

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
 Data File : VL042157.D
 Acq On : 17 Mar 2025 14:41
 Operator : SY/MD
 Sample : Q1586-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-2DL

Quant Time: Mar 18 01:25:53 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)

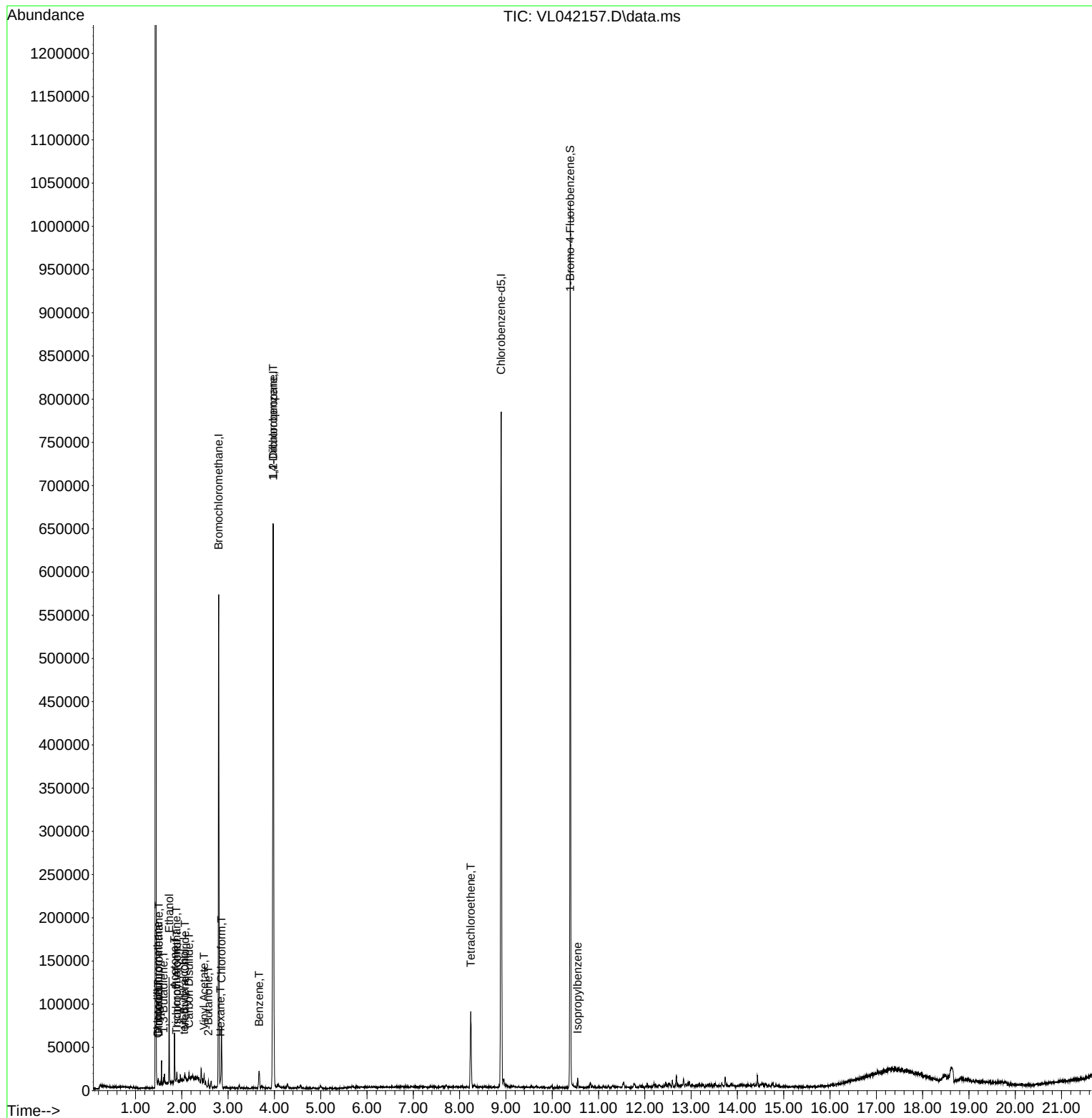
Internal Standards						
1) Bromochloromethane	2.797	49	165500	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	386181	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	319433	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	241867	9.842	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1149	0.067	ppbv	99
3) Chlorodifluoromethane	1.479	51	1580	0.066	ppbv #	88
9) Propene	1.492	41	1185	0.121	ppbv	96
11) Trichlorofluoromethane	1.884	101	521	0.030	ppbv #	72
13) Ethanol	1.725	45	42027	67.562	ppbv	90
15) Acetone	1.842	43	23433	1.603	ppbv	95
16) 1,3-Butadiene	1.606	39	695	0.102	ppbv #	15
17) tert-Butyl alcohol	2.049	59	1014	0.055	ppbv #	62
19) Isopropyl Alcohol	1.894	45	4896	0.583	ppbv #	1
20) Methylene Chloride	2.068	84	1155	0.209	ppbv #	77
23) Vinyl Acetate	2.480	43	3689	0.359	ppbv #	62
26) Hexane	2.832	57	1082	0.046	ppbv #	1
27) Carbon Disulfide	2.156	76	3712	0.232	ppbv #	1
29) Chloroform	2.858	83	26968	0.847	ppbv	98
34) 2-Butanone	2.573	43	4769	0.159	ppbv	98
36) Benzene	3.671	78	12664	0.313	ppbv	98
39) 1,2-Dichloropropane	3.972	63	97296	6.341	ppbv #	24
52) Tetrachloroethene	8.241	164	16168	1.168	ppbv	89
62) Isopropylbenzene	10.548	105	2493	0.035	ppbv #	75

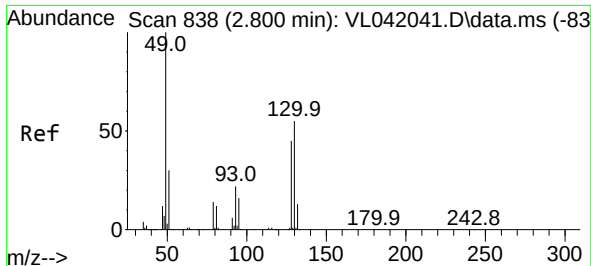
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
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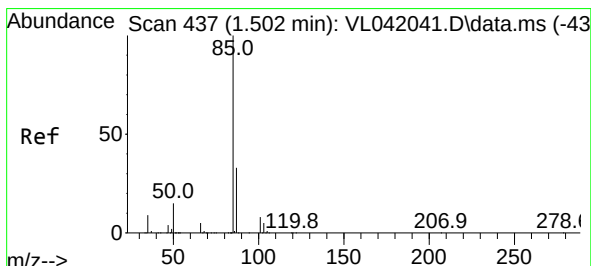
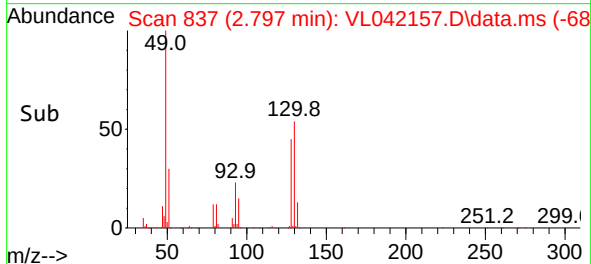
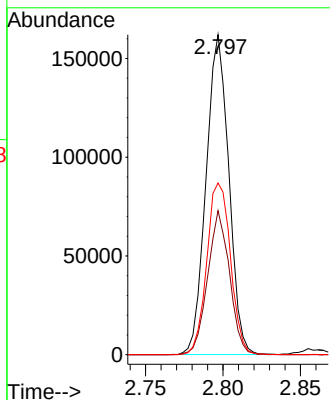
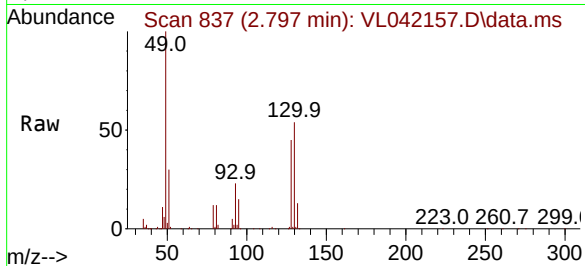




