

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031725\
 Data File : VL042156.D
 Acq On : 17 Mar 2025 14:09
 Operator : SY/MD
 Sample : Q1586-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-1

Quant Time: Mar 18 01:25:30 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

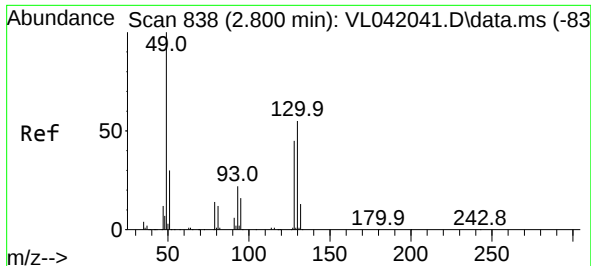
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	170524	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	408641	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	332614	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	253101	9.891	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1139	0.064	ppbv	98
9) Propene	1.489	41	676	0.067	ppbv #	77
11) Trichlorofluoromethane	1.887	101	607	0.034	ppbv	86
13) Ethanol	1.434	45	396663	618.881	ppbv	88
15) Acetone	1.845	43	13833	0.919	ppbv	94
16) 1,3-Butadiene	1.606	39	866	0.124	ppbv #	25
19) Isopropyl Alcohol	1.434	45	396663	45.856	ppbv #	32
20) Methylene Chloride	2.069	84	1203	0.211	ppbv #	55
23) Vinyl Acetate	2.463	43	755	0.071	ppbv #	77
26) Hexane	2.839	57	922	0.038	ppbv #	25
27) Carbon Disulfide	2.156	76	2604	0.158	ppbv #	1
29) Chloroform	2.865	83	2594	0.079	ppbv #	74
30) Cyclohexane	3.965	84	803	0.041	ppbv #	3
34) 2-Butanone	2.577	43	3004	0.094	ppbv	98
39) 1,2-Dichloropropane	3.978	63	104626	6.444	ppbv #	23
52) Tetrachloroethene	8.244	164	2521	0.172	ppbv #	80

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

Quant Time: Mar 18 01:25:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
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QLast Update : Wed Feb 26 01:08:36 2025
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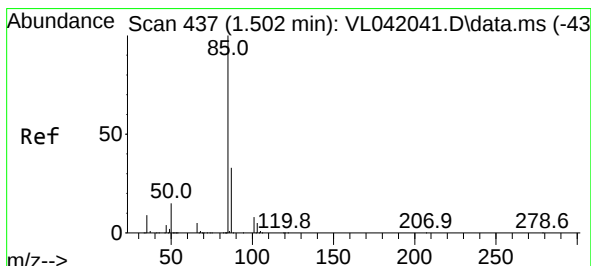
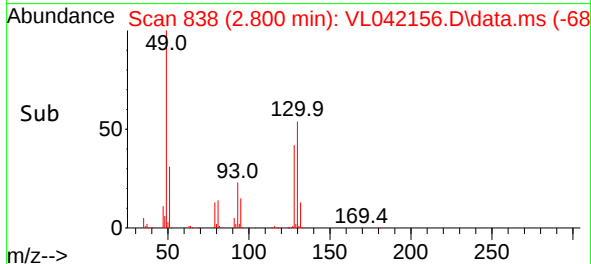
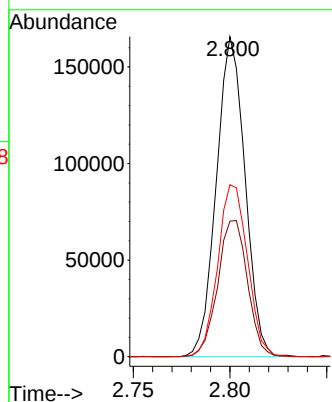
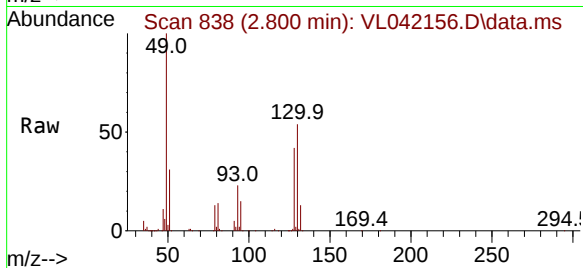




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 838
 Delta R.T. 0.000 min
 Lab File: VL042156.D
 Acq: 17 Mar 2025 14:09

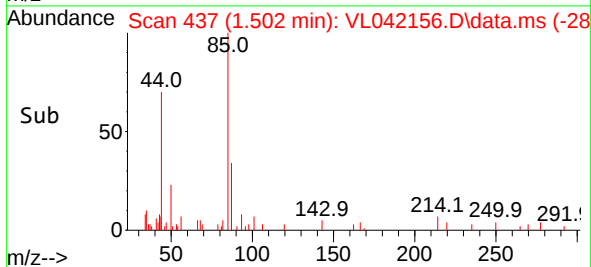
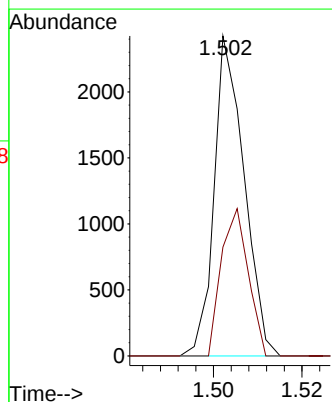
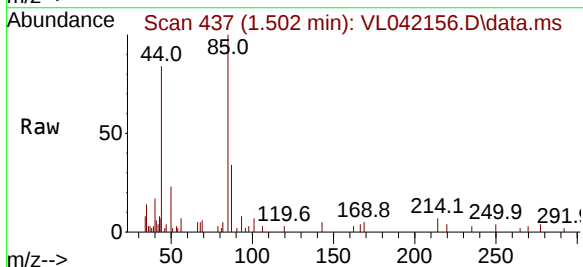
Instrument :
 MSVOA_L
 ClientSampleId :
 557-SG-1

