

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042818.D
 Acq On : 04 Aug 2025 22:31
 Operator : SY/MD
 Sample : Q2750-07DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:14:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

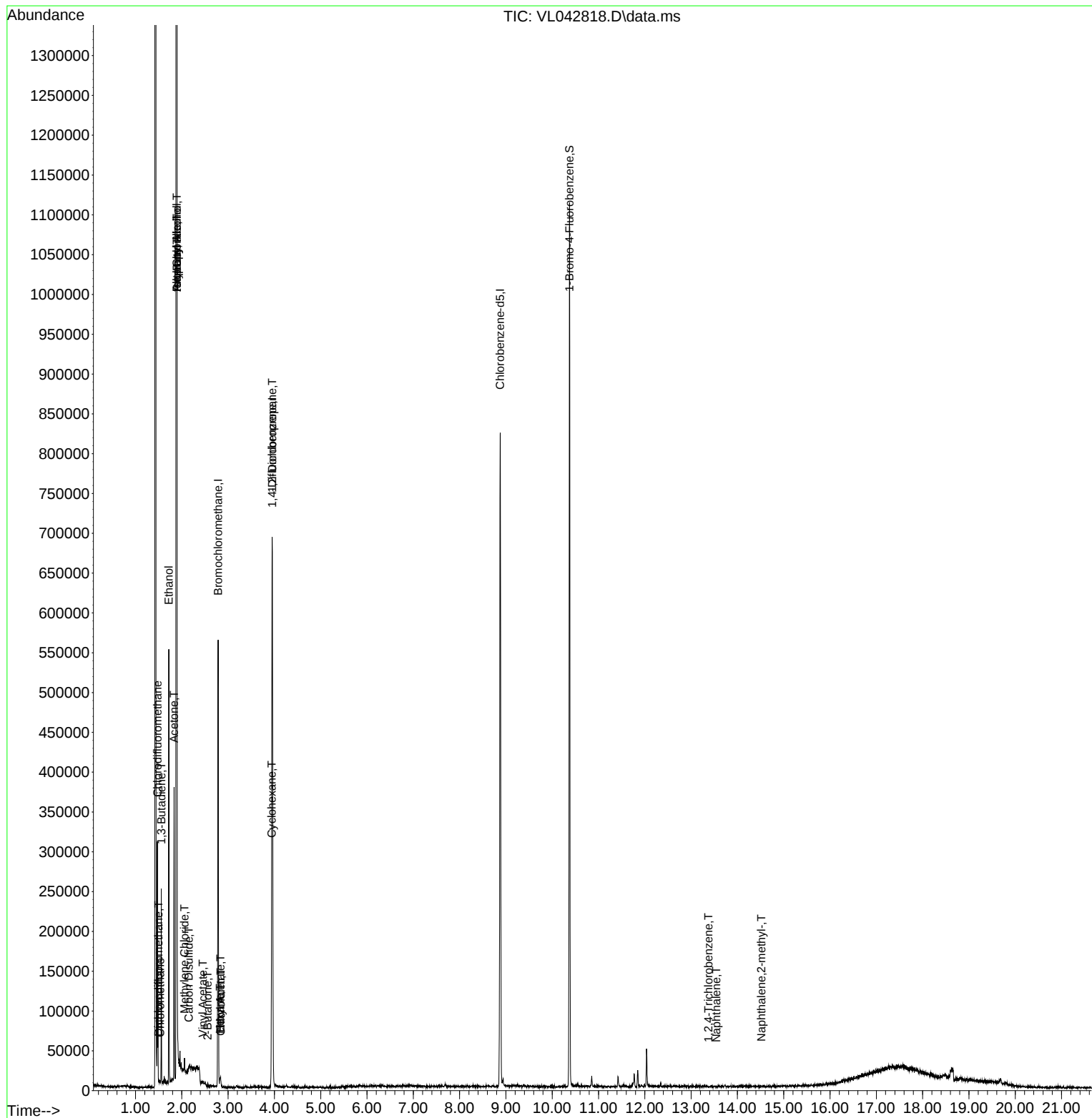
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

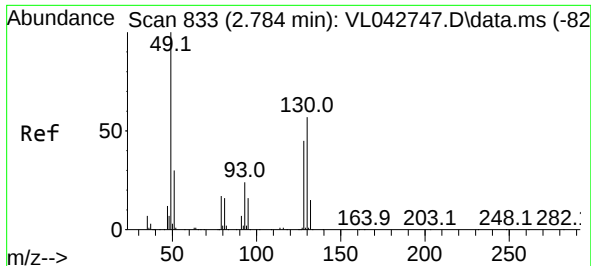
Internal Standards						
1) Bromochloromethane	2.784	49	146776	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	381523	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	323135	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	246263	9.623	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	732	0.038	ppbv #	69
3) Chlorodifluoromethane	1.473	51	88603	3.505	ppbv	100
4) Chloromethane	1.531	50	464	0.059	ppbv #	79
9) Propene	1.891	41	971345	105.721	ppbv	93
13) Ethanol	1.719	45	184153	274.119	ppbv	89
15) Acetone	1.832	43	153225	7.560	ppbv	99
16) 1,3-Butadiene	1.557	39	13366	1.546	ppbv #	18
17) tert-Butyl alcohol	1.891	59	418993	22.922	ppbv #	94
19) Isopropyl Alcohol	1.891	45	4073948	378.255	ppbv #	40
20) Methylene Chloride	2.059	84	2037	0.319	ppbv	87
21) Allyl Chloride	1.891	41	971345	77.763	ppbv #	84
23) Vinyl Acetate	2.454	43	1866	0.076	ppbv #	87
25) Ethyl Acetate	2.839	43	7254	0.162	ppbv #	89
26) Hexane	2.823	57	1411	0.072	ppbv #	1
27) Carbon Disulfide	2.150	76	2245	0.133	ppbv #	62
29) Chloroform	2.842	83	1334	0.044	ppbv #	47
30) Cyclohexane	3.939	84	892	0.053	ppbv #	16
34) 2-Butanone	2.557	43	1535	0.057	ppbv #	90
39) 1,2-Dichloropropane	3.952	63	98800	7.402	ppbv #	21
79) Naphthalene	13.543	128	58	0.436	ppbv #	69
80) Naphthalene,2-methyl-	14.514	142	55	1.131	ppbv #	67
81) 1,2,4-Trichlorobenzene	13.374	180	41	0.436	ppbv #	12

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

ClientSampleId :

Response via : Initial Calibration

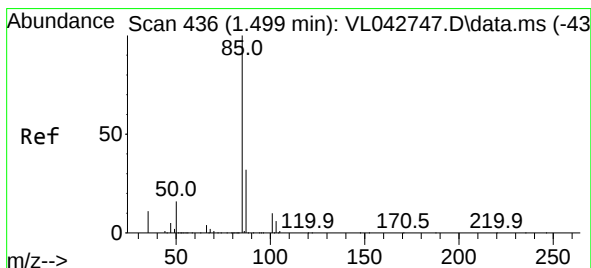
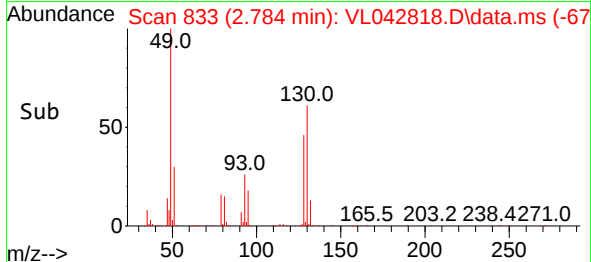
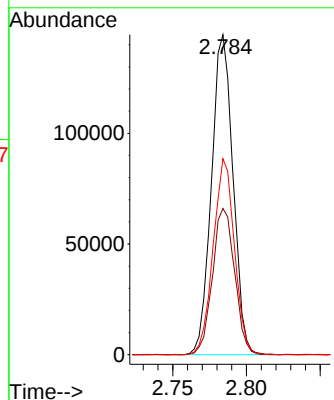
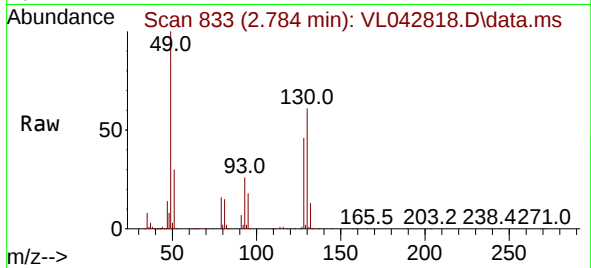