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

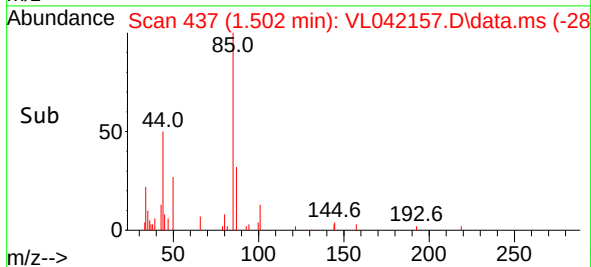
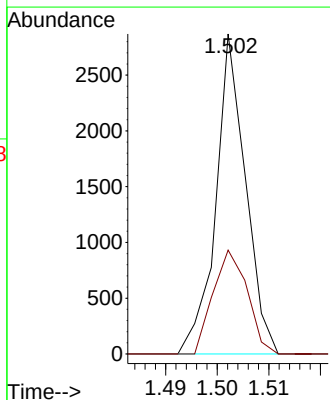
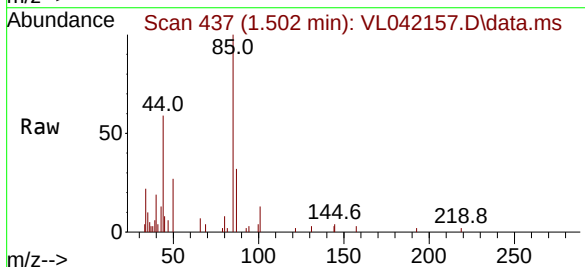
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2DL

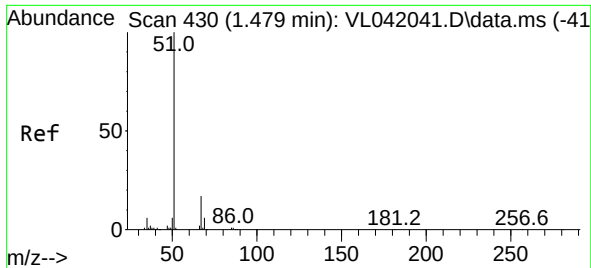
Tgt Ion: 49 Resp: 165500
Ion Ratio Lower Upper
49 100
128 43.2 21.6 64.8
130 55.9 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.067 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

Tgt Ion: 85 Resp: 1149
Ion Ratio Lower Upper
85 100
87 32.5 26.4 39.6

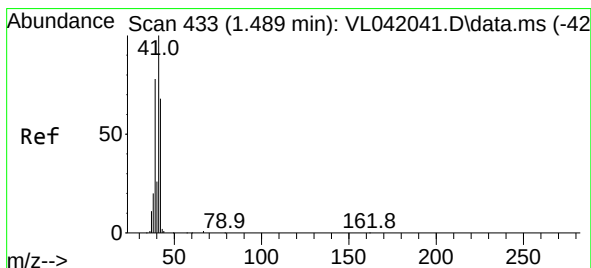
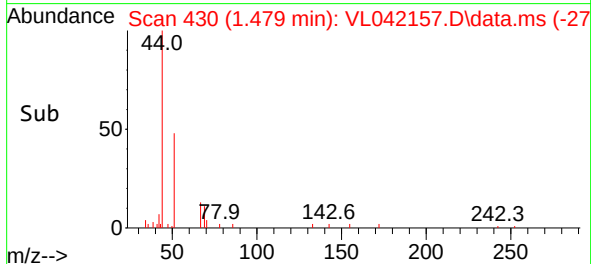
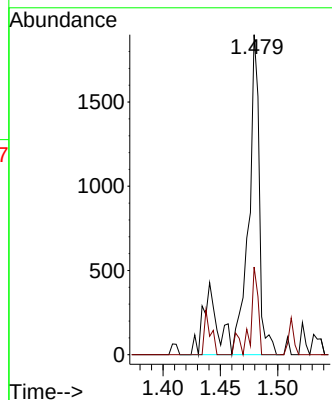
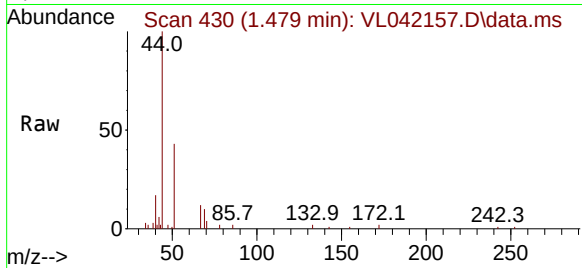




#3
Chlorodifluoromethane
Concen: 0.066 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

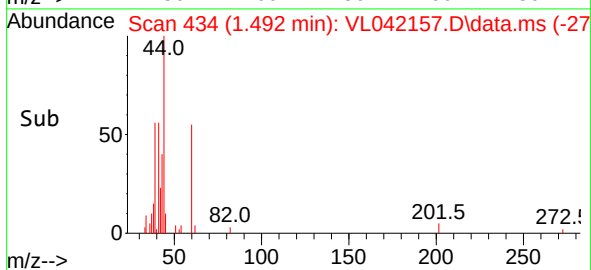
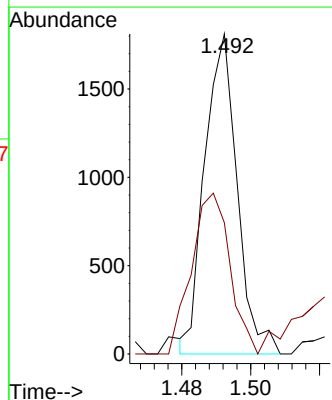
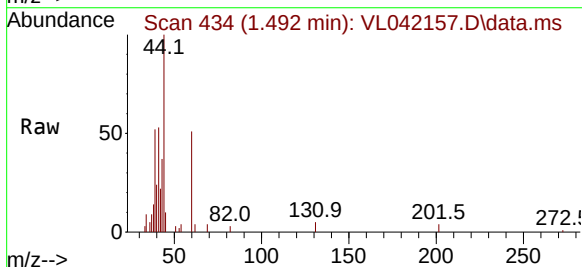
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2DL

