

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041894.D
 Acq On : 14 Jan 2025 15:32
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 14 21:21:32 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 16:31:18 2025
 Response via : Initial Calibration

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

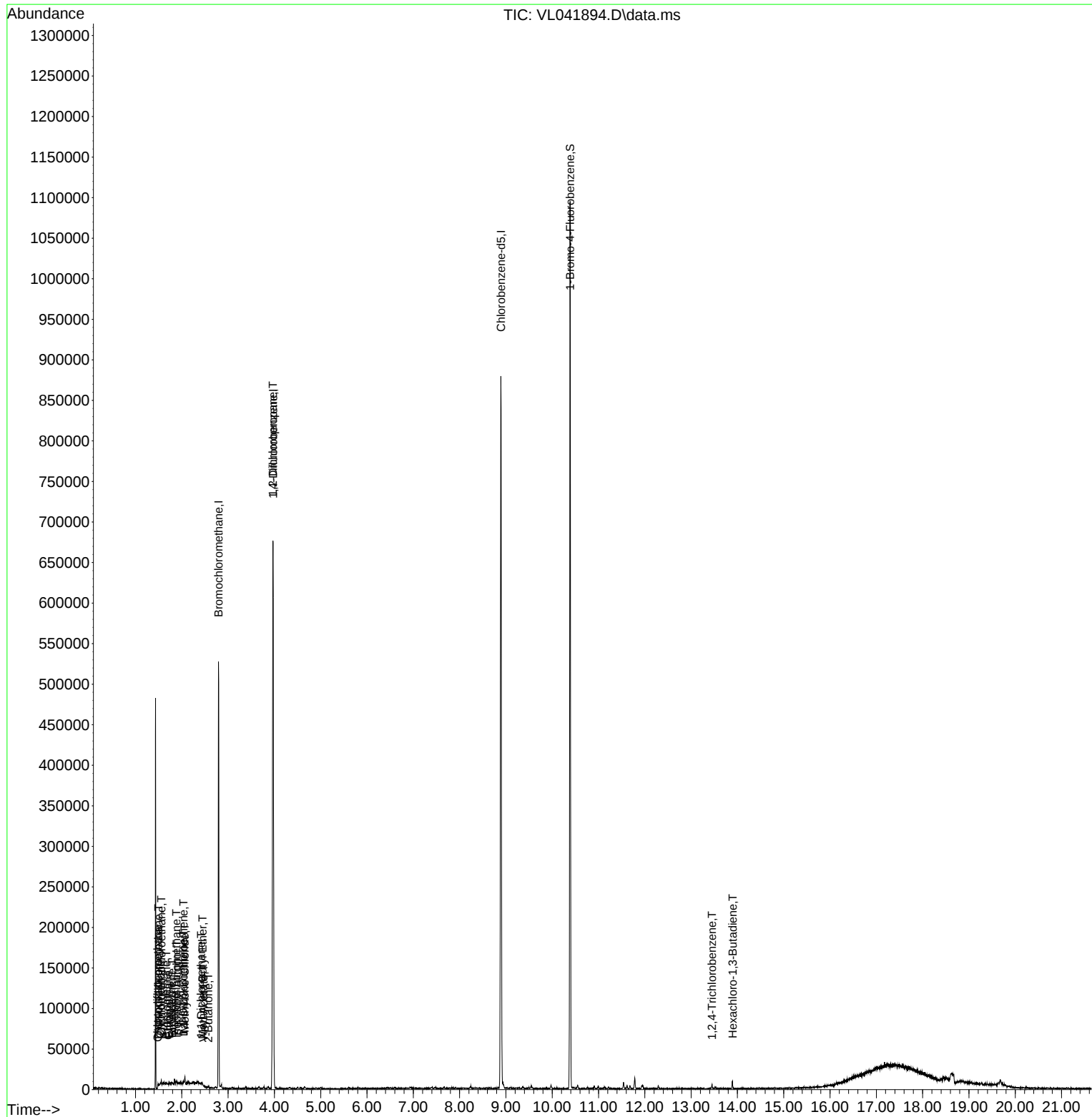
Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	635	0.033	ppbv #	77
3) Chlorodifluoromethane	1.479	51	818	0.040	ppbv	99
4) Chloromethane	1.538	50	372	0.051	ppbv #	44
6) Bromomethane	1.670	94	110	0.031	ppbv #	6
7) Chloroethane	1.706	64	112	0.039	ppbv #	43
8) Dichlorotetrafluoroethane	1.557	85	722	0.043	ppbv #	74
11) Trichlorofluoromethane	1.884	101	717	0.036	ppbv #	79
13) Ethanol	1.729	45	164	0.269	ppbv #	58
14) Bromoethene	1.787	108	211	0.037	ppbv #	1
15) Acetone	1.842	43	2053	0.121	ppbv	97
18) 1,1-Dichloroethene	2.036	96	242	0.034	ppbv	84
19) Isopropyl Alcohol	1.894	45	1393	0.138	ppbv #	32
20) Methylene Chloride	2.065	84	1205	0.179	ppbv #	85
22) trans-1,2-Dichloroethene	2.036	96	242	0.030	ppbv	92
23) Vinyl Acetate	2.473	43	320	0.043	ppbv #	32
24) 1,1-Dichloroethane	2.418	63	465	0.030	ppbv #	87
28) Methyl tert-Butyl Ether	2.447	73	454	0.033	ppbv #	71
34) 2-Butanone	2.573	43	859	0.032	ppbv #	84
39) 1,2-Dichloropropane	3.968	63	104298	7.633	ppbv #	21
78) Hexachloro-1,3-Butadiene	13.895	225	1048	0.042	ppbv	95
81) 1,2,4-Trichlorobenzene	13.452	180	978	0.038	ppbv	91

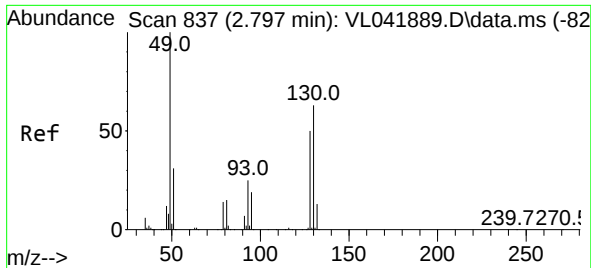
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 14 16:31:18 2025
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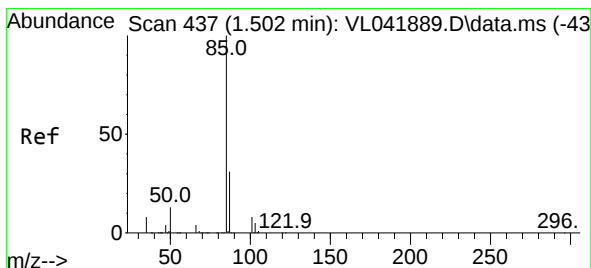
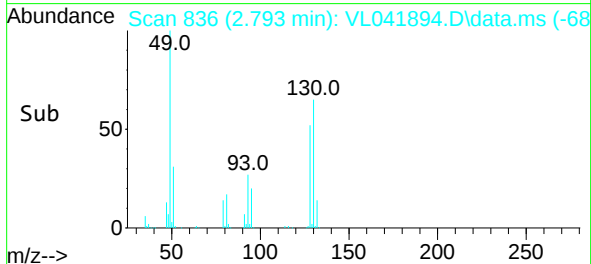
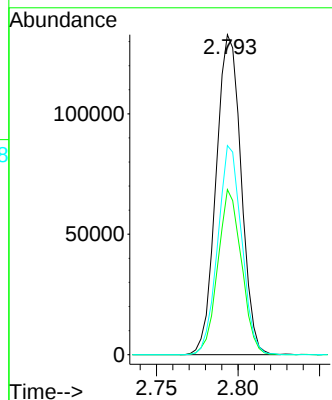
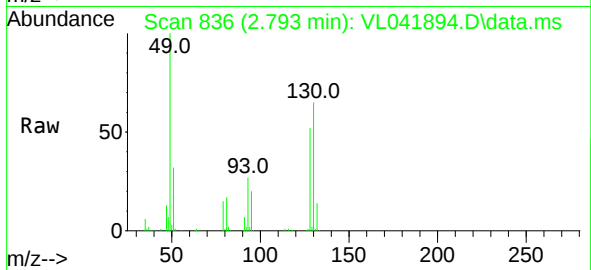




