

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%

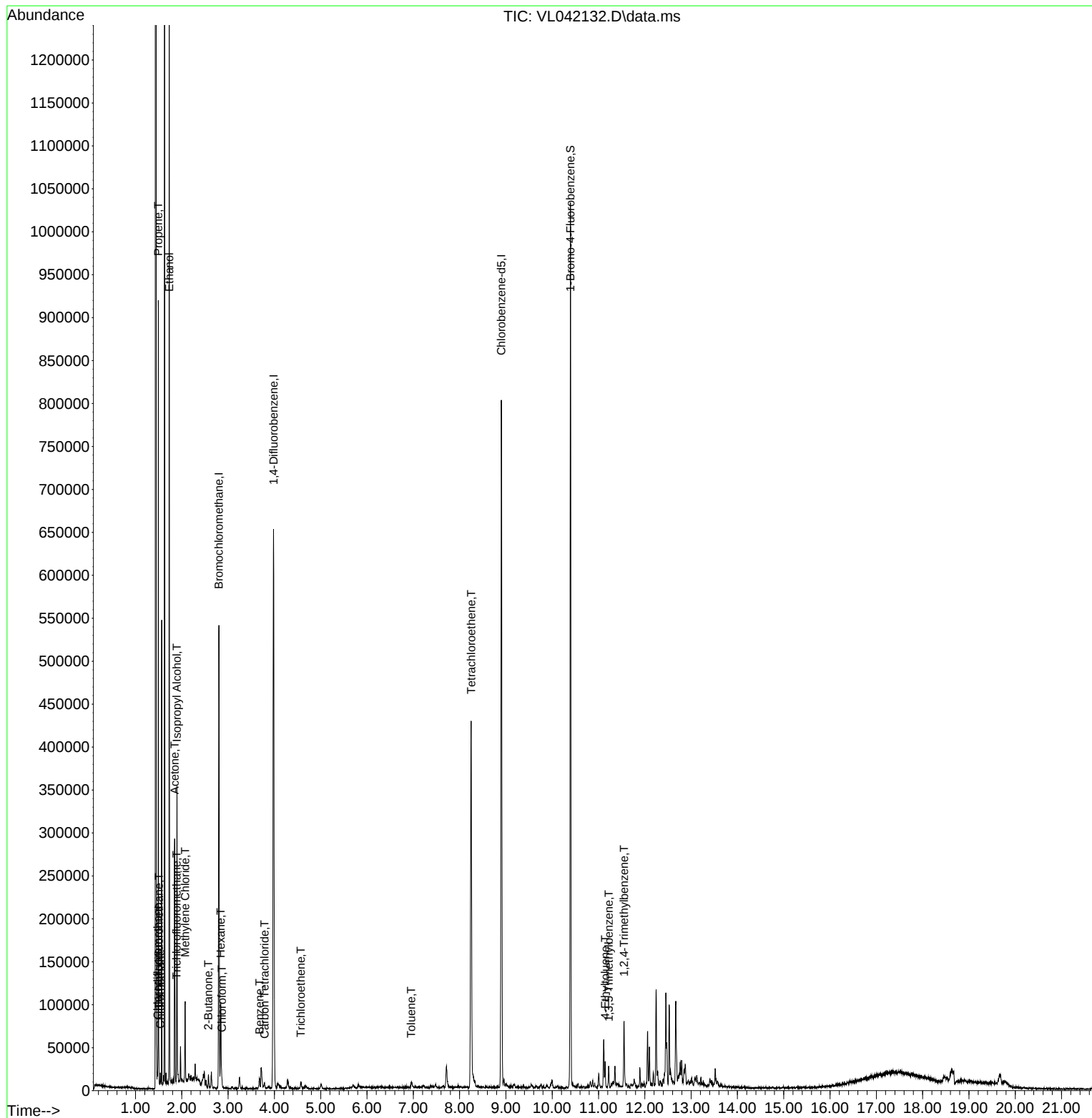
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	9353	0.564	ppbv	99
3) Chlorodifluoromethane	1.483	51	5935m	0.256	ppbv	
4) Chloromethane	1.538	50	4002	0.652	ppbv #	77
9) Propene	1.492	41	65925m	6.976	ppbv	
11) Trichlorofluoromethane	1.887	101	4652m	0.280	ppbv	
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

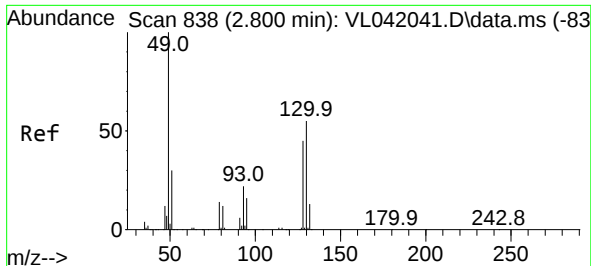
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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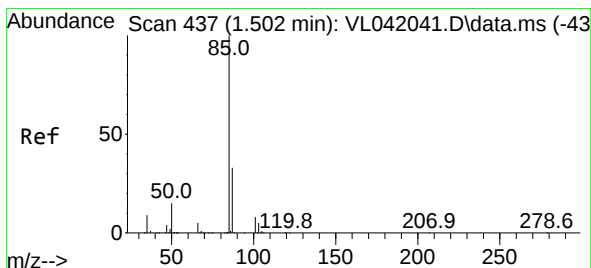
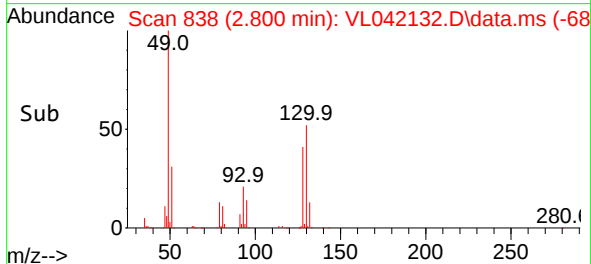
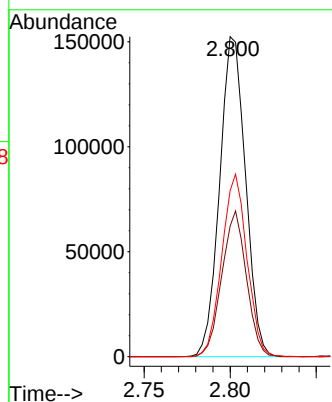
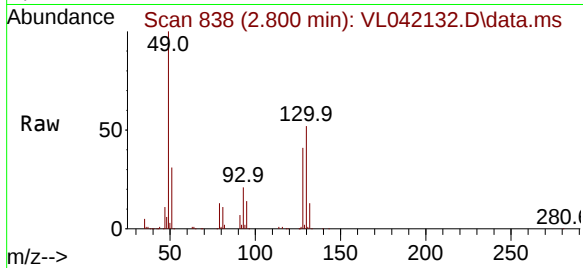




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042132.D
 Acq: 10 Mar 2025 18:57

