

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
 Data File : VL042630.D
 Acq On : 16 Jun 2025 15:46
 Operator : SY/MD
 Sample : Q2317-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 115-SG1

Quant Time: Jun 17 03:06:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	111111	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	291956	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	266931	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	197287	9.860	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2128	0.156	ppbv	98
3) Chlorodifluoromethane	1.466	51	41208	2.191	ppbv #	63
4) Chloromethane	1.531	50	8847	1.636	ppbv	98
5) Vinyl Chloride	1.580	62	484	0.088	ppbv #	76
7) Chloroethane	1.706	64	1235	0.577	ppbv	100
8) Dichlorotetrafluoroethane	1.499	85	2128	0.187	ppbv #	20
9) Propene	1.482	41	5787	0.764	ppbv	94
10) Heptane	4.984	43	2169	0.102	ppbv #	38
11) Trichlorofluoromethane	1.877	101	134347	10.574	ppbv	100
12) 1,1,2-Trichlorotrifluo...	1.877	101	134347	13.465	ppbv #	15
13) Ethanol	1.722	45	153596	170.164	ppbv	98
15) Acetone	1.835	43	73330	5.479	ppbv	98
16) 1,3-Butadiene	1.602	39	5476	0.864	ppbv #	42
17) tert-Butyl alcohol	2.046	59	6954	0.499	ppbv	97
19) Isopropyl Alcohol	1.887	45	18985	2.373	ppbv #	1
20) Methylene Chloride	2.062	84	8992	2.036	ppbv	89
23) Vinyl Acetate	2.453	43	8073	0.446	ppbv #	93
25) Ethyl Acetate	2.829	43	10003	0.273	ppbv #	86
26) Hexane	2.829	57	11551	0.694	ppbv #	45
27) Carbon Disulfide	2.149	76	7484	0.586	ppbv #	1
29) Chloroform	2.848	83	4149	0.192	ppbv	91
30) Cyclohexane	3.855	84	1171	0.085	ppbv #	43
34) 2-Butanone	2.560	43	21779	1.046	ppbv	100
36) Benzene	3.657	78	63818	2.220	ppbv	96
38) Trichloroethene	4.548	130	15028	1.230	ppbv	94
39) 1,2-Dichloropropane	3.962	63	72063	6.778	ppbv #	24
41) Tetrahydrofuran	3.065	42	6513	0.534	ppbv	99
43) Methyl Methacrylate	4.881	69	71010	6.364	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	2138	0.074	ppbv #	39
51) 2-Hexanone	7.448	43	10260	0.448	ppbv #	38
52) Tetrachloroethene	8.224	164	689	0.064	ppbv #	45
53) Toluene	6.936	91	95713	2.880	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.943	131	9904	0.738	ppbv #	1
59) m/p-Xylene	9.535	91	6496	0.182	ppbv	97
60) o-Xylene	9.535	91	6496	0.183	ppbv	99
61) Styrene	9.875	104	2053	0.122	ppbv	94
65) tert-Butylbenzene	11.788	119	154788	3.249	ppbv #	26
67) sec-Butylbenzene	11.788	105	39796	0.594	ppbv #	1
69) p-Isopropyltoluene	11.788	119	154668	2.757	ppbv #	51
73) 1,3,5-Trimethylbenzene	11.202	105	1309	0.036	ppbv #	73
74) 1,2,4-Trimethylbenzene	11.539	105	3643	0.090	ppbv #	72
75) 1,3-Dichlorobenzene	11.607	146	2454	0.096	ppbv #	68
76) 1,4-Dichlorobenzene	11.671	146	3546	0.139	ppbv	90

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
115-SG1

Quant Time: Jun 17 03:06:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

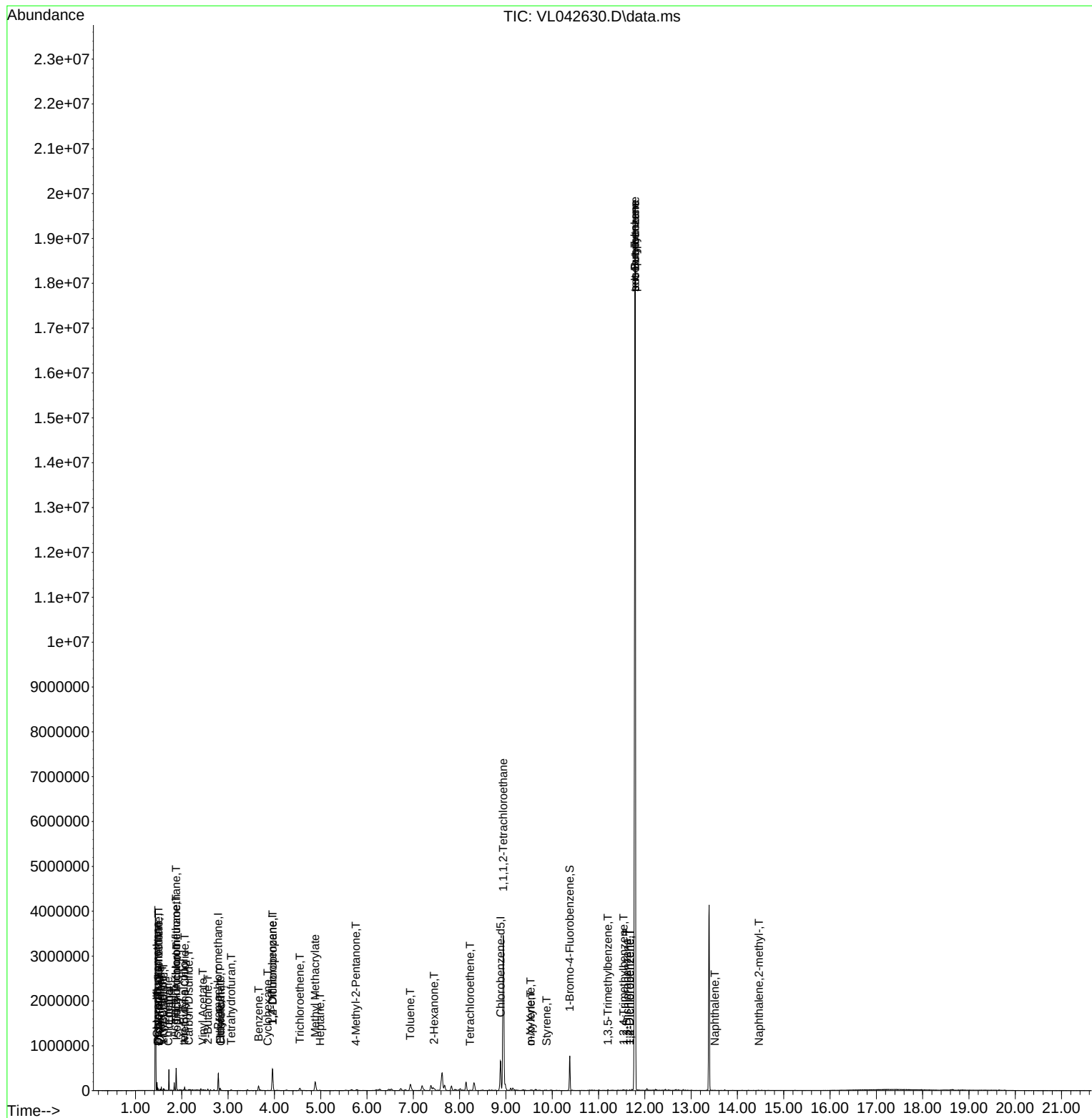
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) 1,2-Dichlorobenzene	11.671	146	3546	0.143	ppbv	95
79) Naphthalene	13.513	128	2357	0.061	ppbv #	89
80) Naphthalene,2-methyl-	14.468	142	1526	0.088	ppbv #	86

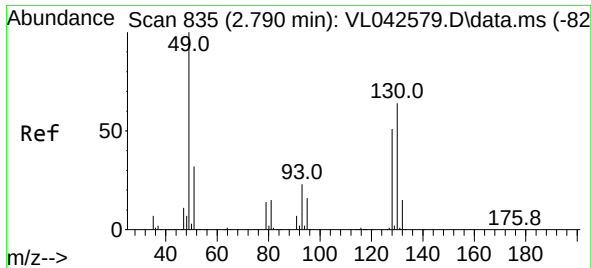
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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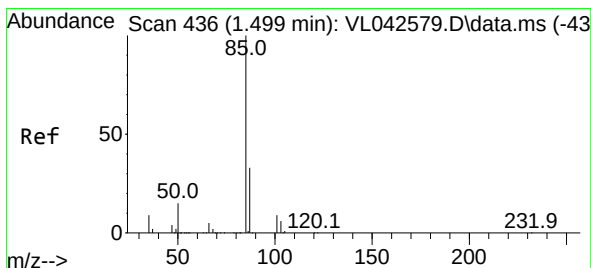
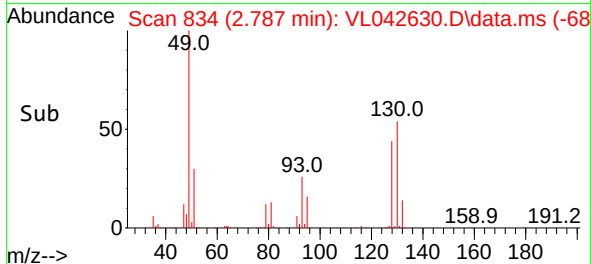
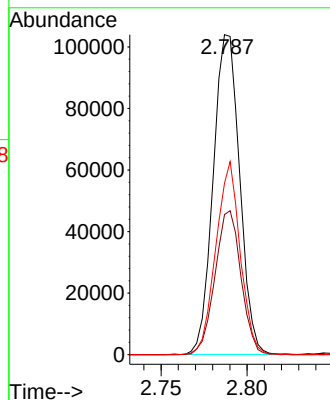
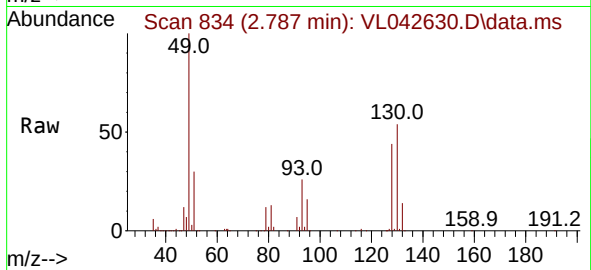




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

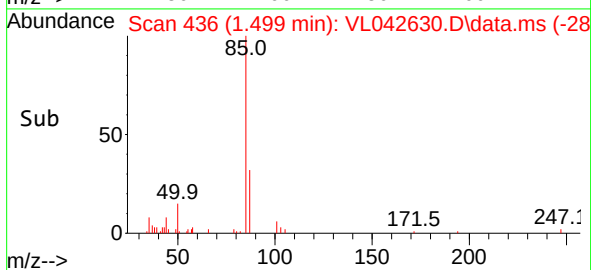
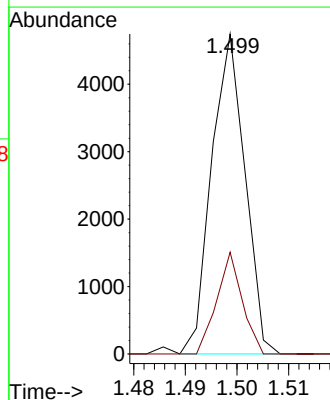
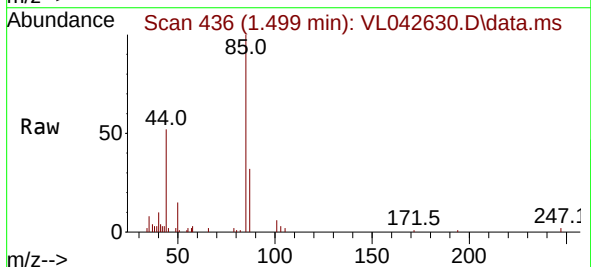
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

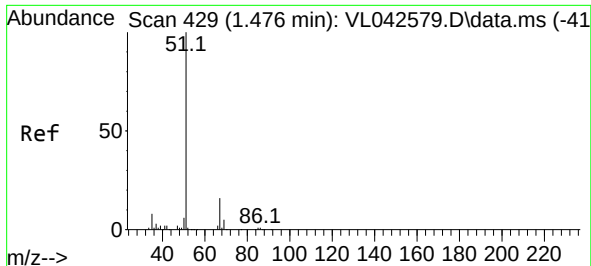
Tgt Ion: 49 Resp: 111111
Ion Ratio Lower Upper
49 100
128 44.4 24.2 72.6
130 55.6 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.156 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 85 Resp: 2128
Ion Ratio Lower Upper
85 100
87 31.8 26.6 39.8

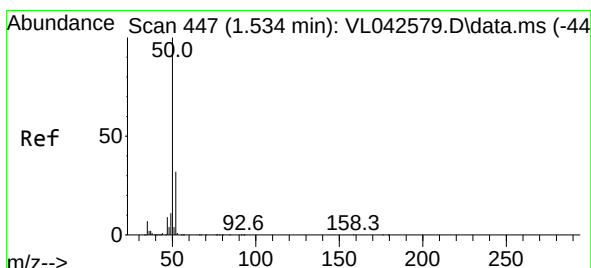
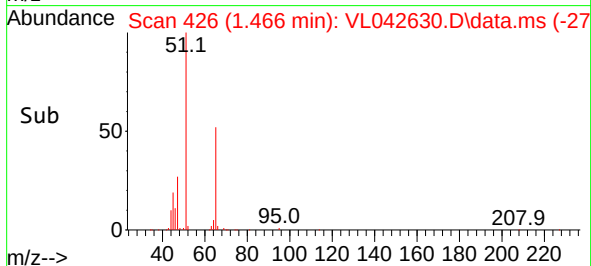
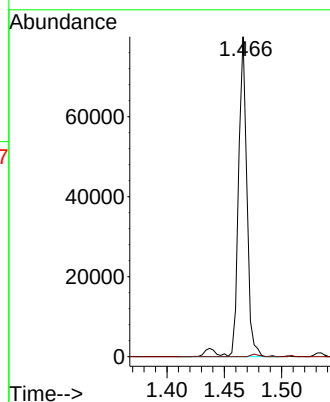
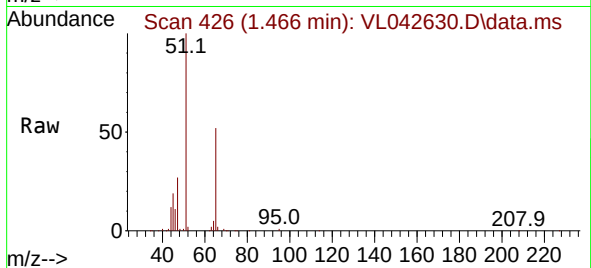




#3
Chlorodifluoromethane
Concen: 2.191 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