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

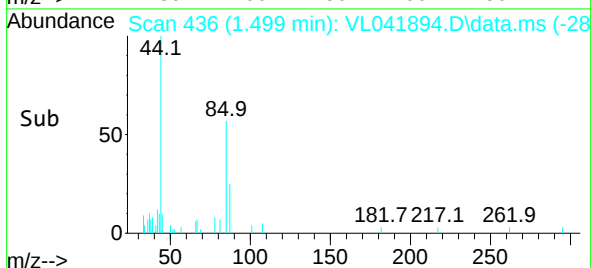
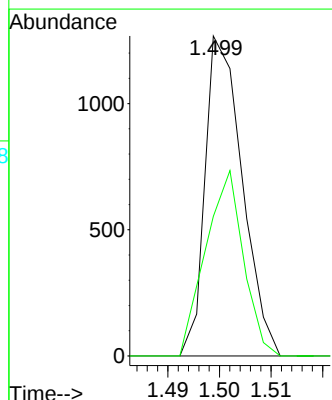
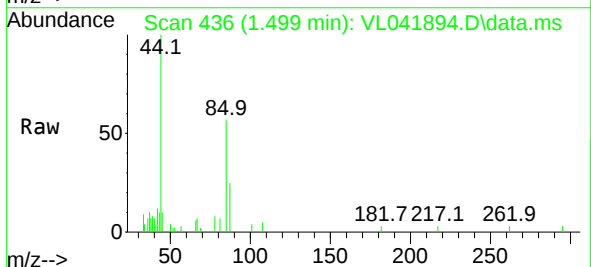
Instrument :
MSVOA_L
ClientSampleId :

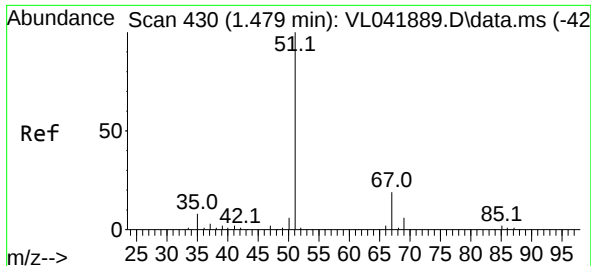
Tgt Ion: 49 Resp: 141659
Ion Ratio Lower Upper
49 100
128 48.9 24.3 73.0
130 62.4 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 85 Resp: 635
Ion Ratio Lower Upper
85 100
87 43.6 24.9 37.3#

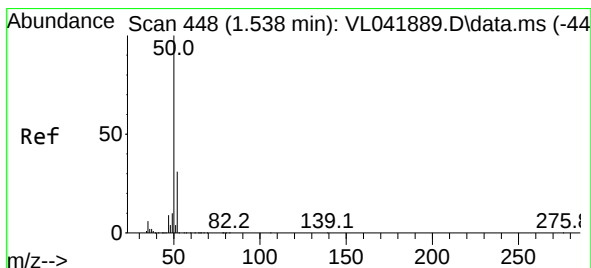
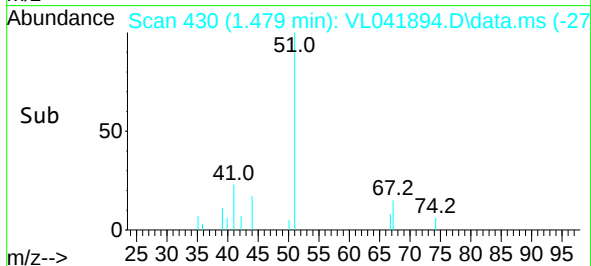
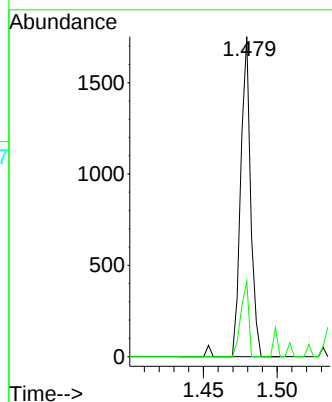
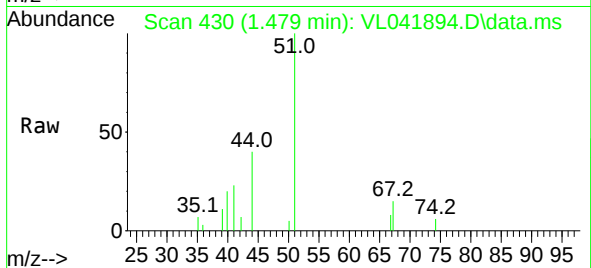




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

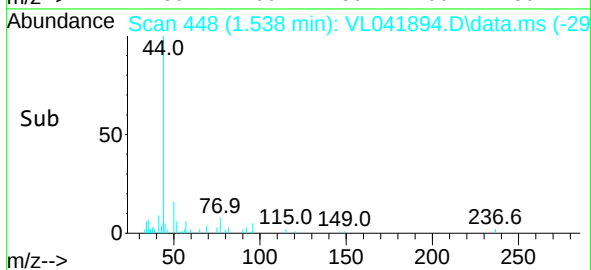
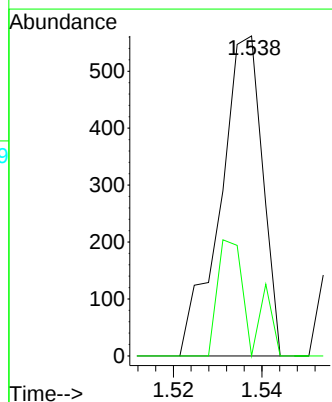
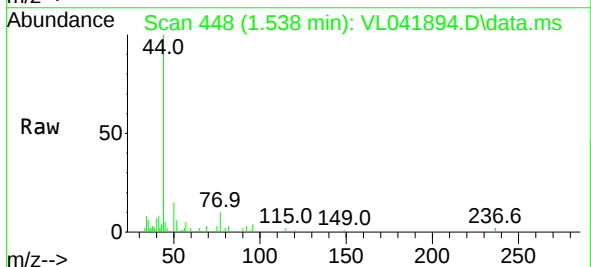
Instrument :
MSVOA_L
ClientSampleId :

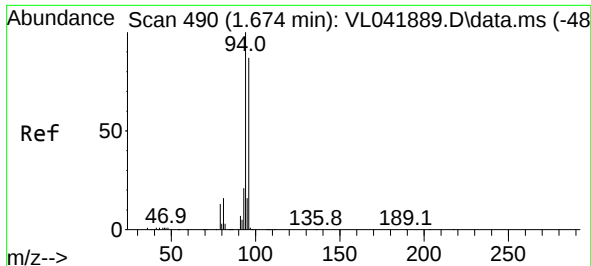
Tgt Ion: 51 Resp: 818
Ion Ratio Lower Upper
51 100
67 18.3 15.0 22.4



#4
Chloromethane
Concen: 0.051 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 50 Resp: 372
Ion Ratio Lower Upper
50 100
52 0.0 24.6 36.8#

