

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041906.D
 Acq On : 14 Jan 2025 23:22
 Operator : SY/MD
 Sample : Q1073-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 15 03:29:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	136441	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	396539	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	360198	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	282769	9.967	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%

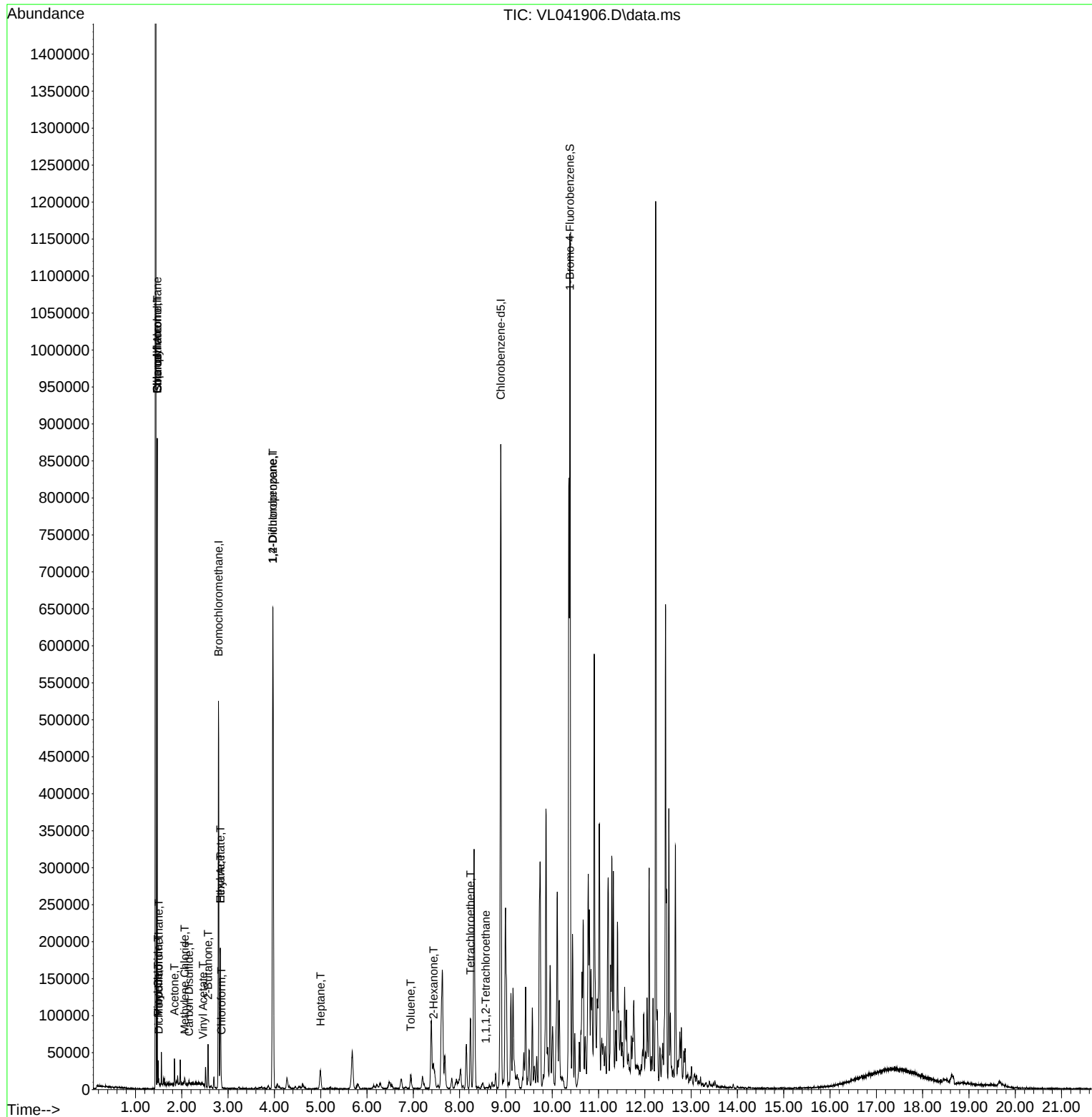
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2530	0.136	ppbv #	81
3) Chlorodifluoromethane	1.470	51	157689	8.099	ppbv #	59
5) Vinyl Chloride	1.489	62	492	0.069	ppbv #	42
7) Chloroethane	1.470	64	18509	6.720	ppbv #	62
9) Propene	1.489	41	2038	0.254	ppbv	88
10) Heptane	4.994	43	7388	0.345	ppbv #	81
13) Ethanol	1.470	45	36846	62.720	ppbv	92
15) Acetone	1.839	43	14391	0.878	ppbv #	58
19) Isopropyl Alcohol	1.470	45	36846	3.792	ppbv #	34
20) Methylene Chloride	2.065	84	1487	0.230	ppbv #	71
23) Vinyl Acetate	2.457	43	925	0.114	ppbv #	19
25) Ethyl Acetate	2.832	43	30024	0.679	ppbv #	76
26) Hexane	2.832	57	44321	2.536	ppbv #	35
27) Carbon Disulfide	2.156	76	2367	0.137	ppbv #	1
29) Chloroform	2.855	83	3417	0.124	ppbv	96
34) 2-Butanone	2.567	43	34092	1.352	ppbv	98
39) 1,2-Dichloropropane	3.968	63	98042	7.685	ppbv #	22
51) 2-Hexanone	7.438	43	4869	0.184	ppbv #	27
52) Tetrachloroethene	8.237	164	16006	1.269	ppbv	96
53) Toluene	6.943	91	12736	0.321	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.567	131	66	0.004	ppbv #	35

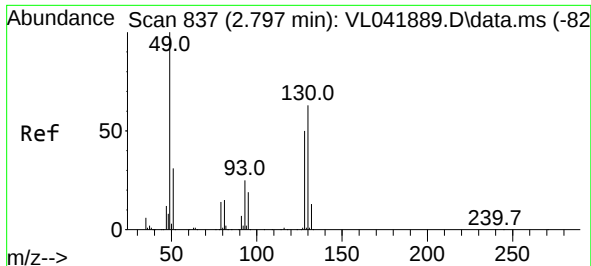
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

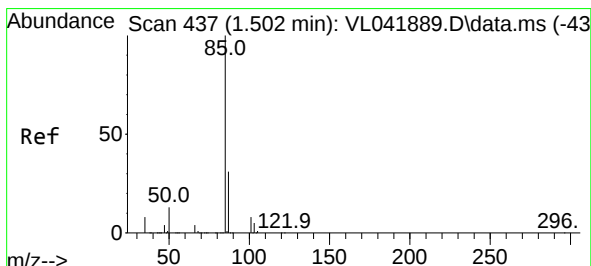
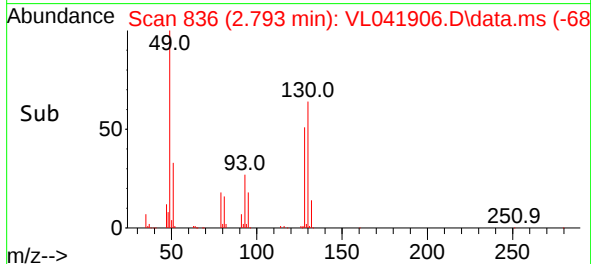
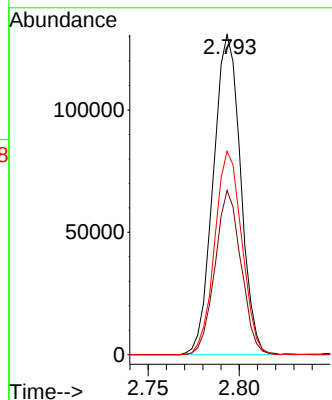
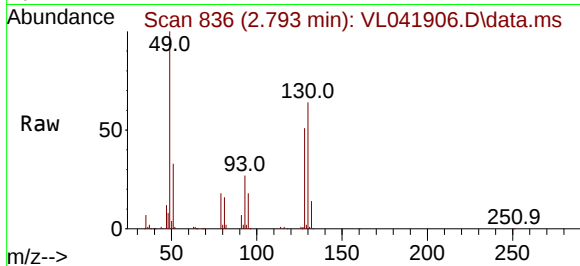




