

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
 Data File : VL040298.D
 Acq On : 16 Mar 2023 16:36
 Operator : SY/MD
 Sample : 01933-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-3DL

Quant Time: Mar 17 04:15:17 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)

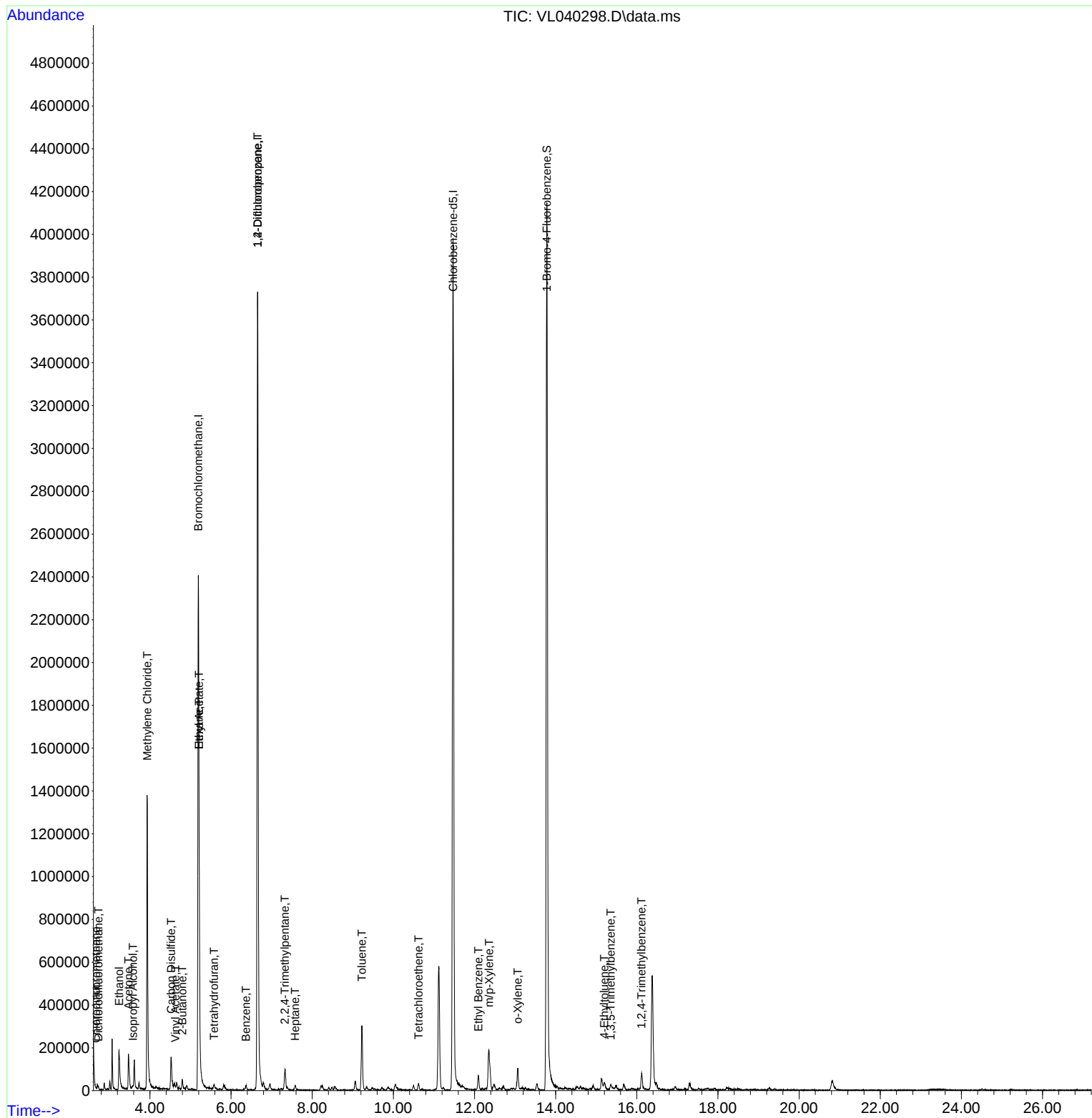
Internal Standards						
1) Bromochloromethane	5.192	49	1100035	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2790686	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2524618	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2093284	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	9398	0.044	ppbv	90
3) Chlorodifluoromethane	2.674	51	4735	0.034	ppbv #	86
10) Heptane	7.581	43	7407	0.058	ppbv	87
13) Ethanol	3.240	45	220857	56.826	ppbv	96
15) Acetone	3.472	43	168842	1.261	ppbv	97
19) Isopropyl Alcohol	3.581	45	6627	0.103	ppbv #	35
20) Methylene Chloride	3.935	84	483642	8.584	ppbv	97
23) Vinyl Acetate	4.629	43	1484	0.040	ppbv #	80
25) Ethyl Acetate	5.211	43	177894	0.710	ppbv #	80
26) Hexane	5.211	57	237650	2.309	ppbv #	39
27) Carbon Disulfide	4.520	76	10948	0.076	ppbv #	66
34) 2-Butanone	4.796	43	44375	0.322	ppbv #	82
36) Benzene	6.369	78	8294	0.039	ppbv #	79
39) 1,2-Dichloropropane	6.655	63	695141	8.331	ppbv #	23
41) Tetrahydrofuran	5.578	42	7722	0.097	ppbv #	46
44) 2,2,4-Trimethylpentane	7.327	57	79218	0.223	ppbv #	82
52) Tetrachloroethene	10.623	164	2767	0.043	ppbv	90
53) Toluene	9.224	91	207501	0.931	ppbv	100
58) Ethyl Benzene	12.098	91	52107	0.181	ppbv	90
59) m/p-Xylene	12.359	91	111816	0.425	ppbv #	47
60) o-Xylene	13.066	91	53120	0.211	ppbv	72
72) 4-Ethyltoluene	15.201	105	17412	0.063	ppbv #	86
73) 1,3,5-Trimethylbenzene	15.359	105	8096	0.032	ppbv	96
74) 1,2,4-Trimethylbenzene	16.117	105	50118	0.176	ppbv #	73

