

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042913.D
 Acq On : 08 Sep 2025 21:08
 Operator : SY/MD
 Sample : Q3052-03DL 20X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Sep 09 01:00:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	132040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	322758	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.878	117	271668	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	195379	9.589	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%

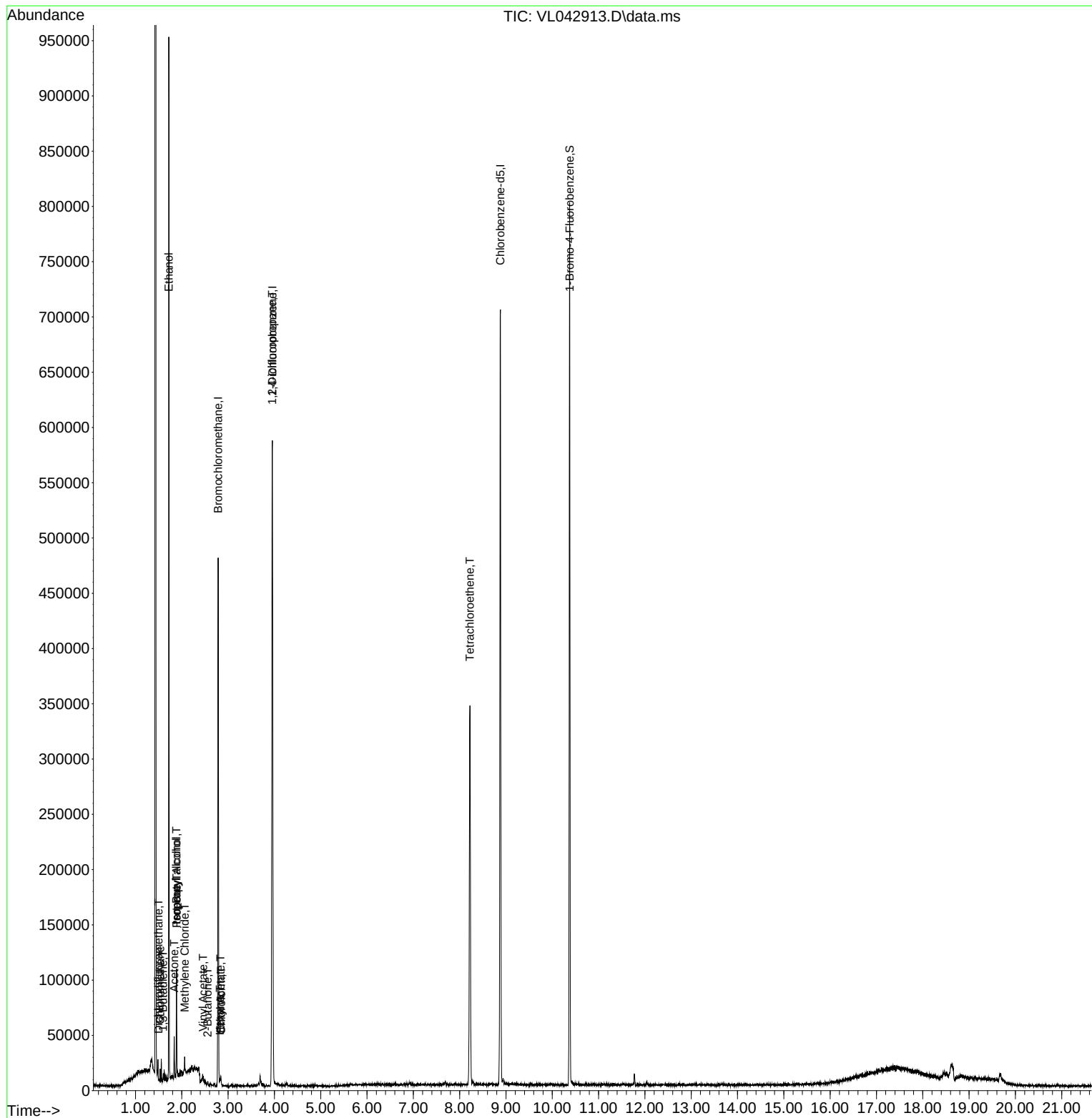
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.496	85	668	0.035	ppbv	90
4) Chloromethane	1.531	50	2086	0.267	ppbv	92
9) Propene	1.887	41	4279	0.463	ppbv	89
13) Ethanol	1.719	45	330005	390.702	ppbv	90
15) Acetone	1.835	43	15233	0.872	ppbv	94
16) 1,3-Butadiene	1.596	39	1010	0.128	ppbv #	41
17) tert-Butyl alcohol	1.884	59	1760	0.085	ppbv	96
19) Isopropyl Alcohol	1.884	45	41906	4.017	ppbv #	38
20) Methylene Chloride	2.062	84	2308	0.315	ppbv #	78
23) Vinyl Acetate	2.457	43	1166	0.049	ppbv #	62
25) Ethyl Acetate	2.836	43	4625	0.109	ppbv #	95
26) Hexane	2.826	57	823	0.042	ppbv #	2
29) Chloroform	2.848	83	1526	0.055	ppbv #	73
34) 2-Butanone	2.557	43	2059	0.094	ppbv	91
39) 1,2-Dichloropropane	3.952	63	86957	7.704	ppbv #	27
52) Tetrachloroethene	8.221	164	57004	5.098	ppbv	95

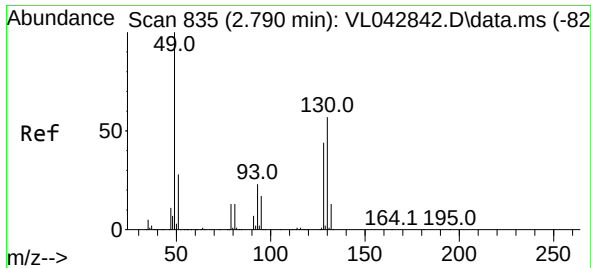
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 09 01:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

