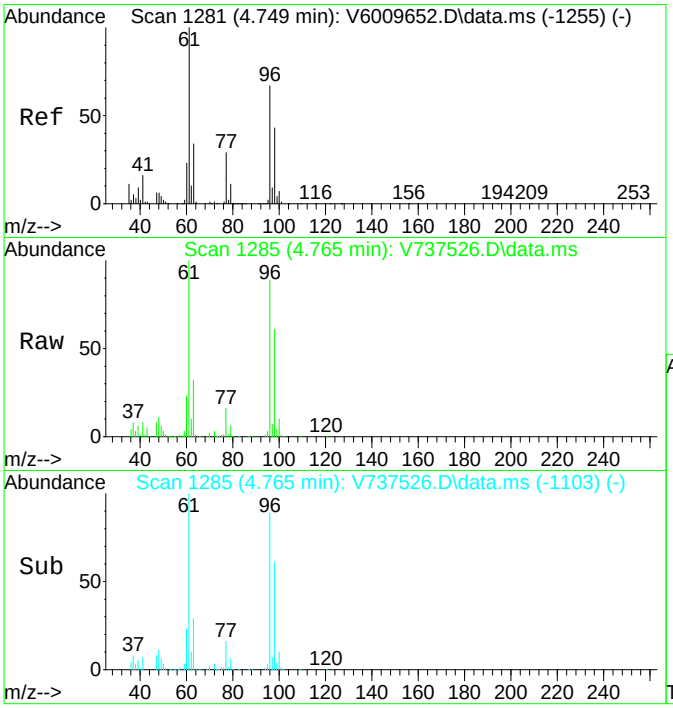


#25
Ethyl-tert-Butyl ether (ETBE)
Concen: 11.99 ppb
RT: 4.532 min Scan# 1201
Delta R.T. -0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 59 Resp: 267283

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
87	53.6	17.0	51.0#
57	0.0	0.0	0.0

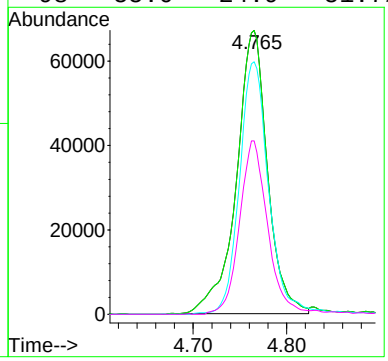


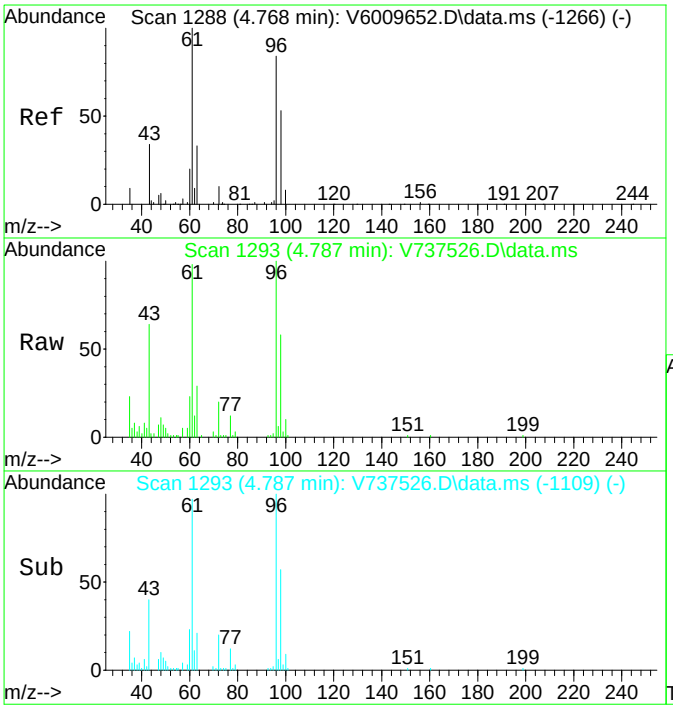


#26
cis-1,2-Dichloroethylene
Concen: 11.78 ppb
RT: 4.765 min Scan# 1285
Delta R.T. 0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 61 Resp: 155526

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	37.8	78.4#
98	55.0	24.9	51.7#

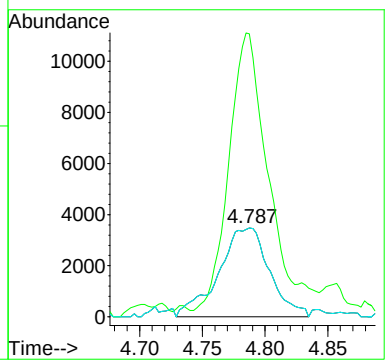


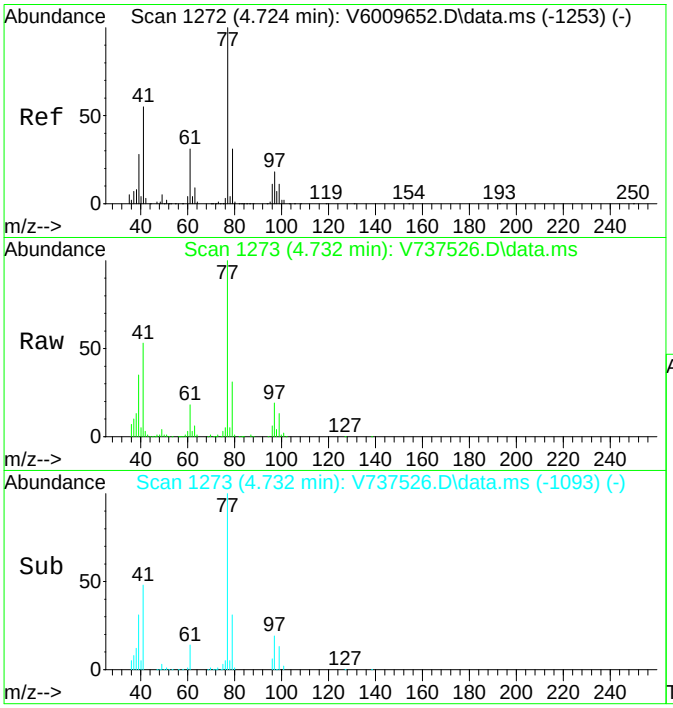


#27
2-Butanone
Concen: 11.94 ppb
RT: 4.787 min Scan# 1293
Delta R.T. 0.011 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 72 Resp: 9766

Ion	Ratio	Lower	Upper
72	100		
43	240.7	0.0	0.0#
72	100.0	50.0	150.0

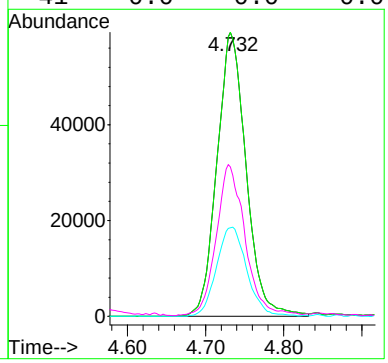


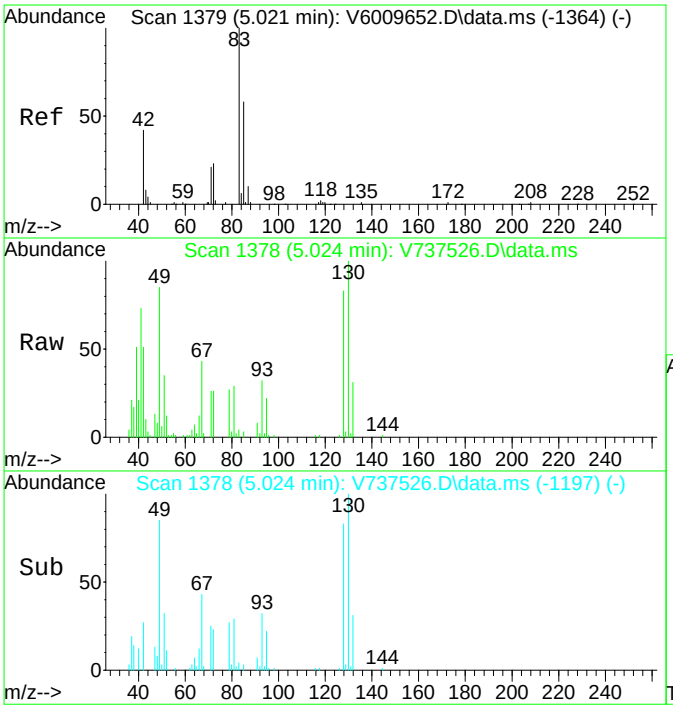


#28
2,2-Dichloropropane
Concen: 11.16 ppb
RT: 4.732 min Scan# 1273
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 77 Resp: 153931

Ion	Ratio	Lower	Upper
77	100		
77	100.0	80.0	120.0
79	32.6	20.9	43.5
41	0.0	0.0	0.0

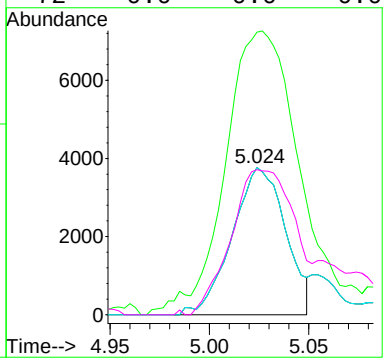


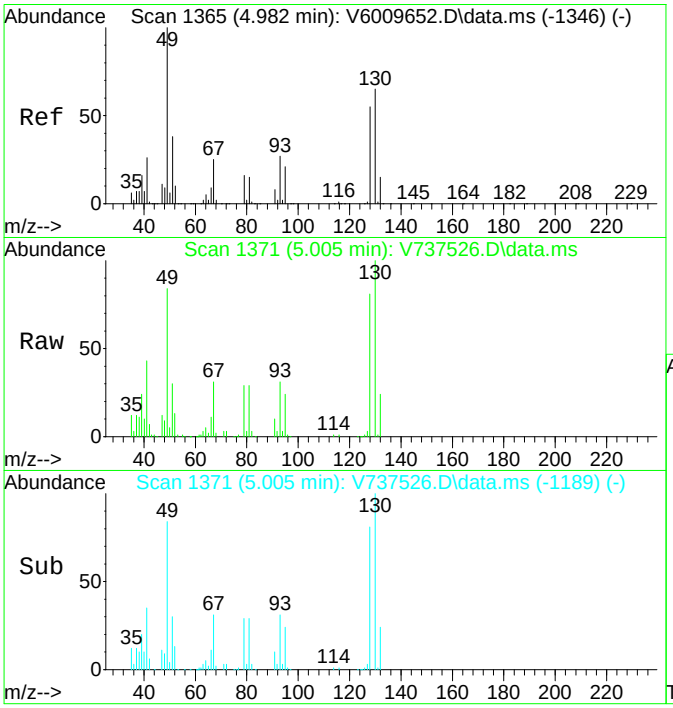


#29
Tetrahydrofuran
Concen: 8.97 ppb
RT: 5.024 min Scan# 1378
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 71 Resp: 7057

Ion	Ratio	Lower	Upper
71	100		
42	0.0	279.2	418.8#
71	100.0	50.0	150.0
72	0.0	0.0	0.0

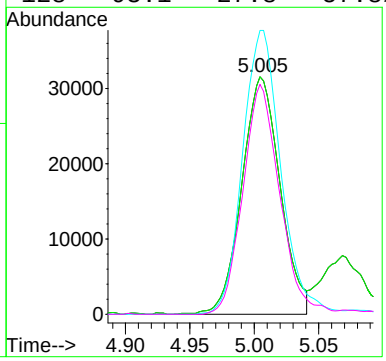


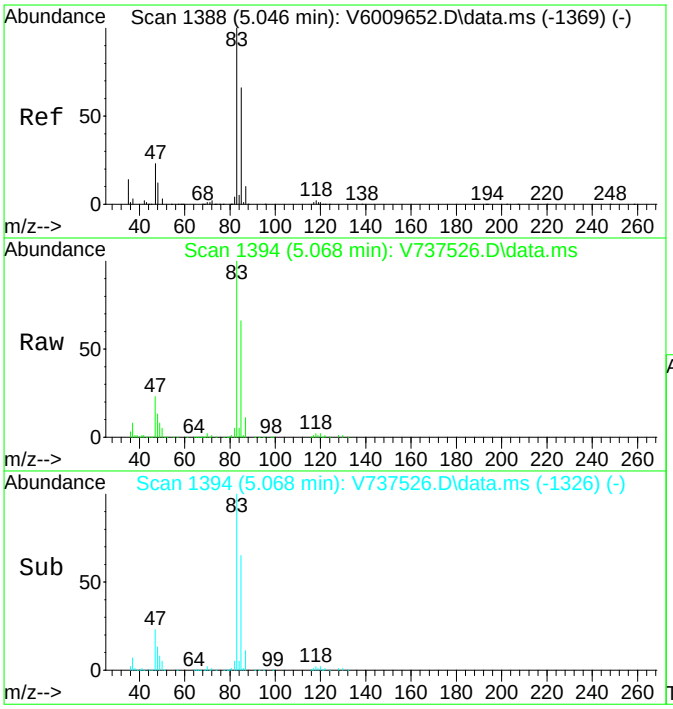


#30
Bromochloromethane
Concen: 11.10 ppb
RT: 5.005 min Scan# 1371
Delta R.T. 0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 49 Resp: 65258

Ion	Ratio	Lower	Upper
49	100		
49	100.0	65.0	135.0
130	119.5	35.7	74.1#
128	93.1	27.8	57.8#

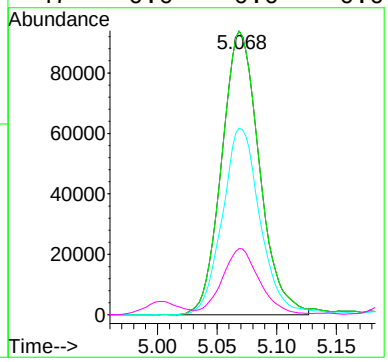


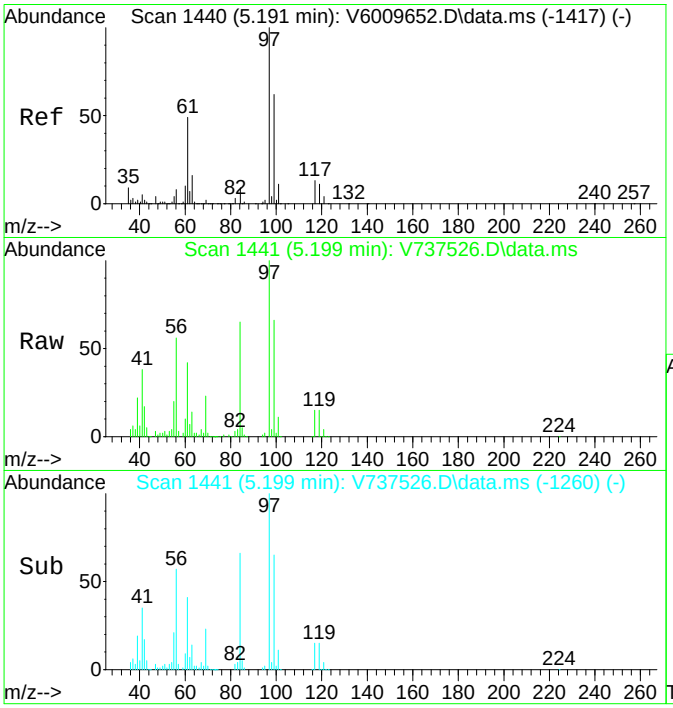


#31
Chloroform
Concen: 11.72 ppb
RT: 5.068 min Scan# 1394
Delta R.T. -0.011 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 83 Resp: 206603

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	66.4	41.8	86.8
47	0.0	0.0	0.0

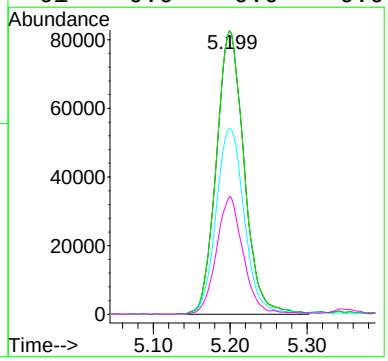


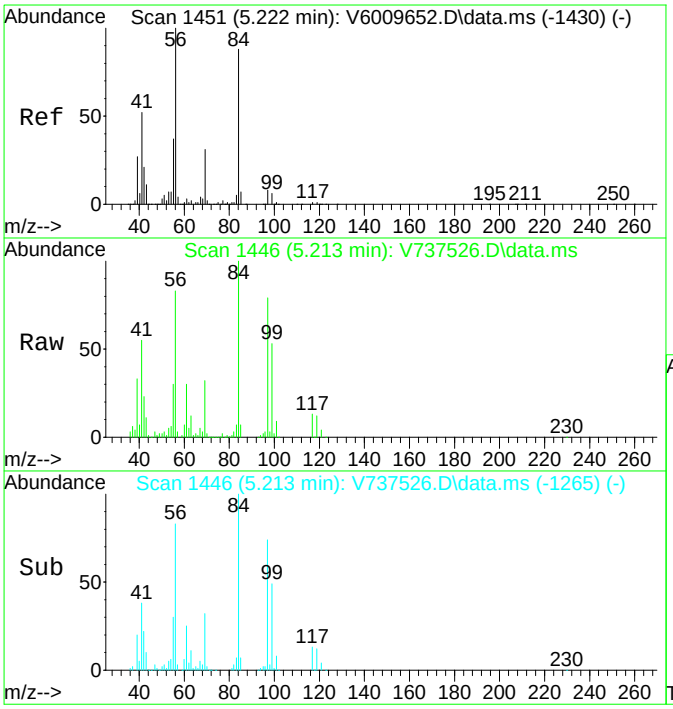


#32
1,1,1-Trichloroethane
Concen: 12.78 ppb
RT: 5.199 min Scan# 1441
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 97 Resp: 207620

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	66.8	42.3	87.9
61	0.0	0.0	0.0

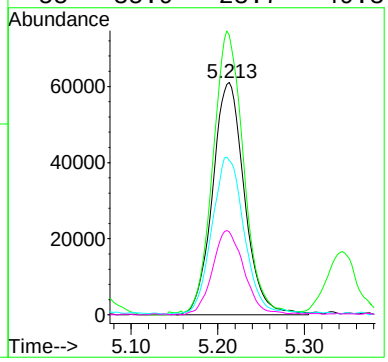


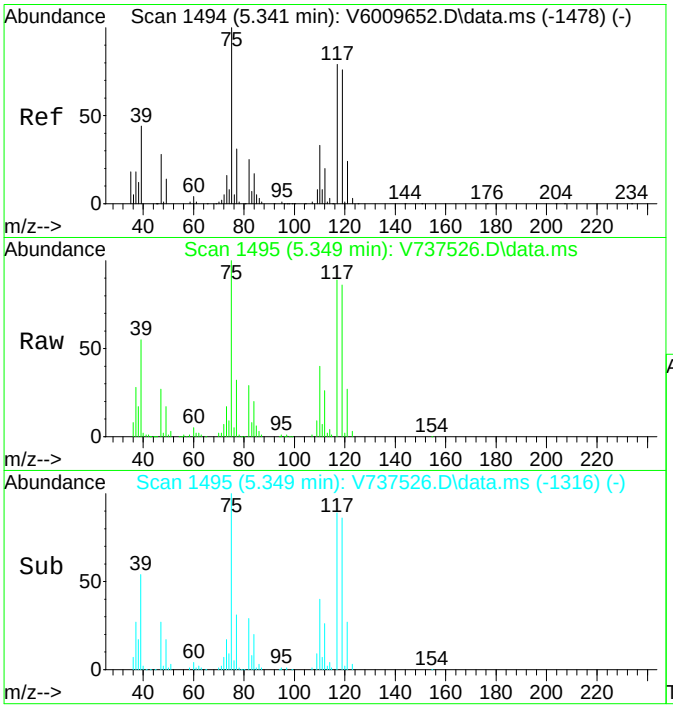


#33
Cyclohexane
Concen: 12.79 ppb
RT: 5.213 min Scan# 1446
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 56 Resp: 156424

Ion	Ratio	Lower	Upper
56	100		
84	115.3	44.2	91.8#
41	66.5	37.9	78.7
55	35.9	23.7	49.3

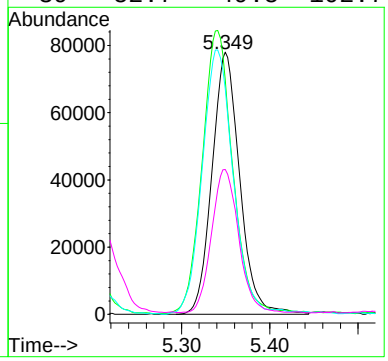


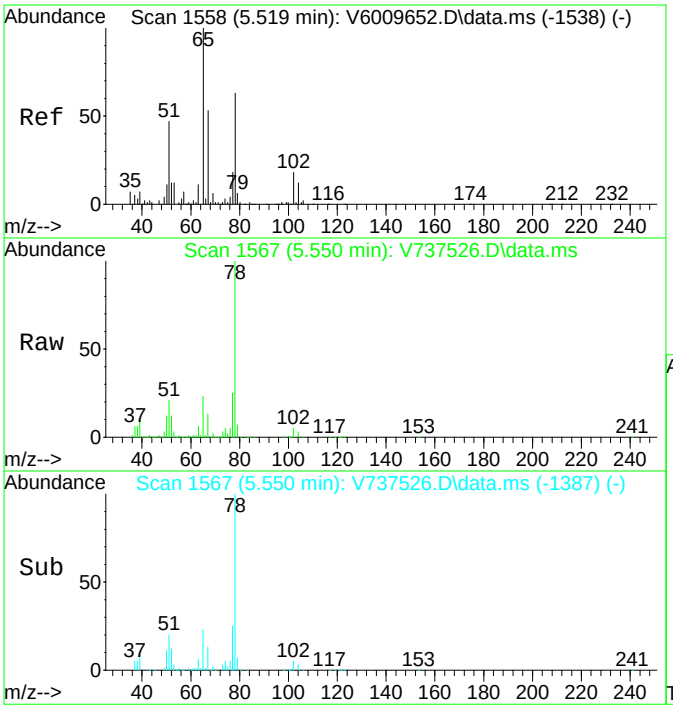


#34
1,1-Dichloropropylene
Concen: 11.91 ppb
RT: 5.349 min Scan# 1495
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 75 Resp: 170499

Ion	Ratio	Lower	Upper
75	100		
117	118.0	65.3	135.5
119	112.1	62.6	130.0
39	52.7	49.5	102.7

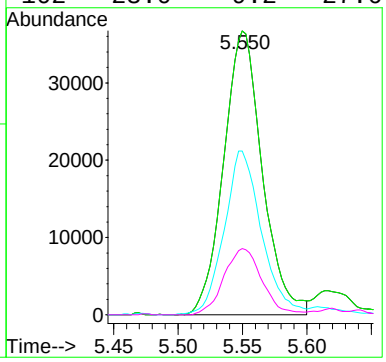


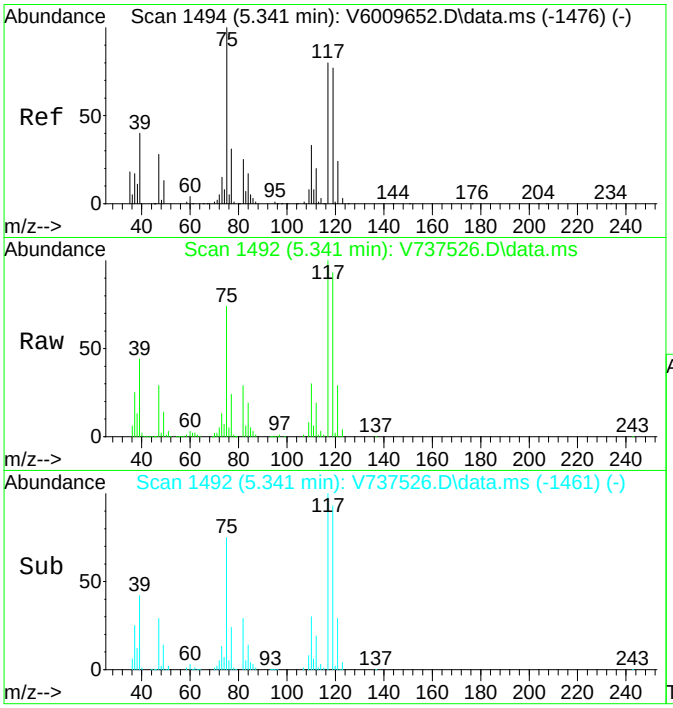


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.85 ppb
RT: 5.550 min Scan# 1567
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 65 Resp: 76592

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	55.7	33.0	68.6
102	23.0	9.2	27.6

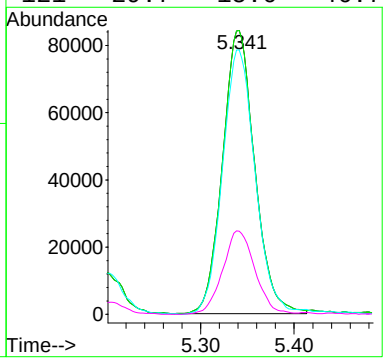


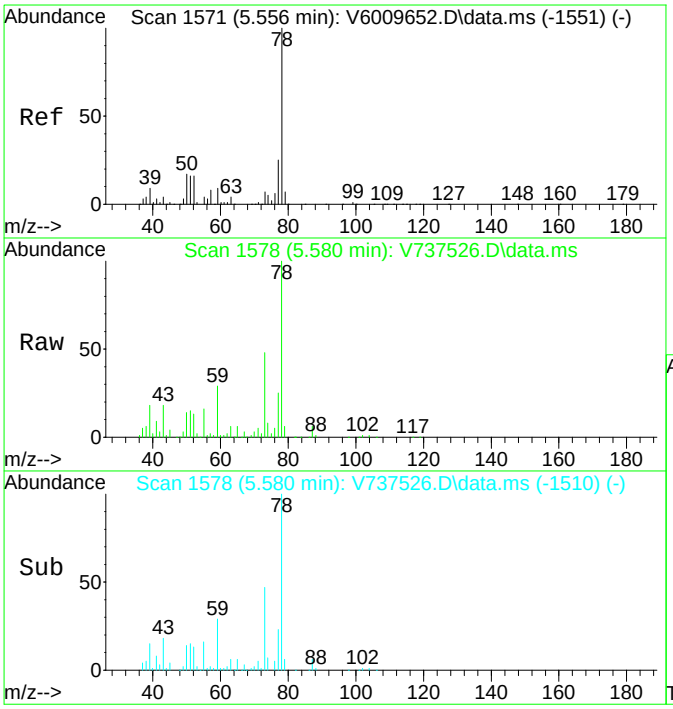


#36
Carbon Tetrachloride
Concen: 12.37 ppb
RT: 5.341 min Scan# 1492
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:117 Resp: 201262

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	95.0	62.3	129.5
121	29.7	15.6	46.7

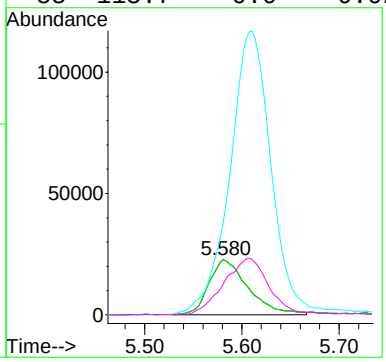


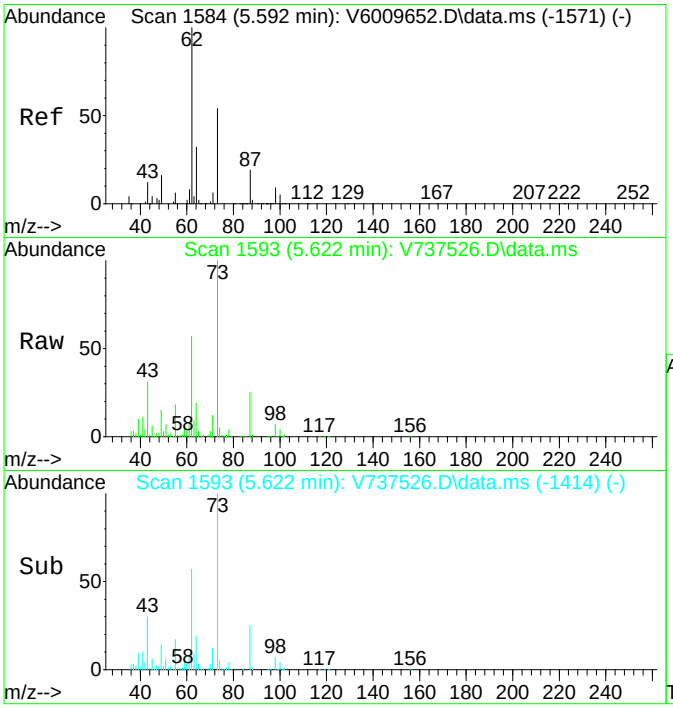


#37
tert-Amyl alcohol (TAA)
Concen: 113.15 ppb
RT: 5.580 min Scan# 1578
Delta R.T. -0.011 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 59 Resp: 64361

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
73	543.6	22.9	68.5#
55	115.7	0.0	0.0#

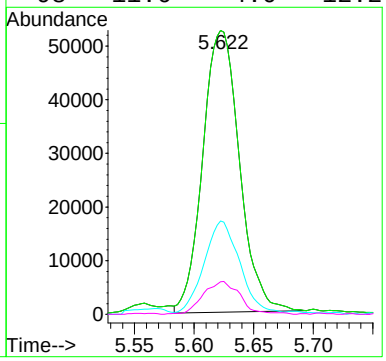


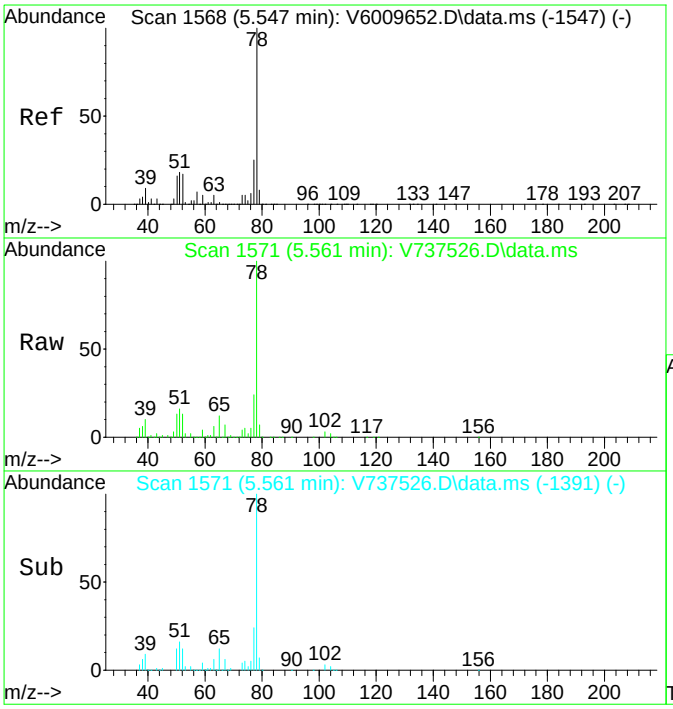


#38
1,2-Dichloroethane
Concen: 11.35 ppb
RT: 5.622 min Scan# 1593
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 62 Resp: 112886

Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	31.3	15.2	45.6
98	11.6	4.0	12.2

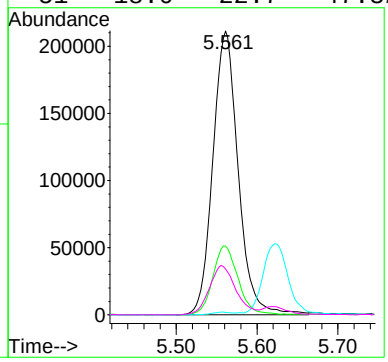


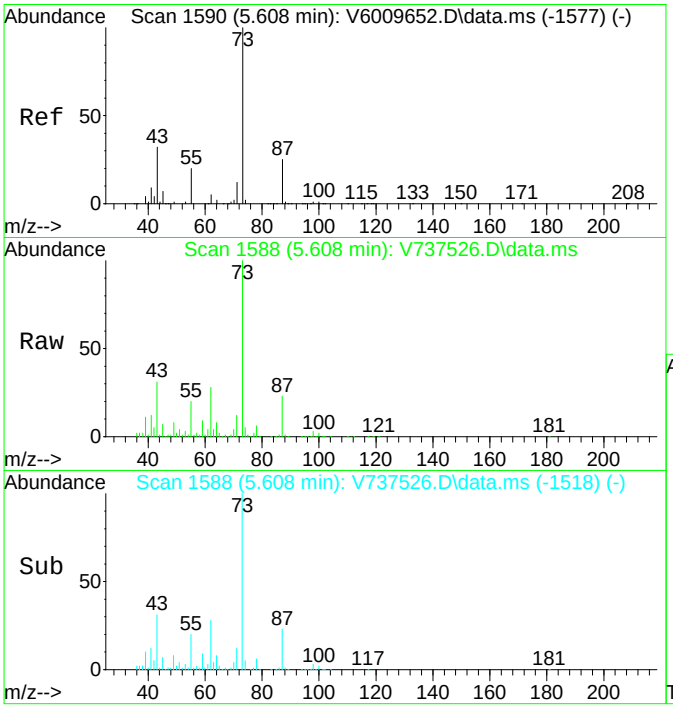


#39
Benzene
Concen: 11.92 ppb
RT: 5.561 min Scan# 1571
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 78 Resp: 461499

Ion	Ratio	Lower	Upper
78	100		
77	24.1	14.7	30.5
62	0.8	19.2	39.8#
51	18.0	22.7	47.3#

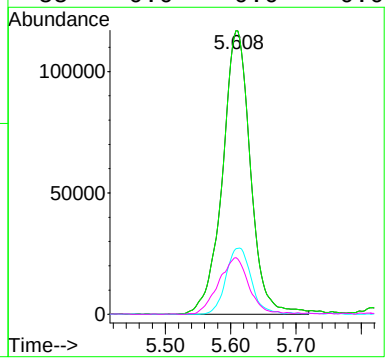


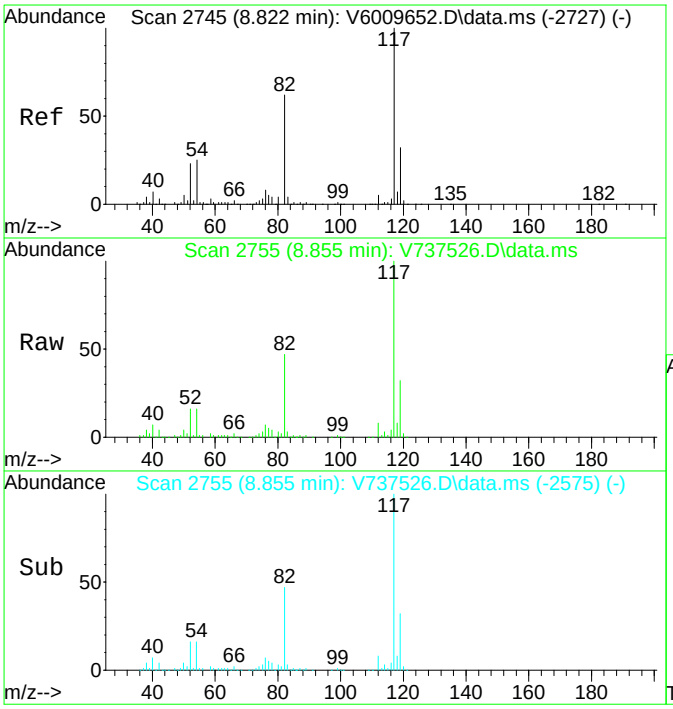


#40
tert-Amyl methyl ether (TAME)
Concen: 12.16 ppb
RT: 5.608 min Scan# 1588
Delta R.T. -0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 73 Resp: 349889

Ion	Ratio	Lower	Upper
73	100		
73	100.0	79.6	119.4
87	21.1	11.9	35.5
55	0.0	0.0	0.0

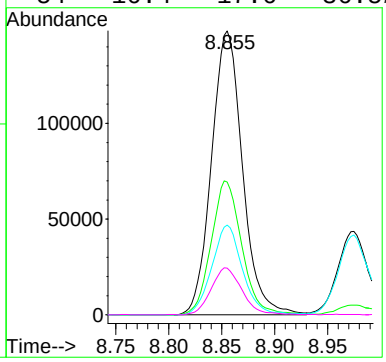


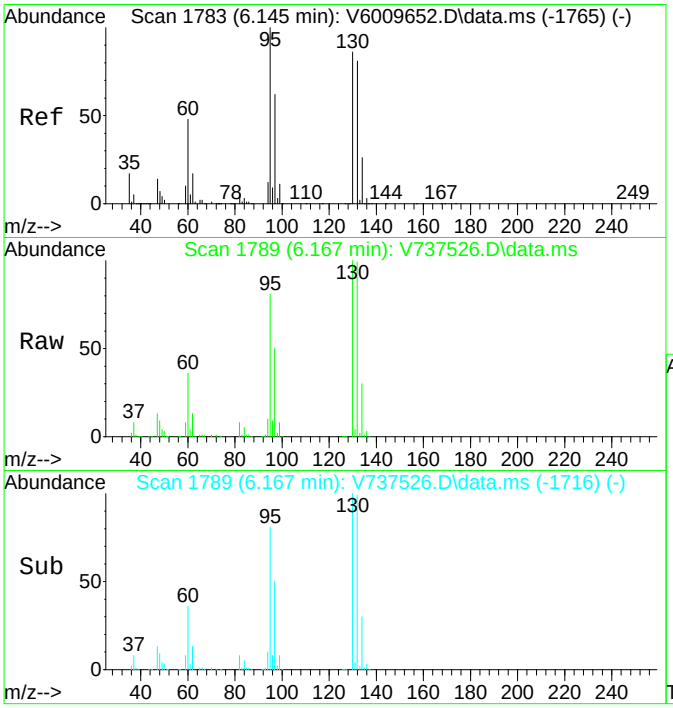


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:117 Resp: 302571

Ion	Ratio	Lower	Upper
117	100		
82	46.4	35.9	74.7
119	31.1	20.8	43.2
54	16.4	17.6	36.5#

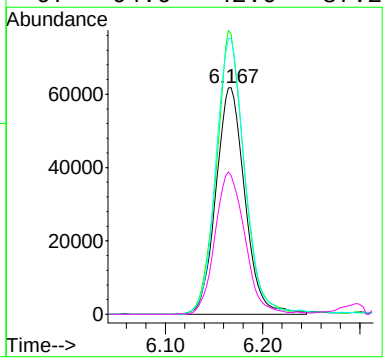


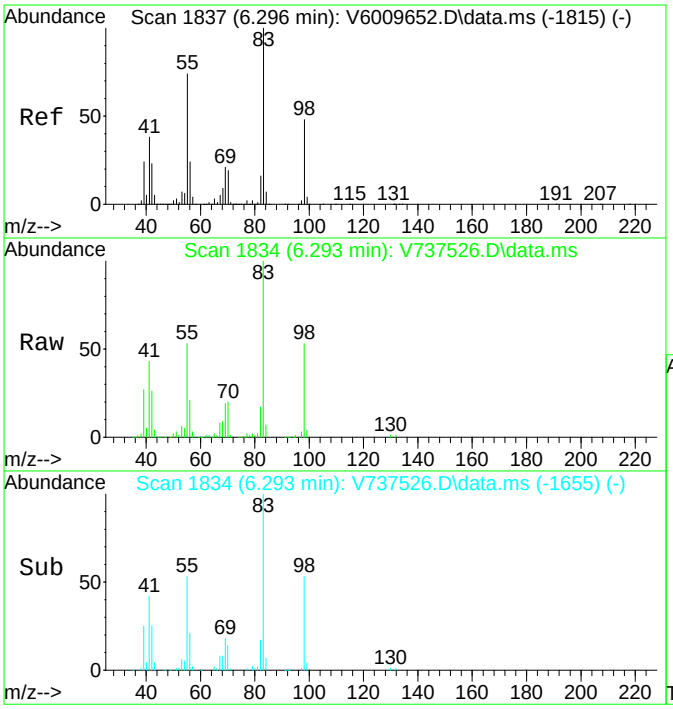


#42
Trichloroethylene
Concen: 11.85 ppb
RT: 6.167 min Scan# 1789
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 95 Resp: 128166

Ion	Ratio	Lower	Upper
95	100		
130	119.8	61.1	126.9
132	120.2	62.0	128.8
97	64.0	42.0	87.2

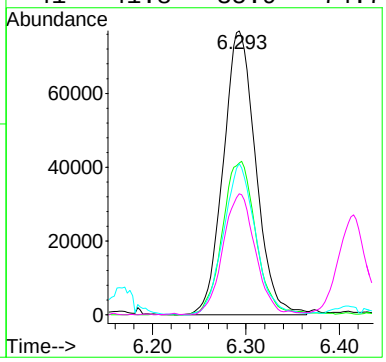


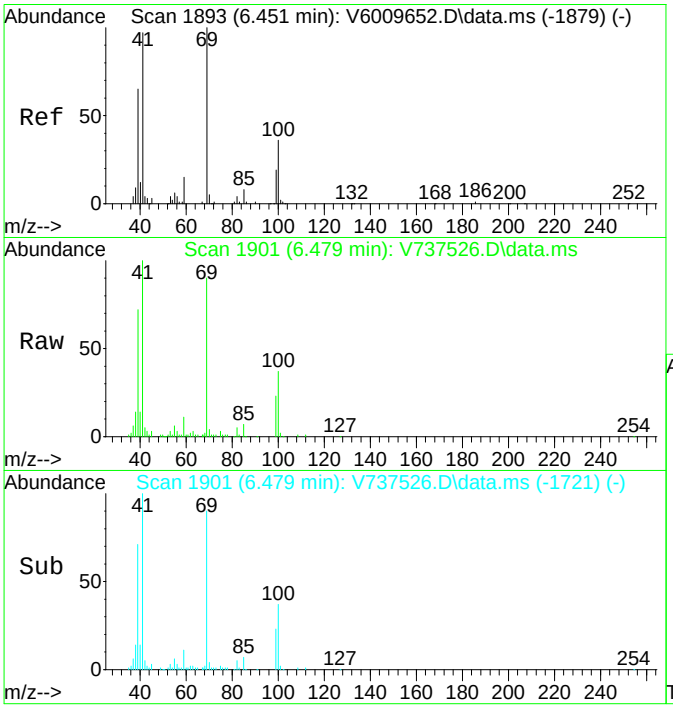


#43
Methyl Cyclohexane
Concen: 12.45 ppb
RT: 6.293 min Scan# 1834
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 83 Resp: 185744

Ion	Ratio	Lower	Upper
83	100		
55	55.9	65.5	136.1#
98	52.4	31.0	64.4
41	41.8	35.9	74.7

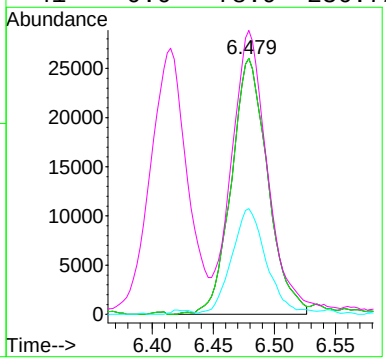


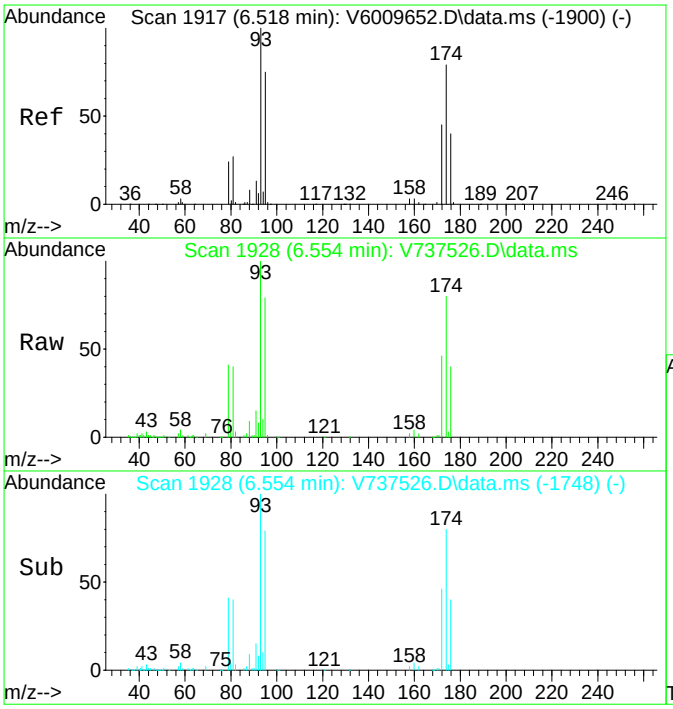


#44
Methyl Methacrylate
Concen: 11.29 ppb
RT: 6.479 min Scan# 1901
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 69 Resp: 53838

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	38.6	0.0	0.0#
41	0.0	78.9	236.7#

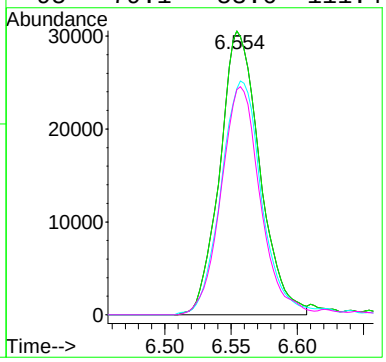


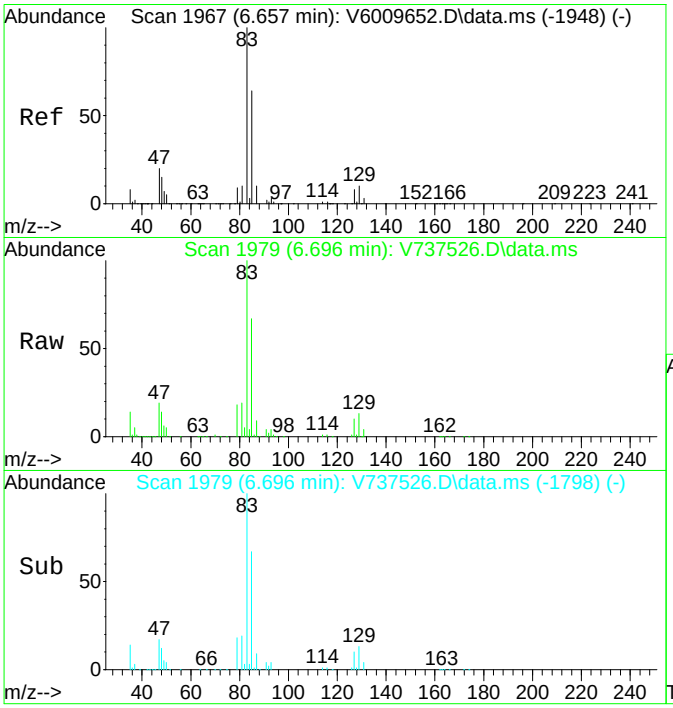


#45
Dibromomethane
Concen: 11.52 ppb
RT: 6.554 min Scan# 1928
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 93 Resp: 63938

Ion	Ratio	Lower	Upper
93	100		
93	100.0	65.0	135.0
174	84.1	60.5	125.6
95	79.1	53.6	111.4

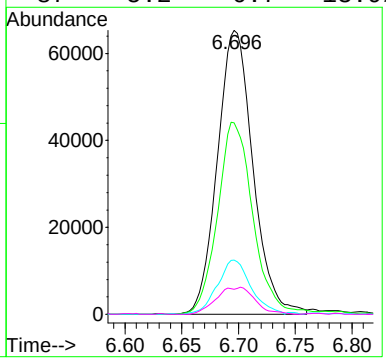


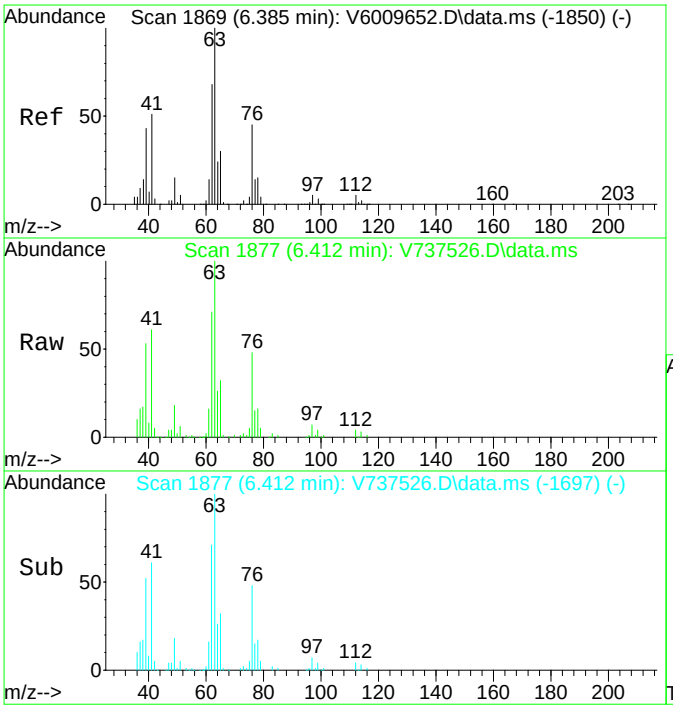


#46
Bromodichloromethane
Concen: 11.62 ppb
RT: 6.696 min Scan# 1979
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 83 Resp: 143006

Ion	Ratio	Lower	Upper
83	100		
85	67.2	41.0	85.0
47	18.0	15.9	33.1
87	5.2	6.7	13.9#

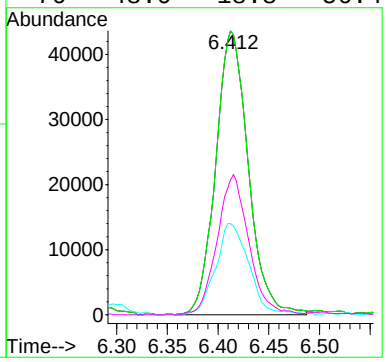


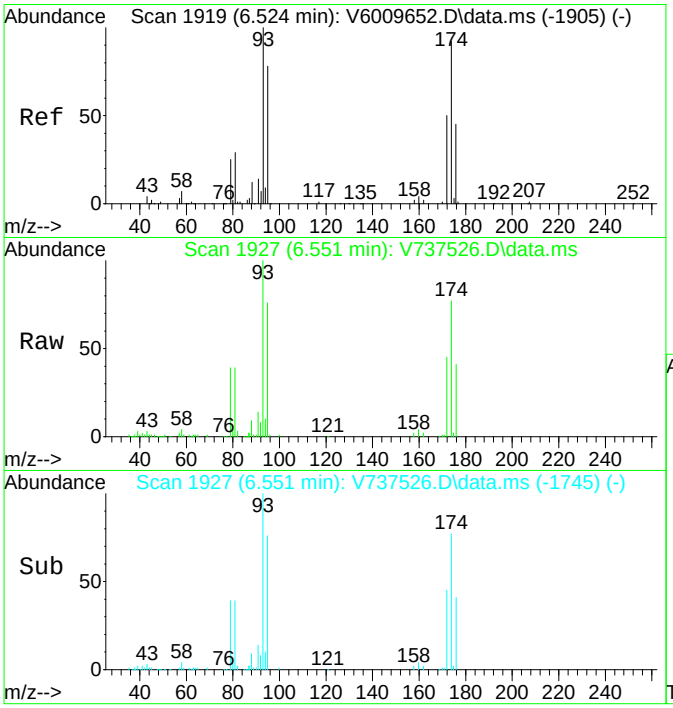


#47
1,2-Dichloropropane
Concen: 11.19 ppb
RT: 6.412 min Scan# 1877
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 63 Resp: 97462

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	0.0	14.5	43.6#
76	48.0	18.8	56.4

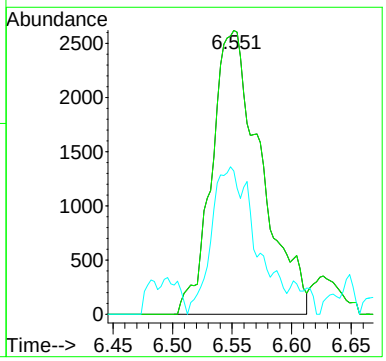


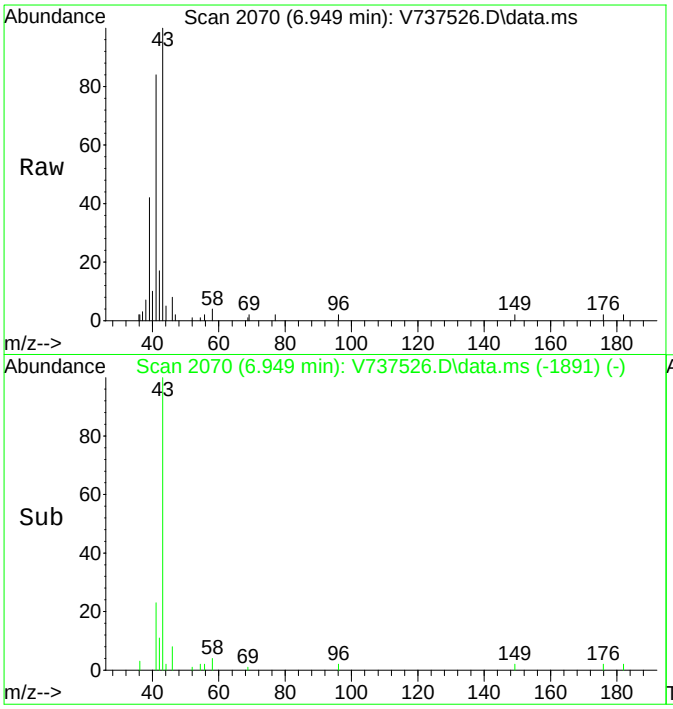


#48
1,4-Dioxane
Concen: 227.68 ppb
RT: 6.551 min Scan# 1927
Delta R.T. 0.005 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 88 Resp: 7539

Ion	Ratio	Lower	Upper
88	100		
88	100.0	80.0	120.0
58	29.0	30.8	92.3#

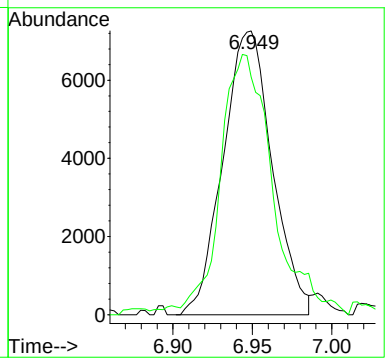


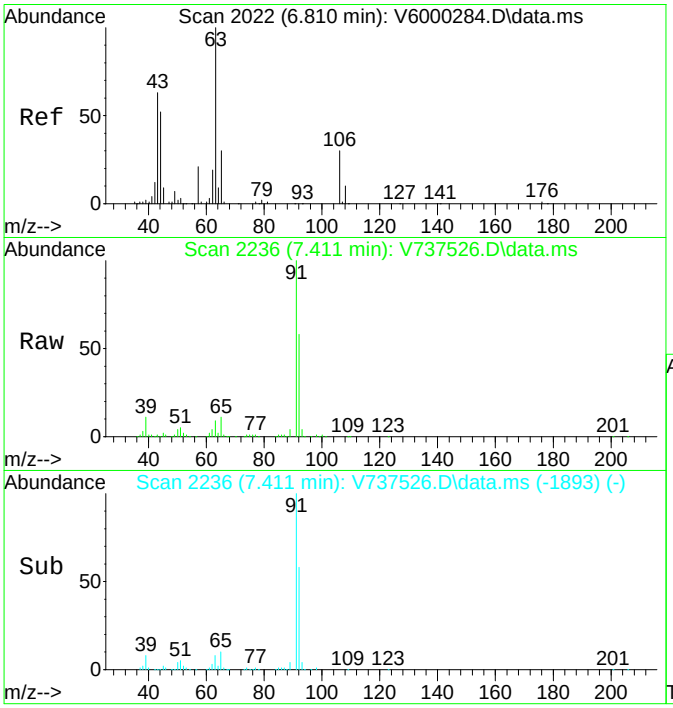


#49
2-Nitropropane
Concen: 6.94 ppb
RT: 6.949 min Scan# 2070
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 43 Resp: 15696

Ion	Ratio	Lower	Upper
43	100		
41	97.6	29.7	44.5#

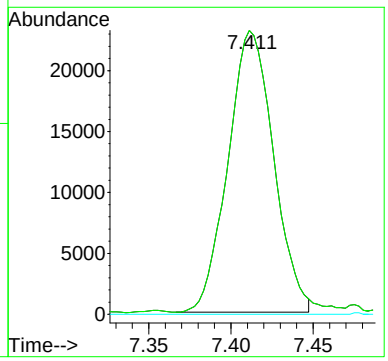


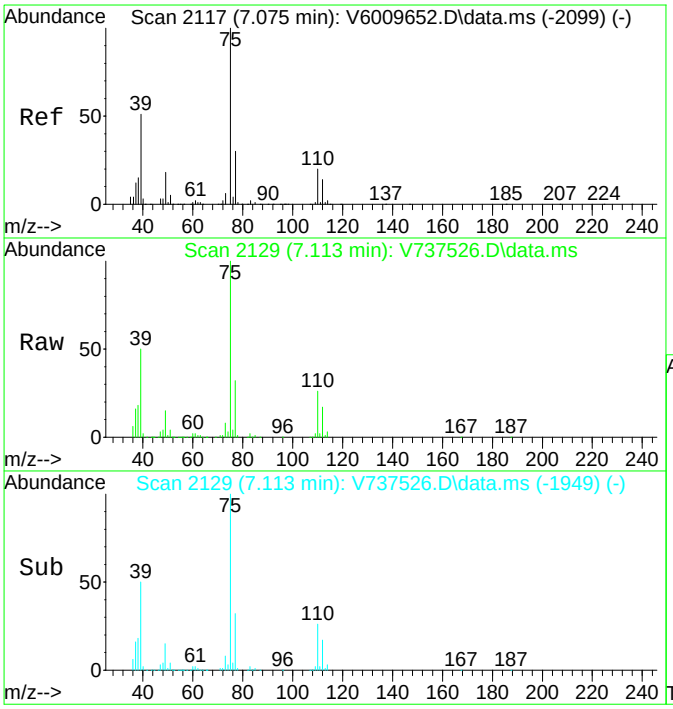


#50
2-Chloroethyl vinyl ether
Concen: 22.34 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.453 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 63 Resp: 44622

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
106	0.0	12.0	36.1#

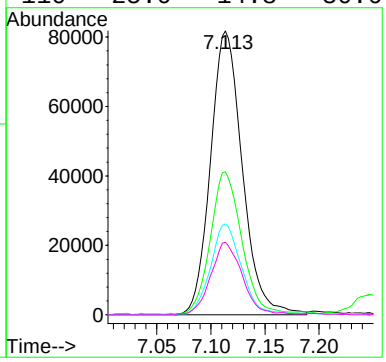


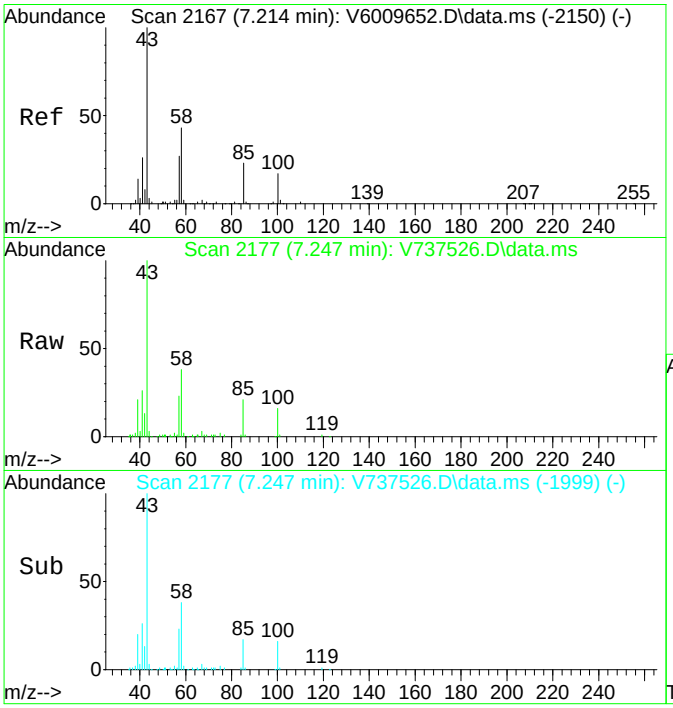


#51
cis-1,3-Dichloropropene
Concen: 11.93 ppb
RT: 7.113 min Scan# 2129
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 75 Resp: 167541

Ion	Ratio	Lower	Upper
75	100		
39	49.1	41.8	86.8
77	30.7	20.1	41.7
110	25.0	14.8	30.6

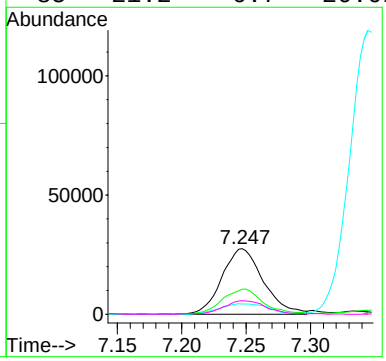


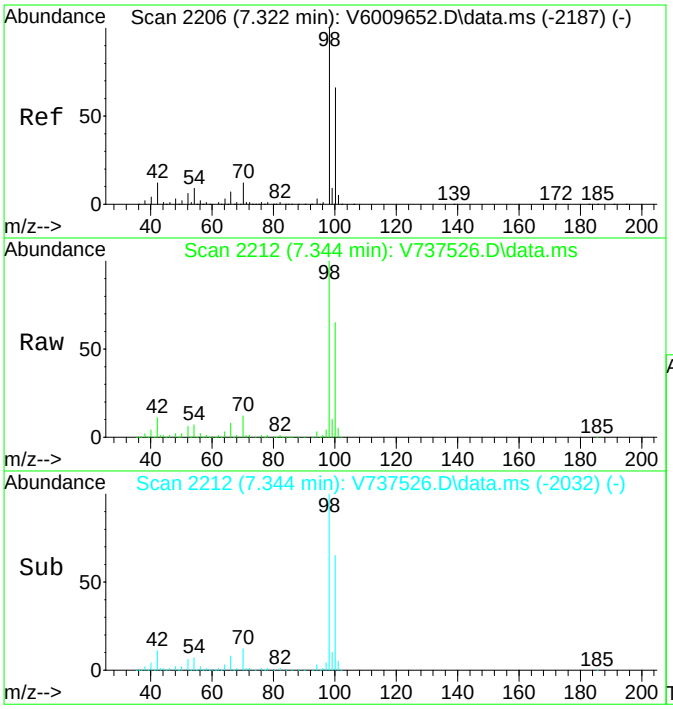


#52
4-Methyl-2-Pentanone
Concen: 12.13 ppb
RT: 7.247 min Scan# 2177
Delta R.T. -0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 43 Resp: 61640

Ion	Ratio	Lower	Upper
43	100		
58	38.2	23.8	49.4
100	18.8	5.8	17.3#
85	21.2	6.7	20.0#

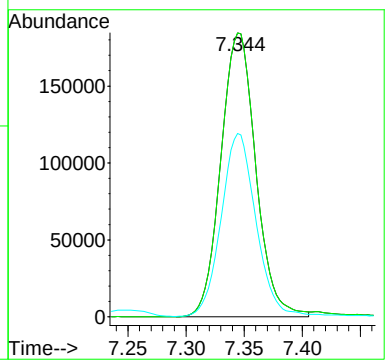


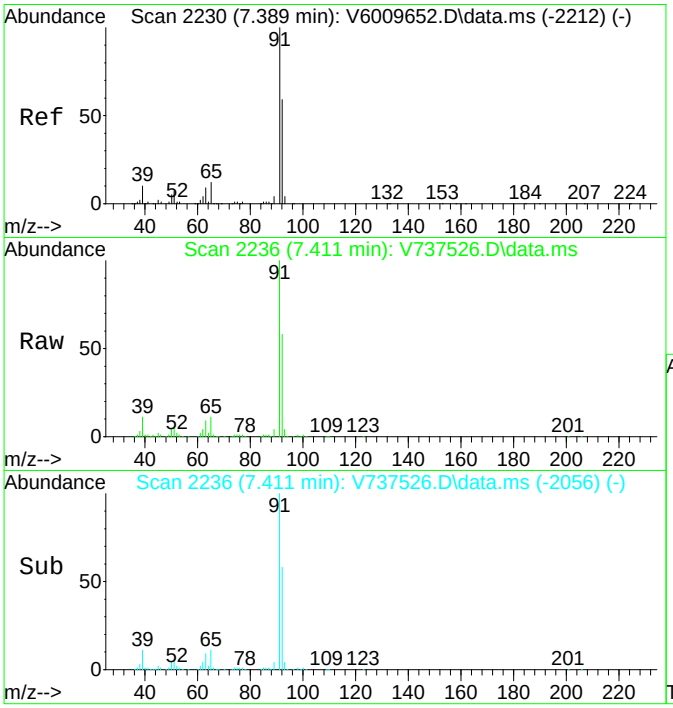


#53
Toluene-d8 (SURR)
Concen: 9.92 ppb
RT: 7.344 min Scan# 2212
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 98 Resp: 386523

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.5	43.4	90.2

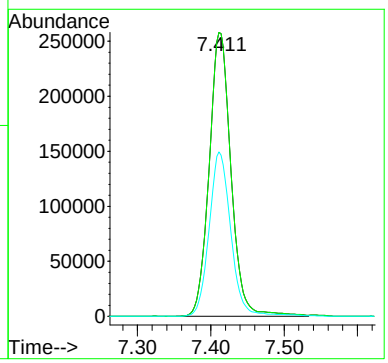


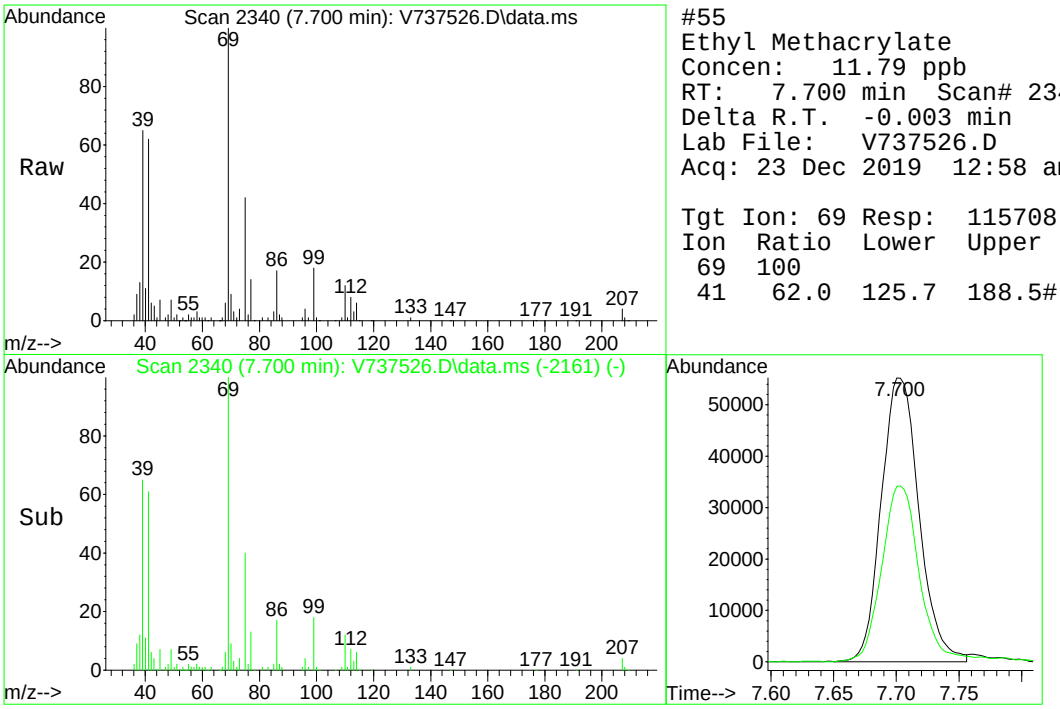


#54
Toluene
Concen: 11.98 ppb
RT: 7.411 min Scan# 2236
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 535132

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	57.0	38.4	79.7

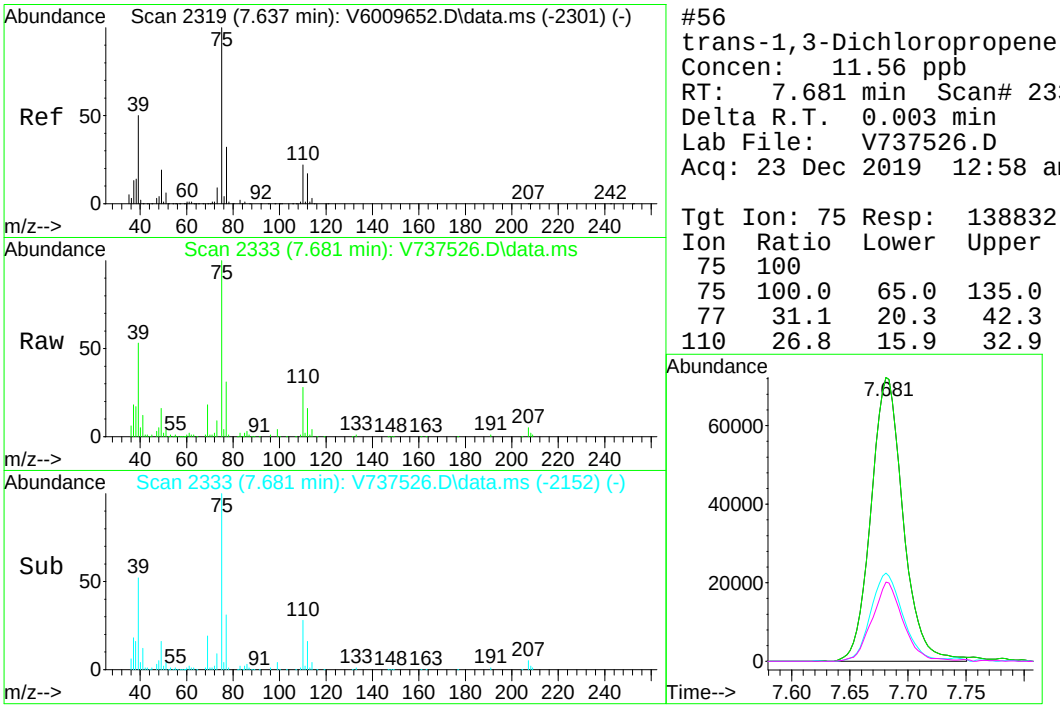




#55
Ethyl Methacrylate
Concen: 11.79 ppb
RT: 7.700 min Scan# 2340
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 69 Resp: 115708

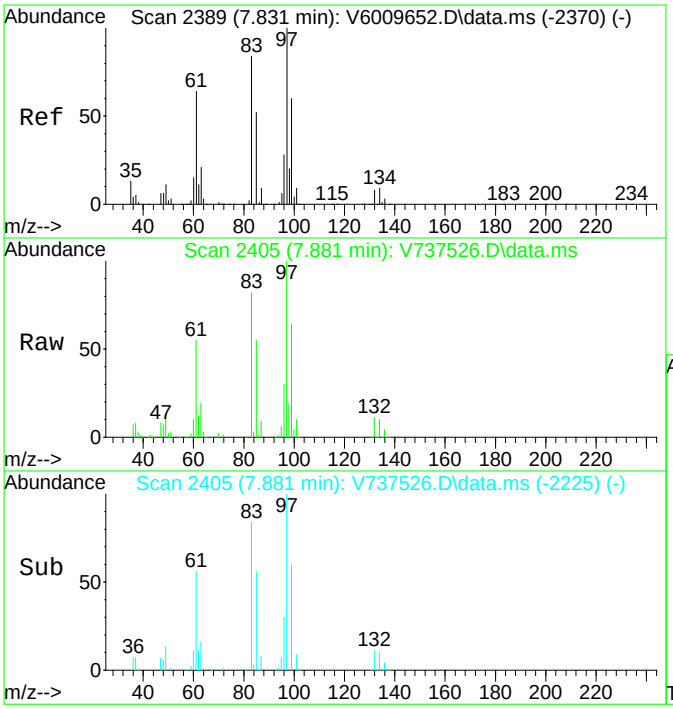
Ion	Ratio	Lower	Upper
69	100		
41	62.0	125.7	188.5#



#56
trans-1,3-Dichloropropene
Concen: 11.56 ppb
RT: 7.681 min Scan# 2333
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 75 Resp: 138832

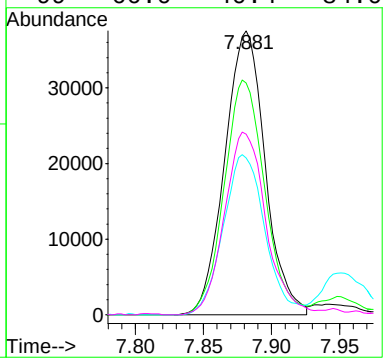
Ion	Ratio	Lower	Upper
75	100		
75	100.0	65.0	135.0
77	31.1	20.3	42.3
110	26.8	15.9	32.9

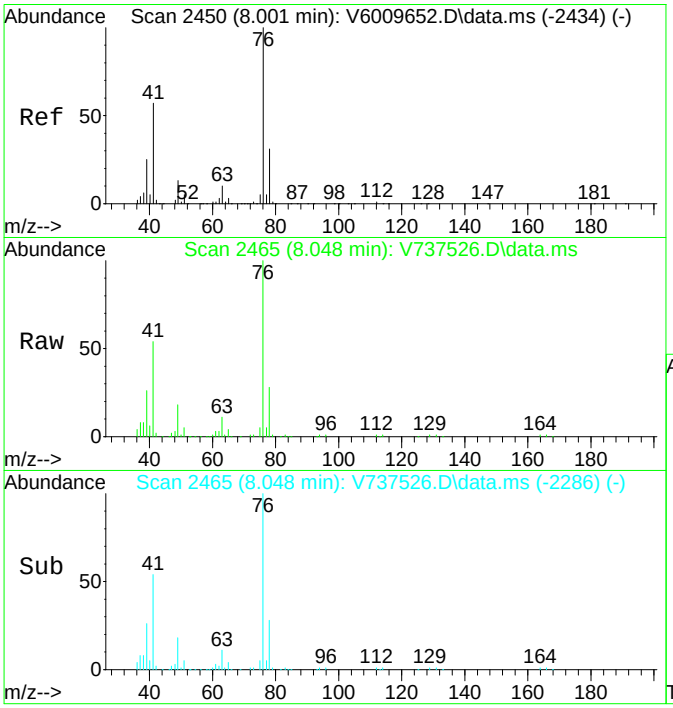


#57
1,1,2-Trichloroethane
Concen: 11.27 ppb
RT: 7.881 min Scan# 2405
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 97 Resp: 77509

Ion	Ratio	Lower	Upper
97	100		
83	83.0	54.1	112.5
61	57.9	44.3	91.9
99	66.0	40.4	84.0

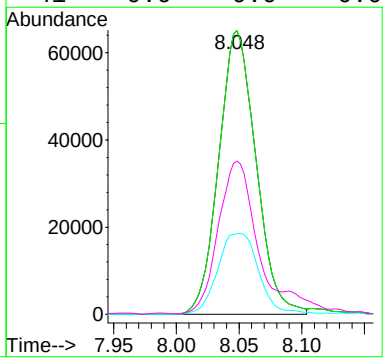


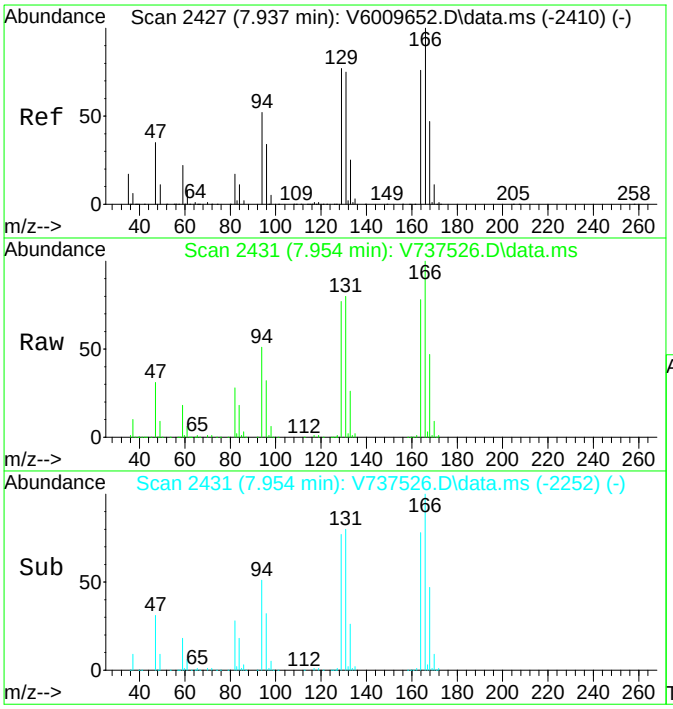


#58
1,3-Dichloropropane
Concen: 11.60 ppb
RT: 8.048 min Scan# 2465
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 76 Resp: 134390

Ion	Ratio	Lower	Upper
76	100		
76	100.0	80.0	120.0
78	31.6	16.4	49.2
41	0.0	0.0	0.0

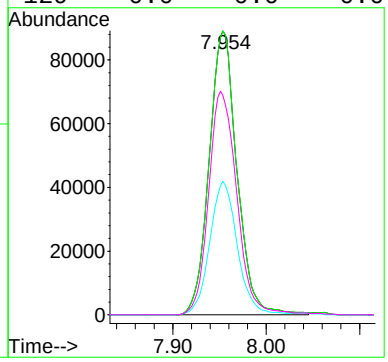


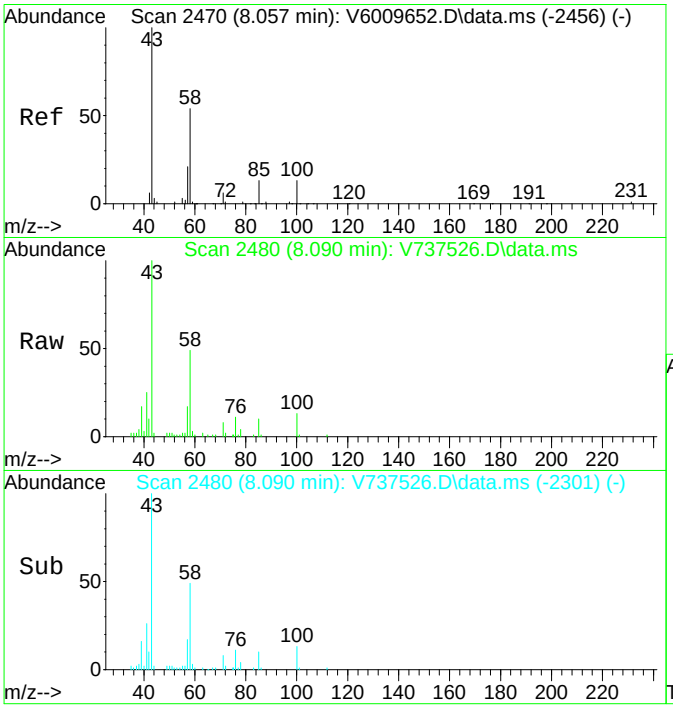


#59
Tetrachloroethylene
Concen: 13.99 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:166 Resp: 184493

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	46.6	0.0	0.0#
129	0.0	0.0	0.0

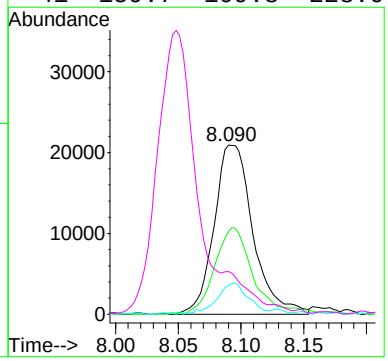


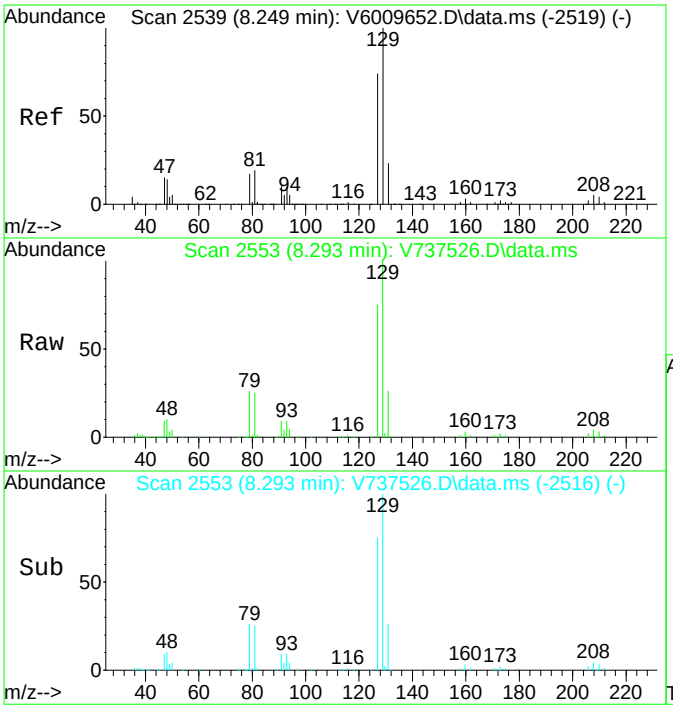


#60
2-Hexanone
Concen: 12.40 ppb
RT: 8.090 min Scan# 2480
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 43 Resp: 45119

Ion	Ratio	Lower	Upper
43	100		
58	50.5	33.0	68.6
57	15.1	11.1	23.1
41	159.7	109.8	228.0

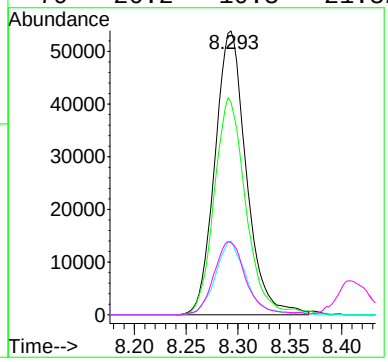


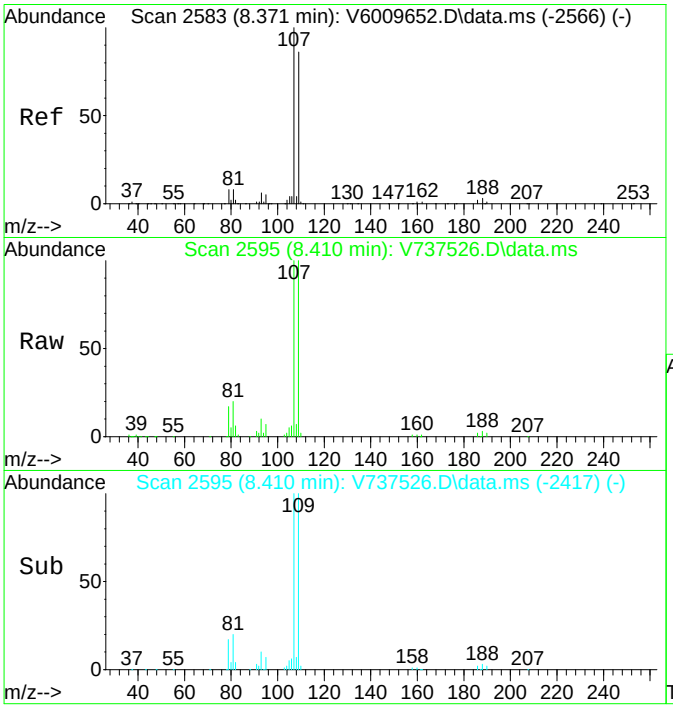


#61
Dibromochloromethane
Concen: 12.81 ppb
RT: 8.293 min Scan# 2553
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:129 Resp: 113805

Ion	Ratio	Lower	Upper
129	100		
127	75.9	49.8	103.4
131	25.4	16.1	33.5
79	26.2	10.3	21.3#

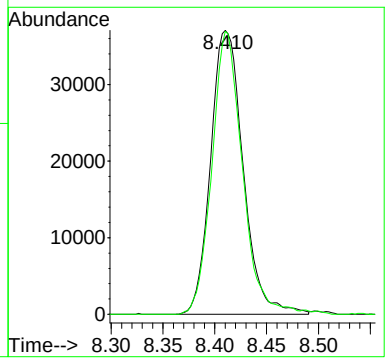


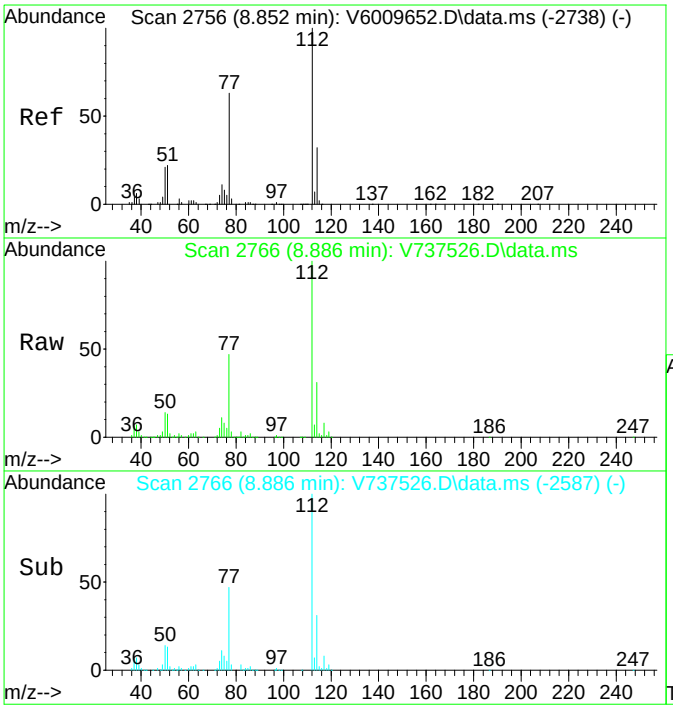


#62
1,2-Dibromoethane
Concen: 11.59 ppb
RT: 8.410 min Scan# 2595
Delta R.T. -0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:107 Resp: 81142

Ion	Ratio	Lower	Upper
107	100		
109	93.1	62.0	128.8

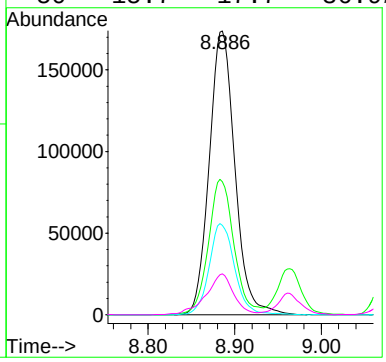


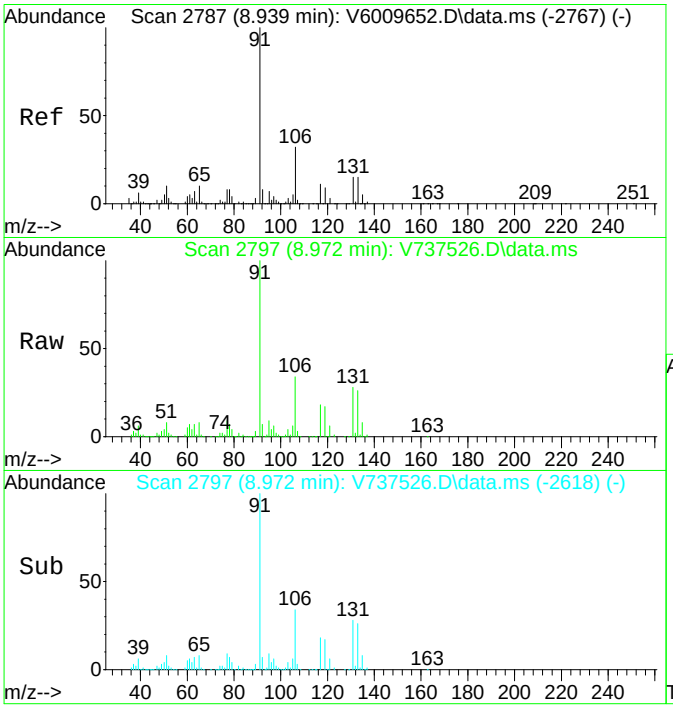


#63
Chlorobenzene
Concen: 11.29 ppb
RT: 8.886 min Scan# 2766
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:112 Resp: 359125

Ion	Ratio	Lower	Upper
112	100		
77	47.7	38.9	80.7
114	32.0	20.5	42.7
50	15.7	17.7	36.9#

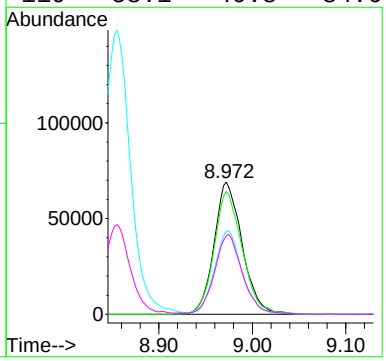


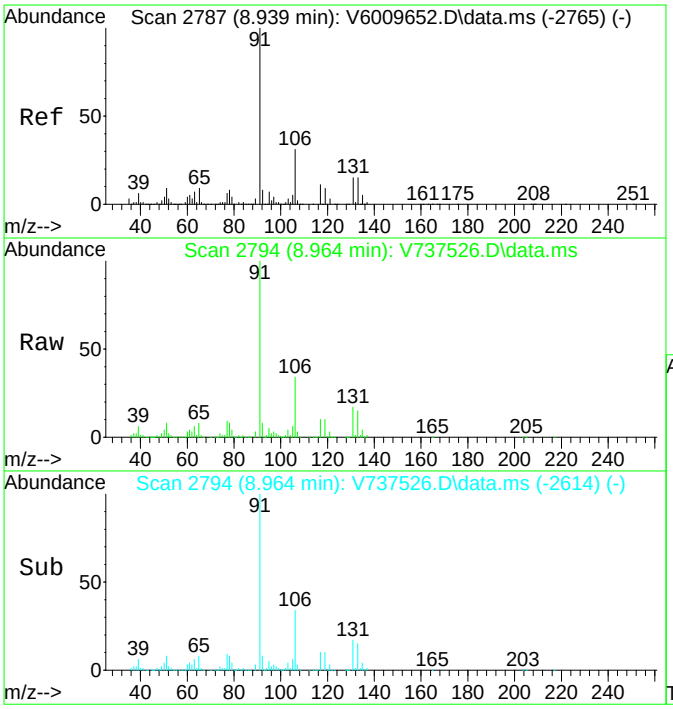


#64
1,1,1,2-tetrachloroethane
Concen: 12.15 ppb
RT: 8.972 min Scan# 2797
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:131 Resp: 144605

Ion	Ratio	Lower	Upper
131	100		
133	93.3	61.5	127.7
117	62.7	42.6	88.6
119	58.1	40.8	84.6

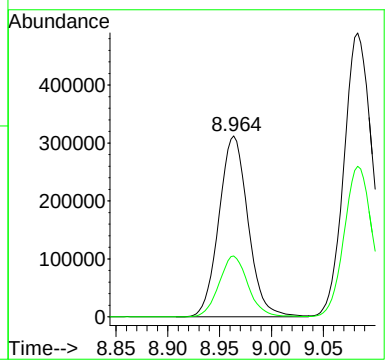


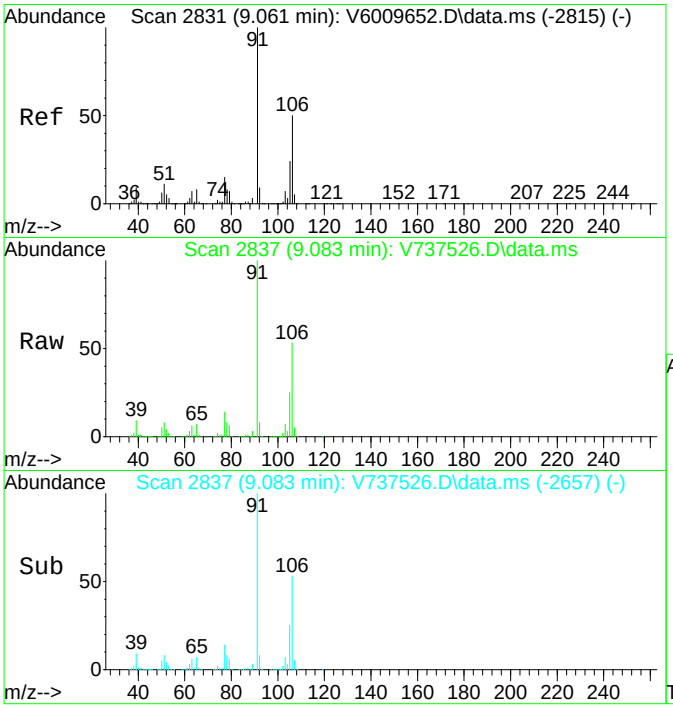


#65
Ethyl Benzene
Concen: 12.00 ppb
RT: 8.964 min Scan# 2794
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 612581

Ion	Ratio	Lower	Upper
91	100		
106	33.6	20.0	41.6

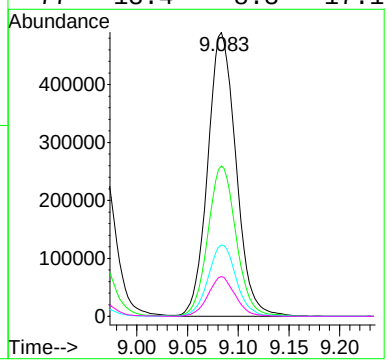


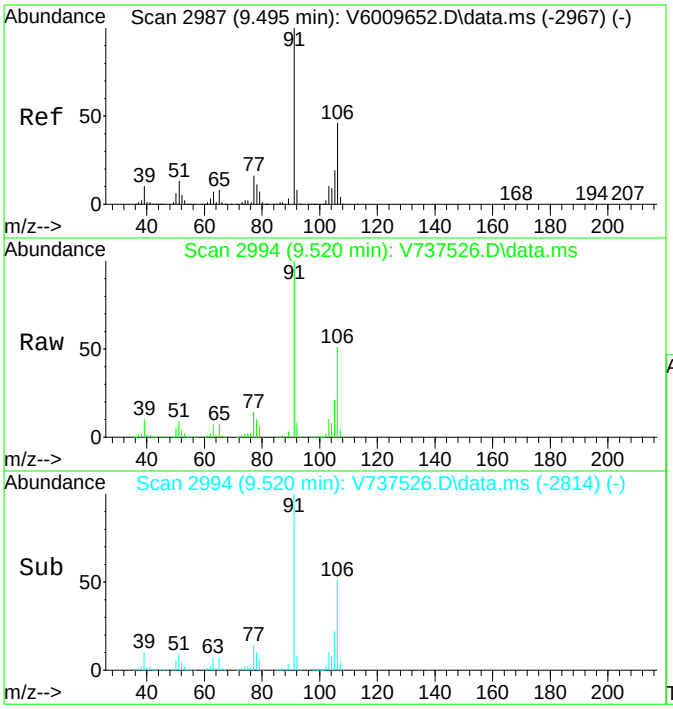


#66
p- & m-Xylenes
Concen: 23.56 ppb
RT: 9.083 min Scan# 2837
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 949367

Ion	Ratio	Lower	Upper
91	100		
106	53.1	31.3	65.1
105	25.1	14.2	29.4
77	13.4	8.3	17.1

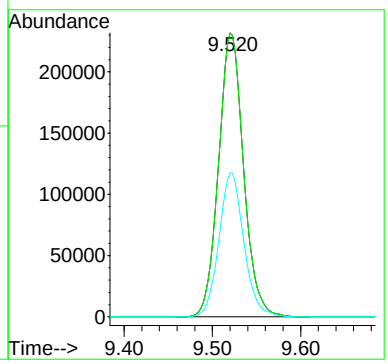


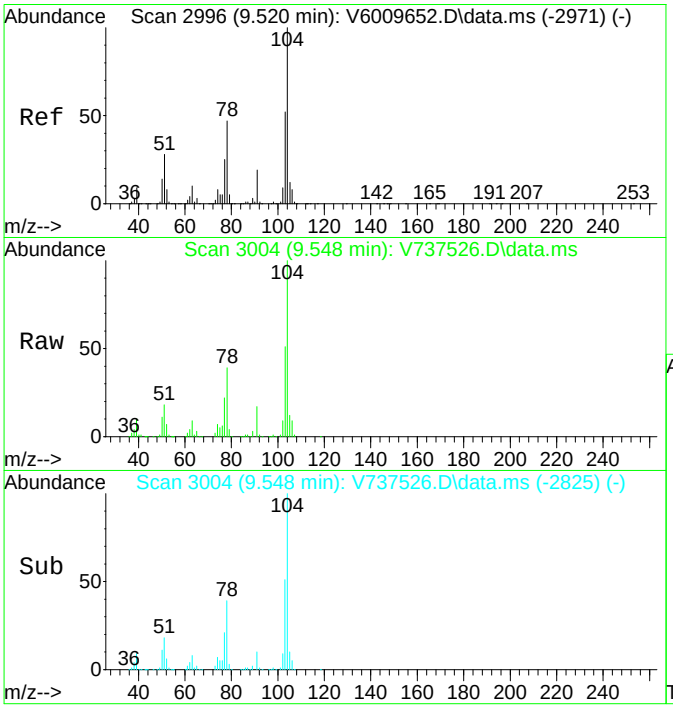


#67
o-Xylene
Concen: 11.97 ppb
RT: 9.520 min Scan# 2994
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 456559

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	50.6	22.7	68.1

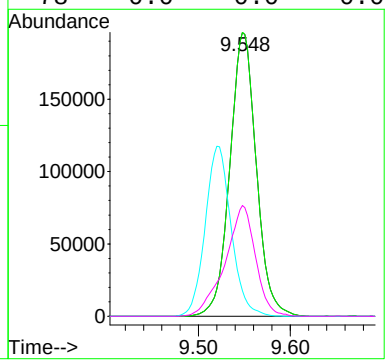


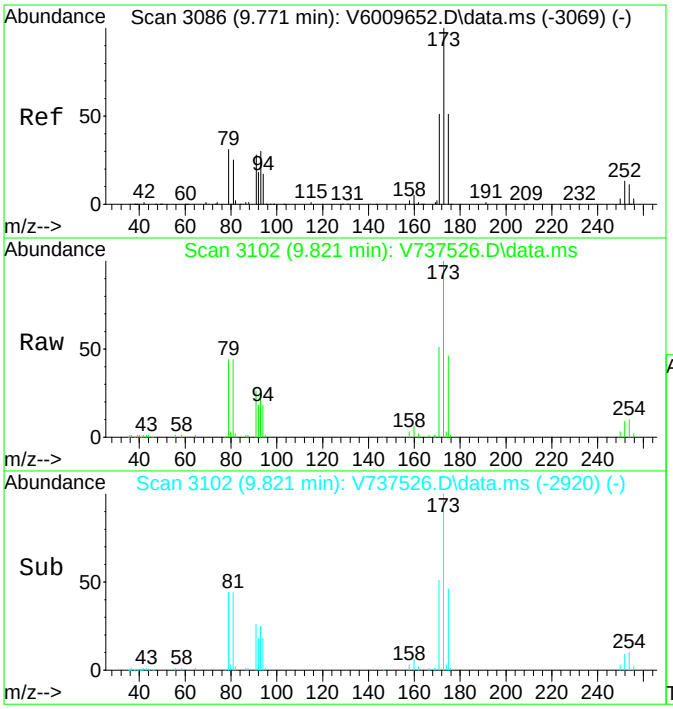


#68
Styrene
Concen: 12.16 ppb
RT: 9.548 min Scan# 3004
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:104 Resp: 394175

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
106	0.0	0.0	0.0
78	0.0	0.0	0.0

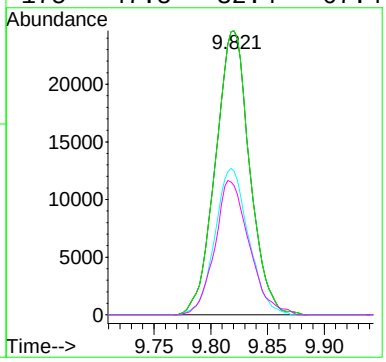


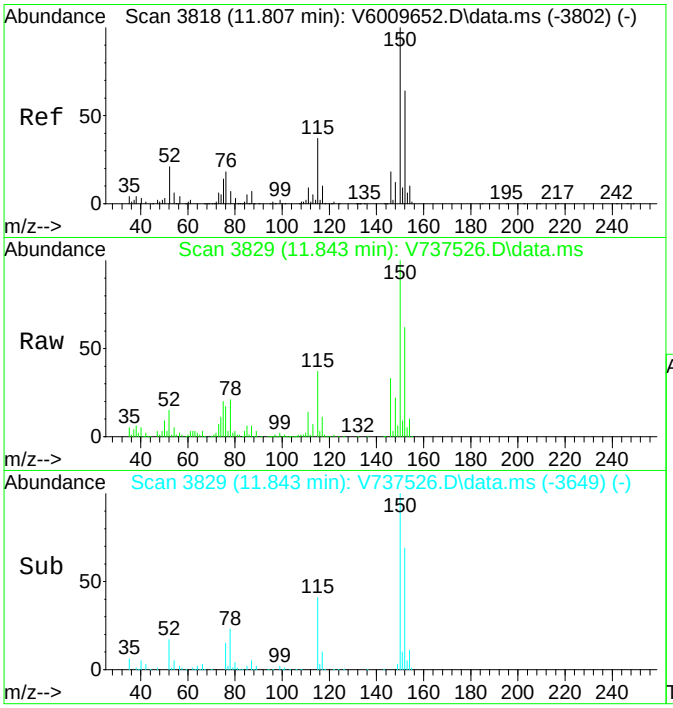


#69
Bromoform
Concen: 10.92 ppb
RT: 9.821 min Scan# 3102
Delta R.T. 0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:173 Resp: 51634

Ion	Ratio	Lower	Upper
173	100		
173	100.0	80.0	120.0
171	50.8	0.0	0.0#
175	47.5	32.4	67.4

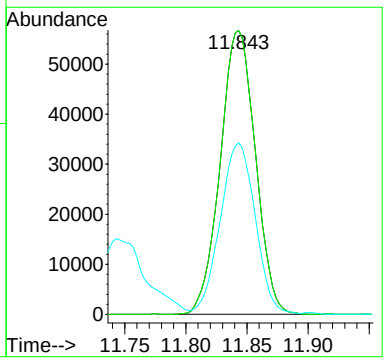


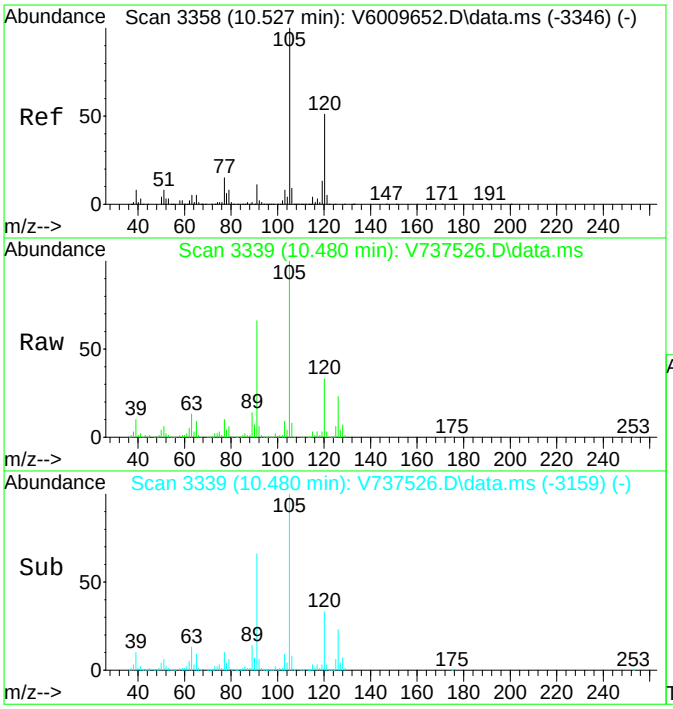


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:152 Resp: 113504

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	59.7	33.7	101.0

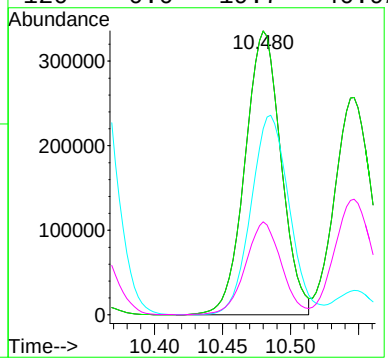


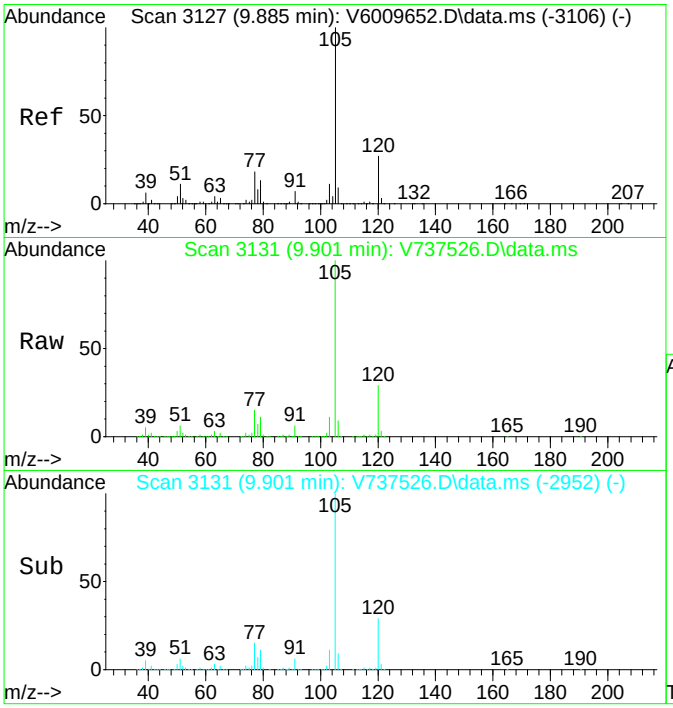


#71
p-Ethyltoluene
Concen: 12.28 ppb
RT: 10.480 min Scan# 3339
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:105 Resp: 620331

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
91	0.0	0.0	0.0
120	0.0	19.7	40.9#

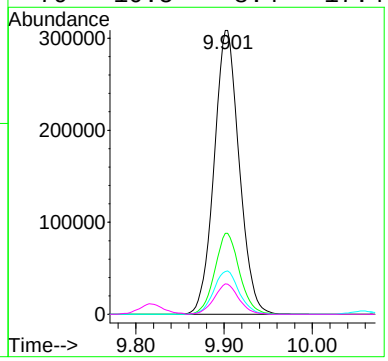


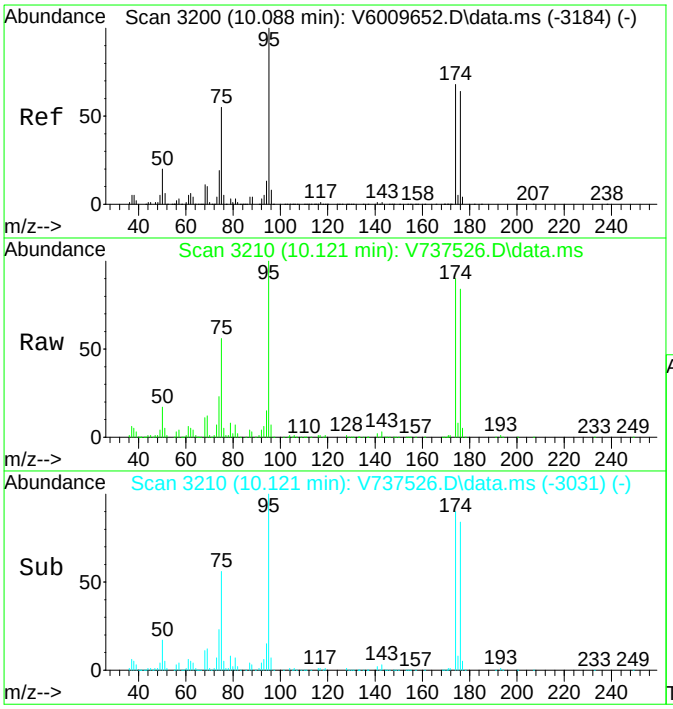


#72
Isopropylbenzene
Concen: 11.49 ppb
RT: 9.901 min Scan# 3131
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:105 Resp: 608640

Ion	Ratio	Lower	Upper
105	100		
120	28.1	17.6	36.6
77	15.5	10.1	20.9
79	10.5	8.4	17.4

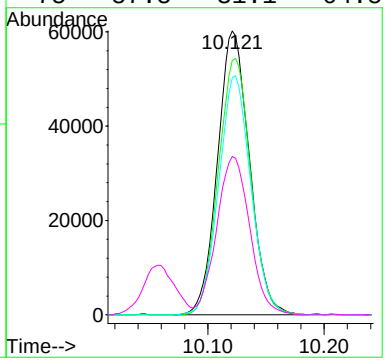


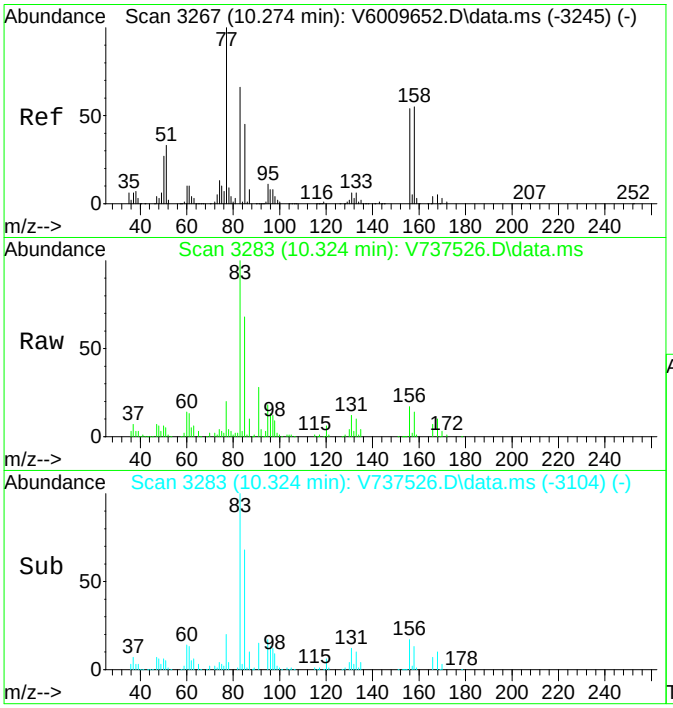


#73
p-Bromofluorobenzene (SURR)
Concen: 10.09 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 95 Resp: 115094

Ion	Ratio	Lower	Upper
95	100		
174	91.4	49.1	102.1
176	84.8	47.7	99.1
75	57.5	31.1	64.5

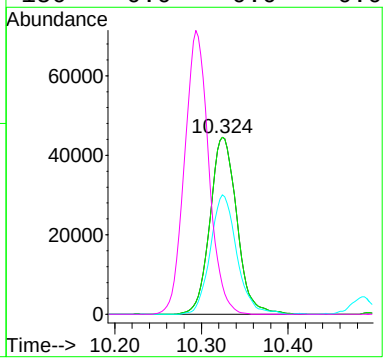


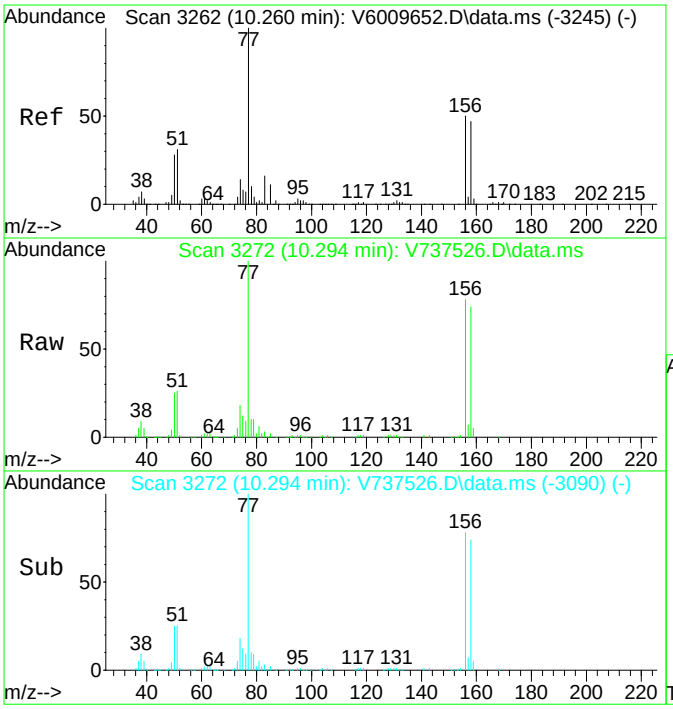


#74
1,1,2,2-Tetrachloroethane
Concen: 11.14 ppb
RT: 10.324 min Scan# 3283
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 83 Resp: 96513

Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
85	66.5	42.1	87.5
156	0.0	0.0	0.0

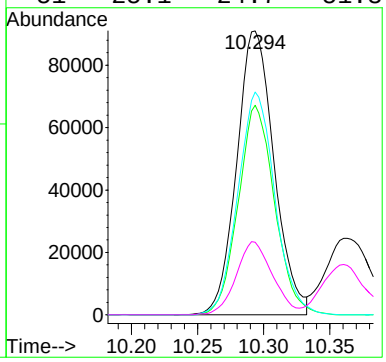


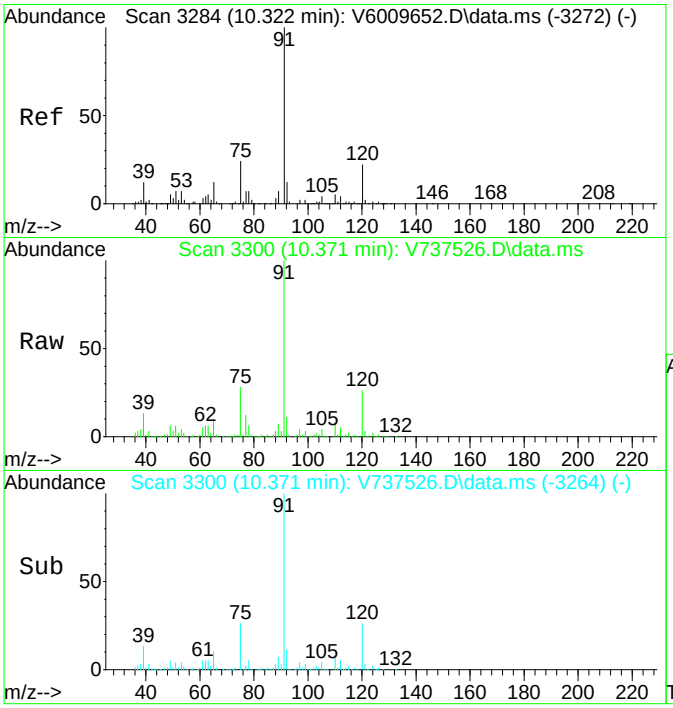


#75
Bromobenzene
Concen: 11.36 ppb
RT: 10.294 min Scan# 3272
Delta R.T. 0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 77 Resp: 179081

Ion	Ratio	Lower	Upper
77	100		
158	71.8	37.2	77.4
156	77.6	38.9	80.7
51	25.1	24.7	51.3

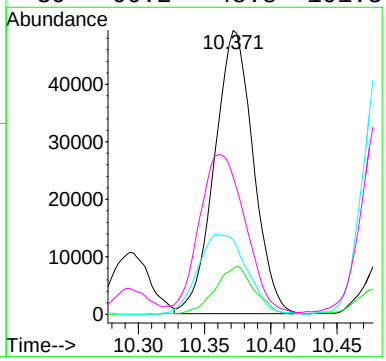


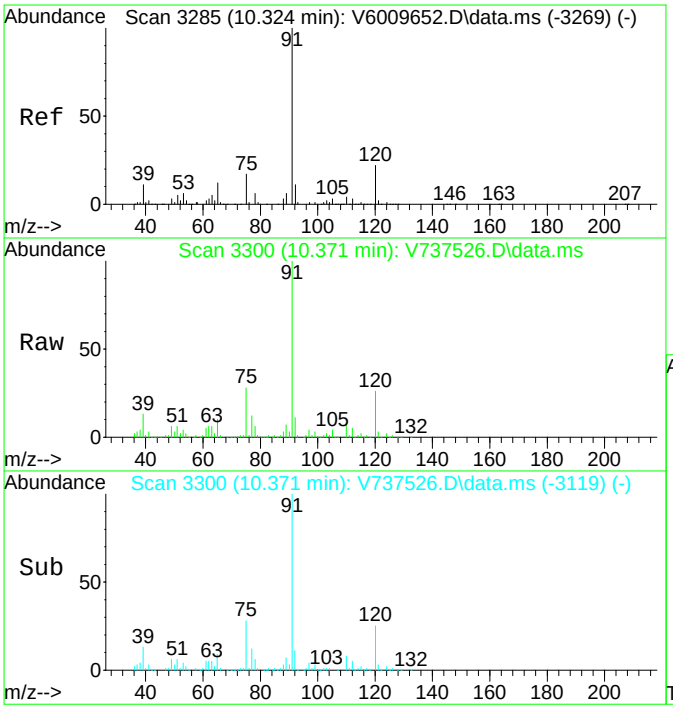


#76
trans-1,4-Dichloro-2-butene
Concen: 11.69 ppb
RT: 10.371 min Scan# 3300
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 75 Resp: 100403

Ion	Ratio	Lower	Upper
75	100		
53	17.1	21.8	45.4#
89	35.6	20.8	43.2
39	66.2	48.8	101.3

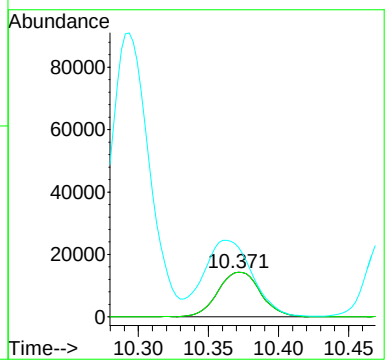


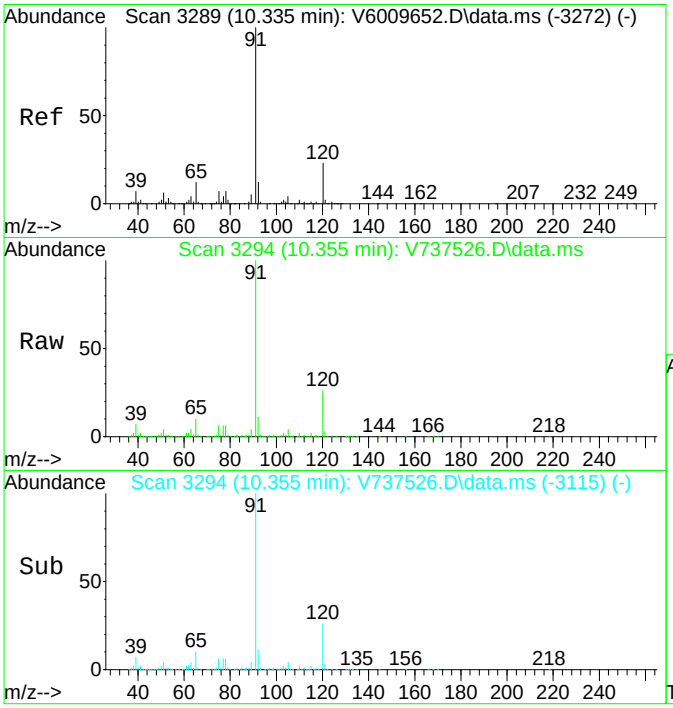


#77
1,2,3-Trichloropropane
Concen: 11.34 ppb
RT: 10.371 min Scan# 3300
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:110 Resp: 30214

Ion	Ratio	Lower	Upper
110	100		
110	100.0	80.0	120.0
77	193.0	113.1	339.4

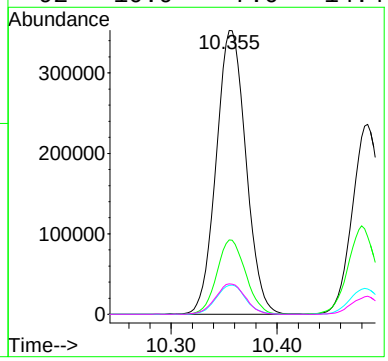


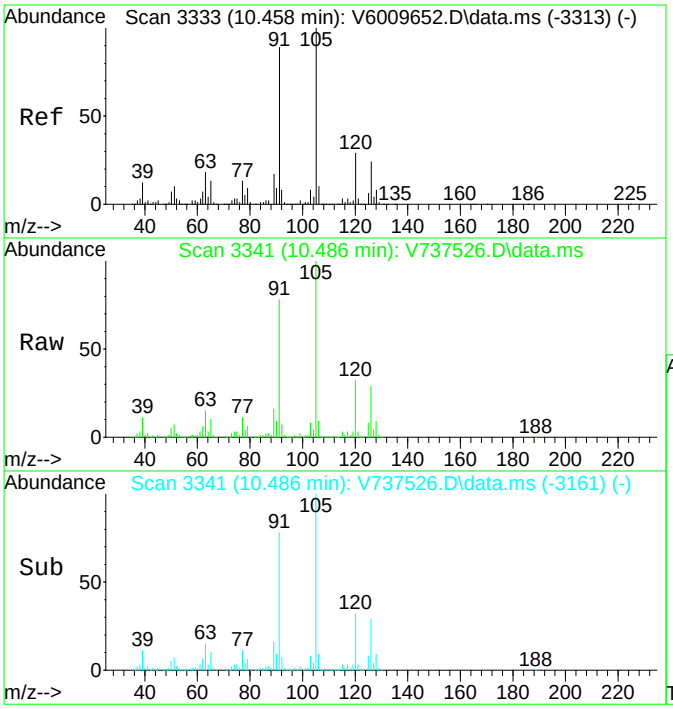


#78
n-Propylbenzene
Concen: 11.40 ppb
RT: 10.355 min Scan# 3294
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 684873

Ion	Ratio	Lower	Upper
91	100		
120	25.6	14.8	30.8
65	10.3	7.0	14.4
92	10.9	7.0	14.4

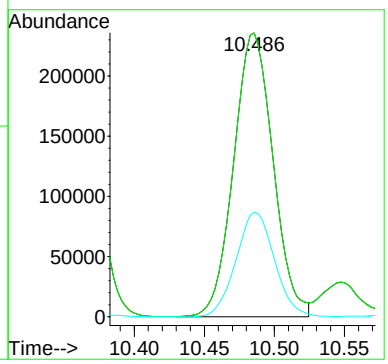


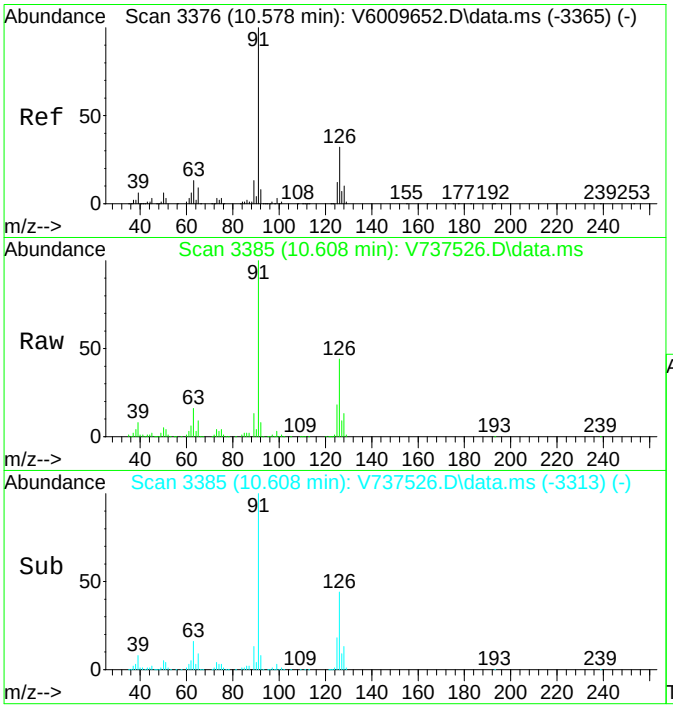


#79
2-Chlorotoluene
Concen: 11.63 ppb
RT: 10.486 min Scan# 3341
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 459739

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
126	36.1	18.1	37.7

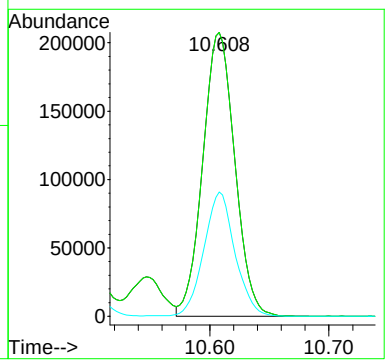


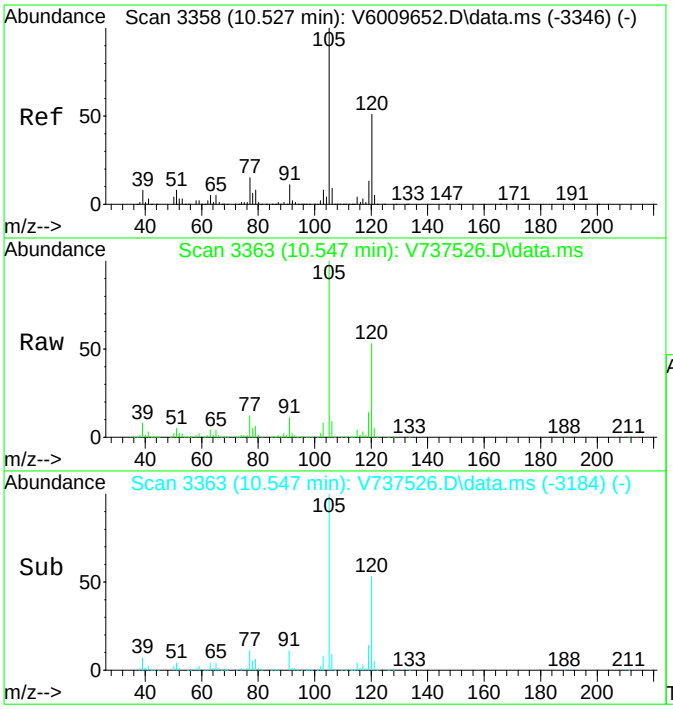


#80
4-Chlorotoluene
Concen: 11.42 ppb
RT: 10.608 min Scan# 3385
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 388334

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
126	42.5	16.0	47.9

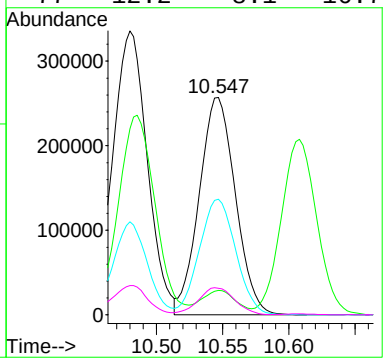


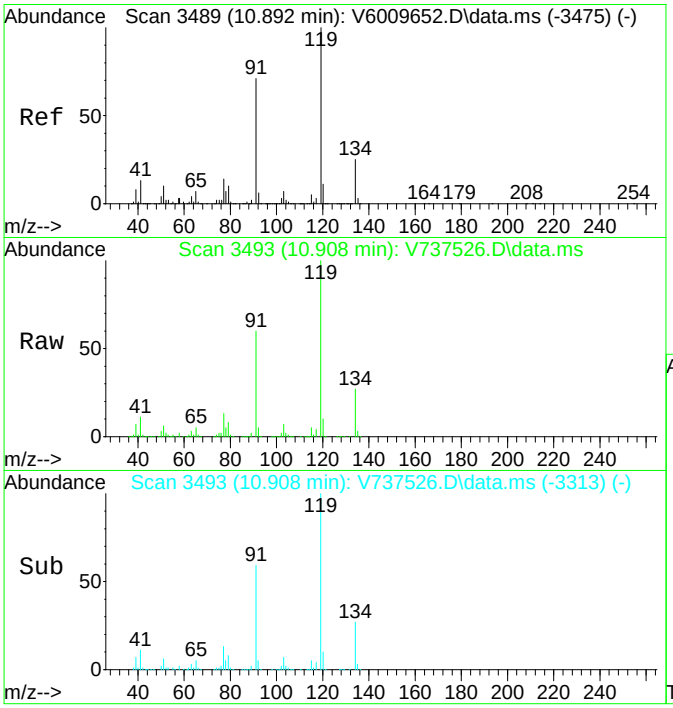


#81
1,3,5-Trimethylbenzene
Concen: 11.79 ppb
RT: 10.547 min Scan# 3363
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:105 Resp: 488767

Ion	Ratio	Lower	Upper
105	100		
91	10.9	6.8	14.2
120	53.7	32.6	67.6
77	12.2	8.1	16.7

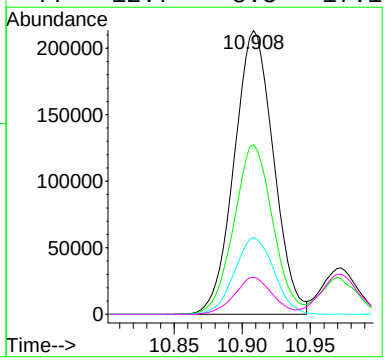


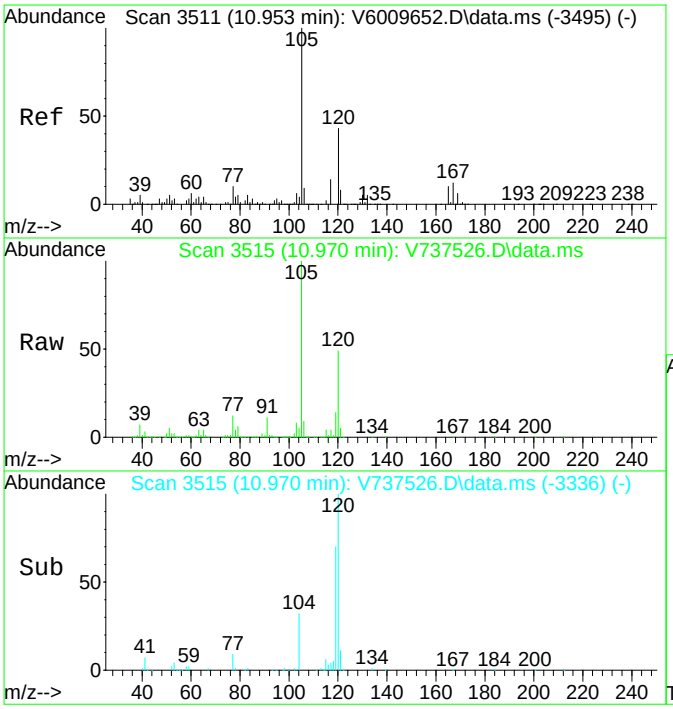


#82
tert-Butylbenzene
Concen: 11.60 ppb
RT: 10.908 min Scan# 3493
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:119 Resp: 428187

Ion	Ratio	Lower	Upper
119	100		
91	59.1	44.3	91.9
134	27.2	15.9	33.1
77	12.7	8.3	17.1

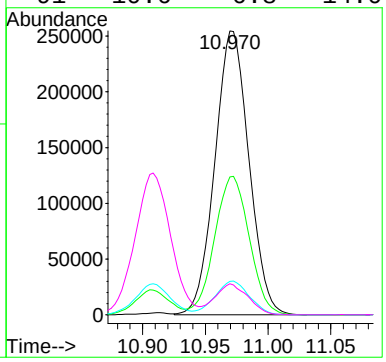


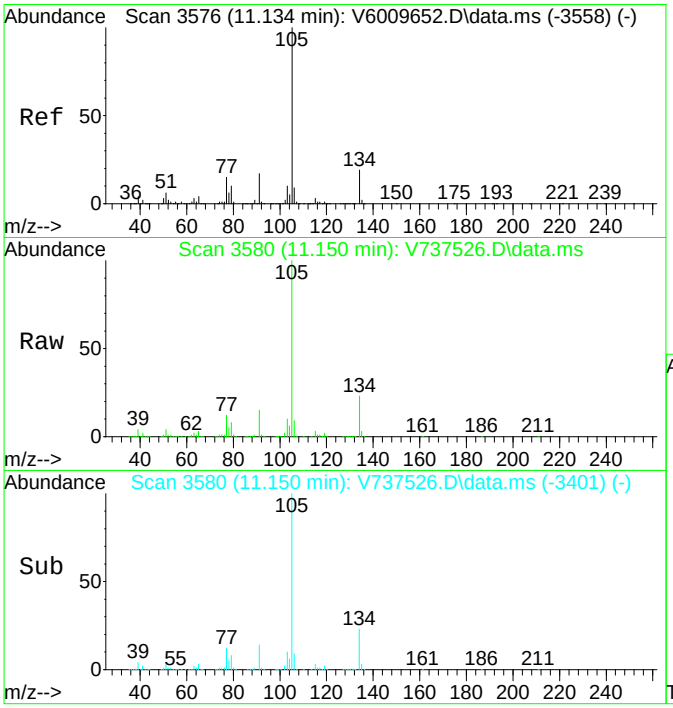


#83
1,2,4-Trimethylbenzene
Concen: 11.36 ppb
RT: 10.970 min Scan# 3515
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:105 Resp: 479385

Ion	Ratio	Lower	Upper
105	100		
120	49.9	30.7	63.7
77	12.1	8.0	16.6
91	10.6	6.8	14.0

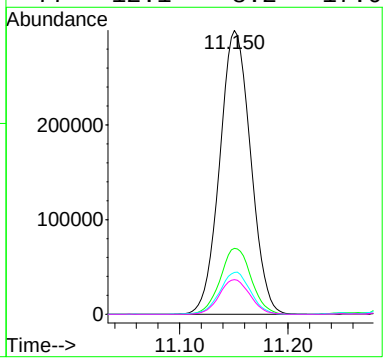


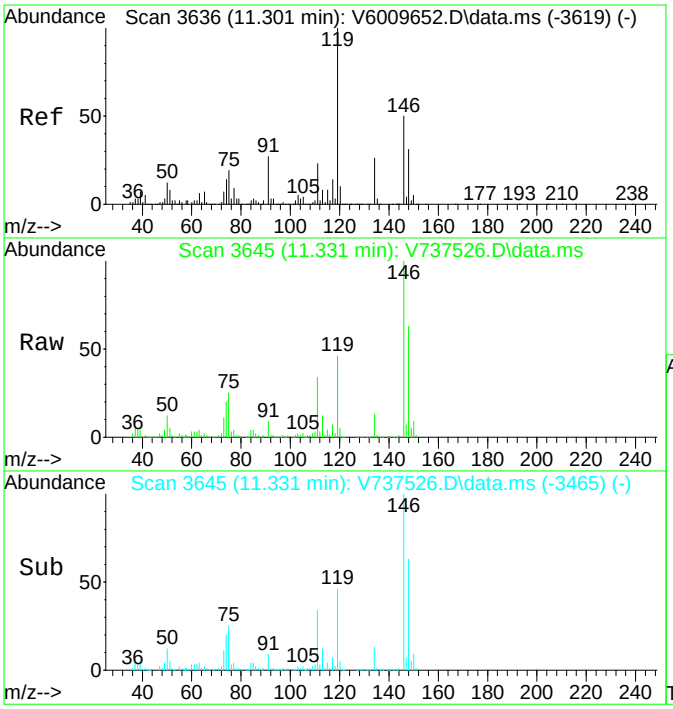


#84
sec-Butylbenzene
Concen: 12.83 ppb
RT: 11.150 min Scan# 3580
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:105 Resp: 595240

Ion	Ratio	Lower	Upper
105	100		
134	23.3	13.5	28.1
91	14.9	10.7	22.1
77	12.1	8.2	17.0

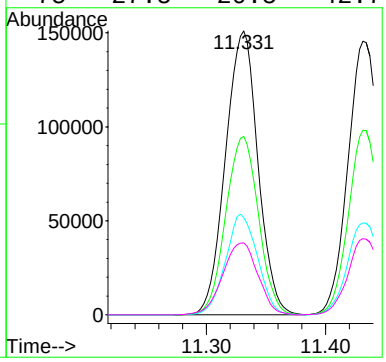


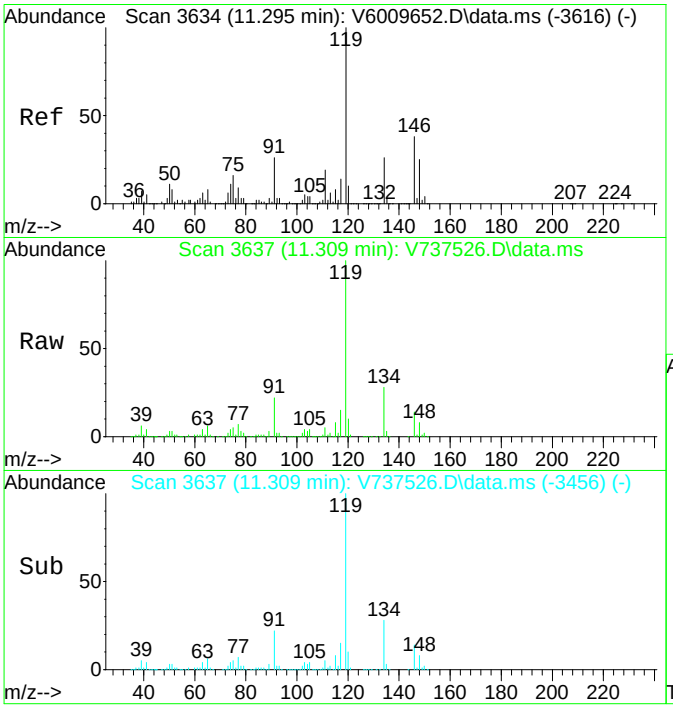


#85
1,3-Dichlorobenzene
Concen: 11.11 ppb
RT: 11.331 min Scan# 3645
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:146 Resp: 286420

Ion	Ratio	Lower	Upper
146	100		
148	63.3	41.7	86.5
111	35.0	27.2	56.6
75	27.5	20.5	42.7

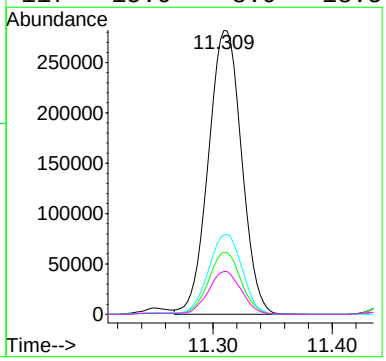


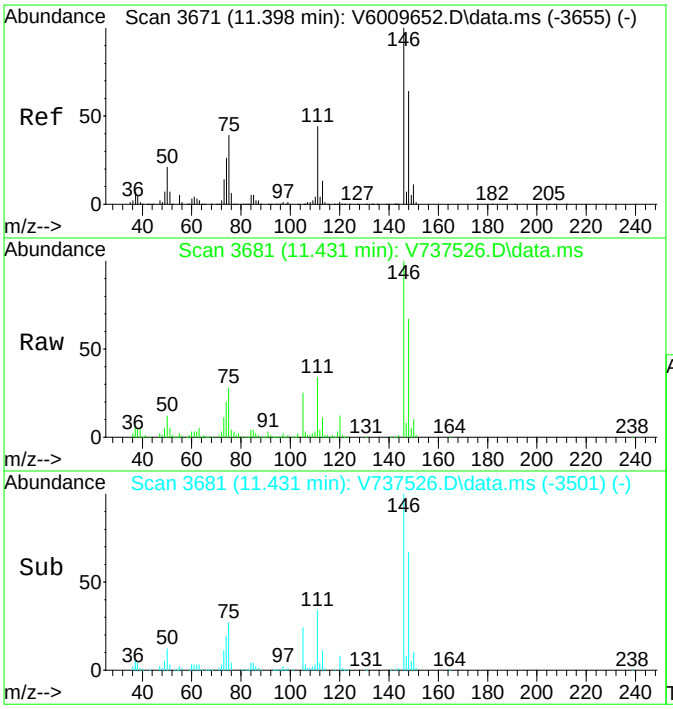


#86
p-Isopropyltoluene
Concen: 11.76 ppb
RT: 11.309 min Scan# 3637
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:119 Resp: 546735

Ion	Ratio	Lower	Upper
119	100		
91	21.4	15.8	32.8
134	28.4	17.6	36.6
117	15.0	8.9	18.5

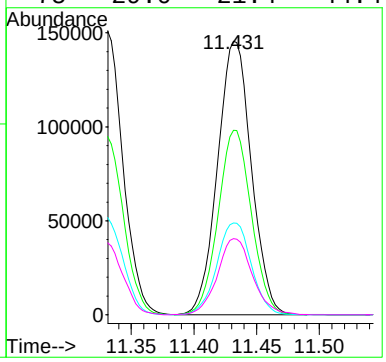


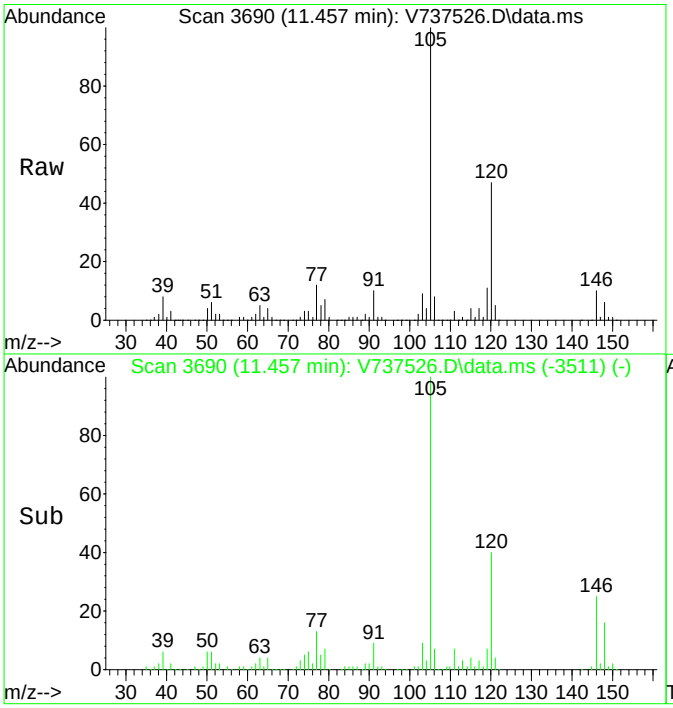


#87
1,4-Dichlorobenzene
Concen: 10.71 ppb
RT: 11.431 min Scan# 3681
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:146 Resp: 273198

