

**BUILDING 339
JANE BAKES
INDOOR AIR QUALITY TESTING
SUMMARY REPORT**

**AT
iPARK 84
FORMER IBM EAST FISHKILL FACILITY**

**DECEMBER 2019
(UPDATED MARCH 2021 TO INCLUDE
DATA USABILITY SUMMARY REPORT)**

PREPARED FOR:

**JESSICA LACLAIR
NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
DEPT. OF ENVIRONMENTAL REMEDIATION
625 BROADWAY
ALBANY, NEW YORK 12233-7013**

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
Industry Leader in Environmental Engineering Consulting

———— PROACTIVE SOLUTIONS SINCE 1995 ————



Sent via email to jess.laclair@dec.ny.gov

December 6, 2019
iPARK0118.34

Ms. Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility
Building 339 - Jane Bakes
Indoor Air Quality Testing Summary Report

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter on behalf of iPark East Fishkill LLC (iPark) to summarize the results of the indoor air quality (IAQ) testing conducted on December 2, 2019 in Building 339 at the Former IBM East Fishkill facility (Facility). Building 339 is owned by iPark; Jane Bakes is leasing this building, where it will perform bakery manufacturing and packaging operations. Refer to Figure 1 for the site location map. IAQ testing was conducted in the Jane Bakes space prior to tenant occupancy as required by NYSDEC and NYSDOH. The purpose of the testing was to verify that IAQ is acceptable before the tenant takes occupancy and begins operating in Building 339.

Walden, at the request of iPark, performed the IAQ testing in accordance with prescribed protocols previously approved by NYSDEC. All work was performed in accordance with the *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan* (RFI Work Plan) dated June 15, 2009, prepared by Sanborn, Head Engineering, PC and Walden's IAQ Testing Plan letter (Testing Plan) dated November 20, 2019 which was approved by NYSDEC on November 22, 2019.

Summary of HVAC Conditions Within the Building

Building 339 is served by two (2) packaged 6-ton rooftop handling units (RTU) on the roof and one (1) 2-ton, 3-zone ductless split unit; iPark installed the HVAC equipment during the recent renovation work. The Jane Bakes HVAC system is comprised of 17 supply diffusers with a total



cooling capacity of 6,035 CFM, and a calculated 5.99 air changes per hour for the space as a whole. During the December 2nd IAQ sampling, iPark operated the HVAC system under the same conditions anticipated during normal operations once the tenant takes occupancy.

Summary of IAQ Testing

IAQ testing was conducted in accordance with the procedures outlined in the NYSDEC-approved RFI Work Plan and Testing Plan. Samples were collected using 6-liter, individually certified clean, stainless-steel Summa[®] canisters (Summa[®] Canisters). The Summa[®] Canisters were calibrated by the laboratory with flow controllers to obtain 8-hour time-averaged samples. Indoor air samples were collected from a height of approximately 2.5 feet above the ground surface at the following seven (7) locations throughout the Jane Bakes space, which are depicted on Figure 2:

Sample ID	Sampling Area
IA-1	Northern section of building; near freezer area
IA-2	Northern section of building; near oven area
IA-3	Middle section of building; in western office area
IA-4	Middle section of building; in eastern office area
IA-5	Middle section of building; in kitchen
IA-6	Southern section of building; western portion near extruders/mixers area
IA-7	Southern section of building; eastern portion in open area

A duplicate sample (DUPLICATE) was collected at location IA-7. Additionally, one outdoor ambient air sample (AMBIENT AIR) was collected during the investigation at one of the Building 339 rooftop air intakes for the HVAC system to assess the potential impact of background conditions on the IAQ results. A field blank was also collected by transferring lab-grade nitrogen directly from a compressed gas canister into a Summa[®] Canister.

PID readings were collected at each sample location immediately before sample collection began to evaluate whether VOCs were present in the Jane Bakes space and had the potential to impact the IAQ results. PID concentrations of 0.1 ppm were recorded at the indoor air sampling locations. These PID screening measurements indicated no apparent air quality impacts. The only odor noted during the December 2nd sampling event was a paint odor in the eastern office area near sample location IA-4 as a result of the recently completed construction work; no other odors were noted in the building. The only chemicals observed in the building were four (4) sealed 5-gallon buckets of paint in the corner of the kitchen area near sample location IA-5; no odors were observed at this location.

Ms. Jessica LaClair
Building 339 Jane Bakes IAQ Testing
December 6, 2019

- 3 -



All samples were transferred to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) under chain of custody for analysis of volatile organic compound (VOC) analytes via modified Method TO-15 as specified in the June 2009 *RFI Work Plan*.

Please see Table 1 for a summary of field sampling information, Table 2 for a summary of the IAQ analytical data, Attachment 1 for a photographic log of the sampling locations, and Attachment 2 for the full laboratory analytical report. A Data Usability Summary Report (DUSR) is being prepared and will be submitted under separate cover.

Results and Discussion

The Jane Bakes IAQ analytical data were compared to the typical indoor air background concentrations published in USEPA's 2001 Building Assessment and Survey Evaluation (BASE) database. When developing BASE, USEPA collected indoor air samples at randomly selected office and commercial buildings using Summa[®] canisters. Table 2 presents the Jane Bakes IAQ data compared to the 75th, 90th, 95th and 99th percentile indoor air BASE concentrations for reference in comparing the VOC data to typical indoor background concentrations.

All of the VOC concentrations detected in the Jane Bakes IAQ samples were below the 75th percentile background concentrations listed in the USEPA BASE database as noted in Table 2, indicating that indoor air quality is acceptable. Based on the results from the Jane Bakes pre-occupancy IAQ testing presented herein, please confirm that Building 339 is suitable for occupancy by the tenant.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,
Walden Environmental Engineering, PLLC

A handwritten signature in black ink, appearing to read "Nora M. Brew". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Nora M. Brew, P.E.
Senior Project Manager

Ms. Jessica LaClair
Building 339 Jane Bakes IAQ Testing
December 6, 2019

- 4 -



Attachments:

Figure 1 – Site Location Map

Figure 2 – Sampling Locations

Table 1 – Summary of Field Information

Table 2 – Summary of IAQ Analysis (Updated based on DUSR)

Attachment 1 – Photographic Log of Sampling Locations

Attachment 2 – Laboratory Analytical Report (Category B Deliverables)

Attachment 3 - Data Usability Summary Report (added March 2021)

cc: J. Kenney, NYSDOH
C. Monheit, iPark East Fishkill LLC
M. Buckley, iPark East Fishkill LLC
D. Chartrand, IBM

Z:\iPark0118\iPark0118.34 - Bldg 339 Fitup\IAQ Sampling Report\Summary Report\Bldg 339 IAQ Testing Report 12.6.2019.docx

Figure 1
Site Location Map



LOCATION MAP

N.T.S.

SOURCE: WWW.GOOGLEMAPS.COM



SITE PLAN

N.T.S.

REVISION		
No.	DATE	COMMENTS

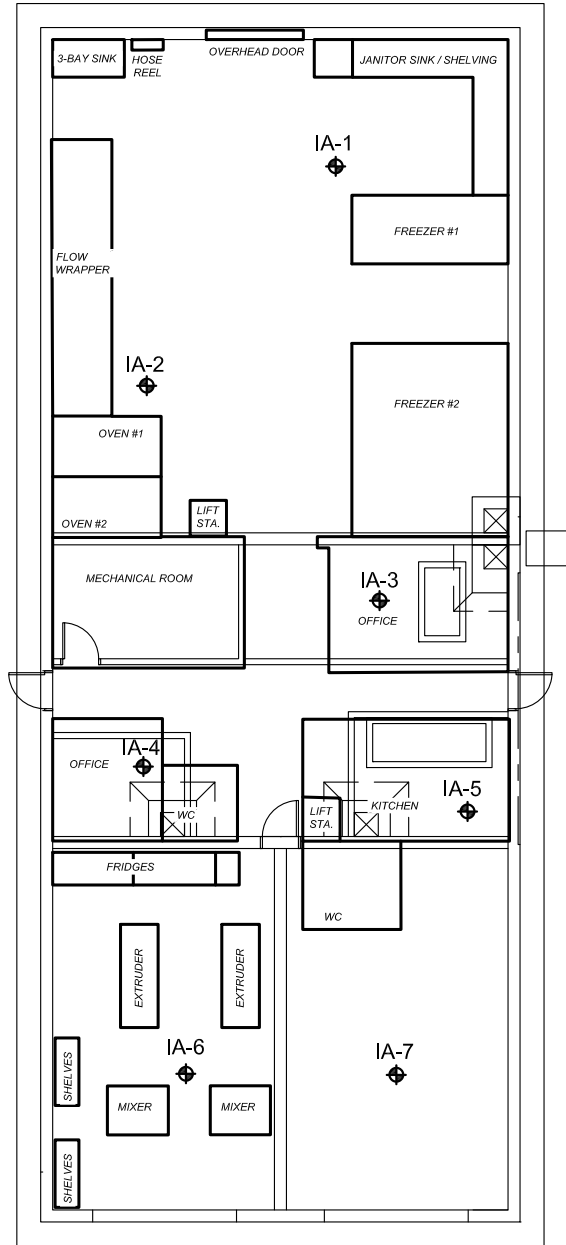
FOR:		BUILDING 339	
		iPark 84 Campus	
		2070 State Route 52	
		Hopewell Junction, NY 12533	
DESIGNED BY:	NMB	DRAWN BY:	EJK / LTG
APPROVED BY:	JMH	SCALE:	AS NOTED

FIGURE TITLE:			FIGURE NO:		ISSUED	
SITE PLAN BUILDING 339 PRE-OCCUPANCY IAQ TESTING			1		REVISION NO:	
					0	
JOB NO: IPARK0118.34		DATE: 12/5/19		11x17 SHEET NO: 1 OF 2		
CAD FILE NAME: Z:\Park\0118\IPark\0118.34 - Bldg 339 Floorplan\0118.34 SITE PLAN FOR REPORT.dwg						

Figure 2
Sampling Locations

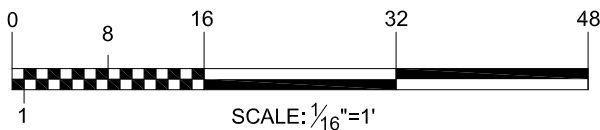
NOTES:

1. AMBIENT AIR SAMPLE WAS COLLECTED OUTDOORS ON THE BUILDING ROOF, ADJACENT TO THE HVAC AIR INTAKE.
2. A DUPLICATE SAMPLE WAS COLLECTED AT SAMPLE LOCATION IA-7.



**BUILDING 339 INDOOR
AIR SAMPLE LOCATIONS**

SCALE: $\frac{1}{16}" = 1'-0"$



LEGEND:



INDOOR AIR SAMPLING LOCATIONS



WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771

Walden Environmental Engineering P: (516) 624-7200 F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

FOR:

**BUILDING 339
iPARK 84 CAMPUS
2070 State Route 52
Hopewell Junction, NY 12533**

FIGURE TITLE:

**BUILDING 339: INDOOR
AIR SAMPLE LOCATIONS**

FIGURE NO:

2

DESIGNED BY: NMB

DRAWN BY: LS / LTG

JOB NO: iPARK0118.34

DATE: 12/5/19

8 1/2 x 11

SHEET NO: 2 OF 2

APPROVED BY: NMB

SCALE: AS NOTED

CAD FILE NAME: Z:\iPark0118\iPark0118.34 - Bldg 339 Floor\FOR NMB\iPARK339_SAMPLE LOC FOR REPORT.dwg

Table 1

Summary of Field Information

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 1
SUMMARY OF INDOOR AIR SAMPLE INFORMATION
BUILDING 339-JANE BAKES SPACE
DECEMBER 2, 2019

Sample Location	Building Floor	Sample Matrix	Canister Number	Regulator Number	Sample Height (feet above floor)	Start Time (24-hour format)	Start Pressure (mmHg)	PID Reading (ppm)	Stop Time (24-hour format)	Stop Pressure (mmHg)	Temperature (°F)	Location Description	Chemicals Observed Near Sample Location
IA-1	Ground	Indoor Air	23318	6985	2.5	0902	-29	0.1	1703	-4.5	65	Northern section, near freezer area	None observed
IA-2	Ground	Indoor Air	13645	6991	2.5	0901	-29	0.1	1647	.3.5	65	Northern section, near oven area	None observed
IA-3	Ground	Indoor Air	216	5385	2.5	0855	>-30	0.1	1517	-3.5	65	Western office area	None observed
IA-4	Ground	Indoor Air	2359	5390	2.5	0904	>-30	0.1	1705	-6.5	65	Eastern office area	None observed
IA-5	Ground	Indoor Air	19632	5621	2.5	0857	-29	0.1	1633	-3.5	65	Middle section, kitchen area	Four 5-gallon buckets of paint (all sealed)
IA-6	Ground	Indoor Air	13648	5380	2.5	0859	-29.5	0.1	1659	-6	65	Southern section, near mixer area	None observed
IA-7	Ground	Indoor Air	28617	6993	2.5	0858	-29.5	0.1	1658	-3.5	65	Southern section, open area	None observed
Duplicate	Ground	Indoor Air	23327	4956	2.5	0853	-30	0.1	1653	-5	65	Southern section, open area	None observed
Ambient Air	Building 339 Roof	Ambient Air	17159	5521	1	0849	-28	0.0-0.1	1607	-3.5	31	Building Roof	None observed
Field Blank	Ground	Nitrogen	13642	3502	2.5	0918	-29	0.1	1025	-5	65	Middle section, open area	None observed

Table 2
Summary of IAQ Analysis
(Updated based on DUSR)

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 2
SUMMARY OF IAQ ANALYSIS
BUILDING 339 - JANE BAKES

CAS Registry Number		NYSDOH Air Guideline Value	USEPA BASE Database Tables - Typical Background Concentrations for Indoor Air				Collection Date Sample ID Matrix Location Units	12/2/2019		12/2/2019		12/2/2019		12/2/2019		12/2/2019		12/2/2019		12/2/2019		12/2/2019		12/2/2019		12/2/2019	
								IA-1 Air		IA-2 Air		IA-3 Air		IA-4 Air		IA-5 Air		IA-6 Air		IA-7 Air		Duplicate Air		AA Air		Field Blank Air	
			Northern Section		Northern Section			Western Office		Eastern Office		Middle Section Kitchen		Southern Section		Southern Section		Southern Section		Building Roof		Middle Section- Open Area					
			Result	RL	Result	RL		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Volatiles (TO15) By TO15																											
1,1,1-Trichloroethane	71-55-6		10.8	20.6	33.0	737.9	ug/m3	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09
1,1-Dichloroethene	75-35-4		<1.2	<1.4	<1.6	<1.7	ug/m3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
1,2,4-Trichlorobenzene	120-82-1		<1.2	<6.8	<7.2	<8.1	ug/m3	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85
1,2-Dichlorobenzene	95-50-1		<1.0	<1.2	<1.3	10.5	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90
1,3-Dichlorobenzene	541-73-1		<1.1	<2.4	<2.5	<2.8	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90
1,4-Dichlorobenzene	106-46-7		1.4	5.5	12.5	80.5	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90
Acetone	67-64-1		59.8	98.9	120.2	226.6	ug/m3	9.33	2.37	10.9	2.37	16.3	2.37	18	2.37	23.2	2.37	12.2	2.37	16.1	2.37	17.1	2.37	< 2.37	2.37	< 2.37	2.37
Benzene	71-43-2		5.1	9.4	12.5	25.0	ug/m3	0.43	0.16	0.36	0.16	0.43	0.16	0.46	0.16	0.39	0.16	< 0.16	0.16	0.42	0.16	0.43	0.16	0.49	0.16	0.19	0.16
Carbon Tetrachloride	56-23-5		<1.1	<1.3	0.7	0.9	ug/m3	0.43	0.13	0.46	0.13	0.47	0.13	0.47	0.13	0.46	0.13	0.44	0.13	0.47	0.13	0.48	0.13	0.47	0.13	< 0.13	0.13
Chlorobenzene	108-90-7		<0.8	<0.9	<1.0	1	ug/m3	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92
Cis-1,2-Dichloroethene	156-59-2		<1.2	<1.9	<2.0	<2.2	ug/m3	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79	< 0.79	0.79
Dichlorodifluoromethane	75-71-8		10.5	16.5	32.9	81.3	ug/m3	2.14	0.99	2.23	0.99	2.44	0.99	2.35	0.99	2.37	0.99	1.49	0.99	2.43	0.99	2.51	0.99	2.18	0.99	< 0.99	0.99
Ethylbenzene	100-41-4		3.4	5.7	7.6	18.5	ug/m3	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65
m,p-Xylene	179601-23-1		12.2	22.2	28.5	67.6	ug/m3	0.85	0.65	0.71	0.65	0.88	0.65	0.78	0.65	0.78	0.65	< 0.65	0.65	0.7	0.65	0.7	0.65	< 0.65	0.65	1.14	0.65
Methylene Chloride	75-09-2	60	5.0	10.0	16.0	1155.6	ug/m3	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39
o-Xylene	95-47-6		4.4	7.9	11.2	20.1	ug/m3	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65
Tetrachloroethene	127-18-4	30	5.9	15.9	25.4	55.6	ug/m3	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	0.89	0.68
Toluene	108-88-3		25.9	43.0	70.8	348.9	ug/m3	1.24	0.75	1.32	0.75	1.35	0.75	2.92	0.75	1.26	0.75	1.43	0.75	1.33	0.75	1.32	0.75	< 0.75	0.75	1.02	0.75
Trichloroethene	79-01-6	2	1.2	4.2	6.5	57.0	ug/m3	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20
Trichlorofluoromethane	75-69-4		6.7	18.1	54.0	860.6	ug/m3	1.15	0.84	1.33	0.84	1.45	0.84	1.48	0.84	1.42	0.84	1.17	0.84	1.3	0.84	1.53	0.84	1.41	0.84	< 0.84	0.84
Trichlorotrifluoroethane	76-13-1		<3.0	3.5	9.4	19.7	ug/m3	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15
Vinyl Chloride	75-01-4		<1.0	<1.9	<2.2	<2.6	ug/m3	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05

Notes:

Concentrations are provided in micrograms per cubic meter (µg/m³).

Highlighted analytes are included in the NYSDOH Decision Matrices.

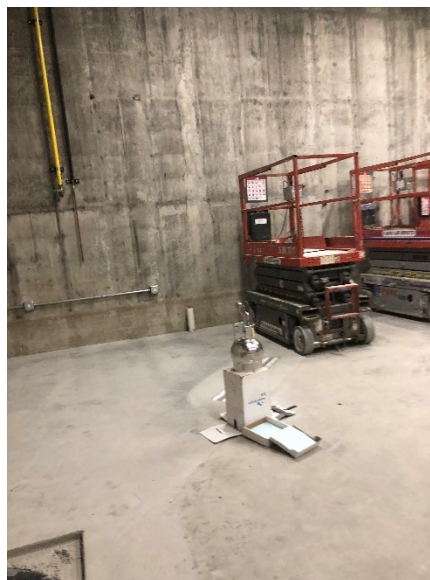
Result Detected

Attachment 1
Photographic Log of Sampling Locations

Site Photographs



Photograph #1: IA-1 Sampling
Location in northern section, near
freezer area



Photograph #2: IA-2 Sampling
Location in northern section, near
oven area



Photograph #3: IA- 3 Sampling
Location in western office area



Photograph #4: IA-4 Sampling
Location in eastern office area

Site Photographs (continued)



Photograph #5: IA-5 Sampling
Location in middle section, kitchen
area (Note 4 sealed buckets of
paint in the corner of this area).



Photograph #6: IA-6 Sampling
Location in southern section, west side



Photograph #7: IA-7 Sampling
Location in southern section, east
side near mixer area. Duplicate
sample collected at this location.



Photograph #8: Ambient Air
Sampling Location on roof

Site Photographs (continued)



Photograph #9: Sealed paint buckets located in corner near IA-5 (no odors noted in this location)



Photograph #10: Sealed paint buckets located in corner near IA-5 (no odors noted in this location)

ATTACHMENT 2
LABORATORY ANALYTICAL REPORT (CATEGORY B DELIVERABLES)



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Walden Environmental Engineering PLLC
JANE BAKES IAQ IPARK HOPEWELL JCT.

GCE70607

Ver 1

Data Package Table of Contents

GCE70607 Analytical Report	4
Cover Letter	4
Project Summary	5
Sample Id Cross Reference	8
Analytical Report	9
Canister Sampling Information	29
QA/QC Report	30
Sample Criteria Exceedances Report	32
COC-GCE70607	33
email-GCE70607	34
GCE70607 Air V1	35
Organic Flags	36
Non-Conformance Summary	37
Monitoring Compound Recovery (Form 2)	40
CE70607 - Batch 508754	40
CE81151 - Batch 509344	41
Spike Recovery (Form 3)	42
CE70607 LCS	42
CE81151 LCS	43
Method Blank Summary (Form 4)	44
CE70607 BLK - Batch 508754 12/04/19 05:38	44
CE81151 BLK - Batch 509344 12/09/19 02:32	45
Tune Summary (Form 5)	46
CHEM20 - 1204_02.D	46
CHEM20 - 1204_13.D	48
CHEM24 - 1207_02.D	50
CHEM24 - 1208_02.D	52
Internal Standard (Form 8)	54
CHEM20 - 12/04/19 02:38	54
CHEM24 - 12/07/19 22:22	58
CHEM24 - 12/08/19 23:01	60
Analysis Data Sheet (Form 1)	62
CE70607 / IA-1	62
CE70608 / IA-2	70
CE70609 / IA-3	78

CE70610 / IA-4	86
CE70611 / IA-5	94
CE70612 / IA-6	102
CE70613 / IA-7	113
CE70614 / AMBIENT AIR	121
CE70615 / FILED BLANK	128
CE70616 / DUPLICATE	135
Initial Calibration Summary (Form 6)	143
CHEM20	143
CHEM24	145
CHEM20 - 12/03/19	147
CHEM24 - 12/07/19	173
Continuing Calibration Summary (Form 7)	199
CHEM20 - 12/04/19 02:38	199
CHEM24 - 12/08/19 23:01	203
Analysis Data Sheet QC (Form 1)	207
CE70607 LCS	207
CE70607 LCSD	210
CE70607 BLANK	213
CE70607 DUP	216
CE81151 LCS	225
CE81151 LCSD	228
CE81151 QC	231
CE81151 BLANK	242
CE81151 DUP	245
Canister Cleaning Batch# 1605	264
Canister Cleaning Batch# 1606	269
Canister Cleaning Batch# 1617	274
Canister Cleaning Batch# 1618	279
Injection Log	284
Injection Log - CHEM20 09/24/01	284
Injection Log - CHEM20 12/04/01	286
Injection Log - CHEM24 12/30/99	287
Injection Log - CHEM24 09/09/01	288
Injection Log - CHEM24 12/08/01	289



Monday, June 08, 2020

Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
SDG ID: GCE70607
Sample ID#s: CE70607 - CE70616

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: Walden Environmental Engineering PLLC
Project: JANE BAKES IAQ IPARK HOPEWELL JCT.
Laboratory Project: GCE70607



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



NY Analytical Services Protocol Format

June 08, 2020

SDG I.D.: GCE70607

Walden Environmental Engineering PLLC JANE BAKES IAQ IPARK HOPEWELL JCT.

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



NY Analytical Services Protocol Format

June 08, 2020

SDG I.D.: GCE70607

Walden Environmental Engineering PLLC JANE BAKES IAQ IPARK HOPEWELL JCT.

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CE70607	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70608	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70609	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70610	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70611	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70612	Volatiles (TO15)	12/02/19	12/09/19	12/09/19	KCA	Y
CE70613	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70614	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70615	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y
CE70616	Volatiles (TO15)	12/02/19	12/04/19	12/04/19	KCA	Y



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

June 08, 2020

SDG I.D.: GCE70607

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.

Client Id	Lab Id	Matrix
IA-1	CE70607	AIR
IA-2	CE70608	AIR
IA-3	CE70609	AIR
IA-4	CE70610	AIR
IA-5	CE70611	AIR
IA-6	CE70612	AIR
IA-7	CE70613	AIR
AMBIENT AIR	CE70614	AIR
FILED BLANK	CE70615	AIR
DUPLICATE	CE70616	AIR



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 23318

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 17:03
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70607

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	3.93	1.00	1.00	9.33	2.37	2.37	12/04/19	KCA	1
Benzene	0.134	0.050	0.050	0.43	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.068	0.020	0.020	0.43	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.434	0.200	0.200	2.14	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.196	0.150	0.150	0.85	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	0.328	0.200	0.200	1.24	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.205	0.150	0.150	1.15	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	94	%	%	94	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	100	%	%	100	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	101	%	%	101	%	%	12/04/19	KCA	1

Client ID: IA-1

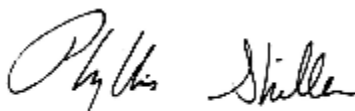
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	98	%	%	98	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 13645

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 16:47
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70608

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	4.59	1.00	1.00	10.9	2.37	2.37	12/04/19	KCA	1
Benzene	0.113	0.050	0.050	0.36	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.073	0.020	0.020	0.46	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.452	0.200	0.200	2.23	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.163	0.150	0.150	0.71	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	0.350	0.200	0.200	1.32	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.236	0.150	0.150	1.33	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	94	%	%	94	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	85	%	%	85	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	84	%	%	84	%	%	12/04/19	KCA	1

Client ID: IA-2

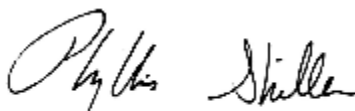
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	89	%	%	89	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 216

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 15:17
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70609

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	6.88	1.00	1.00	16.3	2.37	2.37	12/04/19	KCA	1
Benzene	0.134	0.050	0.050	0.43	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.074	0.020	0.020	0.47	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.494	0.200	0.200	2.44	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.202	0.150	0.150	0.88	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	0.359	0.200	0.200	1.35	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.259	0.150	0.150	1.45	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	96	%	%	96	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	82	%	%	82	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	80	%	%	80	%	%	12/04/19	KCA	1

Client ID: IA-3

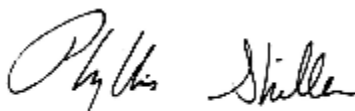
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	85	%	%	85	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 21359

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date Time
12/02/19 17:05
12/03/19 16:40

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70610

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	7.59	1.00	1.00	18.0	2.37	2.37	12/04/19	KCA	1
Benzene	0.143	0.050	0.050	0.46	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.074	0.020	0.020	0.47	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.475	0.200	0.200	2.35	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.179	0.150	0.150	0.78	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	0.774	0.200	0.200	2.92	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.264	0.150	0.150	1.48	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	95	%	%	95	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	82	%	%	82	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	80	%	%	80	%	%	12/04/19	KCA	1

Client ID: IA-4

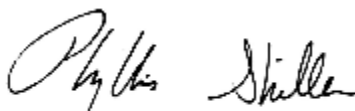
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	85	%	%	85	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 19632

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 16:33
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70611

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: IA-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	9.76	1.00	1.00	23.2	2.37	2.37	12/04/19	KCA	1
Benzene	0.122	0.050	0.050	0.39	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.073	0.020	0.020	0.46	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.480	0.200	0.200	2.37	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.179	0.150	0.150	0.78	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	0.335	0.200	0.200	1.26	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.253	0.150	0.150	1.42	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	96	%	%	96	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	80	%	%	80	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	79	%	%	79	%	%	12/04/19	KCA	1

Client ID: IA-5

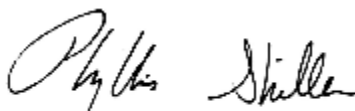
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	85	%	%	85	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 13648

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 16:59
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70612

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: IA-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/09/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/09/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/09/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/09/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/09/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/09/19	KCA	1
Acetone	5.14	1.00	1.00	12.2	2.37	2.37	12/09/19	KCA	1
Benzene	ND	0.050	0.050	ND	0.16	0.16	12/09/19	KCA	1
Carbon Tetrachloride	0.070	0.020	0.020	0.44	0.13	0.13	12/09/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/09/19	KCA	1
Dichlorodifluoromethane	0.301	0.200	0.200	1.49	0.99	0.99	12/09/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/09/19	KCA	1
m,p-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/09/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/09/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/09/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/09/19	KCA	1
Toluene	0.379	0.200	0.200	1.43	0.75	0.75	12/09/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/09/19	KCA	1
Trichlorofluoromethane	0.208	0.150	0.150	1.17	0.84	0.84	12/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/09/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	90	%	%	90	%	%	12/09/19	KCA	1
% IS-1,4-Difluorobenzene	151	%	%	151	%	%	12/09/19	KCA	1 3
% IS-Bromochloromethane	147	%	%	147	%	%	12/09/19	KCA	1 3

Client ID: IA-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
% IS-Chlorobenzene-d5	147	%	%	147	%	%	12/09/19	KCA	1	3

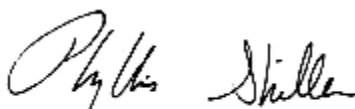
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 28617

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 16:58
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70613

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: IA-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	6.77	1.00	1.00	16.1	2.37	2.37	12/04/19	KCA	1
Benzene	0.132	0.050	0.050	0.42	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.075	0.020	0.020	0.47	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.491	0.200	0.200	2.43	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.162	0.150	0.150	0.70	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	0.352	0.200	0.200	1.33	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.232	0.150	0.150	1.30	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	96	%	%	96	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	78	%	%	78	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	77	%	%	77	%	%	12/04/19	KCA	1

Client ID: IA-7

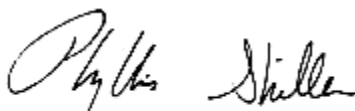
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	84	%	%	84	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 17159

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 16:07
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70614

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: AMBIENT AIR

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	ND	1.00	1.00	ND	2.37	2.37	12/04/19	KCA	1
Benzene	0.152	0.050	0.050	0.49	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.075	0.020	0.020	0.47	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.442	0.200	0.200	2.18	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	ND	0.200	0.200	ND	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.252	0.150	0.150	1.41	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	95	%	%	95	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	78	%	%	78	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	77	%	%	77	%	%	12/04/19	KCA	1

Client ID: AMBIENT AIR

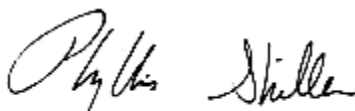
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	82	%	%	82	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 13642

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date: 12/02/19 10:25
12/03/19 16:40

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70615

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: FILED BLANK

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	ND	1.00	1.00	ND	2.37	2.37	12/04/19	KCA	1
Benzene	0.060	0.050	0.050	0.19	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	ND	0.020	0.020	ND	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	ND	0.200	0.200	ND	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.263	0.150	0.150	1.14	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	0.132	0.100	0.100	0.89	0.68	0.68	12/04/19	KCA	1
Toluene	0.271	0.200	0.200	1.02	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	ND	0.150	0.150	ND	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	97	%	%	97	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	70	%	%	70	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	71	%	%	71	%	%	12/04/19	KCA	1

Client ID: FILED BLANK

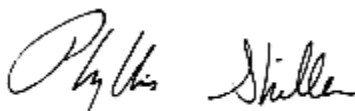
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	79	%	%	79	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#:
Canister Id: 23327

Custody Information

Collected by: LTG
Received by: LB
Analyzed by: see "By" below

Date

12/02/19 16:53
12/03/19 16:40

Time

Laboratory Data

SDG ID: GCE70607
Phoenix ID: CE70616

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.
Client ID: DUPLICATE

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	12/04/19	KCA	1
1,1-Dichloroethene	ND	0.100	0.100	ND	0.40	0.40	12/04/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	12/04/19	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	12/04/19	KCA	1
Acetone	7.19	1.00	1.00	17.1	2.37	2.37	12/04/19	KCA	1
Benzene	0.134	0.050	0.050	0.43	0.16	0.16	12/04/19	KCA	1
Carbon Tetrachloride	0.077	0.020	0.020	0.48	0.13	0.13	12/04/19	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	12/04/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	12/04/19	KCA	1
Dichlorodifluoromethane	0.508	0.200	0.200	2.51	0.99	0.99	12/04/19	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
m,p-Xylene	0.161	0.150	0.150	0.70	0.65	0.65	12/04/19	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	12/04/19	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	12/04/19	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	12/04/19	KCA	1
Toluene	0.350	0.200	0.200	1.32	0.75	0.75	12/04/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/04/19	KCA	1
Trichlorofluoromethane	0.273	0.150	0.150	1.53	0.84	0.84	12/04/19	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	12/04/19	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	12/04/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	93	%	%	93	%	%	12/04/19	KCA	1
% IS-1,4-Difluorobenzene	74	%	%	74	%	%	12/04/19	KCA	1
% IS-Bromochloromethane	71	%	%	71	%	%	12/04/19	KCA	1

Client ID: DUPLICATE

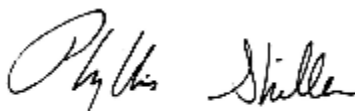
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	81	%	%	81	%	%	12/04/19	KCA	1

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 08, 2020

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Canister Sampling Information

June 08, 2020

FOR: Attn: Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Location Code: WALDENE-IPARK

SDG I.D.: GCE70607

Project ID: JANE BAKES IAQ IPARK HOPEWELL JCT.

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-1	CE70607	23318	6.0L	6985	10/28/19	-30	-5	10.8	10.4	3.8	-29	-4.5	12/02/19 9:02	12/02/19 17:03
IA-2	CE70608	13645	6.0L	6991	10/28/19	-30	-4	10.8	11.2	3.6	-29	-3.5	12/02/19 9:01	12/02/19 16:47
IA-3	CE70609	216	6.0L	5385	10/28/19	-30	-2	10.8	13.7	23.7	-30	-3.5	12/02/19 8:55	12/02/19 15:17
IA-4	CE70610	21359	6.0L	5390	10/28/19	-30	-5	10.8	10.6	1.9	-30	-6.5	12/02/19 9:04	12/02/19 17:05
IA-5	CE70611	19632	6.0L	5621	10/28/19	-30	-3	10.8	11.3	4.5	-29	-3.5	12/02/19 8:57	12/02/19 16:33
IA-6	CE70612	13648	6.0L	5380	10/28/19	-30	-6	10.8	11.3	4.5	-29.5	-6	12/02/19 8:59	12/02/19 16:59
IA-7	CE70613	28617	6.0L	6993	10/28/19	-30	-3	10.8	11.6	7.1	-29.5	-3.5	12/02/19 8:58	12/02/19 16:58
AMBIENT AIR	CE70614	17159	6.0L	5521	10/28/19	-30	-3	10.8	10.9	0.9	-28	-3.5	12/02/19 8:49	12/02/19 16:07
FILED BLANK	CE70615	13642	6.0L	3502	10/28/19	-30	-4	10.8	11	1.8	-29	-5	12/02/19 9:18	12/02/19 16:25
DUPLICATE	CE70616	23327	6.0L	4956	10/28/19	-30	-5	10.8	10.6	1.9	-30	-5	12/02/19 8:53	12/02/19 16:53



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

June 08, 2020

QA/QC Data

SDG I.D.: GCE70607

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	LCSD %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
-----------	-------------	-------------------	--------------	--------------------	----------	-----------	---------------------------	------------------------	--------------------------	-----------------------	------------	--------------------	--------------------

QA/QC Batch 508754 (ppbv), QC Sample No: CE70607 (CE70607, CE70608, CE70609, CE70610, CE70611, CE70613, CE70614, CE70615, CE70616)

Volatiles

1,1,1-Trichloroethane	ND	0.200	ND	1.09	101	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.100	ND	0.40	99	101	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.250	ND	1.85	89	76	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.150	ND	0.90	110	100	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.150	ND	0.90	107	102	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.150	ND	0.90	108	95	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	114	116	9.33	9.26	3.93	3.90	NC	70 - 130	25
Benzene	ND	0.050	ND	0.16	90	103	0.43	0.40	0.134	0.126	NC	70 - 130	25
Carbon Tetrachloride	ND	0.020	ND	0.13	103	102	0.43	0.45	0.068	0.072	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	99	96	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	106	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	102	101	2.14	2.11	0.434	0.427	NC	70 - 130	25
Ethylbenzene	ND	0.150	ND	0.65	104	101	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.150	ND	0.65	110	106	0.85	0.82	0.196	0.189	NC	70 - 130	25
Methylene Chloride	ND	0.400	ND	1.39	102	107	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.150	ND	0.65	106	104	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	97	97	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.200	ND	0.75	101	104	1.24	1.16	0.328	0.309	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	97	99	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.150	ND	0.84	104	106	1.15	ND	0.205	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.150	ND	1.15	98	98	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.020	ND	0.05	108	104	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	91	%	91	%	105	102	94	95	94	95	NC	70 - 130	25
% IS-1,4-Difluorobenzene	106	%	106	%	92	86	100	92	100	92	NC	60 - 140	25
% IS-Bromochloromethane	106	%	106	%	90	87	101	90	101	90	NC	60 - 140	25
% IS-Chlorobenzene-d5	102	%	102	%	100	98	98	93	98	93	NC	60 - 140	25

QA/QC Batch 509344 (ppbv), QC Sample No: CE81151 (CE70612)

Volatiles

1,1,1-Trichloroethane	ND	0.180	ND	0.98	100	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	99	99	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	95	94	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	112	110	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	105	106	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	116	116	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	106	104	31.8	33.9	13.4	14.3	6.5	70 - 130	25
Benzene	ND	0.310	ND	0.99	110	113	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	103	104	0.46	0.46	0.073	0.073	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	110	113	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	119	122	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	100	93	2.80	3.06	0.566	0.620	NC	70 - 130	25

QA/QC Data

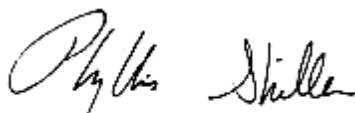
SDG I.D.: GCE70607

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	LCSD %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethylbenzene	ND	0.230	ND	1.00	113	114	1.97	1.83	0.453	0.422	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	124	127	7.12	6.68	1.64	1.54	6.3	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	98	99	7.01	6.87	2.02	1.98	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	131	134	2.57	2.43	0.592	0.560	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	111	114	12.6	10.5	1.86	1.55	18.2	70 - 130	25
Toluene	ND	0.270	ND	1.02	126	128	15.4	15.2	4.09	4.04	1.2	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	116	118	0.65	0.61	0.121	0.113	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	87	87	1.53	1.51	0.272	0.269	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	94	94	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	102	100	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	87	%	87	%	102	99	93	91	93	91	NC	70 - 130	25
% IS-1,4-Difluorobenzene	128	%	128	%	83	85	131	133	131	133	NC	60 - 140	25
% IS-Bromochloromethane	135	%	135	%	78	79	123	124	123	124	NC	60 - 140	25
% IS-Chlorobenzene-d5	115	%	115	%	88	90	127	127	127	127	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
 LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 MS - Matrix Spike
 MS Dup - Matrix Spike Duplicate
 NC - No Criteria
 Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 08, 2020

Sample Criteria Exceedances Report

GCE70607 - WALDENE-IPARK

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



CHAIN OF CUSTODY RECORD AIR ANALYSES

587 Fast Middle Turnpike, P.O. Box 370, Manchester, CT 06040

Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-1102

Report to: Nora Braw, PE

Address: 2070 State Route 52 Hopewell Jct, NY

Project Mgr: Nora Braw, PE

Phone #: 516 624 7200

Invoice to: Carl Monheit, Senior Director

Address: 1 Park East Fishkill LLC

P.O. #: Greenwich, CT 06830

Quote #: 1 Park 0118.34

Project Name: Backus IAC

Location: Hopewell Jct.

State: NY

Sampled by: John LTG

Data Delivery:

☐ Fax #

☒ Email: NBREW@

WALDEN-ASSOCIATES, COM

Pg 1 of 1

Is Canister Returned Unused? Y/N

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor	Soil Gas	Grab (G) Comp	TO-14	TO-15	Is Canister Return
LAB USE ONLY																		
70607	IA-1	23318	6.0		-5	6985	10.8	0902	1703	12/2/19	-29	-4.5	X		G	X		
70608	IA-2	13645	6.0		-4	6991	10.8	0901	1647	12/2/19	-29	-3.5	X		G	X		
70609	IA-3	216	6.0		-2	5385	10.8	0855	1517	12/2/19	-30	-3.5	X		G	X		
70610	IA-4	21359	6.0		-5	5390	10.8	0904	1705	12/2/19	-30	-6.5	X		G	X		
70611	IA-5	19632	6.0		-3	5621	10.8	0857	1033	12/2/19	-29	-3.5	X		G	X		
70612	IA-6	13648	6.0		-6	5380	10.8	0859	1659	12/2/19	-29.5	-6	X		G	X		
70613	IA-7	28617	6.0		-3	6993	10.8	0858	1658	12/2/19	-29.5	-3.5	X		G	X		
70614	AMBIENT AIR	17159	6.0		-3	5521	10.8	0849	1607	12/2/19	-28	-3.5	X		G	X		
70615	FIELD BLANK	13642	6.0		-4	3502	10.8	0918	1025	12/2/19	-29	-5	X		G	X		
70616	DUPPLICATE	23327	6.0		-6	4956	10.8	0853	1053	12/2/19	-30	-5	X		G	X		

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

TO-15 "special code list" needed. See Bobbi or Greg. Modified TO-15 analysis per project QAPP provided.

Bobbi Aloisa

From: Michael Lapman
Sent: Wednesday, December 04, 2019 5:12 PM
To: Bobbi Aloisa
Subject: Fwd: iPark Indoor Air Samples

Bobbi:

Please see the below from Nora. Thank you.

Regards,
Michael Lapman

Sent from my iPhone

Begin forwarded message:

From: "nbrew@Walden-Associates.com" <nbrew@Walden-Associates.com>
Date: December 4, 2019 at 5:10:15 PM EST
To: Michael Lapman <michael@phoenixlabs.com>
Subject: iPark Indoor Air Samples

Michael,

Are the samples that were picked up yesterday being run at 24 hr turnaround? I don't think that was specified on the chain of custody and it should have been, so please update the order if needed.

Nora

NORA M. BREW, P.E.
SENIOR PROJECT MANAGER

WALDEN ENVIRONMENTAL ENGINEERING
16 SPRING STREET, OYSTER BAY, NEW YORK 11771(HQ)
OFFICE: (516) 624-7200 (x30), FAX: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

ADDITIONAL LOCATIONS
CAPITAL DISTRICT * HUDSON VALLEY

PROVIDING ENVIRONMENTAL CONSULTING, CIVIL/ENVIRONMENTAL ENGINEERING, AND GEOGRAPHIC INFORMATION SYSTEMS SERVICES
SINCE 1995.

WALDEN CONTINUES TO GROW THROUGH REFERRALS FROM CLIENTS AND FRIENDS LIKE YOU



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Walden Environmental Engineering PLLC

JANE BAKES IAQ IPARK HOPEWELL JCT.

Laboratory Project: GCE70607

Volatile TO15
Ver 1

Organic Data Flags

LOD(MDL): Limit of Detection or Method Detection Limit
The minimum reportable concentration that can be measured with confidence.

PQL(RL): Practical Quantitation Level or Reporting Level
This value is at or above the MDL and is supported by the lowest calibration standard.

Q Qualifiers:

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

J - Indicates an estimated value, may indicate one of the following, depending on the situation:
a) The reported value is estimated and below the MDL
b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
c) QC associated with this analyte is within warning limits.

X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause.

L - Biased Low

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

B - This compound was also present in the method blank

D - The reported concentration is the result of a diluted analysis.

E - The reported value is estimated because the concentration exceeded the calibration range.

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

P - Percent difference is greater than 25% between the two GC columns and the lower result is reported.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCE70607

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: JANE BAKES IAQ IPARK HOPEWELL JCT., Walden Environmental Engineering

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CE70607 LCS

All LCS recoveries met criteria with the following exceptions: None.

Sample: CE81151 LCS

All LCS recoveries met criteria with the following exceptions: o-Xylene 131%

Form 4 (Method Blank):

File: CHEM20 1204_18.D

All compounds were non-detect with the following exceptions: None.

File: CHEM24 1208_07.D

All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 1204_02.D

All Tune criteria was met with the following exceptions: None.

File: CHEM20 1204_13.D

All Tune criteria was met with the following exceptions: None.

File: CHEM24 1207_02.D

All Tune criteria was met with the following exceptions: None.

File: CHEM24 1208_02.D

All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 12/03/19 - 12/04/19

100% of method compounds met criteria.

The following compounds did not meet maximum % deviations: None.

Calibration: CHEM20 12/03/19 - 12/04/19

100% of method compounds met criteria.

The following compounds did not meet maximum % deviations: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCE70607

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: JANE BAKES IAQ IPARK HOPEWELL JCT., Walden Environmental Engineering

Calibration: CHEM24 12/07/19 - 12/07/19
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 12/07/19 - 12/07/19
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 1204_13.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

File: CHEM24 1208_02.D (Opening)
99% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene 24.0% (20)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_1203_wal.M / 1204_13.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_1203_wal.M / 1204_13.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_1203_wal.M / Average Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_1203_wal.M / Average Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR_1207.M / 1208_02.D Full
All samples met internal standard area and retention time criteria with the following exceptions:
1208_11.D - IA-6: 1,4-Difluorobenzene; Area 1216323 (479841 - 1133071), Bromochloromethane; Area 456655 (184980 - 436802), Chlorobenzene-d5; Area 650656 (263339 - 621833)

File: CHEM24 - 24AIR_1207.M / 1208_02.D Sim
All samples met internal standard area and retention time criteria with the following exceptions:
1208_11.D - IA-6: 1,4-Difluorobenzene; Area 1331777 (538438 - 1271436), Bromochloromethane; Area 466970 (192954 - 455632), Chlorobenzene-d5; Area 705958 (285601 - 674403)

File: CHEM24 - 24AIR_1207.M / Average Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR_1207.M / Average Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCE70607

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: JANE BAKES IAQ IPARK HOPEWELL JCT., Walden Environmental Engineering

05/30/20

Alejandro Paredes
Project Manager

Lab Name:	Phoenix Environmental Labs	Client:	WALDENE-IPARK
Lab Code:	Phoenix	Case No.:	SDG: GCE70607
QC Batch Id:	508754	QC Sample Id:	CE70607

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CE70607 LCS	CE70607 LCS	105				0
02	CE70607 BLANK	CE70607 BLANK	91				0
03	IA-1	CE70607	95				0
04	IA-1 DUP	CE70607 DUP	95				0
05	IA-2	CE70608	94				0
06	CE70607 LCSD	CE70607 LCSD	102				0
07	IA-3	CE70609	96				0
08	IA-4	CE70610	95				0
09	IA-5	CE70611	96				0
10	IA-7	CE70613	96				0
11	AMBIENT AIR	CE70614	95				0
12	FILED BLANK	CE70615	97				0
13	DUPLICATE	CE70616	93				0
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 40 of 290

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK
 Lab Code: Phoenix Case No.: SDG: GCE70607
 QC Batch Id: 509344 QC Sample Id: CE81151

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CE81151 LCS	CE81151 LCS	102				0
02	CE81151 LCSD	CE81151 LCSD	99				0
03	CE81151 BLANK	CE81151 BLANK	87				0
04	IA-6	CE70612	90				0
05	CE81151 QC	CE81151 QC	93				0
06	81151 dup	CE81151 DUP	91				0
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

			QC LIMITS
SMC1	BFB	Bromofluorobenzene	(70-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 41 of 290

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCE70607

LCS - Client Id: CE70607 LCS

[illegible]

4A
AIR METHOD BLANK SUMMARY

Client ID

CE70607 BLANK

Lab Name: Phoenix Environmental Labs

Client: _____

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCE70607

Lab File ID: 1204 18.D

Lab Sample ID: CE70607 BLK

Date Analyzed: 12/04/2019

Time Analyzed: 05:38

GC Column: RTX-1 60M

Lab Batch ID: 508754

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CE70607 LCS	CE70607 LCS	1204 16.D	04:29
02	IA-1	CE70607	1204 19.D	08:58
03	IA-1 DUP	CE70607 DUP	1204 20.D	09:38
04	IA-2	CE70608	1204 21.D	10:24
05	CE70607 LCSD	CE70607 LCSD	1204 22.D	11:38
06	IA-3	CE70609	1204 24.D	12:56
07	IA-4	CE70610	1204 25.D	15:34
08	IA-5	CE70611	1204 26.D	16:14
09	IA-7	CE70613	1204 28.D	17:49
10	AMBIENT AIR	CE70614	1204 29.D	18:29
11	FILED BLANK	CE70615	1204 30.D	19:09
12	DUPLICATE	CE70616	1204 31.D	19:50
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS: _____

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CE81151 BLANK

Lab Name: Phoenix Environmental Labs

Client: _____

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCE70607

Lab File ID: 1208_07.D

Lab Sample ID: CE81151 BLK

Date Analyzed: 12/09/2019

Time Analyzed: 02:32

GC Column: RTX-VMS

Lab Batch ID: 509344

Instrument ID: CHEM24

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CE81151 LCS	CE81151 LCS	1208_04.D	00:55
02	CE81151 LCSD	CE81151 LCSD	1208_05.D	01:31
03	IA-6	CE70612	1208_11.D	10:34
04	CE81151 QC	CE81151	1208_12.D	11:23
05	81151 dup	CE81151 DUP	1208_13.D	11:59
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: _____

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607

Lab File ID: 1204_02.D BFB Injection Date: 12/03/19

Instrument ID: CHEM20 BFB Injection Time: 19:53

GC Column: RTX-1 60M Heated Purge: (Y/N) Y

AutoFind: Scans 1097, 1098, 1099; Background Corrected with Scan 1091

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.8
75	30.0 - 66.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	73.9
175	4.0 - 9.0% of mass 174	7.2 (5.3)1
176	93.0 - 101.0% of mass 174	94.3 (69.8)1
177	5.0 - 9.0% of mass 176	6.8 (4.7)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.02	0.02	1204_03.D	12/03/19	20:28	
02	ICAL 0.035	0.035	1204_04.D	12/03/19	21:04	
03	ICAL 0.05	0.05	1204_05.D	12/03/19	21:40	
04	ICAL 0.1	0.10	1204_06.D	12/03/19	22:16	
05	ICAL 0.5	0.5	1204_07.D	12/03/19	22:54	
06	ICAL 2.5	2.5	1204_08.D	12/03/19	23:33	
07	ICAL 5	5.0	1204_09.D	12/04/19	00:09	
08	ICAL 25	25	1204_10.D	12/04/19	00:47	
09	ICAL 40	40	1204_11.D	12/04/19	01:26	
10	ICAL 1	1ppb	1204_13.D	12/04/19	02:38	
11	ICAL 0.2	0.2	1204_14.D	12/04/19	03:14	
12	ICAL 10	10ppb	1204_15.D	12/04/19	03:51	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_02.D
 Acq On : 03 Dec 2019 07:53 pm
 Operator : CORTEX\ms
 Sample : 0/0
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:20:50 2019

AutoFind: Scans 1097, 1098, 1099; Background Corrected with Scan 1091

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.8	233792	PASS
75	95	30	66	55.4	522911	PASS
95	95	100	100	100.0	944064	PASS
96	95	5	9	6.6	62185	PASS
173	174	0.00	2	0.7	4618	PASS
174	95	50	120	73.9	698069	PASS
175	174	4	9	7.2	50131	PASS
176	174	93	101	94.3	658624	PASS
177	176	5	9	6.8	44611	PASS

20_AIR_1203_wal.M Wed Dec 04 10:21:18 2019

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: _____

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607

Lab File ID: 1204_13.D BFB Injection Date: 12/04/19

Instrument ID: CHEM20 BFB Injection Time: 02:38

GC Column: RTX-1 60M Heated Purge: (Y/N) Y

AutoFind: Scans 1097, 1098, 1099; Background Corrected with Scan 1089

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.3
75	30.0 - 66.0% of mass 95	57.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	68.5
175	4.0 - 9.0% of mass 174	7.2 (4.9)1
176	93.0 - 101.0% of mass 174	97.2 (66.6)1
177	5.0 - 9.0% of mass 176	6.5 (4.3)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CE70607 LCS	CE70607 LCS	1204_16.D	12/04/19	04:29	
02	CE70607 BLANK	CE70607 BLANK	1204_18.D	12/04/19	05:38	
03	IA-1	CE70607	1204_19.D	12/04/19	08:58	
04	IA-1 DUP	CE70607 DUP	1204_20.D	12/04/19	09:38	
05	IA-2	CE70608	1204_21.D	12/04/19	10:24	
06	CE70607 LCSD	CE70607 LCSD	1204_22.D	12/04/19	11:38	
07	IA-3	CE70609	1204_24.D	12/04/19	12:56	
08	IA-4	CE70610	1204_25.D	12/04/19	15:34	
09	IA-5	CE70611	1204_26.D	12/04/19	16:14	
10	IA-7	CE70613	1204_28.D	12/04/19	17:49	
11	AMBIENT AIR	CE70614	1204_29.D	12/04/19	18:29	
12	FILED BLANK	CE70615	1204_30.D	12/04/19	19:09	
13	DUPLICATE	CE70616	1204_31.D	12/04/19	19:50	
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_13.D
 Acq On : 04 Dec 2019 02:38 am
 Operator : CORTEX\ms
 Sample : 1ppb
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:20:50 2019

AutoFind: Scans 1097, 1098, 1099; Background Corrected with Scan 1089

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.3	229571	PASS
75	95	30	66	57.7	504550	PASS
95	95	100	100	100.0	874027	PASS
96	95	5	9	6.5	57080	PASS
173	174	0.00	2	0.7	4190	PASS
174	95	50	120	68.5	598571	PASS
175	174	4	9	7.2	43083	PASS
176	174	93	101	97.2	582101	PASS
177	176	5	9	6.5	37800	PASS

20_AIR_1203_wal.M Wed Dec 04 10:23:53 2019

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: _____

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607

Lab File ID: 1207_02.D BFB Injection Date: 12/07/19

Instrument ID: CHEM24 BFB Injection Time: 16:06

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.2
75	30.0 - 66.0% of mass 95	55.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 120.0% of mass 95	95.6
175	4.0 - 9.0% of mass 174	7.0 (6.7)1
176	93.0 - 101.0% of mass 174	97.1 (92.8)1
177	5.0 - 9.0% of mass 176	6.6 (6.1)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.02	0.02 ppbV	1207_03.D	12/07/19	16:38	
02	ICAL 0.035	0.035 ppbV	1207_04.D	12/07/19	17:10	
03	ICAL 0.05	0.05 ppbV	1207_05.D	12/07/19	17:42	
04	ICAL 0.1	0.10 ppbV	1207_06.D	12/07/19	18:14	
05	ICAL 0.5	0.5ppbV	1207_07.D	12/07/19	18:52	
06	ICAL 2.5	2.5 ppbV	1207_08.D	12/07/19	19:29	
07	ICAL 5	5.0 ppbV	1207_09.D	12/07/19	20:02	
08	ICAL 25	25 ppbV	1207_10.D	12/07/19	20:38	
09	ICAL 40	40	1207_11.D	12/07/19	21:18	
10	ICAL 1	1ppb	1207_13.D	12/07/19	22:22	
11	ICAL 0.2	0.2ppb	1207_14.D	12/07/19	22:56	
12	ICAL 10	10ppb	1207_15.D	12/07/19	23:28	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_02.D
 Acq On : 7 Dec 2019 4:06 pm
 Operator : Keith
 Sample : 0/0
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:45:44 2019

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.2	94237	PASS
75	95	30	66	55.1	233877	PASS
95	95	100	100	100.0	424533	PASS
96	95	5	9	6.7	28456	PASS
173	174	0.00	2	0.5	2082	PASS
174	95	50	120	95.6	405760	PASS
175	174	4	9	7.0	28445	PASS
176	174	93	101	97.1	393813	PASS
177	176	5	9	6.6	25901	PASS

24AIR_1207.M Mon Dec 09 09:46:55 2019

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: _____

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607

Lab File ID: 1208_02.D BFB Injection Date: 12/08/19

Instrument ID: CHEM24 BFB Injection Time: 23:01

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.9
75	30.0 - 66.0% of mass 95	53.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.5)1
174	50.0 - 120.0% of mass 95	96.0
175	4.0 - 9.0% of mass 174	7.0 (6.7)1
176	93.0 - 101.0% of mass 174	97.9 (94.0)1
177	5.0 - 9.0% of mass 176	6.8 (6.4)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1ppb cc ; 31w	1208_02.D	12/08/19	23:01	
02	CE81151 LCS	CE81151 LCS	1208_04.D	12/09/19	00:55	
03	CE81151 LCSD	CE81151 LCSD	1208_05.D	12/09/19	01:31	
04	CE81151 BLANK	CE81151 BLANK	1208_07.D	12/09/19	02:32	
05	IA-6	CE70612	1208_11.D	12/09/19	10:34	
06	CE81151 QC	CE81151 QC	1208_12.D	12/09/19	11:23	
07	81151 dup	CE81151 DUP	1208_13.D	12/09/19	11:59	
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_02.D
 Acq On : 8 Dec 2019 11:01 pm
 Operator : Keith
 Sample : 1ppb cc ; 31w
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:45:44 2019

AutoFind: Scans 1675, 1676, 1677; Background Corrected with Scan 1667

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.9	82115	PASS
75	95	30	66	53.8	201216	PASS
95	95	100	100	100.0	374208	PASS
96	95	5	9	6.8	25395	PASS
173	174	0.00	2	0.5	1802	PASS
174	95	50	120	96.0	359296	PASS
175	174	4	9	7.0	25088	PASS
176	174	93	101	97.9	351595	PASS
177	176	5	9	6.8	23923	PASS

24AIR_1207.M Mon Dec 09 09:50:00 2019

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: _____
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607
 Lab Method / File Id: 20_AIR_1203_wal.M / 1204_13.D Date Analyzed: 12/04/19
 Instrument ID: CHEM20 Time Analyzed: 2:38
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	540886	6.88	2089883	8.07	1118479	10.60			1204_13.D
UPPER LIMIT	759945	7.21	2936286	8.40	1571463	10.93			1204_13.D
LOWER LIMIT	321827	6.55	1243480	7.74	665495	10.27			1204_13.D
CLIENT ID									
01 ICAL 1	540886	6.88	2089883	8.07	1118479	10.60			1204_13.D
02 CE70607 LCS	486553	6.88	1926552	8.08	1120631	10.60			1204_16.D
03 CE70607 BLANK	573595	6.88	2223890	8.07	1143982	10.60			1204_18.D
04 IA-1	543820	6.88	2090660	8.08	1093959	10.61			1204_19.D
05 IA-1 DUP	487772	6.88	1922900	8.07	1036748	10.60			1204_20.D
06 IA-2	456389	6.88	1783655	8.07	996963	10.60			1204_21.D
07 IA-3	432643	6.88	1717686	8.07	954559	10.60			1204_24.D
08 IA-4	434345	6.89	1717821	8.08	945610	10.61			1204_25.D
09 IA-5	427378	6.88	1668886	8.07	955236	10.60			1204_26.D
10 IA-7	417013	6.88	1639295	8.07	939432	10.60			1204_28.D
11 AMBIENT AIR	417438	6.88	1625288	8.08	921625	10.60			1204_29.D
12 FILED BLANK	382865	6.88	1468826	8.07	887856	10.60			1204_30.D
13 DUPLICATE	386069	6.88	1537827	8.07	904992	10.60			1204_31.D
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: _____
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607
 Lab Method / File Id: 20_AIR_1203_wal.M / 1204_13.D Date Analyzed: 12/04/19
 Instrument ID: CHEM20 Time Analyzed: 2:38
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	720672	6.88	2462432	8.07	1148197	10.60			1204_13.D
UPPER LIMIT	1012544	7.21	3459717	8.40	1613217	10.93			1204_13.D
LOWER LIMIT	428800	6.55	1465147	7.74	683177	10.27			1204_13.D
CLIENT ID									
01 ICAL 1	720672	6.88	2462432	8.07	1148197	10.60			1204_13.D
02 CE70607 LCS	651376	6.88	2255489	8.07	1175393	10.60			1204_16.D
03 CE70607 BLANK	742297	6.88	2609833	8.07	1162483	10.60			1204_18.D
04 IA-1	712155	6.88	2488422	8.07	1149403	10.60			1204_19.D
05 IA-1 DUP	640738	6.88	2241675	8.07	1085364	10.60			1204_20.D
06 IA-2	609418	6.88	2107028	8.07	1035305	10.60			1204_21.D
07 IA-3	580645	6.88	2016669	8.07	1001349	10.60			1204_24.D
08 IA-4	577864	6.88	2013021	8.08	1012631	10.60			1204_25.D
09 IA-5	568516	6.88	1981608	8.07	1018115	10.60			1204_26.D
10 IA-7	550921	6.88	1932905	8.07	1002100	10.60			1204_28.D
11 AMBIENT AIR	548146	6.88	1921816	8.07	990302	10.60			1204_29.D
12 FILED BLANK	508622	6.88	1775421	8.07	931446	10.60			1204_30.D
13 DUPLICATE	520633	6.88	1827724	8.07	954186	10.60			1204_31.D
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: _____
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607
 Lab Method / File Id: 20_AIR_1203_wal.M / Average Date Analyzed: 12/04/19
 Instrument ID: CHEM20 Time Analyzed: 2:38
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	531724	6.88	2061711	8.07	1180774	10.60			Average
UPPER LIMIT	747073	7.21	2896704	8.40	1658987	10.93			Average
LOWER LIMIT	316376	6.55	1226718	7.74	702560	10.27			Average
CLIENT ID									
01 ICAL 0.5	557370	6.88	2084353	8.07	1115293	10.60			1204_07.D
02 ICAL 2.5	528252	6.88	1980348	8.07	1098529	10.60			1204_08.D
03 ICAL 5	520550	6.88	2071958	8.07	1160085	10.60			1204_09.D
04 ICAL 25	543868	6.89	2128255	8.08	1295013	10.61			1204_10.D
05 ICAL 40	571060	6.89	2246141	8.08	1444584	10.61			1204_11.D
06 ICAL 1	540886	6.88	2089883	8.07	1118479	10.60			1204_13.D
07 ICAL 0.2	495730	6.88	1930071	8.07	1057961	10.60			1204_14.D
08 ICAL 10	496079	6.88	1962678	8.08	1156244	10.60			1204_15.D
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: _____
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607
 Lab Method / File Id: 20_AIR_1203_wal.M / Average Date Analyzed: 12/04/19
 Instrument ID: CHEM20 Time Analyzed: 2:38
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	740757	6.88	2504199	8.07	1180099	10.60			Average
UPPER LIMIT	1040763	7.21	3518400	8.40	1658039	10.93			Average
LOWER LIMIT	440750	6.55	1489999	7.74	702159	10.27			Average
CLIENT ID									
01 ICAL 0.02	851705	6.88	2875253	8.07	1287687	10.60			1204_03.D
02 ICAL 0.035	825171	6.88	2763422	8.07	1250941	10.60			1204_04.D
03 ICAL 0.05	796147	6.88	2660685	8.07	1210436	10.60			1204_05.D
04 ICAL 0.1	741831	6.88	2471644	8.07	1137848	10.60			1204_06.D
05 ICAL 0.5	734649	6.88	2454023	8.07	1156422	10.60			1204_07.D
06 ICAL 2.5	701296	6.88	2359855	8.07	1143156	10.60			1204_08.D
07 ICAL 5	708232	6.88	2411728	8.07	1197834	10.60			1204_09.D
08 ICAL 1	720672	6.88	2462432	8.07	1148197	10.60			1204_13.D
09 ICAL 0.2	660048	6.88	2275231	8.07	1071905	10.60			1204_14.D
10 ICAL 10	667814	6.88	2307719	8.07	1196565	10.60			1204_15.D
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: _____

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607

Lab Method / File Id: 24AIR_1207.M / Average Date Analyzed: 12/07/19

Instrument ID: CHEM24 Time Analyzed: 22:22

GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	300903	5.48	793974	7.40	456800	10.97			Average
UPPER LIMIT	422769	5.81	1115534	7.73	641803	11.30			Average
LOWER LIMIT	179037	5.15	472415	7.07	271796	10.64			Average
CLIENT ID									
01 ICAL 0.5	331885	5.47	846830	7.40	474541	10.97			1207_07.D
02 ICAL 2.5	289810	5.47	748672	7.40	434858	10.97			1207_08.D
03 ICAL 5	267496	5.47	715128	7.40	416889	10.97			1207_09.D
04 ICAL 25	231027	5.48	640431	7.40	410799	10.97			1207_10.D
05 ICAL 40	254707	5.49	724277	7.40	443605	10.97			1207_11.D
06 ICAL 1	393482	5.47	1030453	7.40	546106	10.96			1207_13.D
07 ICAL 0.2	392207	5.47	989991	7.39	528393	10.97			1207_14.D
08 ICAL 10	246610	5.49	656013	7.40	399206	10.97			1207_15.D
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: _____
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607
 Lab Method / File Id: 24AIR_1207.M / Average Date Analyzed: 12/07/19
 Instrument ID: CHEM24 Time Analyzed: 22:22
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	364166	5.47	984319	7.40	525463	10.97			Average
UPPER LIMIT	511653	5.80	1382968	7.73	738275	11.30			Average
LOWER LIMIT	216679	5.14	585670	7.07	312650	10.64			Average
CLIENT ID									
01 ICAL 0.02	420237	5.48	1093388	7.40	567751	10.97			1207_03.D
02 ICAL 0.035	423274	5.47	1097836	7.40	565008	10.97			1207_04.D
03 ICAL 0.05	414378	5.47	1082467	7.40	561964	10.97			1207_05.D
04 ICAL 0.1	381526	5.47	1016170	7.40	523213	10.97			1207_06.D
05 ICAL 0.5	348492	5.47	944798	7.39	517501	10.97			1207_07.D
06 ICAL 2.5	301902	5.47	840431	7.40	474257	10.97			1207_08.D
07 ICAL 5	281886	5.48	795985	7.40	449514	10.97			1207_09.D
08 ICAL 1	407685	5.47	1136624	7.40	590777	10.97			1207_13.D
09 ICAL 0.2	405593	5.47	1101675	7.40	576739	10.96			1207_14.D
10 ICAL 10	256686	5.49	733812	7.40	427901	10.97			1207_15.D
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: _____
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607
 Lab Method / File Id: 24AIR_1207.M / 1208_02.D Date Analyzed: 12/08/19
 Instrument ID: CHEM24 Time Analyzed: 23:01
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	310891	5.47	806456	7.40	442586	10.97			1208_02.D
UPPER LIMIT	436802	5.80	1133071	7.73	621833	11.30			1208_02.D
LOWER LIMIT	184980	5.14	479841	7.07	263339	10.64			1208_02.D
CLIENT ID									
01 CCAL 1	310891	5.47	806456	7.40	442586	10.97			1208_02.D
02 CE81151 LCS	242609	5.48	667018	7.41	389405	10.97			1208_04.D
03 CE81151 BLANK	418981	5.48	1033780	7.40	508460	10.97			1208_07.D
04 IA-6	456655 *	5.50	1216323 *	7.42	650656 *	10.98			1208_11.D
05 CE81151 QC	382562	5.50	1060015	7.42	563819	10.98			1208_12.D
06 81151 dup	385079	5.50	1075810	7.42	561243	10.98			1208_13.D
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: _____
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607
 Lab Method / File Id: 24AIR_1207.M / 1208_02.D Date Analyzed: 12/08/19
 Instrument ID: CHEM24 Time Analyzed: 23:01
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	324293	5.48	904937	7.40	480002	10.97			1208_02.D
UPPER LIMIT	455632	5.81	1271436	7.73	674403	11.30			1208_02.D
LOWER LIMIT	192954	5.15	538438	7.07	285601	10.64			1208_02.D
CLIENT ID									
01 CCAL 1	324293	5.48	904937	7.40	480002	10.97			1208_02.D
02 CE81151 LCS	252308	5.49	745016	7.40	417900	10.98			1208_04.D
03 CE81151 BLANK	433132	5.48	1134246	7.40	556729	10.97			1208_07.D
04 IA-6	466970 *	5.50	1331777 *	7.42	705958 *	10.98			1208_11.D
05 CE81151 QC	395840	5.50	1167366	7.42	615192	10.99			1208_12.D
06 81151 dup	396311	5.50	1182210	7.42	609393	10.98			1208_13.D
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_19.D
 Acq On : 04 Dec 2019 08:58 am
 Operator : CORTEX\ms
 Client ID : IA-1
 Lab ID : CE70607
 ALS Vial : 1 Sample Multiplier: 1

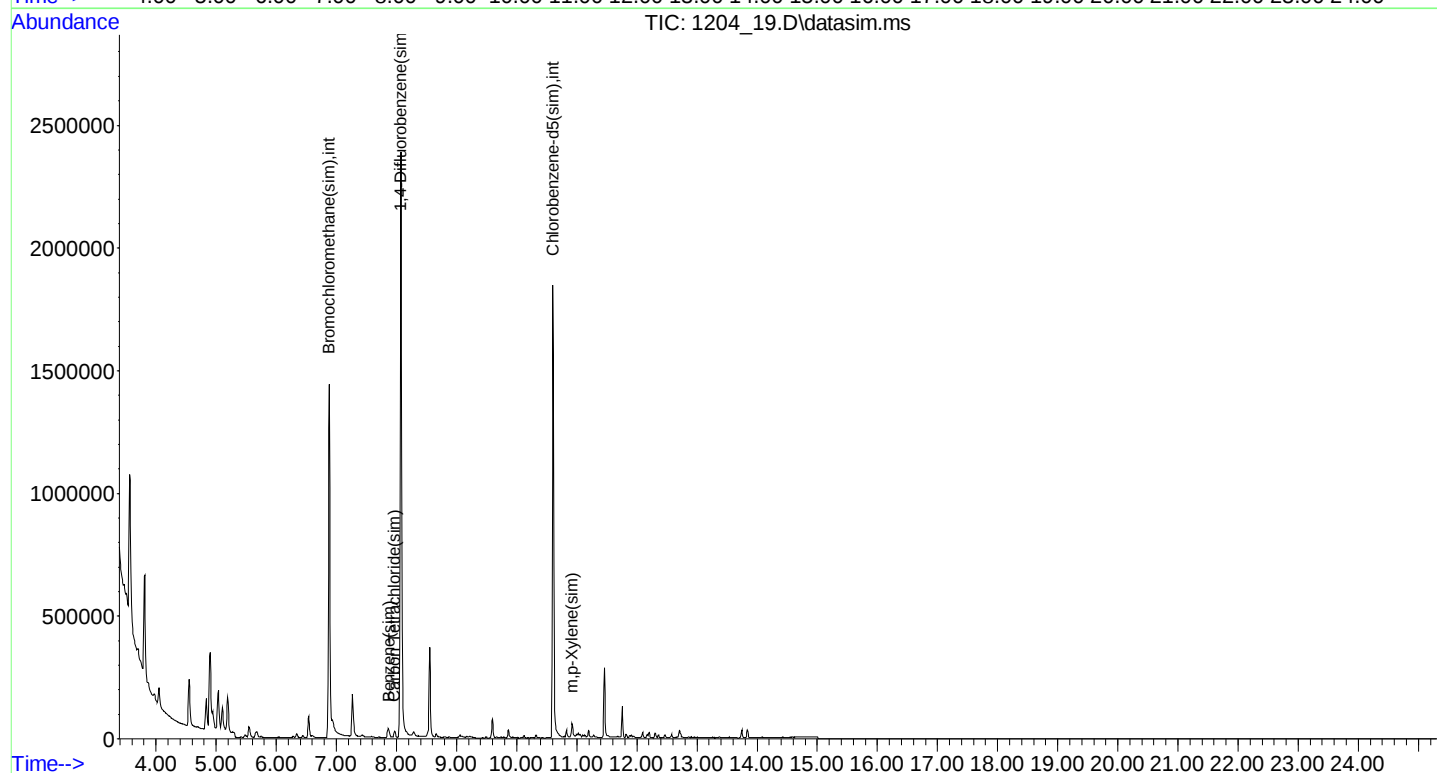
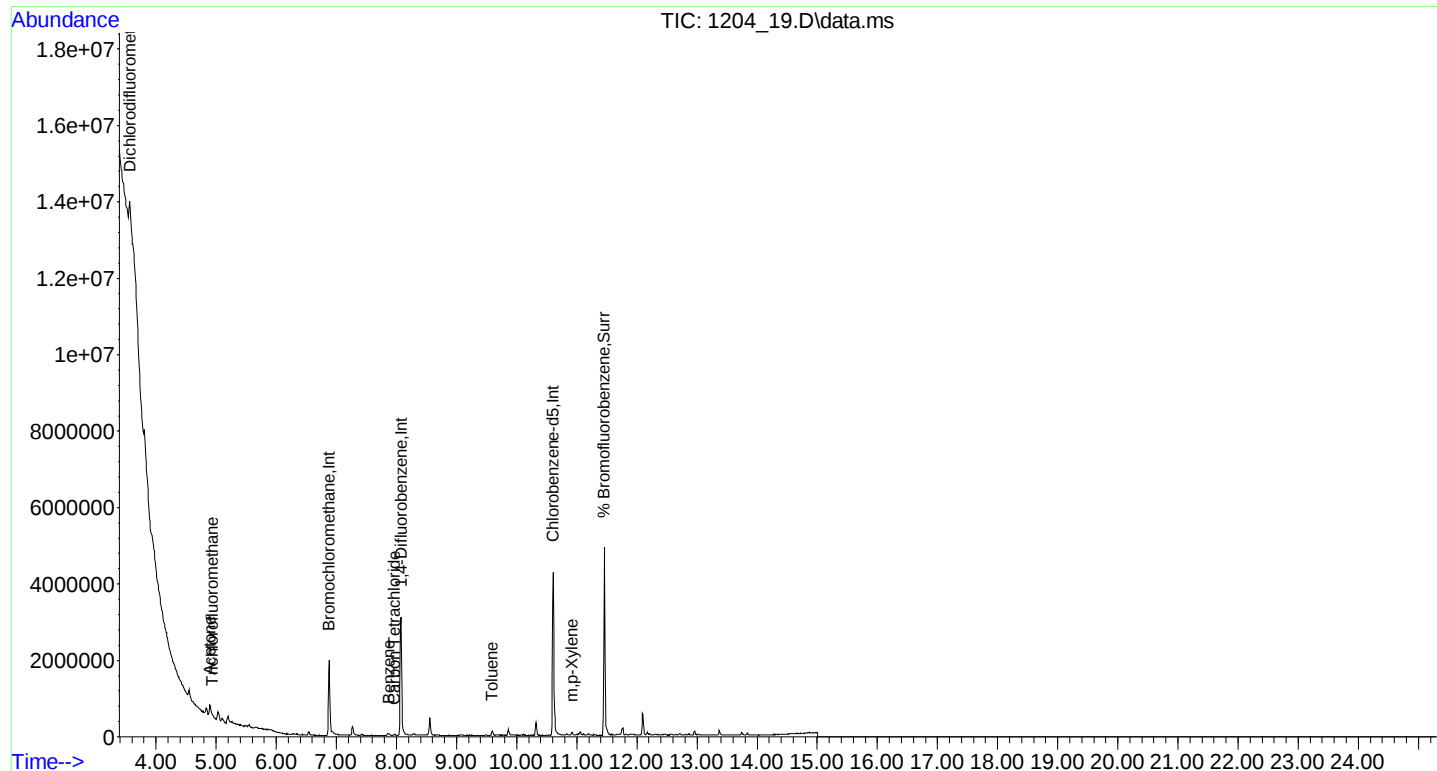
Quant Time: Dec 04 11:26:30 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:20:50 2019
 Response via : Initial Calibration

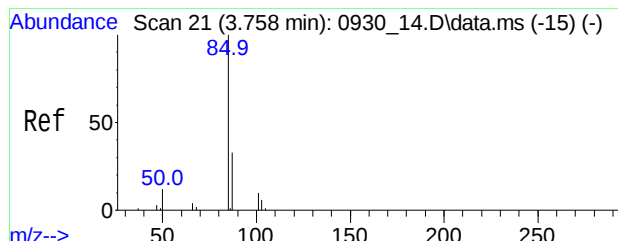
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	543820	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	2090660	10.000	ng	0.00
20) Chlorobenzene-d5	10.608	82	1093959	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	712155	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2488422	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1149403	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1415839	9.445	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.40%
Target Compounds						
2) Dichlorodifluoromethane	3.566	85	126038	0.434	ppbv	Qvalue 95
4) Acetone	4.897	43	456259	3.926	ppbv#	87
5) Trichlorofluoromethane	4.945	101	53733	0.205	ppbv	98
13) Benzene	7.881	78	21915	0.137	ppbv#	92
14) Carbon Tetrachloride	7.966	117	15821	0.073	ppbv	89
18) Toluene	9.594	91	64735	0.328	ppbv	97
23) m,p-Xylene	10.919	91	41931	0.218	ppbv	97
35) Benzene(sim)	7.881	78	21915	0.134	ug/l#	92
36) Carbon Tetrachloride(sim)	7.969	117	18527	0.068	ppbv	96
49) m,p-Xylene(sim)	10.919	91	43661	0.196	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_19.D
Acq On : 04 Dec 2019 08:58 am
Operator : CORTEX\ms
Client ID : IA-1
Lab ID : CE70607
ALS Vial : 1 Sample Multiplier: 1

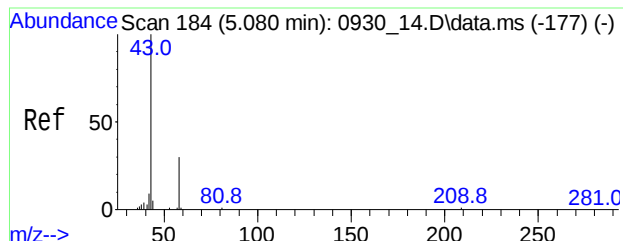
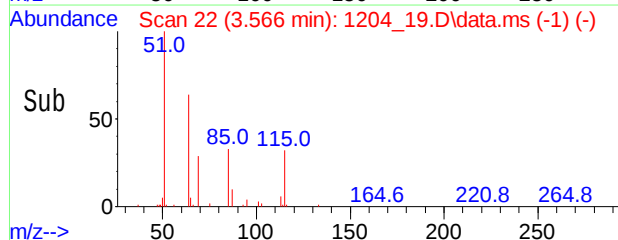
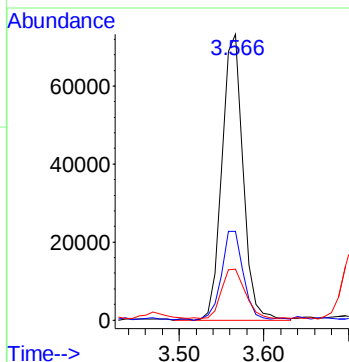
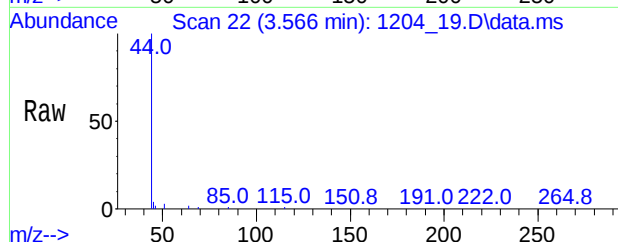
Quant Time: Dec 04 11:26:30 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:20:50 2019
Response via : Initial Calibration





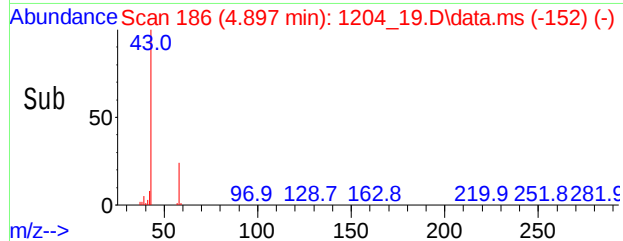
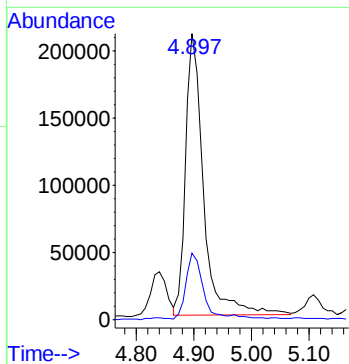
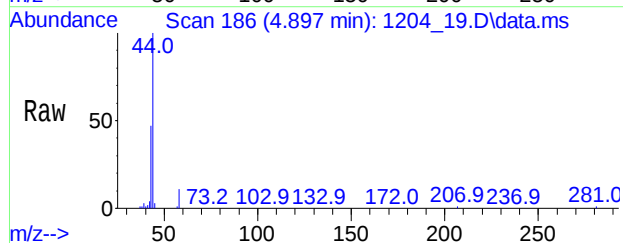
#2
Dichlorodifluoromethane
Conc: 8\$ 0.434 ppbv
RT: 3.566 min Scan# 22
Delta R.T. -0.008 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

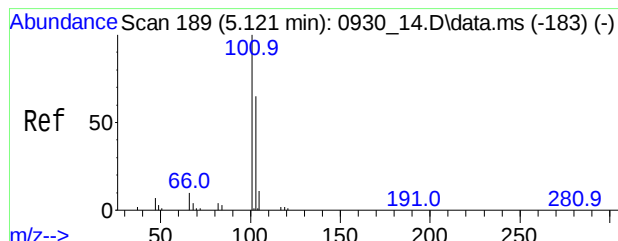
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	126038		
87	32.3	28.4	42.6	
50	19.5	14.7	22.1	



#4
Acetone
Conc: 8\$ 3.926 ppbv
RT: 4.897 min Scan# 186
Delta R.T. -0.024 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

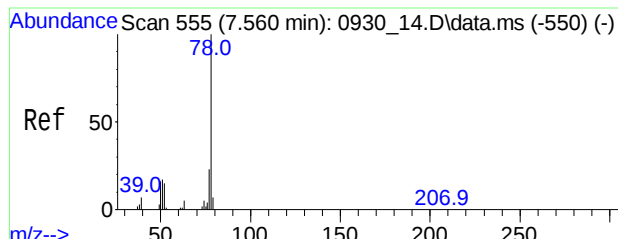
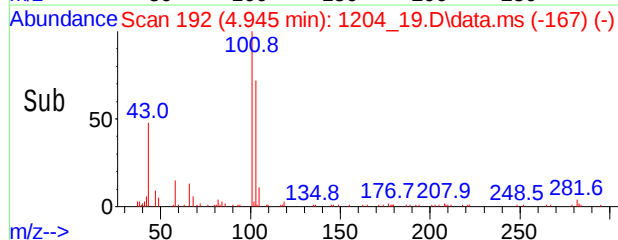
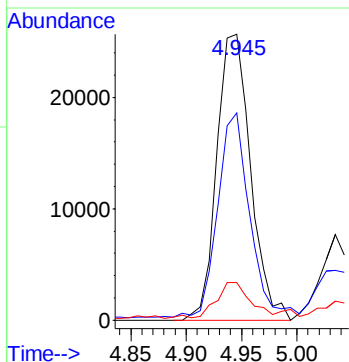
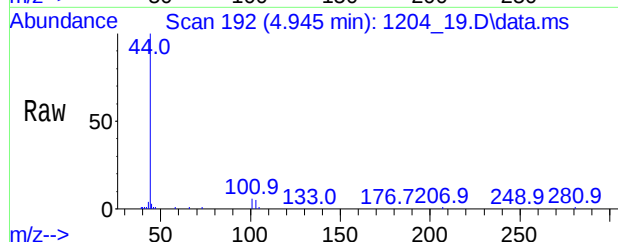
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	456259		
58	22.7	23.5	35.3#	





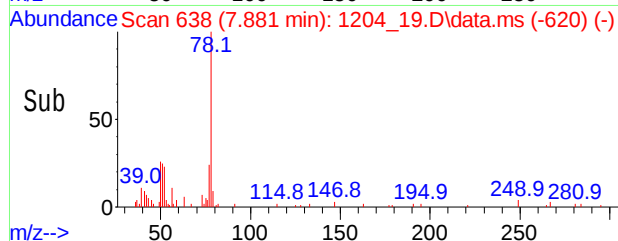
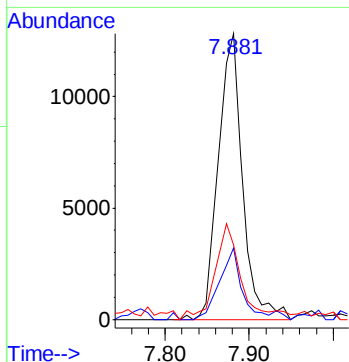
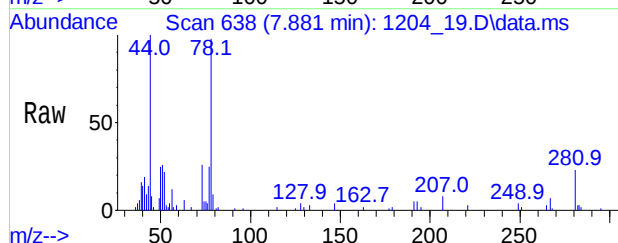
#5
 Trichlorofluoromethane
 Conc: 8\$ 0.205 ppbv
 RT: 4.945 min Scan# 192
 Delta R.T. 0.000 min
 Lab File: 1204_19.D
 Acq: 04 Dec 2019 08:58 am

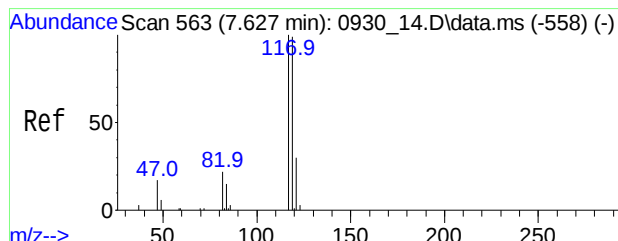
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	53733		
103	68.2	54.0	81.0	
66	14.7	14.1	21.1	



#13
 Benzene
 Conc: 8\$ 0.137 ppbv
 RT: 7.881 min Scan# 638
 Delta R.T. 0.009 min
 Lab File: 1204_19.D
 Acq: 04 Dec 2019 08:58 am

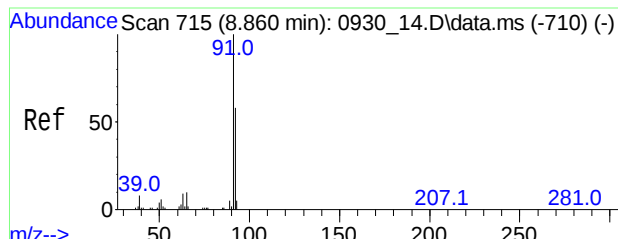
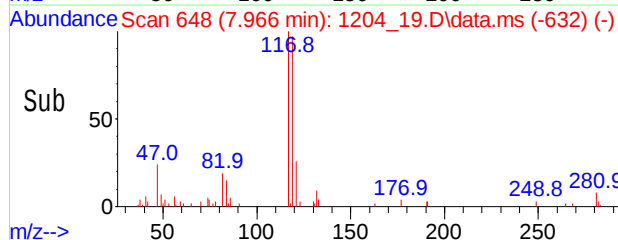
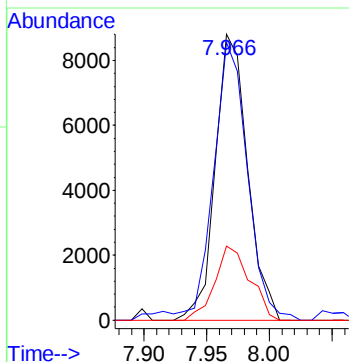
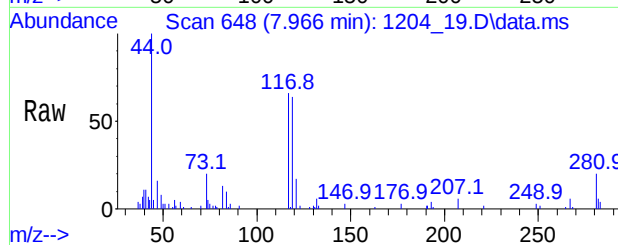
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	21915		
77	25.6	22.3	33.5	
51	36.3	24.0	36.0	





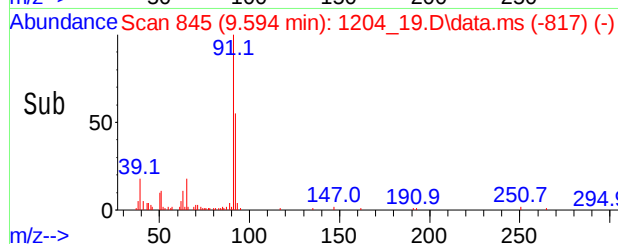
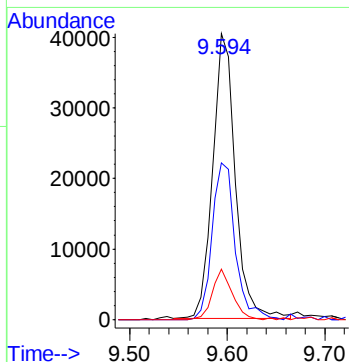
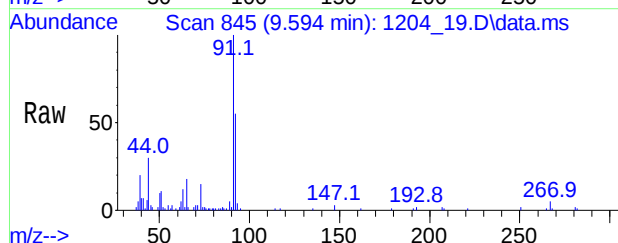
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.966 min Scan# 648
Delta R.T. 0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

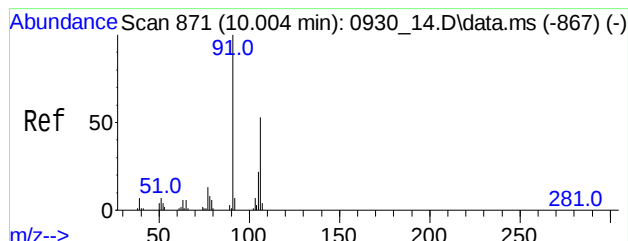
Tgt Ion: 117 Resp: 15821
Ion Ratio Lower Upper
117 100
119 103.9 71.2 111.2
121 28.0 10.8 50.8



#18
Toluene
Conc: 8\$ 0.328 ppbv
RT: 9.594 min Scan# 845
Delta R.T. 0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

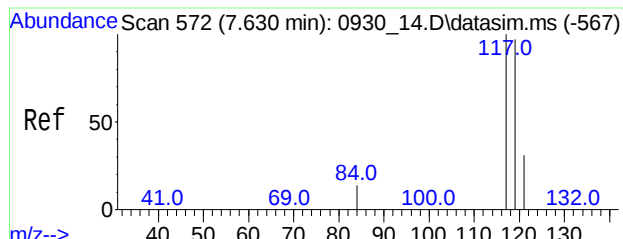
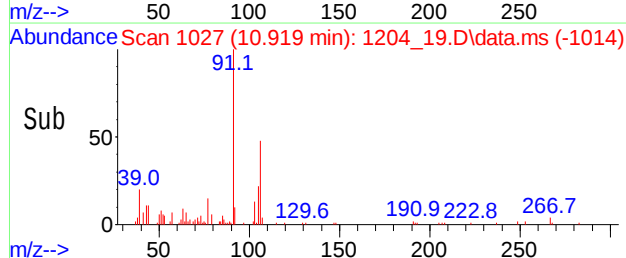
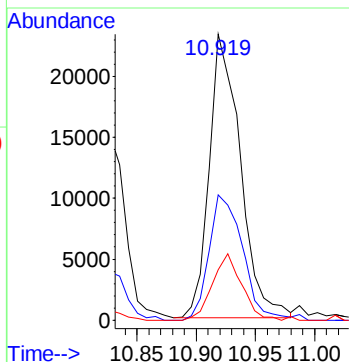
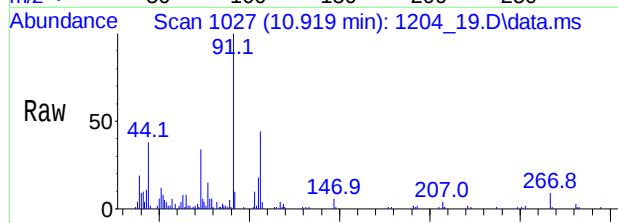
Tgt Ion: 91 Resp: 64735
Ion Ratio Lower Upper
91 100
92 56.3 46.6 69.8
65 15.6 10.6 16.0





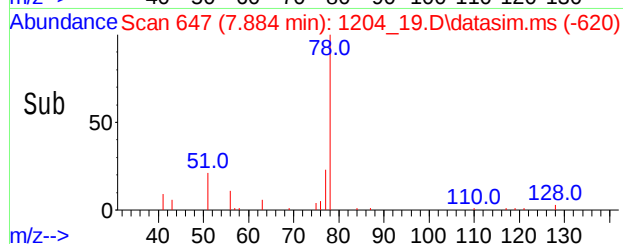
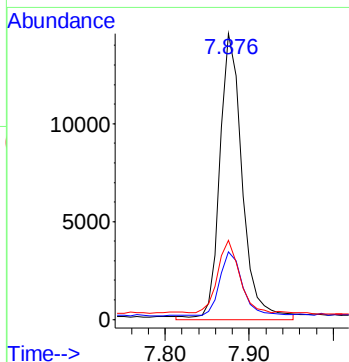
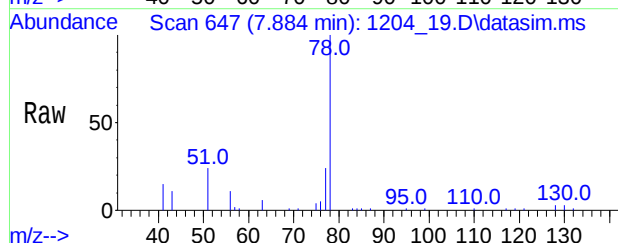
#23
m,p-Xylene
Conc: 8\$ 0.218 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. 0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

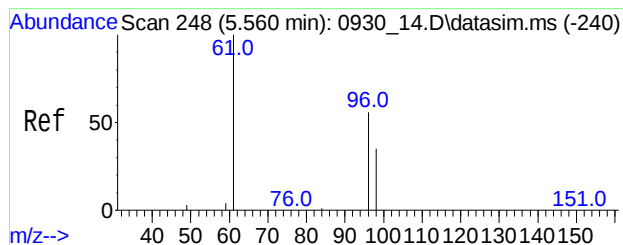
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	41931		
106	47.6	39.8	59.6	
105	21.9	18.0	27.0	



#35
Benzene(sim)
Conc: 8\$ 0.134 ug/l
RT: 7.881 min Scan# 647
Delta R.T. 0.008 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

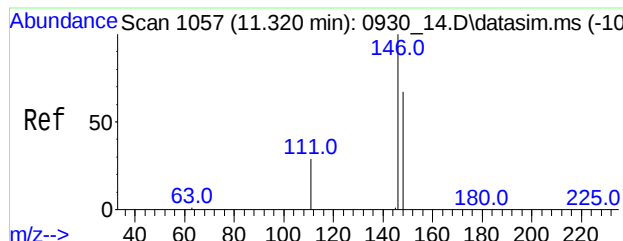
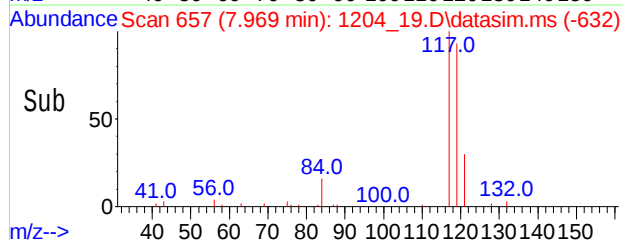
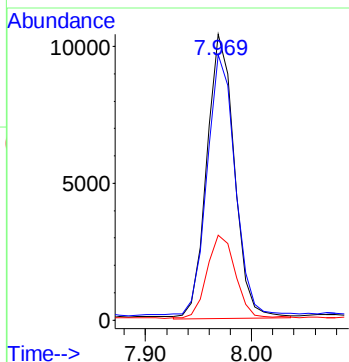
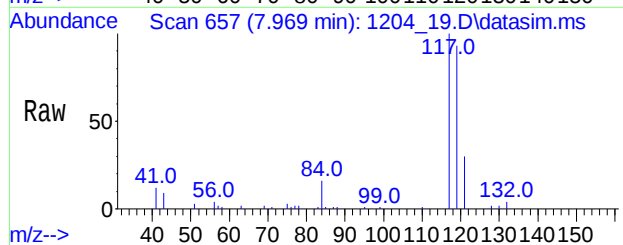
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	21915		
77	25.6	22.3	33.5	
51	36.3	24.0	36.0#	





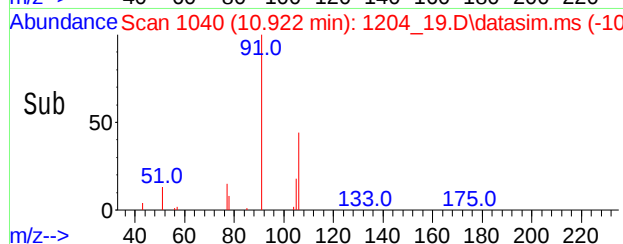
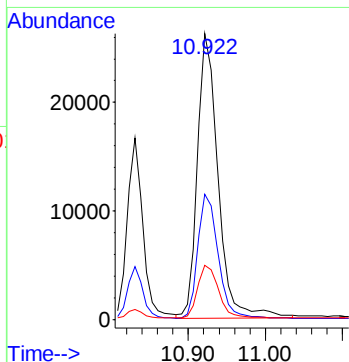
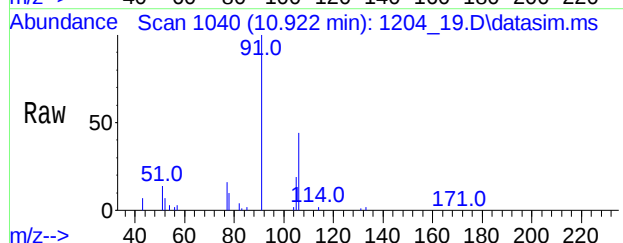
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.068 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	18527		
119	94.4	79.4	119.0	
121	31.0	25.4	38.2	



#49
m,p-Xylene(sim)
Conc: 8\$ 0.196 ppbv
RT: 10.919 min Scan# 1040
Delta R.T. 0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	43661		
106	46.2	43.9	53.7	
105	21.0	17.4	26.2	



Client:	<u>WALDENE-IPARK</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCE70607</u>	Lab Sample ID:	<u>CE70608</u>
Canister:	<u>13645</u>	Lab File ID:	<u>1204_21.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>12/03/19</u>
		Date Analyzed:	<u>12/04/19</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_21.D
 Acq On : 04 Dec 2019 10:24 am
 Operator : CORTEX\ms
 Client ID : IA-2
 Lab ID : CE70608
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 14:47:01 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

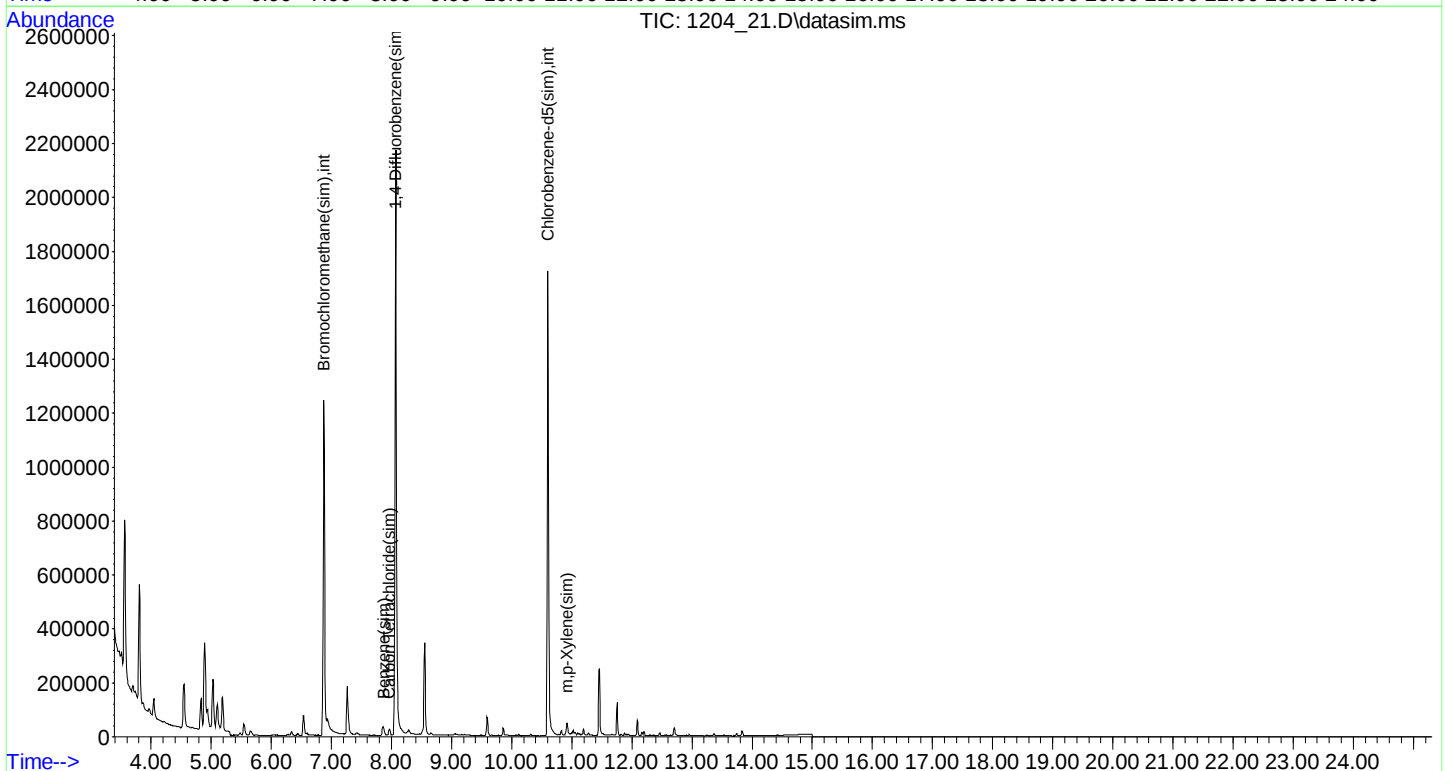
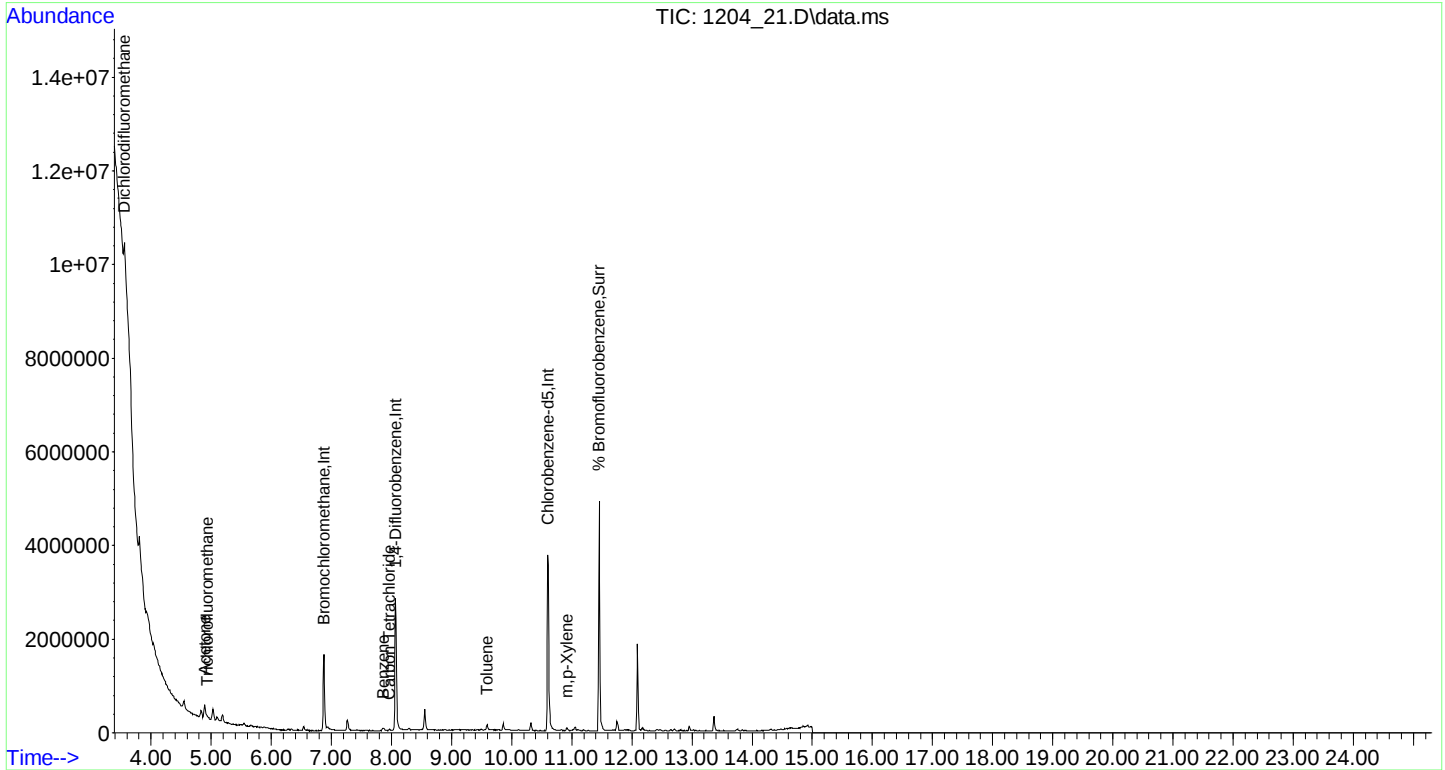
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	456389	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1783655	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	996963	10.000	ng	0.00
30) Bromochloromethane(sim)	6.875	130	609418	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	2107028	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1035305	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1290114	9.444	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.40%
Target Compounds						
2) Dichlorodifluoromethane	3.558	85	110256	0.452	ppbv#	93
4) Acetone	4.897	43	447582	4.590	ppbv	97
5) Trichlorofluoromethane	4.937	101	51705	0.235	ppbv#	94
13) Benzene	7.873	78	15812	0.117	ppbv#	79
14) Carbon Tetrachloride	7.966	117	13031	0.072	ppbv#	79
18) Toluene	9.594	91	58875	0.350	ppbv	97
23) m,p-Xylene	10.919	91	31119	0.178	ppbv	95
35] Benzene(sim)	7.873	78	15812	0.113	ug/l#	79
36] Carbon Tetrachloride(sim)	7.969	117	16996	0.073	ppbv	99
49] m,p-Xylene(sim)	10.919	91	32607	0.163	ppbv	98

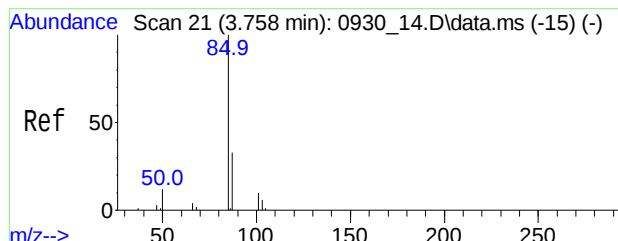
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_21.D
 Acq On : 04 Dec 2019 10:24 am
 Operator : CORTEX\ms
 Client ID : IA-2
 Lab ID : CE70608
 ALS Vial : 1 Sample Multiplier: 1

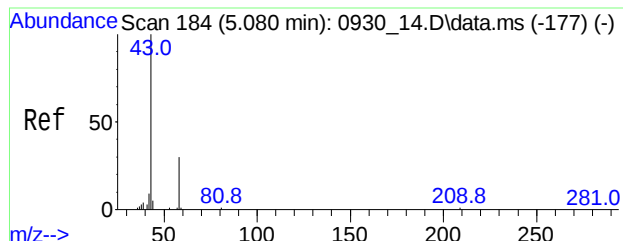
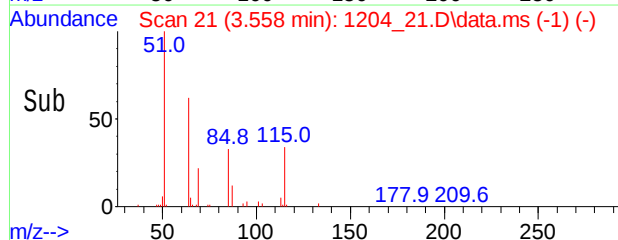
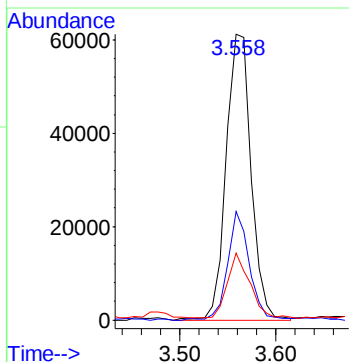
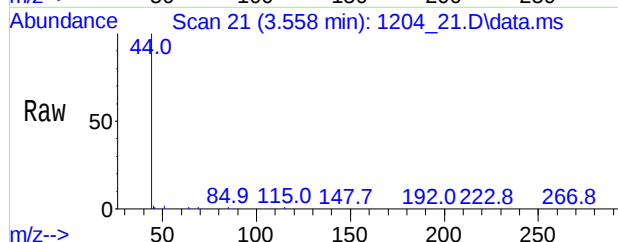
Quant Time: Dec 04 14:47:01 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration





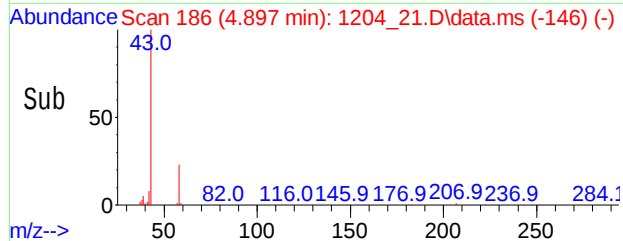
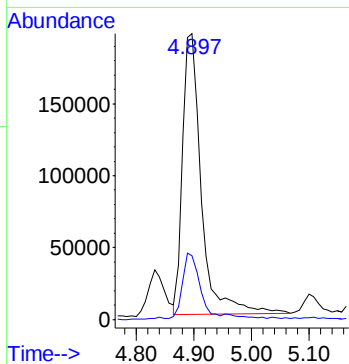
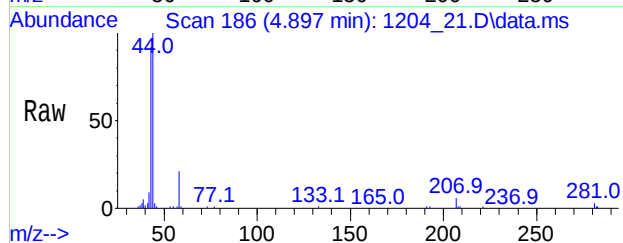
#2
Dichlorodifluoromethane
Conc: 8\$ 0.452 ppbv
RT: 3.558 min Scan# 21
Delta R.T. -0.016 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am

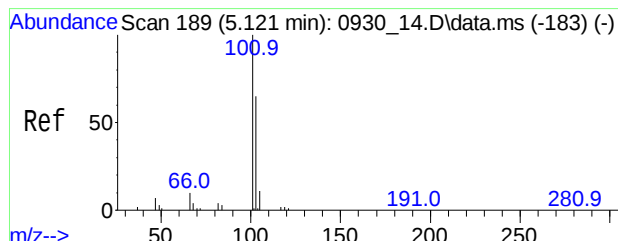
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	110256		
87	33.2	25.6	38.4	
50	20.9	10.6	15.8	



#4
Acetone
Conc: 8\$ 4.590 ppbv
RT: 4.897 min Scan# 186
Delta R.T. 0.024 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am

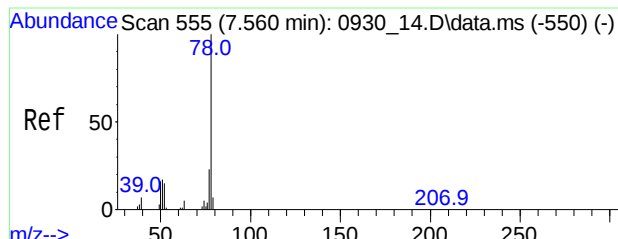
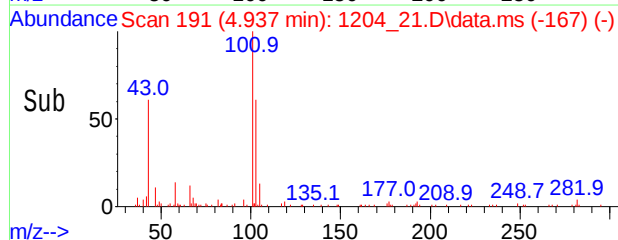
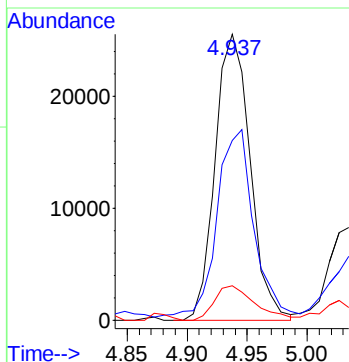
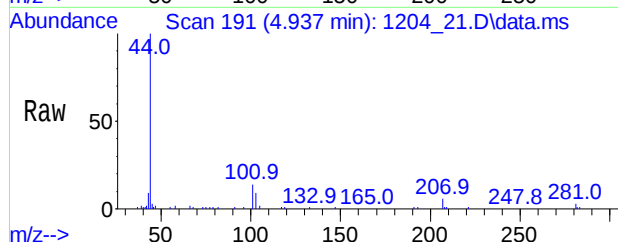
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	447582		
58	21.1	18.2	27.2	





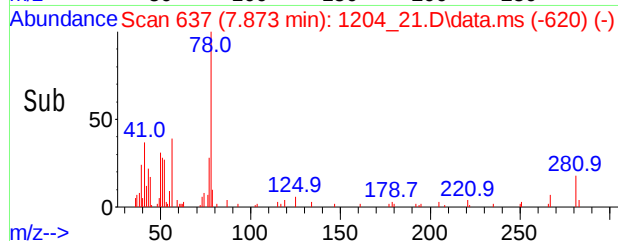
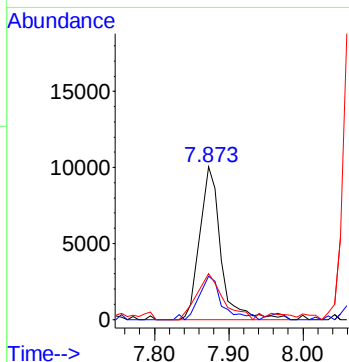
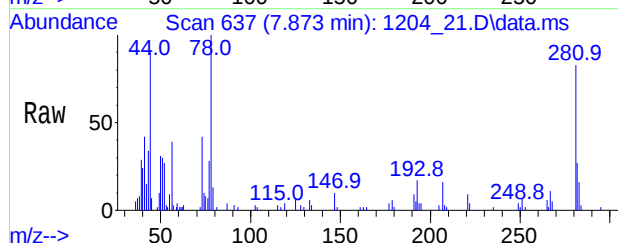
#5
 Trichlorofluoromethane
 Conc: 8\$ 0.235 ppbv
 RT: 4.937 min Scan# 191
 Delta R.T. -0.008 min
 Lab File: 1204_21.D
 Acq: 04 Dec 2019 10:24 am

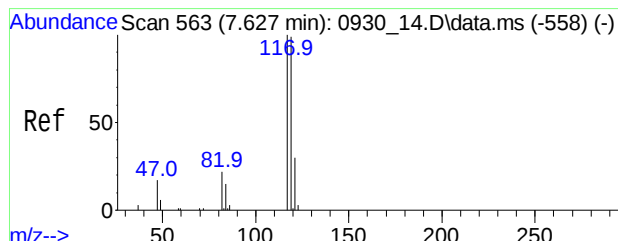
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	51705		
103	68.2	50.6	76.0	
66	14.0	9.1	13.7#	



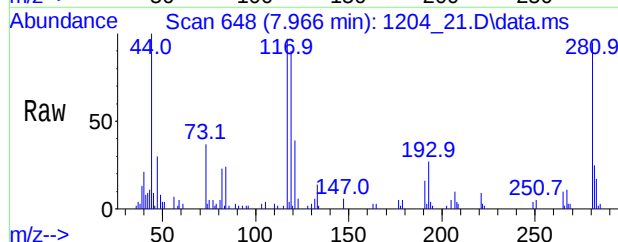
#13
 Benzene
 Conc: 8\$ 0.117 ppbv
 RT: 7.873 min Scan# 637
 Delta R.T. -0.000 min
 Lab File: 1204_21.D
 Acq: 04 Dec 2019 10:24 am

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	15812		
77	31.5	19.5	29.3#	
51	39.5	20.6	30.8#	

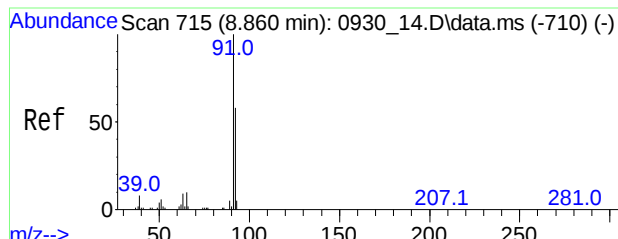
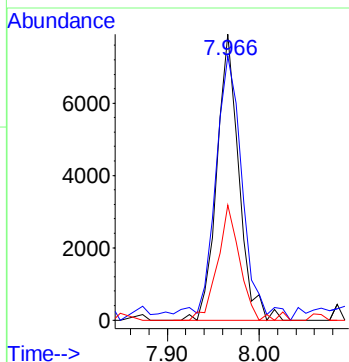
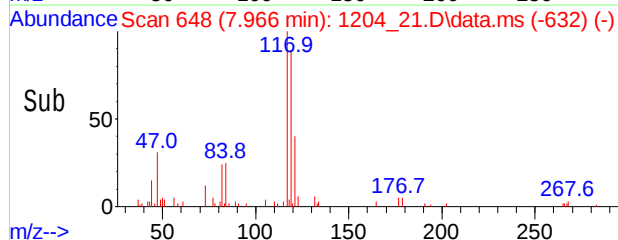




