

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040523\
 Data File : VL040313.D
 Acq On : 5 Apr 2023 12:19
 Operator : SY/MD
 Sample : 02168-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Apr 06 07:50:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.166	49	989296	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.632	114	2438838	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.449	117	2120433	10.000	ppbv	-0.03

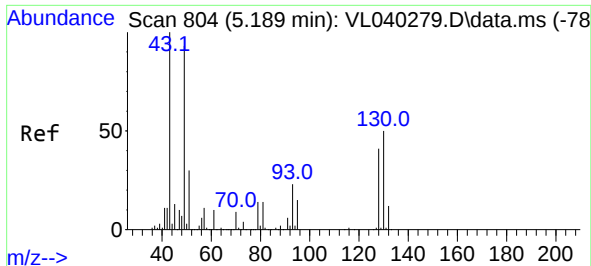
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1742650	9.814	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%

Target Compounds						Qvalue
3) Chlorodifluoromethane	2.983	51	12900	0.104	ppbv #	56
4) Chloromethane	2.787	50	31737	0.413	ppbv	93
5) Vinyl Chloride	2.678	62	2337	0.038	ppbv	95
6) Bromomethane	3.096	94	734	0.034	ppbv #	24
9) Propene	2.848	41	74212	1.557	ppbv	95
11) Trichlorofluoromethane	3.536	101	22909	0.130	ppbv	98
13) Ethanol	3.215	45	213566	61.101	ppbv	100
15) Acetone	3.440	43	1615387	13.412	ppbv	100
16) 1,3-Butadiene	2.944	39	3162	0.058	ppbv #	10
19) Isopropyl Alcohol	3.555	45	318209	5.515	ppbv #	96
20) Methylene Chloride	3.909	84	1577749	31.139	ppbv	99
23) Vinyl Acetate	4.591	43	16928	0.505	ppbv #	48
25) Ethyl Acetate	5.189	43	701202	3.110	ppbv #	76
26) Hexane	5.189	57	1036402	11.198	ppbv #	35
34) 2-Butanone	4.767	43	31272	0.260	ppbv	93
36) Benzene	6.346	78	40916	0.220	ppbv #	91
39) 1,2-Dichloropropane	6.632	63	609156	8.354	ppbv #	24
41) Tetrahydrofuran	5.192	42	381522	5.492	ppbv #	49
53) Toluene	9.201	91	90852	0.466	ppbv	99
59) m/p-Xylene	12.356	91	7190	0.033	ppbv #	33

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

Quant Time: Apr 06 07:50:26 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration

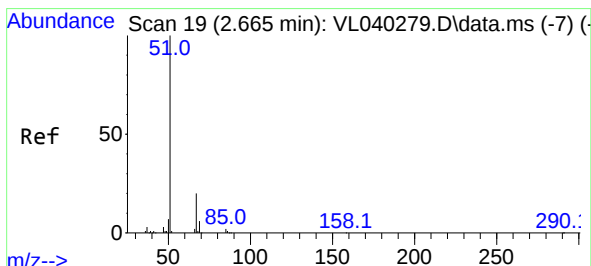
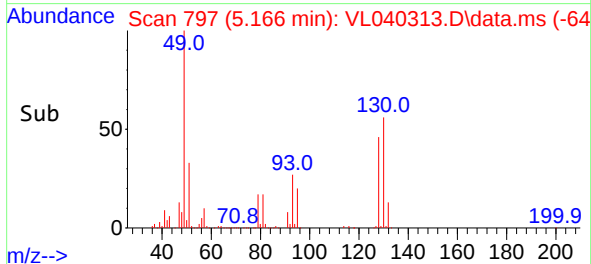
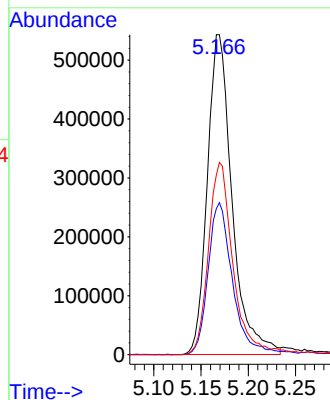
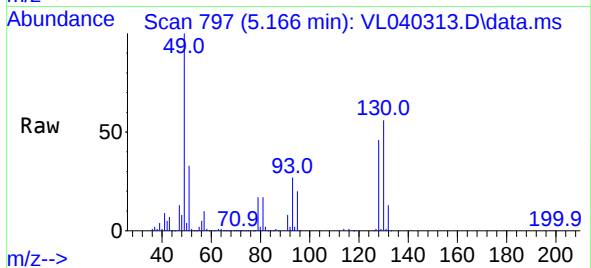




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.166 min Scan# 79
Delta R.T. -0.023 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

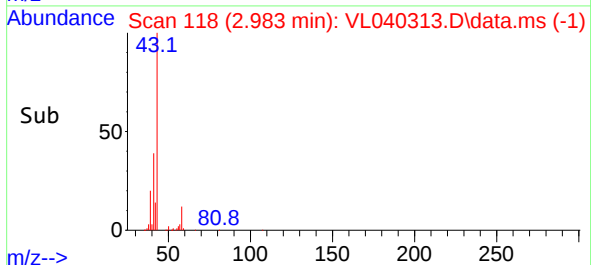
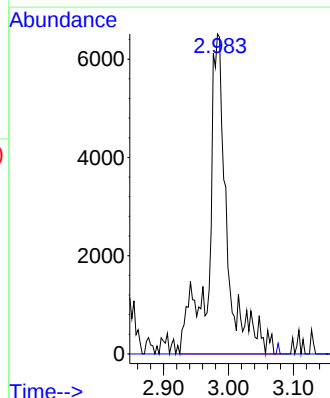
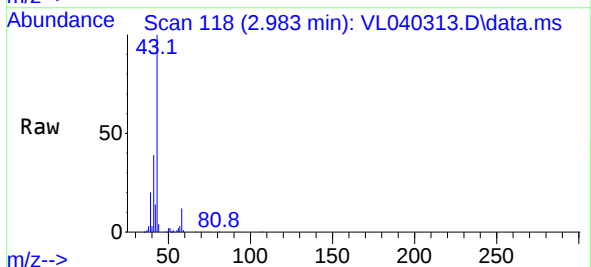
Instrument :
MSVOA_L
ClientSampleId :
OA1

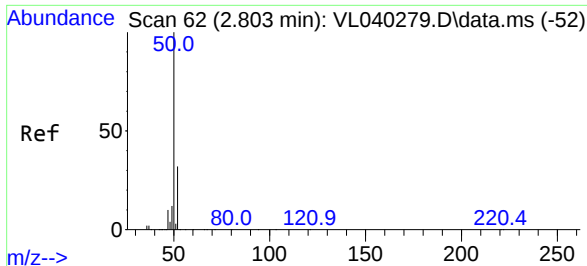
Tgt Ion: 49 Resp: 989296
Ion Ratio Lower Upper
49 100
128 48.1 22.4 67.3
130 61.4 28.7 86.1



#3
Chlorodifluoromethane
Concen: 0.104 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.318 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 51 Resp: 12900
Ion Ratio Lower Upper
51 100
67 0.0 16.0 24.0#

