

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042744.D
 Acq On : 22 Jul 2025 23:50
 Operator : SY/MD
 Sample : Q2632-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 23 03:08:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jul 23 02:51:39 2025
 Response via : Initial Calibration

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

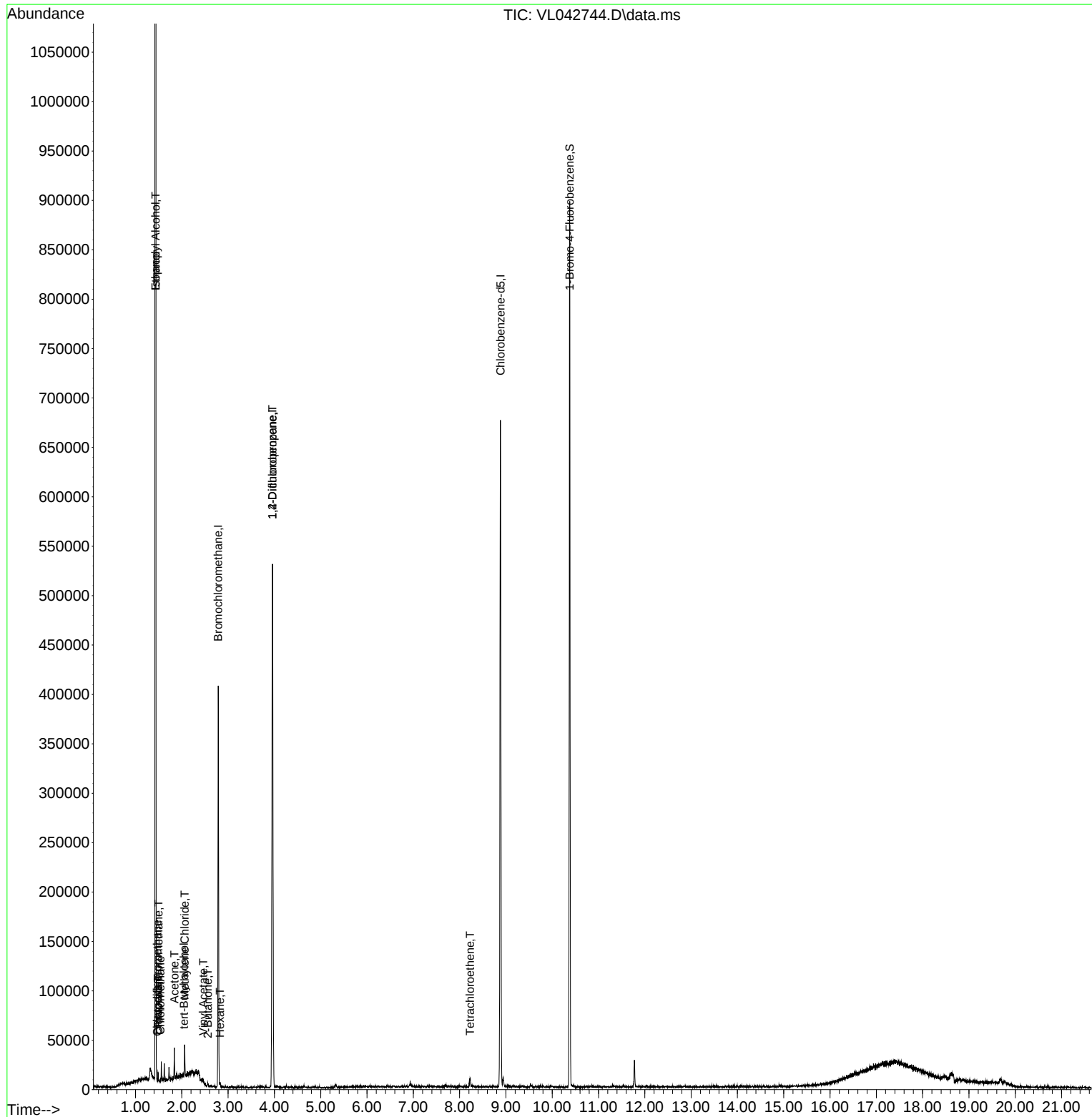
Internal Standards						
1) Bromochloromethane	2.787	49	107003	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	308379	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	271224	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	222133	10.133	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.300%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	671	0.040	ppbv	88
3) Chlorodifluoromethane	1.470	51	1133	0.060	ppbv #	62
4) Chloromethane	1.534	50	541	0.079	ppbv #	65
9) Propene	1.486	41	1065	0.159	ppbv #	48
13) Ethanol	1.434	45	178428	158.240	ppbv #	1
15) Acetone	1.839	43	11964	0.668	ppbv	94
17) tert-Butyl alcohol	2.049	59	646	0.038	ppbv #	93
19) Isopropyl Alcohol	1.434	45	178428	18.791	ppbv #	37
20) Methylene Chloride	2.062	84	4345	0.771	ppbv	95
23) Vinyl Acetate	2.463	43	917	0.045	ppbv #	8
26) Hexane	2.826	57	628	0.043	ppbv #	58
34) 2-Butanone	2.560	43	1078	0.051	ppbv #	53
39) 1,2-Dichloropropane	3.959	63	83173	7.797	ppbv #	19
52) Tetrachloroethene	8.228	164	626	0.054	ppbv #	82

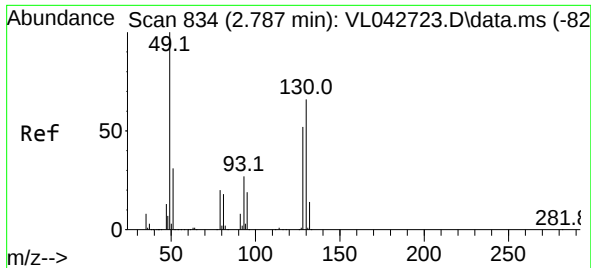
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 23 03:08:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Jul 23 02:51:39 2025
Response via : Initial Calibration