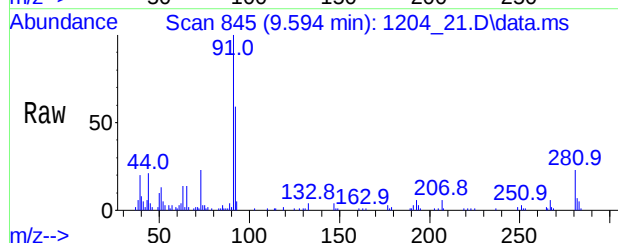
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.966 min Scan# 648
Delta R.T. -0.000 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am



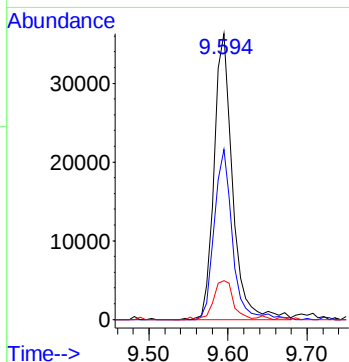
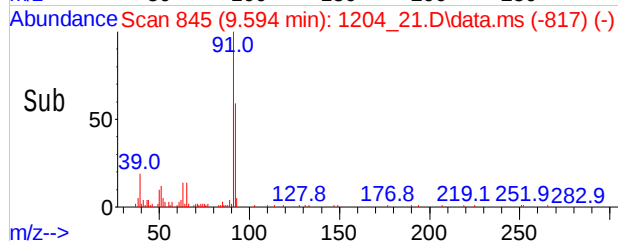
Tgt Ion: 117 Resp: 13031
Ion Ratio Lower Upper
117 100
119 116.1 74.7 114.7#
121 40.3 9.7 49.7

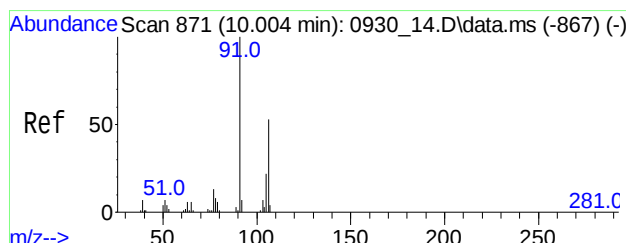


#18
Toluene
Conc: 8\$ 0.350 ppbv
RT: 9.594 min Scan# 845
Delta R.T. -0.000 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am



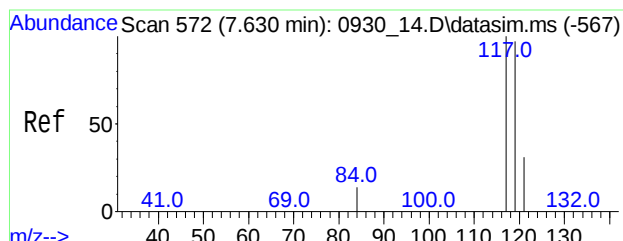
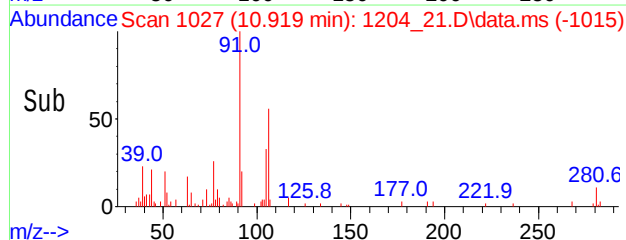
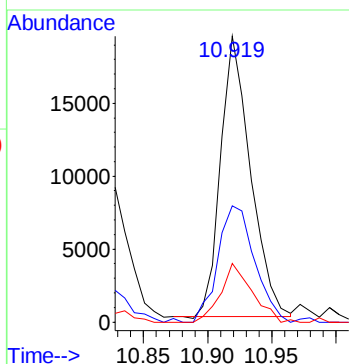
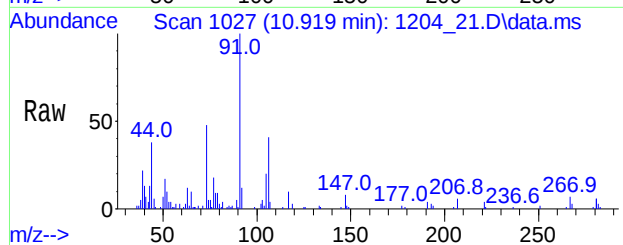
Tgt Ion: 91 Resp: 58875
Ion Ratio Lower Upper
91 100
92 58.3 48.8 73.2
65 14.4 11.6 17.4





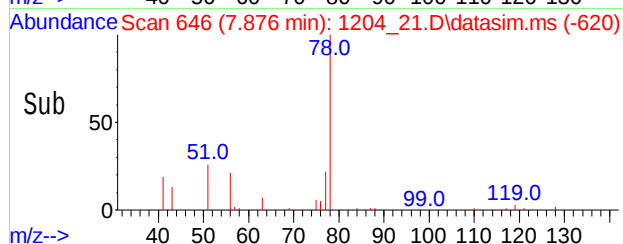
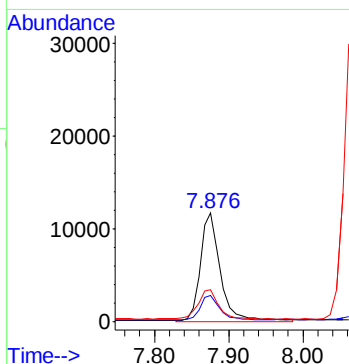
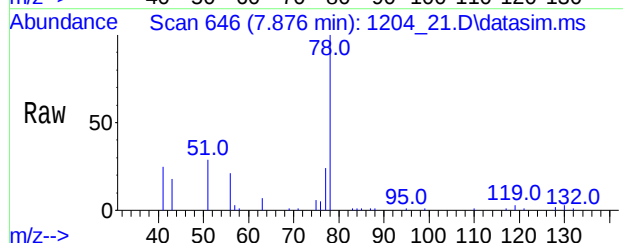
#23
m,p-Xylene
Conc: 8\$ 0.178 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. -0.008 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am

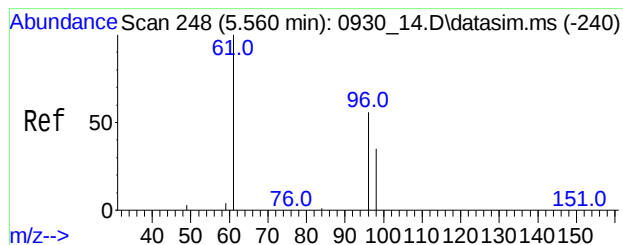
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	31119		
106	50.6	37.5	56.3	
105	21.9	16.1	24.1	



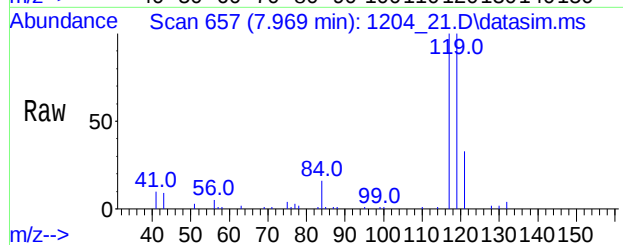
#35
Benzene(sim)
Conc: 8\$ 0.113 ug/l
RT: 7.873 min Scan# 646
Delta R.T. -0.000 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	15812		
77	31.5	19.5	29.3#	
51	39.5	20.6	30.8#	

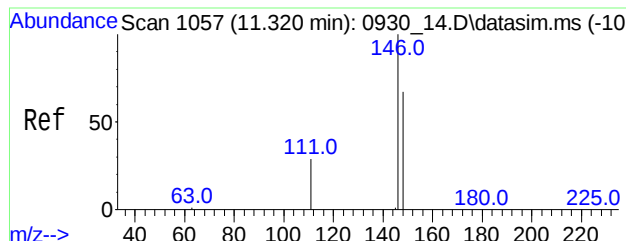
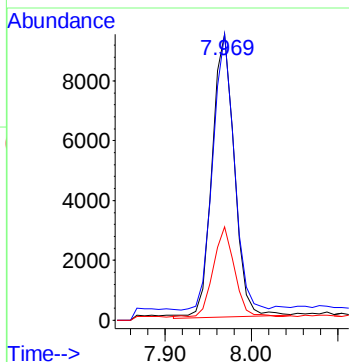
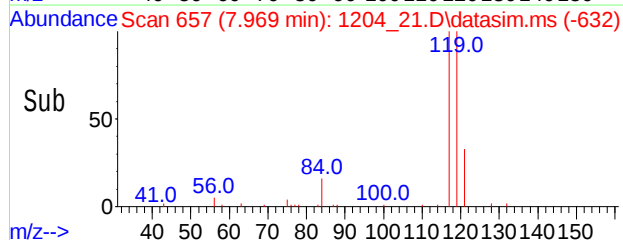




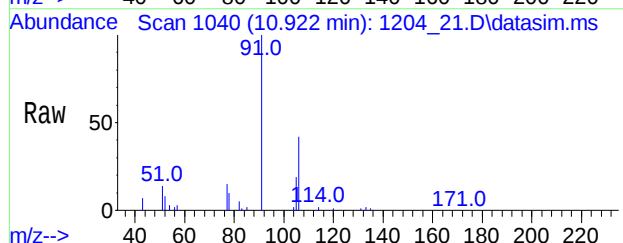
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.073 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am



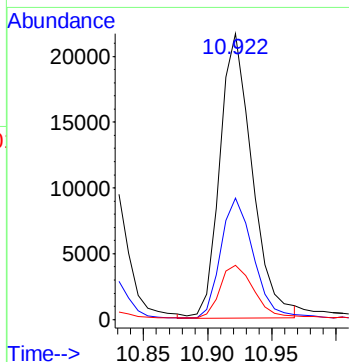
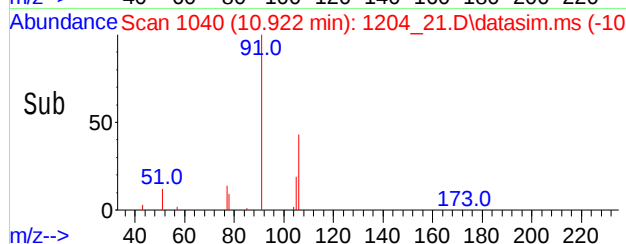
Tgt Ion: 117 Resp: 16996
Ion Ratio Lower Upper
117 100
119 96.5 76.7 115.1
121 32.2 24.5 36.7



#49
m,p-Xylene(sim)
Conc: 8\$ 0.163 ppbv
RT: 10.919 min Scan# 1040
Delta R.T. -0.008 min
Lab File: 1204_21.D
Acq: 04 Dec 2019 10:24 am



Tgt Ion: 91 Resp: 32607
Ion Ratio Lower Upper
91 100
106 48.3 42.3 51.7
105 20.9 16.0 24.0



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_24.D
 Acq On : 04 Dec 2019 12:56 pm
 Operator : CORTEX\ms
 Client ID : IA-3
 Lab ID : CE70609
 ALS Vial : 1 Sample Multiplier: 1

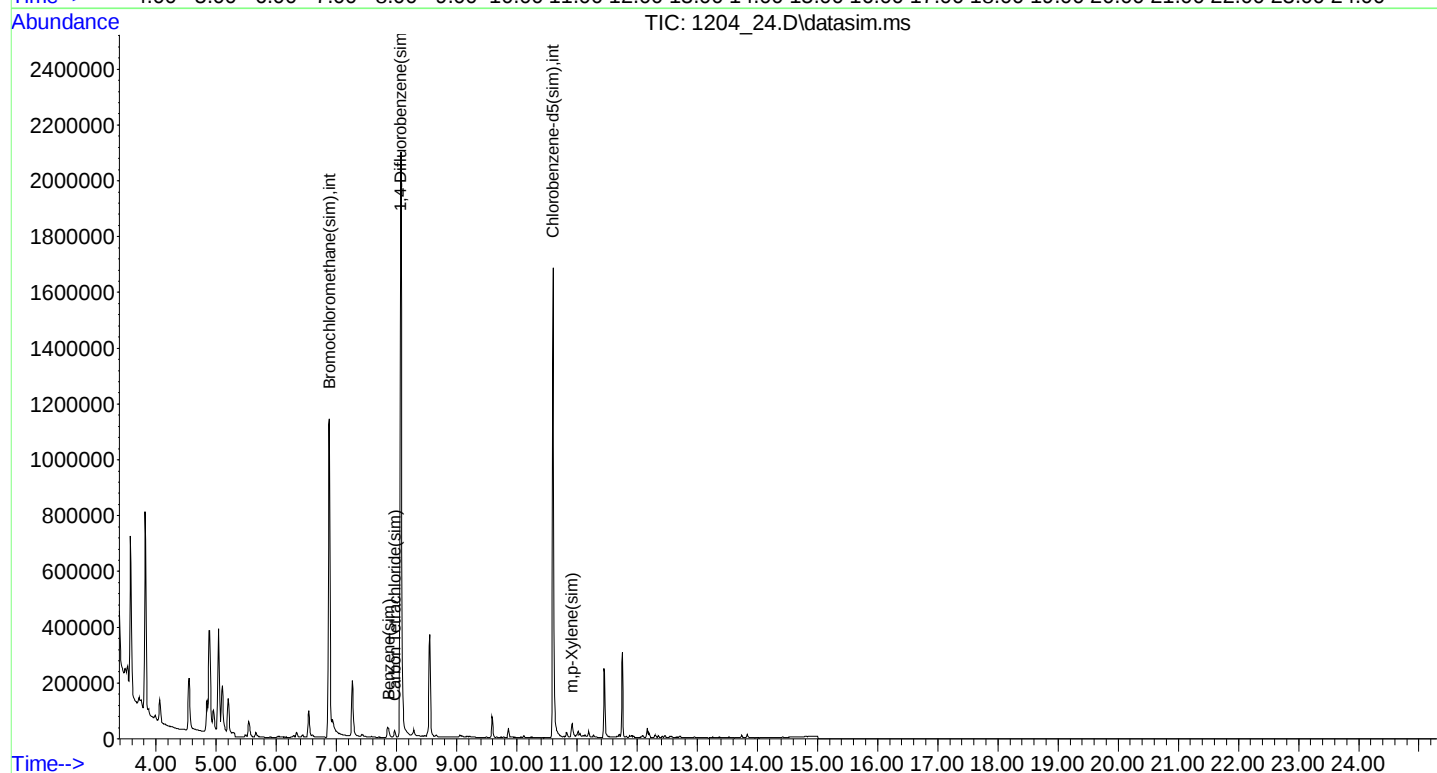
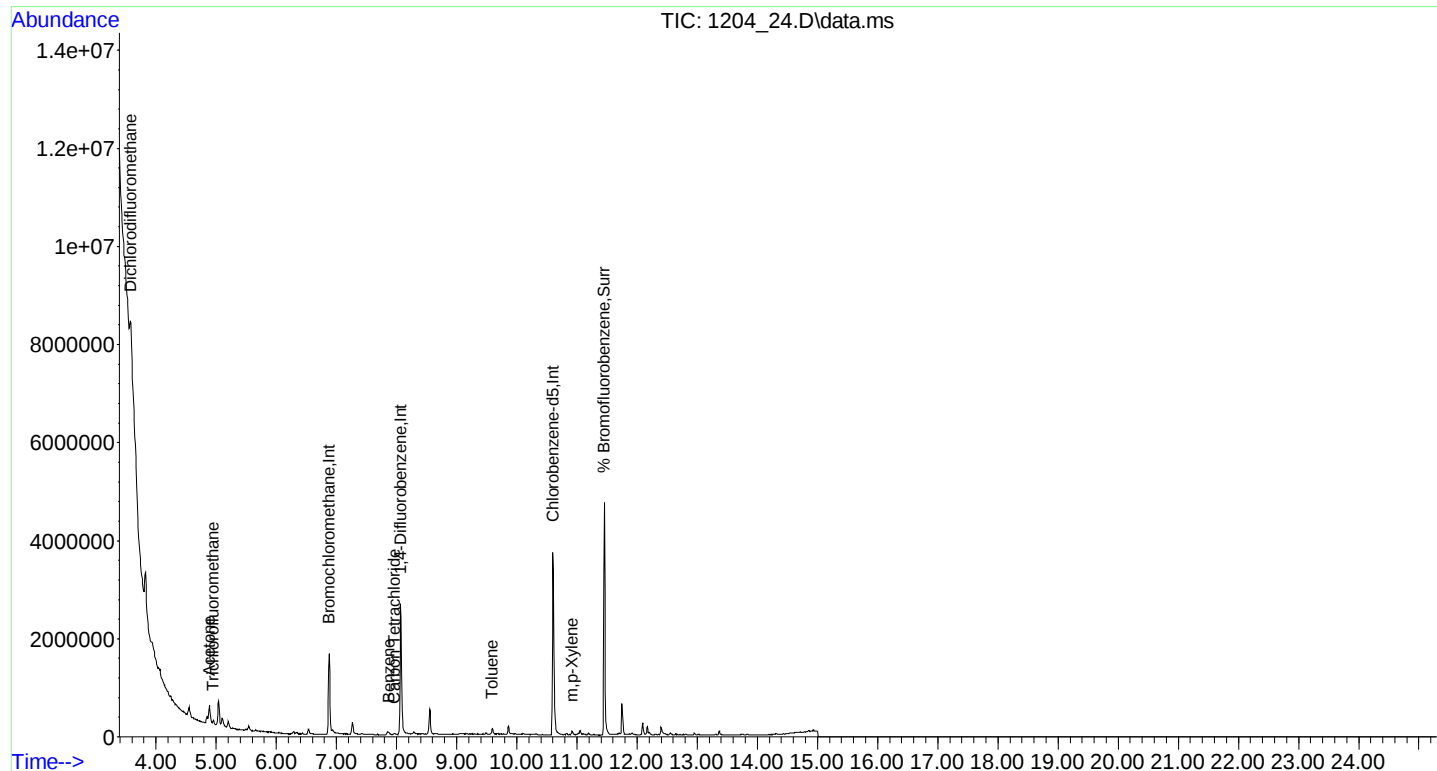
Quant Time: Dec 04 14:47:12 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

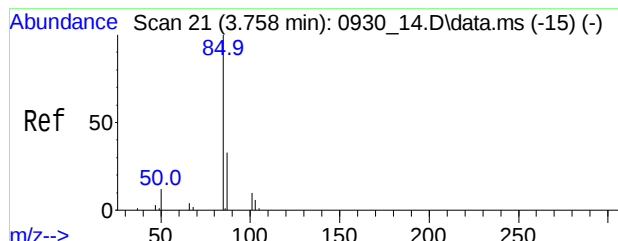
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	432643	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1717686	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	954559	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	580645	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2016669	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1001349	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1249624	9.554	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.50%
Target Compounds						
2) Dichlorodifluoromethane	3.574	85	114084	0.494	ppbv#	92
4) Acetone	4.889	43	635651	6.876	ppbv	96
5) Trichlorofluoromethane	4.953	101	53992	0.259	ppbv	98
13) Benzene	7.873	78	17820	0.140	ppbv#	81
14) Carbon Tetrachloride	7.966	117	13552	0.079	ppbv	93
18) Toluene	9.594	91	58165	0.359	ppbv	99
23) m,p-Xylene	10.919	91	39251	0.234	ppbv	99
35] Benzene(sim)	7.873	78	17820	0.134	ug/l#	81
36] Carbon Tetrachloride(sim)	7.969	117	16472	0.074	ppbv	98
49] m,p-Xylene(sim)	10.919	91	39251	0.202	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_24.D
Acq On : 04 Dec 2019 12:56 pm
Operator : CORTEX\ms
Client ID : IA-3
Lab ID : CE70609
ALS Vial : 1 Sample Multiplier: 1

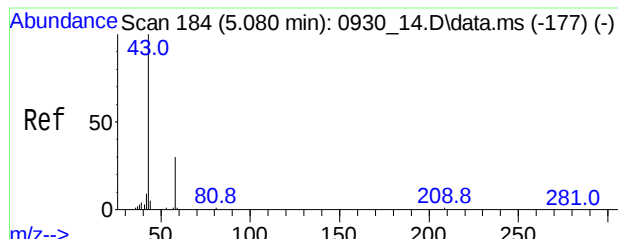
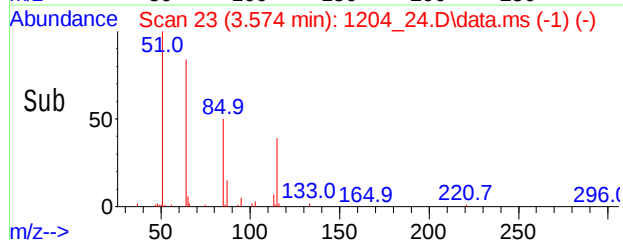
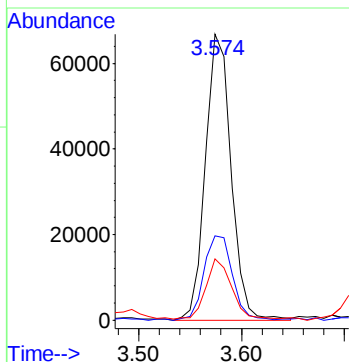
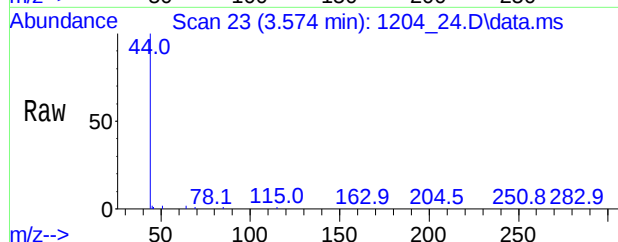
Quant Time: Dec 04 14:47:12 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:30:23 2019
Response via : Initial Calibration





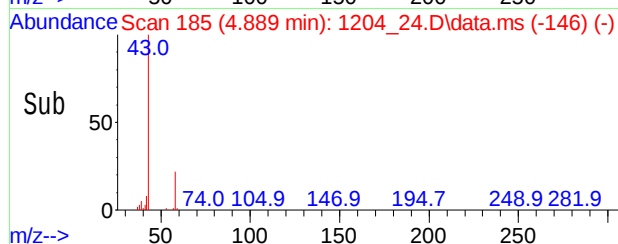
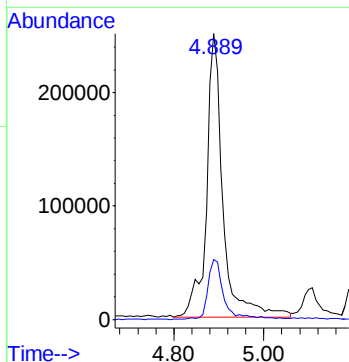
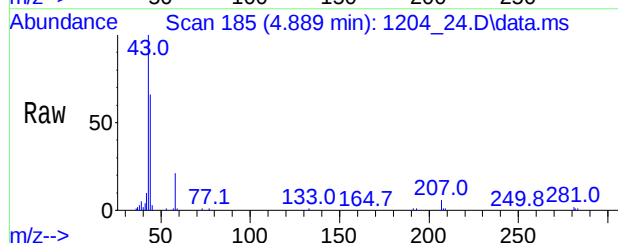
#2
Dichlorodifluoromethane
Conc: 8\$ 0.494 ppbv
RT: 3.574 min Scan# 23
Delta R.T. -0.000 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm

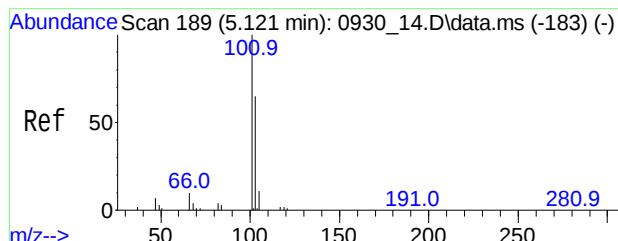
Tgt	Ion	Ratio	Resp	Lower	Upper
85	85	100	114084		
87	87	32.8	25.6	38.4	
50	50	22.5	10.6	15.8	#



#4
Acetone
Conc: 8\$ 6.876 ppbv
RT: 4.889 min Scan# 185
Delta R.T. 0.016 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm

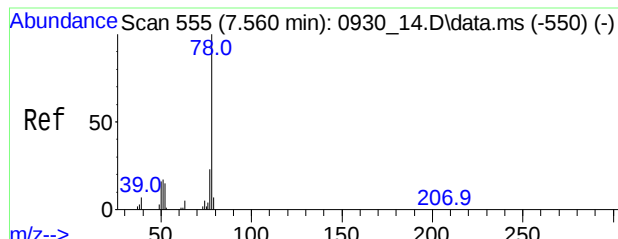
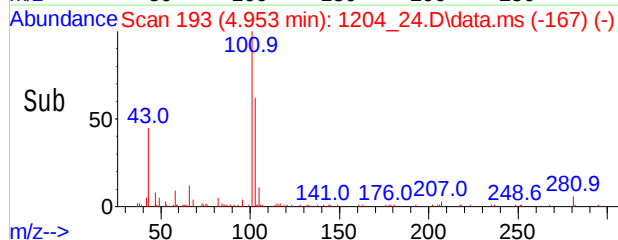
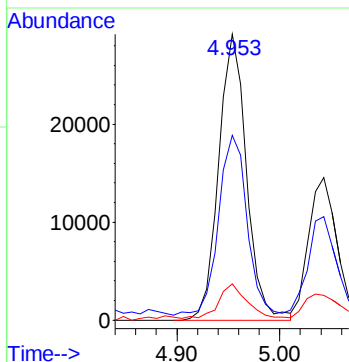
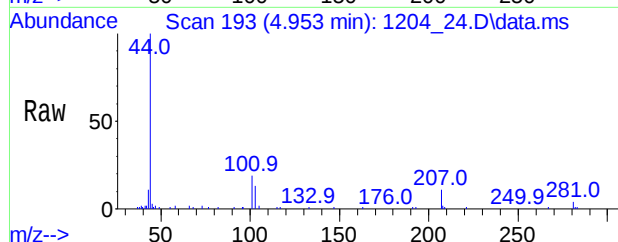
Tgt	Ion	Ratio	Resp	Lower	Upper
43	43	100	635651		
58	58	20.8	18.2	27.2	





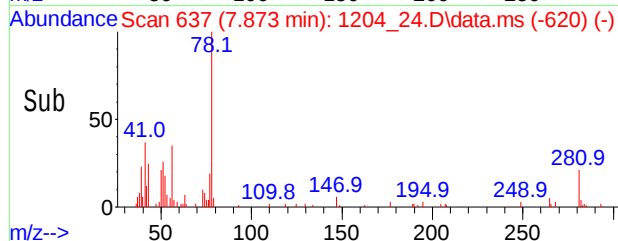
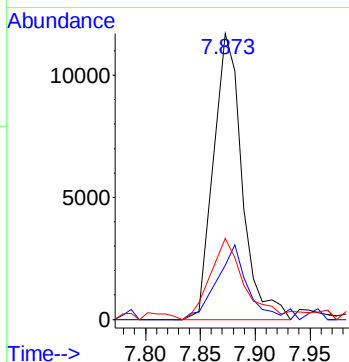
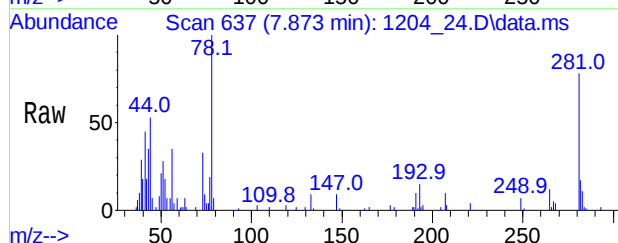
#5
 Trichlorofluoromethane
 Conc: 8\$ 0.259 ppbv
 RT: 4.953 min Scan# 193
 Delta R.T. 0.008 min
 Lab File: 1204_24.D
 Acq: 04 Dec 2019 12:56 pm

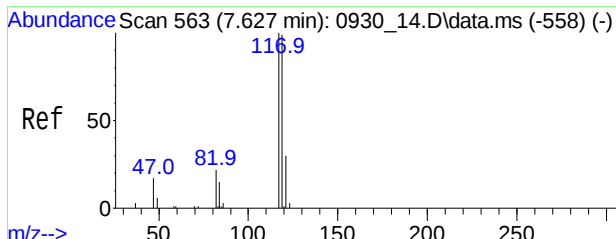
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	53992		
103	64.6	50.6	76.0	
66	12.3	9.1	13.7	



#13
 Benzene
 Conc: 8\$ 0.140 ppbv
 RT: 7.873 min Scan# 637
 Delta R.T. -0.000 min
 Lab File: 1204_24.D
 Acq: 04 Dec 2019 12:56 pm

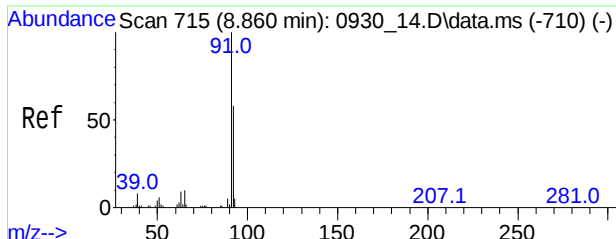
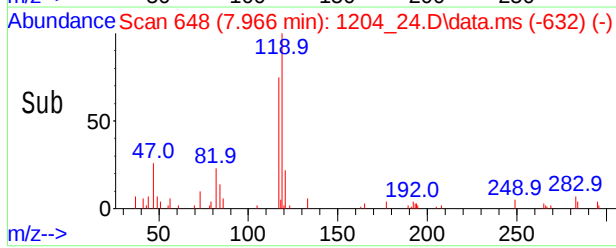
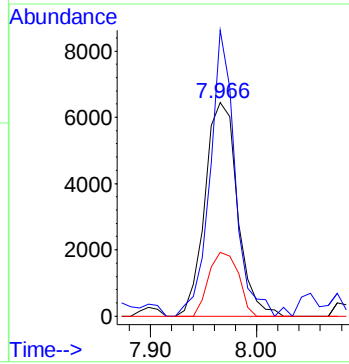
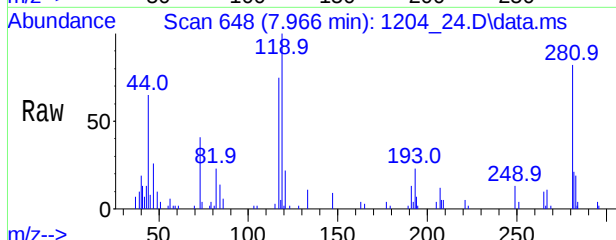
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	17820		
77	31.2	19.5	29.3#	
51	37.7	20.6	30.8#	





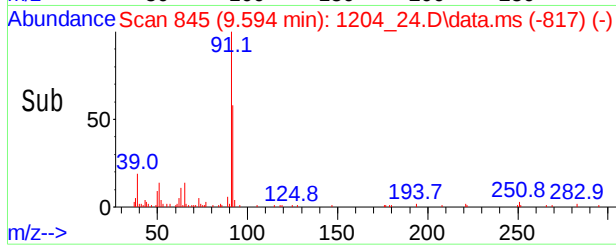
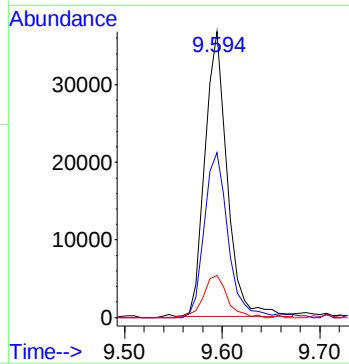
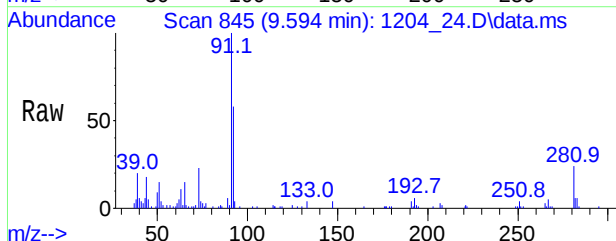
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.966 min Scan# 648
Delta R.T. -0.000 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm

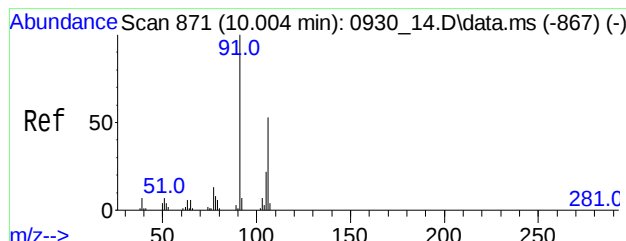
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	13552		
119	102.2	74.7	114.7	
121	27.3	9.7	49.7	



#18
Toluene
Conc: 8\$ 0.359 ppbv
RT: 9.594 min Scan# 845
Delta R.T. -0.000 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm

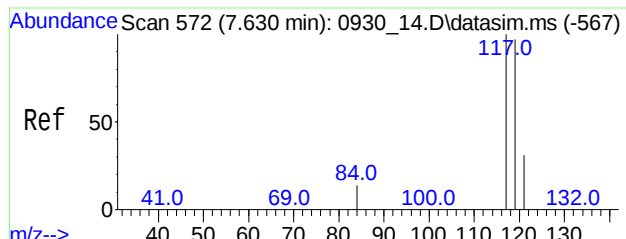
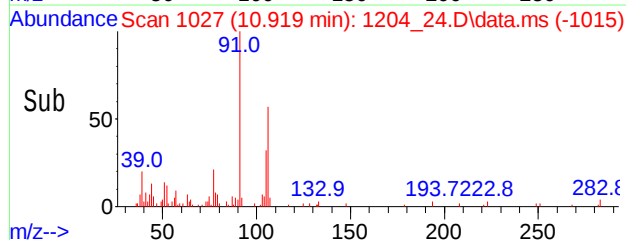
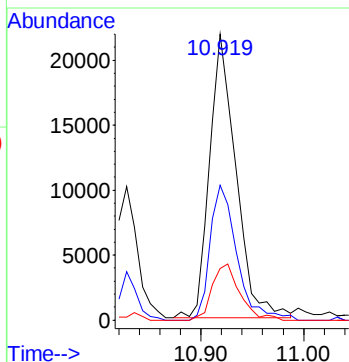
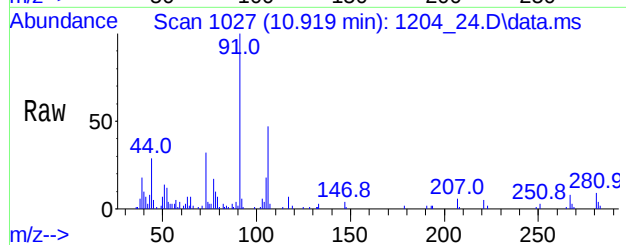
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	58165		
92	61.5	48.8	73.2	
65	15.8	11.6	17.4	





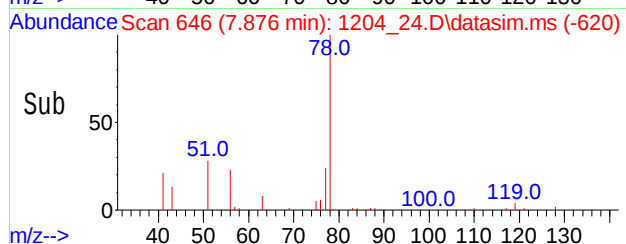
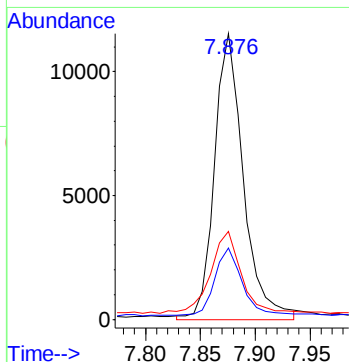
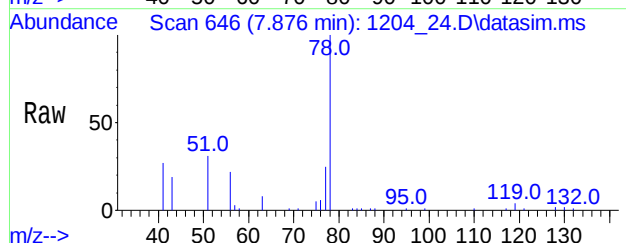
#23
m,p-Xylene
Conc: 8\$ 0.234 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. -0.008 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm

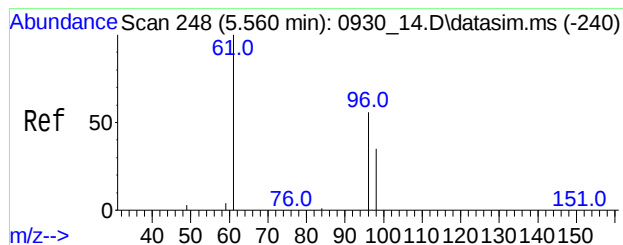
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	39251		
106	47.9	37.5	56.3	
105	20.6	16.1	24.1	



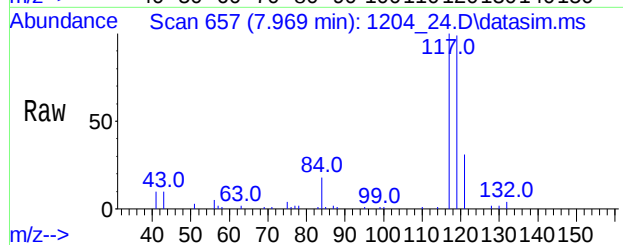
#35
Benzene(sim)
Conc: 8\$ 0.134 ug/l
RT: 7.873 min Scan# 646
Delta R.T. -0.000 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	17820		
77	31.2	19.5	29.3#	
51	37.7	20.6	30.8#	

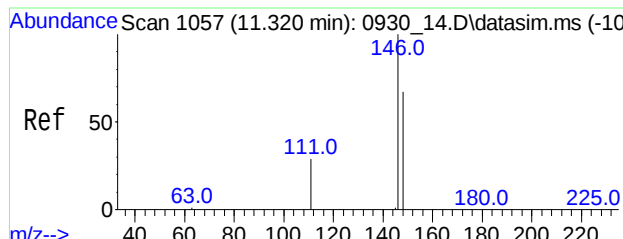
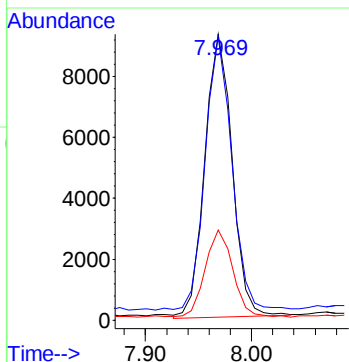
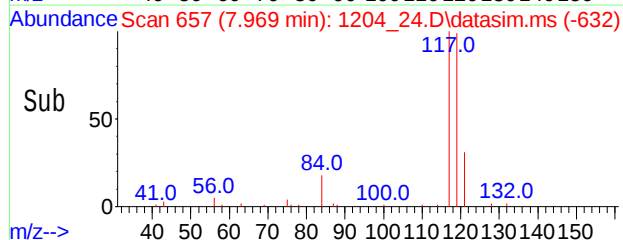




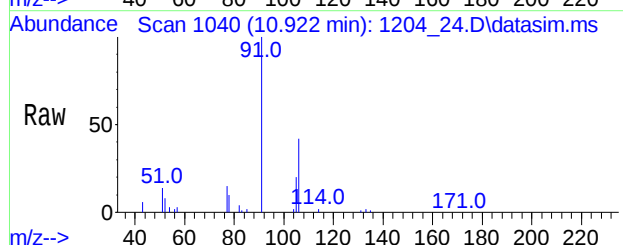
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.074 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm



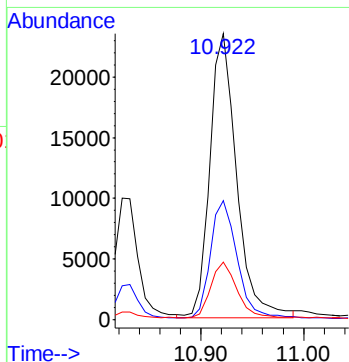
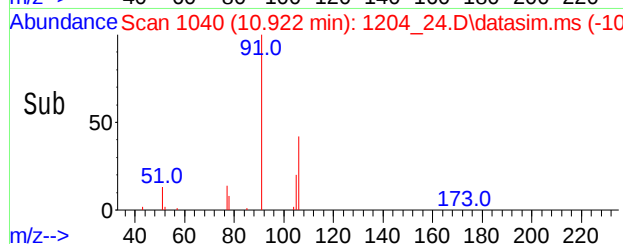
Tgt Ion: 117 Resp: 16472
Ion Ratio Lower Upper
117 100
119 96.4 76.7 115.1
121 33.5 24.5 36.7



#49
m,p-Xylene(sim)
Conc: 8\$ 0.202 ppbv
RT: 10.919 min Scan# 1040
Delta R.T. -0.008 min
Lab File: 1204_24.D
Acq: 04 Dec 2019 12:56 pm



Tgt Ion: 91 Resp: 39251
Ion Ratio Lower Upper
91 100
106 47.9 42.3 51.7
105 20.6 16.0 24.0



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_25.D
 Acq On : 04 Dec 2019 03:34 pm
 Operator : CORTEX\ms
 Client ID : IA-4
 Lab ID : CE70610
 ALS Vial : 1 Sample Multiplier: 1

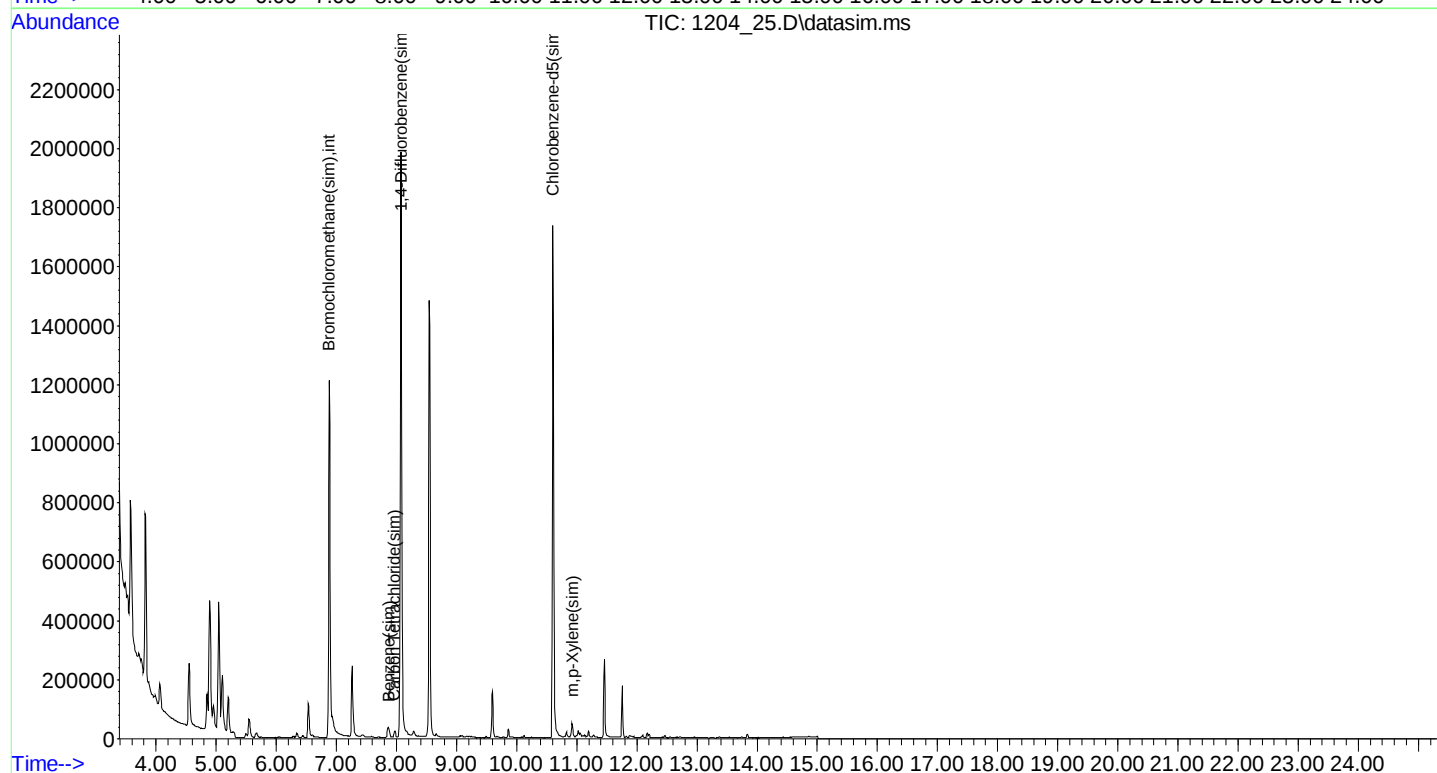
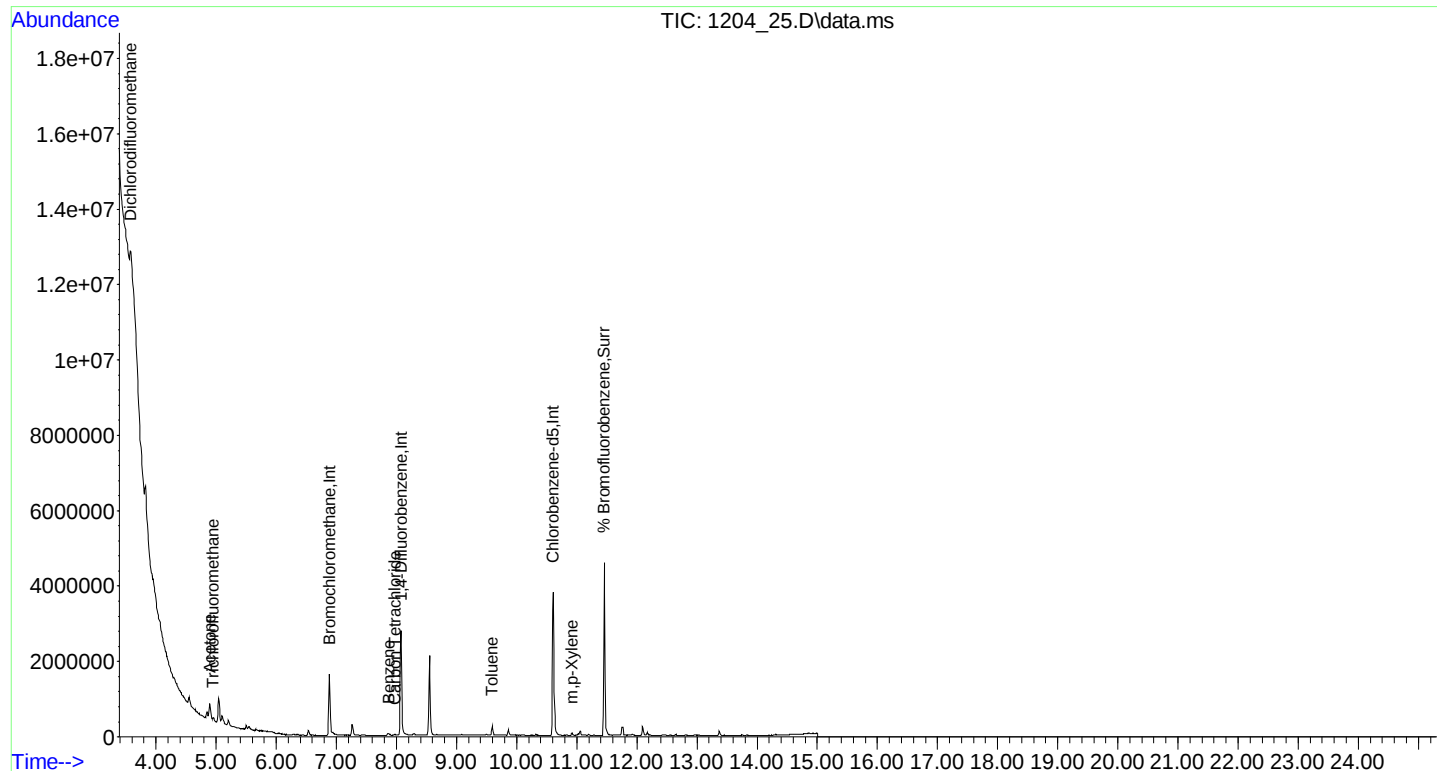
Quant Time: Dec 05 09:16:02 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:16 2019
 Response via : Initial Calibration

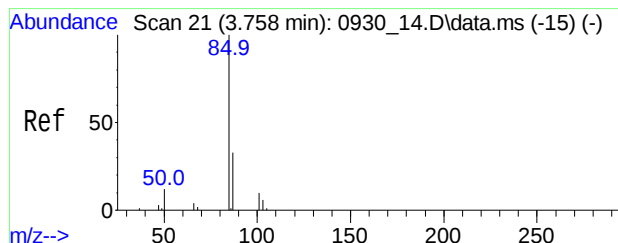
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.888	130	434345	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	1717821	10.000	ng	0.00
20) Chlorobenzene-d5	10.608	82	945610	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	577864	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.079	114	2013021	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1012631	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1225746	9.460	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.60%
Target Compounds						
2) Dichlorodifluoromethane	3.574	85	110193	0.475	ppbv#	93
4) Acetone	4.897	43	704753	7.593	ppbv	95
5) Trichlorofluoromethane	4.953	101	55241	0.264	ppbv#	97
13) Benzene	7.881	78	18967	0.148	ppbv#	82
14) Carbon Tetrachloride	7.974	117	12550	0.072	ppbv#	81
18) Toluene	9.594	91	125487	0.774	ppbv	95
23) m,p-Xylene	10.926	91	35072	0.211	ppbv	93
35] Benzene(sim)	7.881	78	18967	0.143	ug/l#	82
36] Carbon Tetrachloride(sim)	7.969	117	16362	0.074	ppbv	98
49] m,p-Xylene(sim)	10.926	91	35072	0.179	ppbv#	93

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_25.D
Acq On : 04 Dec 2019 03:34 pm
Operator : CORTEX\ms
Client ID : IA-4
Lab ID : CE70610
ALS Vial : 1 Sample Multiplier: 1

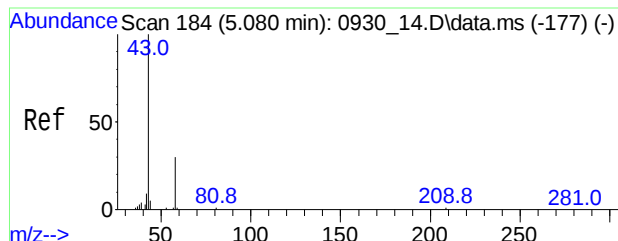
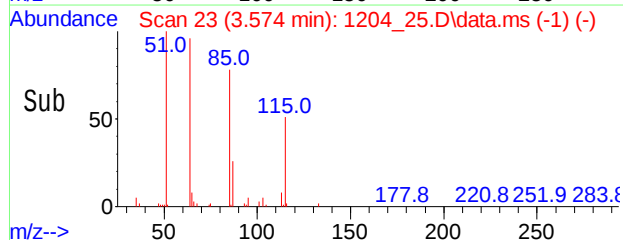
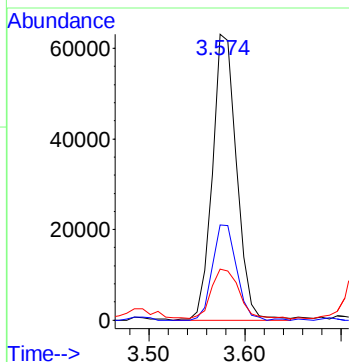
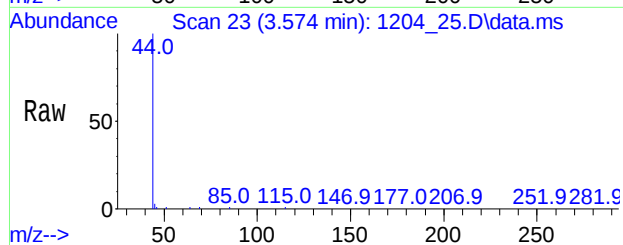
Quant Time: Dec 05 09:16:02 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:30:16 2019
Response via : Initial Calibration





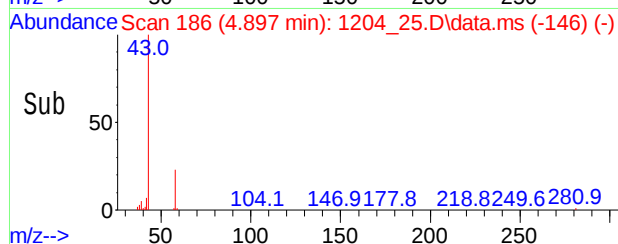
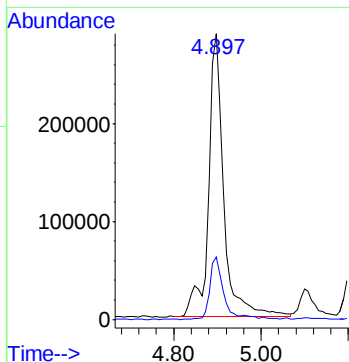
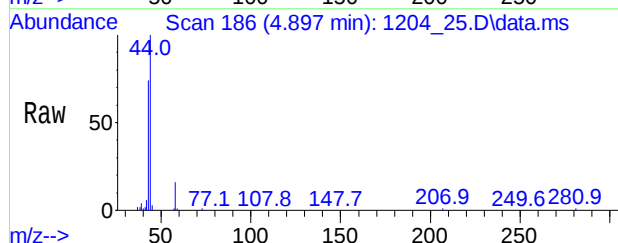
#2
Dichlorodifluoromethane
Conc: 8\$ 0.475 ppbv
RT: 3.574 min Scan# 23
Delta R.T. -0.000 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm

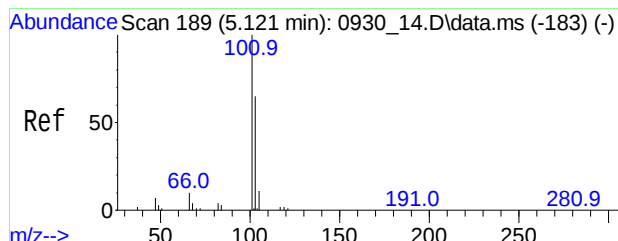
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	110193		
87	33.2	25.6	38.4	
50	20.0	10.6	15.8	



#4
Acetone
Conc: 8\$ 7.593 ppbv
RT: 4.897 min Scan# 186
Delta R.T. 0.024 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm

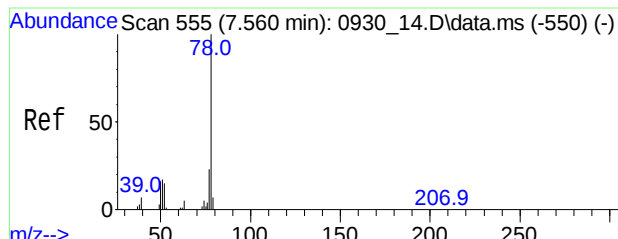
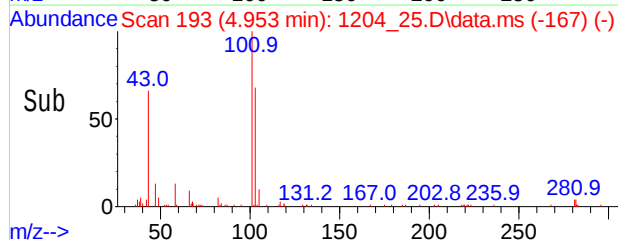
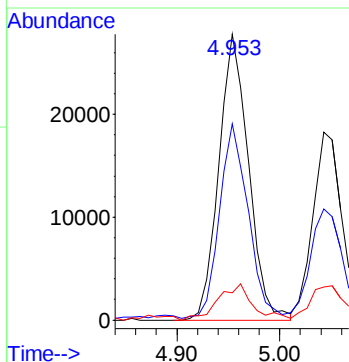
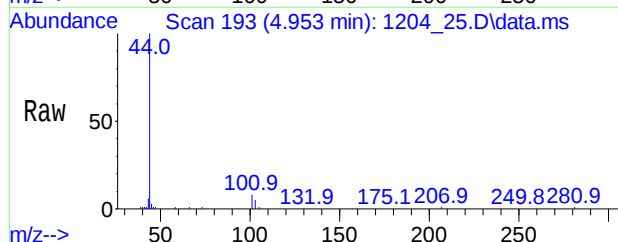
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	704753		
58	20.3	18.2	27.2	





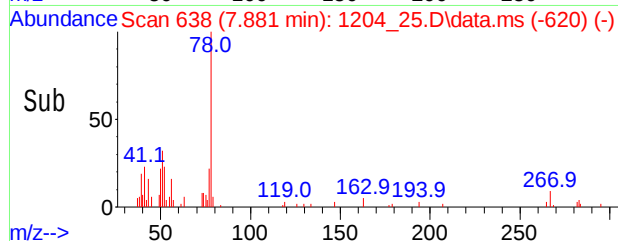
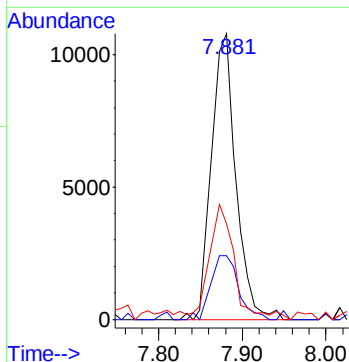
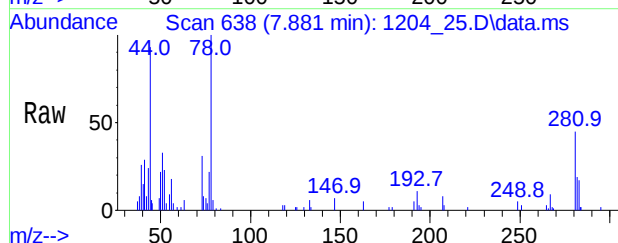
#5
 Trichlorofluoromethane
 Conc: 8\$ 0.264 ppbv
 RT: 4.953 min Scan# 193
 Delta R.T. 0.008 min
 Lab File: 1204_25.D
 Acq: 04 Dec 2019 03:34 pm

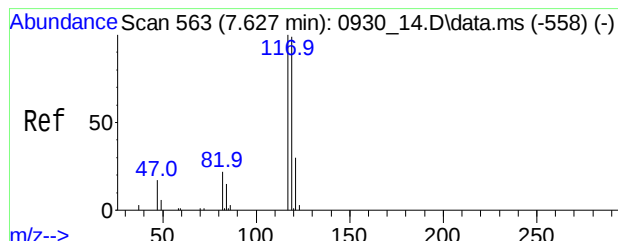
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	55241		
103	65.1	50.6	76.0	
66	14.7	9.1	13.7	



#13
 Benzene
 Conc: 8\$ 0.148 ppbv
 RT: 7.881 min Scan# 638
 Delta R.T. 0.008 min
 Lab File: 1204_25.D
 Acq: 04 Dec 2019 03:34 pm

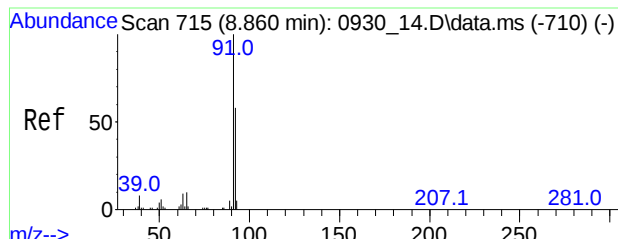
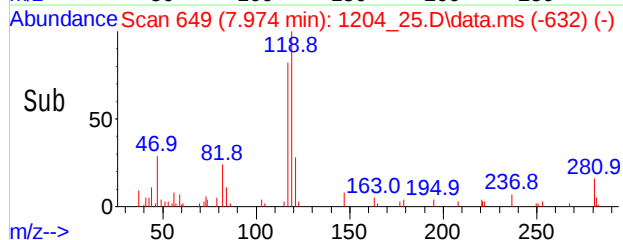
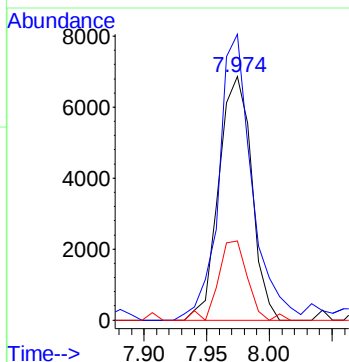
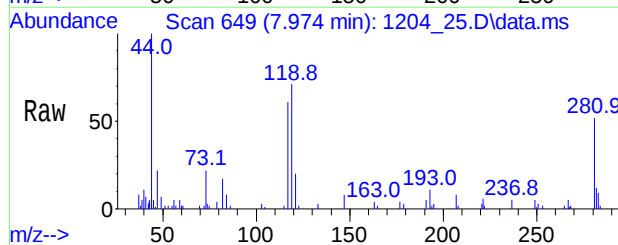
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	18967		
77	27.5	19.5	29.3	
51	40.4	20.6	30.8	





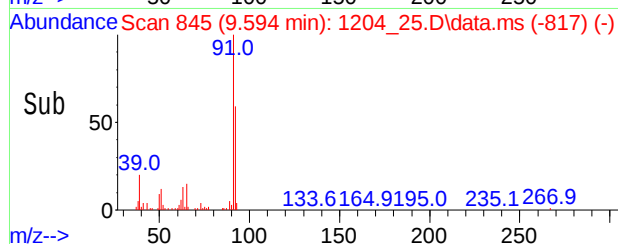
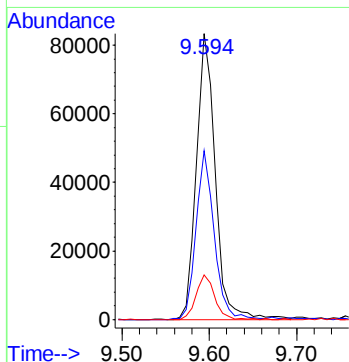
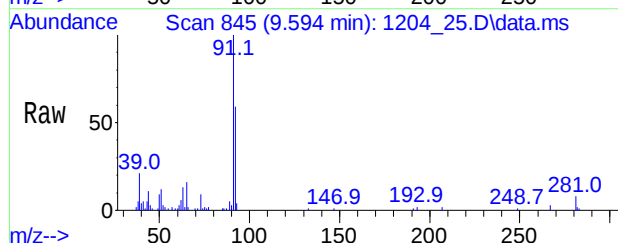
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.974 min Scan# 649
Delta R.T. 0.008 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm

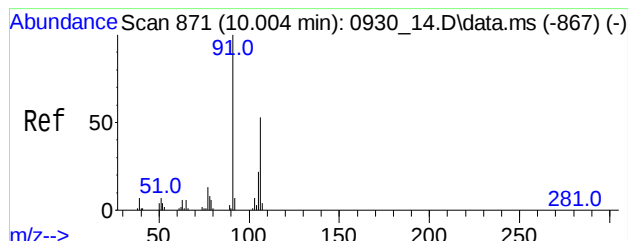
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	12550		
119	117.9	74.7	114.7#	
121	29.1	9.7	49.7	



#18
Toluene
Conc: 8\$ 0.774 ppbv
RT: 9.594 min Scan# 845
Delta R.T. -0.000 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm

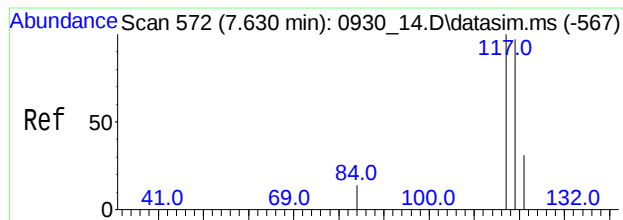
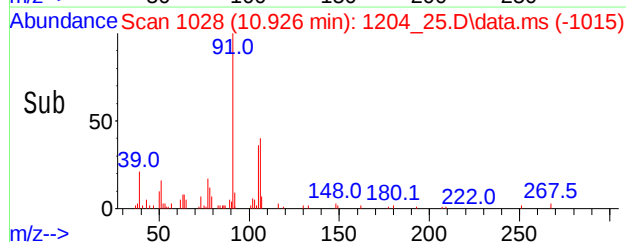
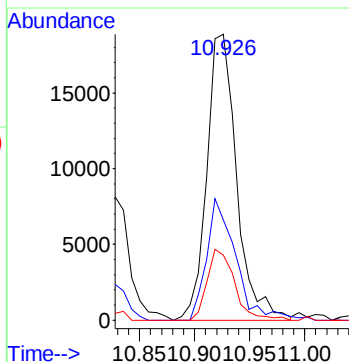
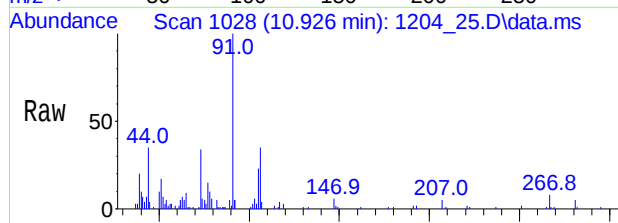
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	125487		
92	56.8	48.8	73.2	
65	15.2	11.6	17.4	





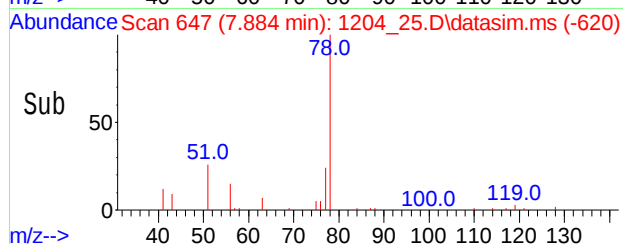
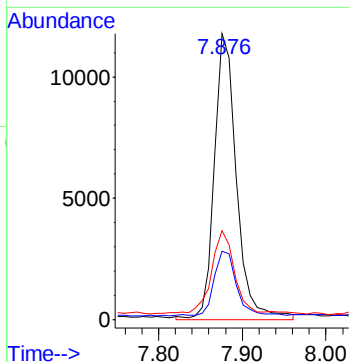
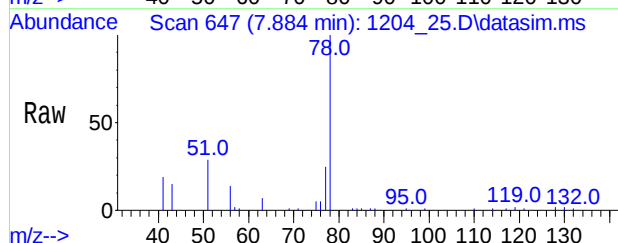
#23
m,p-Xylene
Conc: 8\$ 0.211 ppbv
RT: 10.926 min Scan# 1028
Delta R.T. -0.000 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm

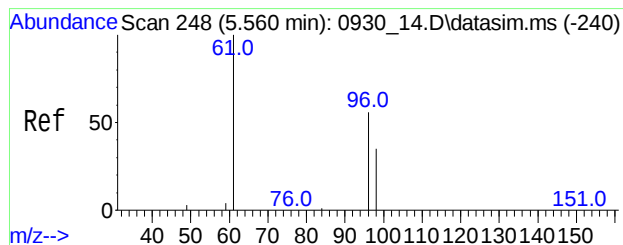
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	35072		
106	41.5	37.5	56.3	
105	22.8	16.1	24.1	



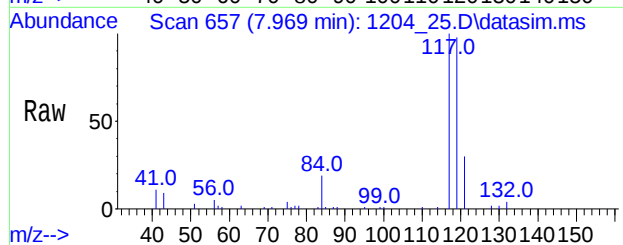
#35
Benzene(sim)
Conc: 8\$ 0.143 ug/l
RT: 7.881 min Scan# 647
Delta R.T. 0.008 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	18967		
77	27.5	19.5	29.3	
51	40.4	20.6	30.8	

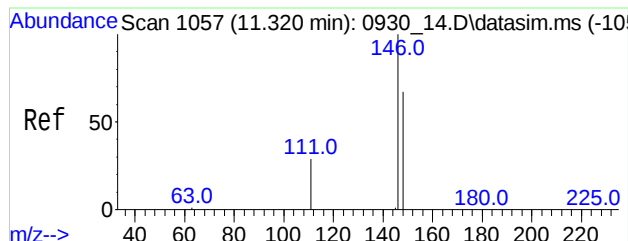
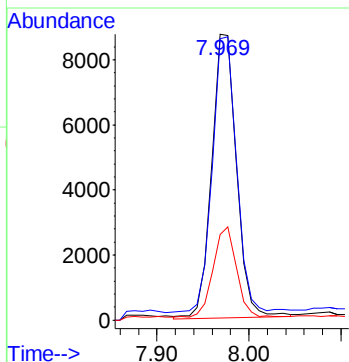
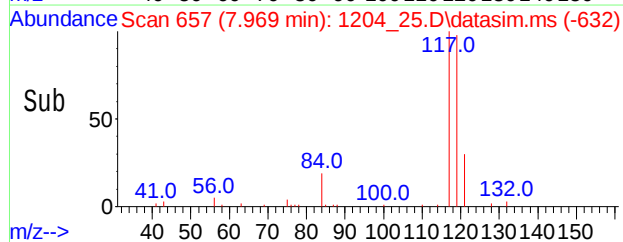




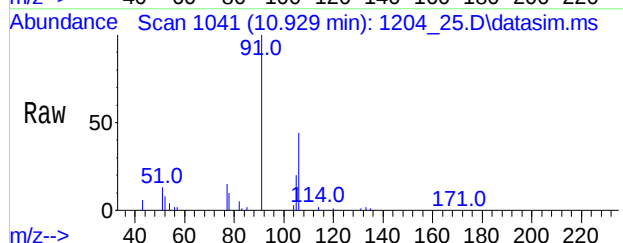
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.074 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm



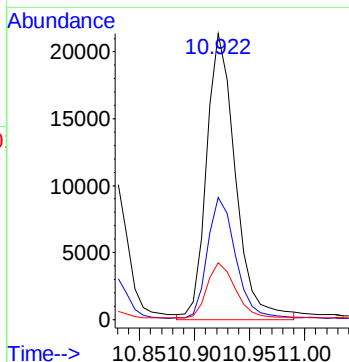
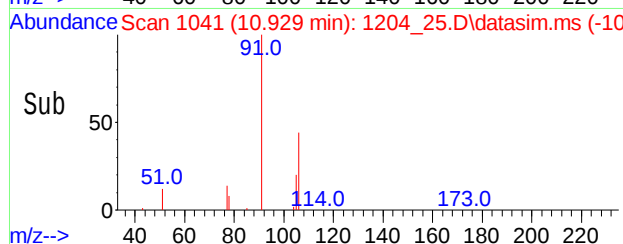
Tgt Ion: 117 Resp: 16362
Ion Ratio Lower Upper
117 100
119 98.6 76.7 115.1
121 31.2 24.5 36.7



#49
m,p-Xylene(sim)
Conc: 8\$ 0.179 ppbv
RT: 10.926 min Scan# 1041
Delta R.T. -0.000 min
Lab File: 1204_25.D
Acq: 04 Dec 2019 03:34 pm



Tgt Ion: 91 Resp: 35072
Ion Ratio Lower Upper
91 100
106 41.8 42.3 51.7#
105 22.8 16.0 24.0



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_26.D
 Acq On : 04 Dec 2019 04:14 pm
 Operator : CORTEX\ms
 Client ID : IA-5
 Lab ID : CE70611
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 09:16:05 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

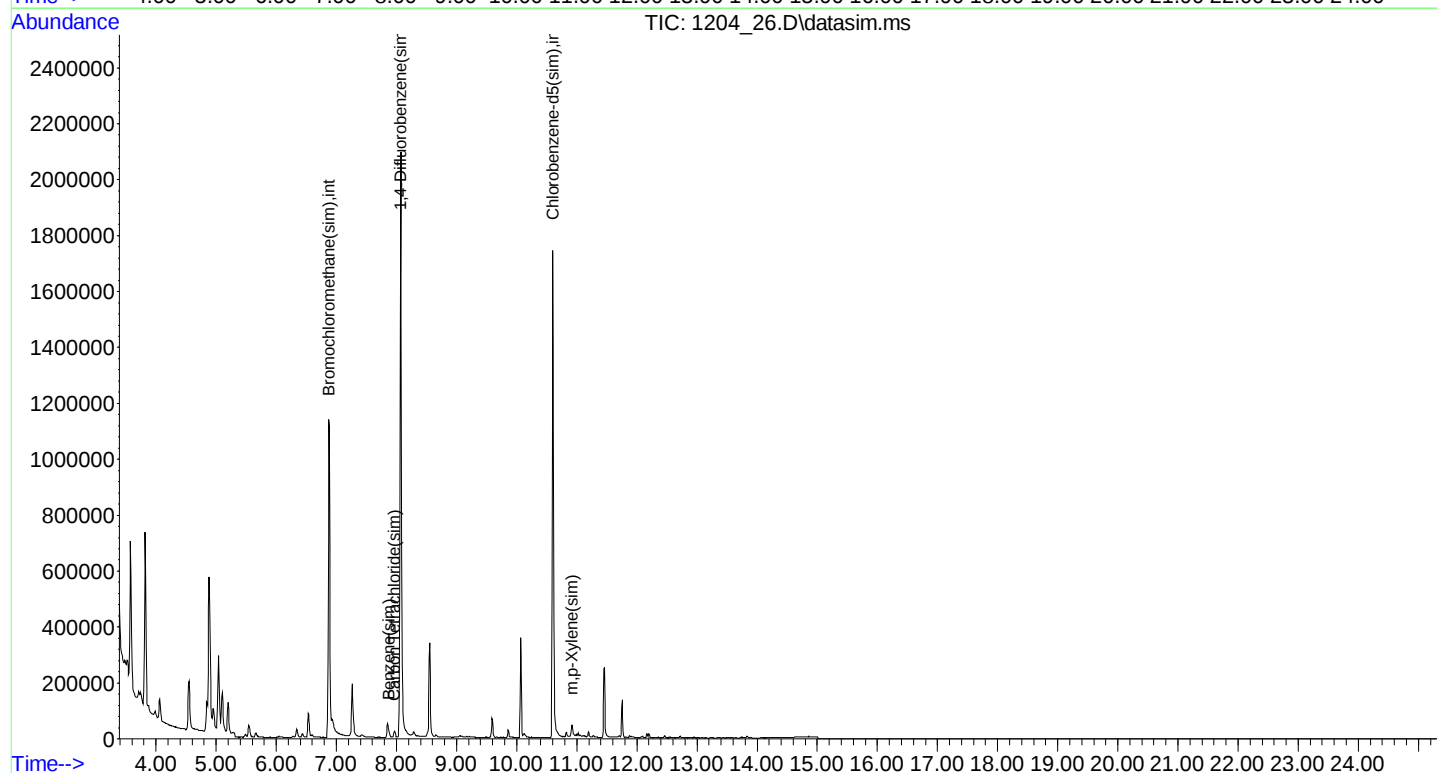
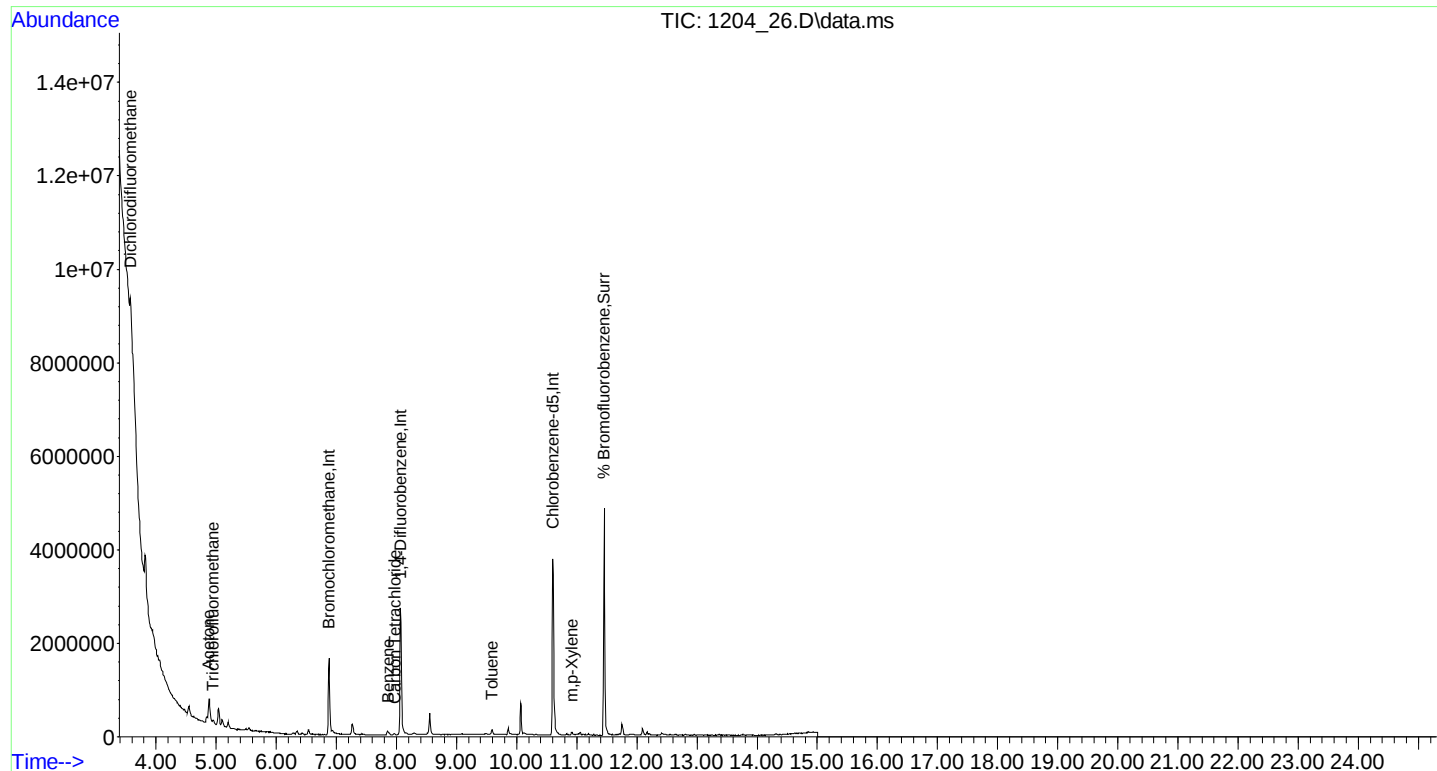
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	427378	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1668886	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	955236	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	568516	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	1981608	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1018115	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1251854	9.564	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.60%
Target Compounds						
2) Dichlorodifluoromethane	3.574	85	109585	0.480	ppbv#	92
4) Acetone	4.880	43	891262	9.760	ppbv	94
5) Trichlorofluoromethane	4.953	101	52105	0.253	ppbv#	98
13) Benzene	7.873	78	15928	0.126	ppbv#	90
14) Carbon Tetrachloride	7.974	117	11722	0.069	ppbv	86
18) Toluene	9.594	91	52812	0.335	ppbv	97
23) m,p-Xylene	10.919	91	32101	0.191	ppbv	96
35] Benzene(sim)	7.873	78	15928	0.122	ug/l#	88
36] Carbon Tetrachloride(sim)	7.969	117	15927	0.073	ppbv	99
49] m,p-Xylene(sim)	10.919	91	35226	0.179	ppbv#	93

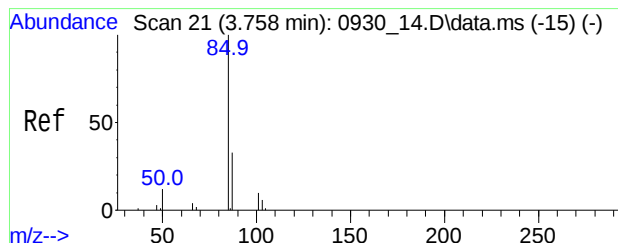
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_26.D
 Acq On : 04 Dec 2019 04:14 pm
 Operator : CORTEX\ms
 Client ID : IA-5
 Lab ID : CE70611
 ALS Vial : 1 Sample Multiplier: 1

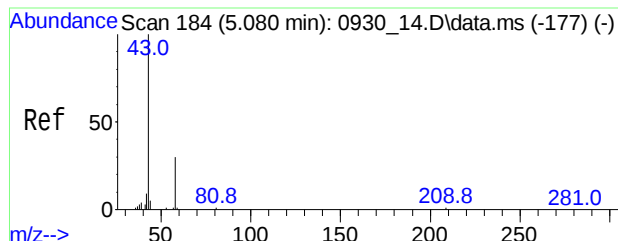
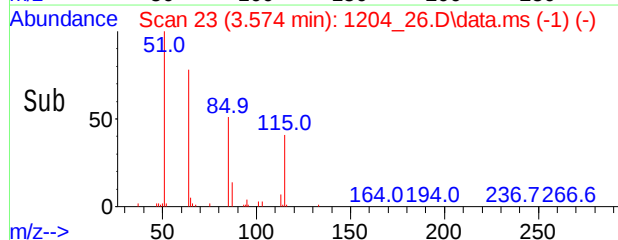
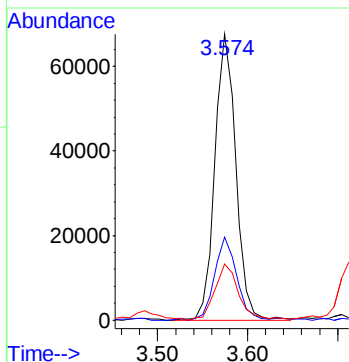
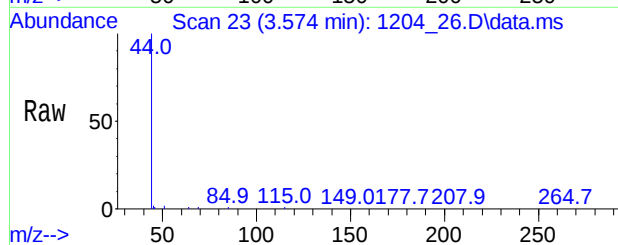
Quant Time: Dec 05 09:16:05 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration





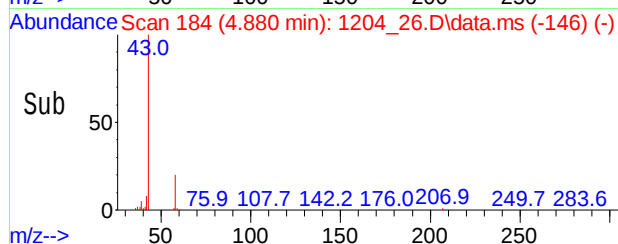
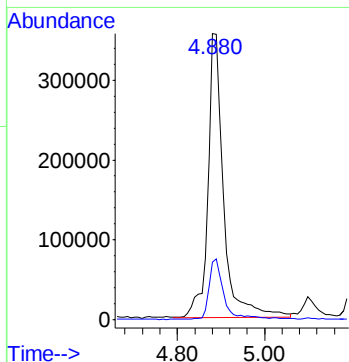
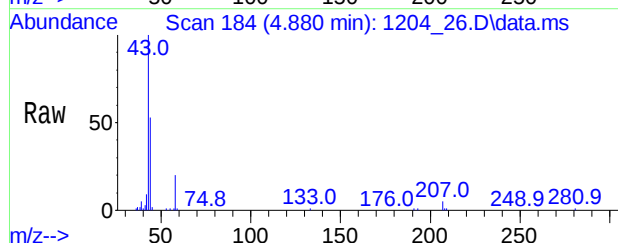
#2
Dichlorodifluoromethane
Conc: 8\$ 0.480 ppbv
RT: 3.574 min Scan# 23
Delta R.T. -0.000 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm

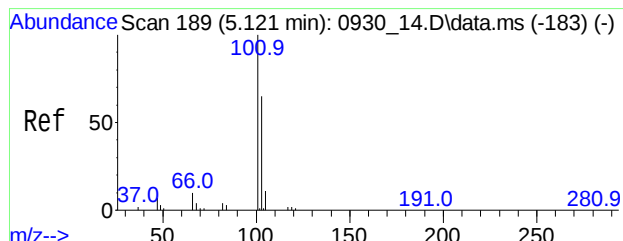
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	109585		
87	30.6	25.6	38.4	
50	22.4	10.6	15.8	



#4
Acetone
Conc: 8\$ 9.760 ppbv
RT: 4.880 min Scan# 184
Delta R.T. 0.008 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm

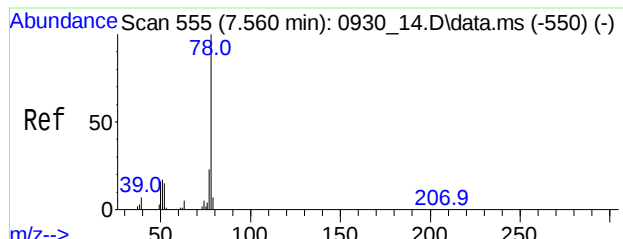
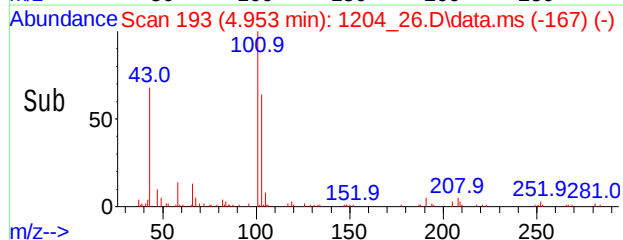
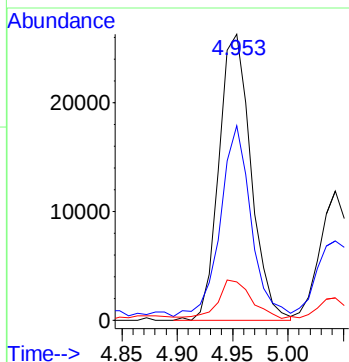
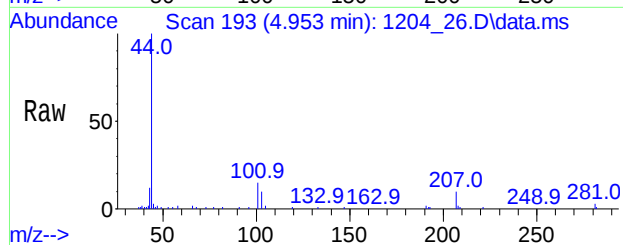
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	891262		
58	19.9	18.2	27.2	





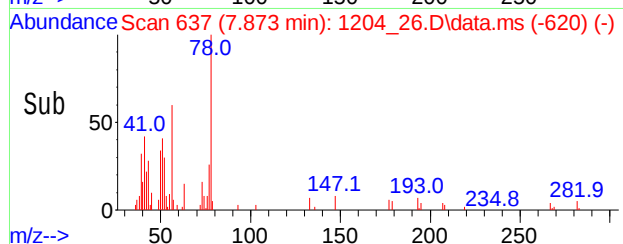
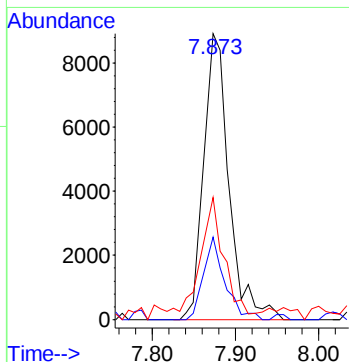
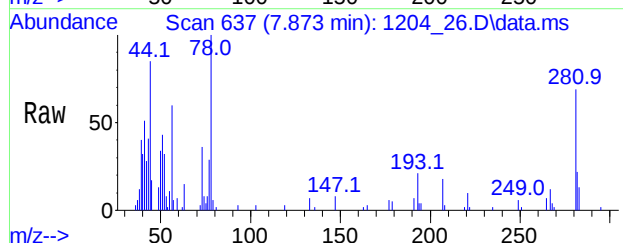
#5
 Trichlorofluoromethane
 Conc: 8\$ 0.253 ppbv
 RT: 4.953 min Scan# 193
 Delta R.T. 0.008 min
 Lab File: 1204_26.D
 Acq: 04 Dec 2019 04:14 pm

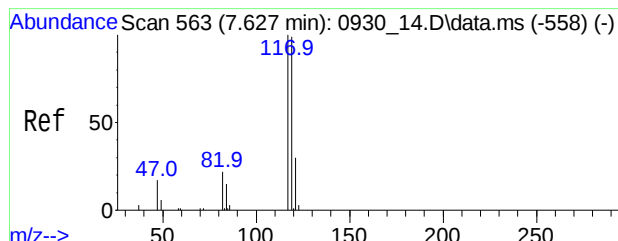
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	52105		
103	63.5	50.6	76.0	
66	15.2	9.1	13.7	



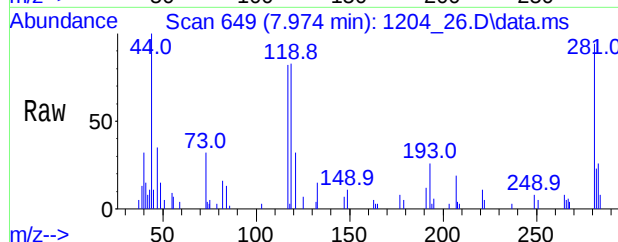
#13
 Benzene
 Conc: 8\$ 0.126 ppbv
 RT: 7.873 min Scan# 637
 Delta R.T. -0.000 min
 Lab File: 1204_26.D
 Acq: 04 Dec 2019 04:14 pm

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	15928		
77	24.1	19.5	29.3	
51	35.3	20.6	30.8	

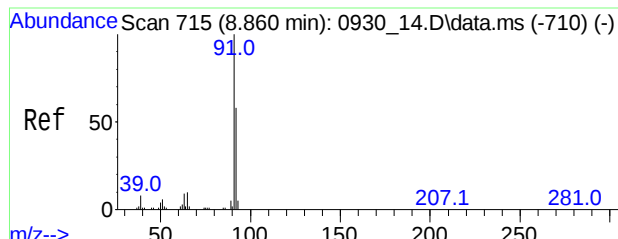
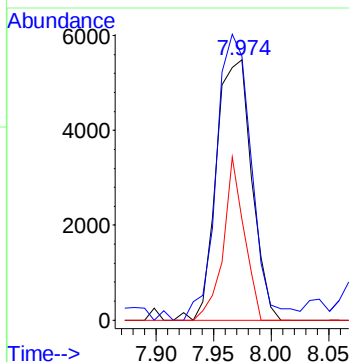
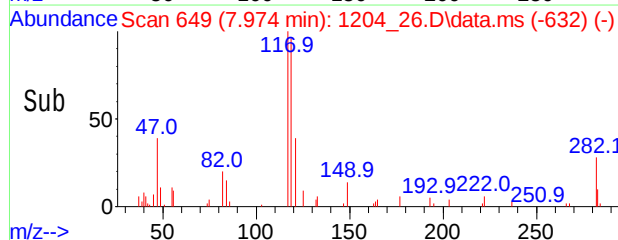




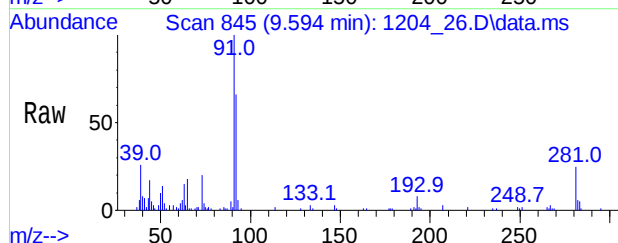
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.974 min Scan# 649
Delta R.T. 0.008 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm



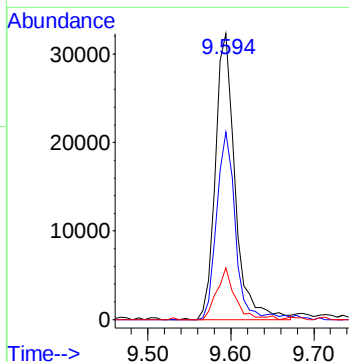
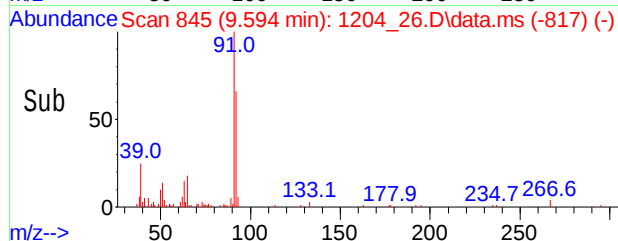
Tgt Ion: 117 Resp: 11722
Ion Ratio Lower Upper
117 100
119 109.1 74.7 114.7
121 36.8 9.7 49.7

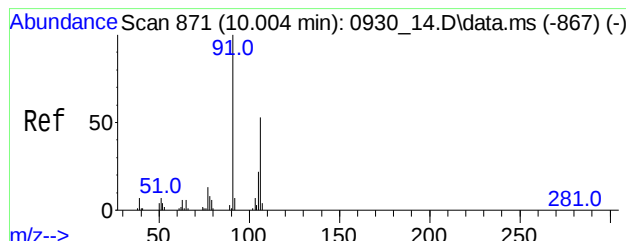


#18
Toluene
Conc: 8\$ 0.335 ppbv
RT: 9.594 min Scan# 845
Delta R.T. -0.000 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm



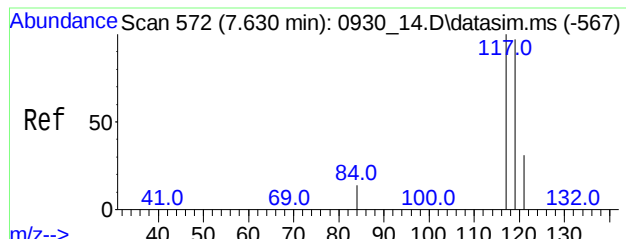
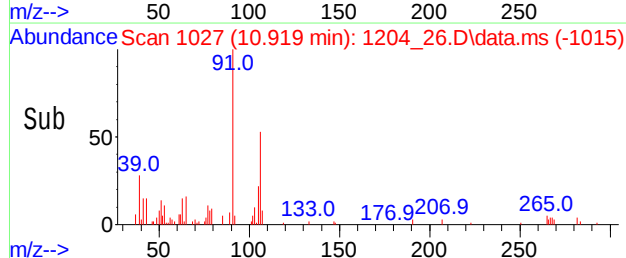
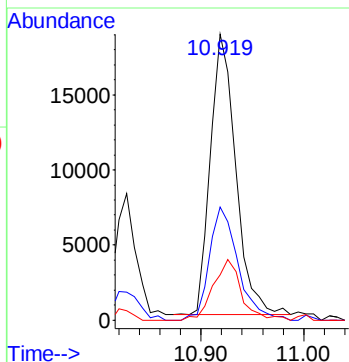
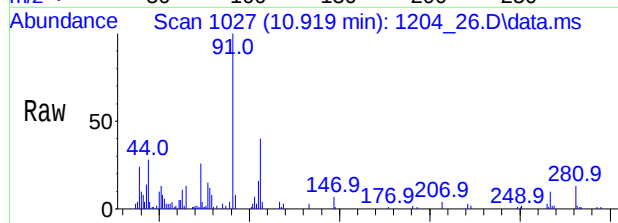
Tgt Ion: 91 Resp: 52812
Ion Ratio Lower Upper
91 100
92 63.2 48.8 73.2
65 16.7 11.6 17.4





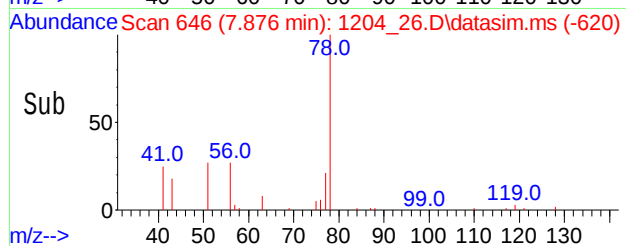
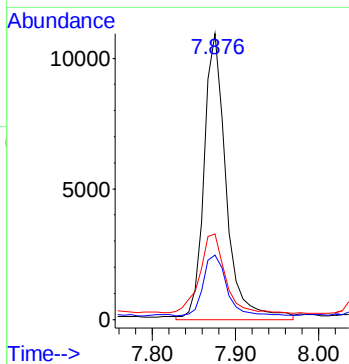
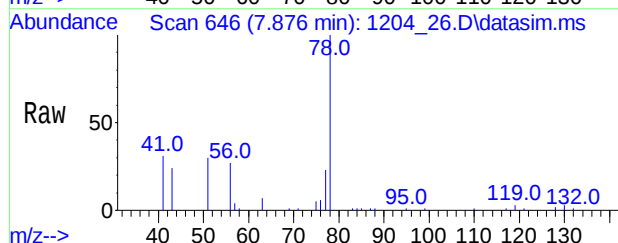
#23
m,p-Xylene
Conc: 8\$ 0.191 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. -0.008 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm

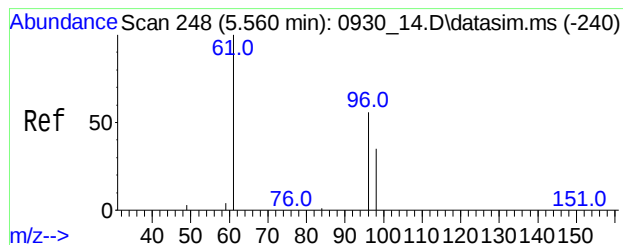
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	32101		
106	45.3	37.5	56.3	
105	23.7	16.1	24.1	



#35
Benzene(sim)
Conc: 8\$ 0.122 ug/l
RT: 7.873 min Scan# 646
Delta R.T. -0.000 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm

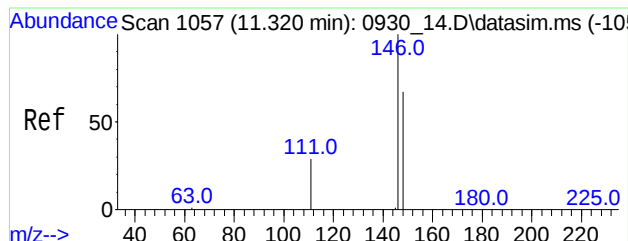
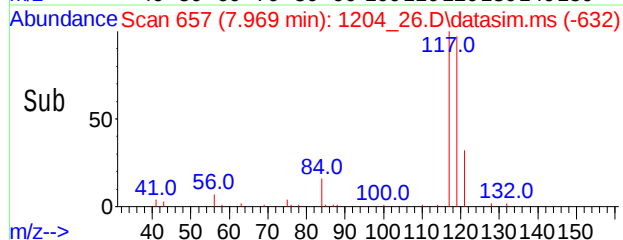
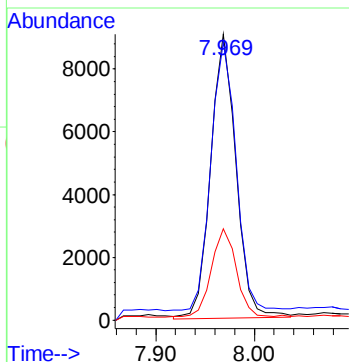
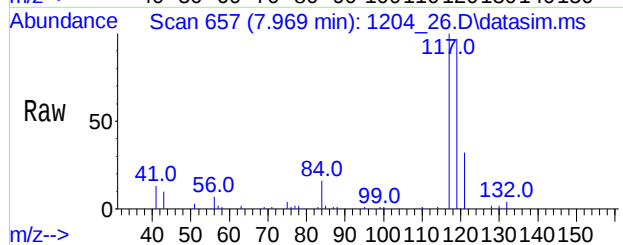
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	15928		
77	24.1	19.5	29.3	
51	37.6	20.6	30.8#	





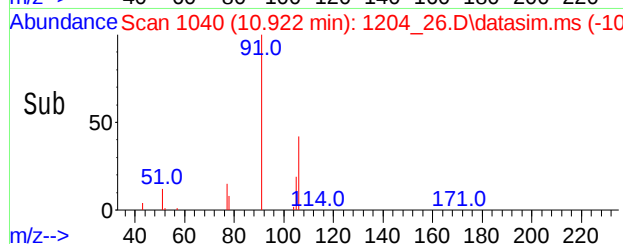
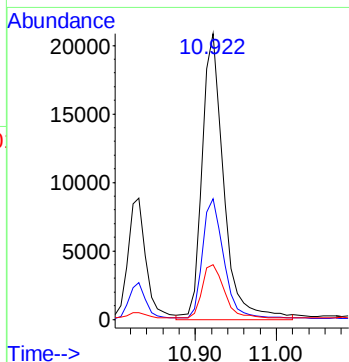
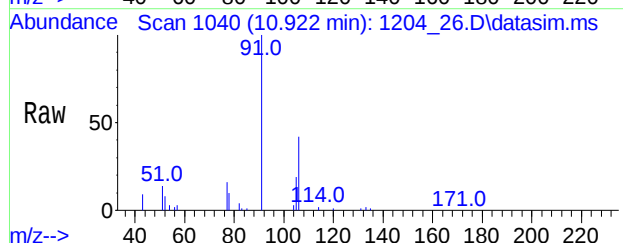
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.073 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	15927		
119	96.7	76.7	115.1	
121	31.6	24.5	36.7	



#49
m,p-Xylene(sim)
Conc: 8\$ 0.179 ppbv
RT: 10.919 min Scan# 1040
Delta R.T. -0.008 min
Lab File: 1204_26.D
Acq: 04 Dec 2019 04:14 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	35226		
106	41.3	42.3	51.7#	
105	21.6	16.0	24.0	



Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_11.D
 Acq On : 9 Dec 2019 10:34 am
 Operator : Keith
 Sample : 70612 322cc
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

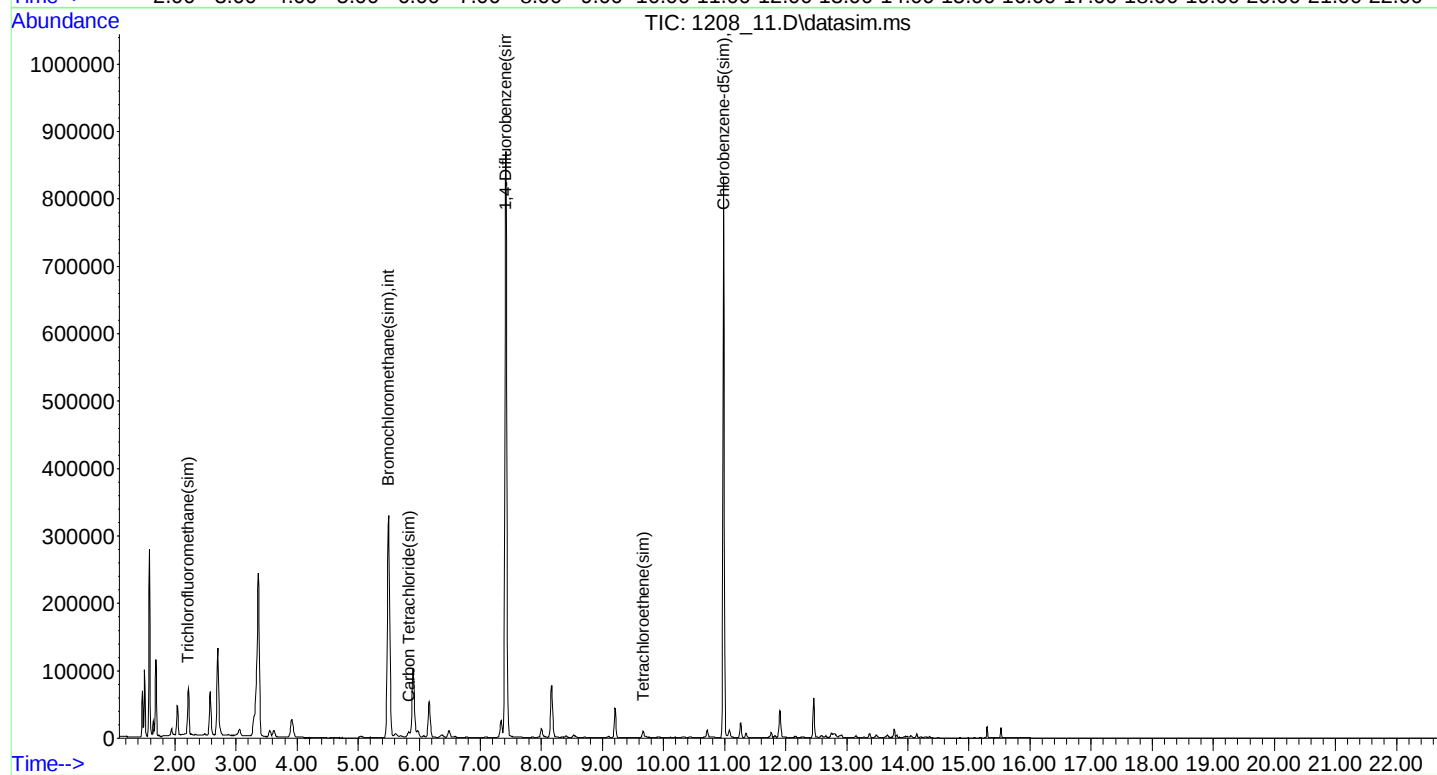
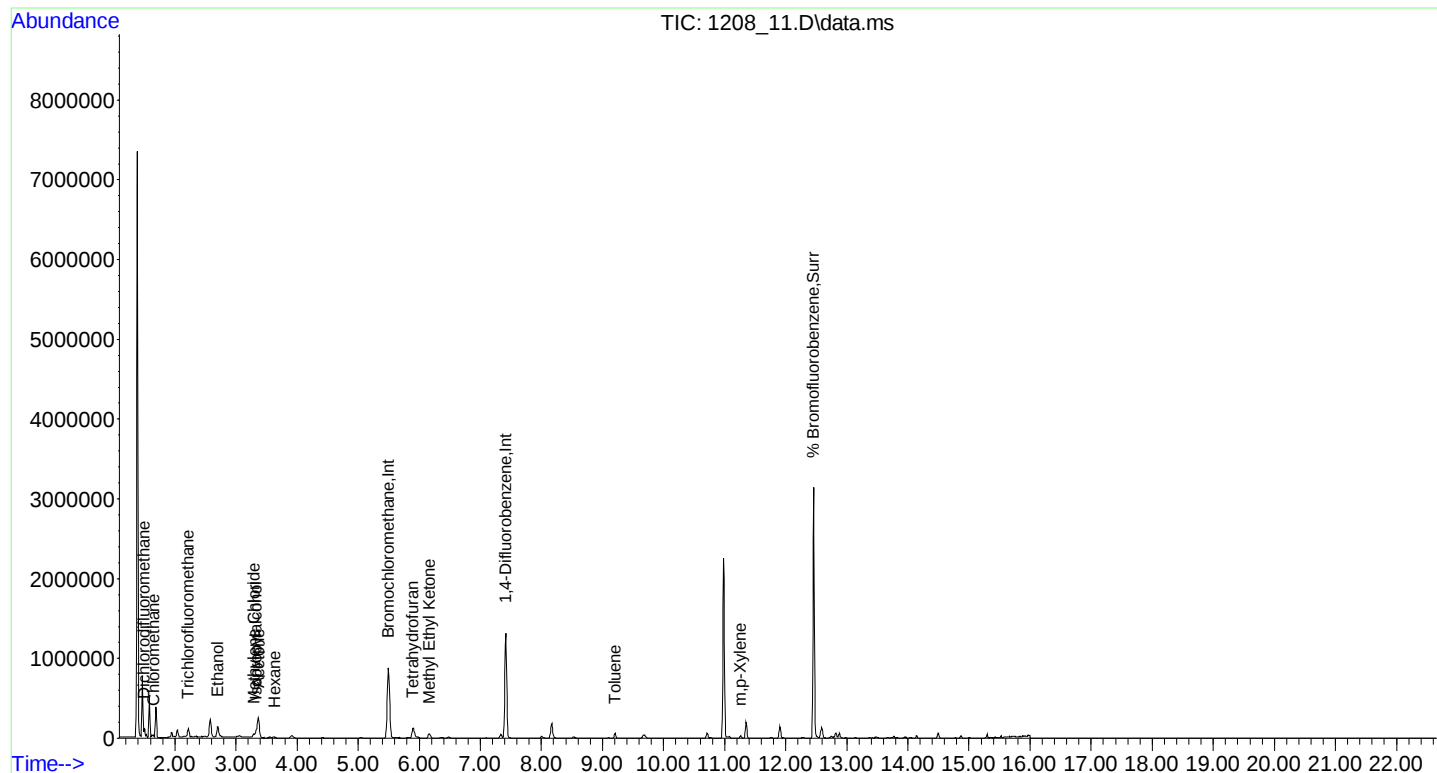
Quant Time: Dec 09 13:06:45 2019
 Quant Title :
 QLast Update : Wed Dec 11 09:11:44 2019
 Response via : Initial Calibration

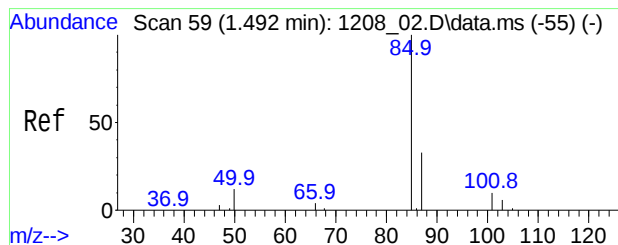
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.497	130	456655	10.000	ng	0.02
36) 1,4-Difluorobenzene	7.415	114	1216323	10.000	ng	0.01
53) Chlorobenzene-d5	10.981	82	650656	10.000	ng	0.01
80) Bromochloromethane(sim)	5.499	130	466970	10.000	ng	# 0.02
94) 1,4-Difluorobenzene(sim)	7.418	114	1331777	10.000	ng	# 0.02
104) Chlorobenzene-d5(sim)	10.984	82	705958	10.000	ng	0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.458	95	904222	9.029	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.30%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.499	101	6091	0.301	ppbv	95
4) Chloromethane	1.650	50	20934	0.539	ppbv	99
10) Ethanol	2.697	45	150307	12.348	ppbv#	61
12) Acetone	3.368	43	370525	5.140	ppbv#	91
13) Trichlorofluoromethane	2.218	101	35337	0.207	ppbv#	82
14) Isopropylalcohol	3.334	45	116623	1.680	ppbv#	1
17) Methylene Chloride	3.292	49	18727	0.360	ppbv#	75
25) Methyl Ethyl Ketone	6.167	43	90574	1.206	ppbv#	47
27) Hexane	3.628	57	7653	0.153	ppbv#	79
30) Tetrahydrofuran	5.900	42	87269	3.232	ppbv	100
48) Toluene	9.208	91	47681	0.379	ppbv	88
57) m, p-Xylene	11.262	91	19291	0.179	ppbv#	91
84) Trichlorofluoromethane...	2.214	101	36086	0.176	ppbv	93
86) Carbon Tetrachloride(sim)	5.831	117	9453	0.070	ppbv	100
103) Tetrachloroethene(sim)	9.662	166	4756	0.061	ppbv#	76

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\12DEC\08\
Data File : 1208_11.D
Acq On : 9 Dec 2019 10:34 am
Operator : Keith
Sample : 70612 322cc
Misc :
ALS Vial : 12 Sample Multiplier: 1

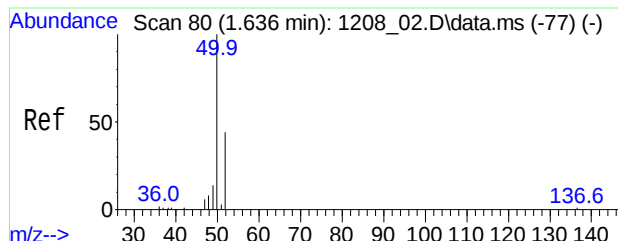
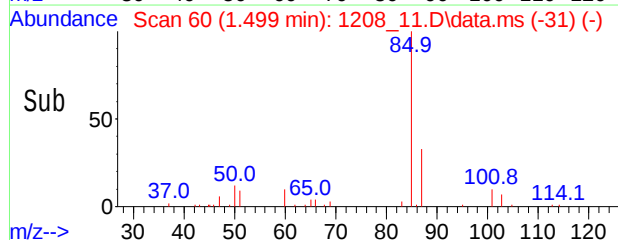
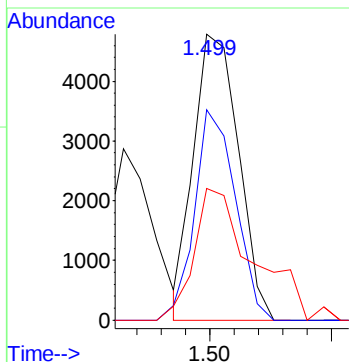
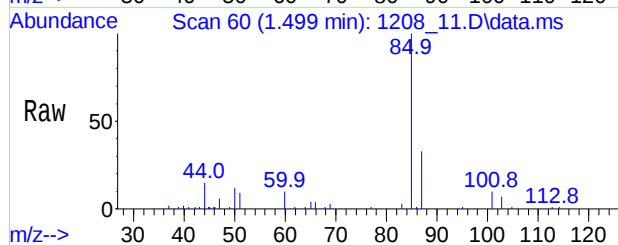
Quant Time: Dec 09 13:06:45 2019
Quant Title :
Last Update : Wed Dec 11 09:11:44 2019
Response via : Initial Calibration





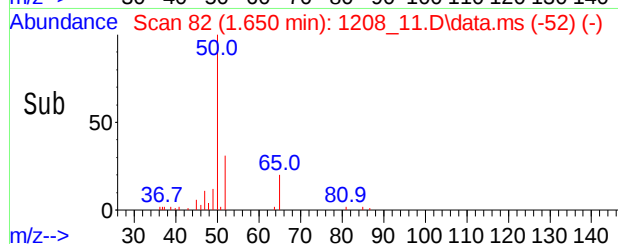
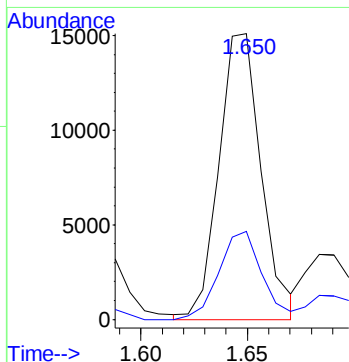
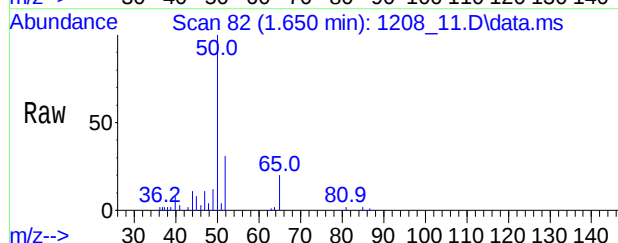
#3
Dichlorodifluoromethane
Conc: 8\$ 0.301 ppbv
RT: 1.499 min Scan# 60
Delta R.T. -0.000 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

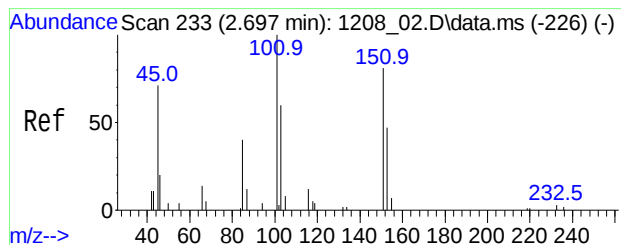
Tgt Ion: 101 Resp: 6091
Ion Ratio Lower Upper
101 100
103 66.9 55.7 83.5
66 61.6 45.1 67.7



#4
Chloromethane
Conc: 8\$ 0.539 ppbv
RT: 1.650 min Scan# 82
Delta R.T. 0.007 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

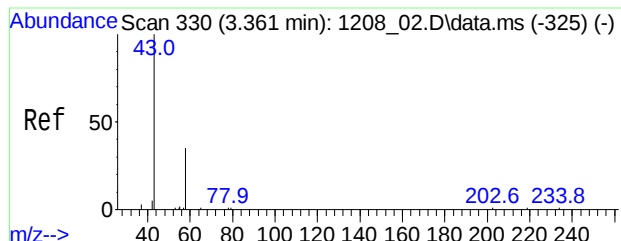
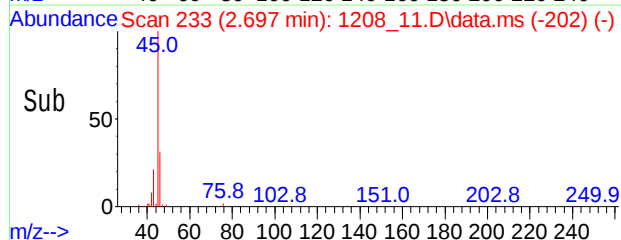
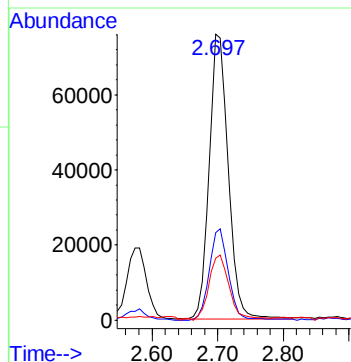
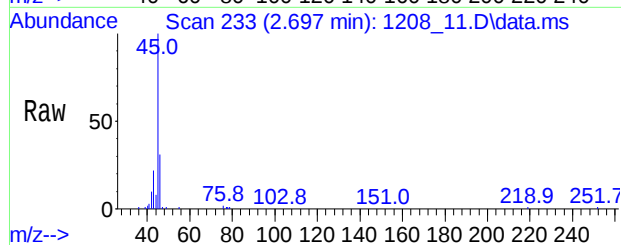
Tgt Ion: 50 Resp: 20934
Ion Ratio Lower Upper
50 100
52 31.4 11.1 51.1





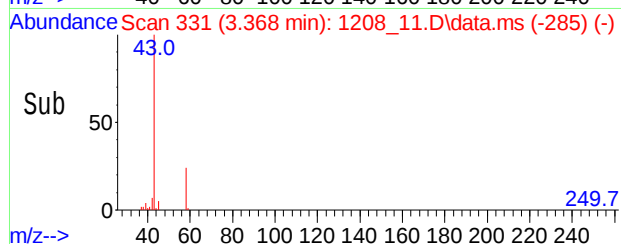
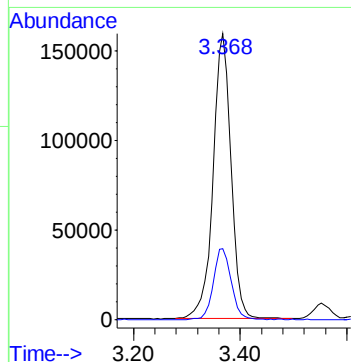
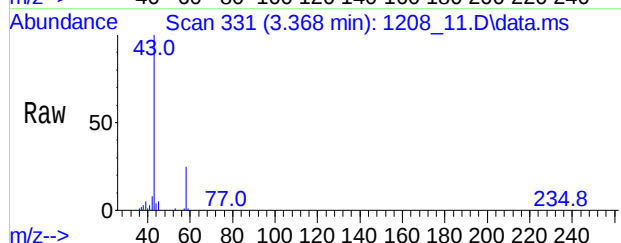
#10
Ethanol
Conc: 8\$ 12.348 ppbv
RT: 2.697 min Scan# 233
Delta R.T. 0.013 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

