

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021125\
 Data File : VL041999.D
 Acq On : 11 Feb 2025 12:13
 Operator : SY/MD
 Sample : Q1342-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Feb 11 22:19:06 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)

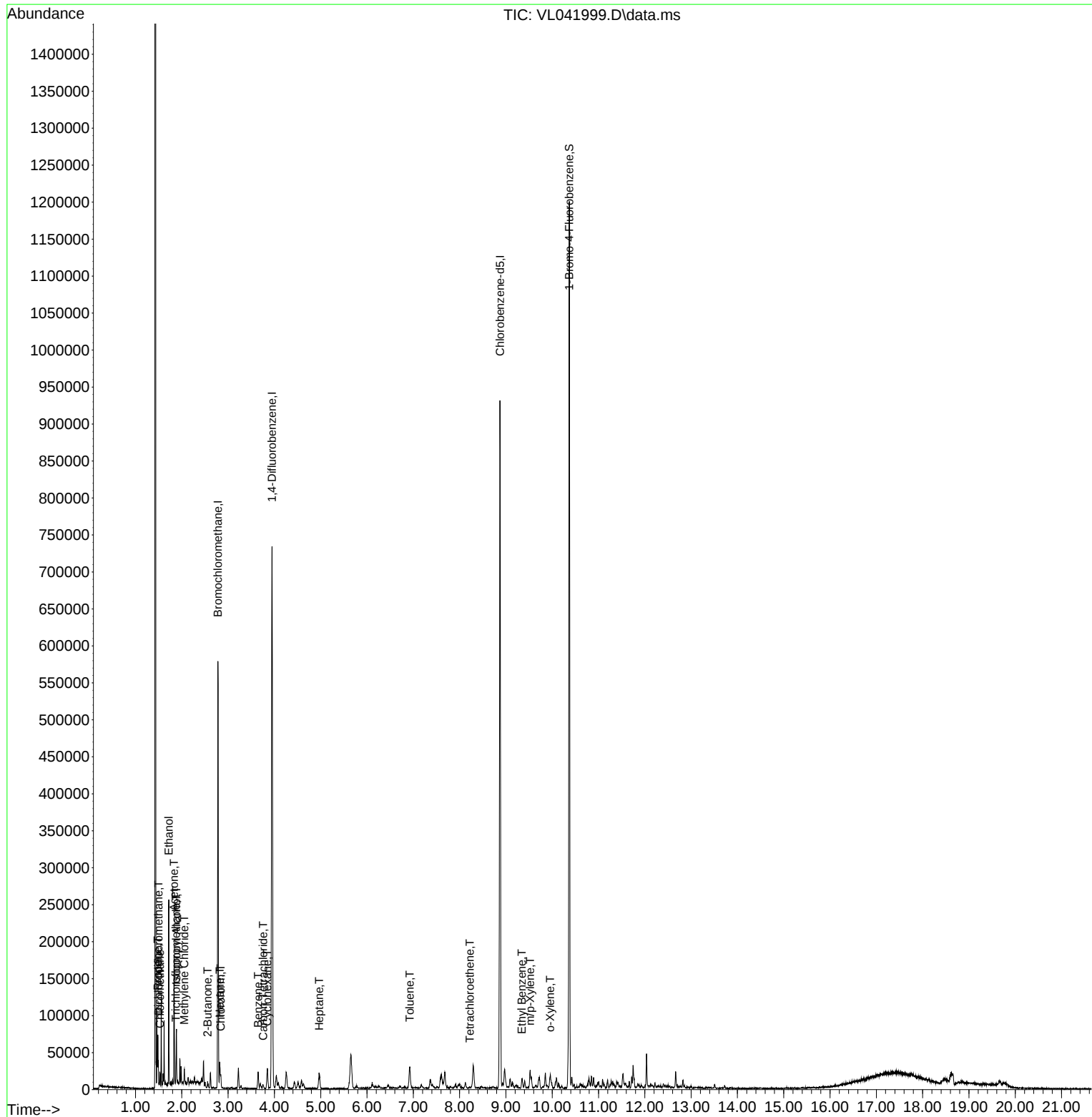
Internal Standards							
1) Bromochloromethane		2.781	49	160589	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene		3.949	114	441083	10.000	ppbv	-0.03
55) Chlorobenzene-d5		8.872	117	384736	10.000	ppbv	-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.367	95	312912	10.326	ppbv	-0.02
Spiked Amount		10.000	Range 65 - 135		Recovery	= 103.300%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane		1.496	85	7925	0.362	ppbv	96
4) Chloromethane		1.528	50	4443	0.540	ppbv #	88
9) Propene		1.483	41	6464	0.685	ppbv #	83
10) Heptane		4.969	43	7343	0.291	ppbv	90
11) Trichlorofluoromethane		1.874	101	4406	0.194	ppbv	97
13) Ethanol		1.719	45	86592	125.235	ppbv	87
15) Acetone		1.832	43	73259	3.798	ppbv	98
19) Isopropyl Alcohol		1.884	45	29516	2.581	ppbv #	67
20) Methylene Chloride		2.056	84	2278	0.299	ppbv #	80
26) Hexane		2.819	57	6855	0.333	ppbv #	48
29) Chloroform		2.839	83	5378	0.165	ppbv	85
30) Cyclohexane		3.845	84	5631m	0.316	ppbv	
34) 2-Butanone		2.557	43	5095	0.182	ppbv	97
35) Carbon Tetrachloride		3.755	117	1650	0.060	ppbv	92
36) Benzene		3.648	78	13219	0.327	ppbv	95
52) Tetrachloroethene		8.221	164	465m	0.033	ppbv	
53) Toluene		6.924	91	21354	0.485	ppbv	100
58) Ethyl Benzene		9.345	91	5964	0.099	ppbv	95
59) m/p-Xylene		9.523	91	13923	0.289	ppbv	93
60) o-Xylene		9.956	91	6356	0.133	ppbv	93

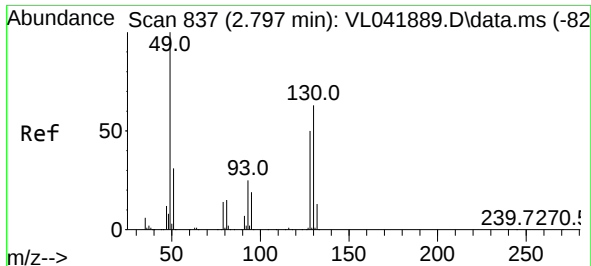
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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Response via : Initial Calibration

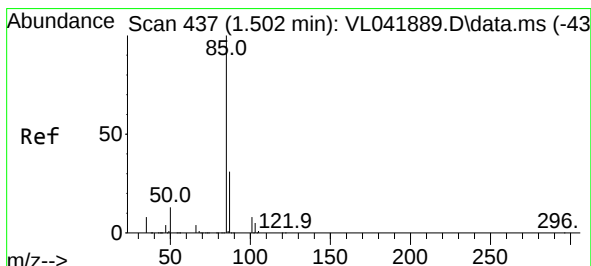
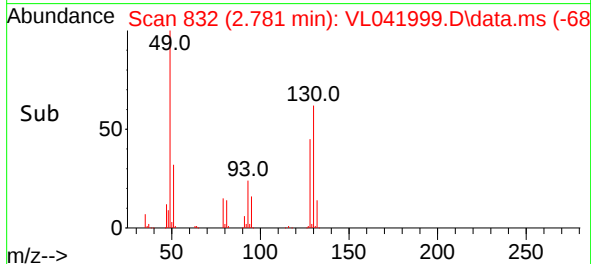
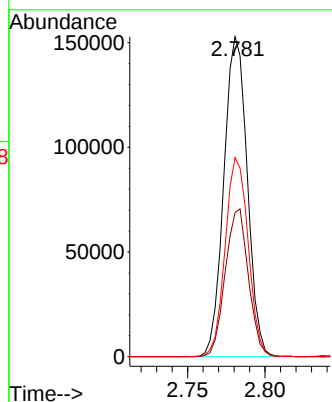
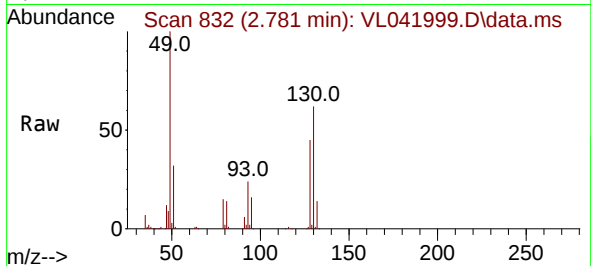




