

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042223.D
 Acq On : 04 Apr 2025 13:51
 Operator : SY/MD
 Sample : Q1691-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDL

Quant Time: Apr 05 02:03:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

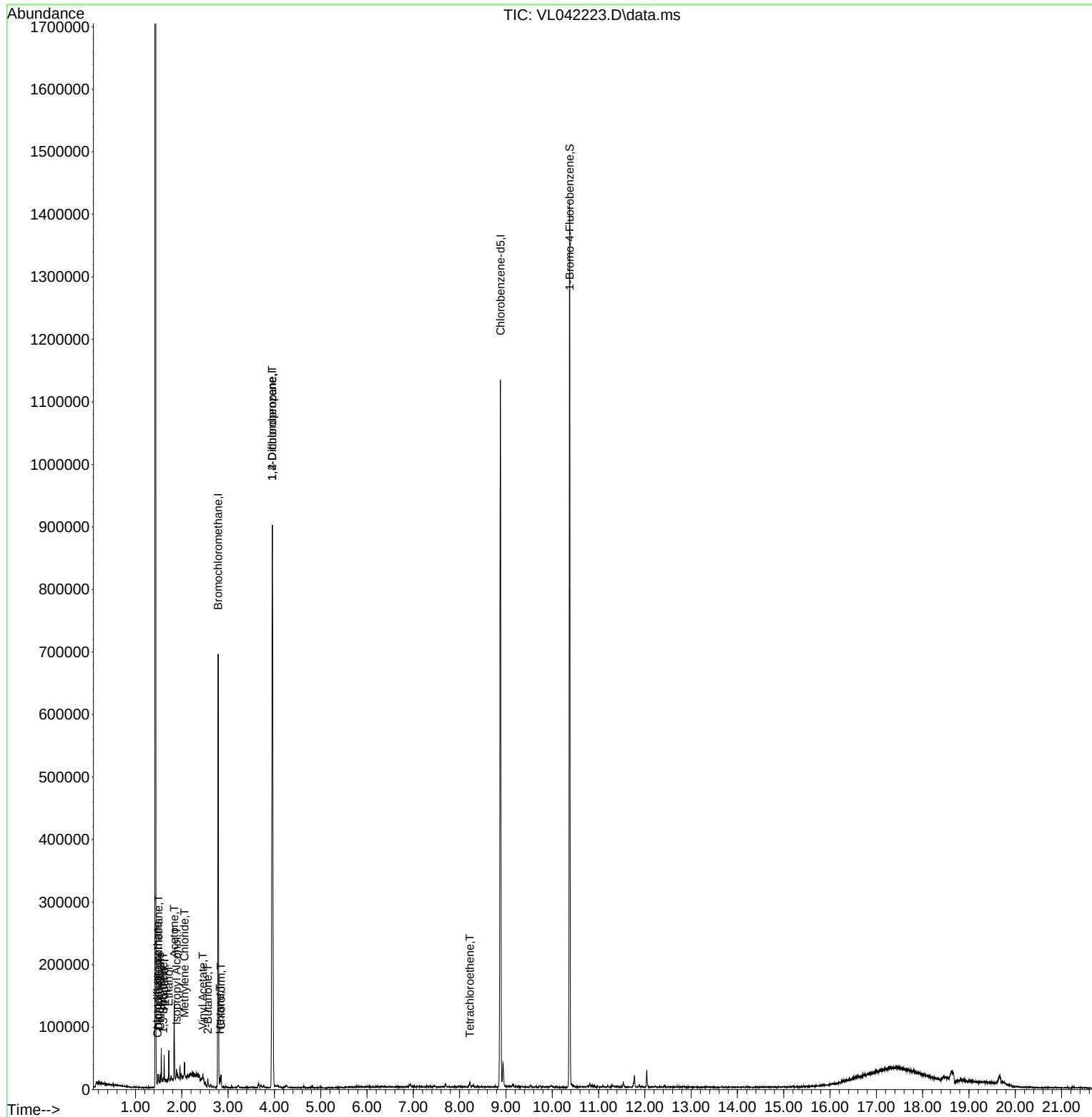
Internal Standards						
1) Bromochloromethane	2.784	49	188056	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512545	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	440550	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	345208	9.542	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	3185	0.115	ppbv	95
3) Chlorodifluoromethane	1.476	51	3373	0.119	ppbv	93
4) Chloromethane	1.531	50	2519	0.222	ppbv	94
9) Propene	1.619	41	3443	0.265	ppbv	86
13) Ethanol	1.719	45	16051	13.060	ppbv	83
15) Acetone	1.835	43	55932	2.127	ppbv	93
16) 1,3-Butadiene	1.599	39	579	0.045	ppbv #	11
19) Isopropyl Alcohol	1.887	45	6725	0.453	ppbv #	1
20) Methylene Chloride	2.059	84	3630	0.371	ppbv	91
23) Vinyl Acetate	2.454	43	8842	0.777	ppbv #	75
26) Hexane	2.823	57	2268	0.086	ppbv #	36
29) Chloroform	2.849	83	7103	0.184	ppbv	86
34) 2-Butanone	2.564	43	8233	0.222	ppbv	97
39) 1,2-Dichloropropane	3.955	63	133174	7.197	ppbv #	22
52) Tetrachloroethene	8.221	164	790	0.039	ppbv #	63

