



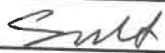
SHIPPING DOCUMENTS

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
NAS#: _____		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>Q1533</u>		Date Broken <u>3/7/2025</u>	
Case No.: <u>3555 Victory Blvd, Staten</u>		Military Time Seal Broken: <u>14:00:00</u>	
Analytical Parameter/Fraction <u>MOCMS Group3</u>			

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1533-01	SV1		
Q1533-02	IA1		
Q1533-03	SV2		
Q1533-04	IA2		
Q1533-05	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3-10-25	9:51	Signature 	Signature 	
		Printed Name <u>Casmax Perri</u>	Printed Name <u>Samuel J. Gelfand</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

LAB CHRONICLE

OrderID: Q1533	OrderDate: 3/10/2025 9:20:00 AM
Client: GFE LLC	Project: 3555 Victory Blvd, Staten Island NY
Contact: Frank Galdun	Location: F11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1533-01	SV1	Air	VOCMS Group3	TO-15	03/07/25		03/10/25	03/07/25
Q1533-02	IA1	Air	VOCMS Group3	TO-15	03/07/25		03/10/25	03/07/25
Q1533-03	SV2	Air	VOCMS Group3	TO-15	03/07/25		03/10/25	03/07/25
Q1533-04	IA2	Air	VOCMS Group3	TO-15	03/07/25		03/10/25	03/07/25
Q1533-05	OA1	Air	VOCMS Group3	TO-15	03/07/25		03/10/25	03/07/25

Hit Summary Sheet
SW-846

SDG No.: Q1533
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1533-01	SV1	Air	Trichloroethene	1.83		0.38	0.64	ug/m3
Q1533-01	SV1	Air	Tetrachloroethene	136		0.41	0.81	ug/m3
			Total Voc :	137				
			Total Concentration:	137				
Client ID:	IA1							
Q1533-02	IA1	Air	Trichloroethene	0.64		0.11	0.16	ug/m3
Q1533-02	IA1	Air	Tetrachloroethene	38.0		0.14	0.20	ug/m3
			Total Voc :	38.6				
			Total Concentration:	38.6				
Client ID:	SV2							
Q1533-03	SV2	Air	Trichloroethene	1.72		0.38	0.64	ug/m3
Q1533-03	SV2	Air	Tetrachloroethene	121		0.41	0.81	ug/m3
			Total Voc :	122				
			Total Concentration:	122				
Client ID:	IA2							
Q1533-04	IA2	Air	Tetrachloroethene	7.46		0.14	0.20	ug/m3
			Total Voc :	7.46				
			Total Concentration:	7.46				
Client ID:	OA1							
Q1533-05	OA1	Air	Tetrachloroethene	0.20		0.14	0.20	ug/m3
			Total Voc :	0.20				
			Total Concentration:	0.20				



QC SUMMARY

Surrogate Summary

SDG No.: Q1533

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1532-01DUP	1DUP	1-Bromo-4-Fluorobenzene	10	10.2	101	65	135
Q1533-01	SV1	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135
Q1533-02	IA1	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
Q1533-03	SV2	1-Bromo-4-Fluorobenzene	10	11.1	111	65	135
Q1533-04	IA2	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
Q1533-05	OA1	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL0310ABL01	VL0310ABL01	1-Bromo-4-Fluorobenzene	10	9.90	99	65	135
VL0310ABS01	VL0310ABS01	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1533
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL042117.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0310ABS01	Vinyl Chloride	10	10.4	ppbv	104			70	130	
	1,1-Dichloroethene	10	9.40	ppbv	94			70	130	
	cis-1,2-Dichloroethene	10	7.90	ppbv	79			70	130	
	1,1,1-Trichloroethane	10	7.90	ppbv	79			70	130	
	Trichloroethene	10	8.40	ppbv	84			70	130	
	Tetrachloroethene	10	8.40	ppbv	84			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1532-01DUP	Q1532-01
Client Id :	1DUP	1
DF :	1	1
Datafile :	VL042122.D	VL042121.D
Anal Date & Time :	03/10/2025 13:32	03/10/2025 12:59

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.14	0.12	15.4
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1533

SAS No.: Q1533 SDG NO.: Q1533

Lab File ID: VL042122.D

Lab Sample ID: Q1532-01DUP

Date Analyzed: 03/10/2025

Time Analyzed: 13:32

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1DUP	Q1532-01DUP	VL042122.D	03/10/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0310ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1533

SAS No.: Q1533 SDG NO.: Q1533

Lab File ID: VL042116.D

Lab Sample ID: VL0310ABL01

Date Analyzed: 03/10/2025

Time Analyzed: 09:54

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0310ABS01	VL0310ABS01	VL042117.D	03/10/2025
IA1	Q1533-02	VL042132.D	03/10/2025
IA2	Q1533-04	VL042133.D	03/10/2025
OA1	Q1533-05	VL042134.D	03/10/2025
SV1	Q1533-01	VL042135.D	03/10/2025
SV2	Q1533-03	VL042137.D	03/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1533 SAS No.: Q1533 SDG NO.: Q1533
Lab File ID: VL042040.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:56
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.9 (7.8) 1
176	93.0 - 101.0% of mass 174	60.9 (96.1) 1
177	5.0 - 9.0% of mass 176	3.4 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042041.D	02/25/2025	08:56
VSTDICCC002	VSTDICCC002	VL042042.D	02/25/2025	09:29
VSTDICCC001	VSTDICCC001	VL042043.D	02/25/2025	10:00
VSTDICCC0.5	VSTDICCC0.5	VL042044.D	02/25/2025	10:31
VSTDICCC0.1	VSTDICCC0.1	VL042045.D	02/25/2025	11:03
VSTDICCC0.03	VSTDICCC0.03	VL042046.D	02/25/2025	11:34
VSTDICCC015	VSTDICCC015	VL042047.D	02/25/2025	12:07

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1533 SAS No.: Q1533 SDG NO.: Q1533
Lab File ID: VL042114.D BFB Injection Date: 03/10/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:22
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.1
175	4.0 - 9.0% of mass 174	4.8 (7.6) 1
176	93.0 - 101.0% of mass 174	60.4 (95.6) 1
177	5.0 - 9.0% of mass 176	3.9 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042115.D	03/10/2025	09:08
VL0310ABL01	VL0310ABL01	VL042116.D	03/10/2025	09:54
VL0310ABS01	VL0310ABS01	VL042117.D	03/10/2025	10:52
1DUP	Q1532-01DUP	VL042122.D	03/10/2025	13:32
IA1	Q1533-02	VL042132.D	03/10/2025	18:57
IA2	Q1533-04	VL042133.D	03/10/2025	19:30
OA1	Q1533-05	VL042134.D	03/10/2025	20:03
SV1	Q1533-01	VL042135.D	03/10/2025	20:35
SV2	Q1533-03	VL042137.D	03/10/2025	21:38

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1533 SAS No.: Q1533 SDG NO.: Q1533
 Lab File ID: VL042115.D Date Analyzed: 03/10/2025
 Instrument ID: MSVOA_L Time Analyzed: 09:08
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	165085	2.80	392891	3.98	342991	8.90
UPPER LIMIT	231119	3.13	550047	4.31	480187	9.23
LOWER LIMIT	99051	2.47	235735	3.65	205795	8.57
EPA SAMPLE NO.						
1DUP	163759	2.80	380274	3.98	322839	8.90
SV1	156004	2.80	363367	3.98	361132	8.90
IA1	159604	2.80	375544	3.98	321362	8.90
SV2	157696	2.80	369982	3.98	340317	8.90
IA2	163450	2.80	382061	3.98	315801	8.90
OA1	159732	2.80	372131	3.98	309256	8.90
VL0310ABL01	162394	2.80	386417	3.97	325291	8.90
VL0310ABS01	168824	2.80	400351	3.98	350466	8.90

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% 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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1533 SAS No.: Q1533 SDG NO.: Q1533
 Lab File ID: VL042115.D Date Analyzed: 03/10/2025
 Instrument ID: MSVOA_L Time Analyzed: 09:08
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
1DUP	0	0.00				
SV1	0	0.00				
IA1	0	0.00				
SV2	0	0.00				
IA2	0	0.00				
OA1	0	0.00				
VL0310ABL01	0	0.00				
VL0310ABS01	0	0.00				

IS4 =

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% 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.



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	03/07/25
Project:	3555 Victory Blvd, Staten Island NY	Date Received:	03/07/25
Client Sample ID:	SV1	SDG No.:	Q1533
Lab Sample ID:	Q1533-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042135.D	4		03/10/25 20:35	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.34	1.83		0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	20.0	136		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	156000		2.797			
540-36-3	1,4-Difluorobenzene	363000		3.975			
3114-55-4	Chlorobenzene-d5	361000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042135.D
 Acq On : 10 Mar 2025 20:35
 Operator : SY/MD
 Sample : Q1533-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Mar 11 01:30:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	156004	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	363367	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	361132	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	291547	10.494	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%

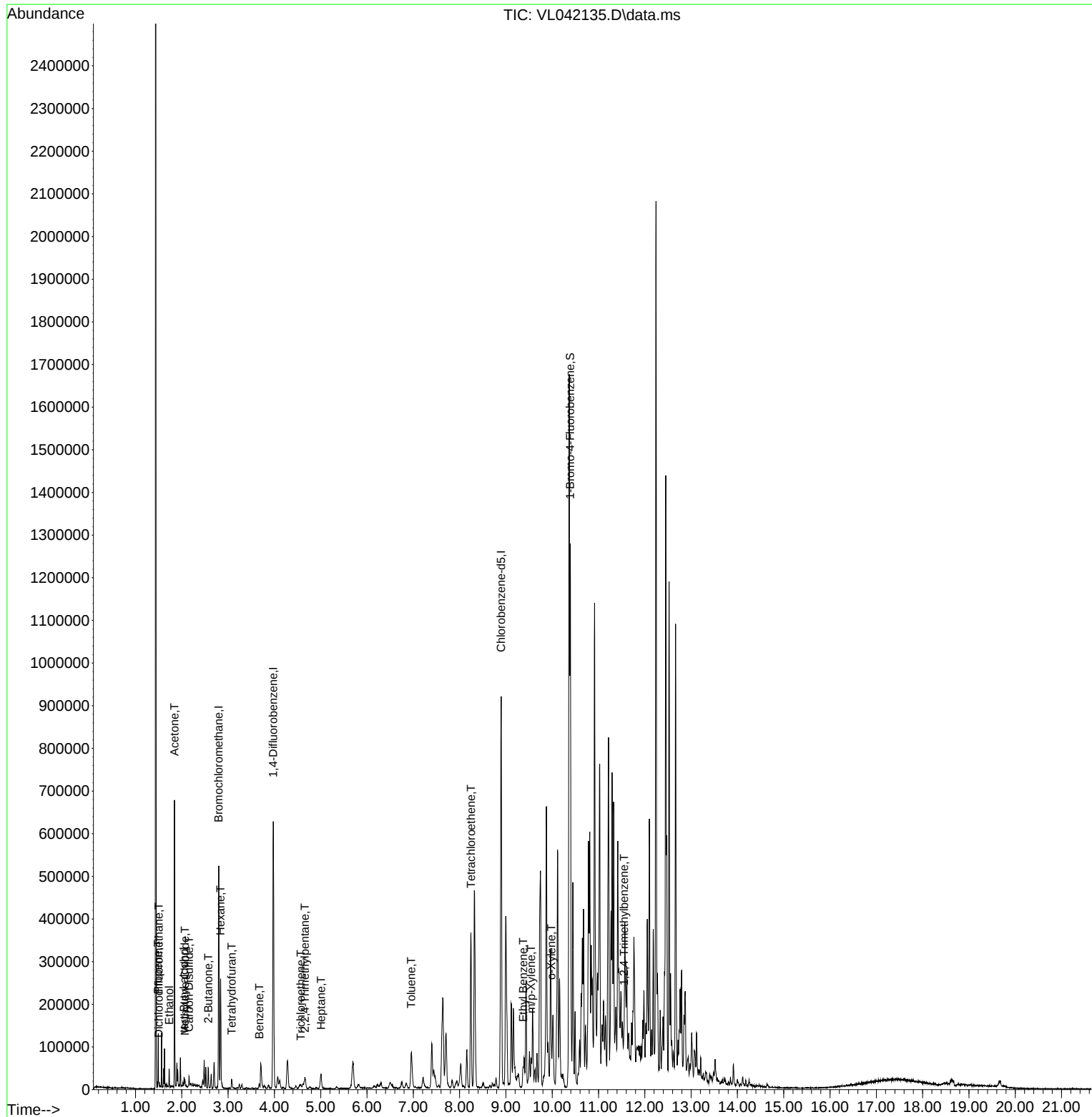
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2726	0.168	ppbv	96
9) Propene	1.489	41	15176	1.643	ppbv	87
10) Heptane	5.007	43	11678m	0.406	ppbv	
13) Ethanol	1.725	45	15196	25.916	ppbv	100
15) Acetone	1.842	43	283161	20.553	ppbv	97
17) tert-Butyl alcohol	2.049	59	6767	0.393	ppbv #	90
20) Methylene Chloride	2.068	84	2081	0.399	ppbv #	92
26) Hexane	2.836	57	56304	2.526	ppbv #	32
27) Carbon Disulfide	2.156	76	12486	0.826	ppbv #	50
34) 2-Butanone	2.570	43	31746	1.121	ppbv	99
36) Benzene	3.674	78	6330	0.166	ppbv #	90
38) Trichloroethene	4.570	130	1341m	0.086	ppbv	
41) Tetrahydrofuran	3.075	42	7030	0.420	ppbv #	88
44) 2,2,4-Trimethylpentane	4.658	57	18556m	0.276	ppbv	
52) Tetrachloroethene	8.244	164	65181	5.005	ppbv	93
53) Toluene	6.956	91	56731	1.334	ppbv	99
58) Ethyl Benzene	9.370	91	17744	0.267	ppbv	93
59) m/p-Xylene	9.545	91	40168	0.759	ppbv #	100
60) o-Xylene	9.979	91	27711	0.521	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	26398m	0.416	ppbv	

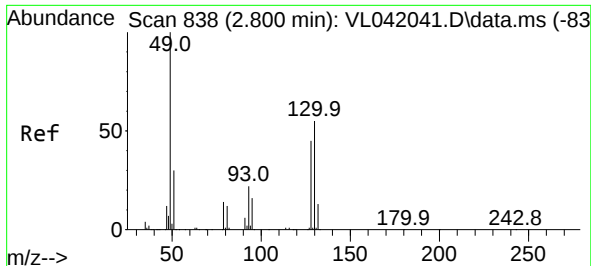
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042135.D
Acq On : 10 Mar 2025 20:35
Operator : SY/MD
Sample : Q1533-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Mar 11 01:30:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

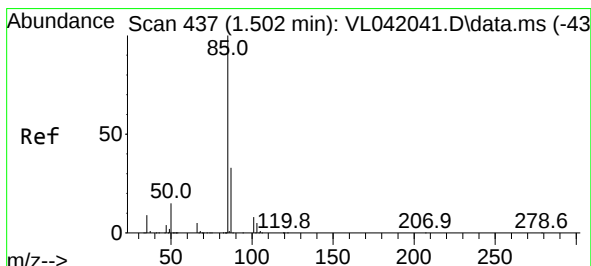
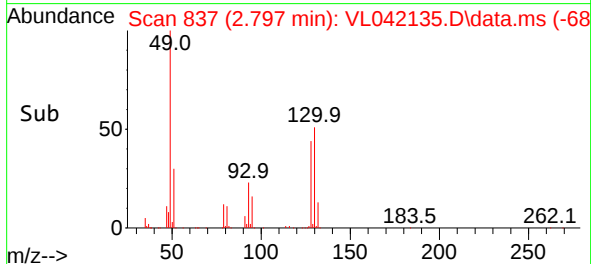
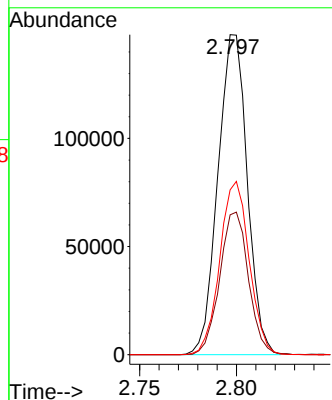
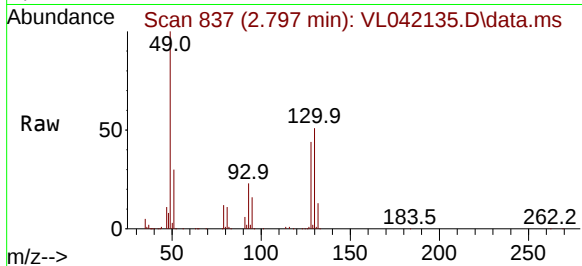




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042135.D
 Acq: 10 Mar 2025 20:35

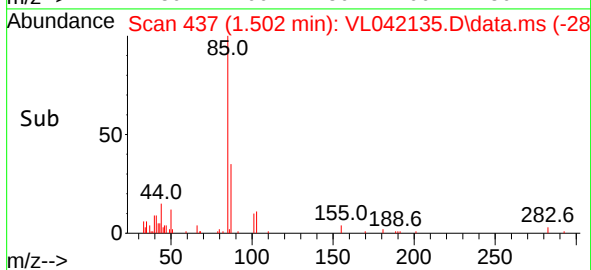
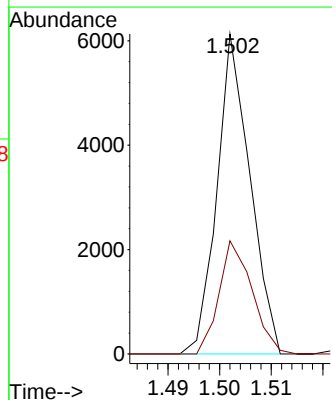
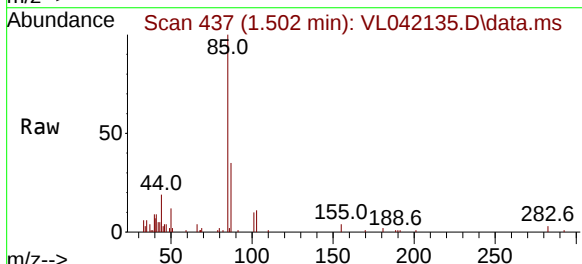
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

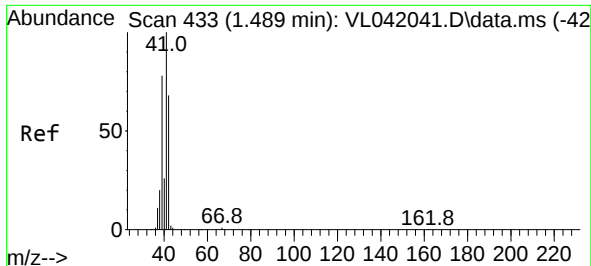
Tgt Ion: 49 Resp: 156004
 Ion Ratio Lower Upper
 49 100
 128 43.7 21.6 64.8
 130 54.4 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.168 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. -0.000 min
 Lab File: VL042135.D
 Acq: 10 Mar 2025 20:35

Tgt Ion: 85 Resp: 2726
 Ion Ratio Lower Upper
 85 100
 87 35.4 26.4 39.6





#9

Propene

Concen: 1.643 ppbv

RT: 1.489 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

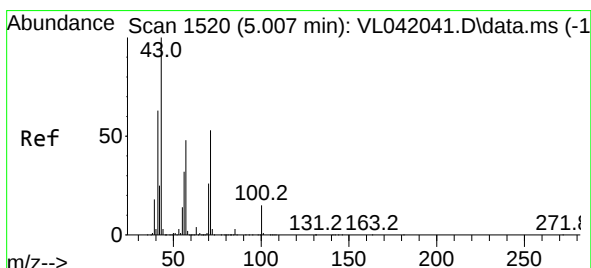
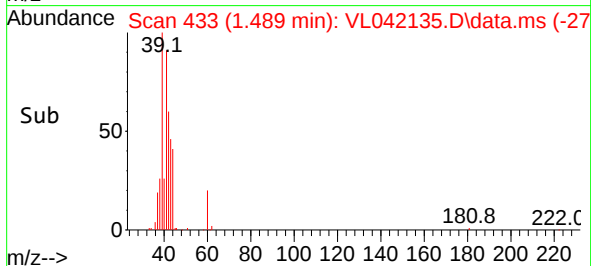
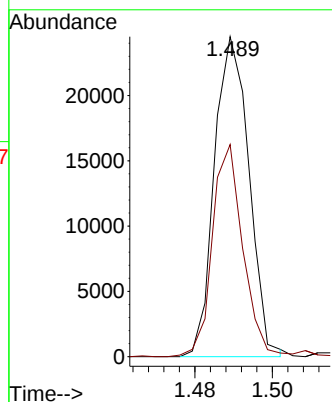
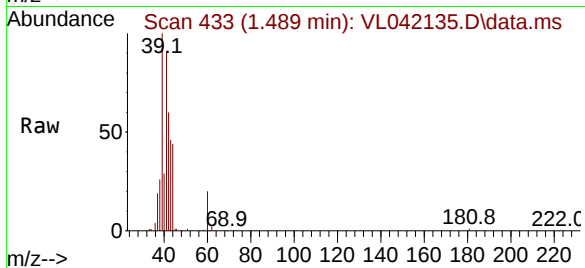
SV1

Tgt Ion: 41 Resp: 15176

Ion Ratio Lower Upper

41 100

42 59.5 55.8 83.6



#10

Heptane

Concen: 0.406 ppbv m

RT: 5.007 min Scan# 1520

Delta R.T. -0.000 min

Lab File: VL042135.D

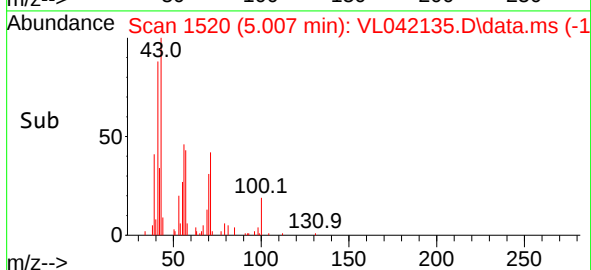
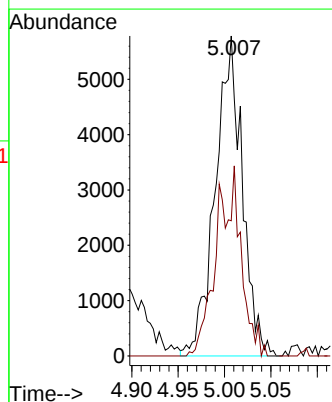
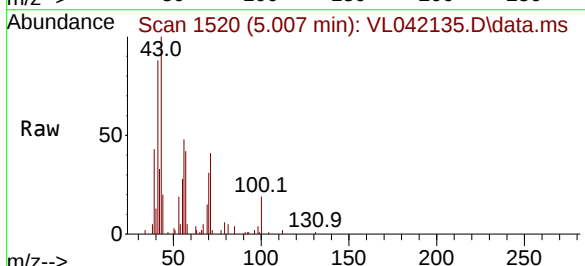
Acq: 10 Mar 2025 20:35

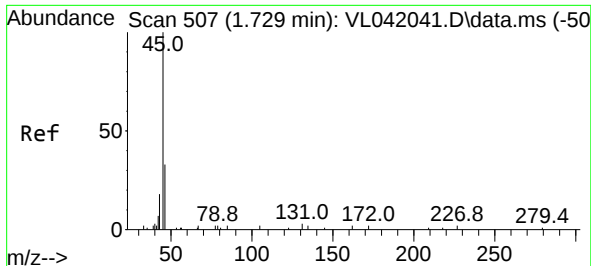
Tgt Ion: 43 Resp: 11678

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.0#

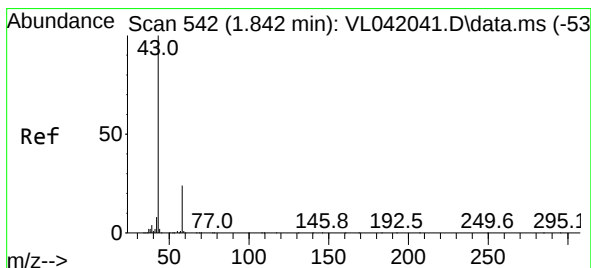
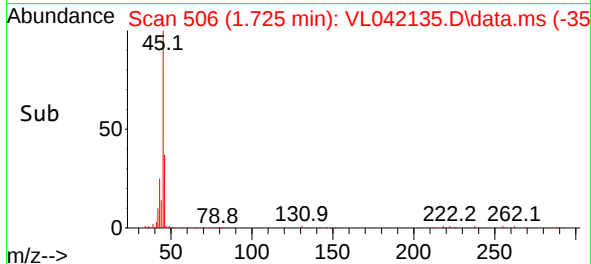
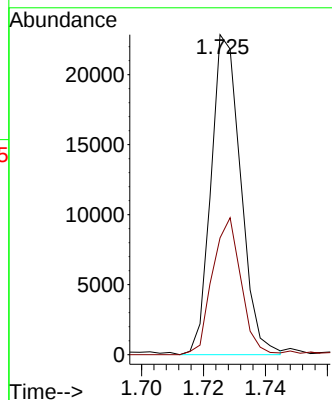
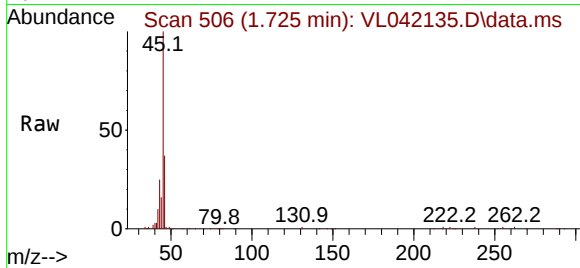




#13
 Ethanol
 Concen: 25.916 ppbv
 RT: 1.725 min Scan# 507
 Delta R.T. -0.003 min
 Lab File: VL042135.D
 Acq: 10 Mar 2025 20:35

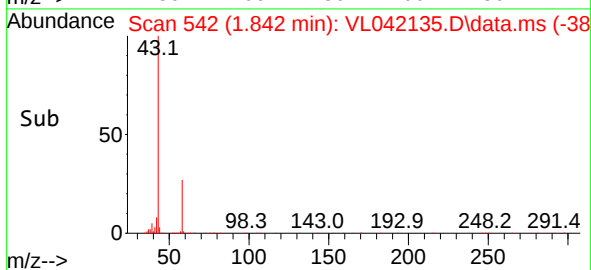
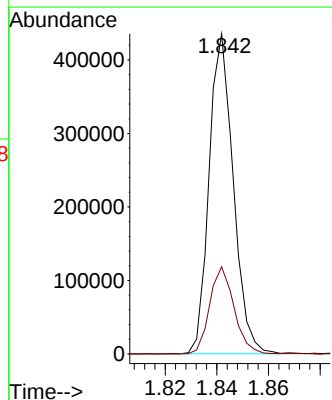
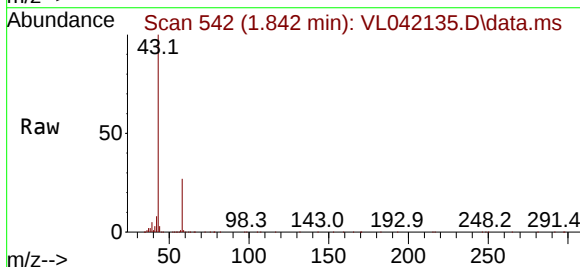
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

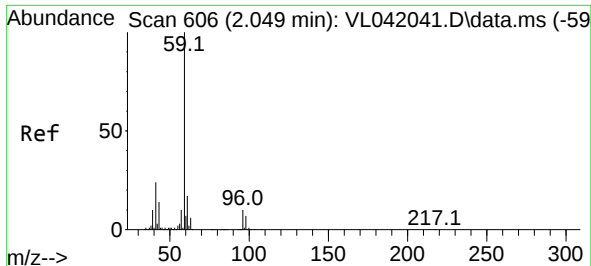
Tgt Ion: 45 Resp: 15196
 Ion Ratio Lower Upper
 45 100
 46 42.9 17.1 68.3



#15
 Acetone
 Concen: 20.553 ppbv
 RT: 1.842 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: VL042135.D
 Acq: 10 Mar 2025 20:35

Tgt Ion: 43 Resp: 283161
 Ion Ratio Lower Upper
 43 100
 58 27.6 20.7 31.1

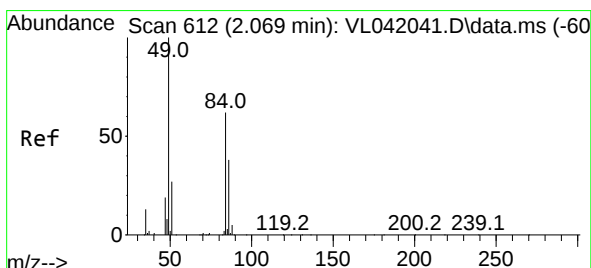
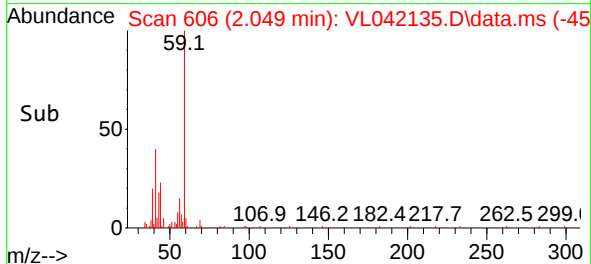
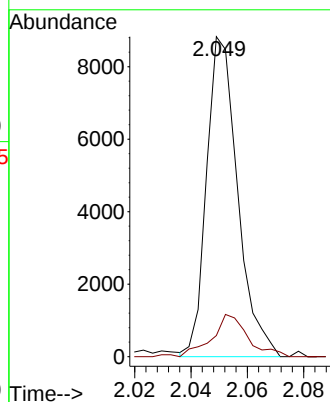
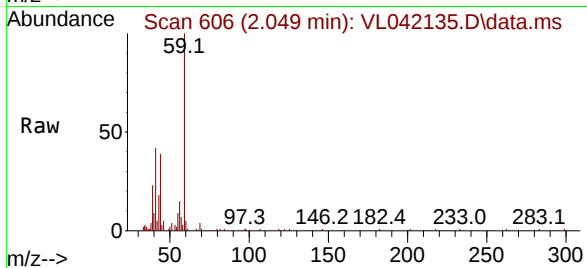




#17
tert-Butyl alcohol
Concen: 0.393 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.000 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

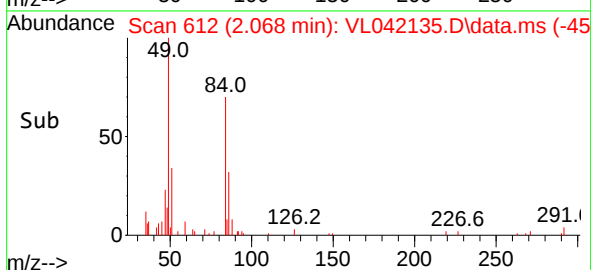
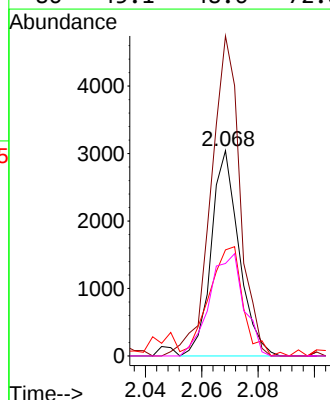
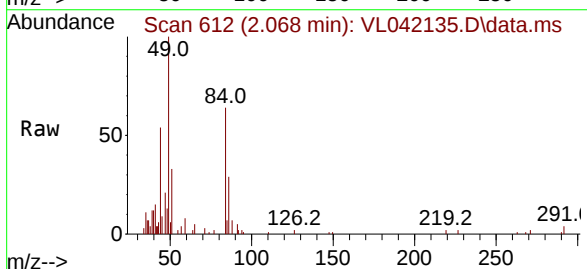
Instrument :
MSVOA_L
ClientSampleId :
SV1

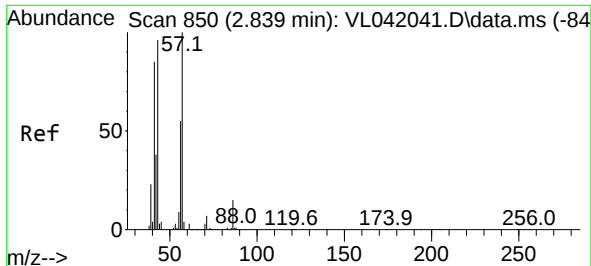
Tgt Ion: 59 Resp: 6767
Ion Ratio Lower Upper
59 100
57 15.3 9.3 13.9#



#20
Methylene Chloride
Concen: 0.399 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Tgt Ion: 84 Resp: 2081
Ion Ratio Lower Upper
84 100
49 155.9 130.0 195.0
51 49.9 37.4 56.0
86 45.1 48.6 72.8#

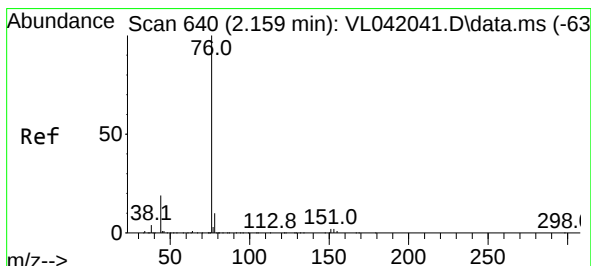
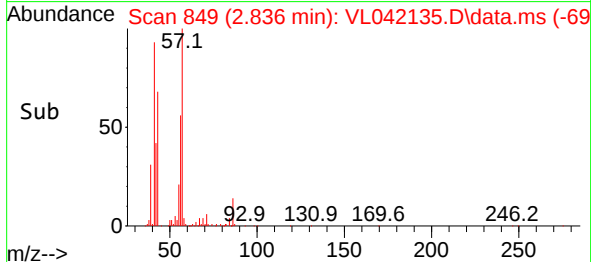
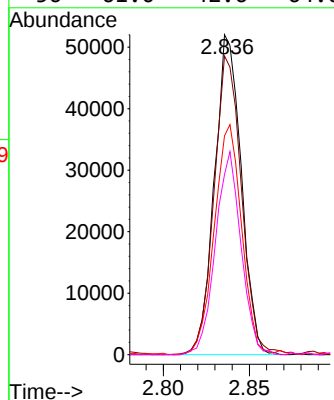
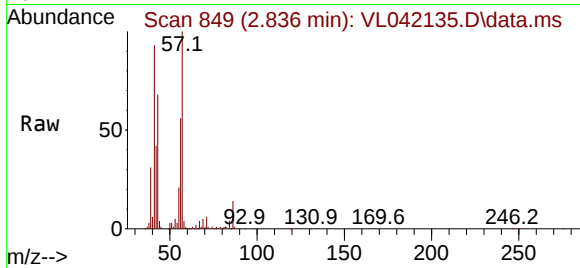




#26
Hexane
Concen: 2.526 ppbv
RT: 2.836 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

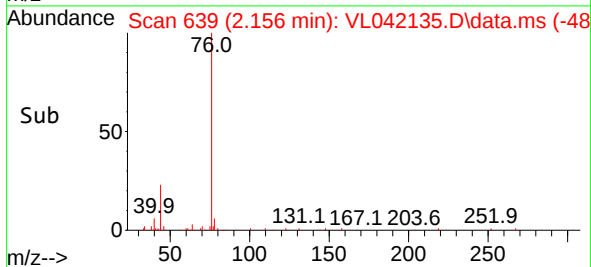
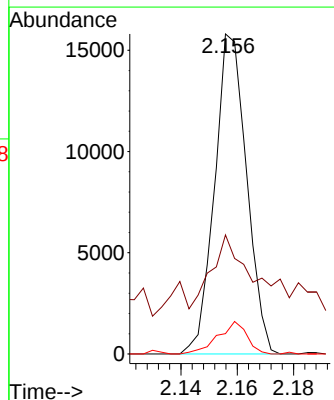
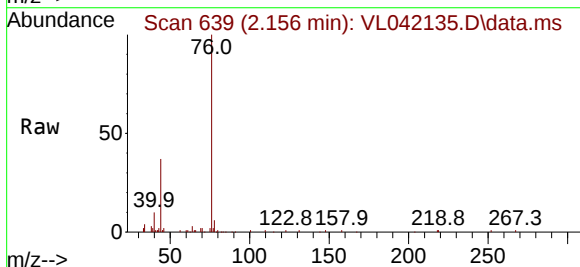
Instrument :
MSVOA_L
ClientSampleId :
SV1

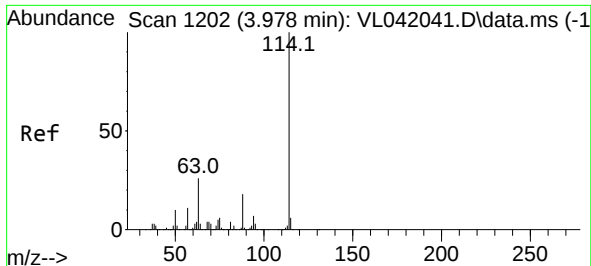
Tgt Ion: 57	Resp: 56304
Ion Ratio	Lower Upper
57 100	
41 96.1	70.6 106.0
43 73.9	199.4 299.0#
56 61.0	42.6 64.0



#27
Carbon Disulfide
Concen: 0.826 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Tgt Ion: 76	Resp: 12486
Ion Ratio	Lower Upper
76 100	
44 55.0	16.2 24.2#
78 9.7	9.4 14.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

SV1

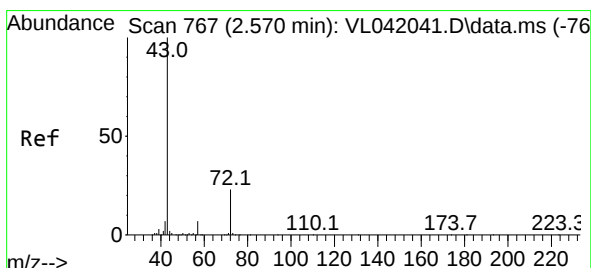
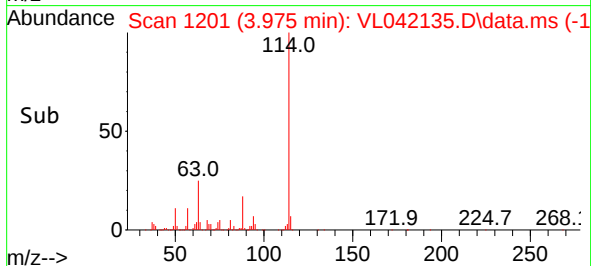
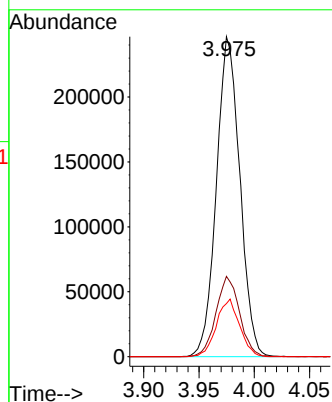
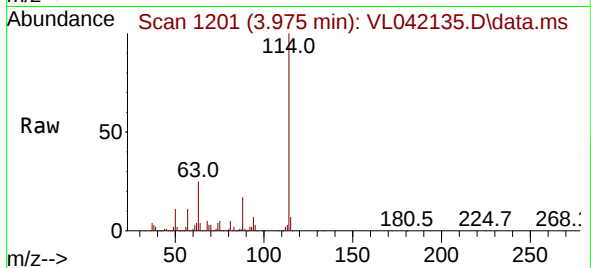
Tgt Ion:114 Resp: 363367

Ion Ratio Lower Upper

114 100

63 25.3 20.1 30.1

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 1.121 ppbv

RT: 2.570 min Scan# 767

Delta R.T. -0.000 min

Lab File: VL042135.D

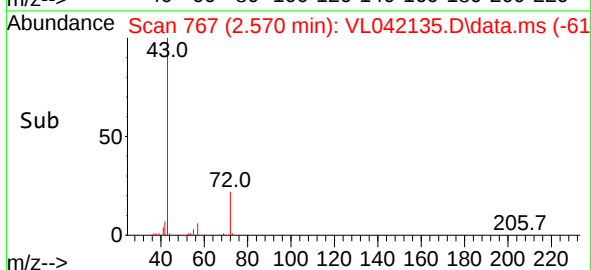
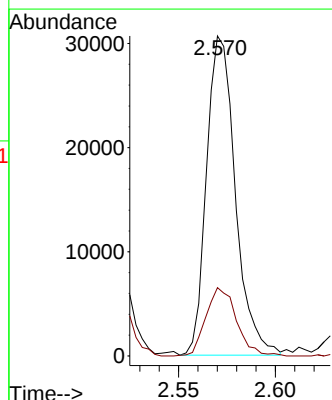
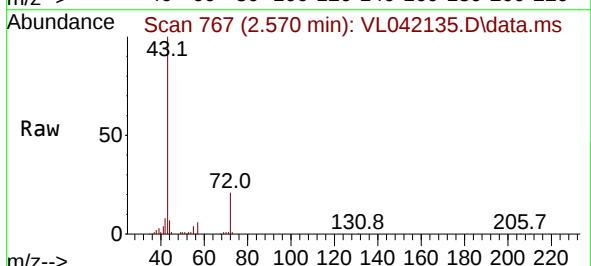
Acq: 10 Mar 2025 20:35

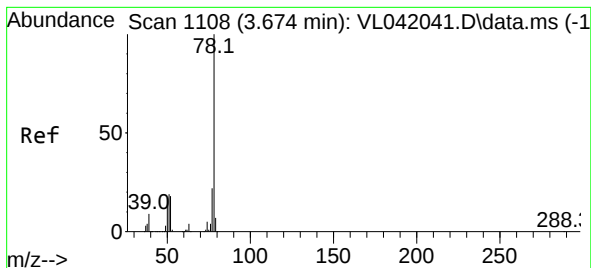
Tgt Ion: 43 Resp: 31746

Ion Ratio Lower Upper

43 100

72 22.7 18.5 27.7





#36

Benzene

Concen: 0.166 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

SV1

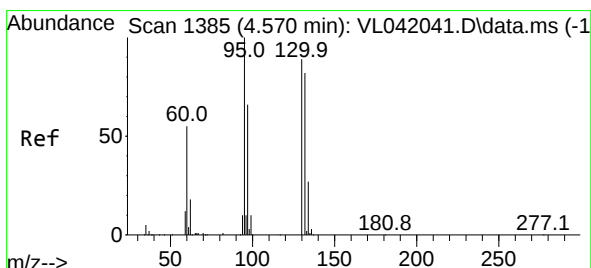
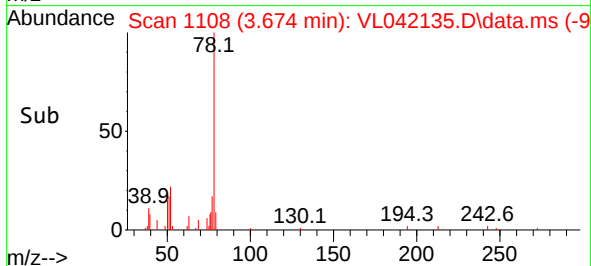
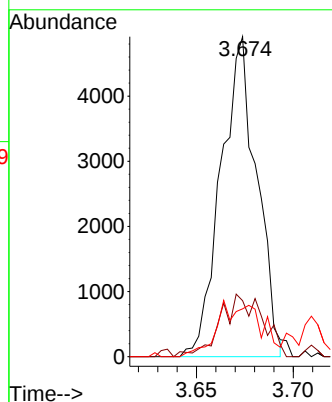
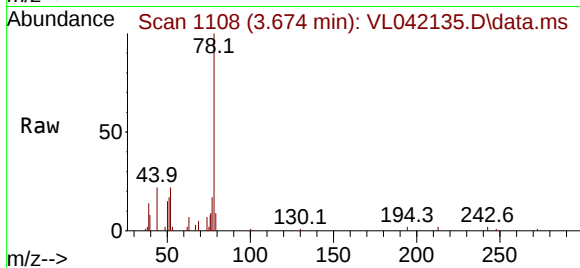
Tgt Ion: 78 Resp: 6330

Ion Ratio Lower Upper

78 100

77 15.9 17.7 26.5#

50 14.9 13.9 20.9



#38

Trichloroethene

Concen: 0.086 ppbv m

RT: 4.570 min Scan# 1385

Delta R.T. -0.000 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Tgt Ion: 130 Resp: 1341

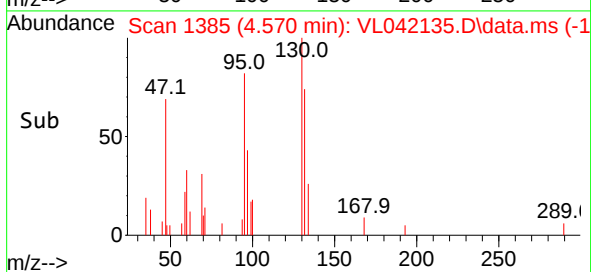
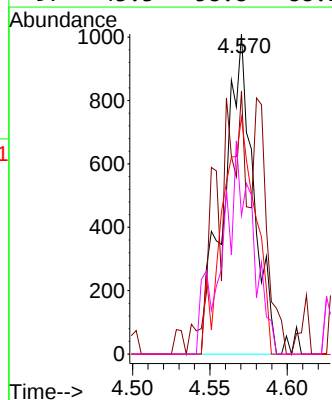
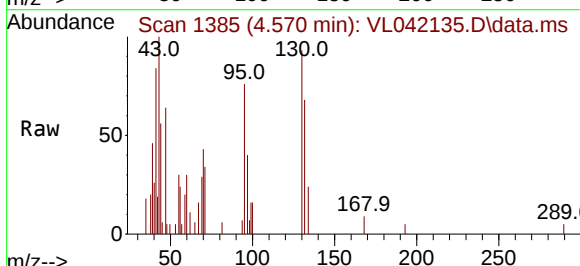
Ion Ratio Lower Upper

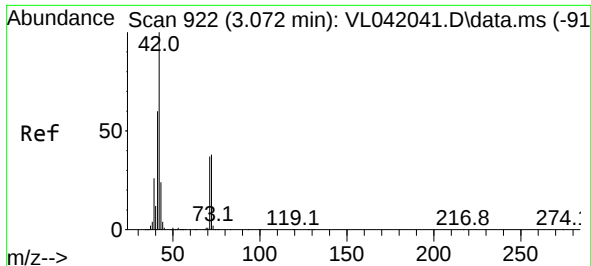
130 100

95 82.2 89.5 134.3#

132 74.0 73.8 110.6

97 43.3 58.8 88.2#

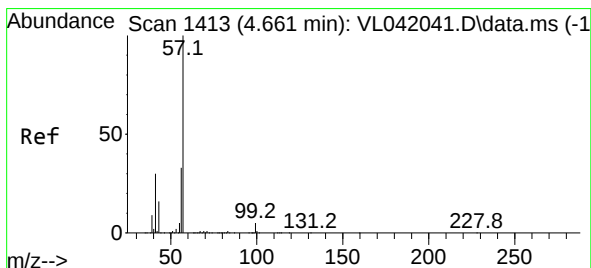
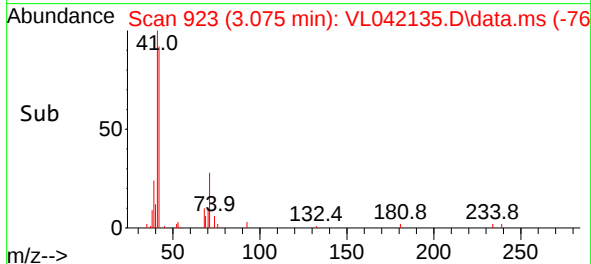
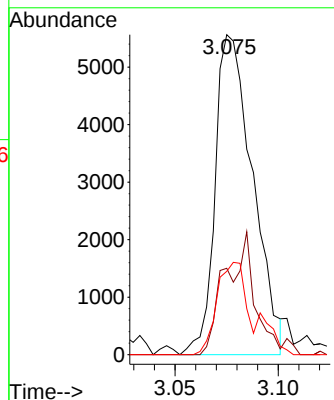
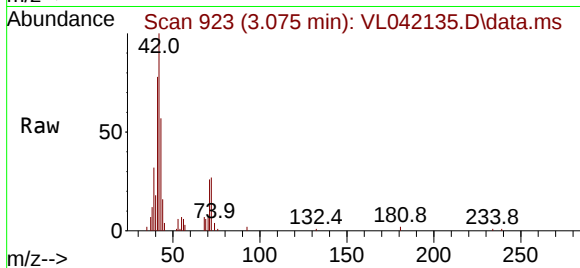