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

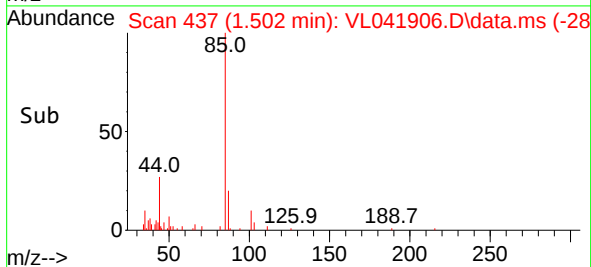
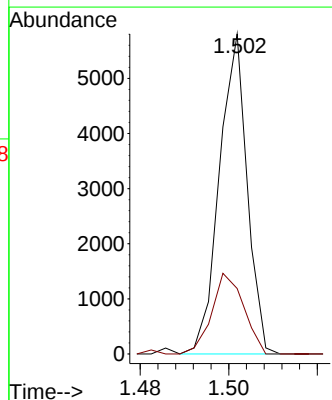
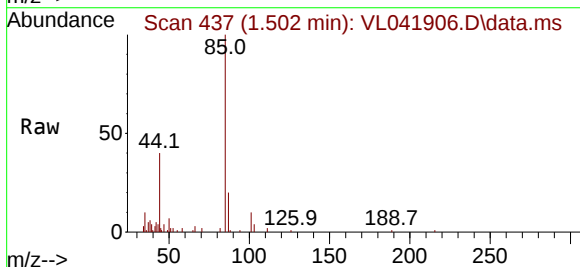
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MSVOA_L
ClientSampleId :

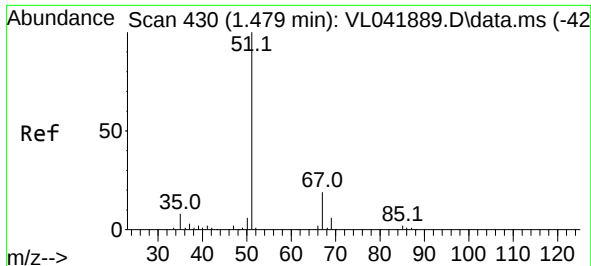
Tgt Ion: 49 Resp: 136441
Ion Ratio Lower Upper
49 100
128 48.9 24.3 73.0
130 63.3 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.136 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 85 Resp: 2530
Ion Ratio Lower Upper
85 100
87 20.5 24.9 37.3#

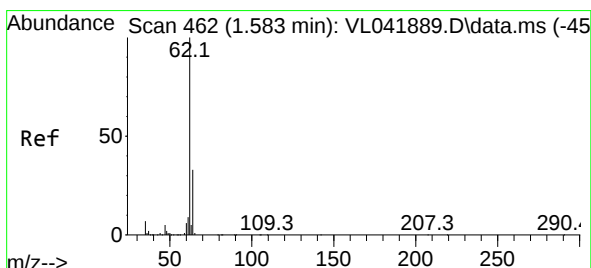
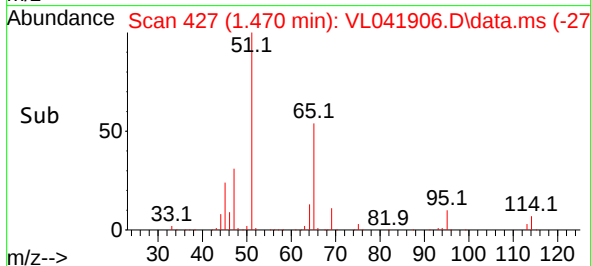
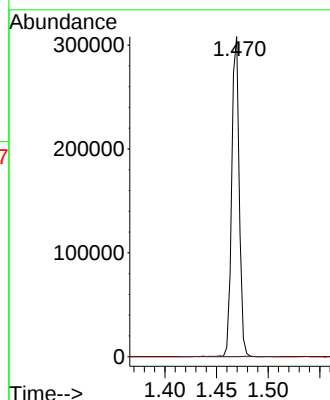
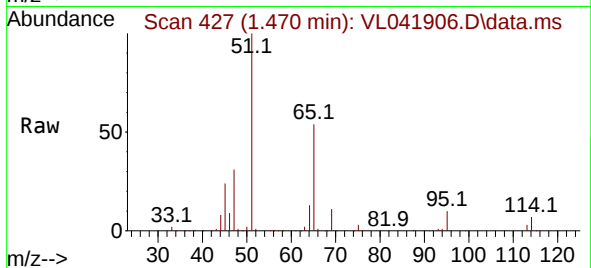




#3
Chlorodifluoromethane
Concen: 8.099 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

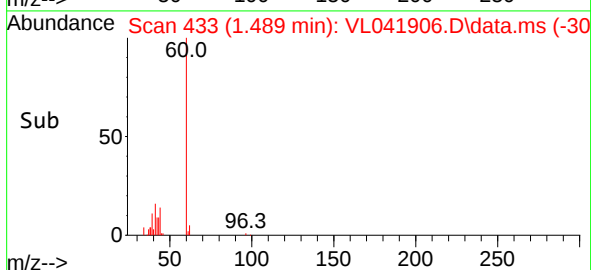
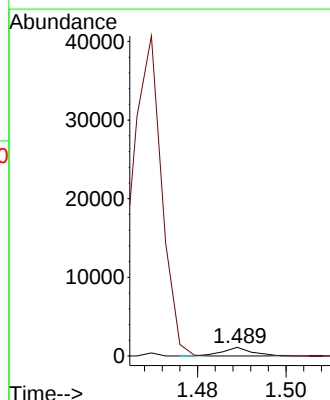
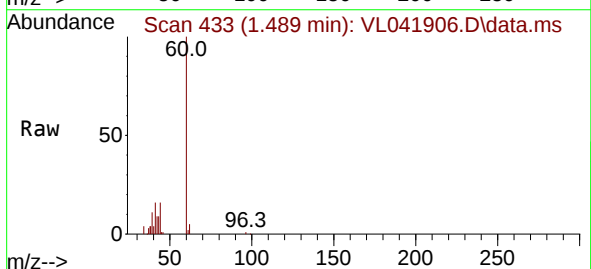
Instrument :
MSVOA_L
ClientSampleId :

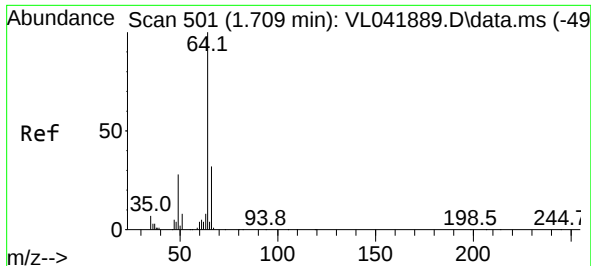
Tgt Ion: 51 Resp: 157689
Ion Ratio Lower Upper
51 100
67 0.2 15.0 22.4#



#5
Vinyl Chloride
Concen: 0.069 ppbv
RT: 1.489 min Scan# 433
Delta R.T. -0.094 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 62 Resp: 492
Ion Ratio Lower Upper
62 100
64 0.0 26.1 39.1#

