

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022125\
 Data File : VL042035.D
 Acq On : 21 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0221ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0221ABL01

Quant Time: Feb 21 21:50:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Feb 18 00:13:37 2025
 Response via : Initial Calibration

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

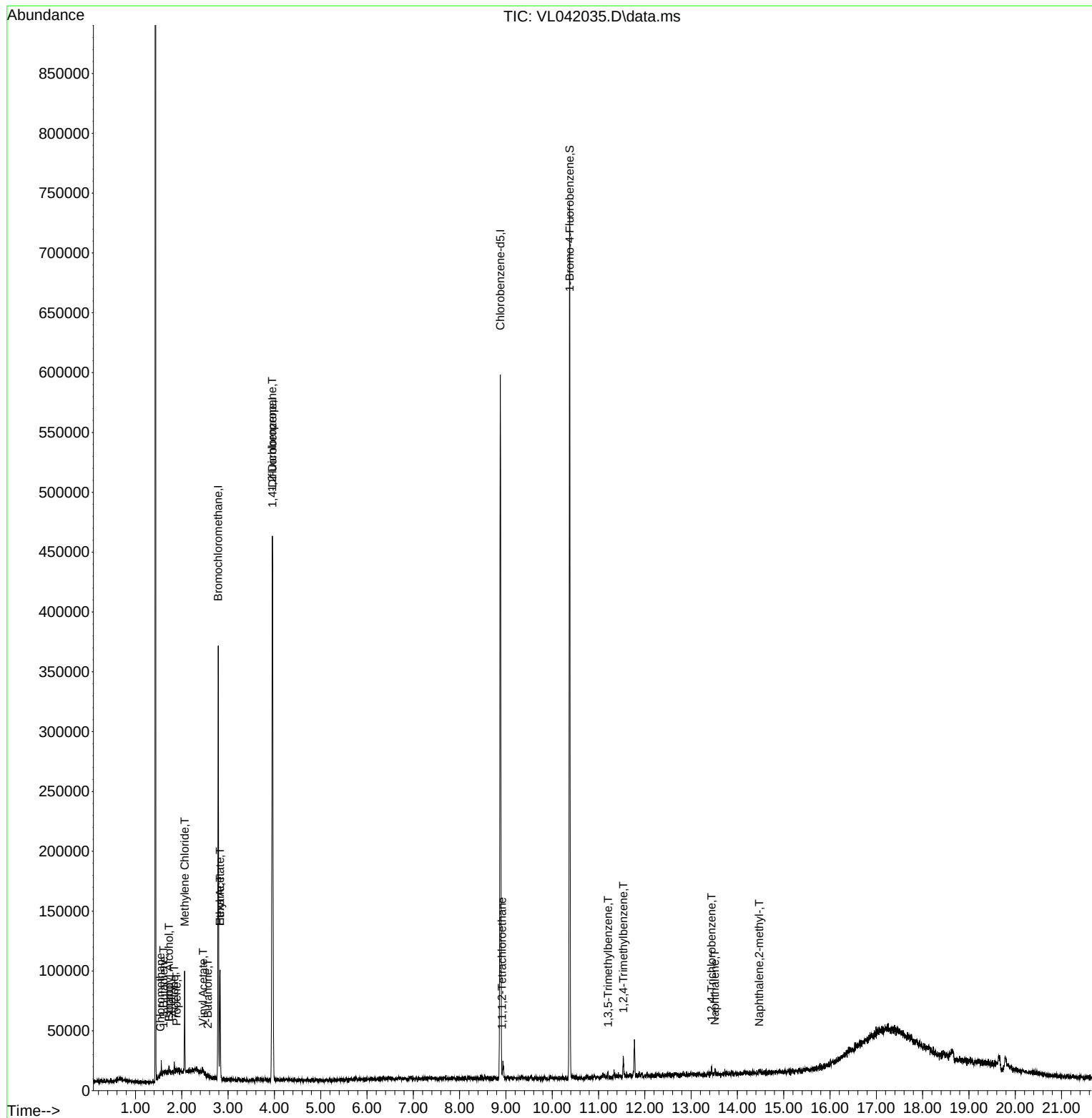
Internal Standards						
1) Bromochloromethane	2.787	49	104350	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	269157	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	235545	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	199523	10.269	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.700%	
Target Compounds						
					Qvalue	
4) Chloromethane	1.535	50	604	0.087	ppbv #	64
9) Propene	1.887	41	272	0.032	ppbv	90
13) Ethanol	1.722	45	1947	2.016	ppbv	81
15) Acetone	1.836	43	4144	0.241	ppbv	90
16) 1,3-Butadiene	1.606	39	489	0.060	ppbv #	24
19) Isopropyl Alcohol	1.722	45	1947	0.202	ppbv #	37
20) Methylene Chloride	2.062	84	11697	1.804	ppbv #	92
23) Vinyl Acetate	2.457	43	508	0.054	ppbv #	19
25) Ethyl Acetate	2.826	43	16348	0.346	ppbv #	78
26) Hexane	2.826	57	23875	1.259	ppbv #	31
34) 2-Butanone	2.564	43	1219	0.053	ppbv #	86
39) 1,2-Dichloropropane	3.955	63	74427	6.227	ppbv #	24
56) 1,1,1,2-Tetrachloroethane	8.914	131	537	0.032	ppbv #	8
73) 1,3,5-Trimethylbenzene	11.206	105	1395	0.034	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	4898	0.110	ppbv #	70
79) Naphthalene	13.513	128	2224	0.051	ppbv #	91
80) Naphthalene,2-methyl-	14.471	142	1046	0.053	ppbv #	77
81) 1,2,4-Trichlorobenzene	13.442	180	751	0.042	ppbv #	48

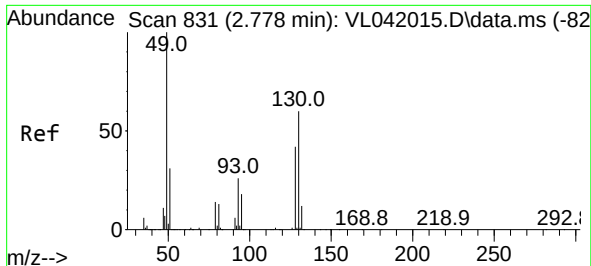
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022125\
Data File : VL042035.D
Acq On : 21 Feb 2025 11:07
Operator : SY/MD
Sample : VL0221ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0221ABL01

Quant Time: Feb 21 21:50:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration

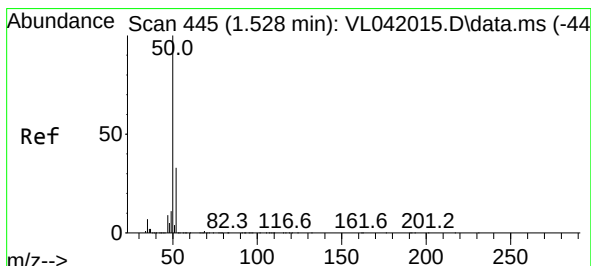
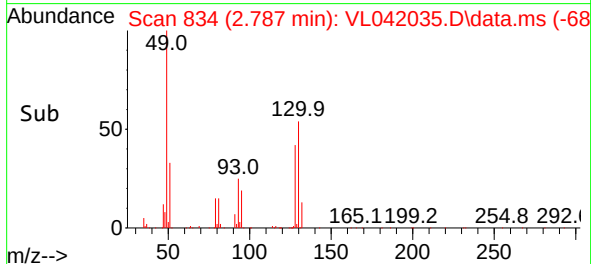
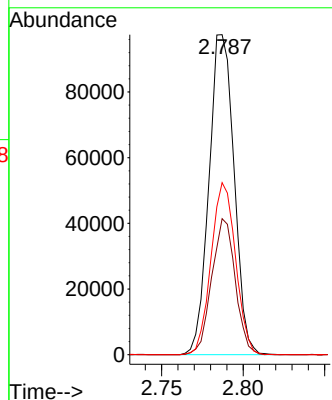
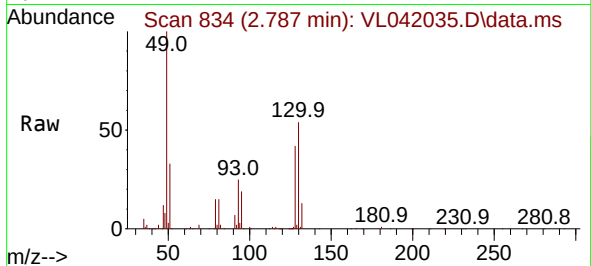




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

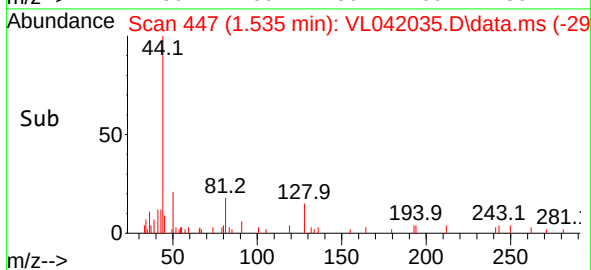
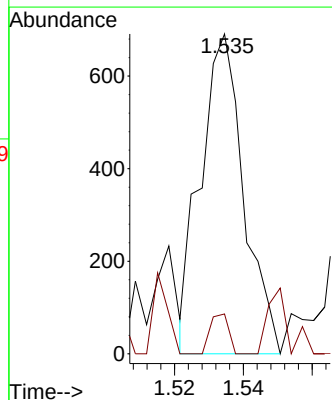
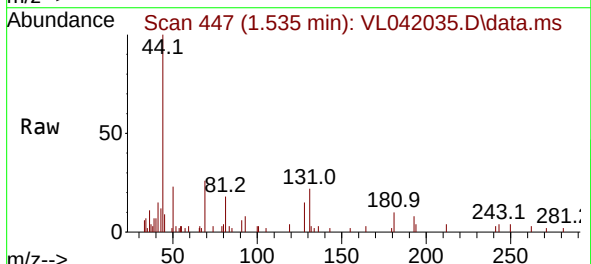
Instrument :
MSVOA_L
ClientSampleId :
VL0221ABL01

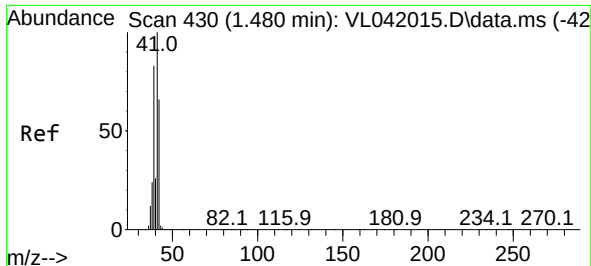
Tgt Ion: 49 Resp: 104350
Ion Ratio Lower Upper
49 100
128 39.9 22.7 68.0
130 52.5 29.9 89.8



#4
Chloromethane
Concen: 0.087 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 50 Resp: 604
Ion Ratio Lower Upper
50 100
52 12.4 26.2 39.2#

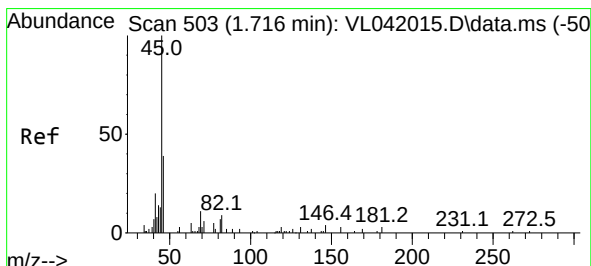
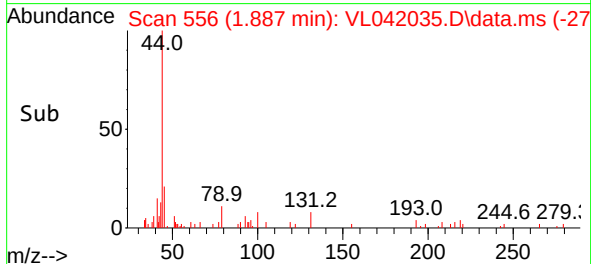
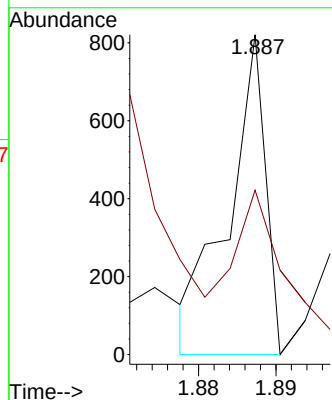
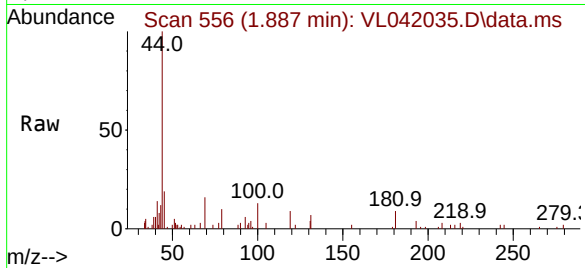




#9
Propene
Concen: 0.032 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.398 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

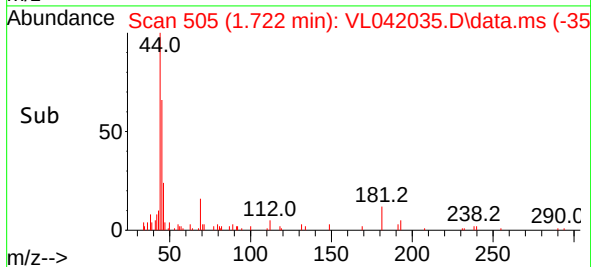
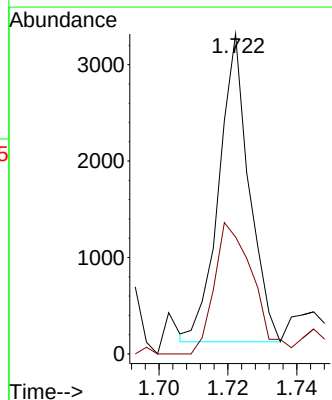
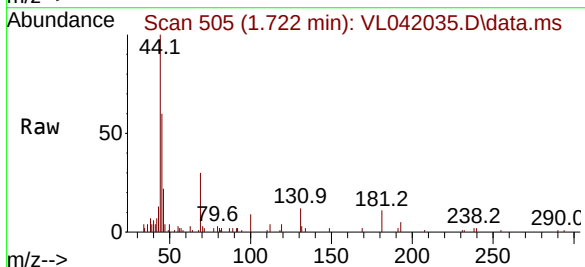
Instrument :
MSVOA_L
ClientSampleId :
VL0221ABL01