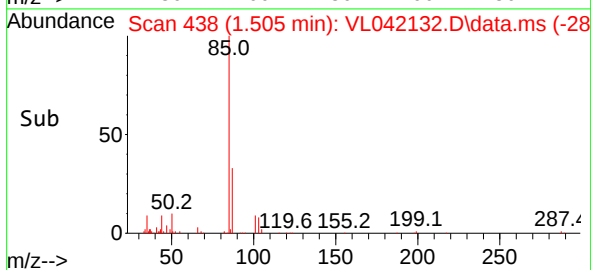
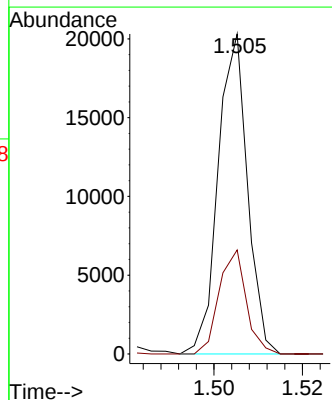
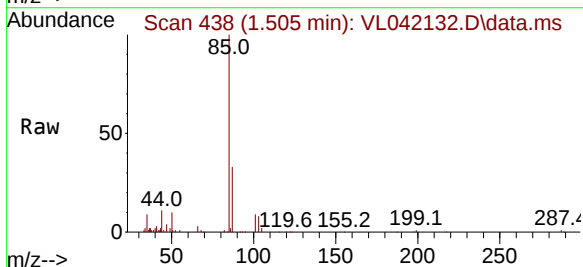
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

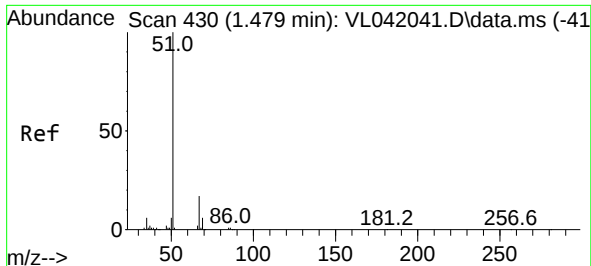
Tgt Ion: 49 Resp: 159604
 Ion Ratio Lower Upper
 49 100
 128 43.2 21.6 64.8
 130 55.4 27.8 83.4



#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

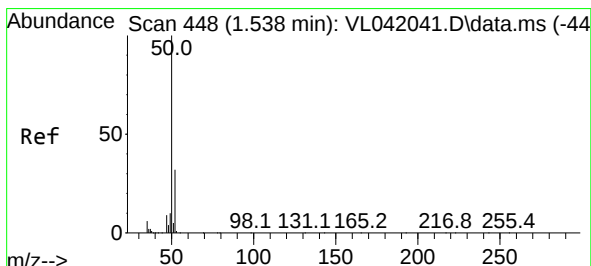
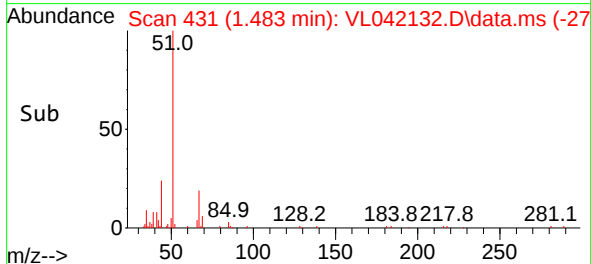
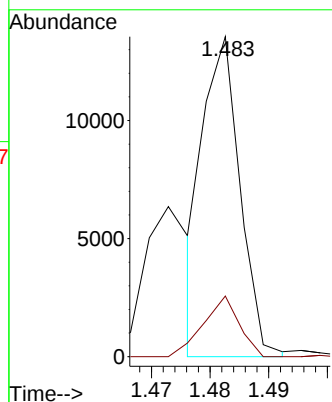
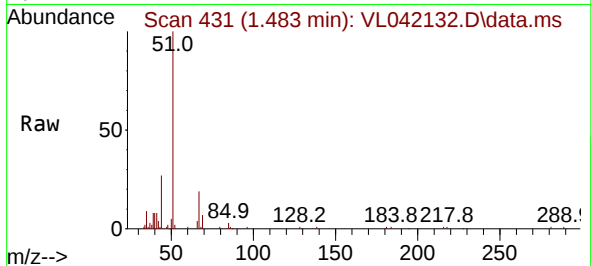




#3
Chlorodifluoromethane
Concen: 0.256 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

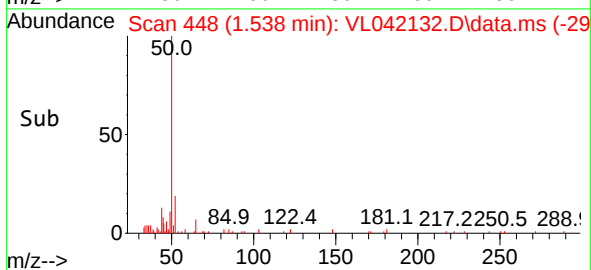
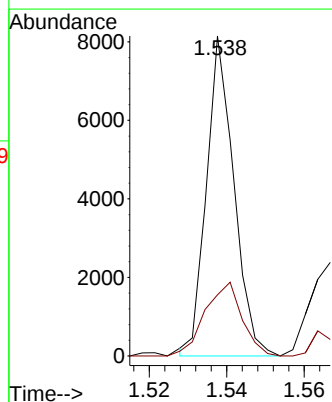
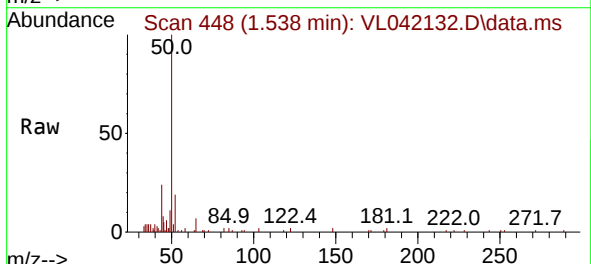
Instrument :
MSVOA_L
ClientSampleId :
IA1

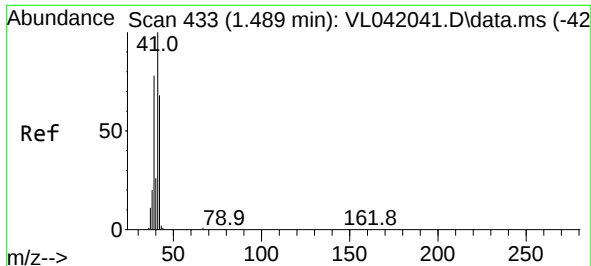
Tgt Ion: 51 Resp: 5935
Ion Ratio Lower Upper
51 100
67 19.2 13.7 20.5



#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 :

