

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042677.D
 Acq On : 27 Jun 2025 14:01
 Operator : SY/MD
 Sample : Q2432-01DL 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Jun 27 23:04:34 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	2.781	49	110688	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	281745	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	247414	10.000	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	193390	10.427	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%

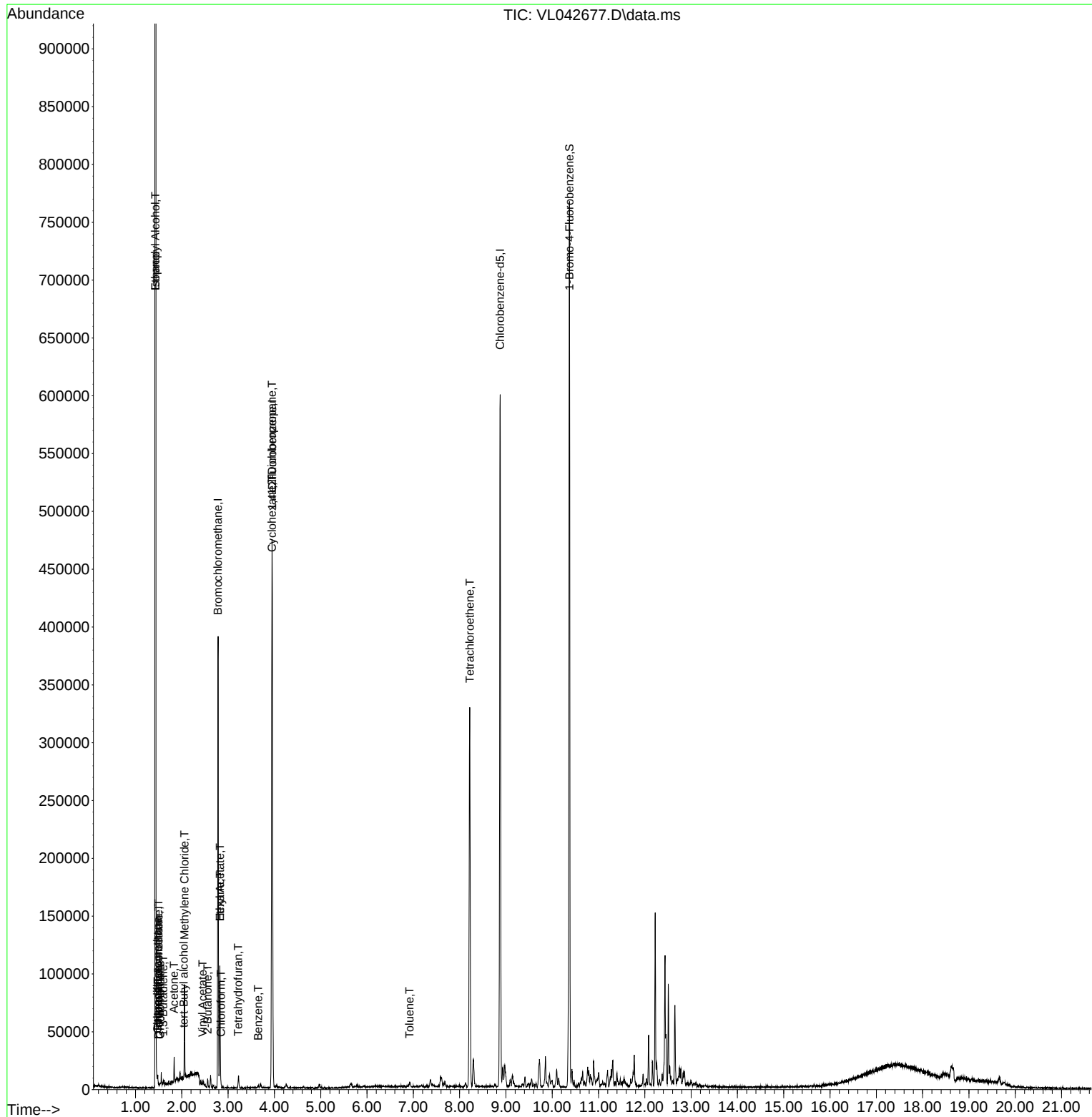
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	423	0.031	ppbv #	62
3) Chlorodifluoromethane	1.473	51	1149	0.061	ppbv #	92
4) Chloromethane	1.531	50	167	0.031	ppbv #	86
8) Dichlorotetrafluoroethane	1.496	85	423	0.037	ppbv #	23
9) Propene	1.483	41	1034	0.137	ppbv #	83
13) Ethanol	1.431	45	198093	220.300	ppbv #	43
15) Acetone	1.832	43	9558	0.717	ppbv	97
16) 1,3-Butadiene	1.599	39	857	0.136	ppbv #	19
17) tert-Butyl alcohol	2.046	59	748	0.054	ppbv #	69
19) Isopropyl Alcohol	1.431	45	198093	24.853	ppbv #	38
20) Methylene Chloride	2.059	84	11631	2.643	ppbv	96
23) Vinyl Acetate	2.447	43	673	0.037	ppbv #	50
25) Ethyl Acetate	2.823	43	16823	0.461	ppbv #	77
26) Hexane	2.823	57	22691	1.369	ppbv #	39
29) Chloroform	2.845	83	1392	0.065	ppbv	99
30) Cyclohexane	3.946	84	514	0.037	ppbv #	1
34) 2-Butanone	2.557	43	4312	0.215	ppbv	95
36) Benzene	3.651	78	1207	0.044	ppbv #	77
39) 1,2-Dichloropropane	3.949	63	70487	6.870	ppbv #	24
41) Tetrahydrofuran	3.217	42	412	0.035	ppbv #	39
52) Tetrachloroethene	8.221	164	57757	5.571	ppbv	98
53) Toluene	6.920	91	2014	0.063	ppbv #	78

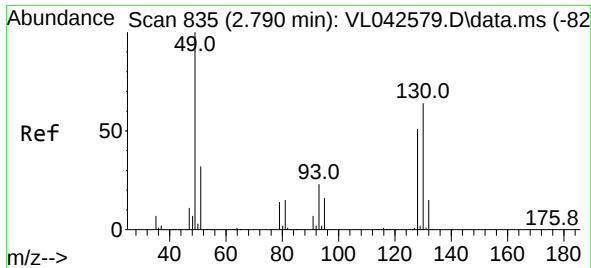
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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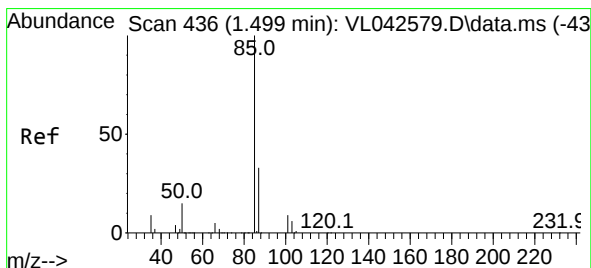
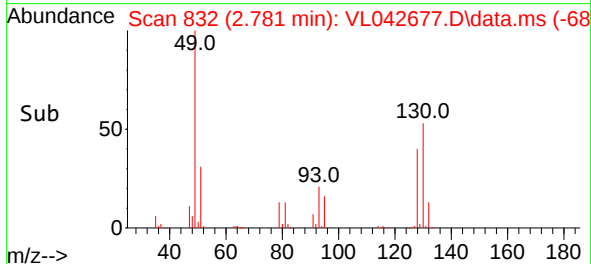
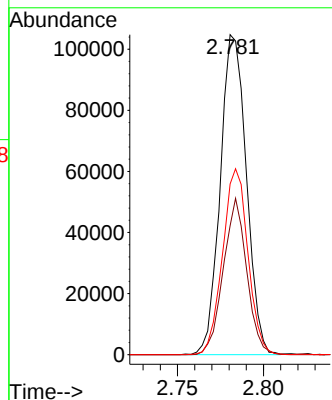
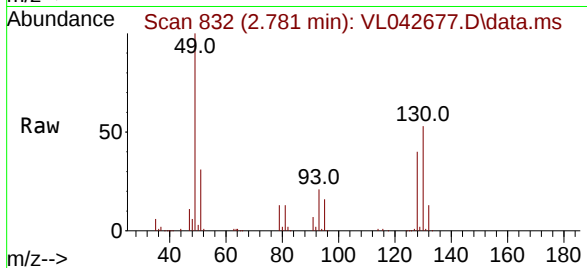