Ion	Ratio	Lower	Upper
146	100		
148	66.4	41.0	85.2
111	34.2	26.3	54.7
75	29.0	21.4	44.4

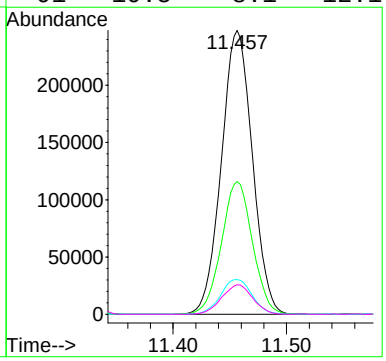


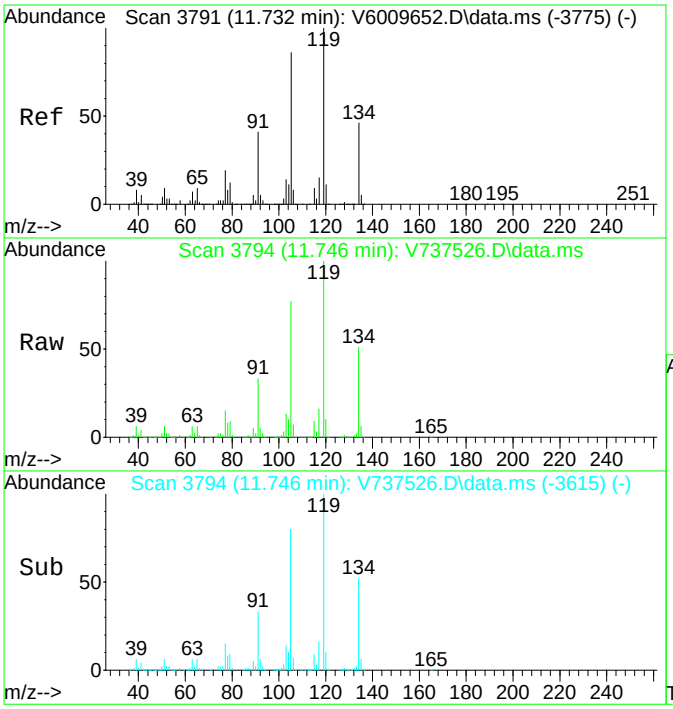


#88
1,2,3-Trimethylbenzene
Concen: 11.95 ppb
RT: 11.457 min Scan# 3690
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:105 Resp: 471701

Ion	Ratio	Lower	Upper
105	100		
120	46.8	34.3	51.5
77	12.6	9.8	14.8
91	10.5	8.1	12.1

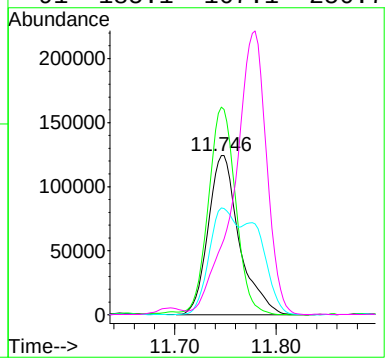


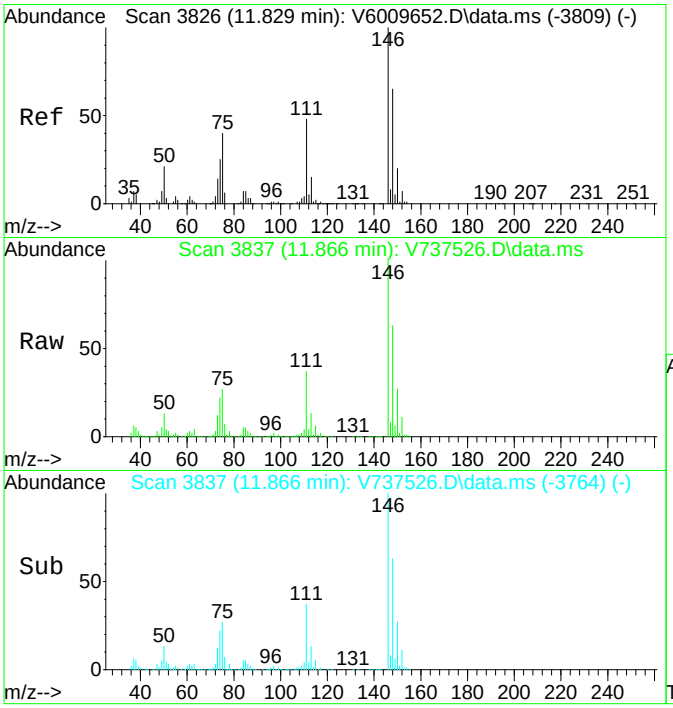


#89
p-Diethylbenzene
Concen: 13.52 ppb
RT: 11.746 min Scan# 3794
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:105 Resp: 265237

Ion	Ratio	Lower	Upper
105	100		
119	114.8	83.7	125.5
134	58.2	35.5	73.7
91	185.1	167.1	250.7

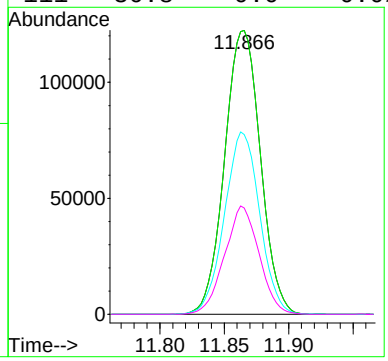


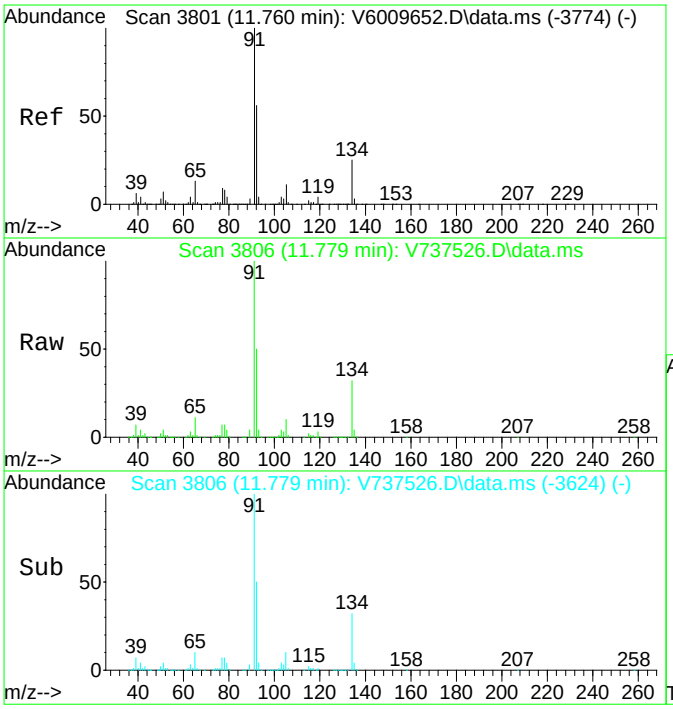


#90
1,2-Dichlorobenzene
Concen: 11.08 ppb
RT: 11.866 min Scan# 3837
Delta R.T. 0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:146 Resp: 236837

Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	63.2	41.6	86.4
111	36.8	0.0	0.0#

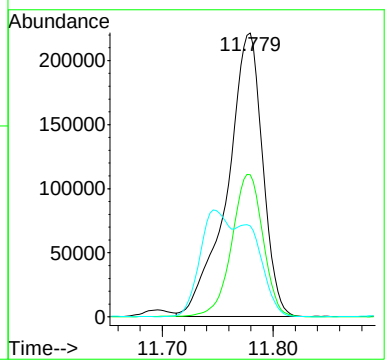


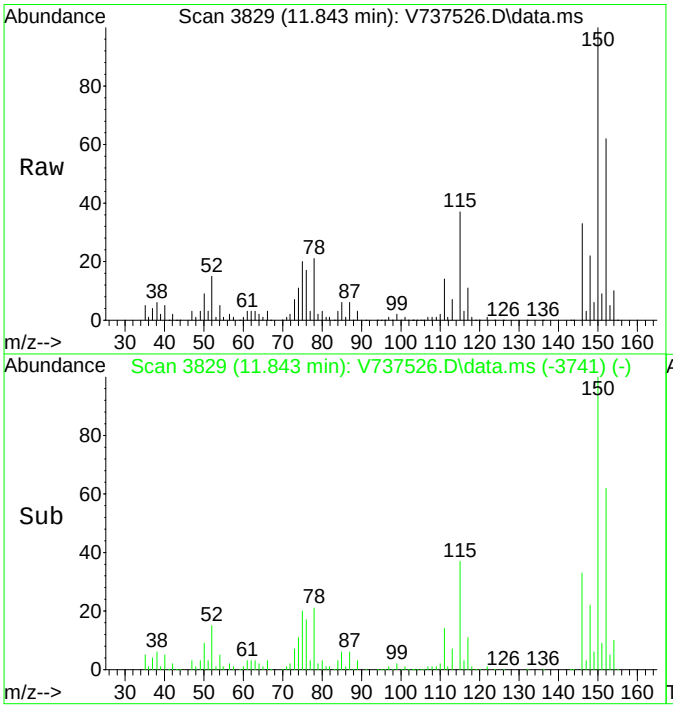


#91
n-Butylbenzene
Concen: 15.57 ppb
RT: 11.779 min Scan# 3806
Delta R.T. 0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 91 Resp: 490910

Ion	Ratio	Lower	Upper
91	100		
92	44.4	30.9	64.1
134	31.4	17.0	35.4

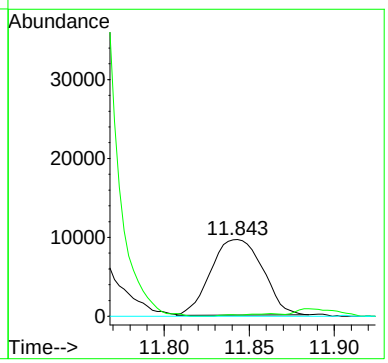


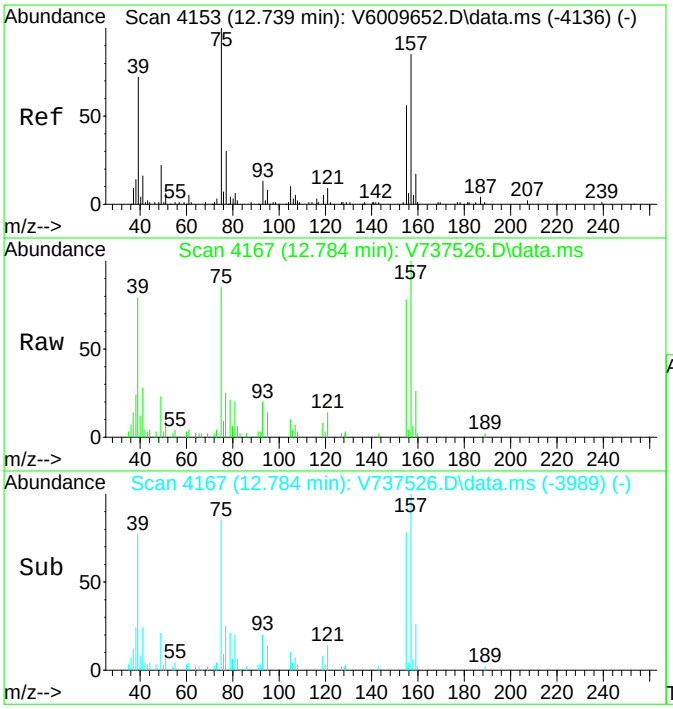


#92
Hexachloroethane
Concen: 3.07 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.256 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:117 Resp: 20335

Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.3	117.5#
201	0.2	66.1	99.1#

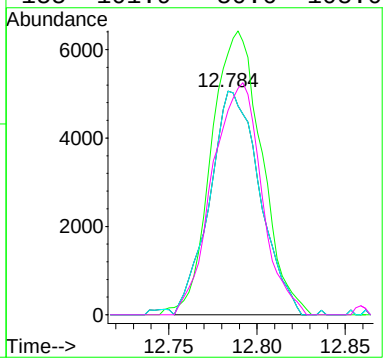


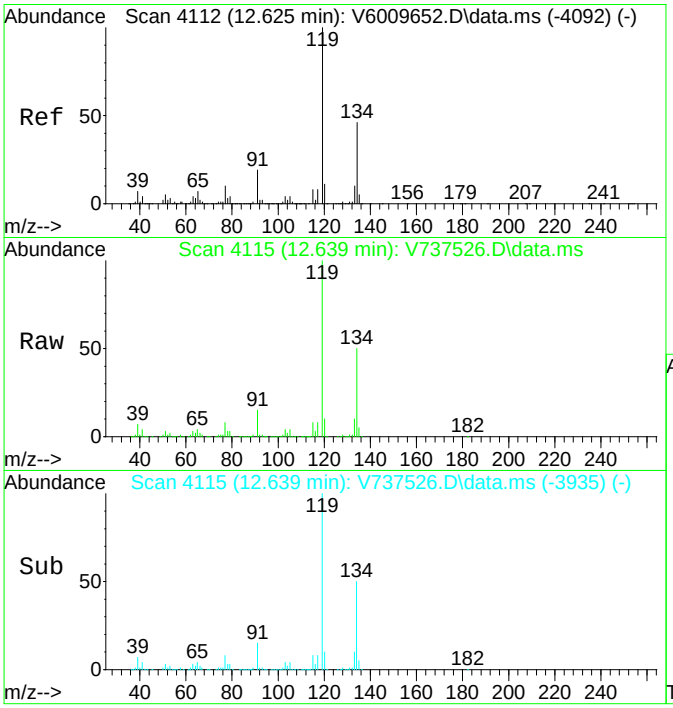


#93
1,2-Dibromo-3-chloropropane
Concen: 10.17 ppb
RT: 12.784 min Scan# 4167
Delta R.T. -0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 75 Resp: 9993

Ion	Ratio	Lower	Upper
75	100		
157	127.7	80.2	120.2#
75	100.0	65.0	135.0
155	101.9	50.6	105.0

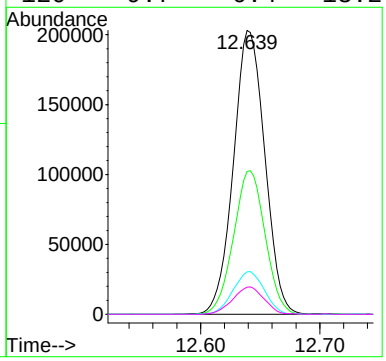


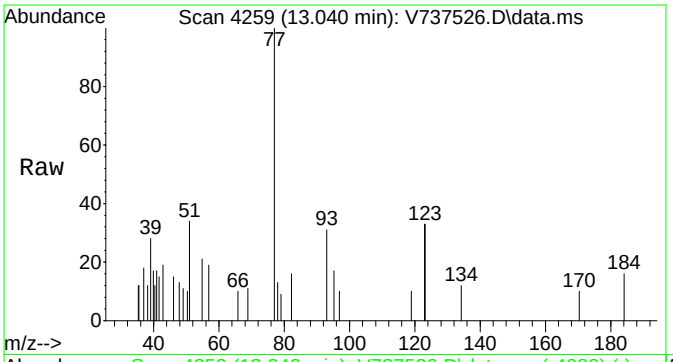


#94
1,2,4,5-Tetramethylbenzene
Concen: 11.79 ppb
RT: 12.639 min Scan# 4115
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:119 Resp: 372447

Ion	Ratio	Lower	Upper
119	100		
134	50.9	31.2	64.8
91	15.1	10.5	21.7
120	9.7	6.4	13.2

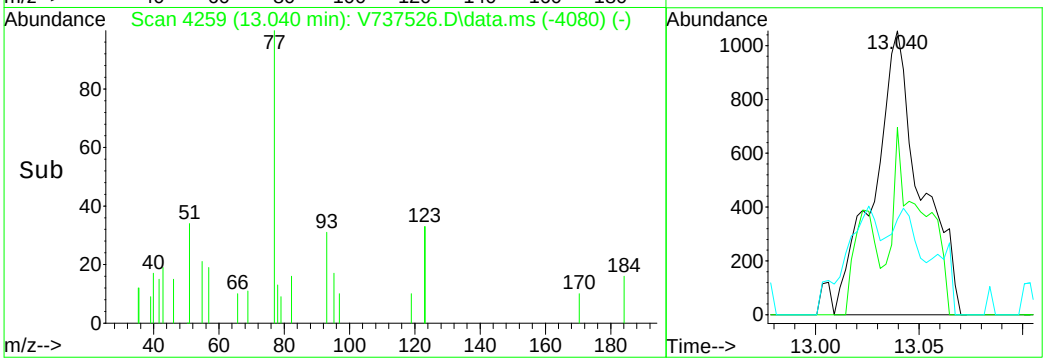


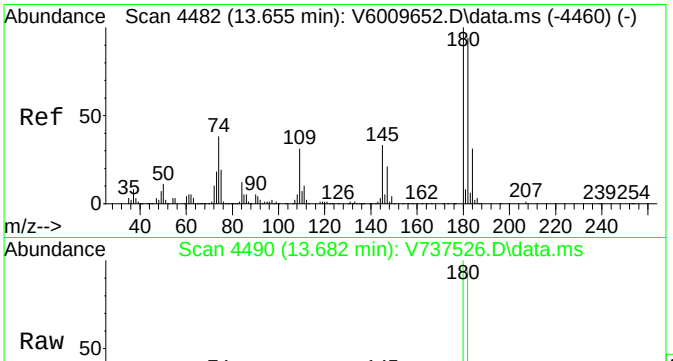


#95
Nitrobenzene
Concen: 10.36 ppb
RT: 13.040 min Scan# 4259
Delta R.T. -0.002 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion: 77 Resp: 1650

Ion	Ratio	Lower	Upper
77	100		
123	41.3	30.3	45.5
51	0.0	40.8	61.2#

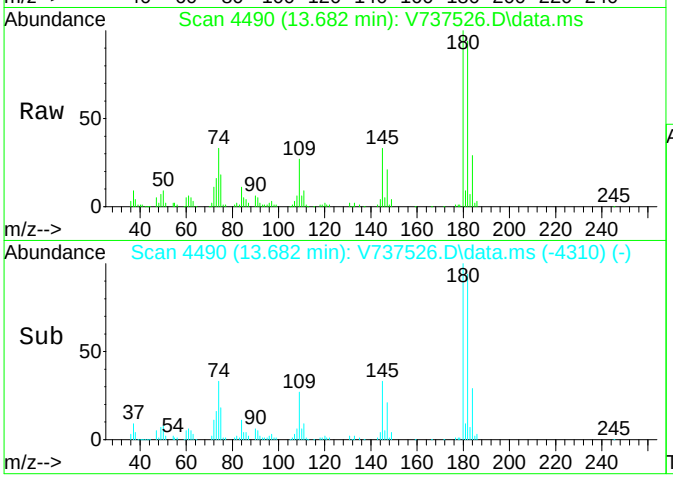


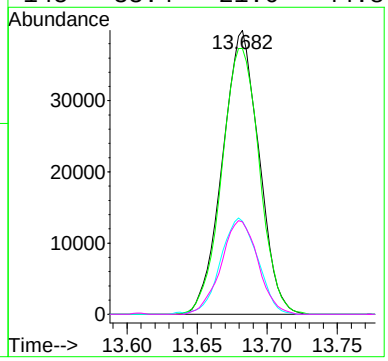


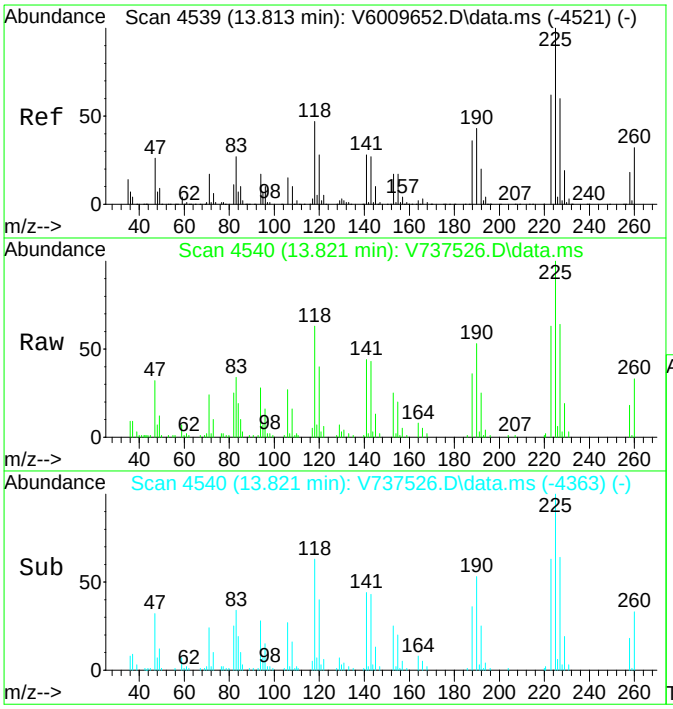
#96
1,2,4-Trichlorobenzene
Concen: 9.69 ppb
RT: 13.682 min Scan# 4490
Delta R.T. -0.000 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:180 Resp: 72128

Ion	Ratio	Lower	Upper
180	100		
182	96.4	62.1	129.1
74	34.3	20.0	41.6
145	33.4	21.6	44.8



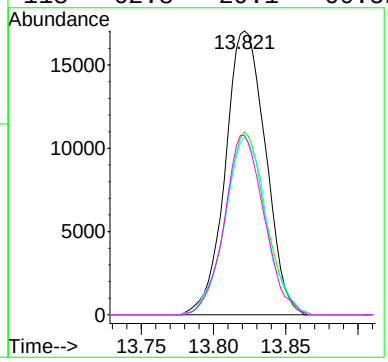


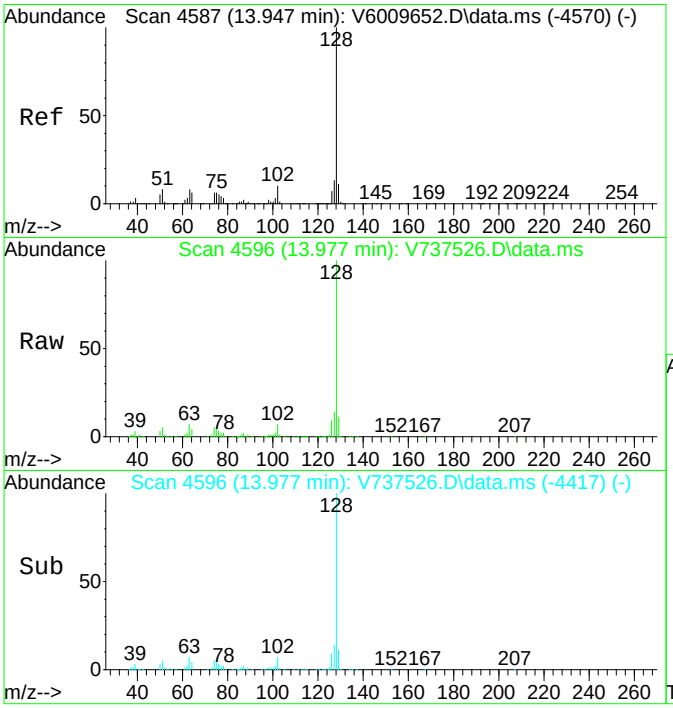


#97
Hexachloro-1,3-Butadiene
Concen: 10.97 ppb
RT: 13.821 min Scan# 4540
Delta R.T. -0.008 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:225 Resp: 33046

Ion	Ratio	Lower	Upper
225	100		
227	64.7	41.6	86.4
223	64.2	40.8	84.6
118	62.8	29.1	60.5#

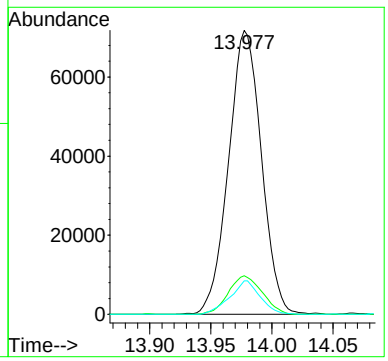


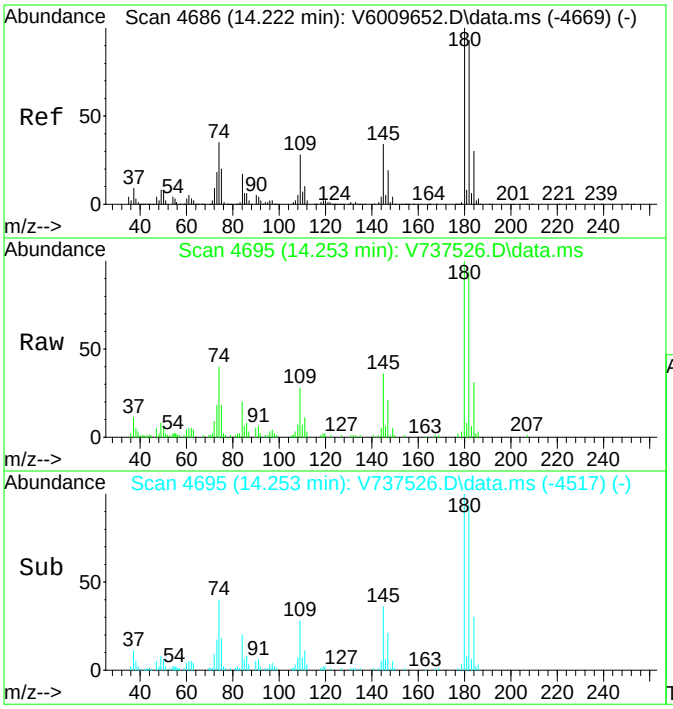


#98
Naphthalene
Concen: 9.78 ppb
RT: 13.977 min Scan# 4596
Delta R.T. -0.003 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:128 Resp: 134371

Ion	Ratio	Lower	Upper
128	100		
127	14.0	8.3	17.1
129	10.9	7.1	14.7

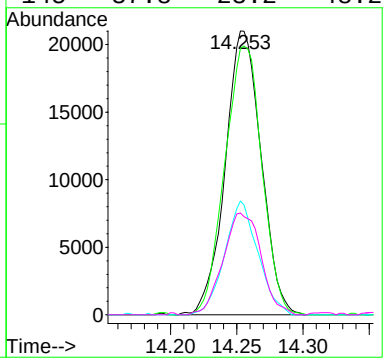




#99
1,2,3-Trichlorobenzene
Concen: 8.97 ppb
RT: 14.253 min Scan# 4695
Delta R.T. -0.006 min
Lab File: V737526.D
Acq: 23 Dec 2019 12:58 am

Tgt Ion:180 Resp: 39655

Ion	Ratio	Lower	Upper
180	100		
182	97.7	62.0	128.8
74	37.3	18.9	39.1
145	37.8	23.2	48.2



LCS RAW DATA

SDG: 19L0677
CLASS: VOA
METHOD: EPA 8260C

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737506.D
Acq On : 22 Dec 2019 3:05 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BS1
Misc : QBV7122219A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 23 08:52:31 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.822	70	74942	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	347000	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	129630	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	90924	10.56	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.60%				
53) Toluene-d8 (SURR)	7.344	98	457490	10.24	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.40%				
73) p-Bromofluorobenzene (...	10.121	95	135873	10.43	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	189215	21.89	ppb		96
3) Chloromethane	1.699	50	128866	15.54	ppb		97
4) Vinyl Chloride	1.799	62	187671	13.10	ppb		100
5) Bromomethane	2.155	94	91753	15.07	ppb		100
6) Chloroethane	2.258	64	158531	12.67	ppb		100
7) Trichlorofluoromethane	2.498	101	575509	12.17	ppb		98
8) Ethanol	2.793	45	49936	1691.54	ppb	#	52
9) Freon-113	2.998	101	119874	11.81	ppb		95
10) 1,1-Dichloroethylene	3.035	61	159305	11.81	ppb	#	74
11) Acrolein	2.985	56	5637	5.97	ppb		94
12) Acetone	3.143	43	14074	9.54	ppb	#	100
13) Iodomethane	3.210	142	54065	22.45	ppb		97
14) Ally Chloride	3.407	41	149116	12.05	ppb	#	76
15) Methyl Acetate	3.438	43	39873	10.97	ppb	#	96
16) Carbon disulfide	3.257	76	357130	12.04	ppb		100
17) tert-Butyl Alcohol (TBA)	3.675	59	34035	55.22	ppb	#	100
18) Methylene Chloride	3.552	49	119528	11.56	ppb	#	57
19) Acrylonitrile	3.833	53	14353	10.26	ppb	#	75
20) trans-1,2-Dichloroethy...	3.783	61	152007	12.13	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.752	73	287634	11.35	ppb		94
22) 1,1-Dichloroethane	4.209	63	196200	10.85	ppb		98
23) Vinyl Acetate	4.237	43	121401	8.98	ppb	#	100
24) Diisopropyl ether (DIPE)	4.189	45	288932	11.10	ppb	#	91
25) Ethyl-tert-Butyl ether...	4.534	59	287046	11.63	ppb	#	85
26) cis-1,2-Dichloroethylene	4.762	61	164396	11.24	ppb	#	65
27) 2-Butanone	4.785	72	10722	11.83	ppb	#	100
28) 2,2-Dichloropropane	4.732	77	188117	12.31	ppb	#	86
29) Tetrahydrofuran	5.024	71	8522	9.77	ppb	#	58
30) Bromochloromethane	5.002	49	70404	10.80	ppb	#	64
31) Chloroform	5.068	83	212104	10.86	ppb	#	99
32) 1,1,1-Trichloroethane	5.199	97	215499	11.98	ppb	#	99
33) Cyclohexane	5.210	56	161177	11.89	ppb	#	71
34) 1,1-Dichloropropylene	5.349	75	178172	11.24	ppb		83
36) Carbon Tetrachloride	5.338	117	204482	11.34	ppb		99
37) tert-Amyl alcohol (TAA)	5.583	59	74408	118.07	ppb	#	1
38) 1,2-Dichloroethane	5.622	62	123308	11.19	ppb		98
39) Benzene	5.561	78	488071	11.38	ppb	#	70
40) tert-Amyl methyl ether...	5.611	73	381735	11.97	ppb	#	98
42) Trichloroethylene	6.165	95	129597	10.45	ppb		80
43) Methyl Cyclohexane	6.293	83	193812	11.33	ppb	#	71
44) Methyl Methacrylate	6.479	69	58821	10.76	ppb	#	26
45) Dibromomethane	6.554	93	65114	10.23	ppb		98
46) Bromodichloromethane	6.696	83	149202	10.57	ppb		94
47) 1,2-Dichloropropane	6.412	63	102069	10.22	ppb		95
48) 1,4-Dioxane	6.646	88	225	5.92	ppb		100
49) 2-Nitropropane	6.952	43	29581	11.40	ppb	#	60
50) 2-Chloroethyl vinyl ether	6.955	63	22038	9.62	ppb		97
51) cis-1,3-Dichloropropene	7.113	75	182365	11.32	ppb		88

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737506.D
Acq On : 22 Dec 2019 3:05 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BS1
Misc : QBV7122219A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 23 08:52:31 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

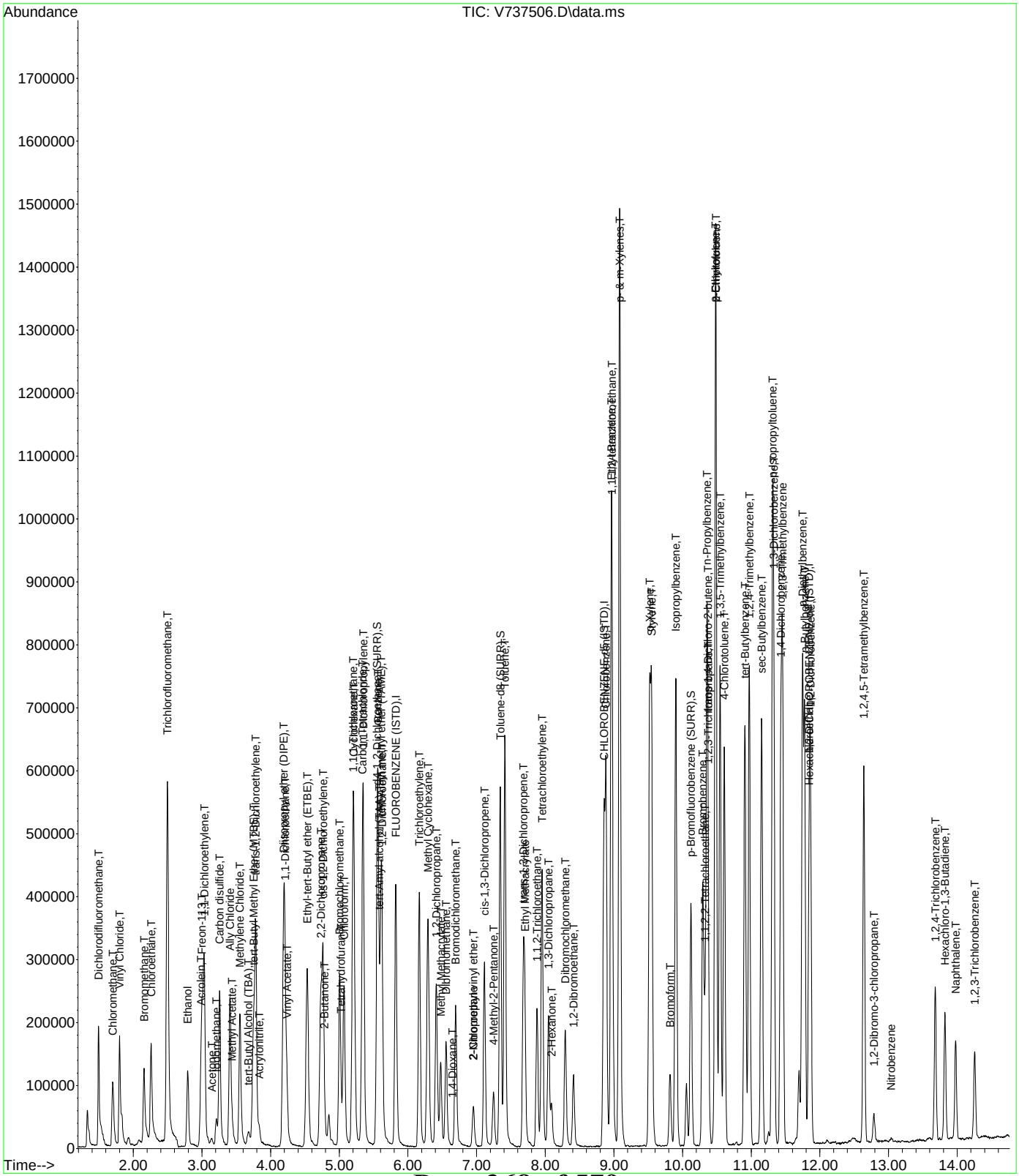
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.247	43	69698	11.96	ppb	#	92
54) Toluene	7.411	91	562367	10.98	ppb		99
55) Ethyl Methacrylate	7.703	69	126777	11.26	ppb	#	26
56) trans-1,3-Dichloropropene	7.681	75	152763	11.09	ppb		99
57) 1,1,2-Trichloroethane	7.881	97	80448	10.20	ppb		94
58) 1,3-Dichloropropane	8.048	76	142547	10.73	ppb	#	99
59) Tetrachloroethylene	7.954	166	136777	9.05	ppb	#	100
60) 2-Hexanone	8.093	43	47106	11.29	ppb	#	11
61) Dibromochloromethane	8.290	129	116450	11.43	ppb	#	96
62) 1,2-Dibromoethane	8.413	107	81351	10.13	ppb		99
63) Chlorobenzene	8.883	112	381201	10.45	ppb	#	89
64) 1,1,1,2-tetrachloroethane	8.972	131	144452	10.58	ppb		98
65) Ethyl Benzene	8.961	91	631482	10.79	ppb		96
66) p- & m-Xylenes	9.083	91	986330	21.56	ppb		94
67) o-Xylene	9.520	91	482743	11.04	ppb		98
68) Styrene	9.548	104	405812	10.92	ppb	#	100
69) Bromoform	9.818	173	54544	10.12	ppb	#	76
71) p-Ethyltoluene	10.480	105	642072	11.13	ppb	#	87
72) Isopropylbenzene	9.901	105	622447	10.29	ppb		96
74) 1,1,2,2-Tetrachloroethane	10.324	83	101868	10.29	ppb	#	98
75) Bromobenzene	10.294	77	193285	10.73	ppb		81
76) trans-1,4-Dichloro-2-b...	10.371	75	108785	11.09	ppb	#	84
77) 1,2,3-Trichloropropane	10.374	110	33463	11.00	ppb		79
78) n-Propylbenzene	10.355	91	708846	10.33	ppb		97
79) 2-Chlorotoluene	10.485	91	478686	10.60	ppb		97
80) 4-Chlorotoluene	10.608	91	401713	10.34	ppb		96
81) 1,3,5-Trimethylbenzene	10.547	105	497604	10.51	ppb		96
82) tert-Butylbenzene	10.908	119	436612	10.35	ppb		91
83) 1,2,4-Trimethylbenzene	10.972	105	497223	10.32	ppb		98
84) sec-Butylbenzene	11.153	105	600672	11.34	ppb		97
85) 1,3-Dichlorobenzene	11.328	146	294867	10.02	ppb		96
86) p-Isopropyltoluene	11.309	119	575540	10.84	ppb		97
87) 1,4-Dichlorobenzene	11.431	146	294886	10.12	ppb		94
88) 1,2,3-Trimethylbenzene	11.456	105	483898	10.74	ppb		96
89) p-Diethylbenzene	11.749	105	281972	12.58	ppb		88
90) 1,2-Dichlorobenzene	11.863	146	243226	9.96	ppb	#	68
91) n-Butylbenzene	11.776	91	522399	14.51	ppb		92
92) Hexachloroethane	11.840	117	24540	3.21	ppb	#	4
93) 1,2-Dibromo-3-chloropr...	12.786	75	11174	9.96	ppb	#	66
94) 1,2,4,5-Tetramethylben...	12.639	119	388603	10.77	ppb		97
95) Nitrobenzene	13.037	77	2250	12.37	ppb	#	84
96) 1,2,4-Trichlorobenzene	13.682	180	77991	9.17	ppb		97
97) Hexachloro-1,3-Butadiene	13.821	225	35249	10.25	ppb	#	90
98) Naphthalene	13.977	128	149236	9.51	ppb		98
99) 1,2,3-Trichlorobenzene	14.253	180	44787	8.87	ppb		97

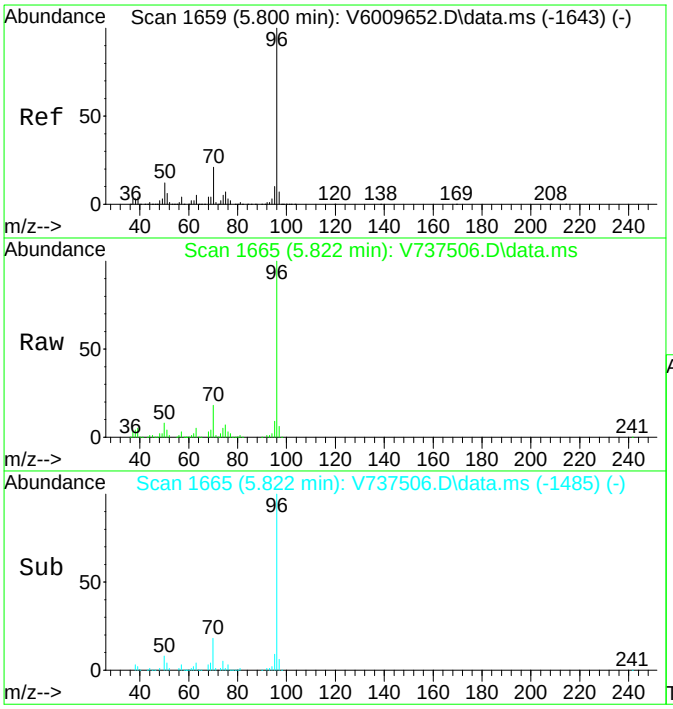
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737506.D
Acq On : 22 Dec 2019 3:05 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BS1
Misc : QBV7122219A
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 23 08:52:31 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

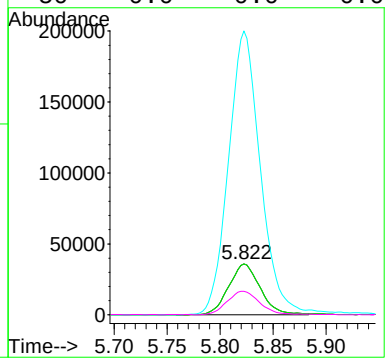


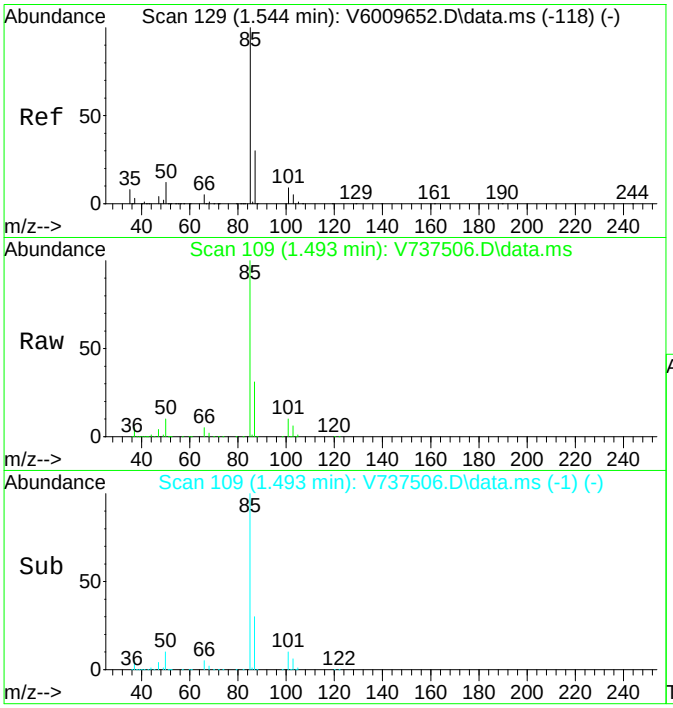


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 70 Resp: 74942

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	556.6	323.6	672.2
50	0.0	0.0	0.0

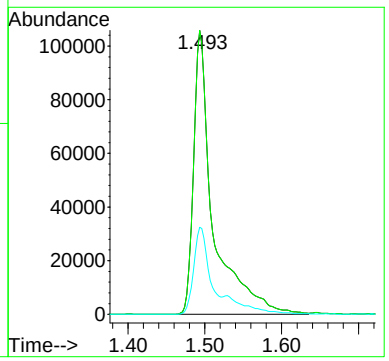


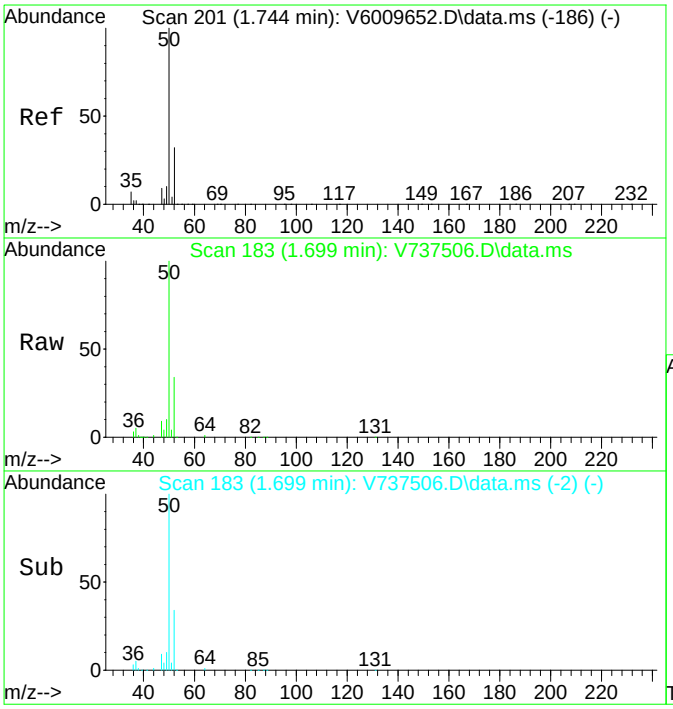


#2
Dichlorodifluoromethane
Concen: 21.89 ppb
RT: 1.493 min Scan# 109
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 85 Resp: 189215

Ion	Ratio	Lower	Upper
85	100		
85	100.0	65.0	135.0
87	24.1	21.1	43.9

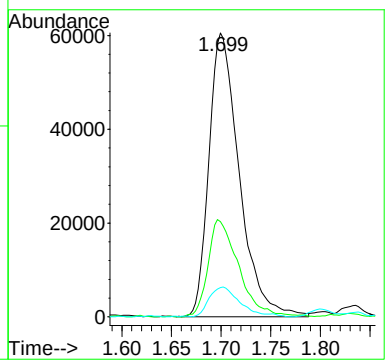


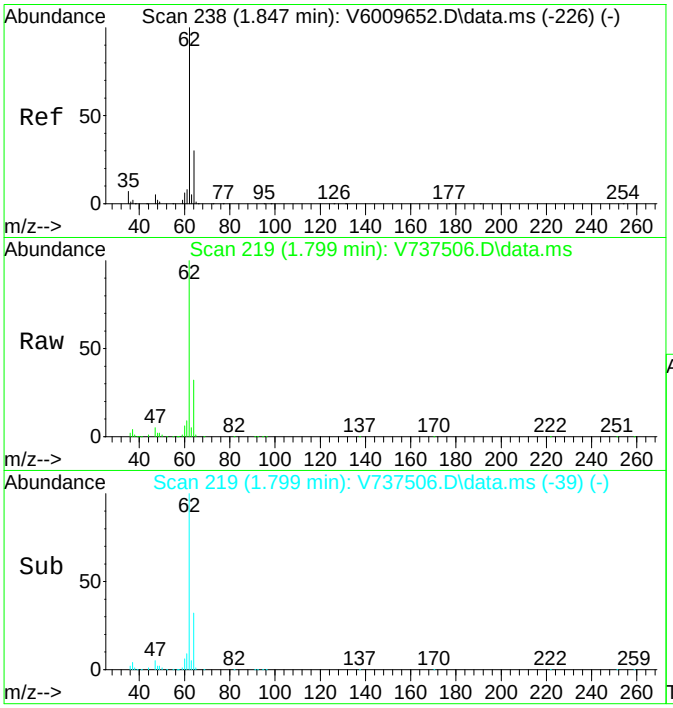


#3
Chloromethane
Concen: 15.54 ppb
RT: 1.699 min Scan# 183
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 50 Resp: 128866

Ion	Ratio	Lower	Upper
50	100		
52	34.4	20.9	43.5
49	10.4	6.6	13.6

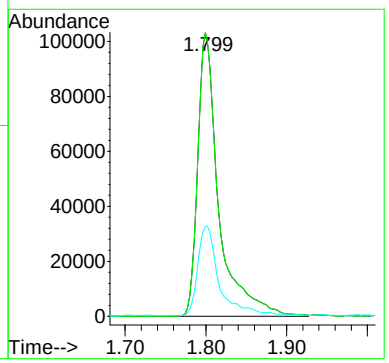


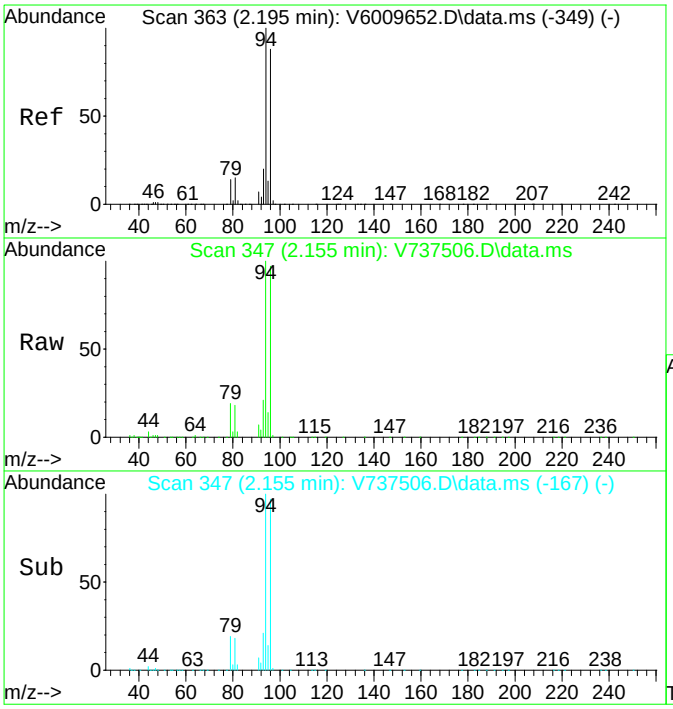


#4
Vinyl Chloride
Concen: 13.10 ppb
RT: 1.799 min Scan# 219
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 62 Resp: 187671

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	31.1	20.2	42.0

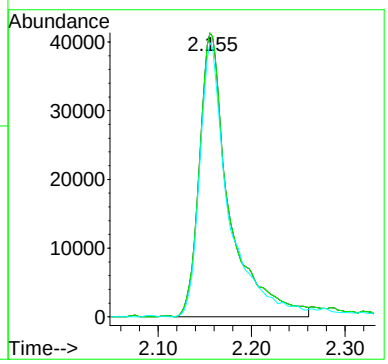


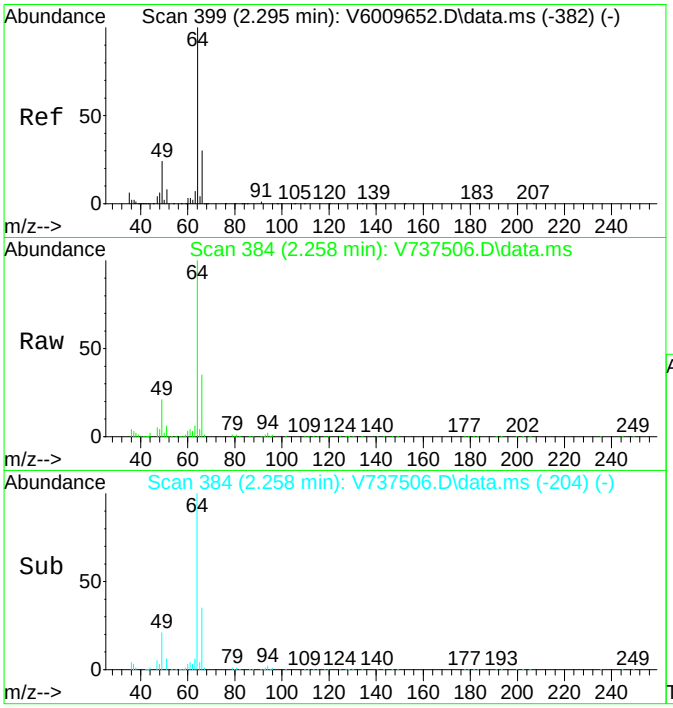


#5
Bromomethane
Concen: 15.07 ppb
RT: 2.155 min Scan# 347
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 94 Resp: 91753

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	92.6	45.9	137.6

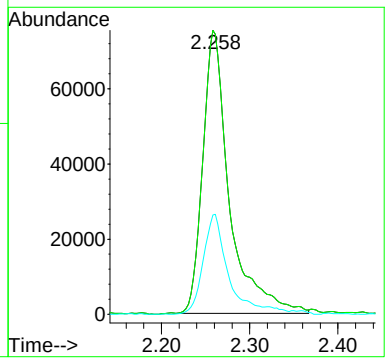


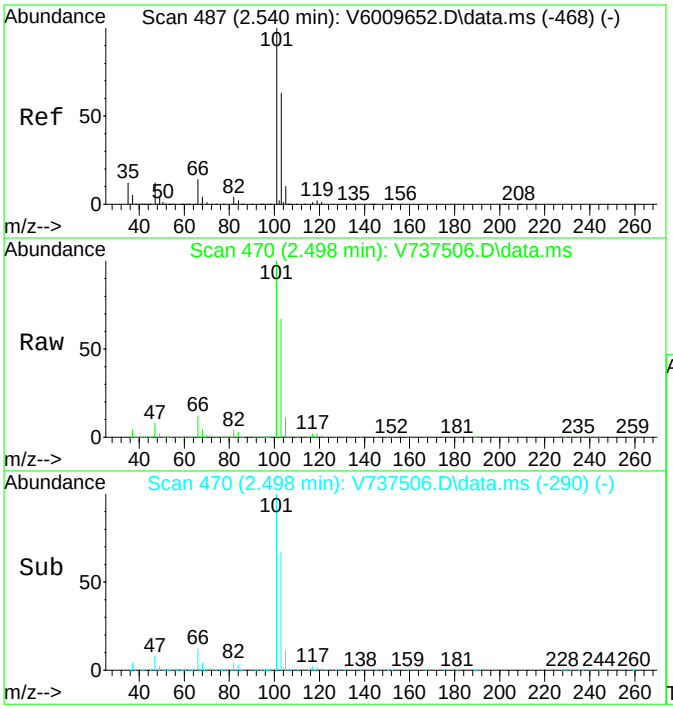


#6
Chloroethane
Concen: 12.67 ppb
RT: 2.258 min Scan# 384
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 64 Resp: 158531

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	32.2	20.6	42.8

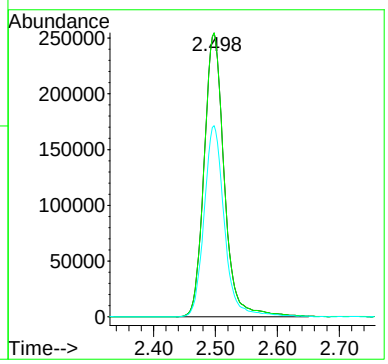


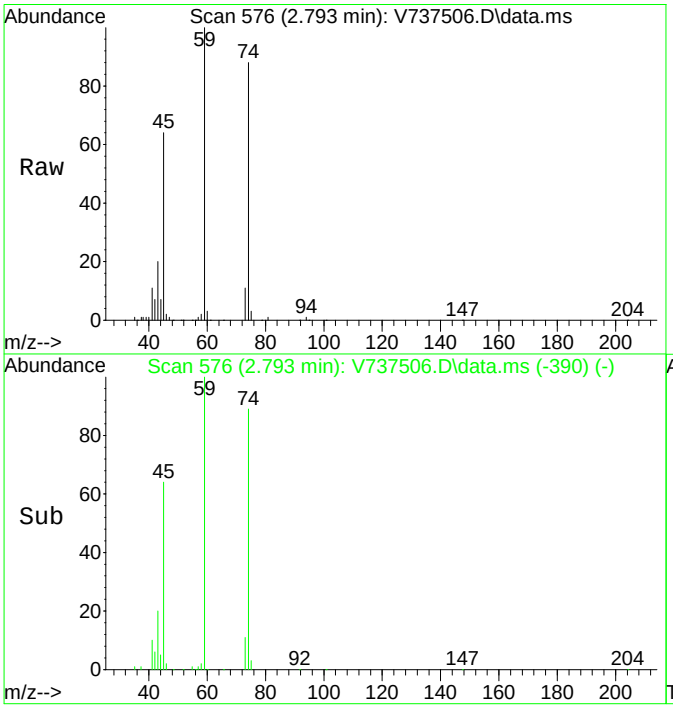


#7
Trichlorofluoromethane
Concen: 12.17 ppb
RT: 2.498 min Scan# 470
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:101 Resp: 575509

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.9	41.9	87.1

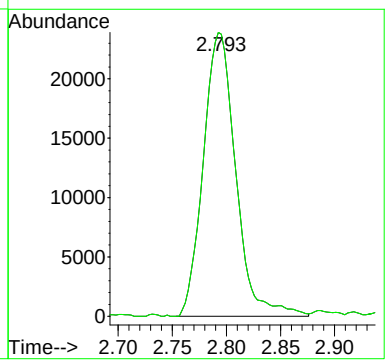


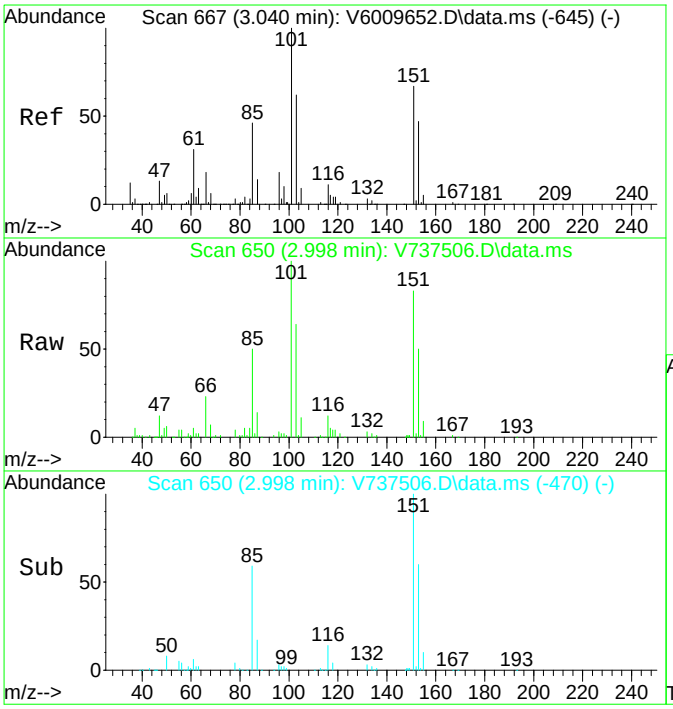


#8
Ethanol
Concen: 1691.54 ppb
RT: 2.793 min Scan# 576
Delta R.T. 0.017 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 45 Resp: 49936

Ion	Ratio	Lower	Upper
45	100		
45	100.0	31.3	93.9#

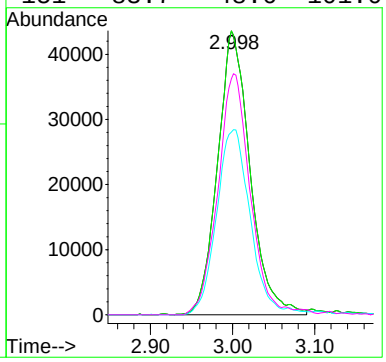


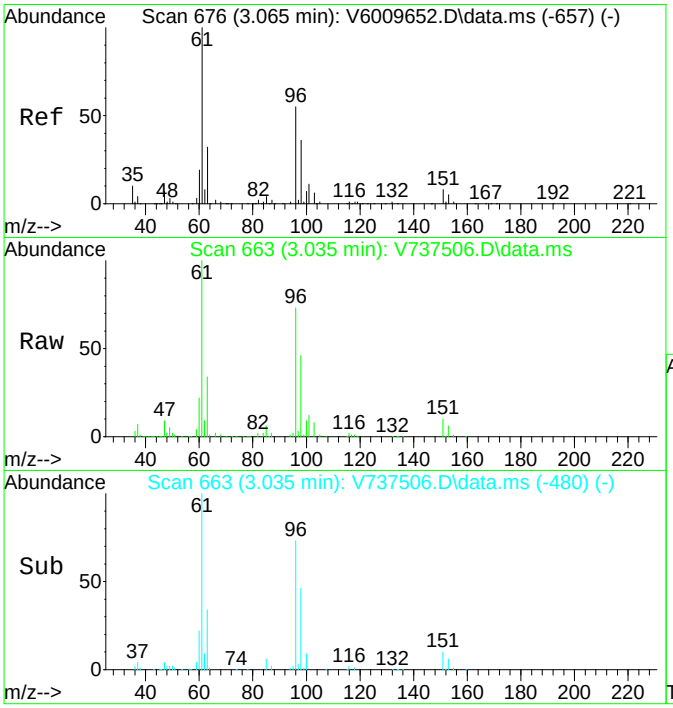


#9
Freon-113
Concen: 11.81 ppb
RT: 2.998 min Scan# 650
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:101 Resp: 119874

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	66.7	40.9	84.9
151	83.7	48.6	101.0

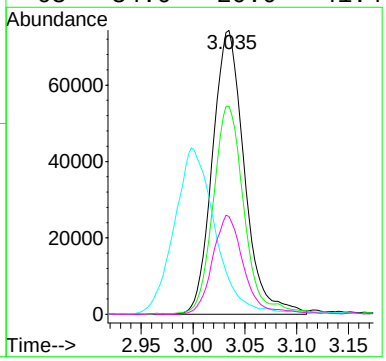


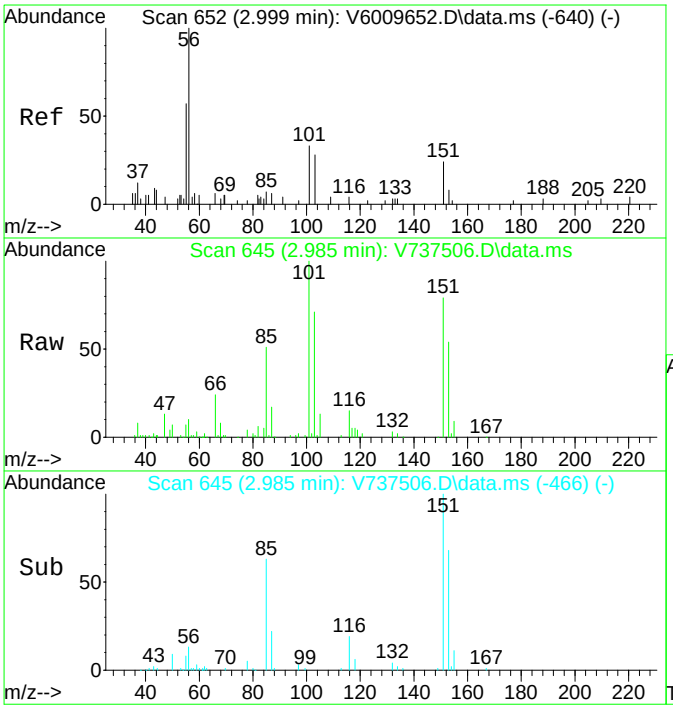


#10
1,1-Dichloroethylene
Concen: 11.81 ppb
RT: 3.035 min Scan# 663
Delta R.T. 0.008 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 61 Resp: 159305

Ion	Ratio	Lower	Upper
61	100		
96	70.3	33.9	70.3#
101	75.2	32.0	66.4#
63	34.0	20.0	41.4

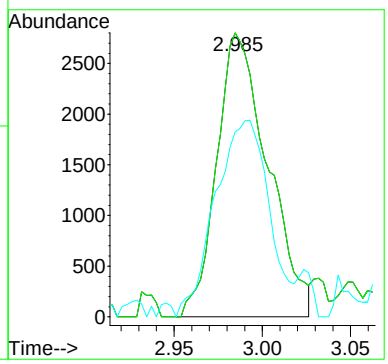


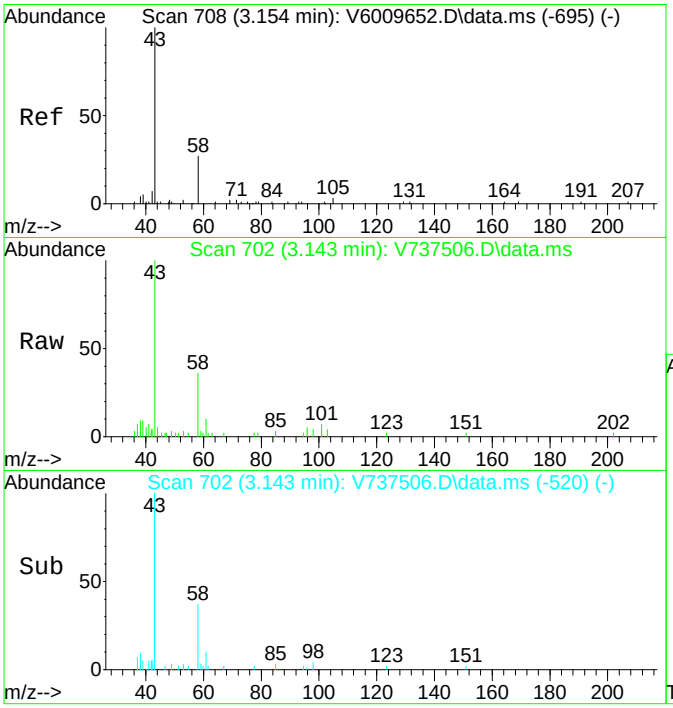


#11
Acrolein
Concen: 5.97 ppb
RT: 2.985 min Scan# 645
Delta R.T. -0.002 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 56 Resp: 5637

Ion	Ratio	Lower	Upper
56	100		
56	100.0	74.8	112.2
55	72.8	34.3	102.9

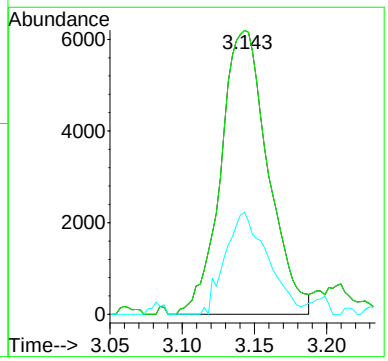


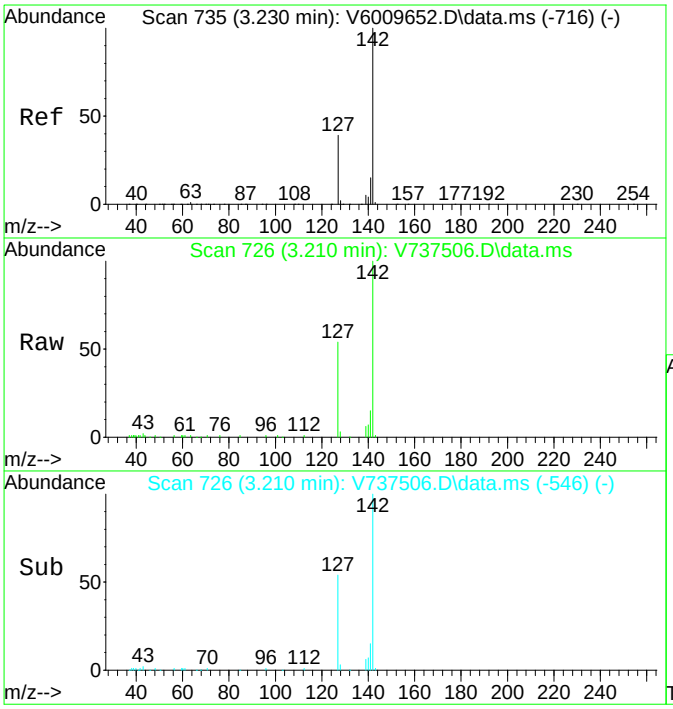


#12
Acetone
Concen: 9.54 ppb
RT: 3.143 min Scan# 702
Delta R.T. 0.005 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 43 Resp: 14074

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	32.4	0.0	0.0#

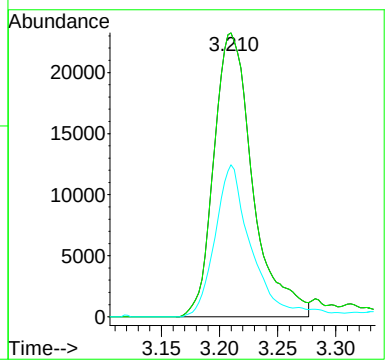


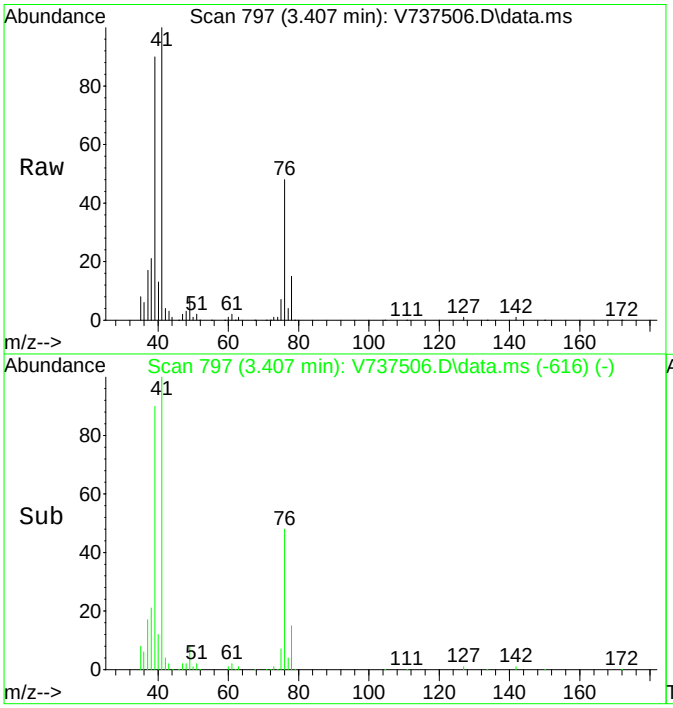


#13
Iodomethane
Concen: 22.45 ppb
RT: 3.210 min Scan# 726
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:142 Resp: 54065

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	47.9	20.9	62.8

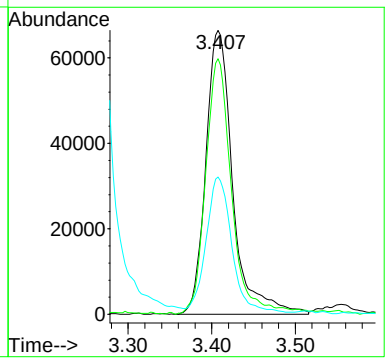


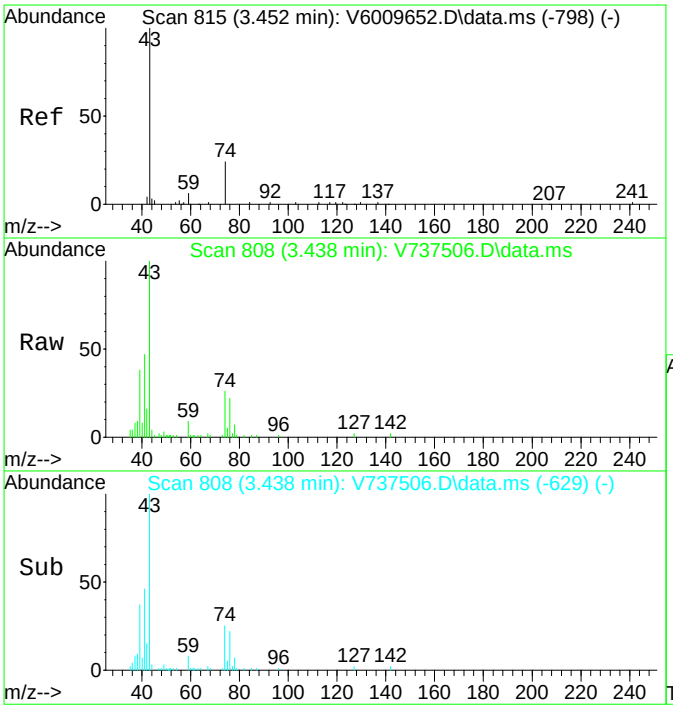


#14
Ally Chloride
Concen: 12.05 ppb
RT: 3.407 min Scan# 797
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 41 Resp: 149116

Ion	Ratio	Lower	Upper
41	100		
39	86.3	54.5	81.7#
76	45.4	24.3	36.5#

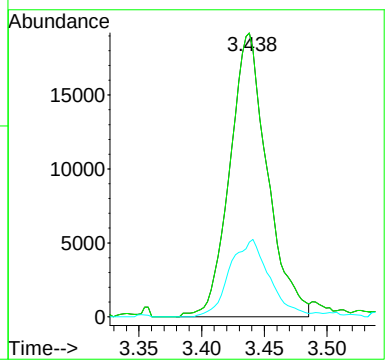


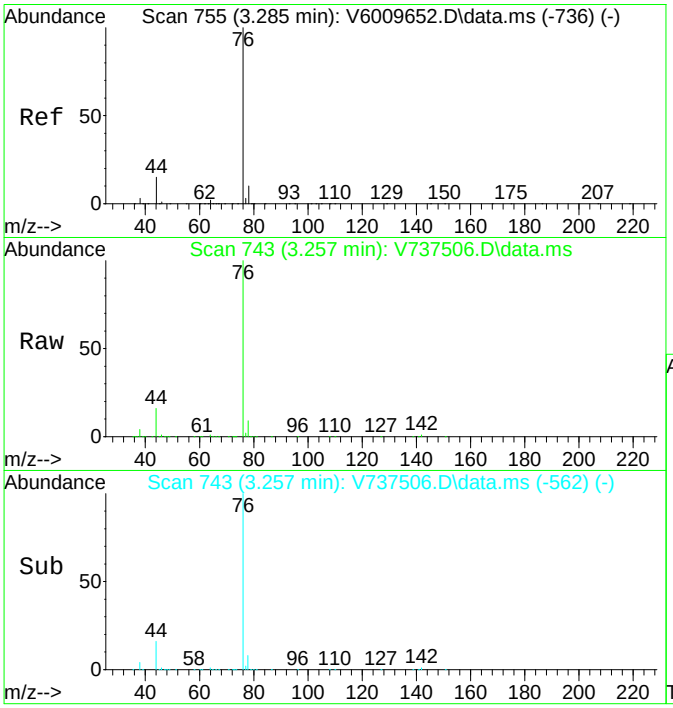


#15
Methyl Acetate
Concen: 10.97 ppb
RT: 3.438 min Scan# 808
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 43 Resp: 39873

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	28.9	8.5	25.5#

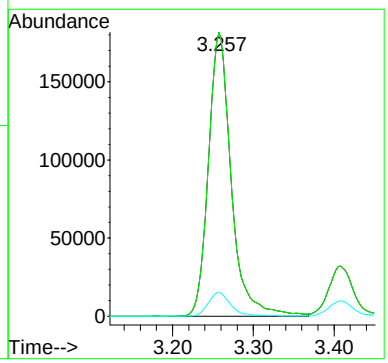


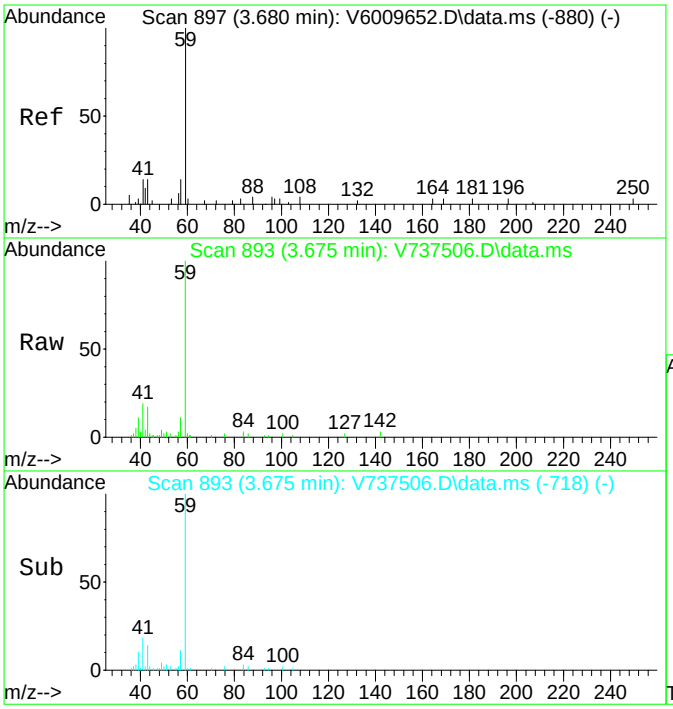


#16
Carbon disulfide
Concen: 12.04 ppb
RT: 3.257 min Scan# 743
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 76 Resp: 357130

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	8.4	4.5	13.5

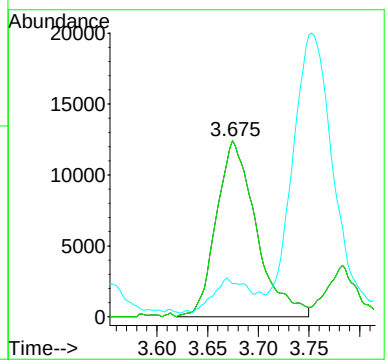


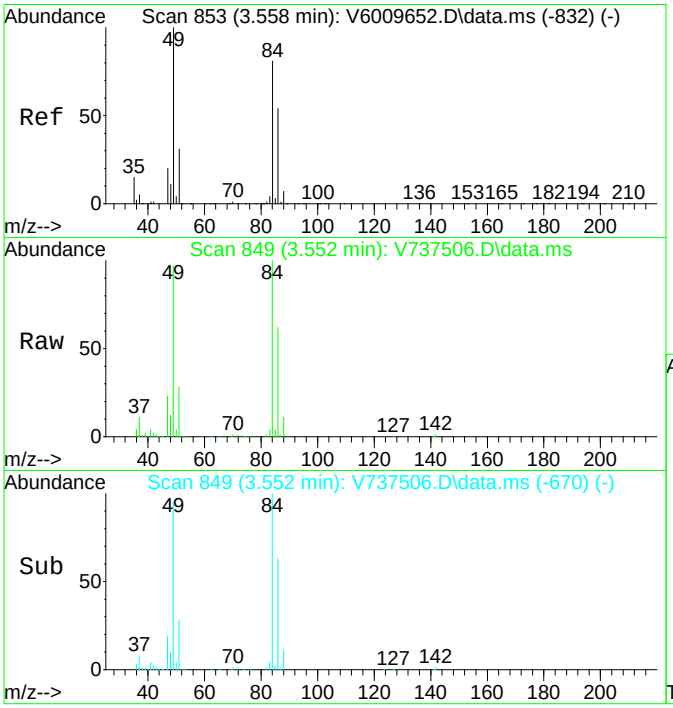


#17
tert-Butyl Alcohol (TBA)
Concen: 55.22 ppb
RT: 3.675 min Scan# 893
Delta R.T. -0.014 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 59 Resp: 34035

Ion	Ratio	Lower	Upper
59	100		
59	100.0	65.0	135.0
41	0.0	0.0	0.0

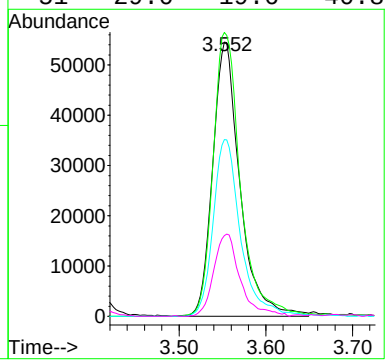


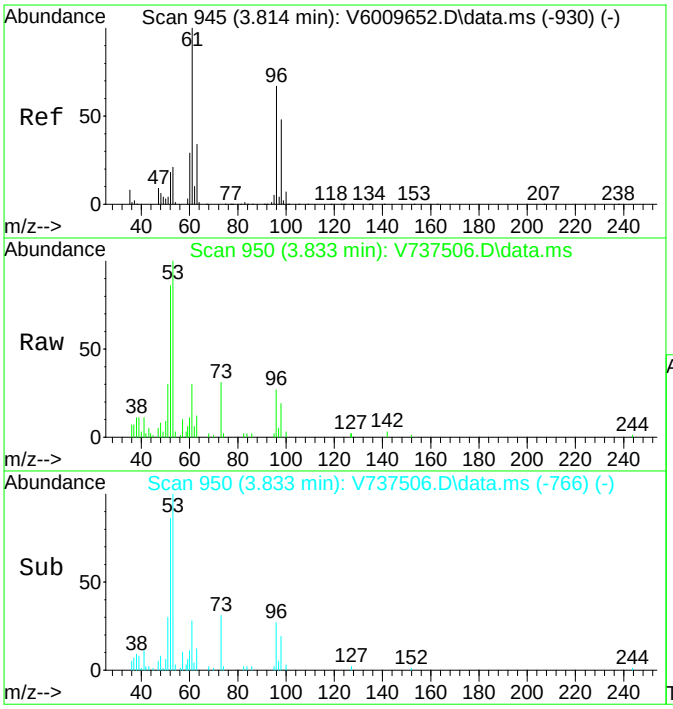


#18
Methylene Chloride
Concen: 11.56 ppb
RT: 3.552 min Scan# 849
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 49 Resp: 119528

Ion	Ratio	Lower	Upper
49	100		
84	103.7	38.0	78.8#
86	64.8	24.0	49.8#
51	29.0	19.6	40.8

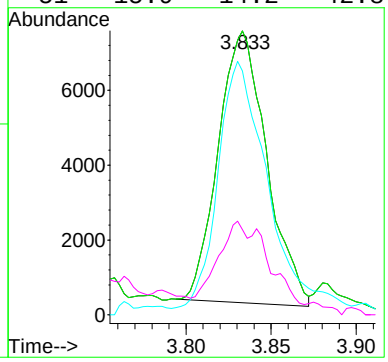


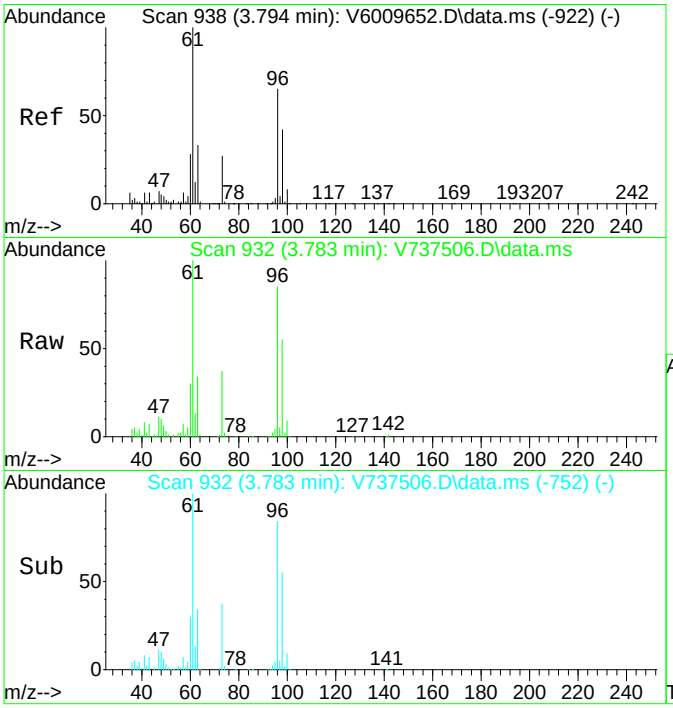


#19
Acrylonitrile
Concen: 10.26 ppb
RT: 3.833 min Scan# 950
Delta R.T. 0.011 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 53 Resp: 14353

Ion	Ratio	Lower	Upper
53	100		
53	100.0	62.2	93.4#
52	92.7	0.0	0.0#
51	15.9	14.2	42.8

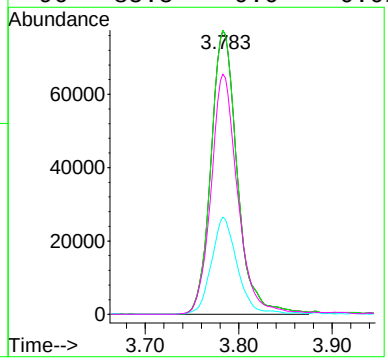


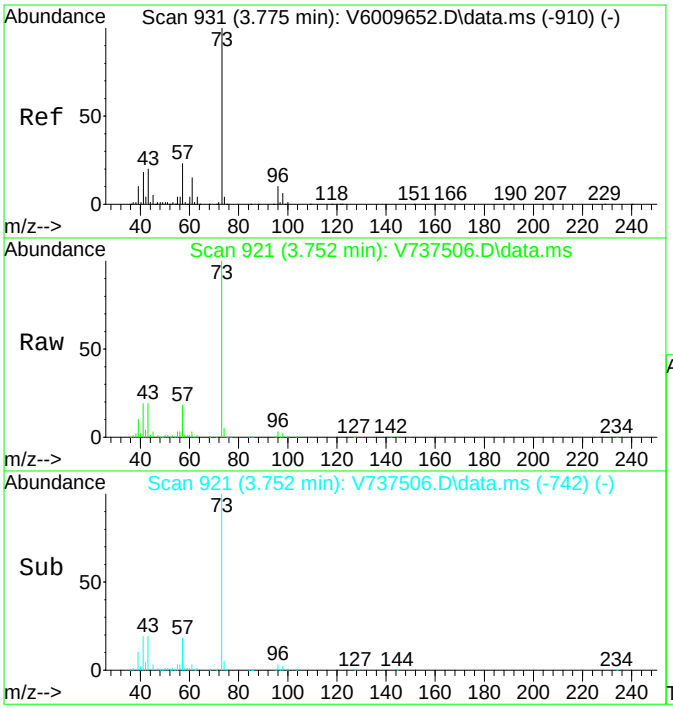


#20
trans-1,2-Dichloroethylene
Concen: 12.13 ppb
RT: 3.783 min Scan# 932
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 61 Resp: 152007

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	33.0	0.0	0.0#
96	85.5	0.0	0.0#

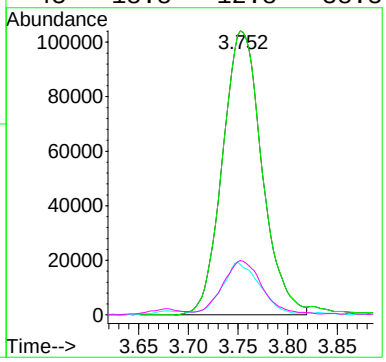


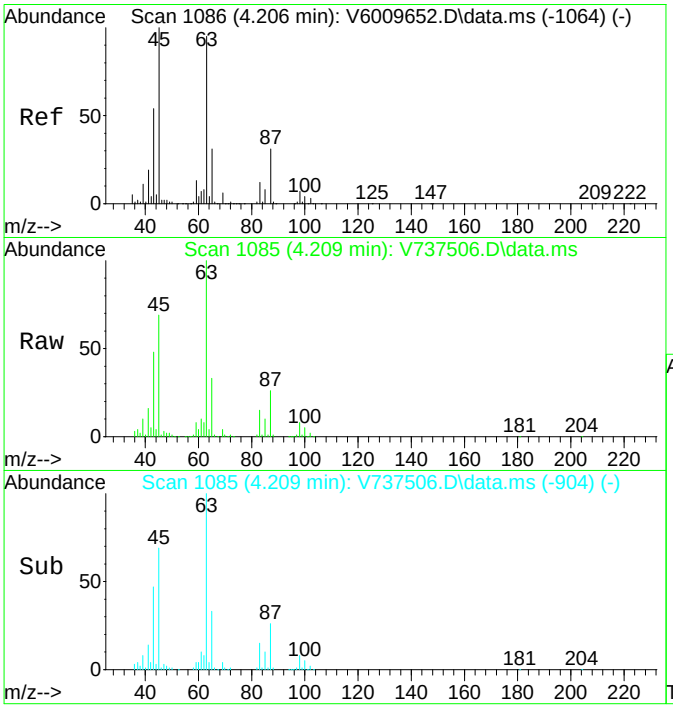


#21
tert-Butyl Methyl Ether (MTBE)
Concen: 11.35 ppb
RT: 3.752 min Scan# 921
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 73 Resp: 287634

Ion	Ratio	Lower	Upper
73	100		
73	100.0	80.0	120.0
57	16.5	13.2	39.5
43	18.8	12.8	38.3

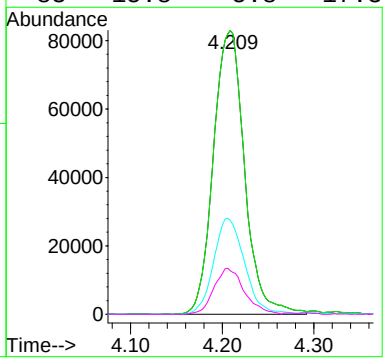


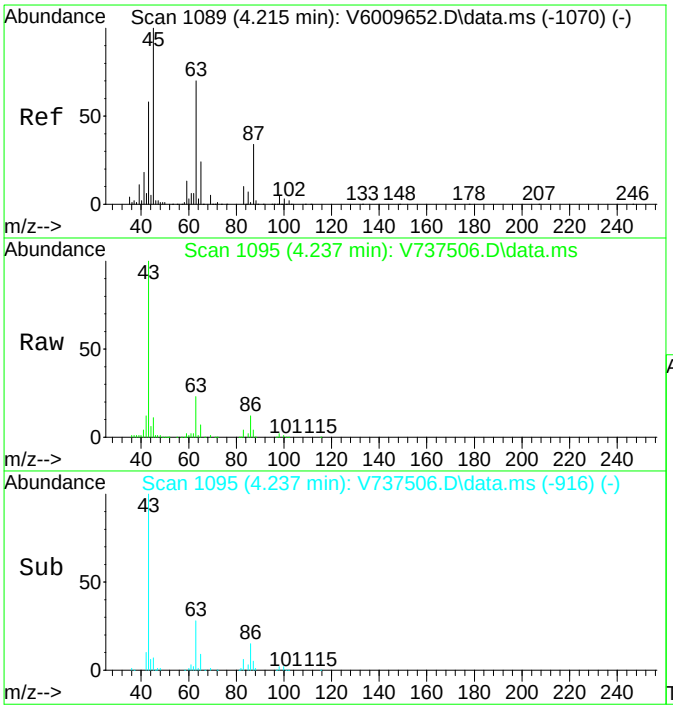


#22
1,1-Dichloroethane
Concen: 10.85 ppb
RT: 4.209 min Scan# 1085
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 63 Resp: 196200

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	33.6	19.9	41.3
83	15.8	5.8	17.3

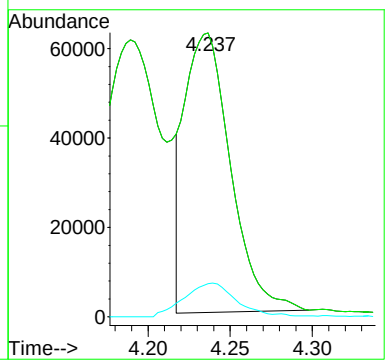


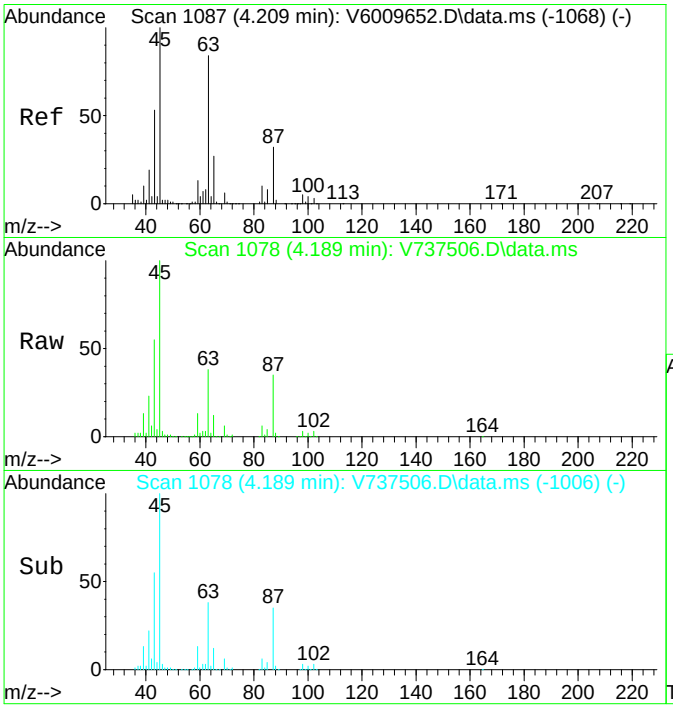


#23
Vinyl Acetate
Concen: 8.98 ppb
RT: 4.237 min Scan# 1095
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 43 Resp: 121401

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
86	13.5	0.0	0.0#

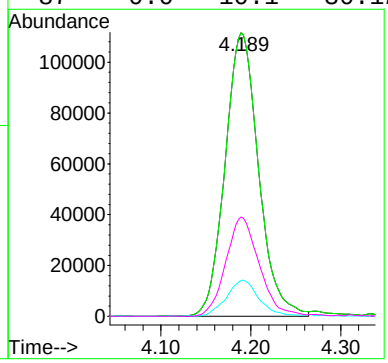


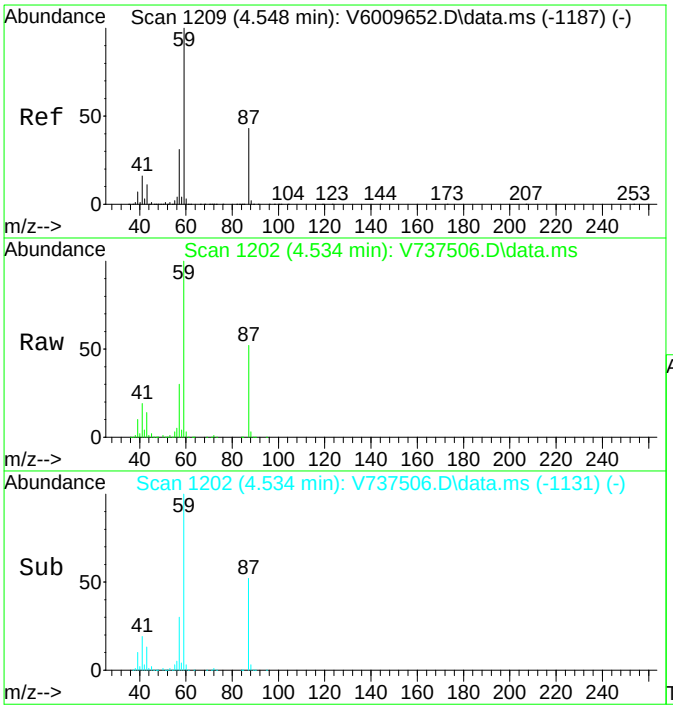


#24
Diisopropyl ether (DIPE)
Concen: 11.10 ppb
RT: 4.189 min Scan# 1078
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 45 Resp: 288932

Ion	Ratio	Lower	Upper
45	100		
45	100.0	80.0	120.0
59	0.0	5.1	15.3#
87	0.0	10.1	30.1#

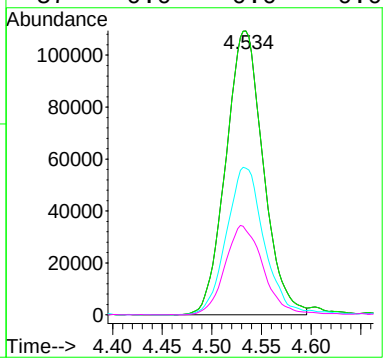


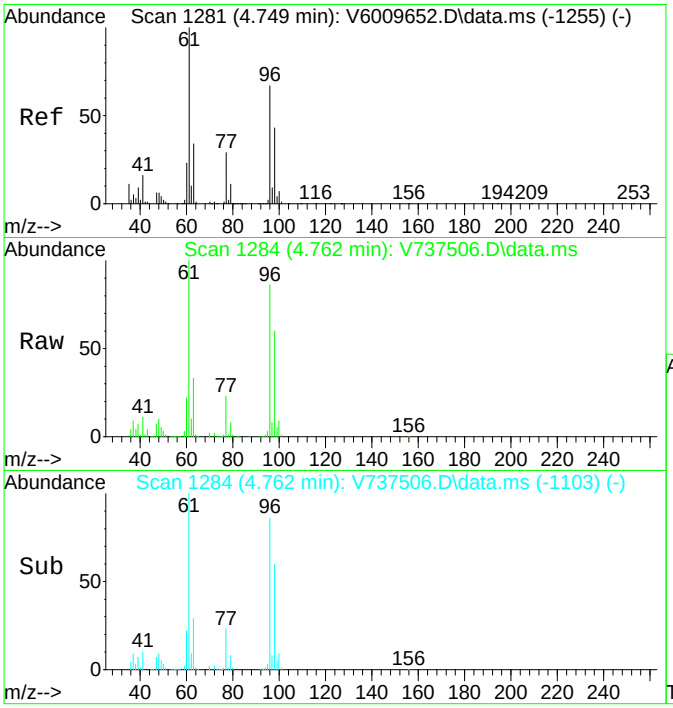


#25
Ethyl-tert-Butyl ether (ETBE)
Concen: 11.63 ppb
RT: 4.534 min Scan# 1202
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 59 Resp: 287046

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
87	0.0	17.0	51.0#
57	0.0	0.0	0.0

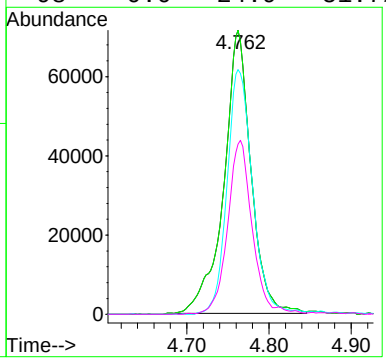


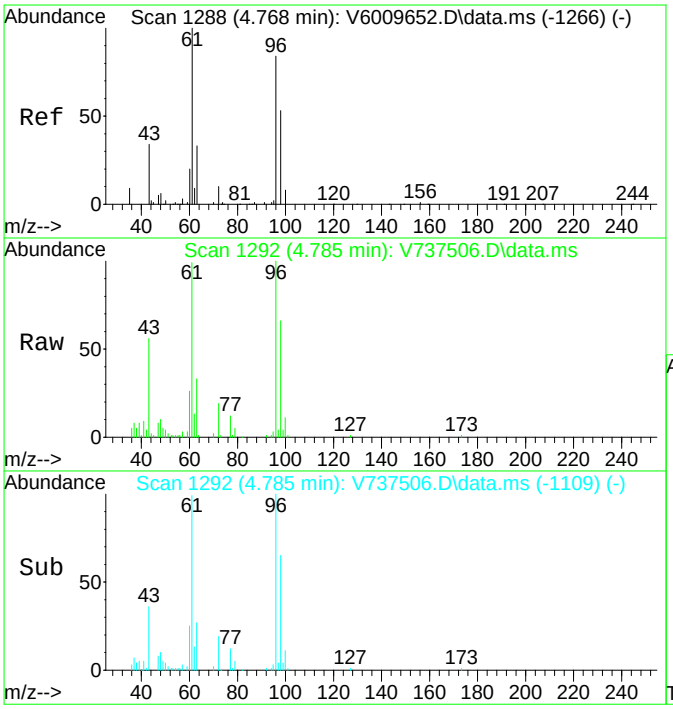


#26
cis-1,2-Dichloroethylene
Concen: 11.24 ppb
RT: 4.762 min Scan# 1284
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 61 Resp: 164396

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	37.8	78.4#
98	0.0	24.9	51.7#

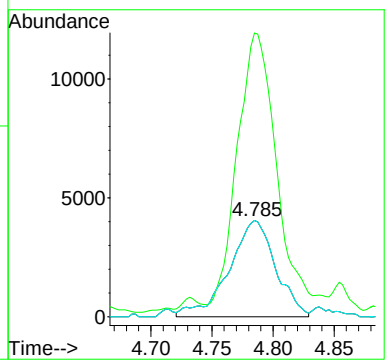


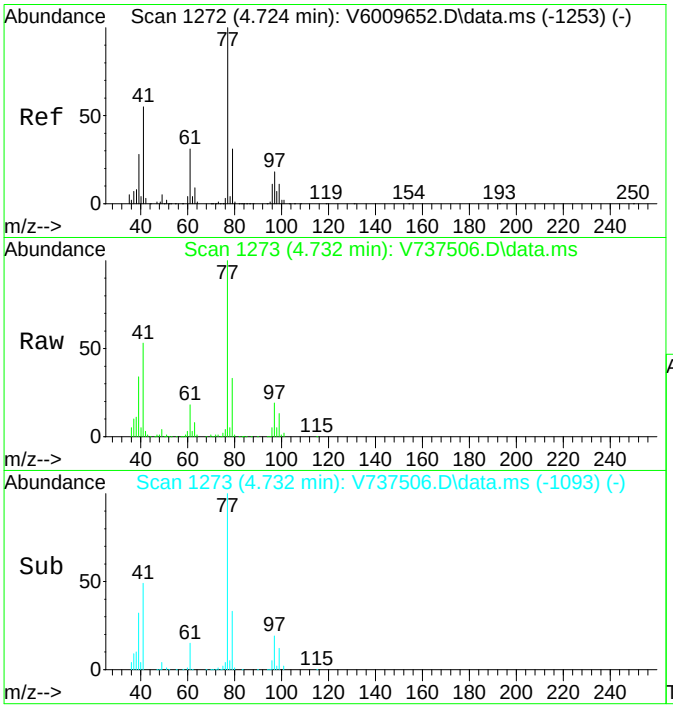


#27
2-Butanone
Concen: 11.83 ppb
RT: 4.785 min Scan# 1292
Delta R.T. 0.009 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 72 Resp: 10722

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	0.0
72	100.0	50.0	150.0

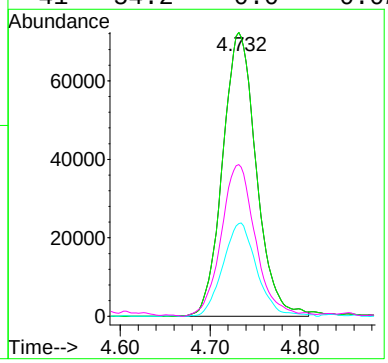


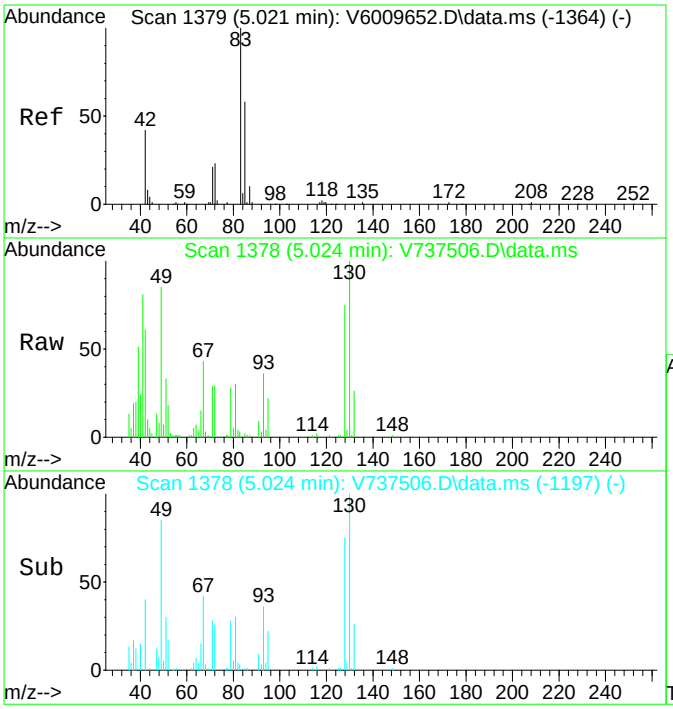


#28
2,2-Dichloropropane
Concen: 12.31 ppb
RT: 4.732 min Scan# 1273
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 77 Resp: 188117

Ion	Ratio	Lower	Upper
77	100		
77	100.0	80.0	120.0
79	0.0	20.9	43.5#
41	54.2	0.0	0.0#

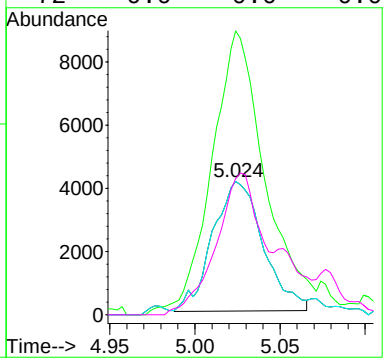


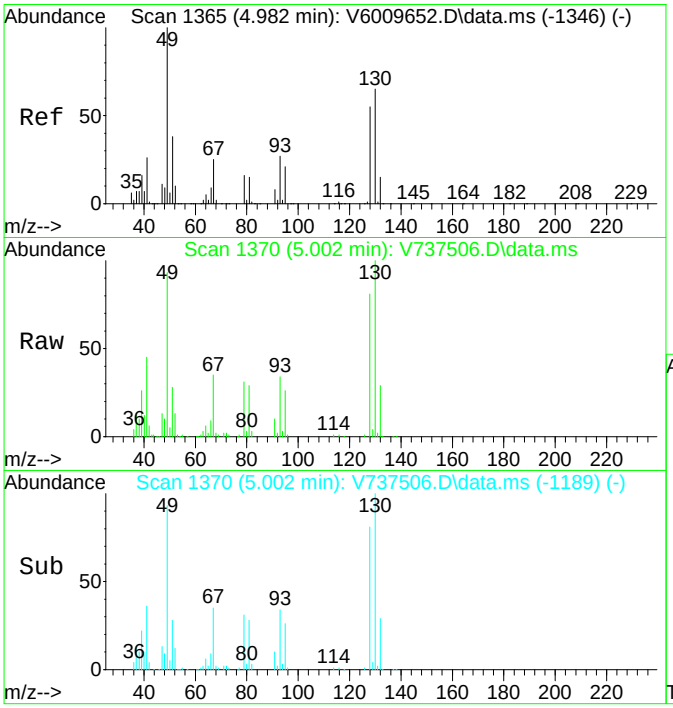


#29
Tetrahydrofuran
Concen: 9.77 ppb
RT: 5.024 min Scan# 1378
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 71 Resp: 8522

Ion	Ratio	Lower	Upper
71	100		
42	231.9	279.2	418.8#
71	100.0	50.0	150.0
72	0.0	0.0	0.0

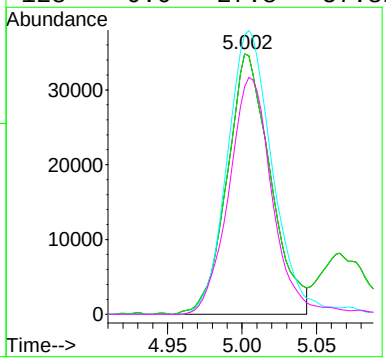


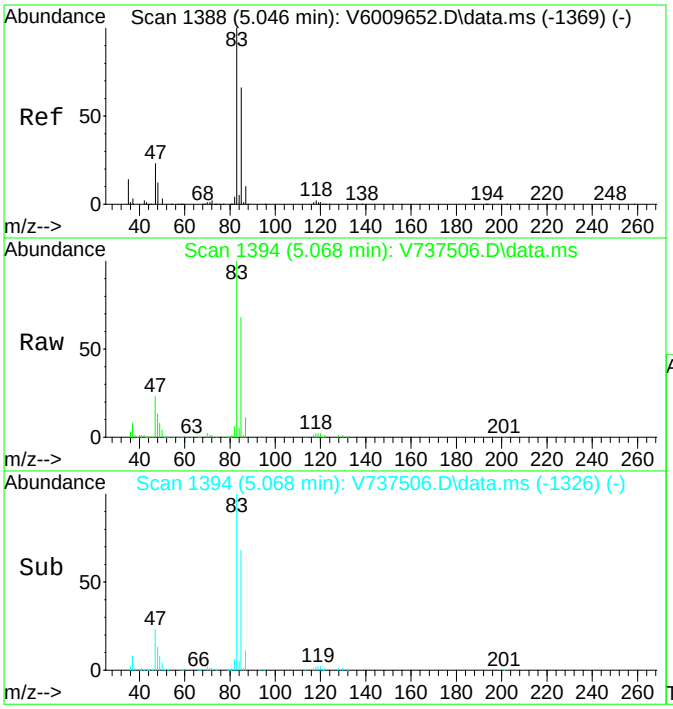


#30
Bromochloromethane
Concen: 10.80 ppb
RT: 5.002 min Scan# 1370
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 49 Resp: 70404

Ion	Ratio	Lower	Upper
49	100		
49	100.0	65.0	135.0
130	0.0	35.7	74.1#
128	0.0	27.8	57.8#

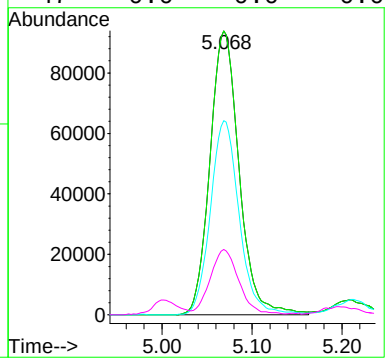


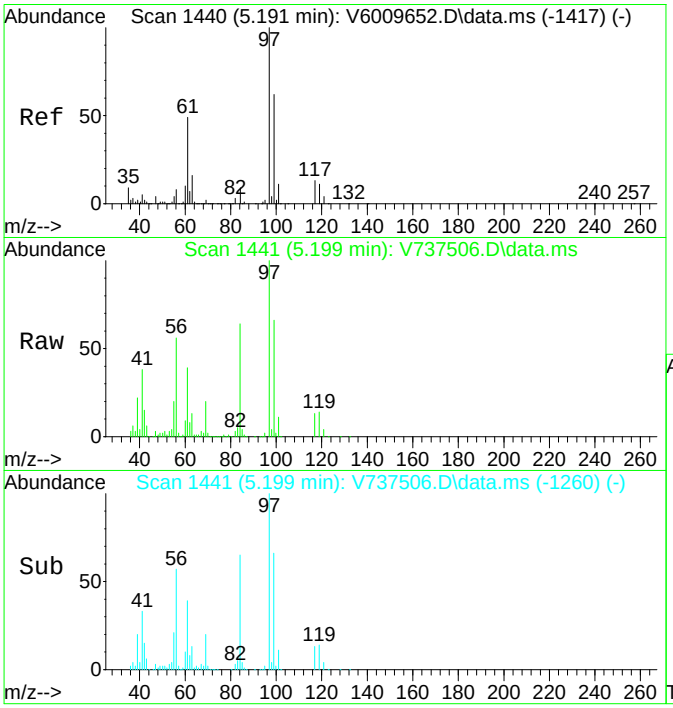


#31
Chloroform
Concen: 10.86 ppb
RT: 5.068 min Scan# 1394
Delta R.T. -0.011 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 83 Resp: 212104

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	67.1	41.8	86.8
47	0.0	0.0	0.0

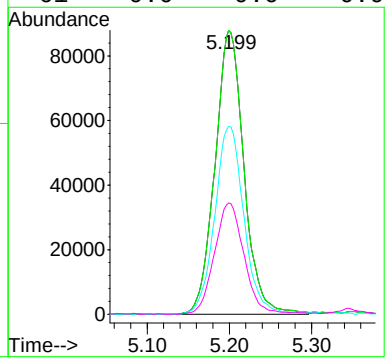


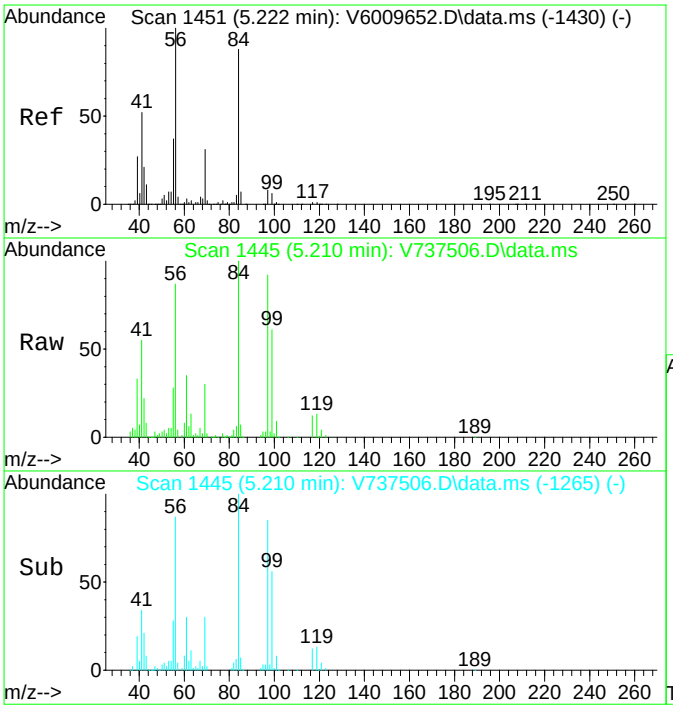


#32
1,1,1-Trichloroethane
Concen: 11.98 ppb
RT: 5.199 min Scan# 1441
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 97 Resp: 215499

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	66.5	42.3	87.9
61	0.0	0.0	0.0

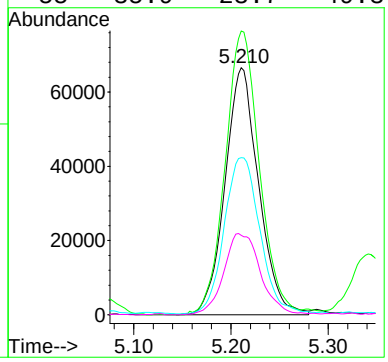


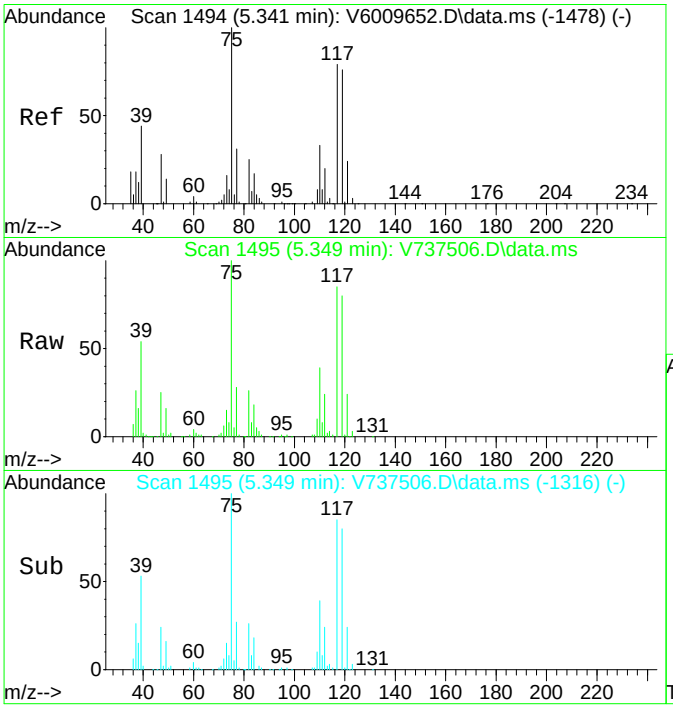


#33
Cyclohexane
Concen: 11.89 ppb
RT: 5.210 min Scan# 1445
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 56 Resp: 161177

Ion	Ratio	Lower	Upper
56	100		
84	116.5	44.2	91.8#
41	67.0	37.9	78.7
55	35.9	23.7	49.3

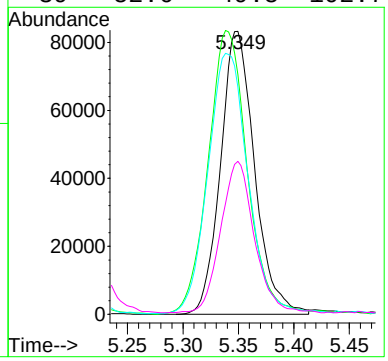


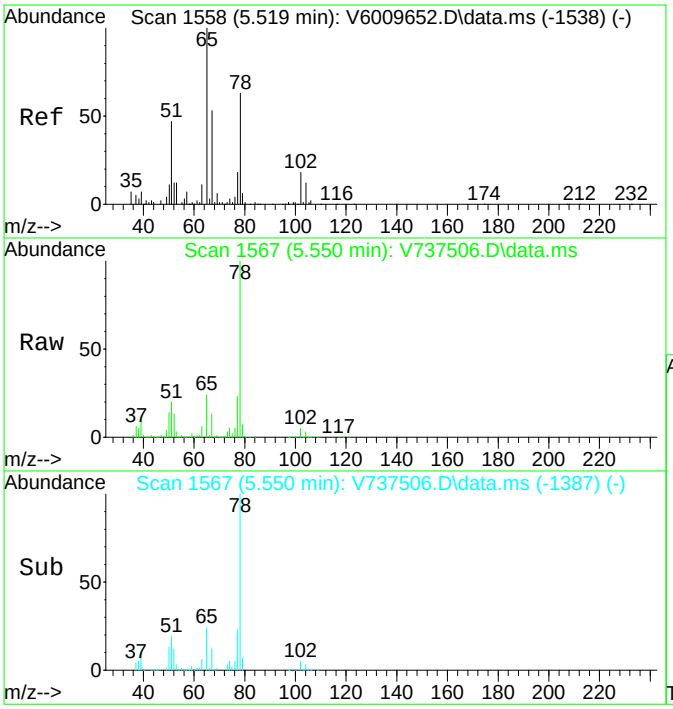


#34
1,1-Dichloropropylene
Concen: 11.24 ppb
RT: 5.349 min Scan# 1495
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 75 Resp: 178172

Ion	Ratio	Lower	Upper
75	100		
117	114.8	65.3	135.5
119	108.4	62.6	130.0
39	52.6	49.5	102.7

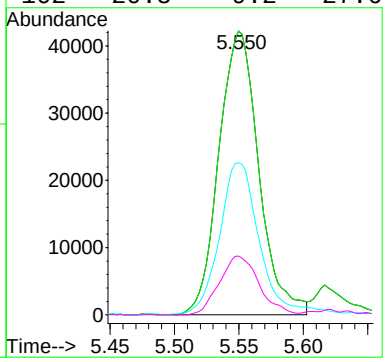


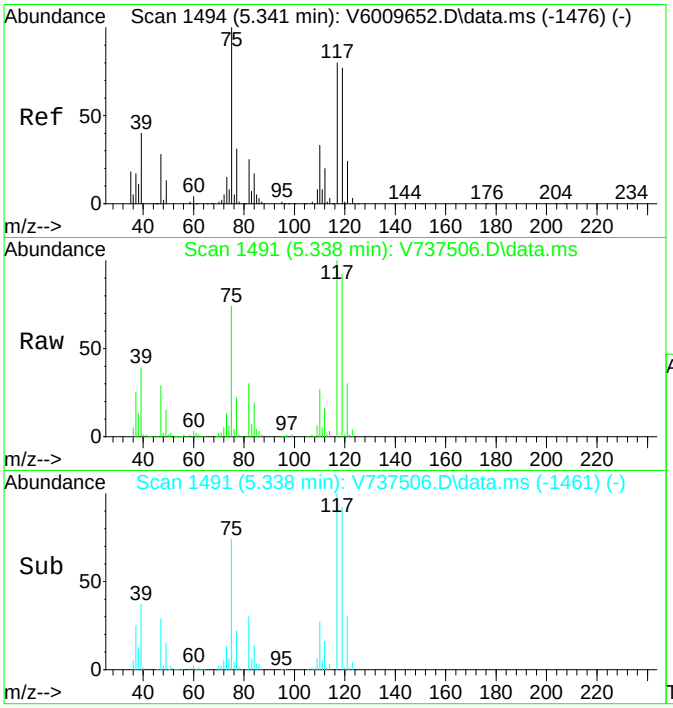


#35
d4-1,2-Dichloroethane (SURR)
Concen: 10.56 ppb
RT: 5.550 min Scan# 1567
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 65 Resp: 90924

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	53.9	33.0	68.6
102	20.5	9.2	27.6

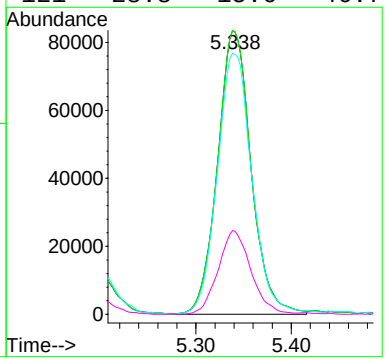


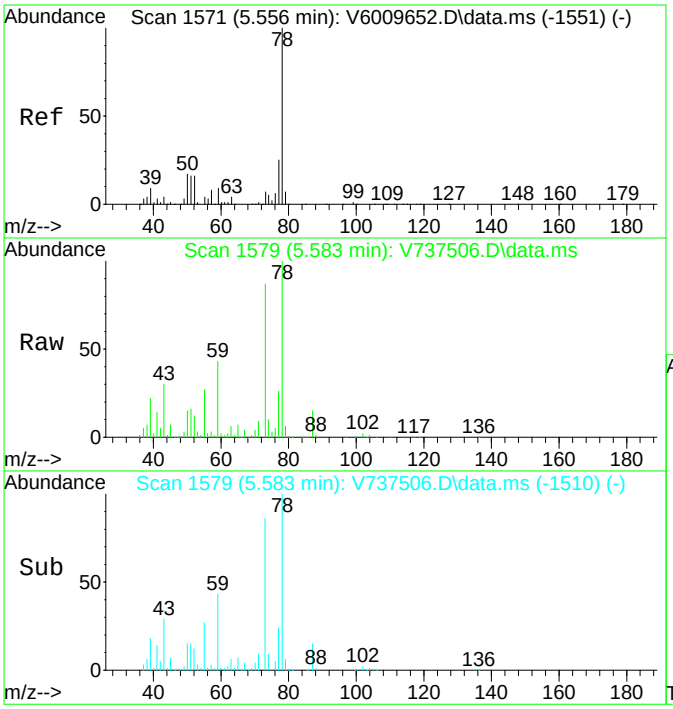


#36
Carbon Tetrachloride
Concen: 11.34 ppb
RT: 5.338 min Scan# 1491
Delta R.T. -0.006 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:117 Resp: 204482

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	94.4	62.3	129.5
121	28.8	15.6	46.7

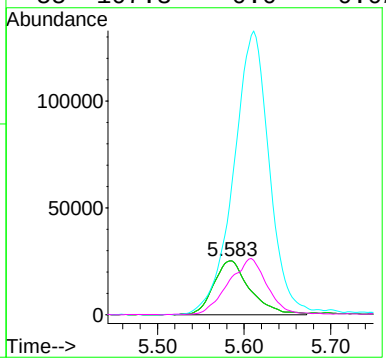


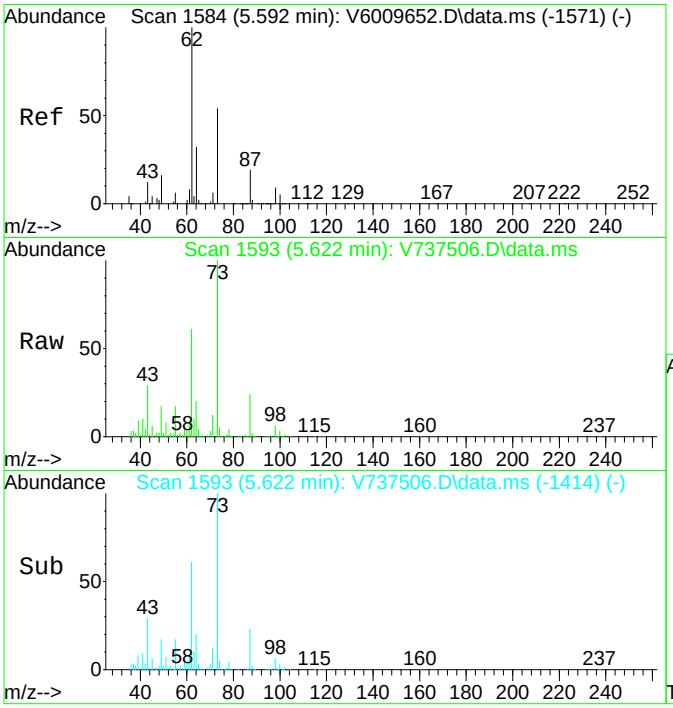


#37
tert-Amyl alcohol (TAA)
Concen: 118.07 ppb
RT: 5.583 min Scan# 1579
Delta R.T. -0.008 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 59 Resp: 74408

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
73	513.0	22.9	68.5#
55	107.3	0.0	0.0#

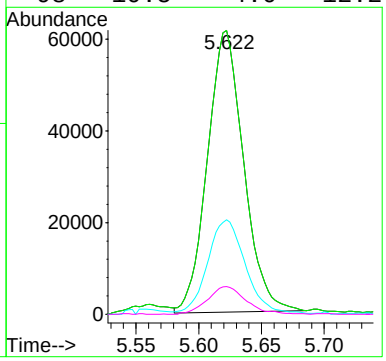


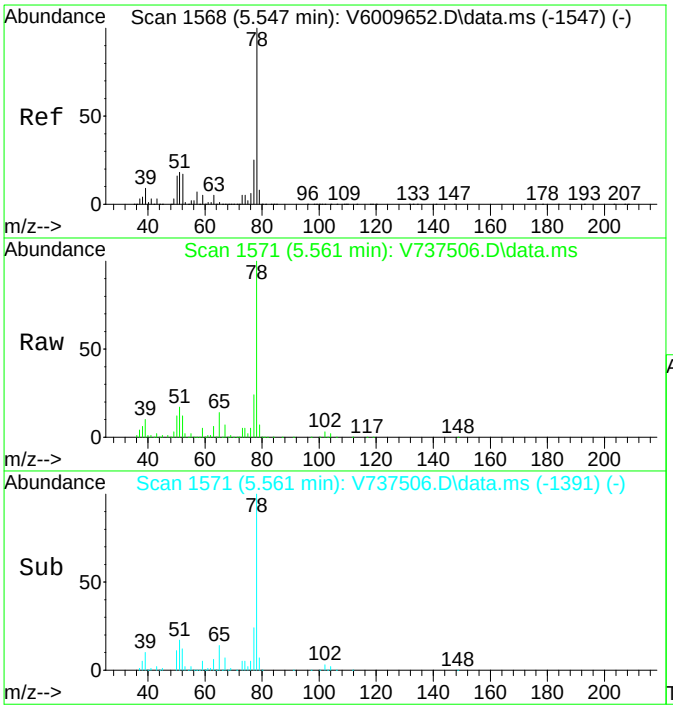


#38
1,2-Dichloroethane
Concen: 11.19 ppb
RT: 5.622 min Scan# 1593
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 62 Resp: 123308

Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	34.8	15.2	45.6
98	10.5	4.0	12.2

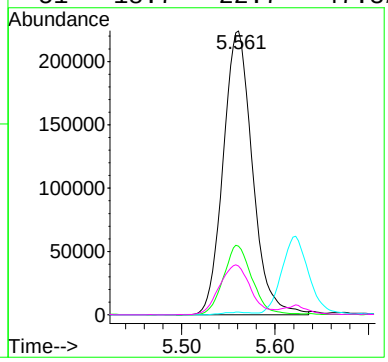


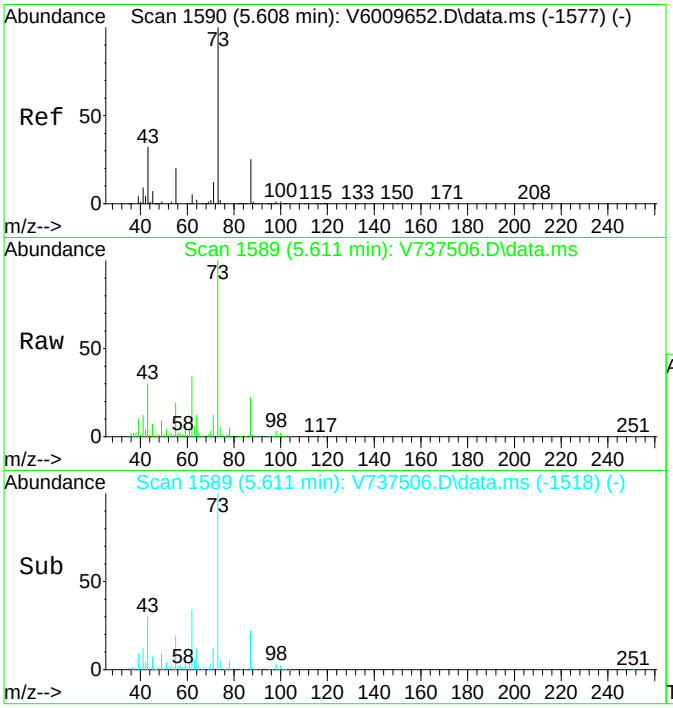


#39
Benzene
Concen: 11.38 ppb
RT: 5.561 min Scan# 1571
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 78 Resp: 488071

Ion	Ratio	Lower	Upper
78	100		
77	23.9	14.7	30.5
62	0.9	19.2	39.8#
51	18.7	22.7	47.3#

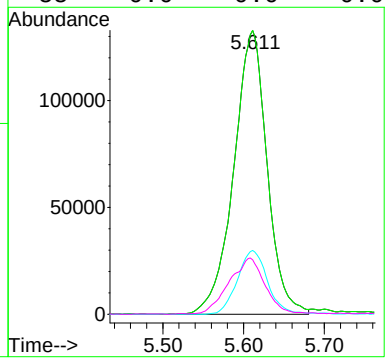


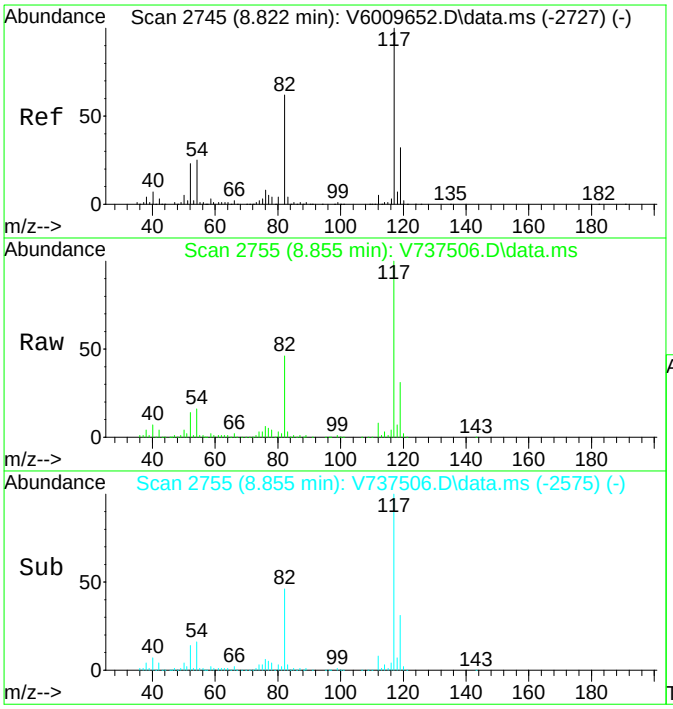


#40
tert-Amyl methyl ether (TAME)
Concen: 11.97 ppb
RT: 5.611 min Scan# 1589
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 73 Resp: 381735

Ion	Ratio	Lower	Upper
73	100		
73	100.0	79.6	119.4
87	20.3	11.9	35.5
55	0.0	0.0	0.0

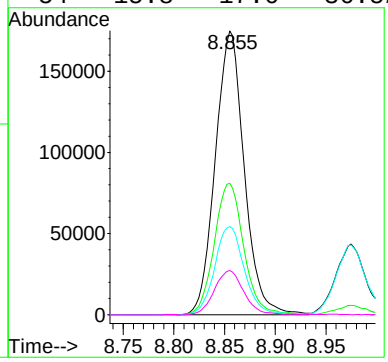


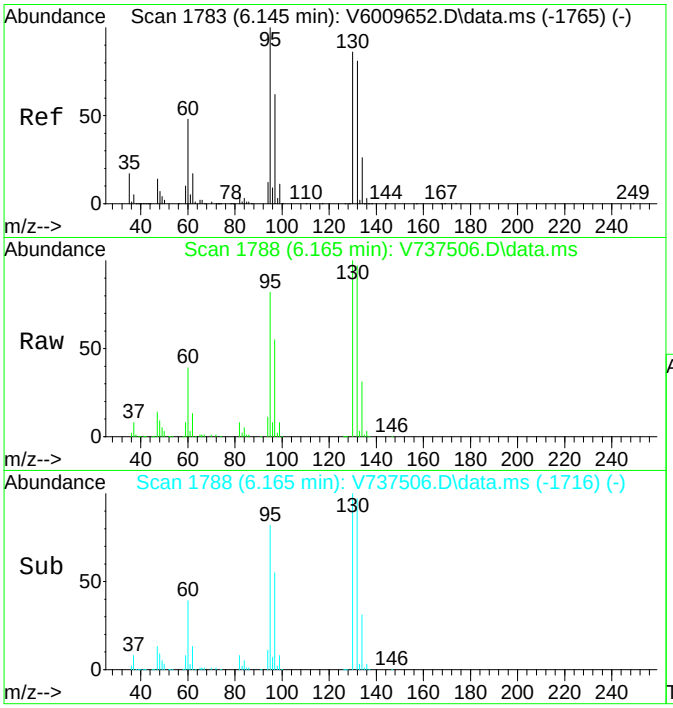


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:117 Resp: 347000

Ion	Ratio	Lower	Upper
117	100		
82	47.3	35.9	74.7
119	32.0	20.8	43.2
54	15.8	17.6	36.5#

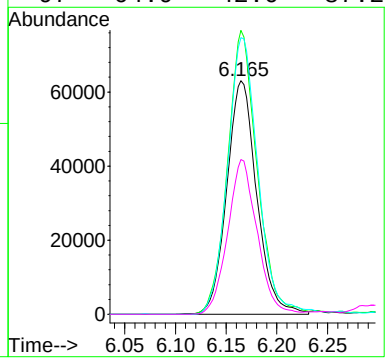


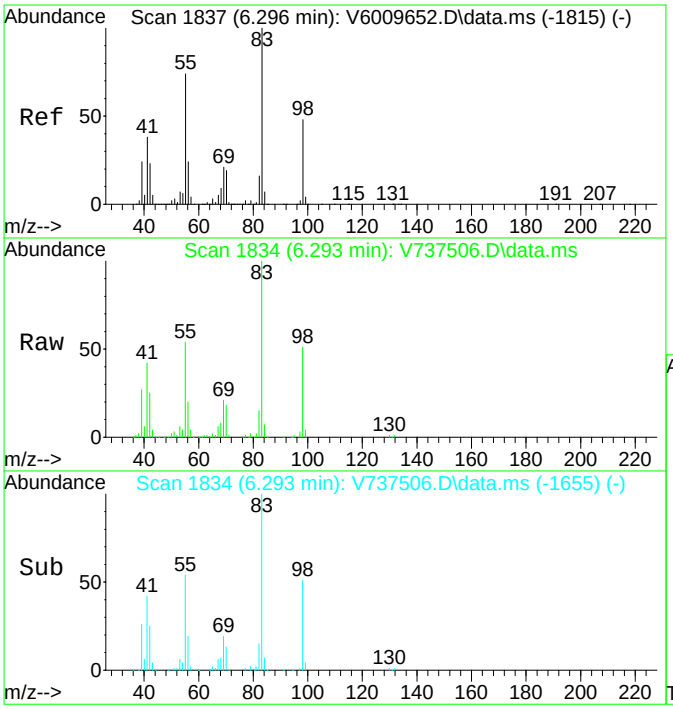


#42
Trichloroethylene
Concen: 10.45 ppb
RT: 6.165 min Scan# 1788
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 95 Resp: 129597

Ion	Ratio	Lower	Upper
95	100		
130	119.8	61.1	126.9
132	120.6	62.0	128.8
97	64.9	42.0	87.2

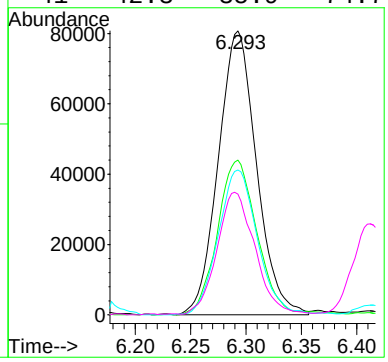


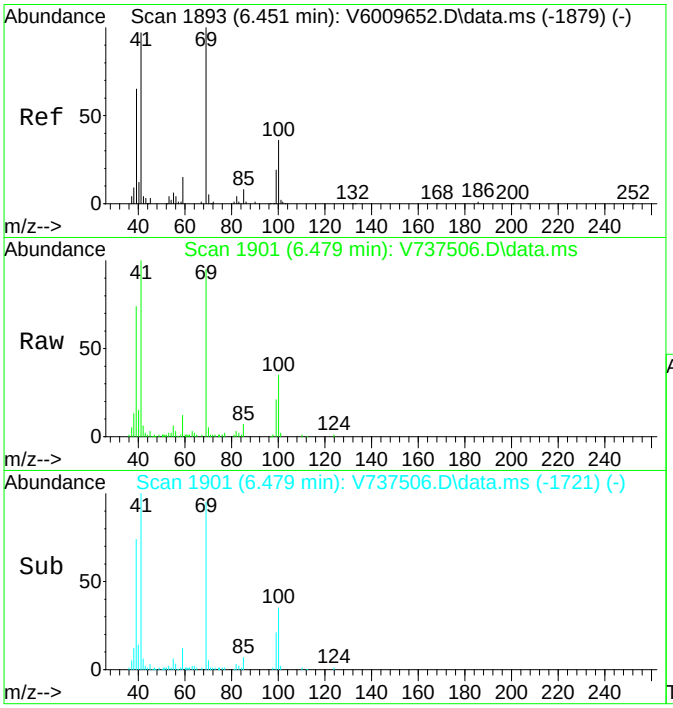


#43
Methyl Cyclohexane
Concen: 11.33 ppb
RT: 6.293 min Scan# 1834
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 83 Resp: 193812

Ion	Ratio	Lower	Upper
83	100		
55	55.8	65.5	136.1#
98	52.4	31.0	64.4
41	42.3	35.9	74.7

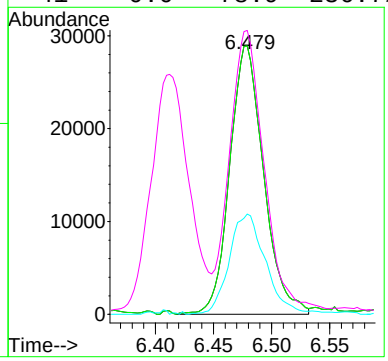


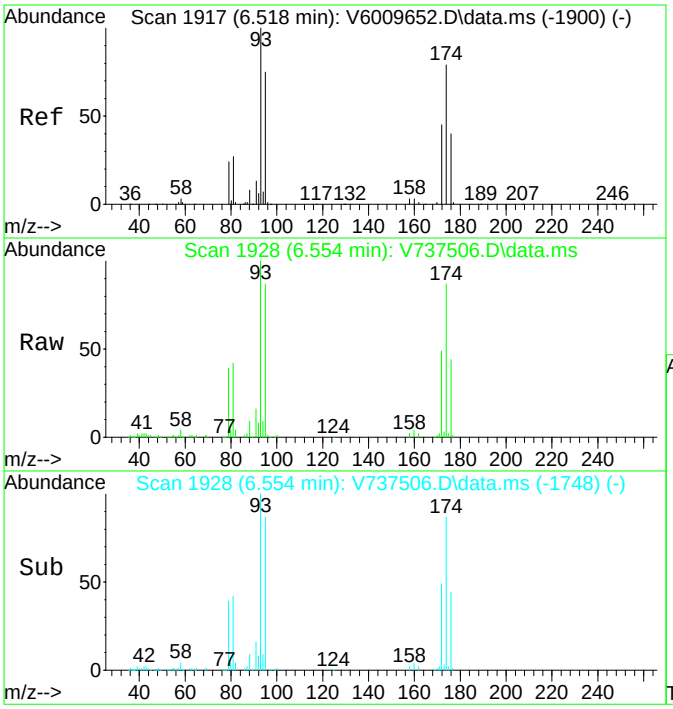


#44
Methyl Methacrylate
Concen: 10.76 ppb
RT: 6.479 min Scan# 1901
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 69 Resp: 58821

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	39.6	0.0	0.0#
41	0.0	78.9	236.7#

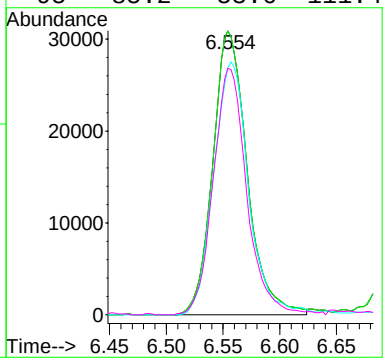


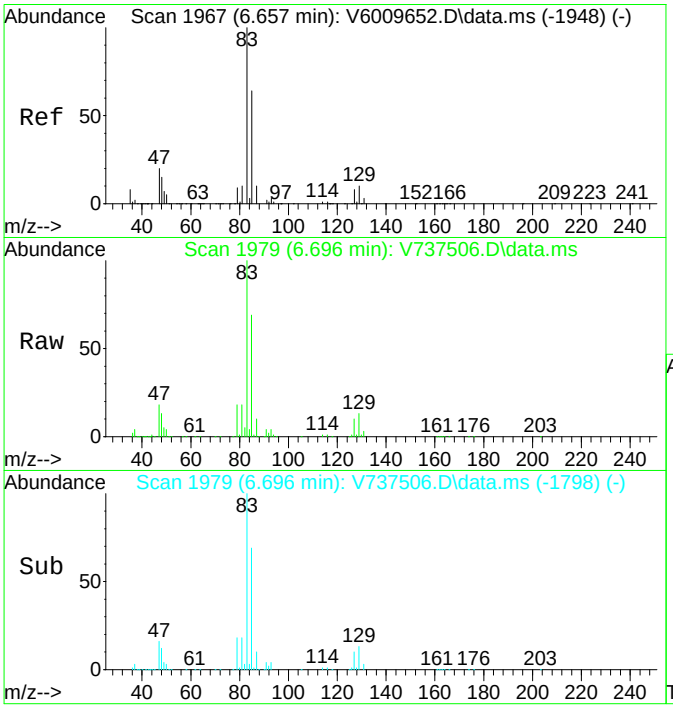


#45
Dibromomethane
Concen: 10.23 ppb
RT: 6.554 min Scan# 1928
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 93 Resp: 65114

Ion	Ratio	Lower	Upper
93	100		
93	100.0	65.0	135.0
174	89.9	60.5	125.6
95	85.2	53.6	111.4

