

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072425\
 Data File : VL042769.D
 Acq On : 24 Jul 2025 17:29
 Operator : SY/MD
 Sample : Q2671-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 118-IA-2

Quant Time: Jul 25 01:29:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	152144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	410938	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	378371	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 304041 10.147 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.500%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8186	0.407	ppbv	95
3) Chlorodifluoromethane	1.466	51	2281173	87.053	ppbv #	58
4) Chloromethane	1.531	50	6378	0.784	ppbv	91
6) Bromomethane	1.674	94	177	0.057	ppbv #	55
7) Chloroethane	1.466	64	216133	69.570	ppbv	98
9) Propene	1.560	41	1629308	171.077	ppbv	86
10) Heptane	4.985	43	18223	0.710	ppbv	86
11) Trichlorofluoromethane	1.877	101	4820	0.232	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.140	101	1098	0.070	ppbv	90
13) Ethanol	1.725	45	2117174	3051.926	ppbv	90
15) Acetone	1.835	43	944712	44.968	ppbv	99
16) 1,3-Butadiene	1.622	39	677026	75.552	ppbv #	18
17) tert-Butyl alcohol	2.046	59	16321	0.861	ppbv #	72
19) Isopropyl Alcohol	1.887	45	458535	41.072	ppbv #	76
20) Methylene Chloride	2.062	84	3981	0.601	ppbv	93
21) Allyl Chloride	1.887	41	44013	3.399	ppbv #	76
23) Vinyl Acetate	2.457	43	26780	1.051	ppbv #	87
25) Ethyl Acetate	2.832	43	238601	5.131	ppbv #	95
26) Hexane	2.829	57	130342	6.389	ppbv #	82
27) Carbon Disulfide	2.156	76	1118	0.064	ppbv #	1
29) Chloroform	2.848	83	20783	0.659	ppbv	99
30) Cyclohexane	3.858	84	460	0.027	ppbv #	1
32) 1,1,1-Trichloroethane	3.370	97	8467	0.258	ppbv #	89
34) 2-Butanone	2.557	43	32227	1.107	ppbv	97
36) Benzene	3.661	78	4478	0.115	ppbv	96
37) 1,2-Dichloroethane	3.221	62	25795	1.099	ppbv	97
39) 1,2-Dichloropropane	3.959	63	106942	7.439	ppbv #	23
41) Tetrahydrofuran	3.065	42	3445	0.233	ppbv #	65
42) Bromodichloromethane	4.483	83	703	0.023	ppbv #	44
43) Methyl Methacrylate	4.875	69	785	0.057	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	2596	0.041	ppbv #	17
52) Tetrachloroethene	8.228	164	7237	0.448	ppbv	93
53) Toluene	6.936	91	66216	1.583	ppbv	99
58) Ethyl Benzene	9.354	91	12289	0.206	ppbv	94
59) m/p-Xylene	9.552	91	5853	0.123	ppbv #	30
60) o-Xylene	9.966	91	10717	0.225	ppbv	97
61) Styrene	9.869	104	11559	0.576	ppbv	93
65) tert-Butylbenzene	11.536	119	1834	0.029	ppbv #	1
66) Benzyl Chloride	11.552	91	735	0.143	ppbv #	69
69) p-Isopropyltoluene	11.927	119	6833	0.094	ppbv #	75
72) 4-Ethyltoluene	11.124	105	2875	0.050	ppbv #	84
73) 1,3,5-Trimethylbenzene	11.202	105	3411	0.073	ppbv #	82
74) 1,2,4-Trimethylbenzene	11.539	105	11842	0.231	ppbv #	69

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
118-IA-2

Quant Time: Jul 25 01:29:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,3-Dichlorobenzene	11.668	146	1171	0.033	ppbv	87
76) 1,4-Dichlorobenzene	11.668	146	1171	0.033	ppbv	86
77) 1,2-Dichlorobenzene	11.668	146	1171	0.033	ppbv	87
79) Naphthalene	13.516	128	5307	0.526	ppbv #	83
80) Naphthalene,2-methyl-	14.455	142	517	1.145	ppbv #	84
81) 1,2,4-Trichlorobenzene	13.445	180	250	0.443	ppbv #	77

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

MSVOA L

ClientSampleId :

118-IA-2

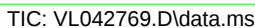
Quant Time: Jul 25 01:29:46 2025

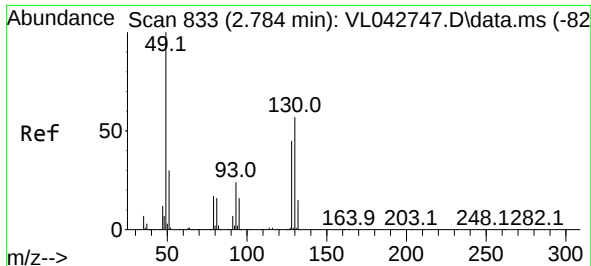
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

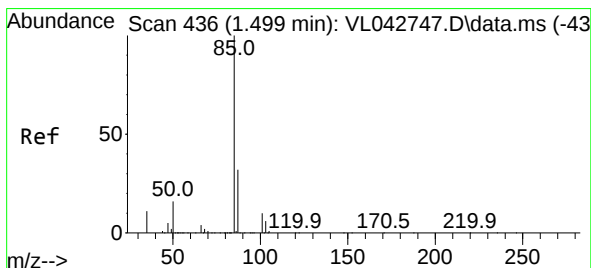
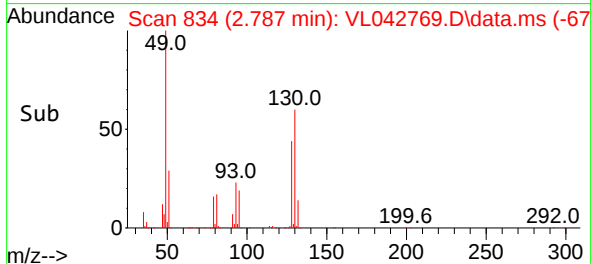
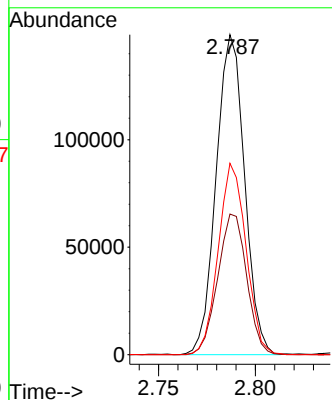
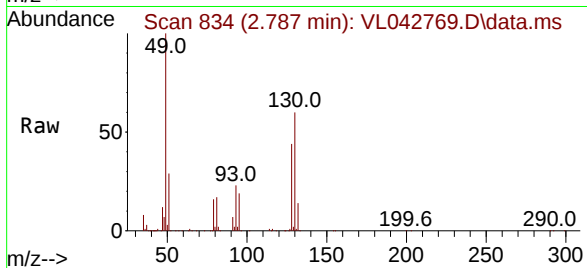




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

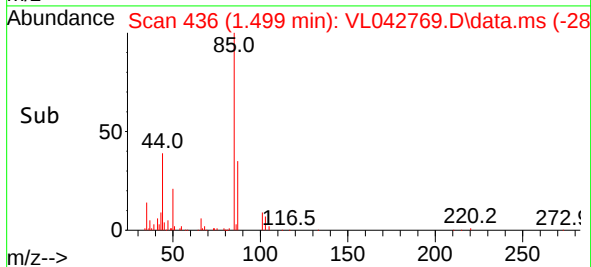
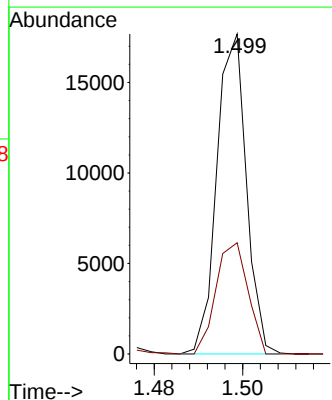
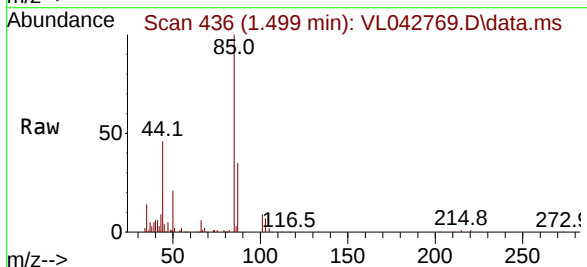
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

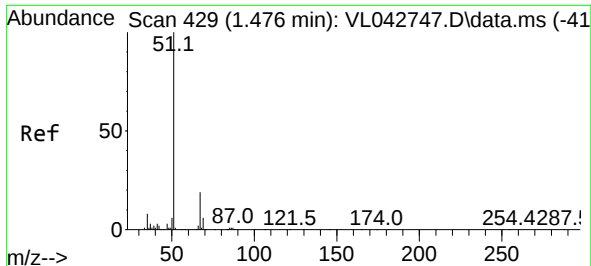
Tgt Ion: 49 Resp: 152144
Ion Ratio Lower Upper
49 100
128 44.7 23.6 71.0
130 58.3 30.3 90.8



#2
Dichlorodifluoromethane
Concen: 0.407 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 85 Resp: 8186
Ion Ratio Lower Upper
85 100
87 34.8 25.4 38.2

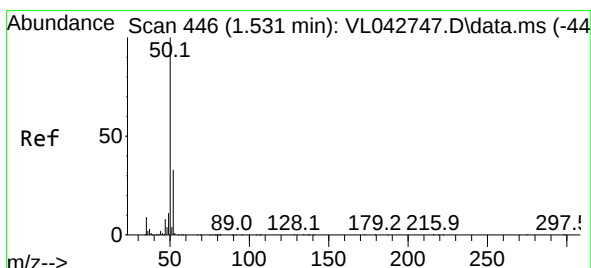
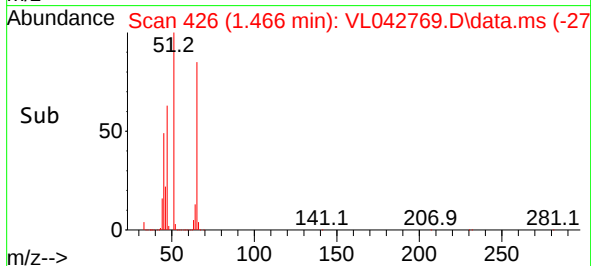
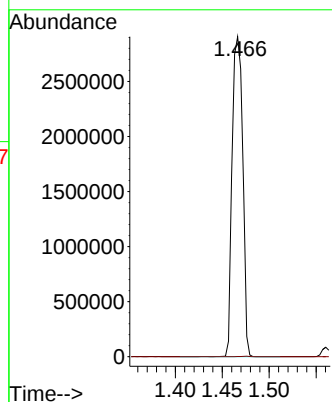
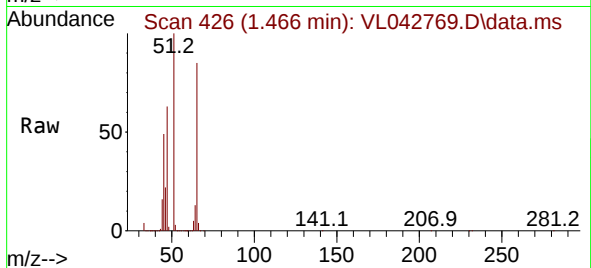




#3
Chlorodifluoromethane
Concen: 87.053 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

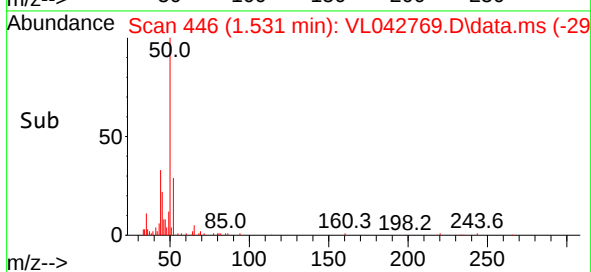
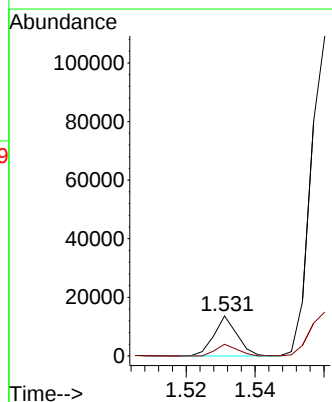
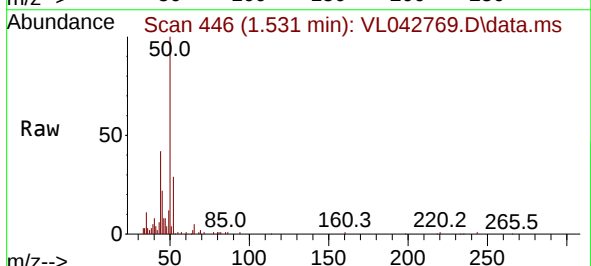
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

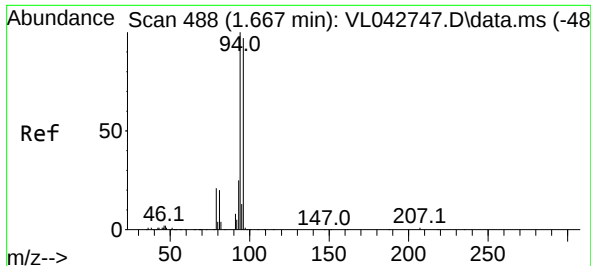
Tgt Ion: 51 Resp: 2281173
Ion Ratio Lower Upper
51 100
67 0.1 15.0 22.6#



#4
Chloromethane
Concen: 0.784 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 50 Resp: 6378
Ion Ratio Lower Upper
50 100
52 28.1 26.6 40.0

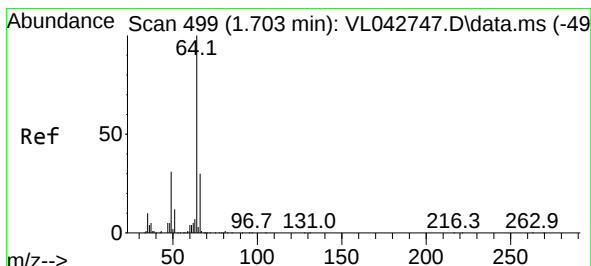
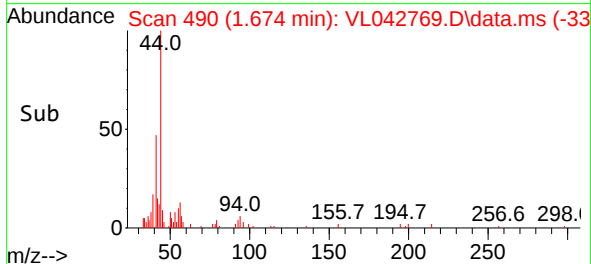
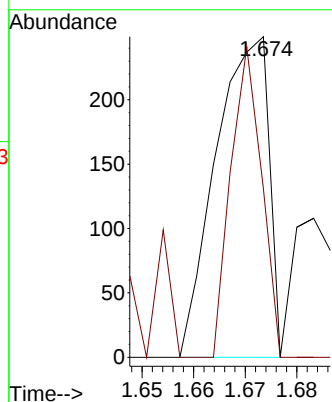
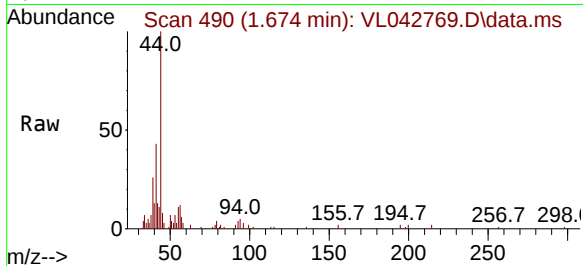