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.009 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

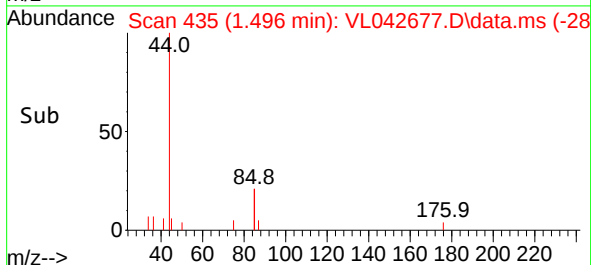
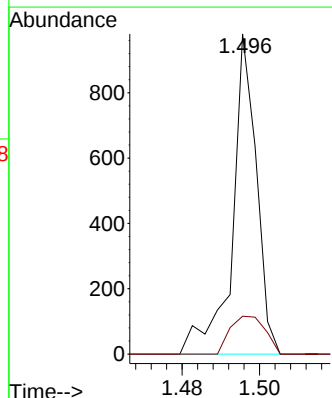
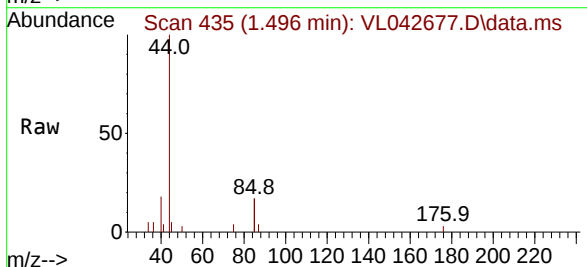
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

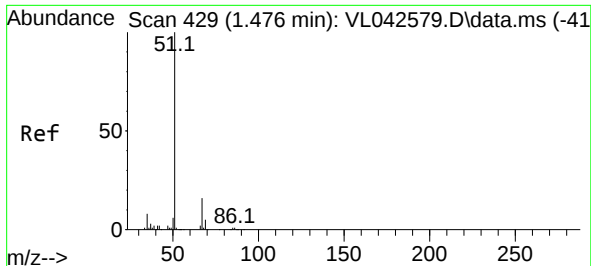
Tgt Ion: 49 Resp: 110688
Ion Ratio Lower Upper
49 100
128 43.8 24.2 72.6
130 56.5 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 85 Resp: 423
Ion Ratio Lower Upper
85 100
87 11.8 26.6 39.8

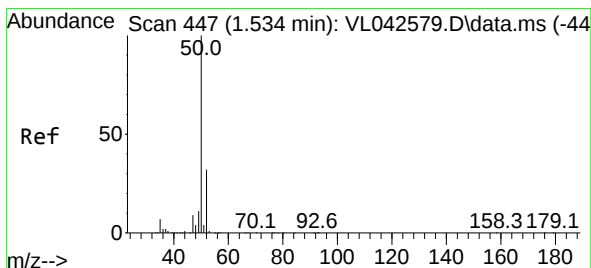
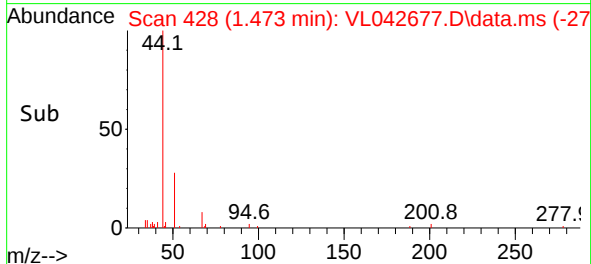
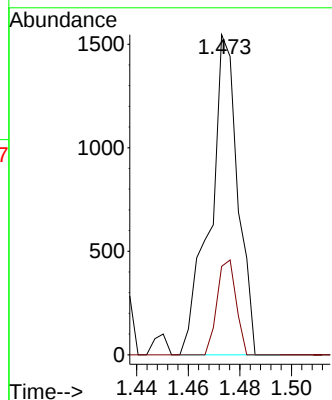
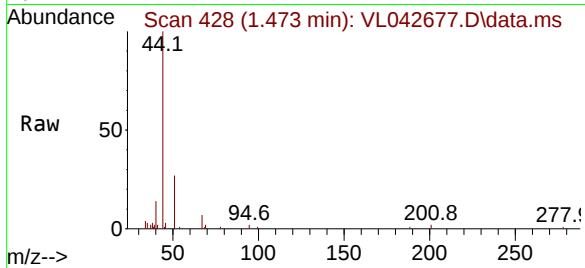




#3
Chlorodifluoromethane
Concen: 0.061 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

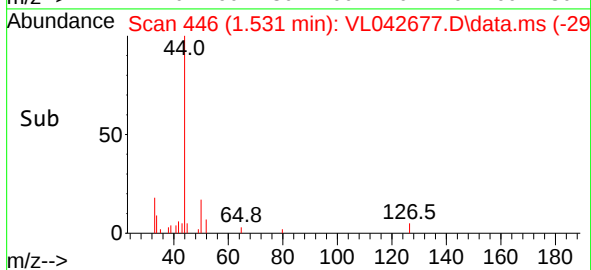
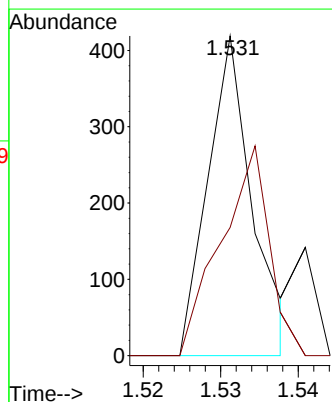
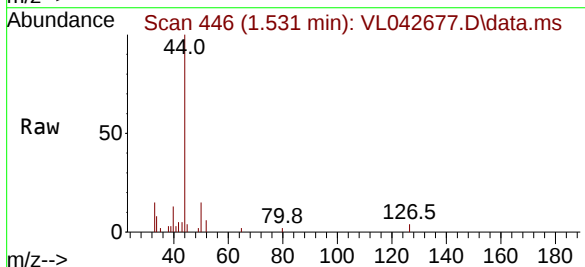
Instrument :
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ClientSampleId :
SV1DL

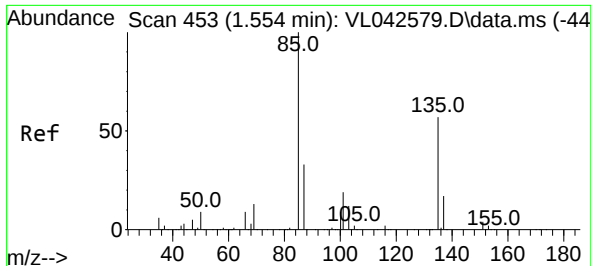
Tgt Ion: 51 Resp: 1149
Ion Ratio Lower Upper
51 100
67 20.3 13.4 20.2#



#4
Chloromethane
Concen: 0.031 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 50 Resp: 167
Ion Ratio Lower Upper
50 100
52 40.1 25.8 38.6#