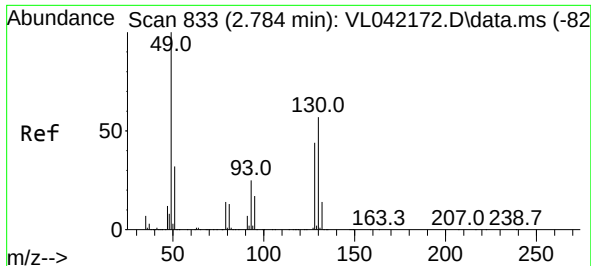
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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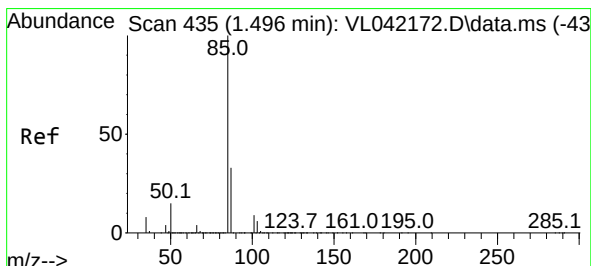
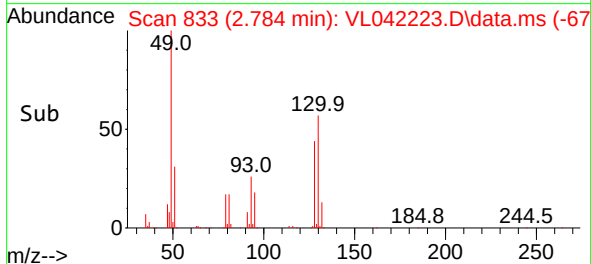
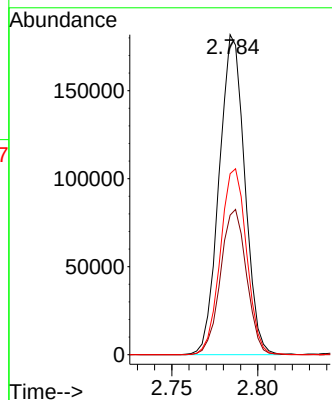
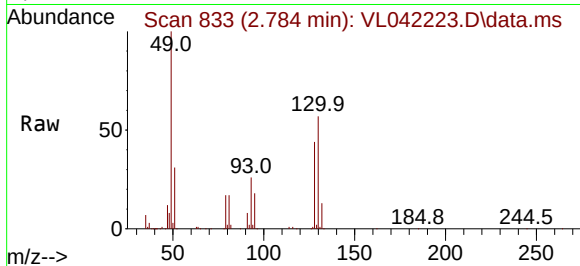




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042223.D
 Acq: 04 Apr 2025 13:51

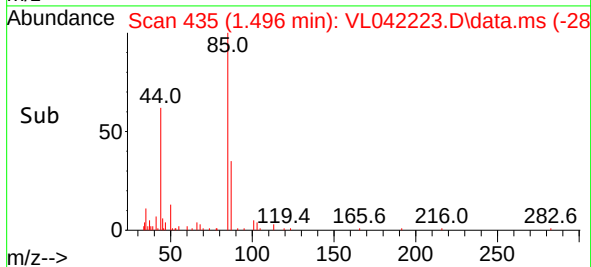
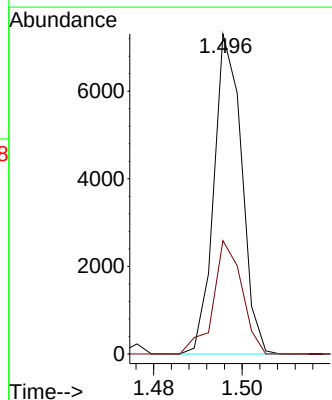
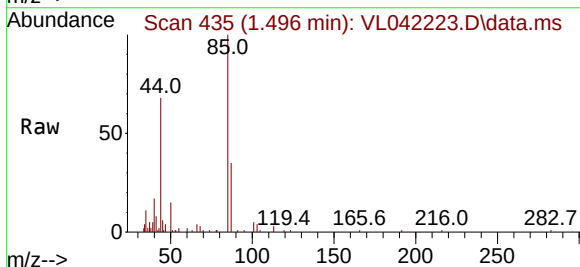
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDL

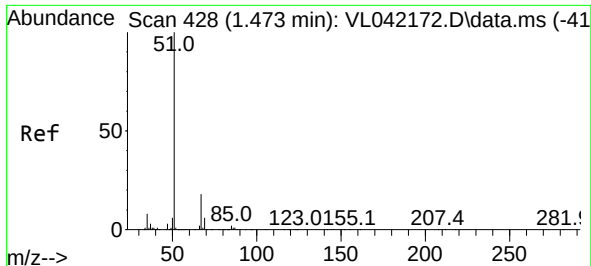
Tgt Ion: 49 Resp: 188056
 Ion Ratio Lower Upper
 49 100
 128 46.1 22.9 68.5
 130 59.4 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.115 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL042223.D
 Acq: 04 Apr 2025 13:51

Tgt Ion: 85 Resp: 3185
 Ion Ratio Lower Upper
 85 100
 87 35.4 26.1 39.1

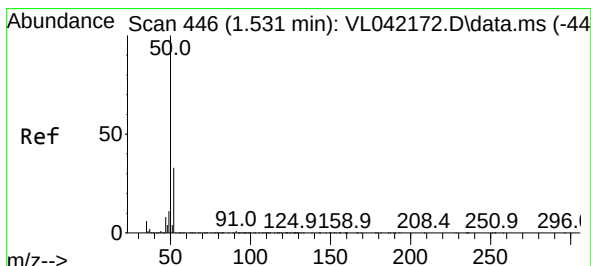
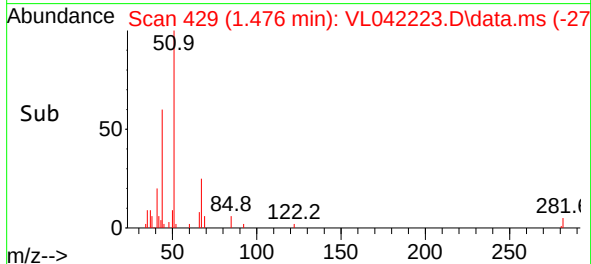
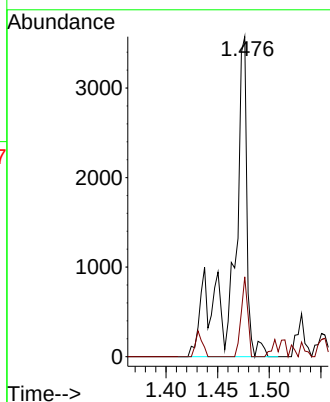
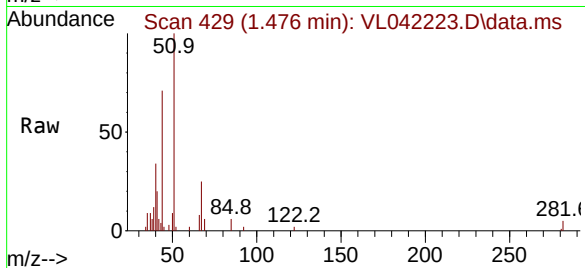