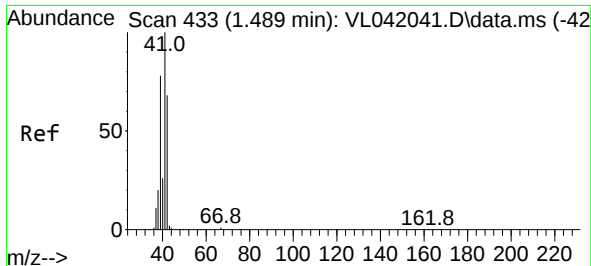
Tgt Ion: 49 Resp: 170524
 Ion Ratio Lower Upper
 49 100
 128 44.3 21.6 64.8
 130 55.9 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.064 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. -0.000 min
 Lab File: VL042156.D
 Acq: 17 Mar 2025 14:09

Tgt Ion: 85 Resp: 1139
 Ion Ratio Lower Upper
 85 100
 87 34.0 26.4 39.6





#9

Propene

Concen: 0.067 ppbv

RT: 1.489 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042156.D

Acq: 17 Mar 2025 14:09

Instrument :

MSVOA_1

ClientSampleId :

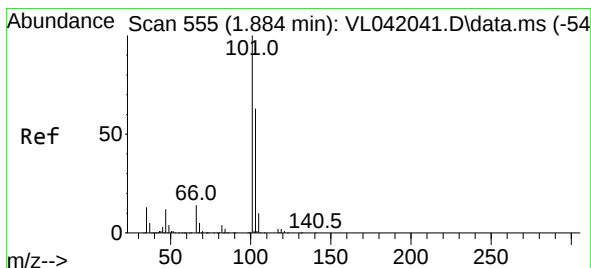
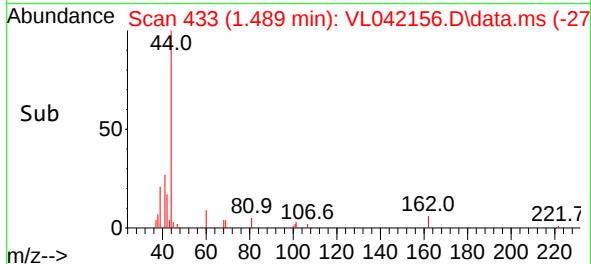
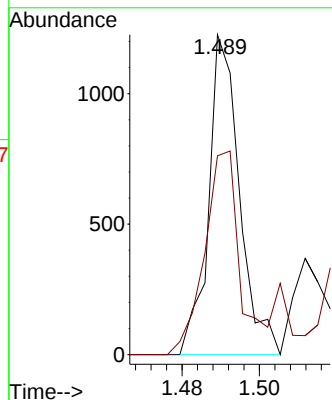
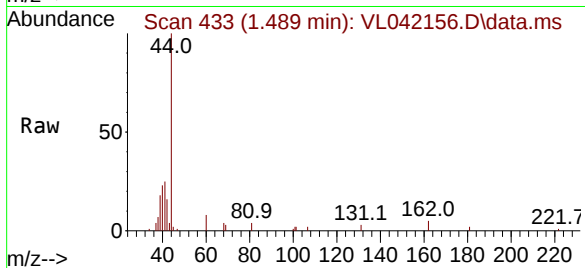
557-SG-1

Tgt Ion: 41 Resp: 676

Ion Ratio Lower Upper

41 100

42 88.5 55.8 83.6#



#11

Trichlorofluoromethane

Concen: 0.034 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042156.D

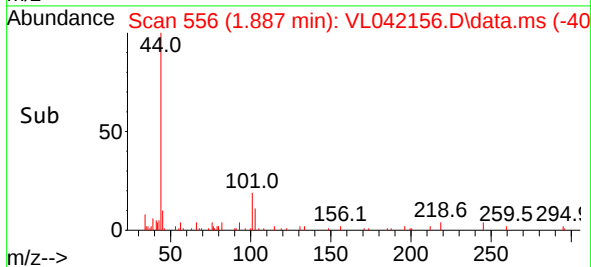
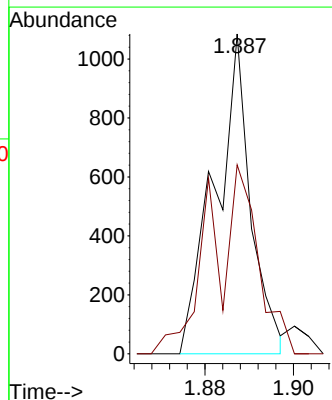
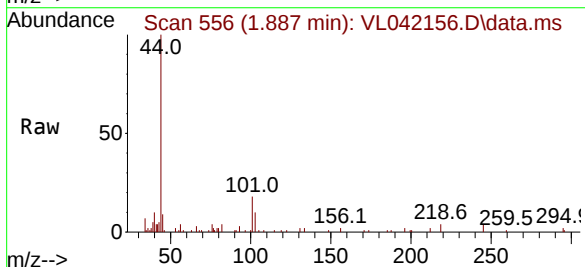
Acq: 17 Mar 2025 14:09