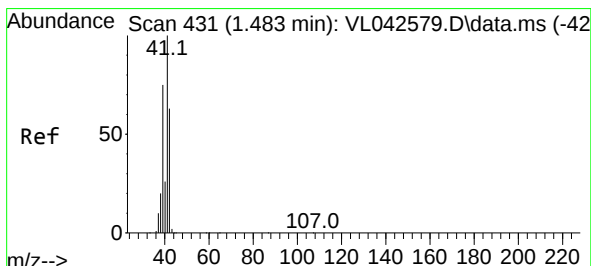
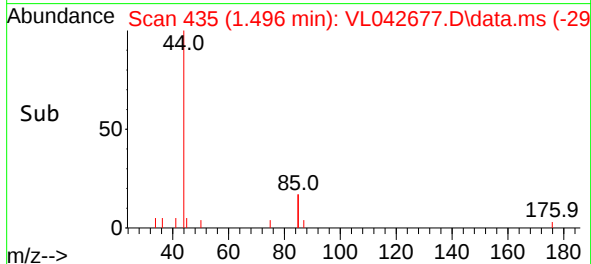
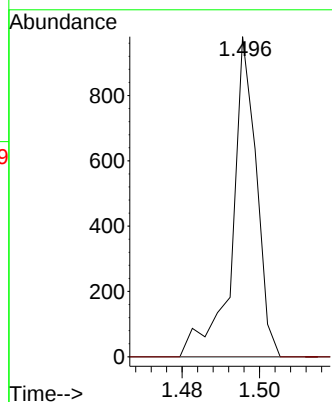
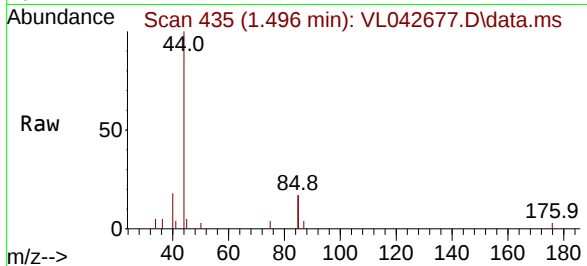




#8
 Dichlorotetrafluoroethane
 Concen: 0.037 ppbv
 RT: 1.496 min Scan# 41
 Delta R.T. -0.058 min
 Lab File: VL042677.D
 Acq: 27 Jun 2025 14:01

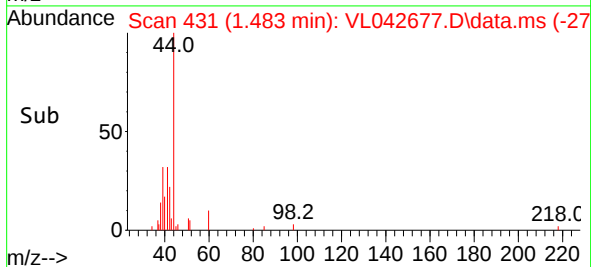
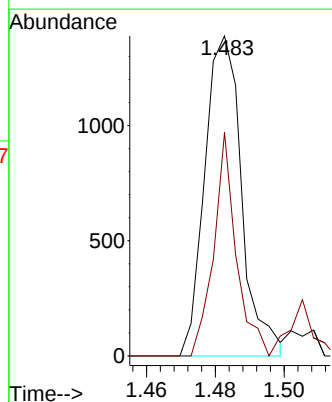
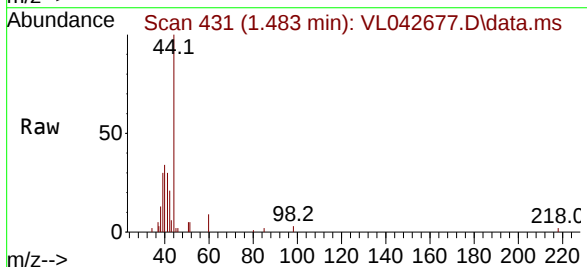
Instrument :
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 ClientSampleId :
 SV1DL

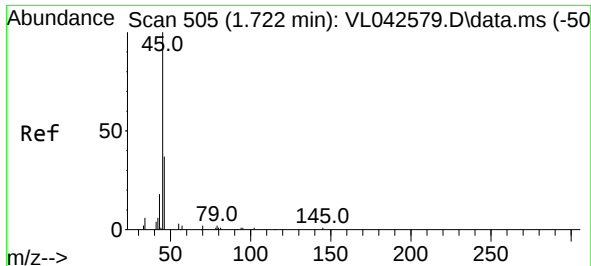
Tgt Ion: 85 Resp: 423
 Ion Ratio Lower Upper
 85 100
 135 3.1 50.2 75.4#



#9
 Propene
 Concen: 0.137 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.000 min
 Lab File: VL042677.D
 Acq: 27 Jun 2025 14:01

Tgt Ion: 41 Resp: 1034
 Ion Ratio Lower Upper
 41 100
 42 53.4 53.3 79.9

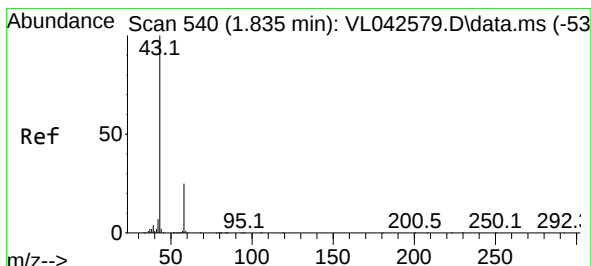
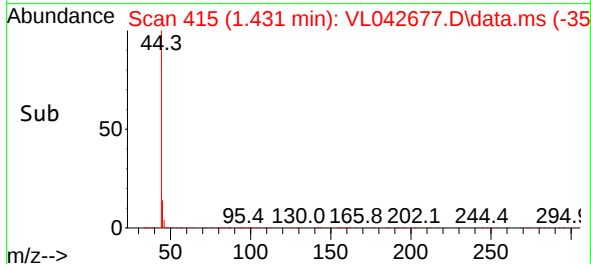
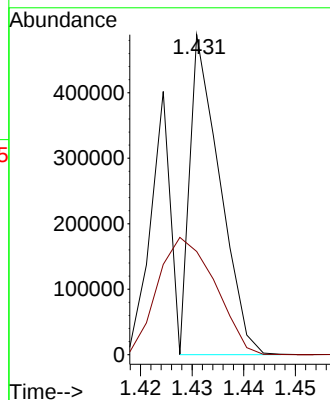
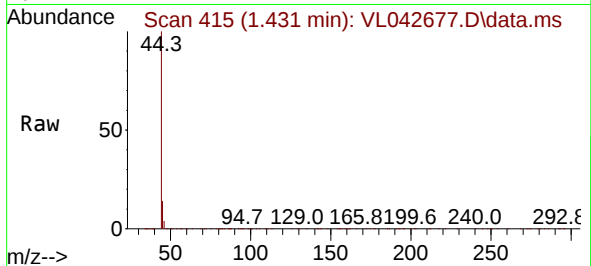




#13
Ethanol
Concen: 220.300 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.291 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

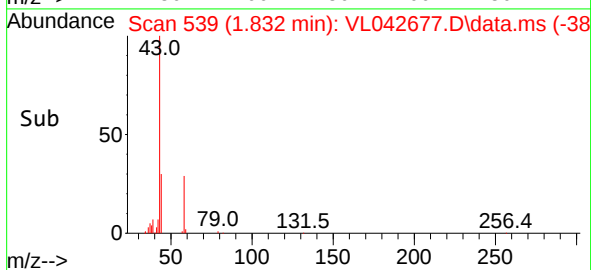
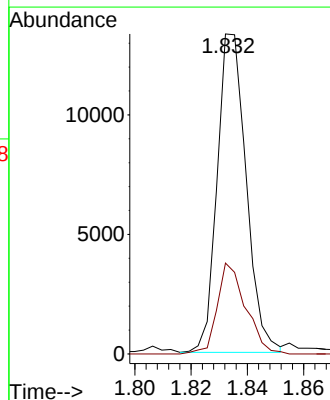
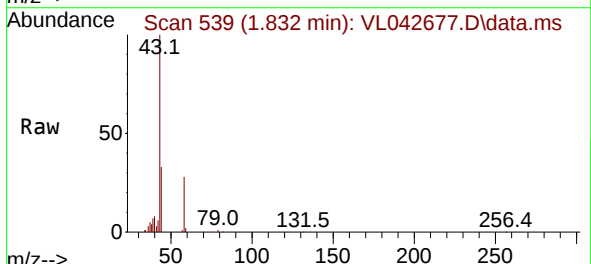
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