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 81
 Delta R.T. -0.016 min
 Lab File: VL041999.D
 Acq: 11 Feb 2025 12:13

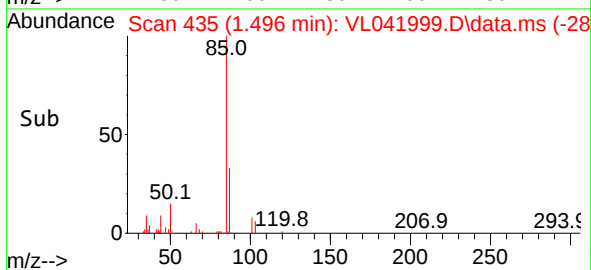
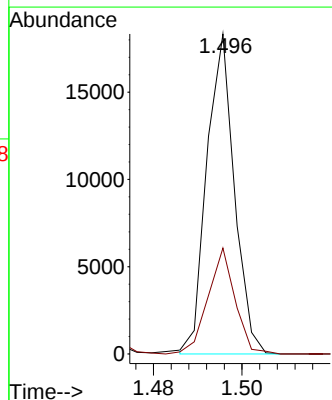
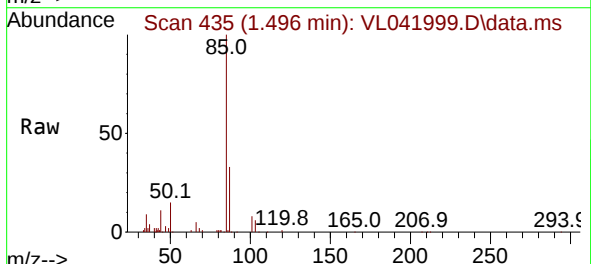
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

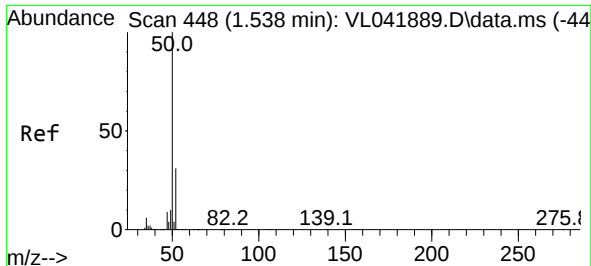
Tgt Ion: 49 Resp: 160589
 Ion Ratio Lower Upper
 49 100
 128 45.7 24.3 73.0
 130 61.1 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.362 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.006 min
 Lab File: VL041999.D
 Acq: 11 Feb 2025 12:13

Tgt Ion: 85 Resp: 7925
 Ion Ratio Lower Upper
 85 100
 87 33.1 24.9 37.3

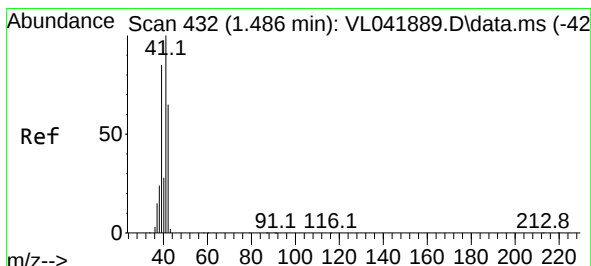
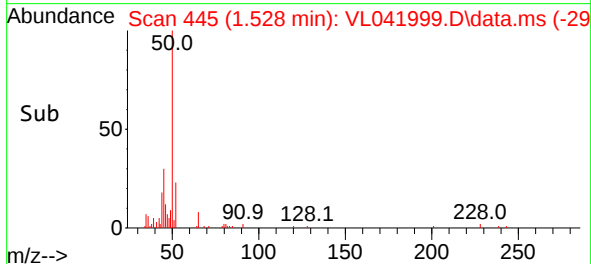
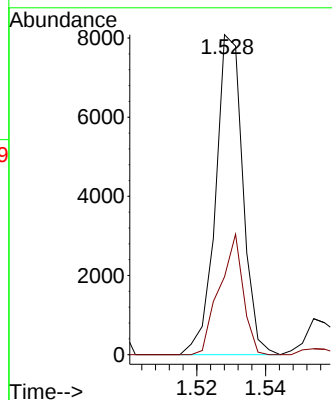
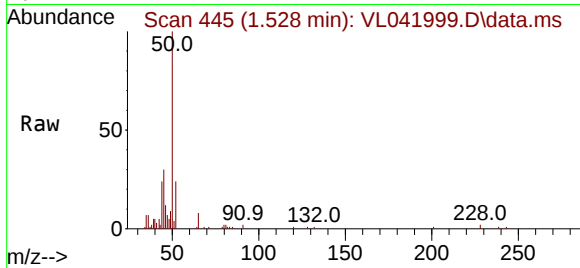




#4
Chloromethane
Concen: 0.540 ppbv
RT: 1.528 min Scan# 448
Delta R.T. -0.010 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

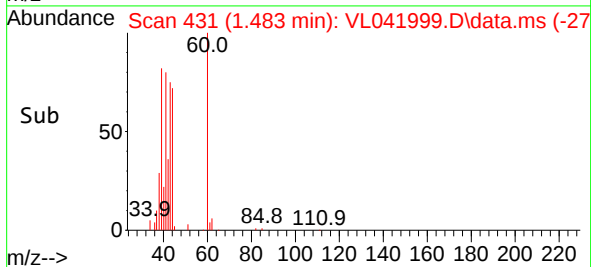
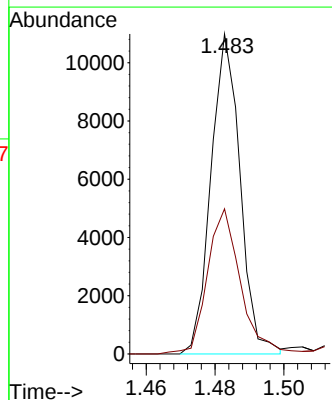
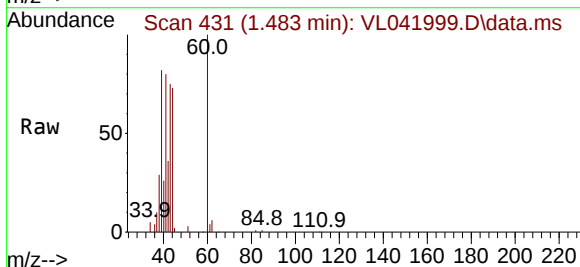
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