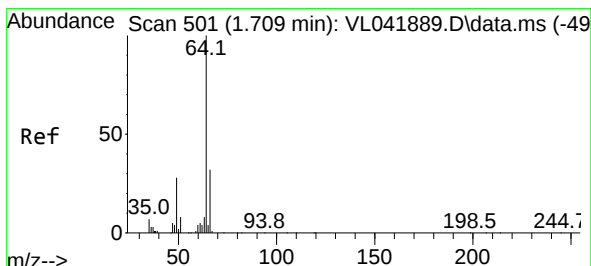
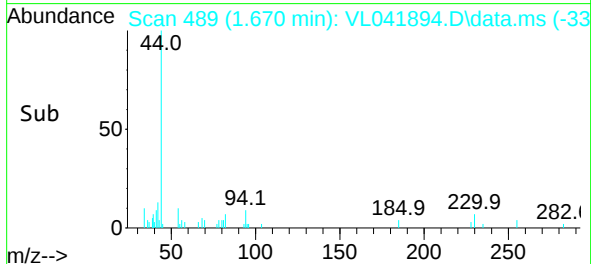
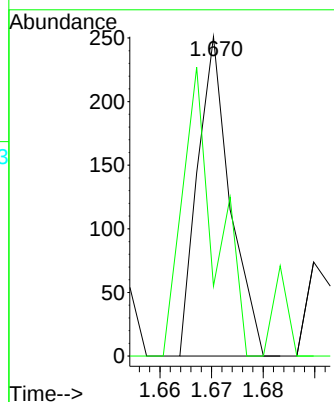
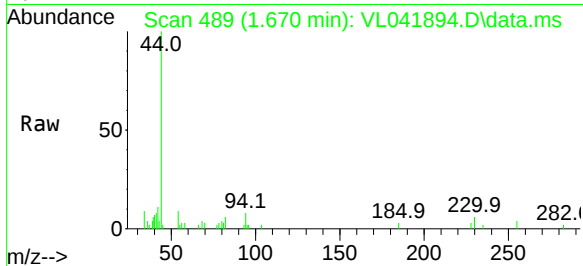




#6
 Bromomethane
 Concen: 0.031 ppbv
 RT: 1.670 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041894.D
 Acq: 14 Jan 2025 15:32

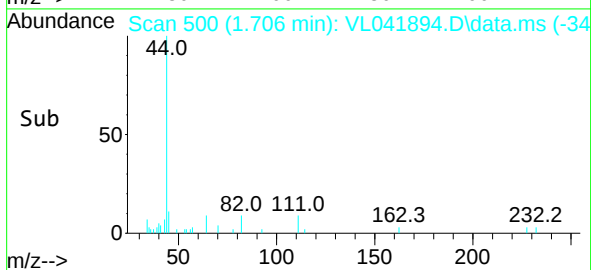
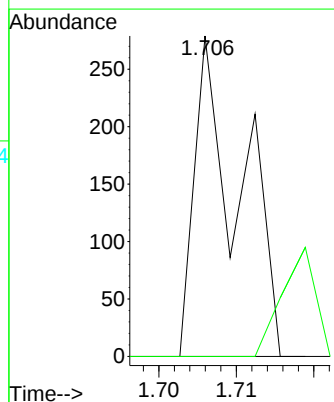
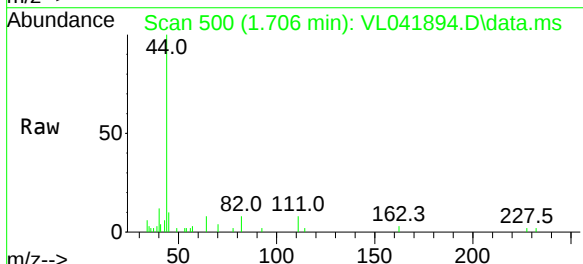
Instrument :
 MSVOA_L
 ClientSampleId :

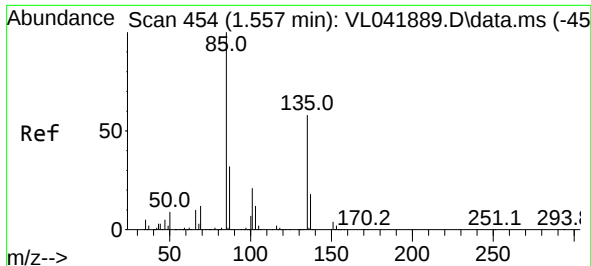
Tgt Ion: 94 Resp: 110
 Ion Ratio Lower Upper
 94 100
 96 0.0 69.5 104.3#



#7
 Chloroethane
 Concen: 0.039 ppbv
 RT: 1.706 min Scan# 500
 Delta R.T. -0.003 min
 Lab File: VL041894.D
 Acq: 14 Jan 2025 15:32

Tgt Ion: 64 Resp: 112
 Ion Ratio Lower Upper
 64 100
 66 0.0 25.7 38.5#

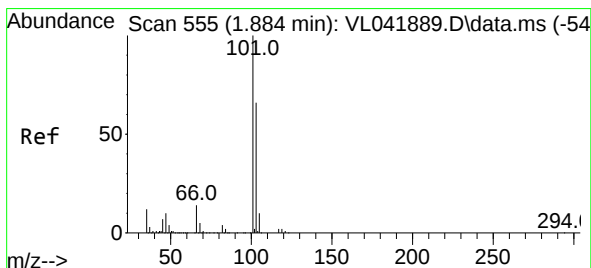
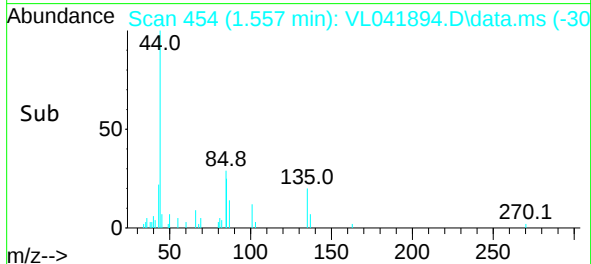
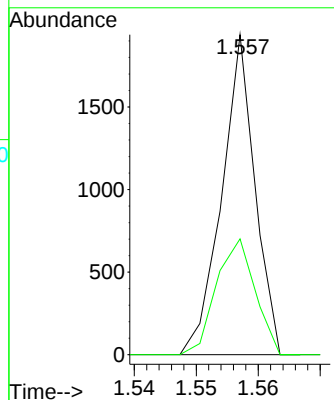
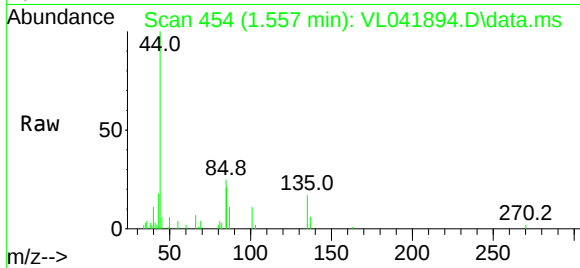




#8
 Dichlorotetrafluoroethane
 Concen: 0.043 ppbv
 RT: 1.557 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VL041894.D
 Acq: 14 Jan 2025 15:32

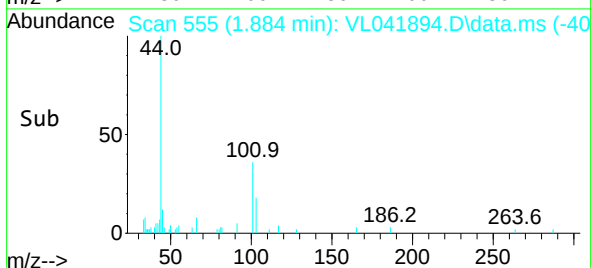
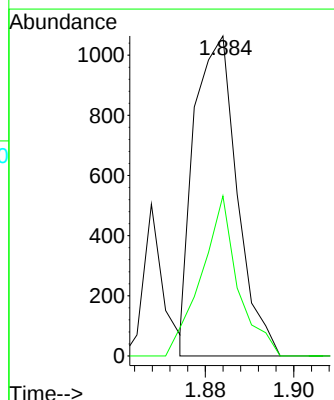
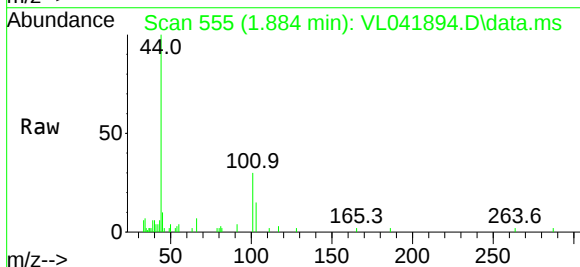
Instrument :
 MSVOA_L
 ClientSampleId :