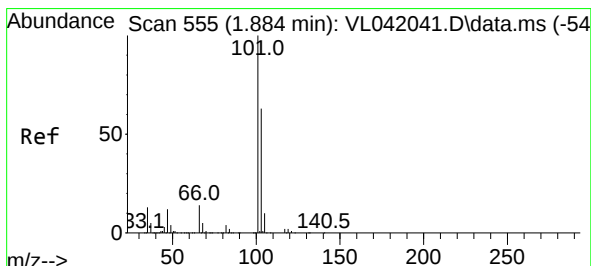
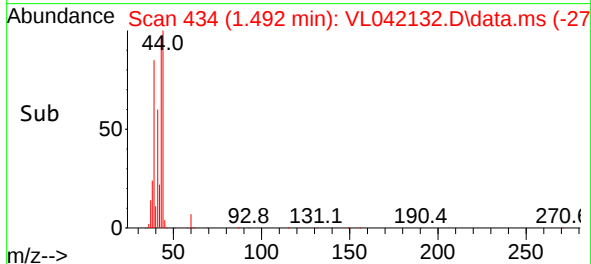
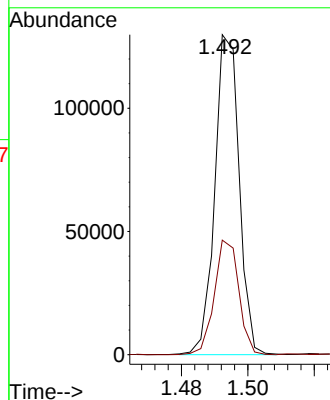
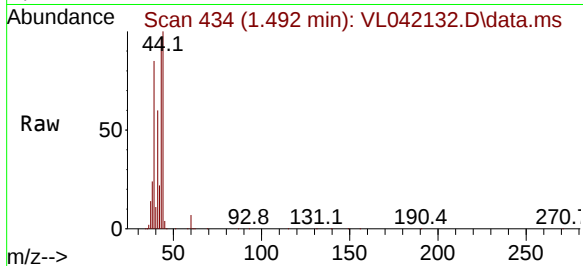
IA1

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

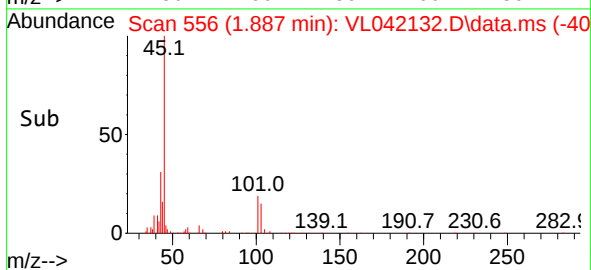
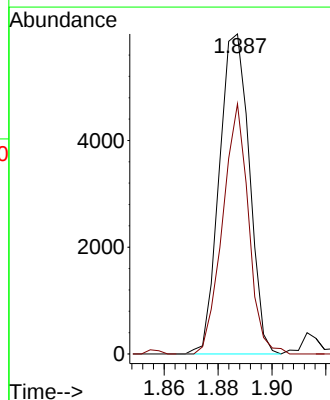
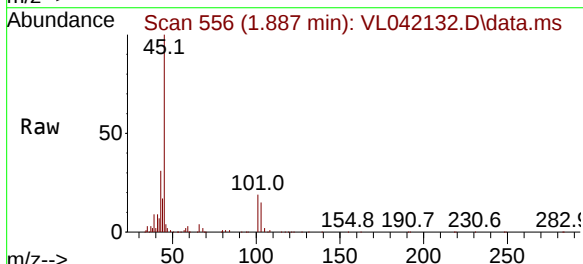
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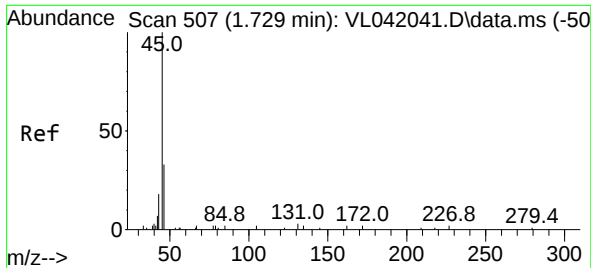
Tgt Ion:101 Resp: 4652

Ion Ratio Lower Upper

101 100

103 78.1 50.6 75.8#

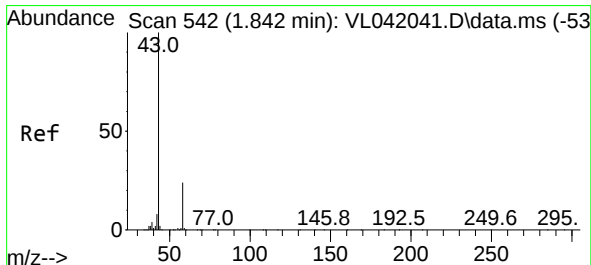
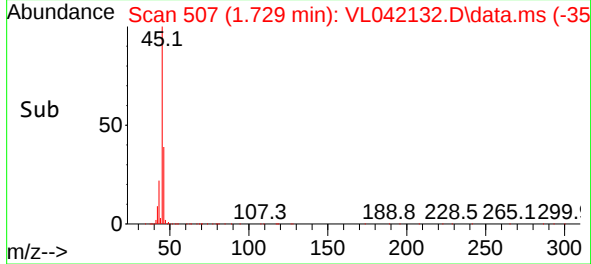
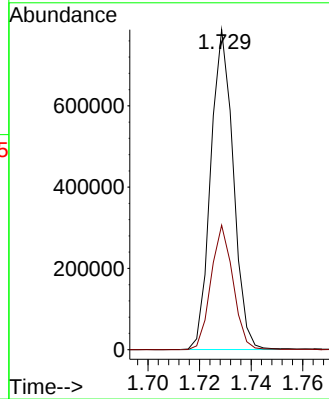
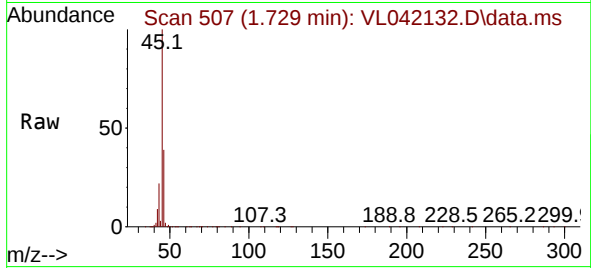




#13
Ethanol
Concen: 795.501 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

