

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042106.D
 Acq On : 05 Mar 2025 16:28
 Operator : SY/MD
 Sample : Q1483-05DL2 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Quant Time: Mar 06 01:09:37 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	2.807	49	159641	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.991	114	358572	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.914	117	298512	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	220196	9.588	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%

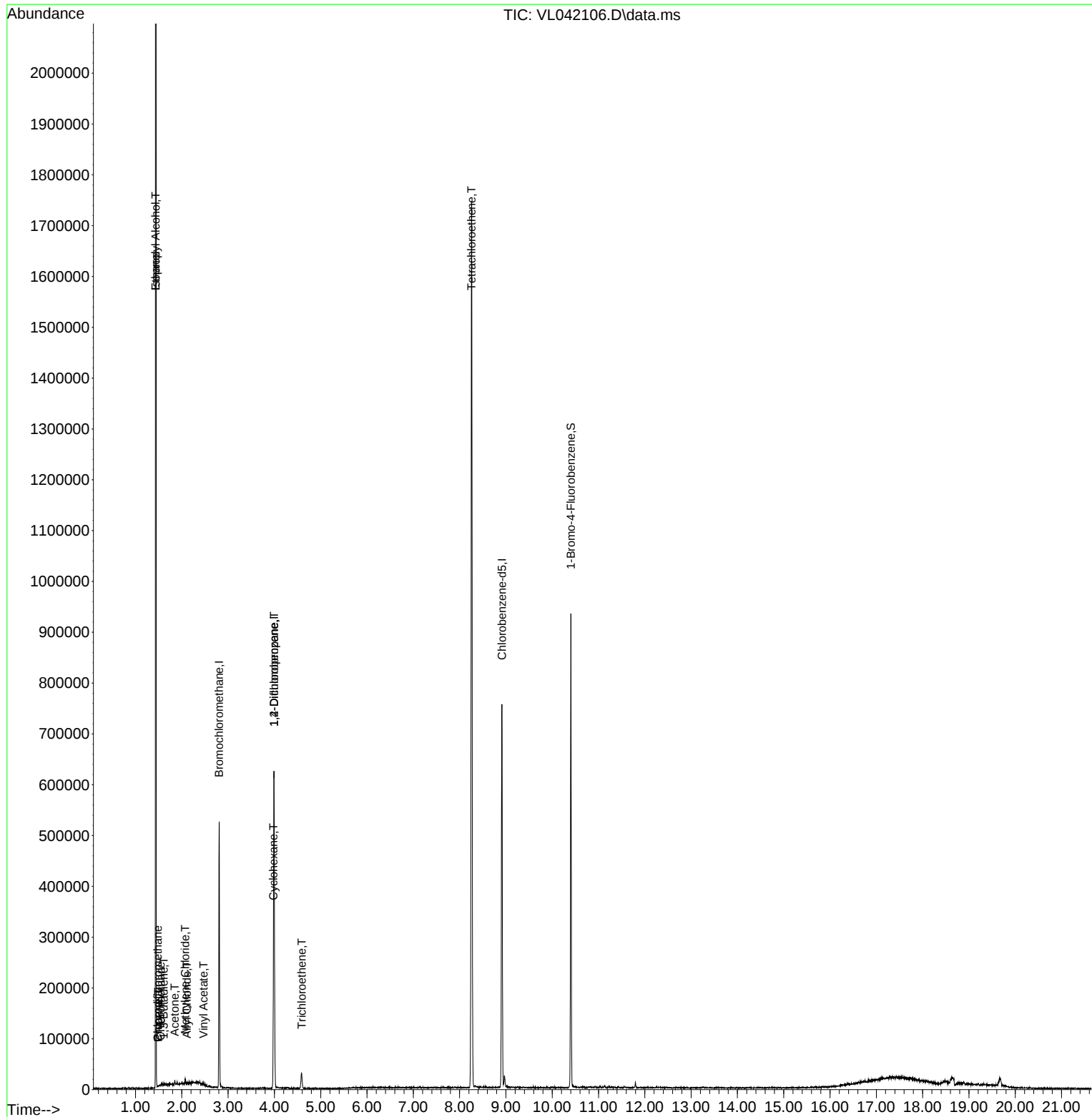
Target Compounds						Qvalue
3) Chlorodifluoromethane	1.483	51	1174	0.051	ppbv	98
4) Chloromethane	1.544	50	246	0.040	ppbv #	1
9) Propene	1.493	41	368	0.039	ppbv #	15
13) Ethanol	1.438	45	163400	272.320	ppbv	91
15) Acetone	1.849	43	3733	0.265	ppbv #	87
16) 1,3-Butadiene	1.609	39	383	0.058	ppbv #	80
19) Isopropyl Alcohol	1.438	45	163400	20.177	ppbv #	32
20) Methylene Chloride	2.072	84	1589	0.298	ppbv #	91
21) Allyl Chloride	2.111	41	357	0.035	ppbv #	31
23) Vinyl Acetate	2.473	43	323	0.033	ppbv #	82
30) Cyclohexane	3.978	84	940	0.051	ppbv #	1
38) Trichloroethene	4.590	130	7441	0.485	ppbv #	85
39) 1,2-Dichloropropane	3.991	63	94684	6.646	ppbv #	22
52) Tetrachloroethene	8.257	164	311077	24.208	ppbv	98