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042818.D
 Acq: 04 Aug 2025 22:31

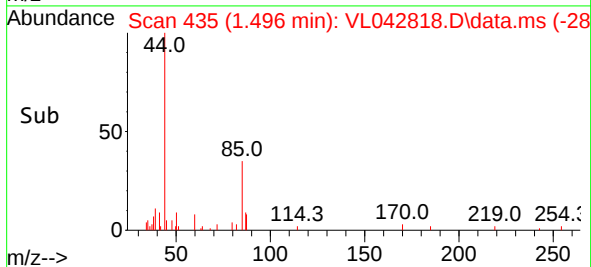
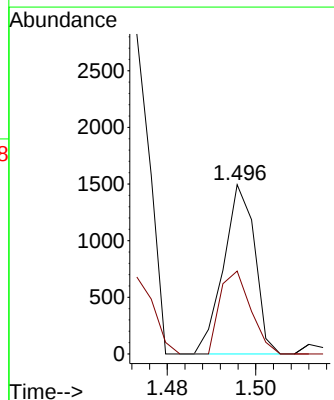
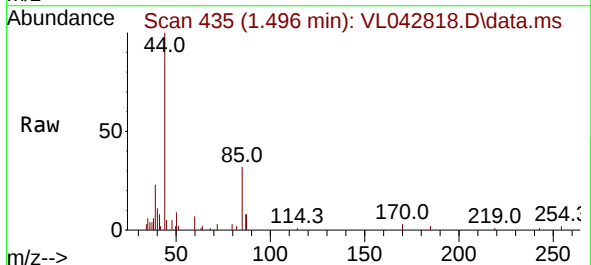
Instrument :
 MSVOA_L
 ClientSampleId :

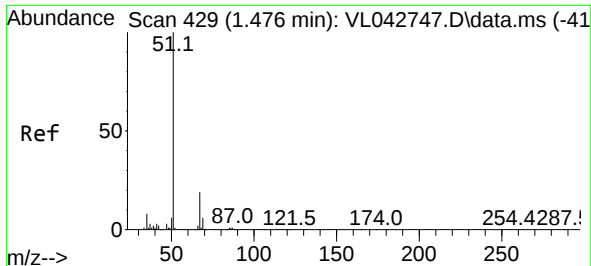
Tgt Ion: 49 Resp: 146776
 Ion Ratio Lower Upper
 49 100
 128 47.1 23.6 71.0
 130 60.5 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.038 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042818.D
 Acq: 04 Aug 2025 22:31

Tgt Ion: 85 Resp: 732
 Ion Ratio Lower Upper
 85 100
 87 48.9 25.4 38.2#

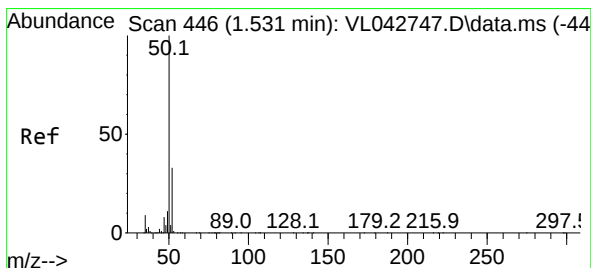
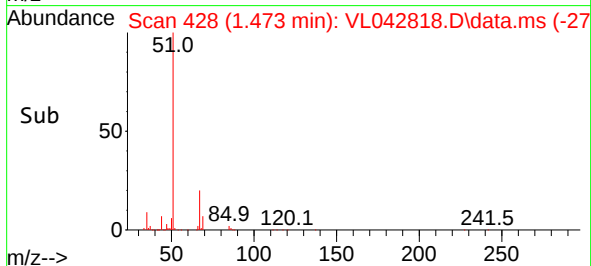
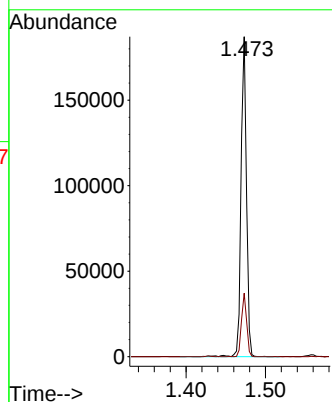
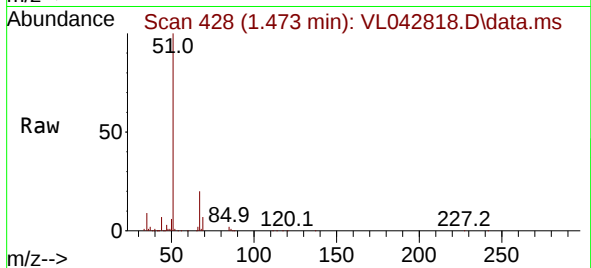




#3
Chlorodifluoromethane
Concen: 3.505 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

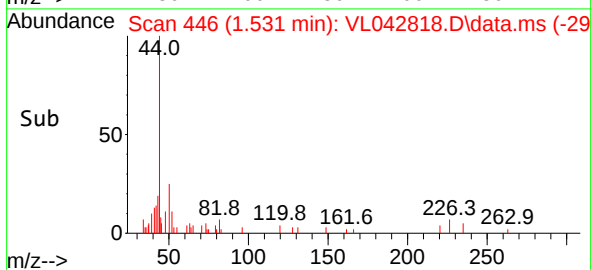
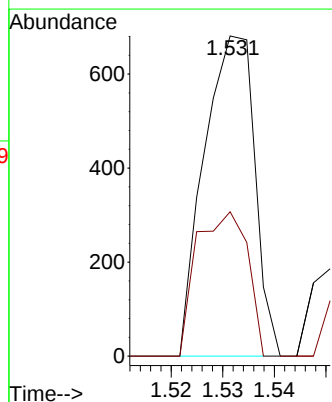
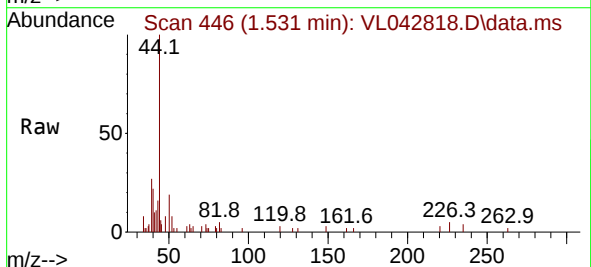
Instrument :
MSVOA_L
ClientSampleId :

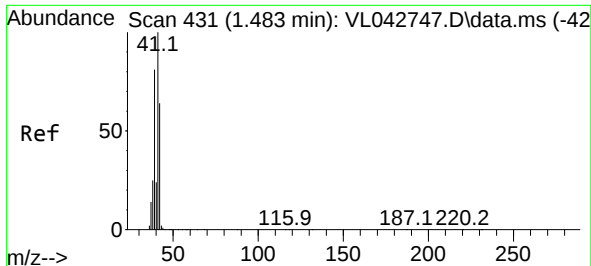
Tgt Ion: 51 Resp: 88603
Ion Ratio Lower Upper
51 100
67 19.0 15.0 22.6



#4
Chloromethane
Concen: 0.059 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 50 Resp: 464
Ion Ratio Lower Upper
50 100
52 45.1 26.6 40.0#