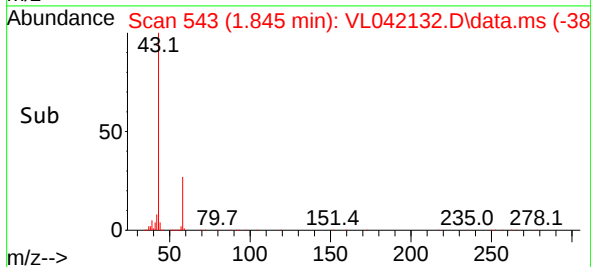
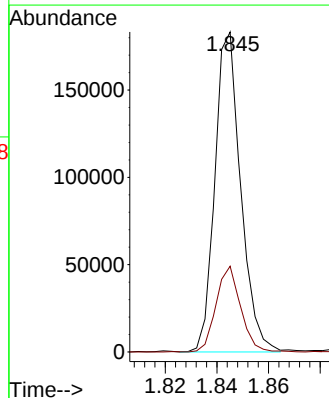
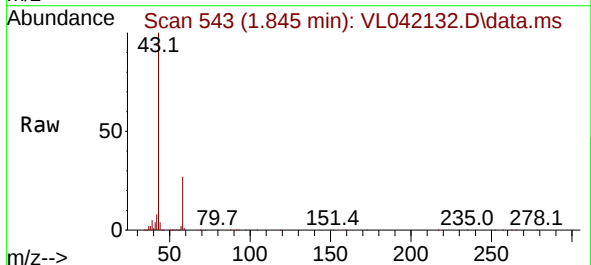
Instrument :
MSVOA_L
ClientSampleId :
IA1

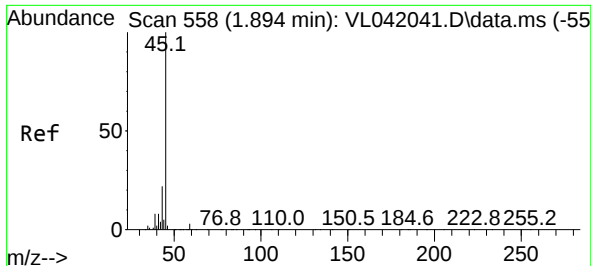
Tgt Ion: 45 Resp: 477214
Ion Ratio Lower Upper
45 100
46 38.4 17.1 68.3



#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

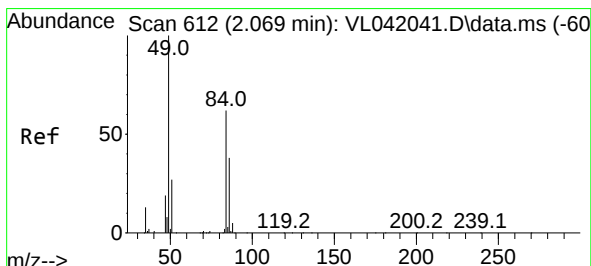
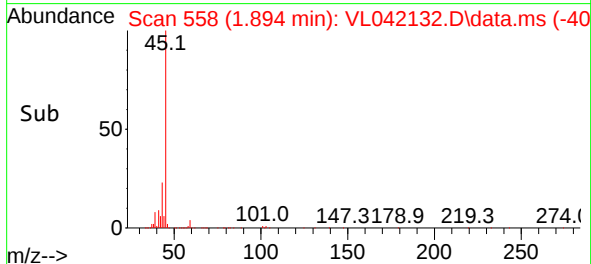
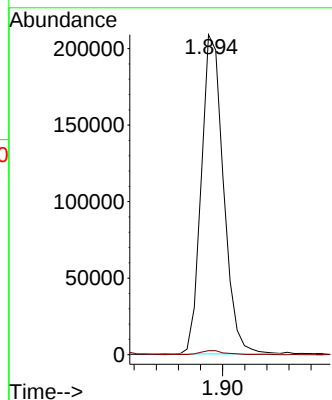
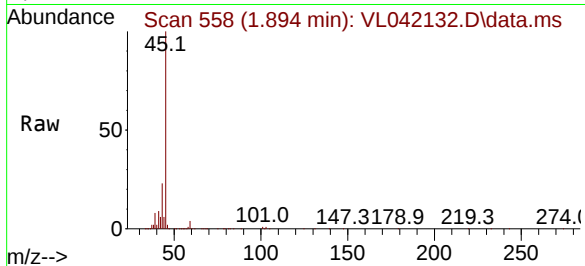




#19
Isopropyl Alcohol
Concen: 17.961 ppbv
RT: 1.894 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

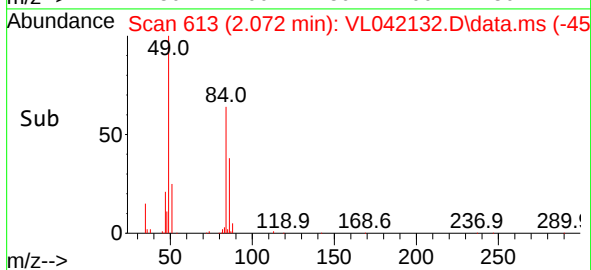
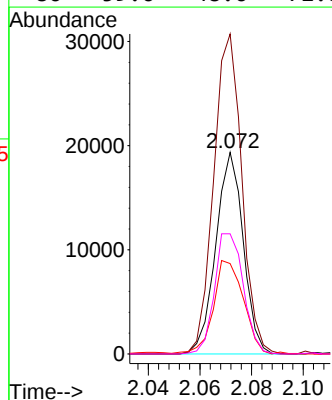
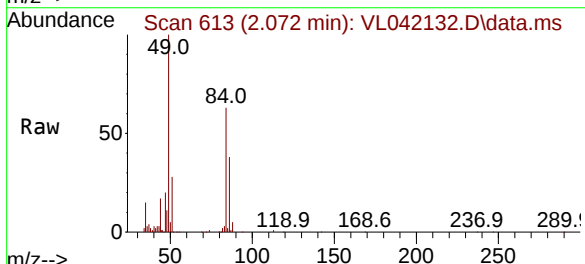
Instrument :
MSVOA_L
ClientSampleId :
IA1

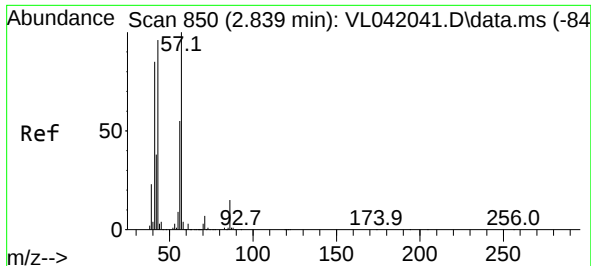
Tgt Ion: 45 Resp: 145417
Ion Ratio Lower Upper
45 100
58 22.4 35.3 52.9#