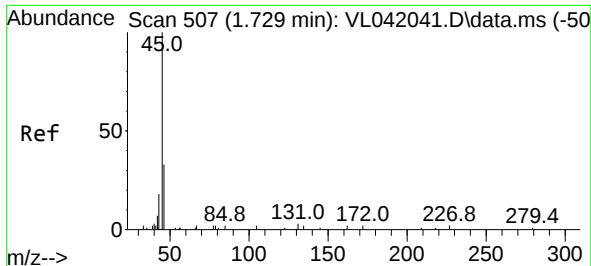
Tgt Ion:101 Resp: 607

Ion Ratio Lower Upper

101 100

103 52.4 50.6 75.8

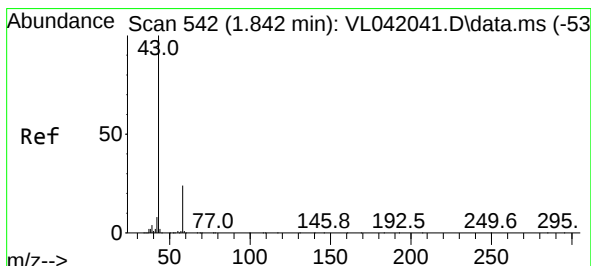
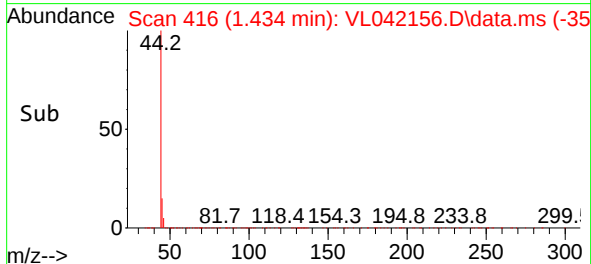
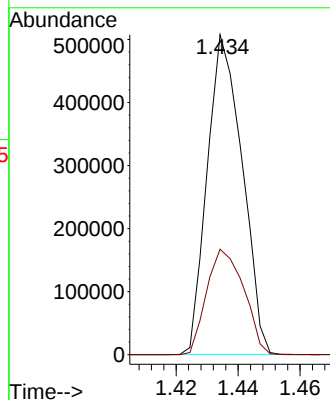
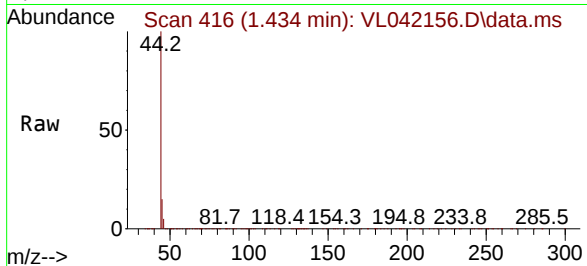




#13
Ethanol
Concen: 618.881 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.295 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

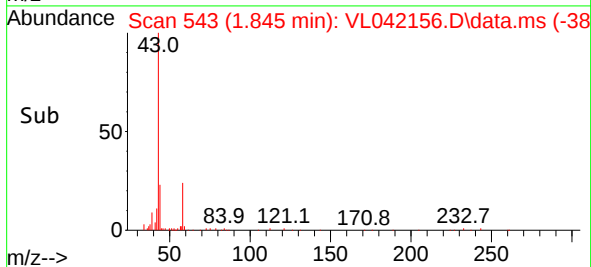
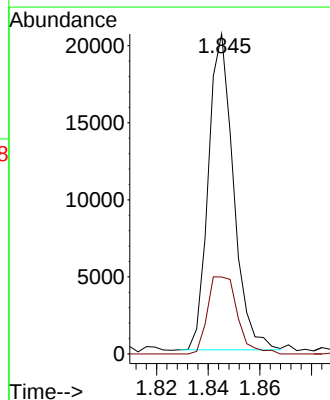
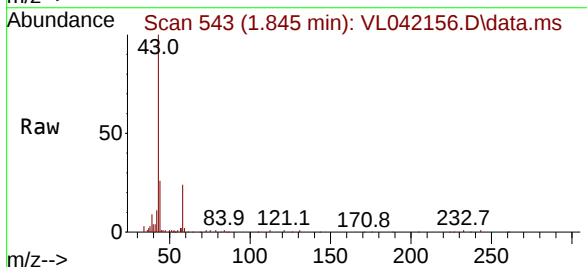
Instrument :
MSVOA_L
ClientSampleId :
557-SG-1

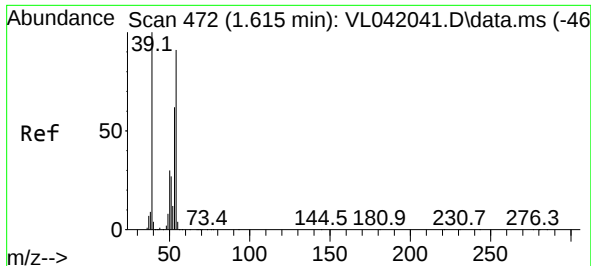
Tgt Ion: 45 Resp: 396663
Ion Ratio Lower Upper
45 100
46 35.2 17.1 68.3



#15
Acetone
Concen: 0.919 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

Tgt Ion: 43 Resp: 13833
Ion Ratio Lower Upper
43 100
58 29.1 20.7 31.1

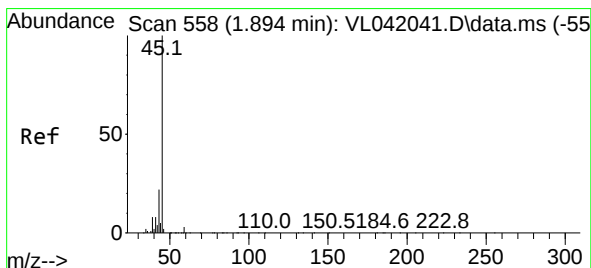
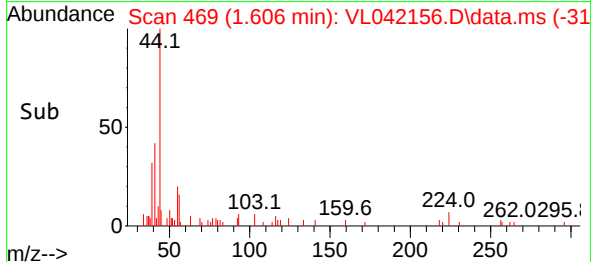
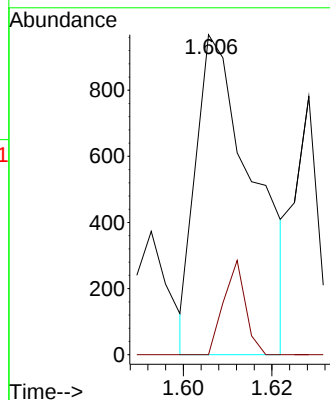
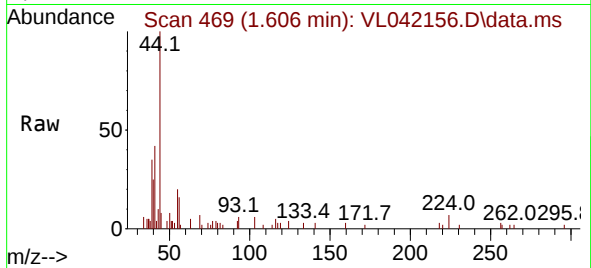




