

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040813.D
 Acq On : 8 Nov 2023 16:38
 Operator : SY/MD
 Sample : 05290-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Quant Time: Nov 09 00:31:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

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

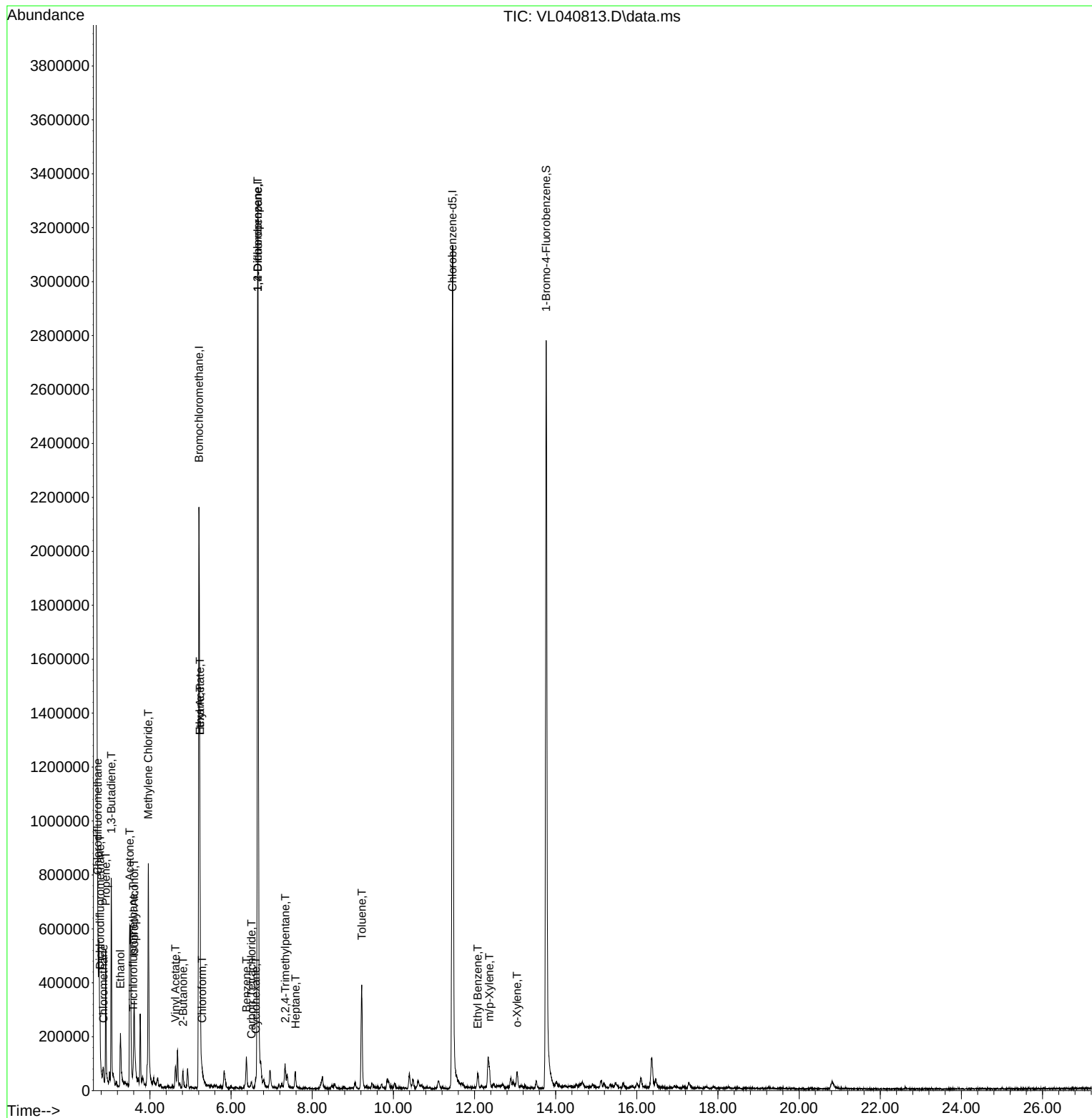
Internal Standards						
1) Bromochloromethane	5.208	49	975337	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2525620	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.459	117	2093500	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1483782	9.632	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.771	85	108983	0.635	ppbv	98
3) Chlorodifluoromethane	2.716	51	99651	0.695	ppbv #	86
4) Chloromethane	2.851	50	36425	0.644	ppbv	95
9) Propene	2.912	41	112240	2.108	ppbv	96
10) Heptane	7.587	43	13722	0.103	ppbv #	27
11) Trichlorofluoromethane	3.591	101	47130	0.356	ppbv	98
13) Ethanol	3.272	45	213953	17.802	ppbv	96
15) Acetone	3.501	43	721709	7.158	ppbv	92
16) 1,3-Butadiene	3.047	39	94993	1.796	ppbv #	17
19) Isopropyl Alcohol	3.613	45	338932	5.222	ppbv #	42
20) Methylene Chloride	3.960	84	259040	6.168	ppbv	98
23) Vinyl Acetate	4.629	43	38735	0.301	ppbv #	1
25) Ethyl Acetate	5.230	43	201854	0.914	ppbv #	82
26) Hexane	5.230	57	253445	2.510	ppbv #	44
29) Chloroform	5.288	83	5943	0.041	ppbv	85
30) Cyclohexane	6.607	84	6555	0.076	ppbv #	36
34) 2-Butanone	4.816	43	37059	0.324	ppbv #	48
35) Carbon Tetrachloride	6.501	117	8100	0.057	ppbv #	82
36) Benzene	6.378	78	81005	0.417	ppbv	98
39) 1,2-Dichloropropane	6.658	63	604579	7.966	ppbv #	27
44) 2,2,4-Trimethylpentane	7.337	57	67417	0.205	ppbv #	84
53) Toluene	9.221	91	288578	1.248	ppbv	99
58) Ethyl Benzene	12.076	91	21910	0.083	ppbv #	87
59) m/p-Xylene	12.362	91	12524	0.058	ppbv #	30
60) o-Xylene	13.050	91	31235	0.151	ppbv #	60

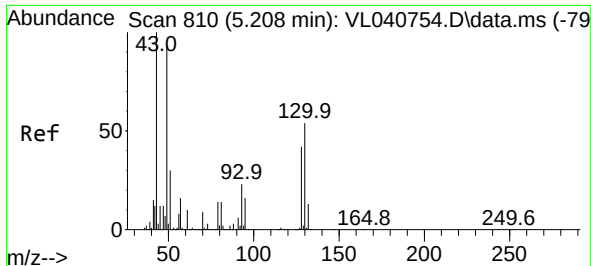
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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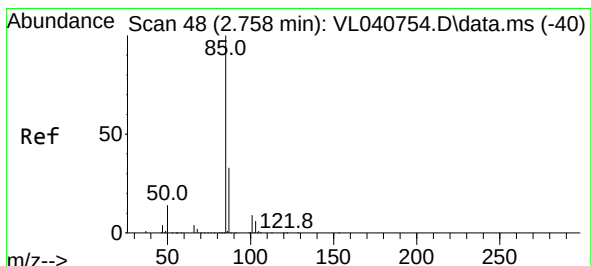
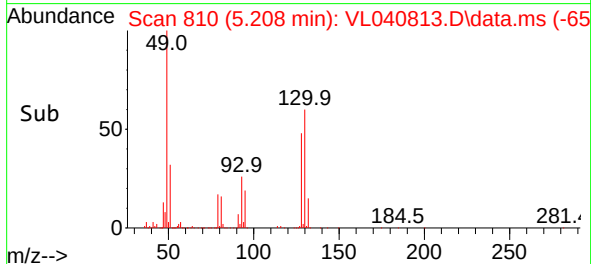
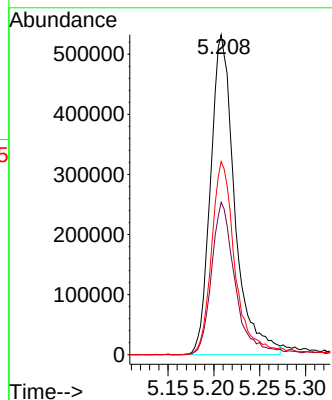
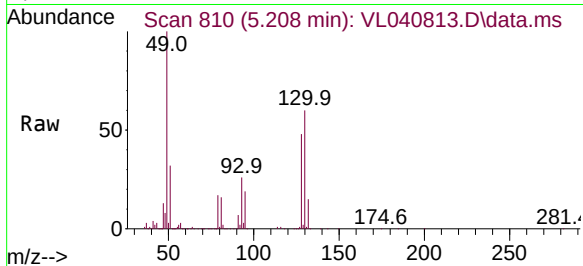