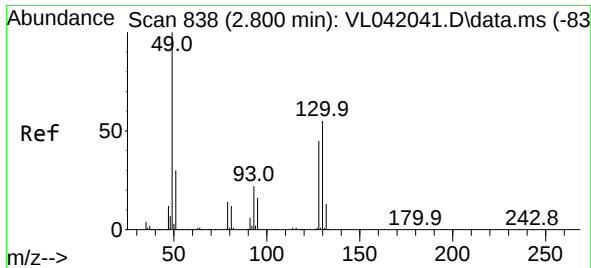
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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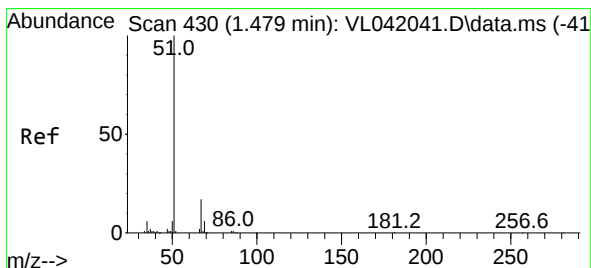
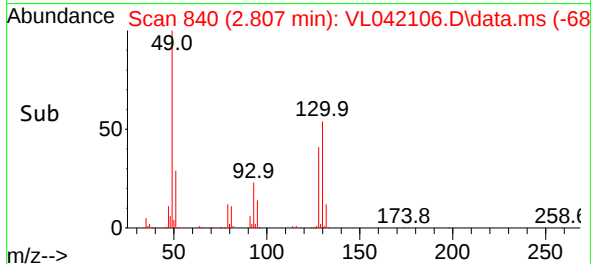
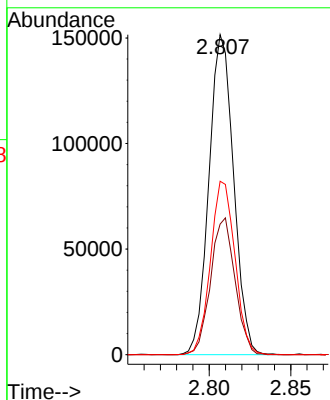
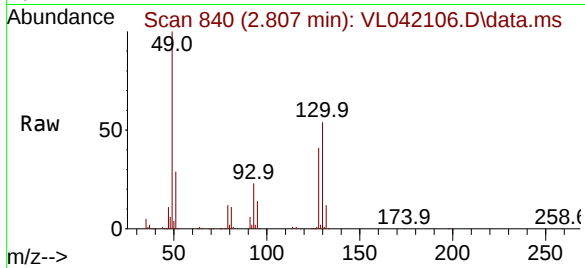




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.807 min Scan# 841
Delta R.T. 0.007 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

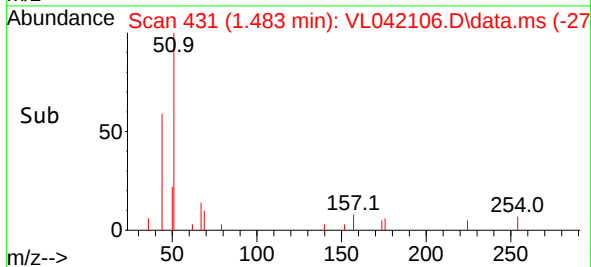
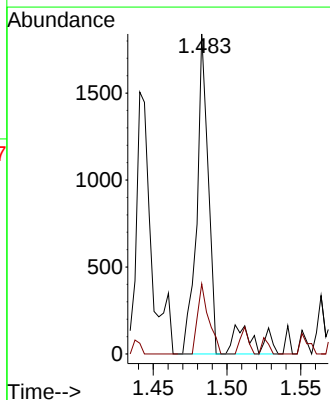
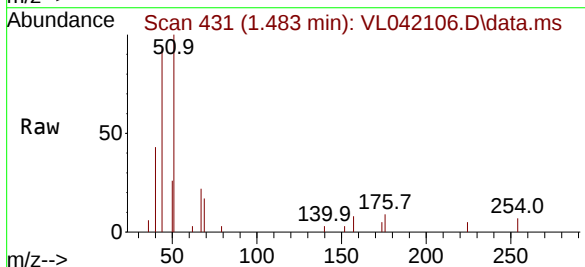
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

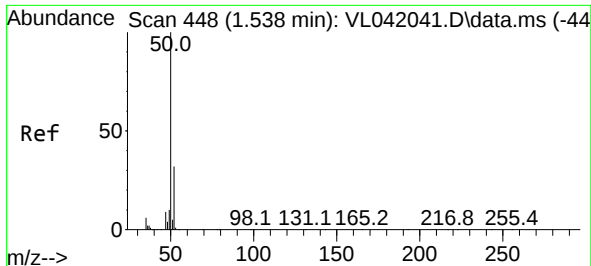
Tgt Ion: 49 Resp: 159641
Ion Ratio Lower Upper
49 100
128 42.3 21.6 64.8
130 53.7 27.8 83.4



#3
Chlorodifluoromethane
Concen: 0.051 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

Tgt Ion: 51 Resp: 1174
Ion Ratio Lower Upper
51 100
67 18.1 13.7 20.5

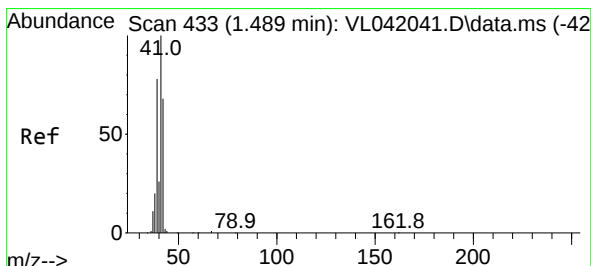
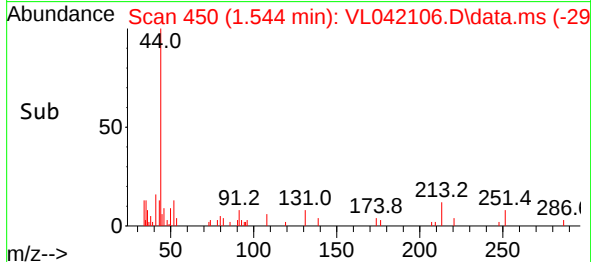
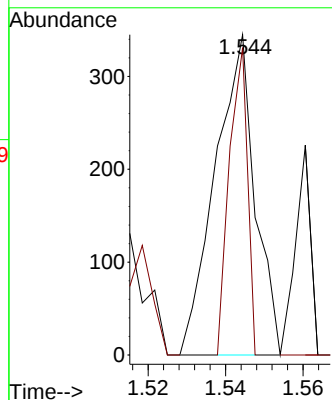
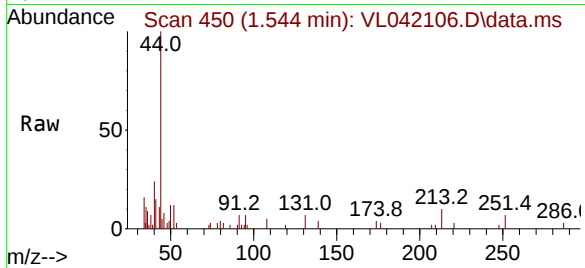




