

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
 Data File : VL042161.D
 Acq On : 17 Mar 2025 17:01
 Operator : SY/MD
 Sample : Q1586-01DL2 600X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 565-SG-1DL2

Quant Time: Mar 18 01:27:53 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

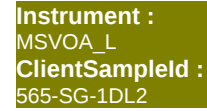
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

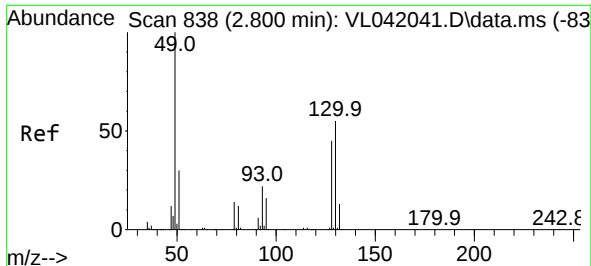
Internal Standards						
1) Bromochloromethane	2.797	49	159357	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	390233	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	317448	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	242589	9.933	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.625	51	866	0.037	ppbv	99
4) Chloromethane	1.535	50	184	0.030	ppbv #	12
9) Propene	1.625	41	5306	0.562	ppbv #	15
10) Heptane	4.998	43	29095	0.990	ppbv	91
13) Ethanol	1.431	45	402580	672.128	ppbv	89
15) Acetone	1.849	43	245438	17.440	ppbv #	57
16) 1,3-Butadiene	1.625	39	2984	0.456	ppbv #	20
19) Isopropyl Alcohol	1.431	45	402580	49.801	ppbv #	33
20) Methylene Chloride	2.069	84	1120	0.210	ppbv #	67
21) Allyl Chloride	2.082	41	30644	3.014	ppbv #	51
23) Vinyl Acetate	2.480	43	654365	66.129	ppbv #	45
25) Ethyl Acetate	2.836	43	170004	3.018	ppbv #	76
26) Hexane	2.836	57	235603	10.346	ppbv #	34
30) Cyclohexane	3.872	84	23988	1.298	ppbv #	77
34) 2-Butanone	2.632	43	93446	3.074	ppbv #	55
36) Benzene	3.668	78	28676	0.702	ppbv	94
39) 1,2-Dichloropropane	3.972	63	97932	6.316	ppbv #	23
41) Tetrahydrofuran	3.033	42	1076	0.060	ppbv #	41

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

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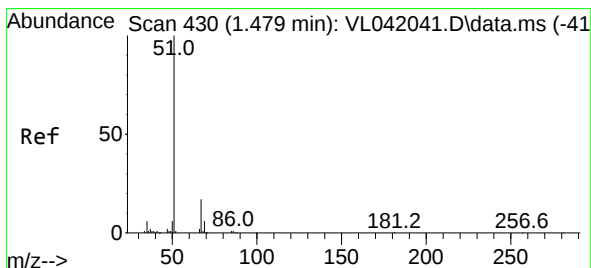
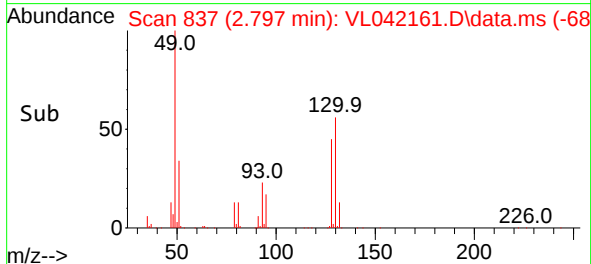
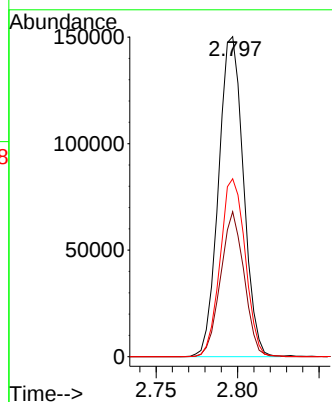
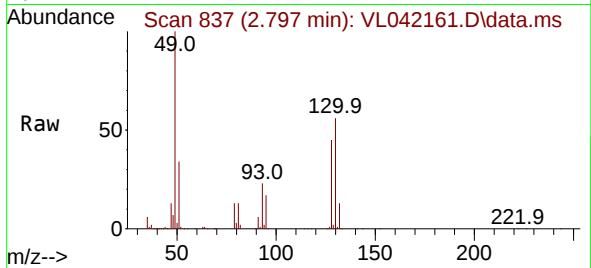




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

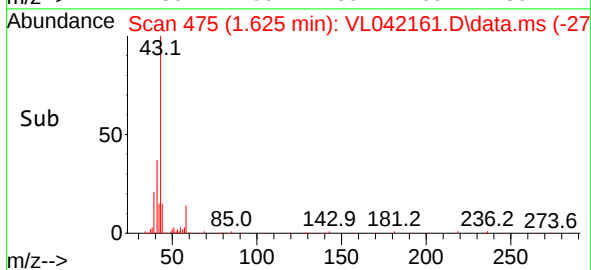
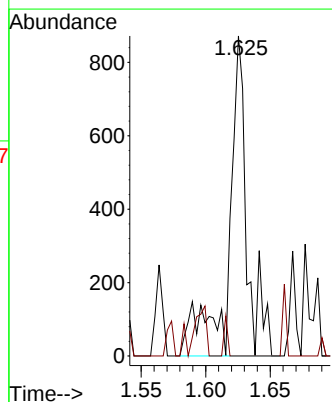
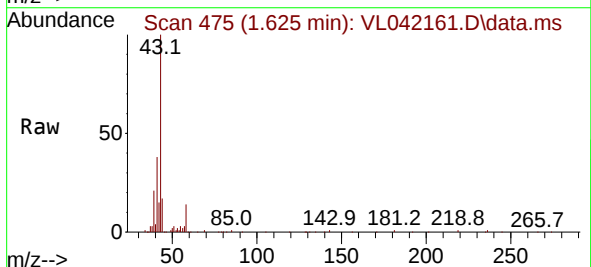
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

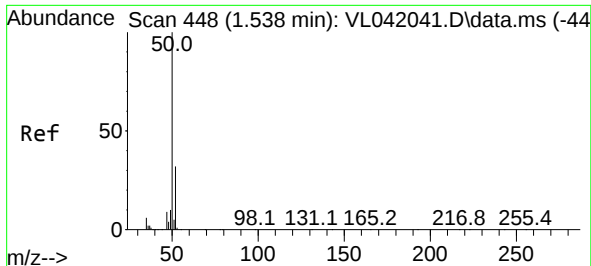
Tgt Ion: 49 Resp: 159357
Ion Ratio Lower Upper
49 100
128 42.8 21.6 64.8
130 56.0 27.8 83.4