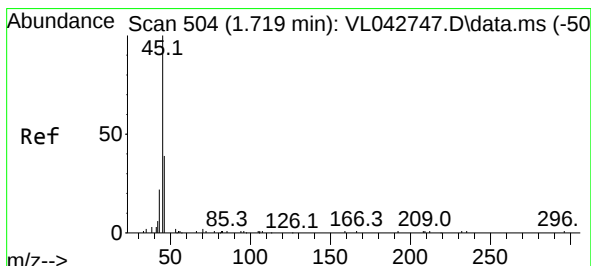
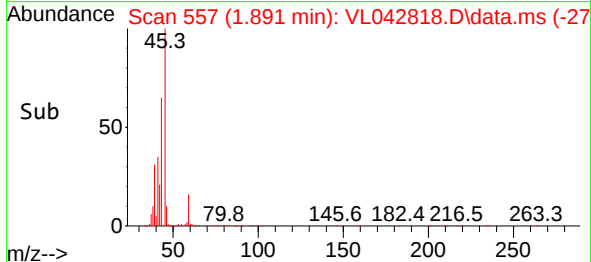
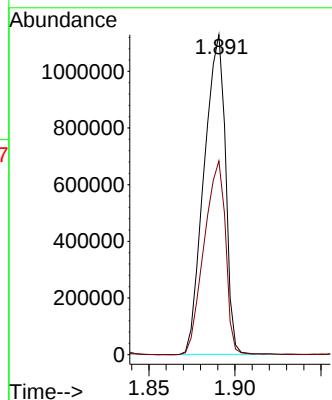
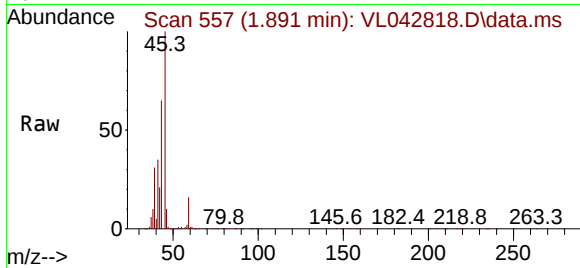




#9
 Propene
 Concen: 105.721 ppbv
 RT: 1.891 min Scan# 51
 Delta R.T. 0.408 min
 Lab File: VL042818.D
 Acq: 04 Aug 2025 22:31

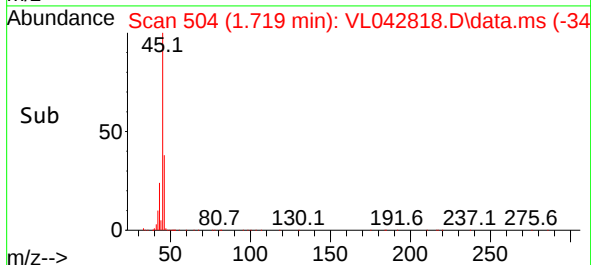
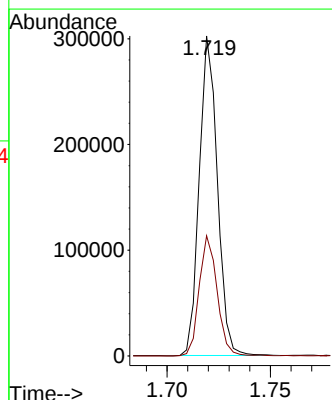
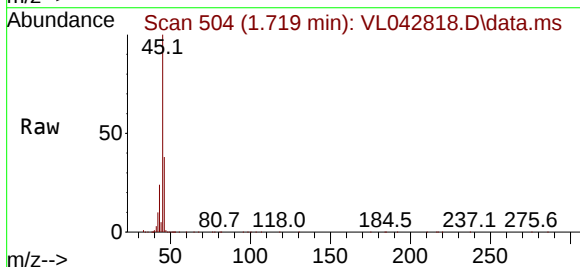
Instrument :
 MSVOA_L
 ClientSampleId :

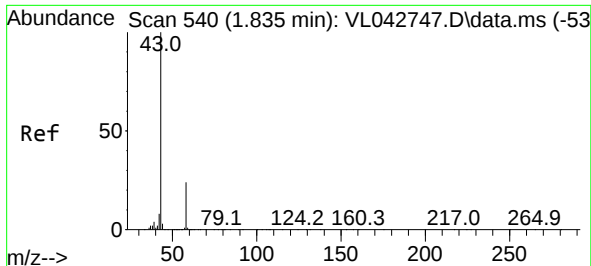
Tgt Ion: 41 Resp: 971345
 Ion Ratio Lower Upper
 41 100
 42 60.8 53.2 79.8



#13
 Ethanol
 Concen: 274.119 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042818.D
 Acq: 04 Aug 2025 22:31

Tgt Ion: 45 Resp: 184153
 Ion Ratio Lower Upper
 45 100
 46 37.5 17.8 71.4

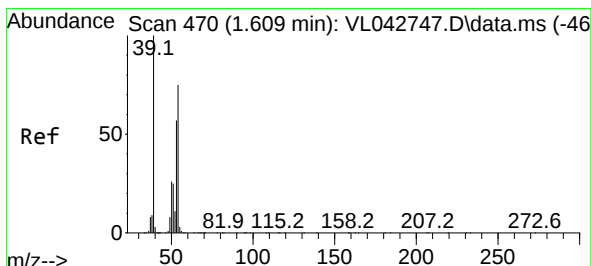
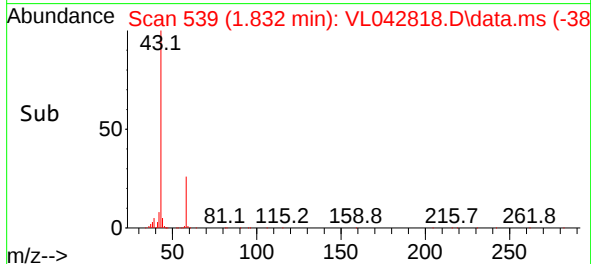
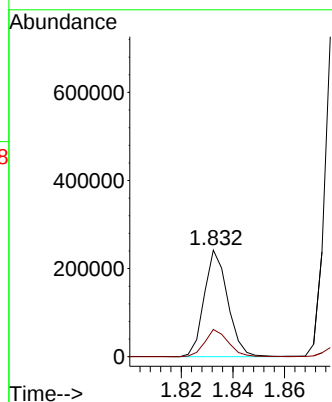
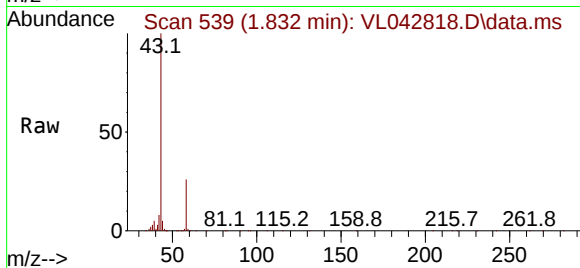




#15
Acetone
Concen: 7.560 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

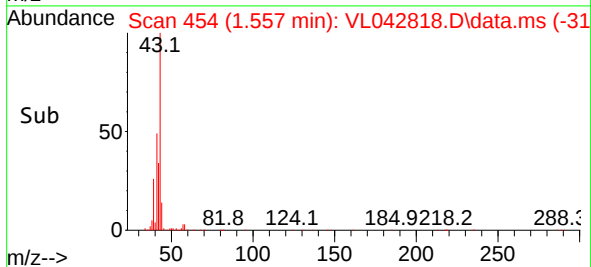
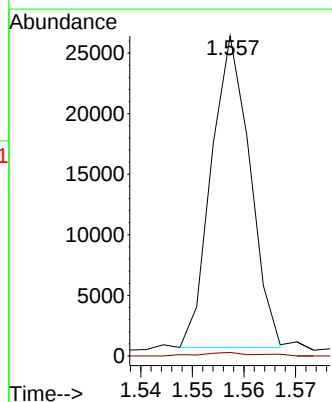
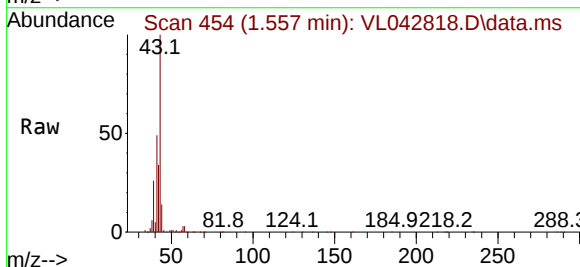
Instrument :
MSVOA_L
ClientSampleId :

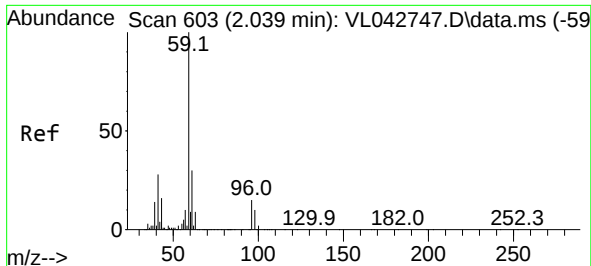
Tgt Ion: 43 Resp: 153225
Ion Ratio Lower Upper
43 100
58 25.5 19.8 29.8