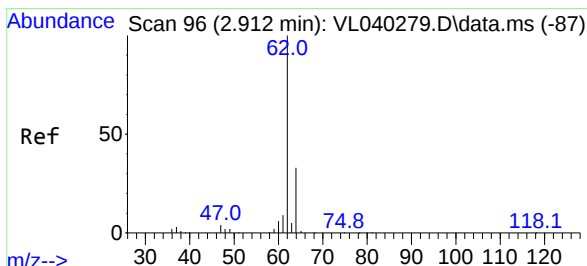
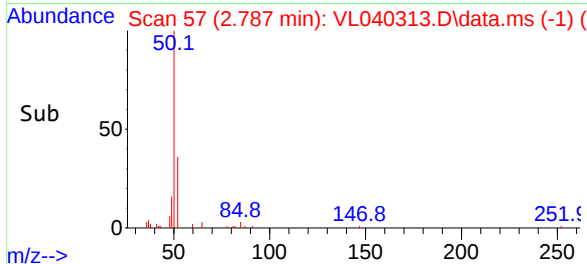
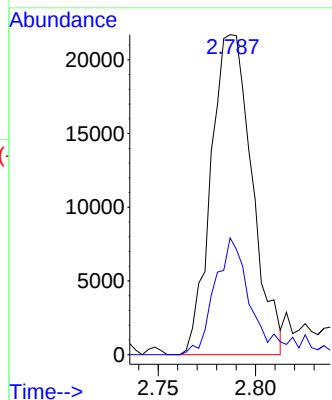
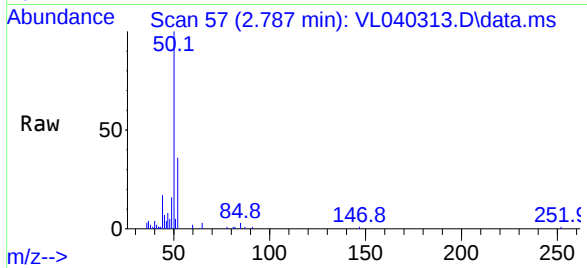




#4
Chloromethane
Concen: 0.413 ppbv
RT: 2.787 min Scan# 51
Delta R.T. -0.016 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

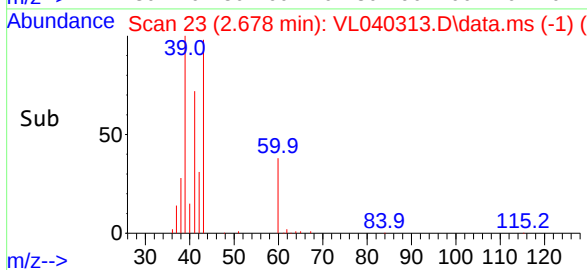
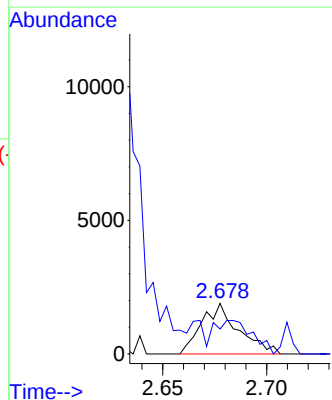
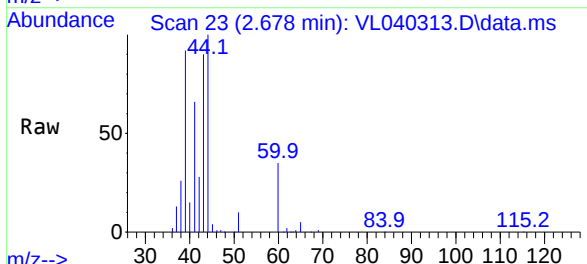
Instrument :
MSVOA_L
ClientSampleId :
OA1

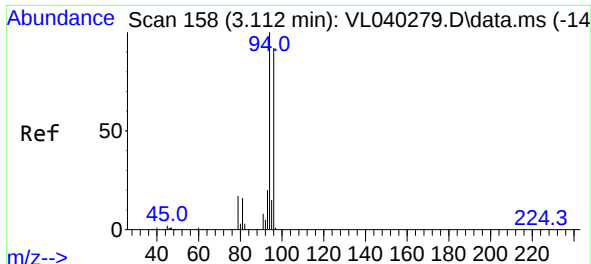
Tgt Ion: 50 Resp: 31737
Ion Ratio Lower Upper
50 100
52 36.5 25.9 38.9



#5
Vinyl Chloride
Concen: 0.038 ppbv
RT: 2.678 min Scan# 23
Delta R.T. -0.234 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 62 Resp: 2337
Ion Ratio Lower Upper
62 100
64 35.6 26.4 39.6

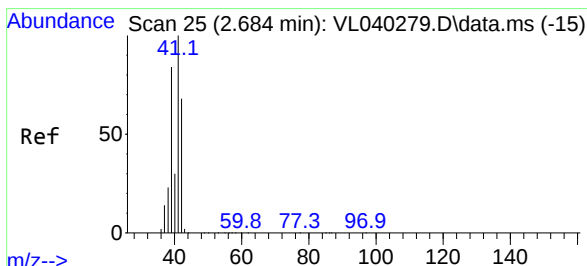
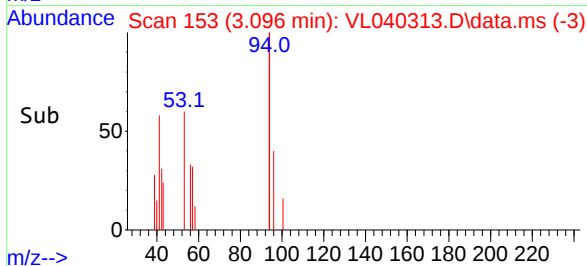
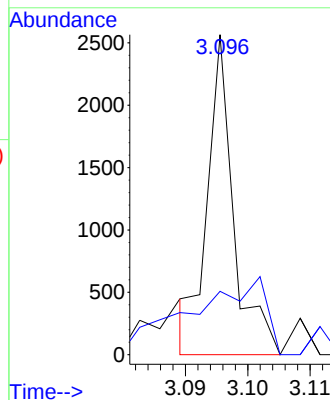
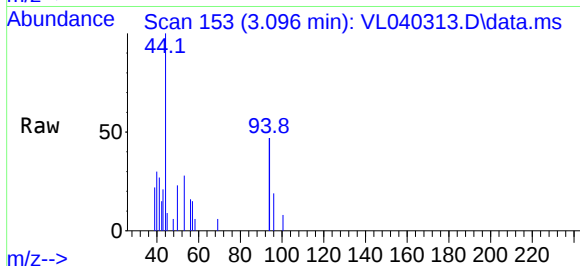




#6
Bromomethane
Concen: 0.034 ppbv
RT: 3.096 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