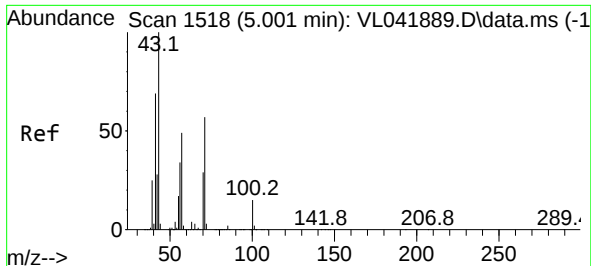
Tgt Ion: 50 Resp: 4443
Ion Ratio Lower Upper
50 100
52 24.4 24.6 36.8#



#9
Propene
Concen: 0.685 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 41 Resp: 6464
Ion Ratio Lower Upper
41 100
42 51.5 52.0 78.0#

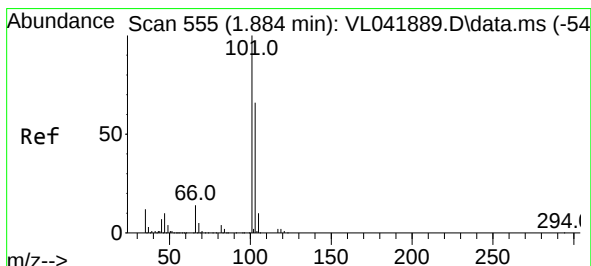
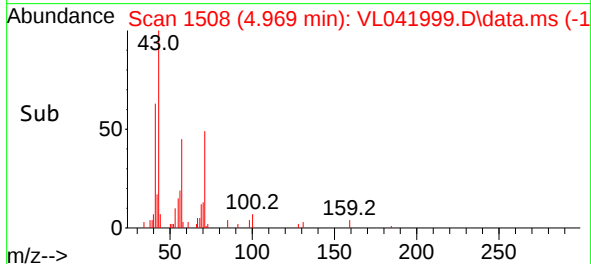
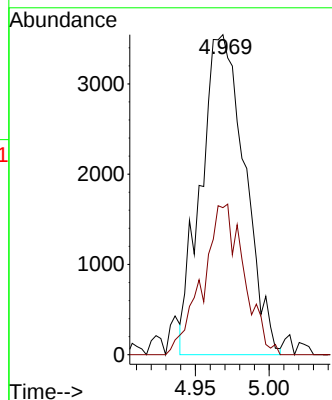
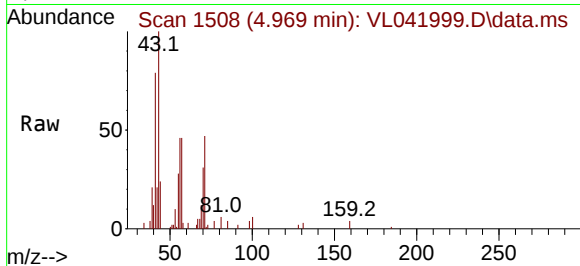




#10
Heptane
Concen: 0.291 ppbv
RT: 4.969 min Scan# 1518
Delta R.T. -0.032 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

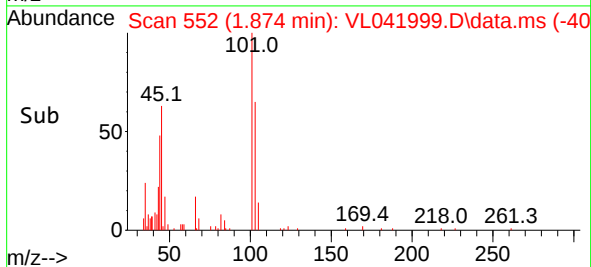
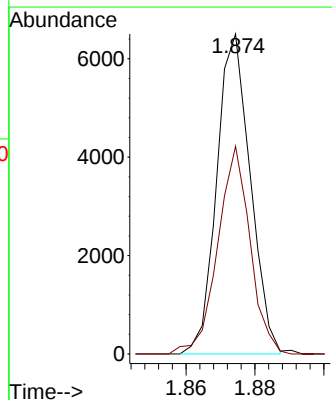
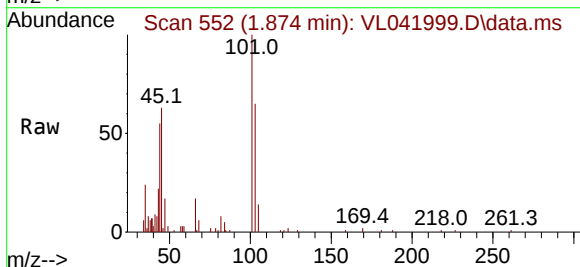
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

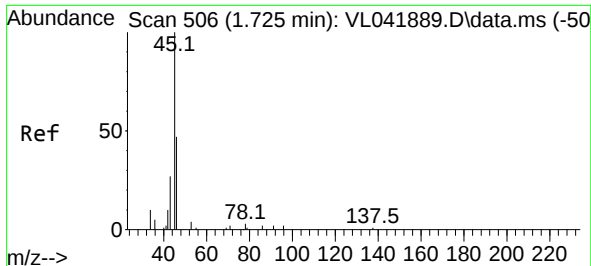
Tgt Ion: 43 Resp: 7343
Ion Ratio Lower Upper
43 100
57 44.1 41.0 61.4



#11
Trichlorofluoromethane
Concen: 0.194 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.010 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 101 Resp: 4406
Ion Ratio Lower Upper
101 100
103 64.0 53.1 79.7

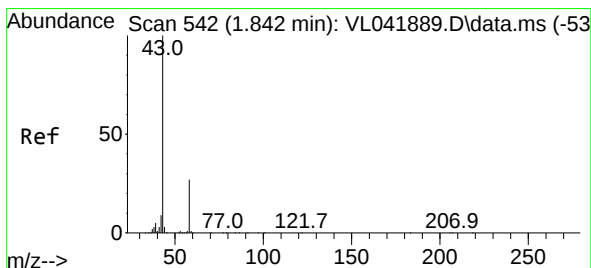
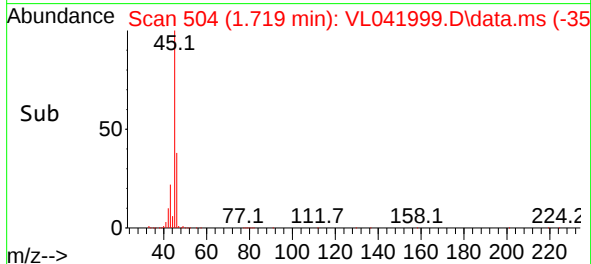
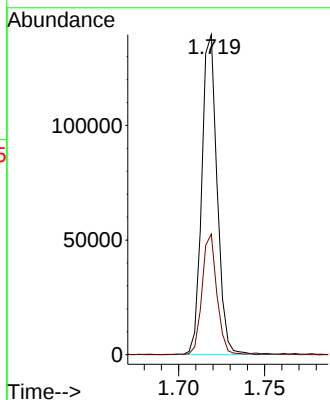
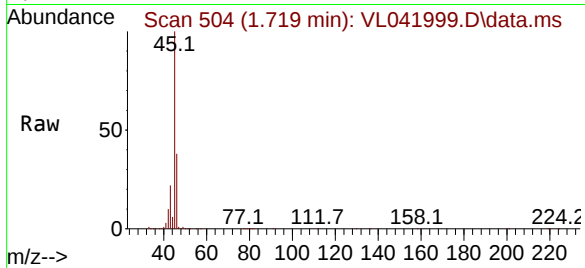




#13
Ethanol
Concen: 125.235 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