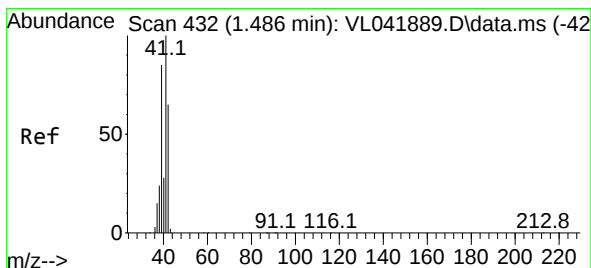
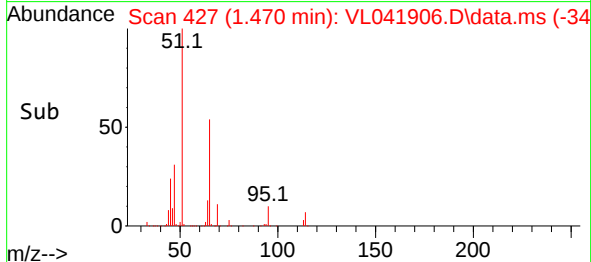
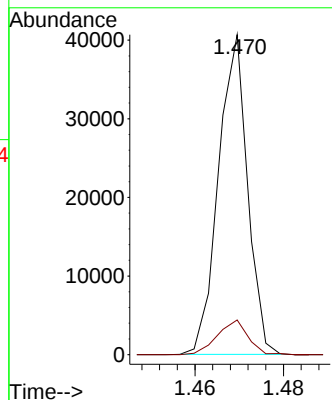
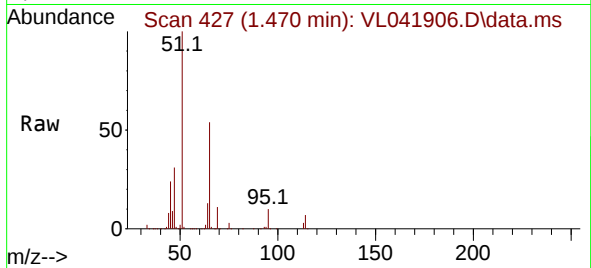




#7
Chloroethane
Concen: 6.720 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.240 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

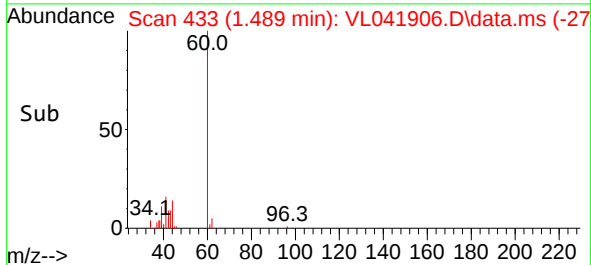
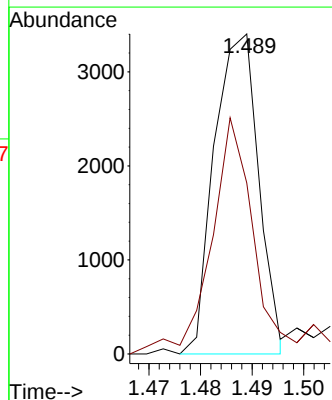
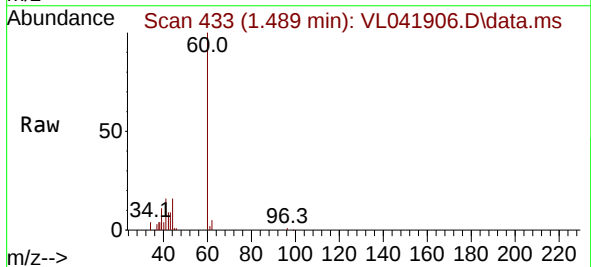
Instrument :
MSVOA_L
ClientSampleId :

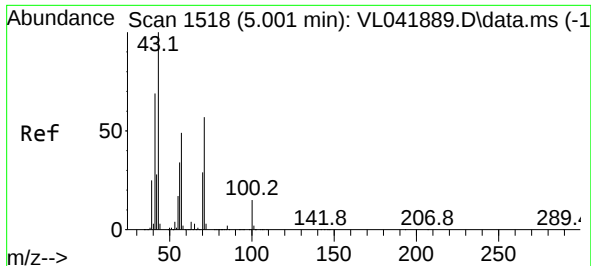
Tgt Ion: 64 Resp: 18509
Ion Ratio Lower Upper
64 100
66 10.8 25.7 38.5#



#9
Propene
Concen: 0.254 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 41 Resp: 2038
Ion Ratio Lower Upper
41 100
42 74.5 52.0 78.0

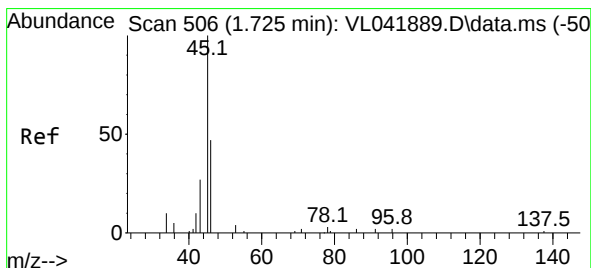
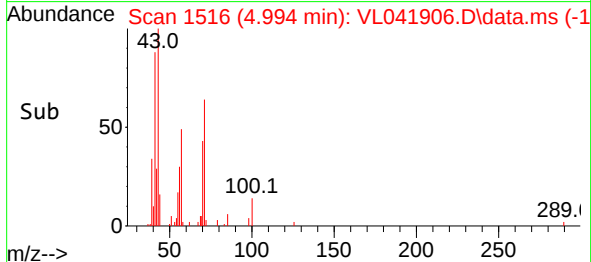
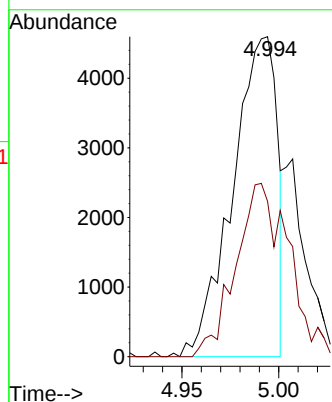
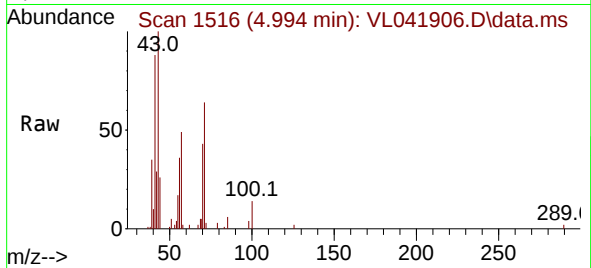




#10
Heptane
Concen: 0.345 ppbv
RT: 4.994 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

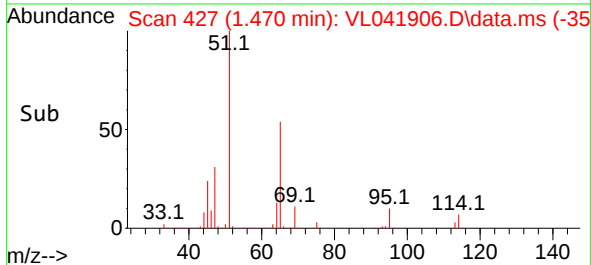
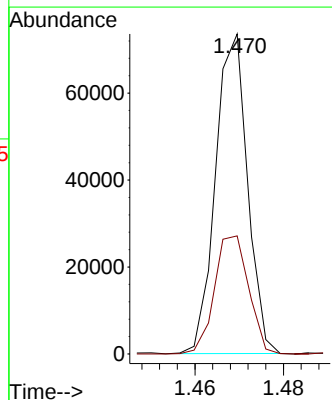
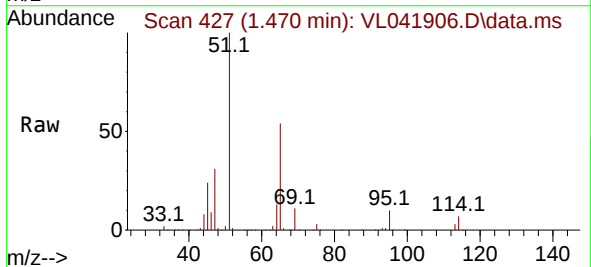
Instrument :
MSVOA_L
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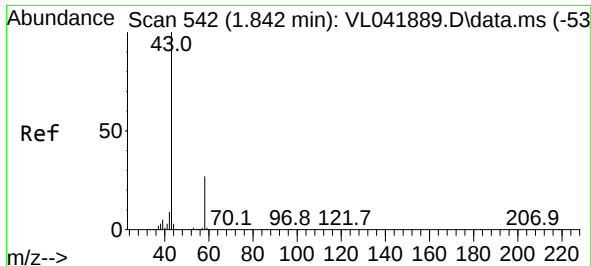
Tgt Ion: 43 Resp: 7388
Ion Ratio Lower Upper
43 100
57 64.3 41.0 61.4#