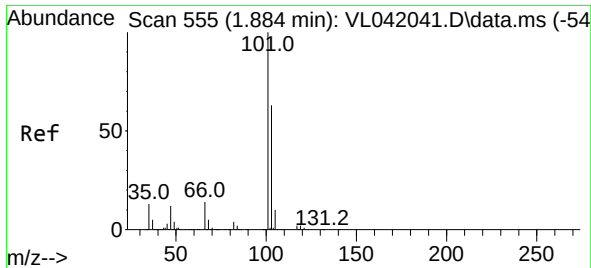
Tgt Ion: 51 Resp: 1580
Ion Ratio Lower Upper
51 100
67 22.3 13.7 20.5#



#9
Propene
Concen: 0.121 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.003 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

Tgt Ion: 41 Resp: 1185
Ion Ratio Lower Upper
41 100
42 66.2 55.8 83.6

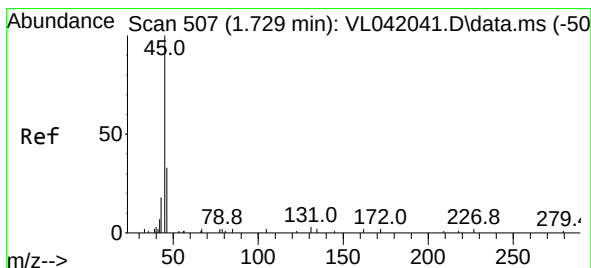
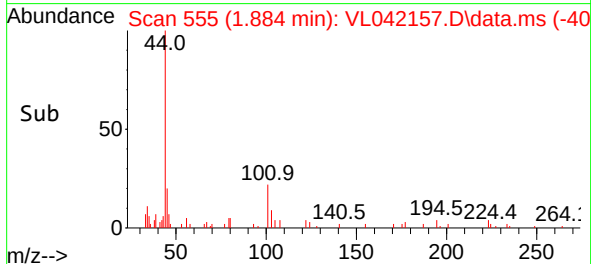
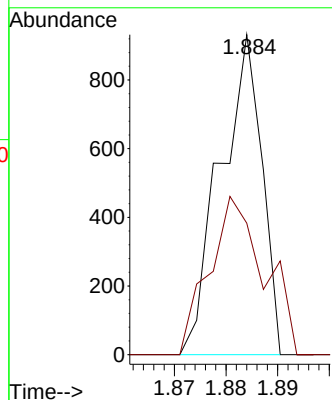
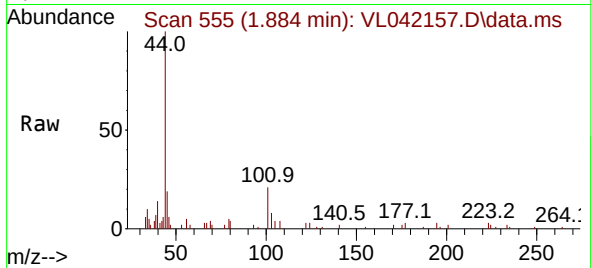




#11
 Trichlorofluoromethane
 Concen: 0.030 ppbv
 RT: 1.884 min Scan# 506
 Delta R.T. -0.000 min
 Lab File: VL042157.D
 Acq: 17 Mar 2025 14:41

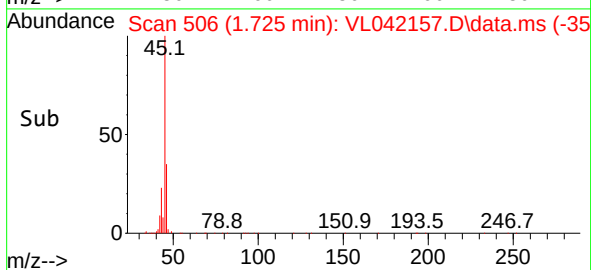
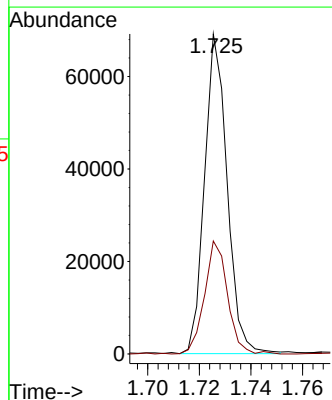
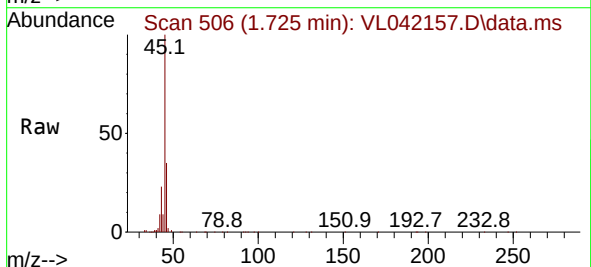
Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-2DL

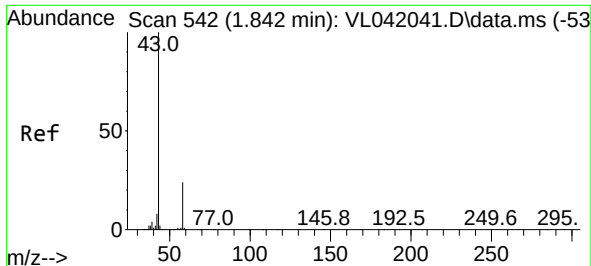
Tgt Ion:101 Resp: 521
 Ion Ratio Lower Upper
 101 100
 103 41.1 50.6 75.8#



#13
 Ethanol
 Concen: 67.562 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. -0.003 min
 Lab File: VL042157.D
 Acq: 17 Mar 2025 14:41

Tgt Ion: 45 Resp: 42027
 Ion Ratio Lower Upper
 45 100
 46 36.1 17.1 68.3

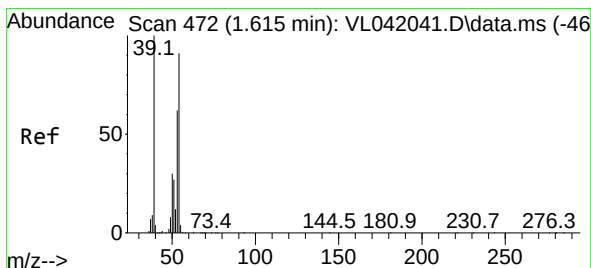
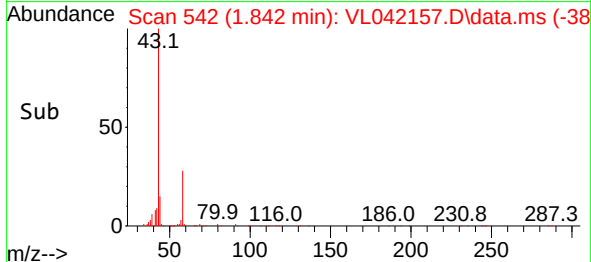
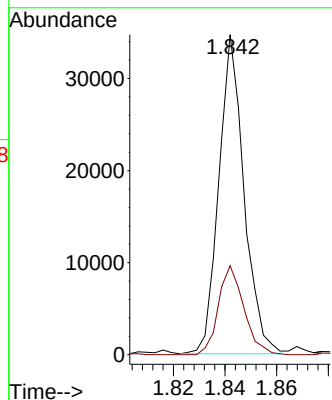
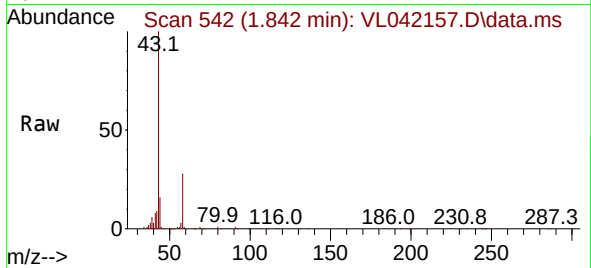