#3
Chlorodifluoromethane
Concen: 0.119 ppbv
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

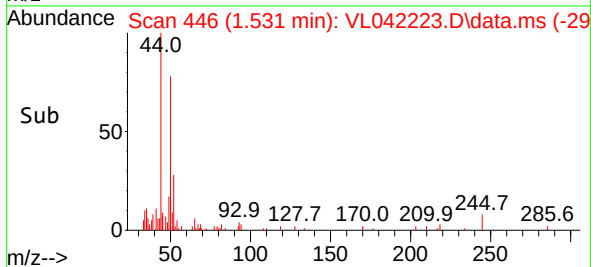
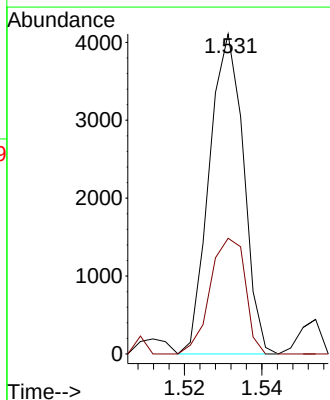
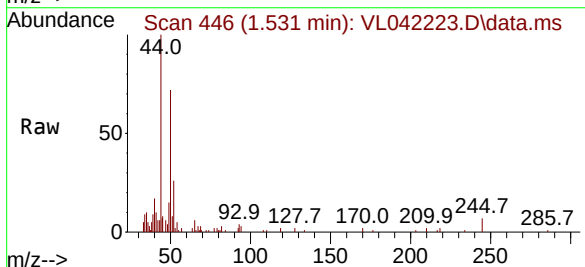
Instrument :
MSVOA_L
ClientSampleId :
IA2RDL

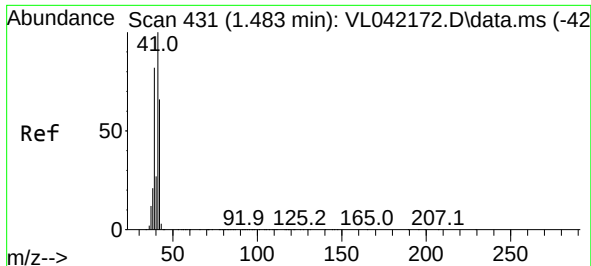
Tgt Ion: 51 Resp: 3373
Ion Ratio Lower Upper
51 100
67 15.8 15.0 22.6



#4
Chloromethane
Concen: 0.222 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

Tgt Ion: 50 Resp: 2519
Ion Ratio Lower Upper
50 100
52 36.1 26.1 39.1





#9

Propene

Concen: 0.265 ppbv

RT: 1.619 min Scan# 41

Delta R.T. 0.136 min

Lab File: VL042223.D

Acq: 04 Apr 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

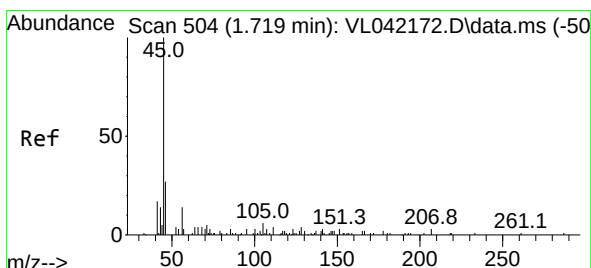
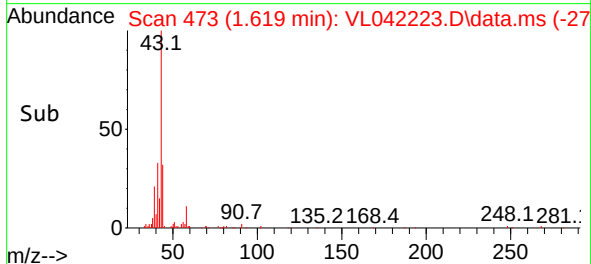
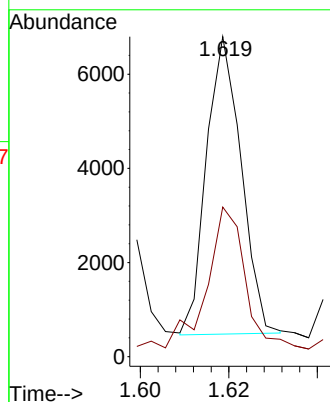
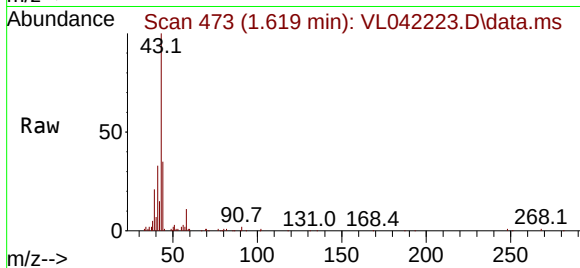
IA2RDL