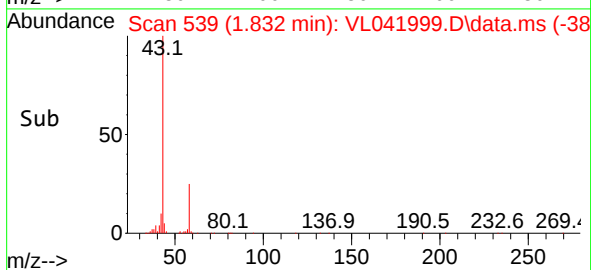
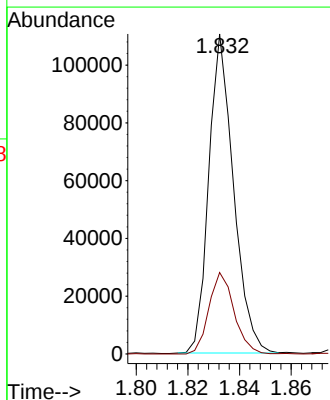
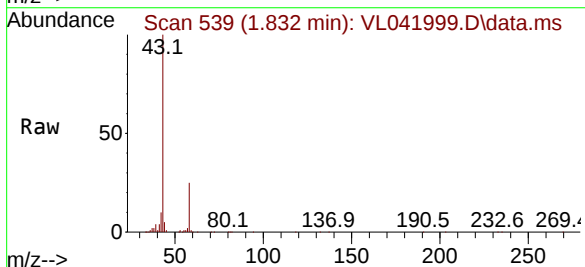
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

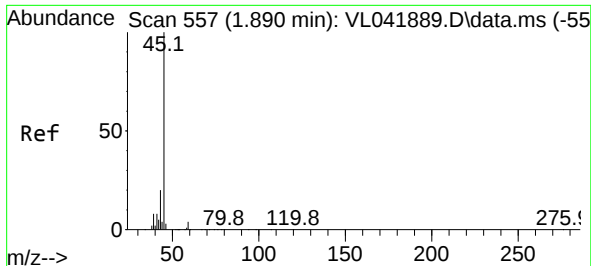
Tgt Ion: 45 Resp: 86592
Ion Ratio Lower Upper
45 100
46 36.7 18.1 72.5



#15
Acetone
Concen: 3.798 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 43 Resp: 73259
Ion Ratio Lower Upper
43 100
58 26.1 21.9 32.9

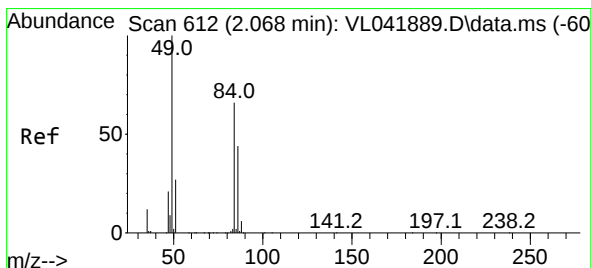
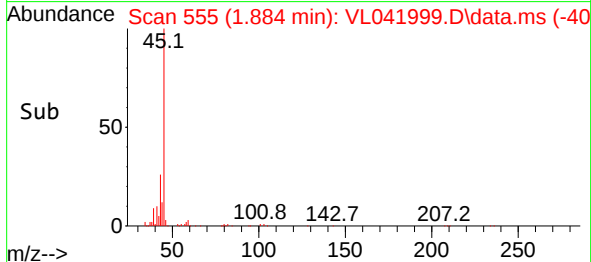
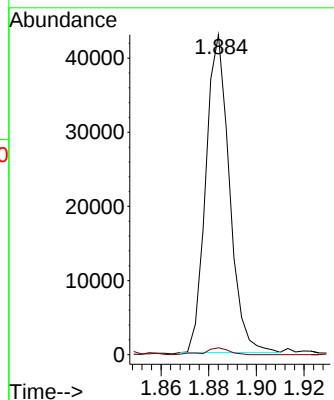
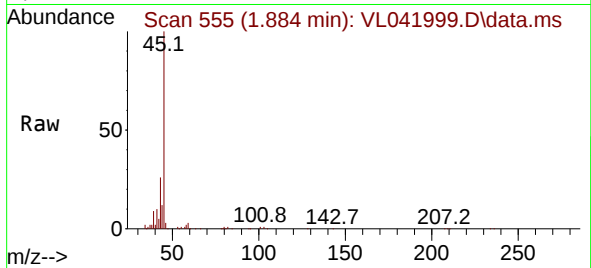




#19
Isopropyl Alcohol
Concen: 2.581 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

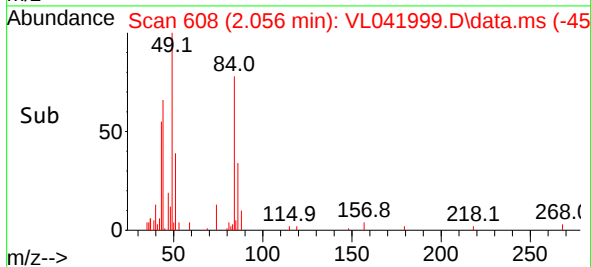
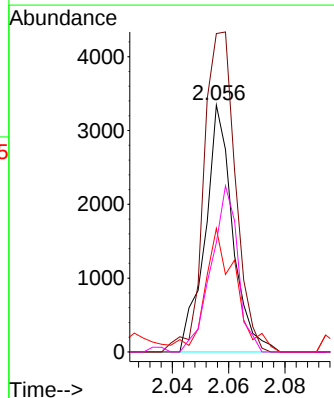
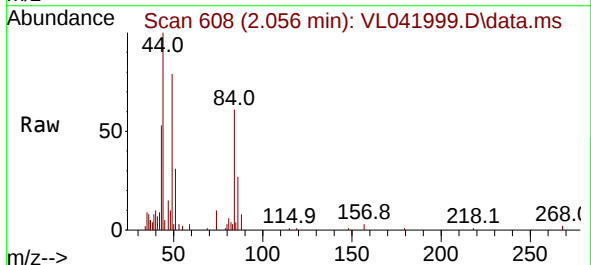
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

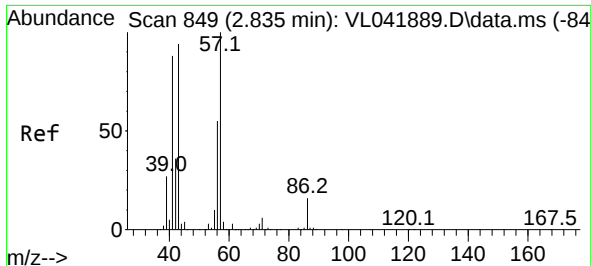
Tgt Ion: 45 Resp: 29516
Ion Ratio Lower Upper
45 100
58 64.8 35.0 52.6#



#20
Methylene Chloride
Concen: 0.299 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 84 Resp: 2278
Ion Ratio Lower Upper
84 100
49 129.0 123.1 184.7
51 50.0 35.8 53.8
86 44.3 53.7 80.5#