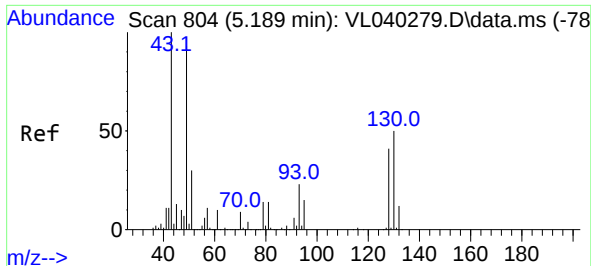
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 17 04:15:17 2023
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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

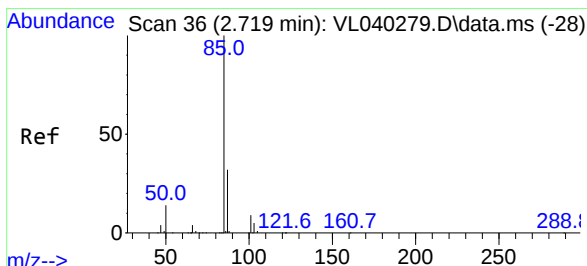
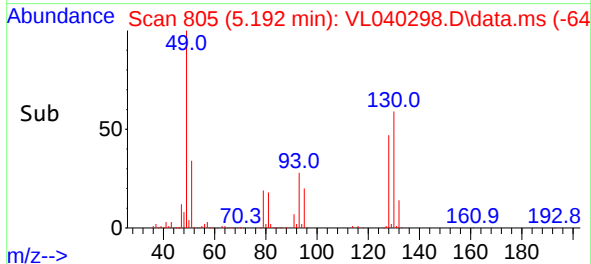
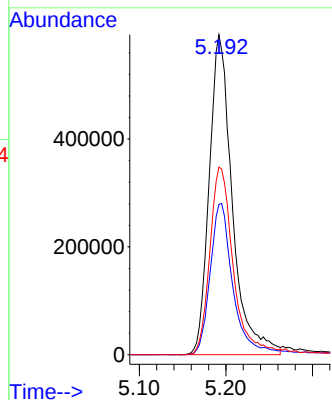
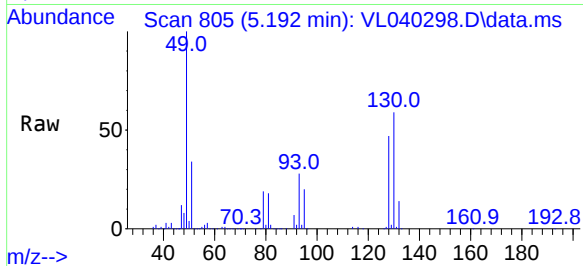




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

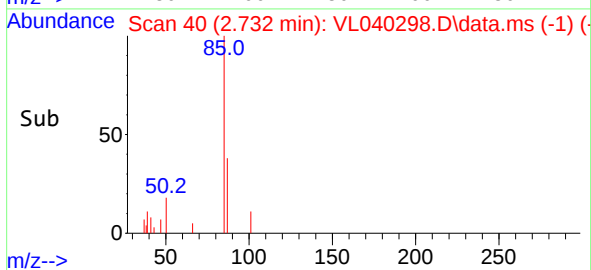
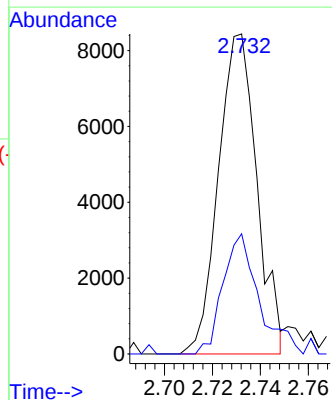
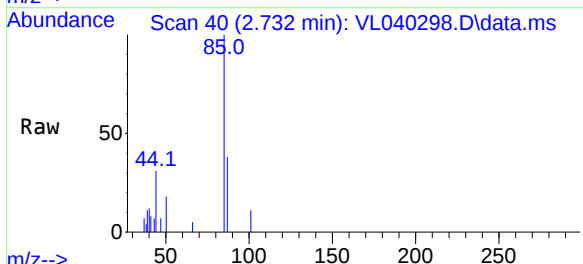
Instrument :
MSVOA_L
ClientSampleId :
SSSG-3DL