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

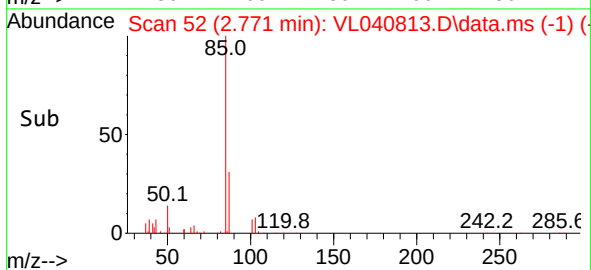
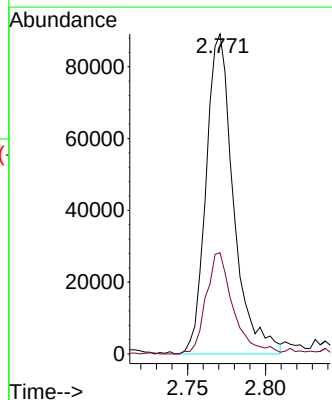
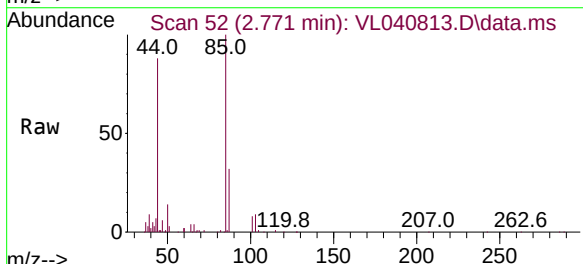
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

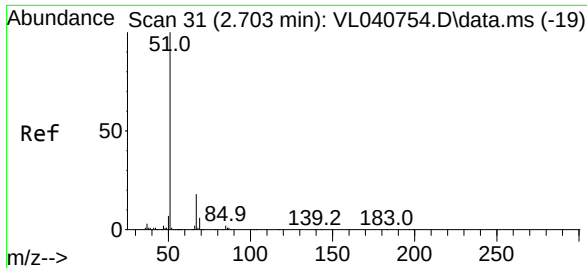
Tgt Ion: 49 Resp: 975337
Ion Ratio Lower Upper
49 100
128 48.6 23.9 71.7
130 61.3 30.7 92.1



#2
Dichlorodifluoromethane
Concen: 0.635 ppbv
RT: 2.771 min Scan# 52
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 85 Resp: 108983
Ion Ratio Lower Upper
85 100
87 31.5 26.0 39.0

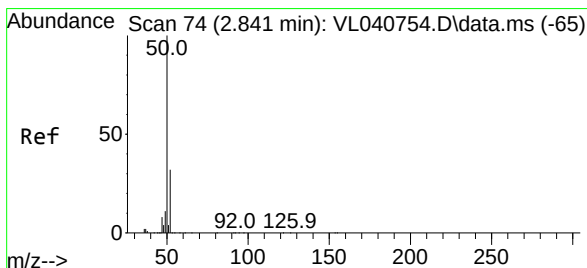
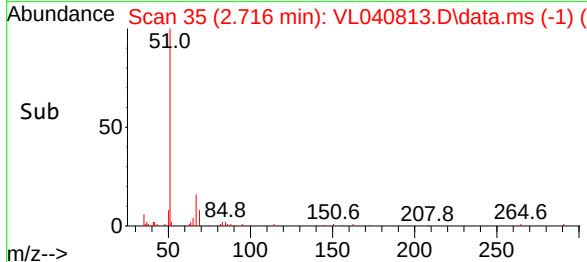
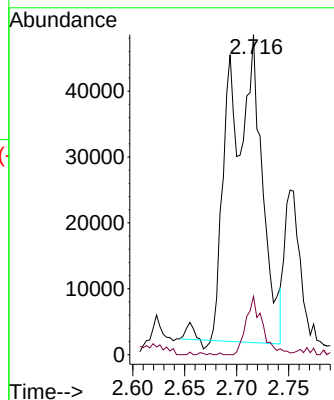
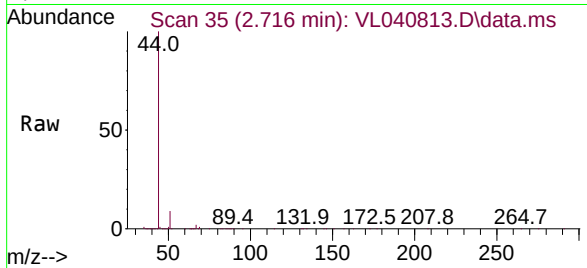




#3
Chlorodifluoromethane
Concen: 0.695 ppbv
RT: 2.716 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

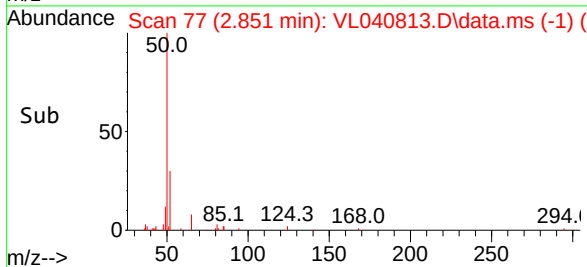
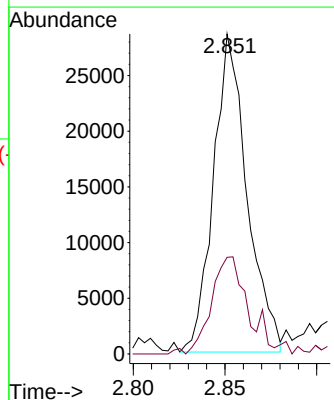
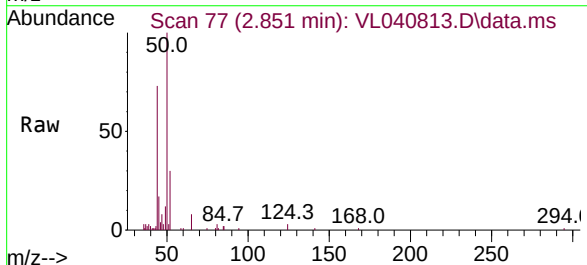
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

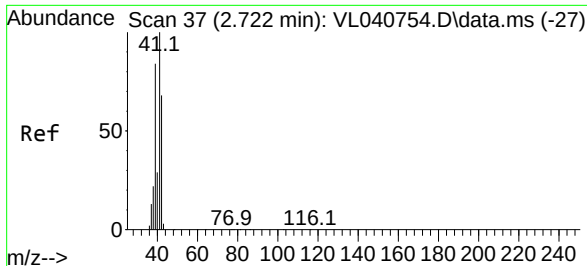
Tgt Ion: 51 Resp: 99651
Ion Ratio Lower Upper
51 100
67 11.1 13.8 20.6#



#4
Chloromethane
Concen: 0.644 ppbv
RT: 2.851 min Scan# 77
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 50 Resp: 36425
Ion Ratio Lower Upper
50 100
52 28.7 25.3 37.9

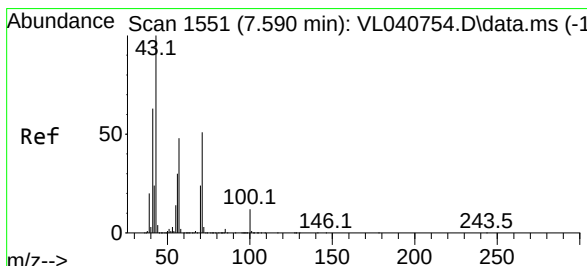
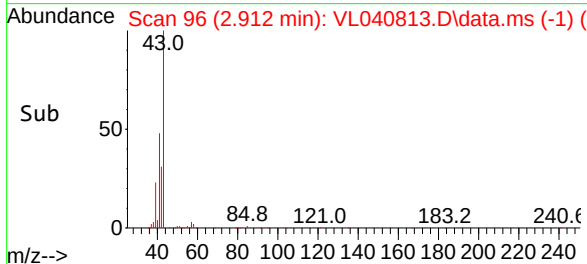
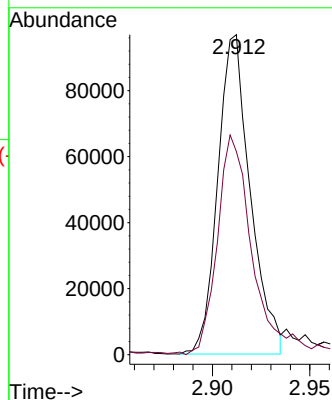
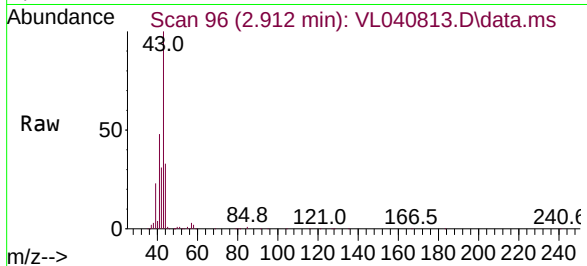




#9
 Propene
 Concen: 2.108 ppbv
 RT: 2.912 min Scan# 90
 Delta R.T. 0.177 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