#15
Acetone
Concen: 1.603 ppbv
RT: 1.842 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

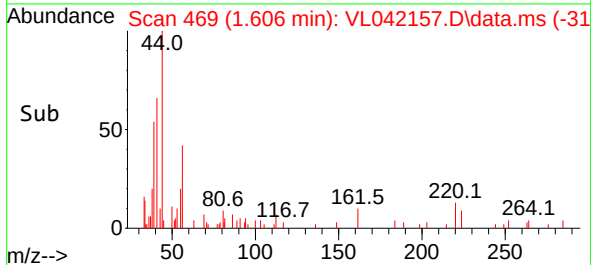
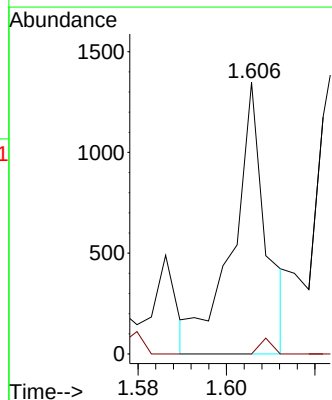
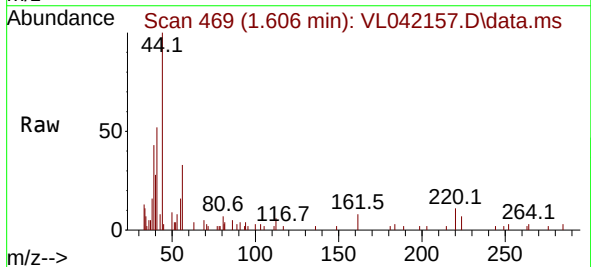
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2DL

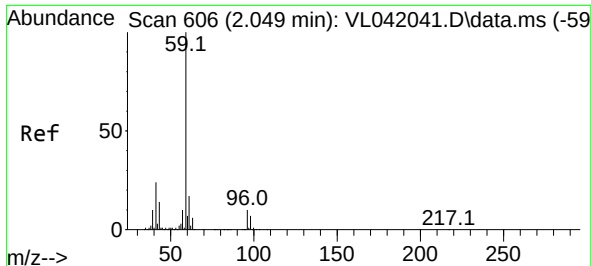
Tgt Ion: 43 Resp: 23433
Ion Ratio Lower Upper
43 100
58 28.4 20.7 31.1



#16
1,3-Butadiene
Concen: 0.102 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.010 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

Tgt Ion: 39 Resp: 695
Ion Ratio Lower Upper
39 100
54 2.2 59.6 89.4#





#17

tert-Butyl alcohol

Concen: 0.055 ppbv

RT: 2.049 min Scan# 606

Delta R.T. -0.000 min

Lab File: VL042157.D

Acq: 17 Mar 2025 14:41

Instrument :

MSVOA_L

ClientSampleId :

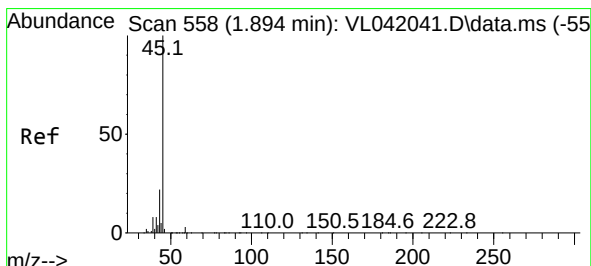
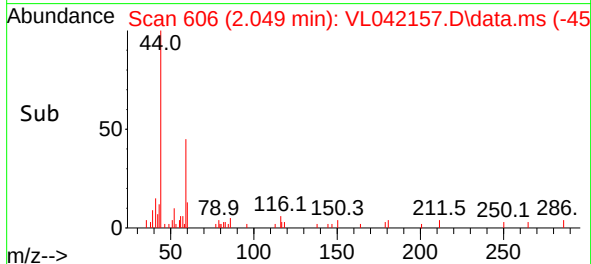
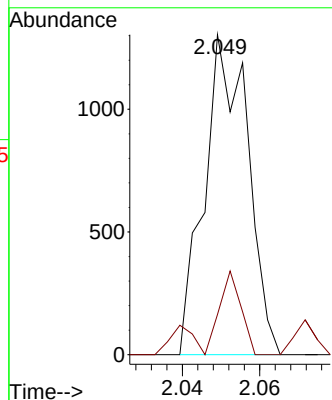
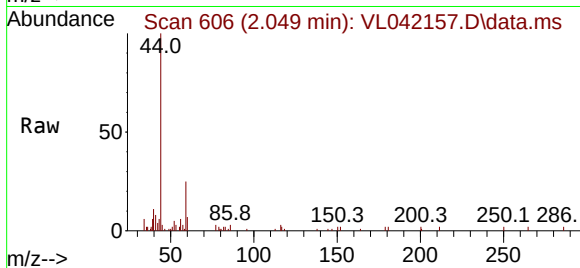
557-SG-2DL

Tgt Ion: 59 Resp: 1014

Ion Ratio Lower Upper

59 100

57 26.0 9.3 13.9#



#19

Isopropyl Alcohol

Concen: 0.583 ppbv

RT: 1.894 min Scan# 558

Delta R.T. -0.000 min

Lab File: VL042157.D

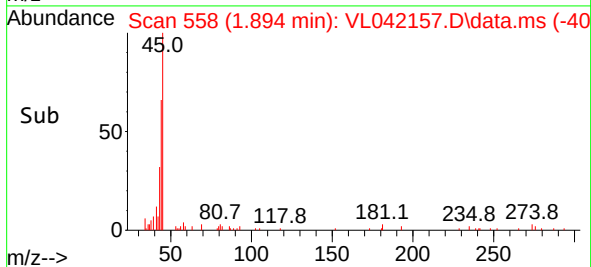
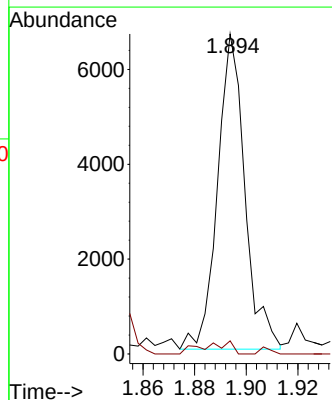
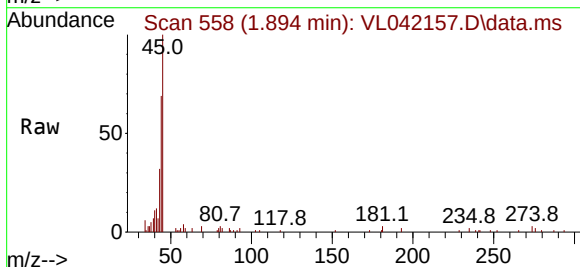
Acq: 17 Mar 2025 14:41