#4
Chloromethane
Concen: 0.040 ppbv
RT: 1.544 min Scan# 414
Delta R.T. 0.007 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

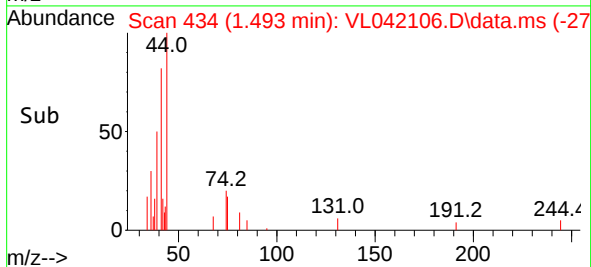
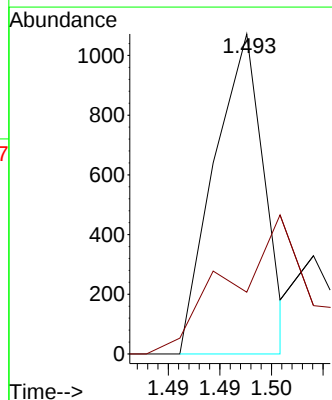
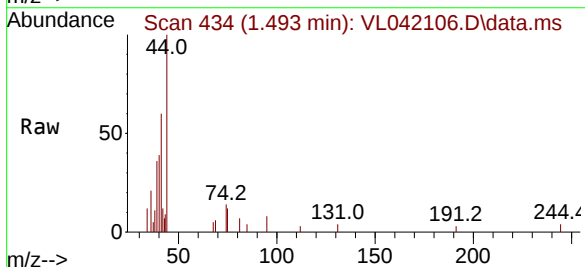
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

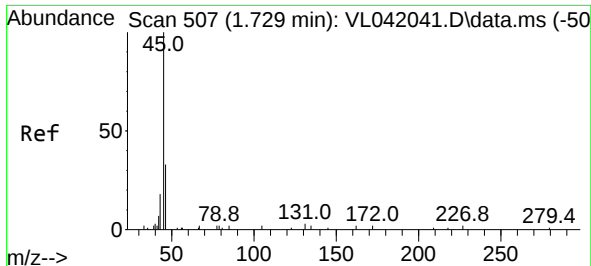
Tgt Ion: 50 Resp: 246
Ion Ratio Lower Upper
50 100
52 95.9 25.4 38.0#



#9
Propene
Concen: 0.039 ppbv
RT: 1.493 min Scan# 434
Delta R.T. 0.003 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

Tgt Ion: 41 Resp: 368
Ion Ratio Lower Upper
41 100
42 0.0 55.8 83.6#

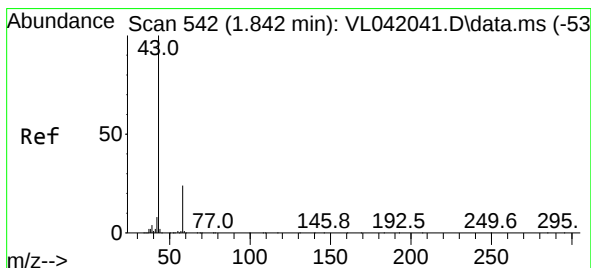
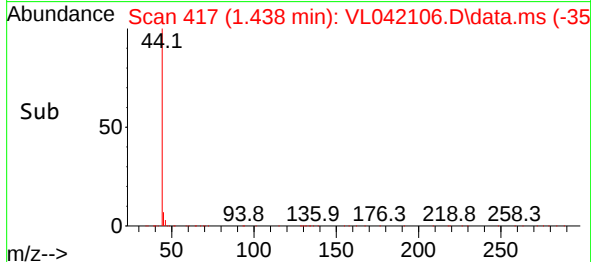
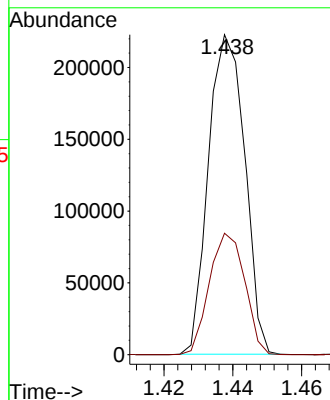
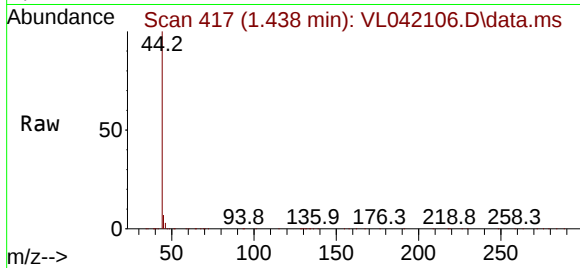




#13
Ethanol
Concen: 272.320 ppbv
RT: 1.438 min Scan# 417
Delta R.T. -0.291 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