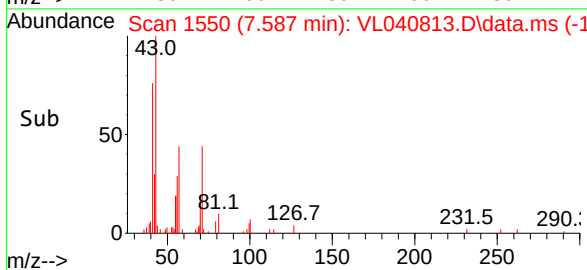
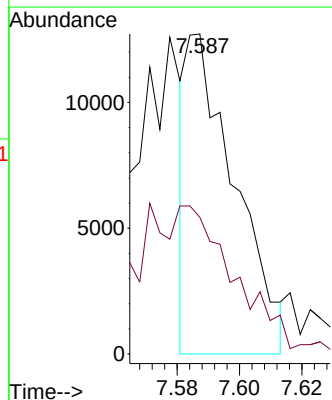
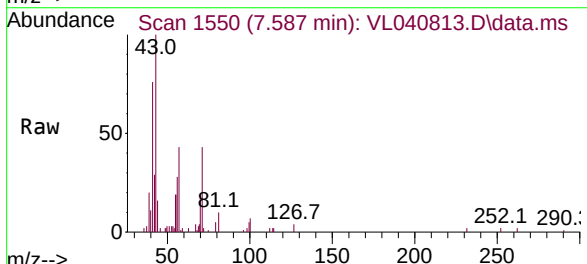
Instrument :
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 ClientSampleId :
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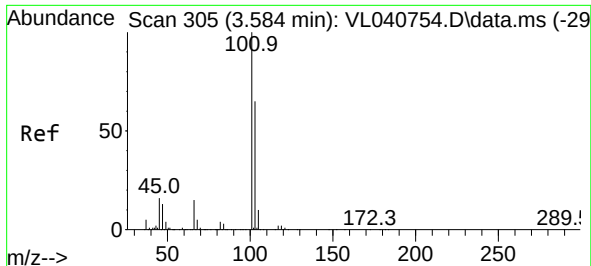
Tgt Ion: 41 Resp: 112240
 Ion Ratio Lower Upper
 41 100
 42 74.7 57.1 85.7



#10
 Heptane
 Concen: 0.103 ppbv
 RT: 7.587 min Scan# 1550
 Delta R.T. 0.000 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

Tgt Ion: 43 Resp: 13722
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.0 60.0#

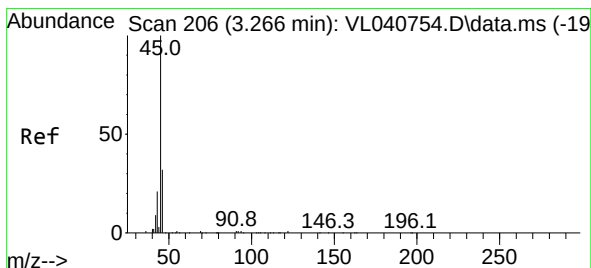
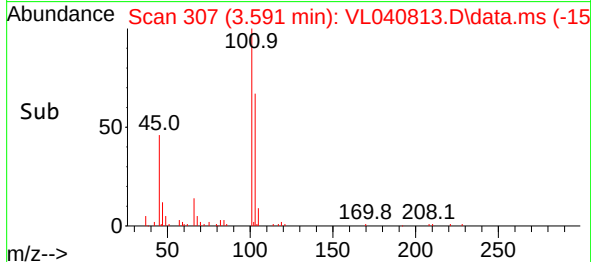
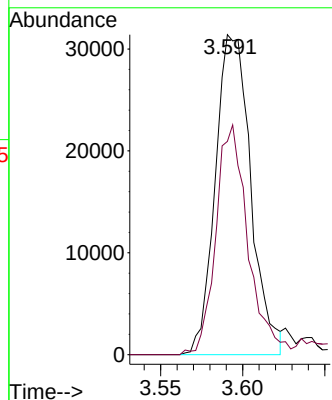
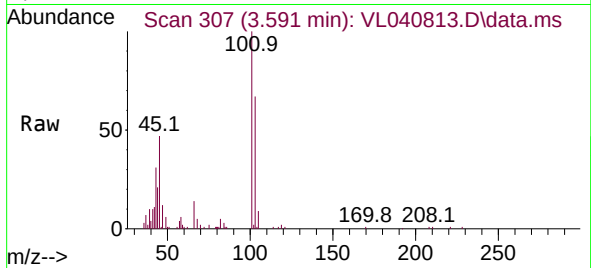




#11
Trichlorofluoromethane
Concen: 0.356 ppbv
RT: 3.591 min Scan# 305
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

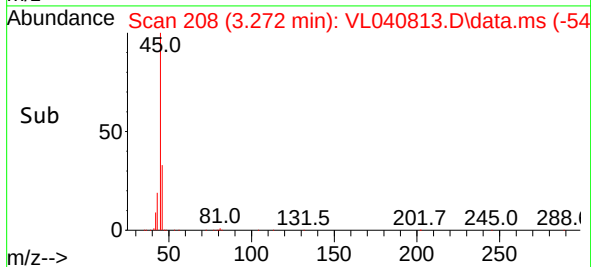
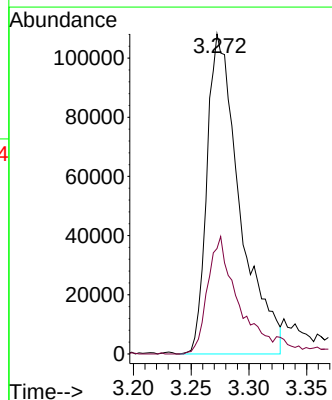
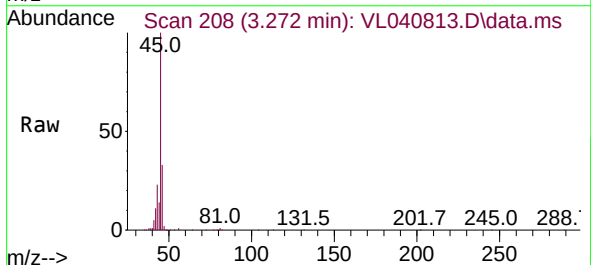
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

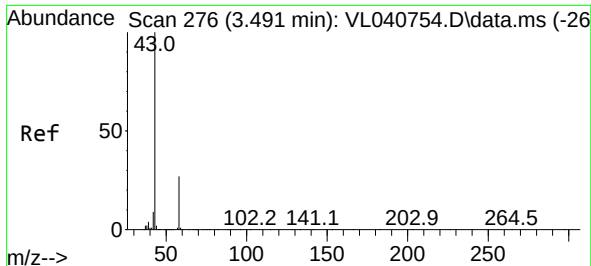
Tgt Ion:101 Resp: 47130
Ion Ratio Lower Upper
101 100
103 66.7 52.2 78.2



#13
Ethanol
Concen: 17.802 ppbv
RT: 3.272 min Scan# 208
Delta R.T. -0.006 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 45 Resp: 213953
Ion Ratio Lower Upper
45 100
46 38.5 14.6 58.2





#15

Acetone

Concen: 7.158 ppbv

RT: 3.501 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL040813.D

Acq: 8 Nov 2023 16:38

Instrument :

MSVOA_L

ClientSampleId :

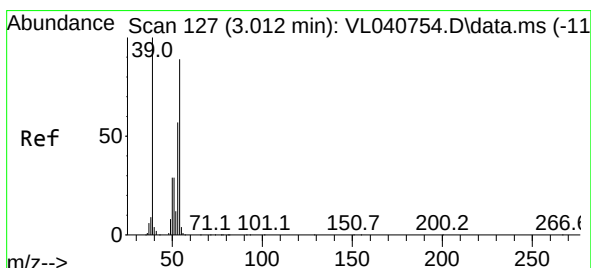
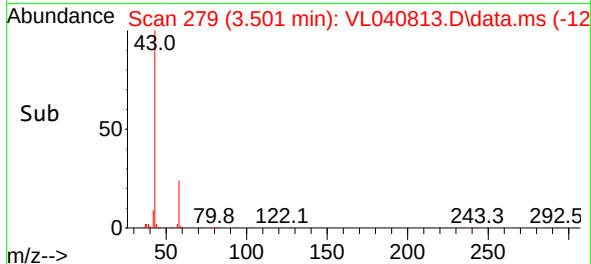
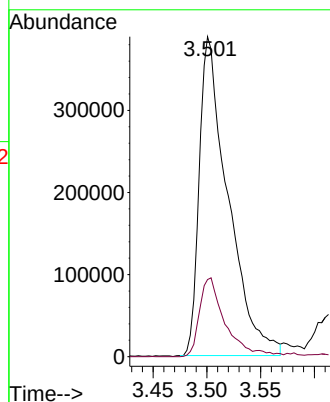
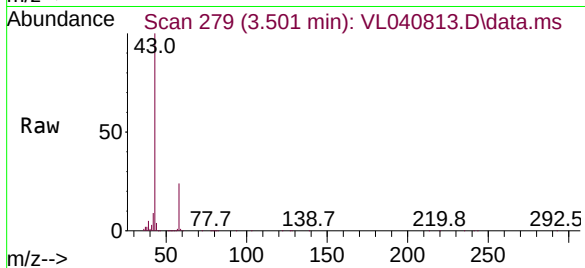
OA1DUP