#16
1,3-Butadiene
Concen: 1.546 ppbv
RT: 1.557 min Scan# 454
Delta R.T. -0.052 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 39 Resp: 13366
Ion Ratio Lower Upper
39 100
54 1.6 54.5 81.7#





#17

tert-Butyl alcohol

Concen: 22.922 ppbv

RT: 1.891 min Scan# 557

Delta R.T. -0.149 min

Lab File: VL042818.D

Acq: 04 Aug 2025 22:31

Instrument :

MSVOA_L

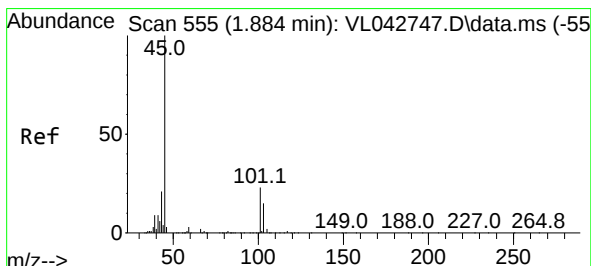
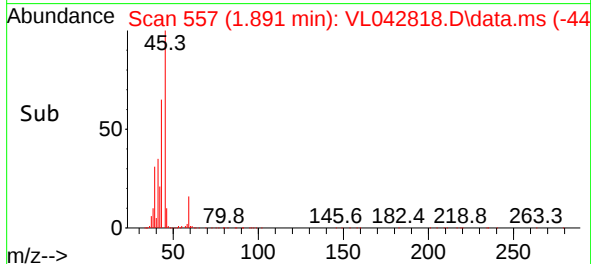
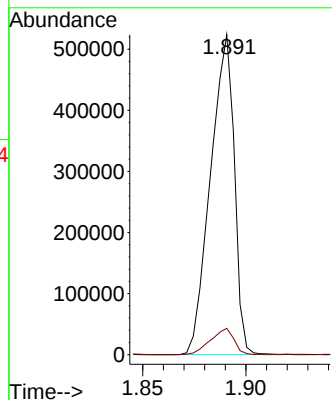
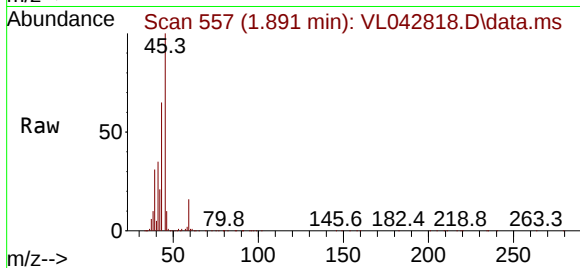
ClientSampleId :

Tgt Ion: 59 Resp: 418993

Ion Ratio Lower Upper

59 100

57 8.2 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 378.255 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042818.D

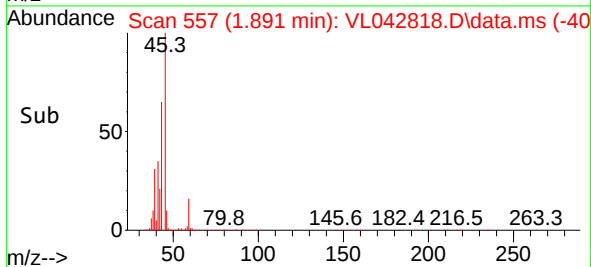
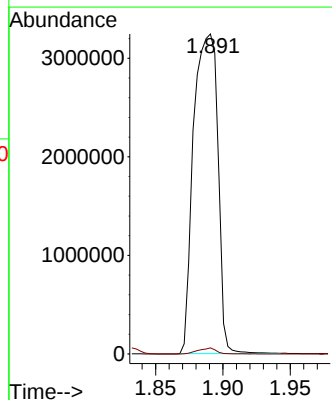
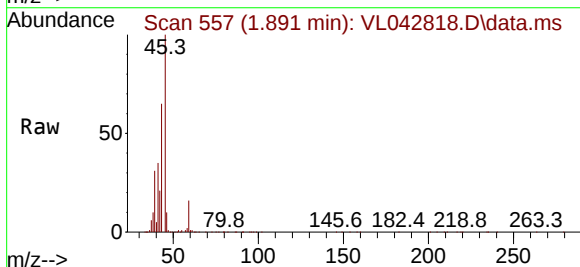
Acq: 04 Aug 2025 22:31

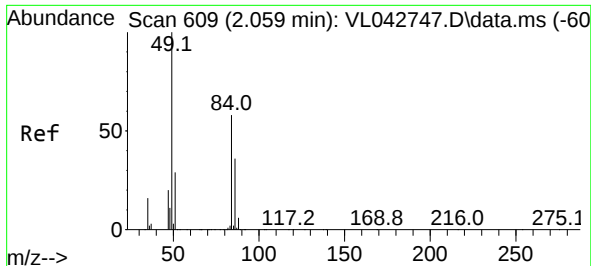
Tgt Ion: 45 Resp: 4073948

Ion Ratio Lower Upper

45 100

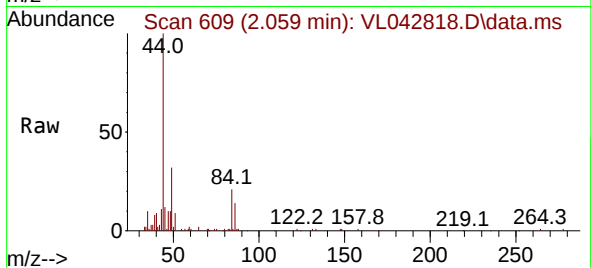
58 1.5 30.0 45.0#





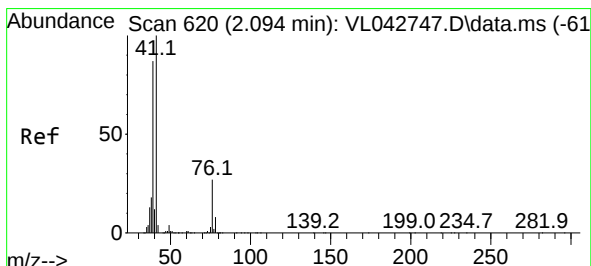
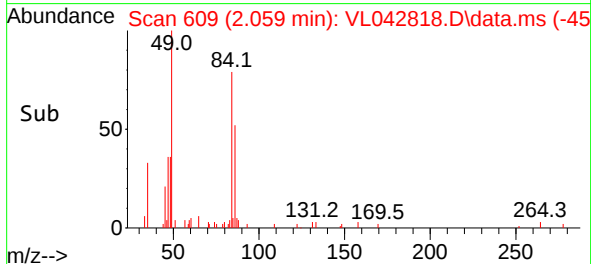
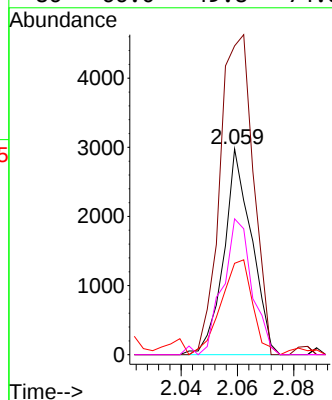
#20
Methylene Chloride
Concen: 0.319 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 2037