#41
Tetrahydrofuran
Concen: 0.420 ppbv
RT: 3.075 min Scan# 91
Delta R.T. 0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

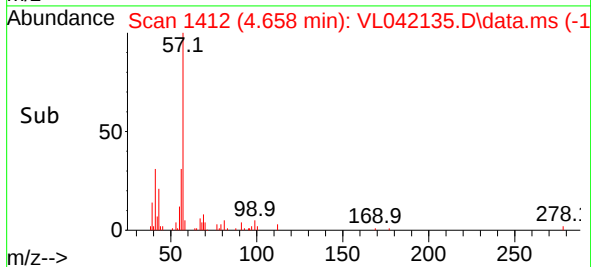
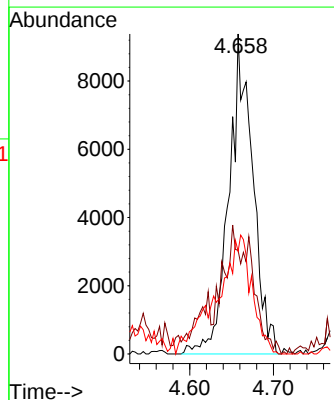
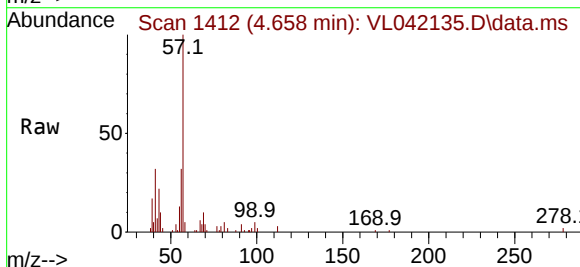
Instrument :
MSVOA_L
ClientSampleId :
SV1

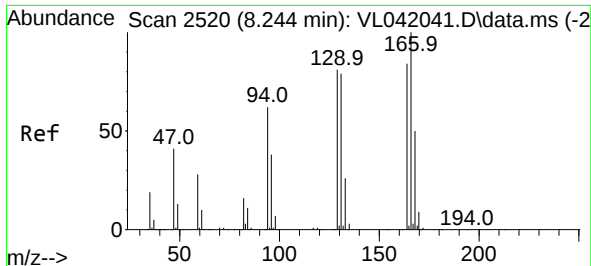
Tgt Ion: 42 Resp: 7030
Ion Ratio Lower Upper
42 100
72 31.4 30.2 45.2
71 27.6 28.2 42.4#



#44
2,2,4-Trimethylpentane
Concen: 0.276 ppbv m
RT: 4.658 min Scan# 1412
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Tgt Ion: 57 Resp: 18556
Ion Ratio Lower Upper
57 100
41 59.1 24.4 36.6#
56 55.2 26.5 39.7#

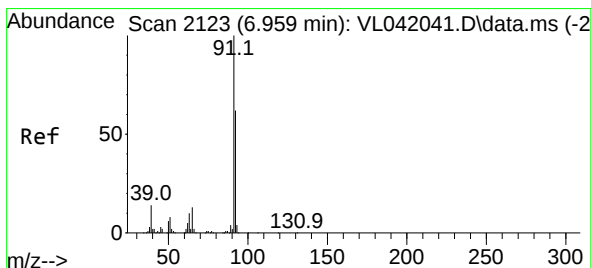
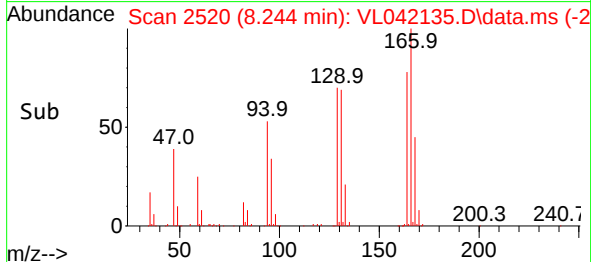
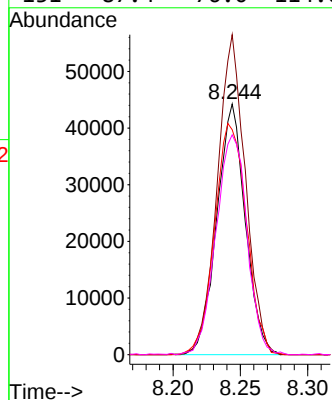
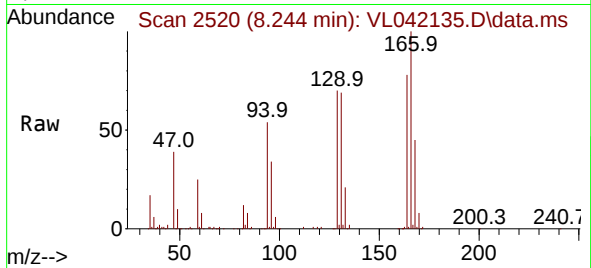




#52
Tetrachloroethene
Concen: 5.005 ppbv
RT: 8.244 min Scan# 2122
Delta R.T. -0.000 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

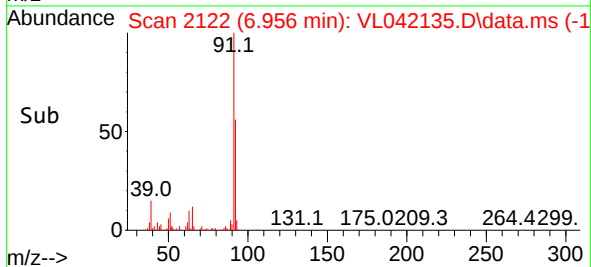
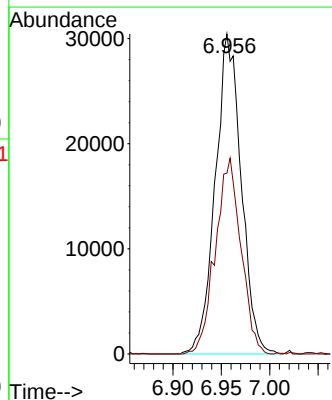
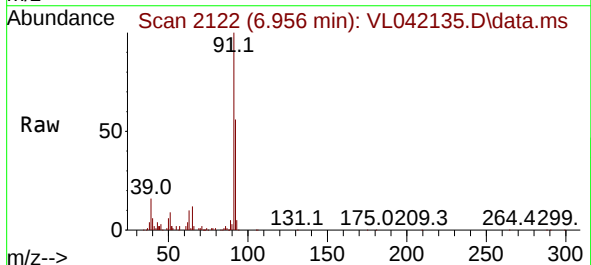
Instrument :
MSVOA_L
ClientSampleId :
SV1

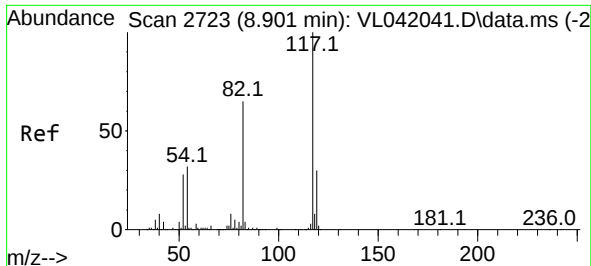
Tgt Ion:164 Resp: 65181
Ion Ratio Lower Upper
164 100
166 127.6 95.7 143.5
129 89.6 77.1 115.7
131 87.4 76.0 114.0



#53
Toluene
Concen: 1.334 ppbv
RT: 6.956 min Scan# 2122
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Tgt Ion: 91 Resp: 56731
Ion Ratio Lower Upper
91 100
92 60.5 49.0 73.6

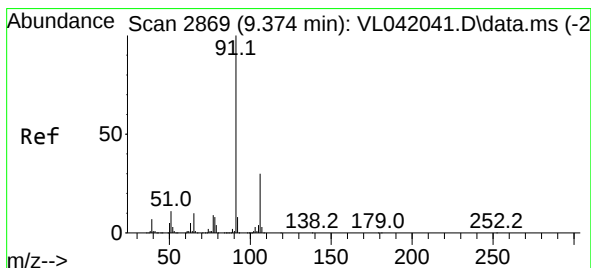
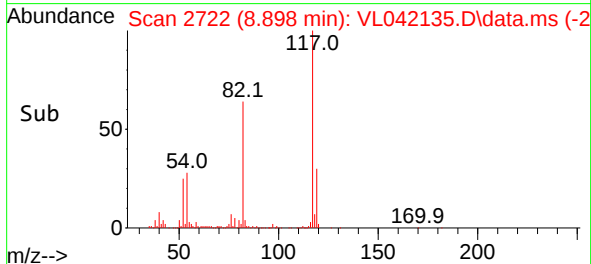
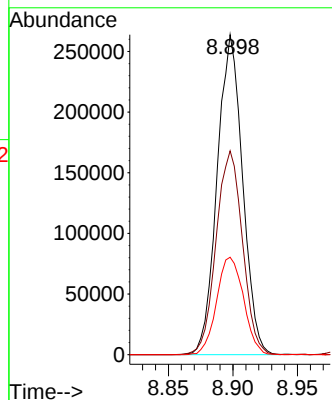
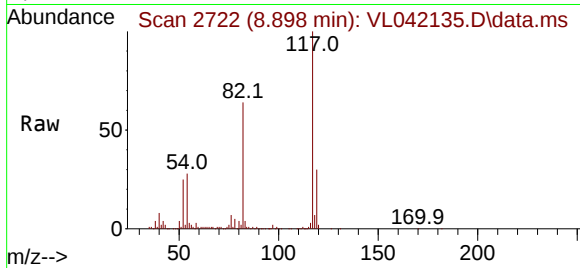




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

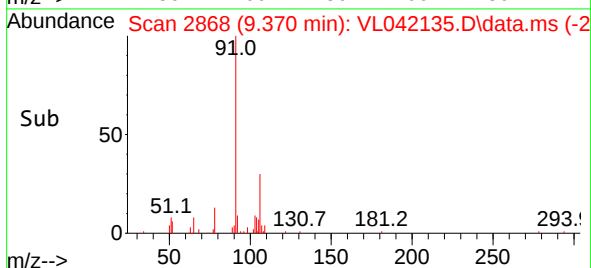
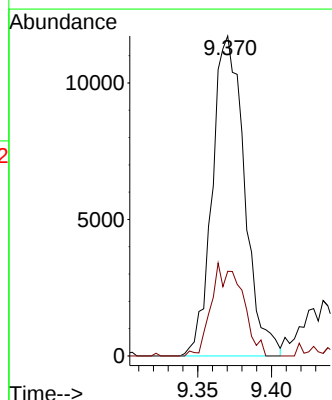
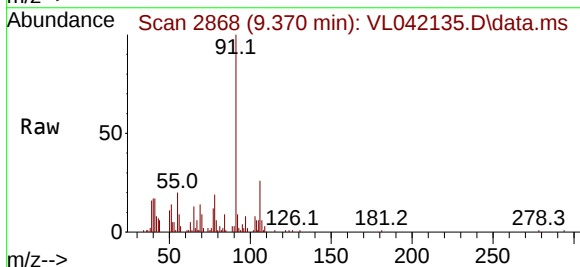
Instrument :
MSVOA_L
ClientSampleId :
SV1

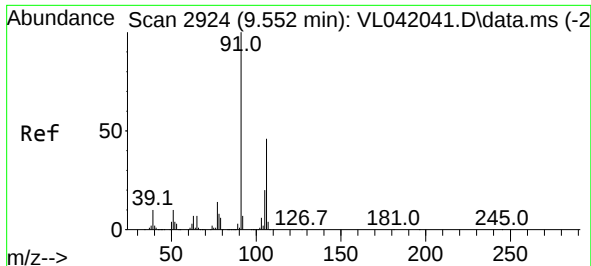
Tgt Ion:117 Resp: 361132
Ion Ratio Lower Upper
117 100
82 66.1 55.0 82.6
119 32.2 25.9 38.9



#58
Ethyl Benzene
Concen: 0.267 ppbv
RT: 9.370 min Scan# 2868
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Tgt Ion: 91 Resp: 17744
Ion Ratio Lower Upper
91 100
106 26.5 24.2 36.2





#59

m/p-Xylene

Concen: 0.759 ppbv

RT: 9.545 min Scan# 2924

Delta R.T. -0.007 min

Lab File: VL042135.D

Acq: 10 Mar 2025 20:35

Instrument :

MSVOA_L

ClientSampleId :

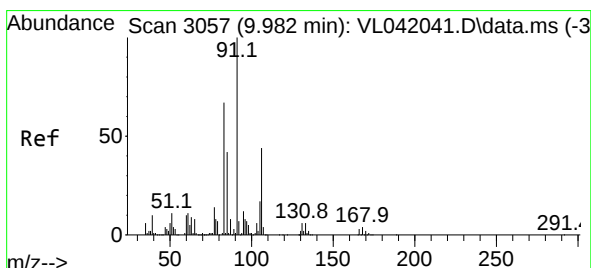
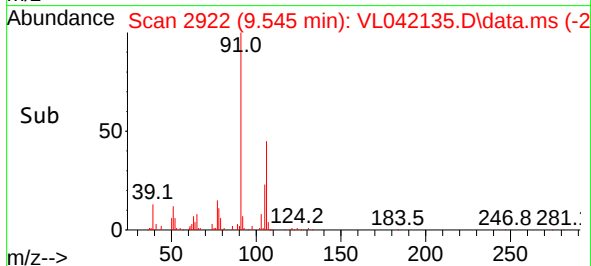
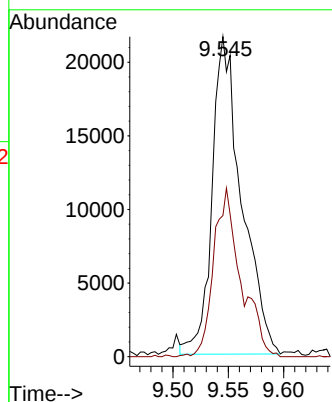
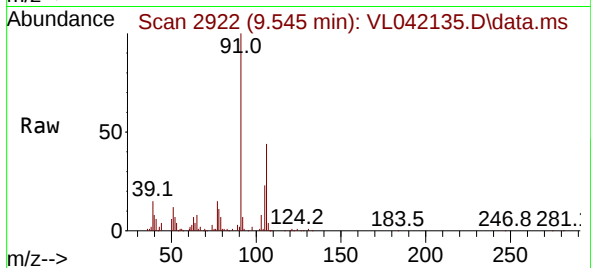
SV1

Tgt Ion: 91 Resp: 40168

Ion Ratio Lower Upper

91 100

106 48.9 0.0 0.0#



#60

o-Xylene

Concen: 0.521 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. -0.003 min

Lab File: VL042135.D

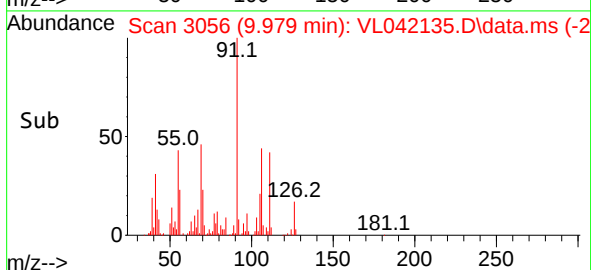
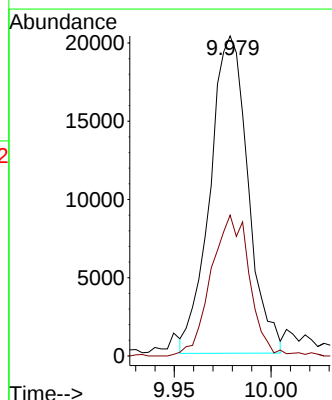
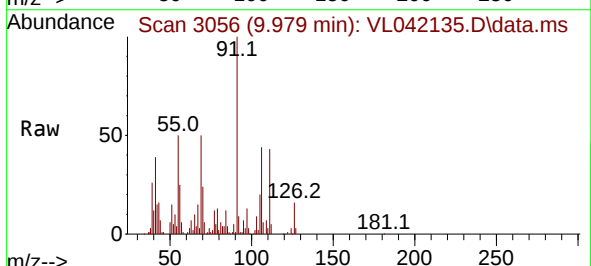
Acq: 10 Mar 2025 20:35

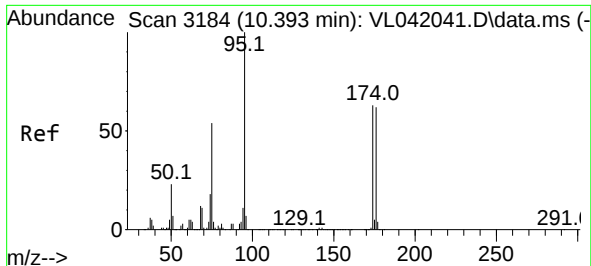
Tgt Ion: 91 Resp: 27711

Ion Ratio Lower Upper

91 100

106 45.6 22.3 66.8

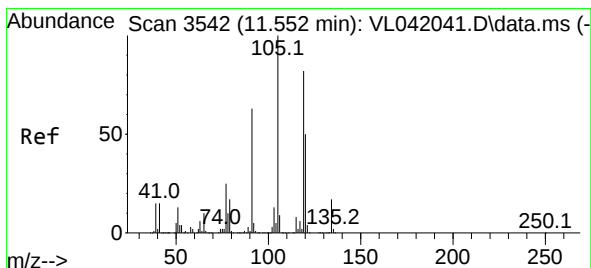
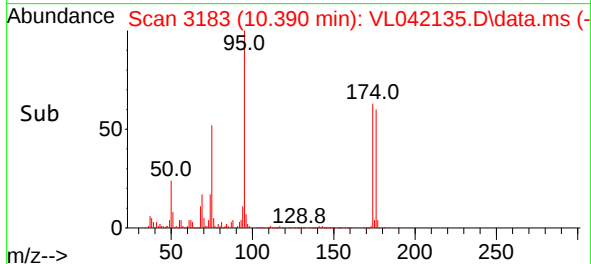
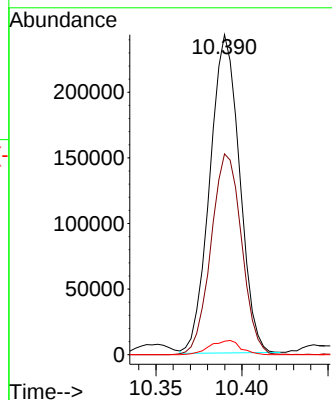
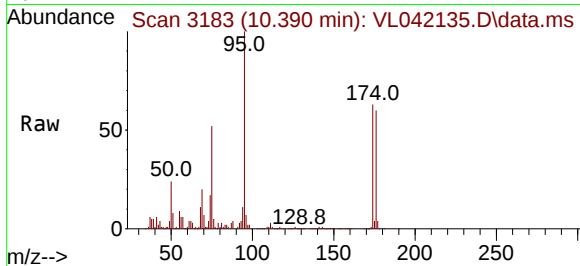




#68
1-Bromo-4-Fluorobenzene
Concen: 10.494 ppbv
RT: 10.390 min Scan# 3184
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

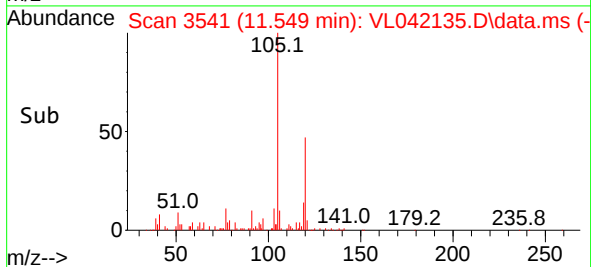
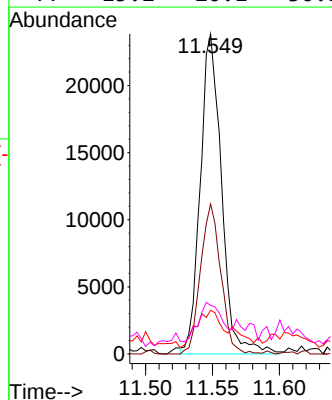
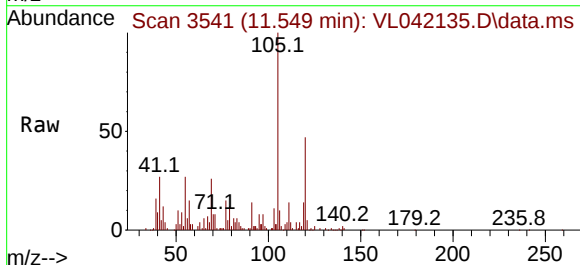
Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 291547
Ion Ratio Lower Upper
95 100
174 65.0 51.8 77.6
175 4.6 3.9 5.9



#74
1,2,4-Trimethylbenzene
Concen: 0.416 ppbv m
RT: 11.549 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042135.D
Acq: 10 Mar 2025 20:35

Tgt Ion: 105 Resp: 26398
Ion Ratio Lower Upper
105 100
120 46.9 40.2 60.2
91 13.7 51.4 77.2#
77 15.2 20.1 30.1#



Report of Analysis

Client:	GFE LLC	Date Collected:	03/07/25
Project:	3555 Victory Blvd, Staten Island NY	Date Received:	03/07/25
Client Sample ID:	IA1	SDG No.:	Q1533
Lab Sample ID:	Q1533-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042132.D	1		03/10/25 18:57	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.12	0.64		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	5.60	38.0		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000		2.8			
540-36-3	1,4-Difluorobenzene	376000		3.981			
3114-55-4	Chlorobenzene-d5	321000		8.901			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042132.D
 Acq On : 10 Mar 2025 18:57
 Operator : SY/MD
 Sample : Q1533-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Mar 11 01:29:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

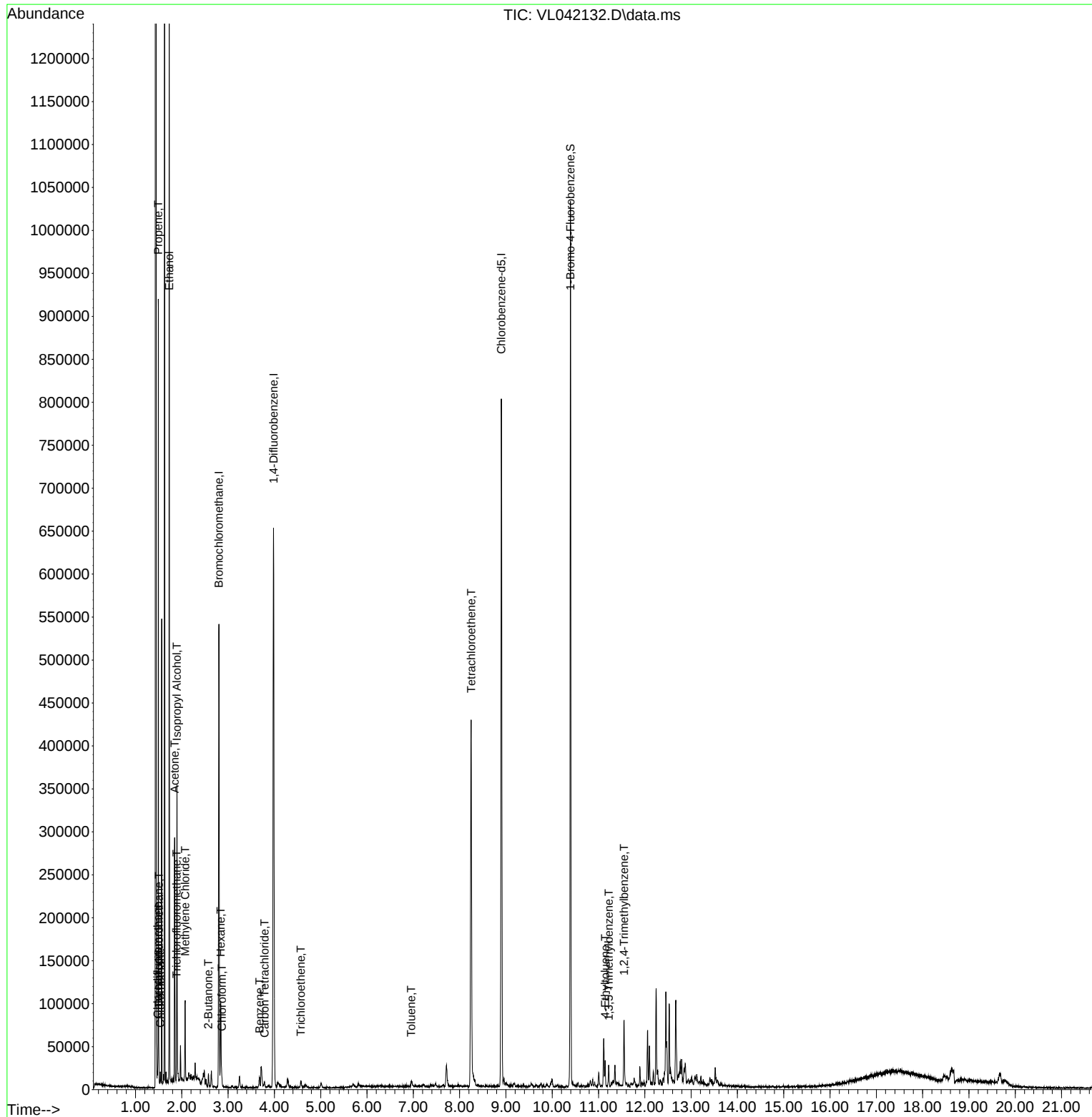
Internal Standards							
1) Bromochloromethane		2.800	49	159604	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.981	114	375544	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.901	117	321362	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.393	95	247451	10.009	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		1.505	85	9353	0.564	ppbv	99
3) Chlorodifluoromethane		1.483	51	5935m	0.256	ppbv	
4) Chloromethane		1.538	50	4002	0.652	ppbv #	77
9) Propene		1.492	41	65925m	6.976	ppbv	
11) Trichlorofluoromethane		1.887	101	4652m	0.280	ppbv	
13) Ethanol		1.729	45	477214	795.501	ppbv	93
15) Acetone		1.845	43	127232	9.027	ppbv	99
19) Isopropyl Alcohol		1.894	45	145417	17.961	ppbv #	66
20) Methylene Chloride		2.072	84	14289	2.680	ppbv	97
26) Hexane		2.839	57	19683	0.863	ppbv #	39
29) Chloroform		2.865	83	3392	0.110	ppbv	94
34) 2-Butanone		2.573	43	9462	0.323	ppbv	97
35) Carbon Tetrachloride		3.787	117	1758m	0.068	ppbv	
36) Benzene		3.680	78	6649m	0.169	ppbv	
38) Trichloroethene		4.570	130	1858m	0.116	ppbv	
52) Tetrachloroethene		8.250	164	75686	5.624	ppbv	97
53) Toluene		6.952	91	4407m	0.100	ppbv	
72) 4-Ethyltoluene		11.144	105	11863m	0.205	ppbv	
73) 1,3,5-Trimethylbenzene		11.218	105	8012	0.160	ppbv	98
74) 1,2,4-Trimethylbenzene		11.552	105	25333	0.449	ppbv #	69

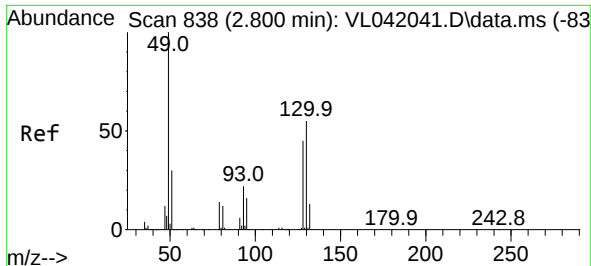
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042132.D
Acq On : 10 Mar 2025 18:57
Operator : SY/MD
Sample : Q1533-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Mar 11 01:29:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

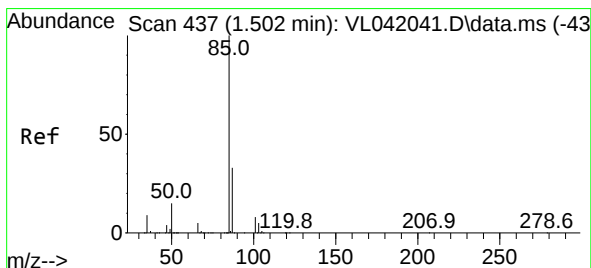
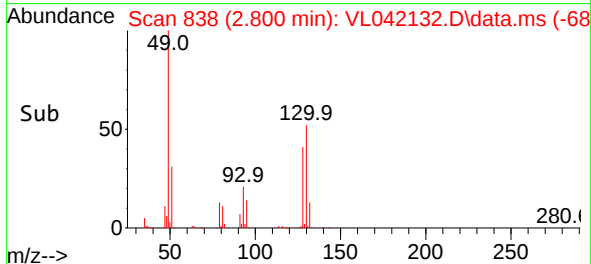
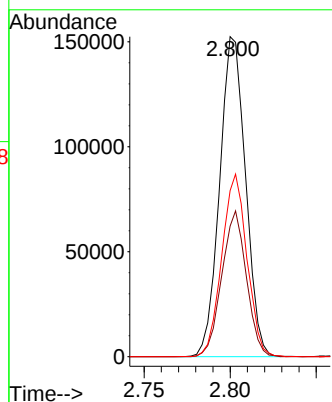
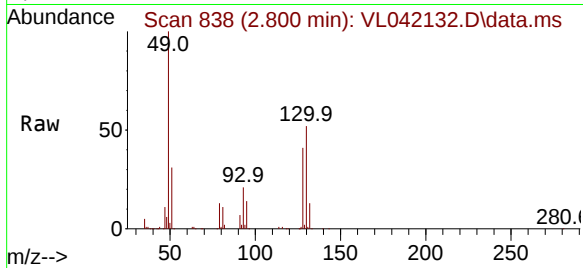




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042132.D
 Acq: 10 Mar 2025 18:57

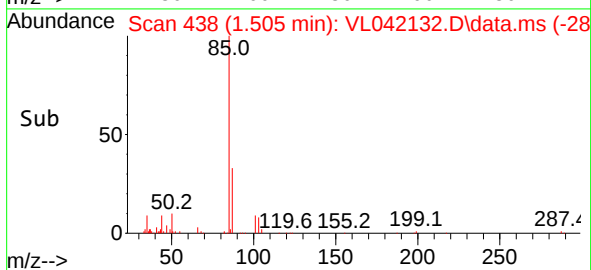
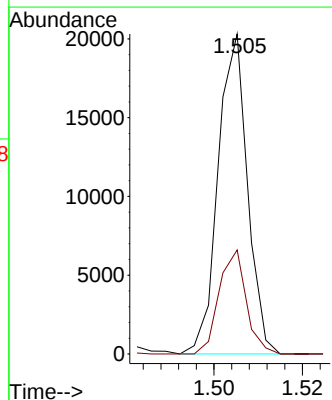
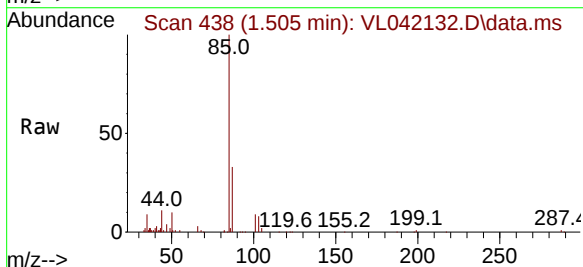
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

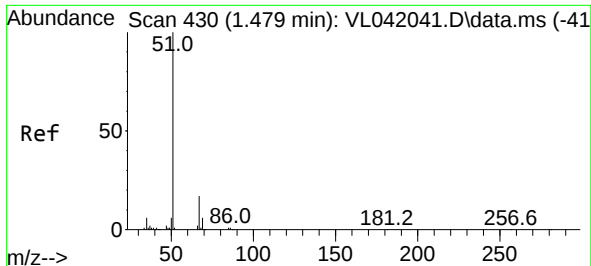
Tgt Ion: 49 Resp: 159604
 Ion Ratio Lower Upper
 49 100
 128 43.2 21.6 64.8
 130 55.4 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.564 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.003 min
 Lab File: VL042132.D
 Acq: 10 Mar 2025 18:57

Tgt Ion: 85 Resp: 9353
 Ion Ratio Lower Upper
 85 100
 87 32.5 26.4 39.6

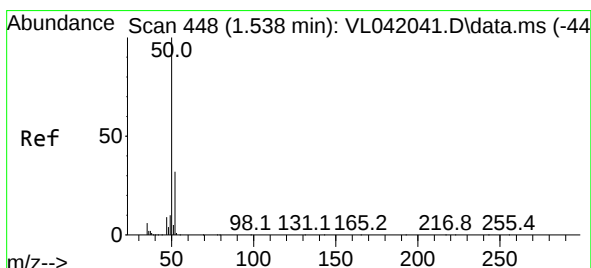
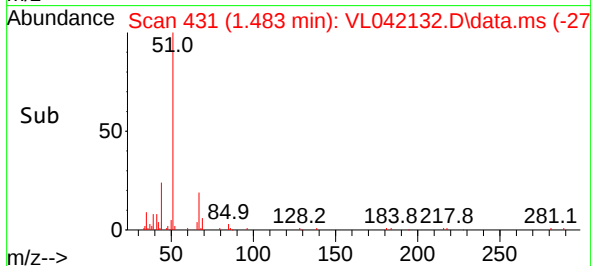
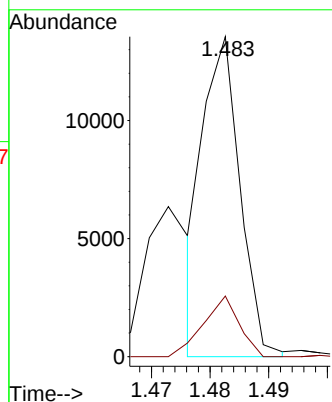
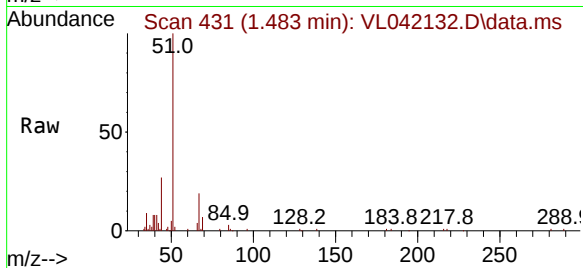




#3
Chlorodifluoromethane
Concen: 0.256 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

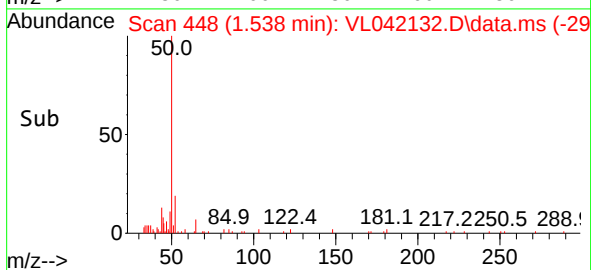
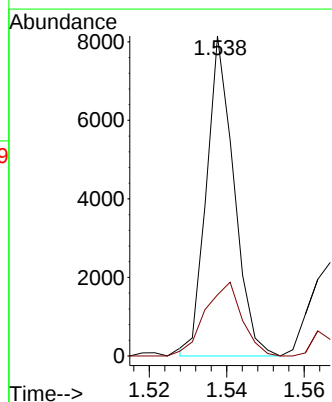
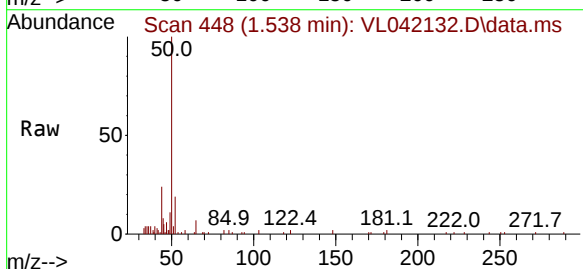
Instrument :
MSVOA_L
ClientSampleId :
IA1

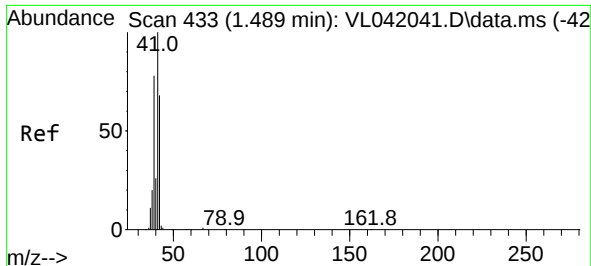
Tgt Ion: 51 Resp: 5935
Ion Ratio Lower Upper
51 100
67 19.2 13.7 20.5



#4
Chloromethane
Concen: 0.652 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

Tgt Ion: 50 Resp: 4002
Ion Ratio Lower Upper
50 100
52 19.1 25.4 38.0#





#9

Propene

Concen: 6.976 ppbv m

RT: 1.492 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042132.D

Acq: 10 Mar 2025 18:57

Instrument :

MSVOA_L

ClientSampleId :

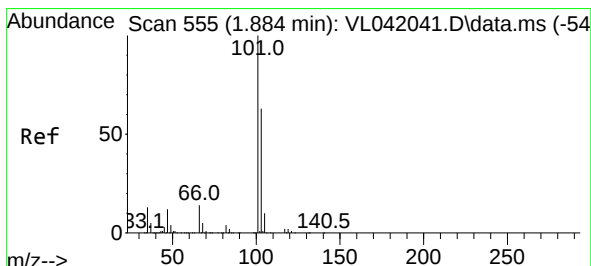
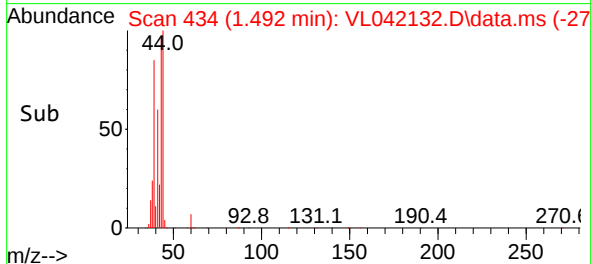
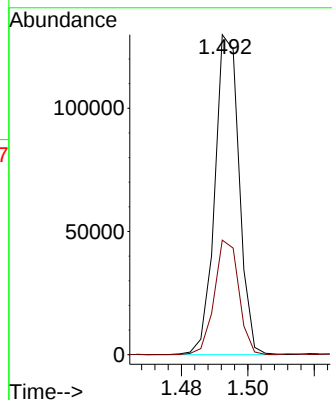
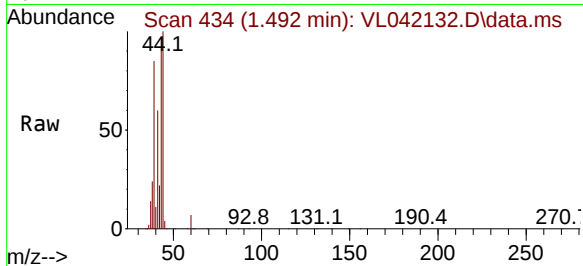
IA1

Tgt Ion: 41 Resp: 65925

Ion Ratio Lower Upper

41 100

42 63.5 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.280 ppbv m

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042132.D

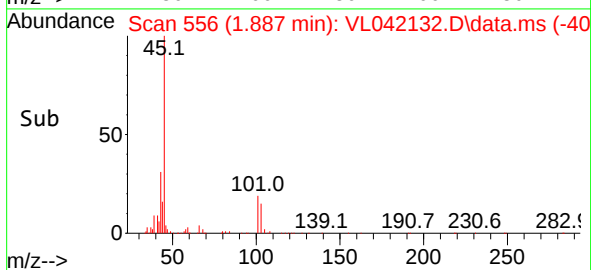
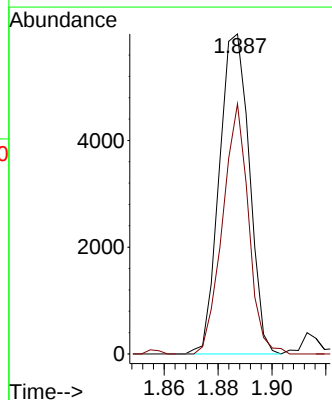
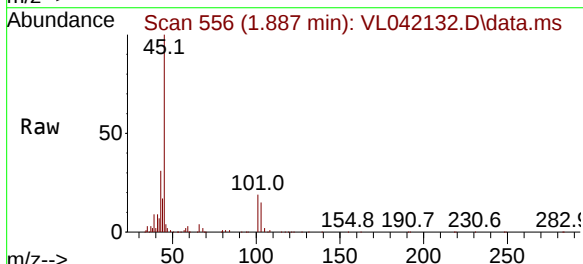
Acq: 10 Mar 2025 18:57

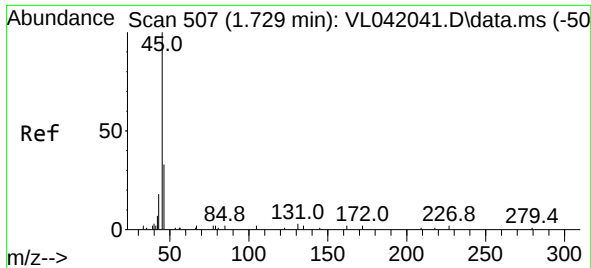
Tgt Ion:101 Resp: 4652

Ion Ratio Lower Upper

101 100

103 78.1 50.6 75.8#

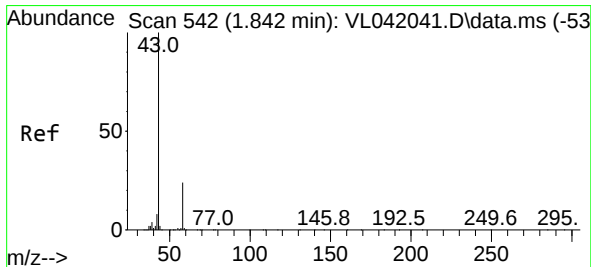
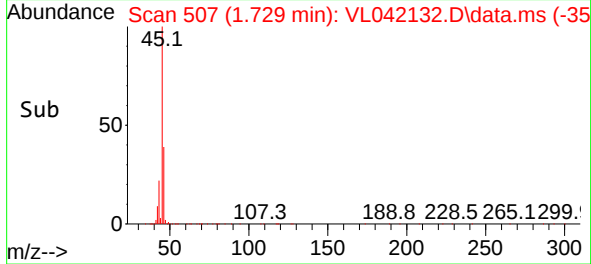
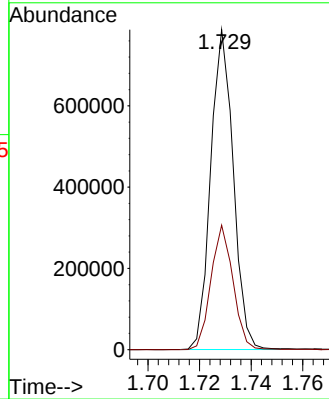
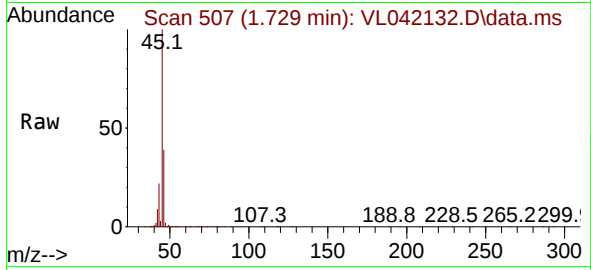




#13
Ethanol
Concen: 795.501 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

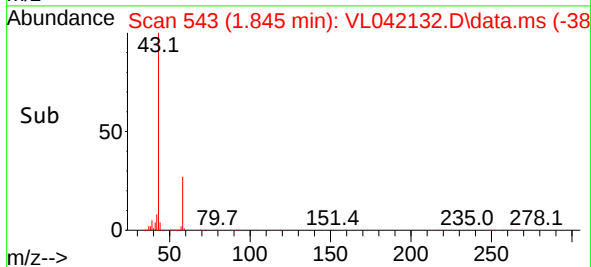
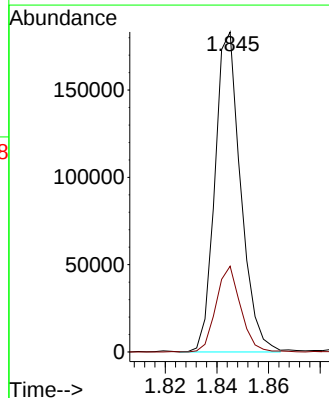
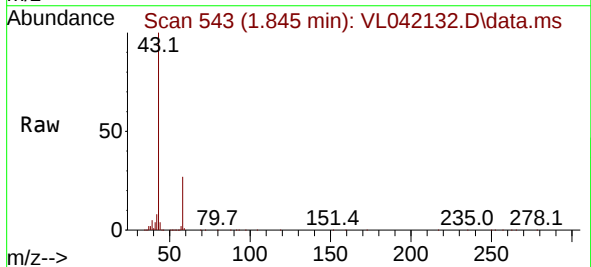
Instrument :
MSVOA_L
ClientSampleId :
IA1

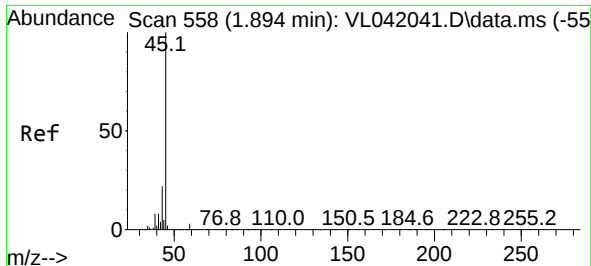
Tgt Ion: 45 Resp: 477214
Ion Ratio Lower Upper
45 100
46 38.4 17.1 68.3



#15
Acetone
Concen: 9.027 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

Tgt Ion: 43 Resp: 127232
Ion Ratio Lower Upper
43 100
58 25.6 20.7 31.1

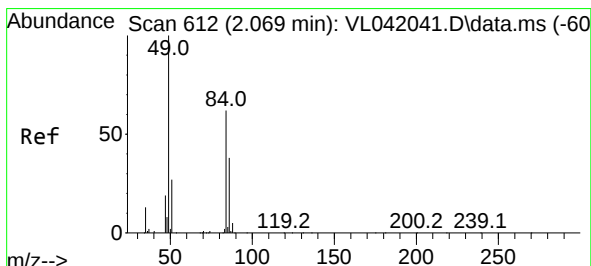
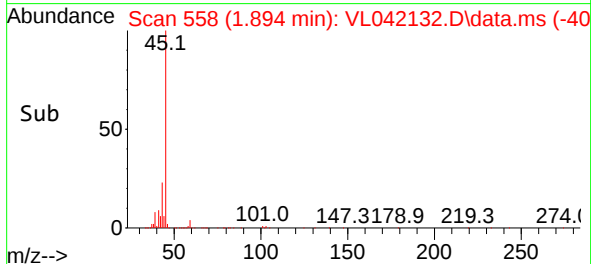
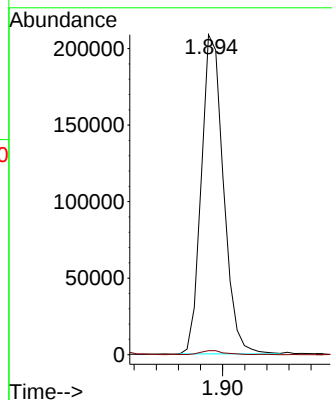
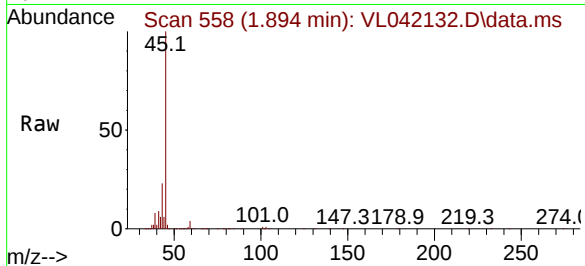




#19
Isopropyl Alcohol
Concen: 17.961 ppbv
RT: 1.894 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