Tgt Ion: 41 Resp: 3443

Ion Ratio Lower Upper

41 100

42 58.1 55.4 83.2



#13

Ethanol

Concen: 13.060 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL042223.D

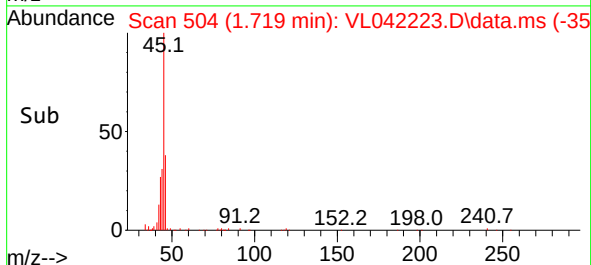
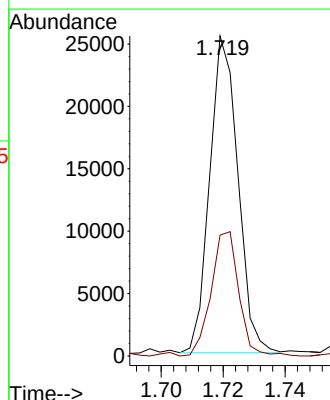
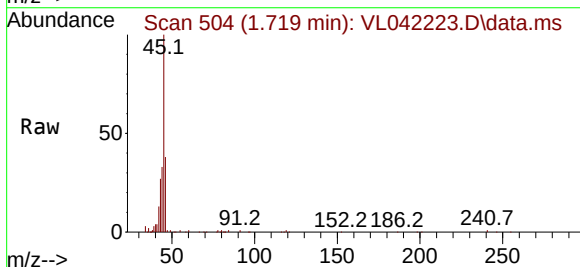
Acq: 04 Apr 2025 13:51

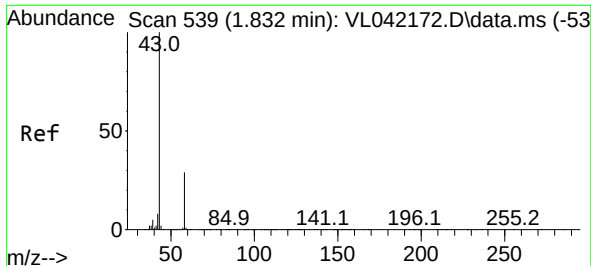
Tgt Ion: 45 Resp: 16051

Ion Ratio Lower Upper

45 100

46 39.0 20.2 80.8





#15

Acetone

Concen: 2.127 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042223.D

Acq: 04 Apr 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

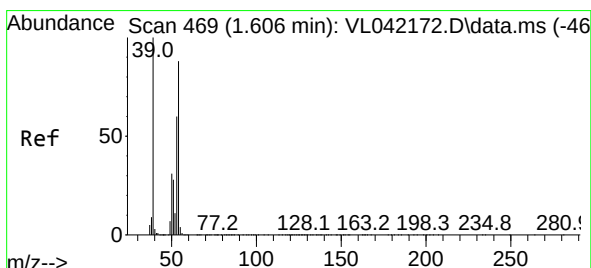
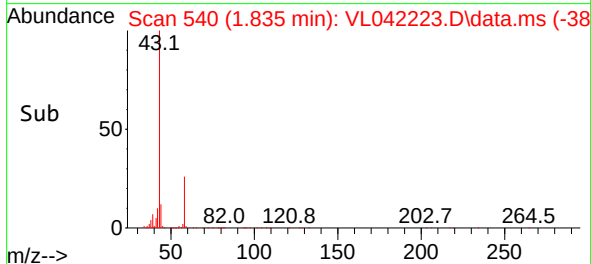
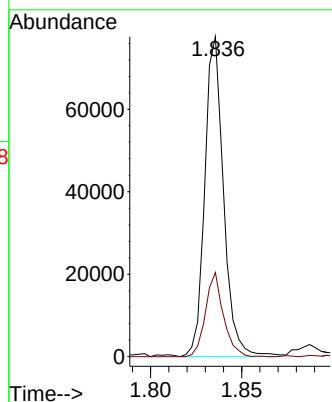
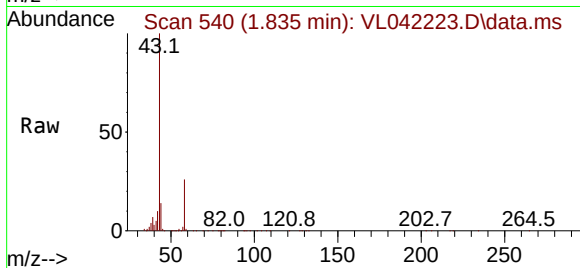
IA2RDL

Tgt Ion: 43 Resp: 55932

Ion Ratio Lower Upper

43 100

58 25.0 23.2 34.8



#16

1,3-Butadiene

Concen: 0.045 ppbv

RT: 1.599 min Scan# 467

Delta R.T. -0.007 min

Lab File: VL042223.D

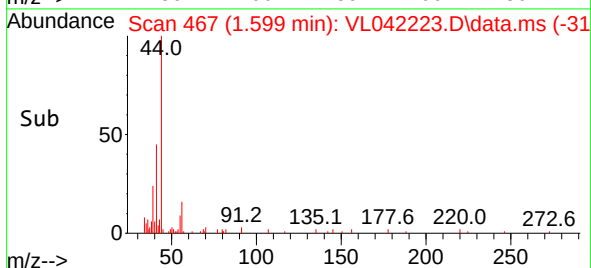
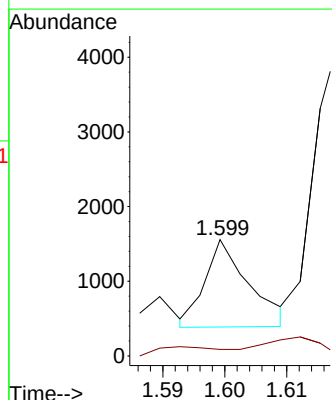
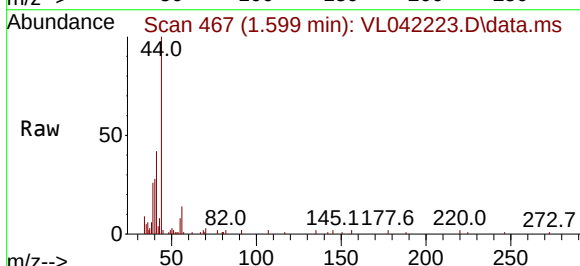
Acq: 04 Apr 2025 13:51