Tgt Ion: 43 Resp: 721709

Ion Ratio Lower Upper

43 100

58 22.7 21.6 32.4



#16

1,3-Butadiene

Concen: 1.796 ppbv

RT: 3.047 min Scan# 138

Delta R.T. 0.026 min

Lab File: VL040813.D

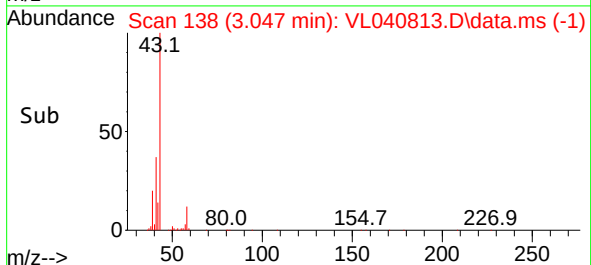
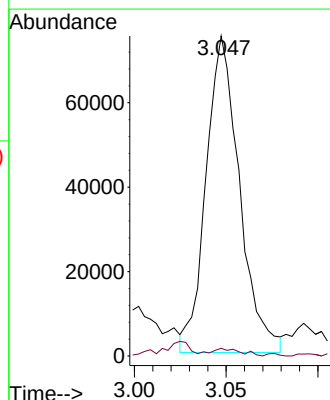
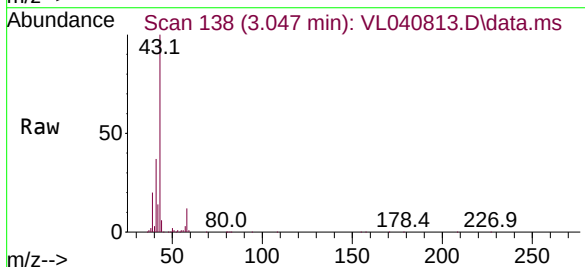
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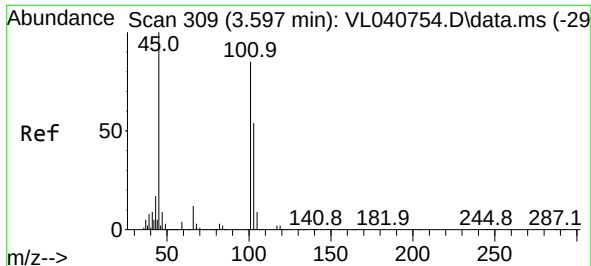
Tgt Ion: 39 Resp: 94993

Ion Ratio Lower Upper

39 100

54 6.0 63.0 94.6#

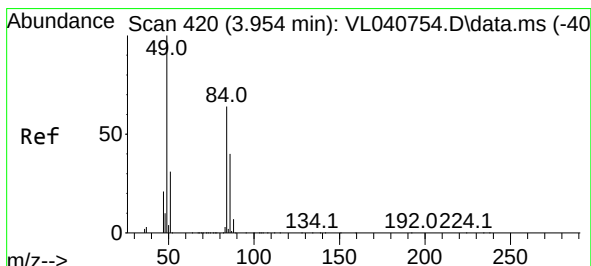
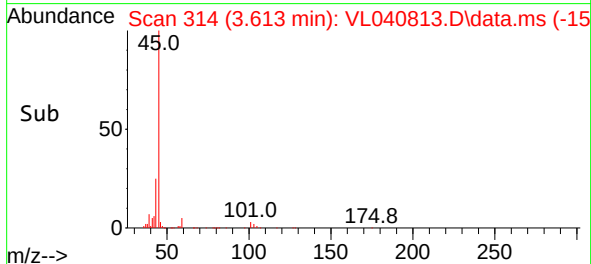
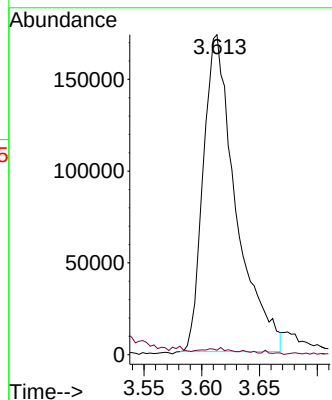
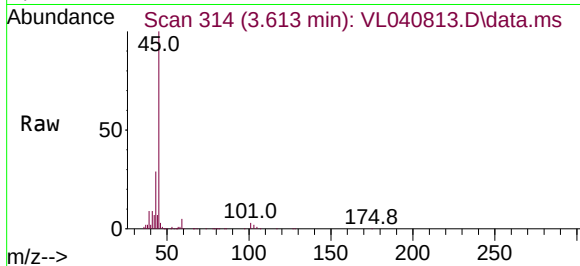




#19
Isopropyl Alcohol
Concen: 5.222 ppbv
RT: 3.613 min Scan# 314
Delta R.T. 0.007 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

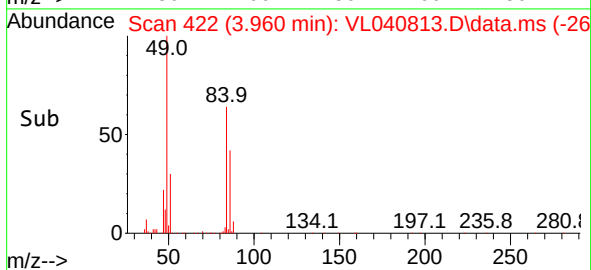
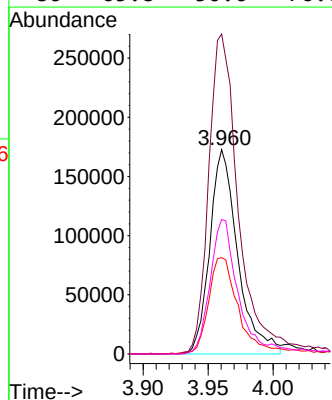
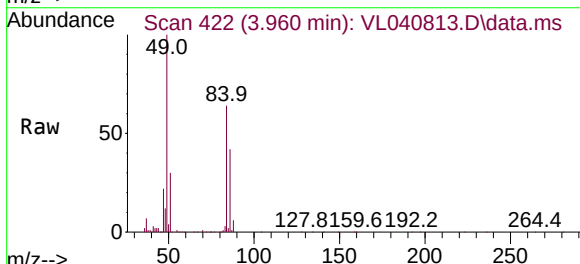
Instrument :
MSVOA_1
ClientSampleId :
OA1DUP

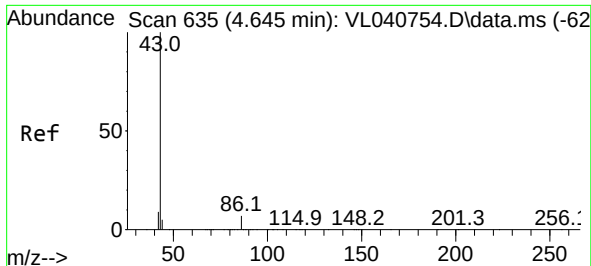
Tgt Ion: 45 Resp: 338932
Ion Ratio Lower Upper
45 100
58 2.7 30.3 45.5#



#20
Methylene Chloride
Concen: 6.168 ppbv
RT: 3.960 min Scan# 422
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 84 Resp: 259040
Ion Ratio Lower Upper
84 100
49 156.2 125.6 188.4
51 46.7 38.9 58.3
86 65.8 50.6 76.0



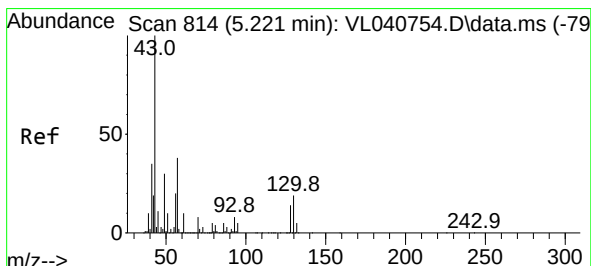
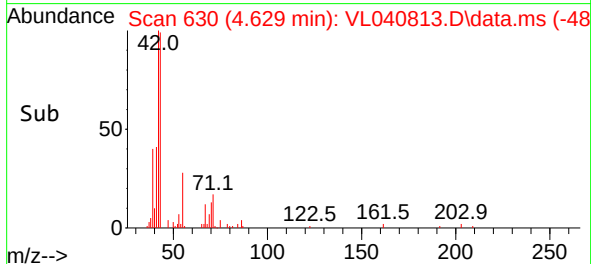
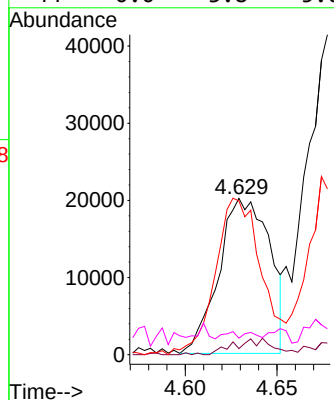
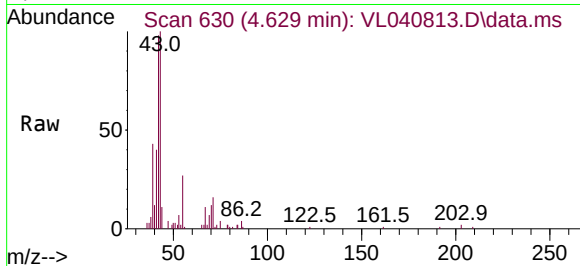