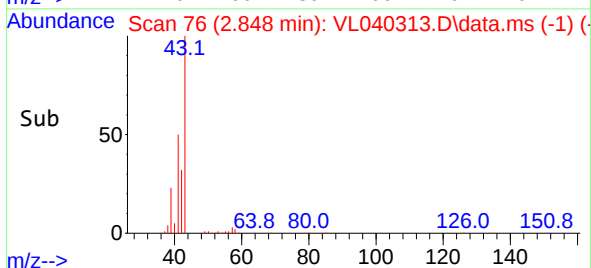
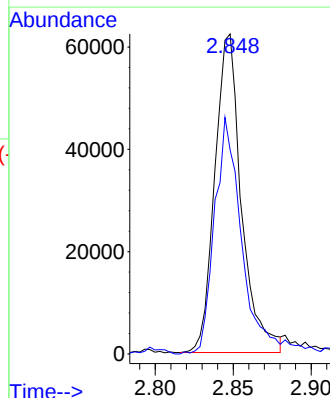
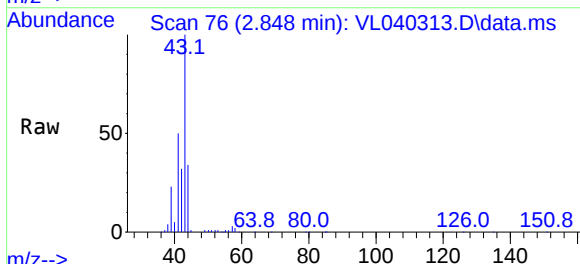
Instrument :
MSVOA_L
ClientSampleId :
OA1

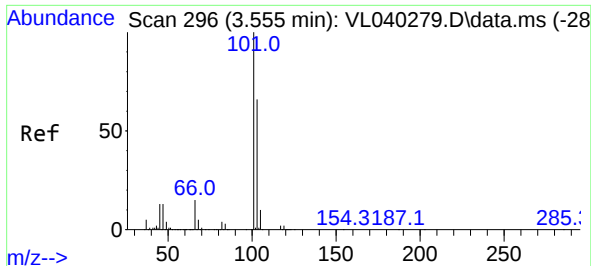
Tgt Ion: 94 Resp: 734
Ion Ratio Lower Upper
94 100
96 19.8 73.7 110.5#



#9
Propene
Concen: 1.557 ppbv
RT: 2.848 min Scan# 76
Delta R.T. 0.164 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 41 Resp: 74212
Ion Ratio Lower Upper
41 100
42 78.1 59.0 88.4

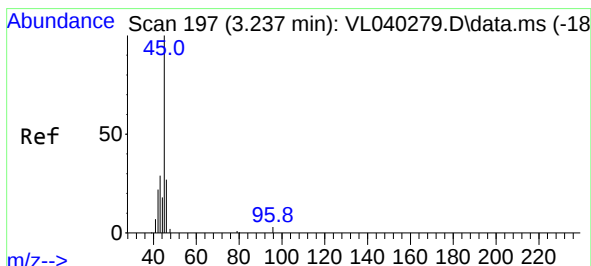
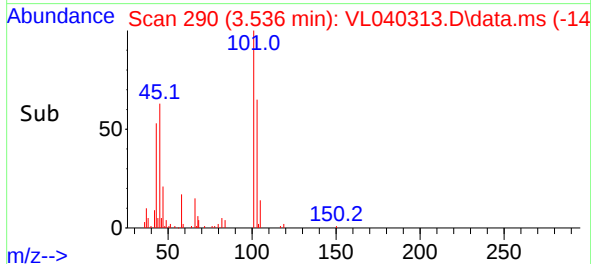
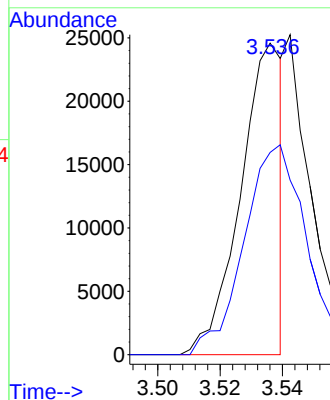
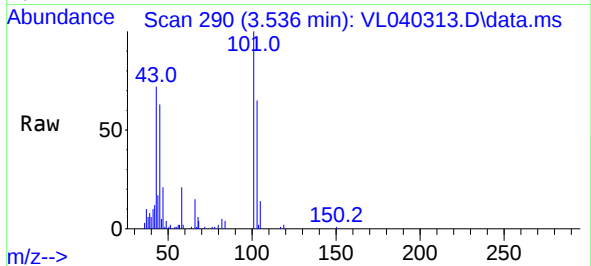




#11
Trichlorofluoromethane
Concen: 0.130 ppbv
RT: 3.536 min Scan# 24
Delta R.T. -0.019 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

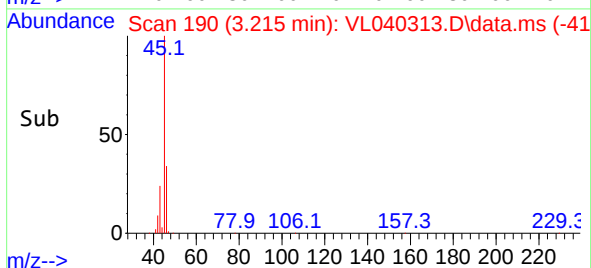
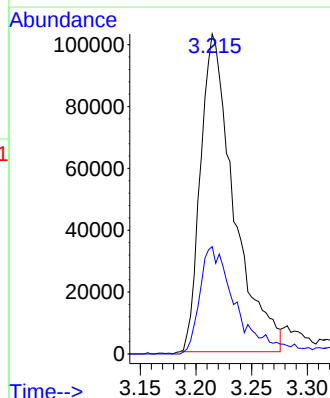
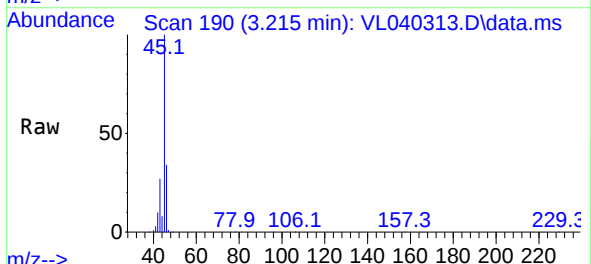
Instrument :
MSVOA_L
ClientSampleId :
OA1

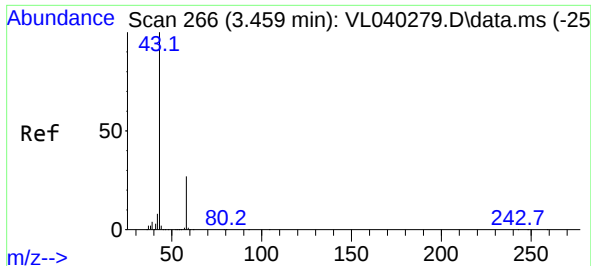
Tgt Ion:101 Resp: 22909
Ion Ratio Lower Upper
101 100
103 64.9 53.1 79.7



#13
Ethanol
Concen: 61.101 ppbv
RT: 3.215 min Scan# 190
Delta R.T. -0.022 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 45 Resp: 213566
Ion Ratio Lower Upper
45 100
46 37.4 15.0 60.2