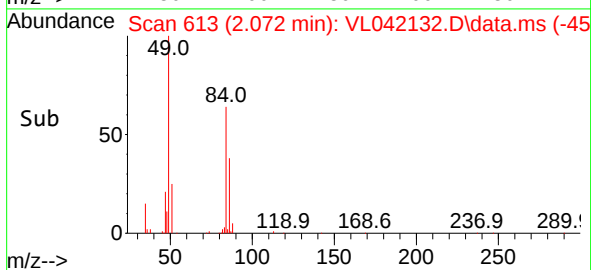
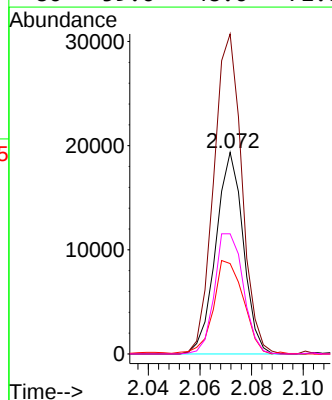
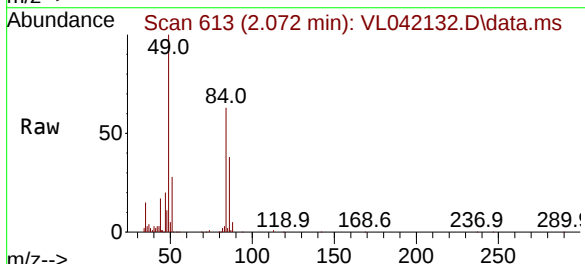
Instrument :
MSVOA_L
ClientSampleId :
IA1

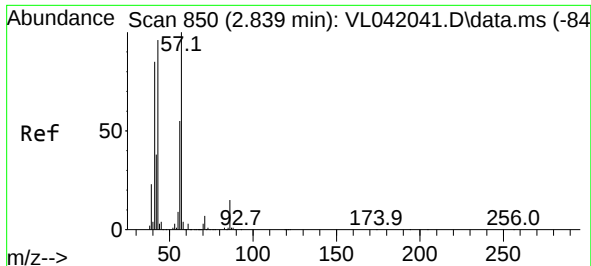
Tgt Ion: 45 Resp: 145417
Ion Ratio Lower Upper
45 100
58 22.4 35.3 52.9#



#20
Methylene Chloride
Concen: 2.680 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

Tgt Ion: 84 Resp: 14289
Ion Ratio Lower Upper
84 100
49 158.8 130.0 195.0
51 44.6 37.4 56.0
86 59.6 48.6 72.8

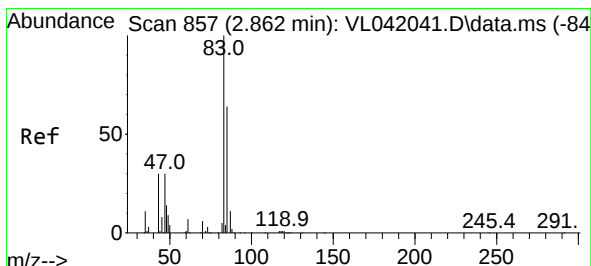
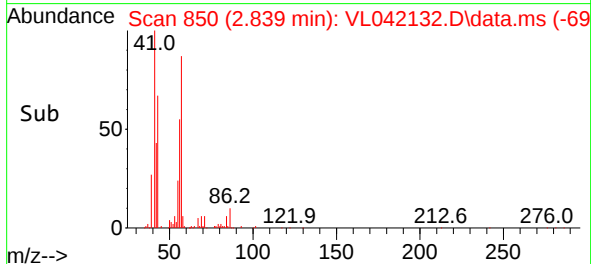
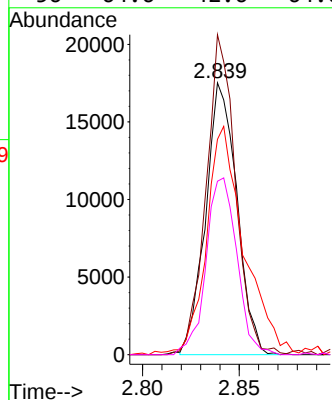
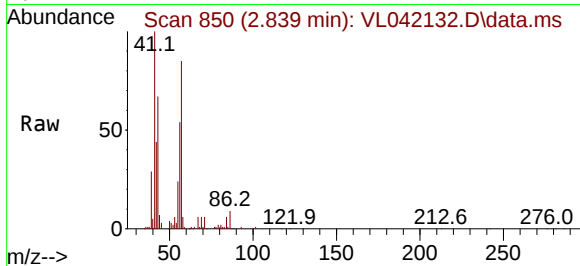




#26
Hexane
Concen: 0.863 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

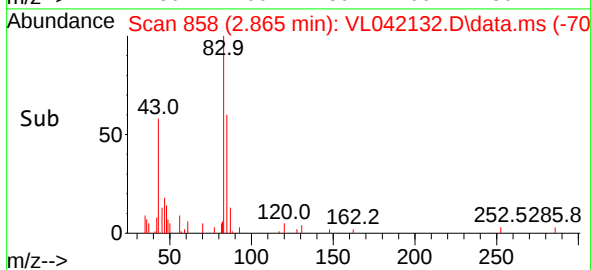
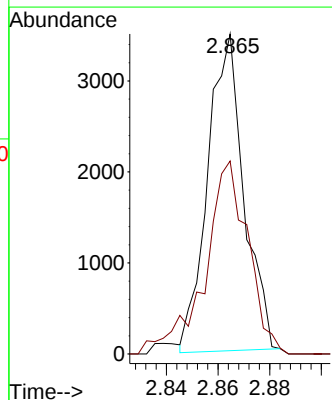
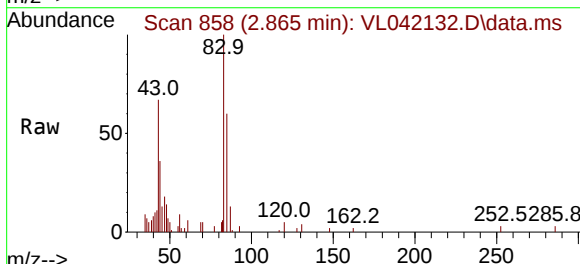
Instrument :
MSVOA_L
ClientSampleId :
IA1

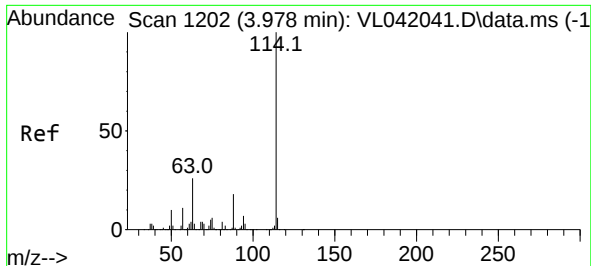
Tgt Ion: 57	Resp: 19683
Ion Ratio	Lower Upper
57 100	
41 112.5	70.6 106.0#
43 104.2	199.4 299.0#
56 64.6	42.6 64.0#



#29
Chloroform
Concen: 0.110 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.003 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

Tgt Ion: 83	Resp: 3392
Ion Ratio	Lower Upper
83 100	
85 59.4	51.2 76.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042132.D

Acq: 10 Mar 2025 18:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

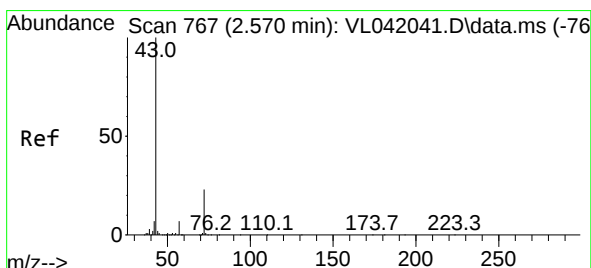
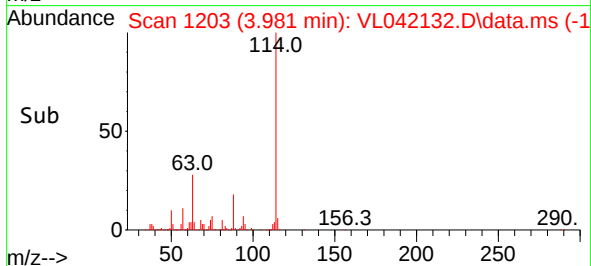
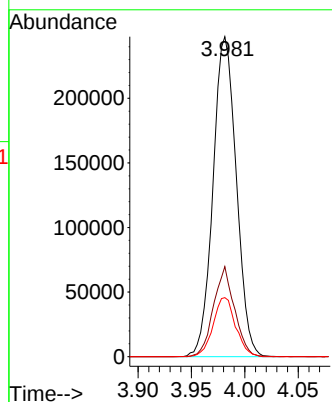
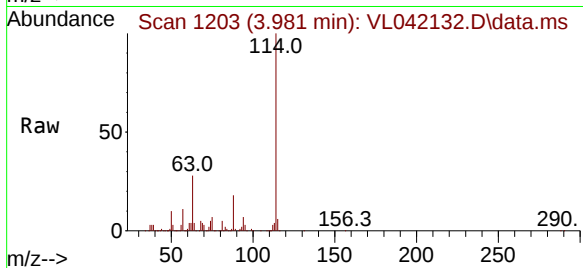
Tgt Ion:114 Resp: 375544

Ion Ratio Lower Upper

114 100

63 25.5 20.1 30.1

88 17.9 14.3 21.5



#34

2-Butanone

Concen: 0.323 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.003 min

Lab File: VL042132.D

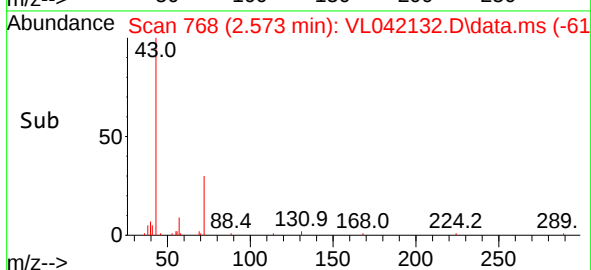
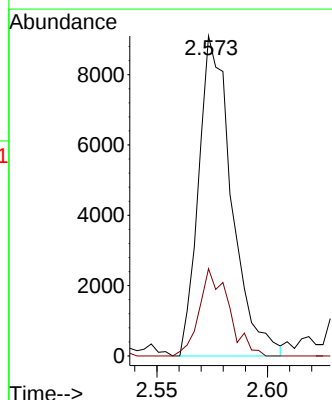
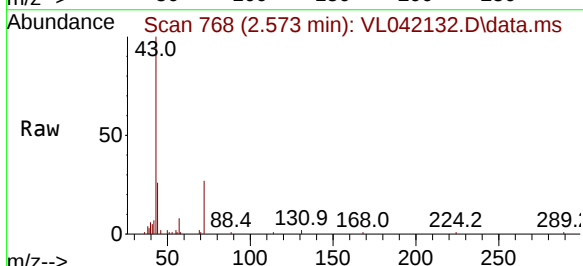
Acq: 10 Mar 2025 18:57

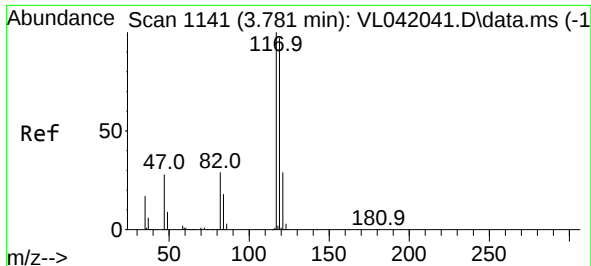
Tgt Ion: 43 Resp: 9462

Ion Ratio Lower Upper

43 100

72 24.4 18.5 27.7

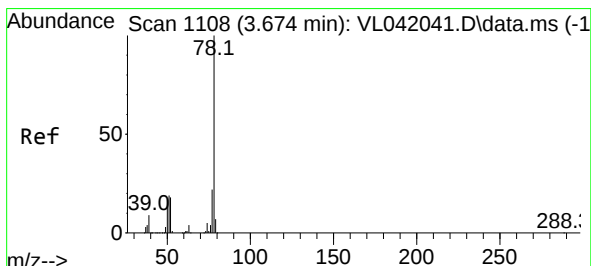
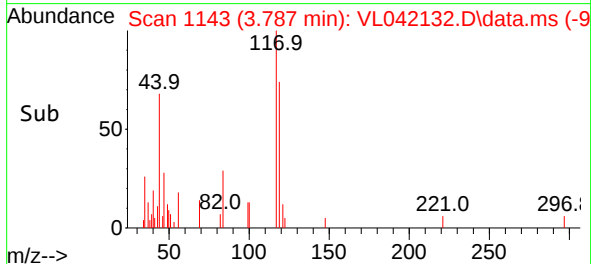
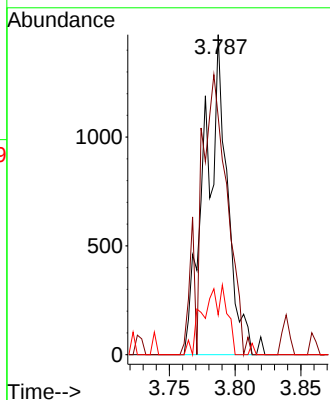
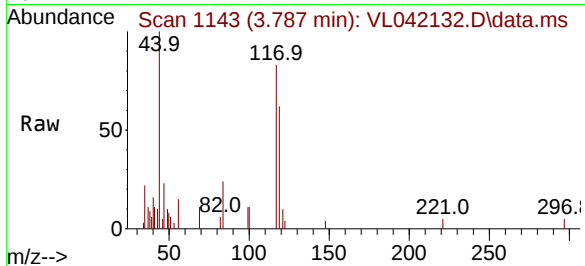




#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.787 min Scan# 1141
Delta R.T. 0.006 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

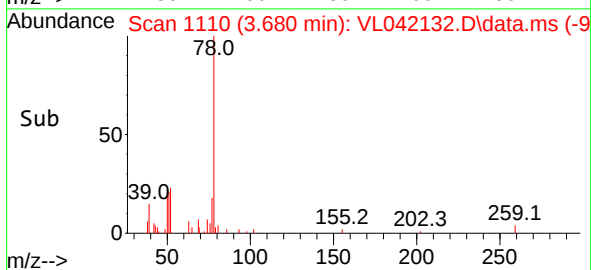
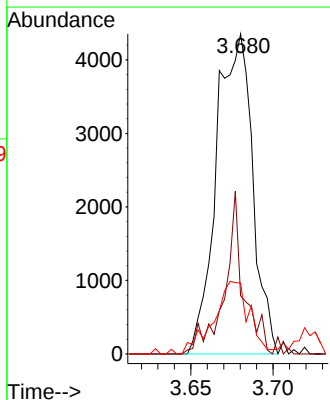
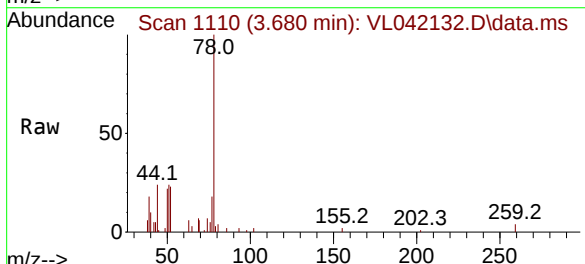
Instrument :
MSVOA_L
ClientSampleId :
IA1

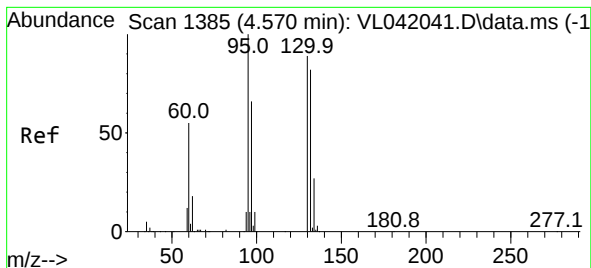
Tgt Ion:117 Resp: 1758
Ion Ratio Lower Upper
117 100
119 74.3 77.8 116.8#
121 12.4 23.4 35.0#



#36
Benzene
Concen: 0.169 ppbv m
RT: 3.680 min Scan# 1110
Delta R.T. 0.006 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

Tgt Ion: 78 Resp: 6649
Ion Ratio Lower Upper
78 100
77 18.2 17.7 26.5
50 22.1 13.9 20.9#





#38

Trichloroethene

Concen: 0.116 ppbv m

RT: 4.570 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL042132.D

Acq: 10 Mar 2025 18:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:130 Resp: 1858

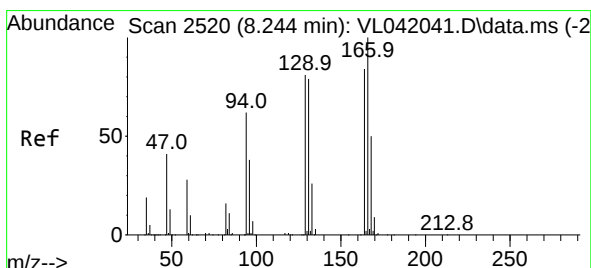
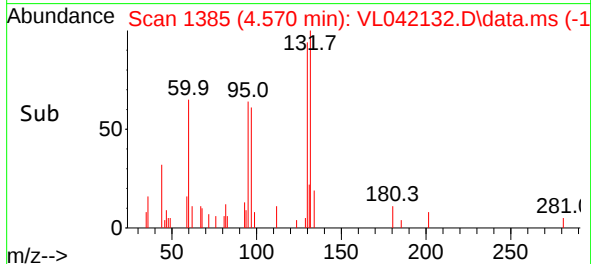
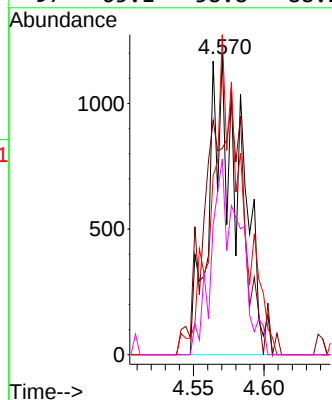
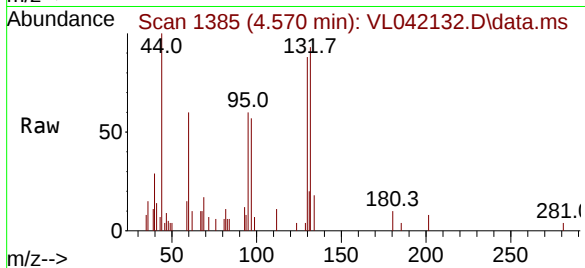
Ion Ratio Lower Upper

130 100

95 68.6 89.5 134.3#

132 106.5 73.8 110.6

97 65.1 58.8 88.2



#52

Tetrachloroethene

Concen: 5.624 ppbv

RT: 8.250 min Scan# 2522

Delta R.T. 0.006 min

Lab File: VL042132.D

Acq: 10 Mar 2025 18:57

Tgt Ion:164 Resp: 75686

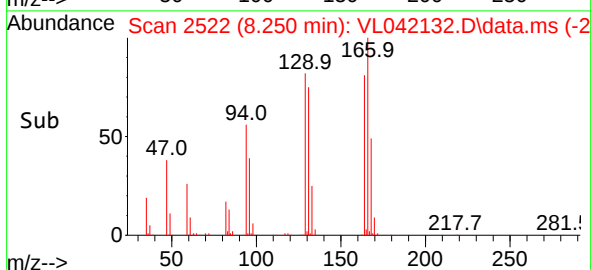
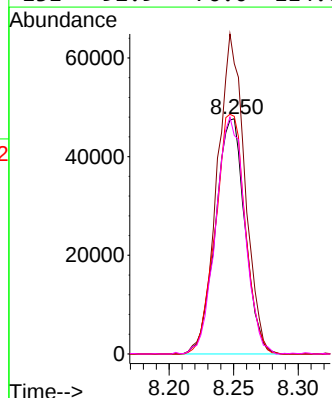
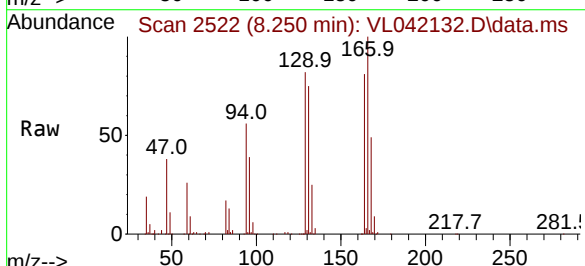
Ion Ratio Lower Upper

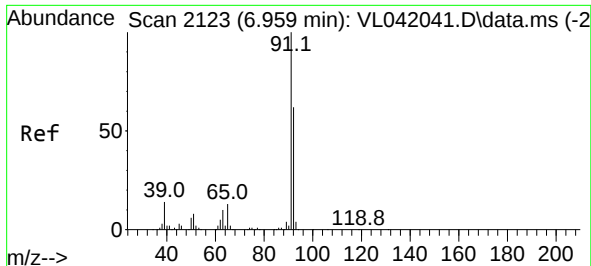
164 100

166 123.5 95.7 143.5

129 101.0 77.1 115.7

131 92.9 76.0 114.0

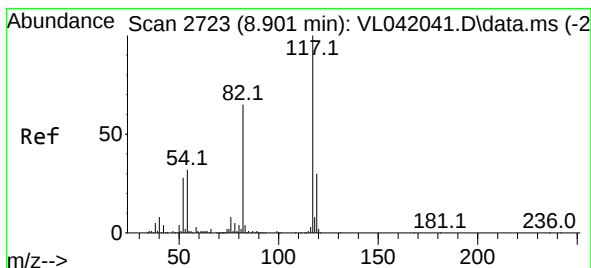
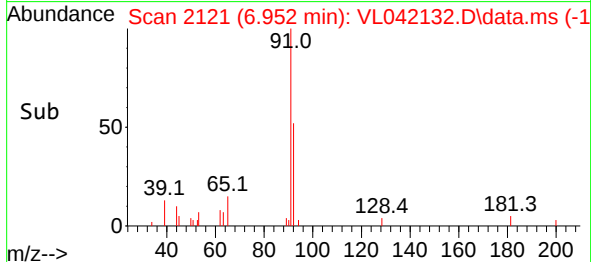
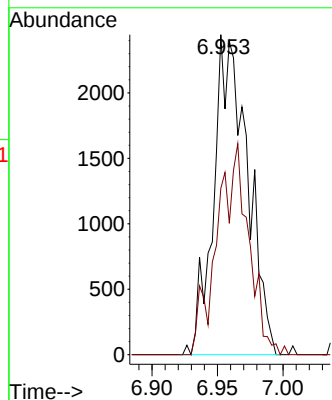
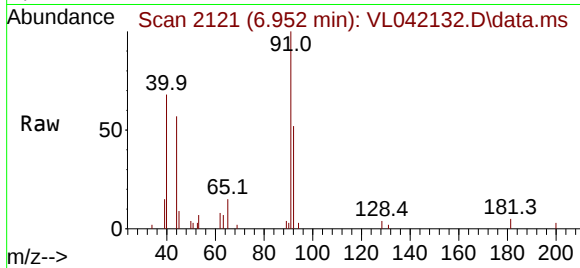




#53
Toluene
Concen: 0.100 ppbv m
RT: 6.952 min Scan# 2121
Delta R.T. -0.007 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

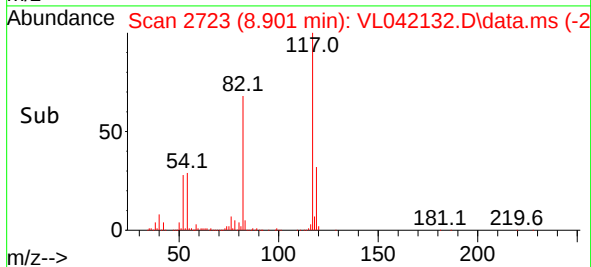
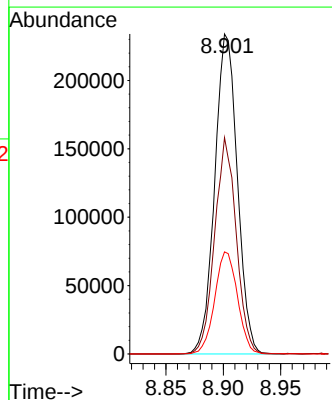
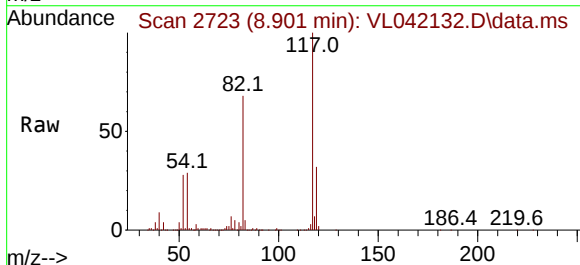
Instrument :
MSVOA_L
ClientSampleId :
IA1

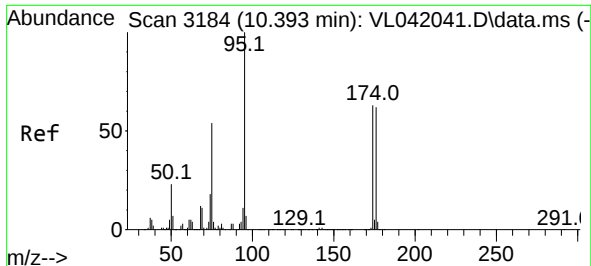
Tgt Ion: 91 Resp: 4407
Ion Ratio Lower Upper
91 100
92 62.1 49.0 73.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

Tgt Ion: 117 Resp: 321362
Ion Ratio Lower Upper
117 100
82 64.4 55.0 82.6
119 32.1 25.9 38.9

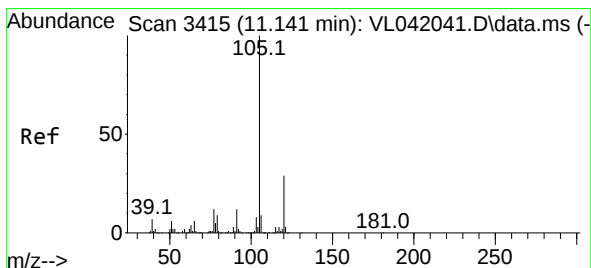
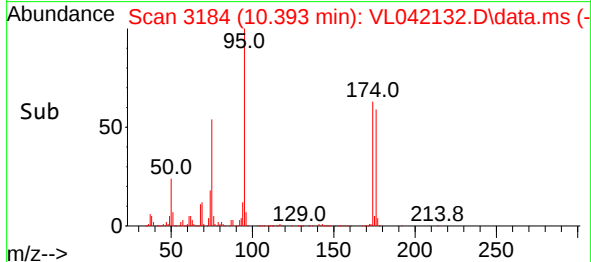
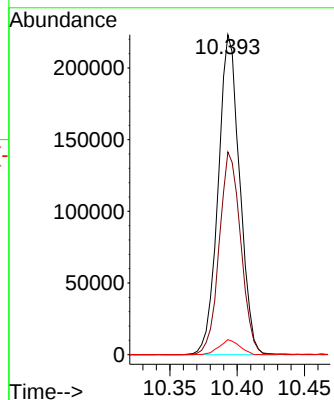
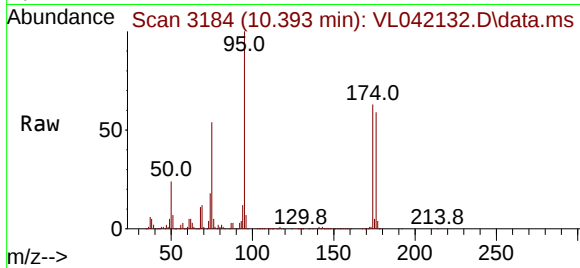




#68
1-Bromo-4-Fluorobenzene
Concen: 10.009 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

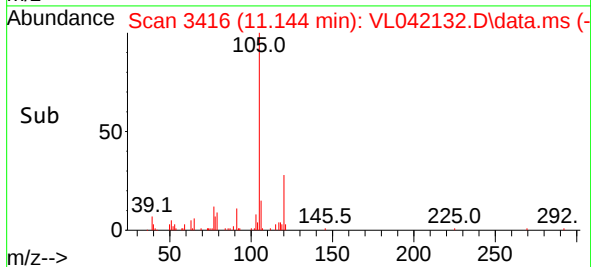
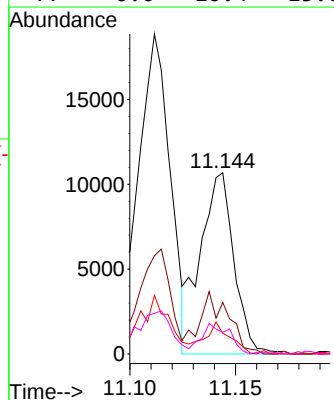
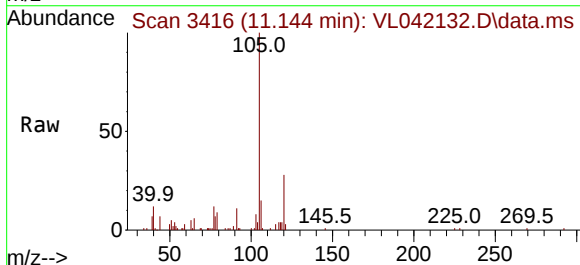
Instrument :
MSVOA_L
ClientSampleId :
IA1

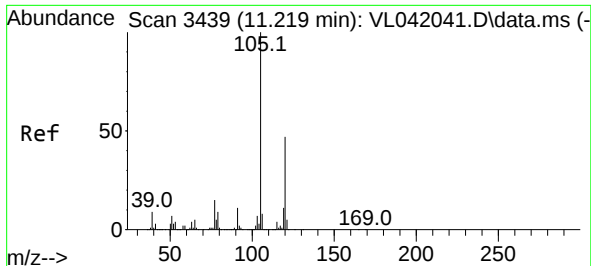
Tgt Ion: 95 Resp: 247451
Ion Ratio Lower Upper
95 100
174 63.6 51.8 77.6
175 4.5 3.9 5.9



#72
4-Ethyltoluene
Concen: 0.205 ppbv m
RT: 11.144 min Scan# 3416
Delta R.T. 0.003 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

Tgt Ion: 105 Resp: 11863
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1#
91 0.0 10.2 15.4#
77 0.0 10.4 15.6#

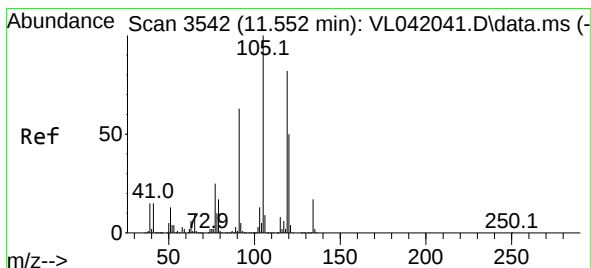
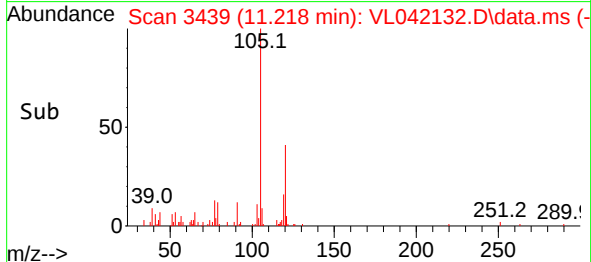
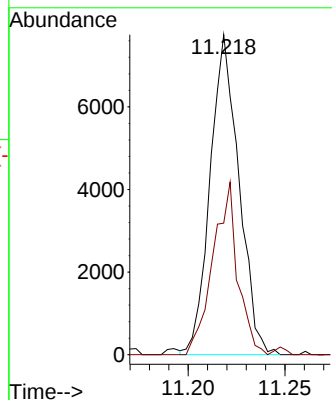
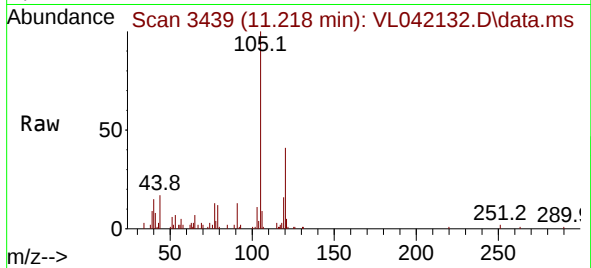




#73
 1,3,5-Trimethylbenzene
 Concen: 0.160 ppbv
 RT: 11.218 min Scan# 3439
 Delta R.T. -0.000 min
 Lab File: VL042132.D
 Acq: 10 Mar 2025 18:57

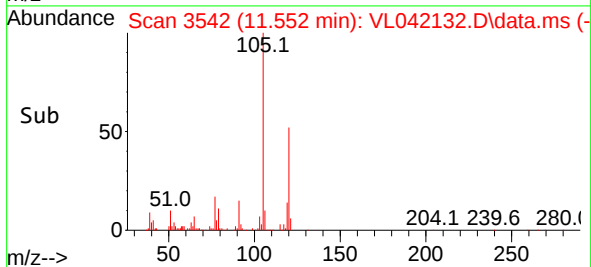
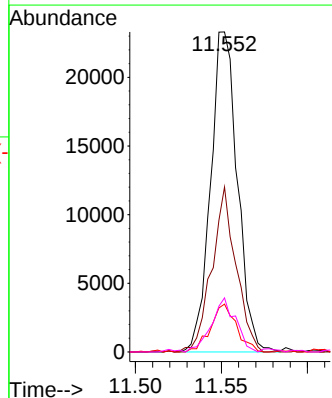
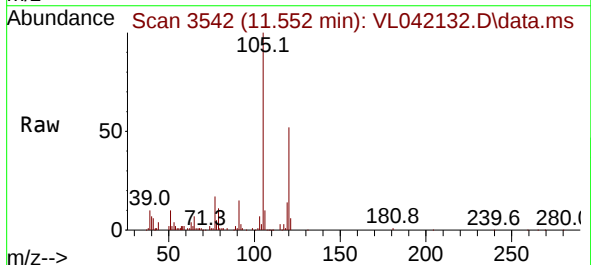
Instrument :
 MSVOA_1
 ClientSampleId :
 IA1

Tgt Ion:105 Resp: 8012
 Ion Ratio Lower Upper
 105 100
 120 45.7 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.449 ppbv
 RT: 11.552 min Scan# 3542
 Delta R.T. -0.000 min
 Lab File: VL042132.D
 Acq: 10 Mar 2025 18:57

Tgt Ion:105 Resp: 25333
 Ion Ratio Lower Upper
 105 100
 120 51.5 40.2 60.2
 91 14.6 51.4 77.2#
 77 20.9 20.1 30.1



Report of Analysis

Client:	GFE LLC	Date Collected:	03/07/25
Project:	3555 Victory Blvd, Staten Island NY	Date Received:	03/07/25
Client Sample ID:	SV2	SDG No.:	Q1533
Lab Sample ID:	Q1533-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042137.D	4		03/10/25 21:38	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.32	1.72		0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	17.8	121		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	11.1			65 - 135	111%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000		2.8			
540-36-3	1,4-Difluorobenzene	370000		3.978			
3114-55-4	Chlorobenzene-d5	340000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042137.D
 Acq On : 10 Mar 2025 21:38
 Operator : SY/MD
 Sample : Q1533-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Mar 11 01:32:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

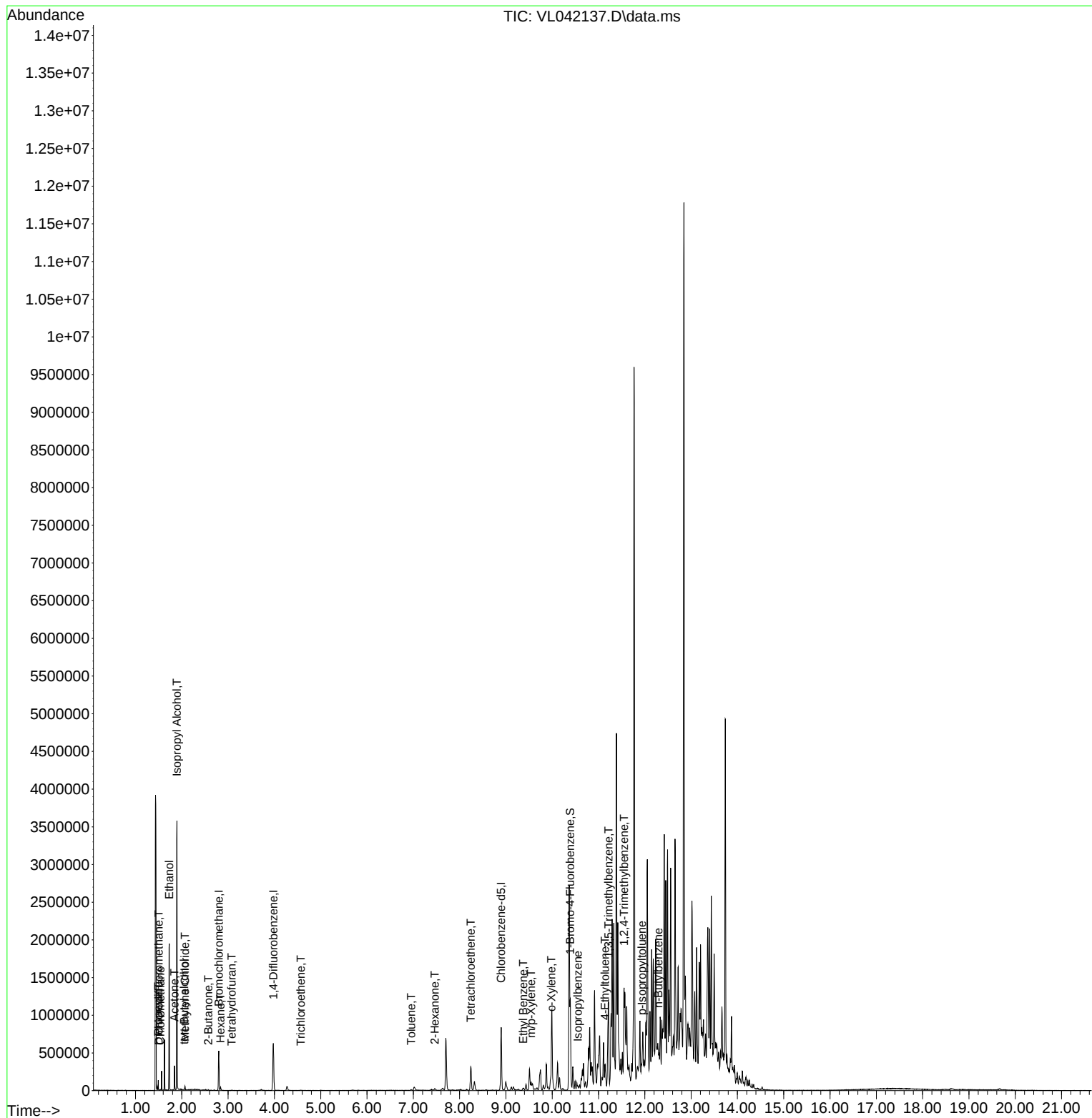
Internal Standards						
1) Bromochloromethane	2.800	49	157696	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	369982	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	340317	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	289970	11.075	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	2295	0.140	ppbv	96
4) Chloromethane	1.538	50	2456	0.405	ppbv	99
9) Propene	1.493	41	9511m	1.019	ppbv	
13) Ethanol	1.729	45	716267	1208.441	ppbv	93
15) Acetone	1.842	43	134002	9.622	ppbv	99
17) tert-Butyl alcohol	2.053	59	3033	0.174	ppbv #	93
19) Isopropyl Alcohol	1.894	45	1548394	193.561	ppbv #	33
20) Methylene Chloride	2.069	84	7260	1.378	ppbv	96
26) Hexane	2.839	57	7486	0.332	ppbv #	38
34) 2-Butanone	2.570	43	7508	0.260	ppbv	96
38) Trichloroethene	4.571	130	1260m	0.080	ppbv	
41) Tetrahydrofuran	3.079	42	1948	0.114	ppbv #	78
51) 2-Hexanone	7.461	43	16477m	0.642	ppbv	
52) Tetrachloroethene	8.241	164	58846	4.438	ppbv	98
53) Toluene	6.953	91	7497m	0.173	ppbv	
58) Ethyl Benzene	9.371	91	14280	0.228	ppbv	99
59) m/p-Xylene	9.542	91	50664	1.016	ppbv #	100
60) o-Xylene	9.979	91	34055	0.679	ppbv	96
62) Isopropylbenzene	10.552	105	14518	0.193	ppbv	95
69) p-Isopropyltoluene	11.940	119	43993	0.566	ppbv	95
70) n-Butylbenzene	12.293	91	117905	1.485	ppbv #	68
72) 4-Ethyltoluene	11.138	105	93376m	1.525	ppbv	
73) 1,3,5-Trimethylbenzene	11.215	105	106051	1.997	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	448244	7.496	ppbv #	62

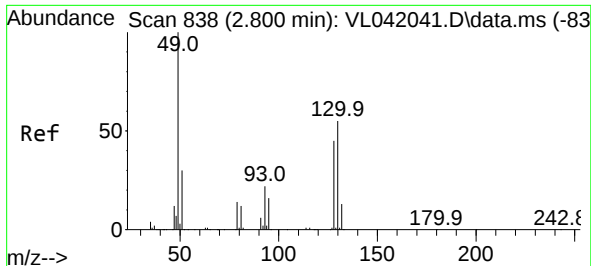
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042137.D
Acq On : 10 Mar 2025 21:38
Operator : SY/MD
Sample : Q1533-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Mar 11 01:32:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

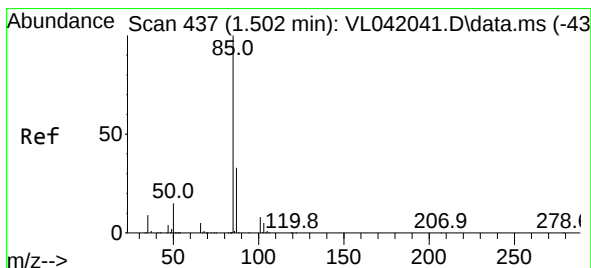
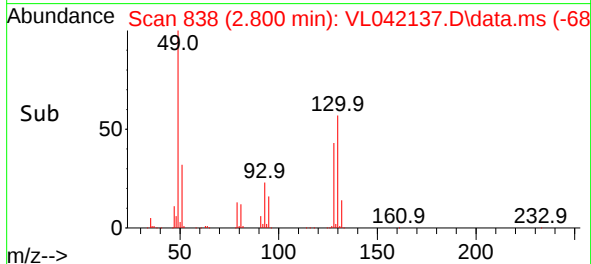
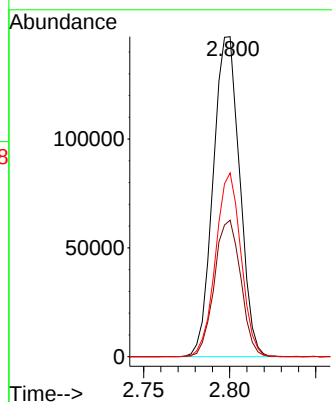
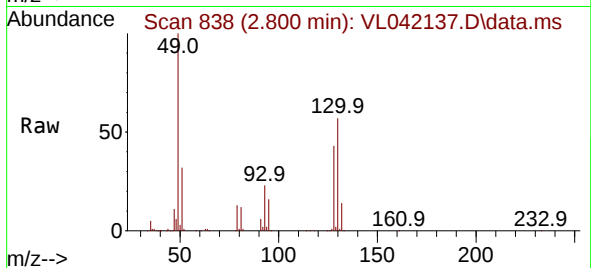




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

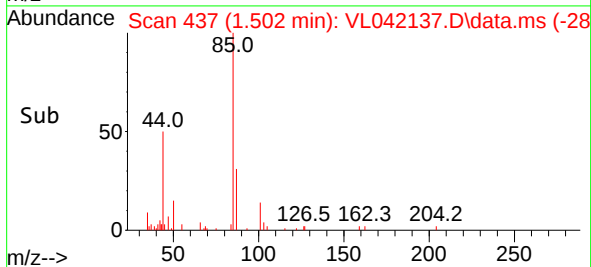
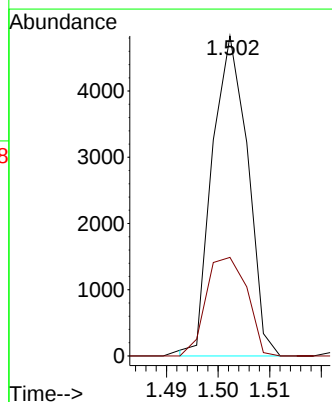
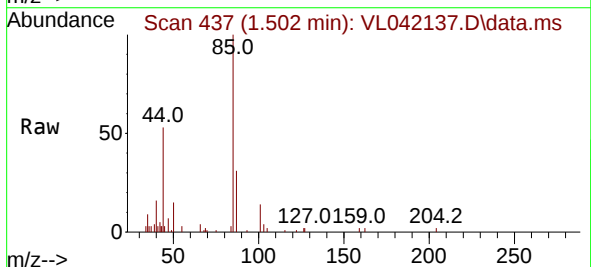
Instrument :
MSVOA_L
ClientSampleId :
SV2

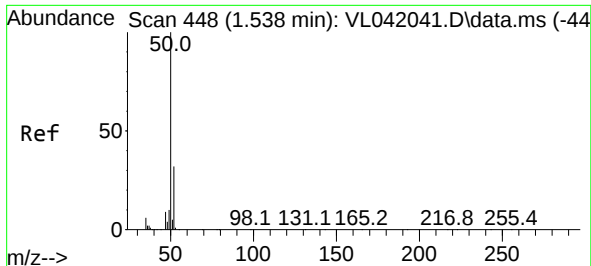
Tgt Ion: 49 Resp: 157696
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.8
130 55.0 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.140 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 85 Resp: 2295
Ion Ratio Lower Upper
85 100
87 30.8 26.4 39.6

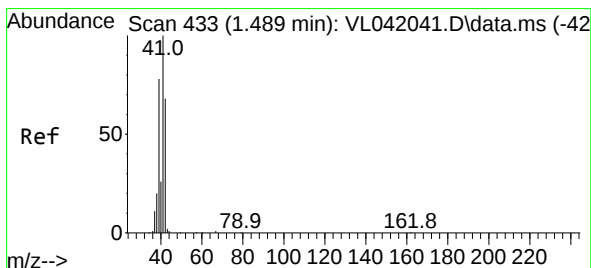
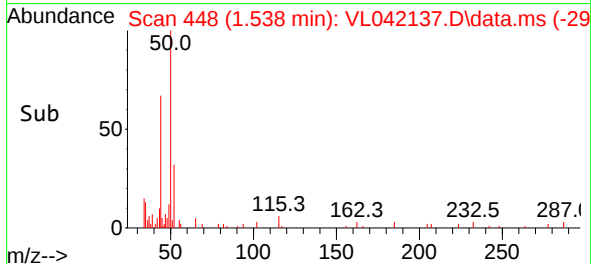
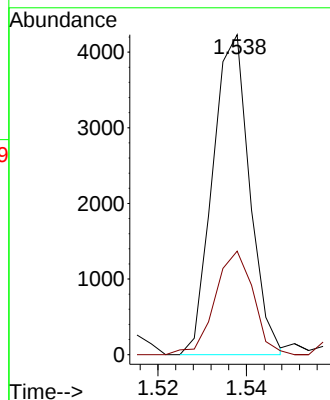
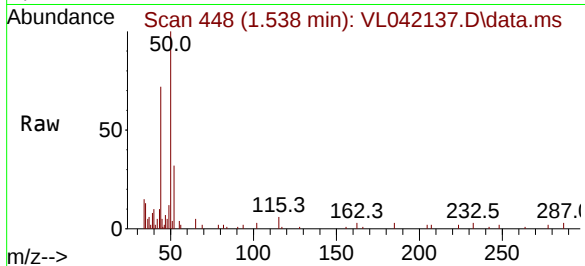




#4
Chloromethane
Concen: 0.405 ppbv
RT: 1.538 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