#23
 Vinyl Acetate
 Concen: 0.301 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. -0.019 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Tgt Ion: 43 Resp: 38735

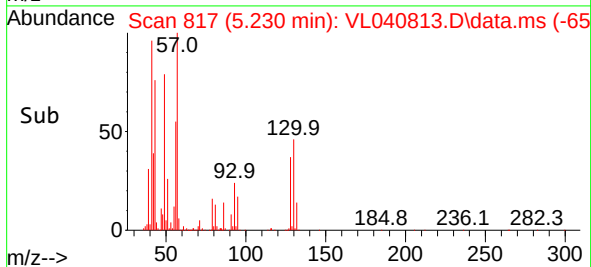
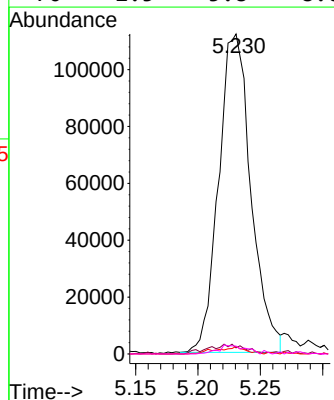
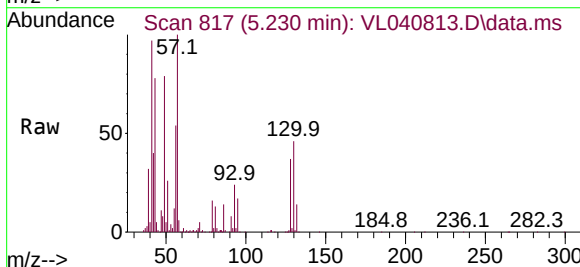
Ion	Ratio	Lower	Upper
43	100		
86	3.9	4.9	7.3#
42	96.2	7.8	11.6#
44	0.0	3.8	5.6#

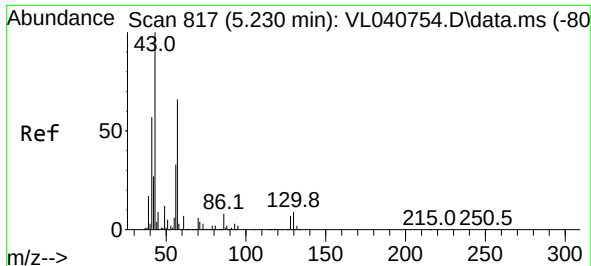


#25
 Ethyl Acetate
 Concen: 0.914 ppbv
 RT: 5.230 min Scan# 817
 Delta R.T. 0.010 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

Tgt Ion: 43 Resp: 201854

Ion	Ratio	Lower	Upper
43	100		
45	3.5	8.2	12.4#
61	2.4	8.2	12.2#
70	2.5	5.8	8.6#

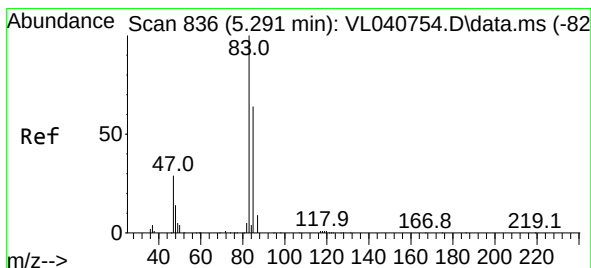
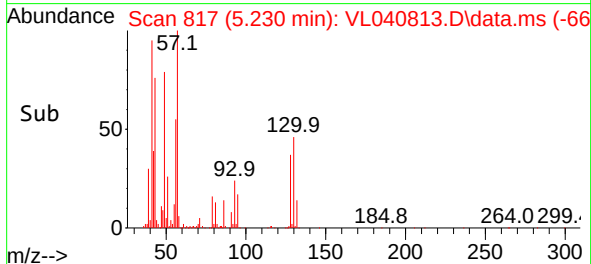
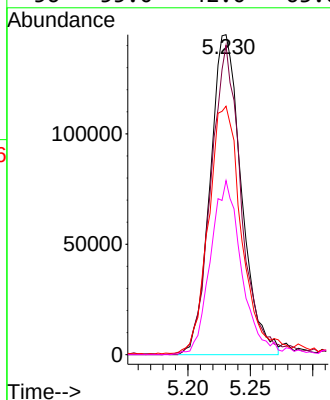
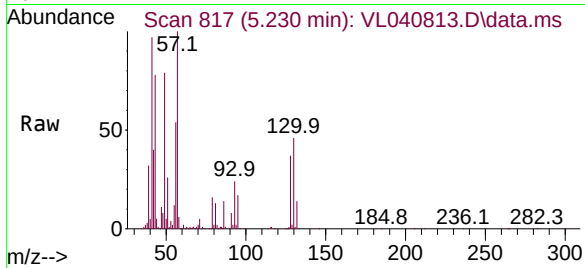




#26
Hexane
Concen: 2.510 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

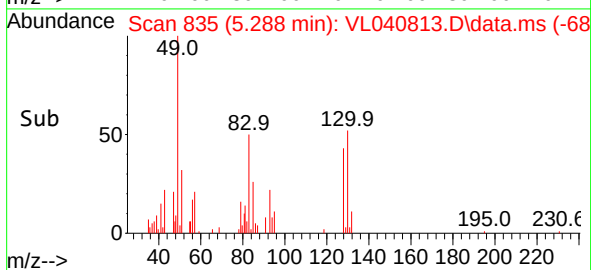
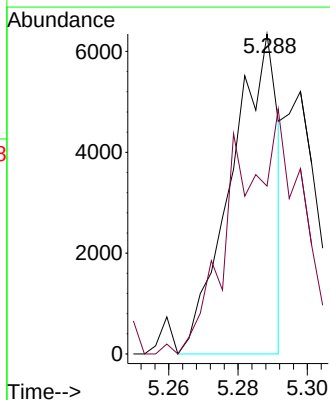
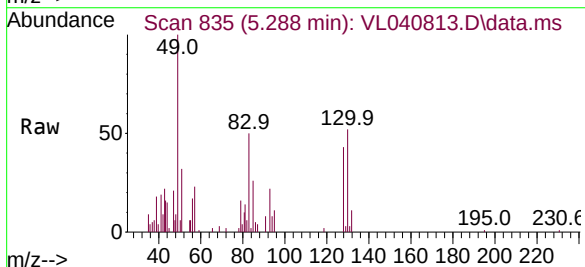
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

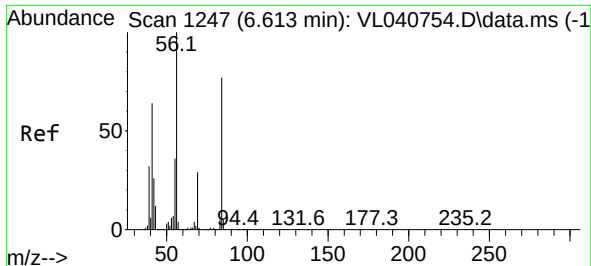
Tgt Ion: 57 Resp: 253445
Ion Ratio Lower Upper
57 100
41 95.3 71.4 107.2
43 83.8 182.3 273.5#
56 55.0 42.0 63.0



#29
Chloroform
Concen: 0.041 ppbv
RT: 5.288 min Scan# 835
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 83 Resp: 5943
Ion Ratio Lower Upper
83 100
85 52.4 51.3 76.9

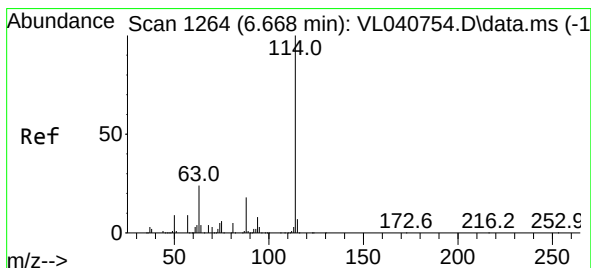
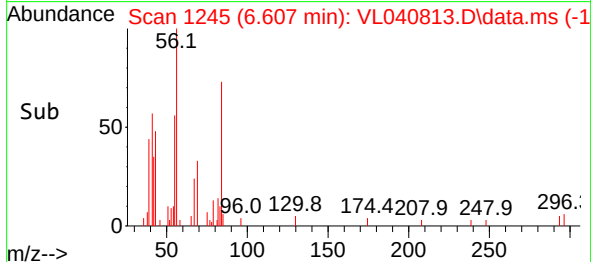
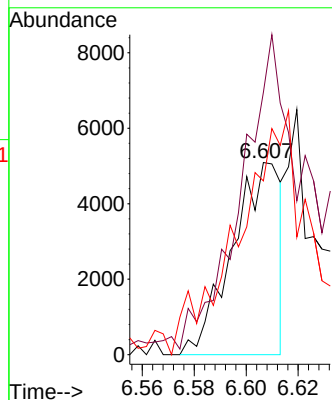
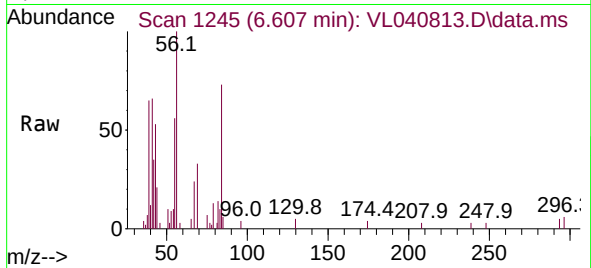