#6
Bromomethane
Concen: 0.057 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.006 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

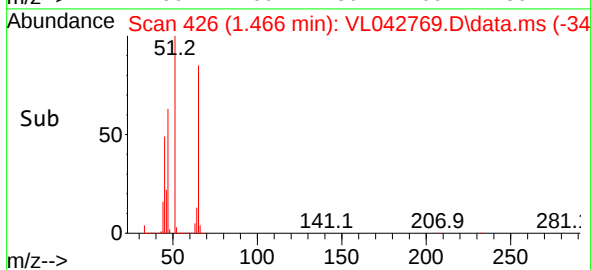
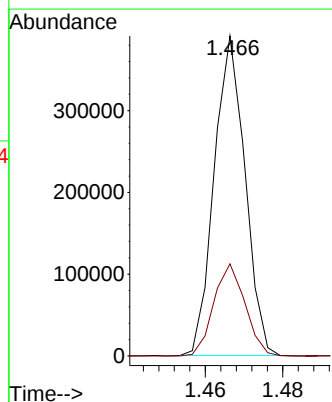
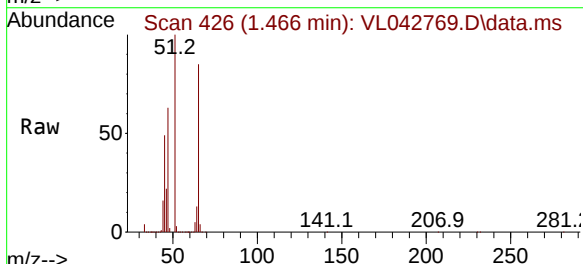
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

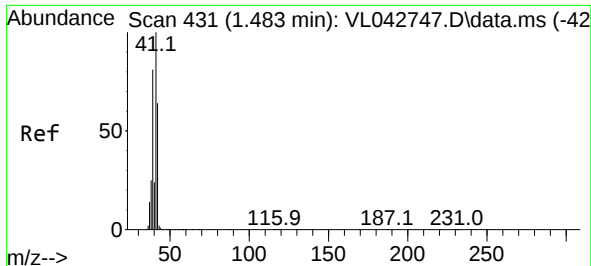
Tgt Ion: 94 Resp: 177
Ion Ratio Lower Upper
94 100
96 52.6 77.6 116.4#



#7
Chloroethane
Concen: 69.570 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 64 Resp: 216133
Ion Ratio Lower Upper
64 100
66 28.8 24.1 36.1

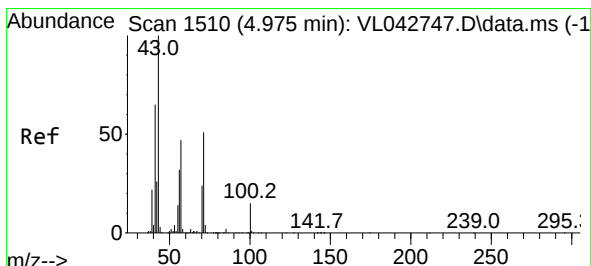
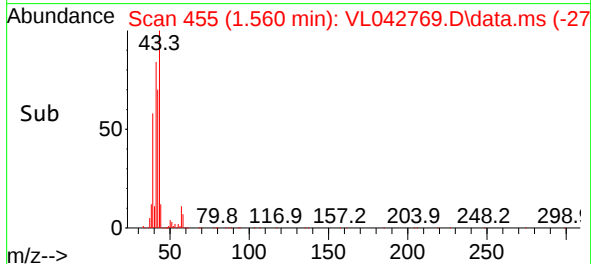
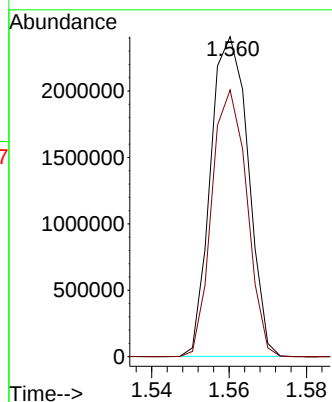
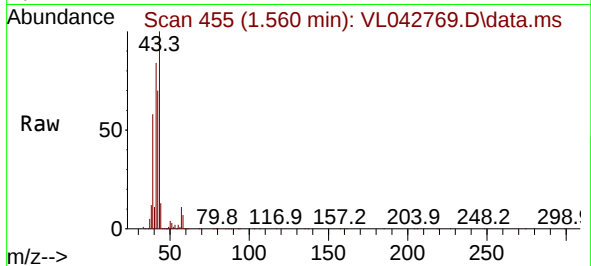




#9
Propene
Concen: 171.077 ppbv
RT: 1.560 min Scan# 41
Delta R.T. 0.078 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

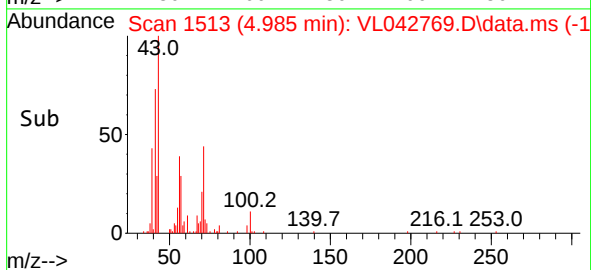
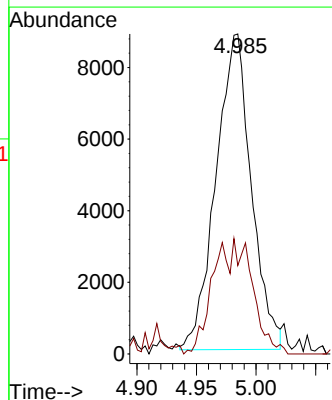
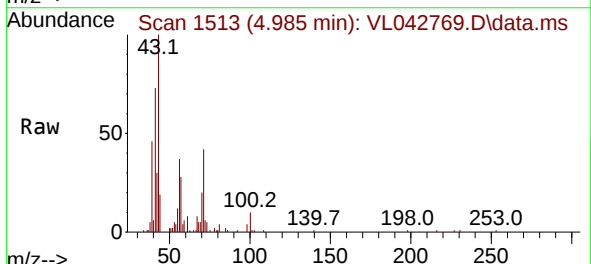
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

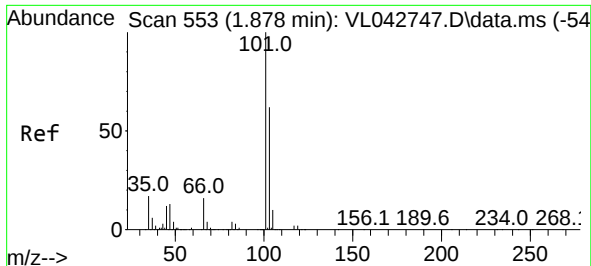
Tgt Ion: 41 Resp: 1629308
Ion Ratio Lower Upper
41 100
42 77.7 53.2 79.8



#10
Heptane
Concen: 0.710 ppbv
RT: 4.985 min Scan# 1513
Delta R.T. 0.010 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 43 Resp: 18223
Ion Ratio Lower Upper
43 100
57 40.3 39.9 59.9

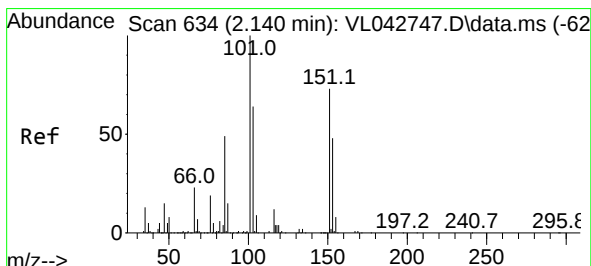
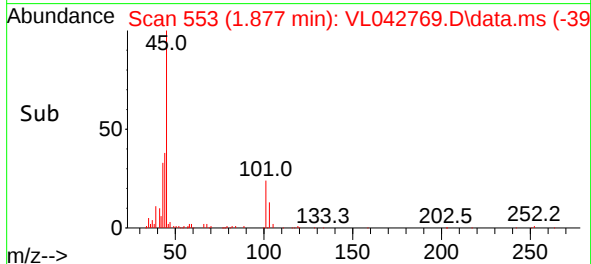
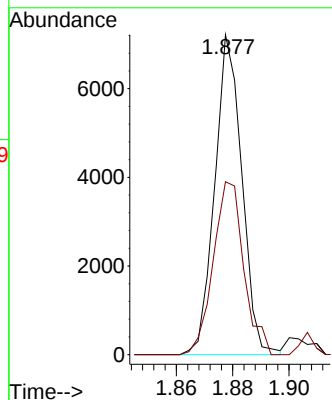
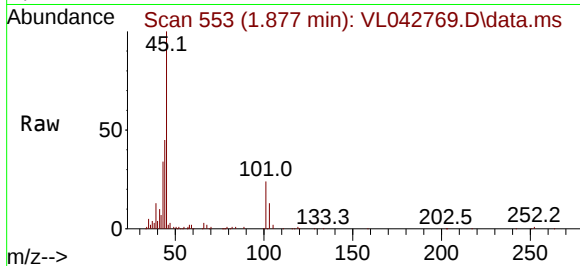




#11
 Trichlorofluoromethane
 Concen: 0.232 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042769.D
 Acq: 24 Jul 2025 17:29

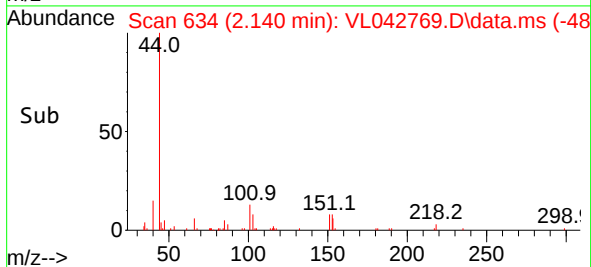
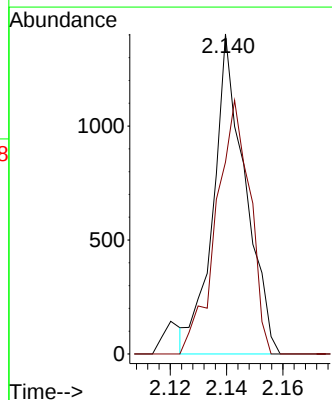
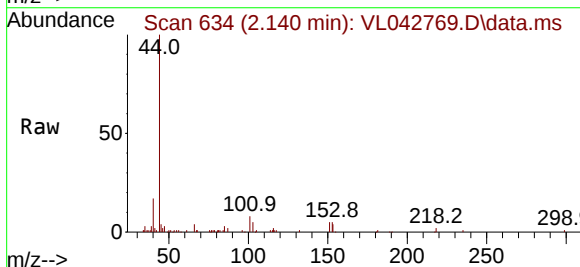
Instrument :
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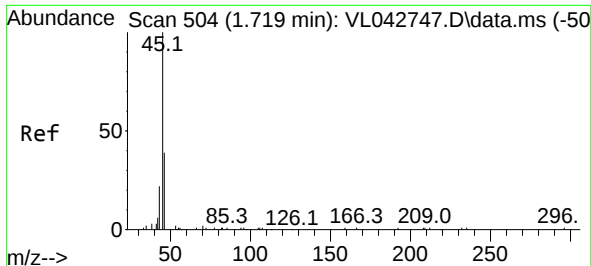
Tgt Ion:101 Resp: 4820
 Ion Ratio Lower Upper
 101 100
 103 54.0 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.070 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. -0.000 min
 Lab File: VL042769.D
 Acq: 24 Jul 2025 17:29

Tgt Ion:101 Resp: 1098
 Ion Ratio Lower Upper
 101 100
 151 84.5 60.5 90.7

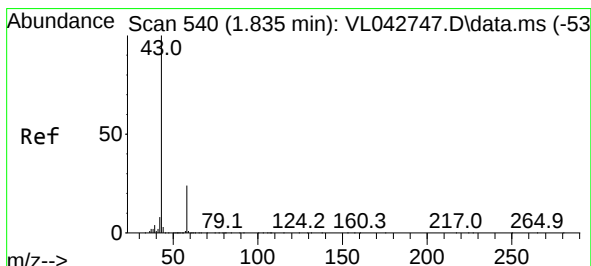
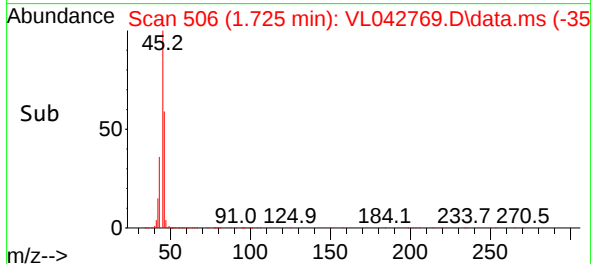
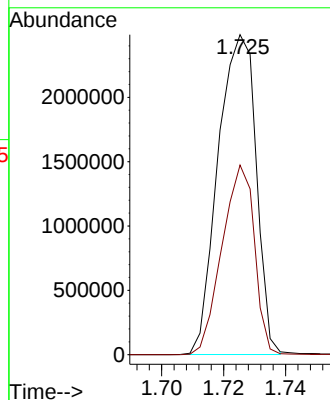
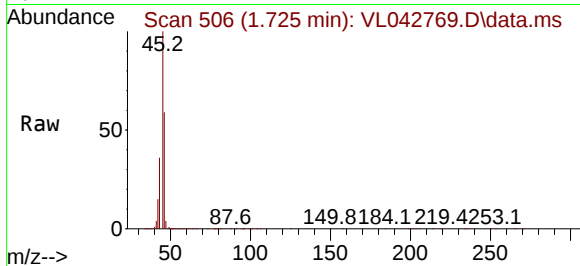




#13
Ethanol
Concen: 3051.926 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

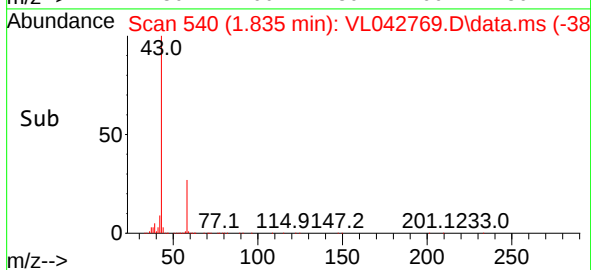
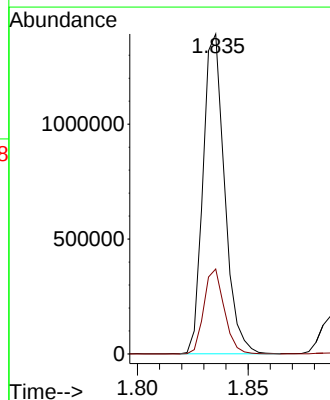
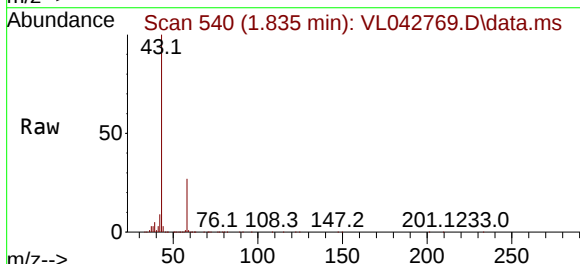
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

