

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
 Data File : VL042069.D
 Acq On : 27 Feb 2025 12:23
 Operator : SY/MD
 Sample : Q1450-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Feb 28 00:24:45 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)

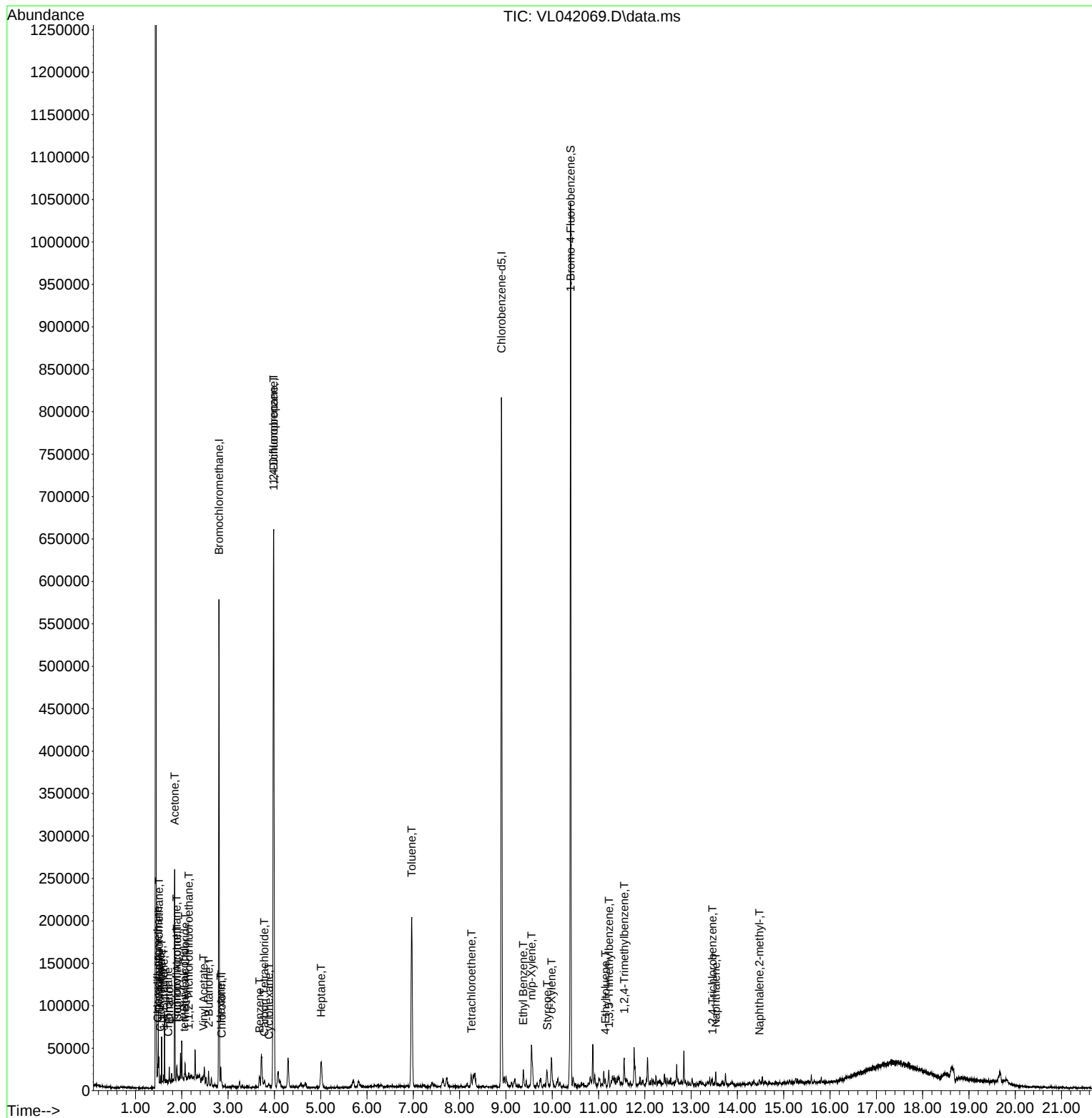
Internal Standards						
1) Bromochloromethane	2.803	49	168601	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.985	114	395632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	332649	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	262243	10.247	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.500%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	7455	0.425	ppbv	95
3) Chlorodifluoromethane	1.479	51	10897	0.445	ppbv #	89
4) Chloromethane	1.538	50	2363	0.364	ppbv	99
7) Chloroethane	1.709	64	101	0.041	ppbv #	51
9) Propene	1.564	41	5118	0.513	ppbv	96
10) Heptane	5.011	43	14440	0.465	ppbv	100
11) Trichlorofluoromethane	1.887	101	3703	0.211	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.153	101	1095	0.078	ppbv	88
13) Ethanol	1.732	45	6638	10.475	ppbv #	33
15) Acetone	1.845	43	107906	7.247	ppbv	98
16) 1,3-Butadiene	1.609	39	832	0.120	ppbv #	79
17) tert-Butyl alcohol	2.056	59	1246	0.067	ppbv #	65
19) Isopropyl Alcohol	1.897	45	6509	0.761	ppbv #	1
20) Methylene Chloride	2.075	84	2349	0.417	ppbv #	89
23) Vinyl Acetate	2.470	43	2365	0.226	ppbv #	66
26) Hexane	2.839	57	5577	0.231	ppbv #	47
29) Chloroform	2.861	83	1146	0.035	ppbv #	64
30) Cyclohexane	3.881	84	1054	0.054	ppbv #	61
34) 2-Butanone	2.580	43	10374	0.337	ppbv	96
35) Carbon Tetrachloride	3.784	117	1704	0.062	ppbv #	76
36) Benzene	3.680	78	8619	0.208	ppbv #	86
39) 1,2-Dichloropropane	3.981	63	105709	6.724	ppbv #	23
52) Tetrachloroethene	8.257	164	804	0.057	ppbv #	60
53) Toluene	6.962	91	140918	3.044	ppbv	100
58) Ethyl Benzene	9.374	91	10600	0.173	ppbv	92
59) m/p-Xylene	9.552	91	24753	0.508	ppbv #	100
60) o-Xylene	9.985	91	14039	0.286	ppbv	98
61) Styrene	9.895	104	3892	0.169	ppbv	86
72) 4-Ethyltoluene	11.147	105	2166	0.036	ppbv #	52
73) 1,3,5-Trimethylbenzene	11.225	105	3265	0.063	ppbv	90
74) 1,2,4-Trimethylbenzene	11.555	105	10077	0.172	ppbv #	63
79) Naphthalene	13.533	128	7078	0.177	ppbv	96
80) Naphthalene,2-methyl-	14.475	142	1810	0.165	ppbv #	80
81) 1,2,4-Trichlorobenzene	13.458	180	1129	0.051	ppbv	98

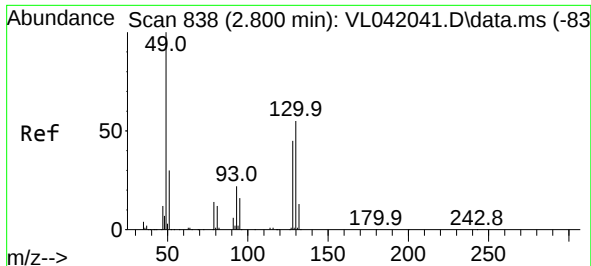
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022725\
Data File : VL042069.D
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IA1

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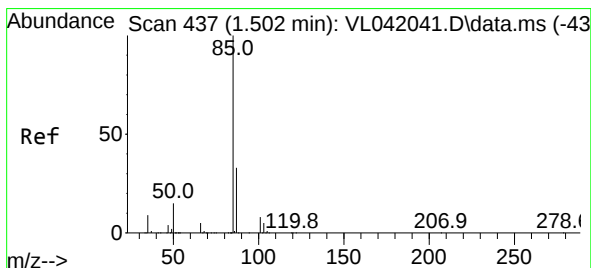
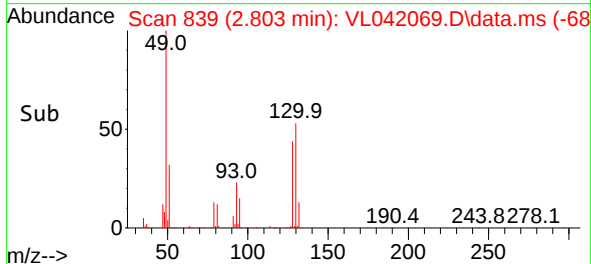
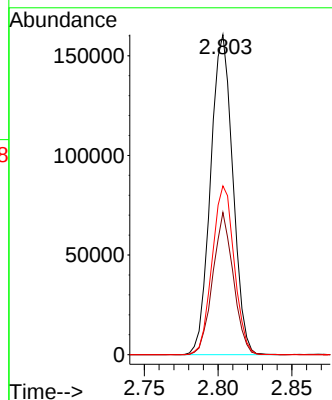
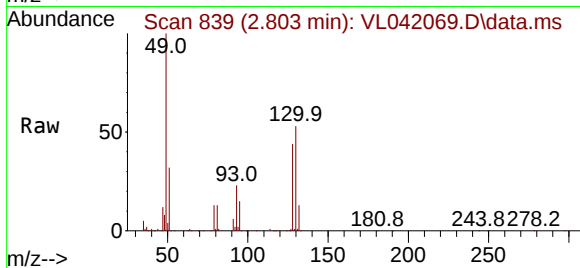




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

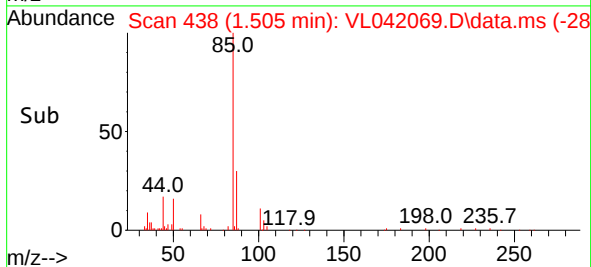
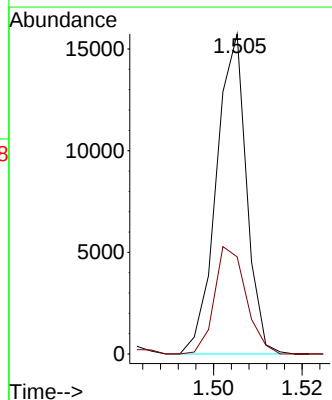
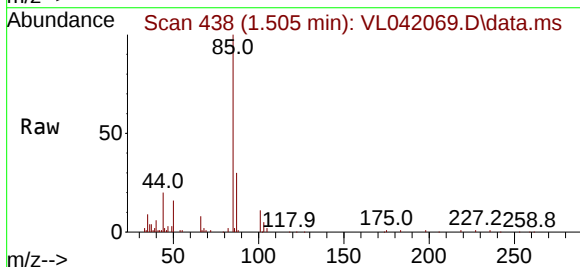
Instrument :
MSVOA_L
ClientSampleId :
IA1

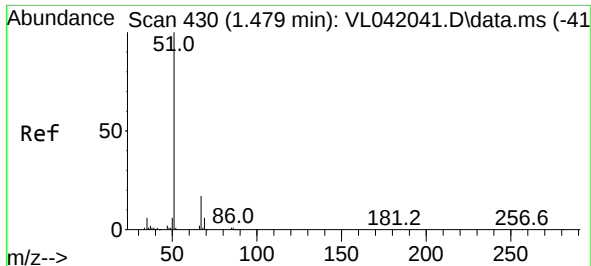
Tgt Ion: 49 Resp: 168601
Ion Ratio Lower Upper
49 100
128 41.1 21.6 64.8
130 52.4 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.425 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 85 Resp: 7455
Ion Ratio Lower Upper
85 100
87 30.4 26.4 39.6