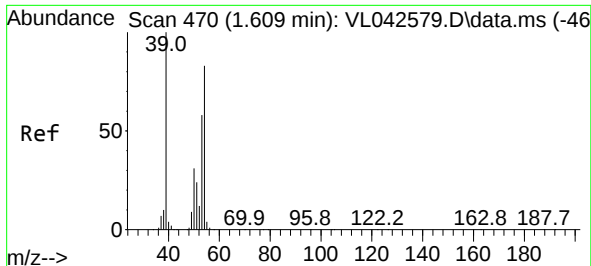
Tgt Ion: 45 Resp: 198093
Ion Ratio Lower Upper
45 100
46 70.0 14.5 58.1#



#15
Acetone
Concen: 0.717 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 43 Resp: 9558
Ion Ratio Lower Upper
43 100
58 27.9 21.0 31.4

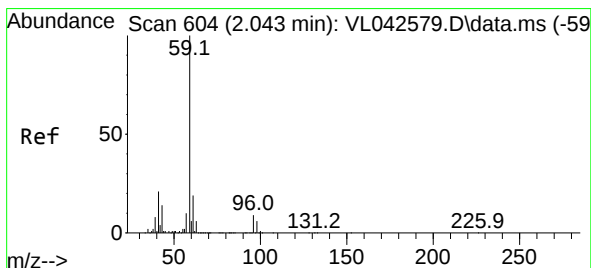
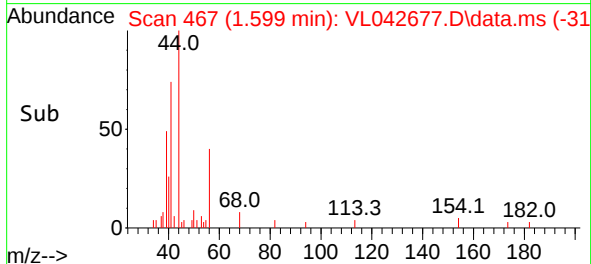
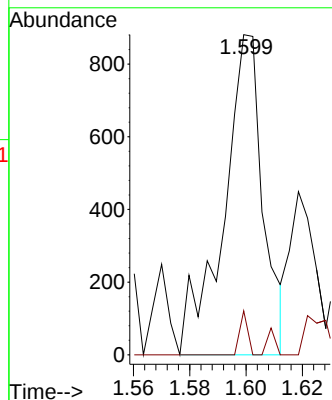
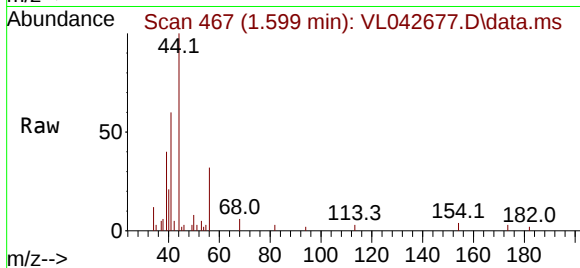




#16
1,3-Butadiene
Concen: 0.136 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

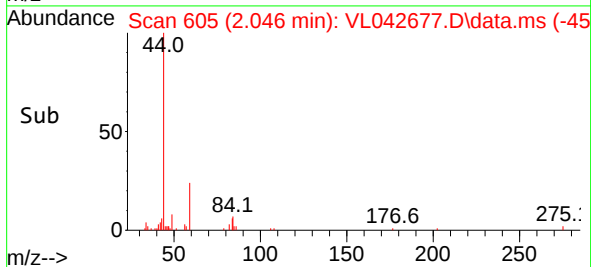
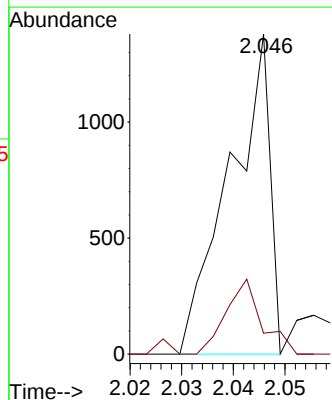
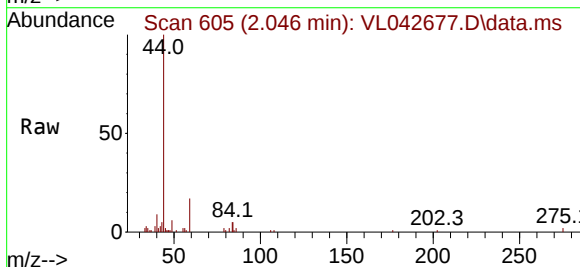
Instrument :
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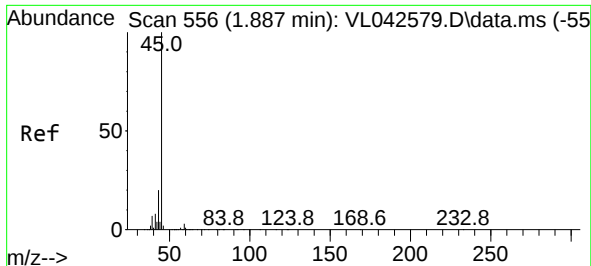
Tgt Ion: 39 Resp: 857
Ion Ratio Lower Upper
39 100
54 4.4 57.9 86.9#



#17
tert-Butyl alcohol
Concen: 0.054 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 59 Resp: 748
Ion Ratio Lower Upper
59 100
57 22.5 8.6 12.8#

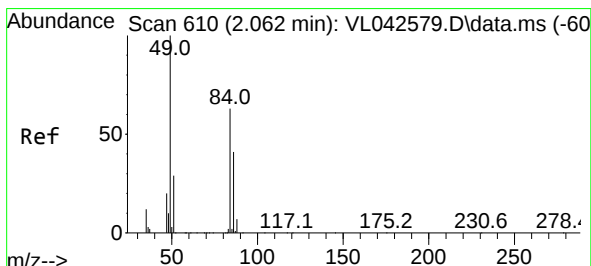
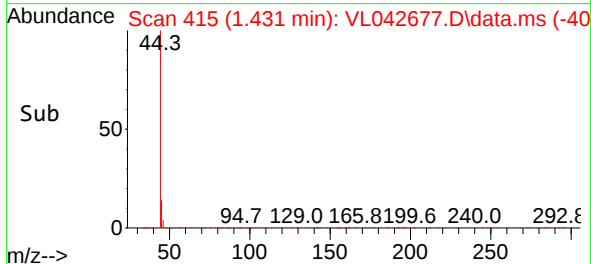
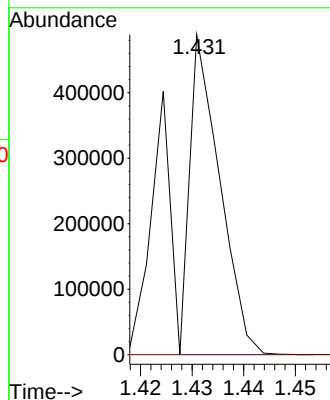
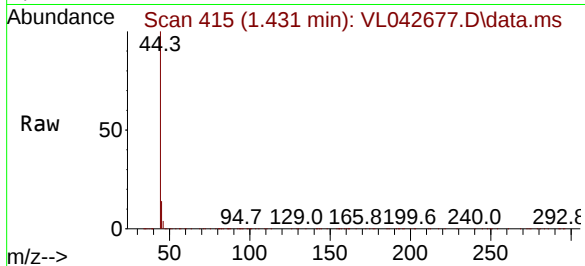




#19
Isopropyl Alcohol
Concen: 24.853 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.456 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