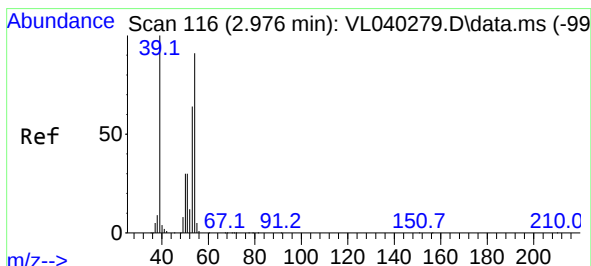
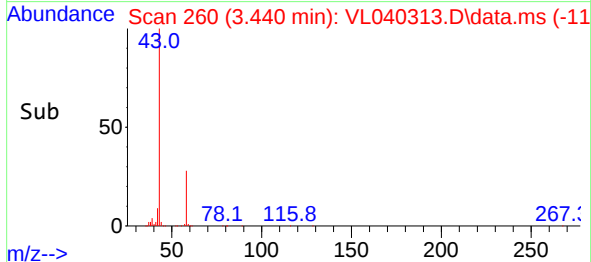
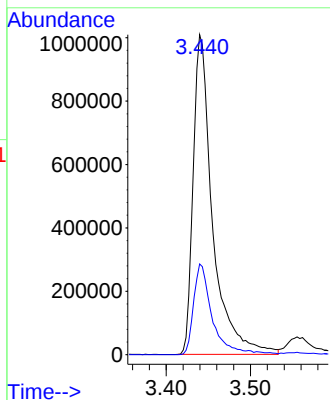
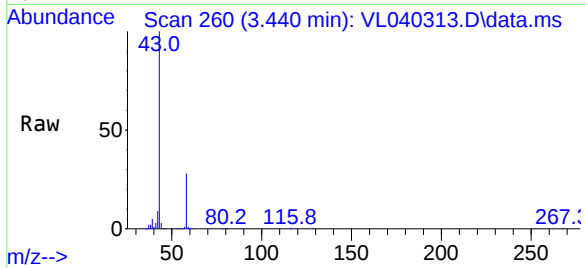




#15
Acetone
Concen: 13.412 ppbv
RT: 3.440 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

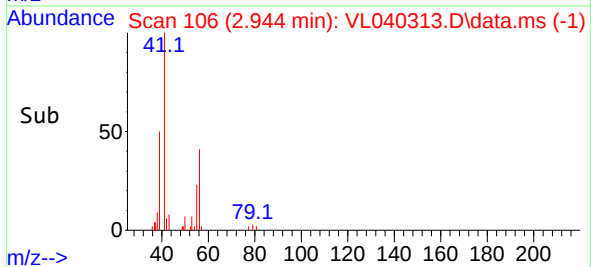
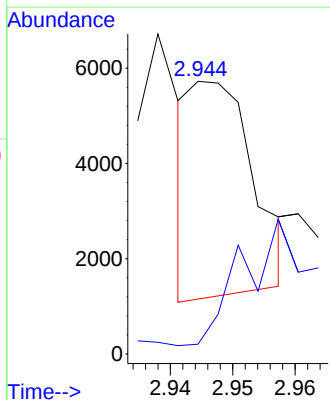
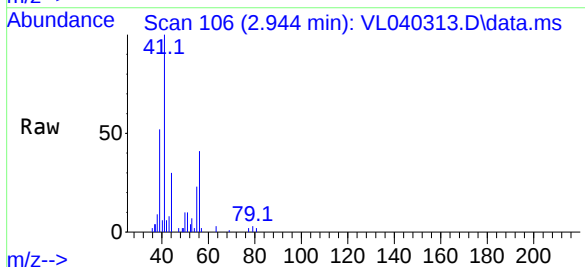
Instrument :
MSVOA_L
ClientSampleId :
OA1

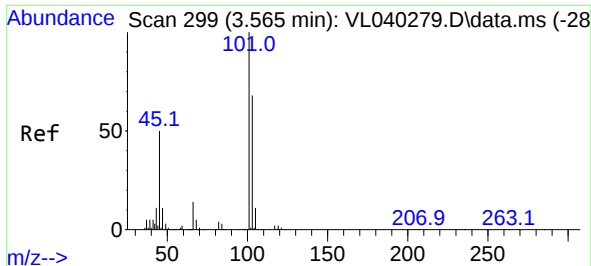
Tgt Ion: 43 Resp: 1615387
Ion Ratio Lower Upper
43 100
58 27.4 21.8 32.8



#16
1,3-Butadiene
Concen: 0.058 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.032 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 39 Resp: 3162
Ion Ratio Lower Upper
39 100
54 168.1 68.4 102.6#

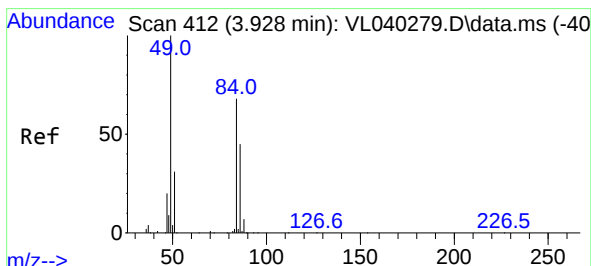
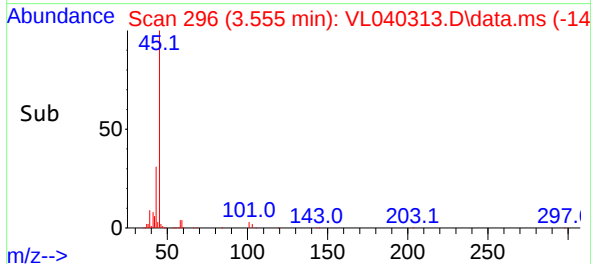
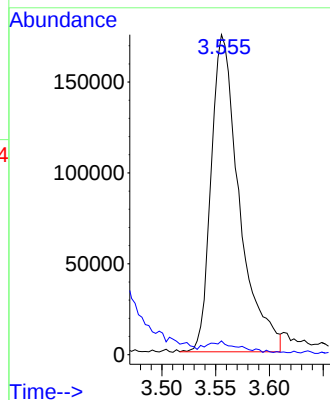
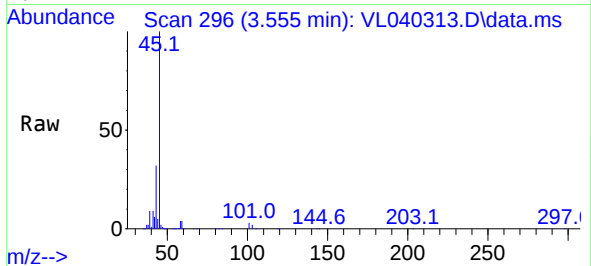




#19
Isopropyl Alcohol
Concen: 5.515 ppbv
RT: 3.555 min Scan# 299
Delta R.T. -0.010 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