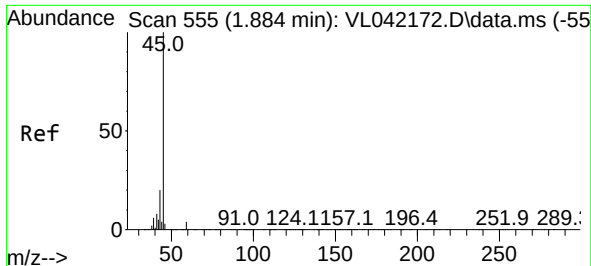
Tgt Ion: 39 Resp: 579

Ion Ratio Lower Upper

39 100

54 0.0 60.7 91.1#

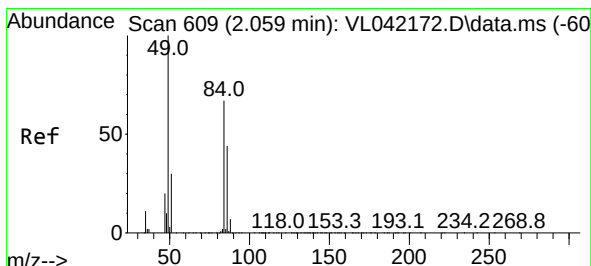
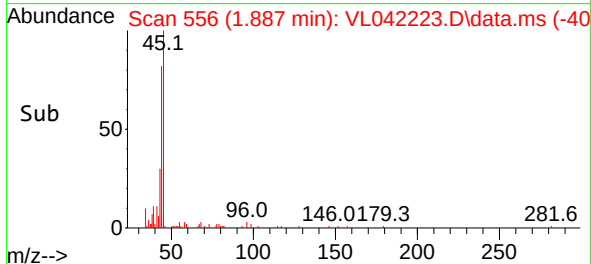
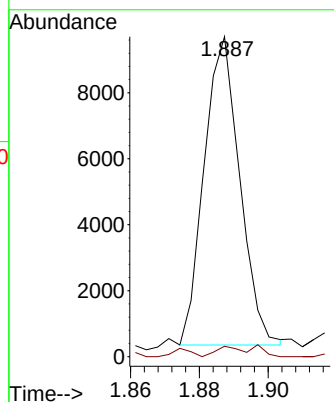
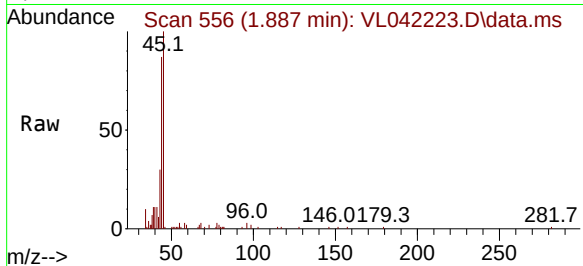




#19
Isopropyl Alcohol
Concen: 0.453 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

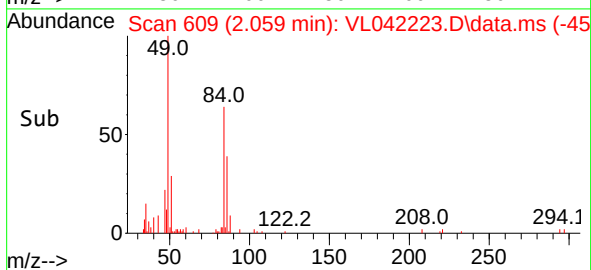
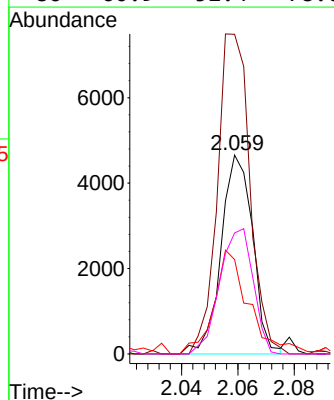
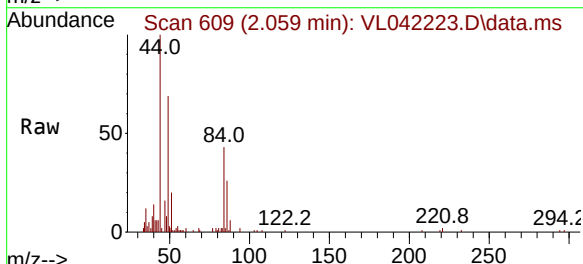
Instrument :
MSVOA_L
ClientSampleId :
IA2RDL

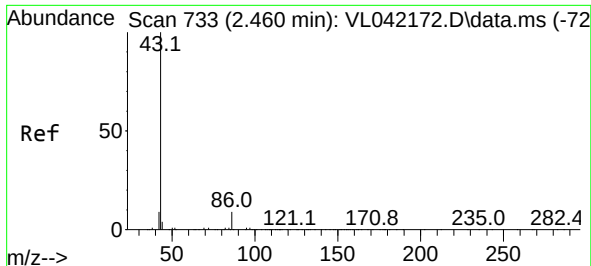
Tgt Ion: 45 Resp: 6725
Ion Ratio Lower Upper
45 100
58 209.5 36.9 55.3#



#20
Methylene Chloride
Concen: 0.371 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

Tgt Ion: 84 Resp: 3630
Ion Ratio Lower Upper
84 100
49 166.8 120.2 180.4
51 47.4 37.4 56.0
86 60.9 52.4 78.6

