

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
 Data File : VL042162.D
 Acq On : 17 Mar 2025 17:33
 Operator : SY/MD
 Sample : Q1576-01DL2 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 565-SG-1DL2

Quant Time: Mar 18 01:28:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

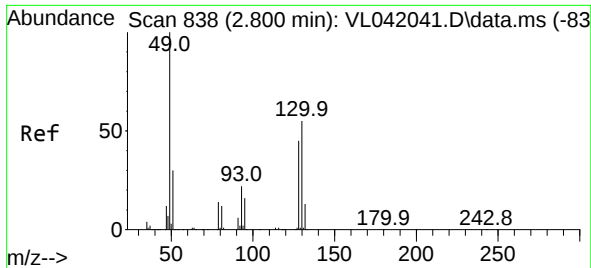
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	158742	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	380096	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	312036	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	235009	9.789	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
					Qvalue	
4) Chloromethane	1.538	50	201	0.033	ppbv #	70
9) Propene	1.625	41	4037	0.430	ppbv #	15
10) Heptane	5.001	43	9048	0.309	ppbv #	27
13) Ethanol	1.434	45	453120	759.438	ppbv	88
15) Acetone	1.848	43	162129	11.565	ppbv #	57
16) 1,3-Butadiene	1.625	39	1974	0.303	ppbv #	22
19) Isopropyl Alcohol	1.434	45	453120	56.270	ppbv #	32
20) Methylene Chloride	2.068	84	930	0.175	ppbv #	40
21) Allyl Chloride	2.085	41	19217	1.897	ppbv #	43
23) Vinyl Acetate	2.483	43	429414	43.564	ppbv #	44
25) Ethyl Acetate	2.836	43	109286	1.948	ppbv #	76
26) Hexane	2.836	57	150751	6.645	ppbv #	34
30) Cyclohexane	3.874	84	14644	0.795	ppbv #	77
34) 2-Butanone	2.635	43	60399	2.040	ppbv #	56
36) Benzene	3.671	78	14640	0.368	ppbv #	90
39) 1,2-Dichloropropane	3.972	63	97190	6.435	ppbv #	23
41) Tetrahydrofuran	3.127	42	2262	0.129	ppbv #	38

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

Quant Time: Mar 18 01:28:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
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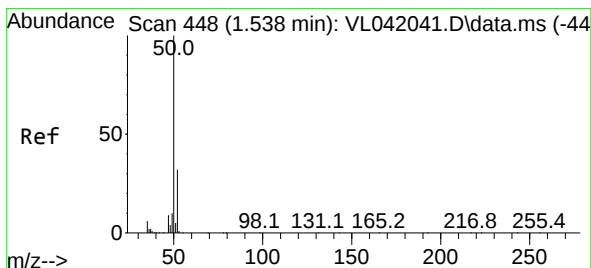
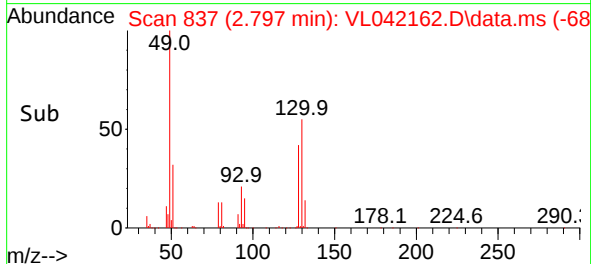
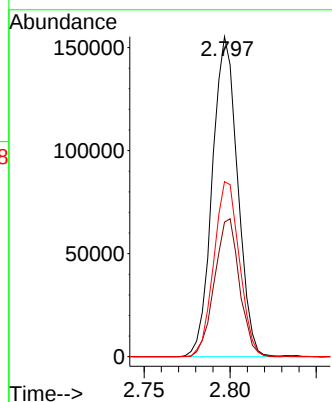
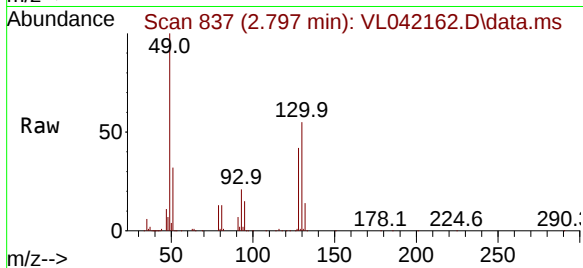




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

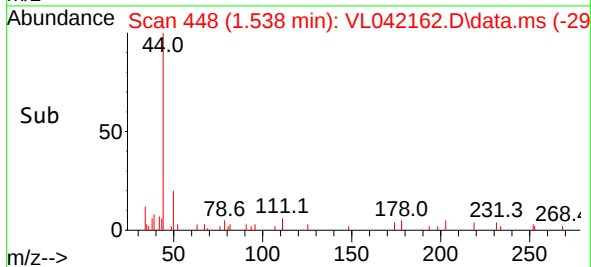
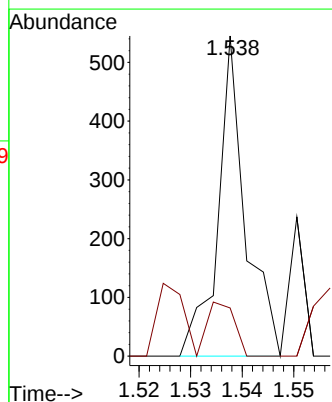
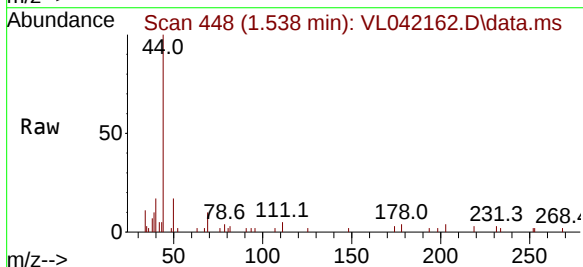
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

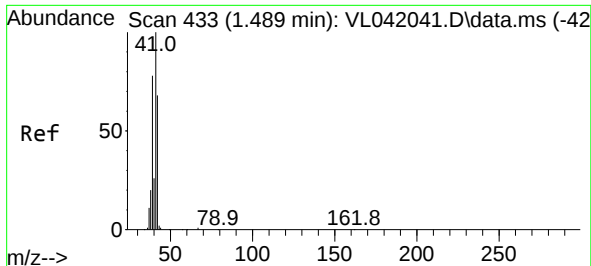
Tgt Ion: 49 Resp: 158742
Ion Ratio Lower Upper
49 100
128 42.7 21.6 64.8
130 55.3 27.8 83.4