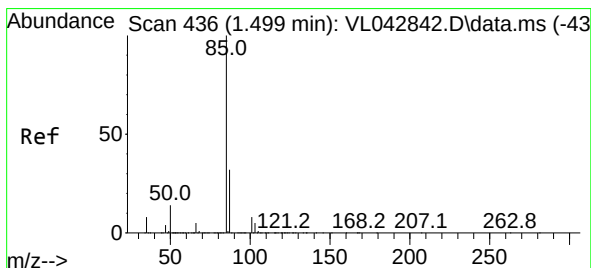
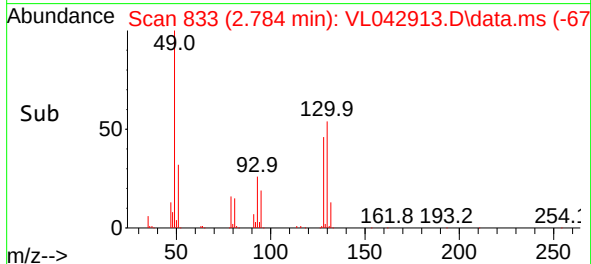
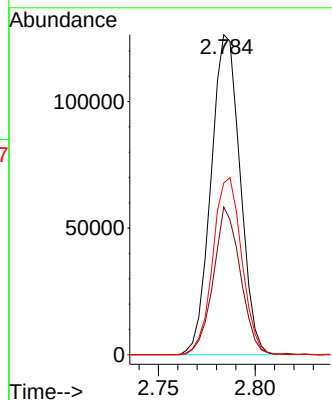
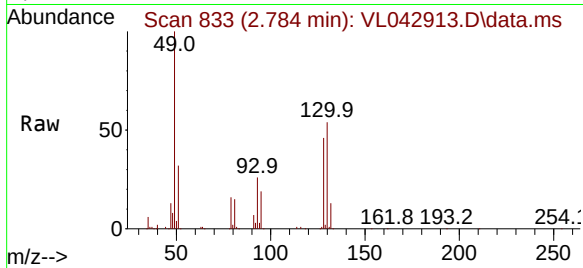




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042913.D
 Acq: 08 Sep 2025 21:08

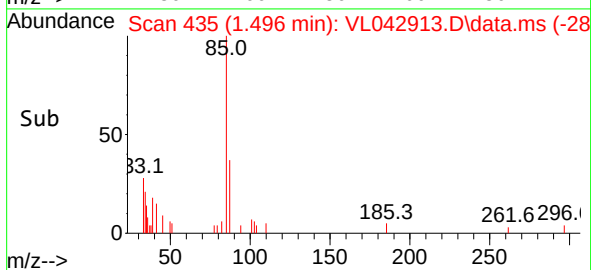
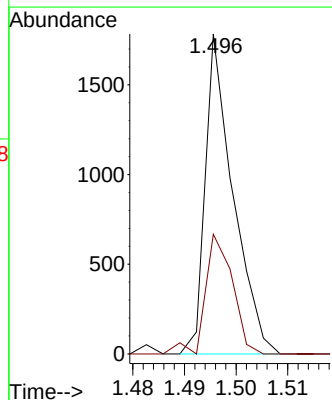
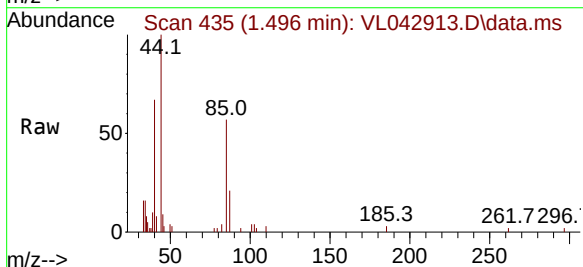
Instrument :
 MSVOA_L
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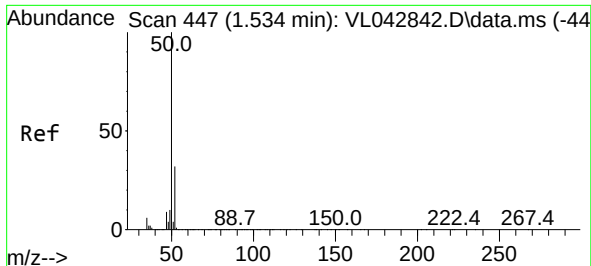
Tgt Ion: 49 Resp: 132040
 Ion Ratio Lower Upper
 49 100
 128 43.0 23.7 71.1
 130 55.1 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.035 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. 0.003 min
 Lab File: VL042913.D
 Acq: 08 Sep 2025 21:08

Tgt Ion: 85 Resp: 668
 Ion Ratio Lower Upper
 85 100
 87 37.4 25.3 37.9

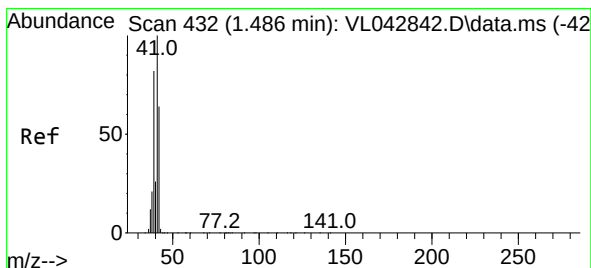
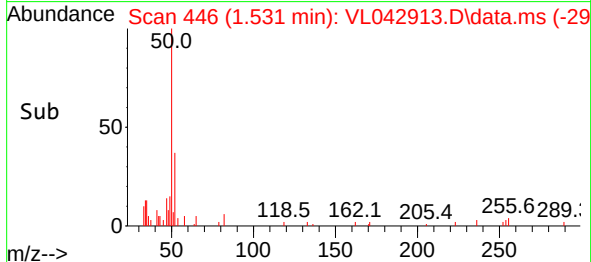
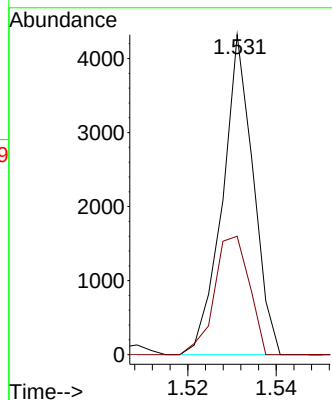
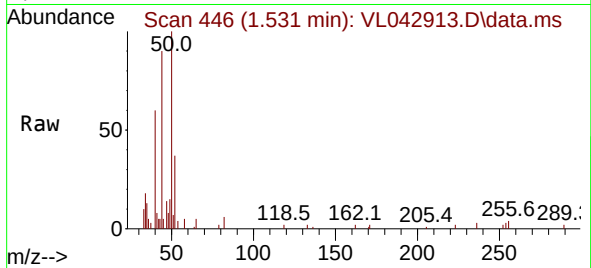