#13
Ethanol
Concen: 62.720 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.256 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 45 Resp: 36846
Ion Ratio Lower Upper
45 100
46 39.8 18.1 72.5

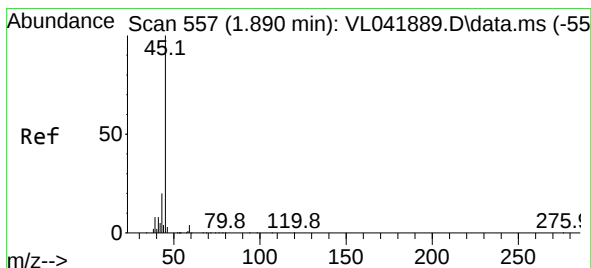
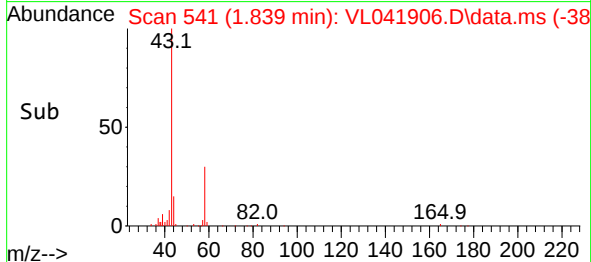
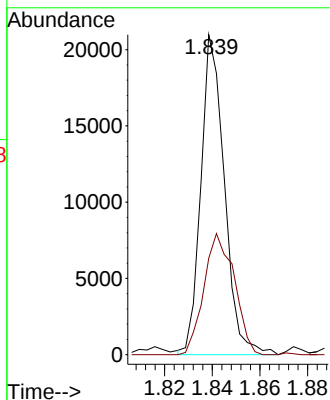
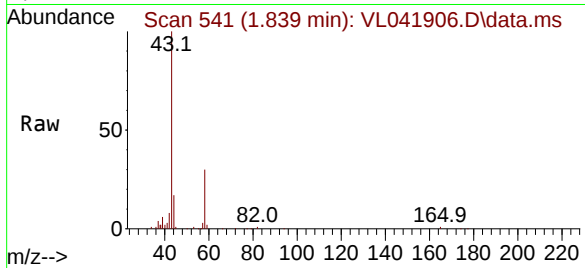




#15
Acetone
Concen: 0.878 ppbv
RT: 1.839 min Scan# 54
Delta R.T. -0.003 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

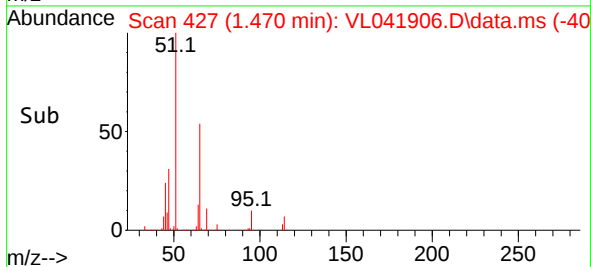
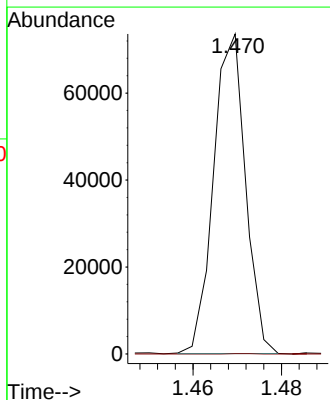
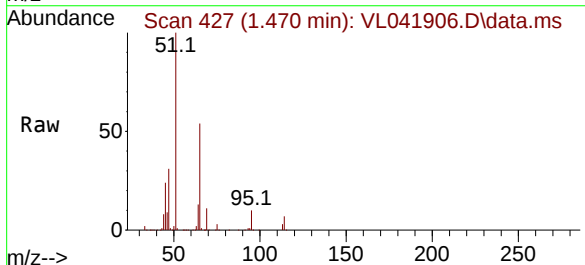
Instrument :
MSVOA_L
ClientSampleId :

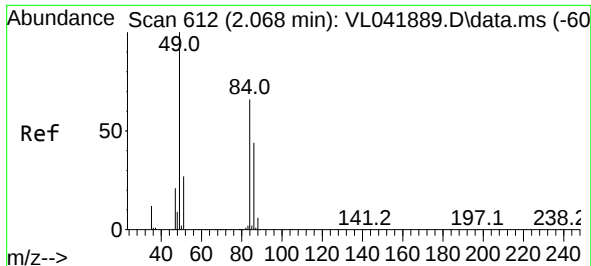
Tgt Ion: 43 Resp: 14391
Ion Ratio Lower Upper
43 100
58 49.2 21.9 32.9#



#19
Isopropyl Alcohol
Concen: 3.792 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.421 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

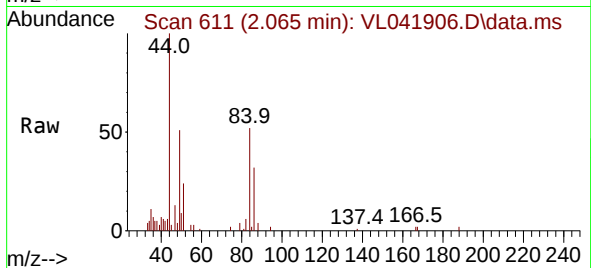
Tgt Ion: 45 Resp: 36846
Ion Ratio Lower Upper
45 100
58 1.1 35.0 52.6#



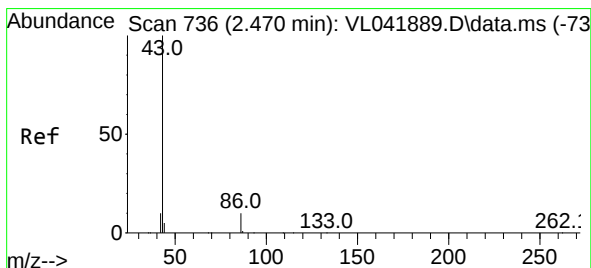
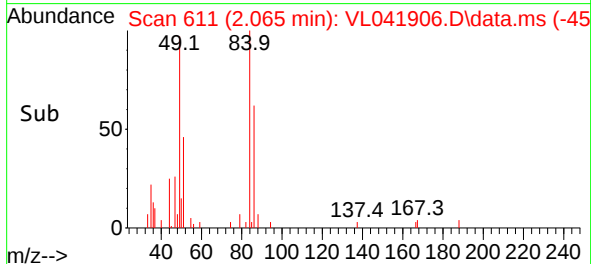
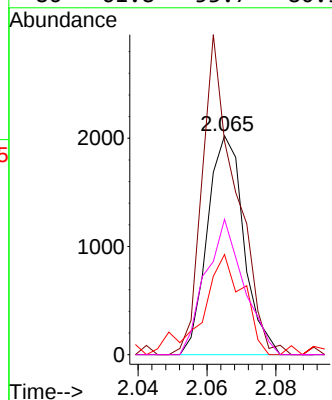


#20
Methylene Chloride
Concen: 0.230 ppbv
RT: 2.065 min Scan# 612
Delta R.T. -0.003 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Instrument :
MSVOA_L
ClientSampleId :