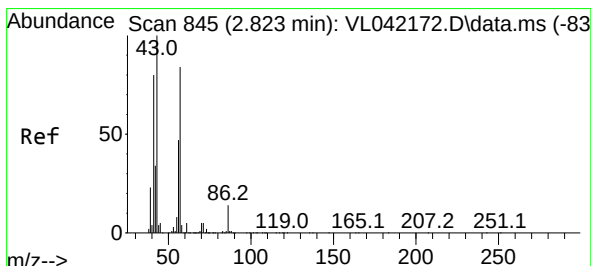
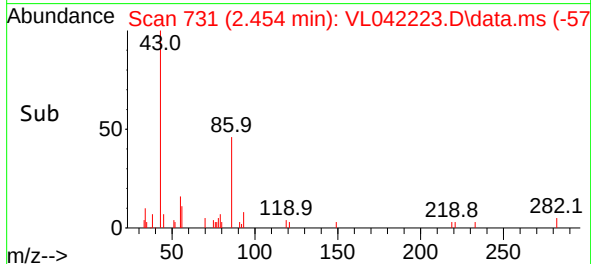
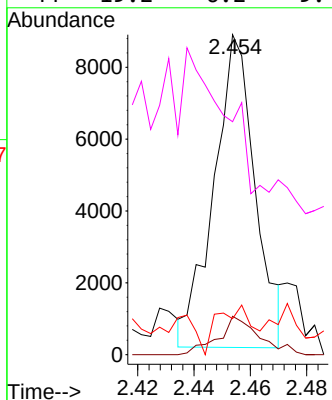
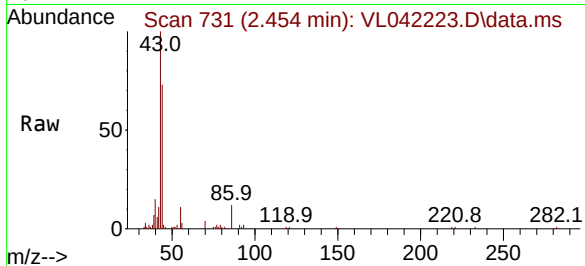




#23
 Vinyl Acetate
 Concen: 0.777 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.007 min
 Lab File: VL042223.D
 Acq: 04 Apr 2025 13:51

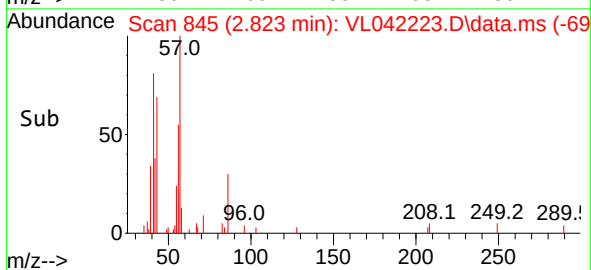
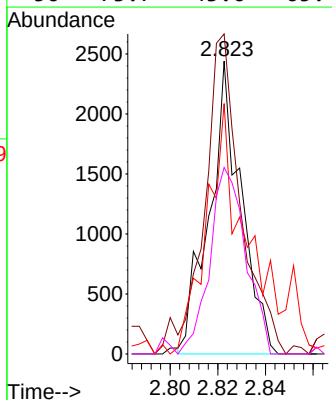
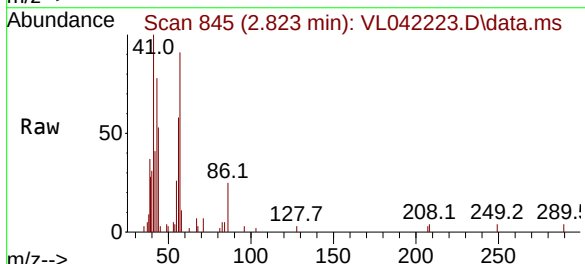
Instrument :
 MSVOA_1
 ClientSampleId :
 IA2RDL

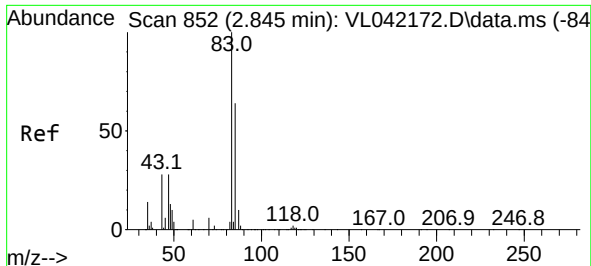
Tgt Ion: 43	Resp: 8842
Ion Ratio	Lower Upper
43 100	
86 13.5	5.5 8.3#
42 2.1	8.6 13.0#
44 19.2	6.2 9.4#



#26
 Hexane
 Concen: 0.086 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.000 min
 Lab File: VL042223.D
 Acq: 04 Apr 2025 13:51

Tgt Ion: 57	Resp: 2268
Ion Ratio	Lower Upper
57 100	
41 133.6	76.6 114.8#
43 114.8	207.8 311.8#
56 73.7	43.6 65.4#





#29

Chloroform

Concen: 0.184 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042223.D

Acq: 04 Apr 2025 13:51

Instrument :

MSVOA_L

ClientSampleId :

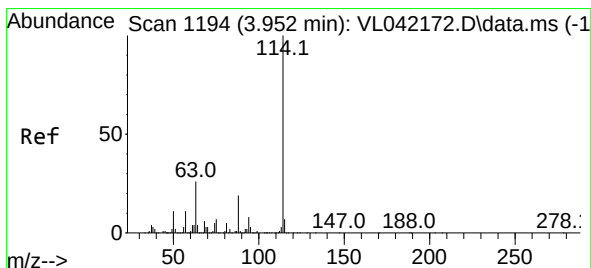
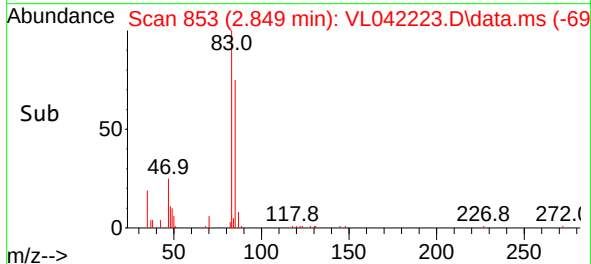
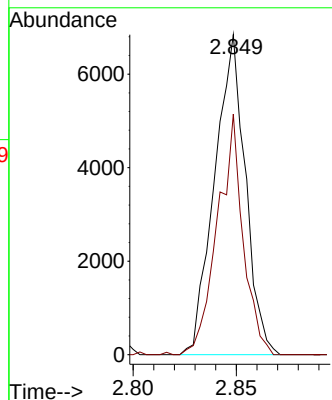
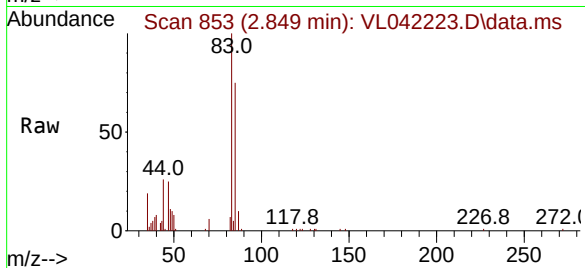
IA2RDL