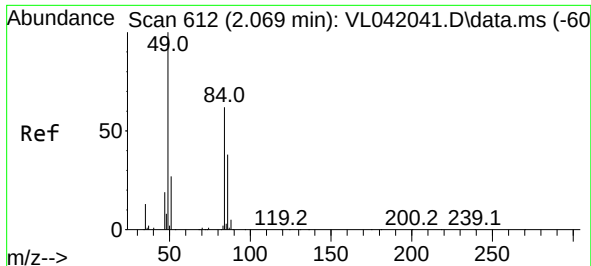
Tgt Ion: 45 Resp: 4896

Ion Ratio Lower Upper

45 100

58 135.0 35.3 52.9#

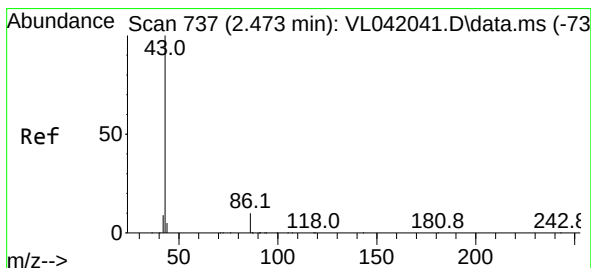
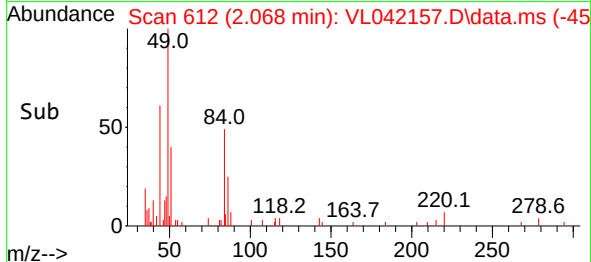
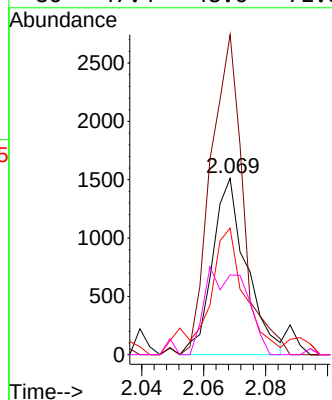
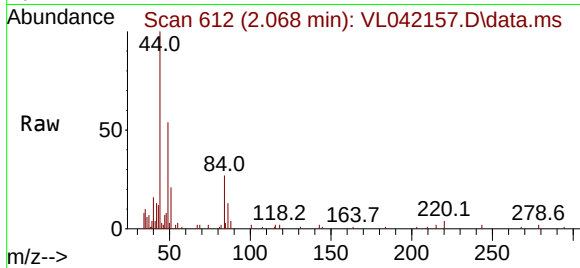




#20
Methylene Chloride
Concen: 0.209 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

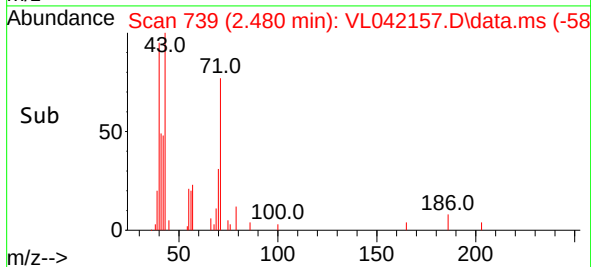
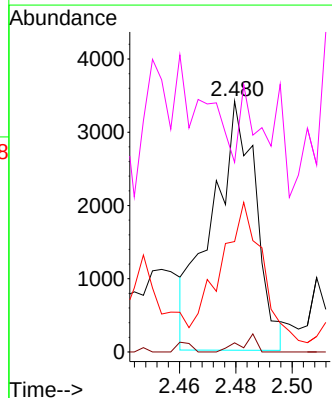
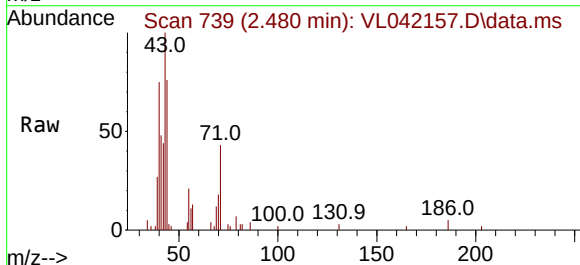
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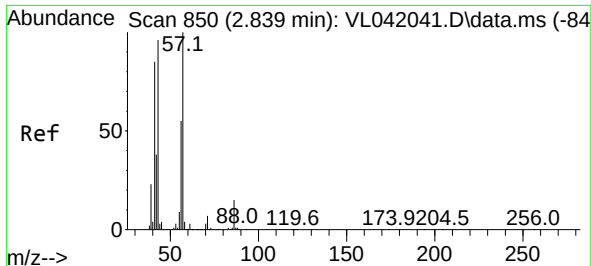
Tgt Ion: 84 Resp: 1155
Ion Ratio Lower Upper
84 100
49 190.1 130.0 195.0
51 70.9 37.4 56.0#
86 47.4 48.6 72.8#



#23
Vinyl Acetate
Concen: 0.359 ppbv
RT: 2.480 min Scan# 739
Delta R.T. 0.006 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

Tgt Ion: 43 Resp: 3689
Ion Ratio Lower Upper
43 100
86 4.1 7.0 10.4#
42 36.9 7.6 11.4#
44 0.0 5.0 7.4#

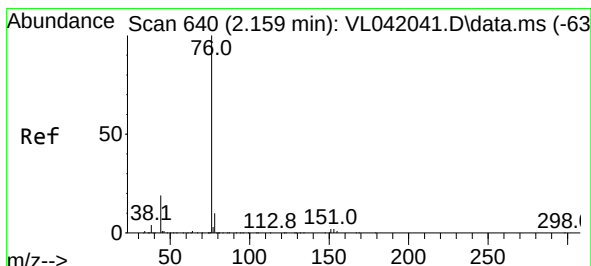
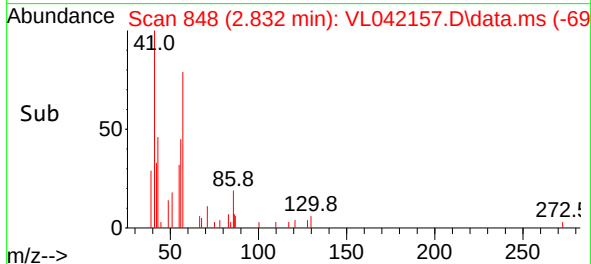
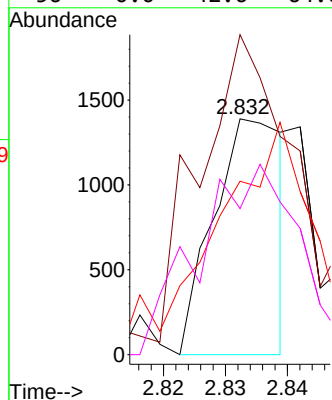
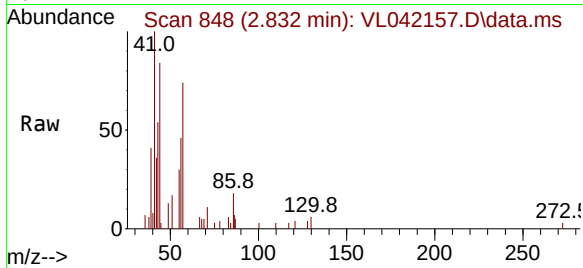




#26
Hexane
Concen: 0.046 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.007 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