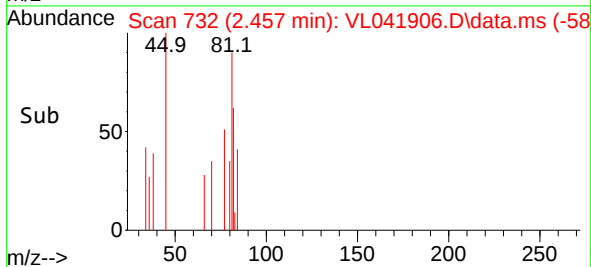
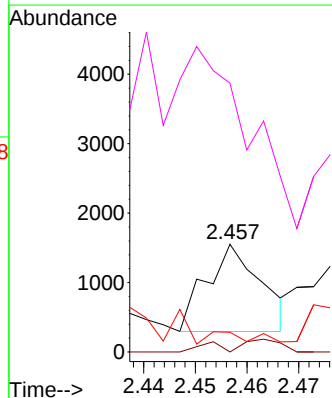
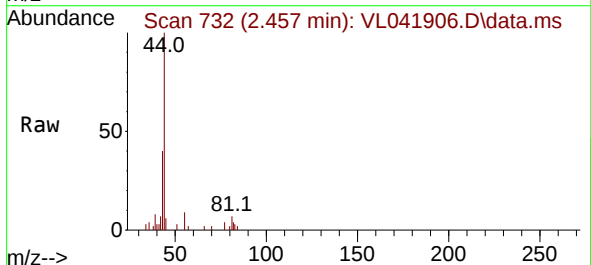


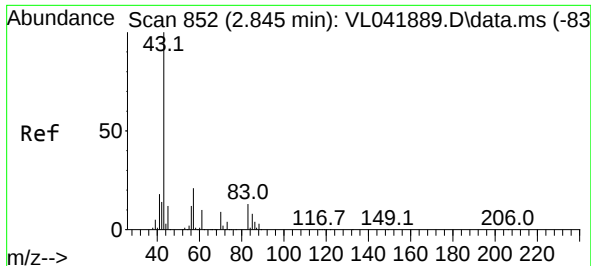
Tgt Ion: 84 Resp: 1487
Ion Ratio Lower Upper
84 100
49 94.7 123.1 184.7#
51 45.8 35.8 53.8
86 61.8 53.7 80.5



#23
Vinyl Acetate
Concen: 0.114 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.013 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 43 Resp: 925
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#
42 11.0 8.5 12.7
44 106.4 4.8 7.2#

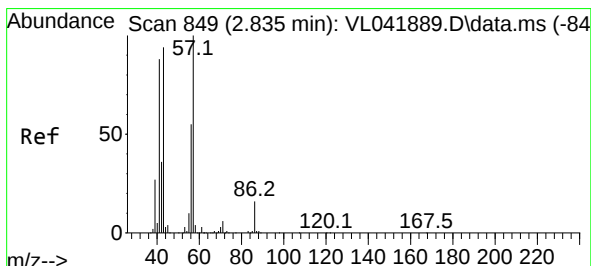
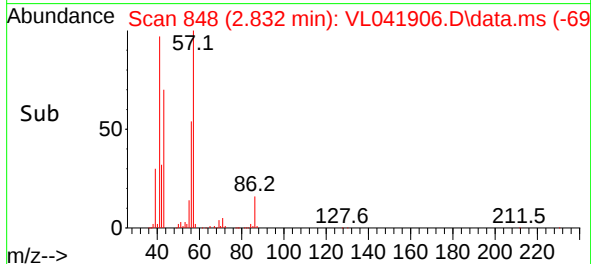
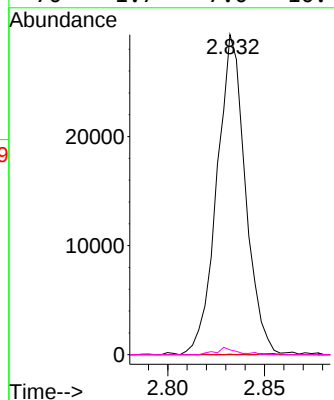
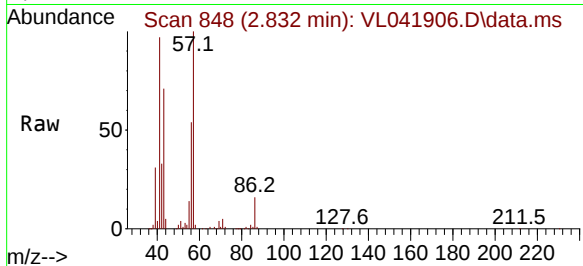




#25
Ethyl Acetate
Concen: 0.679 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.013 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

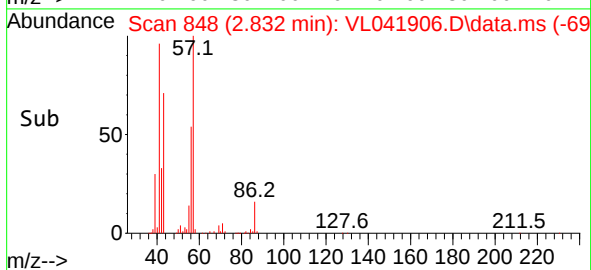
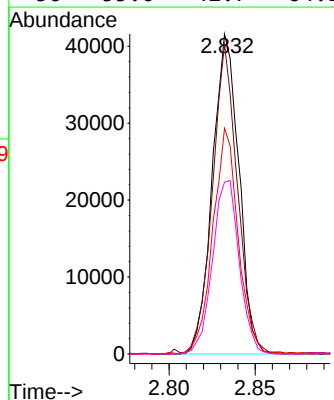
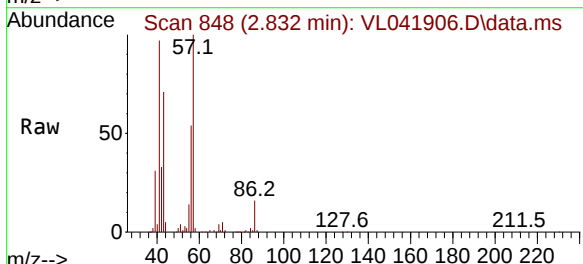
Instrument :
MSVOA_L
ClientSampleId :

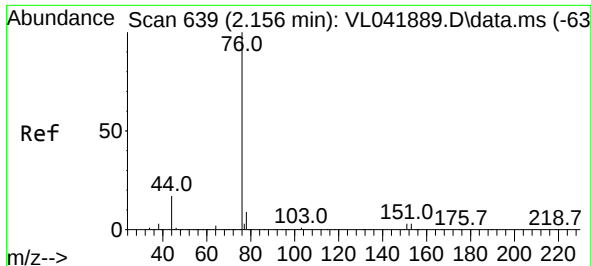
Tgt Ion: 43 Resp: 30024
Ion Ratio Lower Upper
43 100
45 0.2 8.2 12.2#
61 0.2 7.4 11.0#
70 1.7 7.0 10.4#



#26
Hexane
Concen: 2.536 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 57 Resp: 44321
Ion Ratio Lower Upper
57 100
41 93.3 73.8 110.8
43 68.1 197.3 295.9#
56 55.0 42.7 64.1





#27

Carbon Disulfide

Concen: 0.137 ppbv

RT: 2.156 min Scan# 61

Delta R.T. -0.000 min

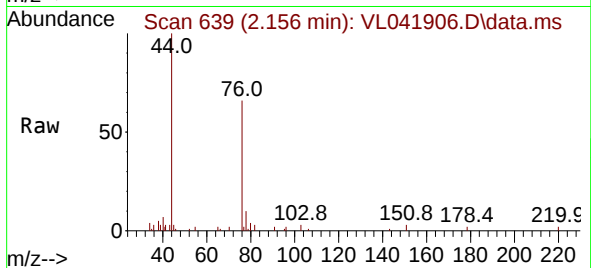
Lab File: VL041906.D

Acq: 14 Jan 2025 23:22

Instrument :

MSVOA_L

ClientSampleId :