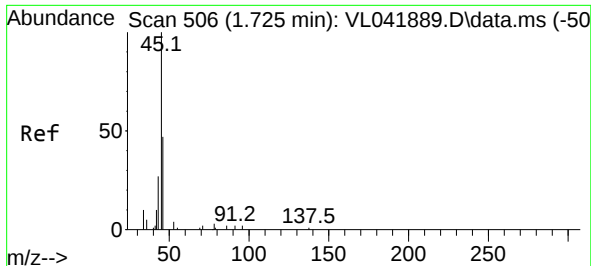
Tgt Ion: 85 Resp: 722
 Ion Ratio Lower Upper
 85 100
 135 42.2 50.0 75.0#



#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 1.884 min Scan# 555
 Delta R.T. 0.000 min
 Lab File: VL041894.D
 Acq: 14 Jan 2025 15:32

Tgt Ion:101 Resp: 717
 Ion Ratio Lower Upper
 101 100
 103 50.0 53.1 79.7#

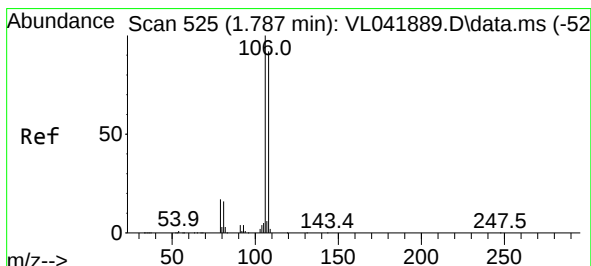
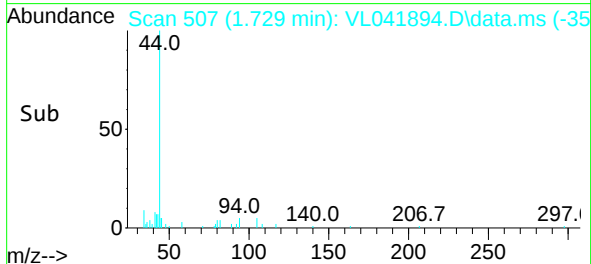
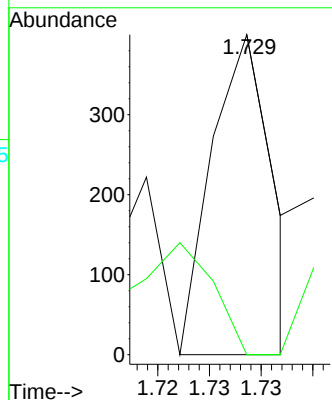
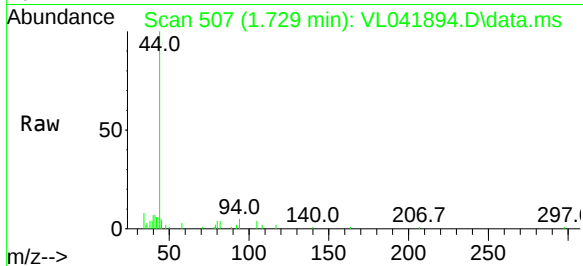




#13
Ethanol
Concen: 0.269 ppbv
RT: 1.729 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

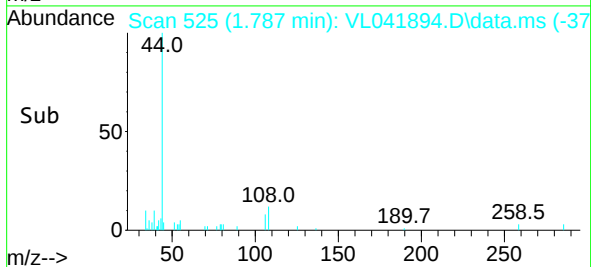
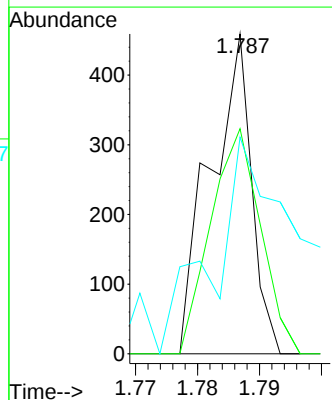
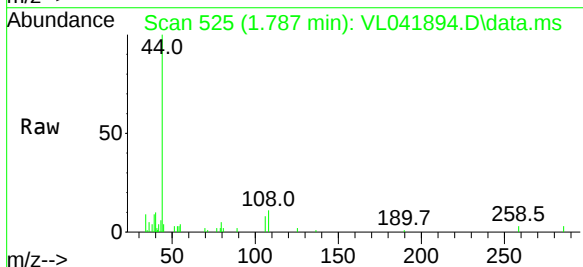
Instrument :
MSVOA_L
ClientSampleId :

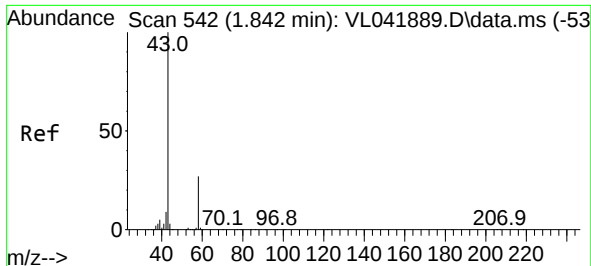
Tgt Ion: 45 Resp: 164
Ion Ratio Lower Upper
45 100
46 73.2 18.1 72.5#



#14
Bromoethene
Concen: 0.037 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.000 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 108 Resp: 211
Ion Ratio Lower Upper
108 100
106 85.8 85.5 128.3
79 317.5 15.3 22.9#

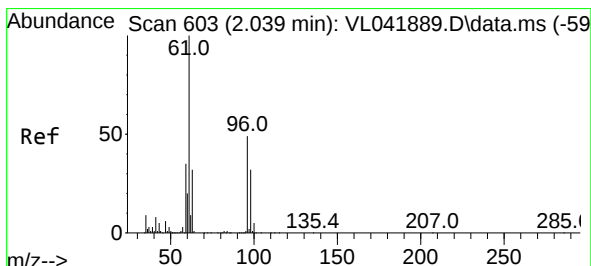
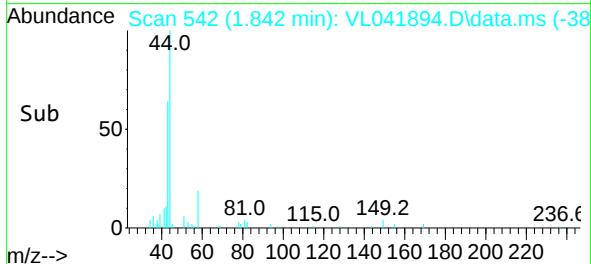
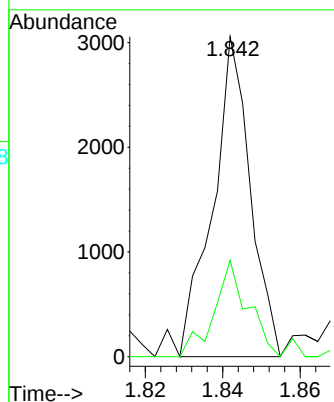
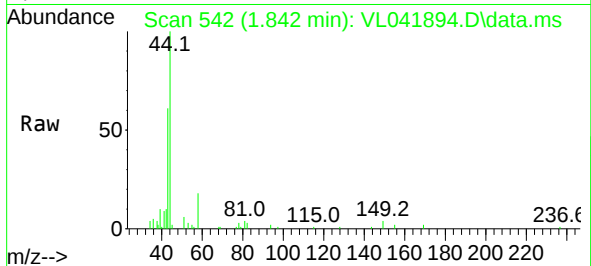