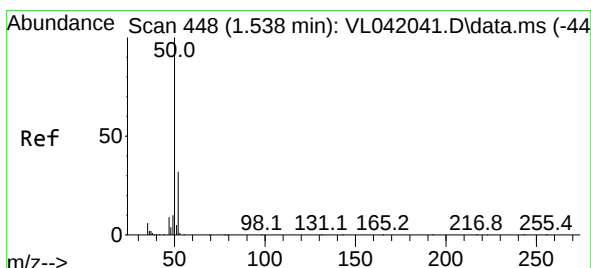
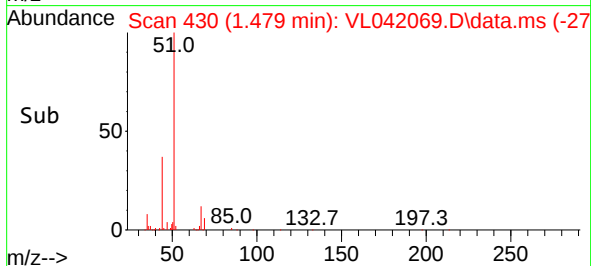
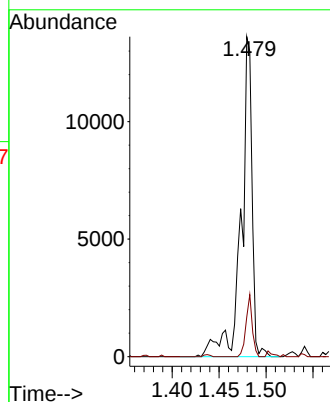
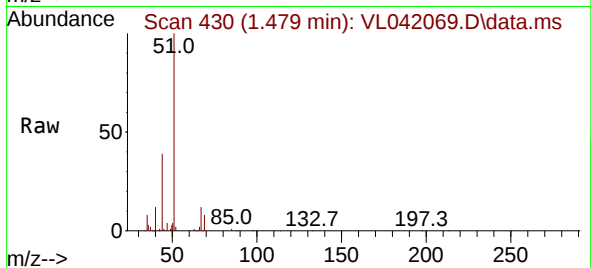




#3
Chlorodifluoromethane
Concen: 0.445 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

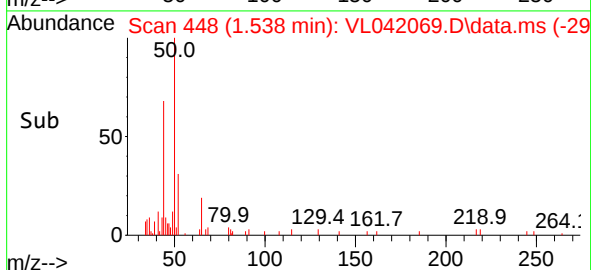
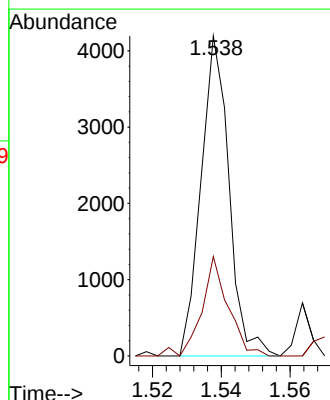
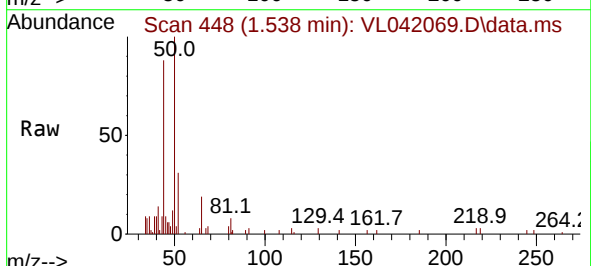
Instrument :
MSVOA_L
ClientSampleId :
IA1

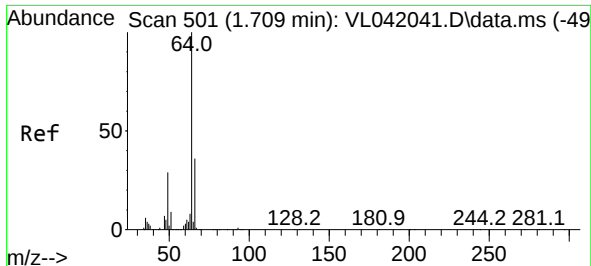
Tgt Ion: 51 Resp: 10897
Ion Ratio Lower Upper
51 100
67 12.2 13.7 20.5#



#4
Chloromethane
Concen: 0.364 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 50 Resp: 2363
Ion Ratio Lower Upper
50 100
52 31.1 25.4 38.0

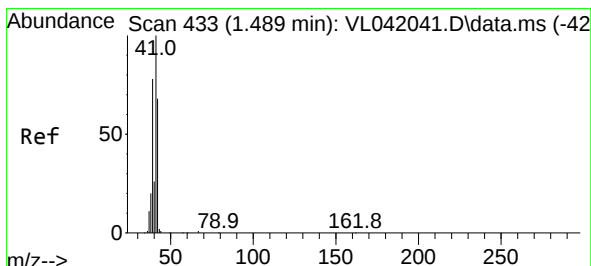
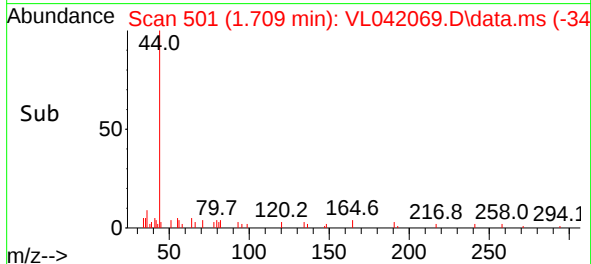
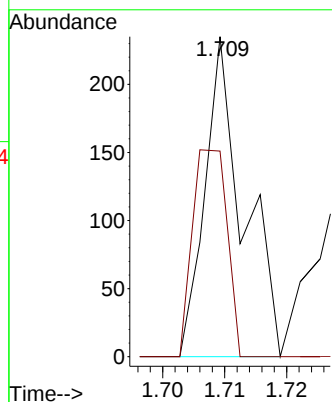
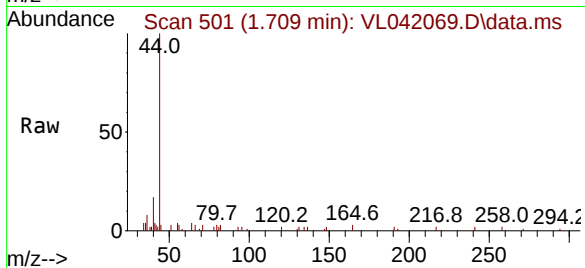




#7
Chloroethane
Concen: 0.041 ppbv
RT: 1.709 min Scan# 501
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

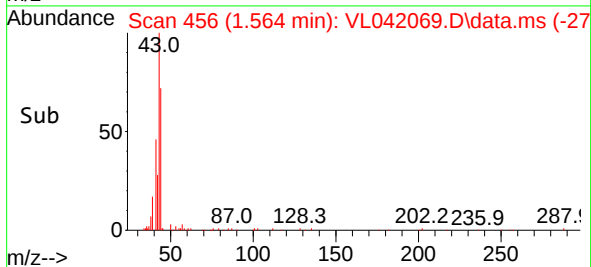
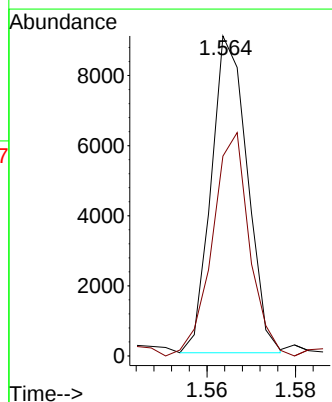
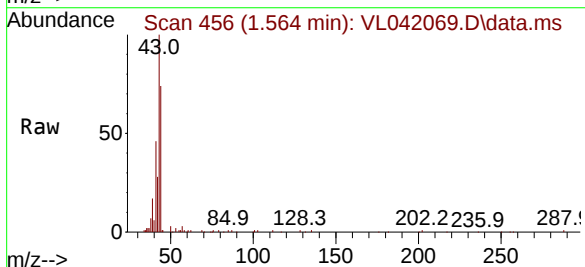
Instrument :
MSVOA_L
ClientSampleId :
IA1

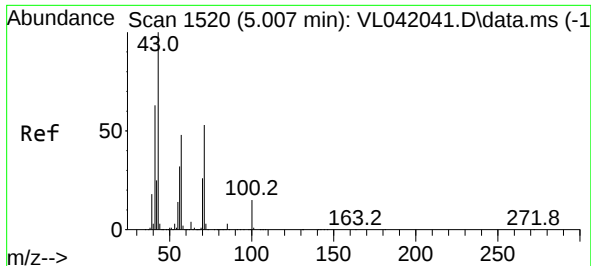
Tgt Ion: 64 Resp: 101
Ion Ratio Lower Upper
64 100
66 64.3 28.4 42.6#



#9
Propene
Concen: 0.513 ppbv
RT: 1.564 min Scan# 456
Delta R.T. 0.074 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 41 Resp: 5118
Ion Ratio Lower Upper
41 100
42 72.8 55.8 83.6





#10

Heptane

Concen: 0.465 ppbv

RT: 5.011 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL042069.D

Acq: 27 Feb 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

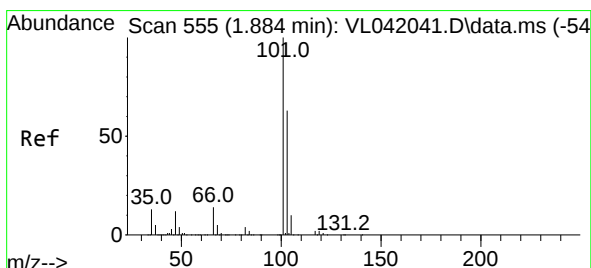
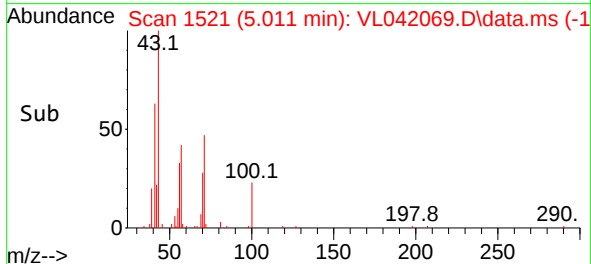
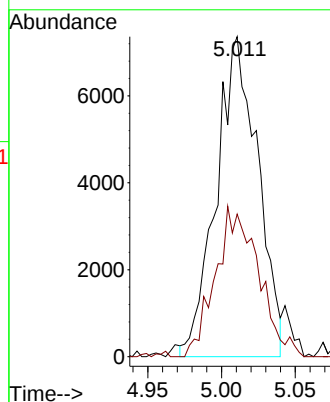
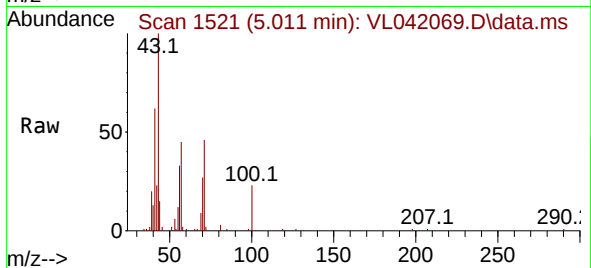
IA1