#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

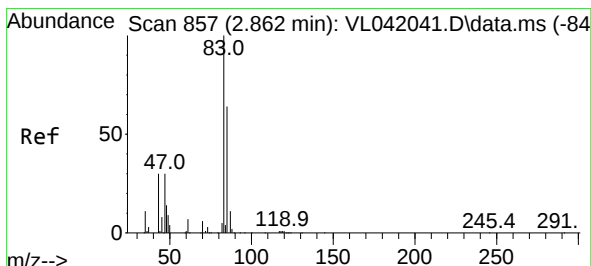
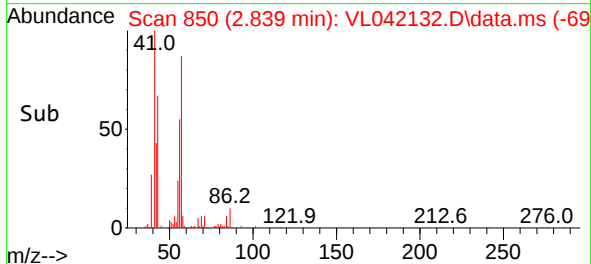
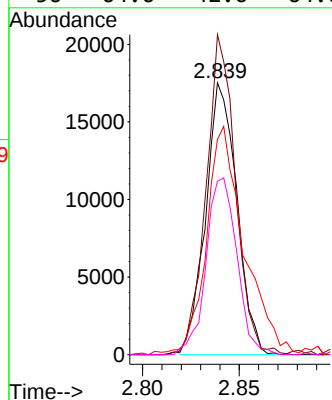
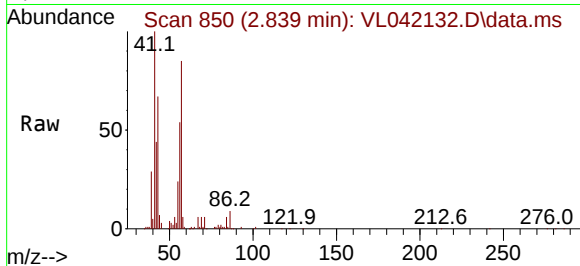




#26
Hexane
Concen: 0.863 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

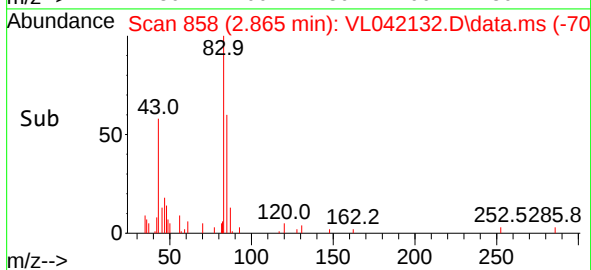
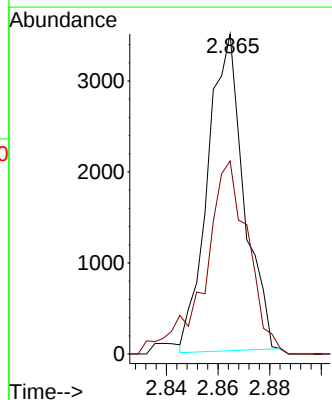
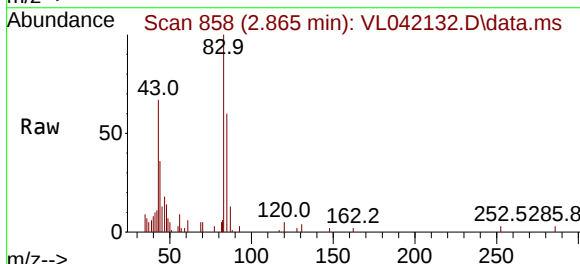
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MSVOA_L
ClientSampleId :
IA1

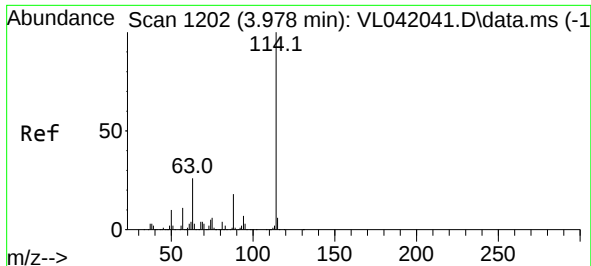
Tgt Ion: 57	Resp: 19683
Ion Ratio	Lower Upper
57 100	
41 112.5	70.6 106.0#
43 104.2	199.4 299.0#
56 64.6	42.6 64.0#



#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

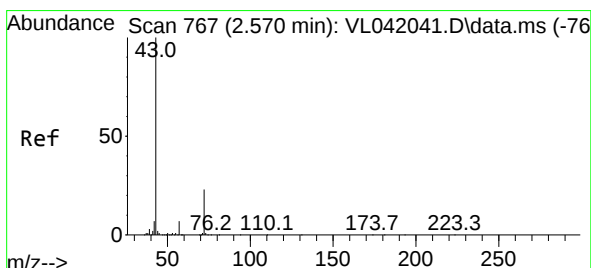
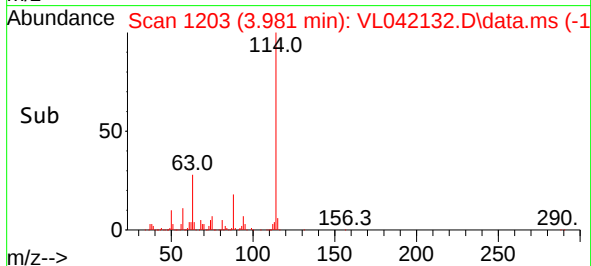
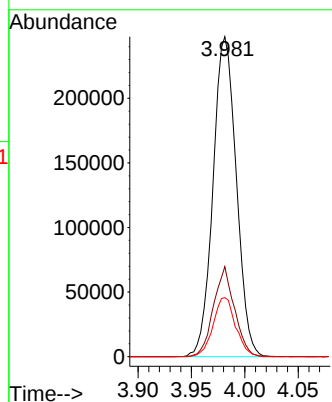
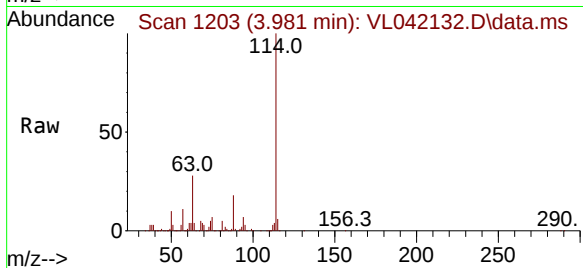
Tgt Ion:114 Resp: 375544

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

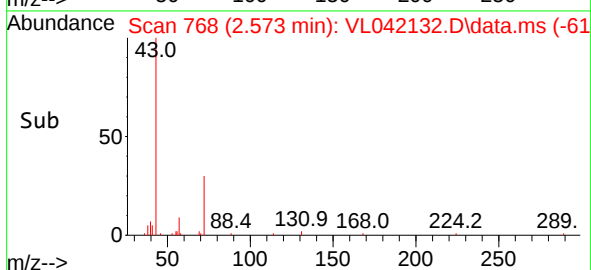
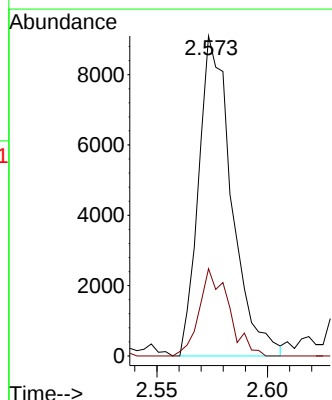
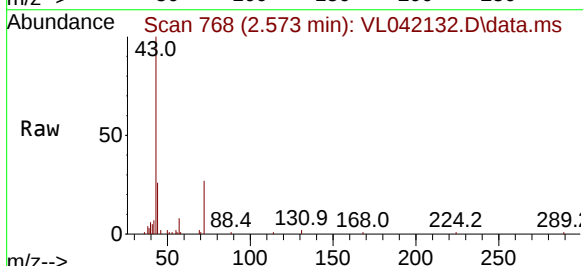
Acq: 10 Mar 2025 18:57