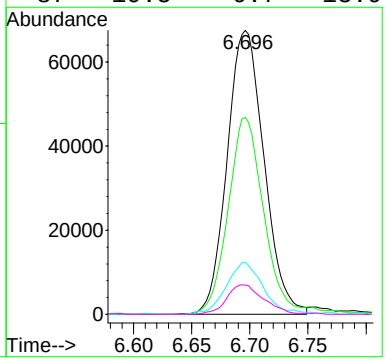


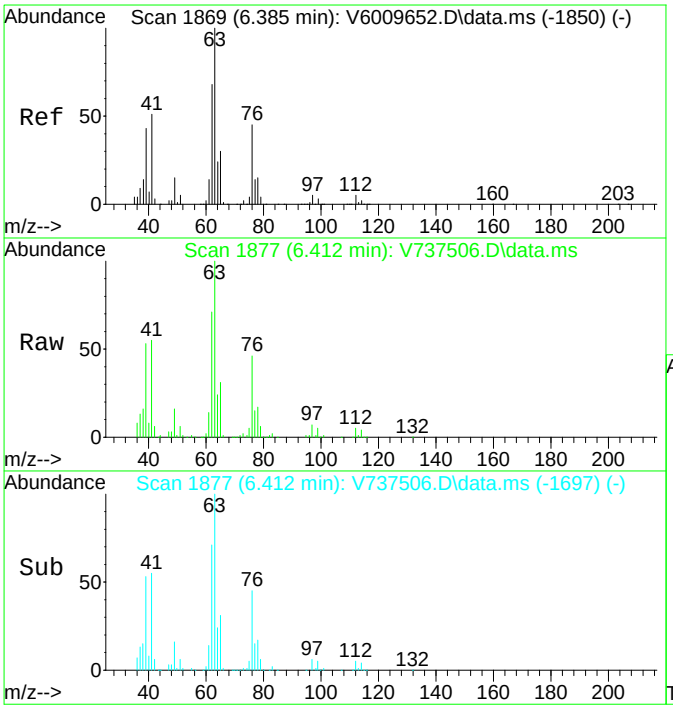


#46
Bromodichloromethane
Concen: 10.57 ppb
RT: 6.696 min Scan# 1979
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 83 Resp: 149202

Ion	Ratio	Lower	Upper
83	100		
85	66.1	41.0	85.0
47	18.5	15.9	33.1
87	10.5	6.7	13.9

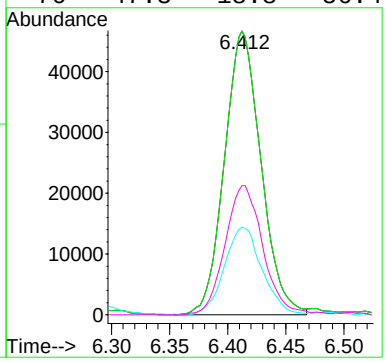


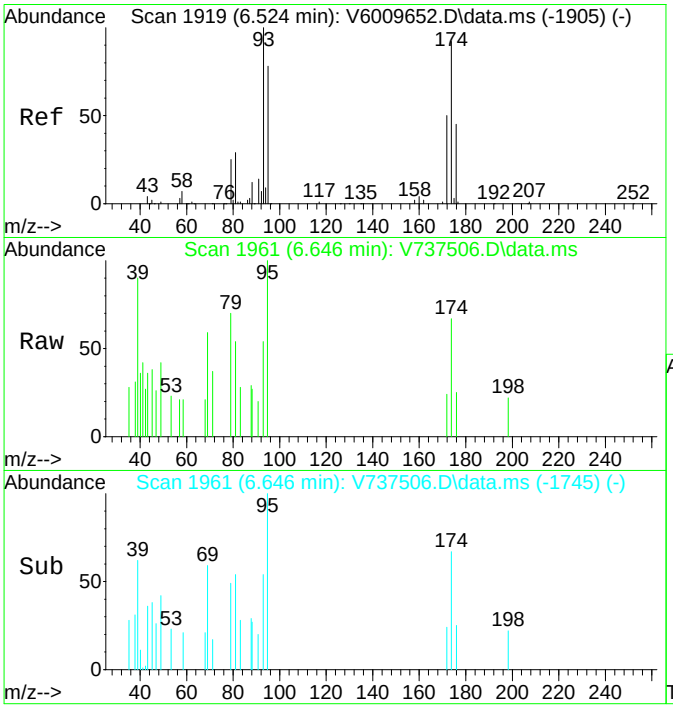


#47
1,2-Dichloropropane
Concen: 10.22 ppb
RT: 6.412 min Scan# 1877
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 63 Resp: 102069

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	31.8	14.5	43.6
76	47.3	18.8	56.4

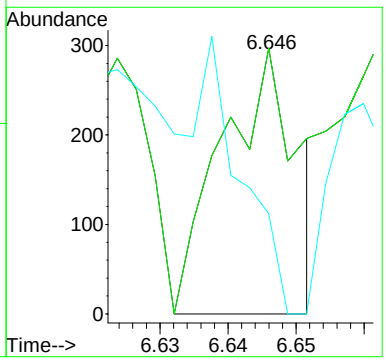


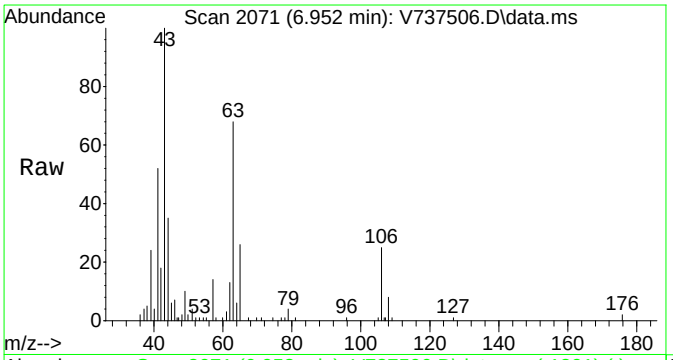


#48
1,4-Dioxane
Concen: 5.92 ppb
RT: 6.646 min Scan# 1961
Delta R.T. 0.100 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 88 Resp: 225

Ion	Ratio	Lower	Upper
88	100		
88	100.0	80.0	120.0
58	60.9	30.8	92.3

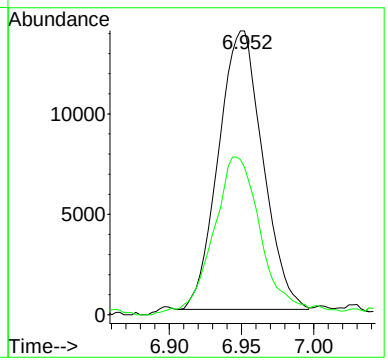


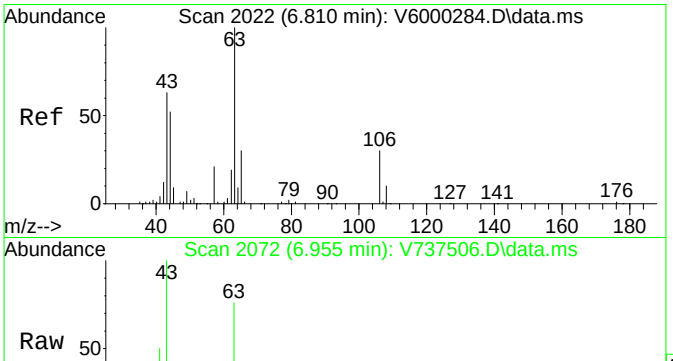


#49
2-Nitropropane
Concen: 11.40 ppb
RT: 6.952 min Scan# 2071
Delta R.T. 0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 43 Resp: 29581

Ion	Ratio	Lower	Upper
43	100		
41	60.7	29.7	44.5#

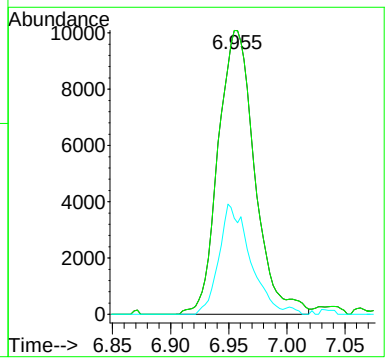


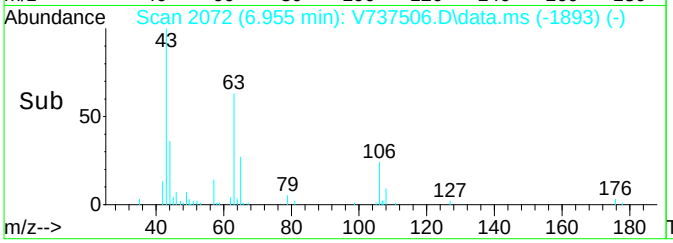


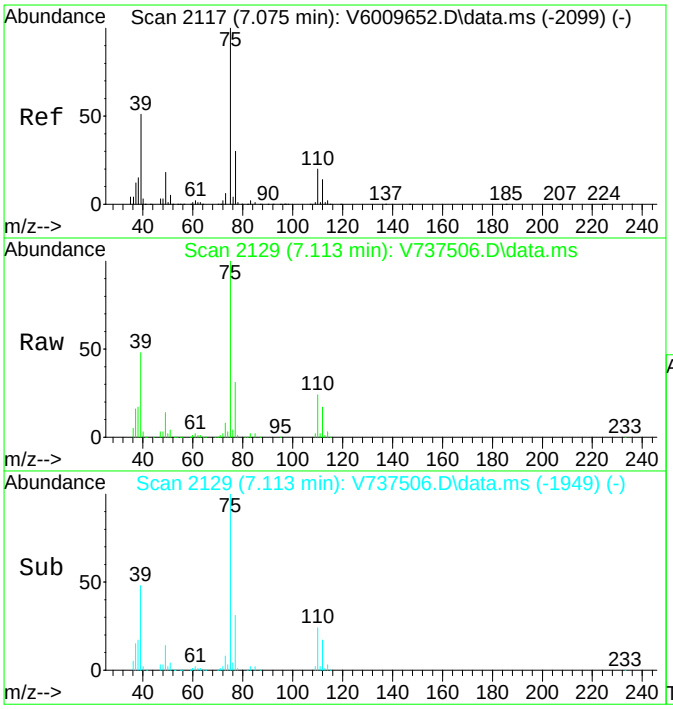
#50
2-Chloroethyl vinyl ether
Concen: 9.62 ppb
RT: 6.955 min Scan# 2072
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 63 Resp: 22038

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
106	32.9	12.0	36.1



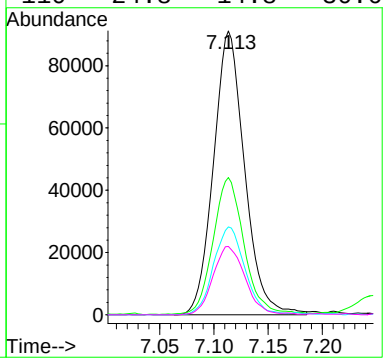


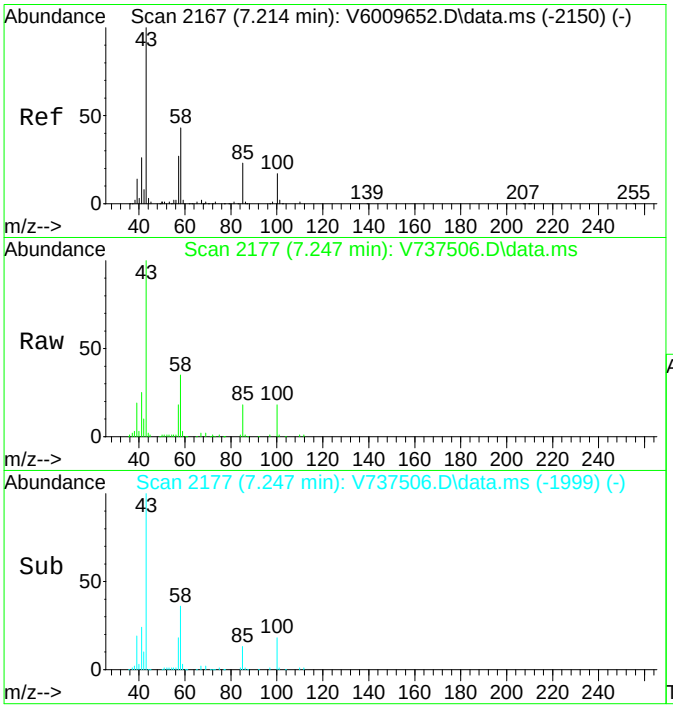


#51
cis-1,3-Dichloropropene
Concen: 11.32 ppb
RT: 7.113 min Scan# 2129
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 75 Resp: 182365

Ion	Ratio	Lower	Upper
75	100		
39	48.1	41.8	86.8
77	31.2	20.1	41.7
110	24.8	14.8	30.6

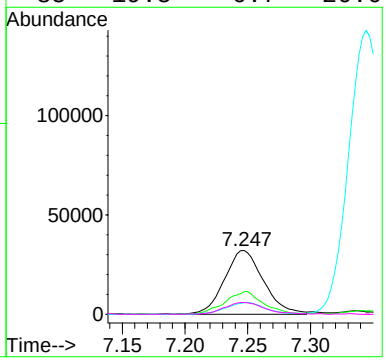


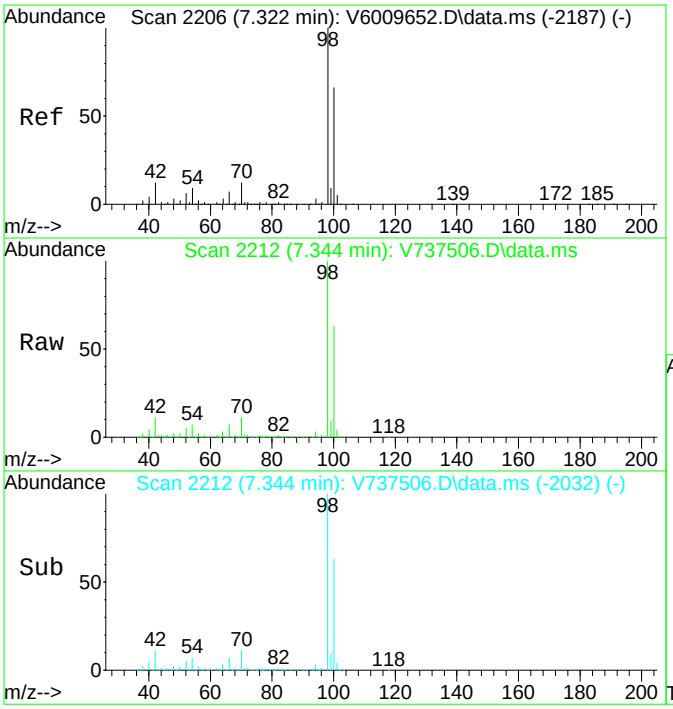


#52
4-Methyl-2-Pentanone
Concen: 11.96 ppb
RT: 7.247 min Scan# 2177
Delta R.T. -0.006 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 43 Resp: 69698

Ion	Ratio	Lower	Upper
43	100		
58	35.2	23.8	49.4
100	18.5	5.8	17.3#
85	19.5	6.7	20.0

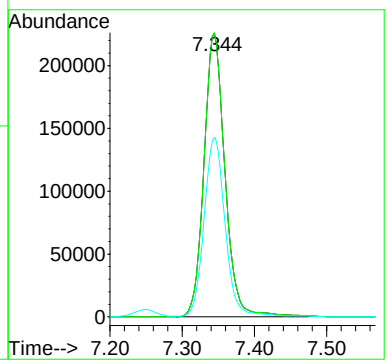


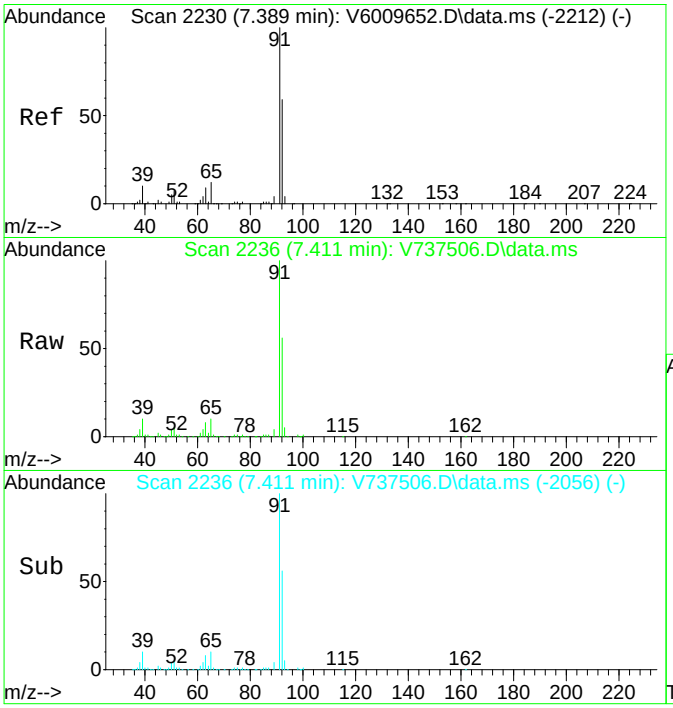


#53
Toluene-d8 (SURR)
Concen: 10.24 ppb
RT: 7.344 min Scan# 2212
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 98 Resp: 457490

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	62.8	43.4	90.2

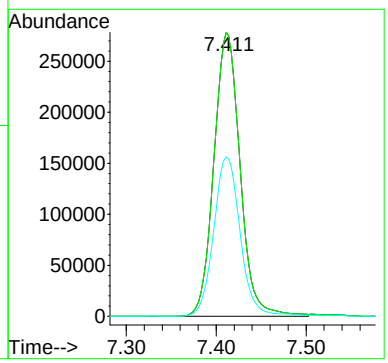


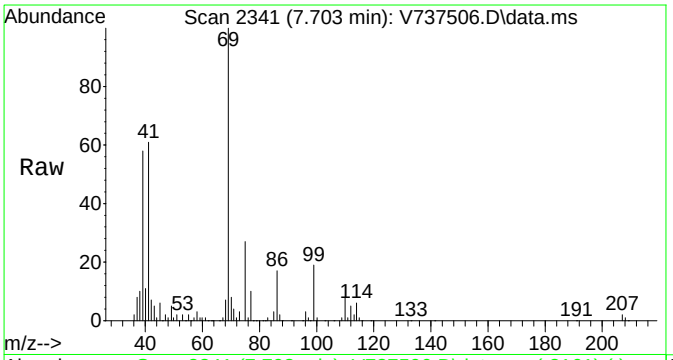


#54
Toluene
Concen: 10.98 ppb
RT: 7.411 min Scan# 2236
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 562367

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	56.9	38.4	79.7

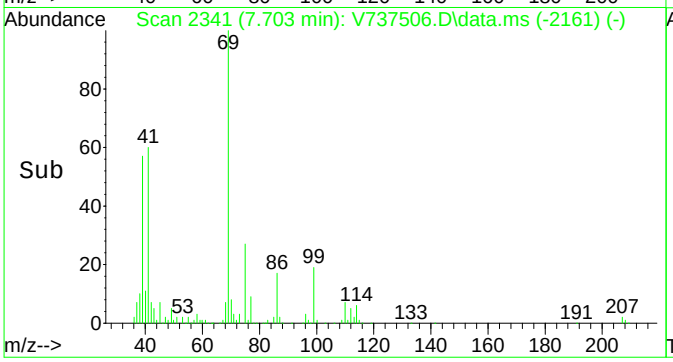


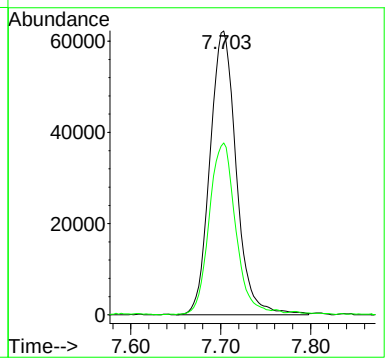


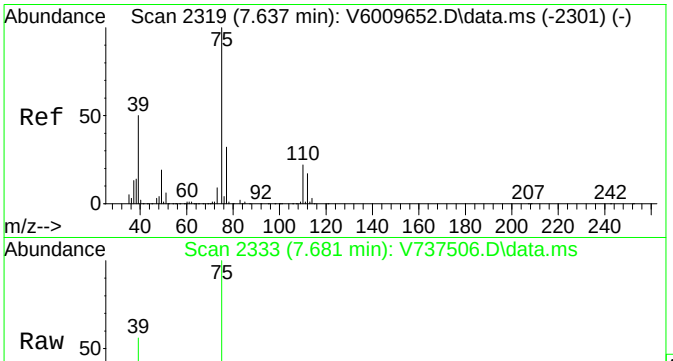
#55
Ethyl Methacrylate
Concen: 11.26 ppb
RT: 7.703 min Scan# 2341
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 69 Resp: 126777

Ion	Ratio	Lower	Upper
69	100		
41	60.9	125.7	188.5#



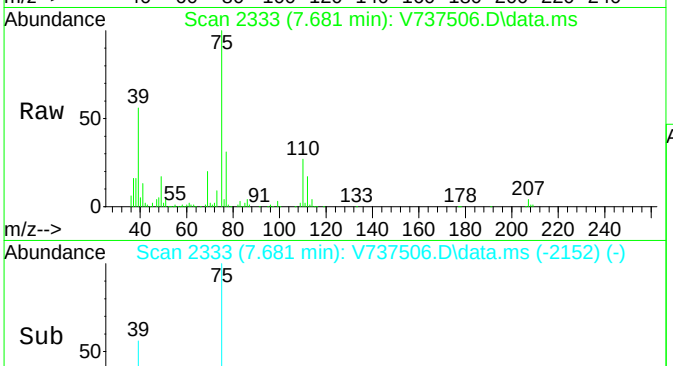


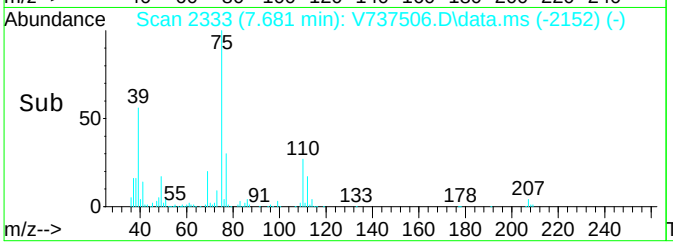


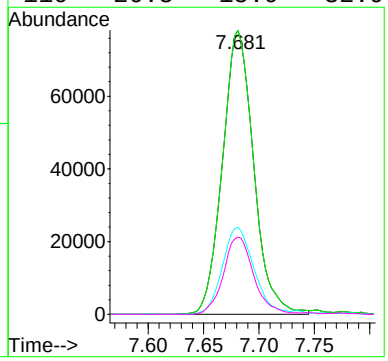
#56
trans-1,3-Dichloropropene
Concen: 11.09 ppb
RT: 7.681 min Scan# 2333
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

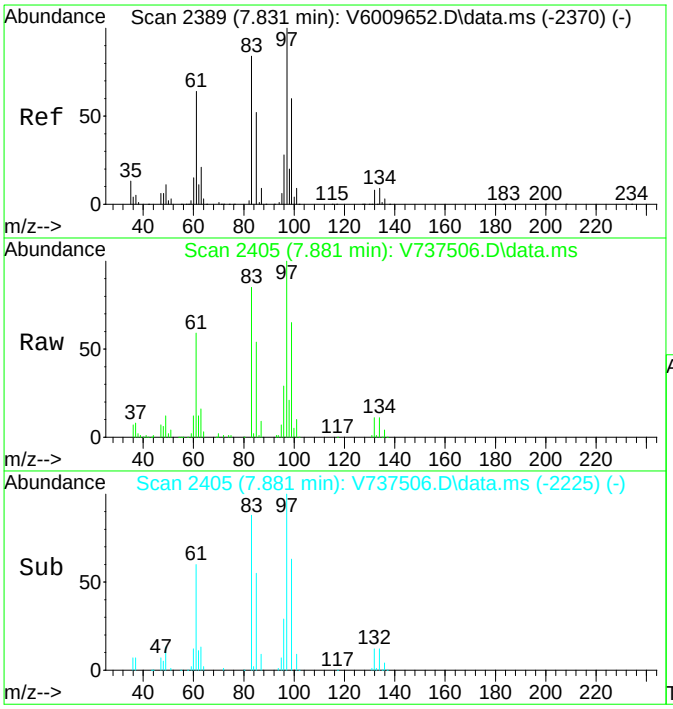
Tgt Ion: 75 Resp: 152763

Ion	Ratio	Lower	Upper
75	100		
75	100.0	65.0	135.0
77	30.9	20.3	42.3
110	26.5	15.9	32.9





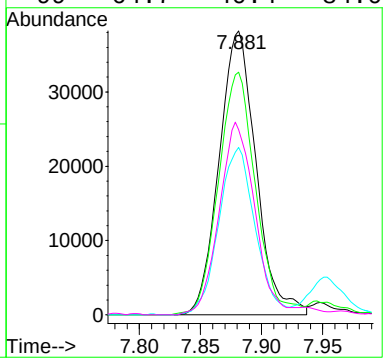


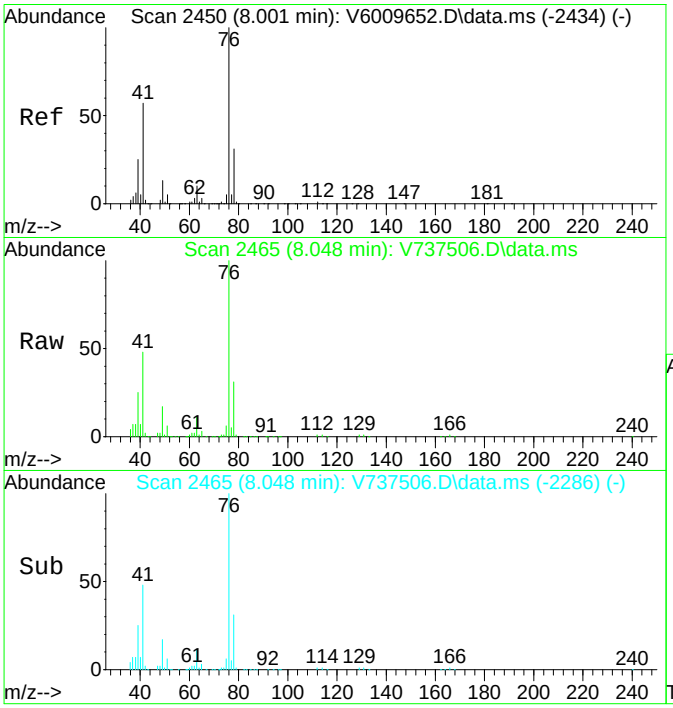


#57
1,1,2-Trichloroethane
Concen: 10.20 ppb
RT: 7.881 min Scan# 2405
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 97 Resp: 80448

Ion	Ratio	Lower	Upper
97	100		
83	85.9	54.1	112.5
61	57.9	44.3	91.9
99	64.7	40.4	84.0

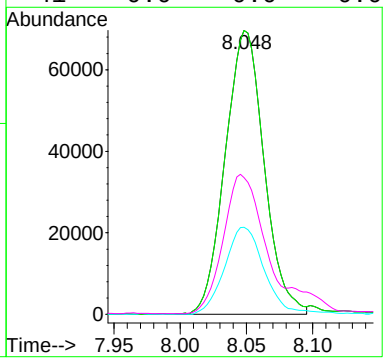


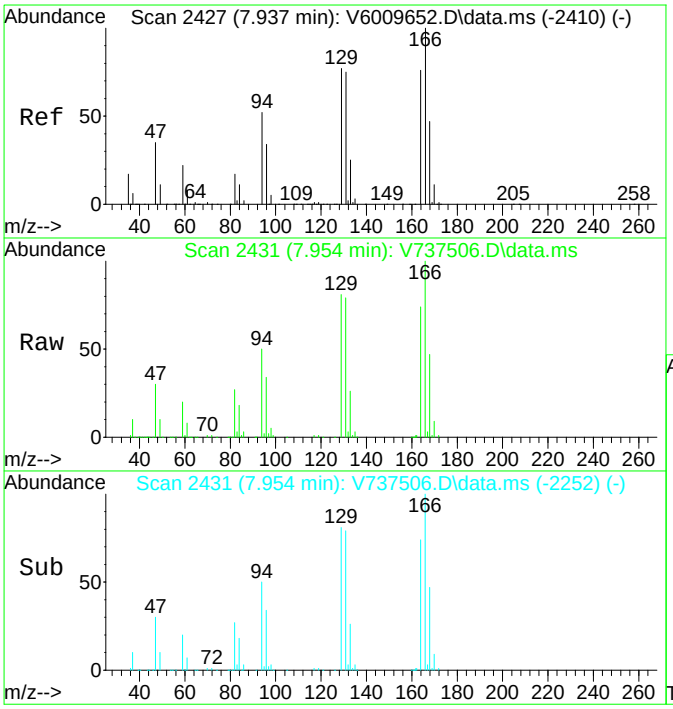


#58
1,3-Dichloropropane
Concen: 10.73 ppb
RT: 8.048 min Scan# 2465
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 76 Resp: 142547

Ion	Ratio	Lower	Upper
76	100		
76	100.0	80.0	120.0
78	31.4	16.4	49.2
41	0.0	0.0	0.0

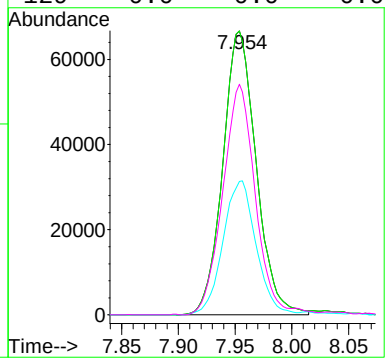


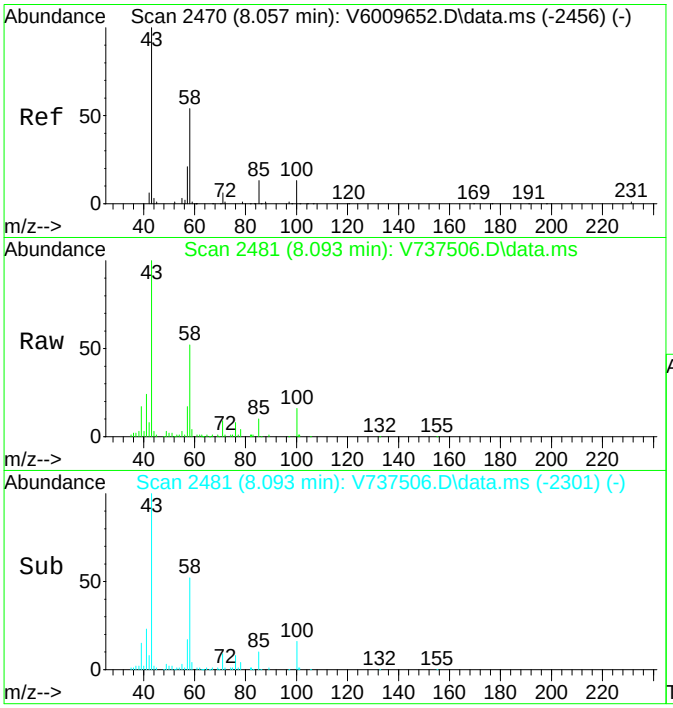


#59
Tetrachloroethylene
Concen: 9.05 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:166 Resp: 136777

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	46.6	0.0	0.0#
129	0.0	0.0	0.0

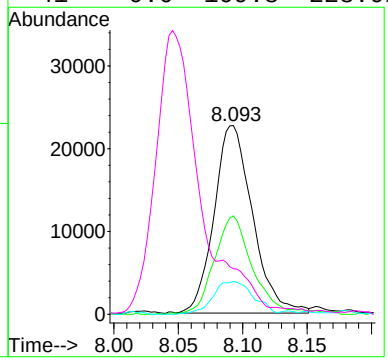


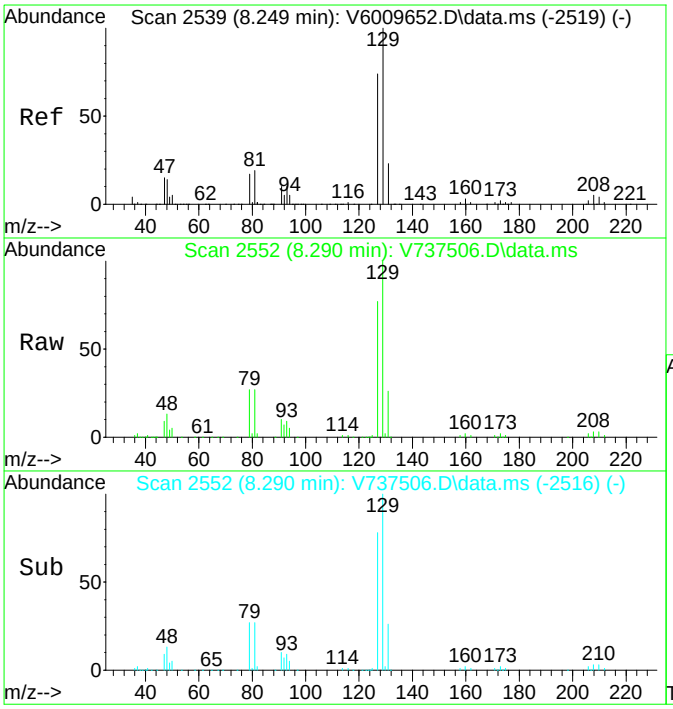


#60
2-Hexanone
Concen: 11.29 ppb
RT: 8.093 min Scan# 2481
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 43 Resp: 47106

Ion	Ratio	Lower	Upper
43	100		
58	51.0	33.0	68.6
57	18.5	11.1	23.1
41	0.0	109.8	228.0#

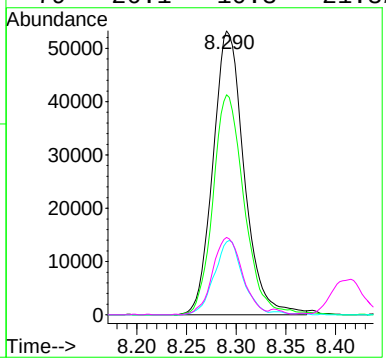


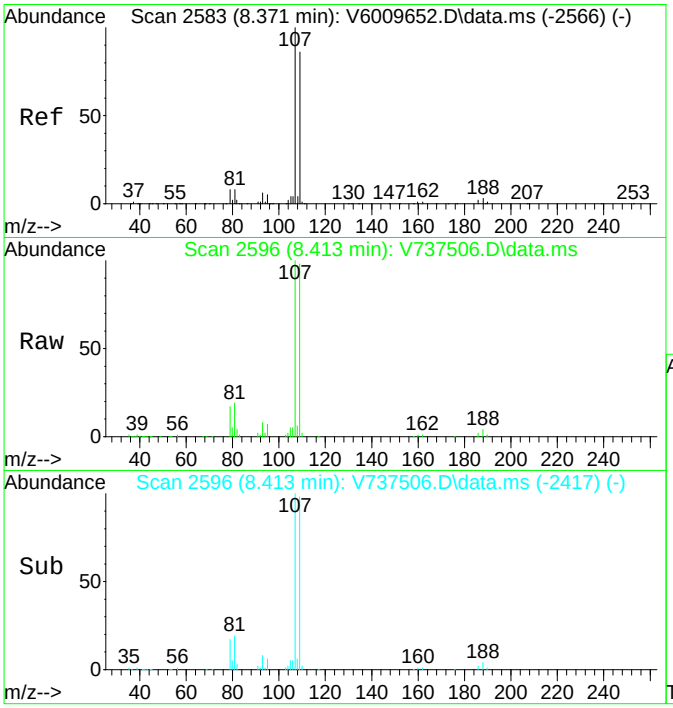


#61
Dibromochloromethane
Concen: 11.43 ppb
RT: 8.290 min Scan# 2552
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:129 Resp: 116450

Ion	Ratio	Lower	Upper
129	100		
127	77.6	49.8	103.4
131	24.0	16.1	33.5
79	26.1	10.3	21.3#

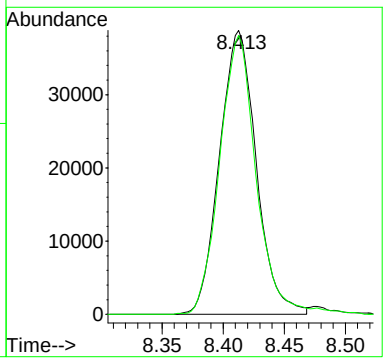


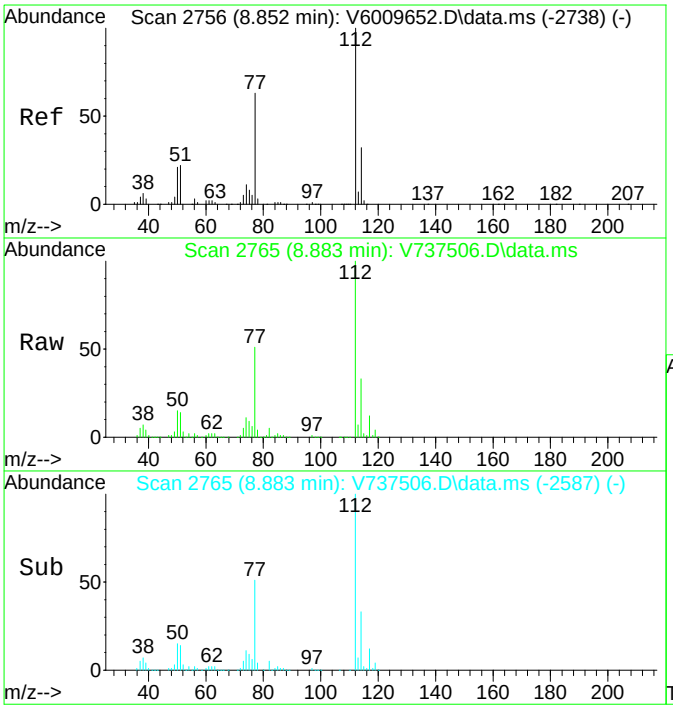


#62
1,2-Dibromoethane
Concen: 10.13 ppb
RT: 8.413 min Scan# 2596
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:107 Resp: 81351

Ion	Ratio	Lower	Upper
107	100		
109	96.4	62.0	128.8

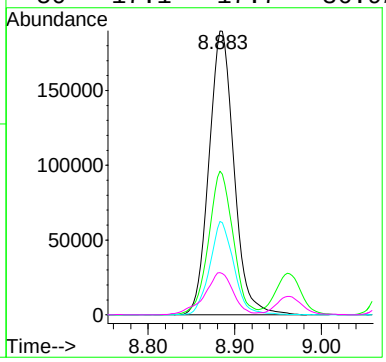


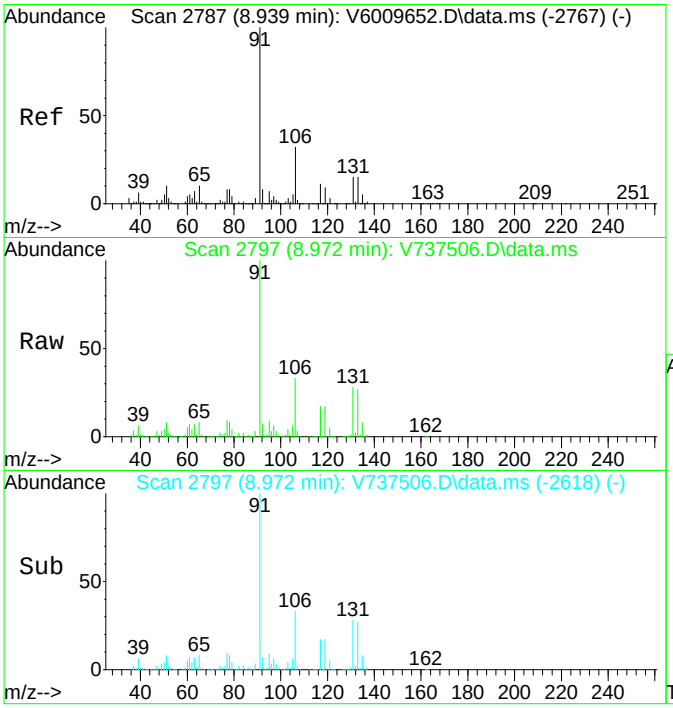


#63
Chlorobenzene
Concen: 10.45 ppb
RT: 8.883 min Scan# 2765
Delta R.T. -0.006 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:112 Resp: 381201

Ion	Ratio	Lower	Upper
112	100		
77	49.7	38.9	80.7
114	31.7	20.5	42.7
50	17.1	17.7	36.9#

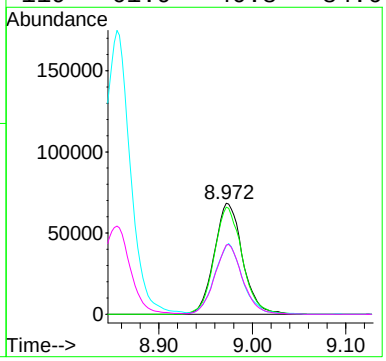


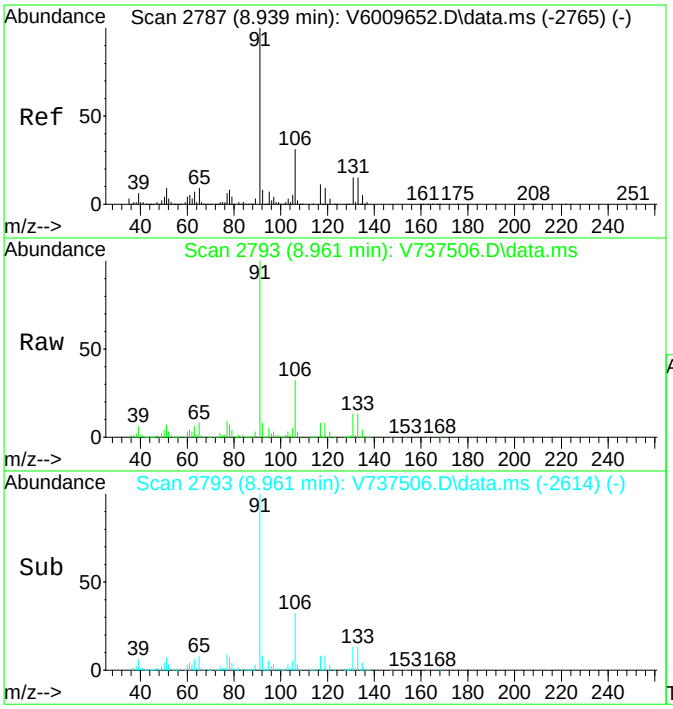


#64
1,1,1,2-tetrachloroethane
Concen: 10.58 ppb
RT: 8.972 min Scan# 2797
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:131 Resp: 144452

Ion	Ratio	Lower	Upper
131	100		
133	95.8	61.5	127.7
117	62.6	42.6	88.6
119	61.9	40.8	84.6

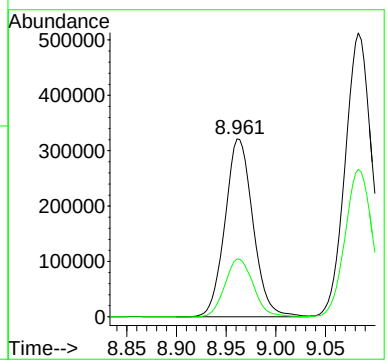


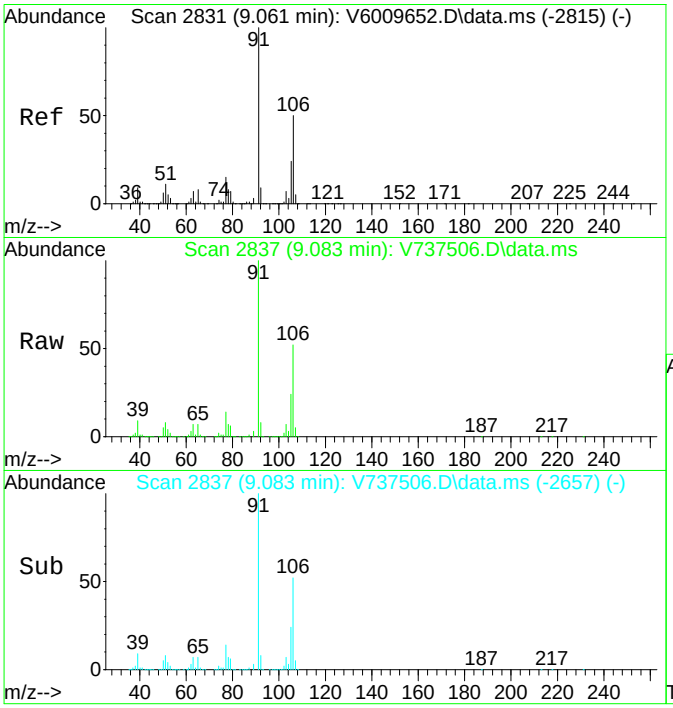


#65
Ethyl Benzene
Concen: 10.79 ppb
RT: 8.961 min Scan# 2793
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 631482

Ion	Ratio	Lower	Upper
91	100		
106	33.0	20.0	41.6

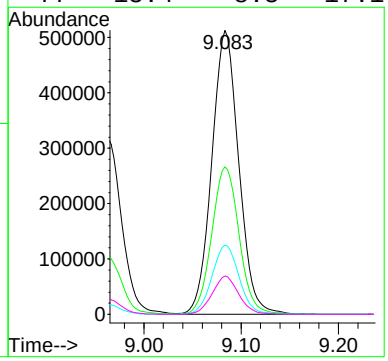


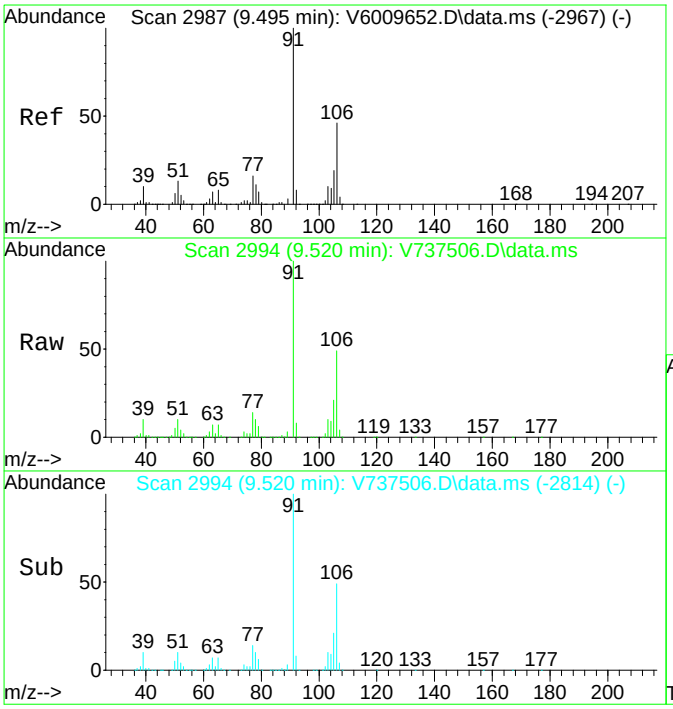


#66
p- & m-Xylenes
Concen: 21.56 ppb
RT: 9.083 min Scan# 2837
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 986330

Ion	Ratio	Lower	Upper
91	100		
106	52.9	31.3	65.1
105	24.7	14.2	29.4
77	13.4	8.3	17.1

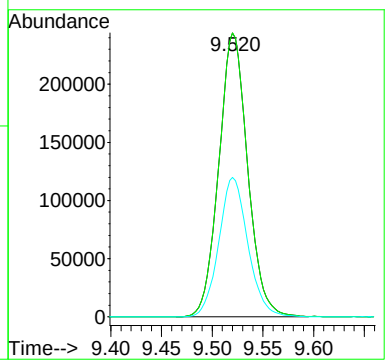


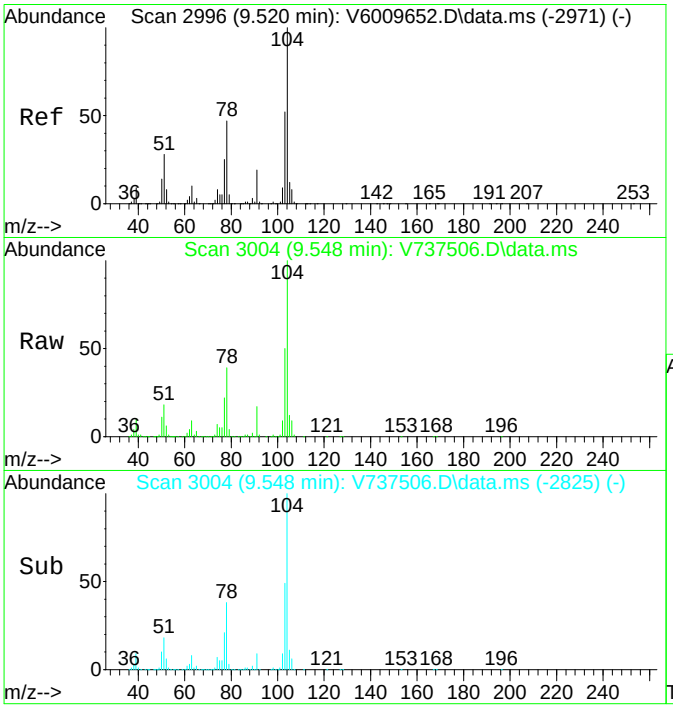


#67
o-Xylene
Concen: 11.04 ppb
RT: 9.520 min Scan# 2994
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 482743

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	49.7	22.7	68.1

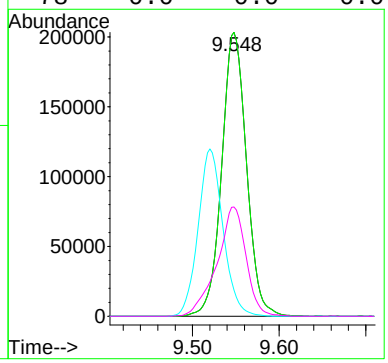


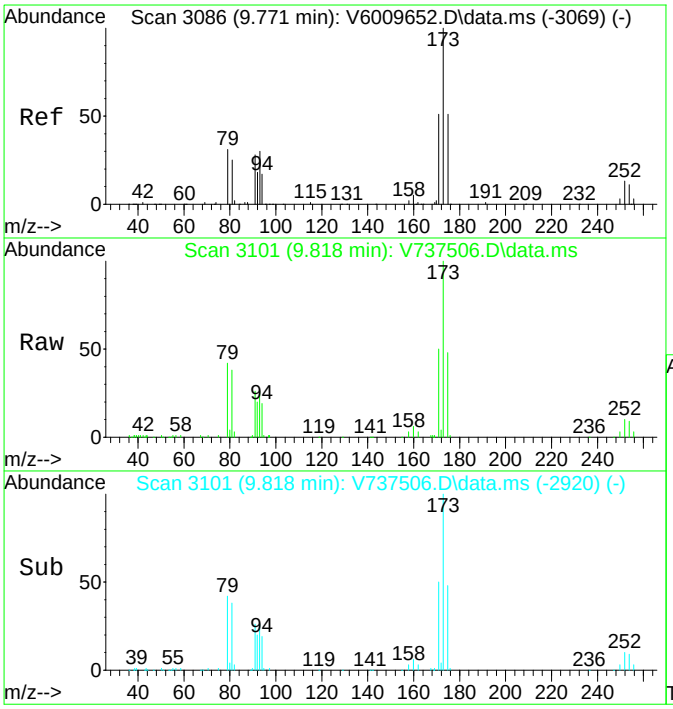


#68
Styrene
Concen: 10.92 ppb
RT: 9.548 min Scan# 3004
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:104 Resp: 405812

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
106	0.0	0.0	0.0
78	0.0	0.0	0.0

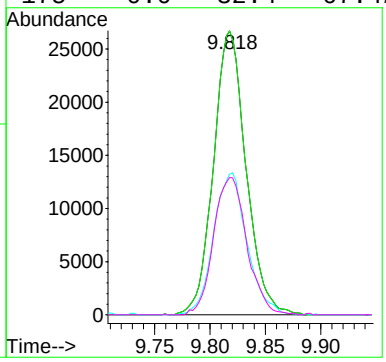


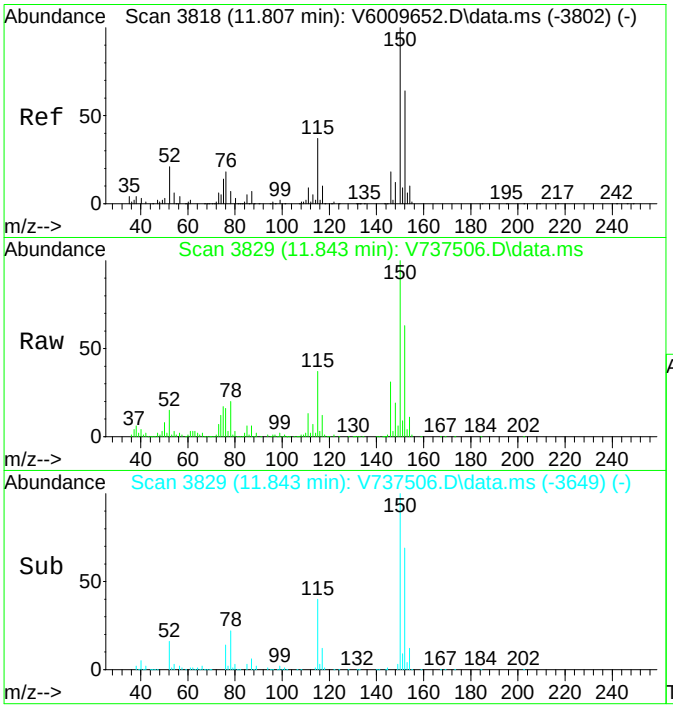


#69
Bromoform
Concen: 10.12 ppb
RT: 9.818 min Scan# 3101
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:173 Resp: 54544

Ion	Ratio	Lower	Upper
173	100		
173	100.0	80.0	120.0
171	0.0	0.0	0.0
175	0.0	32.4	67.4#

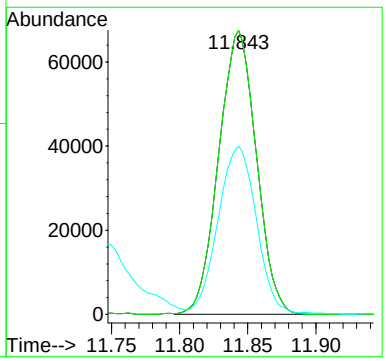


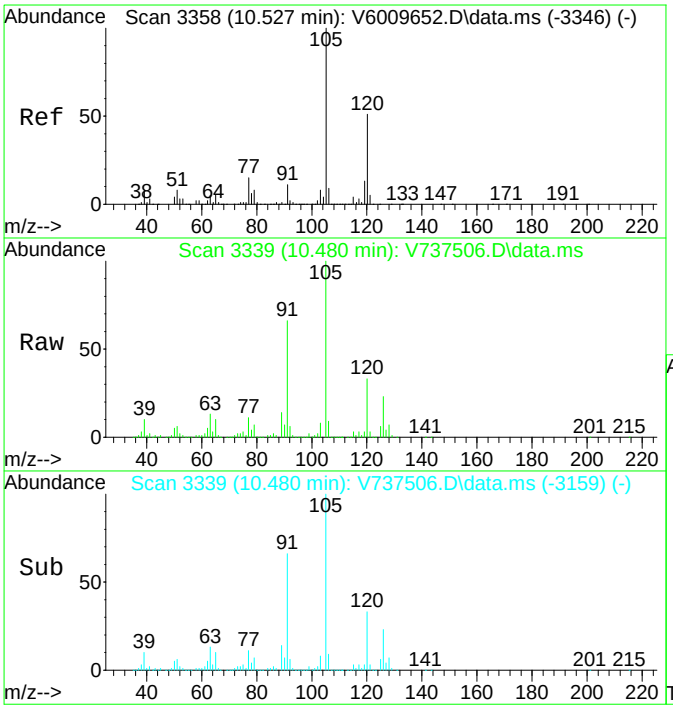


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:152 Resp: 129630

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	60.7	33.7	101.0

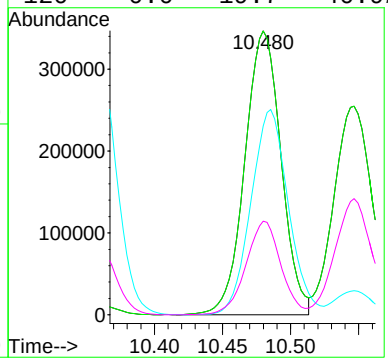


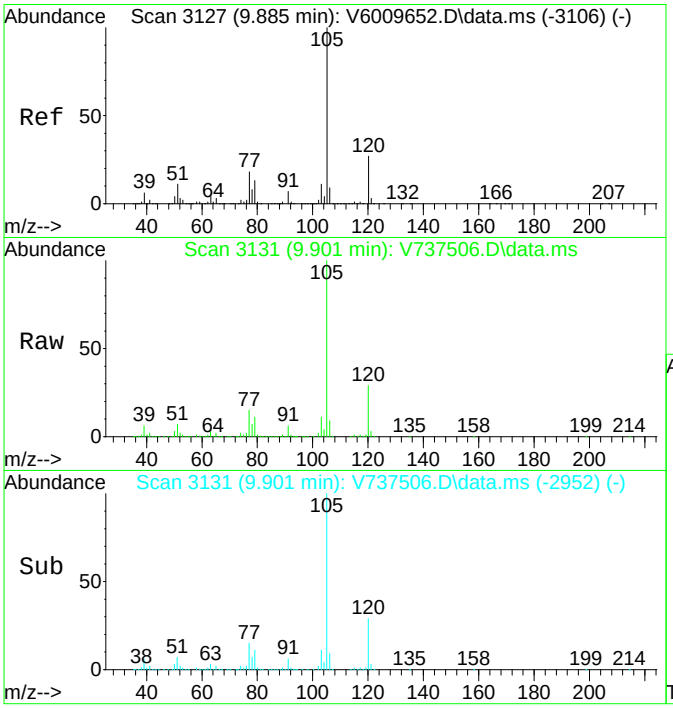


#71
p-Ethyltoluene
Concen: 11.13 ppb
RT: 10.480 min Scan# 3339
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:105 Resp: 642072

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
91	0.0	0.0	0.0
120	0.0	19.7	40.9#

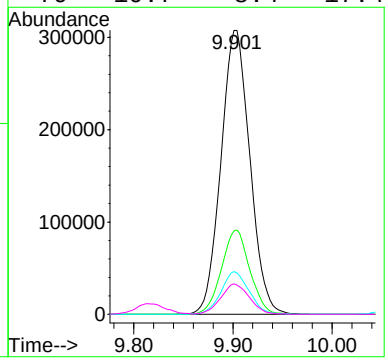


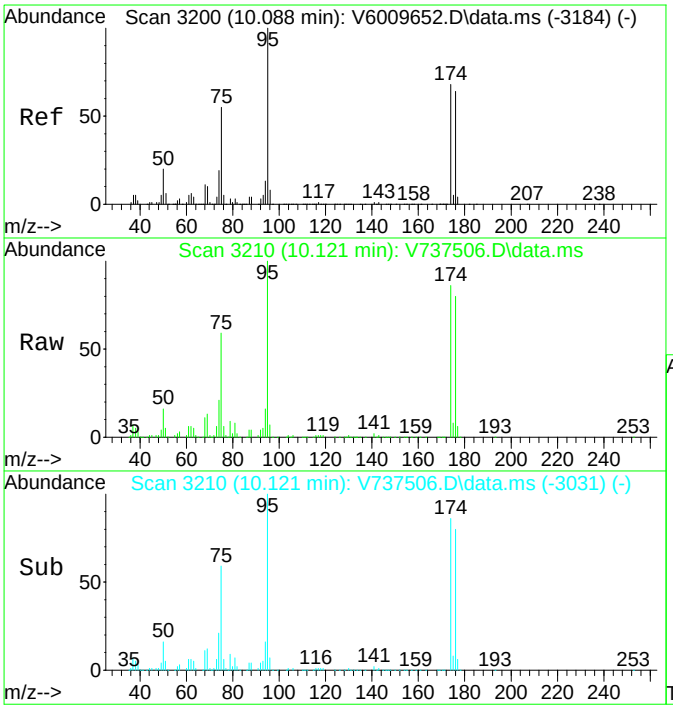


#72
Isopropylbenzene
Concen: 10.29 ppb
RT: 9.901 min Scan# 3131
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:105 Resp: 622447

Ion	Ratio	Lower	Upper
105	100		
120	29.1	17.6	36.6
77	14.6	10.1	20.9
79	10.7	8.4	17.4

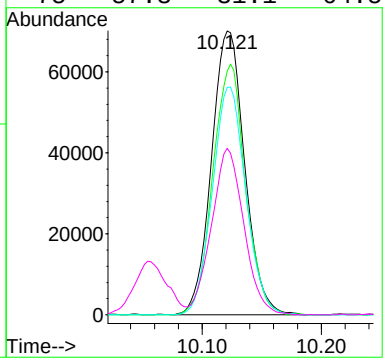


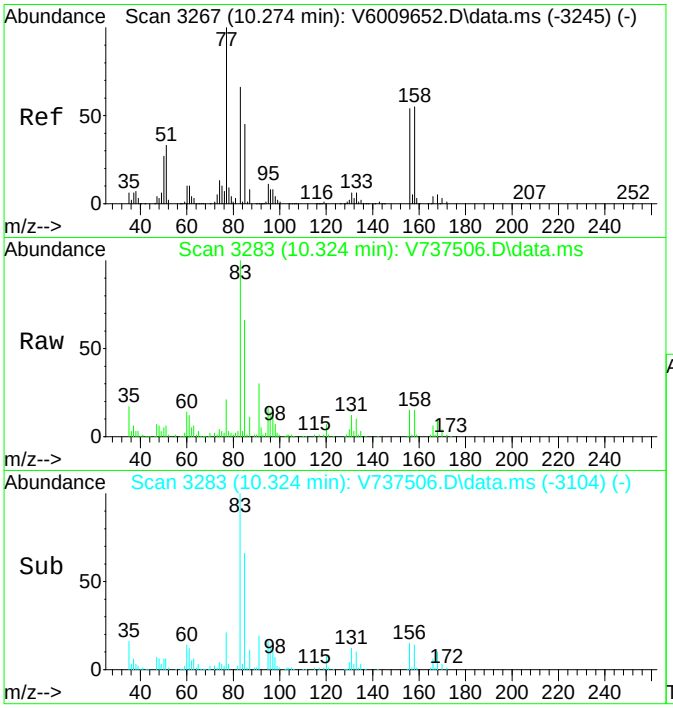


#73
p-Bromofluorobenzene (SURR)
Concen: 10.43 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 95 Resp: 135873

Ion	Ratio	Lower	Upper
95	100		
174	86.5	49.1	102.1
176	81.1	47.7	99.1
75	57.3	31.1	64.5

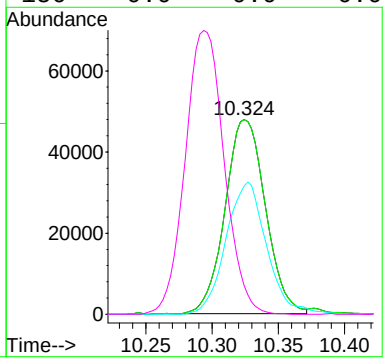


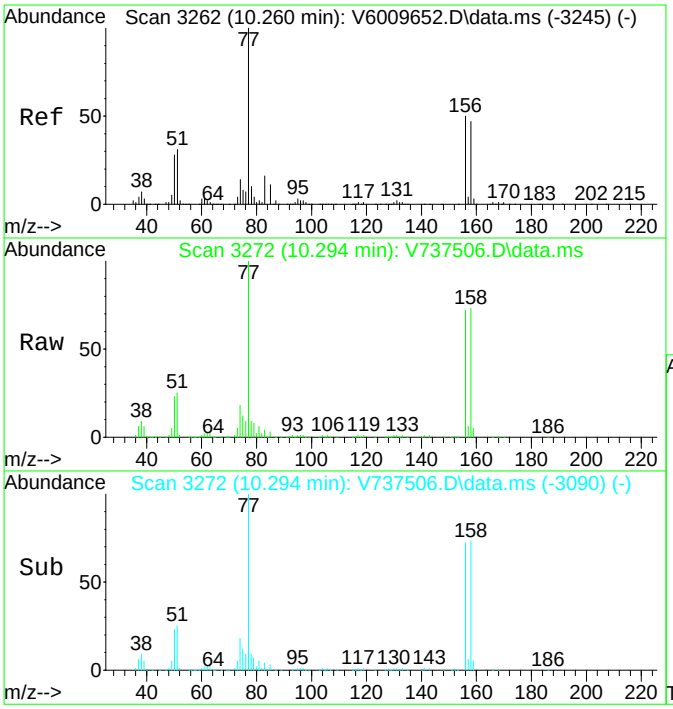


#74
1,1,2,2-Tetrachloroethane
Concen: 10.29 ppb
RT: 10.324 min Scan# 3283
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 83 Resp: 101868

Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
85	68.6	42.1	87.5
156	0.0	0.0	0.0

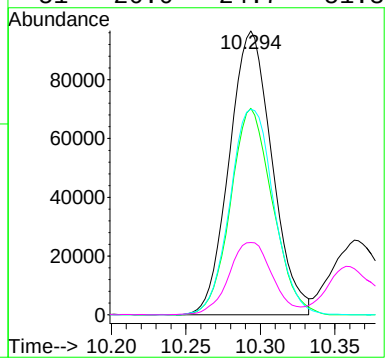


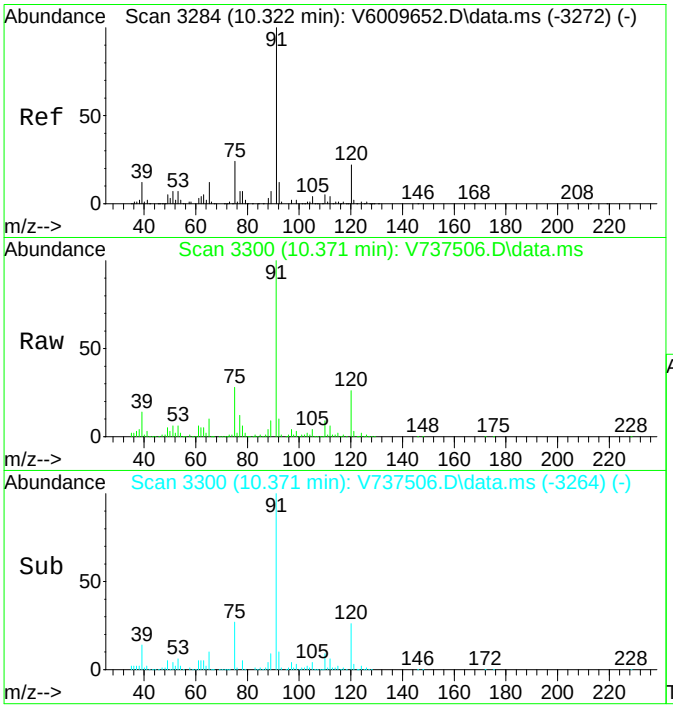


#75
Bromobenzene
Concen: 10.73 ppb
RT: 10.294 min Scan# 3272
Delta R.T. 0.006 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 77 Resp: 193285

Ion	Ratio	Lower	Upper
77	100		
158	71.3	37.2	77.4
156	74.3	38.9	80.7
51	26.0	24.7	51.3

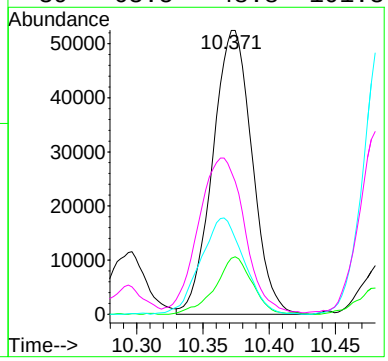


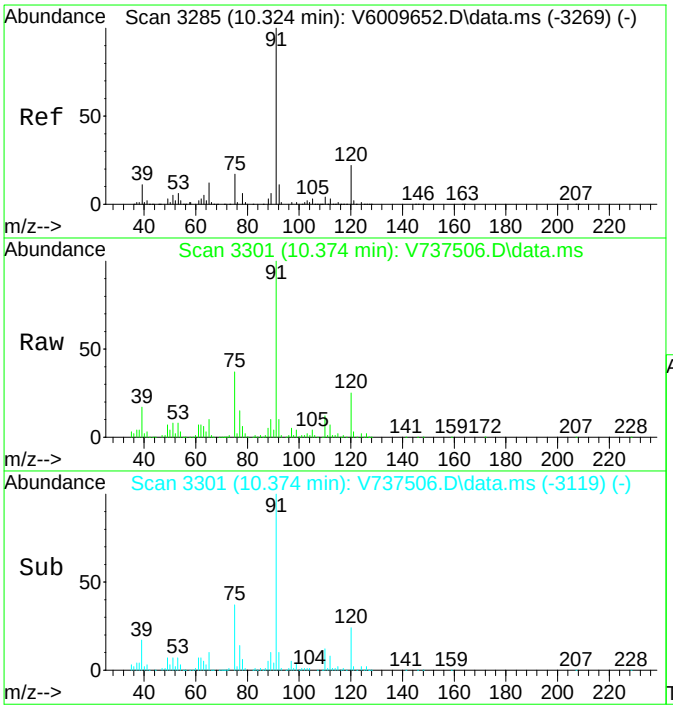


#76
trans-1,4-Dichloro-2-butene
Concen: 11.09 ppb
RT: 10.371 min Scan# 3300
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 75 Resp: 108785

Ion	Ratio	Lower	Upper
75	100		
53	18.9	21.8	45.4#
89	37.7	20.8	43.2
39	63.5	48.8	101.3

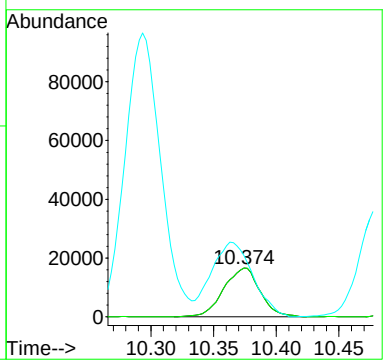


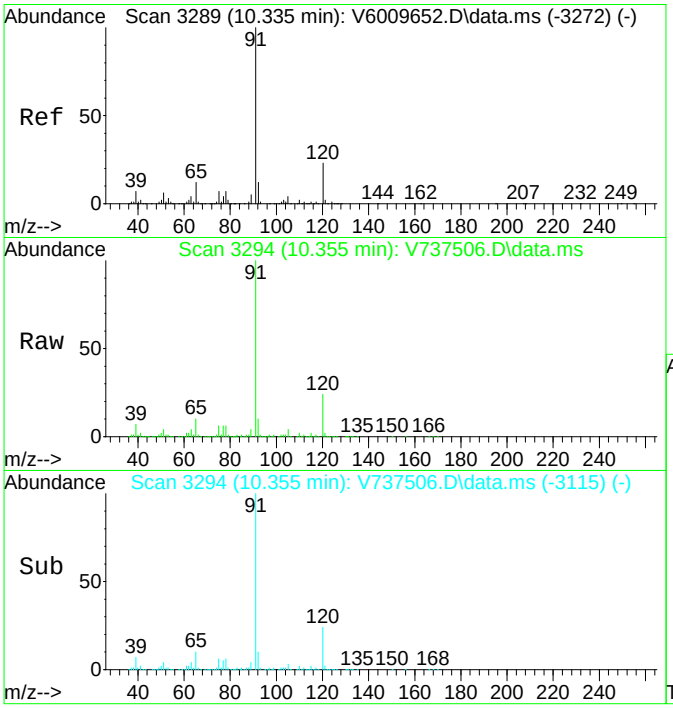


#77
1,2,3-Trichloropropane
Concen: 11.00 ppb
RT: 10.374 min Scan# 3301
Delta R.T. 0.006 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:110 Resp: 33463

Ion	Ratio	Lower	Upper
110	100		
110	100.0	80.0	120.0
77	177.1	113.1	339.4

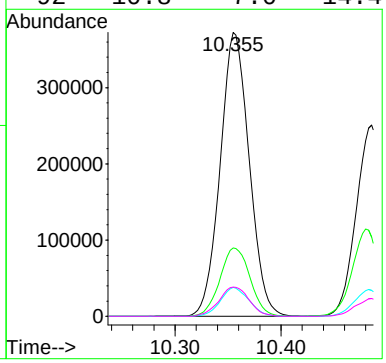


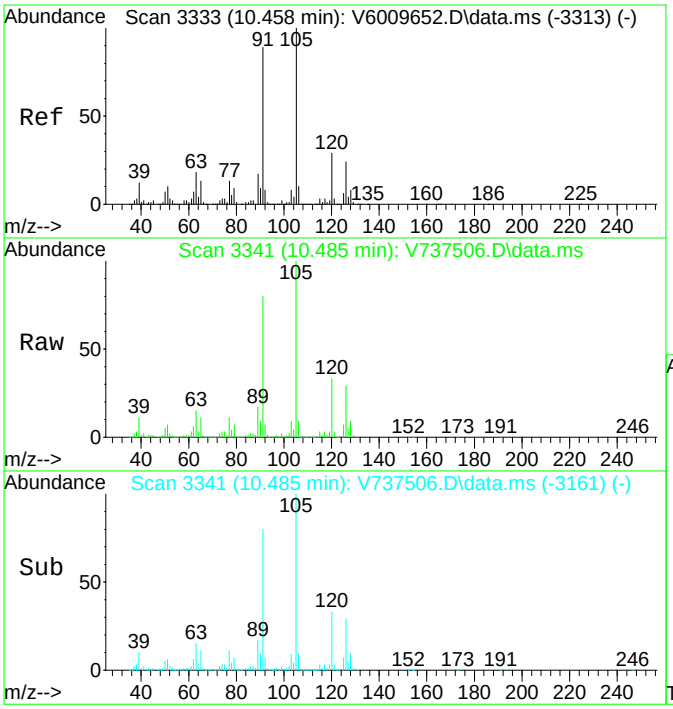


#78
n-Propylbenzene
Concen: 10.33 ppb
RT: 10.355 min Scan# 3294
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 708846

Ion	Ratio	Lower	Upper
91	100		
120	25.0	14.8	30.8
65	10.0	7.0	14.4
92	10.8	7.0	14.4

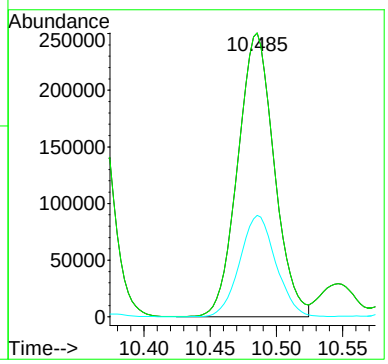


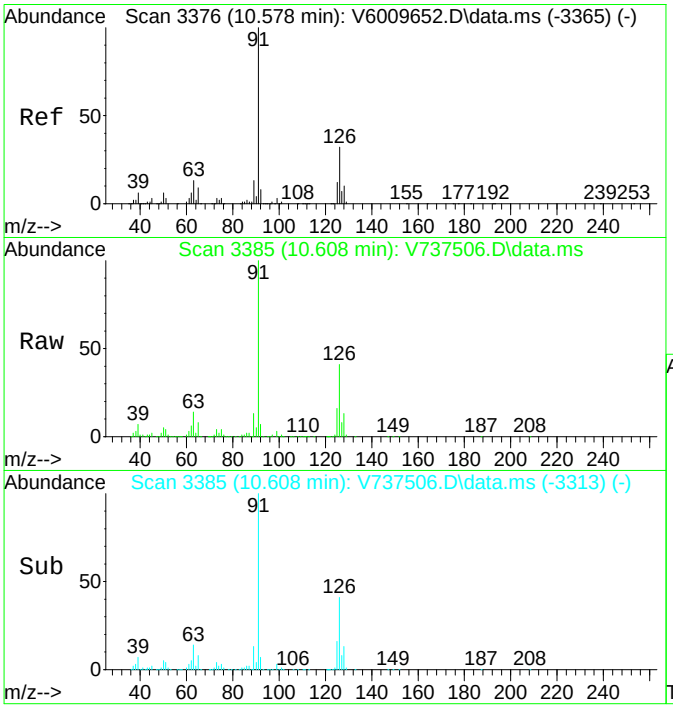


#79
2-Chlorotoluene
Concen: 10.60 ppb
RT: 10.485 min Scan# 3341
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 478686

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
126	35.6	18.1	37.7

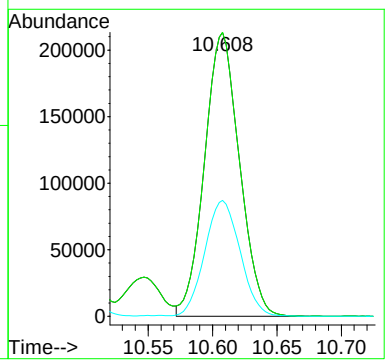


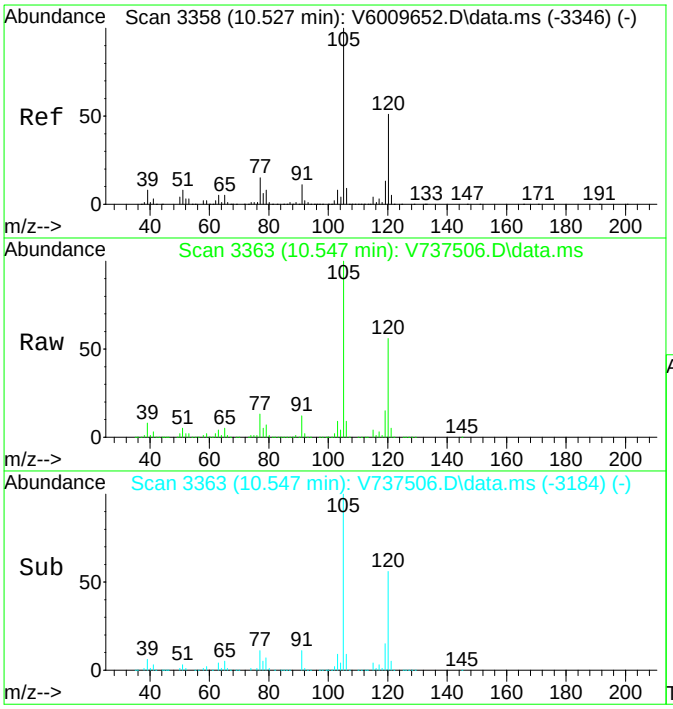


#80
4-Chlorotoluene
Concen: 10.34 ppb
RT: 10.608 min Scan# 3385
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 401713

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
126	41.4	16.0	47.9

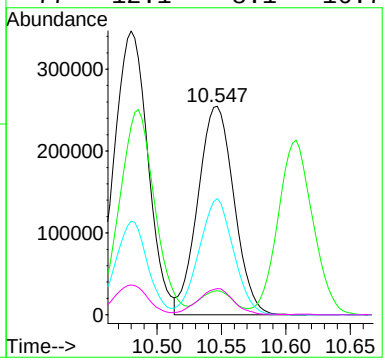


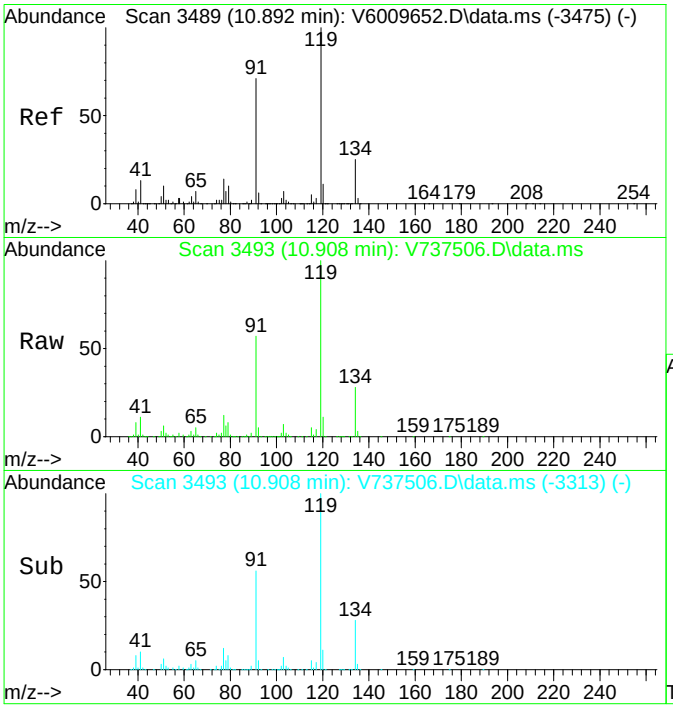


#81
1,3,5-Trimethylbenzene
Concen: 10.51 ppb
RT: 10.547 min Scan# 3363
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:105 Resp: 497604

Ion	Ratio	Lower	Upper
105	100		
91	10.9	6.8	14.2
120	53.5	32.6	67.6
77	12.1	8.1	16.7

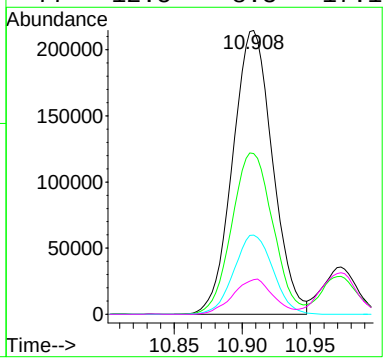


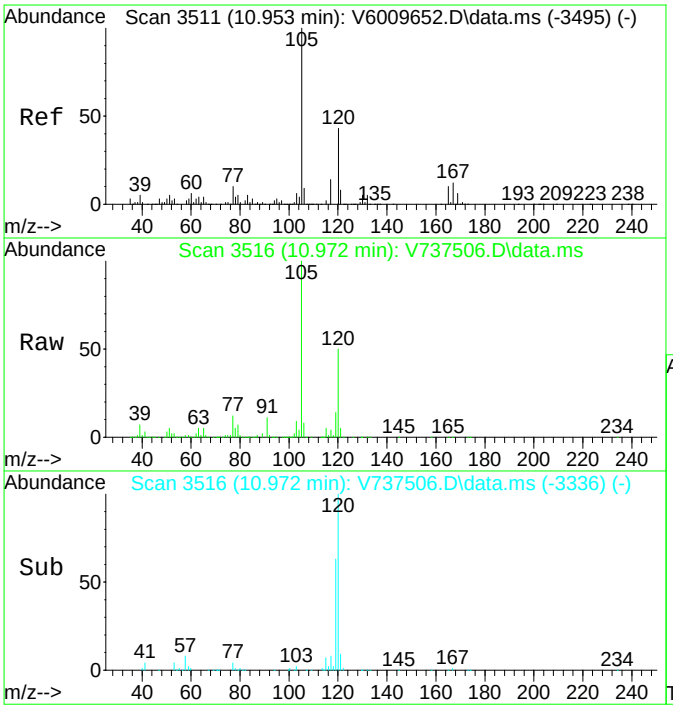


#82
tert-Butylbenzene
Concen: 10.35 ppb
RT: 10.908 min Scan# 3493
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:119 Resp: 436612

Ion	Ratio	Lower	Upper
119	100		
91	58.6	44.3	91.9
134	27.4	15.9	33.1
77	12.5	8.3	17.1

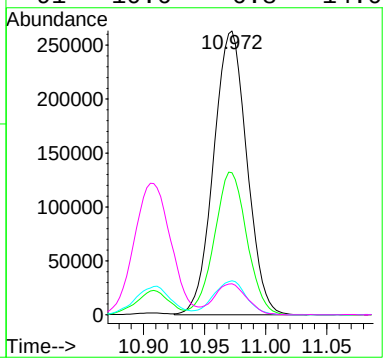


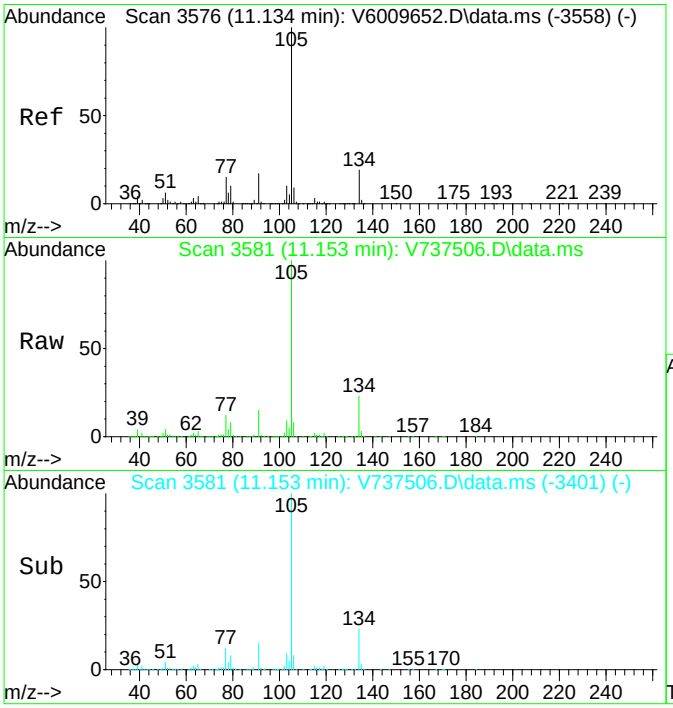


#83
1,2,4-Trimethylbenzene
Concen: 10.32 ppb
RT: 10.972 min Scan# 3516
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:105 Resp: 497223

Ion	Ratio	Lower	Upper
105	100		
120	49.4	30.7	63.7
77	12.0	8.0	16.6
91	10.6	6.8	14.0

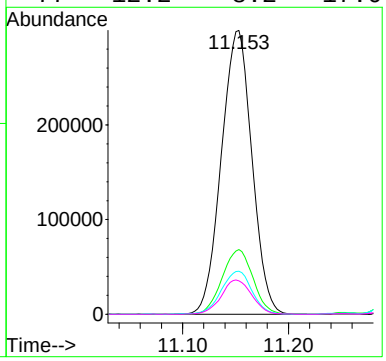


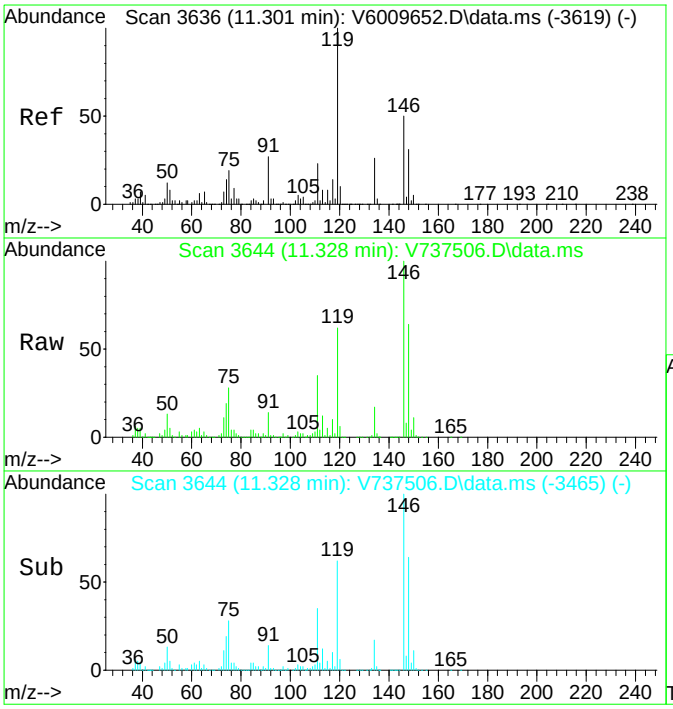


#84
sec-Butylbenzene
Concen: 11.34 ppb
RT: 11.153 min Scan# 3581
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:105 Resp: 600672

Ion	Ratio	Lower	Upper
105	100		
134	23.1	13.5	28.1
91	15.4	10.7	22.1
77	12.2	8.2	17.0

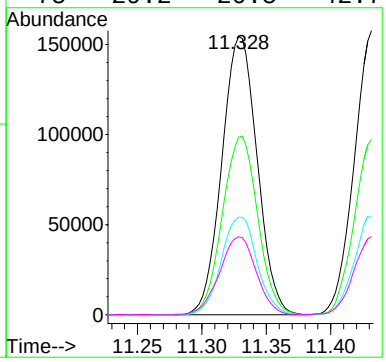


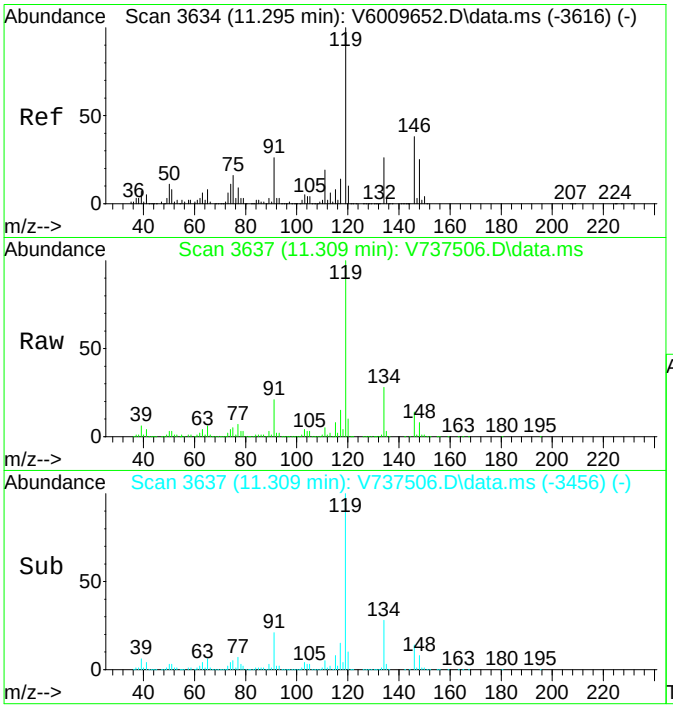


#85
1,3-Dichlorobenzene
Concen: 10.02 ppb
RT: 11.328 min Scan# 3644
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:146 Resp: 294867

Ion	Ratio	Lower	Upper
146	100		
148	64.1	41.7	86.5
111	35.6	27.2	56.6
75	29.2	20.5	42.7

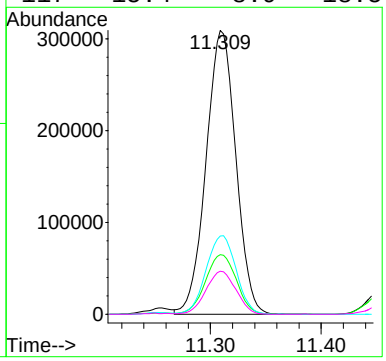


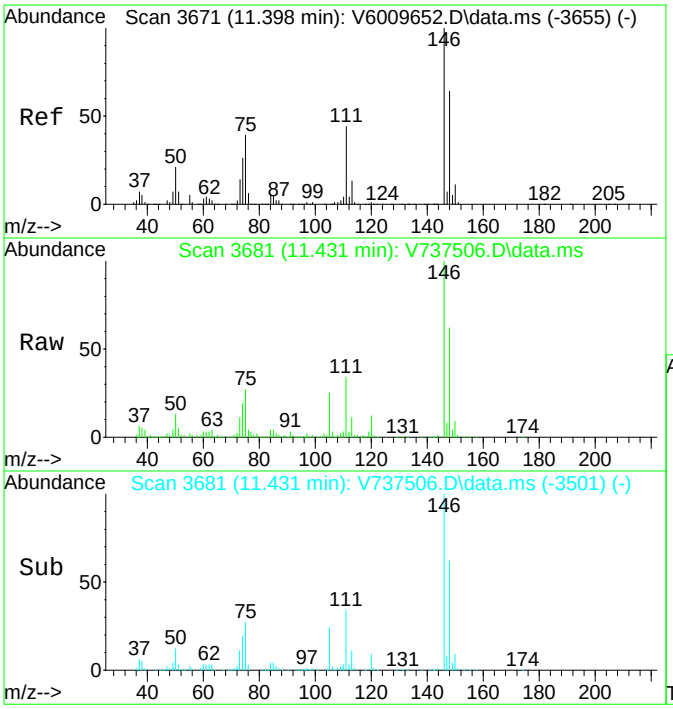


#86
p-Isopropyltoluene
Concen: 10.84 ppb
RT: 11.309 min Scan# 3637
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:119 Resp: 575540

Ion	Ratio	Lower	Upper
119	100		
91	21.9	15.8	32.8
134	28.0	17.6	36.6
117	15.4	8.9	18.5

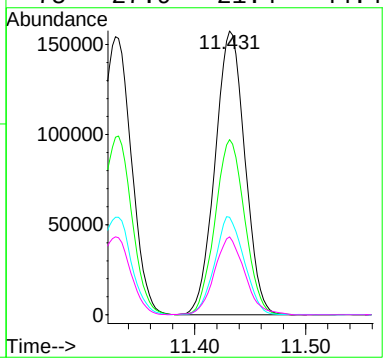


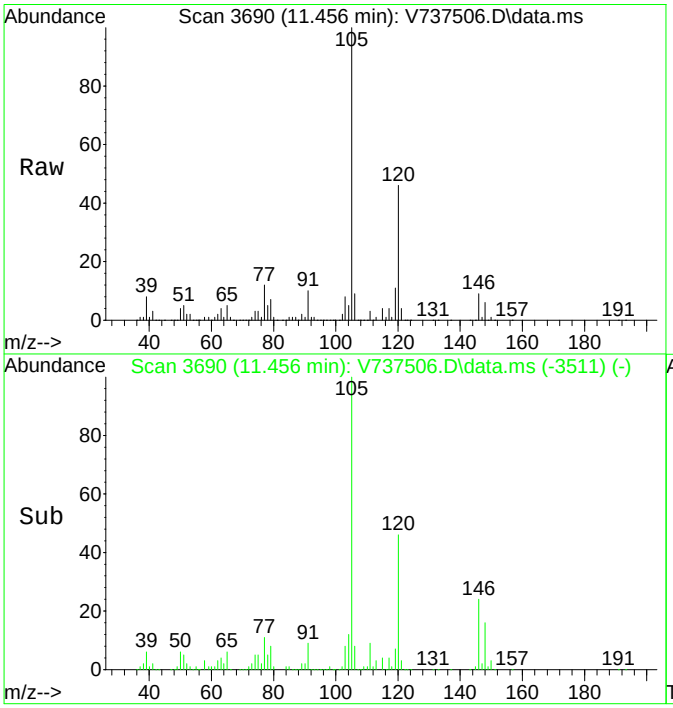


#87
1,4-Dichlorobenzene
Concen: 10.12 ppb
RT: 11.431 min Scan# 3681
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:146 Resp: 294886

Ion	Ratio	Lower	Upper
146	100		
148	61.5	41.0	85.2
111	33.8	26.3	54.7
75	27.9	21.4	44.4

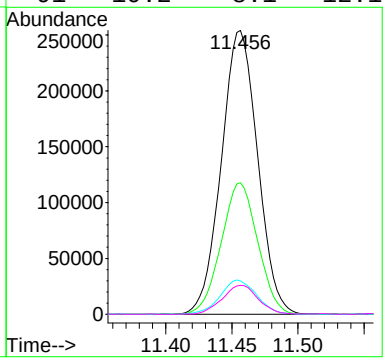


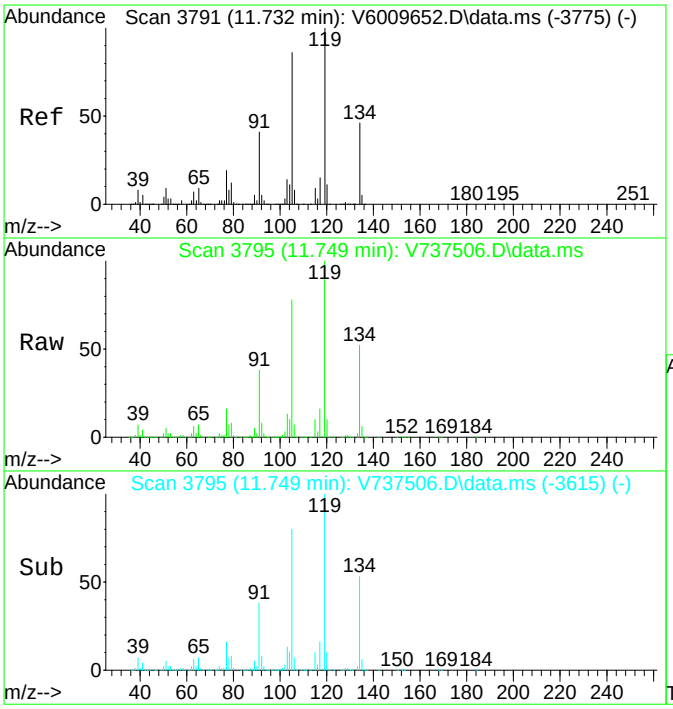


#88
1,2,3-Trimethylbenzene
Concen: 10.74 ppb
RT: 11.456 min Scan# 3690
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:105 Resp: 483898

Ion	Ratio	Lower	Upper
105	100		
120	46.7	34.3	51.5
77	12.3	9.8	14.8
91	10.2	8.1	12.1

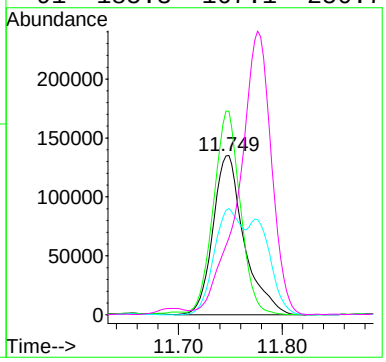


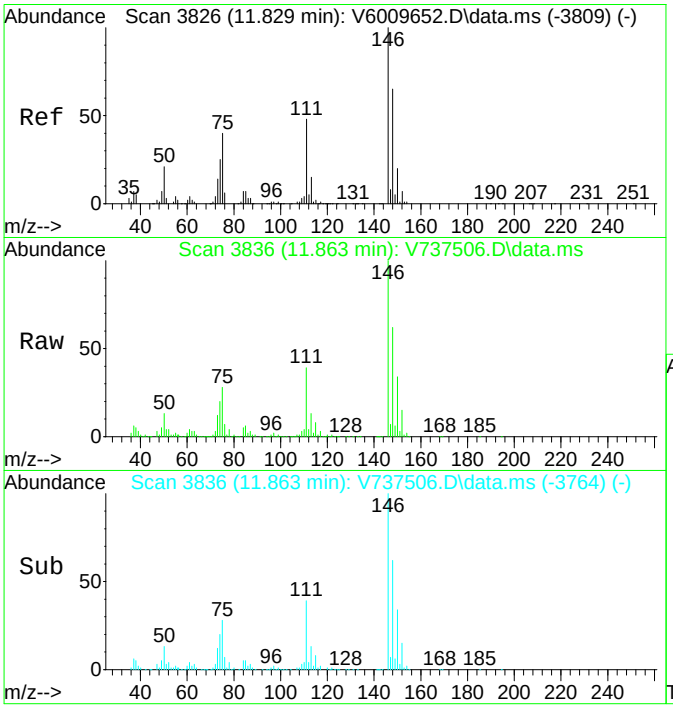


#89
p-Diethylbenzene
Concen: 12.58 ppb
RT: 11.749 min Scan# 3795
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:105 Resp: 281972

Ion	Ratio	Lower	Upper
105	100		
119	110.3	83.7	125.5
134	62.3	35.5	73.7
91	185.3	167.1	250.7

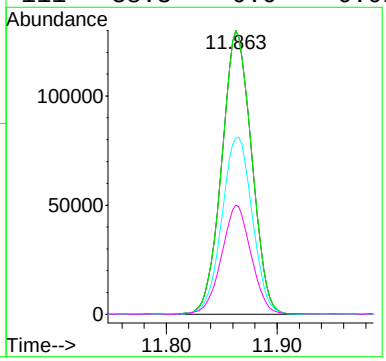


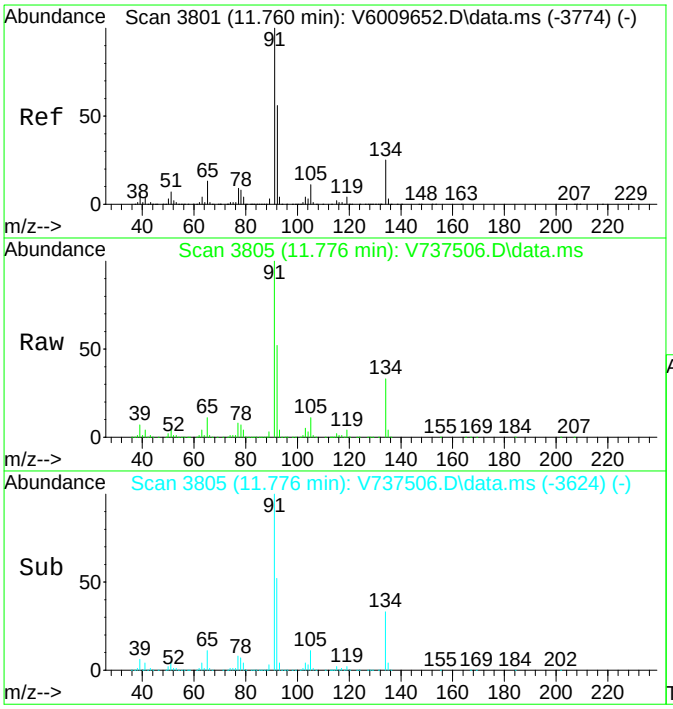


#90
1,2-Dichlorobenzene
Concen: 9.96 ppb
RT: 11.863 min Scan# 3836
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:146 Resp: 243226

Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	0.0	41.6	86.4#
111	38.3	0.0	0.0#

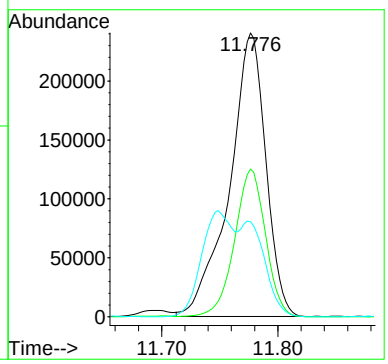


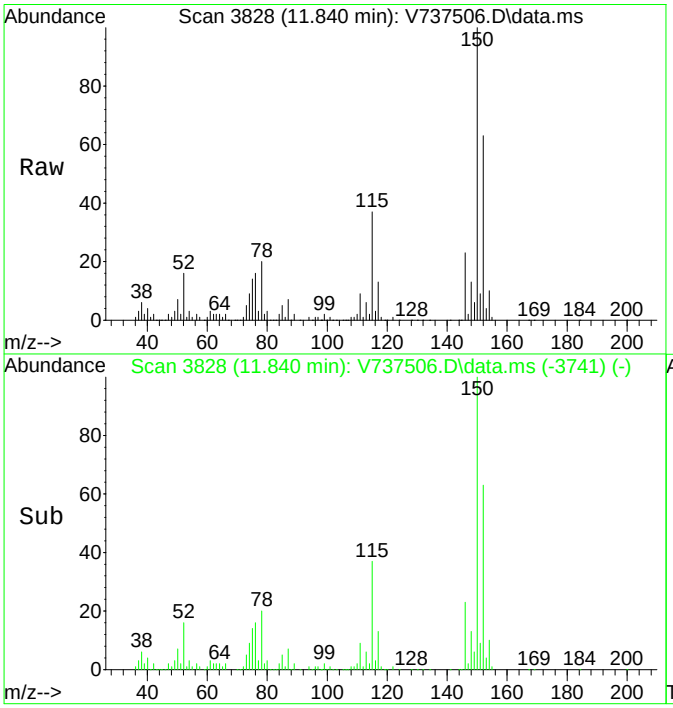


#91
n-Butylbenzene
Concen: 14.51 ppb
RT: 11.776 min Scan# 3805
Delta R.T. 0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 91 Resp: 522399

Ion	Ratio	Lower	Upper
91	100		
92	44.4	30.9	64.1
134	33.6	17.0	35.4

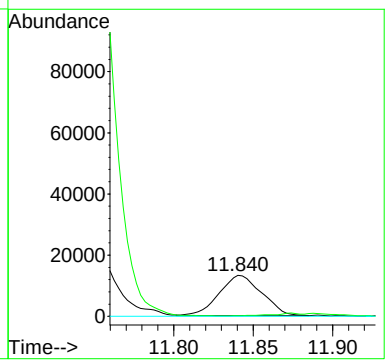


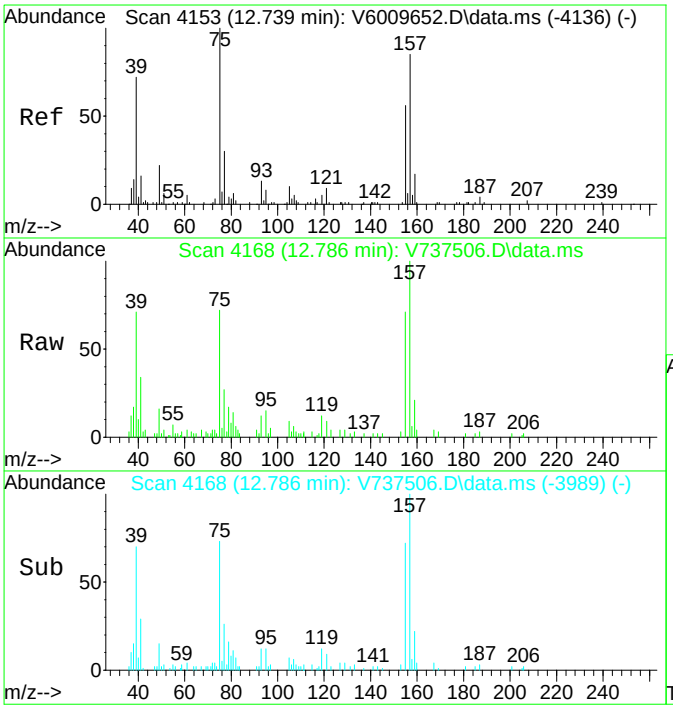


#92
Hexachloroethane
Concen: 3.21 ppb
RT: 11.840 min Scan# 3828
Delta R.T. -0.259 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:117 Resp: 24540

Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.3	117.5#
201	0.0	66.1	99.1#

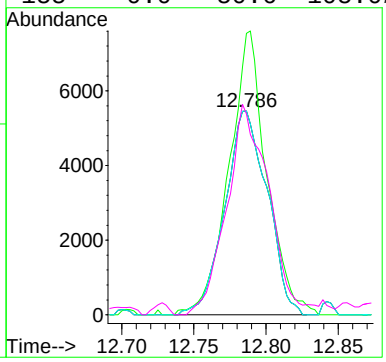


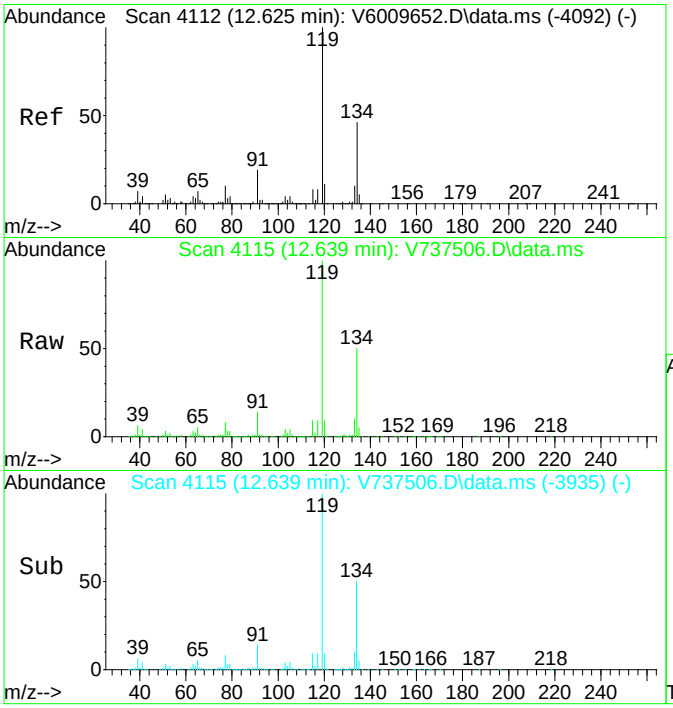


#93
1,2-Dibromo-3-chloropropane
Concen: 9.96 ppb
RT: 12.786 min Scan# 4168
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 75 Resp: 11174

Ion	Ratio	Lower	Upper
75	100		
157	123.9	80.2	120.2#
75	100.0	65.0	135.0
155	0.0	50.6	105.0#

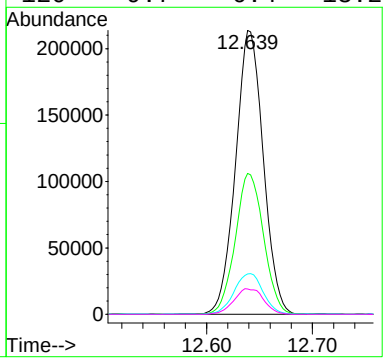


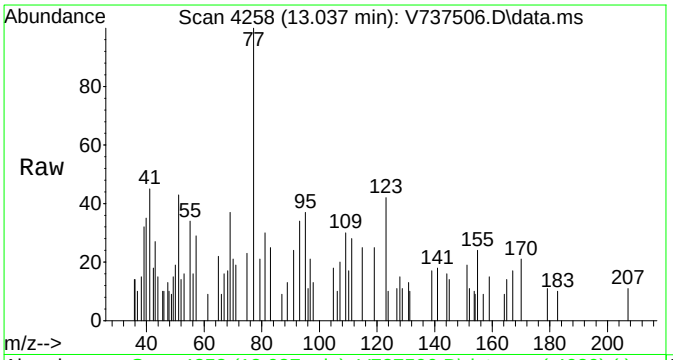


#94
1,2,4,5-Tetramethylbenzene
Concen: 10.77 ppb
RT: 12.639 min Scan# 4115
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:119 Resp: 388603

Ion	Ratio	Lower	Upper
119	100		
134	50.7	31.2	64.8
91	14.9	10.5	21.7
120	9.7	6.4	13.2

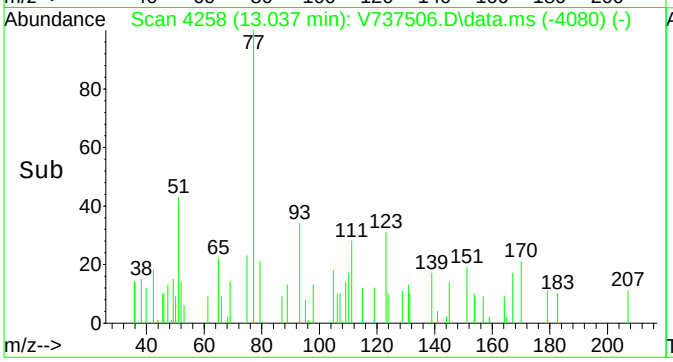


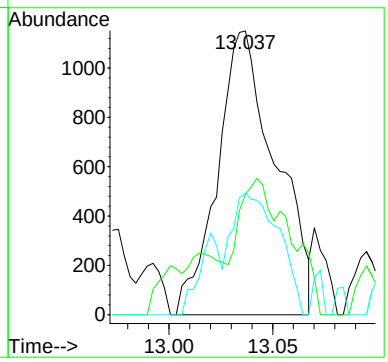


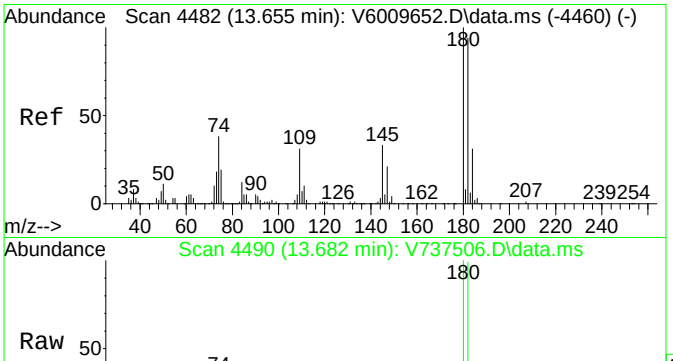
#95
Nitrobenzene
Concen: 12.37 ppb
RT: 13.037 min Scan# 4258
Delta R.T. -0.005 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion: 77 Resp: 2250

Ion	Ratio	Lower	Upper
77	100		
123	41.7	30.3	45.5
51	34.7	40.8	61.2#



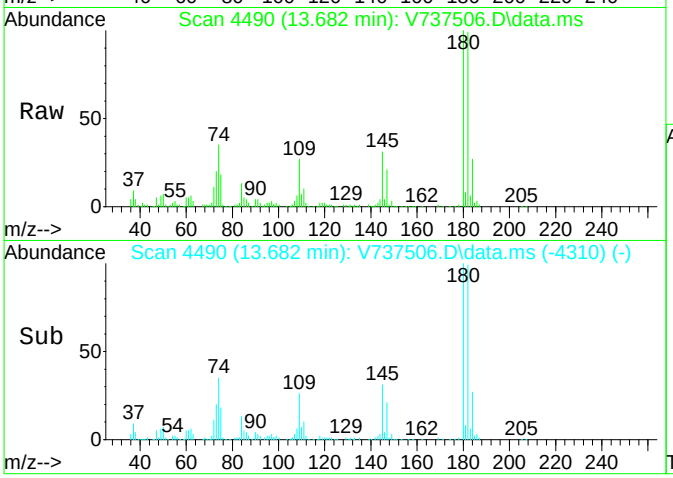


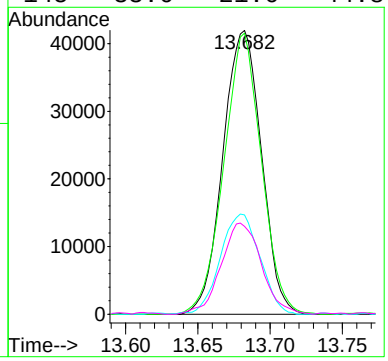


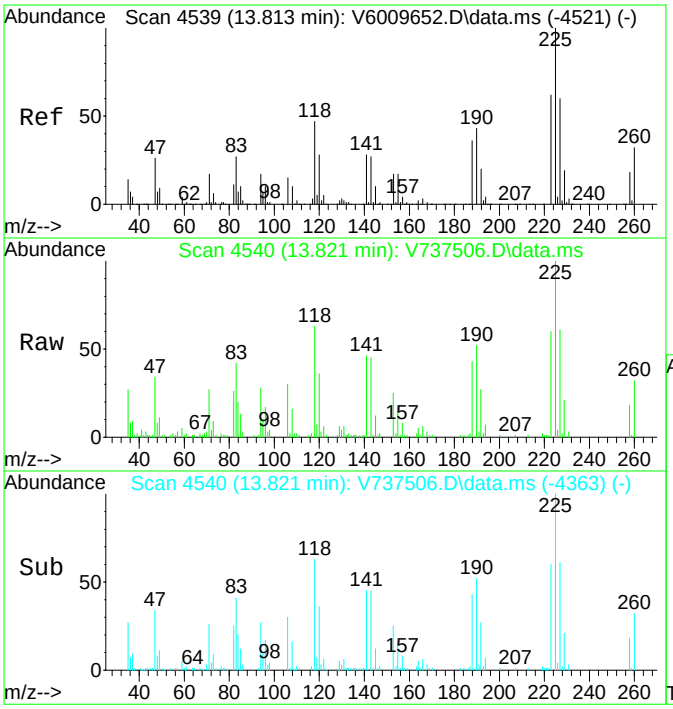
#96
1,2,4-Trichlorobenzene
Concen: 9.17 ppb
RT: 13.682 min Scan# 4490
Delta R.T. -0.000 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:180 Resp: 77991

Ion	Ratio	Lower	Upper
180	100		
182	96.5	62.1	129.1
74	36.4	20.0	41.6
145	33.6	21.6	44.8



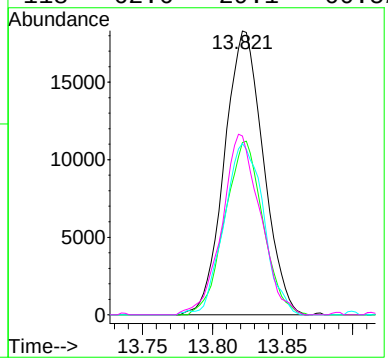


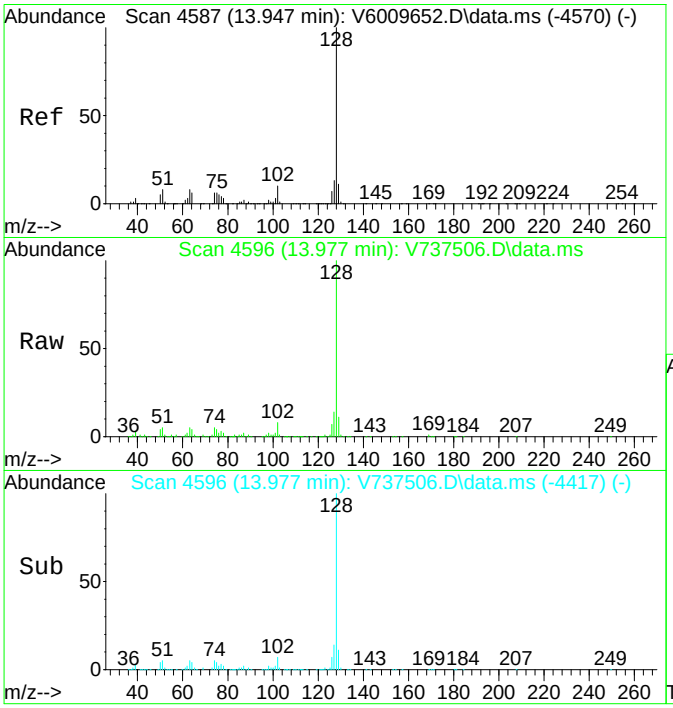


#97
Hexachloro-1,3-Butadiene
Concen: 10.25 ppb
RT: 13.821 min Scan# 4540
Delta R.T. -0.008 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:225 Resp: 35249

Ion	Ratio	Lower	Upper
225	100		
227	59.7	41.6	86.4
223	61.1	40.8	84.6
118	62.6	29.1	60.5#

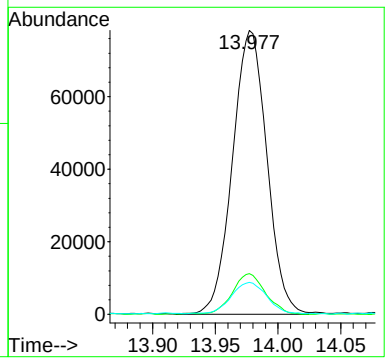


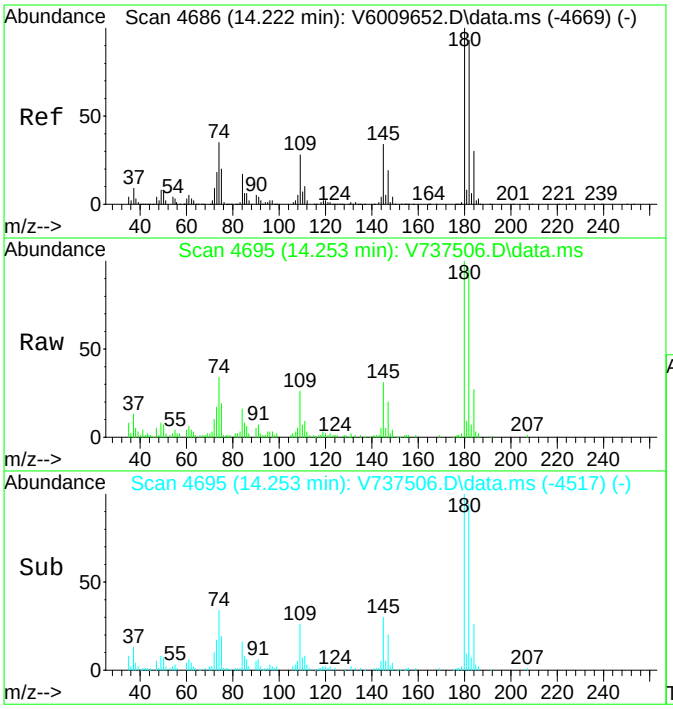


#98
Naphthalene
Concen: 9.51 ppb
RT: 13.977 min Scan# 4596
Delta R.T. -0.003 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:128 Resp: 149236

Ion	Ratio	Lower	Upper
128	100		
127	13.8	8.3	17.1
129	11.3	7.1	14.7

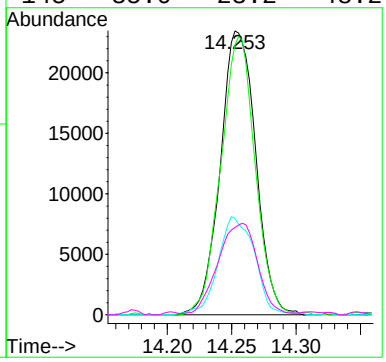




#99
1,2,3-Trichlorobenzene
Concen: 8.87 ppb
RT: 14.253 min Scan# 4695
Delta R.T. -0.006 min
Lab File: V737506.D
Acq: 22 Dec 2019 3:05 pm

Tgt Ion:180 Resp: 44787

Ion	Ratio	Lower	Upper
180	100		
182	94.7	62.0	128.8
74	35.7	18.9	39.1
145	35.0	23.2	48.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737508.D
Acq On : 22 Dec 2019 4:04 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BS2
Misc : QBV7122219A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 23 08:52:37 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.823	70	78426	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	350704	10.00	ppb		# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	124960	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	86640	9.61	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.10%				
53) Toluene-d8 (SURR)	7.344	98	439630	9.73	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.30%				
73) p-Bromofluorobenzene (...	10.121	95	136601	10.87	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	180568	19.96	ppb		100
3) Chloromethane	1.699	50	122104	14.07	ppb		97
4) Vinyl Chloride	1.799	62	176500	11.78	ppb		99
5) Bromomethane	2.156	94	105097	16.19	ppb		98
6) Chloroethane	2.259	64	160136	12.22	ppb		100
7) Trichlorofluoromethane	2.495	101	561472	11.34	ppb		98
8) Ethanol	2.793	45	46986	1520.90	ppb	#	52
9) Freon-113	3.004	101	117649	11.08	ppb		96
10) 1,1-Dichloroethylene	3.032	61	152470	10.80	ppb	#	73
11) Acrolein	2.987	56	5453	5.52	ppb		95
12) Acetone	3.143	43	12507	8.10	ppb	#	100
13) Iodomethane	3.210	142	55246	21.92	ppb		97
14) Ally Chloride	3.408	41	143330	11.06	ppb	#	79
15) Methyl Acetate	3.755	43	54182	14.17	ppb		98
16) Carbon disulfide	3.257	76	338589	10.91	ppb		100
17) tert-Butyl Alcohol (TBA)	3.680	59	30077	47.19	ppb	#	100
18) Methylene Chloride	3.552	49	115896	10.71	ppb	#	59
19) Acrylonitrile	3.830	53	14445	9.87	ppb	#	81
20) trans-1,2-Dichloroethy...	3.783	61	145007	11.05	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.755	73	278189	10.49	ppb		94
22) 1,1-Dichloroethane	4.209	63	190626	10.07	ppb		98
23) Vinyl Acetate	4.234	43	117408	8.30	ppb	#	100
24) Diisopropyl ether (DIPE)	4.189	45	276771	10.16	ppb	#	94
25) Ethyl-tert-Butyl ether...	4.532	59	285030	11.03	ppb	#	93
26) cis-1,2-Dichloroethylene	4.765	61	161624	10.56	ppb	#	87
27) 2-Butanone	4.790	72	7499	7.91	ppb	#	100
28) 2,2-Dichloropropane	4.732	77	177449	11.10	ppb	#	86
29) Tetrahydrofuran	5.030	71	7639	8.37	ppb	#	58
30) Bromochloromethane	5.005	49	65092	9.55	ppb	#	57
31) Chloroform	5.069	83	203143	9.94	ppb	#	98
32) 1,1,1-Trichloroethane	5.202	97	205765	10.93	ppb	#	67
33) Cyclohexane	5.213	56	155826	10.99	ppb	#	69
34) 1,1-Dichloropropylene	5.350	75	170431	10.27	ppb		83
36) Carbon Tetrachloride	5.341	117	193971	10.28	ppb	#	58
37) tert-Amyl alcohol (TAA)	5.581	59	68100	103.26	ppb	#	1
38) 1,2-Dichloroethane	5.619	62	118878	10.31	ppb		98
39) Benzene	5.558	78	472854	10.53	ppb	#	69
40) tert-Amyl methyl ether...	5.608	73	364884	10.93	ppb	#	99
42) Trichloroethylene	6.165	95	129022	10.29	ppb		82
43) Methyl Cyclohexane	6.293	83	188989	10.93	ppb	#	71
44) Methyl Methacrylate	6.479	69	57068	10.33	ppb	#	26
45) Dibromomethane	6.554	93	61814	9.61	ppb		98
46) Bromodichloromethane	6.696	83	146882	10.29	ppb		94
47) 1,2-Dichloropropane	6.412	63	99912	9.90	ppb	#	87
48) 1,4-Dioxane	6.538	88	2173	56.62	ppb		99
49) 2-Nitropropane	6.944	43	17383	6.63	ppb	#	10
50) 2-Chloroethyl vinyl ether	7.411	63	46002	19.87	ppb	#	91
51) cis-1,3-Dichloropropene	7.114	75	172509	10.60	ppb		88

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737508.D
Acq On : 22 Dec 2019 4:04 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BS2
Misc : QBV7122219A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 23 08:52:37 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

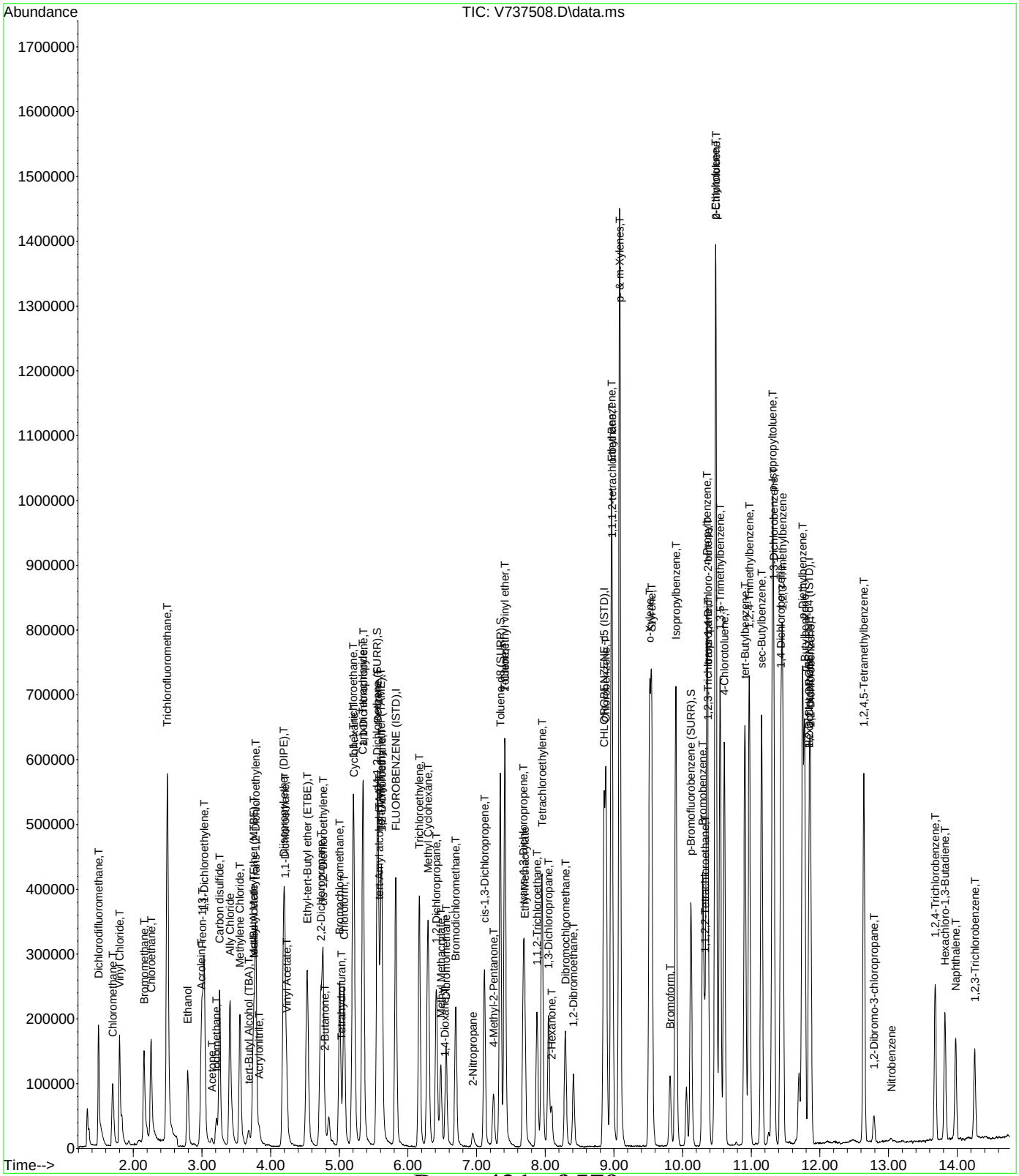
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.247	43	65745	11.14	ppb	#	93
54) Toluene	7.411	91	548245	10.59	ppb		98
55) Ethyl Methacrylate	7.701	69	120796	10.62	ppb	#	26
56) trans-1,3-Dichloropropene	7.681	75	148461	10.67	ppb		99
57) 1,1,2-Trichloroethane	7.879	97	75754	9.51	ppb		92
58) 1,3-Dichloropropane	8.048	76	134991	10.06	ppb	#	99
59) Tetrachloroethylene	7.954	166	130735	8.56	ppb	#	100
60) 2-Hexanone	8.093	43	43341	10.28	ppb		98
61) Dibromochloromethane	8.293	129	113347	11.00	ppb	#	96
62) 1,2-Dibromoethane	8.410	107	78699	9.70	ppb		97
63) Chlorobenzene	8.883	112	364910	9.90	ppb	#	88
64) 1,1,1,2-tetrachloroethane	8.975	131	140728	10.20	ppb		99
65) Ethyl Benzene	8.964	91	617024	10.43	ppb		96
66) p- & m-Xylenes	9.083	91	951712	20.68	ppb		94
67) o-Xylene	9.520	91	465424	10.53	ppb		98
68) Styrene	9.548	104	394277	10.50	ppb	#	100
69) Bromoform	9.818	173	50998	9.42	ppb	#	76
71) p-Ethyltoluene	10.480	105	626077	11.26	ppb	#	87
72) Isopropylbenzene	9.904	105	594443	10.19	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.324	83	97184	10.19	ppb	#	99
75) Bromobenzene	10.294	77	184619	10.64	ppb		79
76) trans-1,4-Dichloro-2-b...	10.369	75	99112	10.48	ppb	#	86
77) 1,2,3-Trichloropropane	10.372	110	29768	10.15	ppb		86
78) n-Propylbenzene	10.355	91	689313	10.43	ppb		96
79) 2-Chlorotoluene	10.486	91	453521	10.42	ppb		97
80) 4-Chlorotoluene	10.608	91	388978	10.39	ppb		96
81) 1,3,5-Trimethylbenzene	10.547	105	483829	10.60	ppb		97
82) tert-Butylbenzene	10.909	119	418177	10.29	ppb		91
83) 1,2,4-Trimethylbenzene	10.972	105	477616	10.28	ppb		97
84) sec-Butylbenzene	11.151	105	579070	11.34	ppb		97
85) 1,3-Dichlorobenzene	11.329	146	282467	9.96	ppb		96
86) p-Isopropyltoluene	11.309	119	547962	10.70	ppb		96
87) 1,4-Dichlorobenzene	11.432	146	279158	9.94	ppb		94
88) 1,2,3-Trimethylbenzene	11.457	105	462957	10.66	ppb		97
89) p-Diethylbenzene	11.749	105	267055	12.36	ppb		89
90) 1,2-Dichlorobenzene	11.863	146	234817	9.98	ppb	#	99
91) n-Butylbenzene	11.777	91	498327	14.36	ppb		93
92) Hexachloroethane	11.843	117	24153	3.26	ppb	#	4
93) 1,2-Dibromo-3-chloropr...	12.787	75	10056	9.30	ppb	#	65
94) 1,2,4,5-Tetramethylben...	12.639	119	367096	10.55	ppb		96
95) Nitrobenzene	13.045	77	1867	10.65	ppb	#	76
96) 1,2,4-Trichlorobenzene	13.680	180	76675	9.36	ppb		98
97) Hexachloro-1,3-Butadiene	13.822	225	33463	10.09	ppb	#	89
98) Naphthalene	13.977	128	144945	9.58	ppb		98
99) 1,2,3-Trichlorobenzene	14.256	180	44206	9.09	ppb		96

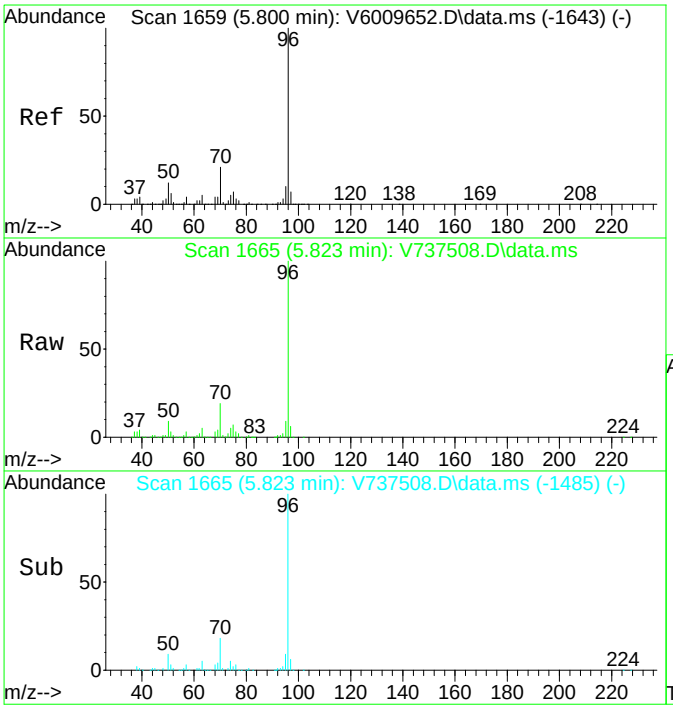
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737508.D
Acq On : 22 Dec 2019 4:04 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BS2
Misc : QBV7122219A
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 23 08:52:37 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

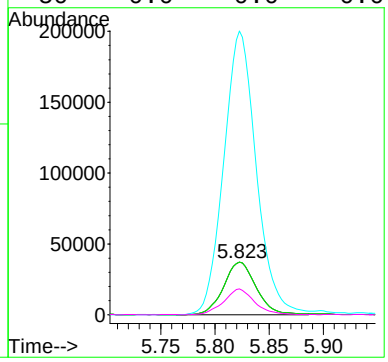


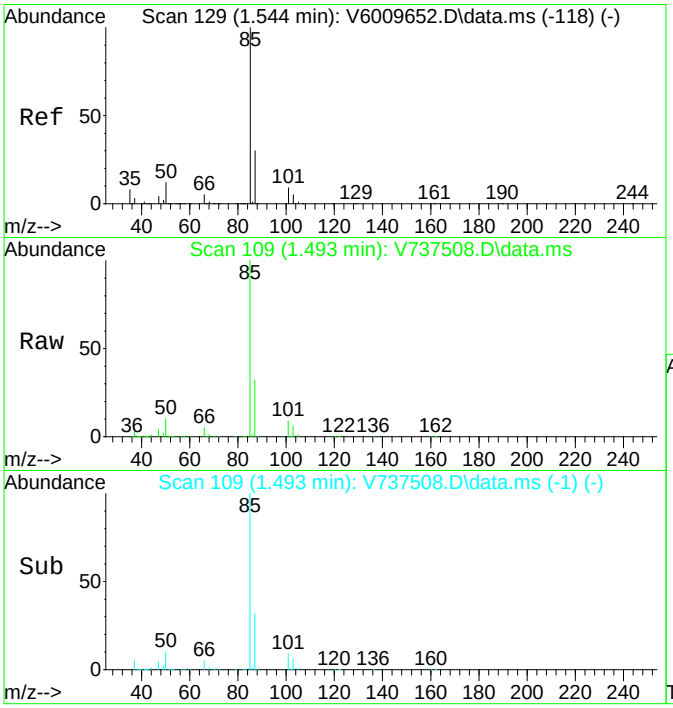


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.823 min Scan# 1665
Delta R.T. 0.001 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 70 Resp: 78426

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	534.8	323.6	672.2
50	0.0	0.0	0.0

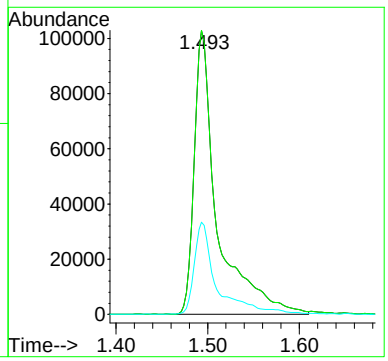


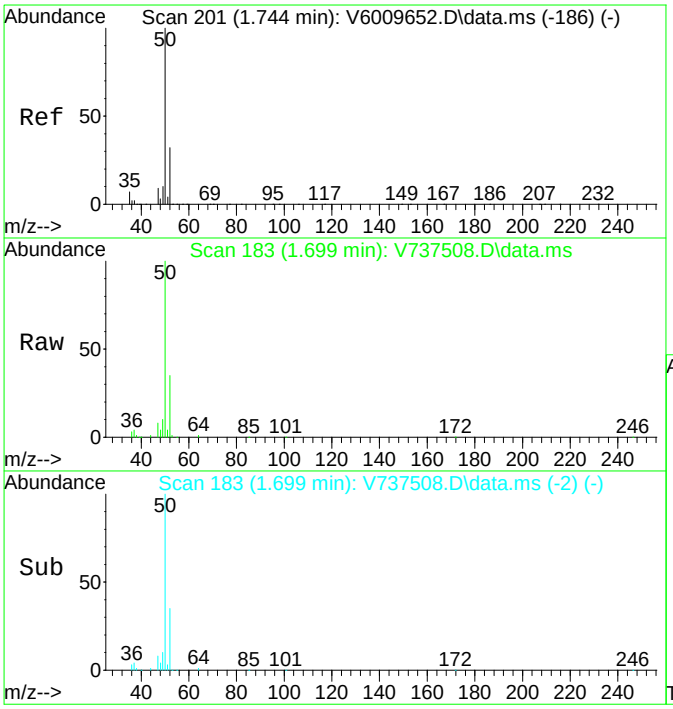


#2
Dichlorodifluoromethane
Concen: 19.96 ppb
RT: 1.493 min Scan# 109
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 85 Resp: 180568

Ion	Ratio	Lower	Upper
85	100		
85	100.0	65.0	135.0
87	31.7	21.1	43.9

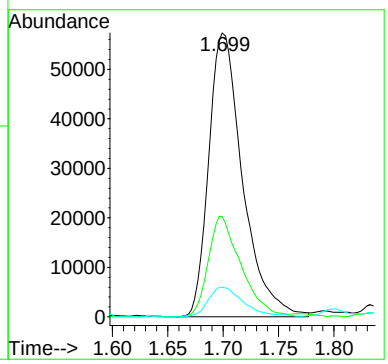


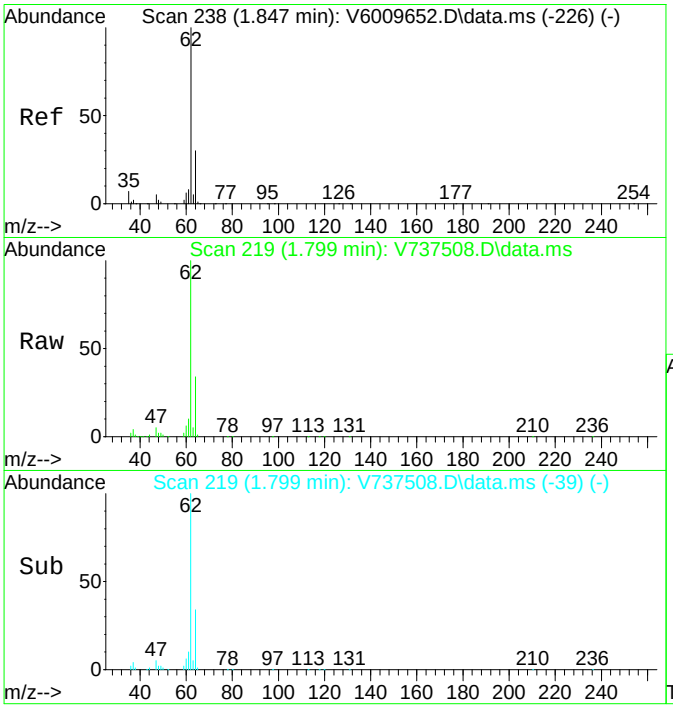


#3
Chloromethane
Concen: 14.07 ppb
RT: 1.699 min Scan# 183
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 50 Resp: 122104

Ion	Ratio	Lower	Upper
50	100		
52	34.3	20.9	43.5
49	11.0	6.6	13.6

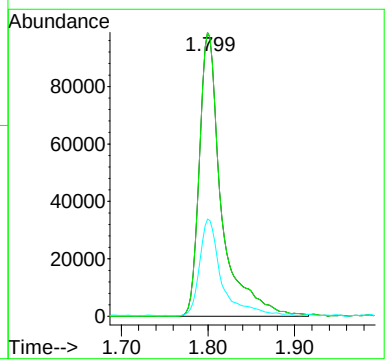


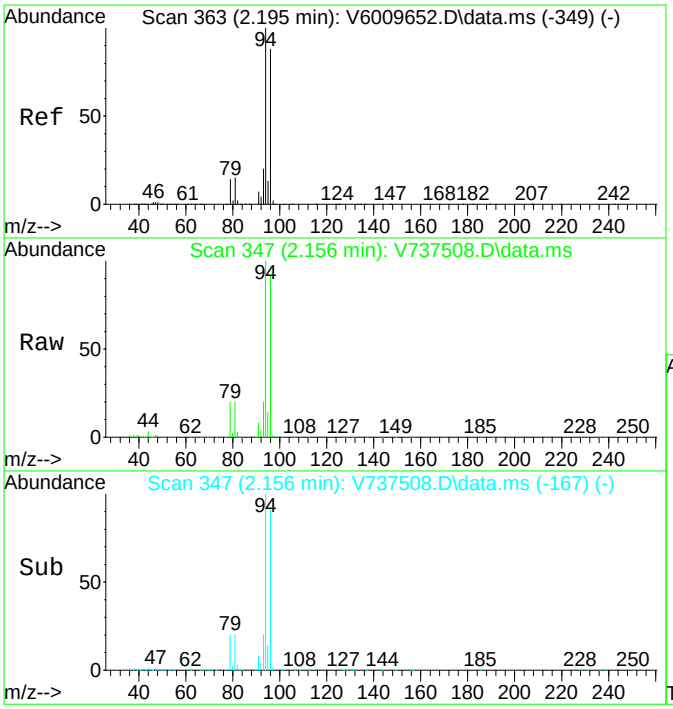


#4
Vinyl Chloride
Concen: 11.78 ppb
RT: 1.799 min Scan# 219
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 62 Resp: 176500