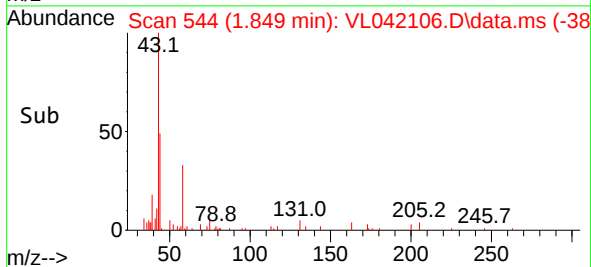
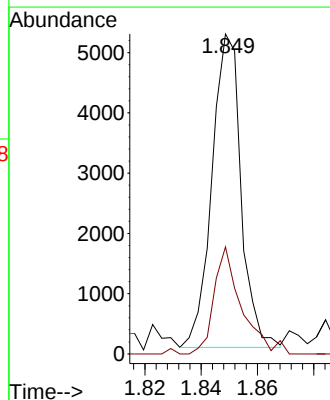
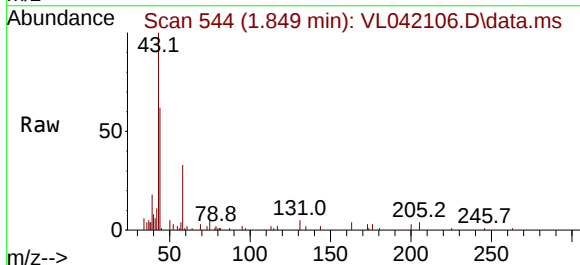
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

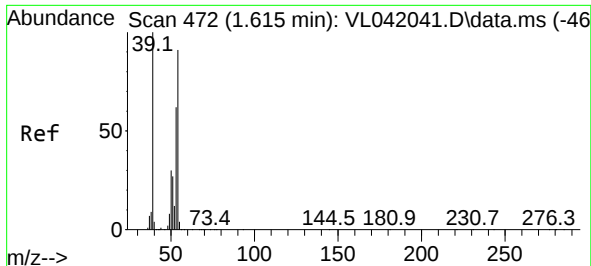
Tgt Ion: 45 Resp: 163400
Ion Ratio Lower Upper
45 100
46 37.1 17.1 68.3



#15
Acetone
Concen: 0.265 ppbv
RT: 1.849 min Scan# 544
Delta R.T. 0.007 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

Tgt Ion: 43 Resp: 3733
Ion Ratio Lower Upper
43 100
58 32.7 20.7 31.1#





#16

1,3-Butadiene

Concen: 0.058 ppbv

RT: 1.609 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

Instrument :

MSVOA_L

ClientSampleId :

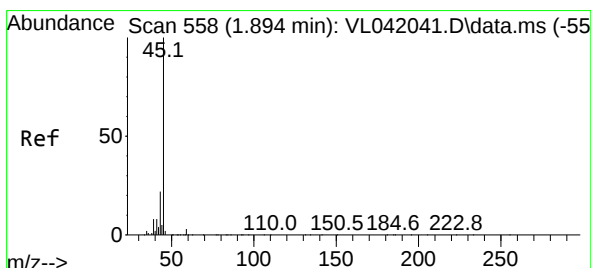
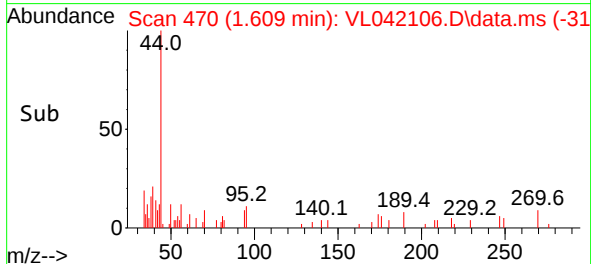
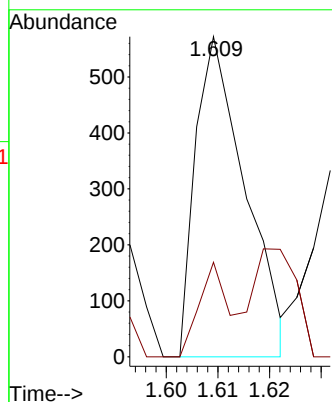
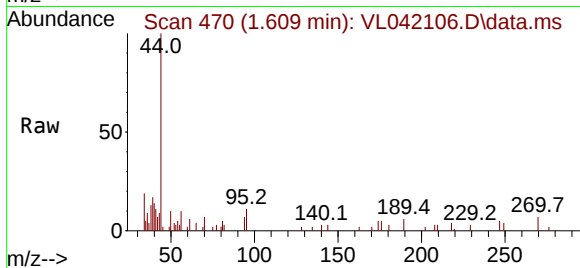
SV3DL

Tgt Ion: 39 Resp: 383

Ion Ratio Lower Upper

39 100

54 57.7 59.6 89.4#



#19

Isopropyl Alcohol

Concen: 20.177 ppbv

RT: 1.438 min Scan# 417

Delta R.T. -0.456 min

Lab File: VL042106.D

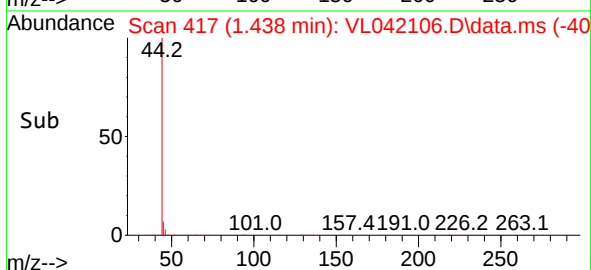
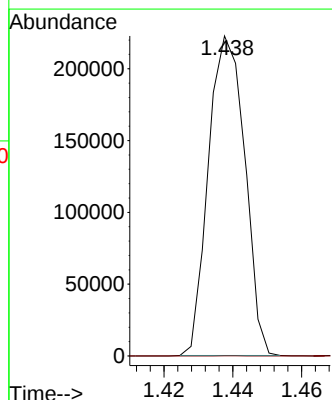
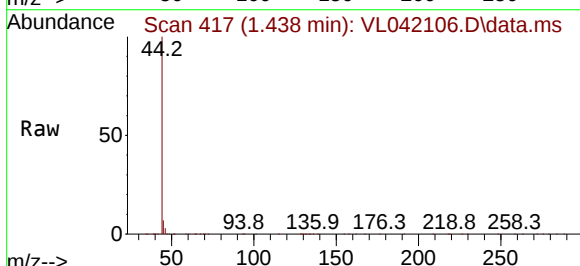
Acq: 05 Mar 2025 16:28