Tgt Ion: 43 Resp: 14440

Ion Ratio Lower Upper

43 100

57 49.0 39.4 59.0



#11

Trichlorofluoromethane

Concen: 0.211 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042069.D

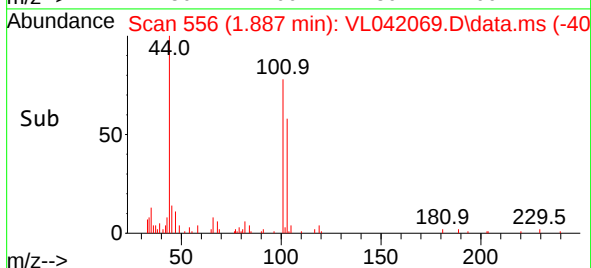
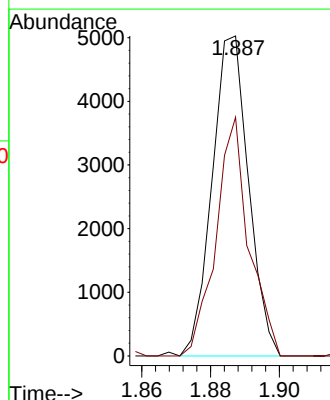
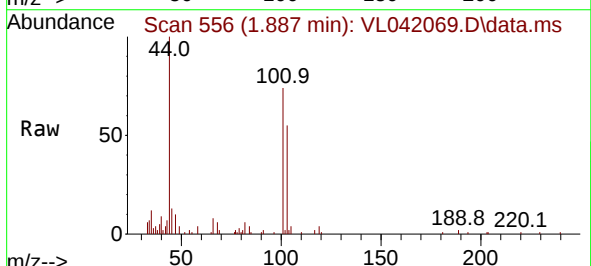
Acq: 27 Feb 2025 12:23

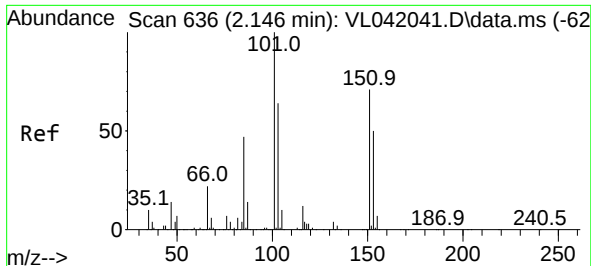
Tgt Ion:101 Resp: 3703

Ion Ratio Lower Upper

101 100

103 74.6 50.6 75.8

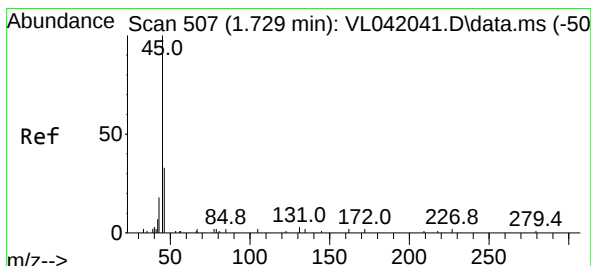
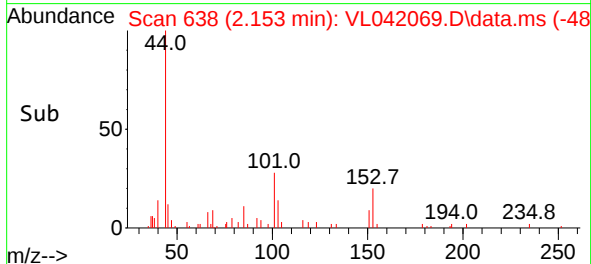
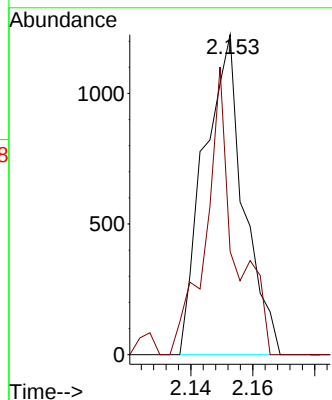
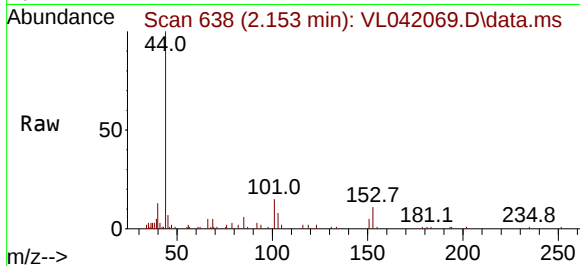




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv
 RT: 2.153 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL042069.D
 Acq: 27 Feb 2025 12:23

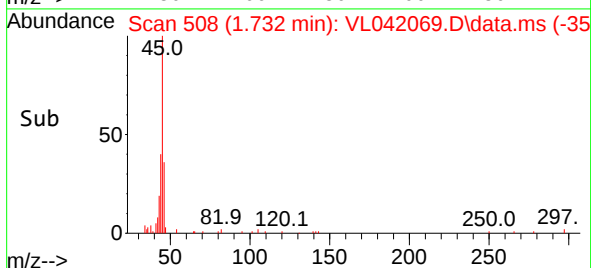
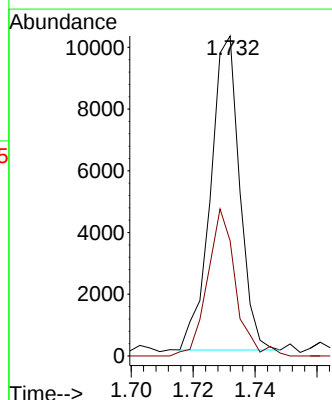
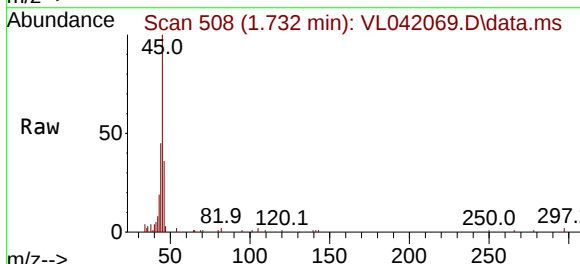
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

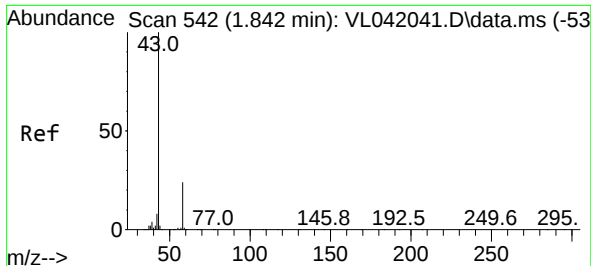
Tgt Ion:101 Resp: 1095
 Ion Ratio Lower Upper
 101 100
 151 67.6 62.6 94.0



#13
 Ethanol
 Concen: 10.475 ppbv
 RT: 1.732 min Scan# 508
 Delta R.T. 0.003 min
 Lab File: VL042069.D
 Acq: 27 Feb 2025 12:23

Tgt Ion: 45 Resp: 6638
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.1 68.3#

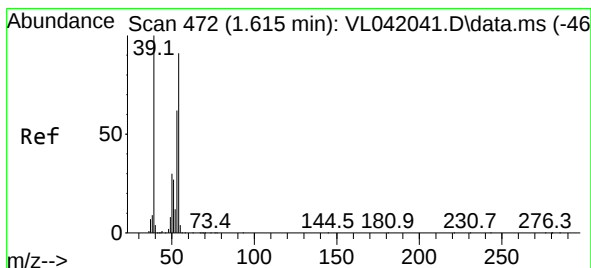
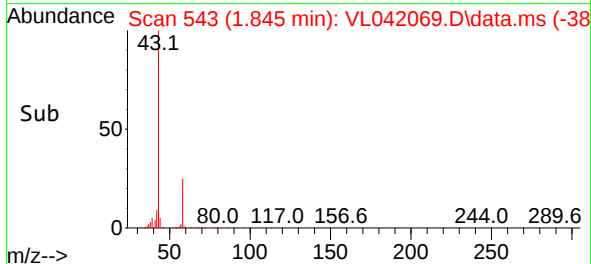
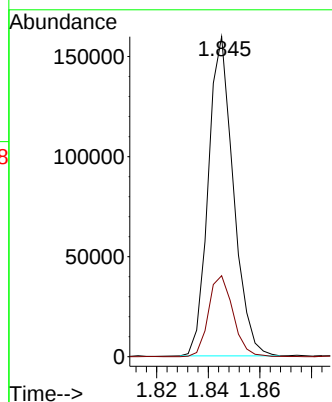
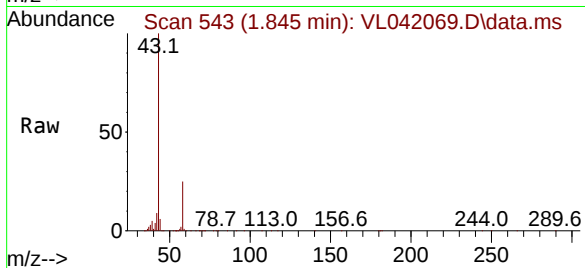




#15
Acetone
Concen: 7.247 ppbv
RT: 1.845 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

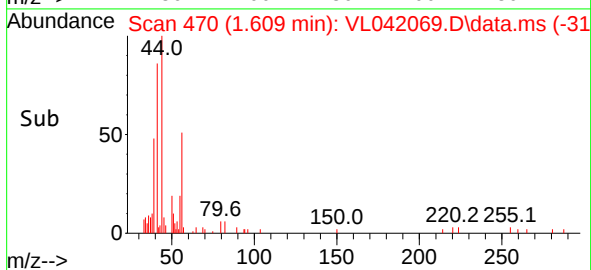
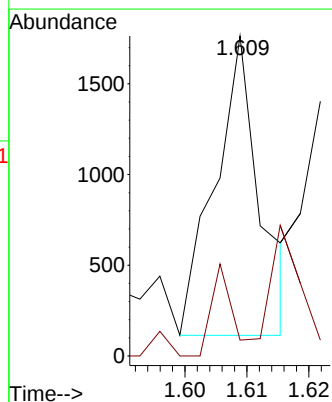
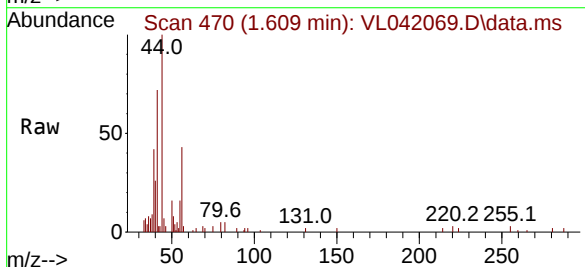
Instrument :
MSVOA_L
ClientSampleId :
IA1

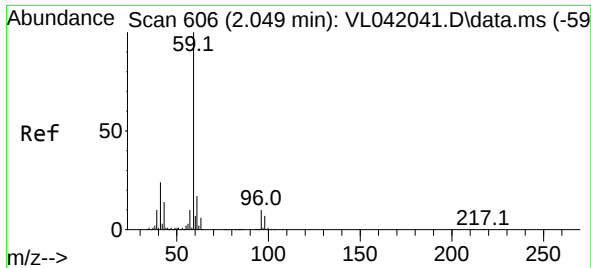
Tgt Ion: 43 Resp: 107906
Ion Ratio Lower Upper
43 100
58 24.8 20.7 31.1



#16
1,3-Butadiene
Concen: 0.120 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.007 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 39 Resp: 832
Ion Ratio Lower Upper
39 100
54 57.0 59.6 89.4#