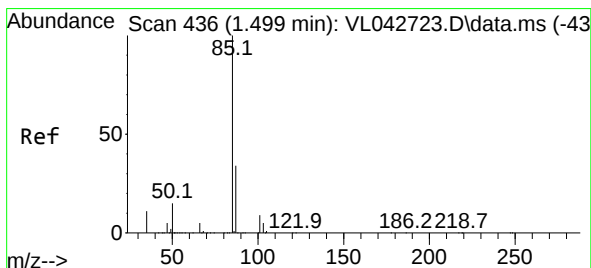
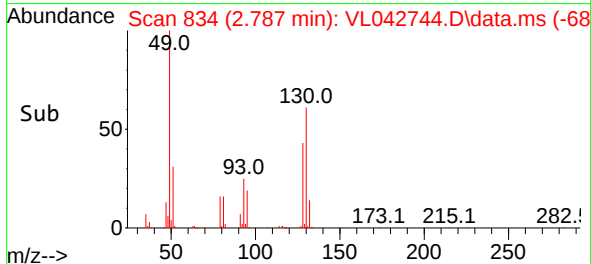
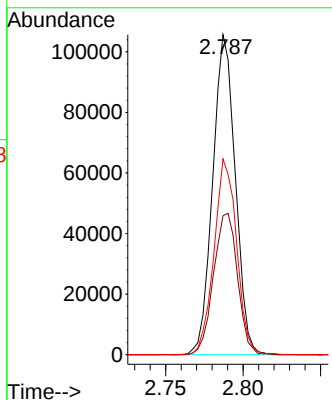
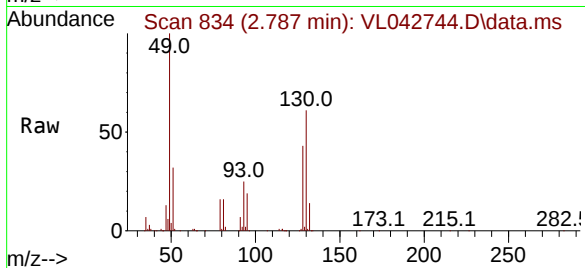




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VL042744.D
 Acq: 22 Jul 2025 23:50

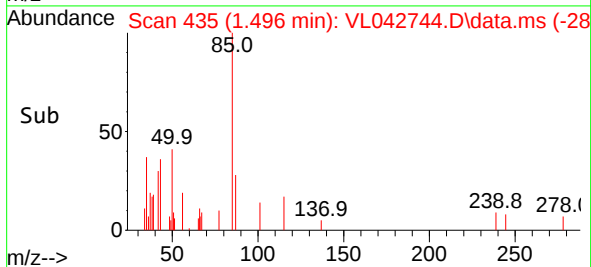
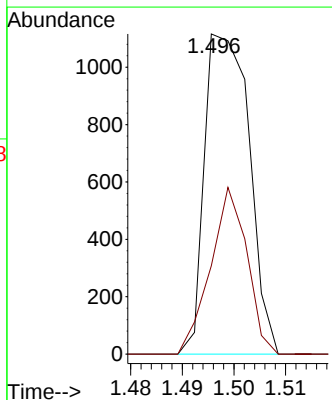
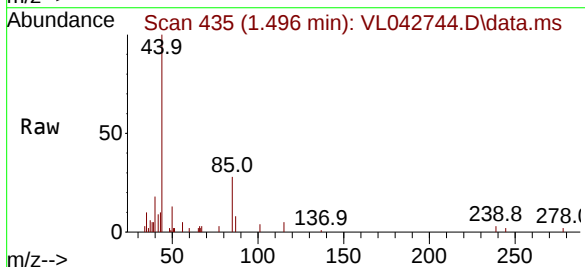
Instrument :
 MSVOA_L
 ClientSampleId :

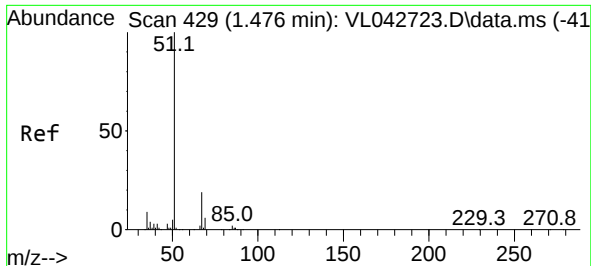
Tgt Ion: 49 Resp: 107003
 Ion Ratio Lower Upper
 49 100
 128 47.0 24.5 73.5
 130 61.3 31.7 95.1



#2
 Dichlorodifluoromethane
 Concen: 0.040 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042744.D
 Acq: 22 Jul 2025 23:50

Tgt Ion: 85 Resp: 671
 Ion Ratio Lower Upper
 85 100
 87 27.6 27.5 41.3

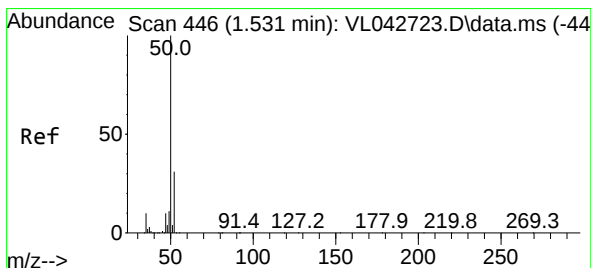
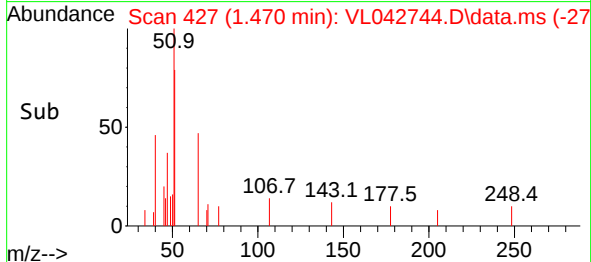
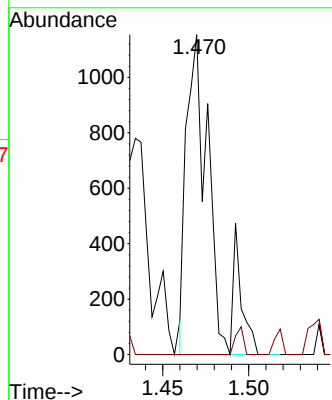
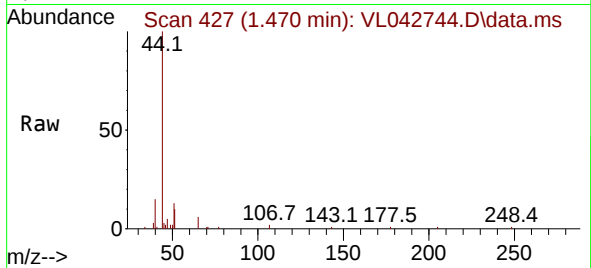