#4
Chloromethane
Concen: 0.033 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

Tgt Ion: 50 Resp: 201
Ion Ratio Lower Upper
50 100
52 15.0 25.4 38.0#





#9

Propene

Concen: 0.430 ppbv

RT: 1.625 min Scan# 41

Delta R.T. 0.136 min

Lab File: VL042162.D

Acq: 17 Mar 2025 17:33

Instrument :

MSVOA_L

ClientSampleId :

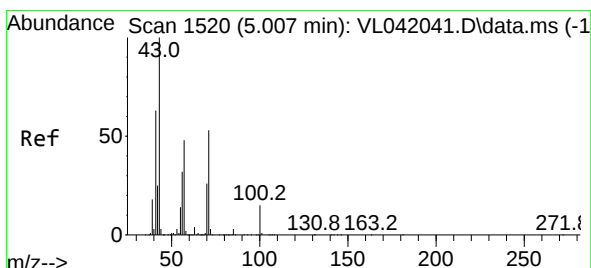
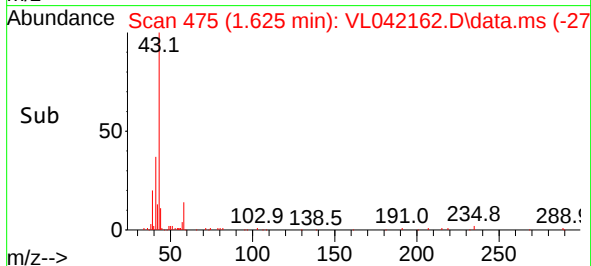
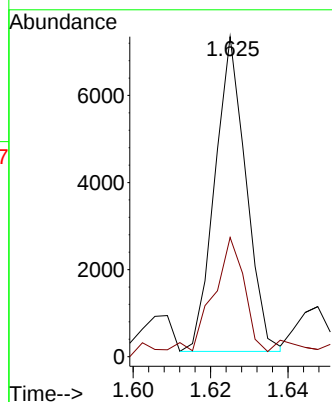
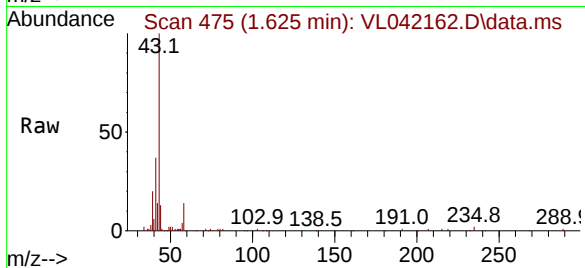
565-SG-1DL2

Tgt Ion: 41 Resp: 4037

Ion Ratio Lower Upper

41 100

42 0.0 55.8 83.6#



#10

Heptane

Concen: 0.309 ppbv

RT: 5.001 min Scan# 1518

Delta R.T. -0.007 min

Lab File: VL042162.D

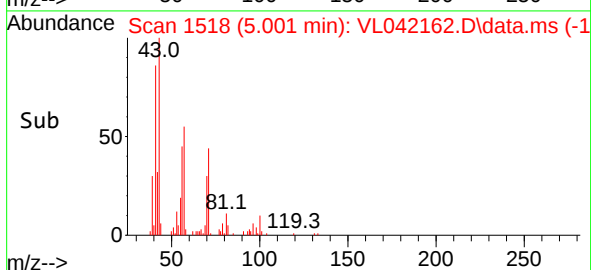
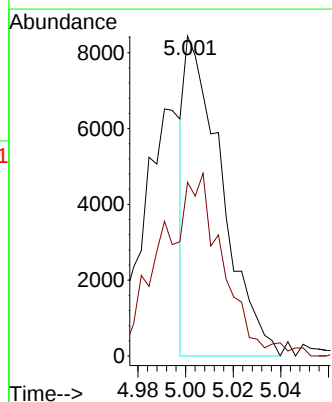
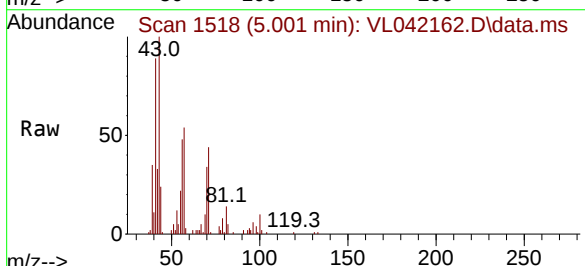
Acq: 17 Mar 2025 17:33