#30
Cyclohexane
Concen: 0.076 ppbv
RT: 6.607 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

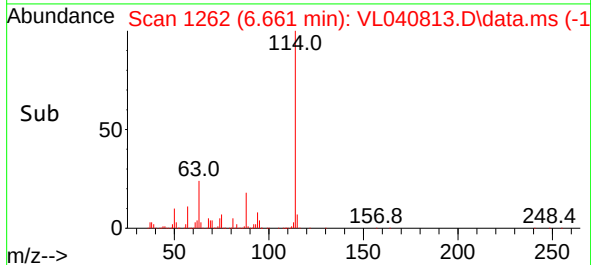
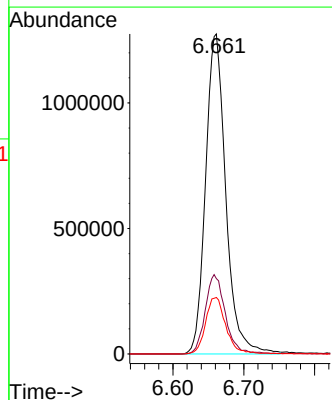
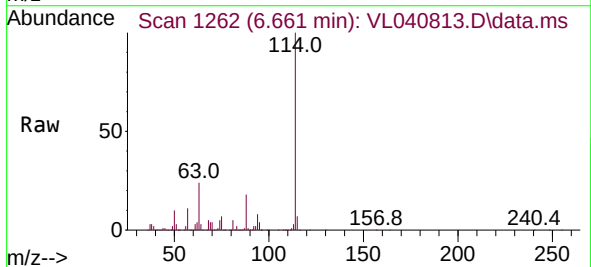
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

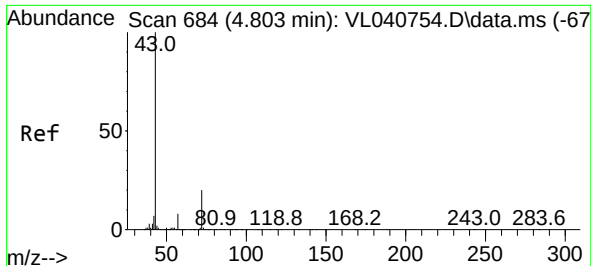
Tgt Ion: 84 Resp: 6555
Ion Ratio Lower Upper
84 100
56 194.1 110.3 165.5#
41 0.0 67.4 101.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 114 Resp: 2525620
Ion Ratio Lower Upper
114 100
63 24.7 19.8 29.6
88 17.8 14.2 21.2

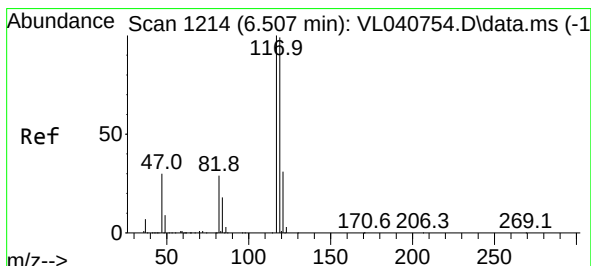
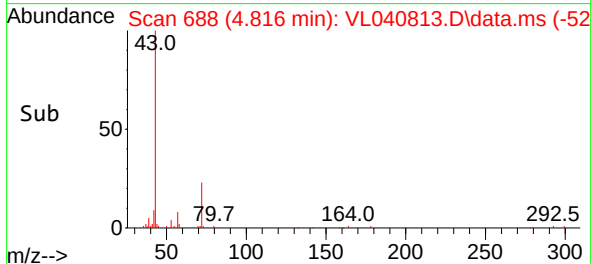
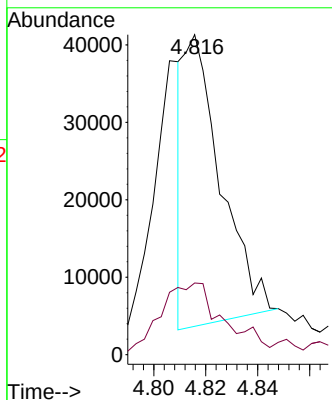
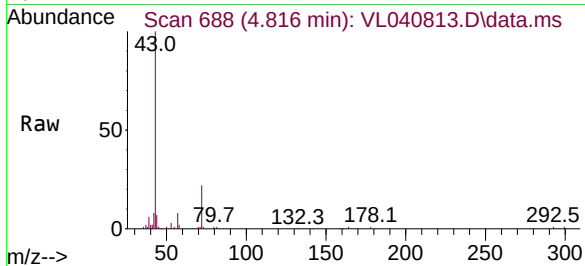




#34
2-Butanone
Concen: 0.324 ppbv
RT: 4.816 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

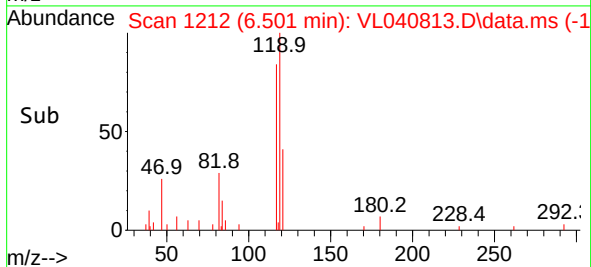
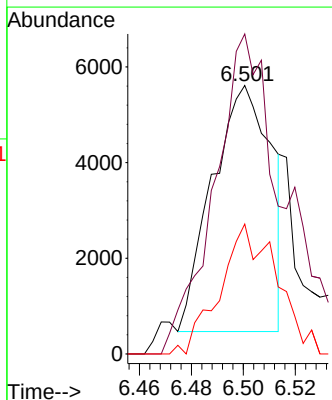
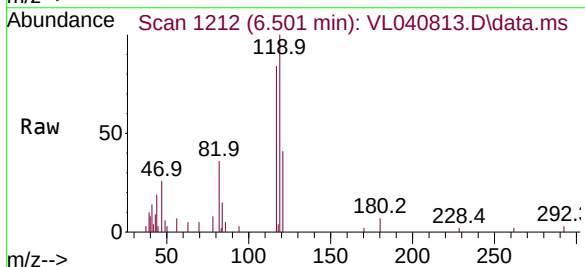
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

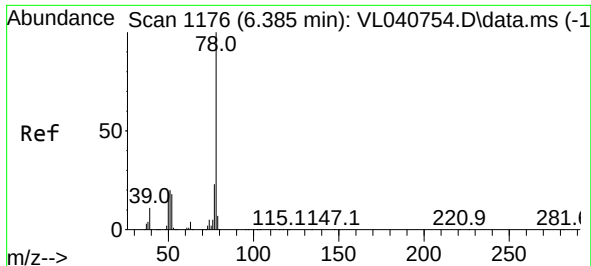
Tgt Ion: 43 Resp: 37059
Ion Ratio Lower Upper
43 100
72 45.5 16.8 25.2#



#35
Carbon Tetrachloride
Concen: 0.057 ppbv
RT: 6.501 min Scan# 1212
Delta R.T. -0.006 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 117 Resp: 8100
Ion Ratio Lower Upper
117 100
119 112.1 79.4 119.0
121 49.3 25.0 37.4#





#36

Benzene

Concen: 0.417 ppbv

RT: 6.378 min Scan# 1174

Delta R.T. -0.003 min

Lab File: VL040813.D

Acq: 8 Nov 2023 16:38

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

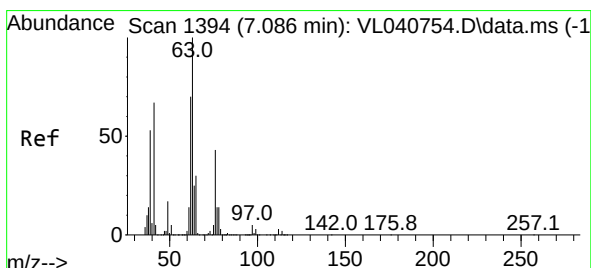
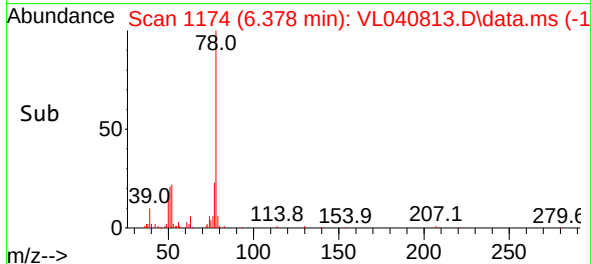
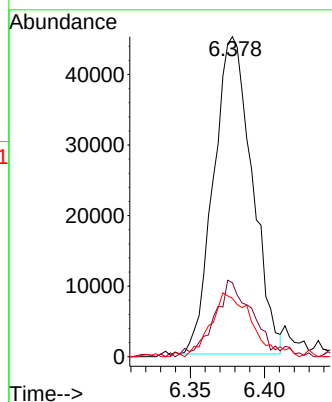
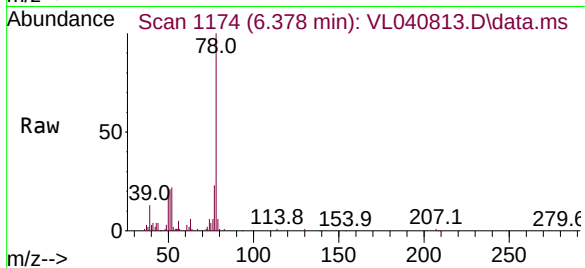
Tgt Ion: 78 Resp: 81005