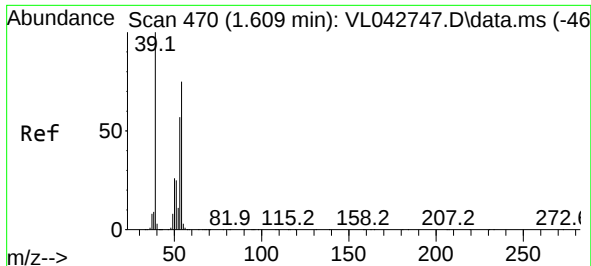
Tgt Ion: 45 Resp: 2117174
Ion Ratio Lower Upper
45 100
46 50.8 17.8 71.4



#15
Acetone
Concen: 44.968 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 43 Resp: 944712
Ion Ratio Lower Upper
43 100
58 25.1 19.8 29.8

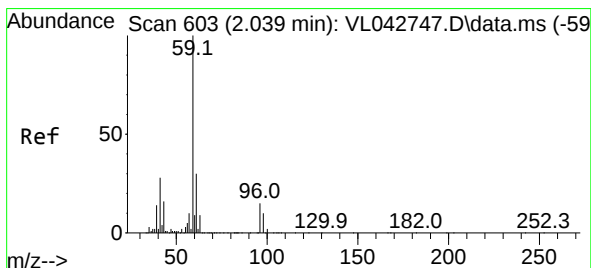
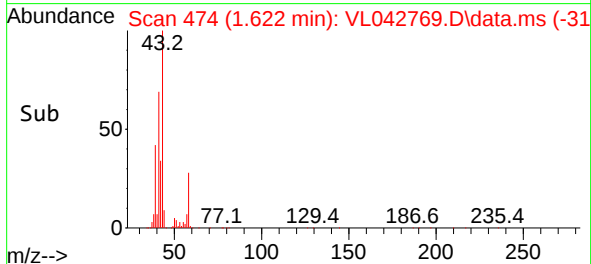
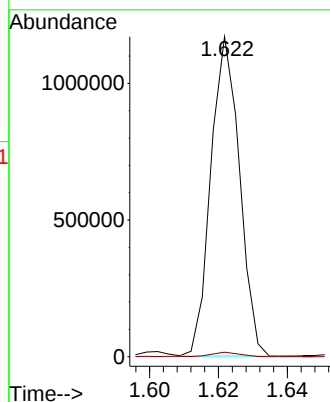
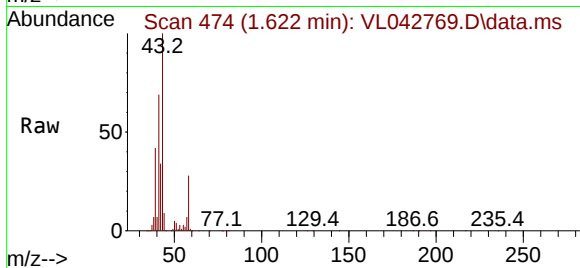




#16
1,3-Butadiene
Concen: 75.552 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

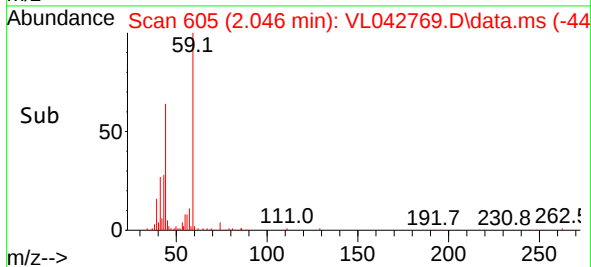
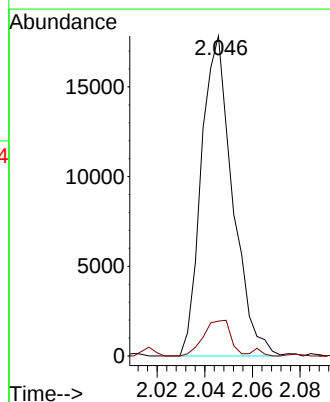
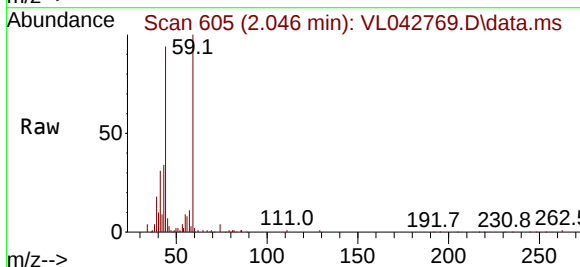
Instrument :
MSVOA_L
ClientSampleId :
118-IA-2

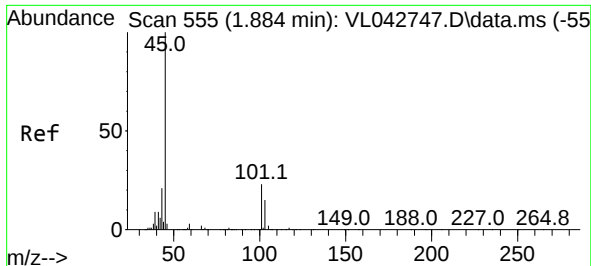
Tgt Ion: 39 Resp: 677026
Ion Ratio Lower Upper
39 100
54 1.5 54.5 81.7#



#17
tert-Butyl alcohol
Concen: 0.861 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 59 Resp: 16321
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 41.072 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

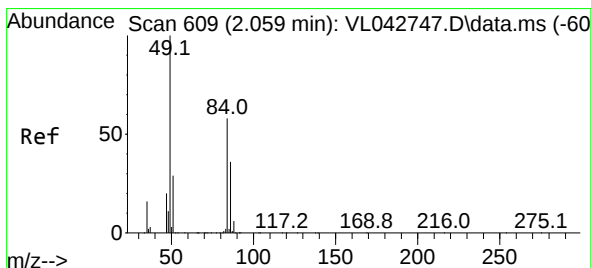
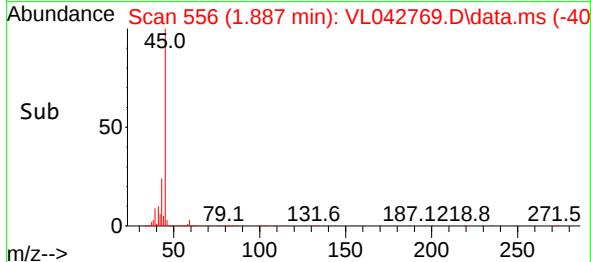
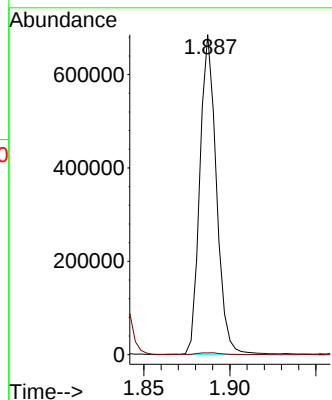
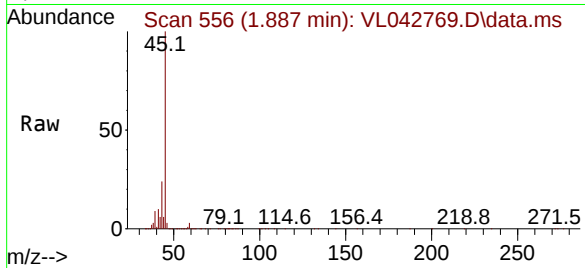
118-IA-2

Tgt Ion: 45 Resp: 458535

Ion Ratio Lower Upper

45 100

58 51.8 30.0 45.0#



#20

Methylene Chloride

Concen: 0.601 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Tgt Ion: 84 Resp: 3981

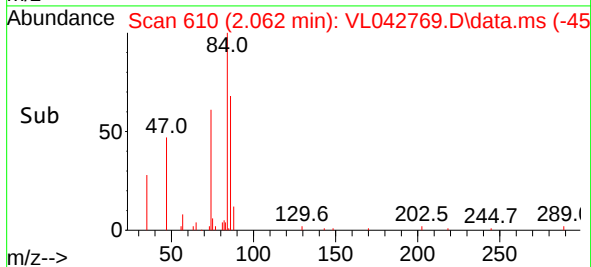
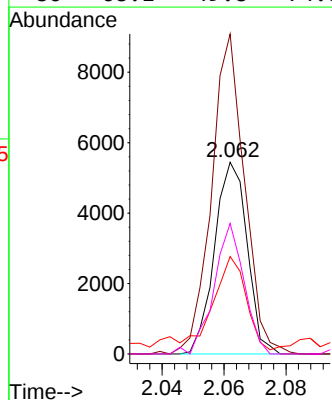
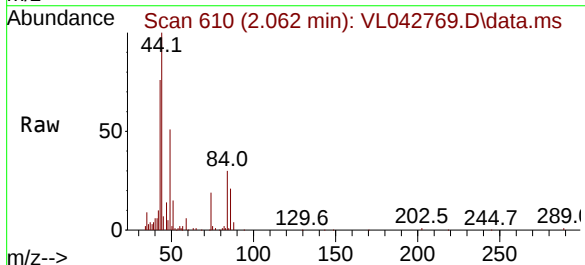
Ion Ratio Lower Upper

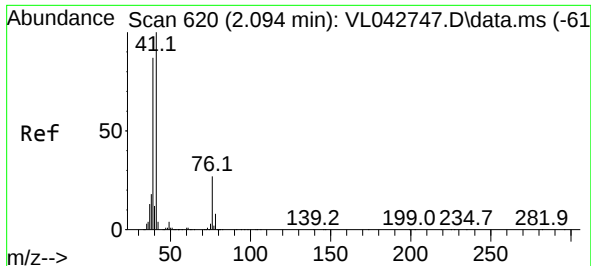
84 100

49 163.3 138.6 208.0

51 47.0 40.6 61.0

86 68.1 49.8 74.8

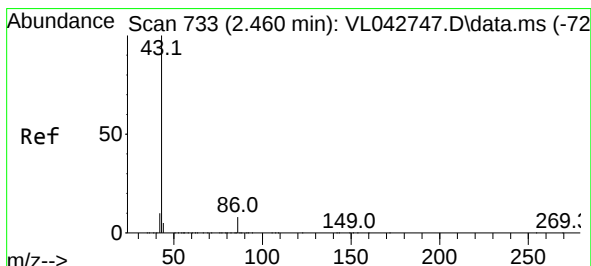
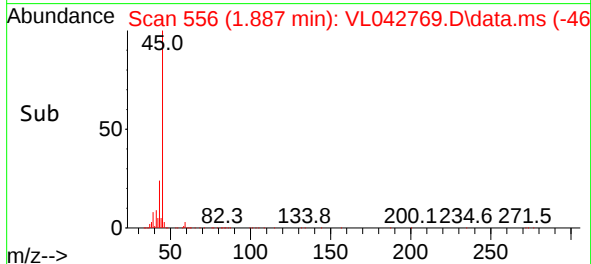
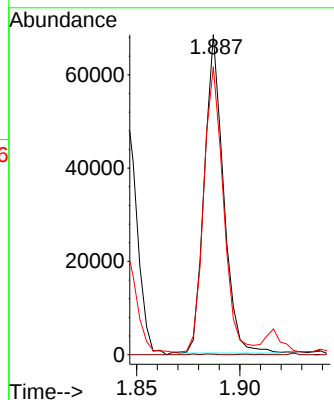
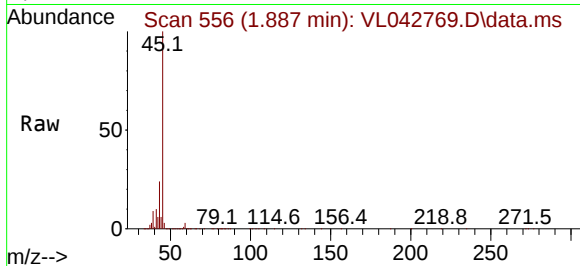




#21
 Allyl Chloride
 Concen: 3.399 ppbv
 RT: 1.887 min Scan# 51
 Delta R.T. -0.207 min
 Lab File: VL042769.D
 Acq: 24 Jul 2025 17:29

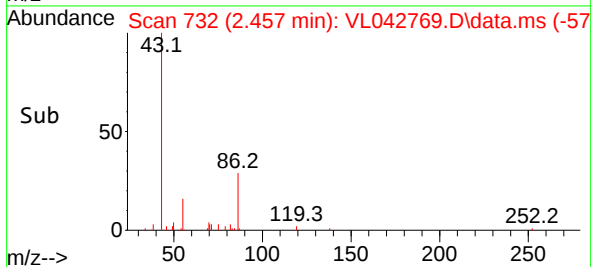
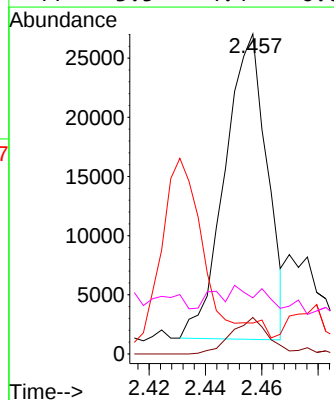
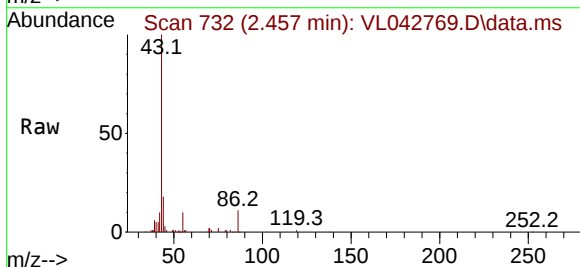
Instrument :
 MSVOA_1
 ClientSampleId :
 118-IA-2

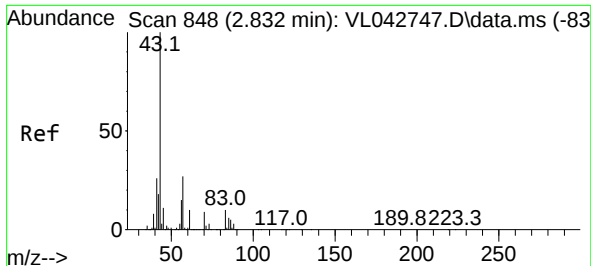
Tgt Ion: 41 Resp: 44013
 Ion Ratio Lower Upper
 41 100
 76 0.2 21.1 31.7#
 39 99.9 68.3 102.5



#23
 Vinyl Acetate
 Concen: 1.051 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.003 min
 Lab File: VL042769.D
 Acq: 24 Jul 2025 17:29

Tgt Ion: 43 Resp: 26780
 Ion Ratio Lower Upper
 43 100
 86 12.0 6.1 9.1#
 42 3.6 7.8 11.8#
 44 3.5 4.4 6.6#

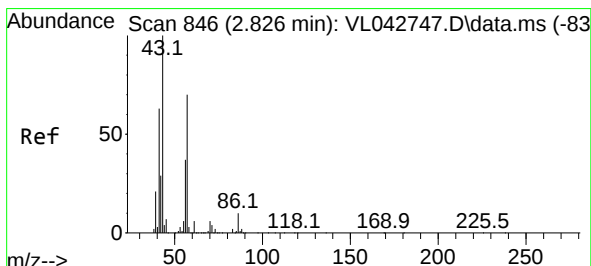
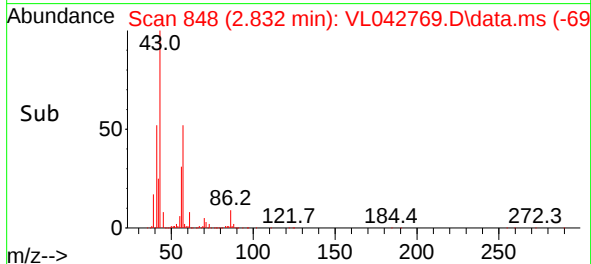
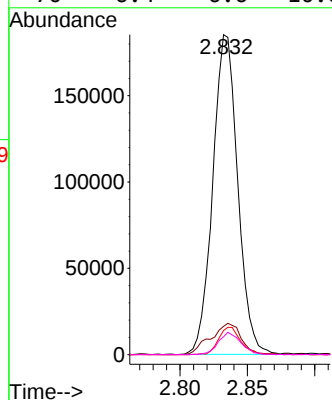
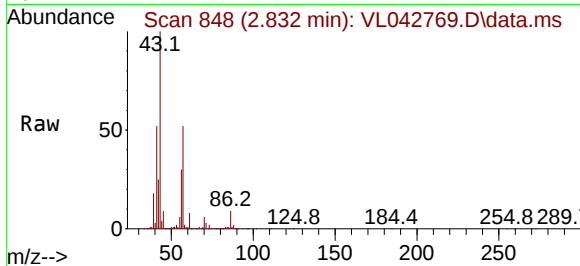