#16
1,3-Butadiene
Concen: 0.124 ppbv
RT: 1.606 min Scan# 416
Delta R.T. -0.010 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

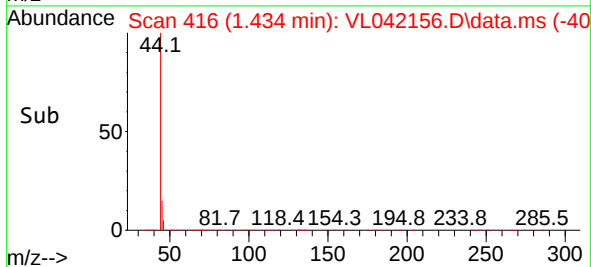
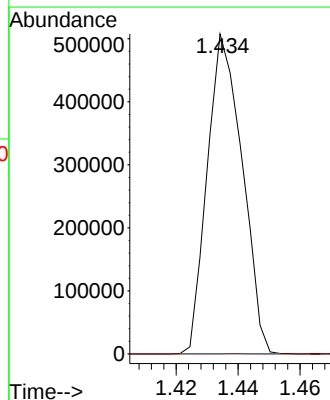
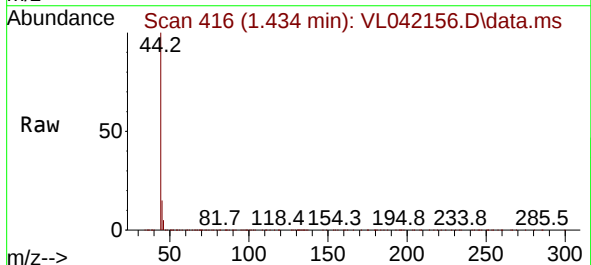
Instrument :
MSVOA_L
ClientSampleId :
557-SG-1

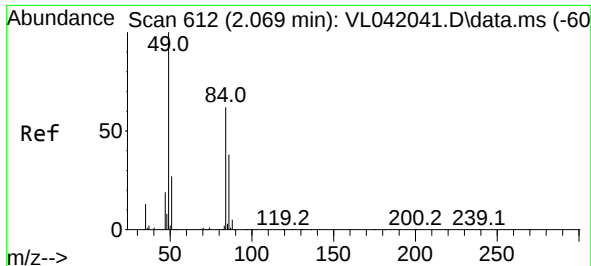
Tgt Ion: 39 Resp: 866
Ion Ratio Lower Upper
39 100
54 11.2 59.6 89.4#



#19
Isopropyl Alcohol
Concen: 45.856 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.460 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

Tgt Ion: 45 Resp: 396663
Ion Ratio Lower Upper
45 100
58 0.0 35.3 52.9#

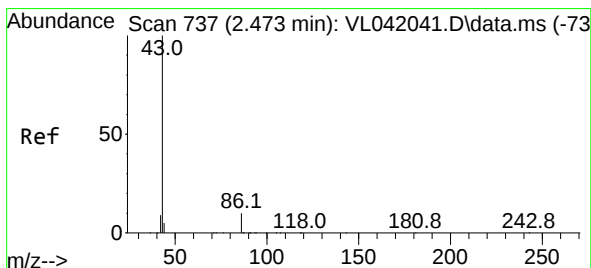
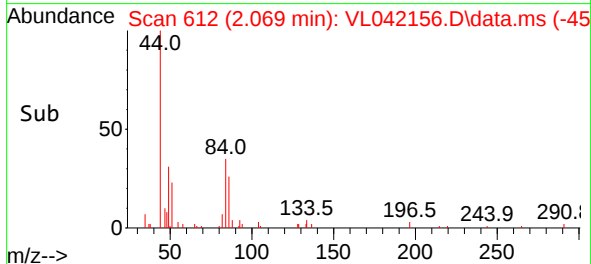
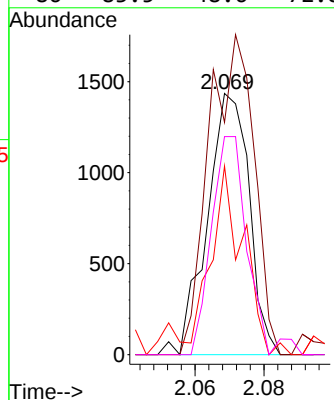
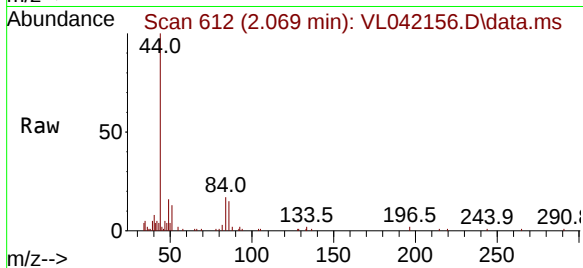




#20
Methylene Chloride
Concen: 0.211 ppbv
RT: 2.069 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