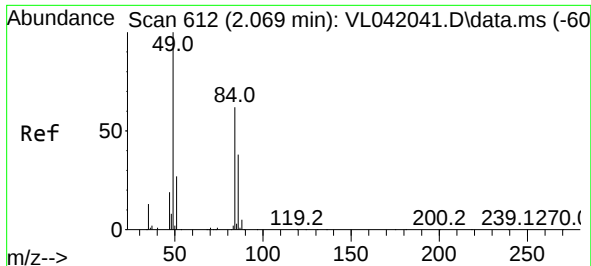
Tgt Ion: 45 Resp: 163400

Ion Ratio Lower Upper

45 100

58 0.0 35.3 52.9#





#20

Methylene Chloride

Concen: 0.298 ppbv

RT: 2.072 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion: 84 Resp: 1589

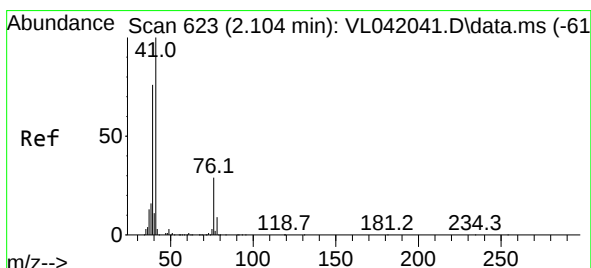
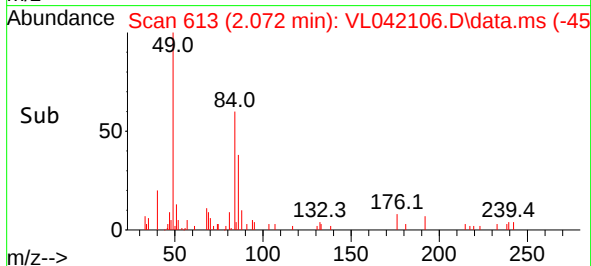
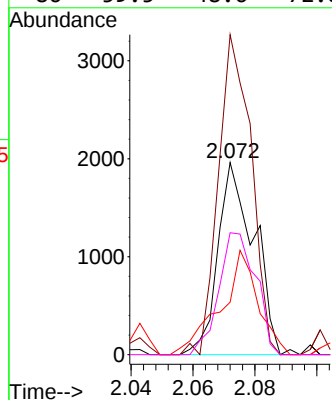
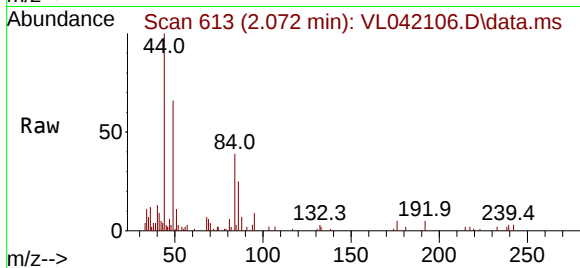
Ion Ratio Lower Upper

84 100

49 156.2 130.0 195.0

51 22.5 37.4 56.0#

86 59.5 48.6 72.8



#21

Allyl Chloride

Concen: 0.035 ppbv

RT: 2.111 min Scan# 625

Delta R.T. 0.007 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

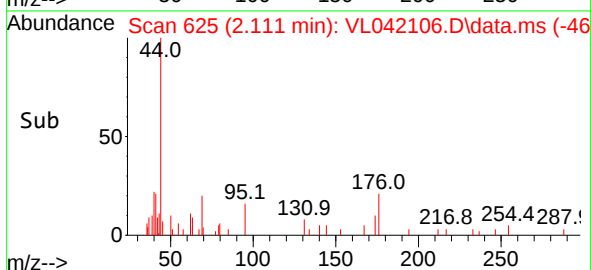
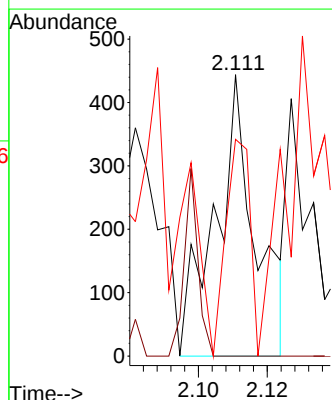
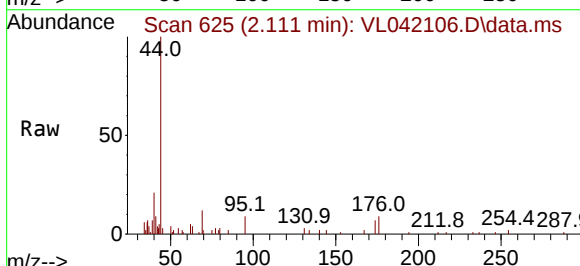
Tgt Ion: 41 Resp: 357