#15
Acetone
Concen: 0.121 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

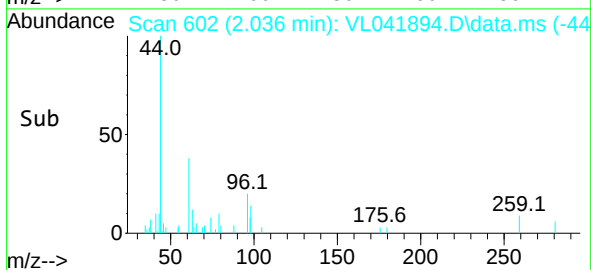
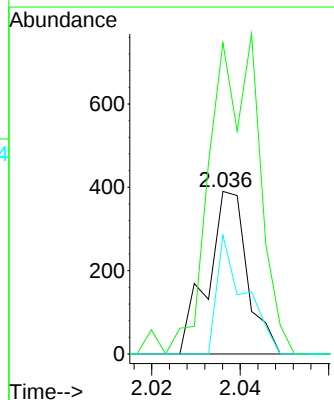
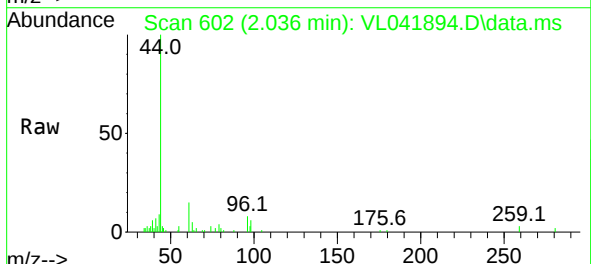
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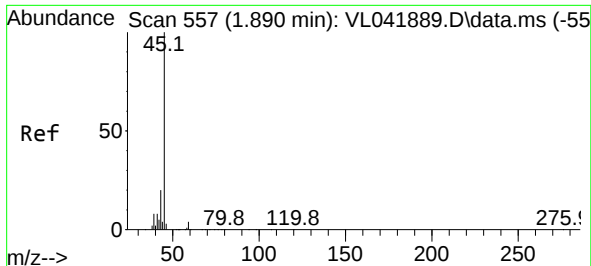
Tgt Ion: 43 Resp: 2053
Ion Ratio Lower Upper
43 100
58 28.8 21.9 32.9



#18
1,1-Dichloroethene
Concen: 0.034 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 96 Resp: 242
Ion Ratio Lower Upper
96 100
61 175.6 163.1 244.7
98 73.1 52.7 79.1

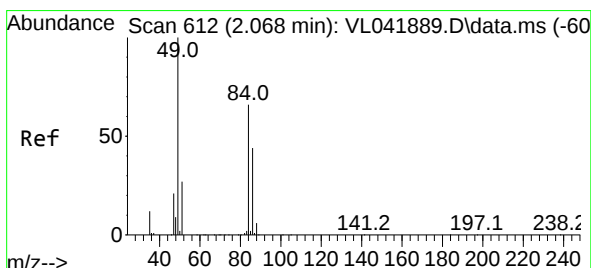
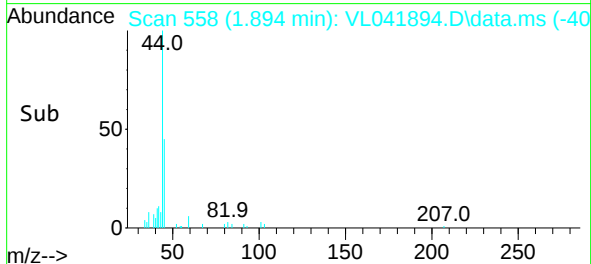
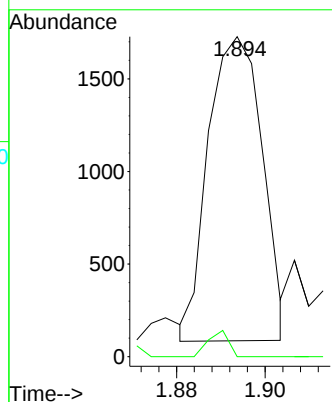
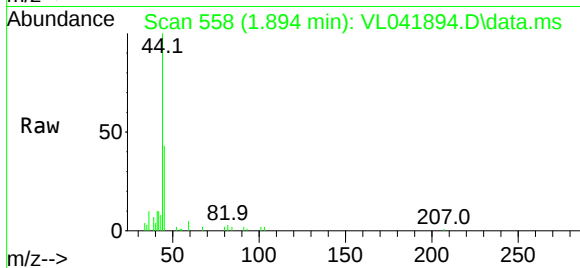




#19
Isopropyl Alcohol
Concen: 0.138 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

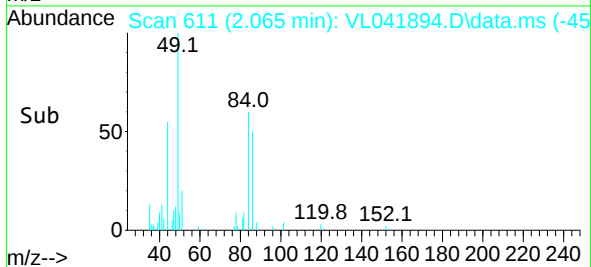
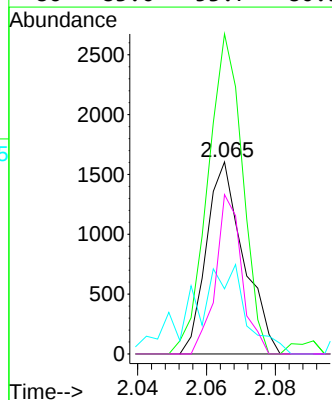
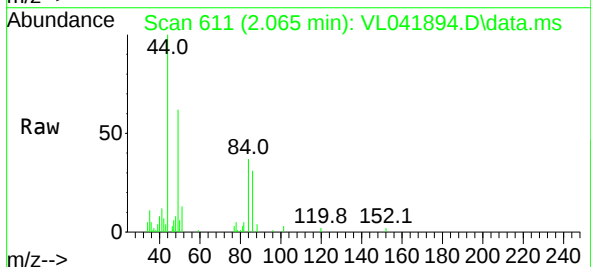
Instrument :
MSVOA_L
ClientSampleId :

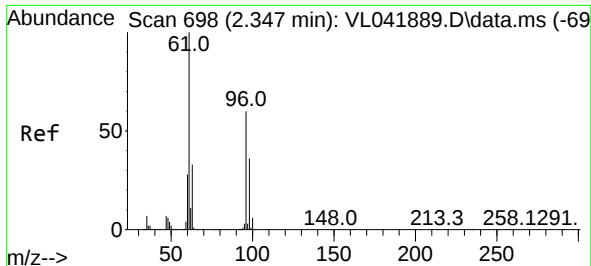
Tgt Ion: 45 Resp: 1393
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#



#20
Methylene Chloride
Concen: 0.179 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 84 Resp: 1205
Ion Ratio Lower Upper
84 100
49 166.6 123.1 184.7
51 28.3 35.8 53.8#
86 83.0 53.7 80.5#