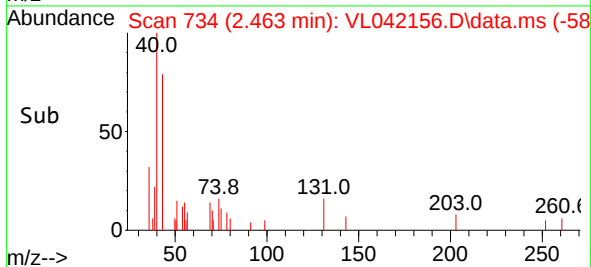
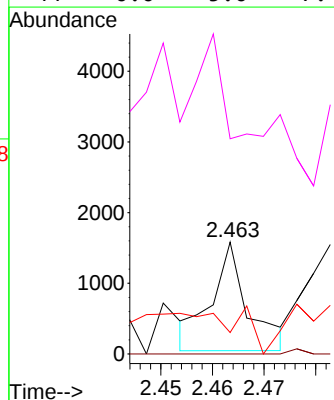
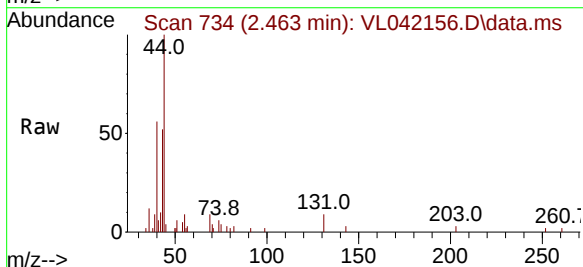
Instrument :
MSVOA_L
ClientSampleId :
557-SG-1

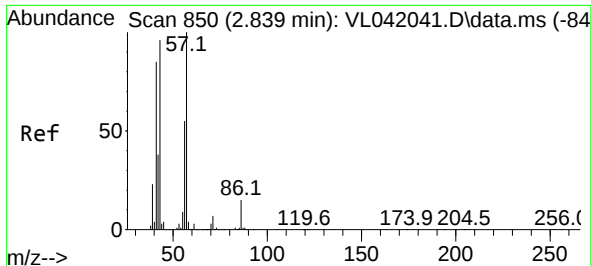
Tgt Ion: 84 Resp: 1203
Ion Ratio Lower Upper
84 100
49 88.9 130.0 195.0#
51 67.7 37.4 56.0#
86 83.5 48.6 72.8#



#23
Vinyl Acetate
Concen: 0.071 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.010 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

Tgt Ion: 43 Resp: 755
Ion Ratio Lower Upper
43 100
86 0.0 7.0 10.4#
42 0.0 7.6 11.4#
44 0.0 5.0 7.4#

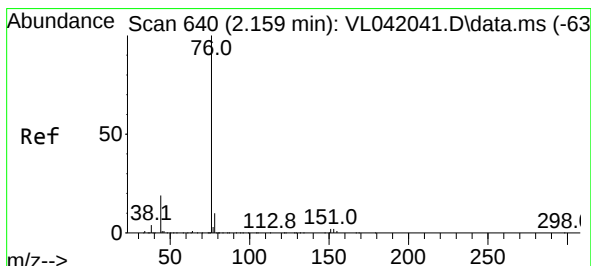
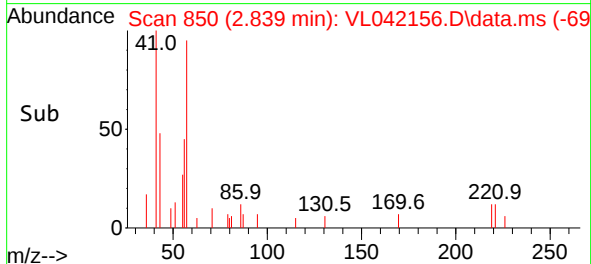
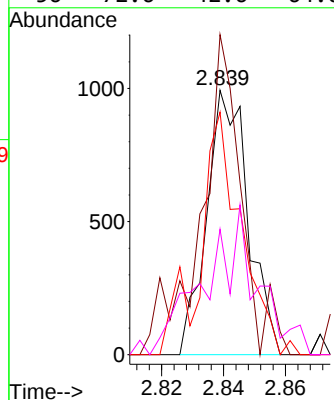
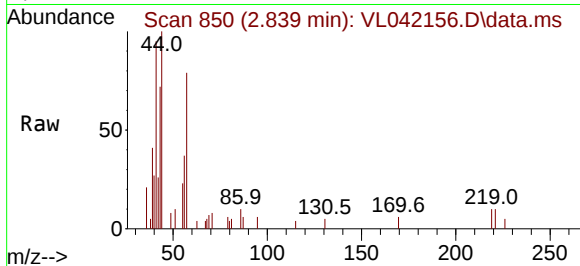




#26
Hexane
Concen: 0.038 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

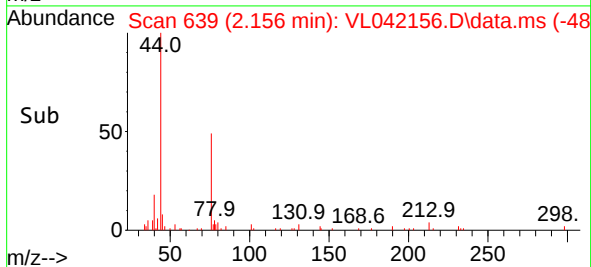
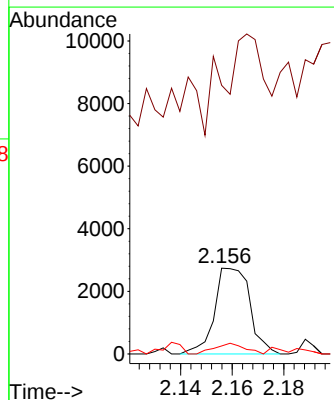
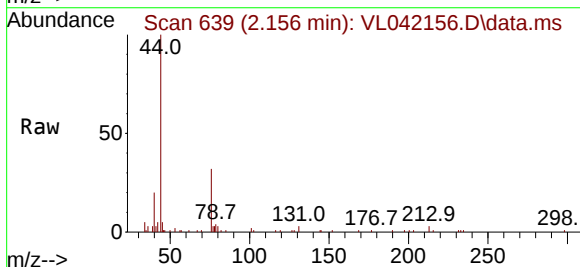
Instrument :
MSVOA_L
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557-SG-1