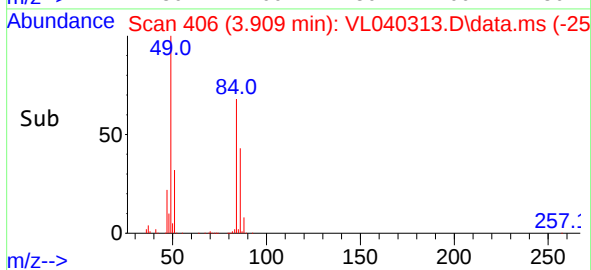
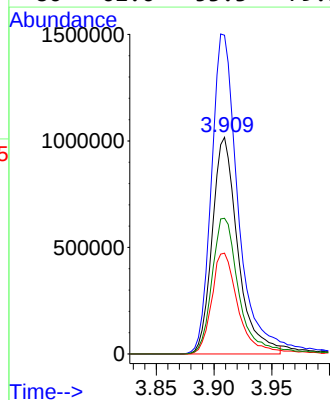
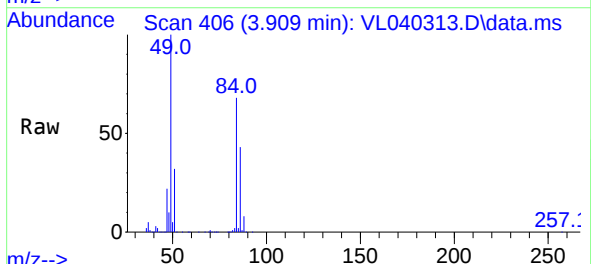
Instrument :
MSVOA_L
ClientSampleId :
OA1

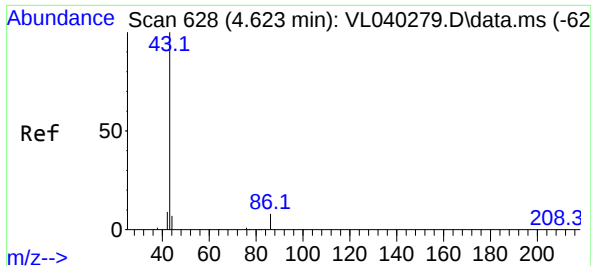
Tgt Ion: 45 Resp: 318209
Ion Ratio Lower Upper
45 100
58 4.8 2.7 4.1#



#20
Methylene Chloride
Concen: 31.139 ppbv
RT: 3.909 min Scan# 406
Delta R.T. -0.019 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 84 Resp: 1577749
Ion Ratio Lower Upper
84 100
49 147.1 117.5 176.3
51 46.5 36.9 55.3
86 62.6 53.3 79.9



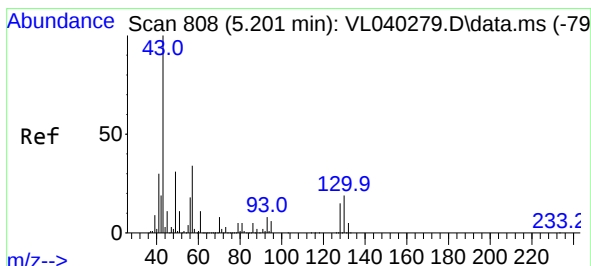
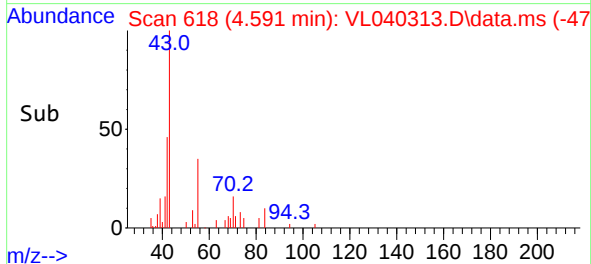
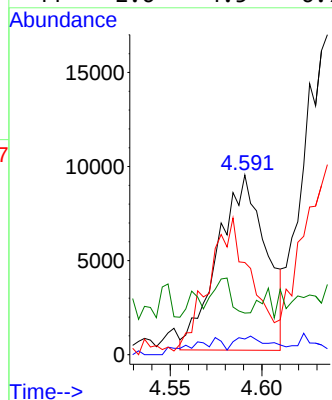
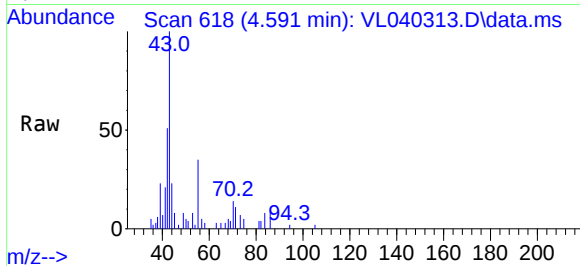


#23
 Vinyl Acetate
 Concen: 0.505 ppbv
 RT: 4.591 min Scan# 61
 Delta R.T. -0.032 min
 Lab File: VL040313.D
 Acq: 5 Apr 2023 12:19

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 43 Resp: 16928

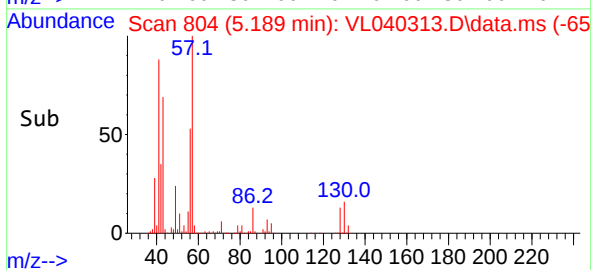
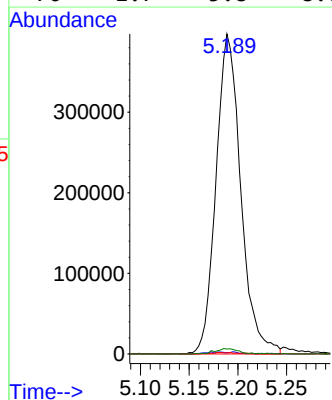
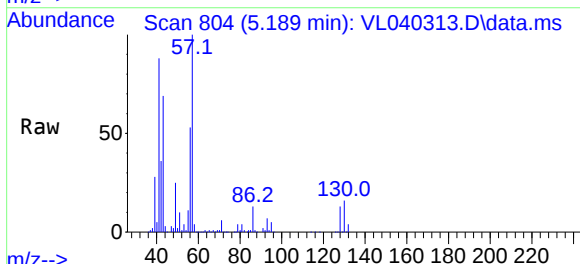
Ion	Ratio	Lower	Upper
43	100		
86	5.8	5.0	7.4
42	49.7	9.1	13.7#
44	2.6	4.5	6.7#

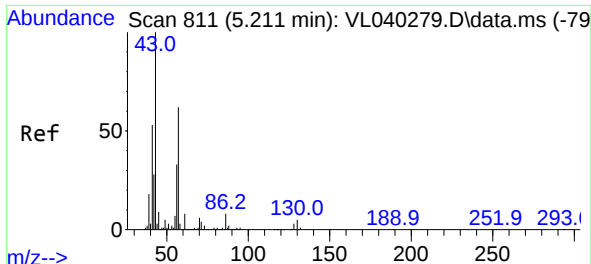


#25
 Ethyl Acetate
 Concen: 3.110 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. -0.012 min
 Lab File: VL040313.D
 Acq: 5 Apr 2023 12:19

Tgt Ion: 43 Resp: 701202

Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.6	12.8#
61	0.5	8.4	12.6#
70	1.7	5.8	8.6#