#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.146 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

Tgt Ion: 51 Resp: 866
Ion Ratio Lower Upper
51 100
67 17.3 13.7 20.5

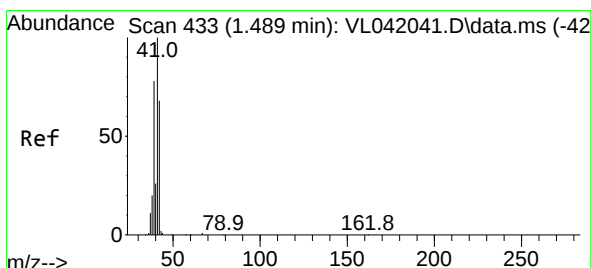
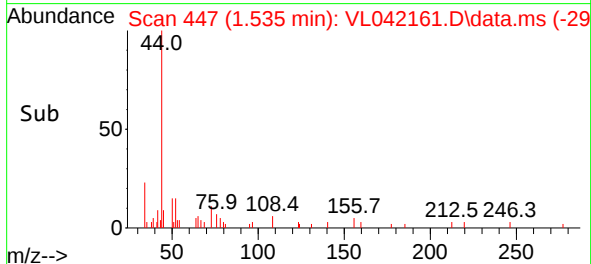
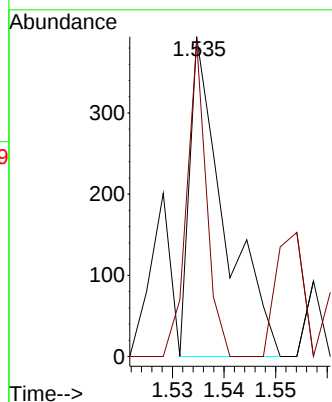
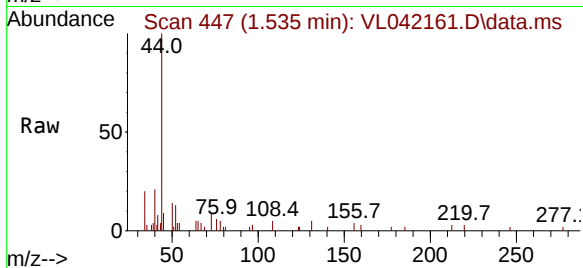




#4
Chloromethane
Concen: 0.030 ppbv
RT: 1.535 min Scan# 448
Delta R.T. -0.003 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

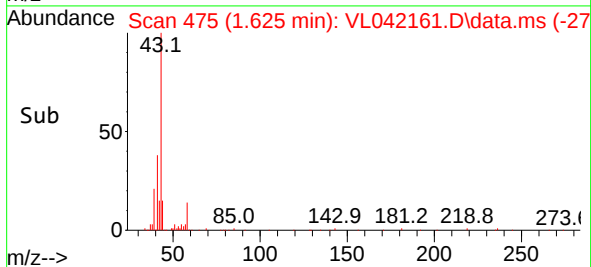
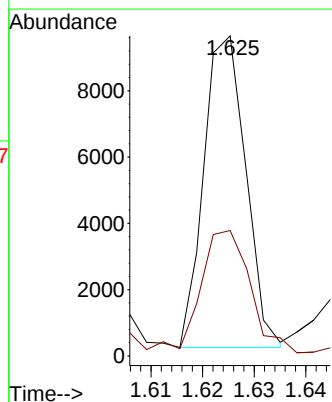
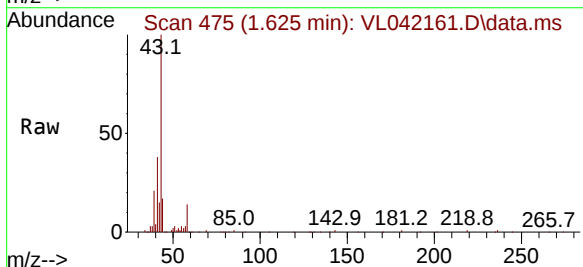
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

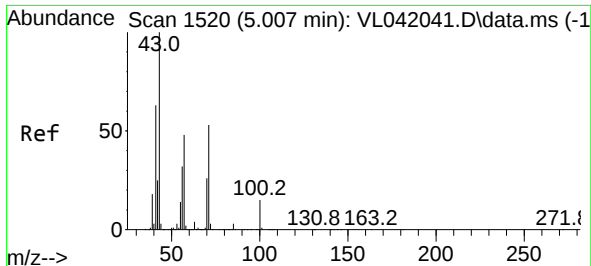
Tgt Ion: 50 Resp: 184
Ion Ratio Lower Upper
50 100
52 80.7 25.4 38.0#



#9
Propene
Concen: 0.562 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.136 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

Tgt Ion: 41 Resp: 5306
Ion Ratio Lower Upper
41 100
42 0.0 55.8 83.6#

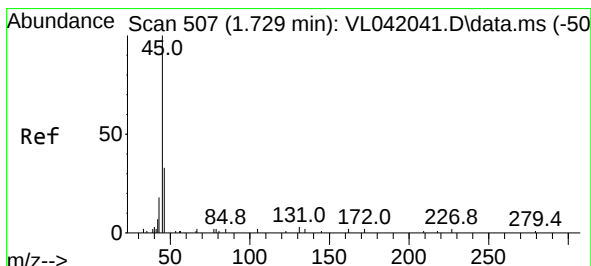
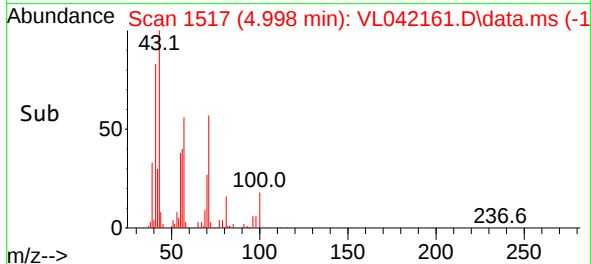
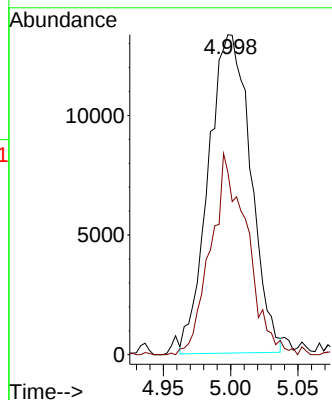
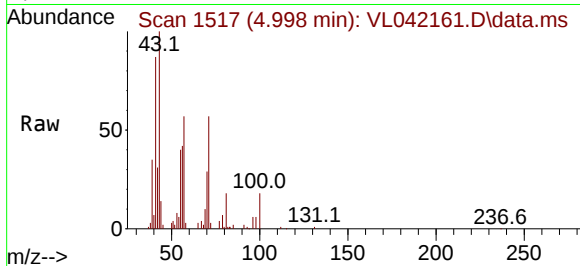