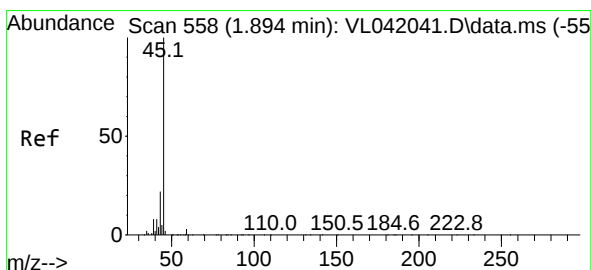
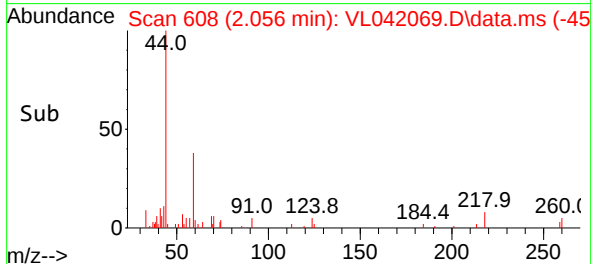
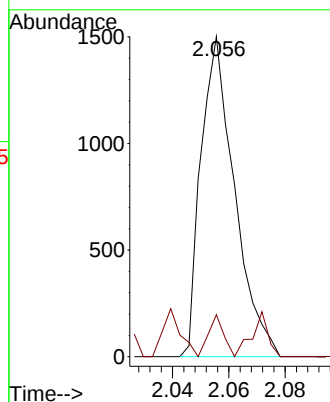
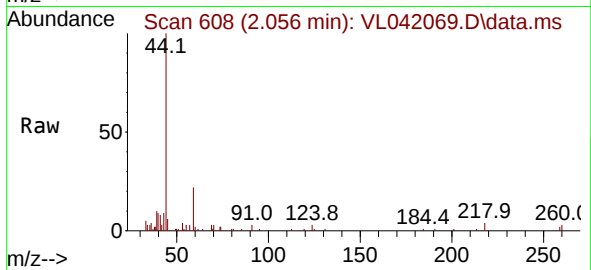




#17
tert-Butyl alcohol
Concen: 0.067 ppbv
RT: 2.056 min Scan# 606
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

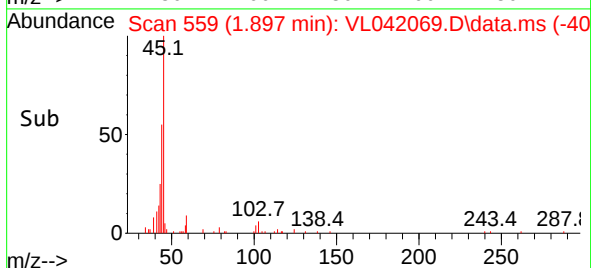
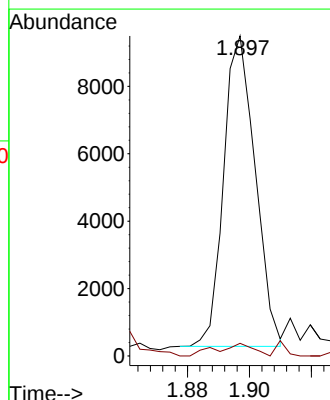
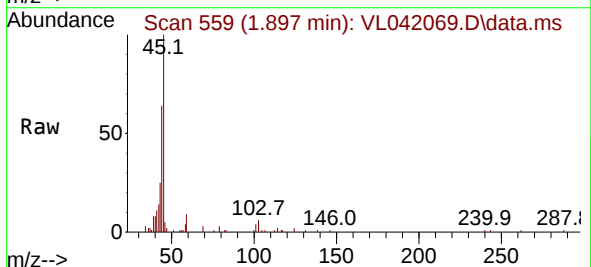
Instrument :
MSVOA_1
ClientSampleId :
IA1

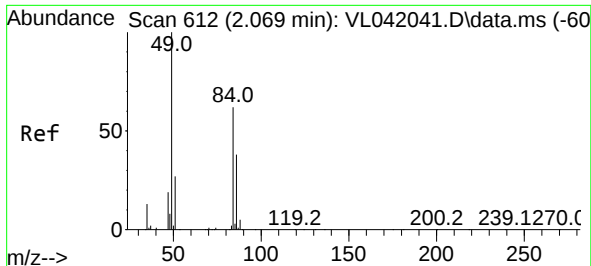
Tgt Ion: 59 Resp: 1246
Ion Ratio Lower Upper
59 100
57 25.0 9.3 13.9#



#19
Isopropyl Alcohol
Concen: 0.761 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 45 Resp: 6509
Ion Ratio Lower Upper
45 100
58 411.2 35.3 52.9#





#20

Methylene Chloride

Concen: 0.417 ppbv

RT: 2.075 min Scan# 612

Delta R.T. 0.006 min

Lab File: VL042069.D

Acq: 27 Feb 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 84 Resp: 2349

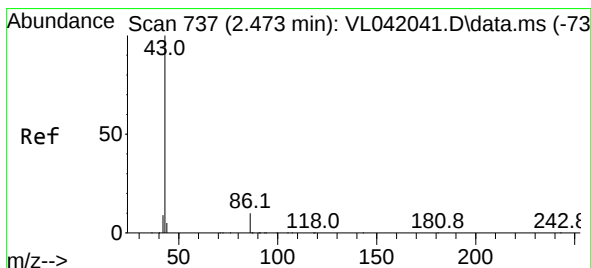
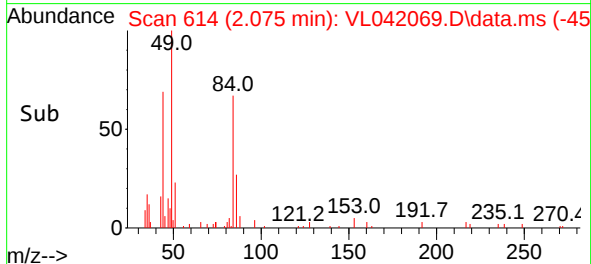
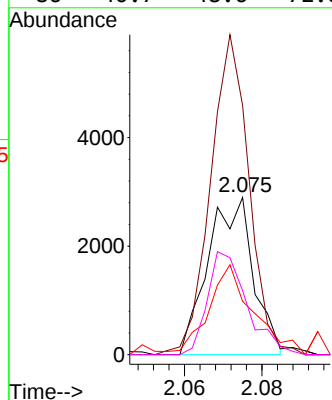
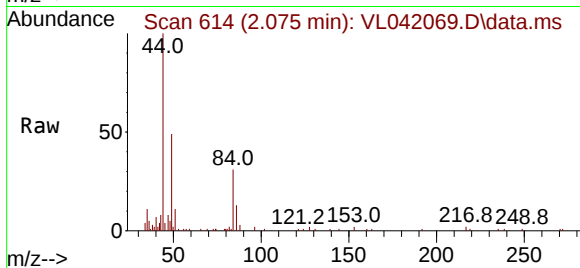
Ion Ratio Lower Upper

84 100

49 159.6 130.0 195.0

51 31.1 37.4 56.0#

86 40.7 48.6 72.8#



#23

Vinyl Acetate

Concen: 0.226 ppbv

RT: 2.470 min Scan# 736

Delta R.T. -0.003 min

Lab File: VL042069.D

Acq: 27 Feb 2025 12:23

Tgt Ion: 43 Resp: 2365

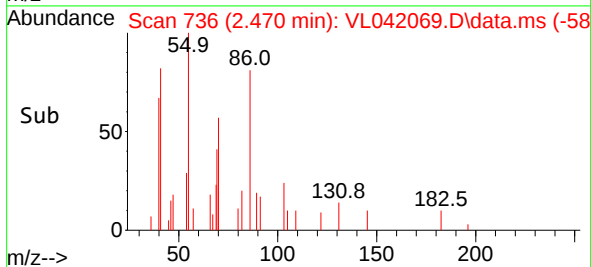
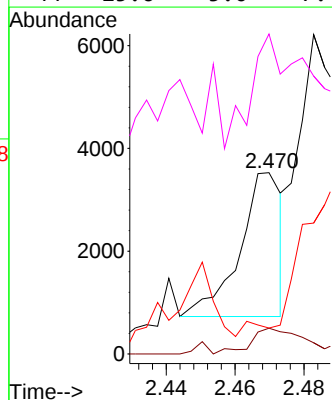
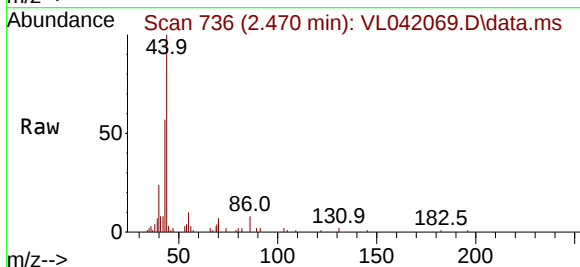
Ion Ratio Lower Upper

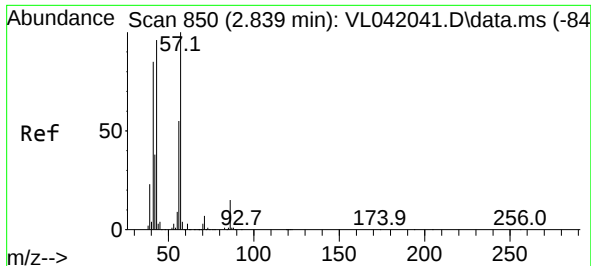
43 100

86 17.9 7.0 10.4#

42 0.0 7.6 11.4#

44 25.6 5.0 7.4#

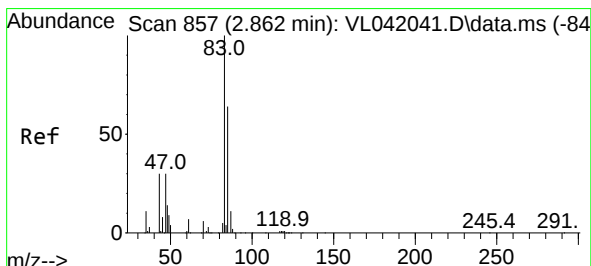
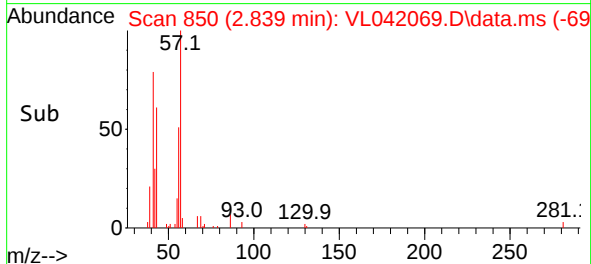
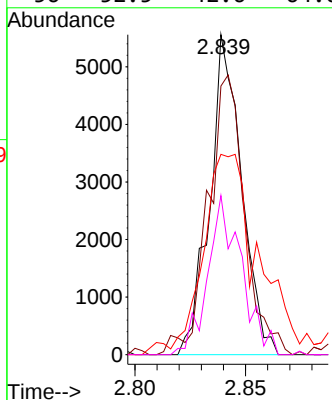
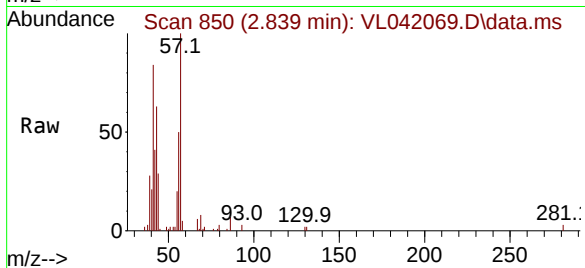