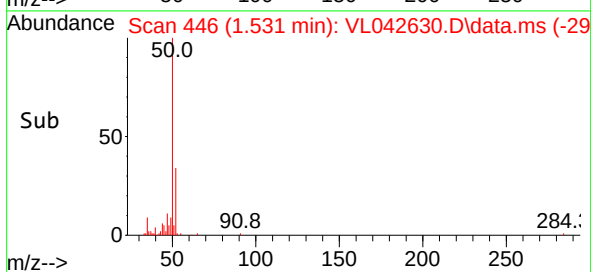
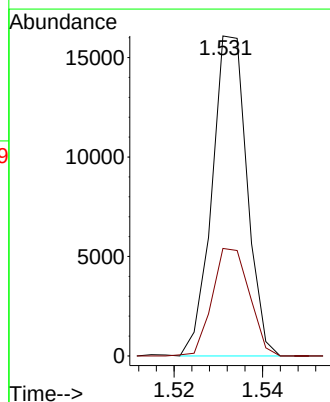
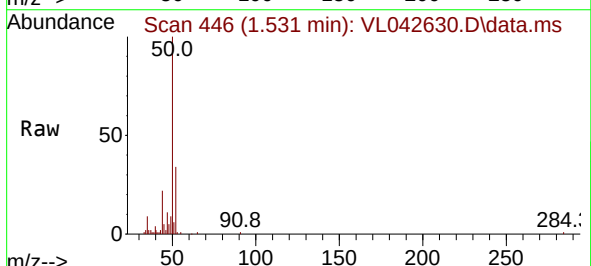
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

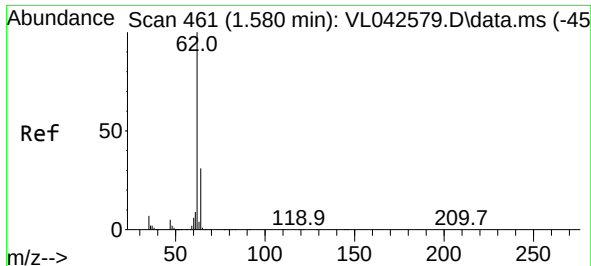
Tgt Ion: 51 Resp: 41208
Ion Ratio Lower Upper
51 100
67 0.7 13.4 20.2#



#4
Chloromethane
Concen: 1.636 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 50 Resp: 8847
Ion Ratio Lower Upper
50 100
52 33.2 25.8 38.6

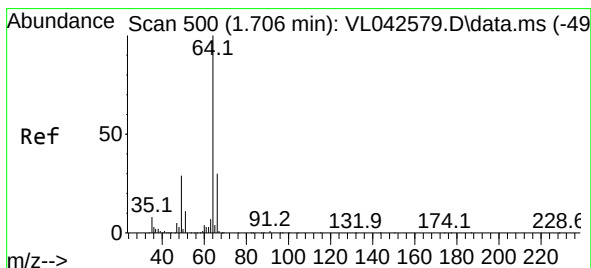
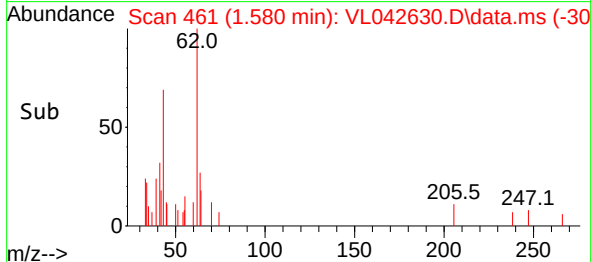
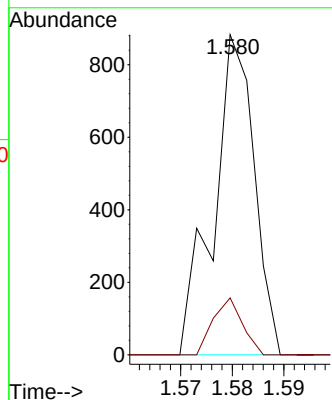
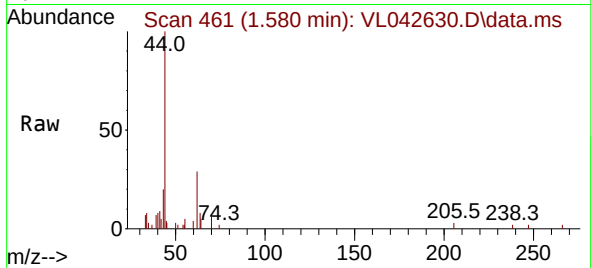




#5
 Vinyl Chloride
 Concen: 0.088 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

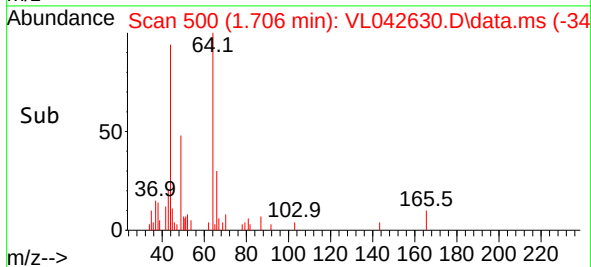
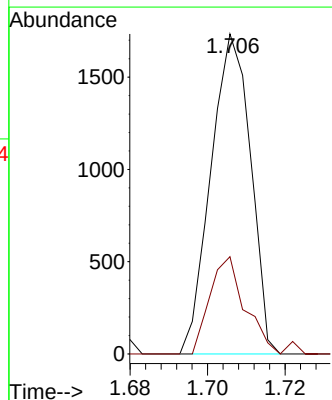
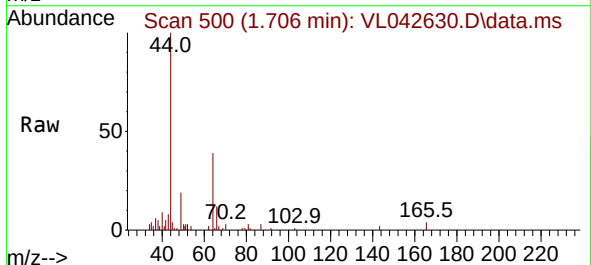
Instrument :
 MSVOA_1
 ClientSampleId :
 115-SG1

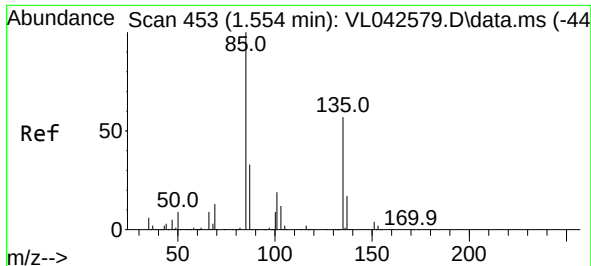
Tgt Ion: 62 Resp: 484
 Ion Ratio Lower Upper
 62 100
 64 17.8 24.9 37.3#



#7
 Chloroethane
 Concen: 0.577 ppbv
 RT: 1.706 min Scan# 500
 Delta R.T. -0.000 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

Tgt Ion: 64 Resp: 1235
 Ion Ratio Lower Upper
 64 100
 66 30.4 24.3 36.5

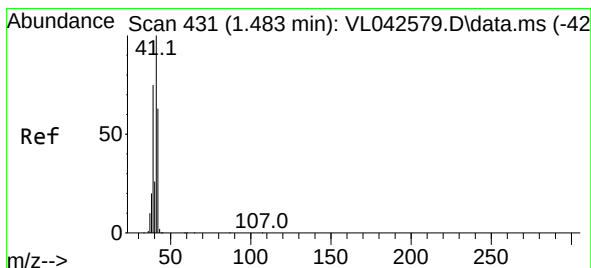
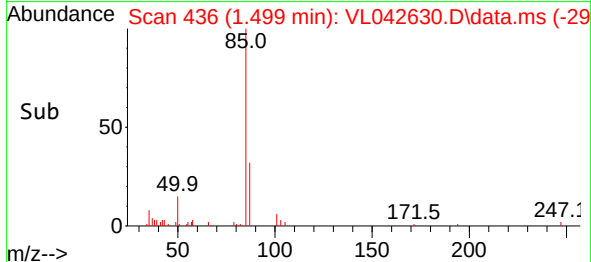
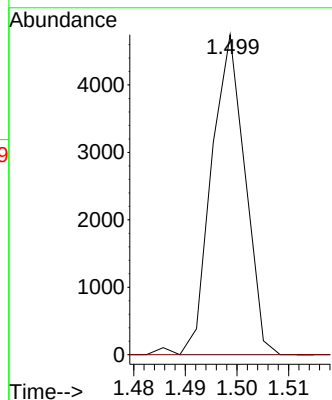
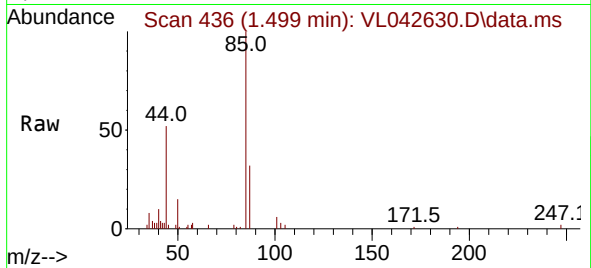




#8
Dichlorotetrafluoroethane
Concen: 0.187 ppbv
RT: 1.499 min Scan# 41
Delta R.T. -0.055 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

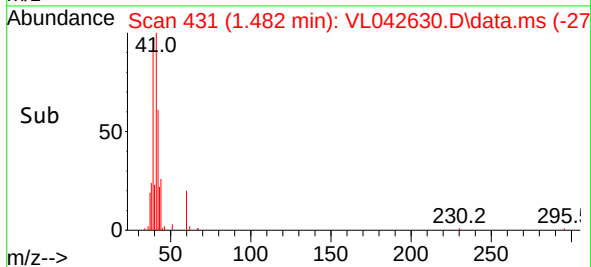
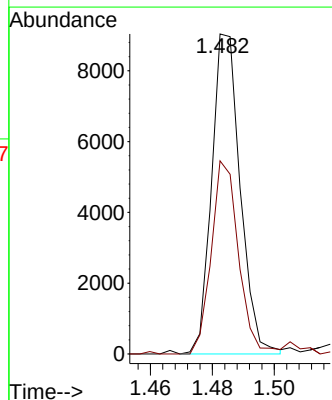
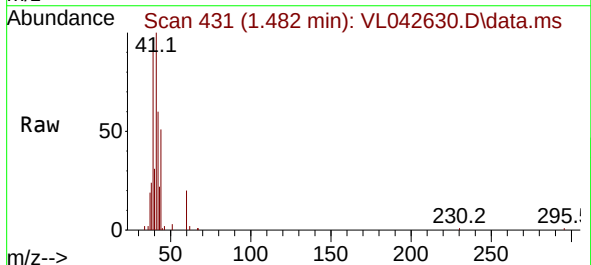
Instrument :
MSVOA_L
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115-SG1

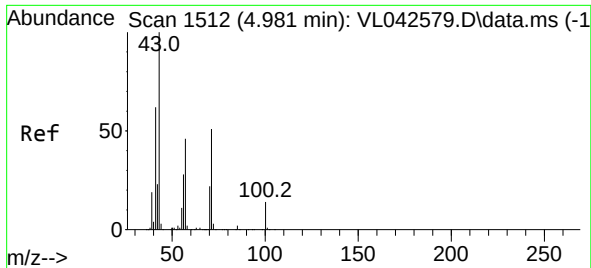
Tgt Ion: 85 Resp: 2128
Ion Ratio Lower Upper
85 100
135 0.5 50.2 75.4#



#9
Propene
Concen: 0.764 ppbv
RT: 1.482 min Scan# 431
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 41 Resp: 5787
Ion Ratio Lower Upper
41 100
42 61.9 53.3 79.9





#10

Heptane

Concen: 0.102 ppbv

RT: 4.984 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_L

ClientSampleId :

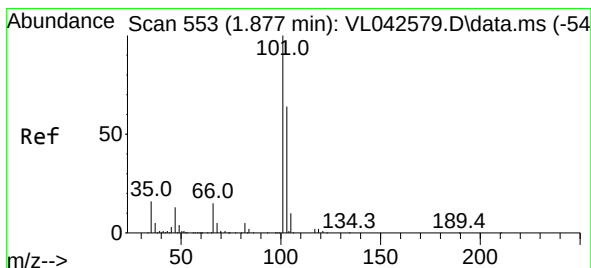
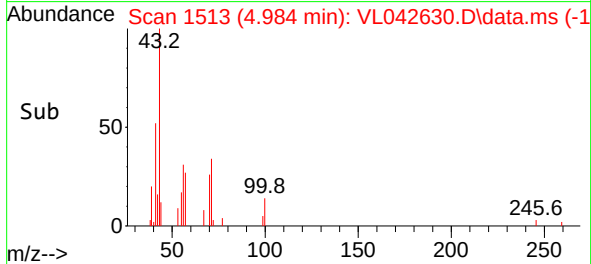
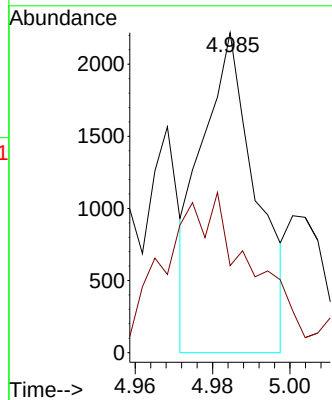
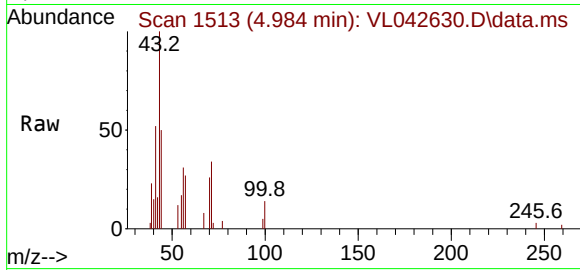
115-SG1

Tgt Ion: 43 Resp: 2169

Ion Ratio Lower Upper

43 100

57 90.6 38.9 58.3#



#11

Trichlorofluoromethane

Concen: 10.574 ppbv

RT: 1.877 min Scan# 553

Delta R.T. -0.000 min

Lab File: VL042630.D

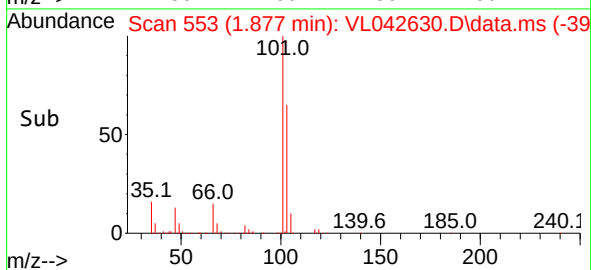
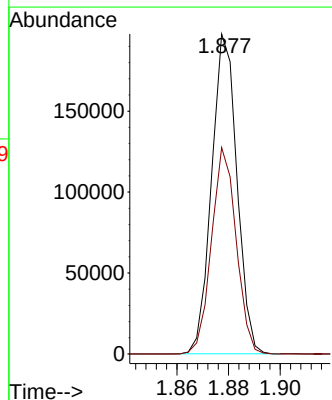
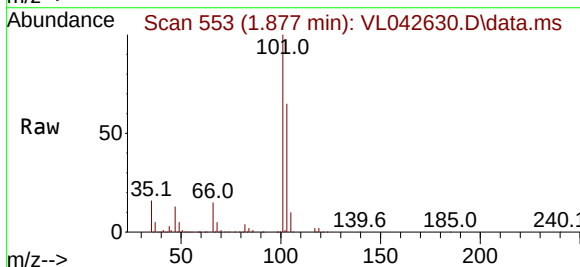
Acq: 16 Jun 2025 15:46