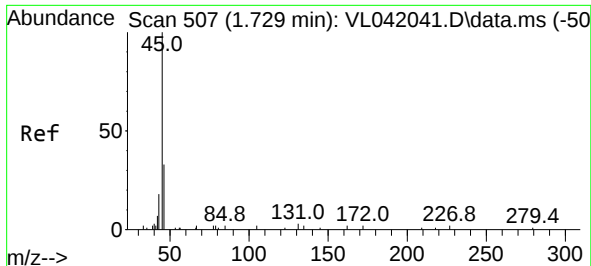
Tgt Ion: 43 Resp: 9048

Ion Ratio Lower Upper

43 100

57 98.9 39.4 59.0#

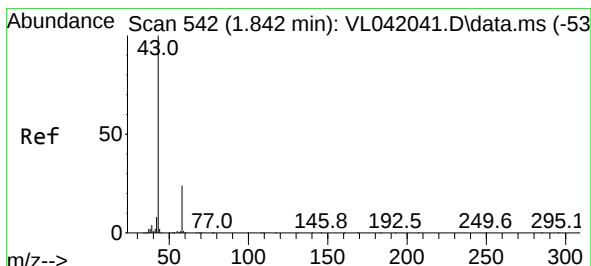
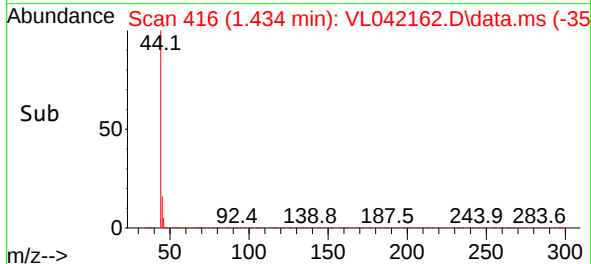
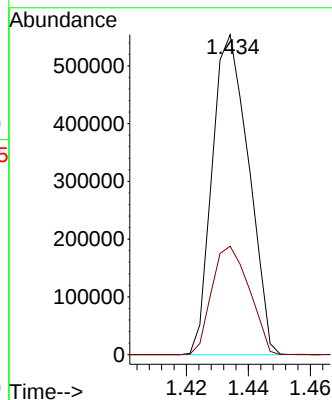
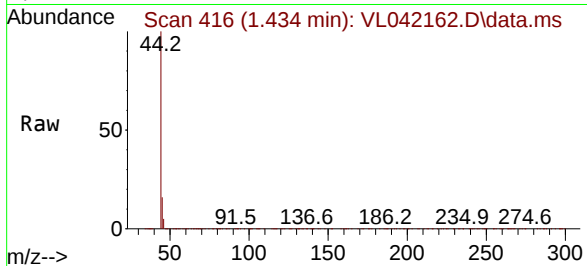




#13
 Ethanol
 Concen: 759.438 ppbv
 RT: 1.434 min Scan# 41
 Delta R.T. -0.295 min
 Lab File: VL042162.D
 Acq: 17 Mar 2025 17:33

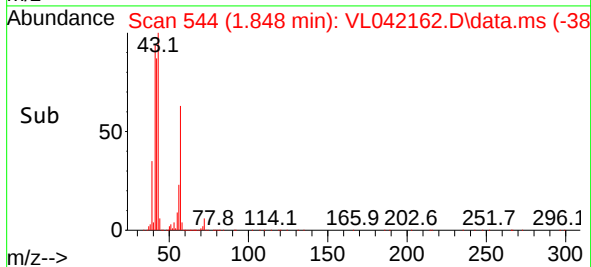
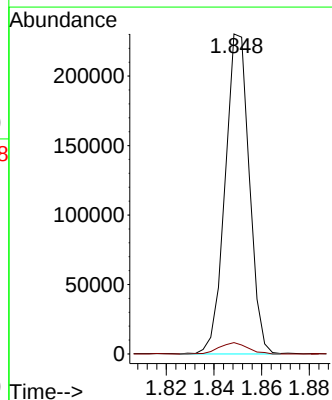
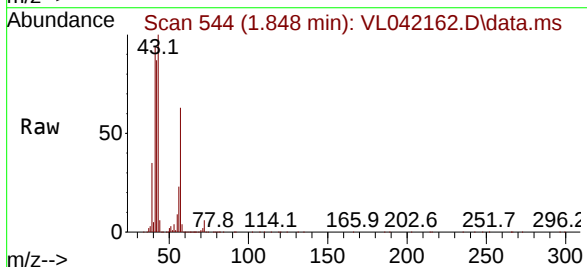
Instrument :
 MSVOA_1
 ClientSampleId :
 565-SG-1DL2

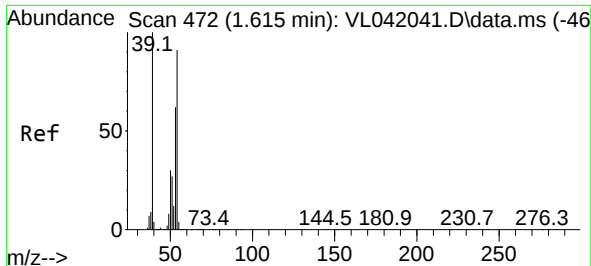
Tgt Ion: 45 Resp: 453120
 Ion Ratio Lower Upper
 45 100
 46 35.0 17.1 68.3



#15
 Acetone
 Concen: 11.565 ppbv
 RT: 1.848 min Scan# 544
 Delta R.T. 0.006 min
 Lab File: VL042162.D
 Acq: 17 Mar 2025 17:33

Tgt Ion: 43 Resp: 162129
 Ion Ratio Lower Upper
 43 100
 58 4.2 20.7 31.1#

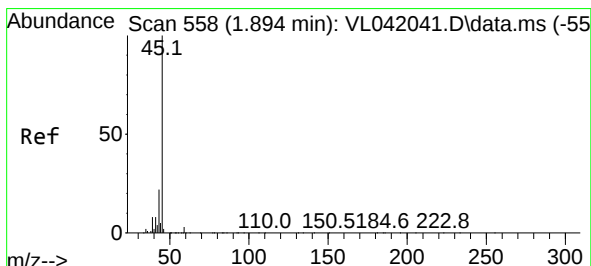
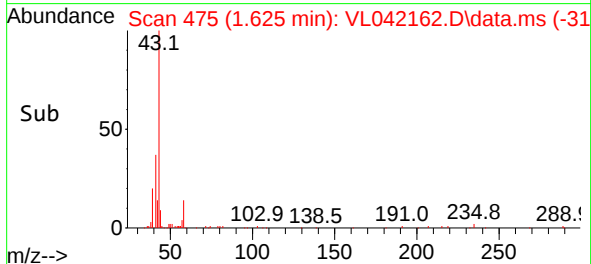
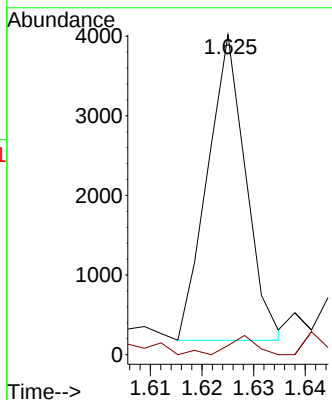
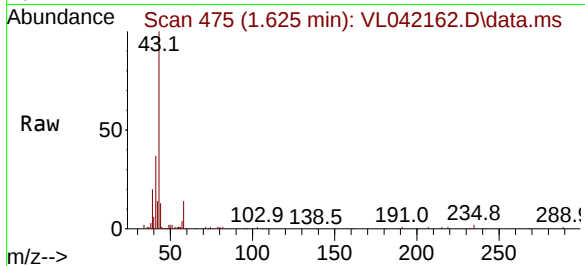




#16
1,3-Butadiene
Concen: 0.303 ppbv
RT: 1.625 min Scan# 416
Delta R.T. 0.010 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