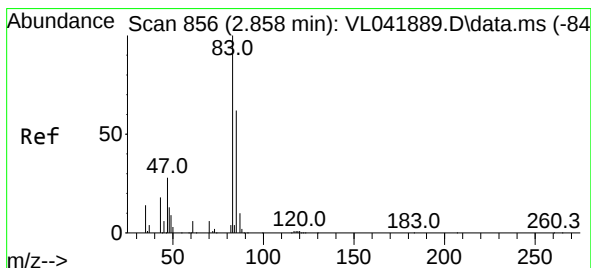
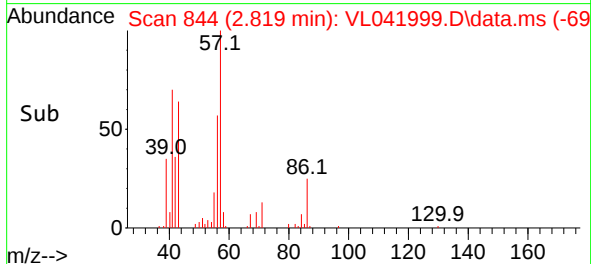
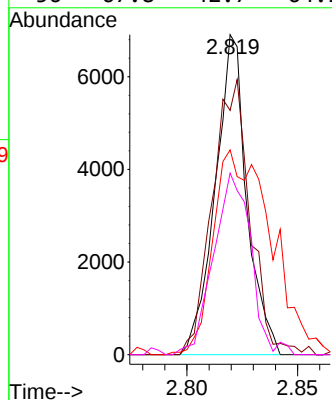
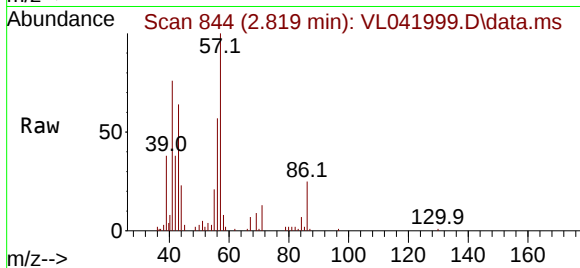




#26
Hexane
Concen: 0.333 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

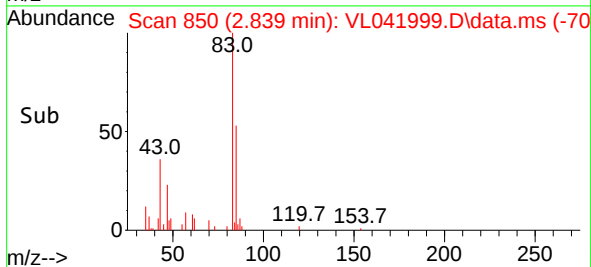
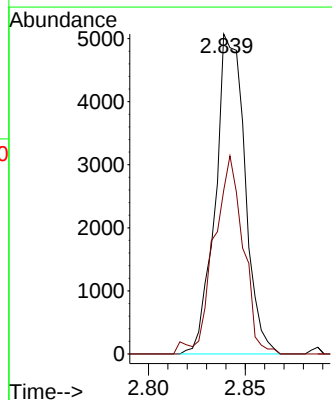
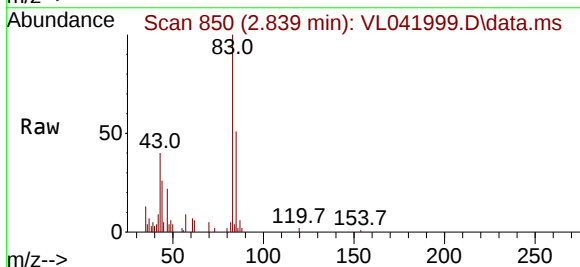
Instrument :
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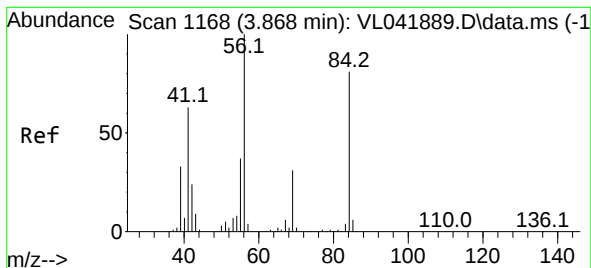
Tgt Ion: 57	Resp: 6855
Ion Ratio	Lower Upper
57 100	
41 105.7	73.8 110.8
43 120.3	197.3 295.9#
56 67.8	42.7 64.1#



#29
Chloroform
Concen: 0.165 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.019 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 83	Resp: 5378		
Ion Ratio	Lower	Upper	
83 100			
85 51.2	50.1	75.1	





#30

Cyclohexane

Concen: 0.316 ppbv m

RT: 3.845 min Scan# 1161

Delta R.T. -0.022 min

Lab File: VL041999.D

Acq: 11 Feb 2025 12:13

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

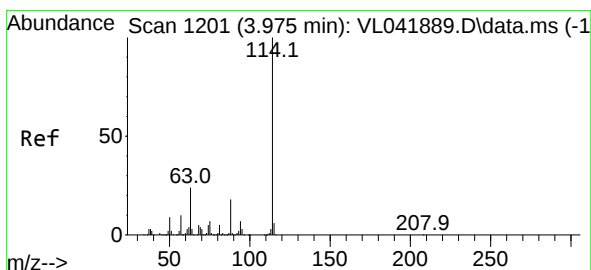
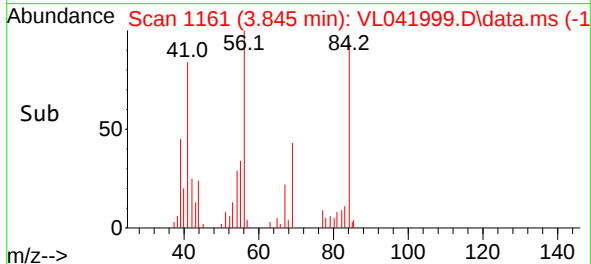
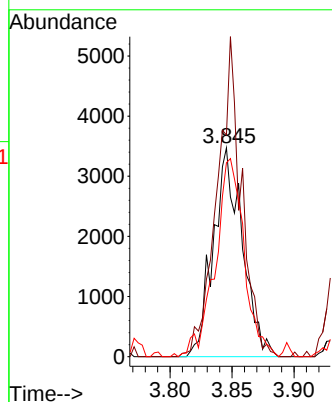
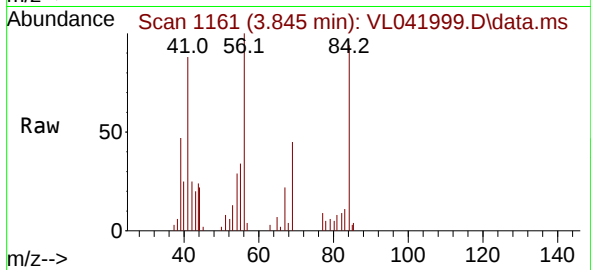
Tgt Ion: 84 Resp: 5631

Ion Ratio Lower Upper

84 100

56 128.8 99.3 148.9

41 96.0 64.3 96.5



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.026 min

Lab File: VL041999.D

Acq: 11 Feb 2025 12:13

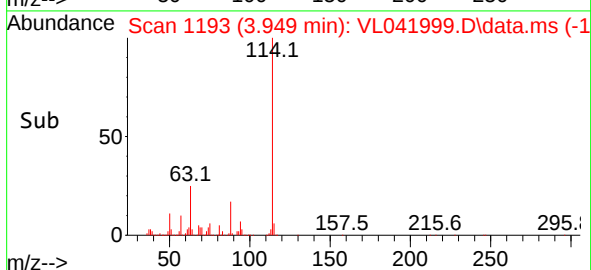
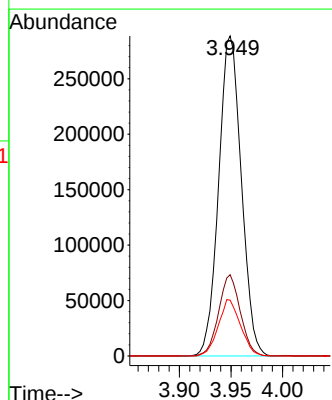
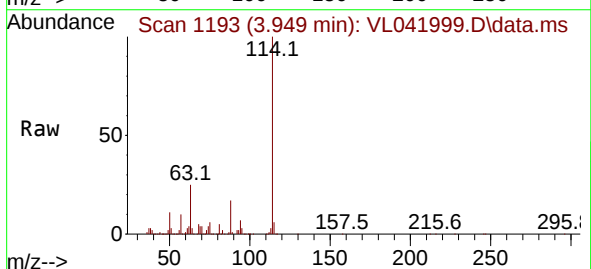
Tgt Ion: 114 Resp: 441083