#25
Ethyl Acetate
Concen: 5.131 ppbv
RT: 2.832 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

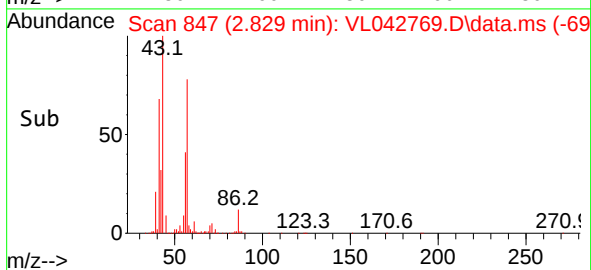
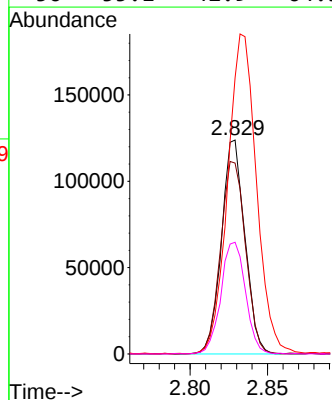
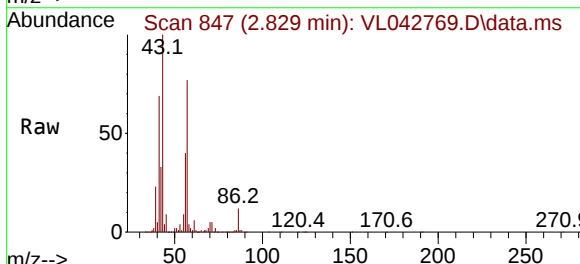
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

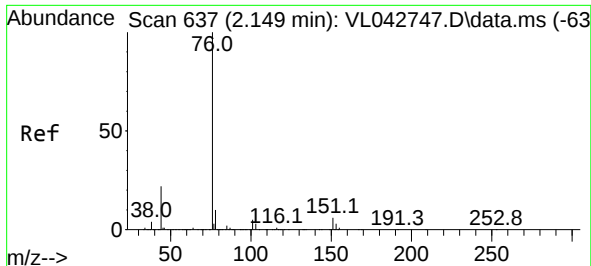
Tgt Ion: 43 Resp: 238601
Ion Ratio Lower Upper
43 100
45 12.2 7.8 11.6#
61 7.8 6.7 10.1
70 6.4 6.6 10.0#



#26
Hexane
Concen: 6.389 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 57 Resp: 130342
Ion Ratio Lower Upper
57 100
41 96.2 75.4 113.2
43 184.3 185.0 277.6#
56 55.1 42.9 64.3





#27

Carbon Disulfide

Concen: 0.064 ppbv

RT: 2.156 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

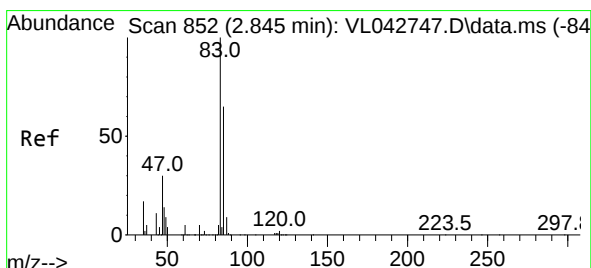
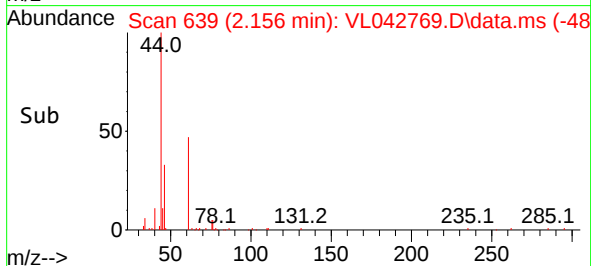
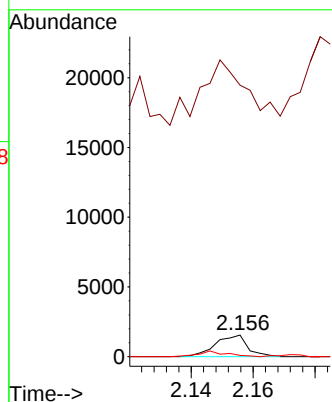
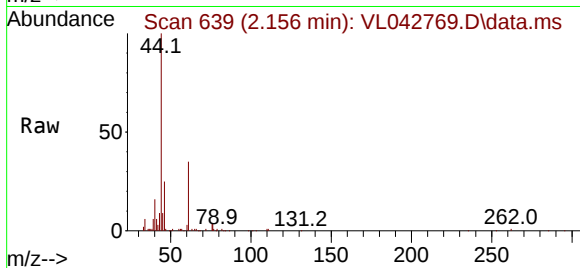
MSVOA_1

ClientSampleId :

118-IA-2

Tgt Ion: 76 Resp: 1118

Ion	Ratio	Lower	Upper
76	100		
44	2810.6	19.3	28.9#
78	32.6	9.9	14.9#



#29

Chloroform

Concen: 0.659 ppbv

RT: 2.848 min Scan# 853

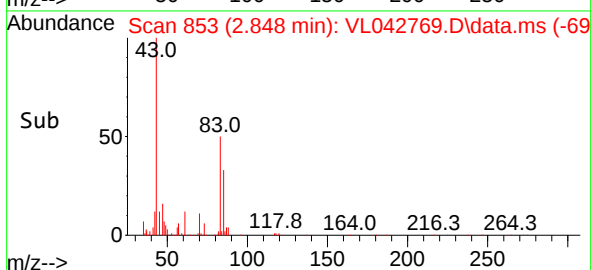
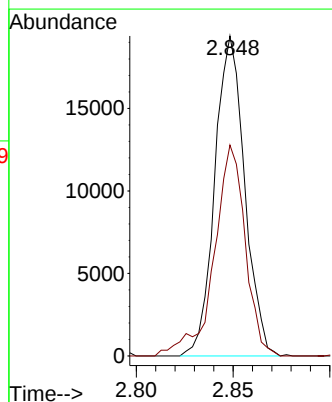
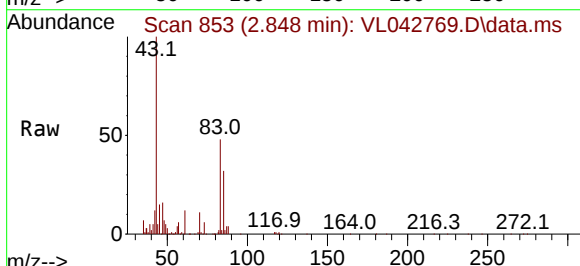
Delta R.T. 0.003 min

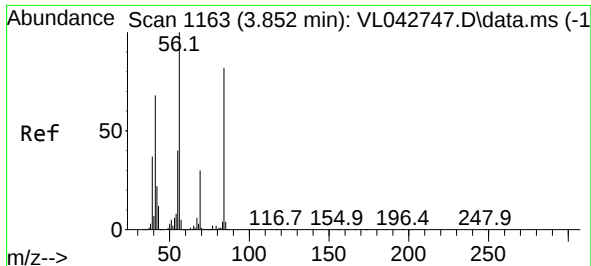
Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Tgt Ion: 83 Resp: 20783

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.2	78.2

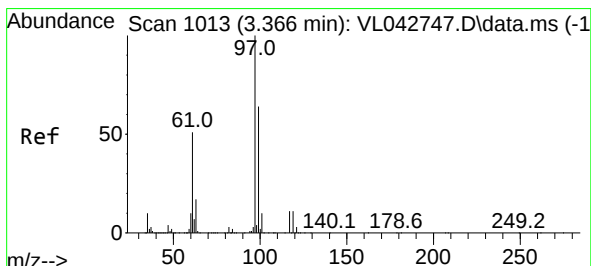
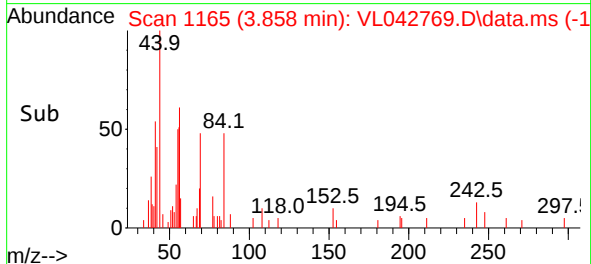
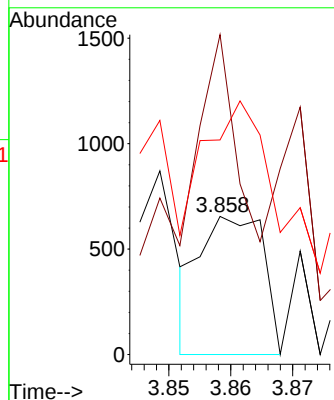
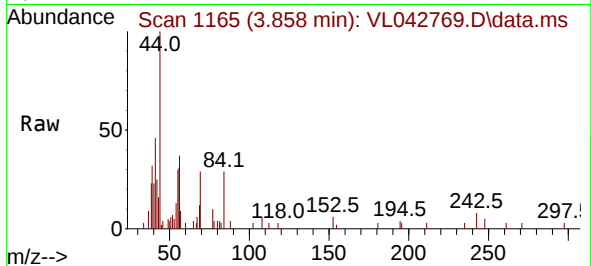




#30
Cyclohexane
Concen: 0.027 ppbv
RT: 3.858 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

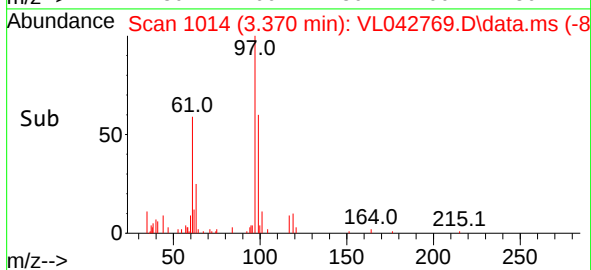
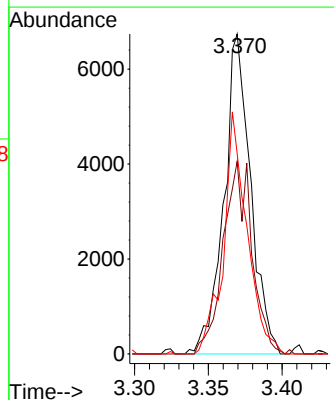
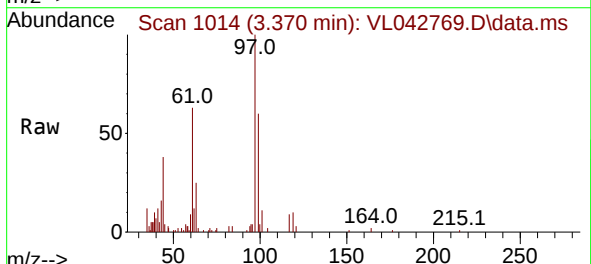
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

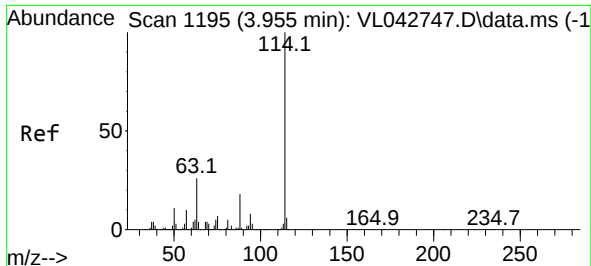
Tgt Ion	84	Resp:	460
Ion	Ratio	Lower	Upper
84	100		
56	520.0	97.5	146.3#
41	653.7	67.2	100.8#



#32
1,1,1-Trichloroethane
Concen: 0.258 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion	97	Resp:	8467
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.0	76.6
61	66.6	40.9	61.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

118-IA-2

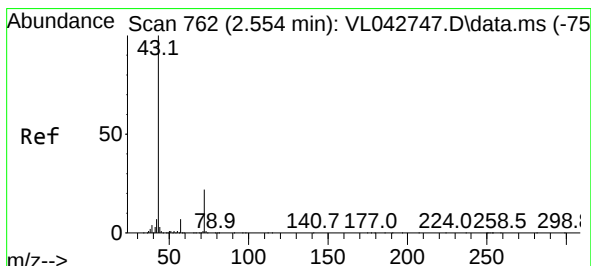
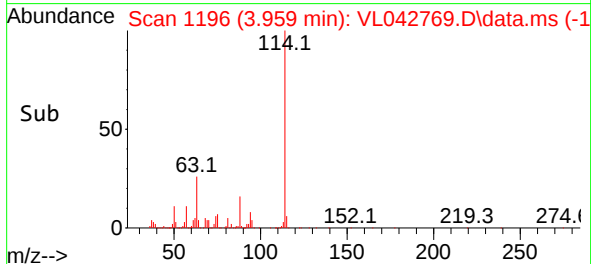
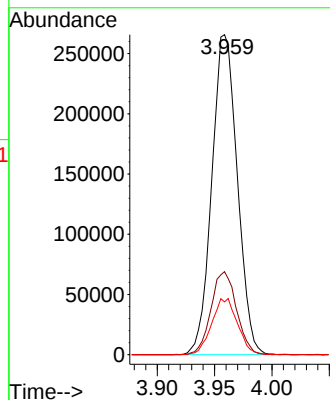
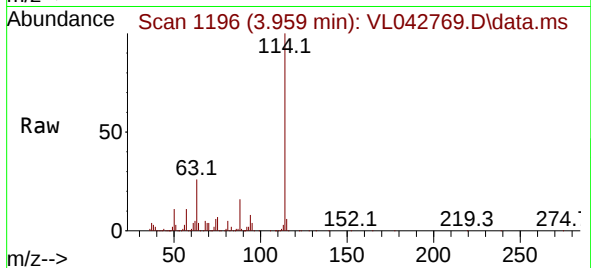
Tgt Ion:114 Resp: 410938

Ion Ratio Lower Upper

114 100

63 26.1 20.5 30.7

88 17.8 14.0 21.0



#34

2-Butanone

Concen: 1.107 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042769.D

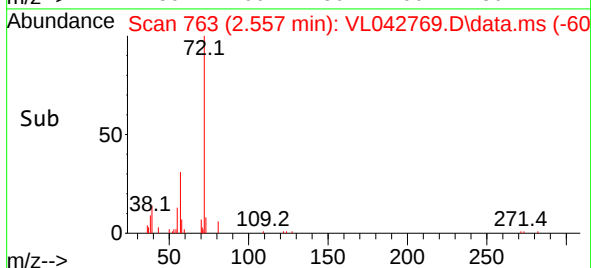
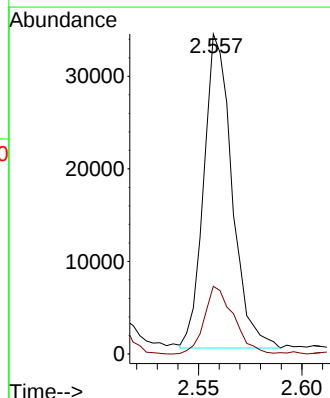
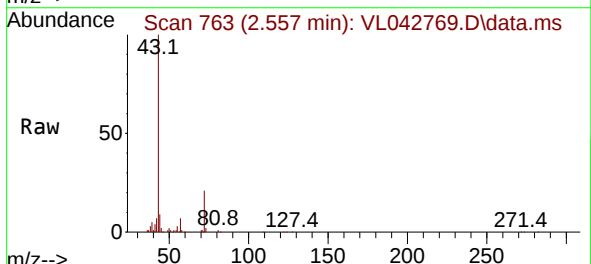
Acq: 24 Jul 2025 17:29