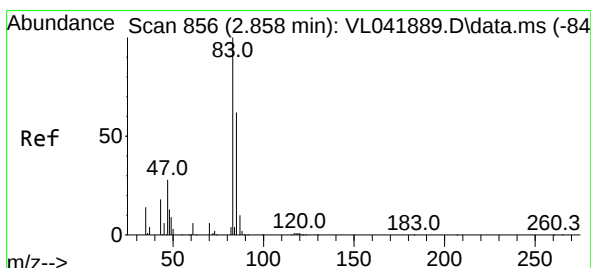
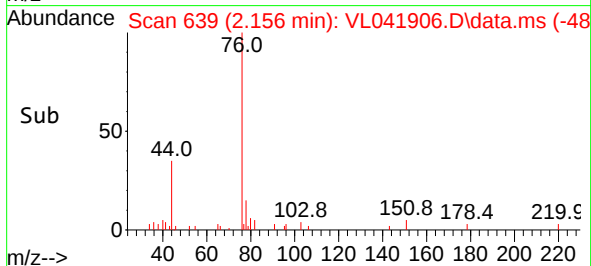
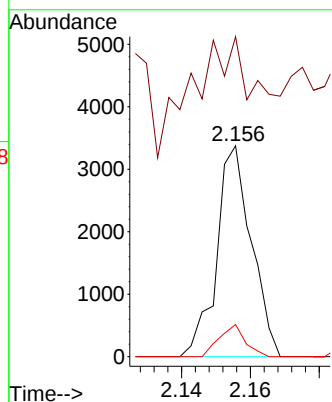
Tgt Ion: 76 Resp: 2367

Ion Ratio Lower Upper

76 100

44 336.6 15.4 23.0#

78 11.4 9.3 13.9



#29

Chloroform

Concen: 0.124 ppbv

RT: 2.855 min Scan# 855

Delta R.T. -0.003 min

Lab File: VL041906.D

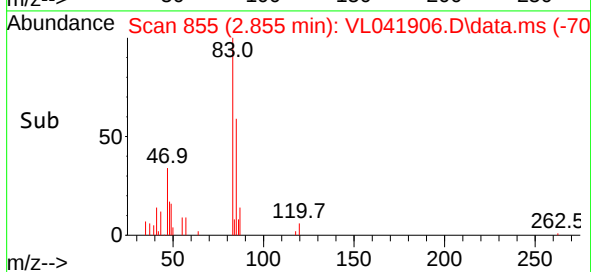
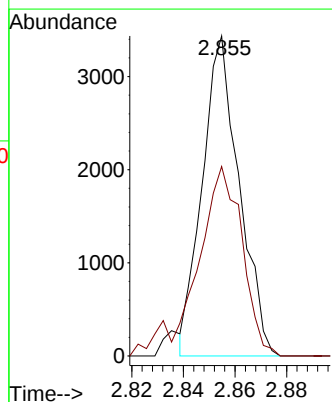
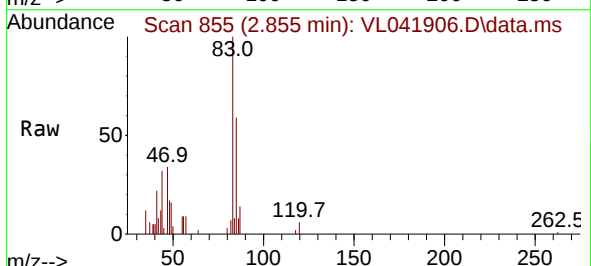
Acq: 14 Jan 2025 23:22

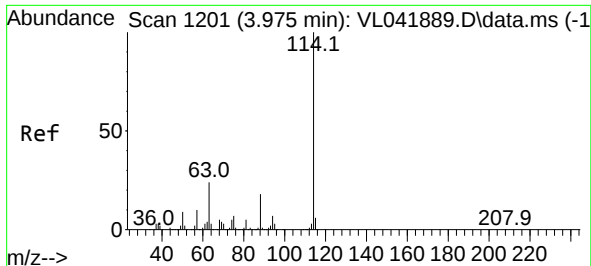
Tgt Ion: 83 Resp: 3417

Ion Ratio Lower Upper

83 100

85 59.2 50.1 75.1

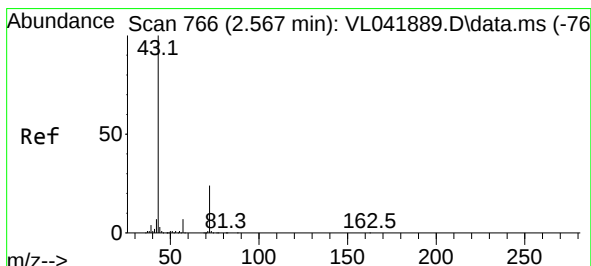
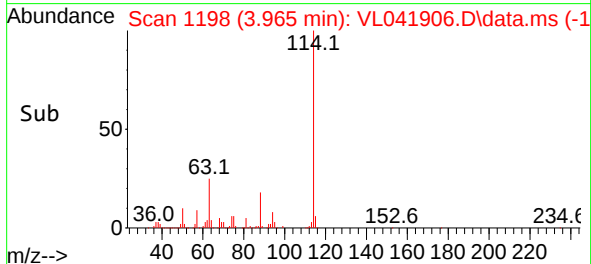
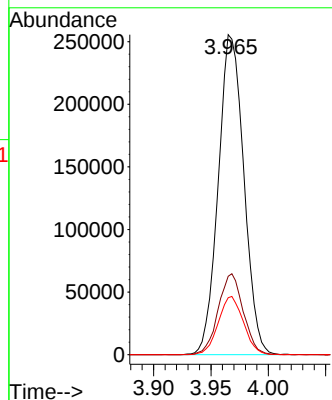
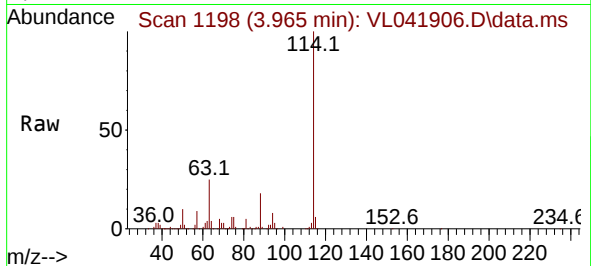




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.010 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

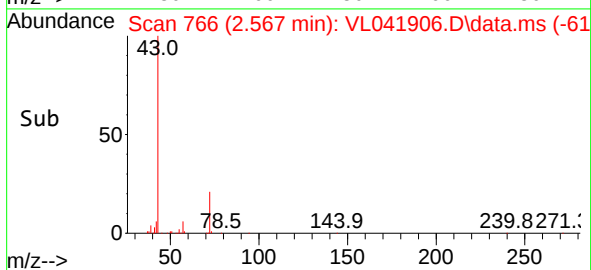
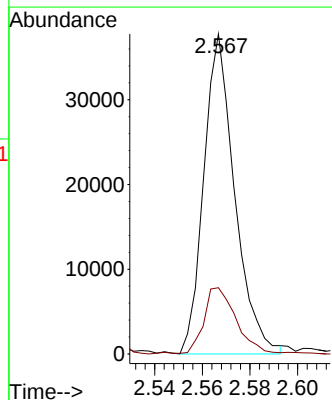
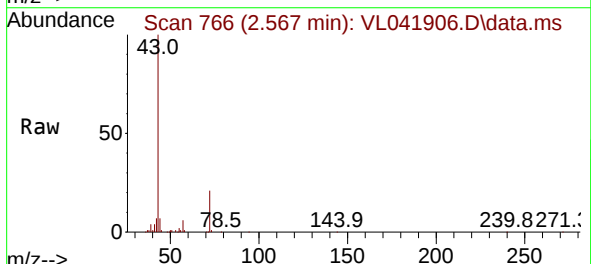
Instrument :
MSVOA_L
ClientSampleId :

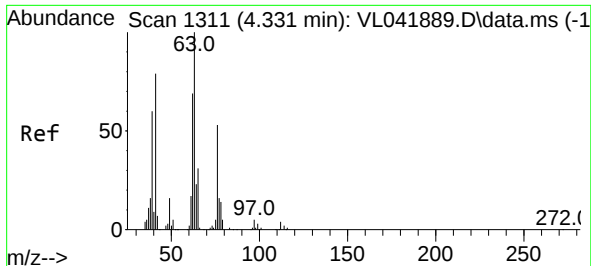
Tgt Ion:114 Resp: 396539
Ion Ratio Lower Upper
114 100
63 24.7 19.8 29.6
88 17.9 14.4 21.6