#26
Hexane
Concen: 0.231 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

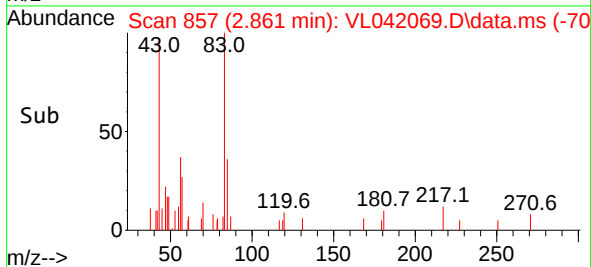
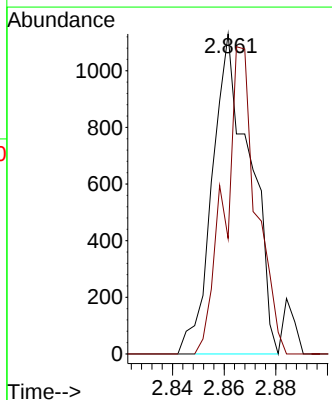
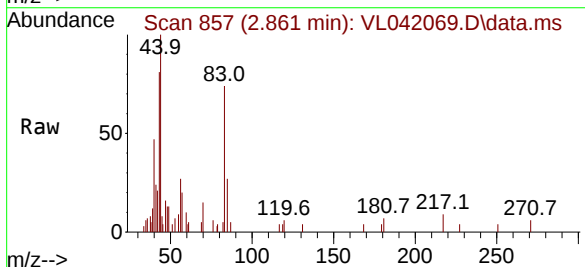
Instrument :
MSVOA_L
ClientSampleId :
IA1

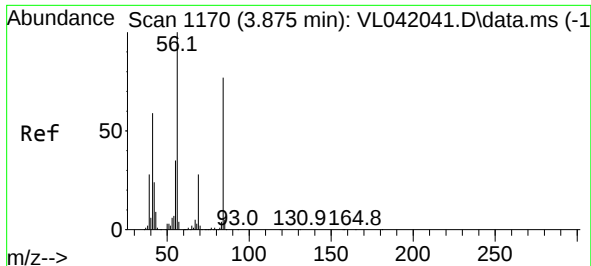
Tgt Ion: 57 Resp: 5577
Ion Ratio Lower Upper
57 100
41 100.3 70.6 106.0
43 111.6 199.4 299.0#
56 52.5 42.6 64.0



#29
Chloroform
Concen: 0.035 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 83 Resp: 1146
Ion Ratio Lower Upper
83 100
85 36.1 51.2 76.8#

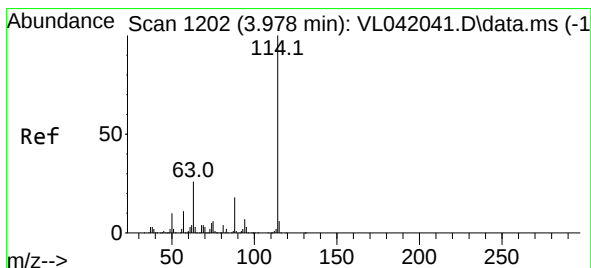
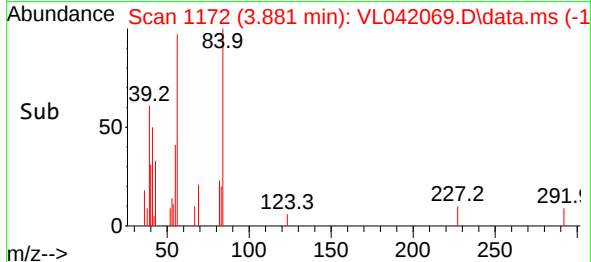
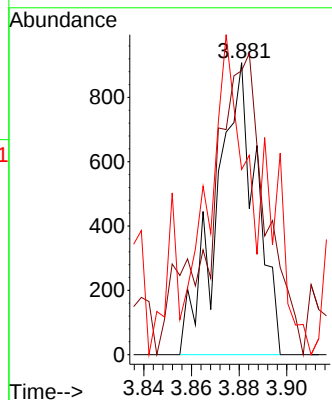
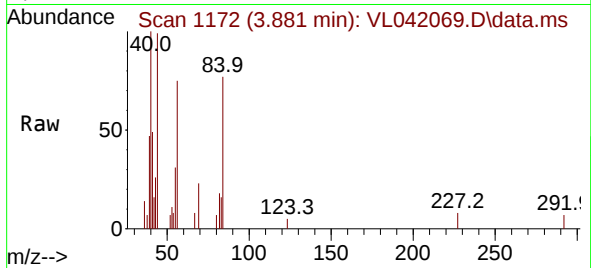




#30
Cyclohexane
Concen: 0.054 ppbv
RT: 3.881 min Scan# 1170
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

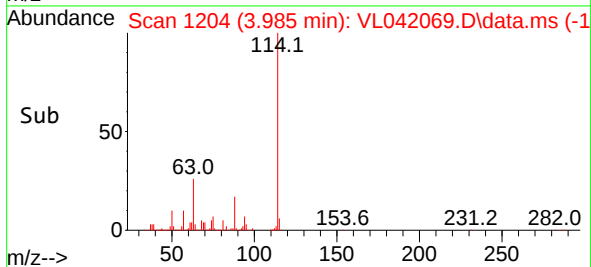
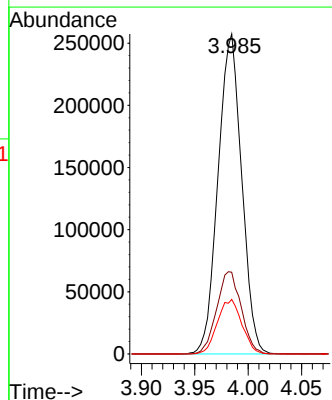
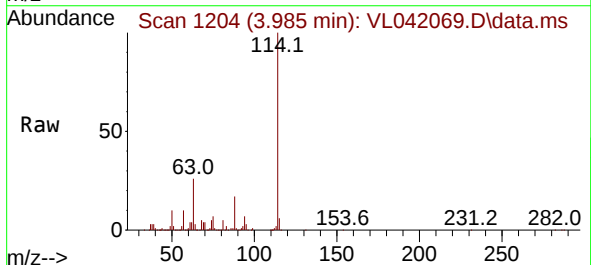
Instrument :
MSVOA_L
ClientSampleId :
IA1

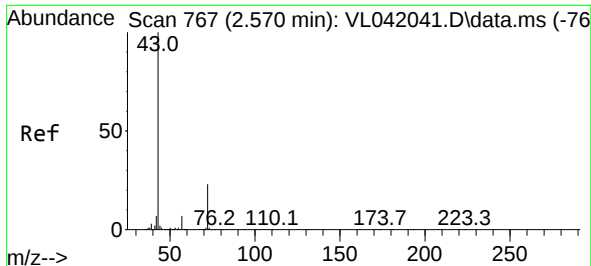
Tgt Ion: 84 Resp: 1054
Ion Ratio Lower Upper
84 100
56 150.9 101.5 152.3
41 137.7 62.6 93.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.985 min Scan# 1204
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 114 Resp: 395632
Ion Ratio Lower Upper
114 100
63 26.7 20.1 30.1
88 17.6 14.3 21.5

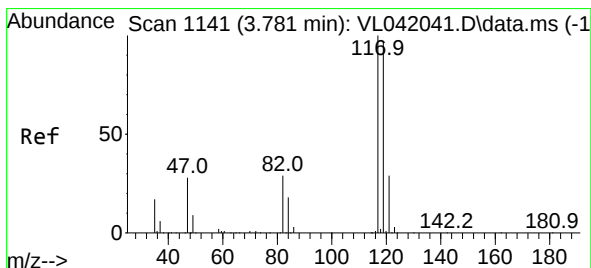
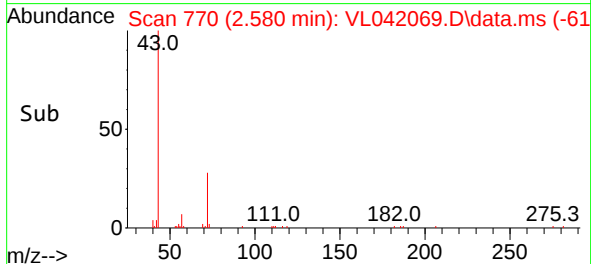
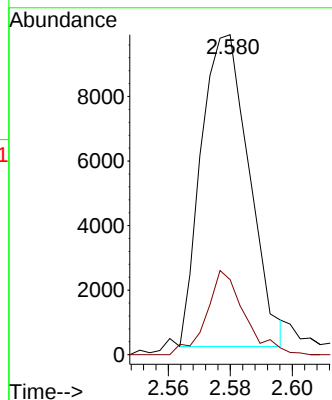
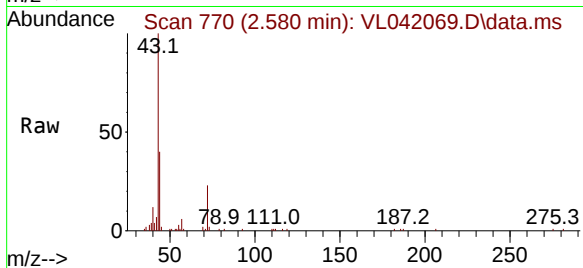




#34
2-Butanone
Concen: 0.337 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

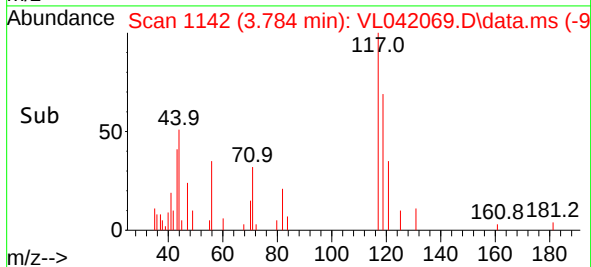
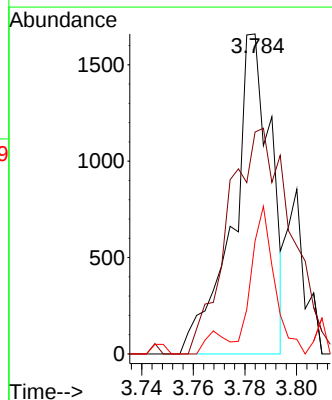
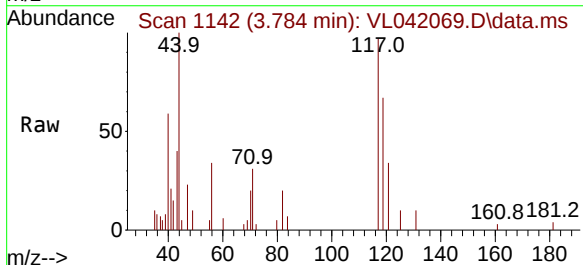
Instrument :
MSVOA_L
ClientSampleId :
IA1

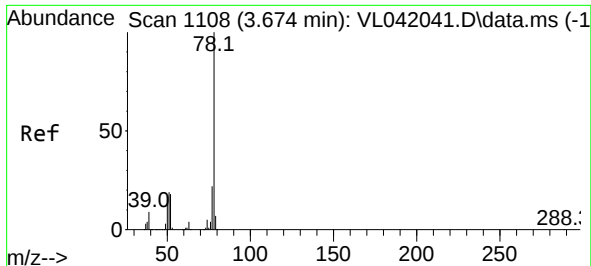
Tgt Ion: 43 Resp: 10374
Ion Ratio Lower Upper
43 100
72 21.3 18.5 27.7



#35
Carbon Tetrachloride
Concen: 0.062 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 117 Resp: 1704
Ion Ratio Lower Upper
117 100
119 69.3 77.8 116.8#
121 35.3 23.4 35.0#