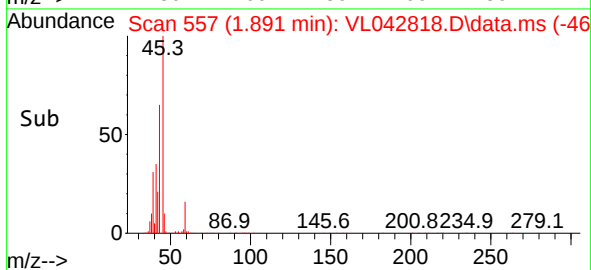
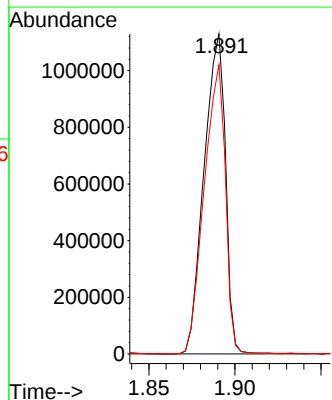
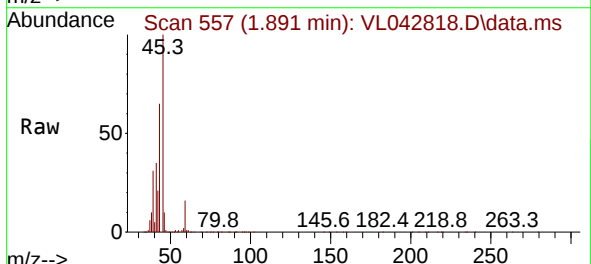
Ion	Ratio	Lower	Upper
84	100		
49	150.0	138.6	208.0
51	44.4	40.6	61.0
86	66.0	49.8	74.8

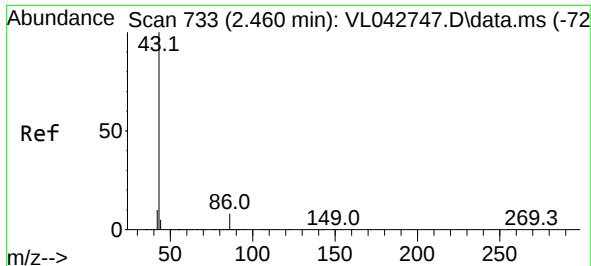


#21
Allyl Chloride
Concen: 77.763 ppbv
RT: 1.891 min Scan# 557
Delta R.T. -0.204 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 41 Resp: 971345

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.1	31.7#
39	89.9	68.3	102.5

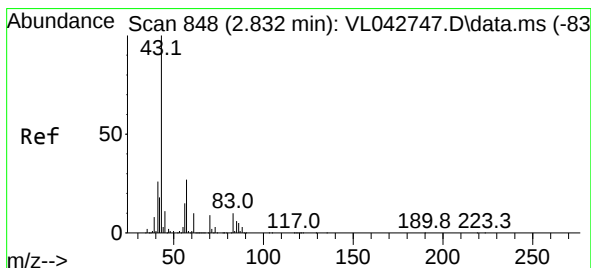
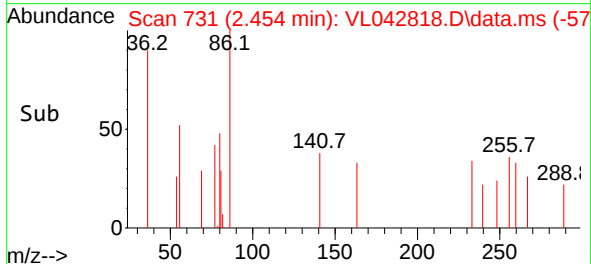
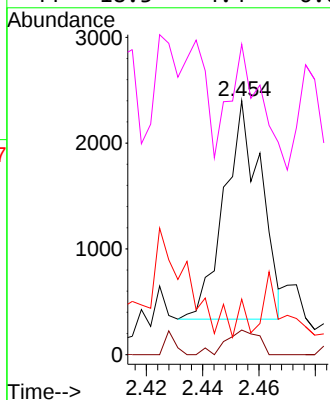
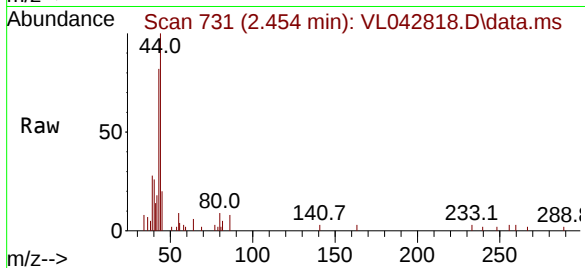




#23
 Vinyl Acetate
 Concen: 0.076 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VL042818.D
 Acq: 04 Aug 2025 22:31

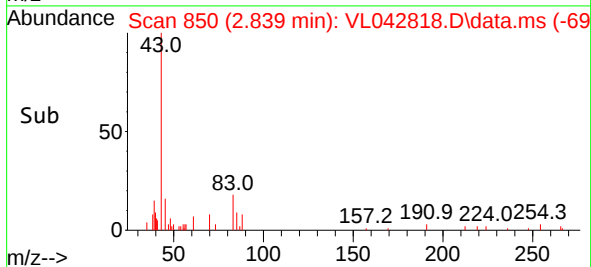
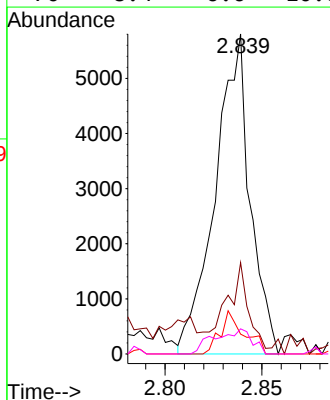
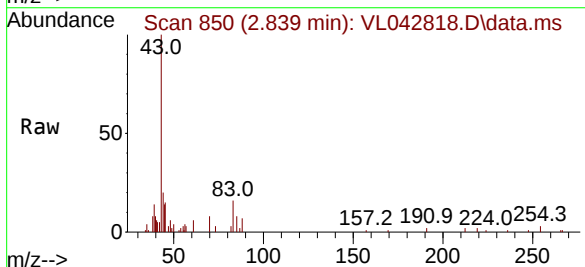
Instrument :
 MSVOA_L
 ClientSampleId :

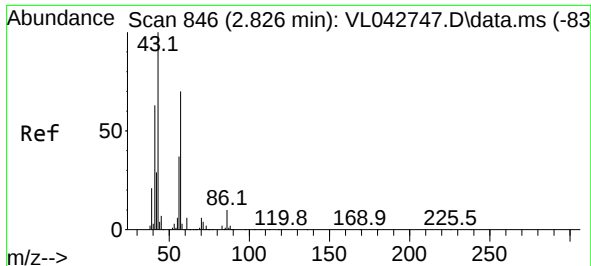
Tgt Ion: 43	Resp: 1866
Ion Ratio	Lower Upper
43 100	
86 11.2	6.1 9.1#
42 9.2	7.8 11.8
44 18.3	4.4 6.6#



#25
 Ethyl Acetate
 Concen: 0.162 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. 0.007 min
 Lab File: VL042818.D
 Acq: 04 Aug 2025 22:31

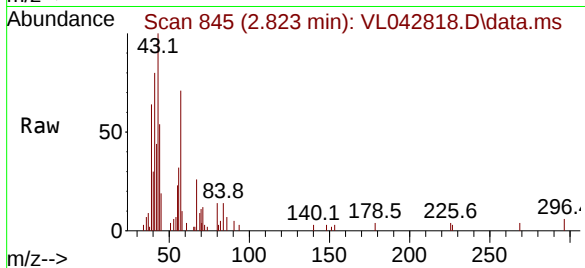
Tgt Ion: 43	Resp: 7254
Ion Ratio	Lower Upper
43 100	
45 20.0	7.8 11.6#
61 9.2	6.7 10.1
70 8.4	6.6 10.0





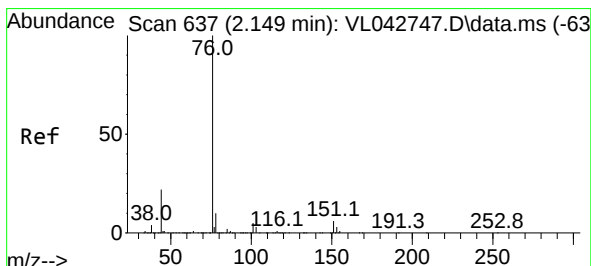
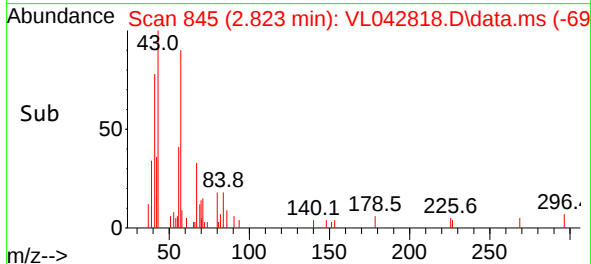
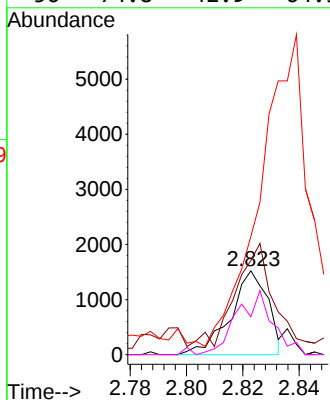
#26
Hexane
Concen: 0.072 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 1411