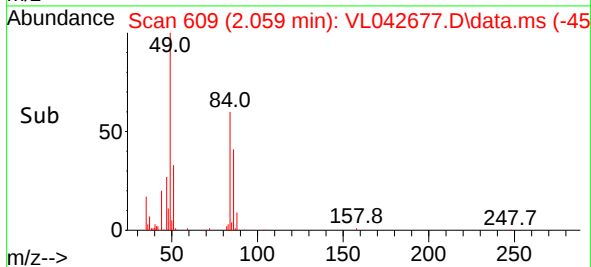
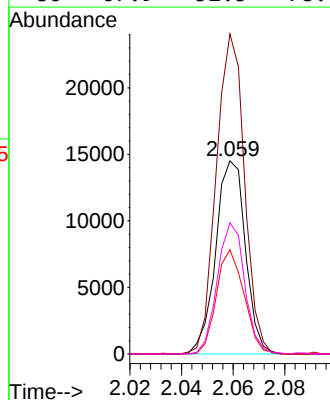
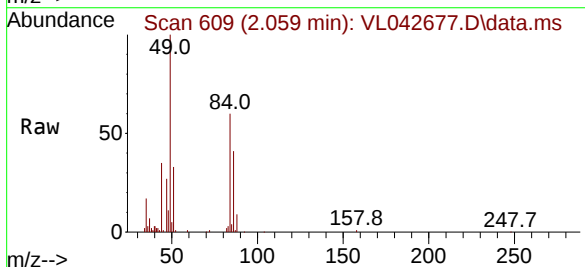
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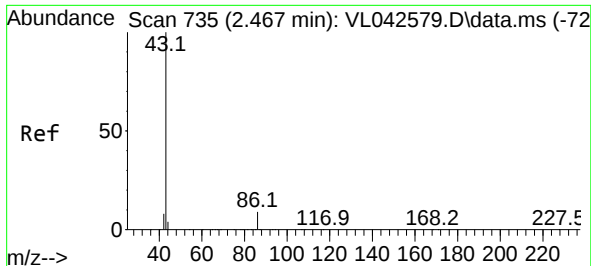
Tgt Ion: 45 Resp: 198093
Ion Ratio Lower Upper
45 100
58 0.0 29.4 44.2#



#20
Methylene Chloride
Concen: 2.643 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 84 Resp: 11631
Ion Ratio Lower Upper
84 100
49 165.7 128.8 193.2
51 54.0 38.6 57.8
86 67.9 52.5 78.7

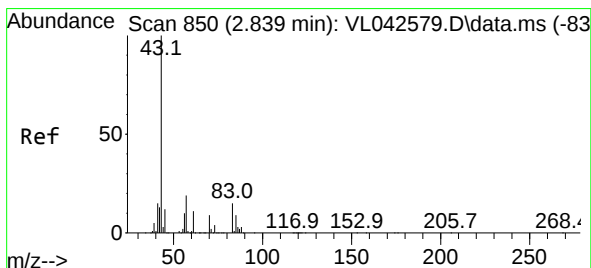
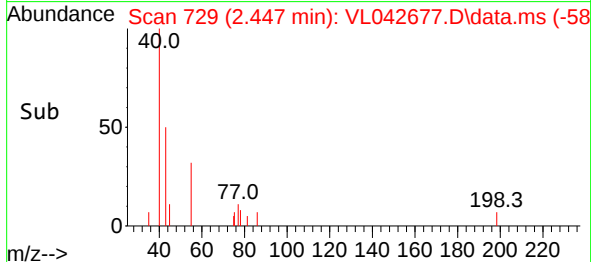
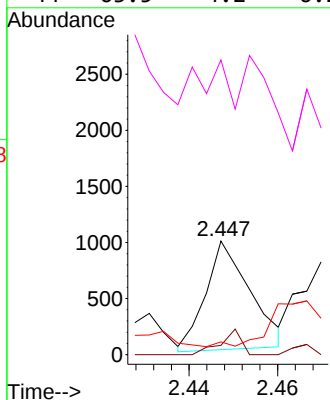
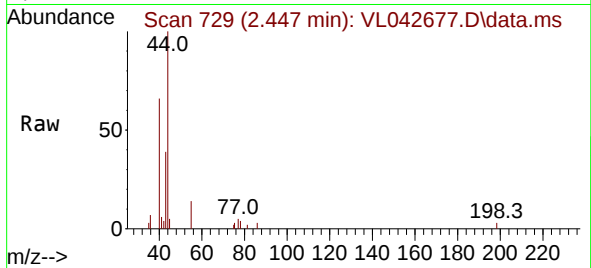




#23
 Vinyl Acetate
 Concen: 0.037 ppbv
 RT: 2.447 min Scan# 71
 Delta R.T. -0.019 min
 Lab File: VL042677.D
 Acq: 27 Jun 2025 14:01

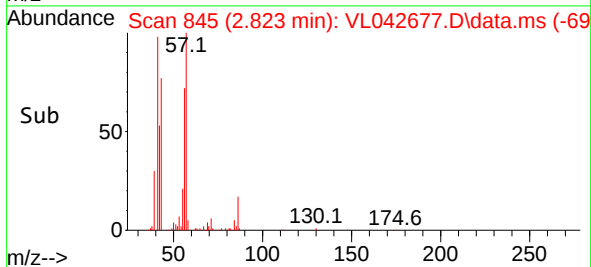
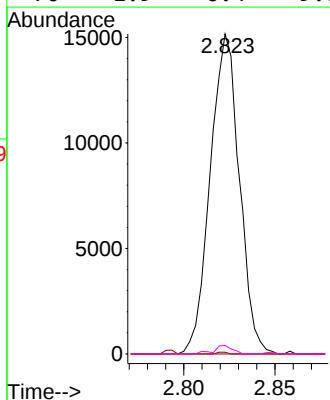
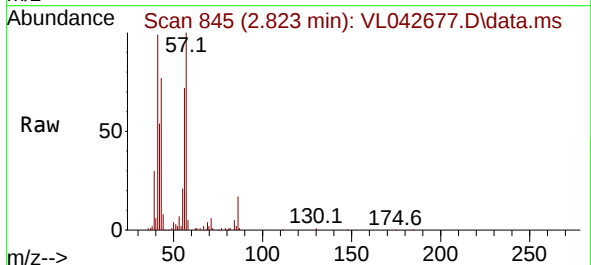
Instrument :
 MSVOA_L
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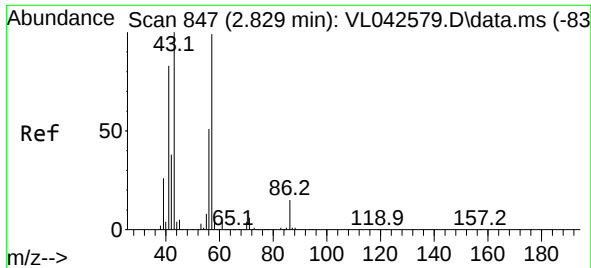
Tgt Ion: 43	Resp: 673
Ion Ratio	Lower Upper
43 100	
86 8.7	6.6 9.8
42 1.2	7.0 10.4#
44 63.5	4.2 6.2#



#25
 Ethyl Acetate
 Concen: 0.461 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.016 min
 Lab File: VL042677.D
 Acq: 27 Jun 2025 14:01

Tgt	Ion: 43	Resp:	16823
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.2#
61	0.0	7.1	10.7#
70	1.9	6.4	9.6#

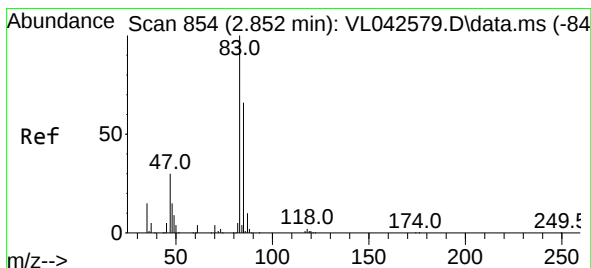
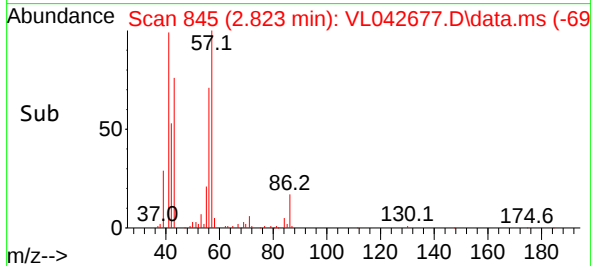
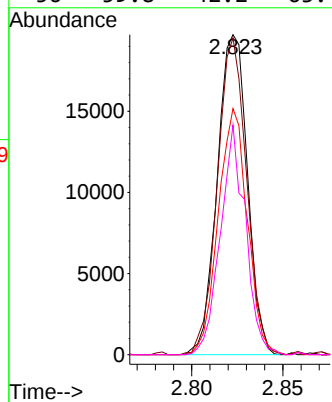
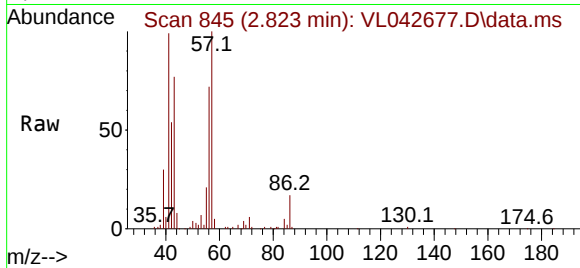