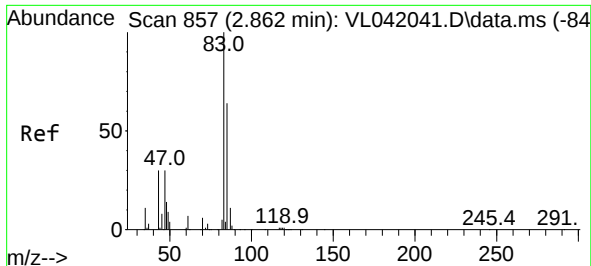
Tgt Ion:	57	Resp:	922
Ion	Ratio	Lower	Upper
57	100		
41	143.7	70.6	106.0#
43	90.9	199.4	299.0#
56	72.6	42.6	64.0#



#27
Carbon Disulfide
Concen: 0.158 ppbv
RT: 2.156 min Scan# 639
Delta R.T. -0.003 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

Tgt Ion:	76	Resp:	2604
Ion	Ratio	Lower	Upper
76	100		
44	993.2	16.2	24.2#
78	16.4	9.4	14.0#





#29

Chloroform

Concen: 0.079 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042156.D

Acq: 17 Mar 2025 14:09

Instrument :

MSVOA_L

ClientSampleId :

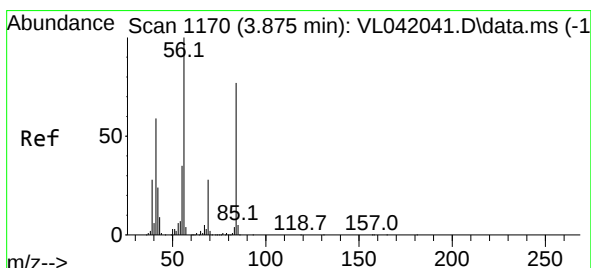
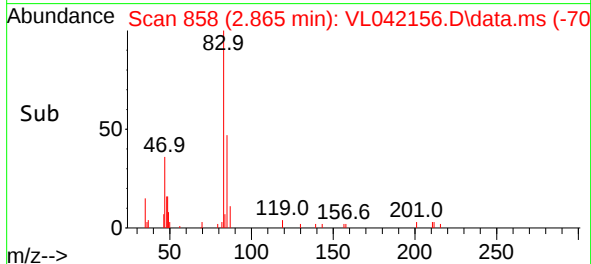
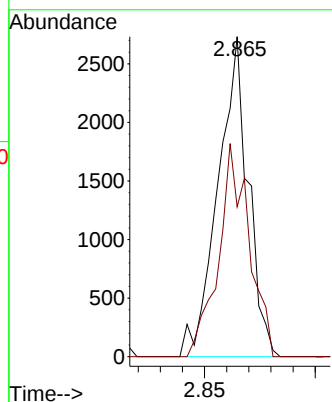
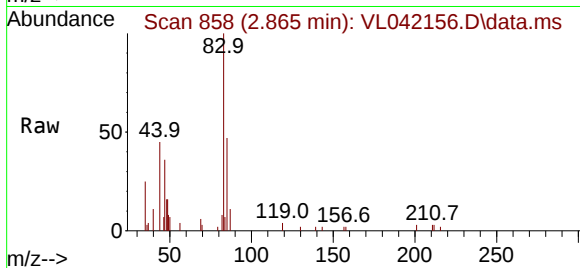
557-SG-1

Tgt Ion: 83 Resp: 2594

Ion Ratio Lower Upper

83 100

85 43.8 51.2 76.8#



#30

Cyclohexane

Concen: 0.041 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.091 min

Lab File: VL042156.D

Acq: 17 Mar 2025 14:09

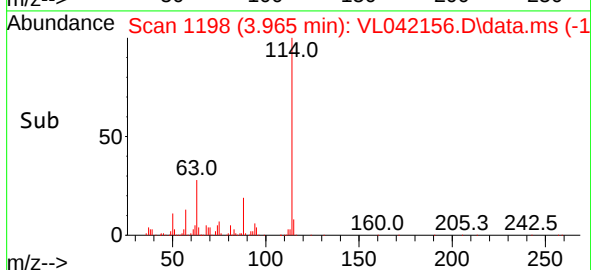
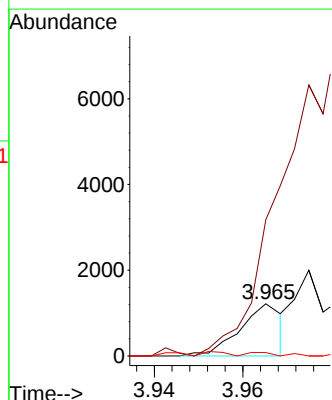
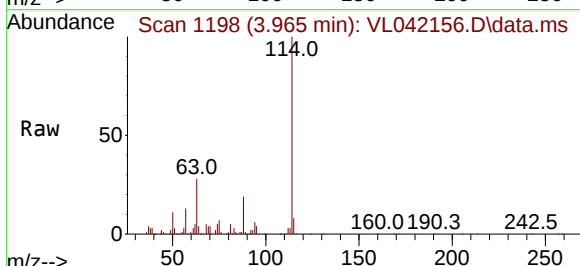
Tgt Ion: 84 Resp: 803

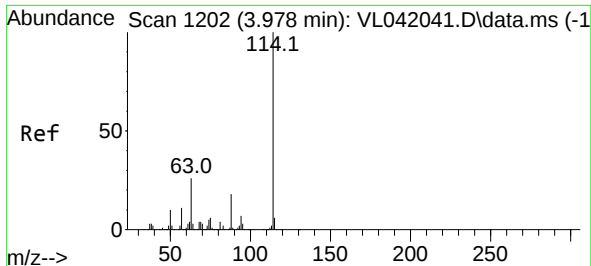
Ion Ratio Lower Upper

84 100

56 0.0 101.5 152.3#

41 13.2 62.6 93.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL042156.D

Acq: 17 Mar 2025 14:09

Instrument :

MSVOA_1

ClientSampleId :