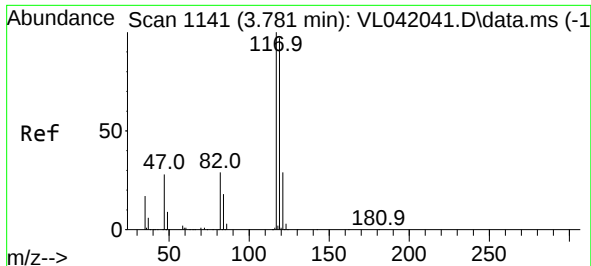
Tgt Ion: 43 Resp: 9462

Ion Ratio Lower Upper

43 100

72 24.4 18.5 27.7

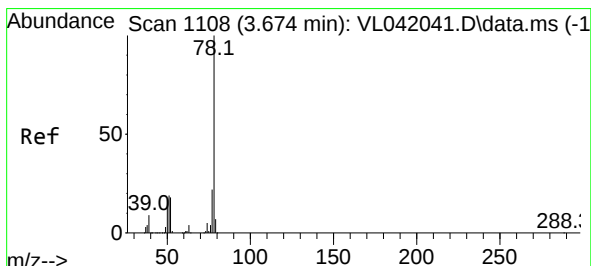
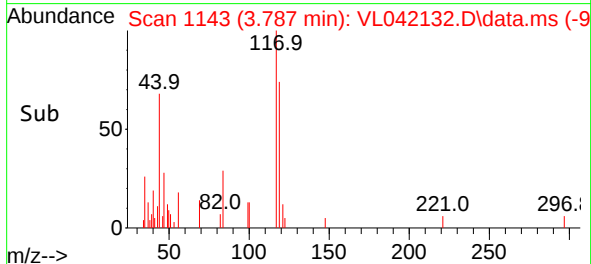
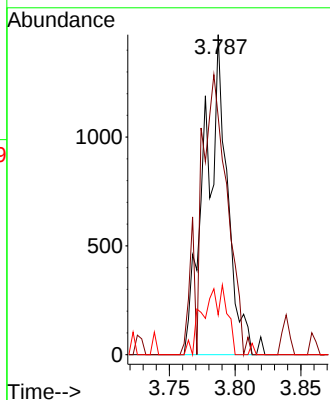
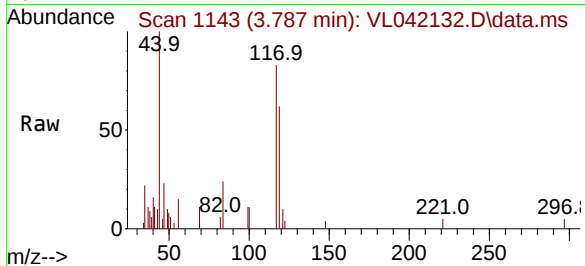




#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.787 min Scan# 1141
Delta R.T. 0.006 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

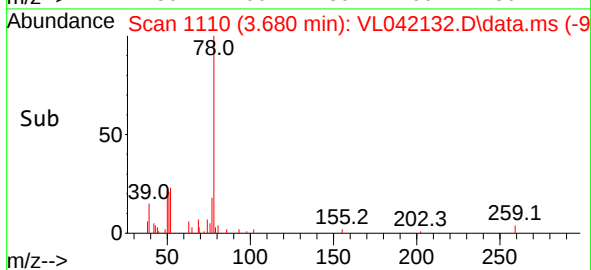
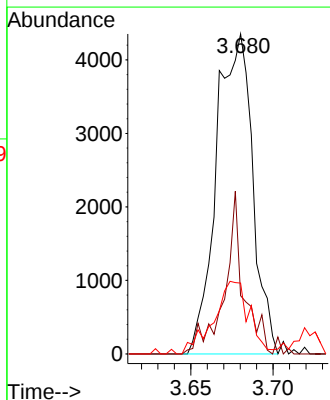
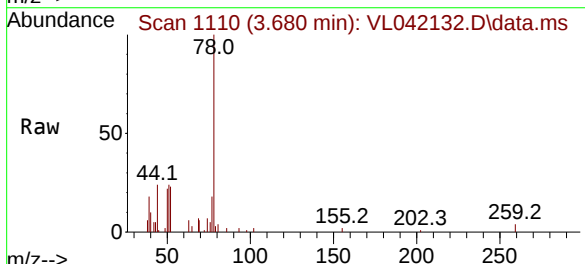
Instrument :
MSVOA_L
ClientSampleId :
IA1

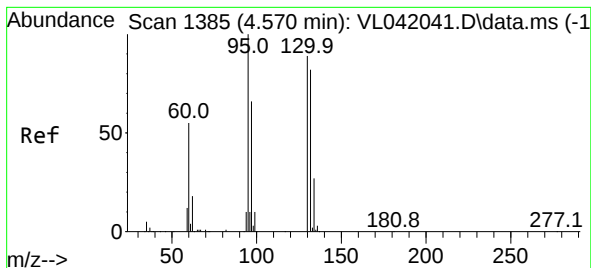
Tgt Ion:117 Resp: 1758
Ion Ratio Lower Upper
117 100
119 74.3 77.8 116.8#
121 12.4 23.4 35.0#



#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# 1385

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

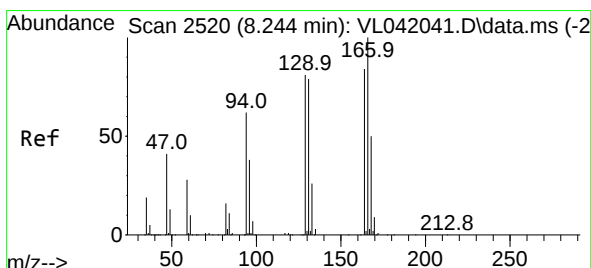
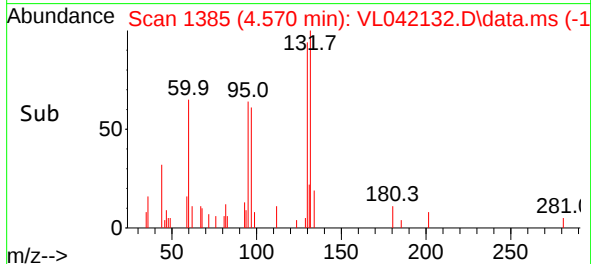
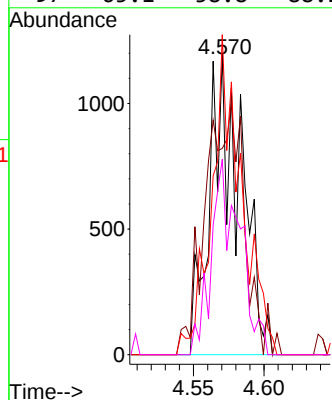
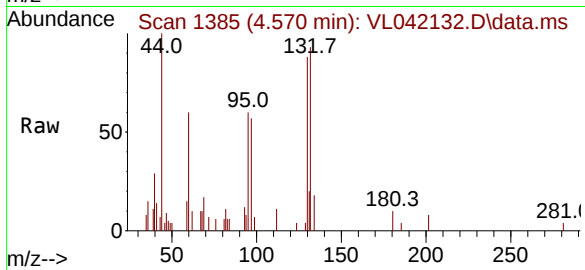
Ion Ratio Lower Upper