Tgt Ion: 83 Resp: 7103

Ion Ratio Lower Upper

83 100

85 75.2 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042223.D

Acq: 04 Apr 2025 13:51

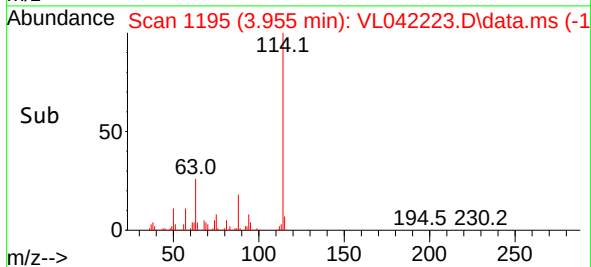
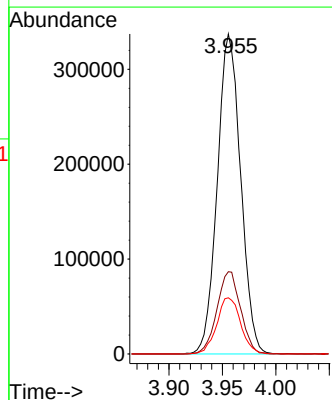
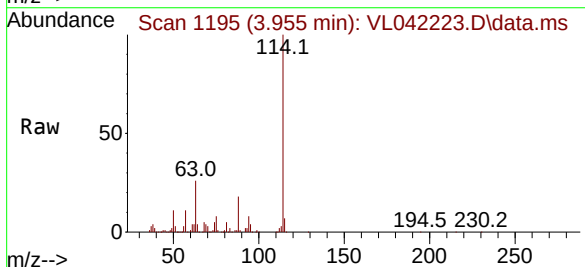
Tgt Ion: 114 Resp: 512545

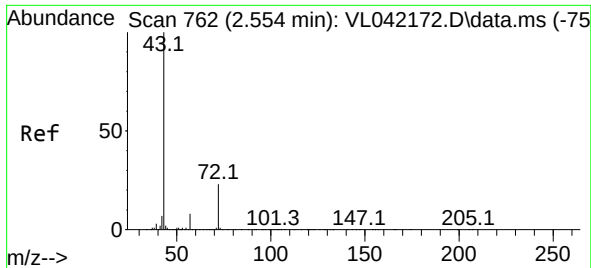
Ion Ratio Lower Upper

114 100

63 26.1 20.7 31.1

88 18.0 15.0 22.4

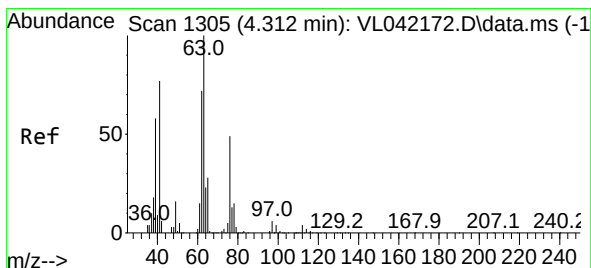
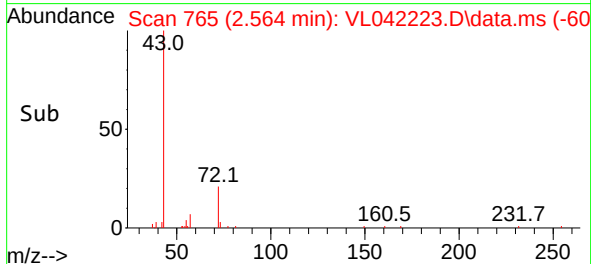
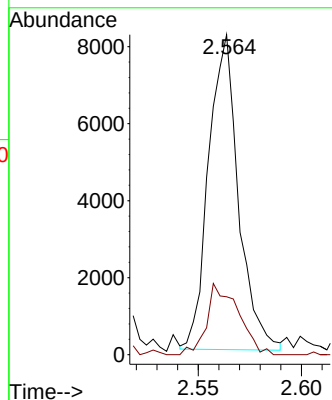
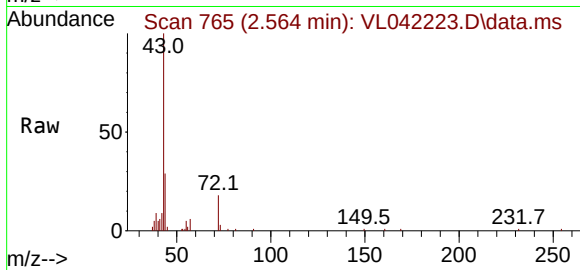




#34
2-Butanone
Concen: 0.222 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

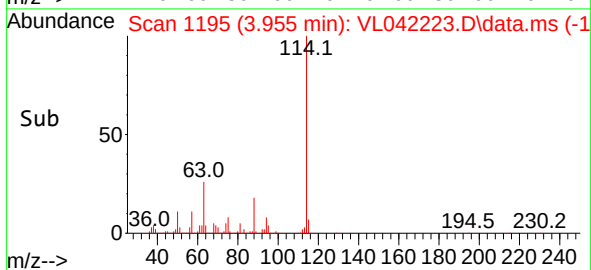
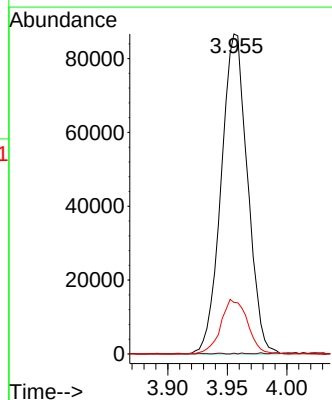
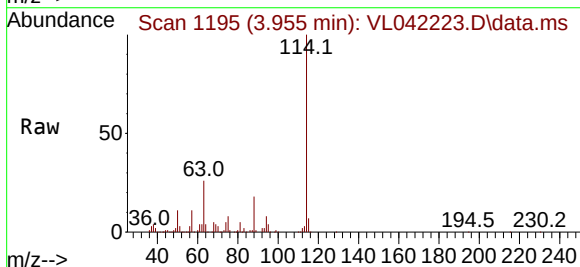
Instrument :
MSVOA_L
ClientSampleId :
IA2RDL