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	33.4	20.2	42.0

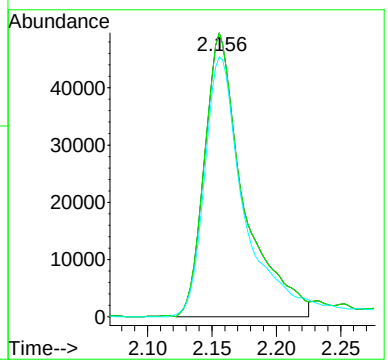


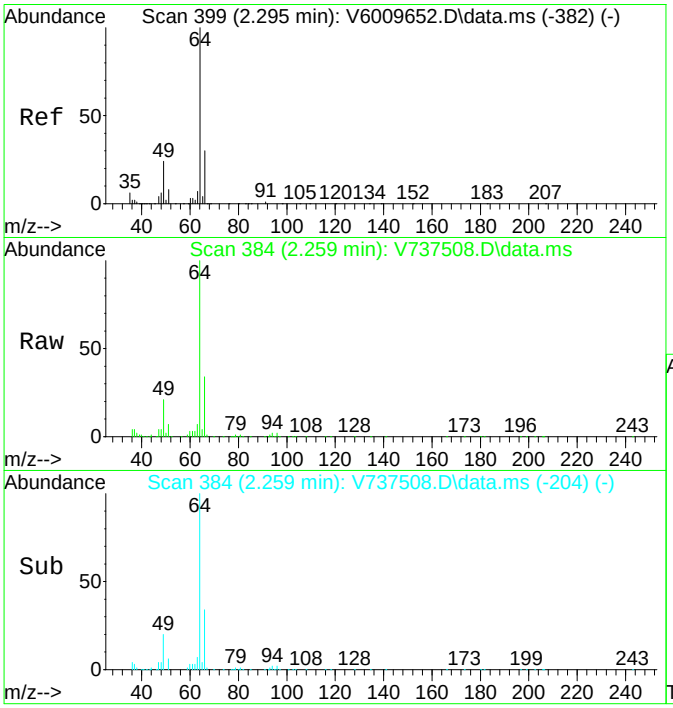


#5
Bromomethane
Concen: 16.19 ppb
RT: 2.156 min Scan# 347
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 94 Resp: 105097

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	95.7	45.9	137.6

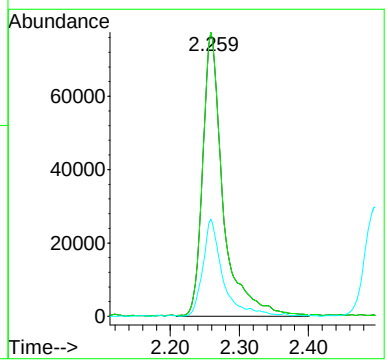


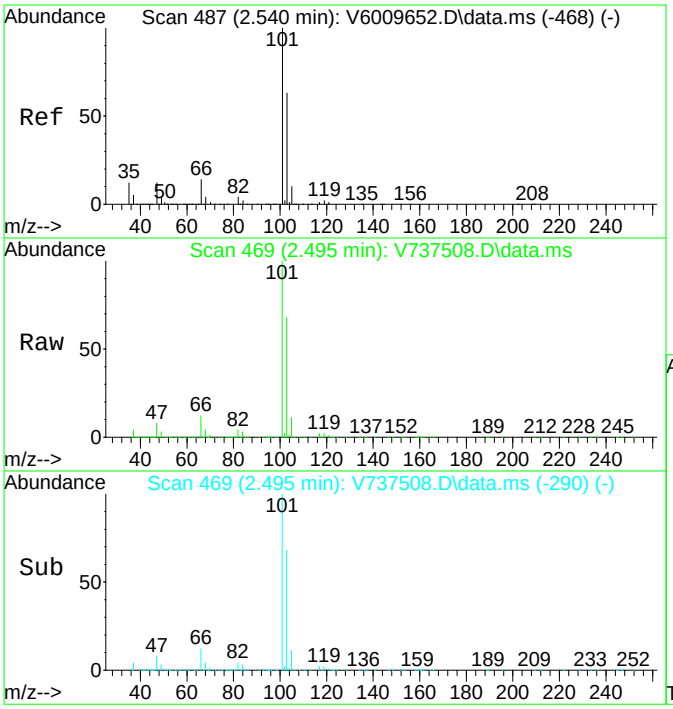


#6
Chloroethane
Concen: 12.22 ppb
RT: 2.259 min Scan# 384
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 64 Resp: 160136

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	31.2	20.6	42.8

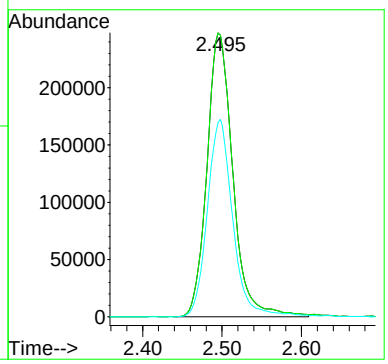


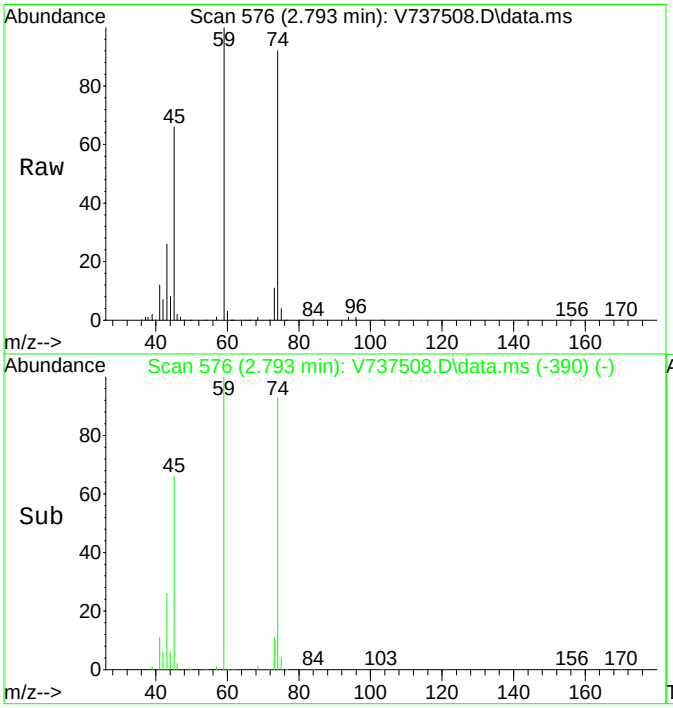


#7
Trichlorofluoromethane
Concen: 11.34 ppb
RT: 2.495 min Scan# 469
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:101 Resp: 561472

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.6	41.9	87.1

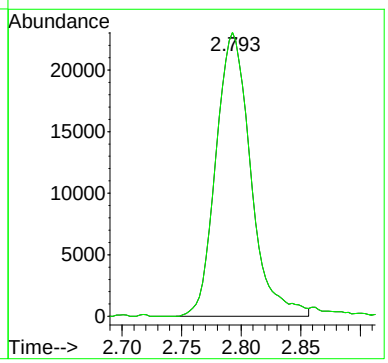


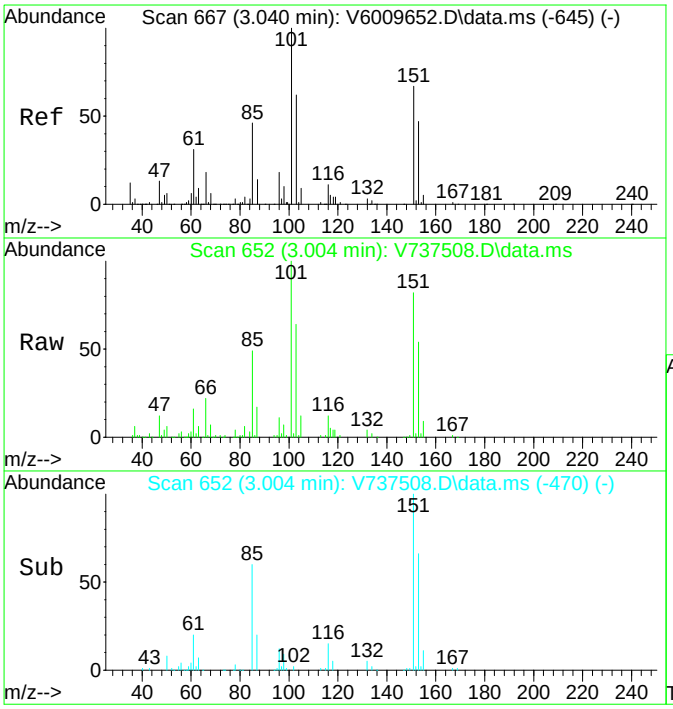


#8
Ethanol
Concen: 1520.90 ppb
RT: 2.793 min Scan# 576
Delta R.T. 0.017 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 45 Resp: 46986

Ion	Ratio	Lower	Upper
45	100		
45	100.0	31.3	93.9#

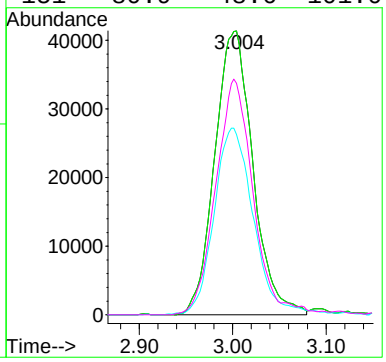


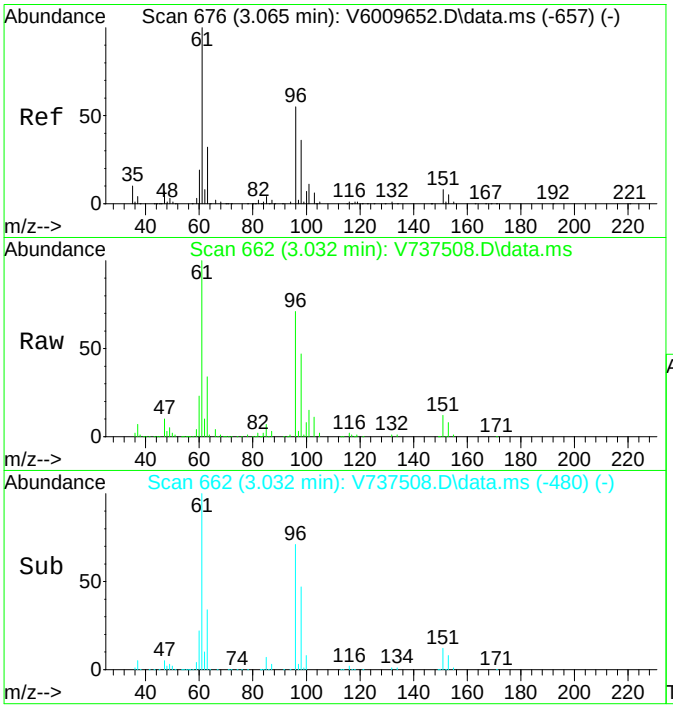


#9
Freon-113
Concen: 11.08 ppb
RT: 3.004 min Scan# 652
Delta R.T. 0.006 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:101 Resp: 117649

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.8	40.9	84.9
151	80.9	48.6	101.0

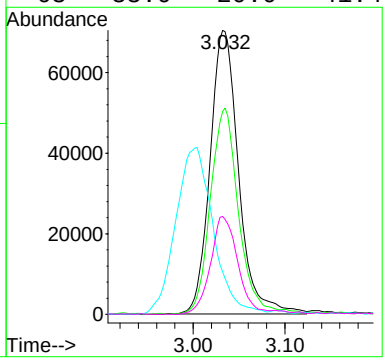


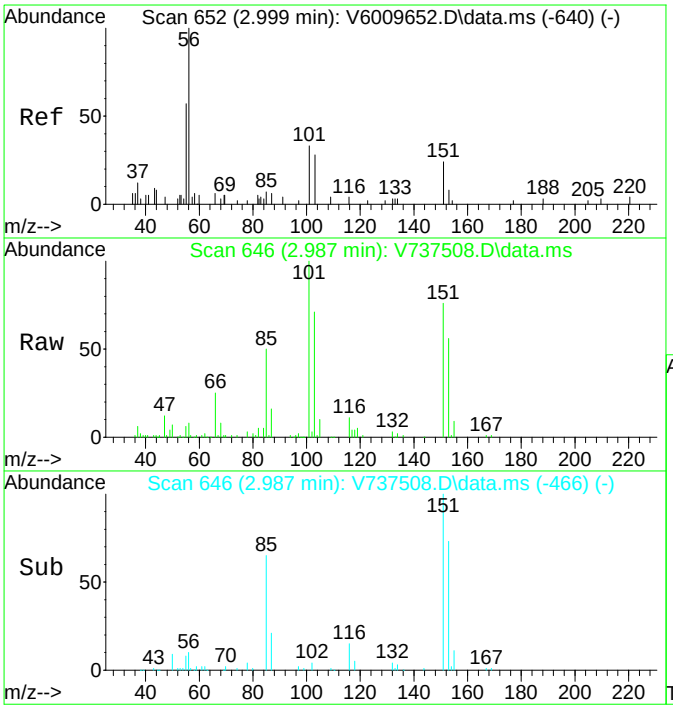


#10
1,1-Dichloroethylene
Concen: 10.80 ppb
RT: 3.032 min Scan# 662
Delta R.T. 0.006 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 61 Resp: 152470

Ion	Ratio	Lower	Upper
61	100		
96	71.2	33.9	70.3#
101	77.2	32.0	66.4#
63	33.0	20.0	41.4

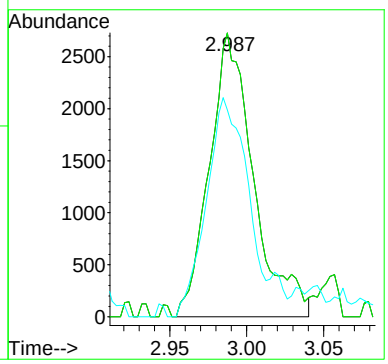


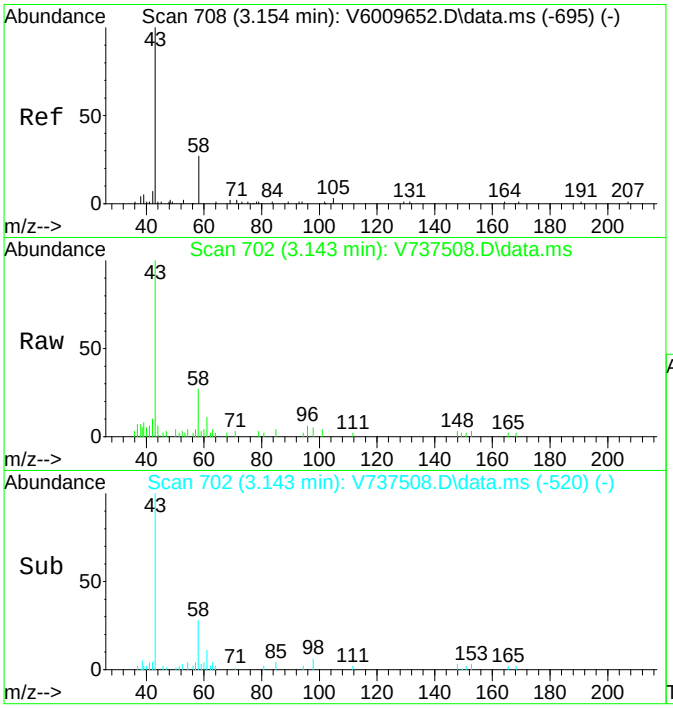


#11
Acrolein
Concen: 5.52 ppb
RT: 2.987 min Scan# 646
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 56 Resp: 5453

Ion	Ratio	Lower	Upper
56	100		
56	100.0	74.8	112.2
55	71.0	34.3	102.9

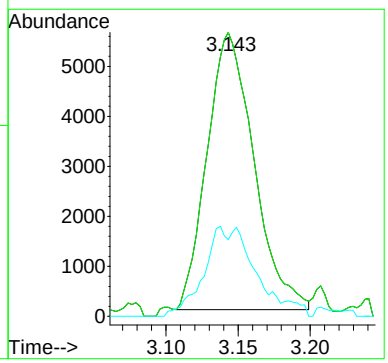


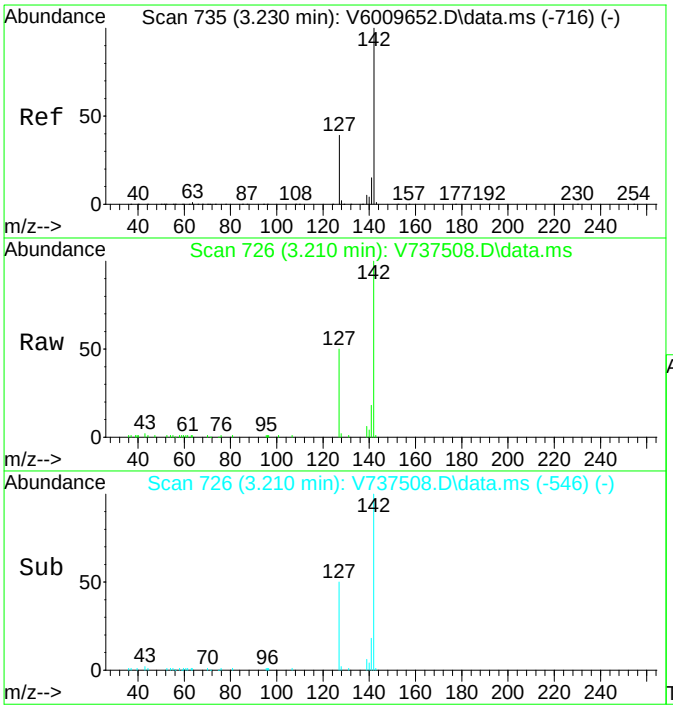


#12
Acetone
Concen: 8.10 ppb
RT: 3.143 min Scan# 702
Delta R.T. 0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 43 Resp: 12507

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	17.3	0.0	0.0#

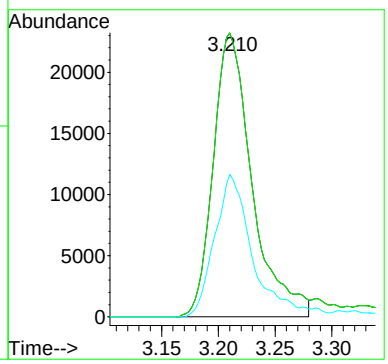


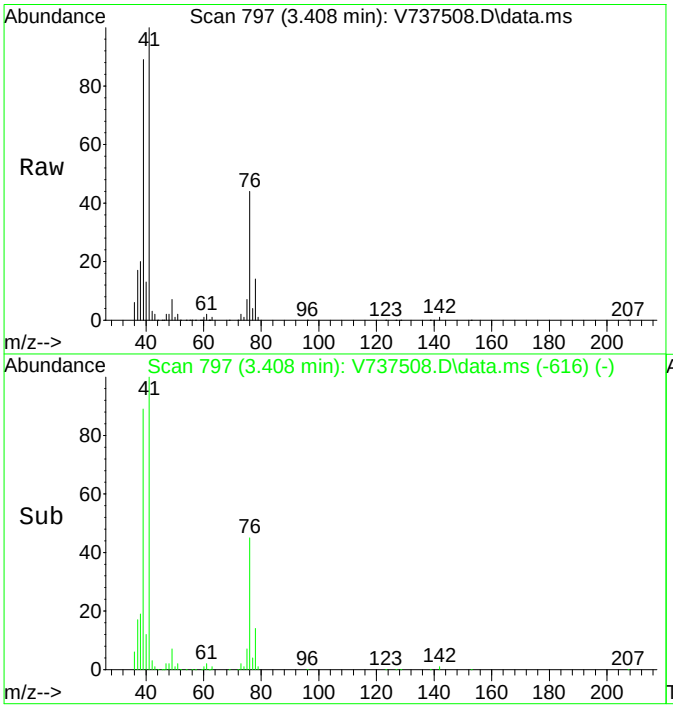


#13
Iodomethane
Concen: 21.92 ppb
RT: 3.210 min Scan# 726
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:142 Resp: 55246

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	48.7	20.9	62.8

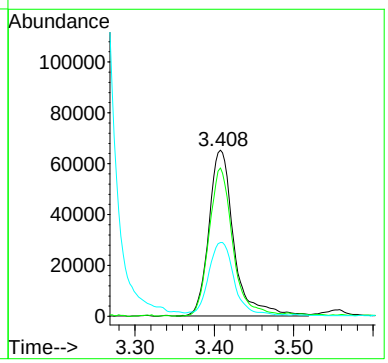


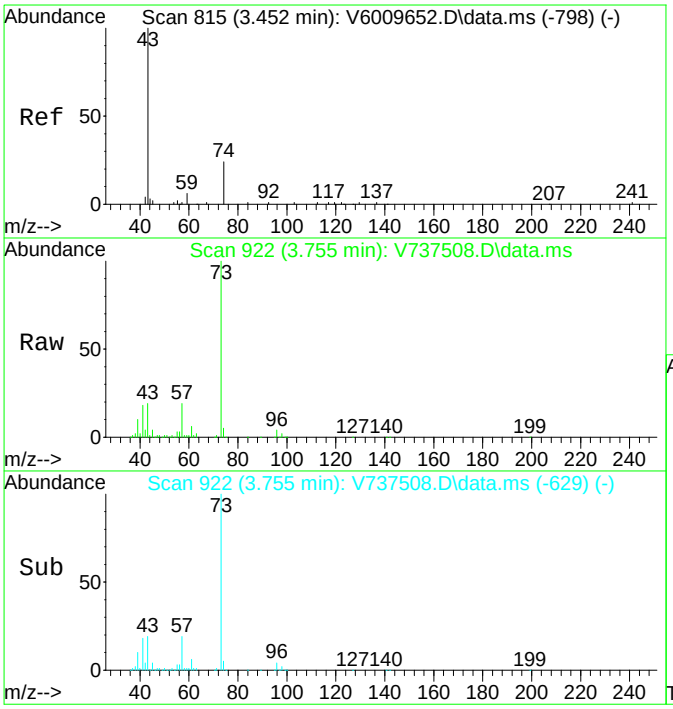


#14
Ally Chloride
Concen: 11.06 ppb
RT: 3.408 min Scan# 797
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 41 Resp: 143330

Ion	Ratio	Lower	Upper
41	100		
39	84.4	54.5	81.7#
76	43.2	24.3	36.5#

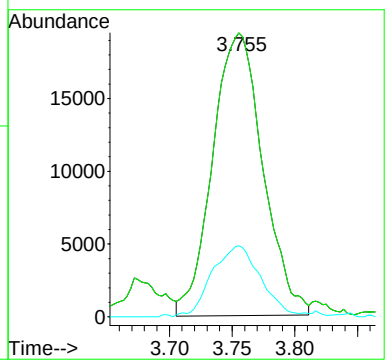


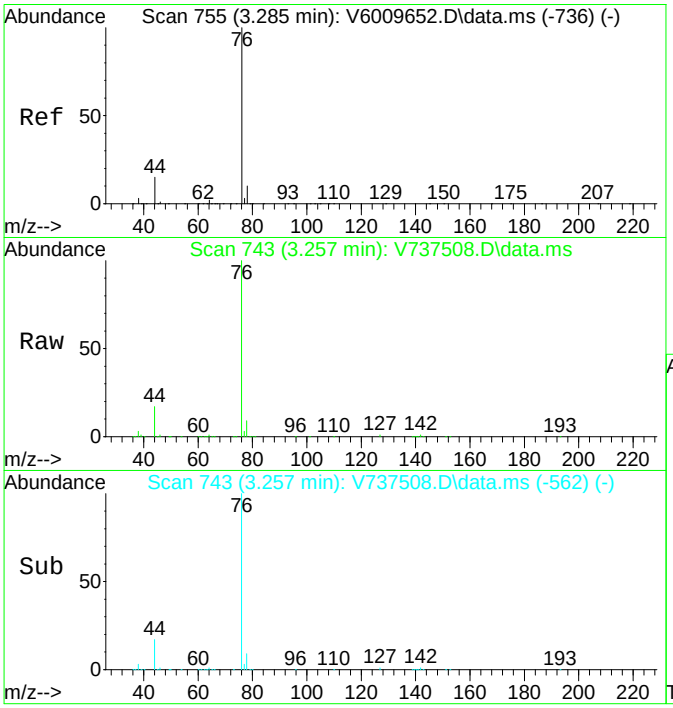


#15
Methyl Acetate
Concen: 14.17 ppb
RT: 3.755 min Scan# 922
Delta R.T. 0.314 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 43 Resp: 54182

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	24.2	8.5	25.5

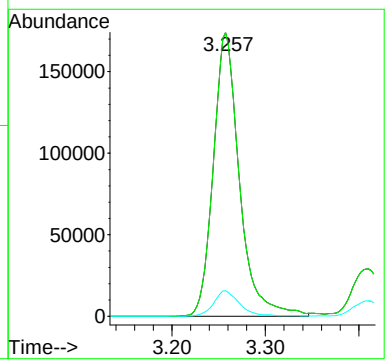


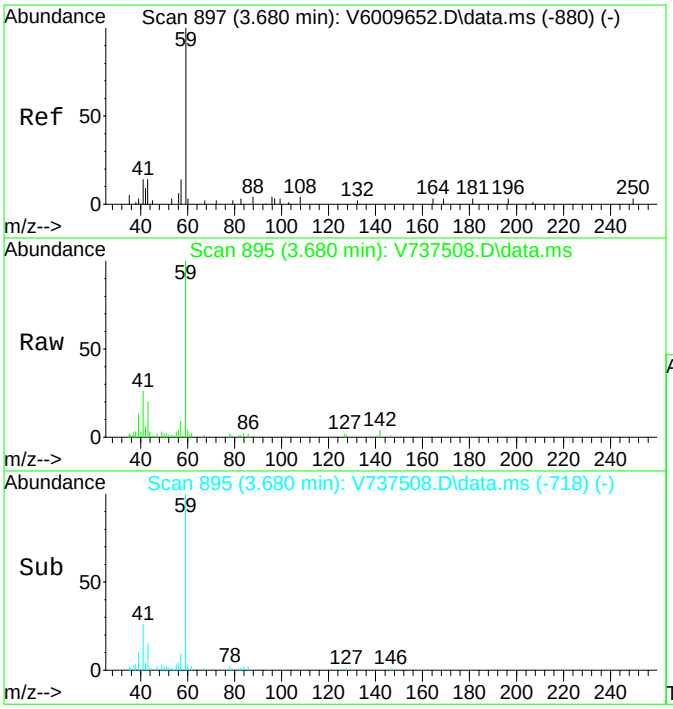


#16
Carbon disulfide
Concen: 10.91 ppb
RT: 3.257 min Scan# 743
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 76 Resp: 338589

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	8.7	4.5	13.5

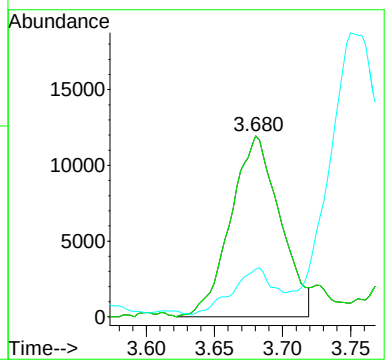


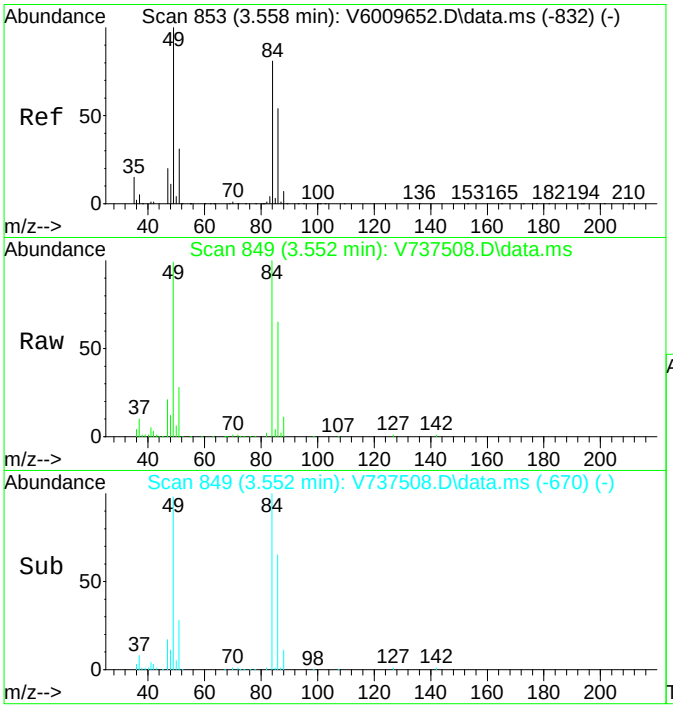


#17
tert-Butyl Alcohol (TBA)
Concen: 47.19 ppb
RT: 3.680 min Scan# 895
Delta R.T. -0.009 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 59 Resp: 30077

Ion	Ratio	Lower	Upper
59	100		
59	100.0	65.0	135.0
41	22.2	0.0	0.0#

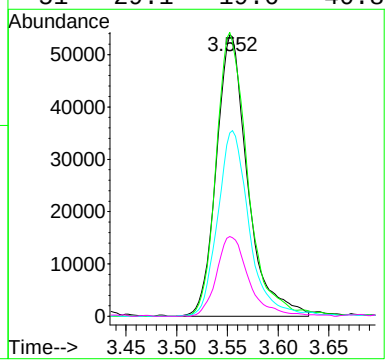


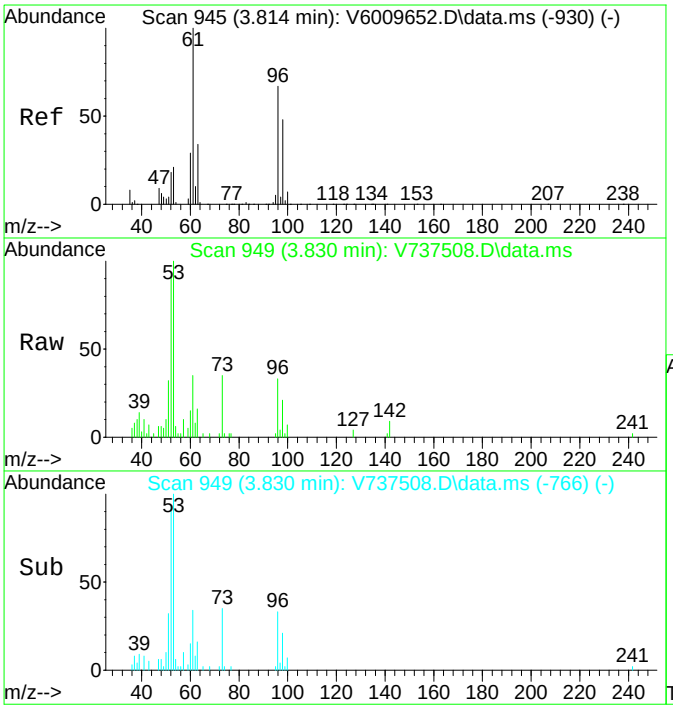


#18
Methylene Chloride
Concen: 10.71 ppb
RT: 3.552 min Scan# 849
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 49 Resp: 115896

Ion	Ratio	Lower	Upper
49	100		
84	100.2	38.0	78.8#
86	65.7	24.0	49.8#
51	29.1	19.6	40.8

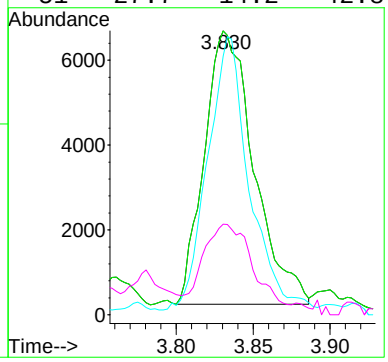


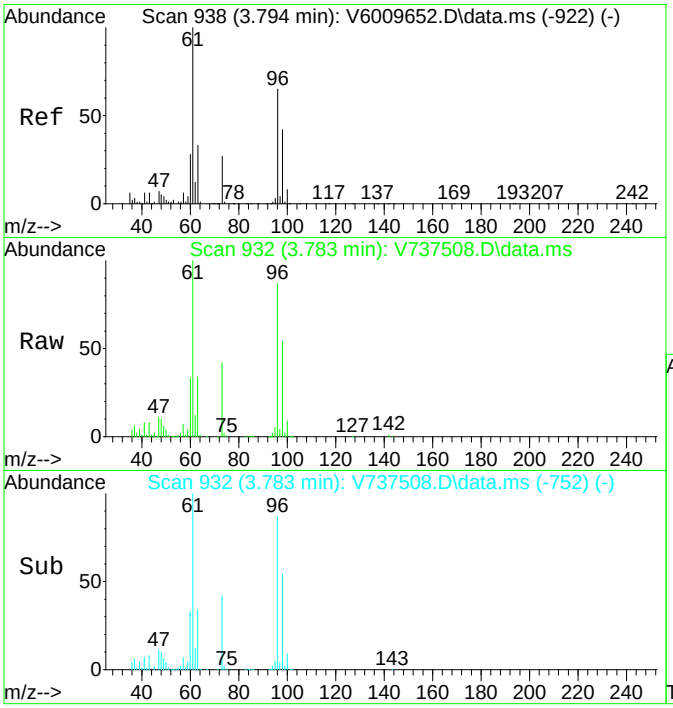


#19
Acrylonitrile
Concen: 9.87 ppb
RT: 3.830 min Scan# 949
Delta R.T. 0.008 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 53 Resp: 14445

Ion	Ratio	Lower	Upper
53	100		
53	100.0	62.2	93.4#
52	0.0	0.0	0.0
51	27.7	14.2	42.8

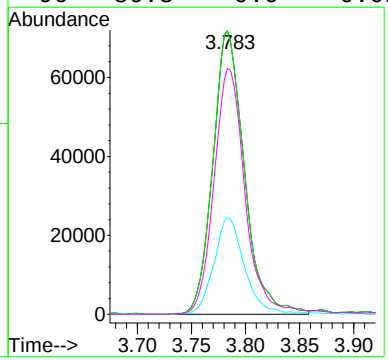


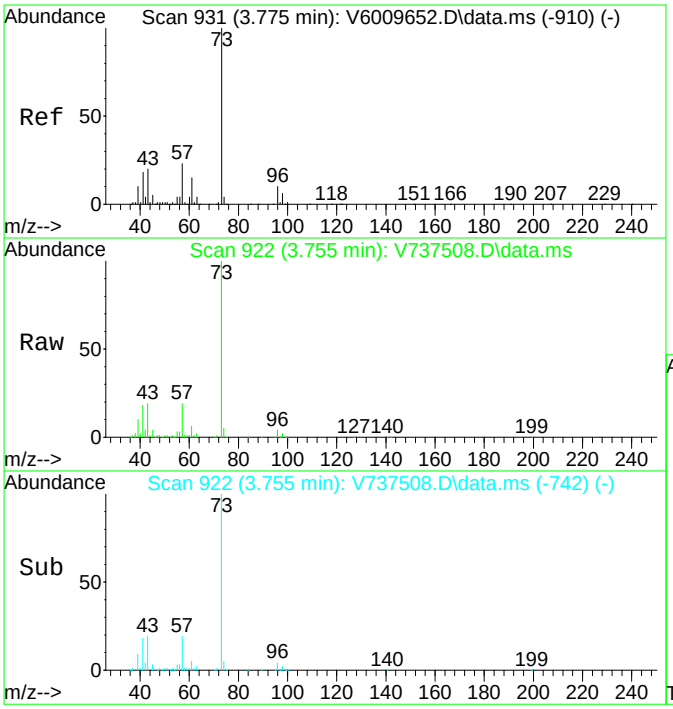


#20
trans-1,2-Dichloroethylene
Concen: 11.05 ppb
RT: 3.783 min Scan# 932
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 61 Resp: 145007

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	33.0	0.0	0.0#
96	86.3	0.0	0.0#

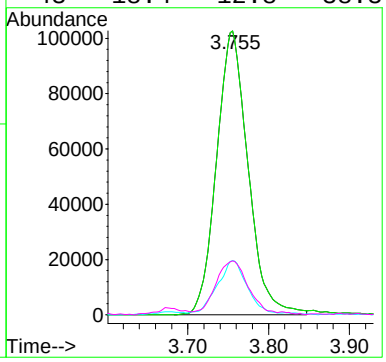


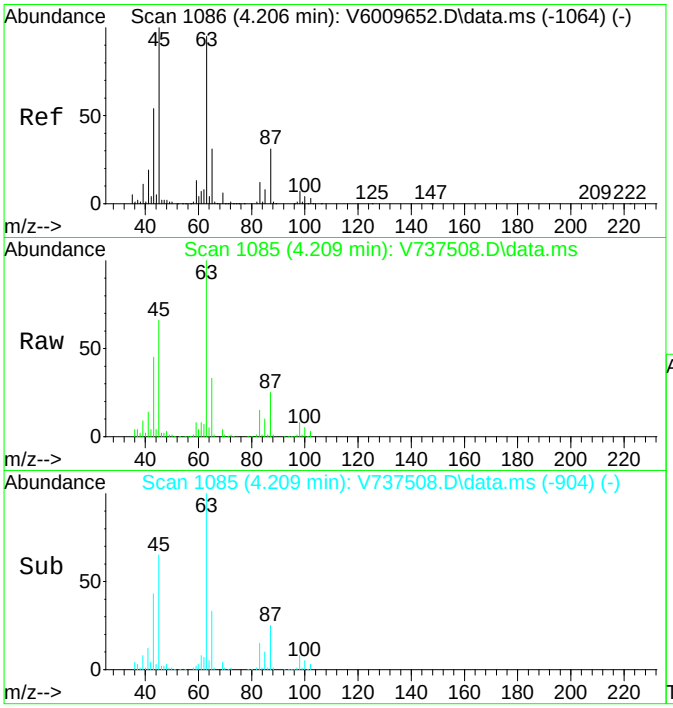


#21
tert-Butyl Methyl Ether (MTBE)
Concen: 10.49 ppb
RT: 3.755 min Scan# 922
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 73 Resp: 278189

Ion	Ratio	Lower	Upper
73	100		
73	100.0	80.0	120.0
57	16.9	13.2	39.5
43	18.4	12.8	38.3

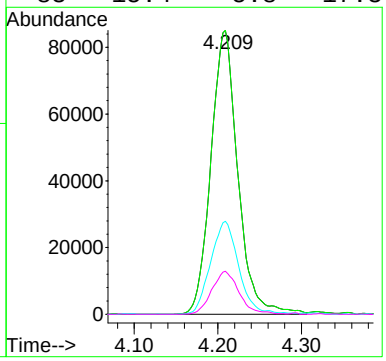


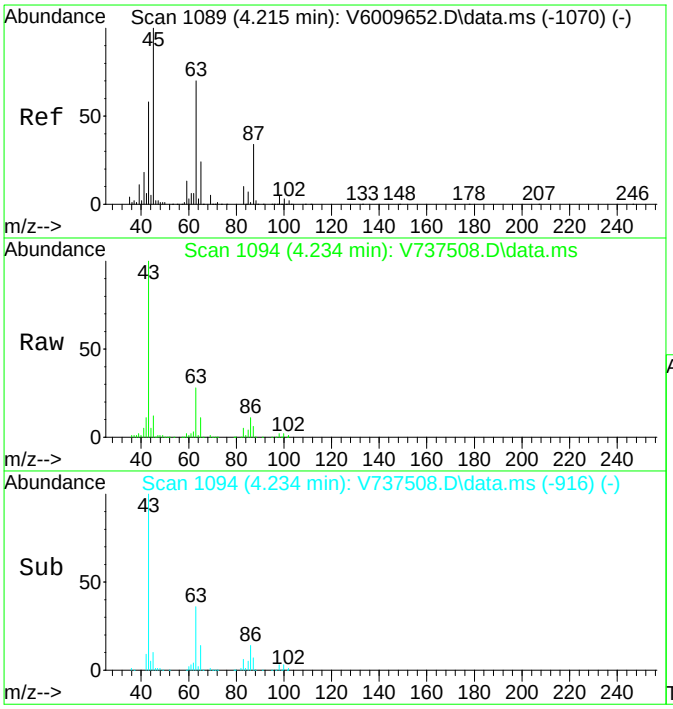


#22
1,1-Dichloroethane
Concen: 10.07 ppb
RT: 4.209 min Scan# 1085
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 63 Resp: 190626

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	34.1	19.9	41.3
83	15.4	5.8	17.3

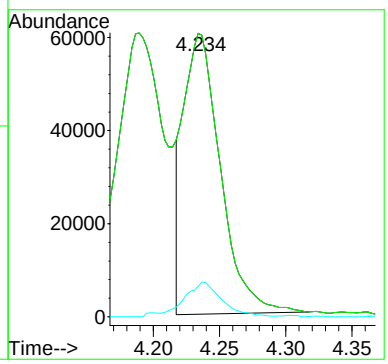


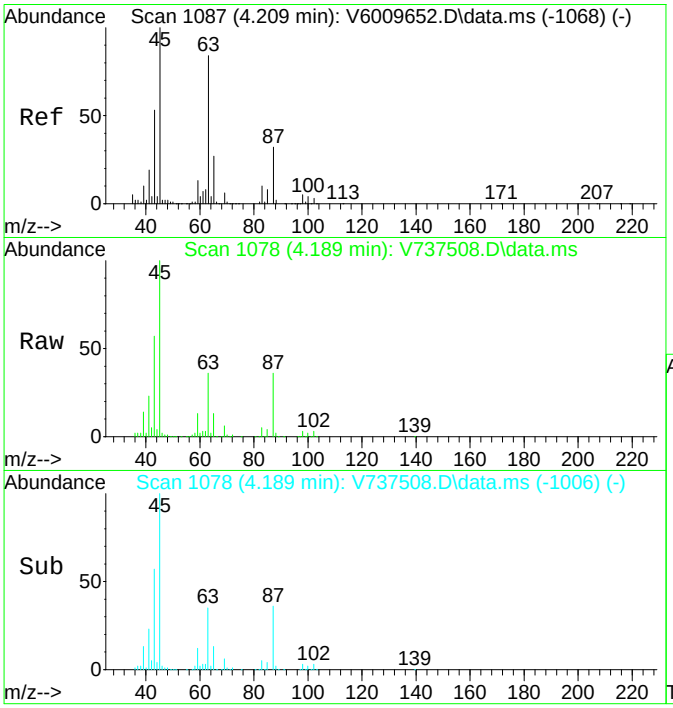


#23
Vinyl Acetate
Concen: 8.30 ppb
RT: 4.234 min Scan# 1094
Delta R.T. -0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 43 Resp: 117408

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
86	12.3	0.0	0.0#

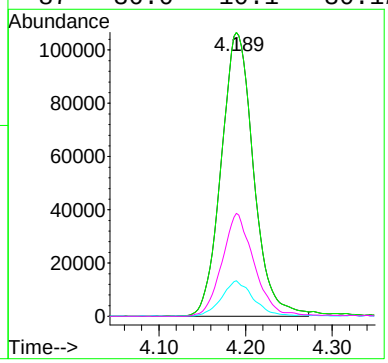


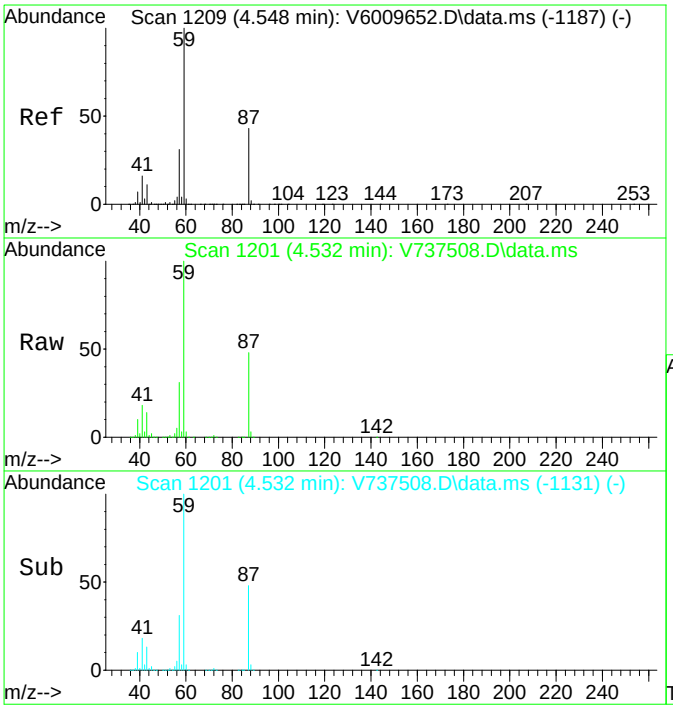


#24
Diisopropyl ether (DIPE)
Concen: 10.16 ppb
RT: 4.189 min Scan# 1078
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 45 Resp: 276771

Ion	Ratio	Lower	Upper
45	100		
45	100.0	80.0	120.0
59	12.0	5.1	15.3
87	36.0	10.1	30.1#

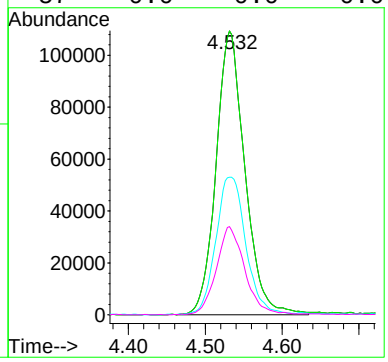


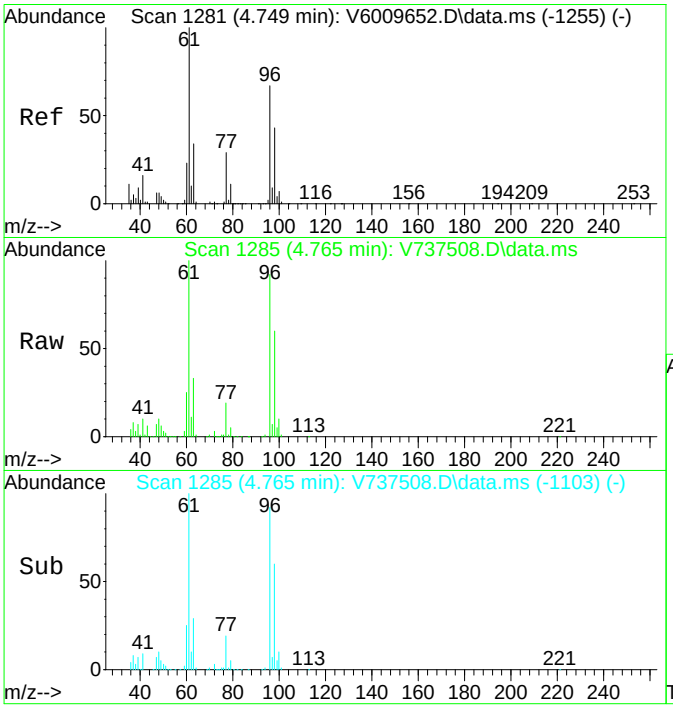


#25
Ethyl-tert-Butyl ether (ETBE)
Concen: 11.03 ppb
RT: 4.532 min Scan# 1201
Delta R.T. -0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 59 Resp: 285030

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
87	50.7	17.0	51.0
57	0.0	0.0	0.0

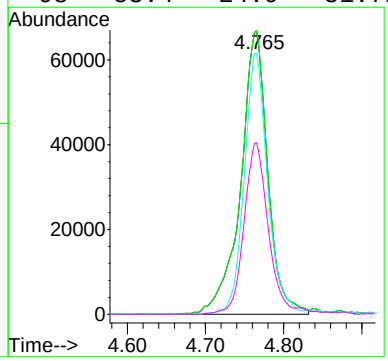


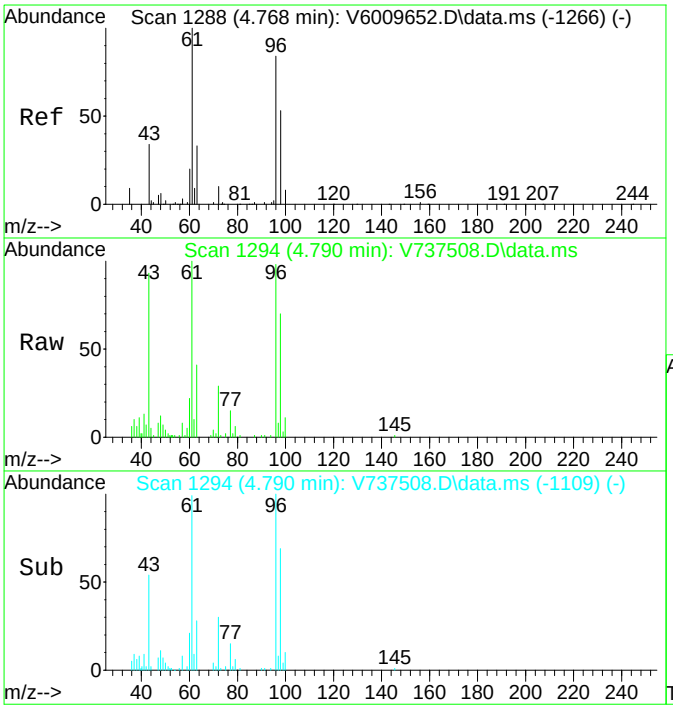


#26
cis-1,2-Dichloroethylene
Concen: 10.56 ppb
RT: 4.765 min Scan# 1285
Delta R.T. 0.006 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 61 Resp: 161624

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	79.3	37.8	78.4#
98	53.4	24.9	51.7#

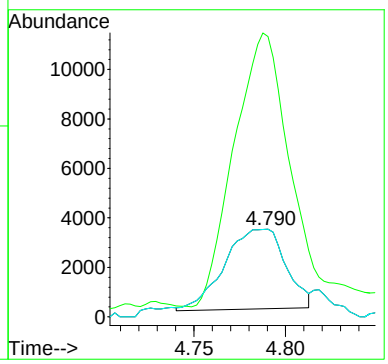


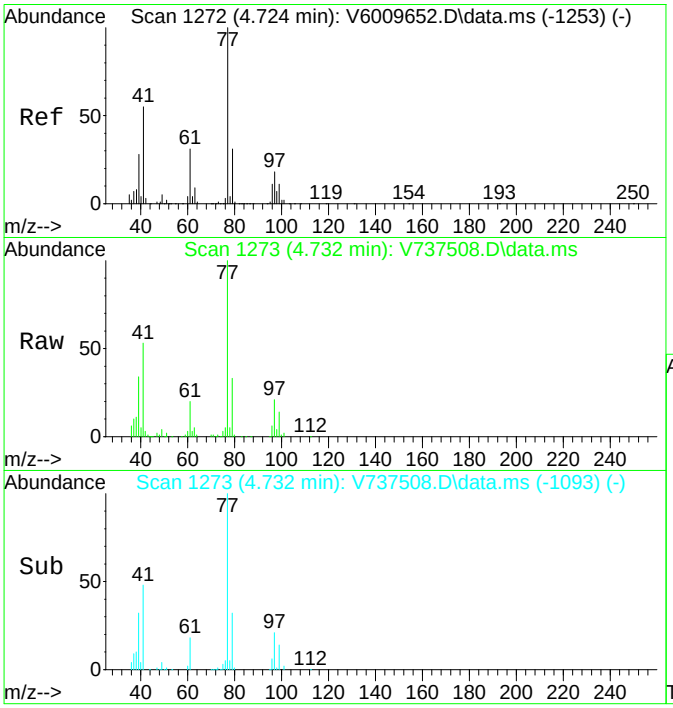


#27
2-Butanone
Concen: 7.91 ppb
RT: 4.790 min Scan# 1294
Delta R.T. 0.014 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 72 Resp: 7499

Ion	Ratio	Lower	Upper
72	100		
43	323.6	0.0	0.0#
72	100.0	50.0	150.0

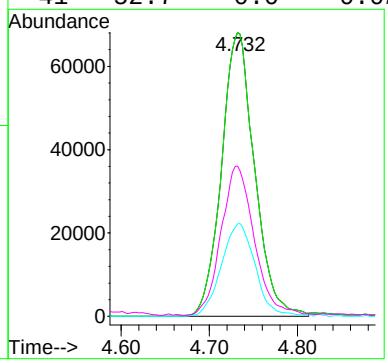


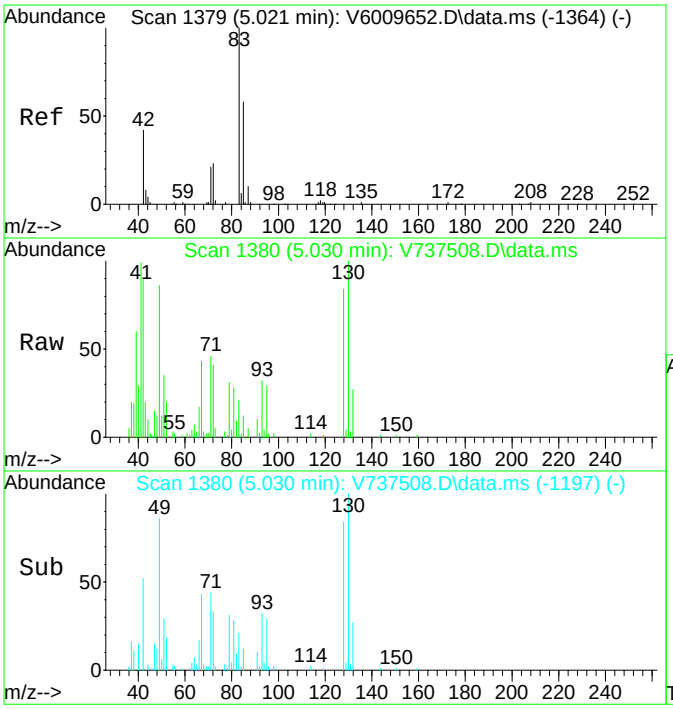


#28
2,2-Dichloropropane
Concen: 11.10 ppb
RT: 4.732 min Scan# 1273
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 77 Resp: 177449

Ion	Ratio	Lower	Upper
77	100		
77	100.0	80.0	120.0
79	0.0	20.9	43.5#
41	52.7	0.0	0.0#

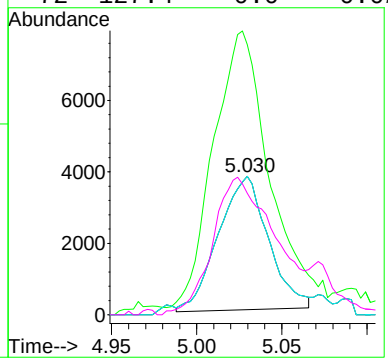


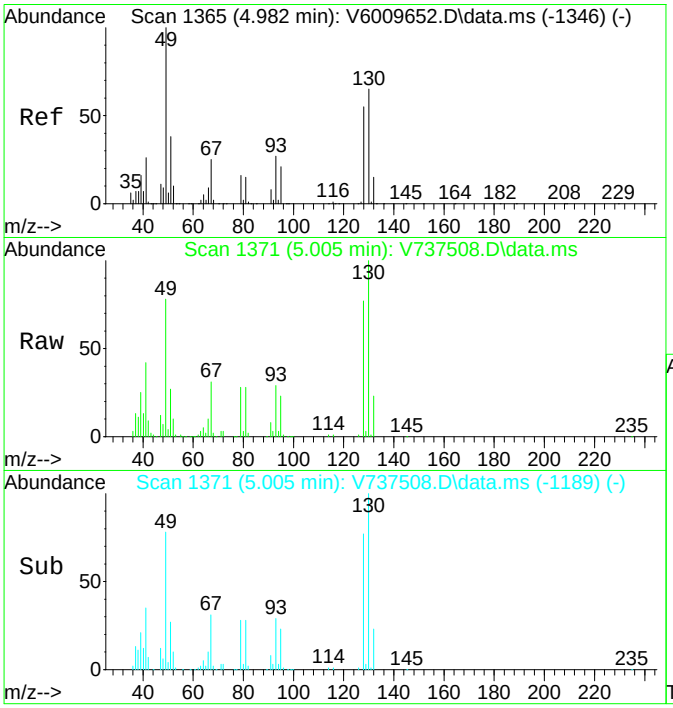


#29
Tetrahydrofuran
Concen: 8.37 ppb
RT: 5.030 min Scan# 1380
Delta R.T. 0.009 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 71 Resp: 7639

Ion	Ratio	Lower	Upper
71	100		
42	233.3	279.2	418.8#
71	100.0	50.0	150.0
72	127.4	0.0	0.0#

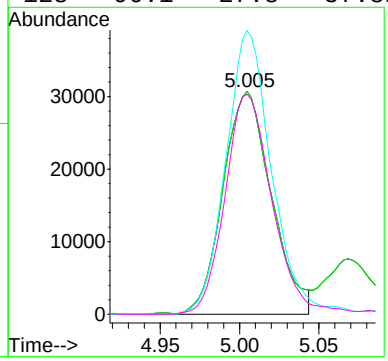


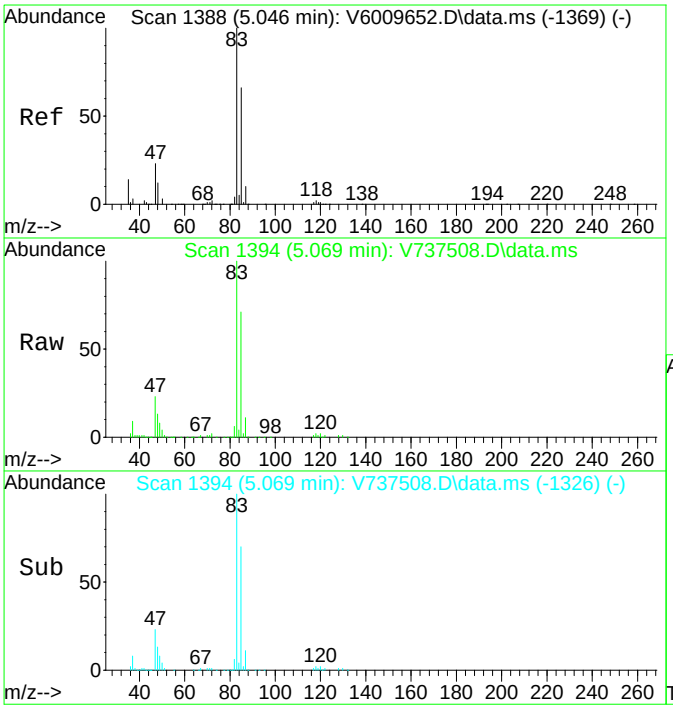


#30
Bromochloromethane
Concen: 9.55 ppb
RT: 5.005 min Scan# 1371
Delta R.T. 0.006 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 49 Resp: 65092

Ion	Ratio	Lower	Upper
49	100		
49	100.0	65.0	135.0
130	120.9	35.7	74.1#
128	96.1	27.8	57.8#

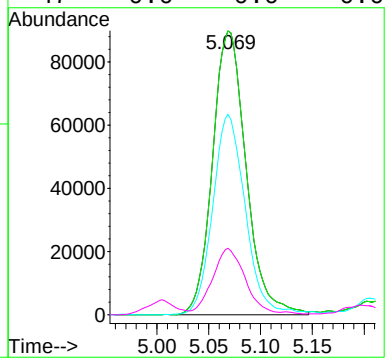


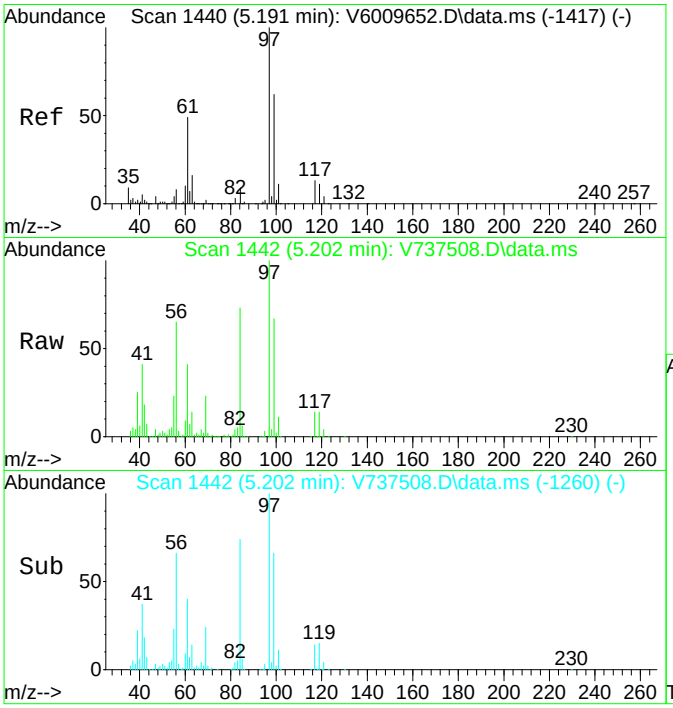


#31
Chloroform
Concen: 9.94 ppb
RT: 5.069 min Scan# 1394
Delta R.T. -0.011 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 83 Resp: 203143

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	68.7	41.8	86.8
47	0.0	0.0	0.0

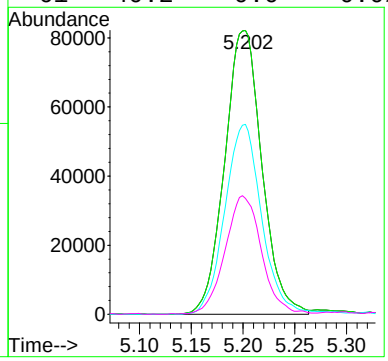


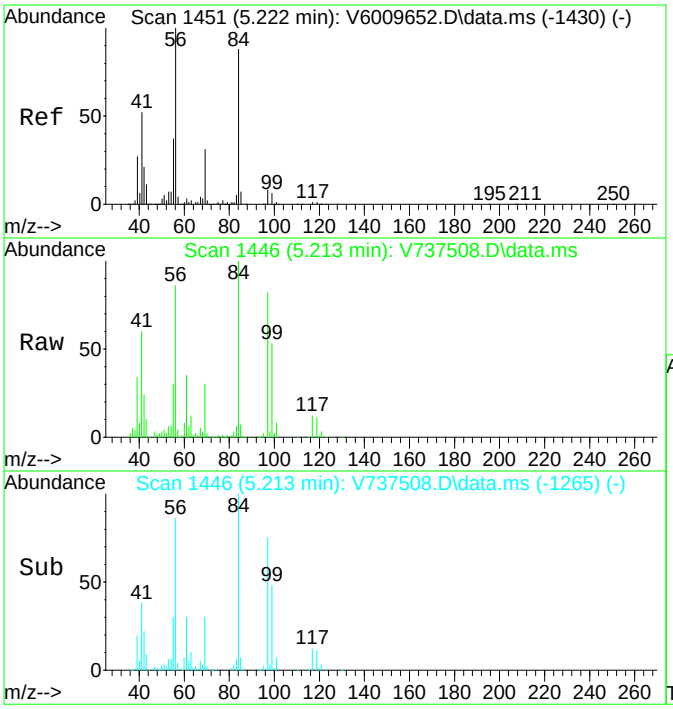


#32
1,1,1-Trichloroethane
Concen: 10.93 ppb
RT: 5.202 min Scan# 1442
Delta R.T. 0.006 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 97 Resp: 205765

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	0.0	42.3	87.9#
61	40.2	0.0	0.0#

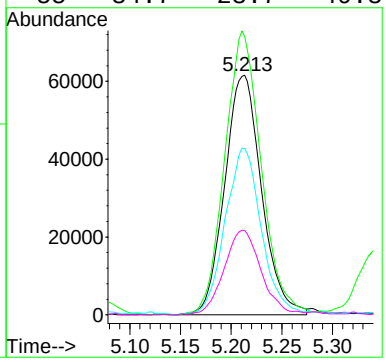


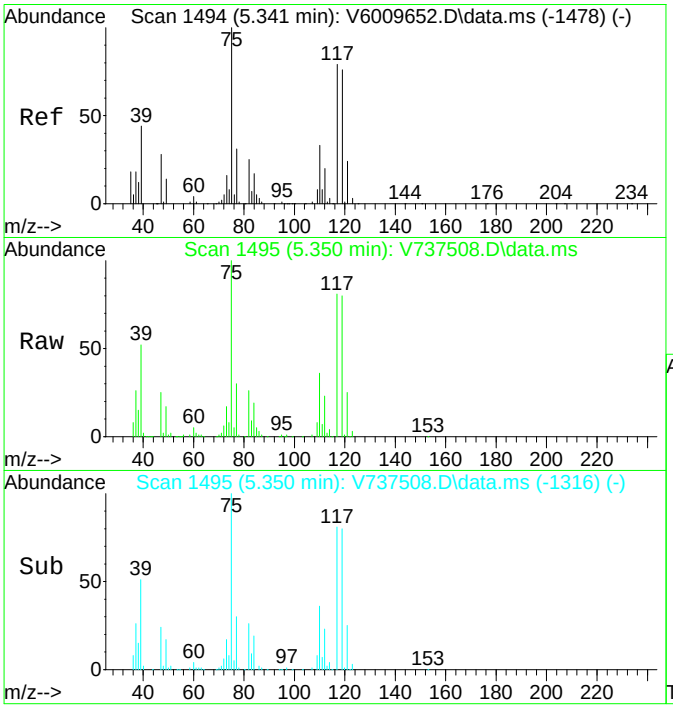


#33
Cyclohexane
Concen: 10.99 ppb
RT: 5.213 min Scan# 1446
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 56 Resp: 155826

Ion	Ratio	Lower	Upper
56	100		
84	116.9	44.2	91.8#
41	68.0	37.9	78.7
55	34.7	23.7	49.3

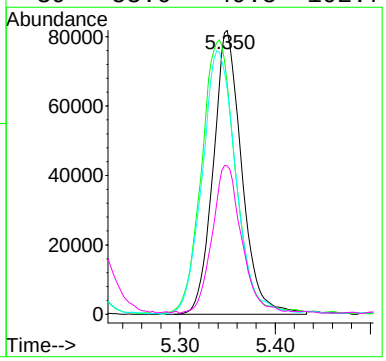


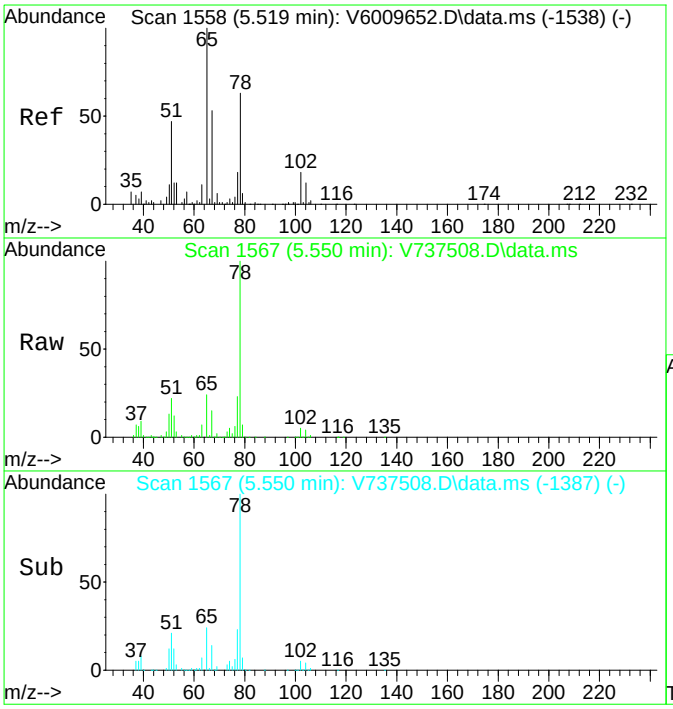


#34
1,1-Dichloropropylene
Concen: 10.27 ppb
RT: 5.350 min Scan# 1495
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 75 Resp: 170431

Ion	Ratio	Lower	Upper
75	100		
117	113.8	65.3	135.5
119	109.8	62.6	130.0
39	53.0	49.5	102.7

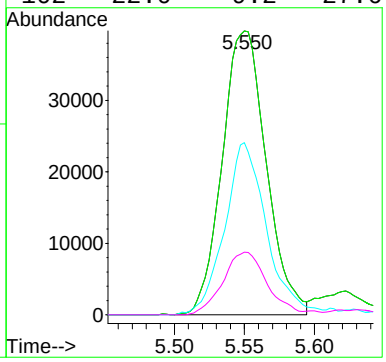


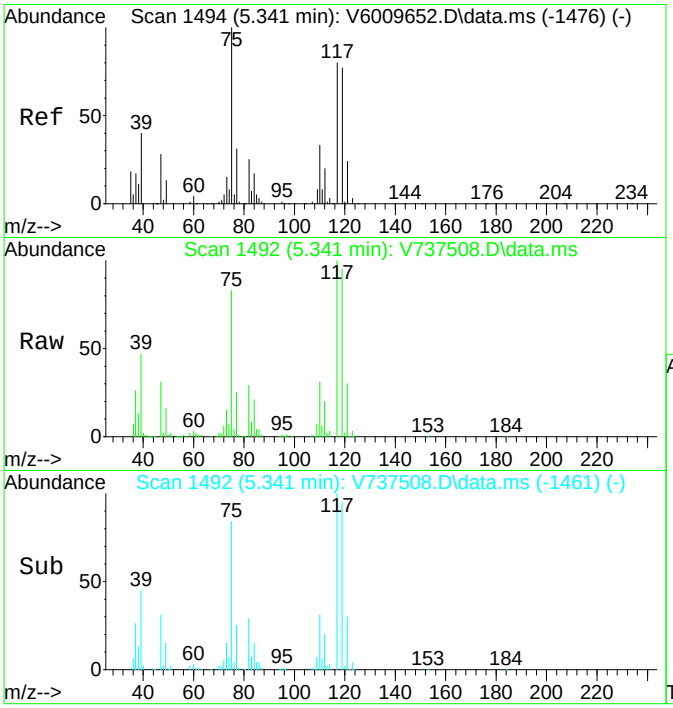


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.61 ppb
RT: 5.550 min Scan# 1567
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 65 Resp: 86640

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	57.6	33.0	68.6
102	22.0	9.2	27.6

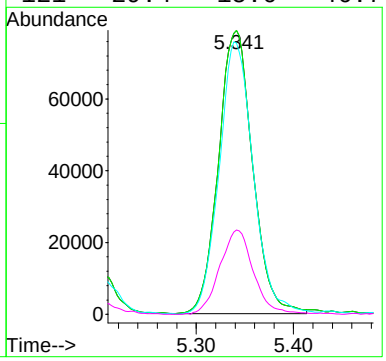


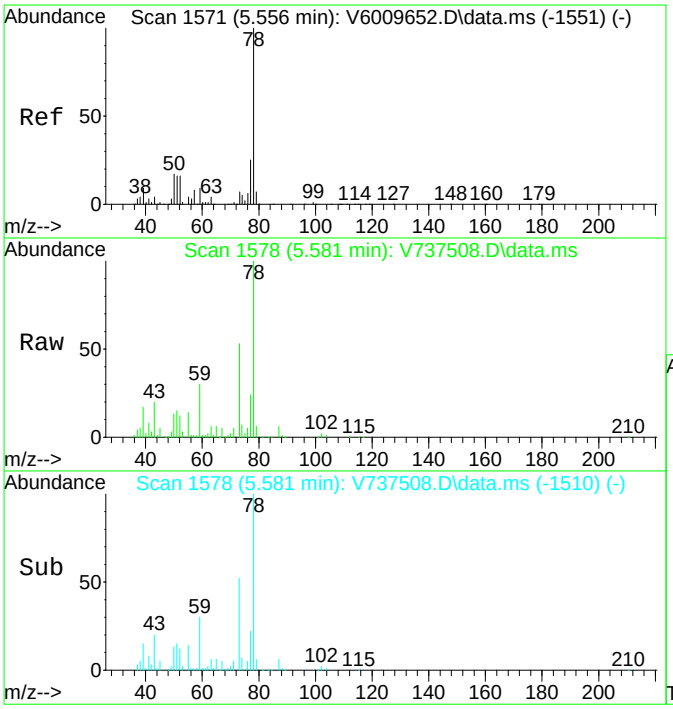


#36
Carbon Tetrachloride
Concen: 10.28 ppb
RT: 5.341 min Scan# 1492
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:117 Resp: 193971

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	0.0	62.3	129.5#
121	29.4	15.6	46.7

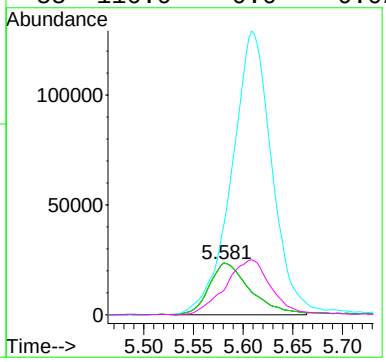


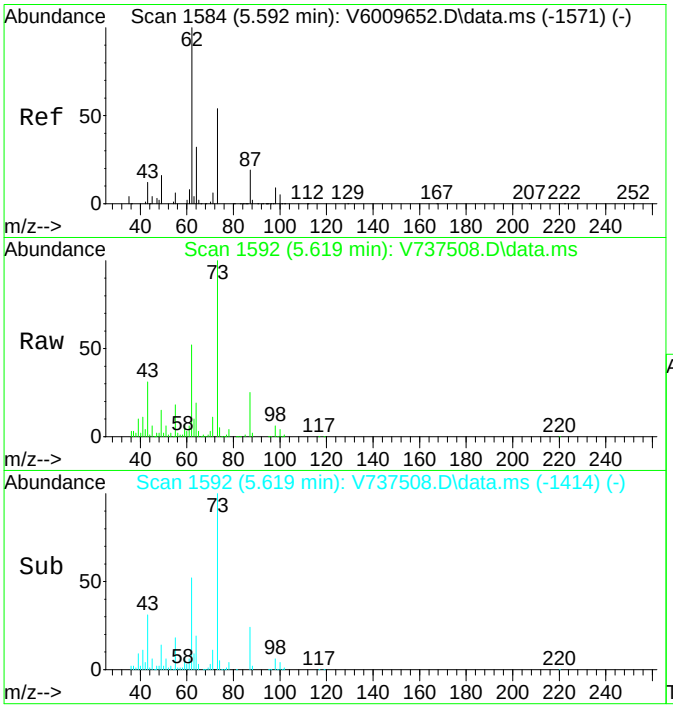


#37
tert-Amyl alcohol (TAA)
Concen: 103.26 ppb
RT: 5.581 min Scan# 1578
Delta R.T. -0.011 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 59 Resp: 68100

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
73	535.8	22.9	68.5#
55	116.0	0.0	0.0#

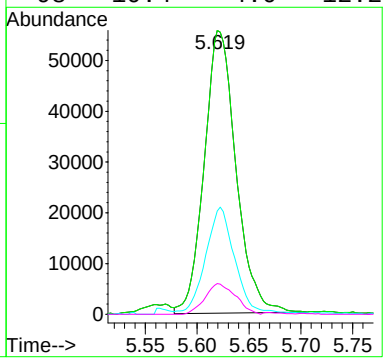


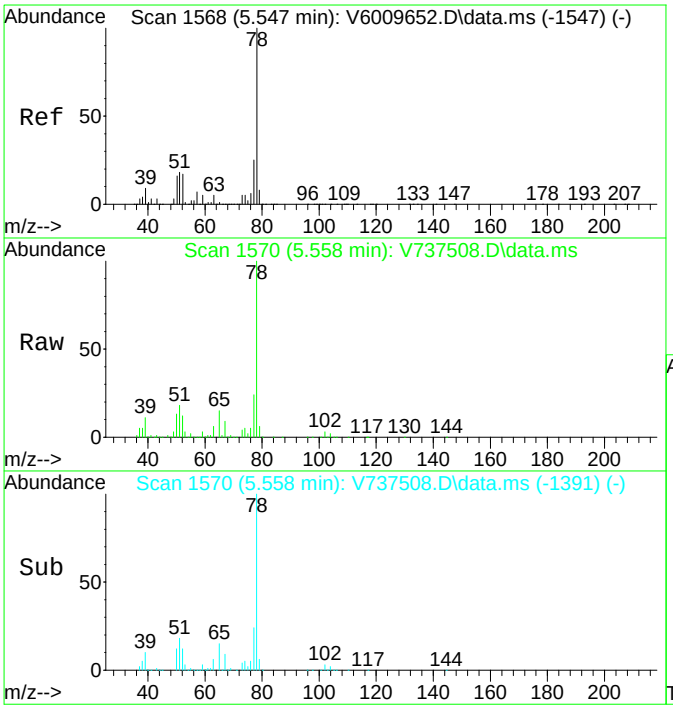


#38
1,2-Dichloroethane
Concen: 10.31 ppb
RT: 5.619 min Scan# 1592
Delta R.T. -0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 62 Resp: 118878

Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	34.3	15.2	45.6
98	10.4	4.0	12.2

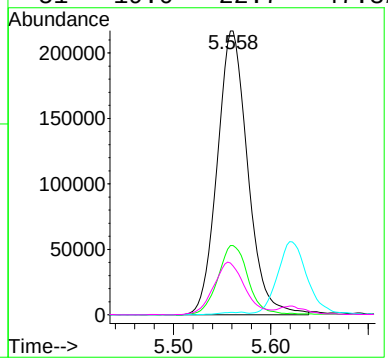


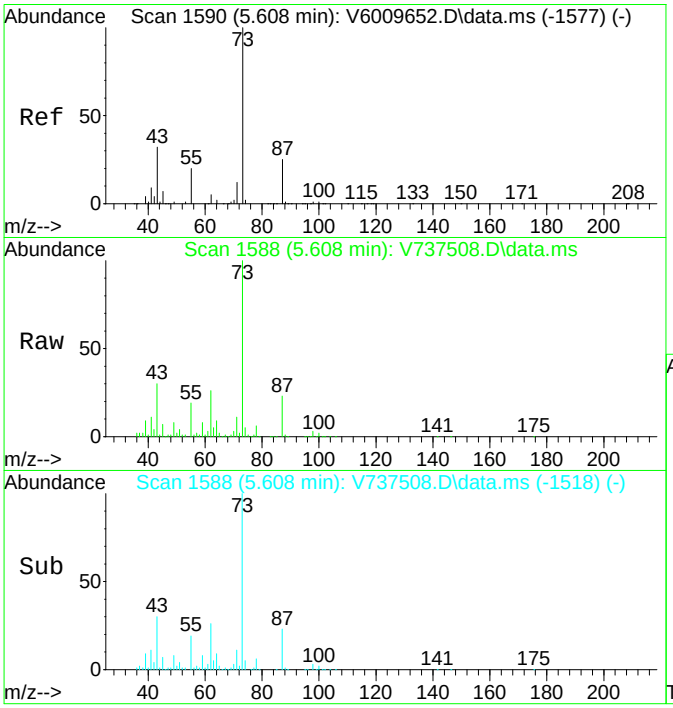


#39
Benzene
Concen: 10.53 ppb
RT: 5.558 min Scan# 1570
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 78 Resp: 472854

Ion	Ratio	Lower	Upper
78	100		
77	24.3	14.7	30.5
62	0.0	19.2	39.8#
51	19.0	22.7	47.3#

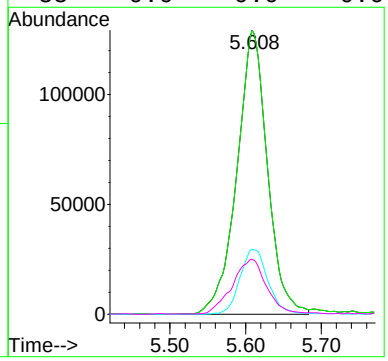


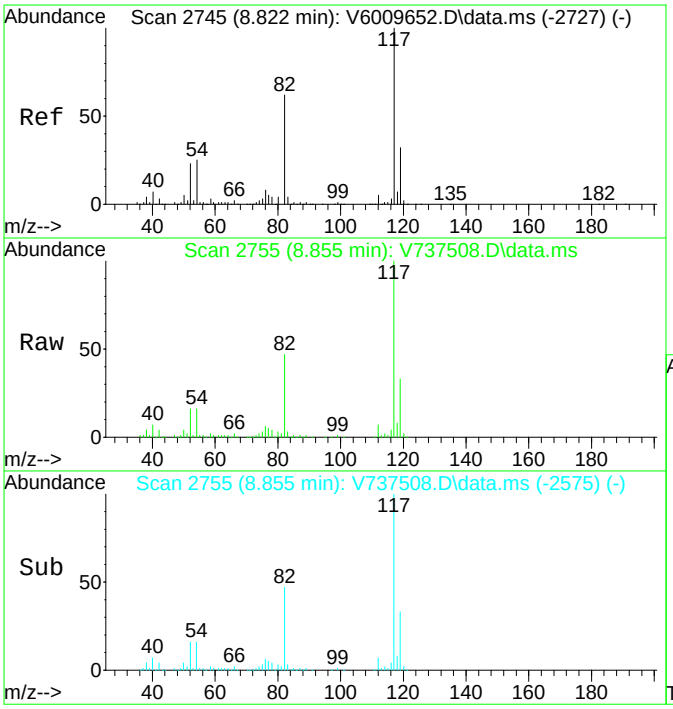


#40
tert-Amyl methyl ether (TAME)
Concen: 10.93 ppb
RT: 5.608 min Scan# 1588
Delta R.T. -0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 73 Resp: 364884

Ion	Ratio	Lower	Upper
73	100		
73	100.0	79.6	119.4
87	21.2	11.9	35.5
55	0.0	0.0	0.0

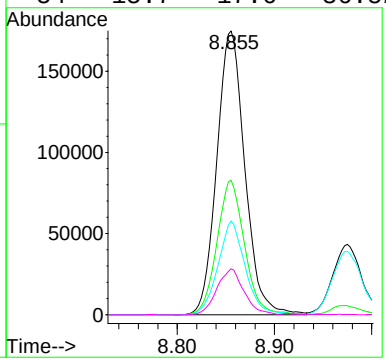


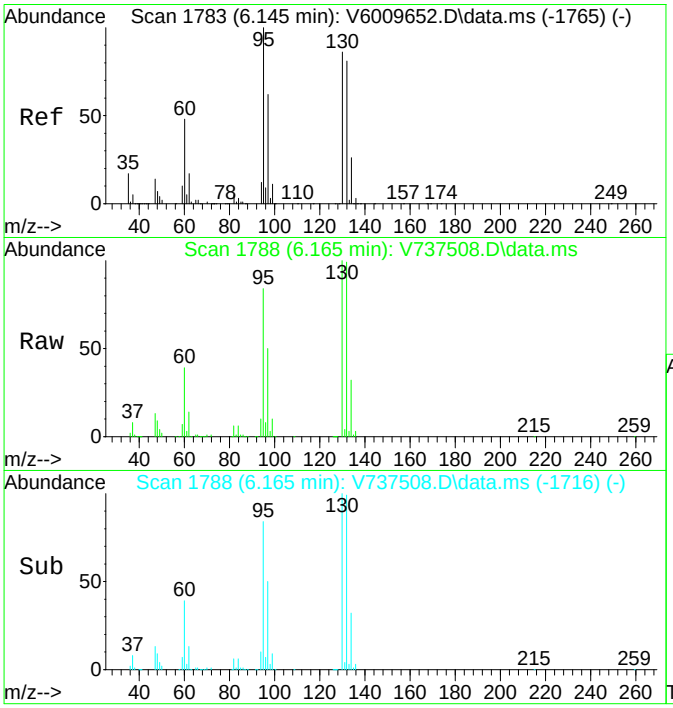


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:117 Resp: 350704

Ion	Ratio	Lower	Upper
117	100		
82	46.6	35.9	74.7
119	32.0	20.8	43.2
54	15.7	17.6	36.5#

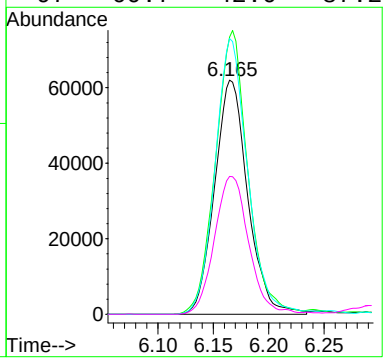


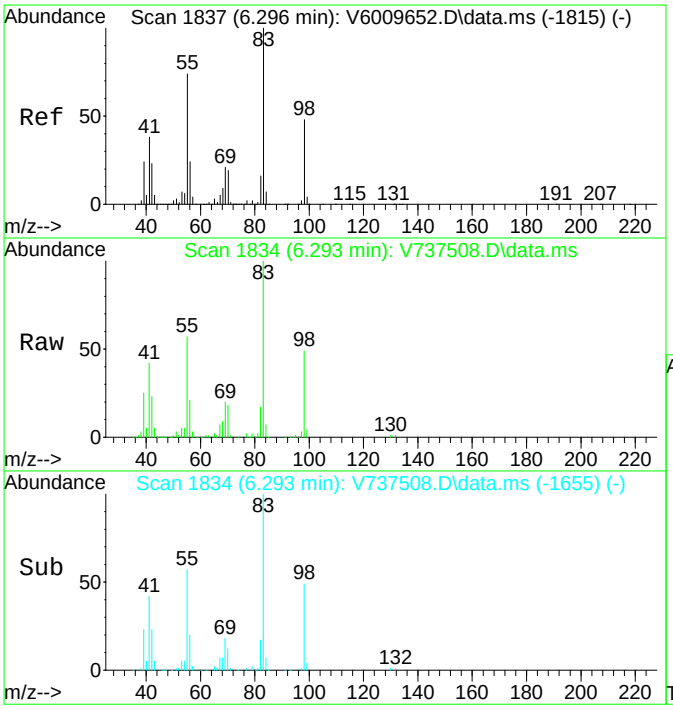


#42
Trichloroethylene
Concen: 10.29 ppb
RT: 6.165 min Scan# 1788
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 95 Resp: 129022

Ion	Ratio	Lower	Upper
95	100		
130	118.4	61.1	126.9
132	115.6	62.0	128.8
97	60.7	42.0	87.2

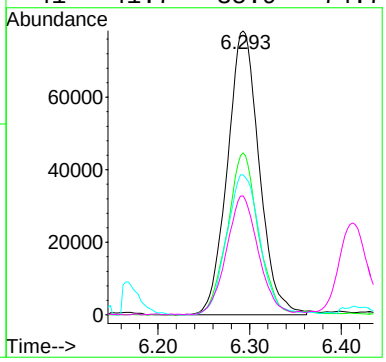


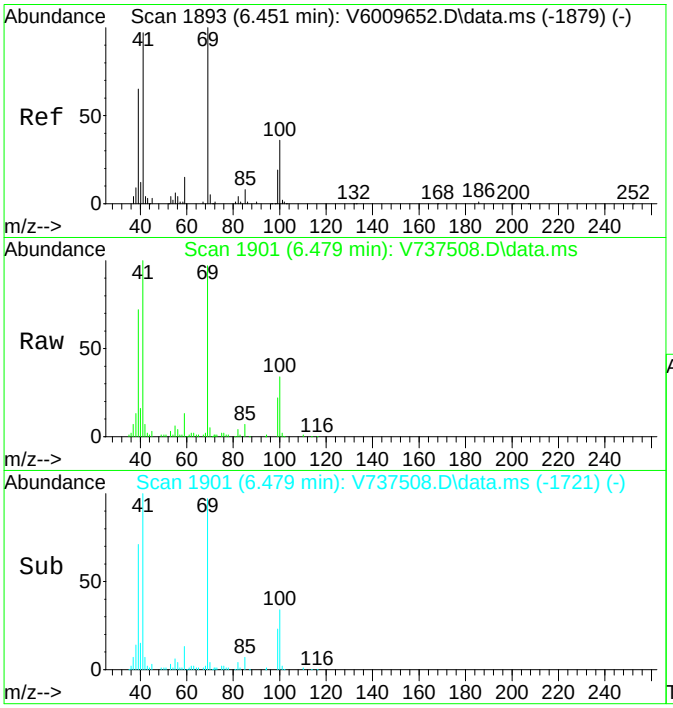


#43
Methyl Cyclohexane
Concen: 10.93 ppb
RT: 6.293 min Scan# 1834
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 83 Resp: 188989

Ion	Ratio	Lower	Upper
83	100		
55	55.2	65.5	136.1#
98	51.8	31.0	64.4
41	41.7	35.9	74.7

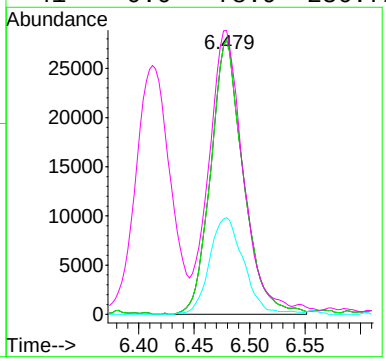


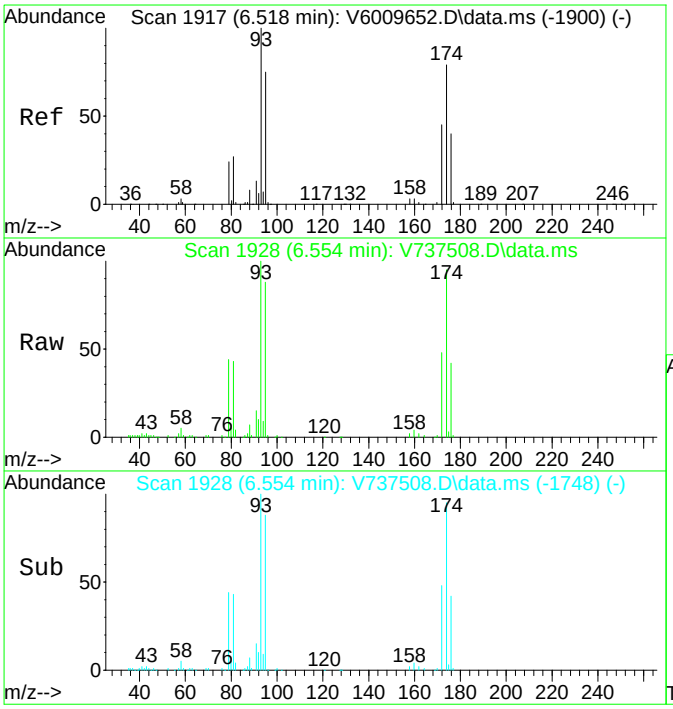


#44
Methyl Methacrylate
Concen: 10.33 ppb
RT: 6.479 min Scan# 1901
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 69 Resp: 57068

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	36.5	0.0	0.0#
41	0.0	78.9	236.7#

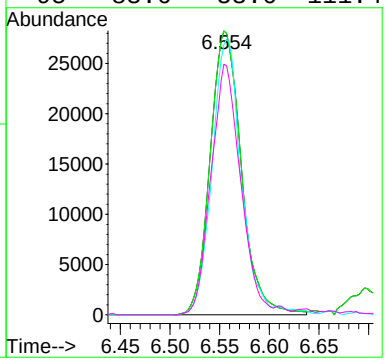


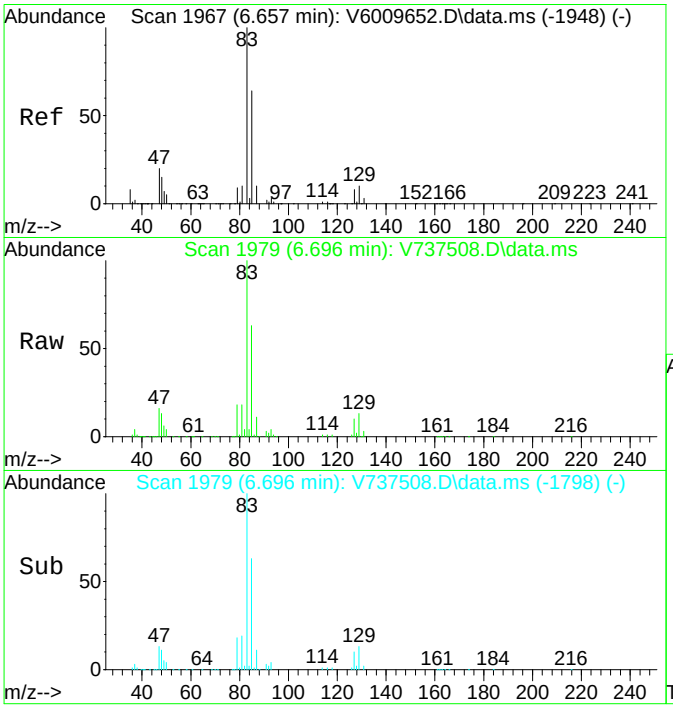


#45
Dibromomethane
Concen: 9.61 ppb
RT: 6.554 min Scan# 1928
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 93 Resp: 61814

Ion	Ratio	Lower	Upper
93	100		
93	100.0	65.0	135.0
174	89.6	60.5	125.6
95	83.6	53.6	111.4

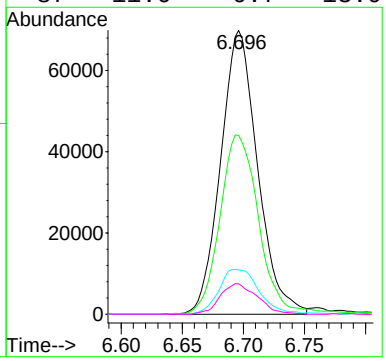


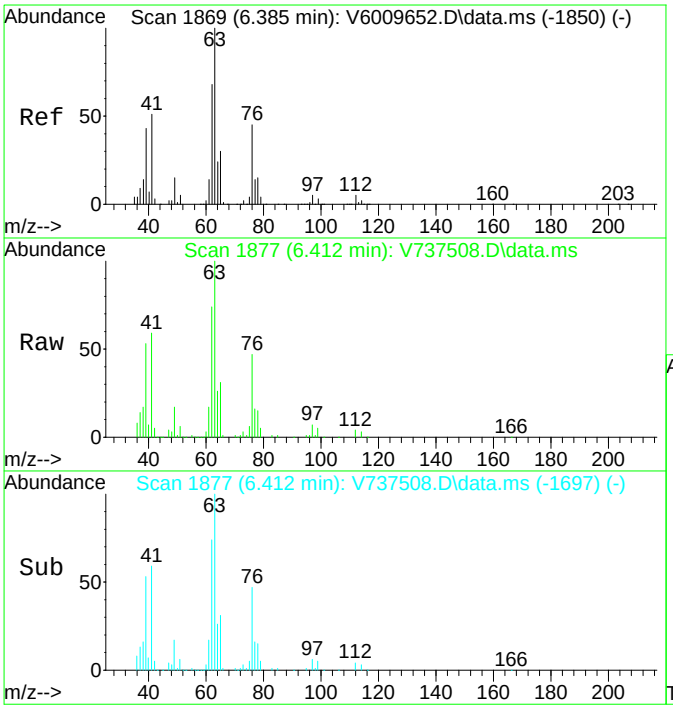


#46
Bromodichloromethane
Concen: 10.29 ppb
RT: 6.696 min Scan# 1979
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 83 Resp: 146882

Ion	Ratio	Lower	Upper
83	100		
85	65.6	41.0	85.0
47	17.2	15.9	33.1
87	11.0	6.7	13.9

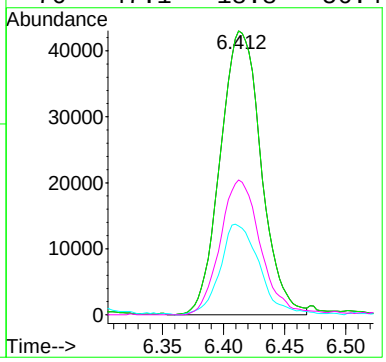


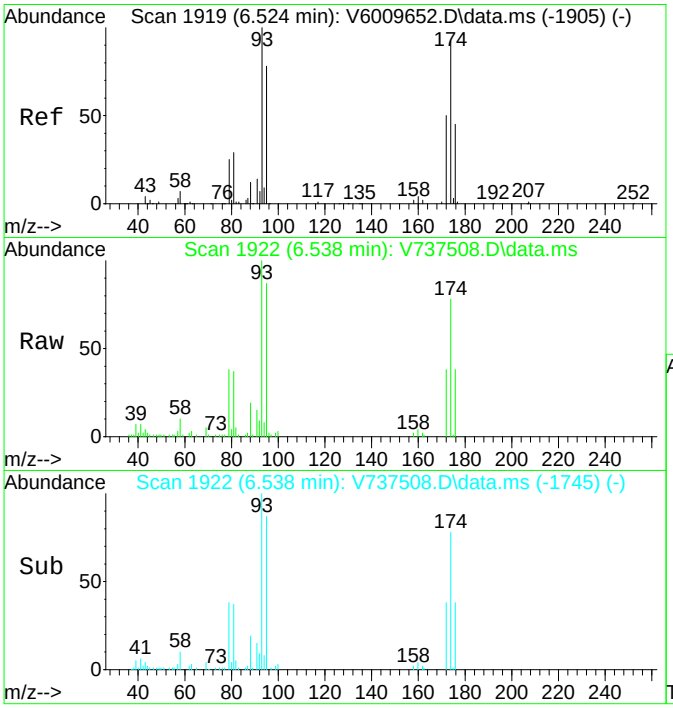


#47
1,2-Dichloropropane
Concen: 9.90 ppb
RT: 6.412 min Scan# 1877
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 63 Resp: 99912

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	0.0	14.5	43.6#
76	47.1	18.8	56.4

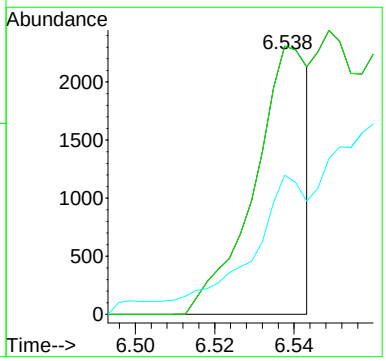


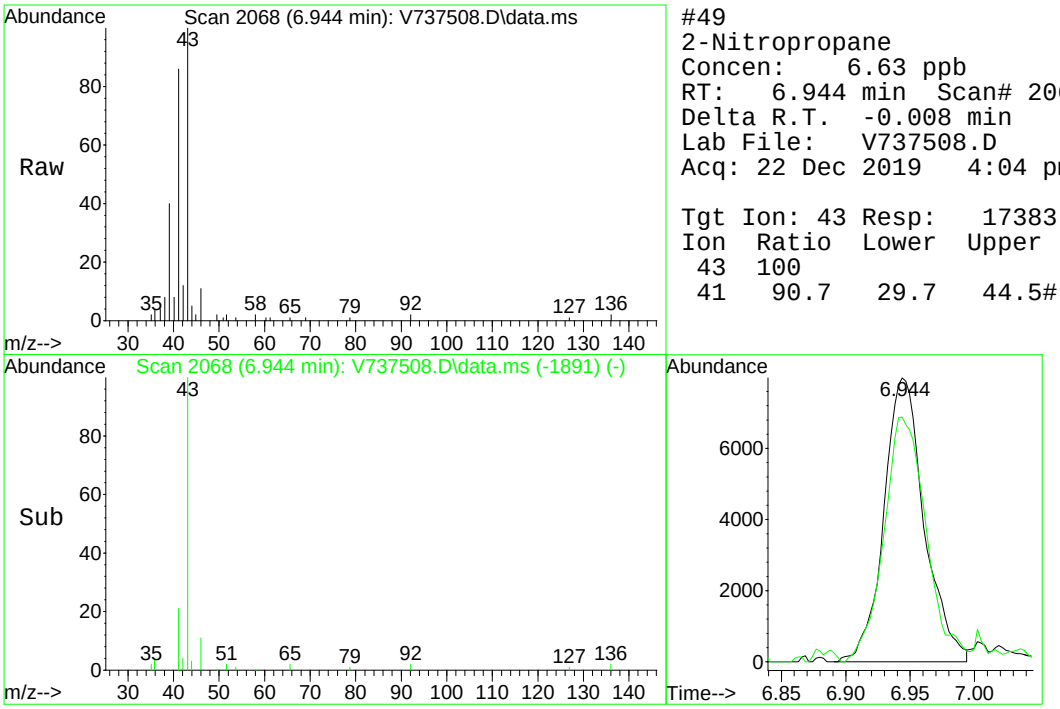


#48
1,4-Dioxane
Concen: 56.62 ppb
RT: 6.538 min Scan# 1922
Delta R.T. -0.008 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 88 Resp: 2173

Ion	Ratio	Lower	Upper
88	100		
88	100.0	80.0	120.0
58	58.8	30.8	92.3

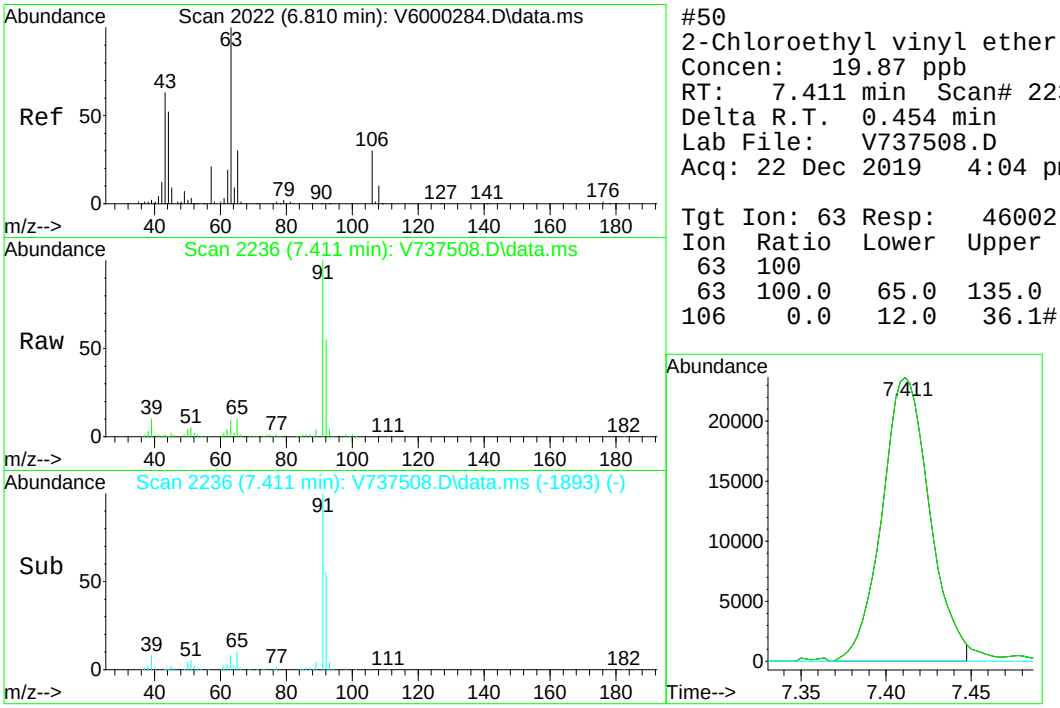




#49
2-Nitropropane
Concen: 6.63 ppb
RT: 6.944 min Scan# 2068
Delta R.T. -0.008 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 43 Resp: 17383

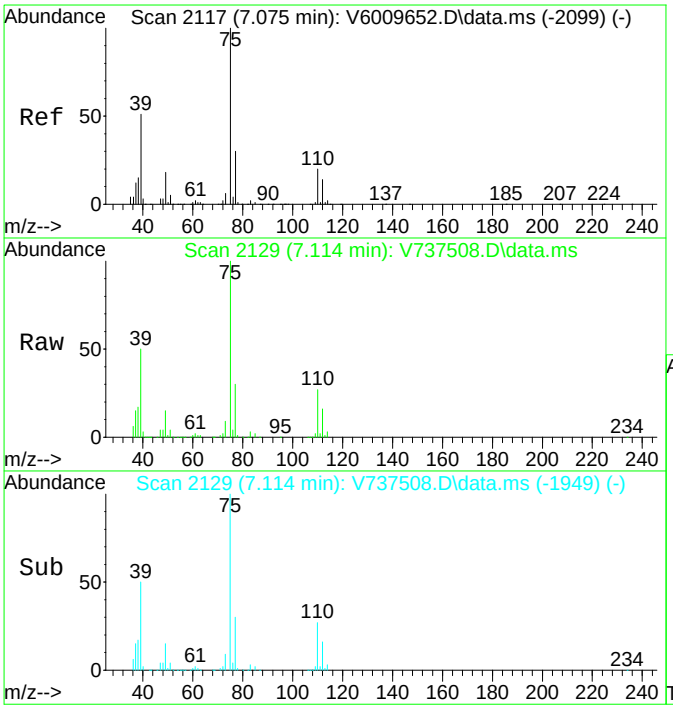
Ion	Ratio	Lower	Upper
43	100		
41	90.7	29.7	44.5#



#50
2-Chloroethyl vinyl ether
Concen: 19.87 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.454 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 63 Resp: 46002

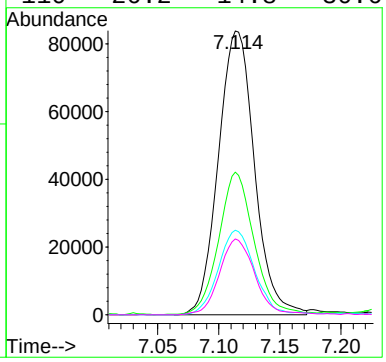
Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
106	0.0	12.0	36.1#

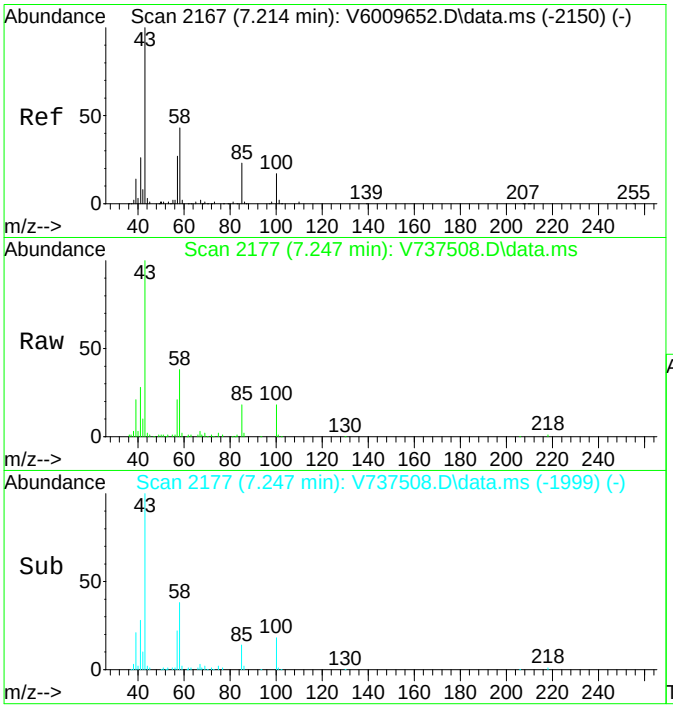


#51
cis-1,3-Dichloropropene
Concen: 10.60 ppb
RT: 7.114 min Scan# 2129
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 75 Resp: 172509

Ion	Ratio	Lower	Upper
75	100		
39	49.6	41.8	86.8
77	29.8	20.1	41.7
110	26.2	14.8	30.6

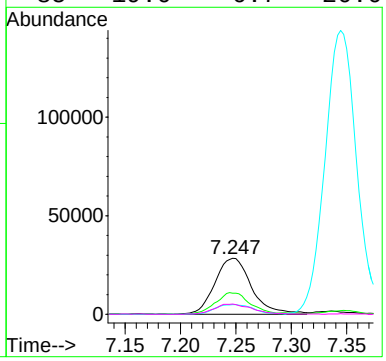


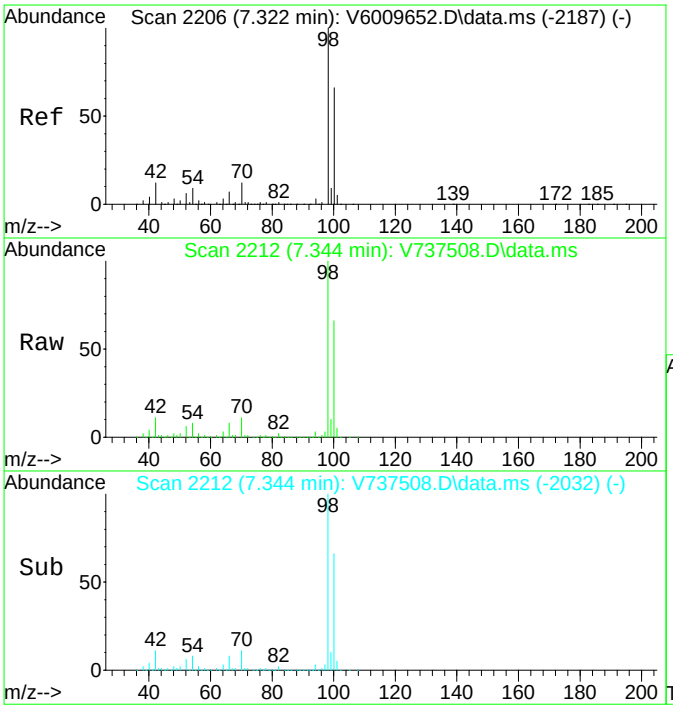


#52
4-Methyl-2-Pentanone
Concen: 11.14 ppb
RT: 7.247 min Scan# 2177
Delta R.T. -0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 43 Resp: 65745

Ion	Ratio	Lower	Upper
43	100		
58	36.2	23.8	49.4
100	18.5	5.8	17.3#
85	19.0	6.7	20.0

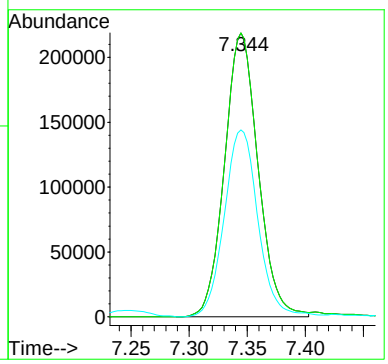


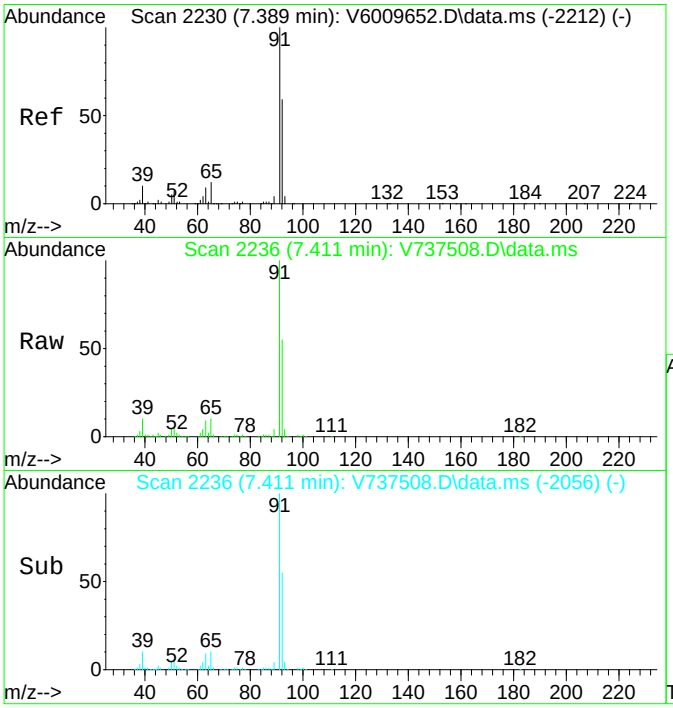


#53
Toluene-d8 (SURR)
Concen: 9.73 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 98 Resp: 439630

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	66.1	43.4	90.2

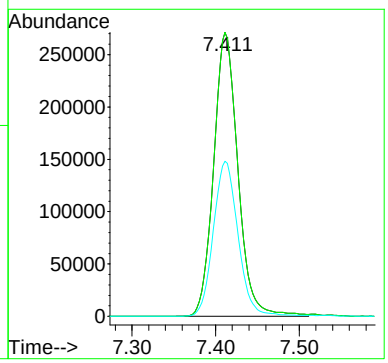


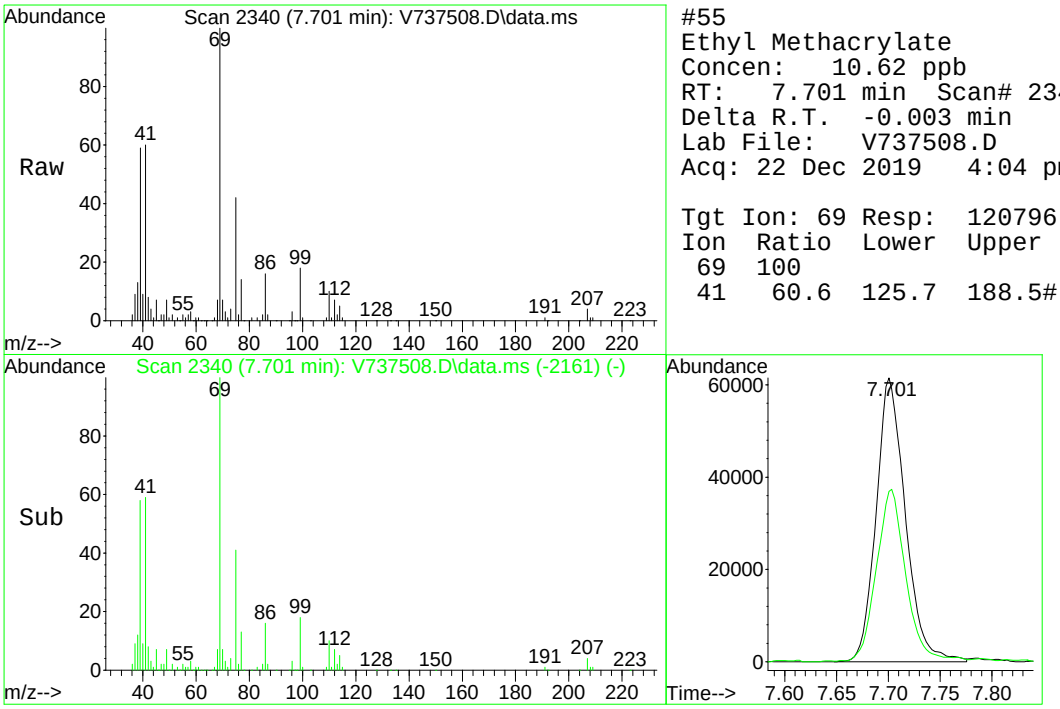


#54
Toluene
Concen: 10.59 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 548245

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	55.5	38.4	79.7

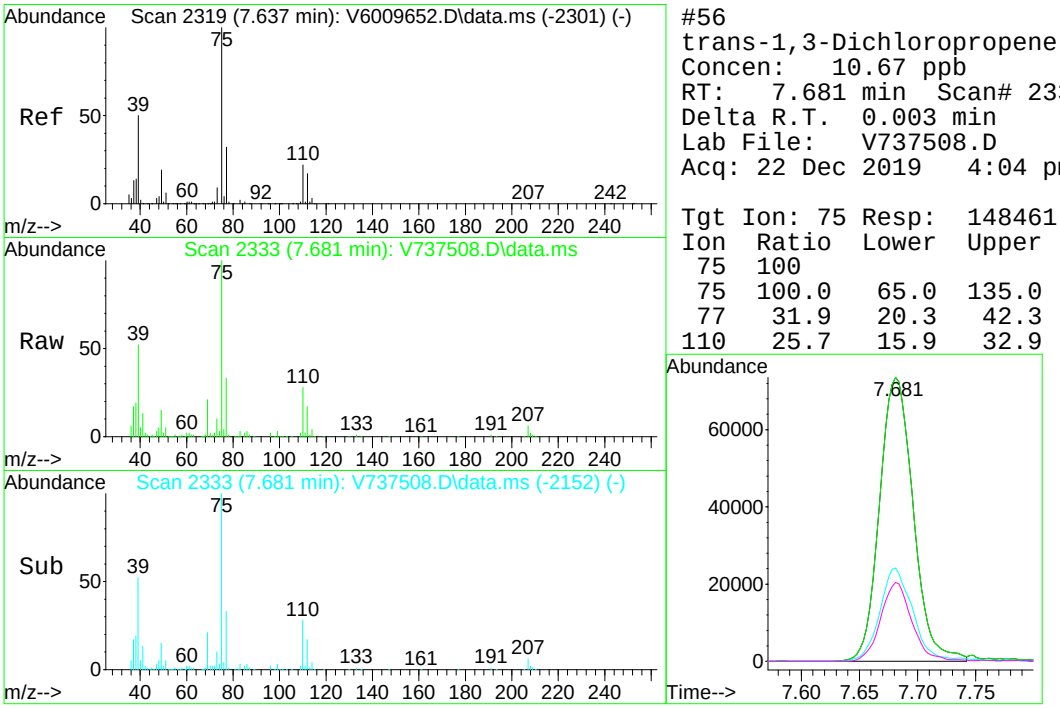




#55
Ethyl Methacrylate
Concen: 10.62 ppb
RT: 7.701 min Scan# 2340
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 69 Resp: 120796

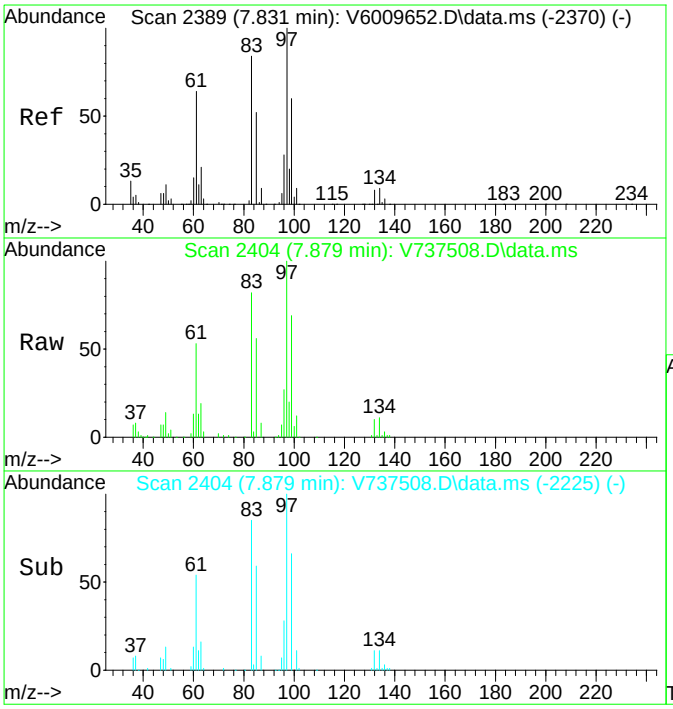
Ion	Ratio	Lower	Upper
69	100		
41	60.6	125.7	188.5#



#56
trans-1,3-Dichloropropene
Concen: 10.67 ppb
RT: 7.681 min Scan# 2333
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 75 Resp: 148461

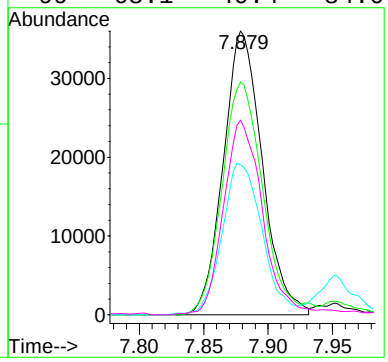
Ion	Ratio	Lower	Upper
75	100		
75	100.0	65.0	135.0
77	31.9	20.3	42.3
110	25.7	15.9	32.9

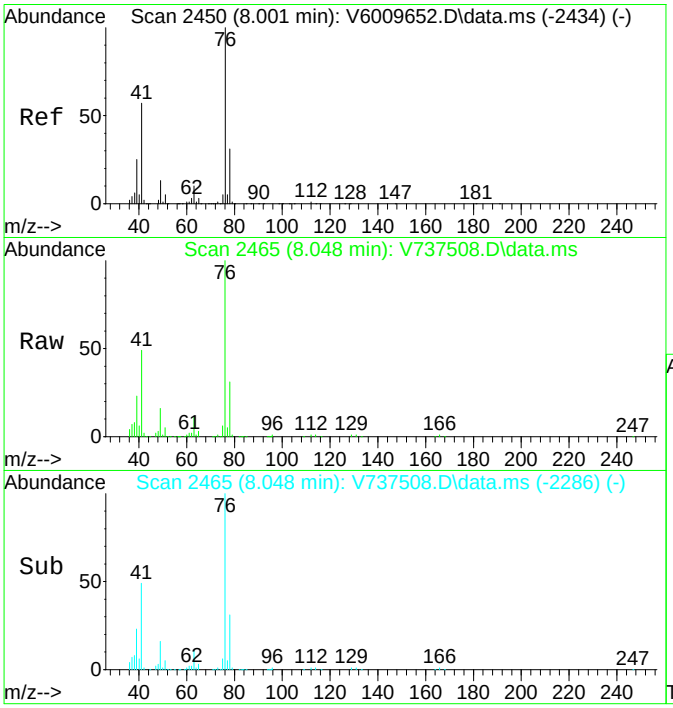


#57
1,1,2-Trichloroethane
Concen: 9.51 ppb
RT: 7.879 min Scan# 2404
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 97 Resp: 75754

Ion	Ratio	Lower	Upper
97	100		
83	85.1	54.1	112.5
61	54.8	44.3	91.9
99	68.1	40.4	84.0

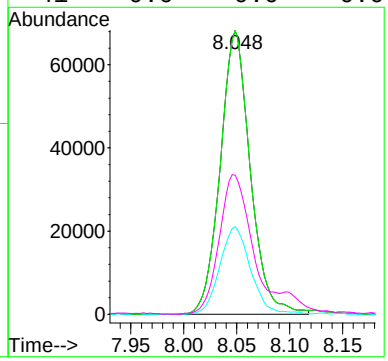


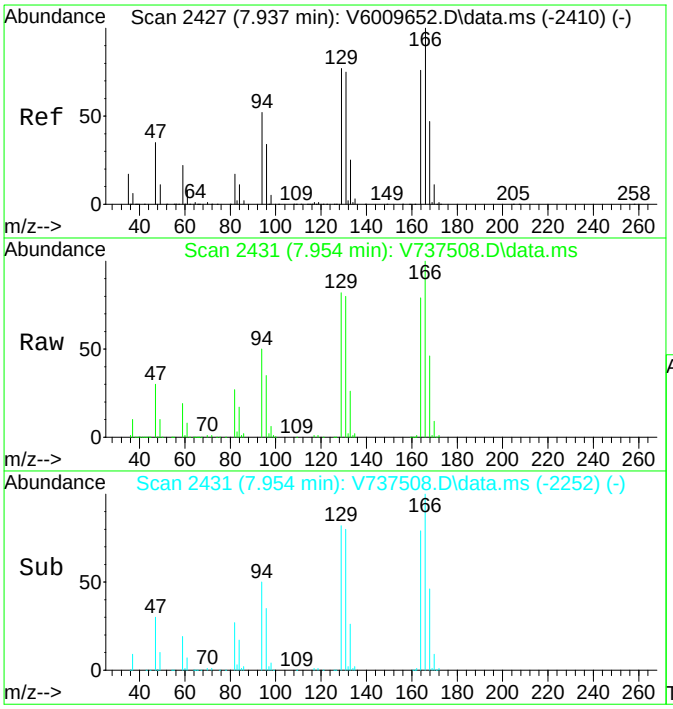


#58
1,3-Dichloropropane
Concen: 10.06 ppb
RT: 8.048 min Scan# 2465
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 76 Resp: 134991

Ion	Ratio	Lower	Upper
76	100		
76	100.0	80.0	120.0
78	31.6	16.4	49.2
41	0.0	0.0	0.0

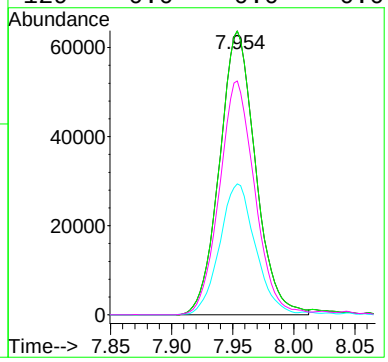


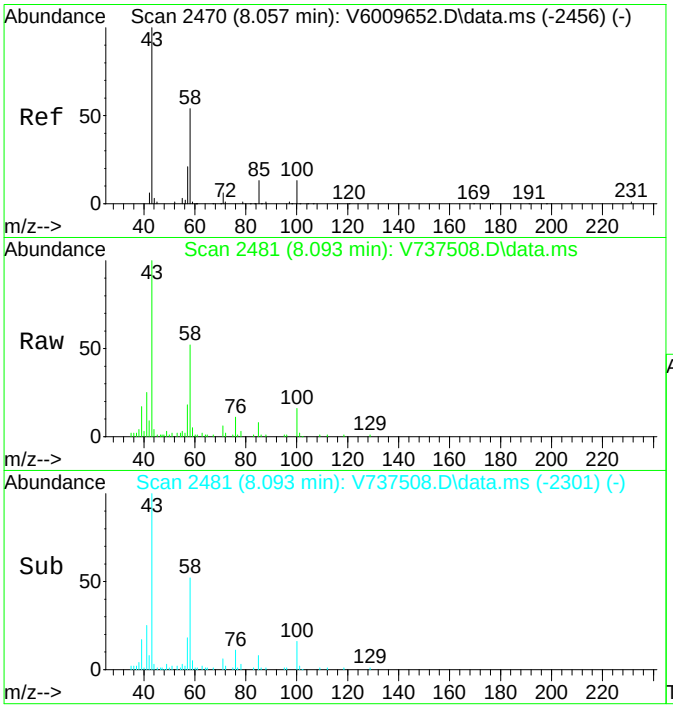


#59
Tetrachloroethylene
Concen: 8.56 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:166 Resp: 130735

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	45.9	0.0	0.0#
129	0.0	0.0	0.0

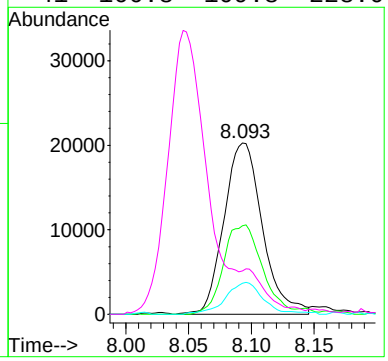


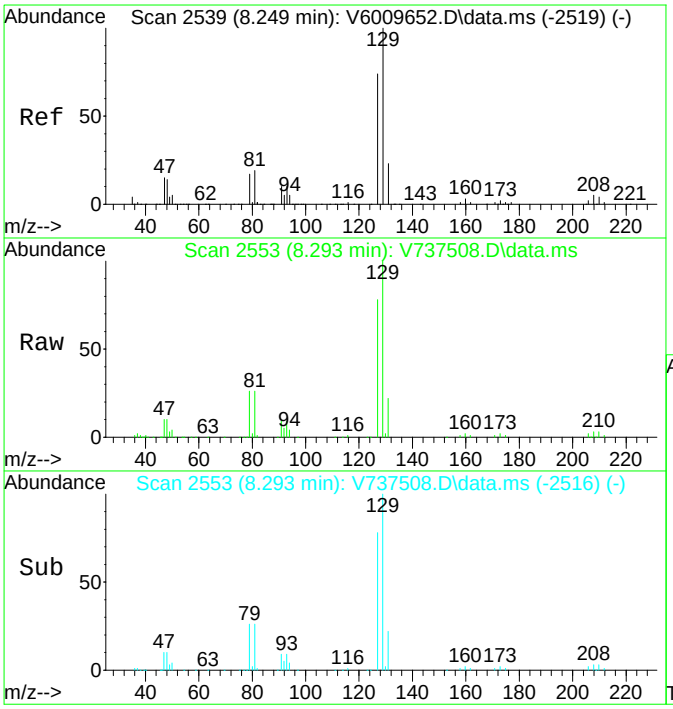


#60
2-Hexanone
Concen: 10.28 ppb
RT: 8.093 min Scan# 2481
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 43 Resp: 43341

Ion	Ratio	Lower	Upper
43	100		
58	52.3	33.0	68.6
57	18.5	11.1	23.1
41	166.8	109.8	228.0

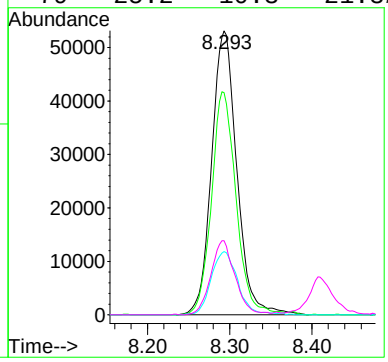


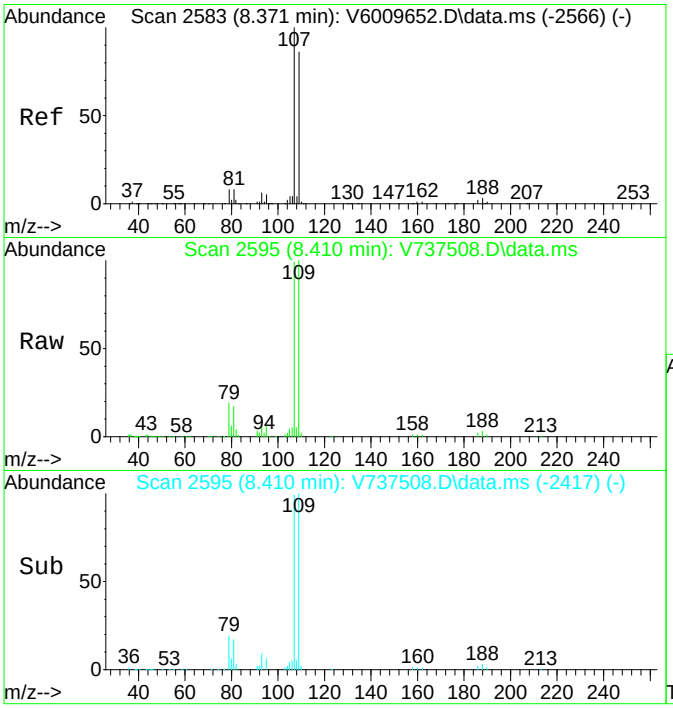


#61
Dibromochloromethane
Concen: 11.00 ppb
RT: 8.293 min Scan# 2553
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:129 Resp: 113347

Ion	Ratio	Lower	Upper
129	100		
127	76.7	49.8	103.4
131	23.0	16.1	33.5
79	25.2	10.3	21.3#

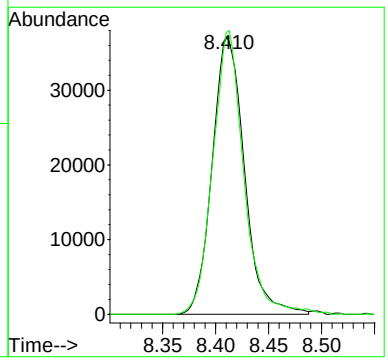


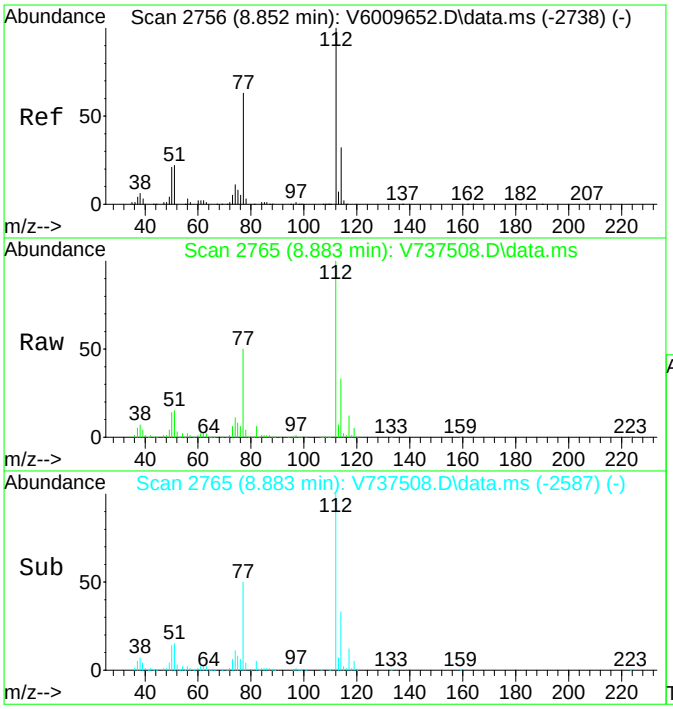


#62
1,2-Dibromoethane
Concen: 9.70 ppb
RT: 8.410 min Scan# 2595
Delta R.T. -0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:107 Resp: 78699

Ion	Ratio	Lower	Upper
107	100		
109	98.1	62.0	128.8

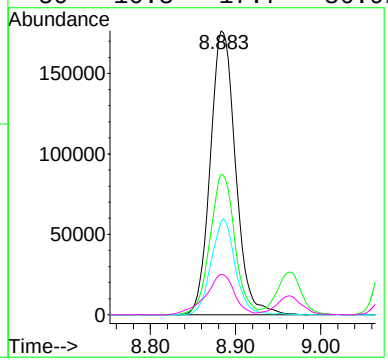


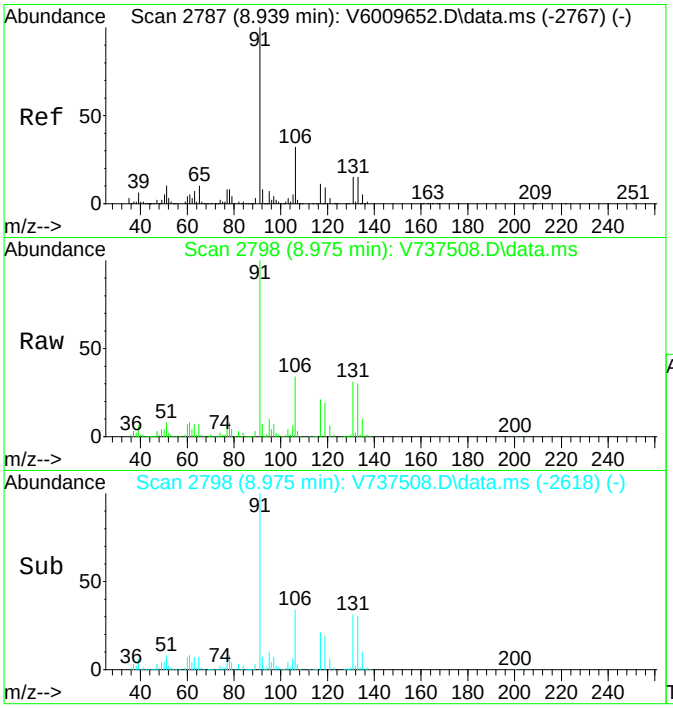


#63
Chlorobenzene
Concen: 9.90 ppb
RT: 8.883 min Scan# 2765
Delta R.T. -0.005 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:112 Resp: 364910

Ion	Ratio	Lower	Upper
112	100		
77	48.7	38.9	80.7
114	32.0	20.5	42.7
50	16.3	17.7	36.9#

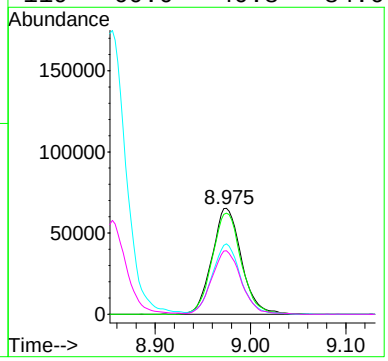


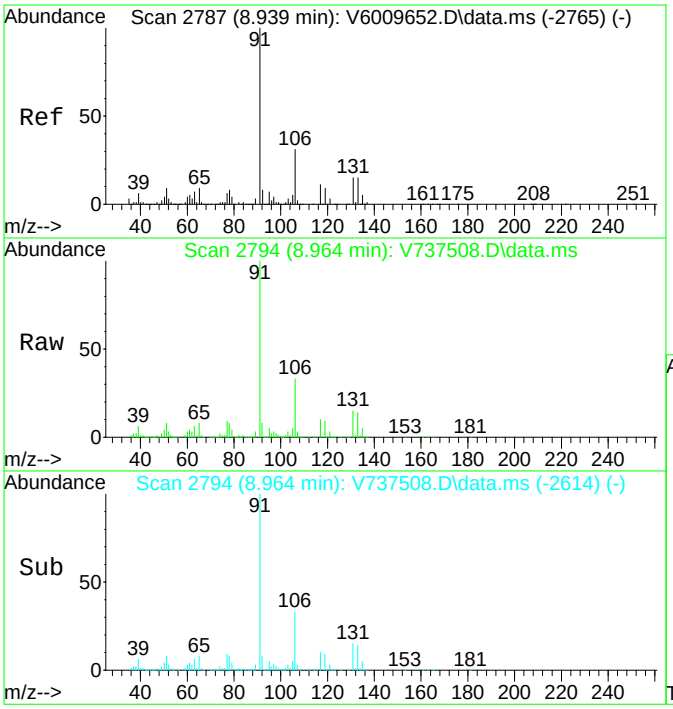


#64
1,1,1,2-tetrachloroethane
Concen: 10.20 ppb
RT: 8.975 min Scan# 2798
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:131 Resp: 140728

Ion	Ratio	Lower	Upper
131	100		
133	94.7	61.5	127.7
117	64.5	42.6	88.6
119	60.0	40.8	84.6

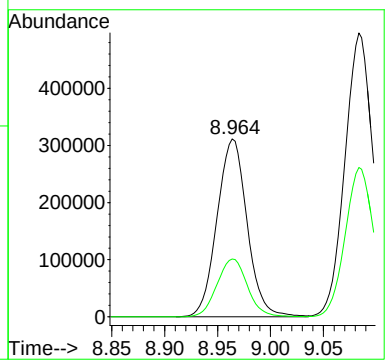


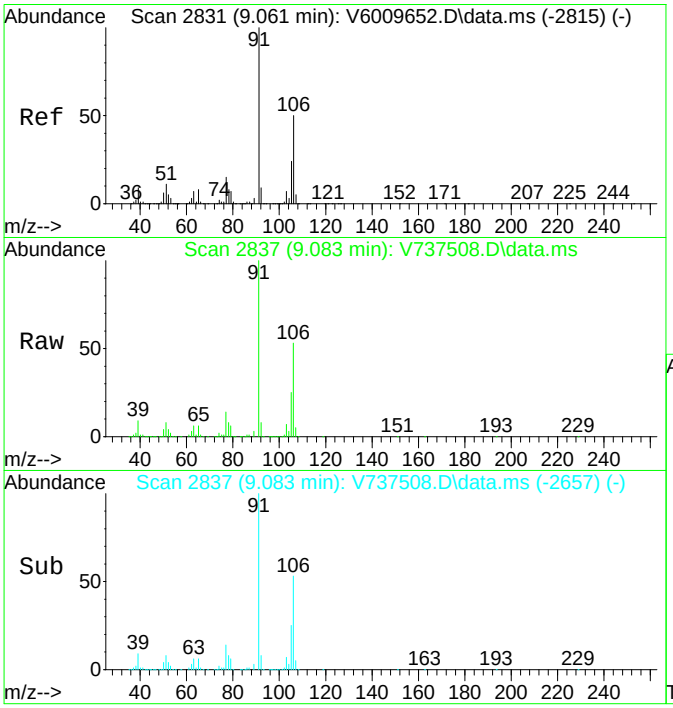


#65
Ethyl Benzene
Concen: 10.43 ppb
RT: 8.964 min Scan# 2794
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 617024

Ion	Ratio	Lower	Upper
91	100		
106	32.9	20.0	41.6

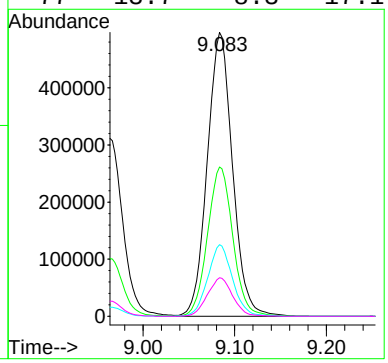


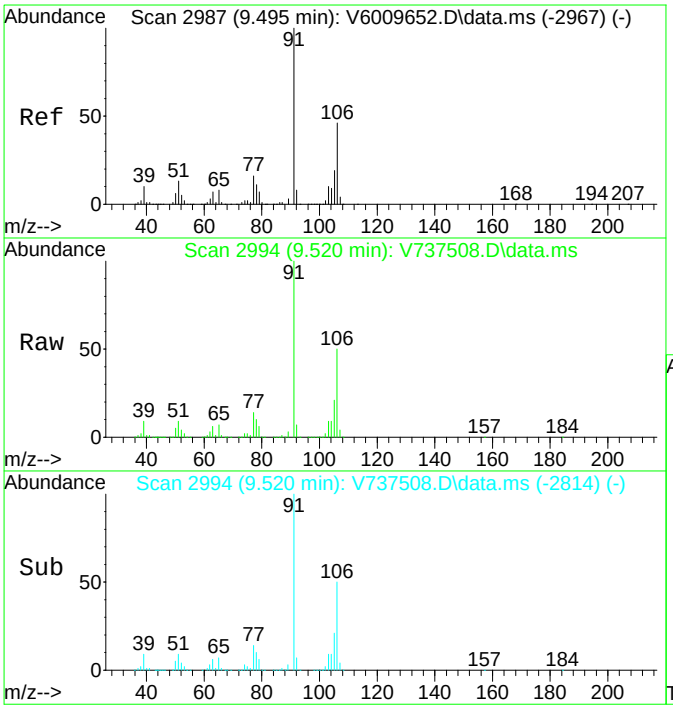


#66
p- & m-Xylenes
Concen: 20.68 ppb
RT: 9.083 min Scan# 2837
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 951712

Ion	Ratio	Lower	Upper
91	100		
106	52.7	31.3	65.1
105	24.8	14.2	29.4
77	13.7	8.3	17.1