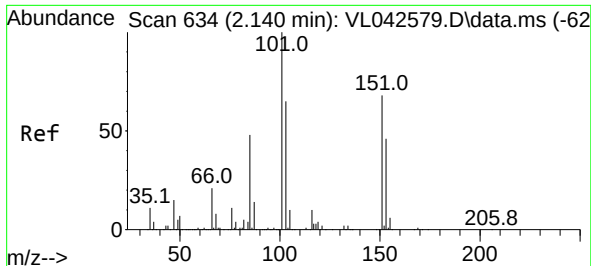
Tgt Ion:101 Resp: 134347

Ion Ratio Lower Upper

101 100

103 64.5 51.5 77.3

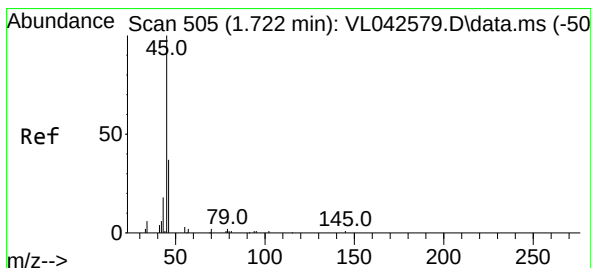
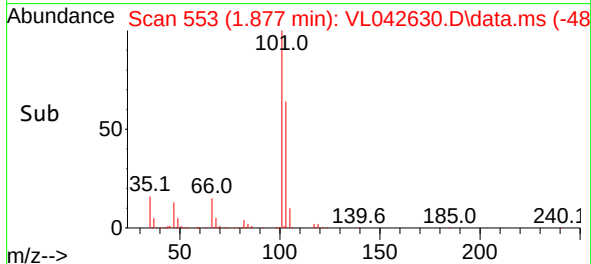
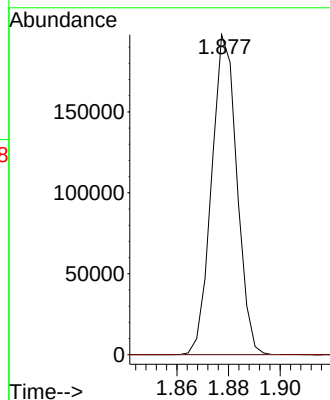
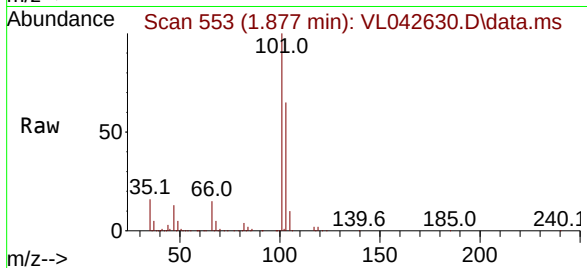




#12
1,1,2-Trichlorotrifluoroethane
Concen: 13.465 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.262 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

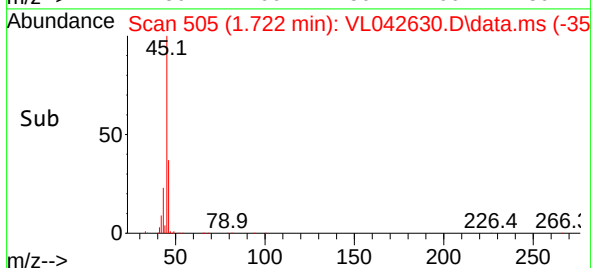
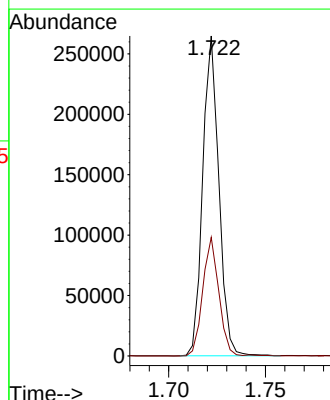
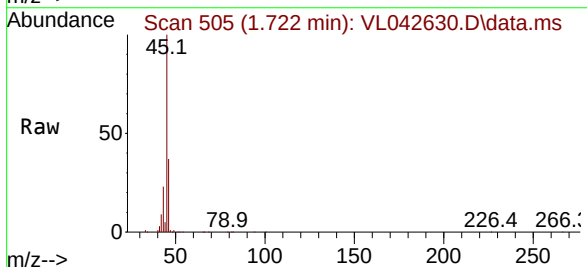
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

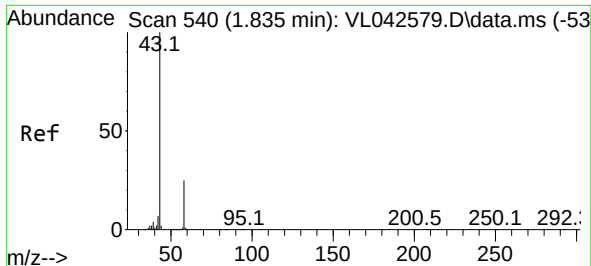
Tgt Ion:101 Resp: 134347
Ion Ratio Lower Upper
101 100
151 0.0 55.3 82.9#



#13
Ethanol
Concen: 170.164 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 45 Resp: 153596
Ion Ratio Lower Upper
45 100
46 37.3 14.5 58.1

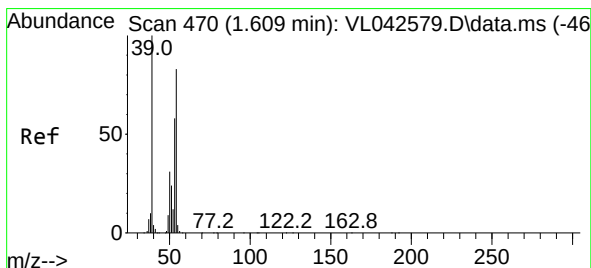
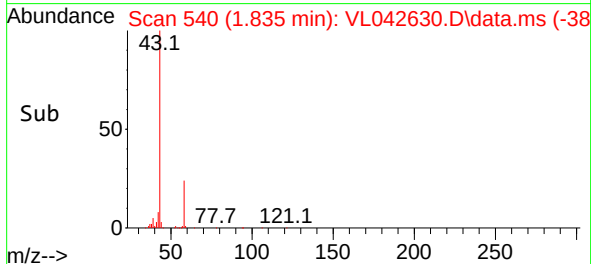
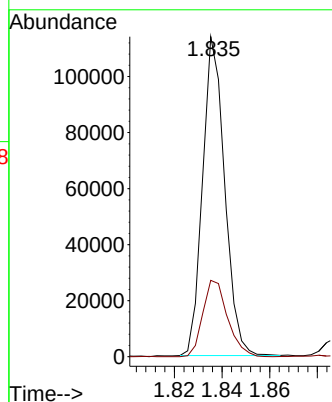
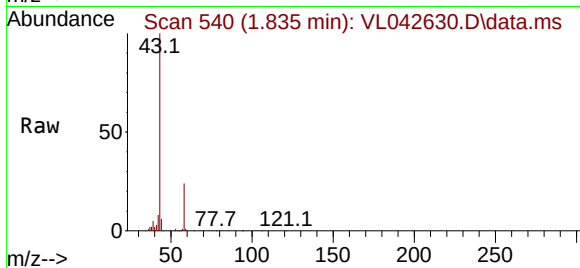




#15
Acetone
Concen: 5.479 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

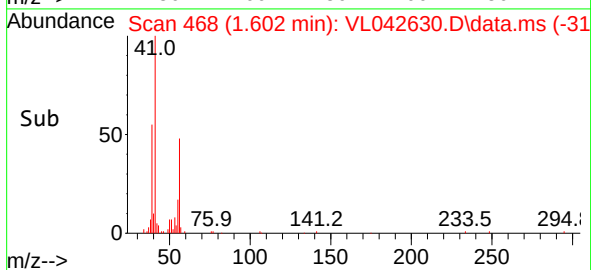
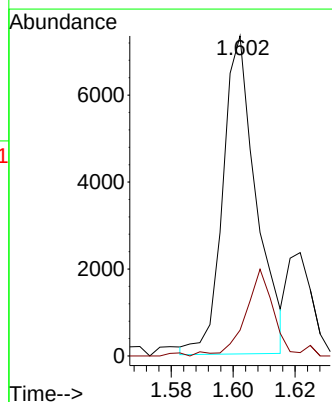
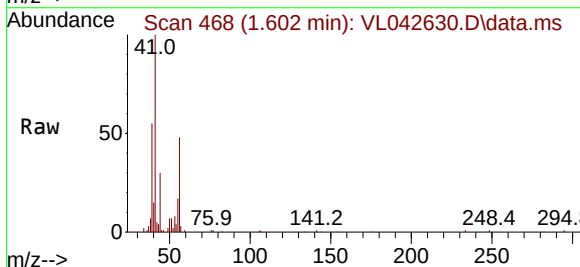
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

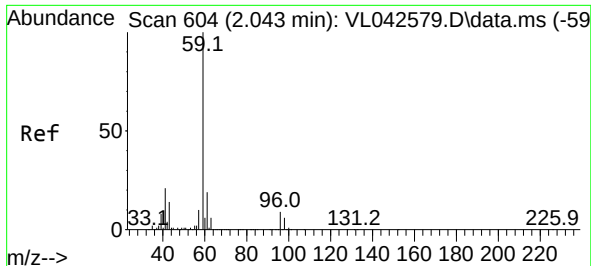
Tgt Ion: 43 Resp: 73330
Ion Ratio Lower Upper
43 100
58 27.0 21.0 31.4



#16
1,3-Butadiene
Concen: 0.864 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.007 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 39 Resp: 5476
Ion Ratio Lower Upper
39 100
54 24.1 57.9 86.9#





#17

tert-Butyl alcohol

Concen: 0.499 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_1

ClientSampleId :

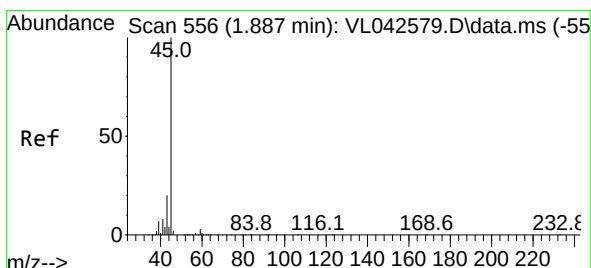
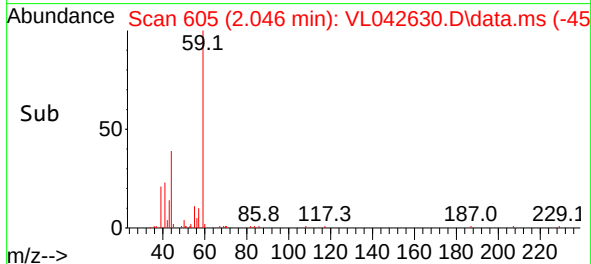
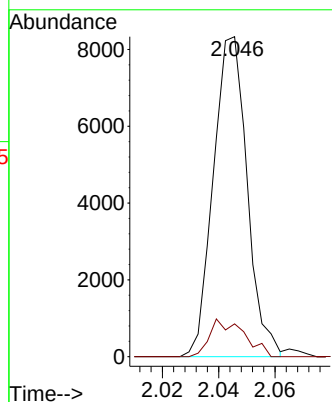
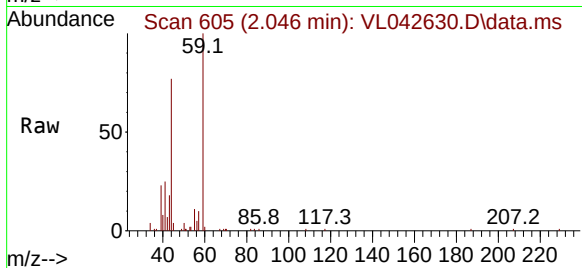
115-SG1

Tgt Ion: 59 Resp: 6954

Ion Ratio Lower Upper

59 100

57 11.9 8.6 12.8



#19

Isopropyl Alcohol

Concen: 2.373 ppbv

RT: 1.887 min Scan# 556

Delta R.T. -0.000 min

Lab File: VL042630.D

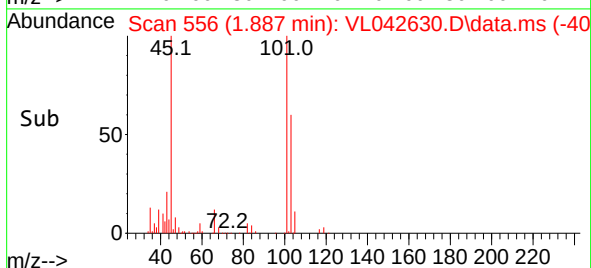
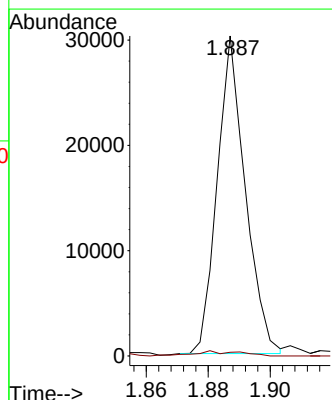
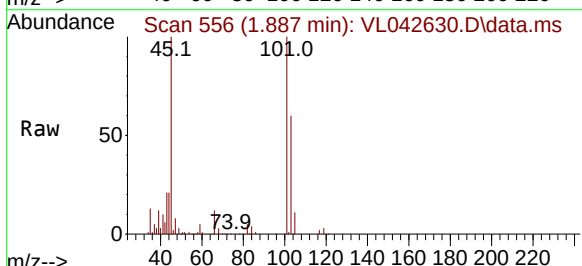
Acq: 16 Jun 2025 15:46

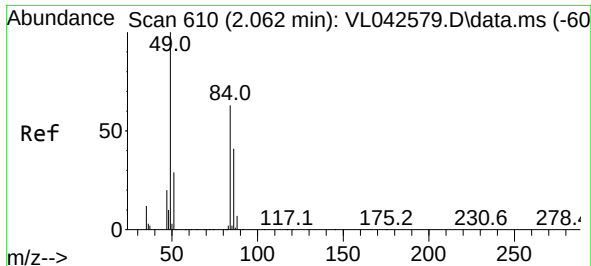
Tgt Ion: 45 Resp: 18985

Ion Ratio Lower Upper

45 100

58 104.2 29.4 44.2#

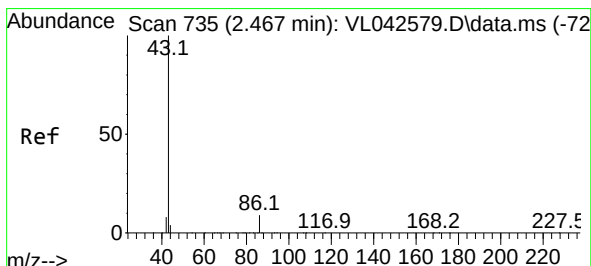
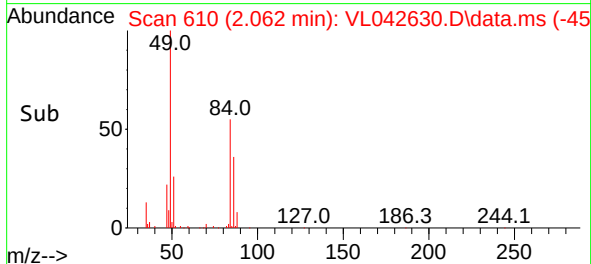
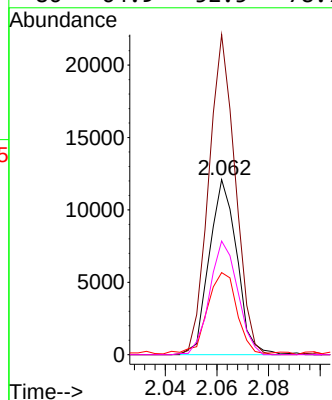
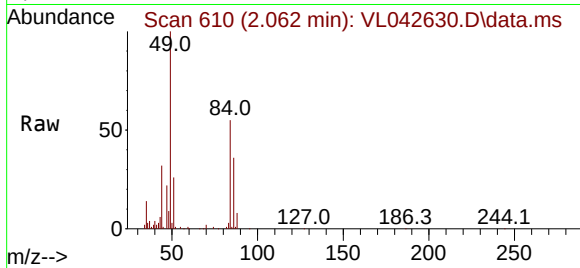