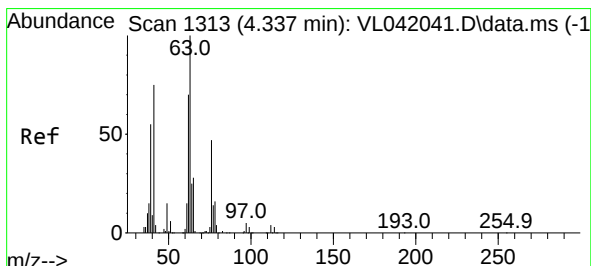
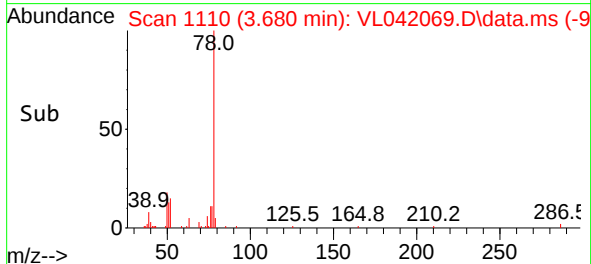
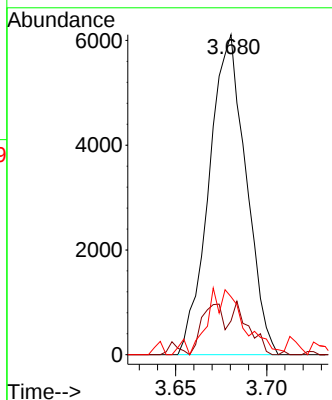
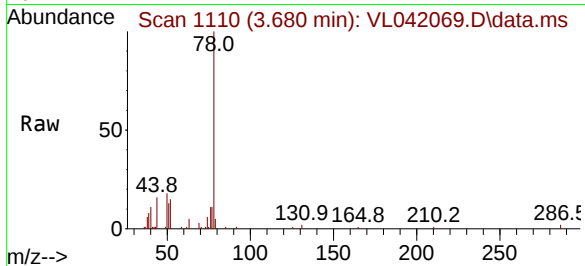




#36
Benzene
Concen: 0.208 ppbv
RT: 3.680 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

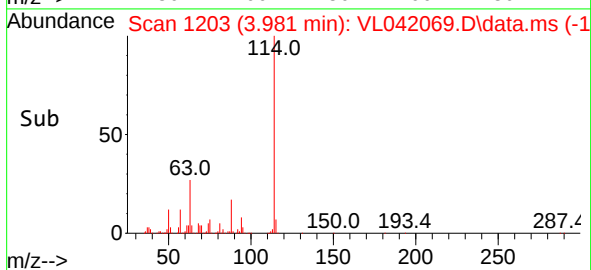
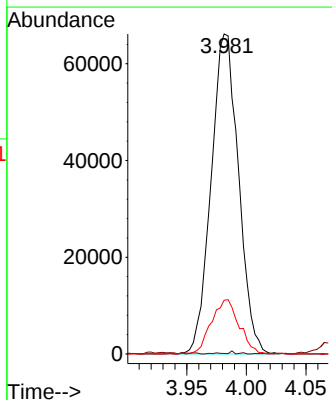
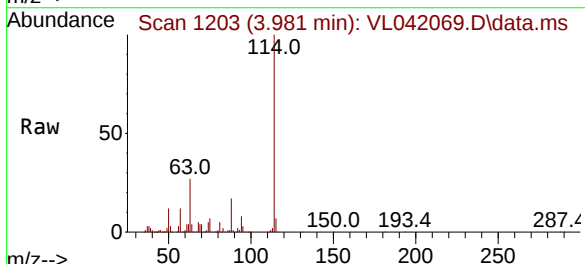
Instrument :
MSVOA_L
ClientSampleId :
IA1

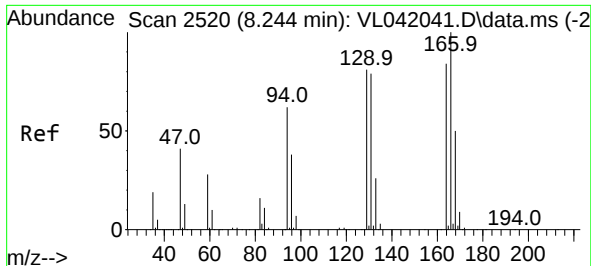
Tgt Ion: 78 Resp: 8619
Ion Ratio Lower Upper
78 100
77 10.6 17.7 26.5#
50 16.6 13.9 20.9



#39
1,2-Dichloropropane
Concen: 6.724 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. -0.356 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 63 Resp: 105709
Ion Ratio Lower Upper
63 100
41 0.1 60.1 90.1#
62 16.8 55.8 83.8#

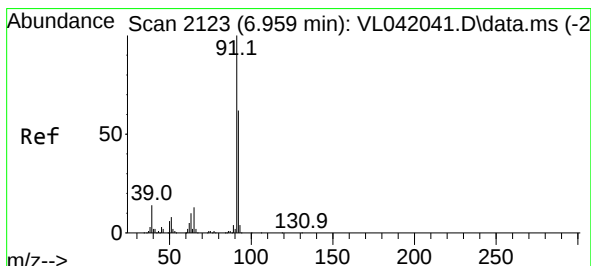
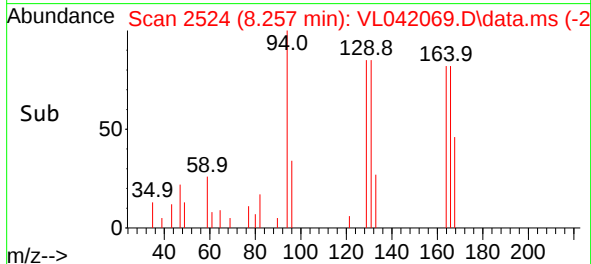
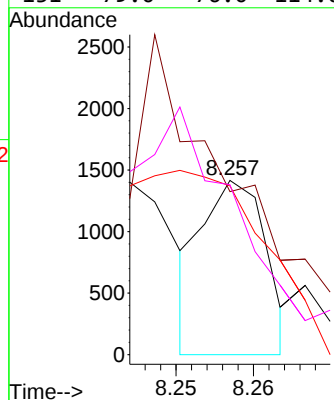
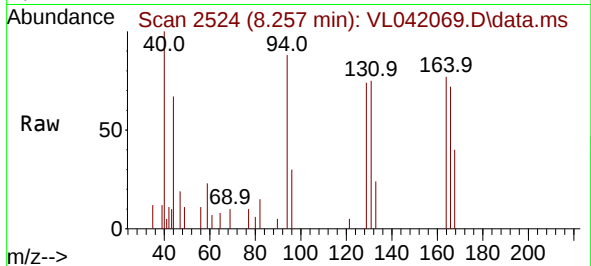




#52
Tetrachloroethene
Concen: 0.057 ppbv
RT: 8.257 min Scan# 2124
Delta R.T. 0.013 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

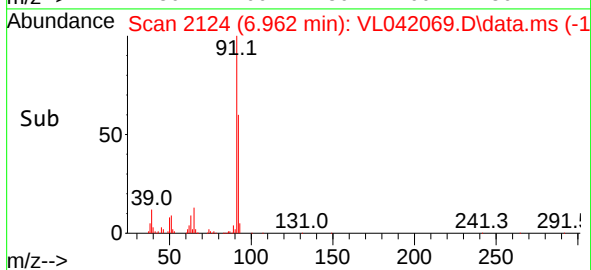
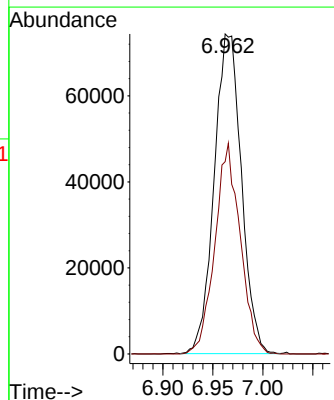
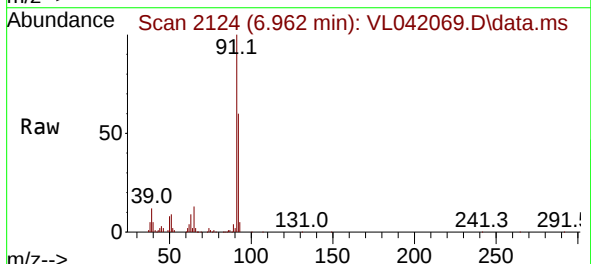
Instrument :
MSVOA_L
ClientSampleId :
IA1

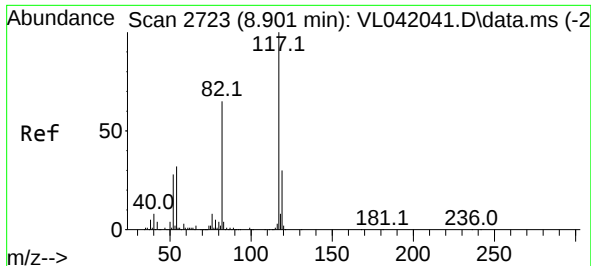
Tgt Ion:164 Resp: 804
Ion Ratio Lower Upper
164 100
166 54.1 95.7 143.5#
129 58.5 77.1 115.7#
131 79.0 76.0 114.0



#53
Toluene
Concen: 3.044 ppbv
RT: 6.962 min Scan# 2124
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion: 91 Resp: 140918
Ion Ratio Lower Upper
91 100
92 61.3 49.0 73.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042069.D

Acq: 27 Feb 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

IA1

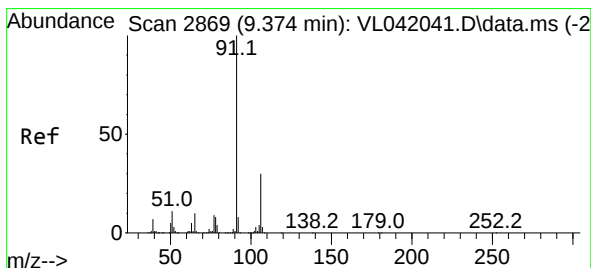
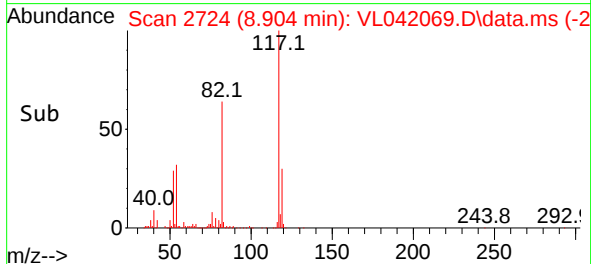
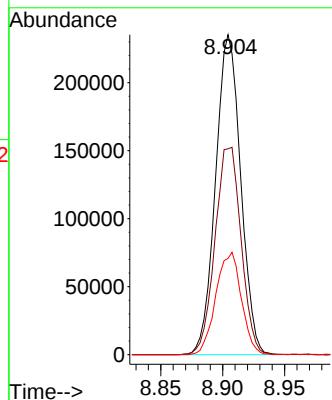
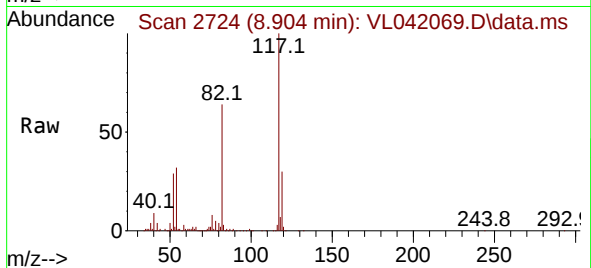
Tgt Ion:117 Resp: 332649