557-SG-1

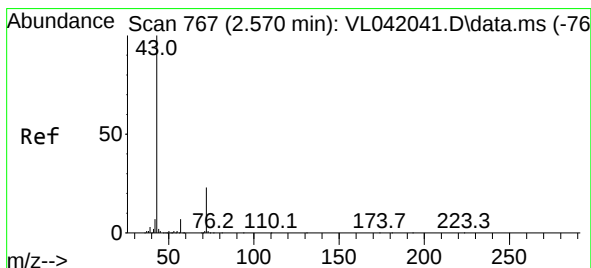
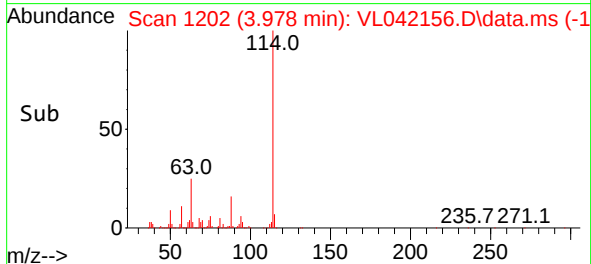
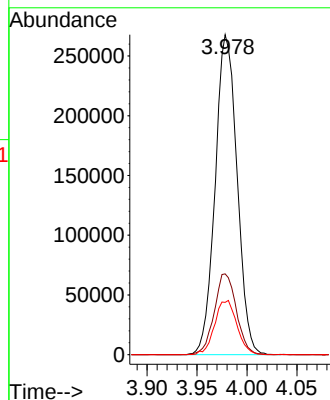
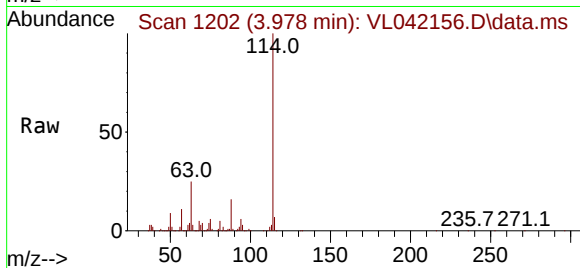
Tgt Ion:114 Resp: 408641

Ion Ratio Lower Upper

114 100

63 25.6 20.1 30.1

88 17.3 14.3 21.5



#34

2-Butanone

Concen: 0.094 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.006 min

Lab File: VL042156.D

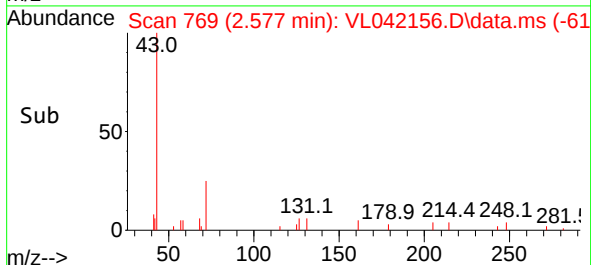
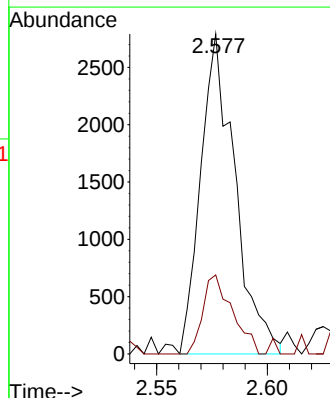
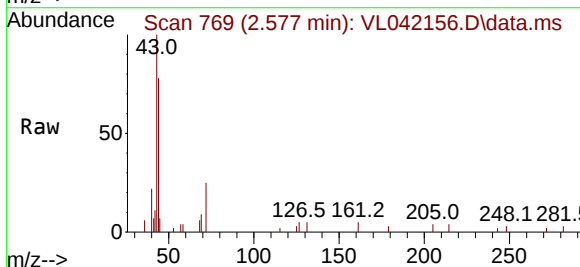
Acq: 17 Mar 2025 14:09

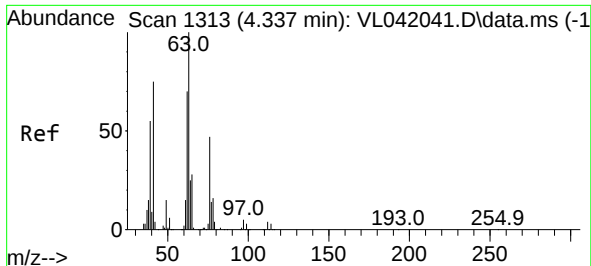
Tgt Ion: 43 Resp: 3004

Ion Ratio Lower Upper

43 100

72 22.1 18.5 27.7





#39

1,2-Dichloropropane

Concen: 6.444 ppbv

RT: 3.978 min Scan# 11

Delta R.T. -0.359 min

Lab File: VL042156.D

Acq: 17 Mar 2025 14:09

Instrument :

MSVOA_1

ClientSampleId :

557-SG-1

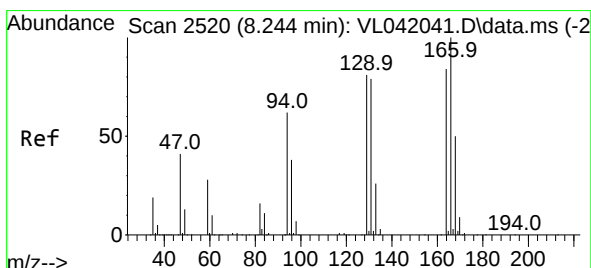
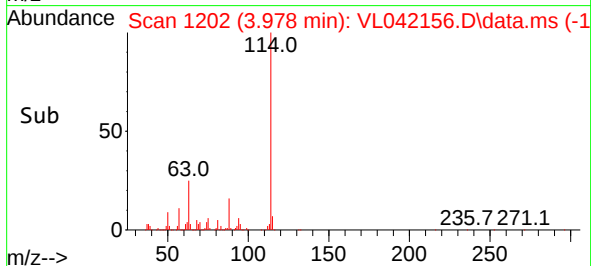
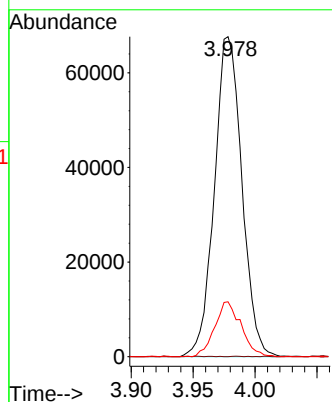
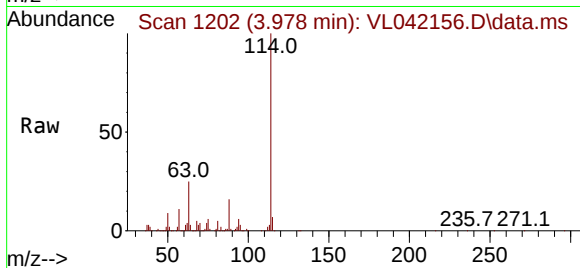
Tgt Ion: 63 Resp: 104626