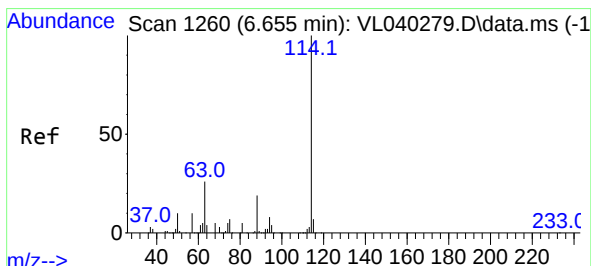
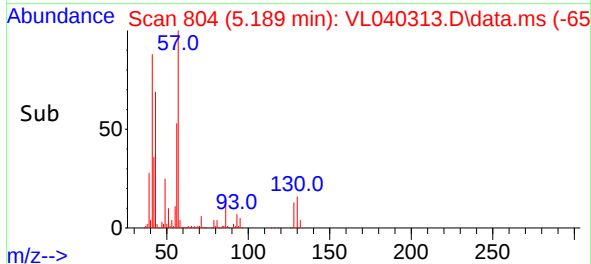
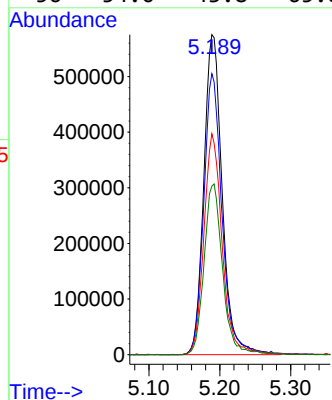
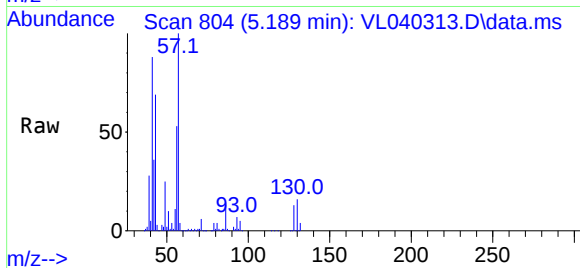


#26
Hexane
Concen: 11.198 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.022 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 57 Resp: 1036402

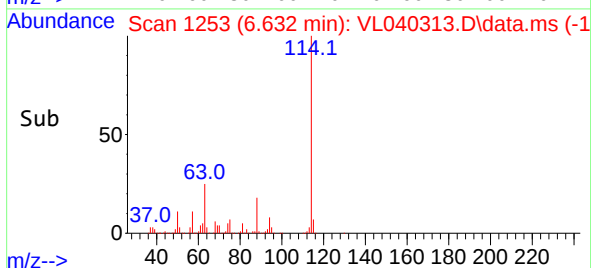
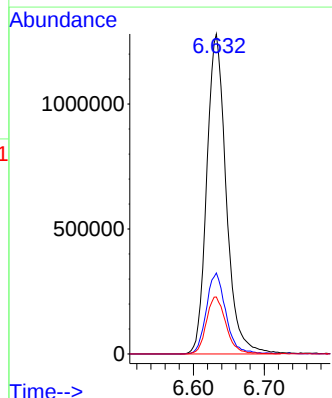
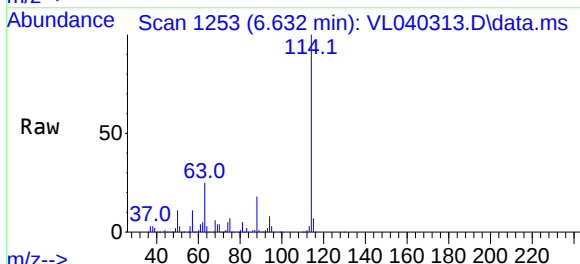
Ion	Ratio	Lower	Upper
57	100		
41	88.0	73.5	110.3
43	69.2	196.3	294.5#
56	54.0	43.8	65.8

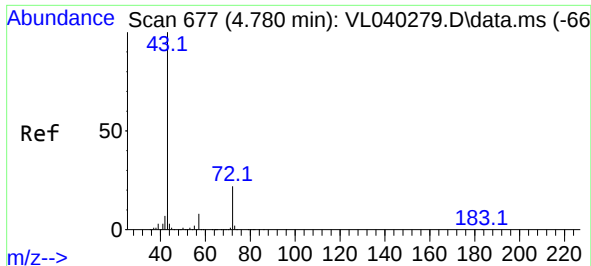


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.023 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 114 Resp: 2438838

Ion	Ratio	Lower	Upper
114	100		
63	25.7	21.2	31.8
88	18.2	14.5	21.7

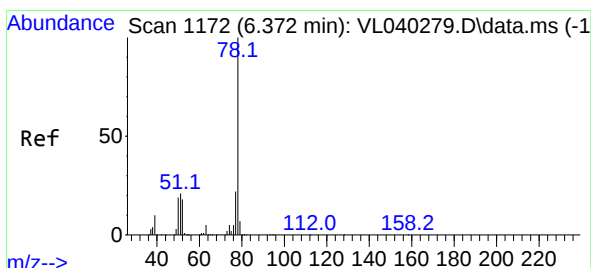
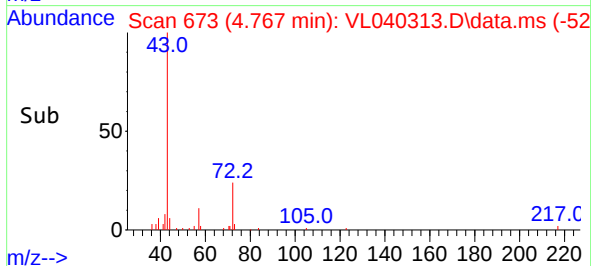
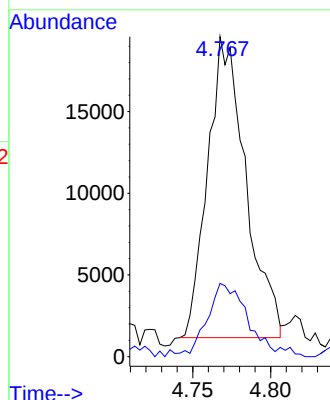
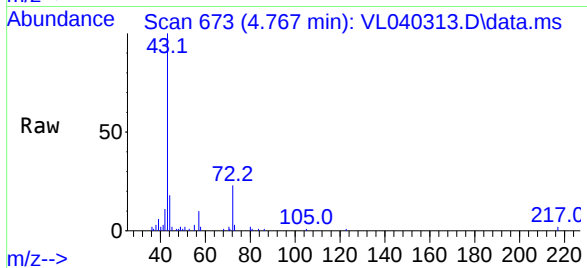




#34
2-Butanone
Concen: 0.260 ppbv
RT: 4.767 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