#34
2-Butanone
Concen: 1.352 ppbv
RT: 2.567 min Scan# 766
Delta R.T. -0.000 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

Tgt Ion: 43 Resp: 34092
Ion Ratio Lower Upper
43 100
72 22.1 18.6 28.0





#39

1,2-Dichloropropane

Concen: 7.685 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.363 min

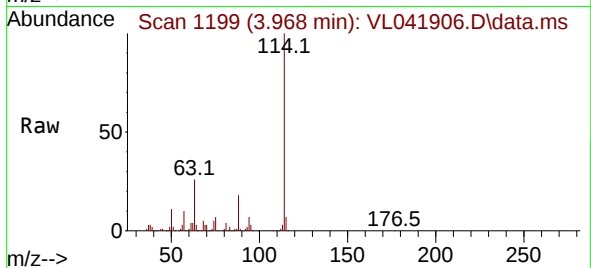
Lab File: VL041906.D

Acq: 14 Jan 2025 23:22

Instrument :

MSVOA_L

ClientSampleId :



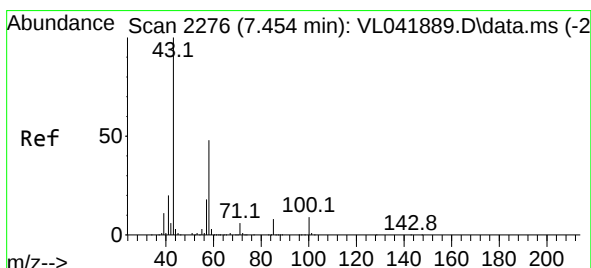
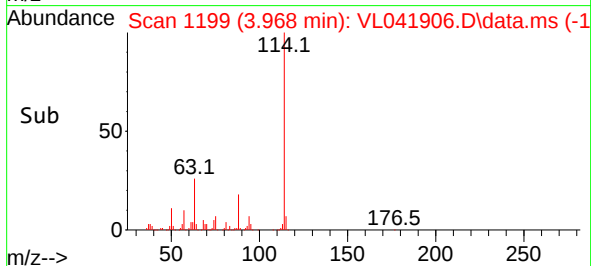
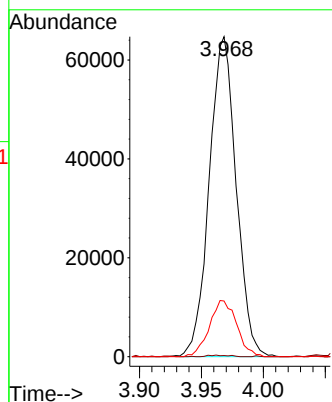
Tgt Ion: 63 Resp: 98042

Ion Ratio Lower Upper

63 100

41 0.4 63.7 95.5#

62 17.4 55.4 83.2#



#51

2-Hexanone

Concen: 0.184 ppbv

RT: 7.438 min Scan# 2271

Delta R.T. -0.016 min

Lab File: VL041906.D

Acq: 14 Jan 2025 23:22

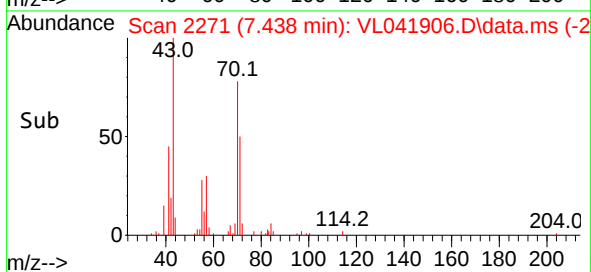
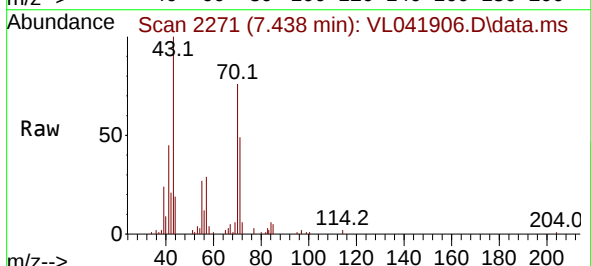
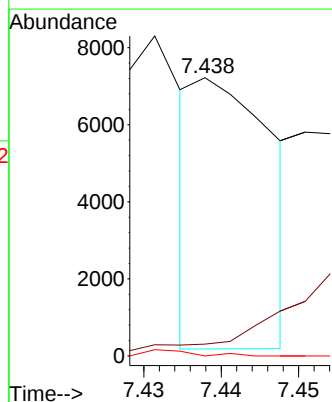
Tgt Ion: 43 Resp: 4869

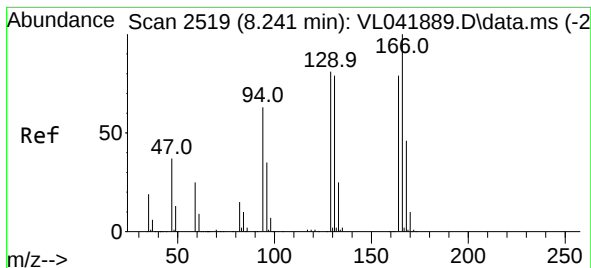
Ion Ratio Lower Upper

43 100

58 0.0 40.4 60.6#

98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 1.269 ppbv

RT: 8.237 min Scan# 2118

Delta R.T. -0.003 min

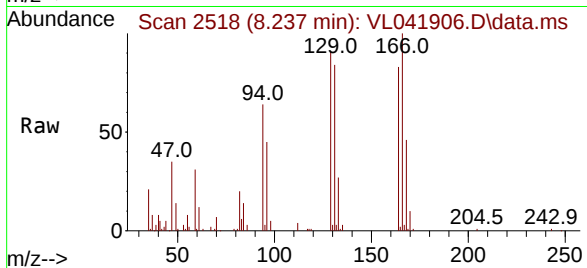
Lab File: VL041906.D

Acq: 14 Jan 2025 23:22

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 16006

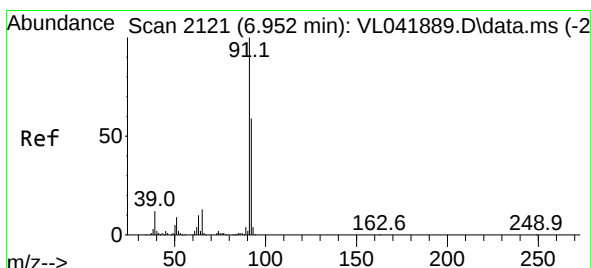
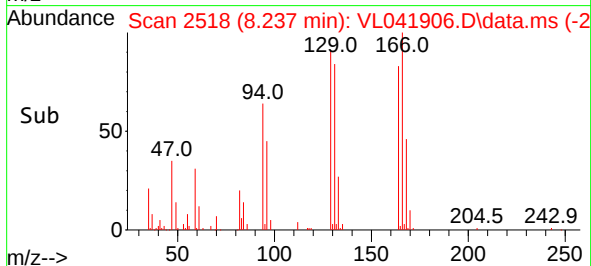
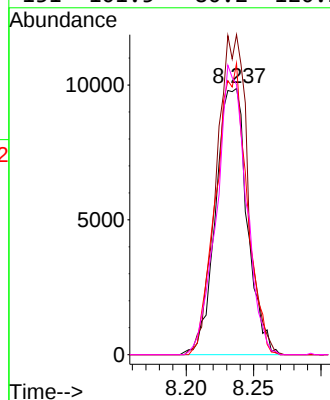
Ion Ratio Lower Upper