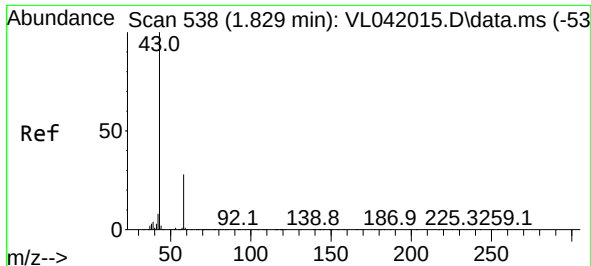
Tgt Ion: 41 Resp: 272
Ion Ratio Lower Upper
41 100
42 59.2 53.5 80.3



#13
Ethanol
Concen: 2.016 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.006 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 45 Resp: 1947
Ion Ratio Lower Upper
45 100
46 66.5 21.3 85.1





#15

Acetone

Concen: 0.241 ppbv

RT: 1.836 min Scan# 54

Delta R.T. -0.006 min

Lab File: VL042035.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA_L

ClientSampleId :

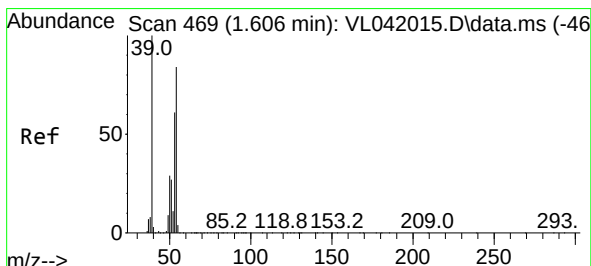
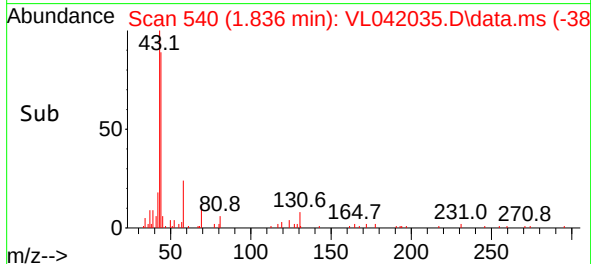
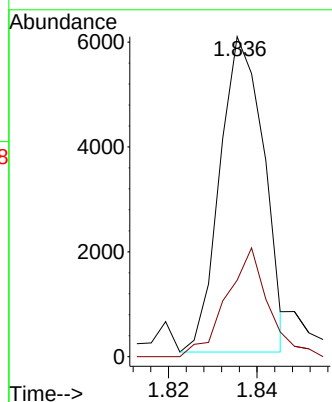
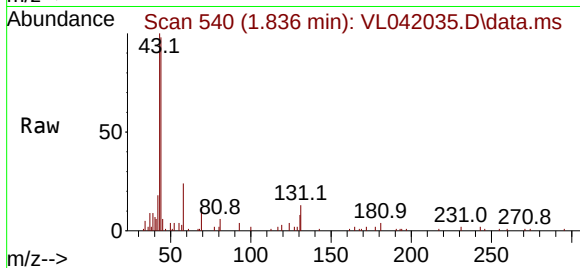
VL0221ABL01

Tgt Ion: 43 Resp: 4144

Ion Ratio Lower Upper

43 100

58 33.8 22.9 34.3



#16

1,3-Butadiene

Concen: 0.060 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.009 min

Lab File: VL042035.D

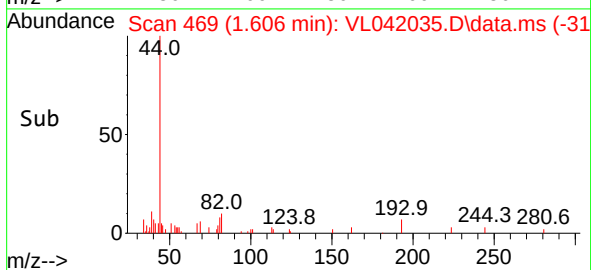
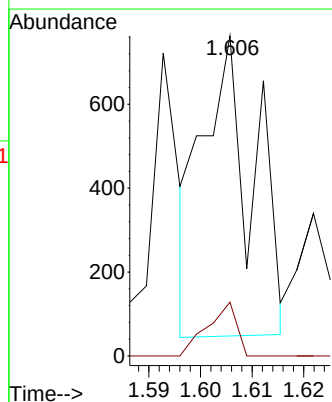
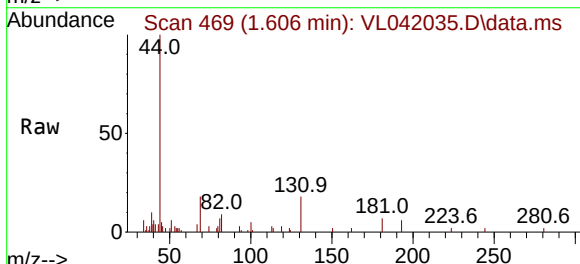
Acq: 21 Feb 2025 11:07

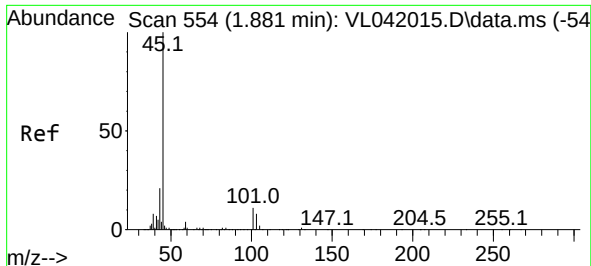
Tgt Ion: 39 Resp: 489

Ion Ratio Lower Upper

39 100

54 10.2 59.4 89.2#





#19

Isopropyl Alcohol

Concen: 0.202 ppbv

RT: 1.722 min Scan# 50

Delta R.T. -0.171 min

Lab File: VL042035.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA_1

ClientSampleId :