Ion Ratio Lower Upper

117 100

82 67.4 55.0 82.6

119 32.5 25.9 38.9



#58

Ethyl Benzene

Concen: 0.173 ppbv

RT: 9.374 min Scan# 2869

Delta R.T. -0.000 min

Lab File: VL042069.D

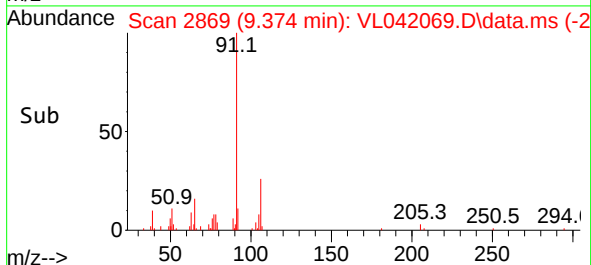
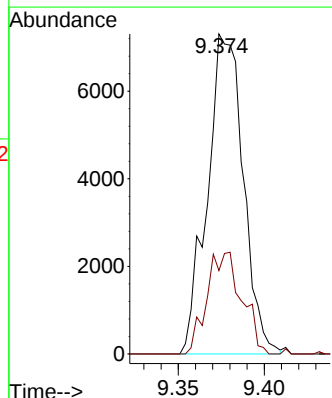
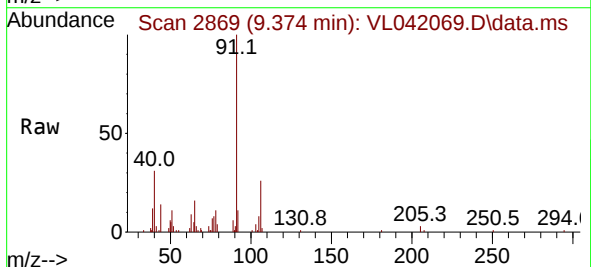
Acq: 27 Feb 2025 12:23

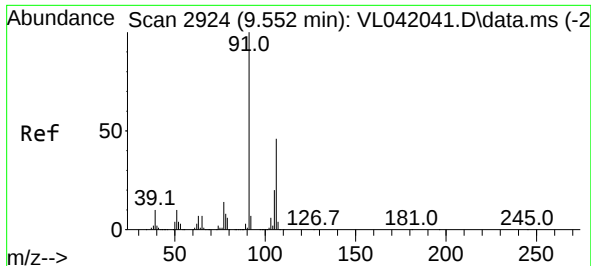
Tgt Ion: 91 Resp: 10600

Ion Ratio Lower Upper

91 100

106 26.0 24.2 36.2





#59

m/p-Xylene

Concen: 0.508 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042069.D

Acq: 27 Feb 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

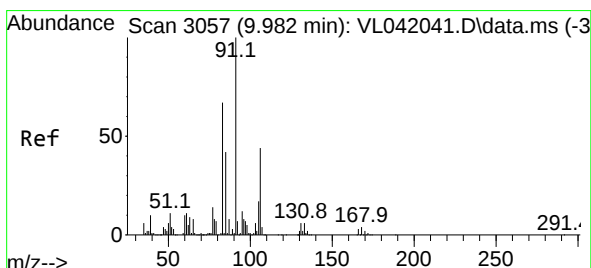
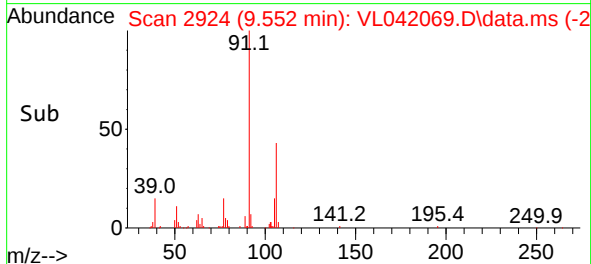
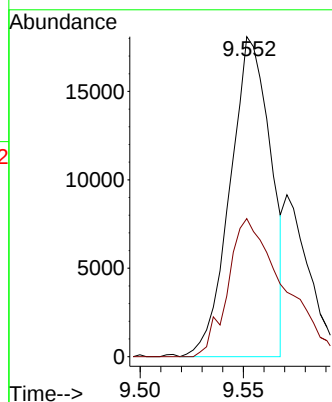
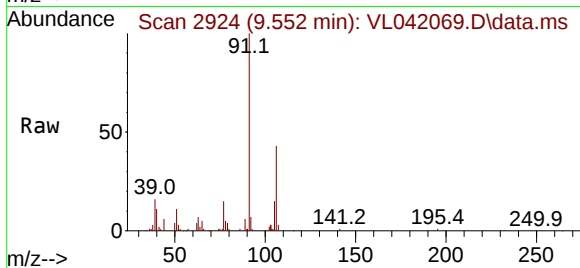
IA1

Tgt Ion: 91 Resp: 24753

Ion Ratio Lower Upper

91 100

106 59.2 0.0 0.0#



#60

o-Xylene

Concen: 0.286 ppbv

RT: 9.985 min Scan# 3058

Delta R.T. 0.003 min

Lab File: VL042069.D

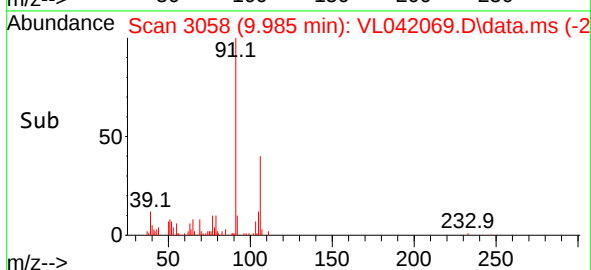
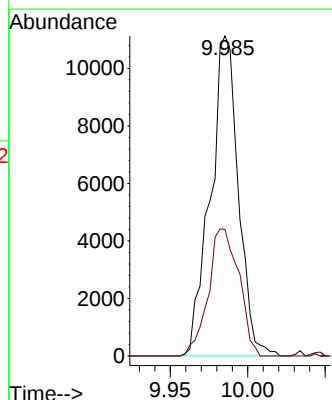
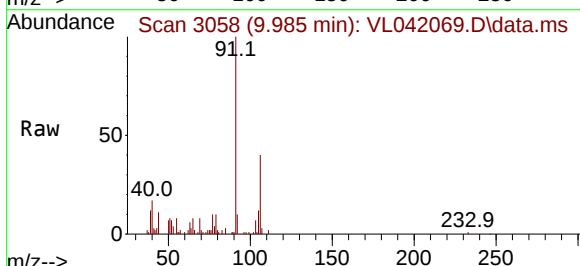
Acq: 27 Feb 2025 12:23

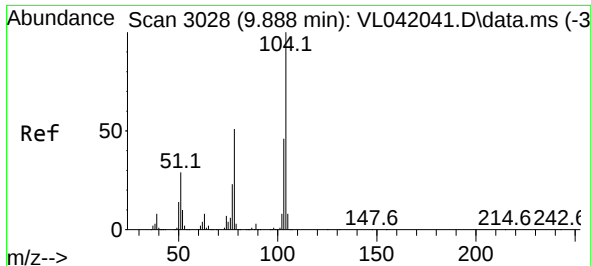
Tgt Ion: 91 Resp: 14039

Ion Ratio Lower Upper

91 100

106 43.2 22.3 66.8

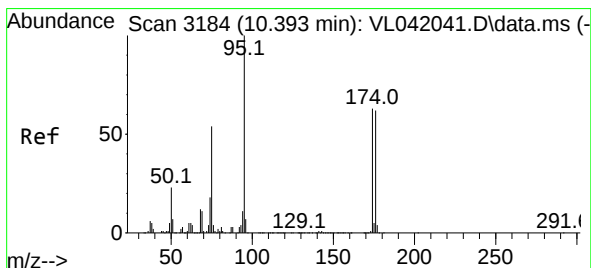
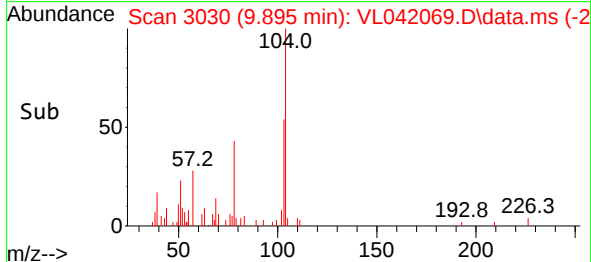
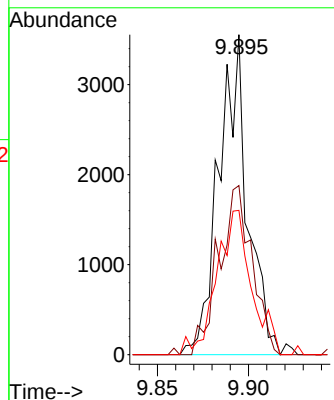
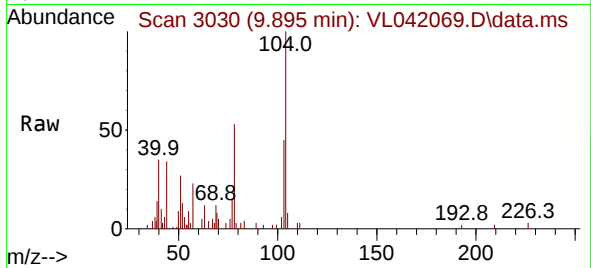




#61
 Styrene
 Concen: 0.169 ppbv
 RT: 9.895 min Scan# 3028
 Delta R.T. 0.006 min
 Lab File: VL042069.D
 Acq: 27 Feb 2025 12:23

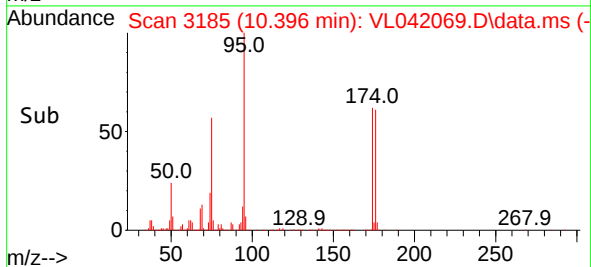
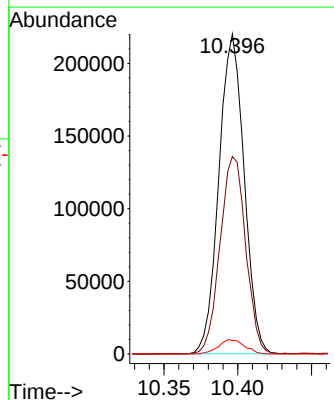
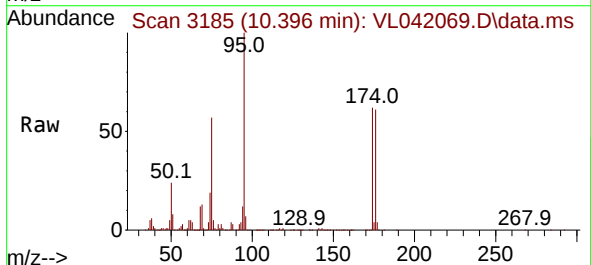
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

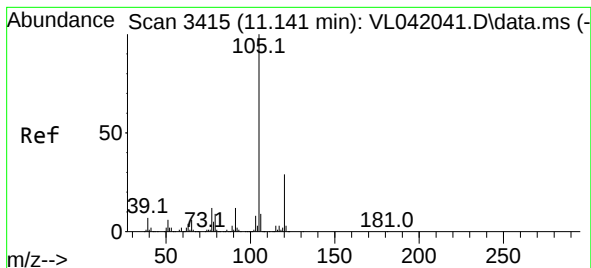
Tgt Ion:	104	Resp:	3892
Ion	Ratio	Lower	Upper
104	100		
78	61.3	41.0	61.4
103	55.1	37.0	55.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.247 ppbv
 RT: 10.396 min Scan# 3185
 Delta R.T. 0.003 min
 Lab File: VL042069.D
 Acq: 27 Feb 2025 12:23

Tgt Ion:	95	Resp:	262243
Ion	Ratio	Lower	Upper
95	100		
174	62.8	51.8	77.6
175	4.6	3.9	5.9