#3
Chlorodifluoromethane
Concen: 0.060 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL042744.D
Acq: 22 Jul 2025 23:50

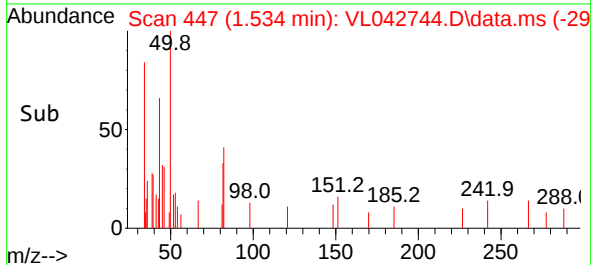
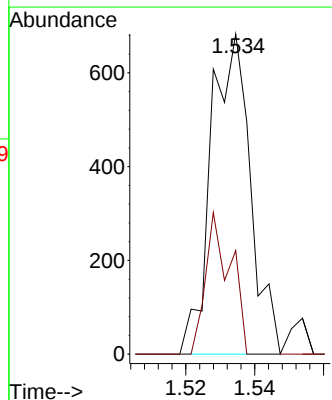
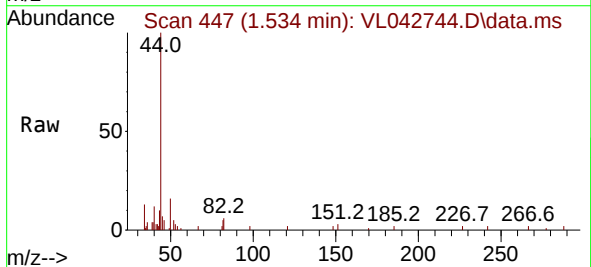
Instrument :
MSVOA_L
ClientSampleId :

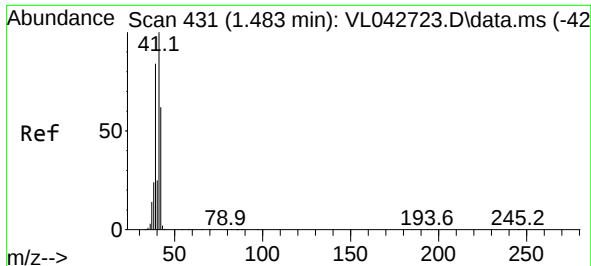
Tgt Ion: 51 Resp: 1133
Ion Ratio Lower Upper
51 100
67 2.6 16.0 24.0#



#4
Chloromethane
Concen: 0.079 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042744.D
Acq: 22 Jul 2025 23:50

Tgt Ion: 50 Resp: 541
Ion Ratio Lower Upper
50 100
52 50.2 24.9 37.3#





#9

Propene

Concen: 0.159 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042744.D

Acq: 22 Jul 2025 23:50

Instrument :

MSVOA_L

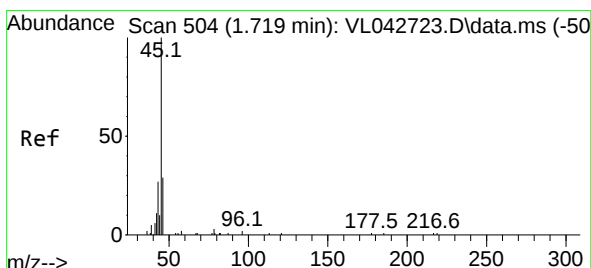
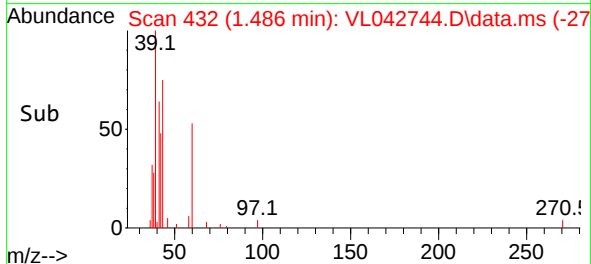
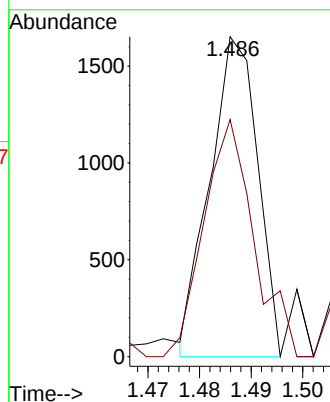
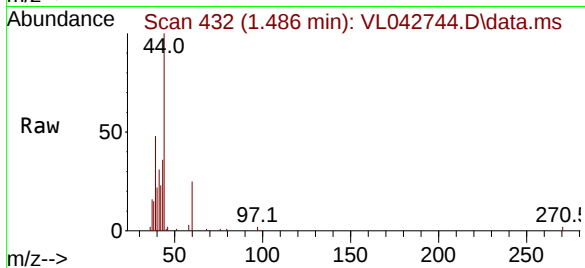
ClientSampleId :