#4
Chloromethane
Concen: 0.267 ppbv
RT: 1.531 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

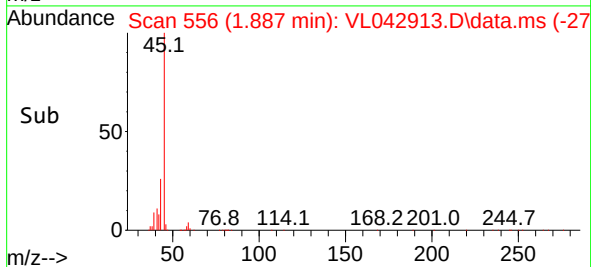
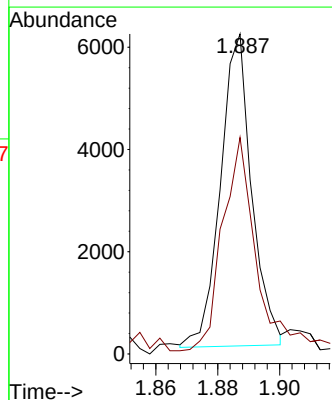
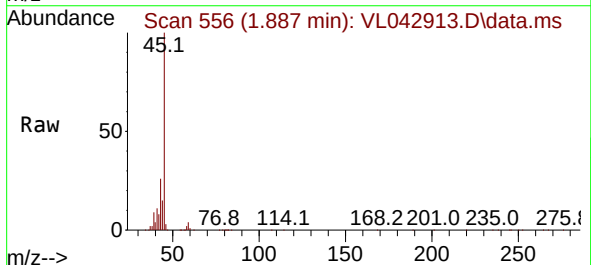
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

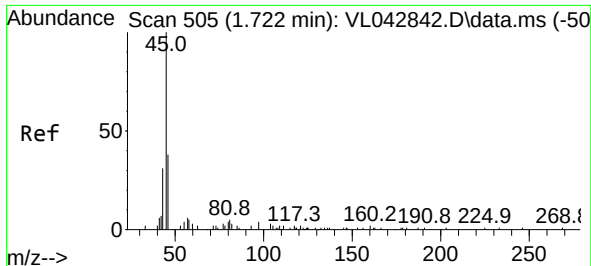
Tgt Ion: 50 Resp: 2086
Ion Ratio Lower Upper
50 100
52 37.0 25.9 38.9



#9
Propene
Concen: 0.463 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.411 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 41 Resp: 4279
Ion Ratio Lower Upper
41 100
42 75.2 53.0 79.4

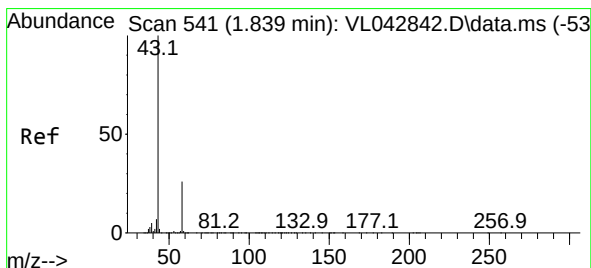
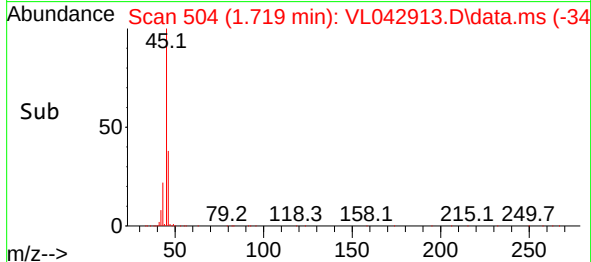
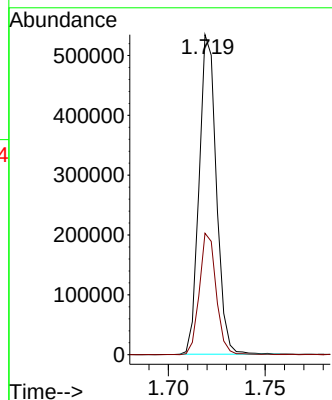
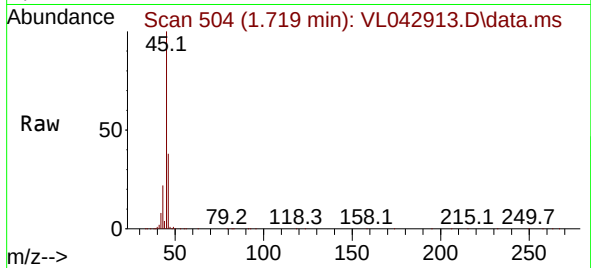




#13
Ethanol
Concen: 390.702 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

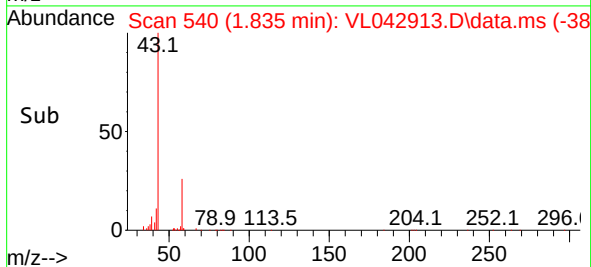
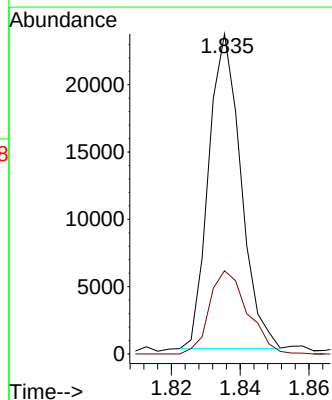
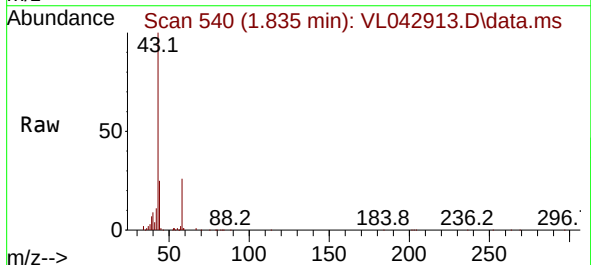
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