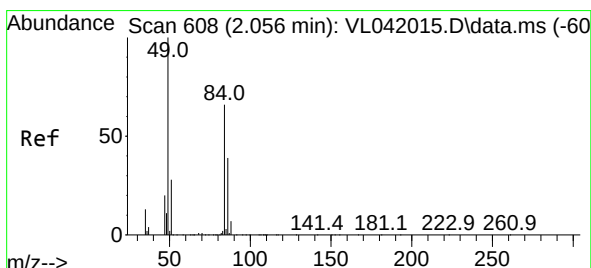
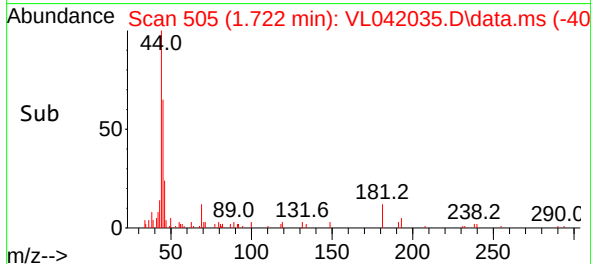
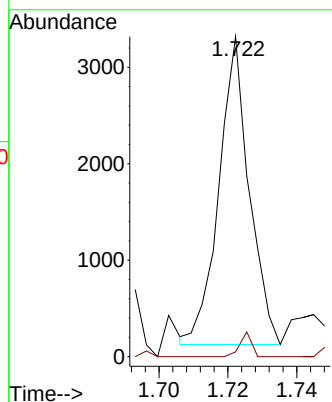
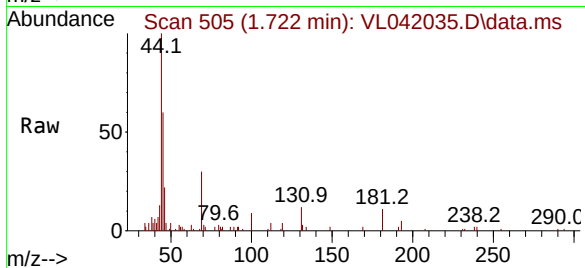
VL0221ABL01

Tgt Ion: 45 Resp: 1947

Ion Ratio Lower Upper

45 100

58 3.6 36.2 54.4#



#20

Methylene Chloride

Concen: 1.804 ppbv

RT: 2.062 min Scan# 610

Delta R.T. -0.006 min

Lab File: VL042035.D

Acq: 21 Feb 2025 11:07

Tgt Ion: 84 Resp: 11697

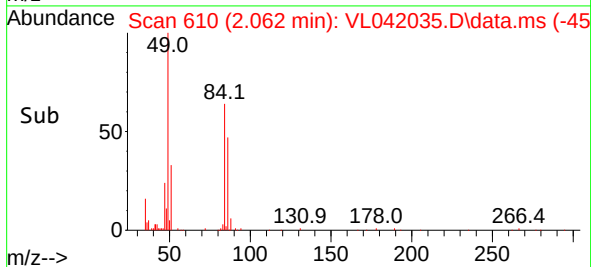
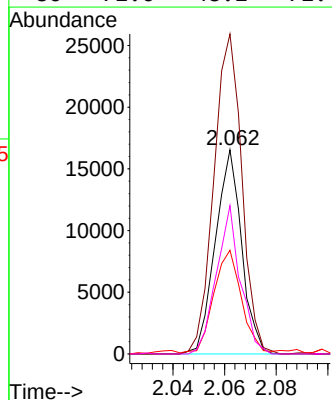
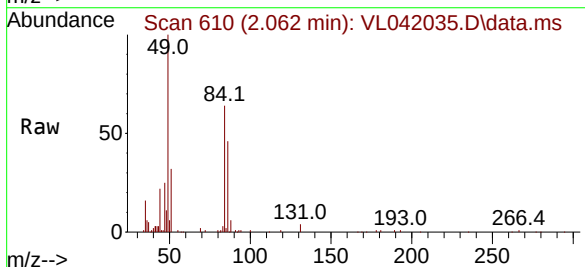
Ion Ratio Lower Upper

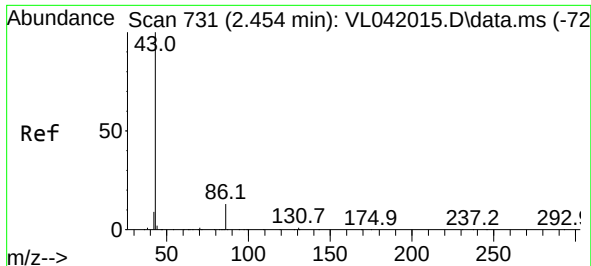
84 100

49 156.7 121.0 181.4

51 50.2 35.1 52.7

86 72.6 48.2 72.4#

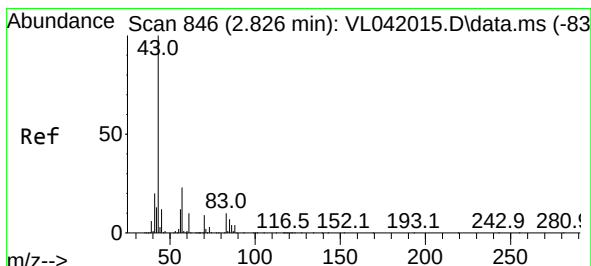
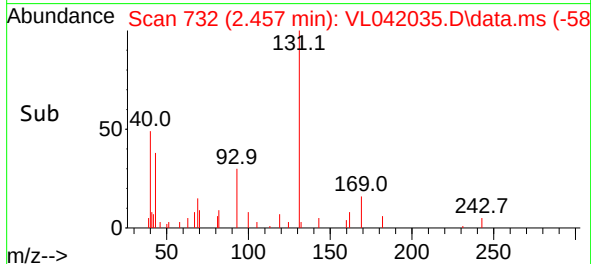
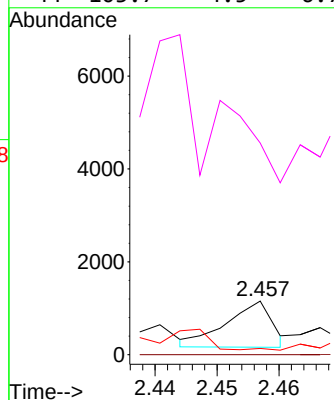
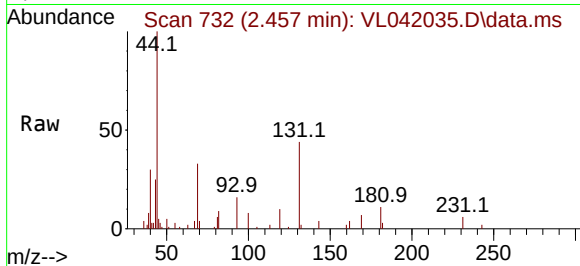




#23
 Vinyl Acetate
 Concen: 0.054 ppbv
 RT: 2.457 min Scan# 731
 Delta R.T. -0.016 min
 Lab File: VL042035.D
 Acq: 21 Feb 2025 11:07