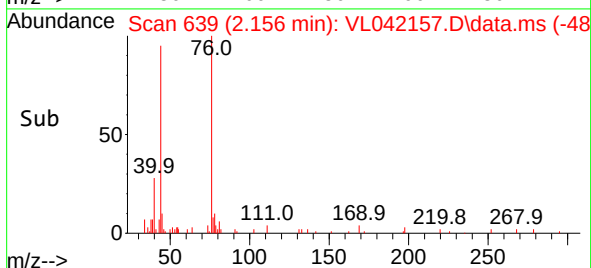
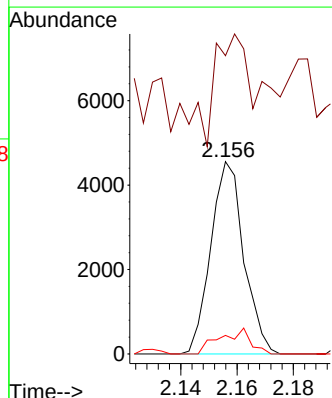
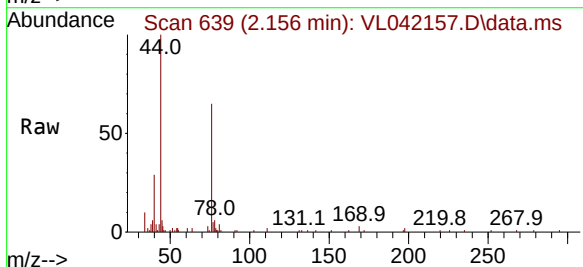
Instrument :
MSVOA_L
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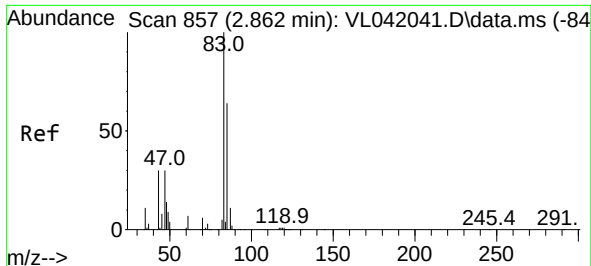
Tgt Ion: 57	Resp: 1082
Ion Ratio	Lower Upper
57 100	
41 239.7	70.6 106.0#
43 0.0	199.4 299.0#
56 0.0	42.6 64.0#



#27
Carbon Disulfide
Concen: 0.232 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.003 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

Tgt Ion: 76	Resp: 3712		
Ion Ratio	Lower	Upper	
76 100			
44 642.3	16.2	24.2#	
78 13.9	9.4	14.0	





#29

Chloroform

Concen: 0.847 ppbv

RT: 2.858 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042157.D

Acq: 17 Mar 2025 14:41

Instrument :

MSVOA_L

ClientSampleId :

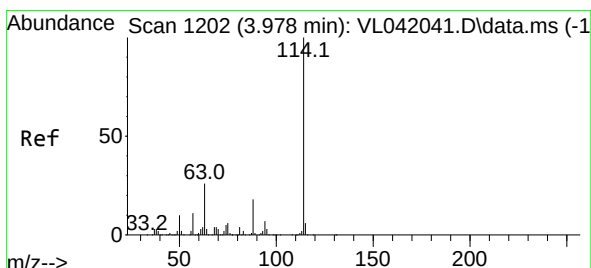
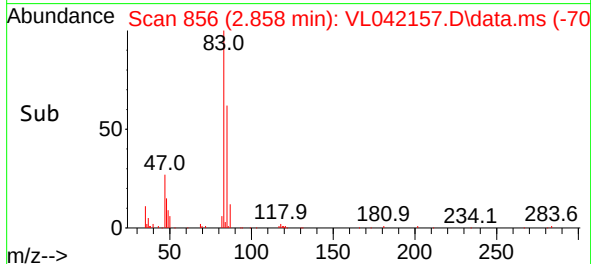
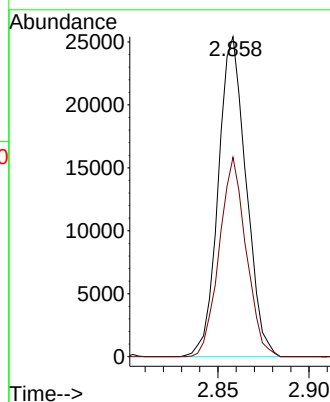
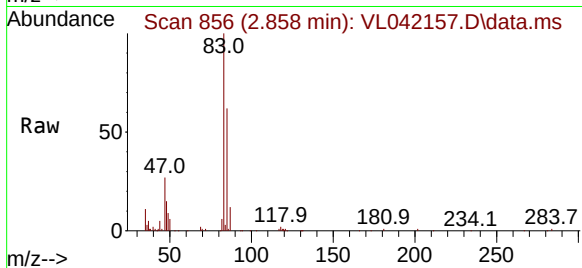
557-SG-2DL

Tgt Ion: 83 Resp: 26968

Ion Ratio Lower Upper

83 100

85 62.3 51.2 76.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.003 min

Lab File: VL042157.D

Acq: 17 Mar 2025 14:41

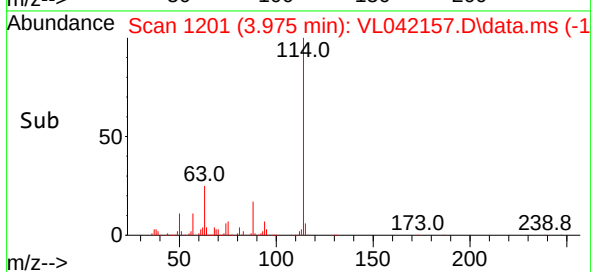
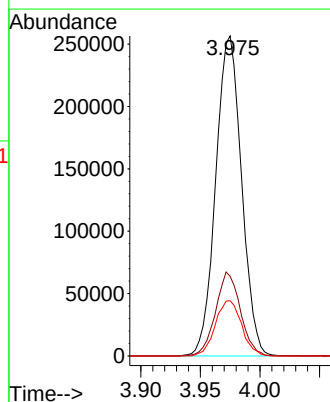
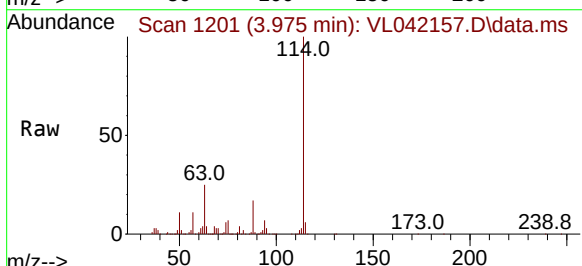
Tgt Ion: 114 Resp: 386181