#10
Heptane
Concen: 0.990 ppbv
RT: 4.998 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

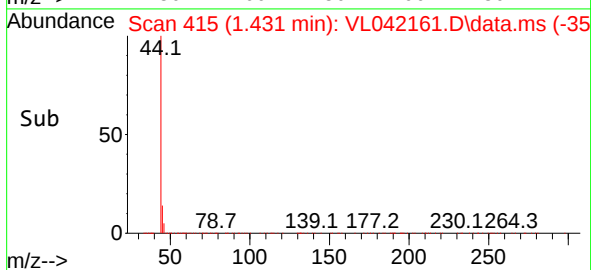
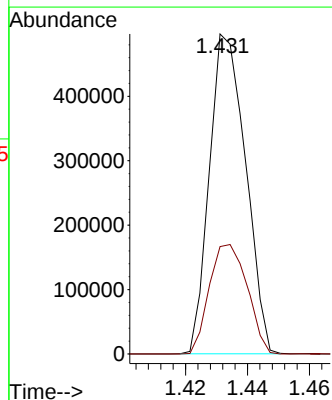
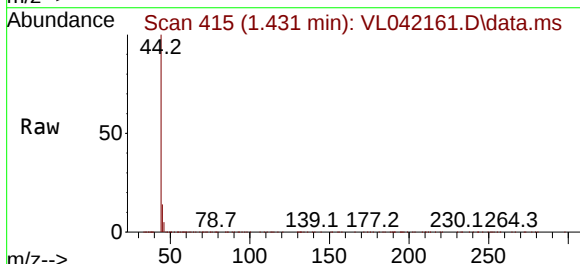
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

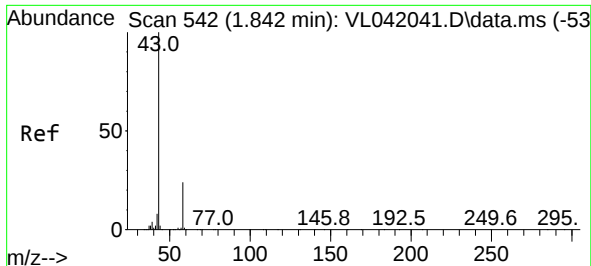
Tgt Ion: 43 Resp: 29095
Ion Ratio Lower Upper
43 100
57 55.1 39.4 59.0



#13
Ethanol
Concen: 672.128 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.298 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

Tgt Ion: 45 Resp: 402580
Ion Ratio Lower Upper
45 100
46 35.9 17.1 68.3

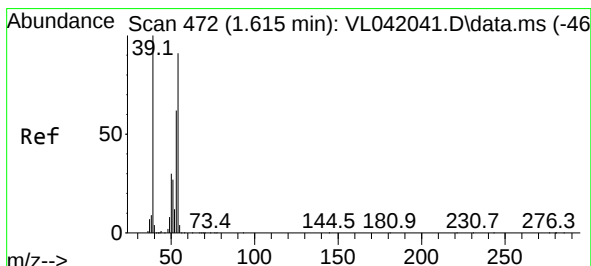
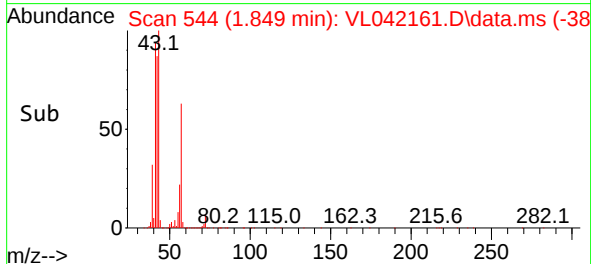
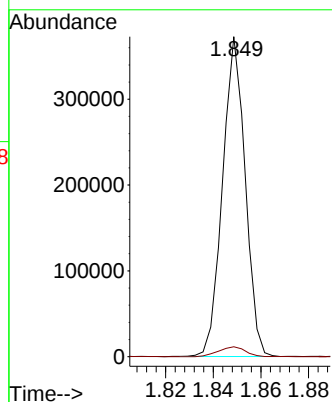
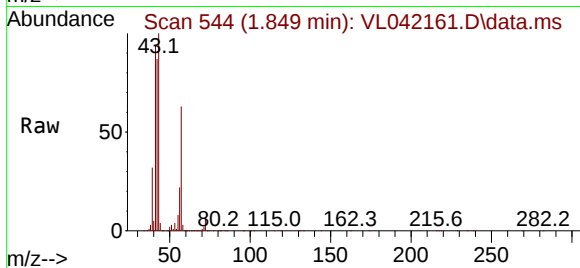




#15
Acetone
Concen: 17.440 ppbv
RT: 1.849 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

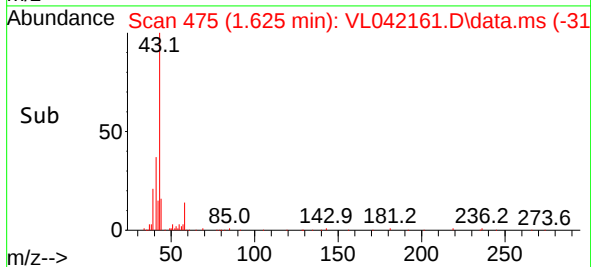
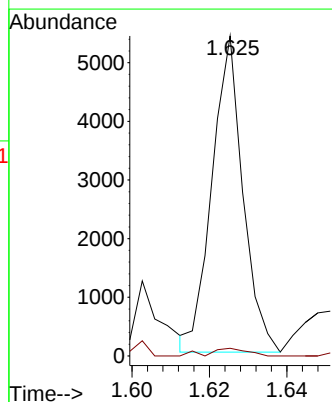
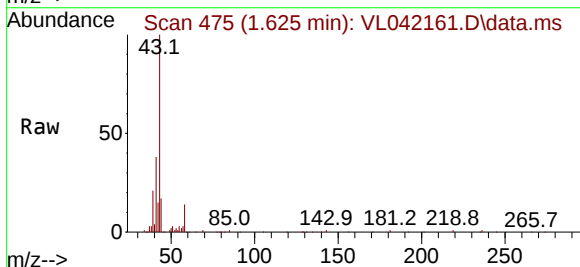
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