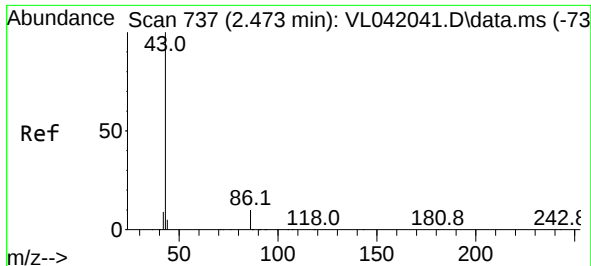
Ion Ratio Lower Upper

41 100

76 23.0 23.8 35.6#

39 0.0 63.8 95.6#





#23

Vinyl Acetate

Concen: 0.033 ppbv

RT: 2.473 min Scan# 71

Delta R.T. 0.000 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion: 43 Resp: 323

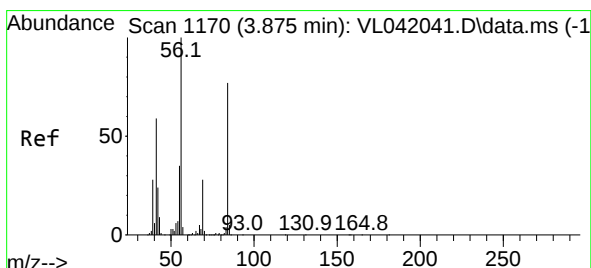
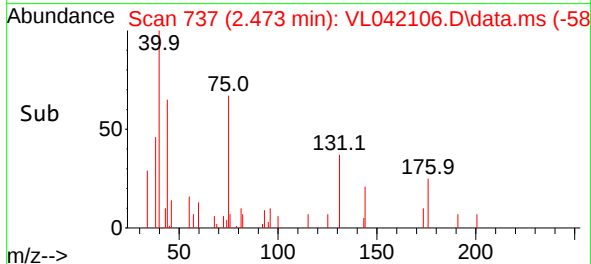
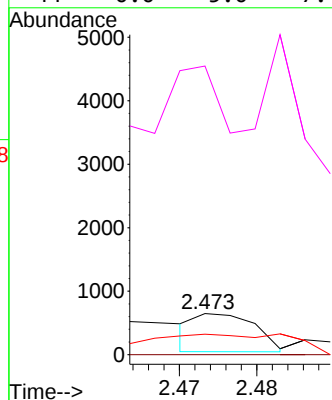
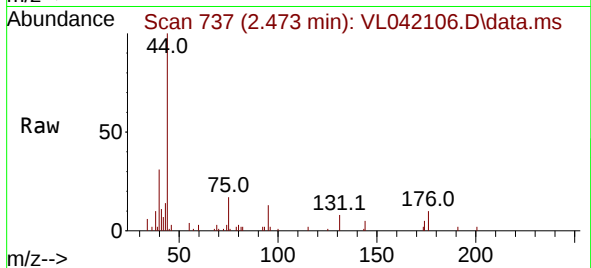
Ion Ratio Lower Upper

43 100

86 0.0 7.0 10.4#

42 4.7 7.6 11.4#

44 0.0 5.0 7.4#



#30

Cyclohexane

Concen: 0.051 ppbv

RT: 3.978 min Scan# 1202

Delta R.T. 0.104 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

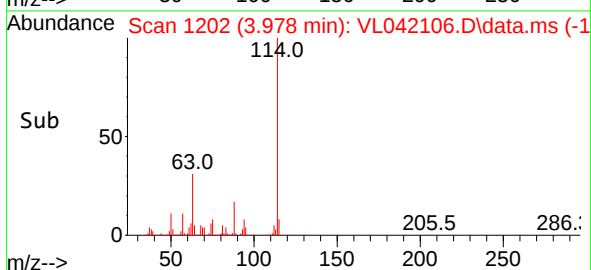
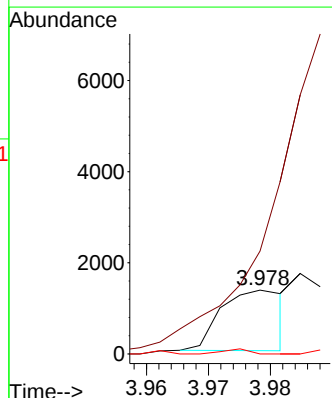
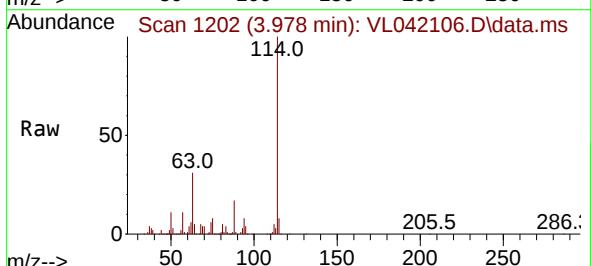
Tgt Ion: 84 Resp: 940

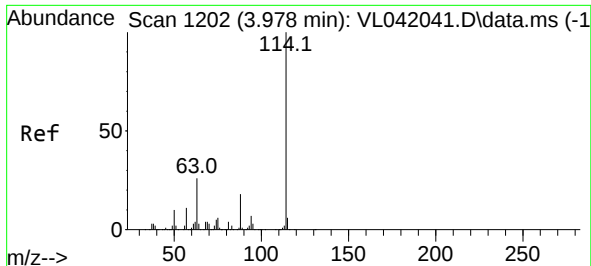
Ion Ratio Lower Upper

84 100

56 0.0 101.5 152.3#

41 1.5 62.6 93.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.991 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

Instrument :