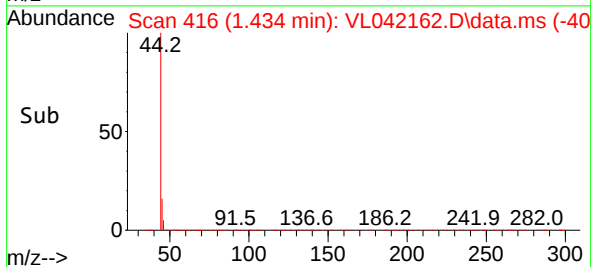
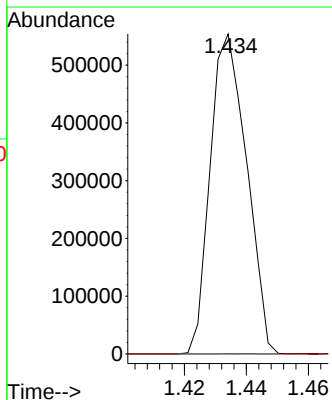
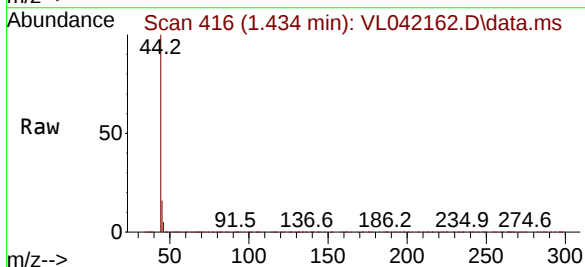
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

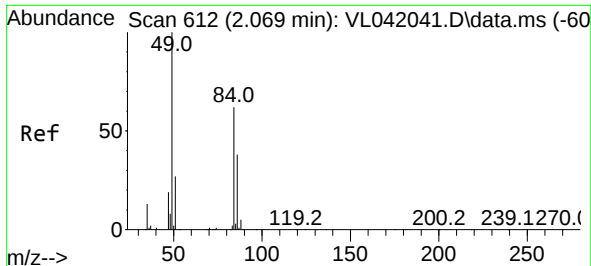
Tgt Ion: 39 Resp: 1974
Ion Ratio Lower Upper
39 100
54 8.0 59.6 89.4#



#19
Isopropyl Alcohol
Concen: 56.270 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.460 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

Tgt Ion: 45 Resp: 453120
Ion Ratio Lower Upper
45 100
58 0.3 35.3 52.9#

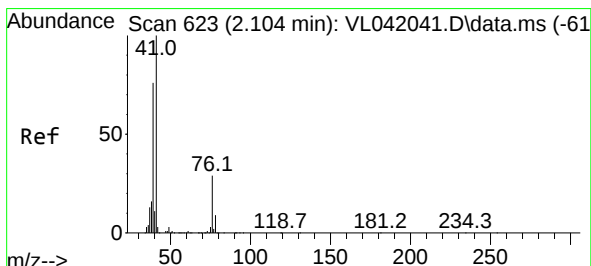
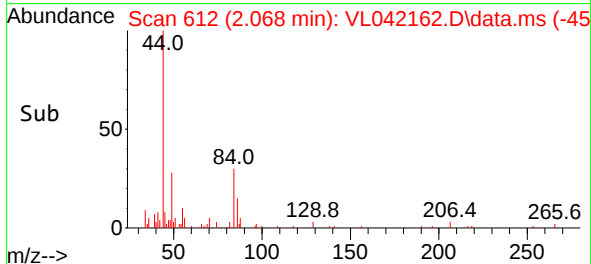
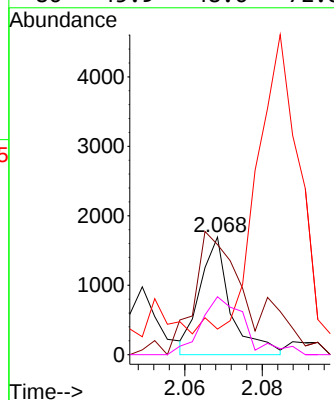
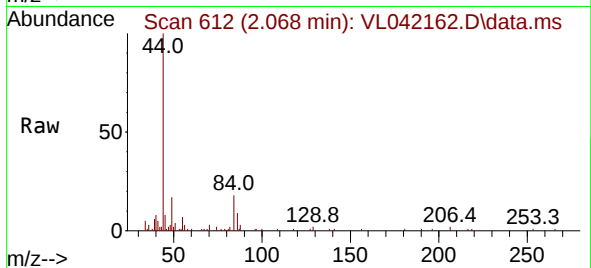




#20
Methylene Chloride
Concen: 0.175 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

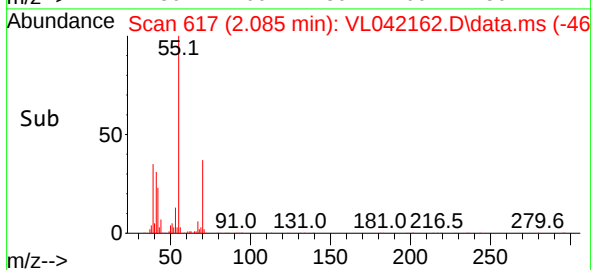
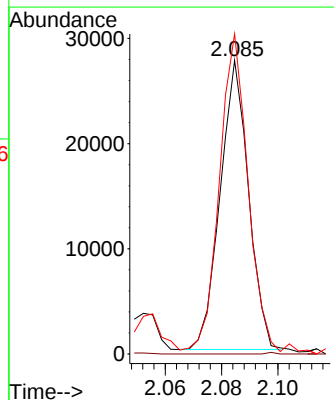
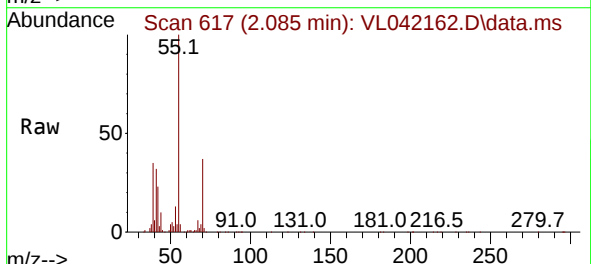
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