Ion Ratio Lower Upper

63 100

41 0.0 60.1 90.1#

62 17.2 55.8 83.8#



#52

Tetrachloroethene

Concen: 0.172 ppbv

RT: 8.244 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VL042156.D

Acq: 17 Mar 2025 14:09

Tgt Ion: 164 Resp: 2521

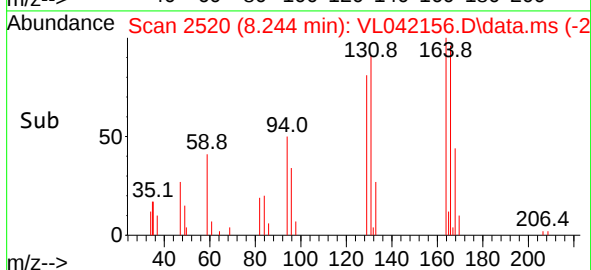
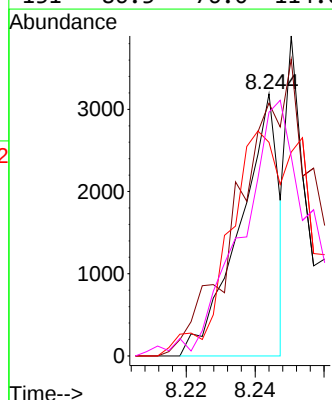
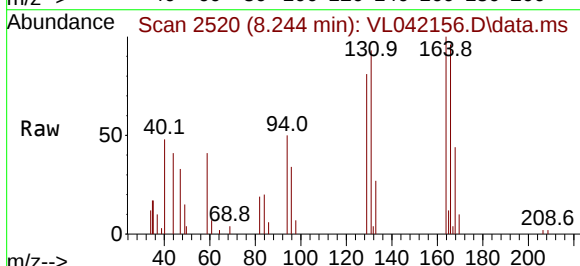
Ion Ratio Lower Upper

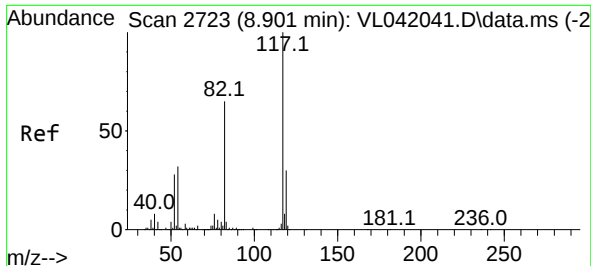
164 100

166 90.2 95.7 143.5#

129 73.2 77.1 115.7#

131 86.3 76.0 114.0

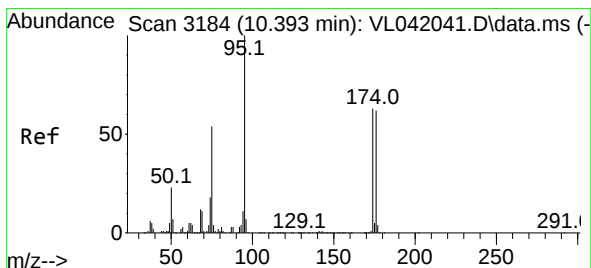
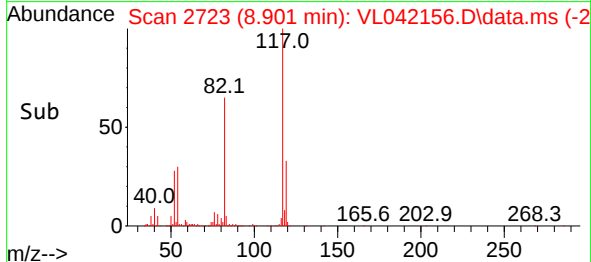
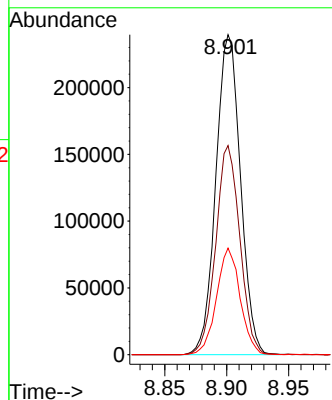
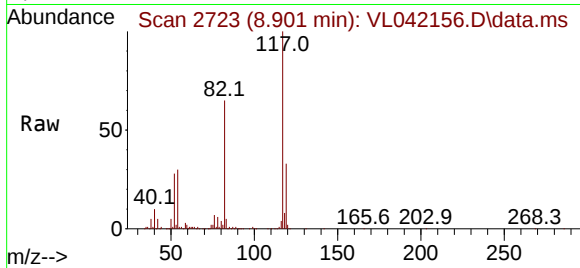




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

Instrument :
MSVOA_1
ClientSampleId :
557-SG-1

Tgt Ion:117 Resp: 332614
Ion Ratio Lower Upper
117 100
82 64.1 55.0 82.6
119 31.9 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.891 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042156.D
Acq: 17 Mar 2025 14:09

Tgt Ion: 95 Resp: 253101
Ion Ratio Lower Upper
95 100
174 65.1 51.8 77.6
175 4.8 3.9 5.9