MSVOA_L

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SV3DL

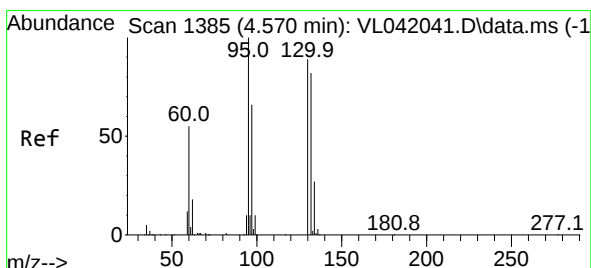
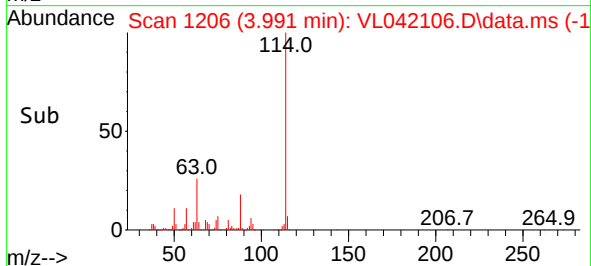
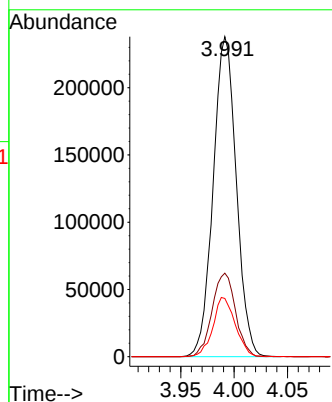
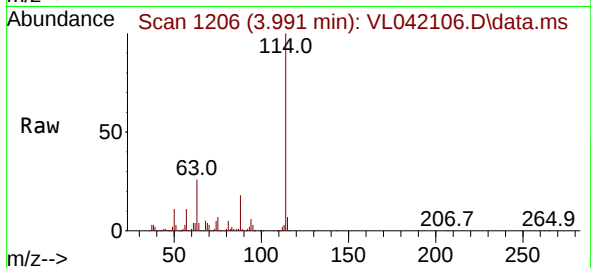
Tgt Ion:114 Resp: 358572

Ion Ratio Lower Upper

114 100

63 26.5 20.1 30.1

88 17.9 14.3 21.5



#38

Trichloroethene

Concen: 0.485 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.020 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

Tgt Ion:130 Resp: 7441

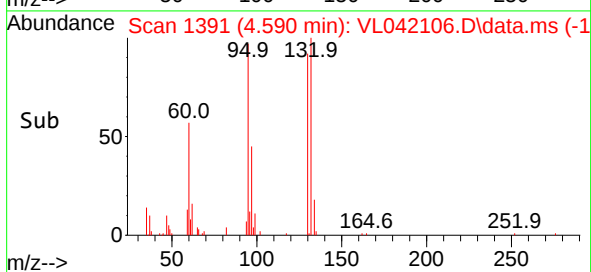
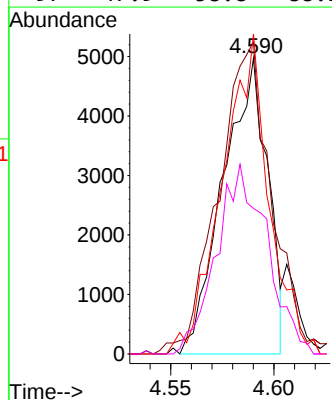
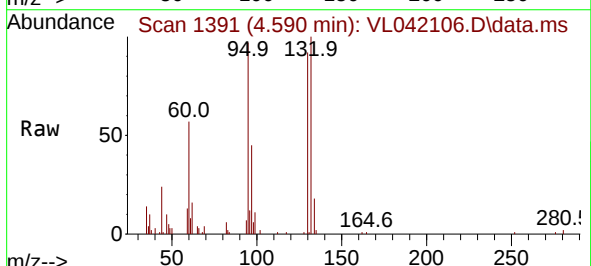
Ion Ratio Lower Upper

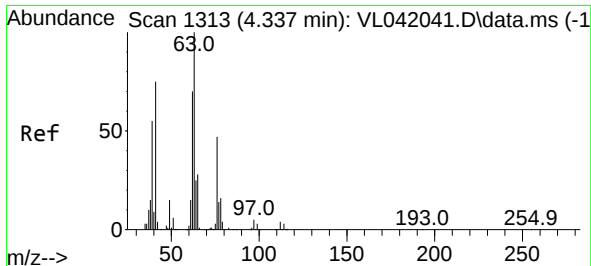
130 100

95 101.9 89.5 134.3

132 102.0 73.8 110.6

97 47.9 58.8 88.2#





#39

1,2-Dichloropropane

Concen: 6.646 ppbv

RT: 3.991 min Scan# 11

Delta R.T. -0.346 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

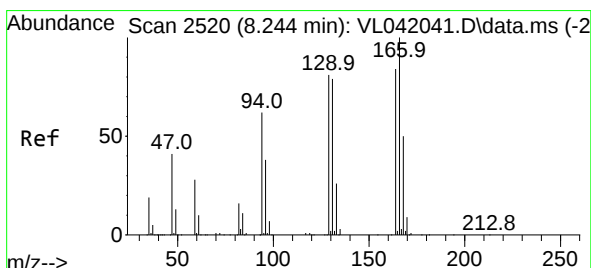
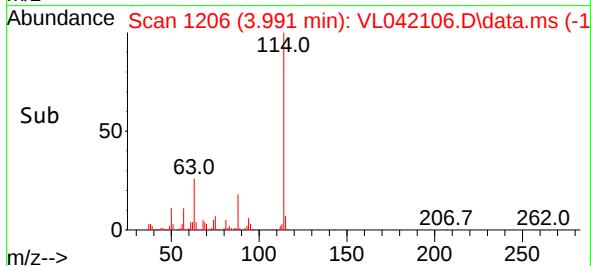
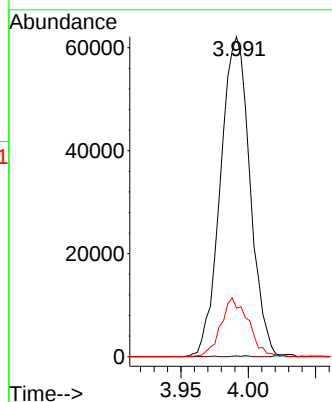
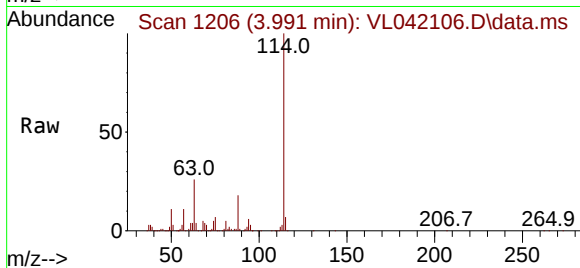
Tgt Ion: 63 Resp: 94684