#20
Methylene Chloride
Concen: 2.036 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

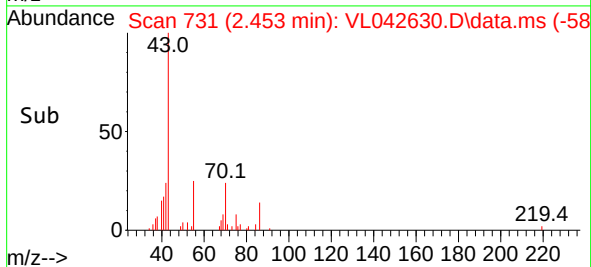
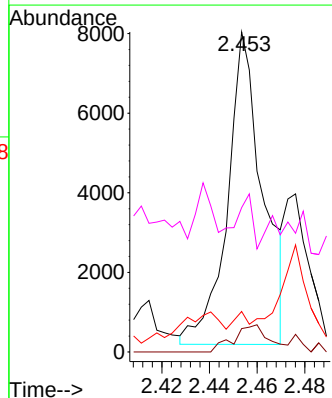
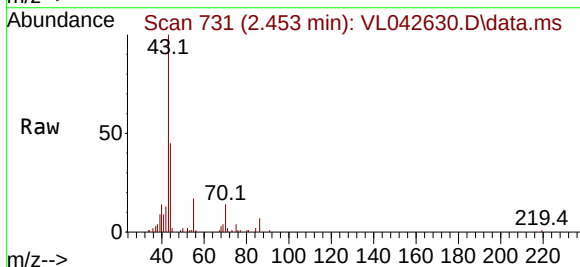
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

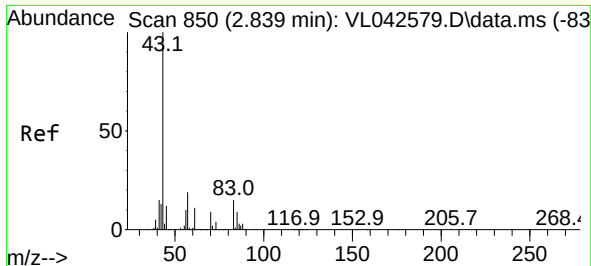
Tgt Ion:	84	Resp:	8992
Ion	Ratio	Lower	Upper
84	100		
49	182.9	128.8	193.2
51	45.6	38.6	57.8
86	64.9	52.5	78.7



#23
Vinyl Acetate
Concen: 0.446 ppbv
RT: 2.453 min Scan# 731
Delta R.T. -0.013 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion:	43	Resp:	8073
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.6	9.8
42	4.4	7.0	10.4#
44	7.1	4.2	6.2#

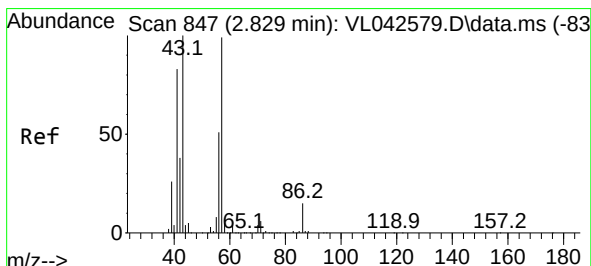
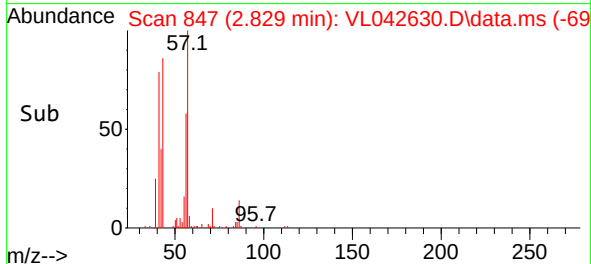
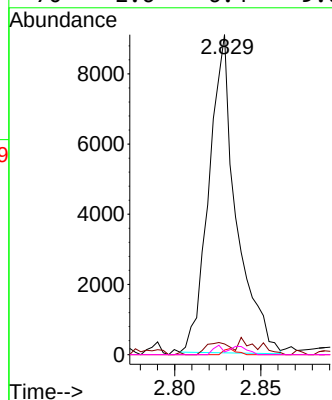
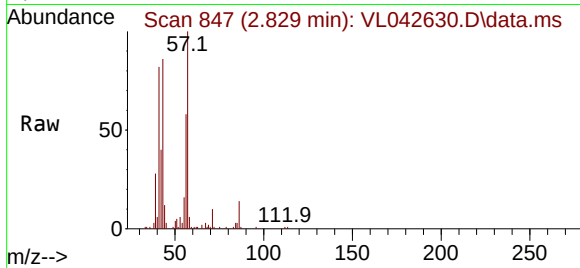




#25
Ethyl Acetate
Concen: 0.273 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.010 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

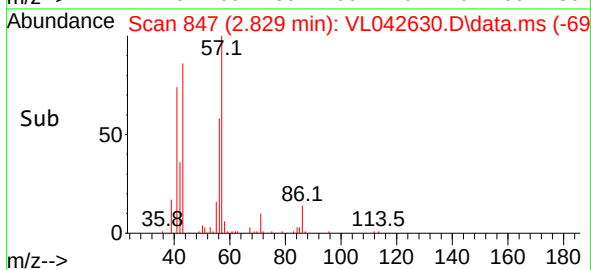
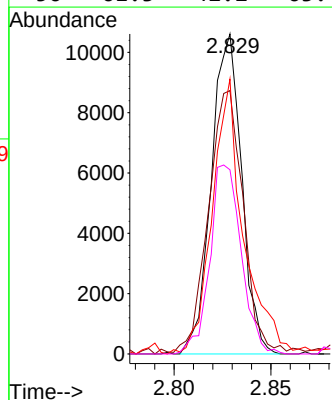
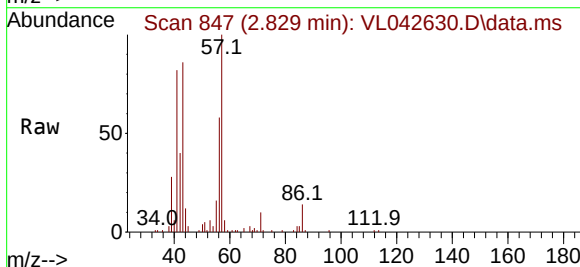
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

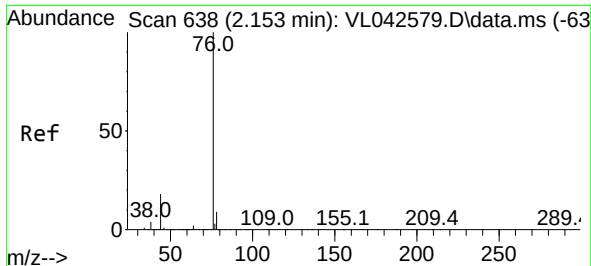
Tgt Ion: 43	Resp: 10003
Ion Ratio	Lower Upper
43 100	
45 7.9	8.2 12.2#
61 0.8	7.1 10.7#
70 2.6	6.4 9.6#



#26
Hexane
Concen: 0.694 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 57	Resp: 11551
Ion Ratio	Lower Upper
57 100	
41 91.2	70.6 106.0
43 87.1	181.1 271.7#
56 61.3	42.2 63.4

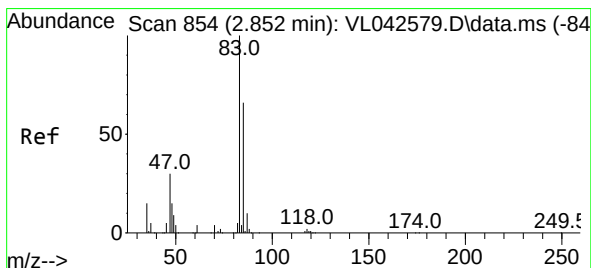
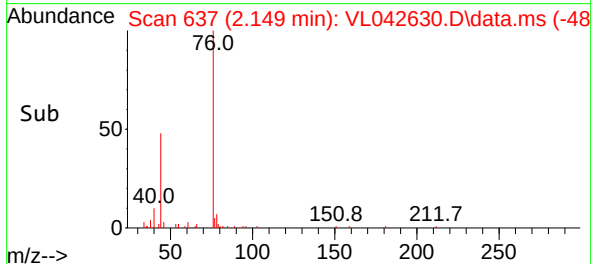
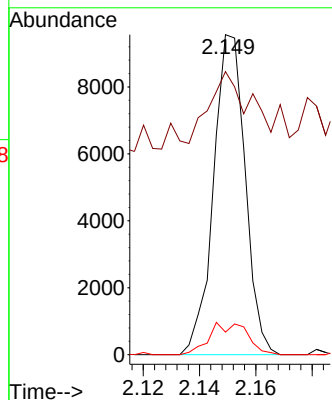
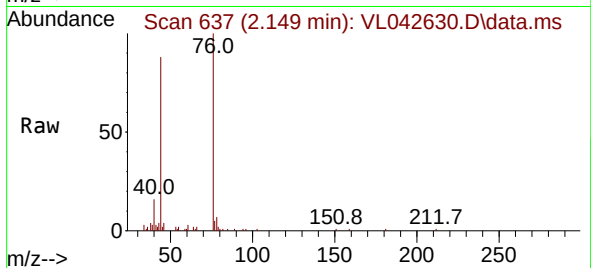




#27
Carbon Disulfide
Concen: 0.586 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

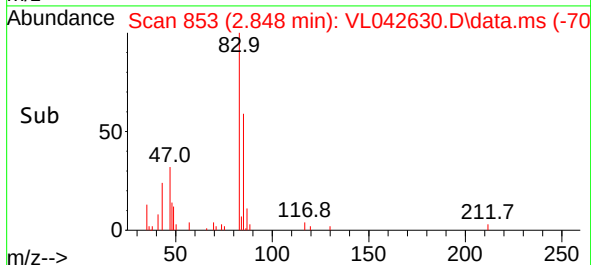
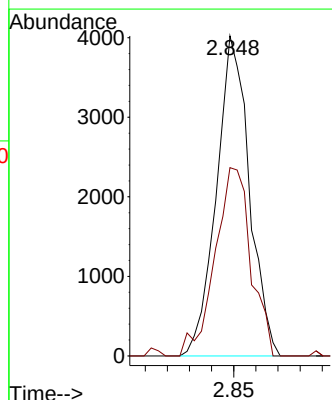
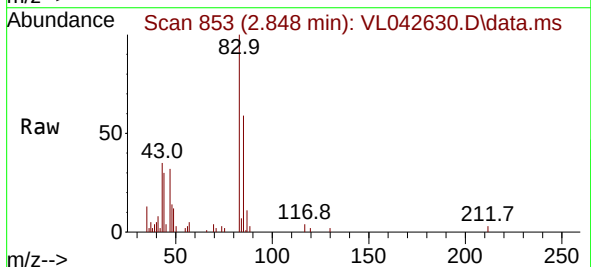
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

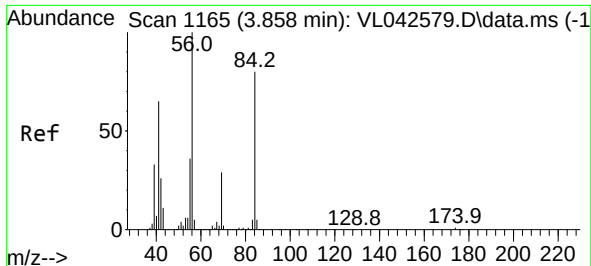
Tgt Ion: 76 Resp: 7484
Ion Ratio Lower Upper
76 100
44 189.6 21.3 31.9#
78 12.1 9.4 14.0



#29
Chloroform
Concen: 0.192 ppbv
RT: 2.848 min Scan# 853
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 83 Resp: 4149
Ion Ratio Lower Upper
83 100
85 58.8 52.8 79.2

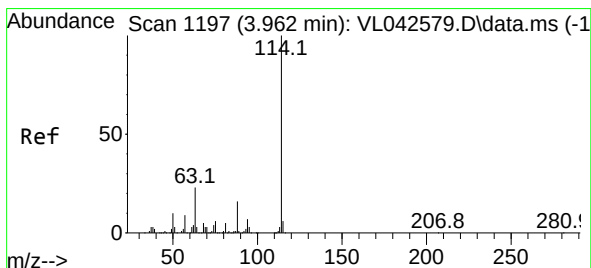
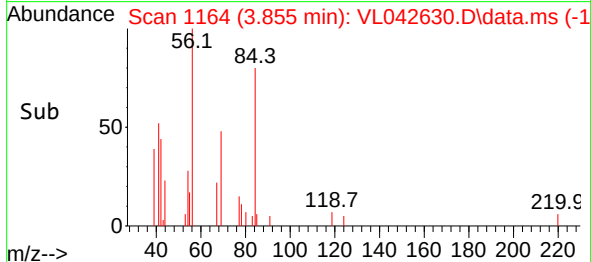
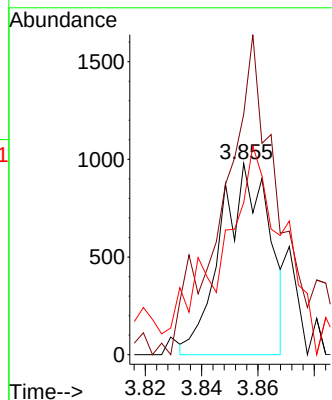
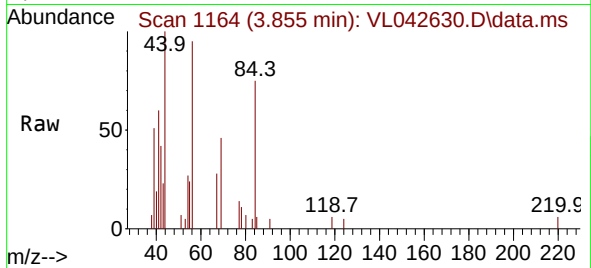




#30
Cyclohexane
Concen: 0.085 ppbv
RT: 3.855 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