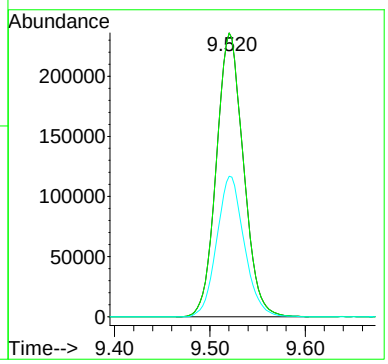


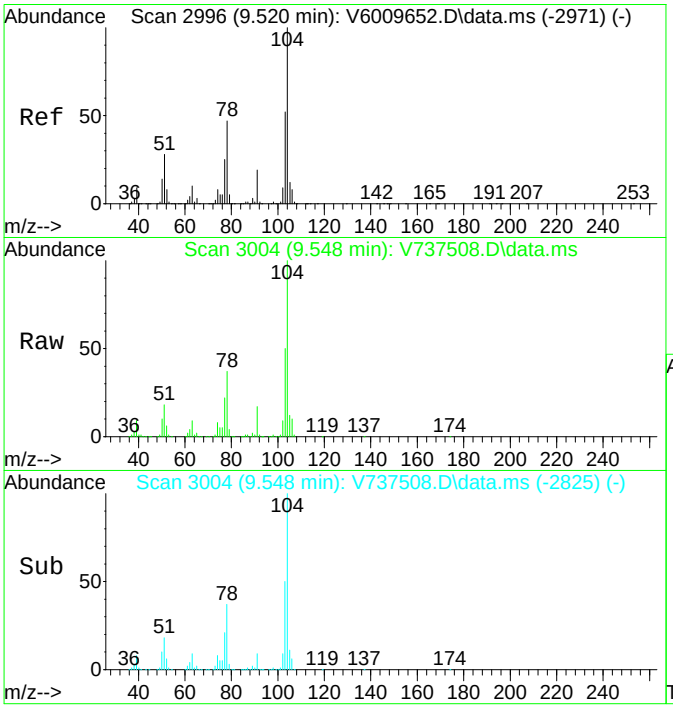


#67
o-Xylene
Concen: 10.53 ppb
RT: 9.520 min Scan# 2994
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 465424

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	50.4	22.7	68.1

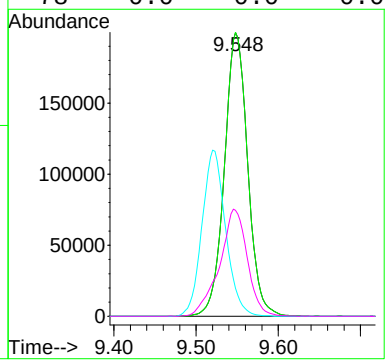


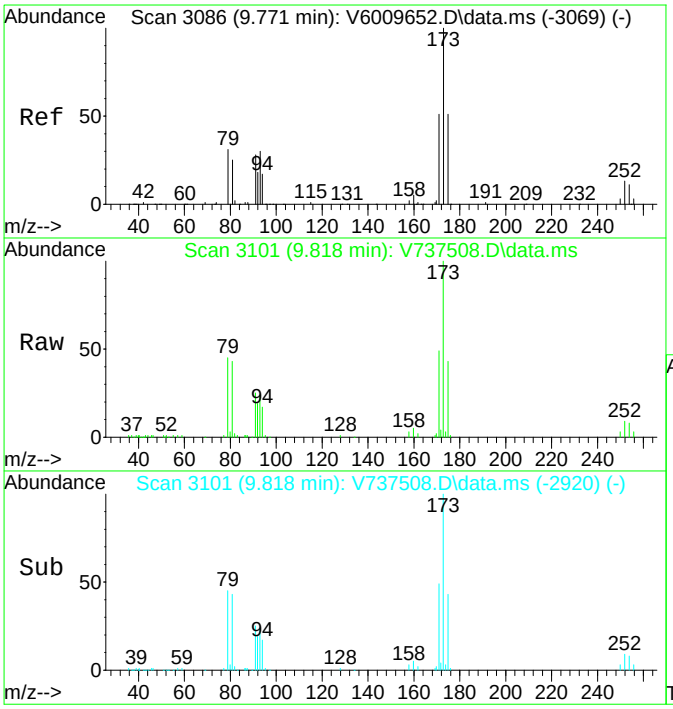


#68
Styrene
Concen: 10.50 ppb
RT: 9.548 min Scan# 3004
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:104 Resp: 394277

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
106	0.0	0.0	0.0
78	0.0	0.0	0.0

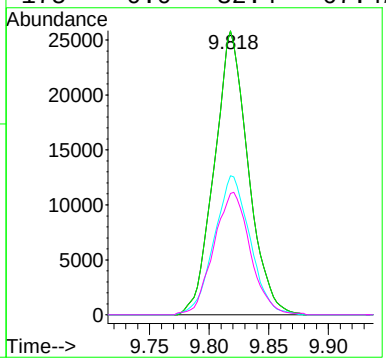


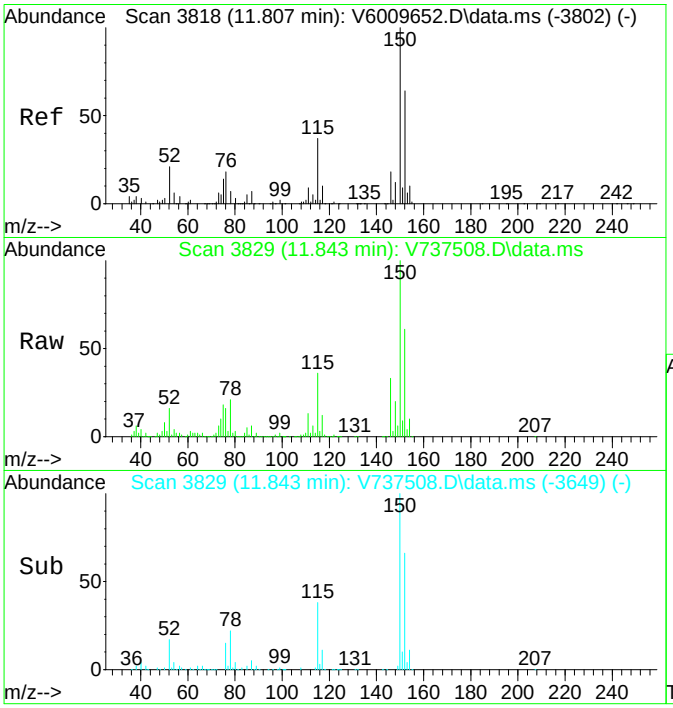


#69
Bromoform
Concen: 9.42 ppb
RT: 9.818 min Scan# 3101
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:173 Resp: 50998

Ion	Ratio	Lower	Upper
173	100		
173	100.0	80.0	120.0
171	51.9	0.0	0.0#
175	0.0	32.4	67.4#

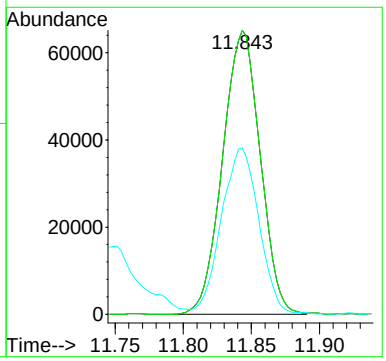


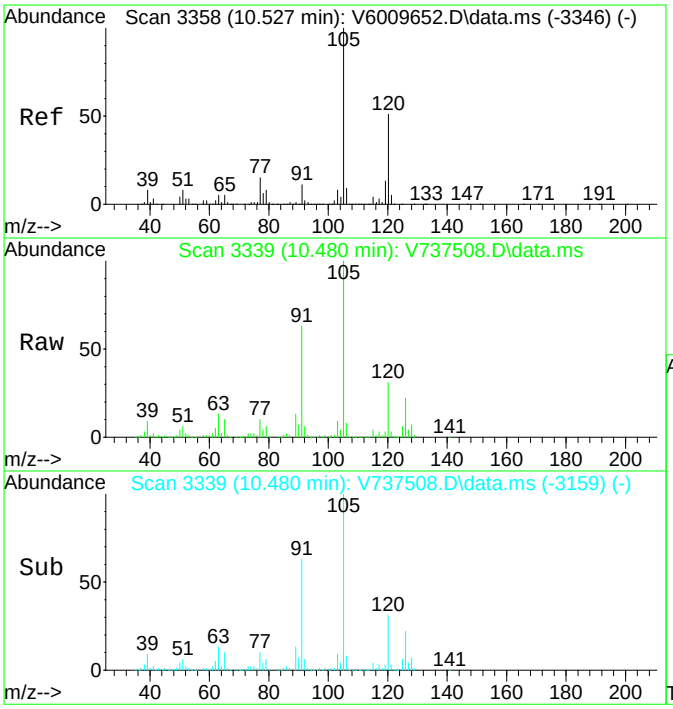


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:152 Resp: 124960

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	58.4	33.7	101.0

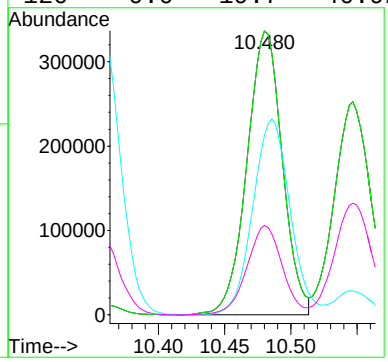


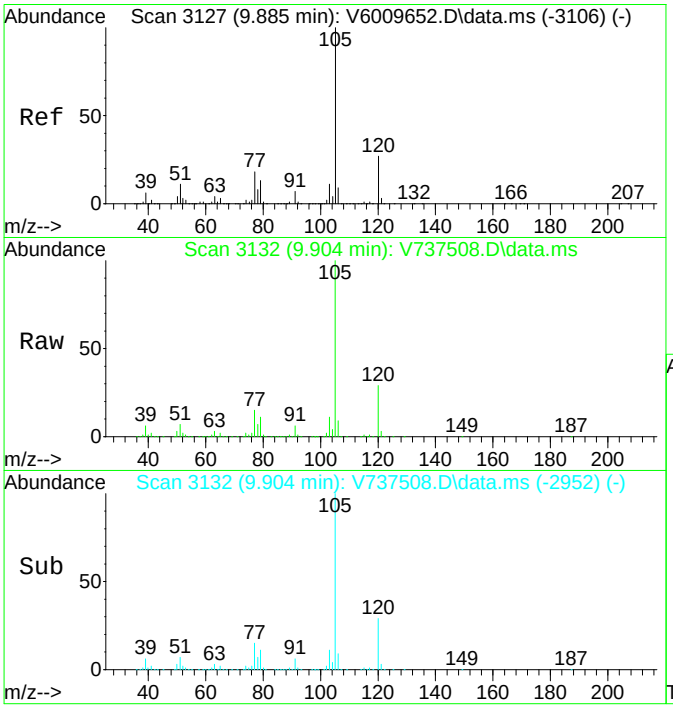


#71
p-Ethyltoluene
Concen: 11.26 ppb
RT: 10.480 min Scan# 3339
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:105 Resp: 626077

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
91	0.0	0.0	0.0
120	0.0	19.7	40.9#

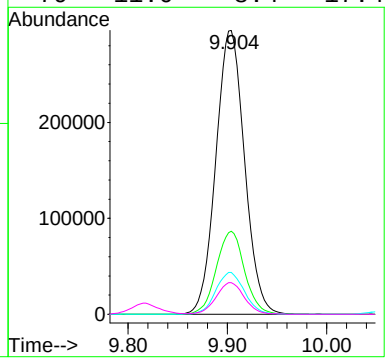


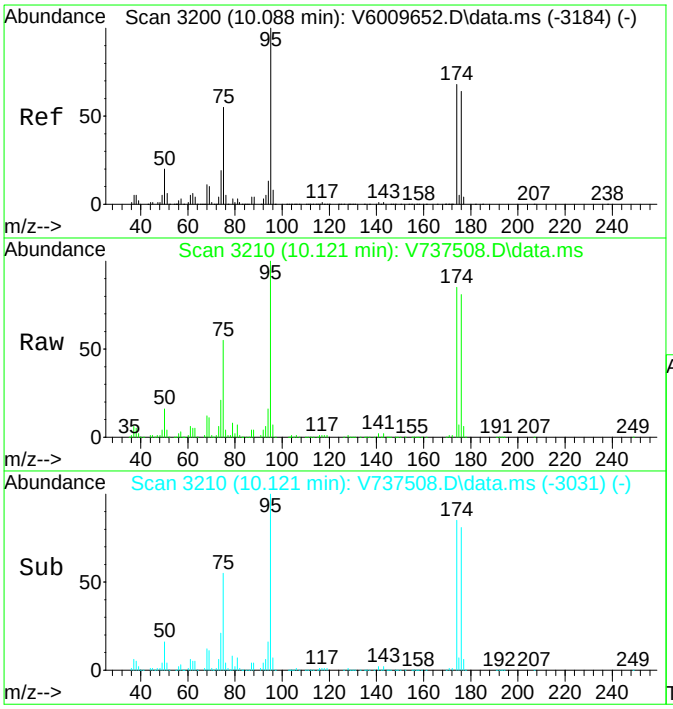


#72
Isopropylbenzene
Concen: 10.19 ppb
RT: 9.904 min Scan# 3132
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:105 Resp: 594443

Ion	Ratio	Lower	Upper
105	100		
120	28.8	17.6	36.6
77	14.8	10.1	20.9
79	11.0	8.4	17.4

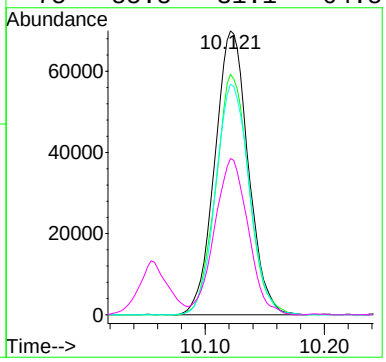


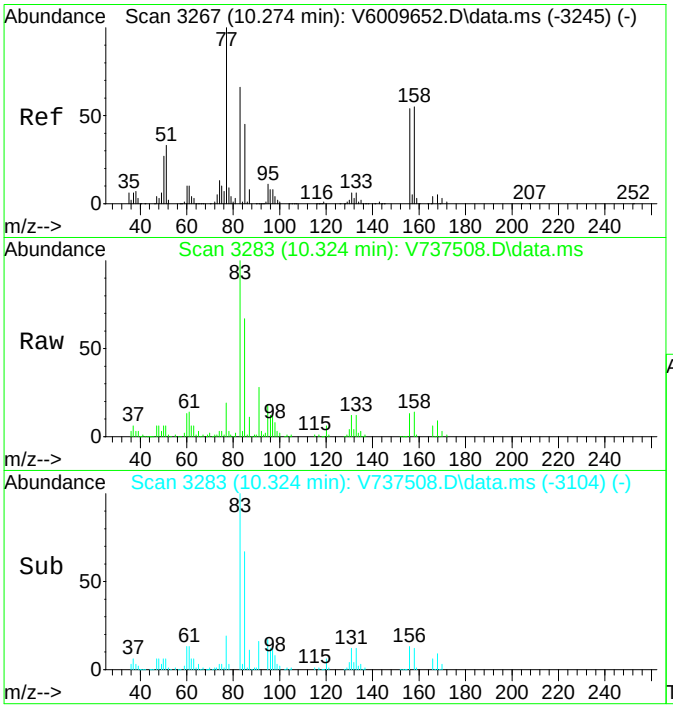


#73
p-Bromofluorobenzene (SURR)
Concen: 10.87 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 95 Resp: 136601

Ion	Ratio	Lower	Upper
95	100		
174	83.8	49.1	102.1
176	81.9	47.7	99.1
75	55.5	31.1	64.5

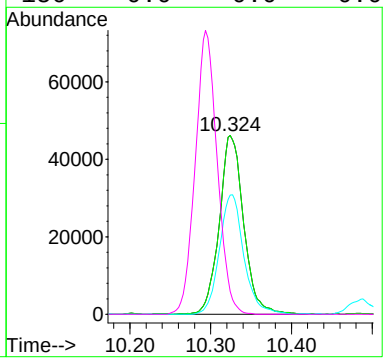


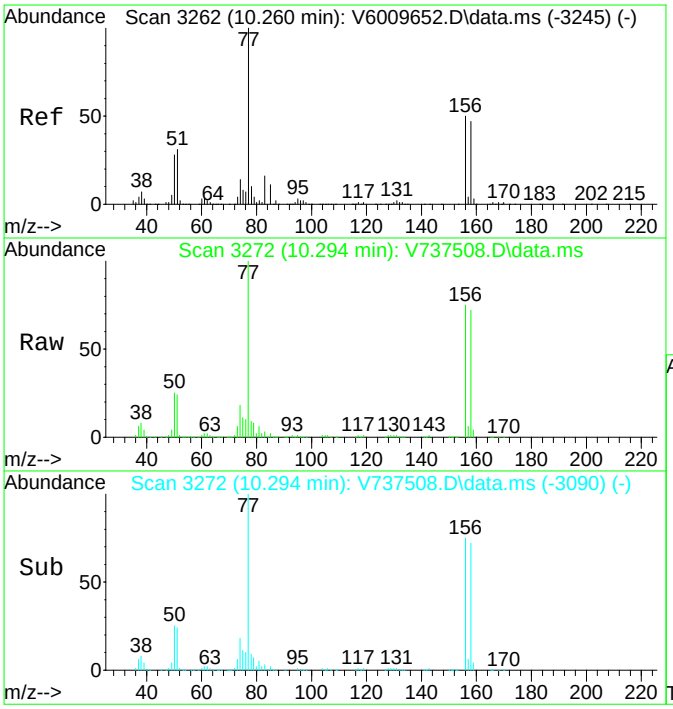


#74
1,1,2,2-Tetrachloroethane
Concen: 10.19 ppb
RT: 10.324 min Scan# 3283
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 83 Resp: 97184

Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
85	66.8	42.1	87.5
156	0.0	0.0	0.0

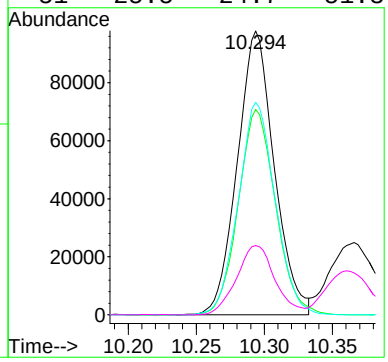


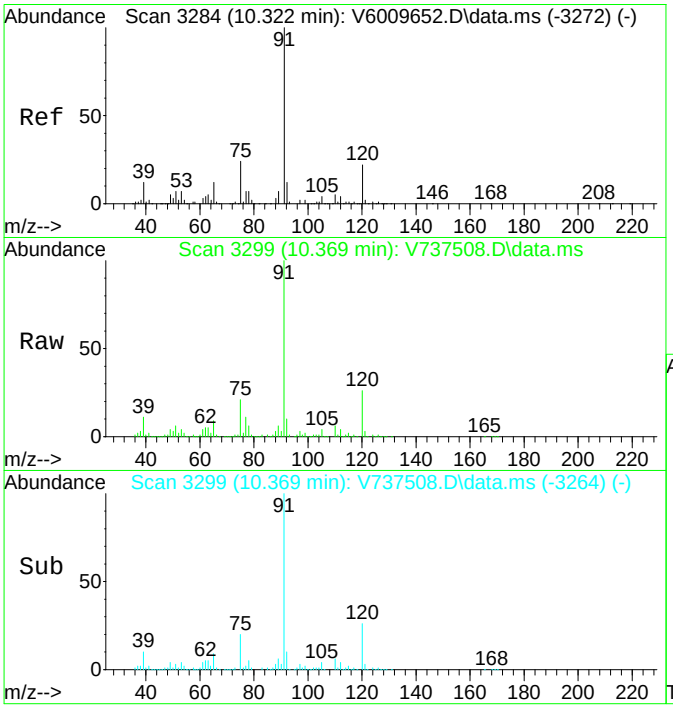


#75
Bromobenzene
Concen: 10.64 ppb
RT: 10.294 min Scan# 3272
Delta R.T. 0.006 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 77 Resp: 184619

Ion	Ratio	Lower	Upper
77	100		
158	73.0	37.2	77.4
156	74.9	38.9	80.7
51	25.5	24.7	51.3

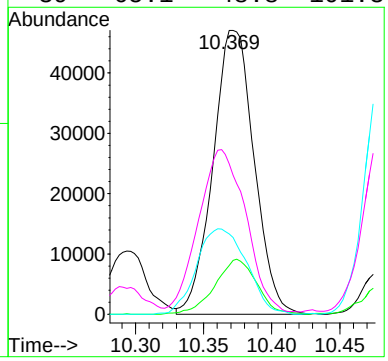


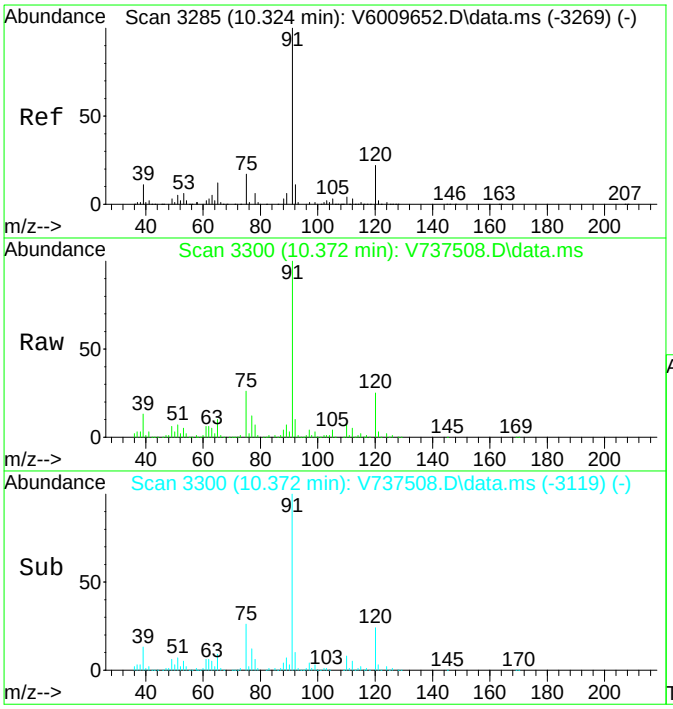


#76
trans-1,4-Dichloro-2-butene
Concen: 10.48 ppb
RT: 10.369 min Scan# 3299
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 75 Resp: 99112

Ion	Ratio	Lower	Upper
75	100		
53	19.8	21.8	45.4#
89	36.6	20.8	43.2
39	65.1	48.8	101.3

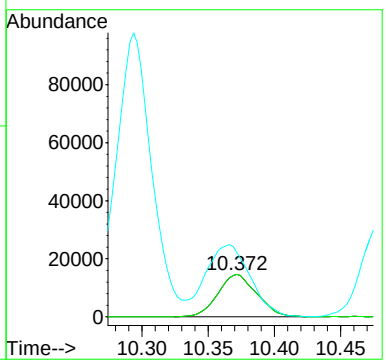


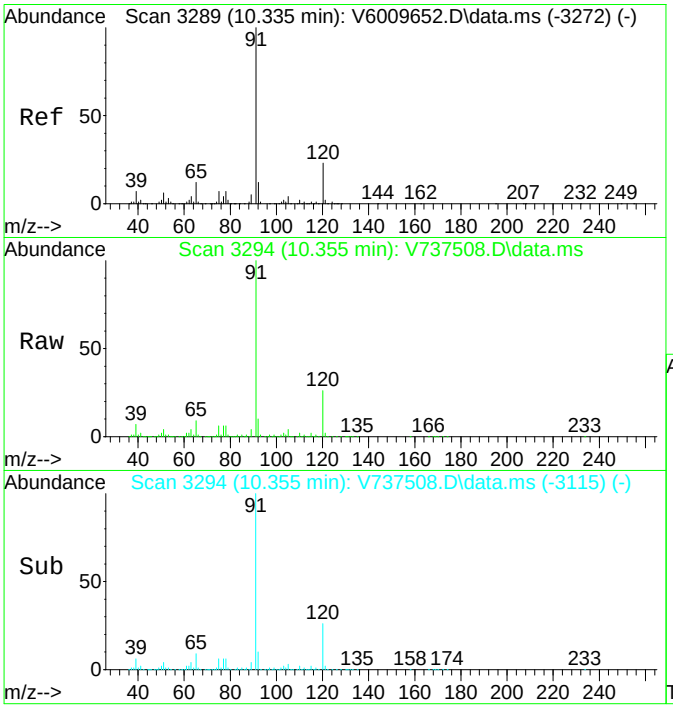


#77
1,2,3-Trichloropropane
Concen: 10.15 ppb
RT: 10.372 min Scan# 3300
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:110 Resp: 29768

Ion	Ratio	Lower	Upper
110	100		
110	100.0	80.0	120.0
77	193.3	113.1	339.4

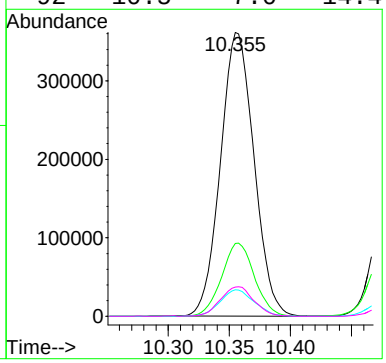


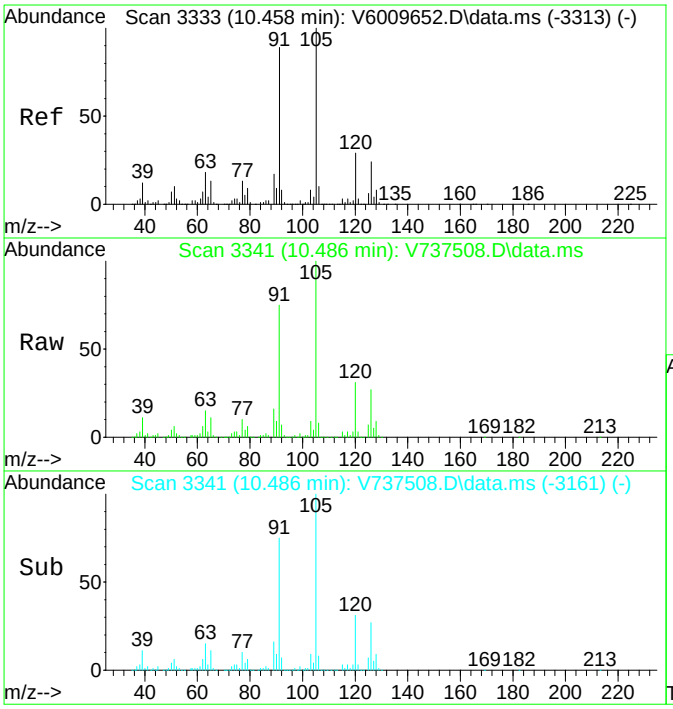


#78
n-Propylbenzene
Concen: 10.43 ppb
RT: 10.355 min Scan# 3294
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 689313

Ion	Ratio	Lower	Upper
91	100		
120	25.3	14.8	30.8
65	9.6	7.0	14.4
92	10.5	7.0	14.4

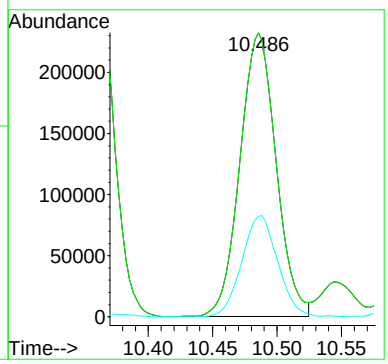


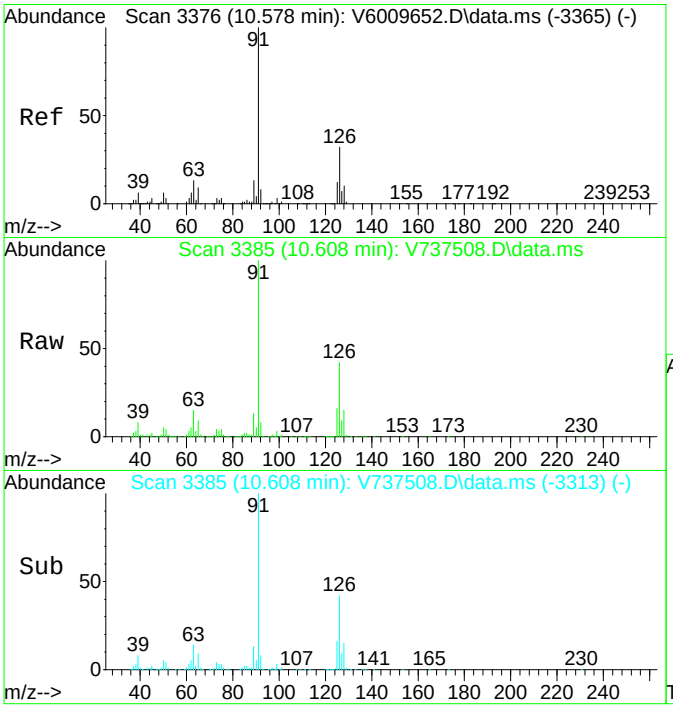


#79
2-Chlorotoluene
Concen: 10.42 ppb
RT: 10.486 min Scan# 3341
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 453521

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
126	35.4	18.1	37.7

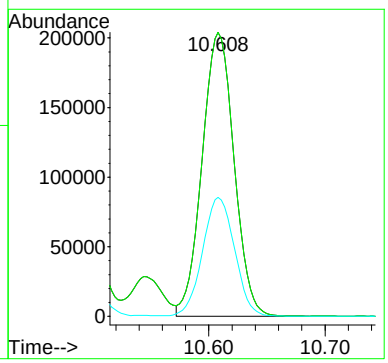


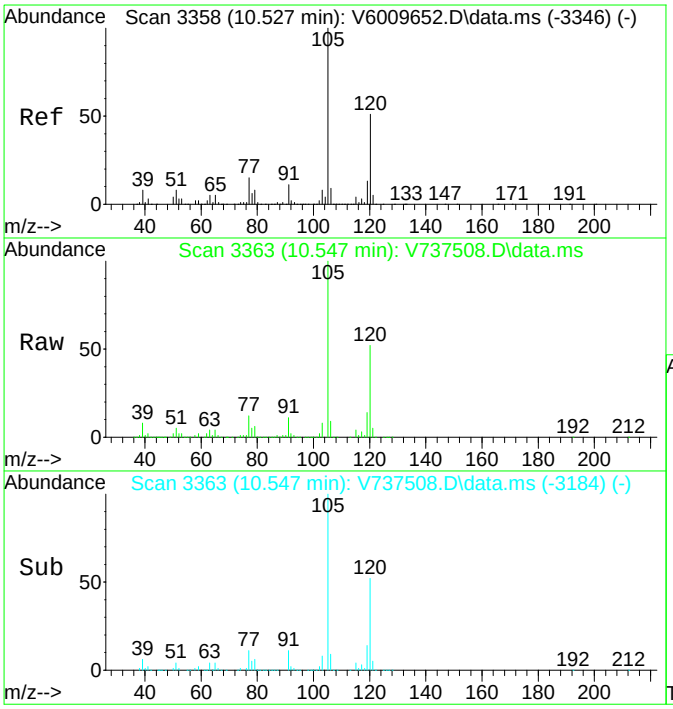


#80
4-Chlorotoluene
Concen: 10.39 ppb
RT: 10.608 min Scan# 3385
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 388978

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
126	42.1	16.0	47.9

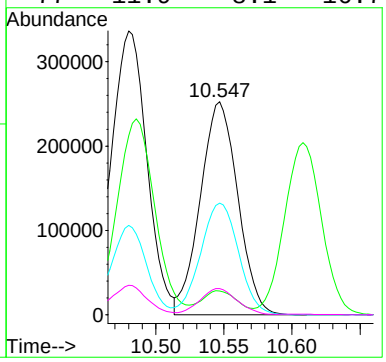


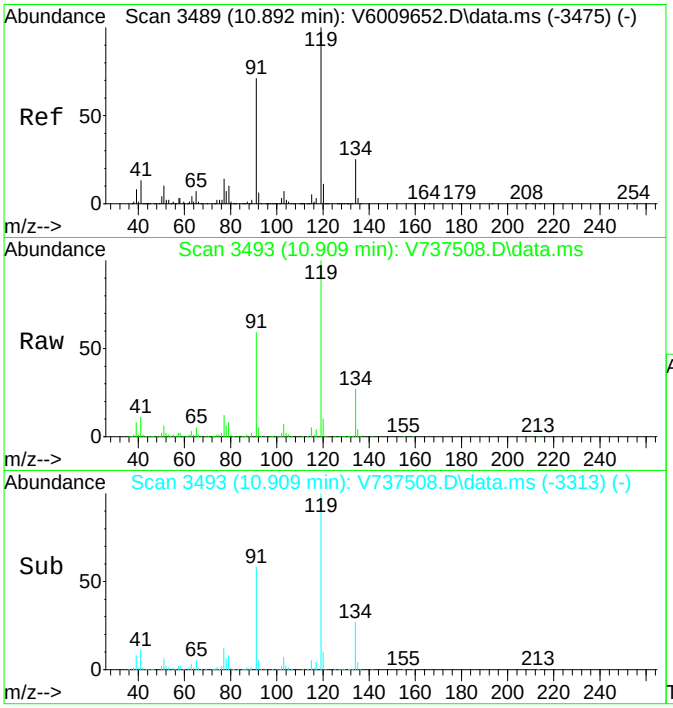


#81
1,3,5-Trimethylbenzene
Concen: 10.60 ppb
RT: 10.547 min Scan# 3363
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:105 Resp: 483829

Ion	Ratio	Lower	Upper
105	100		
91	10.9	6.8	14.2
120	53.1	32.6	67.6
77	11.9	8.1	16.7

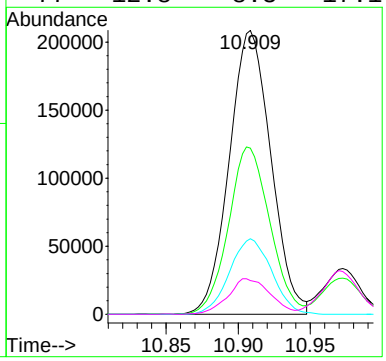


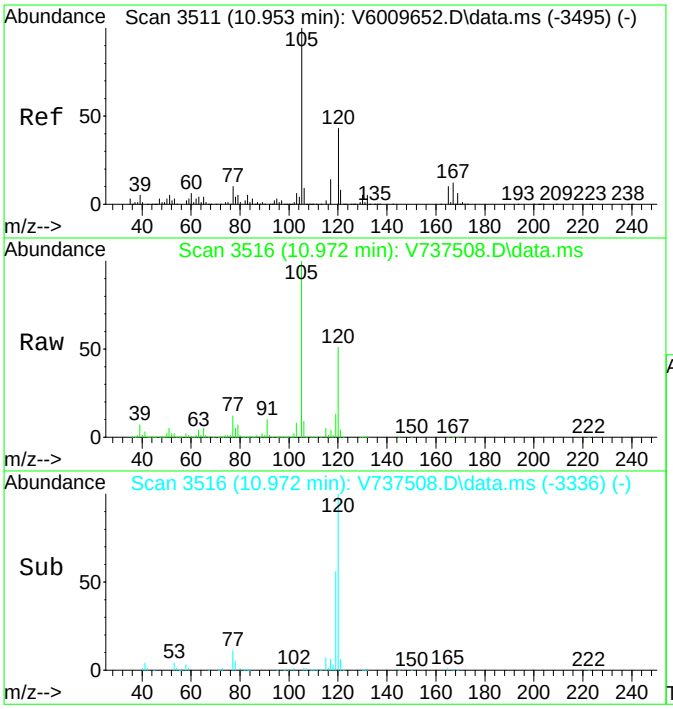


#82
tert-Butylbenzene
Concen: 10.29 ppb
RT: 10.909 min Scan# 3493
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:119 Resp: 418177

Ion	Ratio	Lower	Upper
119	100		
91	58.5	44.3	91.9
134	27.1	15.9	33.1
77	12.8	8.3	17.1

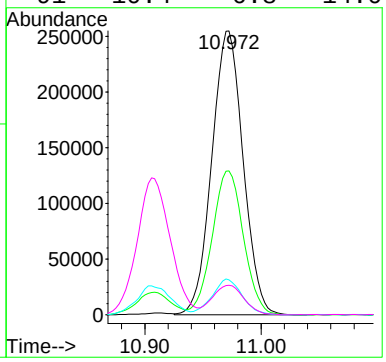


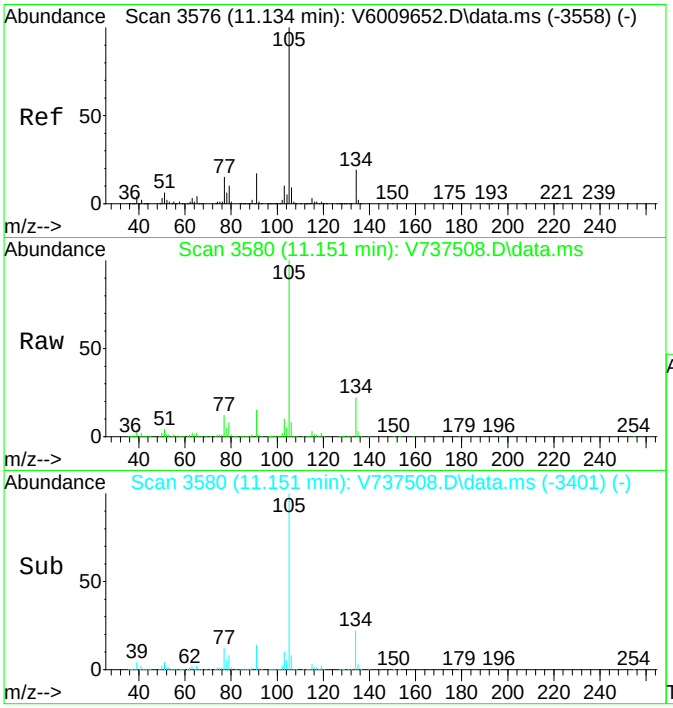


#83
1,2,4-Trimethylbenzene
Concen: 10.28 ppb
RT: 10.972 min Scan# 3516
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:105 Resp: 477616

Ion	Ratio	Lower	Upper
105	100		
120	50.5	30.7	63.7
77	12.1	8.0	16.6
91	10.4	6.8	14.0

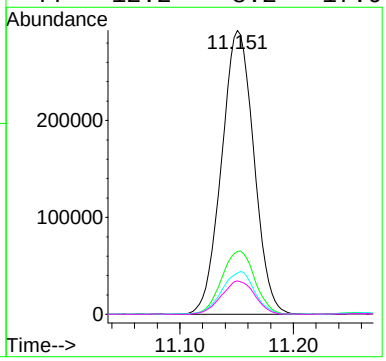


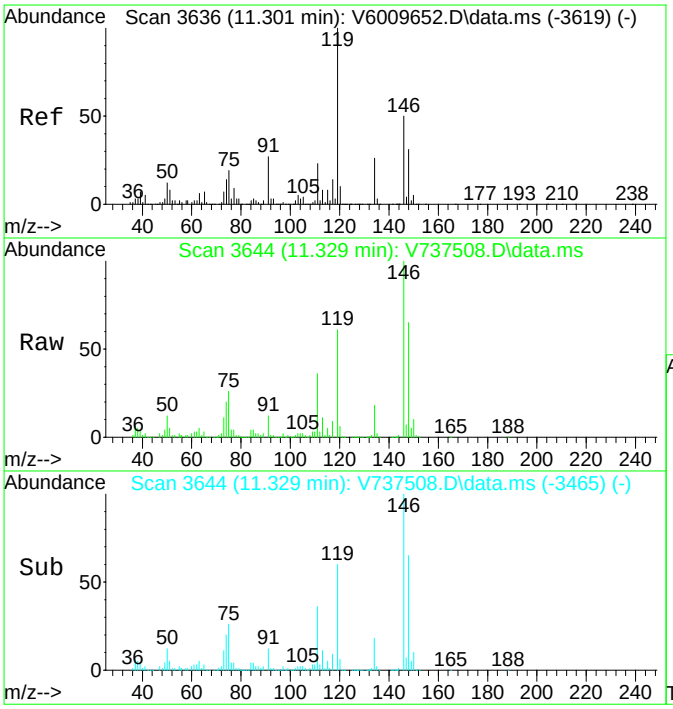


#84
sec-Butylbenzene
Concen: 11.34 ppb
RT: 11.151 min Scan# 3580
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:105 Resp: 579070

Ion	Ratio	Lower	Upper
105	100		
134	23.0	13.5	28.1
91	15.2	10.7	22.1
77	12.2	8.2	17.0

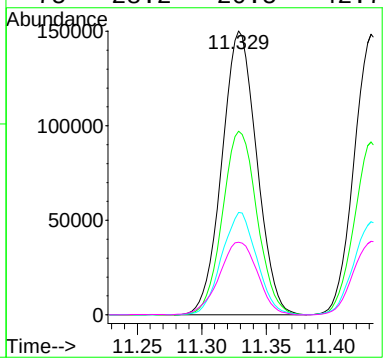


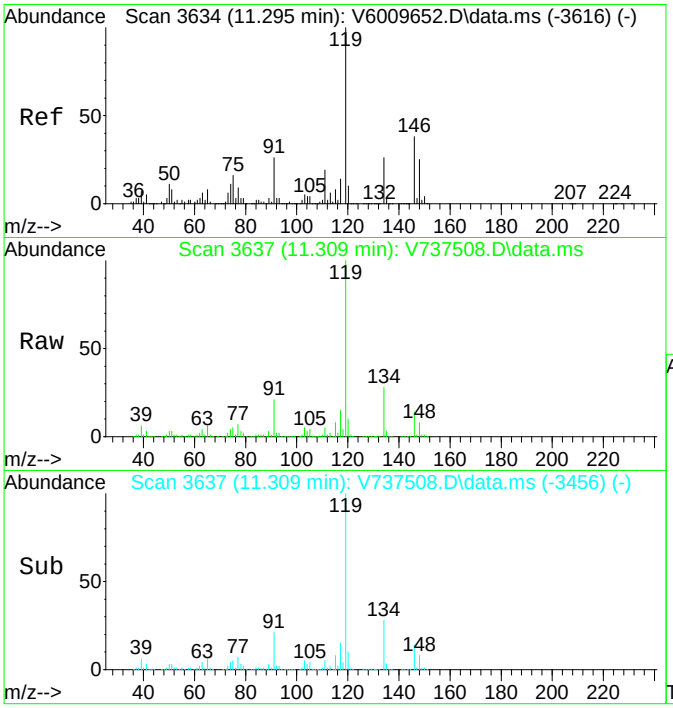


#85
1,3-Dichlorobenzene
Concen: 9.96 ppb
RT: 11.329 min Scan# 3644
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:146 Resp: 282467

Ion	Ratio	Lower	Upper
146	100		
148	64.4	41.7	86.5
111	36.2	27.2	56.6
75	28.2	20.5	42.7

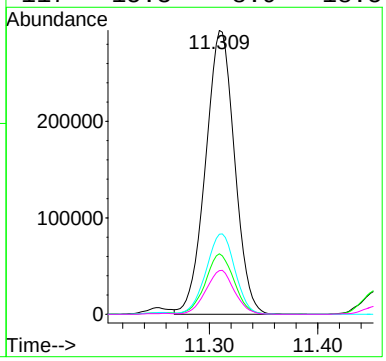


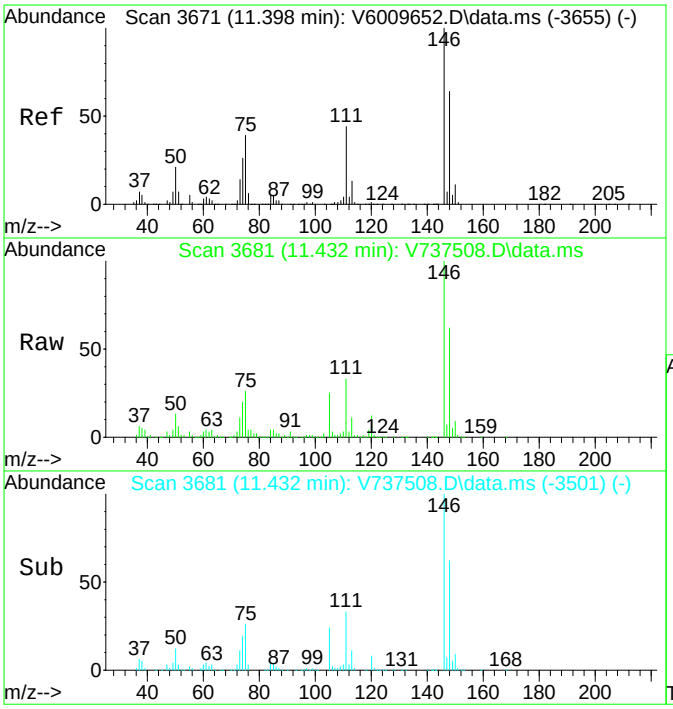


#86
p-Isopropyltoluene
Concen: 10.70 ppb
RT: 11.309 min Scan# 3637
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:119 Resp: 547962

Ion	Ratio	Lower	Upper
119	100		
91	21.1	15.8	32.8
134	28.4	17.6	36.6
117	15.3	8.9	18.5

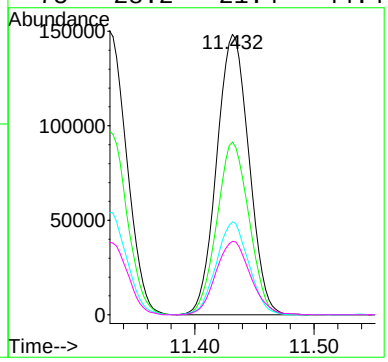


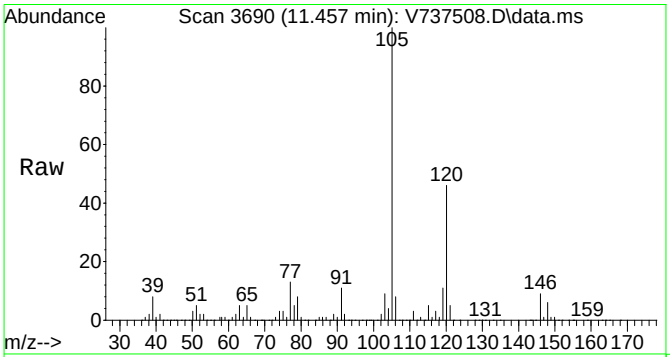


#87
1,4-Dichlorobenzene
Concen: 9.94 ppb
RT: 11.432 min Scan# 3681
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:146 Resp: 279158

Ion	Ratio	Lower	Upper
146	100		
148	61.3	41.0	85.2
111	33.5	26.3	54.7
75	28.2	21.4	44.4

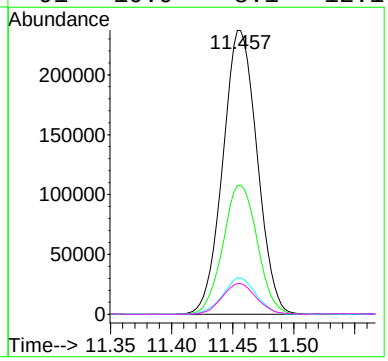


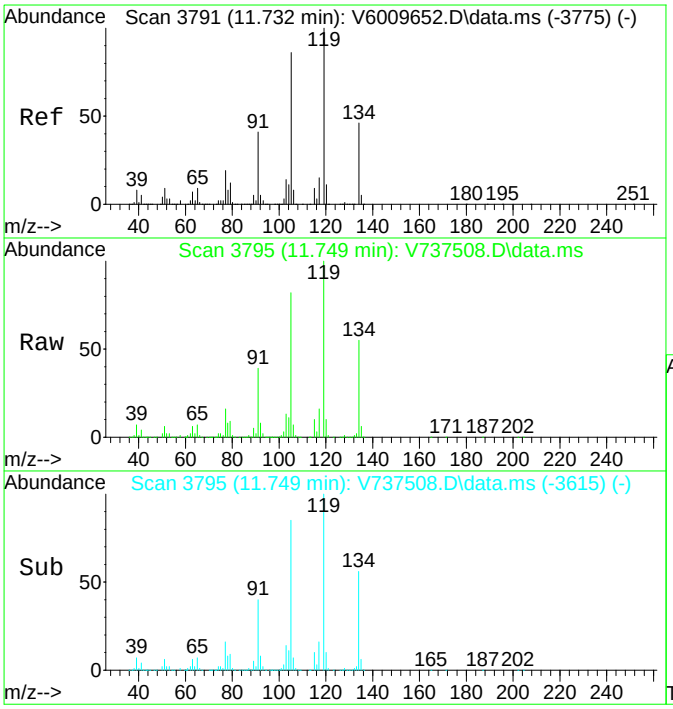


#88
1,2,3-Trimethylbenzene
Concen: 10.66 ppb
RT: 11.457 min Scan# 3690
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:105 Resp: 462957

Ion	Ratio	Lower	Upper
105	100		
120	45.5	34.3	51.5
77	12.6	9.8	14.8
91	10.9	8.1	12.1

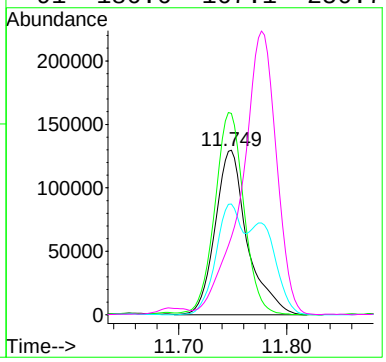


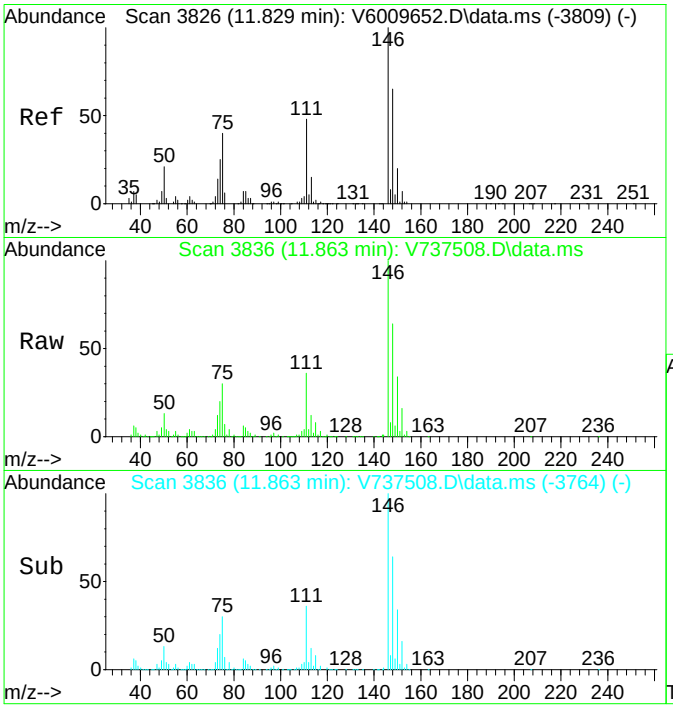


#89
p-Diethylbenzene
Concen: 12.36 ppb
RT: 11.749 min Scan# 3795
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:105 Resp: 267055

Ion	Ratio	Lower	Upper
105	100		
119	111.9	83.7	125.5
134	57.5	35.5	73.7
91	186.6	167.1	250.7

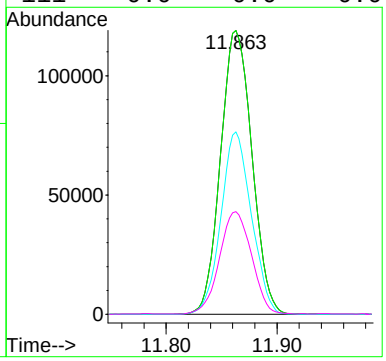


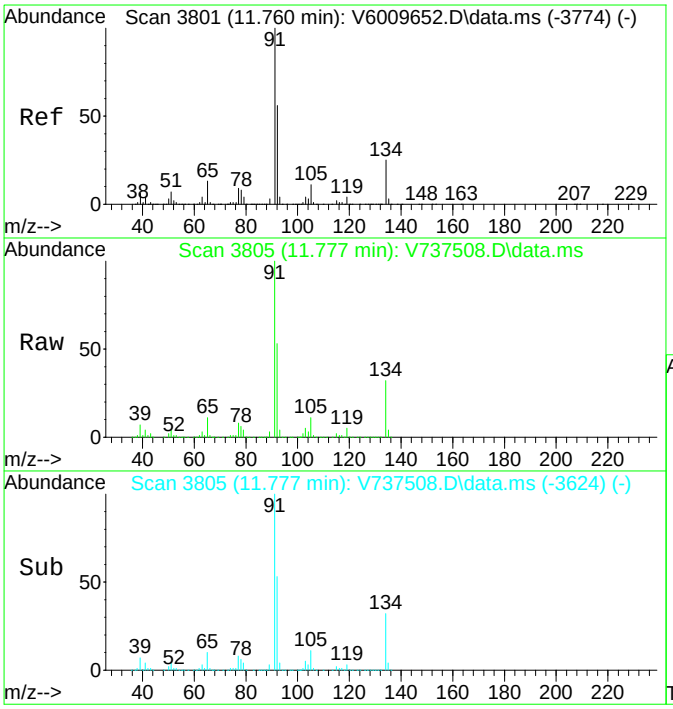


#90
1,2-Dichlorobenzene
Concen: 9.98 ppb
RT: 11.863 min Scan# 3836
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:146 Resp: 234817

Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	62.2	41.6	86.4
111	0.0	0.0	0.0

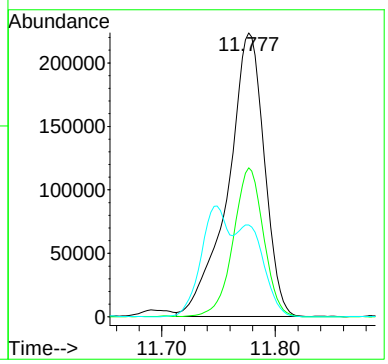


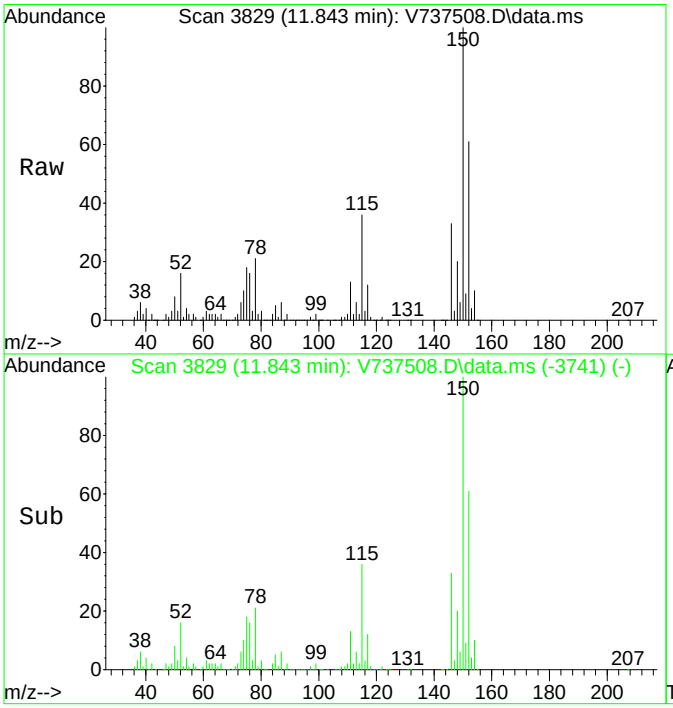


#91
n-Butylbenzene
Concen: 14.36 ppb
RT: 11.777 min Scan# 3805
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 91 Resp: 498327

Ion	Ratio	Lower	Upper
91	100		
92	43.9	30.9	64.1
134	30.8	17.0	35.4

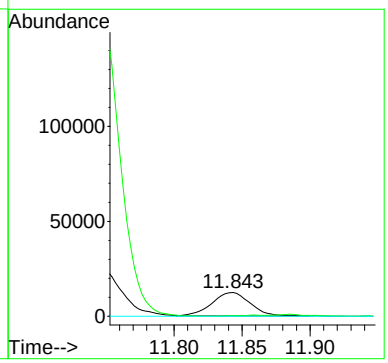


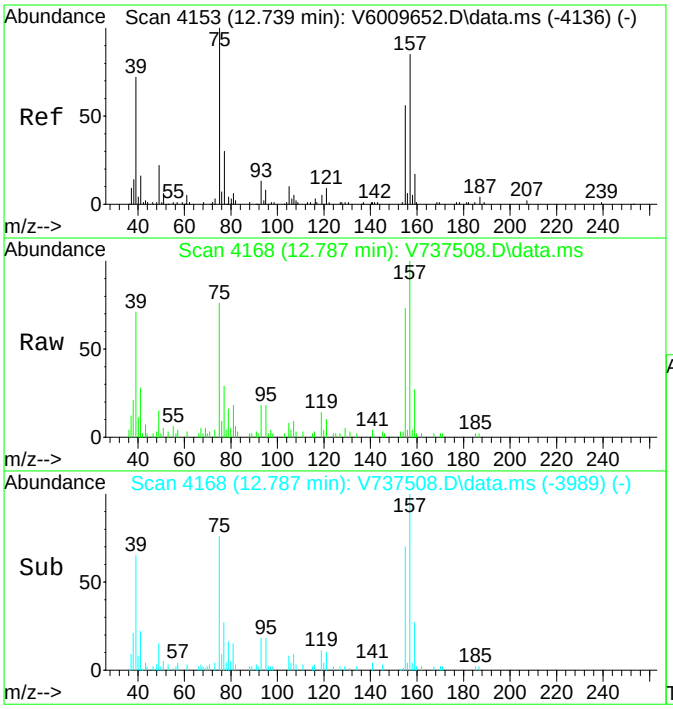


#92
Hexachloroethane
Concen: 3.26 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.256 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:117 Resp: 24153

Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.3	117.5#
201	0.0	66.1	99.1#

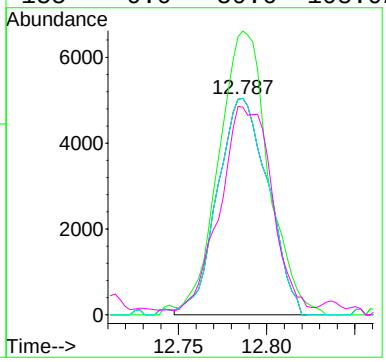


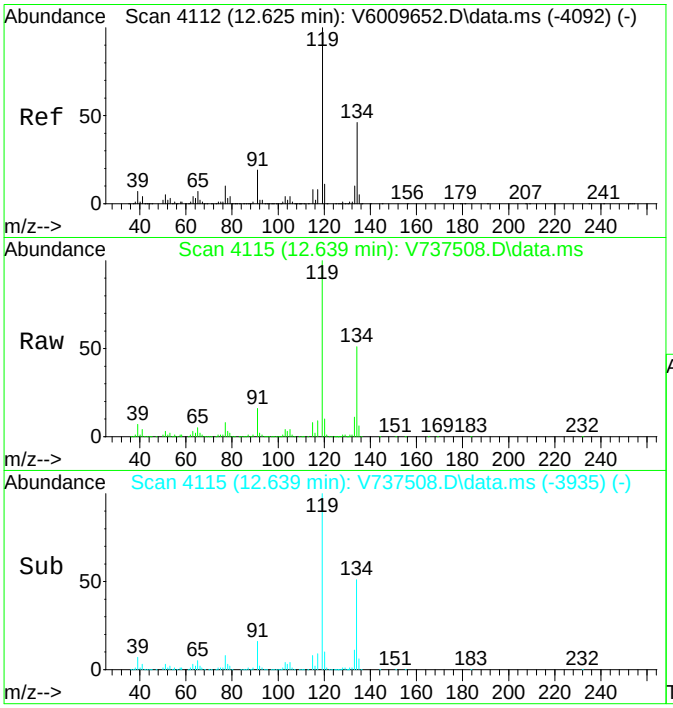


#93
1,2-Dibromo-3-chloropropane
Concen: 9.30 ppb
RT: 12.787 min Scan# 4168
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 75 Resp: 10056

Ion	Ratio	Lower	Upper
75	100		
157	128.7	80.2	120.2#
75	100.0	65.0	135.0
155	0.0	50.6	105.0#

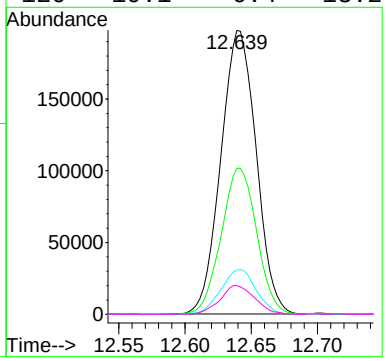


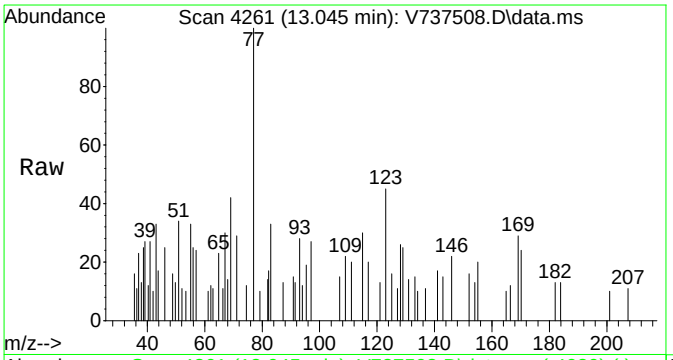


#94
1,2,4,5-Tetramethylbenzene
Concen: 10.55 ppb
RT: 12.639 min Scan# 4115
Delta R.T. 0.000 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:119 Resp: 367096

Ion	Ratio	Lower	Upper
119	100		
134	51.8	31.2	64.8
91	15.9	10.5	21.7
120	10.1	6.4	13.2

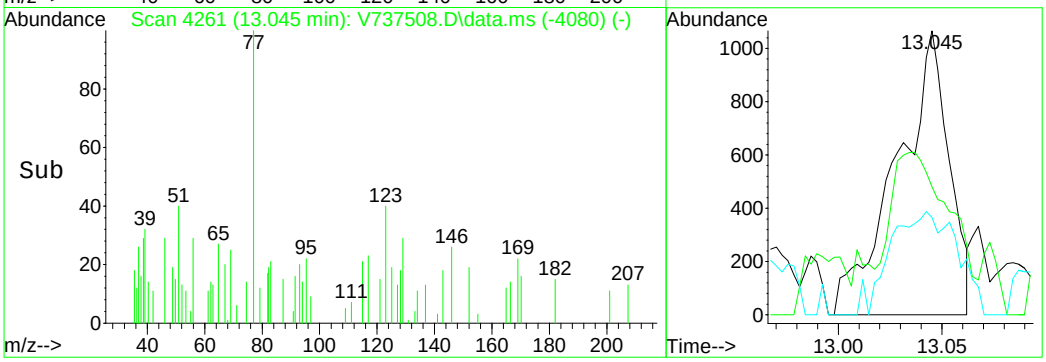


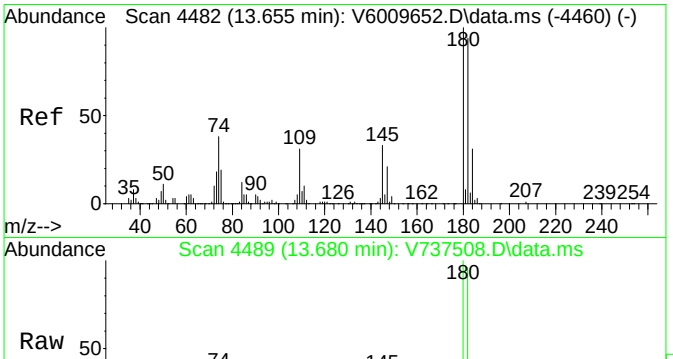


#95
Nitrobenzene
Concen: 10.65 ppb
RT: 13.045 min Scan# 4261
Delta R.T. 0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion: 77 Resp: 1867

Ion	Ratio	Lower	Upper
77	100		
123	66.3	30.3	45.5#
51	46.9	40.8	61.2

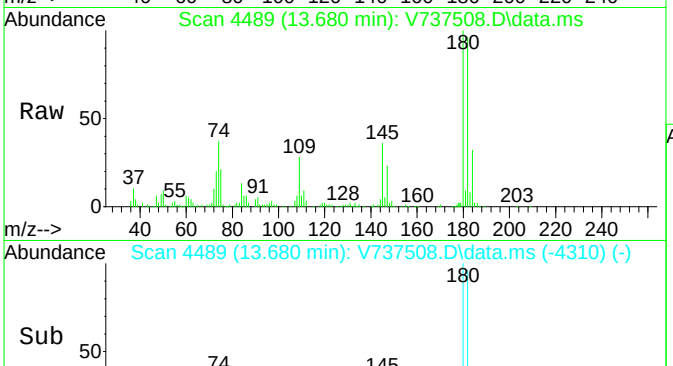


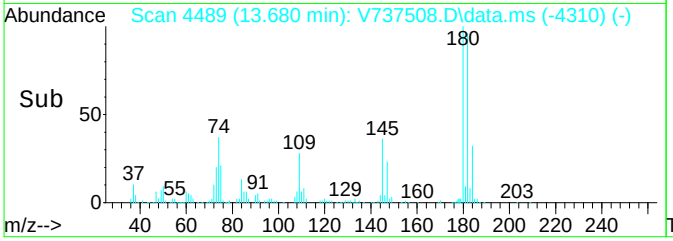


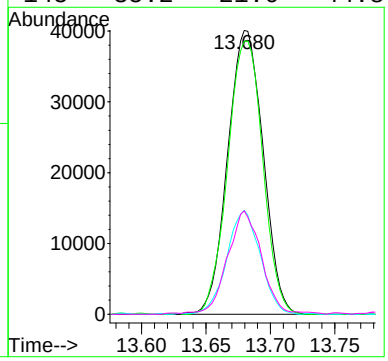
#96
1,2,4-Trichlorobenzene
Concen: 9.36 ppb
RT: 13.680 min Scan# 4489
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

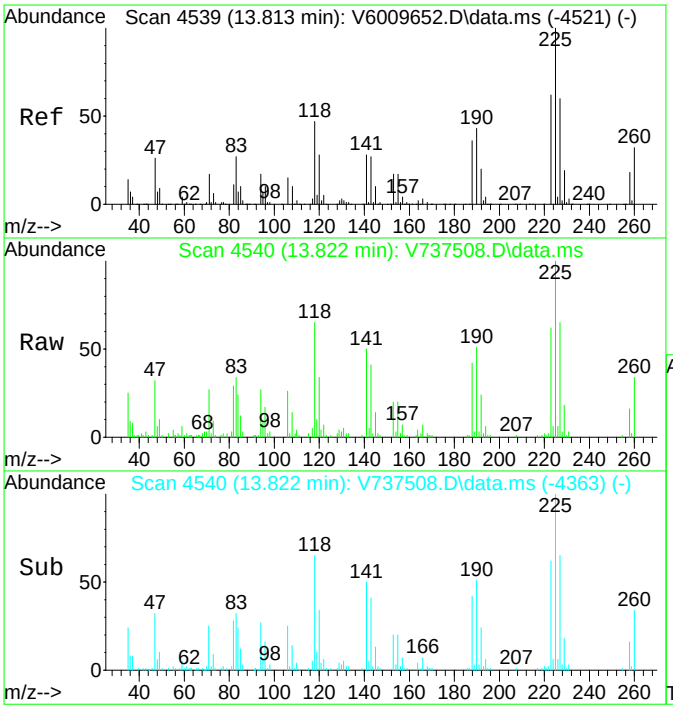
Tgt Ion:180 Resp: 76675

Ion	Ratio	Lower	Upper
180	100		
182	95.3	62.1	129.1
74	34.6	20.0	41.6
145	35.2	21.6	44.8





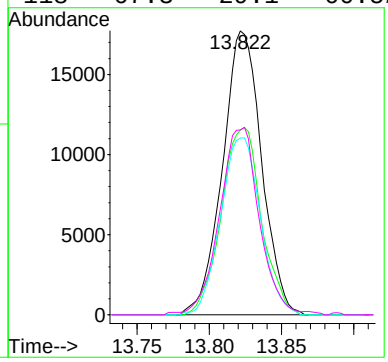


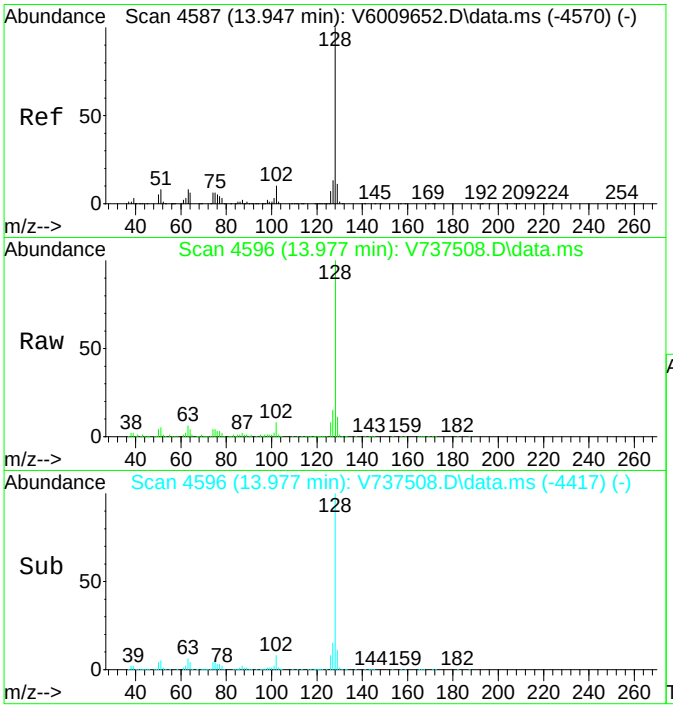


#97
Hexachloro-1,3-Butadiene
Concen: 10.09 ppb
RT: 13.822 min Scan# 4540
Delta R.T. -0.008 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:225 Resp: 33463

Ion	Ratio	Lower	Upper
225	100		
227	67.7	41.6	86.4
223	63.5	40.8	84.6
118	67.3	29.1	60.5#

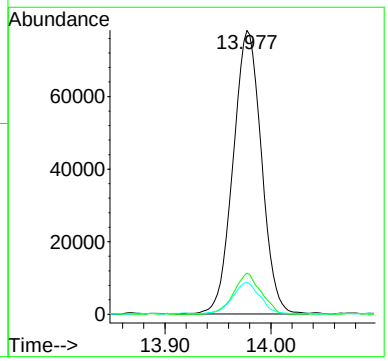


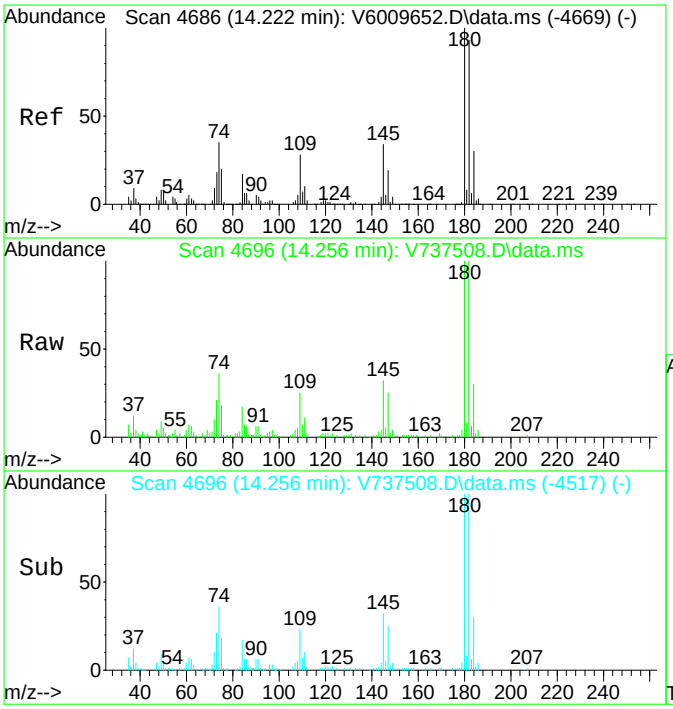


#98
Naphthalene
Concen: 9.58 ppb
RT: 13.977 min Scan# 4596
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:128 Resp: 144945

Ion	Ratio	Lower	Upper
128	100		
127	14.1	8.3	17.1
129	10.8	7.1	14.7

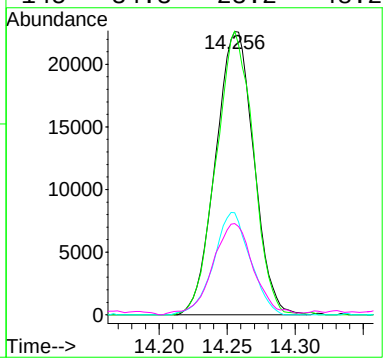




#99
1,2,3-Trichlorobenzene
Concen: 9.09 ppb
RT: 14.256 min Scan# 4696
Delta R.T. -0.003 min
Lab File: V737508.D
Acq: 22 Dec 2019 4:04 pm

Tgt Ion:180 Resp: 44206

Ion	Ratio	Lower	Upper
180	100		
182	97.2	62.0	128.8
74	34.6	18.9	39.1
145	34.3	23.2	48.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737507.D
Acq On : 22 Dec 2019 3:35 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BSD1
Misc : QBV7122219A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 23 08:52:34 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.823	70	78380	10.00	ppb	#	0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	352074	10.00	ppb	#	0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	126853	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	92273	10.24	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.40%				
53) Toluene-d8 (SURR)	7.344	98	456857	10.07	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.70%				
73) p-Bromofluorobenzene (...	10.121	95	137495	10.78	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	192975	21.34	ppb		99
3) Chloromethane	1.699	50	127191	14.67	ppb		96
4) Vinyl Chloride	1.799	62	184141	12.29	ppb		99
5) Bromomethane	2.156	94	107861	16.53	ppb		99
6) Chloroethane	2.259	64	160713	12.28	ppb		100
7) Trichlorofluoromethane	2.498	101	560474	11.33	ppb		99
8) Ethanol	2.793	45	49581	1605.84	ppb	#	52
9) Freon-113	3.004	101	122560	11.55	ppb	#	71
10) 1,1-Dichloroethylene	3.032	61	161805	11.47	ppb	#	75
11) Acrolein	2.985	56	5780	5.85	ppb		91
12) Acetone	3.138	43	14185	9.19	ppb	#	100
13) Iodomethane	3.210	142	65875	26.15	ppb		97
14) Ally Chloride	3.408	41	150275	11.61	ppb	#	78
15) Methyl Acetate	3.753	43	54475	14.25	ppb		98
16) Carbon disulfide	3.255	76	357752	11.54	ppb		100
17) tert-Butyl Alcohol (TBA)	3.677	59	32724	51.06	ppb	#	100
18) Methylene Chloride	3.552	49	121077	11.20	ppb	#	60
19) Acrylonitrile	3.830	53	14365	9.82	ppb	#	67
20) trans-1,2-Dichloroethy...	3.783	61	154752	11.80	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.753	73	297406	11.22	ppb		94
22) 1,1-Dichloroethane	4.206	63	200677	10.61	ppb		99
23) Vinyl Acetate	4.234	43	120439	8.52	ppb	#	100
24) Diisopropyl ether (DIPE)	4.189	45	293677	10.79	ppb	#	93
25) Ethyl-tert-Butyl ether...	4.532	59	297657	11.53	ppb	#	92
26) cis-1,2-Dichloroethylene	4.763	61	169112	11.06	ppb	#	65
27) 2-Butanone	4.785	72	11038	11.64	ppb	#	100
28) 2,2-Dichloropropane	4.729	77	183971	11.51	ppb	#	99
29) Tetrahydrofuran	5.021	71	9094	9.97	ppb	#	52
30) Bromochloromethane	5.005	49	70960	10.41	ppb	#	64
31) Chloroform	5.069	83	218421	10.69	ppb	#	99
32) 1,1,1-Trichloroethane	5.199	97	216738	11.52	ppb	#	99
33) Cyclohexane	5.210	56	161742	11.41	ppb	#	71
34) 1,1-Dichloropropylene	5.350	75	184740	11.14	ppb		86
36) Carbon Tetrachloride	5.341	117	202370	10.74	ppb		99
37) tert-Amyl alcohol (TAA)	5.581	59	70682	107.24	ppb	#	1
38) 1,2-Dichloroethane	5.622	62	123870	10.75	ppb		98
39) Benzene	5.558	78	494207	11.01	ppb	#	69
40) tert-Amyl methyl ether...	5.611	73	382575	11.47	ppb	#	99
42) Trichloroethylene	6.165	95	134107	10.66	ppb		83
43) Methyl Cyclohexane	6.293	83	193695	11.16	ppb	#	71
44) Methyl Methacrylate	6.476	69	58584	10.56	ppb	#	26
45) Dibromomethane	6.557	93	65267	10.11	ppb		99
46) Bromodichloromethane	6.696	83	153011	10.68	ppb		95
47) 1,2-Dichloropropane	6.412	63	102940	10.16	ppb		95
48) 1,4-Dioxane	6.552	88	6452	167.45	ppb		95
49) 2-Nitropropane	6.947	43	28016	10.64	ppb	#	68
50) 2-Chloroethyl vinyl ether	6.952	63	19174	8.25	ppb		96
51) cis-1,3-Dichloropropene	7.114	75	185426	11.35	ppb		88

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737507.D
Acq On : 22 Dec 2019 3:35 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BSD1
Misc : QBV7122219A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 23 08:52:34 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

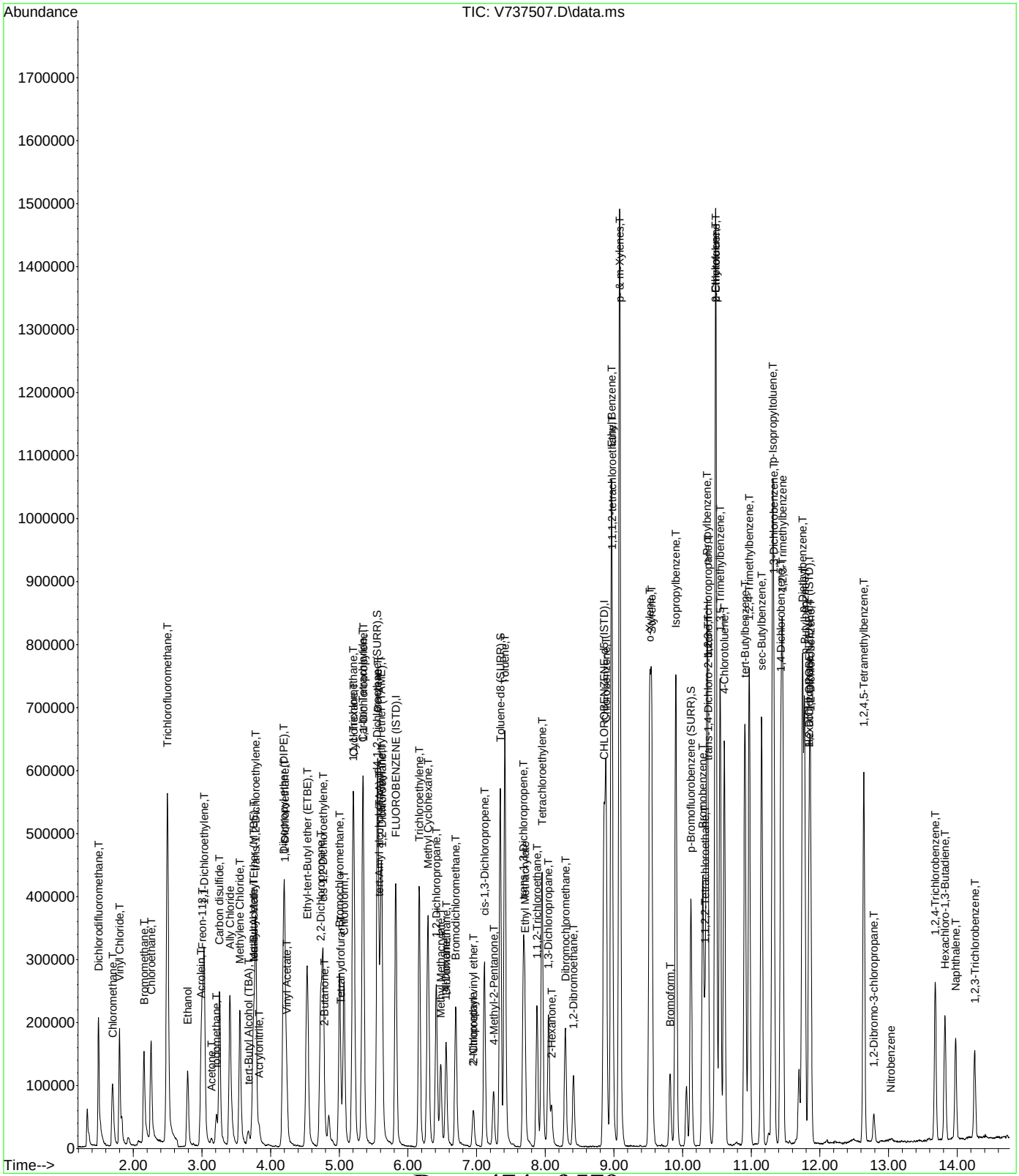
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.250	43	69764	11.80	ppb	#	91
54) Toluene	7.411	91	569626	10.96	ppb		99
55) Ethyl Methacrylate	7.703	69	128964	11.29	ppb	#	26
56) trans-1,3-Dichloropropene	7.681	75	154826	11.08	ppb		99
57) 1,1,2-Trichloroethane	7.879	97	78841	9.85	ppb		92
58) 1,3-Dichloropropane	8.046	76	139823	10.38	ppb	#	100
59) Tetrachloroethylene	7.954	166	139446	9.09	ppb	#	100
60) 2-Hexanone	8.093	43	46440	10.97	ppb		99
61) Dibromochloromethane	8.293	129	115292	11.15	ppb	#	94
62) 1,2-Dibromoethane	8.410	107	81707	10.03	ppb		97
63) Chlorobenzene	8.886	112	386330	10.44	ppb	#	88
64) 1,1,1,2-tetrachloroethane	8.975	131	148472	10.72	ppb		98
65) Ethyl Benzene	8.964	91	646833	10.89	ppb		98
66) p- & m-Xylenes	9.083	91	993165	21.41	ppb		94
67) o-Xylene	9.520	91	482532	10.87	ppb		98
68) Styrene	9.548	104	407247	10.80	ppb	#	100
69) Bromoform	9.818	173	55855	10.20	ppb	#	99
71) p-Ethyltoluene	10.480	105	650505	11.52	ppb	#	87
72) Isopropylbenzene	9.901	105	620657	10.48	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.324	83	100835	10.41	ppb	#	99
75) Bromobenzene	10.294	77	192397	10.92	ppb		80
76) trans-1,4-Dichloro-2-b...	10.374	75	107397	11.18	ppb	#	85
77) 1,2,3-Trichloropropane	10.369	110	31082	10.44	ppb		85
78) n-Propylbenzene	10.355	91	717168	10.68	ppb		97
79) 2-Chlorotoluene	10.483	91	480628	10.88	ppb		97
80) 4-Chlorotoluene	10.608	91	404396	10.64	ppb		96
81) 1,3,5-Trimethylbenzene	10.547	105	493376	10.65	ppb		95
82) tert-Butylbenzene	10.909	119	438330	10.62	ppb		92
83) 1,2,4-Trimethylbenzene	10.970	105	495365	10.51	ppb		96
84) sec-Butylbenzene	11.151	105	595656	11.49	ppb		97
85) 1,3-Dichlorobenzene	11.329	146	293889	10.20	ppb		96
86) p-Isopropyltoluene	11.312	119	574245	11.05	ppb		96
87) 1,4-Dichlorobenzene	11.432	146	287277	10.08	ppb		94
88) 1,2,3-Trimethylbenzene	11.457	105	489559	11.10	ppb		97
89) p-Diethylbenzene	11.746	105	282656	12.89	ppb		89
90) 1,2-Dichlorobenzene	11.863	146	244046	10.22	ppb	#	99
91) n-Butylbenzene	11.777	91	521237	14.79	ppb		94
92) Hexachloroethane	11.843	117	24124	3.22	ppb	#	4
93) 1,2-Dibromo-3-chloropr...	12.784	75	11450	10.43	ppb	#	87
94) 1,2,4,5-Tetramethylben...	12.642	119	383158	10.85	ppb		96
95) Nitrobenzene	13.031	77	1277	7.18	ppb	#	30
96) 1,2,4-Trichlorobenzene	13.680	180	79173	9.52	ppb		97
97) Hexachloro-1,3-Butadiene	13.822	225	35133	10.44	ppb	#	91
98) Naphthalene	13.977	128	150253	9.78	ppb		97
99) 1,2,3-Trichlorobenzene	14.256	180	45138	9.15	ppb		96

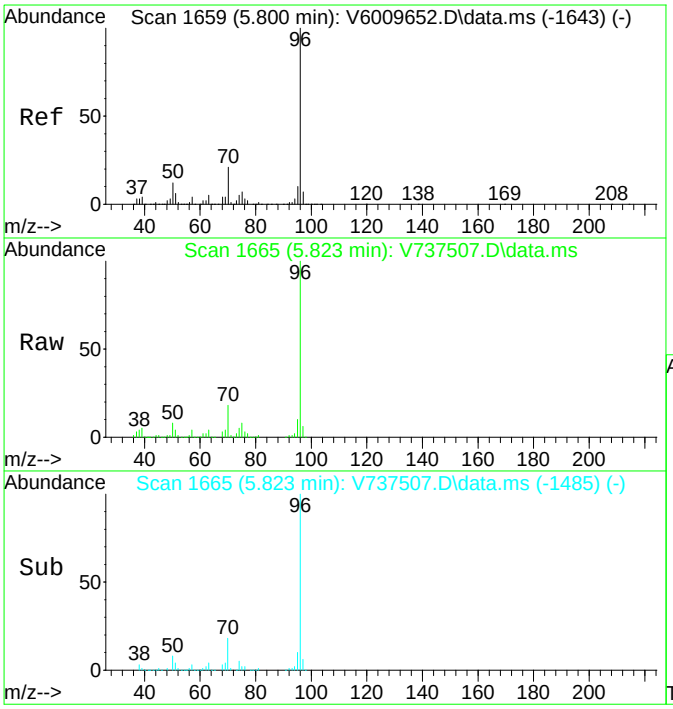
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737507.D
Acq On : 22 Dec 2019 3:35 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BSD1
Misc : QBV7122219A
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 23 08:52:34 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

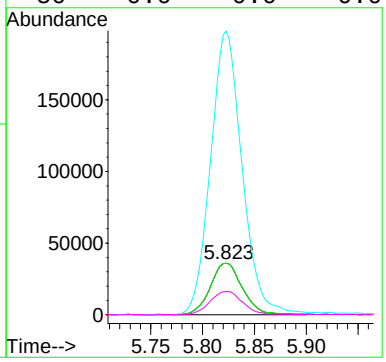


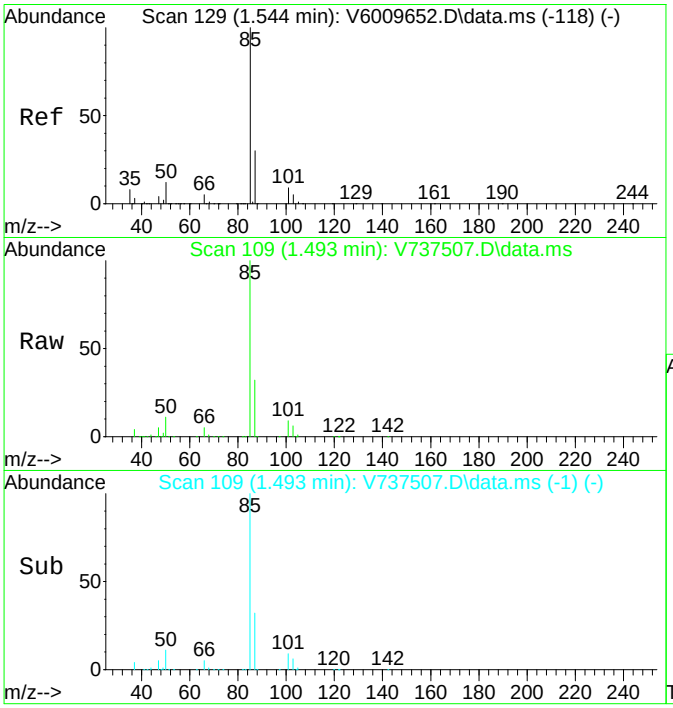


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.823 min Scan# 1665
Delta R.T. 0.001 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 70 Resp: 78380

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	536.0	323.6	672.2
50	0.0	0.0	0.0

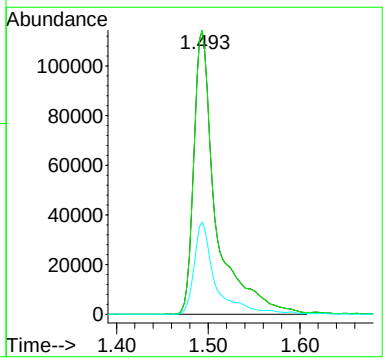


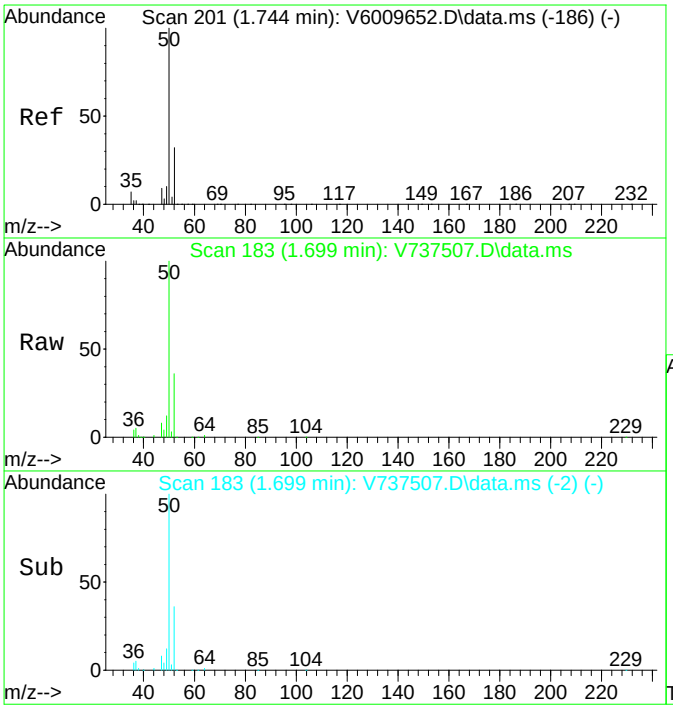


#2
Dichlorodifluoromethane
Concen: 21.34 ppb
RT: 1.493 min Scan# 109
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 85 Resp: 192975

Ion	Ratio	Lower	Upper
85	100		
85	100.0	65.0	135.0
87	30.0	21.1	43.9

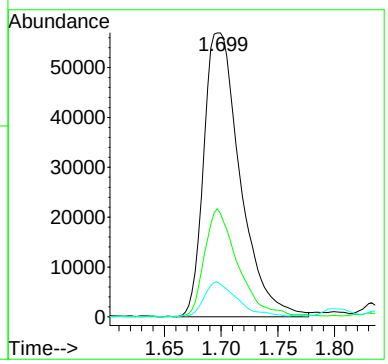


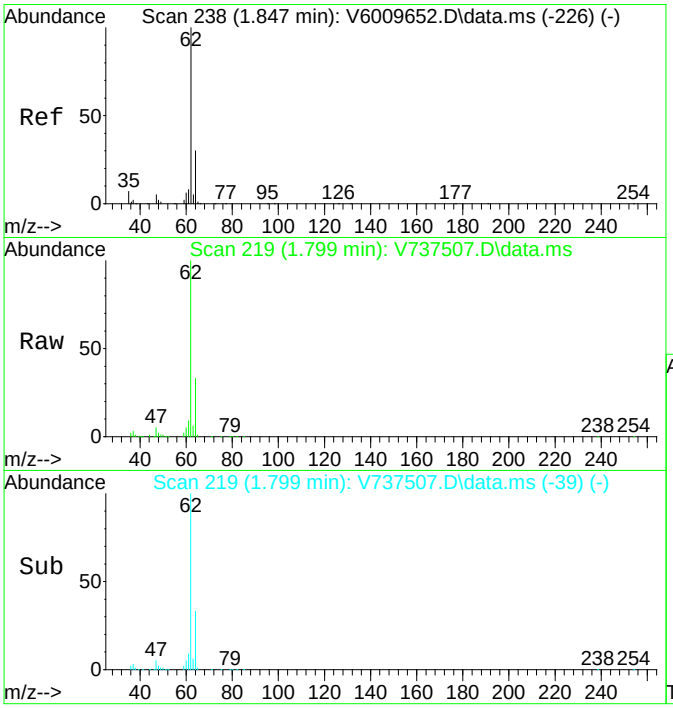


#3
Chloromethane
Concen: 14.67 ppb
RT: 1.699 min Scan# 183
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 50 Resp: 127191

Ion	Ratio	Lower	Upper
50	100		
52	34.9	20.9	43.5
49	11.4	6.6	13.6

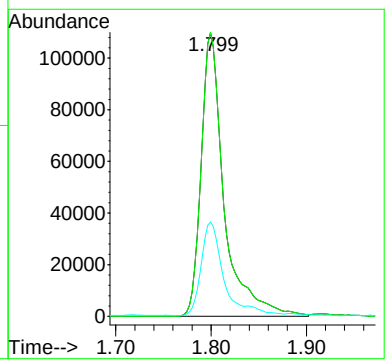


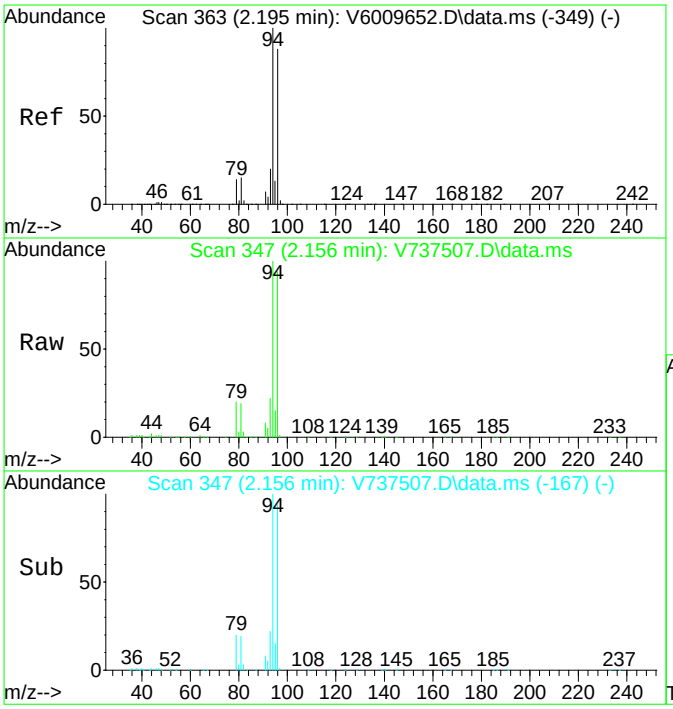


#4
Vinyl Chloride
Concen: 12.29 ppb
RT: 1.799 min Scan# 219
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 62 Resp: 184141

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	32.7	20.2	42.0

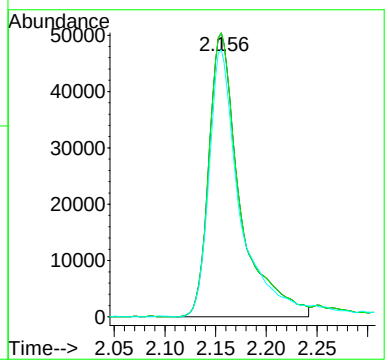


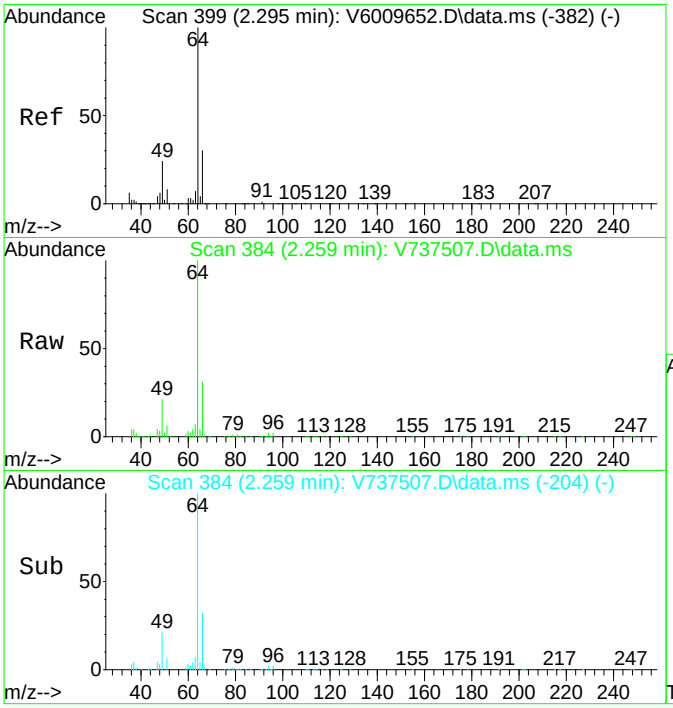


#5
Bromomethane
Concen: 16.53 ppb
RT: 2.156 min Scan# 347
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 94 Resp: 107861

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	93.3	45.9	137.6

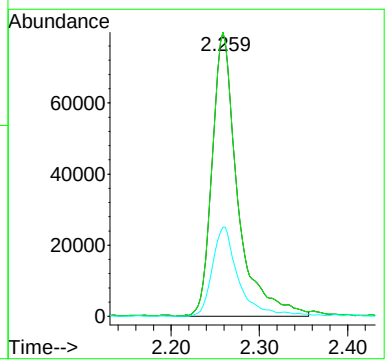


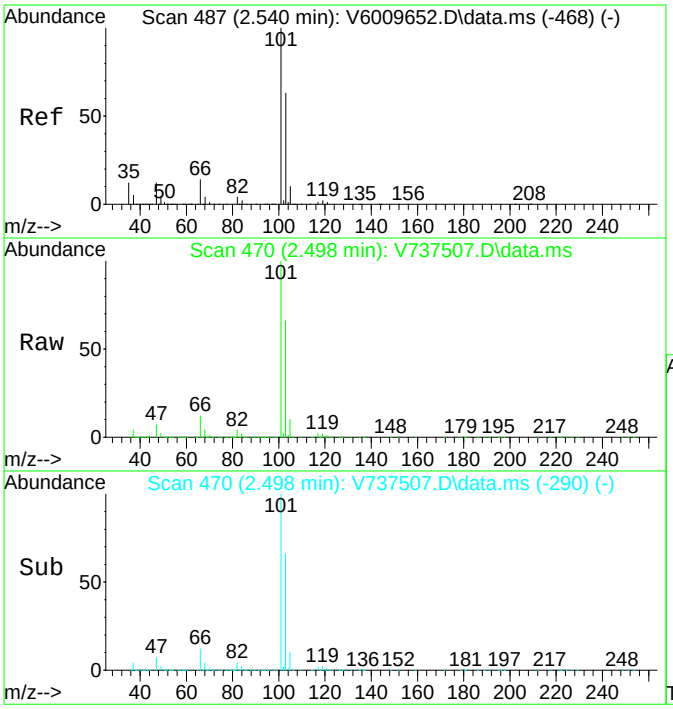


#6
Chloroethane
Concen: 12.28 ppb
RT: 2.259 min Scan# 384
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 64 Resp: 160713

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	31.1	20.6	42.8

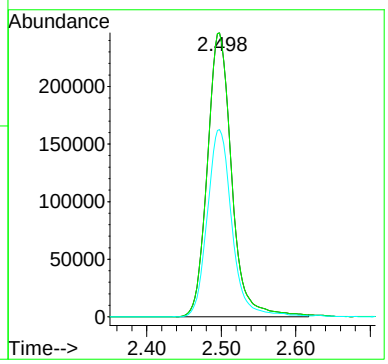


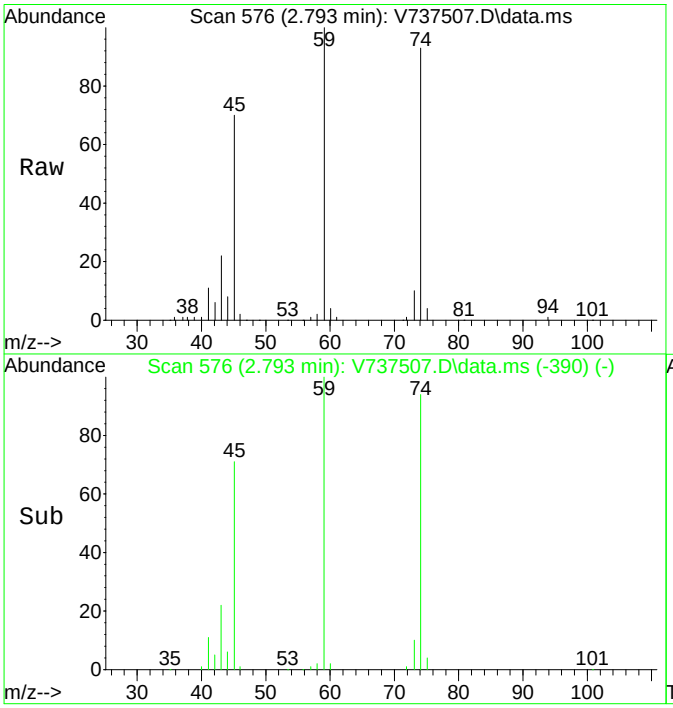


#7
Trichlorofluoromethane
Concen: 11.33 ppb
RT: 2.498 min Scan# 470
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:101 Resp: 560474

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	66.9	41.9	87.1

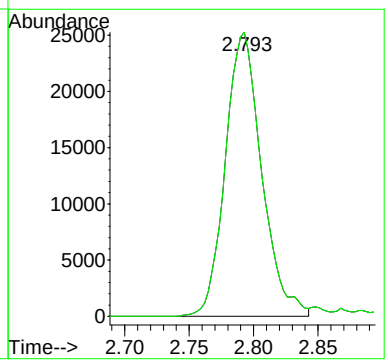


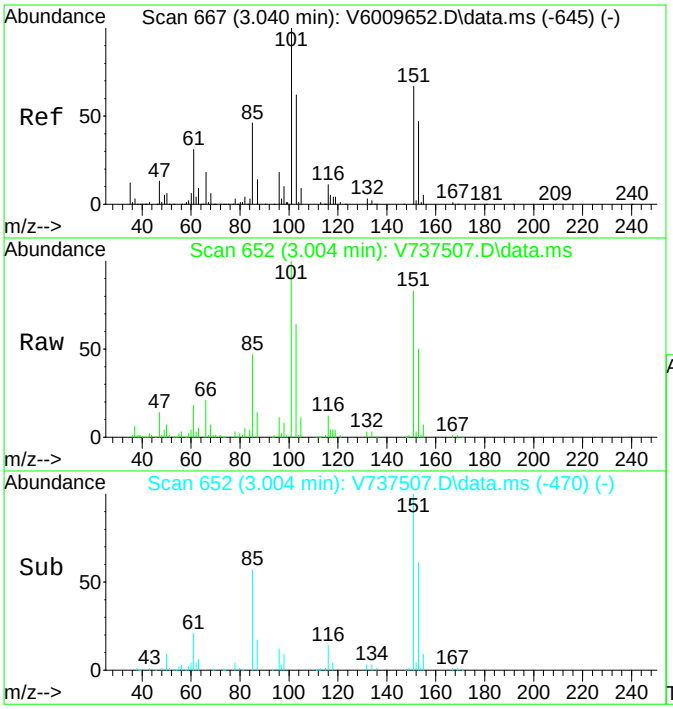


#8
Ethanol
Concen: 1605.84 ppb
RT: 2.793 min Scan# 576
Delta R.T. 0.017 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 45 Resp: 49581

Ion	Ratio	Lower	Upper
45	100		
45	100.0	31.3	93.9#

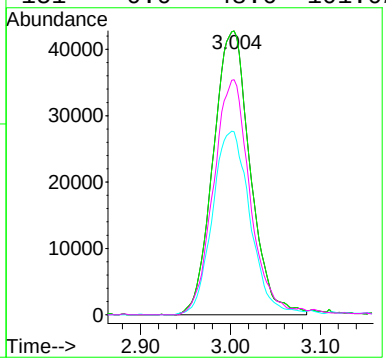


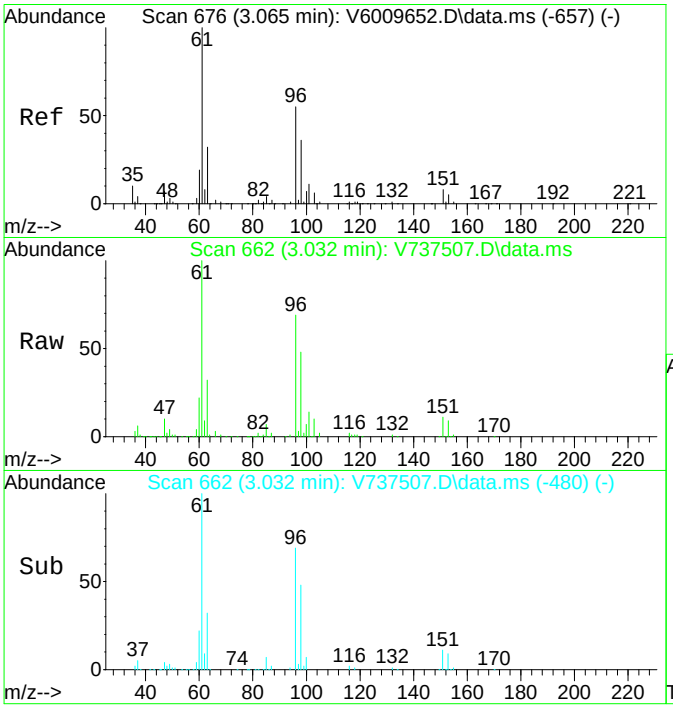


#9
Freon-113
Concen: 11.55 ppb
RT: 3.004 min Scan# 652
Delta R.T. 0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:101 Resp: 122560

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	65.8	40.9	84.9
151	0.0	48.6	101.0#

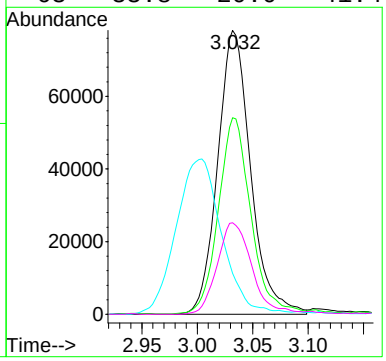


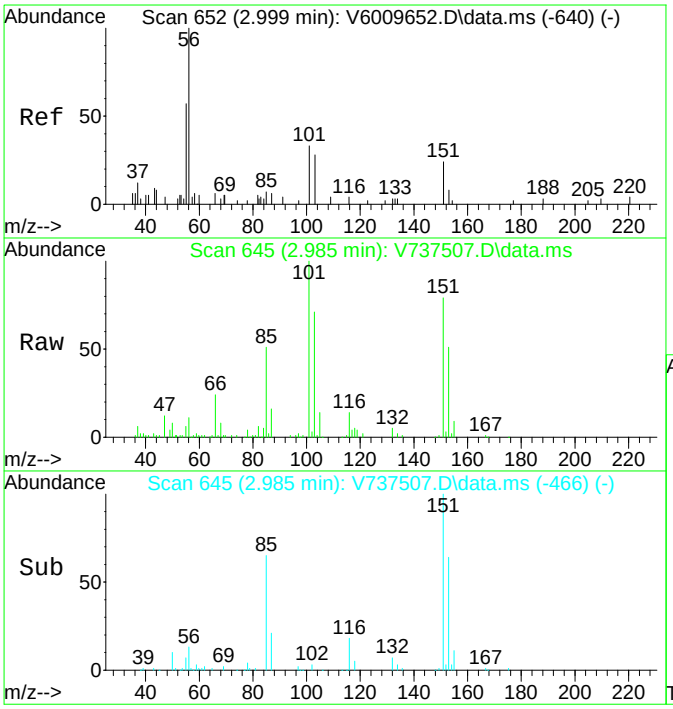


#10
1,1-Dichloroethylene
Concen: 11.47 ppb
RT: 3.032 min Scan# 662
Delta R.T. 0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 61 Resp: 161805

Ion	Ratio	Lower	Upper
61	100		
96	68.0	33.9	70.3
101	75.7	32.0	66.4#
63	33.8	20.0	41.4

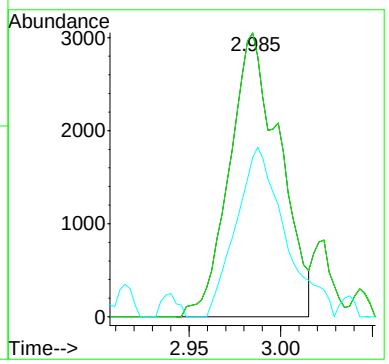


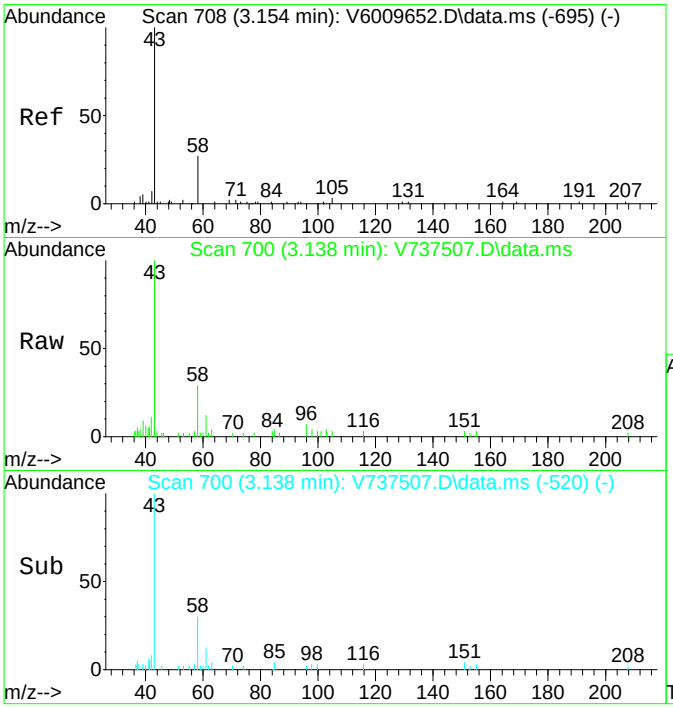


#11
Acrolein
Concen: 5.85 ppb
RT: 2.985 min Scan# 645
Delta R.T. -0.002 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 56 Resp: 5780

Ion	Ratio	Lower	Upper
56	100		
56	100.0	74.8	112.2
55	58.4	34.3	102.9

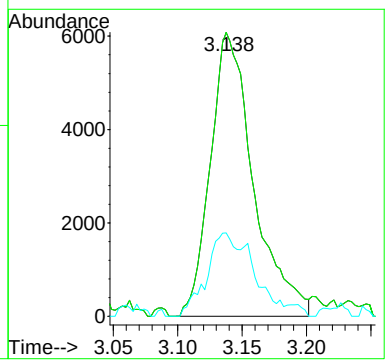


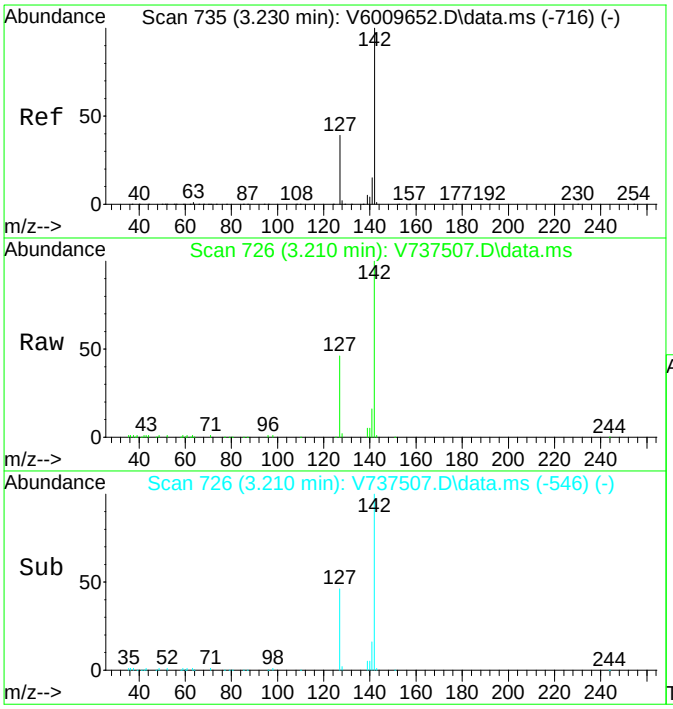


#12
Acetone
Concen: 9.19 ppb
RT: 3.138 min Scan# 700
Delta R.T. -0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 43 Resp: 14185

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	21.3	0.0	0.0#

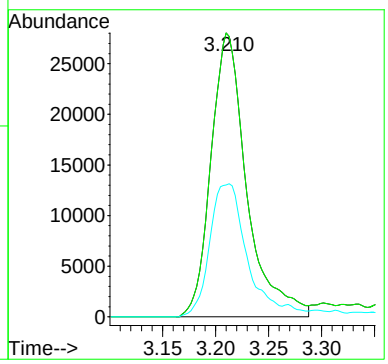


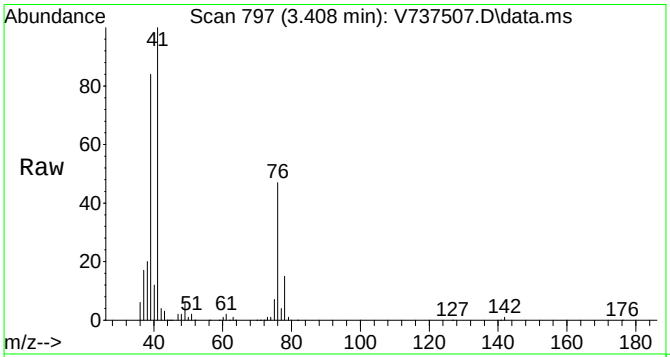


#13
Iodomethane
Concen: 26.15 ppb
RT: 3.210 min Scan# 726
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:142 Resp: 65875

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	47.8	20.9	62.8

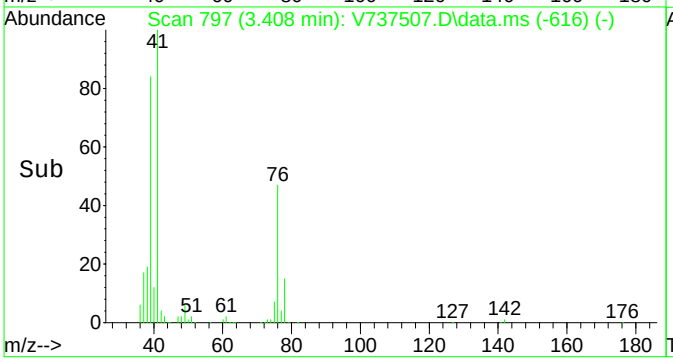


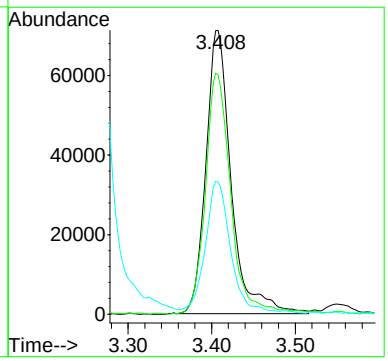


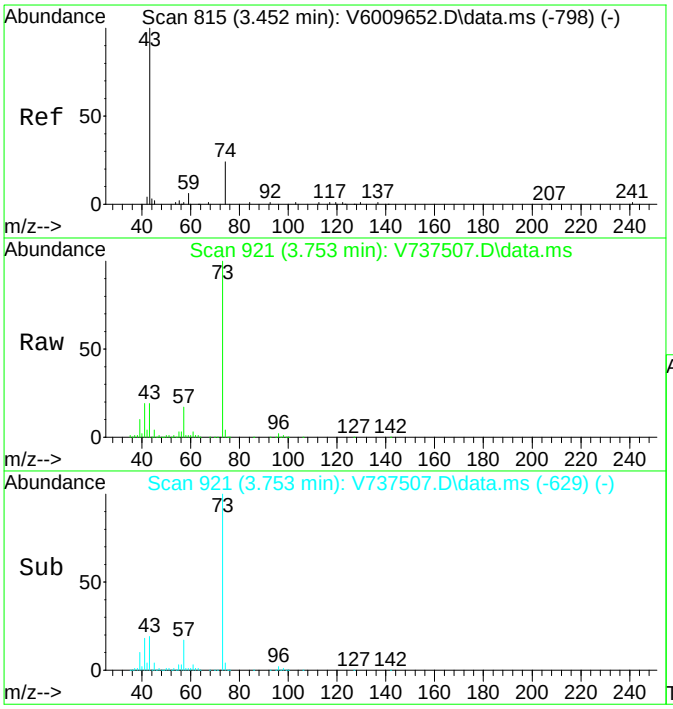
#14
Ally Chloride
Concen: 11.61 ppb
RT: 3.408 min Scan# 797
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 41 Resp: 150275

Ion	Ratio	Lower	Upper
41	100		
39	84.2	54.5	81.7#
76	45.0	24.3	36.5#



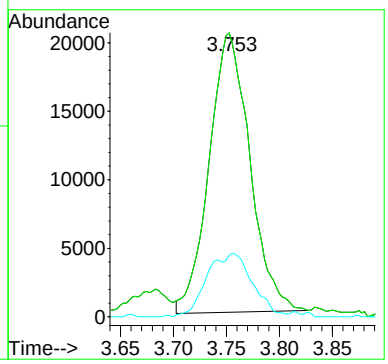


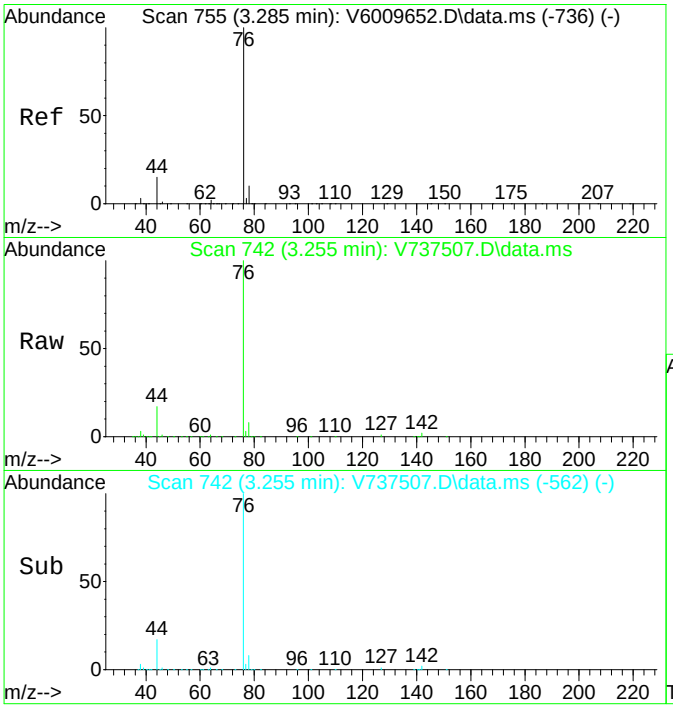


#15
Methyl Acetate
Concen: 14.25 ppb
RT: 3.753 min Scan# 921
Delta R.T. 0.312 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 43 Resp: 54475

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	10.5	8.5	25.5

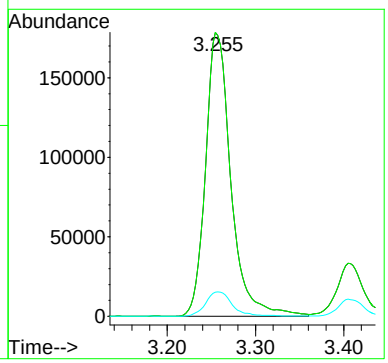


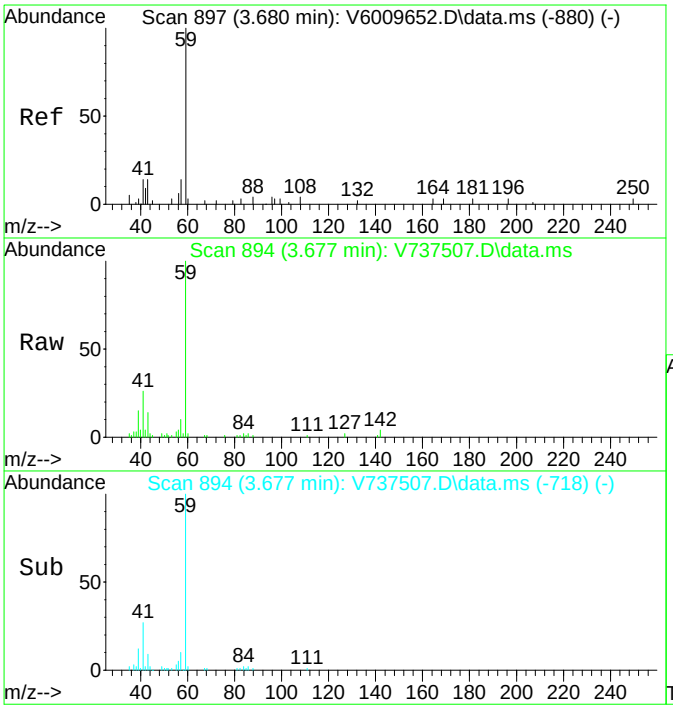


#16
Carbon disulfide
Concen: 11.54 ppb
RT: 3.255 min Scan# 742
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 76 Resp: 357752

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	9.0	4.5	13.5

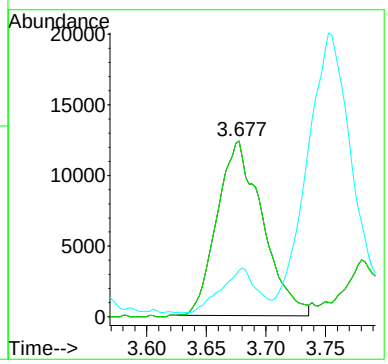


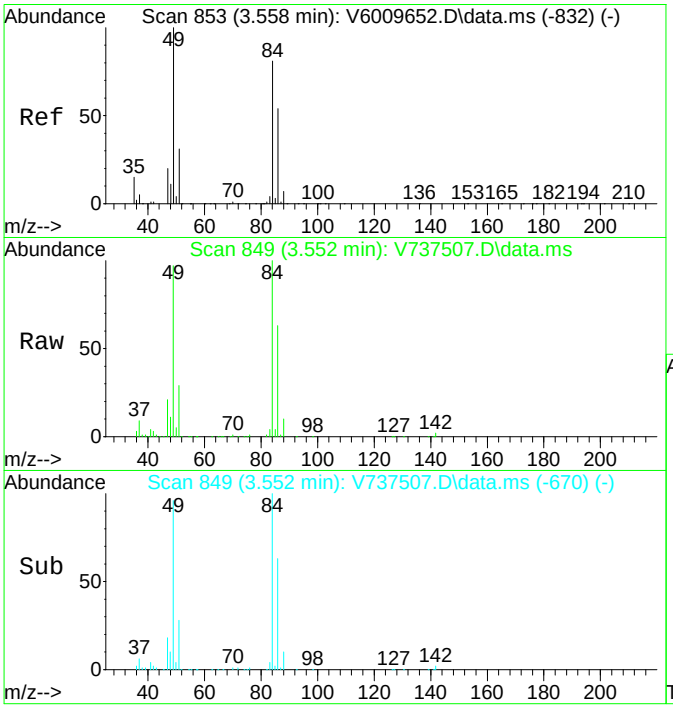


#17
tert-Butyl Alcohol (TBA)
Concen: 51.06 ppb
RT: 3.677 min Scan# 894
Delta R.T. -0.012 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 59 Resp: 32724

Ion	Ratio	Lower	Upper
59	100		
59	100.0	65.0	135.0
41	20.0	0.0	0.0#

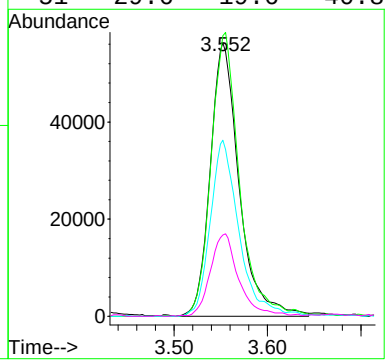


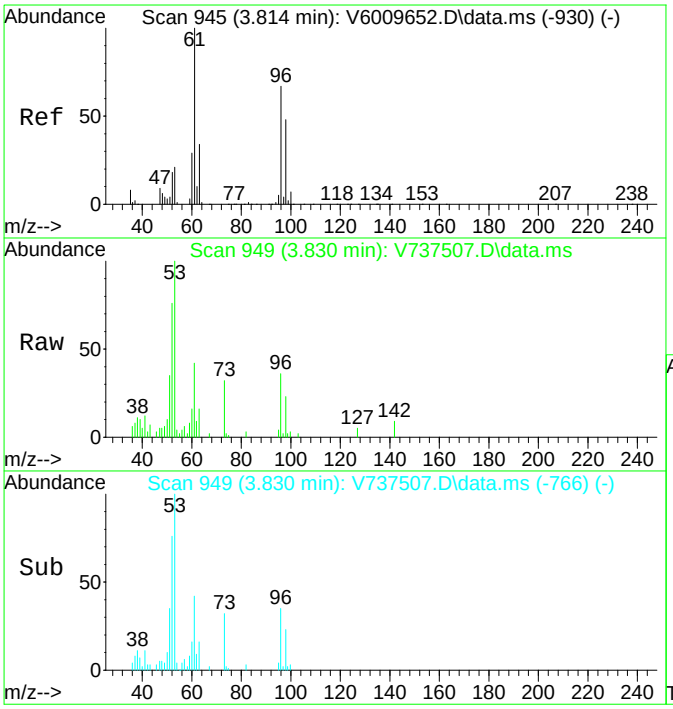


#18
Methylene Chloride
Concen: 11.20 ppb
RT: 3.552 min Scan# 849
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 49 Resp: 121077

Ion	Ratio	Lower	Upper
49	100		
84	101.0	38.0	78.8#
86	63.4	24.0	49.8#
51	29.6	19.6	40.8

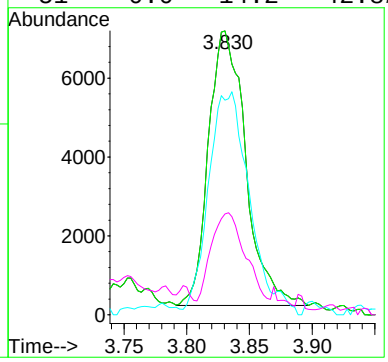


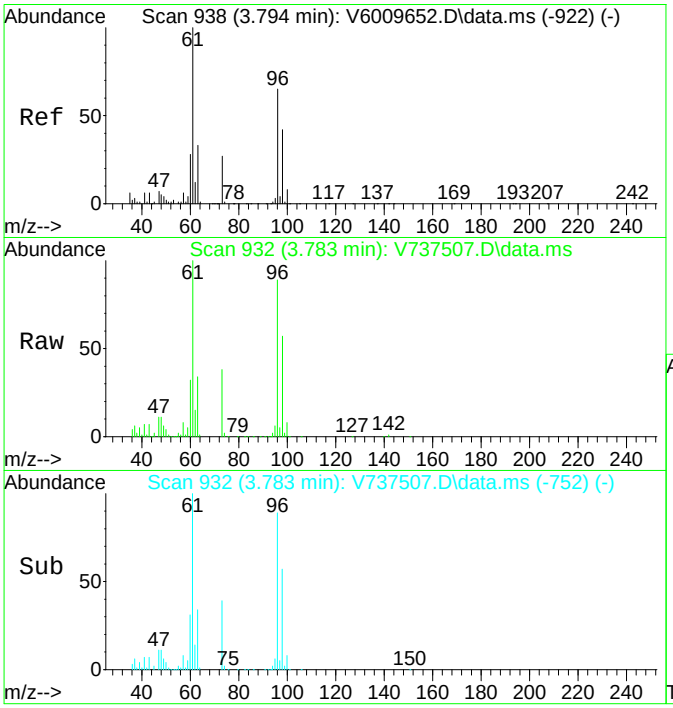


#19
Acrylonitrile
Concen: 9.82 ppb
RT: 3.830 min Scan# 949
Delta R.T. 0.008 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 53 Resp: 14365

Ion	Ratio	Lower	Upper
53	100		
53	100.0	62.2	93.4#
52	0.0	0.0	0.0
51	0.0	14.2	42.8#

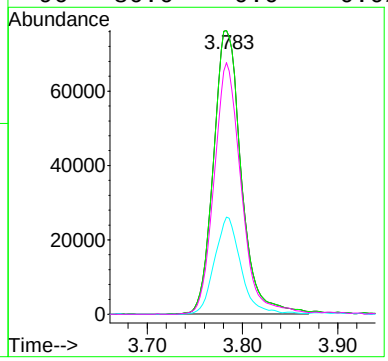


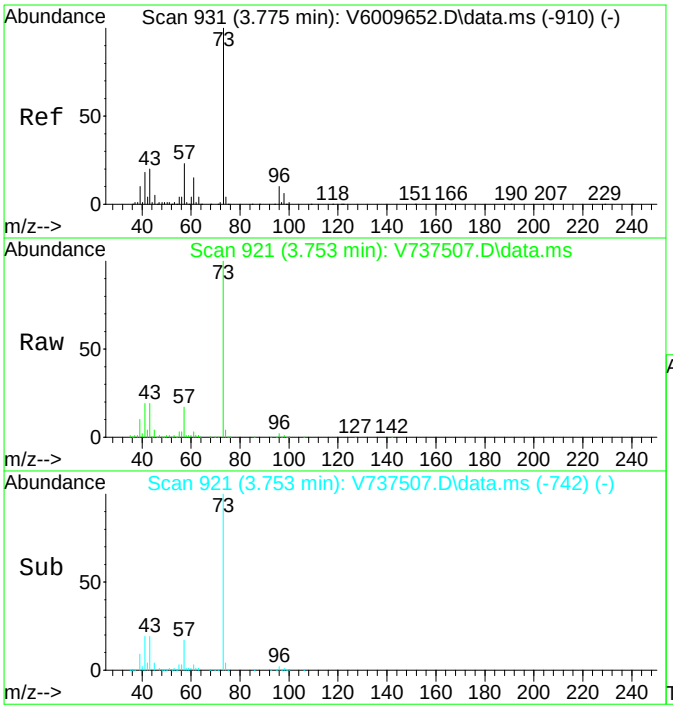


#20
trans-1,2-Dichloroethylene
Concen: 11.80 ppb
RT: 3.783 min Scan# 932
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 61 Resp: 154752

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	32.3	0.0	0.0#
96	86.6	0.0	0.0#

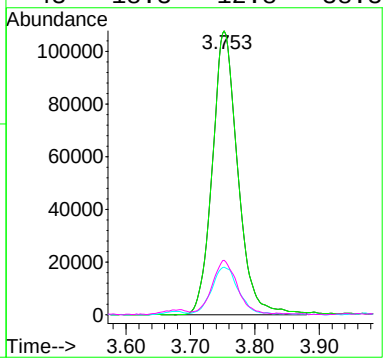


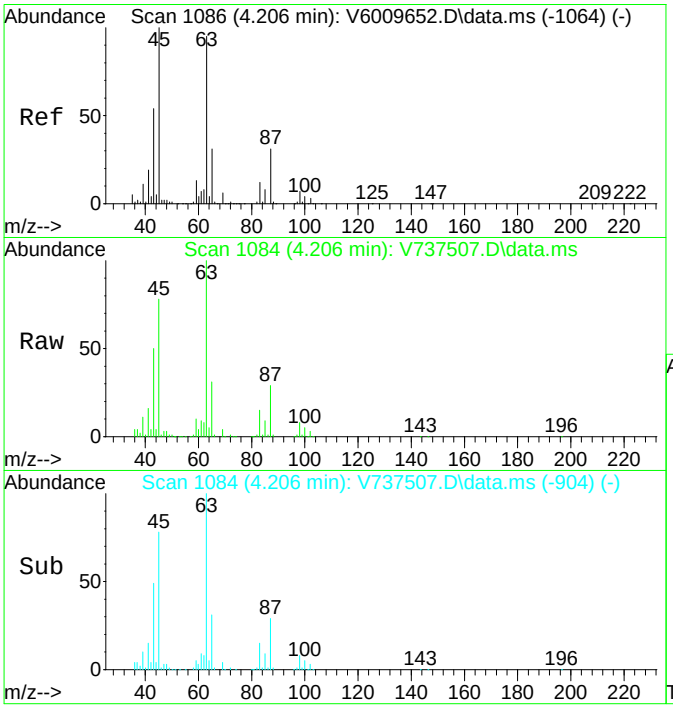


#21
tert-Butyl Methyl Ether (MTBE)
Concen: 11.22 ppb
RT: 3.753 min Scan# 921
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 73 Resp: 297406

Ion	Ratio	Lower	Upper
73	100		
73	100.0	80.0	120.0
57	16.6	13.2	39.5
43	18.3	12.8	38.3

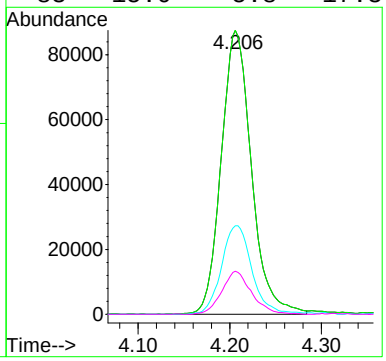


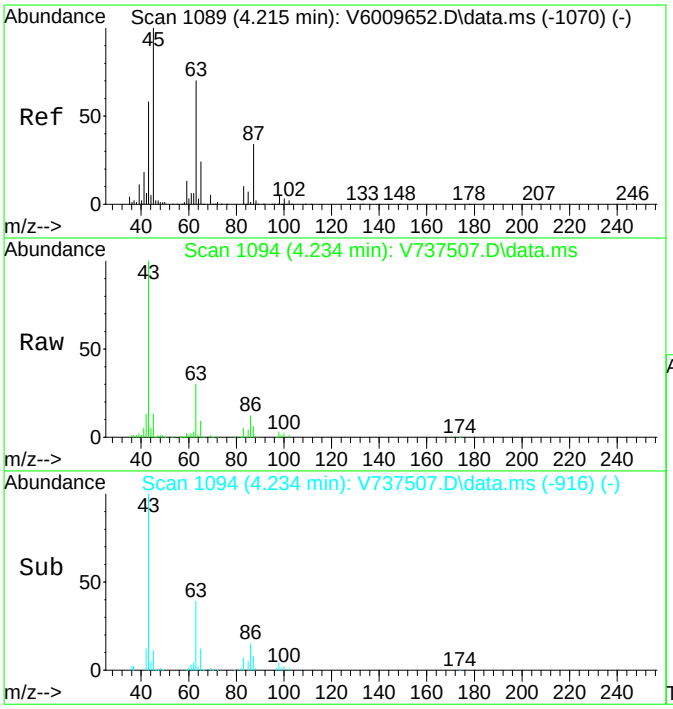


#22
1,1-Dichloroethane
Concen: 10.61 ppb
RT: 4.206 min Scan# 1084
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 63 Resp: 200677

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	31.6	19.9	41.3
83	15.0	5.8	17.3

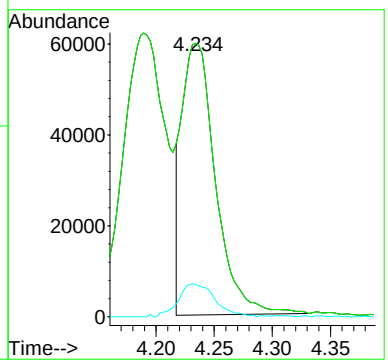


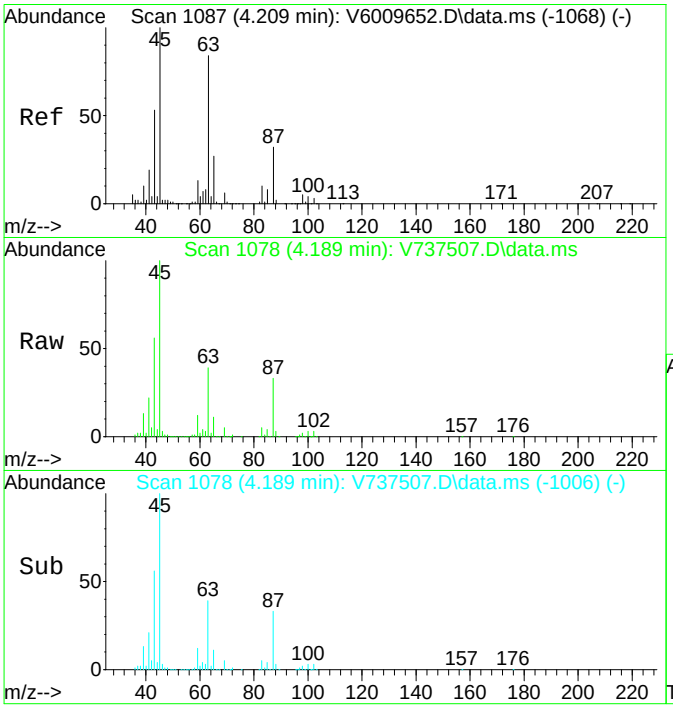


#23
Vinyl Acetate
Concen: 8.52 ppb
RT: 4.234 min Scan# 1094
Delta R.T. -0.005 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 43 Resp: 120439

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
86	0.0	0.0	0.0

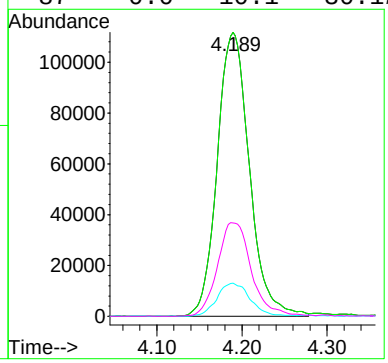


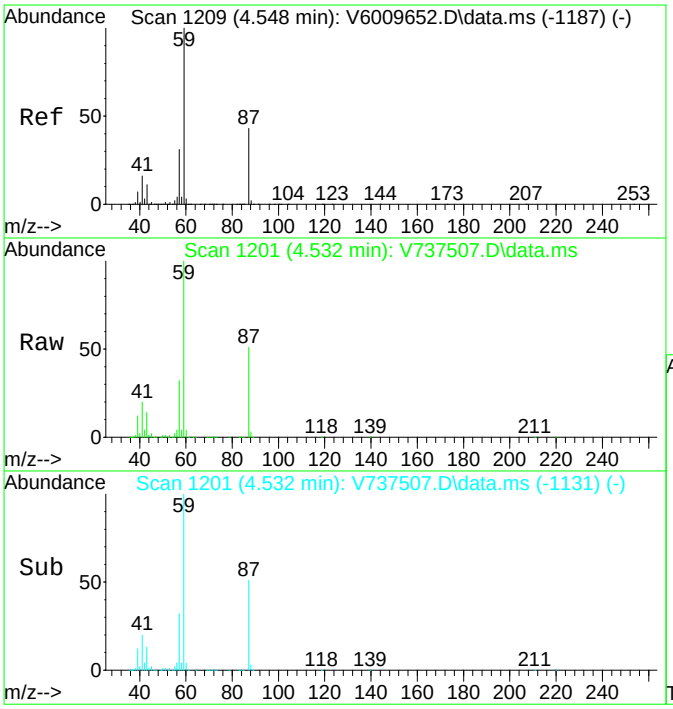


#24
Diisopropyl ether (DIPE)
Concen: 10.79 ppb
RT: 4.189 min Scan# 1078
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 45 Resp: 293677

Ion	Ratio	Lower	Upper
45	100		
45	100.0	80.0	120.0
59	12.0	5.1	15.3
87	0.0	10.1	30.1#

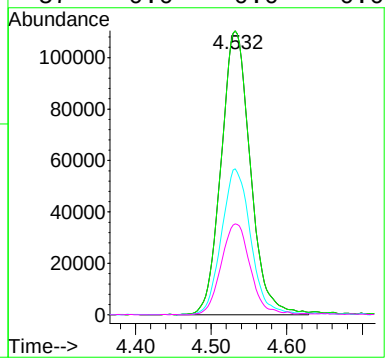


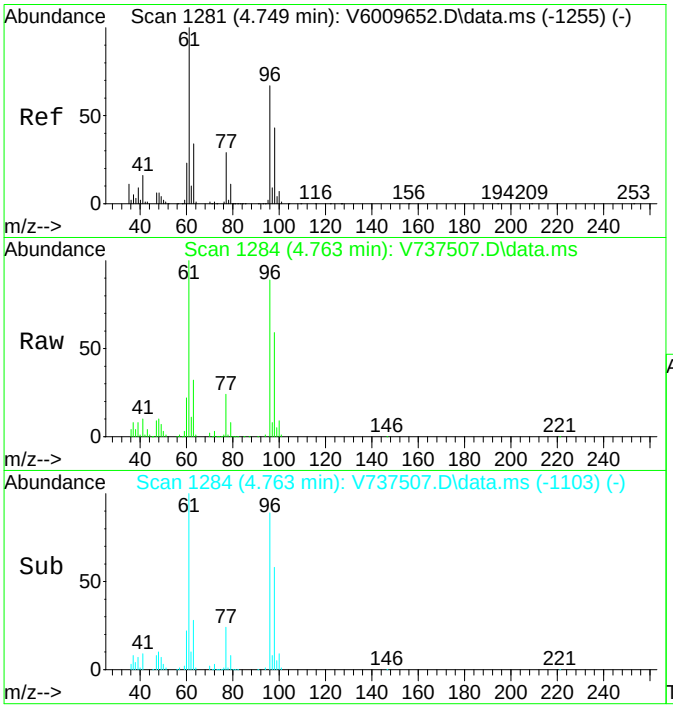


#25
Ethyl-tert-Butyl ether (ETBE)
Concen: 11.53 ppb
RT: 4.532 min Scan# 1201
Delta R.T. -0.005 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 59 Resp: 297657