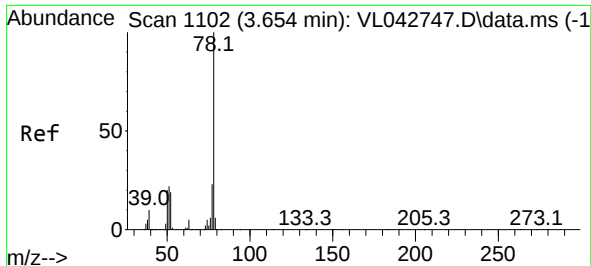
Tgt Ion: 43 Resp: 32227

Ion Ratio Lower Upper

43 100

72 23.1 17.4 26.0





#36

Benzene

Concen: 0.115 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

118-IA-2

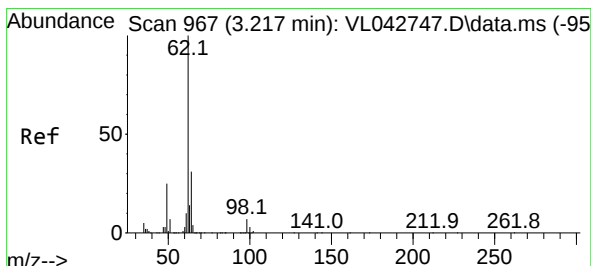
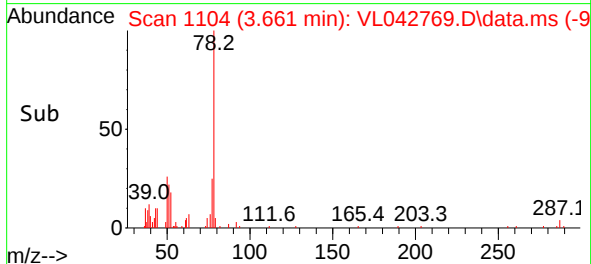
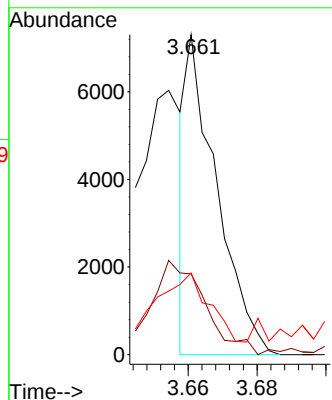
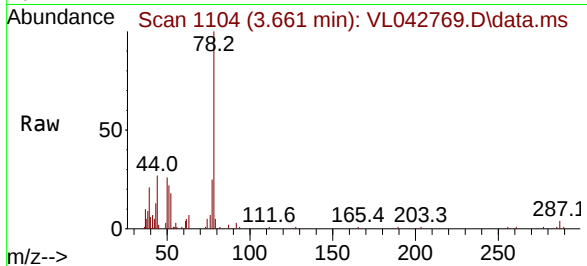
Tgt Ion: 78 Resp: 4478

Ion Ratio Lower Upper

78 100

77 24.2 18.5 27.7

50 17.6 16.2 24.2



#37

1,2-Dichloroethane

Concen: 1.099 ppbv

RT: 3.221 min Scan# 968

Delta R.T. 0.003 min

Lab File: VL042769.D

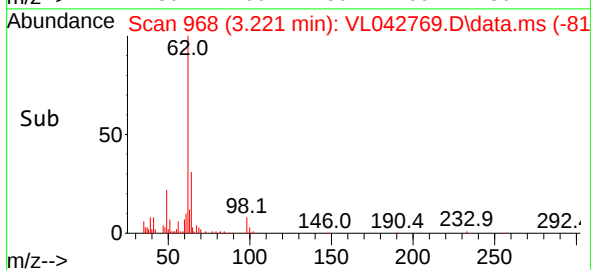
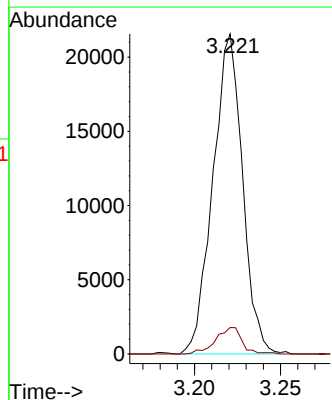
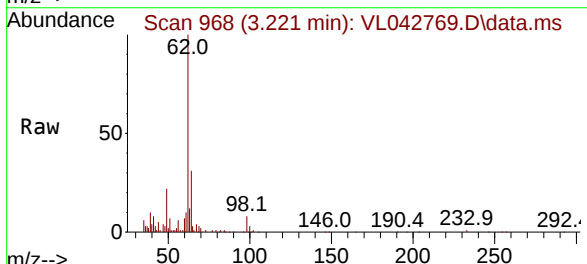
Acq: 24 Jul 2025 17:29

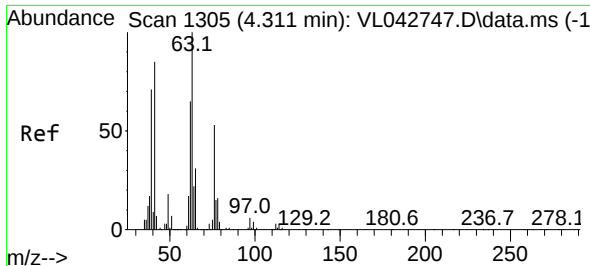
Tgt Ion: 62 Resp: 25795

Ion Ratio Lower Upper

62 100

98 7.4 5.2 7.8





#39

1,2-Dichloropropane

Concen: 7.439 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

118-IA-2

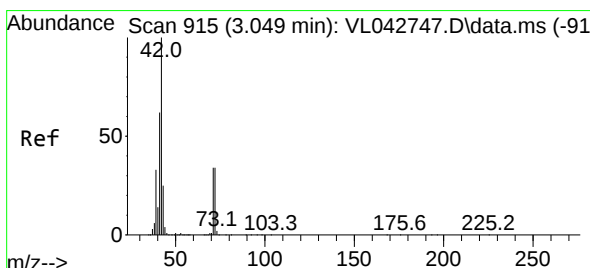
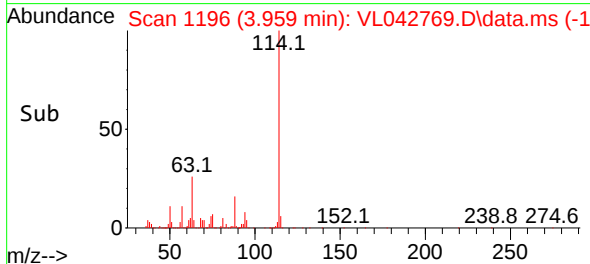
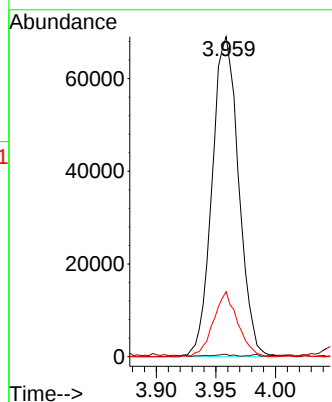
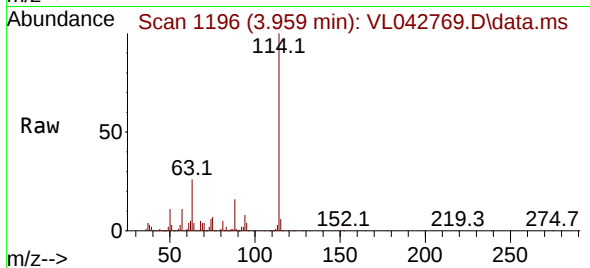
Tgt Ion: 63 Resp: 106942

Ion Ratio Lower Upper

63 100

41 0.5 68.2 102.4#

62 20.3 52.0 78.0#



#41

Tetrahydrofuran

Concen: 0.233 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.016 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

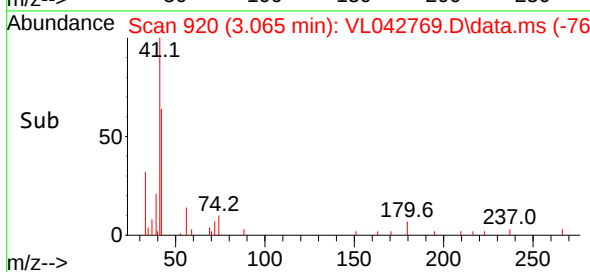
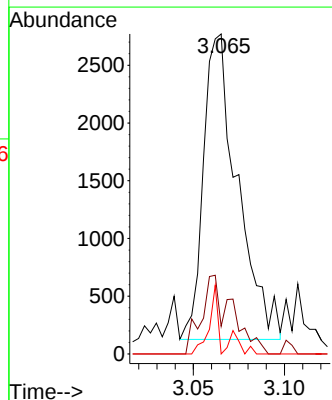
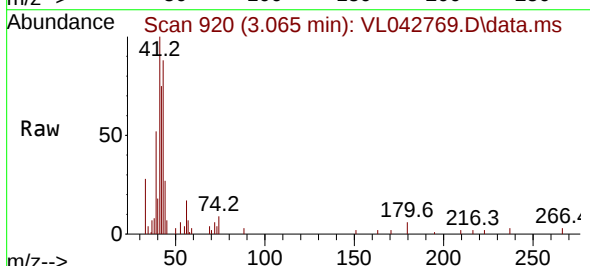
Tgt Ion: 42 Resp: 3445

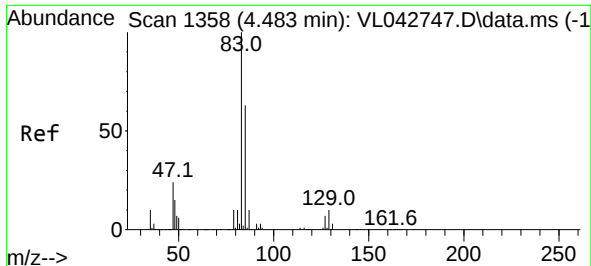
Ion Ratio Lower Upper

42 100

72 24.3 30.9 46.3#

71 8.0 28.6 43.0#

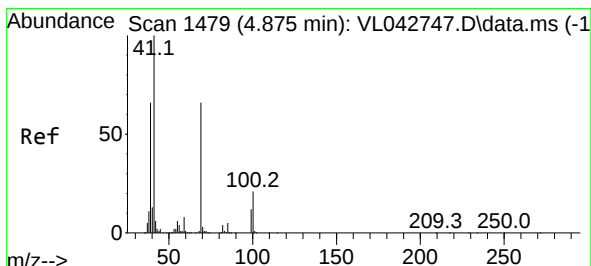
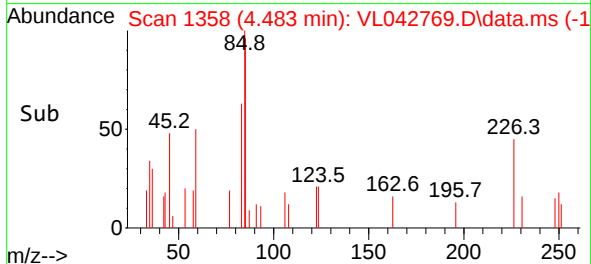
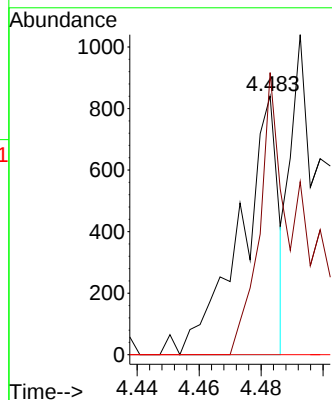
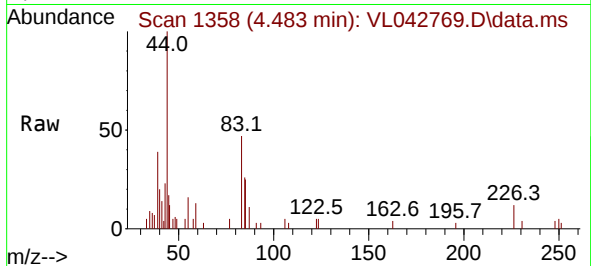




#42
Bromodichloromethane
Concen: 0.023 ppbv
RT: 4.483 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

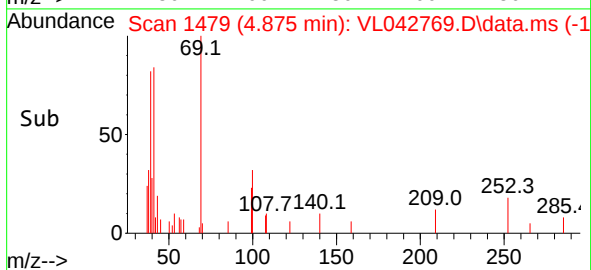
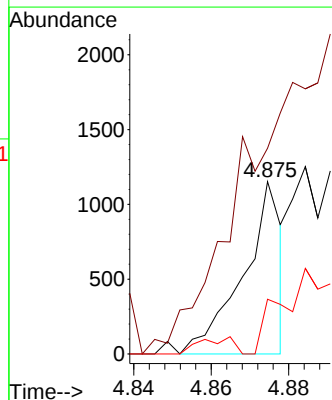
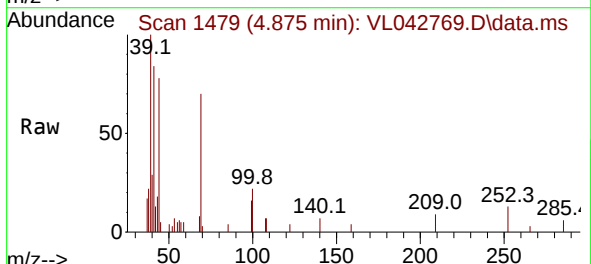
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

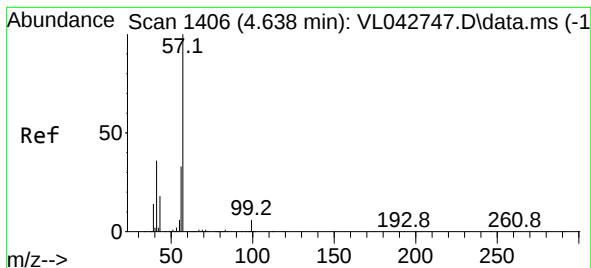
Tgt Ion: 83 Resp: 703
Ion Ratio Lower Upper
83 100
85 109.0 50.2 75.4#
127 0.0 5.4 8.2#



#43
Methyl Methacrylate
Concen: 0.057 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 69 Resp: 785
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#