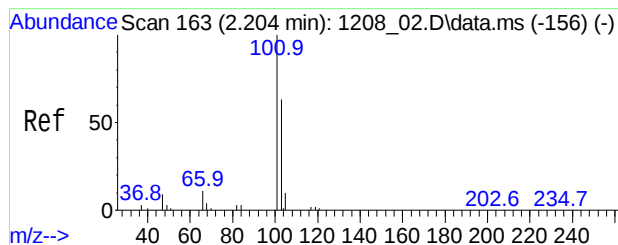
Tgt Ion: 45 Resp: 150307
Ion Ratio Lower Upper
45 100
46 32.1 5.9 8.9#
43 22.5 35.8 53.8#



#12
Acetone
Conc: 8\$ 5.140 ppbv
RT: 3.368 min Scan# 331
Delta R.T. 0.014 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

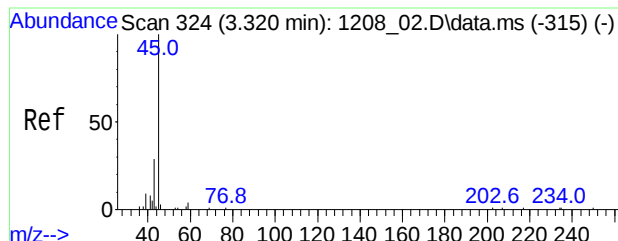
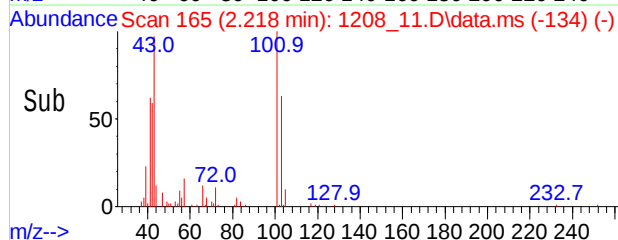
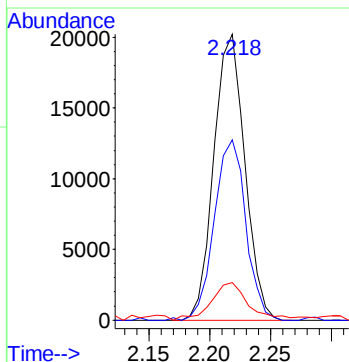
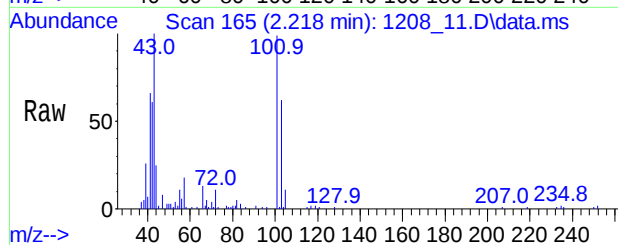
Tgt Ion: 43 Resp: 370525
Ion Ratio Lower Upper
43 100
58 24.5 16.3 24.5#





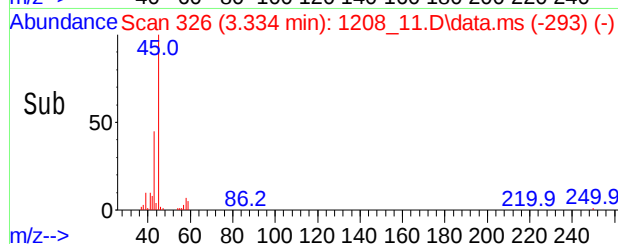
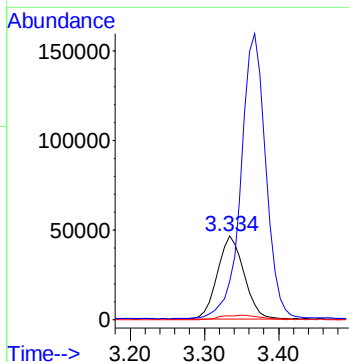
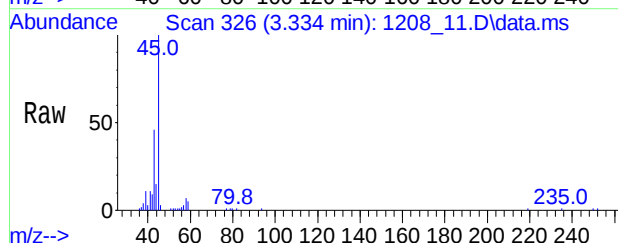
#13
Trichlorofluoromethane
Conc: 8\$ 0.207 ppbv
RT: 2.218 min Scan# 165
Delta R.T. 0.014 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

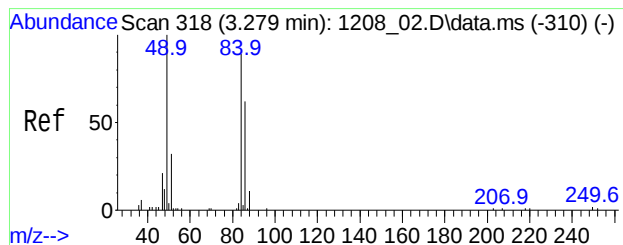
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	35337		
103	63.9	60.1	90.1	
66	15.7	25.4	38.0#	



#14
Isopropylalcohol
Conc: 8\$ 1.680 ppbv
RT: 3.334 min Scan# 326
Delta R.T. 0.028 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

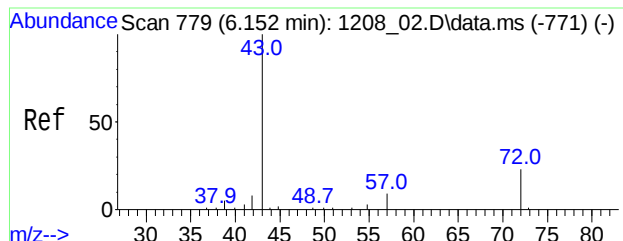
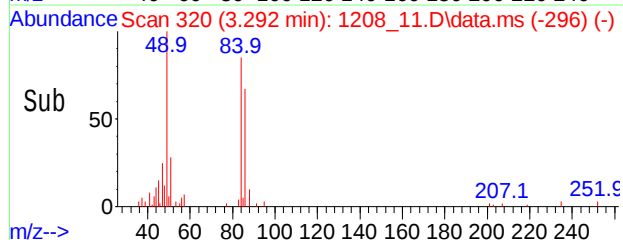
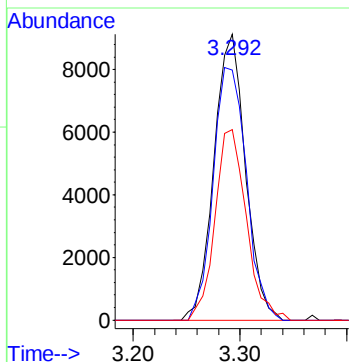
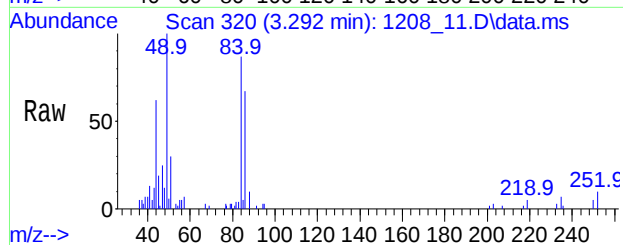
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	116623		
43	317.5	29.8	44.8#	
59	7.2	0.0	0.0#	





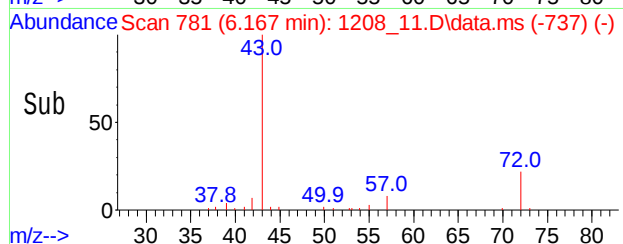
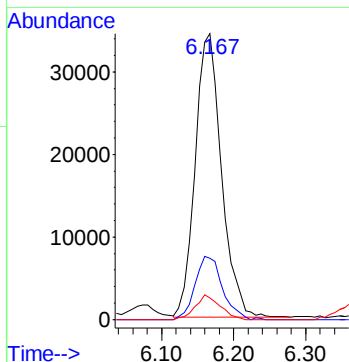
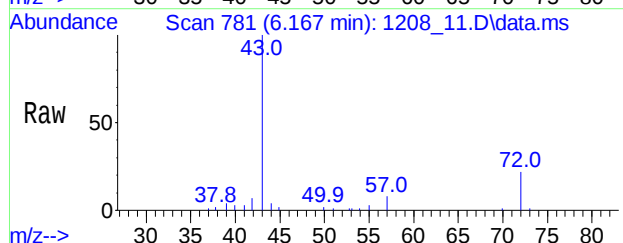
#17
Methylene Chloride
Conc: 8\$ 0.360 ppbv
RT: 3.292 min Scan# 320
Delta R.T. 0.013 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

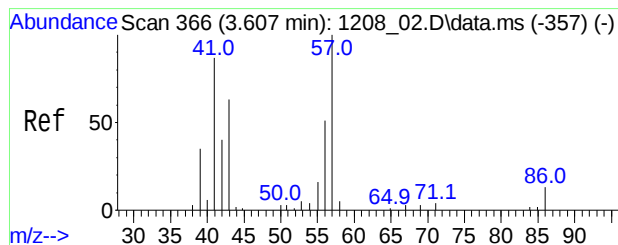
Tgt Ion: 49 Resp: 18727
Ion Ratio Lower Upper
49 100
84 93.1 60.3 90.5#
86 66.3 35.9 53.9#



#25
Methyl Ethyl Ketone
Conc: 8\$ 1.206 ppbv
RT: 6.167 min Scan# 781
Delta R.T. 0.015 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

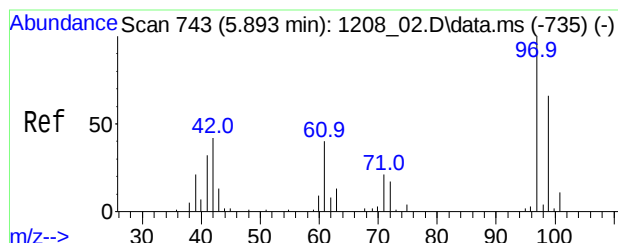
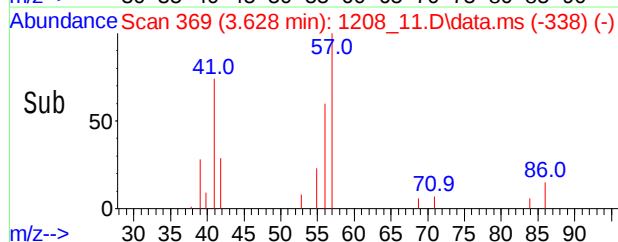
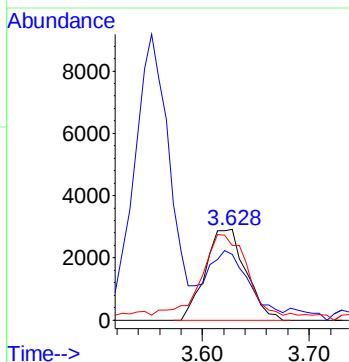
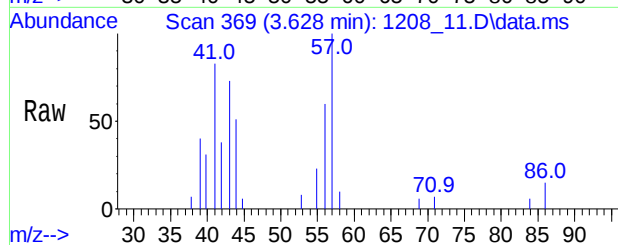
Tgt Ion: 43 Resp: 90574
Ion Ratio Lower Upper
43 100
72 24.3 5.0 7.4#
57 8.7 0.0 0.0#





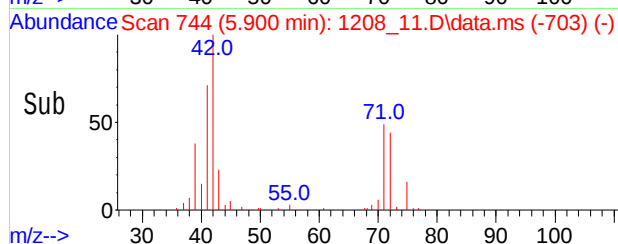
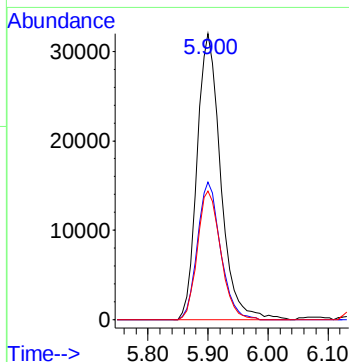
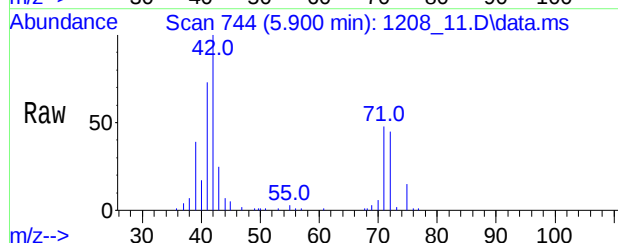
#27
Hexane
Conc: 8\$ 0.153 ppbv
RT: 3.628 min Scan# 369
Delta R.T. 0.014 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

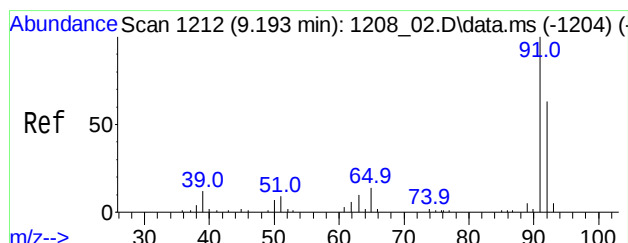
Tgt Ion: 57 Resp: 7653
Ion Ratio Lower Upper
57 100
43 64.1 44.1 66.1
41 116.7 118.4 177.6#



#30
Tetrahydrofuran
Conc: 8\$ 3.232 ppbv
RT: 5.900 min Scan# 744
Delta R.T. -0.007 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

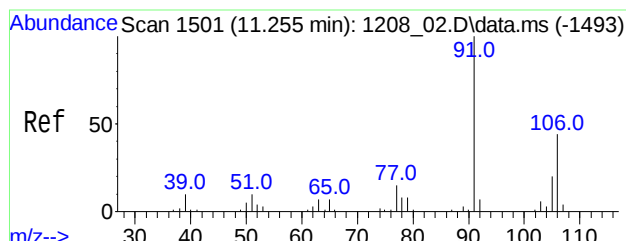
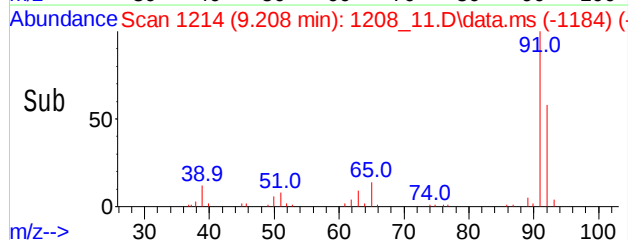
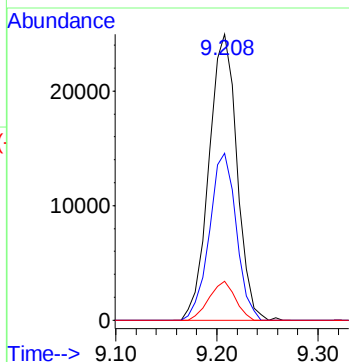
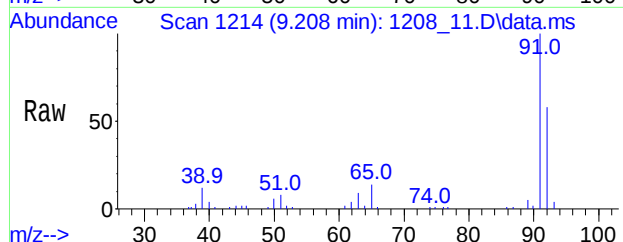
Tgt Ion: 42 Resp: 87269
Ion Ratio Lower Upper
42 100
71 47.0 0.0 0.0#
72 44.2 0.0 0.0#





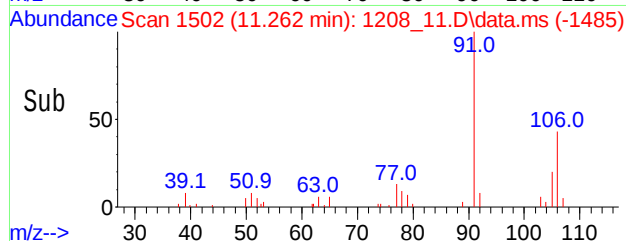
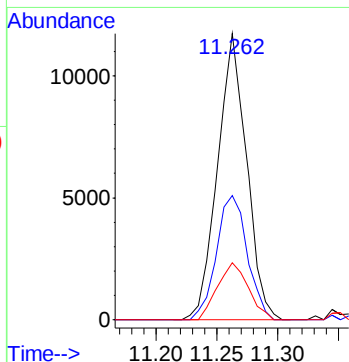
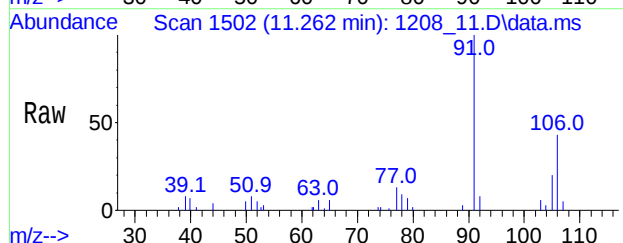
#48
Toluene
Conc: 8\$ 0.379 ppbv
RT: 9.208 min Scan# 1214
Delta R.T. 0.015 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

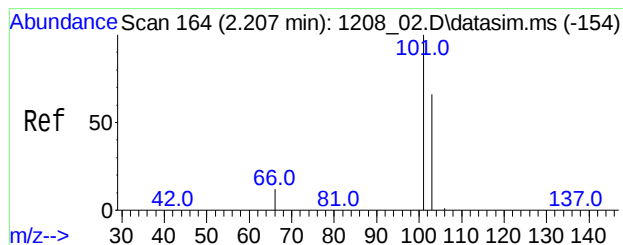
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	47681		
92	56.1	52.6	79.0	
65	12.6	0.0	0.0#	



#57
m,p-Xylene
Conc: 8\$ 0.179 ppbv
RT: 11.262 min Scan# 1502
Delta R.T. 0.014 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

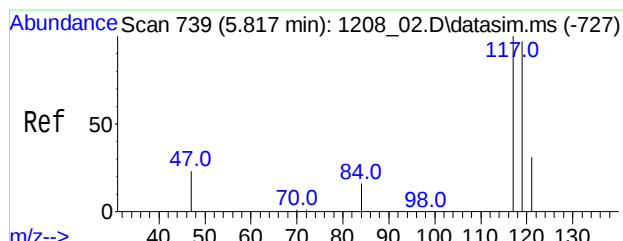
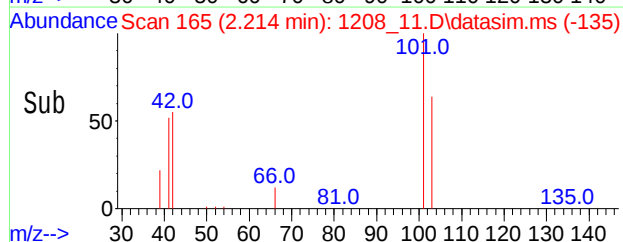
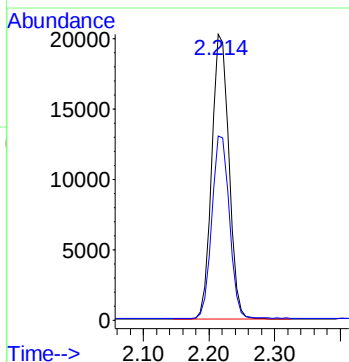
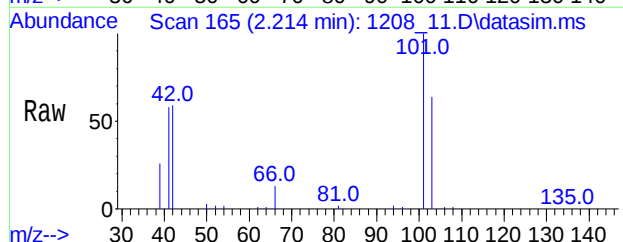
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	19291		
106	46.0	33.8	50.8	
105	21.0	10.8	16.2#	





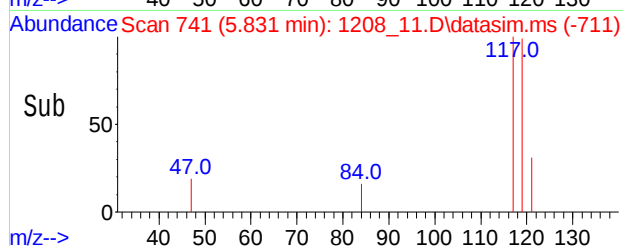
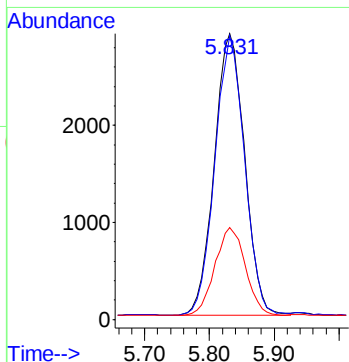
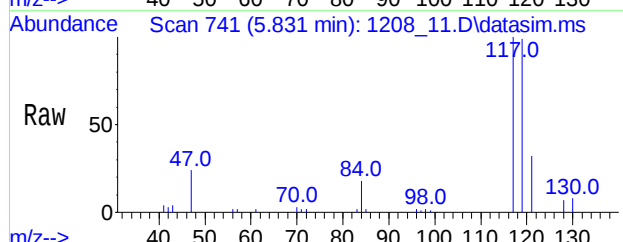
#84
Trichlorofluoromethane(sim)
Conc: 8\$ 0.176 ppbv
RT: 2.214 min Scan# 165
Delta R.T. 0.007 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

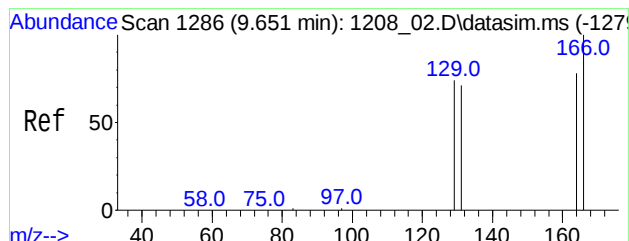
Tgt Ion: 101 Resp: 36086
Ion Ratio Lower Upper
101 100
103 64.9 56.4 84.6



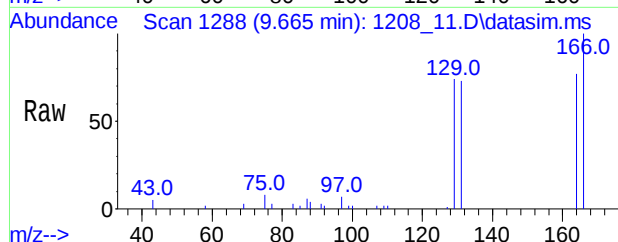
#86
Carbon Tetrachloride(sim)
Conc: 8\$ 0.070 ppbv
RT: 5.831 min Scan# 741
Delta R.T. 0.015 min
Lab File: 1208_11.D
Acq: 9 Dec 2019 10:34 am

Tgt Ion: 117 Resp: 9453
Ion Ratio Lower Upper
117 100
119 97.0 77.4 116.0
121 31.5 25.4 38.2

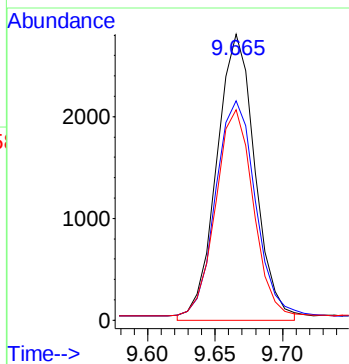
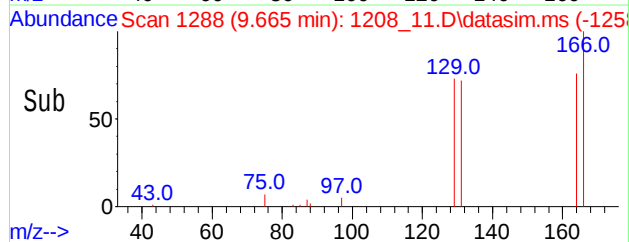




#103
 Tetrachloroethene(sim)
 Conc: 8\$ 0.061 ppbv
 RT: 9.662 min Scan# 1288
 Delta R.T. 0.014 min
 Lab File: 1208_11.D
 Acq: 9 Dec 2019 10:34 am



Tgt Ion: 166 Resp: 4756
 Ion Ratio Lower Upper
 166 100
 164 88.2 31.9 71.9#
 129 72.9 58.6 98.6



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_28.D
 Acq On : 04 Dec 2019 05:49 pm
 Operator : CORTEX\ms
 Client ID : IA-7
 Lab ID : CE70613
 ALS Vial : 1 Sample Multiplier: 1

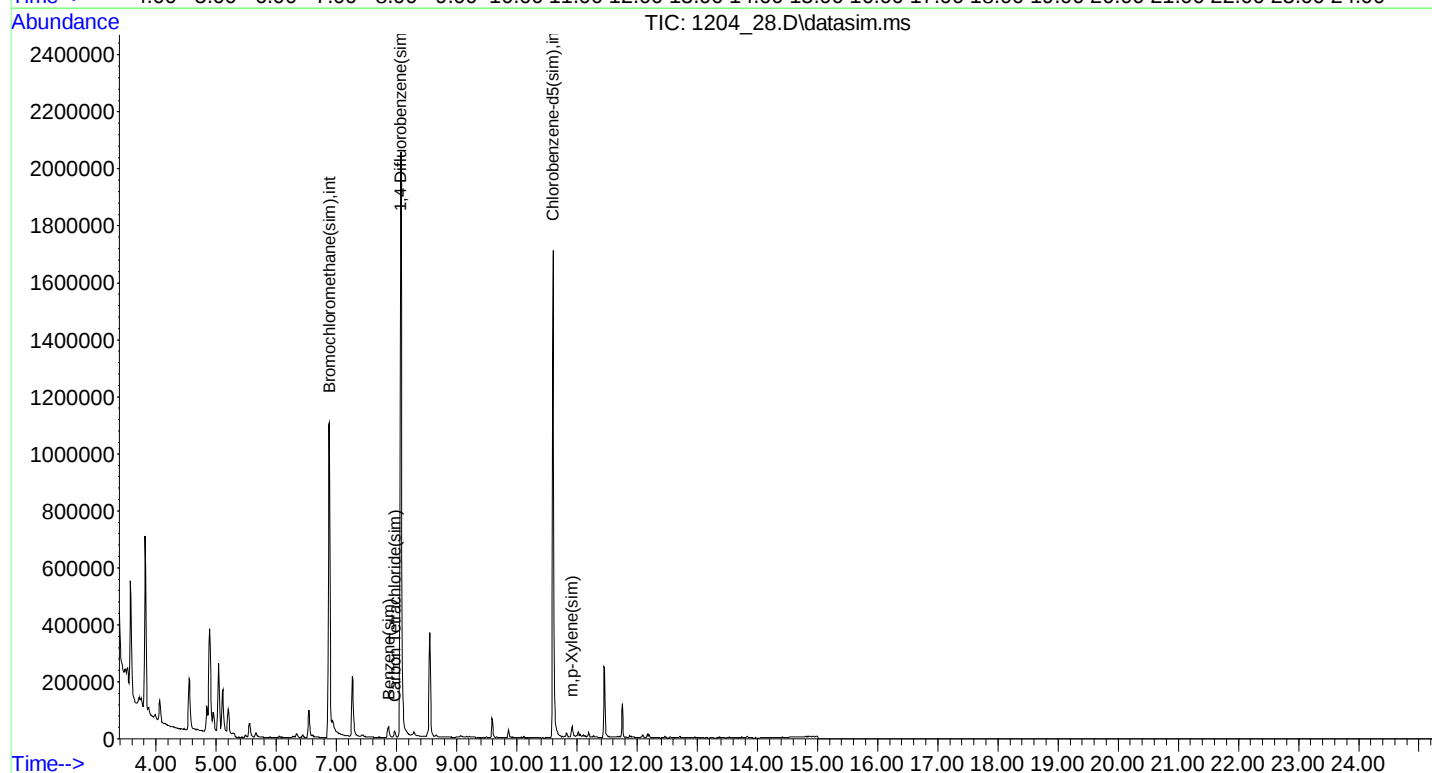
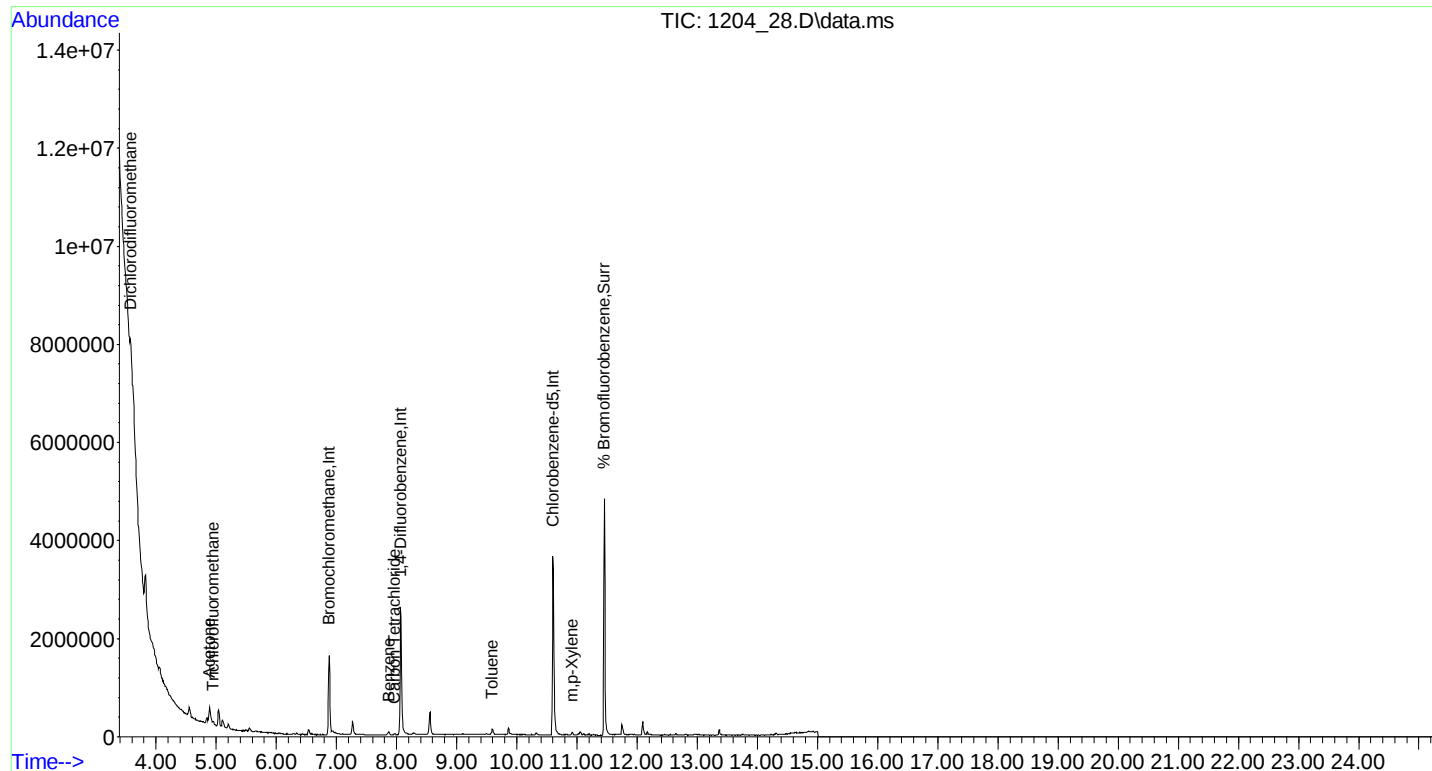
Quant Time: Dec 05 09:16:11 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

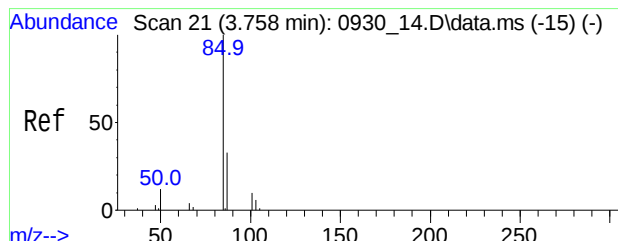
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	417013	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1639295	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	939432	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	550921	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	1932905	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1002100	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1232578	9.575	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.70%
Target Compounds						
2) Dichlorodifluoromethane	3.574	85	109419	0.491	ppbv#	95
4) Acetone	4.889	43	603317	6.771	ppbv	92
5) Trichlorofluoromethane	4.945	101	46575	0.232	ppbv#	92
13) Benzene	7.873	78	16652	0.135	ppbv#	86
14) Carbon Tetrachloride	7.966	117	12943	0.078	ppbv	90
18) Toluene	9.594	91	54496	0.352	ppbv	96
23) m,p-Xylene	10.919	91	31364	0.190	ppbv	94
35] Benzene(sim)	7.873	78	16652	0.132	ug/l#	86
36] Carbon Tetrachloride(sim)	7.969	117	15856	0.075	ppbv	100
49] m,p-Xylene(sim)	10.919	91	31364	0.162	ppbv	94

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_28.D
Acq On : 04 Dec 2019 05:49 pm
Operator : CORTEX\ms
Client ID : IA-7
Lab ID : CE70613
ALS Vial : 1 Sample Multiplier: 1

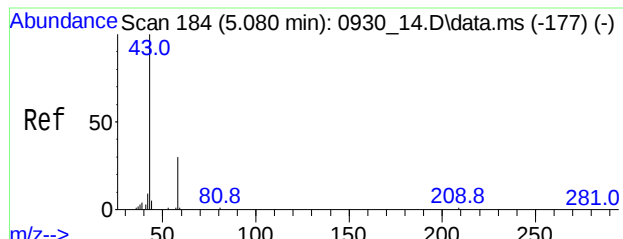
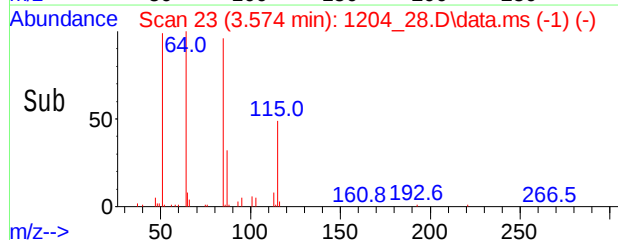
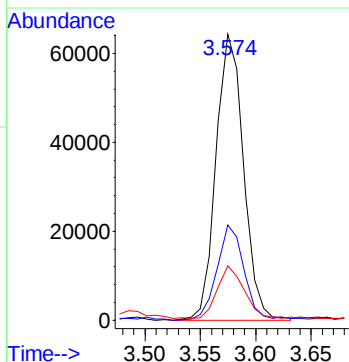
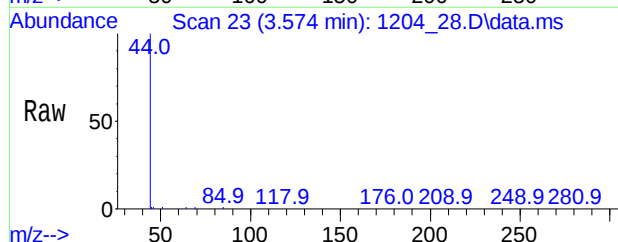
Quant Time: Dec 05 09:16:11 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:30:23 2019
Response via : Initial Calibration





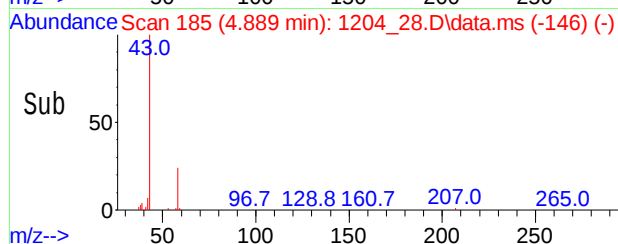
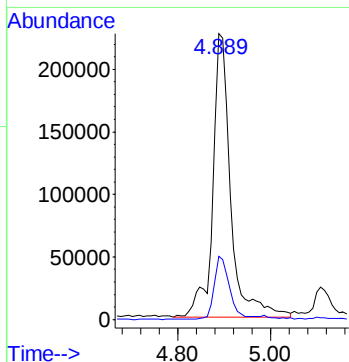
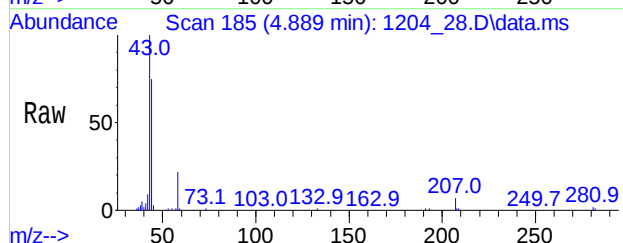
#2
Dichlorodifluoromethane
Conc: 8\$ 0.491 ppbv
RT: 3.574 min Scan# 23
Delta R.T. -0.000 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

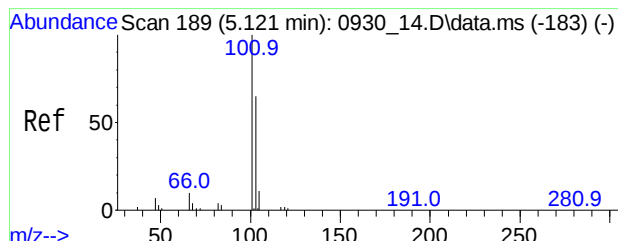
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	109419		
87	33.2	25.6	38.4	
50	18.3	10.6	15.8	



#4
Acetone
Conc: 8\$ 6.771 ppbv
RT: 4.889 min Scan# 185
Delta R.T. 0.016 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

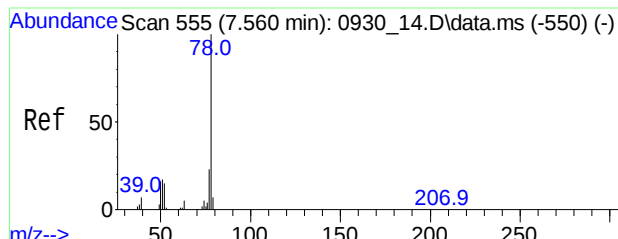
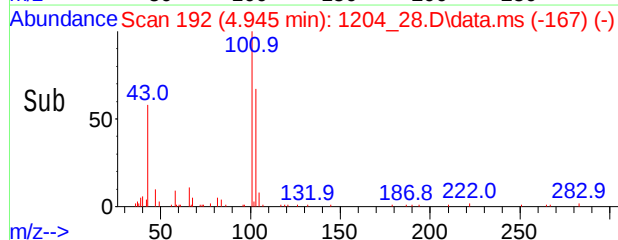
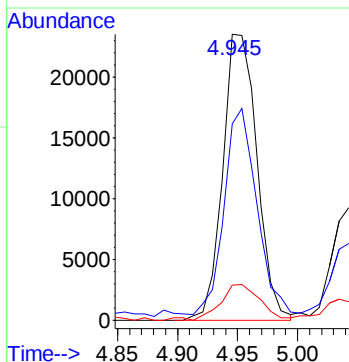
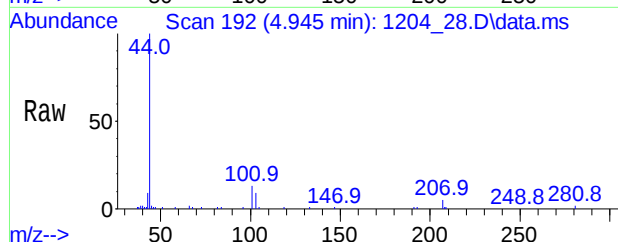
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	603317		
58	18.8	18.2	27.2	





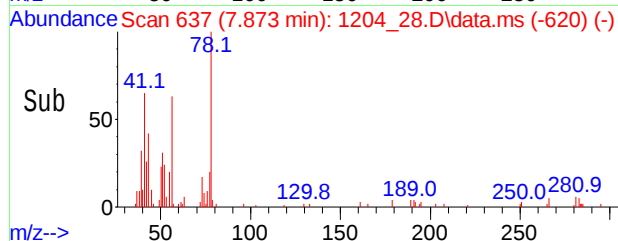
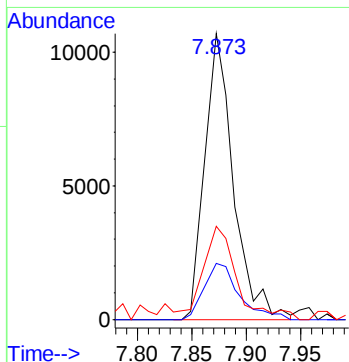
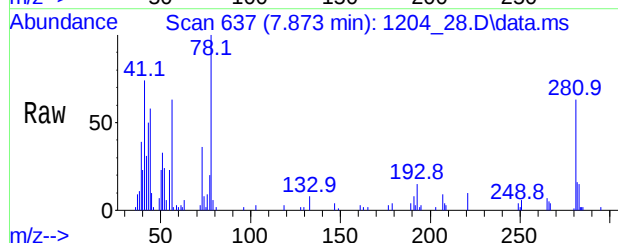
#5
 Trichlorofluoromethane
 Conc: 8\$ 0.232 ppbv
 RT: 4.945 min Scan# 192
 Delta R.T. -0.000 min
 Lab File: 1204_28.D
 Acq: 04 Dec 2019 05:49 pm

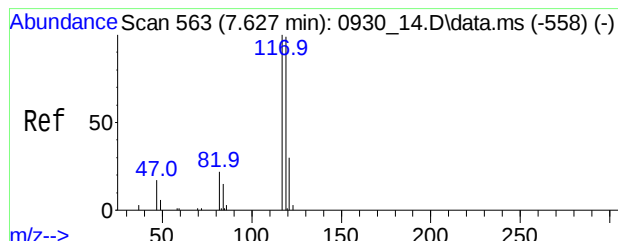
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	46575		
103	69.4	50.6	76.0	
66	14.5	9.1	13.7#	



#13
 Benzene
 Conc: 8\$ 0.135 ppbv
 RT: 7.873 min Scan# 637
 Delta R.T. -0.000 min
 Lab File: 1204_28.D
 Acq: 04 Dec 2019 05:49 pm

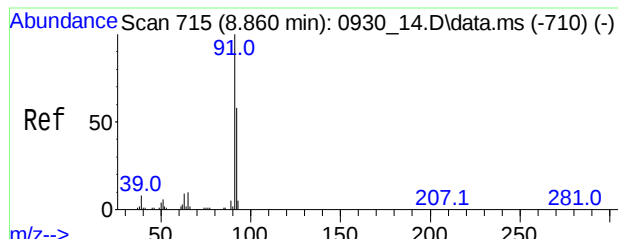
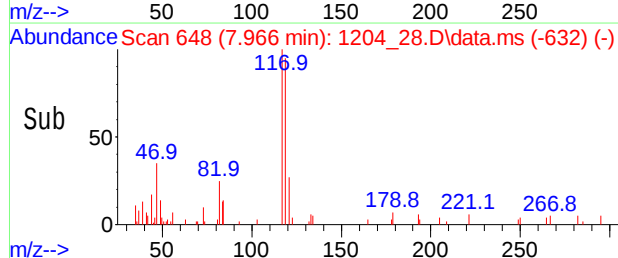
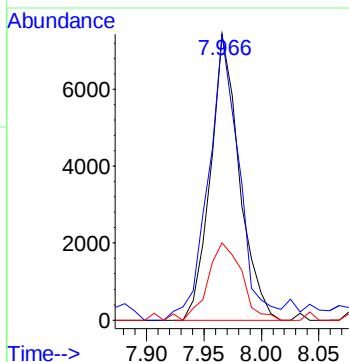
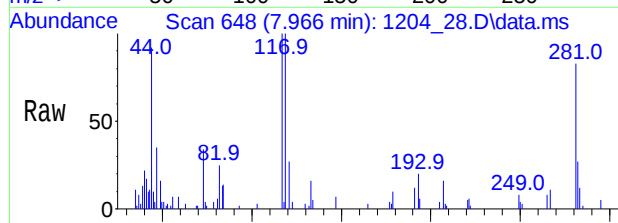
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	16652		
77	24.7	19.5	29.3	
51	39.0	20.6	30.8#	





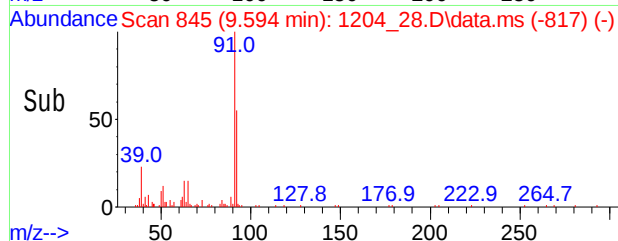
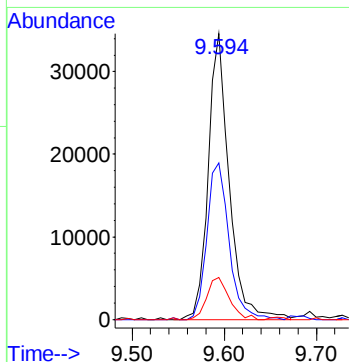
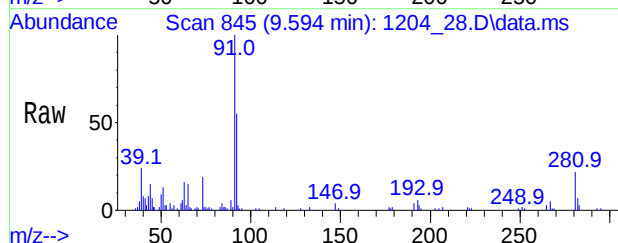
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.966 min Scan# 648
Delta R.T. -0.000 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

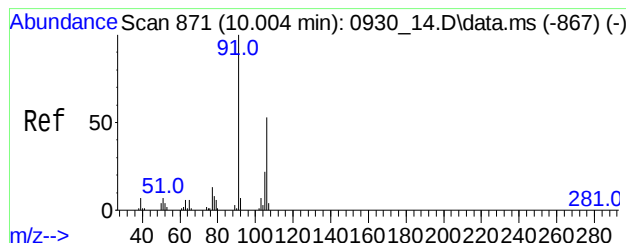
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	12943		
119	105.7	74.7	114.7	
121	31.9	9.7	49.7	



#18
Toluene
Conc: 8\$ 0.352 ppbv
RT: 9.594 min Scan# 845
Delta R.T. -0.000 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

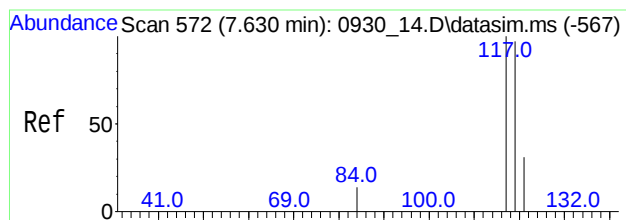
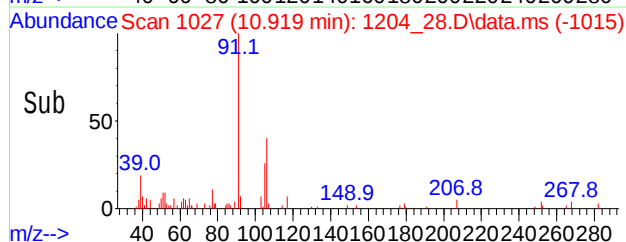
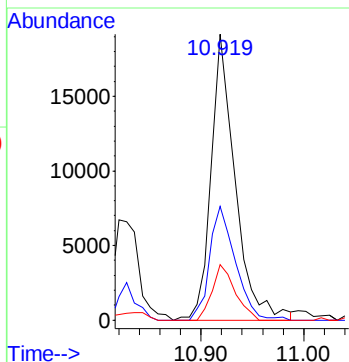
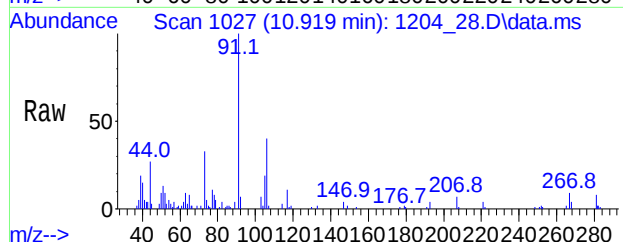
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	54496		
92	57.9	48.8	73.2	
65	15.8	11.6	17.4	





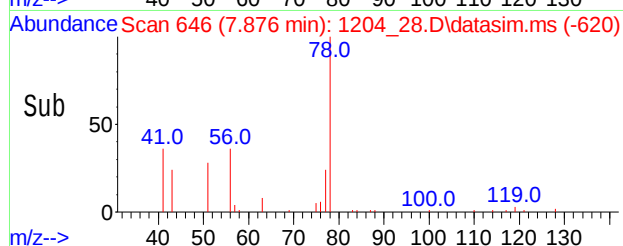
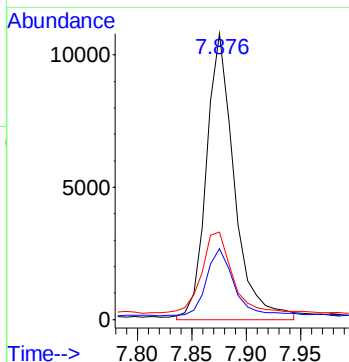
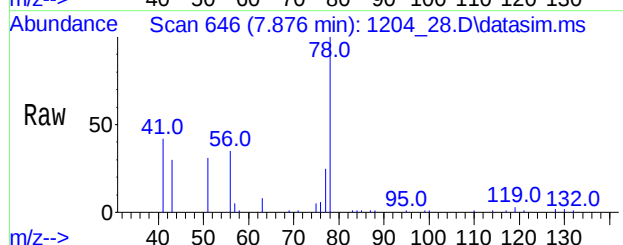
#23
m,p-Xylene
Conc: 8\$ 0.190 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. -0.008 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

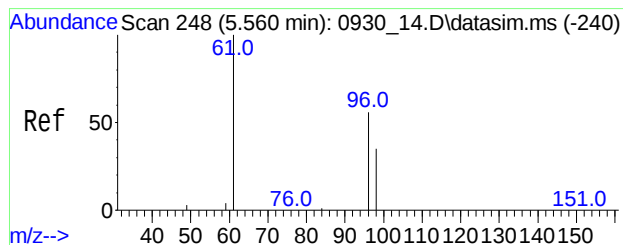
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	31364		
106	42.4	37.5	56.3	
105	18.5	16.1	24.1	



#35
Benzene(sim)
Conc: 8\$ 0.132 ug/l
RT: 7.873 min Scan# 646
Delta R.T. -0.000 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

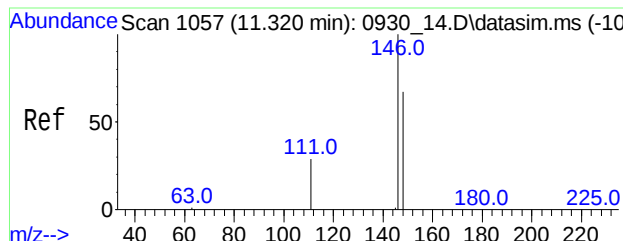
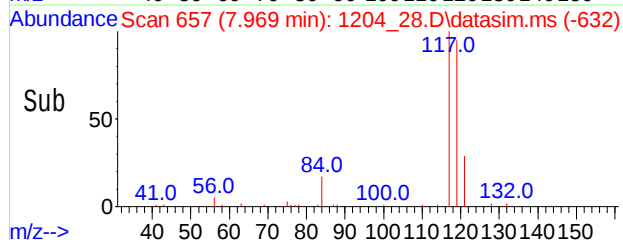
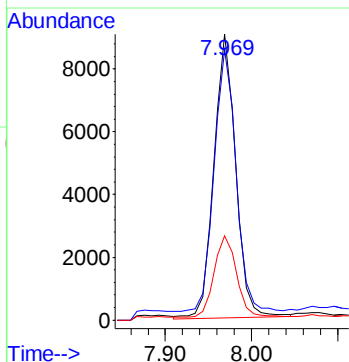
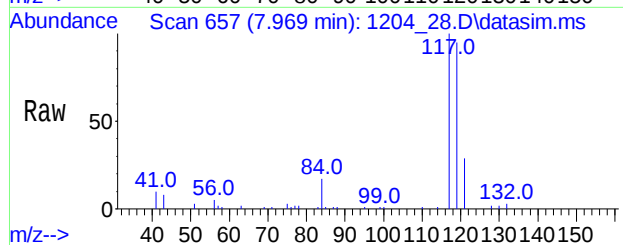
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	16652		
77	24.7	19.5	29.3	
51	39.0	20.6	30.8#	





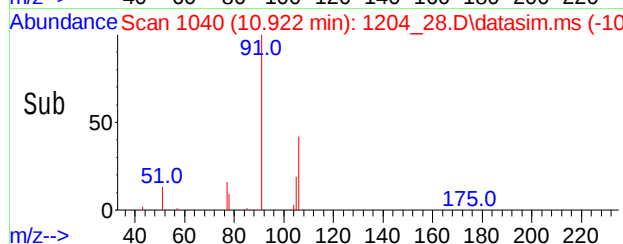
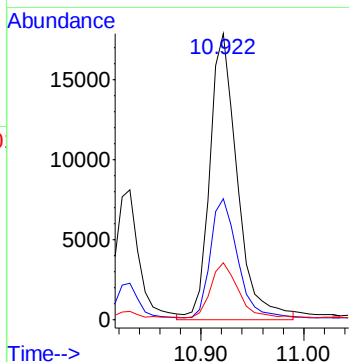
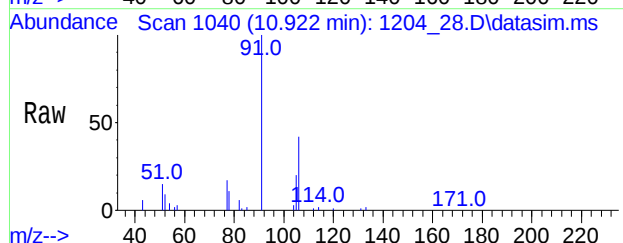
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.075 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	15856		
119	95.6	76.7	115.1	
121	31.0	24.5	36.7	



#49
m,p-Xylene(sim)
Conc: 8\$ 0.162 ppbv
RT: 10.919 min Scan# 1040
Delta R.T. -0.008 min
Lab File: 1204_28.D
Acq: 04 Dec 2019 05:49 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	31364		
106	42.4	42.3	51.7	
105	18.5	16.0	24.0	



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_29.D
 Acq On : 04 Dec 2019 06:29 pm
 Operator : CORTEX\ms
 Client ID : AMBIENT AIR
 Lab ID : CE70614
 ALS Vial : 1 Sample Multiplier: 1

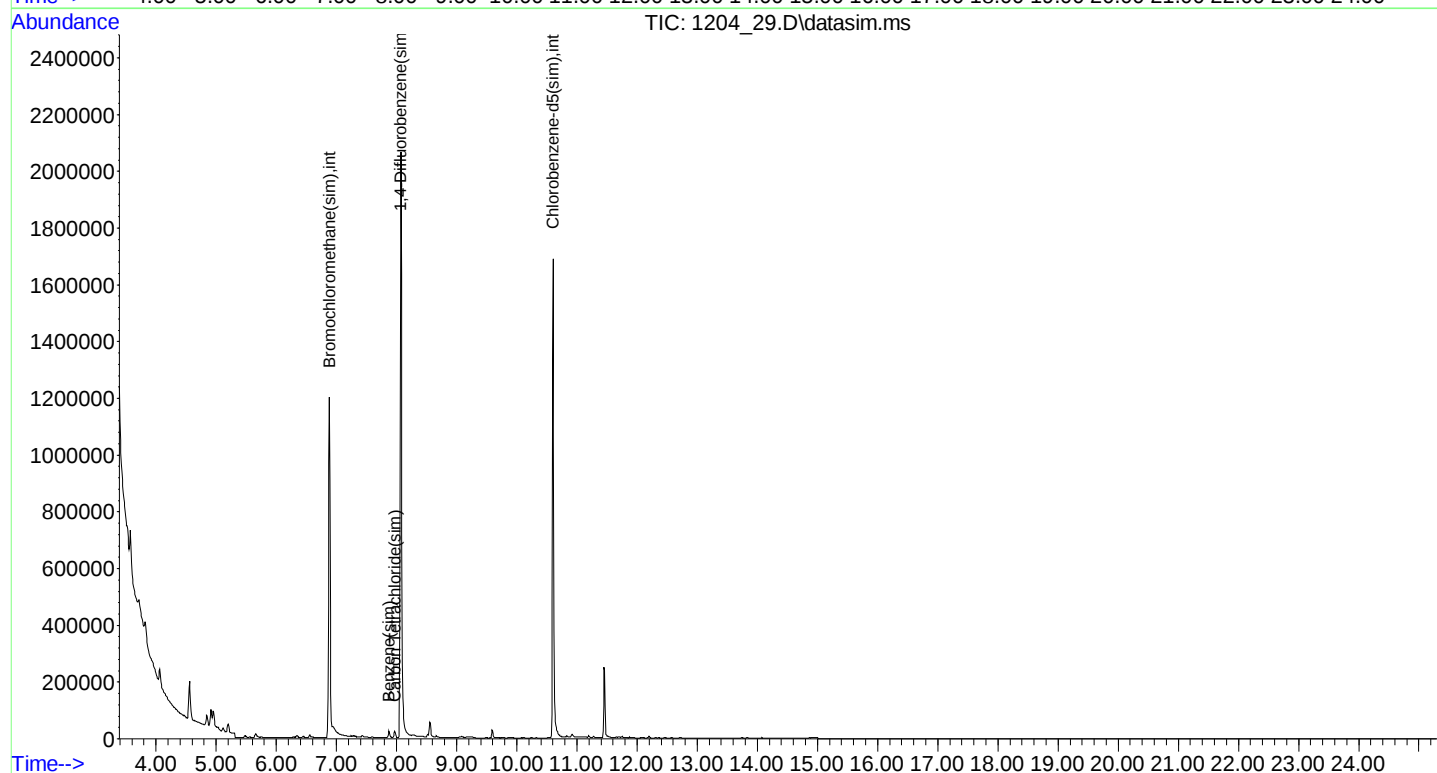
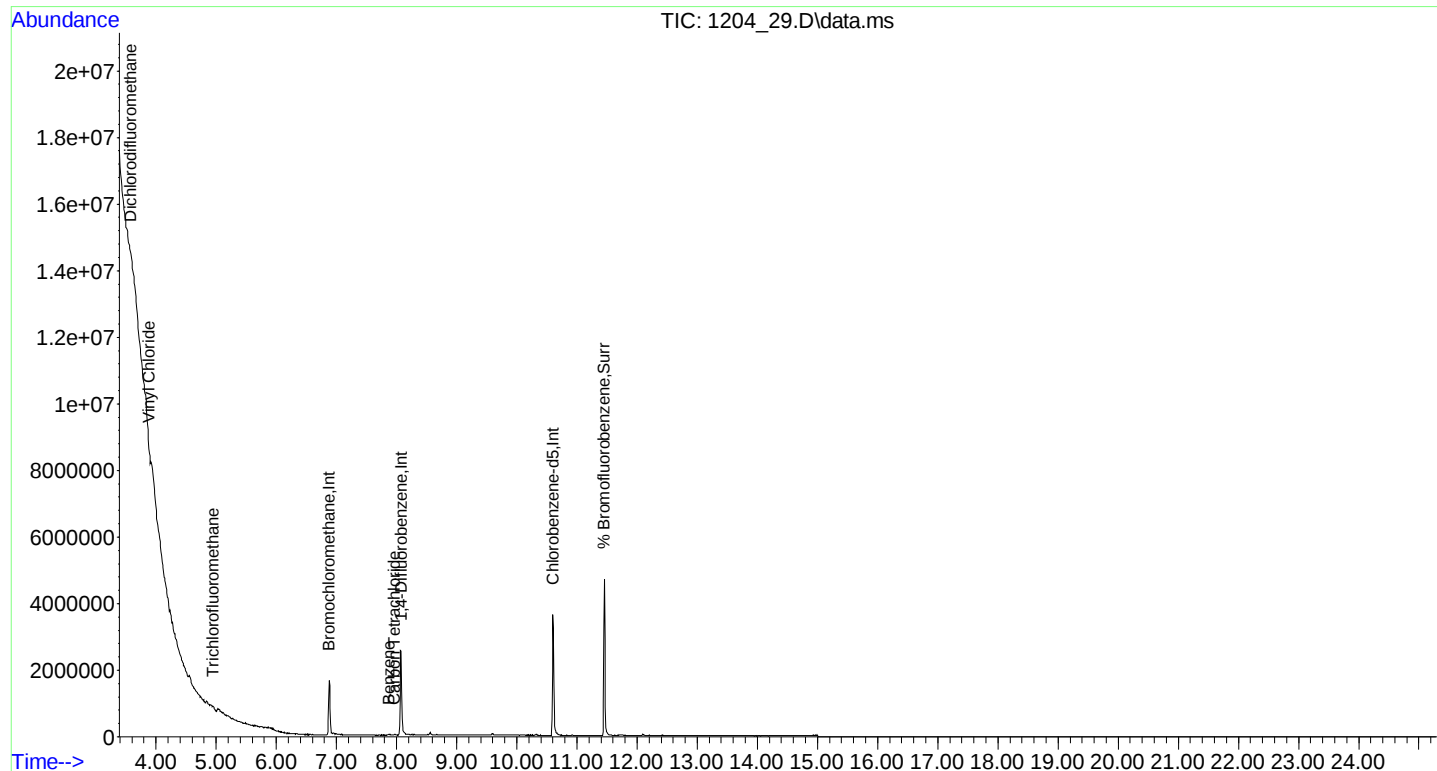
Quant Time: Dec 05 09:16:15 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

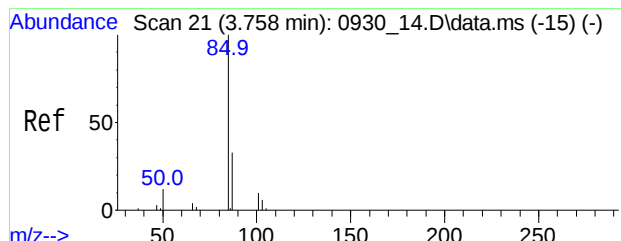
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	417438	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	1625288	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	921625	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	548146	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	1921816	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	990302	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1202153	9.519	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.20%
Target Compounds						
2) Dichlorodifluoromethane	3.575	85	98556	0.442	ppbv#	96
3) Vinyl Chloride	3.891	62	1063	0.020	ppbv	65
5) Trichlorofluoromethane	4.954	101	50594	0.252	ppbv#	97
13) Benzene	7.873	78	19272	0.156	ppbv#	86
14) Carbon Tetrachloride	7.966	117	12950	0.078	ppbv	91
35) Benzene(sim)	7.873	78	19165	0.152	ug/l#	85
36) Carbon Tetrachloride(sim)	7.969	117	15767	0.075	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_29.D
Acq On : 04 Dec 2019 06:29 pm
Operator : CORTEX\ms
Client ID : AMBIENT AIR
Lab ID : CE70614
ALS Vial : 1 Sample Multiplier: 1

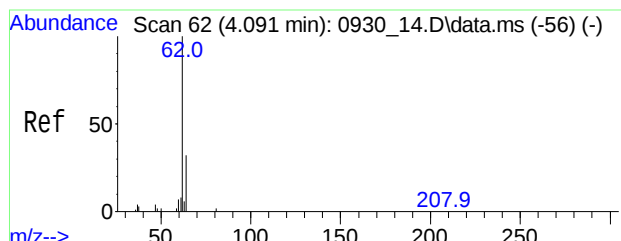
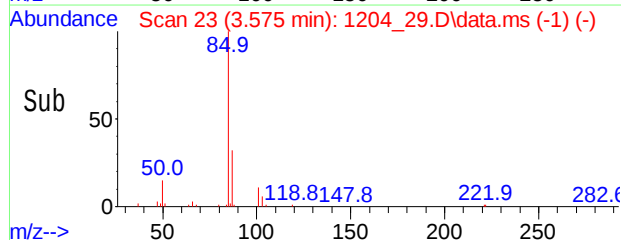
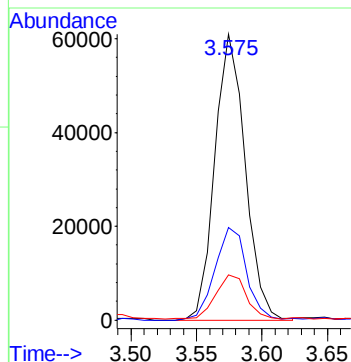
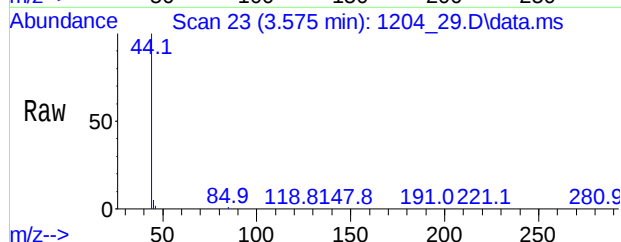
Quant Time: Dec 05 09:16:15 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:30:23 2019
Response via : Initial Calibration





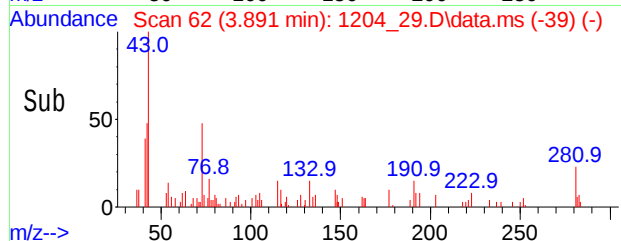
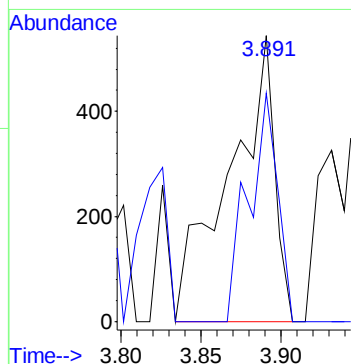
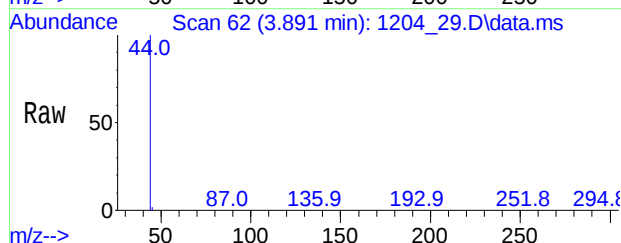
#2
Dichlorodifluoromethane
Conc: 8\$ 0.442 ppbv
RT: 3.575 min Scan# 23
Delta R.T. -0.000 min
Lab File: 1204_29.D
Acq: 04 Dec 2019 06:29 pm

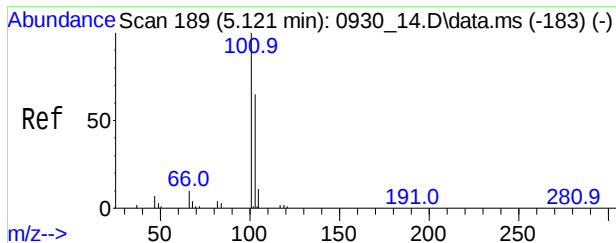
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	98556		
87	33.9	25.6	38.4	
50	15.9	10.6	15.8#	



#3
Vinyl Chloride
Conc: 8\$ Below Cal
RT: 3.891 min Scan# 62
Delta R.T. -0.016 min
Lab File: 1204_29.D
Acq: 04 Dec 2019 06:29 pm

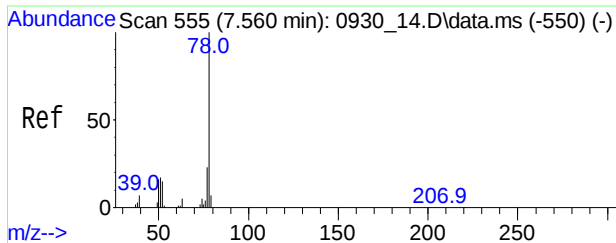
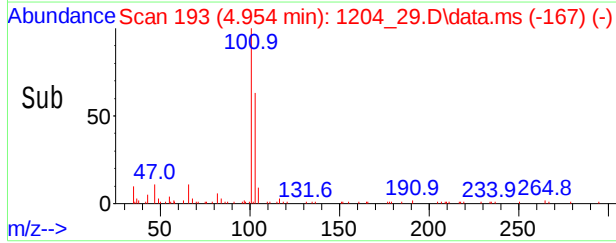
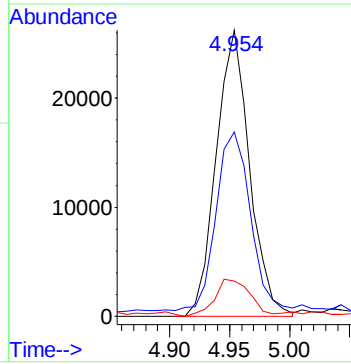
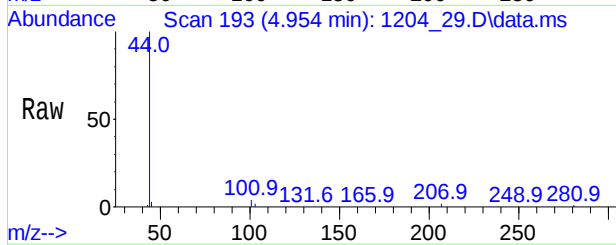
Tgt Ion	Ratio	Resp	Lower	Upper
62	100	1063		
64	51.4	11.7	51.7	





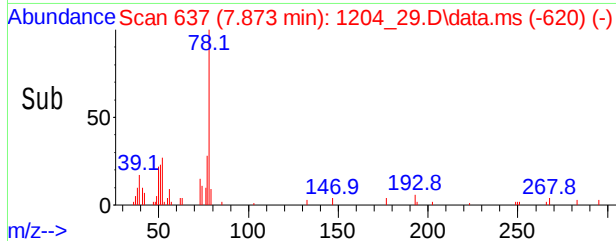
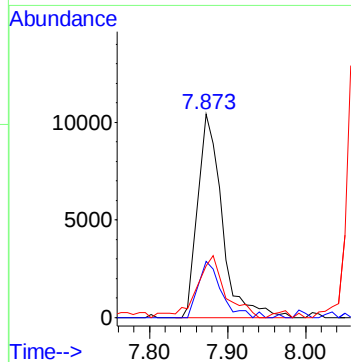
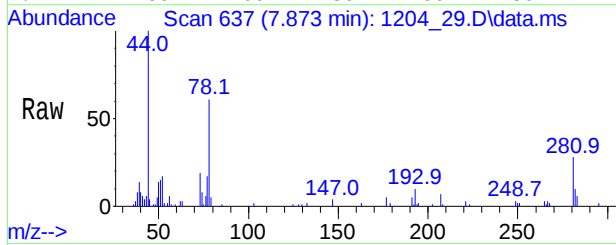
#5
 Trichlorofluoromethane
 Conc: 8\$ 0.252 ppbv
 RT: 4.954 min Scan# 193
 Delta R.T. 0.008 min
 Lab File: 1204_29.D
 Acq: 04 Dec 2019 06:29 pm

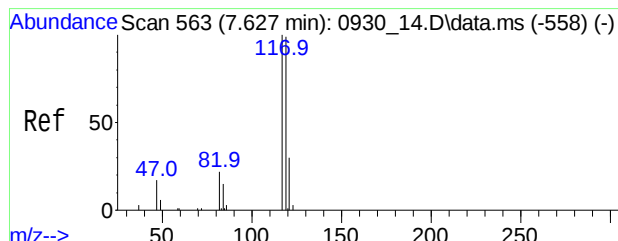
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	50594		
103	65.3	50.6	76.0	
66	13.8	9.1	13.7#	



#13
 Benzene
 Conc: 8\$ 0.156 ppbv
 RT: 7.873 min Scan# 637
 Delta R.T. -0.000 min
 Lab File: 1204_29.D
 Acq: 04 Dec 2019 06:29 pm

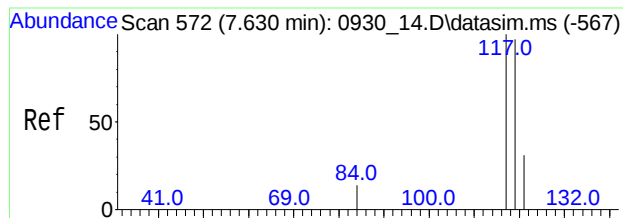
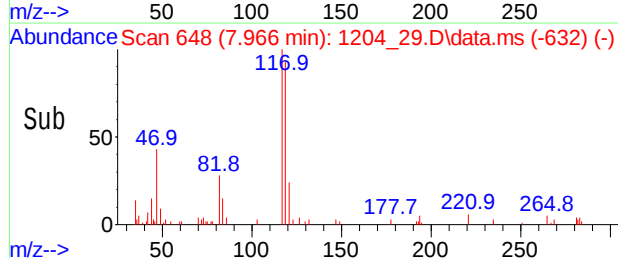
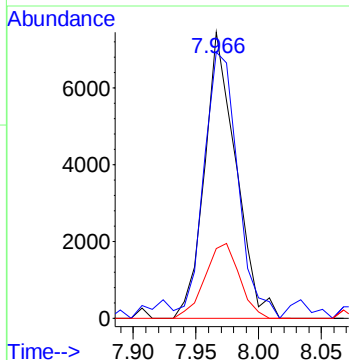
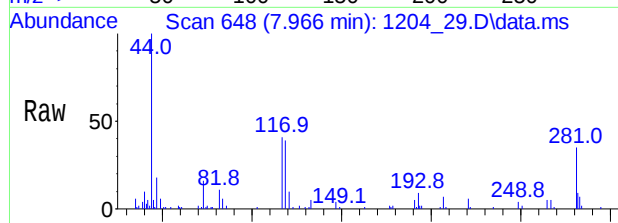
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	19272		
77	27.3	19.5	29.3	
51	37.2	20.6	30.8#	





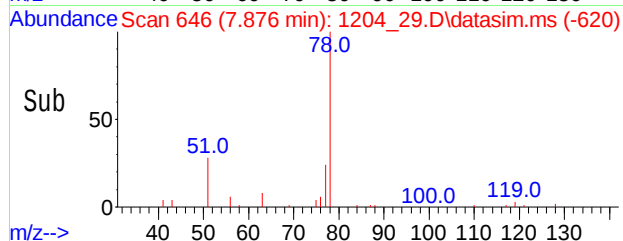
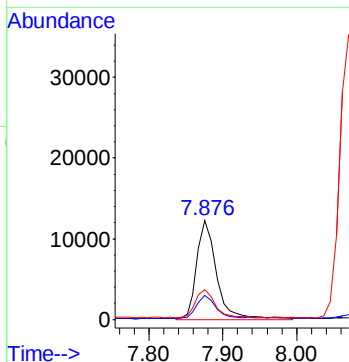
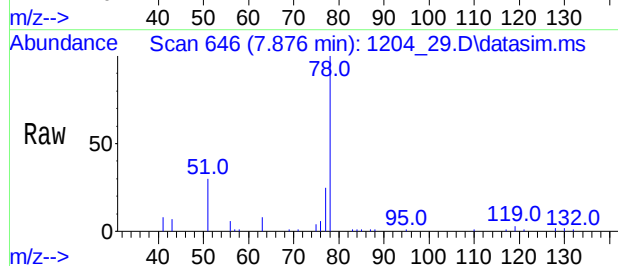
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.966 min Scan# 648
Delta R.T. -0.000 min
Lab File: 1204_29.D
Acq: 04 Dec 2019 06:29 pm

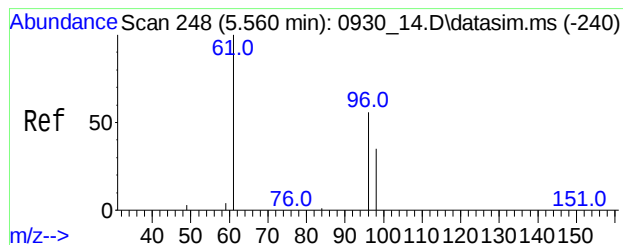
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	12950		
119	106.0	74.7	114.7	
121	28.8	9.7	49.7	



#35
Benzene(sim)
Conc: 8\$ 0.152 ug/l
RT: 7.873 min Scan# 646
Delta R.T. -0.000 min
Lab File: 1204_29.D
Acq: 04 Dec 2019 06:29 pm

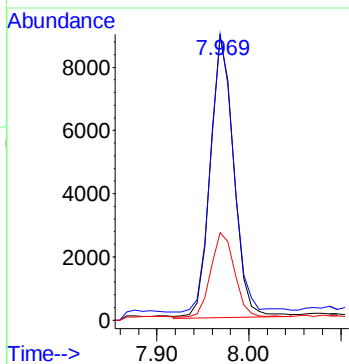
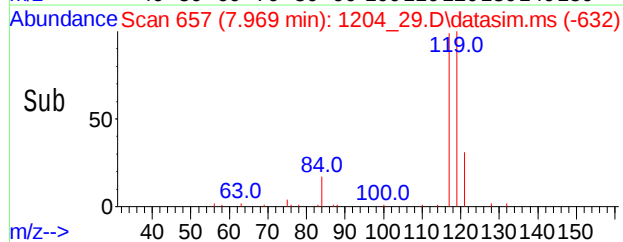
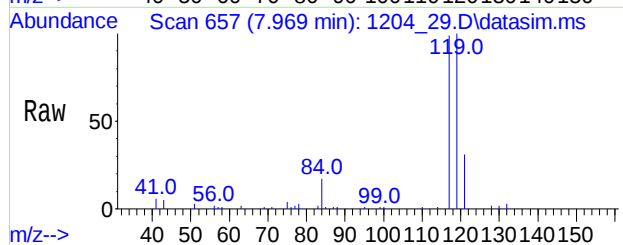
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	19165		
77	27.4	19.5	29.3	
51	37.4	20.6	30.8#	





#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.075 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_29.D
Acq: 04 Dec 2019 06:29 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	15767		
119	101.0	76.7	115.1	
121	31.4	24.5	36.7	



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Lab Sample ID: CE70615

Lab File ID: 1204_30.D

Date Received: 12/03/19

Date Analyzed: 12/04/19Dilution Factor: 1

ppbv

FORM I AIR

Page 128 of 290

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_30.D
 Acq On : 04 Dec 2019 07:09 pm
 Operator : CORTEX\ms
 Client ID : FILED BLANK
 Lab ID : CE70615
 ALS Vial : 1 Sample Multiplier: 1

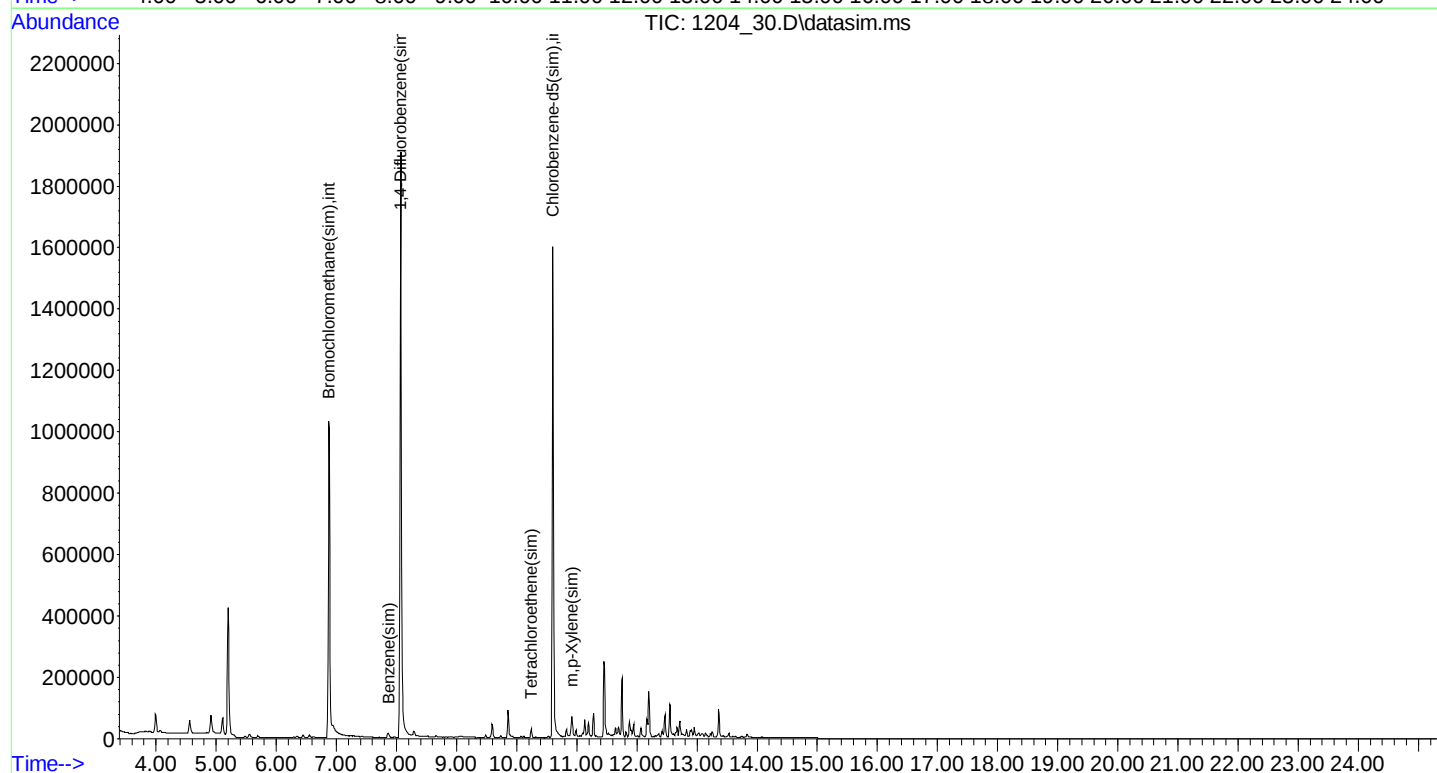
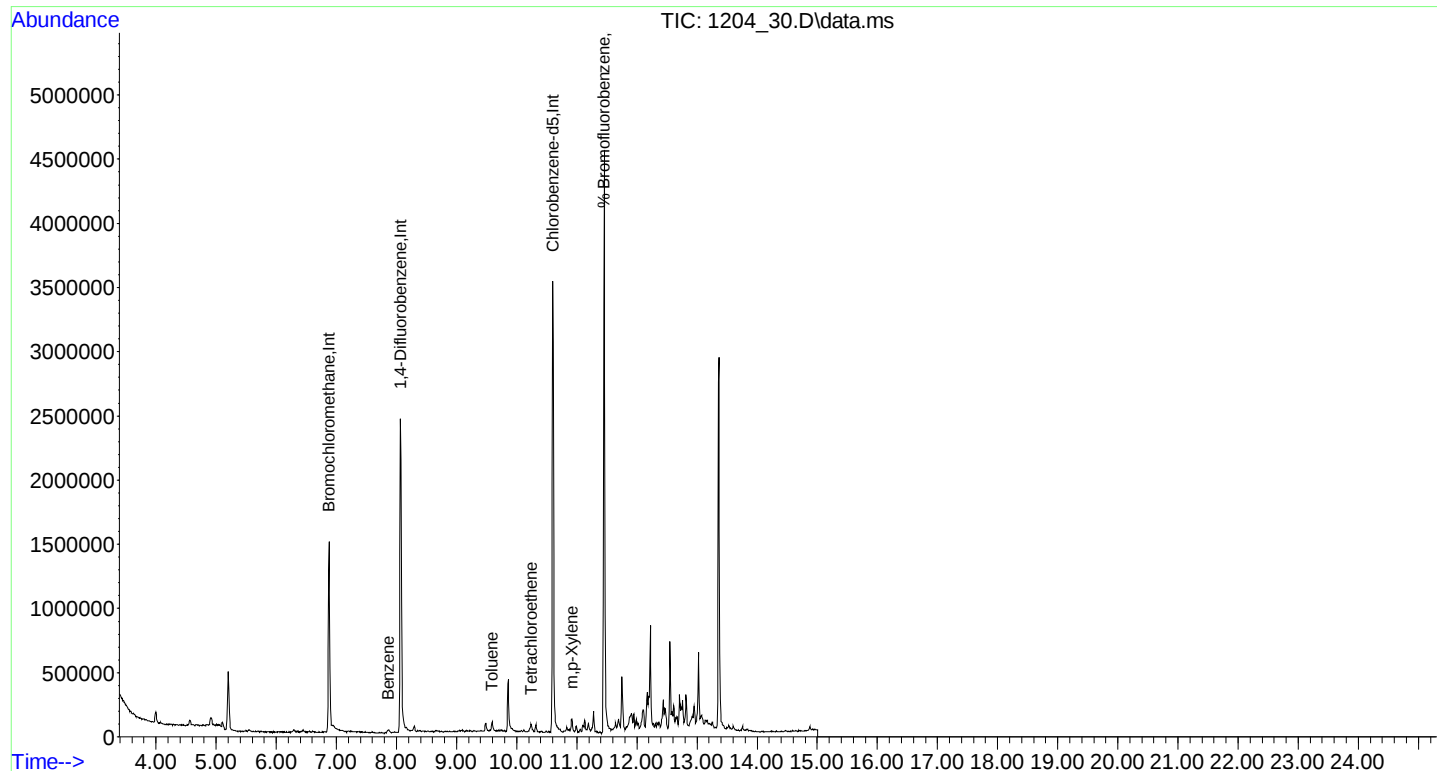
Quant Time: Dec 05 09:16:19 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

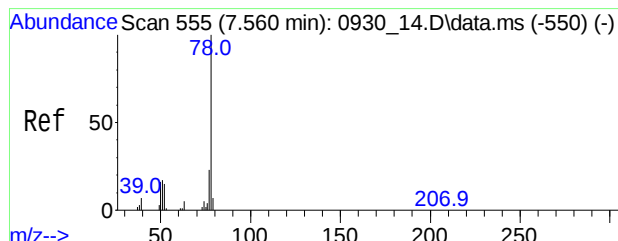
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	382865	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1468826	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	887856	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	508622	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	1775421	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	931446	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1178677	9.688	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.90%
Target Compounds						
13) Benzene	7.873	78	6948	0.062	ppbv#	Qvalue 70
18) Toluene	9.594	91	37601	0.271	ppbv	96
19) Tetrachloroethene	10.242	166	9969	0.140	ppbv	96
23) m,p-Xylene	10.919	91	46857	0.300	ppbv	98
24) o-Xylene	11.199	91	25569	0.148	ppbv	92
35) Benzene(sim)	7.873	78	6948	0.059	ug/l#	70
47) Tetrachloroethene(sim)	10.242	166	9893	0.132	ppbv	98
49) m,p-Xylene(sim)	10.919	91	47437	0.263	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_30.D
Acq On : 04 Dec 2019 07:09 pm
Operator : CORTEX\ms
Client ID : FILED BLANK
Lab ID : CE70615
ALS Vial : 1 Sample Multiplier: 1

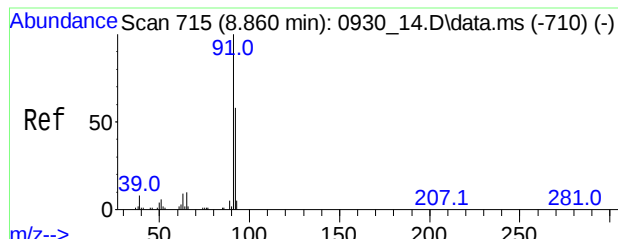
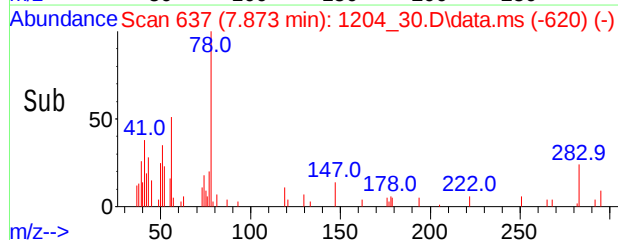
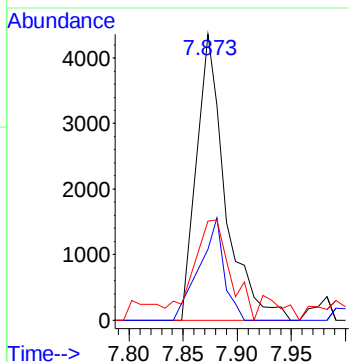
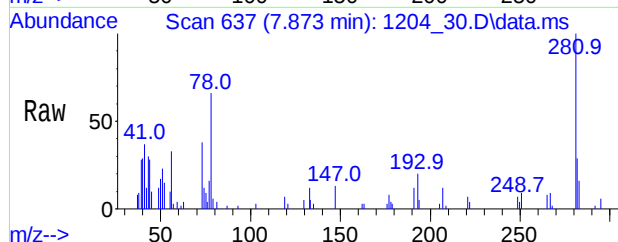
Quant Time: Dec 05 09:16:19 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:30:23 2019
Response via : Initial Calibration





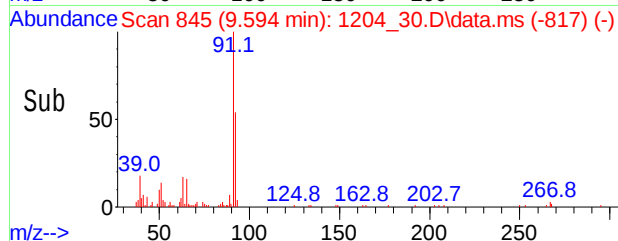
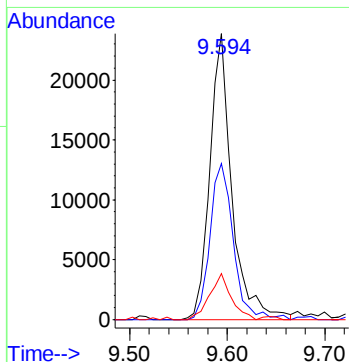
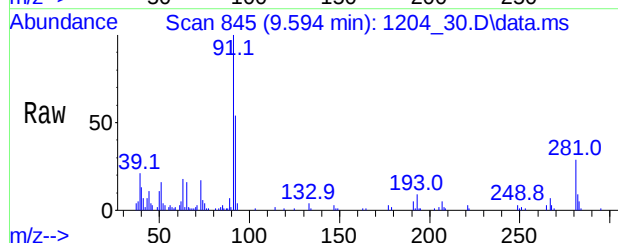
#13
Benzene
Conc: 8\$ 0.062 ppbv
RT: 7.873 min Scan# 637
Delta R.T. -0.000 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

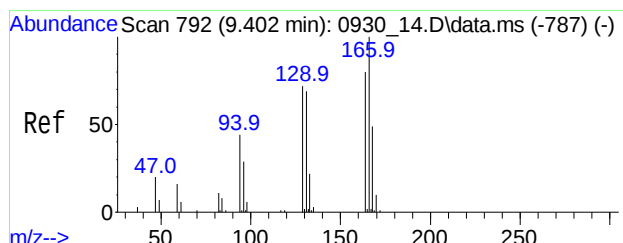
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	6948		
77	31.8	19.5		29.3#
51	47.8	20.6		30.8#



#18
Toluene
Conc: 8\$ 0.271 ppbv
RT: 9.594 min Scan# 845
Delta R.T. -0.000 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

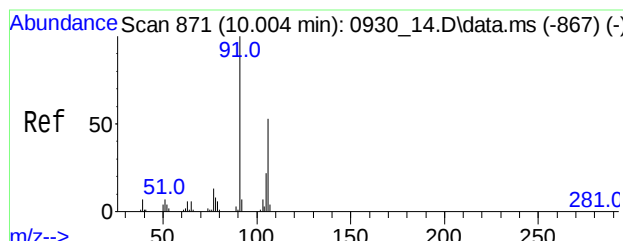
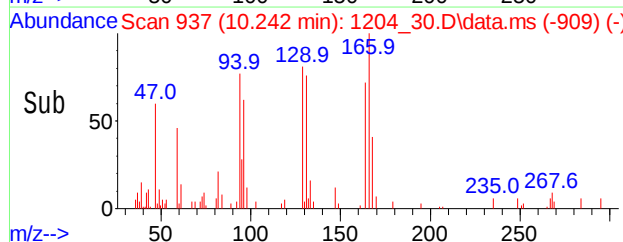
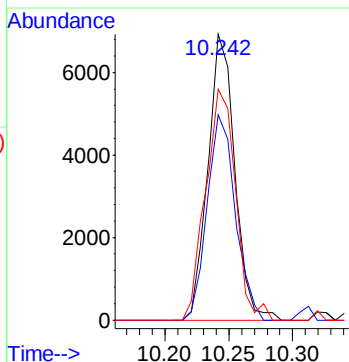
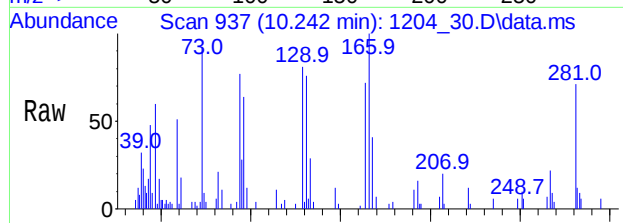
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	37601		
92	57.3	48.8		73.2
65	15.7	11.6		17.4





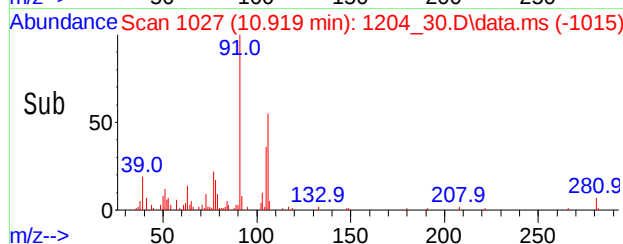
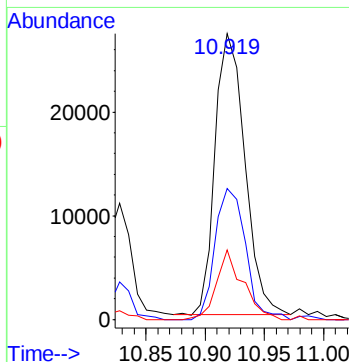
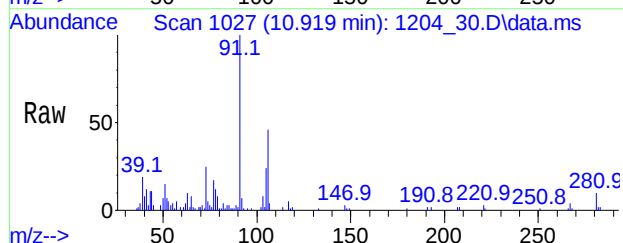
#19
Tetrachloroethene
Conc: 8\$ 0.140 ppbv
RT: 10.242 min Scan# 937
Delta R.T. -0.000 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

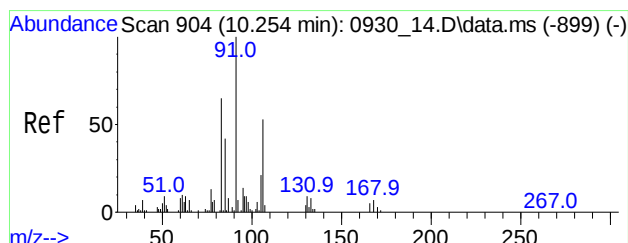
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	9969		
164	75.3	62.2	93.2	
129	90.2	67.9	101.9	



#23
m,p-Xylene
Conc: 8\$ 0.300 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. -0.008 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

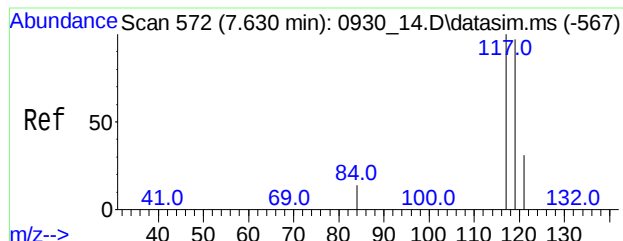
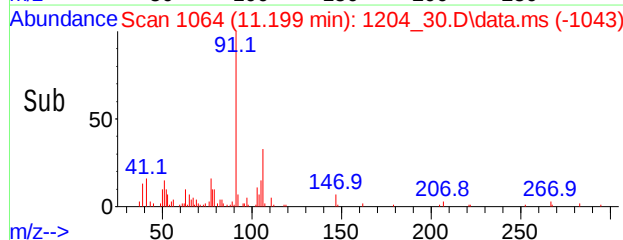
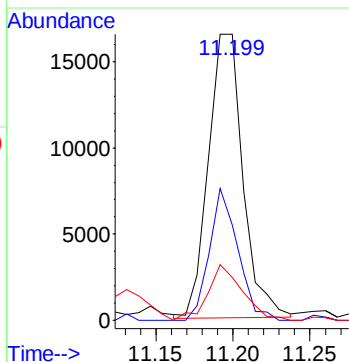
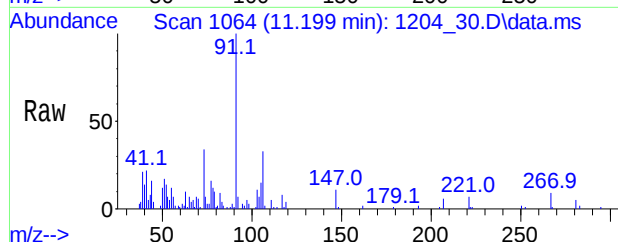
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	46857		
106	47.3	37.5	56.3	
105	22.0	16.1	24.1	





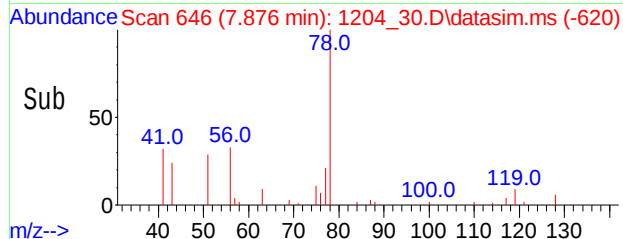
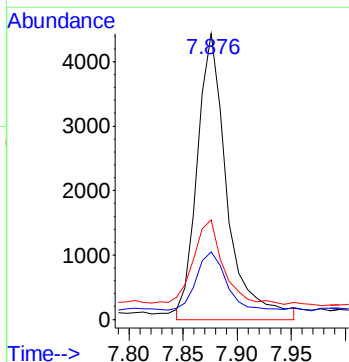
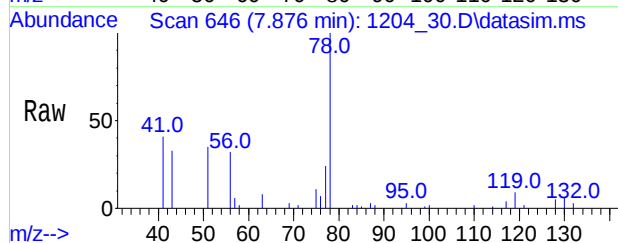
#24
o-Xylene
Conc: 8\$ 0.148 ppbv
RT: 11.199 min Scan# 1064
Delta R.T. 0.008 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

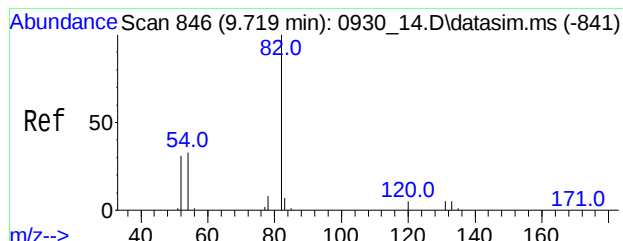
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	25569		
106	38.2	35.1	52.7	
105	19.4	13.7	20.5	



#35
Benzene(sim)
Conc: 8\$ 0.059 ug/l
RT: 7.873 min Scan# 646
Delta R.T. -0.000 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

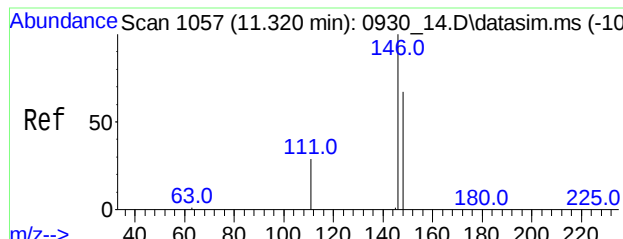
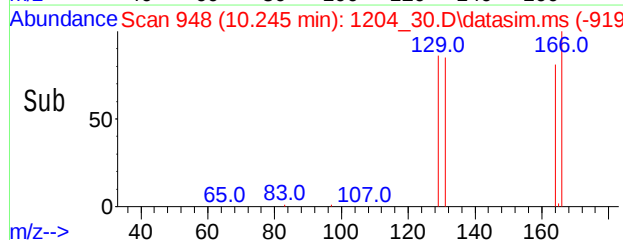
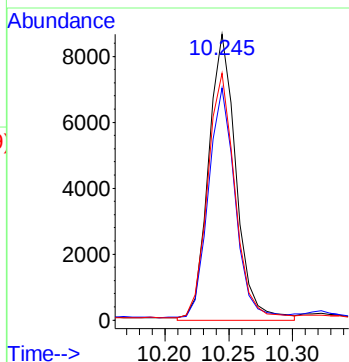
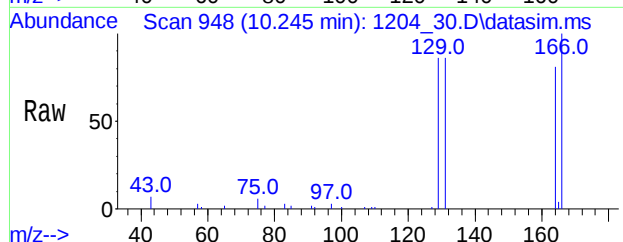
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	6948		
77	31.8	19.5	29.3#	
51	47.8	20.6	30.8#	





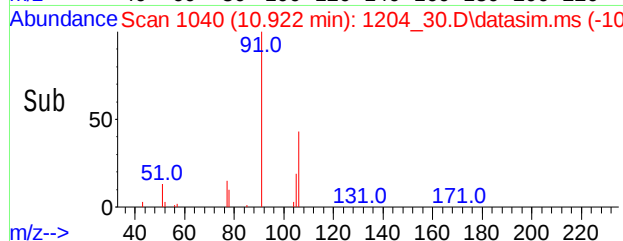
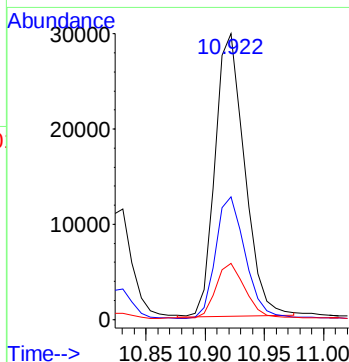
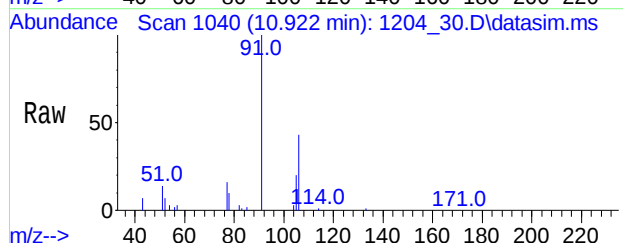
#47
Tetrachloroethene(sim)
Conc: 8\$ 0.132 ppbv
RT: 10.242 min Scan# 948
Delta R.T. -0.000 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

Tgt Ion: 166 Resp: 9893
Ion Ratio Lower Upper
166 100
164 75.8 57.7 97.7
129 86.5 65.2 105.2



#49
m,p-Xylene(sim)
Conc: 8\$ 0.263 ppbv
RT: 10.919 min Scan# 1040
Delta R.T. -0.008 min
Lab File: 1204_30.D
Acq: 04 Dec 2019 07:09 pm

Tgt Ion: 91 Resp: 47437
Ion Ratio Lower Upper
91 100
106 46.8 42.3 51.7
105 21.7 16.0 24.0



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Lab Sample ID: CE70616

Lab File ID: 1204_31.D

Date Received: 12/03/19

Date Analyzed: 12/04/19

Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

FORM I AIR

Page 135 of 290

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_31.D
 Acq On : 04 Dec 2019 07:50 pm
 Operator : CORTEX\ms
 Client ID : DUPLICATE
 Lab ID : CE70616
 ALS Vial : 1 Sample Multiplier: 1

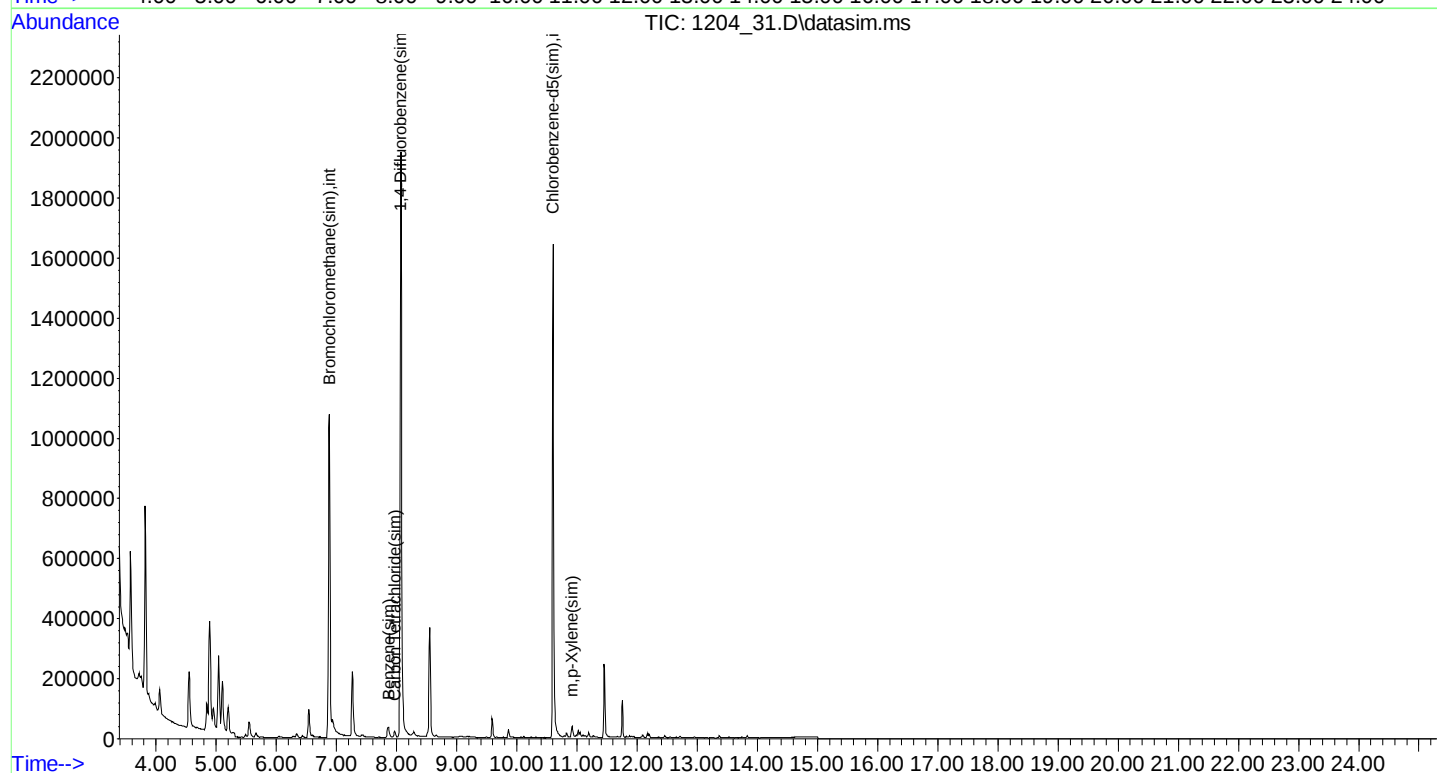
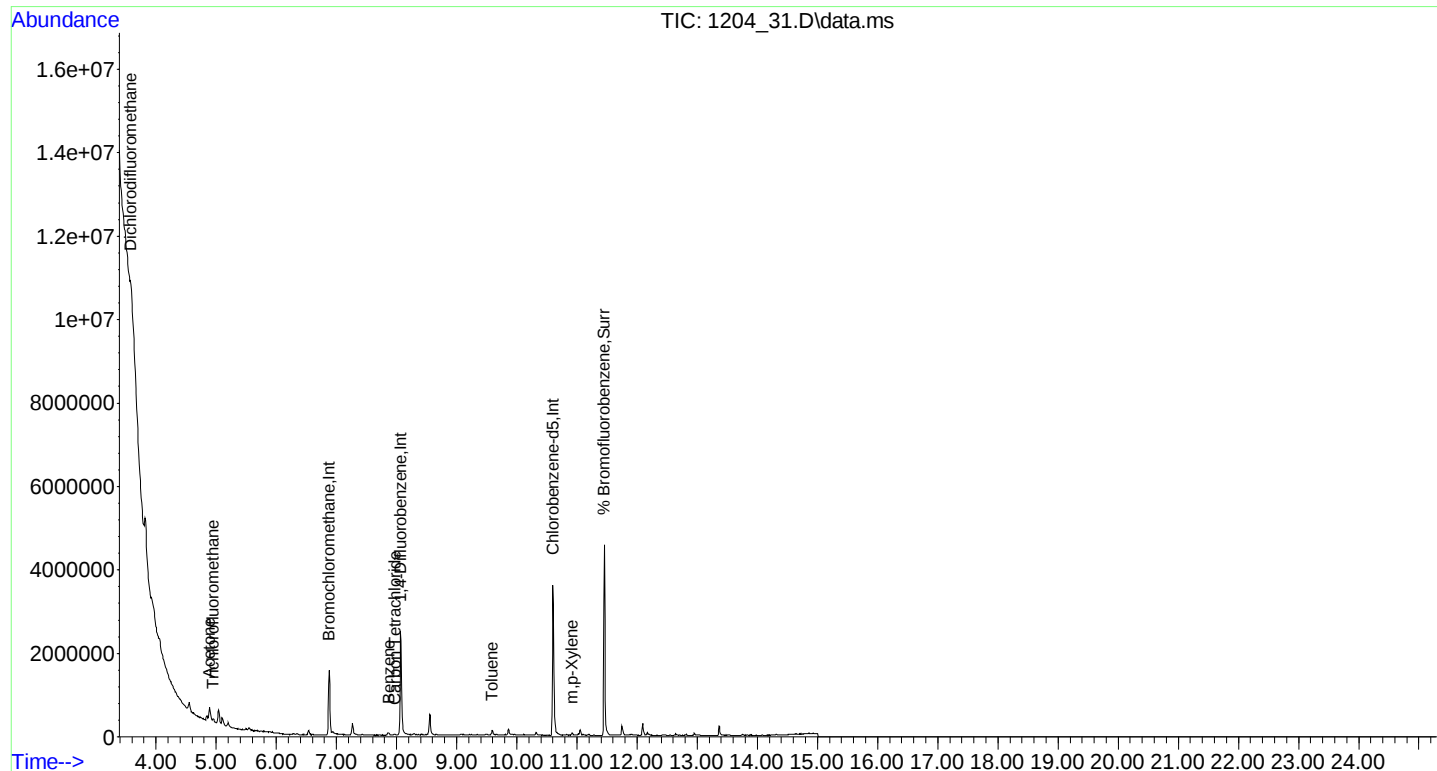
Quant Time: Dec 05 09:16:22 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

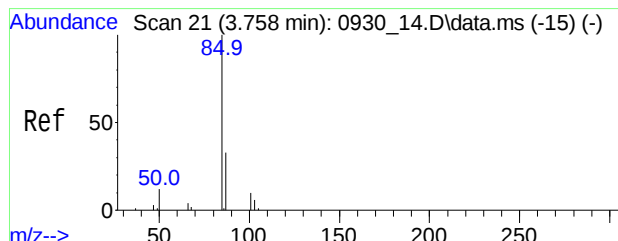
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	386069	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1537827	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	904992	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	520633	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	1827724	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	954186	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1151666	9.287	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.90%
Target Compounds						
2) Dichlorodifluoromethane	3.574	85	104756	0.508	ppbv#	92
4) Acetone	4.889	43	593280	7.192	ppbv	91
5) Trichlorofluoromethane	4.953	101	50736	0.273	ppbv#	94
13) Benzene	7.873	78	16031	0.141	ppbv#	83
14) Carbon Tetrachloride	7.974	117	11484	0.075	ppbv#	78
18) Toluene	9.594	91	50850	0.350	ppbv	97
23) m,p-Xylene	10.919	91	28421	0.179	ppbv	96
35] Benzene(sim)	7.873	78	16031	0.134	ug/l#	83
36] Carbon Tetrachloride(sim)	7.969	117	15390	0.077	ppbv	99
49] m,p-Xylene(sim)	10.919	91	29799	0.161	ppbv#	94

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_31.D
Acq On : 04 Dec 2019 07:50 pm
Operator : CORTEX\ms
Client ID : DUPLICATE
Lab ID : CE70616
ALS Vial : 1 Sample Multiplier: 1

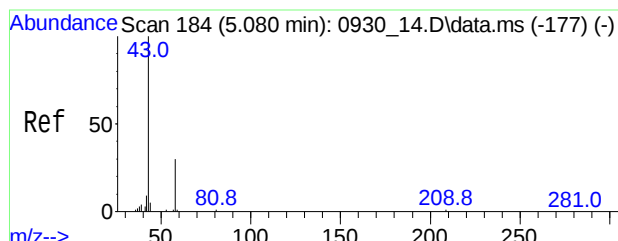
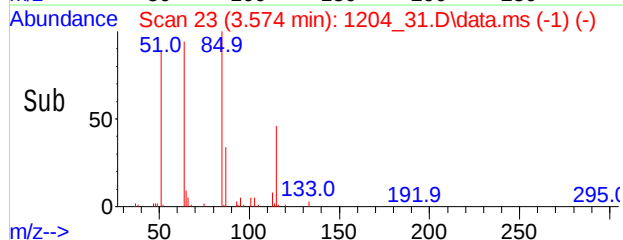
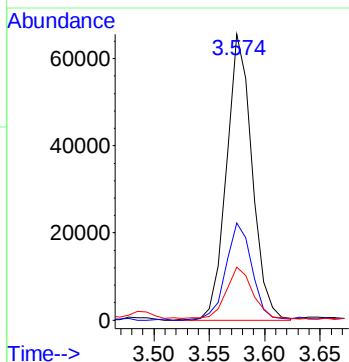
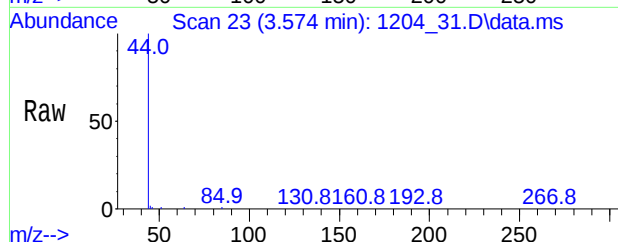
Quant Time: Dec 05 09:16:22 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:30:23 2019
Response via : Initial Calibration





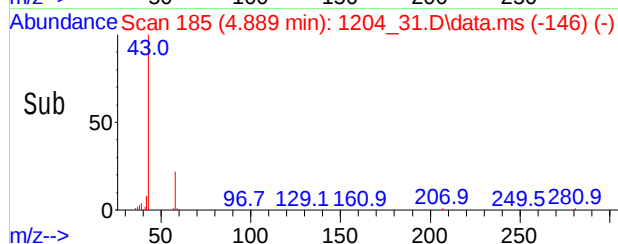
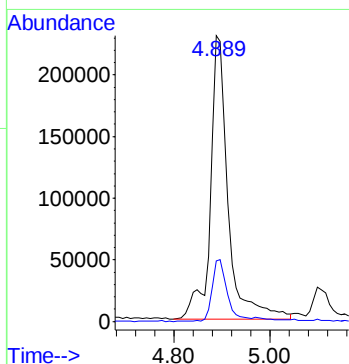
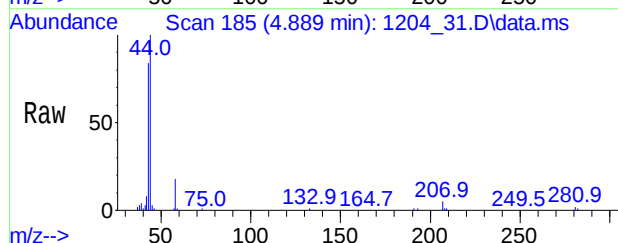
#2
Dichlorodifluoromethane
Conc: 8\$ 0.508 ppbv
RT: 3.574 min Scan# 23
Delta R.T. -0.000 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

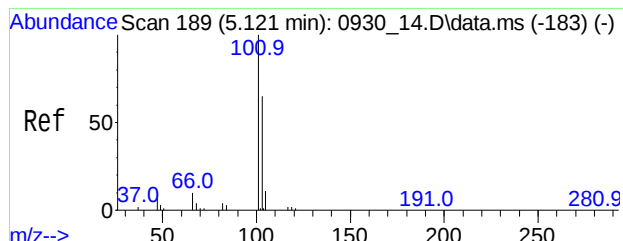
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	104756		
87	34.7	25.6	38.4	
50	19.0	10.6	15.8#	