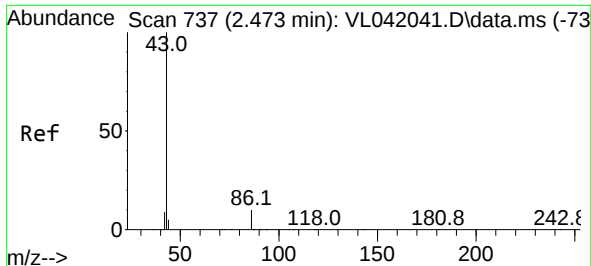
Tgt Ion:	84	Resp:	930
Ion	Ratio	Lower	Upper
84	100		
49	66.8	130.0	195.0#
51	0.0	37.4	56.0#
86	45.9	48.6	72.8#



#21
Allyl Chloride
Concen: 1.897 ppbv
RT: 2.085 min Scan# 617
Delta R.T. -0.020 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

Tgt Ion:	41	Resp:	19217
Ion	Ratio	Lower	Upper
41	100		
76	0.2	23.8	35.6#
39	131.1	63.8	95.6#

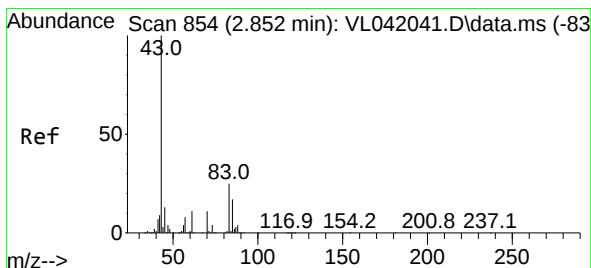
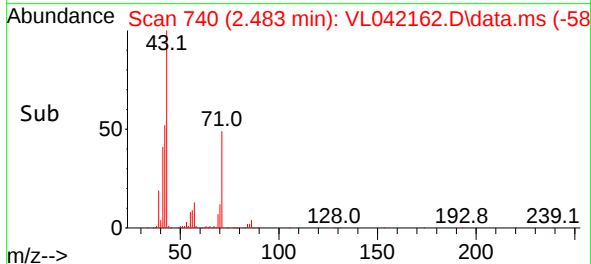
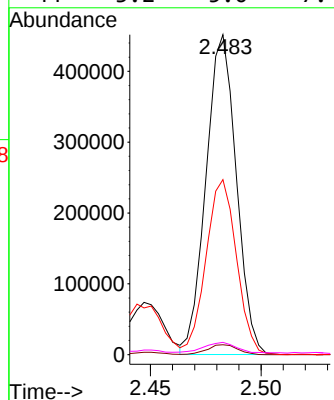
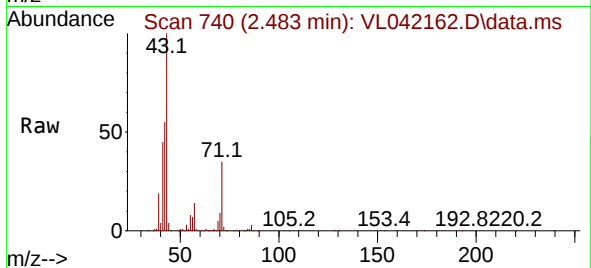




#23
 Vinyl Acetate
 Concen: 43.564 ppbv
 RT: 2.483 min Scan# 741
 Delta R.T. 0.010 min
 Lab File: VL042162.D
 Acq: 17 Mar 2025 17:33

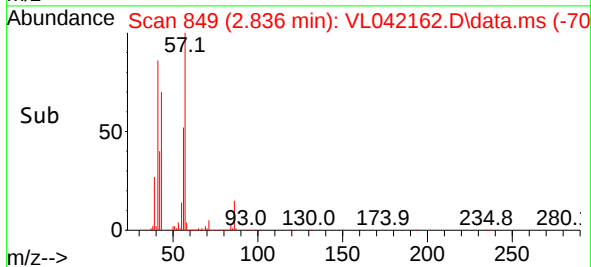
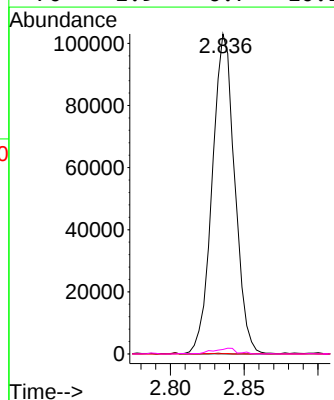
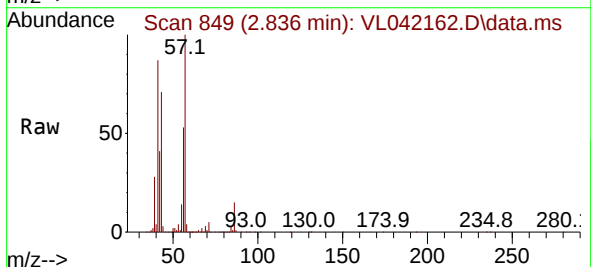
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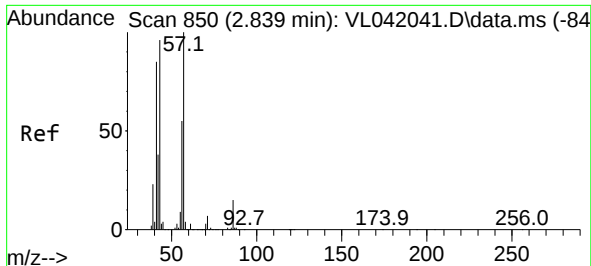
Tgt Ion: 43 Resp: 429414
 Ion Ratio Lower Upper
 43 100
 86 3.1 7.0 10.4#
 42 54.7 7.6 11.4#
 44 3.2 5.0 7.4#



#25
 Ethyl Acetate
 Concen: 1.948 ppbv
 RT: 2.836 min Scan# 849
 Delta R.T. -0.016 min
 Lab File: VL042162.D
 Acq: 17 Mar 2025 17:33

Tgt Ion: 43 Resp: 109286
 Ion Ratio Lower Upper
 43 100
 45 0.1 8.1 12.1#
 61 0.1 7.2 10.8#
 70 1.9 6.7 10.1#