#26
Hexane
Concen: 1.369 ppbv
RT: 2.823 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

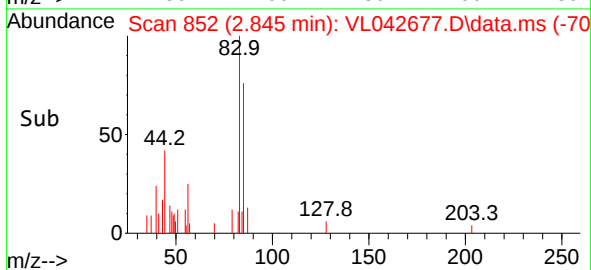
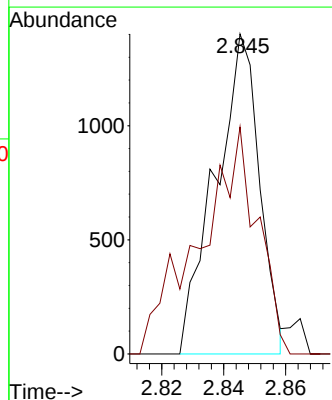
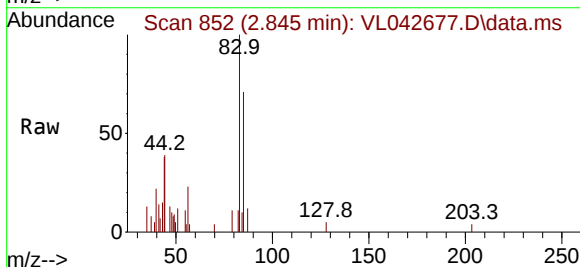
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

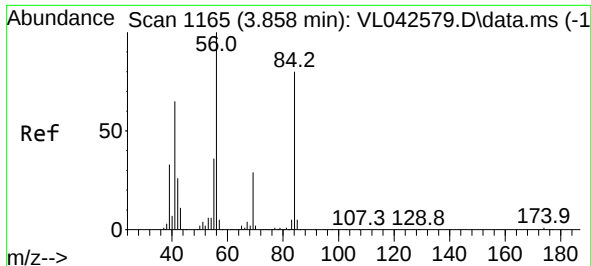
Tgt Ion: 57 Resp: 22691
Ion Ratio Lower Upper
57 100
41 96.4 70.6 106.0
43 74.3 181.1 271.7#
56 59.8 42.2 63.4



#29
Chloroform
Concen: 0.065 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.006 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 83 Resp: 1392
Ion Ratio Lower Upper
83 100
85 64.9 52.8 79.2

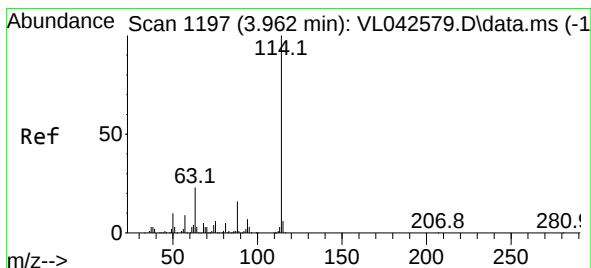
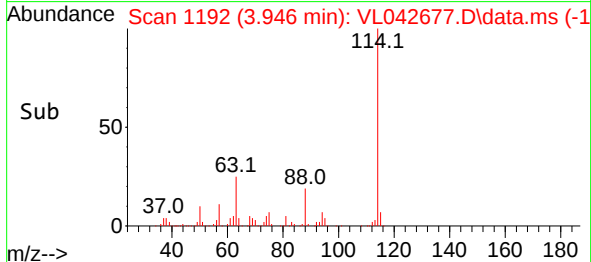
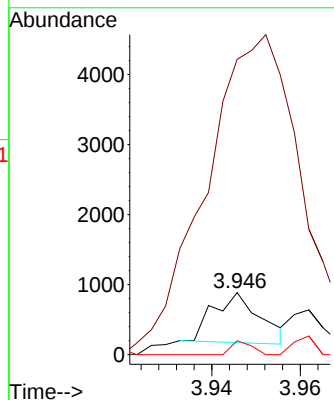
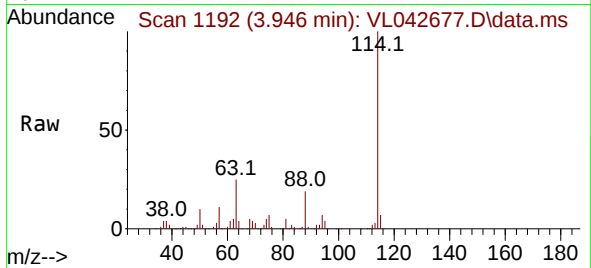




#30
Cyclohexane
Concen: 0.037 ppbv
RT: 3.946 min Scan# 1165
Delta R.T. 0.087 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

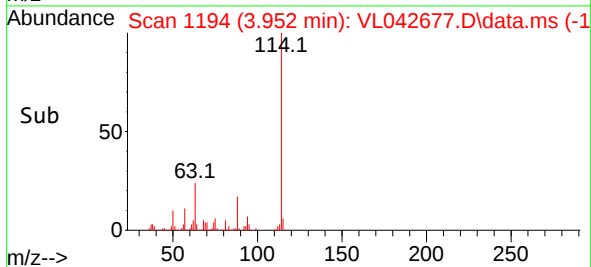
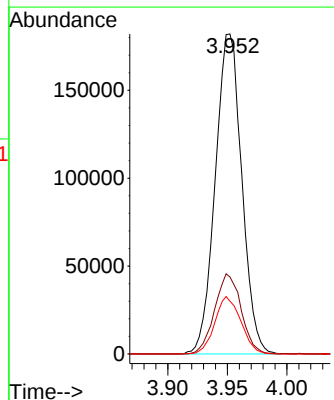
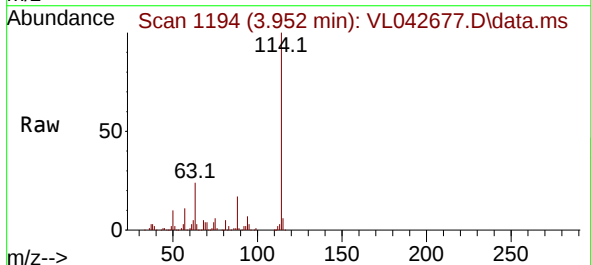
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

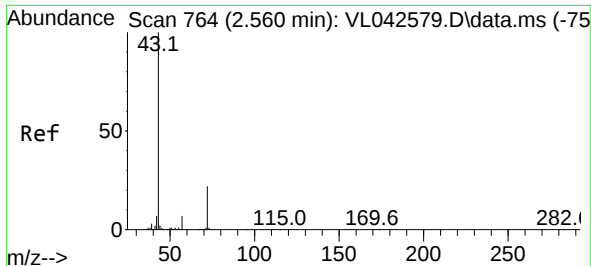
Tgt Ion: 84 Resp: 514
Ion Ratio Lower Upper
84 100
56 1371.0 103.7 155.5#
41 18.1 65.1 97.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.010 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 114 Resp: 281745
Ion Ratio Lower Upper
114 100
63 25.0 19.0 28.6
88 17.6 13.6 20.4