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
87	51.0	17.0	51.0#
57	0.0	0.0	0.0

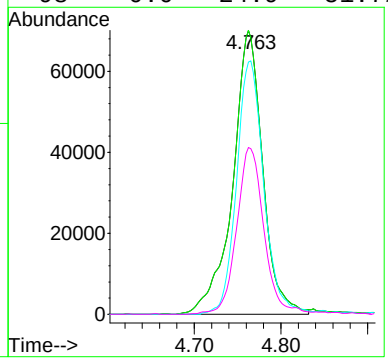


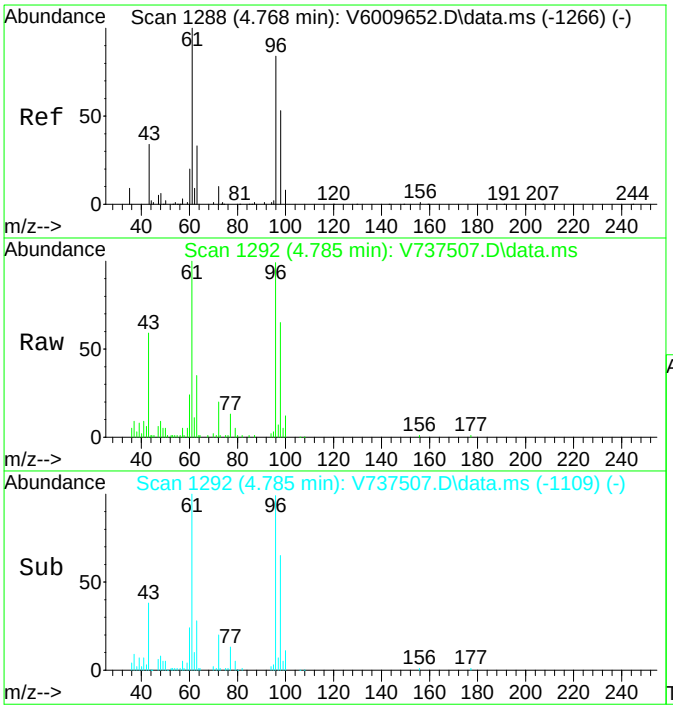


#26
cis-1,2-Dichloroethylene
Concen: 11.06 ppb
RT: 4.763 min Scan# 1284
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 61 Resp: 169112

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	37.8	78.4#
98	0.0	24.9	51.7#

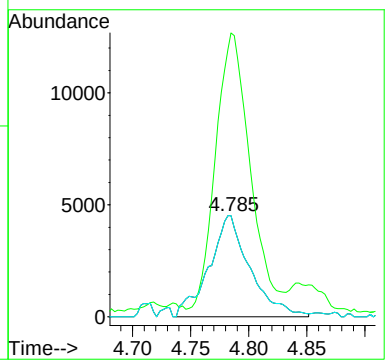


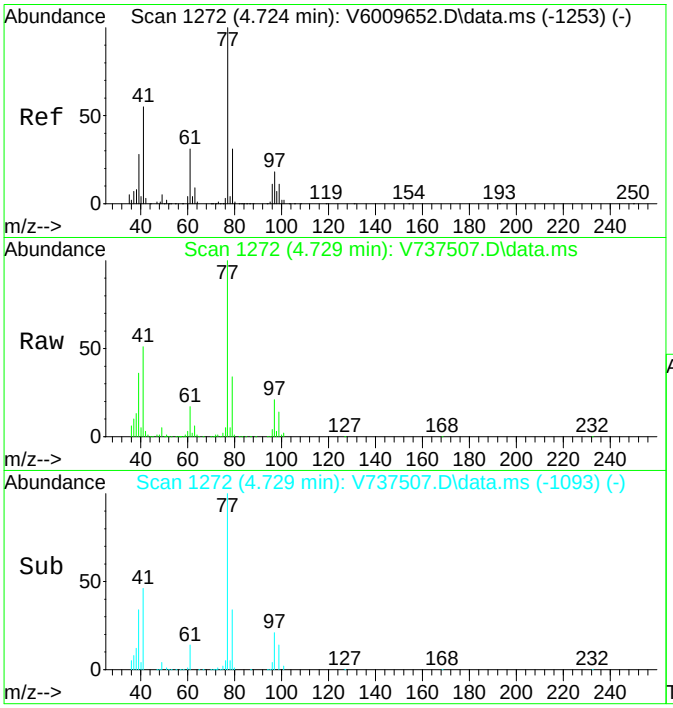


#27
2-Butanone
Concen: 11.64 ppb
RT: 4.785 min Scan# 1292
Delta R.T. 0.009 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 72 Resp: 11038

Ion	Ratio	Lower	Upper
72	100		
43	230.3	0.0	0.0#
72	100.0	50.0	150.0

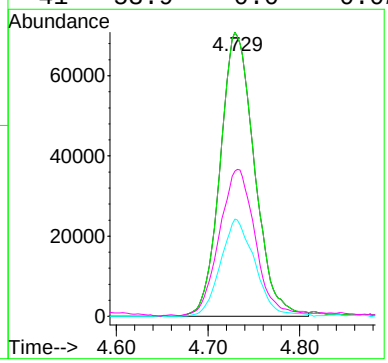


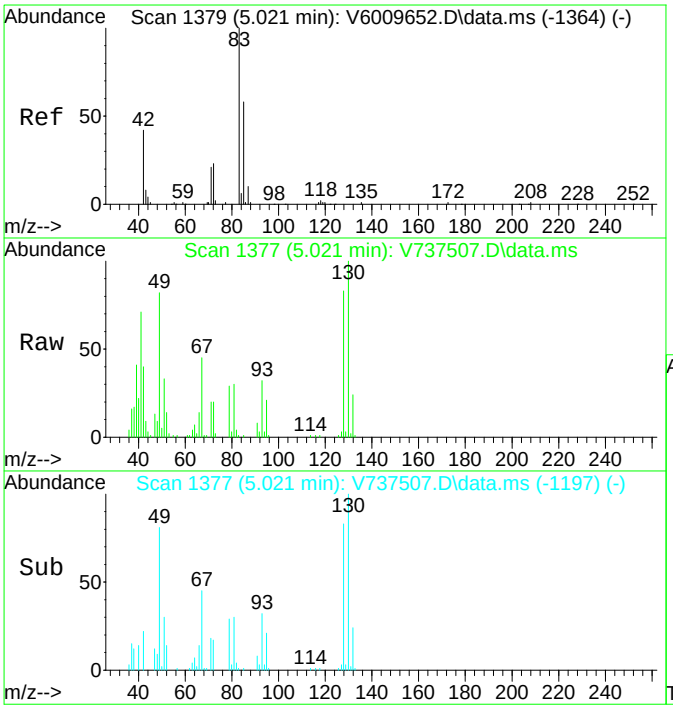


#28
2,2-Dichloropropane
Concen: 11.51 ppb
RT: 4.729 min Scan# 1272
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 77 Resp: 183971

Ion	Ratio	Lower	Upper
77	100		
77	100.0	80.0	120.0
79	34.4	20.9	43.5
41	53.9	0.0	0.0#

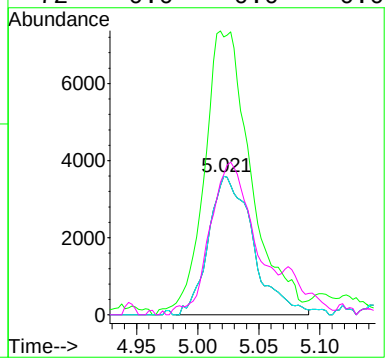


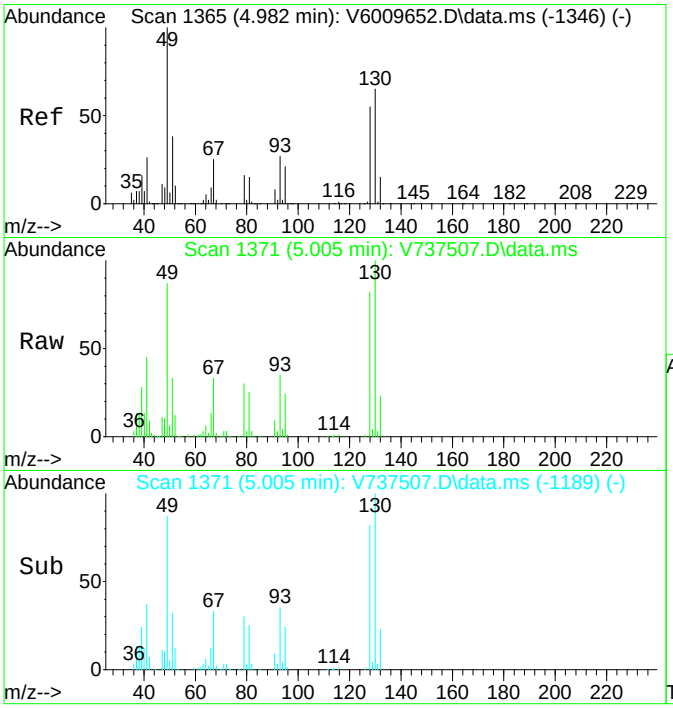


#29
Tetrahydrofuran
Concen: 9.97 ppb
RT: 5.021 min Scan# 1377
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 71 Resp: 9094

Ion	Ratio	Lower	Upper
71	100		
42	215.3	279.2	418.8#
71	100.0	50.0	150.0
72	0.0	0.0	0.0

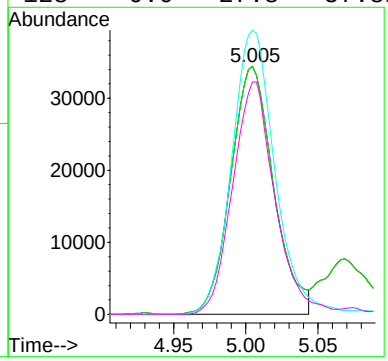


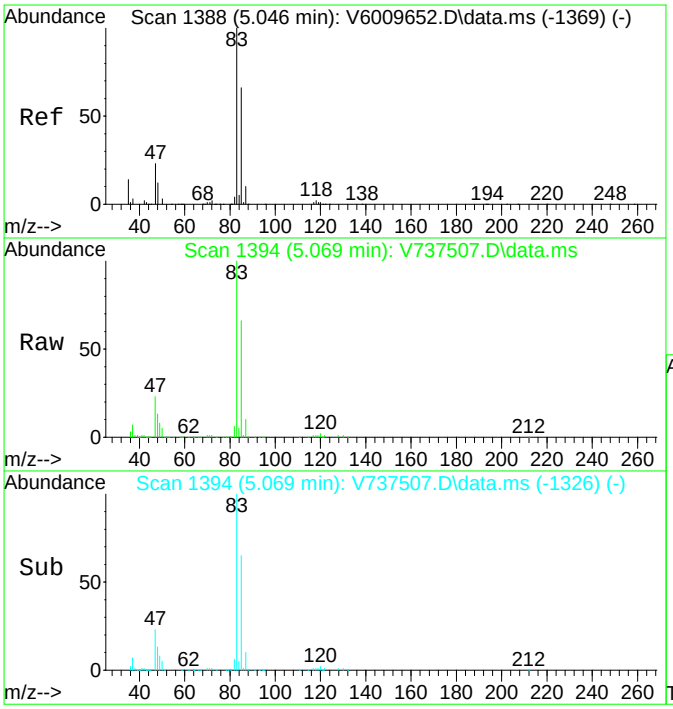


#30
Bromochloromethane
Concen: 10.41 ppb
RT: 5.005 min Scan# 1371
Delta R.T. 0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 49 Resp: 70960

Ion	Ratio	Lower	Upper
49	100		
49	100.0	65.0	135.0
130	0.0	35.7	74.1#
128	0.0	27.8	57.8#

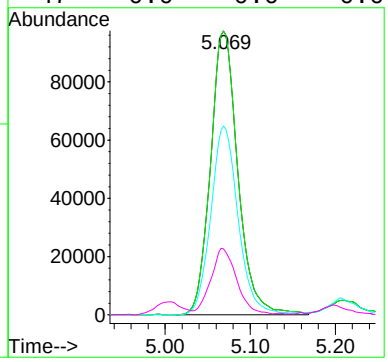


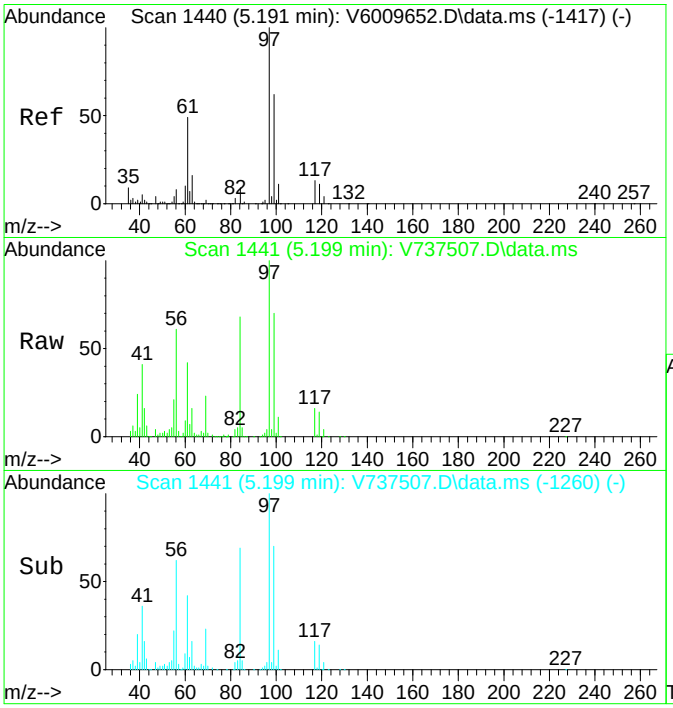


#31
Chloroform
Concen: 10.69 ppb
RT: 5.069 min Scan# 1394
Delta R.T. -0.011 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 83 Resp: 218421

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	66.1	41.8	86.8
47	0.0	0.0	0.0

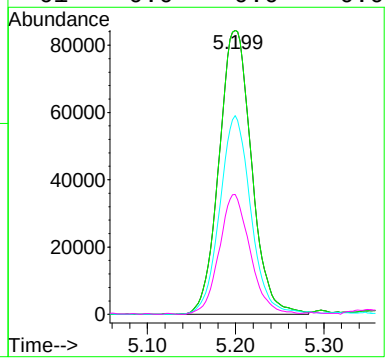


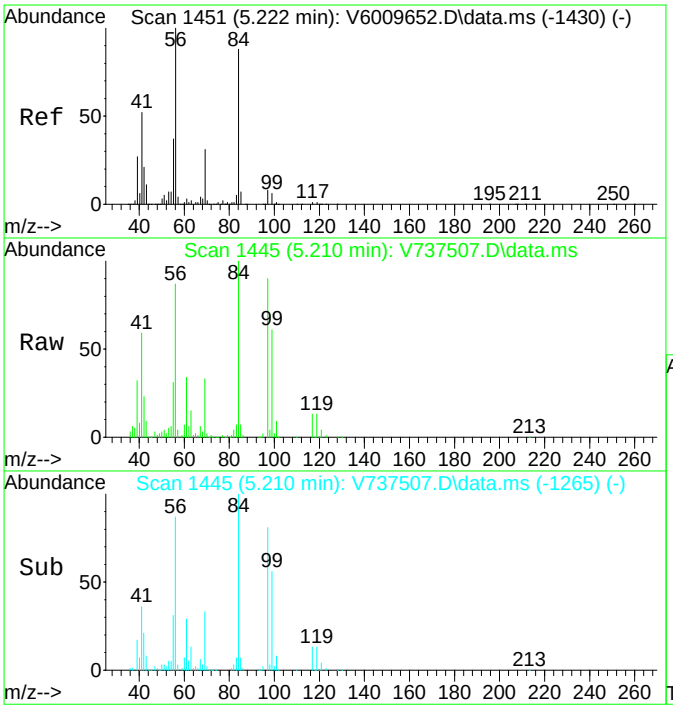


#32
1,1,1-Trichloroethane
Concen: 11.52 ppb
RT: 5.199 min Scan# 1441
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 97 Resp: 216738

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	66.9	42.3	87.9
61	0.0	0.0	0.0

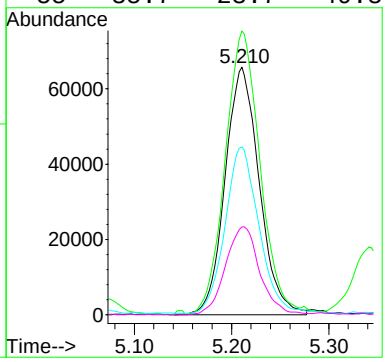


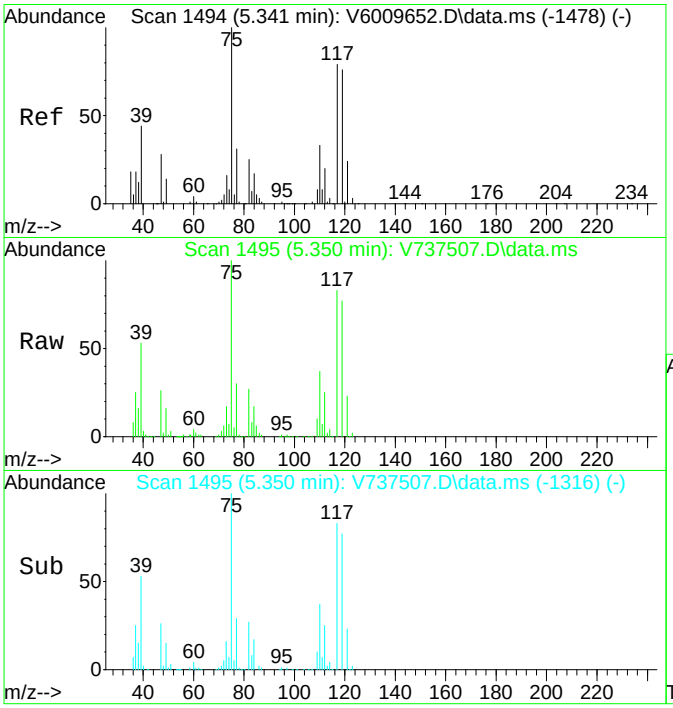


#33
Cyclohexane
Concen: 11.41 ppb
RT: 5.210 min Scan# 1445
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 56 Resp: 161742

Ion	Ratio	Lower	Upper
56	100		
84	114.9	44.2	91.8#
41	66.7	37.9	78.7
55	35.7	23.7	49.3

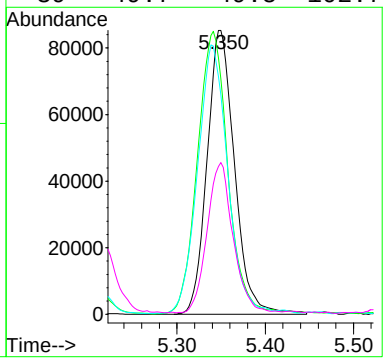


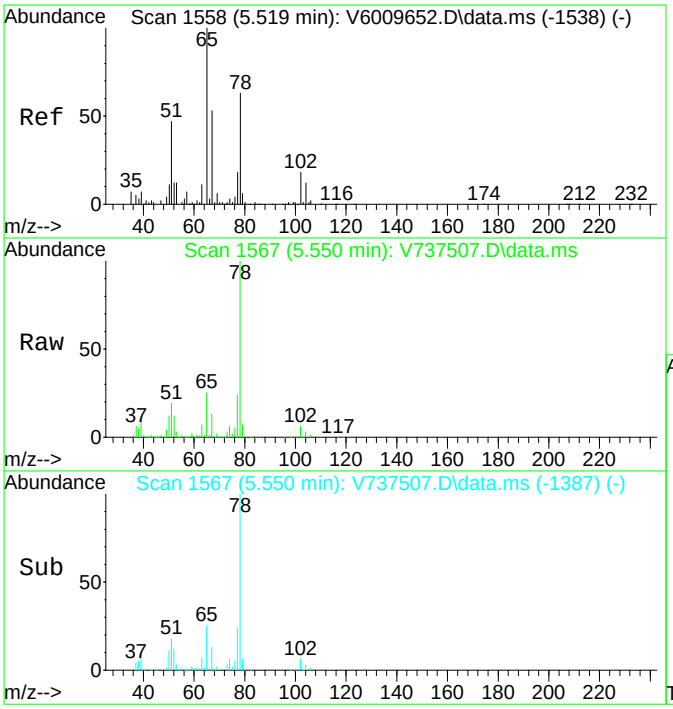


#34
1,1-Dichloropropylene
Concen: 11.14 ppb
RT: 5.350 min Scan# 1495
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 75 Resp: 184740

Ion	Ratio	Lower	Upper
75	100		
117	109.5	65.3	135.5
119	102.9	62.6	130.0
39	49.7	49.5	102.7

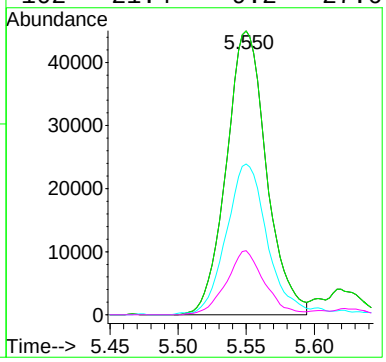


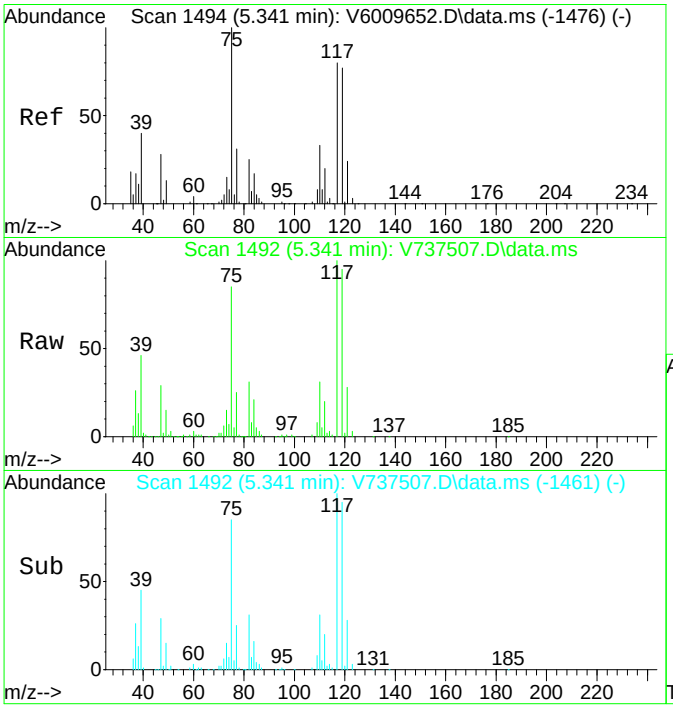


#35
d4-1,2-Dichloroethane (SURR)
Concen: 10.24 ppb
RT: 5.550 min Scan# 1567
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 65 Resp: 92273

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	54.0	33.0	68.6
102	21.4	9.2	27.6

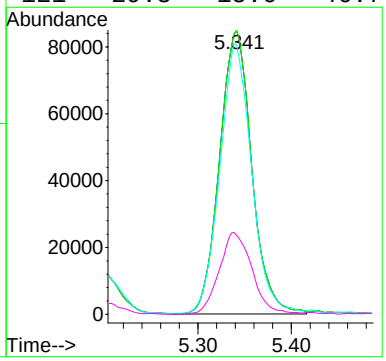


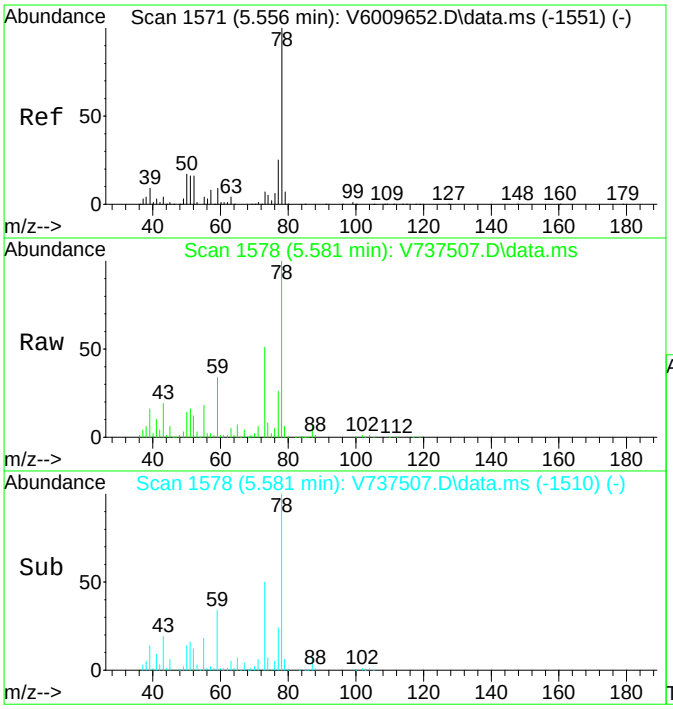


#36
Carbon Tetrachloride
Concen: 10.74 ppb
RT: 5.341 min Scan# 1492
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:117 Resp: 202370

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	93.9	62.3	129.5
121	29.5	15.6	46.7

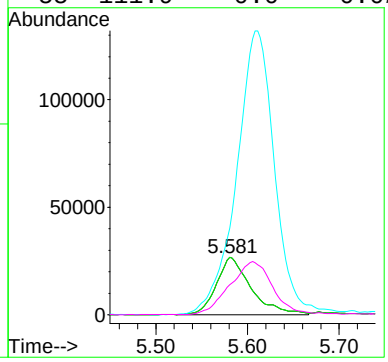


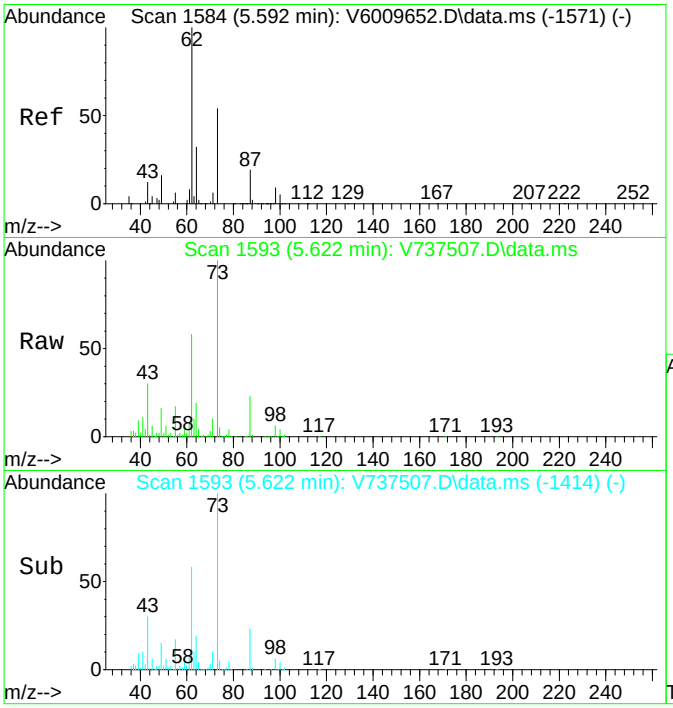


#37
tert-Amyl alcohol (TAA)
Concen: 107.24 ppb
RT: 5.581 min Scan# 1578
Delta R.T. -0.011 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 59 Resp: 70682

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
73	541.3	22.9	68.5#
55	111.9	0.0	0.0#

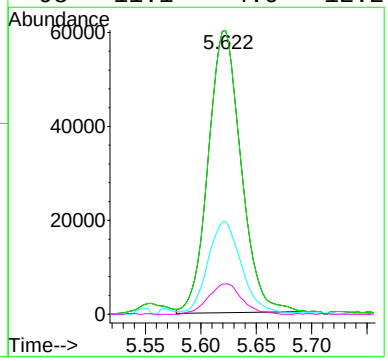


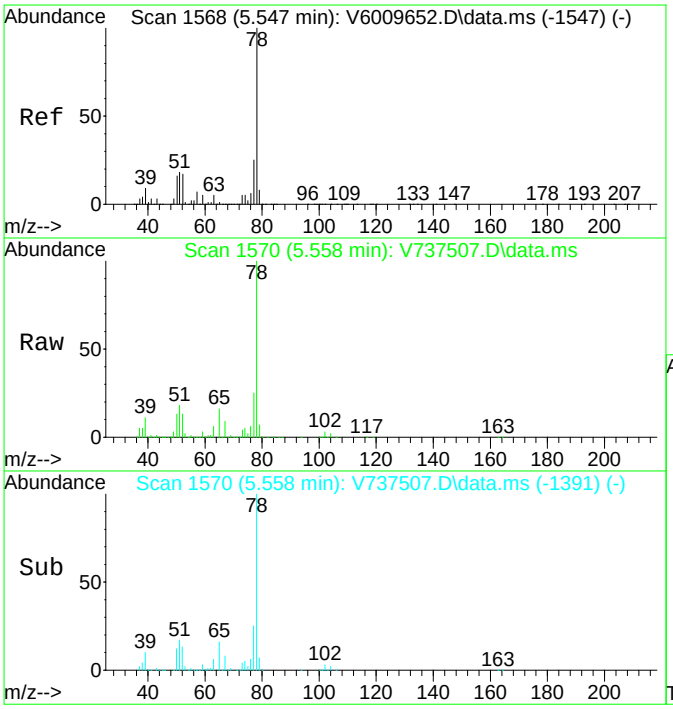


#38
1,2-Dichloroethane
Concen: 10.75 ppb
RT: 5.622 min Scan# 1593
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 62 Resp: 123870

Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	33.2	15.2	45.6
98	11.1	4.0	12.2

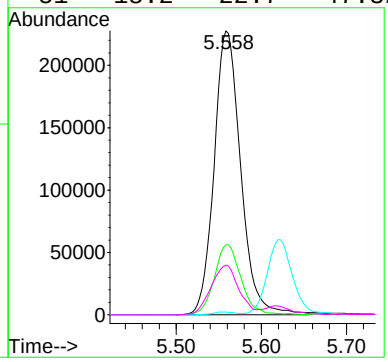


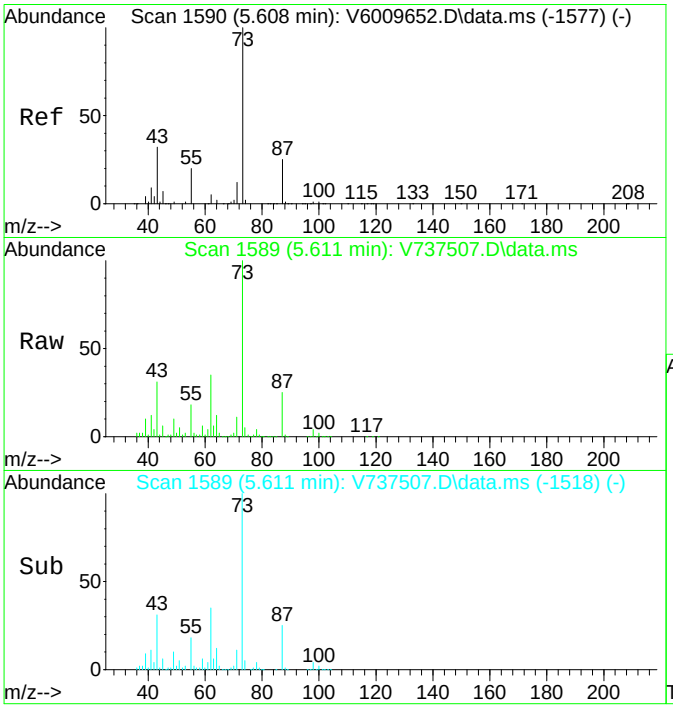


#39
Benzene
Concen: 11.01 ppb
RT: 5.558 min Scan# 1570
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 78 Resp: 494207

Ion	Ratio	Lower	Upper
78	100		
77	24.7	14.7	30.5
62	0.9	19.2	39.8#
51	18.2	22.7	47.3#

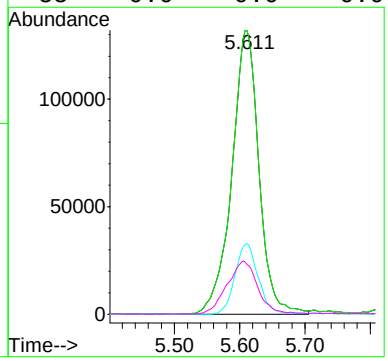


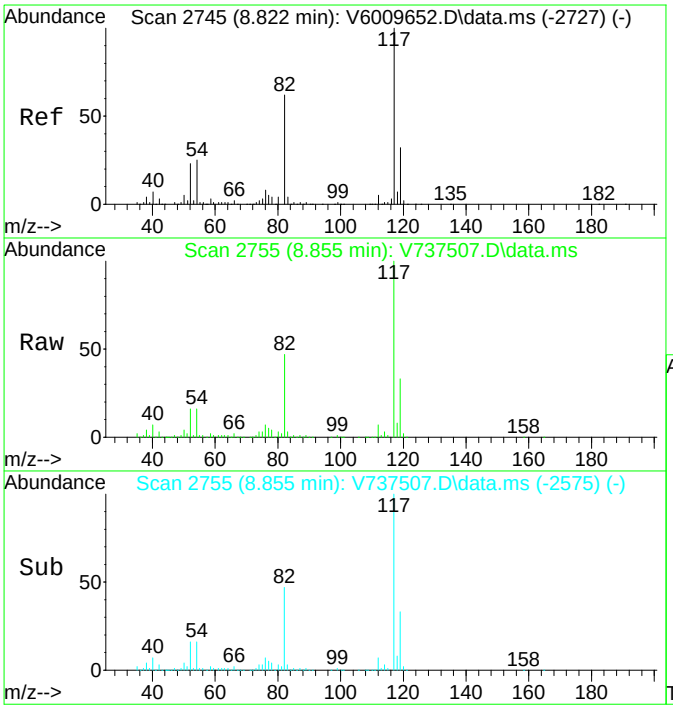


#40
tert-Amyl methyl ether (TAME)
Concen: 11.47 ppb
RT: 5.611 min Scan# 1589
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 73 Resp: 382575

Ion	Ratio	Lower	Upper
73	100		
73	100.0	79.6	119.4
87	21.5	11.9	35.5
55	0.0	0.0	0.0

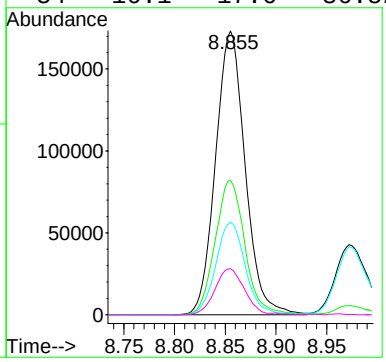


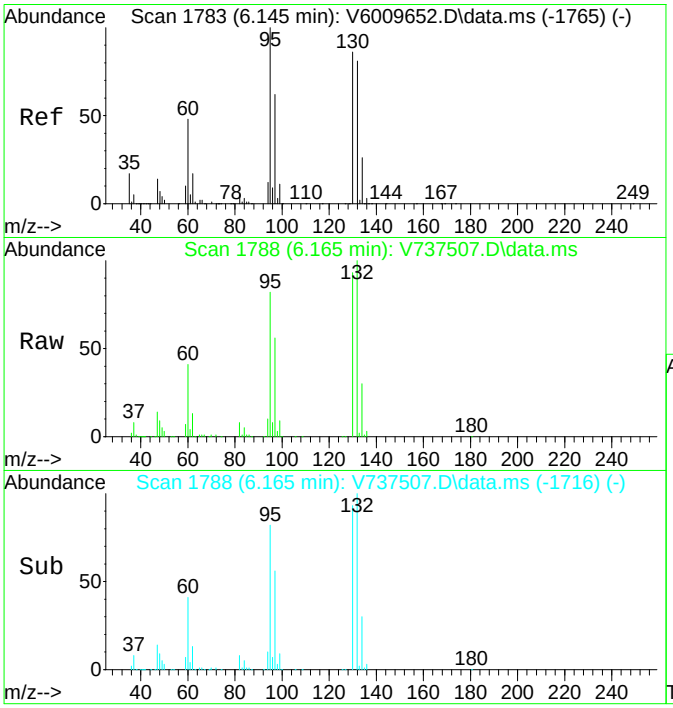


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:117 Resp: 352074

Ion	Ratio	Lower	Upper
117	100		
82	47.6	35.9	74.7
119	32.6	20.8	43.2
54	16.1	17.6	36.5#

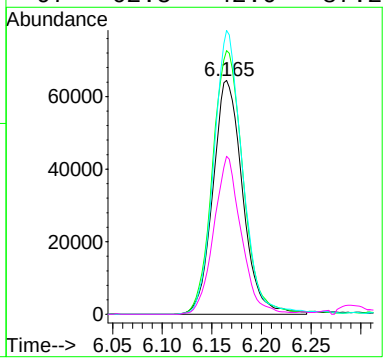


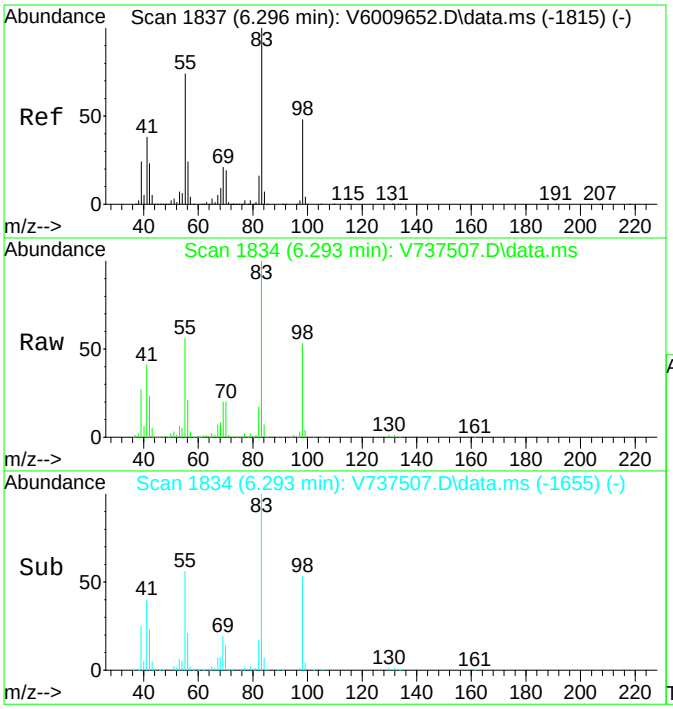


#42
Trichloroethylene
Concen: 10.66 ppb
RT: 6.165 min Scan# 1788
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 95 Resp: 134107

Ion	Ratio	Lower	Upper
95	100		
130	115.7	61.1	126.9
132	117.1	62.0	128.8
97	62.5	42.0	87.2

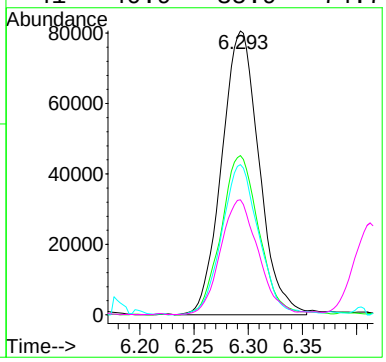


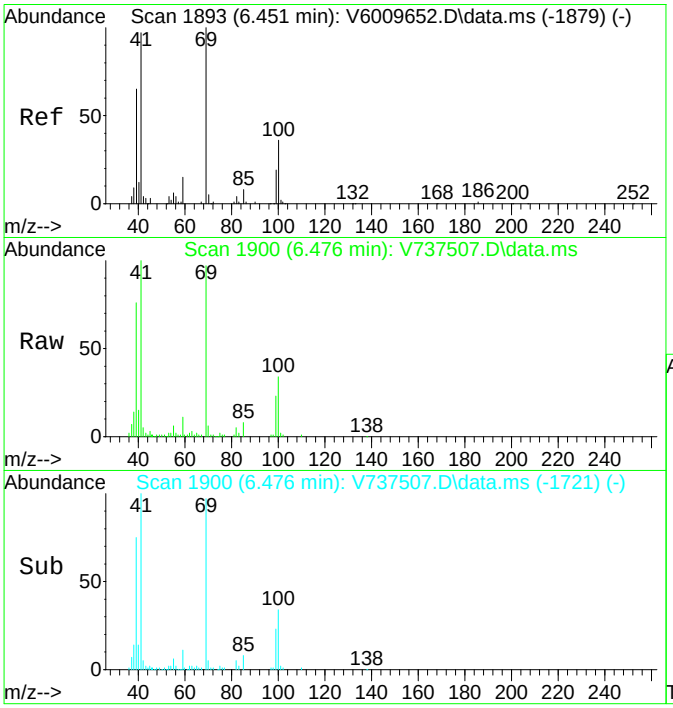


#43
Methyl Cyclohexane
Concen: 11.16 ppb
RT: 6.293 min Scan# 1834
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 83 Resp: 193695

Ion	Ratio	Lower	Upper
83	100		
55	57.0	65.5	136.1#
98	52.7	31.0	64.4
41	40.9	35.9	74.7

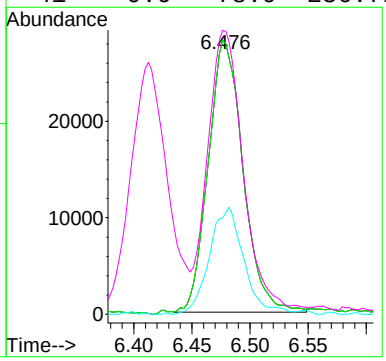


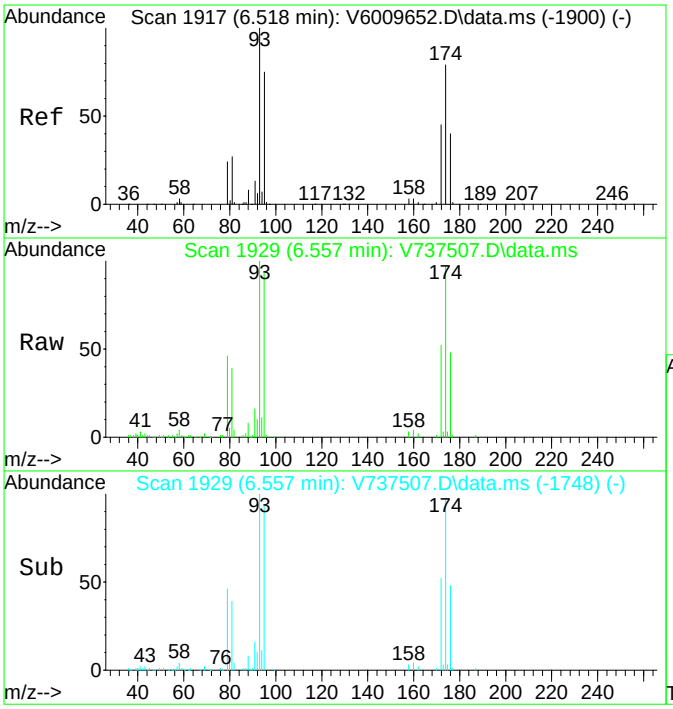


#44
Methyl Methacrylate
Concen: 10.56 ppb
RT: 6.476 min Scan# 1900
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 69 Resp: 58584

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	38.9	0.0	0.0#
41	0.0	78.9	236.7#

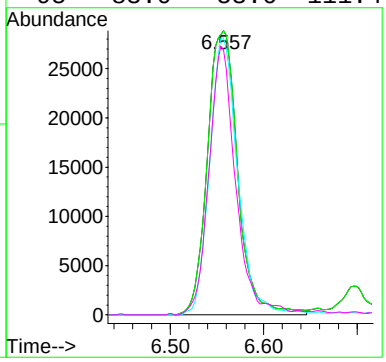


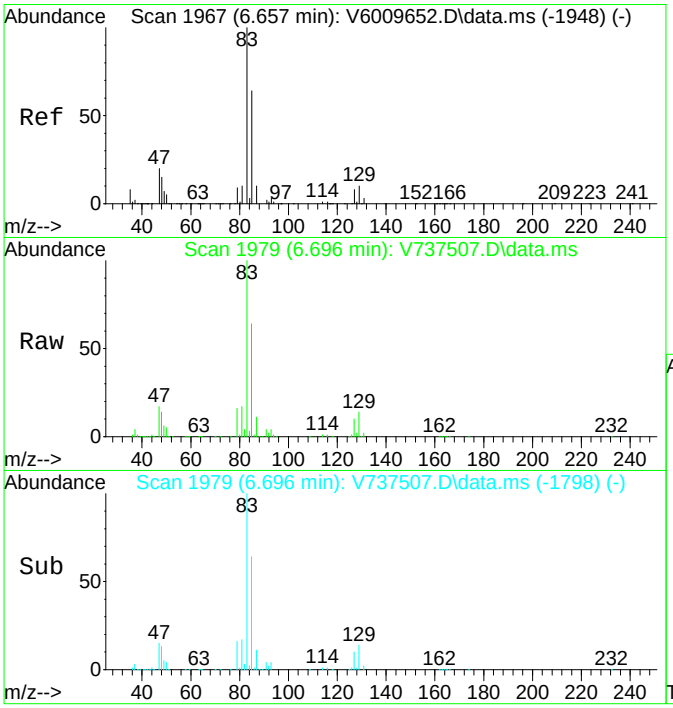


#45
Dibromomethane
Concen: 10.11 ppb
RT: 6.557 min Scan# 1929
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 93 Resp: 65267

Ion	Ratio	Lower	Upper
93	100		
93	100.0	65.0	135.0
174	89.6	60.5	125.6
95	83.0	53.6	111.4

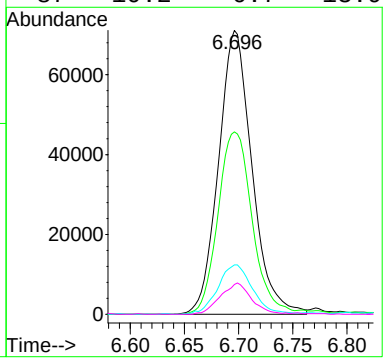


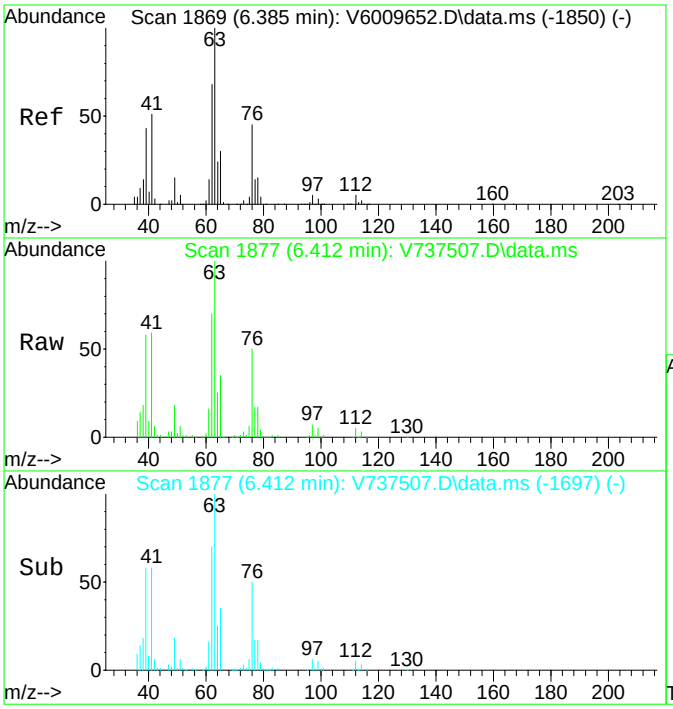


#46
Bromodichloromethane
Concen: 10.68 ppb
RT: 6.696 min Scan# 1979
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 83 Resp: 153011

Ion	Ratio	Lower	Upper
83	100		
85	65.5	41.0	85.0
47	18.0	15.9	33.1
87	10.2	6.7	13.9

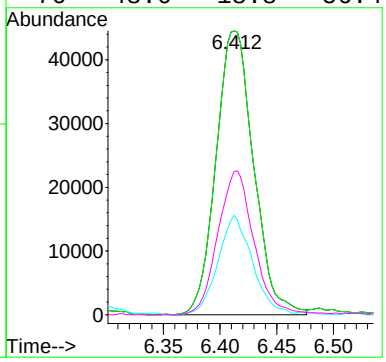


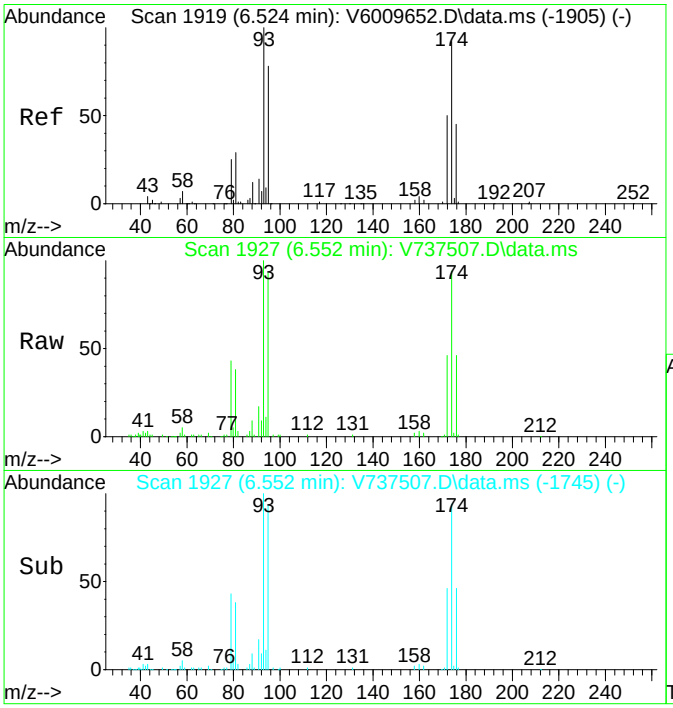


#47
1,2-Dichloropropane
Concen: 10.16 ppb
RT: 6.412 min Scan# 1877
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 63 Resp: 102940

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	32.0	14.5	43.6
76	48.6	18.8	56.4

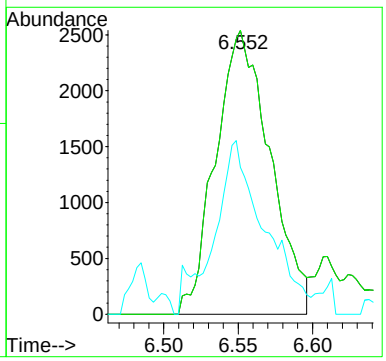


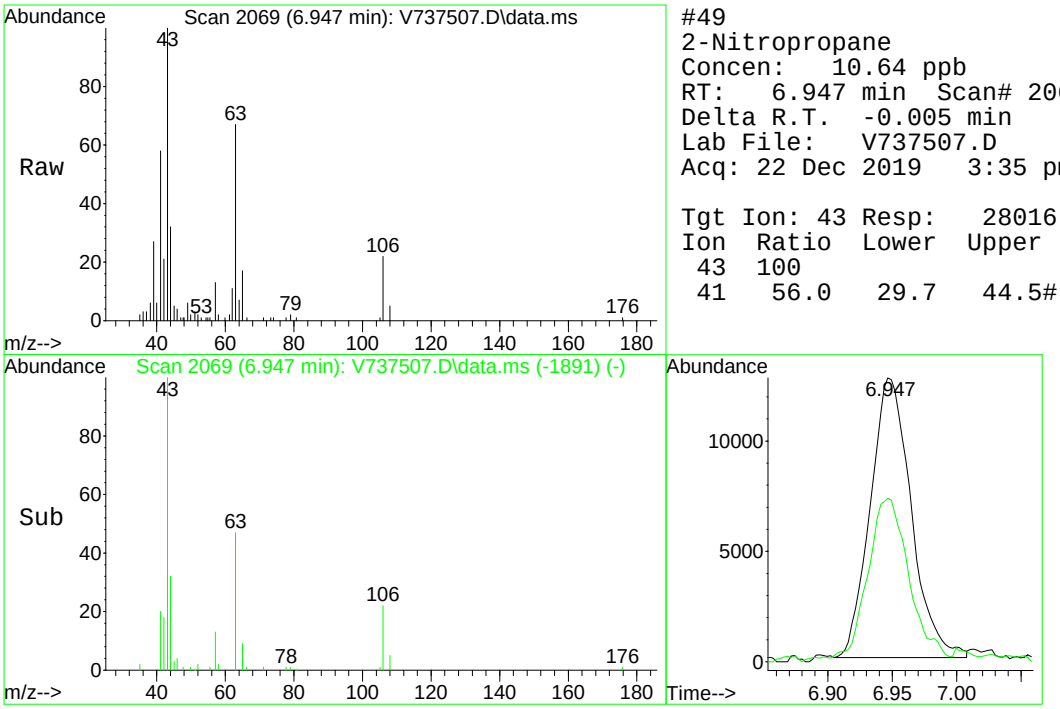


#48
1,4-Dioxane
Concen: 167.45 ppb
RT: 6.552 min Scan# 1927
Delta R.T. 0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 88 Resp: 6452

Ion	Ratio	Lower	Upper
88	100		
88	100.0	80.0	120.0
58	52.0	30.8	92.3

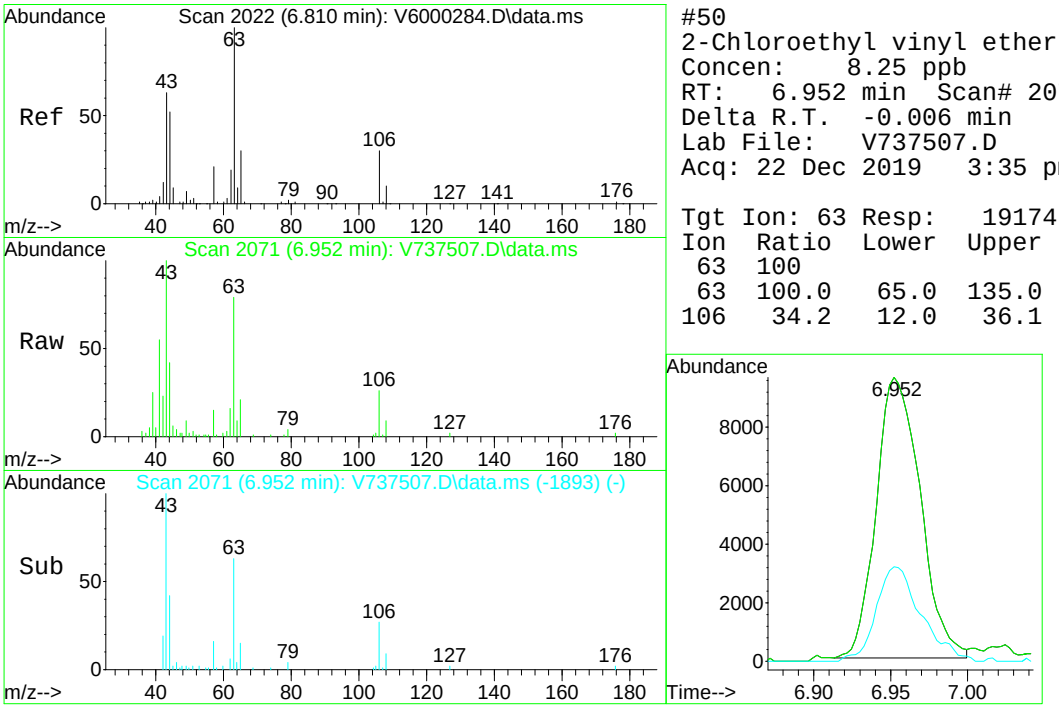




#49
2-Nitropropane
Concen: 10.64 ppb
RT: 6.947 min Scan# 2069
Delta R.T. -0.005 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 43 Resp: 28016

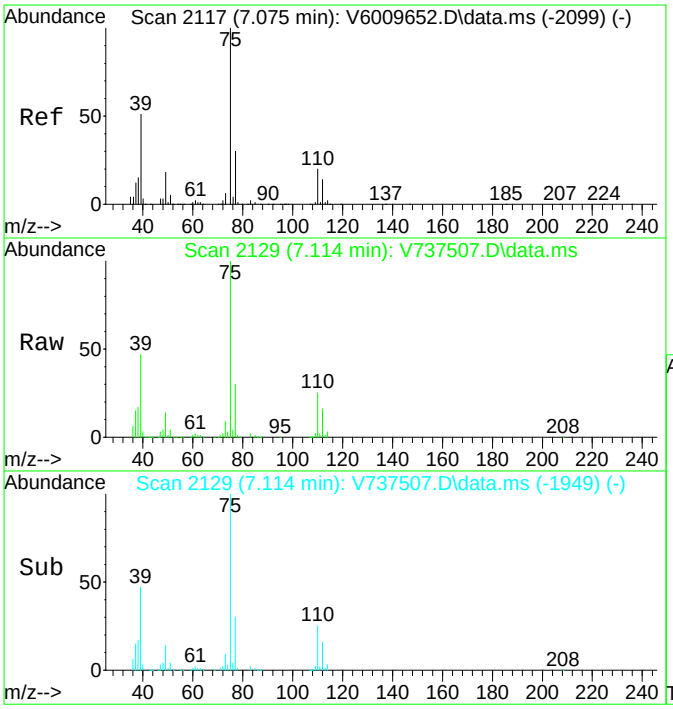
Ion	Ratio	Lower	Upper
43	100		
41	56.0	29.7	44.5#



#50
2-Chloroethyl vinyl ether
Concen: 8.25 ppb
RT: 6.952 min Scan# 2071
Delta R.T. -0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 63 Resp: 19174

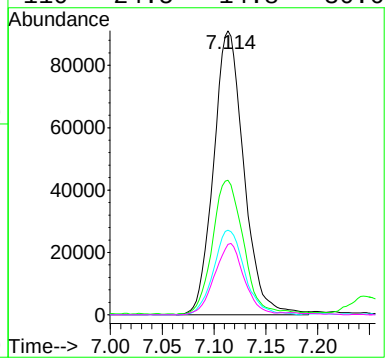
Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
106	34.2	12.0	36.1

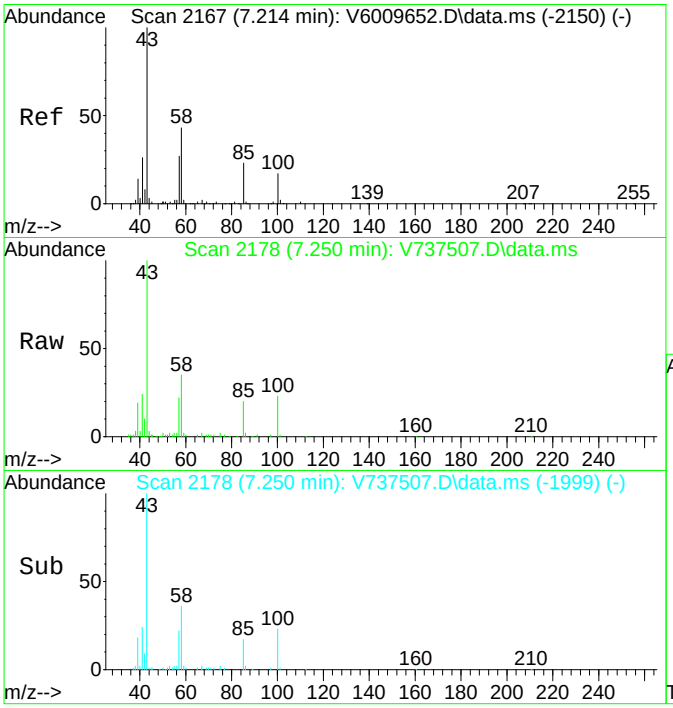


#51
cis-1,3-Dichloropropene
Concen: 11.35 ppb
RT: 7.114 min Scan# 2129
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 75 Resp: 185426

Ion	Ratio	Lower	Upper
75	100		
39	48.8	41.8	86.8
77	30.5	20.1	41.7
110	24.5	14.8	30.6

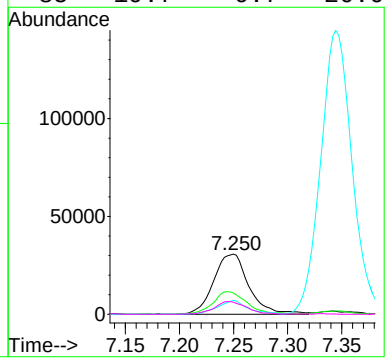


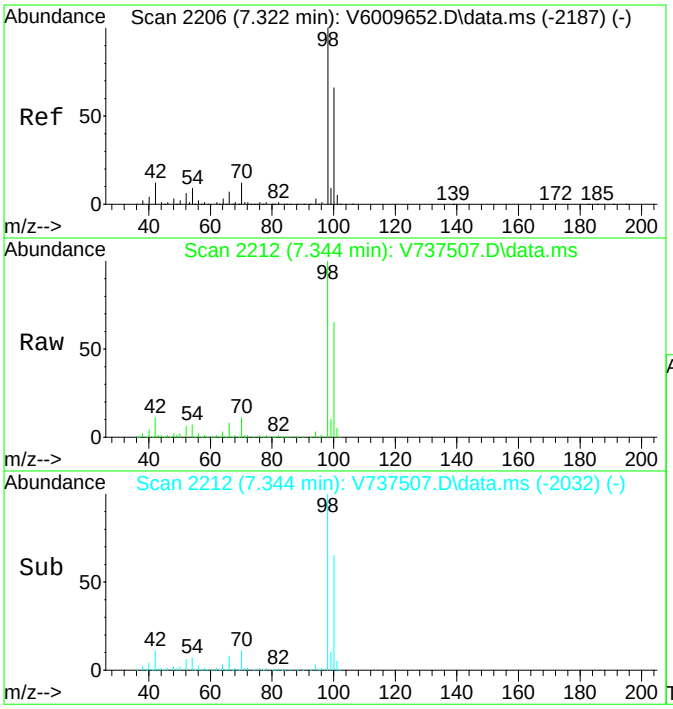


#52
4-Methyl-2-Pentanone
Concen: 11.80 ppb
RT: 7.250 min Scan# 2178
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 43 Resp: 69764

Ion	Ratio	Lower	Upper
43	100		
58	35.6	23.8	49.4
100	20.0	5.8	17.3#
85	19.7	6.7	20.0

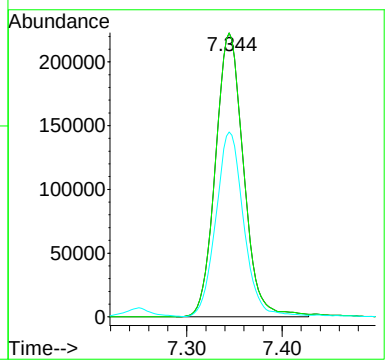


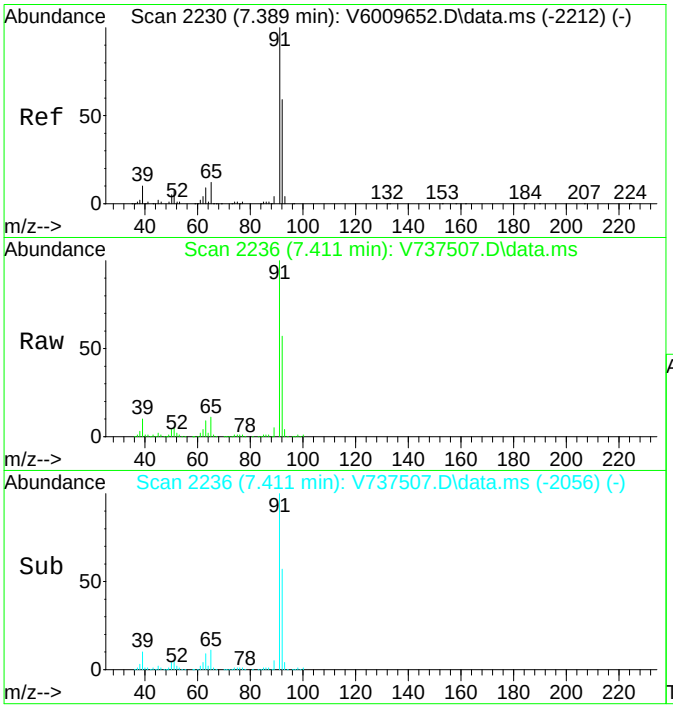


#53
Toluene-d8 (SURR)
Concen: 10.07 ppb
RT: 7.344 min Scan# 2212
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 98 Resp: 456857

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	64.2	43.4	90.2

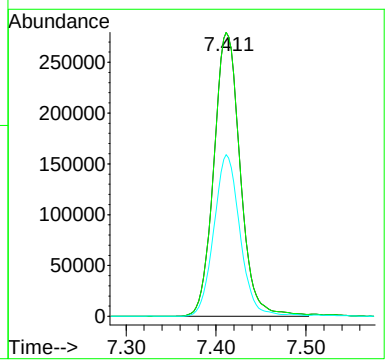


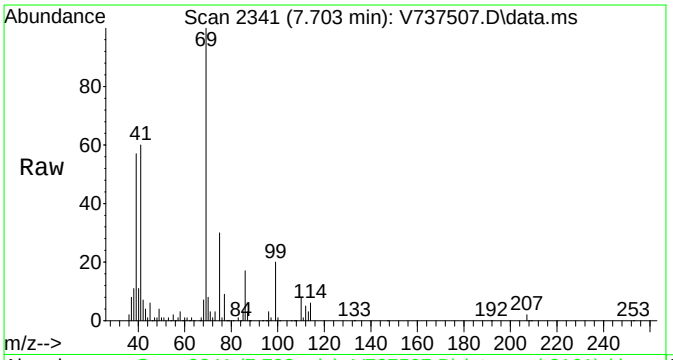


#54
Toluene
Concen: 10.96 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 569626

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	56.1	38.4	79.7

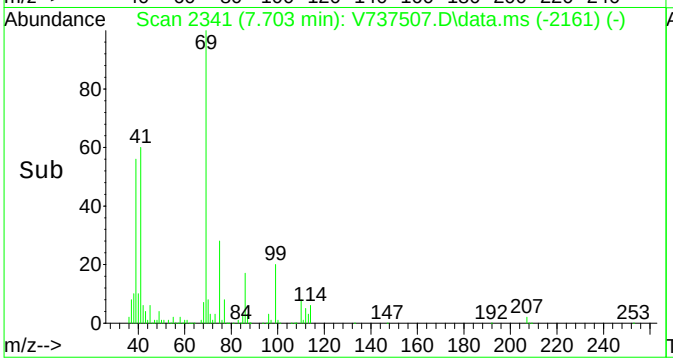


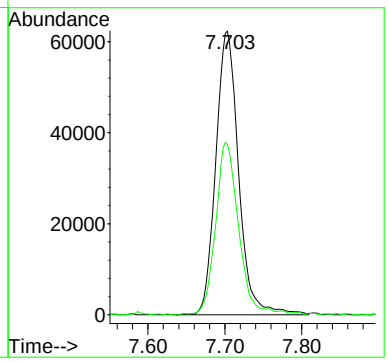


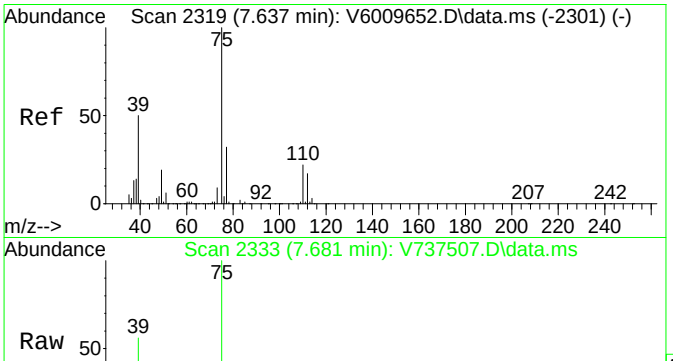
#55
Ethyl Methacrylate
Concen: 11.29 ppb
RT: 7.703 min Scan# 2341
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 69 Resp: 128964

Ion	Ratio	Lower	Upper
69	100		
41	60.7	125.7	188.5#



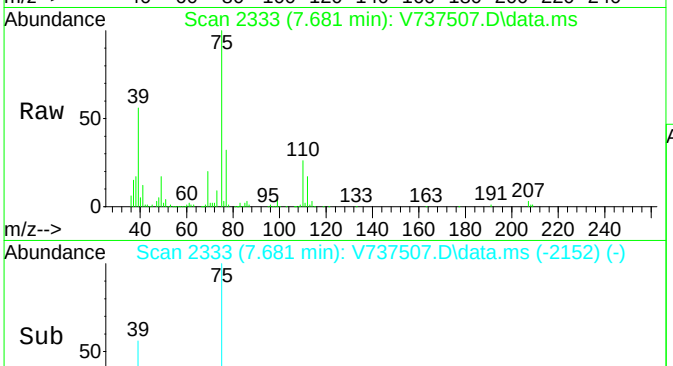


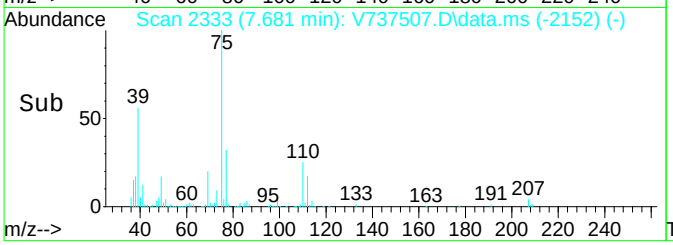


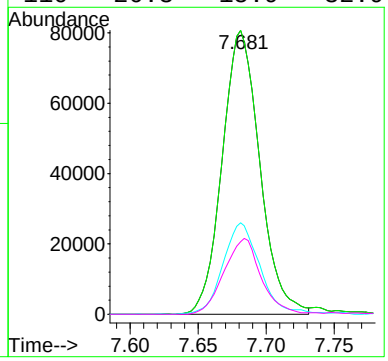
#56
trans-1,3-Dichloropropene
Concen: 11.08 ppb
RT: 7.681 min Scan# 2333
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

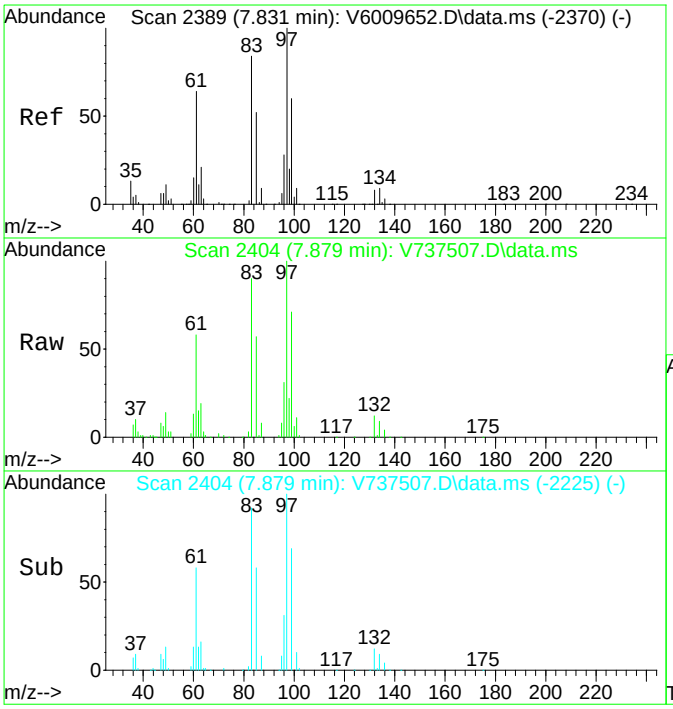
Tgt Ion: 75 Resp: 154826

Ion	Ratio	Lower	Upper
75	100		
75	100.0	65.0	135.0
77	31.8	20.3	42.3
110	26.3	15.9	32.9





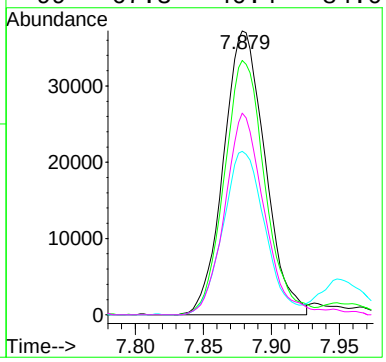


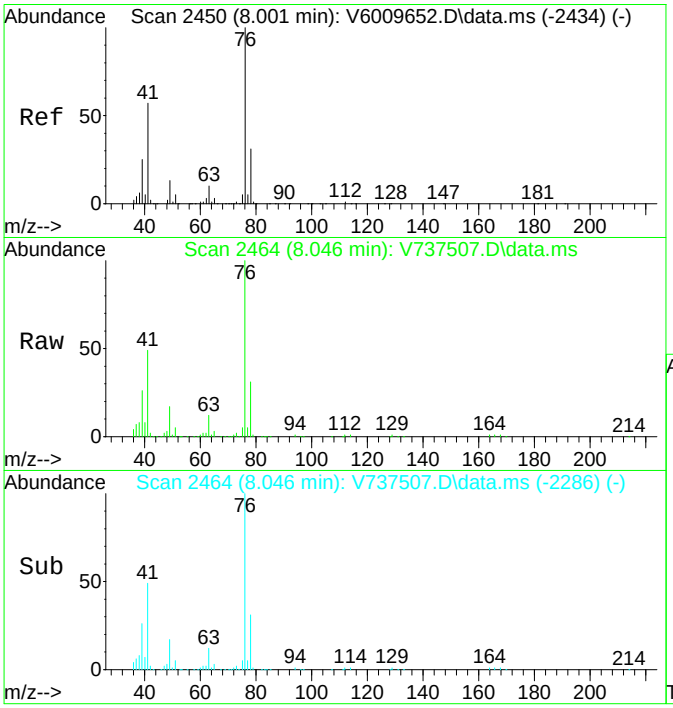


#57
1,1,2-Trichloroethane
Concen: 9.85 ppb
RT: 7.879 min Scan# 2404
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 97 Resp: 78841

Ion	Ratio	Lower	Upper
97	100		
83	87.7	54.1	112.5
61	57.8	44.3	91.9
99	67.3	40.4	84.0

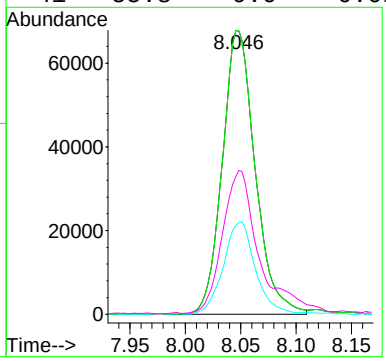


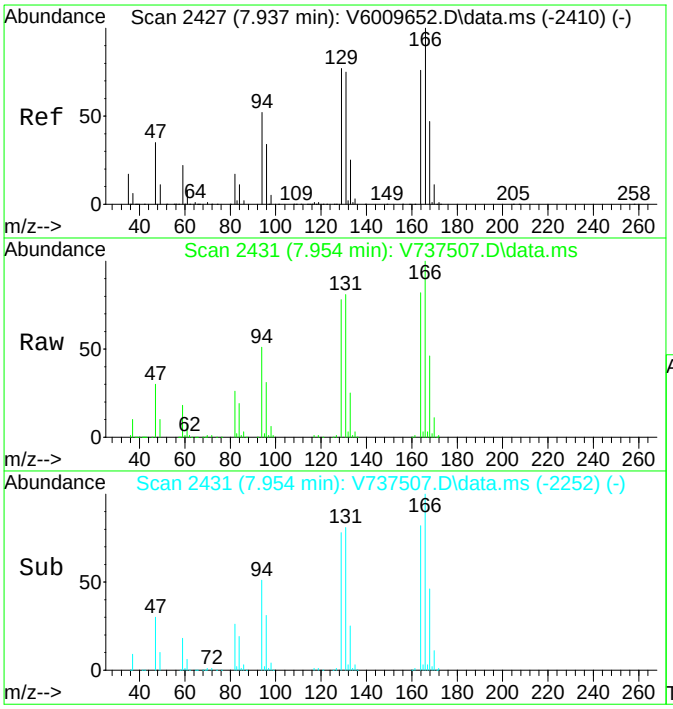


#58
1,3-Dichloropropane
Concen: 10.38 ppb
RT: 8.046 min Scan# 2464
Delta R.T. -0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 76 Resp: 139823

Ion	Ratio	Lower	Upper
76	100		
76	100.0	80.0	120.0
78	31.7	16.4	49.2
41	55.8	0.0	0.0#

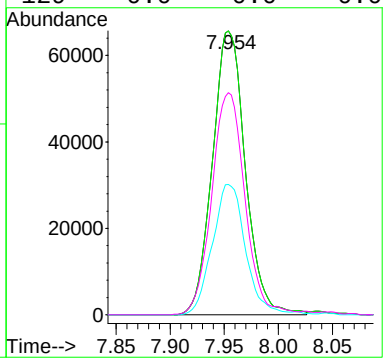


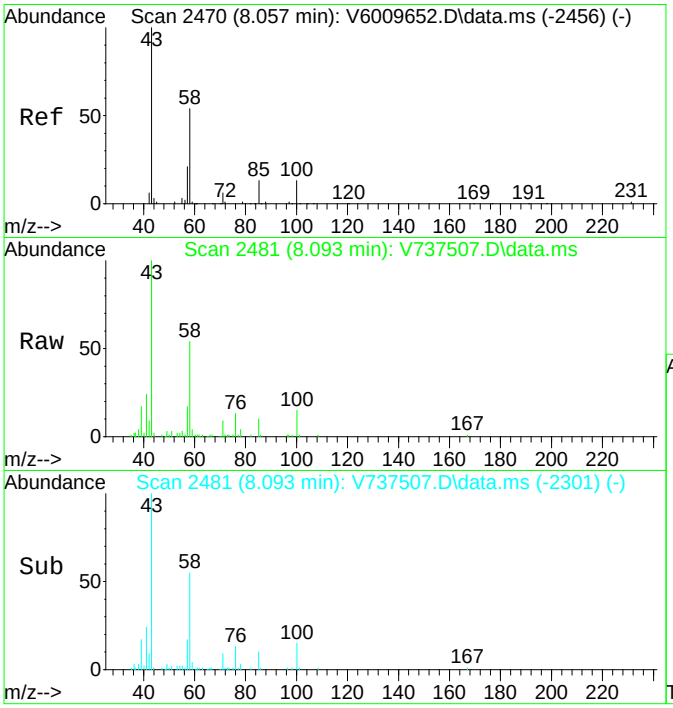


#59
Tetrachloroethylene
Concen: 9.09 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:166 Resp: 139446

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	46.0	0.0	0.0#
129	0.0	0.0	0.0

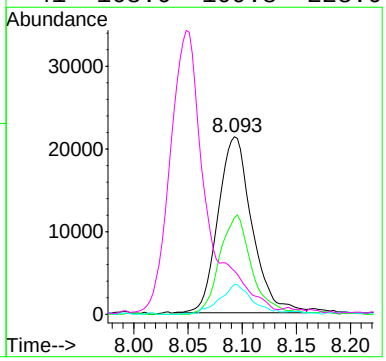


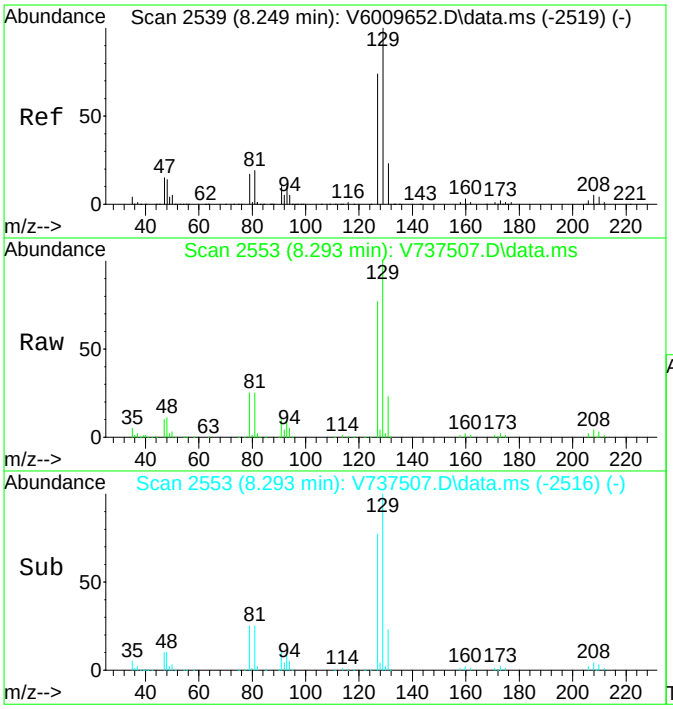


#60
2-Hexanone
Concen: 10.97 ppb
RT: 8.093 min Scan# 2481
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 43 Resp: 46440

Ion	Ratio	Lower	Upper
43	100		
58	52.6	33.0	68.6
57	16.6	11.1	23.1
41	168.0	109.8	228.0

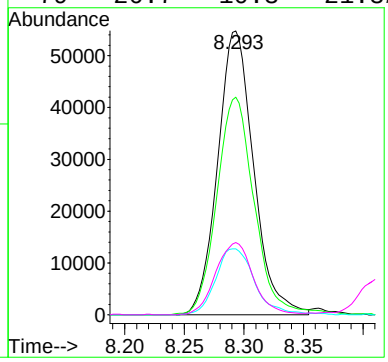


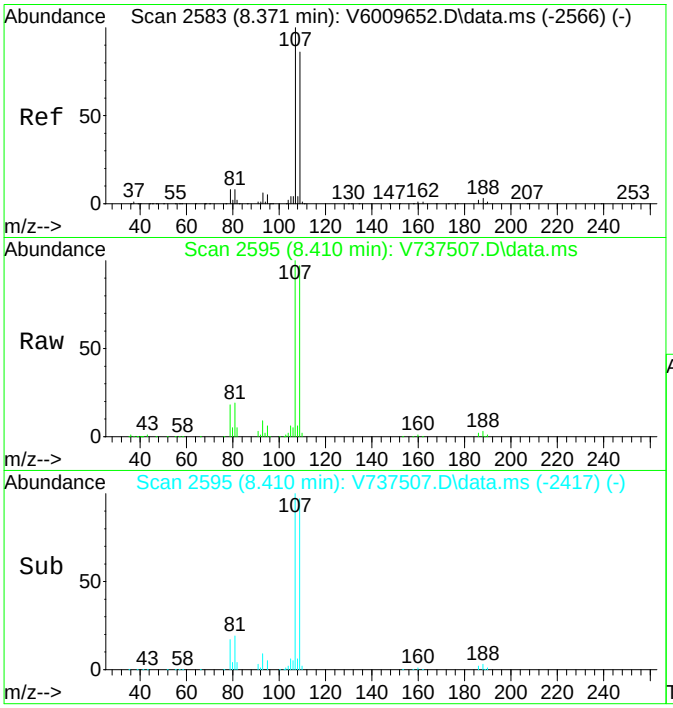


#61
Dibromochloromethane
Concen: 11.15 ppb
RT: 8.293 min Scan# 2553
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:129 Resp: 115292

Ion	Ratio	Lower	Upper
129	100		
127	80.0	49.8	103.4
131	25.1	16.1	33.5
79	26.7	10.3	21.3#

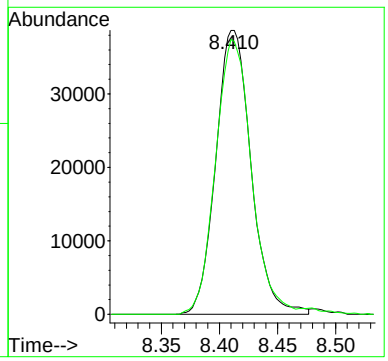


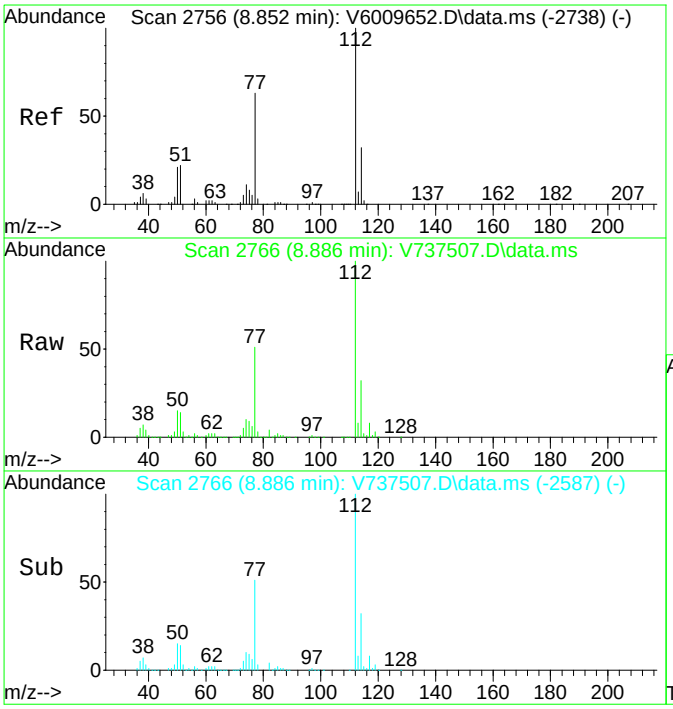


#62
1,2-Dibromoethane
Concen: 10.03 ppb
RT: 8.410 min Scan# 2595
Delta R.T. -0.005 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:107 Resp: 81707

Ion	Ratio	Lower	Upper
107	100		
109	98.2	62.0	128.8

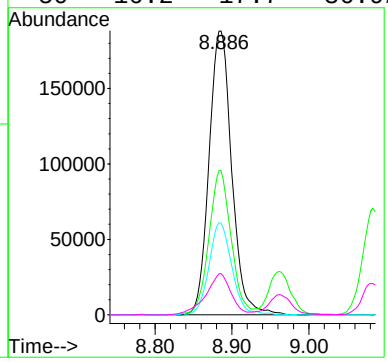


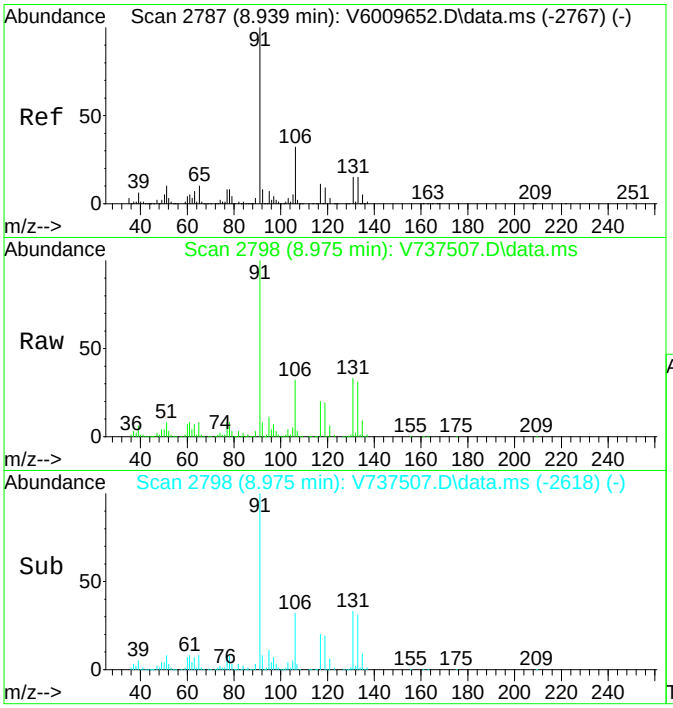


#63
Chlorobenzene
Concen: 10.44 ppb
RT: 8.886 min Scan# 2766
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:112 Resp: 386330

Ion	Ratio	Lower	Upper
112	100		
77	49.8	38.9	80.7
114	31.8	20.5	42.7
50	16.2	17.7	36.9#

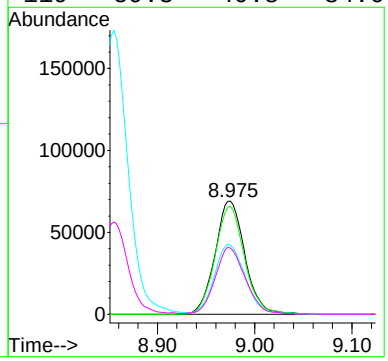


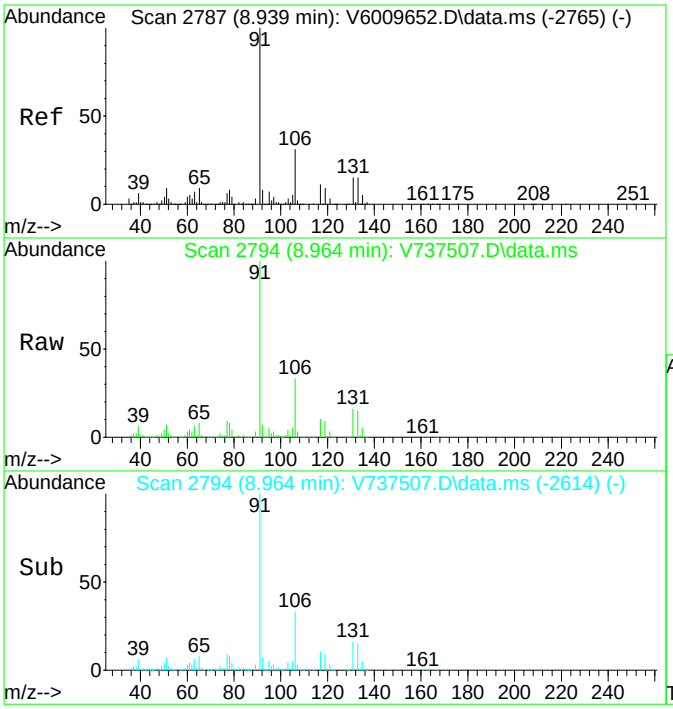


#64
1,1,1,2-tetrachloroethane
Concen: 10.72 ppb
RT: 8.975 min Scan# 2798
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:131 Resp: 148472

Ion	Ratio	Lower	Upper
131	100		
133	93.8	61.5	127.7
117	63.4	42.6	88.6
119	59.3	40.8	84.6

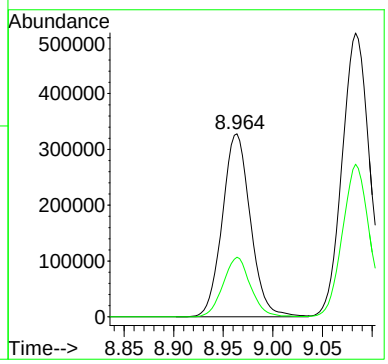


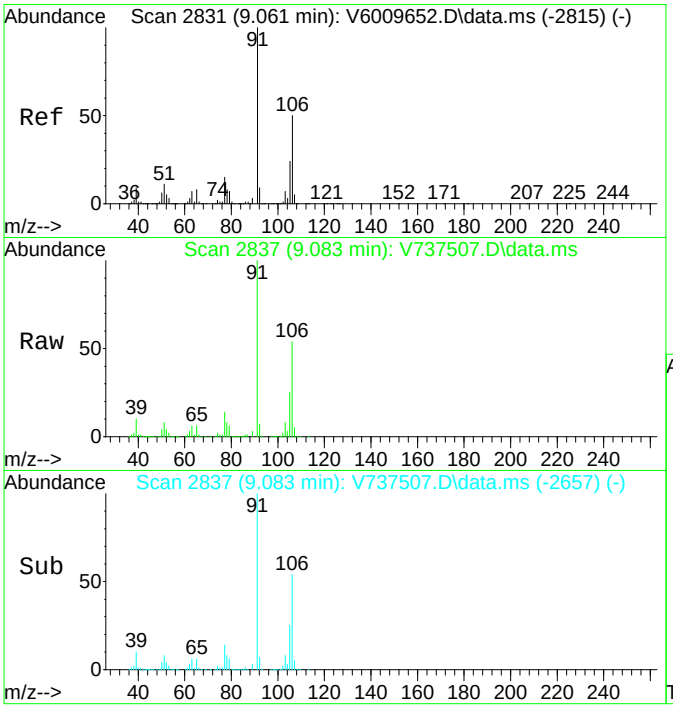


#65
Ethyl Benzene
Concen: 10.89 ppb
RT: 8.964 min Scan# 2794
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 646833

Ion	Ratio	Lower	Upper
91	100		
106	31.8	20.0	41.6

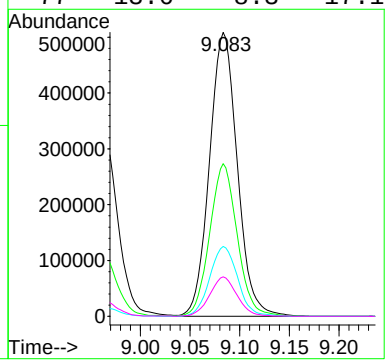


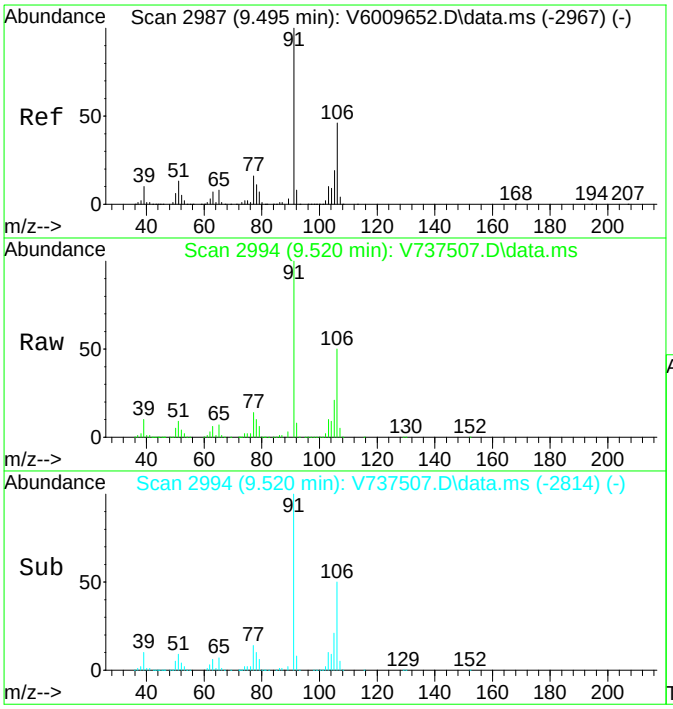


#66
p- & m-Xylenes
Concen: 21.41 ppb
RT: 9.083 min Scan# 2837
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 993165

Ion	Ratio	Lower	Upper
91	100		
106	53.2	31.3	65.1
105	24.8	14.2	29.4
77	13.6	8.3	17.1

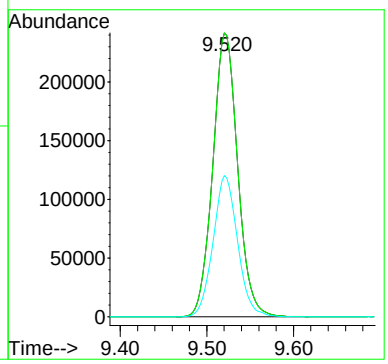


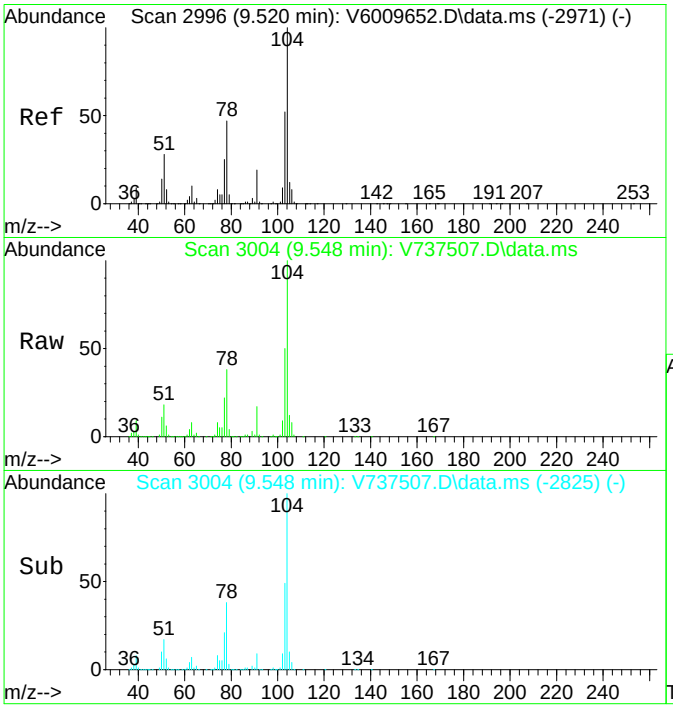


#67
o-Xylene
Concen: 10.87 ppb
RT: 9.520 min Scan# 2994
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 482532

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	49.0	22.7	68.1

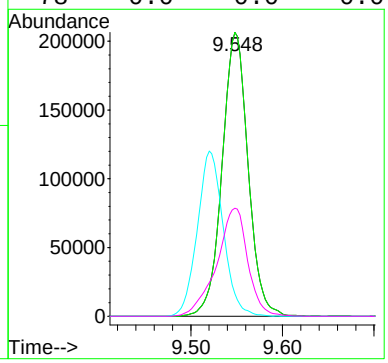


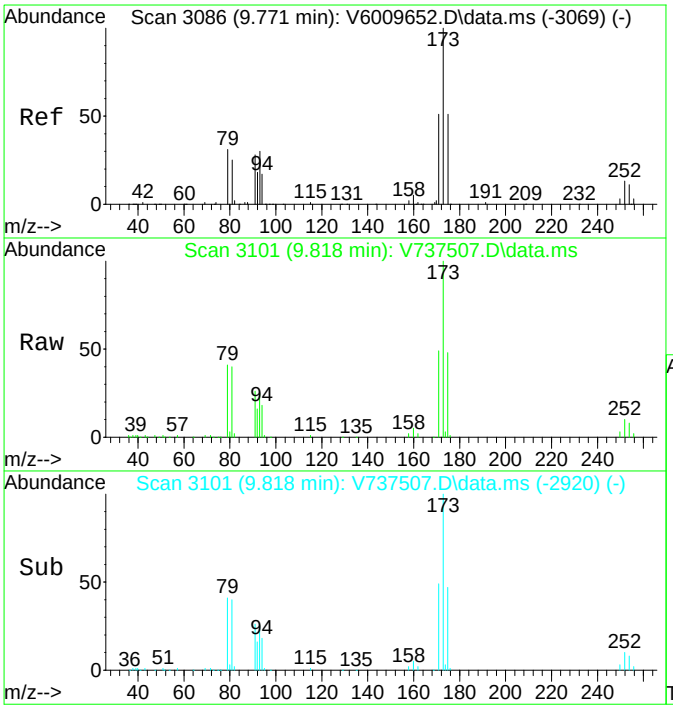


#68
Styrene
Concen: 10.80 ppb
RT: 9.548 min Scan# 3004
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:104 Resp: 407247

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
106	0.0	0.0	0.0
78	0.0	0.0	0.0

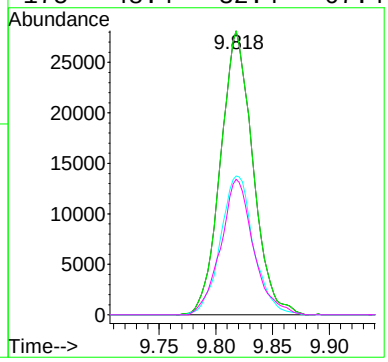


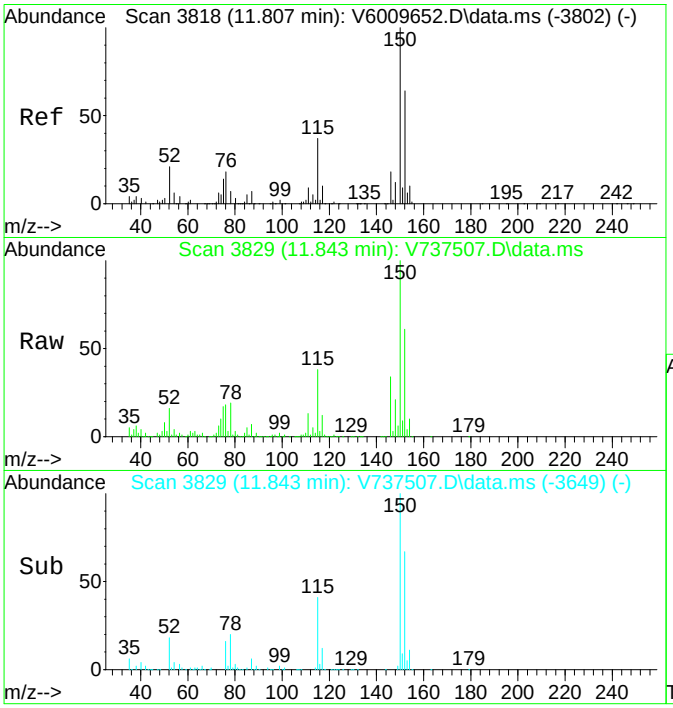


#69
Bromoform
Concen: 10.20 ppb
RT: 9.818 min Scan# 3101
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:173 Resp: 55855

Ion	Ratio	Lower	Upper
173	100		
173	100.0	80.0	120.0
171	0.0	0.0	0.0
175	48.4	32.4	67.4

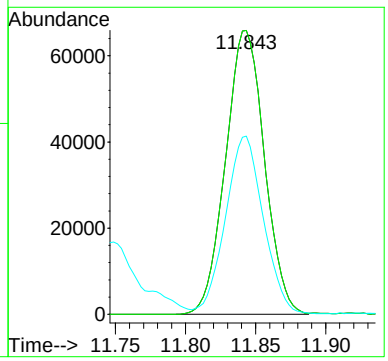


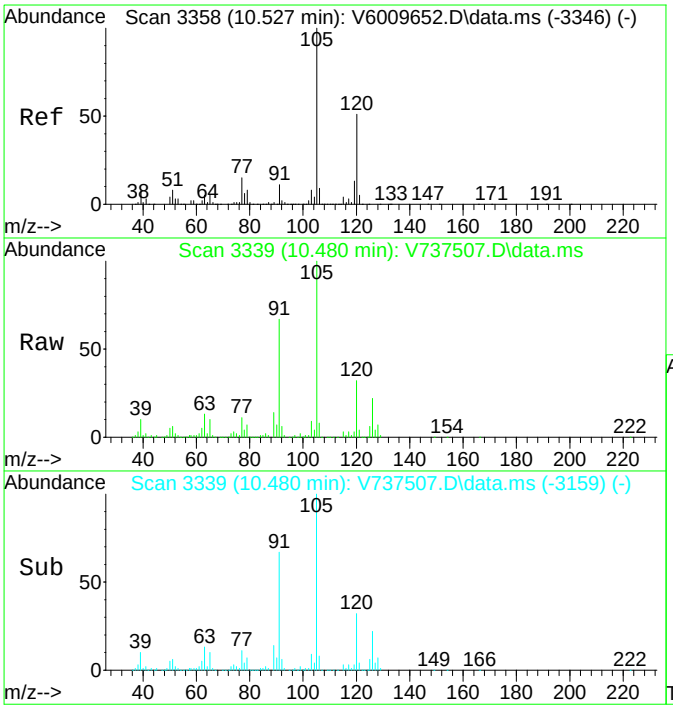


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:152 Resp: 126853

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	60.9	33.7	101.0

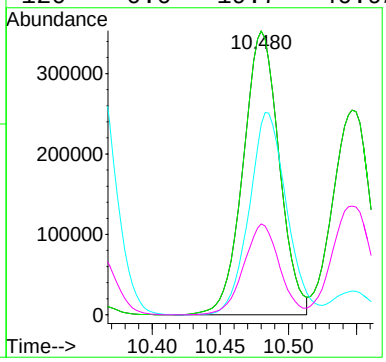


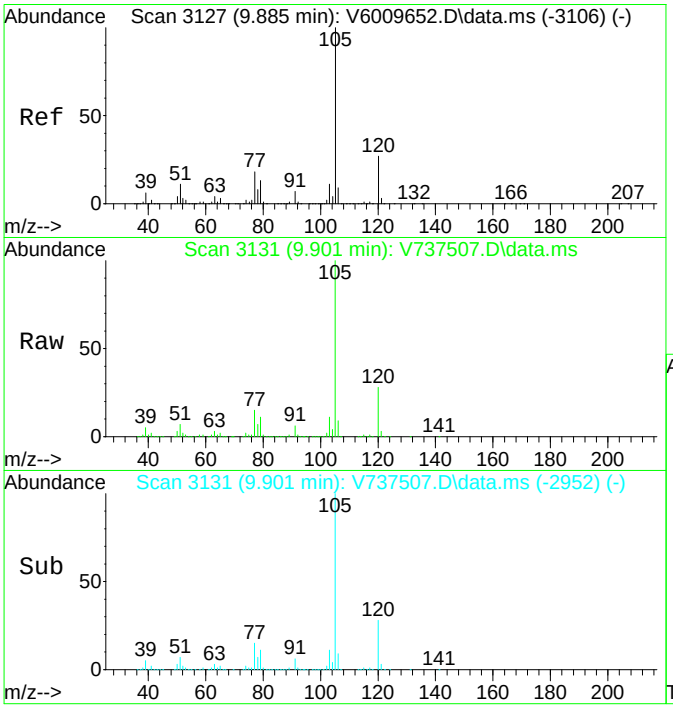


#71
p-Ethyltoluene
Concen: 11.52 ppb
RT: 10.480 min Scan# 3339
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:105 Resp: 650505

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
91	0.0	0.0	0.0
120	0.0	19.7	40.9#

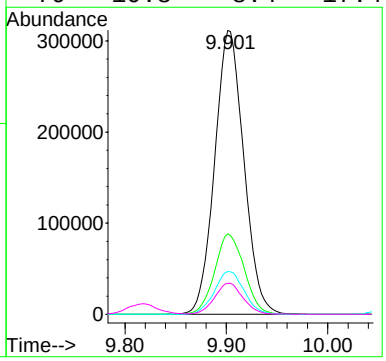


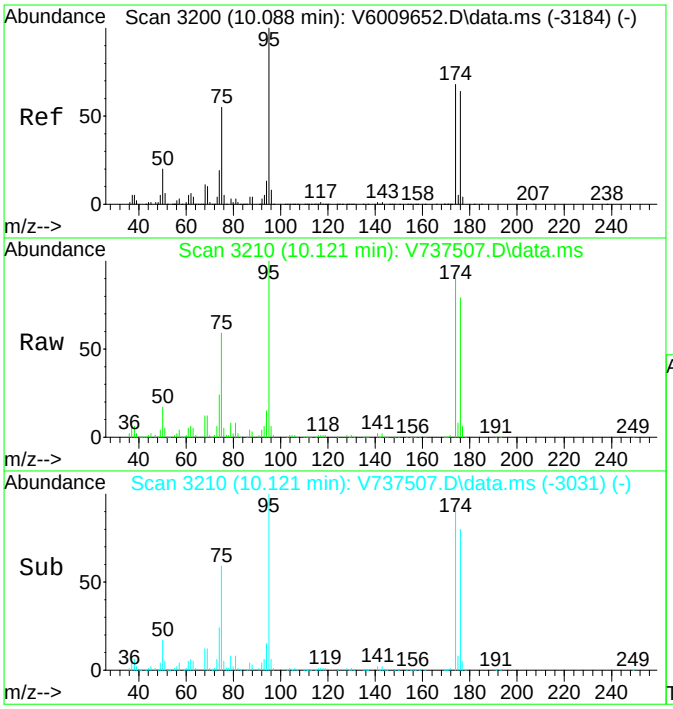


#72
Isopropylbenzene
Concen: 10.48 ppb
RT: 9.901 min Scan# 3131
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:105 Resp: 620657

Ion	Ratio	Lower	Upper
105	100		
120	28.8	17.6	36.6
77	15.5	10.1	20.9
79	10.8	8.4	17.4

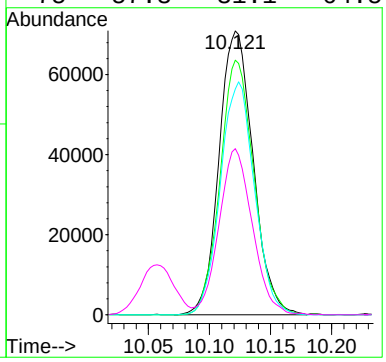


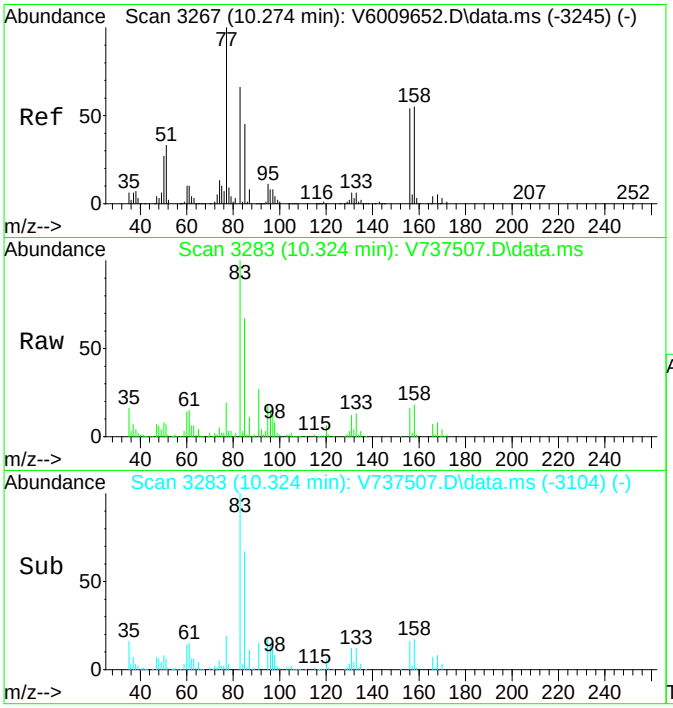


#73
p-Bromofluorobenzene (SURR)
Concen: 10.78 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 95 Resp: 137495

Ion	Ratio	Lower	Upper
95	100		
174	89.3	49.1	102.1
176	82.2	47.7	99.1
75	57.3	31.1	64.5

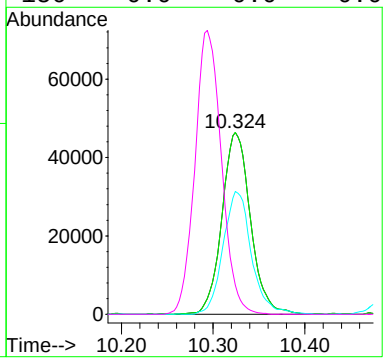


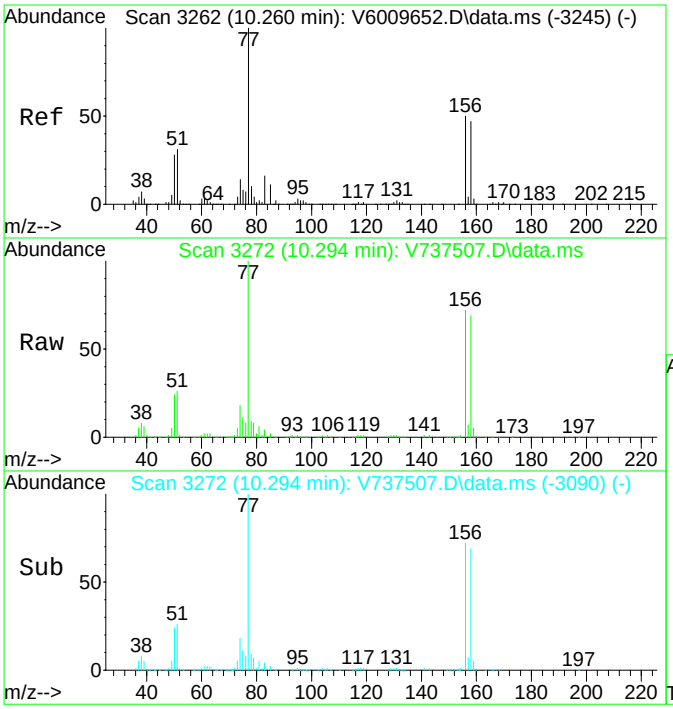


#74
1,1,2,2-Tetrachloroethane
Concen: 10.41 ppb
RT: 10.324 min Scan# 3283
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 83 Resp: 100835

Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
85	66.9	42.1	87.5
156	0.0	0.0	0.0

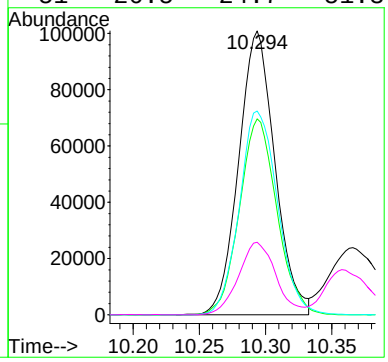


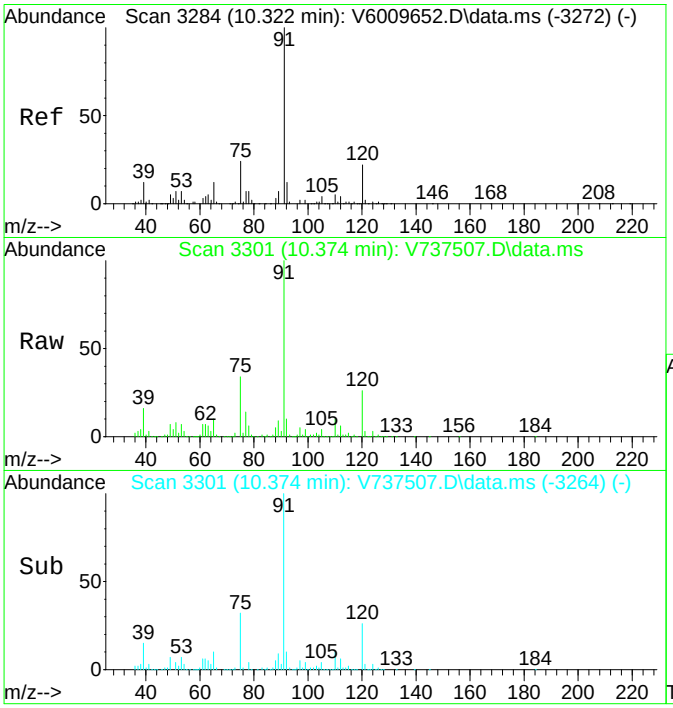


#75
Bromobenzene
Concen: 10.92 ppb
RT: 10.294 min Scan# 3272
Delta R.T. 0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 77 Resp: 192397

Ion	Ratio	Lower	Upper
77	100		
158	71.3	37.2	77.4
156	75.7	38.9	80.7
51	26.5	24.7	51.3

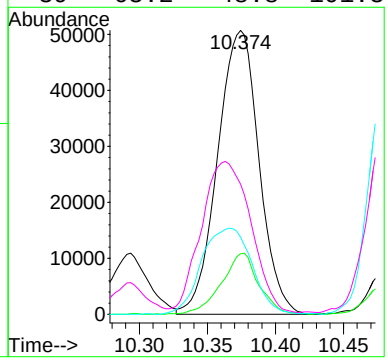


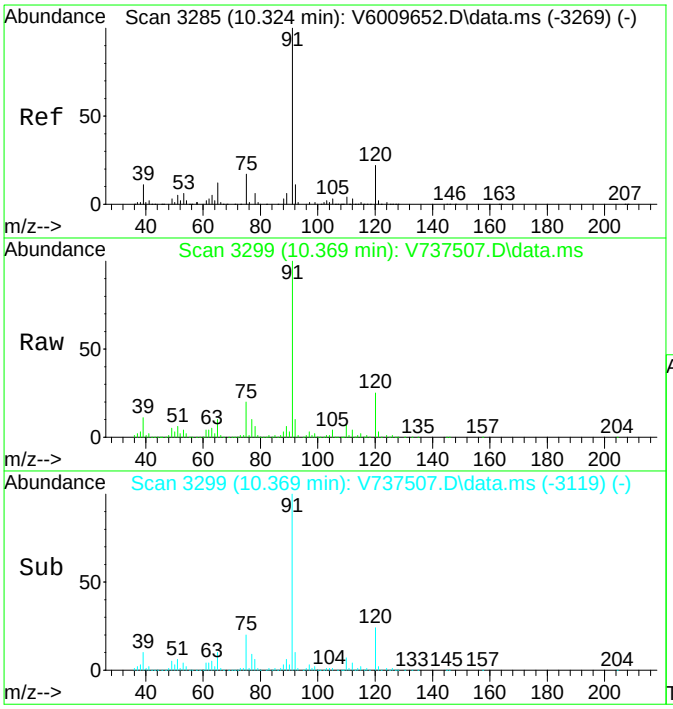


#76
trans-1,4-Dichloro-2-butene
Concen: 11.18 ppb
RT: 10.374 min Scan# 3301
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 75 Resp: 107397

Ion	Ratio	Lower	Upper
75	100		
53	19.4	21.8	45.4#
89	36.9	20.8	43.2
39	63.2	48.8	101.3

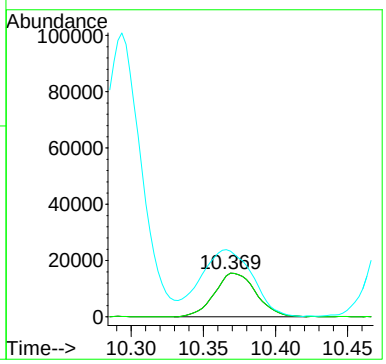


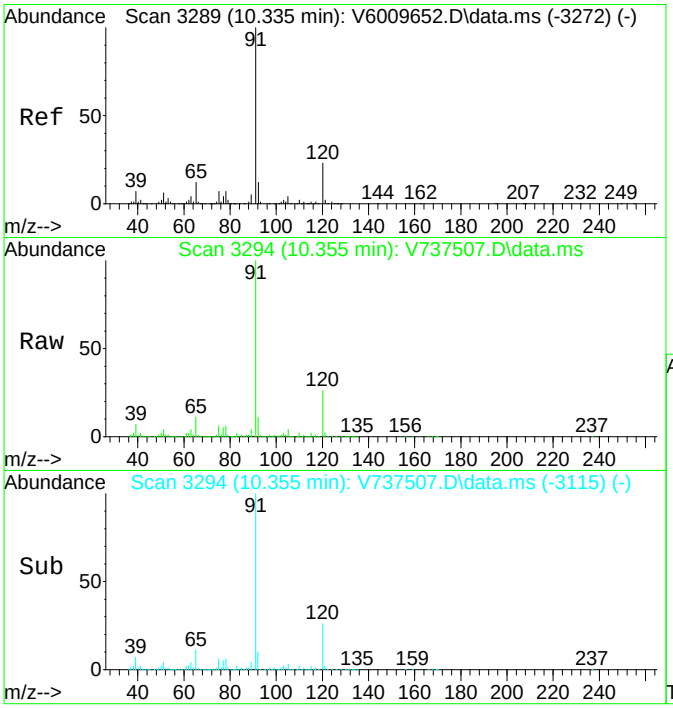


#77
1,2,3-Trichloropropane
Concen: 10.44 ppb
RT: 10.369 min Scan# 3299
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:110 Resp: 31082

Ion	Ratio	Lower	Upper
110	100		
110	100.0	80.0	120.0
77	190.1	113.1	339.4

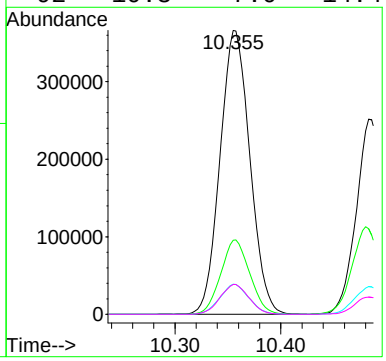


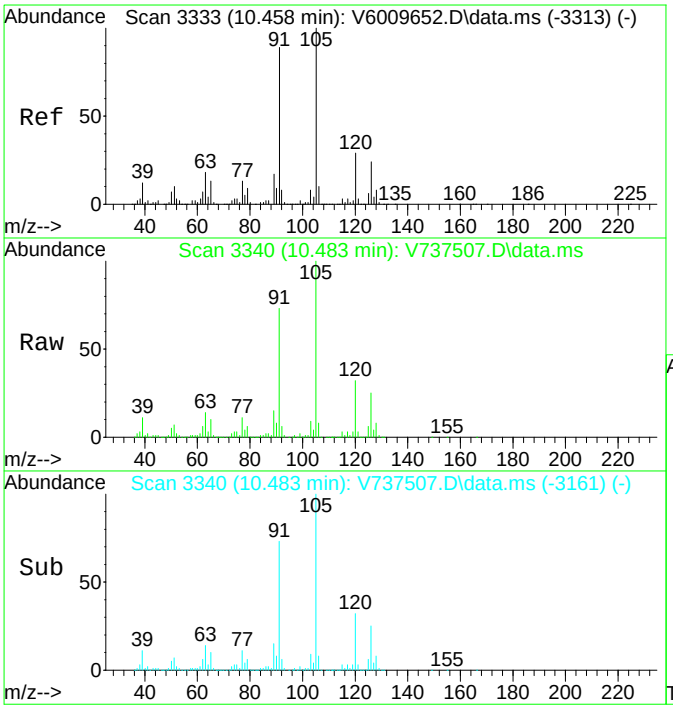


#78
n-Propylbenzene
Concen: 10.68 ppb
RT: 10.355 min Scan# 3294
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 717168

Ion	Ratio	Lower	Upper
91	100		
120	25.5	14.8	30.8
65	10.4	7.0	14.4
92	10.3	7.0	14.4

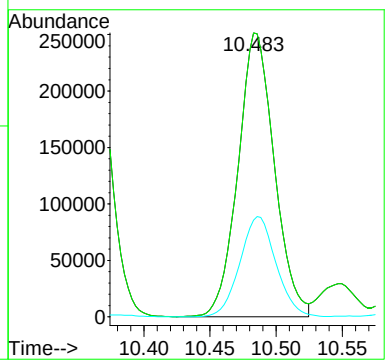


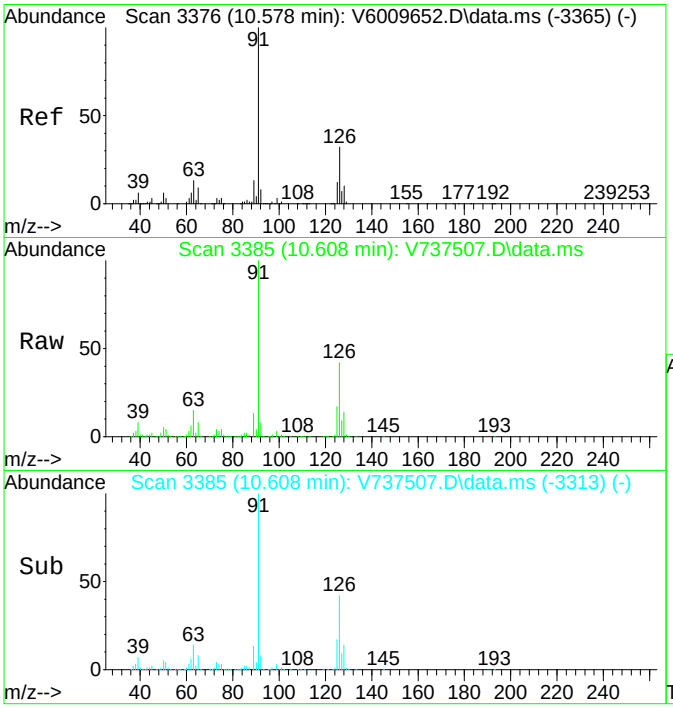


#79
2-Chlorotoluene
Concen: 10.88 ppb
RT: 10.483 min Scan# 3340
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 480628

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
126	35.2	18.1	37.7

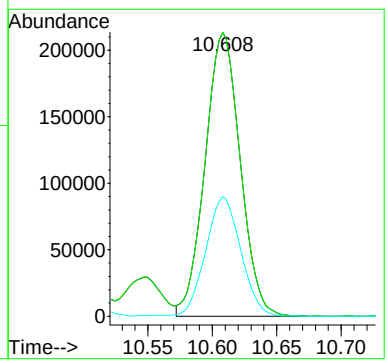


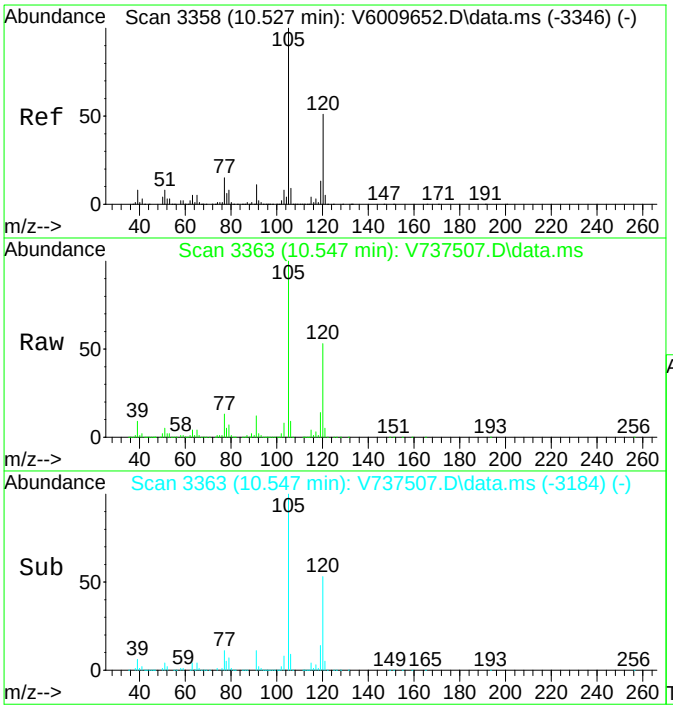


#80
4-Chlorotoluene
Concen: 10.64 ppb
RT: 10.608 min Scan# 3385
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 404396

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
126	42.2	16.0	47.9

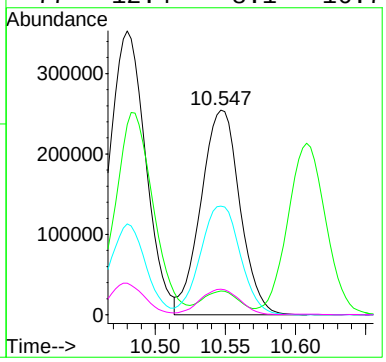


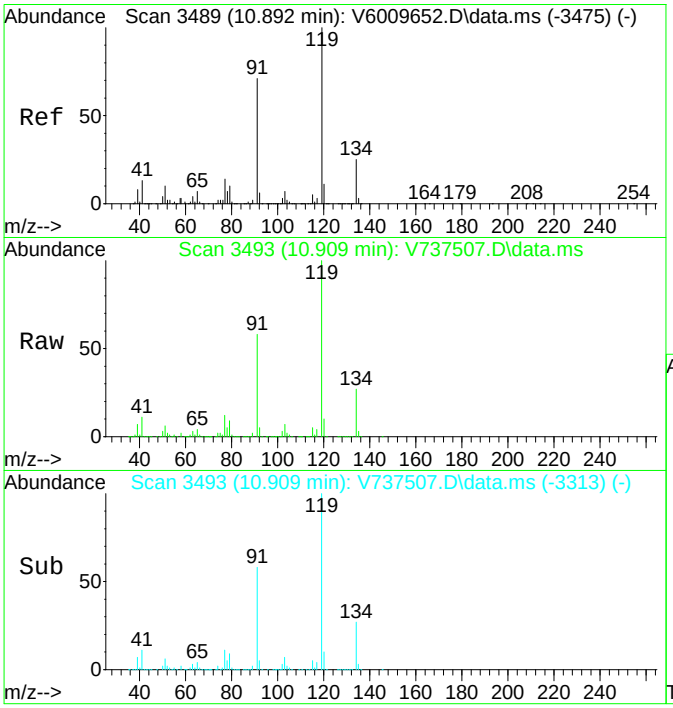


#81
1,3,5-Trimethylbenzene
Concen: 10.65 ppb
RT: 10.547 min Scan# 3363
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:105 Resp: 493376

Ion	Ratio	Lower	Upper
105	100		
91	11.3	6.8	14.2
120	54.8	32.6	67.6
77	12.4	8.1	16.7

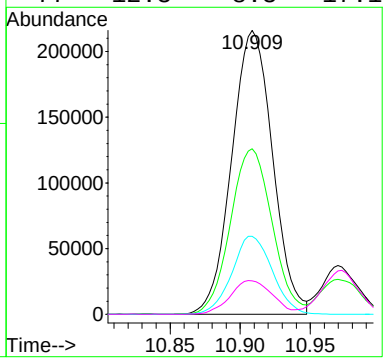


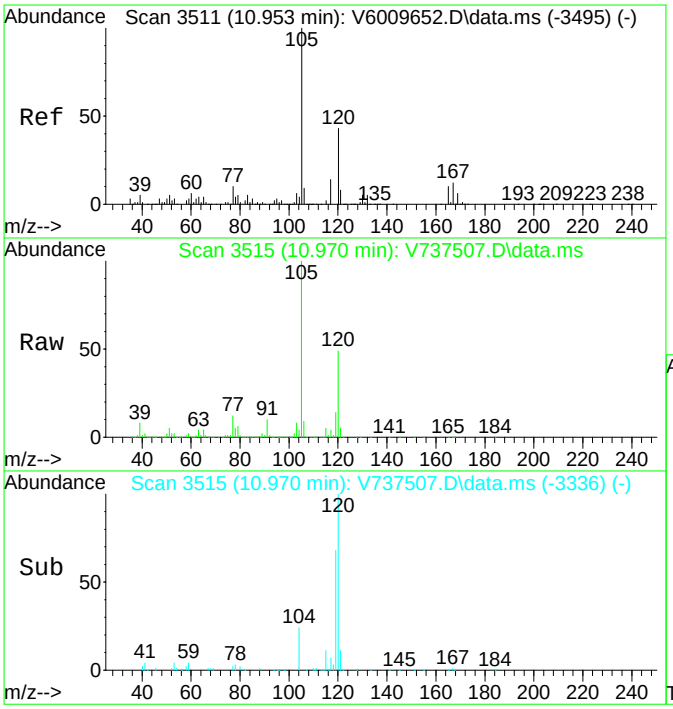


#82
tert-Butylbenzene
Concen: 10.62 ppb
RT: 10.909 min Scan# 3493
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:119 Resp: 438330

Ion	Ratio	Lower	Upper
119	100		
91	59.5	44.3	91.9
134	27.3	15.9	33.1
77	12.3	8.3	17.1

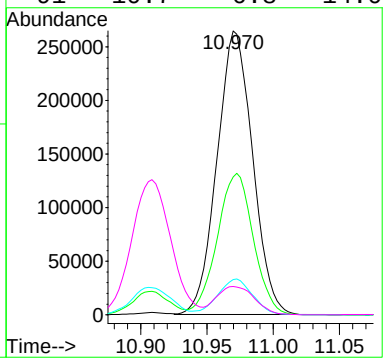


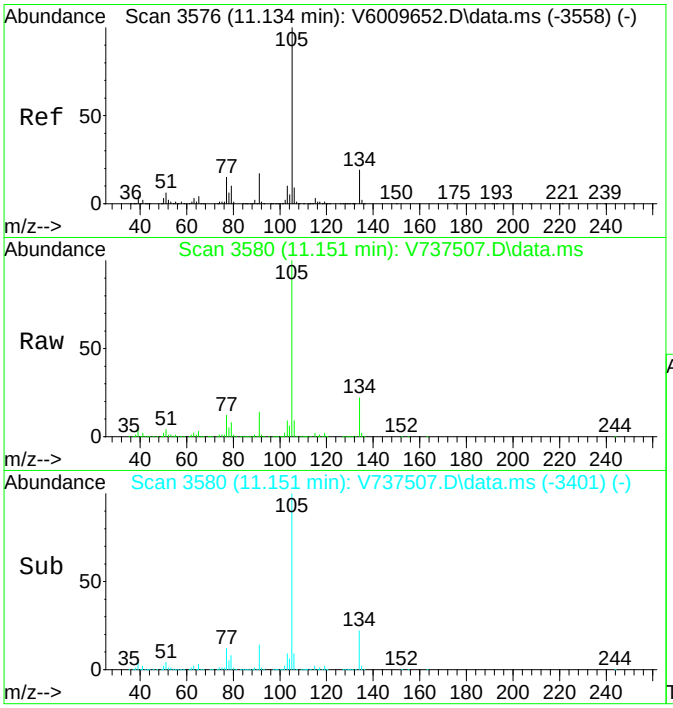


#83
1,2,4-Trimethylbenzene
Concen: 10.51 ppb
RT: 10.970 min Scan# 3515
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:105 Resp: 495365

Ion	Ratio	Lower	Upper
105	100		
120	50.6	30.7	63.7
77	12.5	8.0	16.6
91	10.7	6.8	14.0

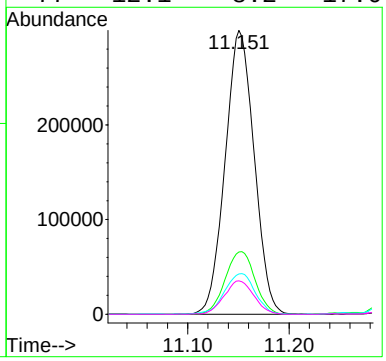


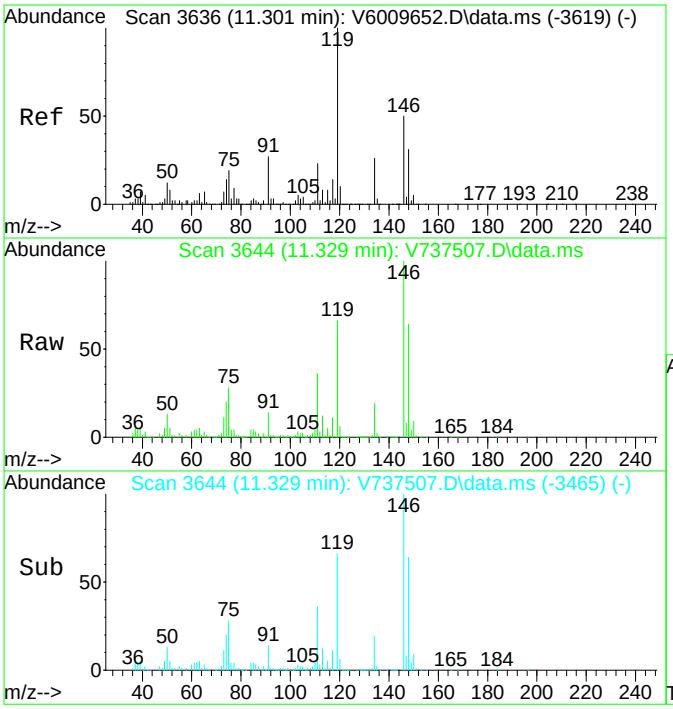


#84
sec-Butylbenzene
Concen: 11.49 ppb
RT: 11.151 min Scan# 3580
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:105 Resp: 595656

Ion	Ratio	Lower	Upper
105	100		
134	22.8	13.5	28.1
91	15.0	10.7	22.1
77	12.1	8.2	17.0

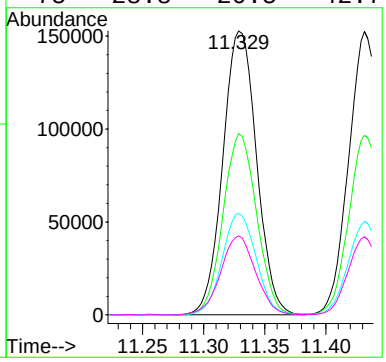


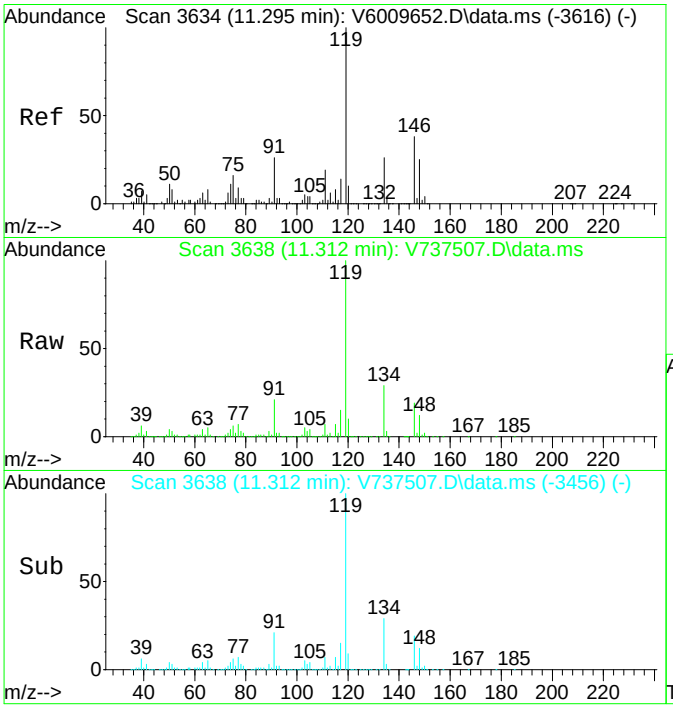


#85
1,3-Dichlorobenzene
Concen: 10.20 ppb
RT: 11.329 min Scan# 3644
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:146 Resp: 293889

Ion	Ratio	Lower	Upper
146	100		
148	63.4	41.7	86.5
111	35.9	27.2	56.6
75	28.8	20.5	42.7

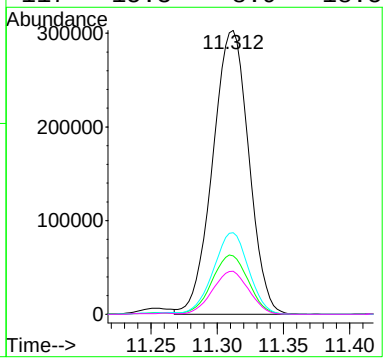


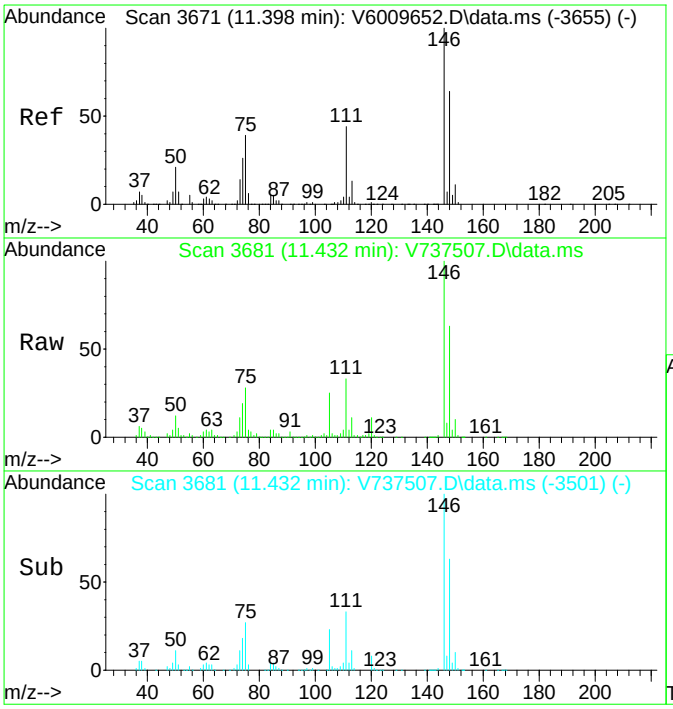


#86
p-Isopropyltoluene
Concen: 11.05 ppb
RT: 11.312 min Scan# 3638
Delta R.T. 0.006 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:119 Resp: 574245

Ion	Ratio	Lower	Upper
119	100		
91	21.1	15.8	32.8
134	28.2	17.6	36.6
117	15.3	8.9	18.5

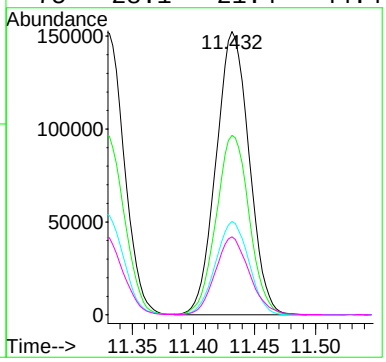


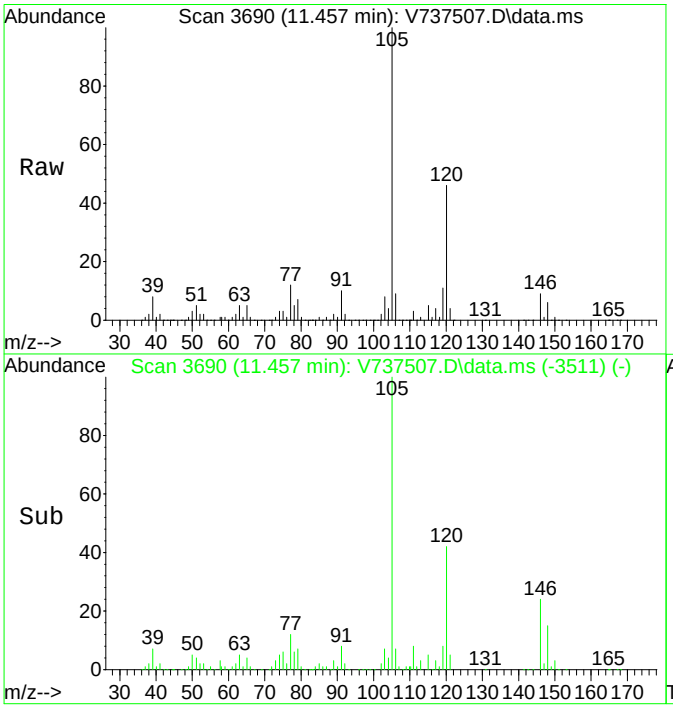


#87
1,4-Dichlorobenzene
Concen: 10.08 ppb
RT: 11.432 min Scan# 3681
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:146 Resp: 287277

Ion	Ratio	Lower	Upper
146	100		
148	63.1	41.0	85.2
111	33.2	26.3	54.7
75	28.1	21.4	44.4