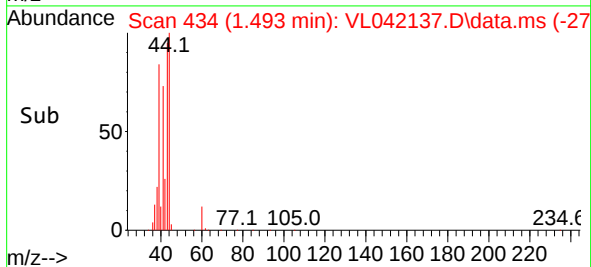
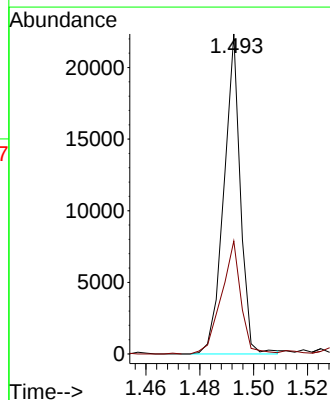
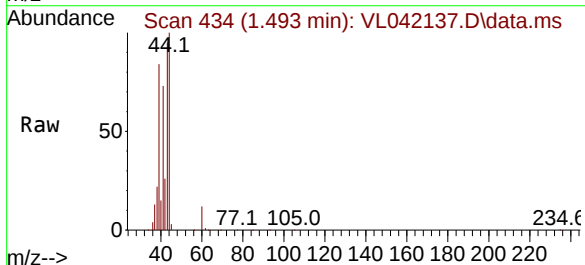
Instrument :
MSVOA_L
ClientSampleId :
SV2

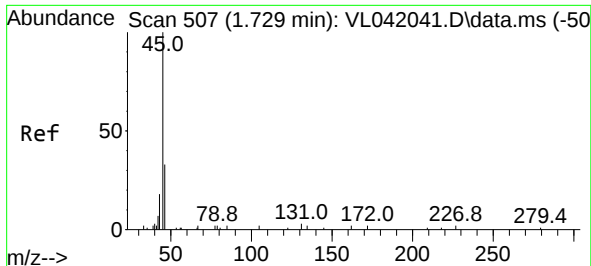
Tgt Ion: 50 Resp: 2456
Ion Ratio Lower Upper
50 100
52 31.1 25.4 38.0



#9
Propene
Concen: 1.019 ppbv m
RT: 1.493 min Scan# 434
Delta R.T. 0.003 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 41 Resp: 9511
Ion Ratio Lower Upper
41 100
42 189.6 55.8 83.6#

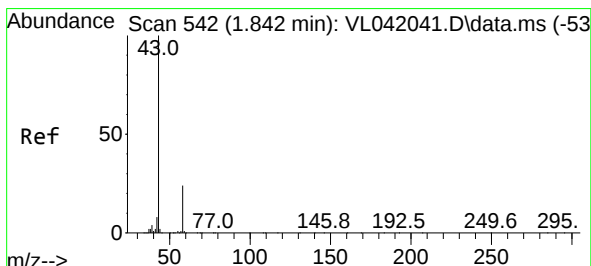
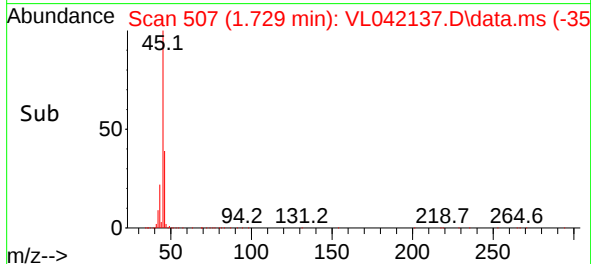
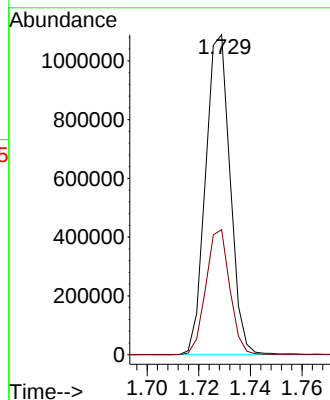
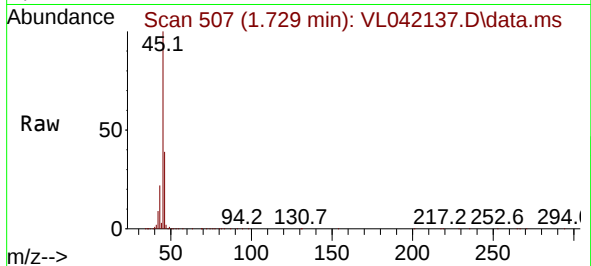




#13
Ethanol
Concen: 1208.441 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

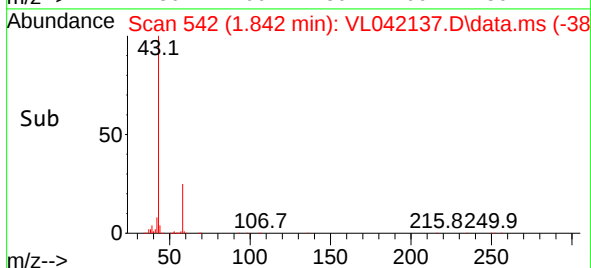
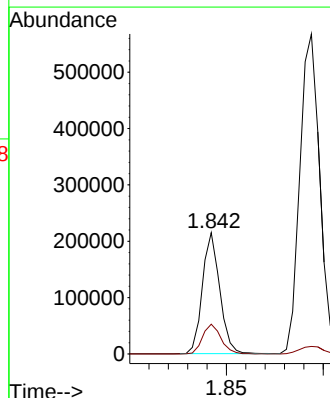
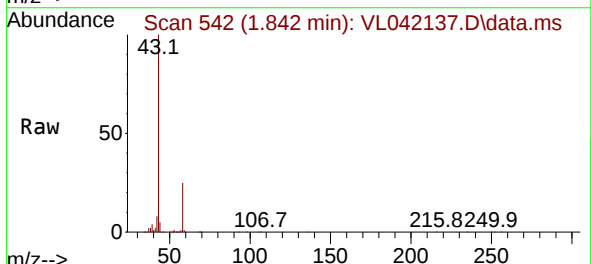
Instrument :
MSVOA_L
ClientSampleId :
SV2

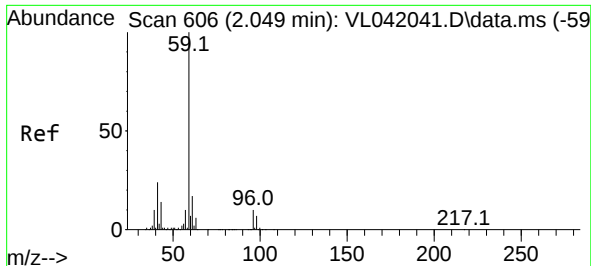
Tgt Ion: 45 Resp: 716267
Ion Ratio Lower Upper
45 100
46 38.4 17.1 68.3



#15
Acetone
Concen: 9.622 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 43 Resp: 134002
Ion Ratio Lower Upper
43 100
58 26.2 20.7 31.1





#17

tert-Butyl alcohol

Concen: 0.174 ppbv

RT: 2.053 min Scan# 606

Delta R.T. 0.003 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

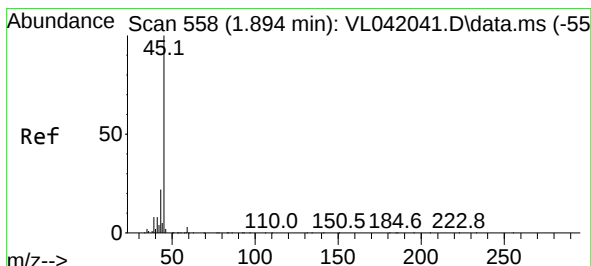
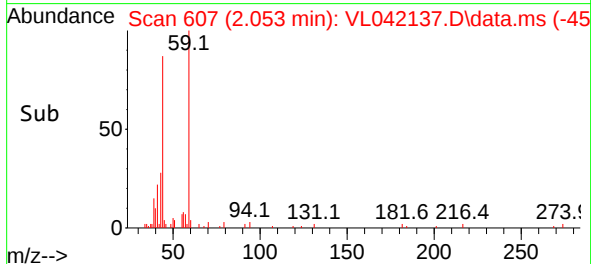
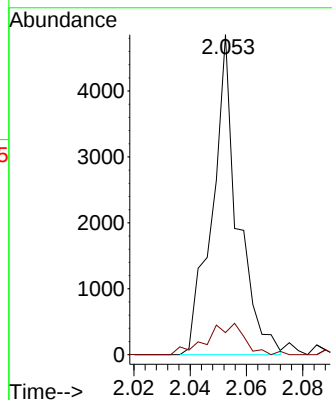
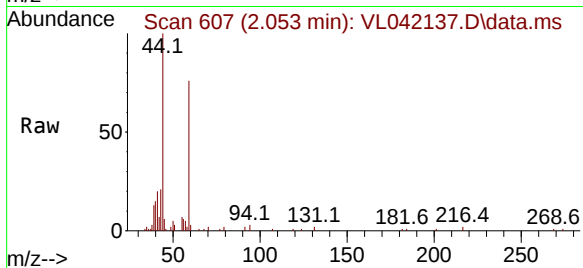
SV2

Tgt Ion: 59 Resp: 3033

Ion Ratio Lower Upper

59 100

57 14.4 9.3 13.9#



#19

Isopropyl Alcohol

Concen: 193.561 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.000 min

Lab File: VL042137.D

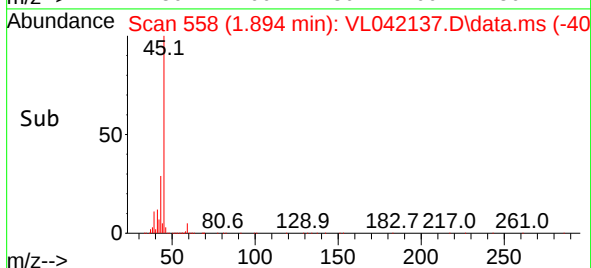
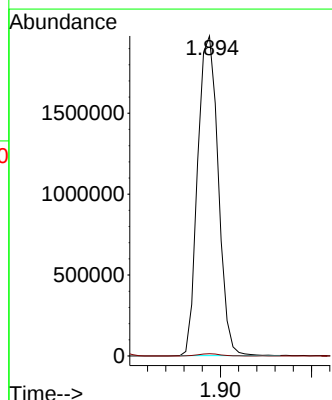
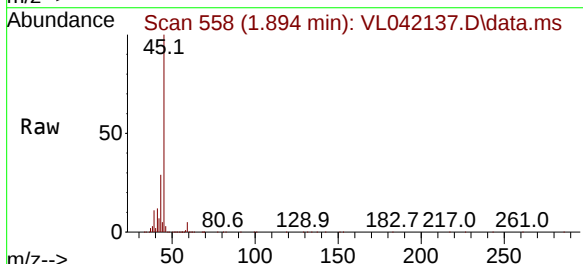
Acq: 10 Mar 2025 21:38

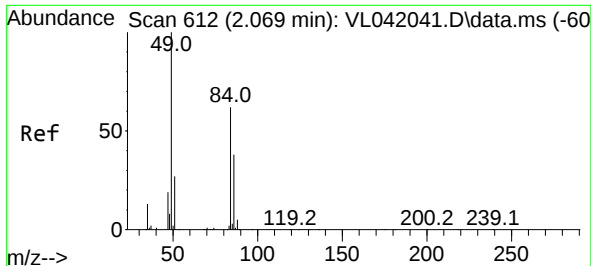
Tgt Ion: 45 Resp: 1548394

Ion Ratio Lower Upper

45 100

58 0.8 35.3 52.9#



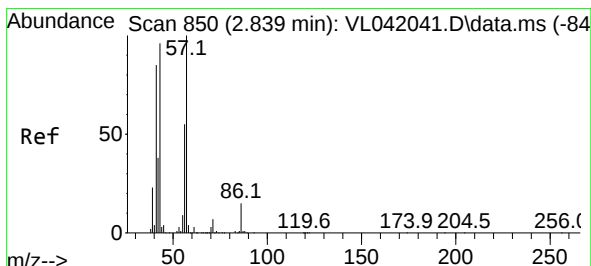
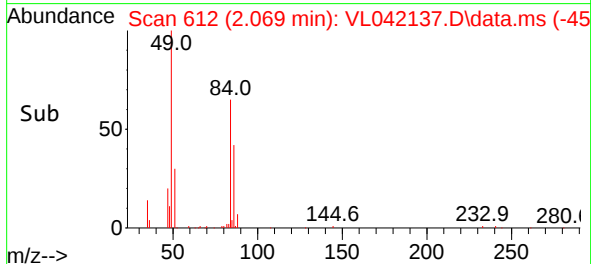
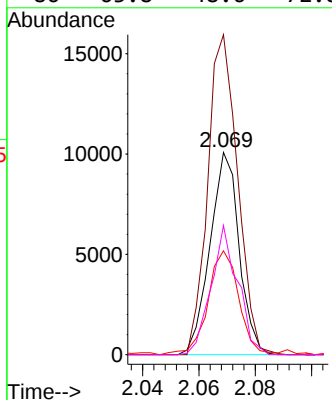
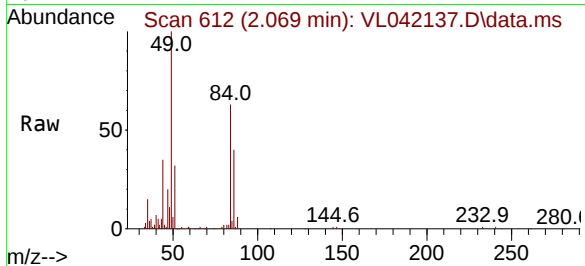


#20
Methylene Chloride
Concen: 1.378 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 84 Resp: 7260

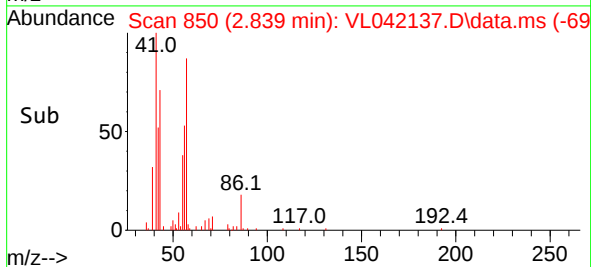
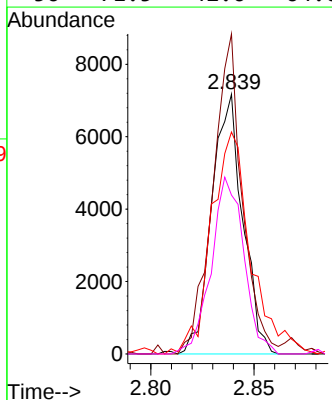
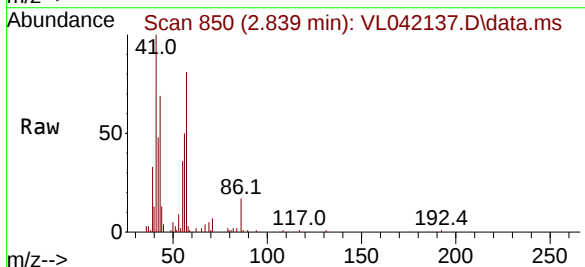
Ion	Ratio	Lower	Upper
84	100		
49	158.2	130.0	195.0
51	50.5	37.4	56.0
86	63.8	48.6	72.8

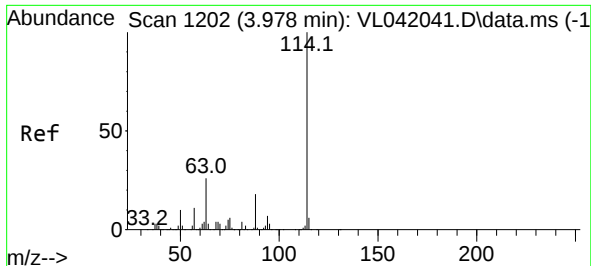


#26
Hexane
Concen: 0.332 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 57 Resp: 7486

Ion	Ratio	Lower	Upper
57	100		
41	121.1	70.6	106.0#
43	112.1	199.4	299.0#
56	71.5	42.6	64.0#

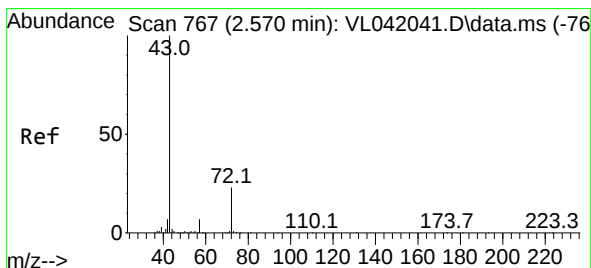
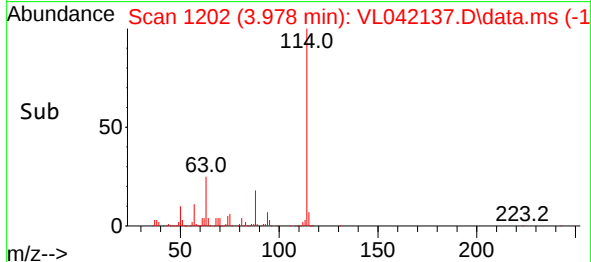
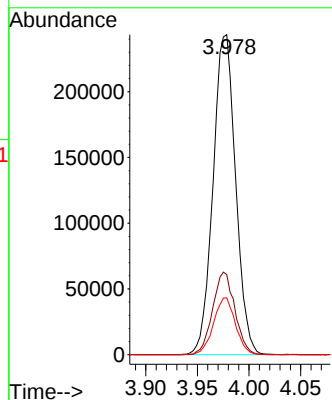
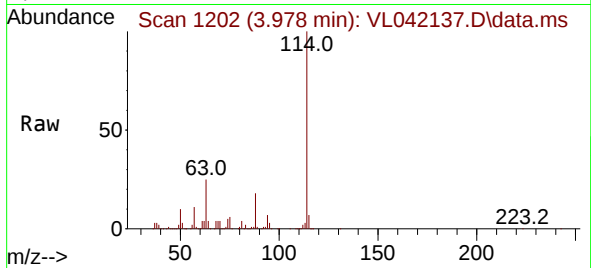




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

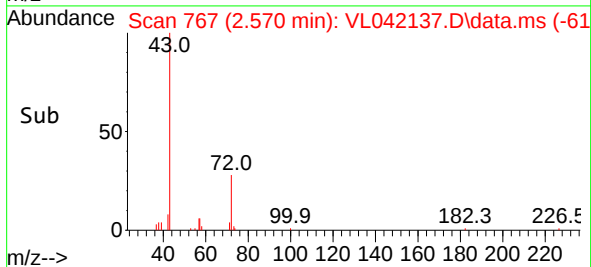
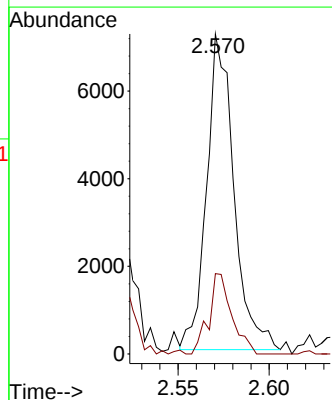
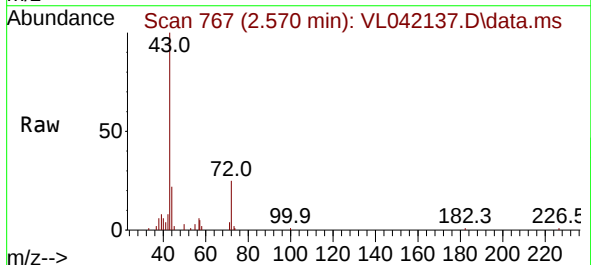
Instrument :
MSVOA_L
ClientSampleId :
SV2

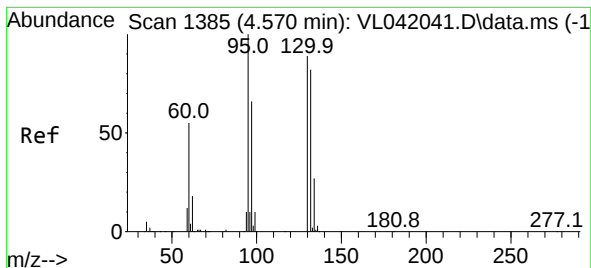
Tgt Ion:114 Resp: 369982
Ion Ratio Lower Upper
114 100
63 25.5 20.1 30.1
88 17.3 14.3 21.5



#34
2-Butanone
Concen: 0.260 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 43 Resp: 7508
Ion Ratio Lower Upper
43 100
72 21.4 18.5 27.7





#38

Trichloroethene

Concen: 0.080 ppbv m

RT: 4.571 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:130 Resp: 1260

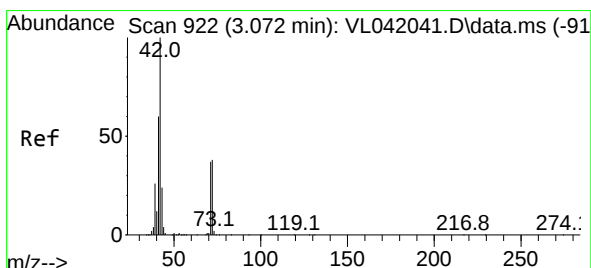
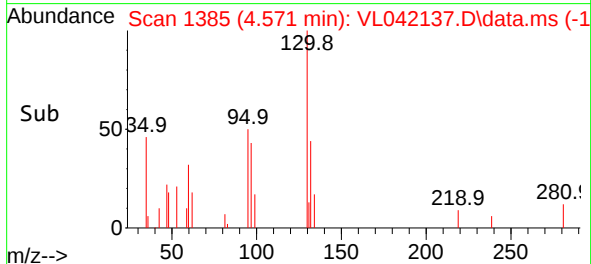
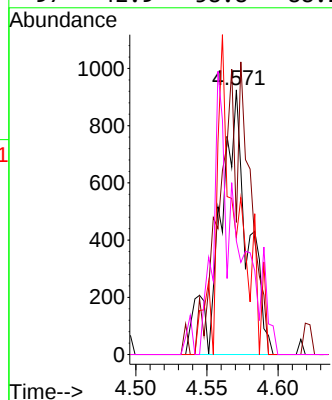
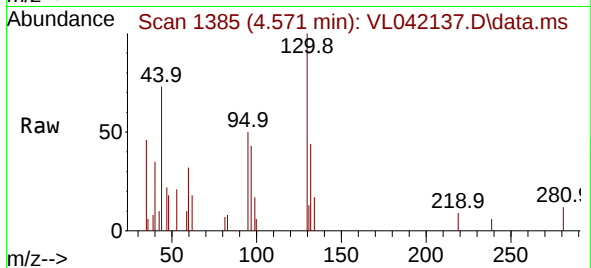
Ion Ratio Lower Upper

130 100

95 49.9 89.5 134.3#

132 44.3 73.8 110.6#

97 42.9 58.8 88.2#



#41

Tetrahydrofuran

Concen: 0.114 ppbv

RT: 3.079 min Scan# 924

Delta R.T. 0.007 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

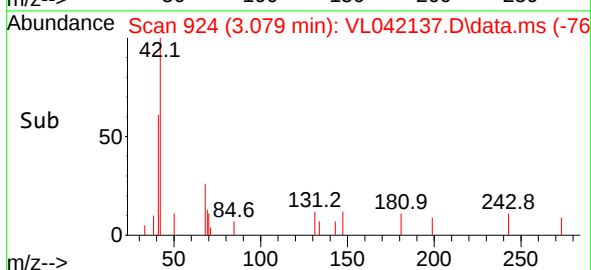
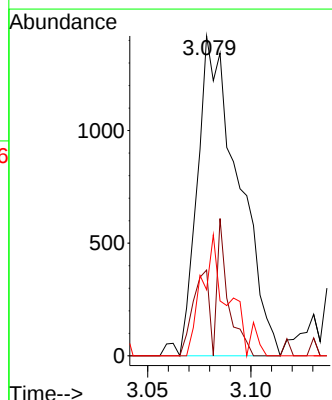
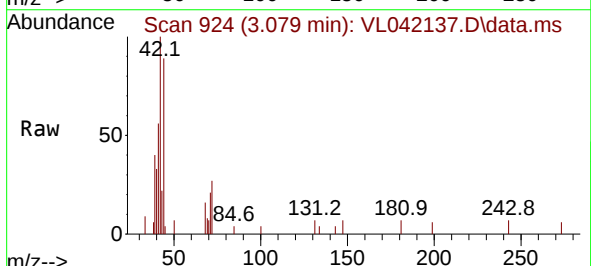
Tgt Ion: 42 Resp: 1948

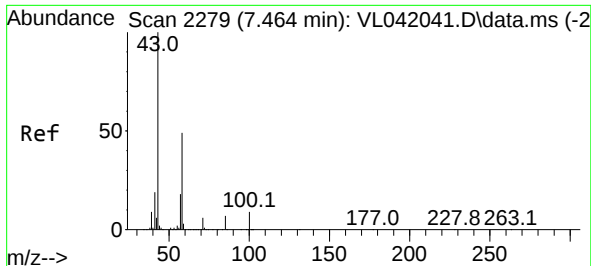
Ion Ratio Lower Upper

42 100

72 22.4 30.2 45.2#

71 24.7 28.2 42.4#

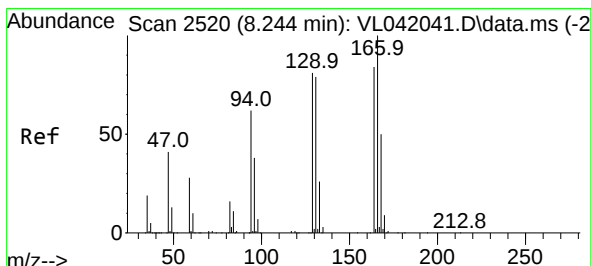
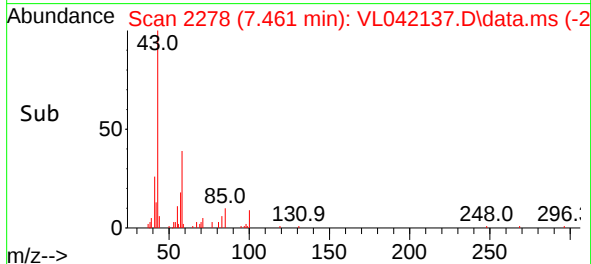
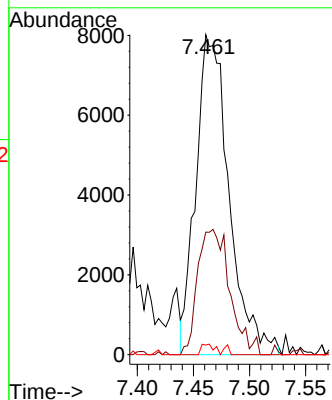
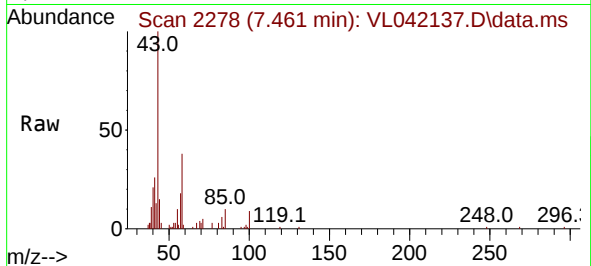




#51
2-Hexanone
Concen: 0.642 ppbv m
RT: 7.461 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

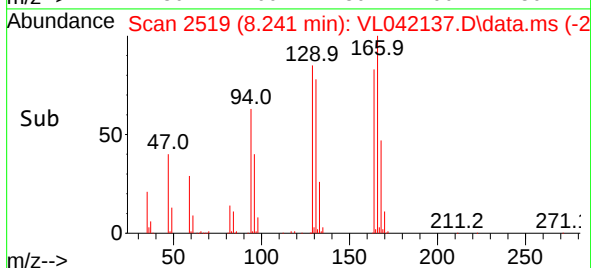
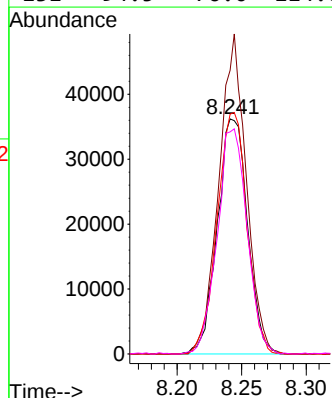
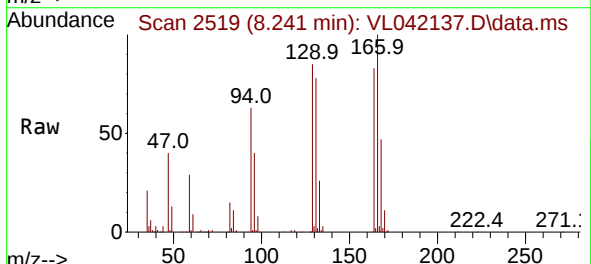
Instrument :
MSVOA_L
ClientSampleId :
SV2

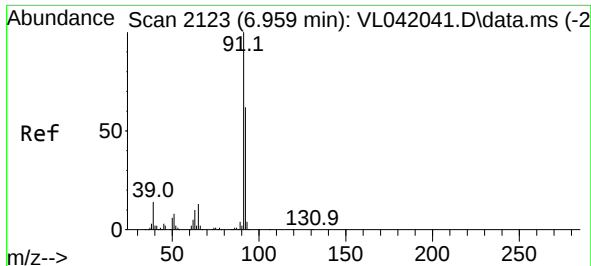
Tgt Ion: 43 Resp: 16477
Ion Ratio Lower Upper
43 100
58 38.1 39.0 58.6#
98 1.7 0.1 0.1#



#52
Tetrachloroethene
Concen: 4.438 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 164 Resp: 58846
Ion Ratio Lower Upper
164 100
166 120.7 95.7 143.5
129 102.0 77.1 115.7
131 94.5 76.0 114.0

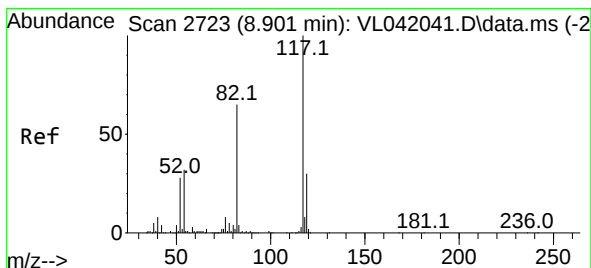
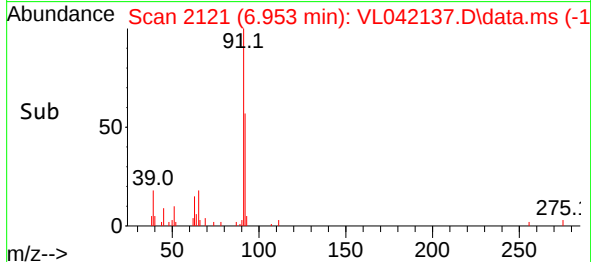
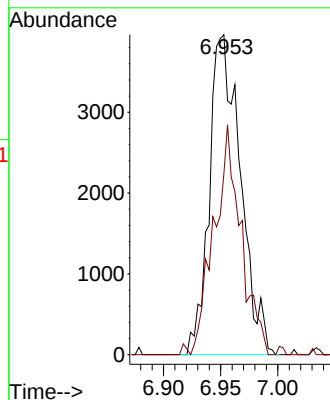
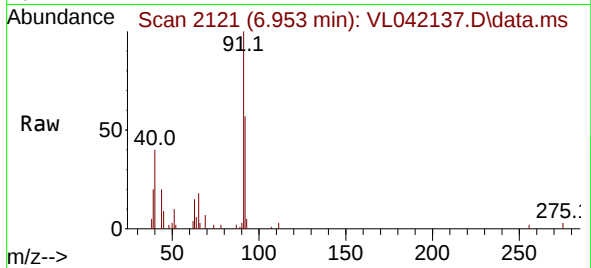




#53
Toluene
Concen: 0.173 ppbv m
RT: 6.953 min Scan# 2121
Delta R.T. -0.006 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

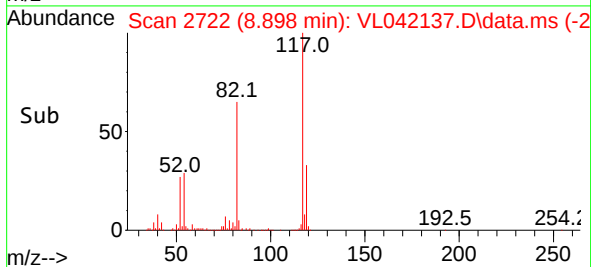
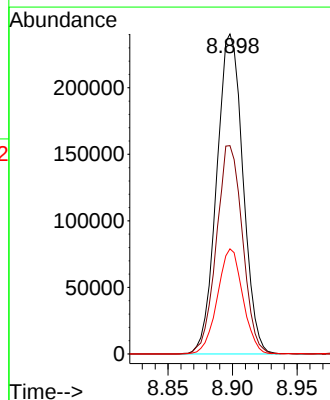
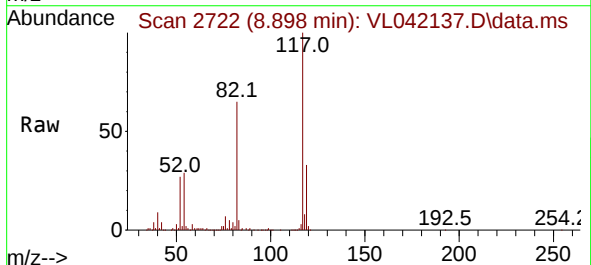
Instrument :
MSVOA_L
ClientSampleId :
SV2

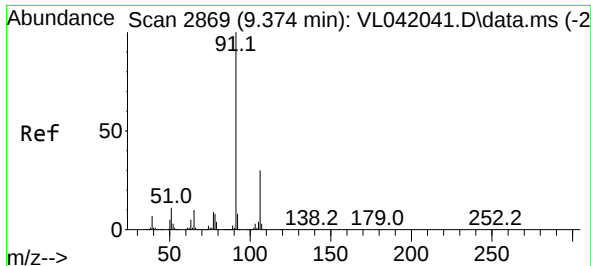
Tgt Ion: 91 Resp: 7497
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 117 Resp: 340317
Ion Ratio Lower Upper
117 100
82 64.8 55.0 82.6
119 31.9 25.9 38.9





#58

Ethyl Benzene

Concen: 0.228 ppbv

RT: 9.371 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

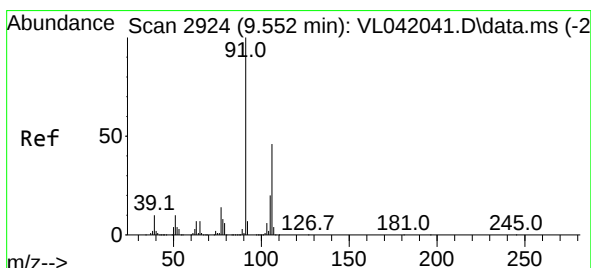
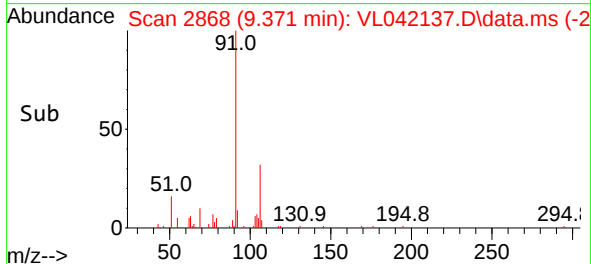
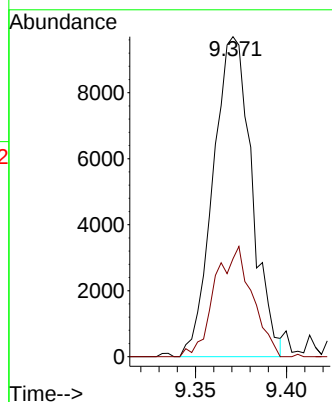
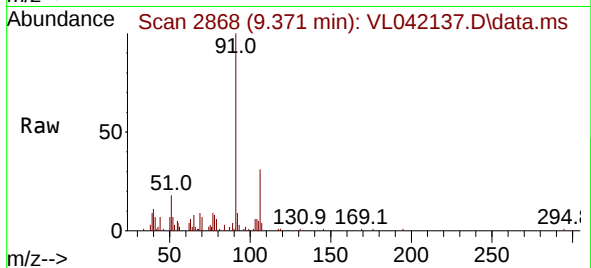
SV2

Tgt Ion: 91 Resp: 14280

Ion Ratio Lower Upper

91 100

106 30.6 24.2 36.2



#59

m/p-Xylene

Concen: 1.016 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. -0.010 min

Lab File: VL042137.D

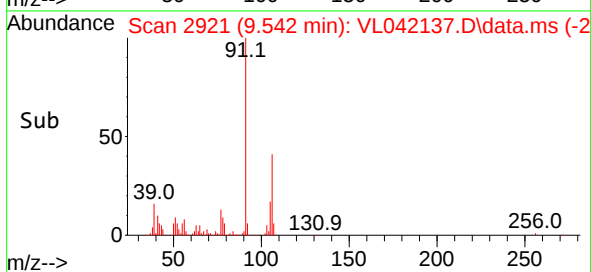
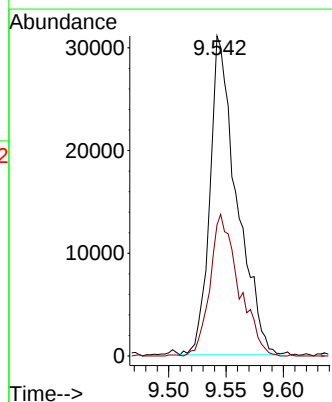
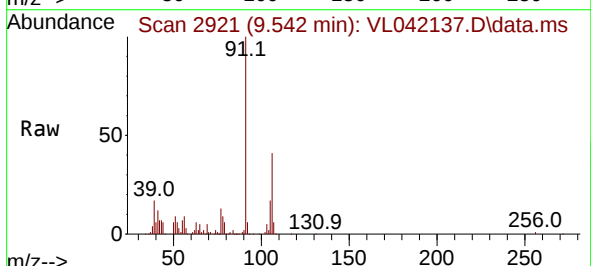
Acq: 10 Mar 2025 21:38

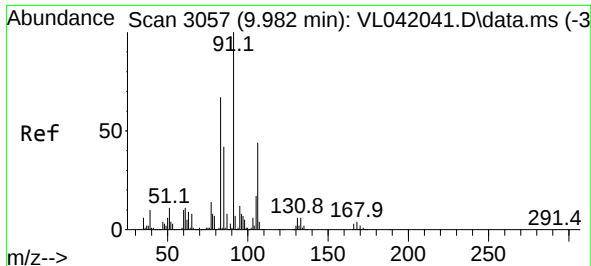
Tgt Ion: 91 Resp: 50664

Ion Ratio Lower Upper

91 100

106 47.6 0.0 0.0#

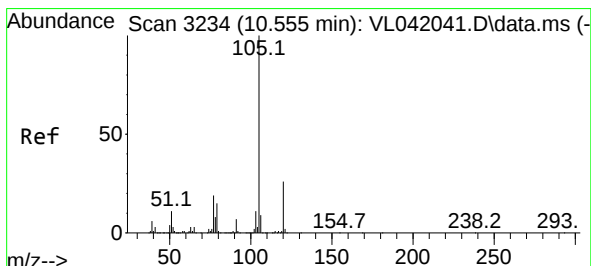
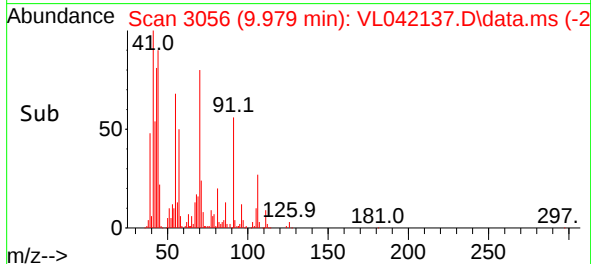
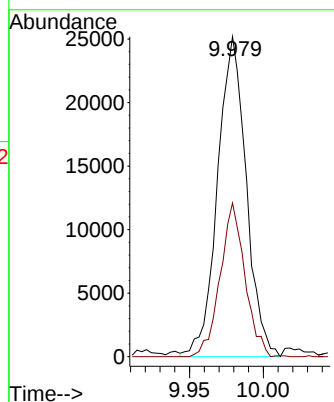
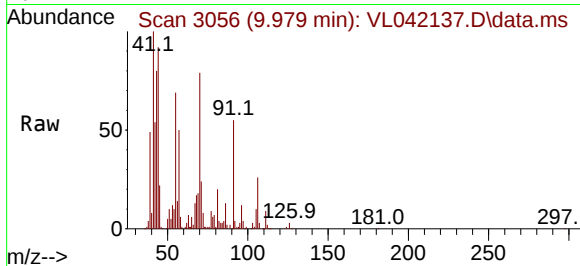




#60
o-Xylene
Concen: 0.679 ppbv
RT: 9.979 min Scan# 3055
Delta R.T. -0.003 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

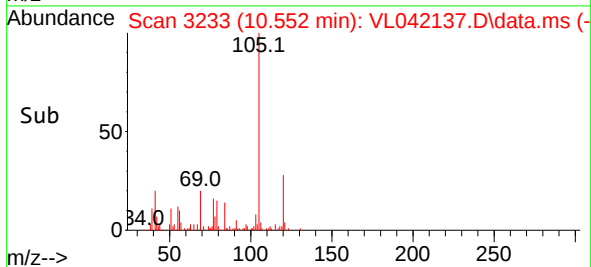
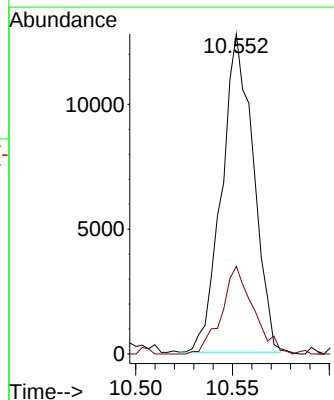
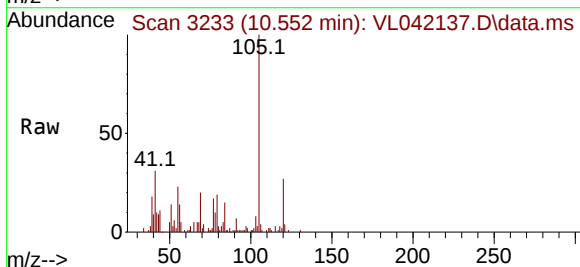
Instrument :
MSVOA_L
ClientSampleId :
SV2

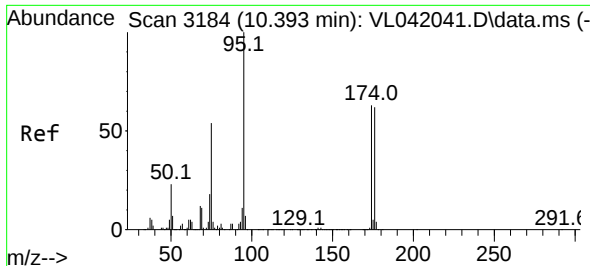
Tgt Ion: 91 Resp: 34055
Ion Ratio Lower Upper
91 100
106 41.6 22.3 66.8



#62
Isopropylbenzene
Concen: 0.193 ppbv
RT: 10.552 min Scan# 3233
Delta R.T. -0.003 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 105 Resp: 14518
Ion Ratio Lower Upper
105 100
120 28.3 20.7 31.1

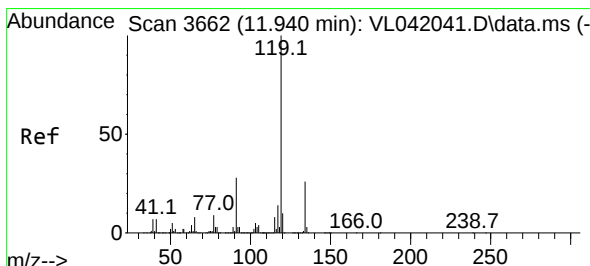
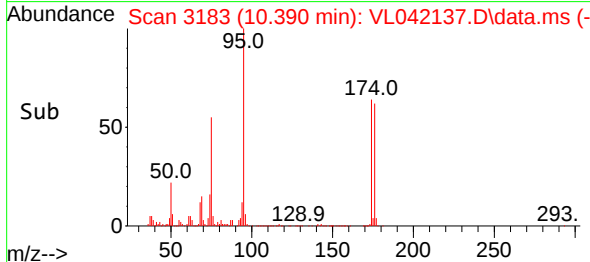
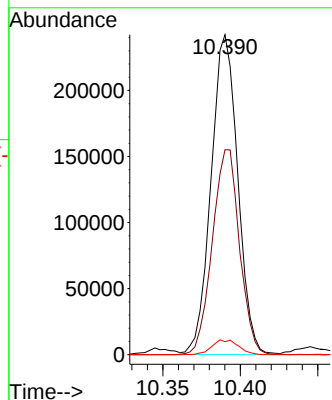
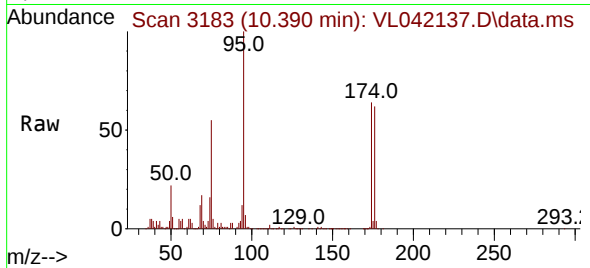




#68
1-Bromo-4-Fluorobenzene
Concen: 11.075 ppbv
RT: 10.390 min Scan# 3184
Delta R.T. -0.003 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

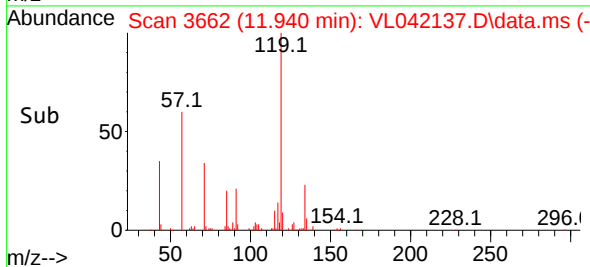
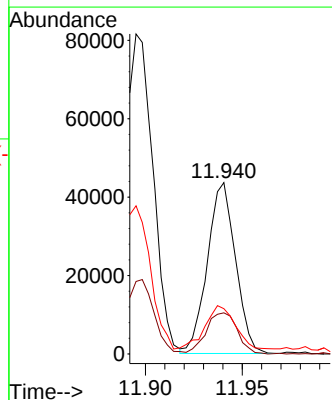
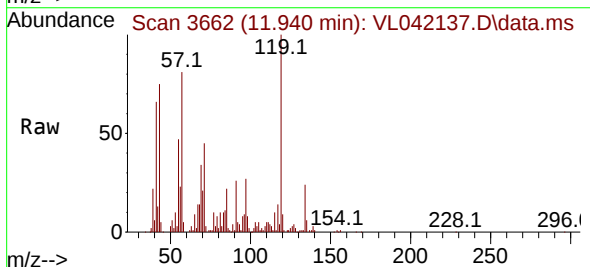
Instrument :
MSVOA_L
ClientSampleId :
SV2

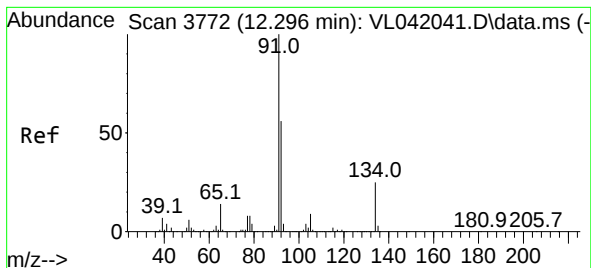
Tgt Ion: 95 Resp: 289970
Ion Ratio Lower Upper
95 100
174 65.3 51.8 77.6
175 4.6 3.9 5.9



#69
p-Isopropyltoluene
Concen: 0.566 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.000 min
Lab File: VL042137.D
Acq: 10 Mar 2025 21:38

Tgt Ion: 119 Resp: 43993
Ion Ratio Lower Upper
119 100
134 27.0 20.9 31.3
91 33.4 23.1 34.7