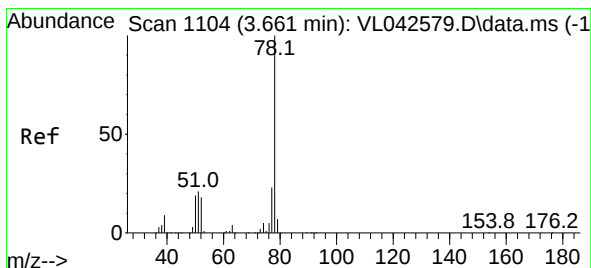
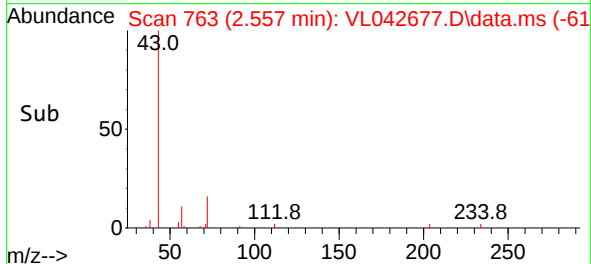
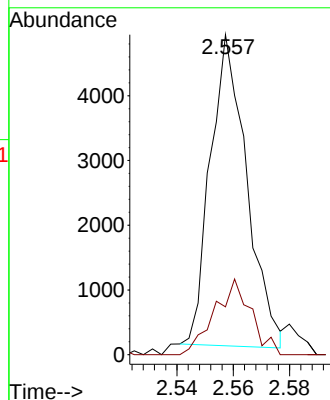
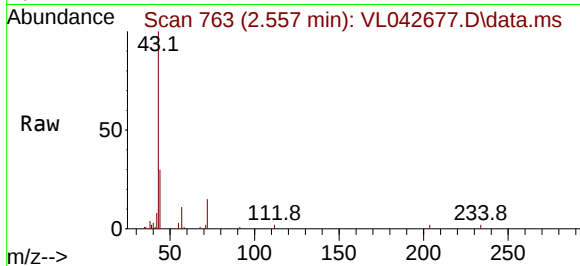




#34
2-Butanone
Concen: 0.215 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.003 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

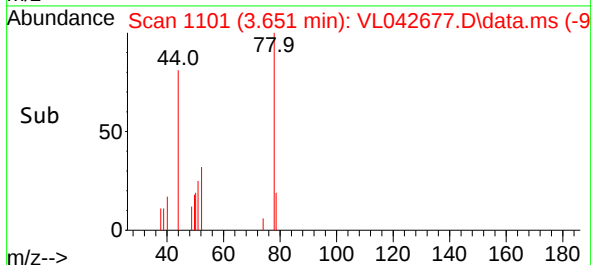
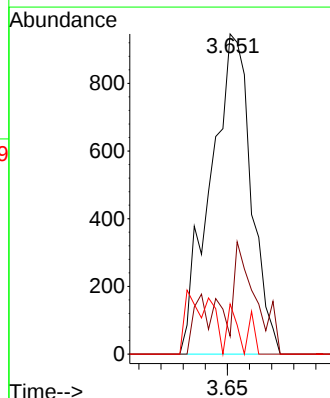
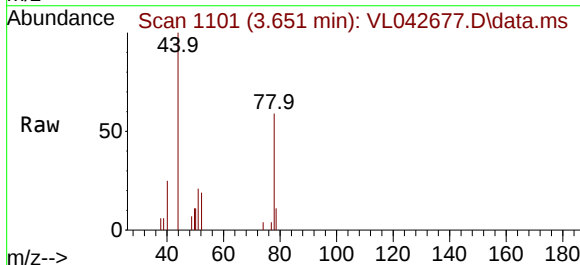
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

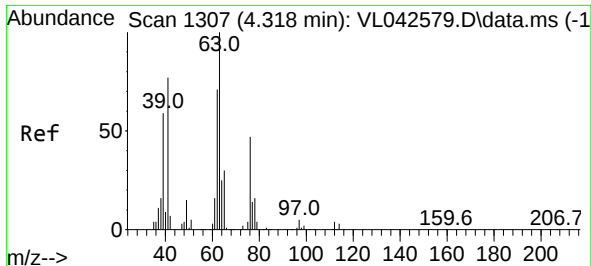
Tgt Ion: 43 Resp: 4312
Ion Ratio Lower Upper
43 100
72 24.4 17.7 26.5



#36
Benzene
Concen: 0.044 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.010 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 78 Resp: 1207
Ion Ratio Lower Upper
78 100
77 5.6 18.2 27.2#
50 15.6 15.2 22.8





#39

1,2-Dichloropropane

Concen: 6.870 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.369 min

Lab File: VL042677.D

Acq: 27 Jun 2025 14:01

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

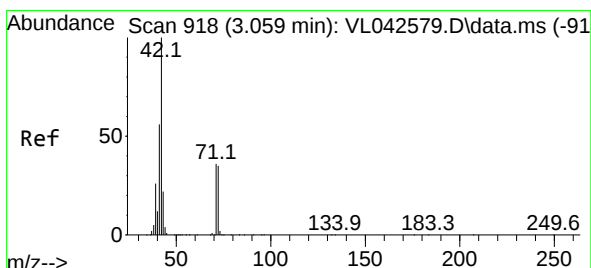
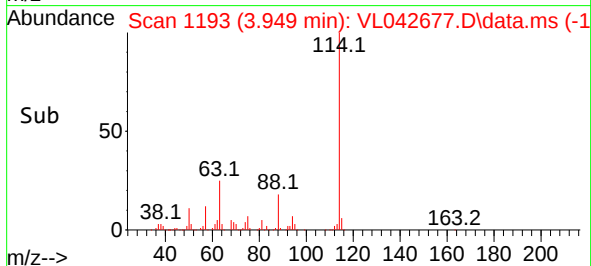
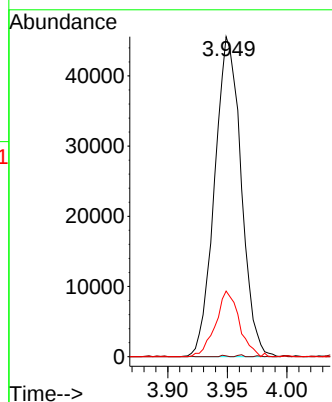
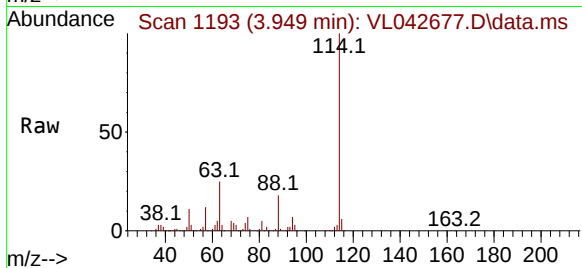
Tgt Ion: 63 Resp: 70487

Ion Ratio Lower Upper

63 100

41 0.3 61.8 92.6#

62 20.5 56.6 85.0#



#41

Tetrahydrofuran

Concen: 0.035 ppbv

RT: 3.217 min Scan# 967

Delta R.T. 0.159 min

Lab File: VL042677.D

Acq: 27 Jun 2025 14:01

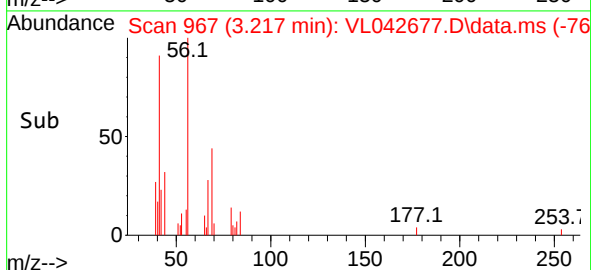
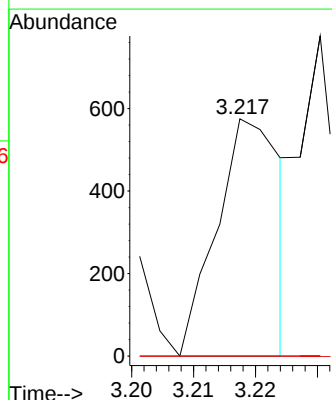
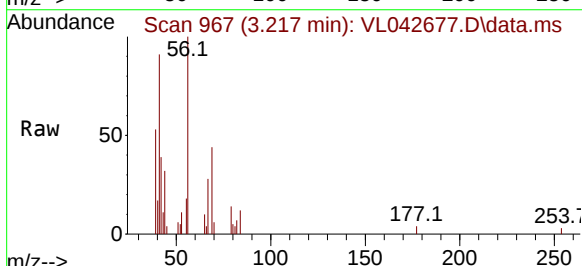
Tgt Ion: 42 Resp: 412