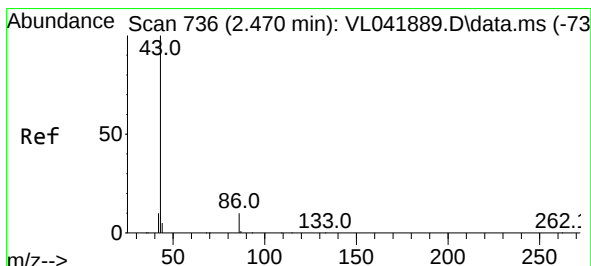
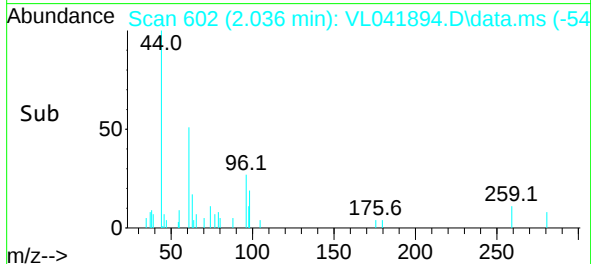
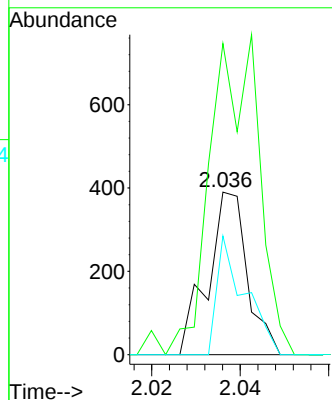
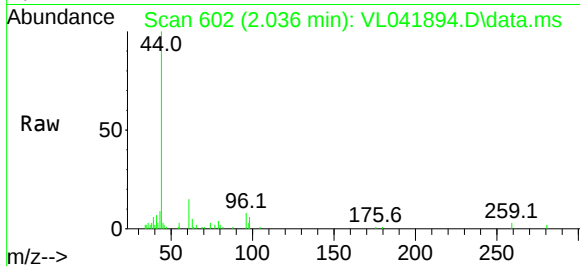




#22
trans-1,2-Dichloroethene
Concen: 0.030 ppbv
RT: 2.036 min Scan# 602
Delta R.T. -0.311 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

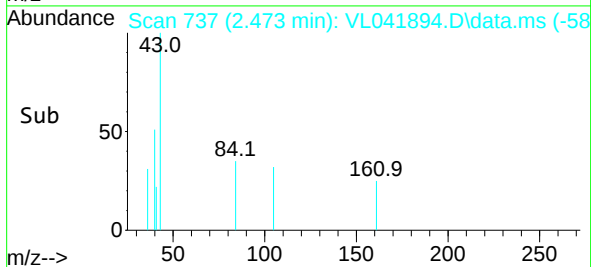
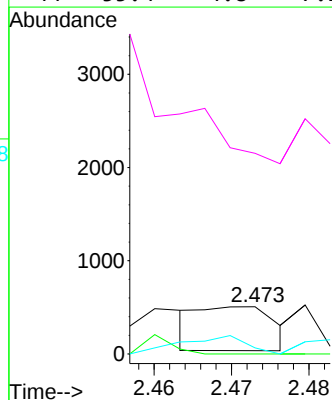
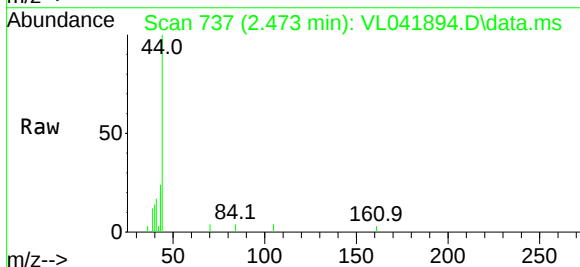
Instrument :
MSVOA_L
ClientSampleId :

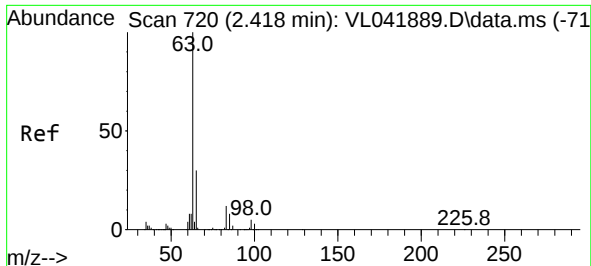
Tgt Ion: 96 Resp: 242
Ion Ratio Lower Upper
96 100
61 175.6 134.5 201.7
98 73.1 48.9 73.3



#23
Vinyl Acetate
Concen: 0.043 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 43 Resp: 320
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#
42 32.2 8.5 12.7#
44 55.4 4.8 7.2#

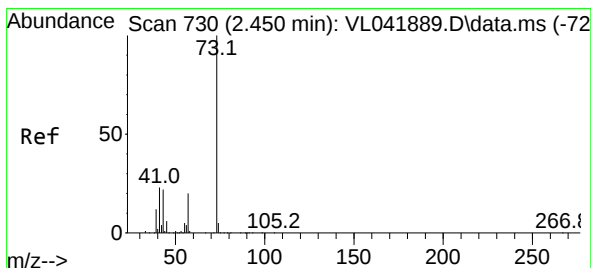
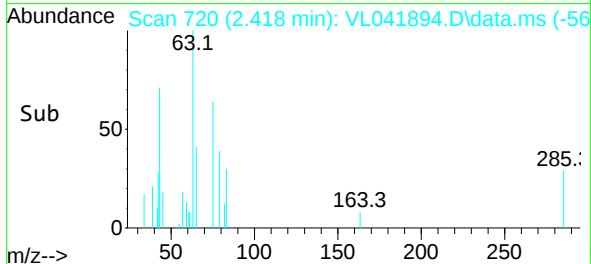
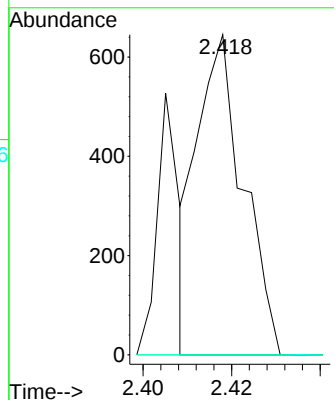
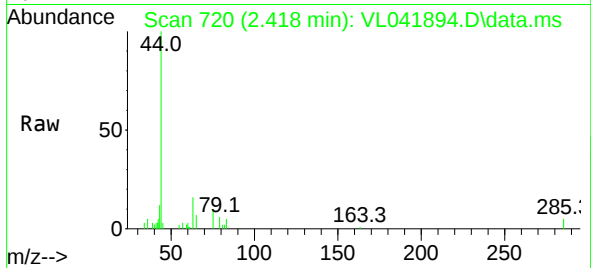




#24
1,1-Dichloroethane
Concen: 0.030 ppbv
RT: 2.418 min Scan# 719
Delta R.T. 0.000 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

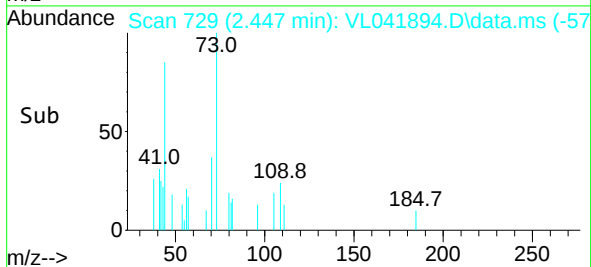
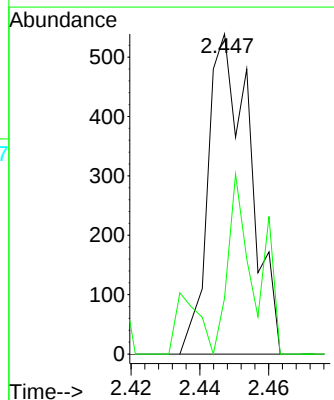
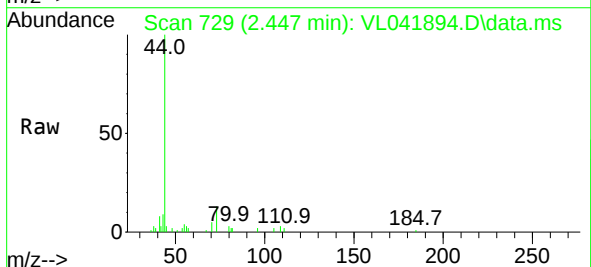
Instrument :
MSVOA_L
ClientSampleId :