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

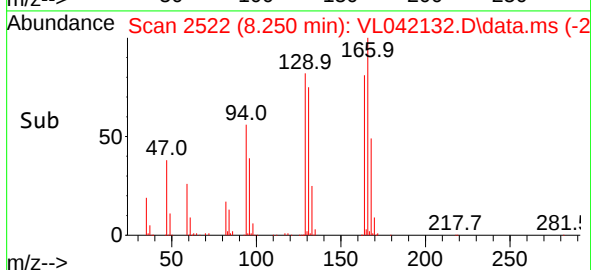
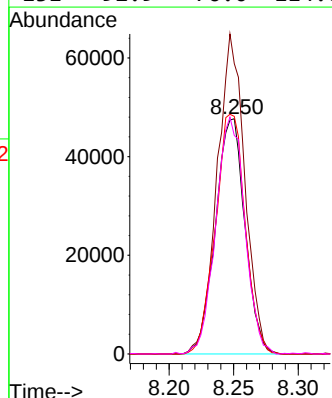
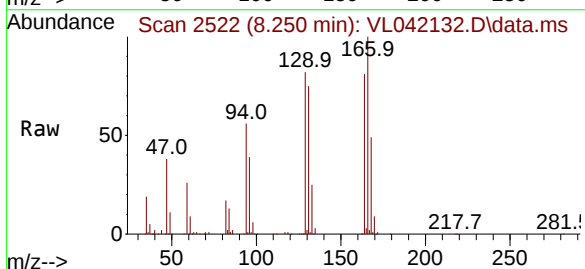
Ion Ratio Lower Upper

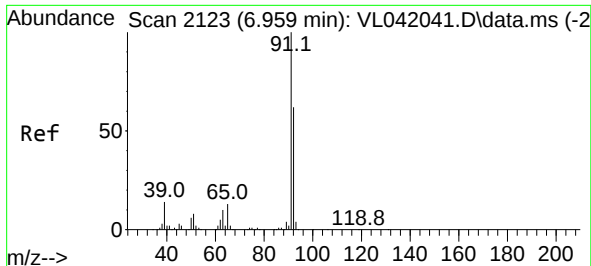
164 100

166 123.5 95.7 143.5

129 101.0 77.1 115.7

131 92.9 76.0 114.0

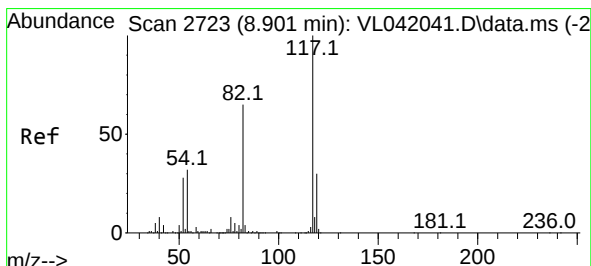
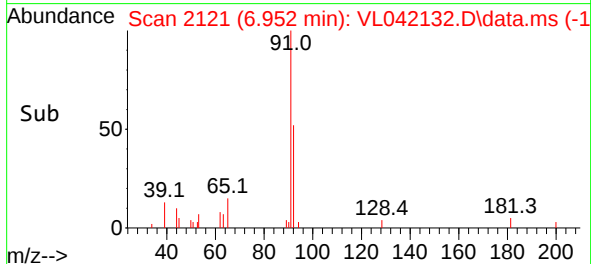
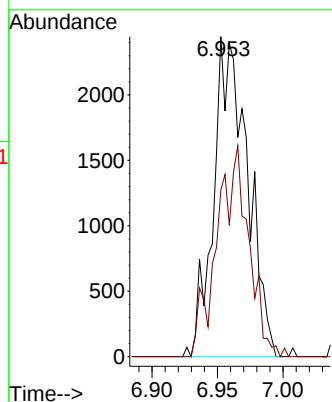
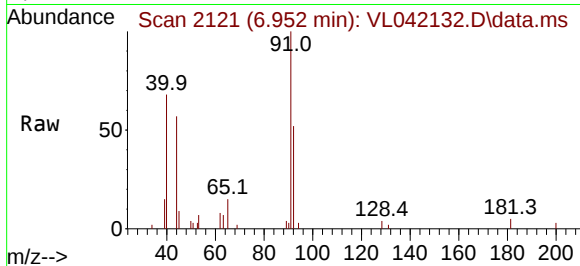




#53
Toluene
Concen: 0.100 ppbv m
RT: 6.952 min Scan# 2121
Delta R.T. -0.007 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

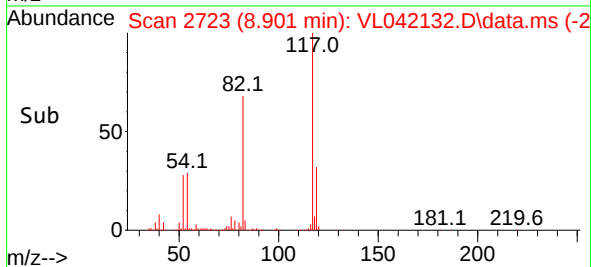
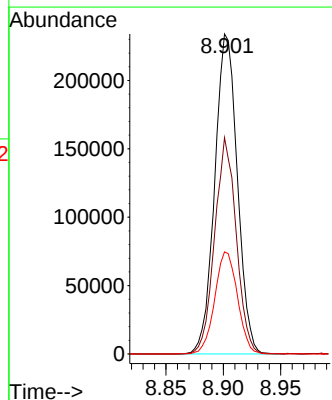
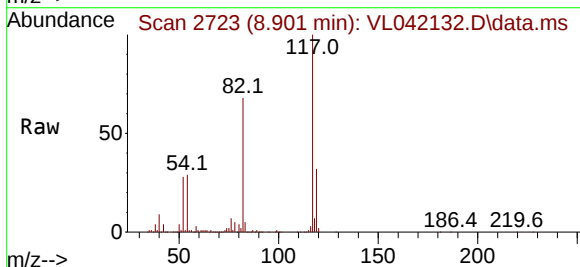
Instrument :
MSVOA_L
ClientSampleId :
IA1

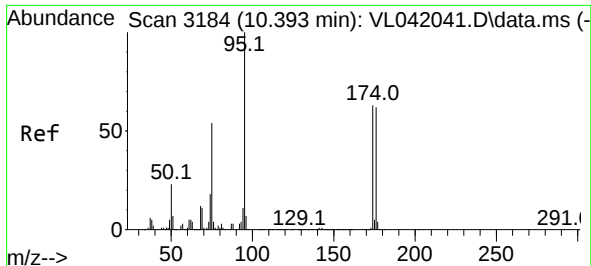
Tgt Ion: 91 Resp: 4407
Ion Ratio Lower Upper
91 100
92 62.1 49.0 73.6