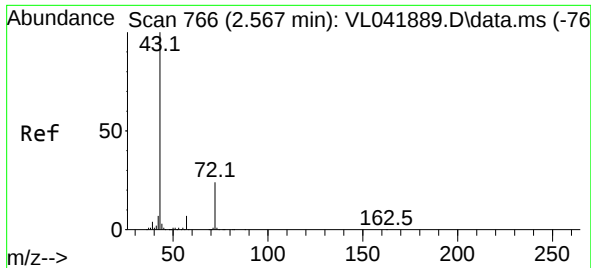
Ion Ratio Lower Upper

114 100

63 24.3 19.8 29.6

88 17.2 14.4 21.6

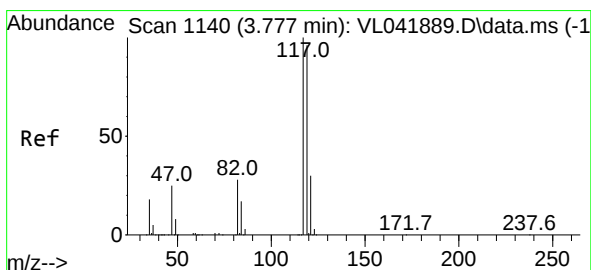
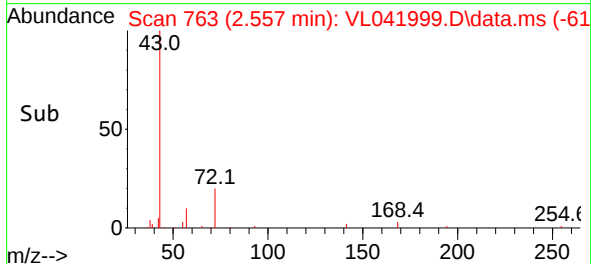
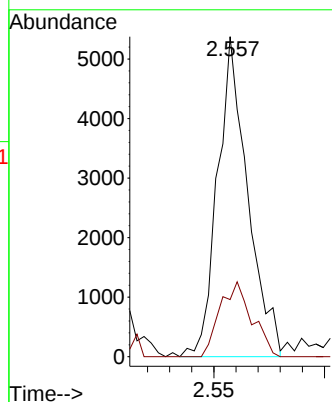
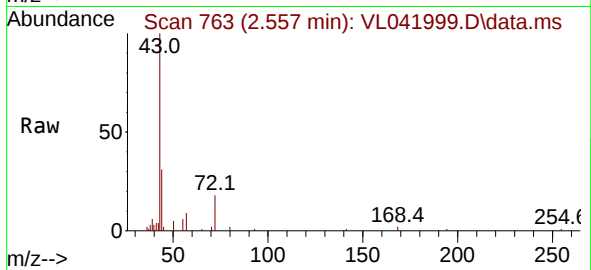




#34
2-Butanone
Concen: 0.182 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.010 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

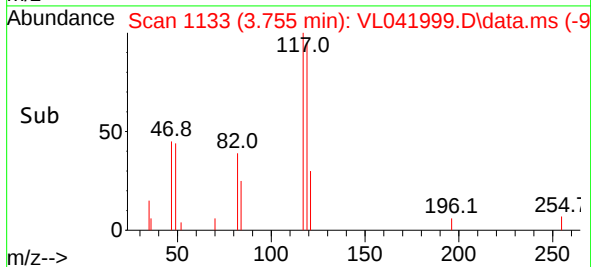
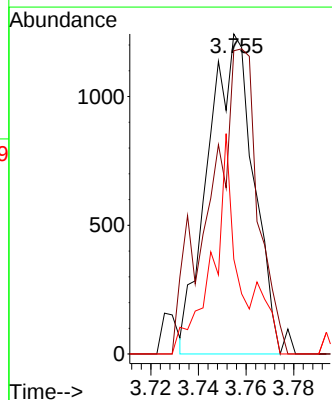
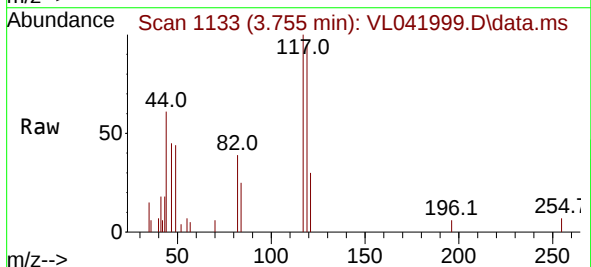
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

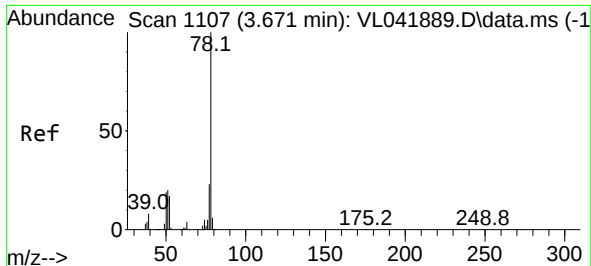
Tgt Ion: 43 Resp: 5095
Ion Ratio Lower Upper
43 100
72 24.7 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.060 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.022 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 117 Resp: 1650
Ion Ratio Lower Upper
117 100
119 85.8 76.9 115.3
121 29.7 23.8 35.6

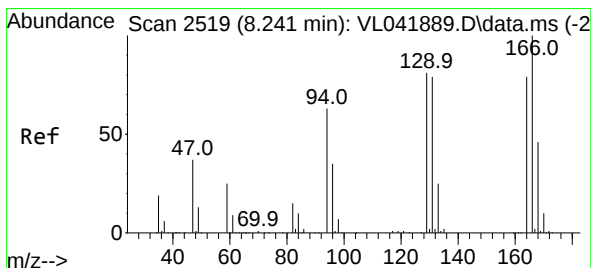
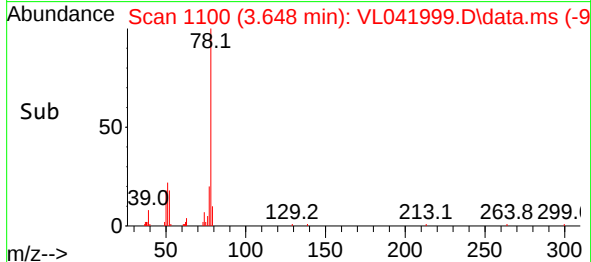
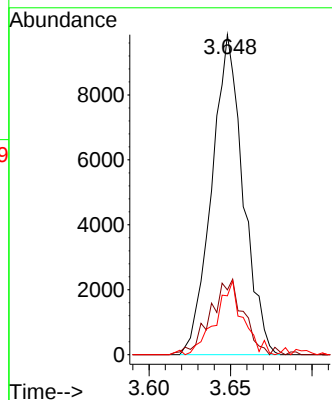
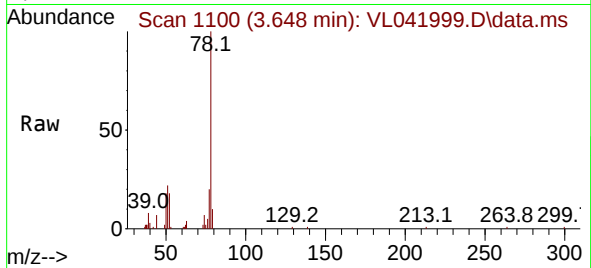