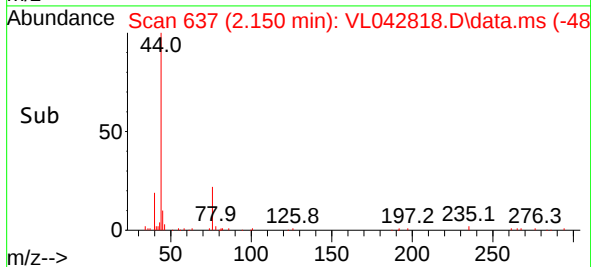
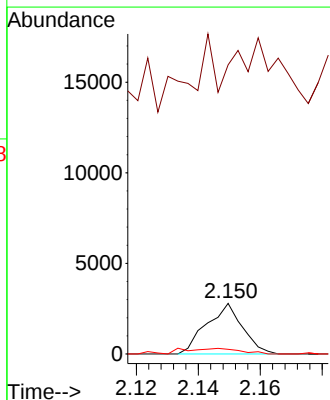
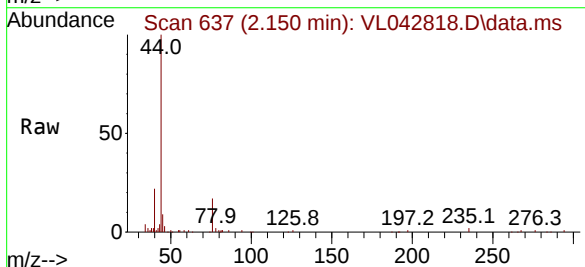
Ion	Ratio	Lower	Upper
57	100		
41	162.8	75.4	113.2#
43	0.0	185.0	277.6#
56	74.8	42.9	64.3#

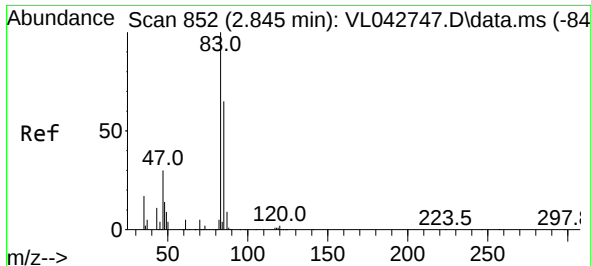


#27
Carbon Disulfide
Concen: 0.133 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion: 76 Resp: 2245

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	18.6	9.9	14.9#





#29

Chloroform

Concen: 0.044 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042818.D

Acq: 04 Aug 2025 22:31

Instrument :

MSVOA_L

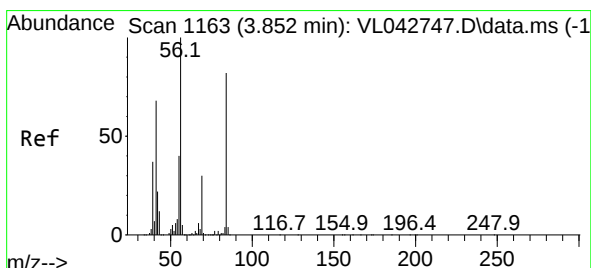
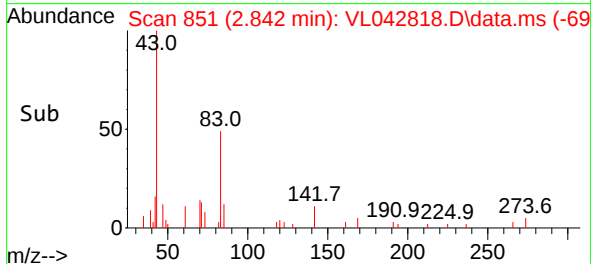
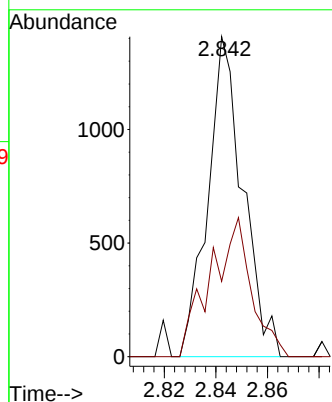
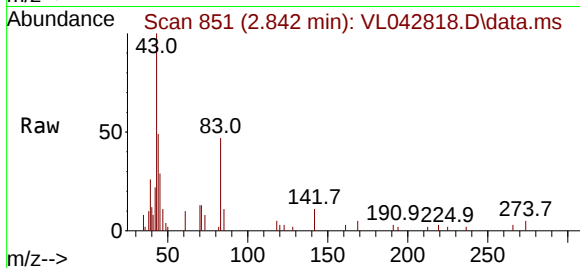
ClientSampleId :

Tgt Ion: 83 Resp: 1334

Ion Ratio Lower Upper

83 100

85 23.6 52.2 78.2#



#30

Cyclohexane

Concen: 0.053 ppbv

RT: 3.939 min Scan# 1190

Delta R.T. 0.088 min

Lab File: VL042818.D

Acq: 04 Aug 2025 22:31

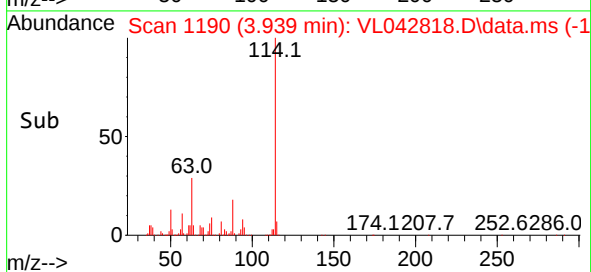
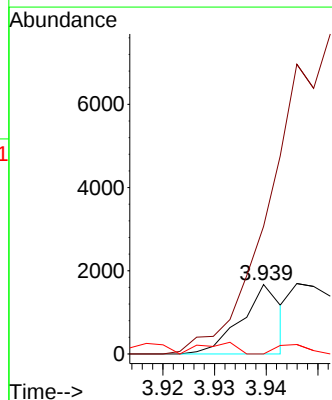
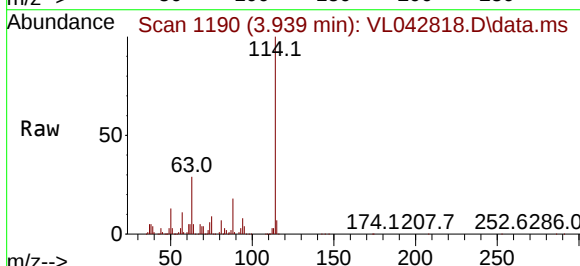
Tgt Ion: 84 Resp: 892