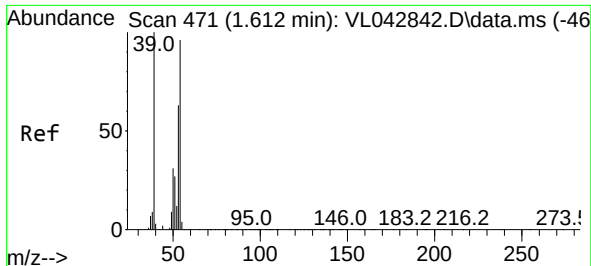
Tgt Ion: 45 Resp: 330005
Ion Ratio Lower Upper
45 100
46 37.5 17.5 69.9



#15
Acetone
Concen: 0.872 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 43 Resp: 15233
Ion Ratio Lower Upper
43 100
58 31.3 22.4 33.6

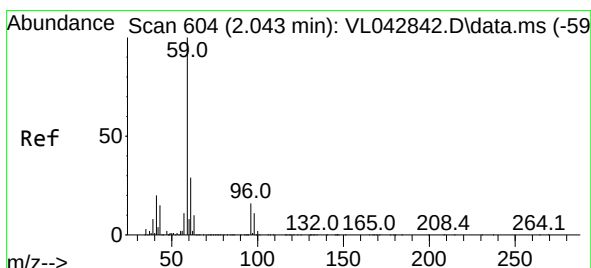
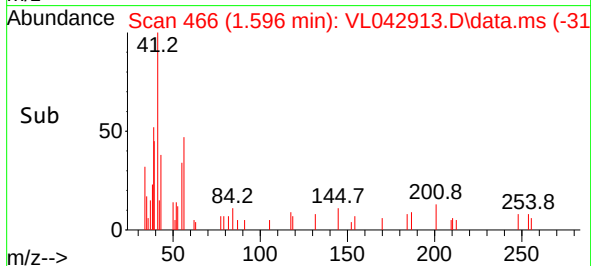
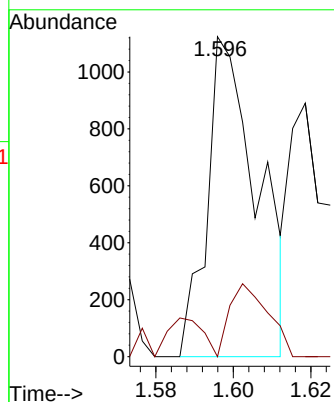
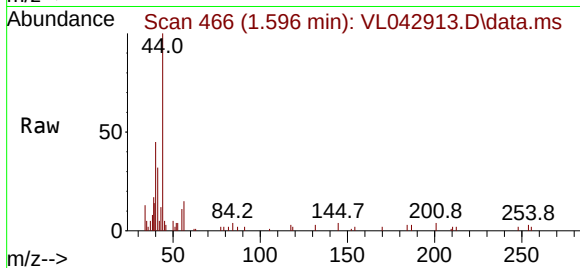




#16
1,3-Butadiene
Concen: 0.128 ppbv
RT: 1.596 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

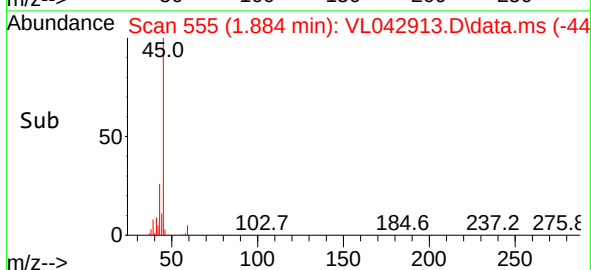
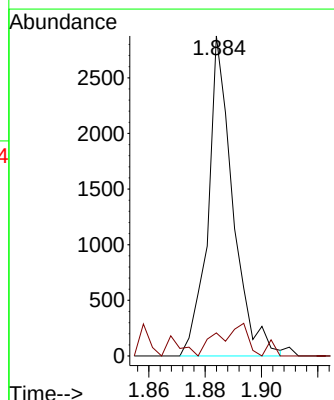
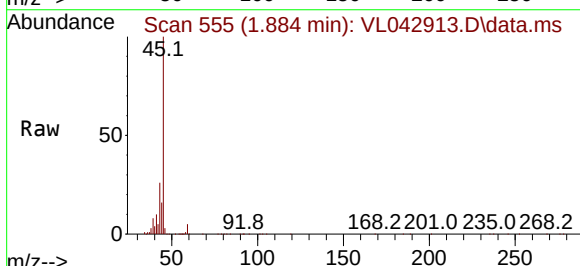
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

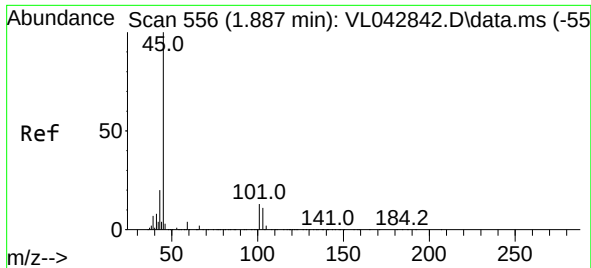
Tgt Ion: 39 Resp: 1010
Ion Ratio Lower Upper
39 100
54 27.7 63.6 95.4#



#17
tert-Butyl alcohol
Concen: 0.085 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.149 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 59 Resp: 1760
Ion Ratio Lower Upper
59 100
57 12.8 9.0 13.4