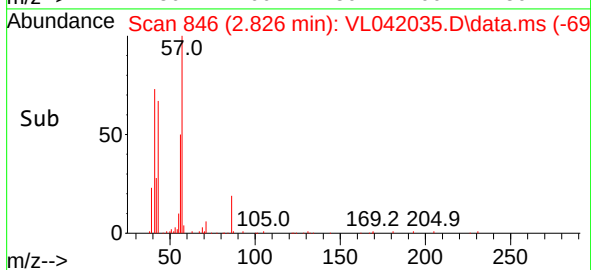
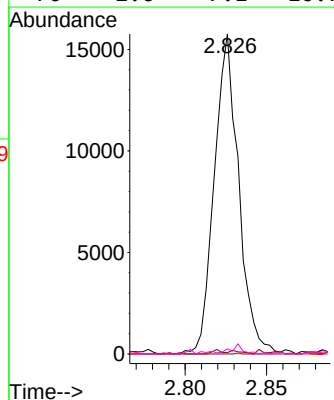
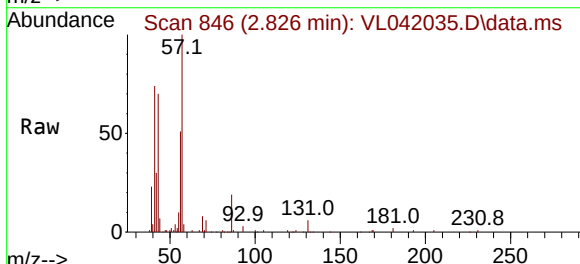
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0221ABL01

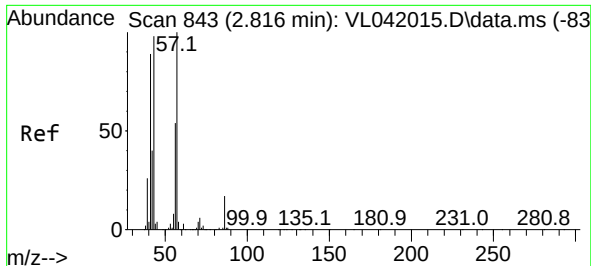
Tgt Ion: 43	Resp: 508
Ion Ratio	Lower Upper
43 100	
86 0.0	8.1 12.1#
42 4.6	7.5 11.3#
44 103.7	4.5 6.7#



#25
 Ethyl Acetate
 Concen: 0.346 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.022 min
 Lab File: VL042035.D
 Acq: 21 Feb 2025 11:07

Tgt	Ion: 43	Resp:	16348
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.1	12.1#
61	0.1	7.5	11.3#
70	2.6	7.1	10.7#

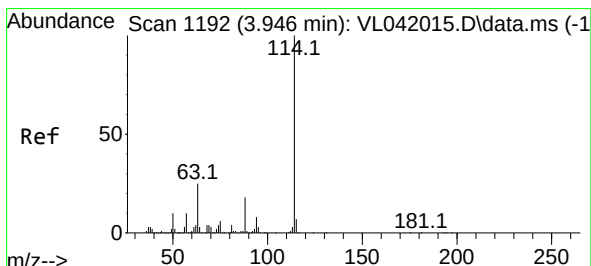
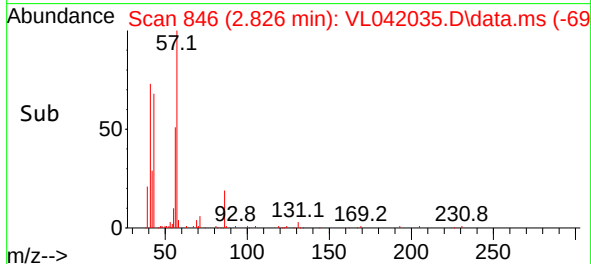
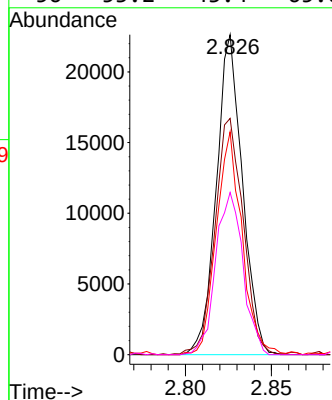
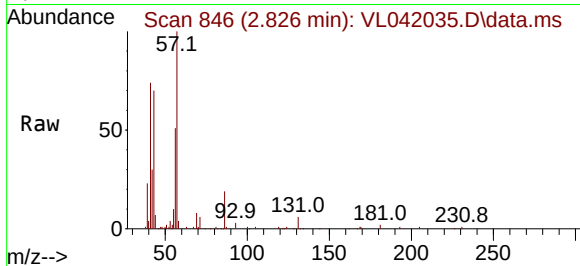




#26
Hexane
Concen: 1.259 ppbv
RT: 2.826 min Scan# 843
Delta R.T. -0.013 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

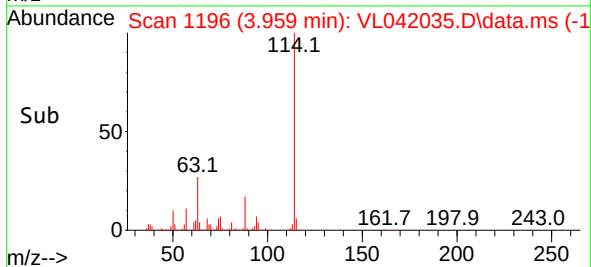
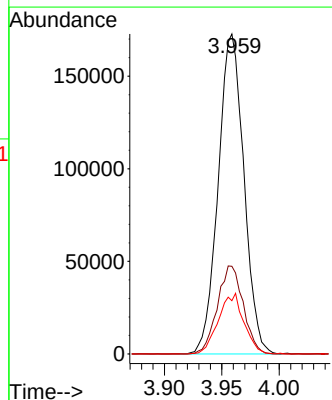
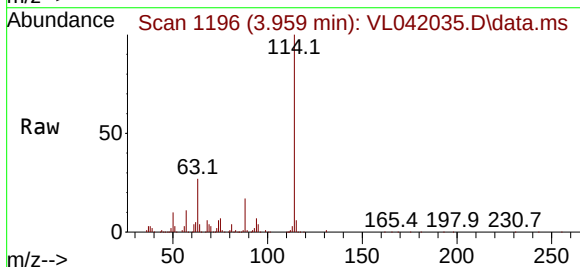
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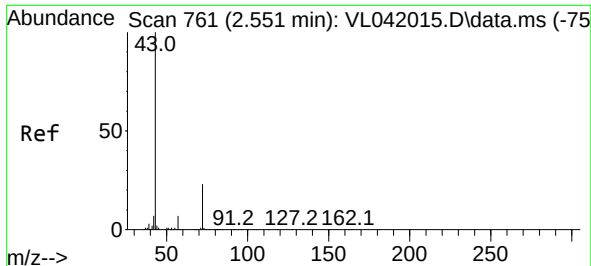
Tgt Ion: 57 Resp: 23875
Ion Ratio Lower Upper
57 100
41 80.1 73.2 109.8
43 69.5 200.8 301.2#
56 53.2 43.4 65.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.019 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

Tgt Ion:114 Resp: 269157
Ion Ratio Lower Upper
114 100
63 27.7 20.2 30.2
88 18.8 14.4 21.6