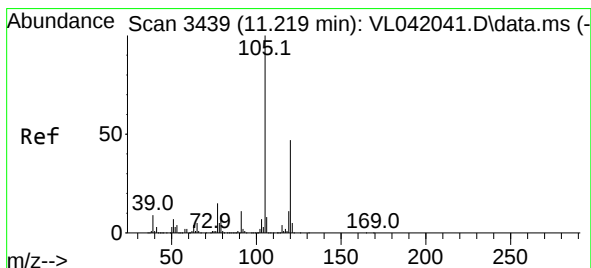
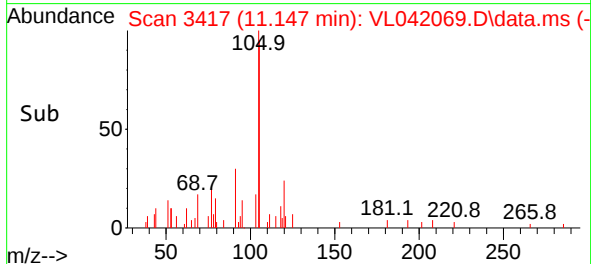
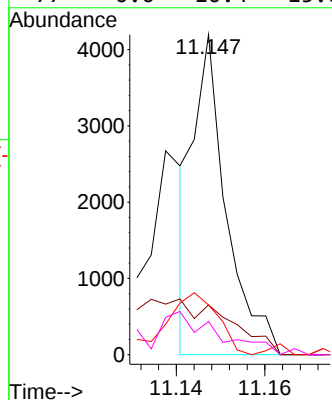
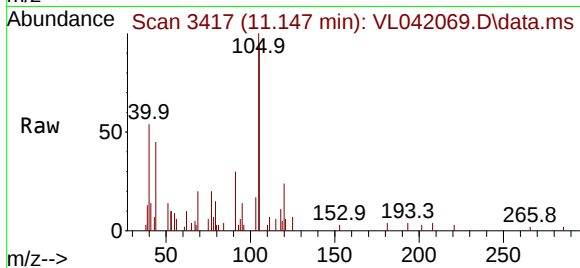




#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.147 min Scan# 3415
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

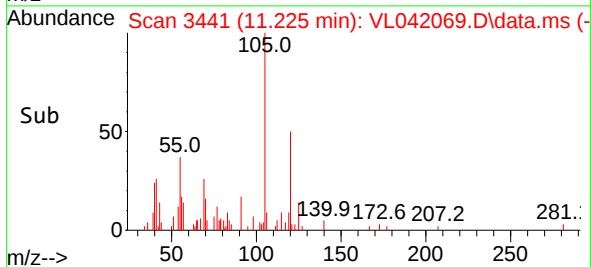
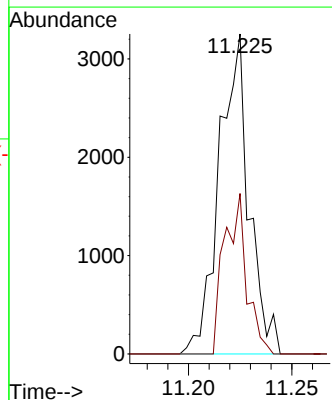
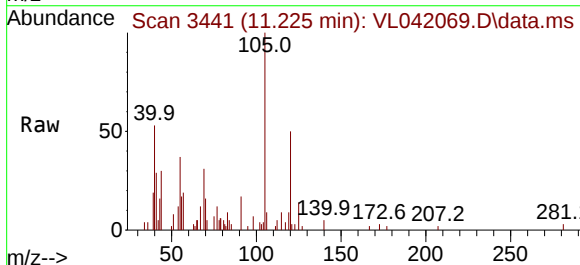
Instrument :
MSVOA_L
ClientSampleId :
IA1

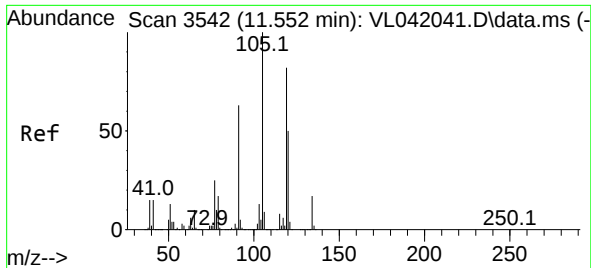
Tgt Ion:	105	Resp:	2166
Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.1	36.1#
91	31.2	10.2	15.4#
77	0.0	10.4	15.6#



#73
1,3,5-Trimethylbenzene
Concen: 0.063 ppbv
RT: 11.225 min Scan# 3441
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion:	105	Resp:	3265
Ion	Ratio	Lower	Upper
105	100		
120	53.2	37.4	56.0

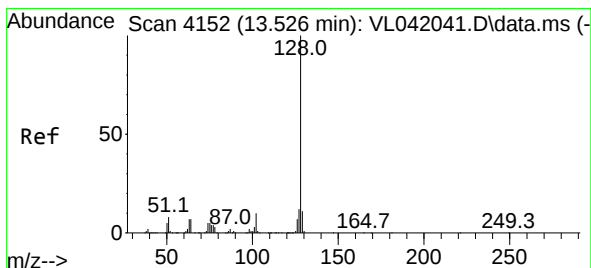
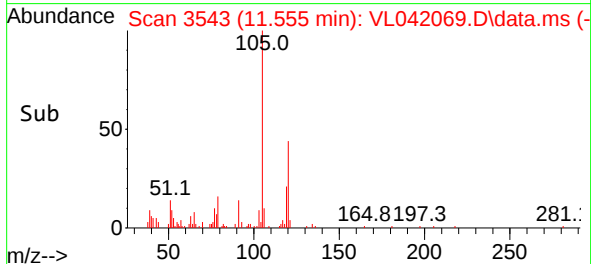
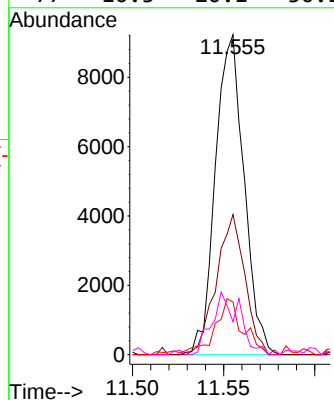
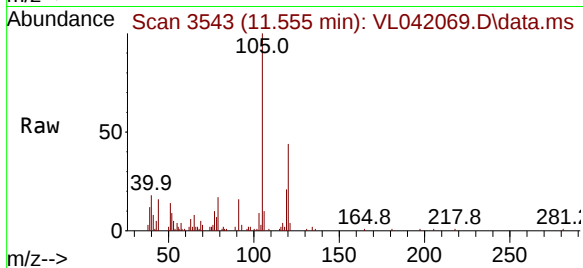




#74
1,2,4-Trimethylbenzene
Concen: 0.172 ppbv
RT: 11.555 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

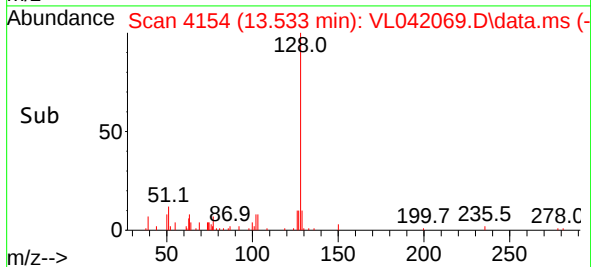
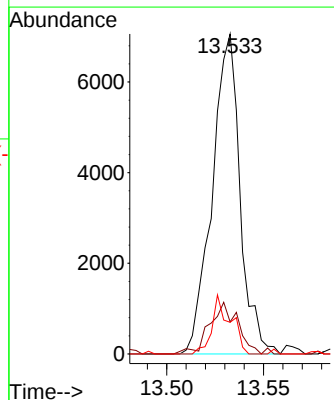
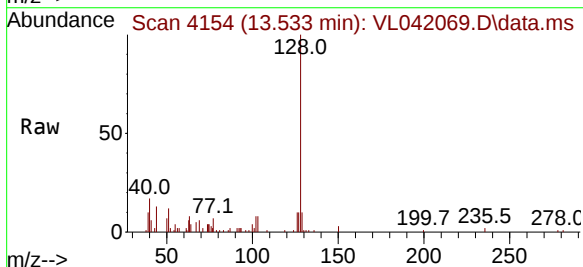
Instrument :
MSVOA_L
ClientSampleId :
IA1

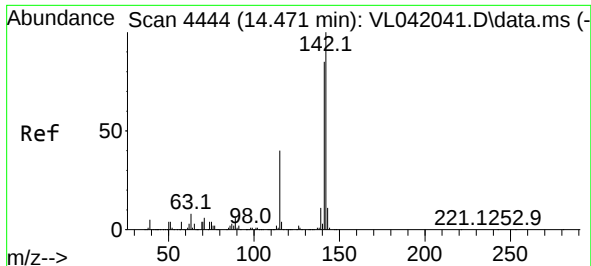
Tgt Ion:	105	Resp:	10077
Ion	Ratio	Lower	Upper
105	100		
120	43.8	40.2	60.2
91	16.4	51.4	77.2#
77	10.3	20.1	30.1#



#79
Naphthalene
Concen: 0.177 ppbv
RT: 13.533 min Scan# 4154
Delta R.T. 0.006 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion:	128	Resp:	7078
Ion	Ratio	Lower	Upper
128	100		
127	10.0	9.8	14.6
129	9.9	8.6	12.8

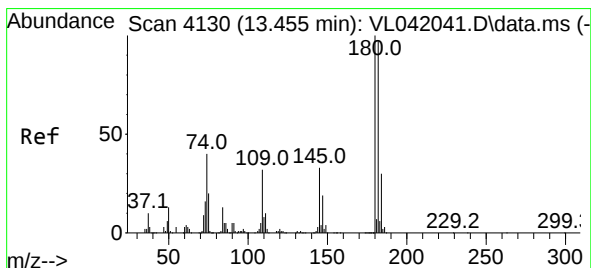
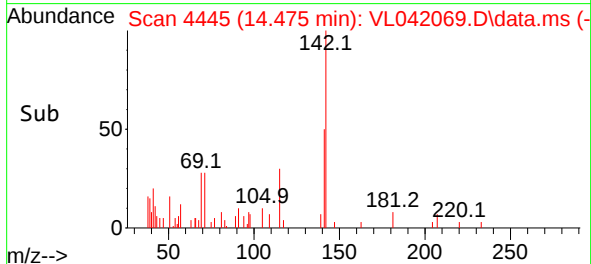
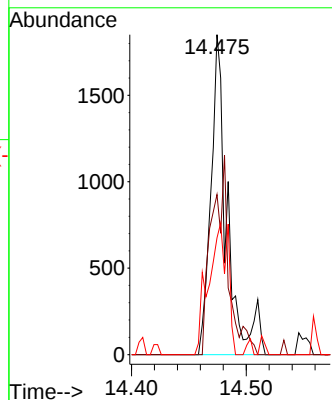
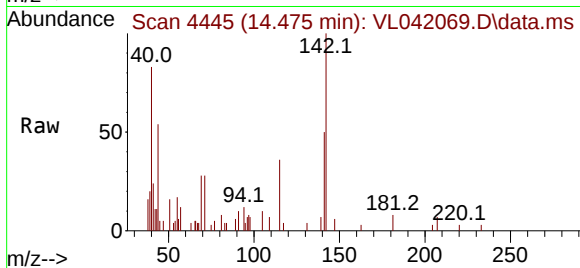




#80
Naphthalene, 2-methyl-
Concen: 0.165 ppbv
RT: 14.475 min Scan# 4444
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:142 Resp: 1810
Ion Ratio Lower Upper
142 100
141 66.7 65.8 98.6
115 53.1 29.5 44.3#



#81
1,2,4-Trichlorobenzene
Concen: 0.051 ppbv
RT: 13.458 min Scan# 4131
Delta R.T. 0.003 min
Lab File: VL042069.D
Acq: 27 Feb 2025 12:23

Tgt Ion:180 Resp: 1129
Ion Ratio Lower Upper
180 100
182 93.3 75.1 112.7
184 33.7 23.8 35.6