#36
Benzene
Concen: 0.327 ppbv
RT: 3.648 min Scan# 1107
Delta R.T. -0.022 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

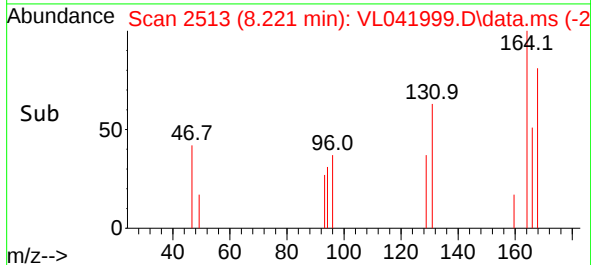
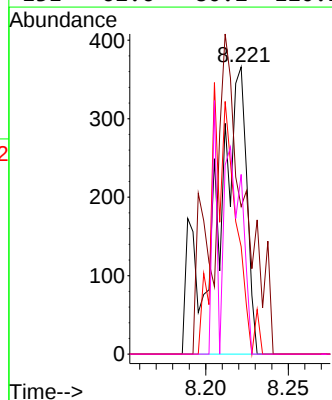
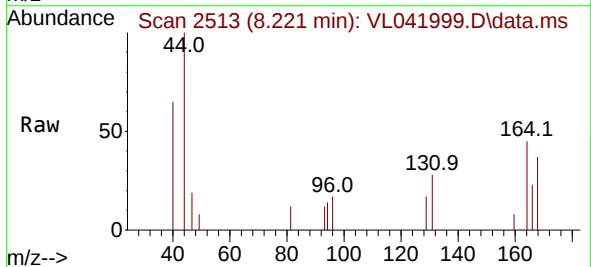
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

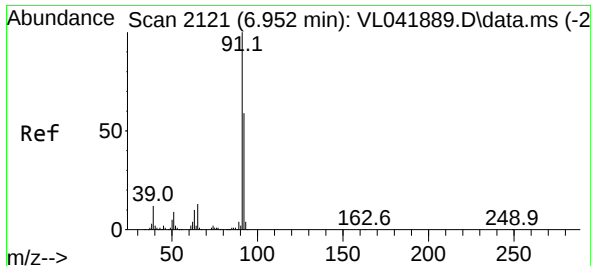
Tgt Ion: 78 Resp: 13219
Ion Ratio Lower Upper
78 100
77 19.4 18.1 27.1
50 17.8 15.2 22.8



#52
Tetrachloroethene
Concen: 0.033 ppbv m
RT: 8.221 min Scan# 2513
Delta R.T. -0.019 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 164 Resp: 465
Ion Ratio Lower Upper
164 100
166 51.4 100.8 151.2#
129 37.4 82.0 123.0#
131 62.6 80.2 120.2#

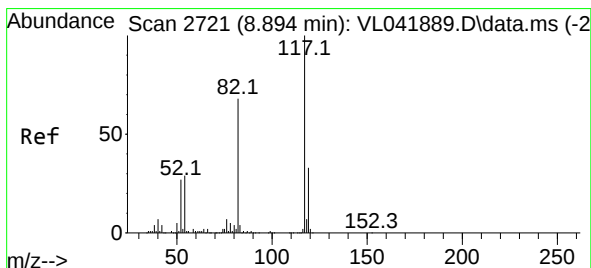
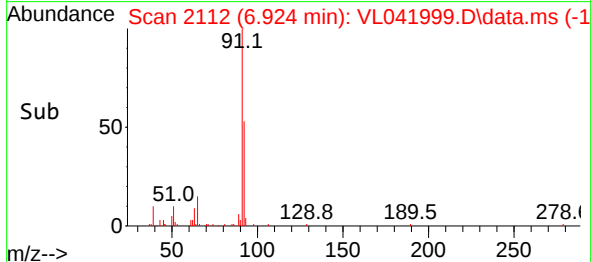
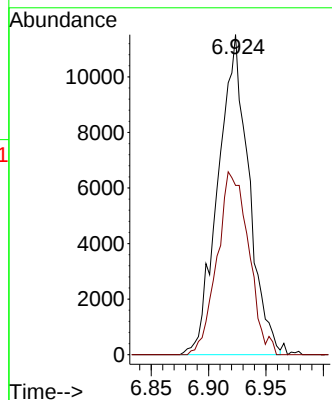
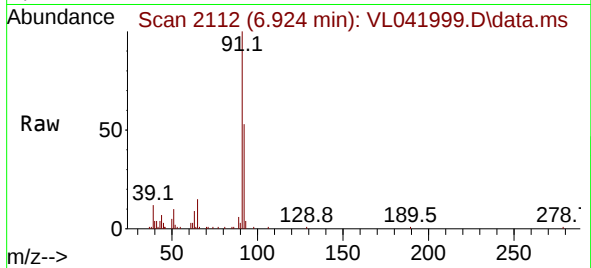




#53
Toluene
Concen: 0.485 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. -0.029 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

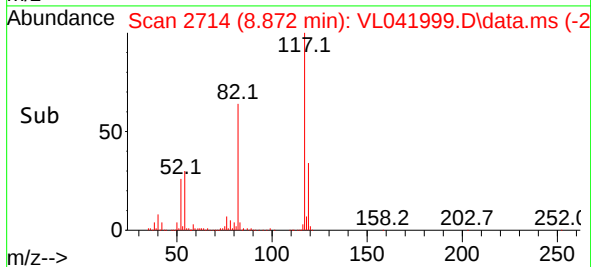
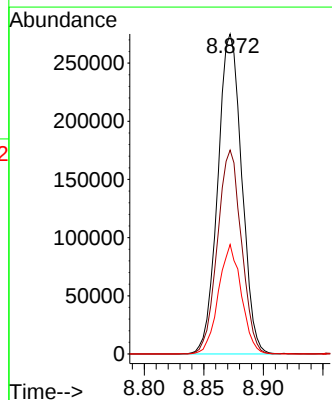
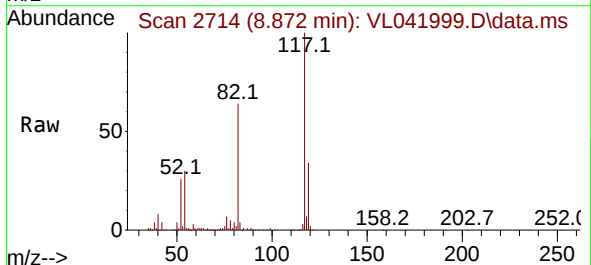
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

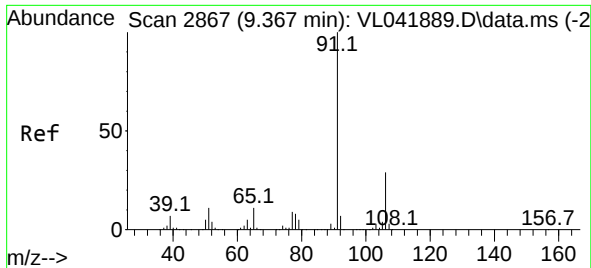
Tgt Ion: 91 Resp: 21354
Ion Ratio Lower Upper
91 100
92 59.0 47.4 71.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.022 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 117 Resp: 384736
Ion Ratio Lower Upper
117 100
82 63.7 54.2 81.4
119 32.7 25.0 37.6