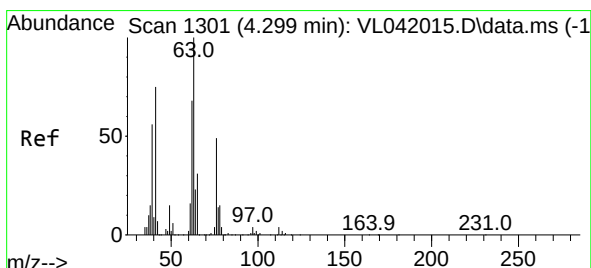
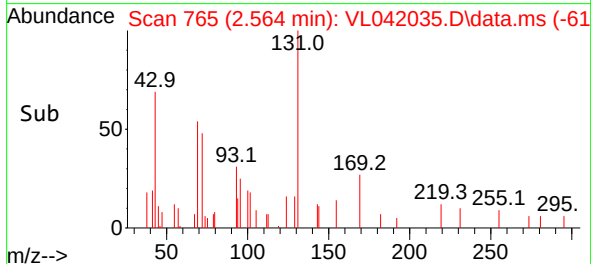
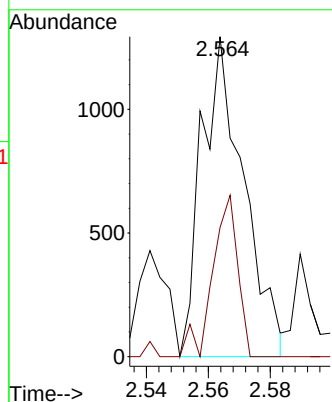
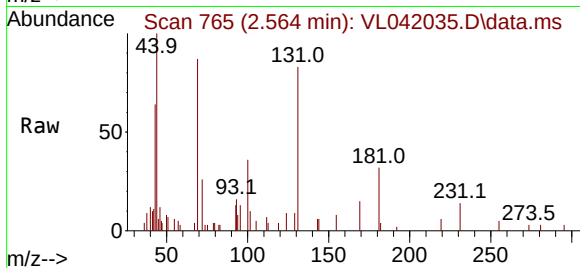




#34
2-Butanone
Concen: 0.053 ppbv
RT: 2.564 min Scan# 765
Delta R.T. -0.006 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

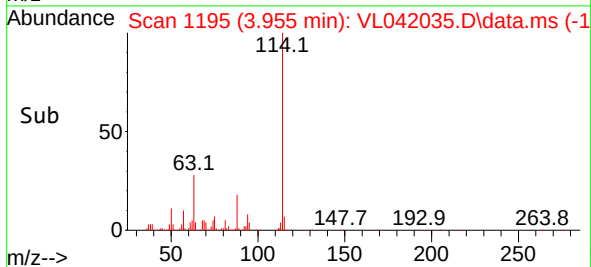
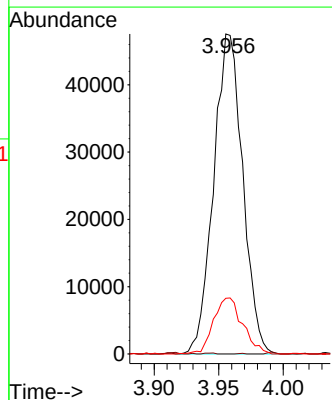
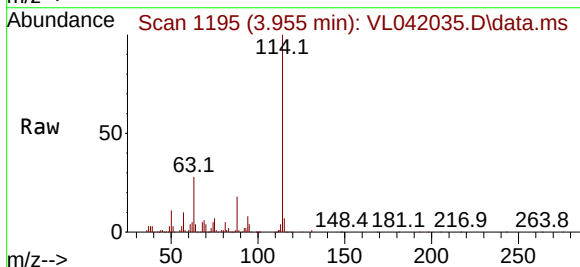
Instrument :
MSVOA_1
ClientSampleId :
VL0221ABL01

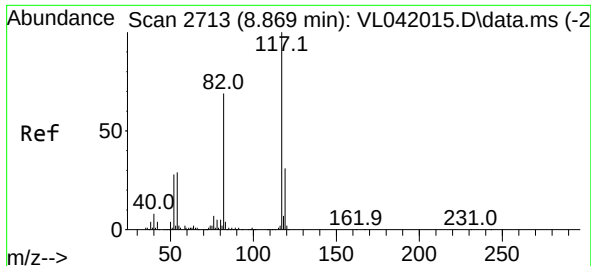
Tgt Ion: 43 Resp: 1219
Ion Ratio Lower Upper
43 100
72 29.9 18.3 27.5#



#39
1,2-Dichloropropane
Concen: 6.227 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.378 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 63 Resp: 74427
Ion Ratio Lower Upper
63 100
41 0.0 60.1 90.1#
62 17.4 54.0 81.0#

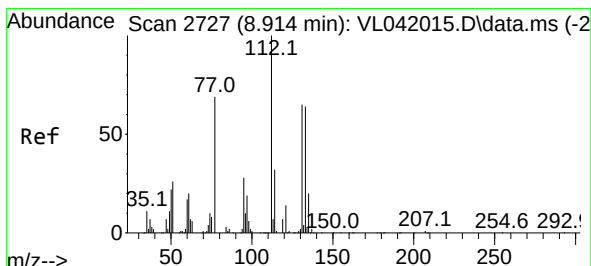
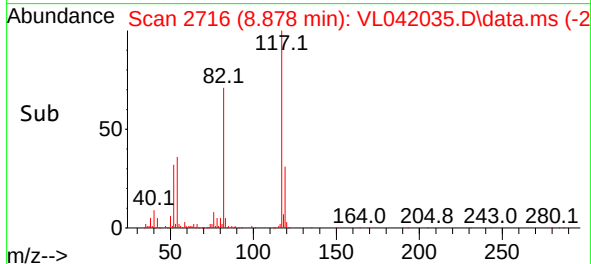
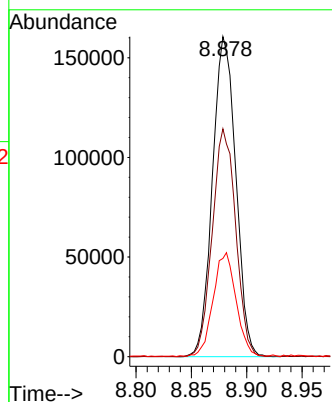
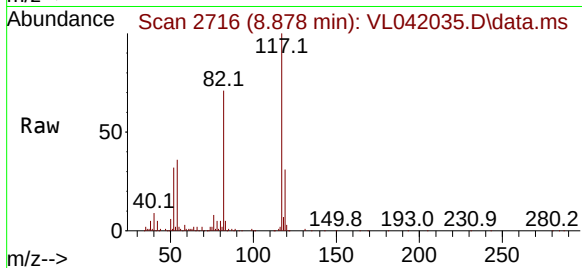




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

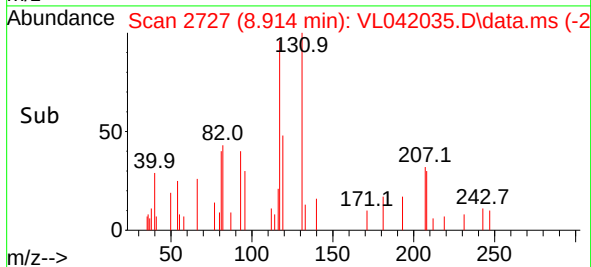
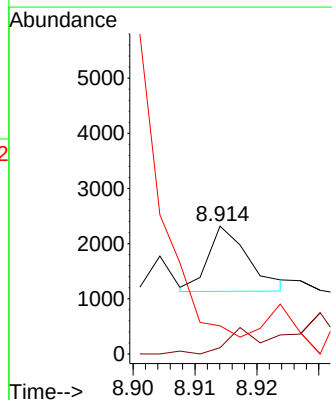
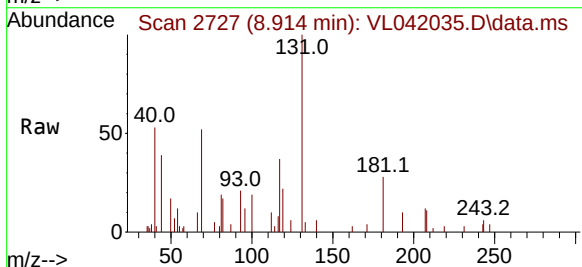
Instrument :
MSVOA_L
ClientSampleId :
VL0221ABL01