#4
Acetone
Conc: 8\$ 7.192 ppbv
RT: 4.889 min Scan# 185
Delta R.T. 0.016 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

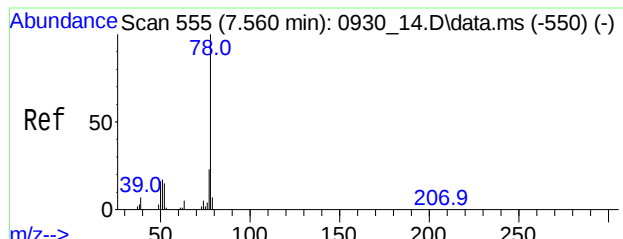
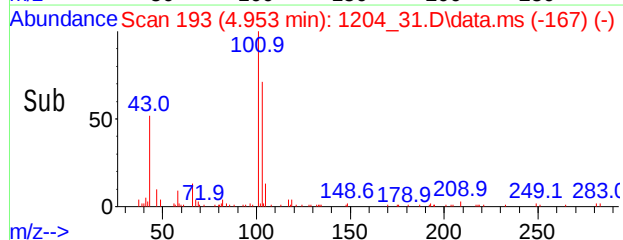
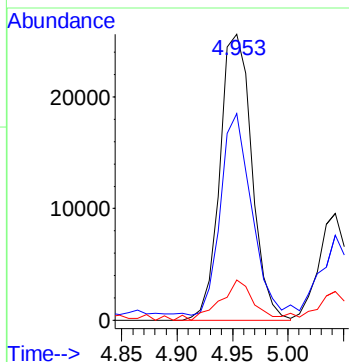
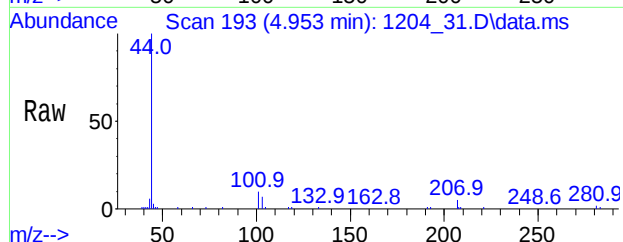
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	593280		
58	18.2	18.2	27.2	





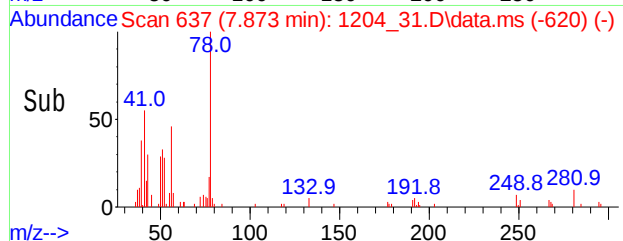
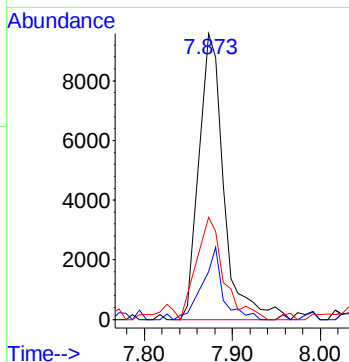
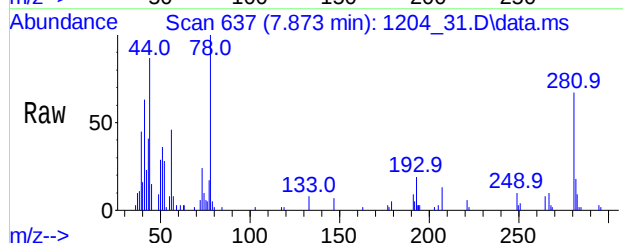
#5
Trichlorofluoromethane
Conc: 8\$ 0.273 ppbv
RT: 4.953 min Scan# 193
Delta R.T. 0.008 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

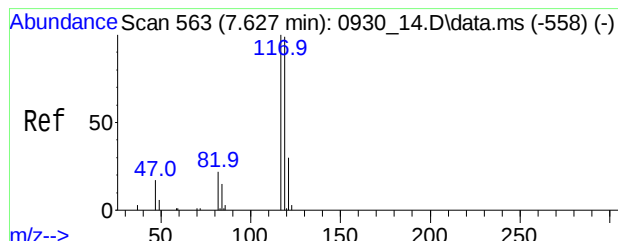
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	50736		
103	68.1	50.6	76.0	
66	14.4	9.1	13.7#	



#13
Benzene
Conc: 8\$ 0.141 ppbv
RT: 7.873 min Scan# 637
Delta R.T. -0.000 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

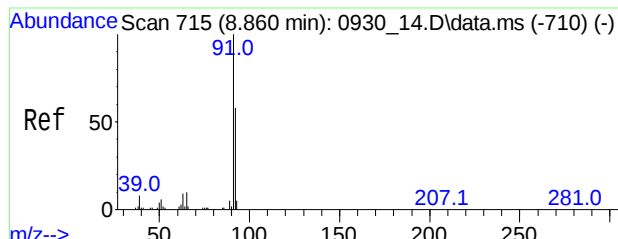
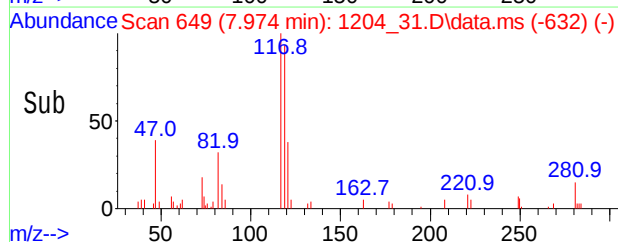
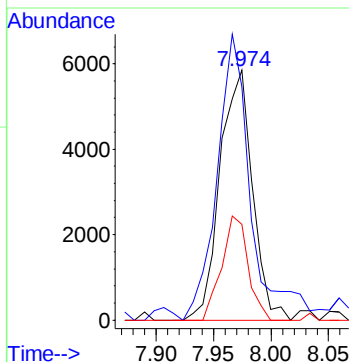
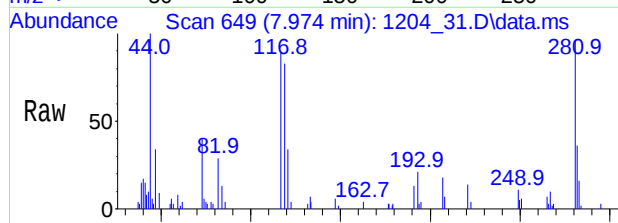
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	16031		
77	22.0	19.5	29.3	
51	39.9	20.6	30.8#	





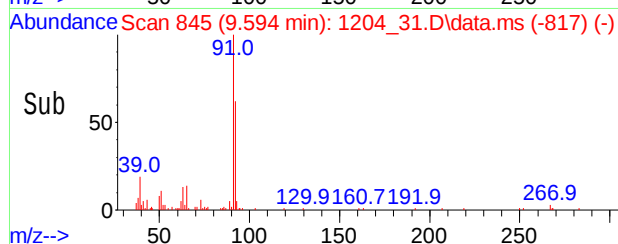
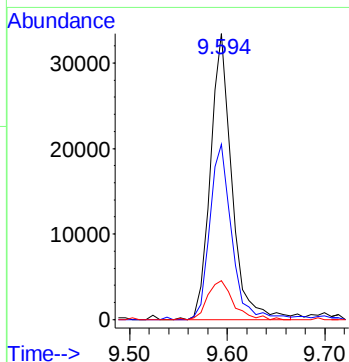
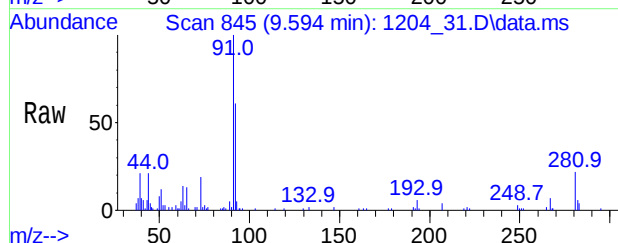
#14
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.974 min Scan# 649
Delta R.T. 0.008 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

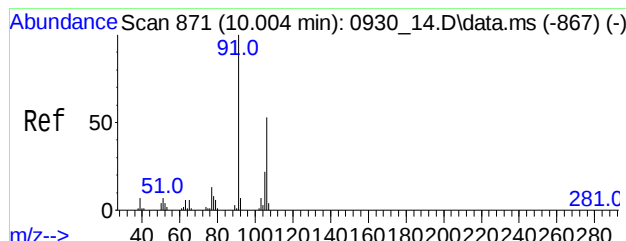
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	11484		
119	119.9	74.7	114.7#	
121	33.8	9.7	49.7	



#18
Toluene
Conc: 8\$ 0.350 ppbv
RT: 9.594 min Scan# 845
Delta R.T. -0.000 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

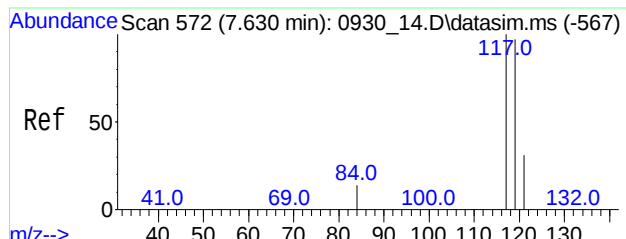
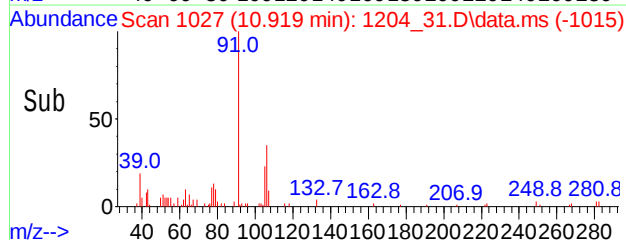
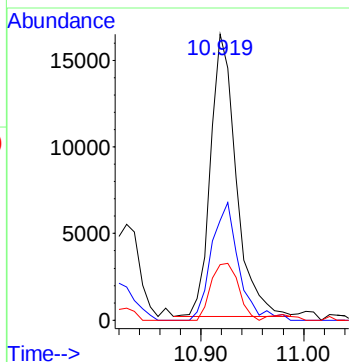
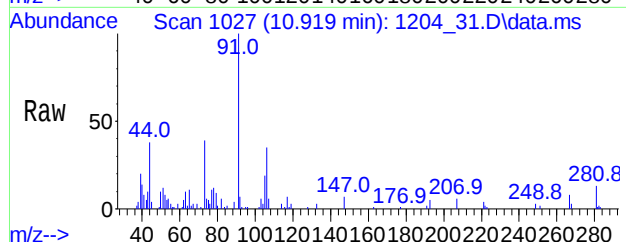
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	50850		
92	63.3	48.8	73.2	
65	16.3	11.6	17.4	





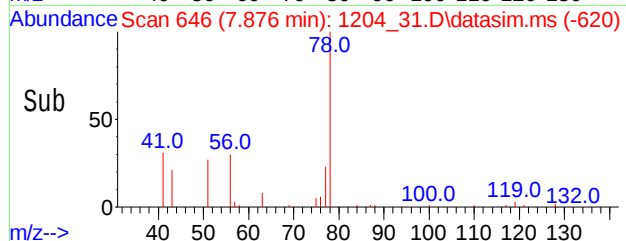
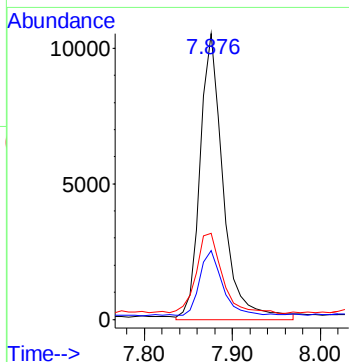
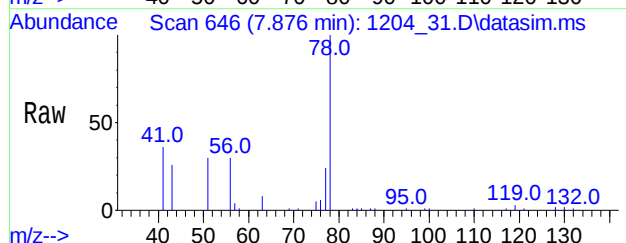
#23
m,p-Xylene
Conc: 8\$ 0.179 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. -0.008 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

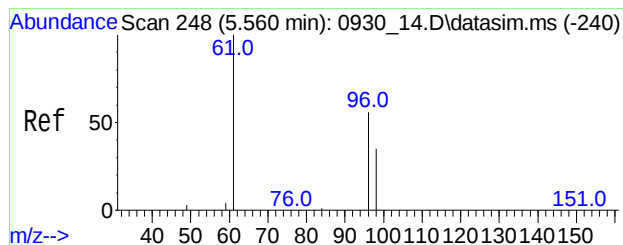
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	28421		
106	43.9	37.5	56.3	
105	21.5	16.1	24.1	



#35
Benzene(sim)
Conc: 8\$ 0.134 ug/l
RT: 7.873 min Scan# 646
Delta R.T. -0.000 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

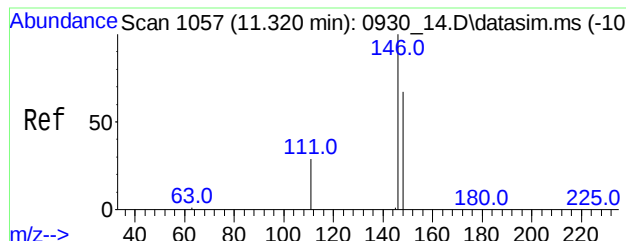
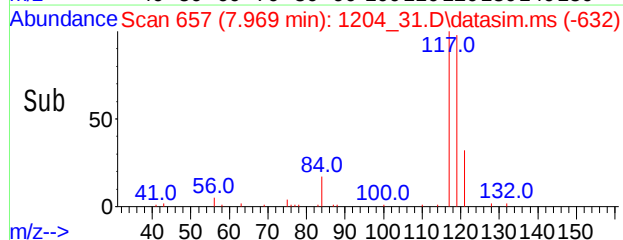
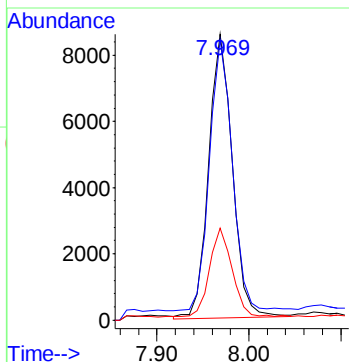
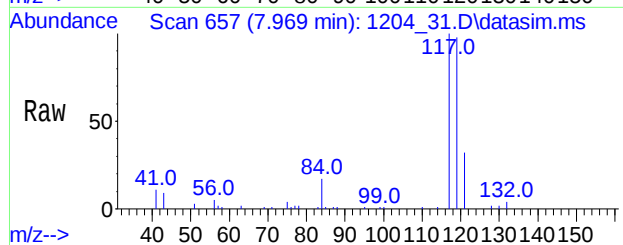
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	16031		
77	22.0	19.5	29.3	
51	39.9	20.6	30.8#	





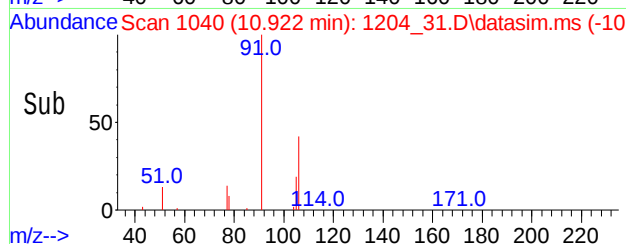
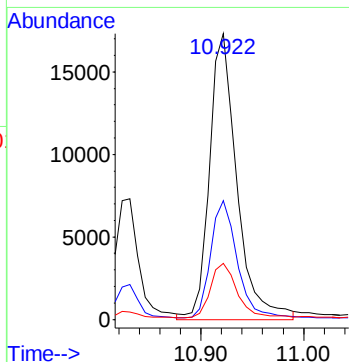
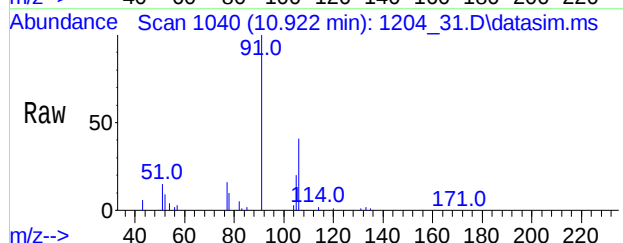
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.077 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	15390		
119	96.8	76.7	115.1	
121	30.4	24.5	36.7	



#49
m,p-Xylene(sim)
Conc: 8\$ 0.161 ppbv
RT: 10.919 min Scan# 1040
Delta R.T. -0.008 min
Lab File: 1204_31.D
Acq: 04 Dec 2019 07:50 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	29799		
106	41.9	42.3	51.7#	
105	20.5	16.0	24.0	



Response Factor Report Chem 20

Method Path : H:\AIR2019\CHEM20\METHODS\
 Method File : 20_AIR_1203_wal.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:30:16 2019
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,l,f,q,qf) display calculated conc and corr. coefficient.)
 .035=1204_04.D 0.05=1204_05.D 0.10=1204_06.D 0.2=1204_14.D 0.5=1204_07.D 1.0=1204_13.D 2.5=1204_08.D 5.0=1204_09.D
 10=1204_15.D 25=1204_10.D 40=1204_11.D 0.02=1204_03.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----													
2) Dichlorodifluo...				5.754	5.111	5.688	5.158	5.855	5.319	5.038	4.796		5.340	7.19
3) Vinyl Chloride				1.391	1.161	1.279	1.154	1.318	1.235	1.204	1.216		1.245	6.49
4) Acetone					1.954	2.054	2.064	2.329	2.312	2.122	2.123		2.137	6.44
5) Trichlorofluor...				5.077	4.451	4.837	4.707	5.282	5.065	4.571	4.497		4.811	6.36
6) 1,1-Dichloroet...				2.613	2.157	2.382	2.331	2.590	2.438	2.296	2.225		2.379	6.85
7) Methylene Chlo...					1.459	1.571	1.526	1.728	1.629	1.482	1.436		1.547	6.73
8) Trichlorotrifl...				2.833	2.623	2.738	2.669	2.915	2.664	2.491	2.442		2.672	5.96
10) Cis-1,2-Dichlo...				1.886	1.805	2.027	1.993	2.240	2.223	2.079	2.011		2.033	7.36
12) 1,1,1-Trichlor...				3.725	3.370	3.489	3.491	3.841	3.627	3.445	3.282		3.534	5.26
13) Benzene		4.530	3.717	2.662	2.409	2.578	2.403	2.828	2.740	2.850	2.783		2.950	22.58
14) Carbon Tetrach...				3.895	3.682	3.903	3.957	4.366	4.168	4.028	3.899		3.987	5.15
15) Int 1,4-Difluorobenzene	-----ISTD-----													
17) Trichloroethene				0.384	0.346	0.370	0.370	0.388	0.382	0.382	0.387		0.376	3.74
18) Toluene				0.960	0.851	0.962	0.925	1.020	0.977	0.955	0.902		0.944	5.41
19) Tetrachloroethene				0.467	0.431	0.444	0.474	0.496	0.481	0.525	0.560		0.485	8.67
20) Int Chlorobenzene-d5	-----ISTD-----													
21) Chlorobenzene				1.416	1.345	1.408	1.366	1.522	1.344	1.316	1.231		1.368	6.20
22) Ethylbenzene				2.395	2.130	2.420	2.371	2.553	2.391	2.208	1.923		2.299	8.70
23) m,p-Xylene				1.819	1.667	1.549	1.909	2.072	1.874	1.714	1.454		1.757	11.49
24) o-Xylene				1.927	1.894	2.037	1.973	2.153	2.016	1.867	1.707		1.947	6.82
25) Surr% Bromofluorob...				1.315	1.338	1.358	1.390	1.394	1.401	1.427	1.340		1.370	2.79
26) 1,3-Dichlorobe...				1.252	1.098	1.314	1.261	1.471	1.418	1.479	1.531		1.353	10.84
27) 1,4-Dichlorobe...				1.262	0.983	1.299	1.233	1.422	1.396	1.512	1.439		1.318	12.56
28) 1,2-Dichlorobe...				1.200	1.094	1.370	1.297	1.469	1.426	1.455	1.435		1.343	10.11
29) 1,2,4-Trichlor...				0.948	0.638	0.898	0.758	0.911	0.953	1.053	1.176		0.917	18.06
30) int Bromochloromethane...	-----ISTD-----													
31) Vinyl Chloride...	1.053	1.037	0.988	1.045	0.881	0.957	0.870	0.969				1.184	0.998	9.65
35) Benzene(sim)		3.154	2.660	1.999	1.828	1.929	1.810	2.704					2.298	23.26
36) Carbon Tetrach...	4.038	3.793	3.683	3.670	3.451	3.609	3.686					4.673	3.825	9.95
42) int 1,4-Difluorobenzen...	-----ISTD-----													
45) Trichloroethen...	0.504	0.377	0.306	0.325	0.295	0.314	0.310	0.334				0.563	0.370	26.20
47) Tetrachloroeth...	0.429	0.425	0.430	0.400	0.366	0.378	0.398	0.426	0.409			0.555	0.421	12.26
48) int Chlorobenzene-d5(sim)	-----ISTD-----													
49) m,p-Xylene(sim)	1.901	1.907	1.707	1.890	1.636	1.911	1.853	2.024				2.598	1.936	14.14
51) 1,4-Dichlorobe...	1.271	1.154	1.059	1.276	0.948	1.268	1.185	1.377				1.738	1.253	17.78

Response Factor Report Chem 20

Method Path : H:\AIR2019\CHEM20\METHODS\
Method File : 20_AIR_1203_wal.M
Title : VOA Standards for 5 point calibration
(#,\$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

Response Factor Report Chem24

Method Path : H:\AIR2019\CHEM24\METHODS\
 Method File : 24AIR_1207.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 11 09:11:44 2019
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

.035=1207_04.D 0.05=1207_05.D 0.1=1207_06.D 0.2=1207_14.D 0.5=1207_07.D 1.0=1207_13.D 2.5=1207_08.D 5.0=1207_09.D
 10=1207_15.D 25=1207_10.D 40=1207_11.D 0.02=1207_03.D

Compound			.035	0.05	0.1	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1)	Int	Bromochloromethane	-----ISTD-----													
3)		Dichlorodifluo...		0.423	0.436	0.419	0.527	0.518	0.539	0.465	0.374	0.281			0.443	18.63
6)		Vinyl Chloride		0.884	1.153	1.145	1.199	0.957	0.926	0.860	0.862	0.810			0.977	15.13
12)		Acetone					1.795	1.760	1.629	1.559	1.451	1.279			1.579	12.30
13)		Trichlorofluor...	4.674	4.521	4.907	3.567	3.910	3.566	3.193	2.863	2.366				3.730	23.01
16)		1,1-Dichloroet...	2.028	2.042	2.140	1.769	1.808	1.755	1.719	1.619	1.446				1.814	12.20
17)		Methylene Chlo...		1.492	1.329	1.083	1.092	1.096	1.073	1.020	0.919				1.138	16.09
21)		Trichlorotrifl...			3.231	3.286	2.594	2.673	2.486	2.330	2.200	1.952			2.594	18.08
26)		Cis-1,2-Dichlo...		1.234	1.308	1.273	1.372	1.283	1.436	1.545	1.554	1.471			1.386	8.70
32)		1,1,1-Trichlor...		2.723	2.655	2.799	2.458	2.497	2.498	2.409	2.331	2.172			2.505	7.84
33)		Benzene		2.092	2.244	2.260	2.412	2.215	2.363	2.357	2.404	2.351			2.300	4.57
34)		Carbon Tetrach...		2.993	2.947	3.146	2.847	2.986	3.026	2.904	2.792	2.590			2.915	5.47
36)	Int	1,4-Difluorobenzene	-----ISTD-----													
39)		Trichloroethene		0.431	0.510	0.459	0.523	0.487	0.529	0.575	0.572	0.547			0.515	9.47
48)		Toluene		0.738	0.807	0.812	1.046	1.100	1.209	1.267	1.207	1.123			1.034	19.21
52)		Tetrachloroethene		0.672	0.678	0.676	0.745	0.728	0.759	0.799	0.810	0.755			0.736	7.05
53)	Int	Chlorobenzene-d5	-----ISTD-----													
55)		Chlorobenzene		1.542	1.660	1.593	1.637	1.569	1.646	1.658	1.600	1.560			1.607	2.78
56)		Ethylbenzene		1.842	2.147	2.393	2.540	2.470	2.532	2.474	2.345	2.213			2.328	9.78
57)		m,p-Xylene		1.121	1.377	1.588	1.504	1.877	1.966	1.937	1.830	1.712			1.657	17.19
61)		o-Xylene			1.223	1.307	1.819	1.963	2.281	2.418	2.244	2.116			1.921	23.24
62)	Surr%	Bromofluorob...	1.433	1.448	1.470	1.491	1.498	1.533	1.584	1.686	1.710				1.539	6.55
71)		1,3-Dichlorobe...	1.355	1.813	1.909	1.860	1.744	1.764	1.673	1.587	1.434				1.682	11.29
72)		1,4-Dichlorobe...	1.181	1.529	1.586	1.701	1.693	1.809	1.812	1.788	1.609				1.634	12.11
75)		1,2-Dichlorobe...	1.174	1.684	1.630	1.626	1.637	1.704	1.647	1.565	1.387				1.562	11.05
77)	qfi	1,2,4-Trichlor...			0.156	0.302	1.027	2.297	5.517	9.976	24.92				Coef R2	1.00
80)	int	Bromochloromethane...	-----ISTD-----													
82)		Vinyl Chloride...	0.846	0.899	1.019	1.207	1.140	1.237	1.001	0.962					1.039	13.72
86)		Carbon Tetrach...	2.439	2.760	3.013	2.918	3.110	2.769	2.967	2.967				3.057	2.889	7.12
94)	int	1,4-Difluorobenzen...	-----ISTD-----													
97)		Trichloroethen...	0.366	0.418	0.385	0.454	0.411	0.474	0.434	0.475				0.486	0.434	9.67
103)		Tetrachloroeth...	0.389	0.477	0.600	0.609	0.604	0.674	0.648	0.681	0.714			0.471	0.587	18.16
104)	int	Chlorobenzene-d5(sim)	-----ISTD-----													
107)	qfi	m,p-Xylene(sim)	0.041	0.069	0.136	0.331	0.943	2.194	5.122	9.926					Coef R2	1.00
113)	qf	1,4-Dichlorobe...	0.022	0.033	0.075	0.192	0.493	1.048	2.478	5.003					Coef R2	1.00
118)	qf	1,2,4-Trichlor...	0.011	0.017	0.043	0.196	0.375	1.181	2.441	5.008				0.008	Coef R2	1.00

Response Factor Report Chem24

Method Path : H:\AIR2019\CHEM24\METHODS\
Method File : 24AIR_1207.M
Title : VOA Standards for 5 point calibration
(#,\$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM20
Heated Purge (Y/N): Y
GC Column: RTX-1 60M

Client: _____
SDG No.: GCE70607
Calibration Date From: 12/03/19 22:54
Calibration Date Thru: 12/04/19 03:51
Method File: 20_AIR_1203_wal.M

Laboratory File Ids

RRF1	1204_03.D	RRF2	1204_04.D	RRF3	1204_05.D	RRF4	1204_06.D	RRF5	1204_14.D	RRF6	1204_07.D				
RRF7	1204_13.D	RRF8	1204_08.D	RRF9	1204_09.D	RRF10	1204_15.D	RRF11	1204_10.D	RRF12	1204_11.D				
COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD	
Dichlorodifluoromethane					5.754	5.111	5.688	5.158	5.855	5.319	5.038	4.796	5.340	7.19	
Vinyl Chloride					1.391	1.161	1.279	1.154	1.318	1.235	1.204	1.216	1.245	6.49	
Acetone						1.954	2.054	2.064	2.329	2.312	2.122	2.123	2.137	6.44	
Trichlorofluoromethane					5.077	4.451	4.837	4.707	5.282	5.065	4.571	4.497	4.811	6.36	
1,1-Dichloroethene					2.613	2.157	2.382	2.331	2.590	2.438	2.296	2.225	2.379	6.85	
Methylene Chloride						1.459	1.571	1.526	1.728	1.629	1.482	1.436	1.547	6.73	
Trichlorotrifluoroethane					2.833	2.623	2.738	2.669	2.915	2.664	2.491	2.442	2.672	5.96	
Cis-1,2-Dichloroethene					1.886	1.805	2.027	1.993	2.240	2.223	2.079	2.011	2.033	7.36	
1,1,1-Trichloroethane					3.725	3.370	3.489	3.491	3.841	3.627	3.445	3.282	3.534	5.26	
Benzene			4.530	3.717	2.662	2.409	2.578	2.403	2.828	2.740	2.850	2.783	2.950	22.58	
Carbon Tetrachloride					3.895	3.682	3.903	3.957	4.366	4.168	4.028	3.899	3.987	5.15	
Trichloroethene					0.384	0.346	0.370	0.370	0.388	0.382	0.382	0.387	0.376	3.74	
Toluene					0.960	0.851	0.962	0.925	1.020	0.977	0.955	0.902	0.944	5.41	
Tetrachloroethene					0.467	0.431	0.444	0.474	0.496	0.481	0.525	0.560	0.485	8.67	
Chlorobenzene					1.416	1.345	1.408	1.366	1.522	1.344	1.316	1.231	1.368	6.20	
Ethylbenzene					2.395	2.130	2.420	2.371	2.553	2.391	2.208	1.923	2.299	8.70	
m,p-Xylene					1.819	1.667	1.549	1.909	2.072	1.874	1.714	1.454	1.757	11.49	
o-Xylene					1.927	1.894	2.037	1.973	2.153	2.016	1.867	1.707	1.947	6.82	
1,3-Dichlorobenzene					1.252	1.098	1.314	1.261	1.471	1.418	1.479	1.531	1.353	10.84	
1,4-Dichlorobenzene					1.262	0.983	1.299	1.233	1.422	1.396	1.512	1.439	1.318	12.56	
1,2-Dichlorobenzene					1.200	1.094	1.370	1.297	1.469	1.426	1.455	1.435	1.343	10.11	
1,2,4-Trichlorobenzene					0.948	0.638	0.898	0.758	0.911	0.953	1.053	1.176	0.917	18.06	
Vinyl Chloride(sim)	1.184	1.053	1.037	0.988	1.045	0.881	0.957	0.870	0.969				0.998	9.65	
Benzene(sim)			3.154	2.660	1.999	1.828	1.929	1.810	2.704				2.298	23.26	
Carbon Tetrachloride(sim)	4.673	4.038	3.793	3.683	3.670	3.451	3.609	3.686					3.825	9.95	

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.

6B

Client:

SDG No.: GCE70607

Calibration Date From: 12/03/19 22:54

Calibration Date Thru: 12/04/19 03:51

Method File: 20 AIR 1203 wal.M

[illegible]

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Phoenix Environmental Laboratories, Inc.

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_03.D
 Acq On : 03 Dec 2019 08:28 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:14:44 2019
 Response via : Initial Calibration

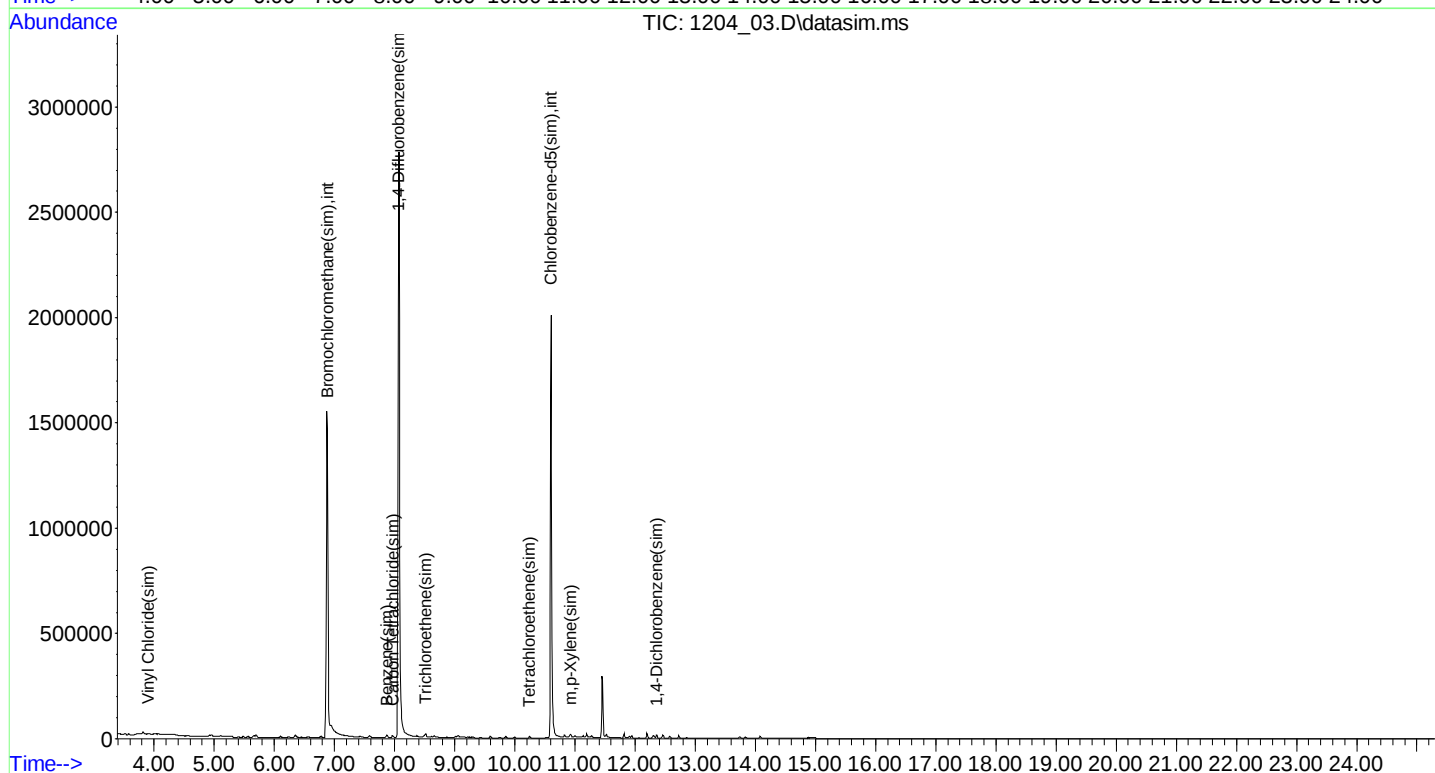
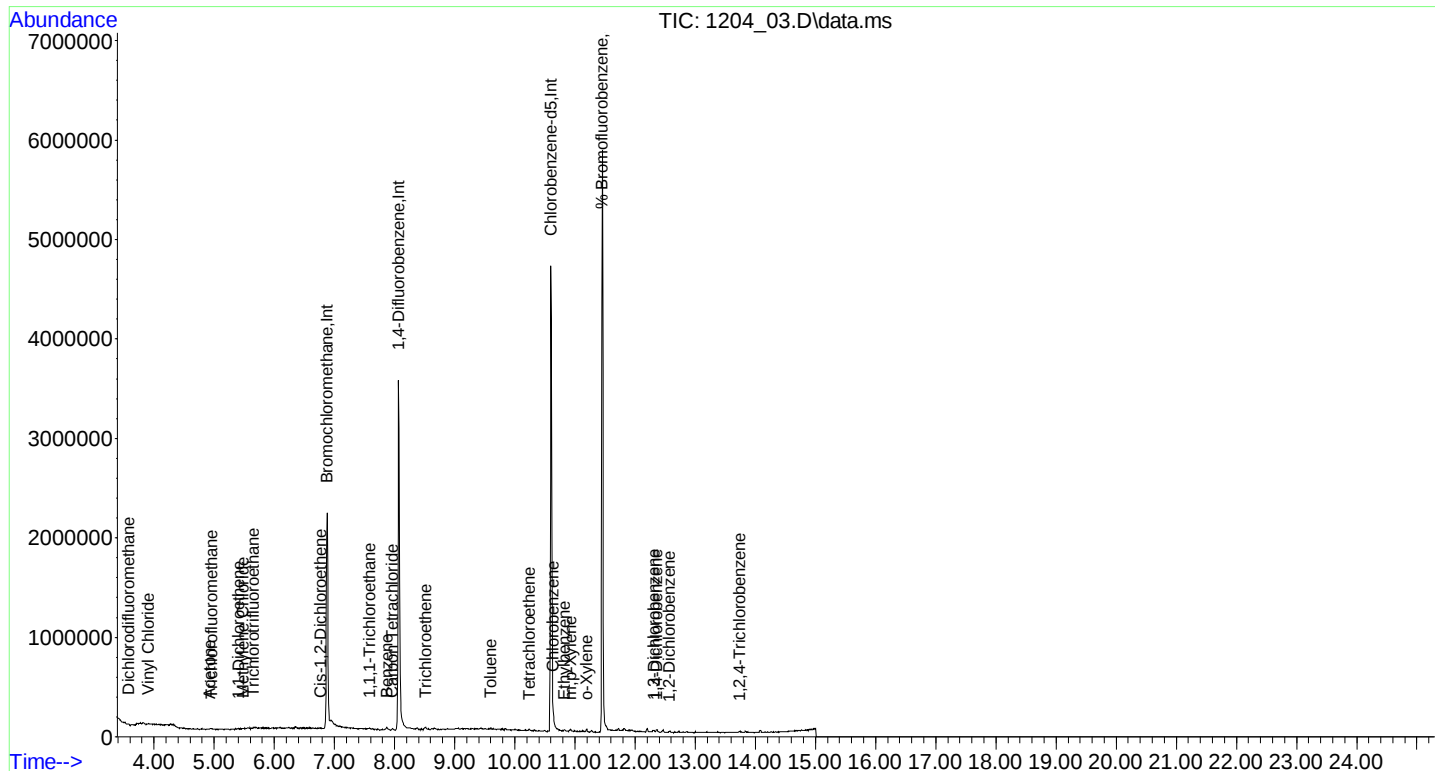
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	654608	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.067	114	2463108	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1225772	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	851705	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2875253	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1287687	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1594328	9.492	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.90%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.583	85	9101	0.026	ppbv#	91
3) Vinyl Chloride	3.907	62	2337	0.029	ppbv	74
4) Acetone	4.929	43	7008	0.050	ppbv#	88
5) Trichlorofluoromethane	4.962	101	7379	0.023	ppbv#	78
6) 1,1-Dichloroethene	5.406	61	5272	0.034	ppbv	97
7) Methylene Chloride	5.483	49	4032	0.040	ppbv	93
8) Trichlorotrifluoroethane	5.656	101	4567	0.026	ppbv	95
10) Cis-1,2-Dichloroethene	6.769	61	3307	0.025	ppbv#	85
12) 1,1,1-Trichloroethane	7.585	97	6421	0.028	ppbv#	84
13) Benzene	7.873	78	12676	0.066	ppbv	94
14) Carbon Tetrachloride	7.966	117	7595	0.029	ppbv	97
17) Trichloroethene	8.516	130	4369	0.047	ppbv#	59
18) Toluene	9.601	91	7813	0.034	ppbv#	95
19) Tetrachloroethene	10.242	166	3020	0.025	ppbv#	88
21) Chlorobenzene	10.631	112	5688	0.034	ppbv#	1
22) Ethylbenzene	10.828	91	8273	0.029	ppbv	98
23) m,p-Xylene	10.926	91	12083	0.056	ppbv	91
24) o-Xylene	11.199	91	7223	0.030	ppbv	95
26) 1,3-Dichlorobenzene	12.315	146	3691	0.022	ppbv#	84
27) 1,4-Dichlorobenzene	12.353	146	4476	0.028	ppbv#	91
28) 1,2-Dichlorobenzene	12.573	146	4095	0.025	ppbv#	54
29) 1,2,4-Trichlorobenzene	13.742	180	3169	0.028	ppbv#	93
31) Vinyl Chloride(sim)	3.910	62	2017m	0.024	ppbv	74
35) Benzene(sim)	7.873	78	12676	0.065	ug/l	94
36) Carbon Tetrachloride(sim)	7.969	117	7960	0.024	ppbv	97
45) Trichloroethene(sim)	8.511	130	3239m	0.030	ppbv	53
47) Tetrachloroethene(sim)	10.242	166	3189	0.026	ppbv	92
49) m,p-Xylene(sim)	10.926	91	13382	0.054	ppbv#	88
51) 1,4-Dichlorobenzene(sim)	12.353	146	4476	0.028	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_03.D
 Acq On : 03 Dec 2019 08:28 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:14:44 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_04.D
 Acq On : 03 Dec 2019 09:04 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:30 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:15:14 2019
 Response via : Initial Calibration

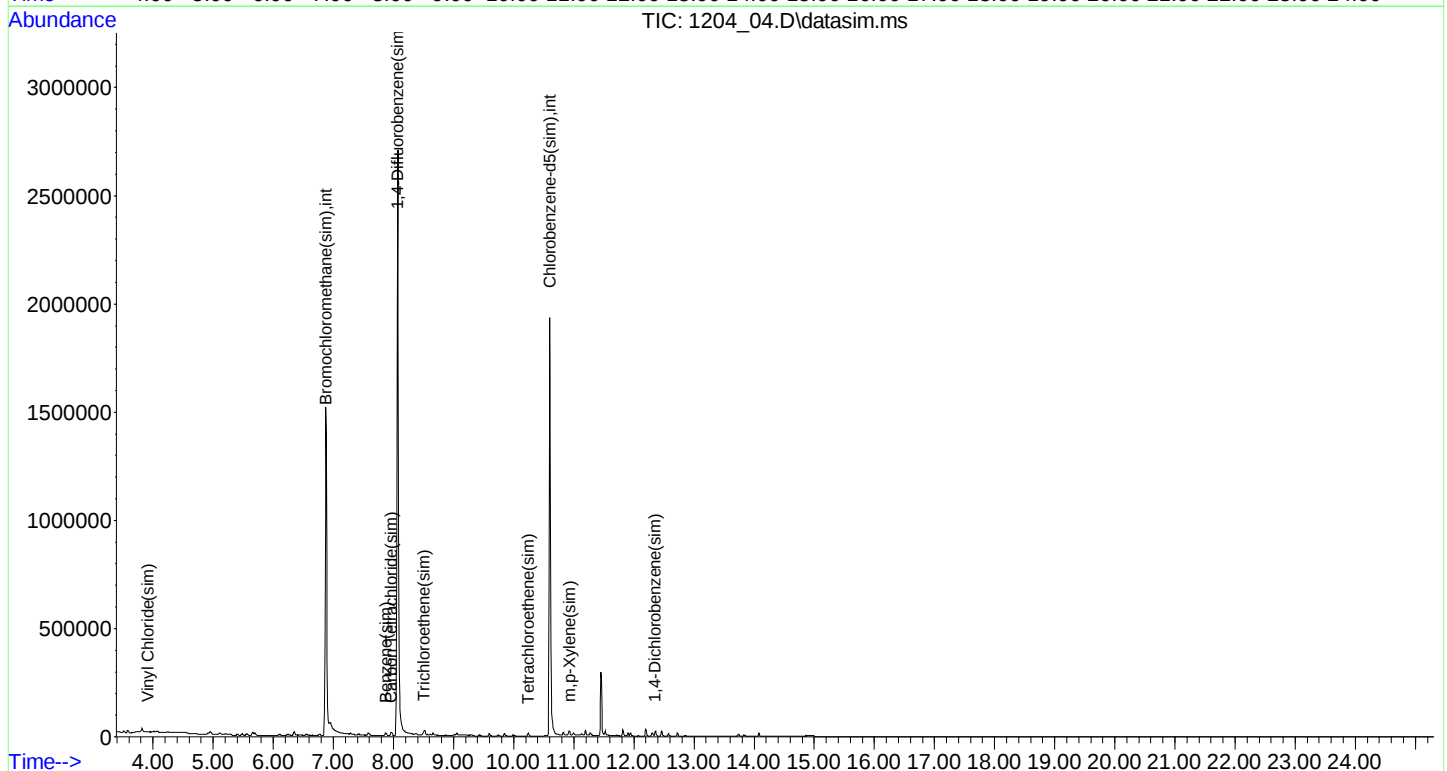
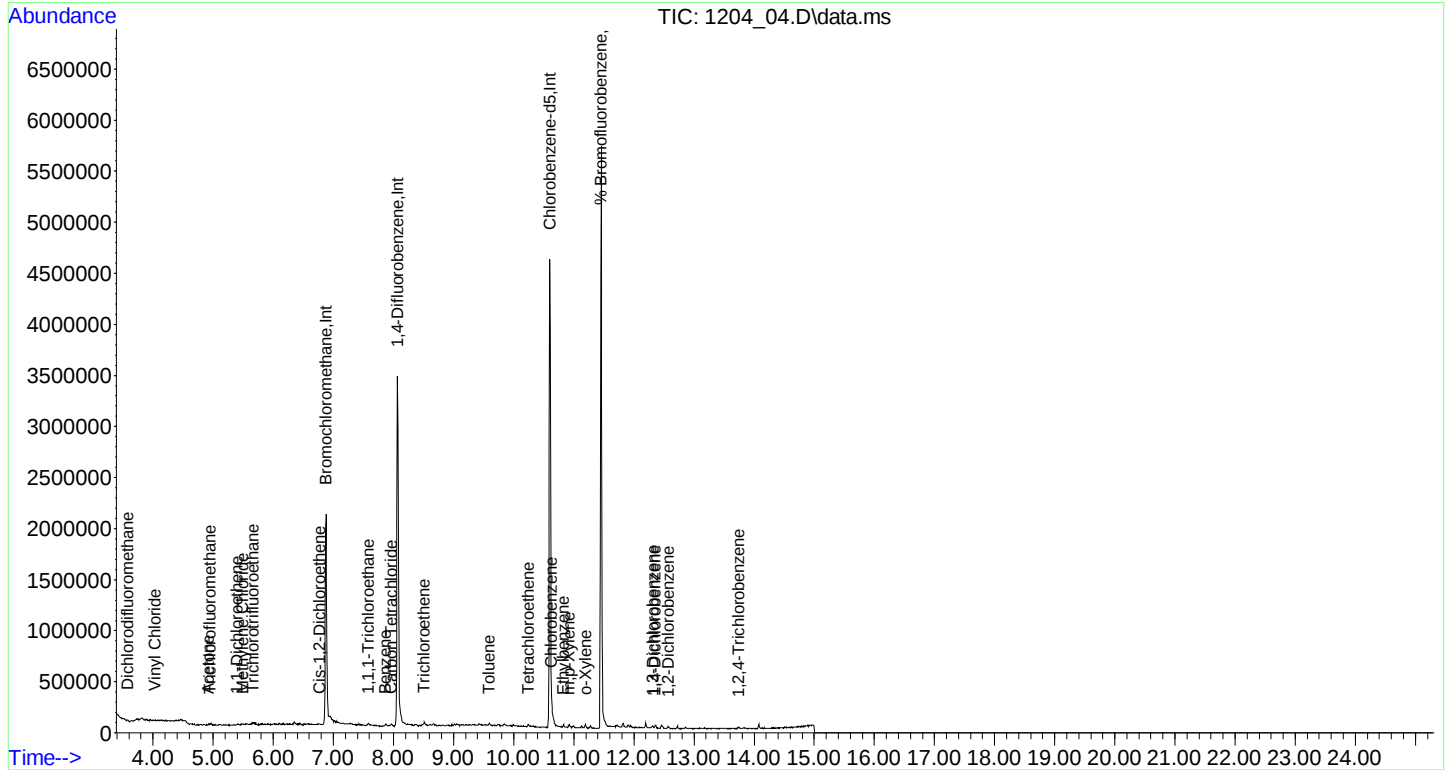
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	625796	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	2327534	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1205313	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	825171	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	2763422	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1250941	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1557440	9.430	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.30%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.583	85	13230	0.040	ppbv#	82
3) Vinyl Chloride	4.037	62	1283	0.016	ppbv	63
4) Acetone	4.921	43	7706	0.058	ppbv	98
5) Trichlorofluoromethane	4.954	101	11738	0.039	ppbv#	84
6) 1,1-Dichloroethene	5.400	61	6718	0.045	ppbv	89
7) Methylene Chloride	5.489	49	5775	0.060	ppbv#	88
8) Trichlorotrifluoroethane	5.662	101	6496	0.039	ppbv#	83
10) Cis-1,2-Dichloroethene	6.769	61	6104	0.048	ppbv#	83
12) 1,1,1-Trichloroethane	7.578	97	8235	0.037	ppbv#	85
13) Benzene	7.873	78	12252	0.066	ppbv#	90
14) Carbon Tetrachloride	7.966	117	10624	0.043	ppbv	85
17) Trichloroethene	8.508	130	4876	0.056	ppbv#	86
18) Toluene	9.594	91	10764	0.049	ppbv#	84
19) Tetrachloroethene	10.242	166	4217	0.037	ppbv	90
21) Chlorobenzene	10.631	112	7939	0.048	ppbv#	51
22) Ethylbenzene	10.828	91	12515	0.045	ppbv	90
23) m,p-Xylene	10.926	91	16535	0.078	ppbv	92
24) o-Xylene	11.199	91	9628	0.041	ppbv	93
26) 1,3-Dichlorobenzene	12.315	146	5688	0.035	ppbv#	75
27) 1,4-Dichlorobenzene	12.353	146	5566	0.035	ppbv	89
28) 1,2-Dichlorobenzene	12.573	146	5838	0.036	ppbv	84
29) 1,2,4-Trichlorobenzene	13.743	180	3400	0.031	ppbv#	88
31) Vinyl Chloride(sim)	3.918	62	3040m	0.037	ppbv	55
35) Benzene(sim)	7.873	78	12252	0.065	ug/l#	90
36) Carbon Tetrachloride(sim)	7.969	117	11662	0.037	ppbv	97
45) Trichloroethene(sim)	8.508	130	4876	0.048	ppbv#	85
47) Tetrachloroethene(sim)	10.242	166	4148	0.036	ppbv	92
49) m,p-Xylene(sim)	10.926	91	16650	0.069	ppbv#	86
51) 1,4-Dichlorobenzene(sim)	12.353	146	5566	0.036	ppbv	95

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_04.D
 Acq On : 03 Dec 2019 09:04 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:30 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:15:14 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_05.D
 Acq On : 03 Dec 2019 09:40 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:35 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:15:43 2019
 Response via : Initial Calibration

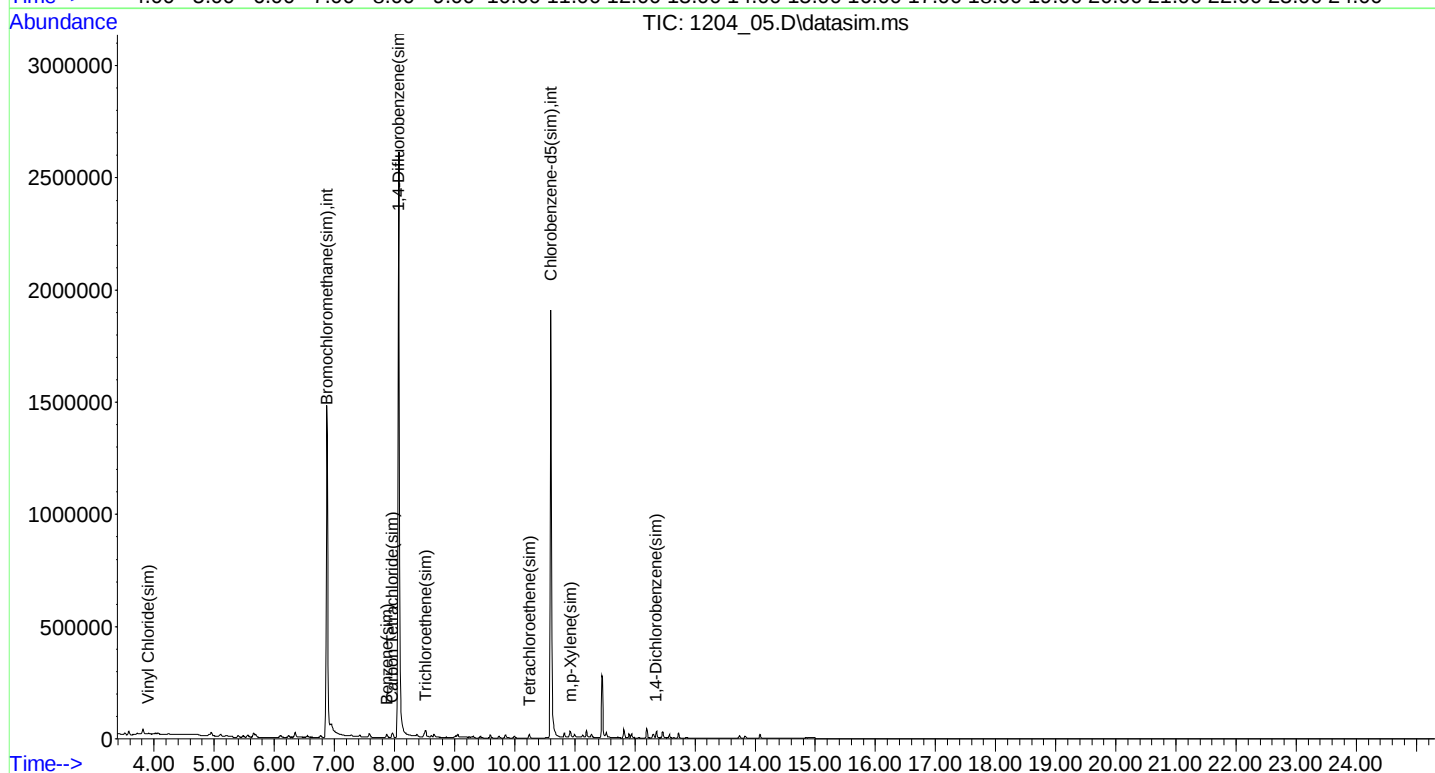
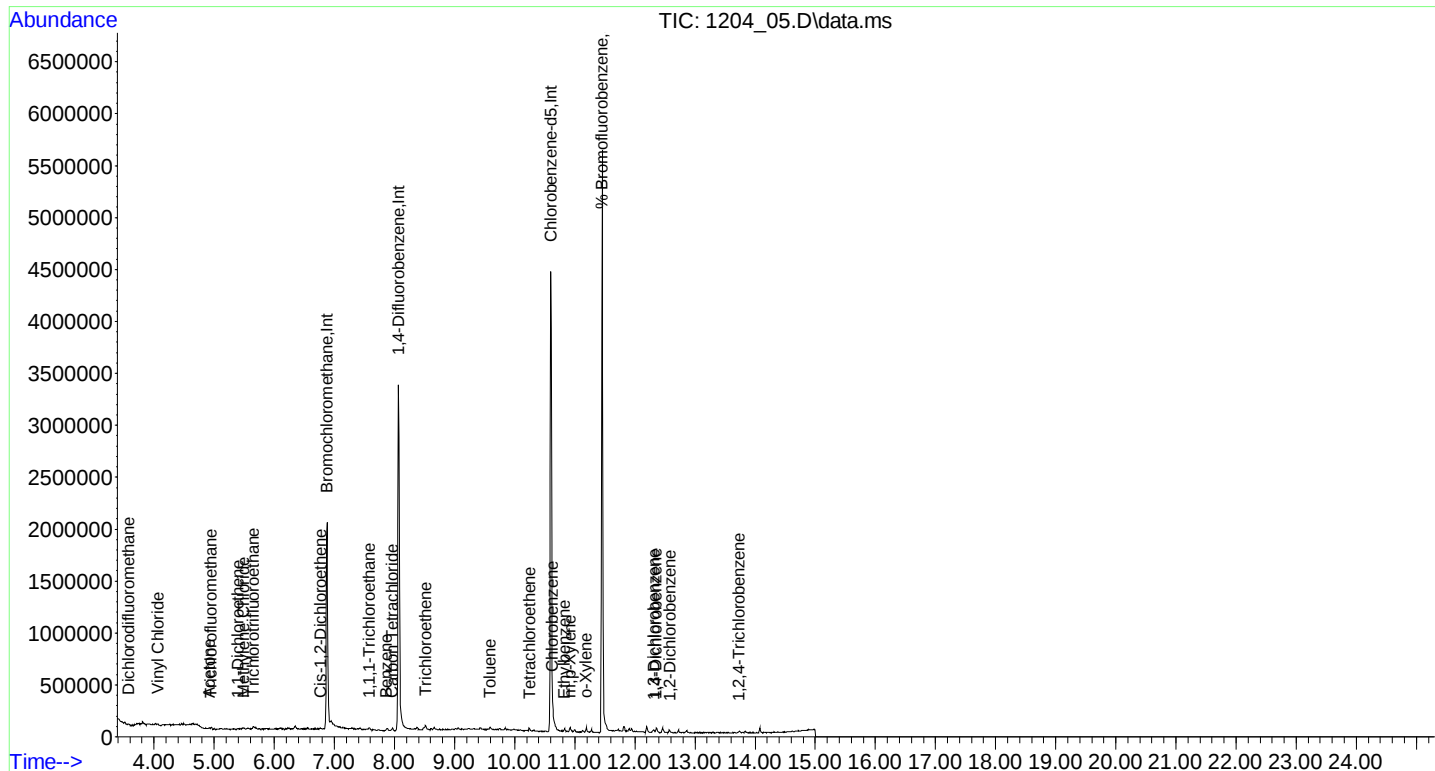
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	554440	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	2266463	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1161541	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	796147	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	2660685	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1210436	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1512002	9.500	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.00%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.583	85	16724	0.056	ppbv#	75
3) Vinyl Chloride	4.069	62	890	0.013	ppbv	81
4) Acetone	4.921	43	10686	0.090	ppbv	93
5) Trichlorofluoromethane	4.954	101	15792	0.059	ppbv	94
6) 1,1-Dichloroethene	5.400	61	7265	0.055	ppbv	95
7) Methylene Chloride	5.489	49	5559	0.065	ppbv#	77
8) Trichlorotrifluoroethane	5.656	101	9285	0.063	ppbv#	80
10) Cis-1,2-Dichloroethene	6.769	61	7538	0.067	ppbv#	61
12) 1,1,1-Trichloroethane	7.585	97	11702	0.060	ppbv	93
13) Benzene	7.873	78	12557	0.077	ppbv#	86
14) Carbon Tetrachloride	7.966	117	12558	0.057	ppbv	97
17) Trichloroethene	8.517	130	5669	0.067	ppbv#	84
18) Toluene	9.587	91	13585	0.063	ppbv	94
19) Tetrachloroethene	10.249	166	5656	0.051	ppbv	94
21) Chlorobenzene	10.631	112	9737	0.061	ppbv#	78
22) Ethylbenzene	10.828	91	15147	0.057	ppbv	88
23) m,p-Xylene	10.926	91	20758	0.102	ppbv	99
24) o-Xylene	11.192	91	12885	0.057	ppbv	96
26) 1,3-Dichlorobenzene	12.315	146	6899	0.044	ppbv#	84
27) 1,4-Dichlorobenzene	12.353	146	6983	0.046	ppbv	92
28) 1,2-Dichlorobenzene	12.581	146	7419	0.048	ppbv#	90
29) 1,2,4-Trichlorobenzene	13.735	180	4601	0.043	ppbv#	88
31) Vinyl Chloride(sim)	3.910	62	4128m	0.052	ppbv	89
35) Benzene(sim)	7.873	78	12557	0.069	ug/l#	89
36) Carbon Tetrachloride(sim)	7.969	117	15098	0.050	ppbv	97
45) Trichloroethene(sim)	8.517	130	5021	0.051	ppbv#	65
47) Tetrachloroethene(sim)	10.249	166	5656	0.050	ppbv	94
49) m,p-Xylene(sim)	10.926	91	23088	0.099	ppbv#	93
51) 1,4-Dichlorobenzene(sim)	12.353	146	6983	0.046	ppbv	92

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_05.D
 Acq On : 03 Dec 2019 09:40 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:35 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:15:43 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_06.D
 Acq On : 03 Dec 2019 10:16 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:52 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:13:34 2019
 Response via : Initial Calibration

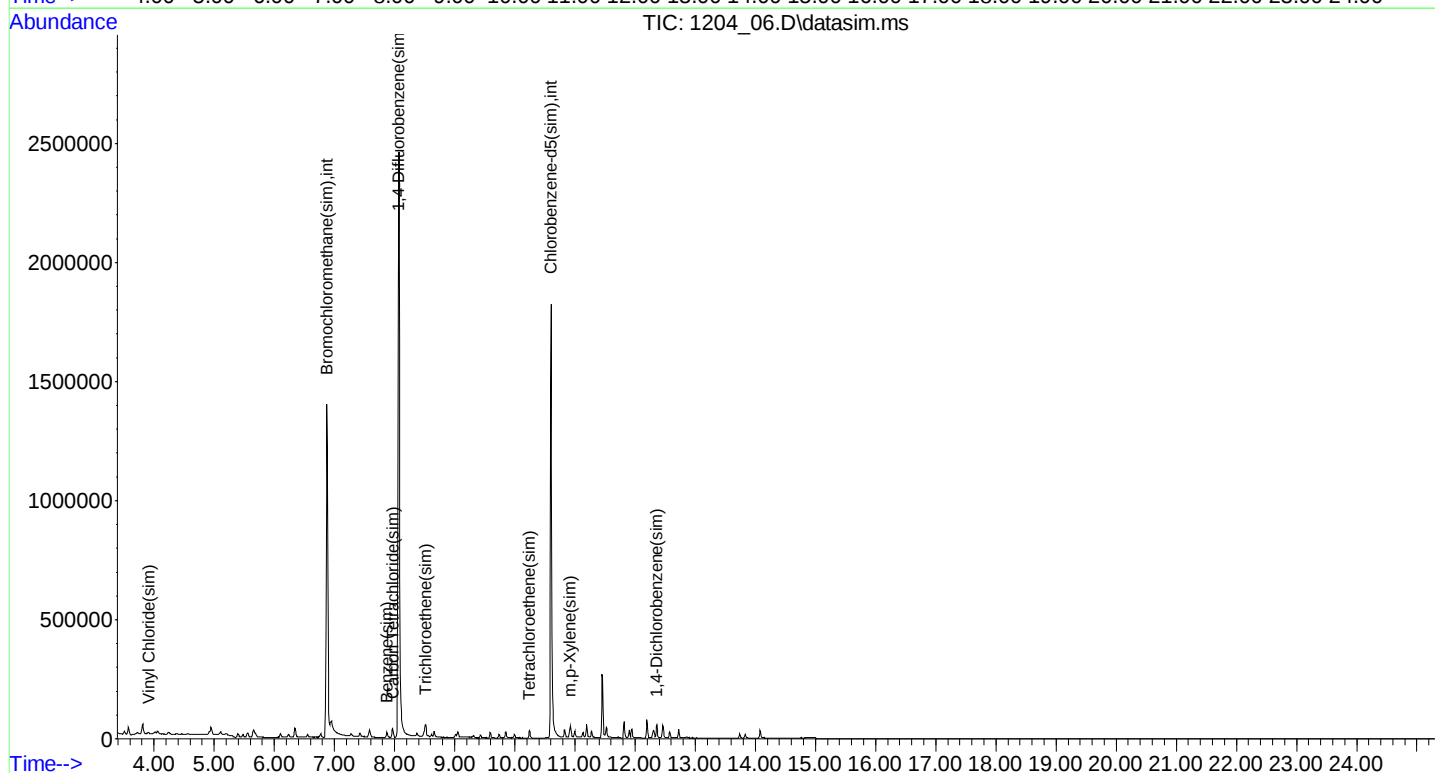
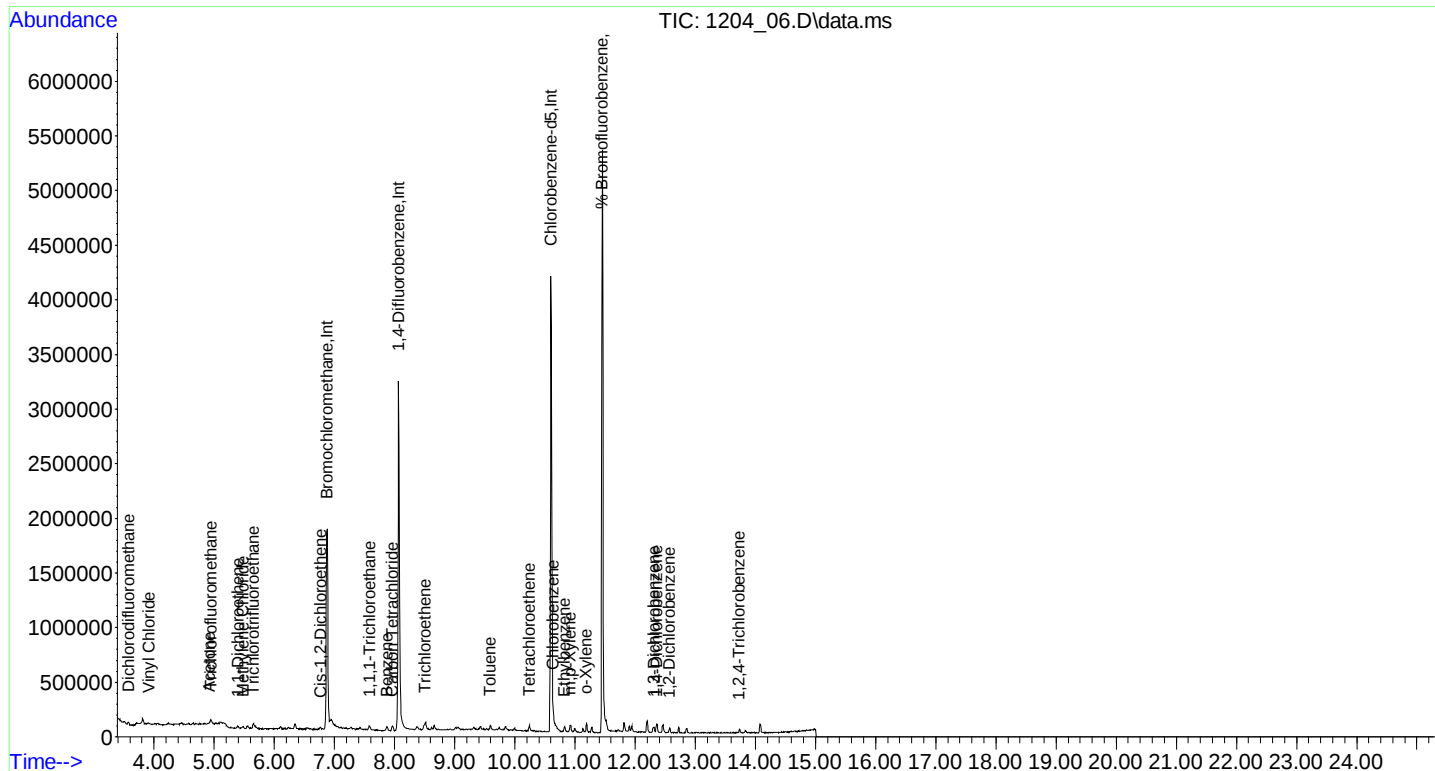
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	530846	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.067	114	2124833	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1090974	10.000	ng	0.00
30) Bromochloromethane(sim)	6.875	130	741831	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2471644	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1137848	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1452079	9.713	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.10%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.574	85	30339	0.107	ppbv#	92
3) Vinyl Chloride	3.915	62	7326	0.111	ppbv	84
4) Acetone	4.921	43	14342	0.126	ppbv	94
5) Trichlorofluoromethane	4.945	101	28216	0.110	ppbv#	93
6) 1,1-Dichloroethene	5.394	61	14037	0.111	ppbv#	86
7) Methylene Chloride	5.483	49	9259	0.113	ppbv	89
8) Trichlorotrifluoroethane	5.650	101	16210	0.114	ppbv	95
10) Cis-1,2-Dichloroethene	6.769	61	8616	0.080	ppbv#	83
12) 1,1,1-Trichloroethane	7.585	97	22773	0.121	ppbv	89
13) Benzene	7.873	78	19731	0.126	ppbv	96
14) Carbon Tetrachloride	7.966	117	23774	0.112	ppbv	98
17) Trichloroethene	8.508	130	7679	0.096	ppbv	89
18) Toluene	9.594	91	20645	0.103	ppbv	96
19) Tetrachloroethene	10.242	166	10543	0.102	ppbv#	87
21) Chlorobenzene	10.631	112	16021	0.107	ppbv#	10
22) Ethylbenzene	10.828	91	27037	0.108	ppbv	97
23) m,p-Xylene	10.919	91	37658	0.196	ppbv	95
24) o-Xylene	11.192	91	20547	0.097	ppbv#	86
26) 1,3-Dichlorobenzene	12.315	146	12759	0.086	ppbv	94
27) 1,4-Dichlorobenzene	12.353	146	12048	0.084	ppbv	93
28) 1,2-Dichlorobenzene	12.573	146	14276	0.097	ppbv#	93
29) 1,2,4-Trichlorobenzene	13.735	180	7377	0.074	ppbv	98
31) Vinyl Chloride(sim)	3.915	62	7326	0.099	ppbv#	84
35) Benzene(sim)	7.873	78	19731	0.116	ug/l	96
36) Carbon Tetrachloride(sim)	7.969	117	27322	0.096	ppbv	96
45) Trichloroethene(sim)	8.508	130	7563	0.083	ppbv	86
47) Tetrachloroethene(sim)	10.242	166	10637	0.102	ppbv#	86
49) m,p-Xylene(sim)	10.919	91	38844	0.176	ppbv	97
51) 1,4-Dichlorobenzene(sim)	12.353	146	12048	0.085	ppbv	93

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_06.D
 Acq On : 03 Dec 2019 10:16 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:19:52 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:13:34 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_07.D
 Acq On : 03 Dec 2019 10:54 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.5
 Lab ID : 0.5
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:13:11 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:13:00 2019
 Response via : Initial Calibration

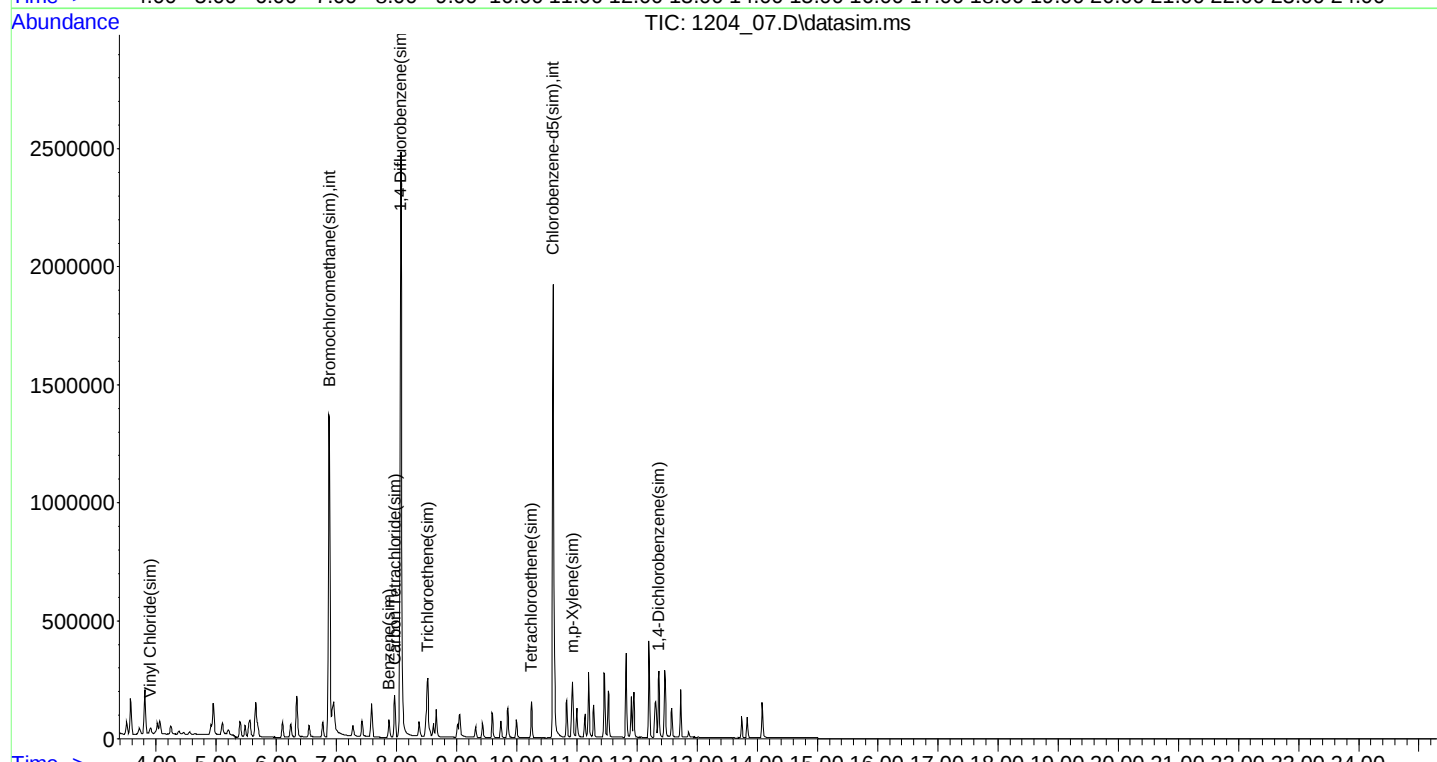
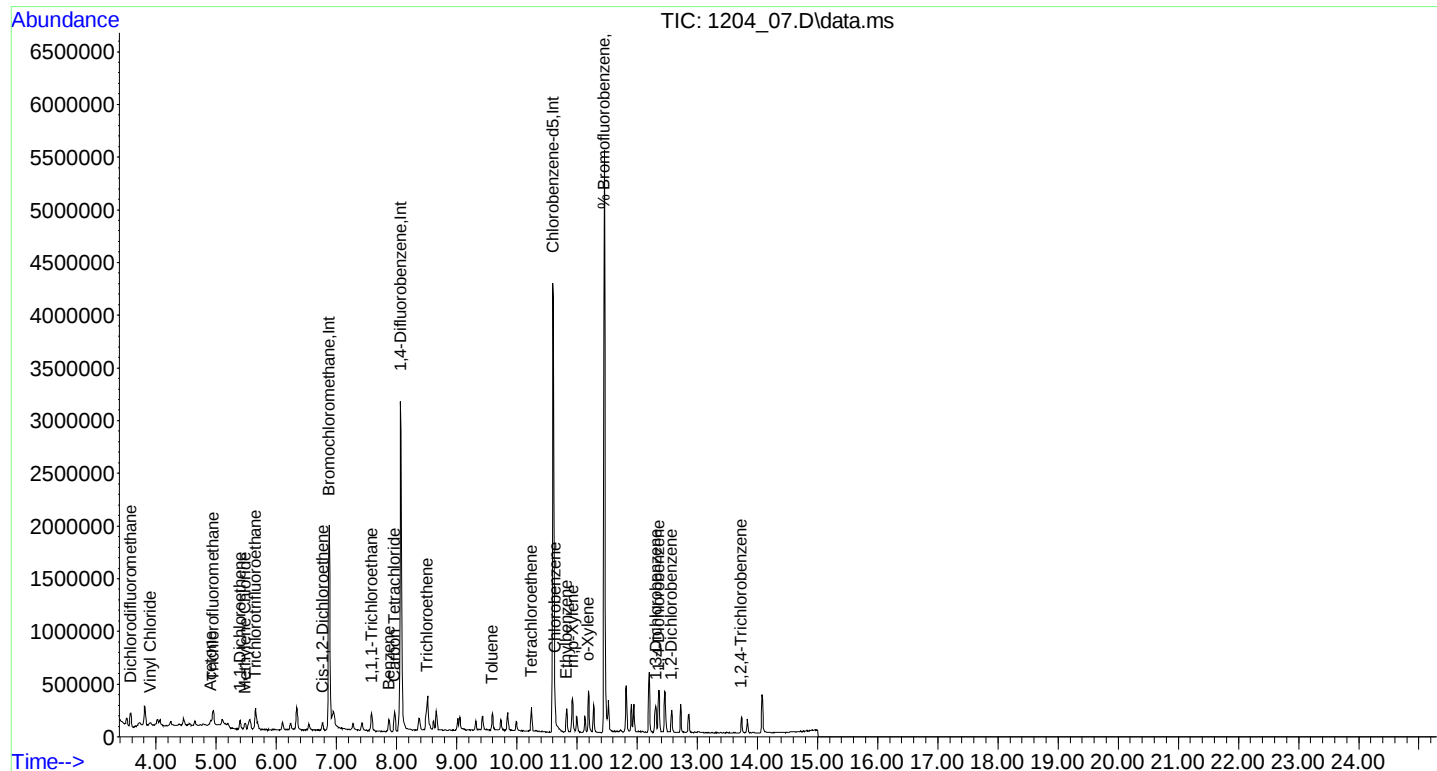
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	557370	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.067	114	2084353	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1115293	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	734649	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2454023	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1156422	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1492259	9.732	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.30%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.582	85	142437	0.479	ppbv	99
3) Vinyl Chloride	3.907	62	32348	0.466	ppbv	95
4) Acetone	4.913	43	54454	0.457	ppbv	96
5) Trichlorofluoromethane	4.953	101	124032	0.463	ppbv	99
6) 1,1-Dichloroethene	5.400	61	60101	0.453	ppbv	95
7) Methylene Chloride	5.483	49	40651	0.471	ppbv	98
8) Trichlorotrifluoroethane	5.656	101	73099	0.491	ppbv	97
10) Cis-1,2-Dichloroethene	6.768	61	50301	0.444	ppbv	97
12) 1,1,1-Trichloroethane	7.585	97	93903	0.477	ppbv	96
13) Benzene	7.873	78	67136	0.408	ppbv	97
14) Carbon Tetrachloride	7.966	117	102607	0.462	ppbv	98
17) Trichloroethene	8.508	130	36034	0.460	ppbv	94
18) Toluene	9.594	91	88726	0.451	ppbv	97
19) Tetrachloroethene	10.242	166	44947	0.445	ppbv	96
21) Chlorobenzene	10.630	112	75002	0.491	ppbv#	79
22) Ethylbenzene	10.828	91	118794	0.463	ppbv	98
23) m,p-Xylene	10.926	91	185888	0.948	ppbv	99
24) o-Xylene	11.192	91	105618	0.486	ppbv	97
26) 1,3-Dichlorobenzene	12.315	146	61233	0.406	ppbv	94
27) 1,4-Dichlorobenzene	12.353	146	54827	0.373	ppbv	97
28) 1,2-Dichlorobenzene	12.573	146	61007	0.407	ppbv	97
29) 1,2,4-Trichlorobenzene	13.735	180	35555	0.348	ppbv	96
31) Vinyl Chloride(sim)	3.907	62	32348	0.441	ppbv	96
35) Benzene(sim)	7.873	78	67136	0.398	ug/l	97
36) Carbon Tetrachloride(sim)	7.969	117	126778	0.451	ppbv	100
45) Trichloroethene(sim)	8.508	130	36166	0.398	ppbv	95
47) Tetrachloroethene(sim)	10.242	166	44917	0.434	ppbv	97
49) m,p-Xylene(sim)	10.926	91	189193	0.845	ppbv	99
51) 1,4-Dichlorobenzene(sim)	12.353	146	54827	0.378	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_07.D
 Acq On : 03 Dec 2019 10:54 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.5
 Lab ID : 0.5
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:13:11 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:13:00 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_08.D
 Acq On : 03 Dec 2019 11:33 pm
 Operator : CORTEX\ms
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:12:43 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:12:33 2019
 Response via : Initial Calibration

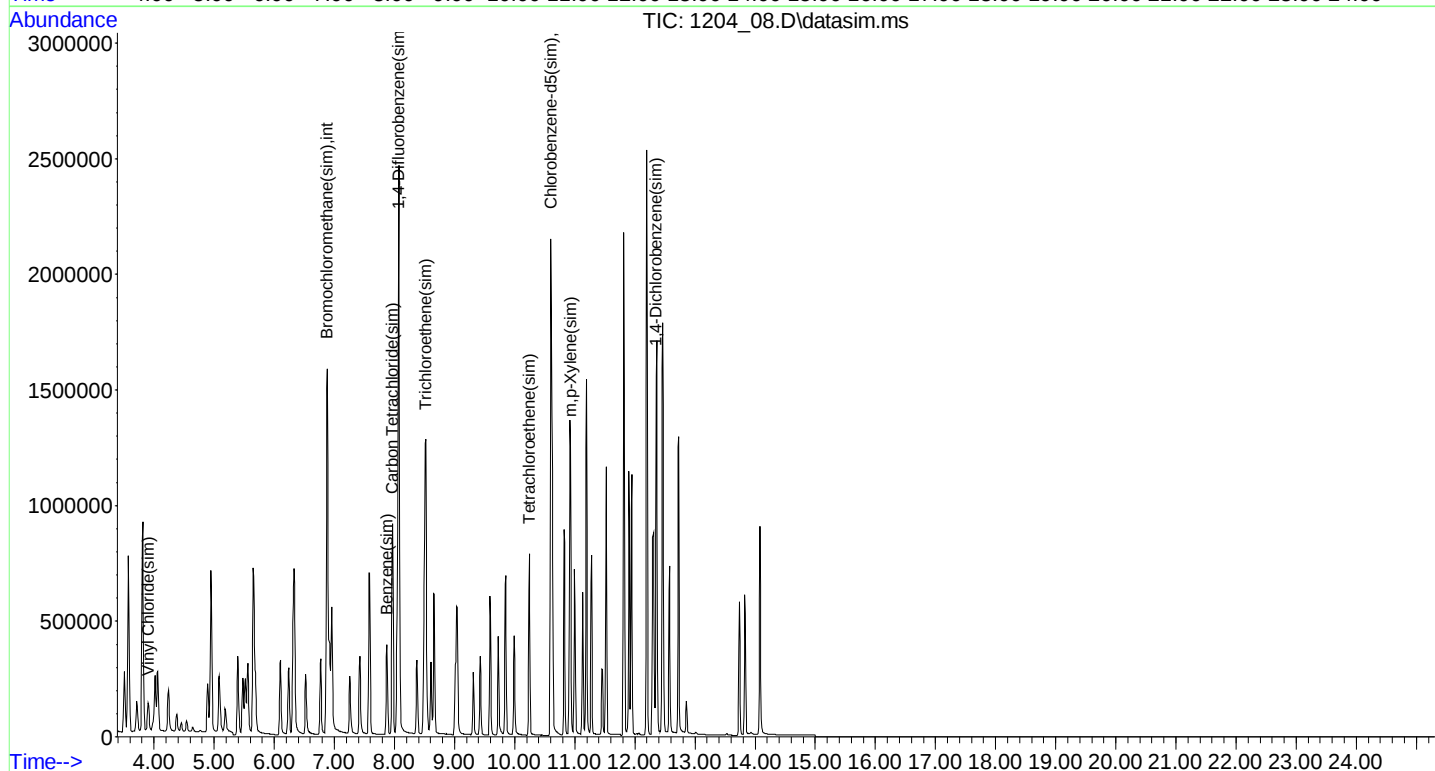
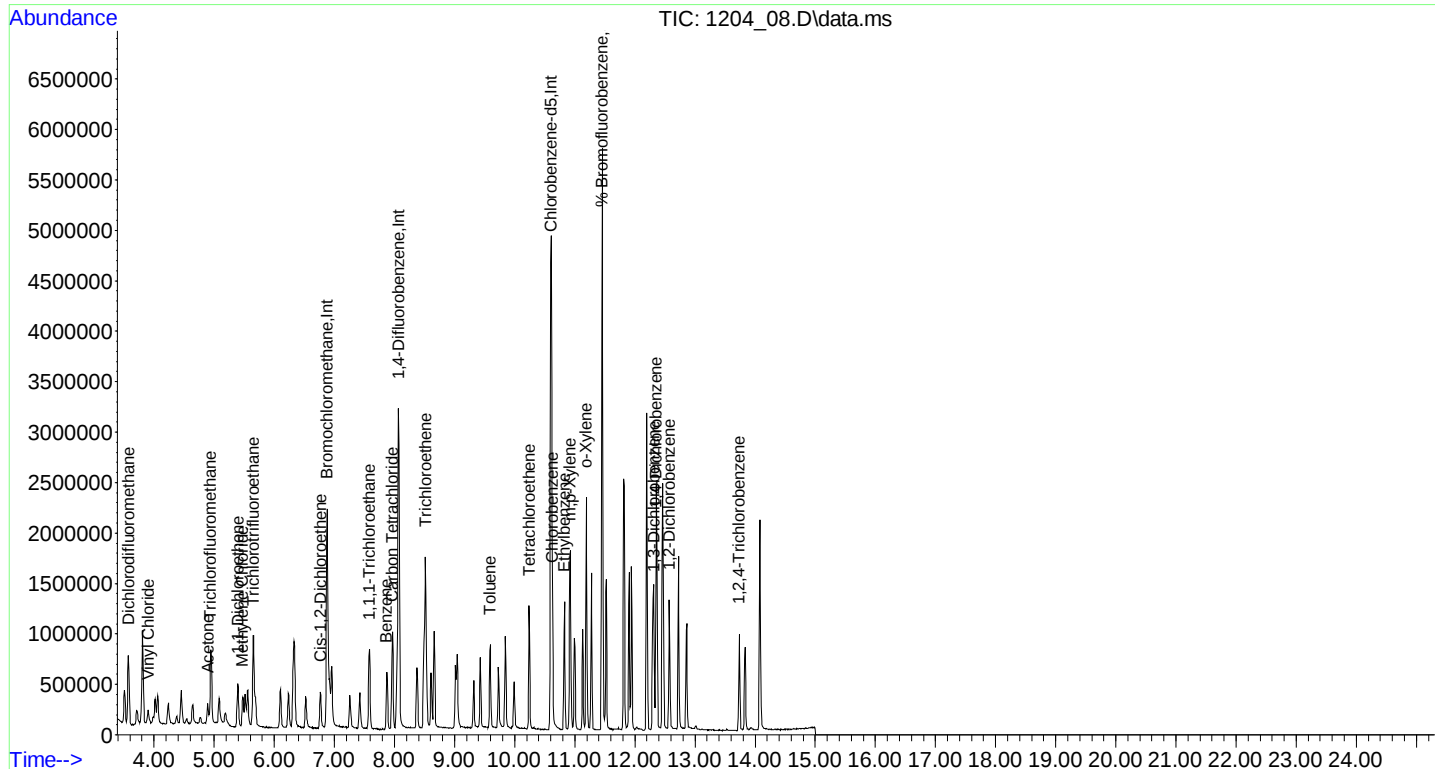
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	528252	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1980348	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1098529	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	701296	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	2359855	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1143156	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1526908	10.128	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.30%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.575	85	681226	2.415	ppbv	99
3) Vinyl Chloride	3.907	62	152464	2.319	ppbv	98
4) Acetone	4.897	43	272552	2.415	ppbv	97
5) Trichlorofluoromethane	4.945	101	621585	2.446	ppbv	100
6) 1,1-Dichloroethene	5.394	61	307784	2.449	ppbv	99
7) Methylene Chloride	5.477	49	201486	2.465	ppbv	96
8) Trichlorotrifluoroethane	5.650	101	352420	2.497	ppbv	99
10) Cis-1,2-Dichloroethene	6.769	61	263154	2.450	ppbv	97
12) 1,1,1-Trichloroethane	7.585	97	461041	2.470	ppbv	99
13) Benzene	7.873	78	317373	2.036	ppbv	100
14) Carbon Tetrachloride	7.966	117	522619	2.481	ppbv	97
17) Trichloroethene	8.517	130	182957	2.457	ppbv	99
18) Toluene	9.594	91	457736	2.449	ppbv	98
19) Tetrachloroethene	10.242	166	234819	2.446	ppbv	98
21) Chlorobenzene	10.631	112	375128	2.495	ppbv	97
22) Ethylbenzene	10.828	91	651140	2.578	ppbv	99
23) m,p-Xylene	10.926	91	1048594	5.432	ppbv	99
24) o-Xylene	11.192	91	541713	2.533	ppbv	99
26) 1,3-Dichlorobenzene	12.315	146	346424	2.331	ppbv	98
27) 1,4-Dichlorobenzene	12.353	146	338584	2.338	ppbv	99
28) 1,2-Dichlorobenzene	12.573	146	356169	2.414	ppbv	99
29) 1,2,4-Trichlorobenzene	13.735	180	208098	2.066	ppbv	97
31) Vinyl Chloride(sim)	3.907	62	152464	2.179	ppbv	98
35) Benzene(sim)	7.873	78	317373	1.970	ug/l	100
36) Carbon Tetrachloride(sim)	7.969	117	646220	2.409	ppbv	100
45) Trichloroethene(sim)	8.517	130	182957	2.096	ppbv	99
47) Tetrachloroethene(sim)	10.242	166	234706	2.360	ppbv	97
49) m,p-Xylene(sim)	10.926	91	1059253	4.785	ppbv	99
51) 1,4-Dichlorobenzene(sim)	12.353	146	338584	2.364	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_08.D
 Acq On : 03 Dec 2019 11:33 pm
 Operator : CORTEX\ms
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:12:43 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:12:33 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_09.D
 Acq On : 04 Dec 2019 12:09 am
 Operator : CORTEX\ms
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:09:42 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:09:14 2019
 Response via : Initial Calibration

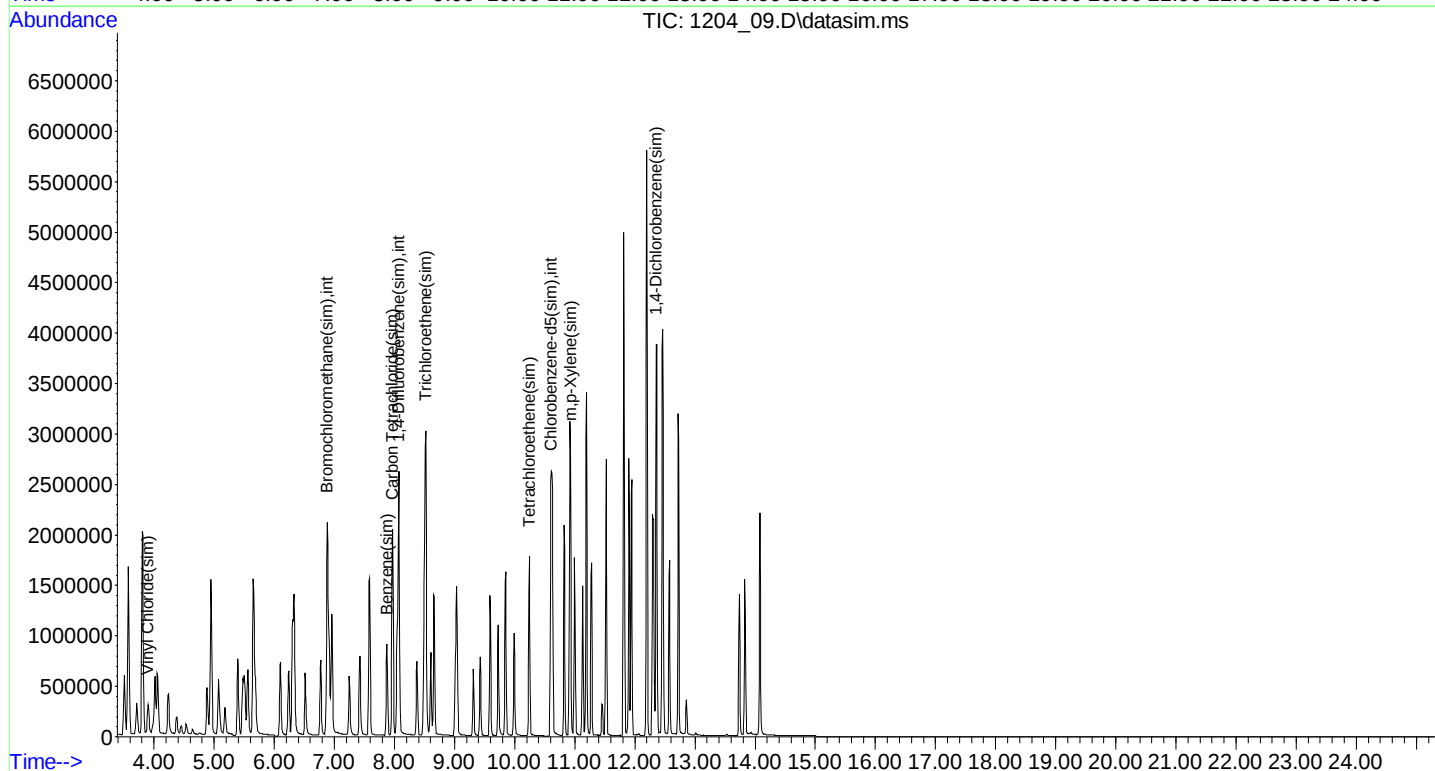
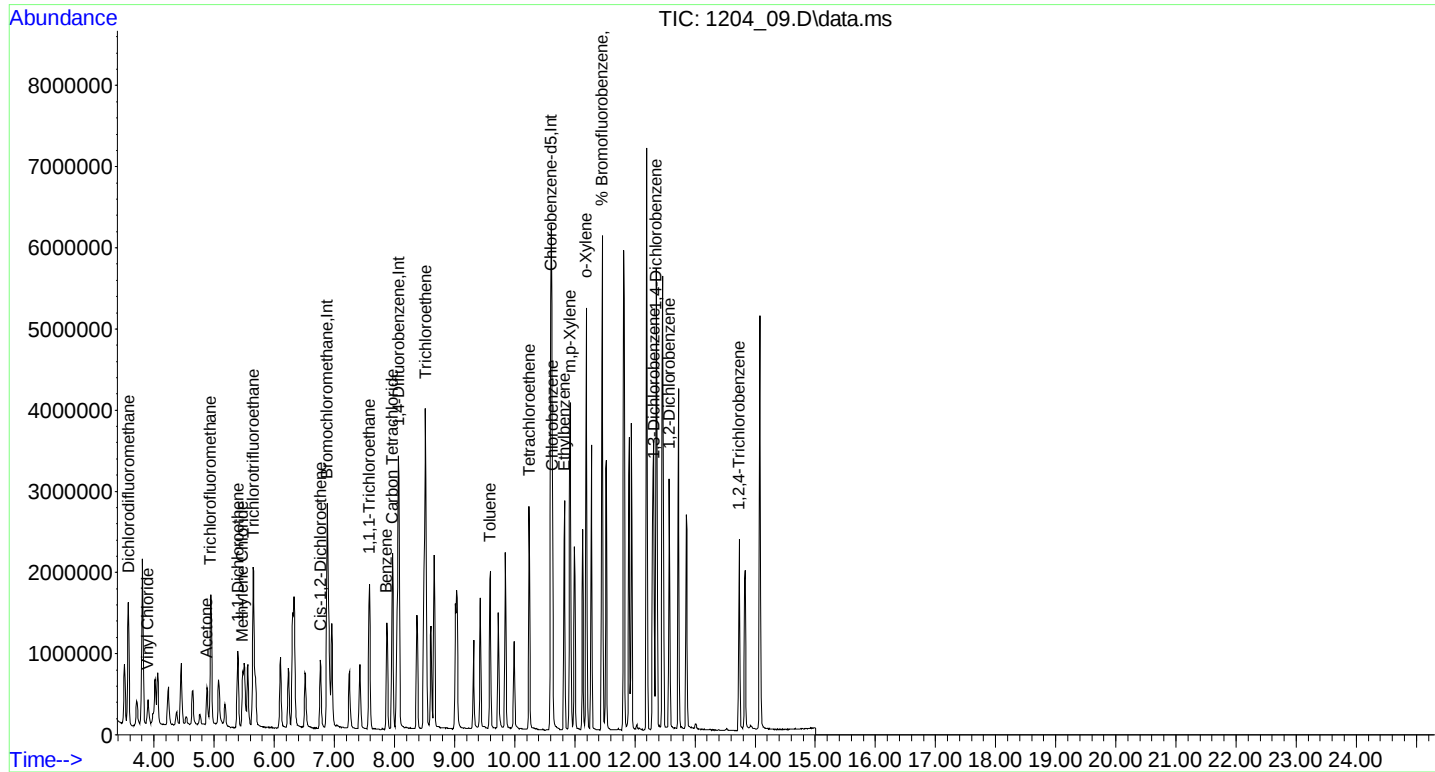
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	520550	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	2071958	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1160085	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	708232	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2411728	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1197834	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1617434	10.240	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.40%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.574	85	1523905	5.482	ppbv	99
3) Vinyl Chloride	3.899	62	342993	5.293	ppbv	65
4) Acetone	4.880	43	606162	5.450	ppbv#	51
5) Trichlorofluoromethane	4.945	101	1374837	5.490	ppbv	99
6) 1,1-Dichloroethene	5.394	61	674177	5.444	ppbv	97
7) Methylene Chloride	5.477	49	449796	5.585	ppbv	98
8) Trichlorotrifluoroethane	5.650	101	758732	5.455	ppbv	99
10) Cis-1,2-Dichloroethene	6.769	61	582960	5.509	ppbv	98
12) 1,1,1-Trichloroethane	7.585	97	999754	5.435	ppbv	99
13) Benzene	7.873	78	736173	4.794	ppbv	98
14) Carbon Tetrachloride	7.966	117	1136352	5.475	ppbv	98
17) Trichloroethene	8.516	130	401744	5.156	ppbv	97
18) Toluene	9.594	91	1056821	5.403	ppbv	98
19) Tetrachloroethene	10.242	166	514050	5.117	ppbv	99
21) Chlorobenzene	10.631	112	882788	5.561	ppbv	85
22) Ethylbenzene	10.828	91	1480943	5.553	ppbv	99
23) m,p-Xylene	10.926	91	2404178	11.793	ppbv	98
24) o-Xylene	11.192	91	1249121	5.531	ppbv	99
26) 1,3-Dichlorobenzene	12.315	146	852961	5.434	ppbv	99
27) 1,4-Dichlorobenzene	12.353	146	824847	5.394	ppbv	99
28) 1,2-Dichlorobenzene	12.573	146	852182	5.469	ppbv	97
29) 1,2,4-Trichlorobenzene	13.735	180	528415	4.968	ppbv	98
31) Vinyl Chloride(sim)	3.899	62	342993	4.853	ppbv	97
35) Benzene(sim)	7.876	78	957472m	5.884	ug/l	100
36) Carbon Tetrachloride(sim)	7.969	117	1437516	5.306	ppbv	98
45) Trichloroethene(sim)	8.516	130	402296	4.510	ppbv	99
47) Tetrachloroethene(sim)	10.242	166	513158	5.048	ppbv	96
49) m,p-Xylene(sim)	10.926	91	2424342	10.452	ppbv	99
51) 1,4-Dichlorobenzene(sim)	12.353	146	824787	5.496	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_09.D
 Acq On : 04 Dec 2019 12:09 am
 Operator : CORTEX\ms
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:09:42 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:09:14 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_10.D
 Acq On : 04 Dec 2019 12:47 am
 Operator : CORTEX\ms
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:10:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:10:11 2019
 Response via : Initial Calibration

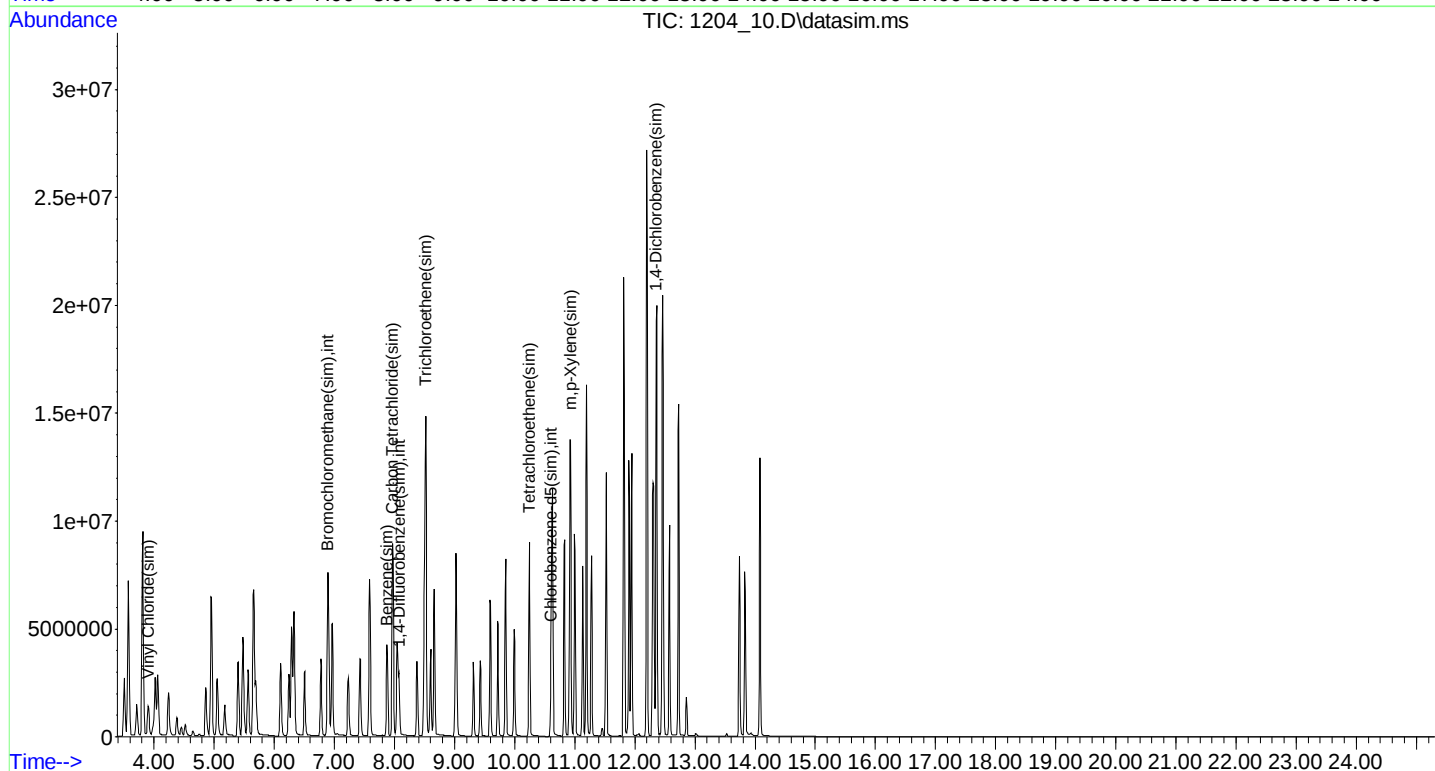
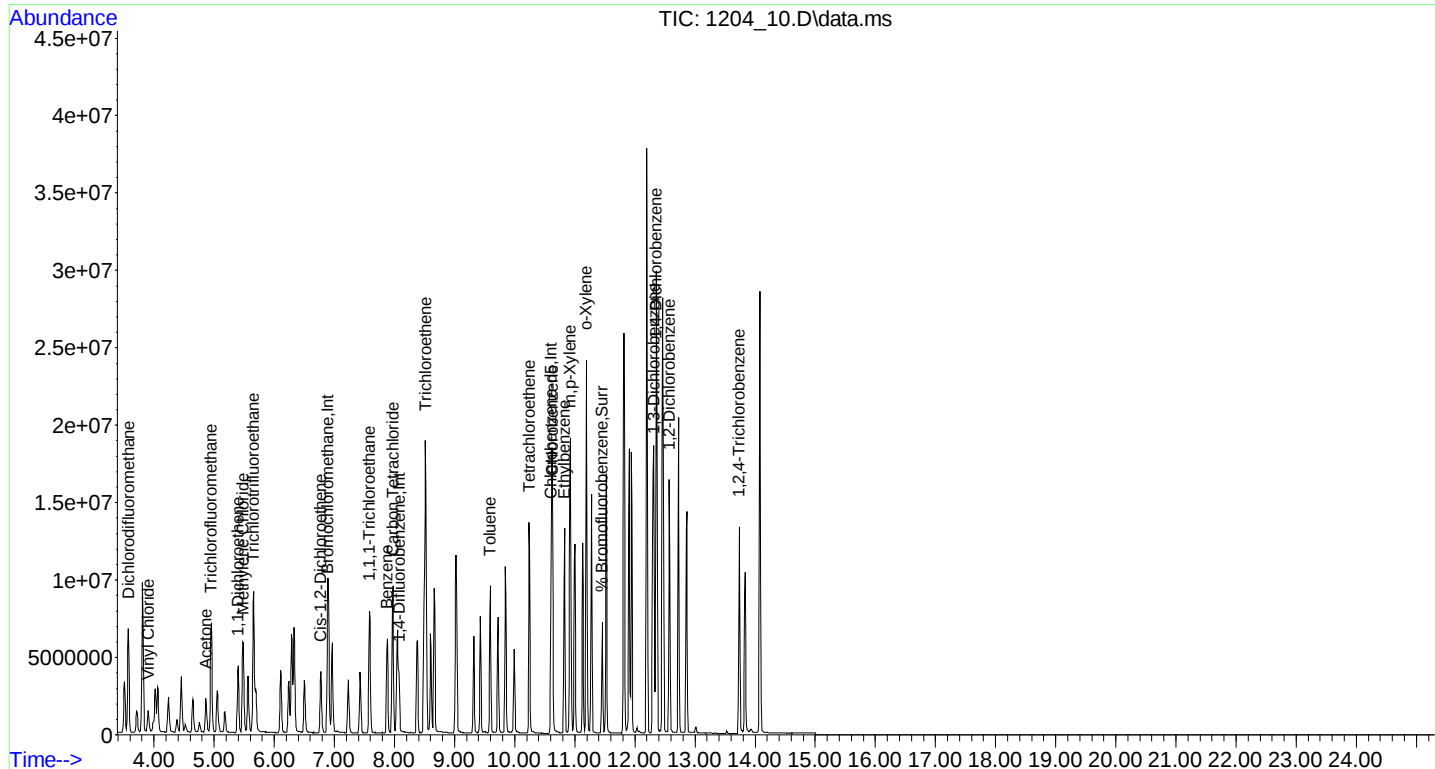
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.888	130	543868	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	2128255	10.000	ng	0.00
20) Chlorobenzene-d5	10.608	82	1295013	10.000	ng	0.00
30) Bromochloromethane(sim)	6.891	130	722580	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.079	114	2531015	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1410109	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1847662	10.233	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.30%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.574	85	6849564	23.585	ppbv	99
3) Vinyl Chloride	3.907	62	1637220	24.183	ppbv	99
4) Acetone	4.864	43	2885205	24.827	ppbv	100
5) Trichlorofluoromethane	4.953	101	6215531	23.755	ppbv	99
6) 1,1-Dichloroethene	5.400	61	3121180	24.124	ppbv	98
7) Methylene Chloride	5.483	49	2015291	23.950	ppbv	99
8) Trichlorotrifluoroethane	5.656	101	3386423	23.305	ppbv	97
10) Cis-1,2-Dichloroethene	6.774	61	2826470	25.564	ppbv	98
12) 1,1,1-Trichloroethane	7.585	97	4684643	24.375	ppbv	98
13) Benzene	7.881	78	3875669	24.155	ppbv	99
14) Carbon Tetrachloride	7.974	117	5477079	25.256	ppbv	98
17) Trichloroethene	8.516	130	2033852	25.411	ppbv	96
18) Toluene	9.594	91	5080222	25.286	ppbv	100
19) Tetrachloroethene	10.242	166	2791422	27.053	ppbv	94
21) Chlorobenzene	10.631	112	4259635	24.037	ppbv	96
22) Ethylbenzene	10.828	91	7149100	24.014	ppbv	99
23) m,p-Xylene	10.926	91	11099879	48.776	ppbv	97
24) o-Xylene	11.192	91	6043940	23.975	ppbv	98
26) 1,3-Dichlorobenzene	12.315	146	4788759	27.330	ppbv	94
27) 1,4-Dichlorobenzene	12.353	146	4894978	28.674	ppbv	96
28) 1,2-Dichlorobenzene	12.573	146	4709374	27.075	ppbv	97
29) 1,2,4-Trichlorobenzene	13.735	180	3409087	28.713	ppbv	98
31) Vinyl Chloride(sim)	3.907	62	1637220	22.705	ppbv	99
35) Benzene(sim)	7.881	78	3875669	23.343	ug/l	100
36) Carbon Tetrachloride(sim)	7.969	117	6587937	23.834	ppbv	99
45) Trichloroethene(sim)	8.516	130	2033852	21.724	ppbv	97
47) Tetrachloroethene(sim)	10.242	166	2797221	26.221	ppbv	94
49) m,p-Xylene(sim)	10.926	91	11237675	41.155	ppbv	97
51) 1,4-Dichlorobenzene(sim)	12.353	146	4894978	27.709	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_10.D
 Acq On : 04 Dec 2019 12:47 am
 Operator : CORTEX\ms
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:10:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:10:11 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_11.D
 Acq On : 04 Dec 2019 01:26 am
 Operator : CORTEX\ms
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:10:35 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:10:29 2019
 Response via : Initial Calibration

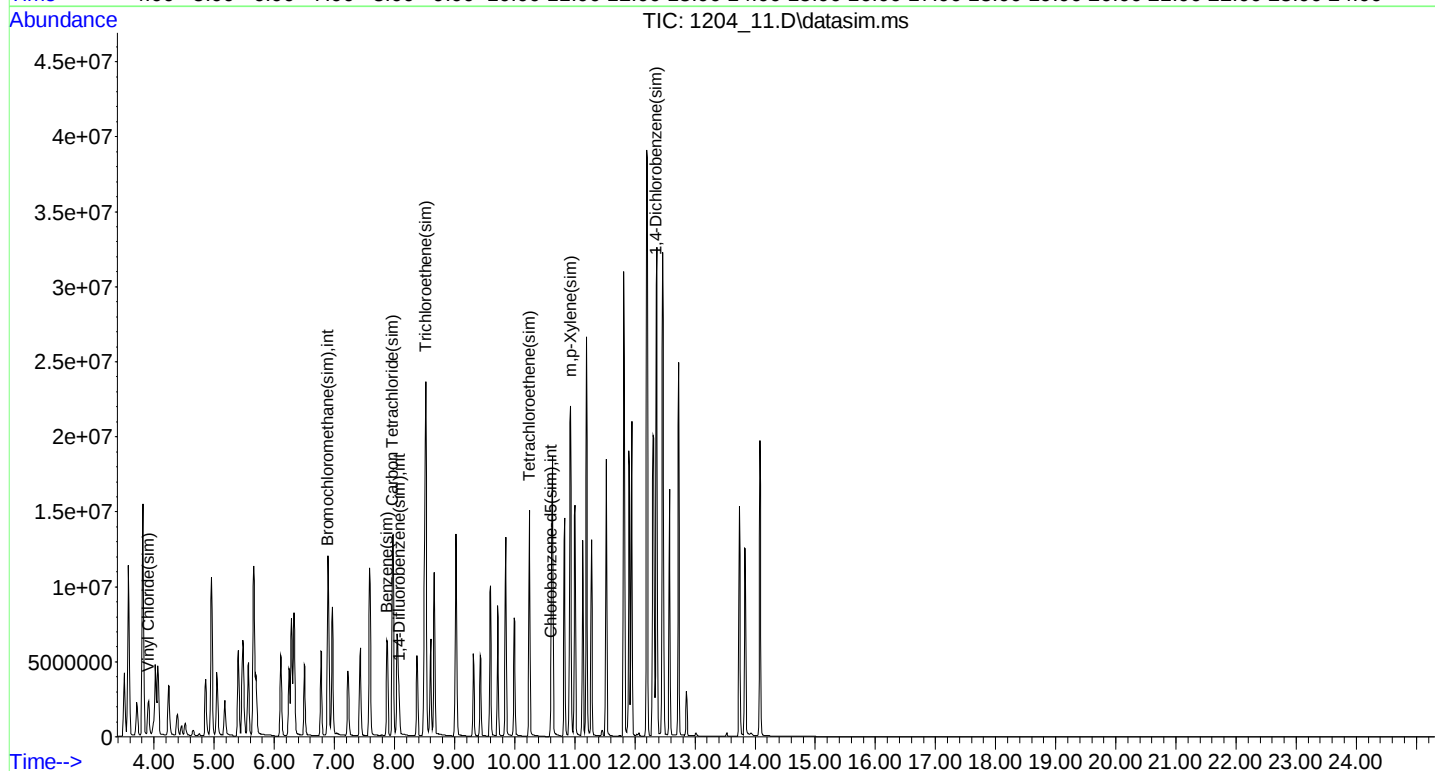
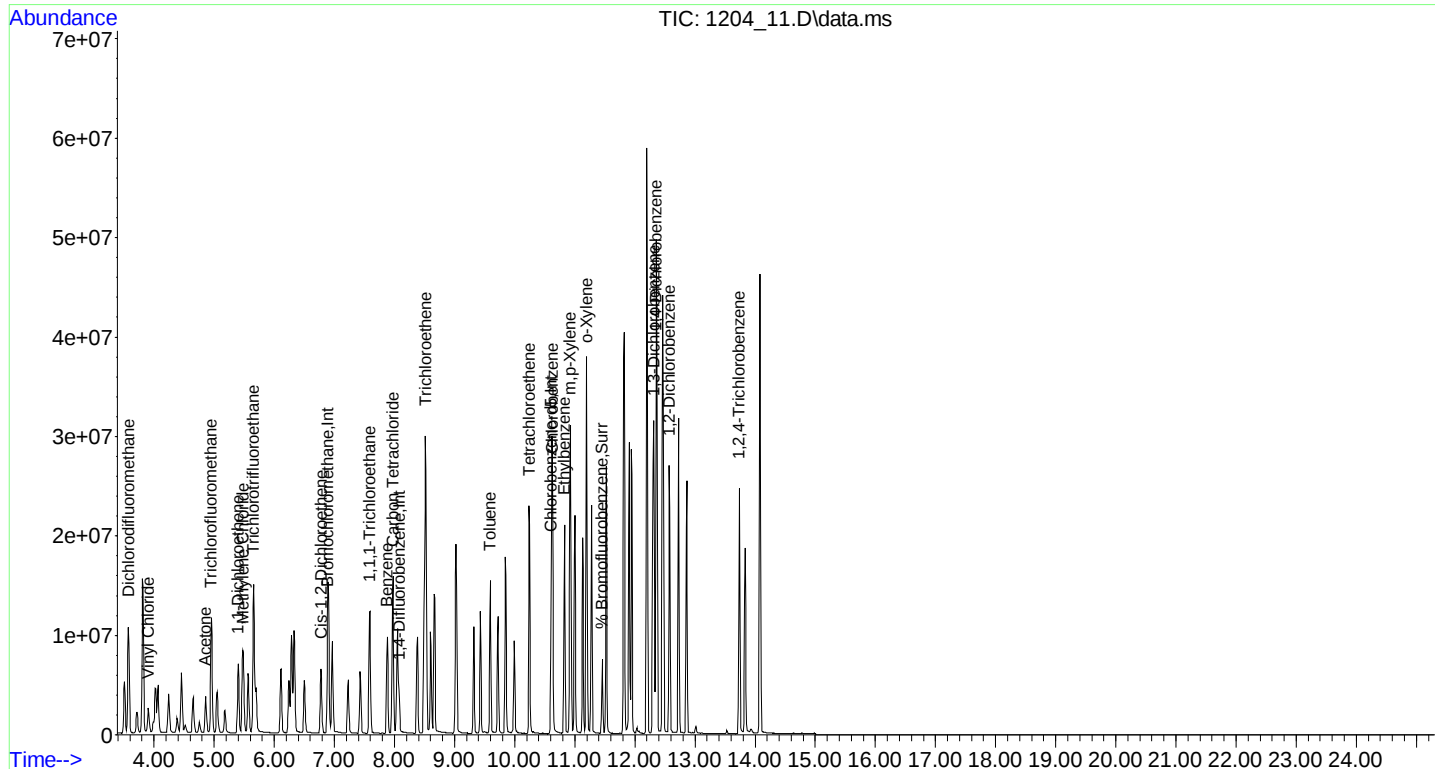
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.888	130	571060	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	2246141	10.000	ng	0.00
20) Chlorobenzene-d5	10.608	82	1444584	10.000	ng	0.00
30) Bromochloromethane(sim)	6.891	130	749139	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.079	114	2618324	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1572033	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1935676	9.500	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.00%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.574	85	10954674	35.924	ppbv	100
3) Vinyl Chloride	3.907	62	2778324	39.084	ppbv	100
4) Acetone	4.856	43	4849305	39.741	ppbv	99
5) Trichlorofluoromethane	4.953	101	10271619	37.387	ppbv	99
6) 1,1-Dichloroethene	5.400	61	5081385	37.405	ppbv	98
7) Methylene Chloride	5.483	49	3279585	37.119	ppbv	99
8) Trichlorotrifluoroethane	5.656	101	5578231	36.561	ppbv	97
10) Cis-1,2-Dichloroethene	6.779	61	4593452	39.567	ppbv	98
12) 1,1,1-Trichloroethane	7.593	97	7497691	37.154	ppbv	99
13) Benzene	7.881	78	6358132	37.740	ppbv	99
14) Carbon Tetrachloride	7.974	117	8906933	39.117	ppbv	98
17) Trichloroethene	8.517	130	3475528	41.144	ppbv	99
18) Toluene	9.594	91	8106462	38.232	ppbv	98
19) Tetrachloroethene	10.242	166	5034472	46.230	ppbv	98
21) Chlorobenzene	10.631	112	7110890	35.972	ppbv	98
22) Ethylbenzene	10.828	91	11111238	33.458	ppbv	96
23) m,p-Xylene	10.926	91	16799561	66.179	ppbv	92
24) o-Xylene	11.199	91	9864378	35.078	ppbv	97
26) 1,3-Dichlorobenzene	12.315	146	8845424	45.255	ppbv	98
27) 1,4-Dichlorobenzene	12.353	146	8313698	43.658	ppbv	95
28) 1,2-Dichlorobenzene	12.573	146	8292990	42.741	ppbv	99
29) 1,2,4-Trichlorobenzene	13.735	180	6797904	51.326	ppbv	99
31) Vinyl Chloride(sim)	3.907	62	2778324	37.163	ppbv	100
35) Benzene(sim)	7.881	78	6358132	36.937	ug/l	99
36) Carbon Tetrachloride(sim)	7.969	117	10434433	36.411	ppbv	99
45) Trichloroethene(sim)	8.517	130	3496714	36.104	ppbv	98
47) Tetrachloroethene(sim)	10.242	166	5034603	45.620	ppbv	98
49) m,p-Xylene(sim)	10.926	91	17058717	56.038	ppbv#	92
51) 1,4-Dichlorobenzene(sim)	12.353	146	8313698	42.214	ppbv	95