#70

n-Butylbenzene

Concen: 1.485 ppbv

RT: 12.293 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

SV2

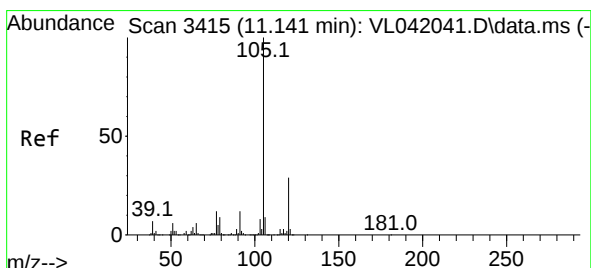
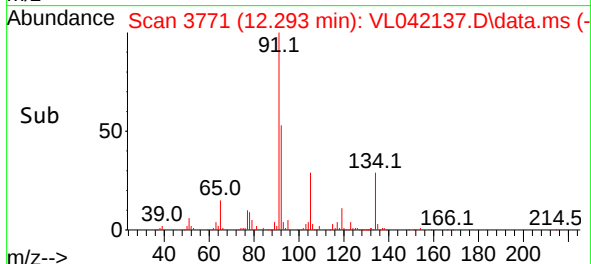
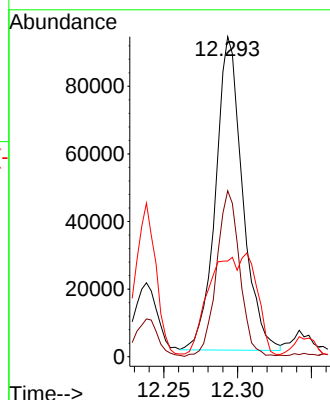
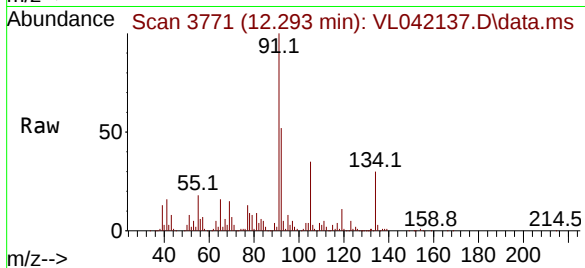
Tgt Ion: 91 Resp: 117905

Ion Ratio Lower Upper

91 100

92 44.4 44.7 67.1#

134 58.3 18.9 28.3#



#72

4-Ethyltoluene

Concen: 1.525 ppbv m

RT: 11.138 min Scan# 3414

Delta R.T. -0.003 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

Tgt Ion: 105 Resp: 93376

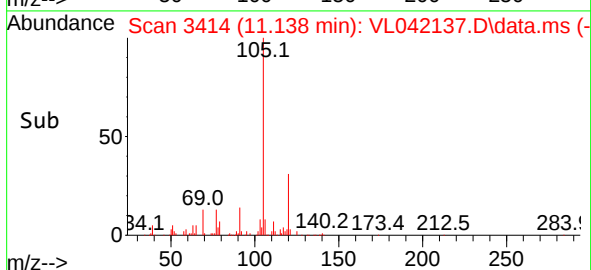
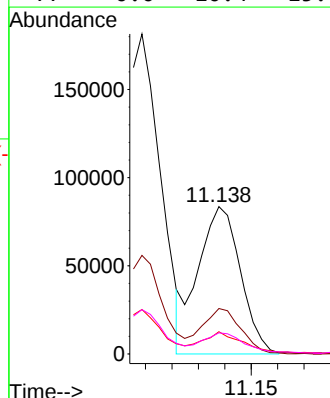
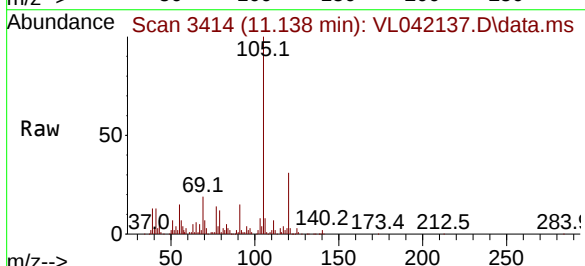
Ion Ratio Lower Upper

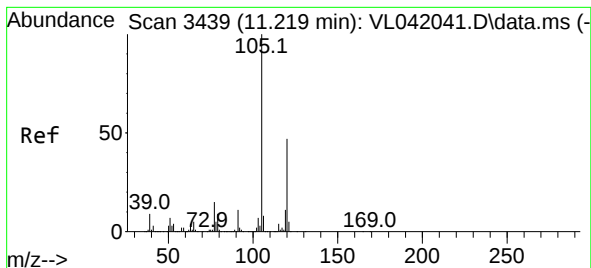
105 100

120 0.0 24.1 36.1#

91 0.0 10.2 15.4#

77 0.0 10.4 15.6#





#73

1,3,5-Trimethylbenzene

Concen: 1.997 ppbv

RT: 11.215 min Scan# 3439

Delta R.T. -0.003 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

Instrument :

MSVOA_L

ClientSampleId :

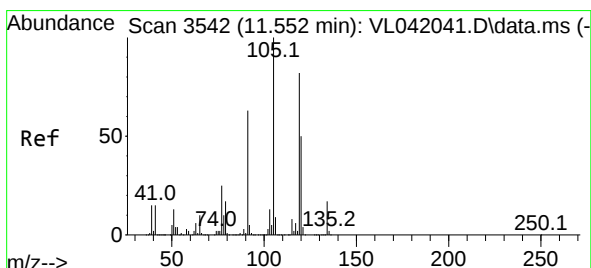
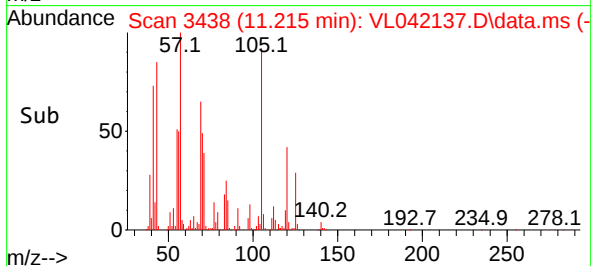
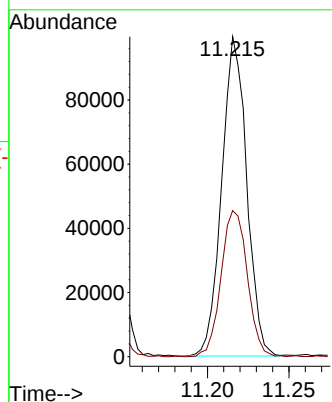
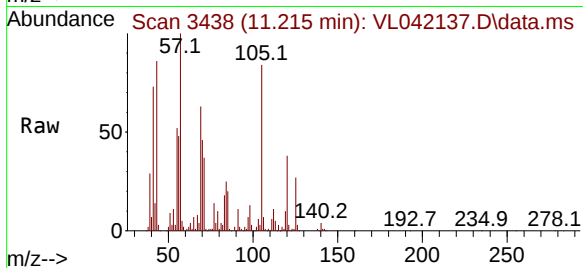
SV2

Tgt Ion:105 Resp: 106051

Ion Ratio Lower Upper

105 100

120 45.6 37.4 56.0



#74

1,2,4-Trimethylbenzene

Concen: 7.496 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. -0.003 min

Lab File: VL042137.D

Acq: 10 Mar 2025 21:38

Tgt Ion:105 Resp: 448244

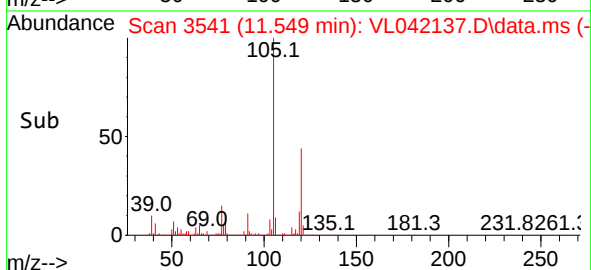
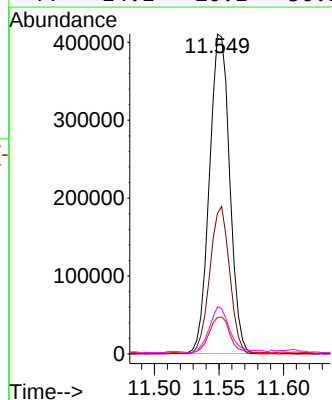
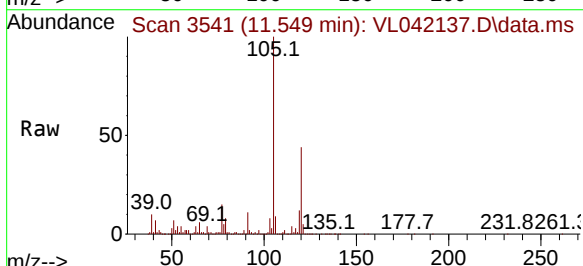
Ion Ratio Lower Upper

105 100

120 44.0 40.2 60.2

91 11.1 51.4 77.2#

77 14.1 20.1 30.1#



Report of Analysis

Client:	GFE LLC	Date Collected:	03/07/25
Project:	3555 Victory Blvd, Staten Island NY	Date Received:	03/07/25
Client Sample ID:	IA2	SDG No.:	Q1533
Lab Sample ID:	Q1533-04	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042133.D	1		03/10/25 19:30	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	1.10	7.46		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	163000		2.8			
540-36-3	1,4-Difluorobenzene	382000		3.978			
3114-55-4	Chlorobenzene-d5	316000		8.901			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042133.D
 Acq On : 10 Mar 2025 19:30
 Operator : SY/MD
 Sample : Q1533-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Mar 11 01:29:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

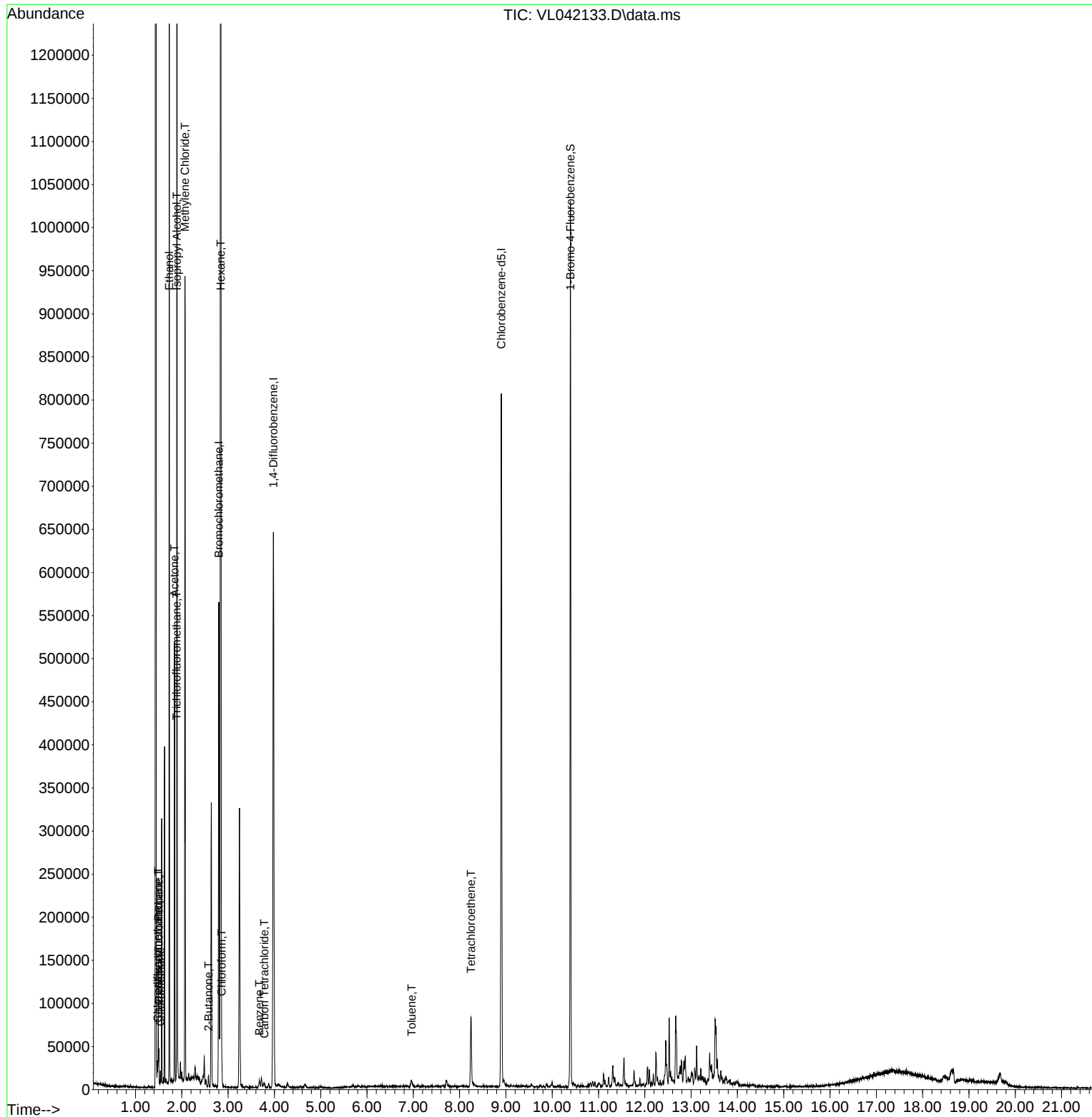
Internal Standards						
1) Bromochloromethane	2.800	49	163450	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	382061	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	315801	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	243680	10.030	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	9485	0.558	ppbv	97
3) Chlorodifluoromethane	1.479	51	5670m	0.239	ppbv	
4) Chloromethane	1.538	50	4223	0.672	ppbv	89
9) Propene	1.492	41	8866m	0.916	ppbv	
11) Trichlorofluoromethane	1.887	101	4547	0.267	ppbv	91
13) Ethanol	1.729	45	416869	678.556	ppbv	93
15) Acetone	1.842	43	211093	14.624	ppbv	99
19) Isopropyl Alcohol	1.894	45	931851	112.388	ppbv #	33
20) Methylene Chloride	2.068	84	141522	25.920	ppbv	98
26) Hexane	2.839	57	555187	23.769	ppbv #	34
29) Chloroform	2.861	83	11915	0.379	ppbv	99
34) 2-Butanone	2.577	43	7802	0.262	ppbv	100
35) Carbon Tetrachloride	3.781	117	1808m	0.069	ppbv	
36) Benzene	3.674	78	4877	0.122	ppbv #	84
52) Tetrachloroethene	8.244	164	15231m	1.112	ppbv	
53) Toluene	6.962	91	4562m	0.102	ppbv	

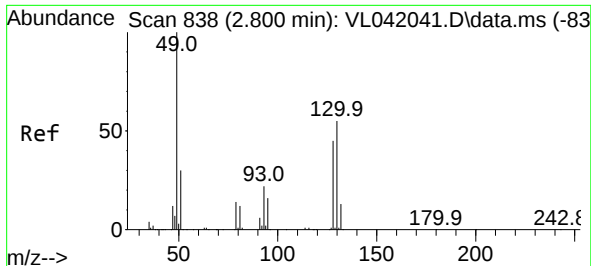
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042133.D
Acq On : 10 Mar 2025 19:30
Operator : SY/MD
Sample : Q1533-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Mar 11 01:29:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

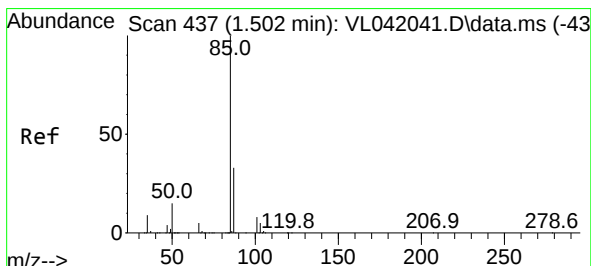
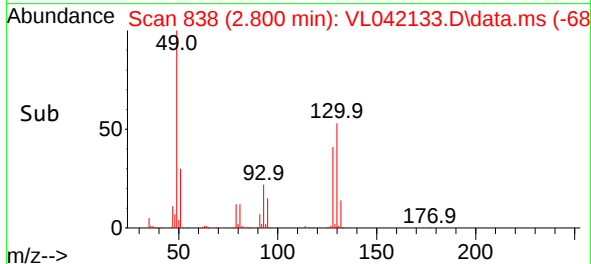
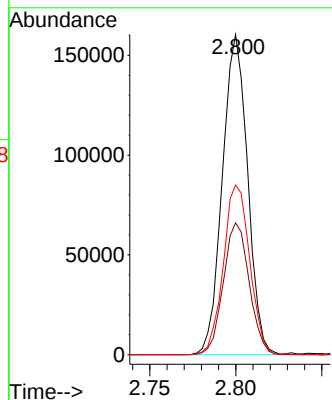
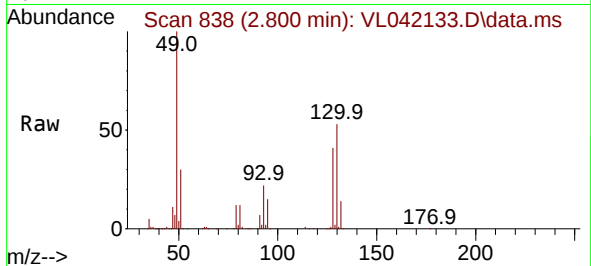




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

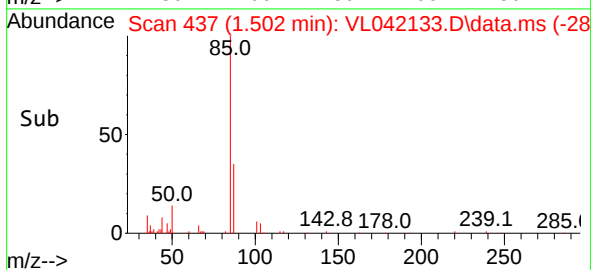
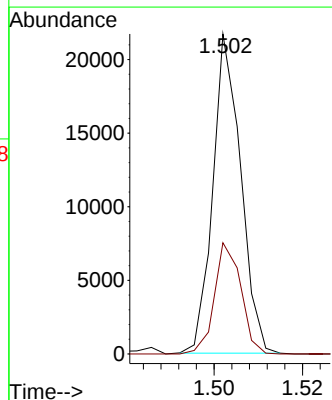
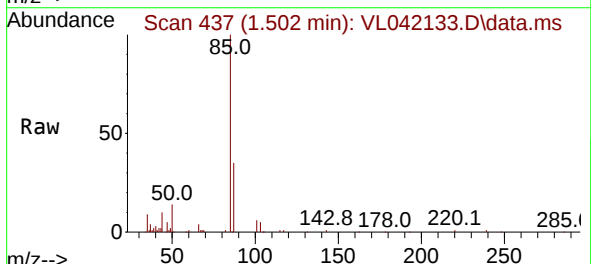
Instrument :
MSVOA_L
ClientSampleId :
IA2

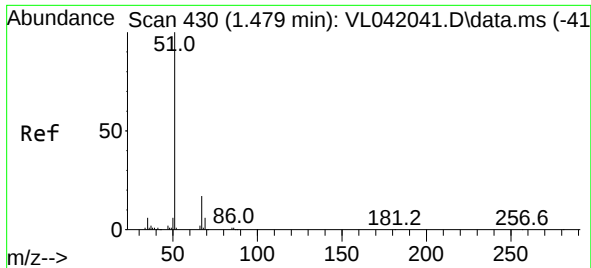
Tgt Ion: 49 Resp: 163450
Ion Ratio Lower Upper
49 100
128 42.2 21.6 64.8
130 55.5 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.558 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

Tgt Ion: 85 Resp: 9485
Ion Ratio Lower Upper
85 100
87 34.8 26.4 39.6

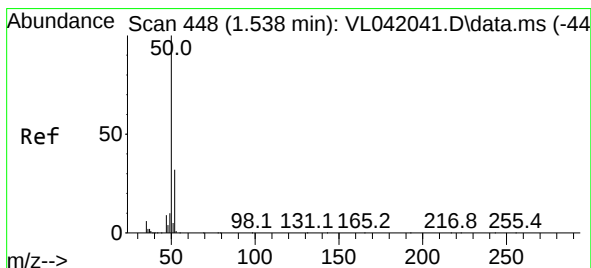
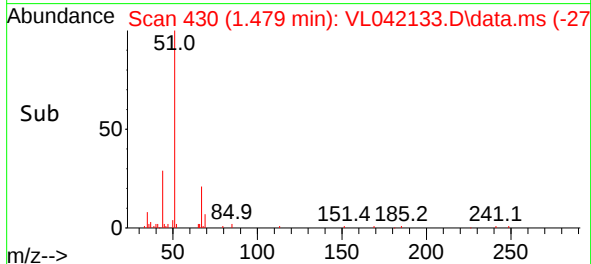
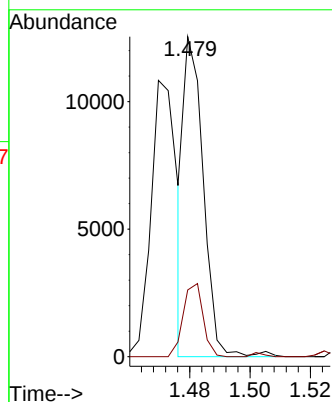
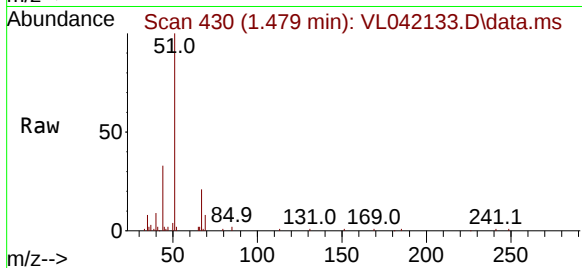




#3
Chlorodifluoromethane
Concen: 0.239 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

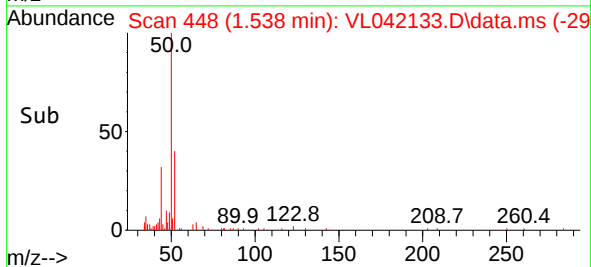
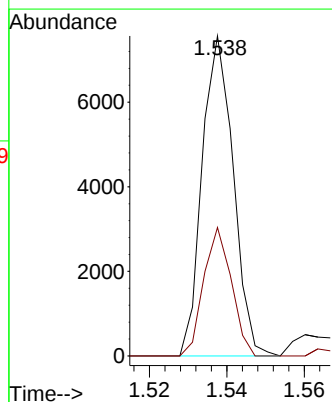
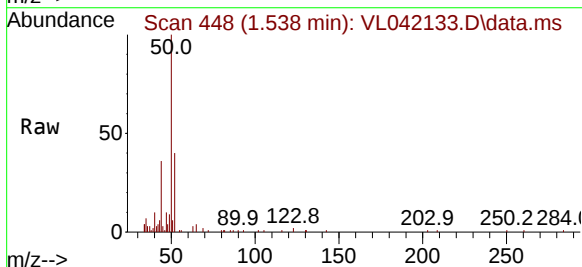
Instrument :
MSVOA_L
ClientSampleId :
IA2

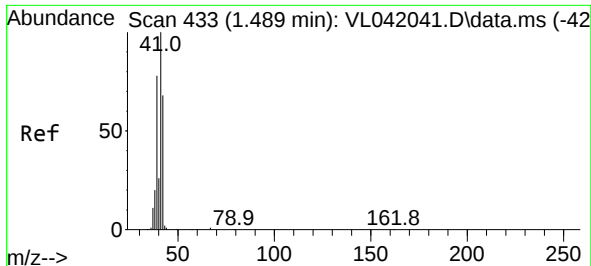
Tgt Ion: 51 Resp: 5670
Ion Ratio Lower Upper
51 100
67 24.0 13.7 20.5#



#4
Chloromethane
Concen: 0.672 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

Tgt Ion: 50 Resp: 4223
Ion Ratio Lower Upper
50 100
52 38.0 25.4 38.0





#9

Propene

Concen: 0.916 ppbv m

RT: 1.492 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042133.D

Acq: 10 Mar 2025 19:30

Instrument :

MSVOA_L

ClientSampleId :

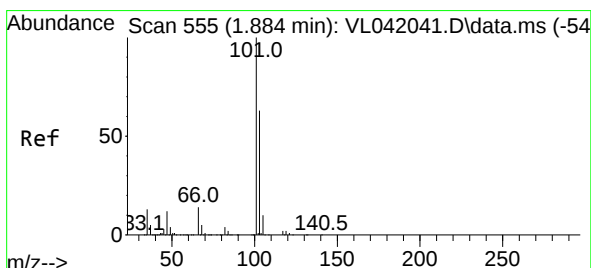
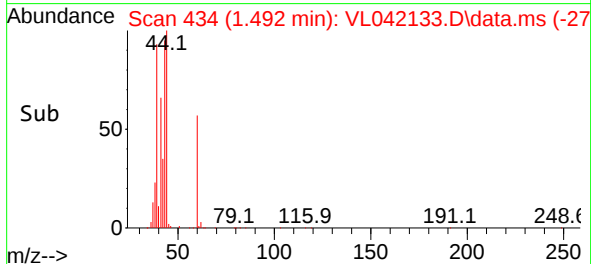
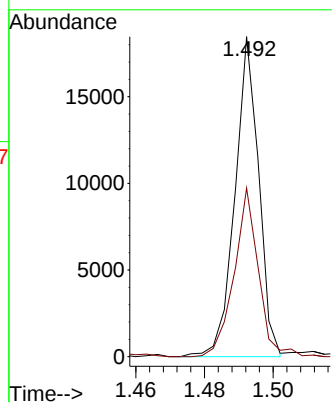
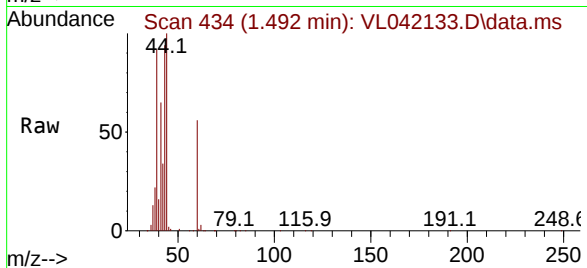
IA2

Tgt Ion: 41 Resp: 8866

Ion Ratio Lower Upper

41 100

42 98.7 55.8 83.6#



#11

Trichlorofluoromethane

Concen: 0.267 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042133.D

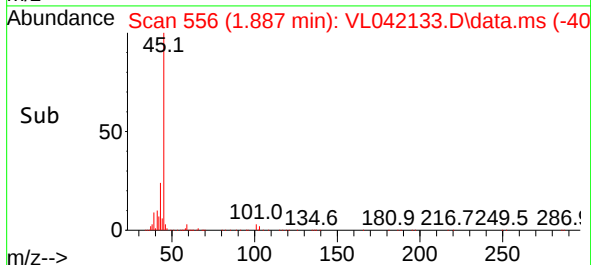
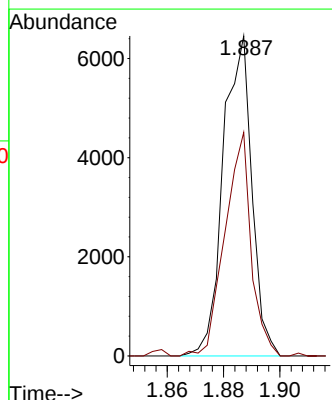
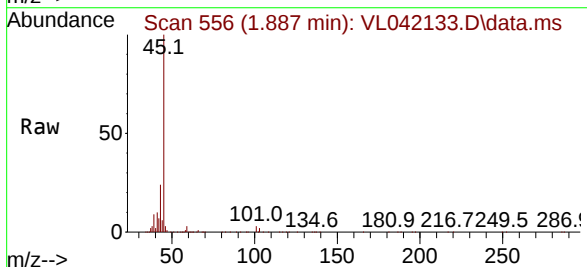
Acq: 10 Mar 2025 19:30

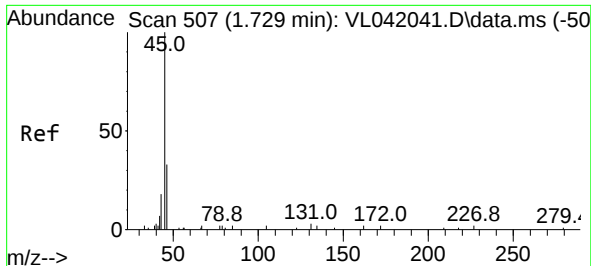
Tgt Ion:101 Resp: 4547

Ion Ratio Lower Upper

101 100

103 69.8 50.6 75.8

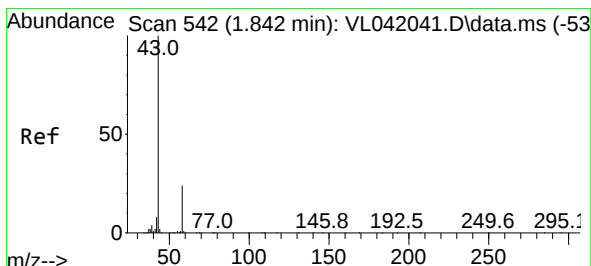
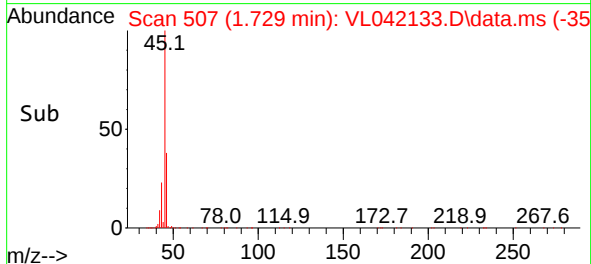
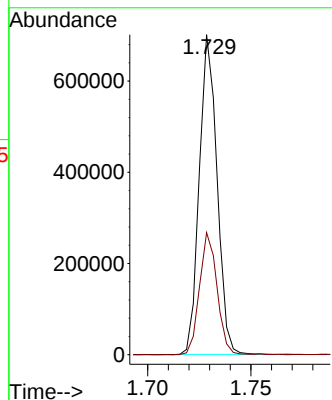
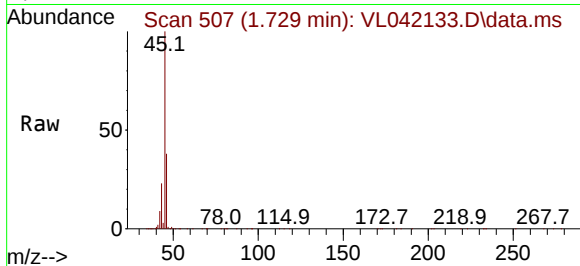




#13
Ethanol
Concen: 678.556 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

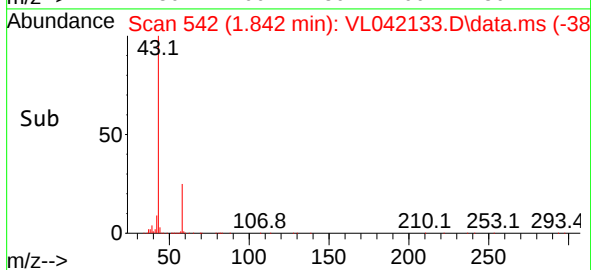
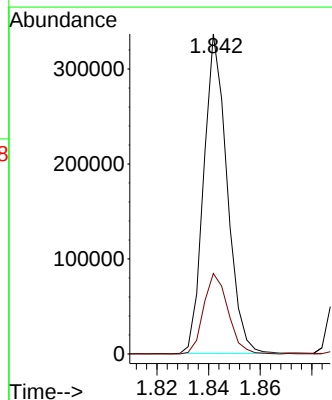
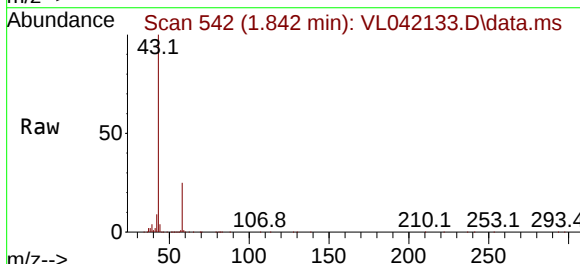
Instrument :
MSVOA_L
ClientSampleId :
IA2

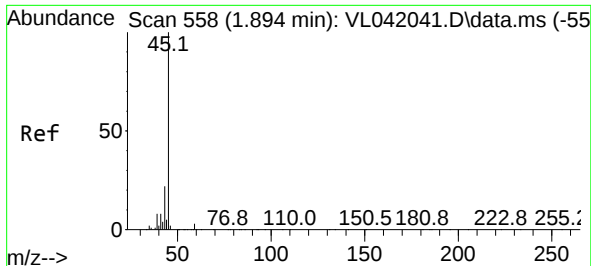
Tgt Ion: 45 Resp: 416869
Ion Ratio Lower Upper
45 100
46 38.1 17.1 68.3



#15
Acetone
Concen: 14.624 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

Tgt Ion: 43 Resp: 211093
Ion Ratio Lower Upper
43 100
58 26.3 20.7 31.1

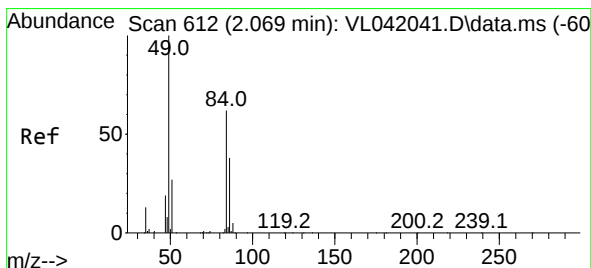
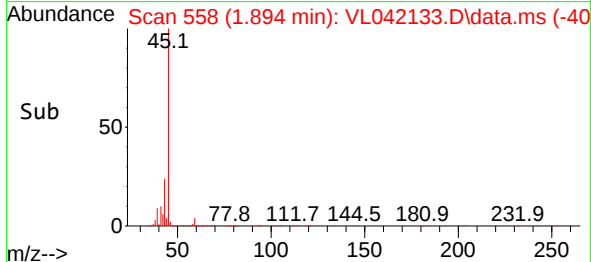
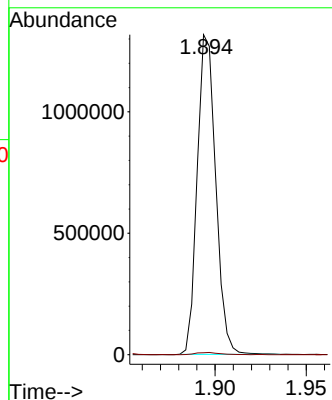
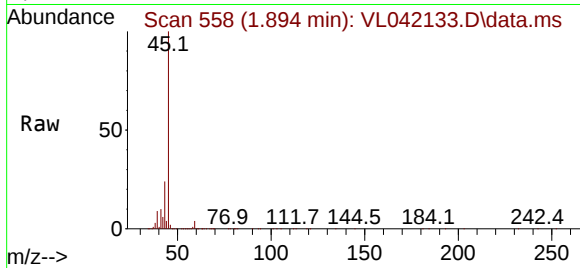




#19
Isopropyl Alcohol
Concen: 112.388 ppbv
RT: 1.894 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

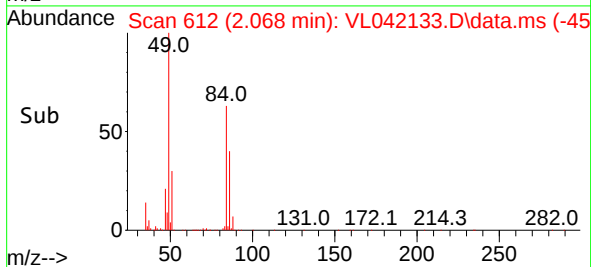
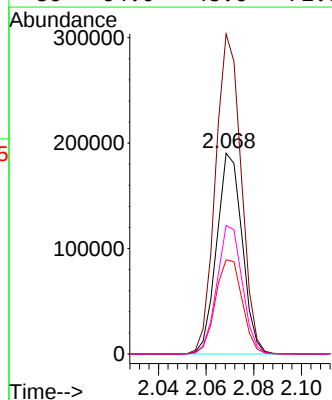
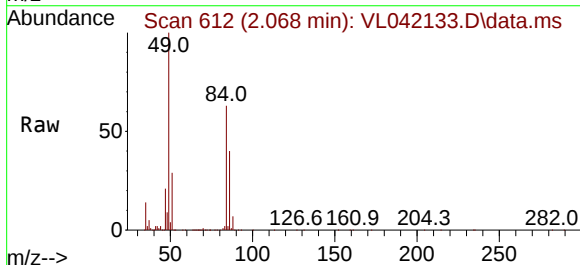
Instrument :
MSVOA_L
ClientSampleId :
IA2

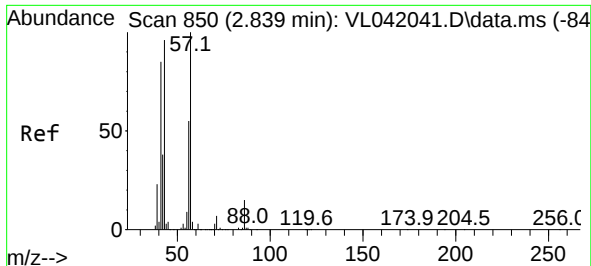
Tgt Ion: 45 Resp: 931851
Ion Ratio Lower Upper
45 100
58 0.9 35.3 52.9#



#20
Methylene Chloride
Concen: 25.920 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

Tgt Ion: 84 Resp: 141522
Ion Ratio Lower Upper
84 100
49 159.3 130.0 195.0
51 46.9 37.4 56.0
86 64.0 48.6 72.8

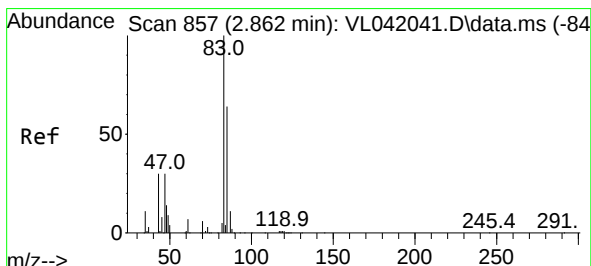
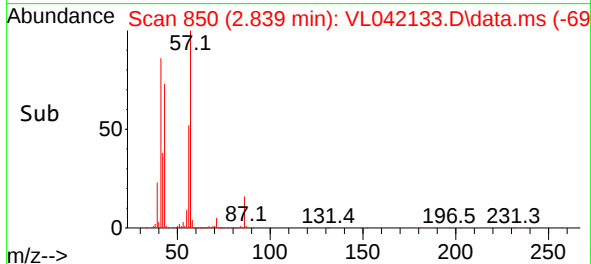
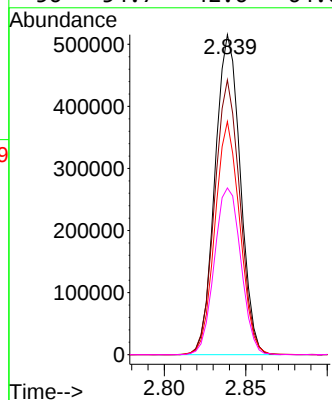
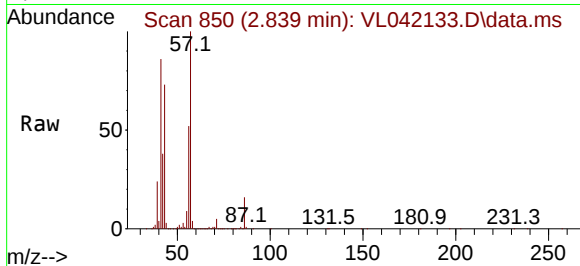




#26
Hexane
Concen: 23.769 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

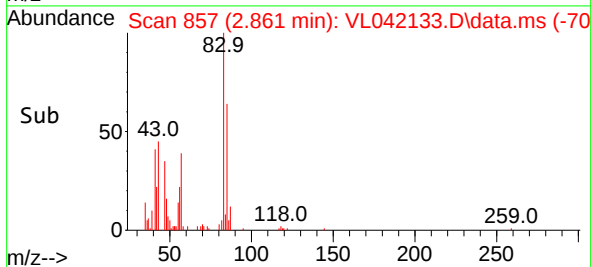
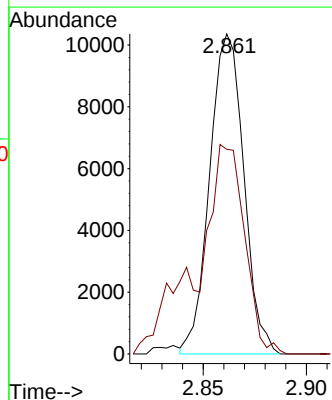
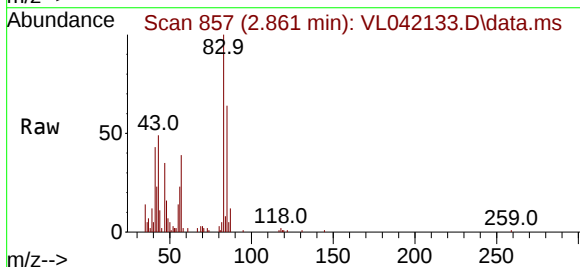
Instrument :
MSVOA_L
ClientSampleId :
IA2

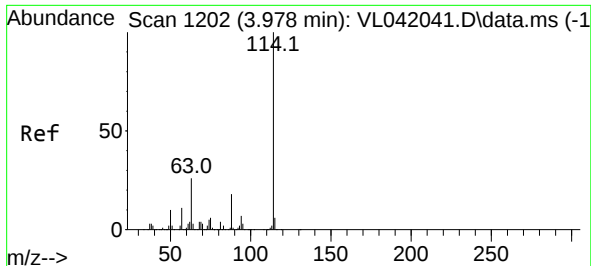
Tgt Ion: 57	Resp: 555187
Ion Ratio	Lower Upper
57 100	
41 86.4	70.6 106.0
43 71.9	199.4 299.0#
56 54.7	42.6 64.0



#29
Chloroform
Concen: 0.379 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

Tgt Ion: 83	Resp: 11915
Ion Ratio	Lower Upper
83 100	
85 62.9	51.2 76.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042133.D

Acq: 10 Mar 2025 19:30

Instrument :

MSVOA_L

ClientSampleId :

IA2

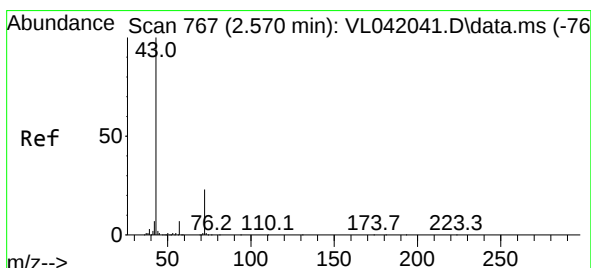
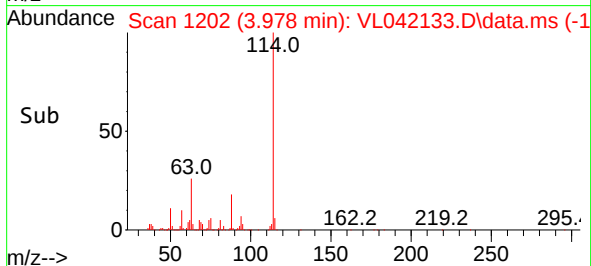
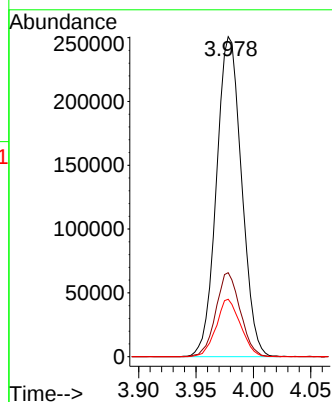
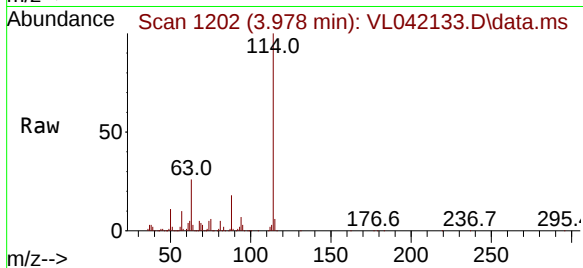
Tgt Ion:114 Resp: 382061

Ion Ratio Lower Upper

114 100

63 25.6 20.1 30.1

88 17.4 14.3 21.5



#34

2-Butanone

Concen: 0.262 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.006 min

Lab File: VL042133.D

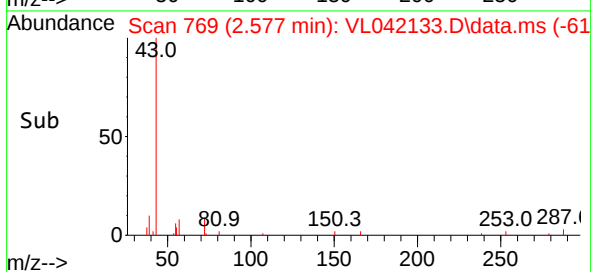
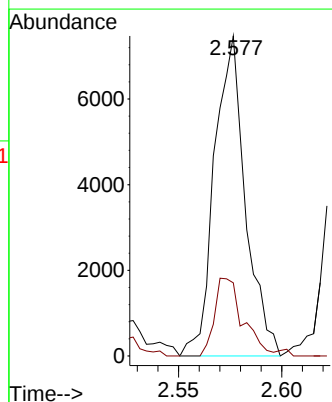
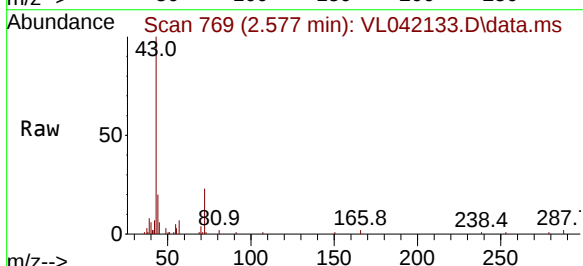
Acq: 10 Mar 2025 19:30

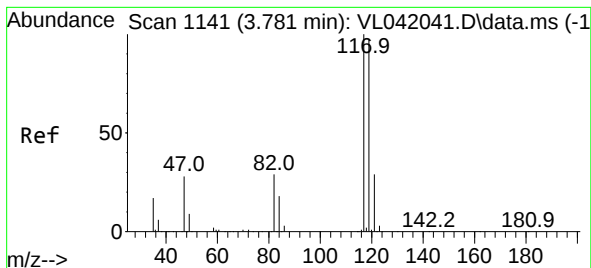
Tgt Ion: 43 Resp: 7802

Ion Ratio Lower Upper

43 100

72 22.9 18.5 27.7





#35

Carbon Tetrachloride

Concen: 0.069 ppbv m

RT: 3.781 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VL042133.D

Acq: 10 Mar 2025 19:30

Instrument :

MSVOA_L

ClientSampleId :

IA2

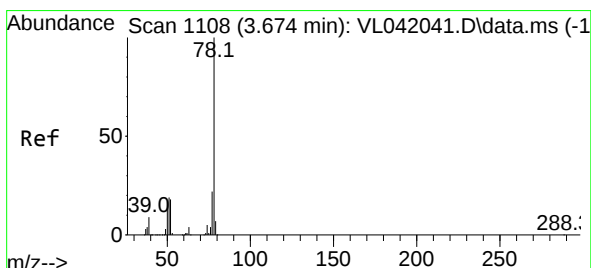
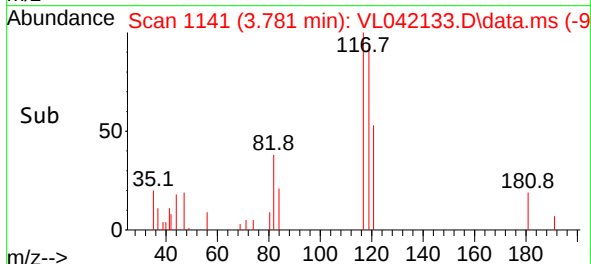
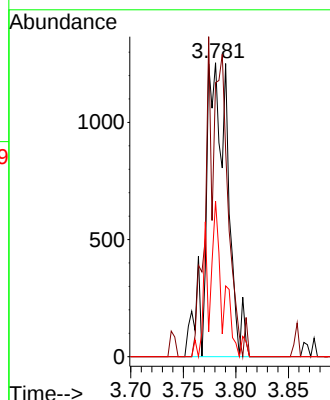
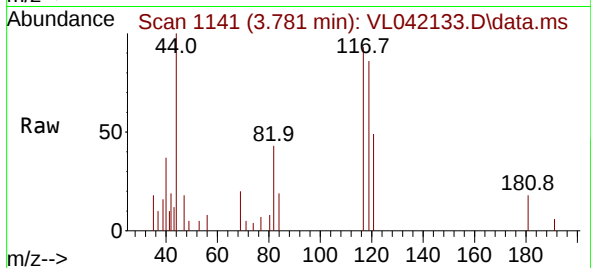
Tgt Ion:117 Resp: 1808