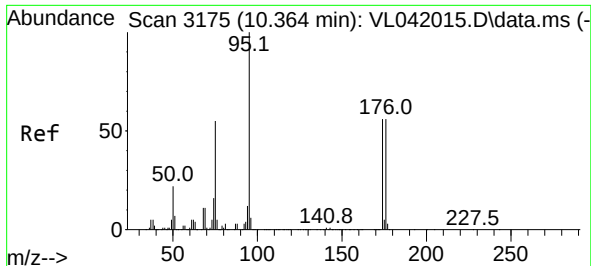
Tgt Ion:117 Resp: 235545
Ion Ratio Lower Upper
117 100
82 71.7 55.7 83.5
119 32.4 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.032 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.029 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

Tgt Ion:131 Resp: 537
Ion Ratio Lower Upper
131 100
133 0.0 77.8 116.8#
119 0.0 49.1 73.7#

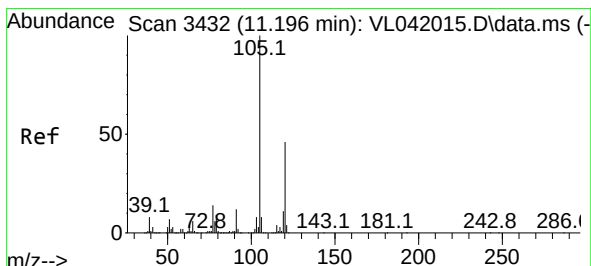
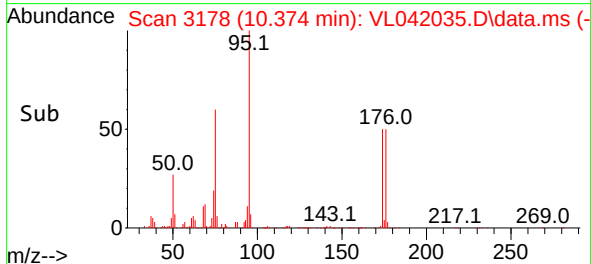
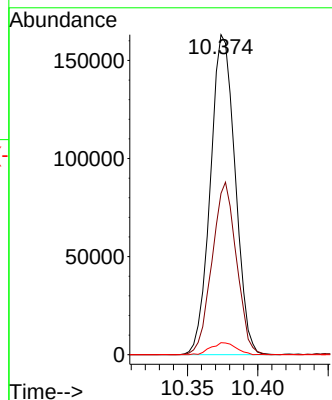
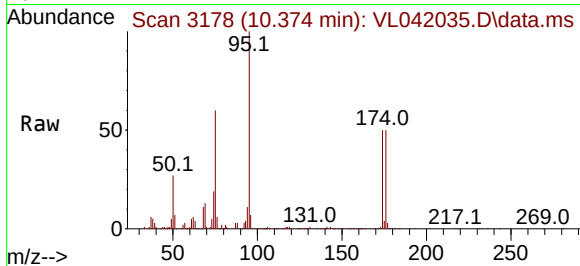




#68
1-Bromo-4-Fluorobenzene
Concen: 10.269 ppbv
RT: 10.374 min Scan# 3175
Delta R.T. -0.016 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

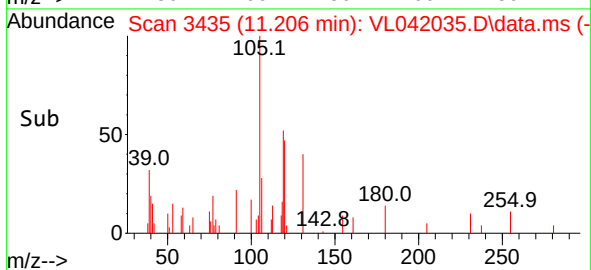
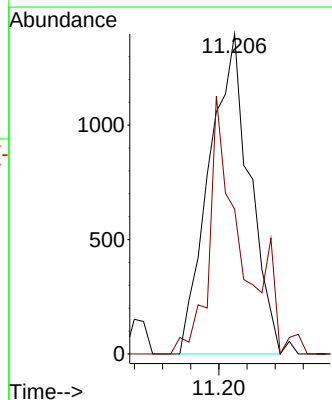
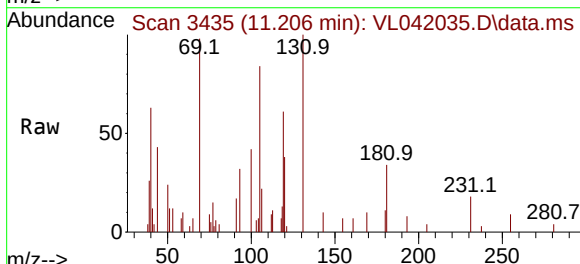
Instrument :
MSVOA_L
ClientSampleId :
VL0221ABL01

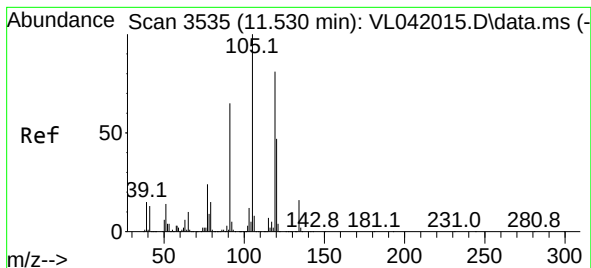
Tgt Ion: 95 Resp: 199523
Ion Ratio Lower Upper
95 100
174 53.2 46.7 70.1
175 3.8 3.7 5.5



#73
1,3,5-Trimethylbenzene
Concen: 0.034 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. -0.013 min
Lab File: VL042035.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 105 Resp: 1395
Ion Ratio Lower Upper
105 100
120 45.3 37.1 55.7





#74

1,2,4-Trimethylbenzene

Concen: 0.110 ppbv

RT: 11.536 min Scan# 3

Delta R.T. -0.016 min

Lab File: VL042035.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA_L

ClientSampleId :