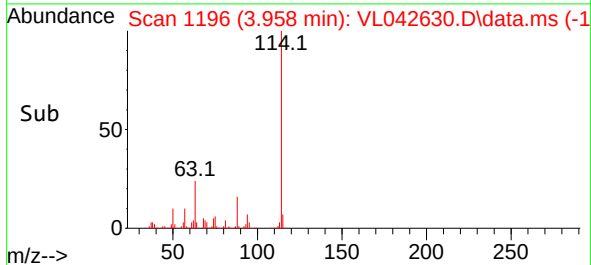
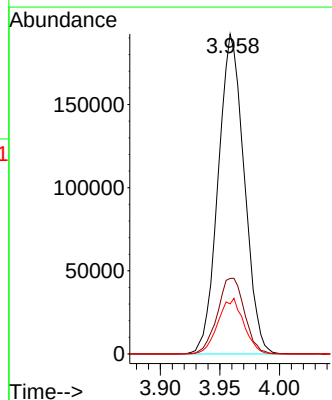
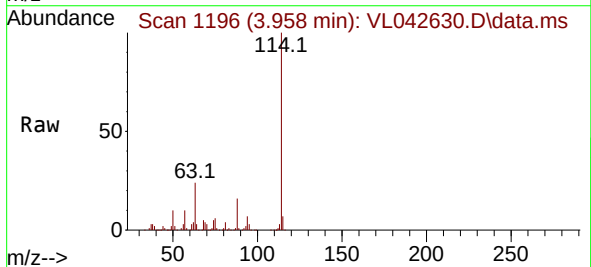
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

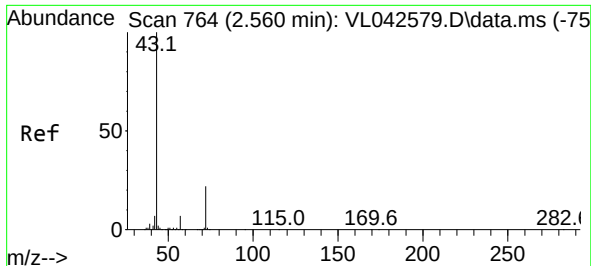
Tgt Ion: 84 Resp: 1171
Ion Ratio Lower Upper
84 100
56 197.2 103.7 155.5#
41 129.7 65.1 97.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 114 Resp: 291956
Ion Ratio Lower Upper
114 100
63 24.7 19.0 28.6
88 17.2 13.6 20.4

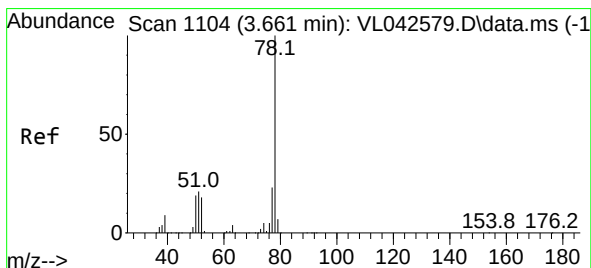
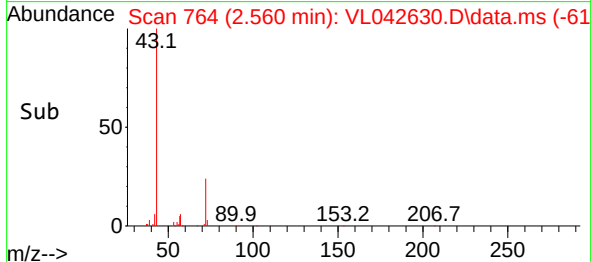
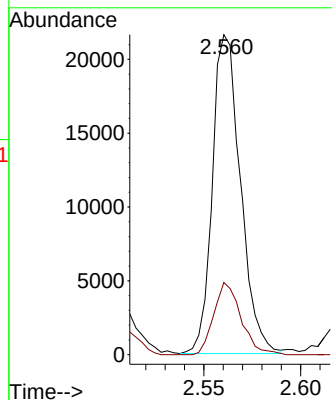
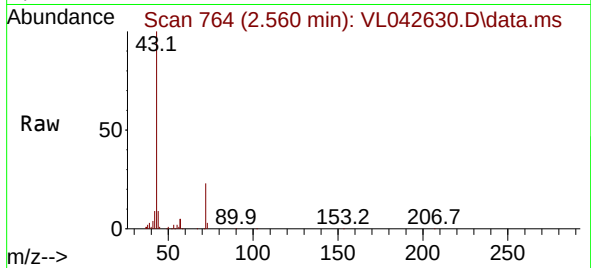




#34
2-Butanone
Concen: 1.046 ppbv
RT: 2.560 min Scan# 764
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

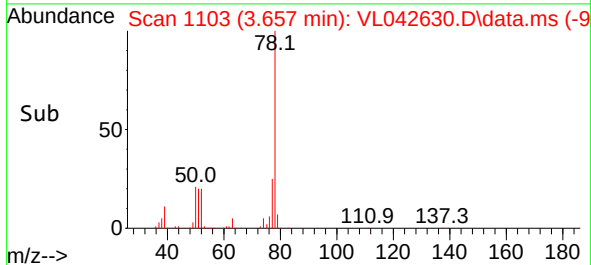
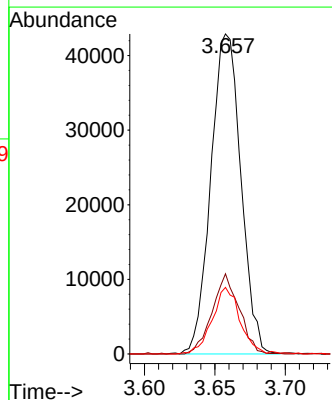
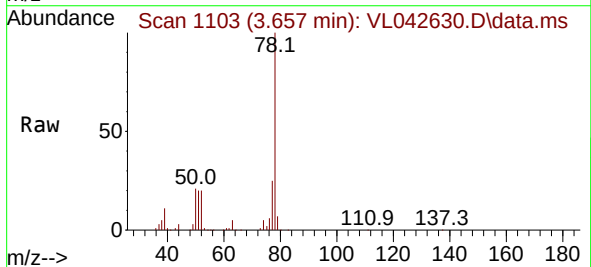
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

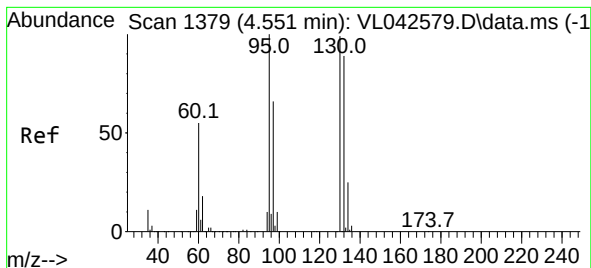
Tgt Ion: 43 Resp: 21779
Ion Ratio Lower Upper
43 100
72 22.0 17.7 26.5



#36
Benzene
Concen: 2.220 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 78 Resp: 63818
Ion Ratio Lower Upper
78 100
77 25.1 18.2 27.2
50 20.7 15.2 22.8





#38

Trichloroethene

Concen: 1.230 ppbv

RT: 4.548 min Scan# 1197

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_1

ClientSampleId :

115-SG1

Tgt Ion:130 Resp: 15028

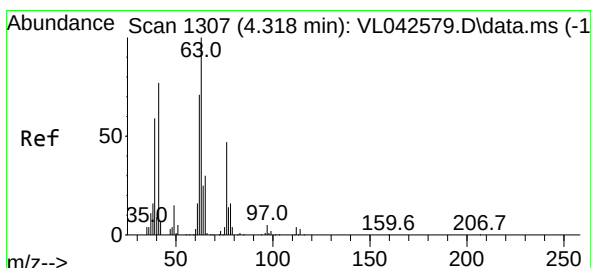
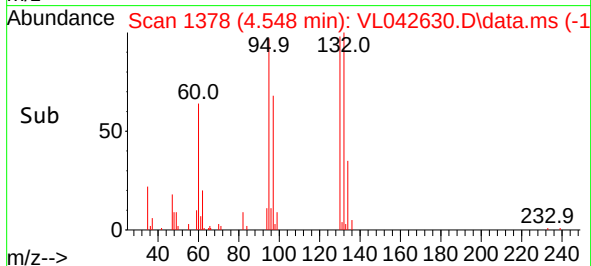
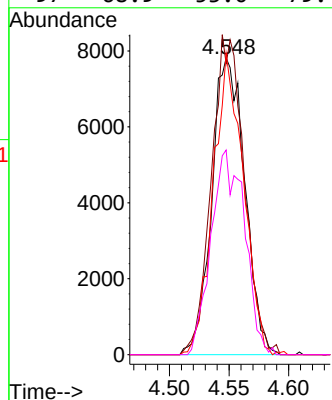
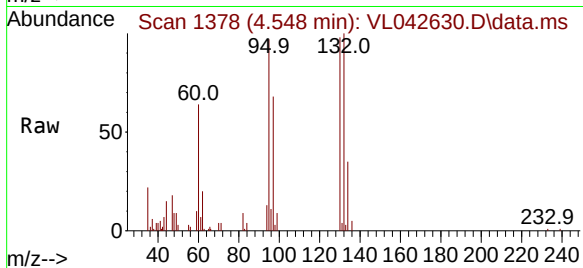
Ion Ratio Lower Upper

130 100

95 98.1 80.6 121.0

132 101.5 71.8 107.6

97 68.9 53.0 79.4



#39

1,2-Dichloropropane

Concen: 6.778 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.356 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

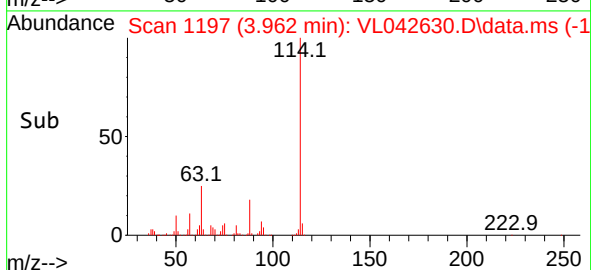
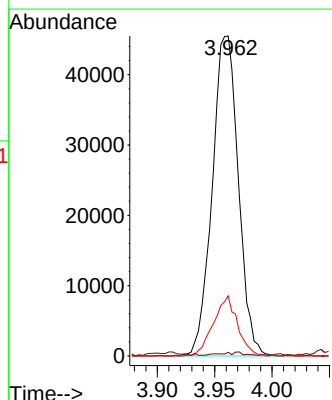
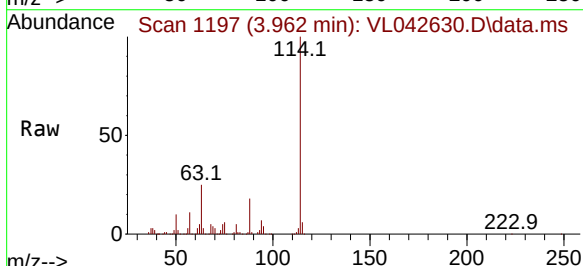
Tgt Ion: 63 Resp: 72063

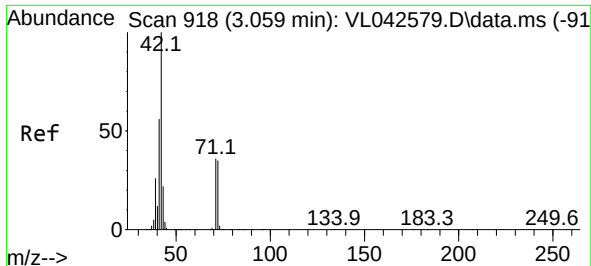
Ion Ratio Lower Upper

63 100

41 0.6 61.8 92.6#

62 18.8 56.6 85.0#

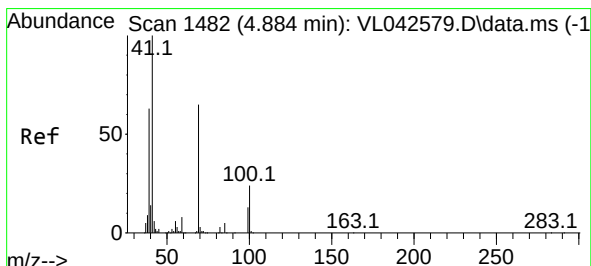
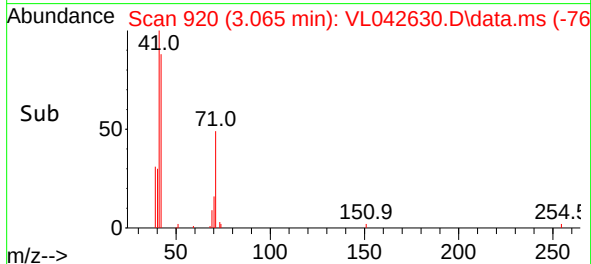
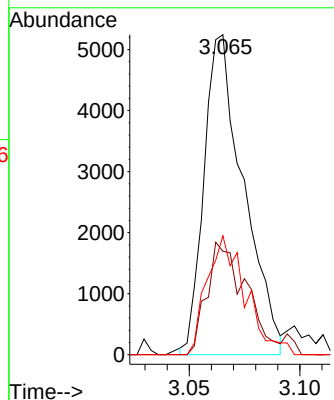
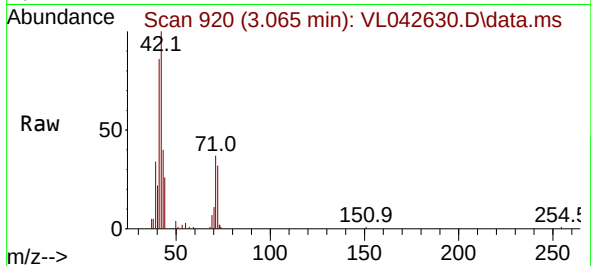




#41
Tetrahydrofuran
Concen: 0.534 ppbv
RT: 3.065 min Scan# 918
Delta R.T. 0.006 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

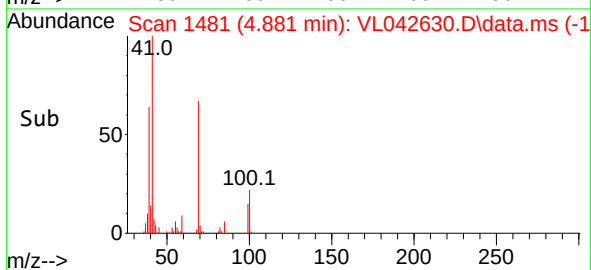
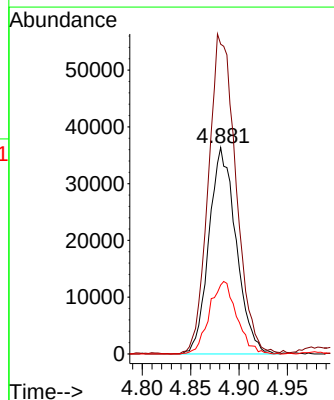
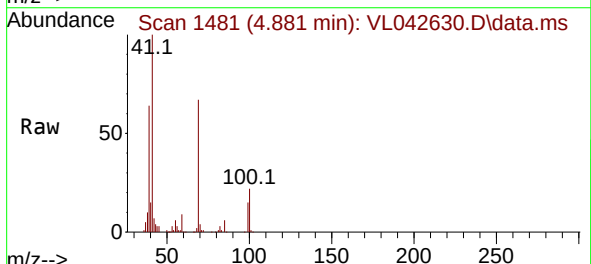
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