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_11.D
 Acq On : 04 Dec 2019 01:26 am
 Operator : CORTEX\ms
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:10:35 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:10:29 2019
 Response via : Initial Calibration



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_13.D
 Acq On : 04 Dec 2019 02:38 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE
 Lab ID : 1ppb
 ALS Vial : 1 Sample Multiplier: 1

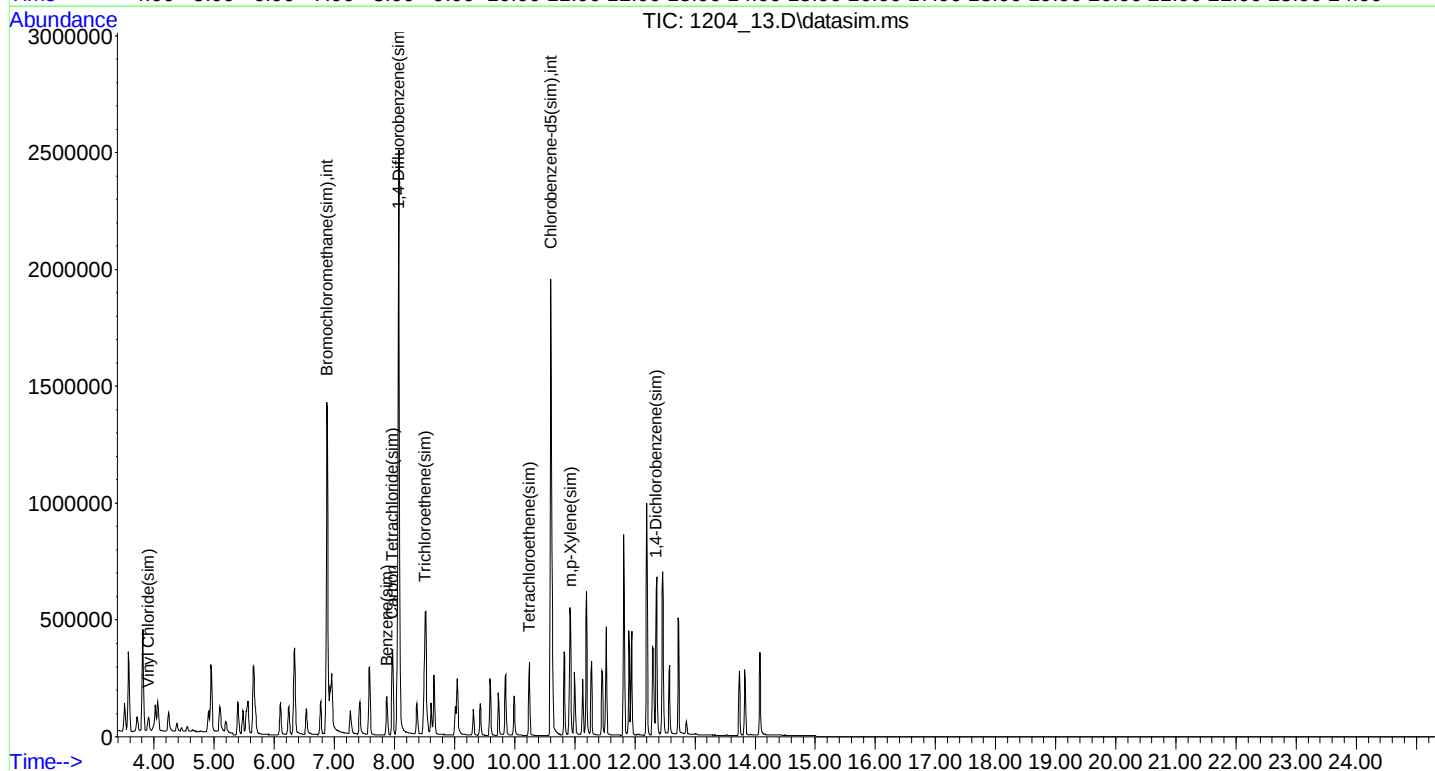
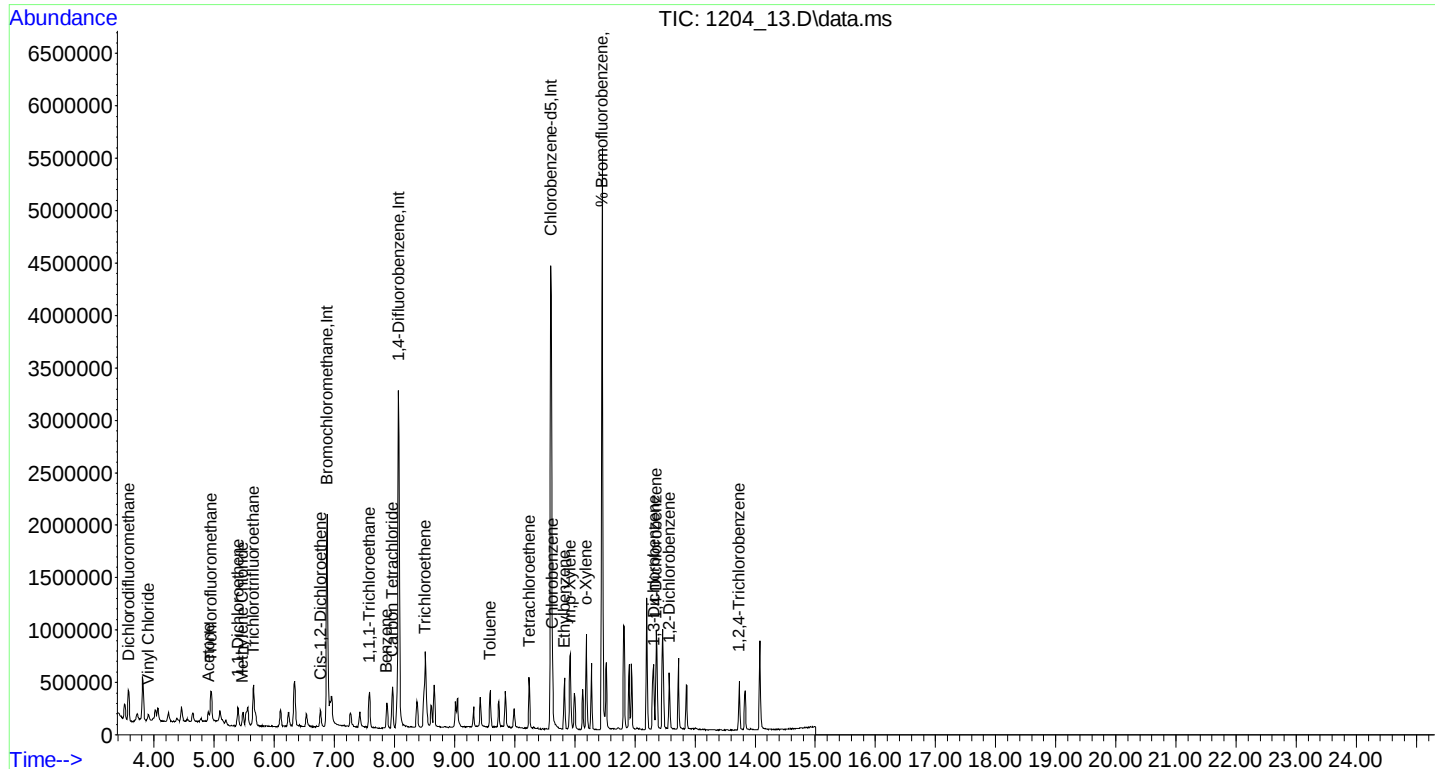
Quant Time: Dec 04 11:30:58 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	540886	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.067	114	2089883	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1118479	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	720672	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2462432	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1148197	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1520479	9.921	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.574	85	307680	1.065	ppbv	99
3) Vinyl Chloride	3.907	62	69157	1.027	ppbv	96
4) Acetone	4.905	43	115679	1.001	ppbv	100
5) Trichlorofluoromethane	4.953	101	261634	1.005	ppbv	99
6) 1,1-Dichloroethene	5.394	61	128820	1.001	ppbv	95
7) Methylene Chloride	5.477	49	84949	1.015	ppbv	98
8) Trichlorotrifluoroethane	5.656	101	148326	1.026	ppbv	99
10) Cis-1,2-Dichloroethene	6.768	61	109639	0.997	ppbv	95
12) 1,1,1-Trichloroethane	7.585	97	188723	0.987	ppbv	99
13) Benzene	7.873	78	139465	0.874	ppbv	98
14) Carbon Tetrachloride	7.966	117	211093	0.979	ppbv	100
17) Trichloroethene	8.508	130	77406	0.985	ppbv	98
18) Toluene	9.594	91	201148	1.020	ppbv	97
19) Tetrachloroethene	10.242	166	92835	0.916	ppbv	97
21) Chlorobenzene	10.630	112	157666	1.030	ppbv	87
22) Ethylbenzene	10.828	91	271054	1.054	ppbv	98
23) m,p-Xylene	10.926	91	433783	2.207	ppbv	99
24) o-Xylene	11.192	91	228108	1.048	ppbv	99
26) 1,3-Dichlorobenzene	12.315	146	147173	0.973	ppbv	99
27) 1,4-Dichlorobenzene	12.353	146	145480	0.987	ppbv	98
28) 1,2-Dichlorobenzene	12.573	146	153393	1.021	ppbv	97
29) 1,2,4-Trichlorobenzene	13.735	180	100609	0.981	ppbv	99
31) Vinyl Chloride(sim)	3.907	62	69157	0.962	ppbv	96
35) Benzene(sim)	7.873	78	139465	0.842	ug/l	98
36) Carbon Tetrachloride(sim)	7.969	117	260948	0.947	ppbv	99
45) Trichloroethene(sim)	8.508	130	77406	0.850	ppbv	98
47) Tetrachloroethene(sim)	10.242	166	93054	0.897	ppbv	98
49) m,p-Xylene(sim)	10.926	91	438598	1.973	ppbv	99
51) 1,4-Dichlorobenzene(sim)	12.353	146	145480	1.011	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_13.D
Acq On : 04 Dec 2019 02:38 am
Operator : CORTEX\ms
Client ID : BFB TUNE
Lab ID : 1ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:30:58 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:30:23 2019
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_14.D
 Acq On : 04 Dec 2019 03:14 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:11:34 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:11:28 2019
 Response via : Initial Calibration

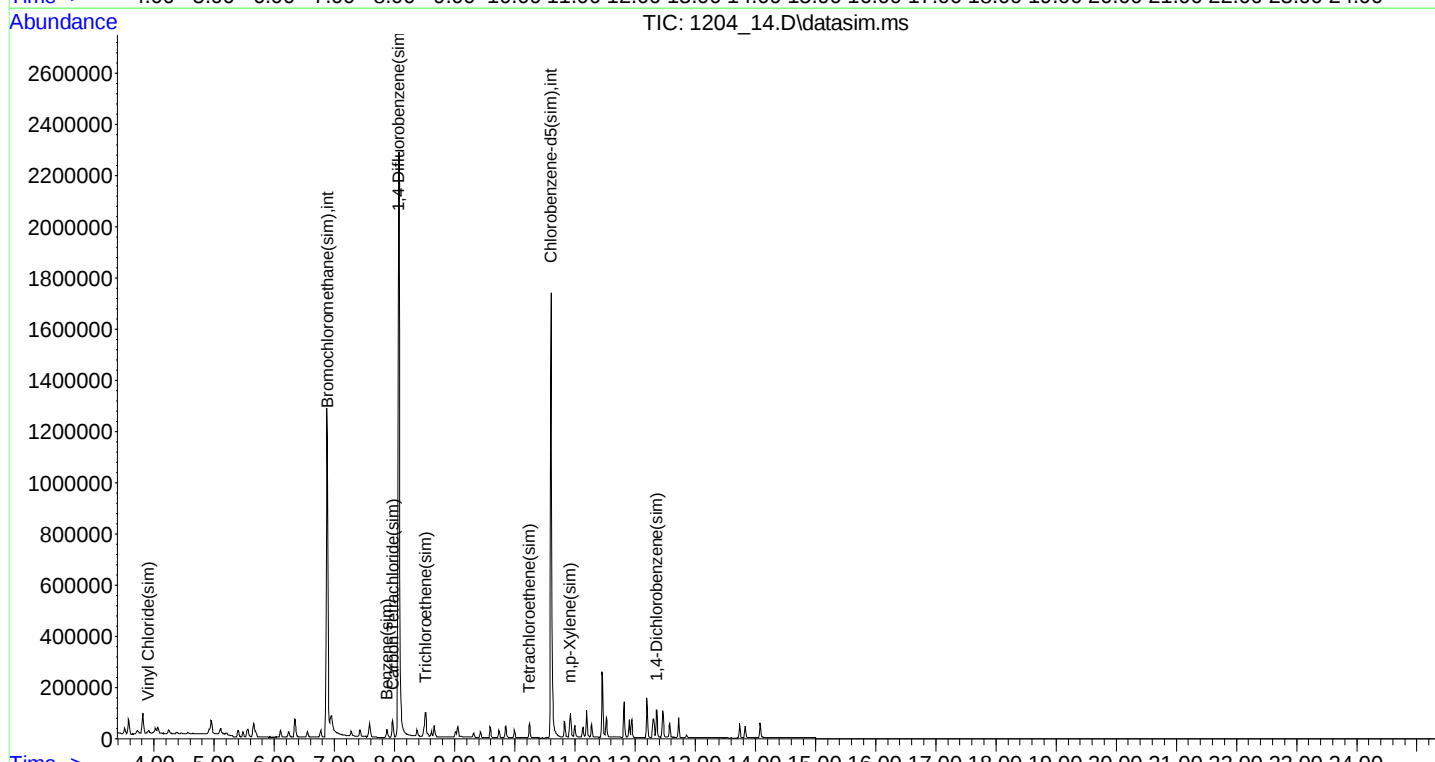
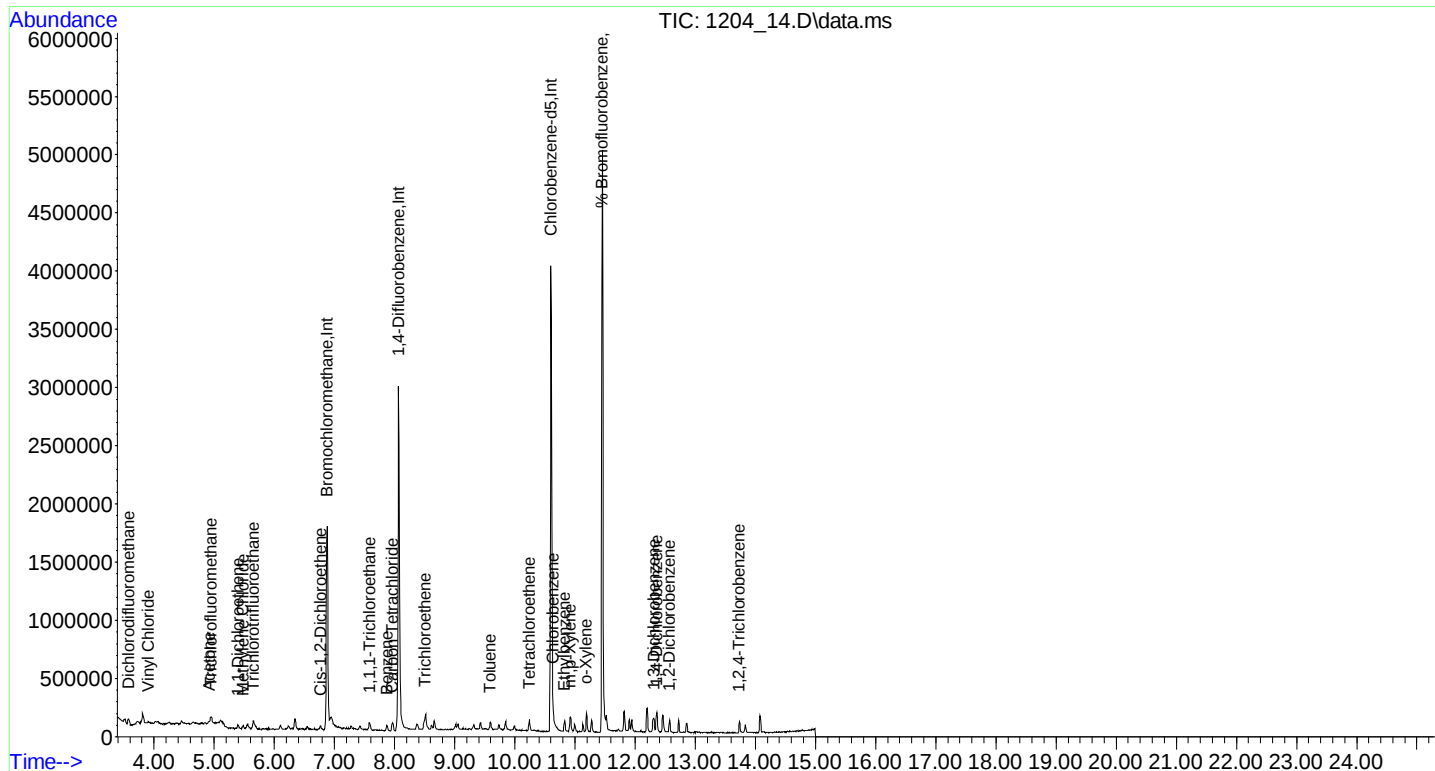
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	495730	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	1930071	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1057961	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	660048	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	2275231	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1071905	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1391273	9.532	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.30%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.575	85	57048	0.216	ppbv	95
3) Vinyl Chloride	3.907	62	13792	0.224	ppbv	91
4) Acetone	4.921	43	23204	0.219	ppbv#	24
5) Trichlorofluoromethane	4.945	101	50340	0.211	ppbv#	92
6) 1,1-Dichloroethene	5.400	61	25911	0.220	ppbv	95
7) Methylene Chloride	5.483	49	16181	0.211	ppbv	96
8) Trichlorotrifluoroethane	5.650	101	28086	0.212	ppbv	98
10) Cis-1,2-Dichloroethene	6.769	61	18702	0.186	ppbv	95
12) 1,1,1-Trichloroethane	7.585	97	36927	0.211	ppbv	99
13) Benzene	7.873	78	26395	0.180	ppbv	93
14) Carbon Tetrachloride	7.966	117	38617	0.195	ppbv	97
17) Trichloroethene	8.508	130	14811	0.204	ppbv	91
18) Toluene	9.594	91	37042	0.203	ppbv	98
19) Tetrachloroethene	10.242	166	18026	0.193	ppbv	97
21) Chlorobenzene	10.631	112	29969	0.207	ppbv	94
22) Ethylbenzene	10.828	91	50669	0.208	ppbv	96
23) m,p-Xylene	10.919	91	76964	0.414	ppbv	99
24) o-Xylene	11.192	91	40772	0.198	ppbv	96
26) 1,3-Dichlorobenzene	12.315	146	26501	0.185	ppbv	95
27) 1,4-Dichlorobenzene	12.353	146	26709	0.192	ppbv	96
28) 1,2-Dichlorobenzene	12.573	146	25386	0.179	ppbv#	83
29) 1,2,4-Trichlorobenzene	13.735	180	20060	0.207	ppbv	97
31) Vinyl Chloride(sim)	3.907	62	13792	0.209	ppbv	91
35) Benzene(sim)	7.873	78	26395	0.174	ug/l	93
36) Carbon Tetrachloride(sim)	7.969	117	48442	0.192	ppbv	98
45) Trichloroethene(sim)	8.508	130	14811	0.176	ppbv	92
47) Tetrachloroethene(sim)	10.242	166	18205	0.190	ppbv	98
49) m,p-Xylene(sim)	10.919	91	81044	0.390	ppbv	98
51) 1,4-Dichlorobenzene(sim)	12.353	146	27346	0.204	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_14.D
 Acq On : 04 Dec 2019 03:14 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:11:34 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:11:28 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_15.D
 Acq On : 04 Dec 2019 03:51 am
 Operator : CORTEX\ms
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:31:07 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

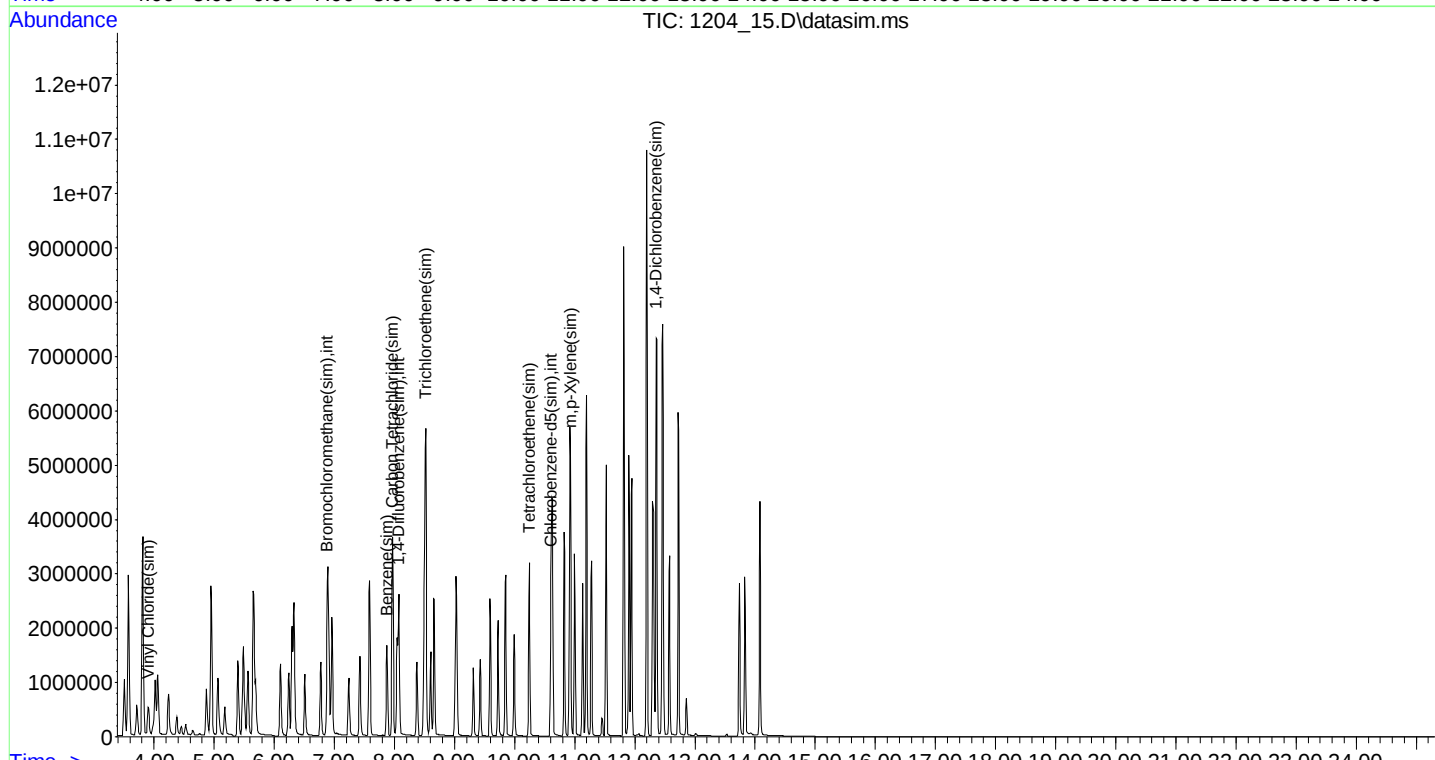
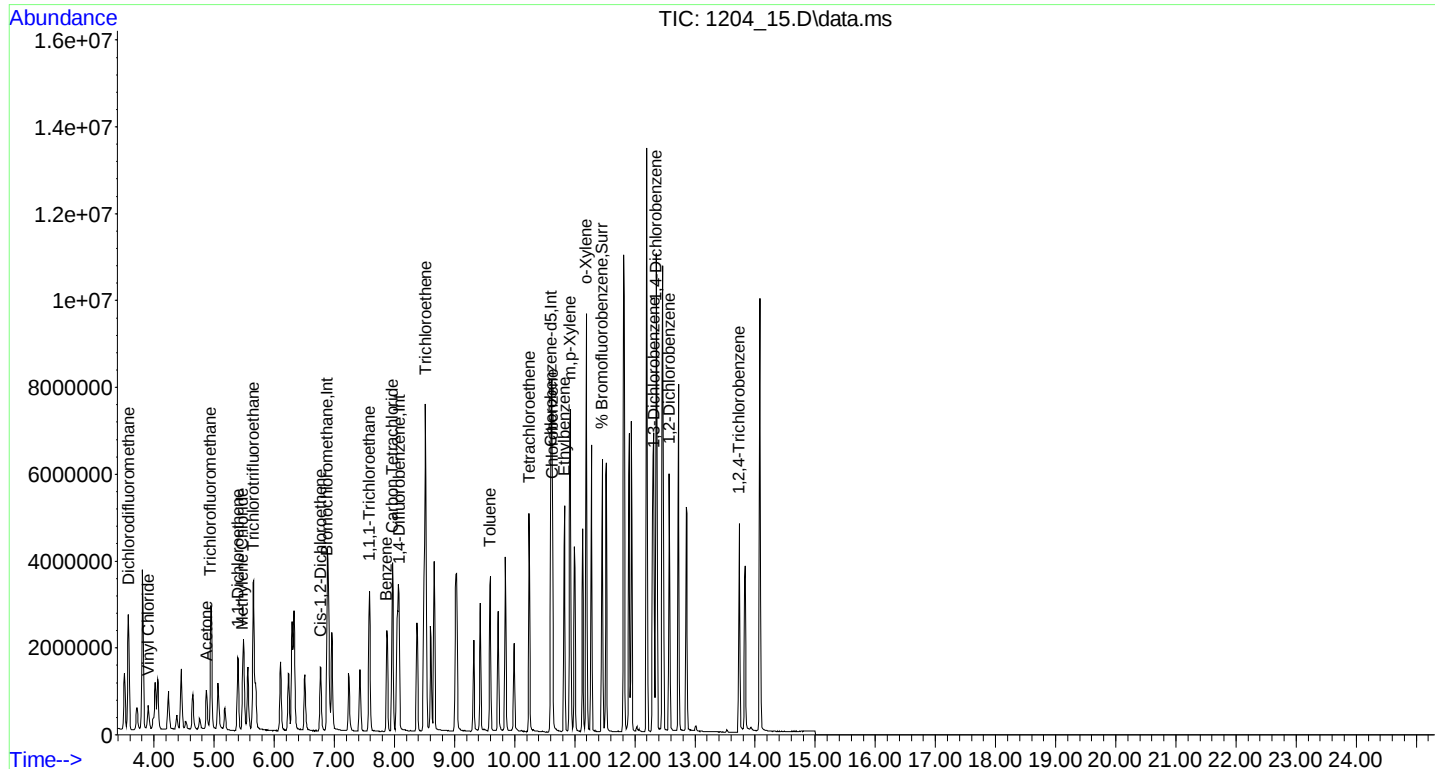
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	496079	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	1962678	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1156244	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	667814	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	2307719	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1196565	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1620105	10.225	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.30%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.575	85	2638777	9.961	ppbv	100
3) Vinyl Chloride	3.907	62	612818	9.924	ppbv	100
4) Acetone	4.872	43	1146981	10.820	ppbv	100
5) Trichlorofluoromethane	4.945	101	2512881	10.529	ppbv	100
6) 1,1-Dichloroethene	5.394	61	1209581	10.250	ppbv	100
7) Methylene Chloride	5.477	49	808197	10.530	ppbv	100
8) Trichlorotrifluoroethane	5.656	101	1321662	9.972	ppbv	100
10) Cis-1,2-Dichloroethene	6.769	61	1102823	10.935	ppbv	100
12) 1,1,1-Trichloroethane	7.585	97	1799490	10.265	ppbv	100
13) Benzene	7.873	78	1359147	9.287	ppbv	100
14) Carbon Tetrachloride	7.966	117	2067832	10.454	ppbv	100
17) Trichloroethene	8.517	130	750387	10.166	ppbv	100
18) Toluene	9.594	91	1917176	10.348	ppbv	100
19) Tetrachloroethene	10.242	166	943454	9.915	ppbv	100
21) Chlorobenzene	10.631	112	1554566	9.825	ppbv	100
22) Ethylbenzene	10.828	91	2765217	10.403	ppbv	100
23) m,p-Xylene	10.926	91	4334971	21.335	ppbv	100
24) o-Xylene	11.192	91	2331371	10.358	ppbv	100
26) 1,3-Dichlorobenzene	12.315	146	1639863	10.482	ppbv	100
27) 1,4-Dichlorobenzene	12.353	146	1614359	10.592	ppbv	100
28) 1,2-Dichlorobenzene	12.573	146	1649221	10.620	ppbv	100
29) 1,2,4-Trichlorobenzene	13.735	180	1101771	10.393	ppbv	100
31) Vinyl Chloride(sim)	3.907	62	612818	9.195	ppbv	100
35) Benzene(sim)	7.873	78	1359147	8.857	ug/l	100
36) Carbon Tetrachloride(sim)	7.969	117	2576469	10.085	ppbv	100
45) Trichloroethene(sim)	8.517	130	750387	8.791	ppbv	100
47) Tetrachloroethene(sim)	10.242	166	943526	9.700	ppbv	100
49) m,p-Xylene(sim)	10.926	91	4374297	18.879	ppbv	100
51) 1,4-Dichlorobenzene(sim)	12.353	146	1614359	10.769	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_15.D
 Acq On : 04 Dec 2019 03:51 am
 Operator : CORTEX\ms
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:31:07 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration



6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM24
 Heated Purge (Y/N): Y
 GC Column: _____

Client: _____
 SDG No.: GCE70607
 Calibration Date From: 12/07/19 18:52
 Calibration Date Thru: 12/07/19 23:28
 Method File: 24AIR_1207.M

Laboratory File Ids

RRF1	1207_03.D	RRF2	1207_04.D	RRF3	1207_05.D	RRF4	1207_06.D	RRF5	1207_14.D	RRF6	1207_07.D				
RRF7	1207_13.D	RRF8	1207_08.D	RRF9	1207_09.D	RRF10	1207_15.D	RRF11	1207_10.D	RRF12	1207_11.D				
COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD	
Dichlorodifluoromethane				0.423	0.436	0.419	0.527	0.518	0.539	0.465	0.374	0.281	0.443	18.63	
Vinyl Chloride				0.884	1.153	1.145	1.199	0.957	0.926	0.860	0.862	0.810	0.977	15.13	
Acetone							1.795	1.760	1.629	1.559	1.451	1.279	1.579	12.30	
Trichlorofluoromethane				4.674	4.521	4.907	3.567	3.910	3.566	3.193	2.863	2.366	3.730	23.01	
1,1-Dichloroethene				2.028	2.042	2.140	1.769	1.808	1.755	1.719	1.619	1.446	1.814	12.20	
Methylene Chloride					1.492	1.329	1.083	1.092	1.096	1.073	1.020	0.919	1.138	16.09	
Trichlorotrifluoroethane					3.231	3.286	2.594	2.673	2.486	2.330	2.200	1.952	2.594	18.08	
Cis-1,2-Dichloroethene				1.234	1.308	1.273	1.372	1.283	1.436	1.545	1.554	1.471	1.386	8.70	
1,1,1-Trichloroethane				2.723	2.655	2.799	2.458	2.497	2.498	2.409	2.331	2.172	2.505	7.84	
Benzene				2.092	2.244	2.260	2.412	2.215	2.363	2.357	2.404	2.351	2.300	4.57	
Carbon Tetrachloride				2.993	2.947	3.146	2.847	2.986	3.026	2.904	2.792	2.590	2.915	5.47	
Trichloroethene				0.431	0.510	0.459	0.523	0.487	0.529	0.575	0.572	0.547	0.515	9.47	
Toluene				0.738	0.807	0.812	1.046	1.100	1.209	1.267	1.207	1.123	1.034	19.21	
Tetrachloroethene				0.672	0.678	0.676	0.745	0.728	0.759	0.799	0.810	0.755	0.736	7.05	
Chlorobenzene				1.542	1.660	1.593	1.637	1.569	1.646	1.658	1.600	1.560	1.607	2.78	
Ethylbenzene				1.842	2.147	2.393	2.540	2.470	2.532	2.474	2.345	2.213	2.328	9.78	
m,p-Xylene				1.121	1.377	1.588	1.504	1.877	1.966	1.937	1.830	1.712	1.657	17.19	
o-Xylene					1.223	1.307	1.819	1.963	2.281	2.418	2.244	2.116	1.921	23.24	
1,3-Dichlorobenzene				1.355	1.813	1.909	1.860	1.744	1.764	1.673	1.587	1.434	1.682	11.29	
1,4-Dichlorobenzene				1.181	1.529	1.586	1.701	1.693	1.809	1.812	1.788	1.609	1.634	12.11	
1,2-Dichlorobenzene				1.174	1.684	1.630	1.626	1.637	1.704	1.647	1.565	1.387	1.562	11.05	
1,2,4-Trichlorobenzene					0.143	0.278	0.948	2.135	5.226	9.729	27.910	37.460	Coef R2	1.00	
Vinyl Chloride(sim)		0.846	0.899	1.019	1.207	1.140	1.237	1.001	0.962				1.039	13.72	
Carbon Tetrachloride(sim)	3.057	2.439	2.760	3.013	2.918	3.110	2.769	2.967	2.967				2.889	7.12	
Trichloroethene(sim)	0.486	0.366	0.418	0.385	0.454	0.411	0.474	0.434	0.475				0.434	9.67	

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B

Client:

SDG No.: GCE70607

Calibration Date From: 12/07/19 18:52

Calibration Date Thru: 12/07/19 23:28

Method File: 24AIR 1207.M

RRF1	<u>1207_03.D</u>	RRF2	<u>1207_04.D</u>	RRF3	<u>1207_05.D</u>	RRF4	<u>1207_06.D</u>	RRF5	<u>1207_14.D</u>	RRF6	<u>1207_07.D</u>
RRF7	<u>1207_13.D</u>	RRF8	<u>1207_08.D</u>	RRF9	<u>1207_09.D</u>	RRF10	<u>1207_15.D</u>	RRF11	<u>1207_10.D</u>	RRF12	<u>1207_11.D</u>

[illegible]

(#) The maximum %RSD was not met for this compound

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Page 174 of 290

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_03.D
 Acq On : 7 Dec 2019 4:38 pm
 Operator : Keith
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbv
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 10:44:22 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 09 09:43:48 2019
 Response via : Initial Calibration

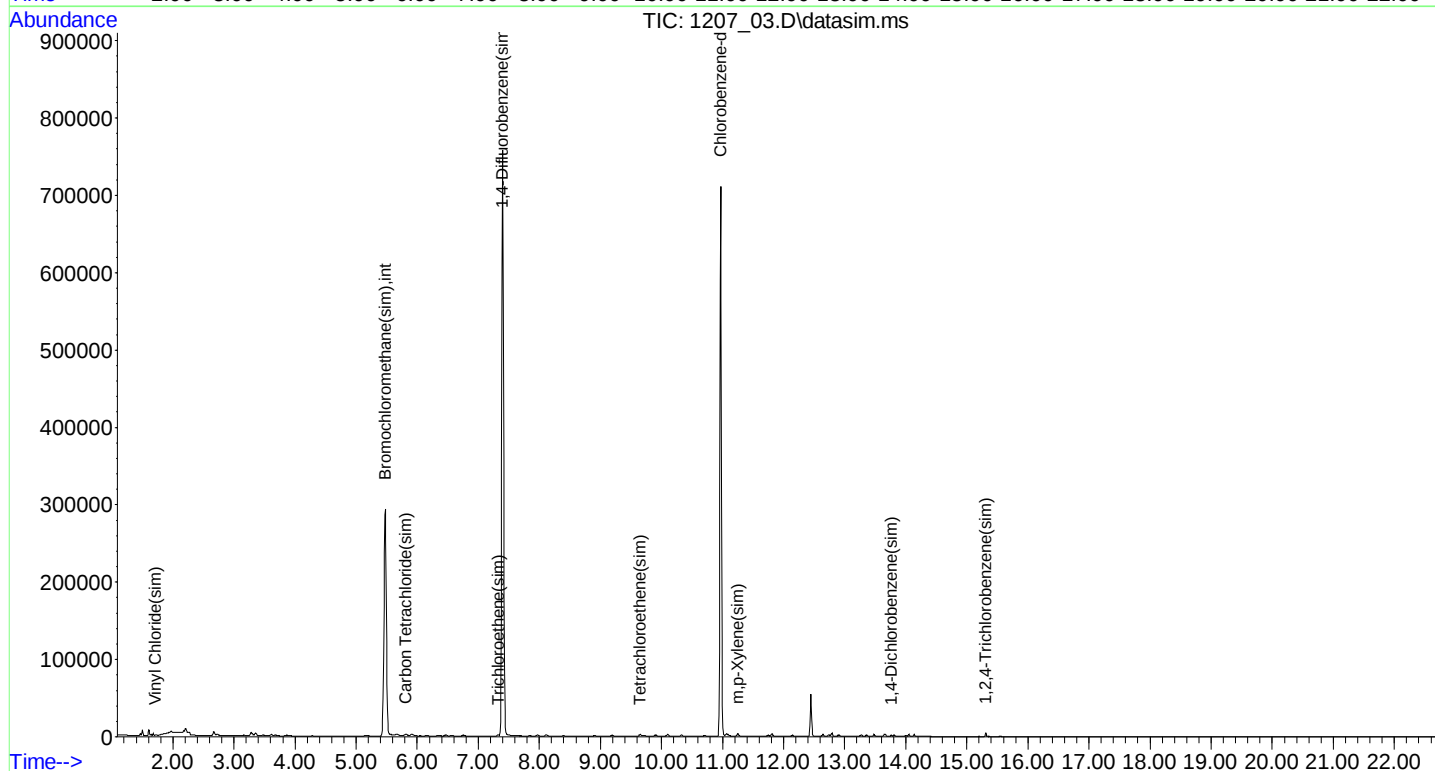
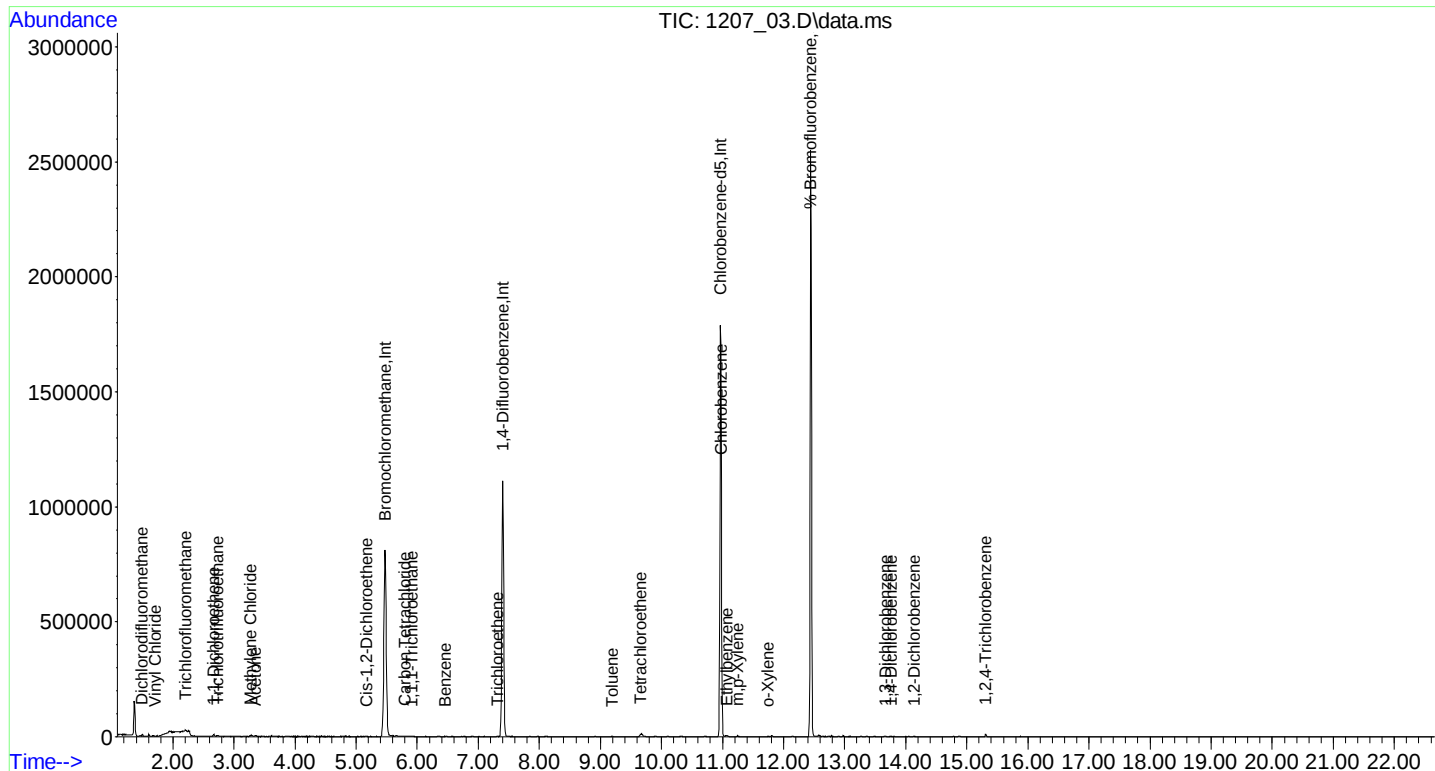
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.475	130	403678	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.402	114	974253	10.000	ng	0.00
53) Chlorobenzene-d5	10.967	82	523019	10.000	ng	0.00
80) Bromochloromethane(sim)	5.478	130	420237	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.398	114	1093388	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.970	82	567751	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.445	95	720379	8.949	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	89.50%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.499	101	415	0.023	ppbv#	80
6) Vinyl Chloride	1.711	62	1145	0.029	ppbv	68
12) Acetone	3.354	43	6435	0.101	ppbv	98
13) Trichlorofluoromethane	2.204	101	4498	0.030	ppbv	92
16) 1,1-Dichloroethene	2.663	61	1863	0.025	ppbv	93
17) Methylene Chloride	3.279	49	2938	0.064	ppbv	96
21) Trichlorotrifluoroethane	2.731	101	2646	0.025	ppbv	92
26) Cis-1,2-Dichloroethene	5.172	61	1064	0.019	ppbv#	69
32) 1,1,1-Trichloroethane	5.914	97	2243	0.022	ppbv#	78
33) Benzene	6.463	78	2102	0.023	ppbv	96
34) Carbon Tetrachloride	5.806	117	2439	0.021	ppbv	89
39) Trichloroethene	7.326	130	906	0.018	ppbv#	38
48) Toluene	9.193	91	1337	0.013	ppbv#	86
52) Tetrachloroethene	9.655	166	1216	0.017	ppbv	97
55) Chlorobenzene	10.981	112	1487	0.018	ppbv#	12
56) Ethylbenzene	11.070	91	1941	0.016	ppbv	86
57) m,p-Xylene	11.248	91	2750	0.032	ppbv#	93
61) o-Xylene	11.742	91	955	0.010	ppbv#	82
71) 1,3-Dichlorobenzene	13.671	146	1443	0.016	ppbv#	91
72) 1,4-Dichlorobenzene	13.762	146	1149	0.013	ppbv	97
75) 1,2-Dichlorobenzene	14.138	146	1310	0.016	ppbv#	82
77) 1,2,4-Trichlorobenzene	15.304	180	263	0.004	ppbv#	84
82) Vinyl Chloride(sim)	1.714	62	949	0.022	ppbv	90
86) Carbon Tetrachloride(sim)	5.816	117	2569	0.021	ppbv	98
97) Trichloroethene(sim)	7.329	130	1062m	0.022	ppbv	1
103) Tetrachloroethene(sim)	9.648	166	1030	0.016	ppbv#	76
107) m,p-Xylene(sim)	11.248	91	2750	0.032	ppbv#	93
113) 1,4-Dichlorobenzene(sim)	13.762	146	1018	0.012	ppbv	91
118) 1,2,4-Trichlorobenzene...	15.307	180	412	0.008	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_03.D
 Acq On : 7 Dec 2019 4:38 pm
 Operator : Keith
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 10:44:22 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:43:48 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_04.D
 Acq On : 7 Dec 2019 5:10 pm
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 10:43:36 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:43:11 2019
 Response via : Initial Calibration

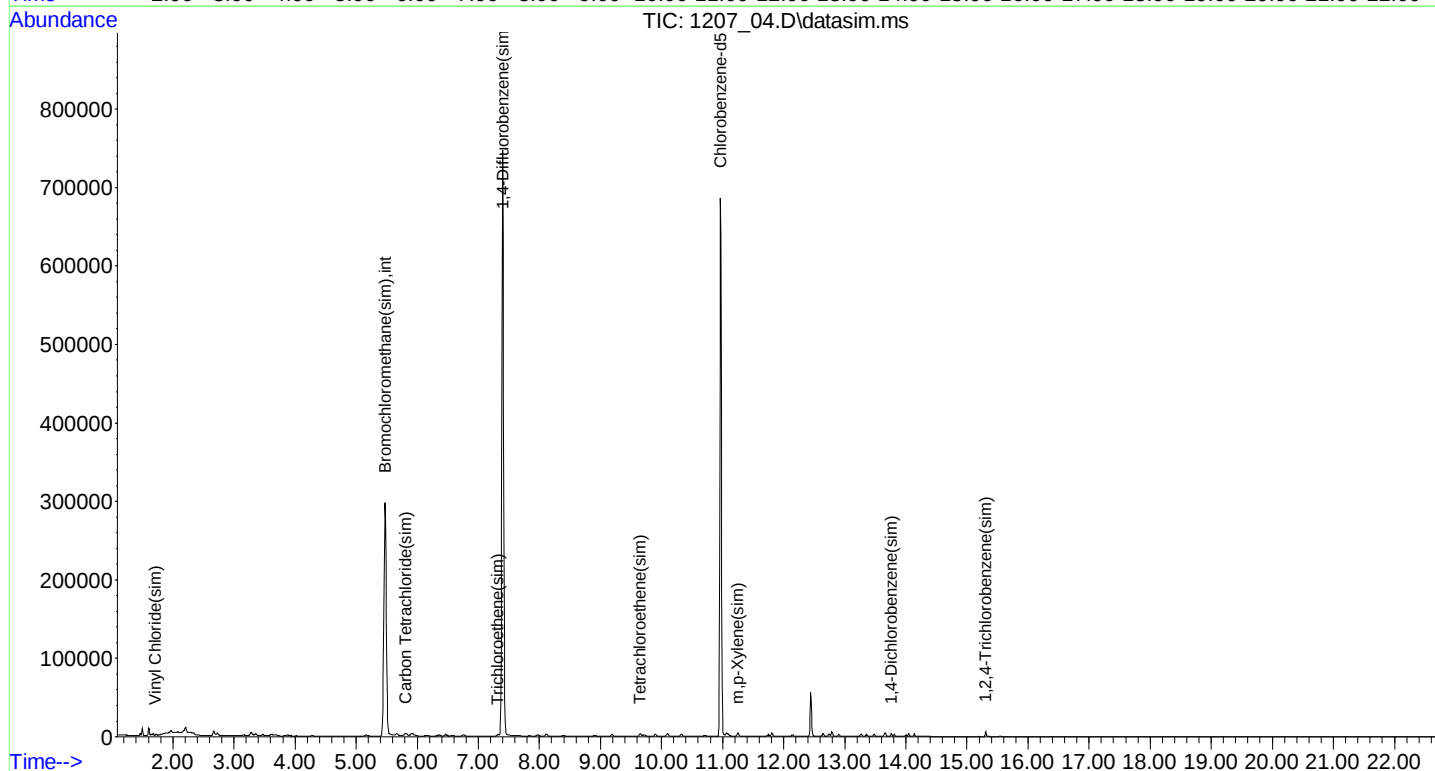
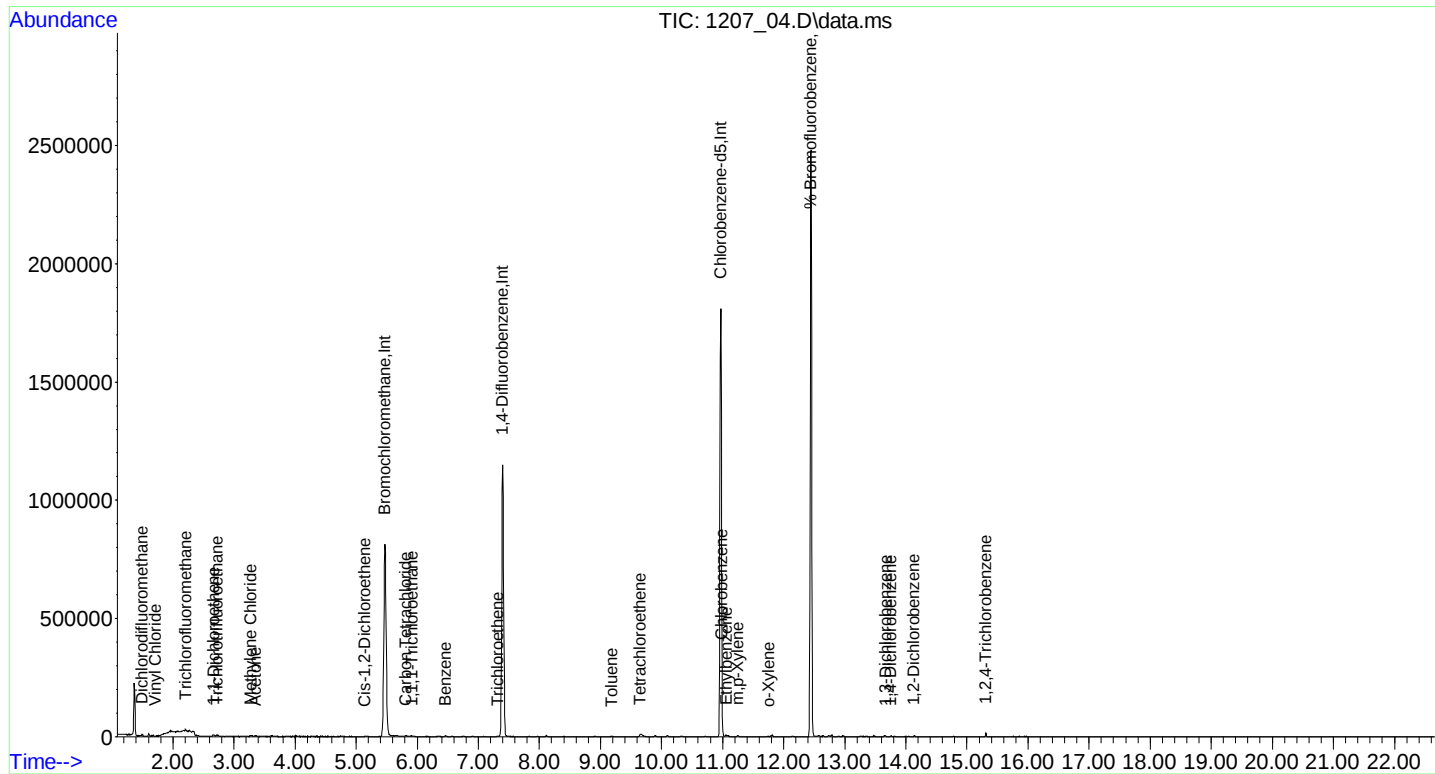
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.471	130	404872	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.398	114	989964	10.000	ng	0.00
53) Chlorobenzene-d5	10.970	82	517260	10.000	ng	0.00
80) Bromochloromethane(sim)	5.473	130	423274	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.401	114	1097836	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.966	82	565008	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.448	95	720618	9.051	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.50%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.499	101	637	0.036	ppbv#	41
6) Vinyl Chloride	1.718	62	1251	0.032	ppbv	95
12) Acetone	3.354	43	5127	0.080	ppbv	93
13) Trichlorofluoromethane	2.205	101	5972	0.040	ppbv#	91
16) 1,1-Dichloroethene	2.670	61	2035	0.028	ppbv	97
17) Methylene Chloride	3.272	49	3031	0.066	ppbv	96
21) Trichlorotrifluoroethane	2.718	101	3549	0.034	ppbv	90
26) Cis-1,2-Dichloroethene	5.146	61	788	0.014	ppbv#	85
32) 1,1,1-Trichloroethane	5.918	97	3022	0.030	ppbv	97
33) Benzene	6.466	78	3268	0.035	ppbv#	86
34) Carbon Tetrachloride	5.809	117	3616	0.031	ppbv	90
39) Trichloroethene	7.322	130	1572	0.031	ppbv#	80
48) Toluene	9.189	91	1974	0.019	ppbv#	97
52) Tetrachloroethene	9.644	166	1753	0.024	ppbv	92
55) Chlorobenzene	10.991	112	2279	0.027	ppbv#	23
56) Ethylbenzene	11.066	91	2800	0.023	ppbv	89
57) m,p-Xylene	11.251	91	3544	0.041	ppbv	98
61) o-Xylene	11.752	91	1503	0.015	ppbv	95
71) 1,3-Dichlorobenzene	13.668	146	1971	0.023	ppbv	97
72) 1,4-Dichlorobenzene	13.759	146	1836	0.022	ppbv#	93
75) 1,2-Dichlorobenzene	14.135	146	2072	0.026	ppbv#	75
77) 1,2,4-Trichlorobenzene	15.306	180	499	0.008	ppbv	85
82) Vinyl Chloride(sim)	1.714	62	1253	0.028	ppbv	98
86) Carbon Tetrachloride(sim)	5.812	117	3613	0.030	ppbv	99
97) Trichloroethene(sim)	7.322	130	1406	0.030	ppbv#	69
103) Tetrachloroethene(sim)	9.644	166	1494	0.023	ppbv#	66
107) m,p-Xylene(sim)	11.251	91	3544	0.041	ppbv	98
113) 1,4-Dichlorobenzene(sim)	13.759	146	1836	0.022	ppbv	91
118) 1,2,4-Trichlorobenzene...	15.309	180	593	0.011	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_04.D
 Acq On : 7 Dec 2019 5:10 pm
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 10:43:36 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:43:11 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_05.D
 Acq On : 7 Dec 2019 5:42 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppbv
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 10:42:57 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 09 09:42:34 2019
 Response via : Initial Calibration

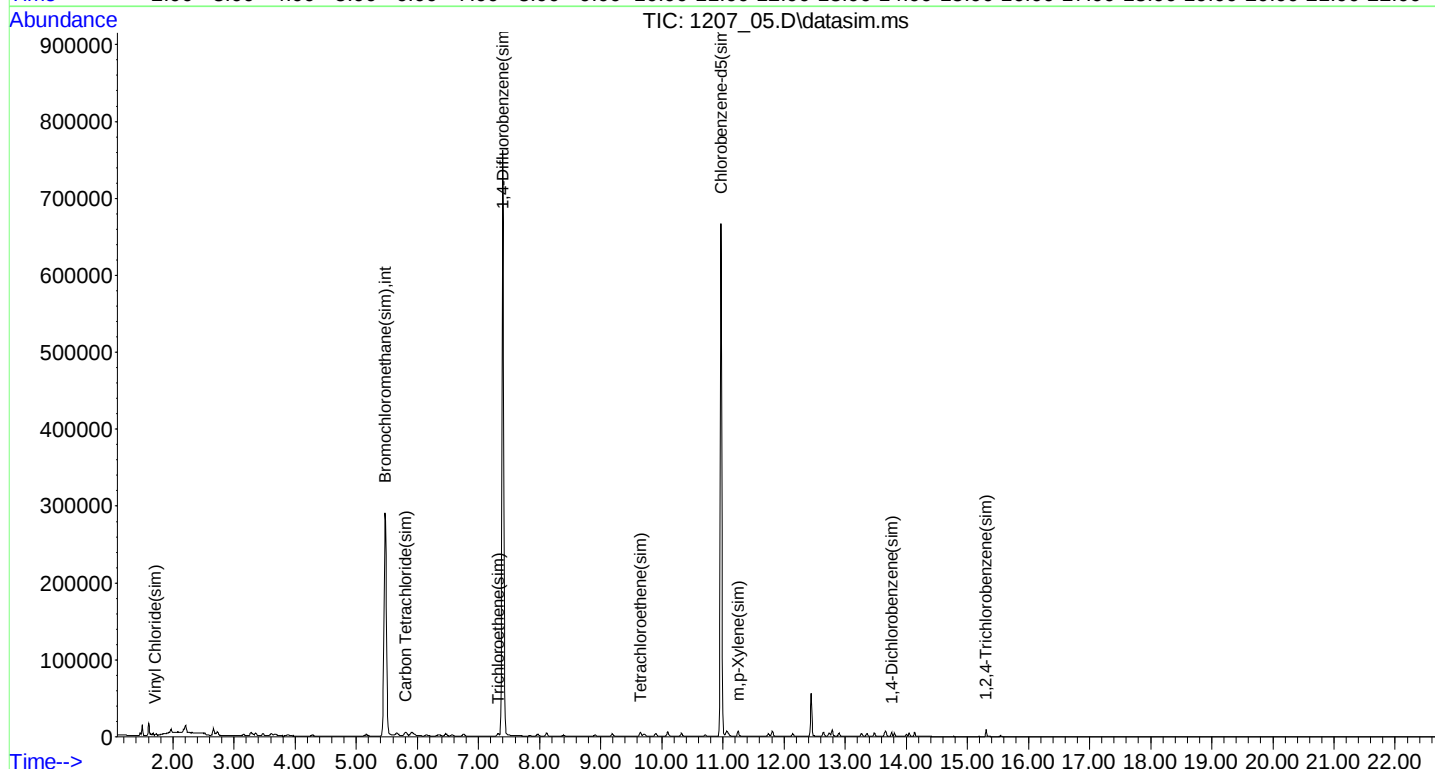
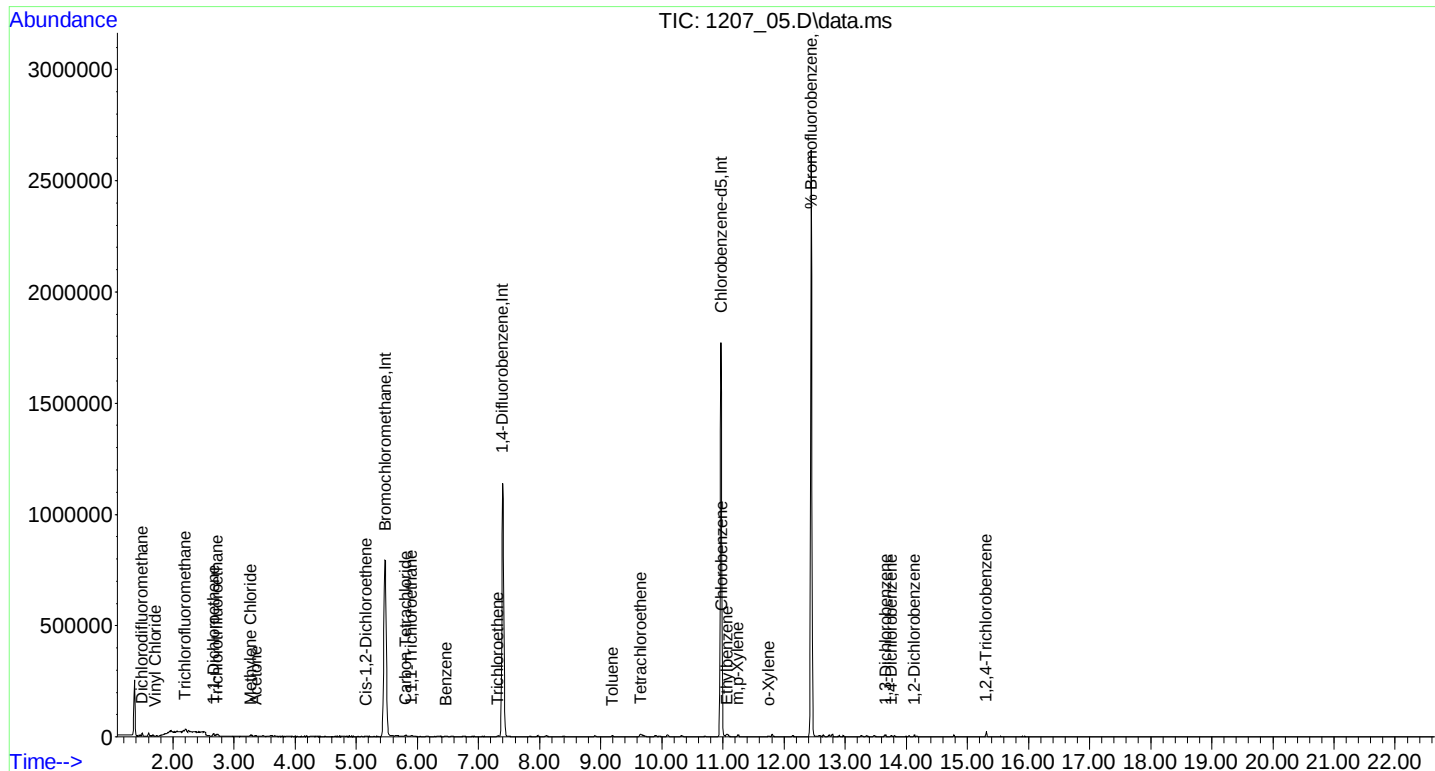
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.475	130	398131	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.395	114	971907	10.000	ng	0.00
53) Chlorobenzene-d5	10.967	82	513940	10.000	ng	0.00
80) Bromochloromethane(sim)	5.471	130	414378	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.398	114	1082467	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.970	82	561964	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.445	95	735032	9.292	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.90%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.499	101	461	0.026	ppbv#	48
6) Vinyl Chloride	1.711	62	1632	0.042	ppbv	76
12) Acetone	3.354	43	6814	0.108	ppbv	100
13) Trichlorofluoromethane	2.198	101	9016	0.061	ppbv#	96
16) 1,1-Dichloroethene	2.663	61	3647	0.050	ppbv#	76
17) Methylene Chloride	3.272	49	3718	0.082	ppbv	94
21) Trichlorotrifluoroethane	2.725	101	4951	0.048	ppbv#	92
26) Cis-1,2-Dichloroethene	5.158	61	2082	0.038	ppbv	93
32) 1,1,1-Trichloroethane	5.907	97	4847	0.049	ppbv	94
33) Benzene	6.464	78	3949	0.043	ppbv#	94
34) Carbon Tetrachloride	5.806	117	5521	0.048	ppbv	98
39) Trichloroethene	7.320	130	2076	0.041	ppbv	96
48) Toluene	9.193	91	3151	0.031	ppbv#	90
52) Tetrachloroethene	9.648	166	2582	0.036	ppbv	96
55) Chlorobenzene	10.988	112	3890	0.047	ppbv#	20
56) Ethylbenzene	11.063	91	4479	0.037	ppbv	99
57) m,p-Xylene	11.249	91	5835	0.069	ppbv	96
61) o-Xylene	11.749	91	2466	0.025	ppbv#	88
71) 1,3-Dichlorobenzene	13.665	146	3187	0.037	ppbv	96
72) 1,4-Dichlorobenzene	13.762	146	2667	0.032	ppbv	96
75) 1,2-Dichlorobenzene	14.139	146	2706	0.034	ppbv	94
77) 1,2,4-Trichlorobenzene	15.304	180	853	0.013	ppbv	94
82) Vinyl Chloride(sim)	1.714	62	1862	0.043	ppbv	99
86) Carbon Tetrachloride(sim)	5.809	117	5719	0.048	ppbv	100
97) Trichloroethene(sim)	7.322	130	2264m	0.048	ppbv	36
103) Tetrachloroethene(sim)	9.648	166	2582	0.041	ppbv#	79
107) m,p-Xylene(sim)	11.249	91	5835	0.067	ppbv	96
113) 1,4-Dichlorobenzene(sim)	13.762	146	2667	0.033	ppbv	94
118) 1,2,4-Trichlorobenzene...	15.307	180	915	0.017	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_05.D
 Acq On : 7 Dec 2019 5:42 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppbV
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 10:42:57 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:42:34 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_06.D
 Acq On : 7 Dec 2019 6:14 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppbv
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 10:42:13 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:41:55 2019
 Response via : Initial Calibration

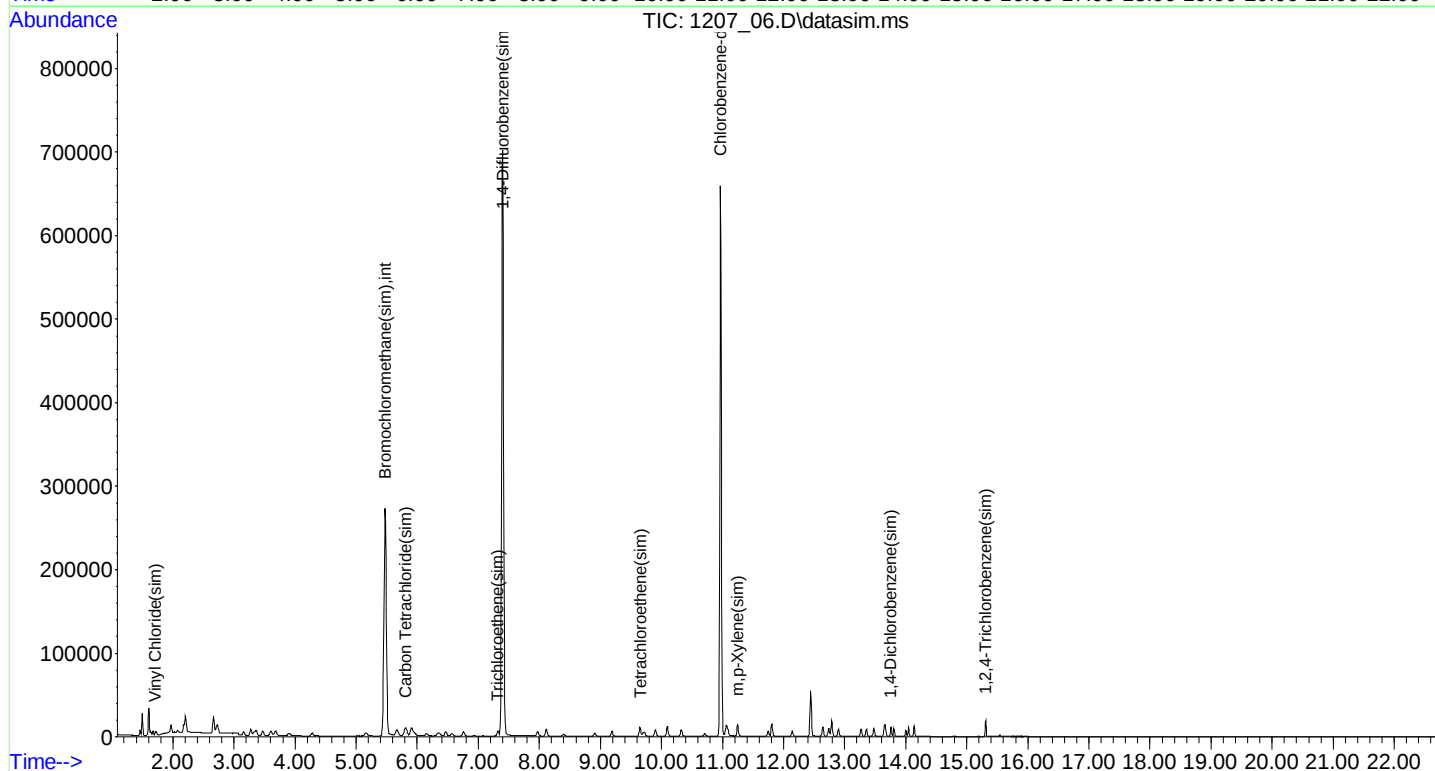
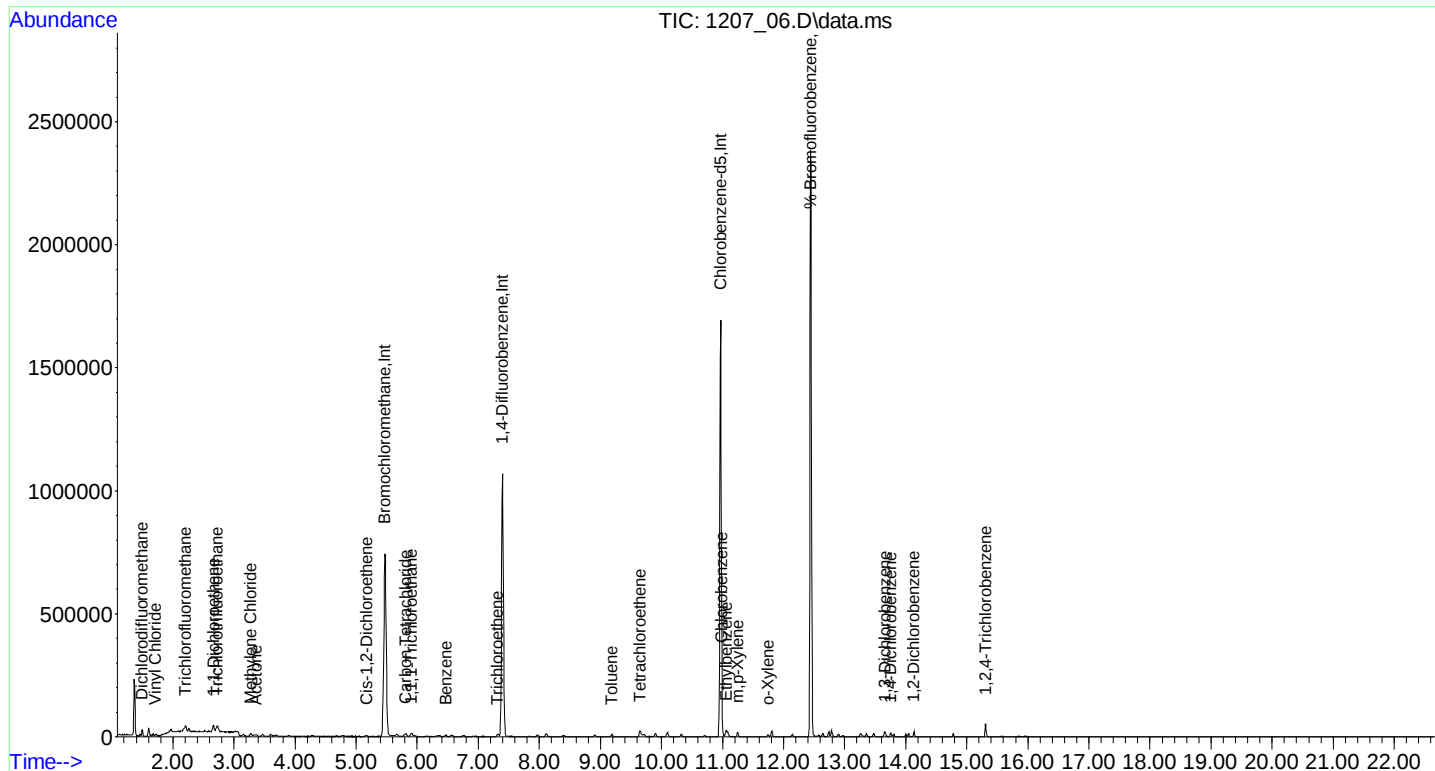
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.470	130	366775	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.398	114	908230	10.000	ng	0.00
53) Chlorobenzene-d5	10.970	82	481974	10.000	ng	0.00
80) Bromochloromethane(sim)	5.473	130	381526	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.401	114	1016170	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.966	82	523213	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.441	95	690472	9.228	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.30%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.499	101	1550	0.095	ppbv#	84
6) Vinyl Chloride	1.711	62	3242	0.090	ppbv	69
12) Acetone	3.361	43	12276	0.212	ppbv#	87
13) Trichlorofluoromethane	2.204	101	17144	0.125	ppbv	97
16) 1,1-Dichloroethene	2.663	61	7440	0.112	ppbv	89
17) Methylene Chloride	3.279	49	6116	0.147	ppbv#	80
21) Trichlorotrifluoroethane	2.725	101	11833	0.124	ppbv	98
26) Cis-1,2-Dichloroethene	5.168	61	4525	0.089	ppbv	90
32) 1,1,1-Trichloroethane	5.910	97	9986	0.109	ppbv	95
33) Benzene	6.473	78	7674	0.091	ppbv	98
34) Carbon Tetrachloride	5.809	117	10978	0.103	ppbv	97
39) Trichloroethene	7.315	130	3917	0.084	ppbv	94
48) Toluene	9.189	91	6707	0.071	ppbv	91
52) Tetrachloroethene	9.651	166	6101	0.091	ppbv	98
55) Chlorobenzene	10.991	112	7431	0.096	ppbv#	8
56) Ethylbenzene	11.059	91	8877	0.079	ppbv	94
57) m,p-Xylene	11.251	91	10809	0.135	ppbv	94
61) o-Xylene	11.745	91	5176	0.056	ppbv	96
71) 1,3-Dichlorobenzene	13.661	146	6531	0.081	ppbv	96
72) 1,4-Dichlorobenzene	13.758	146	5692	0.072	ppbv	94
75) 1,2-Dichlorobenzene	14.135	146	5658	0.075	ppbv	93
77) 1,2,4-Trichlorobenzene	15.306	180	1934	0.032	ppbv#	90
82) Vinyl Chloride(sim)	1.714	62	3888	0.098	ppbv	98
86) Carbon Tetrachloride(sim)	5.812	117	11495	0.104	ppbv	98
97) Trichloroethene(sim)	7.315	130	3917	0.089	ppbv	94
103) Tetrachloroethene(sim)	9.651	166	6101	0.102	ppbv	93
107) m,p-Xylene(sim)	11.251	91	10809	0.132	ppbv	94
113) 1,4-Dichlorobenzene(sim)	13.758	146	5692	0.075	ppbv	94
118) 1,2,4-Trichlorobenzene...	15.304	180	2110	0.043	ppbv	93

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_06.D
 Acq On : 7 Dec 2019 6:14 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppbv
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 10:42:13 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:41:55 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_07.D
 Acq On : 7 Dec 2019 6:52 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.5ppbv
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 10:41:38 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:41:26 2019
 Response via : Initial Calibration

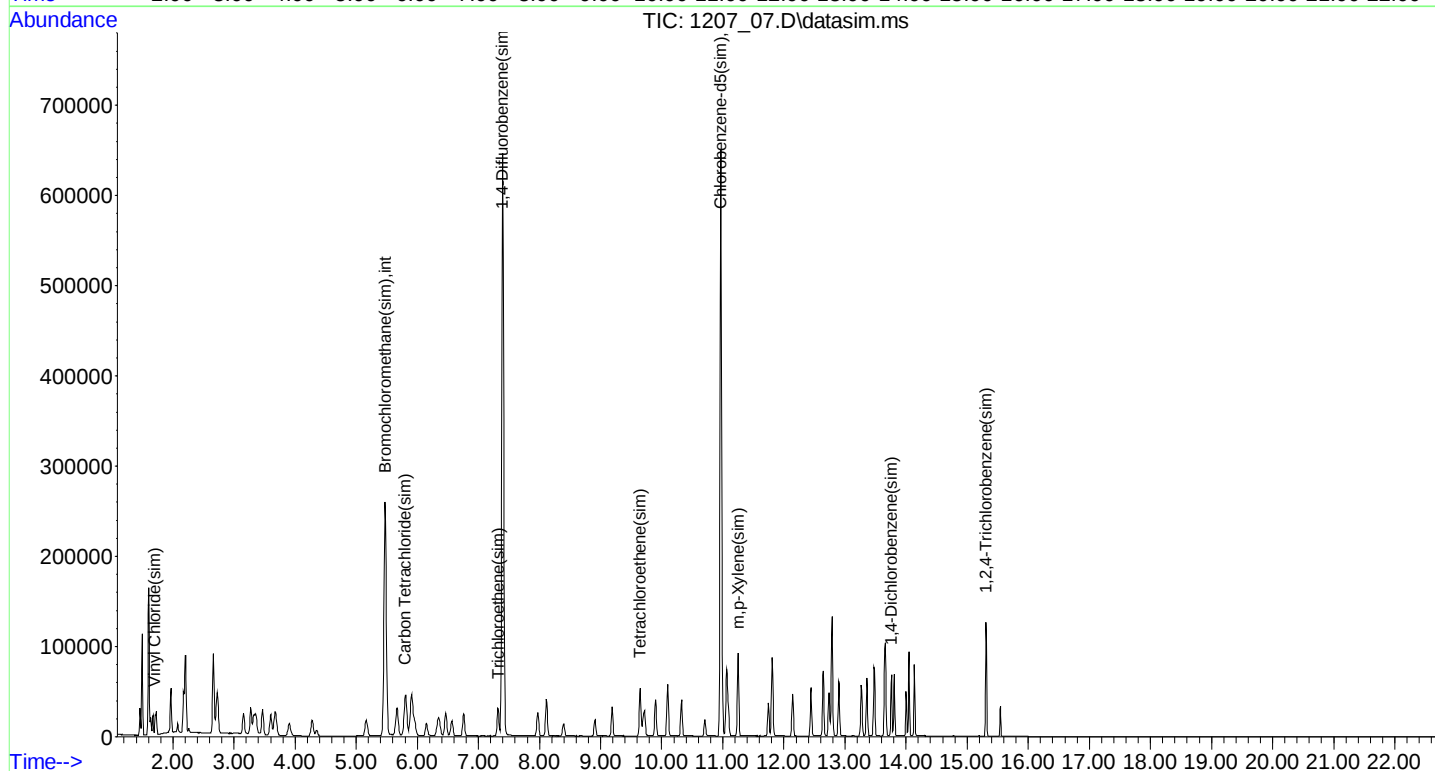
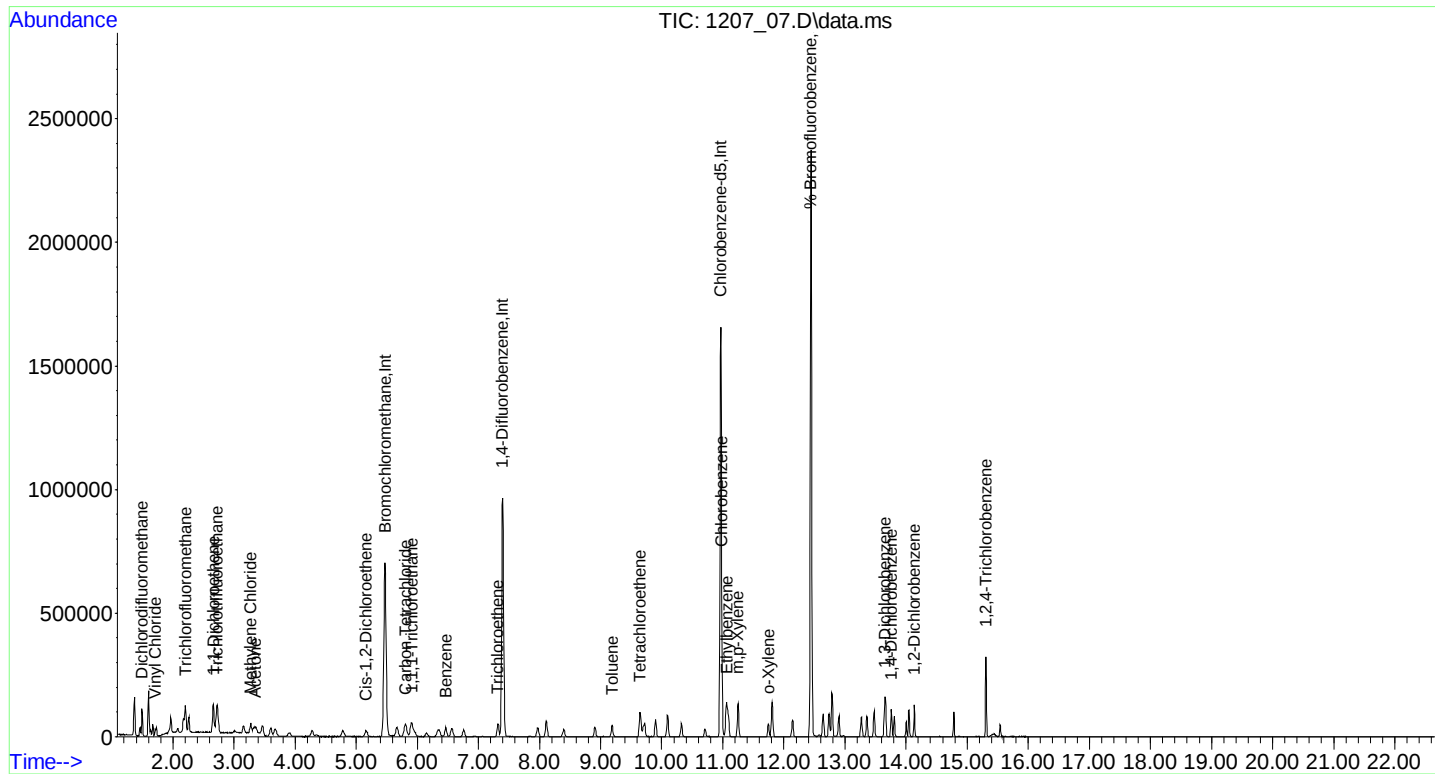
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.470	130	331885	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.398	114	846830	10.000	ng	0.00
53) Chlorobenzene-d5	10.970	82	474541	10.000	ng	0.00
80) Bromochloromethane(sim)	5.473	130	348492	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.394	114	944798	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.966	82	517501	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.441	95	697577	9.397	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.00%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.492	101	6955	0.474	ppbv	91
6) Vinyl Chloride	1.711	62	18996	0.586	ppbv	97
12) Acetone	3.354	43	38368	0.732	ppbv	96
13) Trichlorofluoromethane	2.204	101	81434	0.658	ppbv	96
16) 1,1-Dichloroethene	2.663	61	35510	0.590	ppbv	98
17) Methylene Chloride	3.272	49	22047	0.584	ppbv	99
21) Trichlorotrifluoroethane	2.725	101	54525	0.633	ppbv	97
26) Cis-1,2-Dichloroethene	5.160	61	21118	0.459	ppbv	94
32) 1,1,1-Trichloroethane	5.910	97	46440	0.559	ppbv	98
33) Benzene	6.466	78	37499	0.491	ppbv	99
34) Carbon Tetrachloride	5.809	117	52201	0.540	ppbv	99
39) Trichloroethene	7.322	130	19437	0.446	ppbv	95
48) Toluene	9.189	91	34362	0.392	ppbv	99
52) Tetrachloroethene	9.644	166	28621	0.459	ppbv	99
55) Chlorobenzene	10.984	112	37809	0.496	ppbv#	83
56) Ethylbenzene	11.066	91	56775	0.514	ppbv	99
57) m,p-Xylene	11.251	91	75347	0.958	ppbv	98
61) o-Xylene	11.745	91	31008	0.340	ppbv	98
71) 1,3-Dichlorobenzene	13.661	146	45295	0.567	ppbv	97
72) 1,4-Dichlorobenzene	13.758	146	37641	0.485	ppbv	99
75) 1,2-Dichlorobenzene	14.135	146	38671	0.522	ppbv	99
77) 1,2,4-Trichlorobenzene	15.310	180	16646	0.274	ppbv	98
82) Vinyl Chloride(sim)	1.707	62	19859	0.549	ppbv	100
86) Carbon Tetrachloride(sim)	5.805	117	54192	0.538	ppbv	100
97) Trichloroethene(sim)	7.322	130	19437	0.474	ppbv	98
103) Tetrachloroethene(sim)	9.644	166	28551	0.515	ppbv	99
107) m,p-Xylene(sim)	11.251	91	75350	0.893	ppbv	98
113) 1,4-Dichlorobenzene(sim)	13.758	146	37641	0.492	ppbv	99
118) 1,2,4-Trichlorobenzene...	15.309	180	18697	0.365	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_07.D
 Acq On : 7 Dec 2019 6:52 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.5ppbv
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 10:41:38 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:41:26 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_08.D
 Acq On : 7 Dec 2019 7:29 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppbV
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 10:41:18 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:41:08 2019
 Response via : Initial Calibration

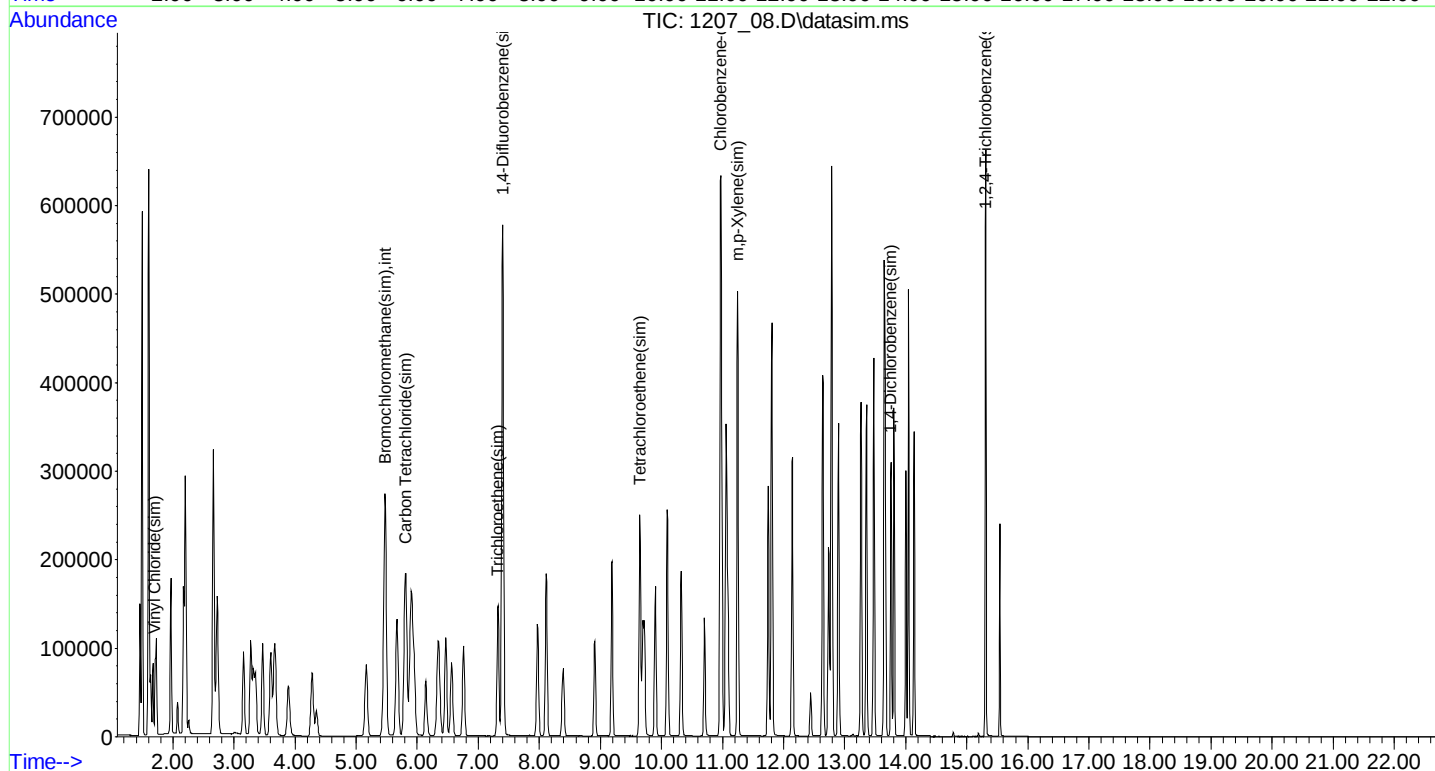
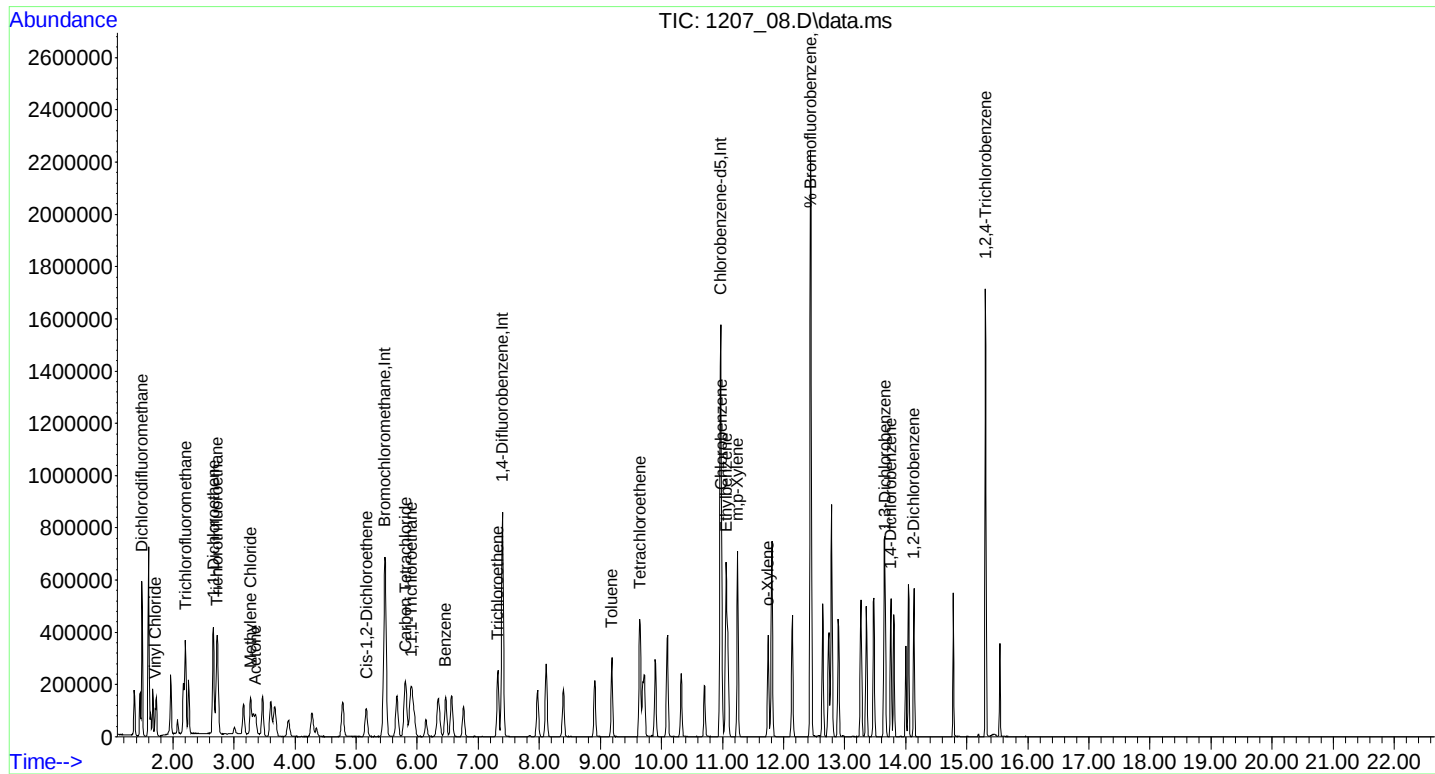
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.470	130	289810	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.398	114	748672	10.000	ng	0.00
53) Chlorobenzene-d5	10.970	82	434858	10.000	ng	0.00
80) Bromochloromethane(sim)	5.473	130	301902	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.400	114	840431	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.966	82	474257	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.441	95	651546	9.511	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.10%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.492	101	37531	2.926	ppbv	98
6) Vinyl Chloride	1.711	62	69311	2.447	ppbv	100
12) Acetone	3.354	43	127508	2.787	ppbv	99
13) Trichlorofluoromethane	2.204	101	283281	2.621	ppbv	100
16) 1,1-Dichloroethene	2.663	61	131012	2.492	ppbv	98
17) Methylene Chloride	3.272	49	79148	2.400	ppbv	100
21) Trichlorotrifluoroethane	2.725	101	193699	2.577	ppbv	100
26) Cis-1,2-Dichloroethene	5.168	61	92960	2.314	ppbv	99
32) 1,1,1-Trichloroethane	5.910	97	180933	2.493	ppbv	98
33) Benzene	6.466	78	160465	2.408	ppbv	99
34) Carbon Tetrachloride	5.809	117	216360	2.561	ppbv	99
39) Trichloroethene	7.322	130	91236	2.367	ppbv	98
48) Toluene	9.189	91	205971	2.660	ppbv	100
52) Tetrachloroethene	9.644	166	136192	2.473	ppbv	100
55) Chlorobenzene	10.984	112	170520	2.440	ppbv	96
56) Ethylbenzene	11.059	91	268489	2.652	ppbv	99
57) m,p-Xylene	11.244	91	408173	5.665	ppbv	99
61) o-Xylene	11.745	91	213378	2.554	ppbv	99
71) 1,3-Dichlorobenzene	13.661	146	189629	2.592	ppbv	99
72) 1,4-Dichlorobenzene	13.758	146	184104	2.590	ppbv	99
75) 1,2-Dichlorobenzene	14.135	146	177950	2.621	ppbv	100
77) 1,2,4-Trichlorobenzene	15.306	180	115504	2.050	ppbv	98
82) Vinyl Chloride(sim)	1.707	62	75550	2.409	ppbv	100
86) Carbon Tetrachloride(sim)	5.812	117	223916	2.567	ppbv	99
97) Trichloroethene(sim)	7.322	130	91236	2.503	ppbv	99
103) Tetrachloroethene(sim)	9.644	166	136192	2.761	ppbv	99
107) m,p-Xylene(sim)	11.244	91	408202	5.010	ppbv	99
113) 1,4-Dichlorobenzene(sim)	13.758	146	184104	2.415	ppbv	99
118) 1,2,4-Trichlorobenzene...	15.309	180	126360	2.210	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_08.D
 Acq On : 7 Dec 2019 7:29 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppbV
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 10:41:18 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:41:08 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_09.D
 Acq On : 7 Dec 2019 8:02 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0 ppbv
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 09 10:40:59 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:40:43 2019
 Response via : Initial Calibration

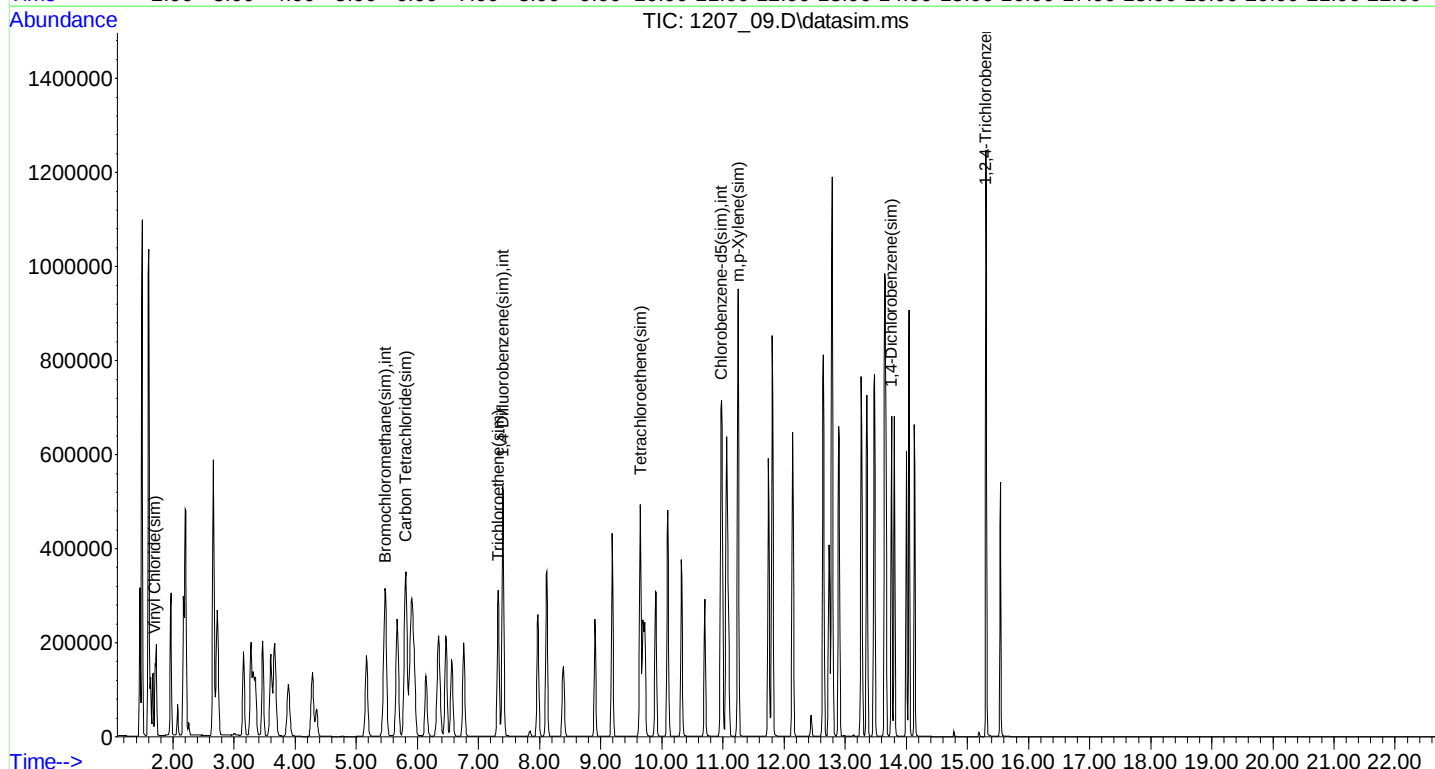
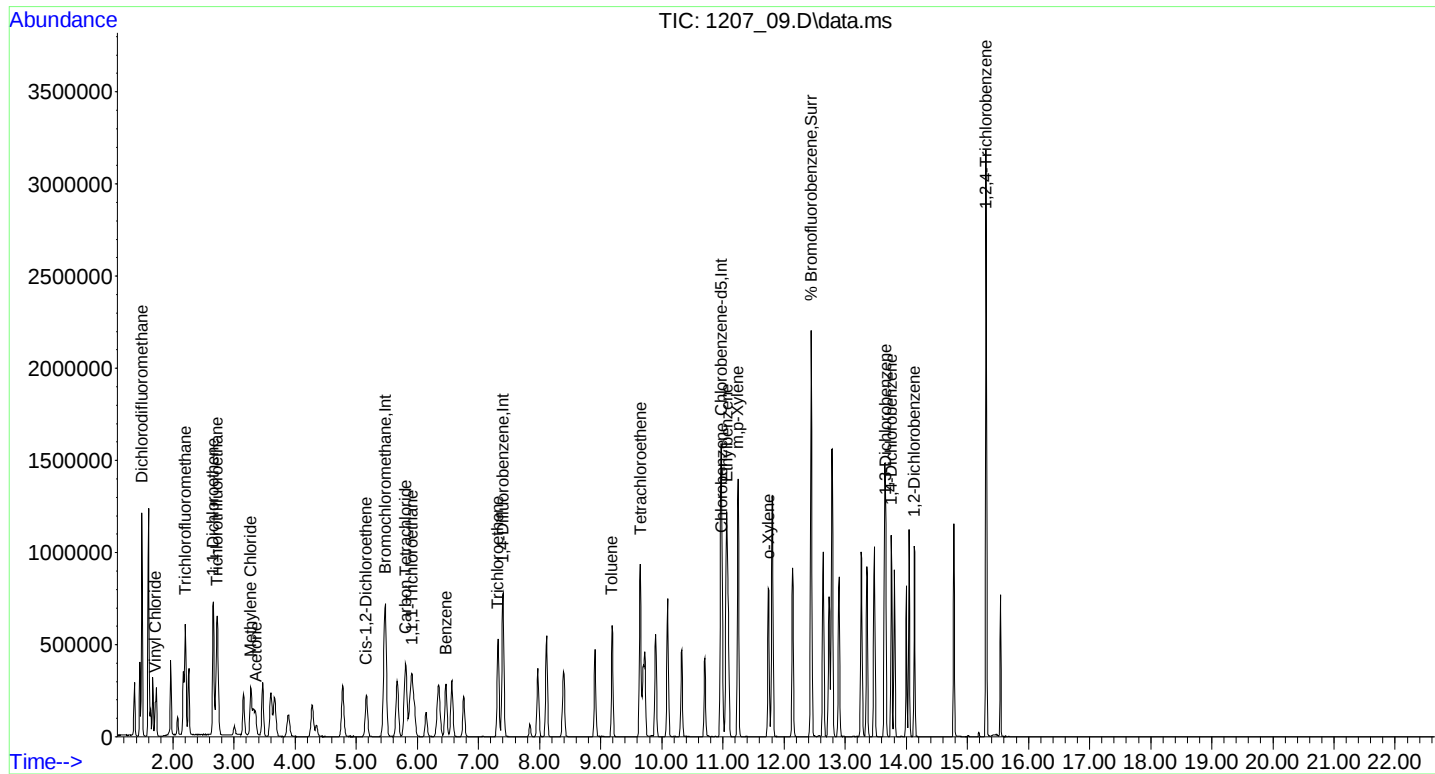
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.475	130	267496	10.000	ng	-0.01
36) 1,4-Difluorobenzene	7.402	114	715128	10.000	ng	0.00
53) Chlorobenzene-d5	10.967	82	416889	10.000	ng	0.00
80) Bromochloromethane(sim)	5.478	130	281886	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.398	114	795985	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.970	82	449514	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.445	95	638968	9.677	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.80%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.492	101	72117	6.092	ppbv	98
6) Vinyl Chloride	1.711	62	123872	4.738	ppbv	99
12) Acetone	3.354	43	217852	5.159	ppbv	99
13) Trichlorofluoromethane	2.204	101	476954	4.781	ppbv	99
16) 1,1-Dichloroethene	2.656	61	234794	4.838	ppbv	99
17) Methylene Chloride	3.272	49	146546	4.814	ppbv	99
21) Trichlorotrifluoroethane	2.725	101	332526	4.792	ppbv	100
26) Cis-1,2-Dichloroethene	5.165	61	192125	5.181	ppbv	100
32) 1,1,1-Trichloroethane	5.914	97	334092	4.987	ppbv	99
33) Benzene	6.470	78	316081	5.138	ppbv	99
34) Carbon Tetrachloride	5.806	117	404785	5.192	ppbv	99
39) Trichloroethene	7.319	130	189168	5.138	ppbv	99
48) Toluene	9.186	91	432205	5.843	ppbv	99
52) Tetrachloroethene	9.648	166	271265	5.156	ppbv	99
55) Chlorobenzene	10.988	112	343015	5.119	ppbv	99
56) Ethylbenzene	11.063	91	527806	5.437	ppbv	99
57) m,p-Xylene	11.248	91	819523	11.864	ppbv	98
61) o-Xylene	11.742	91	475364	5.935	ppbv	100
71) 1,3-Dichlorobenzene	13.665	146	367652	5.243	ppbv	99
72) 1,4-Dichlorobenzene	13.756	146	377162	5.535	ppbv	99
75) 1,2-Dichlorobenzene	14.132	146	355245	5.457	ppbv	99
77) 1,2,4-Trichlorobenzene	15.304	180	264439	5.038	ppbv	99
82) Vinyl Chloride(sim)	1.707	62	135629	4.632	ppbv	100
86) Carbon Tetrachloride(sim)	5.809	117	418149	5.135	ppbv	99
97) Trichloroethene(sim)	7.319	130	189168	5.479	ppbv	99
103) Tetrachloroethene(sim)	9.648	166	271005	5.801	ppbv	99
113) 1,4-Dichlorobenzene(sim)	13.756	146	378446	3.851	ppbv	100
118) 1,2,4-Trichlorobenzene...	15.302	180	281447	3.232	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_09.D
 Acq On : 7 Dec 2019 8:02 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0 ppbV
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 09 10:40:59 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:40:43 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_10.D
 Acq On : 7 Dec 2019 8:38 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25 ppbV
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 10:37:46 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 08:59:27 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.485	130	231027	10.000	ng	-0.05
36) 1,4-Difluorobenzene	7.404	114	640431	10.000	ng	-0.04
53) Chlorobenzene-d5	10.970	82	410799	10.000	ng	-0.03
80) Bromochloromethane(sim)	5.481	130	243369	10.000	ng	#-0.05
94) 1,4-Difluorobenzene(sim)	7.400	114	712021	10.000	ng	#-0.05
104) Chlorobenzene-d5(sim)	10.966	82	440202	10.000	ng	-0.04
System Monitoring Compounds						
62) % Bromofluorobenzene	12.441	95	692773	11.181	ppbv	-0.04
Spiked Amount	10.000	Range	70 - 130	Recovery	=	111.80%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.492	101	216059	21.134	ppbv#	70
6) Vinyl Chloride	1.711	62	498089	22.058	ppbv	95
12) Acetone	3.347	43	837958	22.976	ppbv#	91
13) Trichlorofluoromethane	2.204	101	1653393	19.189	ppbv#	88
16) 1,1-Dichloroethene	2.663	61	934925	22.307	ppbv#	78
17) Methylene Chloride	3.279	49	589297	22.412	ppbv#	87
21) Trichlorotrifluoroethane	2.725	101	1270911	21.207	ppbv#	85
26) Cis-1,2-Dichloroethene	5.168	61	897814	28.033	ppbv#	63
32) 1,1,1-Trichloroethane	5.917	97	1346525	23.271	ppbv#	76
33) Benzene	6.473	78	1388271	26.129	ppbv#	81
34) Carbon Tetrachloride	5.809	117	1612580	23.948	ppbv	94
39) Trichloroethene	7.322	130	916287	27.790	ppbv	90
48) Toluene	9.189	91	1932152	29.169	ppbv	95
52) Tetrachloroethene	9.651	166	1296421	27.517	ppbv	91
55) Chlorobenzene	10.990	112	1643299	24.890	ppbv#	1
56) Ethylbenzene	11.066	91	2408495	25.180	ppbv	91
57) m,p-Xylene	11.251	91	3759556	55.235	ppbv	93
61) o-Xylene	11.745	91	2304642	29.201	ppbv#	90
71) 1,3-Dichlorobenzene	13.668	146	1629893	23.586	ppbv	98
72) 1,4-Dichlorobenzene	13.758	146	1835962	27.345	ppbv#	90
75) 1,2-Dichlorobenzene	14.135	146	1607707	25.062	ppbv	89
77) 1,2,4-Trichlorobenzene	15.306	180	1136803	63.200	ppbv#	88
82) Vinyl Chloride(sim)	1.707	62	532597	21.067	ppbv	100
86) Carbon Tetrachloride(sim)	5.812	117	1618027	23.014	ppbv	96
97) Trichloroethene(sim)	7.322	130	916494	29.675	ppbv#	88
103) Tetrachloroethene(sim)	9.651	166	1296311	31.022	ppbv	77
107) m,p-Xylene(sim)	11.251	91	3760649	35.814	ppbv#	93
113) 1,4-Dichlorobenzene(sim)	13.758	146	1832912	18.241	ppbv	90
118) 1,2,4-Trichlorobenzene...	15.304	180	1111916	17.684	ppbv#	73

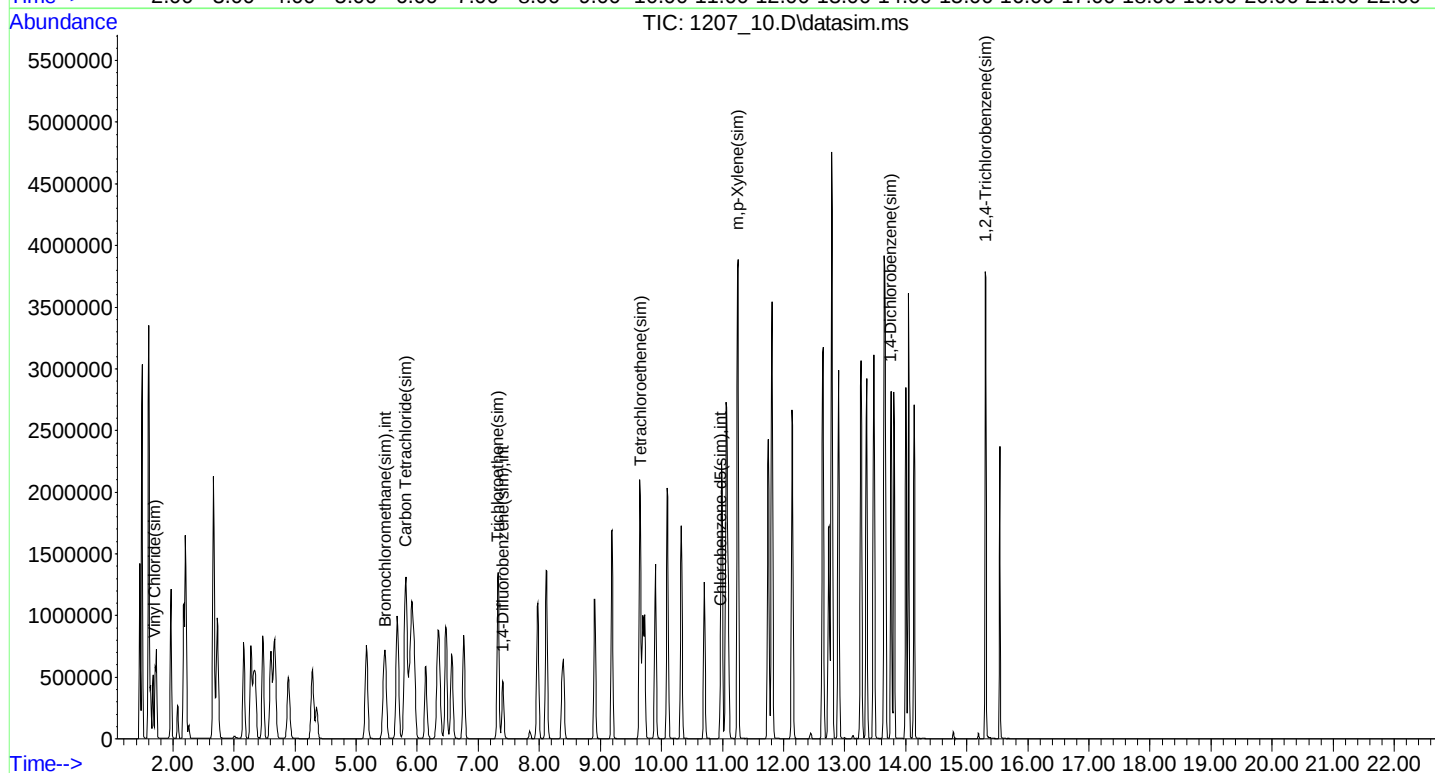
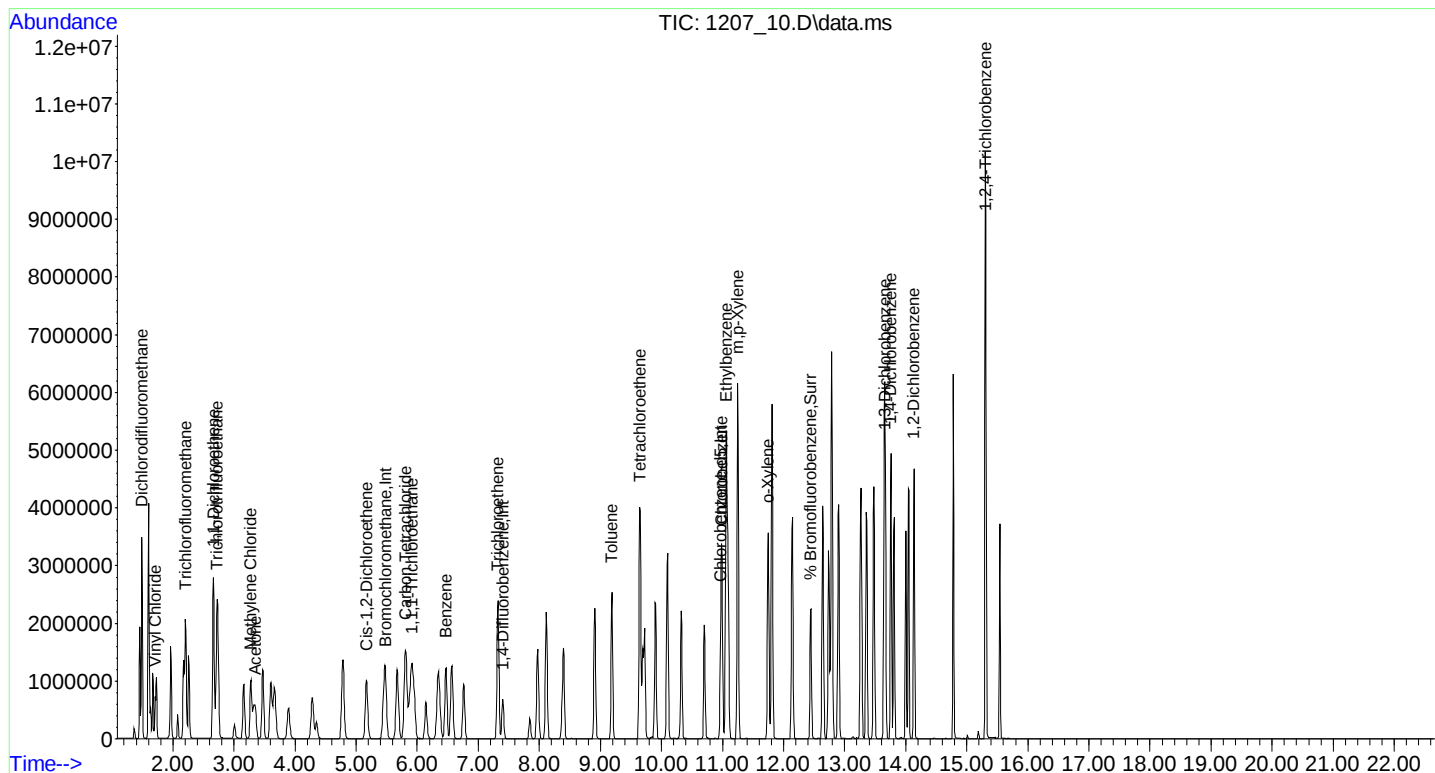
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

```

Data Path   : H:\AIR2019\CHEM24\12DEC\07A\
Data File   : 1207_10.D
Acq On      : 7 Dec 2019    8:38 pm
Operator    : Keith
Client ID   : ICAL 25
Lab ID      : 25 ppbV
ALS Vial    : 13 Sample Multiplier: 1

```

Quant Time: Dec 09 10:37:46 2019
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Dec 04 08:59:27 2019
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_11.D
 Acq On : 7 Dec 2019 9:18 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 10:38:40 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 09 09:38:28 2019
 Response via : Initial Calibration