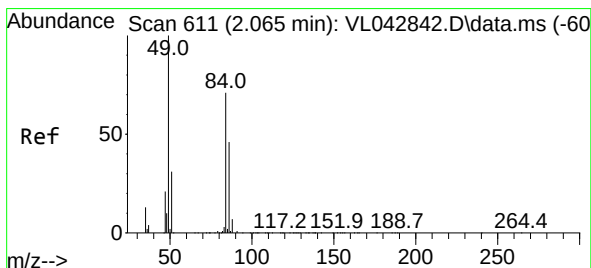
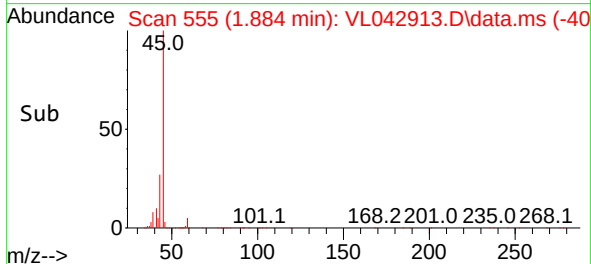
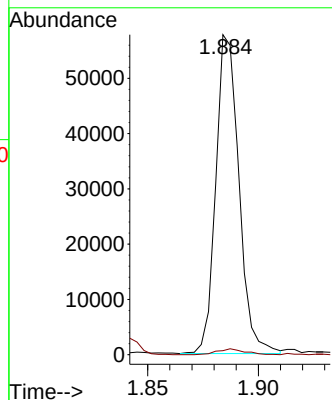
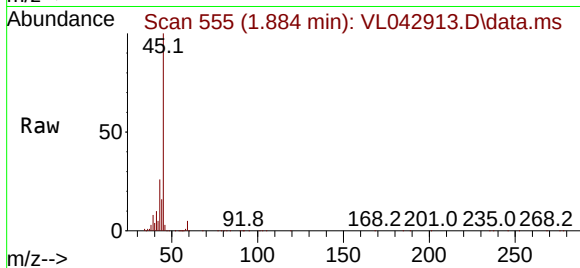




#19
Isopropyl Alcohol
Concen: 4.017 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

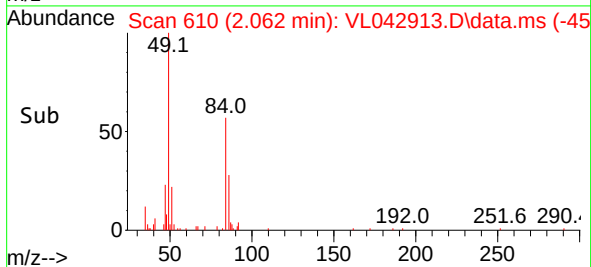
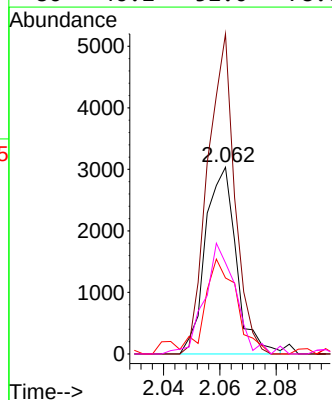
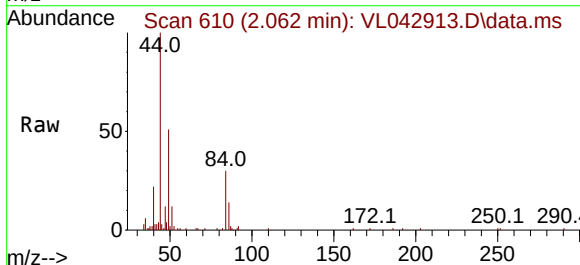
Instrument :
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ClientSampleId :
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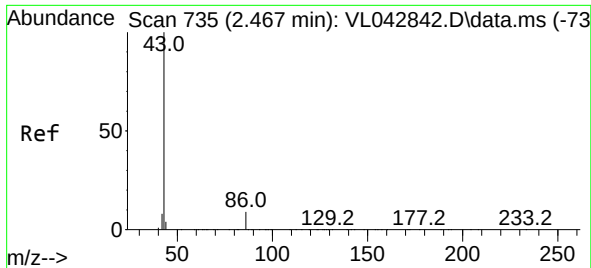
Tgt Ion: 45 Resp: 41906
Ion Ratio Lower Upper
45 100
58 2.4 32.7 49.1#



#20
Methylene Chloride
Concen: 0.315 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 84 Resp: 2308
Ion Ratio Lower Upper
84 100
49 171.4 112.3 168.5#
51 40.7 36.0 54.0
86 46.2 52.0 78.0#

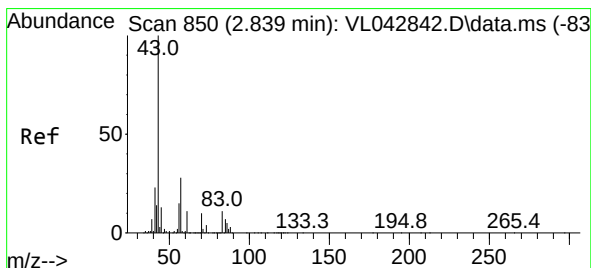
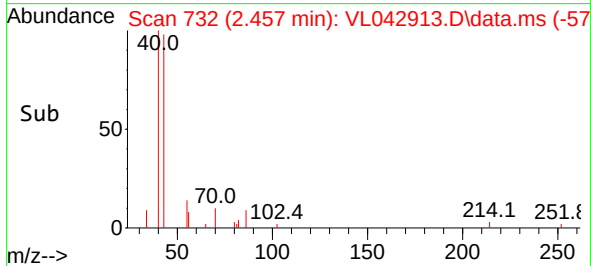
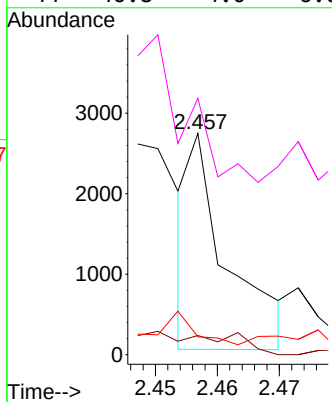
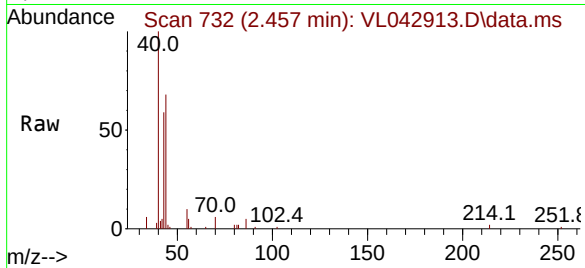




#23
 Vinyl Acetate
 Concen: 0.049 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042913.D
 Acq: 08 Sep 2025 21:08