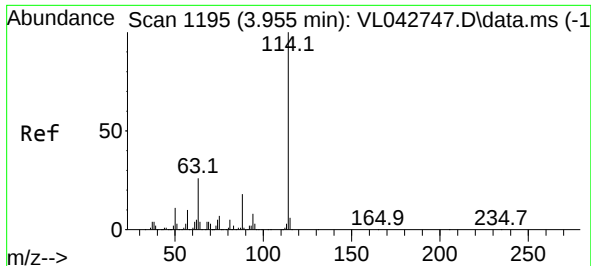
Ion Ratio Lower Upper

84 100

56 0.0 97.5 146.3#

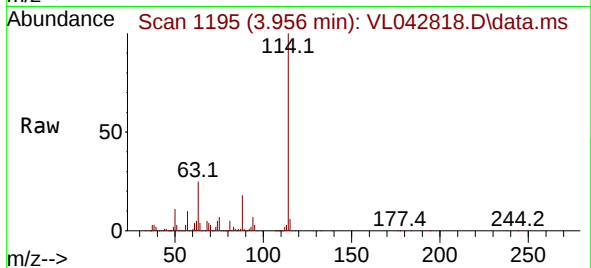
41 39.2 67.2 100.8#



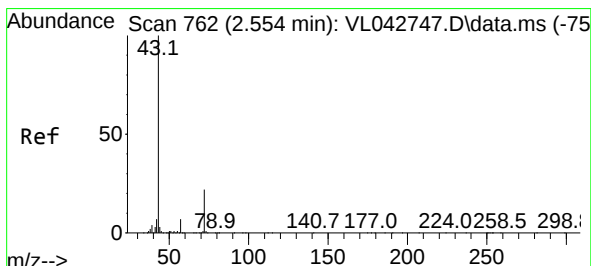
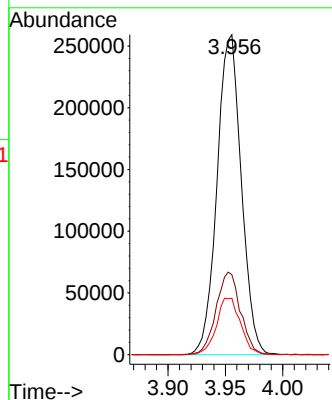
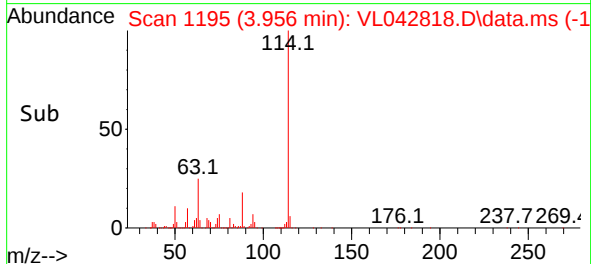


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

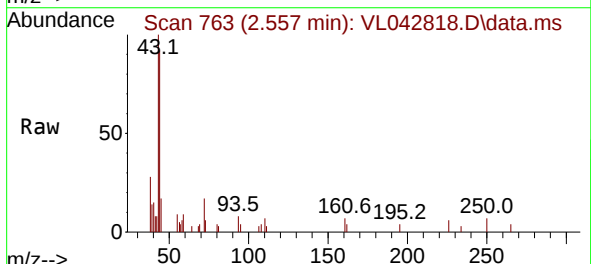
Instrument :
MSVOA_L
ClientSampleId :



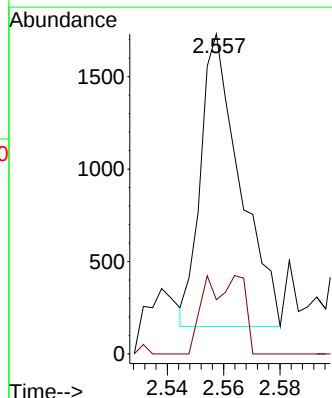
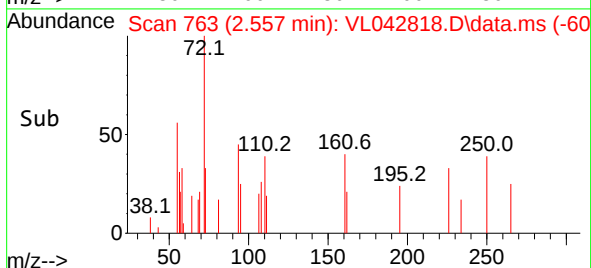
Tgt Ion:114 Resp: 381523
Ion Ratio Lower Upper
114 100
63 25.9 20.5 30.7
88 17.6 14.0 21.0

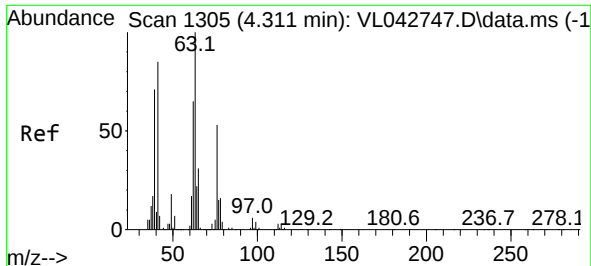


#34
2-Butanone
Concen: 0.057 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31



Tgt Ion: 43 Resp: 1535
Ion Ratio Lower Upper
43 100
72 26.5 17.4 26.0#





#39

1,2-Dichloropropane

Concen: 7.402 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042818.D

Acq: 04 Aug 2025 22:31

Instrument :

MSVOA_L

ClientSampleId :

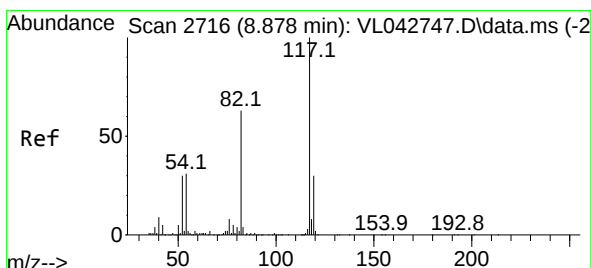
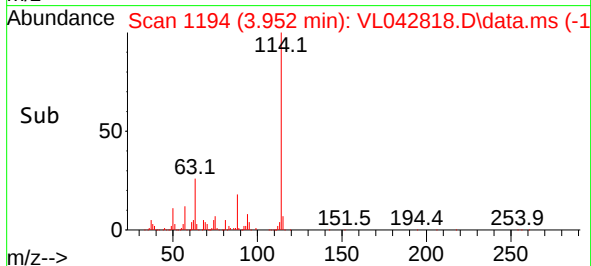
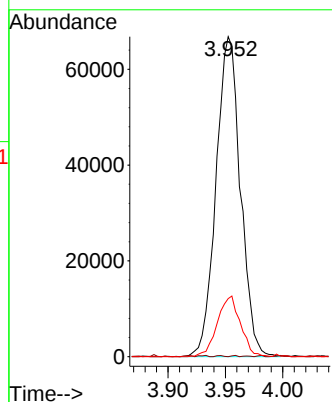
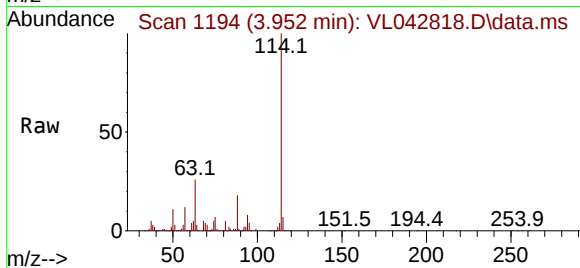
Tgt Ion: 63 Resp: 98800

Ion Ratio Lower Upper

63 100

41 0.1 68.2 102.4#

62 18.1 52.0 78.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.003 min

Lab File: VL042818.D

Acq: 04 Aug 2025 22:31

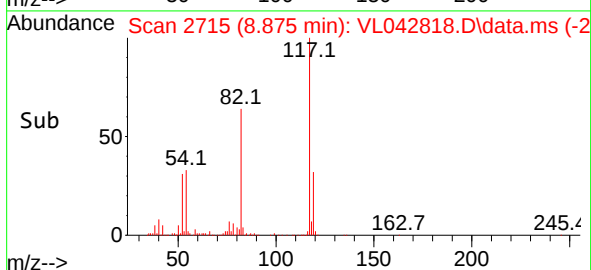
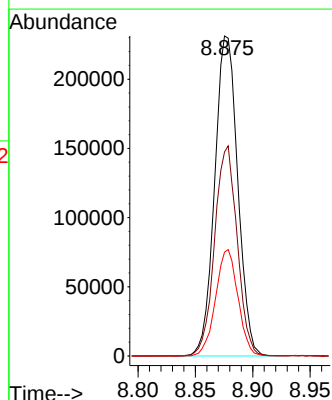
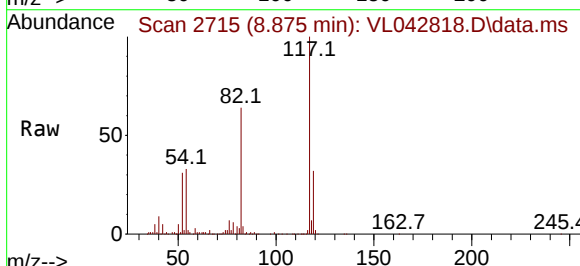
Tgt Ion: 117 Resp: 323135