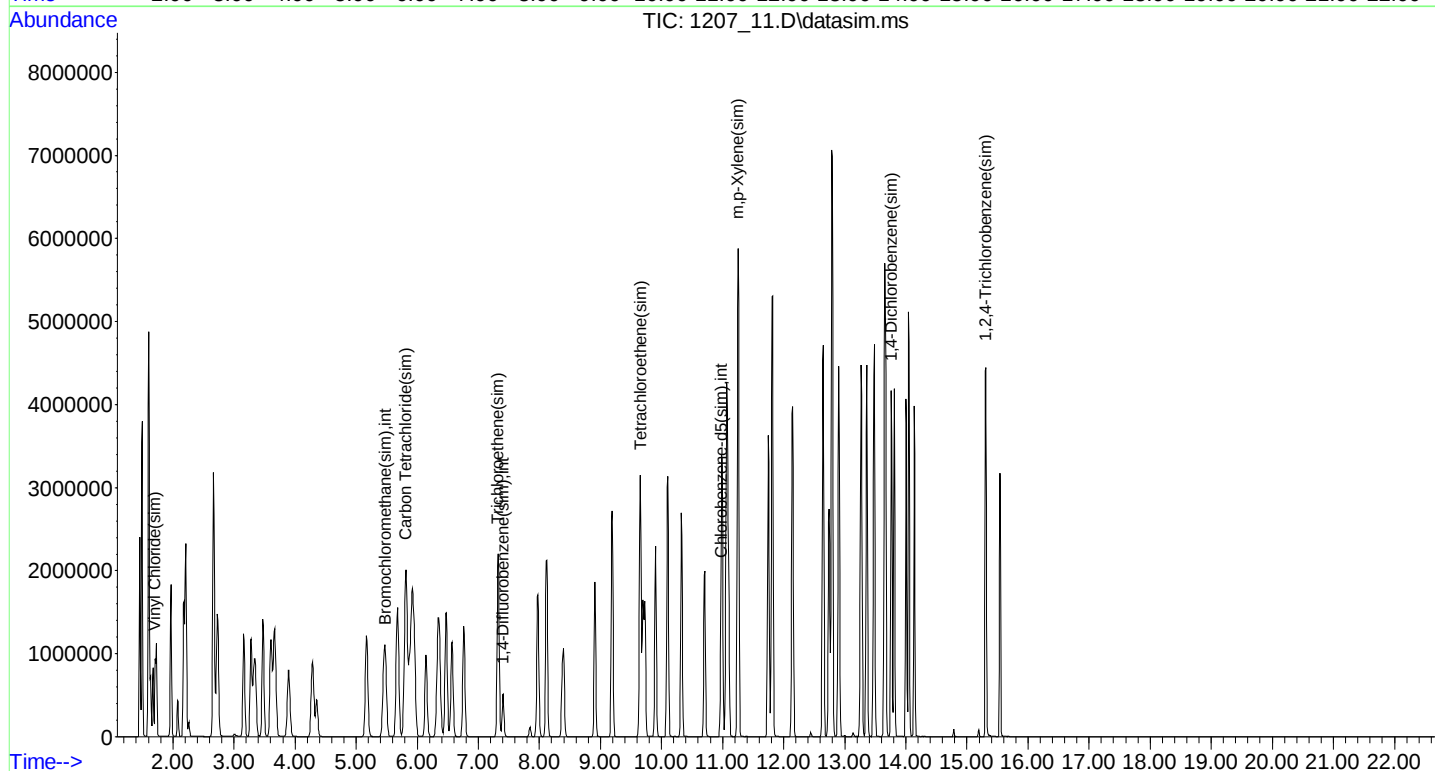
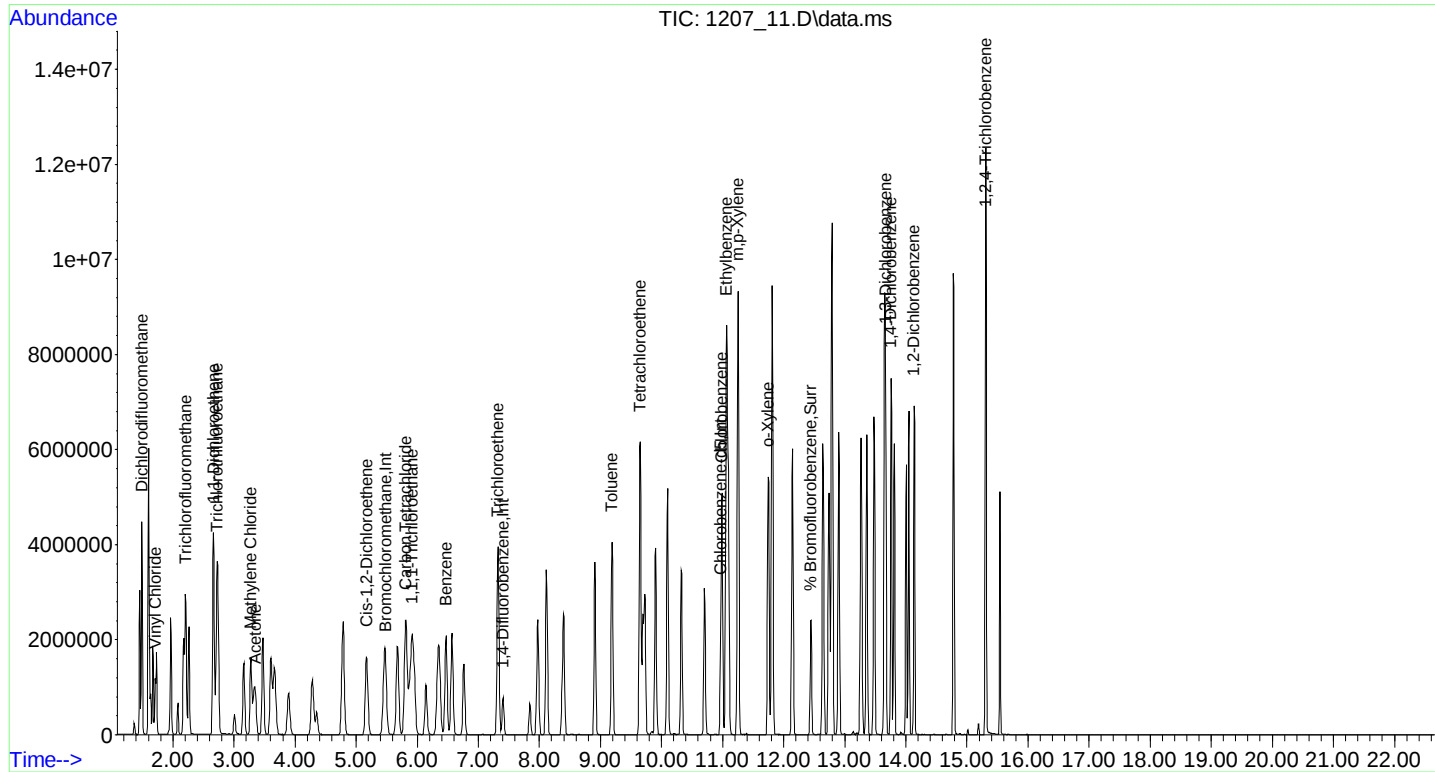
Compound	R.T	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.485	130	254707	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.405	114	724277	10.000	ng	0.00
53) Chlorobenzene-d5	10.970	82	443605	10.000	ng	0.00
80) Bromochloromethane(sim)	5.481	130	264142	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.407	114	800356	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.973	82	463192	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.441	95	758559	10.140	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.40%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.492	101	286736	25.440	ppbv	99
6) Vinyl Chloride	1.711	62	825651	33.165	ppbv	99
12) Acetone	3.354	43	1303112	32.409	ppbv	98
13) Trichlorofluoromethane	2.204	101	2410588	25.376	ppbv	100
16) 1,1-Dichloroethene	2.663	61	1473531	31.889	ppbv	100
17) Methylene Chloride	3.279	49	936270	32.298	ppbv	100
21) Trichlorotrifluoroethane	2.725	101	1988275	30.093	ppbv	99
26) Cis-1,2-Dichloroethene	5.168	61	1498758	42.445	ppbv	97
32) 1,1,1-Trichloroethane	5.917	97	2212758	34.686	ppbv	99
33) Benzene	6.473	78	2395181	40.889	ppbv	99
34) Carbon Tetrachloride	5.817	117	2638577	35.542	ppbv	100
39) Trichloroethene	7.322	130	1584245	42.485	ppbv	99
48) Toluene	9.189	91	3253832	43.436	ppbv	99
52) Tetrachloroethene	9.651	166	2187816	41.061	ppbv	99
55) Chlorobenzene	10.991	112	2768336	38.829	ppbv	99
56) Ethylbenzene	11.066	91	3926094	38.010	ppbv	98
57) m,p-Xylene	11.251	91	6074220	82.642	ppbv	97
61) o-Xylene	11.745	91	3754859	44.058	ppbv	98
71) 1,3-Dichlorobenzene	13.668	146	2544394	34.097	ppbv	99
72) 1,4-Dichlorobenzene	13.759	146	2855782	39.389	ppbv	99
75) 1,2-Dichlorobenzene	14.135	146	2460320	35.517	ppbv	99
82) Vinyl Chloride(sim)	1.707	62	874209	31.860	ppbv	99
86) Carbon Tetrachloride(sim)	5.812	117	2551346	33.436	ppbv	99
97) Trichloroethene(sim)	7.322	130	1584245	45.635	ppbv	99
103) Tetrachloroethene(sim)	9.651	166	2187217	46.566	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_11.D
 Acq On : 7 Dec 2019 9:18 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 10:38:40 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:38:28 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_13.D
 Acq On : 7 Dec 2019 10:22 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 09 10:46:08 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration

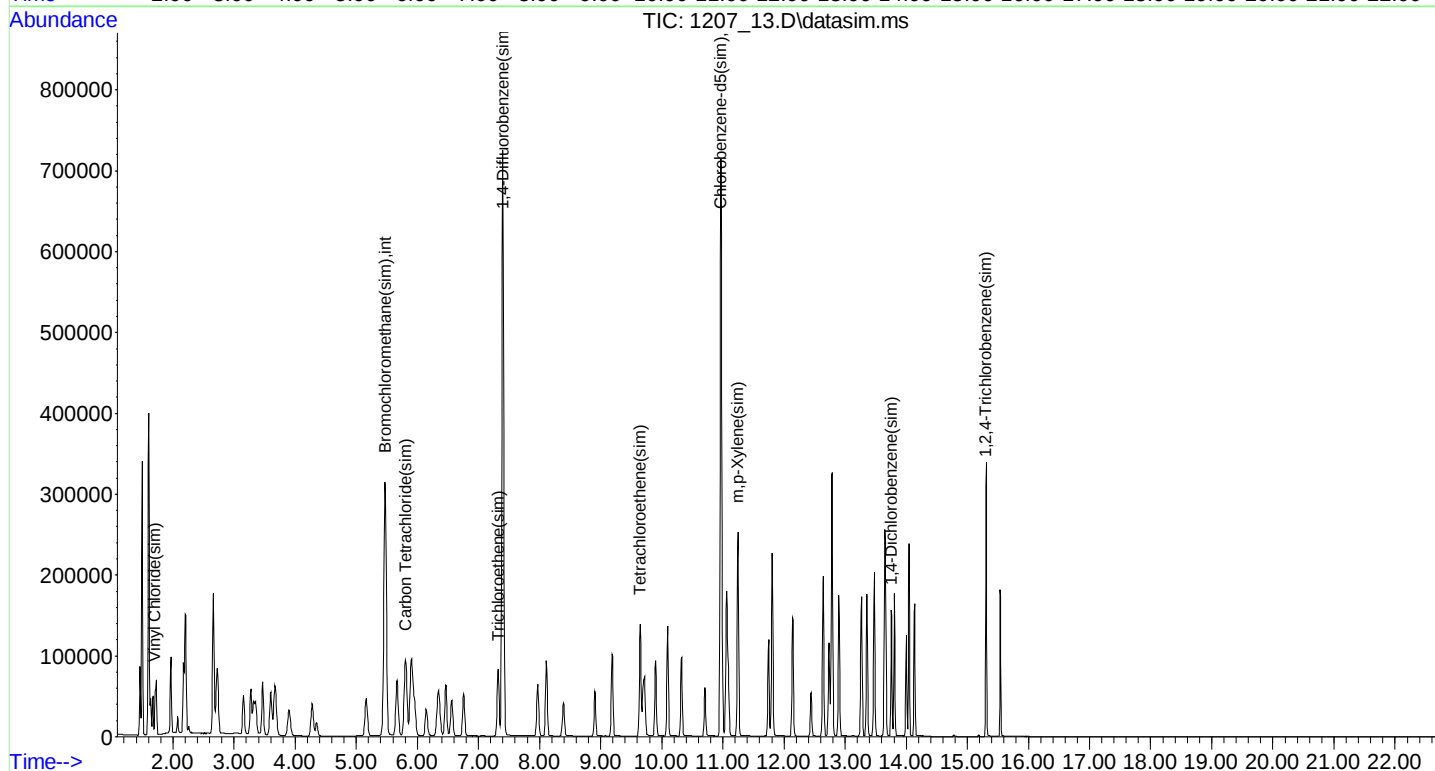
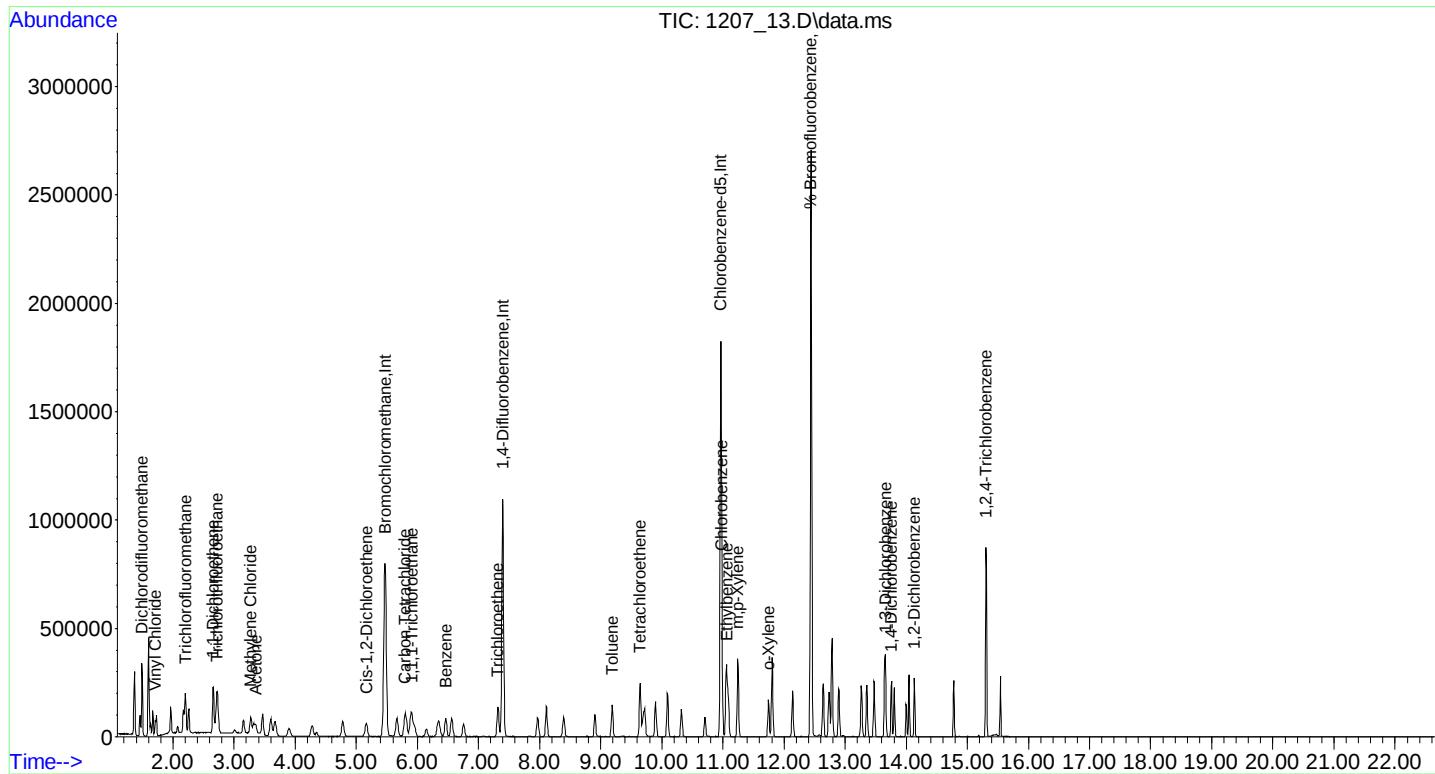
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.470	130	393482	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.398	114	1030453	10.000	ng	0.00
53) Chlorobenzene-d5	10.963	82	546106	10.000	ng	0.00
80) Bromochloromethane(sim)	5.473	130	407685	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.401	114	1136624	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.966	82	590777	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.441	95	814147	9.686	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.90%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.492	101	20746	1.191	ppbv#	86
6) Vinyl Chloride	1.711	62	47186	1.227	ppbv#	48
12) Acetone	3.354	43	70612	1.137	ppbv	96
13) Trichlorofluoromethane	2.204	101	140337	0.956	ppbv#	82
16) 1,1-Dichloroethene	2.656	61	69612	0.975	ppbv#	71
17) Methylene Chloride	3.272	49	42631	0.952	ppbv#	79
21) Trichlorotrifluoroethane	2.718	101	102059	1.000	ppbv	96
26) Cis-1,2-Dichloroethene	5.168	61	53992	0.990	ppbv#	67
32) 1,1,1-Trichloroethane	5.910	97	96720	0.981	ppbv#	77
33) Benzene	6.466	78	94915	1.049	ppbv#	91
34) Carbon Tetrachloride	5.802	117	112029	0.977	ppbv	98
39) Trichloroethene	7.322	130	53859	1.015	ppbv	91
48) Toluene	9.189	91	107774	1.011	ppbv	91
52) Tetrachloroethene	9.644	166	76784	1.013	ppbv	94
55) Chlorobenzene	10.984	112	89389	1.018	ppbv#	1
56) Ethylbenzene	11.066	91	138732	1.091	ppbv	88
57) m,p-Xylene	11.244	91	205325	2.269	ppbv#	91
61) o-Xylene	11.745	91	99316	0.947	ppbv	89
71) 1,3-Dichlorobenzene	13.661	146	101593	1.106	ppbv	95
72) 1,4-Dichlorobenzene	13.758	146	92911	1.041	ppbv#	92
75) 1,2-Dichlorobenzene	14.135	146	88803	1.041	ppbv	92
77) 1,2,4-Trichlorobenzene	15.306	180	65024	0.948	ppbv#	76
82) Vinyl Chloride(sim)	1.707	62	50456	1.191	ppbv	91
86) Carbon Tetrachloride(sim)	5.805	117	112933	0.959	ppbv	99
97) Trichloroethene(sim)	7.322	130	53859	1.092	ppbv#	84
103) Tetrachloroethene(sim)	9.644	166	76673	1.149	ppbv#	84
107) m,p-Xylene(sim)	11.244	91	205384	2.194	ppbv#	91
113) 1,4-Dichlorobenzene(sim)	13.758	146	92911	1.048	ppbv	87
118) 1,2,4-Trichlorobenzene...	15.304	180	70691	1.181	ppbv#	88

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_13.D
 Acq On : 7 Dec 2019 10:22 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 09 10:46:08 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_14.D
 Acq On : 7 Dec 2019 10:56 pm
 Operator : Keith
 Client ID : ICAL 0.2
 Lab ID : 0.2ppb
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 09 10:40:01 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 09 09:39:53 2019
 Response via : Initial Calibration

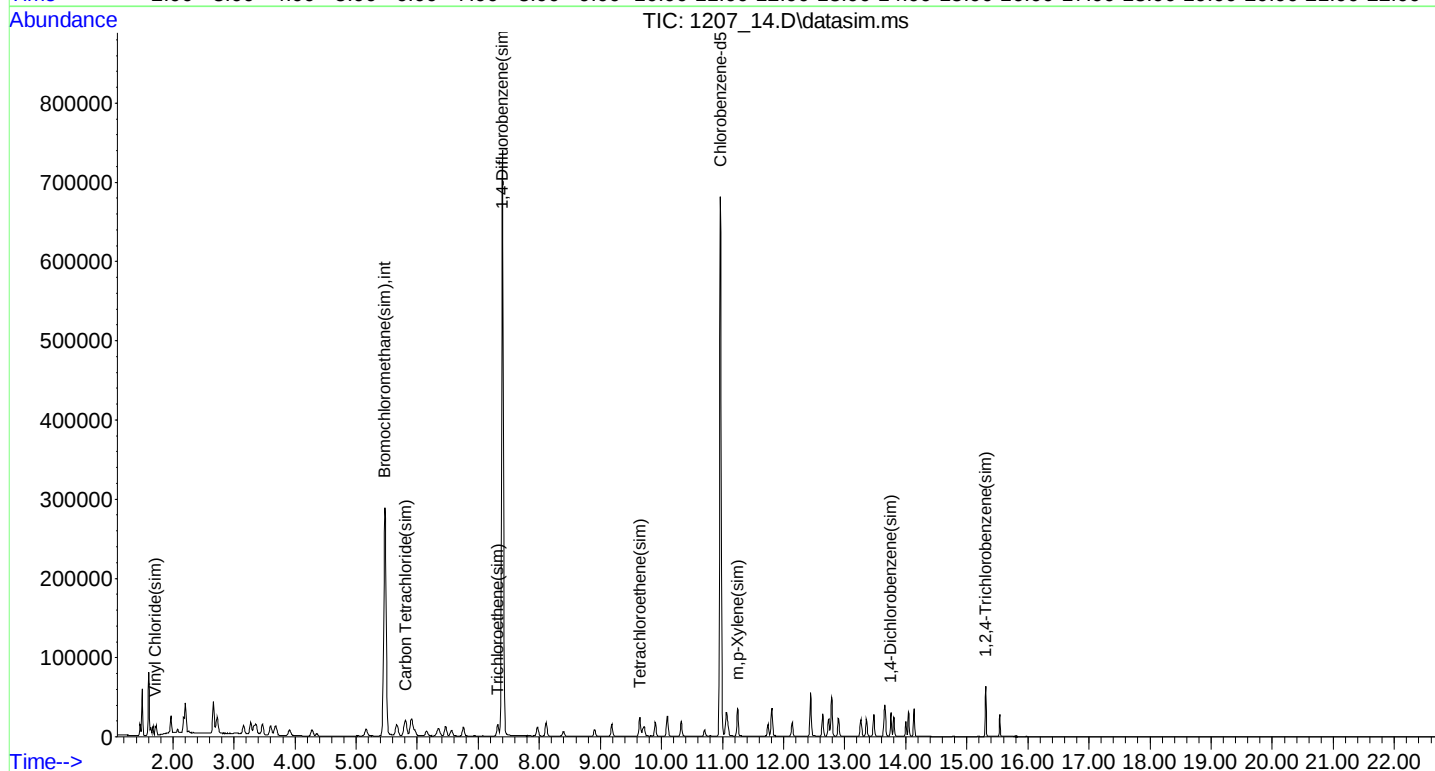
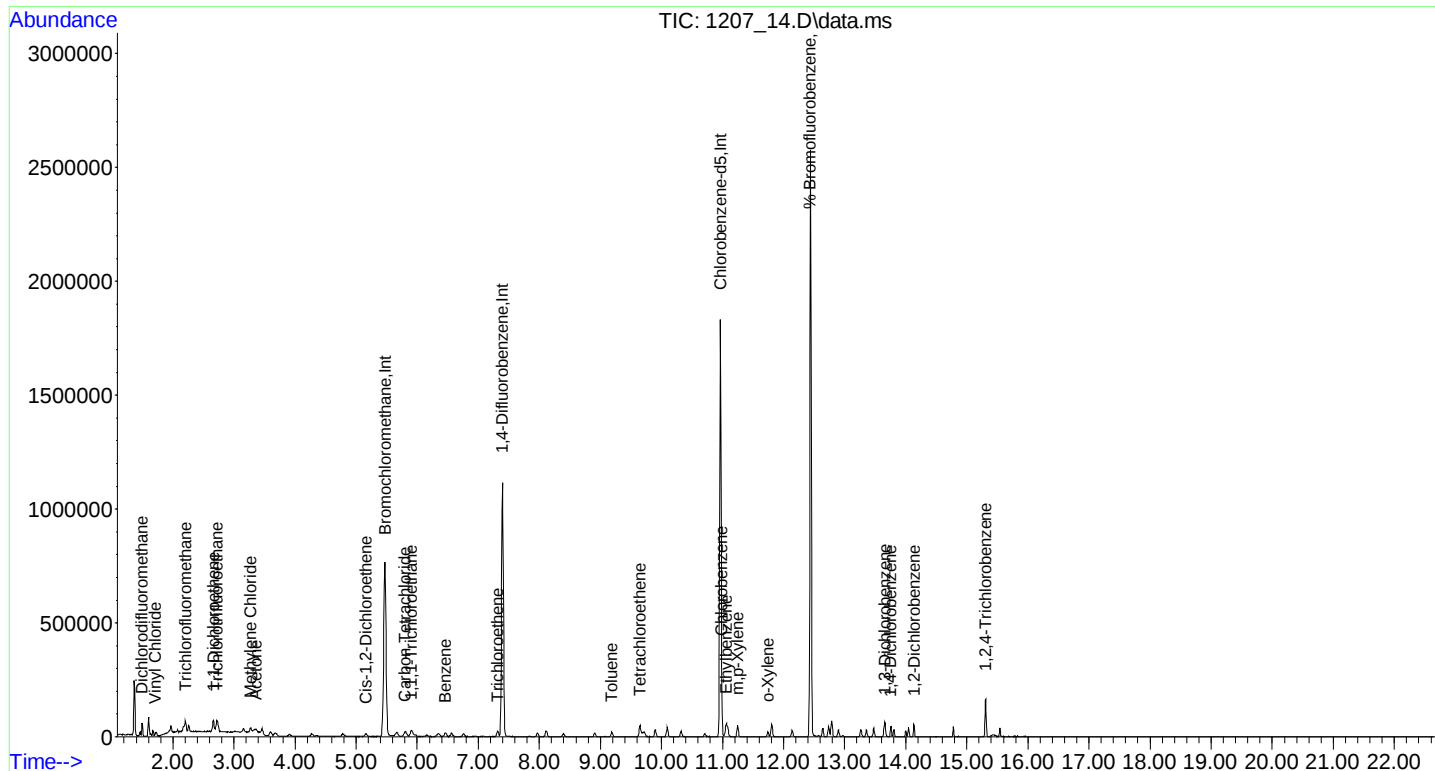
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.475	130	392207	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.395	114	989991	10.000	ng	0.00
53) Chlorobenzene-d5	10.967	82	528393	10.000	ng	0.00
80) Bromochloromethane(sim)	5.470	130	405593	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.398	114	1101675	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.963	82	576739	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.438	95	764972	8.887	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	88.90%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.499	101	3419	0.197	ppbv	88
6) Vinyl Chloride	1.711	62	9048	0.236	ppbv	99
12) Acetone	3.361	43	24160	0.390	ppbv	96
13) Trichlorofluoromethane	2.204	101	35461	0.242	ppbv	99
16) 1,1-Dichloroethene	2.663	61	16015	0.225	ppbv	99
17) Methylene Chloride	3.272	49	11705	0.262	ppbv	95
21) Trichlorotrifluoroethane	2.718	101	25342	0.249	ppbv	98
26) Cis-1,2-Dichloroethene	5.165	61	10260	0.189	ppbv	99
32) 1,1,1-Trichloroethane	5.907	97	20828	0.212	ppbv	98
33) Benzene	6.463	78	17606	0.195	ppbv	94
34) Carbon Tetrachloride	5.799	117	23120	0.202	ppbv	97
39) Trichloroethene	7.319	130	10107	0.198	ppbv	95
48) Toluene	9.186	91	15970	0.156	ppbv	96
52) Tetrachloroethene	9.648	166	13423	0.184	ppbv	97
55) Chlorobenzene	10.988	112	17541	0.207	ppbv#	59
56) Ethylbenzene	11.063	91	22692	0.184	ppbv	97
57) m,p-Xylene	11.248	91	29108	0.332	ppbv	99
61) o-Xylene	11.742	91	12920	0.127	ppbv	96
71) 1,3-Dichlorobenzene	13.665	146	19157	0.216	ppbv	99
72) 1,4-Dichlorobenzene	13.755	146	16156	0.187	ppbv	95
75) 1,2-Dichlorobenzene	14.138	146	17797	0.216	ppbv	99
77) 1,2,4-Trichlorobenzene	15.304	180	9580	0.124	ppbv	95
82] Vinyl Chloride(sim)	1.714	62	9789	0.232	ppbv	100
86] Carbon Tetrachloride(sim)	5.809	117	23672	0.202	ppbv	100
97] Trichloroethene(sim)	7.319	130	9996	0.209	ppbv	95
103] Tetrachloroethene(sim)	9.648	166	13423	0.208	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_14.D
 Acq On : 7 Dec 2019 10:56 pm
 Operator : Keith
 Client ID : ICAL 0.2
 Lab ID : 0.2ppb
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 09 10:40:01 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:39:53 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_15.D
 Acq On : 7 Dec 2019 11:28 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 10:40:29 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:40:21 2019
 Response via : Initial Calibration

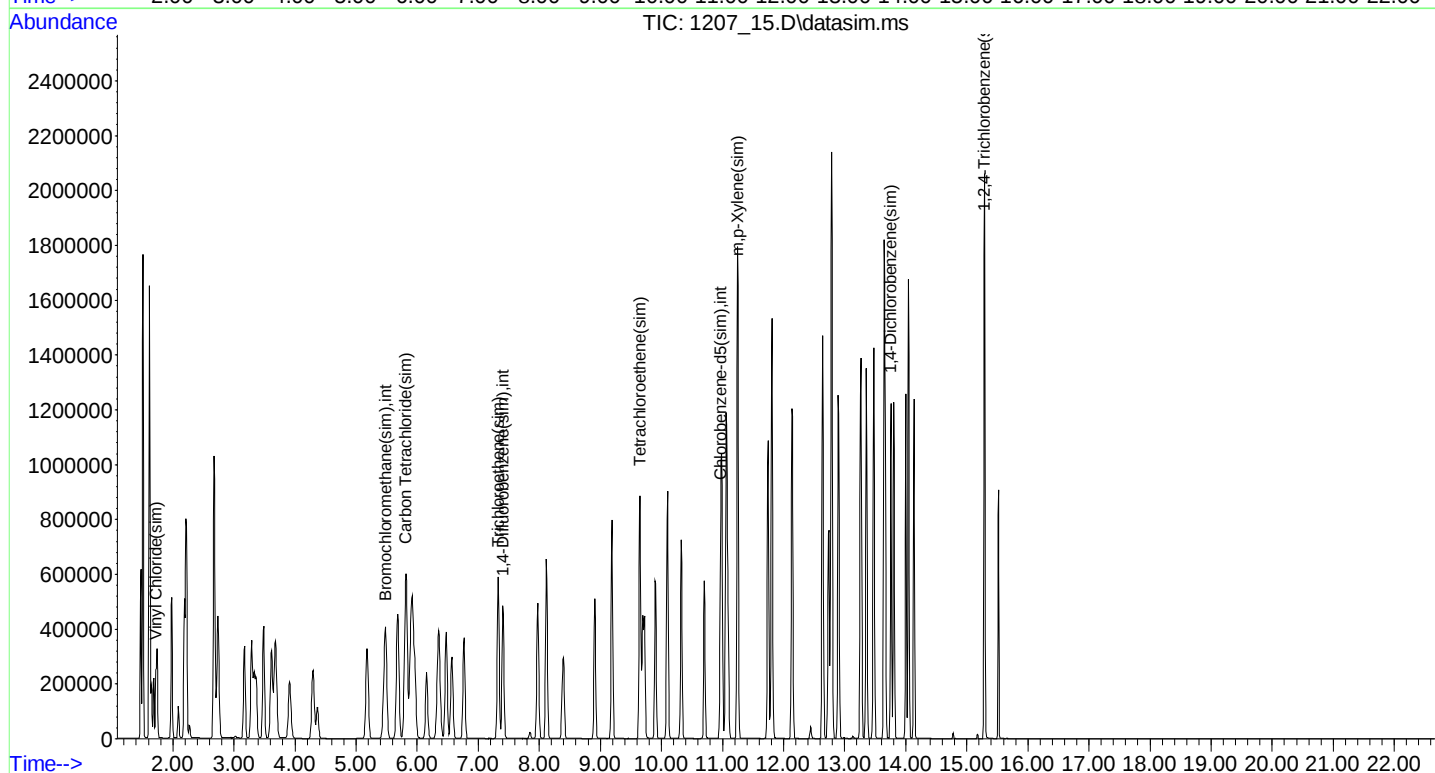
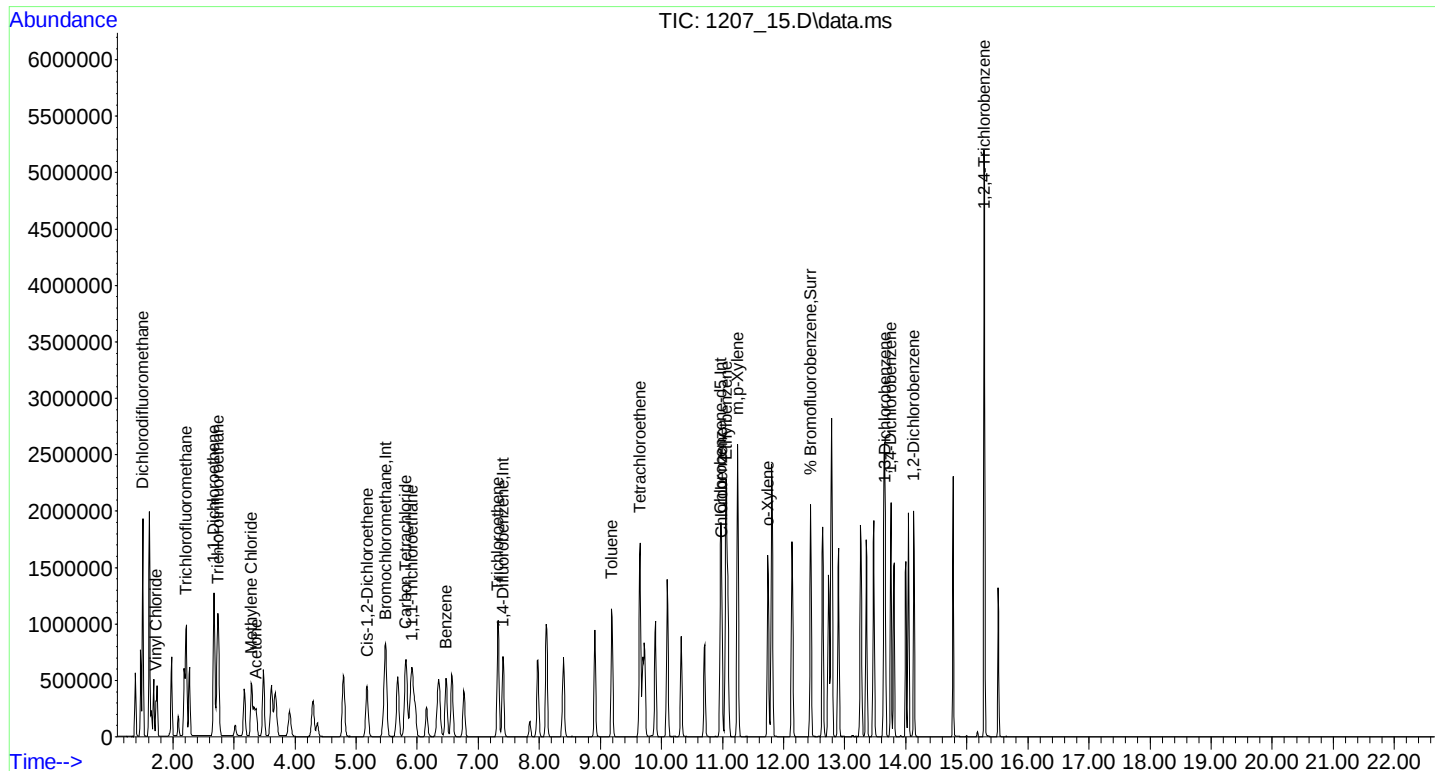
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.489	130	246610	10.000	ng	0.01
36) 1,4-Difluorobenzene	7.402	114	656013	10.000	ng	0.00
53) Chlorobenzene-d5	10.967	82	399206	10.000	ng	0.00
80) Bromochloromethane(sim)	5.485	130	256686	10.000	ng	# 0.01
94) 1,4-Difluorobenzene(sim)	7.405	114	733812	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.970	82	427901	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.445	95	632393	10.002	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.00%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.506	101	114697	10.510	ppbv	91
6) Vinyl Chloride	1.725	62	212012	8.796	ppbv	99
12) Acetone	3.361	43	384373	9.873	ppbv	94
13) Trichlorofluoromethane	2.218	101	787426	8.561	ppbv	99
16) 1,1-Dichloroethene	2.670	61	424020	9.478	ppbv	98
17) Methylene Chloride	3.286	49	264681	9.430	ppbv	96
21) Trichlorotrifluoroethane	2.738	101	574586	8.982	ppbv	99
26) Cis-1,2-Dichloroethene	5.179	61	381069	11.146	ppbv	97
32) 1,1,1-Trichloroethane	5.922	97	594032	9.617	ppbv	98
33) Benzene	6.477	78	581190	10.248	ppbv	94
34) Carbon Tetrachloride	5.814	117	716198	9.964	ppbv	99
39) Trichloroethene	7.326	130	376895	11.159	ppbv	96
48) Toluene	9.186	91	831219	12.251	ppbv	97
52) Tetrachloroethene	9.648	166	524131	10.861	ppbv	98
55) Chlorobenzene	10.988	112	662020	10.318	ppbv#	58
56) Ethylbenzene	11.063	91	987627	10.625	ppbv	96
57) m,p-Xylene	11.248	91	1546363	23.379	ppbv	98
61) o-Xylene	11.743	91	965328	12.587	ppbv	96
71) 1,3-Dichlorobenzene	13.665	146	667998	9.947	ppbv	98
72) 1,4-Dichlorobenzene	13.756	146	723374	11.087	ppbv	96
75) 1,2-Dichlorobenzene	14.132	146	657521	10.548	ppbv	99
77) 1,2,4-Trichlorobenzene	15.285	180	454282	8.699	ppbv	95
82) Vinyl Chloride(sim)	1.721	62	228495	8.569	ppbv	99
86) Carbon Tetrachloride(sim)	5.817	117	735480	9.919	ppbv	99
97) Trichloroethene(sim)	7.326	130	376895	11.841	ppbv	94
103) Tetrachloroethene(sim)	9.648	166	524131	12.171	ppbv	98
113) 1,4-Dichlorobenzene(sim)	13.756	146	723873	6.258	ppbv	96
118) 1,2,4-Trichlorobenzene...	15.288	180	466966	4.579	ppbv	95

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\07A\
 Data File : 1207_15.D
 Acq On : 7 Dec 2019 11:28 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 09 10:40:29 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:40:21 2019
 Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK
Initial Cal as Continuing Cal

Lab Name: Phoenix Environmental Labs Client: _____

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607

Instrument: CHEM20 Calibration Date: 12/04/19 Time: 02:38

Lab File Id: 1204_13.D Init. Calib. Date(s): 12/03/19 12/04/19

Heated Purge (Y/N): Y Init. Calib. Times: 20:28 03:51

GC Column: RTX-1 60M Method File: 20_AIR_1203_wal.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	5.340	5.688		-6.5	30
Vinyl Chloride	1.245	1.279		-2.7	30
Acetone	2.137	2.054		3.9	30
Trichlorofluoromethane	4.811	4.837		-0.5	30
1,1-Dichloroethene	2.379	2.382		-0.1	30
Methylene Chloride	1.547	1.571		-1.6	30
Trichlorotrifluoroethane	2.672	2.738		-2.5	30
Cis-1,2-Dichloroethene	2.033	2.027		0.3	30
1,1,1-Trichloroethane	3.534	3.489		1.3	30
Benzene	2.950	2.578		12.6	30
Carbon Tetrachloride	3.987	3.903		2.1	30
Trichloroethene	0.376	0.370		1.6	30
Toluene	0.944	0.962		-1.9	30
Tetrachloroethene	0.485	0.444		8.5	30
Chlorobenzene	1.368	1.408		-2.9	30
Ethylbenzene	2.299	2.420		-5.3	30
m,p-Xylene	1.757	1.549		11.8	30
o-Xylene	1.947	2.037		-4.6	30
1,3-Dichlorobenzene	1.353	1.314		2.9	30
1,4-Dichlorobenzene	1.318	1.299		1.4	30
1,2-Dichlorobenzene	1.343	1.370		-2.0	30
1,2,4-Trichlorobenzene	0.917	0.898		2.1	30
Vinyl Chloride(sim)	0.998	0.957		4.1	30
Benzene(sim)	2.298	1.929		16.1	30
Carbon Tetrachloride(sim)	3.825	3.609		5.6	30
Trichloroethene(sim)	0.370	0.314		15.1	30
Tetrachloroethene(sim)	0.421	0.378		10.2	30
m,p-Xylene(sim)	1.936	1.911		1.3	30
1,4-Dichlorobenzene(sim)	1.253	1.268		-1.2	30
% Bromofluorobenzene	1.370	1.358		0.9	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_13.D
 Acq On : 04 Dec 2019 02:38 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE
 Lab ID : 1ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:30:58 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

Note: Curves (l,lf,g,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	100
2	Dichlorodifluoromethane	5.340	5.688	-6.5	
3	Vinyl Chloride	1.245	1.279	-2.7	
4	Acetone	2.137	2.139	-0.1	
5	Trichlorofluoromethane	4.811	4.837	-0.5	
6	1,1-Dichloroethene	2.379	2.382	-0.1	
7	Methylene Chloride	1.547	1.571	-1.6	
8	Trichlorotrifluoroethane	2.672	2.742	-2.6	
10	Cis-1,2-Dichloroethene	2.033	2.027	0.3	
12	1,1,1-Trichloroethane	3.534	3.489	1.3	
13	Benzene	2.950	2.578	12.6	
14	Carbon Tetrachloride	3.987	3.903	2.1	
15 Int	1,4-Difluorobenzene	1.000	1.000	0.0	100
17	Trichloroethene	0.376	0.370	1.6	
18	Toluene	0.944	0.962	-1.9	
19	Tetrachloroethene	0.485	0.444	8.5	
20 Int	Chlorobenzene-d5	1.000	1.000	0.0	100
21	Chlorobenzene	1.368	1.410	-3.1	
22	Ethylbenzene	2.299	2.423	-5.4	
23	m,p-Xylene	1.757	1.551	11.7	
24	o-Xylene	1.947	2.039	-4.7	
25 Surr	% Bromofluorobenzene	1.370	1.359	0.8	
26	1,3-Dichlorobenzene	1.353	1.316	2.7	
27	1,4-Dichlorobenzene	1.318	1.301	1.3	
28	1,2-Dichlorobenzene	1.343	1.371	-2.1	
29	1,2,4-Trichlorobenzene	0.917	0.900	1.9	
30 int	Bromochloromethane(sim)	1.000	1.000	0.0	100
31	Vinyl Chloride(sim)	0.998	0.960	3.8	
35	Benzene(sim)	2.298	1.935	15.8	
36	Carbon Tetrachloride(sim)	3.825	3.621	5.3	
42 int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	100
45	Trichloroethene(sim)	0.370	0.314	15.1	
47	Tetrachloroethene(sim)	0.421	0.378	10.2	
48 int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	100
49	m,p-Xylene(sim)	1.936	1.910	1.3	
51	1,4-Dichlorobenzene(sim)	1.253	1.267	-1.1	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_13.D
 Acq On : 04 Dec 2019 02:38 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE
 Lab ID : 1ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:30:58 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

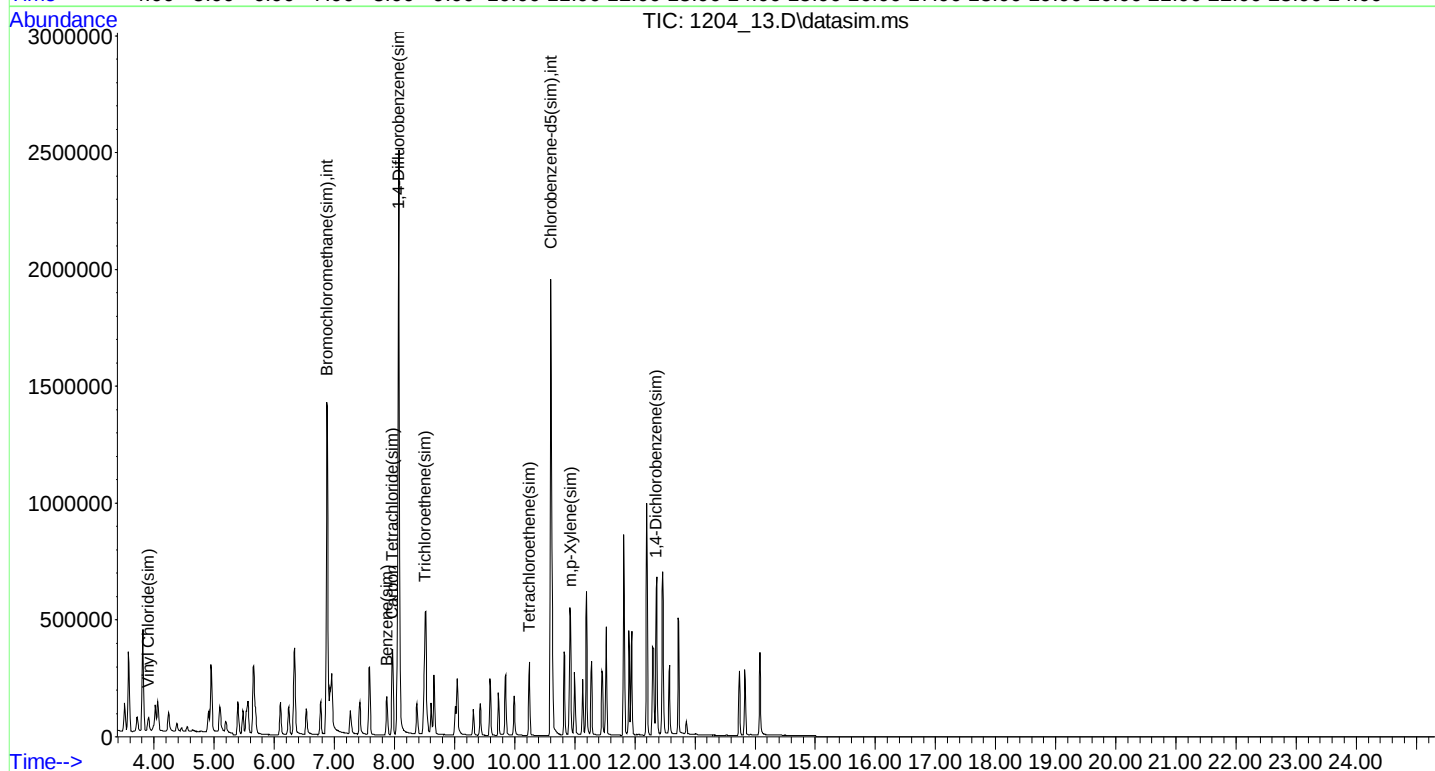
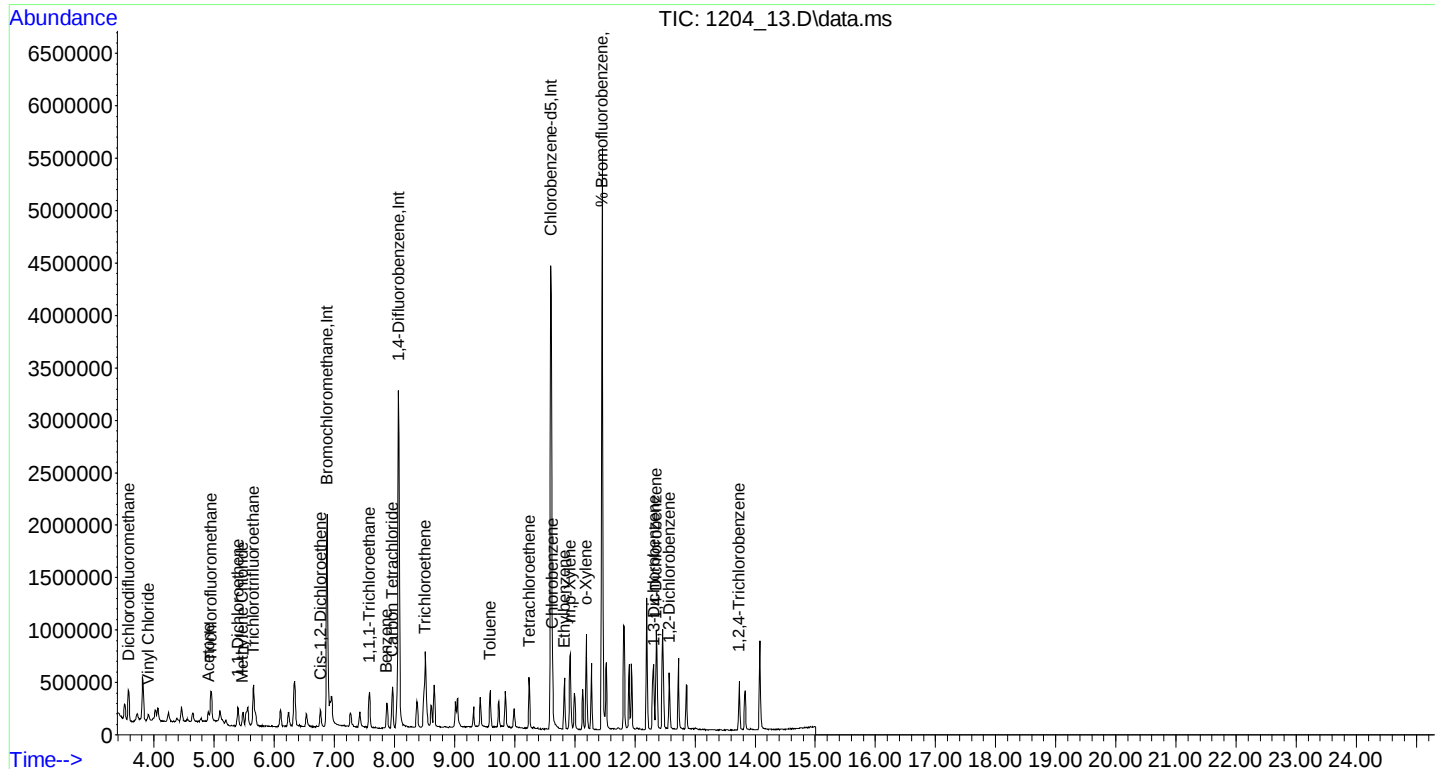
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	540886	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.067	114	2089883	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1118479	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	720672	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2462432	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1148197	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1520479	9.921	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.574	85	307680	1.065	ppbv	99
3) Vinyl Chloride	3.907	62	69157	1.027	ppbv	96
4) Acetone	4.905	43	115679	1.001	ppbv	100
5) Trichlorofluoromethane	4.953	101	261634	1.005	ppbv	99
6) 1,1-Dichloroethene	5.394	61	128820	1.001	ppbv	95
7) Methylene Chloride	5.477	49	84949	1.015	ppbv	98
8) Trichlorotrifluoroethane	5.656	101	148326	1.026	ppbv	99
10) Cis-1,2-Dichloroethene	6.768	61	109639	0.997	ppbv	95
12) 1,1,1-Trichloroethane	7.585	97	188723	0.987	ppbv	99
13) Benzene	7.873	78	139465	0.874	ppbv	98
14) Carbon Tetrachloride	7.966	117	211093	0.979	ppbv	100
17) Trichloroethene	8.508	130	77406	0.985	ppbv	98
18) Toluene	9.594	91	201148	1.020	ppbv	97
19) Tetrachloroethene	10.242	166	92835	0.916	ppbv	97
21) Chlorobenzene	10.630	112	157666	1.030	ppbv	87
22) Ethylbenzene	10.828	91	271054	1.054	ppbv	98
23) m,p-Xylene	10.926	91	433783	2.207	ppbv	99
24) o-Xylene	11.192	91	228108	1.048	ppbv	99
26) 1,3-Dichlorobenzene	12.315	146	147173	0.973	ppbv	99
27) 1,4-Dichlorobenzene	12.353	146	145480	0.987	ppbv	98
28) 1,2-Dichlorobenzene	12.573	146	153393	1.021	ppbv	97
29) 1,2,4-Trichlorobenzene	13.735	180	100609	0.981	ppbv	99
31) Vinyl Chloride(sim)	3.907	62	69157	0.962	ppbv	96
35) Benzene(sim)	7.873	78	139465	0.842	ug/l	98
36) Carbon Tetrachloride(sim)	7.969	117	260948	0.947	ppbv	99
45) Trichloroethene(sim)	8.508	130	77406	0.850	ppbv	98
47) Tetrachloroethene(sim)	10.242	166	93054	0.897	ppbv	98
49) m,p-Xylene(sim)	10.926	91	438598	1.973	ppbv	99
51) 1,4-Dichlorobenzene(sim)	12.353	146	145480	1.011	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_13.D
 Acq On : 04 Dec 2019 02:38 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE
 Lab ID : 1ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:30:58 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: _____

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCE70607

Instrument: CHEM24 Calibration Date: 12/08/19 Time: 23:01

Lab File Id: 1208_02.D Init. Calib. Date(s): 12/07/19 12/07/19

Heated Purge (Y/N): Y Init. Calib. Times: 16:38 23:28

GC Column: RTX-VMS Method File: 24AIR_1207.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	0.443	0.536		-21.0	30
Vinyl Chloride	0.977	1.081		-10.6	30
Acetone	1.579	1.766		-11.8	30
Trichlorofluoromethane	3.730	4.368		-17.1	30
1,1-Dichloroethene	1.814	1.972		-8.7	30
Methylene Chloride	1.138	1.244		-9.3	30
Trichlorotrifluoroethane	2.594	2.943		-13.5	30
Cis-1,2-Dichloroethene	1.386	1.302		6.1	30
1,1,1-Trichloroethane	2.505	2.673		-6.7	30
Benzene	2.300	2.345		-2.0	30
Carbon Tetrachloride	2.915	3.039		-4.3	30
Trichloroethene	0.515	0.502		2.5	30
Toluene	1.034	0.987		4.5	30
Tetrachloroethene	0.736	0.730		0.8	30
Chlorobenzene	1.607	1.668		-3.8	30
Ethylbenzene	2.328	2.582		-10.9	30
m,p-Xylene	1.657	1.502		9.4	30
o-Xylene	1.921	1.676		12.8	30
1,3-Dichlorobenzene	1.682	1.908		-13.4	30
1,4-Dichlorobenzene	1.634	1.766		-8.1	30
1,2-Dichlorobenzene	1.562	1.667		-6.7	30
1,2,4-Trichlorobenzene qfi	1.000	0.76		24.0 #	20
Vinyl Chloride(sim)	1.039	1.126		-8.4	30
Carbon Tetrachloride(sim)	2.889	3.027		-4.8	30
Trichloroethene(sim)	0.434	0.447		-3.0	30
Tetrachloroethene(sim)	0.587	0.650		-10.7	30
m,p-Xylene(sim) qfi	2.000	2.19		-9.5	20
1,4-Dichlorobenzene(sim) q	1.000	1.08		-8.0	20
1,2,4-Trichlorobenzene(sim) q	1.000	0.97		3.0	20
% Bromofluorobenzene	1.539	1.516		1.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_02.D
 Acq On : 8 Dec 2019 11:01 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 10:50:17 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration

Note: Curves (l,lf,g,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	79
3	Dichlorodifluoromethane	0.443	0.536	-21.0	
6	Vinyl Chloride	0.977	1.081	-10.6	
12	Acetone	1.579	1.766	-11.8	
13	Trichlorofluoromethane	3.730	4.368	-17.1	
16	1,1-Dichloroethene	1.814	1.972	-8.7	
17	Methylene Chloride	1.138	1.244	-9.3	
21	Trichlorotrifluoroethane	2.594	2.943	-13.5	
26	Cis-1,2-Dichloroethene	1.386	1.302	6.1	
32	1,1,1-Trichloroethane	2.505	2.673	-6.7	
33	Benzene	2.300	2.345	-2.0	
34	Carbon Tetrachloride	2.915	3.039	-4.3	
36 Int	1,4-Difluorobenzene	1.000	1.000	0.0	78
39	Trichloroethene	0.515	0.502	2.5	
48	Toluene	1.034	0.987	4.5	
52	Tetrachloroethene	0.736	0.730	0.8	
53 Int	Chlorobenzene-d5	1.000	1.000	0.0	81
55	Chlorobenzene	1.607	1.668	-3.8	
56	Ethylbenzene	2.328	2.582	-10.9	
57	m,p-Xylene	1.657	1.502	9.4	
61	o-Xylene	1.921	1.676	12.8	
62 Surr	% Bromofluorobenzene	1.539	1.516	1.5	
71	1,3-Dichlorobenzene	1.682	1.908	-13.4	
72	1,4-Dichlorobenzene	1.634	1.766	-8.1	
75	1,2-Dichlorobenzene	1.562	1.667	-6.7	
77 qf	1,2,4-Trichlorobenzene	1.000	0.758	24.2	
80 int	Bromochloromethane(sim)	1.000	1.000	0.0	80
82	Vinyl Chloride(sim)	1.039	1.126	-8.4	
86	Carbon Tetrachloride(sim)	2.889	3.027	-4.8	
94 int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	80
97	Trichloroethene(sim)	0.434	0.447	-3.0	
103	Tetrachloroethene(sim)	0.587	0.650	-10.7	
104 int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	81
107 qf	m,p-Xylene(sim)	2.000	2.186	-9.3	
113 qf	1,4-Dichlorobenzene(sim)	1.000	1.083	-8.3	
118 qf	1,2,4-Trichlorobenzene(sim)	1.000	0.965	3.5#	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_02.D
 Acq On : 8 Dec 2019 11:01 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 10:50:17 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration

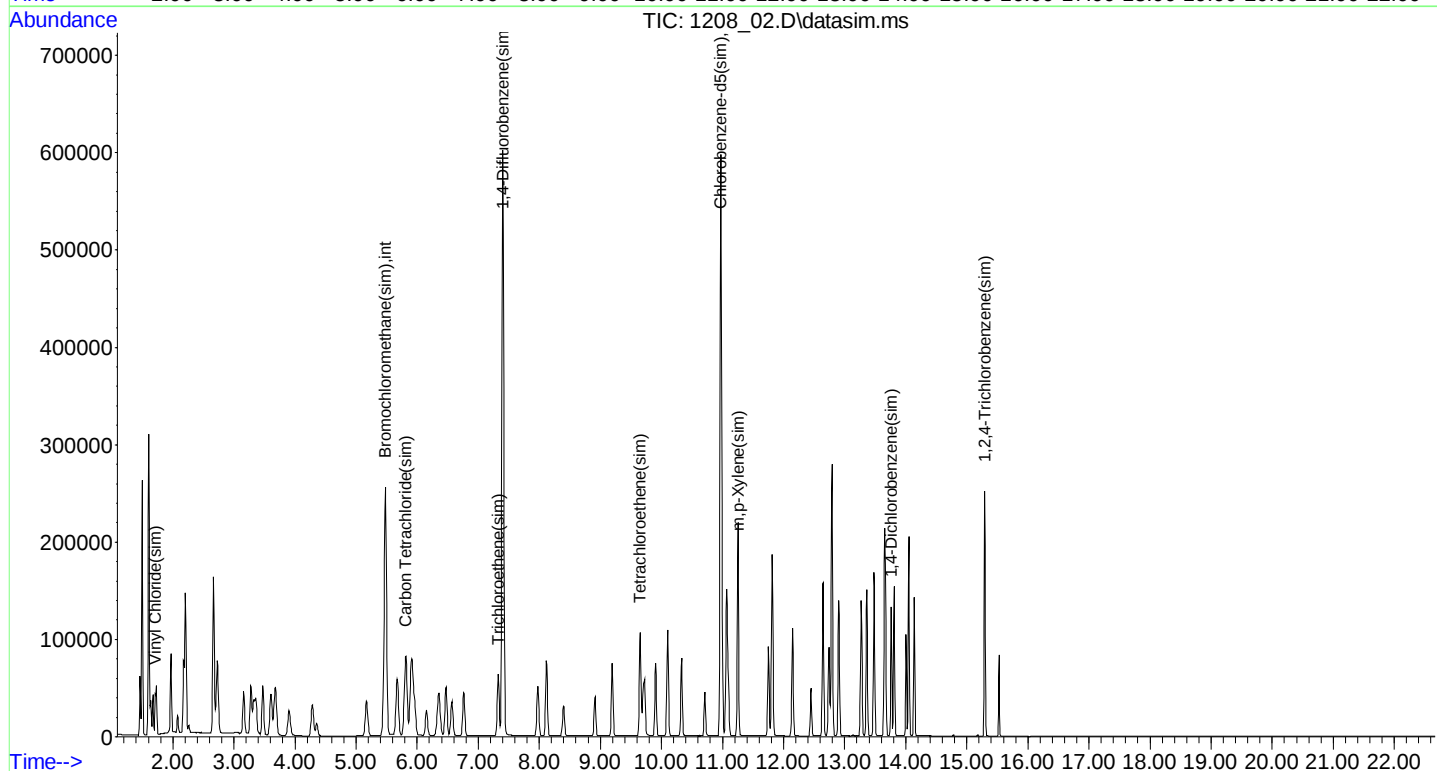
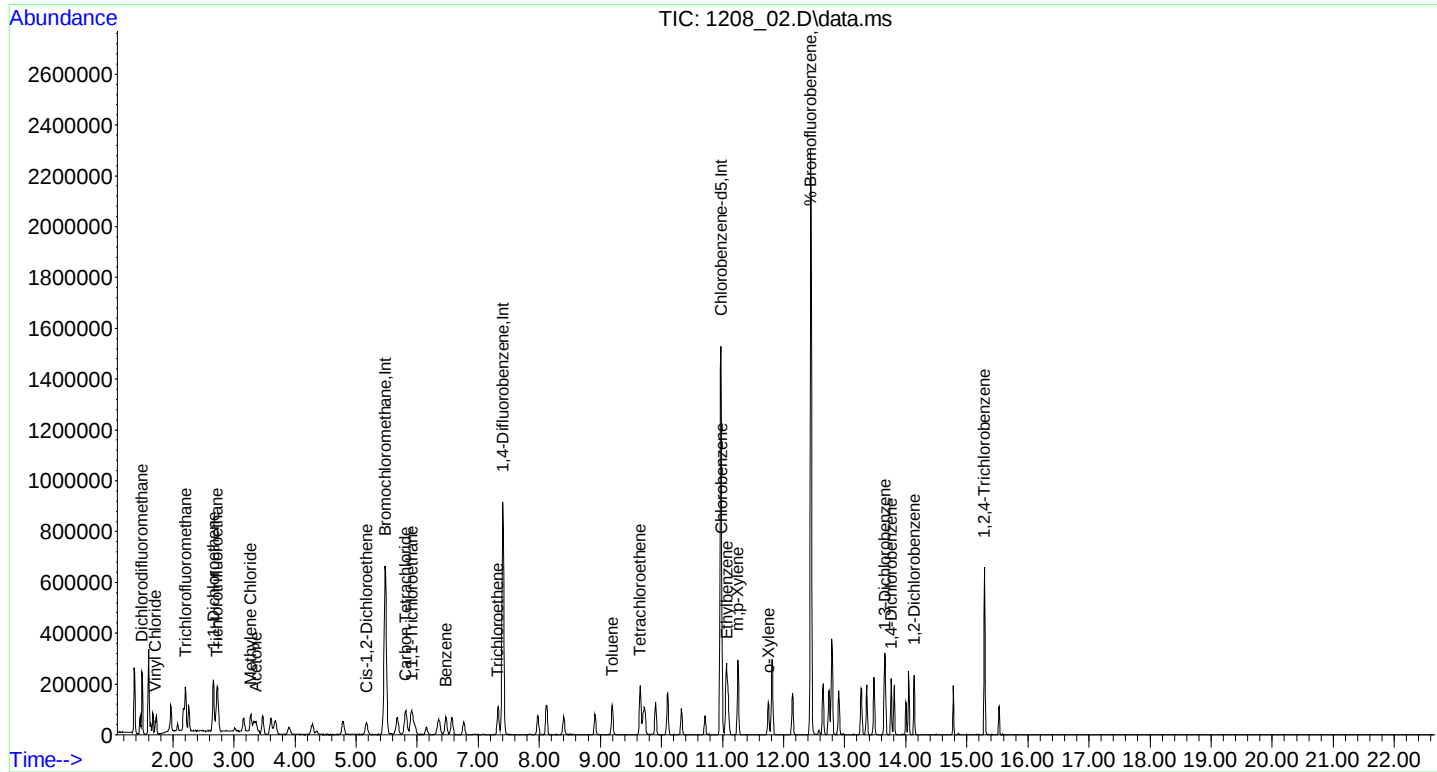
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.475	130	310891	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.402	114	806456	10.000	ng	0.00
53) Chlorobenzene-d5	10.974	82	442586	10.000	ng	0.00
80) Bromochloromethane(sim)	5.478	130	324293	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.405	114	904937	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.970	82	480002	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.445	95	670810	9.847	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.50%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.492	101	16649	1.210	ppbv#	84
6) Vinyl Chloride	1.711	62	33605	1.106	ppbv	49
12) Acetone	3.361	43	54892m	1.118	ppbv	96
13) Trichlorofluoromethane	2.204	101	135809	1.171	ppbv#	81
16) 1,1-Dichloroethene	2.663	61	61298	1.087	ppbv#	73
17) Methylene Chloride	3.279	49	38683	1.093	ppbv#	81
21) Trichlorotrifluoroethane	2.725	101	91485	1.134	ppbv	95
26) Cis-1,2-Dichloroethene	5.172	61	40482	0.939	ppbv#	69
32) 1,1,1-Trichloroethane	5.915	97	83100	1.067	ppbv#	77
33) Benzene	6.470	78	72905	1.020	ppbv#	89
34) Carbon Tetrachloride	5.814	117	94470	1.043	ppbv	98
39) Trichloroethene	7.326	130	40470	0.975	ppbv	90
48) Toluene	9.193	91	79626	0.955	ppbv	92
52) Tetrachloroethene	9.648	166	58865	0.992	ppbv	93
55) Chlorobenzene	10.988	112	73830	1.038	ppbv#	1
56) Ethylbenzene	11.070	91	114287	1.109	ppbv	88
57) m,p-Xylene	11.255	91	166157	2.266	ppbv#	93
61) o-Xylene	11.749	91	74175	0.872	ppbv	89
71) 1,3-Dichlorobenzene	13.665	146	84431	1.134	ppbv	96
72) 1,4-Dichlorobenzene	13.762	146	78169	1.081	ppbv#	91
75) 1,2-Dichlorobenzene	14.139	146	73770	1.067	ppbv	92
77) 1,2,4-Trichlorobenzene	15.290	180	42166	0.758	ppbv#	76
82) Vinyl Chloride(sim)	1.714	62	36521	1.084	ppbv	91
86) Carbon Tetrachloride(sim)	5.817	117	98153	1.048	ppbv	99
97) Trichloroethene(sim)	7.326	130	40470	1.031	ppbv#	84
103) Tetrachloroethene(sim)	9.648	166	58784	1.107	ppbv#	82
107) m,p-Xylene(sim)	11.255	91	166238	2.186	ppbv#	93
113) 1,4-Dichlorobenzene(sim)	13.762	146	78108	1.083	ppbv	86
118) 1,2,4-Trichlorobenzene...	15.293	180	46312	0.965	ppbv#	89

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_02.D
 Acq On : 8 Dec 2019 11:01 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc ; 31w - 1ppb cc ; 31w
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 10:50:17 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration



CE70607 LCS

ppbv

CAS NO.

COMPOUND

CONC.

Q

MDL

PQL

R

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_16.D
 Acq On : 04 Dec 2019 04:29 am
 Operator : CORTEX\ms
 Client ID : CE70607 LCS
 Lab ID : CE70607 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:30:45 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

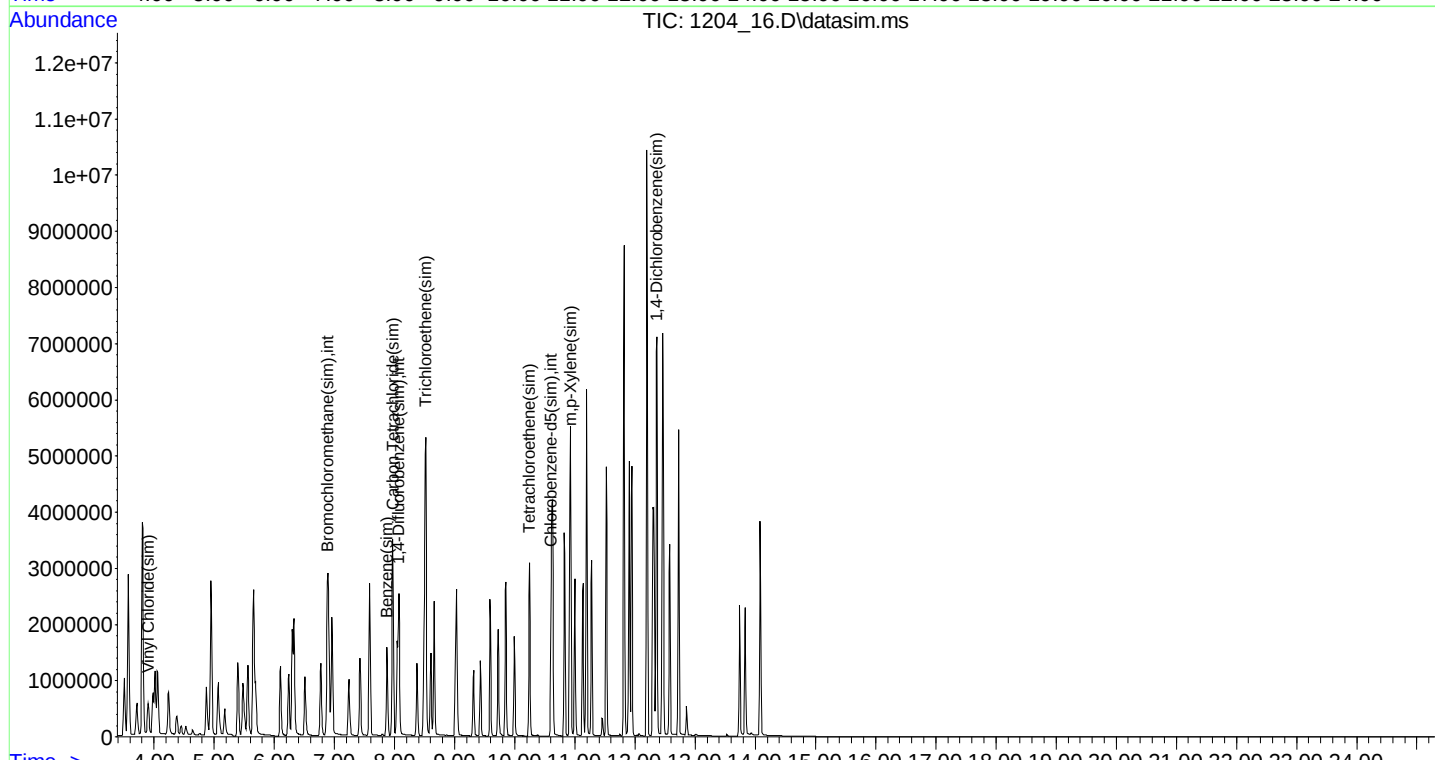
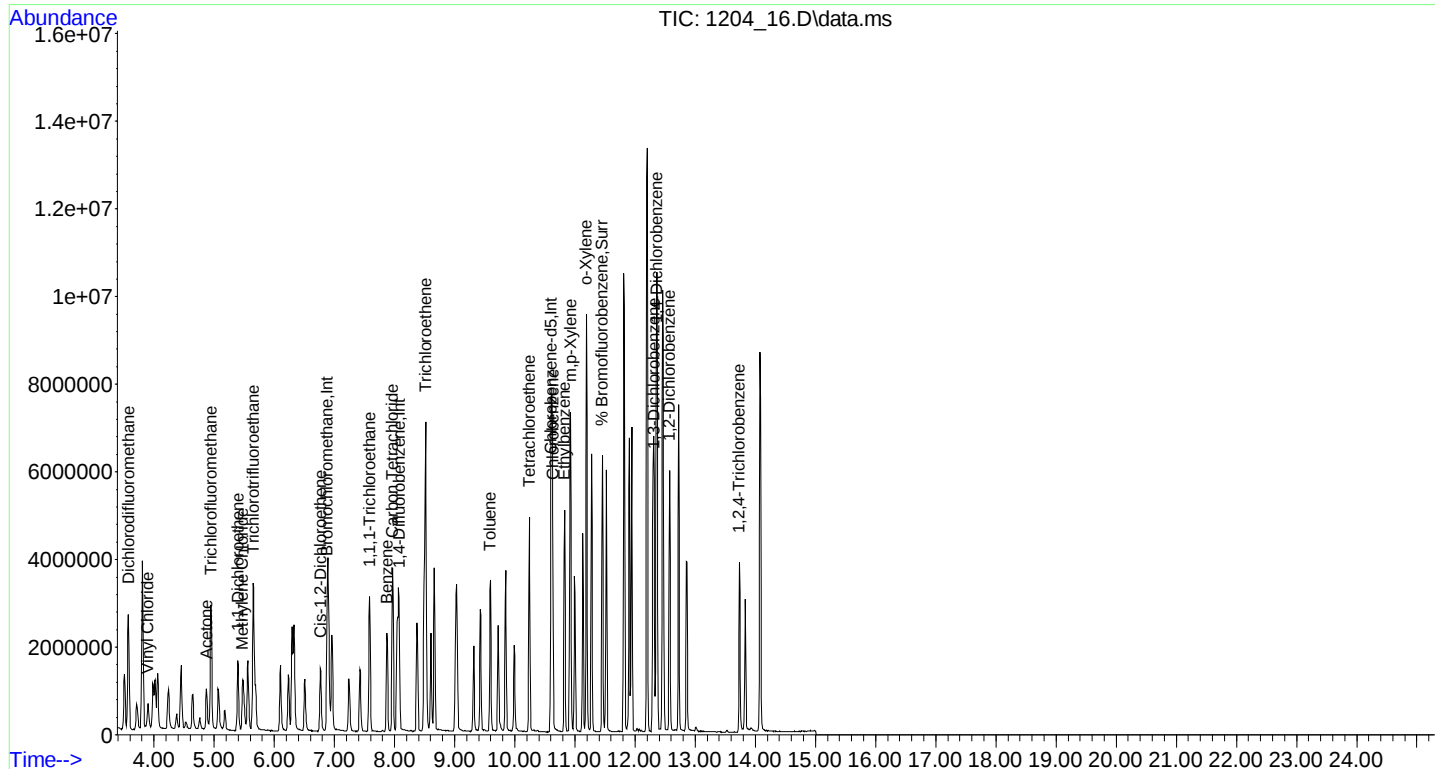
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	486553	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	1926552	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1120631	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	651376	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2255489	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1175393	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1618267	10.538	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.40%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.574	85	2637417	10.151	ppbv	100
3) Vinyl Chloride	3.899	62	653623	10.792	ppbv	98
4) Acetone	4.872	43	1187608	11.423	ppbv	99
5) Trichlorofluoromethane	4.945	101	2437443	10.413	ppbv	98
6) 1,1-Dichloroethene	5.394	61	1140649	9.855	ppbv	100
7) Methylene Chloride	5.477	49	771192	10.245	ppbv	100
8) Trichlorotrifluoroethane	5.650	101	1279424	9.842	ppbv	99
10) Cis-1,2-Dichloroethene	6.769	61	1050744	10.623	ppbv	97
12) 1,1,1-Trichloroethane	7.585	97	1743030	10.137	ppbv	100
13) Benzene	7.873	78	1292609	9.005	ppbv	99
14) Carbon Tetrachloride	7.966	117	1996195	10.289	ppbv	99
17) Trichloroethene	8.516	130	704456	9.723	ppbv	98
18) Toluene	9.594	91	1844958	10.145	ppbv	99
19) Tetrachloroethene	10.242	166	906577	9.706	ppbv	99
21) Chlorobenzene	10.631	112	1514222	9.874	ppbv	99
22) Ethylbenzene	10.828	91	2682936	10.414	ppbv	100
23) m,p-Xylene	10.926	91	4321668	21.946	ppbv	98
24) o-Xylene	11.192	91	2312112	10.599	ppbv	99
26) 1,3-Dichlorobenzene	12.315	146	1615365	10.654	ppbv	99
27) 1,4-Dichlorobenzene	12.353	146	1589918	10.763	ppbv	99
28) 1,2-Dichlorobenzene	12.573	146	1653239	10.984	ppbv	99
29) 1,2,4-Trichlorobenzene	13.735	180	912663	8.883	ppbv	100
31) Vinyl Chloride(sim)	3.899	62	653623	10.055	ppbv	98
35) Benzene(sim)	7.873	78	1292609	8.636	ug/l	99
36) Carbon Tetrachloride(sim)	7.969	117	2470715	9.916	ppbv	100
45) Trichloroethene(sim)	8.516	130	704625	8.446	ppbv	98
47) Tetrachloroethene(sim)	10.242	166	906673	9.537	ppbv	98
49) m,p-Xylene(sim)	10.926	91	4356272	19.139	ppbv	98
51) 1,4-Dichlorobenzene(sim)	12.353	146	1589918	10.797	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_16.D
 Acq On : 04 Dec 2019 04:29 am
 Operator : CORTEX\ms
 Client ID : CE70607 LCS
 Lab ID : CE70607 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:30:45 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_22.D
 Acq On : 04 Dec 2019 11:38 am
 Operator : CORTEX\ms
 Client ID : CE70607 LCSD
 Lab ID : CE70607 LCSD
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 13:38:05 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration

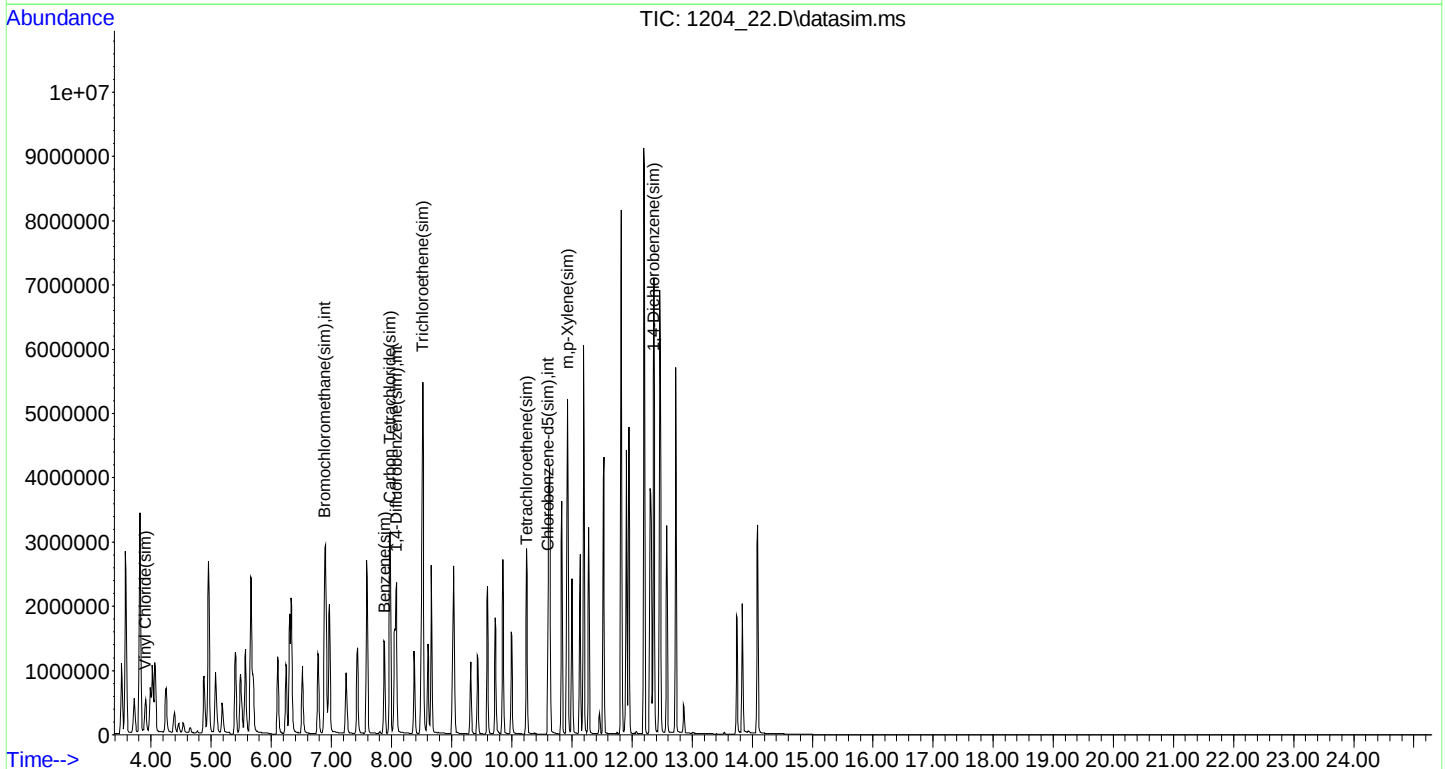
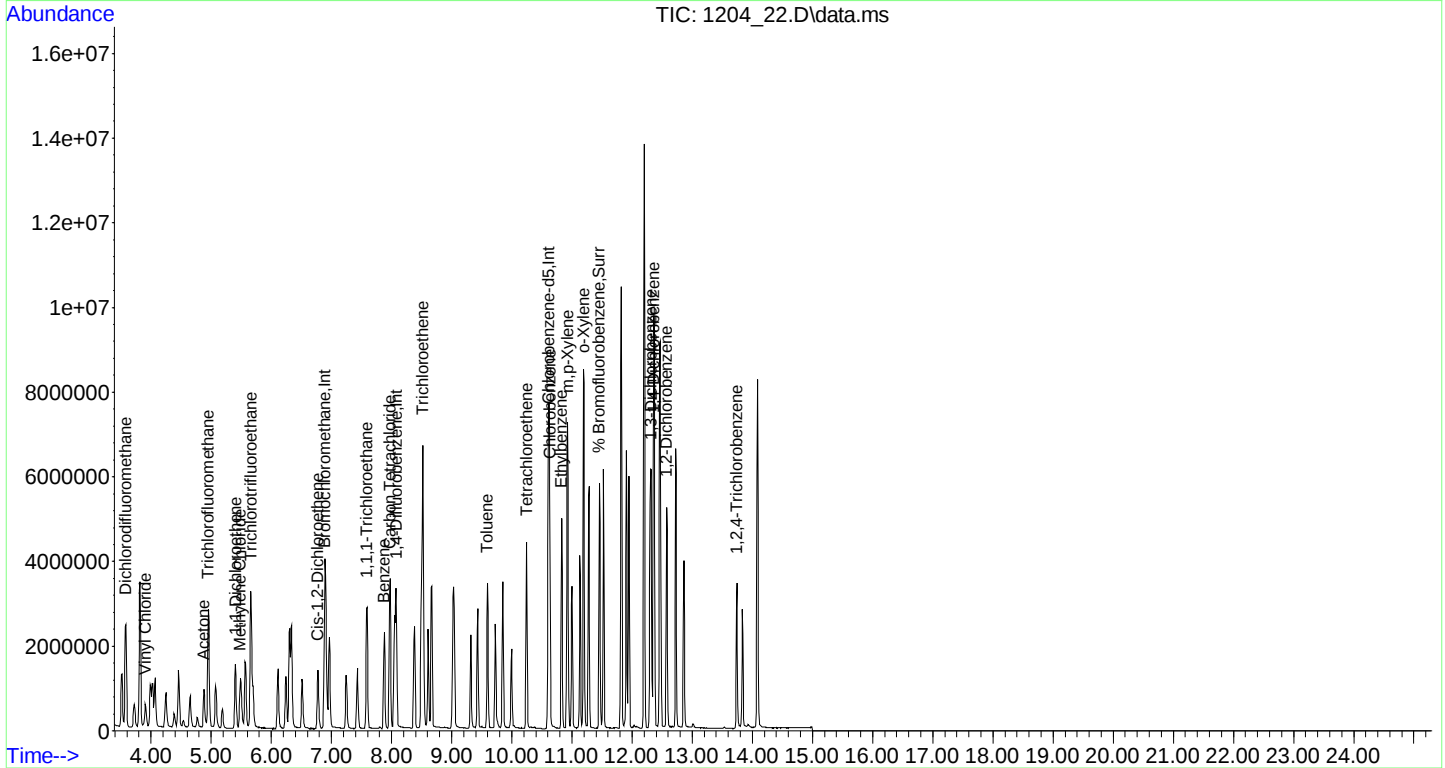
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.888	130	469170	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	1800785	10.000	ng	0.00
20) Chlorobenzene-d5	10.608	82	1091845	10.000	ng	0.00
30) Bromochloromethane(sim)	6.891	130	617653	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.079	114	2130505	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1148847	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1529799	10.225	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.20%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.583	85	2523093	10.071	ppbv	99
3) Vinyl Chloride	3.907	62	608243	10.415	ppbv	99
4) Acetone	4.881	43	1164423	11.615	ppbv	99
5) Trichlorofluoromethane	4.954	101	2401090	10.638	ppbv	99
6) 1,1-Dichloroethene	5.406	61	1126136	10.090	ppbv	98
7) Methylene Chloride	5.483	49	776518	10.698	ppbv	98
8) Trichlorotrifluoroethane	5.662	101	1234440	9.848	ppbv	99
10) Cis-1,2-Dichloroethene	6.774	61	1018476	10.678	ppbv	99
12) 1,1,1-Trichloroethane	7.593	97	1687182	10.176	ppbv	99
13) Benzene	7.881	78	1426461	10.306	ppbv	99
14) Carbon Tetrachloride	7.974	117	1912943	10.226	ppbv	100
17) Trichloroethene	8.517	130	668341	9.869	ppbv	97
18) Toluene	9.594	91	1768228	10.402	ppbv	100
19) Tetrachloroethene	10.249	166	849308	9.728	ppbv	99
21) Chlorobenzene	10.631	112	1432323	9.587	ppbv	100
22) Ethylbenzene	10.828	91	2532772	10.091	ppbv	100
23) m,p-Xylene	10.926	91	4074136	21.234	ppbv	99
24) o-Xylene	11.199	91	2206222	10.380	ppbv	98
26) 1,3-Dichlorobenzene	12.315	146	1508234	10.209	ppbv	99
27) 1,4-Dichlorobenzene	12.353	146	1372263	9.534	ppbv	99
28) 1,2-Dichlorobenzene	12.573	146	1462291	9.971	ppbv	98
29) 1,2,4-Trichlorobenzene	13.743	180	761406	7.606	ppbv	99
31) Vinyl Chloride(sim)	3.907	62	608243	9.868	ppbv	99
35) Benzene(sim)	7.881	78	1418675	9.996	ug/l	99
36) Carbon Tetrachloride(sim)	7.977	117	2374003	10.048	ppbv	100
45) Trichloroethene(sim)	8.517	130	669085	8.490	ppbv	98
47) Tetrachloroethene(sim)	10.249	166	849308	9.458	ppbv	99
49) m,p-Xylene(sim)	10.926	91	4118335	18.512	ppbv	99
51) 1,4-Dichlorobenzene(sim)	12.353	146	1372263	9.534	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_22.D
 Acq On : 04 Dec 2019 11:38 am
 Operator : CORTEX\ms
 Client ID : CE70607 LCSD
 Lab ID : CE70607 LCSD
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 13:38:05 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Dec 04 10:30:23 2019
 Response via : Initial Calibration



Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_18.D
 Acq On : 04 Dec 2019 05:38 am
 Operator : CORTEX\ms
 Client ID : CE70607 BLANK
 Lab ID : CE70607 BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:25:52 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Dec 04 10:20:50 2019
 Response via : Initial Calibration

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

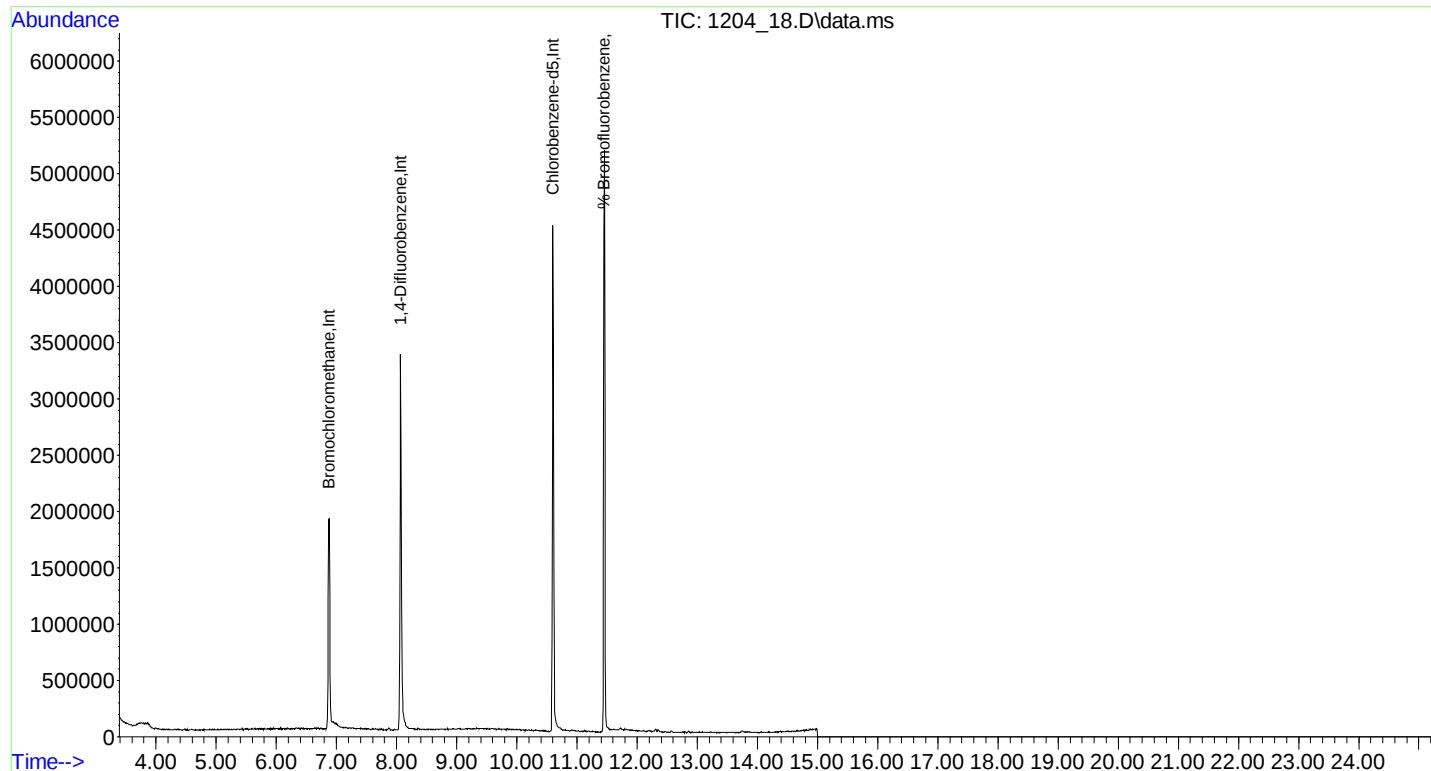
Internal Standards						
1) Bromochloromethane	6.880	130	573595	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.068	114	2223890	10.000	ng	0.00
20) Chlorobenzene-d5	10.600	82	1143982	10.000	ng	0.00
30) Bromochloromethane(sim)	6.875	130	742297	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.071	114	2609833	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1162483	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1423363	9.080	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.80%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_18.D
Acq On : 04 Dec 2019 05:38 am
Operator : CORTEX\ms
Client ID : CE70607 BLANK
Lab ID : CE70607 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 04 11:25:52 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:20:50 2019
Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Lab Sample ID: CE70607 DUP

Lab File ID: 1204_20.D

Date Received: 12/03/19

Date Analyzed: 12/04/19

Dilution Factor: 1

ppbv

FORM I AIR

Page 216 of 290

Data Path : H:\AIR2019\CHEM20\12DEC\04\
 Data File : 1204_19.D
 Acq On : 04 Dec 2019 08:58 am
 Operator : CORTEX\ms
 Sample : 70607 304cc
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

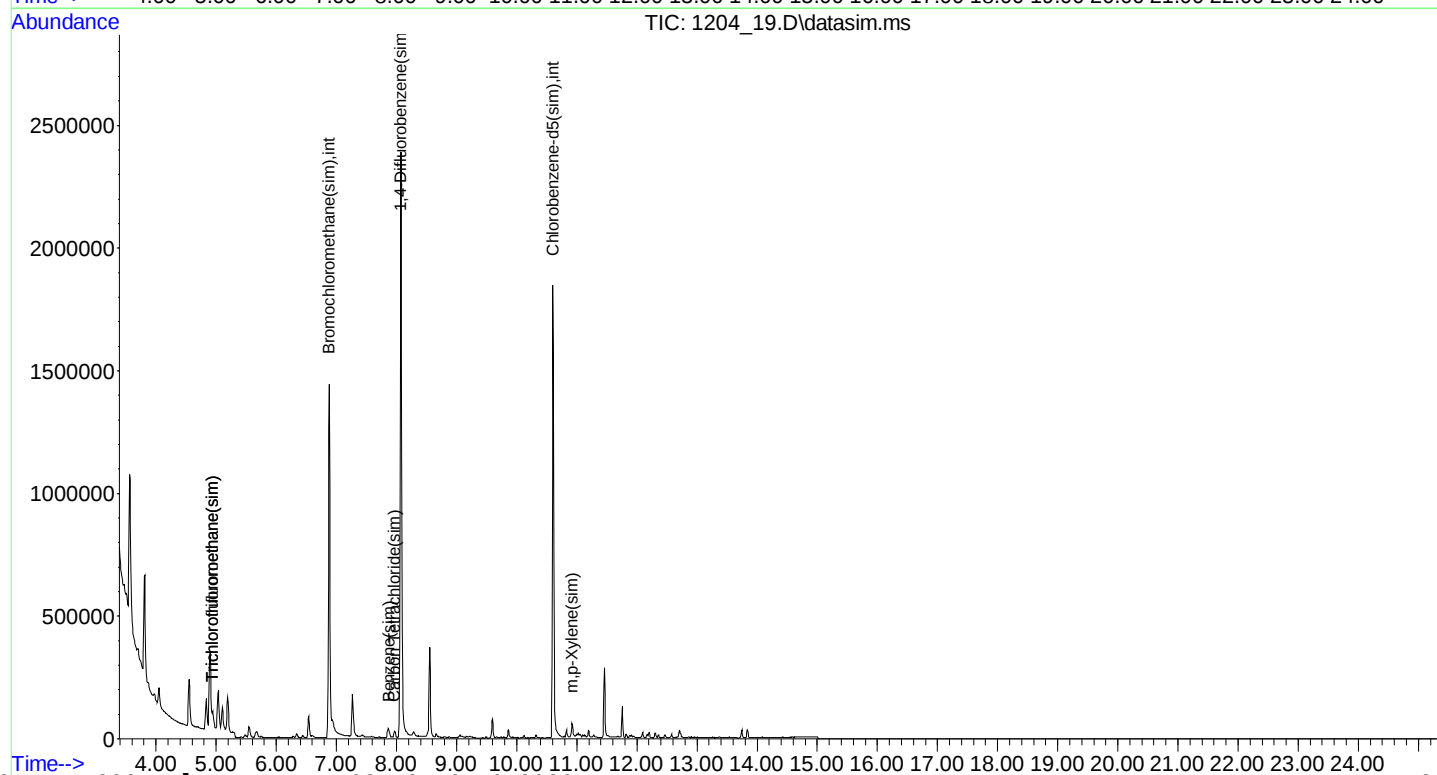
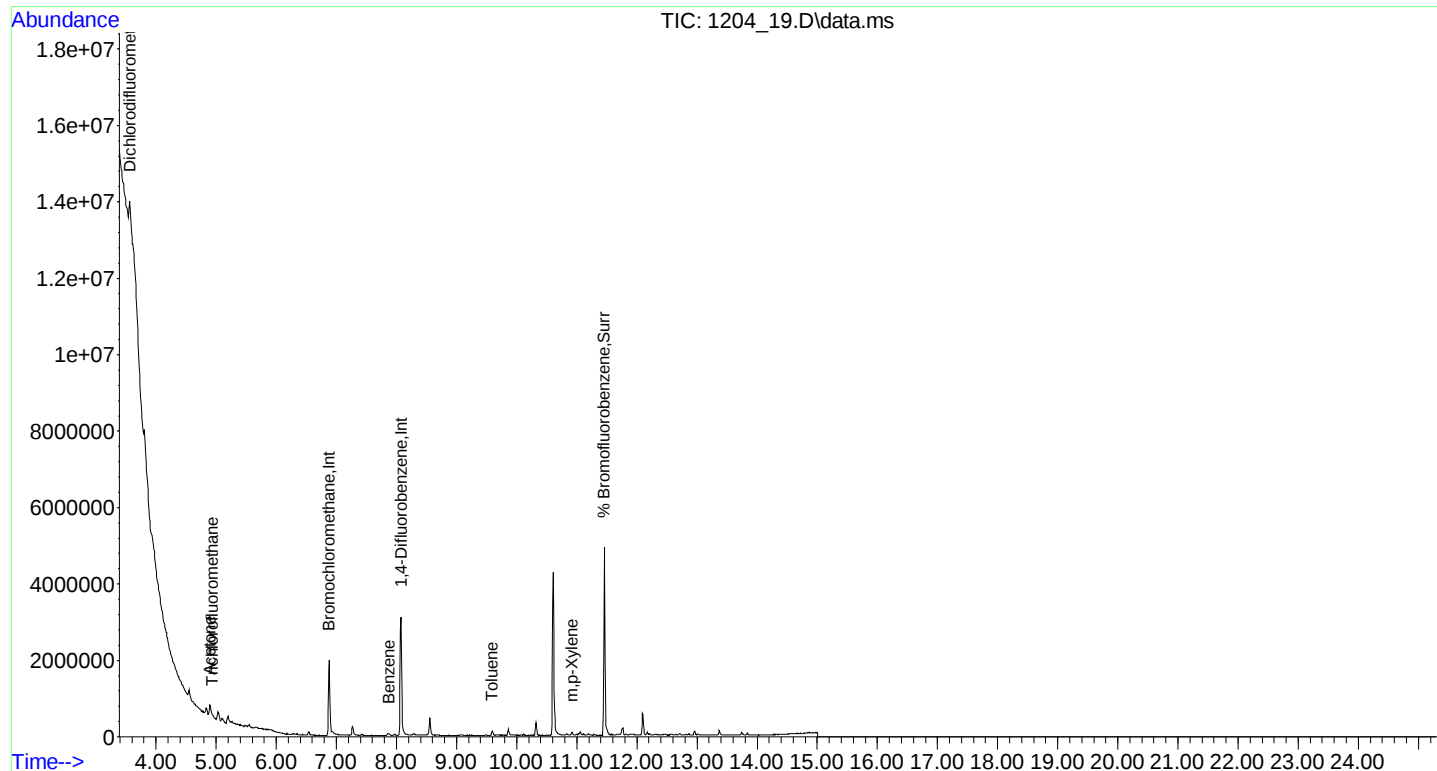
Quant Time: Dec 04 11:26:30 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Dec 04 10:20:50 2019
 Response via : Initial Calibration

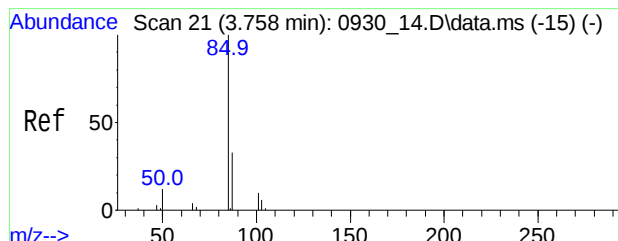
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.880	130	543820	10.000	ng	0.00
15) 1,4-Difluorobenzene	8.076	114	2090660	10.000	ng	0.00
20) Chlorobenzene-d5	10.608	82	1093959	10.000	ng	0.00
30) Bromochloromethane(sim)	6.883	130	712155	10.000	ng	# 0.00
42) 1,4-Difluorobenzene(sim)	8.070	114	2488422	10.000	ng	0.00
48) Chlorobenzene-d5(sim)	10.603	82	1149403	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	11.457	95	1415839	9.445	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.40%
Target Compounds						
2) Dichlorodifluoromethane	3.566	85	126038	0.434	ppbv	Qvalue 95
4) Acetone	4.897	43	456259	3.926	ppbv#	87
5) Trichlorofluoromethane	4.945	101	53733	0.205	ppbv	98
13) Benzene	7.881	78	21915	0.137	ppbv#	92
18) Toluene	9.594	91	64735	0.328	ppbv	97
23) m,p-Xylene	10.919	91	41931	0.218	ppbv	97
32) Trichlorofluoromethane...	4.940	101	62510	0.199	ppbv	97
35) Benzene(sim)	7.881	78	21915	0.134	ug/l#	92
36) Carbon Tetrachloride(sim)	7.969	117	18527	0.068	ppbv	96
38) Trichlorotrifluoroetha...	4.940	101	62510	0.199	ppbv	97
49) m,p-Xylene(sim)	10.919	91	43661	0.196	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\12DEC\04\
Data File : 1204_19.D
Acq On : 04 Dec 2019 08:58 am
Operator : CORTEX\ms
Sample : 70607 304cc
Misc :
ALS Vial : 1 Sample Multiplier: 1

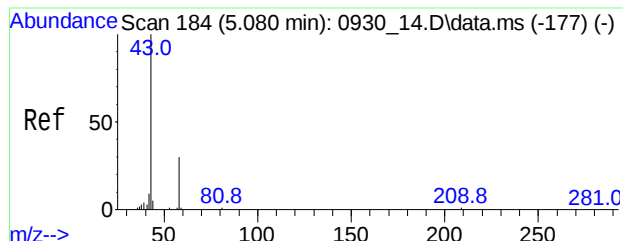
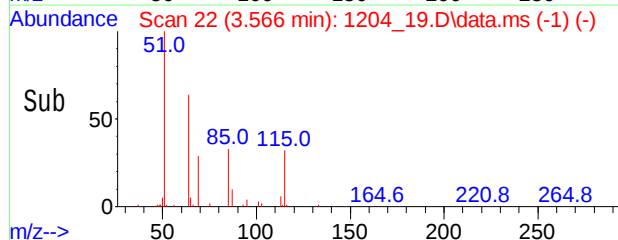
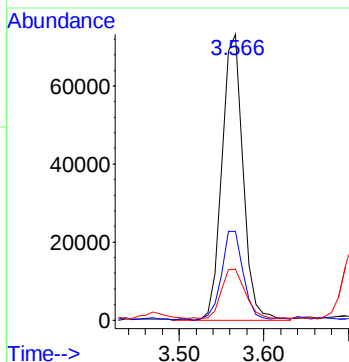
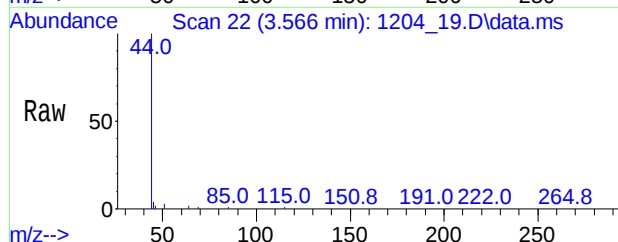
Quant Time: Dec 04 11:26:30 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_1203_wal.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Dec 04 10:20:50 2019
Response via : Initial Calibration





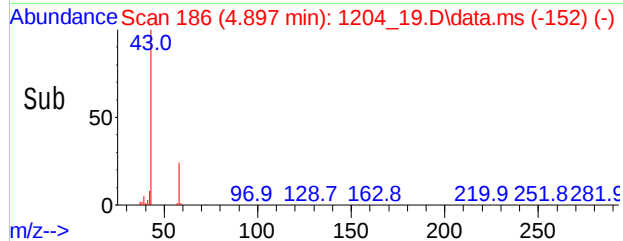
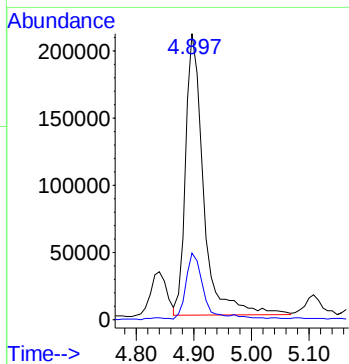
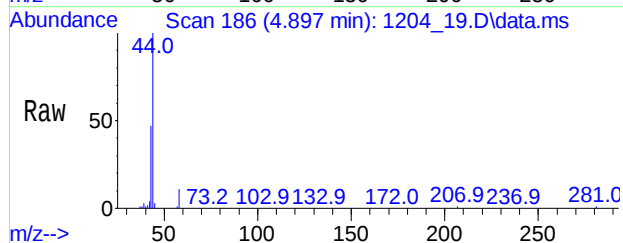
#2
Dichlorodifluoromethane
Conc: 8\$ 0.434 ppbv
RT: 3.566 min Scan# 22
Delta R.T. -0.008 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

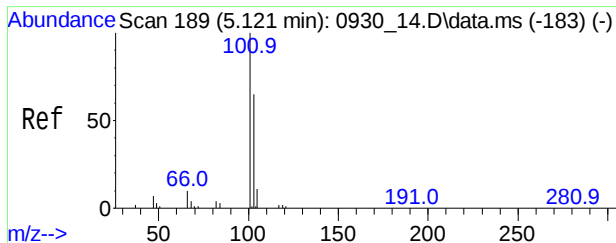
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	126038		
87	32.3	28.4	42.6	
50	19.5	14.7	22.1	



#4
Acetone
Conc: 8\$ 3.926 ppbv
RT: 4.897 min Scan# 186
Delta R.T. -0.024 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

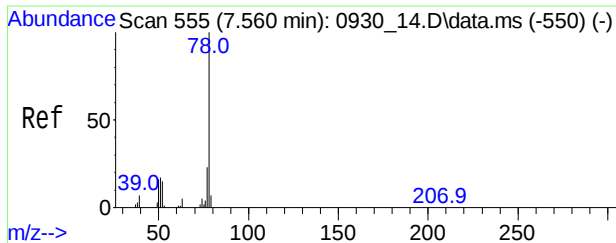
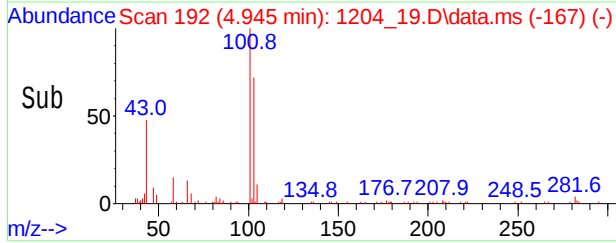
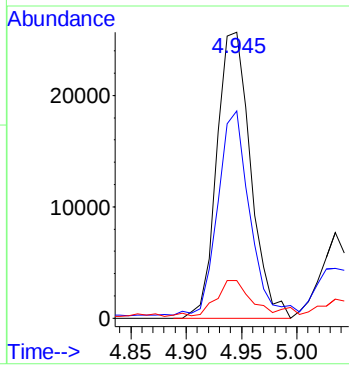
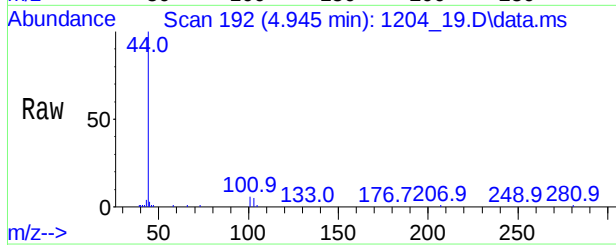
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	456259		
58	22.7	23.5	35.3#	





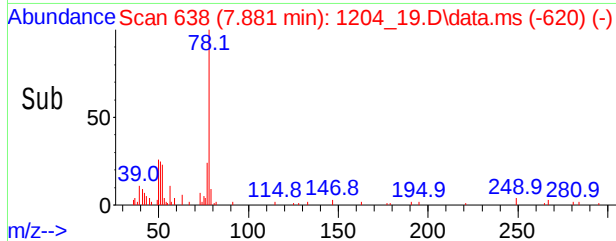
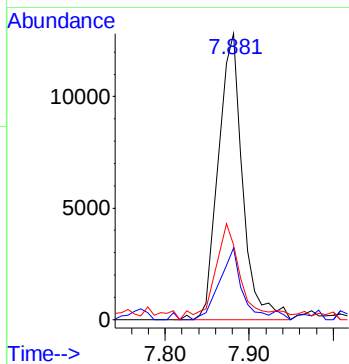
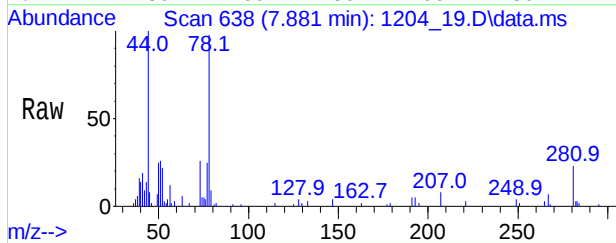
#5
Trichlorofluoromethane
Conc: 8\$ 0.205 ppbv
RT: 4.945 min Scan# 192
Delta R.T. 0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

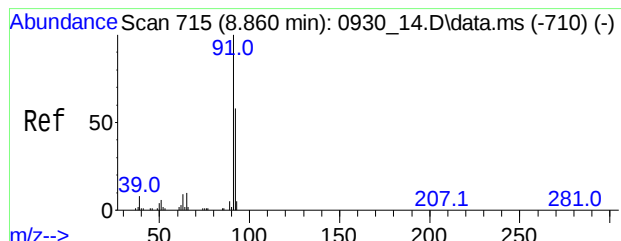
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	53733		
103	68.2	54.0	81.0	
66	14.7	14.1	21.1	



#13
Benzene
Conc: 8\$ 0.137 ppbv
RT: 7.881 min Scan# 638
Delta R.T. 0.009 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

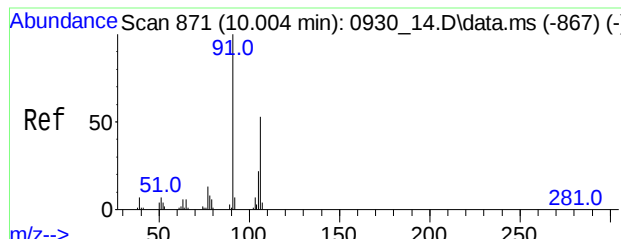
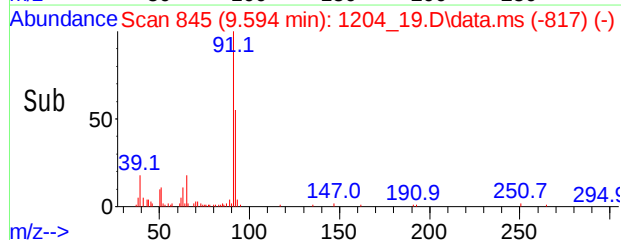
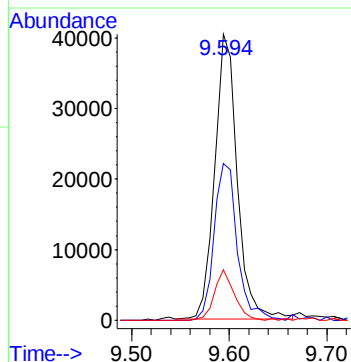
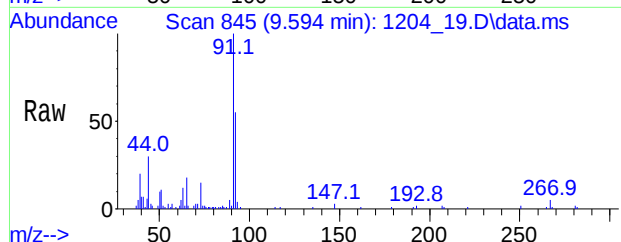
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	21915		
77	25.6	22.3	33.5	
51	36.3	24.0	36.0	





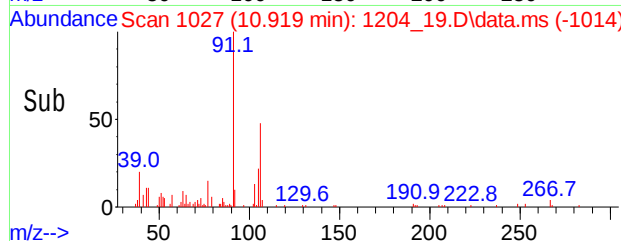
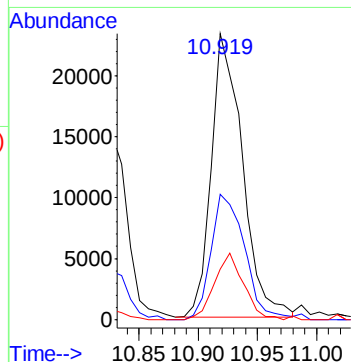
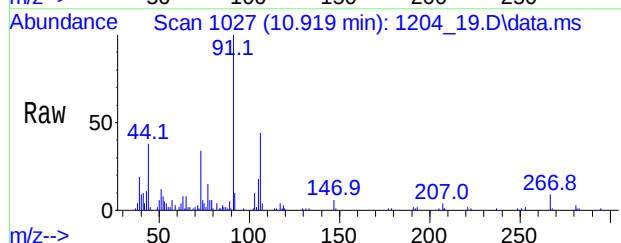
#18
Toluene
Conc: 8\$ 0.328 ppbv
RT: 9.594 min Scan# 845
Delta R.T. 0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

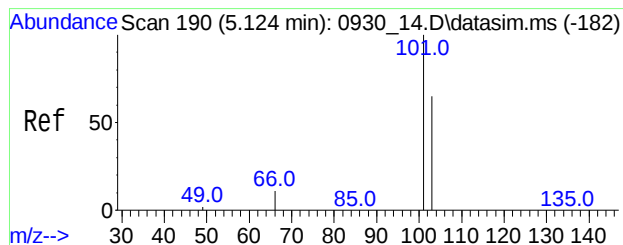
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	64735		
92	56.3	46.6	69.8	
65	15.6	10.6	16.0	



#23
m,p-Xylene
Conc: 8\$ 0.218 ppbv
RT: 10.919 min Scan# 1027
Delta R.T. 0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

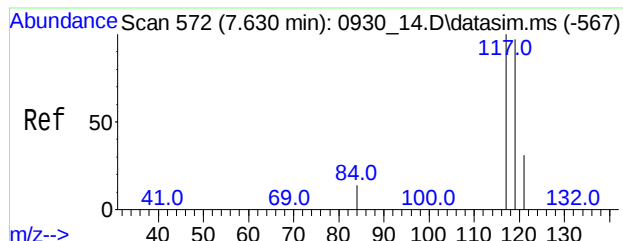
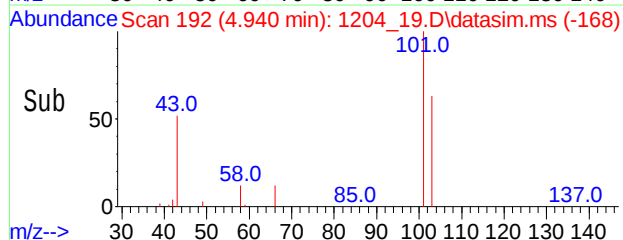
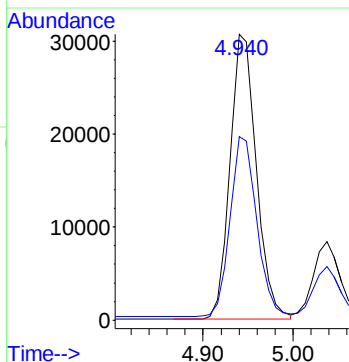
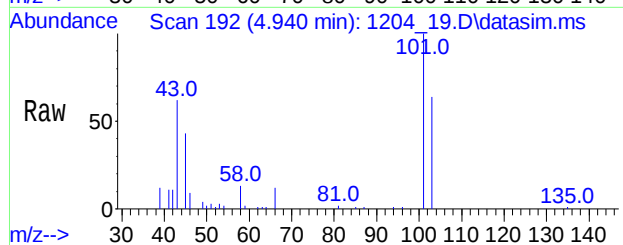
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	41931		
106	47.6	39.8	59.6	
105	21.9	18.0	27.0	





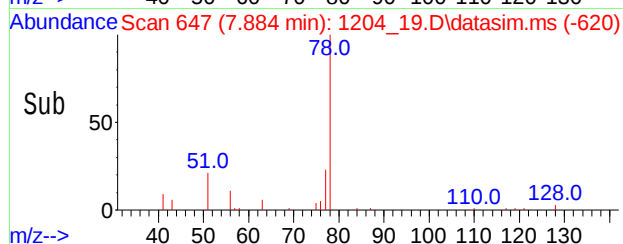
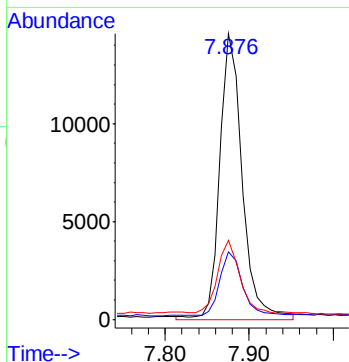
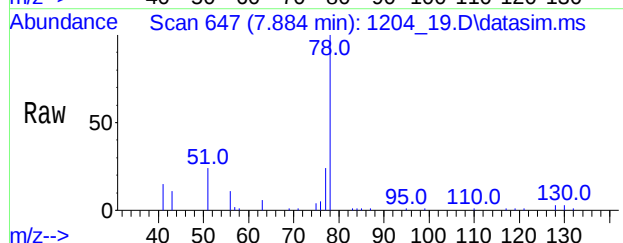
#32
Trichlorofluoromethane(sim)
Conc: 8\$ 0.199 ppbv
RT: 4.940 min Scan# 192
Delta R.T. -0.008 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

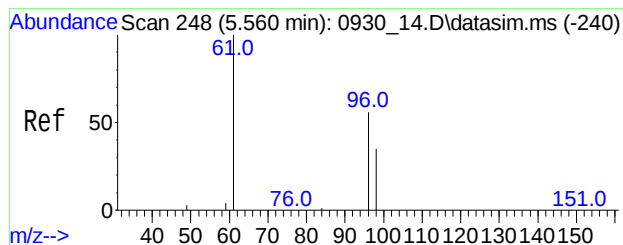
Tgt Ion: 101 Resp: 62510
Ion Ratio Lower Upper
101 100
103 63.7 52.7 79.1



#35
Benzene(sim)
Conc: 8\$ 0.134 ug/l
RT: 7.881 min Scan# 647
Delta R.T. 0.008 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

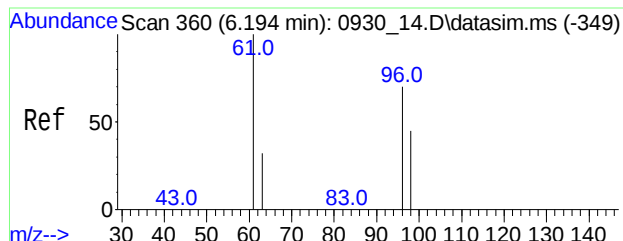
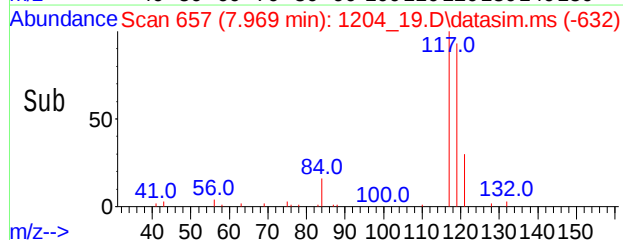
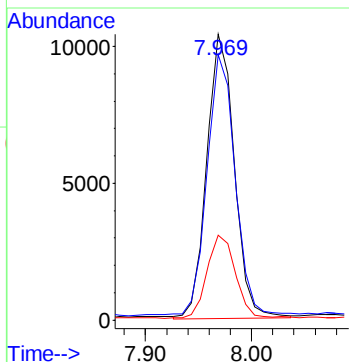
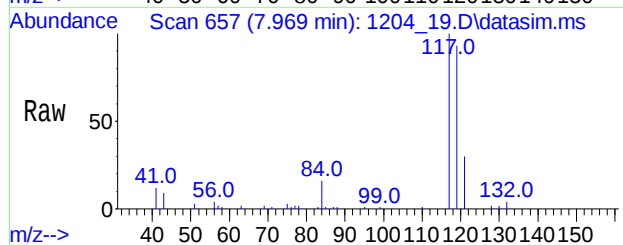
Tgt Ion: 78 Resp: 21915
Ion Ratio Lower Upper
78 100
77 25.6 22.3 33.5
51 36.3 24.0 36.0#