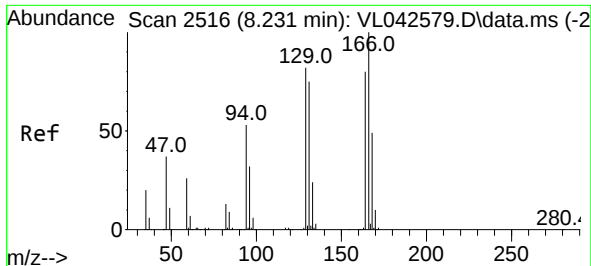
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 0.0 28.5 42.7#

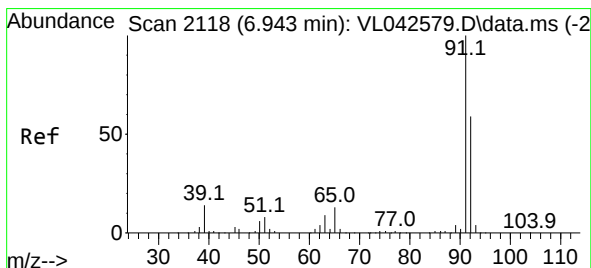
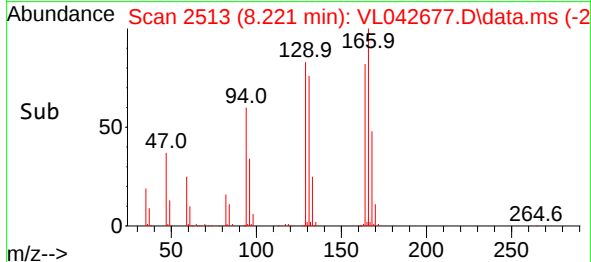
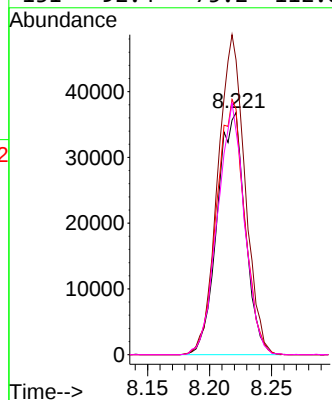
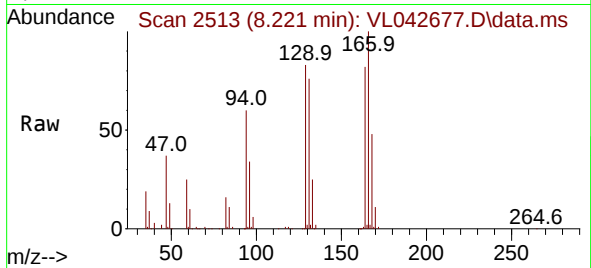




#52
Tetrachloroethene
Concen: 5.571 ppbv
RT: 8.221 min Scan# 2113
Delta R.T. -0.010 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

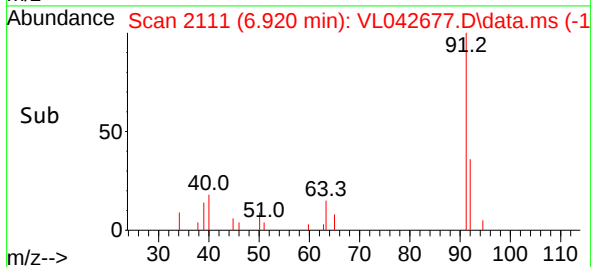
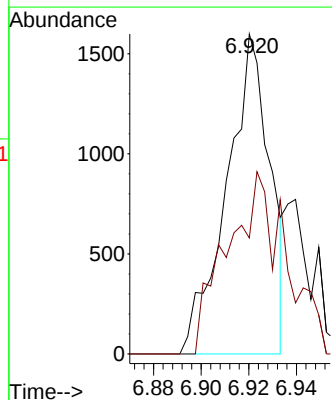
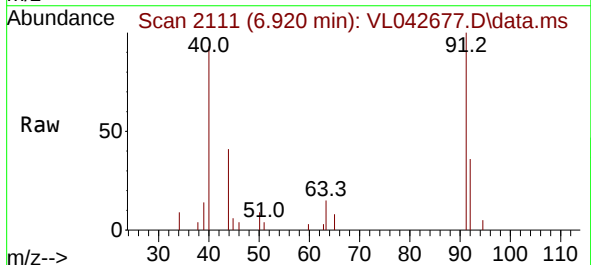
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

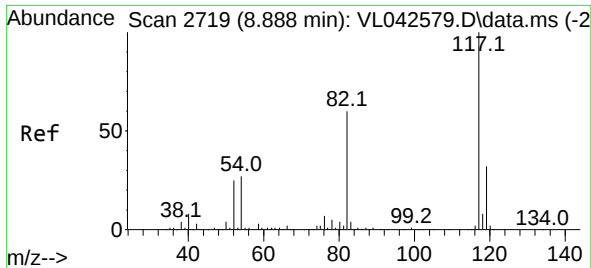
Tgt Ion:164 Resp: 57757
Ion Ratio Lower Upper
164 100
166 121.8 100.0 150.0
129 101.5 82.2 123.4
131 92.4 75.2 112.8



#53
Toluene
Concen: 0.063 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.023 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 91 Resp: 2014
Ion Ratio Lower Upper
91 100
92 76.8 48.2 72.4#

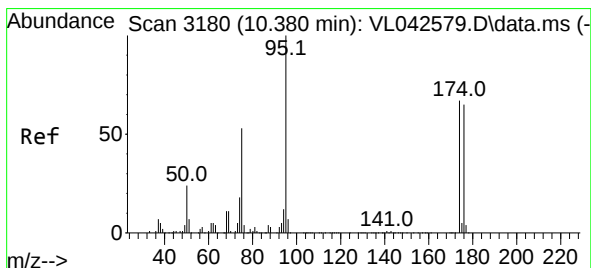
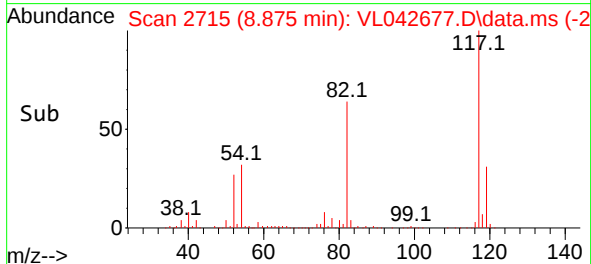
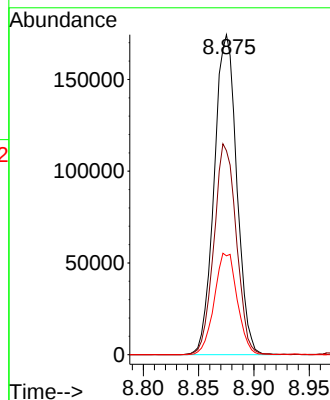
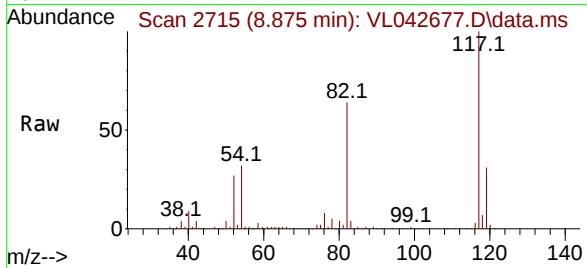




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion:117 Resp: 247414
Ion Ratio Lower Upper
117 100
82 65.3 51.2 76.8
119 32.5 26.3 39.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.427 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.010 min
Lab File: VL042677.D
Acq: 27 Jun 2025 14:01

Tgt Ion: 95 Resp: 193390
Ion Ratio Lower Upper
95 100
174 63.2 53.1 79.7
175 4.9 4.2 6.2