164 100

166 120.2 100.8 151.2

129 109.4 82.0 123.0

131 101.5 80.2 120.2



#53

Toluene

Concen: 0.321 ppbv

RT: 6.943 min Scan# 2118

Delta R.T. -0.010 min

Lab File: VL041906.D

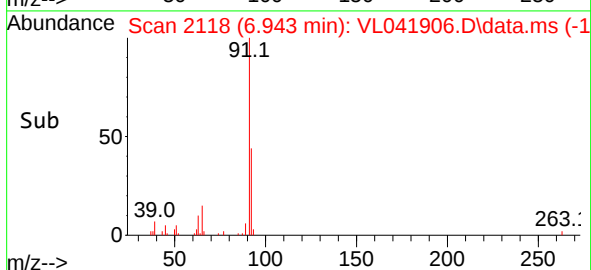
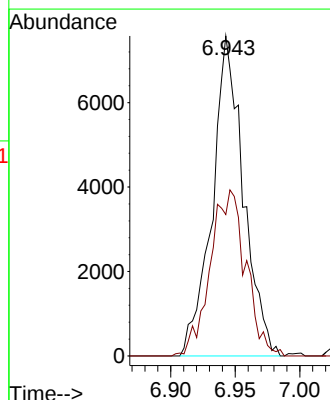
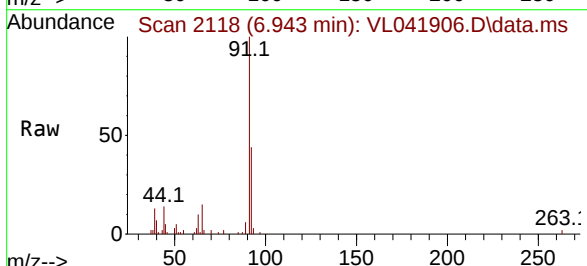
Acq: 14 Jan 2025 23:22

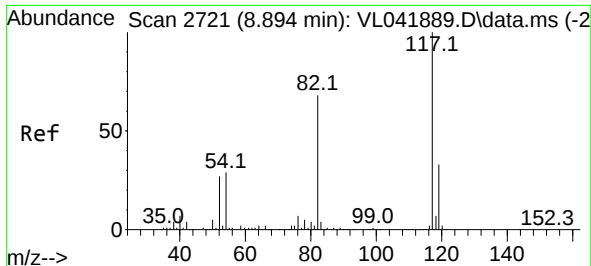
Tgt Ion: 91 Resp: 12736

Ion Ratio Lower Upper

91 100

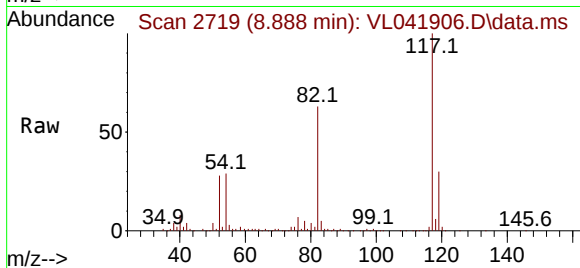
92 58.9 47.4 71.0



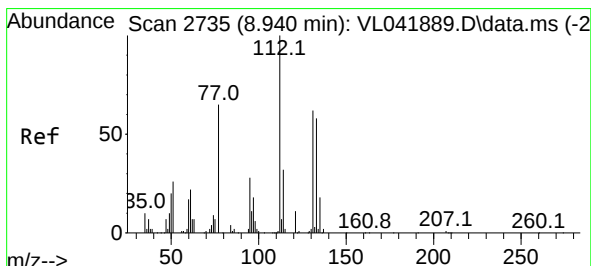
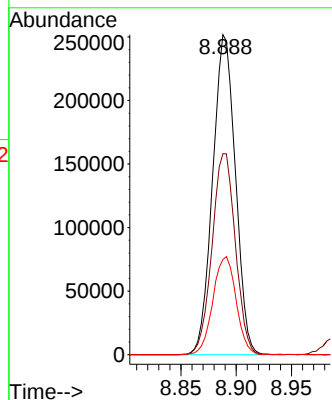
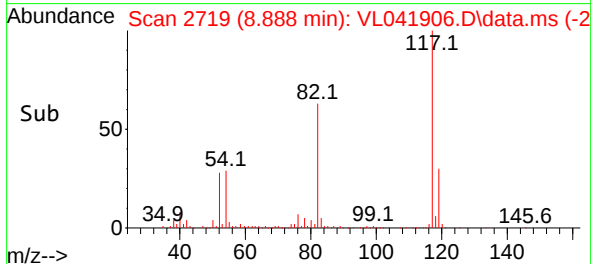


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22

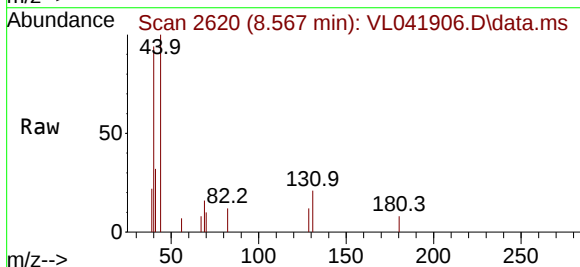
Instrument :
MSVOA_L
ClientSampleId :



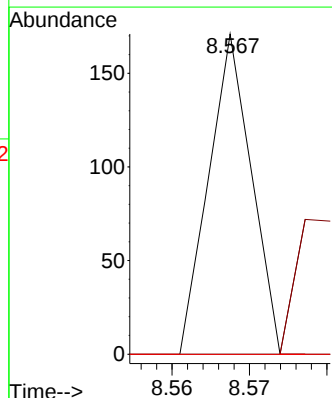
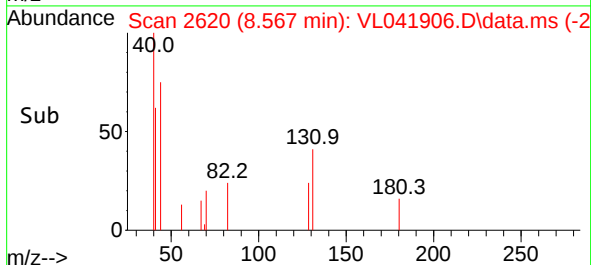
Tgt Ion:117 Resp: 360198
Ion Ratio Lower Upper
117 100
82 64.5 54.2 81.4
119 31.3 25.0 37.6

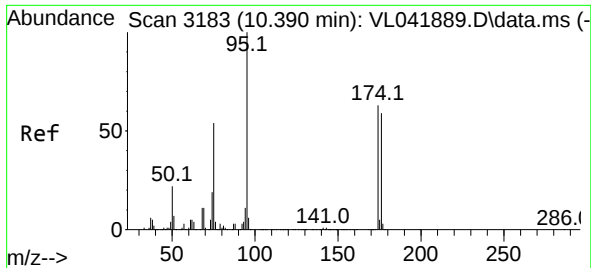


#56
1,1,1,2-Tetrachloroethane
Concen: 0.004 ppbv
RT: 8.567 min Scan# 2620
Delta R.T. -0.372 min
Lab File: VL041906.D
Acq: 14 Jan 2025 23:22



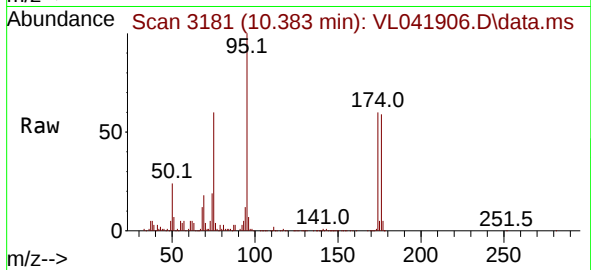
Tgt Ion:131 Resp: 66
Ion Ratio Lower Upper
131 100
133 42.4 76.0 114.0#
119 0.0 49.7 74.5#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.967 ppbv
 RT: 10.383 min Scan# 31
 Delta R.T. -0.007 min
 Lab File: VL041906.D
 Acq: 14 Jan 2025 23:22

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 282769
 Ion Ratio Lower Upper
 95 100
 174 61.0 49.0 73.4
 175 4.8 3.8 5.8