Tgt Ion: 41 Resp: 1065

Ion Ratio Lower Upper

41 100

42 105.8 52.0 78.0#



#13

Ethanol

Concen: 158.240 ppbv

RT: 1.434 min Scan# 416

Delta R.T. -0.285 min

Lab File: VL042744.D

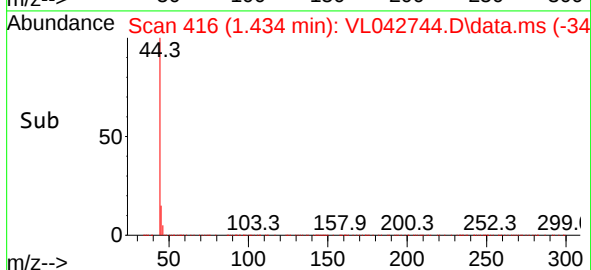
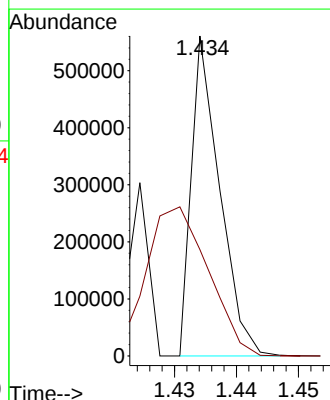
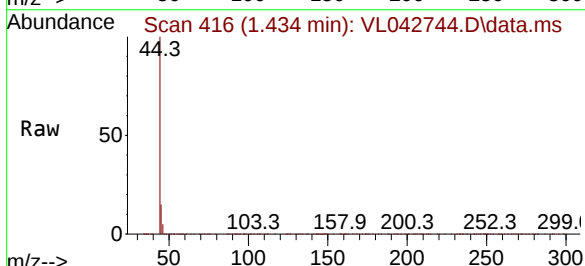
Acq: 22 Jul 2025 23:50

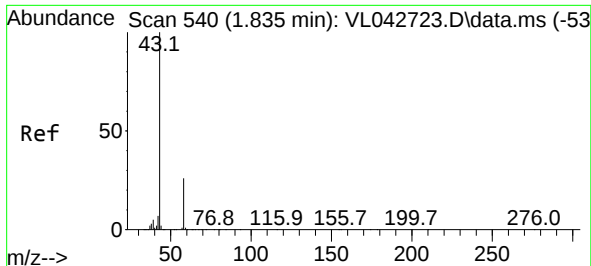
Tgt Ion: 45 Resp: 178428

Ion Ratio Lower Upper

45 100

46 102.4 16.3 65.1#





#15

Acetone

Concen: 0.668 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042744.D

Acq: 22 Jul 2025 23:50

Instrument :

MSVOA_L

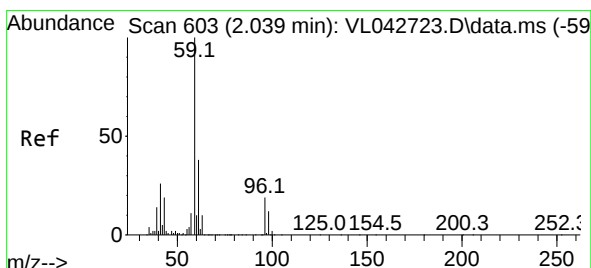
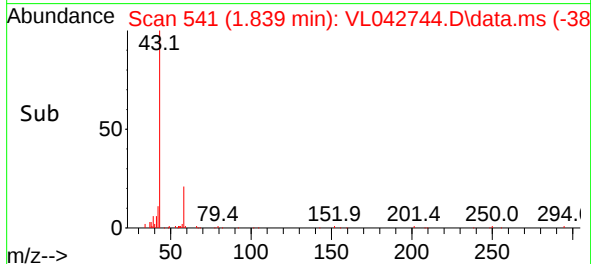
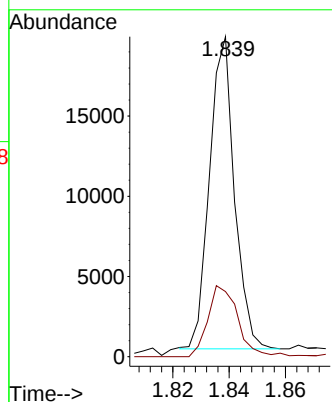
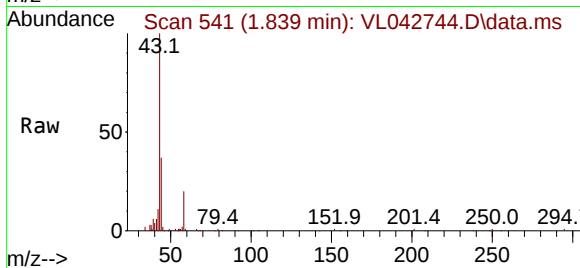
ClientSampleId :

Tgt Ion: 43 Resp: 11964

Ion Ratio Lower Upper

43 100

58 28.8 20.5 30.7



#17

tert-Butyl alcohol

Concen: 0.038 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.010 min

Lab File: VL042744.D

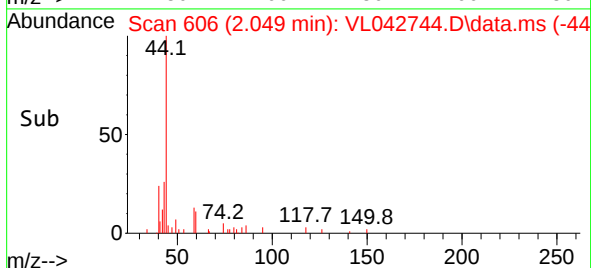
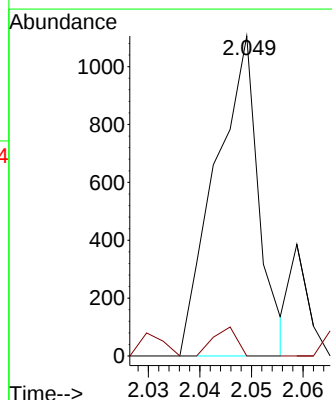
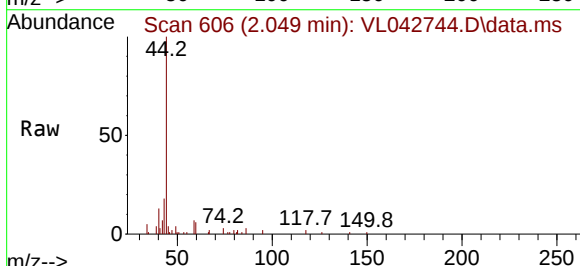
Acq: 22 Jul 2025 23:50