Ion Ratio Lower Upper

117 100

119 93.2 77.8 116.8

121 52.9 23.4 35.0#



#36

Benzene

Concen: 0.122 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. -0.000 min

Lab File: VL042133.D

Acq: 10 Mar 2025 19:30

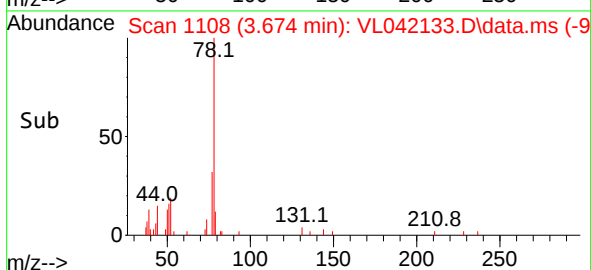
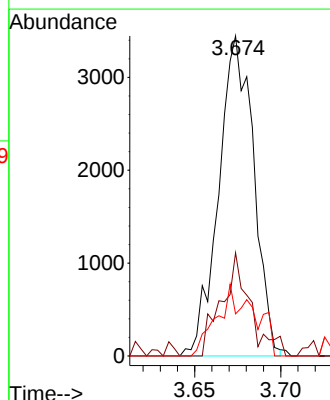
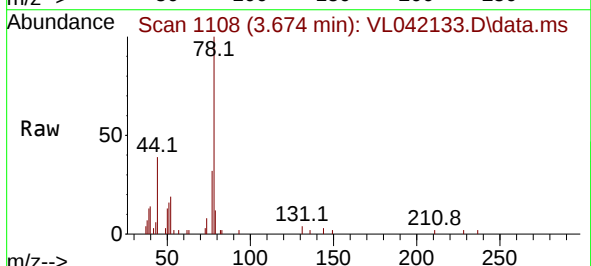
Tgt Ion: 78 Resp: 4877

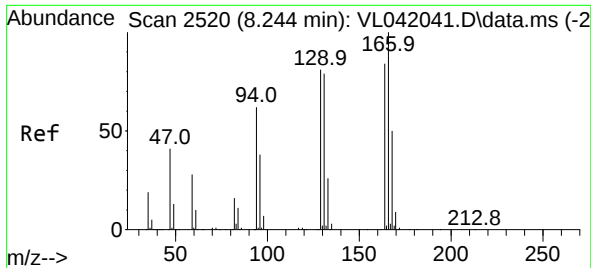
Ion Ratio Lower Upper

78 100

77 32.3 17.7 26.5#

50 13.1 13.9 20.9#

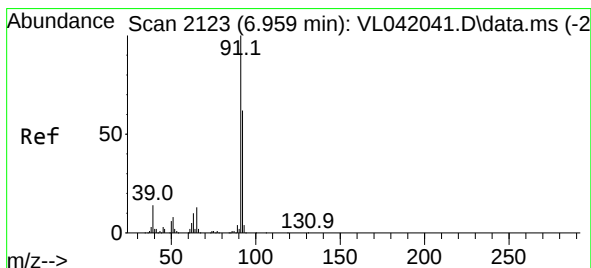
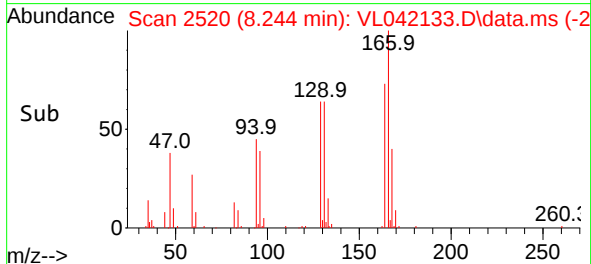
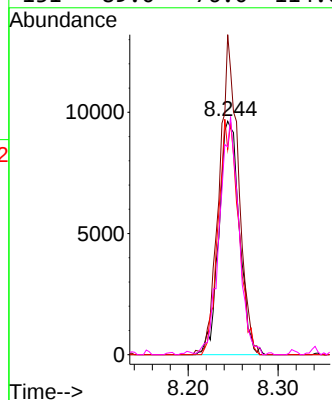
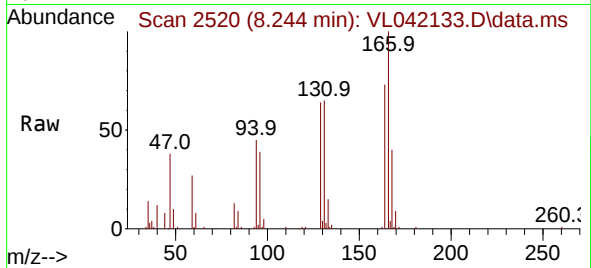




#52
Tetrachloroethene
Concen: 1.112 ppbv m
RT: 8.244 min Scan# 2124
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

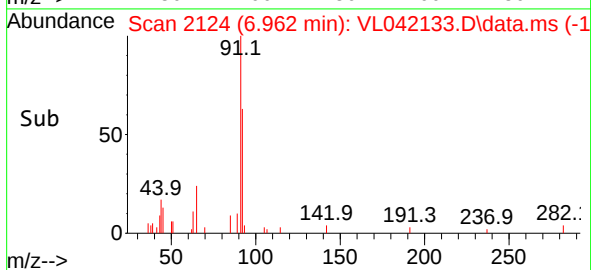
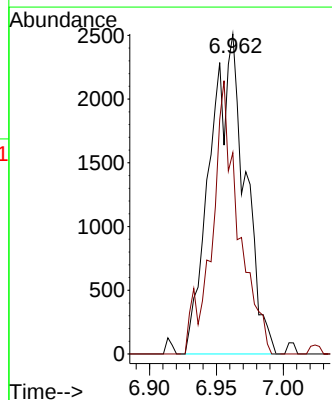
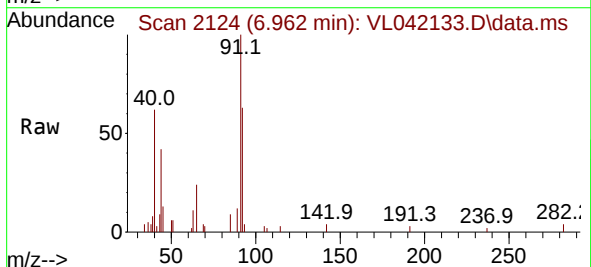
Instrument :
MSVOA_L
ClientSampleId :
IA2

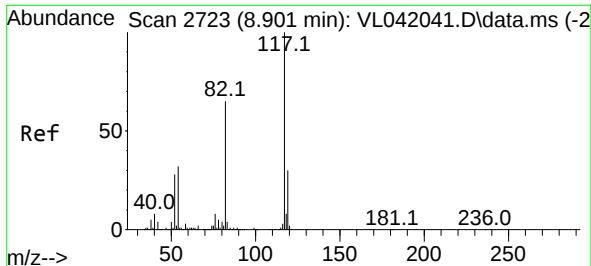
Tgt Ion:164 Resp: 15231
Ion Ratio Lower Upper
164 100
166 137.1 95.7 143.5
129 87.9 77.1 115.7
131 89.0 76.0 114.0



#53
Toluene
Concen: 0.102 ppbv m
RT: 6.962 min Scan# 2124
Delta R.T. 0.003 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

Tgt Ion: 91 Resp: 4562
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#

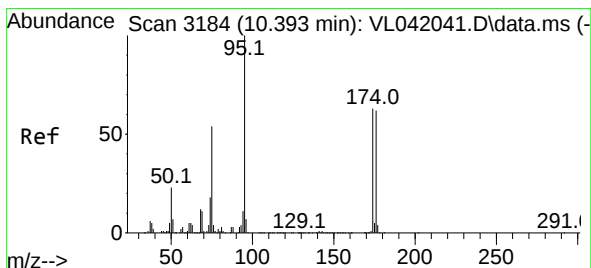
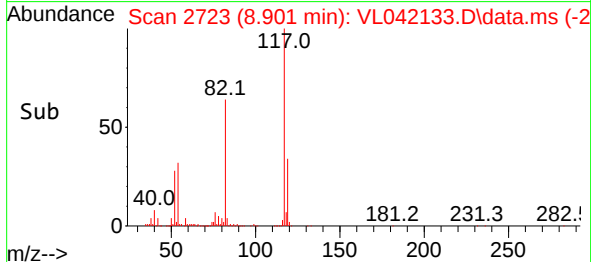
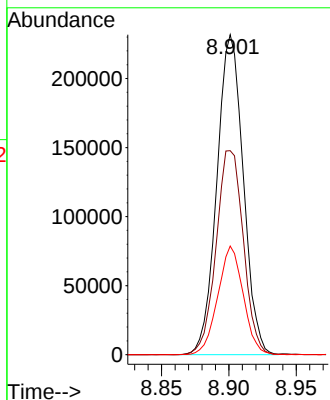
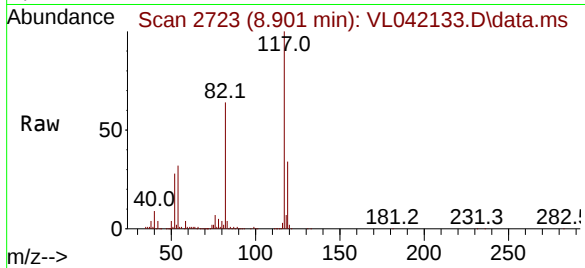




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

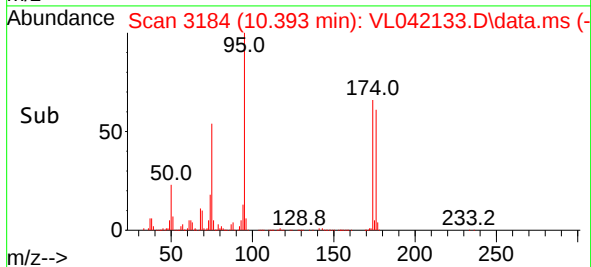
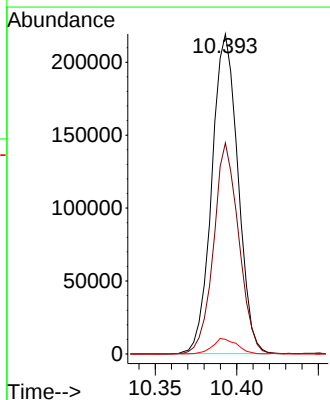
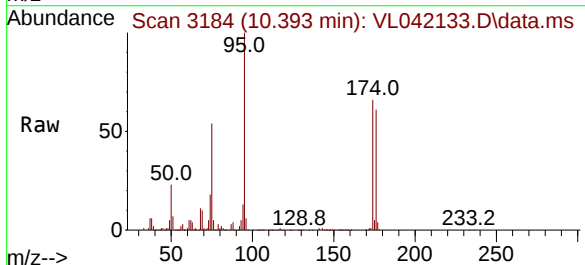
Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion:	117	Resp:	315801
Ion	Ratio	Lower	Upper
117	100		
82	65.9	55.0	82.6
119	32.7	25.9	38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.030 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042133.D
Acq: 10 Mar 2025 19:30

Tgt Ion:	95	Resp:	243680
Ion	Ratio	Lower	Upper
95	100		
174	63.7	51.8	77.6
175	4.6	3.9	5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	03/07/25
Project:	3555 Victory Blvd, Staten Island NY	Date Received:	03/07/25
Client Sample ID:	OA1	SDG No.:	Q1533
Lab Sample ID:	Q1533-05	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042134.D	1		03/10/25 20:03	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000		2.8			
540-36-3	1,4-Difluorobenzene	372000		3.978			
3114-55-4	Chlorobenzene-d5	309000		8.901			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042134.D
 Acq On : 10 Mar 2025 20:03
 Operator : SY/MD
 Sample : Q1533-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Mar 11 01:30:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

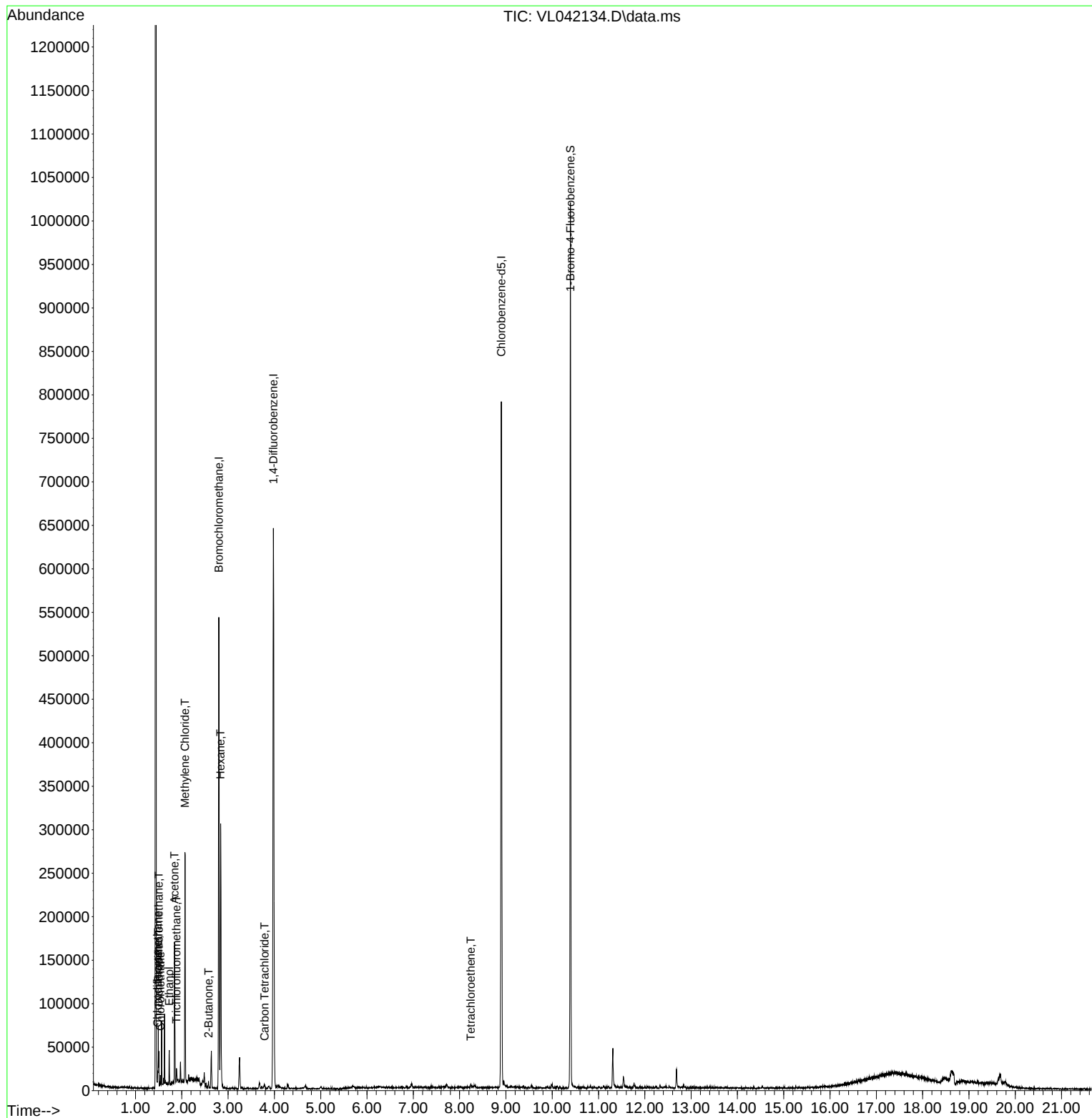
Internal Standards						
1) Bromochloromethane	2.800	49	159732	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	372131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	309256	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	240649	10.115	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	9840	0.592	ppbv	97
3) Chlorodifluoromethane	1.479	51	6445m	0.278	ppbv	
4) Chloromethane	1.538	50	3561	0.580	ppbv	90
9) Propene	1.492	41	4059	0.429	ppbv	83
11) Trichlorofluoromethane	1.884	101	4364m	0.262	ppbv	
13) Ethanol	1.729	45	14287	23.797	ppbv	93
15) Acetone	1.842	43	74138	5.256	ppbv	99
20) Methylene Chloride	2.068	84	41194	7.720	ppbv	95
26) Hexane	2.839	57	64539	2.827	ppbv #	33
34) 2-Butanone	2.577	43	4611	0.159	ppbv	99
35) Carbon Tetrachloride	3.787	117	1755m	0.068	ppbv	
52) Tetrachloroethene	8.241	164	453m	0.034	ppbv	

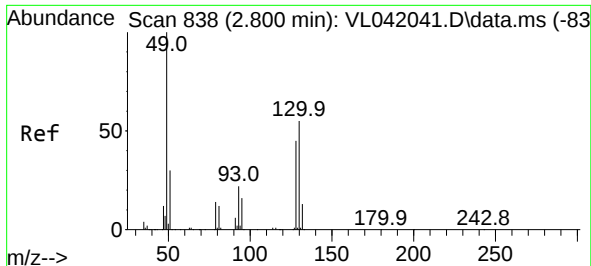
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042134.D
Acq On : 10 Mar 2025 20:03
Operator : SY/MD
Sample : Q1533-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Mar 11 01:30:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

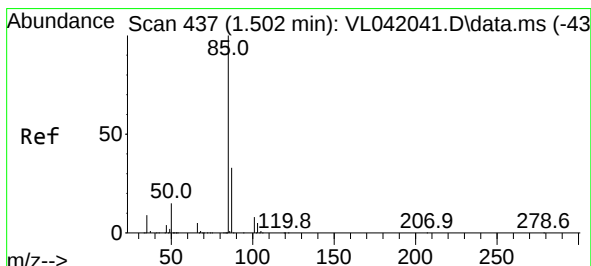
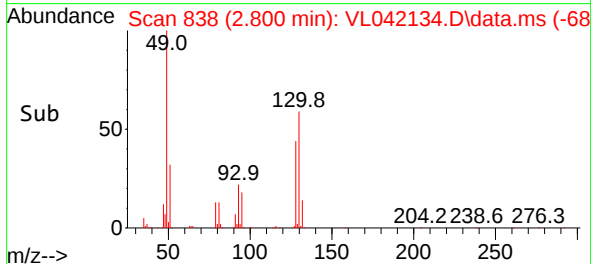
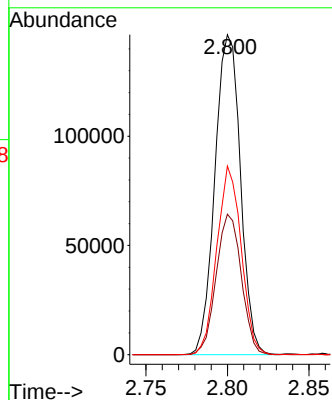
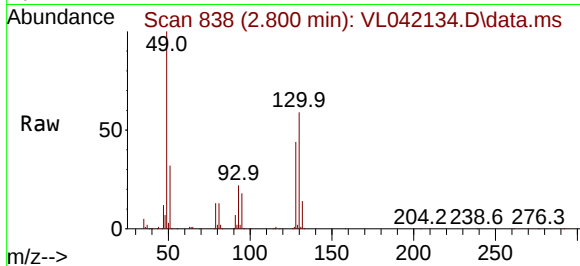




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

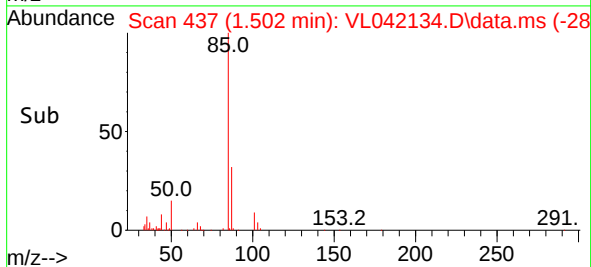
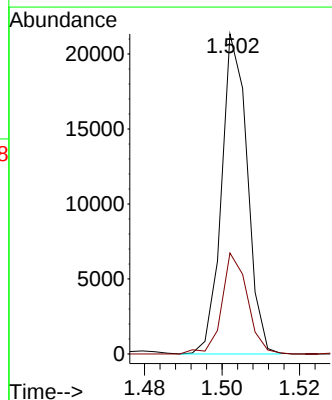
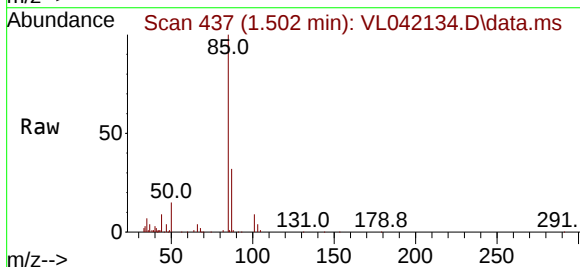
Instrument :
MSVOA_L
ClientSampleId :
OA1

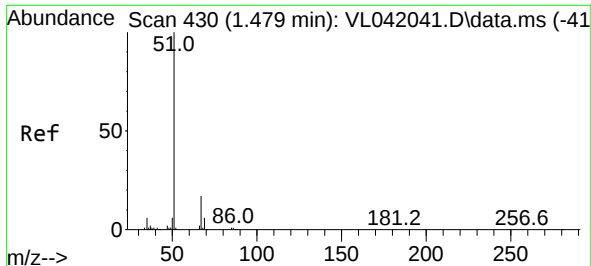
Tgt Ion: 49 Resp: 159732
Ion Ratio Lower Upper
49 100
128 43.2 21.6 64.8
130 56.2 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.592 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 85 Resp: 9840
Ion Ratio Lower Upper
85 100
87 31.6 26.4 39.6

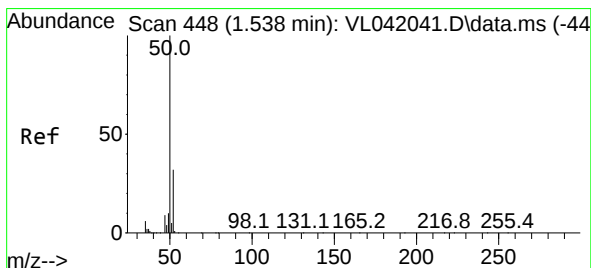
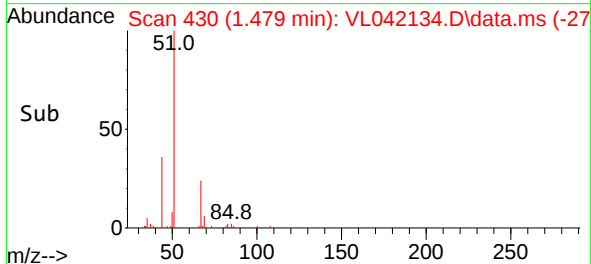
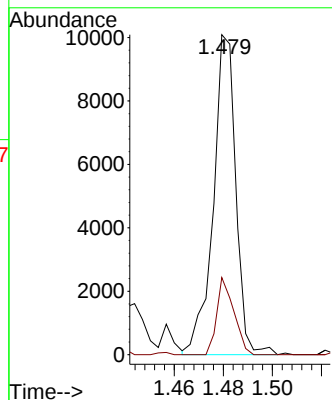
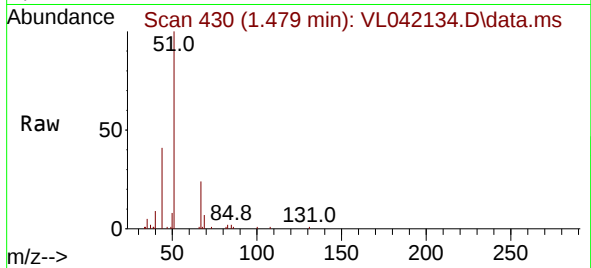




#3
Chlorodifluoromethane
Concen: 0.278 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

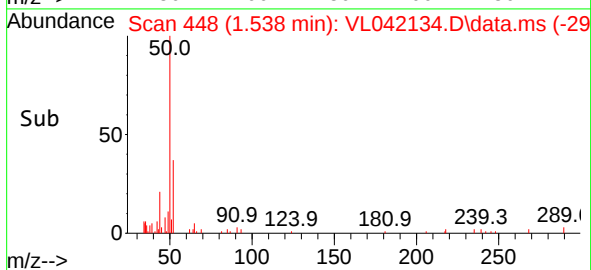
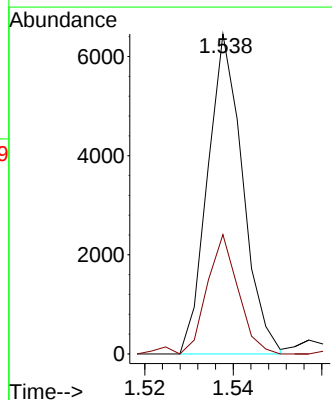
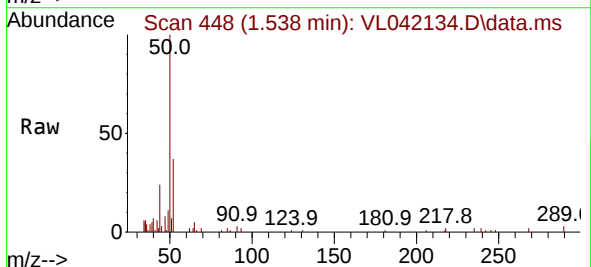
Instrument :
MSVOA_L
ClientSampleId :
OA1

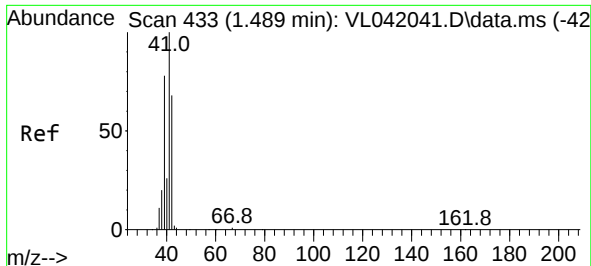
Tgt Ion: 51 Resp: 6445
Ion Ratio Lower Upper
51 100
67 18.6 13.7 20.5



#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 50 Resp: 3561
Ion Ratio Lower Upper
50 100
52 37.3 25.4 38.0





#9

Propene

Concen: 0.429 ppbv

RT: 1.492 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042134.D

Acq: 10 Mar 2025 20:03

Instrument :

MSVOA_L

ClientSampleId :

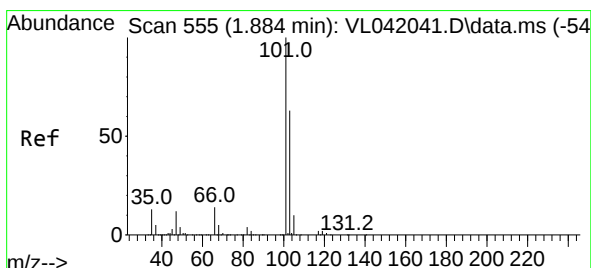
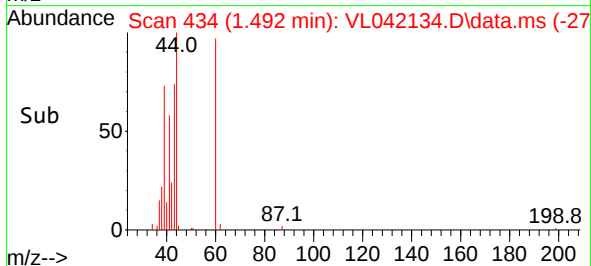
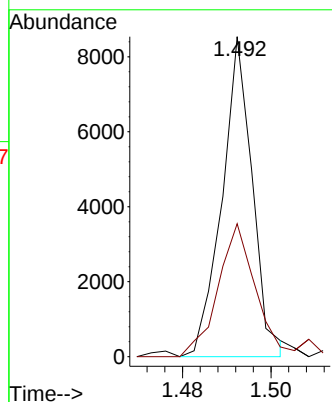
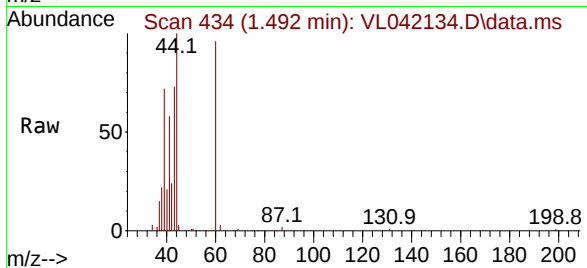
OA1

Tgt Ion: 41 Resp: 4059

Ion Ratio Lower Upper

41 100

42 56.2 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.262 ppbv m

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL042134.D

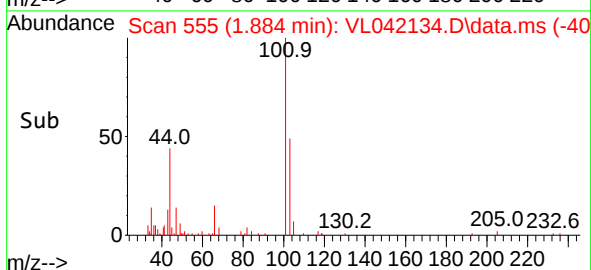
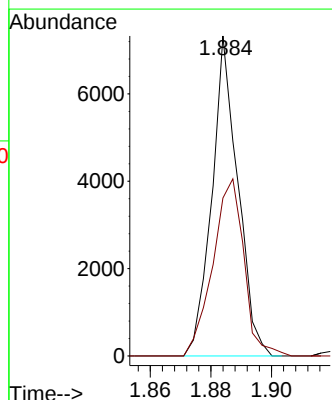
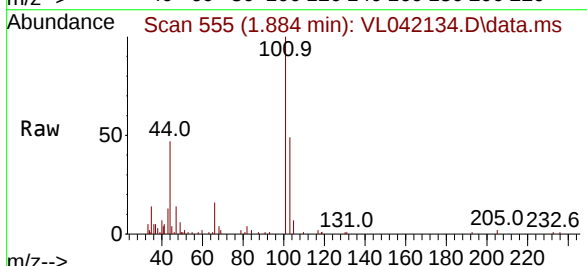
Acq: 10 Mar 2025 20:03

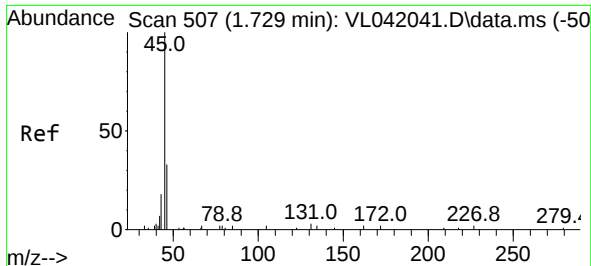
Tgt Ion:101 Resp: 4364

Ion Ratio Lower Upper

101 100

103 49.3 50.6 75.8#

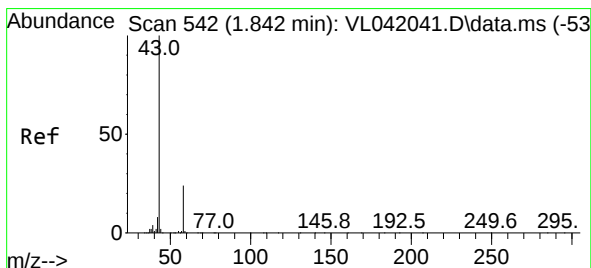
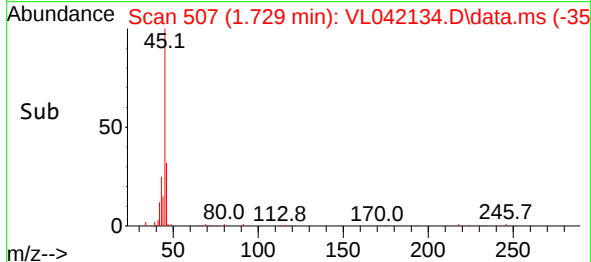
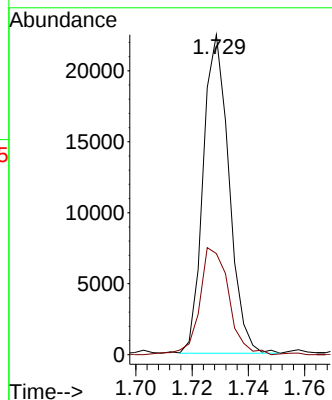
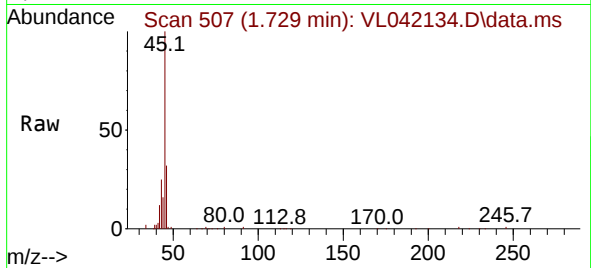




#13
Ethanol
Concen: 23.797 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

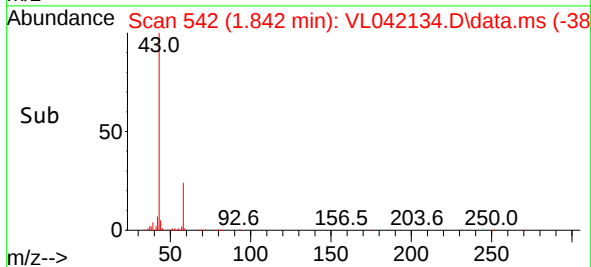
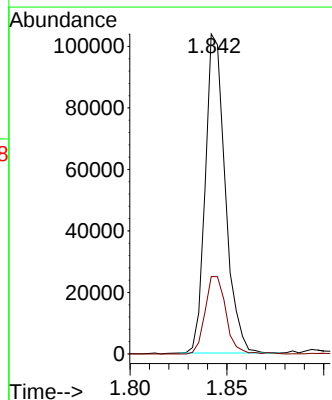
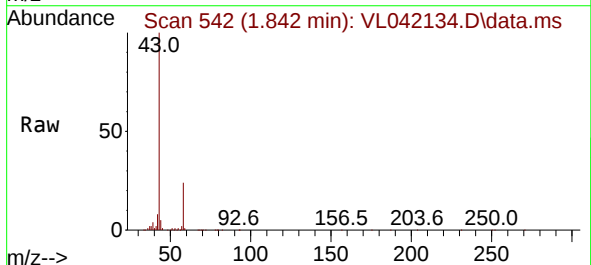
Instrument :
MSVOA_L
ClientSampleId :
OA1

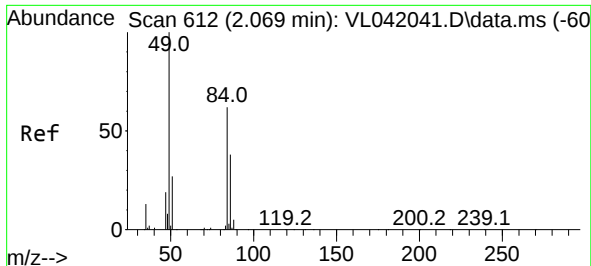
Tgt Ion: 45 Resp: 14287
Ion Ratio Lower Upper
45 100
46 38.3 17.1 68.3



#15
Acetone
Concen: 5.256 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 43 Resp: 74138
Ion Ratio Lower Upper
43 100
58 25.6 20.7 31.1

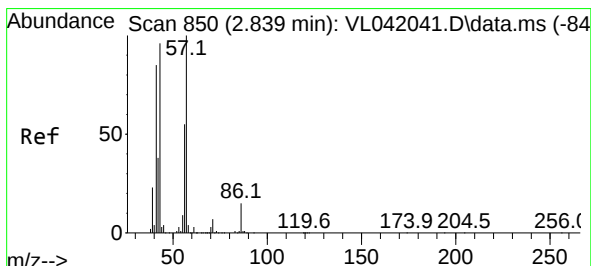
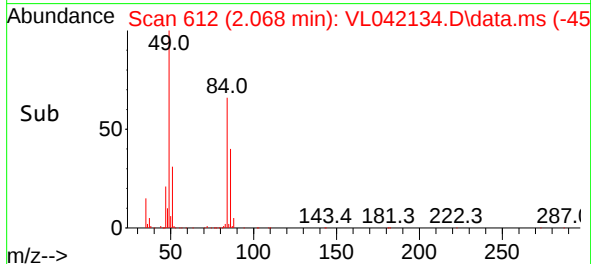
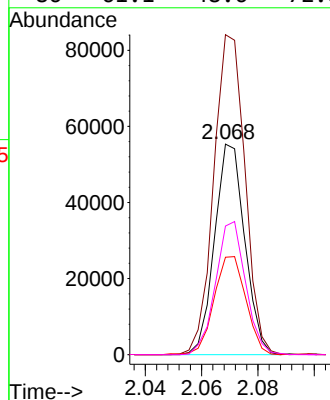
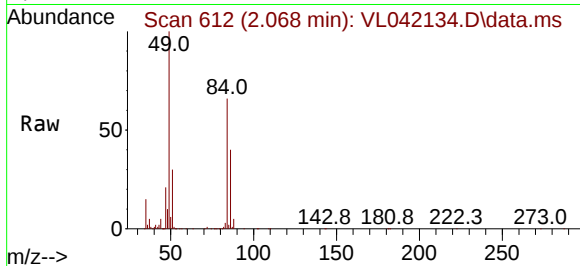




#20
Methylene Chloride
Concen: 7.720 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

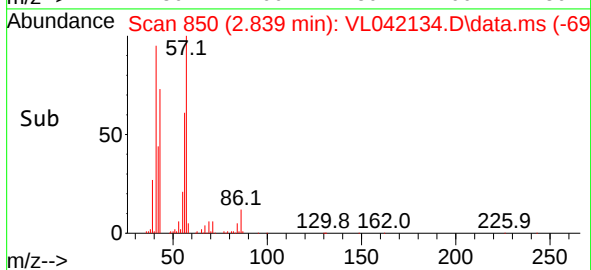
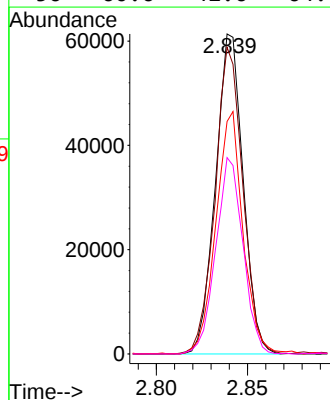
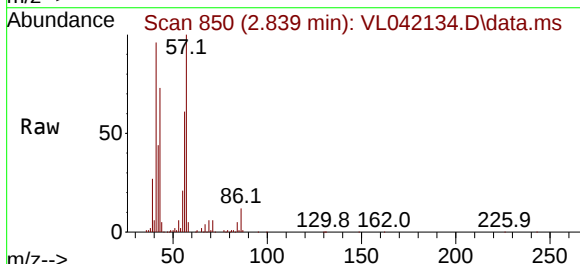
Instrument :
MSVOA_L
ClientSampleId :
OA1

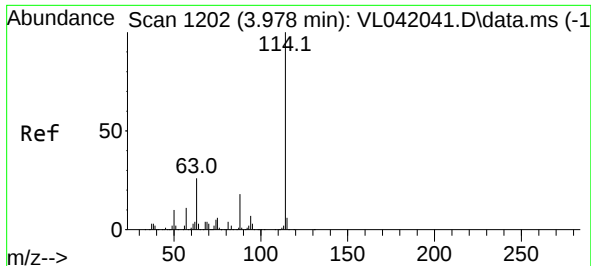
Tgt Ion: 84	Resp: 41194		
Ion	Ratio	Lower	Upper
84	100		
49	151.6	130.0	195.0
51	46.3	37.4	56.0
86	61.1	48.6	72.8



#26
Hexane
Concen: 2.827 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 57	Resp: 64539
Ion Ratio	Lower Upper
57 100	
41 97.2	70.6 106.0
43 75.1	199.4 299.0#
56 60.6	42.6 64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042134.D

Acq: 10 Mar 2025 20:03

Instrument :

MSVOA_L

ClientSampleId :

OA1

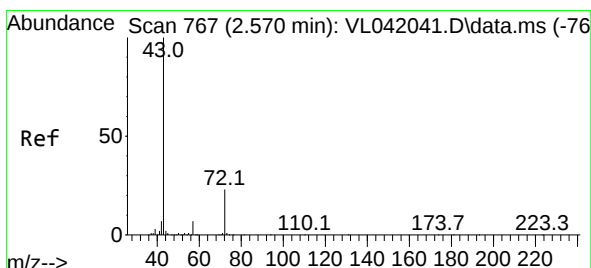
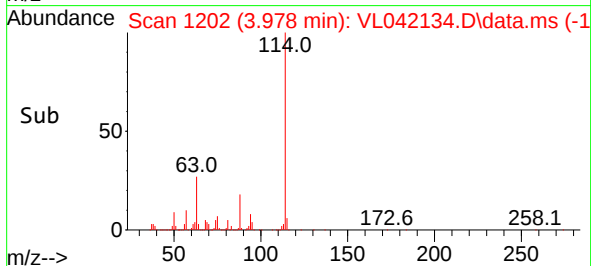
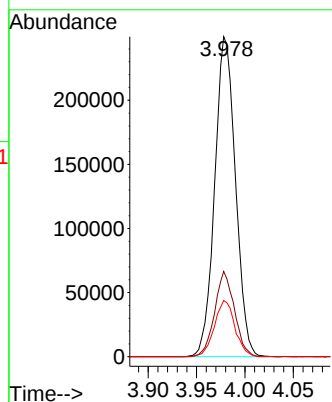
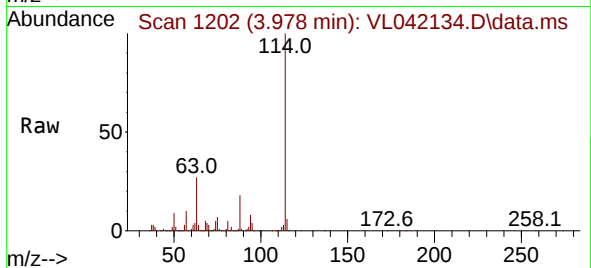
Tgt Ion:114 Resp: 372131

Ion Ratio Lower Upper

114 100

63 25.4 20.1 30.1

88 17.4 14.3 21.5



#34

2-Butanone

Concen: 0.159 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.006 min

Lab File: VL042134.D

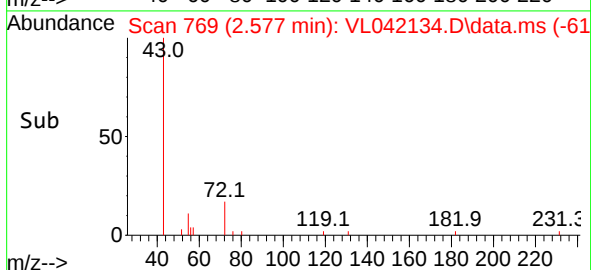
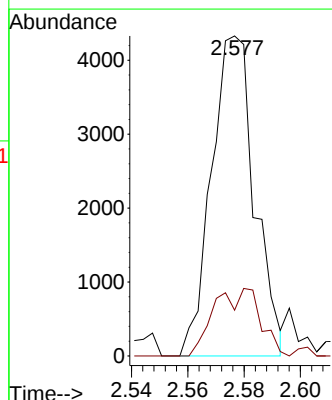
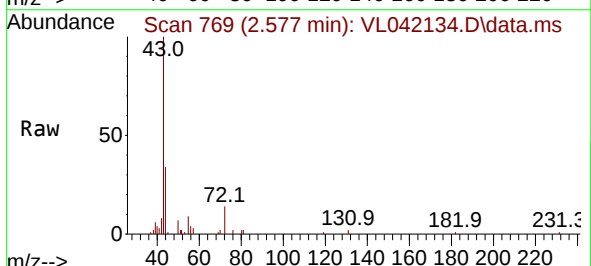
Acq: 10 Mar 2025 20:03

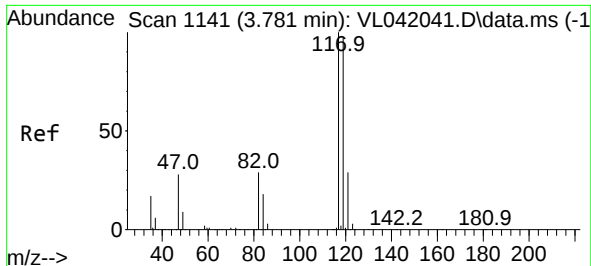
Tgt Ion: 43 Resp: 4611

Ion Ratio Lower Upper

43 100

72 23.6 18.5 27.7

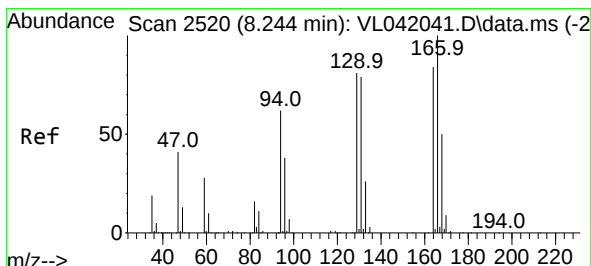
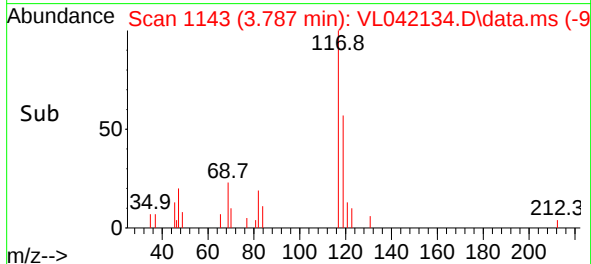
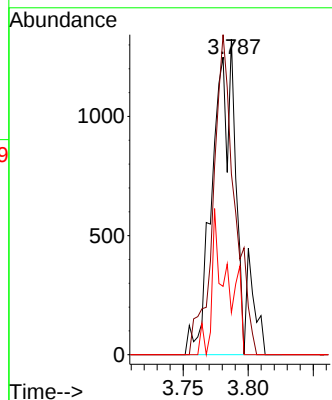
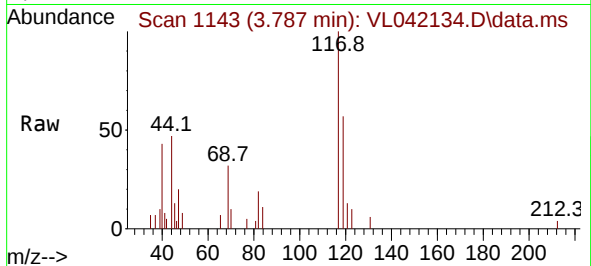




#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.787 min Scan# 1141
Delta R.T. 0.006 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

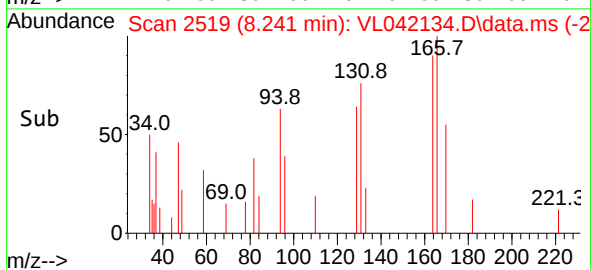
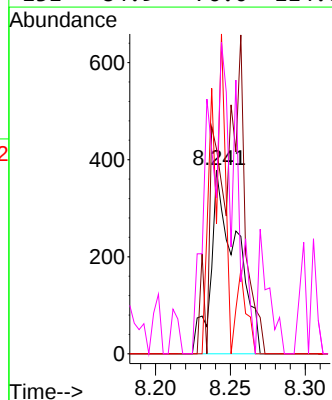
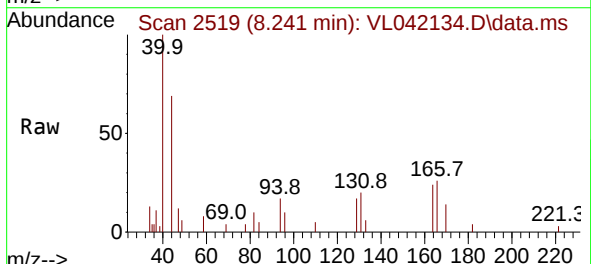
Instrument :
MSVOA_L
ClientSampleId :
OA1