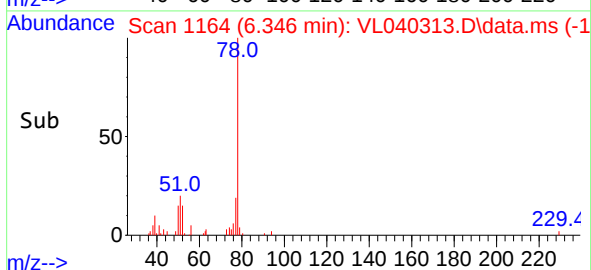
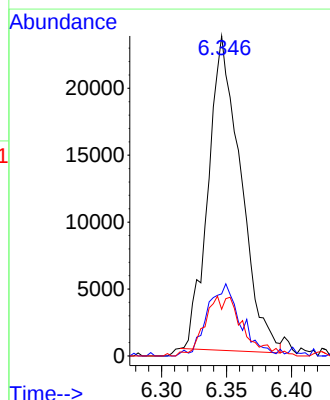
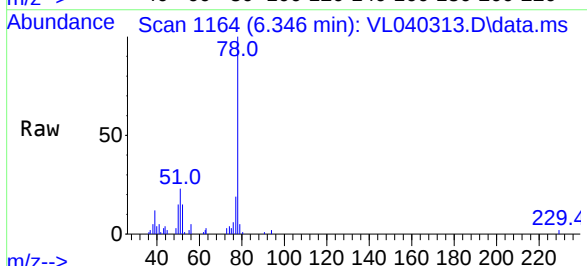
Instrument :
MSVOA_L
ClientSampleId :
OA1

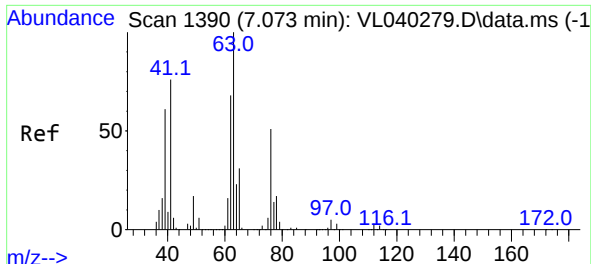
Tgt Ion: 43 Resp: 31272
Ion Ratio Lower Upper
43 100
72 26.3 18.3 27.5



#36
Benzene
Concen: 0.220 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. -0.026 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 78 Resp: 40916
Ion Ratio Lower Upper
78 100
77 19.0 17.8 26.8
50 14.0 15.4 23.2#

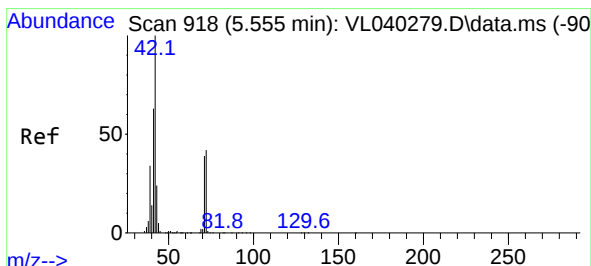
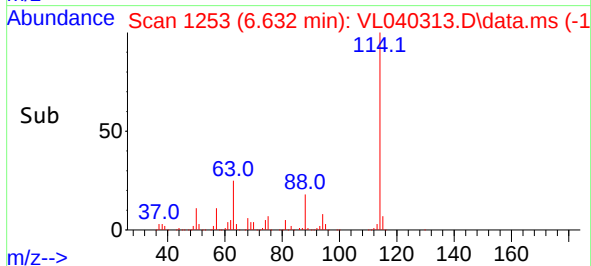
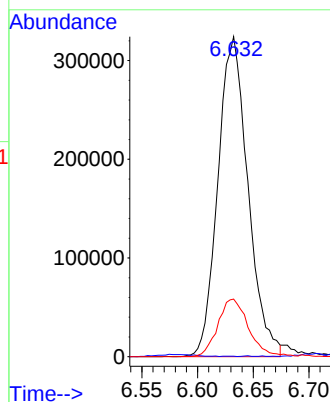
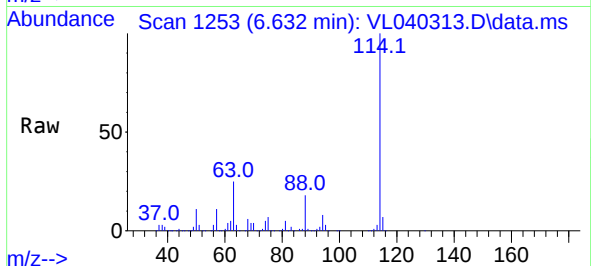




#39
1,2-Dichloropropane
Concen: 8.354 ppbv
RT: 6.632 min Scan# 11
Delta R.T. -0.441 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

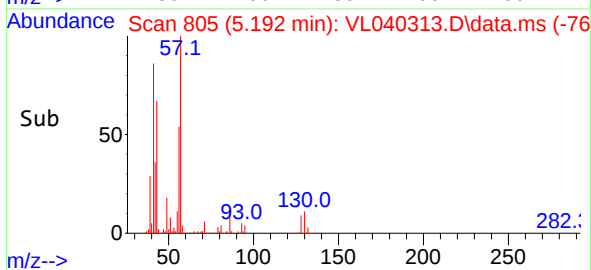
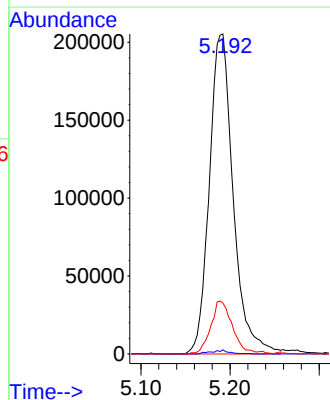
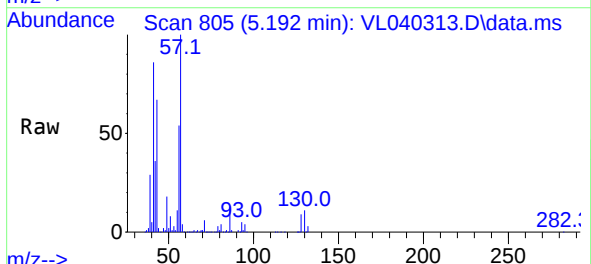
Instrument :
MSVOA_L
ClientSampleId :
OA1

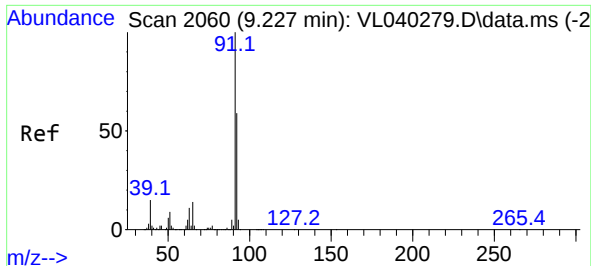
Tgt Ion: 63 Resp: 609156
Ion Ratio Lower Upper
63 100
41 0.0 60.8 91.2#
62 17.9 54.1 81.1#



#41
Tetrahydrofuran
Concen: 5.492 ppbv
RT: 5.192 min Scan# 805
Delta R.T. -0.363 min
Lab File: VL040313.D
Acq: 5 Apr 2023 12:19

Tgt Ion: 42 Resp: 381522
Ion Ratio Lower Upper
42 100
72 0.9 32.6 49.0#
71 15.4 31.0 46.4#