#44

2,2,4-Trimethylpentane

Concen: 0.041 ppbv

RT: 4.635 min Scan# 1406

Delta R.T. -0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

118-IA-2

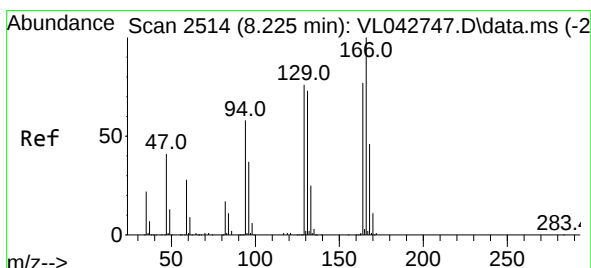
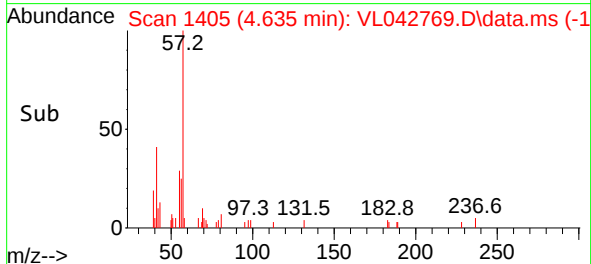
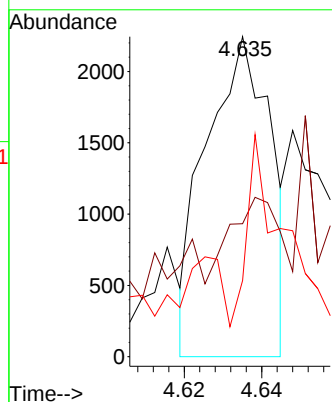
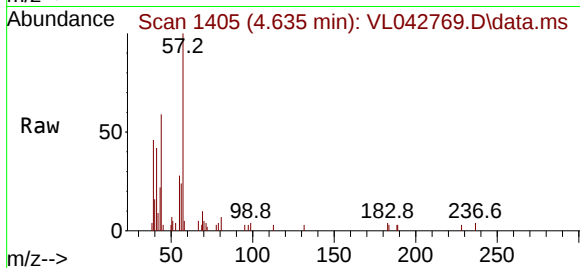
Tgt Ion: 57 Resp: 2596

Ion Ratio Lower Upper

57 100

41 0.0 28.3 42.5#

56 92.5 25.8 38.6#



#52

Tetrachloroethene

Concen: 0.448 ppbv

RT: 8.228 min Scan# 2515

Delta R.T. 0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Tgt Ion: 164 Resp: 7237

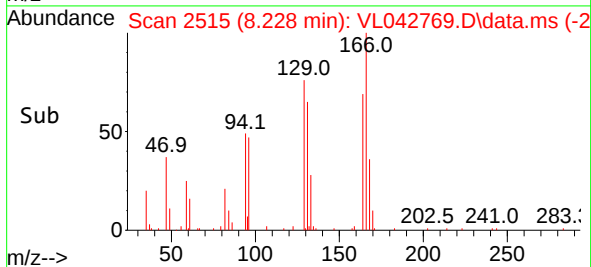
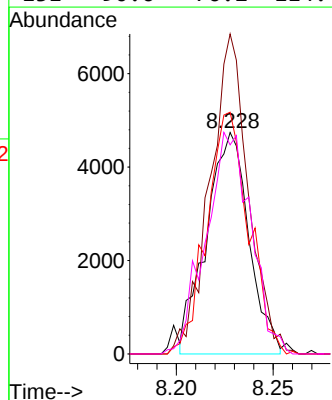
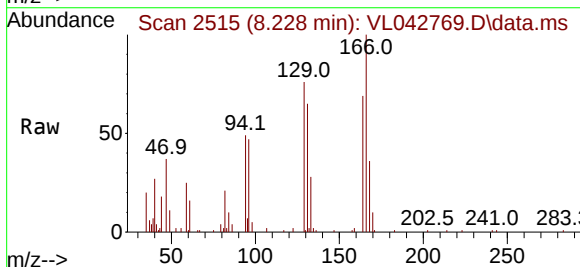
Ion Ratio Lower Upper

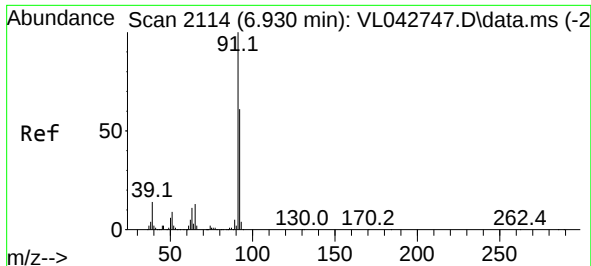
164 100

166 138.9 104.0 156.0

129 108.0 79.2 118.8

131 90.6 76.2 114.4





#53

Toluene

Concen: 1.583 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. 0.006 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

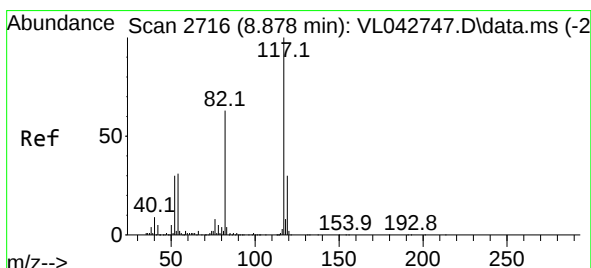
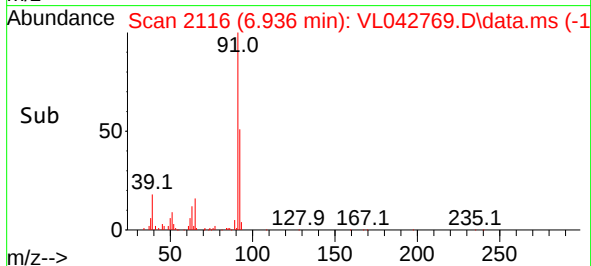
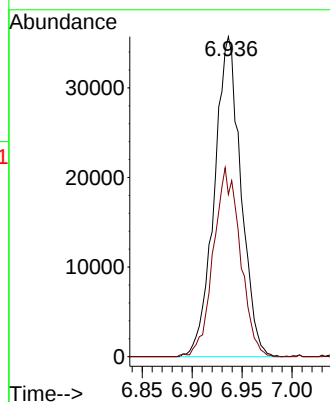
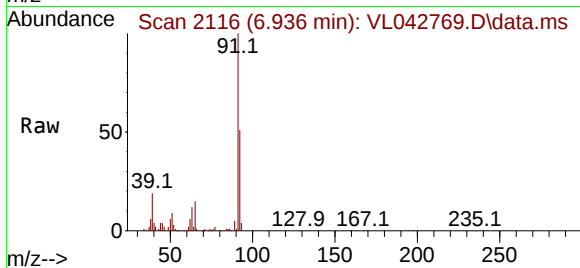
118-IA-2

Tgt Ion: 91 Resp: 66216

Ion Ratio Lower Upper

91 100

92 59.6 48.0 72.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

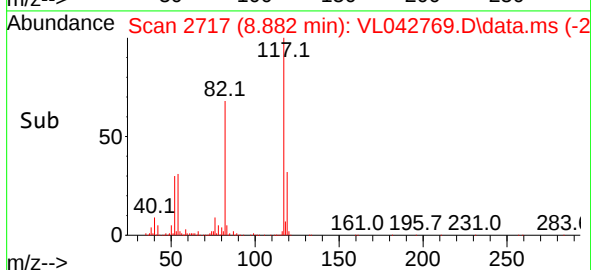
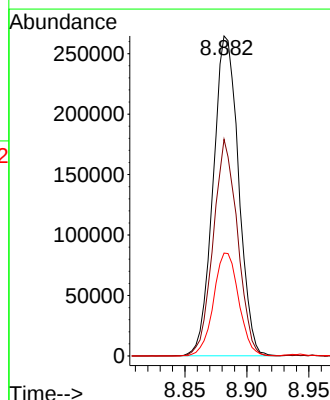
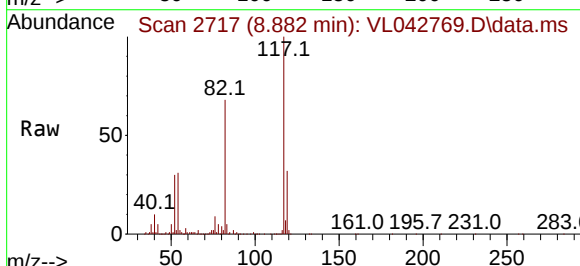
Tgt Ion: 117 Resp: 378371

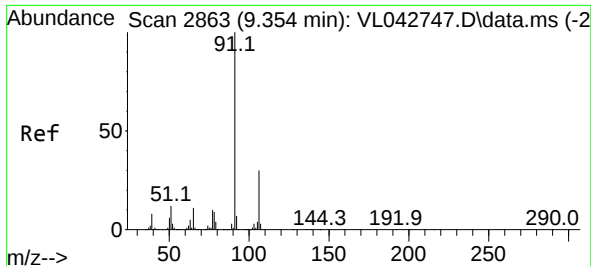
Ion Ratio Lower Upper

117 100

82 64.9 53.3 79.9

119 32.0 25.8 38.6





#58

Ethyl Benzene

Concen: 0.206 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. -0.000 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

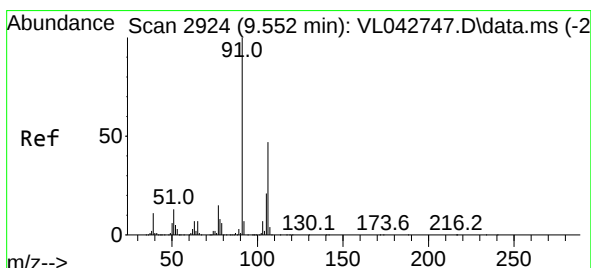
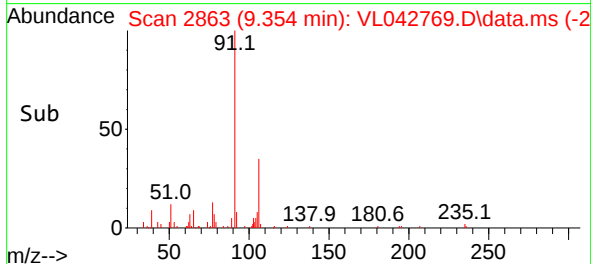
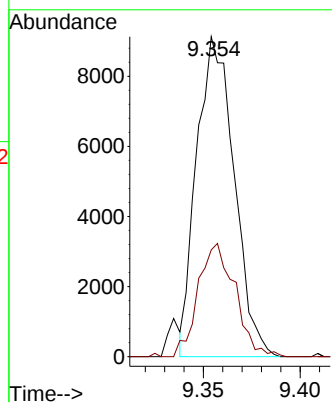
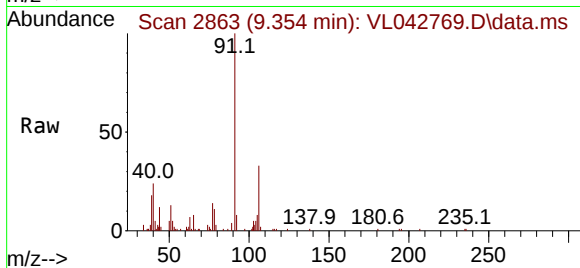
118-IA-2

Tgt Ion: 91 Resp: 12289

Ion Ratio Lower Upper

91 100

106 32.8 23.8 35.6



#59

m/p-Xylene

Concen: 0.123 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042769.D

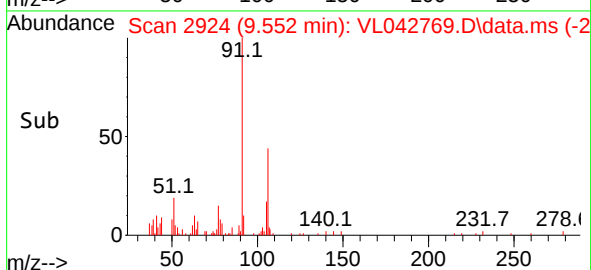
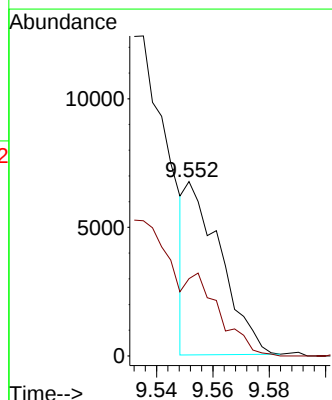
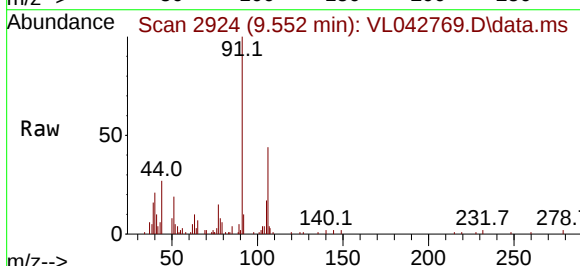
Acq: 24 Jul 2025 17:29

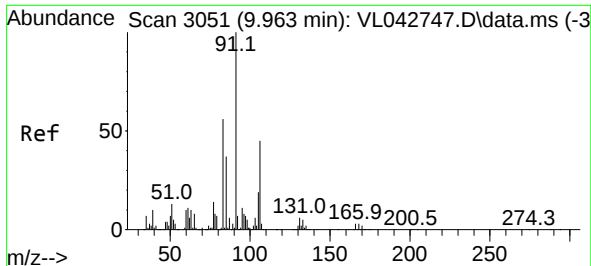
Tgt Ion: 91 Resp: 5853

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#

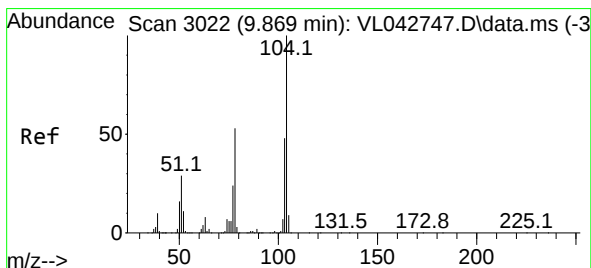
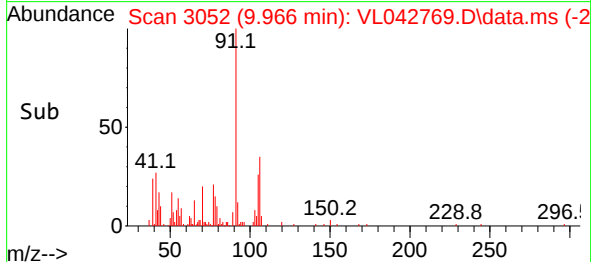
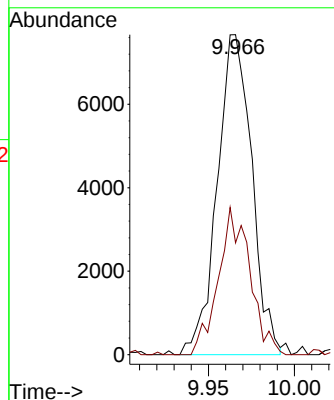
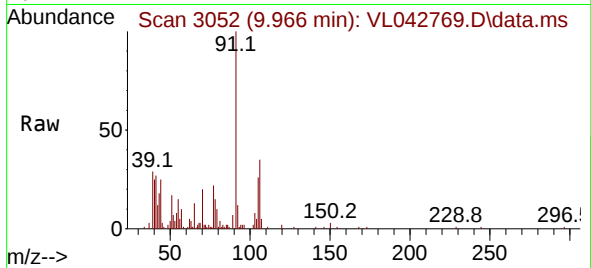