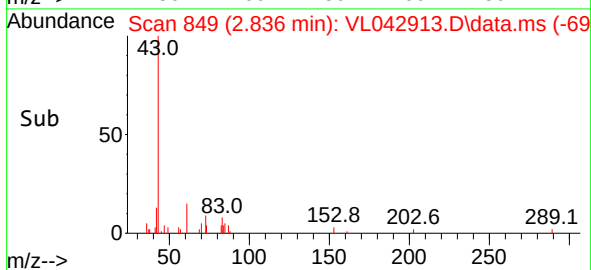
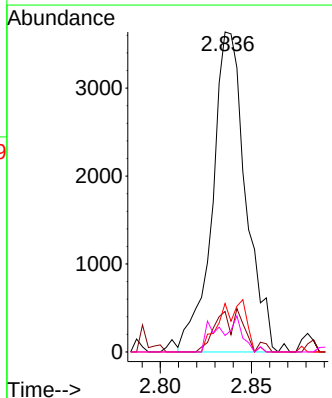
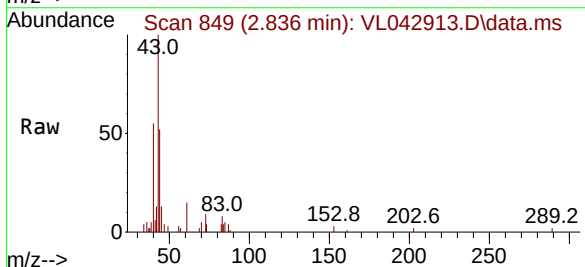
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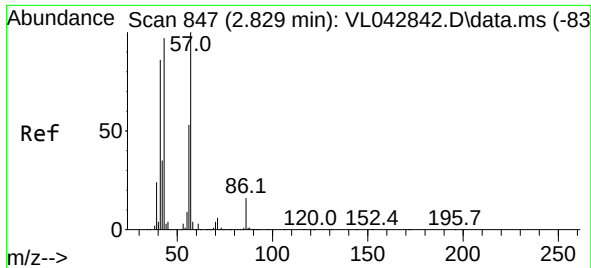
Tgt Ion:	43	Resp:	1166
Ion	Ratio	Lower	Upper
43	100		
86	11.5	6.6	9.8#
42	0.0	7.0	10.6#
44	40.8	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 0.109 ppbv
 RT: 2.836 min Scan# 849
 Delta R.T. 0.010 min
 Lab File: VL042913.D
 Acq: 08 Sep 2025 21:08

Tgt Ion:	43	Resp:	4625
Ion	Ratio	Lower	Upper
43	100		
45	11.3	8.1	12.1
61	13.0	7.4	11.2#
70	8.5	7.3	10.9

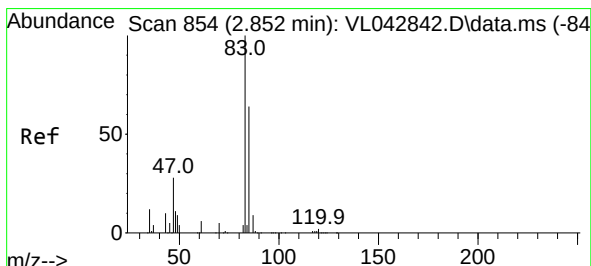
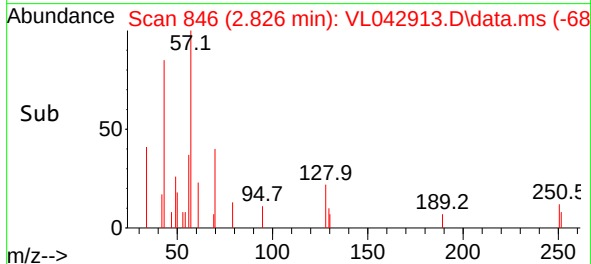
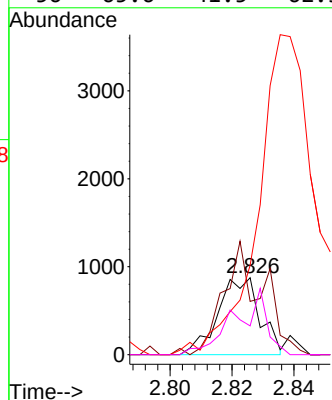
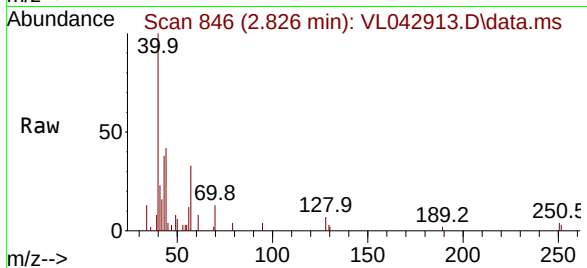




#26
Hexane
Concen: 0.042 ppbv
RT: 2.826 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

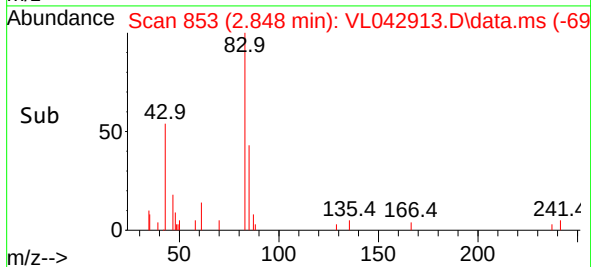
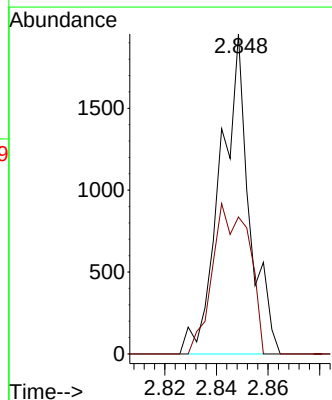
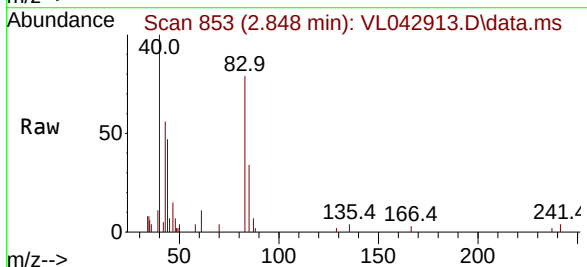
Instrument :
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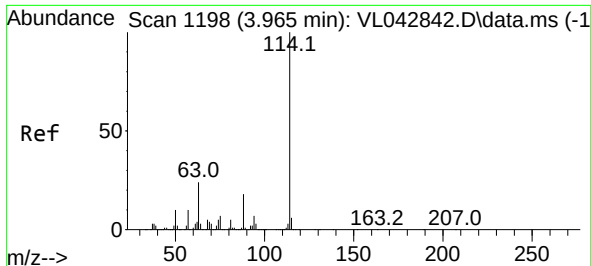
Tgt Ion: 57 Resp: 823
Ion Ratio Lower Upper
57 100
41 136.8 68.6 103.0#
43 0.0 168.5 252.7#
56 65.6 41.5 62.3#