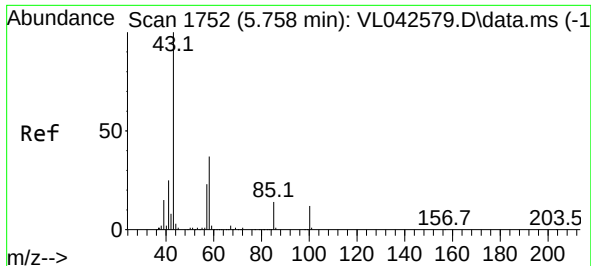
Tgt Ion:	42	Resp:	6513
Ion	Ratio	Lower	Upper
42	100		
72	36.7	28.9	43.3
71	36.4	28.5	42.7



#43
Methyl Methacrylate
Concen: 6.364 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion:	69	Resp:	71010
Ion	Ratio	Lower	Upper
69	100		
41	156.9	124.6	187.0
100	35.6	29.9	44.9

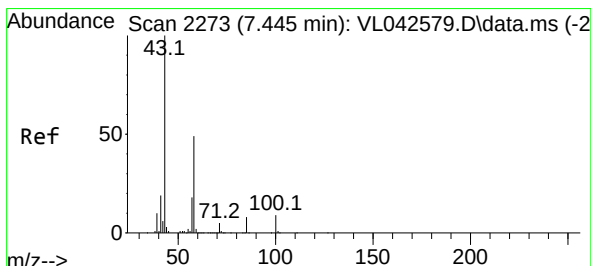
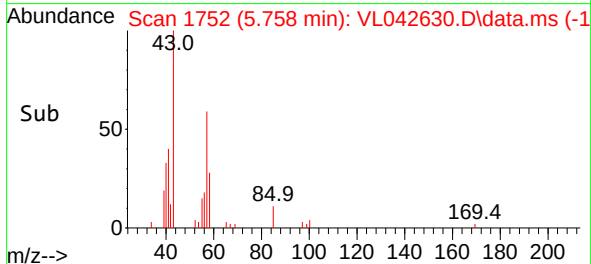
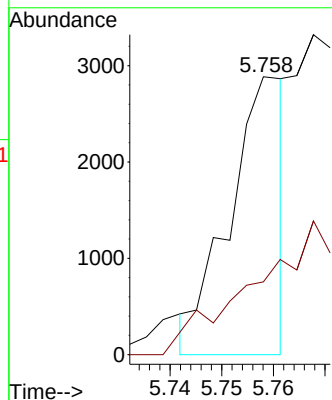
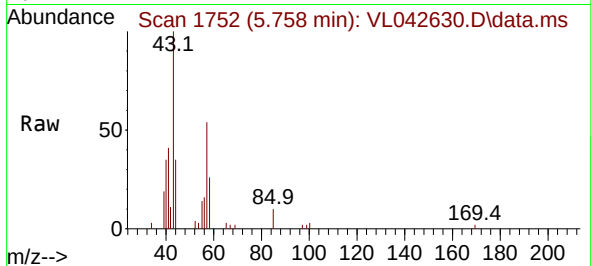




#50
4-Methyl-2-Pentanone
Concen: 0.074 ppbv
RT: 5.758 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

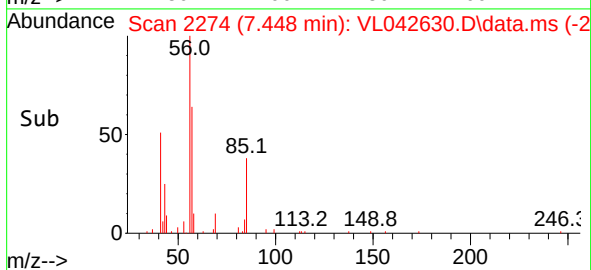
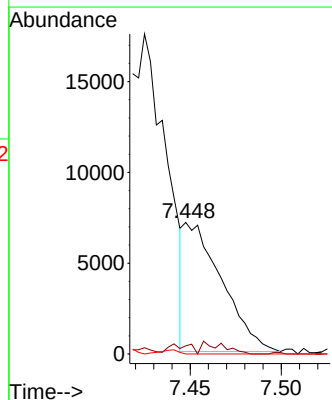
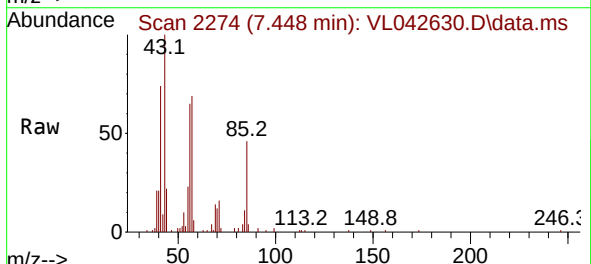
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

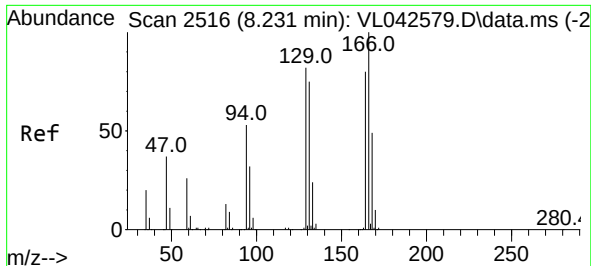
Tgt Ion: 43 Resp: 2138
Ion Ratio Lower Upper
43 100
58 0.0 28.3 42.5#



#51
2-Hexanone
Concen: 0.448 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 43 Resp: 10260
Ion Ratio Lower Upper
43 100
58 7.0 39.9 59.9#
98 0.0 0.1 0.1#

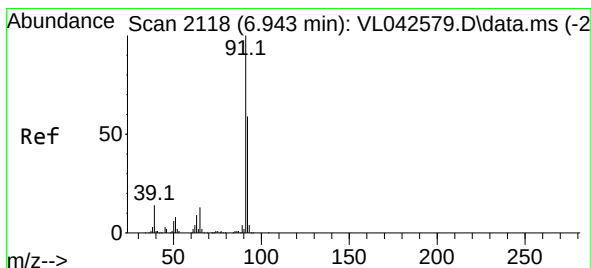
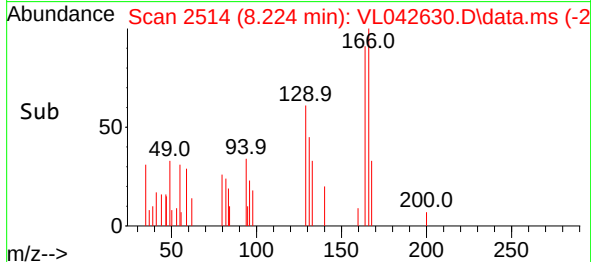
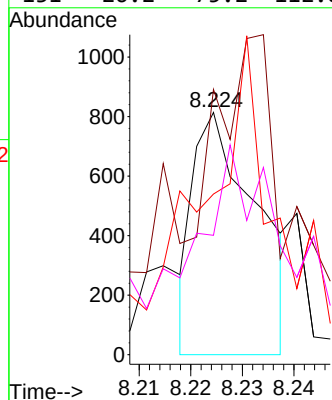
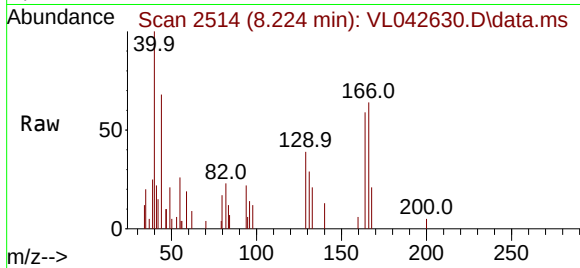




#52
Tetrachloroethene
Concen: 0.064 ppbv
RT: 8.224 min Scan# 2116
Delta R.T. -0.007 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

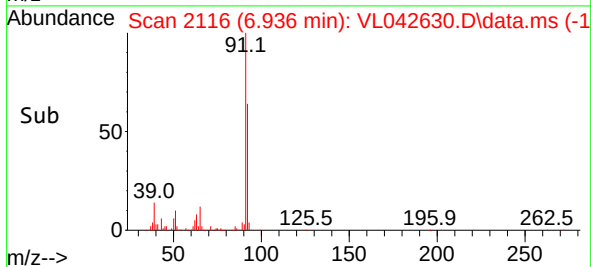
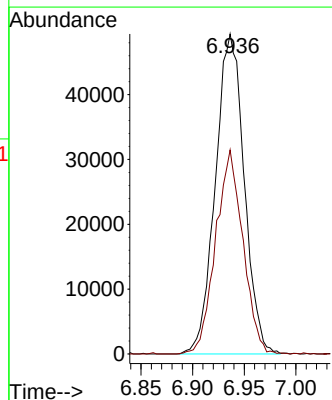
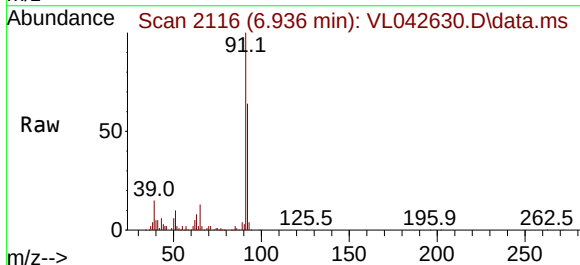
Instrument :
MSVOA_L
ClientSampleId :
115-SG1

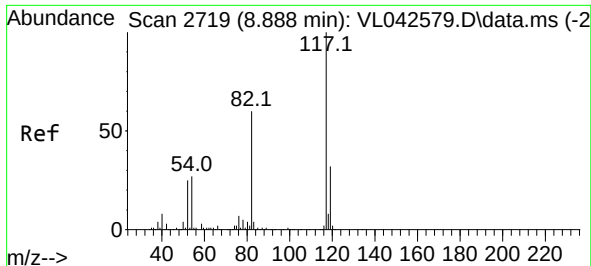
Tgt Ion:164 Resp: 689
Ion Ratio Lower Upper
164 100
166 104.2 100.0 150.0
129 14.9 82.2 123.4#
131 26.2 75.2 112.8#



#53
Toluene
Concen: 2.880 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.007 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion: 91 Resp: 95713
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.4

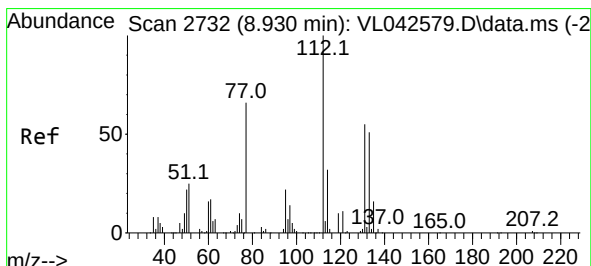
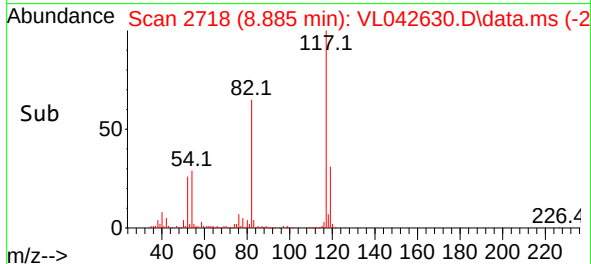
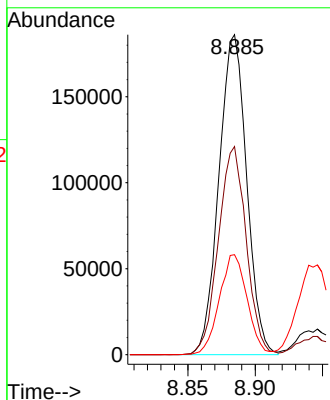
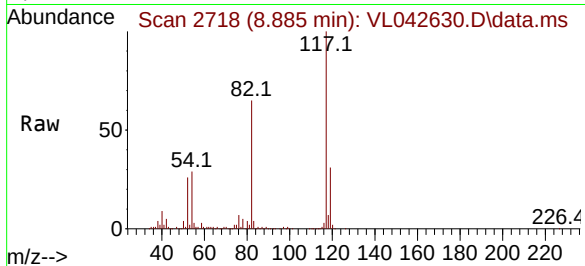




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2115
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

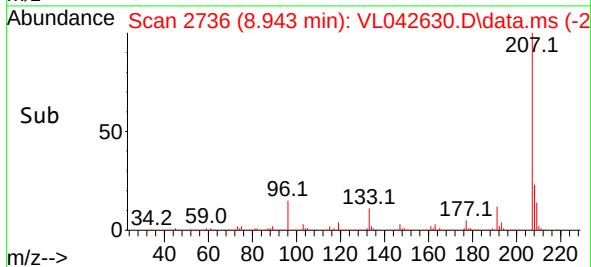
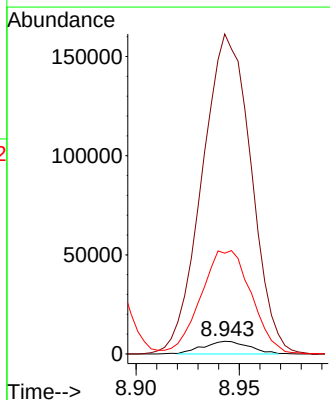
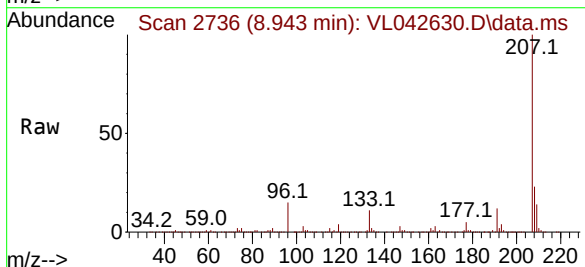
Instrument :
MSVOA_1
ClientSampleId :
115-SG1

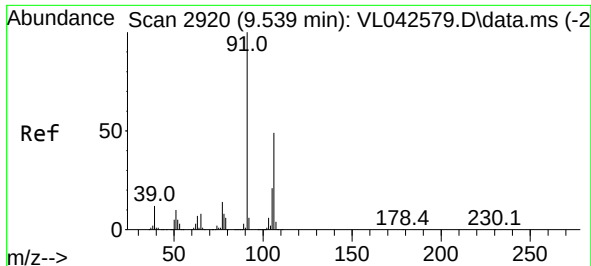
Tgt Ion:117 Resp: 266931
Ion Ratio Lower Upper
117 100
82 65.1 51.2 76.8
119 31.4 26.3 39.5



#56
1,1,1,2-Tetrachloroethane
Concen: 0.738 ppbv
RT: 8.943 min Scan# 2736
Delta R.T. 0.013 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion:131 Resp: 9904
Ion Ratio Lower Upper
131 100
133 2694.2 75.0 112.6#
119 897.4 50.8 76.2#





#59

m/p-Xylene

Concen: 0.182 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_1

ClientSampleId :