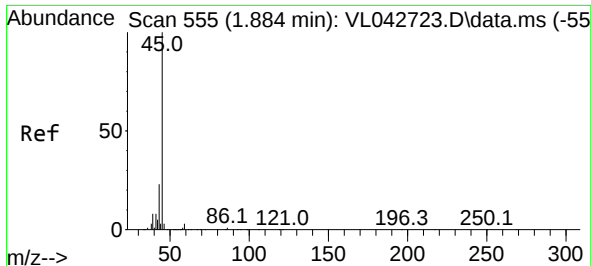
Tgt Ion: 59 Resp: 646

Ion Ratio Lower Upper

59 100

57 8.8 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 18.791 ppbv

RT: 1.434 min Scan# 416

Delta R.T. -0.450 min

Lab File: VL042744.D

Acq: 22 Jul 2025 23:50

Instrument :

MSVOA_L

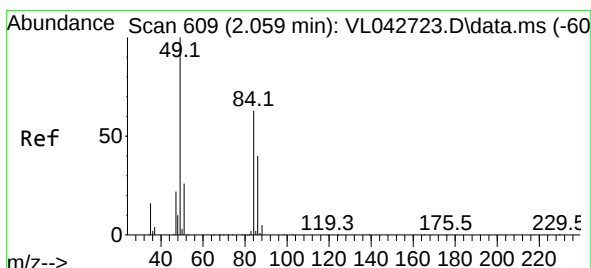
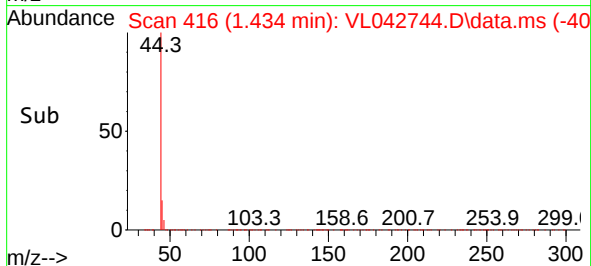
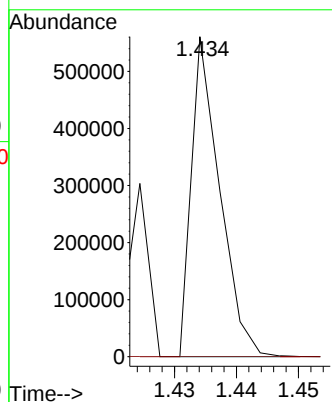
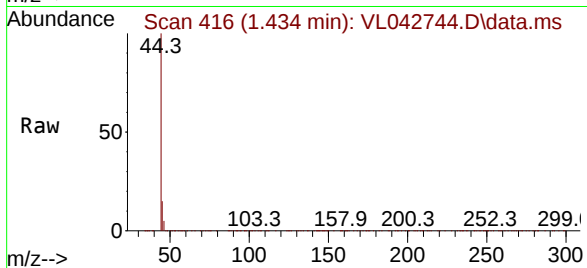
ClientSampleId :

Tgt Ion: 45 Resp: 178428

Ion Ratio Lower Upper

45 100

58 0.2 30.6 46.0#



#20

Methylene Chloride

Concen: 0.771 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042744.D

Acq: 22 Jul 2025 23:50

Tgt Ion: 84 Resp: 4345

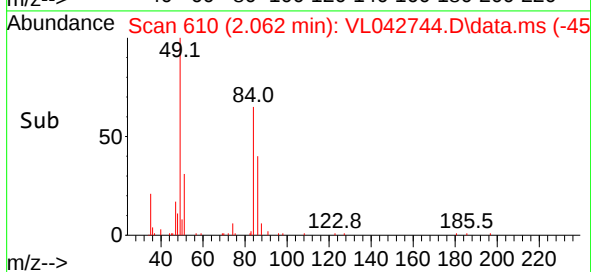
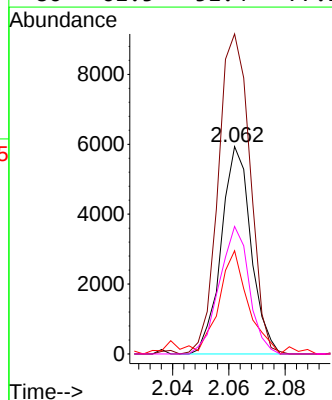
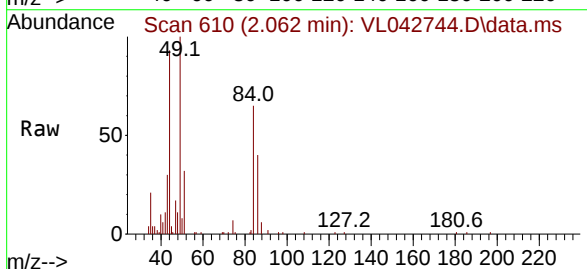
Ion Ratio Lower Upper