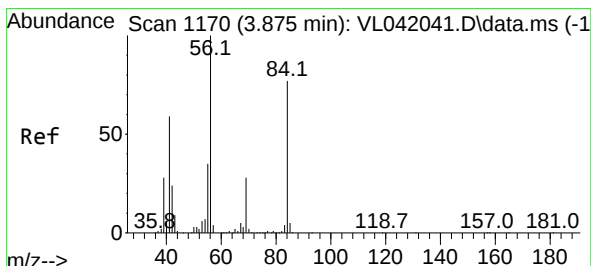
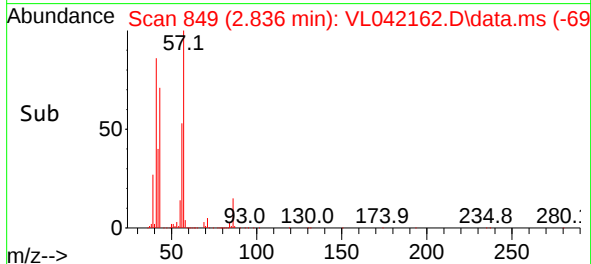
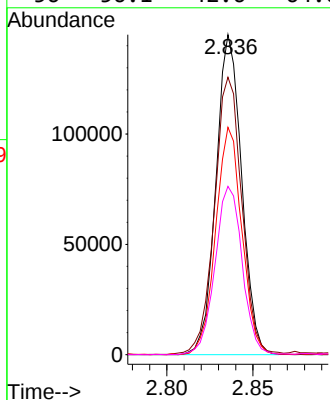
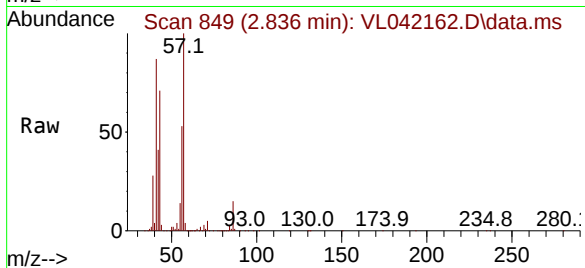




#26
Hexane
Concen: 6.645 ppbv
RT: 2.836 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

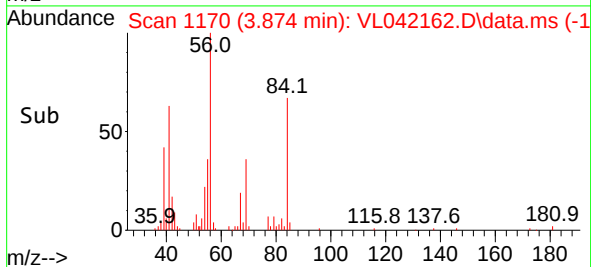
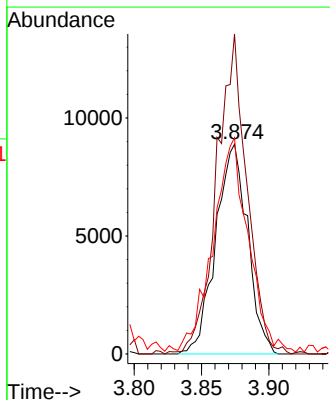
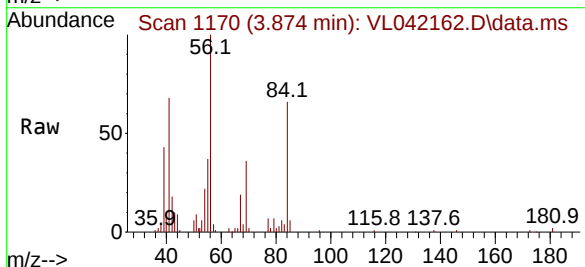
Instrument :
MSVOA_L
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565-SG-1DL2

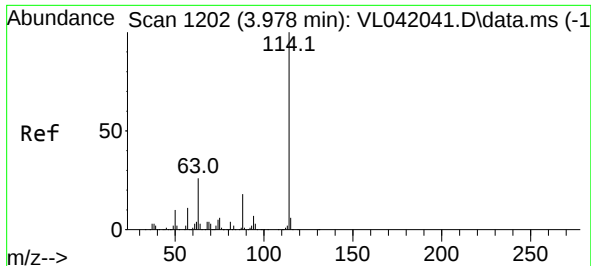
Tgt Ion: 57 Resp: 150751
Ion Ratio Lower Upper
57 100
41 93.1 70.6 106.0
43 72.9 199.4 299.0#
56 56.1 42.6 64.0



#30
Cyclohexane
Concen: 0.795 ppbv
RT: 3.874 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

Tgt Ion: 84 Resp: 14644
Ion Ratio Lower Upper
84 100
56 144.7 101.5 152.3
41 108.2 62.6 93.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042162.D

Acq: 17 Mar 2025 17:33

Instrument :

MSVOA_L

ClientSampleId :

565-SG-1DL2

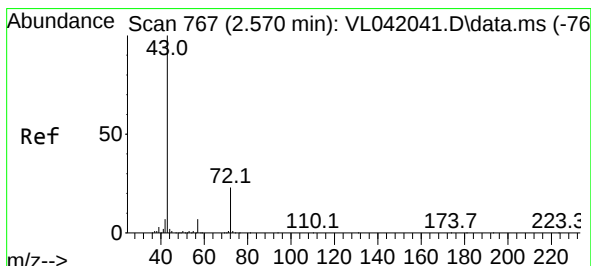
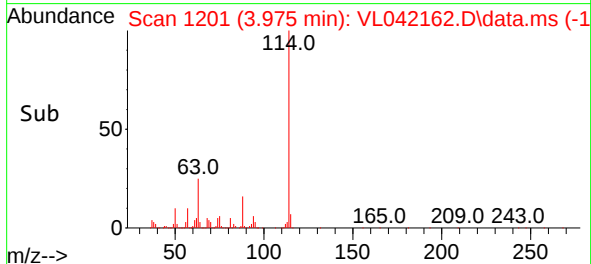
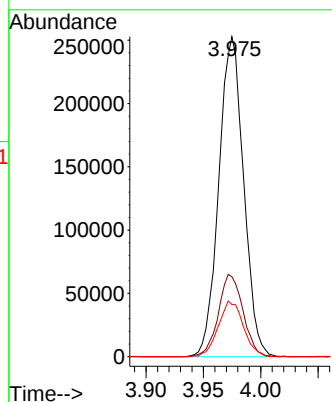
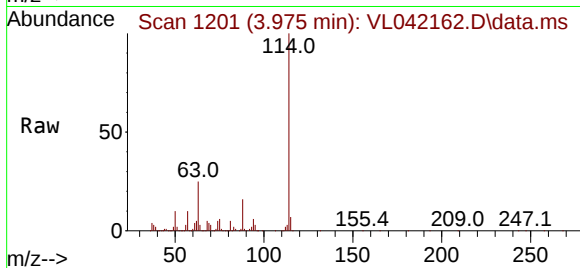
Tgt Ion:114 Resp: 380096