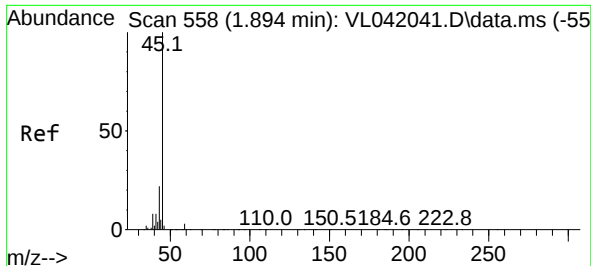
Tgt Ion: 43 Resp: 245438
Ion Ratio Lower Upper
43 100
58 3.8 20.7 31.1#



#16
1,3-Butadiene
Concen: 0.456 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.010 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

Tgt Ion: 39 Resp: 2984
Ion Ratio Lower Upper
39 100
54 6.3 59.6 89.4#

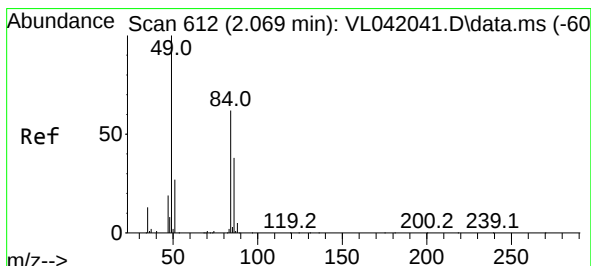
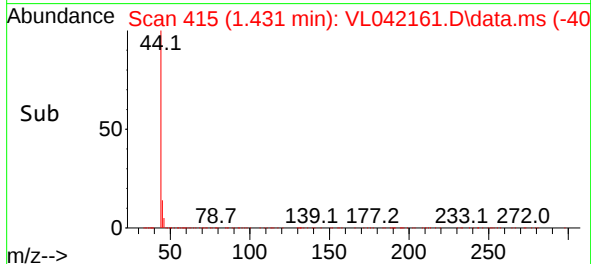
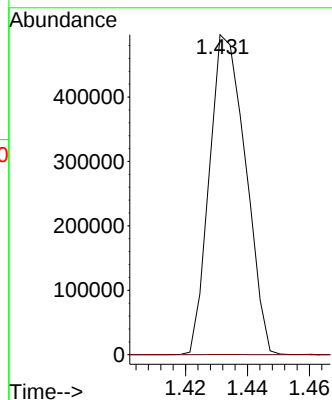
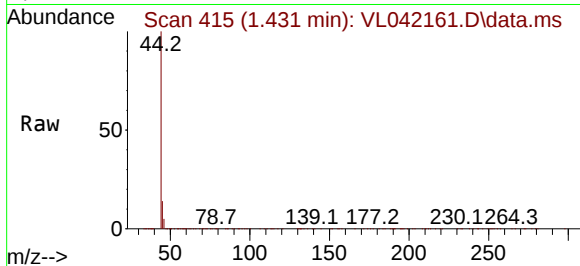




#19
Isopropyl Alcohol
Concen: 49.801 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.463 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

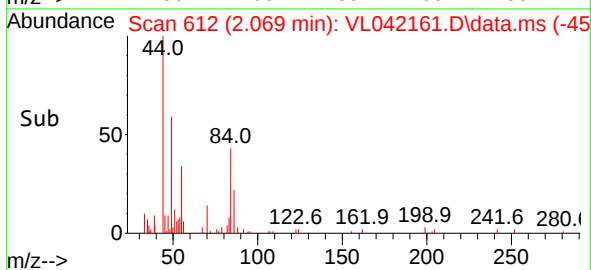
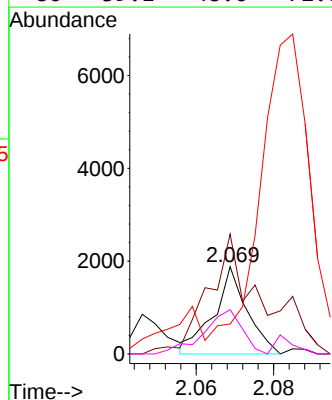
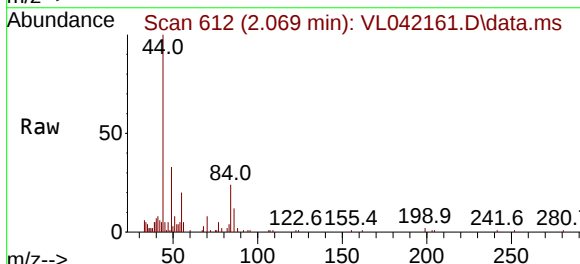
Instrument :
MSVOA_1
ClientSampleId :
565-SG-1DL2

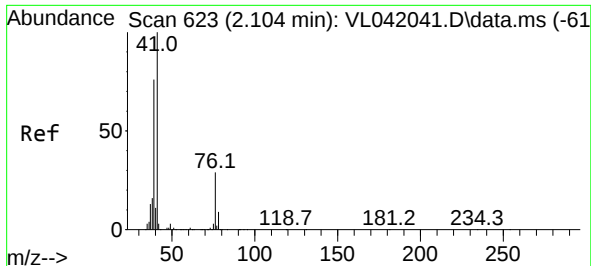
Tgt Ion: 45 Resp: 402580
Ion Ratio Lower Upper
45 100
58 0.5 35.3 52.9#



#20
Methylene Chloride
Concen: 0.210 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

Tgt Ion: 84 Resp: 1120
Ion Ratio Lower Upper
84 100
49 130.7 130.0 195.0
51 0.4 37.4 56.0#
86 39.1 48.6 72.8#