#29
Chloroform
Concen: 0.055 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.010 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 83 Resp: 1526
Ion Ratio Lower Upper
83 100
85 42.8 51.1 76.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.013 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

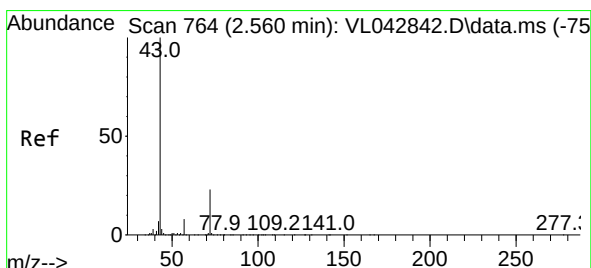
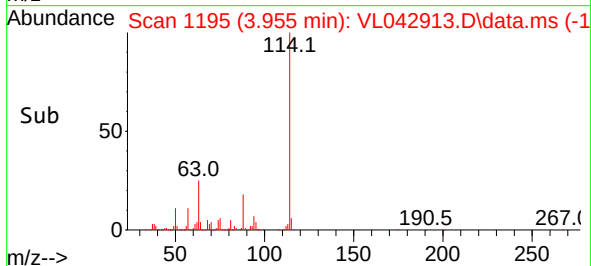
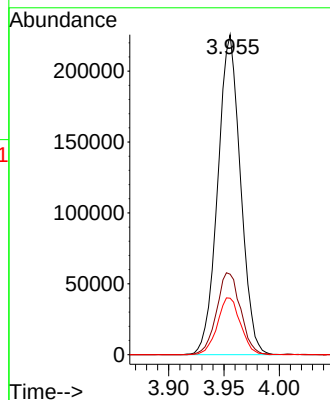
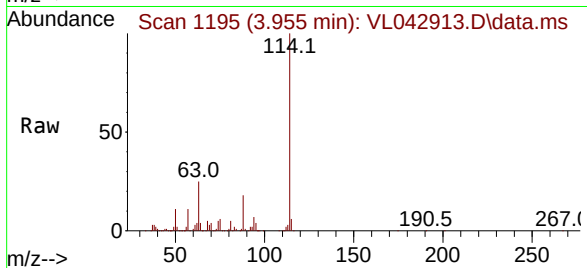
Tgt Ion:114 Resp: 322758

Ion Ratio Lower Upper

114 100

63 26.9 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.094 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.010 min

Lab File: VL042913.D

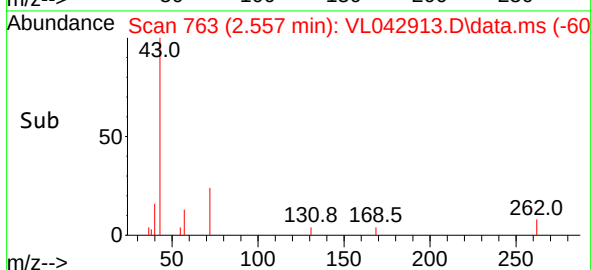
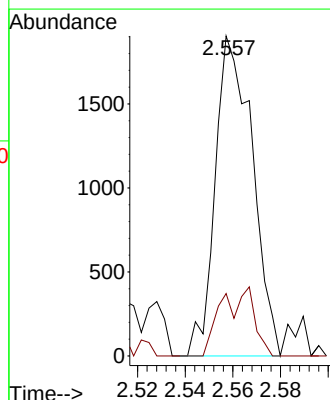
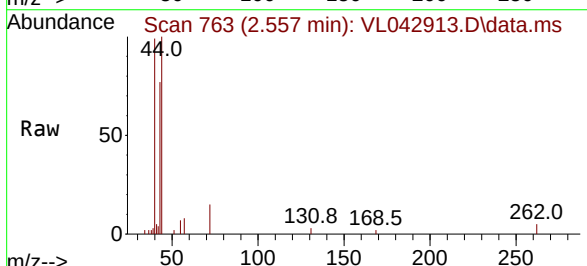
Acq: 08 Sep 2025 21:08

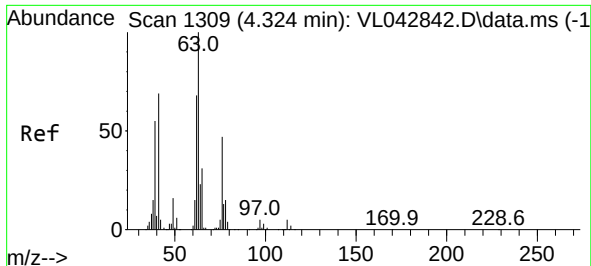
Tgt Ion: 43 Resp: 2059

Ion Ratio Lower Upper

43 100

72 19.1 18.6 28.0





#39

1,2-Dichloropropane

Concen: 7.704 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.346 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