VL0221ABL01

Tgt Ion:105 Resp: 4898

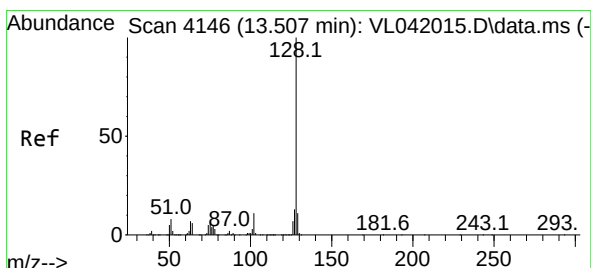
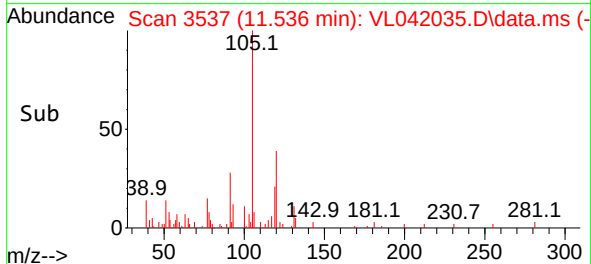
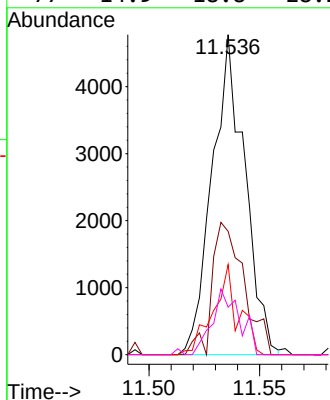
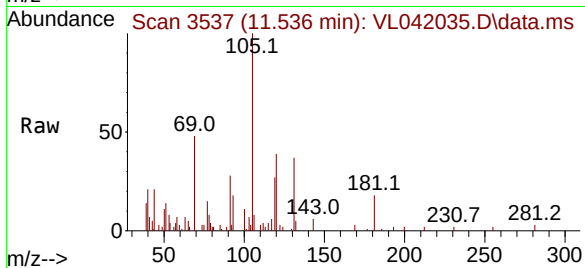
Ion Ratio Lower Upper

105 100

120 38.5 37.5 56.3

91 28.2 51.7 77.5#

77 14.9 18.8 28.2#



#79

Naphthalene

Concen: 0.051 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.013 min

Lab File: VL042035.D

Acq: 21 Feb 2025 11:07

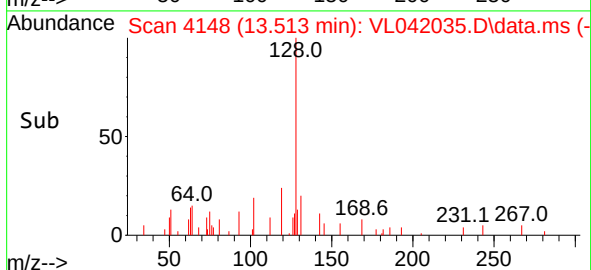
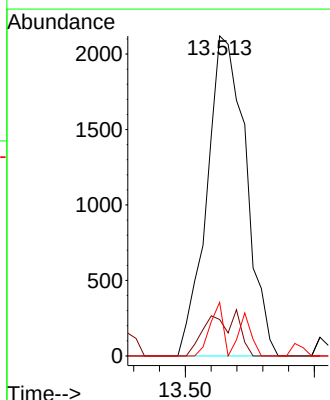
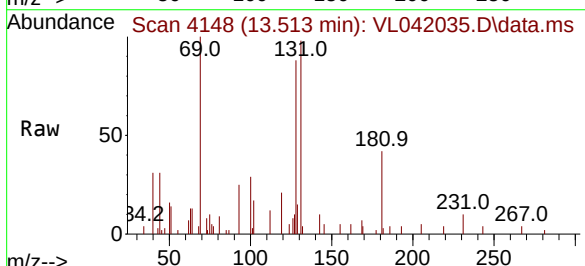
Tgt Ion:128 Resp: 2224

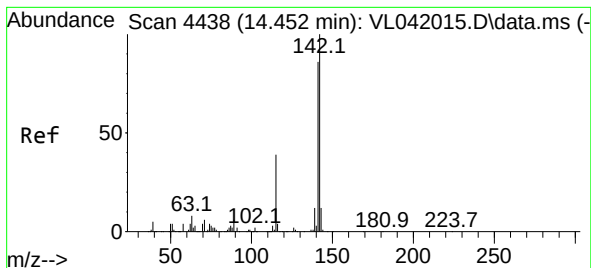
Ion Ratio Lower Upper

128 100

127 11.4 10.2 15.2

129 16.7 8.6 13.0#





#80

Naphthalene, 2-methyl-

Concen: 0.053 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.000 min

Lab File: VL042035.D

Acq: 21 Feb 2025 11:07

Instrument :

MSVOA_L

ClientSampleId :

VL0221ABL01

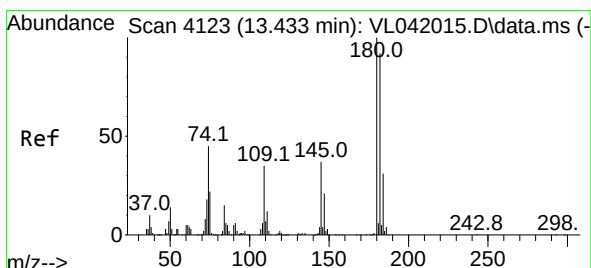
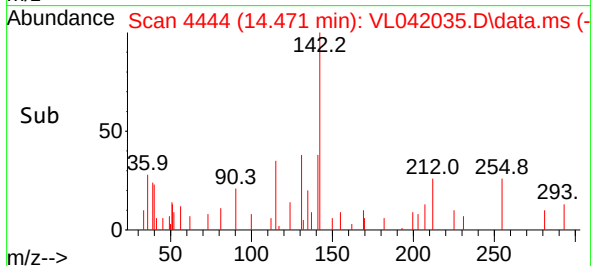
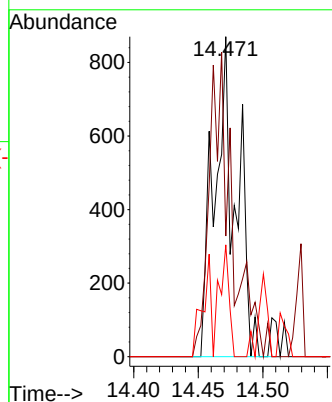
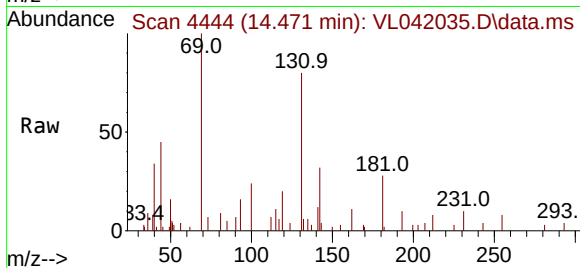
Tgt Ion:142 Resp: 1046

Ion Ratio Lower Upper

142 100

141 105.4 68.2 102.2#

115 27.2 33.6 50.4#



#81

1,2,4-Trichlorobenzene

Concen: 0.042 ppbv

RT: 13.442 min Scan# 4126

Delta R.T. -0.013 min

Lab File: VL042035.D

Acq: 21 Feb 2025 11:07

Tgt Ion:180 Resp: 751

Ion Ratio Lower Upper

180 100

182 152.6 75.8 113.6#

184 46.2 24.2 36.4#