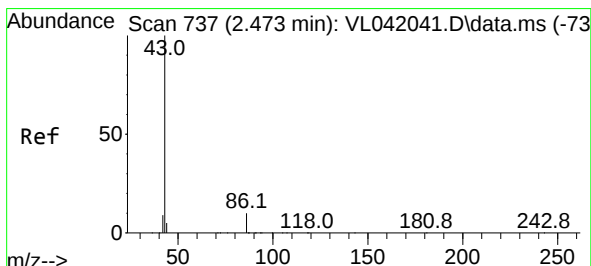
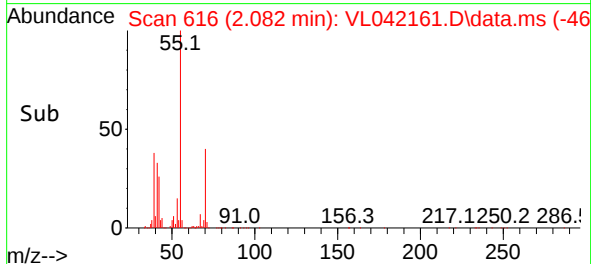
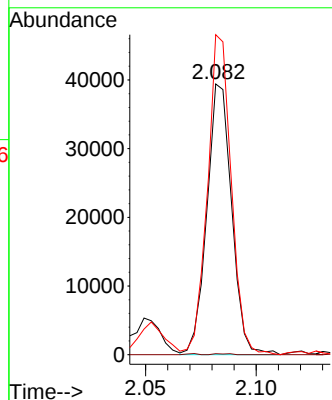
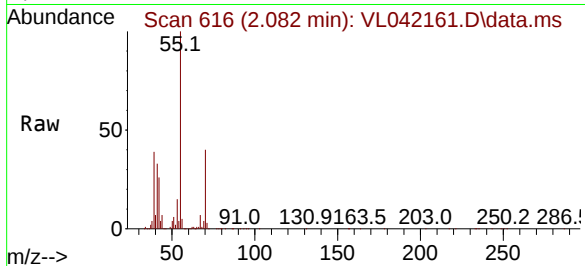




#21
 Allyl Chloride
 Concen: 3.014 ppbv
 RT: 2.082 min Scan# 61
 Delta R.T. -0.022 min
 Lab File: VL042161.D
 Acq: 17 Mar 2025 17:01

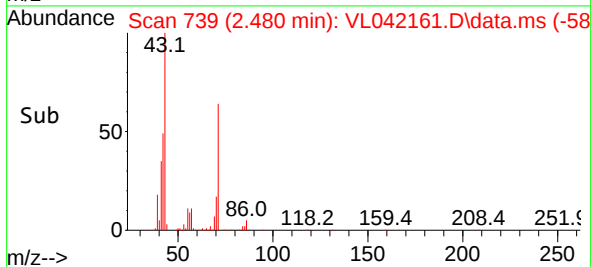
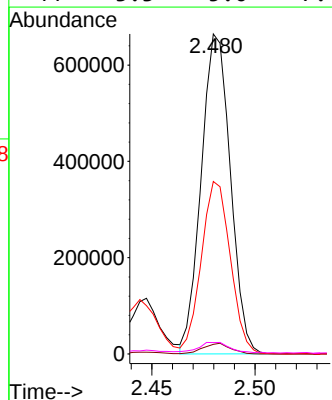
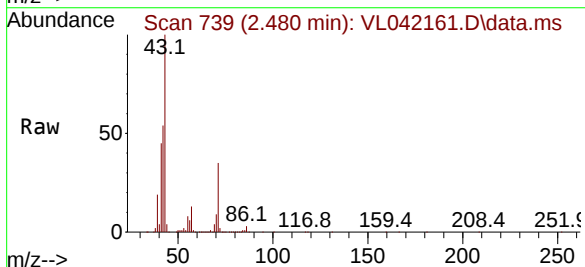
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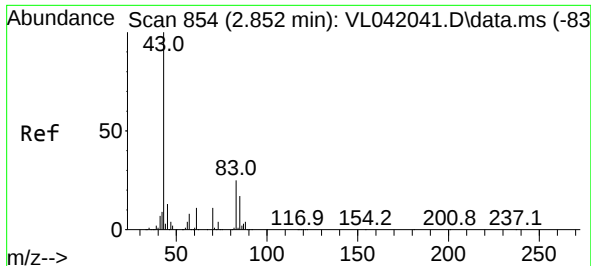
Tgt Ion: 41 Resp: 30644
 Ion Ratio Lower Upper
 41 100
 76 0.4 23.8 35.6#
 39 121.1 63.8 95.6#



#23
 Vinyl Acetate
 Concen: 66.129 ppbv
 RT: 2.480 min Scan# 739
 Delta R.T. 0.007 min
 Lab File: VL042161.D
 Acq: 17 Mar 2025 17:01

Tgt Ion: 43 Resp: 654365
 Ion Ratio Lower Upper
 43 100
 86 3.0 7.0 10.4#
 42 53.8 7.6 11.4#
 44 3.3 5.0 7.4#





#25

Ethyl Acetate

Concen: 3.018 ppbv

RT: 2.836 min Scan# 849

Delta R.T. -0.016 min

Lab File: VL042161.D

Acq: 17 Mar 2025 17:01

Instrument :

MSVOA_L

ClientSampleId :

565-SG-1DL2

Tgt Ion: 43 Resp: 170004

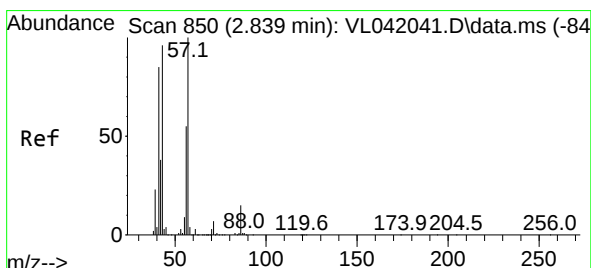
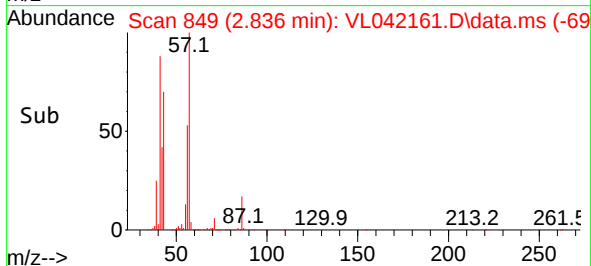
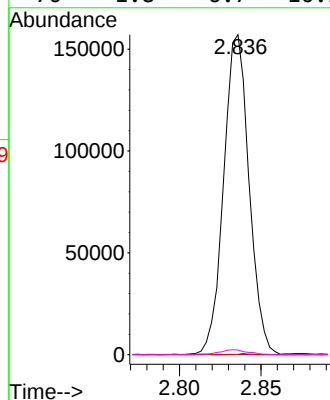
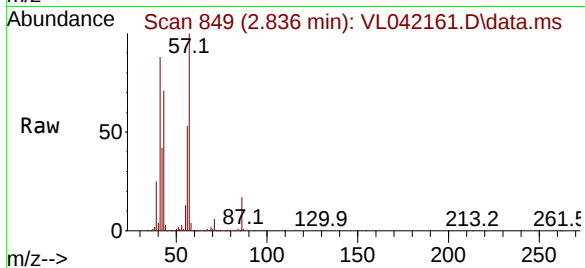
Ion Ratio Lower Upper