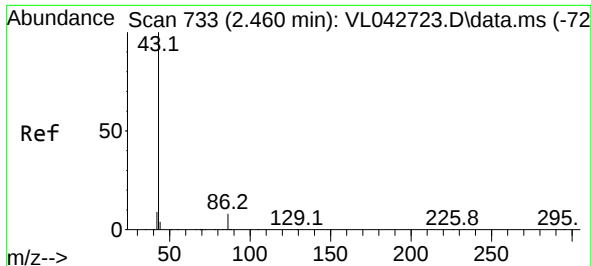
84 100

49 154.3 128.2 192.4

51 49.8 34.5 51.7

86 61.5 51.4 77.2

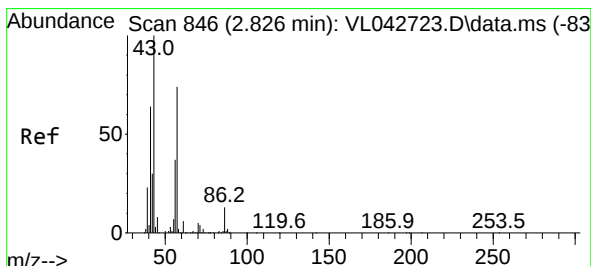
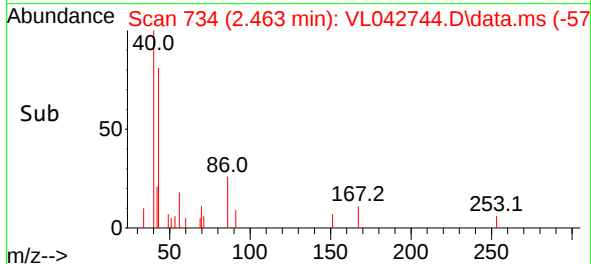
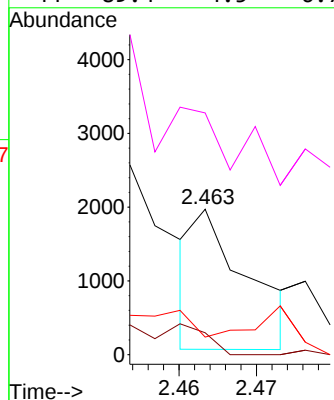
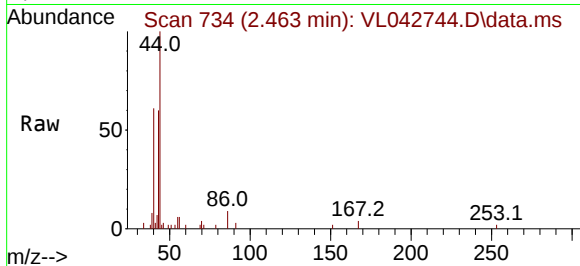




#23
 Vinyl Acetate
 Concen: 0.045 ppbv
 RT: 2.463 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL042744.D
 Acq: 22 Jul 2025 23:50

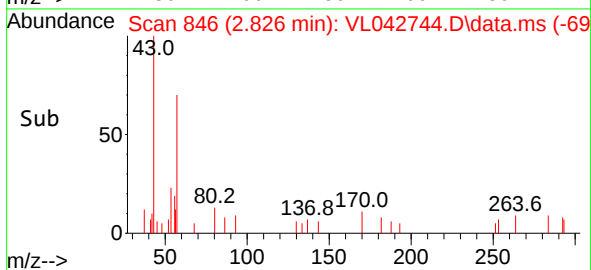
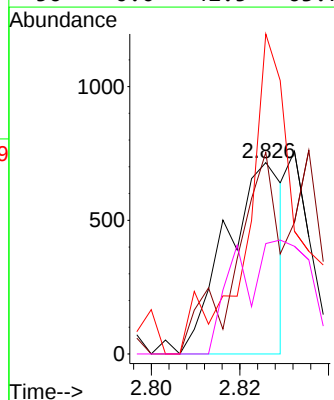
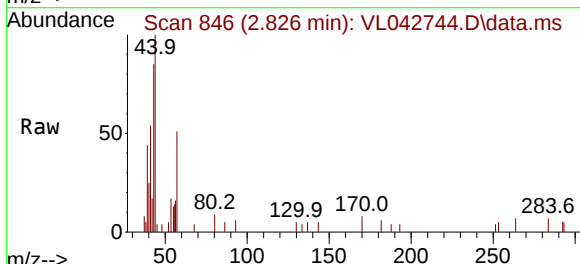
Instrument :
 MSVOA_L
 ClientSampleId :

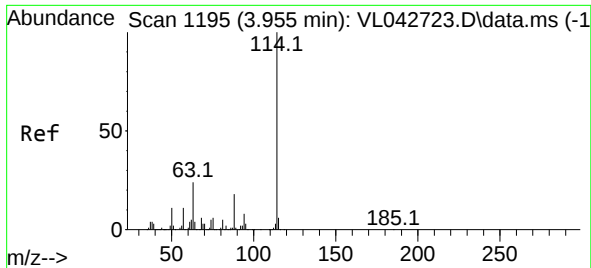
Tgt Ion: 43	Resp: 917
Ion Ratio	Lower Upper
43 100	
86 27.1	5.7 8.5#
42 0.0	7.9 11.9#
44 89.4	4.5 6.7#



#26
 Hexane
 Concen: 0.043 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. 0.000 min
 Lab File: VL042744.D
 Acq: 22 Jul 2025 23:50

Tgt Ion: 57	Resp: 628
Ion Ratio	Lower Upper
57 100	
41 0.0	77.3 115.9#
43 245.2	182.3 273.5
56 0.0	42.5 63.7#