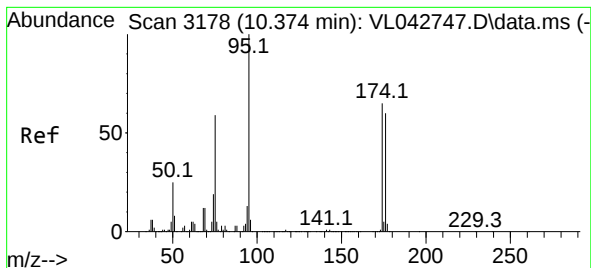
Ion Ratio Lower Upper

117 100

82 64.3 53.3 79.9

119 32.4 25.8 38.6

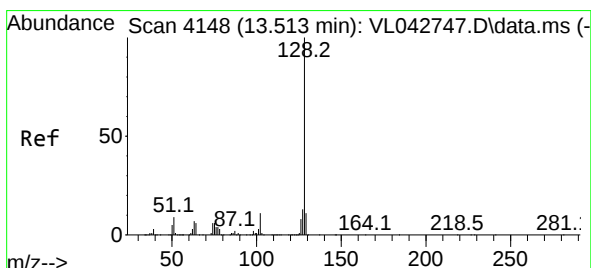
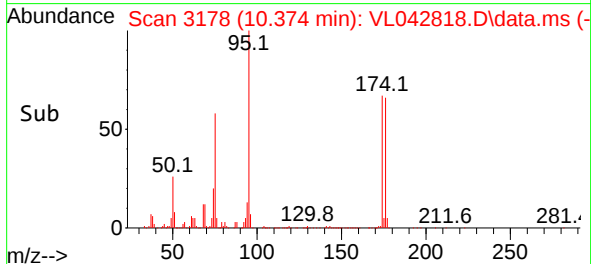
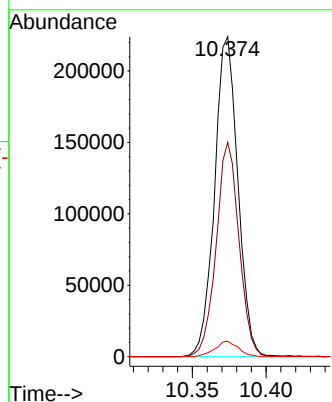
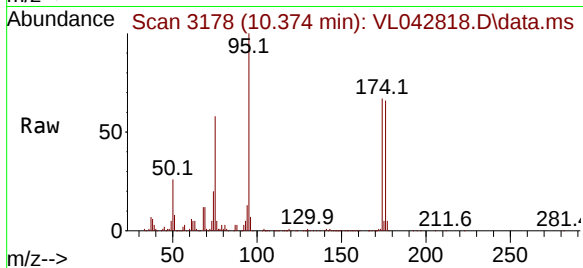




#68
1-Bromo-4-Fluorobenzene
Concen: 9.623 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.000 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

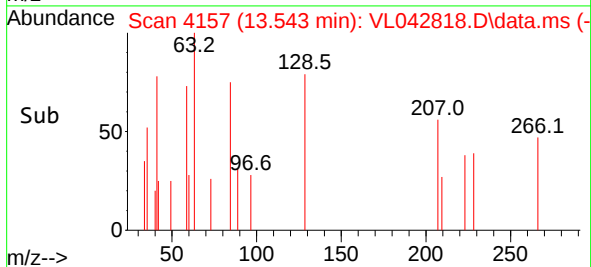
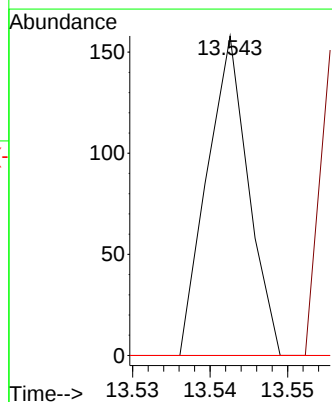
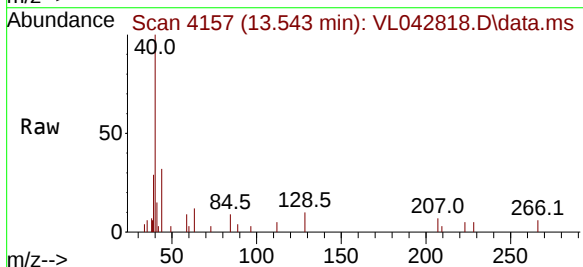
Instrument :
MSVOA_L
ClientSampleId :

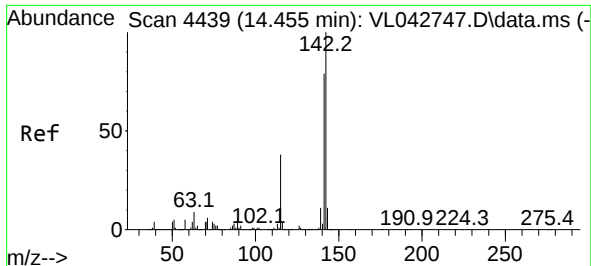
Tgt Ion: 95 Resp: 246263
Ion Ratio Lower Upper
95 100
174 66.0 53.8 80.6
175 4.9 4.0 6.0



#79
Naphthalene
Concen: 0.436 ppbv
RT: 13.543 min Scan# 4157
Delta R.T. 0.029 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

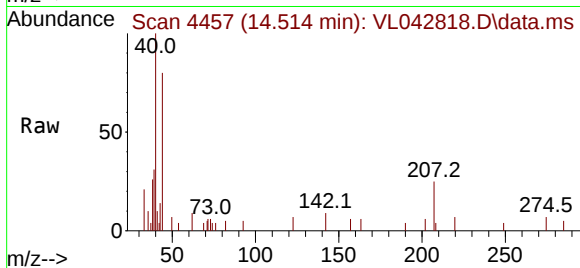
Tgt Ion: 128 Resp: 58
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.6 13.0#



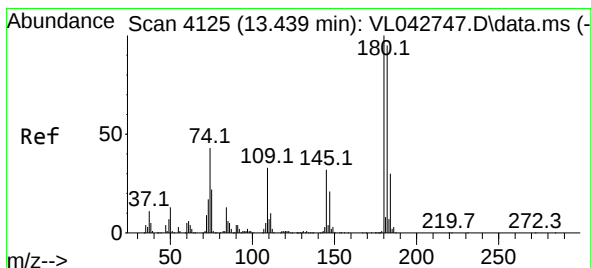
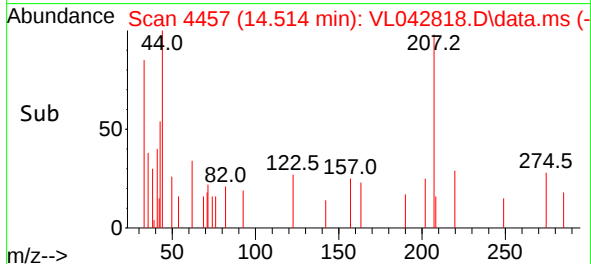
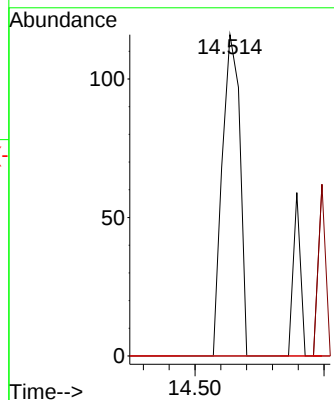


#80
Naphthalene, 2-methyl-
Concen: 1.131 ppbv
RT: 14.514 min Scan# 4439
Delta R.T. 0.058 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:142 Resp: 55
Ion Ratio Lower Upper
142 100
141 65.5 65.8 98.8#
115 0.0 31.2 46.8#



#81
1,2,4-Trichlorobenzene
Concen: 0.436 ppbv
RT: 13.374 min Scan# 4105
Delta R.T. -0.065 min
Lab File: VL042818.D
Acq: 04 Aug 2025 22:31

Tgt Ion:180 Resp: 41
Ion Ratio Lower Upper
180 100
182 0.0 76.2 114.2#
184 0.0 24.8 37.2#