43 100

45 0.0 8.1 12.1#

61 0.1 7.2 10.8#

70 1.8 6.7 10.1#



#26

Hexane

Concen: 10.346 ppbv

RT: 2.836 min Scan# 849

Delta R.T. -0.003 min

Lab File: VL042161.D

Acq: 17 Mar 2025 17:01

Tgt Ion: 57 Resp: 235603

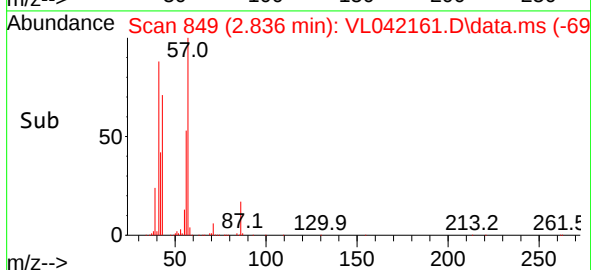
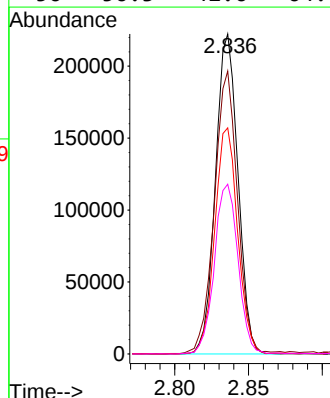
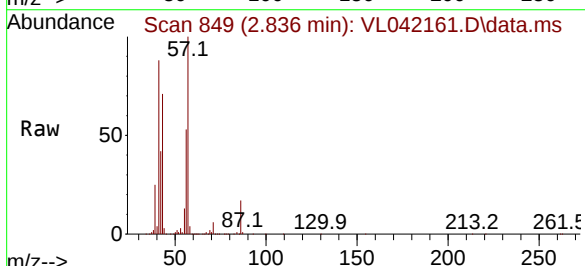
Ion Ratio Lower Upper

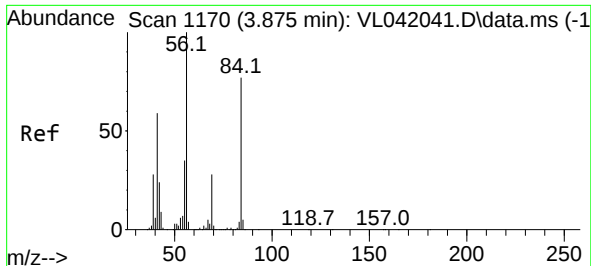
57 100

41 92.1 70.6 106.0

43 72.4 199.4 299.0#

56 56.3 42.6 64.0

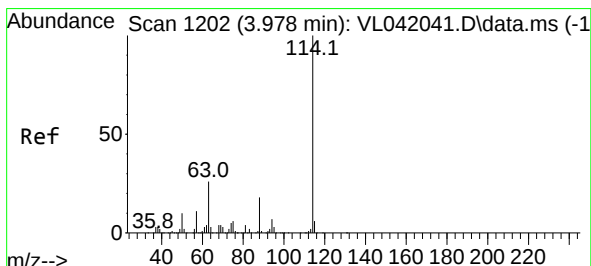
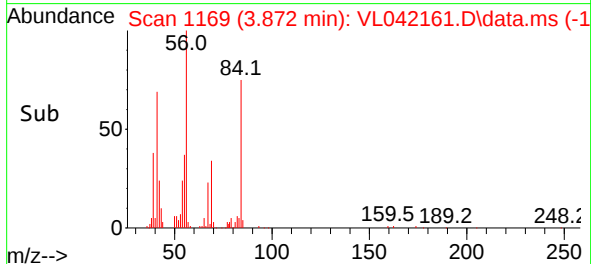
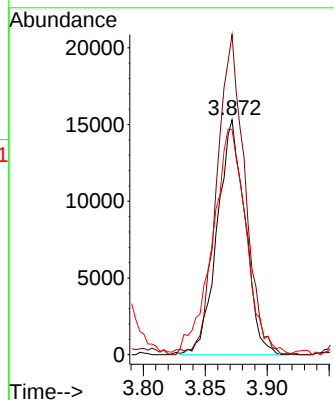
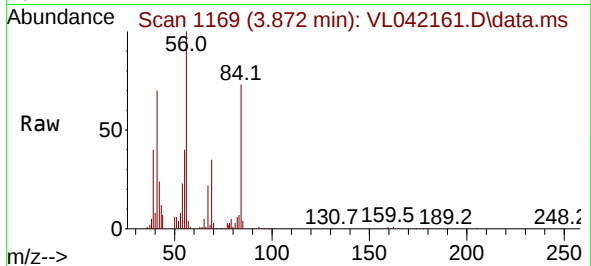




#30
Cyclohexane
Concen: 1.298 ppbv
RT: 3.872 min Scan# 1170
Delta R.T. -0.003 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

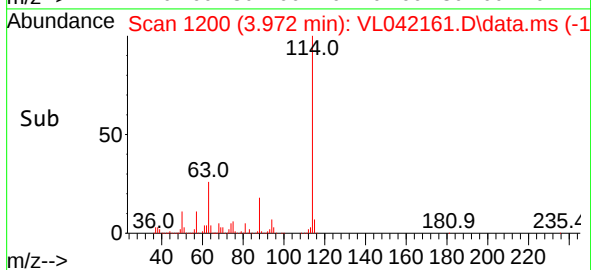
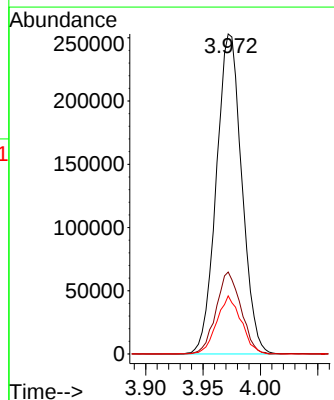
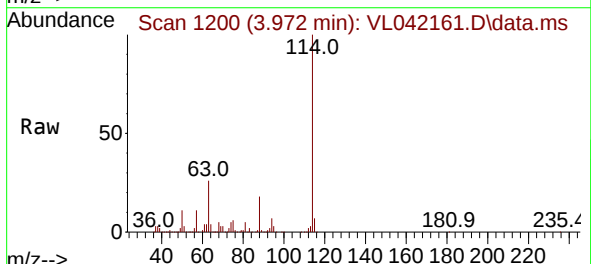
Instrument :
MSVOA_L
ClientSampleId :
565-SG-1DL2