#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

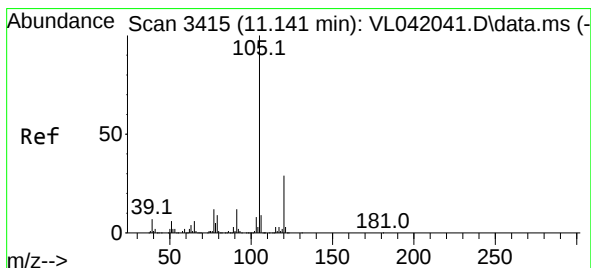
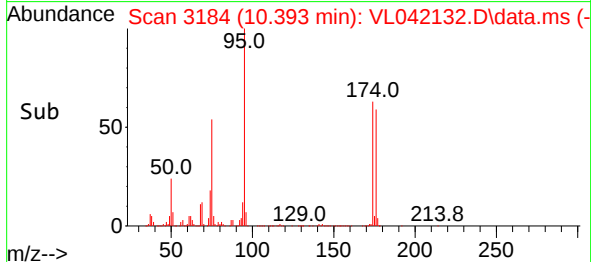
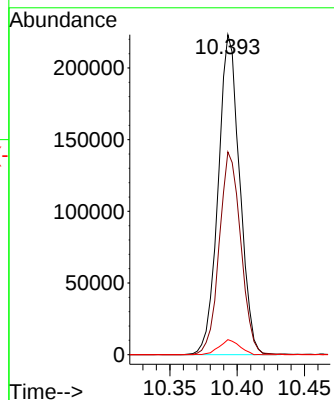
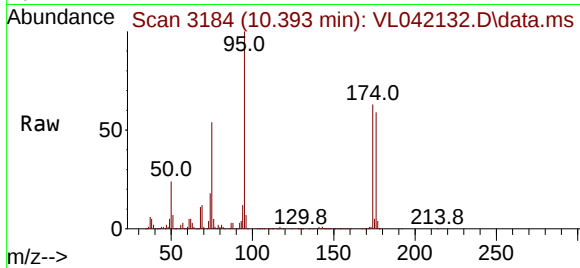




#68
1-Bromo-4-Fluorobenzene
Concen: 10.009 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042132.D
Acq: 10 Mar 2025 18:57

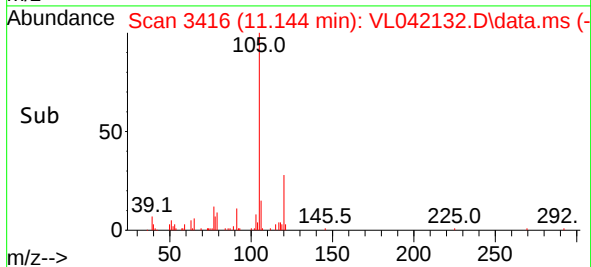
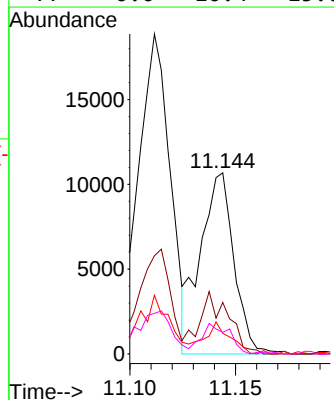
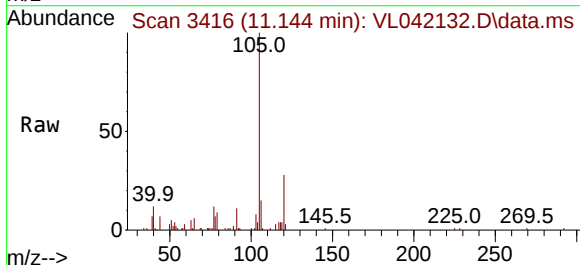
Instrument :
MSVOA_L
ClientSampleId :
IA1

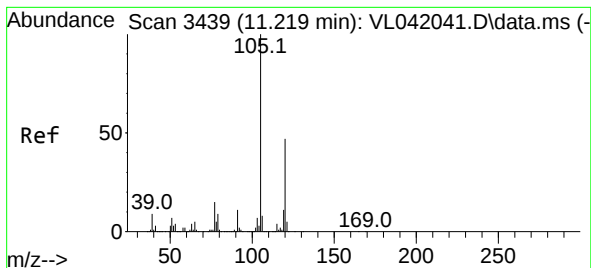
Tgt Ion: 95 Resp: 247451
Ion Ratio Lower Upper
95 100
174 63.6 51.8 77.6
175 4.5 3.9 5.9



#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 :

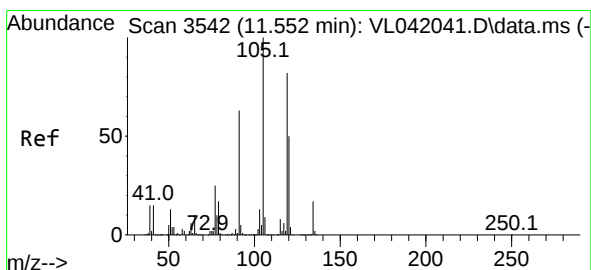
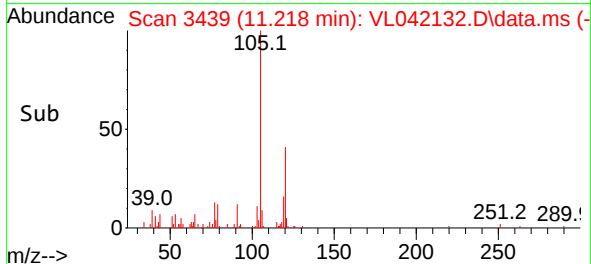
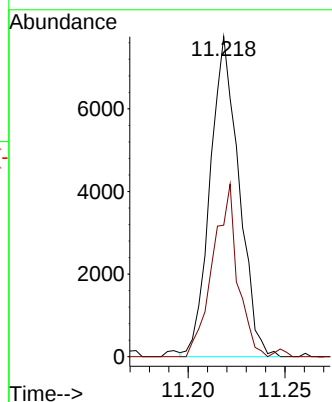
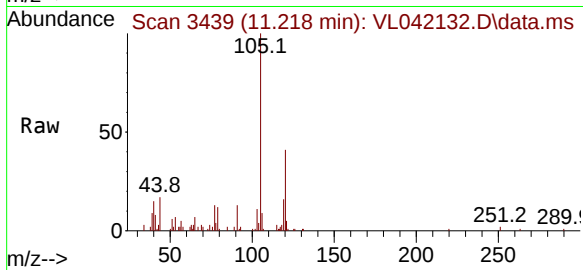
IA1

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