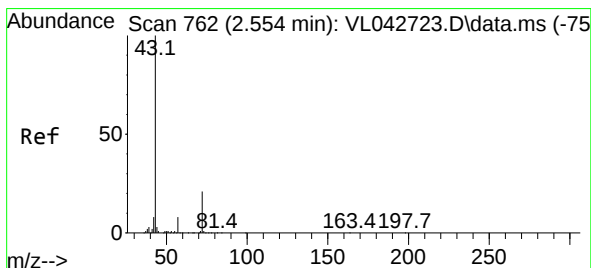
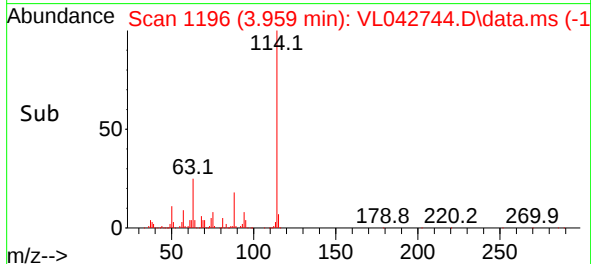
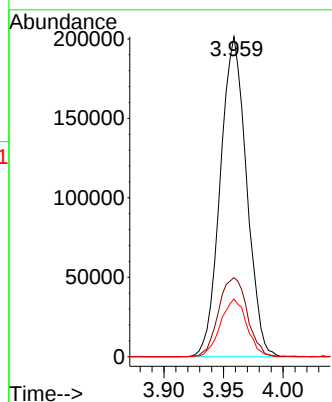
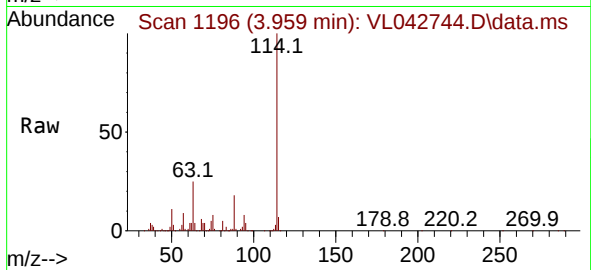




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.003 min
Lab File: VL042744.D
Acq: 22 Jul 2025 23:50

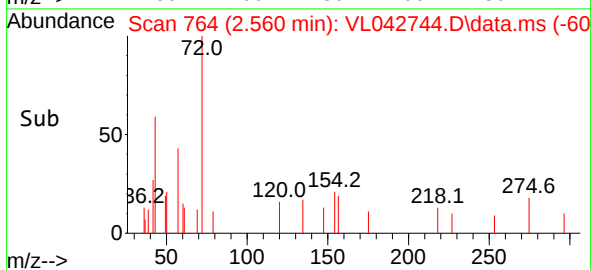
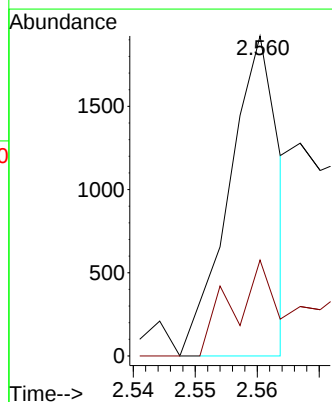
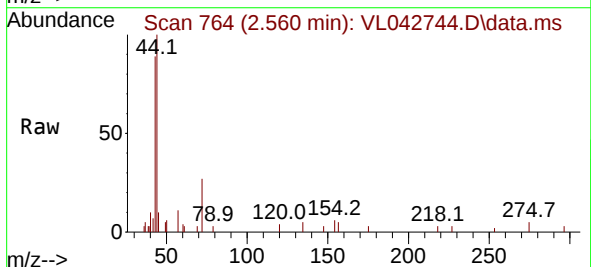
Instrument :
MSVOA_L
ClientSampleId :

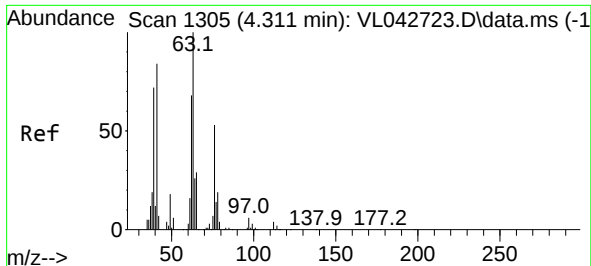
Tgt Ion:114 Resp: 308379
Ion Ratio Lower Upper
114 100
63 27.0 20.4 30.6
88 18.2 14.5 21.7



#34
2-Butanone
Concen: 0.051 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.007 min
Lab File: VL042744.D
Acq: 22 Jul 2025 23:50

Tgt Ion: 43 Resp: 1078
Ion Ratio Lower Upper
43 100
72 43.5 17.0 25.6#





#39

1,2-Dichloropropane

Concen: 7.797 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042744.D

Acq: 22 Jul 2025 23:50

Instrument :

MSVOA_L

ClientSampleId :

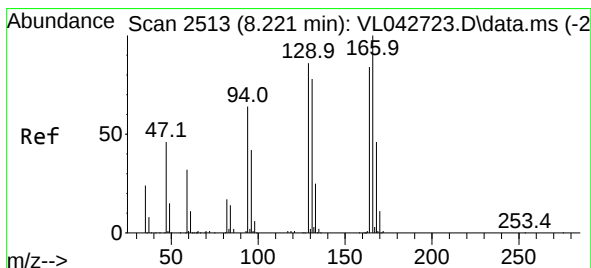
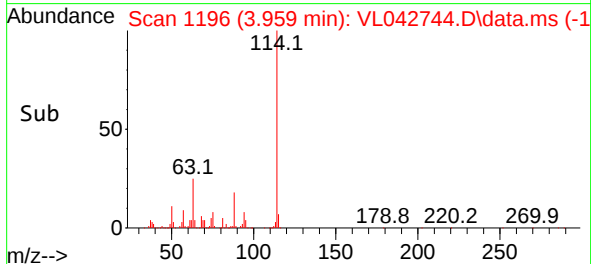
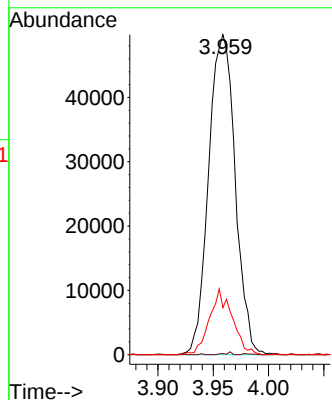
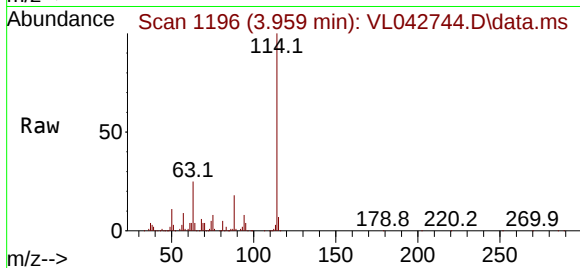
Tgt Ion: 63 Resp: 83173