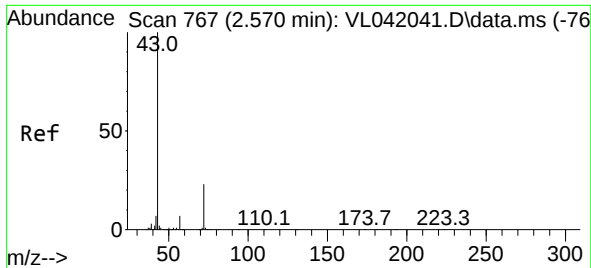
Tgt Ion: 84 Resp: 23988
Ion Ratio Lower Upper
84 100
56 137.5 101.5 152.3
41 118.0 62.6 93.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.006 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

Tgt Ion: 114 Resp: 390233
Ion Ratio Lower Upper
114 100
63 25.2 20.1 30.1
88 17.5 14.3 21.5

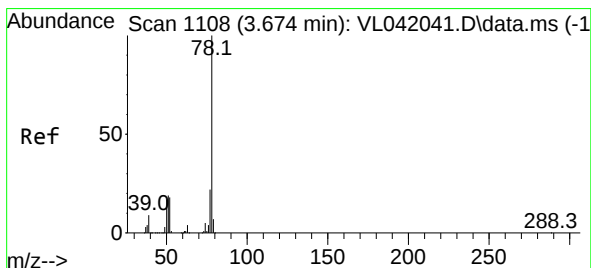
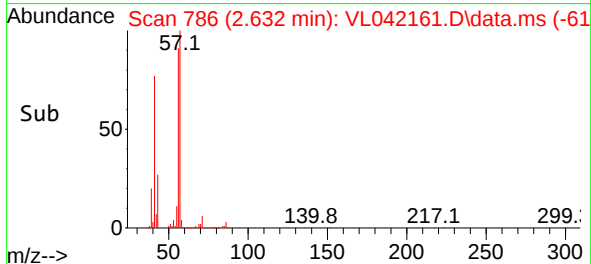
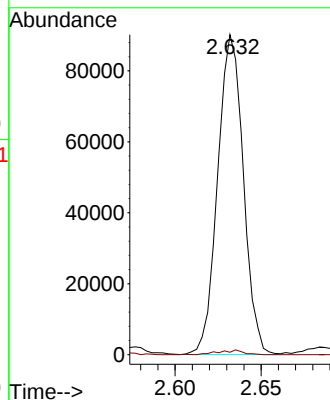
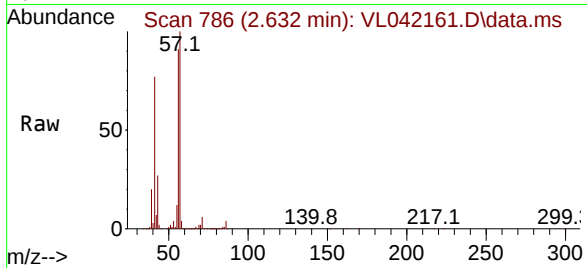




#34
2-Butanone
Concen: 3.074 ppbv
RT: 2.632 min Scan# 71
Delta R.T. 0.062 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

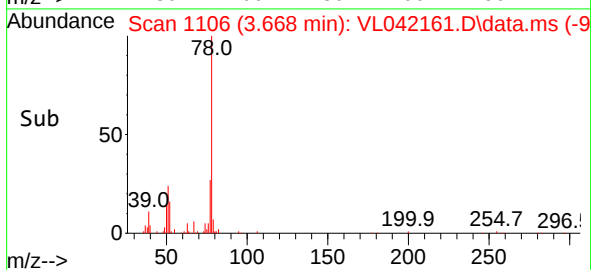
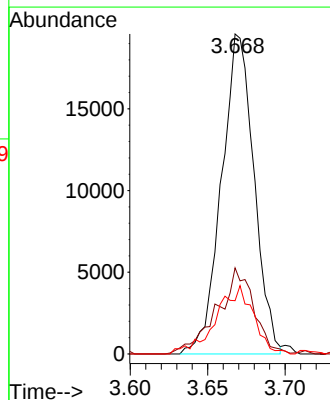
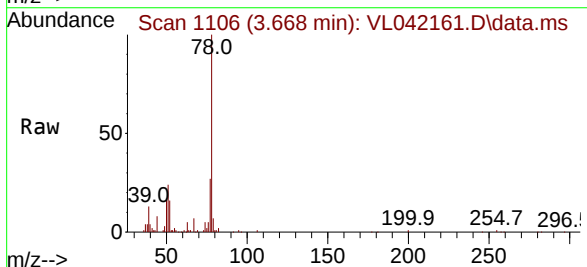
Instrument :
MSVOA_1
ClientSampleId :
565-SG-1DL2

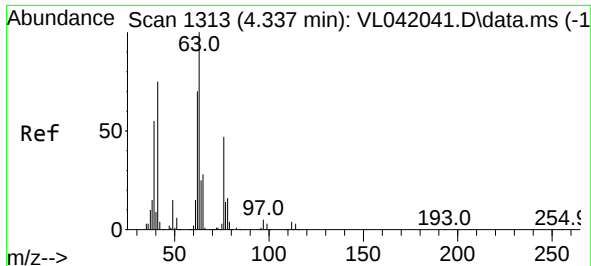
Tgt Ion: 43 Resp: 93446
Ion Ratio Lower Upper
43 100
72 1.4 18.5 27.7#



#36
Benzene
Concen: 0.702 ppbv
RT: 3.668 min Scan# 1106
Delta R.T. -0.006 min
Lab File: VL042161.D
Acq: 17 Mar 2025 17:01

Tgt Ion: 78 Resp: 28676
Ion Ratio Lower Upper
78 100
77 25.3 17.7 26.5
50 15.5 13.9 20.9





#39

1,2-Dichloropropane

Concen: 6.316 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.366 min

Lab File: VL042161.D

Acq: 17 Mar 2025 17:01

Instrument :

MSVOA_L

ClientSampleId :