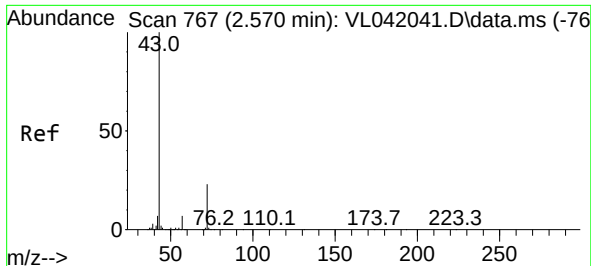
Ion Ratio Lower Upper

114 100

63 25.2 20.1 30.1

88 17.6 14.3 21.5

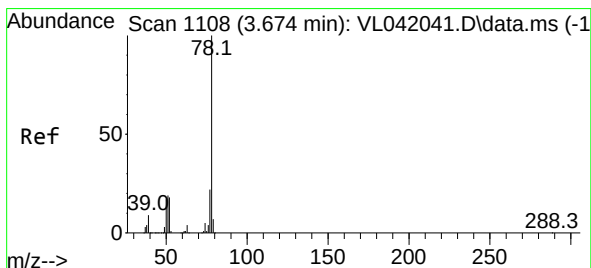
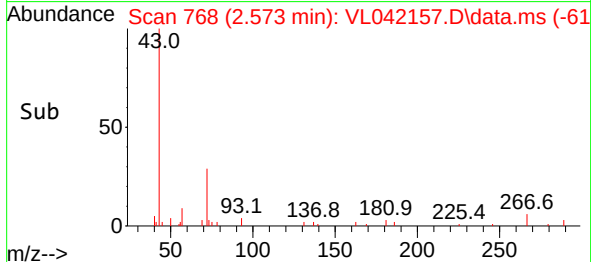
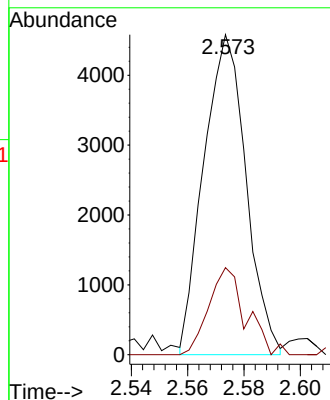
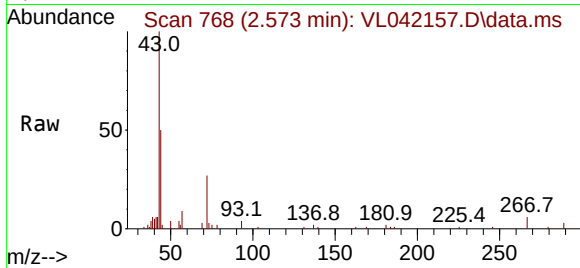




#34
2-Butanone
Concen: 0.159 ppbv
RT: 2.573 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

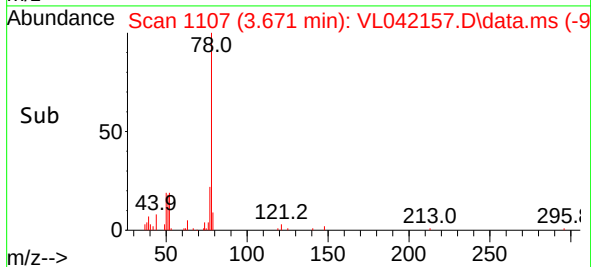
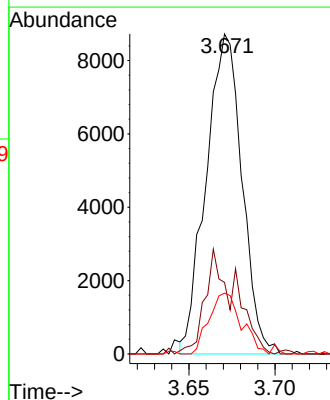
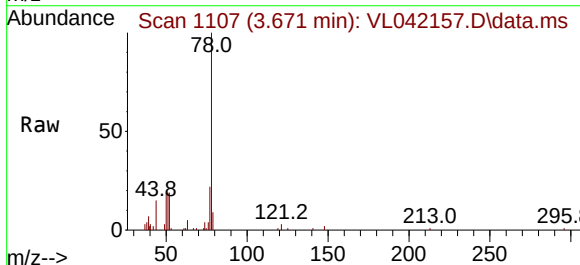
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2DL

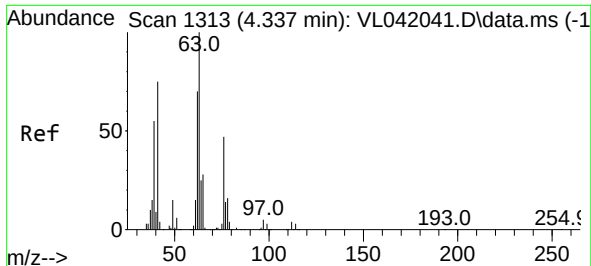
Tgt Ion: 43 Resp: 4769
Ion Ratio Lower Upper
43 100
72 24.3 18.5 27.7



#36
Benzene
Concen: 0.313 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. -0.003 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

Tgt Ion: 78 Resp: 12664
Ion Ratio Lower Upper
78 100
77 21.5 17.7 26.5
50 19.0 13.9 20.9





#39

1,2-Dichloropropane

Concen: 6.341 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.366 min

Lab File: VL042157.D

Acq: 17 Mar 2025 14:41

Instrument :

MSVOA_L

ClientSampleId :

557-SG-2DL

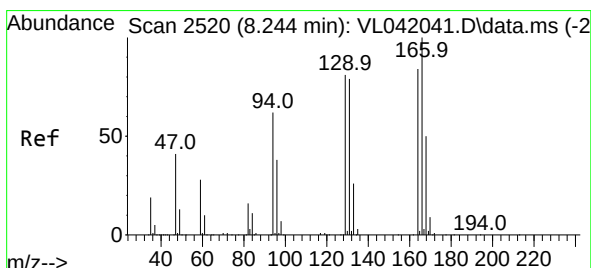
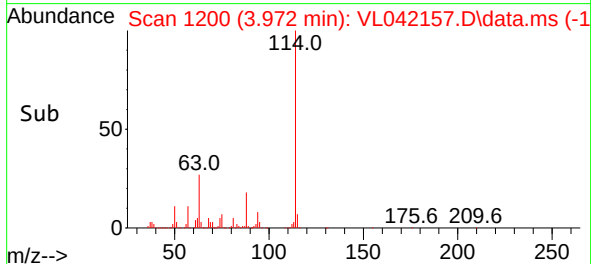
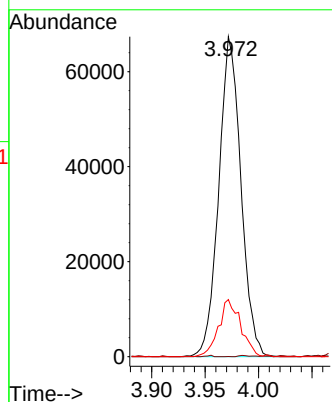
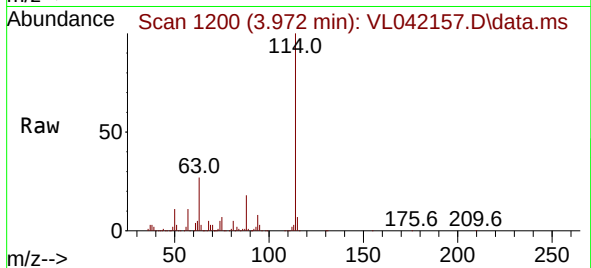
Tgt Ion: 63 Resp: 97296