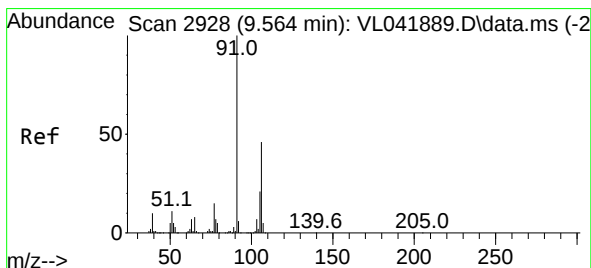
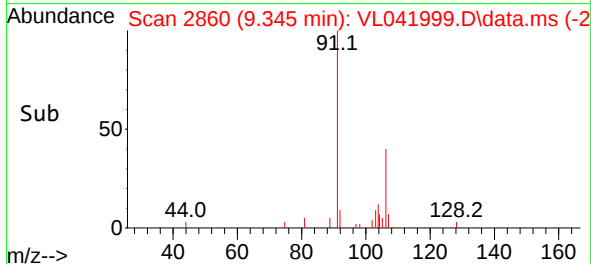
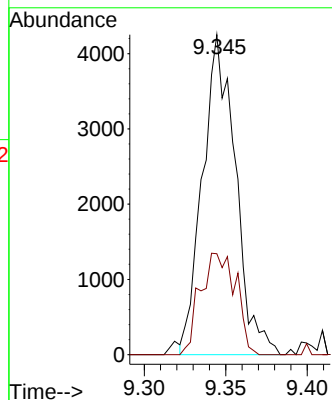
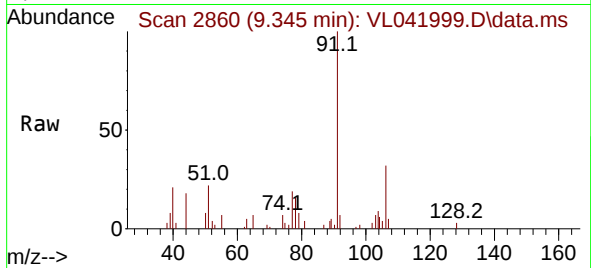




#58
Ethyl Benzene
Concen: 0.099 ppbv
RT: 9.345 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

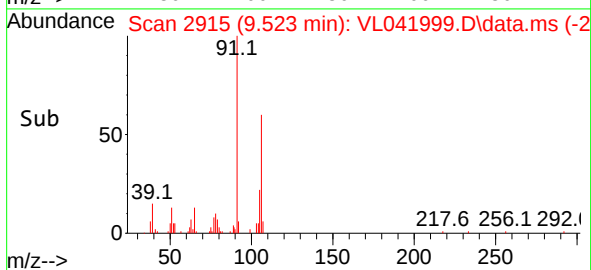
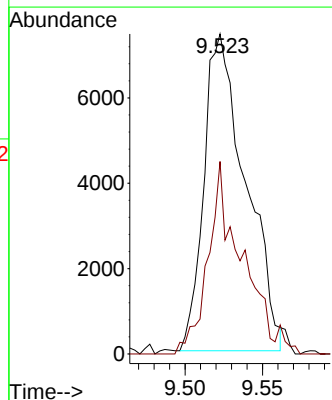
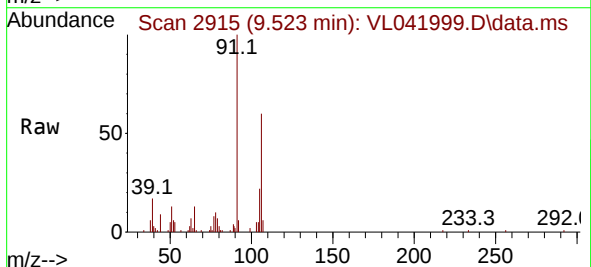
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

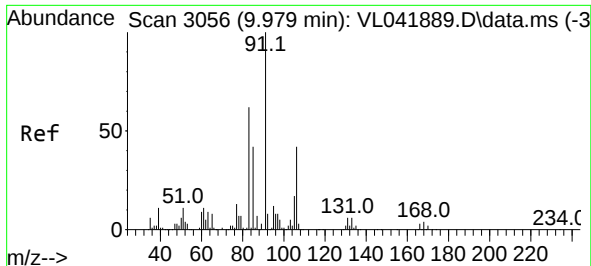
Tgt Ion: 91 Resp: 5964
Ion Ratio Lower Upper
91 100
106 31.5 23.1 34.7



#59
m/p-Xylene
Concen: 0.289 ppbv
RT: 9.523 min Scan# 2915
Delta R.T. -0.042 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 91 Resp: 13923
Ion Ratio Lower Upper
91 100
106 49.6 36.0 54.0

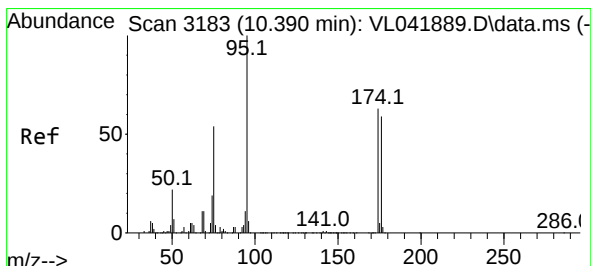
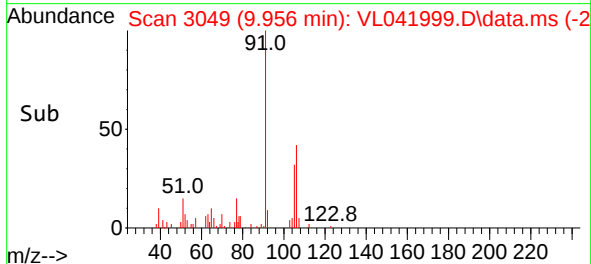
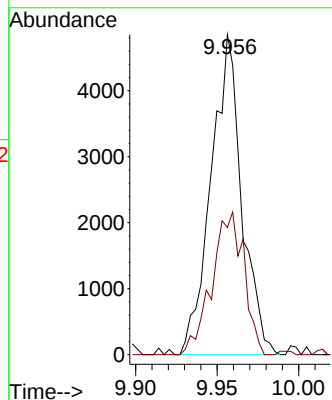
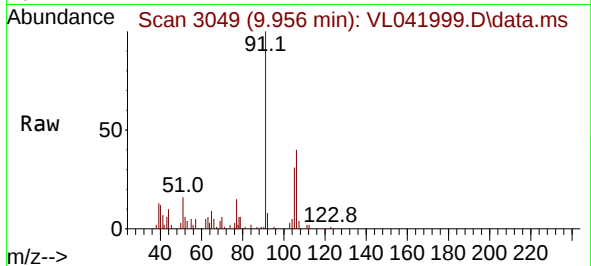




#60
o-Xylene
Concen: 0.133 ppbv
RT: 9.956 min Scan# 3056
Delta R.T. -0.022 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 6356
Ion Ratio Lower Upper
91 100
106 47.0 21.3 63.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.326 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.022 min
Lab File: VL041999.D
Acq: 11 Feb 2025 12:13

Tgt Ion: 95 Resp: 312912
Ion Ratio Lower Upper
95 100
174 59.9 49.0 73.4
175 4.6 3.8 5.8