Ion Ratio Lower Upper

63 100

41 0.2 60.1 90.1#

62 15.2 55.8 83.8#



#52

Tetrachloroethene

Concen: 24.208 ppbv

RT: 8.257 min Scan# 2524

Delta R.T. 0.013 min

Lab File: VL042106.D

Acq: 05 Mar 2025 16:28

Tgt Ion:164 Resp: 311077

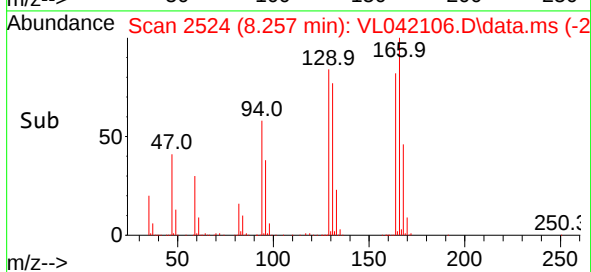
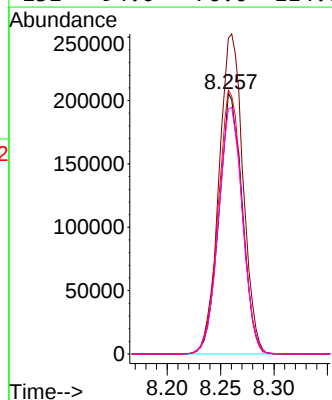
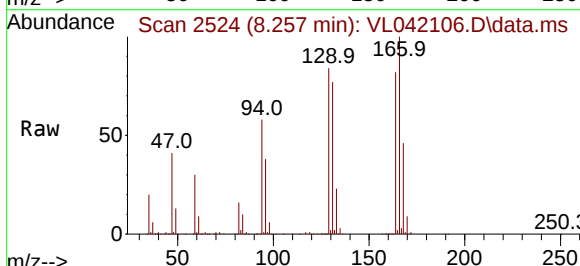
Ion Ratio Lower Upper

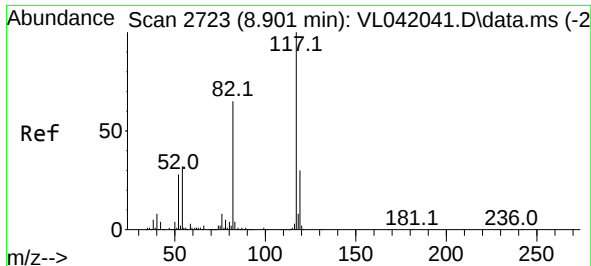
164 100

166 121.3 95.7 143.5

129 101.3 77.1 115.7

131 94.0 76.0 114.0

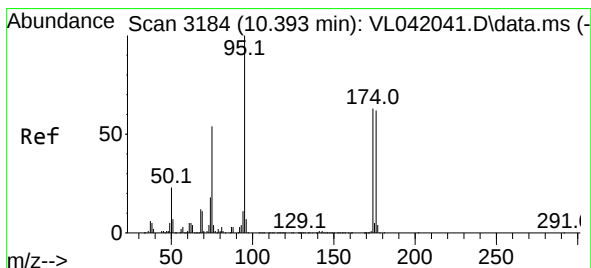
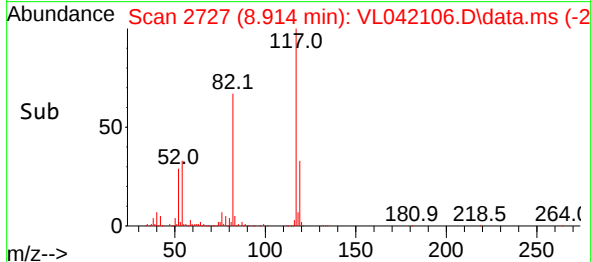
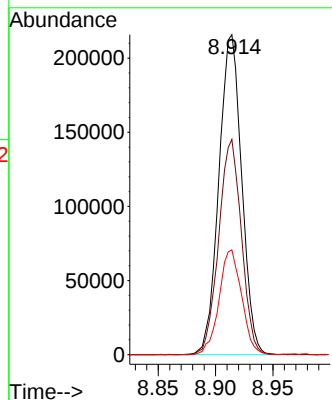
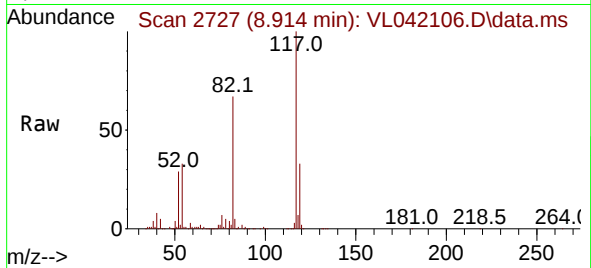




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion:117 Resp: 298512
Ion Ratio Lower Upper
117 100
82 67.0 55.0 82.6
119 32.6 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.588 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.010 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

Tgt Ion: 95 Resp: 220196
Ion Ratio Lower Upper
95 100
174 62.7 51.8 77.6
175 4.7 3.9 5.9