565-SG-1DL2

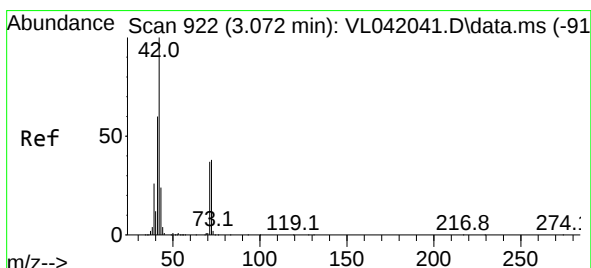
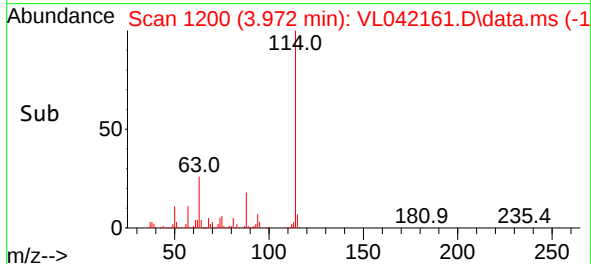
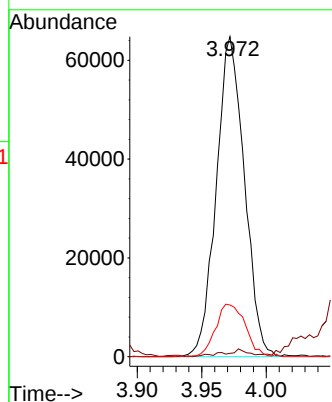
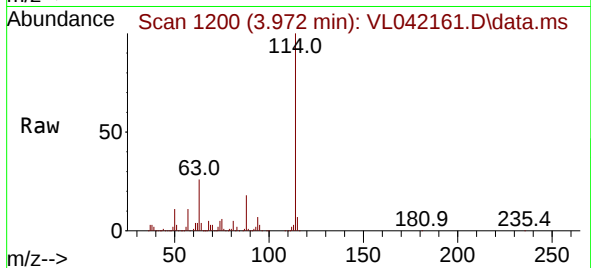
Tgt Ion: 63 Resp: 97932

Ion Ratio Lower Upper

63 100

41 0.7 60.1 90.1#

62 16.0 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.060 ppbv

RT: 3.033 min Scan# 910

Delta R.T. -0.039 min

Lab File: VL042161.D

Acq: 17 Mar 2025 17:01

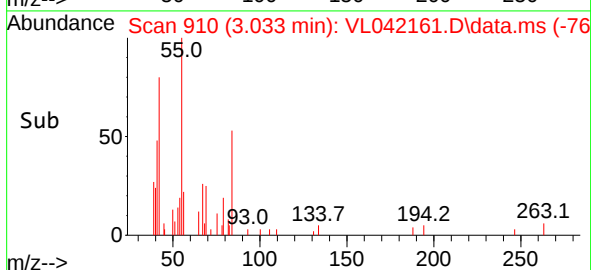
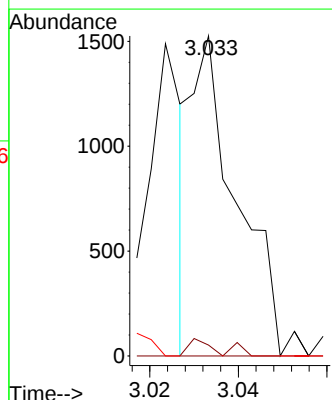
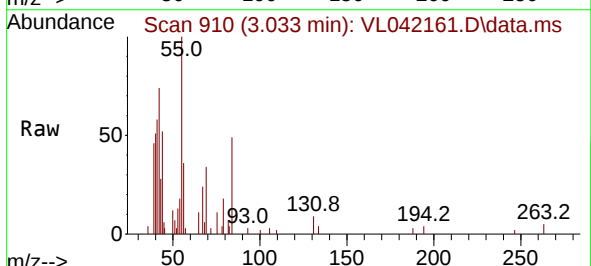
Tgt Ion: 42 Resp: 1076

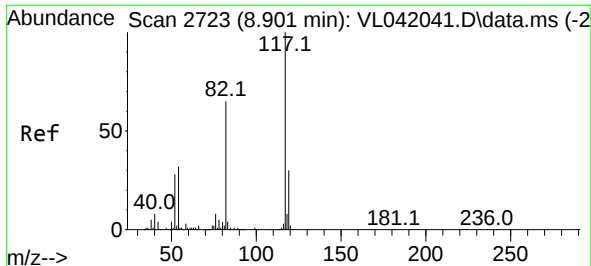
Ion Ratio Lower Upper

42 100

72 3.6 30.2 45.2#

71 0.0 28.2 42.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 21

Delta R.T. -0.006 min

Lab File: VL042161.D

Acq: 17 Mar 2025 17:01

Instrument :

MSVOA_L

ClientSampleId :

565-SG-1DL2

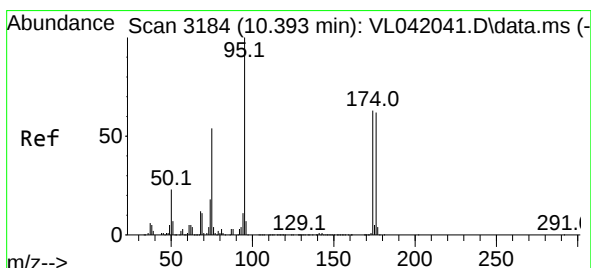
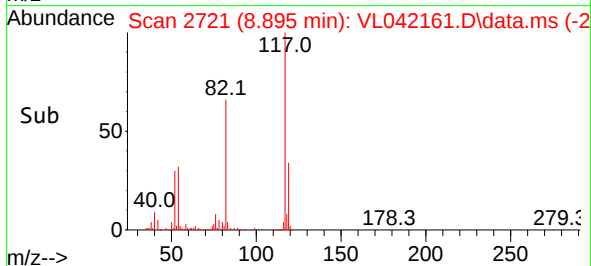
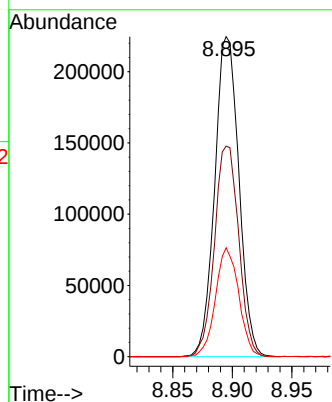
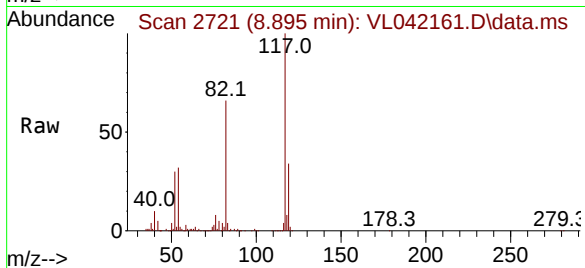
Tgt Ion:117 Resp: 317448

Ion Ratio Lower Upper

117 100

82 66.1 55.0 82.6

119 32.8 25.9 38.9



#68

1-Bromo-4-Fluorobenzene

Concen: 9.933 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. -0.006 min

Lab File: VL042161.D

Acq: 17 Mar 2025 17:01

Tgt Ion: 95 Resp: 242589

Ion Ratio Lower Upper

95 100

174 65.0 51.8 77.6

175 4.7 3.9 5.9