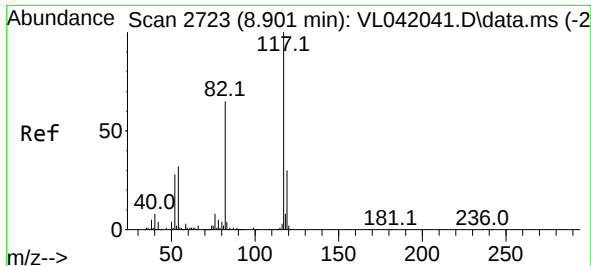
Tgt Ion:117 Resp: 1755
Ion Ratio Lower Upper
117 100
119 57.3 77.8 116.8#
121 13.4 23.4 35.0#



#52
Tetrachloroethene
Concen: 0.034 ppbv m
RT: 8.241 min Scan# 2519
Delta R.T. -0.003 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion:164 Resp: 453
Ion Ratio Lower Upper
164 100
166 111.6 95.7 143.5
129 70.9 77.1 115.7#
131 84.9 76.0 114.0

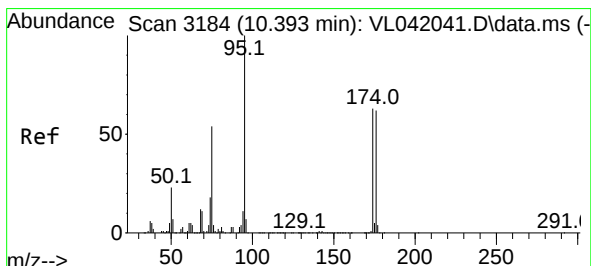
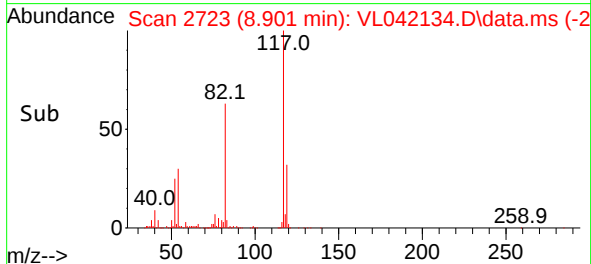
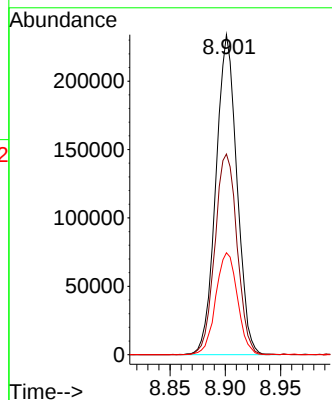
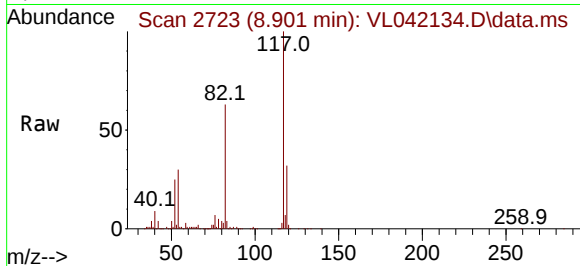




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

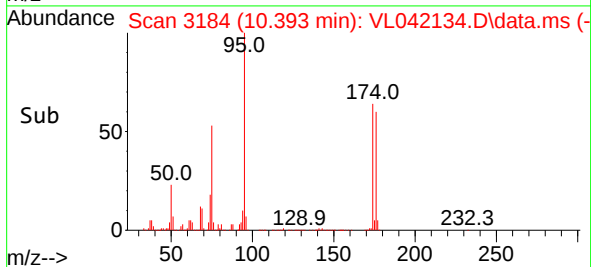
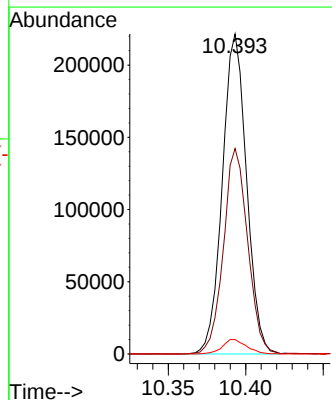
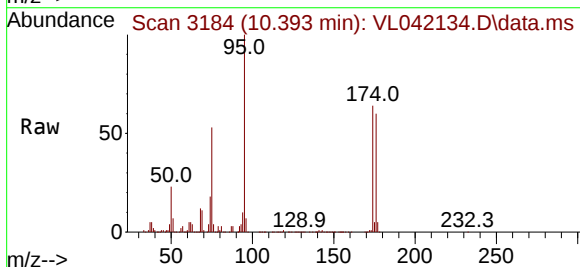
Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:117 Resp: 309256
Ion Ratio Lower Upper
117 100
82 66.3 55.0 82.6
119 32.9 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 95 Resp: 240649
Ion Ratio Lower Upper
95 100
174 64.6 51.8 77.6
175 4.5 3.9 5.9





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1533 SAS No.: Q1533 SDG No.: Q1533
 Instrument ID: MSVOA_L Calibration Date(s): 02/25/2025 02/25/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:56 12:07
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042041.D		RRF002 = VL042042.D		RRF001 = VL042043.D		
		RRF0.5 = VL042044.D		RRF0.1 = VL042045.D		RRF.03 = VL042046.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.337	0.361	0.346	0.376	0.336	0.447	0.364	10.9
1,1-Dichloroethene	0.320	0.386	0.437	0.398			0.376	12.6
cis-1,2-Dichloroethene	1.237	1.450	1.401	1.421			1.353	7.3
1,1,1-Trichloroethane	1.771	1.944	1.916	1.883	1.875	1.921	1.866	4.1
Trichloroethene	0.378	0.447	0.447	0.433	0.462	0.447	0.427	8.1
Tetrachloroethene	0.327	0.385	0.383	0.380	0.374	0.322	0.358	7.9
1-Bromo-4-Fluorobenzene	0.764	0.765	0.777	0.768	0.760	0.773	0.769	0.9

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL022525AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3) Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4) Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5) T Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6) T Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7) Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8) T Dichlorotetra...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9) T Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10) T Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11) T Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12) T 1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13) Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14) T Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15) T Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16) T 1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17) tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18) T 1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19) T Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20) T Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21) T Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22) T trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23) T Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24) T 1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25) T Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26) T Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27) T Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28) T Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29) T Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30) T Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31) T cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32) T 1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35) T Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36) T Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37) T 1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38) T Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39) T 1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL022525AIR.M											
40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2-...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	285943	9.263	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 289049 9.273 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

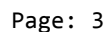
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

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

Manual Integrations

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	31354m	0.854	ppbv	
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	915m	0.614	ppbv	
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv	
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv	
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv	
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv	97
49) Bromoform	9.500	173	23310	0.858	ppbv	94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv	
51) 2-Hexanone	7.470	43	24117	0.527	ppbv #	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv	89
53) Toluene	6.959	91	51231	0.838	ppbv	99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv	97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv	96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv	97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv	
60) o-Xylene	9.979	91	57322	0.889	ppbv	99
61) Styrene	9.885	104	26596	0.865	ppbv	98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv	98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv	94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv	99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv	
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv	99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv	99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv	98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv	98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv	99
79) Naphthalene	13.526	128	45743	0.665	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv	94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 281042 9.310 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv	
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv	
49) Bromoform	9.496	173	11640	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv	
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv	
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv	95
53) Toluene	6.956	91	24224	0.398	ppbv	96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv #	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv	97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv	90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv	
60) o-Xylene	9.979	91	28757	0.451	ppbv	95
61) Styrene	9.885	104	12051	0.396	ppbv	99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv	96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv	100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv	98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv #	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv	97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv	95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv	99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv	99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv	91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv	97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv	96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv	93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv	99
79) Naphthalene	13.523	128	17897	0.263	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042045.D
 Acq On : 25 Feb 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
5) Vinyl Chloride	1.586	62	543	0.042	ppbv #	88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv #	86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv #	91

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

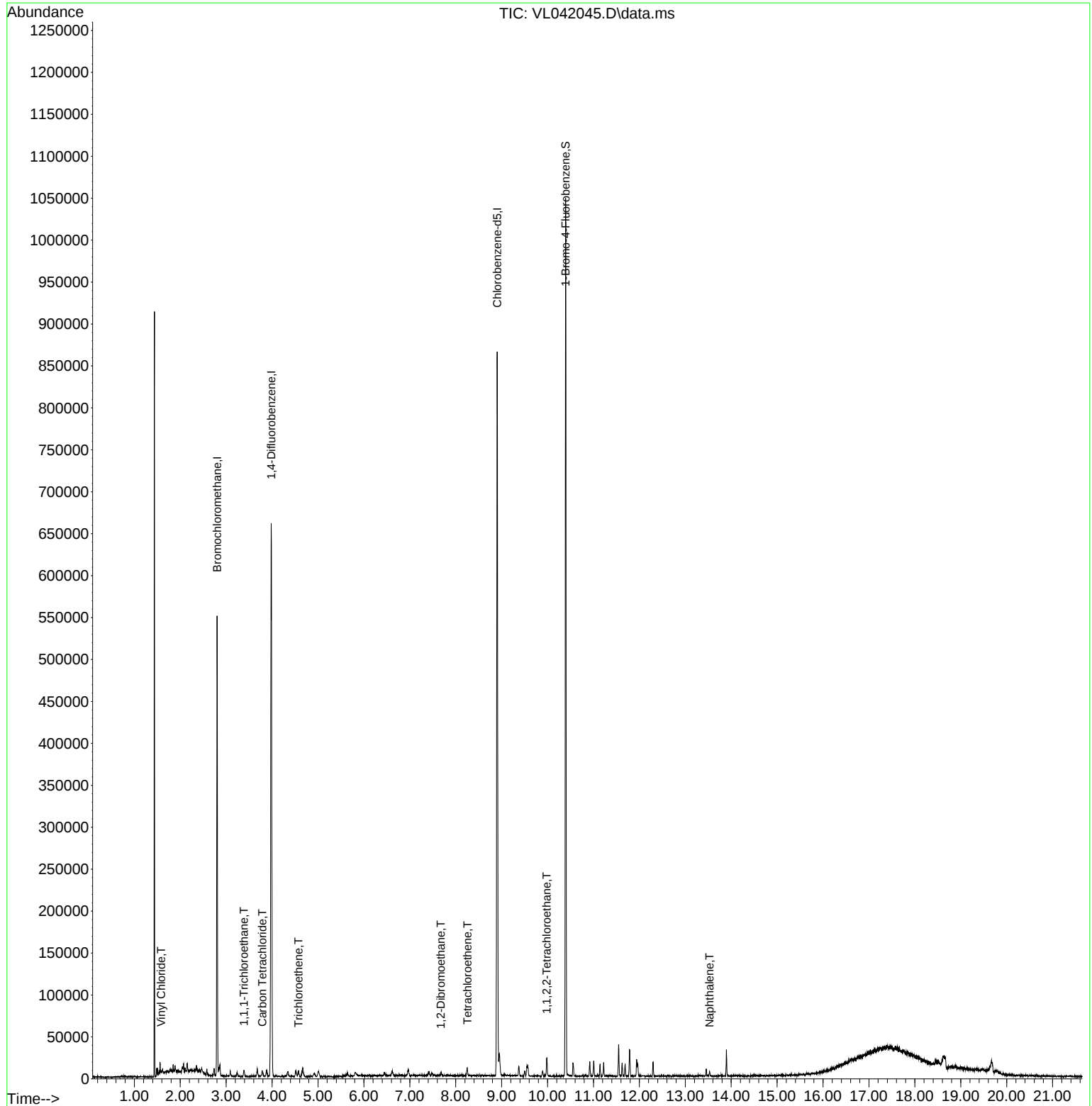
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042046.D
 Acq On : 25 Feb 2025 11:34
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%

Target Compounds	Qvalue

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

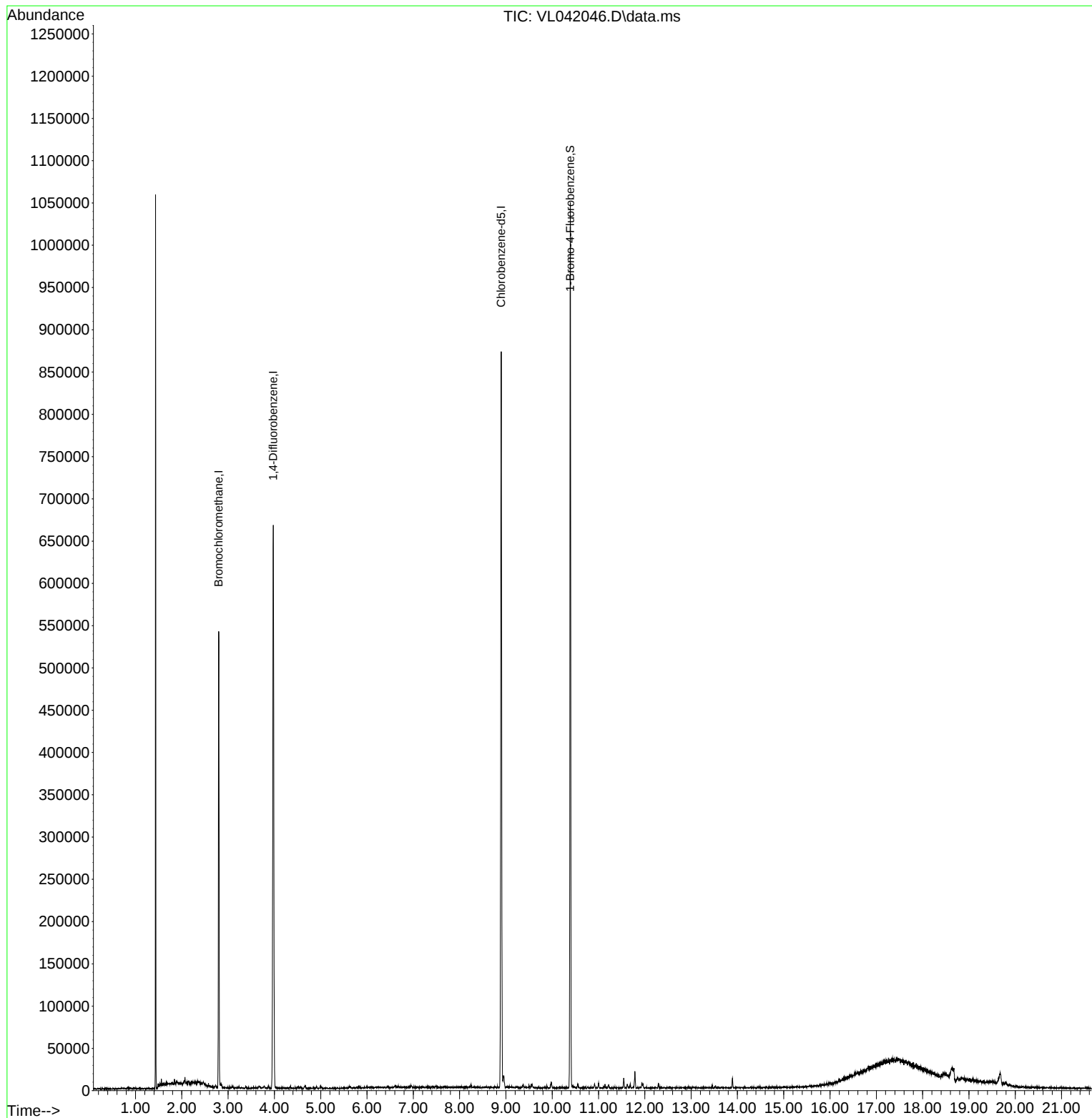
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	158881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv	99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv	100
4) Chloromethane	1.537	50	54628	8.941	ppbv	100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv	98
6) Bromomethane	1.673	94	25374	9.221	ppbv	100
7) Chloroethane	1.709	64	22174	9.443	ppbv #	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv	100
9) Propene	1.489	41	90844	9.657	ppbv	96
10) Heptane	5.010	43	269133	9.188	ppbv	99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv	99
13) Ethanol	1.728	45	2630	4.404	ppbv	98
14) Bromoethene	1.790	108	43546	9.338	ppbv	98
15) Acetone	1.842	43	118697	8.460	ppbv	97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv	98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv	98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv	98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv	96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv	96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv	98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv	100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv	99
26) Hexane	2.839	57	208955	9.203	ppbv	97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv	97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv	100
29) Chloroform	2.865	83	281191	9.202	ppbv	97
30) Cyclohexane	3.878	84	168830	9.161	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv	98
34) 2-Butanone	2.570	43	308064	9.727	ppbv	97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv	98
36) Benzene	3.677	78	399804	9.395	ppbv	98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv	99
38) Trichloroethene	4.573	130	156488	9.005	ppbv	96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv	97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv #	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv	99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv	97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv	95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv	99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv	96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv	95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv	100
49) Bromoform	9.503	173	210370	9.432	ppbv	98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv	98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv #	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv	97
53) Toluene	6.962	91	448495	9.430	ppbv	98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv	99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv	99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv	99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv	
60) o-Xylene	9.985	91	481683	9.334	ppbv	100
61) Styrene	9.891	104	241617	9.959	ppbv	99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv	99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv	99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv	100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv	98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv	99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv	100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv	99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv	100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv	95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv	99
79) Naphthalene	13.529	128	513148	12.160	ppbv	98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3	Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4	Chloromethane	0.385	0.344	10.6	99	0.00
5 T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6 T	Bromomethane	0.173	0.160	7.5	98	0.00
7	Chloroethane	0.148	0.140	5.4	102	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9 T	Propene	0.592	0.572	3.4	108	0.00
10 T	Heptane	1.844	1.694	8.1	100	0.00
11 T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13	Ethanol	0.038	0.017#	55.3#	83	0.00
14 T	Bromoethene	0.293	0.274	6.5	103	0.00
15 T	Acetone	0.883	0.747	15.4	103	0.00
16 T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17	tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18 T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20 T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21 T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23 T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24 T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25 T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26 T	Hexane	1.429	1.315	8.0	101	0.00
27 T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29 T	Chloroform	1.923	1.770	8.0	101	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32 T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.779	0.758	2.7	105	0.00
35 T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36 T	Benzene	1.047	0.983	6.1	98	0.00
37 T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	98	0.00
39 T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40 T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41 T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42 T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43	Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45 T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47 T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48 T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.517	5.8	95	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51 T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52 T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53 T	Toluene	1.170	1.103	5.7	97	0.00
54 T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57 T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58 T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59 T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60 T	o-Xylene	1.473	1.375	6.7	98	0.00
61 T	Styrene	0.693	0.690	0.4	98	0.00
62	Isopropylbenzene	2.207	2.082	5.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64	n-propylbenzene	0.579	0.550	5.0	98	0.00
65	tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66 T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67	sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69	p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70	n-Butylbenzene	2.332	2.230	4.4	101	0.00
71	2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72 T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75 T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79 T	Naphthalene	1.205	1.465	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	10.000	9.606	3.9	104	0.00
3	Chlorodifluoromethane	10.000	9.512	4.9	104	0.00
4	Chloromethane	10.000	8.941	10.6	99	0.00
5 T	Vinyl Chloride	10.000	9.114	8.9	97	0.00
6 T	Bromomethane	10.000	9.221	7.8	98	0.00
7	Chloroethane	10.000	9.443	5.6	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.354	6.5	101	0.00
9 T	Propene	10.000	9.657	3.4	108	0.00
10 T	Heptane	10.000	9.188	8.1	100	0.00
11 T	Trichlorofluoromethane	10.000	9.476	5.2	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.715	12.9	102	0.00
13	Ethanol	10.000	4.404	56.0#	83	0.00
14 T	Bromoethene	10.000	9.338	6.6	103	0.00
15 T	Acetone	10.000	8.460	15.4	103	0.00
16 T	1,3-Butadiene	10.000	9.434	5.7	107	0.00
17	tert-Butyl alcohol	10.000	8.779	12.2	101	0.00
18 T	1,1-Dichloroethene	10.000	8.711	12.9	101	0.00
19 T	Isopropyl Alcohol	10.000	8.629	13.7	103	0.00
20 T	Methylene Chloride	10.000	7.919	20.8	100	0.00
21 T	Allyl Chloride	10.000	8.951	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.502	15.0	103	0.00
23 T	Vinyl Acetate	10.000	9.488	5.1	112	0.00
24 T	1,1-Dichloroethane	10.000	8.721	12.8	105	0.00
25 T	Ethyl Acetate	10.000	9.492	5.1	104	0.00
26 T	Hexane	10.000	9.203	8.0	101	0.00
27 T	Carbon Disulfide	10.000	8.978	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.365	16.3	112	0.00
29 T	Chloroform	10.000	9.202	8.0	101	0.00
30 T	Cyclohexane	10.000	9.161	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.285	7.1	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.396	6.0	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	96	0.00
34 T	2-Butanone	10.000	9.727	2.7	105	0.00
35 T	Carbon Tetrachloride	10.000	9.867	1.3	100	0.00
36 T	Benzene	10.000	9.395	6.1	98	0.00
37 T	1,2-Dichloroethane	10.000	9.491	5.1	102	0.00
38 T	Trichloroethene	10.000	9.005	9.9	98	0.00
39 T	1,2-Dichloropropane	10.000	9.414	5.9	101	0.00
40 T	1,4-Dioxane	10.000	8.817	11.8	94	0.00
41 T	Tetrahydrofuran	10.000	9.696	3.0	103	0.00
42 T	Bromodichloromethane	10.000	9.606	3.9	98	0.00
43	Methyl Methacrylate	10.000	9.685	3.1	97	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.480	5.2	101	0.00
45 T	t-1,3-Dichloropropene	10.000	9.671	3.3	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.680	3.2	95	0.00
47 T	1,1,2-Trichloroethane	10.000	9.039	9.6	97	0.00
48 T	Dibromochloromethane	10.000	9.407	5.9	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.432	5.7	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.526	-5.3	101	0.00
51 T	2-Hexanone	10.000	12.576	-25.8	101	0.00
52 T	Tetrachloroethene	10.000	9.202	8.0	97	0.00
53 T	Toluene	10.000	9.430	5.7	97	0.00
54 T	1,2-Dibromoethane	10.000	9.307	6.9	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.234	7.7	97	0.00
57 T	Chlorobenzene	10.000	9.216	7.8	98	0.00
58 T	Ethyl Benzene	10.000	9.513	4.9	97	0.00
59 T	m/p-Xylene	20.000	19.041	4.8	98	0.02
60 T	o-Xylene	10.000	9.334	6.7	98	0.00
61 T	Styrene	10.000	9.959	0.4	98	0.00
62	Isopropylbenzene	10.000	9.437	5.6	99	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.204	8.0	99	0.00
64	n-propylbenzene	10.000	9.506	4.9	98	0.00
65	tert-Butylbenzene	10.000	8.988	10.1	97	0.00
66 T	Benzyl Chloride	10.000	9.808	1.9	92	0.00
67	sec-Butylbenzene	10.000	9.090	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.188	-1.9	96	0.00
69	p-Isopropyltoluene	10.000	9.418	5.8	100	0.00
70	n-Butylbenzene	10.000	9.560	4.4	101	0.00
71	2-Chlorotoluene	10.000	9.399	6.0	99	0.00
72 T	4-Ethyltoluene	10.000	9.557	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.248	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.891	11.1	99	0.00
75 T	1,3-Dichlorobenzene	10.000	9.161	8.4	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.176	8.2	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.081	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.543	14.6	96	0.00
79 T	Naphthalene	10.000	12.160	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	10.000	17.152	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.965	0.4	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1533 SAS No.: Q1533 SDG No.: Q1533

Instrument ID: MSVOA_L Calibration Date/Time: 03/10/2025 09:08

Lab File ID: VL042115.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.364	0.383		5.22	30
1,1-Dichloroethene	0.376	0.364		-3.19	30
cis-1,2-Dichloroethene	1.353	1.052		-22.25	30
1,1,1-Trichloroethane	1.866	1.485		-20.42	30
Trichloroethene	0.427	0.360		-15.69	30
Tetrachloroethene	0.358	0.306		-14.52	30
1-Bromo-4-Fluorobenzene	0.769	0.815		5.98	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	165085	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	392891	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	342991	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	279482	10.591	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.900%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	176674	10.292	ppbv	100
3) Chlorodifluoromethane	1.479	51	214625	8.945	ppbv	100
4) Chloromethane	1.538	50	66603	10.491	ppbv	99
5) Vinyl Chloride	1.586	62	63194	10.524	ppbv	99
6) Bromomethane	1.674	94	31189	10.908	ppbv	95
7) Chloroethane	1.709	64	25650	10.513	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	149265	10.577	ppbv	96
9) Propene	1.489	41	84787	8.674	ppbv	97
10) Heptane	5.004	43	250763	8.240	ppbv	99
11) Trichlorofluoromethane	1.884	101	186477	10.841	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	135213	9.855	ppbv	95
13) Ethanol	1.729	45	4581	7.383	ppbv	100
14) Bromoethene	1.787	108	49525	10.221	ppbv	99
15) Acetone	1.842	43	143215	9.824	ppbv	98
16) 1,3-Butadiene	1.615	39	69593	10.258	ppbv	97
17) tert-Butyl alcohol	2.049	59	159834	8.763	ppbv	99
18) 1,1-Dichloroethene	2.043	96	60058	9.687	ppbv	93
19) Isopropyl Alcohol	1.894	45	80799	9.648	ppbv	95
20) Methylene Chloride	2.068	84	54929	9.961	ppbv	94
21) Allyl Chloride	2.104	41	103183	9.796	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	72057	9.970	ppbv	93
23) Vinyl Acetate	2.473	43	75424	7.358	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	139243	10.354	ppbv	99
25) Ethyl Acetate	2.848	43	504073	8.638	ppbv	99
26) Hexane	2.839	57	200177	8.485	ppbv	97
27) Carbon Disulfide	2.159	76	161105	10.074	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	124414	10.593	ppbv	96
29) Chloroform	2.861	83	278501	8.771	ppbv	97
30) Cyclohexane	3.874	84	154573	8.072	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	173603	7.774	ppbv	98
32) 1,1,1-Trichloroethane	3.382	97	245078	7.957	ppbv	95
34) 2-Butanone	2.570	43	280396	9.161	ppbv	96
35) Carbon Tetrachloride	3.777	117	263471	9.725	ppbv	96
36) Benzene	3.671	78	373628	9.084	ppbv	99
37) 1,2-Dichloroethane	3.234	62	197592	8.665	ppbv	100
38) Trichloroethene	4.567	130	141399	8.419	ppbv	91
39) 1,2-Dichloropropane	4.331	63	143609	9.199	ppbv	96
40) 1,4-Dioxane	4.609	88	66354	9.311	ppbv #	98
41) Tetrahydrofuran	3.069	42	160836	8.893	ppbv	96
42) Bromodichloromethane	4.509	83	282060	9.180	ppbv	98
43) Methyl Methacrylate	4.907	69	131818	8.207	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	672958	9.271	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	120441	7.547	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	168796	8.174	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	144966m	9.147	ppbv	
48) Dibromochloromethane	7.406	129	223556	9.006	ppbv	98
49) Bromoform	9.500	173	202719	9.404	ppbv	98
50) 4-Methyl-2-Pentanone	5.784	43	384115	9.703	ppbv	98
51) 2-Hexanone	7.457	43	305375	11.208	ppbv #	98
52) Tetrachloroethene	8.244	164	120090	8.529	ppbv	97
53) Toluene	6.959	91	388571	8.453	ppbv	99
54) 1,2-Dibromoethane	7.671	107	189652	8.851	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	184992	9.542	ppbv	99
57) Chlorobenzene	8.937	112	330038	9.281	ppbv	99
58) Ethyl Benzene	9.370	91	549396	8.698	ppbv	100
59) m/p-Xylene	9.564	91	930397m	18.509	ppbv	
60) o-Xylene	9.979	91	466520	9.232	ppbv	98
61) Styrene	9.885	104	204092	8.590	ppbv	98
62) Isopropylbenzene	10.552	105	696113	9.198	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	327603	9.844	ppbv	99
64) n-propylbenzene	11.002	120	187705	9.455	ppbv	99
65) tert-Butylbenzene	11.542	119	627319	9.108	ppbv	99
66) Benzyl Chloride	11.626	91	43097	8.200	ppbv	100
67) sec-Butylbenzene	11.782	105	899556	9.132	ppbv	99
69) p-Isopropyltoluene	11.937	119	744068	9.494	ppbv	99
70) n-Butylbenzene	12.293	91	759905	9.499	ppbv	99
71) 2-Chlorotoluene	10.914	91	515375	8.834	ppbv	99
72) 4-Ethyltoluene	11.137	105	566348	9.179	ppbv	100
73) 1,3,5-Trimethylbenzene	11.218	105	480409	8.976	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	550074	9.127	ppbv	95
75) 1,3-Dichlorobenzene	11.620	146	325514	9.385	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	321685	9.341	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	322300	9.575	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	221283	8.449	ppbv	100
79) Naphthalene	13.526	128	470224	11.379	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	147775	13.067	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	214425	9.311	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	1.040	1.070	-2.9	116	0.00
3	Chlorodifluoromethane	1.453	1.300	10.5	102	0.00
4	Chloromethane	0.385	0.403	-4.7	120	0.00
5 T	Vinyl Chloride	0.364	0.383	-5.2	117	0.00
6 T	Bromomethane	0.173	0.189	-9.2	121	0.00
7	Chloroethane	0.148	0.155	-4.7	118	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.904	-5.7	119	0.00
9 T	Propene	0.592	0.514	13.2	101	0.00
10 T	Heptane	1.844	1.519	17.6	94	0.00
11 T	Trichlorofluoromethane	1.042	1.130	-8.4	123	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.819	1.4	120	0.00
13	Ethanol	0.038	0.028#	26.3	144	0.00
14 T	Bromoethene	0.293	0.300	-2.4	117	0.00
15 T	Acetone	0.883	0.868	1.7	124	0.00
16 T	1,3-Butadiene	0.411	0.422	-2.7	121	0.00
17	tert-Butyl alcohol	1.105	0.968	12.4	104	0.00
18 T	1,1-Dichloroethene	0.376	0.364	3.2	117	0.00
19 T	Isopropyl Alcohol	0.507	0.489	3.6	120	0.00
20 T	Methylene Chloride	0.334	0.333	0.3	131	0.00
21 T	Allyl Chloride	0.638	0.625	2.0	119	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.436	0.5	125	0.00
23 T	Vinyl Acetate	0.621	0.457	26.4	90	0.00
24 T	1,1-Dichloroethane	0.815	0.843	-3.4	129	0.00
25 T	Ethyl Acetate	3.535	3.053	13.6	99	0.00
26 T	Hexane	1.429	1.213	15.1	97	0.00
27 T	Carbon Disulfide	0.969	0.976	-0.7	117	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.754	-6.0	148	0.00
29 T	Chloroform	1.923	1.687	12.3	100	0.00
30 T	Cyclohexane	1.160	0.936	19.3	89	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.052	22.2	87	0.00
32 T	1,1,1-Trichloroethane	1.866	1.485	20.4	86	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.779	0.714	8.3	96	0.00
35 T	Carbon Tetrachloride	0.690	0.671	2.8	95	0.00
36 T	Benzene	1.047	0.951	9.2	91	0.00
37 T	1,2-Dichloroethane	0.580	0.503	13.3	90	0.00
38 T	Trichloroethene	0.427	0.360	15.7	88	0.00
39 T	1,2-Dichloropropane	0.397	0.366	7.8	95	0.00
40 T	1,4-Dioxane	0.181	0.169	6.6	96	0.00
41 T	Tetrahydrofuran	0.460	0.409	11.1	91	0.00
42 T	Bromodichloromethane	0.782	0.718	8.2	90	0.00
43	Methyl Methacrylate	0.409	0.336	17.8	80	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.713	7.3	95	0.00
45 T	t-1,3-Dichloropropene	0.406	0.307	24.4	72	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.430	18.3	77	0.00
47 T	1,1,2-Trichloroethane	0.403	0.369	8.4	95	0.00
48 T	Dibromochloromethane	0.632	0.569	10.0	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.516	6.0	91	0.00
50 T	4-Methyl-2-Pentanone	1.008	0.978	3.0	90	0.00
51 T	2-Hexanone	0.693	0.777	-12.1	87	0.00
52 T	Tetrachloroethene	0.358	0.306	14.5	87	0.00
53 T	Toluene	1.170	0.989	15.5	84	0.00
54 T	1,2-Dibromoethane	0.545	0.483	11.4	90	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.539	4.6	98	0.00
57 T	Chlorobenzene	1.037	0.962	7.2	97	0.00
58 T	Ethyl Benzene	1.842	1.602	13.0	87	0.00
59 T	m/p-Xylene	1.466	1.356	7.5	93	0.01
60 T	o-Xylene	1.473	1.360	7.7	95	0.00
61 T	Styrene	0.693	0.595	14.1	83	0.00
62	Isopropylbenzene	2.207	2.030	8.0	94	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.955	1.5	103	0.00
64	n-propylbenzene	0.579	0.547	5.5	96	0.00
65	tert-Butylbenzene	2.008	1.829	8.9	97	0.00
66 T	Benzyl Chloride	0.153	0.126	17.6	75	0.00
67	sec-Butylbenzene	2.872	2.623	8.7	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.815	-6.0	98	0.00
69	p-Isopropyltoluene	2.285	2.169	5.1	98	0.00
70	n-Butylbenzene	2.332	2.216	5.0	98	0.00
71	2-Chlorotoluene	1.701	1.503	11.6	91	0.00
72 T	4-Ethyltoluene	1.799	1.651	8.2	93	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.401	10.2	93	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.604	8.7	100	0.00
75 T	1,3-Dichlorobenzene	1.011	0.949	6.1	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.938	6.6	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.940	4.2	103	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.645	15.6	93	0.00
79 T	Naphthalene	1.205	1.371	-13.8	92	0.00
80 T	Naphthalene,2-methyl-	0.330	0.431	-30.6#	70	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.625	6.9	89	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	102	0.00
2 T	Dichlorodifluoromethane	10.000	10.292	-2.9	116	0.00
3	Chlorodifluoromethane	10.000	8.945	10.5	102	0.00
4	Chloromethane	10.000	10.491	-4.9	120	0.00
5 T	Vinyl Chloride	10.000	10.524	-5.2	117	0.00
6 T	Bromomethane	10.000	10.908	-9.1	121	0.00
7	Chloroethane	10.000	10.513	-5.1	118	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.577	-5.8	119	0.00
9 T	Propene	10.000	8.674	13.3	101	0.00
10 T	Heptane	10.000	8.240	17.6	94	0.00
11 T	Trichlorofluoromethane	10.000	10.841	-8.4	123	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.855	1.4	120	0.00
13	Ethanol	10.000	7.383	26.2	144	0.00
14 T	Bromoethene	10.000	10.221	-2.2	117	0.00
15 T	Acetone	10.000	9.824	1.8	124	0.00
16 T	1,3-Butadiene	10.000	10.258	-2.6	121	0.00
17	tert-Butyl alcohol	10.000	8.763	12.4	104	0.00
18 T	1,1-Dichloroethene	10.000	9.687	3.1	117	0.00
19 T	Isopropyl Alcohol	10.000	9.648	3.5	120	0.00
20 T	Methylene Chloride	10.000	9.961	0.4	131	0.00
21 T	Allyl Chloride	10.000	9.796	2.0	119	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.970	0.3	125	0.00
23 T	Vinyl Acetate	10.000	7.358	26.4	90	0.00
24 T	1,1-Dichloroethane	10.000	10.354	-3.5	129	0.00
25 T	Ethyl Acetate	10.000	8.638	13.6	99	0.00
26 T	Hexane	10.000	8.485	15.2	97	0.00
27 T	Carbon Disulfide	10.000	10.074	-0.7	117	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.593	-5.9	148	0.00
29 T	Chloroform	10.000	8.771	12.3	100	0.00
30 T	Cyclohexane	10.000	8.072	19.3	89	0.00
31 T	cis-1,2-Dichloroethene	10.000	7.774	22.3	87	0.00
32 T	1,1,1-Trichloroethane	10.000	7.957	20.4	86	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34 T	2-Butanone	10.000	9.161	8.4	96	0.00
35 T	Carbon Tetrachloride	10.000	9.725	2.8	95	0.00
36 T	Benzene	10.000	9.084	9.2	91	0.00
37 T	1,2-Dichloroethane	10.000	8.665	13.4	90	0.00
38 T	Trichloroethene	10.000	8.419	15.8	88	0.00
39 T	1,2-Dichloropropane	10.000	9.199	8.0	95	0.00
40 T	1,4-Dioxane	10.000	9.311	6.9	96	0.00
41 T	Tetrahydrofuran	10.000	8.893	11.1	91	0.00
42 T	Bromodichloromethane	10.000	9.180	8.2	90	0.00
43	Methyl Methacrylate	10.000	8.207	17.9	80	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.271	7.3	95	0.00
45 T	t-1,3-Dichloropropene	10.000	7.547	24.5	72	0.00
46 T	cis-1,3-Dichloropropene	10.000	8.174	18.3	77	0.00
47 T	1,1,2-Trichloroethane	10.000	9.147	8.5	95	0.00
48 T	Dibromochloromethane	10.000	9.006	9.9	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042115.D
 Acq On : 10 Mar 2025 09:08
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 11 01:20:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.404	6.0	91	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.703	3.0	90	0.00
51 T	2-Hexanone	10.000	11.208	-12.1	87	0.00
52 T	Tetrachloroethene	10.000	8.529	14.7	87	0.00
53 T	Toluene	10.000	8.453	15.5	84	0.00
54 T	1,2-Dibromoethane	10.000	8.851	11.5	90	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.542	4.6	98	0.00
57 T	Chlorobenzene	10.000	9.281	7.2	97	0.00
58 T	Ethyl Benzene	10.000	8.698	13.0	87	0.00
59 T	m/p-Xylene	20.000	18.509	7.5	93	0.01
60 T	o-Xylene	10.000	9.232	7.7	95	0.00
61 T	Styrene	10.000	8.590	14.1	83	0.00
62	Isopropylbenzene	10.000	9.198	8.0	94	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.844	1.6	103	0.00
64	n-propylbenzene	10.000	9.455	5.4	96	0.00
65	tert-Butylbenzene	10.000	9.108	8.9	97	0.00
66 T	Benzyl Chloride	10.000	8.200	18.0	75	0.00
67	sec-Butylbenzene	10.000	9.132	8.7	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.591	-5.9	98	0.00
69	p-Isopropyltoluene	10.000	9.494	5.1	98	0.00
70	n-Butylbenzene	10.000	9.499	5.0	98	0.00
71	2-Chlorotoluene	10.000	8.834	11.7	91	0.00
72 T	4-Ethyltoluene	10.000	9.179	8.2	93	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.976	10.2	93	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.127	8.7	100	0.00
75 T	1,3-Dichlorobenzene	10.000	9.385	6.2	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.341	6.6	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.575	4.3	103	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.449	15.5	93	0.00
79 T	Naphthalene	10.000	11.379	-13.8	92	0.00
80 T	Naphthalene,2-methyl-	10.000	13.067	-30.7#	70	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.311	6.9	89	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



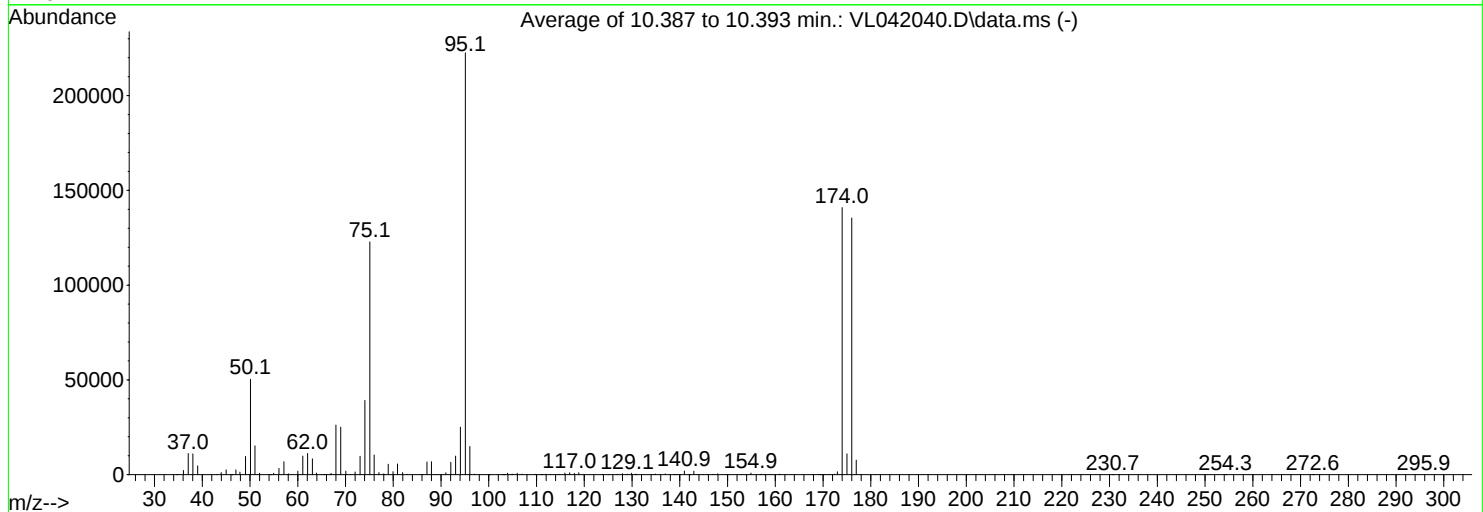
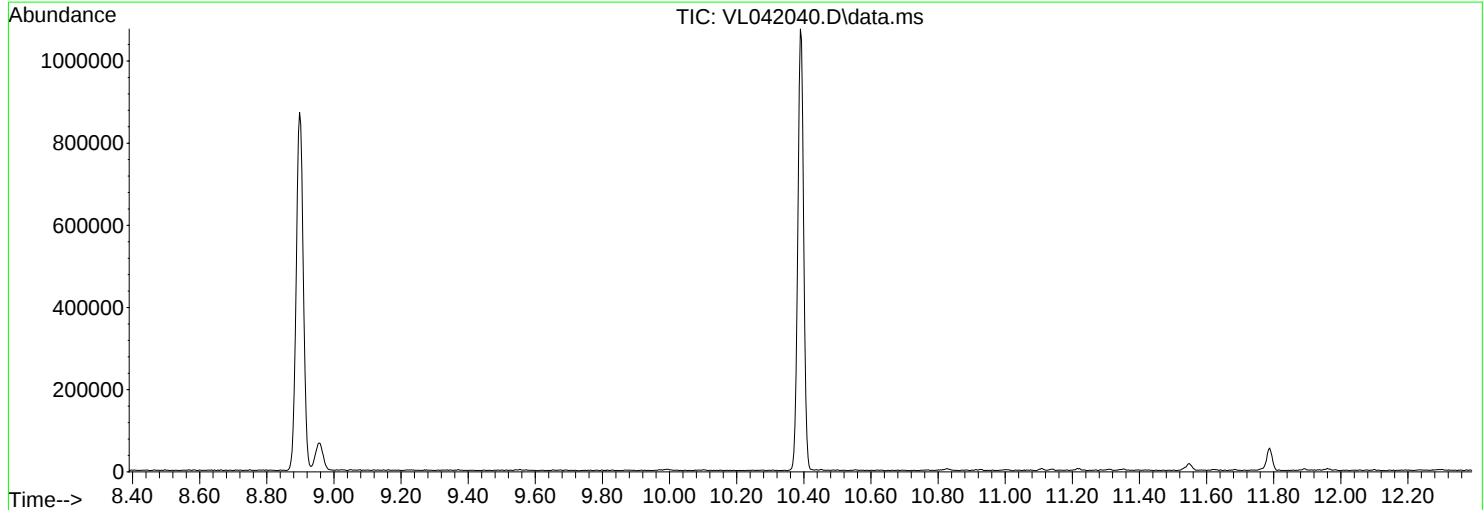
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
34.70	28	47.05	2526	58.05	414	68.00	2618
36.05	2223	47.90	1374	60.00	1900	69.00	2505
37.05	11140	49.05	9623	61.05	9827	70.05	185
38.05	10945	50.10	50320	62.05	11140	71.00	6
39.05	4647	51.05	15242	63.05	8365	72.00	1450
41.85	112	52.00	740	63.95	890	73.05	9731
43.00	126	54.30	17	64.95	122	74.05	39184
43.95	1131	54.95	752	65.40	22	75.10	122859
45.00	2511	56.05	3327	66.10	82	76.00	10406
45.90	77	57.10	6812	66.70	141	77.00	1084
46.20	45	57.90	131	67.00	689	77.90	437

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.10	265	91.00	978	103.95	765	114.85	144
78.95	5465	92.05	6469	104.70	49	115.95	842
79.95	1631	93.05	9774	105.00	247	116.95	1016
80.90	5642	94.05	25088	105.95	752	117.90	687
81.95	1083	95.10	222571	106.95	295	118.85	1016
82.95	188	96.05	14875	109.80	139	123.80	72
85.80	135	97.00	284	110.90	160	124.00	81
86.20	121	99.90	37	111.10	25	125.10	63
87.05	6697	100.10	27	111.95	220	126.90	143
88.00	6841	102.90	35	112.85	148	127.95	520
88.80	63	103.20	35	114.50	51	129.05	303

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.90	788	140.95	1984	150.00	105	167.80	25
130.70	187	141.90	37	152.90	126	169.10	103
130.95	248	142.05	44	153.85	131	169.40	46
134.60	83	142.95	1834	154.90	850	169.95	64
134.95	371	143.65	110	156.00	119	170.40	64
135.90	48	144.95	99	156.85	134	170.60	88
136.95	394	145.75	130	157.10	226	171.25	175
138.90	30	146.00	95	157.70	18	171.90	106
139.50	84	146.85	213	158.00	51	172.40	228
139.90	68	147.90	442	158.90	147	173.00	1534
140.10	99	149.70	178	160.90	256	174.00	140957