Ion Ratio Lower Upper

78 100

77 22.4 18.4 27.6

50 17.6 15.0 22.4



#39

1,2-Dichloropropane

Concen: 7.966 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.424 min

Lab File: VL040813.D

Acq: 8 Nov 2023 16:38

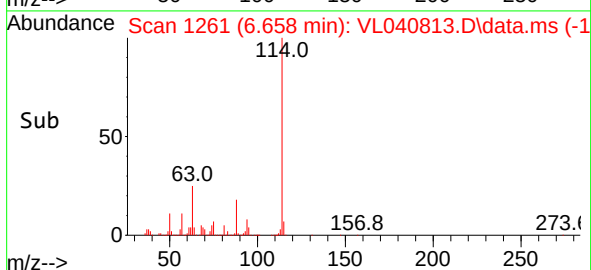
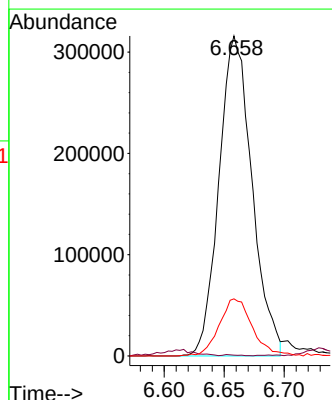
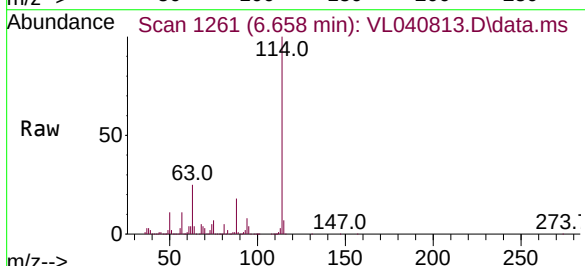
Tgt Ion: 63 Resp: 604579

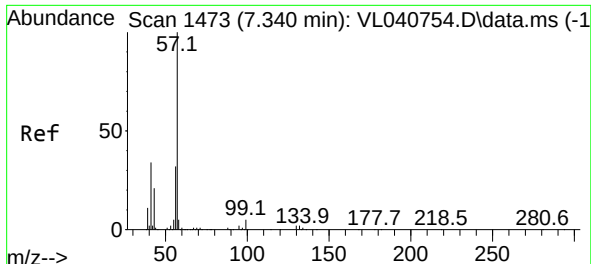
Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 17.8 55.7 83.5#

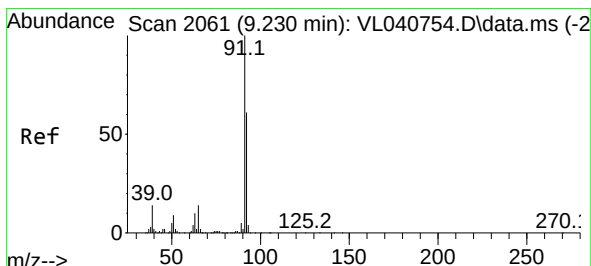
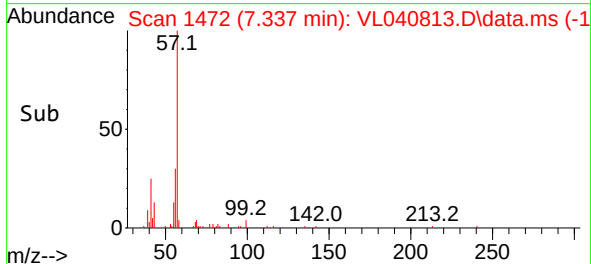
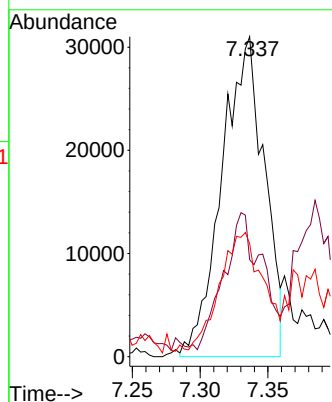
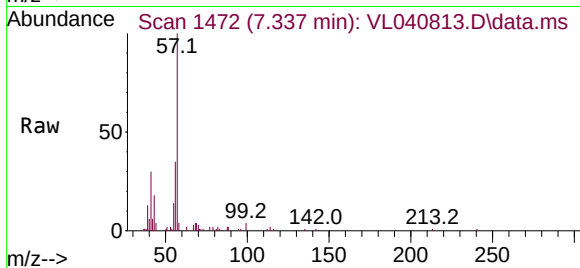




#44
2,2,4-Trimethylpentane
Concen: 0.205 ppbv
RT: 7.337 min Scan# 1473
Delta R.T. 0.003 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

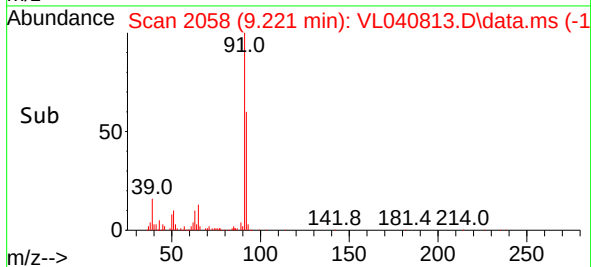
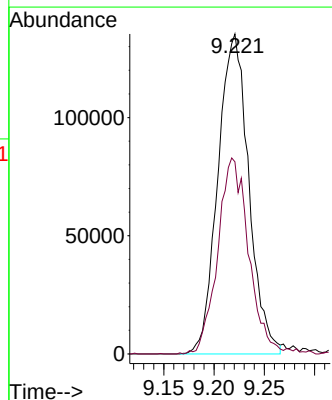
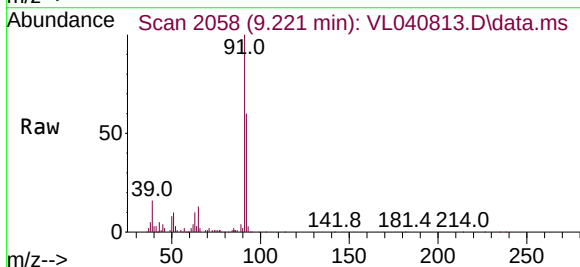
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

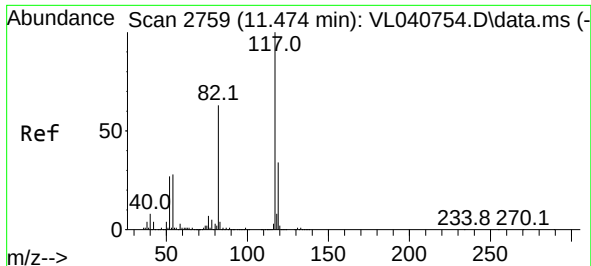
Tgt Ion: 57 Resp: 67417
Ion Ratio Lower Upper
57 100
41 42.0 27.4 41.0#
56 42.0 25.0 37.6#



#53
Toluene
Concen: 1.248 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VL040813.D
Acq: 8 Nov 2023 16:38

Tgt Ion: 91 Resp: 288578
Ion Ratio Lower Upper
91 100
92 62.0 50.2 75.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.459 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL040813.D