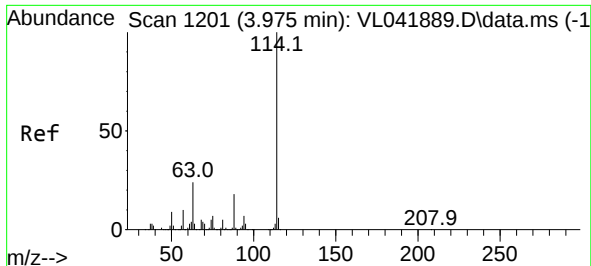
Tgt Ion: 63 Resp: 465
Ion Ratio Lower Upper
63 100
98 0.0 2.6 7.8#
100 0.0 1.4 4.2#



#28
Methyl tert-Butyl Ether
Concen: 0.033 ppbv
RT: 2.447 min Scan# 729
Delta R.T. -0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 73 Resp: 454
Ion Ratio Lower Upper
73 100
57 36.3 18.1 27.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041894.D

Acq: 14 Jan 2025 15:32

Instrument :

MSVOA_L

ClientSampleId :

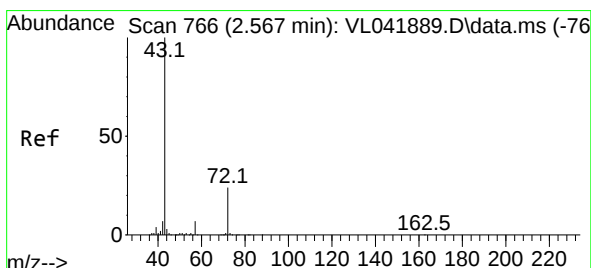
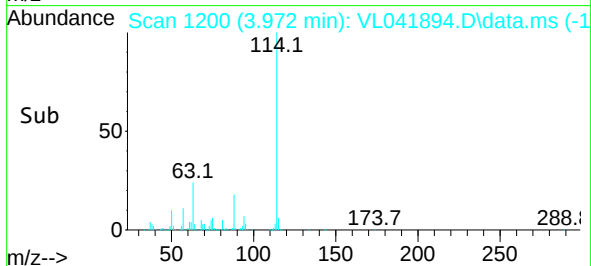
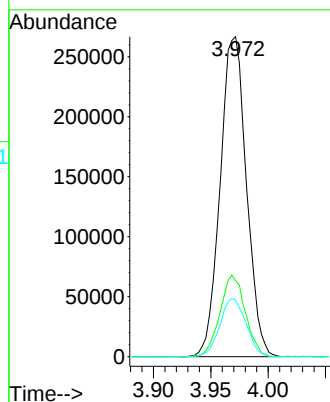
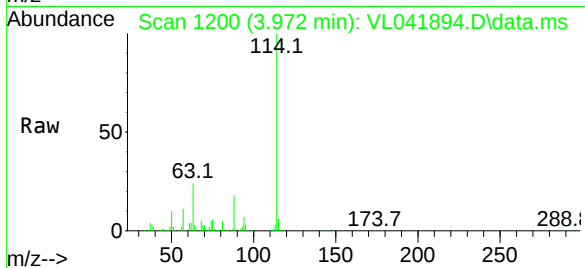
Tgt Ion:114 Resp: 424686

Ion Ratio Lower Upper

114 100

63 24.6 19.8 29.6

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.032 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.007 min

Lab File: VL041894.D

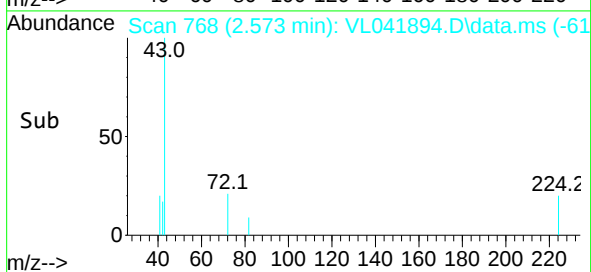
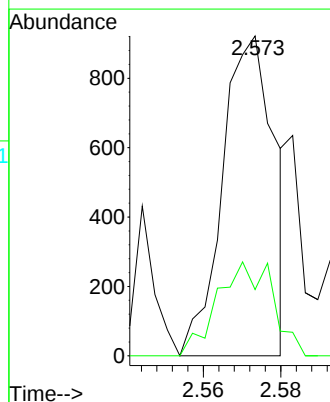
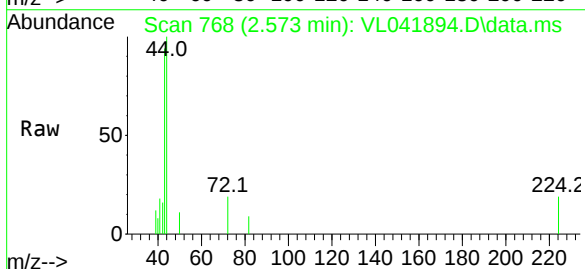
Acq: 14 Jan 2025 15:32

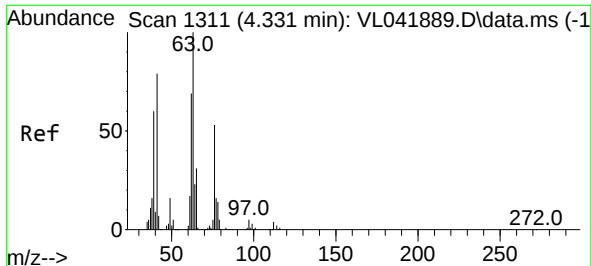
Tgt Ion: 43 Resp: 859

Ion Ratio Lower Upper

43 100

72 31.1 18.6 28.0#





#39

1,2-Dichloropropane

Concen: 7.633 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.362 min

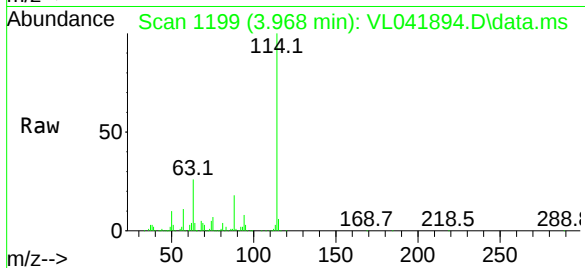
Lab File: VL041894.D

Acq: 14 Jan 2025 15:32

Instrument :

MSVOA_L

ClientSampleId :



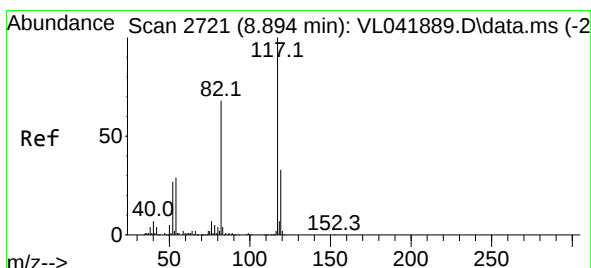
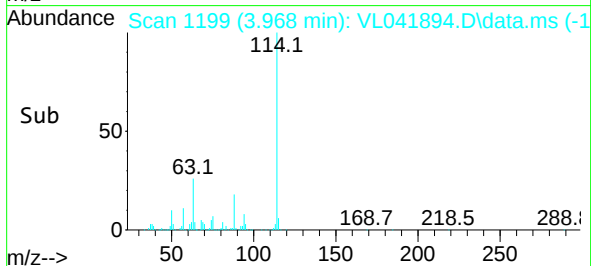
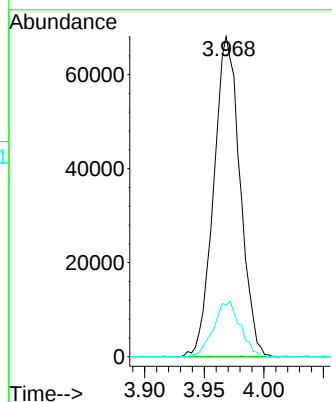
Tgt Ion: 63 Resp: 104298

Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 16.2 55.4 83.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2720