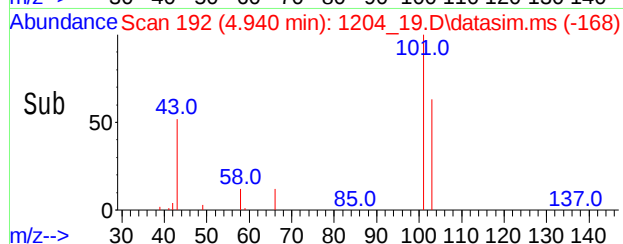
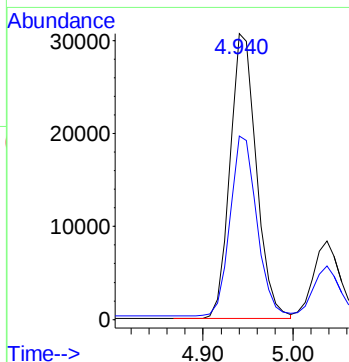
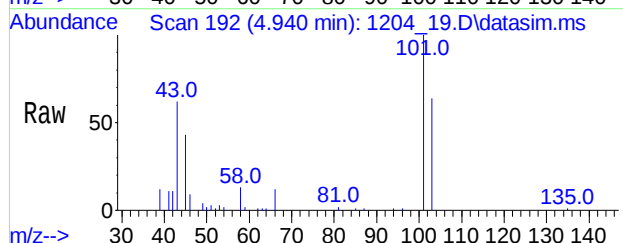
#36
Carbon Tetrachloride(sim)
Conc: 8\$ 0.068 ppbv
RT: 7.969 min Scan# 657
Delta R.T. -0.000 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

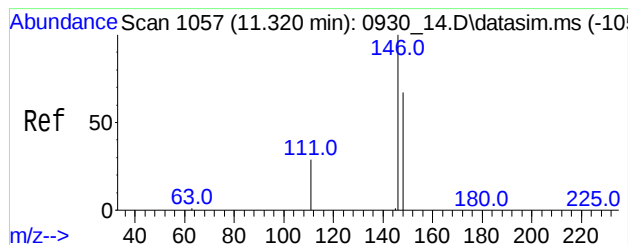
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	18527		
119	94.4	79.4	119.0	
121	31.0	25.4	38.2	



#38
Trichlorotrifluoroethane(sim)
Conc: 8\$ 0.199 ppbv
RT: 4.940 min Scan# 192
Delta R.T. -0.008 min
Lab File: 1204_19.D
Acq: 04 Dec 2019 08:58 am

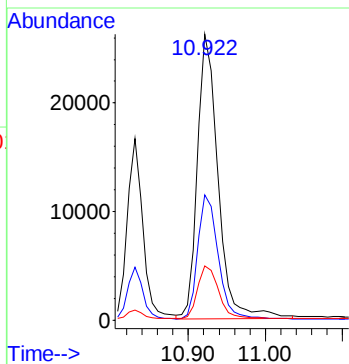
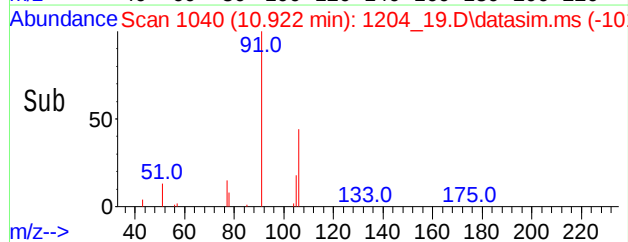
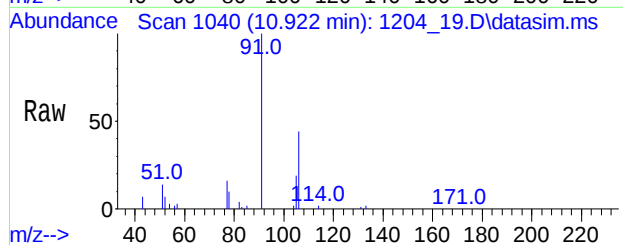
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	62510		
103	63.7	52.7	79.1	





#49
 m,p-Xylene(sim)
 Conc: 8\$ 0.196 ppbv
 RT: 10.919 min Scan# 1040
 Delta R.T. 0.000 min
 Lab File: 1204_19.D
 Acq: 04 Dec 2019 08:58 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	43661		
106	46.2	43.9	53.7	
105	21.0	17.4	26.2	



CE81151 LCS

ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	9.99		0.200	0.200	r
75-01-4	Vinyl Chloride	10.2		0.020	0.020	r
67-64-1	Acetone	10.6		1.00	1.00	r
75-69-4	Trichlorofluoromethane	8.73		0.150	0.150	r
75-35-4	1,1-Dichloroethene	9.90		0.100	0.100	r
75-09-2	Methylene Chloride	9.83		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	9.40		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	11.9		0.200	0.200	r
71-55-6	1,1,1-Trichloroethane	10.0		0.200	0.200	r
71-43-2	Benzene	11.0		0.050	0.050	r
56-23-5	Carbon Tetrachloride	10.3		0.020	0.020	r
79-01-6	Trichloroethene	11.6		0.037	0.037	r
108-88-3	Toluene	12.6		0.200	0.200	r
127-18-4	Tetrachloroethene	11.2		0.100	0.100	r
108-90-7	Chlorobenzene	11.0		0.200	0.200	r
100-41-4	Ethylbenzene	11.3		0.150	0.150	r
79601-23-1	m,p-Xylene	24.8		0.150	0.150	r
95-47-6	o-Xylene	13.1		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.5		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	11.6		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	11.2		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.51		0.250	0.250	r

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_04.D
 Acq On : 9 Dec 2019 12:55 am
 Operator : Keith
 Client ID : CE81151 LCS
 Lab ID : CE81151 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 10:48:47 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration

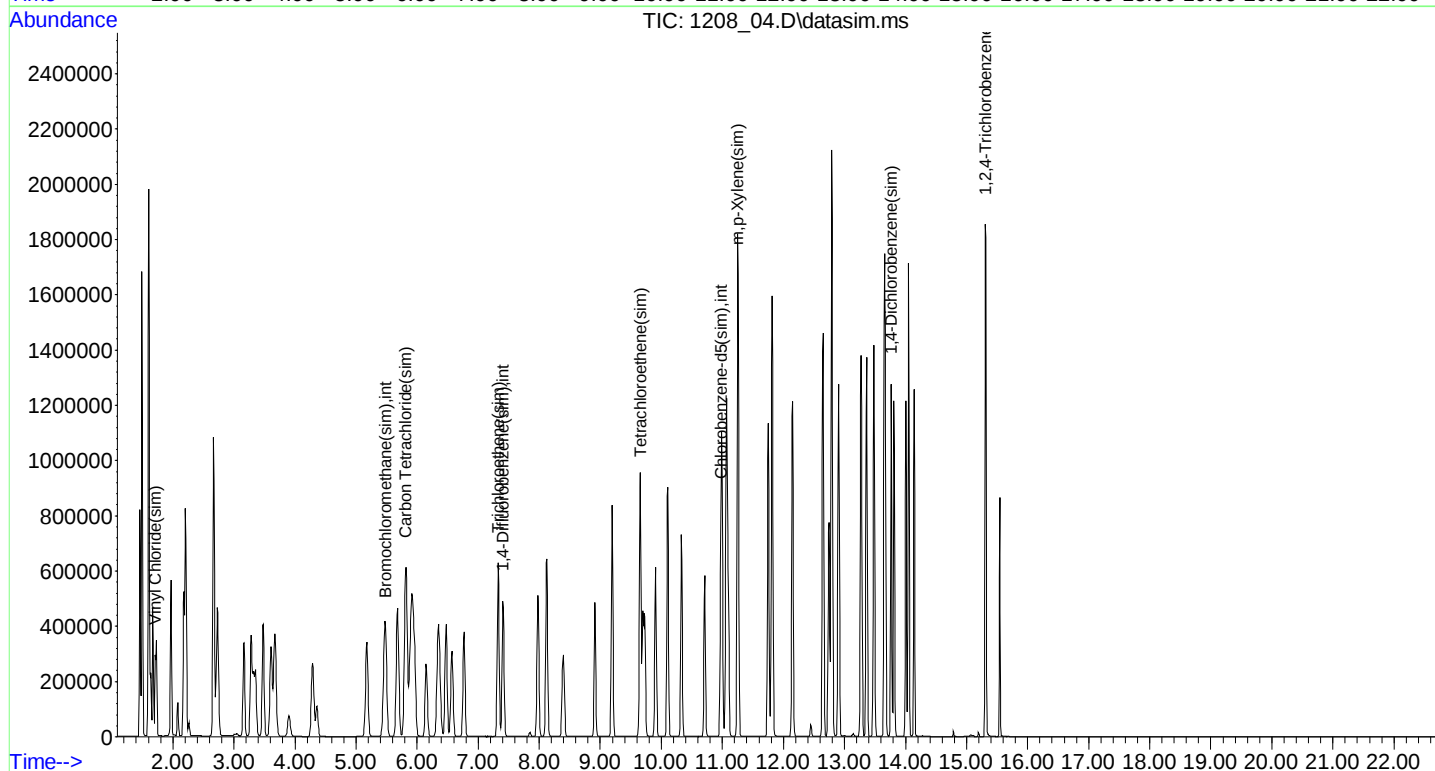
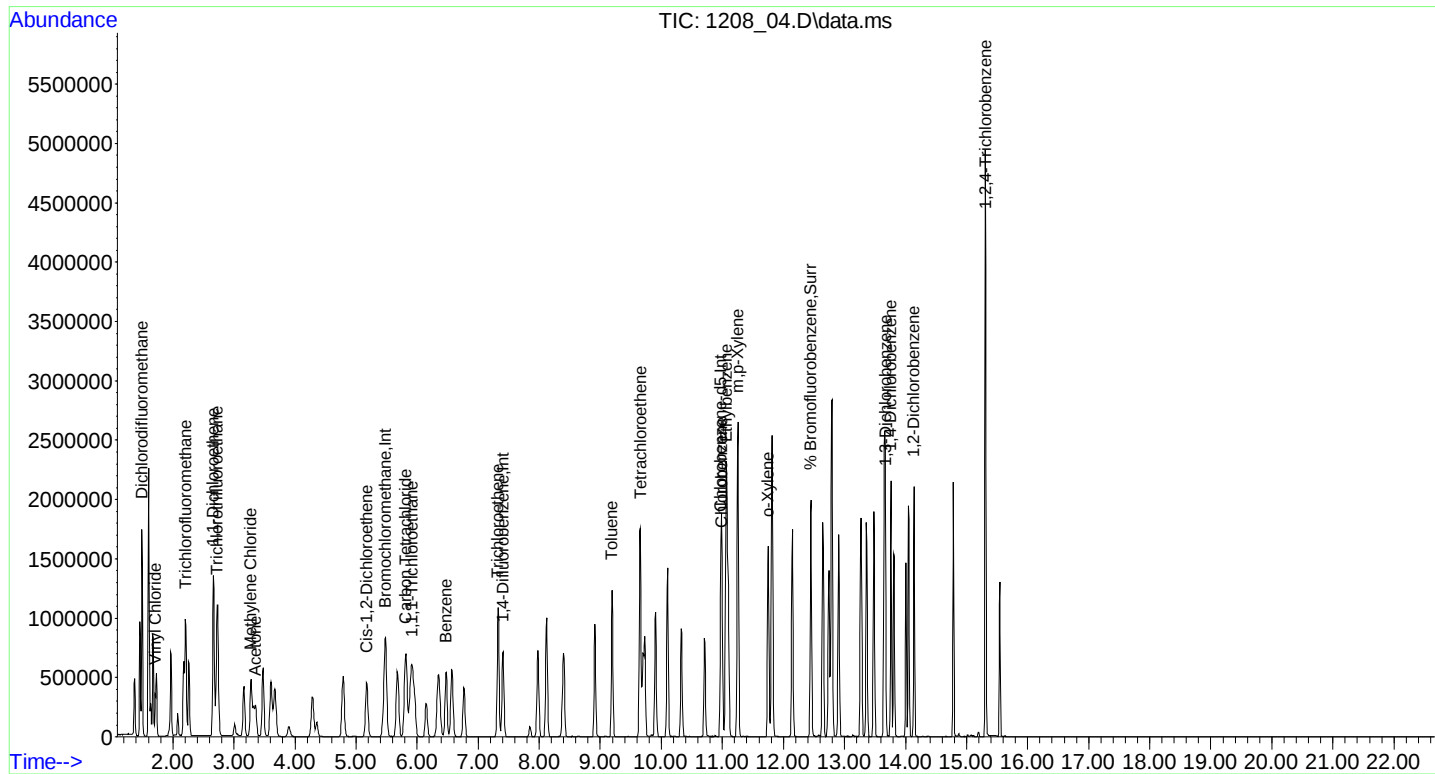
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.482	130	242609	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.409	114	667018	10.000	ng	0.00
53) Chlorobenzene-d5	10.974	82	389405	10.000	ng	0.00
80) Bromochloromethane(sim)	5.485	130	252308	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.405	114	745016	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.977	82	417900	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.451	95	613536	10.236	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.40%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.492	101	107265	9.991	ppbv#	87
6) Vinyl Chloride	1.711	62	241337	10.178	ppbv#	47
12) Acetone	3.354	43	405563	10.589	ppbv	93
13) Trichlorofluoromethane	2.204	101	790262	8.734	ppbv#	82
16) 1,1-Dichloroethene	2.663	61	435604	9.897	ppbv#	72
17) Methylene Chloride	3.279	49	271374	9.828	ppbv#	79
21) Trichlorotrifluoroethane	2.725	101	591483	9.399	ppbv	96
26) Cis-1,2-Dichloroethene	5.172	61	401019	11.923	ppbv#	71
32) 1,1,1-Trichloroethane	5.922	97	608216	10.009	ppbv#	76
33) Benzene	6.477	78	611377	10.958	ppbv#	91
34) Carbon Tetrachloride	5.814	117	727079	10.282	ppbv	99
39) Trichloroethene	7.326	130	398534	11.605	ppbv	92
48) Toluene	9.193	91	870612	12.619	ppbv	91
52) Tetrachloroethene	9.655	166	547056	11.149	ppbv	94
55) Chlorobenzene	10.995	112	689604	11.019	ppbv#	1
56) Ethylbenzene	11.070	91	1028415	11.342	ppbv	87
57) m,p-Xylene	11.255	91	1596875	24.750	ppbv#	90
61) o-Xylene	11.749	91	982411	13.132	ppbv	90
71) 1,3-Dichlorobenzene	13.671	146	687418	10.494	ppbv	97
72) 1,4-Dichlorobenzene	13.762	146	736082	11.566	ppbv#	92
75) 1,2-Dichlorobenzene	14.139	146	679110	11.168	ppbv	93
77) 1,2,4-Trichlorobenzene	15.309	180	433808	9.507	ppbv#	75
82) Vinyl Chloride(sim)	1.714	62	260662	9.945	ppbv	92
86) Carbon Tetrachloride(sim)	5.817	117	742915	10.193	ppbv	99
97) Trichloroethene(sim)	7.326	130	398534	12.333	ppbv#	83
103) Tetrachloroethene(sim)	9.655	166	547056	12.512	ppbv#	81
107) m,p-Xylene(sim)	11.255	91	1598396	18.162	ppbv#	90
113) 1,4-Dichlorobenzene(sim)	13.762	146	736524	9.361	ppbv	87
118) 1,2,4-Trichlorobenzene...	15.307	180	449197	7.613	ppbv#	86

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_04.D
 Acq On : 9 Dec 2019 12:55 am
 Operator : Keith
 Client ID : CE81151 LCS
 Lab ID : CE81151 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 10:48:47 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration



CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

FORM I AIR

Page 228 of 290

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_05.D
 Acq On : 9 Dec 2019 1:31 am
 Operator : Keith
 Client ID : CE81151 LCSD
 Lab ID : CE81151 LCSD
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 10:48:50 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration

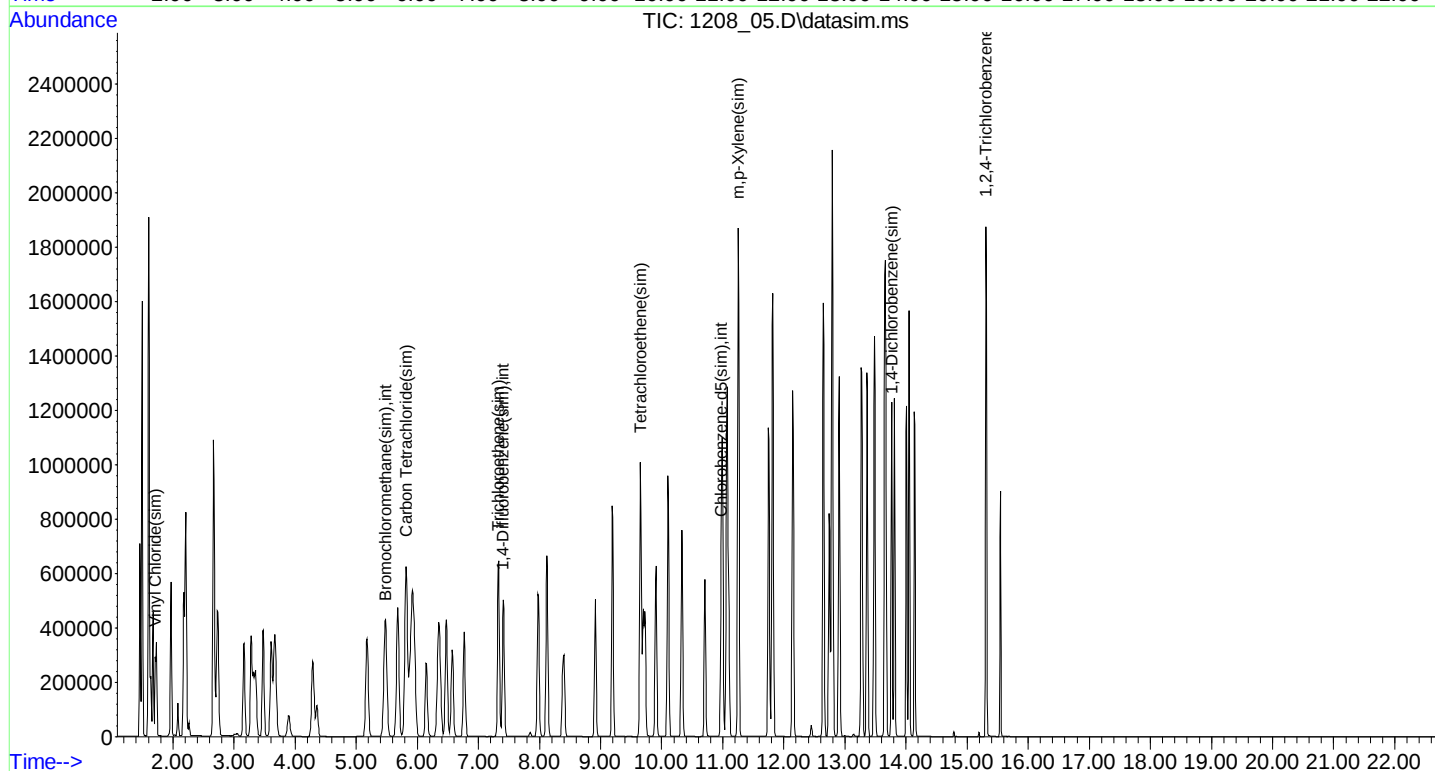
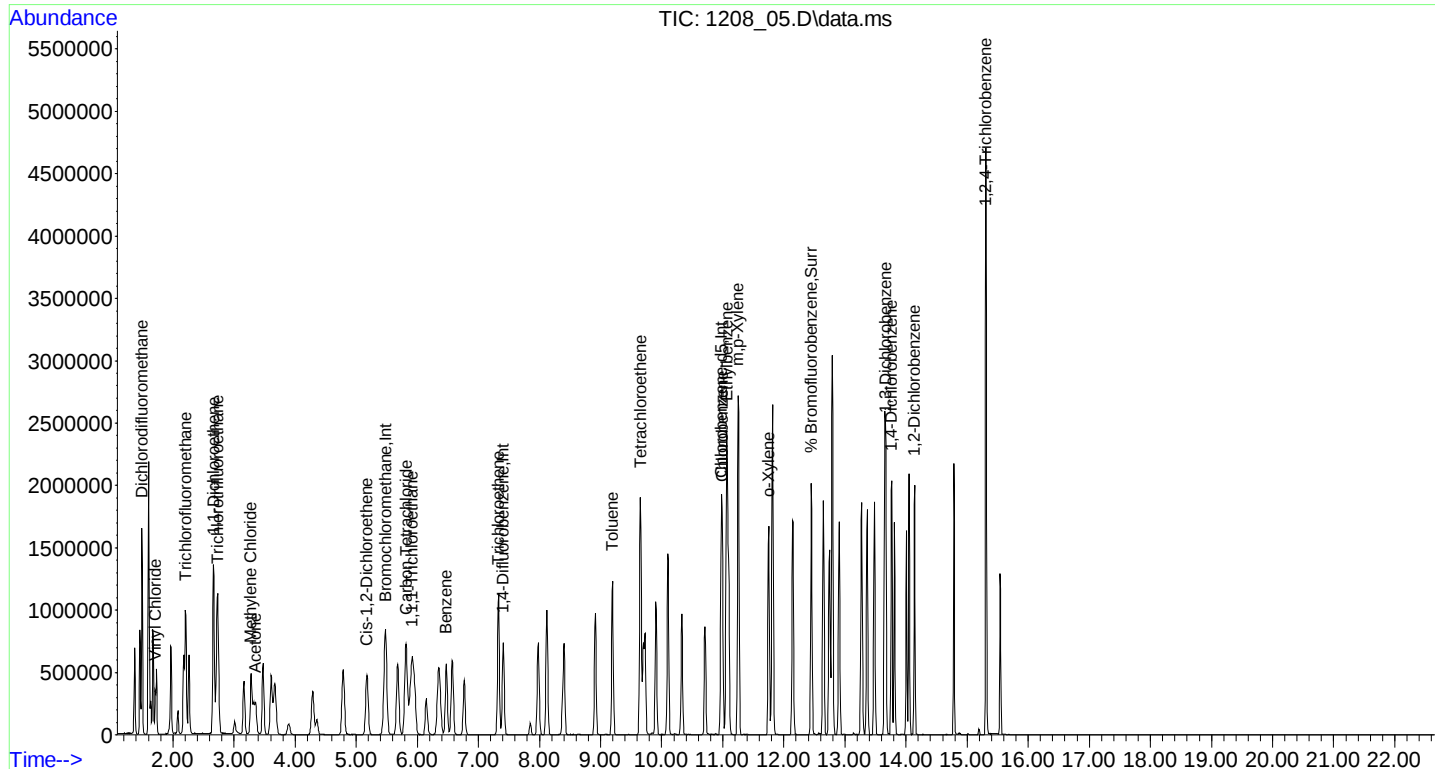
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.485	130	245898	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.405	114	688330	10.000	ng	0.00
53) Chlorobenzene-d5	10.977	82	397603	10.000	ng	0.00
80) Bromochloromethane(sim)	5.488	130	256057	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.407	114	761743	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.973	82	425199	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.448	95	603332	9.859	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.60%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.492	101	101300	9.309	ppbv#	87
6) Vinyl Chloride	1.711	62	240258	9.997	ppbv#	48
12) Acetone	3.354	43	402193	10.361	ppbv	92
13) Trichlorofluoromethane	2.204	101	795906	8.678	ppbv#	82
16) 1,1-Dichloroethene	2.663	61	443559	9.943	ppbv#	73
17) Methylene Chloride	3.279	49	276381	9.876	ppbv#	79
21) Trichlorotrifluoroethane	2.732	101	598566	9.384	ppbv	96
26) Cis-1,2-Dichloroethene	5.175	61	415859	12.199	ppbv#	70
32) 1,1,1-Trichloroethane	5.917	97	627051	10.181	ppbv#	77
33) Benzene	6.473	78	640728	11.330	ppbv#	92
34) Carbon Tetrachloride	5.817	117	747687	10.432	ppbv	99
39) Trichloroethene	7.329	130	418343	11.805	ppbv	91
48) Toluene	9.196	91	914381	12.844	ppbv	91
52) Tetrachloroethene	9.651	166	575188	11.359	ppbv	94
55) Chlorobenzene	10.991	112	725046	11.346	ppbv#	1
56) Ethylbenzene	11.066	91	1058409	11.432	ppbv	87
57) m,p-Xylene	11.251	91	1669874	25.348	ppbv#	89
61) o-Xylene	11.752	91	1026926	13.444	ppbv	89
71) 1,3-Dichlorobenzene	13.668	146	709420	10.607	ppbv	96
72) 1,4-Dichlorobenzene	13.765	146	754811	11.615	ppbv#	93
75) 1,2-Dichlorobenzene	14.141	146	685598	11.042	ppbv	93
77) 1,2,4-Trichlorobenzene	15.306	180	436690	9.361	ppbv#	75
82) Vinyl Chloride(sim)	1.714	62	258551	9.720	ppbv	92
86) Carbon Tetrachloride(sim)	5.819	117	764360	10.333	ppbv	99
97) Trichloroethene(sim)	7.329	130	418343	12.661	ppbv#	83
103) Tetrachloroethene(sim)	9.651	166	575177	12.866	ppbv#	81
107) m,p-Xylene(sim)	11.251	91	1670364	18.545	ppbv#	89
113) 1,4-Dichlorobenzene(sim)	13.765	146	754811	9.416	ppbv	87
118) 1,2,4-Trichlorobenzene...	15.309	180	445035	7.463	ppbv#	86

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_05.D
 Acq On : 9 Dec 2019 1:31 am
 Operator : Keith
 Client ID : CE81151 LCSD
 Lab ID : CE81151 LCSD
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 10:48:50 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration



CE81151 QC

ppbv

R

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_12.D
 Acq On : 9 Dec 2019 11:23 am
 Operator : Keith
 Client ID : CE81151 QC
 Lab ID : CE81151 QC
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 09 13:03:16 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration

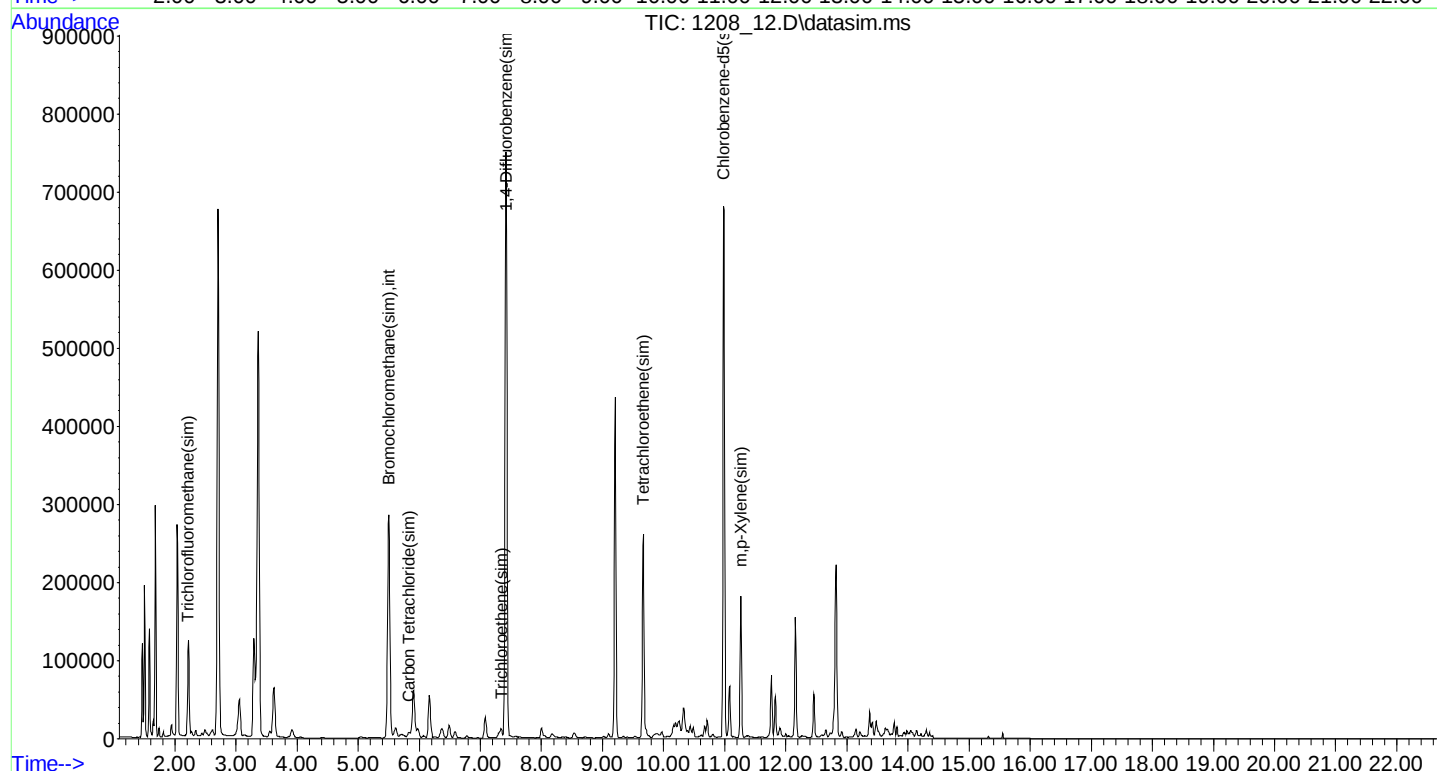
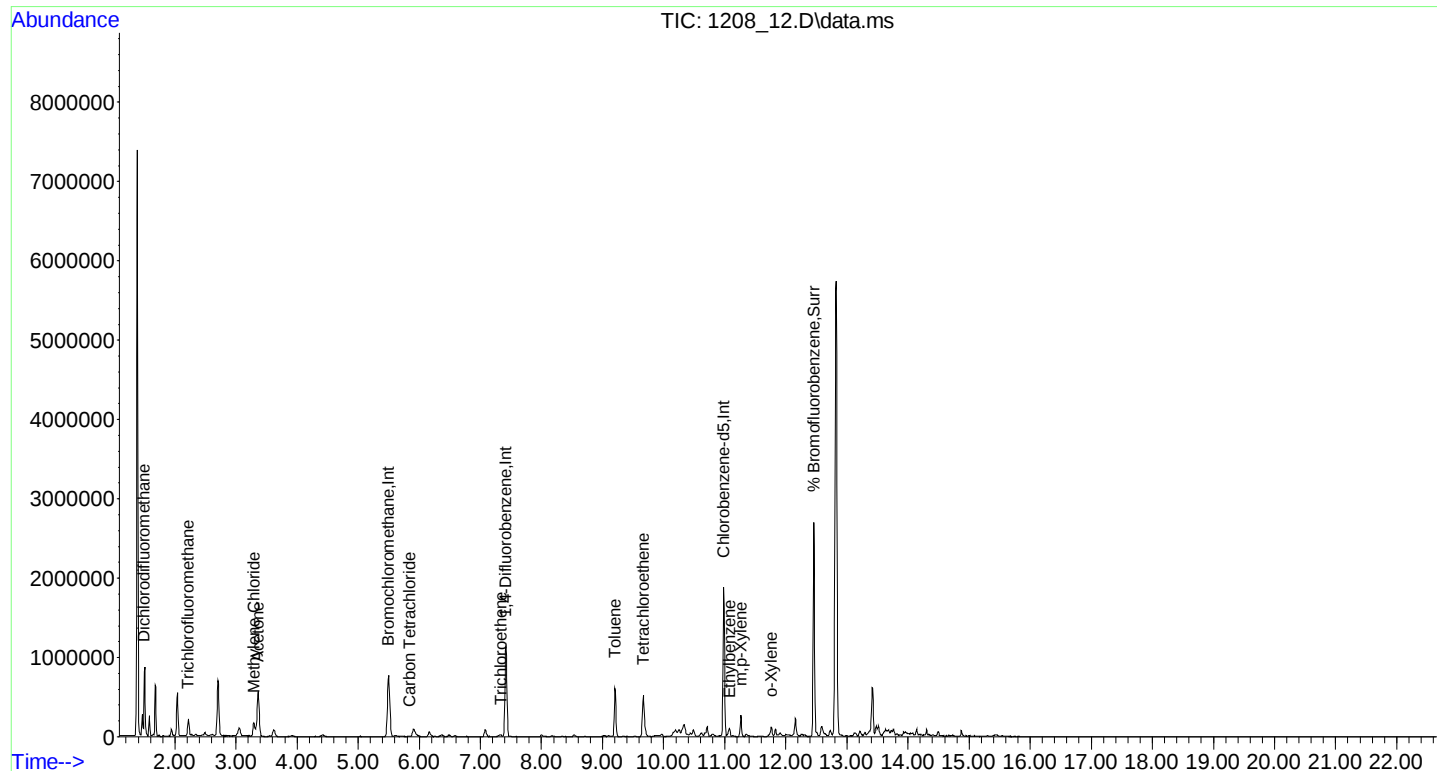
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.499	130	382562	10.000	ng	0.02
36) 1,4-Difluorobenzene	7.418	114	1060015	10.000	ng	0.02
53) Chlorobenzene-d5	10.984	82	563819	10.000	ng	0.02
80) Bromochloromethane(sim)	5.502	130	395840	10.000	ng	# 0.02
94) 1,4-Difluorobenzene(sim)	7.421	114	1167366	10.000	ng	# 0.02
104) Chlorobenzene-d5(sim)	10.987	82	615192	10.000	ng	0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	12.461	95	809304	9.326	ppbv	0.02
Spiked Amount	10.000	Range	70 - 130	Recovery	=	93.30%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.499	101	9578	0.566	ppbv#	64
12) Acetone	3.361	43	806658	13.357	ppbv#	84
13) Trichlorofluoromethane	2.218	101	38778	0.272	ppbv#	83
17) Methylene Chloride	3.292	49	88140	2.024	ppbv#	77
34) Carbon Tetrachloride	5.838	117	8358	0.075	ppbv	97
39) Trichloroethene	7.343	130	6143	0.113	ppbv	97
48) Toluene	9.204	91	448908	4.094	ppbv	91
52) Tetrachloroethene	9.666	166	144842	1.857	ppbv	95
56) Ethylbenzene	11.080	91	59436	0.453	ppbv	88
57) m,p-Xylene	11.265	91	152872	1.636	ppbv#	93
61) o-Xylene	11.766	91	64149	0.592	ppbv	89
84) Trichlorofluoromethane...	2.214	101	40238	0.232	ppbv	93
86) Carbon Tetrachloride(sim)	5.834	117	8296	0.073	ppbv	100
97) Trichloroethene(sim)	7.343	130	6143	0.121	ppbv#	73
103) Tetrachloroethene(sim)	9.666	166	144577	2.110	ppbv#	81
107) m,p-Xylene(sim)	11.265	91	152961	1.589	ppbv#	93

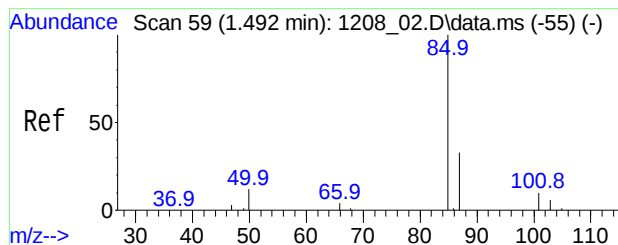
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_12.D
 Acq On : 9 Dec 2019 11:23 am
 Operator : Keith
 Client ID : CE81151 QC
 Lab ID : CE81151 QC
 ALS Vial : 13 Sample Multiplier: 1

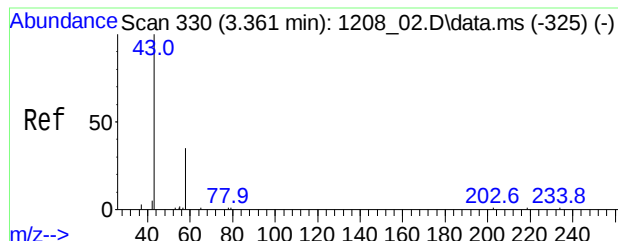
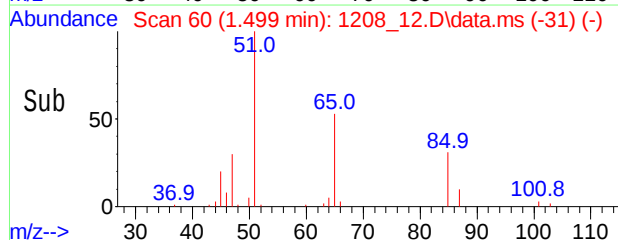
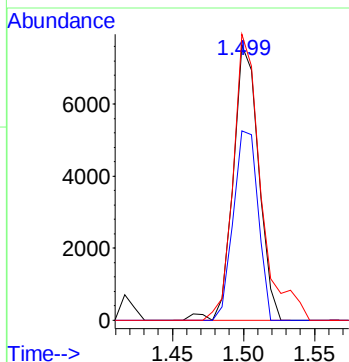
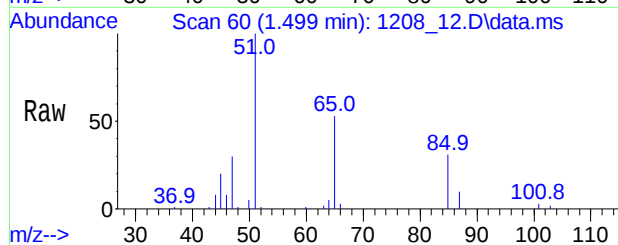
Quant Time: Dec 09 13:03:16 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 09 09:45:44 2019
 Response via : Initial Calibration





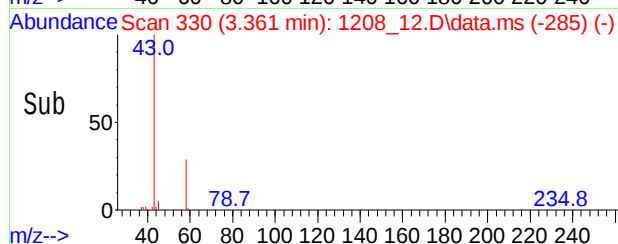
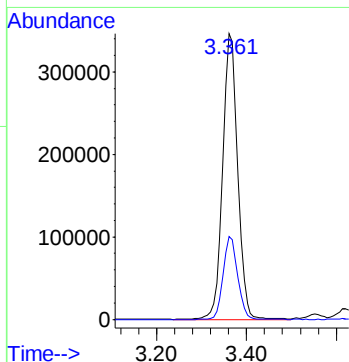
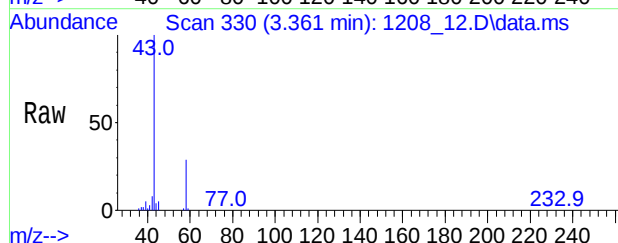
#3
Dichlorodifluoromethane
Conc: 8\$ 0.566 ppbv
RT: 1.499 min Scan# 60
Delta R.T. -0.000 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

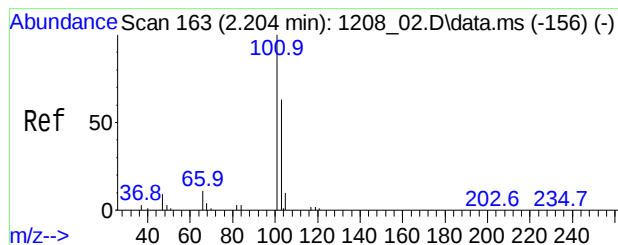
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	9578		
103	66.7	55.7	83.5	
66	111.8	45.1	67.7#	



#12
Acetone
Conc: 8\$ 13.357 ppbv
RT: 3.361 min Scan# 330
Delta R.T. 0.007 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

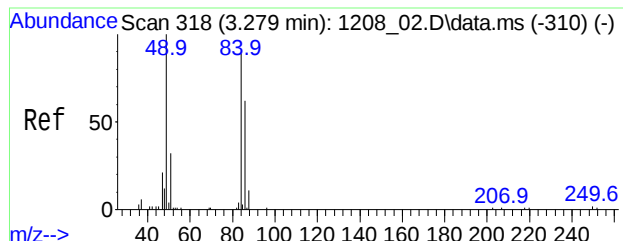
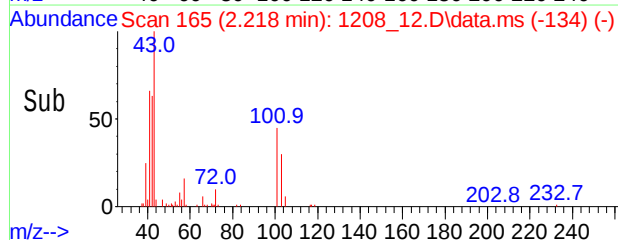
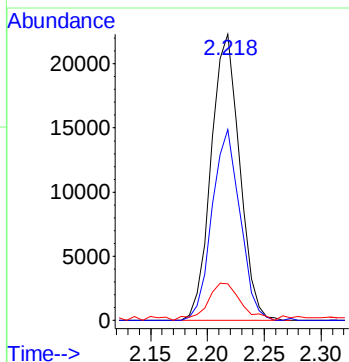
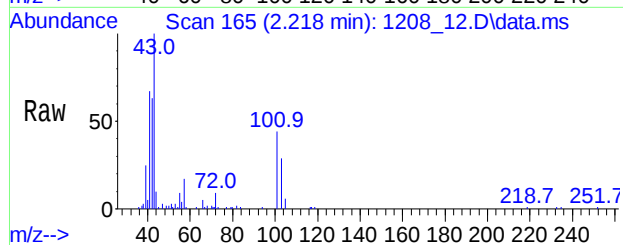
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	806658		
58	27.9	16.3	24.5#	





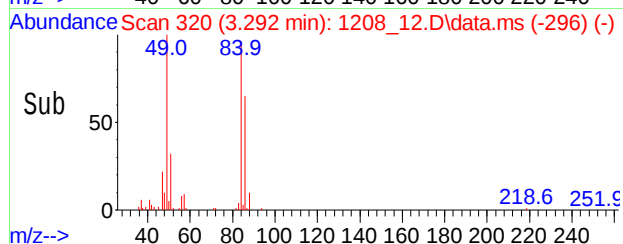
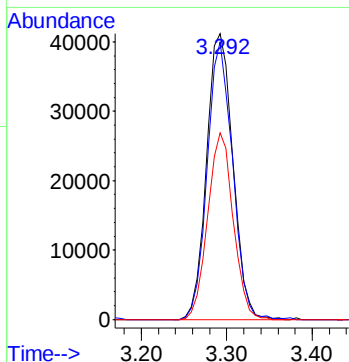
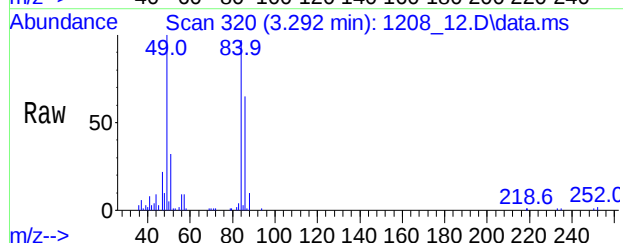
#13
Trichlorofluoromethane
Conc: 8\$ 0.272 ppbv
RT: 2.218 min Scan# 165
Delta R.T. 0.014 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

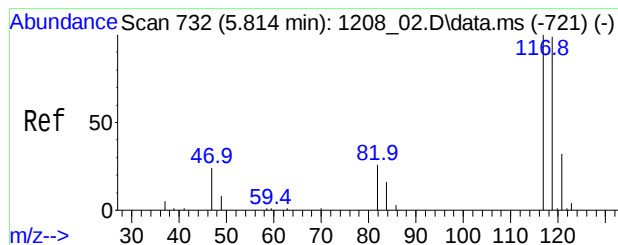
Tgt Ion: 101 Resp: 38778
Ion Ratio Lower Upper
101 100
103 65.3 60.1 90.1
66 14.8 25.4 38.0#



#17
Methylene Chloride
Conc: 8\$ 2.024 ppbv
RT: 3.292 min Scan# 320
Delta R.T. 0.013 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

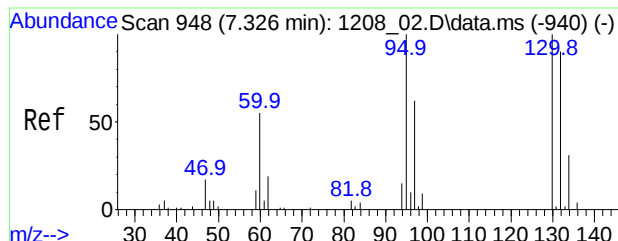
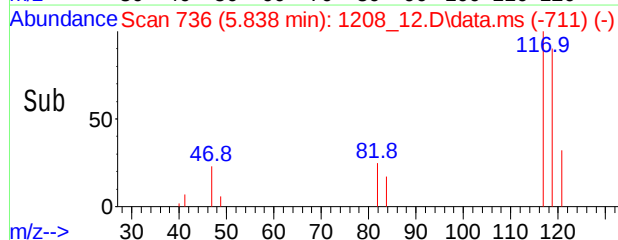
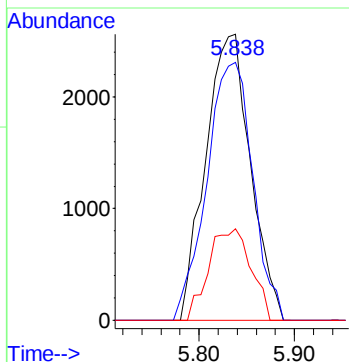
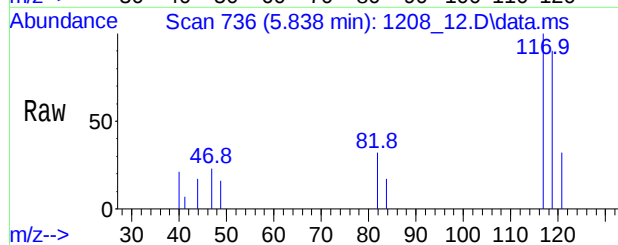
Tgt Ion: 49 Resp: 88140
Ion Ratio Lower Upper
49 100
84 93.3 60.3 90.5#
86 63.1 35.9 53.9#





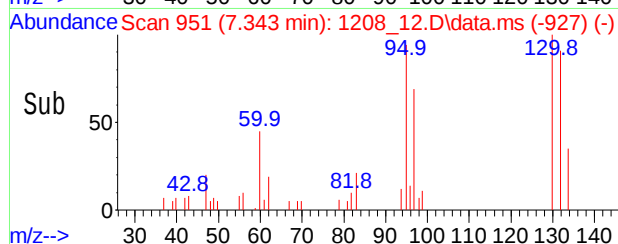
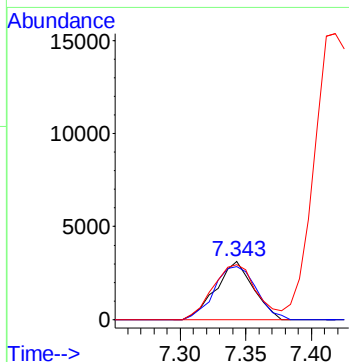
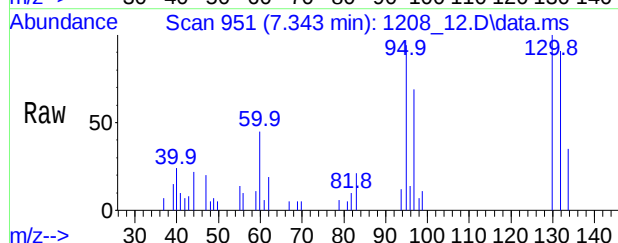
#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.838 min Scan# 736
Delta R.T. 0.032 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

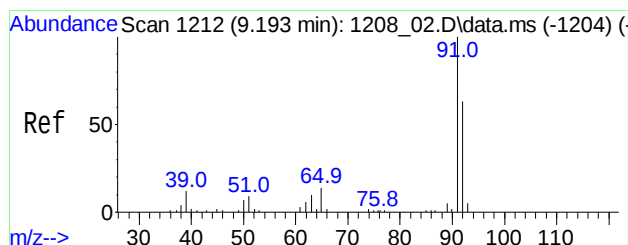
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	8358		
119	92.4	75.6	115.6	
121	30.1	11.2	51.2	



#39
Trichloroethene
Conc: 8\$ Below Cal
RT: 7.343 min Scan# 951
Delta R.T. 0.017 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

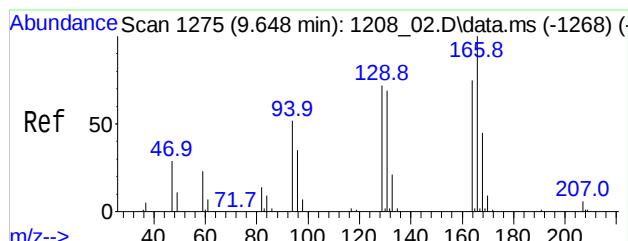
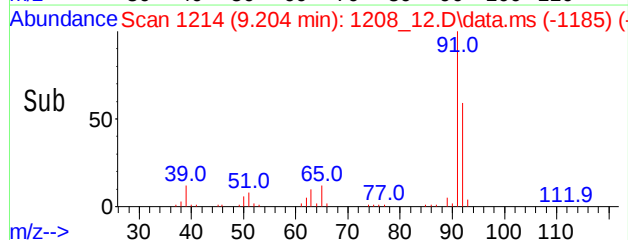
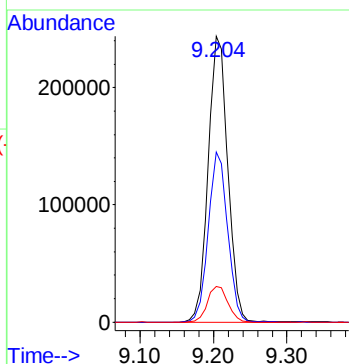
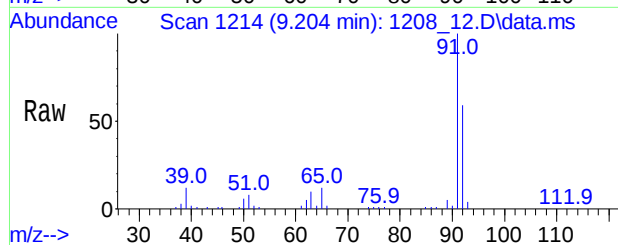
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	6143		
132	102.9	84.4	126.6	
95	110.8	0.0	0.0#	





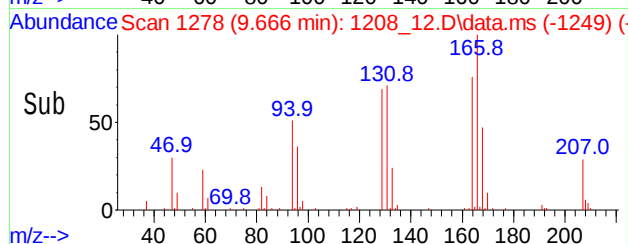
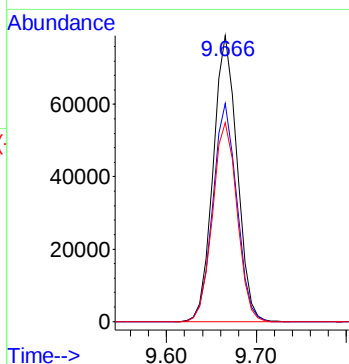
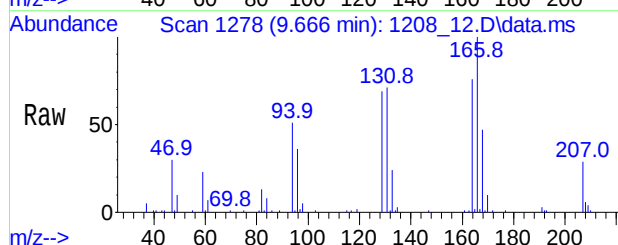
#48
Toluene
Conc: 8\$ 4.094 ppbv
RT: 9.204 min Scan# 1214
Delta R.T. 0.011 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

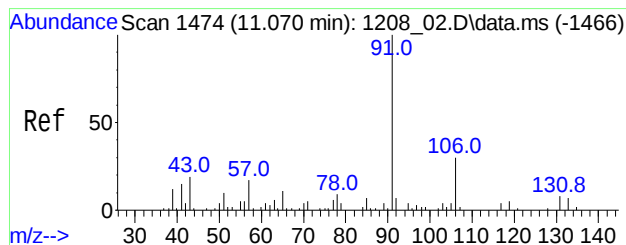
Tgt Ion: 91 Resp: 448908
Ion Ratio Lower Upper
91 100
92 58.8 52.6 79.0
65 13.0 0.0 0.0#



#52
Tetrachloroethene
Conc: 8\$ 1.857 ppbv
RT: 9.666 min Scan# 1278
Delta R.T. 0.011 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

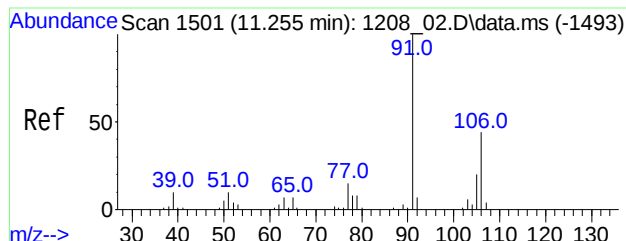
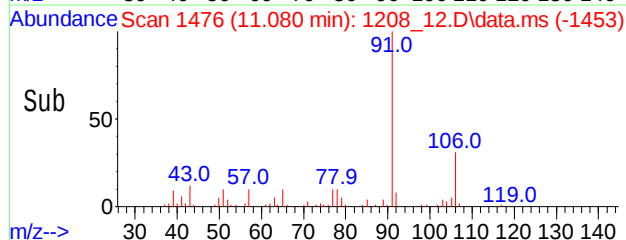
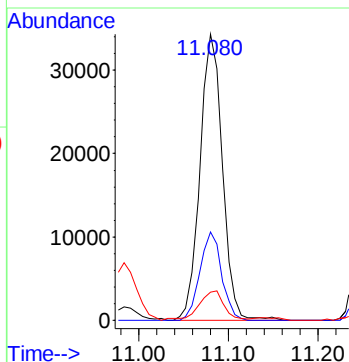
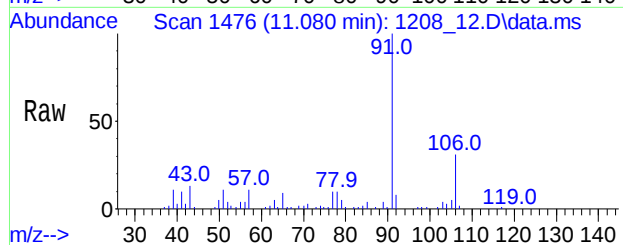
Tgt Ion: 166 Resp: 144842
Ion Ratio Lower Upper
166 100
164 76.5 58.9 88.3
129 71.2 53.3 79.9





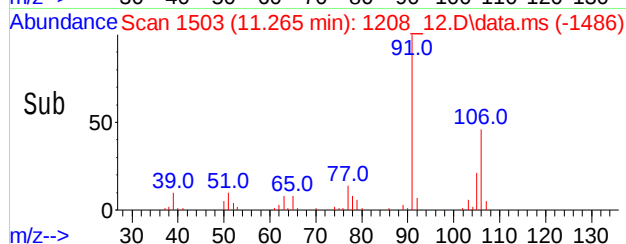
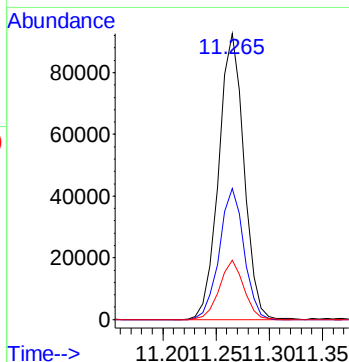
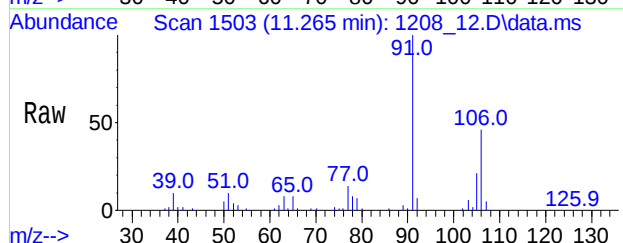
#56
Ethylbenzene
Conc: 8\$ 0.453 ppbv
RT: 11.080 min Scan# 1476
Delta R.T. 0.010 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

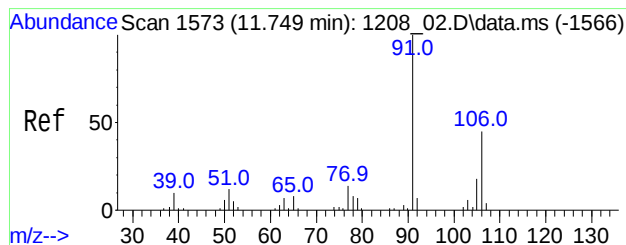
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	59436		
106	29.7	4.0	44.0	
77	11.4	0.0	20.0	



#57
m,p-Xylene
Conc: 8\$ 1.636 ppbv
RT: 11.265 min Scan# 1503
Delta R.T. 0.017 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

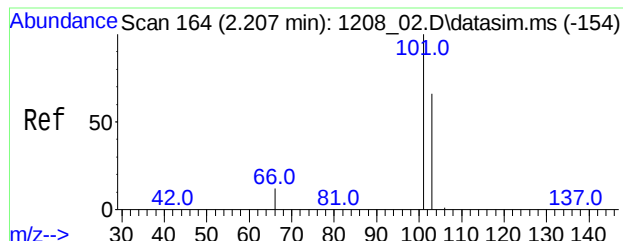
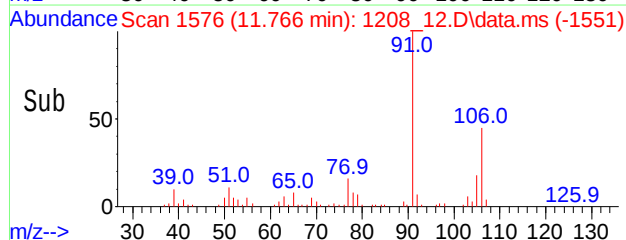
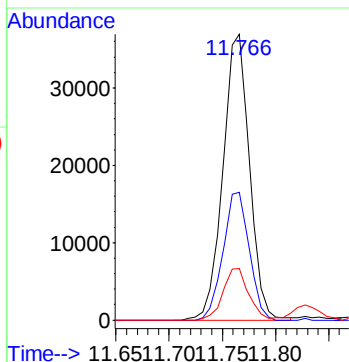
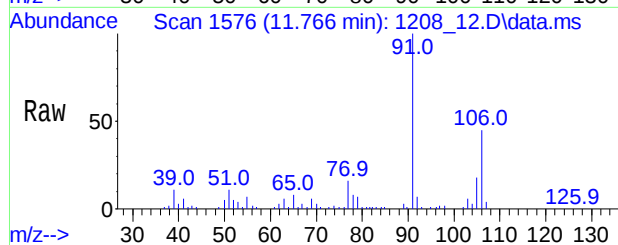
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	152872		
106	44.7	33.8	50.8	
105	19.9	10.8	16.2#	





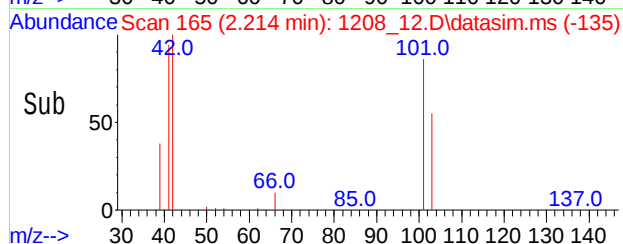
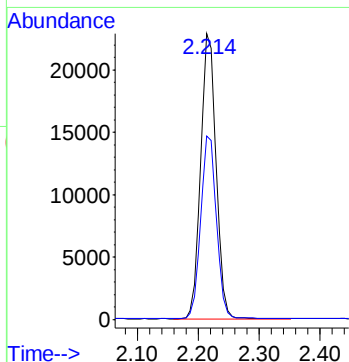
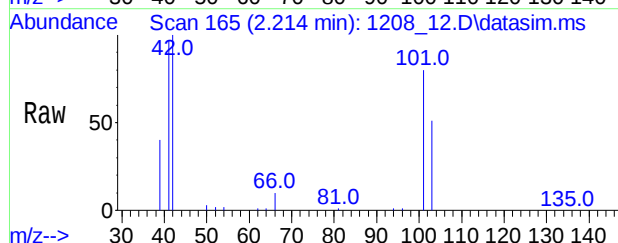
#61
o-Xylene
Conc: 8\$ 0.592 ppbv
RT: 11.766 min Scan# 1576
Delta R.T. 0.024 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

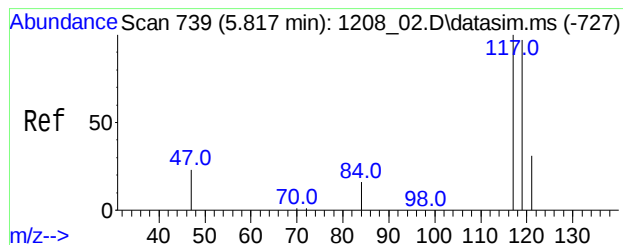
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	64149		
106	44.1	43.0	64.4	
105	17.5	15.4	23.0	



#84
Trichlorofluoromethane(sim)
Conc: 8\$ 0.232 ppbv
RT: 2.214 min Scan# 165
Delta R.T. 0.007 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

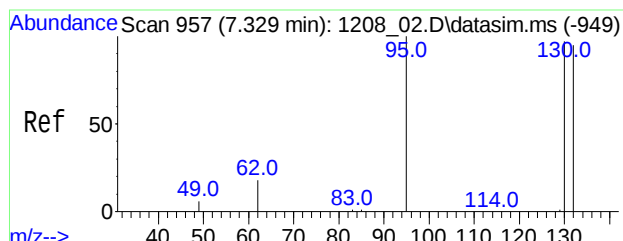
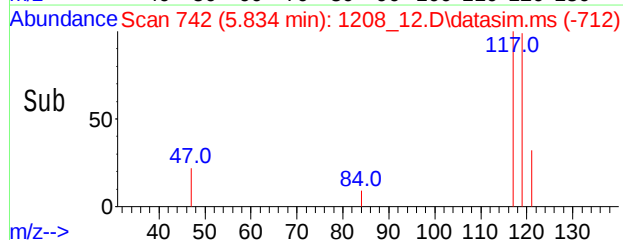
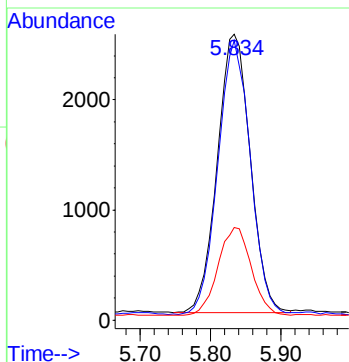
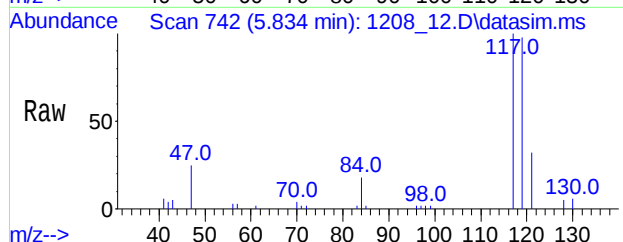
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	40238		
103	65.1	56.4	84.6	





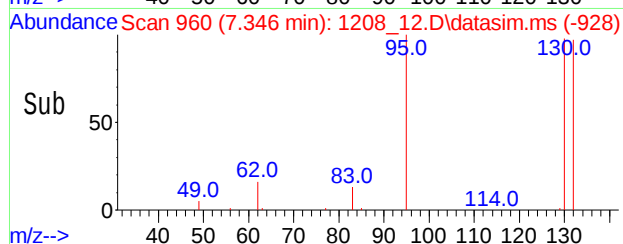
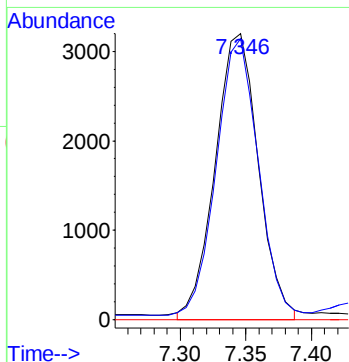
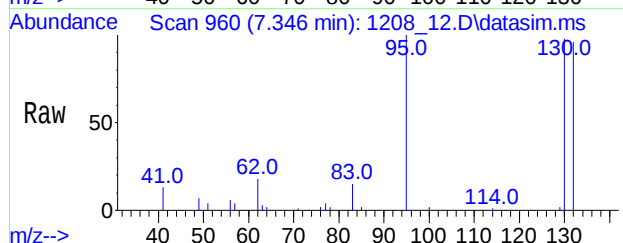
#86
Carbon Tetrachloride(sim)
Conc: 8\$ 0.073 ppbv
RT: 5.834 min Scan# 742
Delta R.T. 0.018 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

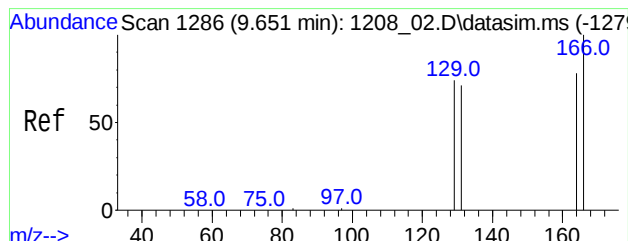
Tgt Ion: 117 Resp: 8296
Ion Ratio Lower Upper
117 100
119 96.7 77.4 116.0
121 31.8 25.4 38.2



#97
Trichloroethene(sim)
Conc: 8\$ 0.121 ppbv
RT: 7.343 min Scan# 960
Delta R.T. 0.014 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

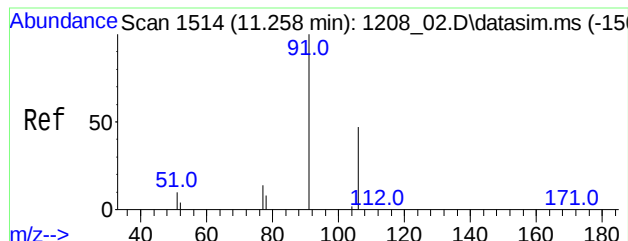
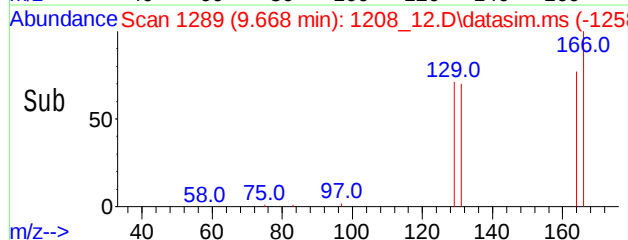
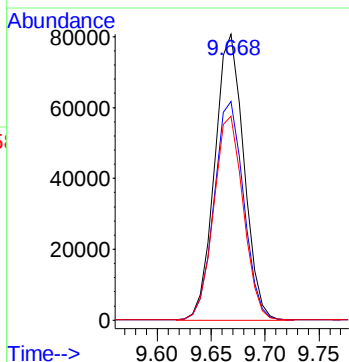
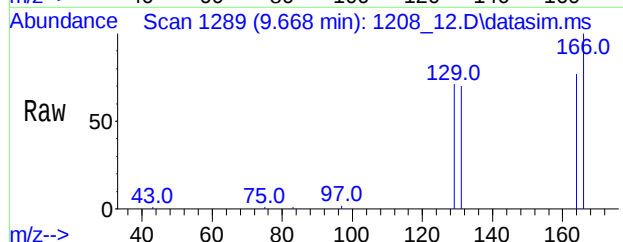
Tgt Ion: 130 Resp: 6143
Ion Ratio Lower Upper
130 100
132 101.5 72.0 108.0
97 79.7 34.1 51.1#





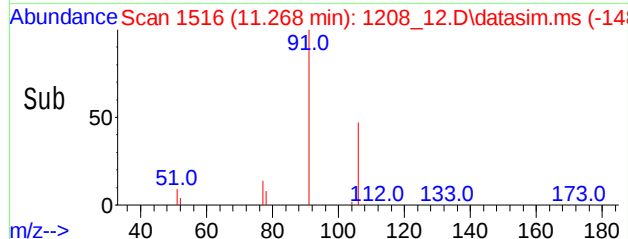
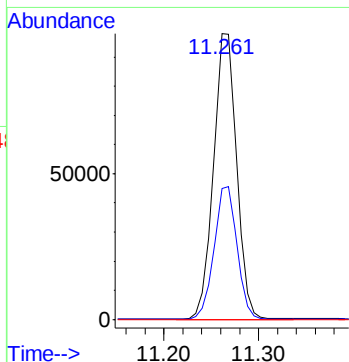
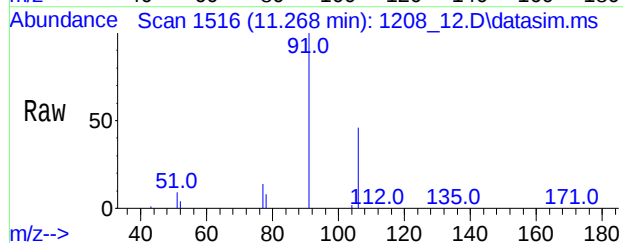
#103
Tetrachloroethene(sim)
Conc: 8\$ 2.110 ppbv
RT: 9.666 min Scan# 1289
Delta R.T. 0.018 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	144577		
164	76.6	31.9		71.9#
129	71.2	58.6		98.6



#107
m,p-Xylene(sim)
Conc: 8\$ 1.589 ppbv
RT: 11.265 min Scan# 1516
Delta R.T. 0.017 min
Lab File: 1208_12.D
Acq: 9 Dec 2019 11:23 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	152961		
106	44.6	38.1		46.5
105	19.9	10.8		16.2#



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCE70607	Lab Sample ID:	CE81151 BL
Canister:	BL	Lab File ID:	1208_07.D
Instrument:	CHEM24	Column:	RTX-VMS
Purge Volume	200 (cc)	Date Received:	12/05/19
		Date Analyzed:	12/09/19
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\12DEC\08\
Data File : 1208_07.D
Acq On : 9 Dec 2019 2:32 am
Operator : Keith
Client ID : CE81151 BLANK
Lab ID : CE81151 BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 10:48:56 2019
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Dec 09 09:45:44 2019
Response via : Initial Calibration

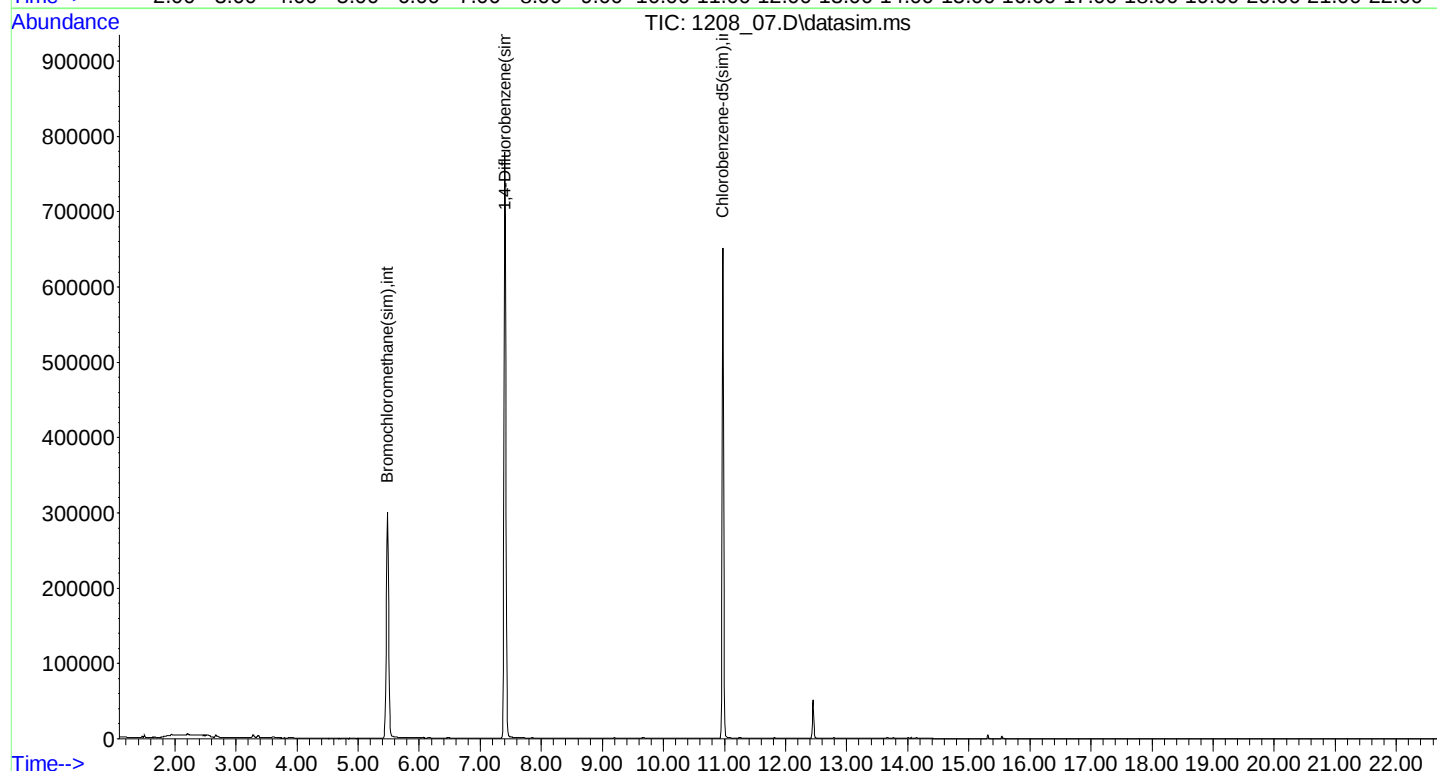
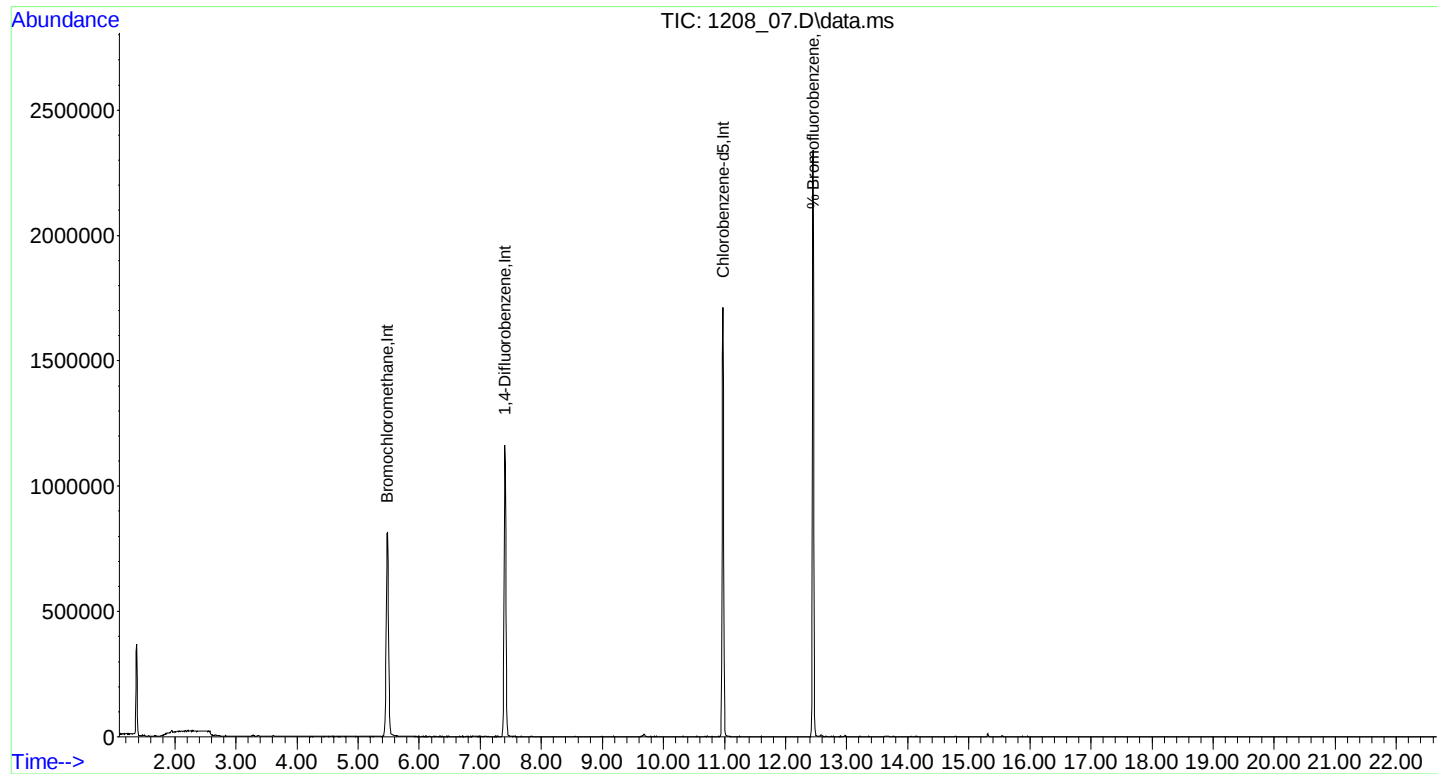
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.482	130	418981	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.401	114	1033780	10.000	ng	0.00
53) Chlorobenzene-d5	10.974	82	508460	10.000	ng	0.00
80) Bromochloromethane(sim)	5.478	130	433132	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.404	114	1134246	10.000	ng	# 0.00
104) Chlorobenzene-d5(sim)	10.970	82	556729	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.451	95	683284	8.731	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	87.30%

Target Compounds	Qvalue
------------------	--------

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\12DEC\08\
Data File : 1208_07.D
Acq On : 9 Dec 2019 2:32 am
Operator : Keith
Client ID : CE81151 BLANK
Lab ID : CE81151 BLANK
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 10:48:56 2019
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1207.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 09 09:45:44 2019
Response via : Initial Calibration



Data Path : H:\AIR2019\CHEM24\12DEC\08\
 Data File : 1208_13.D
 Acq On : 9 Dec 2019 11:59 am
 Operator : Keith
 Sample : 81151 dup
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

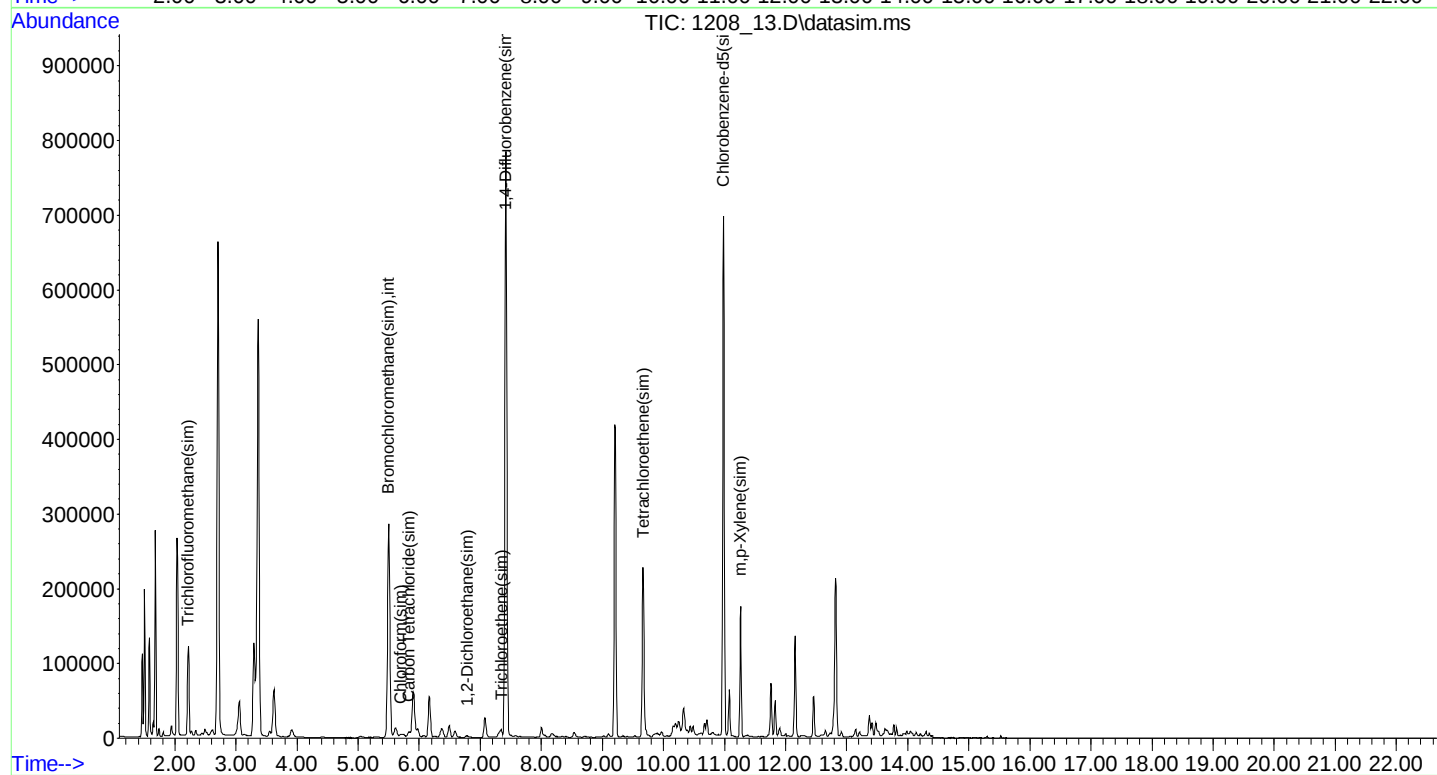
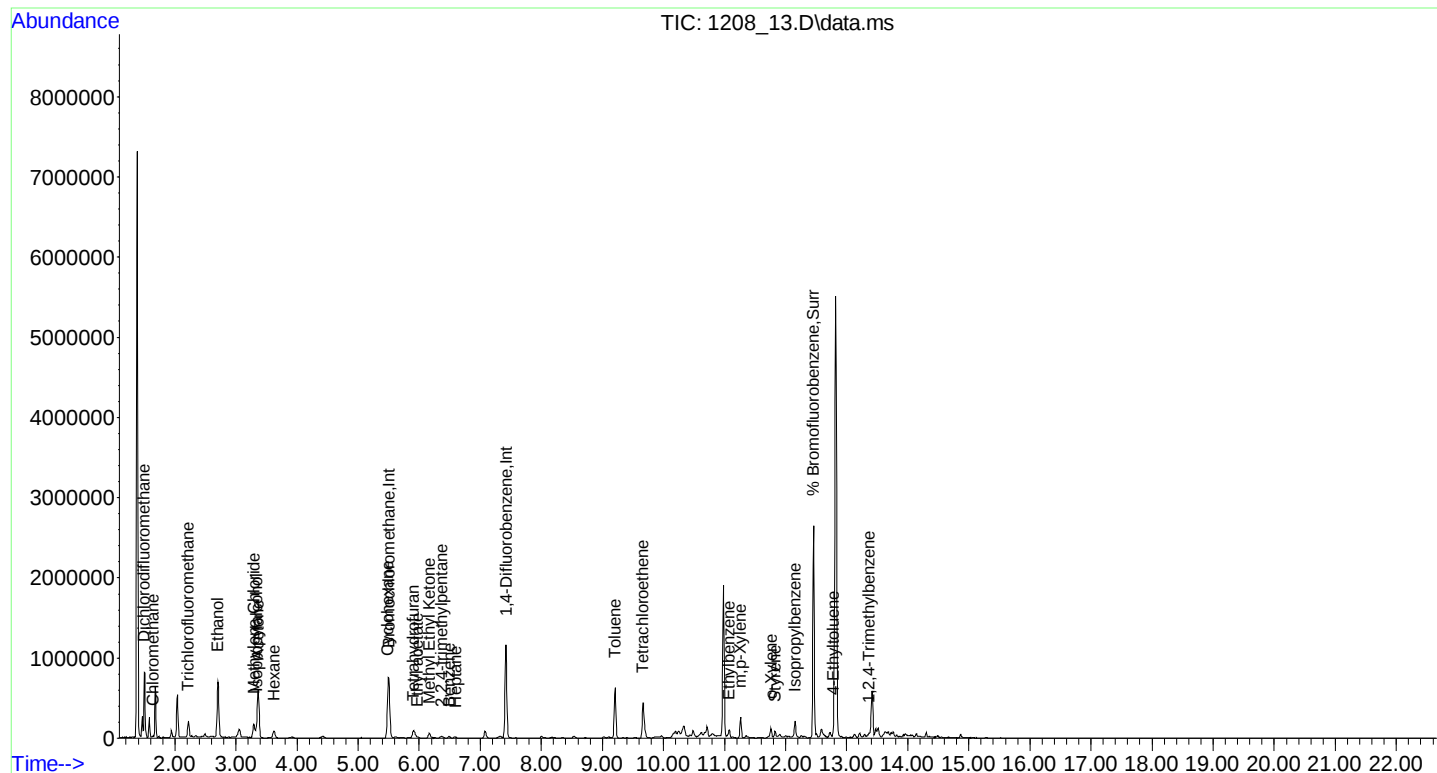
Quant Time: Dec 09 13:33:28 2019
 Quant Title :
 QLast Update : Wed Dec 11 09:11:44 2019
 Response via : Initial Calibration

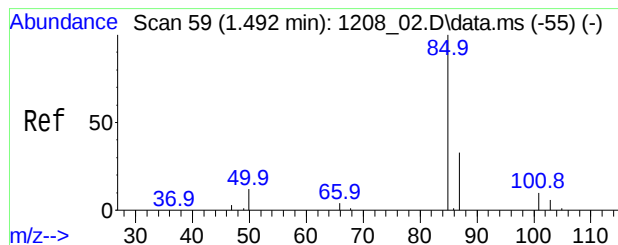
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.504	130	385079	10.000	ng	0.03
36) 1,4-Difluorobenzene	7.422	114	1075810	10.000	ng	0.02
53) Chlorobenzene-d5	10.981	82	561243	10.000	ng	0.01
80) Bromochloromethane(sim)	5.499	130	396311	10.000	ng	# 0.02
94) 1,4-Difluorobenzene(sim)	7.418	114	1182210	10.000	ng	# 0.02
104) Chlorobenzene-d5(sim)	10.984	82	609393	10.000	ng	0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.458	95	784630	9.083	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.80%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.499	101	10568	0.620	ppbv#	75
4) Chloromethane	1.643	50	16881	0.516	ppbv	95
10) Ethanol	2.704	45	800284	77.964	ppbv#	60
12) Acetone	3.361	43	870234	14.316	ppbv	92
13) Trichlorofluoromethane	2.218	101	38585	0.269	ppbv#	84
14) Isopropylalcohol	3.340	45	103844	1.774	ppbv#	1
17) Methylene Chloride	3.292	49	86666	1.977	ppbv#	77
25) Methyl Ethyl Ketone	6.167	43	91523	1.445	ppbv#	49
27) Hexane	3.621	57	47571	1.127	ppbv#	70
29) Ethyl acetate	5.972	43	19193	0.315	ppbv#	57
30) Tetrahydrofuran	5.907	42	43603	1.915	ppbv	100
33) Benzene	6.491	78	23072	0.261	ppbv#	89
35) Cyclohexane	5.489	56	6784	0.170	ppbv	94
40) 2,2,4-trimethylpentane	6.368	57	19785	0.181	ppbv#	68
43) Heptane	6.594	43	7932	0.183	ppbv	98
48) Toluene	9.207	91	449400	4.039	ppbv	91
52) Tetrachloroethene	9.662	166	122340	1.546	ppbv	93
56) Ethylbenzene	11.077	91	55142	0.422	ppbv	89
57) m, p-Xylene	11.262	91	142895	1.537	ppbv#	92
59) Styrene	11.825	104	34090	0.483	ppbv#	35
61) o-Xylene	11.763	91	60394	0.560	ppbv#	87
64) Isopropylbenzene	12.153	105	122738	0.935	ppbv	97
66) 4-Ethyltoluene	12.782	105	26037	0.191	ppbv#	29
68) 1,2,4-Trimethylbenzene	13.373	105	18852	0.163	ppbv#	91
84) Trichlorofluoromethane...	2.214	101	39452	0.227	ppbv	94
86) Carbon Tetrachloride(sim)	5.838	117	8328	0.073	ppbv	99
92) Chloroform(sim)	5.694	83	4419	0.046	ppbv	95
93) 1,2-Dichloroethane(sim)	6.785	62	3186	0.049	ppbv	91
97) Trichloroethene(sim)	7.347	130	5815	0.113	ppbv#	81
103) Tetrachloroethene(sim)	9.662	166	121985	1.758	ppbv#	82
107] m, p-Xylene(sim)	11.262	91	142895	1.501	ppbv#	92

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM24\12DEC\08\
Data File : 1208_13.D
Acq On : 9 Dec 2019 11:59 am
Operator : Keith
Sample : 81151 dup
Misc :
ALS Vial : 14 Sample Multiplier: 1

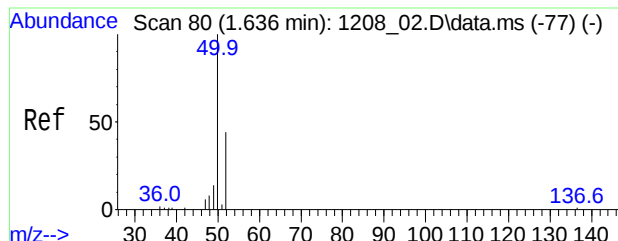
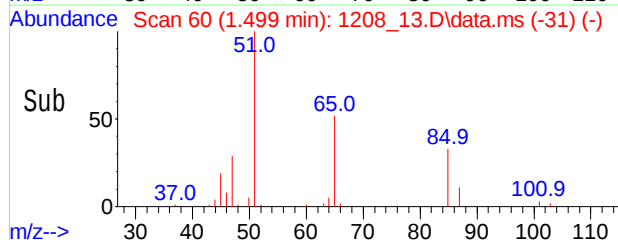
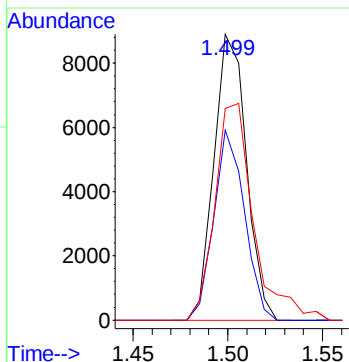
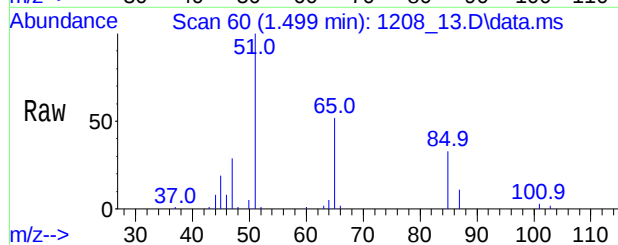
Quant Time: Dec 09 13:33:28 2019
Quant Title :
Last Update : Wed Dec 11 09:11:44 2019
Response via : Initial Calibration





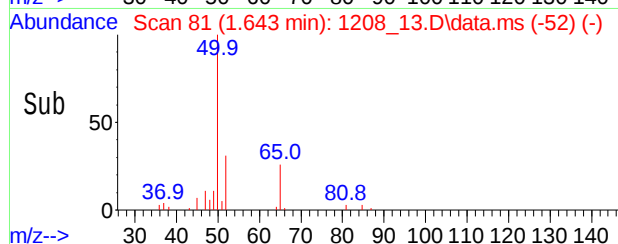
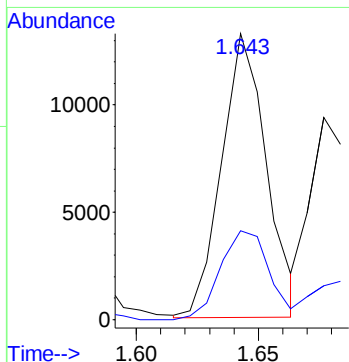
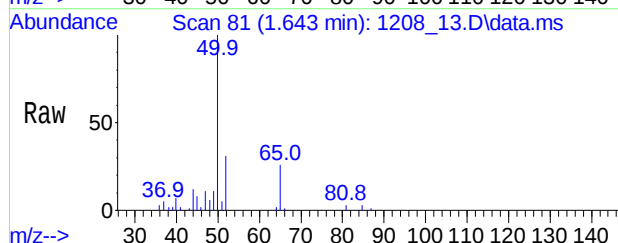
#3
Dichlorodifluoromethane
Conc: 8\$ 0.620 ppbv
RT: 1.499 min Scan# 60
Delta R.T. -0.000 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

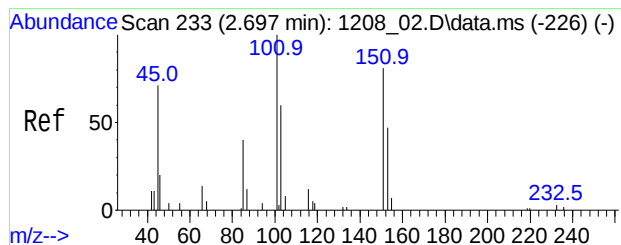
Tgt Ion: 101 Resp: 10568
Ion Ratio Lower Upper
101 100
103 62.9 55.7 83.5
66 90.3 45.1 67.7#



#4
Chloromethane
Conc: 8\$ 0.516 ppbv
RT: 1.643 min Scan# 81
Delta R.T. -0.000 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

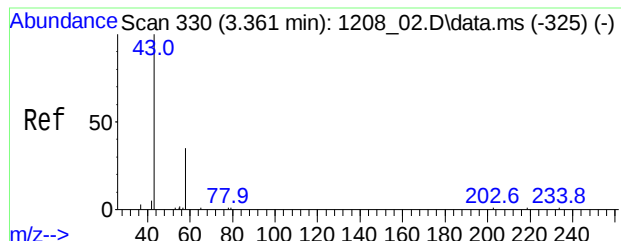
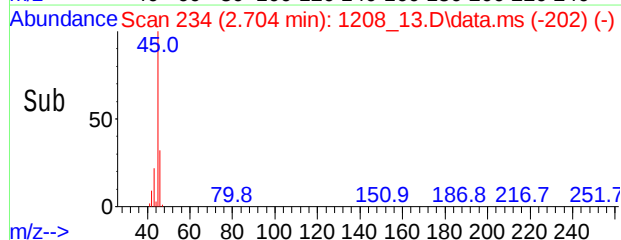
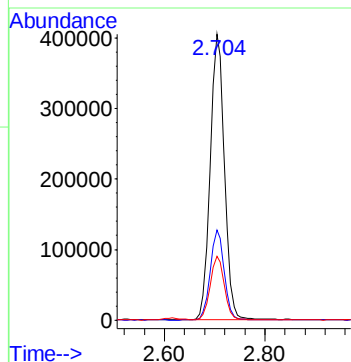
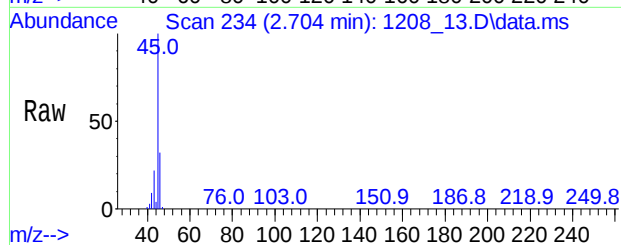
Tgt Ion: 50 Resp: 16881
Ion Ratio Lower Upper
50 100
52 33.7 11.1 51.1





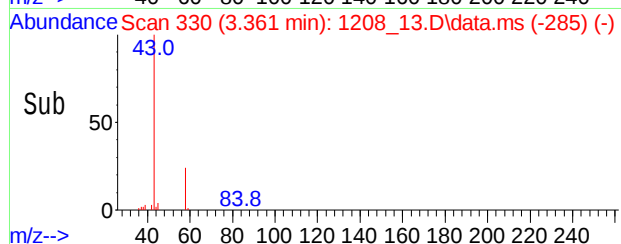
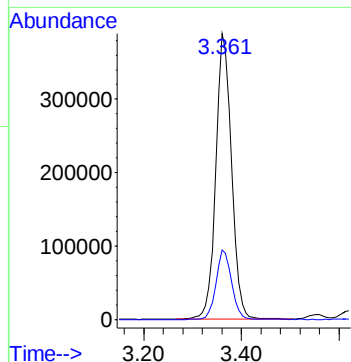
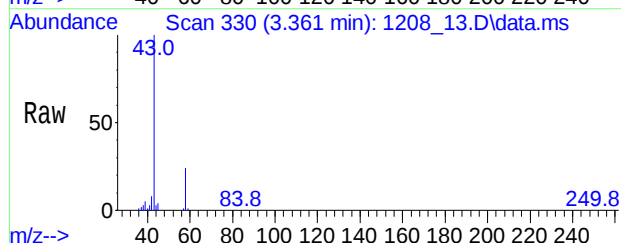
#10
Ethanol
Conc: 8\$ 77.964 ppbv
RT: 2.704 min Scan# 234
Delta R.T. 0.020 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

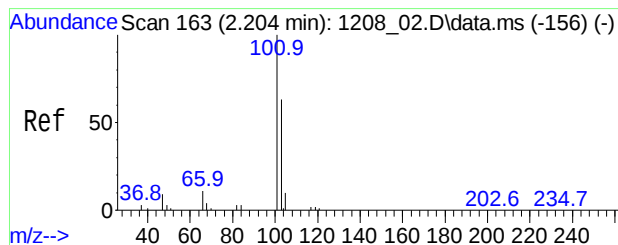
Tgt Ion: 45 Resp: 800284
Ion Ratio Lower Upper
45 100
46 31.1 5.9 8.9#
43 21.9 35.8 53.8#



#12
Acetone
Conc: 8\$ 14.316 ppbv
RT: 3.361 min Scan# 330
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

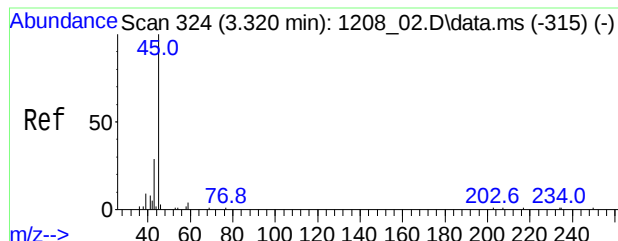
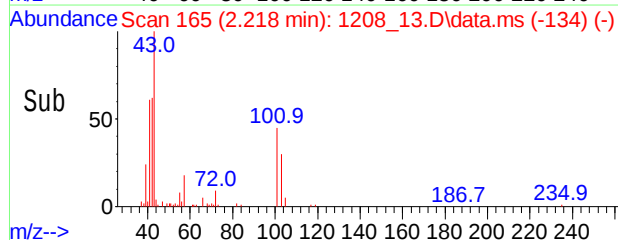
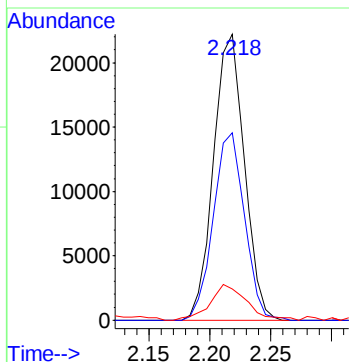
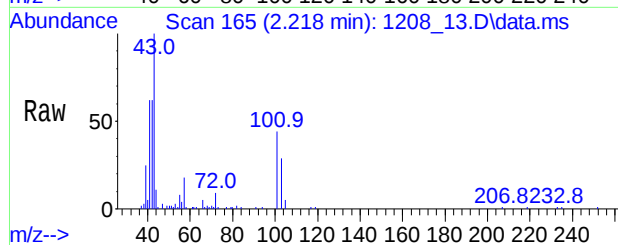
Tgt Ion: 43 Resp: 870234
Ion Ratio Lower Upper
43 100
58 24.0 16.3 24.5





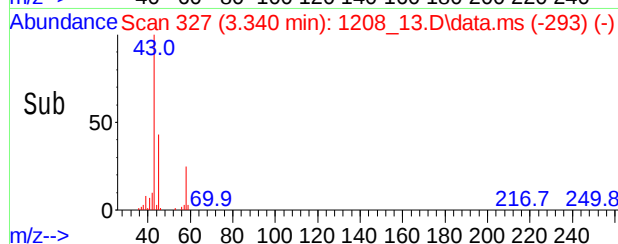
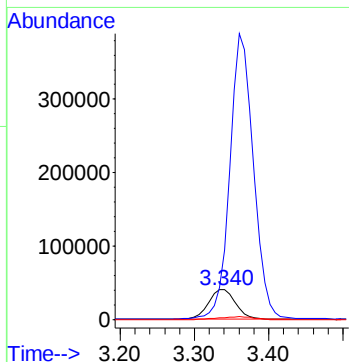
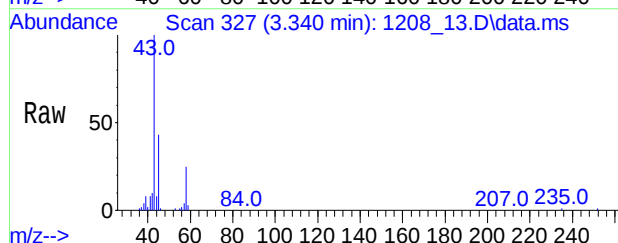
#13
Trichlorofluoromethane
Conc: 8\$ 0.269 ppbv
RT: 2.218 min Scan# 165
Delta R.T. 0.014 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

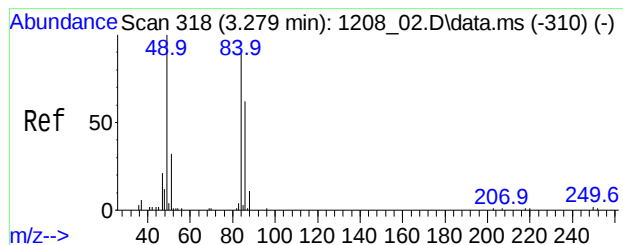
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	38585		
103	66.3	60.1	90.1	
66	14.5	25.4	38.0#	



#14
Isopropylalcohol
Conc: 8\$ 1.774 ppbv
RT: 3.340 min Scan# 327
Delta R.T. 0.034 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

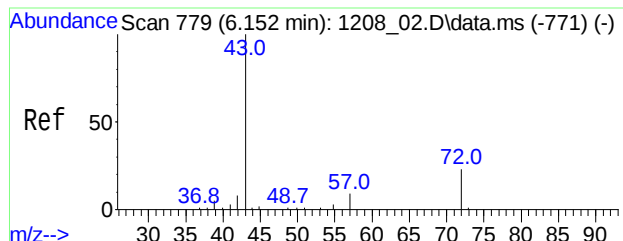
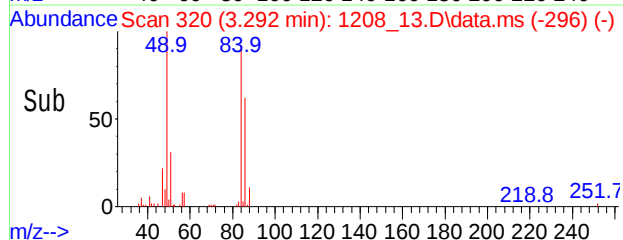
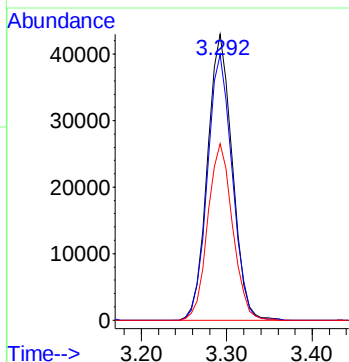
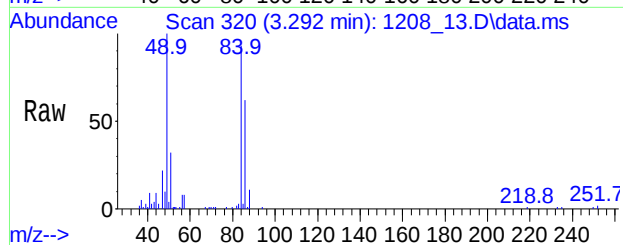
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	103844		
43	837.7	29.8	44.8#	
59	11.3	0.0	0.0#	





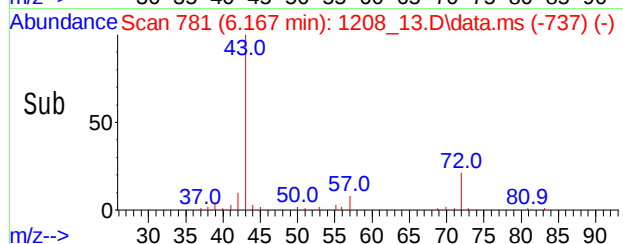
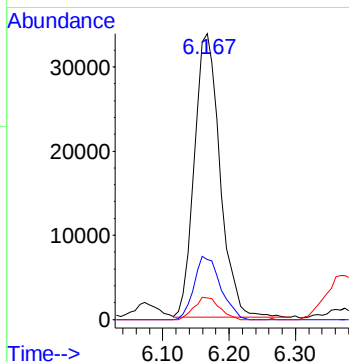
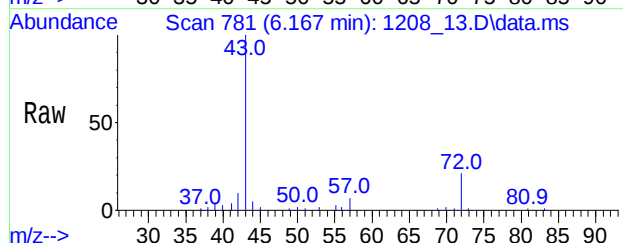
#17
Methylene Chloride
Conc: 8\$ 1.977 ppbv
RT: 3.292 min Scan# 320
Delta R.T. 0.013 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

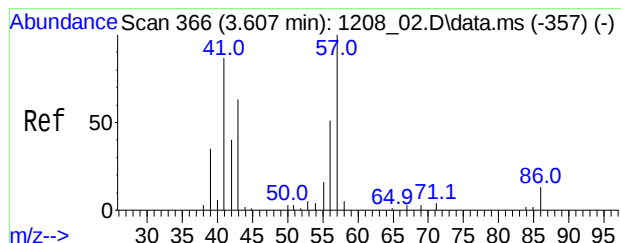
Tgt Ion: 49 Resp: 86666
Ion Ratio Lower Upper
49 100
84 93.2 60.3 90.5#
86 61.7 35.9 53.9#



#25
Methyl Ethyl Ketone
Conc: 8\$ 1.445 ppbv
RT: 6.167 min Scan# 781
Delta R.T. 0.015 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

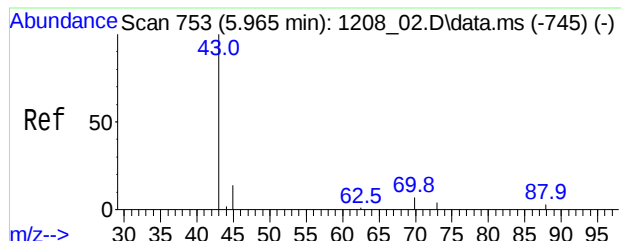
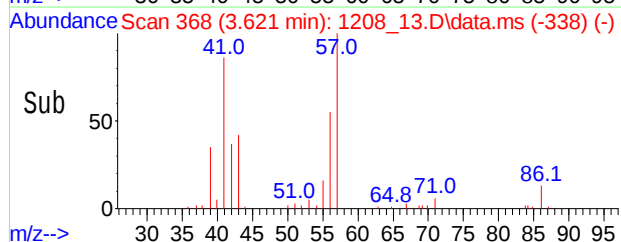
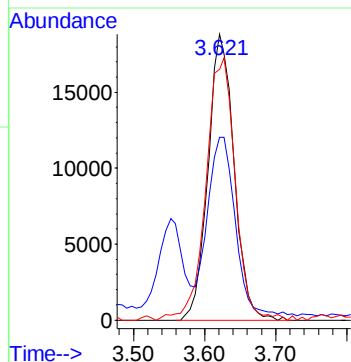
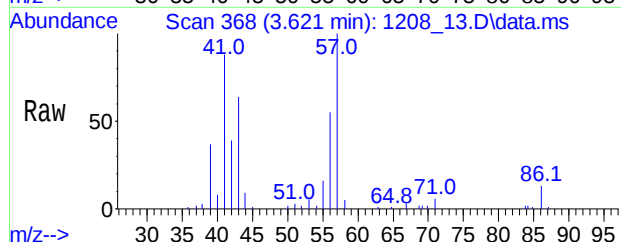
Tgt Ion: 43 Resp: 91523
Ion Ratio Lower Upper
43 100
72 23.5 5.0 7.4#
57 8.3 0.0 0.0#





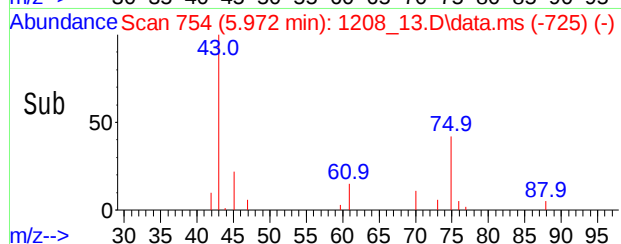
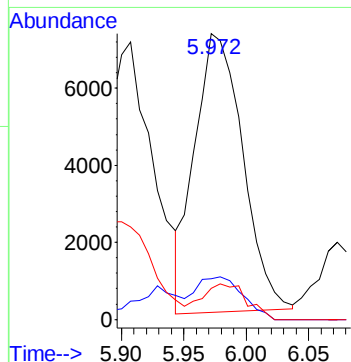
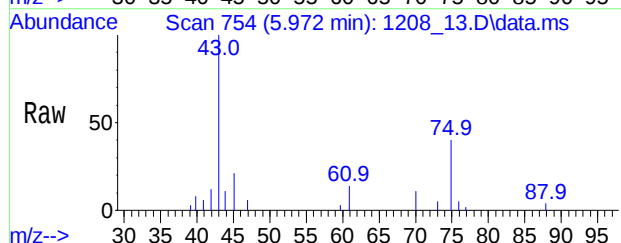
#27
Hexane
Conc: 8\$ 1.127 ppbv
RT: 3.621 min Scan# 368
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

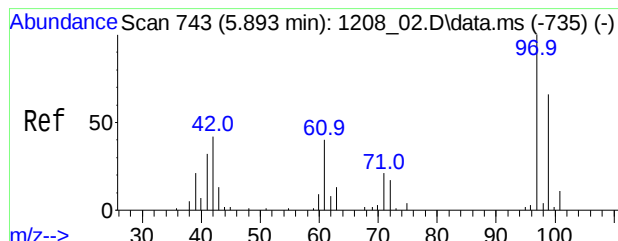
Tgt Ion: 57 Resp: 47571
Ion Ratio Lower Upper
57 100
43 66.0 44.1 66.1
41 102.9 118.4 177.6#



#29
Ethyl acetate
Conc: 8\$ 0.315 ppbv
RT: 5.972 min Scan# 754
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

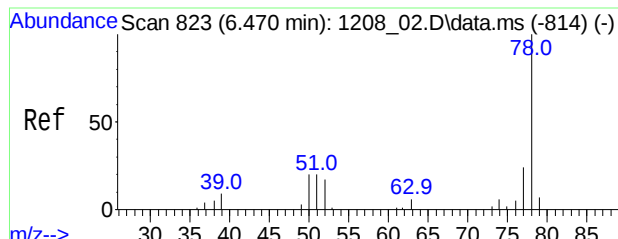
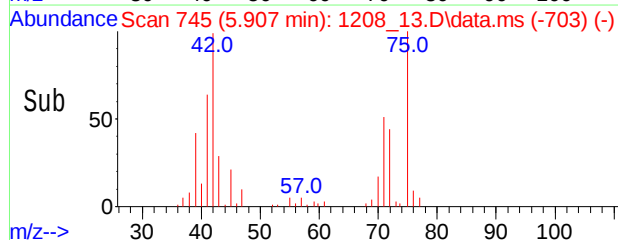
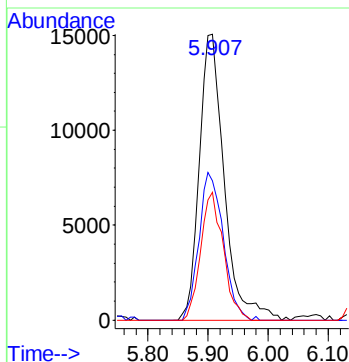
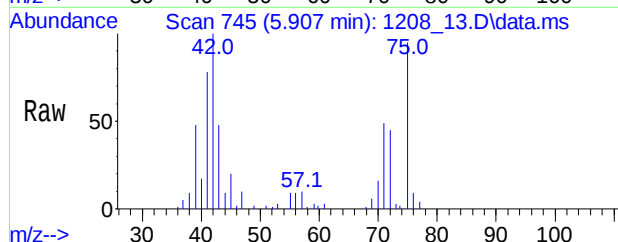
Tgt Ion: 43 Resp: 19193
Ion Ratio Lower Upper
43 100
61 14.8 33.8 50.8#
70 12.1 0.0 0.0#





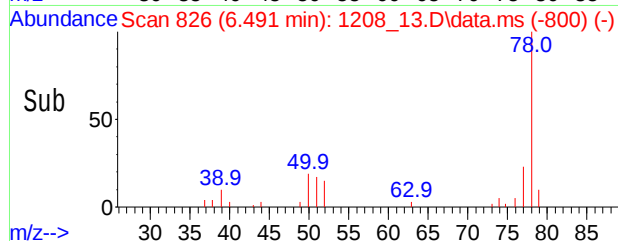
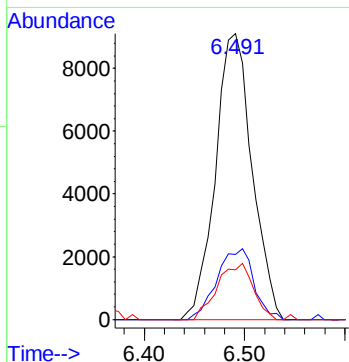
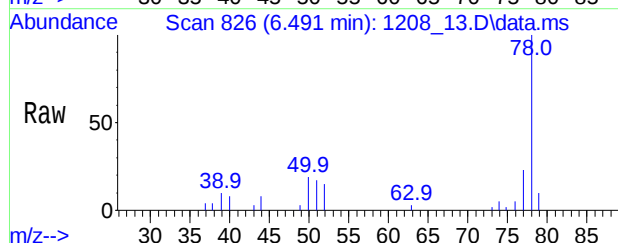
#30
Tetrahydrofuran
Conc: 8\$ 1.915 ppbv
RT: 5.907 min Scan# 745
Delta R.T. 0.000 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

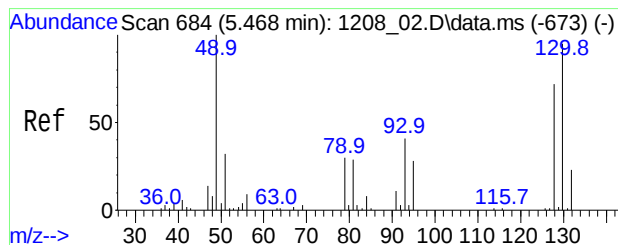
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	43603		
71	50.2	0.0	0.0#	
72	40.7	0.0	0.0#	



#33
Benzene
Conc: 8\$ 0.261 ppbv
RT: 6.491 min Scan# 826
Delta R.T. 0.028 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

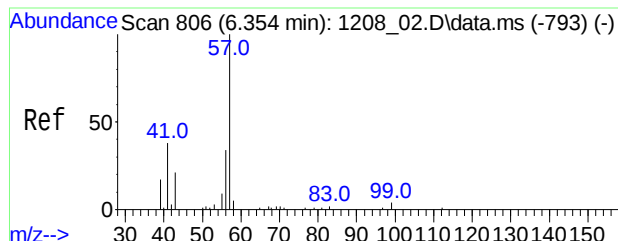
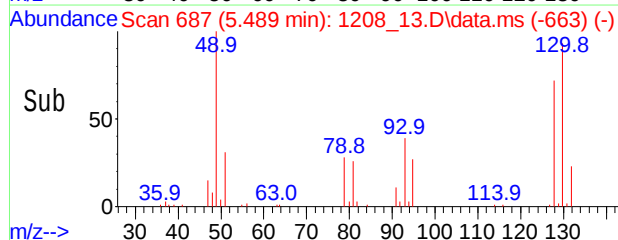
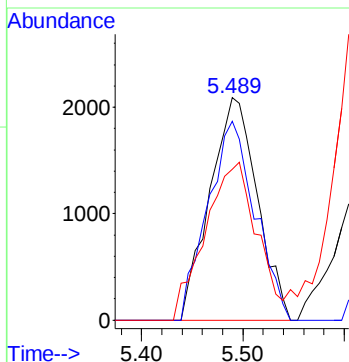
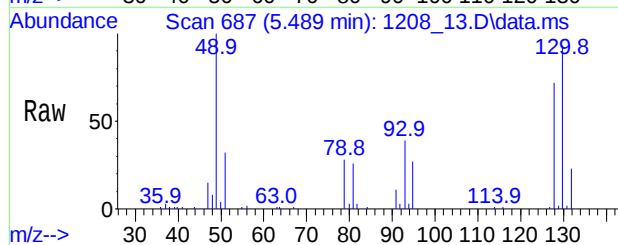
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	23072		
77	24.9	14.5	21.7#	
51	19.2	13.1	19.7	