#60
o-Xylene
Concen: 0.225 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

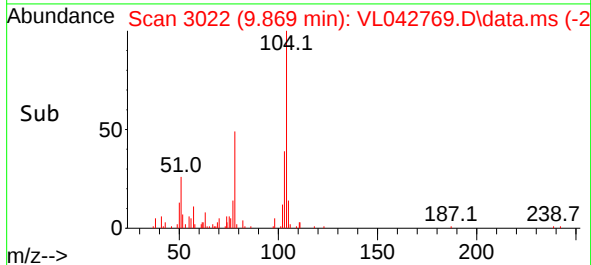
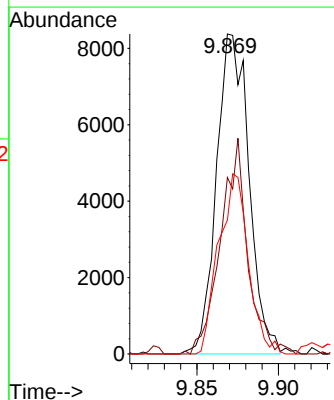
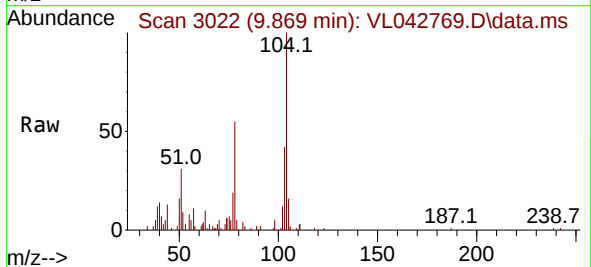
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

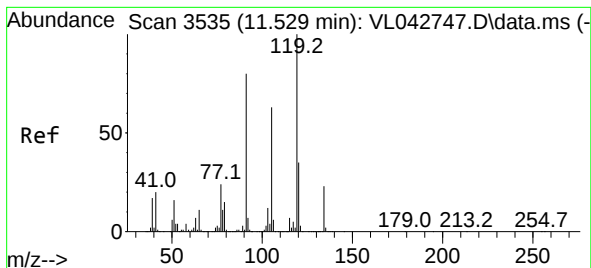
Tgt Ion: 91 Resp: 10717
Ion Ratio Lower Upper
91 100
106 42.0 22.0 66.0



#61
Styrene
Concen: 0.576 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 104 Resp: 11559
Ion Ratio Lower Upper
104 100
78 57.2 41.5 62.3
103 51.7 37.5 56.3





#65

tert-Butylbenzene

Concen: 0.029 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

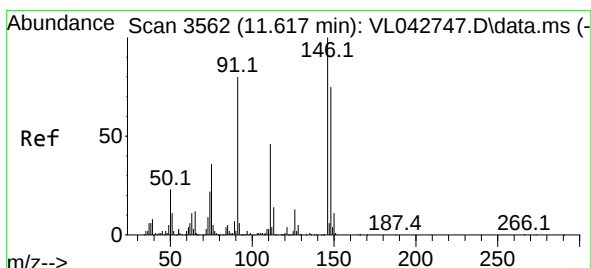
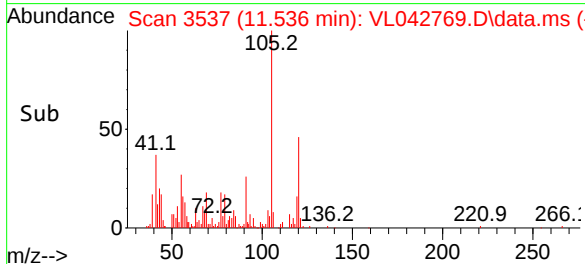
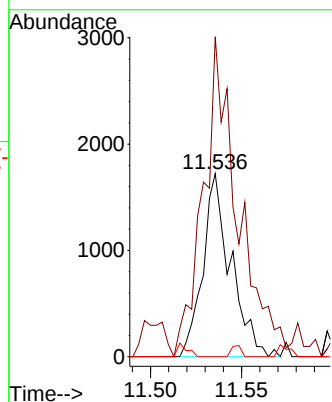
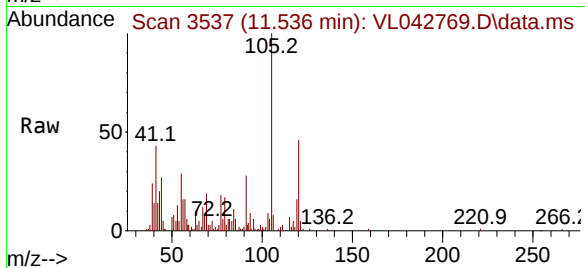
Instrument :

MSVOA_1

ClientSampleId :

118-IA-2

Tgt Ion:	119	Resp:	1834
Ion	Ratio	Lower	Upper
119	100		
91	239.7	64.0	96.0#
134	0.0	17.3	25.9#



#66

Benzyl Chloride

Concen: 0.143 ppbv

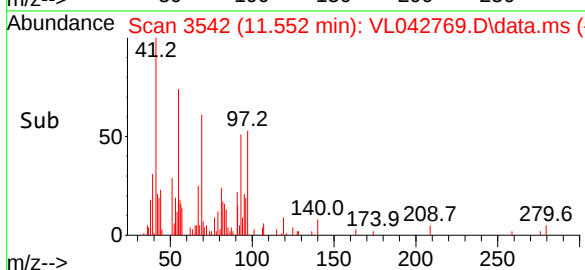
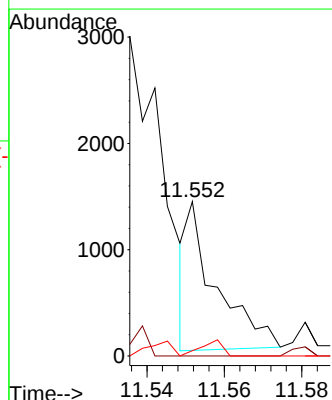
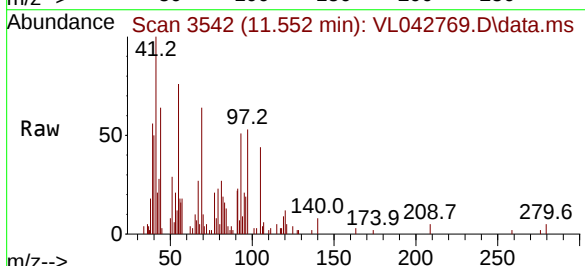
RT: 11.552 min Scan# 3542

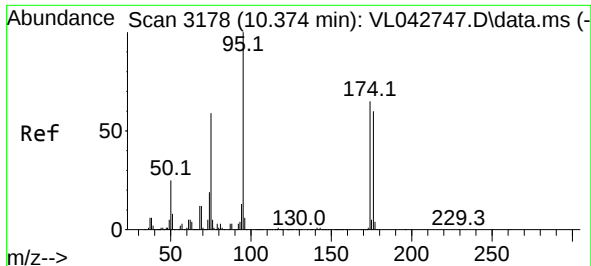
Delta R.T. -0.065 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Tgt Ion:	91	Resp:	735
Ion	Ratio	Lower	Upper
91	100		
126	3.9	14.4	21.6#
128	16.1	5.2	7.8#

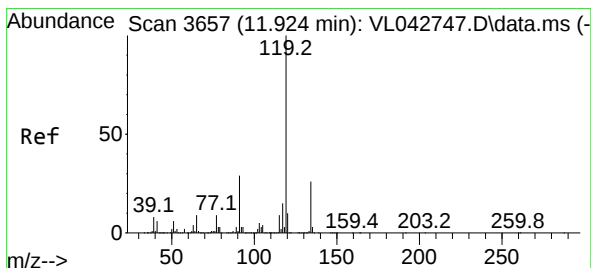
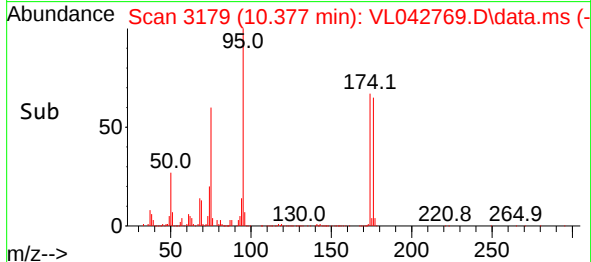
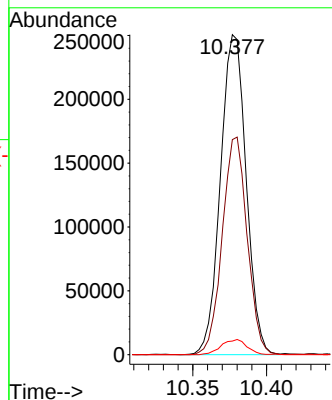
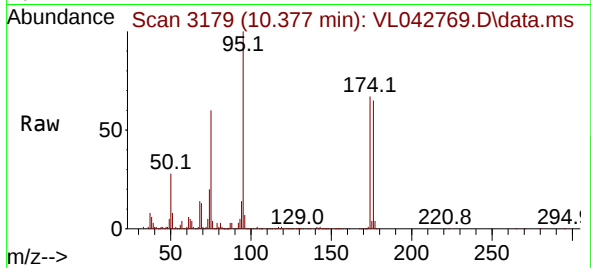




#68
1-Bromo-4-Fluorobenzene
Concen: 10.147 ppbv
RT: 10.377 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

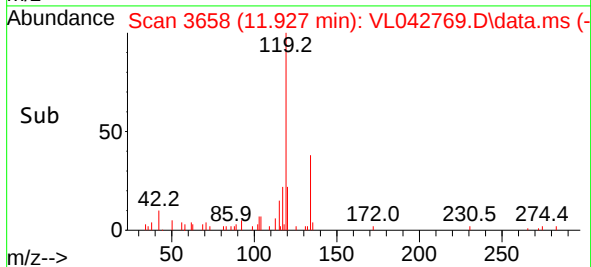
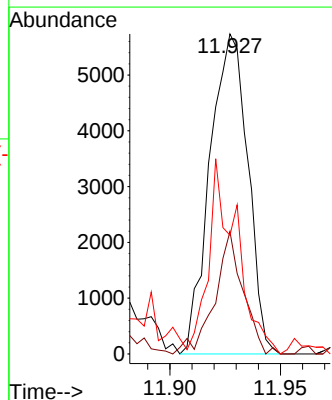
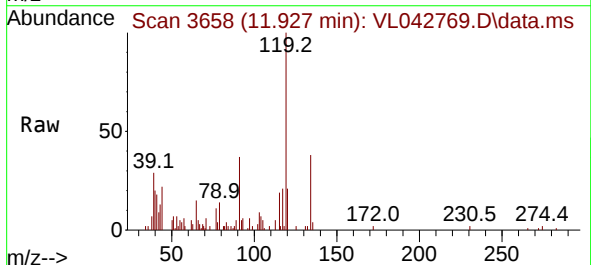
Instrument :
MSVOA_L
ClientSampleId :
118-IA-2

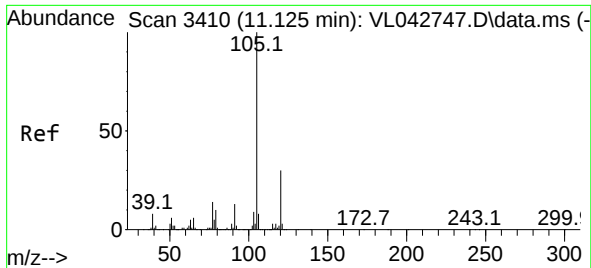
Tgt Ion: 95 Resp: 304041
Ion Ratio Lower Upper
95 100
174 66.0 53.8 80.6
175 4.8 4.0 6.0



#69
p-Isopropyltoluene
Concen: 0.094 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion: 119 Resp: 6833
Ion Ratio Lower Upper
119 100
134 28.8 20.6 31.0
91 51.8 23.2 34.8#

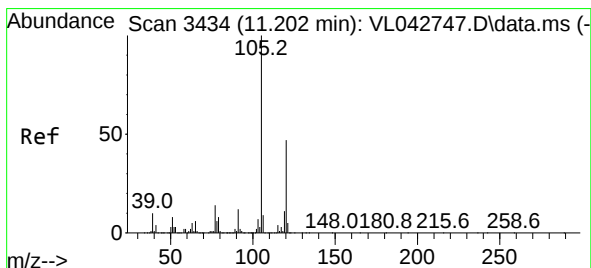
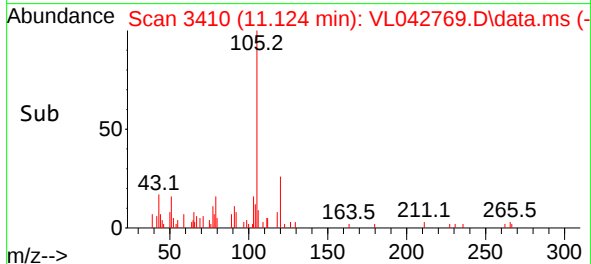
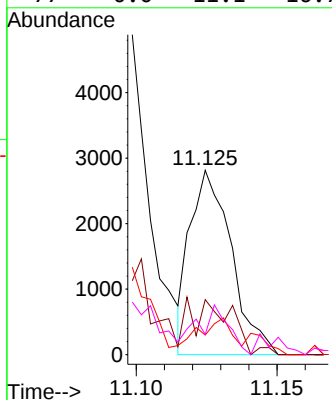
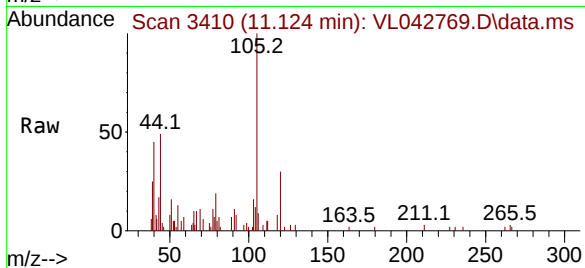




#72
4-Ethyltoluene
Concen: 0.050 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

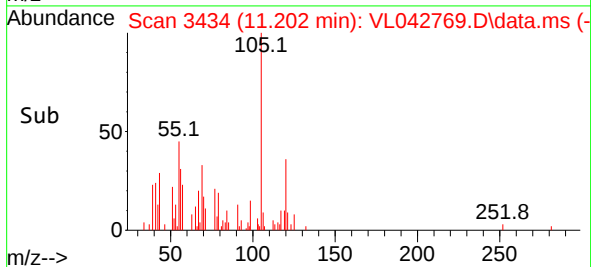
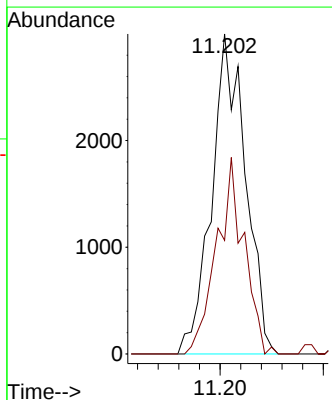
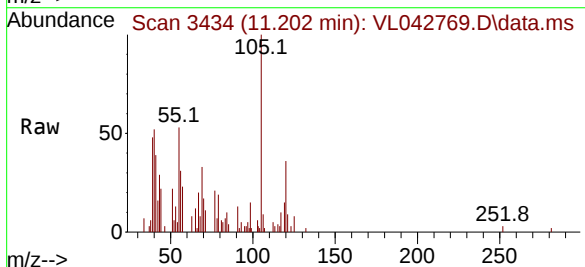
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