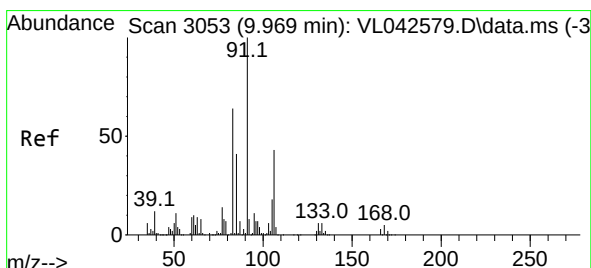
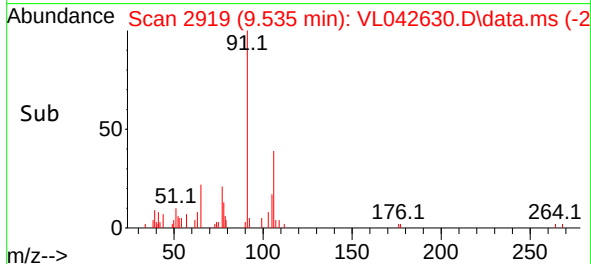
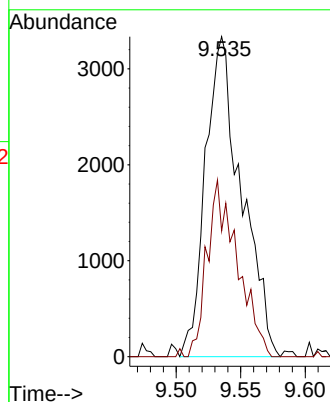
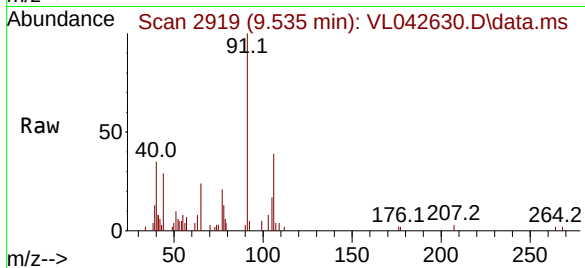
115-SG1

Tgt Ion: 91 Resp: 6496

Ion Ratio Lower Upper

91 100

106 46.6 38.8 58.2



#60

o-Xylene

Concen: 0.183 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.434 min

Lab File: VL042630.D

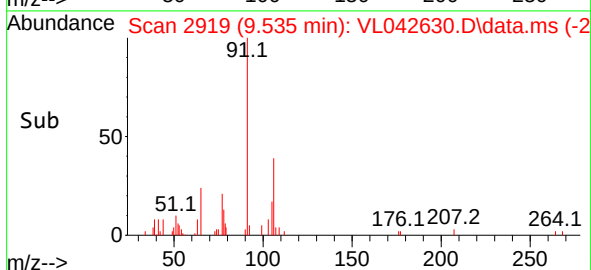
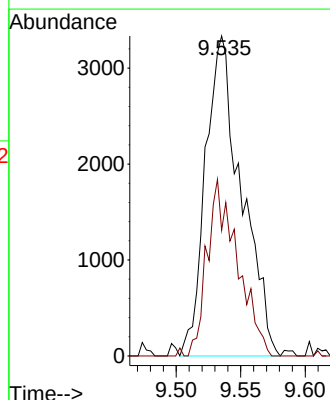
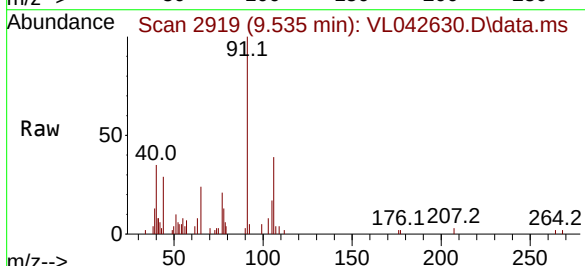
Acq: 16 Jun 2025 15:46

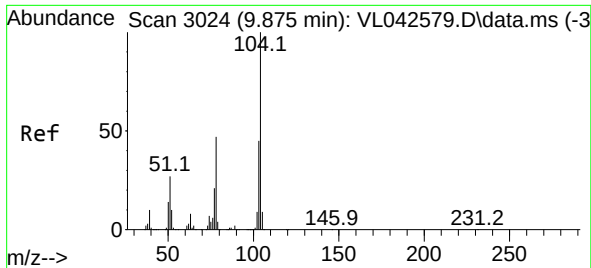
Tgt Ion: 91 Resp: 6496

Ion Ratio Lower Upper

91 100

106 46.6 22.9 68.5





#61

Styrene

Concen: 0.122 ppbv

RT: 9.875 min Scan# 3024

Delta R.T. -0.000 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_L

ClientSampleId :

115-SG1

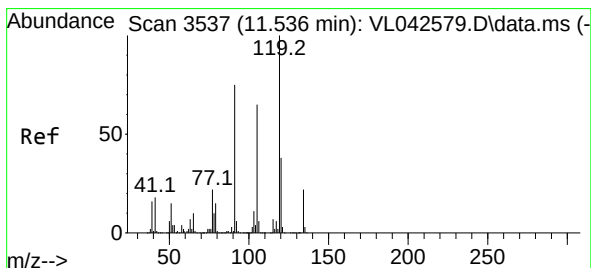
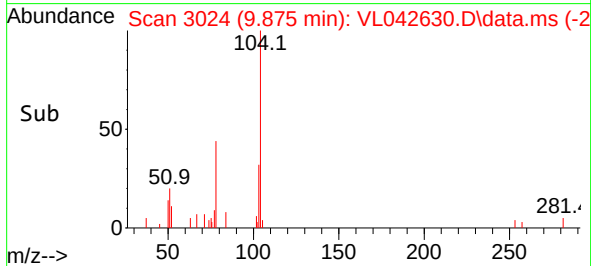
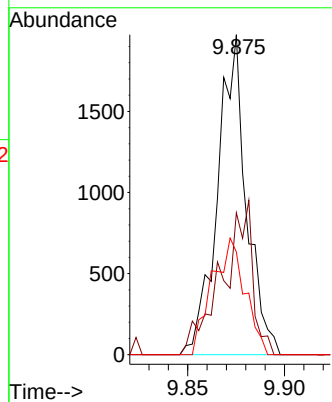
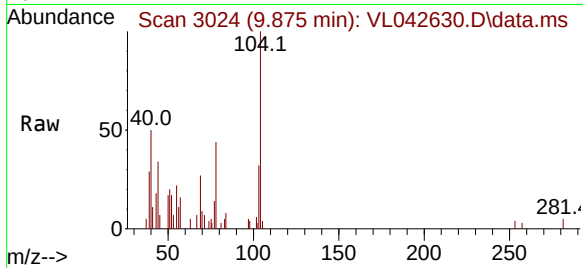
Tgt Ion:104 Resp: 2053

Ion Ratio Lower Upper

104 100

78 50.7 38.2 57.4

103 41.4 36.7 55.1



#65

tert-Butylbenzene

Concen: 3.249 ppbv

RT: 11.788 min Scan# 3615

Delta R.T. 0.252 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

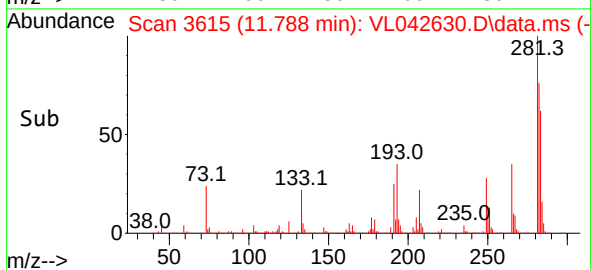
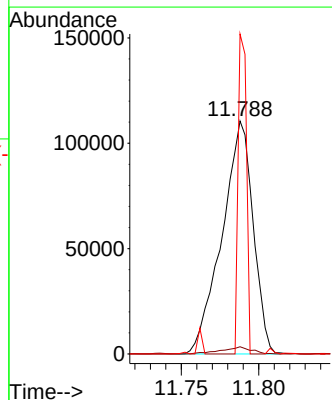
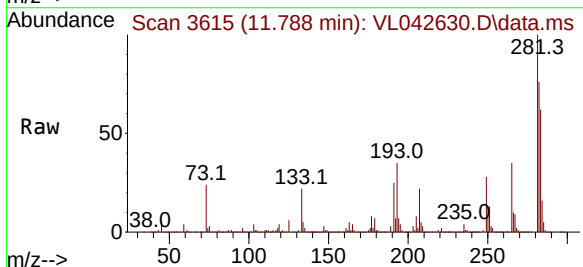
Tgt Ion:119 Resp: 154788

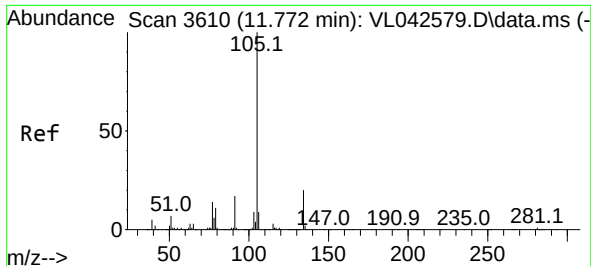
Ion Ratio Lower Upper

119 100

91 3.1 61.1 91.7#

134 37.4 17.4 26.2#

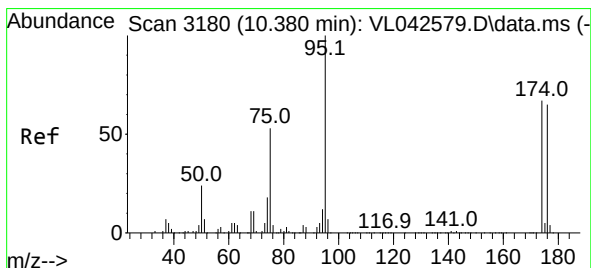
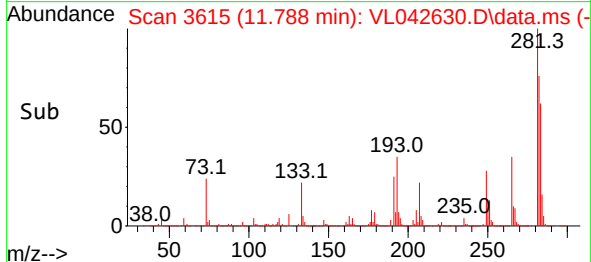
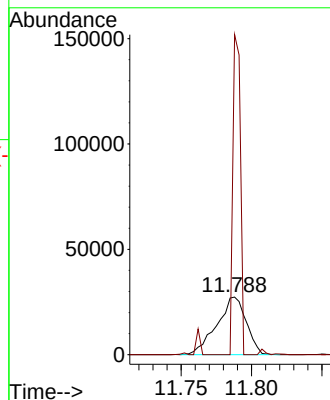
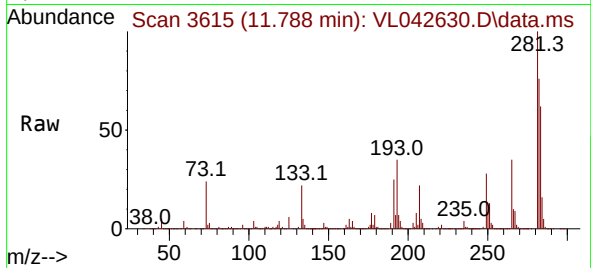




#67
 sec-Butylbenzene
 Concen: 0.594 ppbv
 RT: 11.788 min Scan# 30
 Delta R.T. 0.016 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

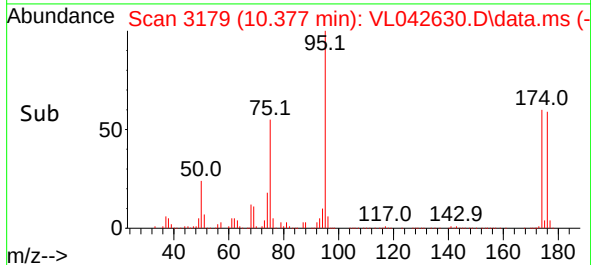
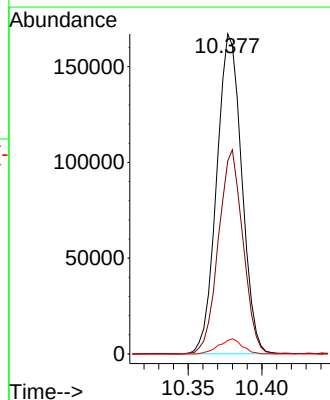
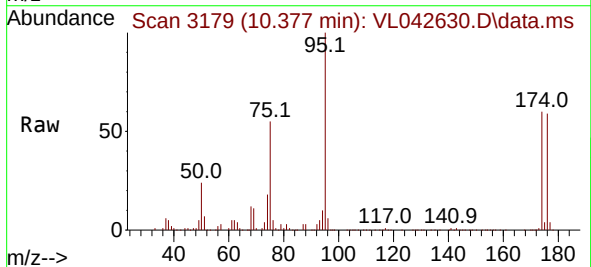
Instrument :
 MSVOA_L
 ClientSampleId :
 115-SG1

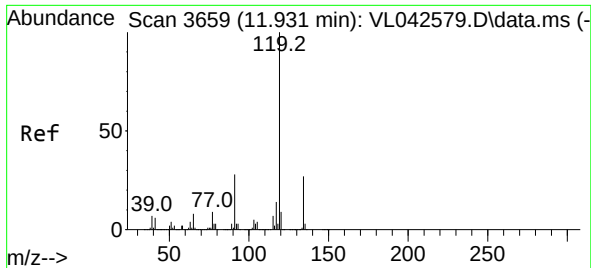
Tgt Ion:105 Resp: 39796
 Ion Ratio Lower Upper
 105 100
 134 152.1 15.8 23.6#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.860 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

Tgt Ion: 95 Resp: 197287
 Ion Ratio Lower Upper
 95 100
 174 62.9 53.1 79.7
 175 4.4 4.2 6.2

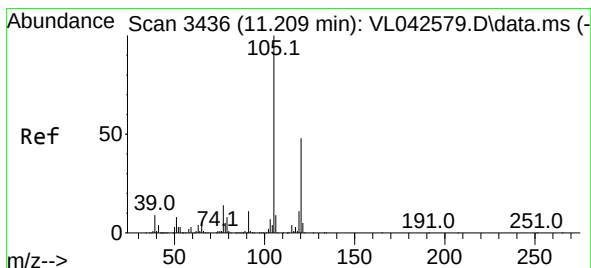
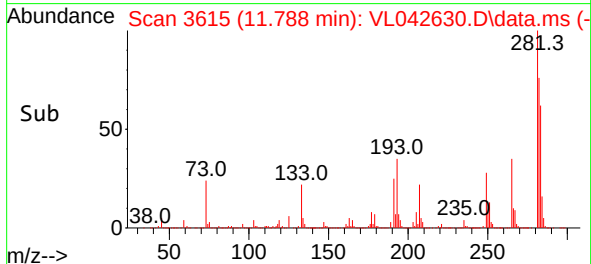
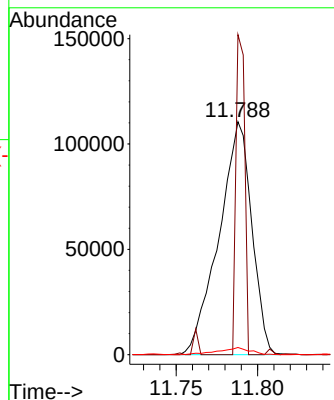
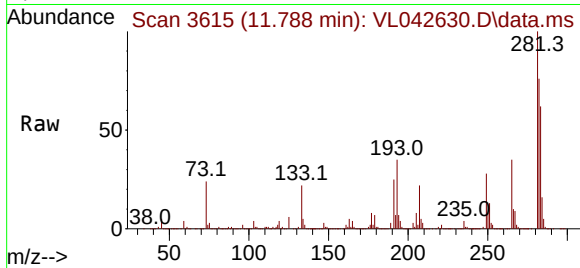