Delta R.T. -0.003 min

Lab File: VL041894.D

Acq: 14 Jan 2025 15:32

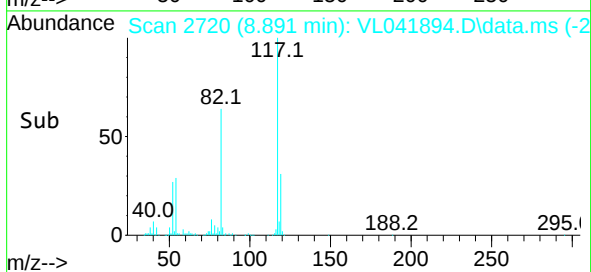
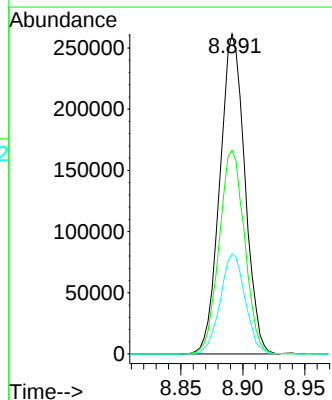
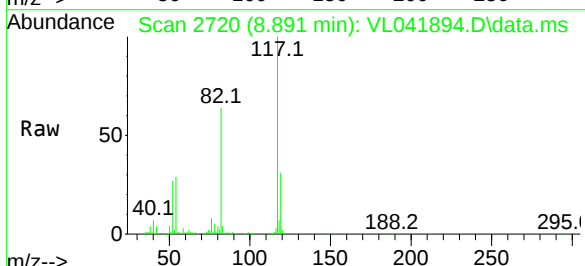
Tgt Ion: 117 Resp: 367402

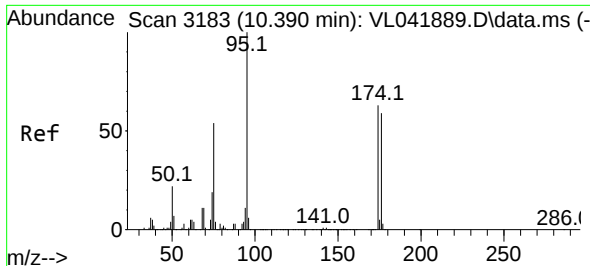
Ion Ratio Lower Upper

117 100

82 64.8 54.2 81.4

119 31.4 25.0 37.6

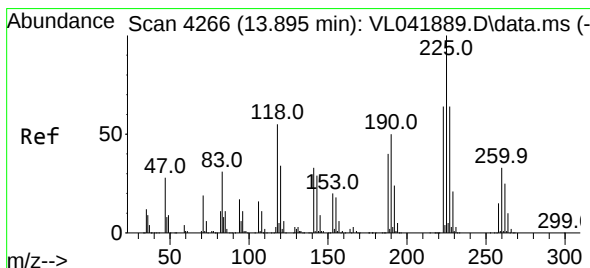
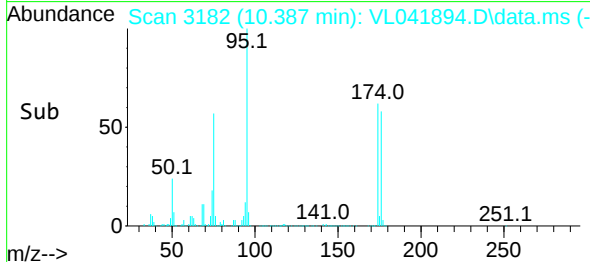
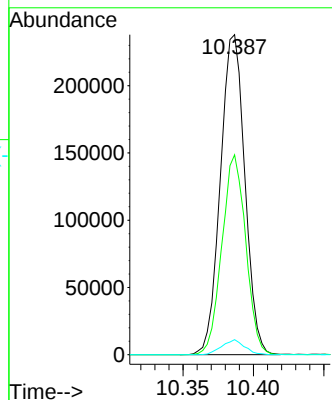
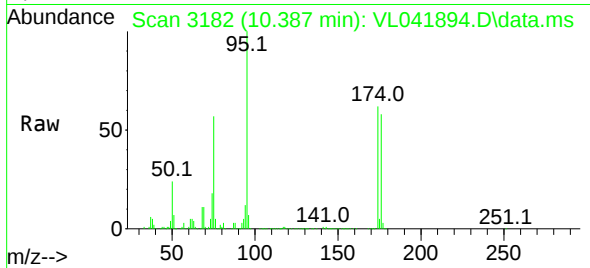




#68
1-Bromo-4-Fluorobenzene
Concen: 9.945 ppbv
RT: 10.387 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

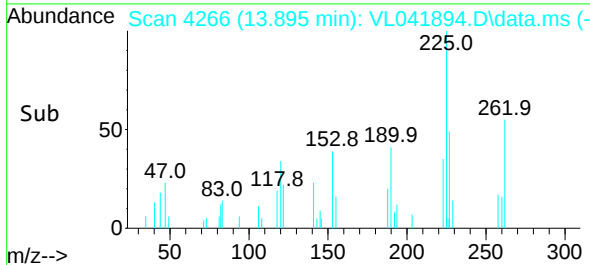
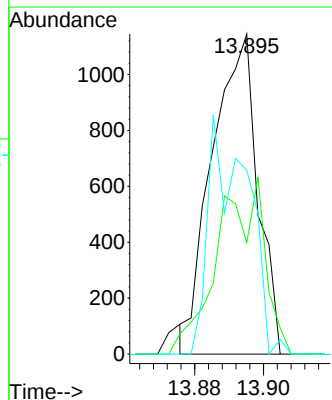
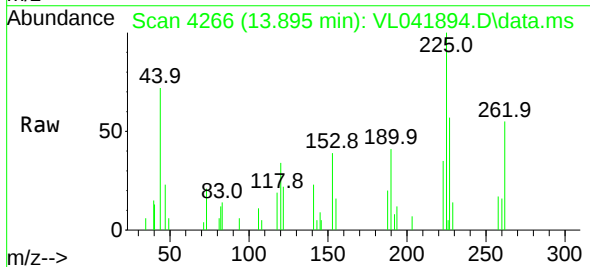
Instrument :
MSVOA_L
ClientSampleId :

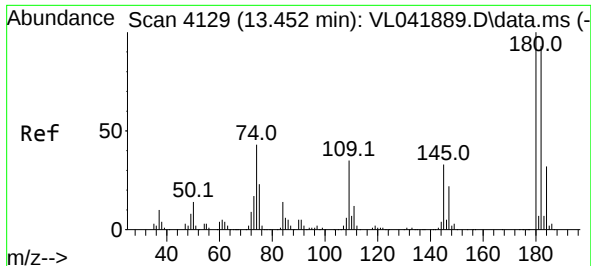
Tgt Ion: 95 Resp: 287792
Ion Ratio Lower Upper
95 100
174 60.9 49.0 73.4
175 4.4 3.8 5.8



#78
Hexachloro-1,3-Butadiene
Concen: 0.042 ppbv
RT: 13.895 min Scan# 4266
Delta R.T. 0.000 min
Lab File: VL041894.D
Acq: 14 Jan 2025 15:32

Tgt Ion: 225 Resp: 1048
Ion Ratio Lower Upper
225 100
223 56.5 50.8 76.2
227 64.3 50.3 75.5





#81

1,2,4-Trichlorobenzene

Concen: 0.038 ppbv

RT: 13.452 min Scan# 41

Delta R.T. 0.000 min

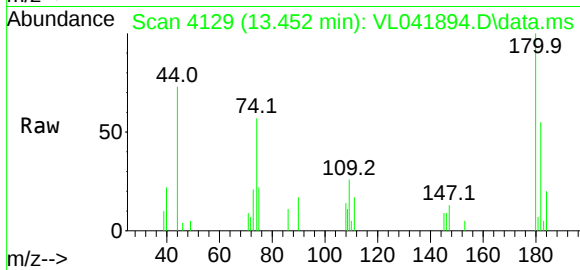
Lab File: VL041894.D

Acq: 14 Jan 2025 15:32

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 978

Ion Ratio Lower Upper

180 100

182 106.0 77.0 115.6

184 27.7 24.9 37.3