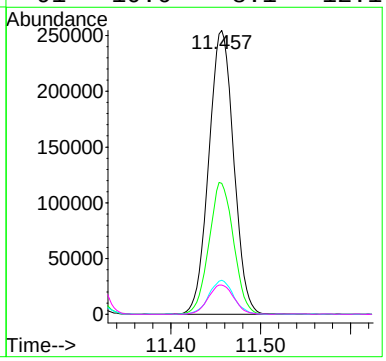


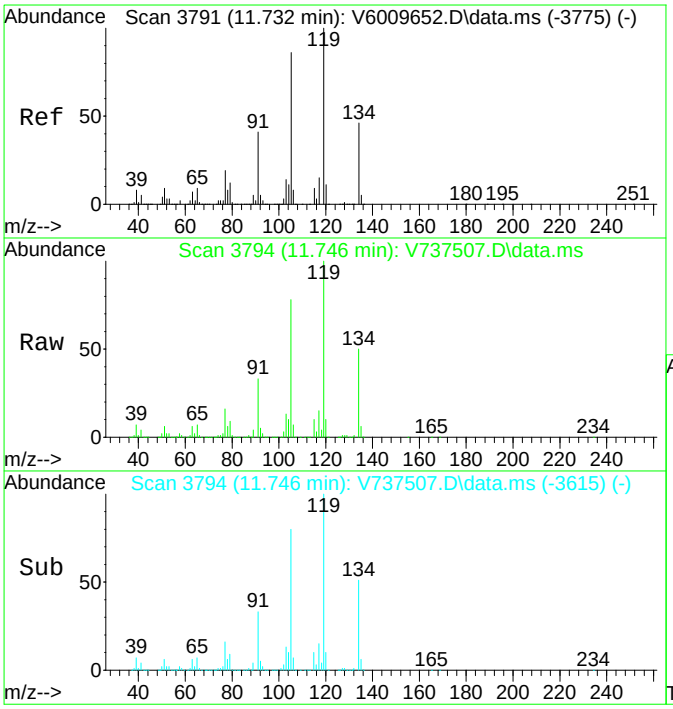


#88
1,2,3-Trimethylbenzene
Concen: 11.10 ppb
RT: 11.457 min Scan# 3690
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:105 Resp: 489559

Ion	Ratio	Lower	Upper
105	100		
120	45.9	34.3	51.5
77	12.0	9.8	14.8
91	10.6	8.1	12.1

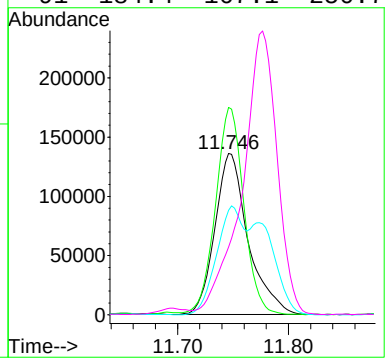


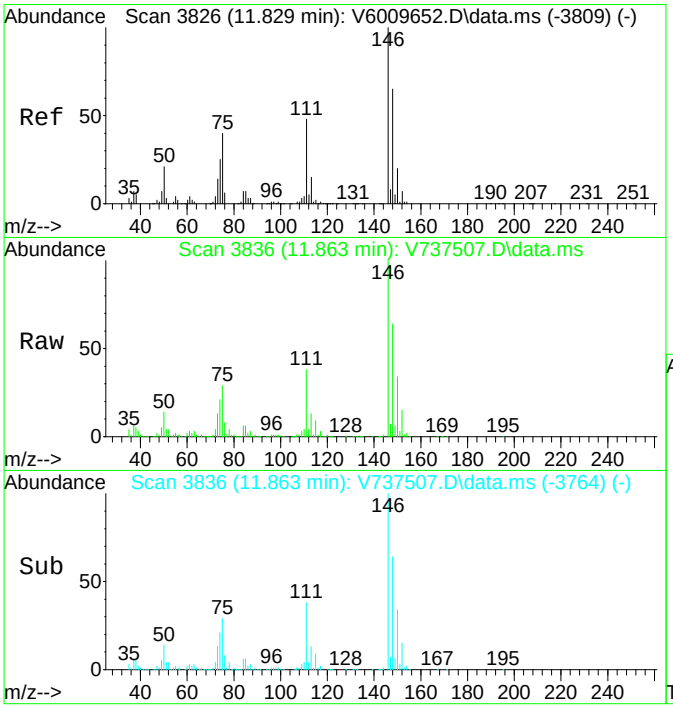


#89
p-Diethylbenzene
Concen: 12.89 ppb
RT: 11.746 min Scan# 3794
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:105 Resp: 282656

Ion	Ratio	Lower	Upper
105	100		
119	109.1	83.7	125.5
134	56.6	35.5	73.7
91	184.4	167.1	250.7

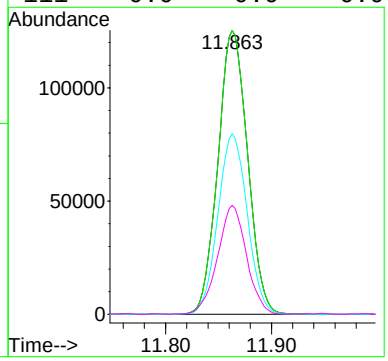


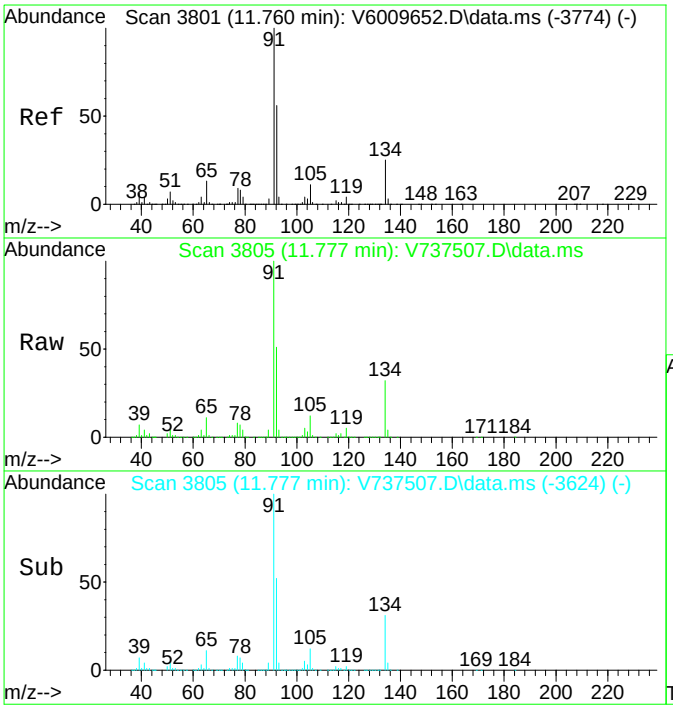


#90
1,2-Dichlorobenzene
Concen: 10.22 ppb
RT: 11.863 min Scan# 3836
Delta R.T. 0.000 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:146 Resp: 244046

Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	62.9	41.6	86.4
111	0.0	0.0	0.0

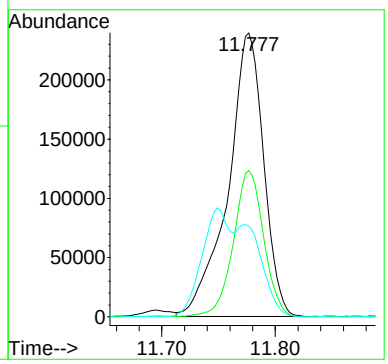


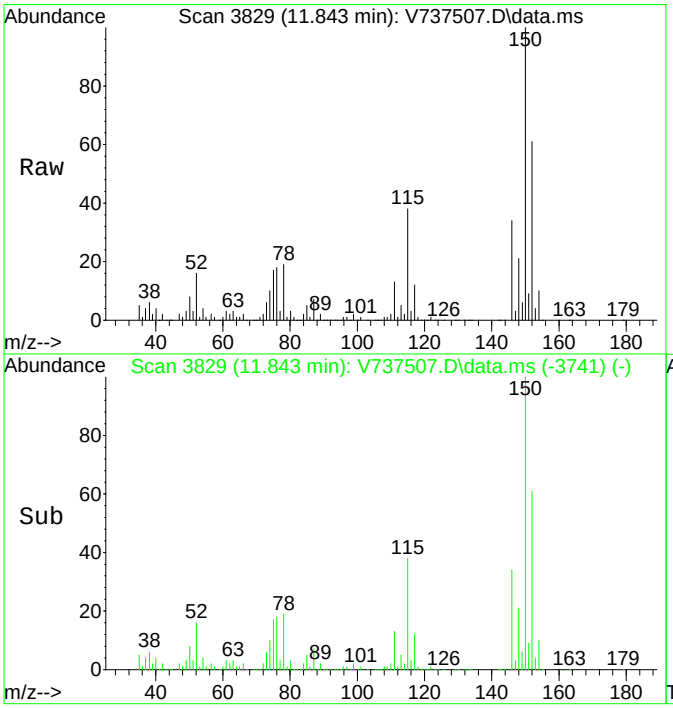


#91
n-Butylbenzene
Concen: 14.79 ppb
RT: 11.777 min Scan# 3805
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 91 Resp: 521237

Ion	Ratio	Lower	Upper
91	100		
92	44.2	30.9	64.1
134	30.7	17.0	35.4

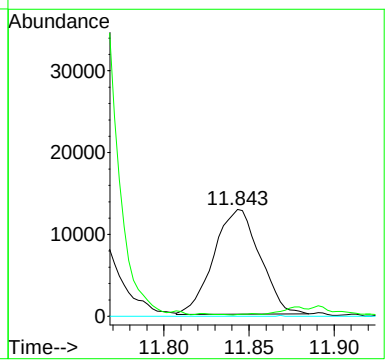


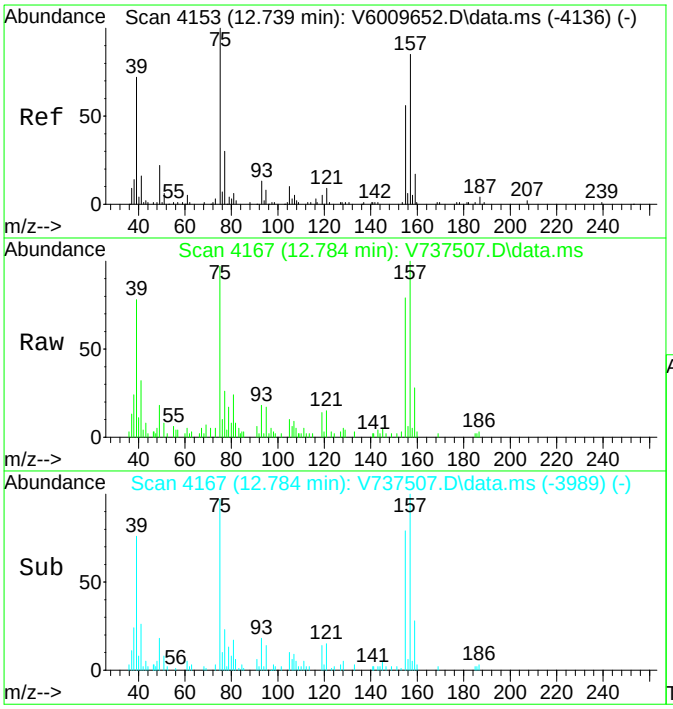


#92
Hexachloroethane
Concen: 3.22 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.256 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:117 Resp: 24124

Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.3	117.5#
201	0.1	66.1	99.1#

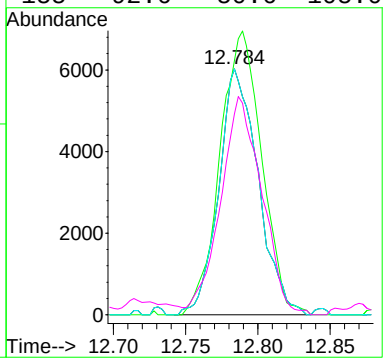


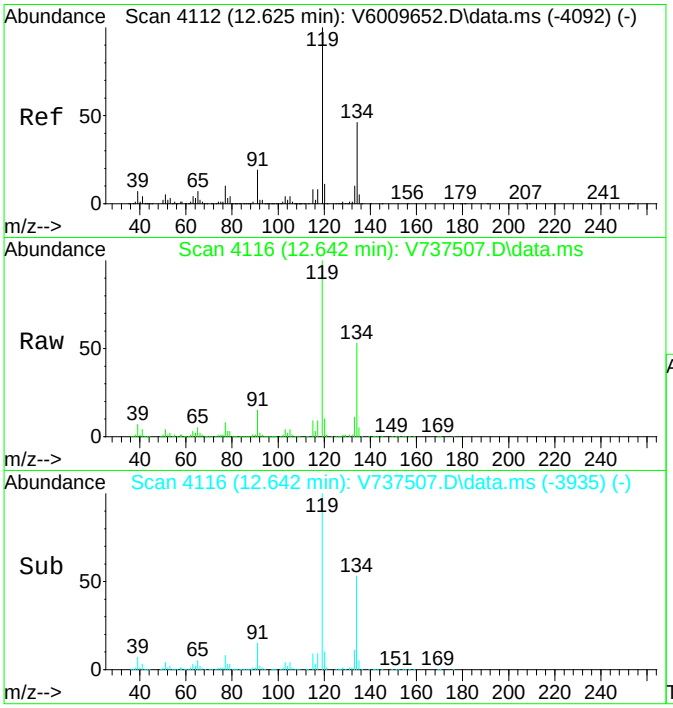


#93
1,2-Dibromo-3-chloropropane
Concen: 10.43 ppb
RT: 12.784 min Scan# 4167
Delta R.T. -0.005 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion: 75 Resp: 11450

Ion	Ratio	Lower	Upper
75	100		
157	122.2	80.2	120.2#
75	100.0	65.0	135.0
155	92.6	50.6	105.0

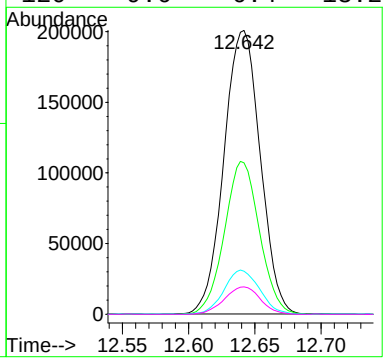


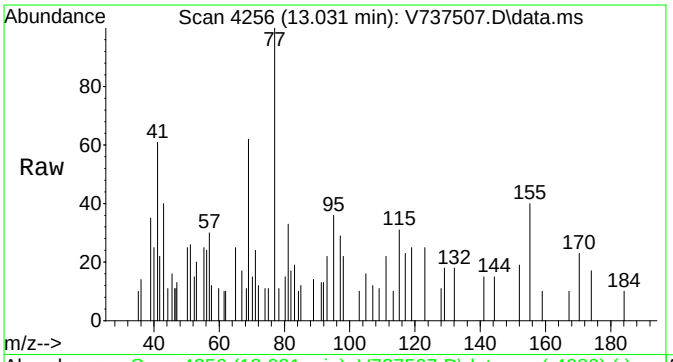


#94
1,2,4,5-Tetramethylbenzene
Concen: 10.85 ppb
RT: 12.642 min Scan# 4116
Delta R.T. 0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:119 Resp: 383158

Ion	Ratio	Lower	Upper
119	100		
134	52.0	31.2	64.8
91	15.4	10.5	21.7
120	9.6	6.4	13.2

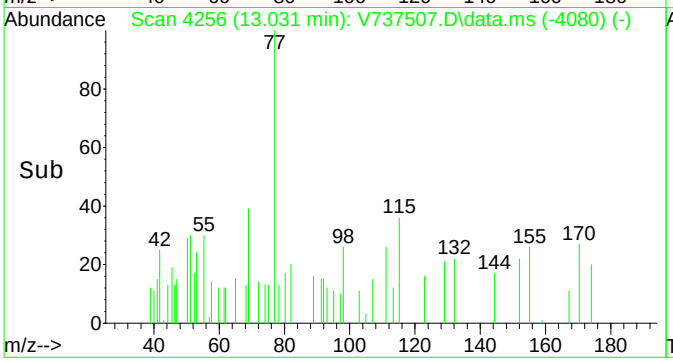


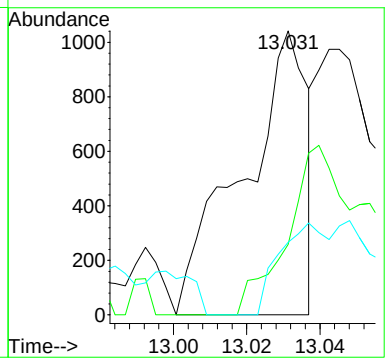


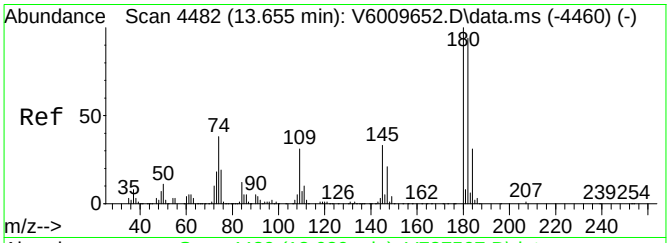
#95
Nitrobenzene
Concen: 7.18 ppb
RT: 13.031 min Scan# 4256
Delta R.T. -0.011 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

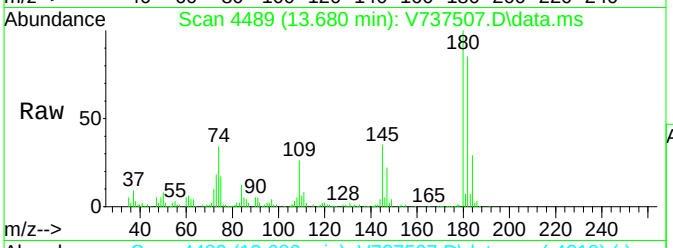
Tgt Ion: 77 Resp: 1277

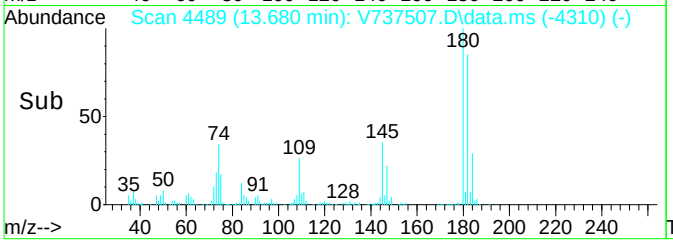
Ion	Ratio	Lower	Upper
77	100		
123	76.8	30.3	45.5#
51	0.0	40.8	61.2#







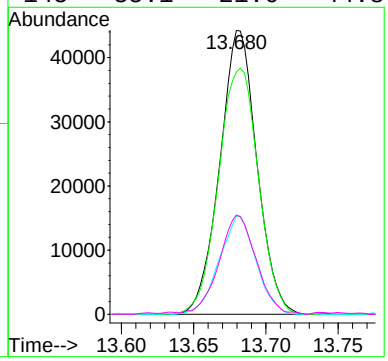


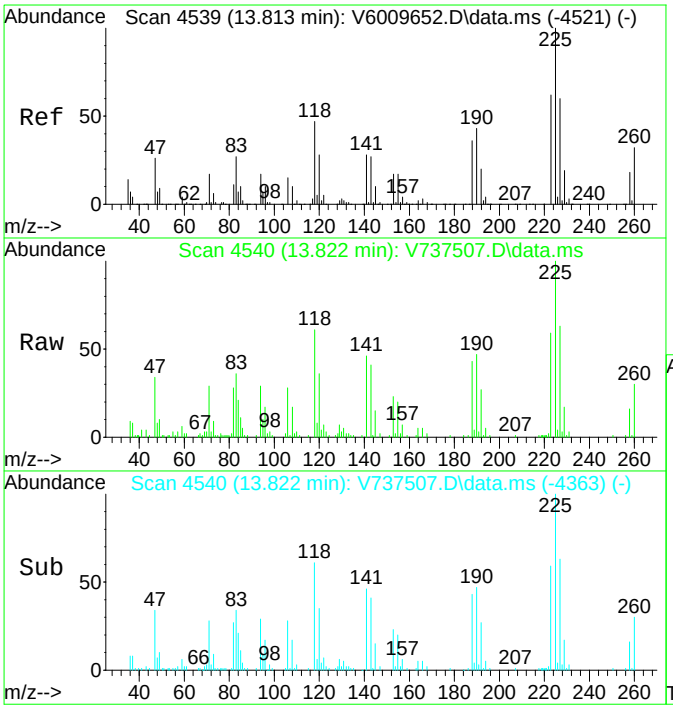


#96
1,2,4-Trichlorobenzene
Concen: 9.52 ppb
RT: 13.680 min Scan# 4489
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:180 Resp: 79173

Ion	Ratio	Lower	Upper
180	100		
182	93.3	62.1	129.1
74	34.3	20.0	41.6
145	35.1	21.6	44.8

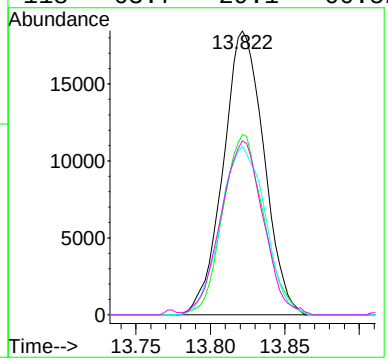


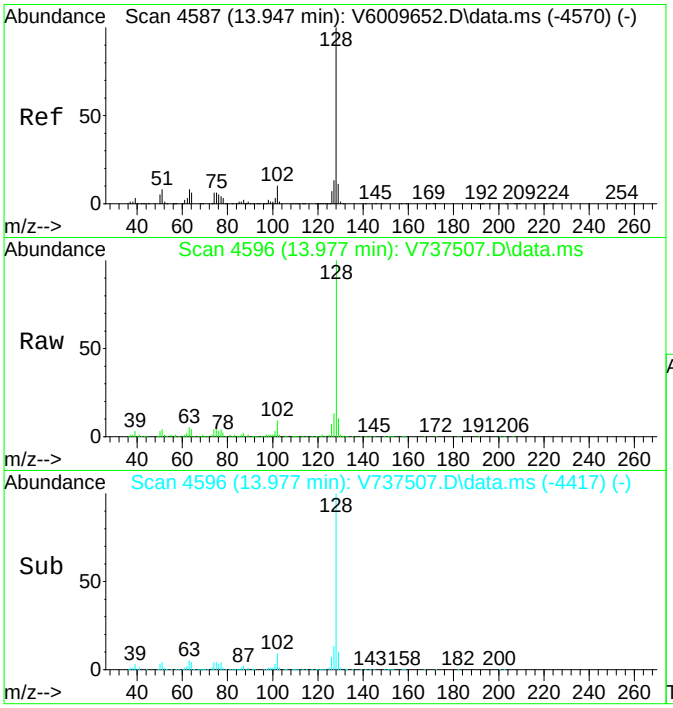


#97
Hexachloro-1,3-Butadiene
Concen: 10.44 ppb
RT: 13.822 min Scan# 4540
Delta R.T. -0.008 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:225 Resp: 35133

Ion	Ratio	Lower	Upper
225	100		
227	63.5	41.6	86.4
223	64.9	40.8	84.6
118	63.7	29.1	60.5#

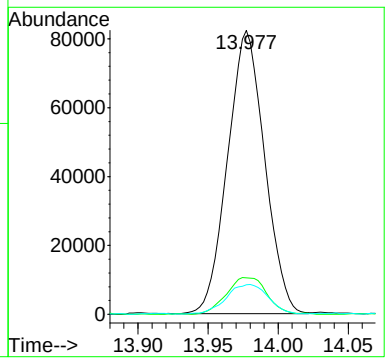


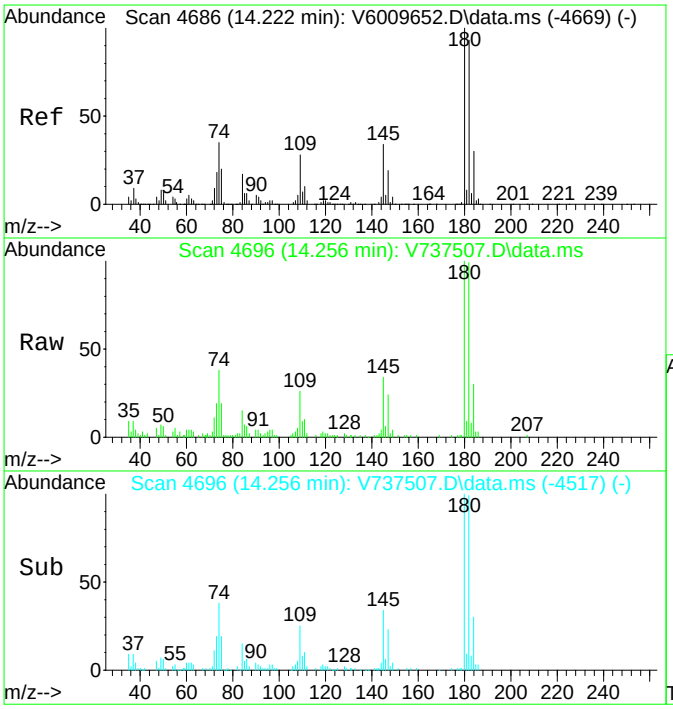


#98
Naphthalene
Concen: 9.78 ppb
RT: 13.977 min Scan# 4596
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:128 Resp: 150253

Ion	Ratio	Lower	Upper
128	100		
127	14.2	8.3	17.1
129	11.8	7.1	14.7

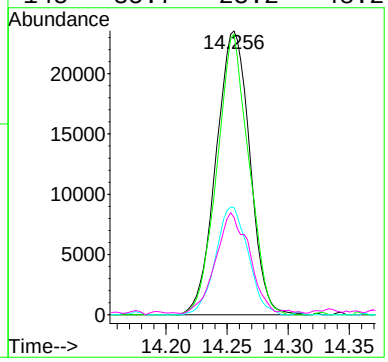




#99
1,2,3-Trichlorobenzene
Concen: 9.15 ppb
RT: 14.256 min Scan# 4696
Delta R.T. -0.003 min
Lab File: V737507.D
Acq: 22 Dec 2019 3:35 pm

Tgt Ion:180 Resp: 45138

Ion	Ratio	Lower	Upper
180	100		
182	93.3	62.0	128.8
74	36.8	18.9	39.1
145	35.7	23.2	48.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737509.D
Acq On : 22 Dec 2019 4:34 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BSD1
Misc : QBV7122219A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 23 08:52:41 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.822	70	78807	10.00	ppb		# 0.00
41) CHLOROBENZENE-d5 (ISTD)	8.855	117	350789	10.00	ppb		# 0.00
70) 1,2-DICHLOROBENZENE-d4...	11.843	152	125454	10.00	ppb		0.00
System Monitoring Compounds							
35) d4-1,2-Dichloroethane ...	5.550	65	89022	9.83	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.30%				
53) Toluene-d8 (SURR)	7.344	98	456663	10.11	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.10%				
73) p-Bromofluorobenzene (...	10.121	95	136698	10.84	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.493	85	183236	20.16	ppb		96
3) Chloromethane	1.699	50	121977	13.99	ppb		97
4) Vinyl Chloride	1.799	62	175481	11.65	ppb		99
5) Bromomethane	2.155	94	106886	16.34	ppb		99
6) Chloroethane	2.258	64	150880	11.44	ppb		100
7) Trichlorofluoromethane	2.495	101	570701	11.47	ppb		99
8) Ethanol	2.793	45	49505	1594.69	ppb	#	52
9) Freon-113	2.998	101	114596	10.74	ppb		96
10) 1,1-Dichloroethylene	3.035	61	151256	10.66	ppb	#	74
11) Acrolein	2.990	56	4816	4.85	ppb		92
12) Acetone	3.143	43	12859	8.29	ppb	#	100
13) Iodomethane	3.210	142	56737	22.40	ppb		99
14) Ally Chloride	3.407	41	135958	10.44	ppb	#	76
15) Methyl Acetate	3.435	43	36426	9.57	ppb	#	96
16) Carbon disulfide	3.257	76	336545	10.79	ppb		100
17) tert-Butyl Alcohol (TBA)	3.683	59	30292	47.29	ppb	#	100
18) Methylene Chloride	3.552	49	119327	10.98	ppb	#	62
19) Acrylonitrile	3.830	53	13676	9.30	ppb	#	77
20) trans-1,2-Dichloroethy...	3.783	61	145138	11.01	ppb	#	100
21) tert-Butyl Methyl Ethe...	3.755	73	275882	10.35	ppb		95
22) 1,1-Dichloroethane	4.206	63	187765	9.87	ppb		98
23) Vinyl Acetate	4.234	43	106760	7.51	ppb	#	100
24) Diisopropyl ether (DIPE)	4.189	45	276822	10.11	ppb	#	93
25) Ethyl-tert-Butyl ether...	4.534	59	283401	10.92	ppb	#	85
26) cis-1,2-Dichloroethylene	4.765	61	156791	10.20	ppb	#	71
27) 2-Butanone	4.785	72	9057	9.50	ppb	#	100
28) 2,2-Dichloropropane	4.732	77	174767	10.88	ppb	#	86
29) Tetrahydrofuran	5.029	71	7229	7.88	ppb	#	68
30) Bromochloromethane	5.004	49	65302	9.53	ppb	#	58
31) Chloroform	5.068	83	204949	9.98	ppb	#	99
32) 1,1,1-Trichloroethane	5.199	97	203148	10.74	ppb	#	67
33) Cyclohexane	5.213	56	154562	10.84	ppb	#	70
34) 1,1-Dichloropropylene	5.349	75	168059	10.08	ppb		83
36) Carbon Tetrachloride	5.341	117	193144	10.19	ppb	#	58
37) tert-Amyl alcohol (TAA)	5.586	59	64963	98.03	ppb	#	78
38) 1,2-Dichloroethane	5.822	62	6887	0.59	ppb		96
39) Benzene	5.561	78	464984	10.31	ppb	#	69
40) tert-Amyl methyl ether...	5.608	73	358004	10.68	ppb	#	99
42) Trichloroethylene	6.165	95	124305	9.91	ppb		80
43) Methyl Cyclohexane	6.293	83	184344	10.66	ppb	#	72
44) Methyl Methacrylate	6.479	69	55596	10.06	ppb	#	26
45) Dibromomethane	6.554	93	62680	9.74	ppb		98
46) Bromodichloromethane	6.699	83	142362	9.97	ppb		94
47) 1,2-Dichloropropane	6.412	63	97826	9.69	ppb		95
48) 1,4-Dioxane	6.546	88	2897	75.46	ppb		95
49) 2-Nitropropane	6.946	43	16037	6.11	ppb	#	14
50) 2-Chloroethyl vinyl ether	7.411	63	43388	18.74	ppb	#	91
51) cis-1,3-Dichloropropene	7.113	75	170642	10.48	ppb		88

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737509.D
Acq On : 22 Dec 2019 4:34 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BSD1
Misc : QBV7122219A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 23 08:52:41 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

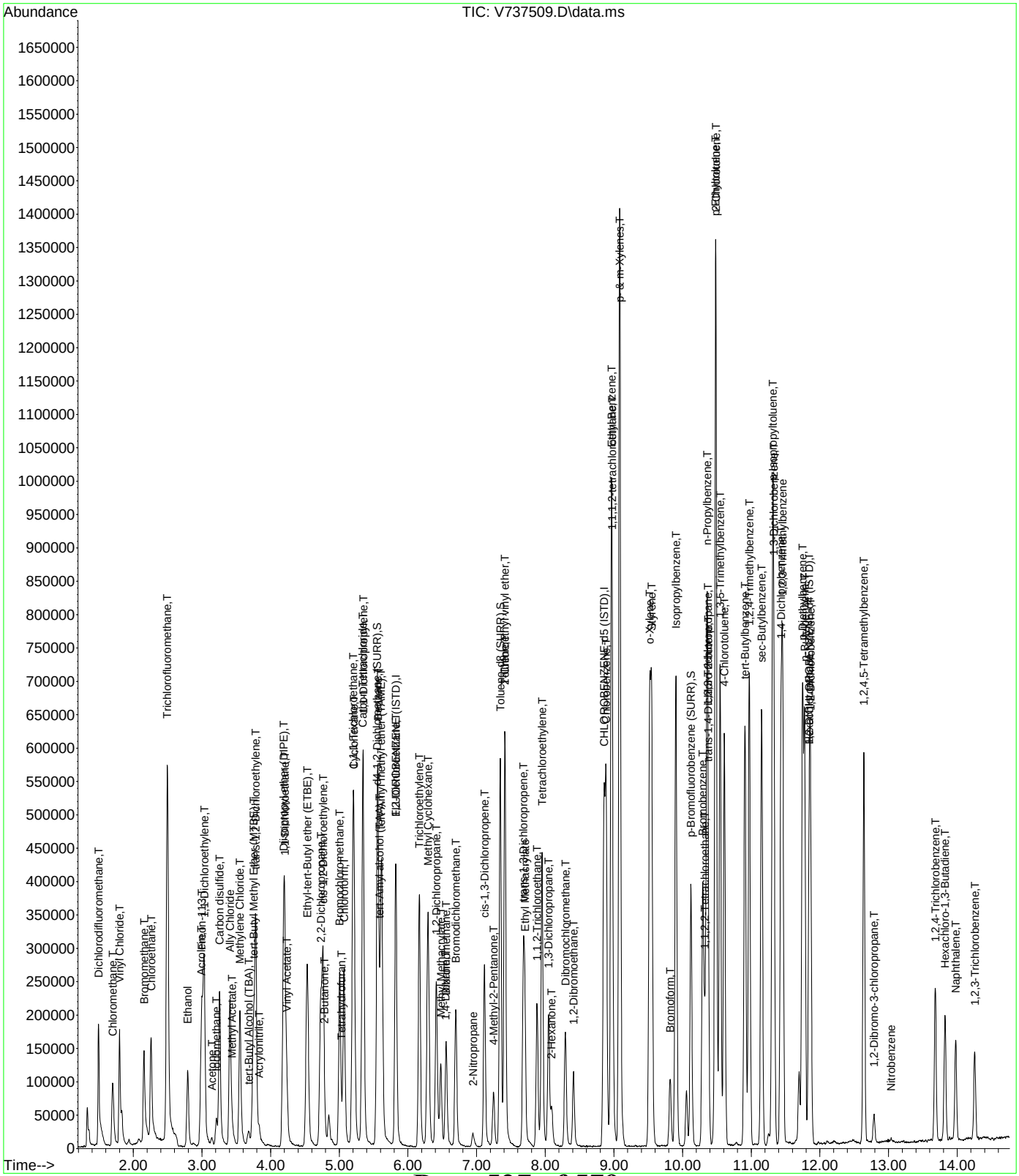
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 4-Methyl-2-Pentanone	7.247	43	63786	10.80	ppb	#	92
54) Toluene	7.411	91	533049	10.29	ppb		99
55) Ethyl Methacrylate	7.703	69	117202	10.30	ppb	#	27
56) trans-1,3-Dichloropropene	7.681	75	146845	10.55	ppb		99
57) 1,1,2-Trichloroethane	7.881	97	75303	9.45	ppb		94
58) 1,3-Dichloropropane	8.048	76	131794	9.82	ppb	#	100
59) Tetrachloroethylene	7.954	166	129138	8.45	ppb	#	100
60) 2-Hexanone	8.090	43	43952	10.42	ppb		92
61) Dibromochloromethane	8.293	129	106922	10.38	ppb	#	93
62) 1,2-Dibromoethane	8.413	107	78310	9.65	ppb		99
63) Chlorobenzene	8.886	112	363060	9.84	ppb	#	87
64) 1,1,1,2-tetrachloroethane	8.975	131	140340	10.17	ppb		97
65) Ethyl Benzene	8.964	91	605995	10.24	ppb		96
66) p- & m-Xylenes	9.083	91	935298	20.35	ppb		94
67) o-Xylene	9.520	91	452030	10.22	ppb		98
68) Styrene	9.548	104	389916	10.38	ppb	#	100
69) Bromoform	9.818	173	50713	9.37	ppb	#	76
71) p-Ethyltoluene	10.480	105	603411	10.81	ppb	#	87
72) Isopropylbenzene	9.904	105	585587	10.00	ppb		97
74) 1,1,2,2-Tetrachloroethane	10.324	83	97344	10.16	ppb	#	100
75) Bromobenzene	10.294	77	177302	10.17	ppb		78
76) trans-1,4-Dichloro-2-b...	10.374	75	98076	10.33	ppb	#	86
77) 1,2,3-Trichloropropane	10.371	110	30247	10.27	ppb		81
78) n-Propylbenzene	10.358	91	678161	10.22	ppb		97
79) 2-Chlorotoluene	10.485	91	448664	10.27	ppb		97
80) 4-Chlorotoluene	10.608	91	387721	10.31	ppb		96
81) 1,3,5-Trimethylbenzene	10.547	105	472712	10.32	ppb		97
82) tert-Butylbenzene	10.908	119	412132	10.10	ppb		91
83) 1,2,4-Trimethylbenzene	10.972	105	469483	10.07	ppb		97
84) sec-Butylbenzene	11.150	105	572361	11.16	ppb		97
85) 1,3-Dichlorobenzene	11.329	146	278570	9.78	ppb		95
86) p-Isopropyltoluene	11.312	119	536922	10.45	ppb		96
87) 1,4-Dichlorobenzene	11.434	146	268294	9.51	ppb		95
88) 1,2,3-Trimethylbenzene	11.456	105	456182	10.46	ppb		96
89) p-Diethylbenzene	11.746	105	260707	12.02	ppb		89
90) 1,2-Dichlorobenzene	11.863	146	233055	9.87	ppb	#	100
91) n-Butylbenzene	11.776	91	488264	14.01	ppb		92
92) Hexachloroethane	11.843	117	24388	3.28	ppb	#	4
93) 1,2-Dibromo-3-chloropr...	12.789	75	10173	9.37	ppb	#	87
94) 1,2,4,5-Tetramethylben...	12.642	119	363485	10.41	ppb		96
95) Nitrobenzene	13.040	77	2200	12.50	ppb	#	82
96) 1,2,4-Trichlorobenzene	13.682	180	74765	9.09	ppb		98
97) Hexachloro-1,3-Butadiene	13.821	225	33611	10.10	ppb	#	91
98) Naphthalene	13.977	128	142321	9.37	ppb		98
99) 1,2,3-Trichlorobenzene	14.255	180	42992	8.80	ppb		96

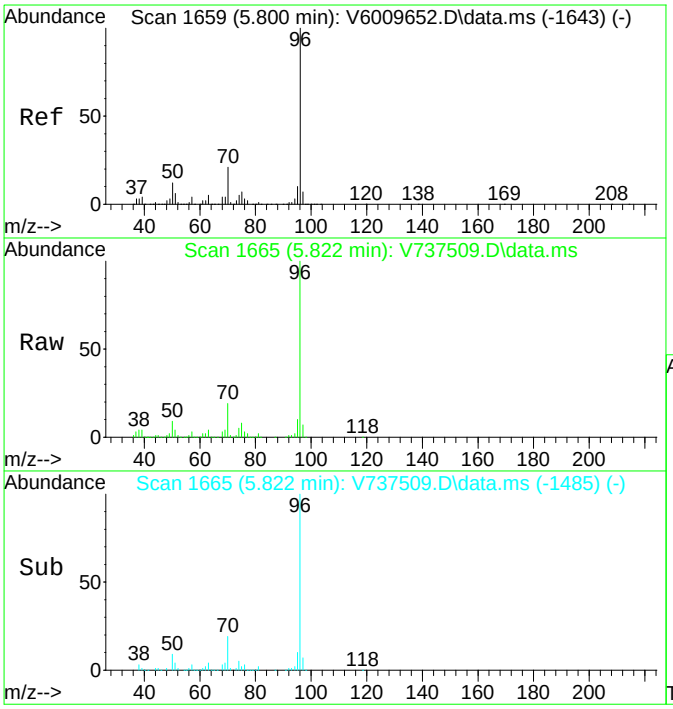
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V7122219\
Data File : V737509.D
Acq On : 22 Dec 2019 4:34 pm
InstName : MSVOA7
Operator : SS
Sample : BL91221-BSD1
Misc : QBV7122219A
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 23 08:52:41 2019
Quant Method : C:\msdchem\1\methods\V7LO0138.M
Quant Title : Volatile Organics EPA 8260C
QLast Update : Mon Dec 16 10:09:48 2019
Response via : Initial Calibration

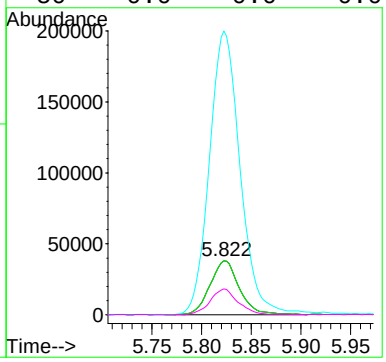


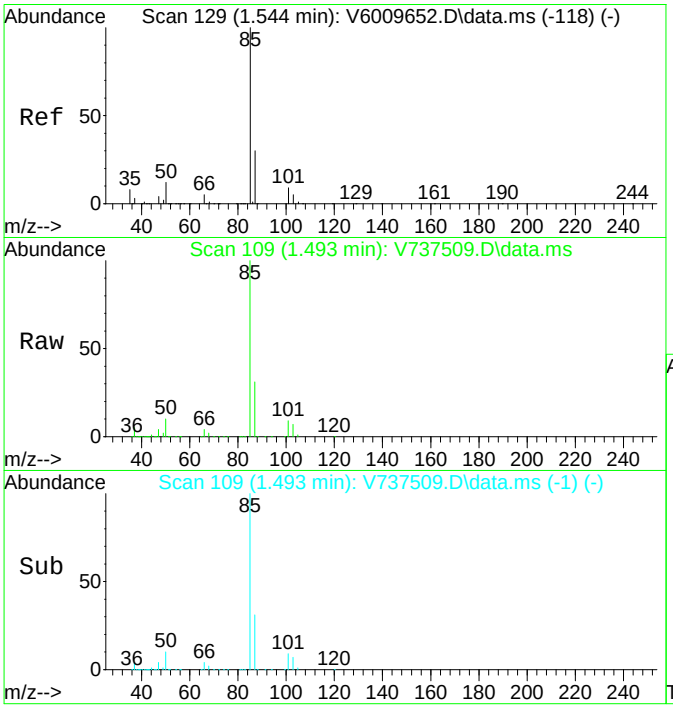


#1
FLUOROBENZENE (ISTD)
Concen: 10.00 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 70 Resp: 78807

Ion	Ratio	Lower	Upper
70	100		
70	100.0	65.0	135.0
96	543.6	323.6	672.2
50	0.0	0.0	0.0

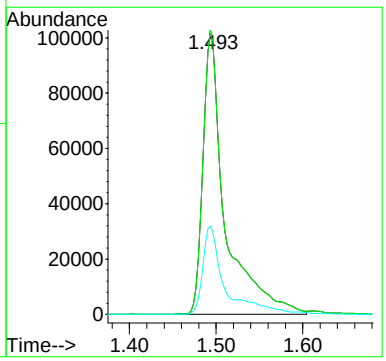


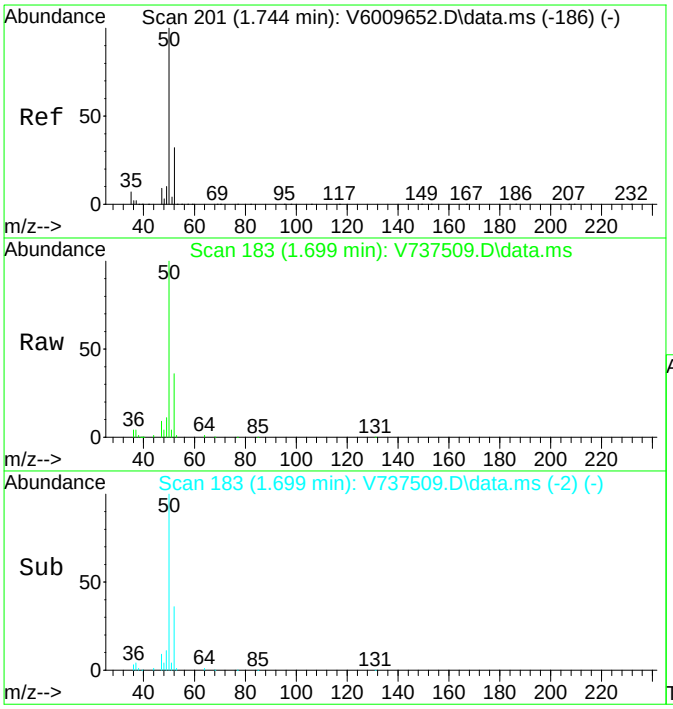


#2
Dichlorodifluoromethane
Concen: 20.16 ppb
RT: 1.493 min Scan# 109
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 85 Resp: 183236

Ion	Ratio	Lower	Upper
85	100		
85	100.0	65.0	135.0
87	23.8	21.1	43.9

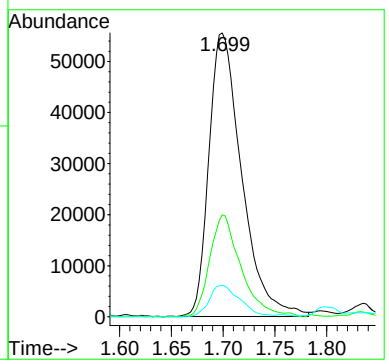


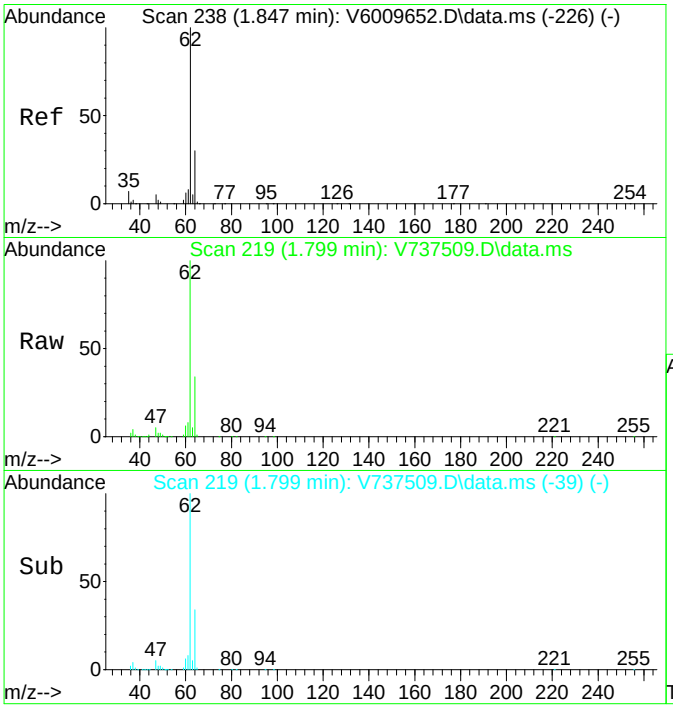


#3
Chloromethane
Concen: 13.99 ppb
RT: 1.699 min Scan# 183
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 50 Resp: 121977

Ion	Ratio	Lower	Upper
50	100		
52	34.4	20.9	43.5
49	10.5	6.6	13.6

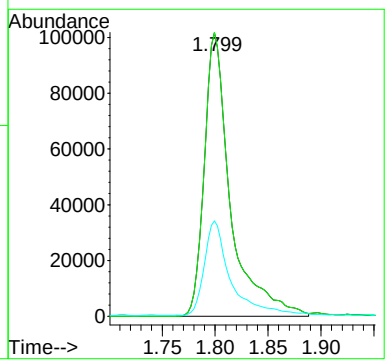


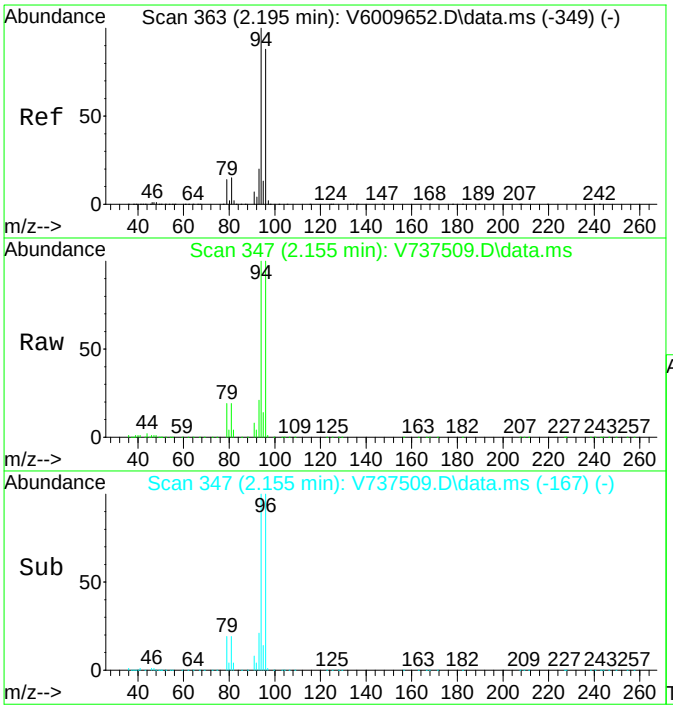


#4
Vinyl Chloride
Concen: 11.65 ppb
RT: 1.799 min Scan# 219
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 62 Resp: 175481

Ion	Ratio	Lower	Upper
62	100		
62	100.0	65.0	135.0
64	33.7	20.2	42.0

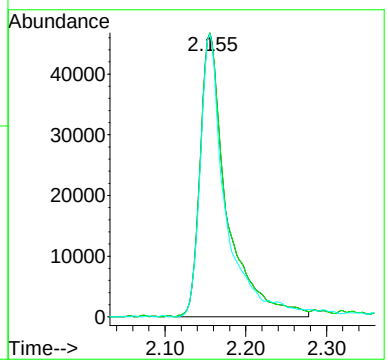


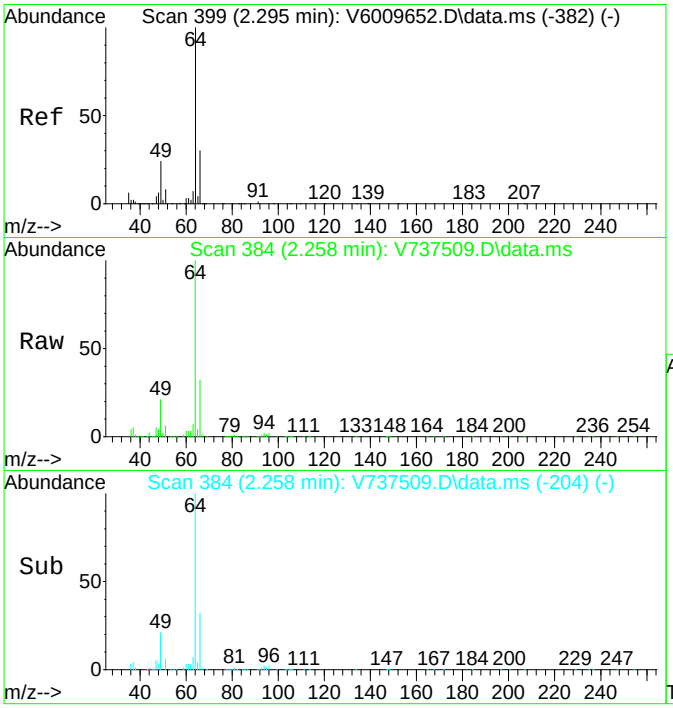


#5
Bromomethane
Concen: 16.34 ppb
RT: 2.155 min Scan# 347
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 94 Resp: 106886

Ion	Ratio	Lower	Upper
94	100		
94	100.0	50.0	150.0
96	89.4	45.9	137.6

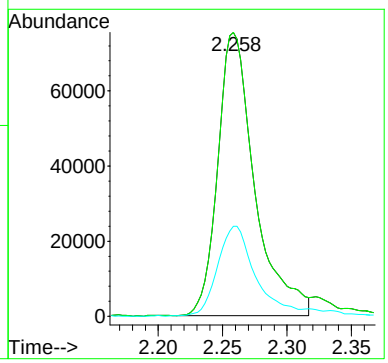


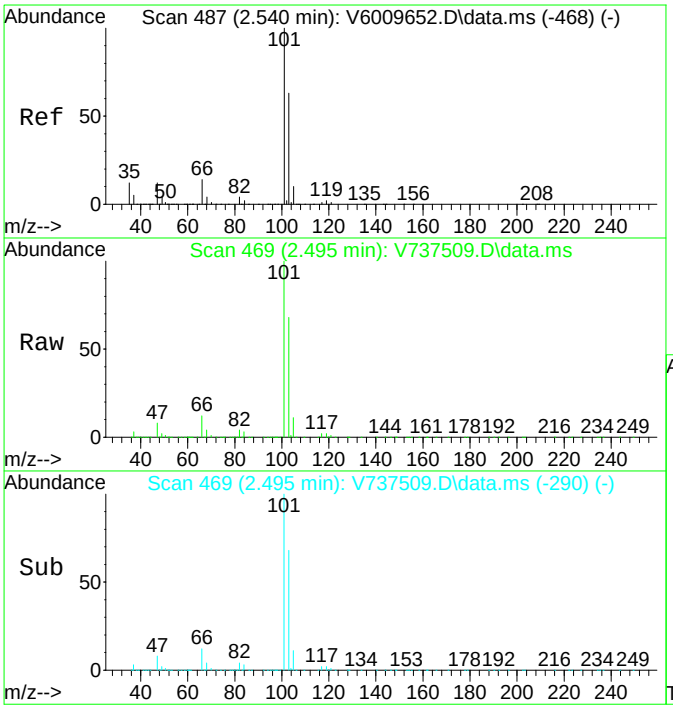


#6
Chloroethane
Concen: 11.44 ppb
RT: 2.258 min Scan# 384
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 64 Resp: 150880

Ion	Ratio	Lower	Upper
64	100		
64	100.0	65.0	135.0
66	32.7	20.6	42.8

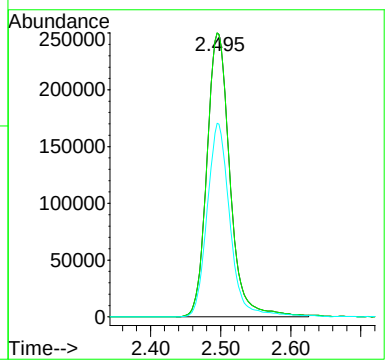


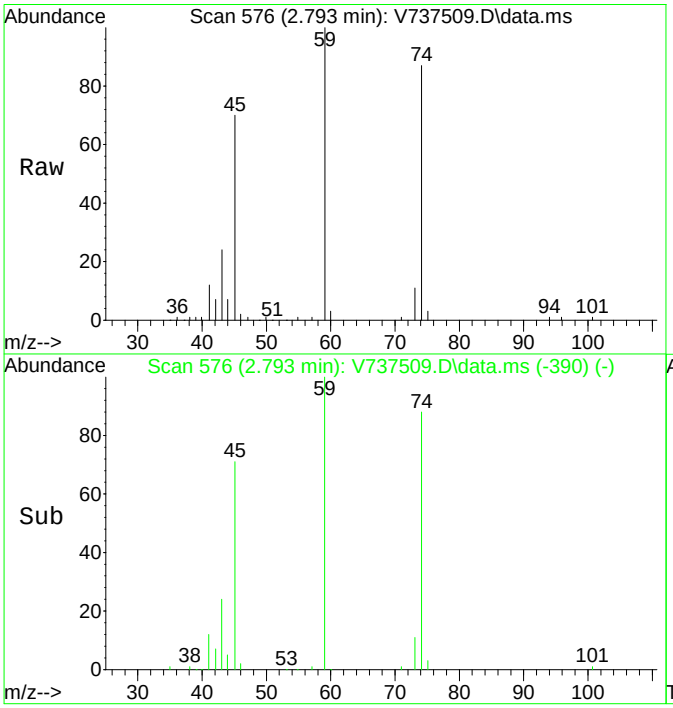


#7
Trichlorofluoromethane
Concen: 11.47 ppb
RT: 2.495 min Scan# 469
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:101 Resp: 570701

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.1	41.9	87.1

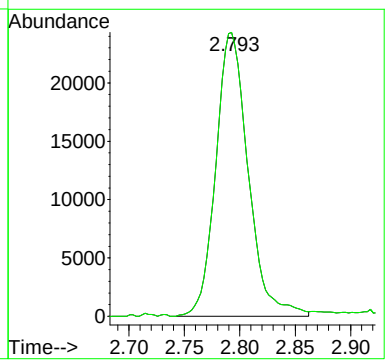


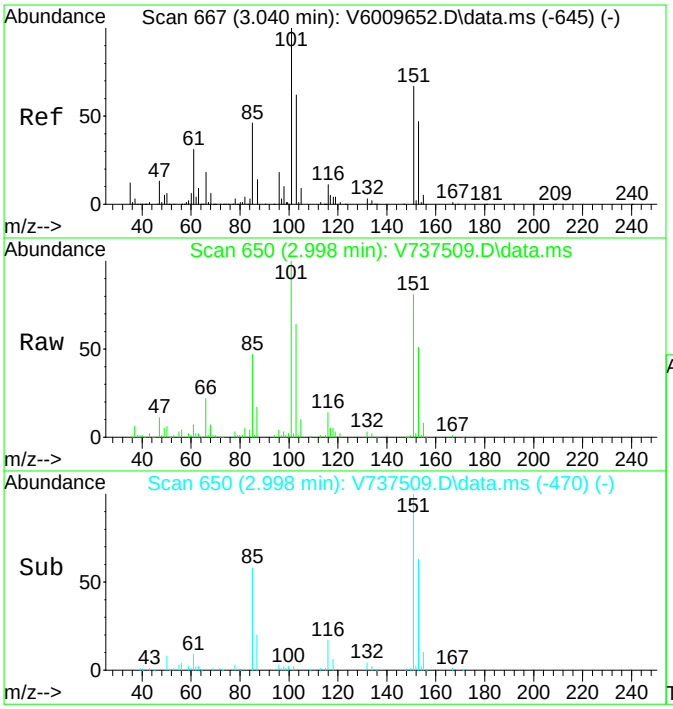


#8
Ethanol
Concen: 1594.69 ppb
RT: 2.793 min Scan# 576
Delta R.T. 0.017 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 45 Resp: 49505

Ion	Ratio	Lower	Upper
45	100		
45	100.0	31.3	93.9#

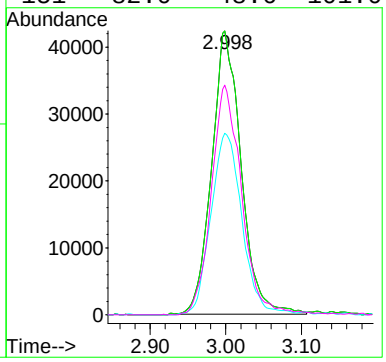


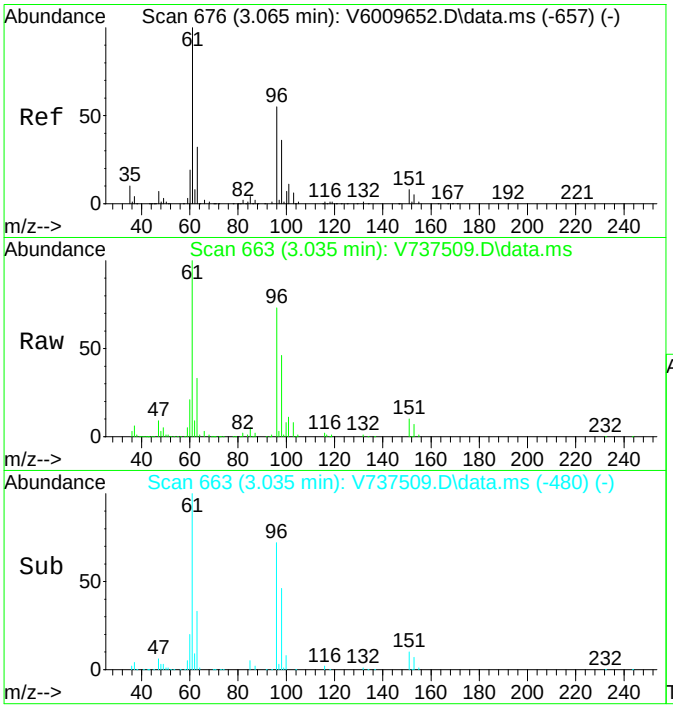


#9
Freon-113
Concen: 10.74 ppb
RT: 2.998 min Scan# 650
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:101 Resp: 114596

Ion	Ratio	Lower	Upper
101	100		
101	100.0	65.0	135.0
103	67.8	40.9	84.9
151	82.0	48.6	101.0

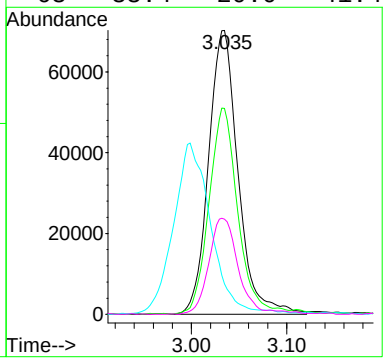


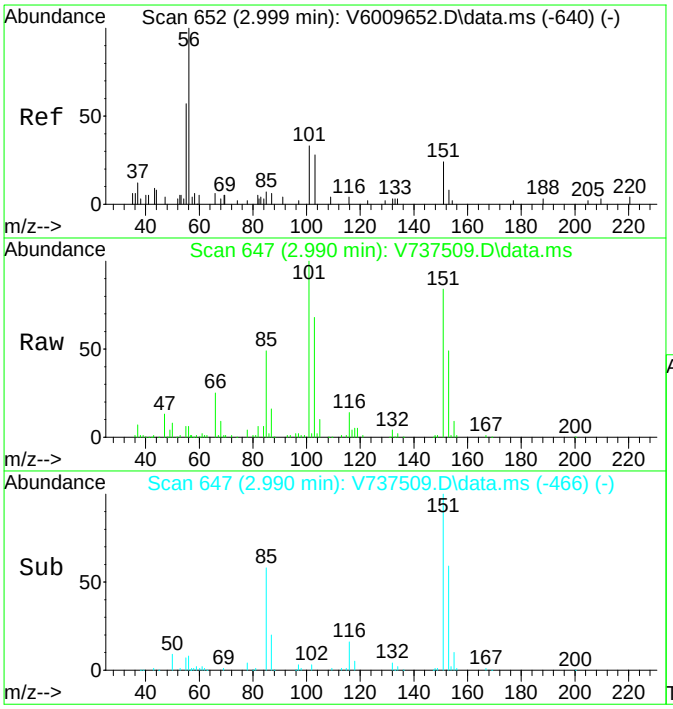


#10
1,1-Dichloroethylene
Concen: 10.66 ppb
RT: 3.035 min Scan# 663
Delta R.T. 0.008 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 61 Resp: 151256

Ion	Ratio	Lower	Upper
61	100		
96	69.8	33.9	70.3
101	75.8	32.0	66.4#
63	33.4	20.0	41.4

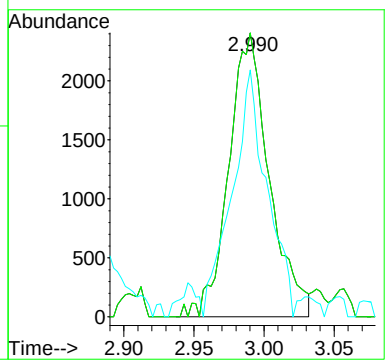


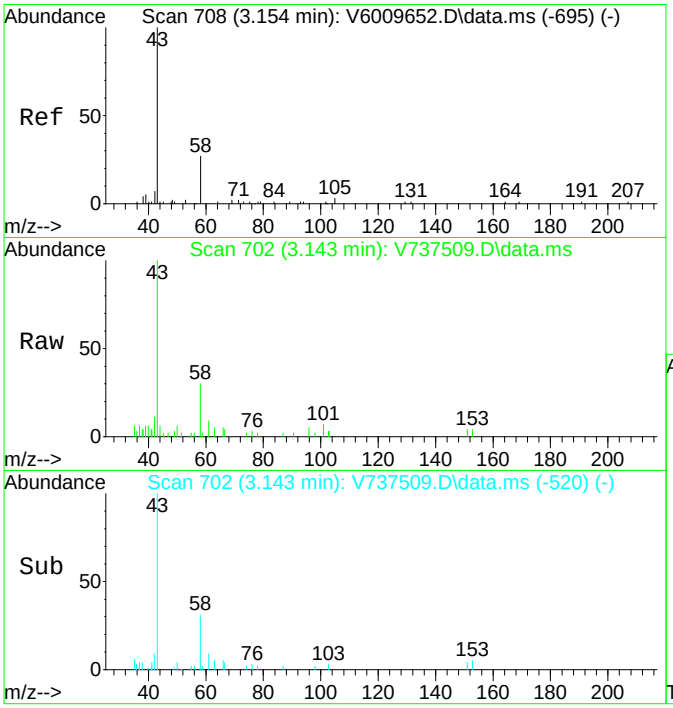


#11
Acrolein
Concen: 4.85 ppb
RT: 2.990 min Scan# 647
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 56 Resp: 4816

Ion	Ratio	Lower	Upper
56	100		
56	100.0	74.8	112.2
55	75.5	34.3	102.9

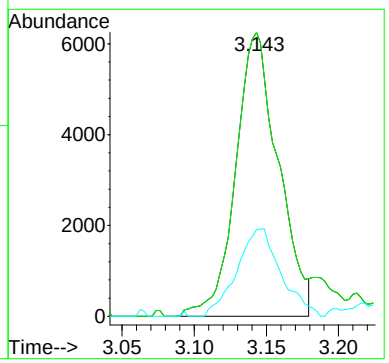


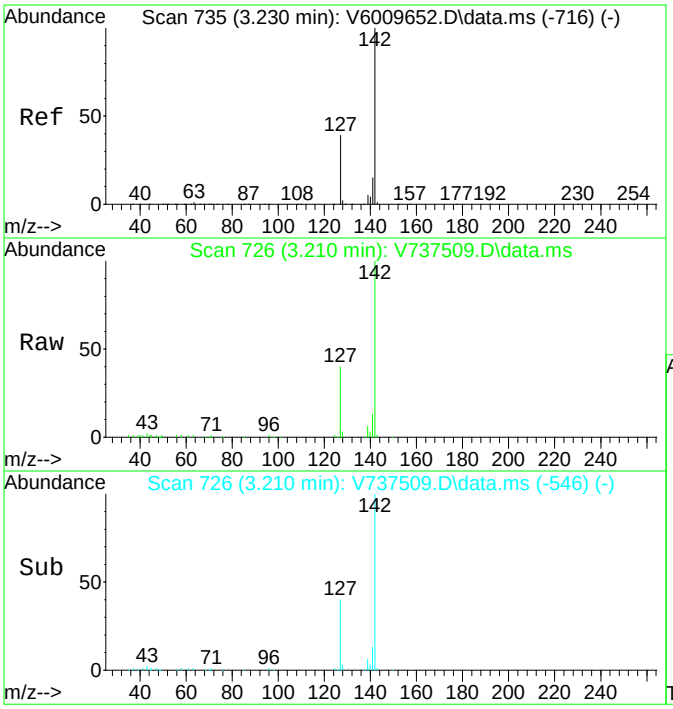


#12
Acetone
Concen: 8.29 ppb
RT: 3.143 min Scan# 702
Delta R.T. 0.005 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 43 Resp: 12859

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
58	0.0	0.0	0.0

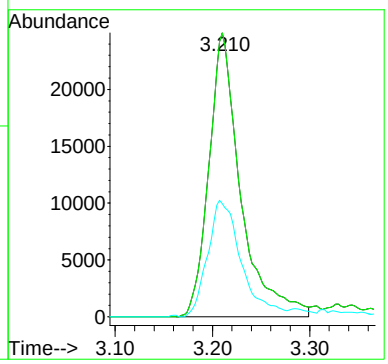


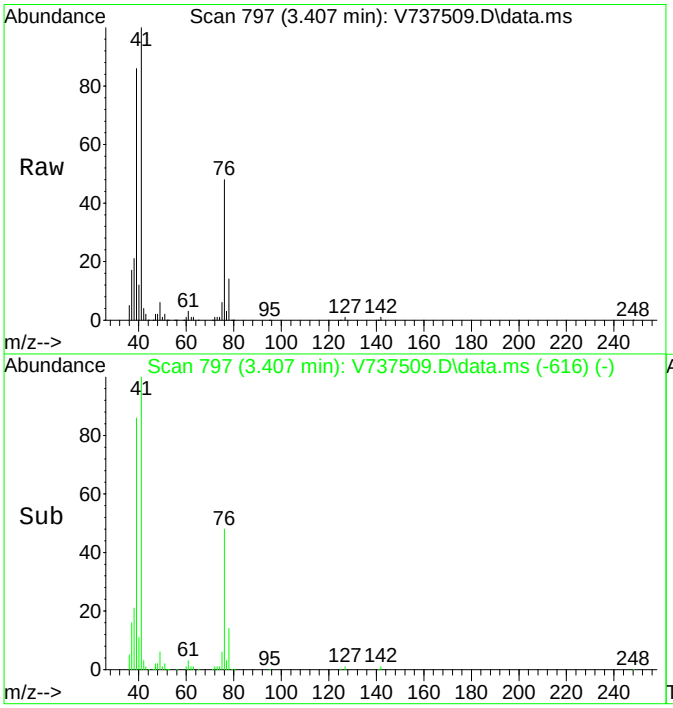


#13
Iodomethane
Concen: 22.40 ppb
RT: 3.210 min Scan# 726
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:142 Resp: 56737

Ion	Ratio	Lower	Upper
142	100		
142	100.0	80.0	120.0
127	43.3	20.9	62.8

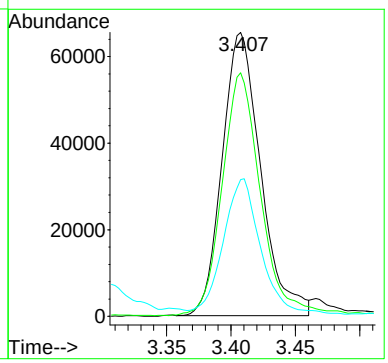


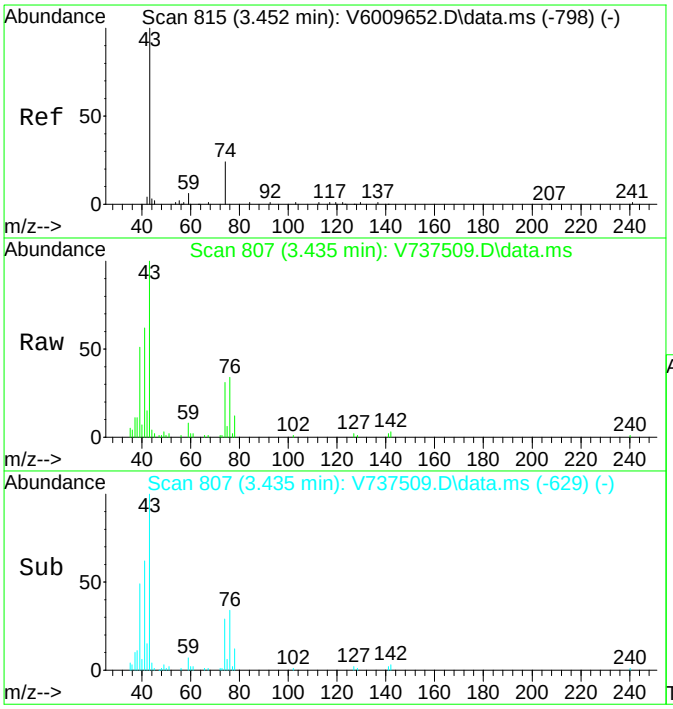


#14
Ally Chloride
Concen: 10.44 ppb
RT: 3.407 min Scan# 797
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 41 Resp: 135958

Ion	Ratio	Lower	Upper
41	100		
39	85.6	54.5	81.7#
76	46.4	24.3	36.5#

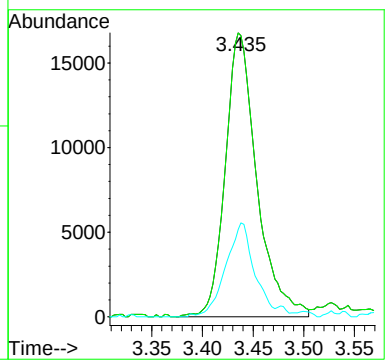


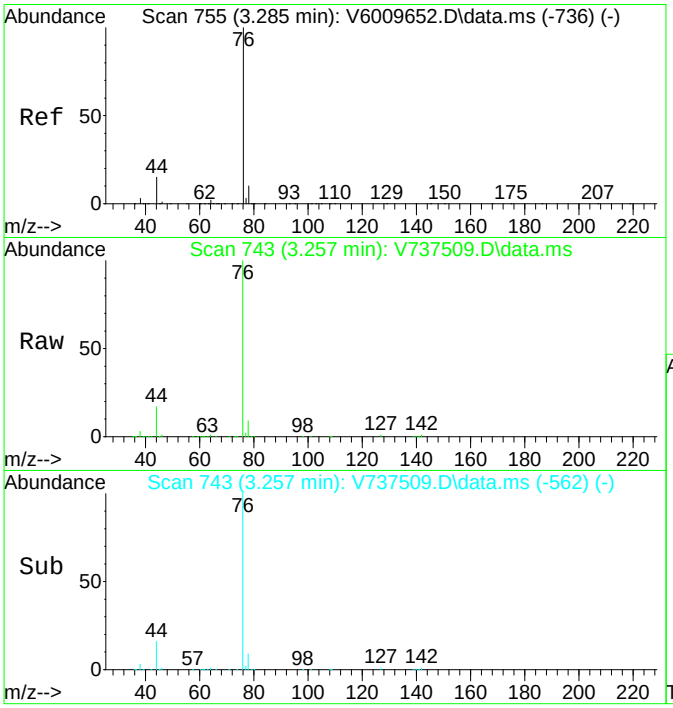


#15
Methyl Acetate
Concen: 9.57 ppb
RT: 3.435 min Scan# 807
Delta R.T. -0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 43 Resp: 36426

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
74	28.3	8.5	25.5#

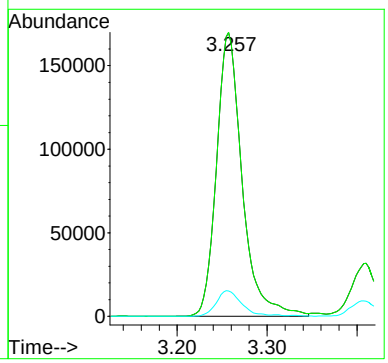


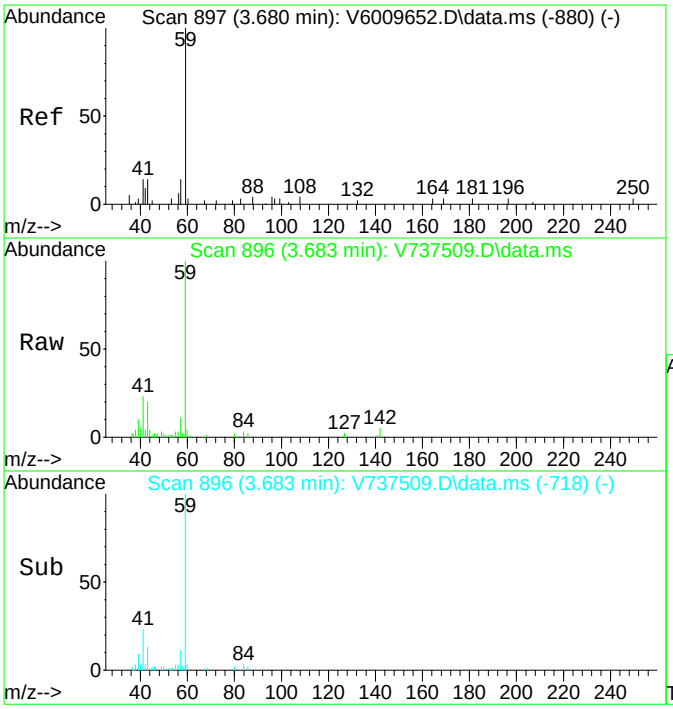


#16
Carbon disulfide
Concen: 10.79 ppb
RT: 3.257 min Scan# 743
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 76 Resp: 336545

Ion	Ratio	Lower	Upper
76	100		
76	100.0	65.0	135.0
78	8.9	4.5	13.5

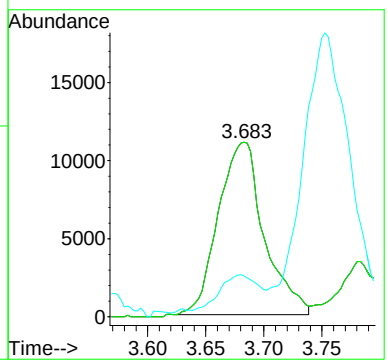


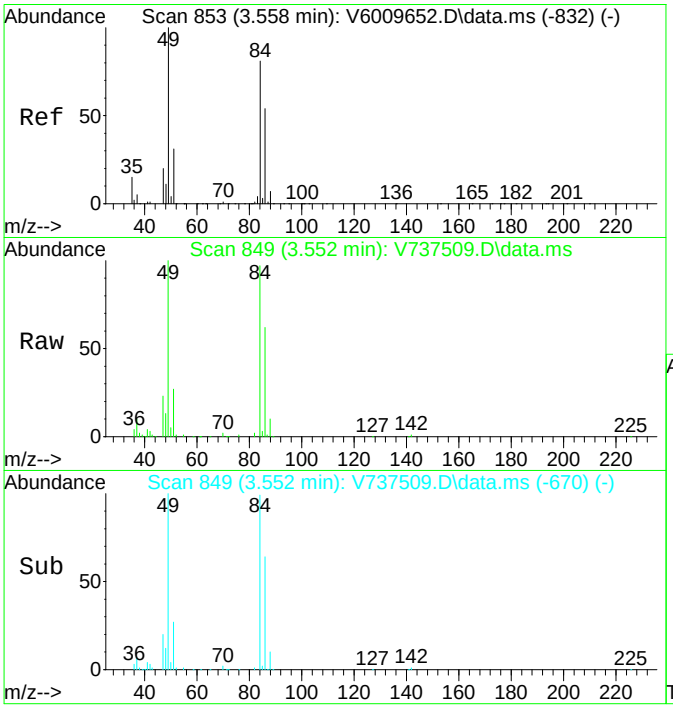


#17
tert-Butyl Alcohol (TBA)
Concen: 47.29 ppb
RT: 3.683 min Scan# 896
Delta R.T. -0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 59 Resp: 30292

Ion	Ratio	Lower	Upper
59	100		
59	100.0	65.0	135.0
41	0.0	0.0	0.0

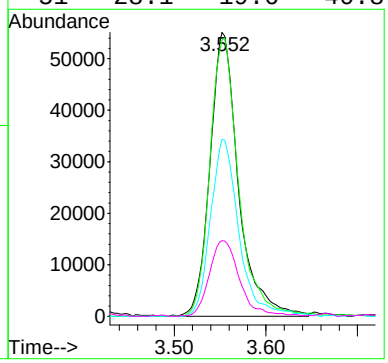


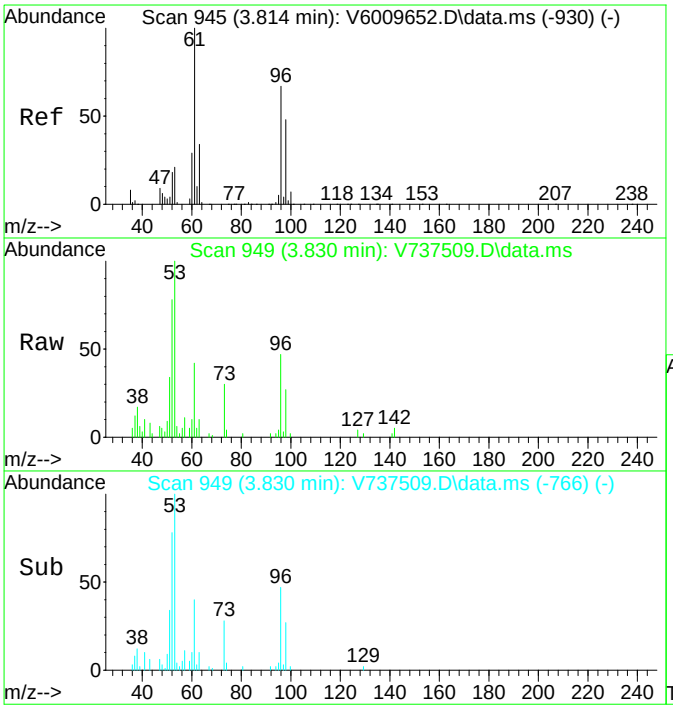


#18
Methylene Chloride
Concen: 10.98 ppb
RT: 3.552 min Scan# 849
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 49 Resp: 119327

Ion	Ratio	Lower	Upper
49	100		
84	98.1	38.0	78.8#
86	62.1	24.0	49.8#
51	28.1	19.6	40.8

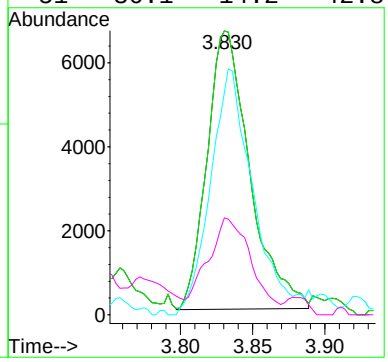


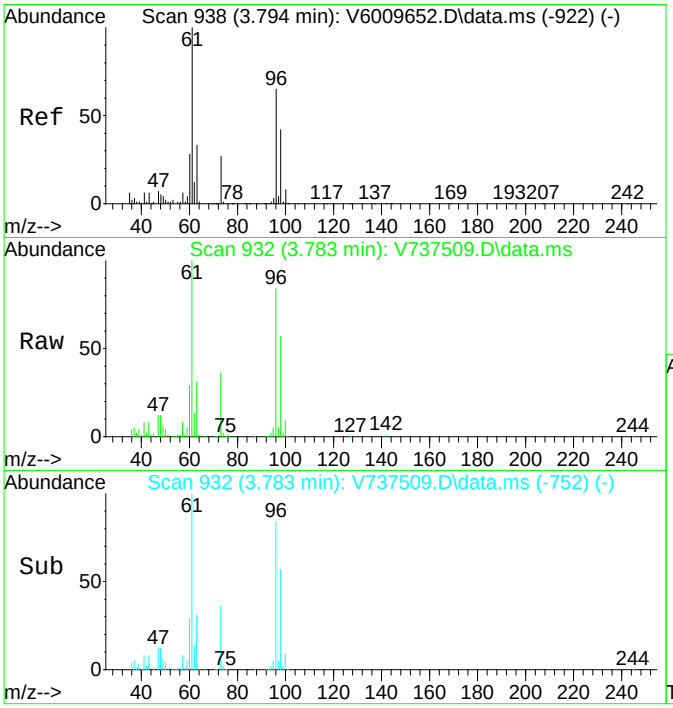


#19
Acrylonitrile
Concen: 9.30 ppb
RT: 3.830 min Scan# 949
Delta R.T. 0.008 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 53 Resp: 13676

Ion	Ratio	Lower	Upper
53	100		
53	100.0	62.2	93.4#
52	0.0	0.0	0.0
51	36.1	14.2	42.8

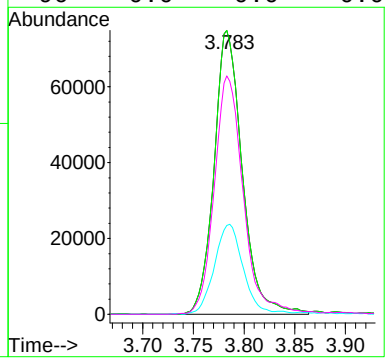


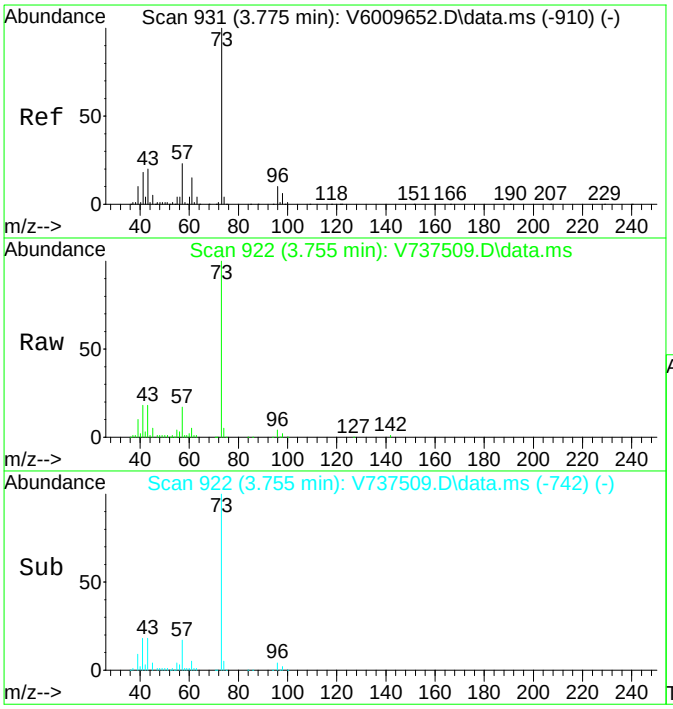


#20
trans-1,2-Dichloroethylene
Concen: 11.01 ppb
RT: 3.783 min Scan# 932
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 61 Resp: 145138

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
63	0.0	0.0	0.0
96	0.0	0.0	0.0

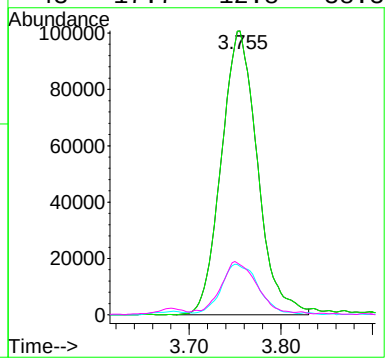


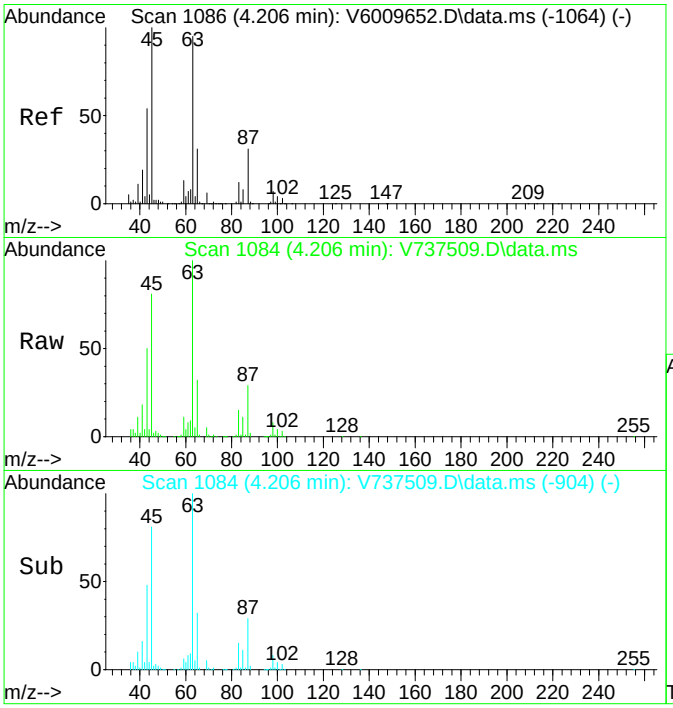


#21
tert-Butyl Methyl Ether (MTBE)
Concen: 10.35 ppb
RT: 3.755 min Scan# 922
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 73 Resp: 275882

Ion	Ratio	Lower	Upper
73	100		
73	100.0	80.0	120.0
57	18.3	13.2	39.5
43	17.7	12.8	38.3

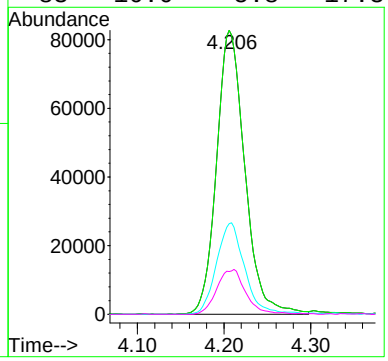


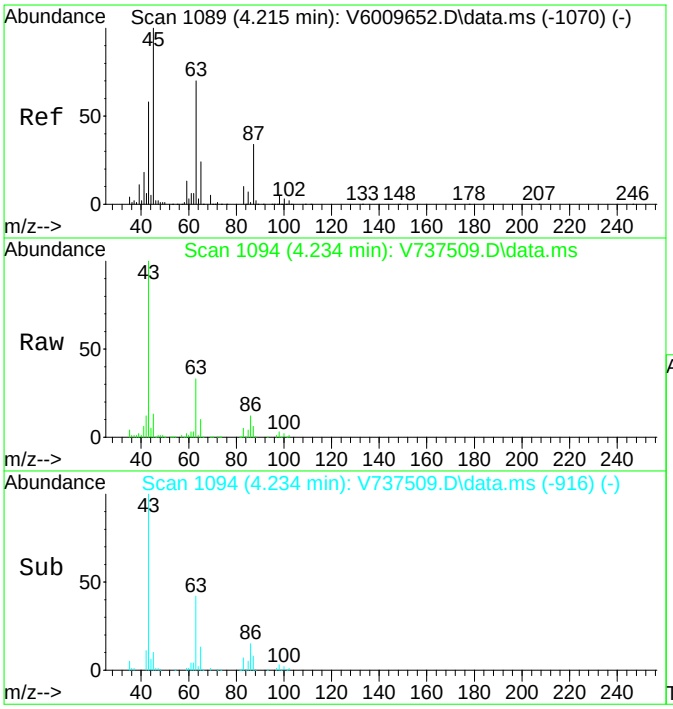


#22
1,1-Dichloroethane
Concen: 9.87 ppb
RT: 4.206 min Scan# 1084
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 63 Resp: 187765

Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
65	32.2	19.9	41.3
83	16.0	5.8	17.3

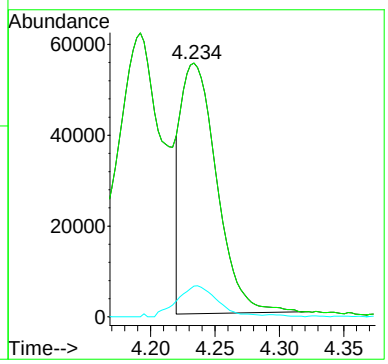


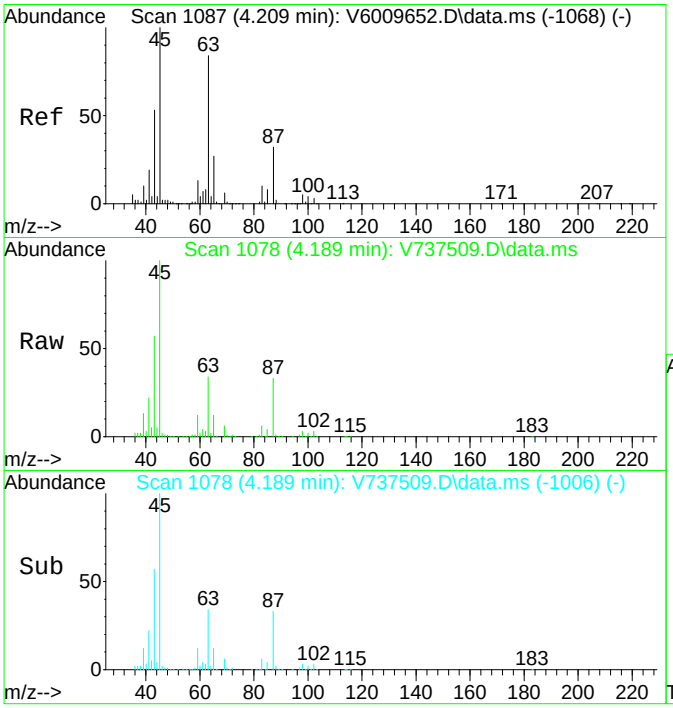


#23
Vinyl Acetate
Concen: 7.51 ppb
RT: 4.234 min Scan# 1094
Delta R.T. -0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 43 Resp: 106760

Ion	Ratio	Lower	Upper
43	100		
43	100.0	80.0	120.0
86	13.9	0.0	0.0#

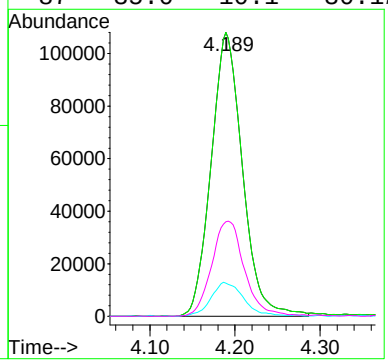


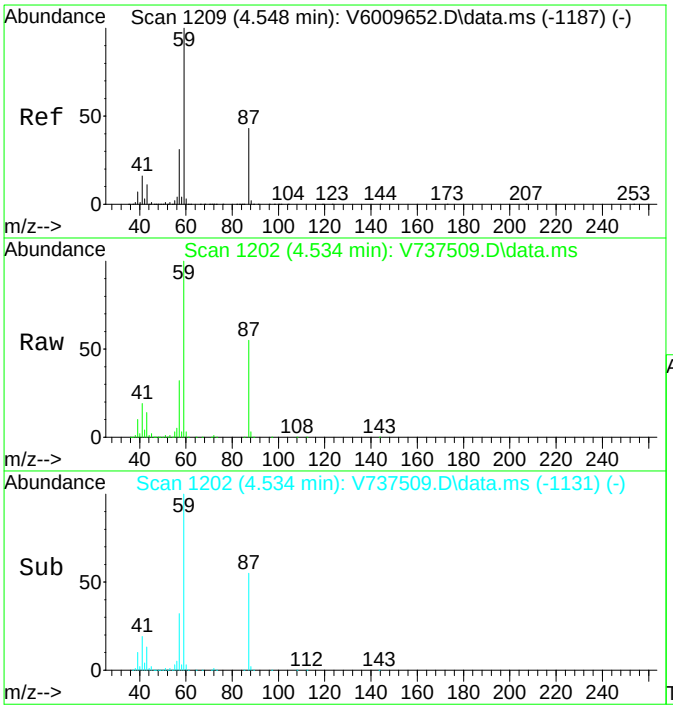


#24
Diisopropyl ether (DIPE)
Concen: 10.11 ppb
RT: 4.189 min Scan# 1078
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 45 Resp: 276822

Ion	Ratio	Lower	Upper
45	100		
45	100.0	80.0	120.0
59	0.0	5.1	15.3#
87	35.0	10.1	30.1#

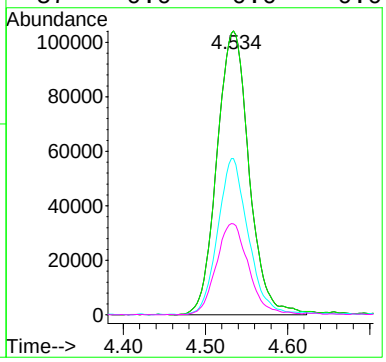


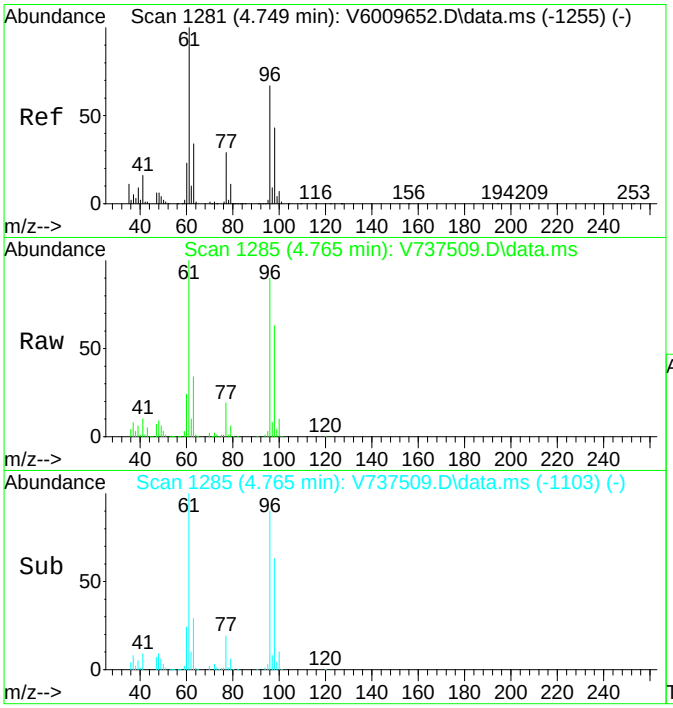


#25
Ethyl-tert-Butyl ether (ETBE)
Concen: 10.92 ppb
RT: 4.534 min Scan# 1202
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 59 Resp: 283401

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
87	0.0	17.0	51.0#
57	0.0	0.0	0.0

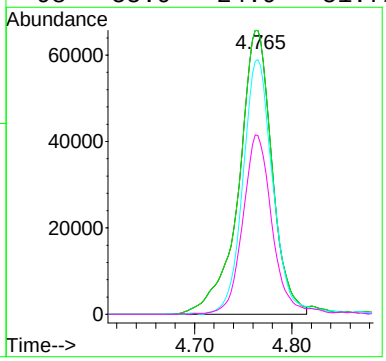


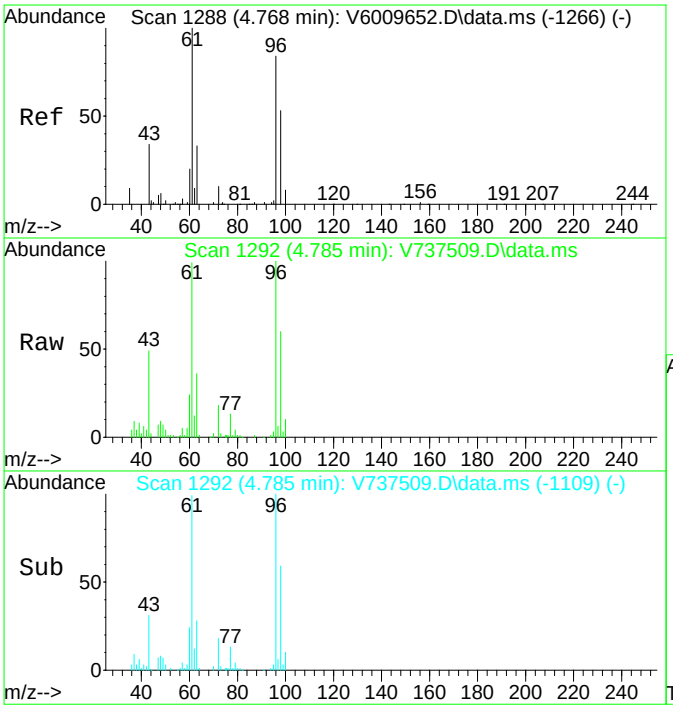


#26
cis-1,2-Dichloroethylene
Concen: 10.20 ppb
RT: 4.765 min Scan# 1285
Delta R.T. 0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 61 Resp: 156791

Ion	Ratio	Lower	Upper
61	100		
61	100.0	65.0	135.0
96	0.0	37.8	78.4#
98	55.9	24.9	51.7#

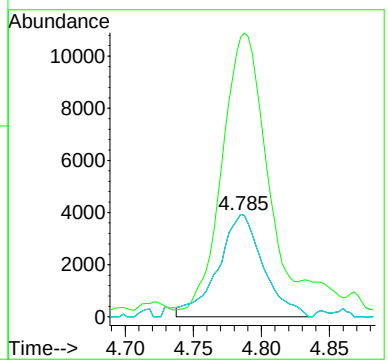


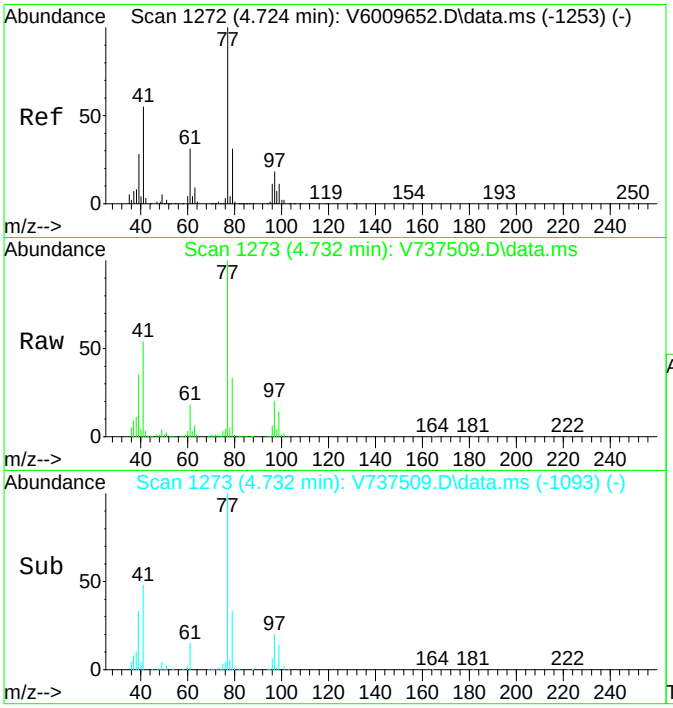


#27
2-Butanone
Concen: 9.50 ppb
RT: 4.785 min Scan# 1292
Delta R.T. 0.009 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 72 Resp: 9057

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	0.0
72	100.0	50.0	150.0

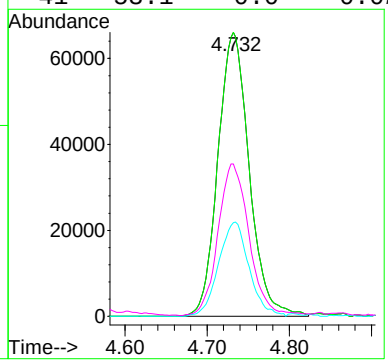


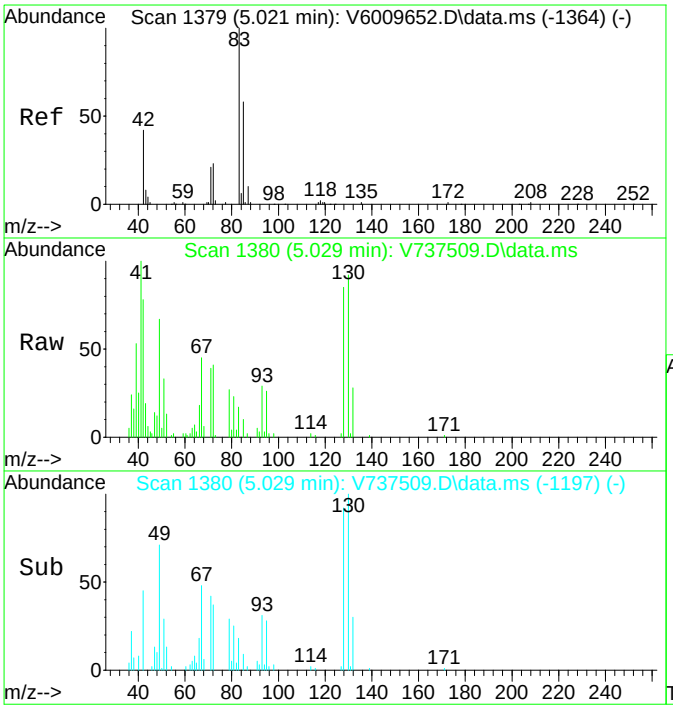


#28
2,2-Dichloropropane
Concen: 10.88 ppb
RT: 4.732 min Scan# 1273
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 77 Resp: 174767

Ion	Ratio	Lower	Upper
77	100		
77	100.0	80.0	120.0
79	0.0	20.9	43.5#
41	53.1	0.0	0.0#

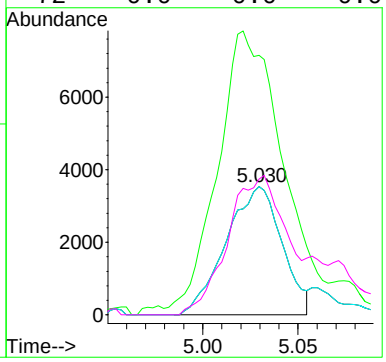


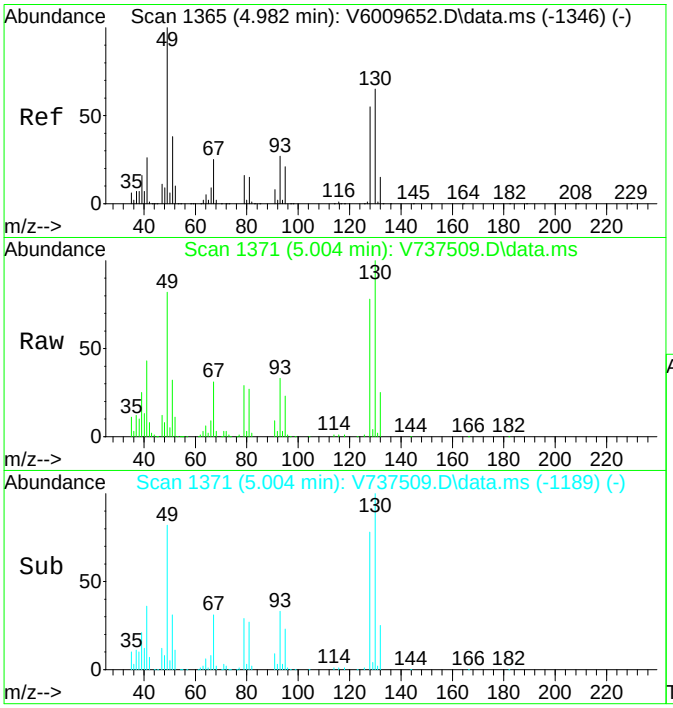


#29
Tetrahydrofuran
Concen: 7.88 ppb
RT: 5.029 min Scan# 1380
Delta R.T. 0.008 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 71 Resp: 7229

Ion	Ratio	Lower	Upper
71	100		
42	260.7	279.2	418.8#
71	100.0	50.0	150.0
72	0.0	0.0	0.0

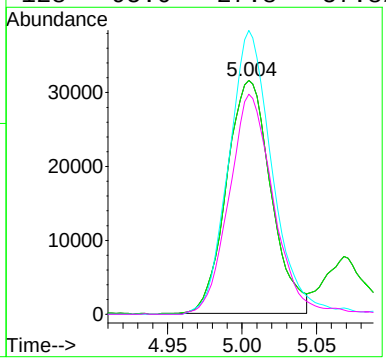


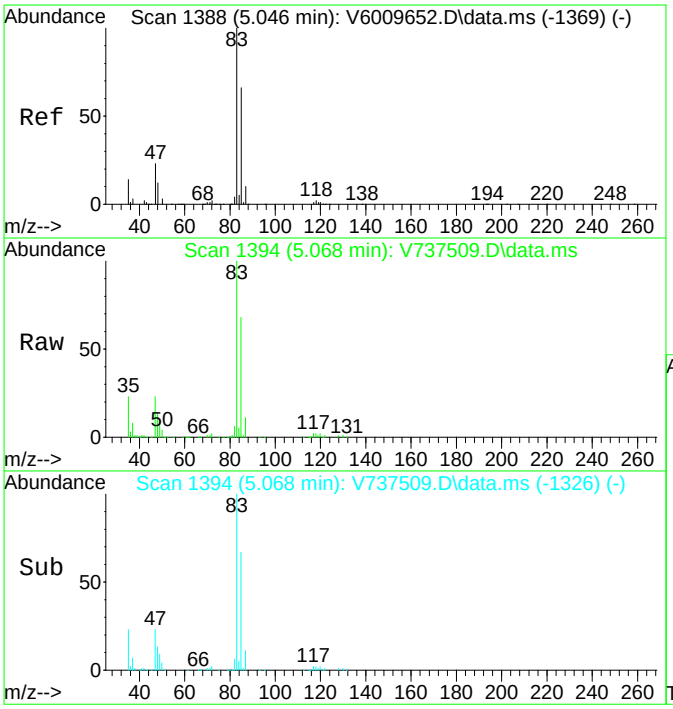


#30
Bromochloromethane
Concen: 9.53 ppb
RT: 5.004 min Scan# 1371
Delta R.T. 0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 49 Resp: 65302

Ion	Ratio	Lower	Upper
49	100		
49	100.0	65.0	135.0
130	119.1	35.7	74.1#
128	95.0	27.8	57.8#

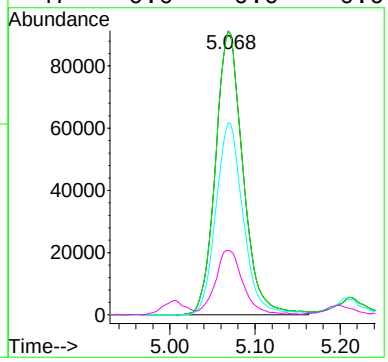


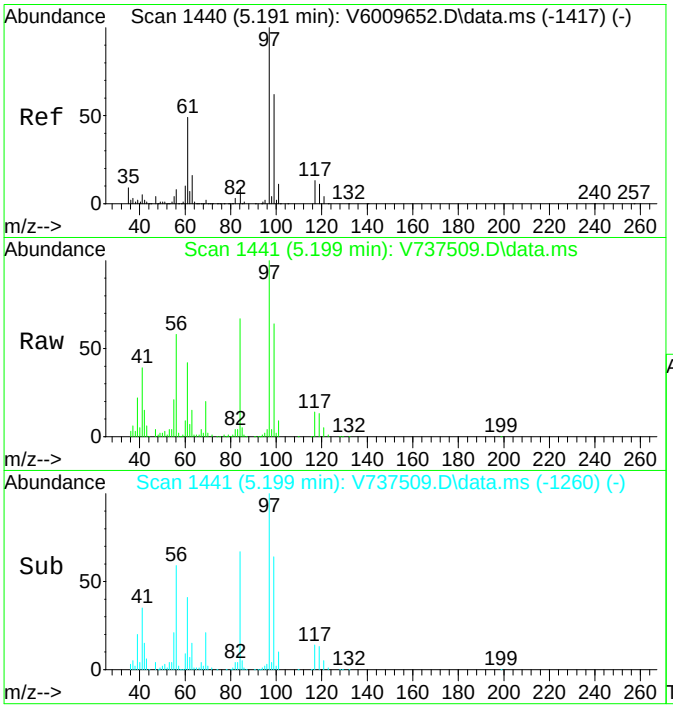


#31
Chloroform
Concen: 9.98 ppb
RT: 5.068 min Scan# 1394
Delta R.T. -0.011 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 83 Resp: 204949

Ion	Ratio	Lower	Upper
83	100		
83	100.0	65.0	135.0
85	67.2	41.8	86.8
47	0.0	0.0	0.0

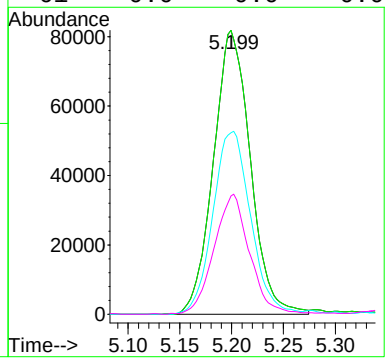


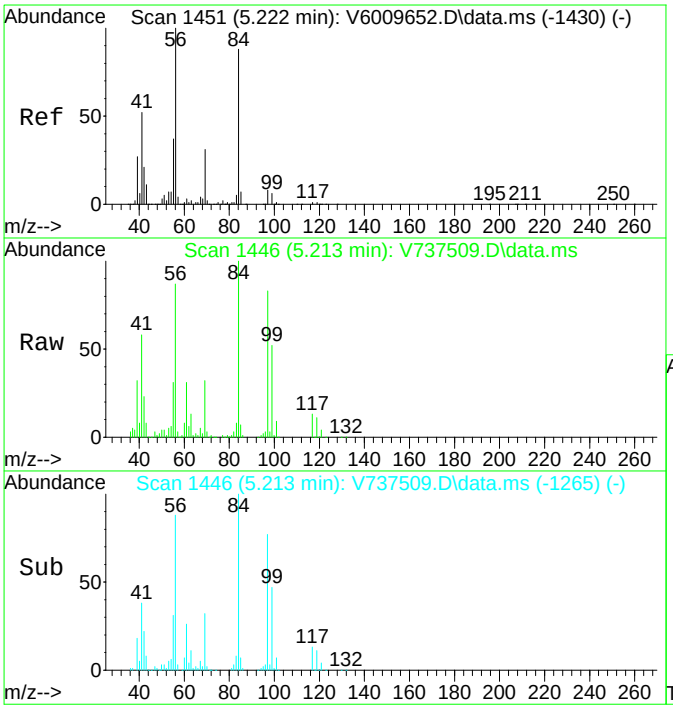


#32
1,1,1-Trichloroethane
Concen: 10.74 ppb
RT: 5.199 min Scan# 1441
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 97 Resp: 203148

Ion	Ratio	Lower	Upper
97	100		
97	100.0	65.0	135.0
99	0.0	42.3	87.9#
61	0.0	0.0	0.0

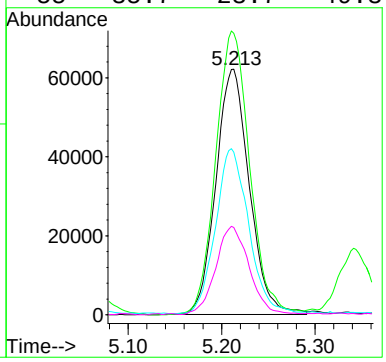


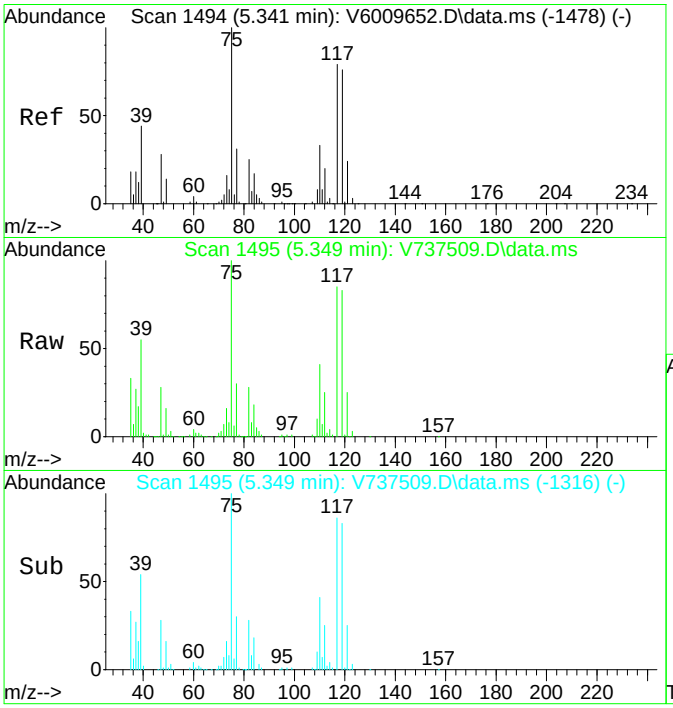


#33
Cyclohexane
Concen: 10.84 ppb
RT: 5.213 min Scan# 1446
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 56 Resp: 154562

Ion	Ratio	Lower	Upper
56	100		
84	117.5	44.2	91.8#
41	66.4	37.9	78.7
55	35.7	23.7	49.3

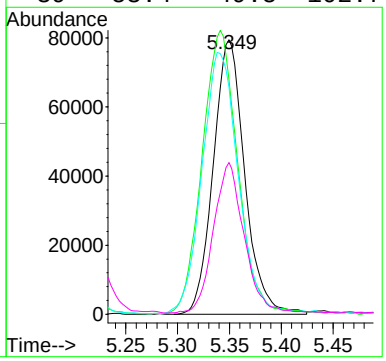


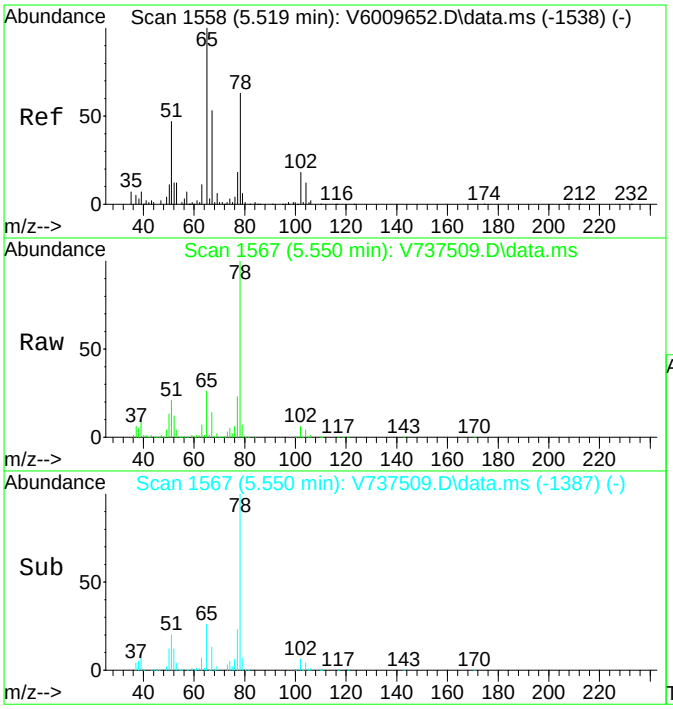


#34
1,1-Dichloropropylene
Concen: 10.08 ppb
RT: 5.349 min Scan# 1495
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 75 Resp: 168059

Ion	Ratio	Lower	Upper
75	100		
117	114.9	65.3	135.5
119	109.1	62.6	130.0
39	53.4	49.5	102.7

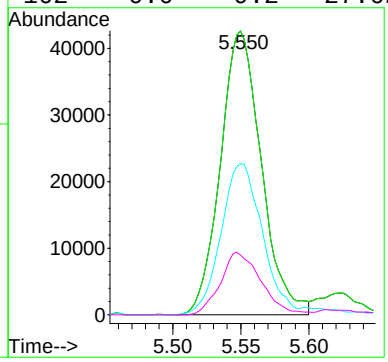


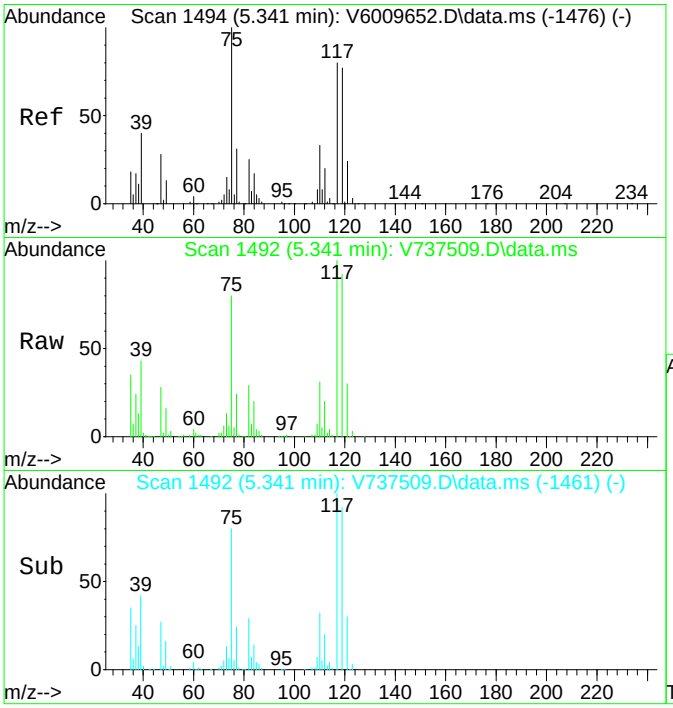


#35
d4-1,2-Dichloroethane (SURR)
Concen: 9.83 ppb
RT: 5.550 min Scan# 1567
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 65 Resp: 89022

Ion	Ratio	Lower	Upper
65	100		
65	100.0	65.0	135.0
67	53.5	33.0	68.6
102	0.0	9.2	27.6#

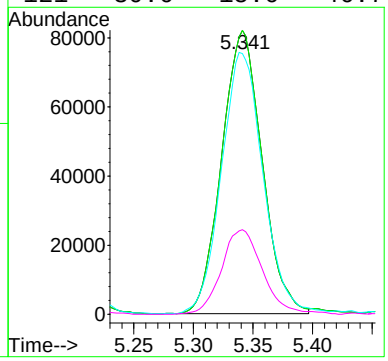


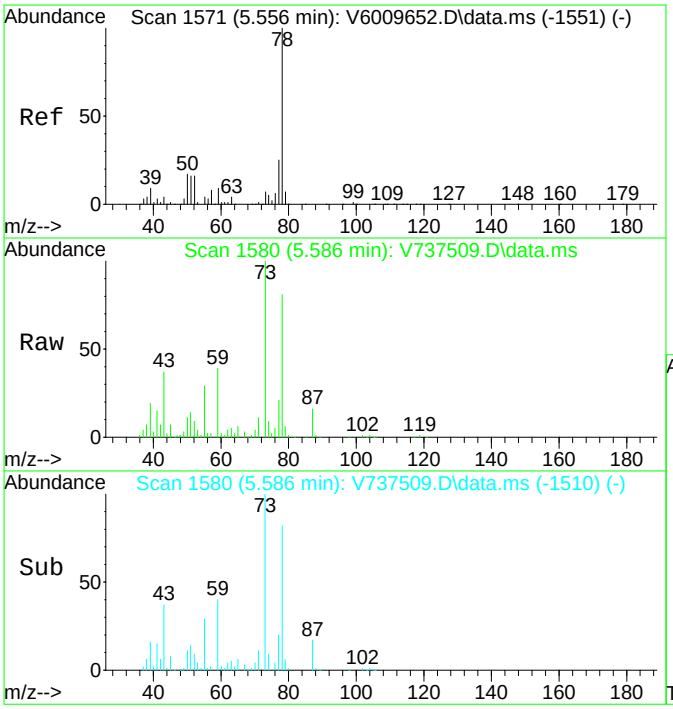


#36
Carbon Tetrachloride
Concen: 10.19 ppb
RT: 5.341 min Scan# 1492
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:117 Resp: 193144

Ion	Ratio	Lower	Upper
117	100		
117	100.0	80.0	120.0
119	0.0	62.3	129.5#
121	30.6	15.6	46.7

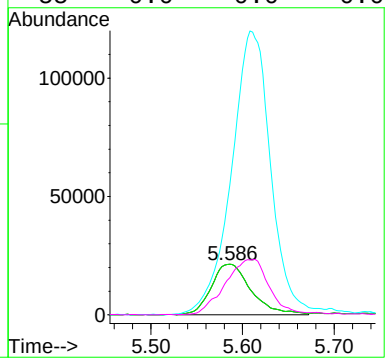


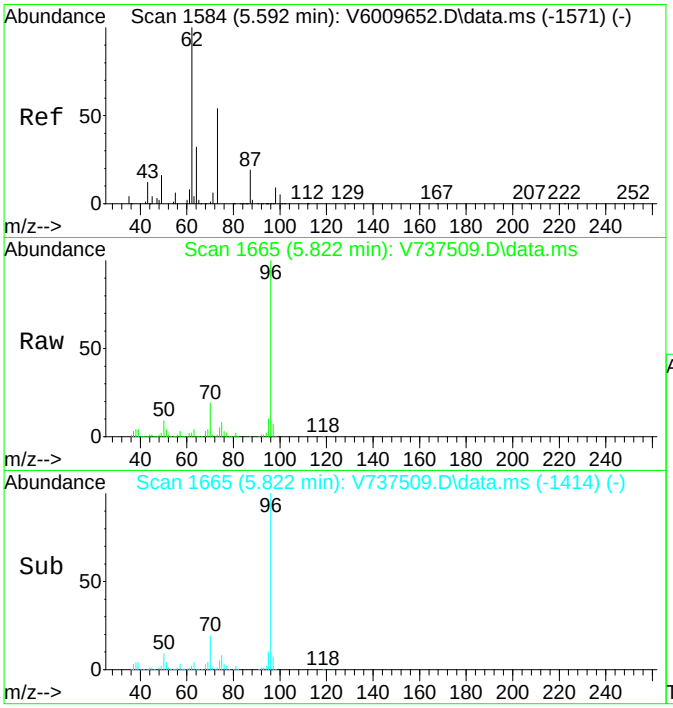


#37
tert-Amyl alcohol (TAA)
Concen: 98.03 ppb
RT: 5.586 min Scan# 1580
Delta R.T. -0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 59 Resp: 64963

Ion	Ratio	Lower	Upper
59	100		
59	100.0	80.0	120.0
73	0.0	22.9	68.5#
55	0.0	0.0	0.0

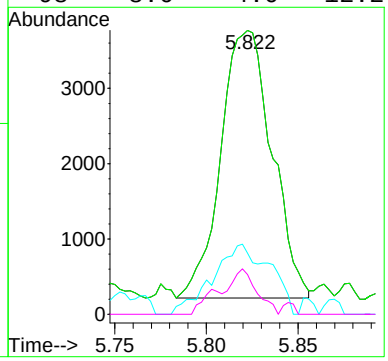


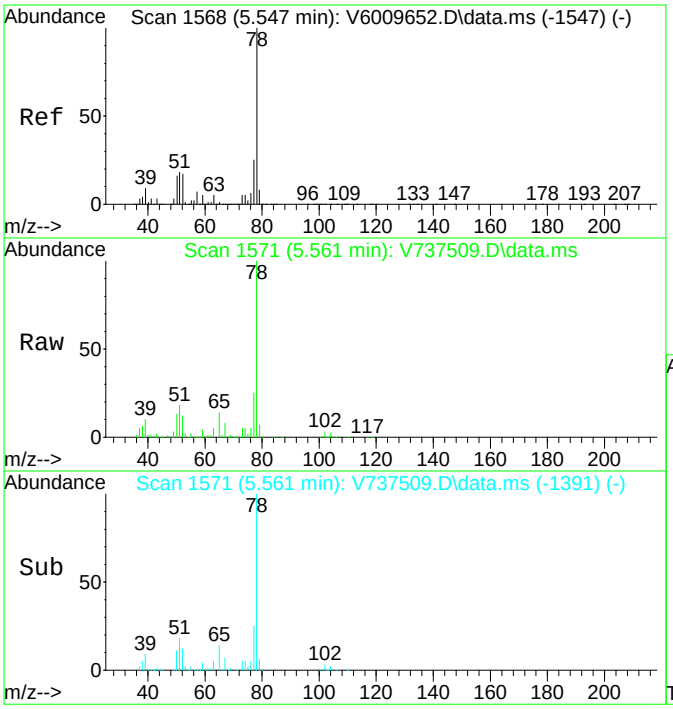


#38
1,2-Dichloroethane
Concen: 0.59 ppb
RT: 5.822 min Scan# 1665
Delta R.T. 0.197 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 62 Resp: 6887

Ion	Ratio	Lower	Upper
62	100		
62	100.0	80.0	120.0
64	21.4	15.2	45.6
98	8.6	4.0	12.2

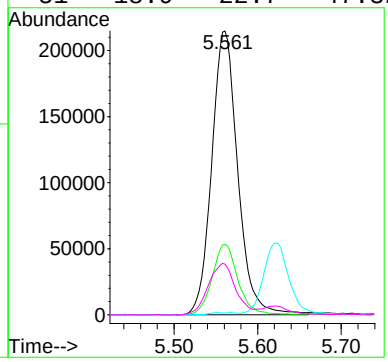


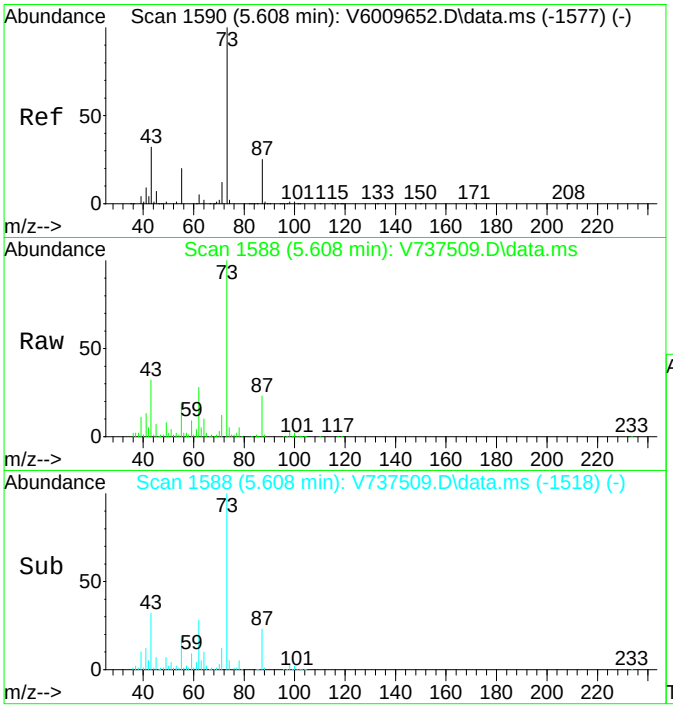


#39
Benzene
Concen: 10.31 ppb
RT: 5.561 min Scan# 1571
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 78 Resp: 464984

Ion	Ratio	Lower	Upper
78	100		
77	24.6	14.7	30.5
62	0.0	19.2	39.8#
51	18.9	22.7	47.3#

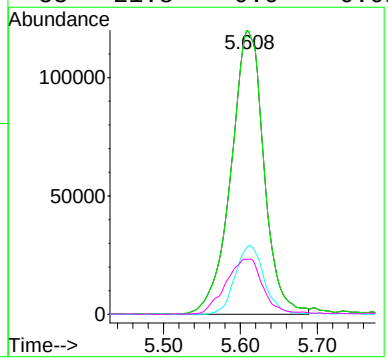


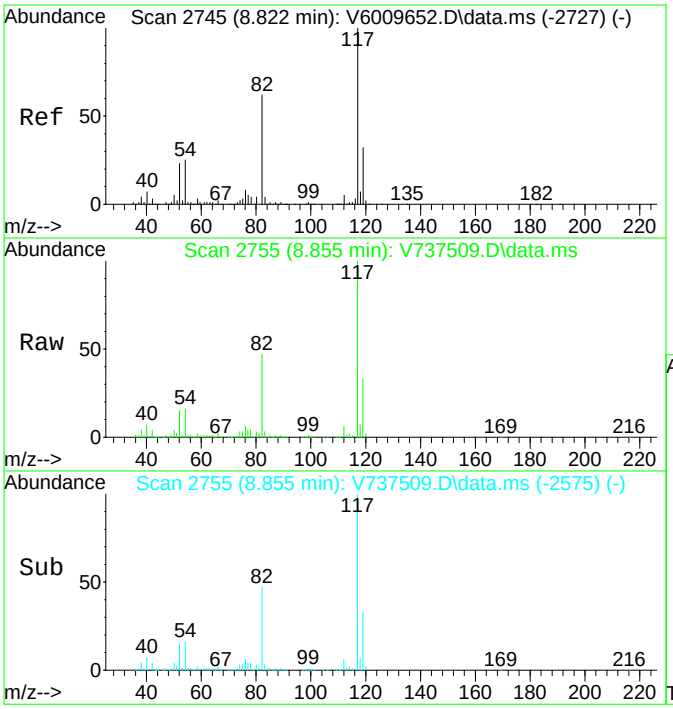


#40
tert-Amyl methyl ether (TAME)
Concen: 10.68 ppb
RT: 5.608 min Scan# 1588
Delta R.T. -0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 73 Resp: 358004

Ion	Ratio	Lower	Upper
73	100		
73	100.0	79.6	119.4
87	21.3	11.9	35.5
55	21.8	0.0	0.0#

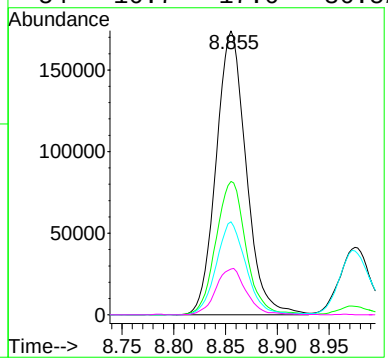


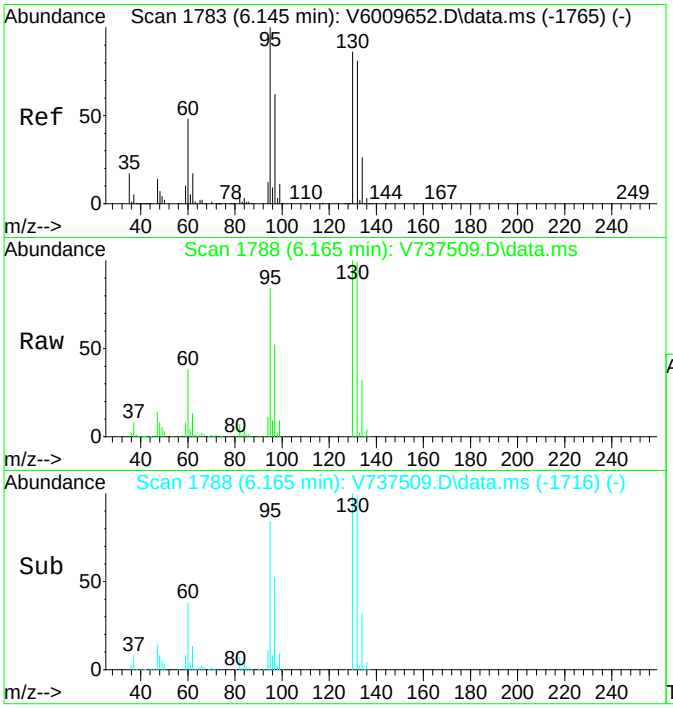


#41
CHLOROBENZENE-d5 (ISTD)
Concen: 10.00 ppb
RT: 8.855 min Scan# 2755
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:117 Resp: 350789

Ion	Ratio	Lower	Upper
117	100		
82	47.2	35.9	74.7
119	32.7	20.8	43.2
54	16.7	17.6	36.5#

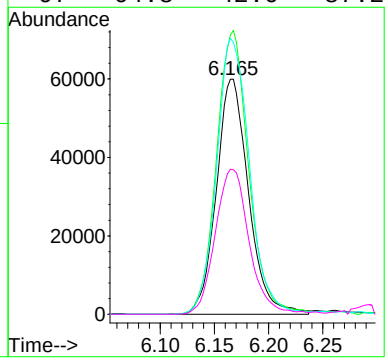


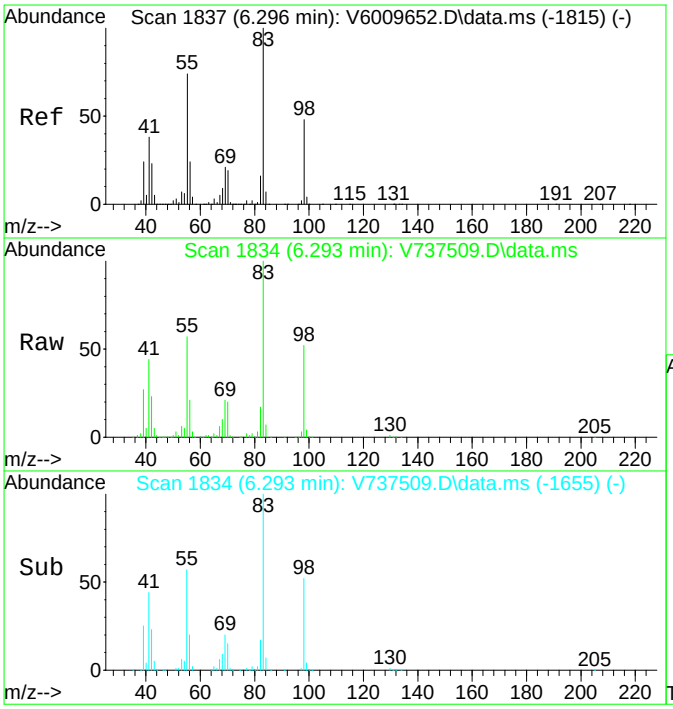


#42
Trichloroethylene
Concen: 9.91 ppb
RT: 6.165 min Scan# 1788
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 95 Resp: 124305

Ion	Ratio	Lower	Upper
95	100		
130	121.0	61.1	126.9
132	119.5	62.0	128.8
97	64.8	42.0	87.2

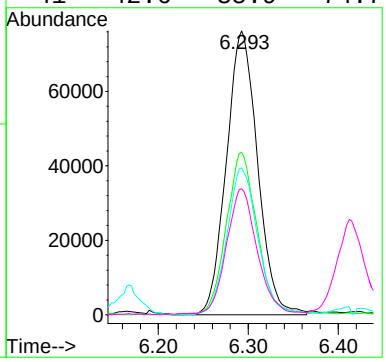


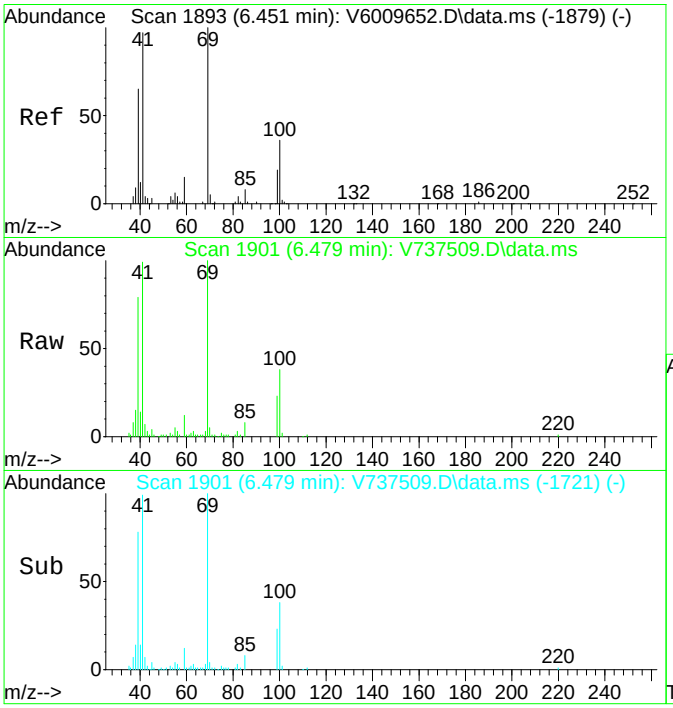


#43
Methyl Cyclohexane
Concen: 10.66 ppb
RT: 6.293 min Scan# 1834
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 83 Resp: 184344

Ion	Ratio	Lower	Upper
83	100		
55	56.5	65.5	136.1#
98	51.5	31.0	64.4
41	42.6	35.9	74.7

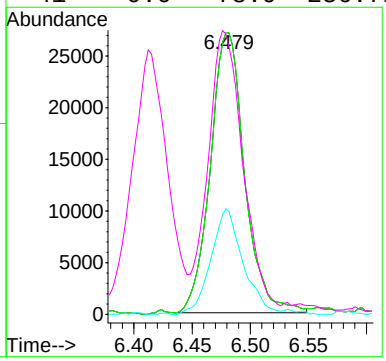


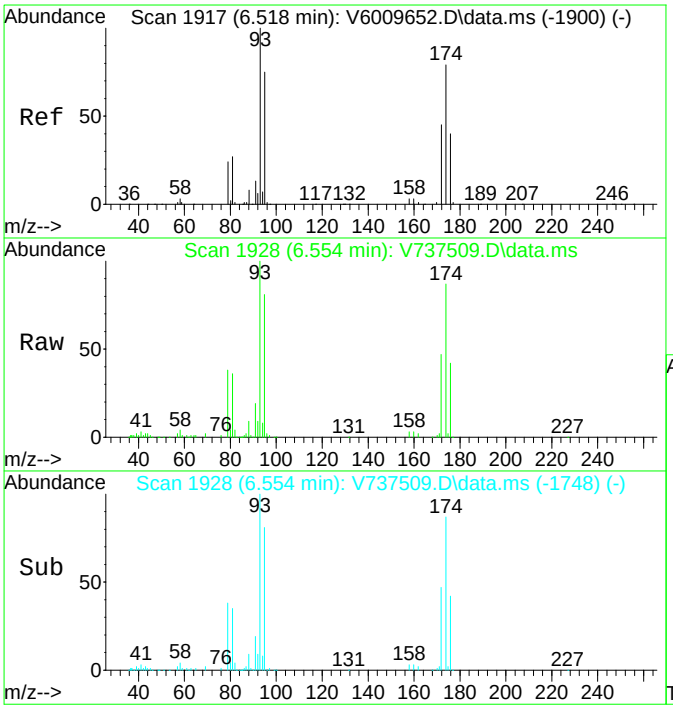


#44
Methyl Methacrylate
Concen: 10.06 ppb
RT: 6.479 min Scan# 1901
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 69 Resp: 55596

Ion	Ratio	Lower	Upper
69	100		
69	100.0	80.0	120.0
100	35.2	0.0	0.0#
41	0.0	78.9	236.7#

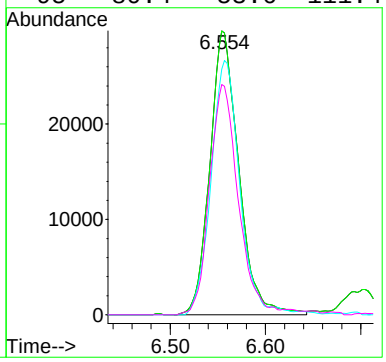


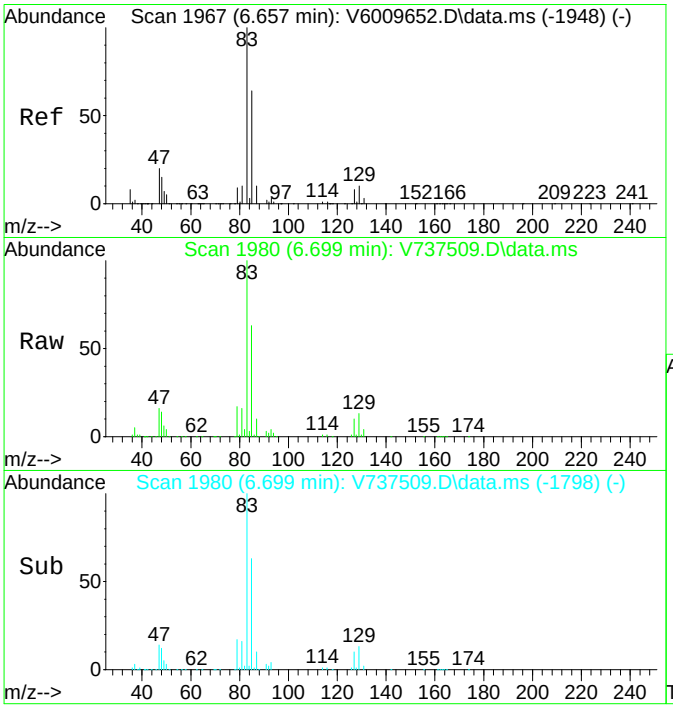


#45
Dibromomethane
Concen: 9.74 ppb
RT: 6.554 min Scan# 1928
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 93 Resp: 62680