Ion Ratio Lower Upper

63 100

41 0.1 60.1 90.1#

62 17.8 55.8 83.8#



#52

Tetrachloroethene

Concen: 1.168 ppbv

RT: 8.241 min Scan# 2519

Delta R.T. -0.003 min

Lab File: VL042157.D

Acq: 17 Mar 2025 14:41

Tgt Ion:164 Resp: 16168

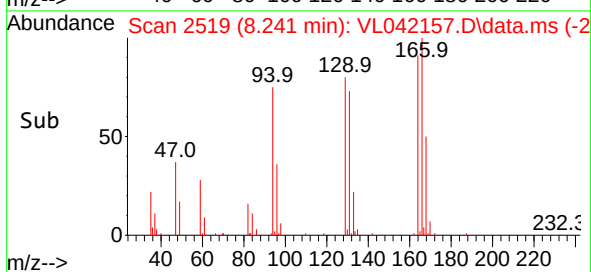
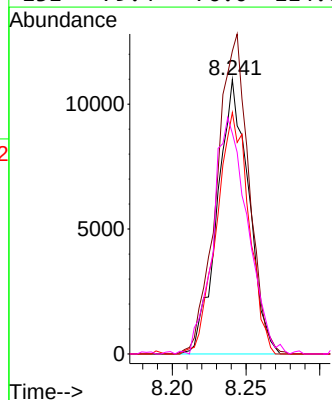
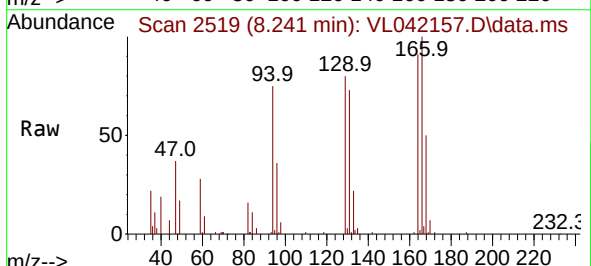
Ion Ratio Lower Upper

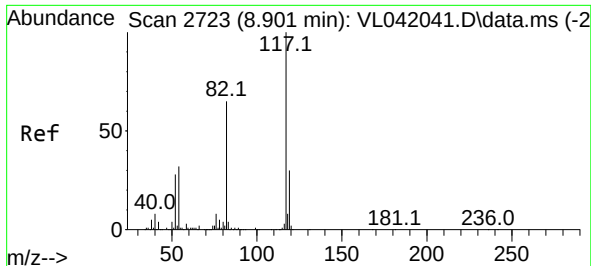
164 100

166 109.8 95.7 143.5

129 88.0 77.1 115.7

131 79.4 76.0 114.0

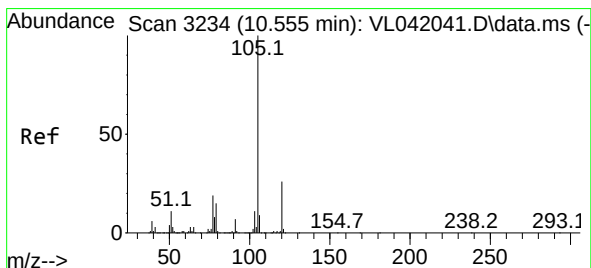
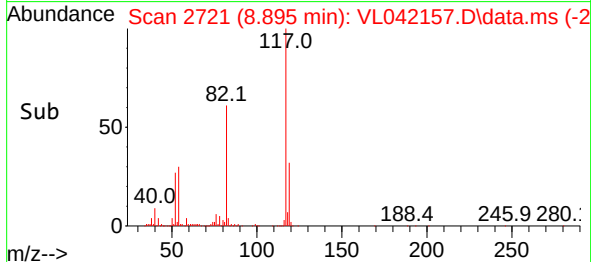
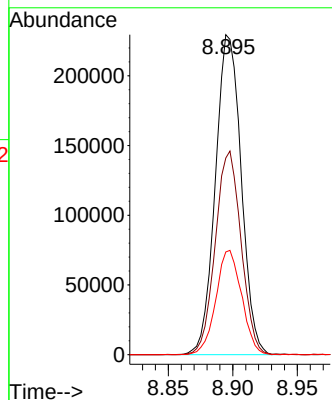
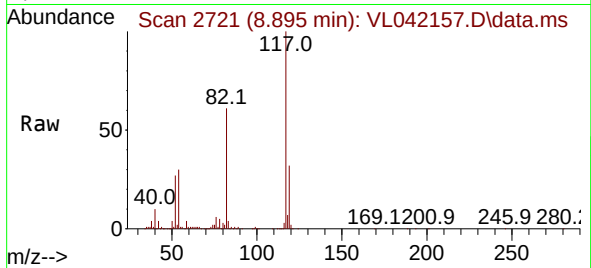




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

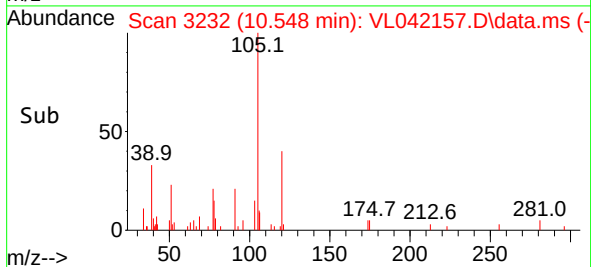
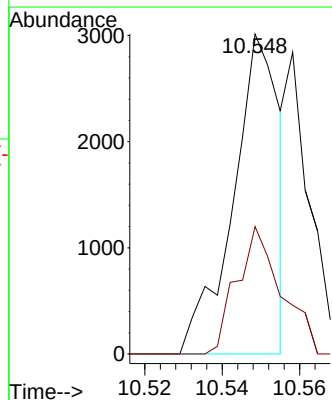
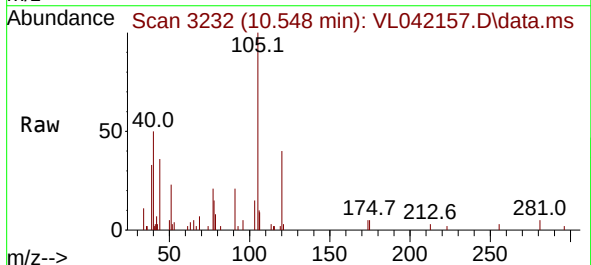
Instrument :
MSVOA_L
ClientSampleId :
557-SG-2DL

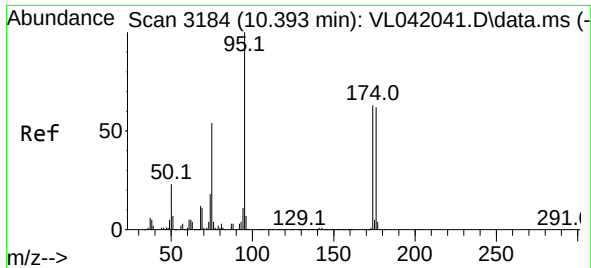
Tgt Ion:117 Resp: 319433
Ion Ratio Lower Upper
117 100
82 63.7 55.0 82.6
119 32.6 25.9 38.9



#62
Isopropylbenzene
Concen: 0.035 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.007 min
Lab File: VL042157.D
Acq: 17 Mar 2025 14:41

Tgt Ion:105 Resp: 2493
Ion Ratio Lower Upper
105 100
120 38.6 20.7 31.1#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.842 ppbv
 RT: 10.390 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042157.D
 Acq: 17 Mar 2025 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-2DL

Tgt Ion: 95 Resp: 241867
 Ion Ratio Lower Upper
 95 100
 174 64.7 51.8 77.6
 175 4.7 3.9 5.9