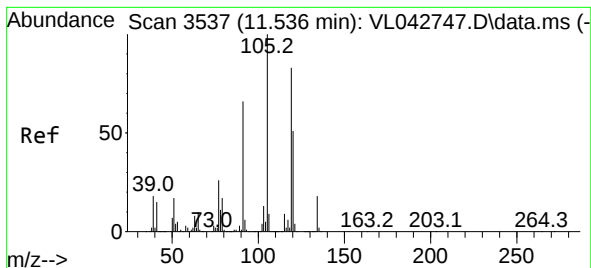
Tgt Ion:	105	Resp:	2875
Ion Ratio	Lower	Upper	
105	100		
120	30.4	24.4	36.6
91	0.0	10.6	15.8#
77	0.0	11.1	16.7#



#73
1,3,5-Trimethylbenzene
Concen: 0.073 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.000 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion:	105	Resp:	3411
Ion Ratio	Lower	Upper	
105	100		
120	35.5	37.8	56.8#





#74

1,2,4-Trimethylbenzene

Concen: 0.231 ppbv

RT: 11.539 min Scan# 3537

Delta R.T. 0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_1

ClientSampleId :

118-IA-2

Tgt Ion:105 Resp: 11842

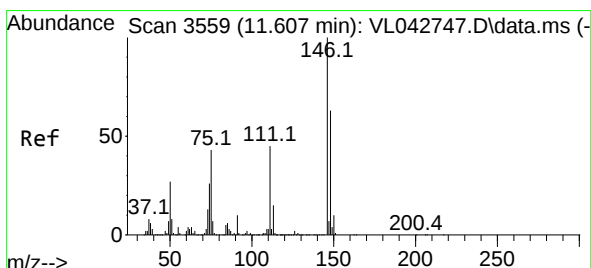
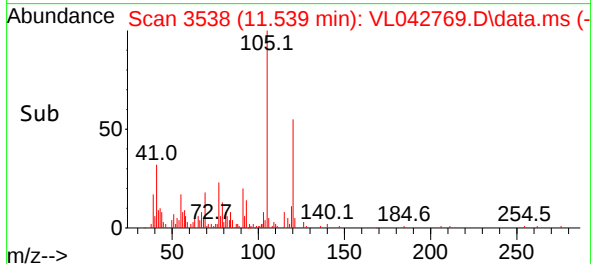
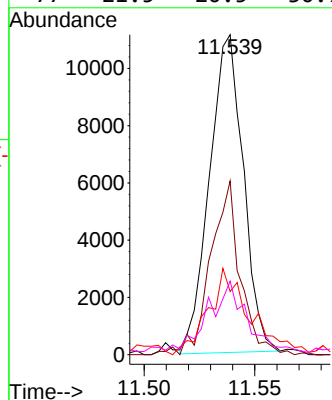
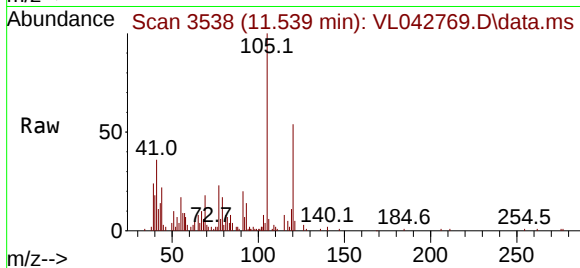
Ion Ratio Lower Upper

105 100

120 54.2 40.8 61.2

91 17.6 53.0 79.4#

77 21.5 20.5 30.7



#75

1,3-Dichlorobenzene

Concen: 0.033 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. 0.061 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

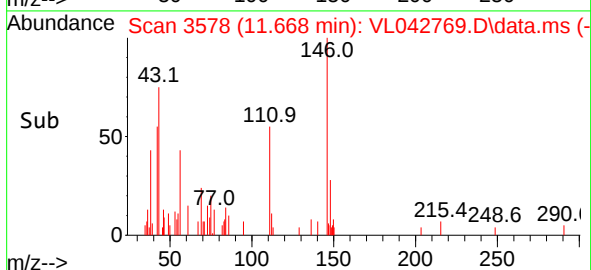
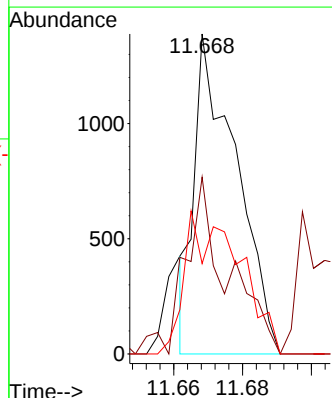
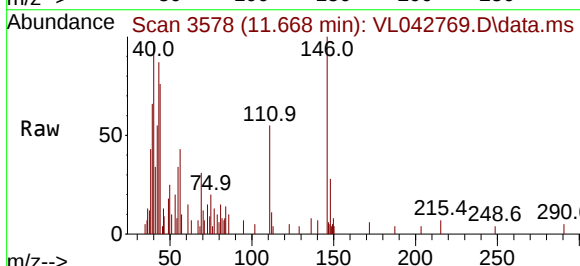
Tgt Ion:146 Resp: 1171

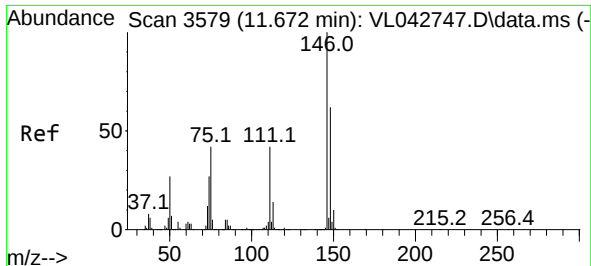
Ion Ratio Lower Upper

146 100

111 59.0 22.7 68.0

148 57.8 31.9 95.5

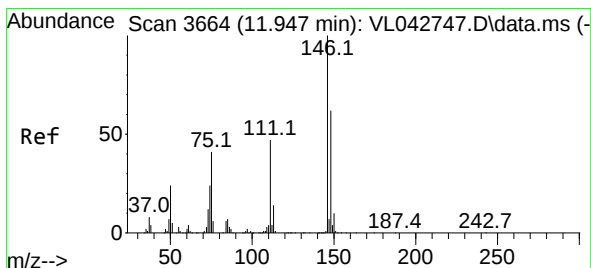
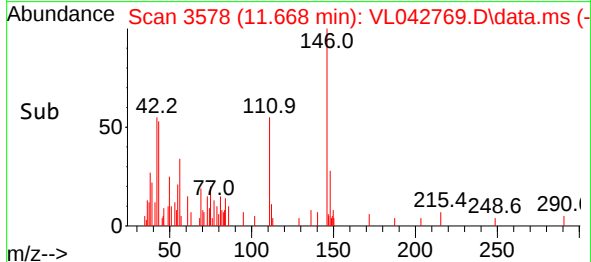
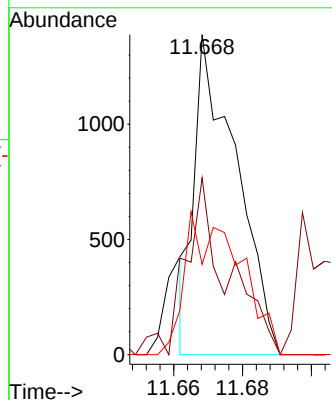
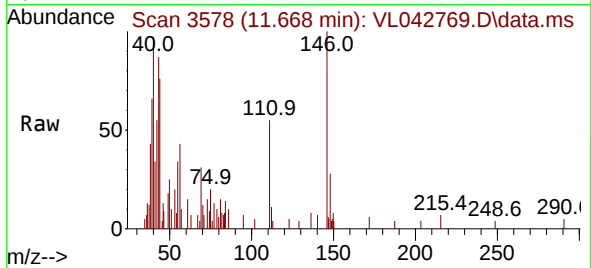




#76
1,4-Dichlorobenzene
Concen: 0.033 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

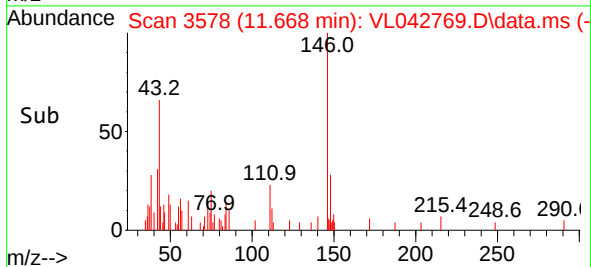
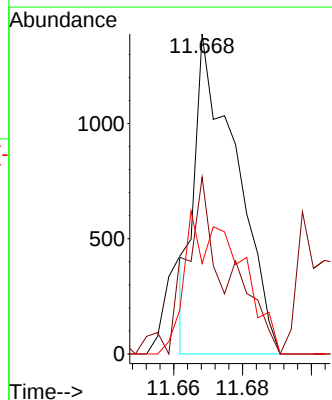
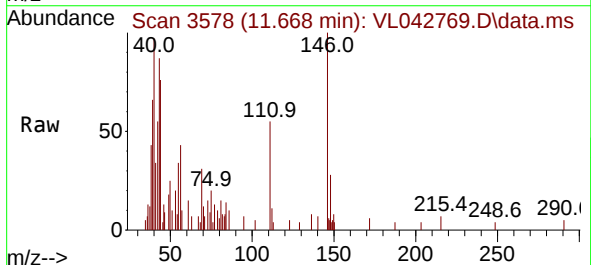
Instrument :
MSVOA_1
ClientSampleId :
118-IA-2

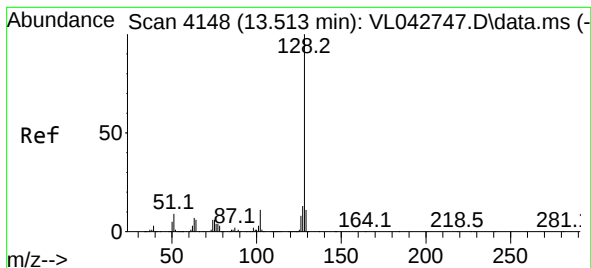
Tgt Ion:146 Resp: 1171
Ion Ratio Lower Upper
146 100
111 57.2 21.4 64.2
148 57.7 32.1 96.3



#77
1,2-Dichlorobenzene
Concen: 0.033 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.278 min
Lab File: VL042769.D
Acq: 24 Jul 2025 17:29

Tgt Ion:146 Resp: 1171
Ion Ratio Lower Upper
146 100
111 59.0 23.7 71.1
148 57.8 32.6 97.7





#79

Naphthalene

Concen: 0.526 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

118-IA-2

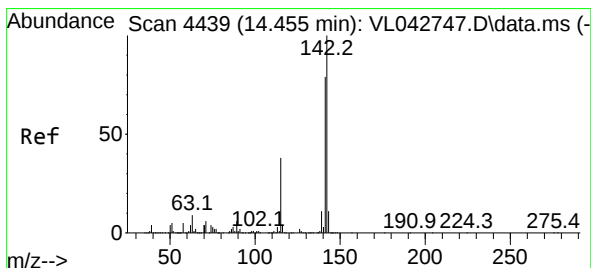
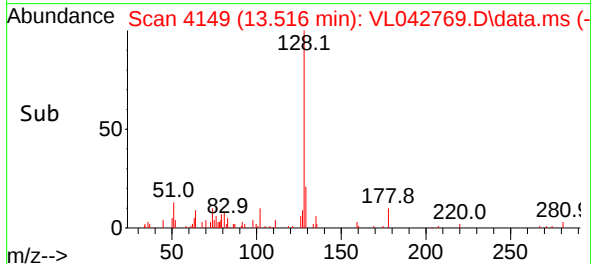
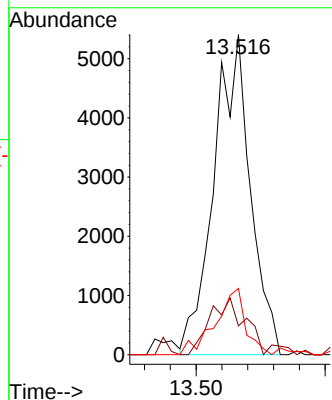
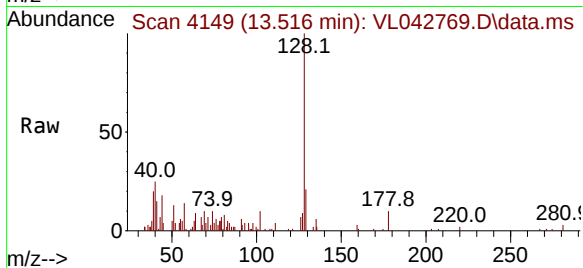
Tgt Ion:128 Resp: 5307

Ion Ratio Lower Upper

128 100

127 9.0 10.5 15.7#

129 20.7 8.6 13.0#



#80

Naphthalene,2-methyl-

Concen: 1.145 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.000 min

Lab File: VL042769.D

Acq: 24 Jul 2025 17:29

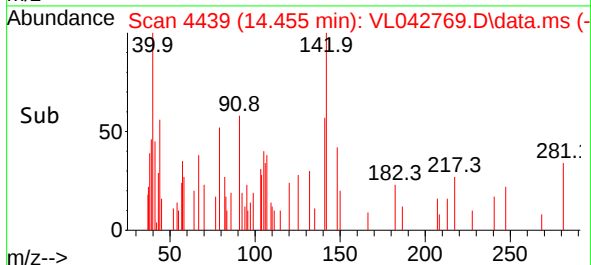
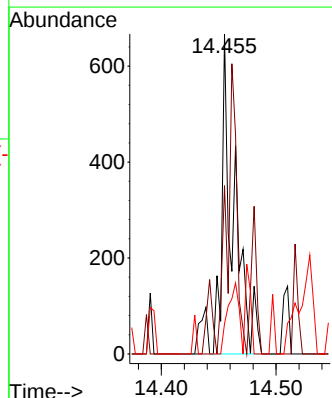
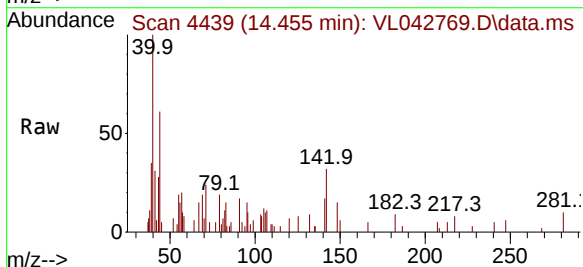
Tgt Ion:142 Resp: 517

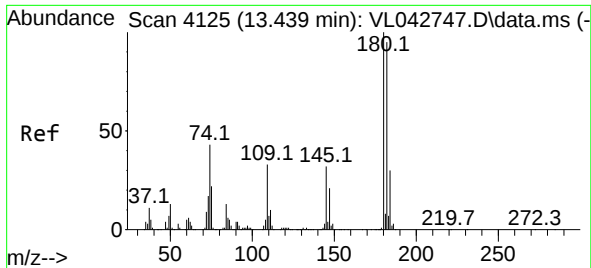
Ion Ratio Lower Upper

142 100

141 98.8 65.8 98.8#

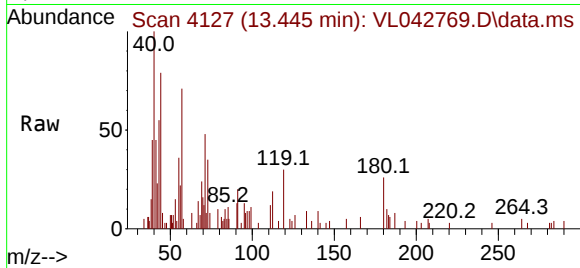
115 31.5 31.2 46.8





#81
 1,2,4-Trichlorobenzene
 Concen: 0.443 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042769.D
 Acq: 24 Jul 2025 17:29

Instrument :
 MSVOA_L
 ClientSampleId :
 118-IA-2



Tgt Ion:180 Resp: 250
 Ion Ratio Lower Upper
 180 100
 182 118.4 76.2 114.2#
 184 41.6 24.8 37.2#