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

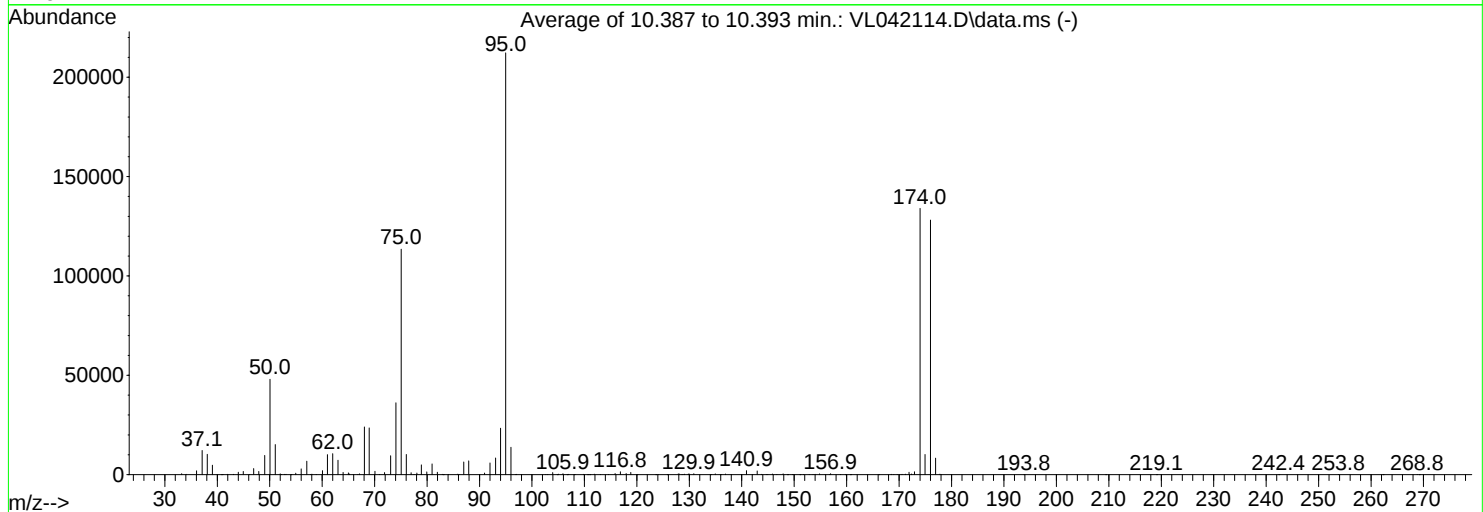
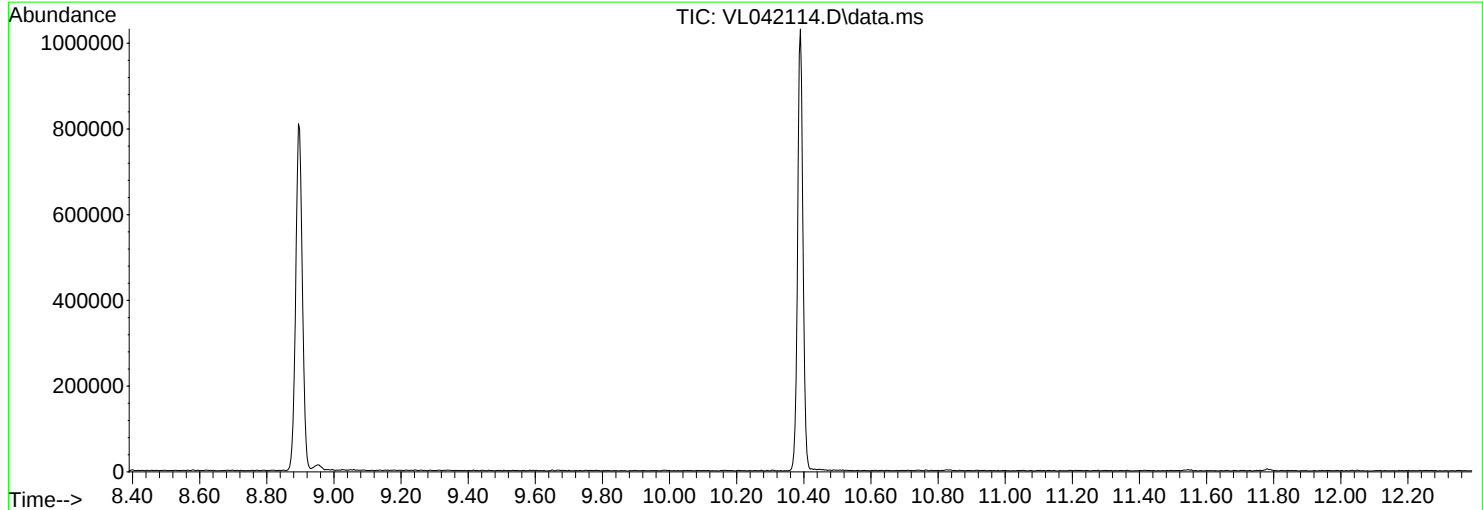
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	11014						
176.00	135437						
176.95	7676						
177.90	161						
180.95	55						
230.70	27						
231.90	20						
254.30	36						
272.60	20						
295.85	67						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042114.D
Acq On : 10 Mar 2025 08:22
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	47960	PASS
75	95	30	66	53.4	113432	PASS
95	95	100	100	100.0	212267	PASS
96	95	5	9	6.5	13780	PASS
173	174	0.00	2	1.1	1482	PASS
174	95	50	120	63.1	133968	PASS
175	174	4	9	7.6	10185	PASS
176	174	93	101	95.6	128123	PASS
177	176	5	9	6.5	8273	PASS

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.20	465	44.95	1598	54.00	39	64.00	116
34.05	168	46.15	119	54.95	693	65.00	88
36.05	1968	46.95	3029	56.00	2870	65.20	34
37.10	12192	47.90	1628	57.05	6764	65.95	10
38.10	10213	49.05	9673	57.80	118	66.80	118
39.05	4743	50.05	47960	58.05	226	67.10	378
40.80	18	51.05	15126	58.85	49	68.05	24019
41.10	66	52.00	396	60.05	2001	68.95	23553
41.95	154	52.20	112	61.00	10067	70.05	1668
43.10	145	52.85	191	62.00	10530	70.90	109
44.00	1208	53.10	145	63.00	7241	71.90	1051

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.05	9509	82.90	135	95.00	212267	106.70	37
74.05	36173	83.10	42	96.00	13780	107.00	181
75.05	113432	84.05	65	96.90	114	108.00	24
76.05	10118	85.85	220	97.05	154	108.20	48
76.95	1002	86.10	67	98.00	63	109.85	130
77.50	106	87.00	6347	102.65	71	110.60	31
78.05	842	87.95	6894	103.00	48	111.00	42
78.90	4958	90.95	841	103.95	1039	111.90	210
79.95	1412	92.00	5925	104.80	28	113.05	100
80.95	5386	93.05	8354	105.05	277	114.60	109
81.95	1178	94.00	23376	105.90	499	115.85	554

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.85	1451	129.05	243	142.10	123	149.90	100
117.95	597	129.80	213	142.95	1873	151.10	29
118.85	1147	129.95	425	143.80	165	151.75	56
120.00	23	130.85	484	144.70	83	152.85	117
123.60	47	134.00	39	144.95	114	153.60	57
124.05	51	134.95	380	145.85	313	154.00	140
125.80	27	135.90	17	146.70	63	154.85	437
127.90	416	136.90	317	147.90	409	155.90	113
128.10	302	138.00	62	148.70	32	156.70	127
128.60	62	139.95	106	148.85	114	156.95	508
128.80	108	140.90	2004	149.70	103	158.85	115

Average of 10.387 to 10.393 min.: VL042114.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.80	24	172.40	289	242.40	30		
160.70	32	172.95	1482	253.80	72		
160.95	114	174.00	133968	262.30	18		
166.10	44	174.95	10185	268.80	68		
168.50	164	176.00	128123	269.20	26		
169.00	60	176.95	8273				
169.65	52	177.80	239				
170.10	55	178.00	55				
170.55	133	193.80	42				
171.20	216	209.40	18				
171.90	1192	219.10	27				

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	3555 Victory Blvd, Staten Island NY	Date Received:	
Client Sample ID:	VL0310ABL01	SDG No.:	Q1533
Lab Sample ID:	VL0310ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042116.D	1		03/10/25 09:54	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	162000		2.797			
540-36-3	1,4-Difluorobenzene	386000		3.972			
3114-55-4	Chlorobenzene-d5	325000		8.895			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042116.D
 Acq On : 10 Mar 2025 09:54
 Operator : SY/MD
 Sample : VL0310ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABL01

Quant Time: Mar 11 01:21:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	162394	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	386417	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	325291	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	247682	9.897	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

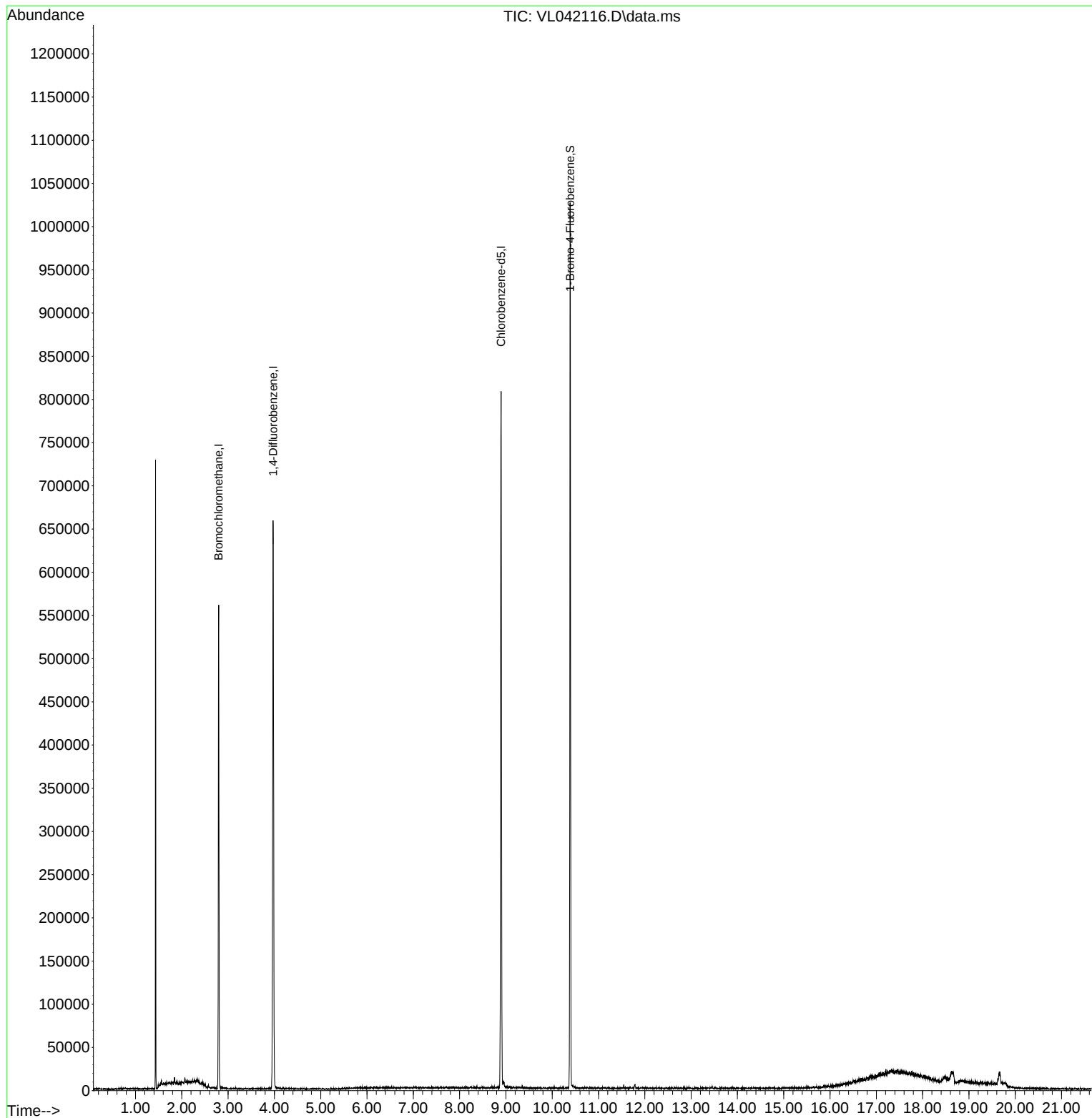
Target Compounds	Qvalue

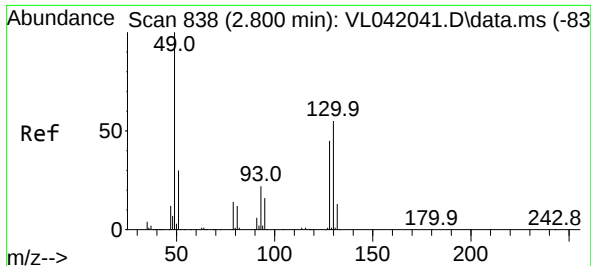
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
Data File : VL042116.D
Acq On : 10 Mar 2025 09:54
Operator : SY/MD
Sample : VL0310ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

Quant Time: Mar 11 01:21:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

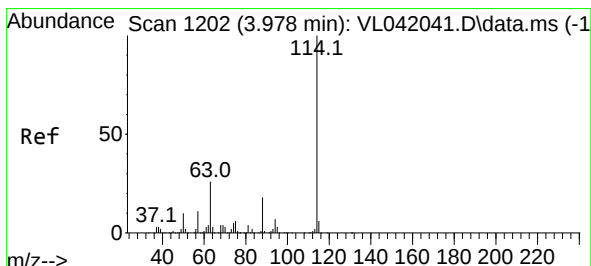
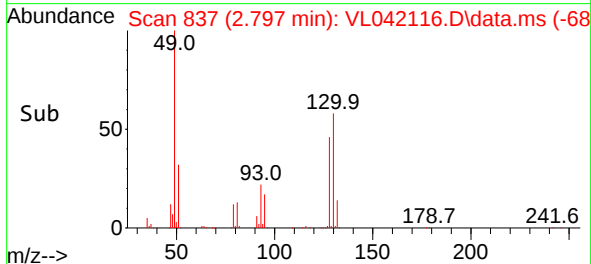
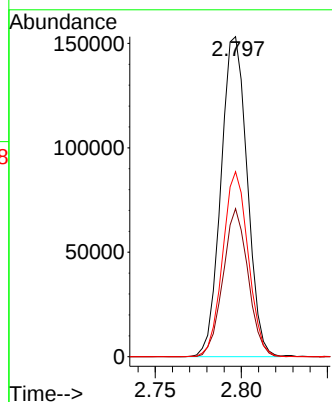
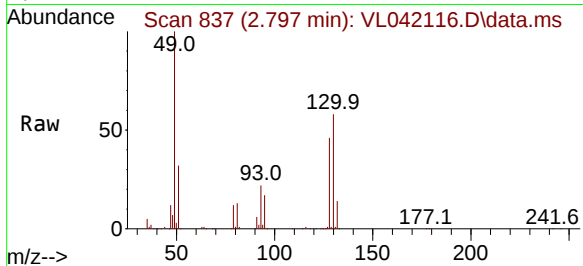




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

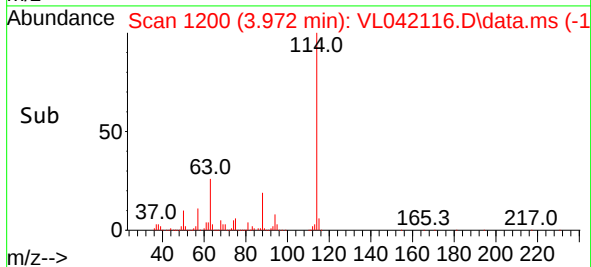
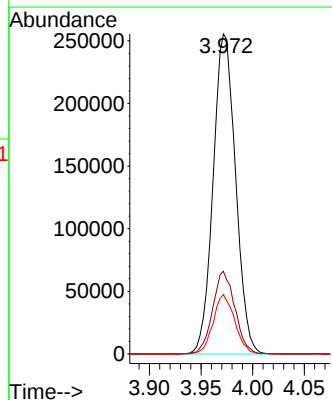
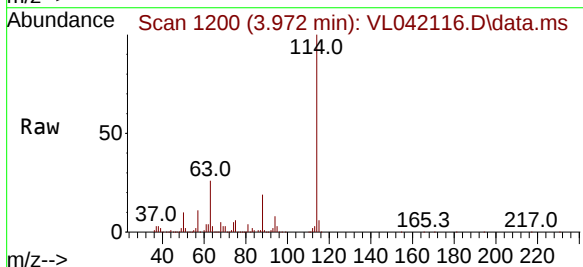
Instrument :
MSVOA_L
ClientSampleId :
VL0310ABL01

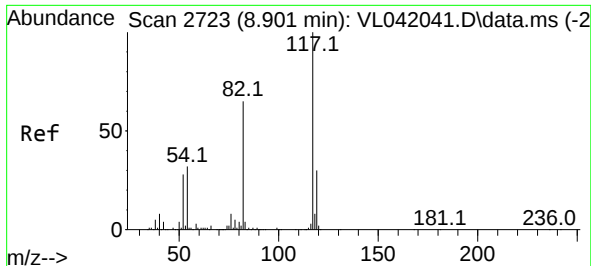
Tgt Ion: 49 Resp: 162394
Ion Ratio Lower Upper
49 100
128 44.2 21.6 64.8
130 56.2 27.8 83.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.007 min
Lab File: VL042116.D
Acq: 10 Mar 2025 09:54

Tgt Ion: 114 Resp: 386417
Ion Ratio Lower Upper
114 100
63 25.6 20.1 30.1
88 17.9 14.3 21.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL042116.D

Acq: 10 Mar 2025 09:54

Instrument :

MSVOA_L

ClientSampleId :

VL0310ABL01

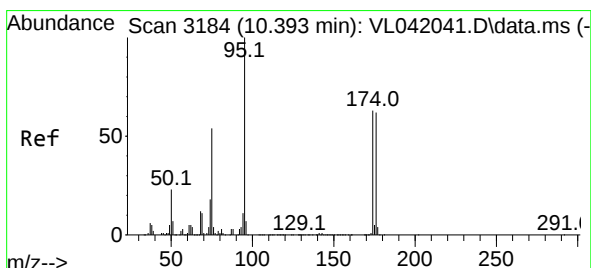
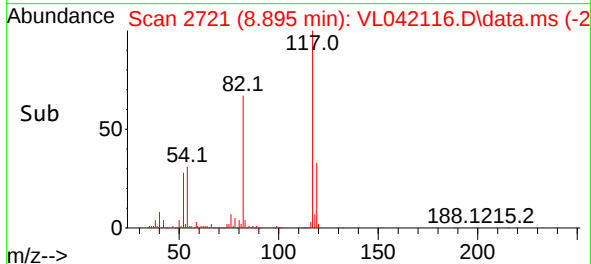
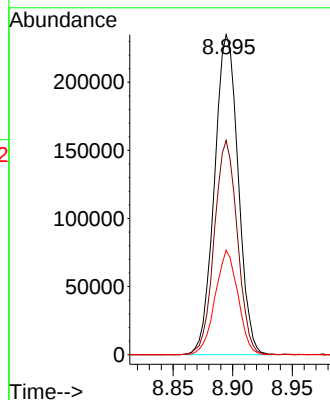
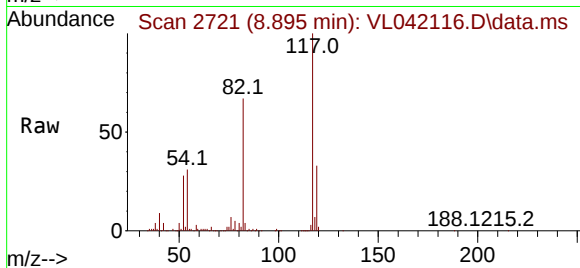
Tgt Ion:117 Resp: 325291

Ion Ratio Lower Upper

117 100

82 65.1 55.0 82.6

119 31.5 25.9 38.9



#68

1-Bromo-4-Fluorobenzene

Concen: 9.897 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. -0.007 min

Lab File: VL042116.D

Acq: 10 Mar 2025 09:54

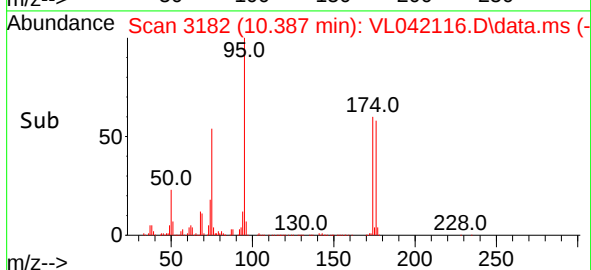
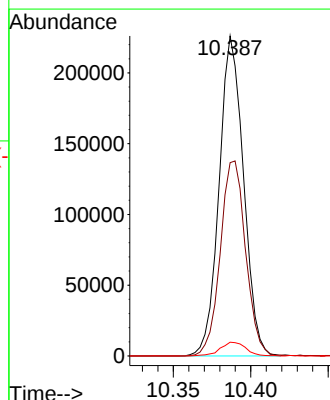
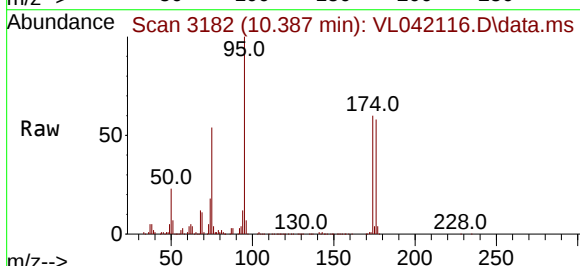
Tgt Ion: 95 Resp: 247682

Ion Ratio Lower Upper

95 100

174 63.7 51.8 77.6

175 4.6 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	3555 Victory Blvd, Staten Island NY	Date Received:	
Client Sample ID:	VL0310ABS01	SDG No.:	Q1533
Lab Sample ID:	VL0310ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042117.D	1		03/10/25 10:52	VL031025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	10.4	26.6		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.40	37.3		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	7.90	31.3		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	7.90	43.1		0.050	0.16	ug/m3
79-01-6	Trichloroethene	8.40	45.1		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	8.40	57.0		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	169000		2.797			
540-36-3	1,4-Difluorobenzene	400000		3.975			
3114-55-4	Chlorobenzene-d5	350000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042117.D
 Acq On : 10 Mar 2025 10:52
 Operator : SY/MD
 Sample : VL0310ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

Quant Time: Mar 11 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	168824	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	400351	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	350466	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	286905	10.641	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	178551	10.171	ppbv	97
3) Chlorodifluoromethane	1.479	51	214564	8.745	ppbv	98
4) Chloromethane	1.538	50	65373	10.070	ppbv	96
5) Vinyl Chloride	1.583	62	63789	10.387	ppbv	98
6) Bromomethane	1.670	94	30397	10.395	ppbv	97
7) Chloroethane	1.709	64	25907	10.383	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	147392	10.213	ppbv	99
9) Propene	1.486	41	84908	8.494	ppbv	98
10) Heptane	5.001	43	253371	8.141	ppbv	100
11) Trichlorofluoromethane	1.884	101	188256	10.702	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	134259	9.568	ppbv	95
13) Ethanol	1.729	45	3976	6.266	ppbv	93
14) Bromoethene	1.787	108	50688	10.230	ppbv	100
15) Acetone	1.842	43	145391	9.752	ppbv	99
16) 1,3-Butadiene	1.612	39	70201	10.118	ppbv	98
17) tert-Butyl alcohol	2.046	59	159331	8.542	ppbv	99
18) 1,1-Dichloroethene	2.039	96	59693	9.415	ppbv	100
19) Isopropyl Alcohol	1.890	45	79215	9.250	ppbv	93
20) Methylene Chloride	2.068	84	55851	9.904	ppbv	98
21) Allyl Chloride	2.104	41	103366	9.596	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	73354	9.925	ppbv	95
23) Vinyl Acetate	2.470	43	75186	7.172	ppbv #	97
24) 1,1-Dichloroethane	2.415	63	138556	10.075	ppbv	99
25) Ethyl Acetate	2.845	43	511525	8.572	ppbv	100
26) Hexane	2.836	57	204595	8.480	ppbv	98
27) Carbon Disulfide	2.156	76	158957	9.720	ppbv	98
28) Methyl tert-Butyl Ether	2.450	73	102132	8.503	ppbv	99
29) Chloroform	2.858	83	277421	8.544	ppbv	98
30) Cyclohexane	3.871	84	152583	7.792	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	179418	7.856	ppbv	98
32) 1,1,1-Trichloroethane	3.379	97	249329	7.916	ppbv	95
34) 2-Butanone	2.567	43	284384	9.118	ppbv	97
35) Carbon Tetrachloride	3.777	117	262027	9.491	ppbv	95
36) Benzene	3.671	78	374551	8.937	ppbv	96
37) 1,2-Dichloroethane	3.230	62	201838	8.686	ppbv	100
38) Trichloroethene	4.564	130	143616	8.392	ppbv	98
39) 1,2-Dichloropropane	4.331	63	141729	8.909	ppbv	99
40) 1,4-Dioxane	4.603	88	60426	8.321	ppbv #	88
41) Tetrahydrofuran	3.069	42	160858	8.728	ppbv	97
42) Bromodichloromethane	4.509	83	283730	9.063	ppbv	95
43) Methyl Methacrylate	4.900	69	137403	8.395	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	675434	9.131	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	123548	7.598	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042117.D
 Acq On : 10 Mar 2025 10:52
 Operator : SY/MD
 Sample : VL0310ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0310ABS01

Quant Time: Mar 11 01:21:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	169656	8.063	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	144144	8.925	ppbv	95
48) Dibromochloromethane	7.402	129	226388	8.951	ppbv	99
49) Bromoform	9.496	173	201809	9.188	ppbv	98
50) 4-Methyl-2-Pentanone	5.781	43	387370	9.603	ppbv	97
51) 2-Hexanone	7.454	43	305577	11.007	ppbv #	97
52) Tetrachloroethene	8.241	164	120494	8.398	ppbv	92
53) Toluene	6.952	91	396095	8.456	ppbv	97
54) 1,2-Dibromoethane	7.671	107	190659	8.732	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.940	131	183026	9.240	ppbv	100
57) Chlorobenzene	8.937	112	336406	9.258	ppbv	95
58) Ethyl Benzene	9.370	91	554446	8.590	ppbv	98
59) m/p-Xylene	9.564	91	925654m	18.022	ppbv	
60) o-Xylene	9.976	91	467382	9.052	ppbv	98
61) Styrene	9.885	104	205606	8.469	ppbv	97
62) Isopropylbenzene	10.552	105	692094	8.950	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	323193	9.504	ppbv	100
64) n-propylbenzene	11.002	120	184209	9.081	ppbv	99
65) tert-Butylbenzene	11.542	119	620355	8.814	ppbv	99
66) Benzyl Chloride	11.626	91	38948	7.252	ppbv	99
67) sec-Butylbenzene	11.778	105	900003	8.942	ppbv	99
69) p-Isopropyltoluene	11.937	119	732332	9.145	ppbv	99
70) n-Butylbenzene	12.293	91	752707	9.208	ppbv	99
71) 2-Chlorotoluene	10.914	91	514130	8.624	ppbv	99
72) 4-Ethyltoluene	11.137	105	562308	8.919	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	480973	8.795	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538676	8.747	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	318968	9.000	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	315833	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	319838	9.299	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	219090	8.187	ppbv	99
79) Naphthalene	13.523	128	472554	11.191	ppbv	100
80) Naphthalene,2-methyl-	14.468	142	153727	13.304	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	210585	8.949	ppbv	99

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

Quant Time: Mar 11 01:21:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042041.D	m/p-Xylene	MMDadoda	3/6/2025 1:12:13 AM	SAM	3/6/2025 1:24:10 AM	Peak Integrated by Software
VSTDICCC002	VL042042.D	m/p-Xylene	SAM	2/26/2025 7:41:55 AM	MMDadoda	2/26/2025 1:45:07 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,4-Dioxane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Benzyl Chloride	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Ethanol	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Heptane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	m/p-Xylene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC0.5	VL042044.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL022525

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042044.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,2-Dichloropropane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,4-Dioxane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	2-Hexanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	Dibromochloromethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	m/p-Xylene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Carbon Tetrachloride	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042045.D	Tetrachloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Trichloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,1-Trichloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Carbon Tetrachloride	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Tetrachloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Trichloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC015	VL042047.D	m/p-Xylene	SAM	2/26/2025 7:42:16 AM	MMDadoda	2/26/2025 1:45:16 PM	Peak Integrated by Software
VSTDICV010	VL042048.D	m/p-Xylene	SAM	2/26/2025 7:42:09 AM	MMDadoda	2/26/2025 1:45:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL031025	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042115.D	1,1,2-Trichloroethane	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software
VSTDCCC010	VL042115.D	m/p-Xylene	SAM	3/11/2025 9:46:49 AM	MMDadoda	3/11/2025 5:06:19 PM	Peak Integrated by Software
VL0310ABS01	VL042117.D	m/p-Xylene	SAM	3/11/2025 9:46:58 AM	MMDadoda	3/11/2025 5:06:24 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Carbon Tetrachloride	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Chlorodifluoromethane	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	m/p-Xylene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Propene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Tetrachloroethene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1532-01DUP	VL042122.D	Toluene	SAM	3/11/2025 9:50:47 AM	MMDadoda	3/11/2025 5:06:27 PM	Peak Integrated by Software
Q1533-02	VL042132.D	4-Ethyltoluene	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software
Q1533-02	VL042132.D	Benzene	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software
Q1533-02	VL042132.D	Carbon Tetrachloride	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software
Q1533-02	VL042132.D	Chlorodifluoromethane	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL031025	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1533-02	VL042132.D	Propene	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software
Q1533-02	VL042132.D	Toluene	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software
Q1533-02	VL042132.D	Trichloroethene	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software
Q1533-02	VL042132.D	Trichlorofluoromethane	SAM	3/11/2025 9:52:08 AM	MMDadoda	3/11/2025 5:06:43 PM	Peak Integrated by Software
Q1533-04	VL042133.D	Carbon Tetrachloride	SAM	3/11/2025 9:52:13 AM	MMDadoda	3/11/2025 5:06:45 PM	Peak Integrated by Software
Q1533-04	VL042133.D	Chlorodifluoromethane	SAM	3/11/2025 9:52:13 AM	MMDadoda	3/11/2025 5:06:45 PM	Peak Integrated by Software
Q1533-04	VL042133.D	Propene	SAM	3/11/2025 9:52:13 AM	MMDadoda	3/11/2025 5:06:45 PM	Peak Integrated by Software
Q1533-04	VL042133.D	Toluene	SAM	3/11/2025 9:52:13 AM	MMDadoda	3/11/2025 5:06:45 PM	Peak Integrated by Software
Q1533-05	VL042134.D	Carbon Tetrachloride	SAM	3/11/2025 9:51:13 AM	MMDadoda	3/11/2025 5:07:04 PM	Peak Integrated by Software
Q1533-05	VL042134.D	Chlorodifluoromethane	SAM	3/11/2025 9:51:13 AM	MMDadoda	3/11/2025 5:07:04 PM	Peak Integrated by Software
Q1533-05	VL042134.D	Tetrachloroethene	SAM	3/11/2025 9:51:13 AM	MMDadoda	3/11/2025 5:07:04 PM	Peak Integrated by Software
Q1533-05	VL042134.D	Trichlorofluoromethane	SAM	3/11/2025 9:51:13 AM	MMDadoda	3/11/2025 5:07:04 PM	Peak Integrated by Software
Q1533-01	VL042135.D	2,2,4-Trimethylpentane	SAM	3/11/2025 9:50:18 AM	MMDadoda	3/11/2025 5:07:05 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL031025

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1533-01	VL042135.D	Heptane	SAM	3/11/2025 9:50:18 AM	MMDadoda	3/11/2025 5:07:05 PM	Peak Integrated by Software
Q1533-01	VL042135.D	Trichloroethene	SAM	3/11/2025 9:50:18 AM	MMDadoda	3/11/2025 5:07:05 PM	Peak Integrated by Software
Q1533-03	VL042137.D	2-Hexanone	SAM	3/11/2025 9:50:28 AM	MMDadoda	3/11/2025 5:07:08 PM	Peak Integrated by Software
Q1533-03	VL042137.D	4-Ethyltoluene	SAM	3/11/2025 9:50:28 AM	MMDadoda	3/11/2025 5:07:08 PM	Peak Integrated by Software
Q1533-03	VL042137.D	Propene	SAM	3/11/2025 9:50:28 AM	MMDadoda	3/11/2025 5:07:08 PM	Peak Integrated by Software
Q1533-03	VL042137.D	Toluene	SAM	3/11/2025 9:50:28 AM	MMDadoda	3/11/2025 5:07:08 PM	Peak Integrated by Software
Q1533-03	VL042137.D	Trichloroethene	SAM	3/11/2025 9:50:28 AM	MMDadoda	3/11/2025 5:07:08 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICCC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICCC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICCC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICCC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICCC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICCC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICCC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Maresh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042114.D	10 Mar 2025 08:22	SY/MD	Ok
2	VSTDCCC010	VL042115.D	10 Mar 2025 09:08	SY/MD	Ok,M
3	VL0310ABL01	VL042116.D	10 Mar 2025 09:54	SY/MD	Ok
4	VL0310ABS01	VL042117.D	10 Mar 2025 10:52	SY/MD	Ok,M
5	QC030525 CAN 10742	VL042118.D	10 Mar 2025 11:23	SY/MD	Ok
6	QC030625 CAN 10418	VL042119.D	10 Mar 2025 11:54	SY/MD	Ok
7	QC030625 CAN 10676	VL042120.D	10 Mar 2025 12:25	SY/MD	Ok
8	Q1532-01	VL042121.D	10 Mar 2025 12:59	SY/MD	Ok,M
9	Q1532-01DUP	VL042122.D	10 Mar 2025 13:32	SY/MD	Ok,M
10	Q1532-02	VL042123.D	10 Mar 2025 14:06	SY/MD	Ok,M
11	Q1532-02DL	VL042124.D	10 Mar 2025 14:37	SY/MD	Not Ok
12	Q1532-03	VL042125.D	10 Mar 2025 15:10	SY/MD	Ok,M
13	Q1532-03DL	VL042126.D	10 Mar 2025 15:42	SY/MD	Not Ok
14	Q1532-04	VL042127.D	10 Mar 2025 16:15	SY/MD	Ok,M
15	Q1532-04DL	VL042128.D	10 Mar 2025 16:47	SY/MD	Not Ok
16	Q1506-02	VL042129.D	10 Mar 2025 17:20	SY/MD	Ok,M
17	Q1506-01	VL042130.D	10 Mar 2025 17:52	SY/MD	Ok,M
18	Q1506-01DL	VL042131.D	10 Mar 2025 18:23	SY/MD	Not Ok
19	Q1533-02	VL042132.D	10 Mar 2025 18:57	SY/MD	Ok,M
20	Q1533-04	VL042133.D	10 Mar 2025 19:30	SY/MD	Ok,M
21	Q1533-05	VL042134.D	10 Mar 2025 20:03	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Maresh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1533-01	VL042135.D	10 Mar 2025 20:35	SY/MD	Ok,M
23	Q1533-01DL	VL042136.D	10 Mar 2025 21:07	SY/MD	Not Ok
24	Q1533-03	VL042137.D	10 Mar 2025 21:38	SY/MD	Ok,M
25	Q1533-03DL	VL042138.D	10 Mar 2025 22:10	SY/MD	Not Ok
26	VIBLK	VL042139.D	10 Mar 2025 22:42	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M HP Processing Method VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042040.D	25 Feb 2025 07:56		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042041.D	25 Feb 2025 08:56		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042042.D	25 Feb 2025 09:29		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042043.D	25 Feb 2025 10:00		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042047.D	25 Feb 2025 12:07		SY/MD	Ok,M
9	VSTDICV010	ICVVL022525	VL042048.D	25 Feb 2025 13:15		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2588
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2588
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042114.D	10 Mar 2025 08:22		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042115.D	10 Mar 2025 09:08		SY/MD	Ok,M
3	VL0310ABL01	VL0310ABL01	VL042116.D	10 Mar 2025 09:54		SY/MD	Ok
4	VL0310ABS01	VL0310ABS01	VL042117.D	10 Mar 2025 10:52		SY/MD	Ok,M
5	QC030525 CAN 10742	QC030525 CAN 10742	VL042118.D	10 Mar 2025 11:23		SY/MD	Ok
6	QC030625 CAN 10418	QC030625 CAN 10418	VL042119.D	10 Mar 2025 11:54		SY/MD	Ok
7	QC030625 CAN 10676	QC030625 CAN 10676	VL042120.D	10 Mar 2025 12:25		SY/MD	Ok
8	Q1532-01	1	VL042121.D	10 Mar 2025 12:59		SY/MD	Ok,M
9	Q1532-01DUP	1DUP	VL042122.D	10 Mar 2025 13:32		SY/MD	Ok,M
10	Q1532-02	2	VL042123.D	10 Mar 2025 14:06		SY/MD	Ok,M
11	Q1532-02DL	2DL	VL042124.D	10 Mar 2025 14:37	Not Required	SY/MD	Not Ok
12	Q1532-03	3	VL042125.D	10 Mar 2025 15:10		SY/MD	Ok,M
13	Q1532-03DL	3DL	VL042126.D	10 Mar 2025 15:42	Not Required	SY/MD	Not Ok
14	Q1532-04	4	VL042127.D	10 Mar 2025 16:15		SY/MD	Ok,M
15	Q1532-04DL	4DL	VL042128.D	10 Mar 2025 16:47	Not Required	SY/MD	Not Ok
16	Q1506-02	IA1	VL042129.D	10 Mar 2025 17:20		SY/MD	Ok,M
17	Q1506-01	SV1	VL042130.D	10 Mar 2025 17:52		SY/MD	Ok,M
18	Q1506-01DL	SV1DL	VL042131.D	10 Mar 2025 18:23	Not Required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL031025

Review By	Semsettin Yesilyurt	Review On	3/11/2025 3:11:37 PM		
Supervise By	Mahesh Dadoda	Supervise On	3/11/2025 5:07:27 PM		
SubDirectory	VL031025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2588				
Initial Calibration Stds	AP2582,AP2584,AP2585				
CCC	AP2582				
Internal Standard/PEM	AP2588				
ICV/I.BLK	AP2586				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1533-02	IA1	VL042132.D	10 Mar 2025 18:57		SY/MD	Ok,M
20	Q1533-04	IA2	VL042133.D	10 Mar 2025 19:30		SY/MD	Ok,M
21	Q1533-05	OA1	VL042134.D	10 Mar 2025 20:03		SY/MD	Ok,M
22	Q1533-01	SV1	VL042135.D	10 Mar 2025 20:35		SY/MD	Ok,M
23	Q1533-01DL	SV1DL	VL042136.D	10 Mar 2025 21:07	Not Required	SY/MD	Not Ok
24	Q1533-03	SV2	VL042137.D	10 Mar 2025 21:38		SY/MD	Ok,M
25	Q1533-03DL	SV2DL	VL042138.D	10 Mar 2025 22:10	Not Required	SY/MD	Not Ok
26	VIBLK	VIBLK	VL042139.D	10 Mar 2025 22:42		SY/MD	Ok

M : Manual Integration

Client Contact Information						Bottle Order ID : B2503004		Courier : Results Only	3 of 5 COCs						
Client ID : GFEL01						Project ID :		Sampler Name(s) : PDF		Analysis	Matrix				
Customer Name : GFE LLC						Project Manager : FRANK GALDUN		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
Address : 58 Nokomis Ave						Phone Number : 646-542-3465									
						Fax Number : 973-334-1692									
City : Lake Hiawatha						Site Details: 355 Victory Blvd Staten Island, NY									
State : NJ						Analysis Turnaround Time		Data Package Type : Results Only							
Zip Code : 07034						Standard : 10 business days OR		EDD Type : PDF							
Country :						Rush (Specify): 5 Days									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg") (Start)	Can Vacuum In Field ("Hg") (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambient Air	Soil Gas
SJZ	4/19/19	8:51	10:51	30	5.5	68	68	-30	-5.1	10648	10410	50	VL041954.D		1
Temperature (Fahrenheit)															
		Ambient	Maximum	Minimum											
Start															
Stop															
Pressure (Inches of Hg)															
		Ambient	Maximum	Minimum											
Start															
Stop															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination: High Medium Low															
Sampling site (State):															
PID Readings: 0.0															
Please follow the instructions on the back of this COC.															
GC/MS Analyst Signature (TO-15) 															
** Submittal of this COC indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE,															
Quick Connector required : N/A															
Canisters Shipped by:				Date/Time: 3/7/15				Canisters Received by:				Date/Time: 3-7-25 14:00			
Samples Relinquished by:				Date/Time: 3/7/25				Received by:				Date/Time:			
Relinquished by:				Date/Time:				Received by:				Date/Time:			

Client Contact Information		Bottle Order ID : B2503004		Courier : FGALDUN		1 of 3 COCs	
Client ID : GFELO1		Project ID : 97-34 63RD RD, Rego Park NY		Sampler Name(s) : FRANK GALDUN		Analysis	
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified		Matrix	
Address : 58 Nokomis Ave		Phone Number : 646-542-3465					
City : Lake Hiawatha		Fax Number : 973-334-1692					
State : NJ		Site Details : 3555 Victory Blvd.		Data Package Type : RESULTS ONLY			
Zip Code : 07034		Analysis Turnaround Time : 5 DAY		EDD Type : PDF			
Country :		Standard : 10 business days OR 5 Days		Flow Controller Readout (ml/min)			
		Rush (Specify):		Can ID		Can Cert ID	
				Flow Reg. ID			
				In coming Can Pressure ("Hg)(Lab)			
				Out going Can Pressure ("Hg)(Lab)			
				Interior Temp. (F) (Start)			
				Interior Temp. (F) (Stop)			
				Can Vacuum in Field ("Hg) (Start)**			
				Can Vacuum in Field ("Hg) (Stop)**			
				Time Start (24 hr Clock)			
				Time Stop (24 hr Clock)			
				Sample Date(s)			
				Sample Identification			
				Temperature (Fahrenheit)			
				Ambient			
				Maximum			
				Minimum			
				Pressure (Inches of Hg)			
				Ambient			
				Maximum			
				Minimum			
				Start			
				Stop			
				GC/MS Analyst Signature (TO-15)			
				Please follow the instructions on the back of this COC.			
				PID Readings: 0.0			
				Special Instructions/QC Requirements & Comments :			
				Suspected Contamination: High Medium Low			
				Sampling site (State):			
				Quick Connector required : NO			
				Canisters Shipped by:			
				Samples Relinquished by:			
				Relinquished by:			
				Canisters Received by:			
				Received by:			
				Date/Time:			
				Date/Time:			
				Date/Time:			
				B2503004 - 4			

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TRA, VINYL-CHLORIDE

NO

0.0

3.7.25

4:00

Client Contact Information		Bottle Order ID : B2503004		Courier : F GARDUN		2 of 3 COCs	
Client ID : GFEL01		Project ID : 97-24-000000-Rego-Project		Sampler Name(s) : FRANK GARDUN		Analysis	
Customer Name : GFE LLC		Project Manager : FRANK GARDUN		AIR ANALYSIS		Matrix	
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY			
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified			
State : NJ		Site Details: 3455 Victory Blvd.					
Zip Code : 07034		Analysis Turnaround Time		Data Package Type : RESULTS ONLY			
Country :		Standard : 18 business days		EDD Type : PDF			
		Rush (Specify): 5 Days					
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)
IAI	3/12/08:46	6:46	6:54	6.5	6.5	68	68
				Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Controller Readout (ml/min)	Can Cert ID
				-30	-7.1	50	VL041966.D
				Can ID	Flow Reg. ID	Can ID	Can Cert ID
				10321	10579	6 L	50
							TO-15
							Indoor/Ambient Air
							Soil Gas
GC/MS Analyst Signature (TO-15)							
GC/MS Analyst Signature (TO-15) GC/MS Analyst Signature (TO-15)							
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCF, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
Special Instructions/QC Requirements & Comments :							
Suspected Contamination: High Medium Low							
Sampling site (State):							
Quick Connector required : No							
Canisters Shipped by: Sany							
Samples Relinquished by: Sany							
Relinquished by:							
Canisters Received by: Sany Received by: Received by:							
Date/Time: 3-7-25 14:00 Date/Time: Date/Time:							
B2503004 - 5							

Client Contact Information		Bottle Order ID : B2503004		Courier : F GALDUN		5 of 5 COCs																		
Client ID : GFEL01		Project ID : 934-030000-0000 Park NY		Sampler Name(s) : FRANK GALDUN		Analysis Matrix																		
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																				
Address : 58 Nokomis Ave		Phone Number : 646-542-3465																						
City : Lake Hiawatha		Fax Number : 973-334-1692																						
State : NJ		Analysis Turnaround Time : 5 DAY		Data Package Type : RESULTS ONLY																				
Zip Code : 07034		Standard : 1844-0000-0000		EDD Type : PDF																				
Country : USA		Rush (Specify) : 5 Days																						
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/mbinet Air	Soil Gas									
DA1	11/1/02	11:22	11:22	30	2	39	43	-30	-3.9	10617	10153	50	VL041954.D	1										
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																								
**Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, VINYL CHLORIDE																								
Please follow the instructions on the back of this COC.																								
Special Instructions/QC Requirements & Comments :																								
Suspected Contamination: High Medium Low																								
PID Readings: 0.0																								
Sampling site (State):																								
Quick Connector required : N/D																								
Canisters Shipped by: SEN																								
Samples Relinquished by: FRANK																								
Relinquished by:																								
Date/Time: 03/15/25																								
Date/Time: 3/7/25																								
Date/Time: 3-7-25 14:00																								
B2503004 - 1																								

Client Contact Information		Bottle Order ID : B2503004		Courier : F. Galdun		4 of 5 COCs																		
Client ID : GFEL01		Project ID : 97-34-03000-07, Regester-Hill-NY		Sampler Name(s) : FRANK GILDUN		Analysis																		
Customer Name : GFE LLC		Project Manager : FRANK GILDUN		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified		Matrix																		
Address : 58 Nokomis Ave		Phone Number : 646-542-3465																						
City : Lake Hiawatha		Fax Number : 973-334-1692																						
State : NJ		Analysis Turnaround Time : 5 DAY		Data Package Type : RESULTS ONLY																				
Zip Code : 07034		Standard : 10-business days OR 5 Days		EDD Type : PDF																				
Country : USA		Rush (Specify):																						
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor Ambient Air	Soil Gas									
IAZ	4/25/08	8:52	10:52	30	4.5	68	68	-30	-4.7	10613	10266	50	VL041954.D		1									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																								
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE																								
Please follow the instructions on the back of this COC.																								
Special Instructions/QC Requirements & Comments :																								
Suspected Contamination: High Medium Low																								
PID Readings: 0.0																								
Sampling site (State):																								
Quick Connector required : NJ																								
Canisters Shipped by: Serum																								
Samples Relinquished by: Serum																								
Relinquished by:																								
Date/Time: 3-7-25 NY																								
Date/Time:																								
Date/Time:																								
B2503004 - 3																								

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~QA/QC~~:

Title: Sample Custodian

Field Sample Seal No. Q1533

Date Broken 3/7/2025

Military Time Seal Broken: 14:00:00

Case No.: 3555 Victory Blvd, Staten

Analytical Parameter/Fraction MOCMS Group3

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1533-01	SV1		
Q1533-02	IA1		
Q1533-03	SV2		
Q1533-04	IA2		
Q1533-05	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3/7/25	9:51	Signature 	Signature 	
		Printed Name <u>Cameron Perri</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID:

Document Control # A3041228

Process Report

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Order ID : Q1533

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/10/2025	B2503004	Q1533-03	-5.1	10410	6 L	10648		C2501003	VL041954.D Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D
03/10/2025	B2503004	Q1533-02	-7.1	10321	6 L	10579		C2501004	VL041966.D Seq :VL020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/10/2025	B2503004	Q1533-01	-6.3	10296	6 L	10707		C2501004	VL041966.D Seq :VL020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/10/2025	B2503004	Q1533-04	-4.7	10266	6 L	10613		C2501003	VL041954.D Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D
03/10/2025	B2503004	Q1533-05	-3.9	10153	6 L	10617		C2501003	VL041954.D Seq :VL012725 TUNE : VL041943.D ICAL : VL041894.D CCAL : VL041944.D MB : VL041946.D

10296

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: SV1

Client Name: GFE

Project Name: VICTORY

Date: 3/7 Time: _____

Analysis: _____

Comments: _____

CHEMTECH'S
Date Received: _____

Storage Location: VOA Lab
Sample: Q1533-01
Cust #: SV1

B2503004

1032

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: IP1

Client Name: GFE

Project Name: VICTORY

Date: 3/7 Time: _____

Analysis: TO-15

Comments: _____

CHEMTECH'S
Date Received: _____

Storage Location: VOA Lab
Sample: Q1533-02
Cust #: 1A1

B2503004

1.5

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: SV2

Client Name: GFE

Project Name: VICTORY

Date: 3/7 Time: _____

Analysis: TO-15

Comments: _____

CHEMTECH'S
Date Received: _____

Storage Location: VOA Lab
Sample: Q1533-03
Cust #: SV2

01501

40060525

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: DA1

Client Name: GFE

Project Name: VICTORY

Date: 3/7 Time: _____

Analysis: _____

Comments: _____

CHEMTECH

Date Received: _____

Storage Location: VOA Lab
Sample: Q1533-05
Cust #: OA1

Disposal: _____

B2503004

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: IR2

Client Name: GFE

Project Name: VICTORY

Date: 3/7 Time: _____

Analysis: _____

Comments: _____

CHEMTECH

Date Received: _____

Storage Location: VOA Lab
Sample: Q1533-04
Cust #: IA2

Disposal: _____

B2503004