Acq: 8 Nov 2023 16:38

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

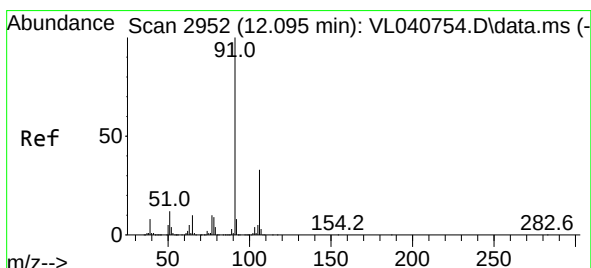
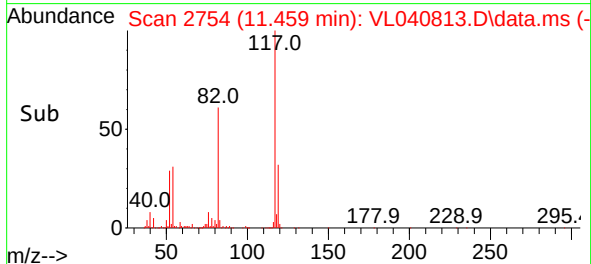
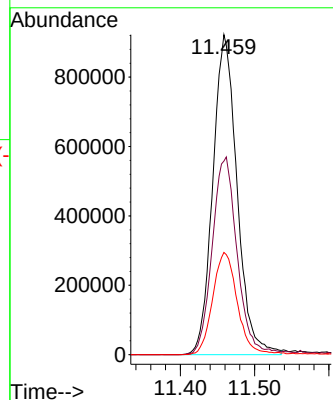
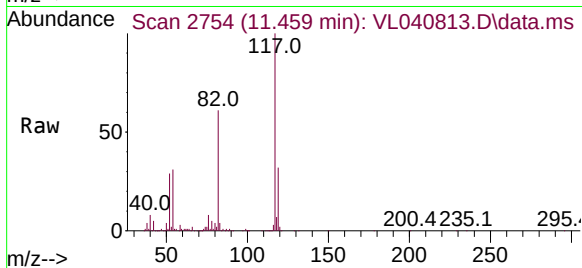
Tgt Ion:117 Resp: 2093500

Ion Ratio Lower Upper

117 100

82 65.3 46.6 70.0

119 33.0 26.0 39.0



#58

Ethyl Benzene

Concen: 0.083 ppbv

RT: 12.076 min Scan# 2946

Delta R.T. -0.006 min

Lab File: VL040813.D

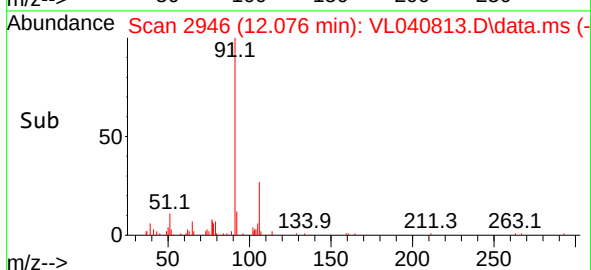
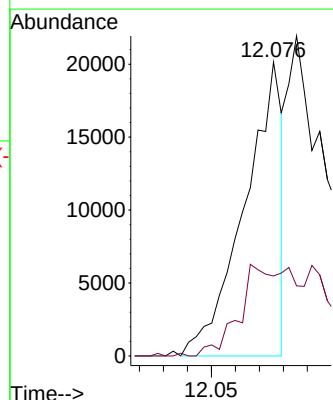
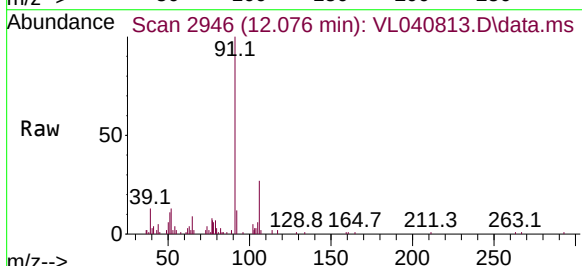
Acq: 8 Nov 2023 16:38

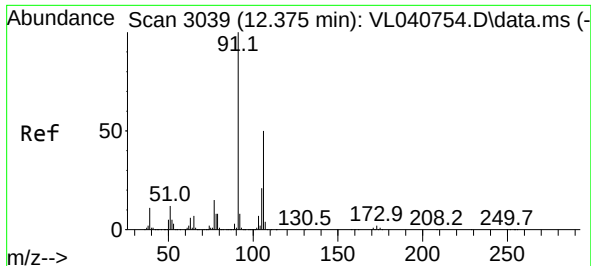
Tgt Ion: 91 Resp: 21910

Ion Ratio Lower Upper

91 100

106 26.3 26.7 40.1#





#59

m/p-Xylene

Concen: 0.058 ppbv

RT: 12.362 min Scan# 3035

Delta R.T. -0.006 min

Lab File: VL040813.D

Acq: 8 Nov 2023 16:38

Instrument :

MSVOA_L

ClientSampleId :

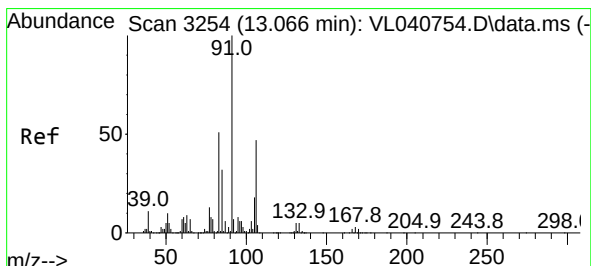
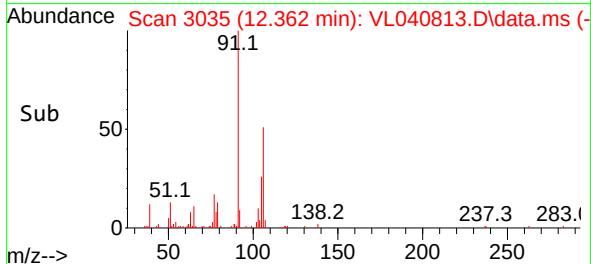
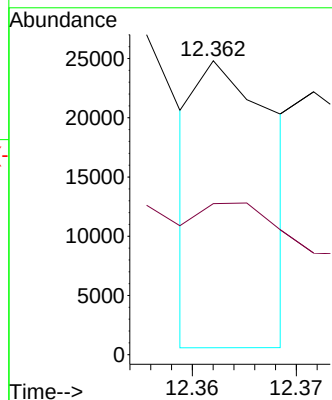
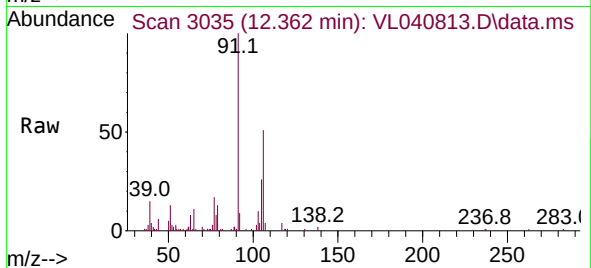
OA1DUP

Tgt Ion: 91 Resp: 12524

Ion Ratio Lower Upper

91 100

106 0.0 37.7 56.5#



#60

o-Xylene

Concen: 0.151 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. -0.003 min

Lab File: VL040813.D

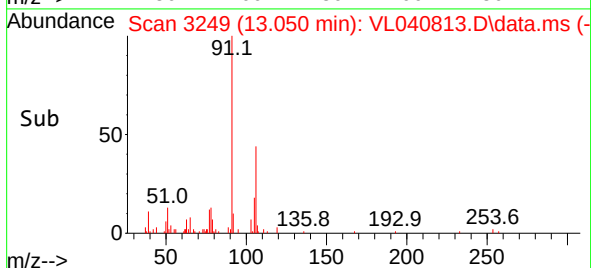
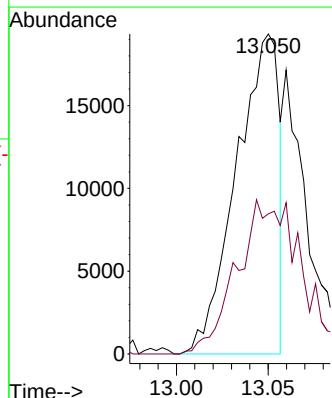
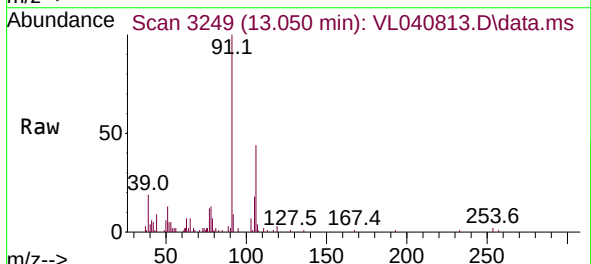
Acq: 8 Nov 2023 16:38

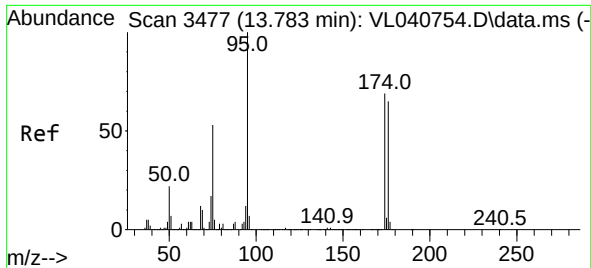
Tgt Ion: 91 Resp: 31235

Ion Ratio Lower Upper

91 100

106 73.9 23.5 70.5#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.632 ppbv
 RT: 13.764 min Scan# 34
 Delta R.T. -0.006 min
 Lab File: VL040813.D
 Acq: 8 Nov 2023 16:38

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Tgt Ion: 95 Resp: 1483782

Ion	Ratio	Lower	Upper
95	100		
174	62.0	54.7	82.1
175	4.8	4.2	6.4