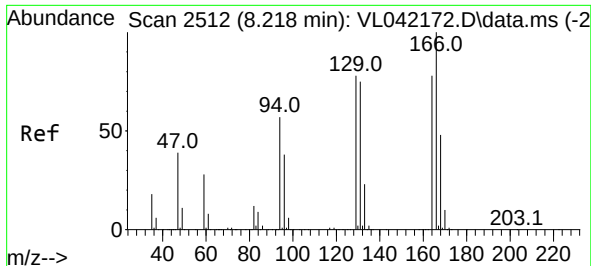
Tgt Ion: 43 Resp: 8233
Ion Ratio Lower Upper
43 100
72 24.3 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.197 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

Tgt Ion: 63 Resp: 133174
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 16.1 57.6 86.4#

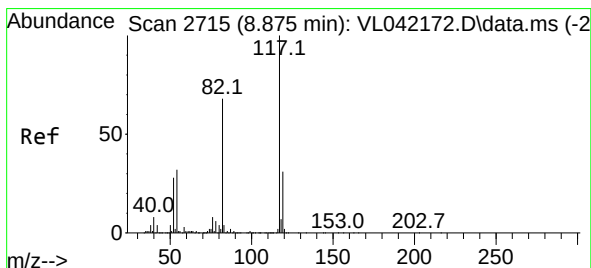
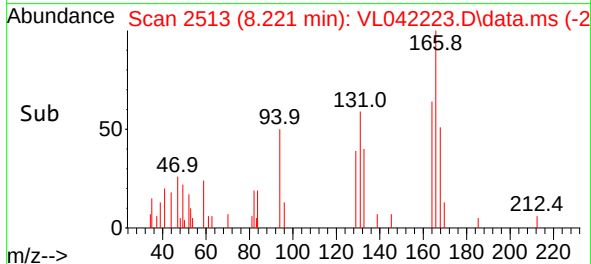
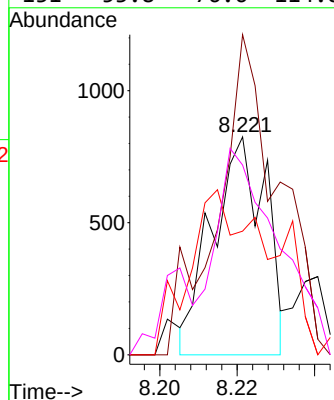
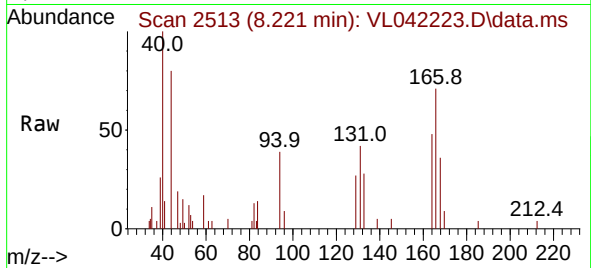




#52
Tetrachloroethene
Concen: 0.039 ppbv
RT: 8.221 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

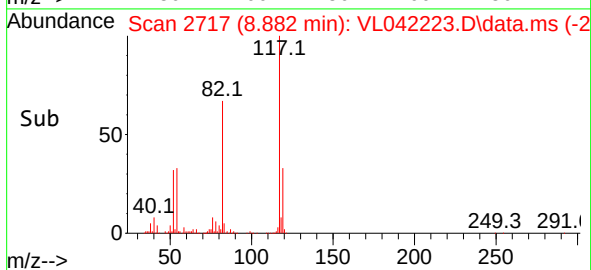
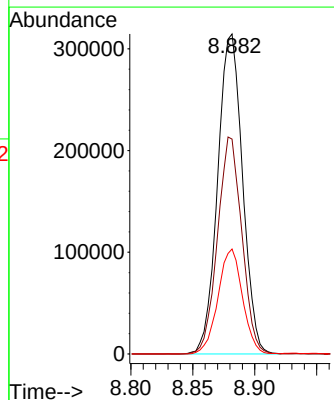
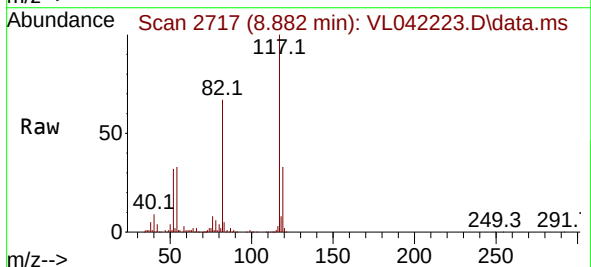
Instrument :
MSVOA_L
ClientSampleId :
IA2RDL

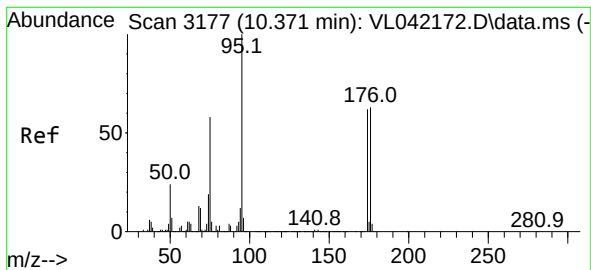
Tgt Ion:164 Resp: 790
Ion Ratio Lower Upper
164 100
166 111.2 102.5 153.7
129 41.2 79.8 119.8#
131 53.8 76.6 114.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042223.D
Acq: 04 Apr 2025 13:51

Tgt Ion:117 Resp: 440550
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.6 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.542 ppbv
 RT: 10.374 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL042223.D
 Acq: 04 Apr 2025 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2RDL

Tgt Ion: 95 Resp: 345208
 Ion Ratio Lower Upper
 95 100
 174 60.4 50.6 76.0
 175 4.6 3.8 5.6