Ion Ratio Lower Upper

63 100

41 0.2 67.7 101.5#

62 14.7 54.1 81.1#



#52

Tetrachloroethene

Concen: 0.054 ppbv

RT: 8.228 min Scan# 2515

Delta R.T. 0.007 min

Lab File: VL042744.D

Acq: 22 Jul 2025 23:50

Tgt Ion:164 Resp: 626

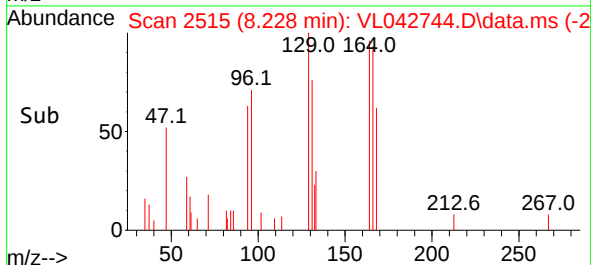
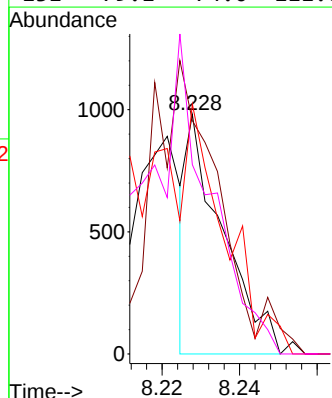
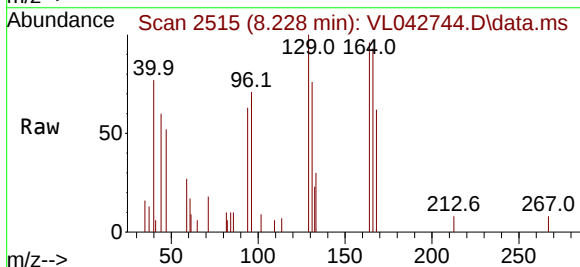
Ion Ratio Lower Upper

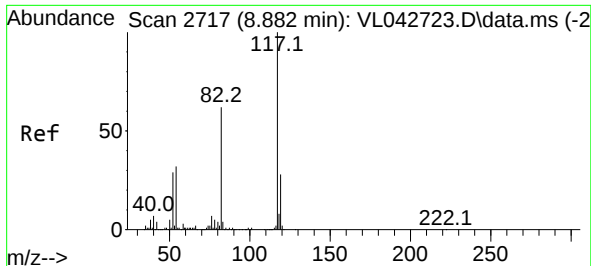
164 100

166 86.7 95.1 142.7#

129 92.8 81.9 122.9

131 79.1 74.0 111.0

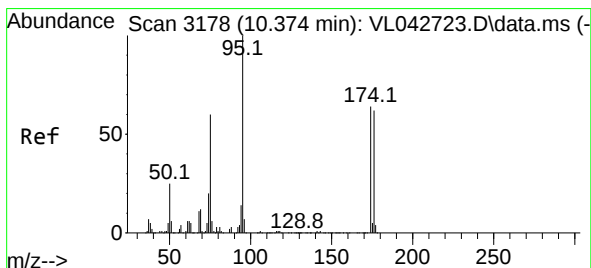
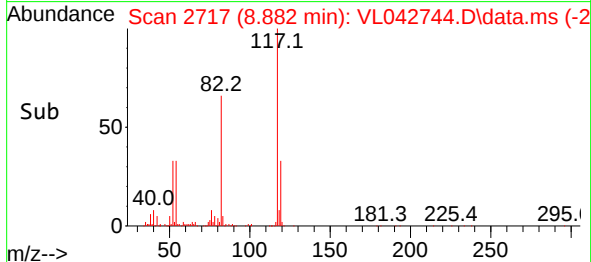
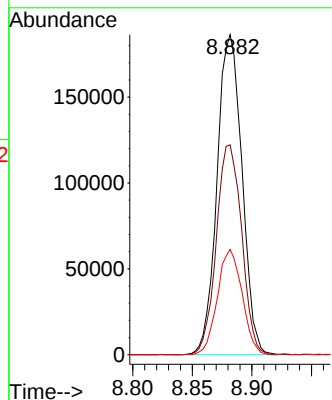
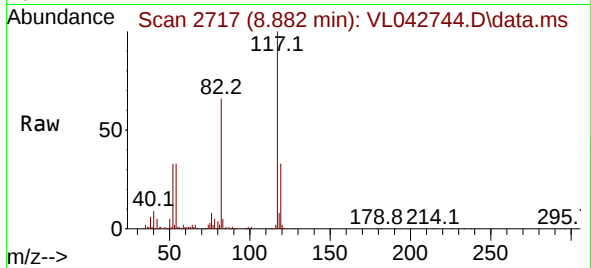




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042744.D
Acq: 22 Jul 2025 23:50

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 271224
Ion Ratio Lower Upper
117 100
82 66.6 54.6 81.8
119 32.7 25.3 37.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.133 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042744.D
Acq: 22 Jul 2025 23:50

Tgt Ion: 95 Resp: 222133
Ion Ratio Lower Upper
95 100
174 64.0 51.4 77.2
175 5.0 4.2 6.4