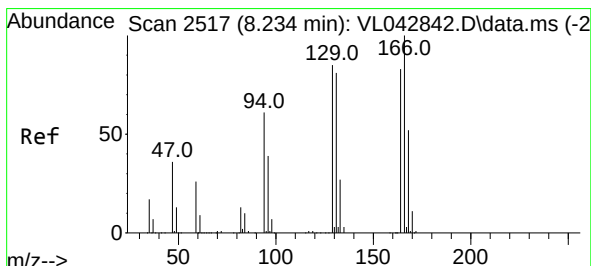
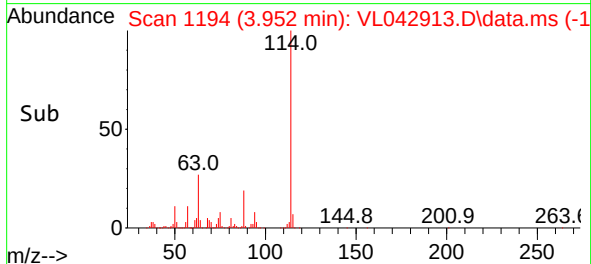
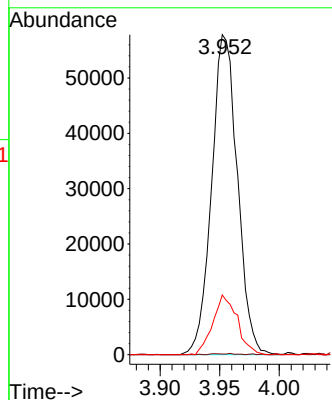
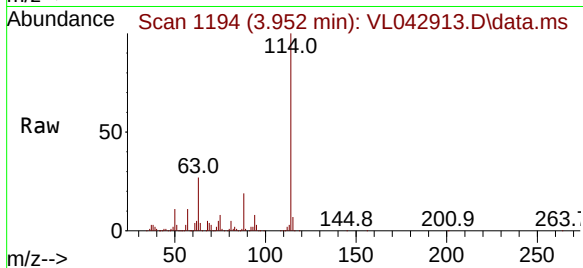
Tgt Ion: 63 Resp: 86957

Ion Ratio Lower Upper

63 100

41 0.2 55.0 82.4#

62 18.6 54.4 81.6#



#52

Tetrachloroethene

Concen: 5.098 ppbv

RT: 8.221 min Scan# 2513

Delta R.T. 0.010 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Tgt Ion:164 Resp: 57004

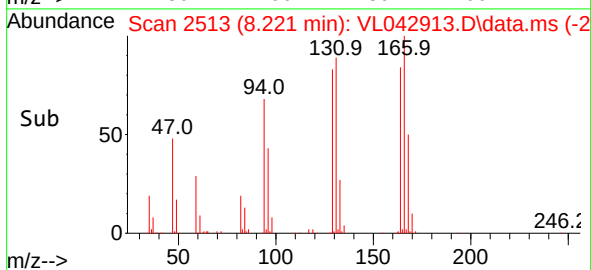
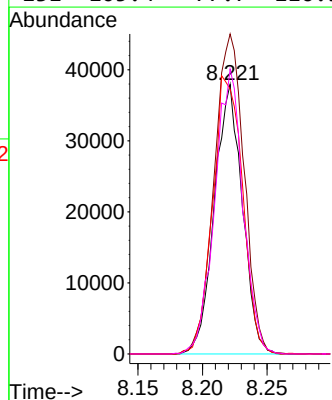
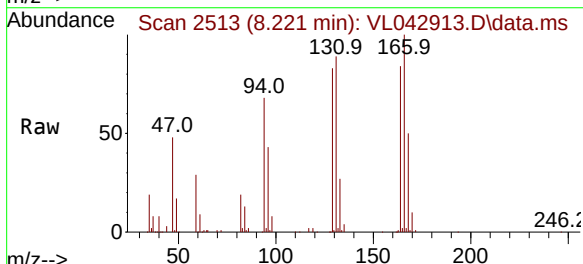
Ion Ratio Lower Upper

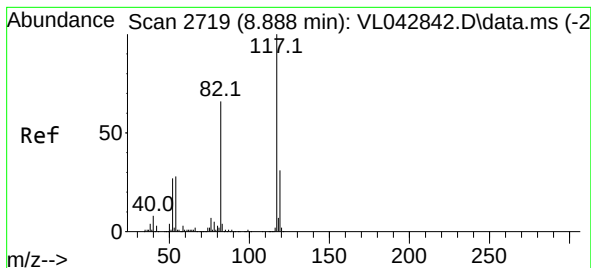
164 100

166 118.3 96.5 144.7

129 98.3 81.8 122.6

131 105.4 77.7 116.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

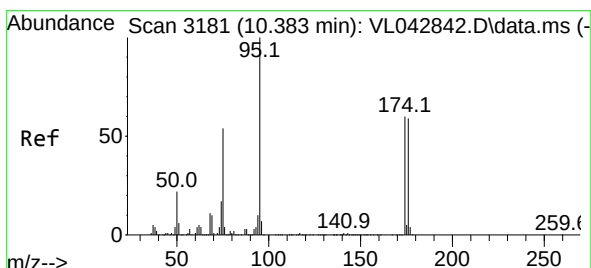
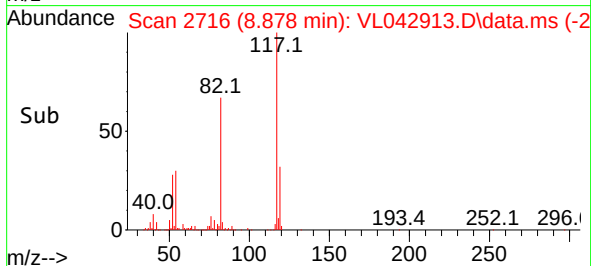
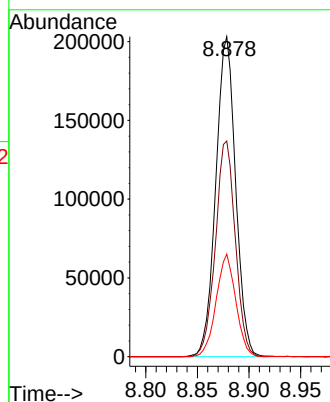
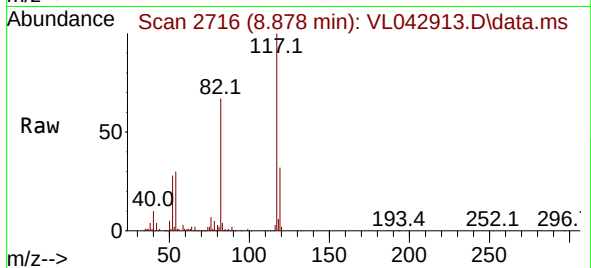
Tgt Ion:117 Resp: 271668

Ion Ratio Lower Upper

117 100

82 67.6 54.6 81.8

119 31.7 25.9 38.9



#68

1-Bromo-4-Fluorobenzene

Concen: 9.589 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. 0.010 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Tgt Ion: 95 Resp: 195379

Ion Ratio Lower Upper

95 100

174 55.1 48.4 72.6

175 3.8 3.8 5.8