Ion Ratio Lower Upper

114 100

63 25.6 20.1 30.1

88 17.5 14.3 21.5



#34

2-Butanone

Concen: 2.040 ppbv

RT: 2.635 min Scan# 787

Delta R.T. 0.065 min

Lab File: VL042162.D

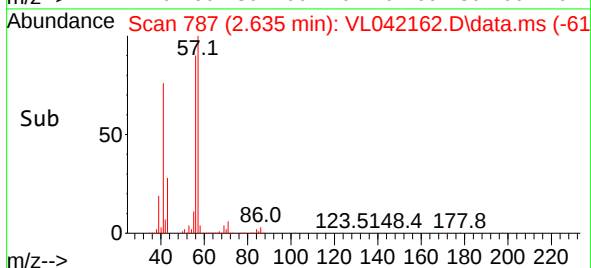
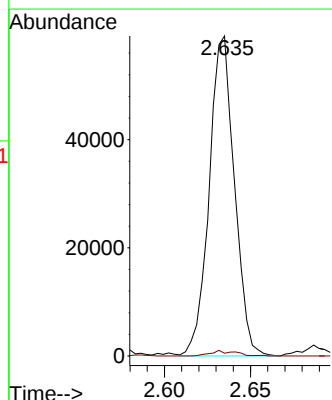
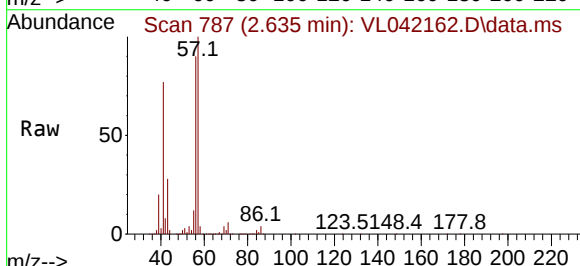
Acq: 17 Mar 2025 17:33

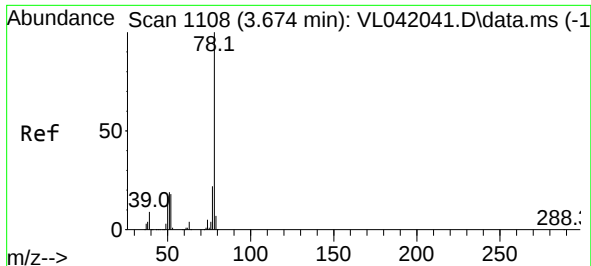
Tgt Ion: 43 Resp: 60399

Ion Ratio Lower Upper

43 100

72 1.7 18.5 27.7#

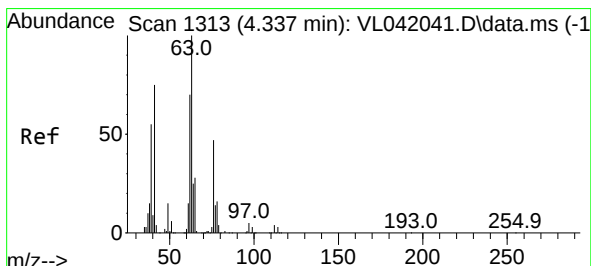
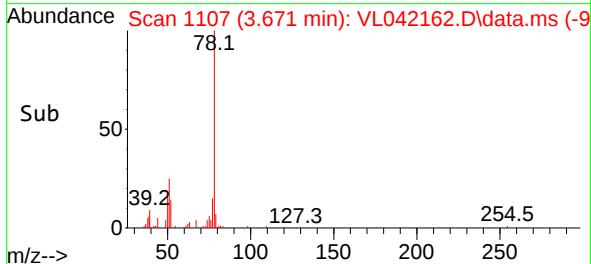
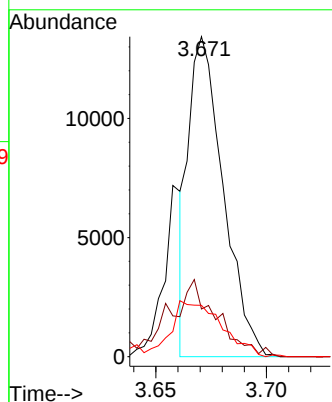
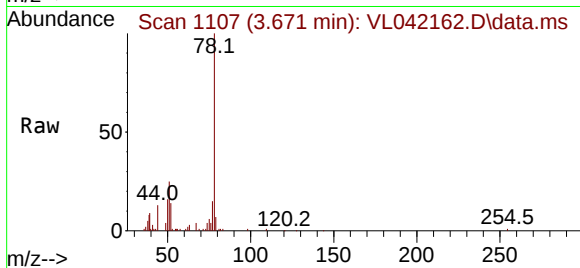




#36
Benzene
Concen: 0.368 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

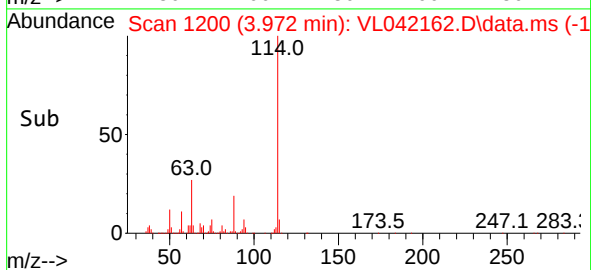
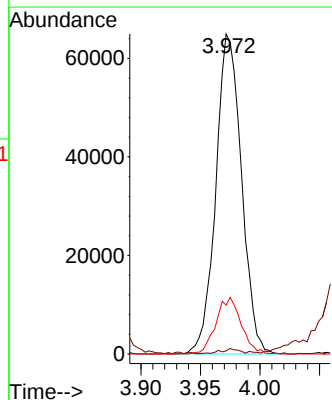
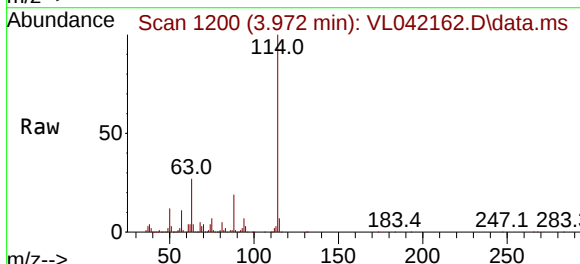
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