#69
 p-Isopropyltoluene
 Concen: 2.757 ppbv
 RT: 11.788 min Scan# 3615
 Delta R.T. -0.143 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

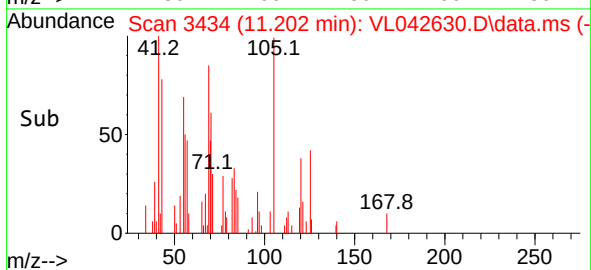
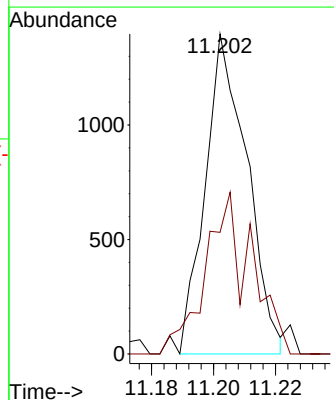
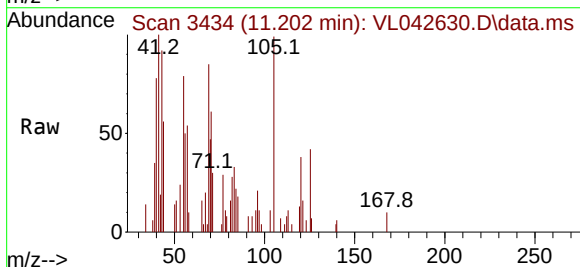
Instrument :
 MSVOA_L
 ClientSampleId :
 115-SG1

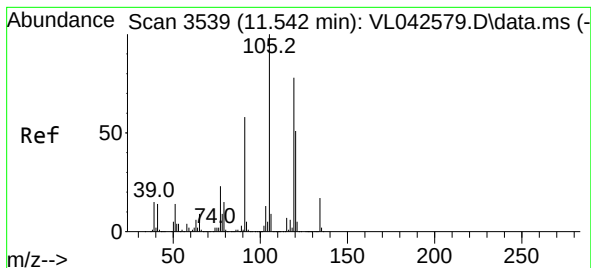
Tgt Ion:119 Resp: 154668
 Ion Ratio Lower Upper
 119 100
 134 0.0 21.1 31.7#
 91 2.9 21.9 32.9#



#73
 1,3,5-Trimethylbenzene
 Concen: 0.036 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. -0.007 min
 Lab File: VL042630.D
 Acq: 16 Jun 2025 15:46

Tgt Ion:105 Resp: 1309
 Ion Ratio Lower Upper
 105 100
 120 30.3 38.8 58.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.090 ppbv

RT: 11.539 min Scan# 3539

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_L

ClientSampleId :

115-SG1

Tgt Ion:105 Resp: 3643

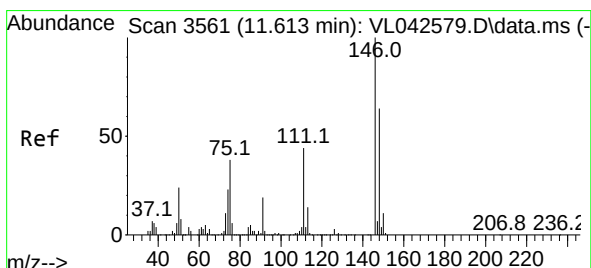
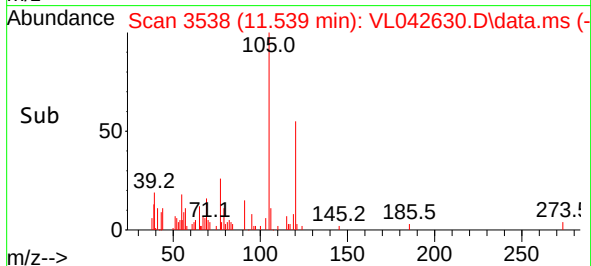
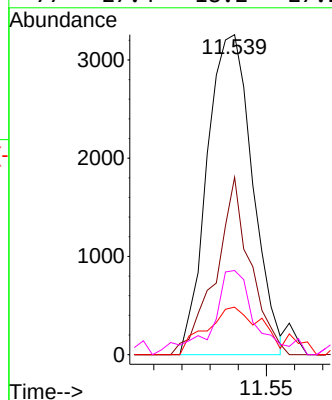
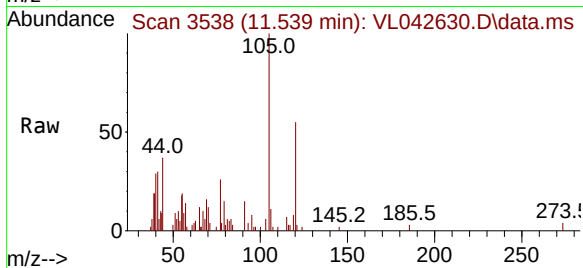
Ion Ratio Lower Upper

105 100

120 52.1 40.8 61.2

91 14.8 46.8 70.2#

77 27.4 18.2 27.2#



#75

1,3-Dichlorobenzene

Concen: 0.096 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.007 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

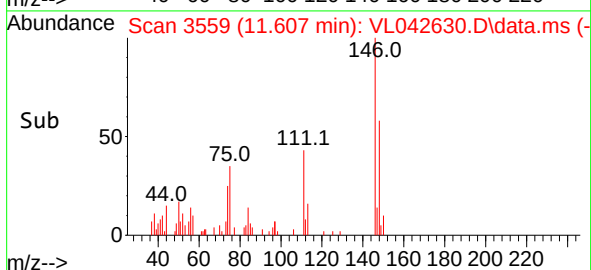
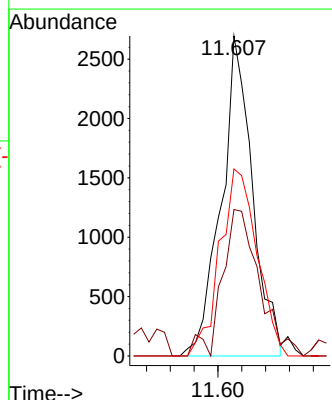
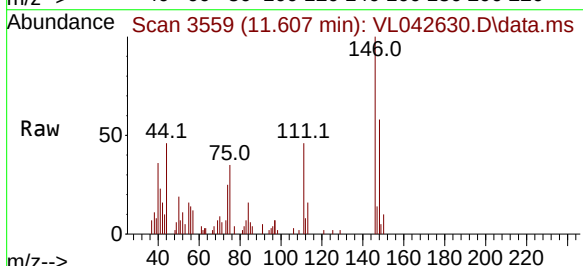
Tgt Ion:146 Resp: 2454

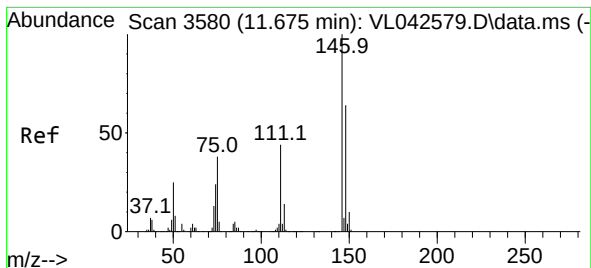
Ion Ratio Lower Upper

146 100

111 0.0 22.4 67.3#

148 69.5 32.0 96.2





#76

1,4-Dichlorobenzene

Concen: 0.139 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.003 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

Instrument :

MSVOA_1

ClientSampleId :

115-SG1

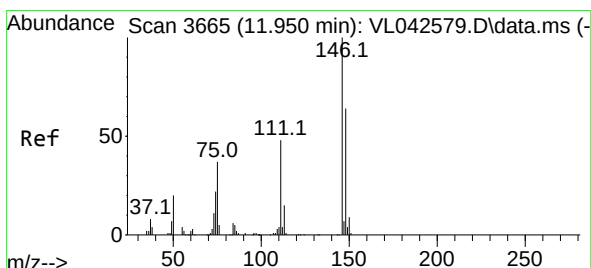
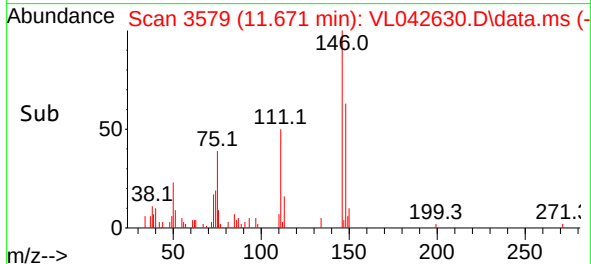
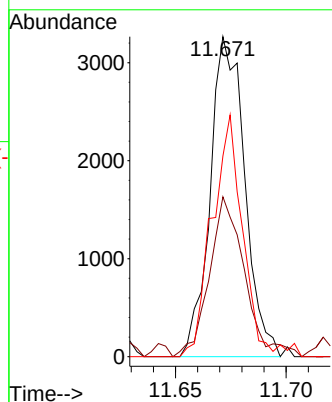
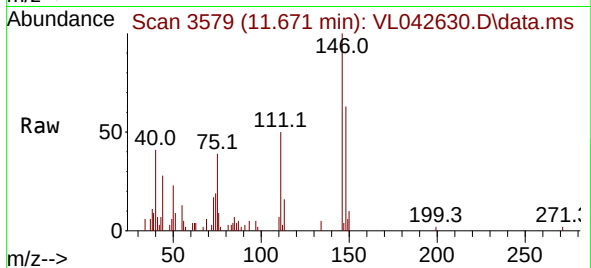
Tgt Ion:146 Resp: 3546

Ion Ratio Lower Upper

146 100

111 55.3 21.6 64.8

148 67.6 32.1 96.5



#77

1,2-Dichlorobenzene

Concen: 0.143 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.279 min

Lab File: VL042630.D

Acq: 16 Jun 2025 15:46

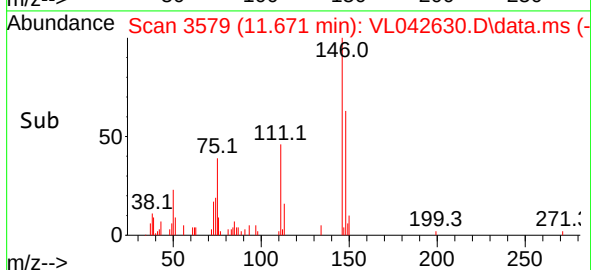
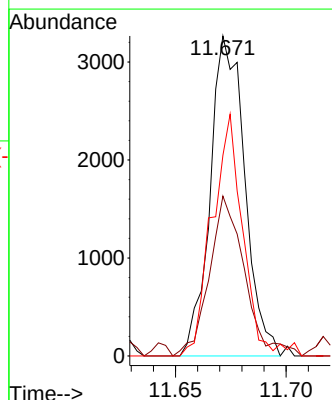
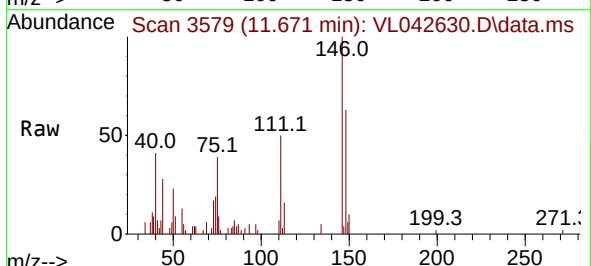
Tgt Ion:146 Resp: 3546

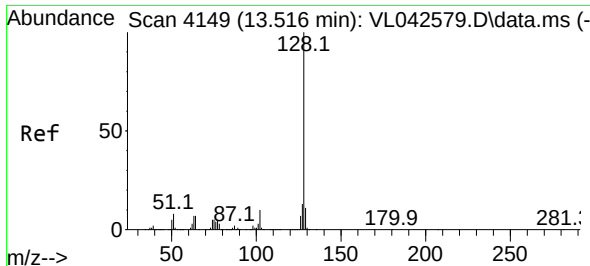
Ion Ratio Lower Upper

146 100

111 50.8 23.1 69.3

148 67.6 32.1 96.3

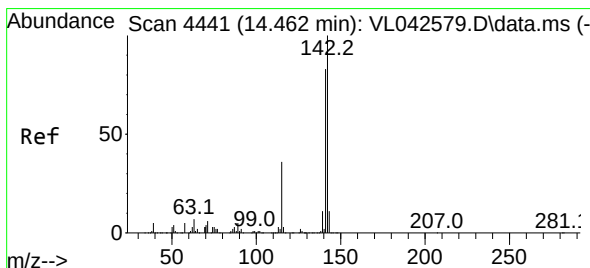
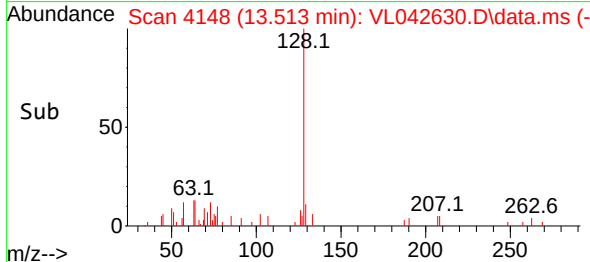
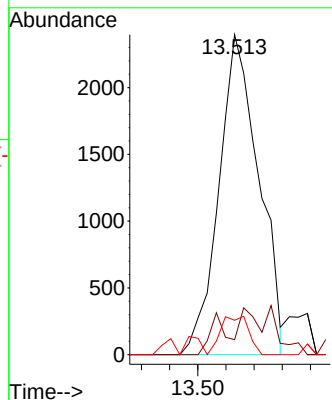
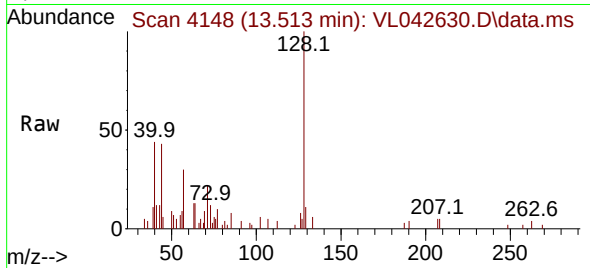




#79
Naphthalene
Concen: 0.061 ppbv
RT: 13.513 min Scan# 4149
Delta R.T. -0.003 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Instrument :
MSVOA_L
ClientSampleId :
115-SG1

Tgt Ion:128 Resp: 2357
Ion Ratio Lower Upper
128 100
127 4.7 10.2 15.4#
129 10.8 8.8 13.2



#80
Naphthalene,2-methyl-
Concen: 0.088 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.006 min
Lab File: VL042630.D
Acq: 16 Jun 2025 15:46

Tgt Ion:142 Resp: 1526
Ion Ratio Lower Upper
142 100
141 79.2 66.2 99.4
115 57.1 28.3 42.5#