#53

Toluene

Concen: 0.466 ppbv

RT: 9.201 min Scan# 2060

Delta R.T. -0.026 min

Lab File: VL040313.D

Acq: 5 Apr 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

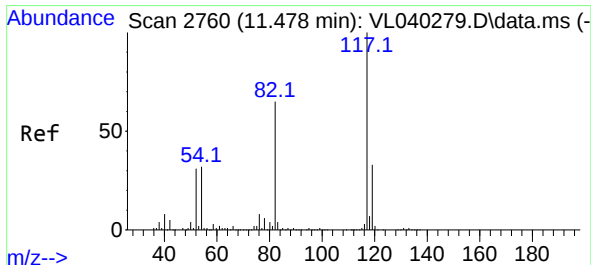
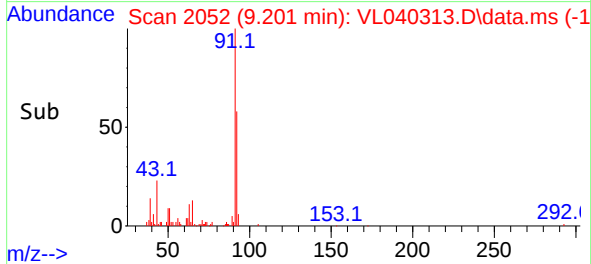
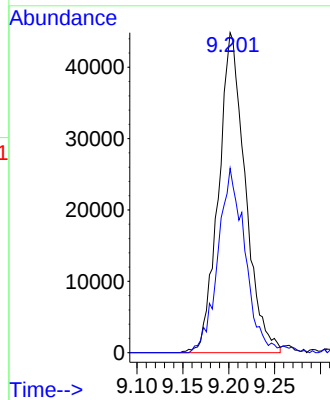
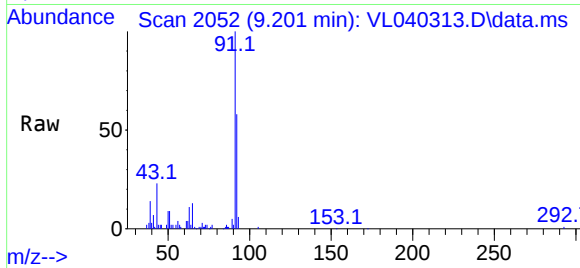
OA1

Tgt Ion: 91 Resp: 90852

Ion Ratio Lower Upper

91 100

92 59.3 48.0 72.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.449 min Scan# 2751

Delta R.T. -0.029 min

Lab File: VL040313.D

Acq: 5 Apr 2023 12:19

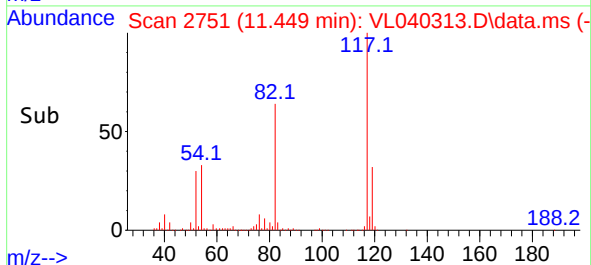
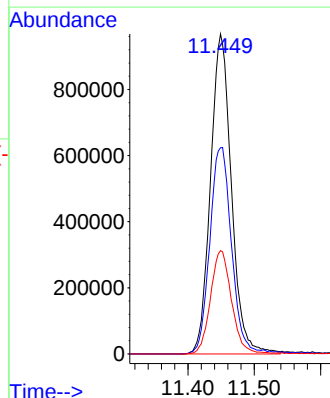
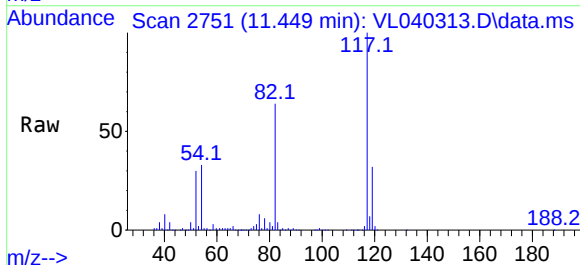
Tgt Ion: 117 Resp: 2120433

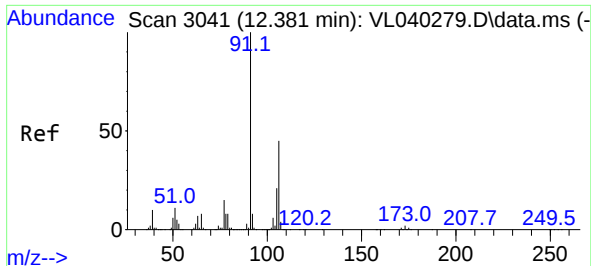
Ion Ratio Lower Upper

117 100

82 68.3 51.4 77.2

119 32.8 24.0 36.0





#59

m/p-Xylene

Concen: 0.033 ppbv

RT: 12.356 min Scan# 3041

Delta R.T. -0.025 min

Lab File: VL040313.D

Acq: 5 Apr 2023 12:19

Instrument :

MSVOA_L

ClientSampleId :

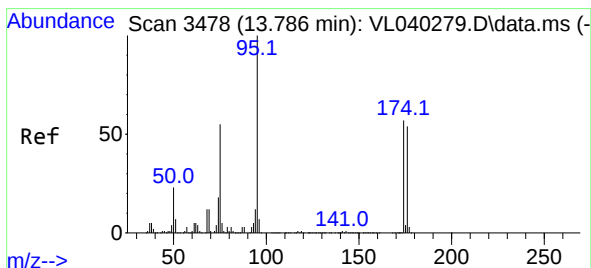
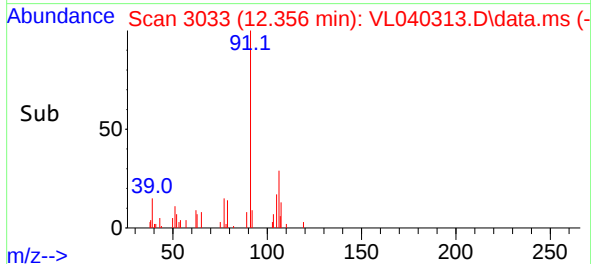
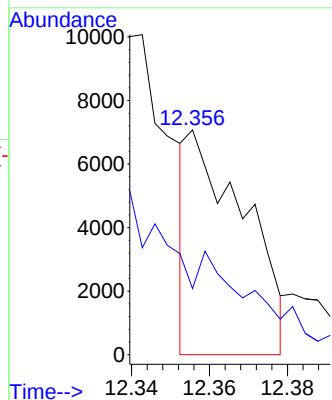
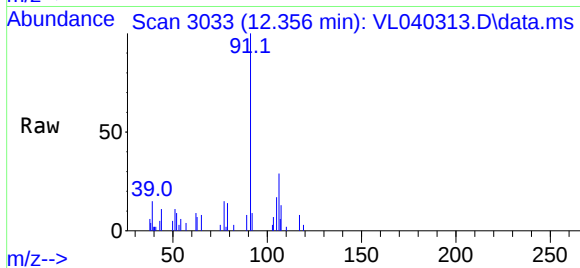
OA1

Tgt Ion: 91 Resp: 7190

Ion Ratio Lower Upper

91 100

106 0.0 34.0 51.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.814 ppbv

RT: 13.761 min Scan# 3470

Delta R.T. -0.025 min

Lab File: VL040313.D

Acq: 5 Apr 2023 12:19

Tgt Ion: 95 Resp: 1742650

Ion Ratio Lower Upper

95 100

174 59.2 47.0 70.6

175 4.4 3.4 5.2