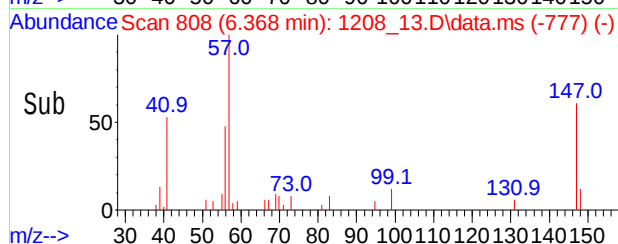
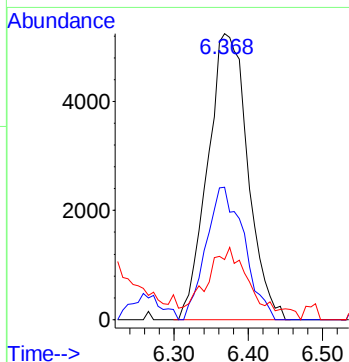
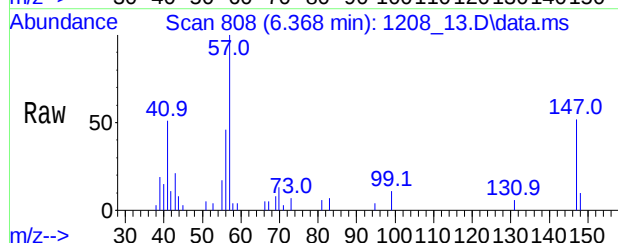
#35
Cyclohexane
Conc: 8\$ 0.170 ppbv
RT: 5.489 min Scan# 687
Delta R.T. 0.021 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

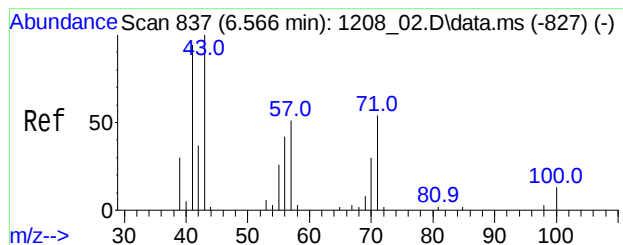
Tgt Ion	Ratio	Resp	Lower	Upper
56	100	6784		
84	89.2	71.0	106.6	
41	77.4	70.7	106.1	



#40
2,2,4-trimethylpentane
Conc: 8\$ 0.181 ppbv
RT: 6.368 min Scan# 808
Delta R.T. 0.028 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

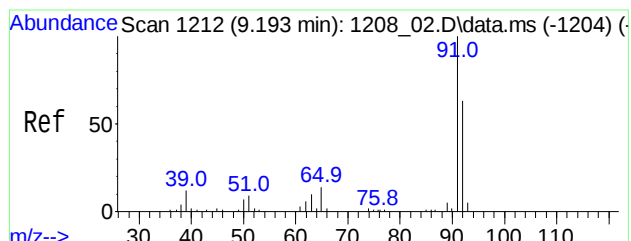
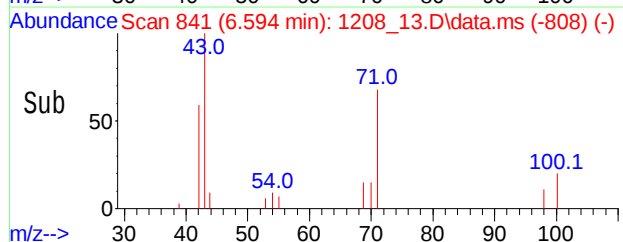
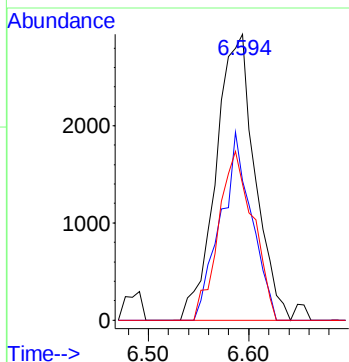
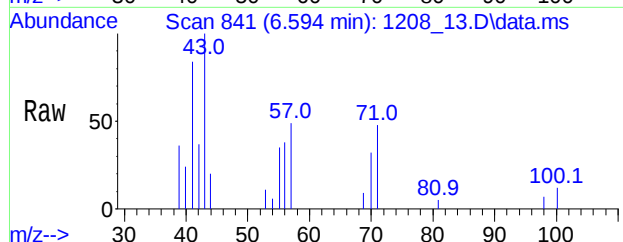
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	19785		
56	43.8	21.7	32.5#	
43	19.1	0.0	0.0#	





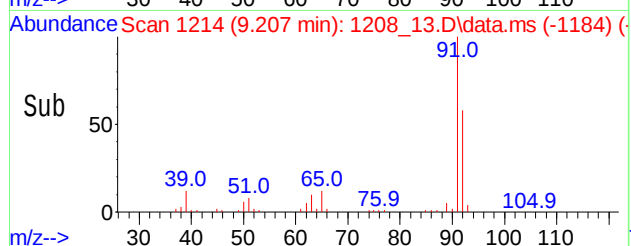
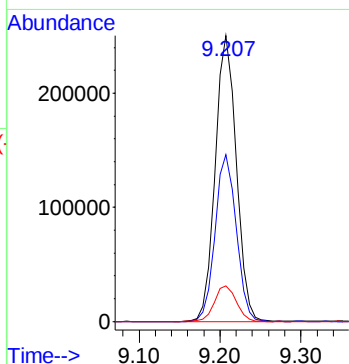
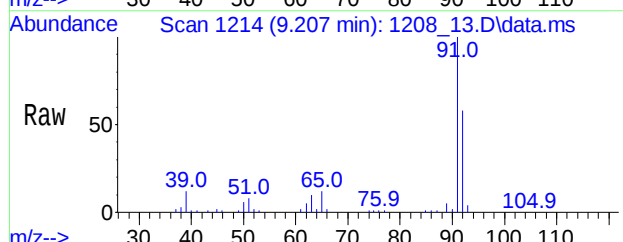
#43
Heptane
Conc: 8\$ 0.183 ppbv
RT: 6.594 min Scan# 841
Delta R.T. 0.028 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

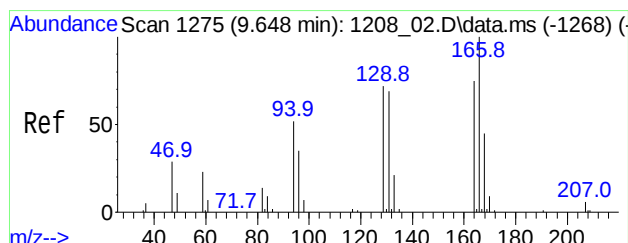
Tgt Ion: 43 Resp: 7932
Ion Ratio Lower Upper
43 100
57 52.2 43.0 64.4
71 52.5 0.0 0.0#



#48
Toluene
Conc: 8\$ 4.039 ppbv
RT: 9.207 min Scan# 1214
Delta R.T. 0.014 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

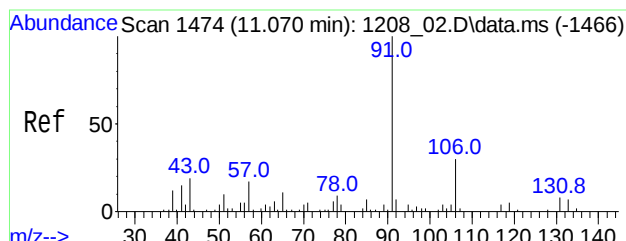
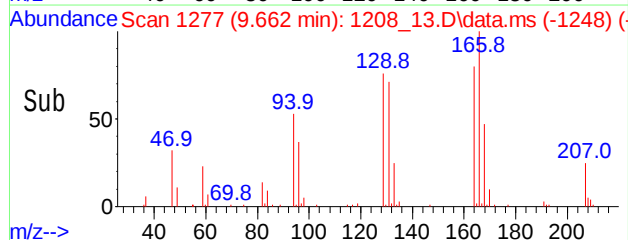
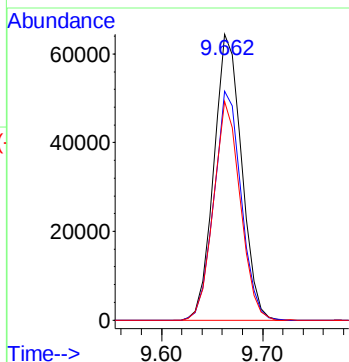
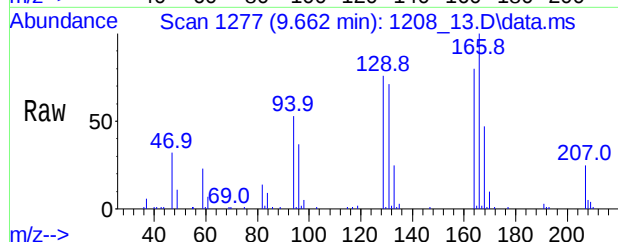
Tgt Ion: 91 Resp: 449400
Ion Ratio Lower Upper
91 100
92 58.3 52.6 79.0
65 12.9 0.0 0.0#





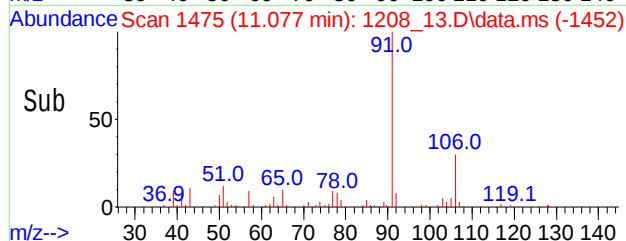
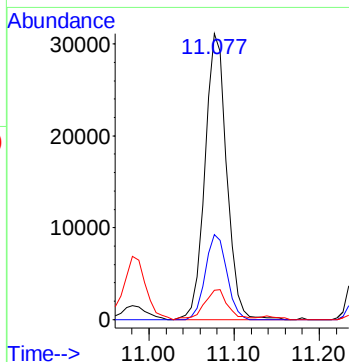
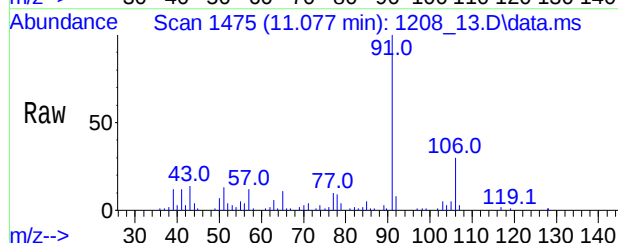
#52
Tetrachloroethene
Conc: 8\$ 1.546 ppbv
RT: 9.662 min Scan# 1277
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

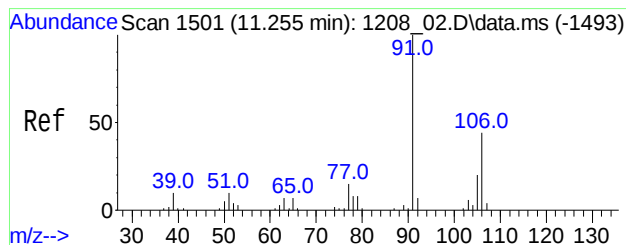
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	122340		
164	78.7	58.9	88.3	
129	73.8	53.3	79.9	



#56
Ethylbenzene
Conc: 8\$ 0.422 ppbv
RT: 11.077 min Scan# 1475
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

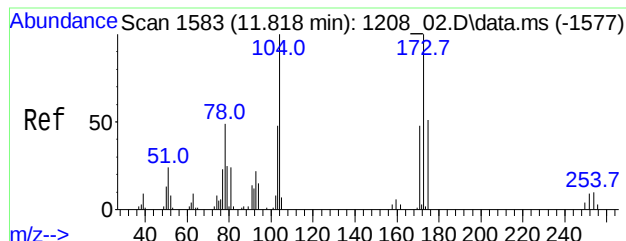
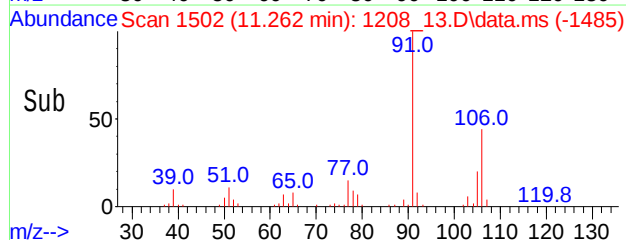
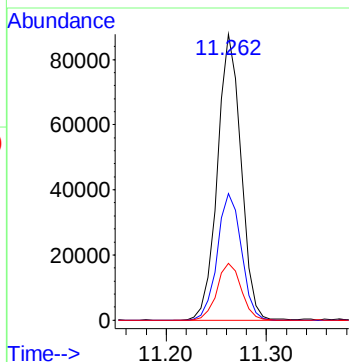
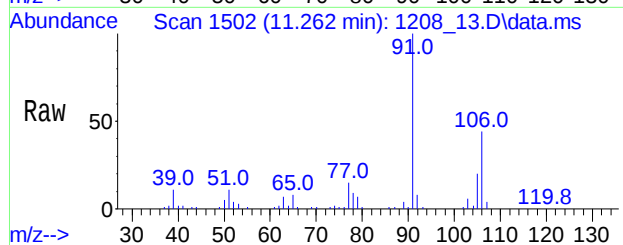
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	55142		
106	29.4	4.0	44.0	
77	11.4	0.0	20.0	





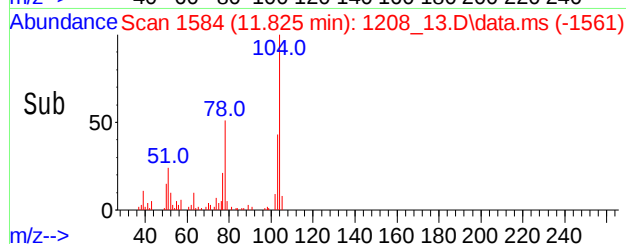
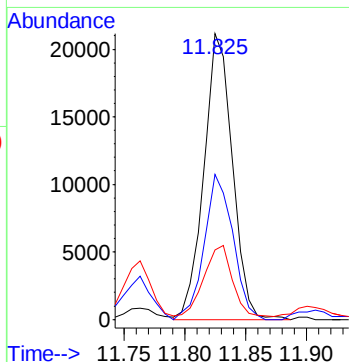
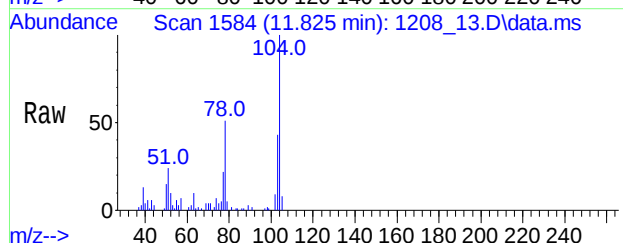
#57
m,p-Xylene
Conc: 8\$ 1.537 ppbv
RT: 11.262 min Scan# 1502
Delta R.T. 0.014 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

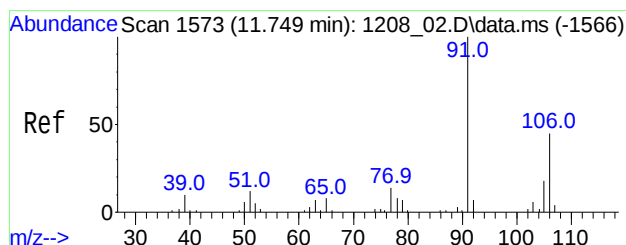
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	142895		
106	45.2	33.8	50.8	
105	20.4	10.8	16.2	



#59
Styrene
Conc: 8\$ 0.483 ppbv
RT: 11.825 min Scan# 1584
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

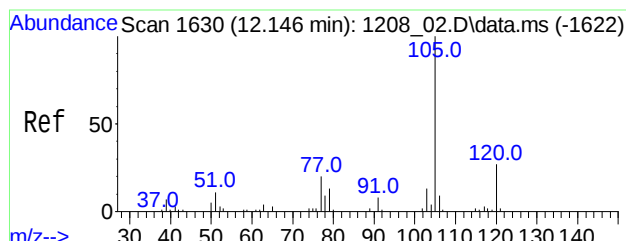
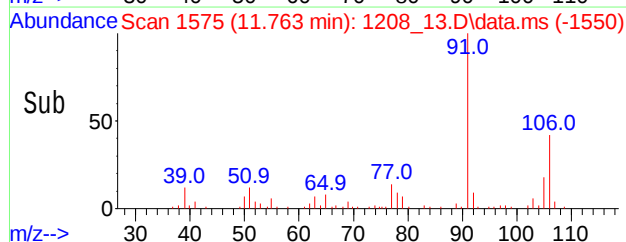
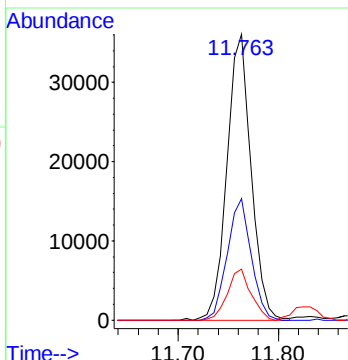
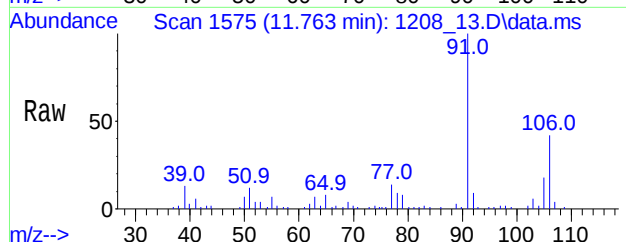
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	34090		
78	50.9	16.6	24.8	
51	26.0	0.0	0.0	





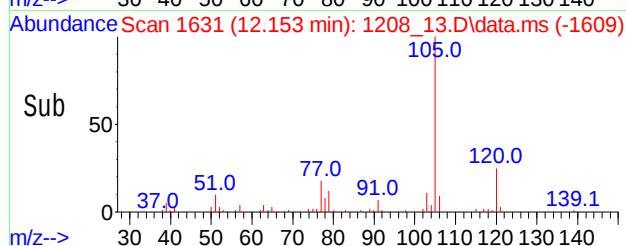
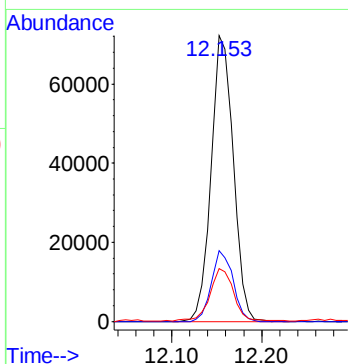
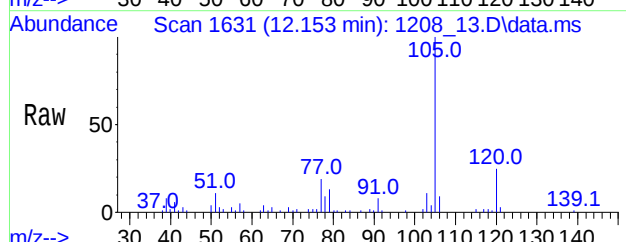
#61
o-Xylene
Conc: 8\$ 0.560 ppbv
RT: 11.763 min Scan# 1575
Delta R.T. 0.021 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

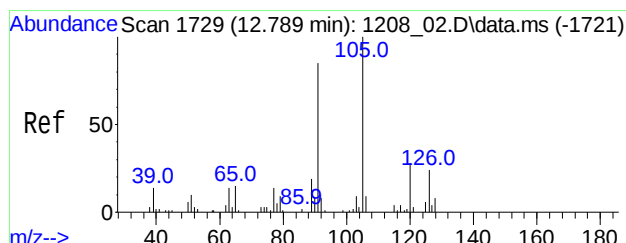
Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.0	43.0	64.4#
105	17.4	15.4	23.0



#64
Isopropylbenzene
Conc: 8\$ 0.935 ppbv
RT: 12.153 min Scan# 1631
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

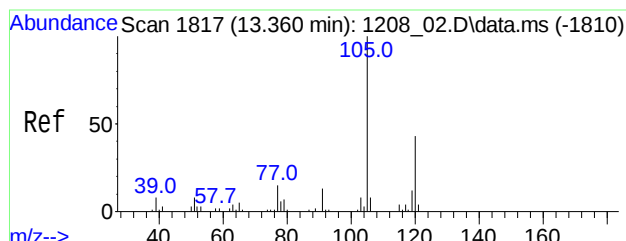
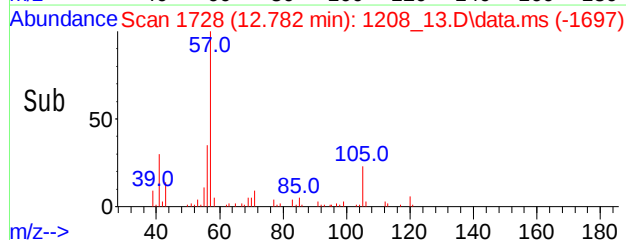
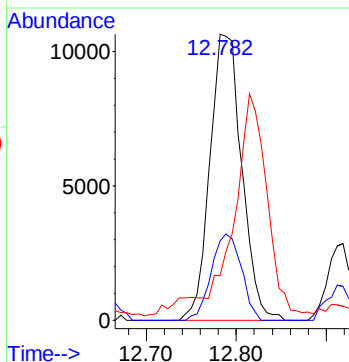
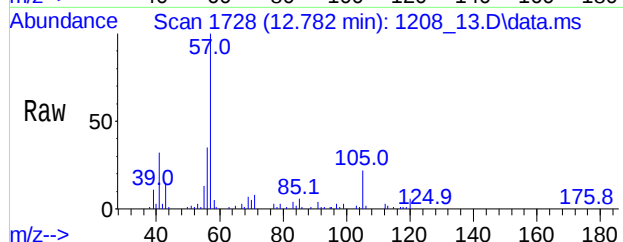
Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.0	18.4	27.6
77	19.8	14.2	21.2





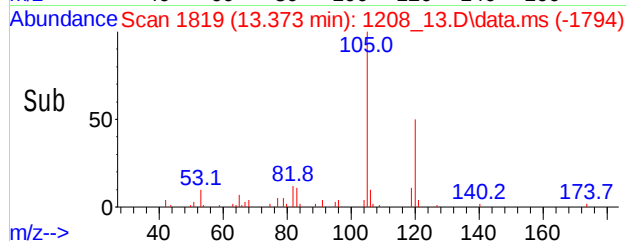
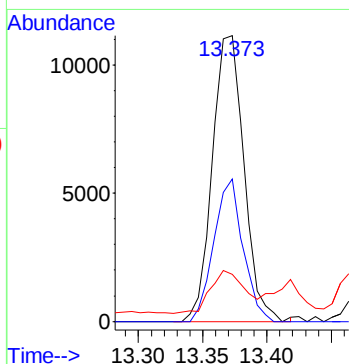
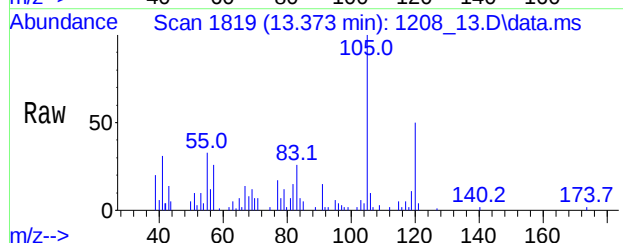
#66
4-Ethyltoluene
Conc: 8\$ 0.191 ppbv
RT: 12.782 min Scan# 1728
Delta R.T. 0.000 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

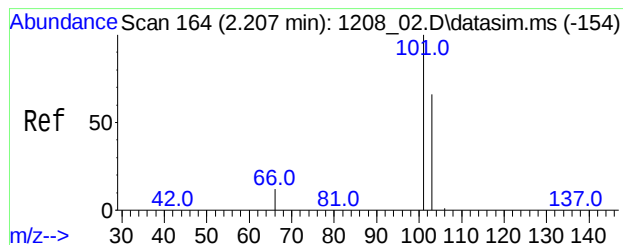
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	26037		
120	28.3	12.4		18.6#
77	81.1	3.0		4.6#



#68
1,2,4-Trimethylbenzene
Conc: 8\$ 0.163 ppbv
RT: 13.373 min Scan# 1819
Delta R.T. 0.013 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

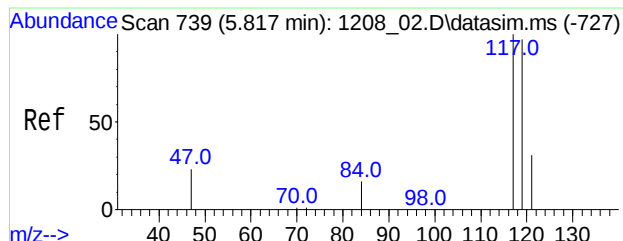
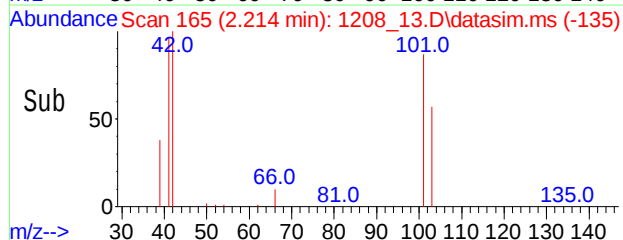
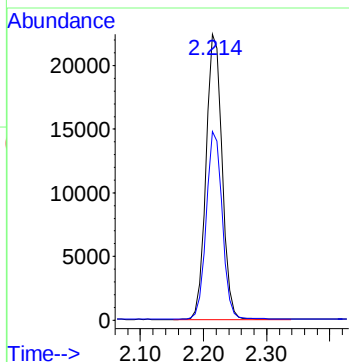
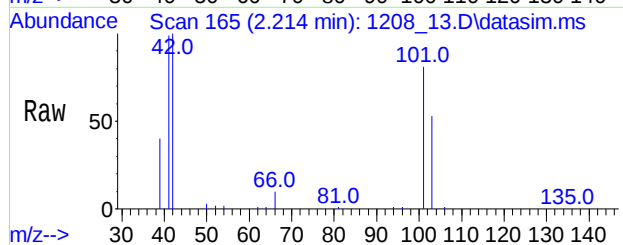
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	18852		
120	45.7	33.8		50.6
77	16.3	5.3		7.9#





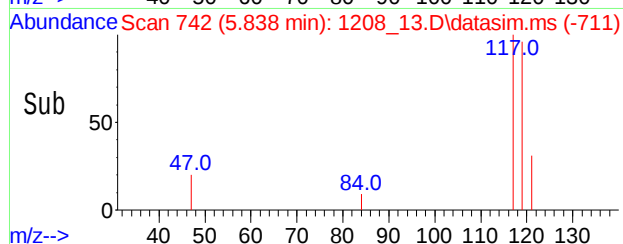
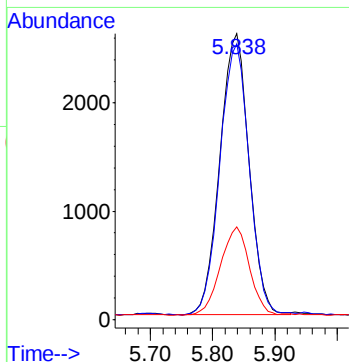
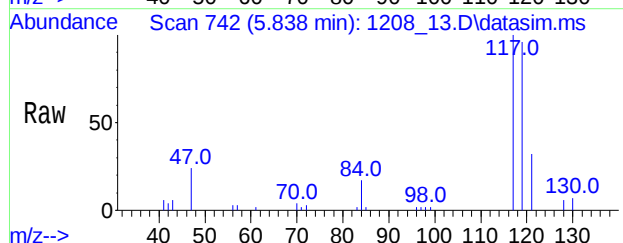
#84
Trichlorofluoromethane(sim)
Conc: 8\$ 0.227 ppbv
RT: 2.214 min Scan# 165
Delta R.T. 0.007 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

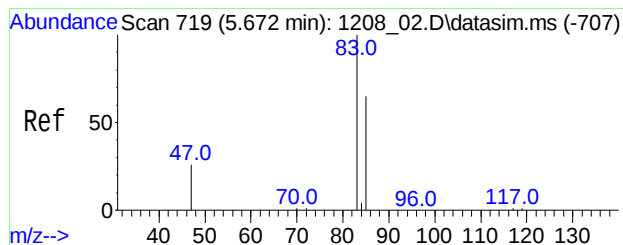
Tgt Ion: 101 Resp: 39452
Ion Ratio Lower Upper
101 100
103 65.3 56.4 84.6



#86
Carbon Tetrachloride(sim)
Conc: 8\$ 0.073 ppbv
RT: 5.838 min Scan# 742
Delta R.T. 0.022 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

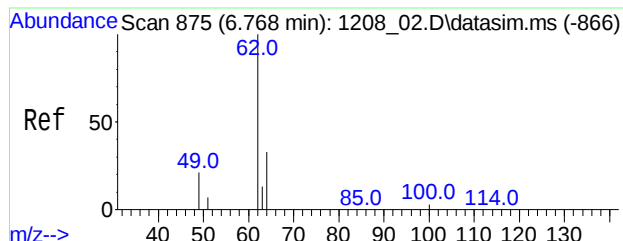
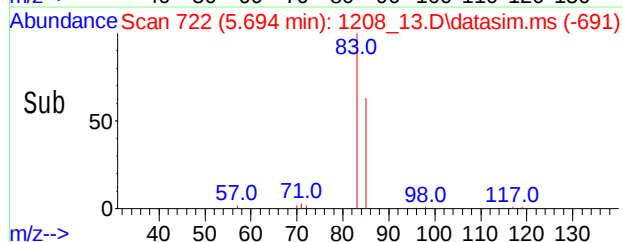
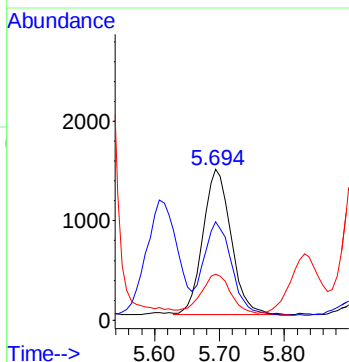
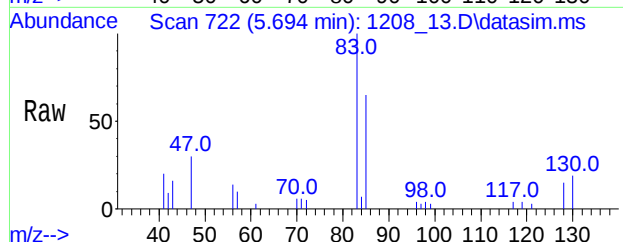
Tgt Ion: 117 Resp: 8328
Ion Ratio Lower Upper
117 100
119 97.3 77.4 116.0
121 31.5 25.4 38.2





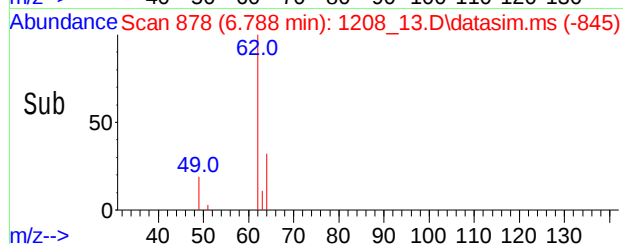
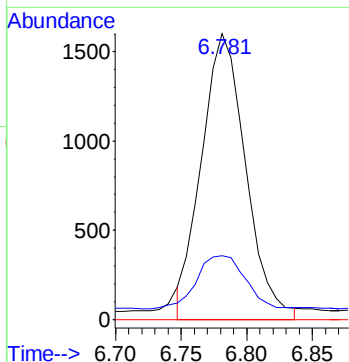
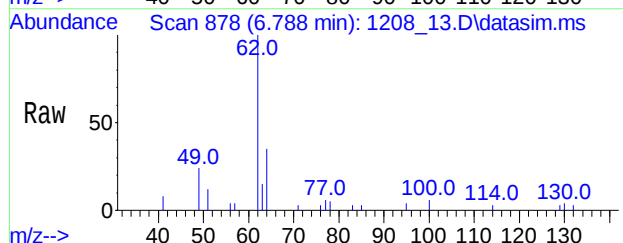
#92
Chloroform(sim)
Conc: 8\$ 0.046 ppbv
RT: 5.694 min Scan# 722
Delta R.T. 0.022 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

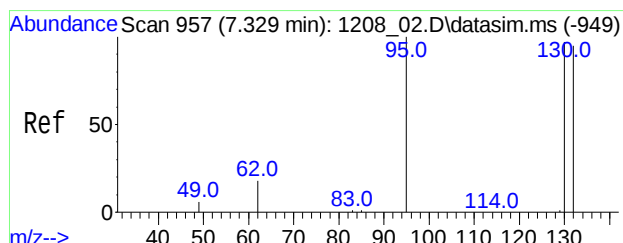
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	4419		
85	63.4	52.7	79.1	
47	27.4	26.0	39.0	



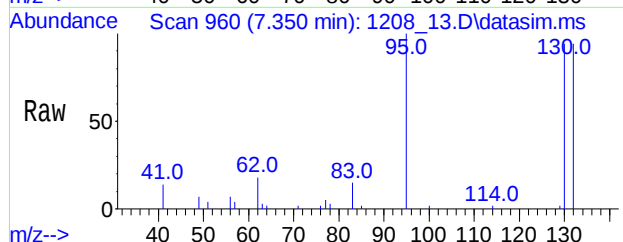
#93
1,2-Dichloroethane(sim)
Conc: 8\$ 0.049 ppbv
RT: 6.785 min Scan# 878
Delta R.T. 0.024 min
Lab File: 1208_13.D
Acq: 9 Dec 2019 11:59 am

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	3186		
49	17.4	0.3	27.1	
98	0.0	0.0	0.0	

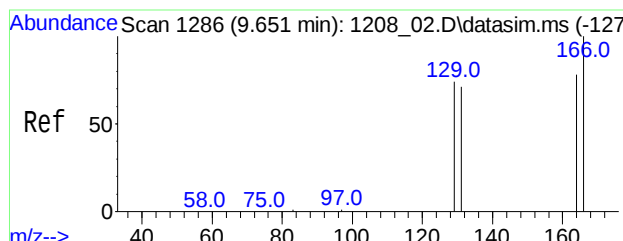
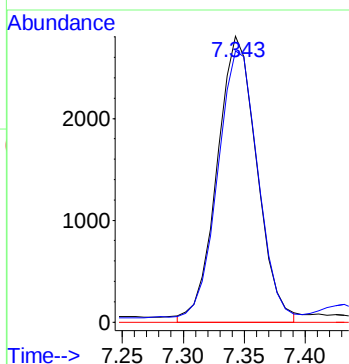
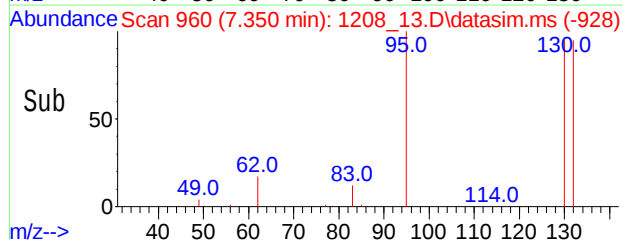




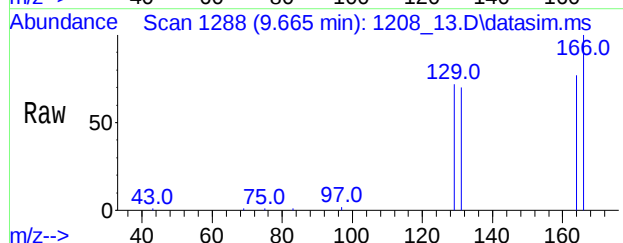
#97
 Trichloroethene(sim)
 Conc: 8\$ 0.113 ppbv
 RT: 7.347 min Scan# 960
 Delta R.T. 0.018 min
 Lab File: 1208_13.D
 Acq: 9 Dec 2019 11:59 am



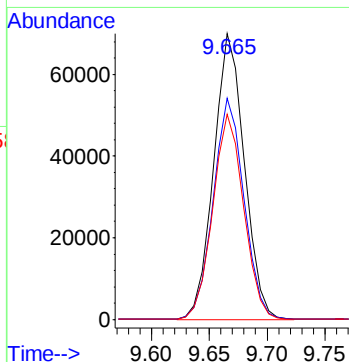
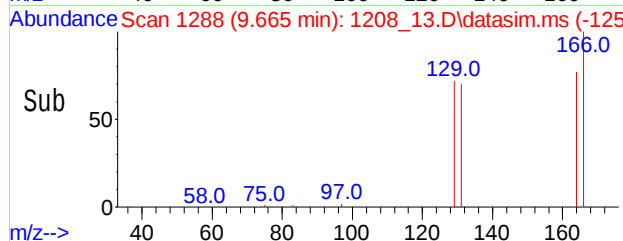
Tgt Ion:130 Resp: 5815
 Ion Ratio Lower Upper
 130 100
 132 95.3 72.0 108.0
 97 72.1 34.1 51.1#

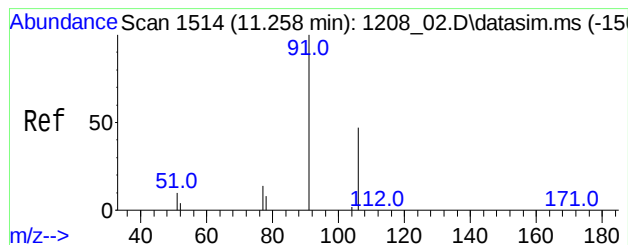


#103
 Tetrachloroethene(sim)
 Conc: 8\$ 1.758 ppbv
 RT: 9.662 min Scan# 1288
 Delta R.T. 0.014 min
 Lab File: 1208_13.D
 Acq: 9 Dec 2019 11:59 am



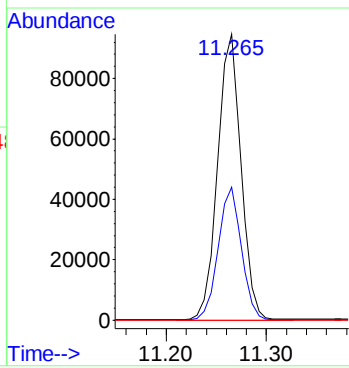
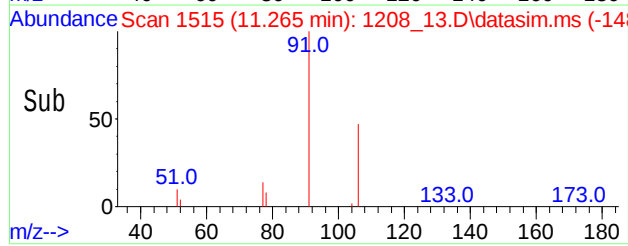
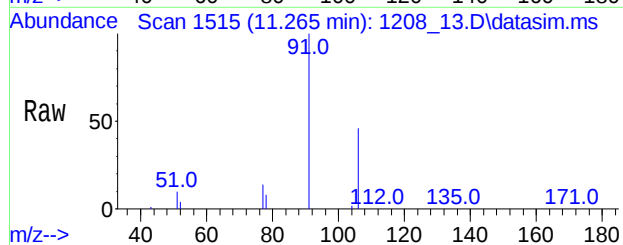
Tgt Ion:166 Resp: 121985
 Ion Ratio Lower Upper
 166 100
 164 78.7 31.9 71.9#
 129 74.0 58.6 98.6





#107
 m,p-Xylene(sim)
 Conc: 8\$ 1.501 ppbv
 RT: 11.262 min Scan# 1515
 Delta R.T. 0.014 min
 Lab File: 1208_13.D
 Acq: 9 Dec 2019 11:59 am

Tgt Ion: 91 Resp: 142895
 Ion Ratio Lower Upper
 91 100
 106 45.2 38.1 46.5
 105 20.4 10.8 16.2#



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCE70607	Lab Sample ID:	CANISTER BLK 1605
Canister:	CANBL	Lab File ID:	0910_08.D
Instrument:	CHEM24	Column:	
Purge Volume	200	(cc)	
Date Received:		Date Analyzed:	09/10/19
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\09SEP\09\
 Data File : 0910_08.D
 Acq On : 10 Sep 2019 9:09 am
 Operator : Keith
 Client ID : CANISTER BLK 1605
 Lab ID : CANISTER BLK 1605
 ALS Vial : 67 Sample Multiplier: 1

Quant Time: Sep 10 11:01:52 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0902.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Sep 09 11:11:15 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.493	130	746156	10.000	ng	-0.03
36) 1,4-Difluorobenzene	7.412	114	1854931	10.000	ng	-0.03
53) Chlorobenzene-d5	10.983	82	935747	10.000	ng	-0.02
80) Bromochloromethane(sim)	5.493	130	746156	10.000	ng	-0.03
94) 1,4-Difluorobenzene(sim)	7.412	114	1854931	10.000	ng	-0.03
104) Chlorobenzene-d5(sim)	10.983	82	935747	10.000	ng	-0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	12.460	95	1348918	9.091	ppbv	-0.02
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.90%

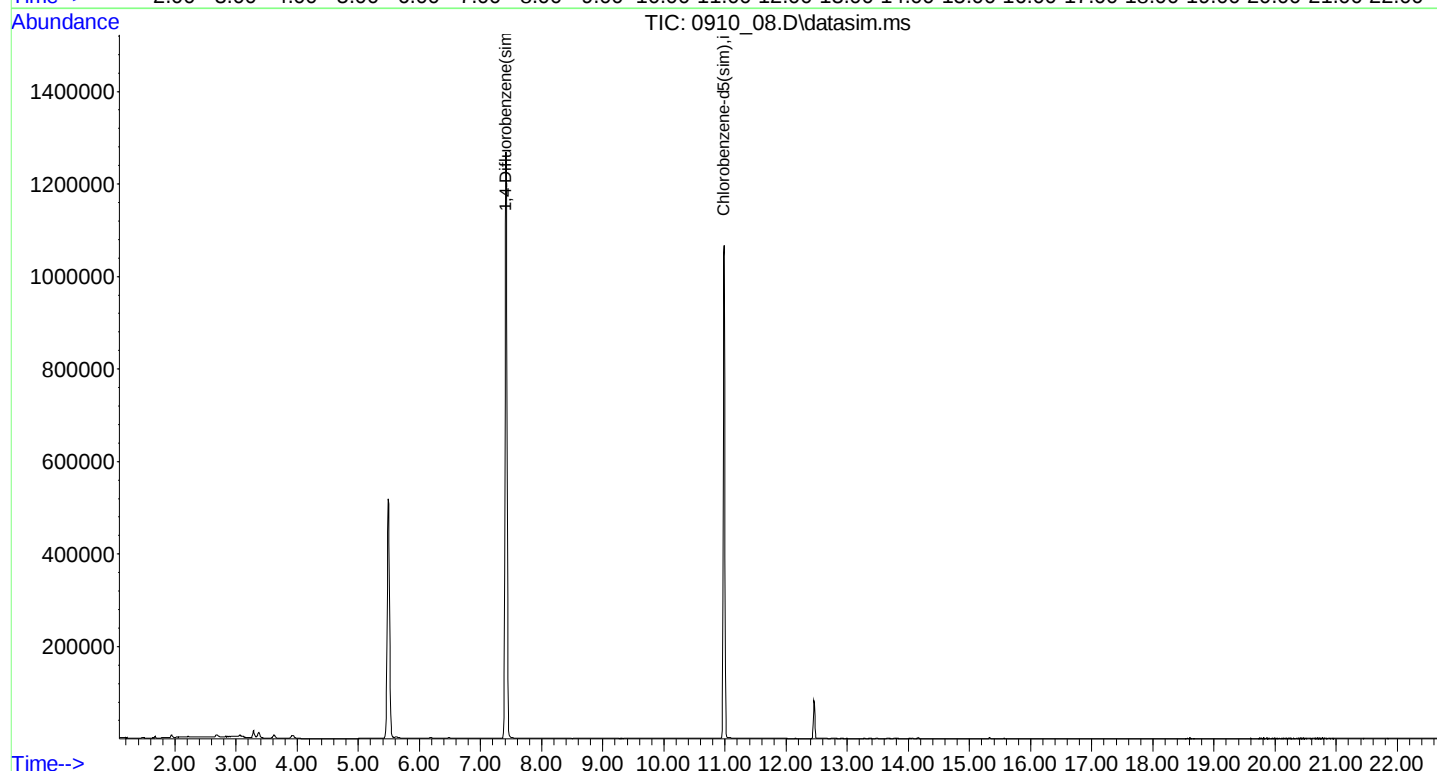
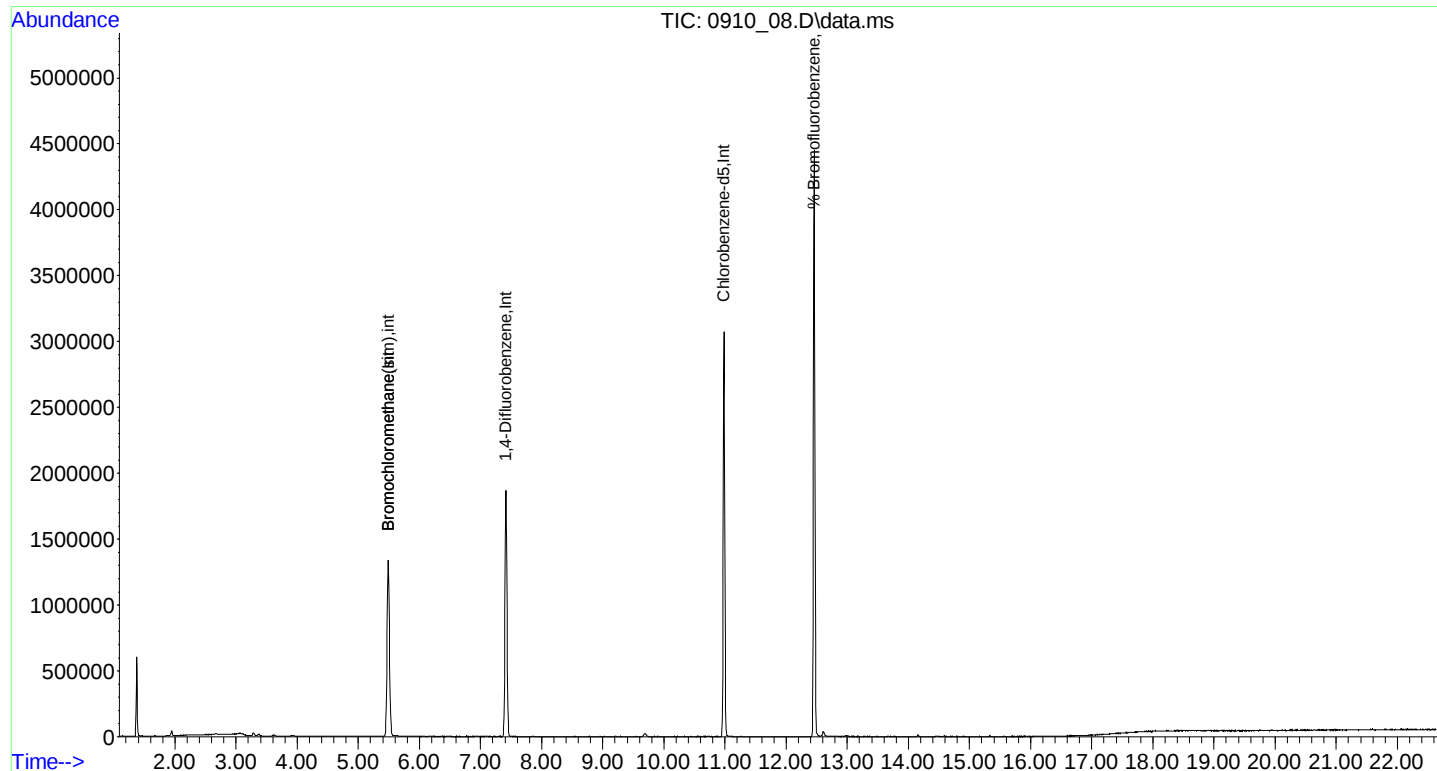
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\09SEP\09\
 Data File : 0910_08.D
 Acq On : 10 Sep 2019 9:09 am
 Operator : Keith
 Client ID : CANISTER BLK 1605
 Lab ID : CANISTER BLK 1605
 ALS Vial : 67 Sample Multiplier: 1

Quant Time: Sep 10 11:01:52 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0902.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Sep 09 11:11:15 2019
 Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1605	Certified:	☒
QC Canister Id:	747	Certified Date:	9/10/2019 9:09:00 AM
Canister Ids:	13645, 21330, 21357, 21365, 221, 23327, 28567, 28617, 455, 486, 494, 747	Certified By:	k
		Certified Computer:	AIRLAB
		Sample Id:	blk 1605

Comment: Initial vacuum of all canisters in this batch is -30 psig.

1 Compounds > than RL

Data File: H:\AIR2019\CHEM24\09SEP\09\0910_08.D\0910_08-24AIR_0902.rr

% Bromofluorobenzene	9.0909	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethane(sim)	0	1,1-Dichloroethene	0
1,1-Dichloroethene(sim)	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene	10	1,4-Difluorobenzene(sim)	10
1,4-Dioxane	0	1,4-Dioxane(sim)	0
2,2,4-trimethylpentane	0	2-Chlorotoluene	0
2-Hexanone(MBK)	0	4-Ethyltoluene	0
4-Isopropyltoluene	0	4-Isopropyltoluene(sim)	0
4-Methyl-2-pentanone(MIBK)	0	Acetone	0.215
Acrylonitrile	0	Allyl Chloride	0
Benzene	0	Benzyl chloride	0
Benzyl chloride(sim)	0	Bromochloromethane	10
Bromochloromethane(sim)	10	Bromodichloromethane	0
Bromodichloromethane(sim)	0	Bromoform	0
Bromoform(sim)	0	Bromomethane	0
Bromomethane(sim)	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5	10
Chlorobenzene-d5(sim)	10	Chloroethane	0
Chloroform	0	Chloroform(sim)	0
Chloromethane	0	Cis-1,2-Dichloroethene	0
Cis-1,2-Dichloroethene(sim)	0	cis-1,3-Dichloropropene	0
cis-1,3-Dichloropropene(sim)	0	Cyclohexane	0
Dibromochloromethane	0	Dibromochloromethane(sim)	0
Dichlorodifluoromethane	0	Ethanol	0.1962
Ethyl acetate	0	Ethylbenzene	0
Heptane	0	Hexachlorobutadiene	0
Hexachlorobutadiene(sim)	0	Hexane	0
Isopropylalcohol	0	Isopropylbenzene	0
m,p-Xylene	0	m,p-Xylene(sim)	0
Methyl Ethyl Ketone	0	Methyl methacrylate	0
Methyl tert-butyl ether(MTBE)	0	Methylene Chloride	0.1826
n-Butylbenzene	0	n-Butylbenzene(sim)	0

Canister Cleaning Certification

Batch Id: 1605**Certified:** ☒**QC Canister Id:** 747**Certified Date:** 9/10/2019 9:09:00 AM**Canister Ids:** 13645, 21330, 21357, 21365, 221, 23327, 28567, 28617, 455, 486, 494, 747**Certified By:** k**Certified Computer:** AIRLAB**Sample Id:** blk 1605**Comment:** Initial vacuum of all canisters in this batch is -30 psig.

1 Compounds > than RL

Data File: H:\AIR2019\CHEM24\09SEP\09\0910_08.D\0910_08-24AIR_0902.rr

n-Propylbenzene	0	n-Propylbenzene(sim)	0
Naphthalene	0	o-Xylene	0
Propylene	0	sec-Butylbenzene	0
sec-Butylbenzene(sim)	0	Styrene	0
tert-butyl alcohol	0	tert-butylbenzene	0
tert-butylbenzene(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCE70607	Lab Sample ID:	CANISTER BLK 1606
Canister:	CANBL	Lab File ID:	0910_09.D
Instrument:	CHEM24	Column:	
Purge Volume	200 (cc)	Date Received:	
		Date Analyzed:	09/10/19
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM24\09SEP\09\
 Data File : 0910_09.D
 Acq On : 10 Sep 2019 9:44 am
 Operator : Keith
 Client ID : CANISTER BLK 1606
 Lab ID : CANISTER BLK 1606
 ALS Vial : 68 Sample Multiplier: 1

Quant Time: Sep 10 11:02:29 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0902.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Sep 10 09:10:12 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.493	130	698359	10.000	ng	-0.03
36) 1,4-Difluorobenzene	7.419	114	1746440	10.000	ng	-0.02
53) Chlorobenzene-d5	10.983	82	867557	10.000	ng	-0.02
80) Bromochloromethane(sim)	5.493	130	698359	10.000	ng	-0.03
94) 1,4-Difluorobenzene(sim)	7.419	114	1746440	10.000	ng	-0.02
104) Chlorobenzene-d5(sim)	10.983	82	867557	10.000	ng	-0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	12.460	95	1233713	8.968	ppbv	-0.02
Spiked Amount	10.000	Range	70 - 130	Recovery	=	89.70%

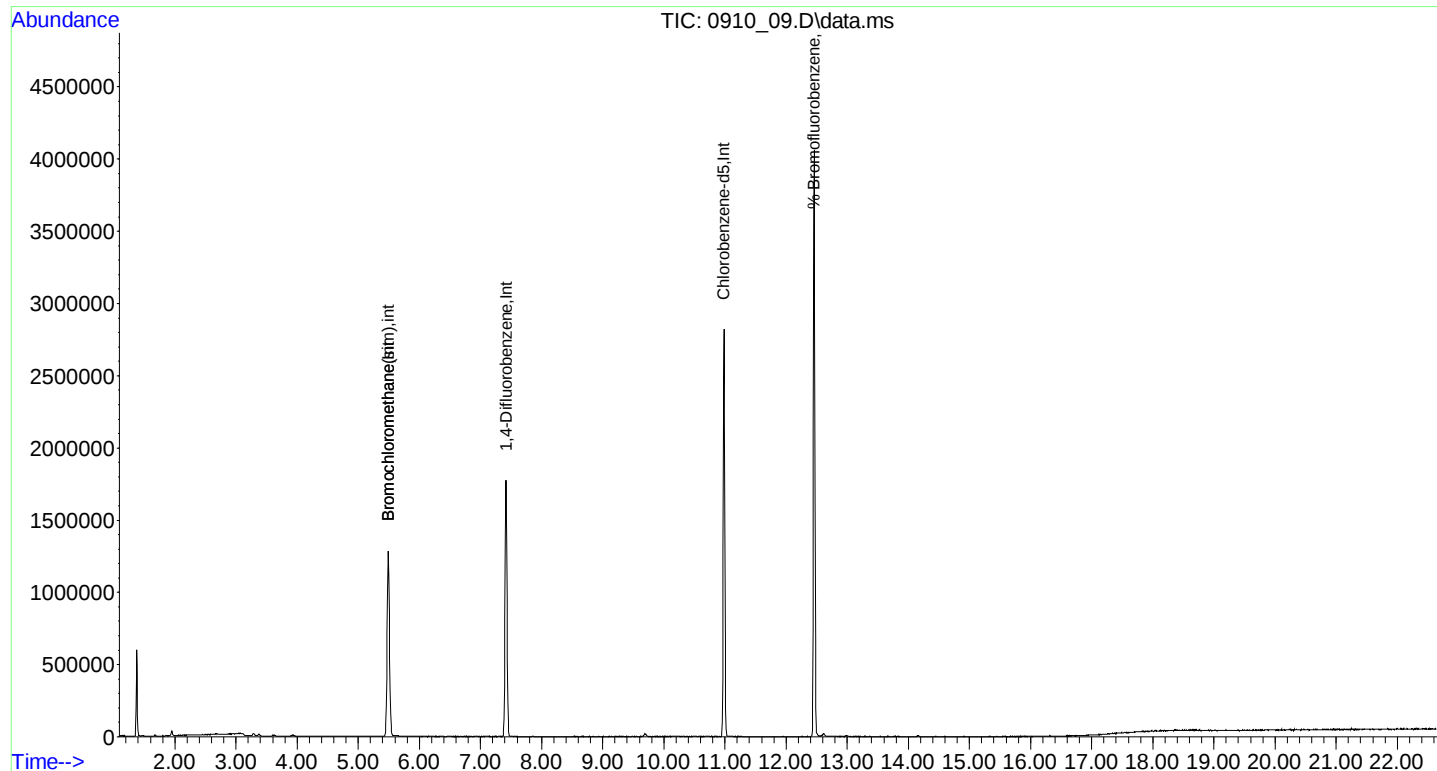
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\09SEP\09\
 Data File : 0910_09.D
 Acq On : 10 Sep 2019 9:44 am
 Operator : Keith
 Client ID : CANISTER BLK 1606
 Lab ID : CANISTER BLK 1606
 ALS Vial : 68 Sample Multiplier: 1

Quant Time: Sep 10 11:02:29 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0902.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Sep 10 09:10:12 2019
 Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1606	Certified:	☒
QC Canister Id:	834	Certified Date:	9/10/2019 9:44:00 AM
Canister Ids:	12859, 13648, 19916, 19931, 218, 28587, 28597, 28622, 471, 484, 493, 834	Certified By:	k
		Certified Computer:	AIRLAB
		Sample Id:	blk 1606

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\09SEP\09\0910_09.D\0910_09-24AIR_0902.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	8.968	1,1,1,2-Tetrachloroethane	0
1,1,1,2-Tetrachloroethane(sim)	0	1,1,1-Trichloroethane	0
1,1,1-Trichloroethane(sim)	0	1,1,2,2-Tetrachloroethane	0
1,1,2,2-Tetrachloroethane(sim)	0	1,1,2-Trichloroethane	0
1,1,2-Trichloroethane(sim)	0	1,1-Dichloroethane	0
1,1-Dichloroethane(sim)	0	1,1-Dichloroethene	0
1,1-Dichloroethene(sim)	0	1,2,4-Trichlorobenzene	0
1,2,4-Trichlorobenzene(sim)	0	1,2,4-Trimethylbenzene	0
1,2-Dibromoethane(EDB)	0	1,2-Dibromoethane(EDB)(sim)	0
1,2-Dichlorobenzene	0	1,2-Dichlorobenzene(sim)	0
1,2-Dichloroethane	0	1,2-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	0
1,2-Dichlorotetrafluoroethane	0	1,2-Dichlorotetrafluoroethane(sim)	0
1,3,5-Trimethylbenzene	0	1,3-Butadiene	0
1,3-Dichlorobenzene	0	1,3-Dichlorobenzene(sim)	0
1,4-Dichlorobenzene	0	1,4-Dichlorobenzene(sim)	0
1,4-Difluorobenzene	10	1,4-Difluorobenzene(sim)	10
1,4-Dioxane	0	1,4-Dioxane(sim)	0
2,2,4-trimethylpentane	0	2-Chlorotoluene	0
2-Hexanone(MBK)	0	4-Ethyltoluene	0
4-Isopropyltoluene	0	4-Isopropyltoluene(sim)	0
4-Methyl-2-pentanone(MIBK)	0	Acetone	0.1934
Acrylonitrile	0	Allyl Chloride	0
Benzene	0	Benzyl chloride	0
Benzyl chloride(sim)	0	Bromochloromethane	10
Bromochloromethane(sim)	10	Bromodichloromethane	0
Bromodichloromethane(sim)	0	Bromoform	0
Bromoform(sim)	0	Bromomethane	0
Bromomethane(sim)	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5	10
Chlorobenzene-d5(sim)	10	Chloroethane	0
Chloroform	0	Chloroform(sim)	0
Chloromethane	0	Cis-1,2-Dichloroethene	0
Cis-1,2-Dichloroethene(sim)	0	cis-1,3-Dichloropropene	0
cis-1,3-Dichloropropene(sim)	0	Cyclohexane	0
Dibromochloromethane	0	Dibromochloromethane(sim)	0
Dichlorodifluoromethane	0	Ethanol	0
Ethyl acetate	0	Ethylbenzene	0
Heptane	0	Hexachlorobutadiene	0
Hexachlorobutadiene(sim)	0	Hexane	0
Isopropylalcohol	0	Isopropylbenzene	0
m,p-Xylene	0	m,p-Xylene(sim)	0
Methyl Ethyl Ketone	0	Methyl methacrylate	0
Methyl tert-butyl ether(MTBE)	0	Methylene Chloride	0.158
n-Butylbenzene	0	n-Butylbenzene(sim)	0

Canister Cleaning Certification

Batch Id: 1606

Certified: ☒

QC Canister Id: 834

Certified Date: 9/10/2019 9:44:00 AM

Canister Ids: 12859, 13648, 19916, 19931, 218, 28587, 28597, 28622, 471, 484, 493, 834

Certified By: k

Certified Computer: AIRLAB

Sample Id: blk 1606

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\09SEP\09\0910_09.D\0910_09-24AIR_0902.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
n-Propylbenzene	0	n-Propylbenzene(sim)	0
Naphthalene	0	o-Xylene	0
Propylene	0	sec-Butylbenzene	0
sec-Butylbenzene(sim)	0	Styrene	0
tert-butyl alcohol	0	tert-butylbenzene	0
tert-butylbenzene(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCE70607	Lab Sample ID:	CANISTER BLK 1617
Canister:	CANBL	Lab File ID:	0925_24.D
Instrument:	CHEM20	Column:	
Purge Volume	200 (cc)	Date Received:	
		Date Analyzed:	09/26/19
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM20\09SEP\24\
 Data File : 0925_24.D
 Acq On : 26 Sep 2019 07:38 pm
 Operator : CORTEX\ms
 Client ID : CANISTER BLK 1617
 Lab ID : CANISTER BLK 1617
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 09:03:28 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0925.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Sep 30 09:01:19 2019
 Response via : Initial Calibration

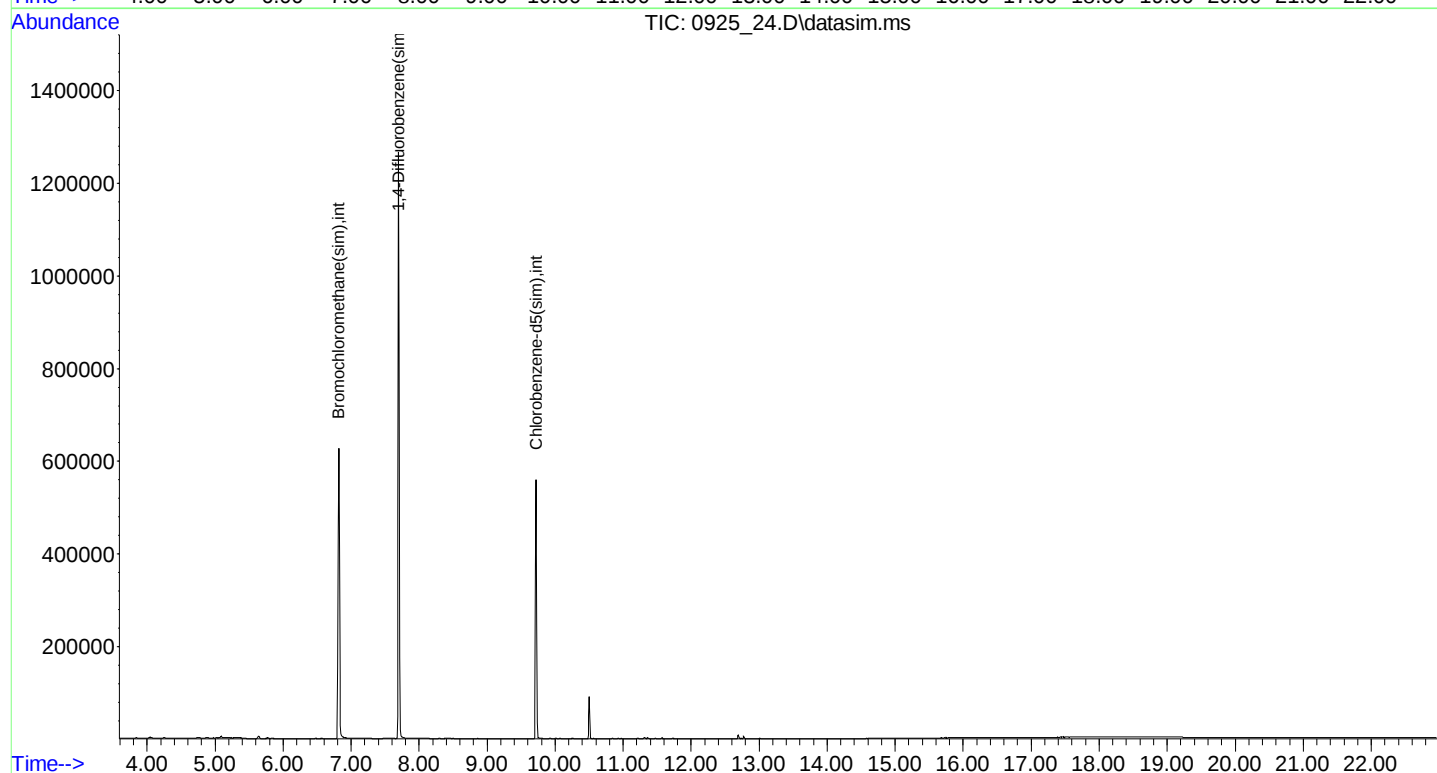
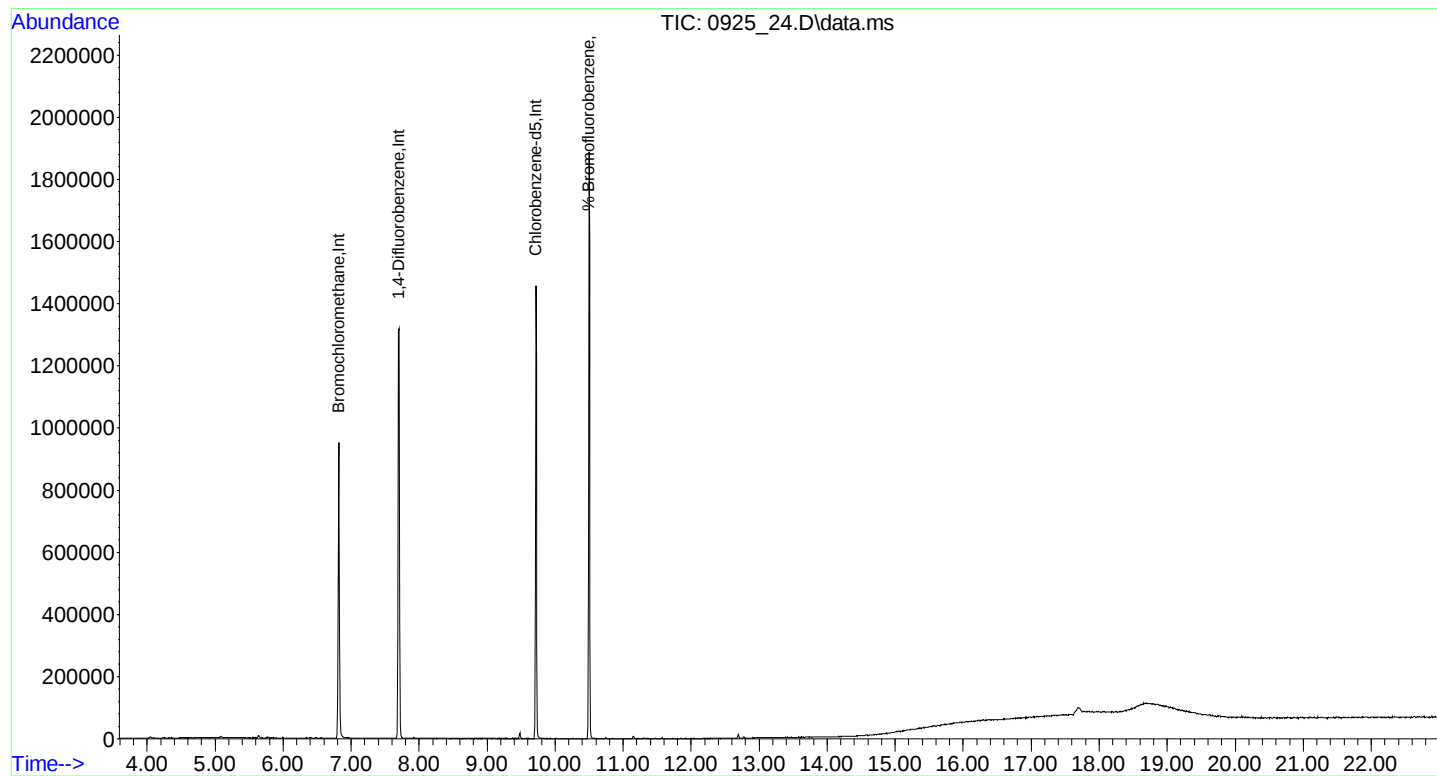
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.816	130	280899	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.704	114	815321	10.000	ng	0.00
53) Chlorobenzene-d5	9.716	82	267212	10.000	ng	0.00
80) Bromochloromethane(sim)	6.818	130	315639	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.698	114	961510	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.719	82	300333	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.497	95	384435	10.156	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.60%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\09SEP\24\
Data File : 0925_24.D
Acq On : 26 Sep 2019 07:38 pm
Operator : CORTEX\ms
Client ID : CANISTER BLK 1617
Lab ID : CANISTER BLK 1617
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 09:03:28 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0925.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Sep 30 09:01:19 2019
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1617	Certified:	☒
QC Canister Id:	848	Certified Date:	9/26/2019 7:38:00 PM
Canister Ids:	12855, 13642, 17159, 19816, 19930, 216, 23318, 28556, 28586, 28595, 474, 848	Certified By:	airlab
		Certified Computer:	CHEM13XP0609
		Sample Id:	BLK 1617

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM20\09SEP\24\0925_24.D\0925_24-20_AIR_0925.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.1559	1,1,1,2-Tetrachloroethane	0
1,1,1-Trichloroethane	0	1,1,1-Trichloroethane(sim)	0
1,1,2,2-Tetrachloroethane	0	1,1,2,2-Tetrachloroethane(sim)	0
1,1,2-Trichloroethane	0	1,1,2-Trichloroethane(sim)	0
1,1-Dichloroethane	0	1,1-Dichloroethane(sim)	0
1,1-Dichloroethene	0	1,1-Dichloroethene(sim)	0
1,2,4-Trichlorobenzene	0	1,2,4-Trichlorobenzene(sim)	0
1,2,4-Trimethylbenzene	0	1,2-Dibromoethane(EDB)	0
1,2-Dibromoethane(EDB)(sim)	0	1,2-Dichlorobenzene	0
1,2-Dichlorobenzene(sim)	0	1,2-Dichloroethane	0
1,2-Dichloroethane(sim)	0	1,2-dichloropropane	0
1,2-dichloropropane(sim)	0	1,2-Dichlorotetrafluoroethane	0
1,2-Dichlorotetrafluoroethane(sim)	0	1,3,5-Trimethylbenzene	0
1,3-Butadiene	0	1,3-Dichlorobenzene	0
1,3-Dichlorobenzene(sim)	0	1,4-Dichlorobenzene	0
1,4-Dichlorobenzene(sim)	0	1,4-Difluorobenzene	10
1,4-Difluorobenzene(sim)	10	1,4-Dioxane	0
1,4-Dioxane(sim)	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane	10	Bromochloromethane(sim)	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Bromomethane(sim)	0
Carbon Disulfide	0	Carbon Tetrachloride	0
Carbon Tetrachloride(sim)	0	Chlorobenzene	0
Chlorobenzene-d5	10	Chlorobenzene-d5(sim)	10
Chloroethane	0	Chloroform	0
Chloroform(sim)	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	Cis-1,2-Dichloroethene(sim)	0
cis-1,3-Dichloropropene	0	cis-1,3-Dichloropropene(sim)	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0

Canister Cleaning Certification

Batch Id: 1617

Certified: ☒

QC Canister Id: 848

Certified Date: 9/26/2019 7:38:00 PM

Canister Ids: 12855, 13642, 17159, 19816, 19930, 216, 23318, 28556, 28586, 28595, 474, 848

Certified By: airlab

Certified Computer: CHEM13XP0609

Sample Id: BLK 1617

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM20\09SEP\24\0925_24.D\0925_24-20_AIR_0925.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
n-Propylbenzene(sim)	0	Naphthalene	0
Naphthalene(sim)	0	o-Xylene	0
Propylene	0	sec-Butylbenzene	0
sec-Butylbenzene(sim)	0	Styrene	0
tert-butyl alcohol	0	tert-butylbenzene	0
tert-butylbenzene(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCE70607	Lab Sample ID:	CANISTER BLK 1618
Canister:	CANBL	Lab File ID:	0927_20.D
Instrument:	CHEM20	Column:	
Purge Volume	200 (cc)	Date Received:	
		Date Analyzed:	09/27/19
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2019\CHEM20\09SEP\24\
 Data File : 0927_20.D
 Acq On : 27 Sep 2019 05:22 pm
 Operator : CORTEX\ms
 Client ID : CANISTER BLK 1618
 Lab ID : CANISTER BLK 1618
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 09:06:59 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0925.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Sep 30 09:01:19 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.816	130	258714	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.695	114	793218	10.000	ng	0.00
53) Chlorobenzene-d5	9.716	82	273127	10.000	ng	0.00
80) Bromochloromethane(sim)	6.819	130	294145	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.698	114	926621	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.719	82	309085	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	10.497	95	392506	10.145	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.40%

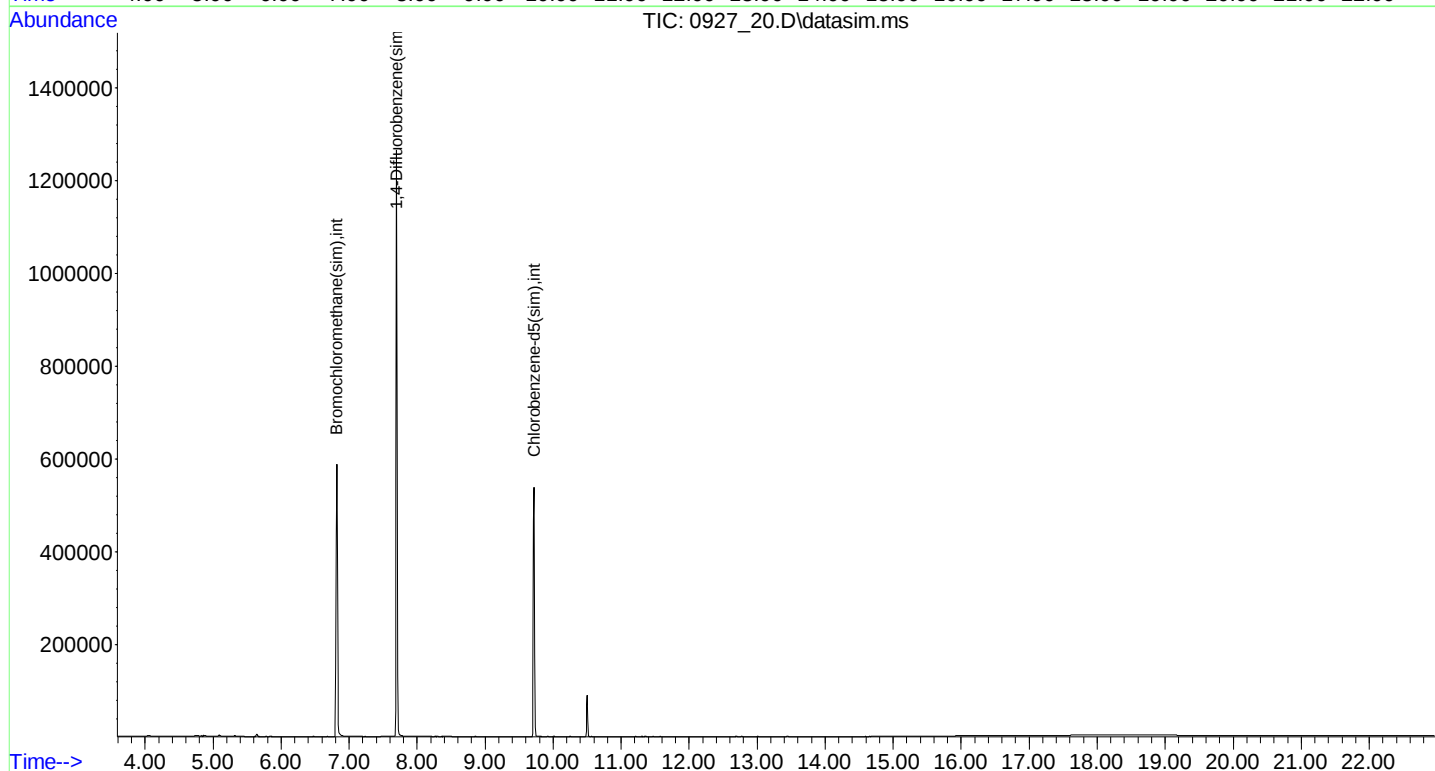
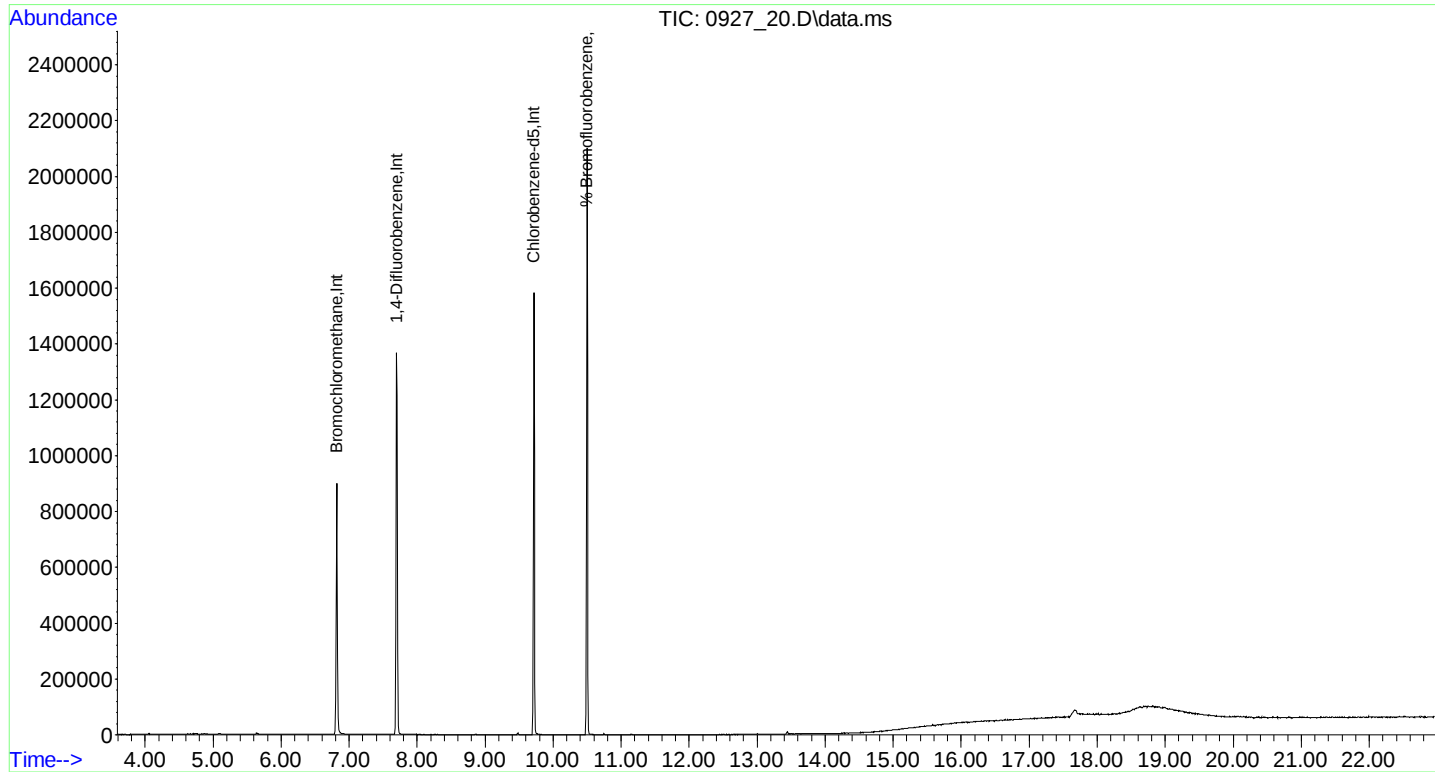
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2019\CHEM20\09SEP\24\
Data File : 0927_20.D
Acq On : 27 Sep 2019 05:22 pm
Operator : CORTEX\ms
Client ID : CANISTER BLK 1618
Lab ID : CANISTER BLK 1618
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 30 09:06:59 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0925.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Sep 30 09:01:19 2019
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1618	Certified:	☒
QC Canister Id:	826	Certified Date:	9/27/2019 5:22:00 PM
Canister Ids:	11290, 19632, 21356, 21359, 230, 28553, 28558, 28593, 456, 457, 464, 826	Certified By:	airlab
		Certified Computer:	CHEM13XP0609
		Sample Id:	blk 1618

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM20\09SEP\24\0927_20.D\0927_20-20_AIR_0925.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.1446	1,1,1,2-Tetrachloroethane	0
1,1,1-Trichloroethane	0	1,1,1-Trichloroethane(sim)	0
1,1,2,2-Tetrachloroethane	0	1,1,2,2-Tetrachloroethane(sim)	0
1,1,2-Trichloroethane	0	1,1,2-Trichloroethane(sim)	0
1,1-Dichloroethane	0	1,1-Dichloroethane(sim)	0
1,1-Dichloroethene	0	1,1-Dichloroethene(sim)	0
1,2,4-Trichlorobenzene	0	1,2,4-Trichlorobenzene(sim)	0
1,2,4-Trimethylbenzene	0	1,2-Dibromoethane(EDB)	0
1,2-Dibromoethane(EDB)(sim)	0	1,2-Dichlorobenzene	0
1,2-Dichlorobenzene(sim)	0	1,2-Dichloroethane	0
1,2-Dichloroethane(sim)	0	1,2-dichloropropane	0
1,2-dichloropropane(sim)	0	1,2-Dichlorotetrafluoroethane	0
1,2-Dichlorotetrafluoroethane(sim)	0	1,3,5-Trimethylbenzene	0
1,3-Butadiene	0	1,3-Dichlorobenzene	0
1,3-Dichlorobenzene(sim)	0	1,4-Dichlorobenzene	0
1,4-Dichlorobenzene(sim)	0	1,4-Difluorobenzene	10
1,4-Difluorobenzene(sim)	10	1,4-Dioxane	0
1,4-Dioxane(sim)	0	2,2,4-trimethylpentane	0
2-Chlorotoluene	0	2-Hexanone(MBK)	0
4-Ethyltoluene	0	4-Isopropyltoluene	0
4-Isopropyltoluene(sim)	0	4-Methyl-2-pentanone(MIBK)	0
Acetone	0	Acrylonitrile	0
Allyl Chloride	0	Benzene	0
Benzyl chloride	0	Benzyl chloride(sim)	0
Bromochloromethane	10	Bromochloromethane(sim)	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Bromomethane(sim)	0
Carbon Disulfide	0	Carbon Tetrachloride	0
Carbon Tetrachloride(sim)	0	Chlorobenzene	0
Chlorobenzene-d5	10	Chlorobenzene-d5(sim)	10
Chloroethane	0	Chloroform	0
Chloroform(sim)	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	Cis-1,2-Dichloroethene(sim)	0
cis-1,3-Dichloropropene	0	cis-1,3-Dichloropropene(sim)	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0
Hexane	0	Isopropylalcohol	0
Isopropylbenzene	0	m,p-Xylene	0
m,p-Xylene(sim)	0	Methyl Ethyl Ketone	0
Methyl methacrylate	0	Methyl tert-butyl ether(MTBE)	0
Methylene Chloride	0	n-Butylbenzene	0
n-Butylbenzene(sim)	0	n-Propylbenzene	0

Canister Cleaning Certification

Batch Id: 1618

Certified: ☒

QC Canister Id: 826

Certified Date: 9/27/2019 5:22:00 PM

Canister Ids: 11290, 19632, 21356, 21359, 230, 28553, 28558, 28593, 456, 457, 464, 826

Certified By: airlab

Certified Computer: CHEM13XP0609

Sample Id: blk 1618

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM20\09SEP\24\0927_20.D\0927_20-20_AIR_0925.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
n-Propylbenzene(sim)	0	Naphthalene	0
Naphthalene(sim)	0	o-Xylene	0
Propylene	0	sec-Butylbenzene	0
sec-Butylbenzene(sim)	0	Styrene	0
tert-butyl alcohol	0	tert-butylbenzene	0
tert-butylbenzene(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	0	trans-1,3-Dichloropropene	0
Trichloroethene	0	Trichloroethene(sim)	0
Trichlorofluoromethane	0	Trichlorofluoromethane(sim)	0
Trichlorotrifluoroethane	0	Trichlorotrifluoroethane(sim)	0
Vinyl Bromide	0	Vinyl Chloride	0
Vinyl Chloride(sim)	0		

Injection Log

Data Directory: H:\AIR2019\CHEM20\09SEP\24\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0927_24.D	XXXXXXXXXX		N/A
2)	0	0922_03.D	XXXXXXXXXX		N/A
3)	1	0922_01.D	XXXXXXXXXX		09/24/19 18:22
4)	1	0922_02.D	XXXXXXXXXX		09/24/19 18:56
5)	1	0924_01.D	XXXXXXXXXX		09/24/19 21:58
6)	1	0924_02.D	XXXXXXXXXX		09/24/19 22:31
7)	1	0924_03.D	XXXXXXXXXX		09/24/19 23:04
8)	1	0924_04.D	XXXXXXXXXX		09/24/19 23:37
9)	1	0924_05.D	XXXXXXXXXX		09/25/19 0:11
10)	1	0924_06.D	XXXXXXXXXX		09/25/19 0:46
11)	1	0924_07.D	XXXXXXXXXX		09/25/19 1:20
12)	1	0924_08.D	XXXXXXXXXX		09/25/19 1:55
13)	1	0924_09.D	XXXXXXXXXX		09/25/19 2:31
14)	1	0924_10.D	XXXXXXXXXX		09/25/19 3:07
15)	1	0924_11.D	XXXXXXXXXX		09/25/19 3:42
16)	1	0924_12.D	XXXXXXXXXX		09/25/19 4:19
17)	1	0924_13.D	XXXXXXXXXX		09/25/19 4:57
18)	1	0924_14.D	XXXXXXXXXX		09/25/19 5:30
19)	1	0924_15.D	XXXXXXXXXX		09/25/19 6:05
20)	1	0924_16.D	XXXXXXXXXX		09/25/19 6:40
21)	1	0924_17.D	XXXXXXXXXX		09/25/19 7:15
22)	1	0924_18.D	XXXXXXXXXX		09/25/19 7:51
23)	1	0924_19.D	XXXXXXXXXX		09/25/19 8:24
24)	1	0924_20.D	XXXXXXXXXX		09/25/19 8:57
25)	1	0924_21.D	XXXXXXXXXX		09/25/19 12:21
26)	1	0924_22.D	XXXXXXXXXX		09/25/19 12:58
27)	1	0924_23.D	XXXXXXXXXX		09/25/19 13:35
28)	1	0924_24.D	XXXXXXXXXX		09/25/19 14:11
29)	1	0924_25.D	XXXXXXXXXX		09/25/19 14:46
30)	1	0924_26.D	XXXXXXXXXX		09/25/19 15:21
31)	1	0924_27.D	XXXXXXXXXX		09/25/19 15:57
32)	1	0924_28.D	XXXXXXXXXX		09/25/19 16:32
33)	1	0924_29.D	XXXXXXXXXX		09/25/19 17:08
34)	1	0924_30.D	XXXXXXXXXX		09/25/19 17:45
35)	1	0924_31.D	XXXXXXXXXX		09/25/19 18:23
36)	1	0924_32.D	XXXXXXXXXX		09/25/19 19:00
37)	1	0924_33.D	XXXXXXXXXX		09/25/19 19:38
38)	1	0924_34.D	XXXXXXXXXX		09/25/19 20:14
39)	1	0924_35.D	XXXXXXXXXX		09/25/19 20:49
40)	1	0924_36.D	XXXXXXXXXX		09/25/19 21:27
41)	1	0924_37.D	XXXXXXXXXX		09/25/19 22:01
42)	1	0924_38.D	XXXXXXXXXX		09/25/19 22:38
43)	1	0924_39.D	XXXXXXXXXX		09/25/19 23:15
44)	1	0924_40.D	XXXXXXXXXX		09/25/19 23:53
45)	1	0924_41.D	XXXXXXXXXX		09/26/19 0:29
46)	1	0924_42.D	XXXXXXXXXX		09/26/19 1:04
47)	1	0924_43.D	XXXXXXXXXX		09/26/19 1:39
48)	1	0924_44.D	XXXXXXXXXX		09/26/19 2:16
49)	1	0924_45.D	XXXXXXXXXX		09/26/19 2:54
50)	1	0924_46.D	XXXXXXXXXX		09/26/19 3:32
51)	1	0924_47.D	XXXXXXXXXX		09/26/19 4:07
52)	1	0924_48.D	XXXXXXXXXX		09/26/19 4:40
53)	1	0925_01.D	XXXXXXXXXX		09/26/19 5:15
54)	1	0925_02.D	XXXXXXXXXX		09/26/19 5:49
55)	1	0925_03.D	XXXXXXXXXX		09/26/19 6:26
56)	1	0925_04.D	XXXXXXXXXX		09/26/19 6:59
57)	1	0925_05.D	XXXXXXXXXX		09/26/19 7:31
58)	1	0925_06.D	XXXXXXXXXX		09/26/19 8:04
59)	1	0925_07.D	XXXXXXXXXX		09/26/19 9:27
60)	1	0925_08.D	XXXXXXXXXX		09/26/19 10:04
61)	1	0925_09.D	XXXXXXXXXX		09/26/19 10:49
62)	1	0925_10.D	XXXXXXXXXX		09/26/19 11:23
63)	1	0925_11.D	XXXXXXXXXX		09/26/19 11:58
64)	1	0925_12.D	XXXXXXXXXX		09/26/19 12:32
65)	1	0925_13.D	XXXXXXXXXX		09/26/19 13:07
66)	1	0925_14.D	XXXXXXXXXX		09/26/19 13:44
67)	1	0925_15.D	XXXXXXXXXX		09/26/19 14:20
68)	1	0925_16.D	XXXXXXXXXX		09/26/19 14:55

69)	1	0925_17.D	XXXXXXXXXX		09/26/19	15:31
70)	1	0925_18.D	XXXXXXXXXX		09/26/19	16:10
71)	1	0925_19.D	XXXXXXXXXX		09/26/19	16:46
72)	1	0925_20.D	XXXXXXXXXX		09/26/19	17:19
73)	1	0925_21.D	XXXXXXXXXX		09/26/19	17:52
74)	1	0925_22.D	XXXXXXXXXX		09/26/19	18:24
75)	1	0925_23.D	XXXXXXXXXX		09/26/19	19:01
76)	1	0925_24.D	CANISTER BLK 1617	CANISTER BLK 1617	09/26/19	19:38
77)	1	0925_25.D	XXXXXXXXXX		09/26/19	20:27
78)	1	0925_26.D	XXXXXXXXXX		09/26/19	21:06
79)	1	0925_27.D	XXXXXXXXXX		09/26/19	21:43
80)	1	0925_28.D	XXXXXXXXXX		09/26/19	22:21
81)	1	0925_29.D	XXXXXXXXXX		09/26/19	22:57
82)	1	0925_30.D	XXXXXXXXXX		09/26/19	23:32
83)	1	0925_31.D	XXXXXXXXXX		09/27/19	0:07
84)	1	0925_32.D	XXXXXXXXXX		09/27/19	0:42
85)	1	0925_33.D	XXXXXXXXXX		09/27/19	1:17
86)	1	0925_34.D	XXXXXXXXXX		09/27/19	1:52
87)	1	0925_35.D	XXXXXXXXXX		09/27/19	2:26
88)	1	0925_36.D	XXXXXXXXXX		09/27/19	3:02
89)	1	0925_37.D	XXXXXXXXXX		09/27/19	3:37
90)	1	0927_01.D	XXXXXXXXXX		09/27/19	4:10
91)	1	0927_02.D	XXXXXXXXXX		09/27/19	4:44
92)	1	0927_03.D	XXXXXXXXXX		09/27/19	5:20
93)	1	0927_04.D	XXXXXXXXXX		09/27/19	5:56
94)	1	0927_05.D	XXXXXXXXXX		09/27/19	6:28
95)	1	0927_06.D	XXXXXXXXXX		09/27/19	7:01
96)	1	0927_07.D	XXXXXXXXXX		09/27/19	7:37
97)	1	0927_08.D	XXXXXXXXXX		09/27/19	8:12
98)	1	0927_09.D	XXXXXXXXXX		09/27/19	8:47
99)	1	0927_10.D	XXXXXXXXXX		09/27/19	9:22
100)	1	0927_11.D	XXXXXXXXXX		09/27/19	9:58
101)	1	0927_12.D	XXXXXXXXXX		09/27/19	10:33
102)	1	0927_13.D	XXXXXXXXXX		09/27/19	12:59
103)	1	0927_14.D	XXXXXXXXXX		09/27/19	13:37
104)	1	0927_15.D	XXXXXXXXXX		09/27/19	14:15
105)	1	0927_16.D	XXXXXXXXXX		09/27/19	14:53
106)	1	0927_17.D	XXXXXXXXXX		09/27/19	15:31
107)	1	0927_18.D	XXXXXXXXXX		09/27/19	16:10
108)	1	0927_19.D	XXXXXXXXXX		09/27/19	16:45
109)	1	0927_20.D	CANISTER BLK 1618	CANISTER BLK 1618	09/27/19	17:22
110)	1	0927_21.D	XXXXXXXXXX		09/27/19	17:59
111)	1	0927_22.D	XXXXXXXXXX		09/27/19	18:33
112)	1	0927_23.D	XXXXXXXXXX		09/27/19	19:08

Injection Log

Data Directory: H:\AIR2019\CHEM20\12DEC\04\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	1204_34.D	XXXXXXXXXX		N/A
2)	1	1204_01.D	XXXXXXXXXX		12/03/19 19:18
3)	1	1204_02.D	BFB TUNE	0/0	12/03/19 19:53
4)	1	1204_03.D	ICAL 0.02	0.02	12/03/19 20:28
5)	1	1204_04.D	ICAL 0.035	0.035	12/03/19 21:04
6)	1	1204_05.D	ICAL 0.05	0.05	12/03/19 21:40
7)	1	1204_06.D	ICAL 0.1	0.10	12/03/19 22:16
8)	1	1204_07.D	ICAL 0.5	0.5	12/03/19 22:54
9)	1	1204_08.D	ICAL 2.5	2.5	12/03/19 23:33
10)	1	1204_09.D	ICAL 5	5.0	12/04/19 0:09
11)	1	1204_10.D	ICAL 25	25	12/04/19 0:47
12)	1	1204_11.D	ICAL 40	40	12/04/19 1:26
13)	1	1204_12.D	XXXXXXXXXX		12/04/19 2:01
14)	1	1204_13.D	BFB TUNE	1ppb	12/04/19 2:38
15)	1	1204_14.D	ICAL 0.2	0.2	12/04/19 3:14
16)	1	1204_15.D	ICAL 10	10ppb	12/04/19 3:51
17)	1	1204_16.D	CE70607 LCS	CE70607 LCS	12/04/19 4:29
18)	1	1204_17.D	XXXXXXXXXX		12/04/19 5:04
19)	1	1204_18.D	CE70607 BLANK	CE70607 BLANK	12/04/19 5:38
20)	1	1204_19.D	IA-1	CE70607	12/04/19 8:58
21)	1	1204_20.D	IA-1 DUP	CE70607 DUP	12/04/19 9:38
22)	1	1204_21.D	IA-2	CE70608	12/04/19 10:24
23)	1	1204_22.D	CE70607 LCSD	CE70607 LCSD	12/04/19 11:38
24)	1	1204_23.D	XXXXXXXXXX		12/04/19 12:16
25)	1	1204_24.D	IA-3	CE70609	12/04/19 12:56
26)	1	1204_25.D	IA-4	CE70610	12/04/19 15:34
27)	1	1204_26.D	IA-5	CE70611	12/04/19 16:14
28)	1	1204_27.D	XXXXXXXXXX		12/04/19 17:10
29)	1	1204_28.D	IA-7	CE70613	12/04/19 17:49
30)	1	1204_29.D	AMBIENT AIR	CE70614	12/04/19 18:29
31)	1	1204_30.D	FILED BLANK	CE70615	12/04/19 19:09
32)	1	1204_31.D	DUPLICATE	CE70616	12/04/19 19:50
33)	1	1204_32.D	XXXXXXXXXX		12/04/19 20:26
34)	1	1204_33.D	XXXXXXXXXX		12/04/19 21:03

Injection Log

Data Directory: H:\AIR2019\CHEM24\12DEC\07A\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	1207_18.D	XXXXXXXXXX		N/A
2)	4	1207_01.D	XXXXXXXXXX		12/07/19 15:35
3)	5	1207_02.D	BFB TUNE	0/0	12/07/19 16:06
4)	3	1207_03.D	ICAL 0.02	0.02 ppbV	12/07/19 16:38
5)	4	1207_04.D	ICAL 0.035	0.035 ppbV	12/07/19 17:10
6)	5	1207_05.D	ICAL 0.05	0.05 ppbV	12/07/19 17:42
7)	6	1207_06.D	ICAL 0.1	0.10 ppbV	12/07/19 18:14
8)	8	1207_07.D	ICAL 0.5	0.5ppbV	12/07/19 18:52
9)	10	1207_08.D	ICAL 2.5	2.5 ppbV	12/07/19 19:29
10)	11	1207_09.D	ICAL 5	5.0 ppbV	12/07/19 20:02
11)	13	1207_10.D	ICAL 25	25 ppbV	12/07/19 20:38
12)	14	1207_11.D	ICAL 40	40	12/07/19 21:18
13)	15	1207_12.D	XXXXXXXXXX		12/07/19 21:49
14)	16	1207_13.D	ICAL 1	1ppb	12/07/19 22:22
15)	17	1207_14.D	ICAL 0.2	0.2ppb	12/07/19 22:56
16)	18	1207_15.D	ICAL 10	10ppb	12/07/19 23:28
17)	19	1207_16.D	XXXXXXXXXX		12/08/19 0:51
18)	20	1207_17.D	XXXXXXXXXX		12/08/19 1:22

Injection Log

Data Directory: H:\AIR2019\CHEM24\09SEP\09\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0910_26.D	XXXXXXXXXX		N/A
2)	1	0909_01.D	XXXXXXXXXX		09/09/19 8:42
3)	30	0909_02.D	XXXXXXXXXX		09/09/19 9:14
4)	31	0909_03.D	XXXXXXXXXX		09/09/19 9:46
5)	32	0909_04.D	XXXXXXXXXX		09/09/19 10:21
6)	33	0909_05.D	XXXXXXXXXX		09/09/19 10:53
7)	34	0909_06.D	XXXXXXXXXX		09/09/19 11:22
8)	35	0909_07.D	XXXXXXXXXX		09/09/19 11:52
9)	36	0909_08.D	XXXXXXXXXX		09/09/19 12:42
10)	37	0909_09.D	XXXXXXXXXX		09/09/19 13:17
11)	38	0909_10.D	XXXXXXXXXX		09/09/19 13:53
12)	39	0909_11.D	XXXXXXXXXX		09/09/19 14:28
13)	40	0909_12.D	XXXXXXXXXX		09/09/19 14:59
14)	41	0909_13.D	XXXXXXXXXX		09/09/19 16:05
15)	42	0909_14.D	XXXXXXXXXX		09/09/19 16:46
16)	43	0909_15.D	XXXXXXXXXX		09/09/19 17:21
17)	44	0909_16.D	XXXXXXXXXX		09/09/19 17:57
18)	45	0909_17.D	XXXXXXXXXX		09/09/19 18:32
19)	46	0909_18.D	XXXXXXXXXX		09/09/19 19:07
20)	47	0909_19.D	XXXXXXXXXX		09/09/19 19:37
21)	48	0909_20.D	XXXXXXXXXX		09/09/19 20:08
22)	49	0909_21.D	XXXXXXXXXX		09/09/19 20:48
23)	49	0909_22.D	XXXXXXXXXX		09/09/19 21:18
24)	50	0909_23.D	XXXXXXXXXX		09/09/19 21:51
25)	51	0909_24.D	XXXXXXXXXX		09/09/19 22:21
26)	52	0909_25.D	XXXXXXXXXX		09/09/19 22:52
27)	53	0909_26.D	XXXXXXXXXX		09/09/19 23:22
28)	54	0909_27.D	XXXXXXXXXX		09/10/19 0:40
29)	55	0909_28.D	XXXXXXXXXX		09/10/19 1:10
30)	56	0909_29.D	XXXXXXXXXX		09/10/19 1:41
31)	57	0909_30.D	XXXXXXXXXX		09/10/19 2:12
32)	58	0909_31.D	XXXXXXXXXX		09/10/19 2:47
33)	59	0909_32.D	XXXXXXXXXX		09/10/19 3:22
34)	60	0909_33.D	XXXXXXXXXX		09/10/19 3:53
35)	61	0909_34.D	XXXXXXXXXX		09/10/19 4:24
36)	62	0909_35.D	XXXXXXXXXX		09/10/19 4:55
37)	63	0910_01.D	XXXXXXXXXX		09/10/19 5:24
38)	64	0910_02.D	XXXXXXXXXX		09/10/19 5:56
39)	65	0910_03.D	XXXXXXXXXX		09/10/19 6:28
40)	66	0910_04.D	XXXXXXXXXX		09/10/19 7:03
41)	67	0910_05.D	XXXXXXXXXX		09/10/19 7:35
42)	67	0910_06.D	XXXXXXXXXX		09/10/19 8:04
43)	67	0910_07.D	XXXXXXXXXX		09/10/19 8:34
44)	67	0910_08.D	CANISTER BLK 1605	CANISTER BLK 1605	09/10/19 9:09
45)	68	0910_09.D	CANISTER BLK 1606	CANISTER BLK 1606	09/10/19 9:44
46)	69	0910_10.D	XXXXXXXXXX		09/10/19 10:19
47)	70	0910_11.D	XXXXXXXXXX		09/10/19 10:54
48)	71	0910_12.D	XXXXXXXXXX		09/10/19 11:25
49)	72	0910_13.D	XXXXXXXXXX		09/10/19 11:56
50)	73	0910_14.D	XXXXXXXXXX		09/10/19 12:31
51)	74	0910_15.D	XXXXXXXXXX		09/10/19 13:06
52)	73	0910_16.D	XXXXXXXXXX		09/10/19 13:37
53)	74	0910_17.D	XXXXXXXXXX		09/10/19 14:08
54)	75	0910_18.D	XXXXXXXXXX		09/10/19 14:39
55)	76	0910_19.D	XXXXXXXXXX		09/10/19 15:10
56)	77	0910_20.D	XXXXXXXXXX		09/10/19 15:59
57)	78	0910_21.D	XXXXXXXXXX		09/10/19 16:34
58)	79	0910_22.D	XXXXXXXXXX		09/10/19 17:09
59)	80	0910_23.D	XXXXXXXXXX		09/10/19 17:44
60)	81	0910_24.D	XXXXXXXXXX		09/10/19 21:06
61)	82	0910_25.D	XXXXXXXXXX		09/10/19 21:38

Injection Log

Data Directory: H:\AIR2019\CHEM24\12DEC\08\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	1211_02.D	XXXXXXXXXX		N/A
2)	1	1208_01.D	XXXXXXXXXX		12/08/19 22:28
3)	2	1208_02.D	BFB TUNE - CCAL 1	1ppb cc ; 31w - 1pp	12/08/19 23:01
4)	3	1208_03.D	XXXXXXXXXX		12/08/19 23:32
5)	4	1208_04.D	CE81151 LCS	CE81151 LCS	12/09/19 0:55
6)	5	1208_05.D	CE81151 LCSD	CE81151 LCSD	12/09/19 1:31
7)	7	1208_06.D	XXXXXXXXXX		12/09/19 2:01
8)	8	1208_07.D	CE81151 BLANK	CE81151 BLANK	12/09/19 2:32
9)	9	1208_08.D	XXXXXXXXXX		12/09/19 3:06
10)	10	1208_09.D	XXXXXXXXXX		12/09/19 9:06
11)	11	1208_10.D	XXXXXXXXXX		12/09/19 9:53
12)	12	1208_11.D	IA-6	CE70612	12/09/19 10:34
13)	13	1208_12.D	CE81151 QC	CE81151 QC	12/09/19 11:23
14)	14	1208_13.D	81151 dup	CE81151 DUP	12/09/19 11:59
15)	14	1208_14.D	XXXXXXXXXX		12/09/19 13:14
16)	15	1208_15.D	XXXXXXXXXX		12/09/19 13:51
17)	15	1208_16.D	XXXXXXXXXX		12/09/19 14:29
18)	15	1208_17.D	XXXXXXXXXX		12/09/19 15:05
19)	16	1208_18.D	XXXXXXXXXX		12/09/19 15:42
20)	17	1208_19.D	XXXXXXXXXX		12/09/19 16:18
21)	18	1208_20.D	XXXXXXXXXX		12/09/19 16:54
22)	19	1208_21.D	XXXXXXXXXX		12/09/19 17:35
23)	20	1208_22.D	XXXXXXXXXX		12/09/19 18:12
24)	21	1208_23.D	XXXXXXXXXX		12/09/19 18:49
25)	22	1208_24.D	XXXXXXXXXX		12/09/19 19:25
26)	23	1208_25.D	XXXXXXXXXX		12/09/19 19:56
27)	24	1208_26.D	XXXXXXXXXX		12/09/19 20:29
28)	25	1208_27.D	XXXXXXXXXX		12/09/19 21:03
29)	26	1208_28.D	XXXXXXXXXX		12/09/19 21:39
30)	27	1208_29.D	XXXXXXXXXX		12/09/19 22:10
31)	28	1208_30.D	XXXXXXXXXX		12/09/19 22:41
32)	29	1208_31.D	XXXXXXXXXX		12/09/19 23:15
33)	30	1208_32.D	XXXXXXXXXX		12/09/19 23:51
34)	31	1208_33.D	XXXXXXXXXX		12/10/19 0:33
35)	32	1208_34.D	XXXXXXXXXX		12/10/19 1:14
36)	33	1208_35.D	XXXXXXXXXX		12/10/19 8:44
37)	34	1208_36.D	XXXXXXXXXX		12/10/19 9:20
38)	35	1208_37.D	XXXXXXXXXX		12/10/19 9:56
39)	36	1208_38.D	XXXXXXXXXX		12/10/19 10:32
40)	37	1208_39.D	XXXXXXXXXX		12/10/19 11:08
41)	38	1208_40.D	XXXXXXXXXX		12/10/19 11:44
42)	39	1208_41.D	XXXXXXXXXX		12/10/19 12:20
43)	40	1208_42.D	XXXXXXXXXX		12/10/19 12:56
44)	41	1208_43.D	XXXXXXXXXX		12/10/19 13:28
45)	41	1208_44.D	XXXXXXXXXX		12/10/19 13:59
46)	42	1208_45.D	XXXXXXXXXX		12/10/19 14:31
47)	43	1208_46.D	XXXXXXXXXX		12/10/19 15:03
48)	44	1208_47.D	XXXXXXXXXX		12/10/19 15:34
49)	45	1208_48.D	XXXXXXXXXX		12/10/19 16:10
50)	46	1208_49.D	XXXXXXXXXX		12/10/19 16:45
51)	47	1208_50.D	XXXXXXXXXX		12/10/19 17:17
52)	48	1208_51.D	XXXXXXXXXX		12/10/19 17:53
53)	49	1208_52.D	XXXXXXXXXX		12/10/19 18:24
54)	49	1210_01.D	XXXXXXXXXX		12/10/19 18:54
55)	50	1210_02.D	XXXXXXXXXX		12/10/19 19:27
56)	51	1210_03.D	XXXXXXXXXX		12/10/19 19:59
57)	52	1210_04.D	XXXXXXXXXX		12/10/19 20:35
58)	53	1210_05.D	XXXXXXXXXX		12/10/19 21:05
59)	54	1210_06.D	XXXXXXXXXX		12/10/19 21:36
60)	55	1210_07.D	XXXXXXXXXX		12/10/19 22:42
61)	56	1210_08.D	XXXXXXXXXX		12/10/19 23:18
62)	57	1210_09.D	XXXXXXXXXX		12/10/19 23:54
63)	58	1210_10.D	XXXXXXXXXX		12/11/19 0:30
64)	59	1210_11.D	XXXXXXXXXX		12/11/19 1:11
65)	60	1210_12.D	XXXXXXXXXX		12/11/19 1:52
66)	61	1210_13.D	XXXXXXXXXX		12/11/19 2:23
67)	62	1210_14.D	XXXXXXXXXX		12/11/19 2:55
68)	63	1210_15.D	XXXXXXXXXX		12/11/19 3:31

69) 64 1210_16.D XXXXXXXXXXXX
70) 65 1210_17.D XXXXXXXXXXXX
71) 66 1210_18.D XXXXXXXXXXXX
72) 67 1210_19.D XXXXXXXXXXXX
73) 68 1210_20.D XXXXXXXXXXXX
74) 69 1210_21.D XXXXXXXXXXXX
75) 70 1210_22.D XXXXXXXXXXXX
76) 71 1210_23.D XXXXXXXXXXXX
77) 72 1210_24.D XXXXXXXXXXXX
78) 73 1211_01.D XXXXXXXXXXXX

12/11/19 4:03
12/11/19 10:44
12/11/19 11:29
12/11/19 12:10
12/11/19 12:46
12/11/19 13:22
12/11/19 13:57
12/11/19 14:33
12/11/19 15:05
12/11/19 15:38

ATTACHMENT 3
DATA USABILITY SUMMARY REPORT (MARCH 2021)

**BUILDING 339 JANE BAKES
INDOOR AIR QUALITY SAMPLING
DATA USABILITY SUMMARY REPORT
AT**

**PARK 84
FORMER IBM EAST FISHKILL FACILITY**

MARCH 2021

PREPARED FOR:

**JESSICA LACLAIR
NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
DEPT. OF ENVIRONMENTAL REMEDIATION
625 BROADWAY
ALBANY, NEW YORK 12233-7013**

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
Industry Leader in Environmental Engineering Consulting

———— PROACTIVE SOLUTIONS SINCE 1995 ————

Data Usability Summary Report

Indoor Air Quality Investigation
iPark 84, Former IBM East Fishkill Facility
Building 339 – Jane Bakes

This Data Usability Summary Report (DUSR) has been prepared to validate the results of air sampling conducted in Building 339 at the above-referenced facility. This sampling was conducted on December 2, 2019 in support of a pre-occupancy evaluation. Walden performed the sampling in accordance with the indoor air quality testing plan (dated November 20, 2019) and the conditional approval letter (dated November 22, 2019) received from the New York State Department of Environmental Conservation (NYSDEC) following NYSDEC and New York State Department of Health (NYSDOH) review of the Work Plan. A summary of the Building 339-Jane Bakes sampling results was submitted to NYSDEC and NYSDOH in a report dated December 6, 2019. NYSDEC approved occupancy of the Building 339-Jane Bakes space in a letter dated December 13, 2019.

This DUSR has been prepared in accordance with NYSDEC Draft DER-10 Appendix 2B – Guidance for Data Deliverables and the Development of Data Usability Summary Reports. The DUSR provides a thorough evaluation of analytical data without using the services of an independent third-party data validator. The primary objective of the DUSR is to determine whether or not the data presented meets project specific criteria for data quality and use.

The analytical data was evaluated by Mr. Lawrence Zeman (Walden), whose experience and qualifications to prepare the DUSR for this project are presented in the attached resume (see Attachment A). The air samples collected for laboratory analysis were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, NH, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory (NY Lab Registration #11301), and analyzed for volatile organic compounds (VOCs) via U.S. Environmental Protection Agency (USEPA) Modified Method TO-15 with the analytical detection limits set forth in the NYSDEC approved indoor air quality testing plan approved on November 22, 2019. The DUSR process consisted of evaluating the analytical data package produced by Phoenix and answering the following questions.

1. Were there any deviations in the sampling protocol which deviated from established sampling procedures?

The air samples were collected in laboratory provided individually certified, 6-liter Summa[®] canisters equipped with individually certified flow regulators. The regulators were calibrated by the laboratory for a sampling period of 8 hours; this sampling duration was chosen in

accordance with NYSDOH guidance for indoor air sampling of a commercial workspace with a single shift, to reflect the typical exposure scenario. The regulators served to maintain flow rates below the required maximum rate of 0.2 liters (200 milliliters) per minute during the sampling period to minimize outdoor air infiltration.

2. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?

The sampling and analytical program outlined in *Building 339-Jane Bakes Indoor Air Quality Testing Plan* was designed to conform to the NYSDEC ASP Category B and USEPA CLP deliverables criteria. Both field sampling and laboratory analytical activities were performed with built-in QA/QC programs. Duplicate samples were collected at a minimum of one (1) sample per ten (10) samples collected. The analytical laboratory (Phoenix) included method blanks and batch QA/QC samples as part of their standard QA/QC program. Additionally, the samples were handled in compliance with the holding time allowances.

3. Have all holding times been met?

Times of sample receipt, extraction, and analysis have been evaluated to determine whether the holding time specifications have been met. All of the samples were analyzed within the specified holding times.

4. Do all QC data (blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, and sample data) fall within the protocol-required limits and specifications?

All of the primary sample and QC data were reviewed. Duplicate sample analysis demonstrated a reasonable level of accuracy in the analytical results, and all of the QA/QC data met the protocol-required criteria with the exception as noted below.

- One Lab Control Sample (LCS) for o-xylene exceeded the acceptance criteria by 1%.
- 1,2,4-Trichlorobenzene exceeded the maximum percent deviations acceptance criteria by 4%.
- 1,4-Difluorobenzene, Bromochloromethane and Chlorobenzene-d5 exceeded the internal standard area and retention time criteria.

In summary, although all analytes did not meet the acceptance criteria, all other QA/QC acceptance criteria was met and the reliability of the laboratory results should not be affected.

5. Have all the data been generated using established and agreed upon analytical protocols?

Laboratory analytical protocols have been developed by the USEPA and are published in USEPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15 (Second Edition, January 1999). The review of the laboratory deliverables indicated that the analytical data for this project was generated following these standard protocols.

6. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

An evaluation of the raw data confirmed the accuracy of the results provided in the data summary sheets and the quality control verification forms included in the analytical data package prepared by the laboratory.

7. Have the correct data qualifiers been used?

The laboratory provided a list of qualifiers used in their data reporting. QC failures such as potential sample contamination by laboratory solvents or estimation of sample result values due to analyte concentrations detected above calibration ranges were checked back to the reported data to determine whether the qualifiers were properly used. The evaluation indicated that the laboratory flagged the data using the correct data qualifiers when necessary. The data qualifiers comply with the NYSDEC Analytical Services Protocol (ASP) 95 revised guidelines.

8. Have the minimum reporting limits been met?

The minimum reporting limits specified in the NYSDEC approved “*Indoor Air Quality Testing Plan*” are as follows:

ANALYTE LIST	MINIMUM REPORTING LIMIT (ug/m ³)
1,1,1-Trichloroethane	1.1
1,1-Dichloroethene	0.8
1,2,4-Trichlorobenzene	7.4
1,2-Dichlorobenzene	1.2
1,3-Dichlorobenzene	1.2
1,4-Dichlorobenzene	1.2
Acetone	2.4
Benzene	0.64
Carbon Tetrachloride	0.2
Chlorobenzene	0.92
Cis-1,2-Dichloroethene	0.8

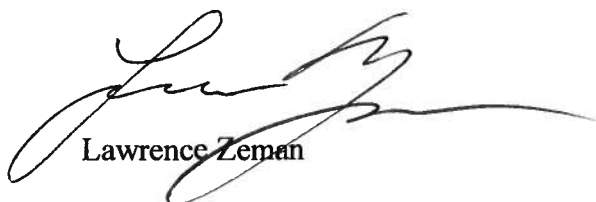
Dichlorodifluoromethane	1.0
Ethylbenzene	0.86
m,p-Xylene	0.86
Methylene Chloride	1.4
o-Xylene	0.86
Tetrachloroethene	1.4
Toluene	0.77
Trichloroethene	0.22
Trichlorofluoromethane	1.1
Trichlorotrifluoroethane	1.5
Vinyl Chloride	0.06

All reportable VOCs meet the minimum required reporting limits for all samples collected at Building 339-Jane Bakes on December 2, 2019.

Summary

In summary, the analytical data package review conducted when preparing this DUSR found no data deficiencies, analytical protocol deviations, or quality control problems that impact the quality of the data. No significant QC exceedances were identified and it was determined that none of the data should be rejected.

Prepared by:



Lawrence Zeman

Z:\Park0118\iPARK DUSRs\B339 Jane Bakes\DUSRVane Bakes Data Usability Summary Report.docx

Attachment A

Resume of Environmental Professional



Lawrence F. Zeman

Project Scientist II

Lawrence has 20 years of environmental and lab consulting experience, taking on difficult laboratory issues and QA/QC. He is very well versed in areas as diverse as regulatory compliance, test protocol development and implementation, management of instrument repair and maintenance, field inspections and on-site audits, correlation studies of various analyses and engineering/technical reporting.

SELECTED RELEVANT EXPERIENCE

Various Clients, New York

- Performed sample collection of various sample types at industrial facilities and construction & remediation project sites;
Conducted soil sample collection, field activities oversight and continuous air monitoring for Community Air Monitoring Program (CAMP) in accordance with DER-10 as follows:
 - Elmhurst Tank Park & Playground, Queens, NY (2009 – 2011);
 - Calvert Vaux Park and Athletic Fields, Brooklyn, NY (2009 – 2011), as an Independent Environmental Monitor (IEM) on-site technician;
 - Harlem Rive Greenway, Bronx, NY (2011 – 2012);
 - Beach Channel H.S. Athletic Fields (2016);
 - P.S. 63M William McKinley School, Manhattan, NY (2016);
 - P.S. 131 Abigail Adams Public School, Queens, NY (2017);
 - Forest Hills High School, Queens, NY (2017)
- Developed and implemented new testing protocols and test procedures;
- Conducted instrumentation repair and scheduled maintenance;
- Conducted correlation studies of various analytic procedures;
- Verified laboratory Quality Assurance and Quality Control procedures and data;
- Responsible for regulatory compliance and quality control;
- Prepared and submitted facilities' annual Zoning Performance Standards Compliance Reports, including noise, vibration, odor and opacity testing for DSNY permit renewal;
- Provided environmental services to ensure compliance for facility's NYS DEC Title V Air Facility Permit. Completed monthly, semi-annual and annual compliance reports;
- Conducted field Inspections and on-site audits;
- Performed field measurements and recording of Noise and Vibration;
- Prepared Engineering & Technical Reports;
- Prepared New York City Community Right-To-Know Law and SARA reports for Industrial facilities

EDUCATION

*B.A. Biology, Minor in
Chemistry* Queens College

LICENSES/ CERTIFICATIONS

New York State ELAP
Laboratory Director

New York State ELAP
Laboratory Microbiology
Assistant Director

New York Department of
Health Laboratory
Technologist

OSHA HAZWOPER 40-hour
& OSHA 10-hour Certified