Ion	Ratio	Lower	Upper
93	100		
93	100.0	65.0	135.0
174	88.7	60.5	125.6
95	80.4	53.6	111.4

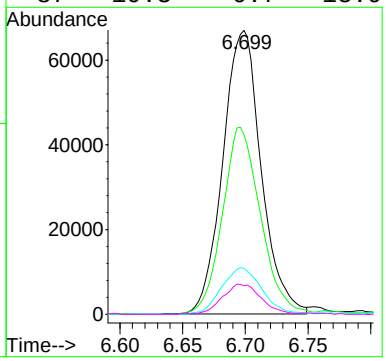


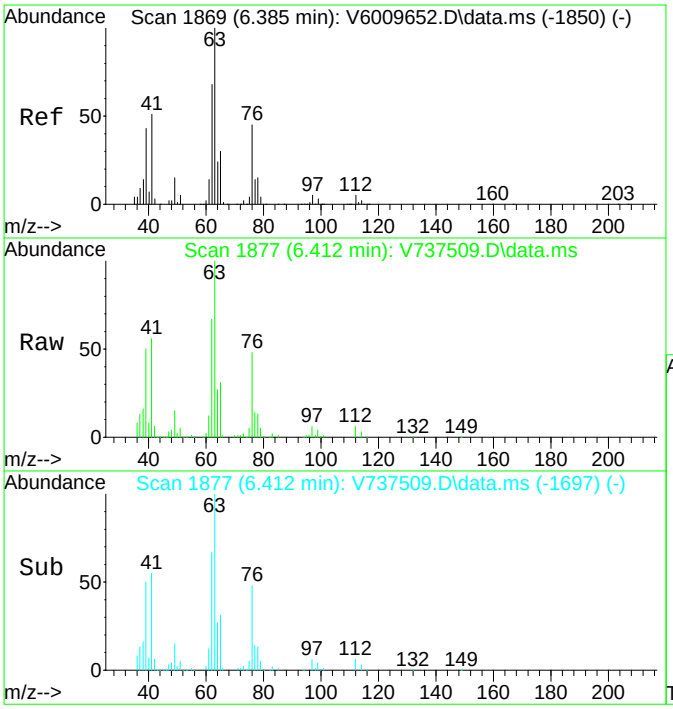


#46
Bromodichloromethane
Concen: 9.97 ppb
RT: 6.699 min Scan# 1980
Delta R.T. 0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 83 Resp: 142362

Ion	Ratio	Lower	Upper
83	100		
85	65.4	41.0	85.0
47	17.3	15.9	33.1
87	10.3	6.7	13.9

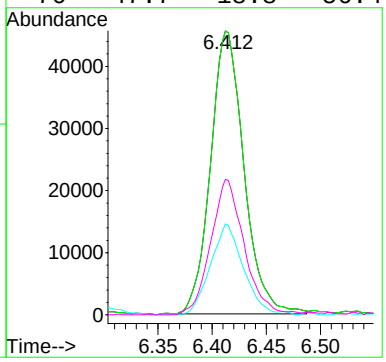


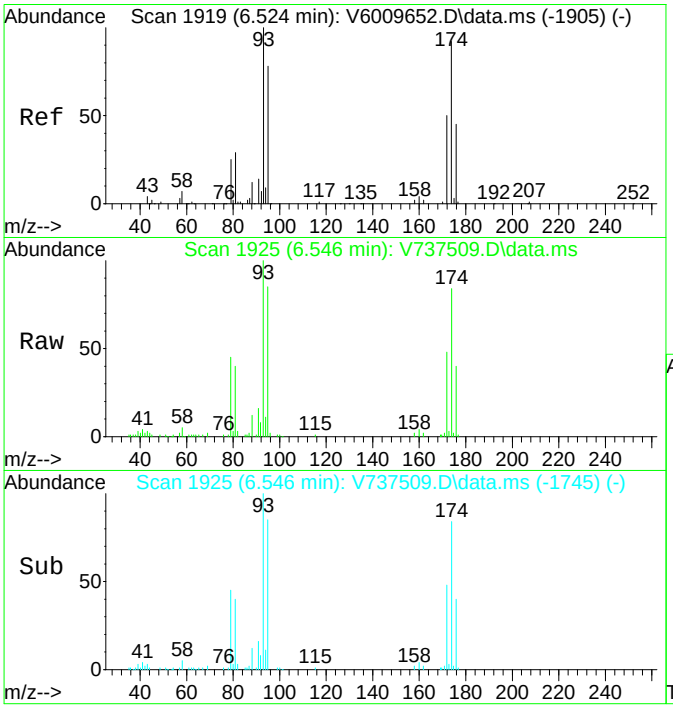


#47
1,2-Dichloropropane
Concen: 9.69 ppb
RT: 6.412 min Scan# 1877
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 63 Resp: 97826

Ion	Ratio	Lower	Upper
63	100		
63	100.0	80.0	120.0
65	31.5	14.5	43.6
76	47.7	18.8	56.4

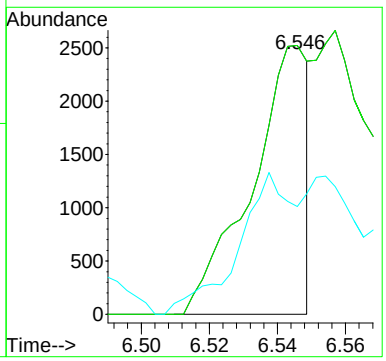


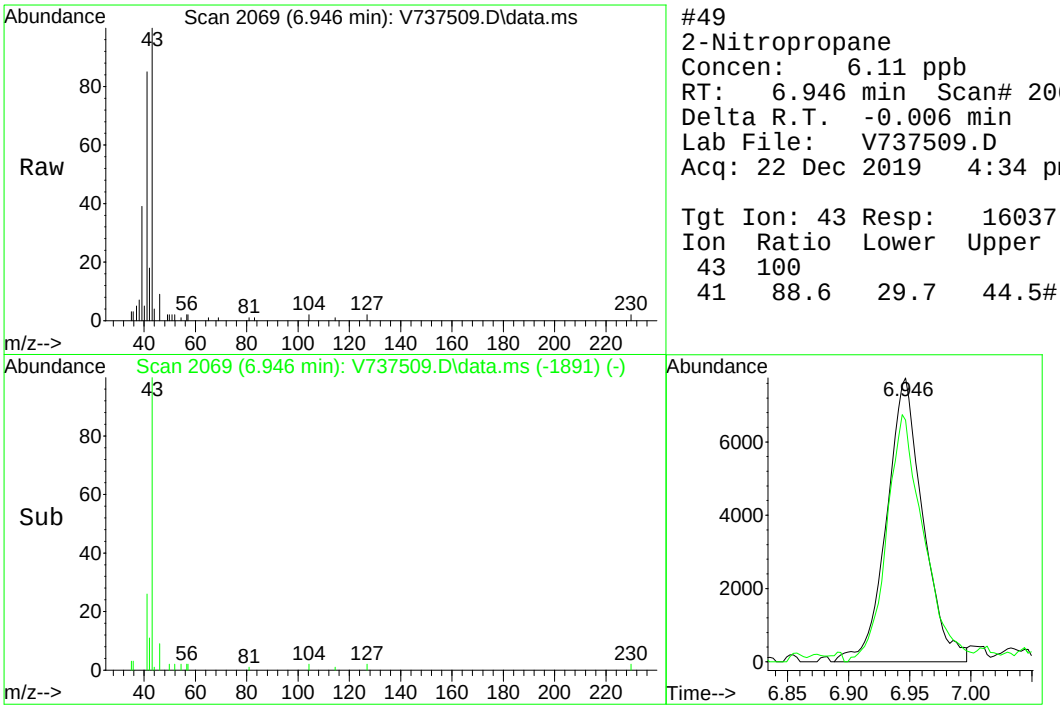


#48
1,4-Dioxane
Concen: 75.46 ppb
RT: 6.546 min Scan# 1925
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 88 Resp: 2897

Ion	Ratio	Lower	Upper
88	100		
88	100.0	80.0	120.0
58	51.3	30.8	92.3

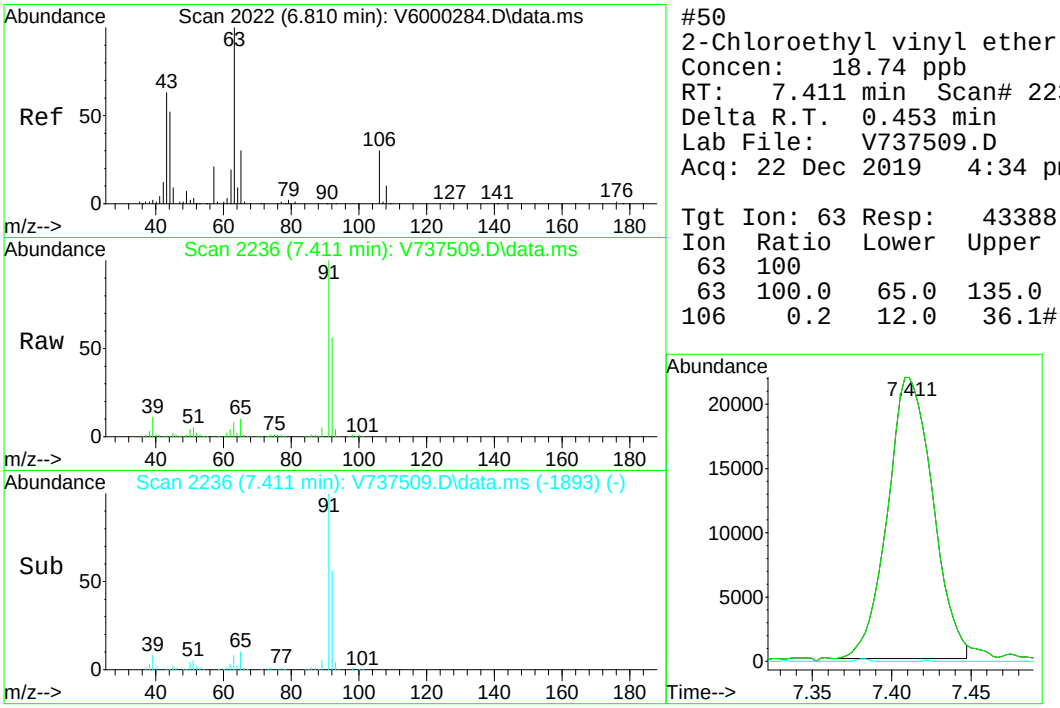




#49
2-Nitropropane
Concen: 6.11 ppb
RT: 6.946 min Scan# 2069
Delta R.T. -0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 43 Resp: 16037

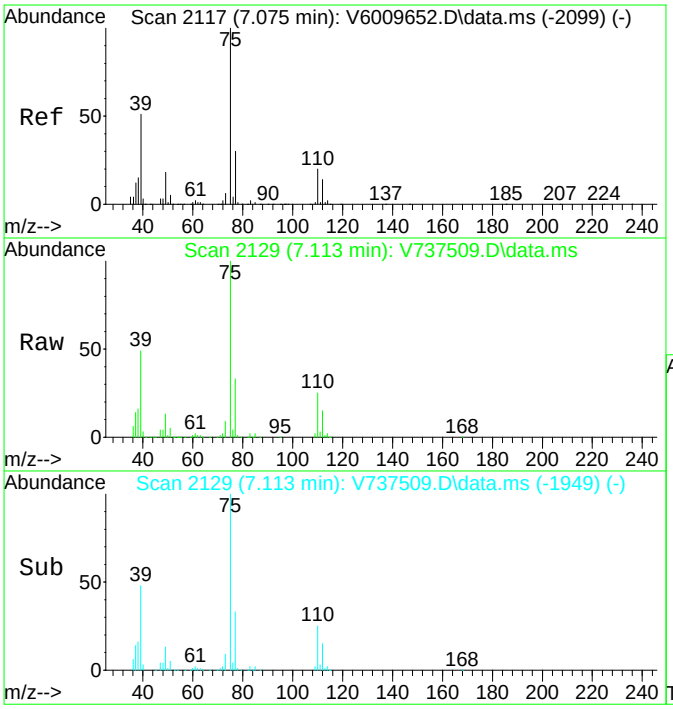
Ion	Ratio	Lower	Upper
43	100		
41	88.6	29.7	44.5#



#50
2-Chloroethyl vinyl ether
Concen: 18.74 ppb
RT: 7.411 min Scan# 2236
Delta R.T. 0.453 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 63 Resp: 43388

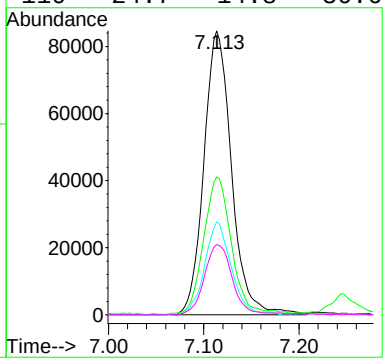
Ion	Ratio	Lower	Upper
63	100		
63	100.0	65.0	135.0
106	0.2	12.0	36.1#

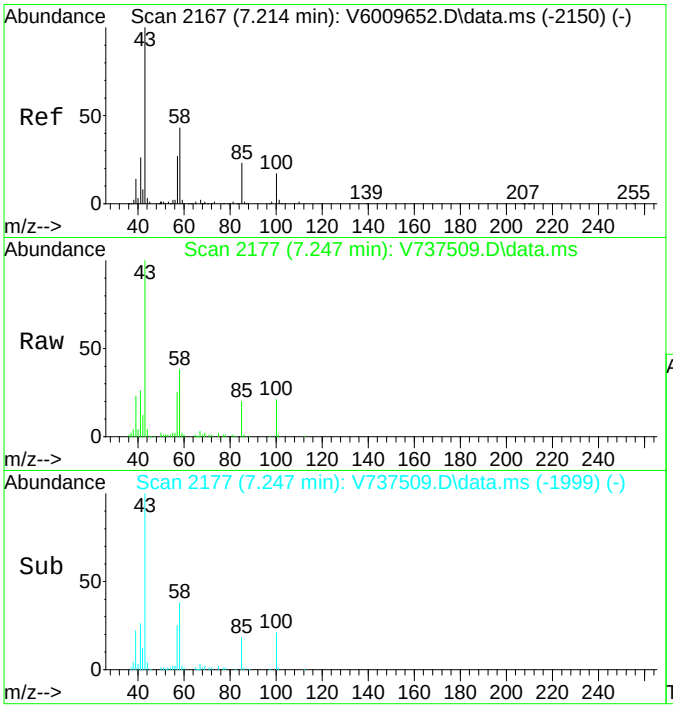


#51
cis-1,3-Dichloropropene
Concen: 10.48 ppb
RT: 7.113 min Scan# 2129
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 75 Resp: 170642

Ion	Ratio	Lower	Upper
75	100		
39	48.1	41.8	86.8
77	31.4	20.1	41.7
110	24.7	14.8	30.6

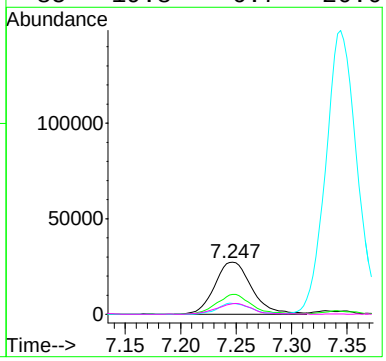


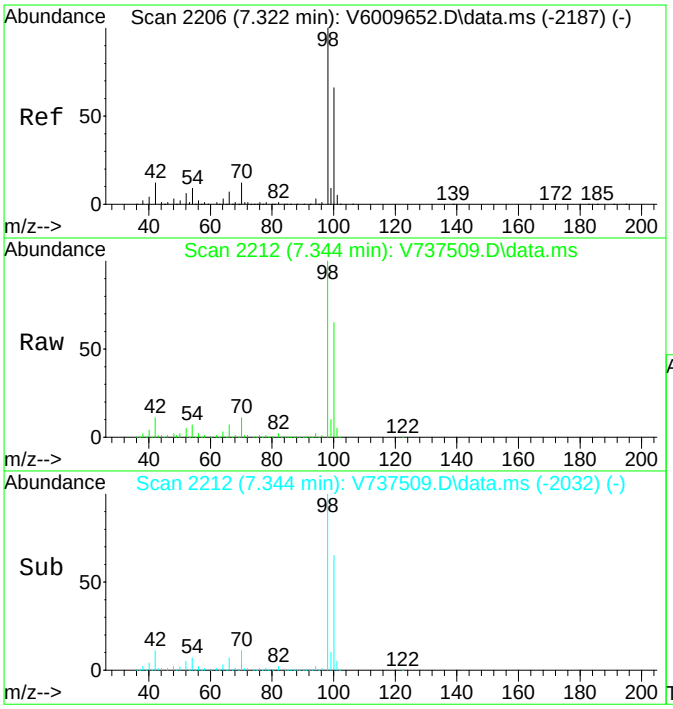


#52
4-Methyl-2-Pentanone
Concen: 10.80 ppb
RT: 7.247 min Scan# 2177
Delta R.T. -0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 43 Resp: 63786

Ion	Ratio	Lower	Upper
43	100		
58	36.1	23.8	49.4
100	19.1	5.8	17.3#
85	19.8	6.7	20.0

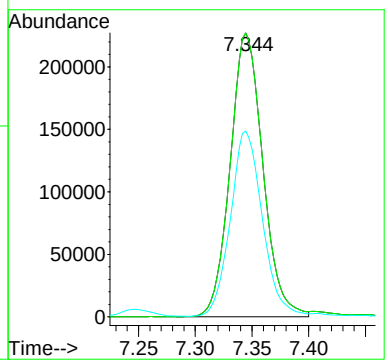


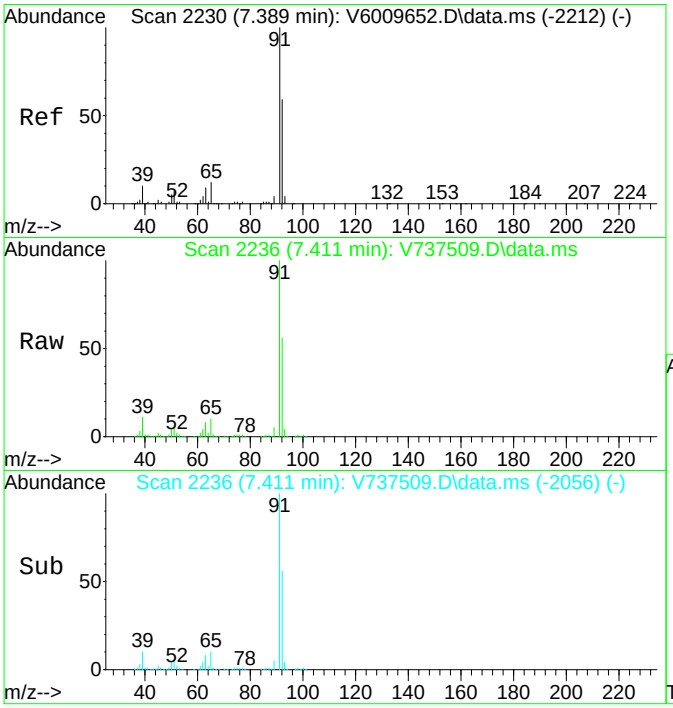


#53
Toluene-d8 (SURR)
Concen: 10.11 ppb
RT: 7.344 min Scan# 2212
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 98 Resp: 456663

Ion	Ratio	Lower	Upper
98	100		
98	100.0	65.0	135.0
100	63.7	43.4	90.2

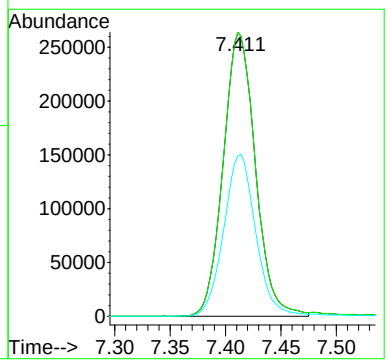


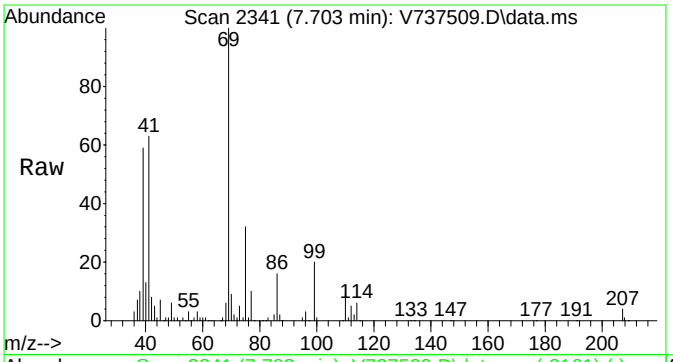


#54
Toluene
Concen: 10.29 ppb
RT: 7.411 min Scan# 2236
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 533049

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
92	56.9	38.4	79.7

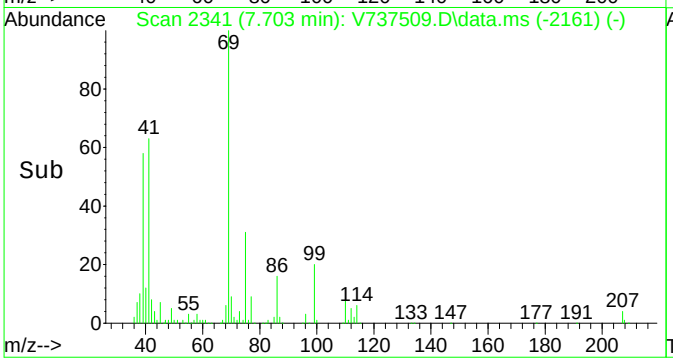


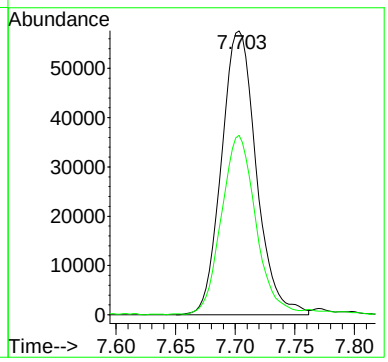


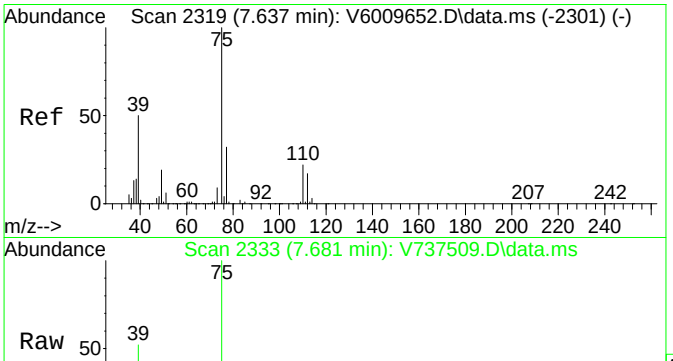
#55
Ethyl Methacrylate
Concen: 10.30 ppb
RT: 7.703 min Scan# 2341
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 69 Resp: 117202

Ion	Ratio	Lower	Upper
69	100		
41	61.8	125.7	188.5#



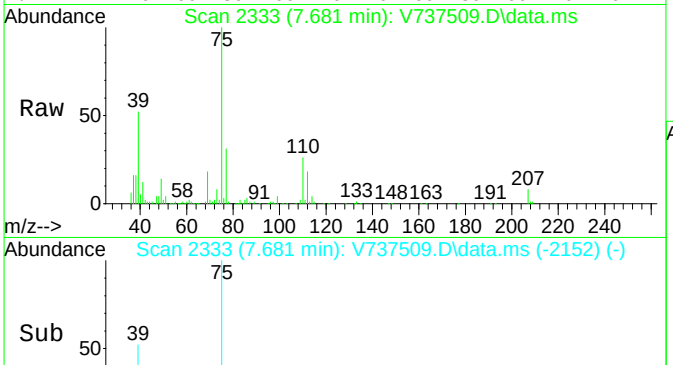


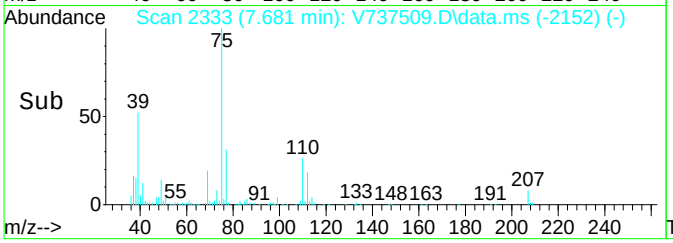


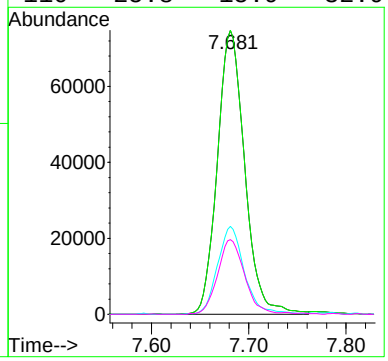
#56
trans-1,3-Dichloropropene
Concen: 10.55 ppb
RT: 7.681 min Scan# 2333
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

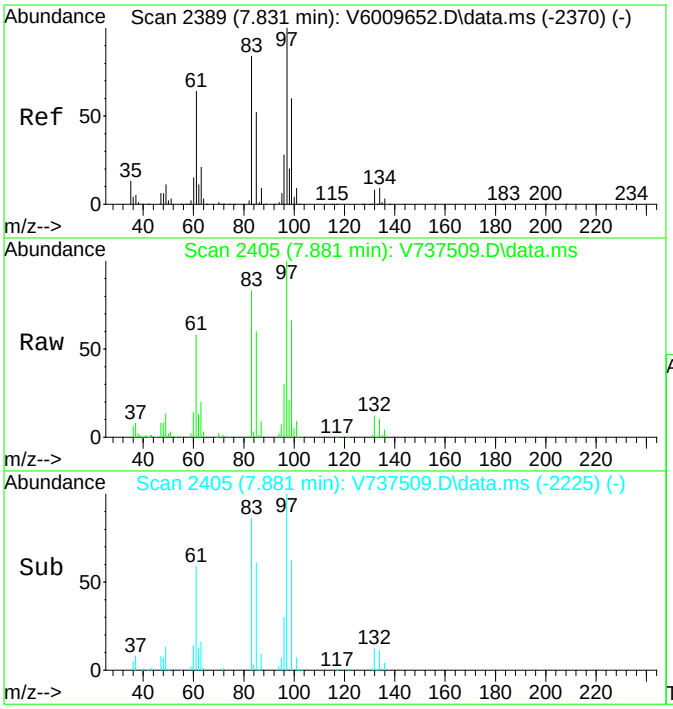
Tgt Ion: 75 Resp: 146845

Ion	Ratio	Lower	Upper
75	100		
75	100.0	65.0	135.0
77	30.4	20.3	42.3
110	25.8	15.9	32.9





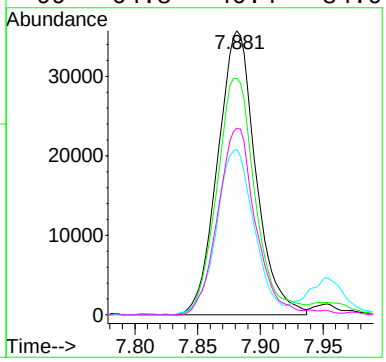


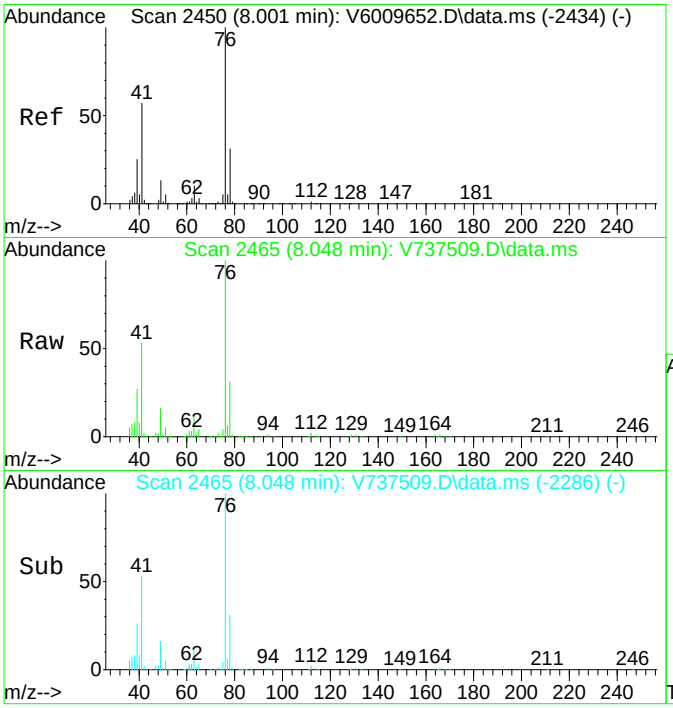


#57
1,1,2-Trichloroethane
Concen: 9.45 ppb
RT: 7.881 min Scan# 2405
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 97 Resp: 75303

Ion	Ratio	Lower	Upper
97	100		
83	84.2	54.1	112.5
61	57.5	44.3	91.9
99	64.8	40.4	84.0

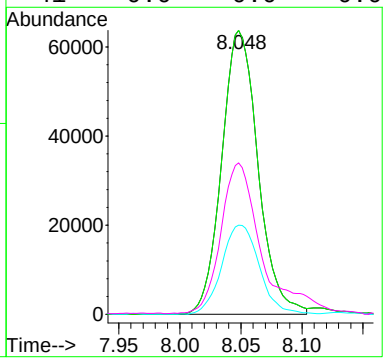


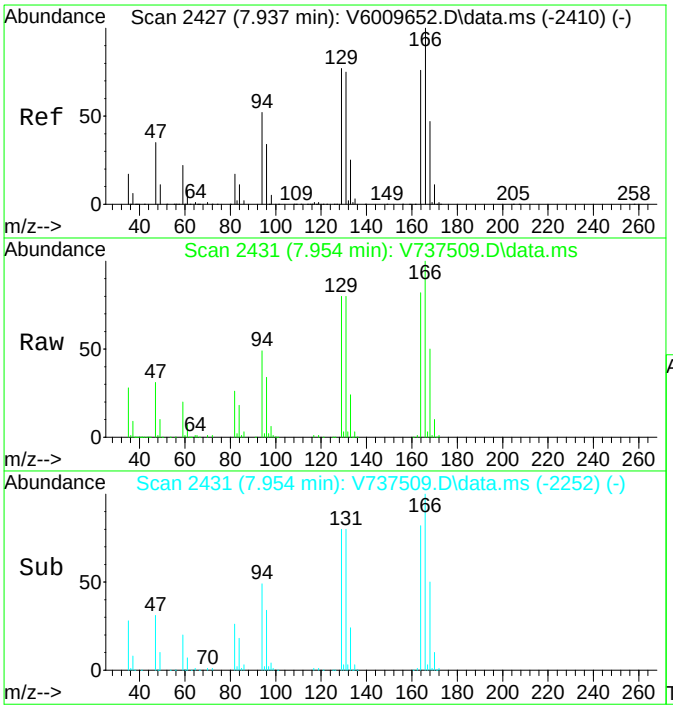


#58
1,3-Dichloropropane
Concen: 9.82 ppb
RT: 8.048 min Scan# 2465
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 76 Resp: 131794

Ion	Ratio	Lower	Upper
76	100		
76	100.0	80.0	120.0
78	32.7	16.4	49.2
41	0.0	0.0	0.0

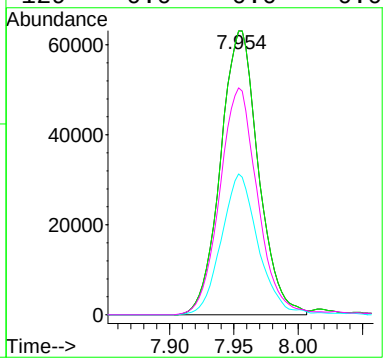


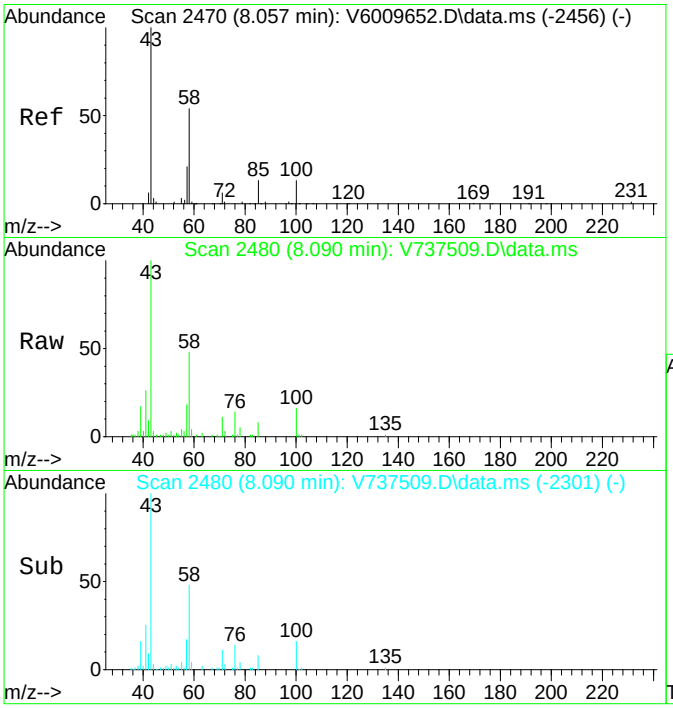


#59
Tetrachloroethylene
Concen: 8.45 ppb
RT: 7.954 min Scan# 2431
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:166 Resp: 129138

Ion	Ratio	Lower	Upper
166	100		
166	100.0	65.0	135.0
168	48.0	0.0	0.0#
129	0.0	0.0	0.0

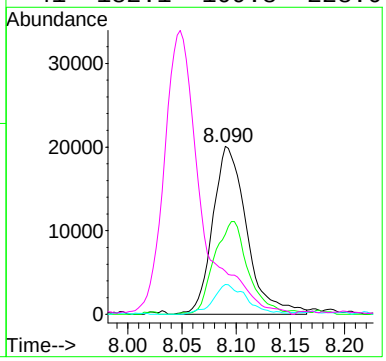


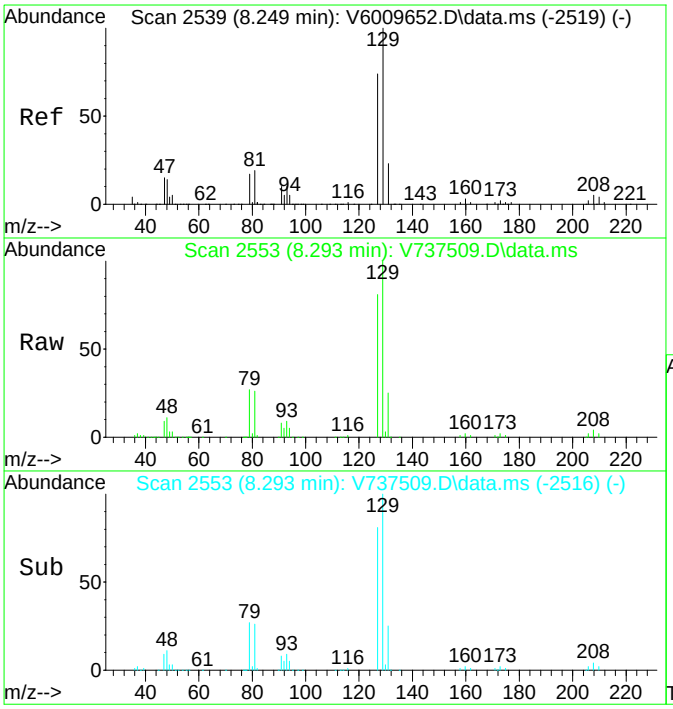


#60
2-Hexanone
Concen: 10.42 ppb
RT: 8.090 min Scan# 2480
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 43 Resp: 43952

Ion	Ratio	Lower	Upper
43	100		
58	52.8	33.0	68.6
57	17.6	11.1	23.1
41	182.1	109.8	228.0

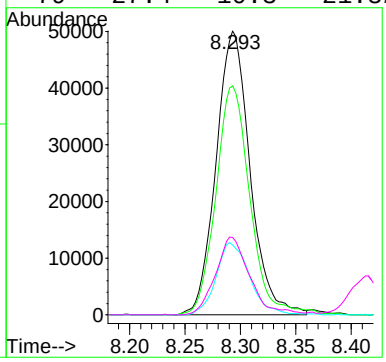


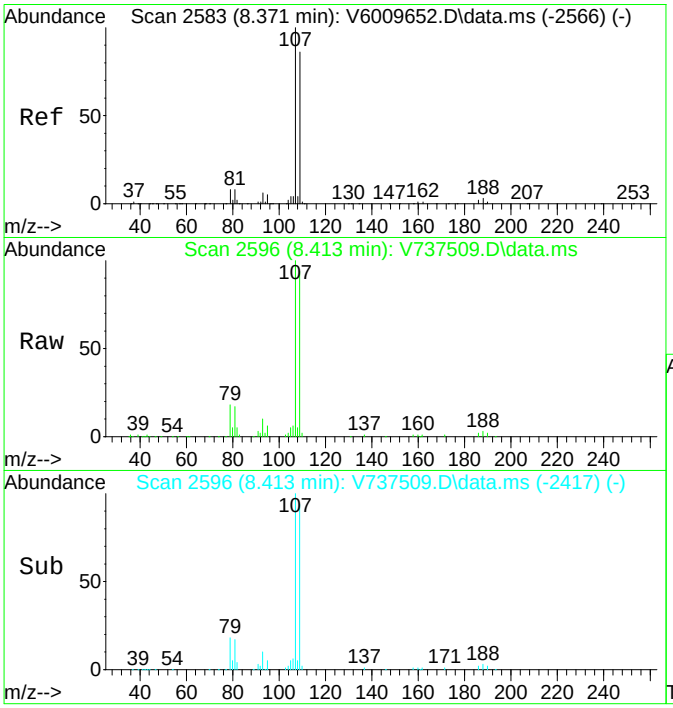


#61
Dibromochloromethane
Concen: 10.38 ppb
RT: 8.293 min Scan# 2553
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:129 Resp: 106922

Ion	Ratio	Lower	Upper
129	100		
127	80.7	49.8	103.4
131	25.0	16.1	33.5
79	27.4	10.3	21.3#

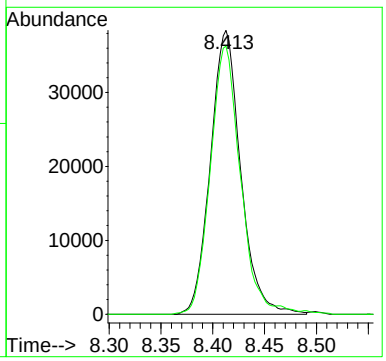


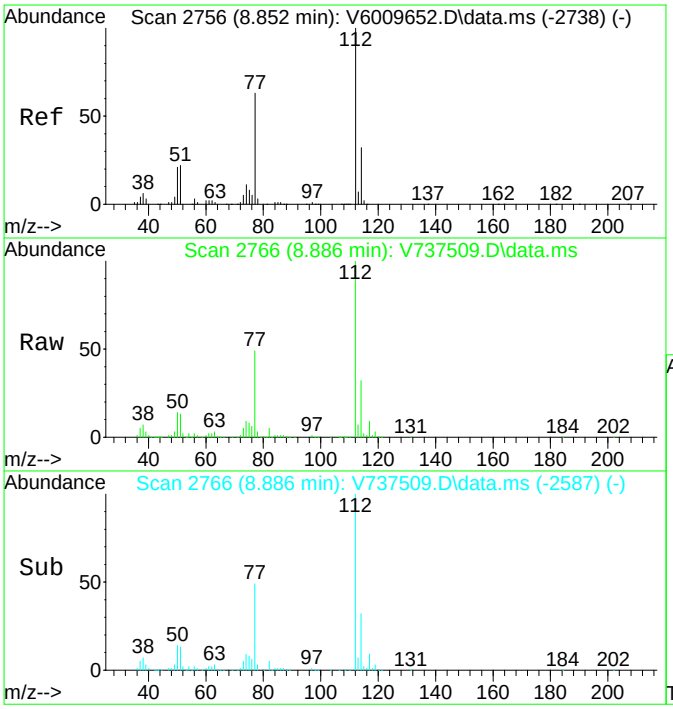


#62
1,2-Dibromoethane
Concen: 9.65 ppb
RT: 8.413 min Scan# 2596
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:107 Resp: 78310

Ion	Ratio	Lower	Upper
107	100		
109	94.0	62.0	128.8

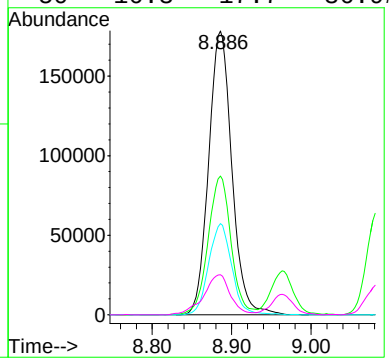


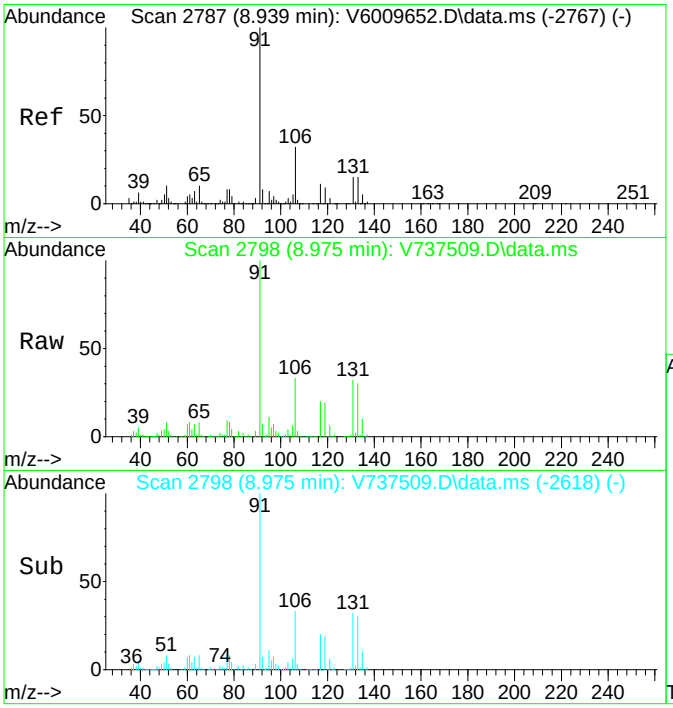


#63
Chlorobenzene
Concen: 9.84 ppb
RT: 8.886 min Scan# 2766
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:112 Resp: 363060

Ion	Ratio	Lower	Upper
112	100		
77	48.6	38.9	80.7
114	32.0	20.5	42.7
50	16.3	17.7	36.9#

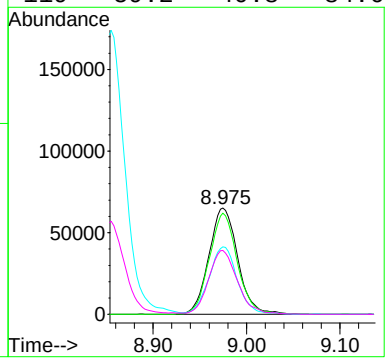


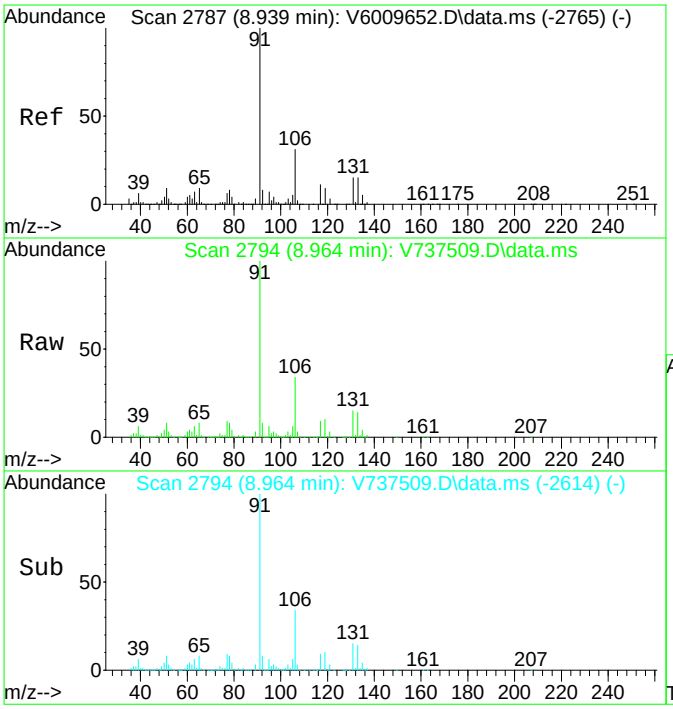


#64
1,1,1,2-tetrachloroethane
Concen: 10.17 ppb
RT: 8.975 min Scan# 2798
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:131 Resp: 140340

Ion	Ratio	Lower	Upper
131	100		
133	92.3	61.5	127.7
117	62.3	42.6	88.6
119	59.2	40.8	84.6

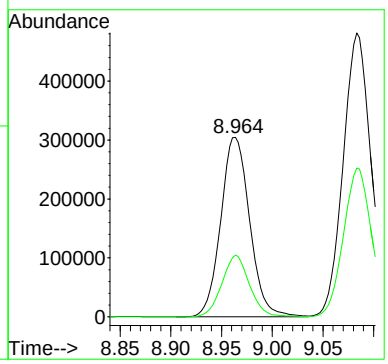


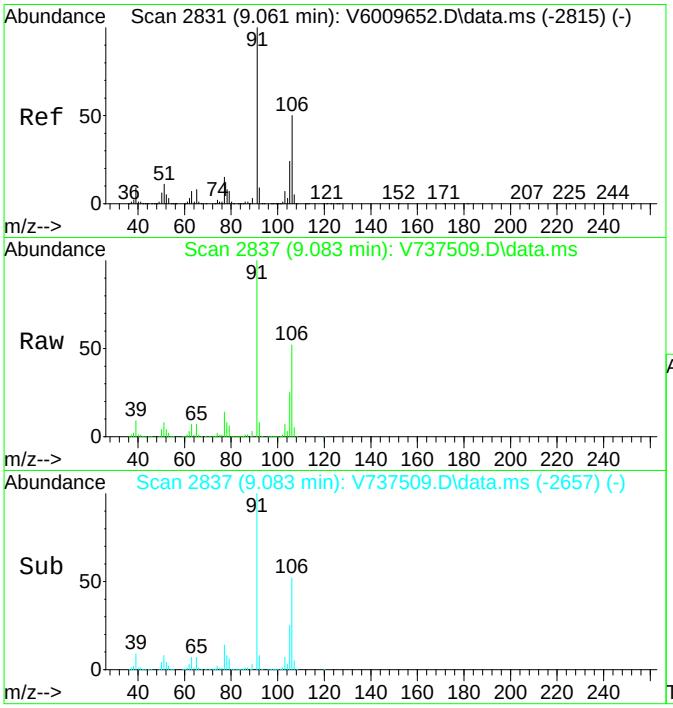


#65
Ethyl Benzene
Concen: 10.24 ppb
RT: 8.964 min Scan# 2794
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 605995

Ion	Ratio	Lower	Upper
91	100		
106	32.8	20.0	41.6

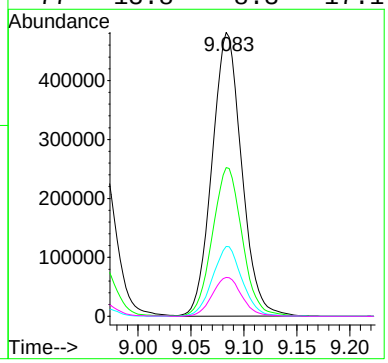


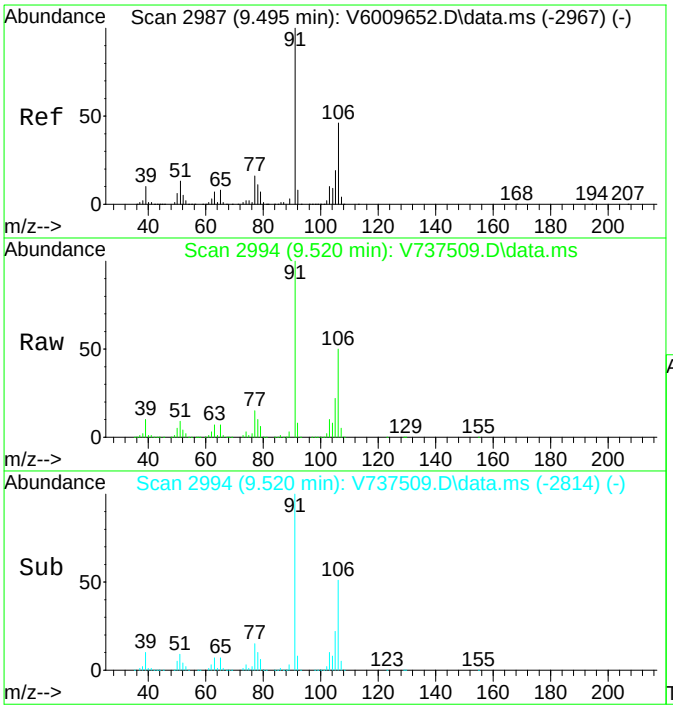


#66
p- & m-Xylenes
Concen: 20.35 ppb
RT: 9.083 min Scan# 2837
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 935298

Ion	Ratio	Lower	Upper
91	100		
106	52.9	31.3	65.1
105	24.7	14.2	29.4
77	13.8	8.3	17.1

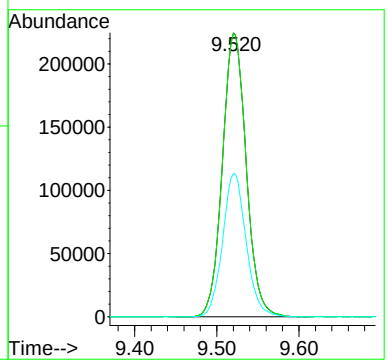


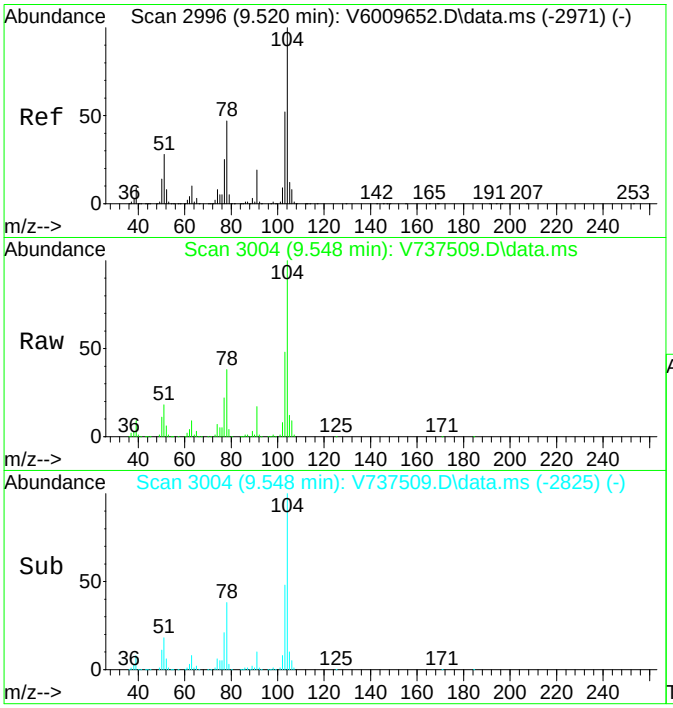


#67
o-Xylene
Concen: 10.22 ppb
RT: 9.520 min Scan# 2994
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 452030

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
106	50.0	22.7	68.1

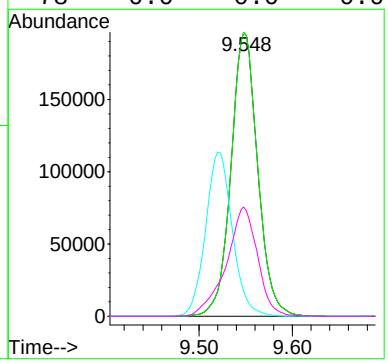


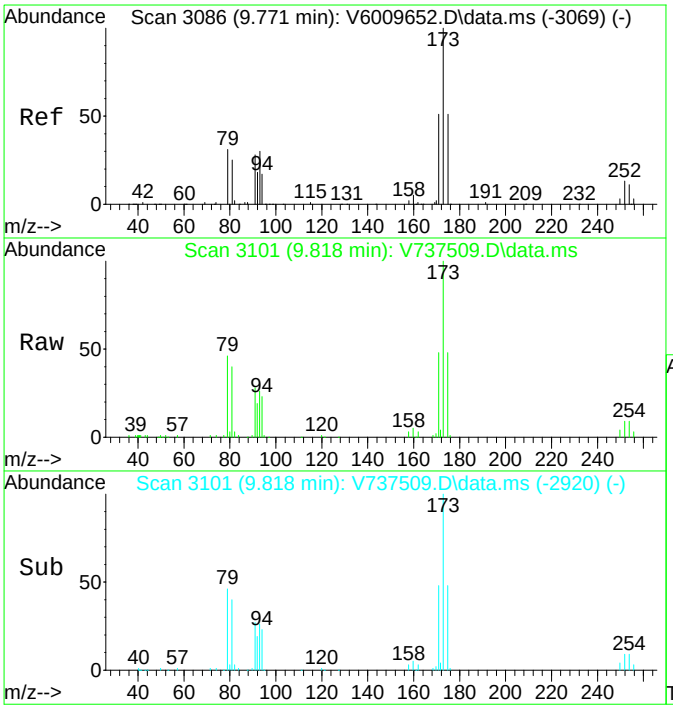


#68
Styrene
Concen: 10.38 ppb
RT: 9.548 min Scan# 3004
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:104 Resp: 389916

Ion	Ratio	Lower	Upper
104	100		
104	100.0	65.0	135.0
106	0.0	0.0	0.0
78	0.0	0.0	0.0

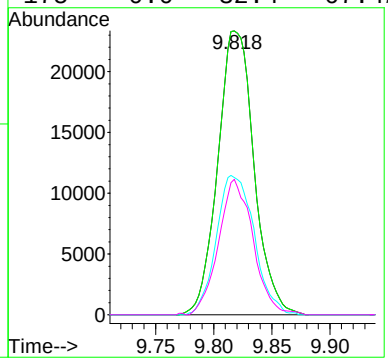


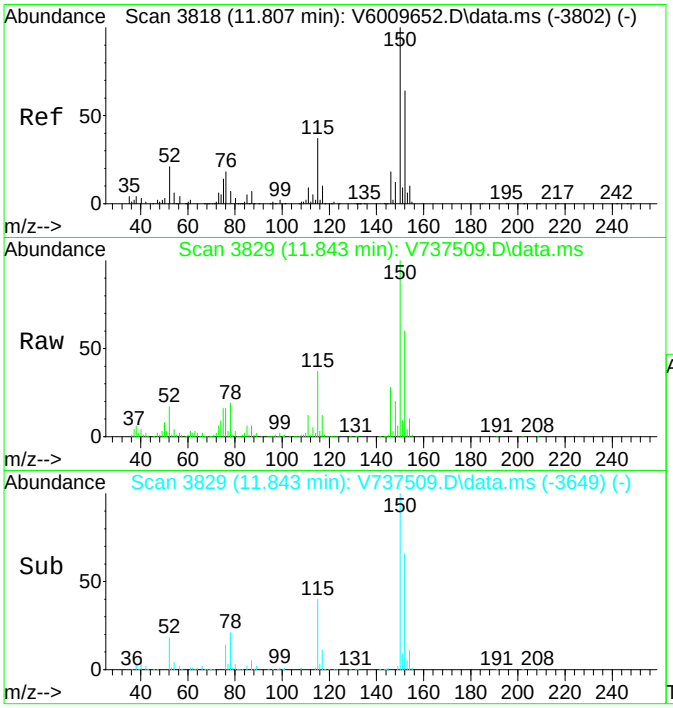


#69
Bromoform
Concen: 9.37 ppb
RT: 9.818 min Scan# 3101
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:173 Resp: 50713

Ion	Ratio	Lower	Upper
173	100		
173	100.0	80.0	120.0
171	51.2	0.0	0.0#
175	0.0	32.4	67.4#

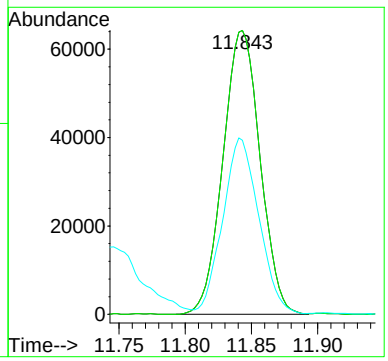


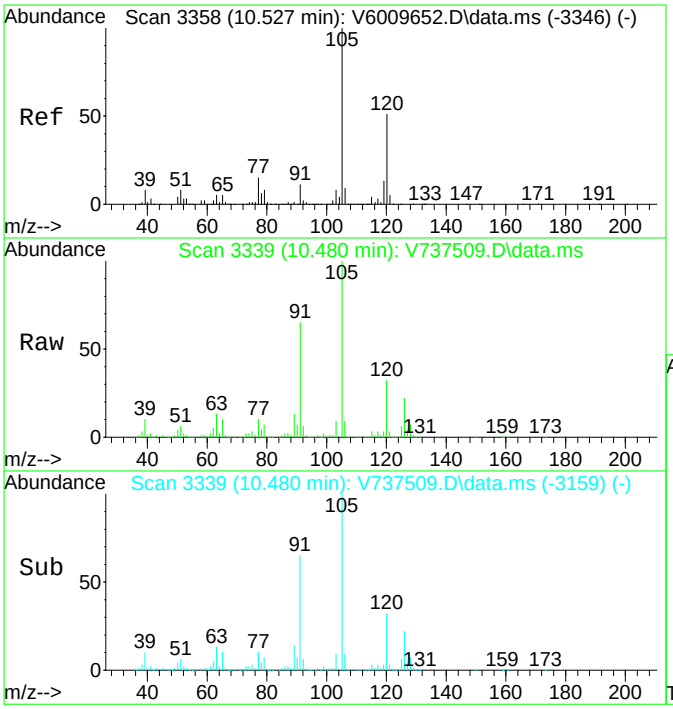


#70
1,2-DICHLOROBENZENE-d4 (ISTD)
Concen: 10.00 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:152 Resp: 125454

Ion	Ratio	Lower	Upper
152	100		
152	100.0	50.0	150.0
115	60.1	33.7	101.0

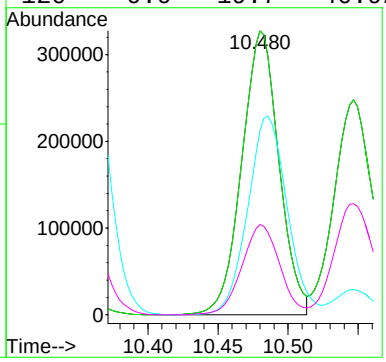


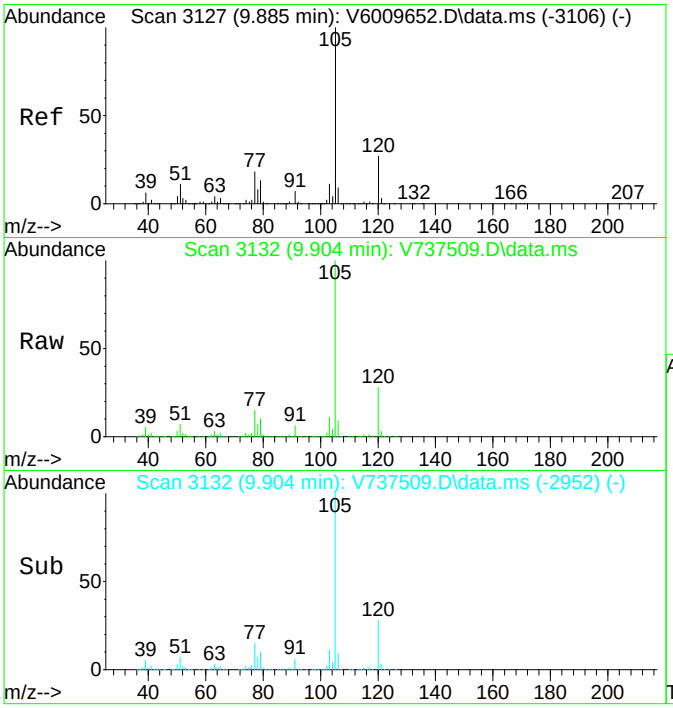


#71
p-Ethyltoluene
Concen: 10.81 ppb
RT: 10.480 min Scan# 3339
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:105 Resp: 603411

Ion	Ratio	Lower	Upper
105	100		
105	100.0	80.0	120.0
91	0.0	0.0	0.0
120	0.0	19.7	40.9#

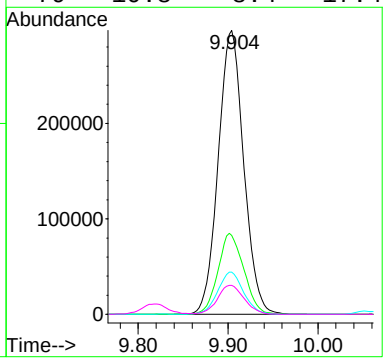


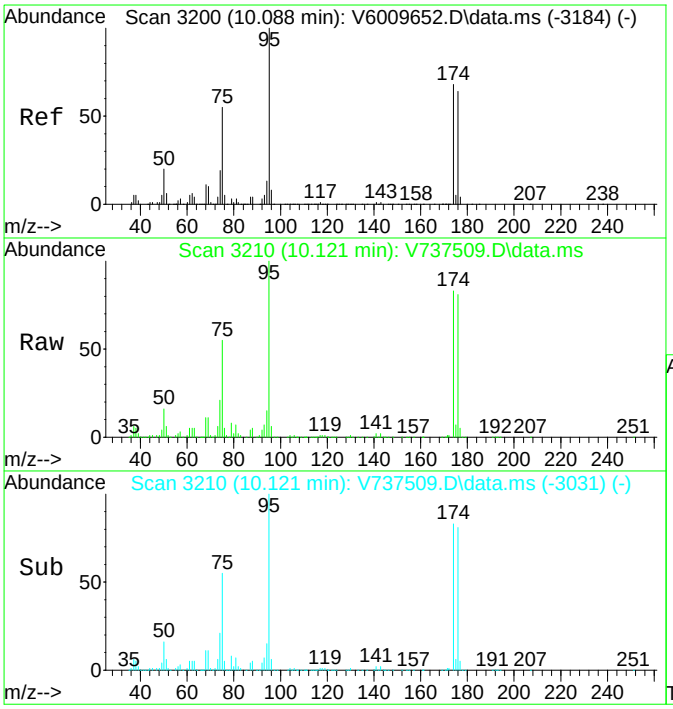


#72
Isopropylbenzene
Concen: 10.00 ppb
RT: 9.904 min Scan# 3132
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:105 Resp: 585587

Ion	Ratio	Lower	Upper
105	100		
120	28.9	17.6	36.6
77	15.1	10.1	20.9
79	10.8	8.4	17.4

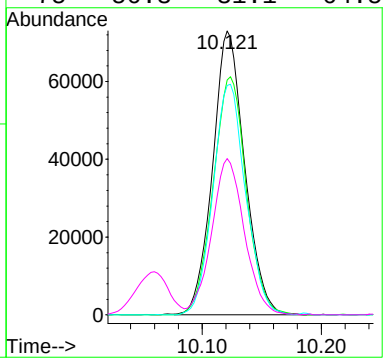


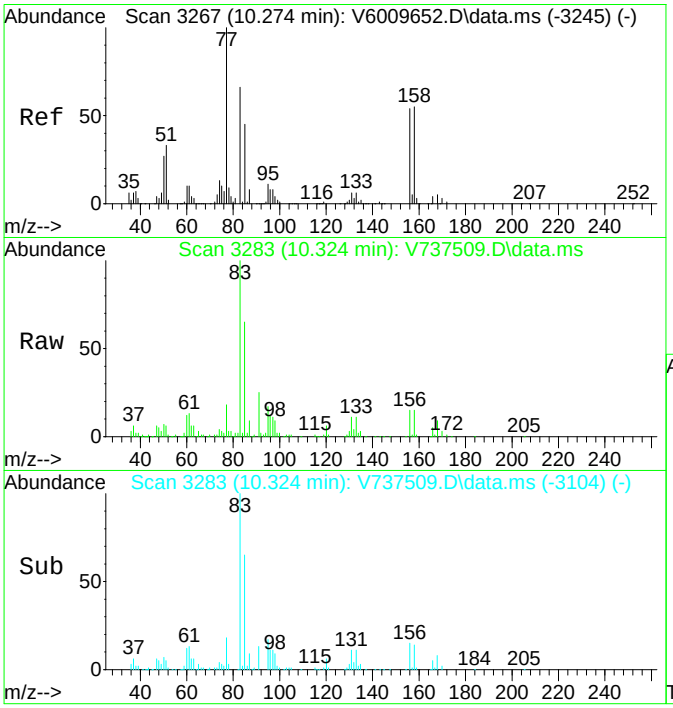


#73
p-Bromofluorobenzene (SURR)
Concen: 10.84 ppb
RT: 10.121 min Scan# 3210
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 95 Resp: 136698

Ion	Ratio	Lower	Upper
95	100		
174	86.9	49.1	102.1
176	82.8	47.7	99.1
75	56.3	31.1	64.5

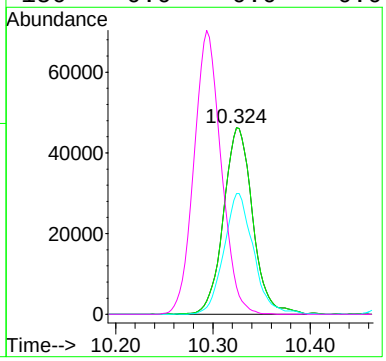


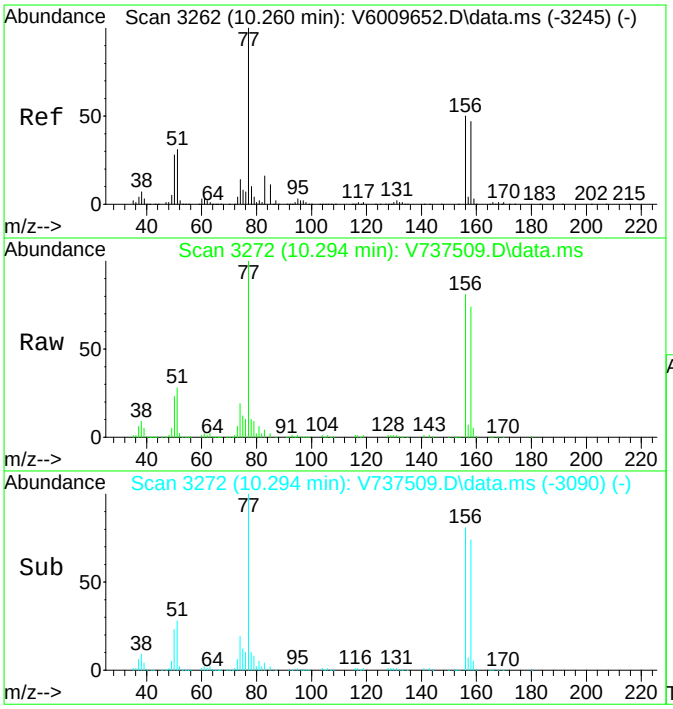


#74
1,1,2,2-Tetrachloroethane
Concen: 10.16 ppb
RT: 10.324 min Scan# 3283
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 83 Resp: 97344

Ion	Ratio	Lower	Upper
83	100		
83	100.0	80.0	120.0
85	65.6	42.1	87.5
156	0.0	0.0	0.0

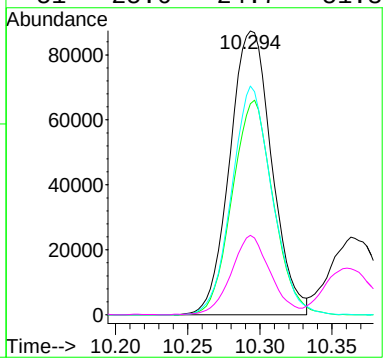


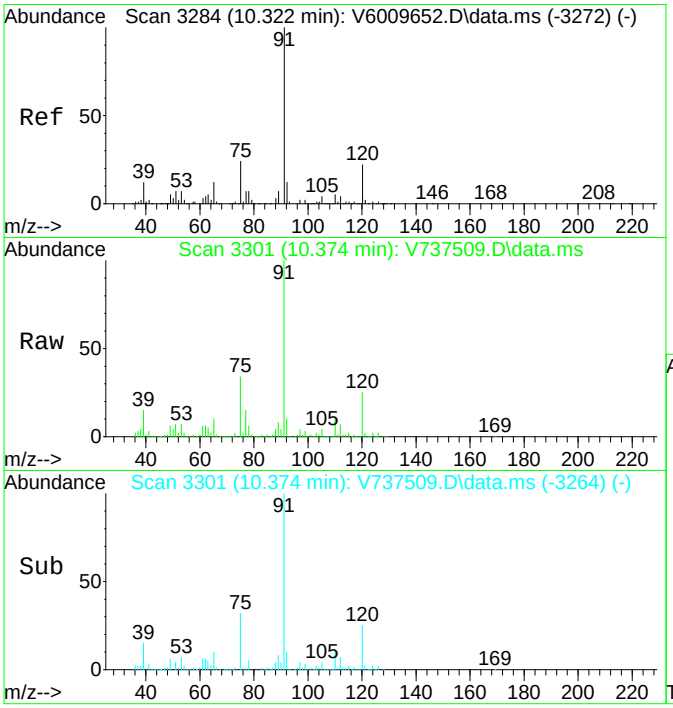


#75
Bromobenzene
Concen: 10.17 ppb
RT: 10.294 min Scan# 3272
Delta R.T. 0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 77 Resp: 177302

Ion	Ratio	Lower	Upper
77	100		
158	73.7	37.2	77.4
156	77.1	38.9	80.7
51	25.6	24.7	51.3

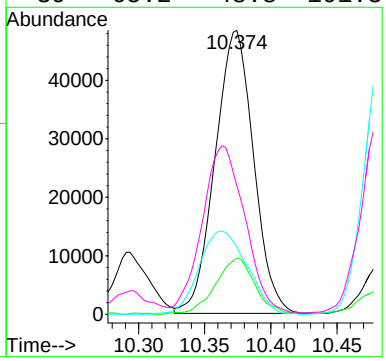


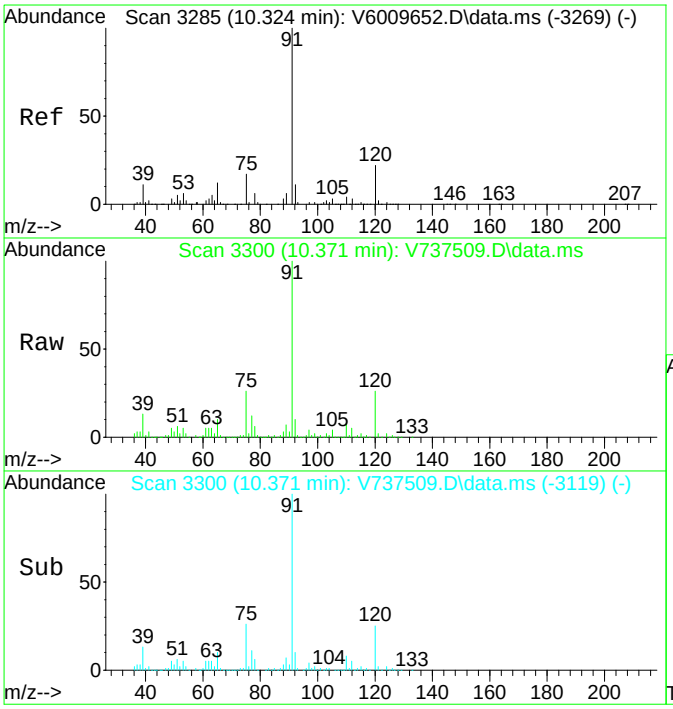


#76
trans-1,4-Dichloro-2-butene
Concen: 10.33 ppb
RT: 10.374 min Scan# 3301
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 75 Resp: 98076

Ion	Ratio	Lower	Upper
75	100		
53	20.4	21.8	45.4#
89	36.6	20.8	43.2
39	65.2	48.8	101.3

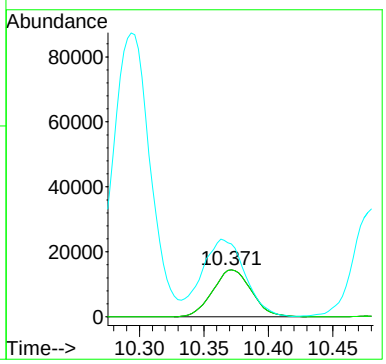


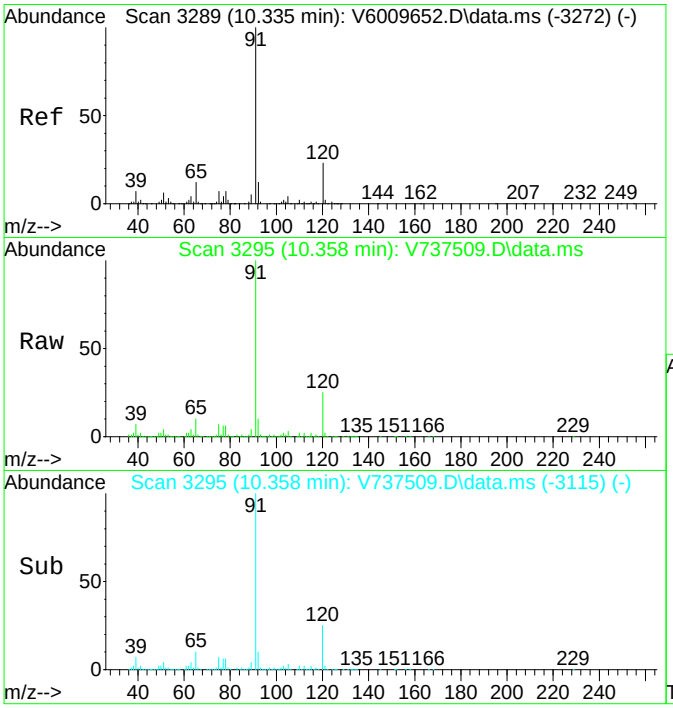


#77
1,2,3-Trichloropropane
Concen: 10.27 ppb
RT: 10.371 min Scan# 3300
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:110 Resp: 30247

Ion	Ratio	Lower	Upper
110	100		
110	100.0	80.0	120.0
77	182.4	113.1	339.4

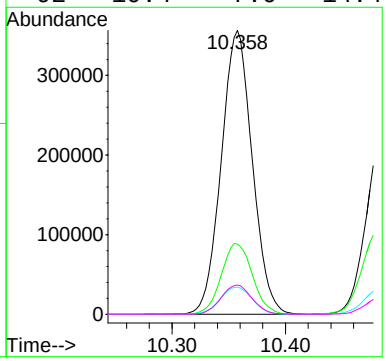


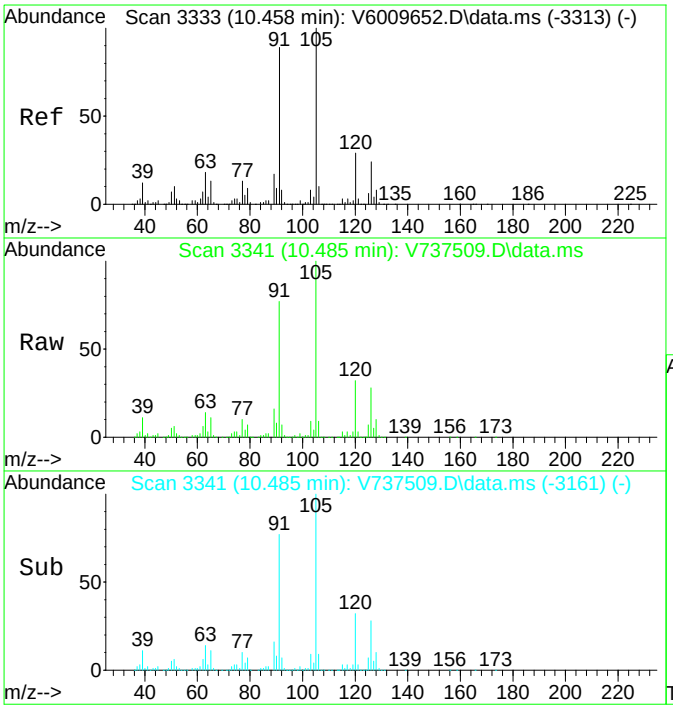


#78
n-Propylbenzene
Concen: 10.22 ppb
RT: 10.358 min Scan# 3295
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 678161

Ion	Ratio	Lower	Upper
91	100		
120	25.1	14.8	30.8
65	10.0	7.0	14.4
92	10.4	7.0	14.4

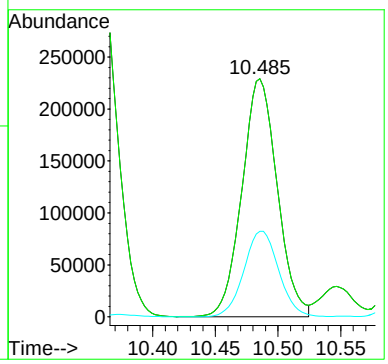


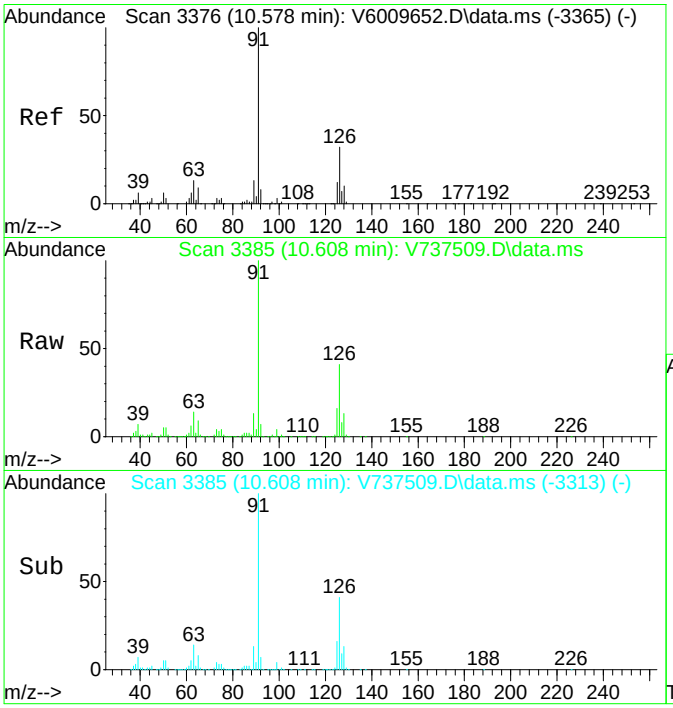


#79
2-Chlorotoluene
Concen: 10.27 ppb
RT: 10.485 min Scan# 3341
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 448664

Ion	Ratio	Lower	Upper
91	100		
91	100.0	65.0	135.0
126	35.5	18.1	37.7

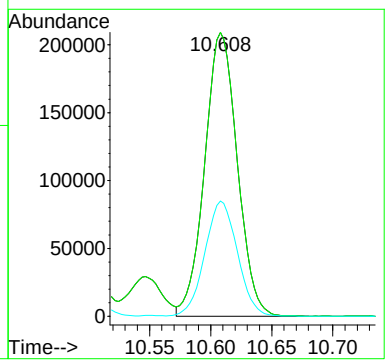


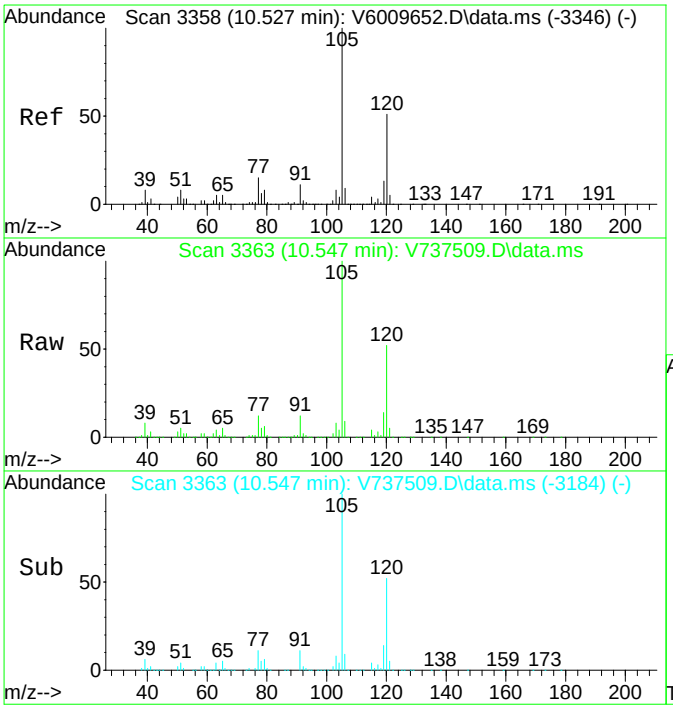


#80
4-Chlorotoluene
Concen: 10.31 ppb
RT: 10.608 min Scan# 3385
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 387721

Ion	Ratio	Lower	Upper
91	100		
91	100.0	80.0	120.0
126	40.8	16.0	47.9

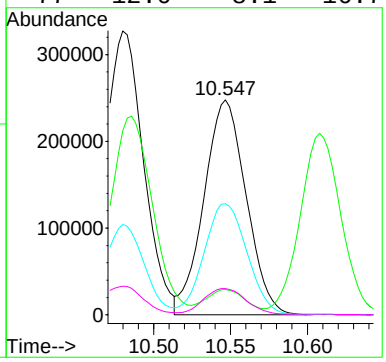


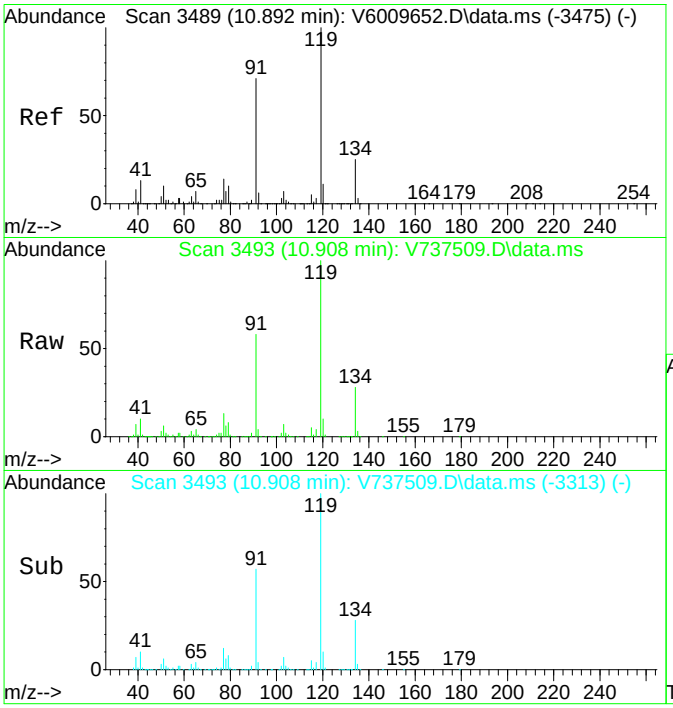


#81
1,3,5-Trimethylbenzene
Concen: 10.32 ppb
RT: 10.547 min Scan# 3363
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:105 Resp: 472712

Ion	Ratio	Lower	Upper
105	100		
91	11.3	6.8	14.2
120	52.6	32.6	67.6
77	12.0	8.1	16.7

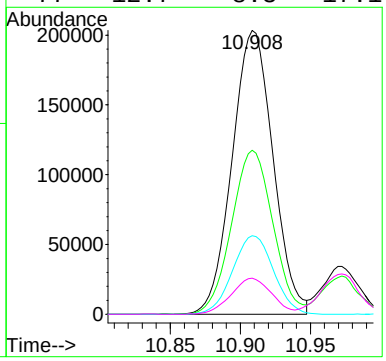


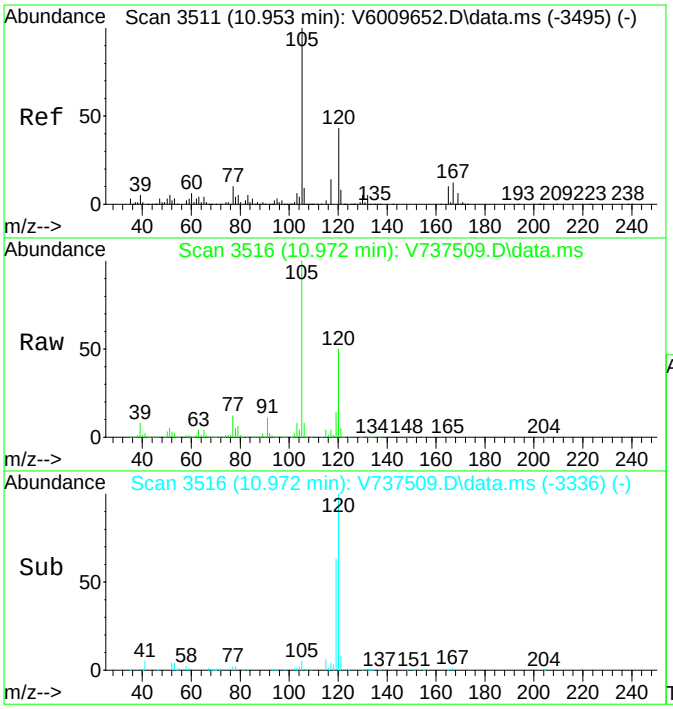


#82
tert-Butylbenzene
Concen: 10.10 ppb
RT: 10.908 min Scan# 3493
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:119 Resp: 412132

Ion	Ratio	Lower	Upper
119	100		
91	58.3	44.3	91.9
134	27.8	15.9	33.1
77	12.7	8.3	17.1

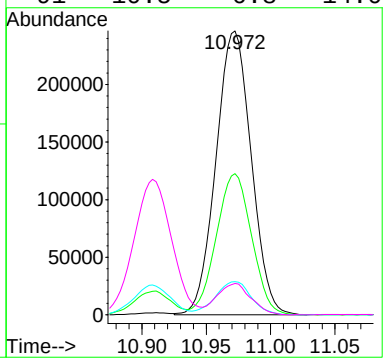


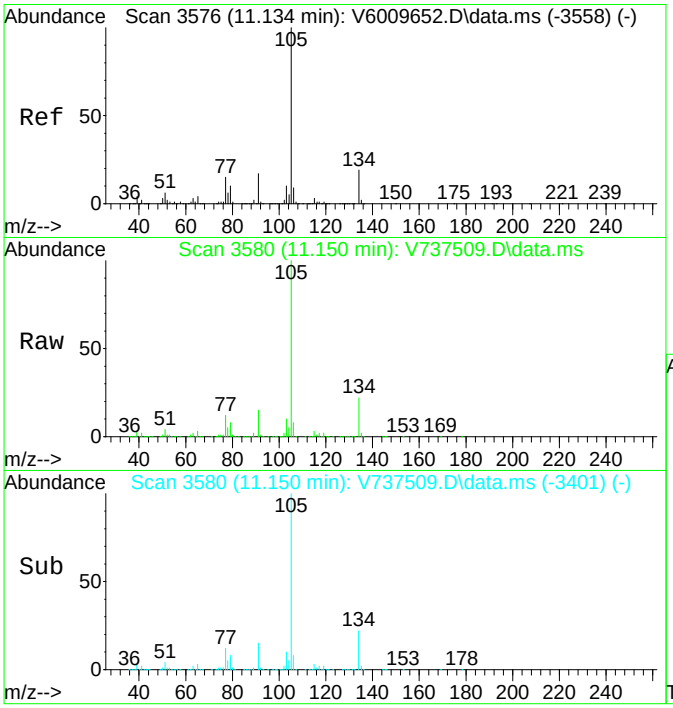


#83
1,2,4-Trimethylbenzene
Concen: 10.07 ppb
RT: 10.972 min Scan# 3516
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:105 Resp: 469483

Ion	Ratio	Lower	Upper
105	100		
120	49.8	30.7	63.7
77	12.0	8.0	16.6
91	10.5	6.8	14.0

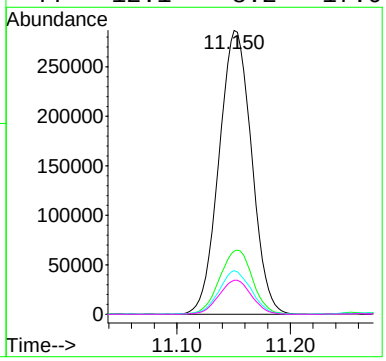


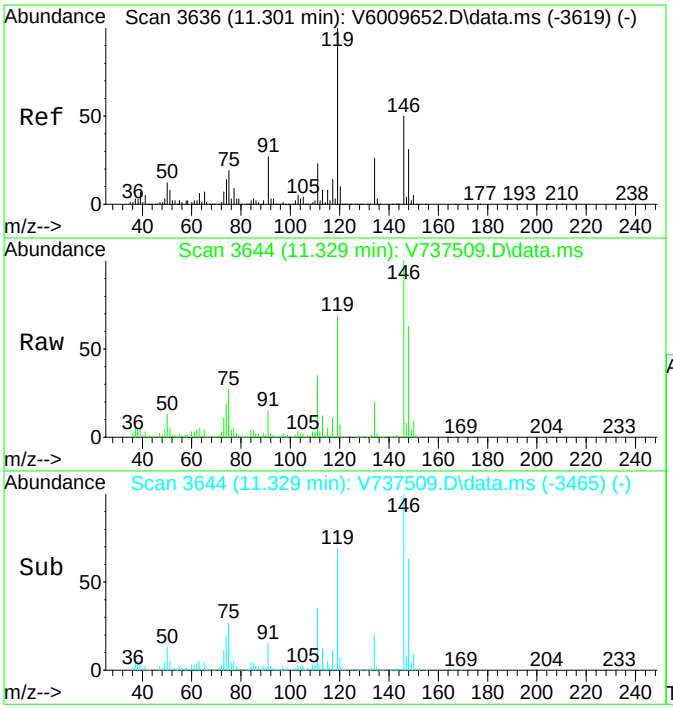


#84
sec-Butylbenzene
Concen: 11.16 ppb
RT: 11.150 min Scan# 3580
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:105 Resp: 572361

Ion	Ratio	Lower	Upper
105	100		
134	22.9	13.5	28.1
91	15.4	10.7	22.1
77	12.1	8.2	17.0

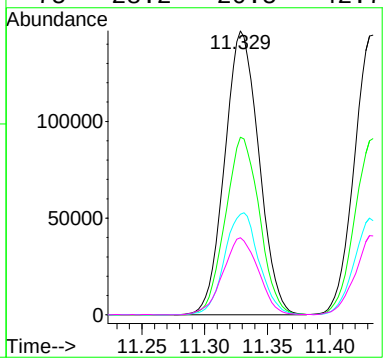


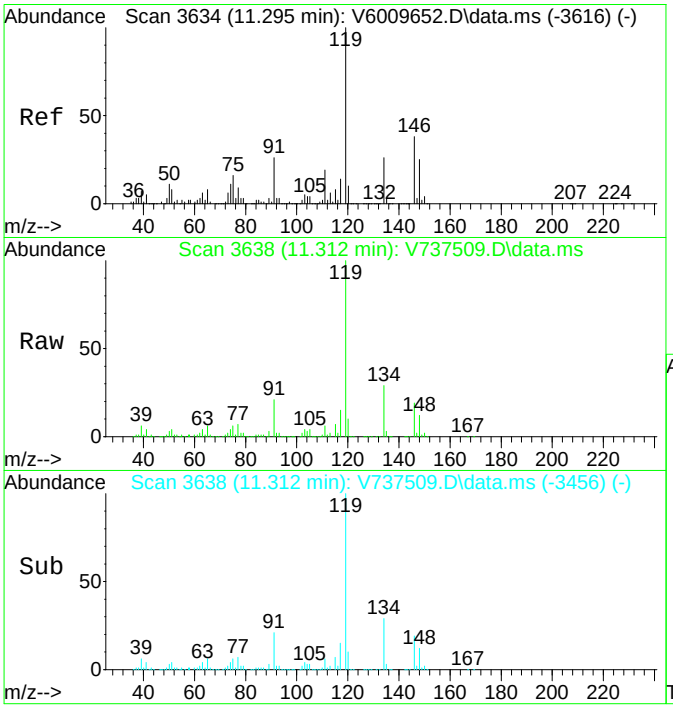


#85
1,3-Dichlorobenzene
Concen: 9.78 ppb
RT: 11.329 min Scan# 3644
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:146 Resp: 278570

Ion	Ratio	Lower	Upper
146	100		
148	62.4	41.7	86.5
111	36.2	27.2	56.6
75	28.2	20.5	42.7

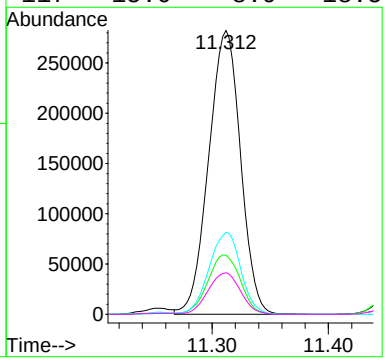


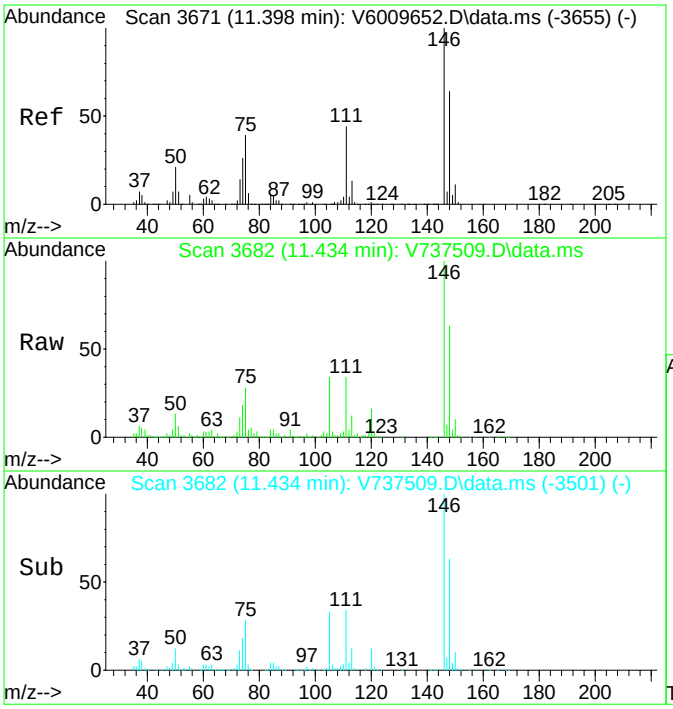


#86
p-Isopropyltoluene
Concen: 10.45 ppb
RT: 11.312 min Scan# 3638
Delta R.T. 0.006 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:119 Resp: 536922

Ion	Ratio	Lower	Upper
119	100		
91	21.4	15.8	32.8
134	28.9	17.6	36.6
117	15.0	8.9	18.5

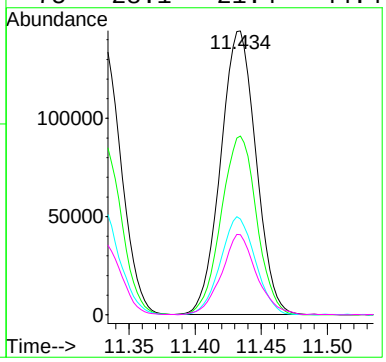


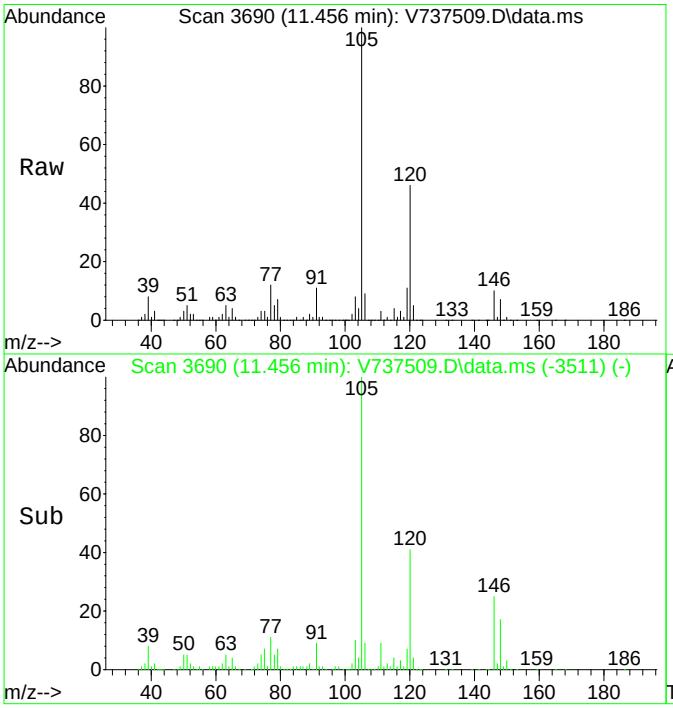


#87
1,4-Dichlorobenzene
Concen: 9.51 ppb
RT: 11.434 min Scan# 3682
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:146 Resp: 268294

Ion	Ratio	Lower	Upper
146	100		
148	63.3	41.0	85.2
111	34.2	26.3	54.7
75	28.1	21.4	44.4

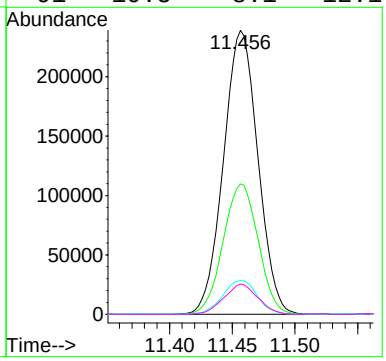


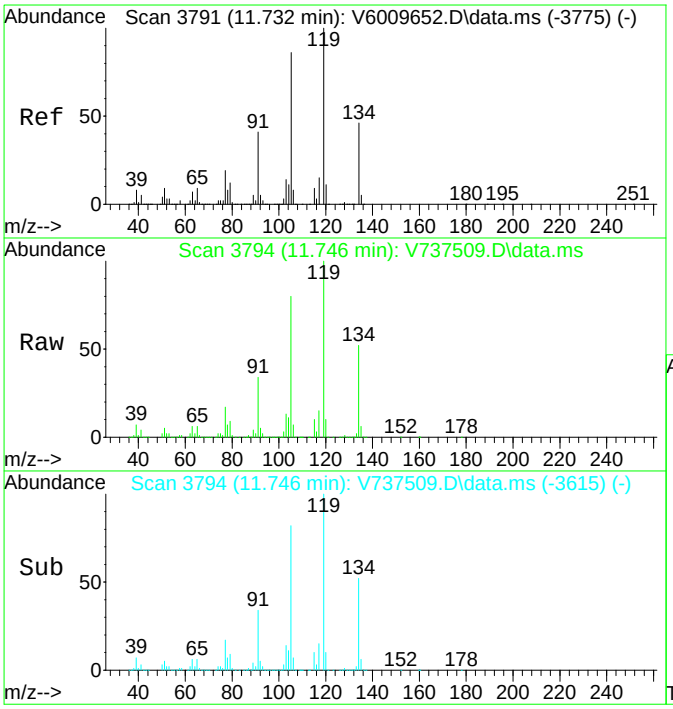


#88
1,2,3-Trimethylbenzene
Concen: 10.46 ppb
RT: 11.456 min Scan# 3690
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:105 Resp: 456182

Ion	Ratio	Lower	Upper
105	100		
120	46.7	34.3	51.5
77	12.0	9.8	14.8
91	10.5	8.1	12.1

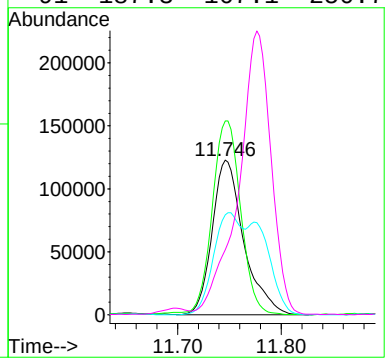


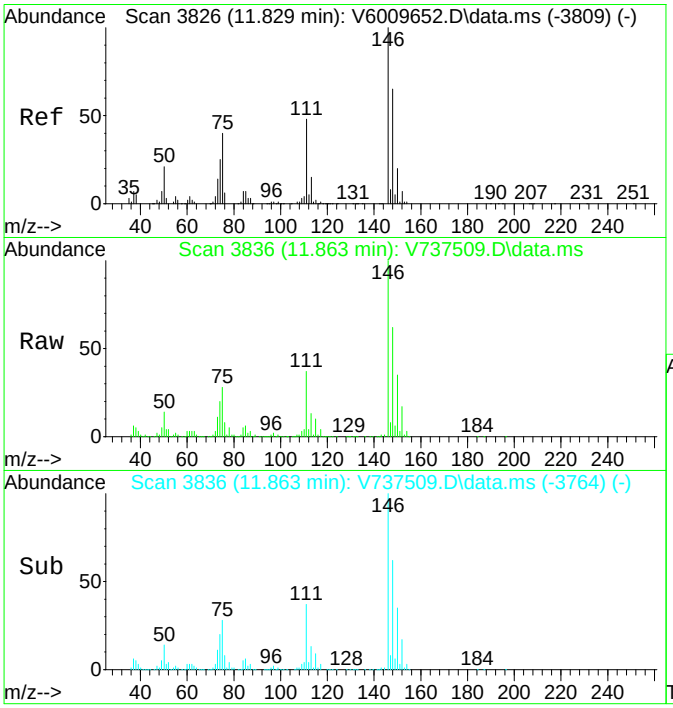


#89
p-Diethylbenzene
Concen: 12.02 ppb
RT: 11.746 min Scan# 3794
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:105 Resp: 260707

Ion	Ratio	Lower	Upper
105	100		
119	112.1	83.7	125.5
134	61.2	35.5	73.7
91	187.3	167.1	250.7

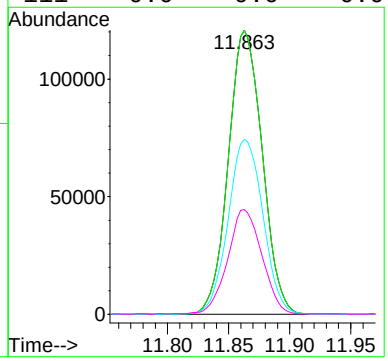


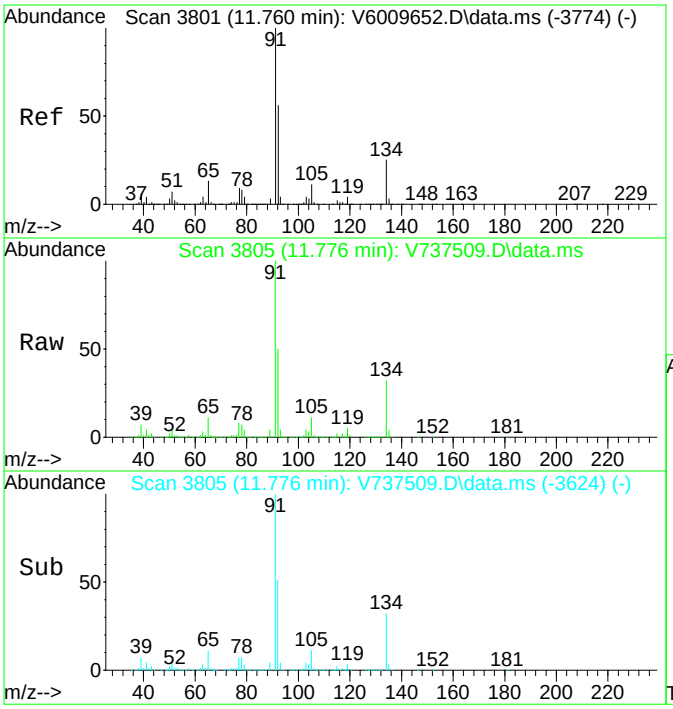


#90
1,2-Dichlorobenzene
Concen: 9.87 ppb
RT: 11.863 min Scan# 3836
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:146 Resp: 233055

Ion	Ratio	Lower	Upper
146	100		
146	100.0	80.0	120.0
148	63.4	41.6	86.4
111	0.0	0.0	0.0

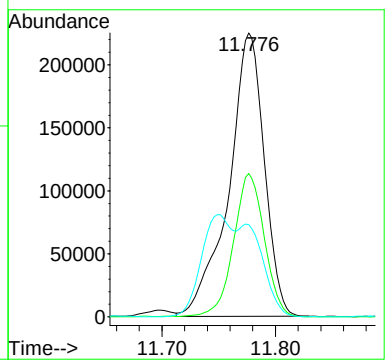


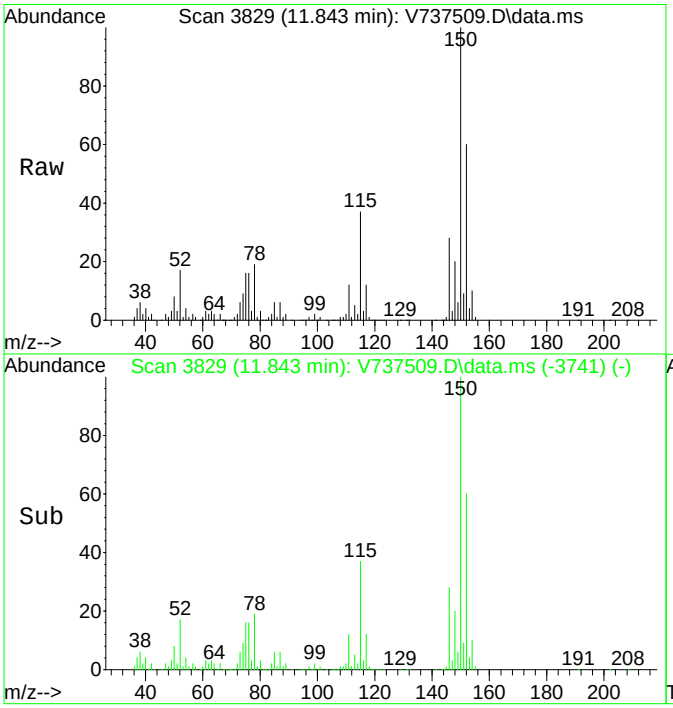


#91
n-Butylbenzene
Concen: 14.01 ppb
RT: 11.776 min Scan# 3805
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 91 Resp: 488264

Ion	Ratio	Lower	Upper
91	100		
92	44.0	30.9	64.1
134	32.7	17.0	35.4

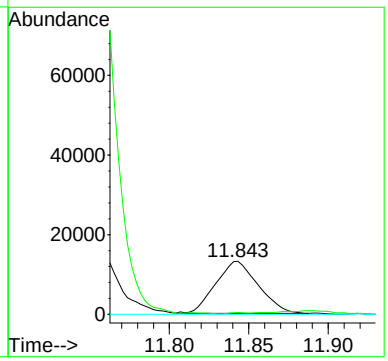


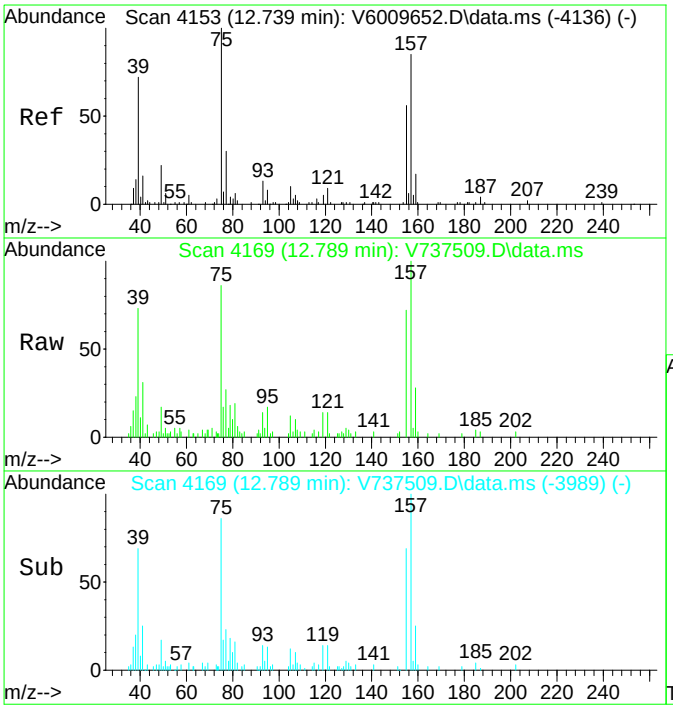


#92
Hexachloroethane
Concen: 3.28 ppb
RT: 11.843 min Scan# 3829
Delta R.T. -0.256 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:117 Resp: 24388

Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.3	117.5#
201	0.2	66.1	99.1#

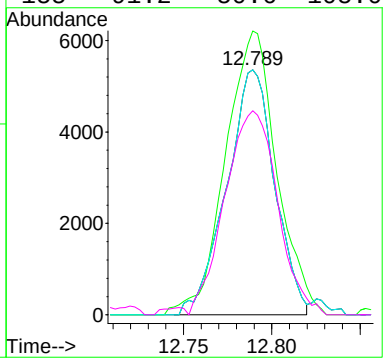


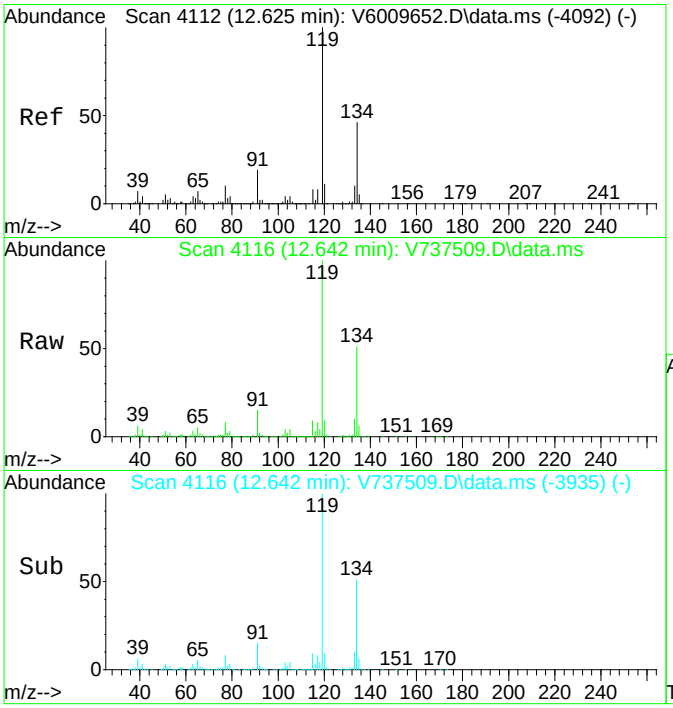


#93
1,2-Dibromo-3-chloropropane
Concen: 9.37 ppb
RT: 12.789 min Scan# 4169
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 75 Resp: 10173

Ion	Ratio	Lower	Upper
75	100		
157	123.6	80.2	120.2#
75	100.0	65.0	135.0
155	91.2	50.6	105.0

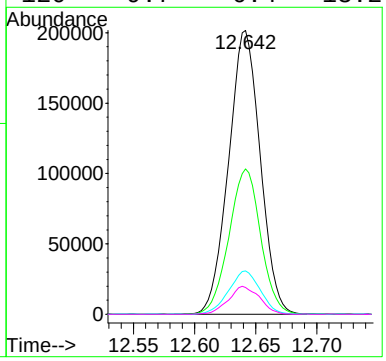


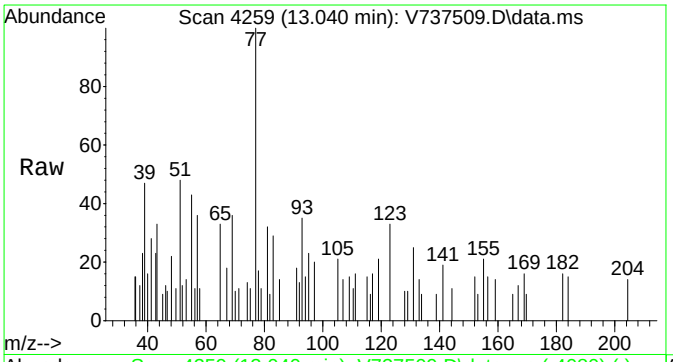


#94
1,2,4,5-Tetramethylbenzene
Concen: 10.41 ppb
RT: 12.642 min Scan# 4116
Delta R.T. 0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:119 Resp: 363485

Ion	Ratio	Lower	Upper
119	100		
134	51.4	31.2	64.8
91	15.4	10.5	21.7
120	9.7	6.4	13.2

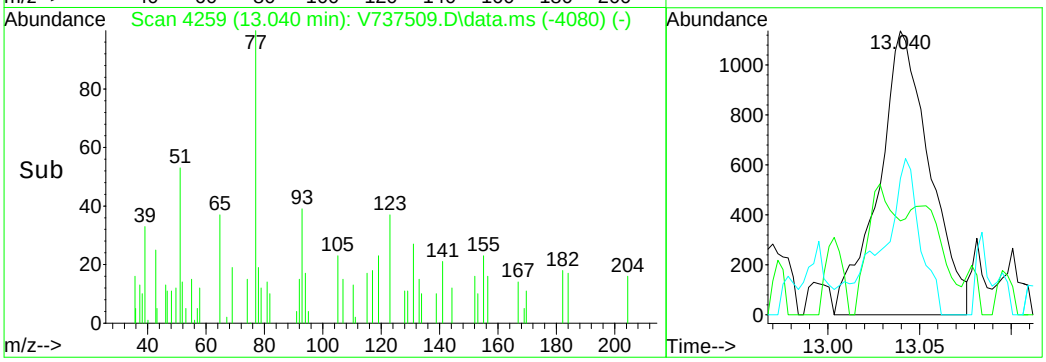


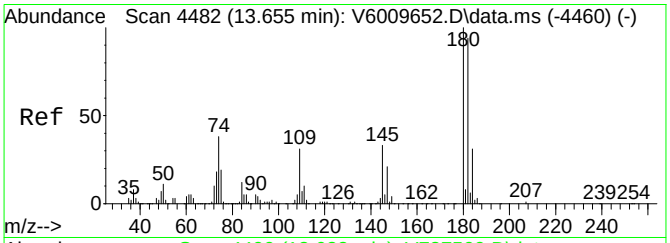


#95
Nitrobenzene
Concen: 12.50 ppb
RT: 13.040 min Scan# 4259
Delta R.T. -0.002 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion: 77 Resp: 2200

Ion	Ratio	Lower	Upper
77	100		
123	25.8	30.3	45.5#
51	39.3	40.8	61.2#

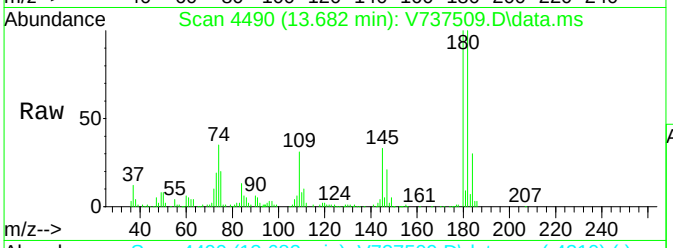


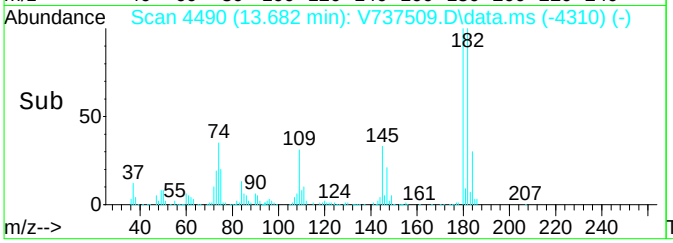


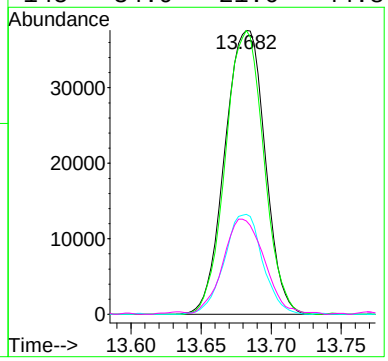
#96
1,2,4-Trichlorobenzene
Concen: 9.09 ppb
RT: 13.682 min Scan# 4490
Delta R.T. -0.000 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

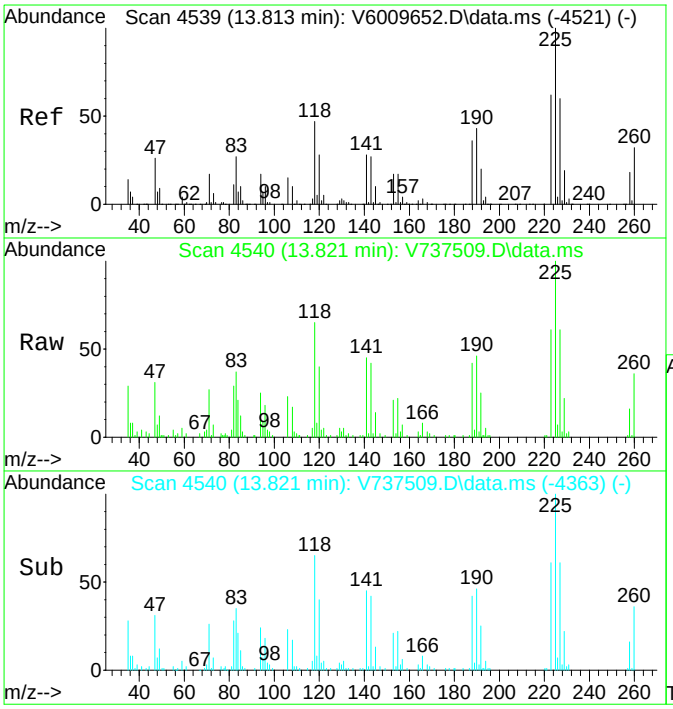
Tgt Ion:180 Resp: 74765

Ion	Ratio	Lower	Upper
180	100		
182	95.2	62.1	129.1
74	33.6	20.0	41.6
145	34.9	21.6	44.8





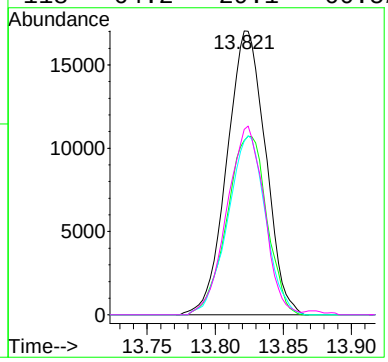


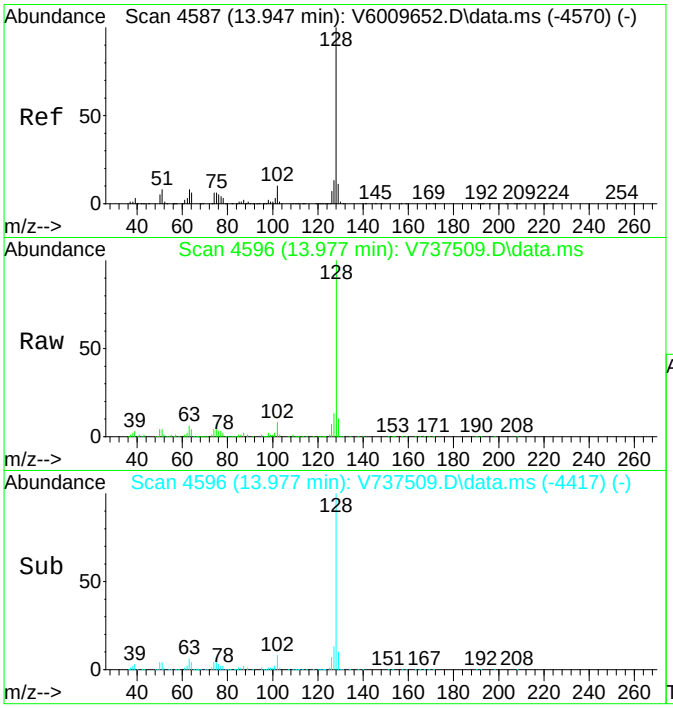


#97
Hexachloro-1,3-Butadiene
Concen: 10.10 ppb
RT: 13.821 min Scan# 4540
Delta R.T. -0.008 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:225 Resp: 33611

Ion	Ratio	Lower	Upper
225	100		
227	65.1	41.6	86.4
223	61.7	40.8	84.6
118	64.2	29.1	60.5#

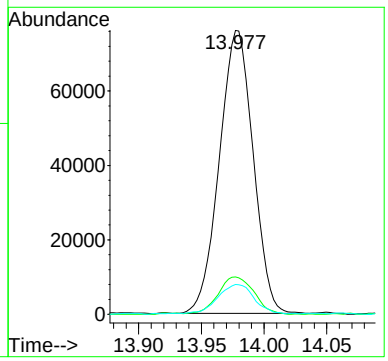


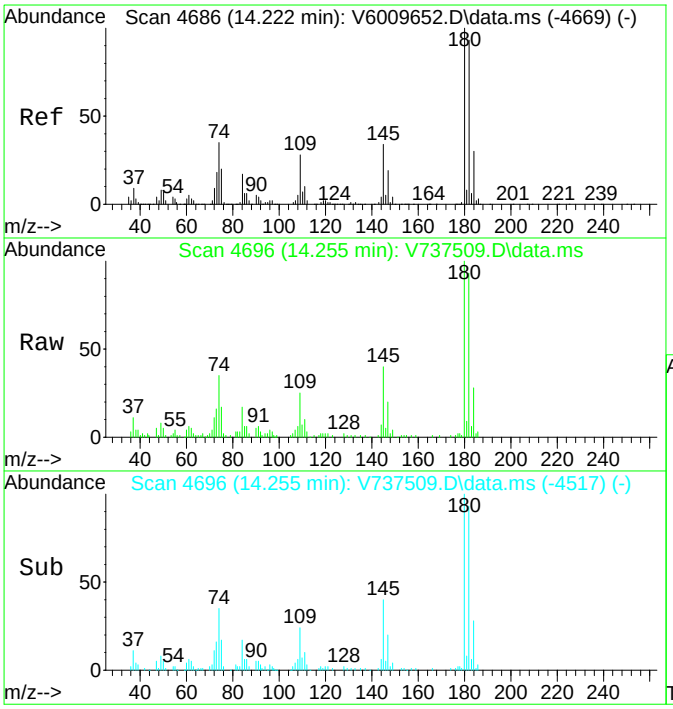


#98
Naphthalene
Concen: 9.37 ppb
RT: 13.977 min Scan# 4596
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:128 Resp: 142321

Ion	Ratio	Lower	Upper
128	100		
127	14.2	8.3	17.1
129	11.2	7.1	14.7

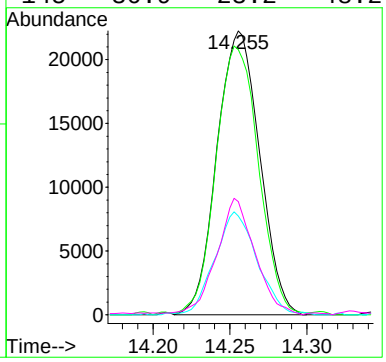




#99
1,2,3-Trichlorobenzene
Concen: 8.80 ppb
RT: 14.255 min Scan# 4696
Delta R.T. -0.003 min
Lab File: V737509.D
Acq: 22 Dec 2019 4:34 pm

Tgt Ion:180 Resp: 42992

Ion	Ratio	Lower	Upper
180	100		
182	92.9	62.0	128.8
74	36.0	18.9	39.1
145	36.9	23.2	48.2



BENCHSHEETS

SDG: 19L0677

CLASS: VOA

METHOD: EPA 8260C

PREPARATION BENCH SHEET-AQUEOUS: BL91221

Prepared: **12/22/2019 07:30**

York Analytical Laboratories, Inc.

Printed: 12/26/2019 9:09:57AM

Matrix: Water **Preparation EPA 5030B** **Surrogate used: Y19H536** **1** **ul**

Lab Number	Analysis	Initial (mL)	Final (mL)	Spike 1 ID	ul Spike 1	Spike 2 ID	ul Spike 2	Source ID	pH Data			Decanted Y/N	Comments
									Initial	Acid	Basic		
19L0664-01 A	Volatile Organics, (	25	25							<2	NA		
19L0664-02 A	Volatile Organics, (	25	25							<2	NA		
19L0664-03 A	Volatile Organics, (	25	25							<2	NA		
19L0664-04 A	Volatile Organics, (	25	25							<2	NA		
19L0664-05 A	Volatile Organics, (	25	25							<2	NA		
19L0677-01 A	VOA, 8260 LOW M	25	25							<2	NA		
19L0677-01 A	Volatile Organics, (	25	25							<2	NA		Added for BatchQC in: BL91221
19L0677-02 A	VOA, 8260 LOW M	25	25							<2	NA		
19L0677-03 A	VOA, 8260 LOW M	25	25							<2	NA		
19L0677-04 A	VOA, 8260 LOW M	25	25							<2	NA		
19L0677-05 A	VOA, 8260 LOW M	25	25							<2	NA		
19L0677-06 A	VOA, 8260 LOW M	25	25							<2	NA		
19L0677-07 A	VOA, 8260 LOW M	25	25							<2	NA		
19L0677-08 A	VOA, 8260 LOW M	25	25							<2	NA		
BL91221-BLK1	QC	25	25							7	NA		
BL91221-BS1	QC	25	25	Y19L133	5					<2	NA		
BL91221-BS2	QC	25	25	Y19L133	5					7	NA		
BL91221-BSD1	QC	25	25	Y19L133	5					<2	NA		
BL91221-BSD2	QC	25	25	Y19L133	5					7	NA		
BL91221-MS1	QC	25	25	Y19L133	5			19L0677-01		<2	NA		
BL91221-MSD1	QC	25	25	Y19L133	5			19L0677-01		<2	NA		

Reagents:

ID Number	Description	Lot Number	ID Number	Description	Lot Number
Y18B221	Antifoam B Silicone Emulsion	0000171560	Y19L056	40mL HCL Pre-Preserved Vials	2515

Preparation Performed by **MAT** **Date:** **12/22/2019 07:30**

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

The Chazen Companies
547 River Street
Troy, NY 12180
ATTN: Mr. Will Olsen
wolsen@chazencompanies.com

January 30, 2020

SUBJECT: Katonah Municipal, Data Usability Summary Report

Dear Mr. Olsen,

Enclosed is the final validation report for the fraction listed below. This SDG was received on January 6, 2020. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #46961:

SDG #	Fraction
19L0677	Volatiles

The data validation was performed under Category B guidelines using quality control summaries provided by the laboratory. The analyses were validated using the following documents, as applicable to each method:

- USEPA Region 2 Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C, SOP HW-24, Revision 4; October 2014
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review; EPA 540-R-2017-002; January 2017
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014

Please feel free to contact us if you have any questions.

Sincerely,

Christina Rink

Christina Rink
crink@lab-data.com
Project Manager/Senior Chemist

Attachment 1

Category B	EDD	LDC#46961 (Chazen Companies, Poughkeepsie, NY / Katonah Municipal)																																					
LDC	SDG#	DATE REC'D	(3) DATE DUE	VOA (8260C)																																			
Matrix: Water/Soil				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	19L0677	01/06/20	01/27/20	8	0																																		
Total	J/CR			8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8

Shaded cells indicate Category B validation (all other cells are Category A validation). These sample counts do not include MS/MSD, and DUPs

Site: Katonah Municipal
Laboratory: York Analytical Laboratories, Inc.
Report No.: 19L0677
Reviewer: Pei Geng and Christina Rink/Laboratory Data Consultants for Chazen Companies – Poughkeepsie, NY
Date: January 27, 2020

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
KMW-MW-4R	19L0677-01	VOC
KMW-MW-11R	19L0677-02	VOC
KMW-MW-2S	19L0677-03	VOC
KMW-MW-1S	19L0677-04	VOC
KMW-PW	19L0677-05	VOC
KMW-FD	19L0677-06	VOC
KMW-EB	19L0677-07	VOC
KMW-TB	19L0677-08	VOC
KMW-MW-4RMS	19L0677-01MS	VOC
KMW-MW-4RMSD	19L0677-01MSD	VOC

Associated QC Samples(s):
Field/Trip Blanks: KMW-EB, KMW-TB
Field Duplicate pair: KMW-MW-4R and KMW-FD

The above-listed water samples were collected on December 16, 2019 and were analyzed for volatile organic compounds (VOC) by SW-846 method 8260C. The data validation was performed in accordance with the USEPA Region 2 *Standard Operating Procedure for Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-Method 8260B and 8260C,* SOP HW-24, Revision 4 (October 2014) and the USEPA *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,* EPA 540-R-2017-002 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

Initial Calibration:

All criteria were met.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
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- Field Duplicate Results
- Quantitation Limits and Data Assessment
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Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

Initial Calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	IC %D	Associated Samples		Validation Action
12/13/19	V737230	Bromomethane	30.4	KMW-MW-4R	SS	UJ nondetects
		Dichlorodifluoromethane	65.5	KMW-MW-11R	SS	UJ nondetects
				KMW-MW-2S		
				KMW-MW-1S		
				KMW-PW		
				KMW-FD		
				KMW-EB		
				KMW-TB		

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The bromomethane and dichlorodifluoromethane results were estimated due to second source calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Continuing calibration:

Compounds that did not meet criteria are summarized in the following table.

Date	Instrument ID	Compound	CC %D	Associated Samples		Validation Action
12/22/19	V737505	1,2,3-Trichlorobenzene	23.8	KMW-MW-4R	XX	UJ nondetects
		2-Butanone	52.2	KMW-MW-11R	XX	UJ nondetects
		Chloroethane	22.2	KMW-MW-2S	XX	UJ nondetects
		Chloromethane	53.3	KMW-MW-1S	XX	UJ nondetects
		Dichlorodifluoromethane	56.1	KMW-PW	XX	UJ nondetects
		Trichlorofluoromethane	20.9	KMW-FD	XX	UJ nondetects
		Vinyl chloride	33.2	KMW-EB	XX	UJ nondetects
				KMW-TB		

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J/UJ) positive and nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 20; estimate (J/UJ) positive and nondetect results.
SS = Second source verification percent difference (%D) > 30; estimate (J/UJ) positive and nondetect results.
+ = Response factor (RRF) < validation criteria; estimate (J/UJ) positive and nondetect results.

The 1,2,3-trichlorobenzene, 2-butanone, chloroethane, chloromethane, dichlorodifluoromethane, trichlorofluoromethane, and vinyl chloride results were estimated due to continuing calibration exceedances. The bias cannot be determined. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

Blanks

Contamination was not detected in the method blanks.

Contamination was detected in the trip blank sample KMW-TB for VOC analysis. The presence of blank contamination indicates that false positives may exist for these compounds in the associated samples. Action Levels (ALs) were established at <2x reporting limits (RL) (for common contaminants) and <RL (for other contaminants) of the concentrations detected. The following table summarizes the contamination detected.

Field Blank ID	Compound	Level Detected	Action Level	Associated Samples
KMW-TB	Methyl acetate	0.320 ug/L	RL	KMW-MW-4R KMW-MW-11R KMW-MW-2S KMW-MW-1S KMW-PW KMW-FD KMW-EB

Sample results were qualified as follows:

- If sample concentration was < the reporting limit (RL) and ≤ the Action Level, qualify the result as a nondetect (U) at the RL.
- If sample concentration was > the RL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.

No samples were qualified since the associated sample results were nondetect.

No positive results were found in the equipment blank sample KMW-EB for VOC analysis.

Surrogate Recoveries

All criteria were met.

MS/MSD Results

MS/MSD analyses were performed on sample KMW-MW-4R for VOC analysis. The following table lists the MS/MSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

MS ID	Compound	MS %R (Limits)	MS/D %R (Limits)	Affected Sample	Validation Action
KMW-MW-4RMS/MSD	Dichlorodifluoromethane	162 (30-147)	173 (30-147)	KMW-MW-4R	None

- Within control limits

Validation action was not required for dichlorodifluoromethane due to high MS/MSD recoveries as positive results only are affected and this compound was not detected in the associated sample.

LCS Results

The following table lists the LCS/LCSD percent recoveries (%R) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	LCS %R (Limits)	LCS/D %R (Limits)	Affected Sample	Validation Action
BL91221-BS1	Dichlorodifluoromethane	219 (44-144)	213 (44-144)	KMW-MW-4R KMW-MW-11R KMW-MW-2S KMW-MW-1S KMW-PW KMW-FD KMW-EB KMW-TB	None
BL91221-BS1	1,2-Dibromoethane	-	5.90 (73-132)	KMW-MW-4R KMW-MW-11R KMW-MW-2S KMW-MW-1S KMW-PW KMW-FD KMW-EB KMW-TB	UJ nondetects
BL91221-BS2	Dichlorodifluoromethane	200 (44-144)	-	KMW-MW-4R KMW-MW-11R KMW-MW-2S KMW-MW-1S KMW-PW KMW-FD KMW-EB KMW-TB	None
BL91221-BS2	Methyl acetate	142 (51-139)	-	KMW-TB	J detects
BL91221-BS2	Methyl acetate	142 (51-139)	-	KMW-MW-4R KMW-MW-11R KMW-MW-2S KMW-MW-1S KMW-PW KMW-FD KMW-EB	None

- Within control limits

The 1,2-dibromoethane results may be biased low due to low LCS/LCSD percent recoveries. The results can be used for project objectives as nondetects with estimated quantitation limits (UJ) which may have a minor impact on the data usability.

The methyl acetate results may be biased high due to high LCS/LCSD percent recoveries. The results can be used for project objectives as estimated values (J) which may have a minor impact on the data usability.

Validation action was not required for dichlorodifluoromethane and methyl acetate due to high LCS/LCSD recoveries as positive results only are affected and these compounds were not detected in the associated samples.

The following table lists the LCS/LCSD relative percent differences (RPD) outside of control limits in the VOC analysis and the resulting validation actions.

LCS ID	Compound	RPD (Limits)	Affected Sample	Validation Action
BL91221-BS1	1,2-Dibromoethane	180 (≤30)	KMW-MW-4R KMW-MW-11R KMW-MW-2S KMW-MW-1S KMW-PW KMW-FD KMW-EB KMW-TB	None

Validation action was not required for 1,2-dibromoethane due to LCS/LCSD relative percent difference exceedances as positive results only are affected and this compound was not detected in the associated samples.

Internal Standards

All criteria were met.

Field Duplicate Results

Samples KMW-MW-4R and KMW-FD were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

Compound	Concentration (ug/L)		RPD
	KMW-MW-4R	KMW-FD	
Tetrachloroethene	3.59	3.59	0

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis. These results were qualified as estimated (J) by the laboratory.

Dilutions were not required for VOC analysis.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

LDC #: 46961A1a **VALIDATION COMPLETENESS WORKSHEET** Date: 1/23/20
SDG #: 19L0677 Category B Page: 1 of 1
Laboratory: York Analytical Laboratory, Inc. Reviewer: 1
2nd Reviewer: 2

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260C)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A A	RSD ≤ 20%. r² ICV ≤ 30%
IV.	Continuing calibration	SW	CCV ≤ 20%
V.	Laboratory Blanks	A	
VI.	Field blanks	SW	EB = 7. TB = 8
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	SW	
IX.	Laboratory control samples	SW	LCS/D
X.	Field duplicates	SW	D = 1 + 6
XI.	Internal standards	A	
XII.	Compound quantitation RL/LOQ/LODs	A	results < RL - J dets/D
XIII.	Target compound identification	A	
XIV.	System performance	A	
XV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	KMW-MW-4R	19L0677-01	Water	12/16/19
2	KMW-MW-11R	19L0677-02	Water	12/16/19
3	KMW-MW-2S	19L0677-03	Water	12/16/19
4	KMW-MW-1S	19L0677-04	Water	12/16/19
5	KMW-PW	19L0677-05	Water	12/16/19
6	KMW-FD	19L0677-06	Water	12/16/19
7	KMW-EB	19L0677-07	Water	12/16/19
8	KMW-TB	19L0677-08	Water	12/16/19
9	KMW-MW-4RMS	19L0677-01MS	Water	12/16/19
10	KMW-MW-4RMSD	19L0677-01MSD	Water	12/16/19
11				
12	BLG/221-BK1			
13				

LDC #: 46961A19

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 9
2nd Reviewer: 0

Method: Volatiles (EPA SW 846 Method 8260C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical hold ing times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB perform ance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 30%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target compounds detected in the field blanks?	✓			
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target compounds detected in the field duplicates?	✓			
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methyl cyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 46961A/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer: C

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?
Y N N/A Were all %D within the validation criteria of ≤30 %D?

#	Date	Standard ID	Compound	Finding %D (Limit: <30.0%)	Associated Samples	Qualifications
	12/13/9	VT37230	B	30.4	All (ND)	J/UJ/A
			VV	65.5		V

ICVvoa_8260C.wpd

LDC #: 46961A19

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: 9
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	12/22/19	VT37505	NNN	23.8		All CN01	J/UJ/A
			M	52.2			
			D	22.2			
			A	53.3			
			VJ	56.1			
			tk	20.9			
			e	33.2			

LDC #: 16968A1a

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: 9
2nd Reviewer: 3

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

(Y) N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?

Blank units: ug/L **Associated sample units:** ug/L
Sampling date: 12/16/19
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other:_____ Associated Samples: 1-7

Compound	Blank ID	Sample Identification								
	B									
Acetone										
Methylene chloride										
Chloroform										
QQQQ	0.320									

Blank units:_____ **Associated sample units:**_____
Sampling date:_____
Field blank type: (circle one) Field Blank / Rinsate / Trip Blank / Other:_____ Associated Samples:_____

Compound	Blank ID	Sample Identification								
Acetone										
Methylene chloride										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: ~~4696A~~ /9

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

(Y) N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		9/10	W	162 (30-147)	173 (30-147)	( )	1 (ND)	~~J dets/A~~
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC #: ~~46968~~ 8/9

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: 9
2nd Reviewer: C

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a LCS required?
Y (N) N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		BL91221-BS1	VN	219 (44-144)	213 (44-144)	( )	All (ND)	dets/P
			TT	( )	5.90 (73-132)	( )		J/UN/P *
			TT	( )	( )	180 (≤30)		dets/P
				( )	( )	( )		
		BL91221-BS2	VN	200 (44-144)	( )	( )		
			QQQQ	142 (51-139)	( )	( )	All (ND)	dets/P
				( )	( )	( )	(dets=8)	V
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		* LCS in BL91221-BS2
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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LDC#: 46961A/9

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: 9
2nd Reviewer:

METHOD: GCMS VOA (EPA Method 8260C)

Compound	Concentration (ug/L)		RPD
	1	6	
AA	3.59	3.59	0

V:\FIELD DUPLICATES\Field Duplicates\FD_Organics\2020\46961Aa.wpd

LDC #: 46961A1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PG
2nd Reviewer: _____

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (10 std)	Recalculated RRF (10 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/17/19	V (1st internal standard)	5.415066	5.415066	5.724864	5.724864	8.764375	8.764
	(MSVOA7)		DD (2nd internal standard)	1.001528	1.001528	1.051314	1.051314	9.556579	9.557
			HHH (3rd internal standard)	2.081666	2.081666	2.247666	2.247666	11.06909	11.0691
			(4th internal standard)						
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 46961A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: PG
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	V737505	12/22/19	V (1st internal standard)	5.724864	6.399285	6.399285	11.8	11.8
			DD (2nd internal standard)	1.051314	1.119832	1.119832	6.5	6.5
			HHH (3rd internal standard)	2.247666	2.391677	2.391677	6.4	6.4
			(4th internal standard)					
2			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(1st internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 46961A1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: Q
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 7

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	10.00	9.73	97.3	97.3	
Toluene-d8	↓	9.94	99.4	99.4	
Bromofluorobenzene	↓	10.72	107	107	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 46968B6

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSC I * 2/(MSC + MSDC)

MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD sample: 9/10

Compound	Spike Added (VA1)		Sample Concentration (MA)	Spiked Sample Concentration (VA2)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	10.0	10.0	ND	12.1	12.3	121	121	123	123	2.05	1.64
Trichloroethene	↓	↓	↓	11.4	11.8	114	114	118	118	3.87	3.45
Benzene				11.6	11.9	116	116	119	119	2.79	2.55
Toluene				11.1	12.0	111	111	120	120	7.27	7.79
Chlorobenzene				10.6	11.3	106	106	113	113	6.12	6.39

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 46961A9a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: 9
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: BL9122-BS1

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	10.0	10.0	11.8	10.7	118	118	107	107	10.2	10.7
Trichloroethene	↓	↓	10.4	10.7	104	104	107	107	1.99	2.84
Benzene			11.4	10.3	114	114	103	103	9.87	10.1
Toluene			11.0	10.3	110	110	103	103	6.49	6.57
Chlorobenzene			10.4	10.4	104	104	104	104	0.0957	0

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 46964A9

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: _____

METHOD: GC/MS VOA (EPA SW 846 Method 8260C)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 4 , S :

Conc. = $\frac{(4872)(10.0)(1)}{(289618)(0.3574166)(1)}$

= 0.471 ug/L

#	Sample ID	Compound	Reported Concentration (464)	Calculated Concentration ( )	Qualification
	4	S	0.47		