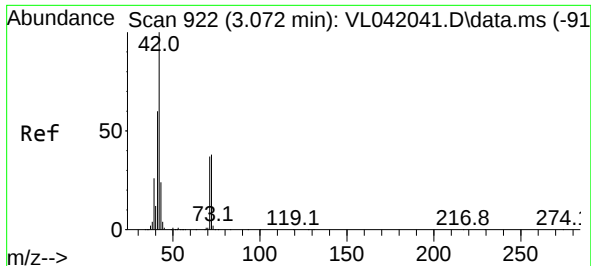
Tgt Ion: 78 Resp: 14640
Ion Ratio Lower Upper
78 100
77 14.9 17.7 26.5#
50 15.6 13.9 20.9



#39
1,2-Dichloropropane
Concen: 6.435 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.366 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

Tgt Ion: 63 Resp: 97190
Ion Ratio Lower Upper
63 100
41 0.4 60.1 90.1#
62 15.3 55.8 83.8#

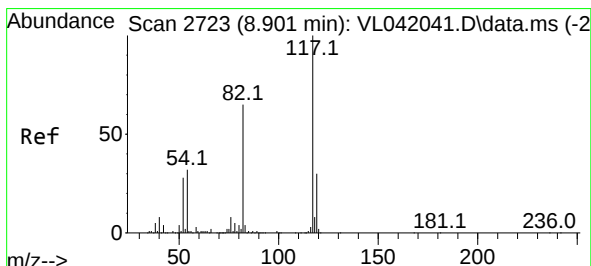
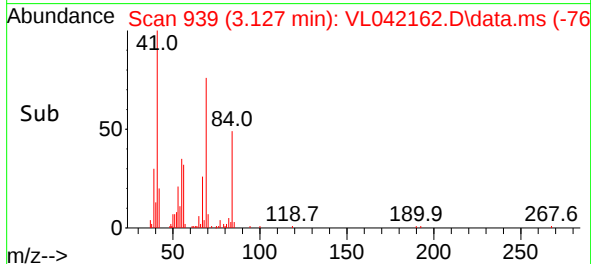
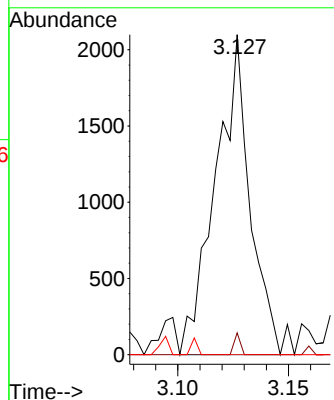
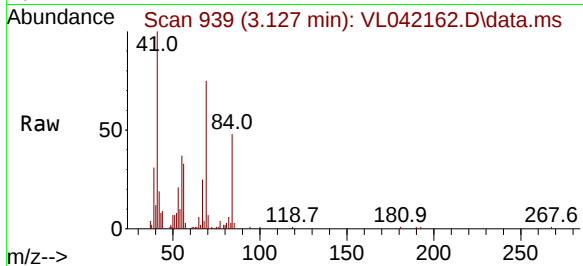




#41
Tetrahydrofuran
Concen: 0.129 ppbv
RT: 3.127 min Scan# 91
Delta R.T. 0.055 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

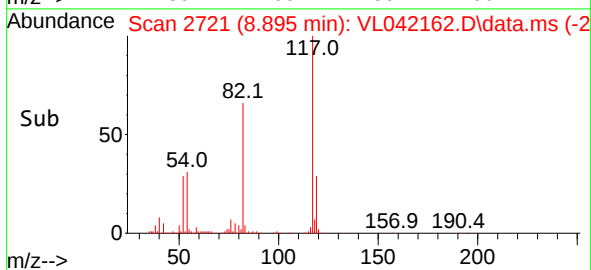
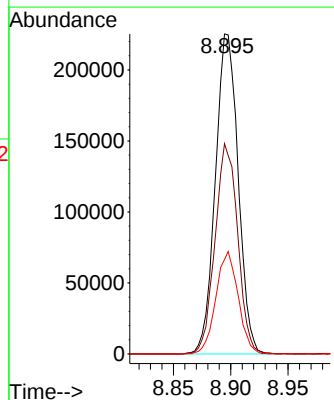
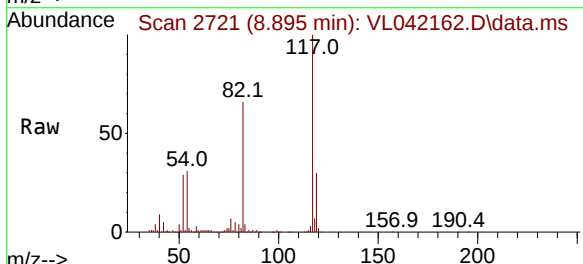
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

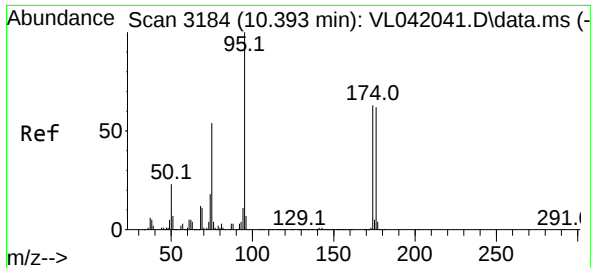
Tgt Ion: 42 Resp: 2262
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 0.0 28.2 42.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. -0.007 min
Lab File: VL042162.D
Acq: 17 Mar 2025 17:33

Tgt Ion: 117 Resp: 312036
Ion Ratio Lower Upper
117 100
82 65.3 55.0 82.6
119 31.3 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.789 ppbv
 RT: 10.390 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042162.D
 Acq: 17 Mar 2025 17:33

Instrument :
 MSVOA_L
 ClientSampleId :
 565-SG-1DL2

Tgt Ion: 95 Resp: 235009
 Ion Ratio Lower Upper
 95 100
 174 64.4 51.8 77.6
 175 4.8 3.9 5.9