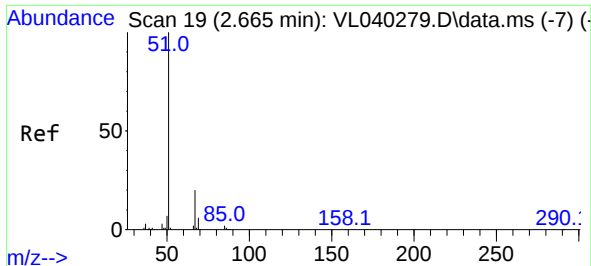
Tgt Ion: 49 Resp: 1100035
Ion Ratio Lower Upper
49 100
128 48.0 22.4 67.3
130 61.7 28.7 86.1



#2
Dichlorodifluoromethane
Concen: 0.044 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.013 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 85 Resp: 9398
Ion Ratio Lower Upper
85 100
87 37.5 25.5 38.3

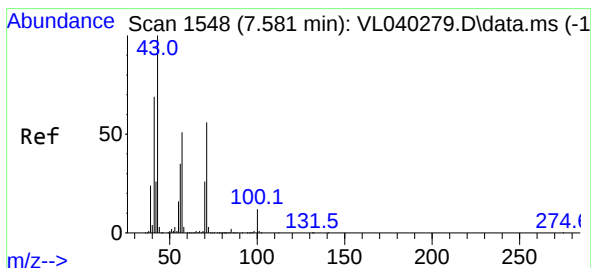
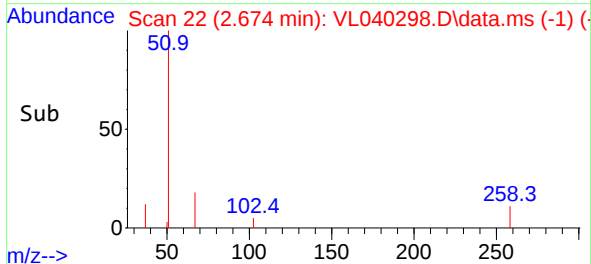
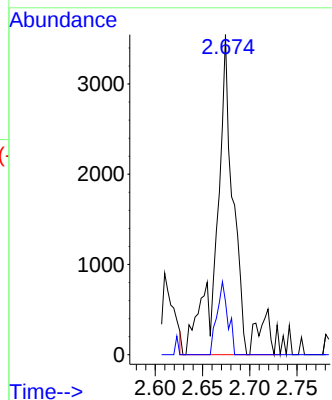
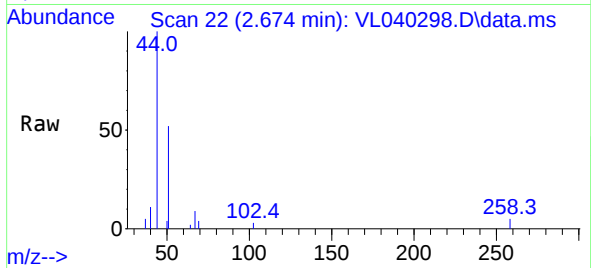




#3
Chlorodifluoromethane
Concen: 0.034 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

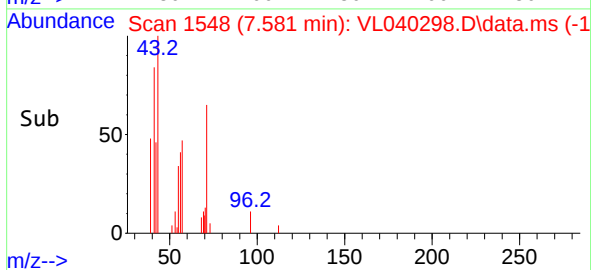
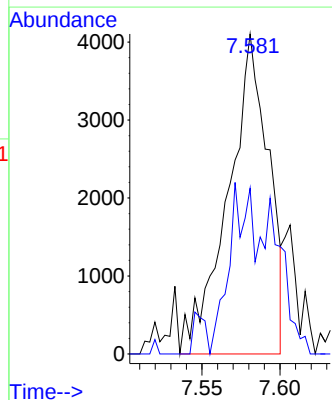
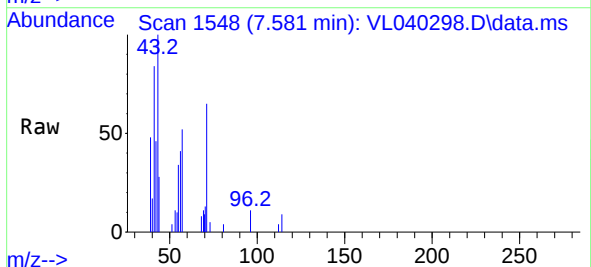
Instrument :
MSVOA_L
ClientSampleId :
SSSG-3DL

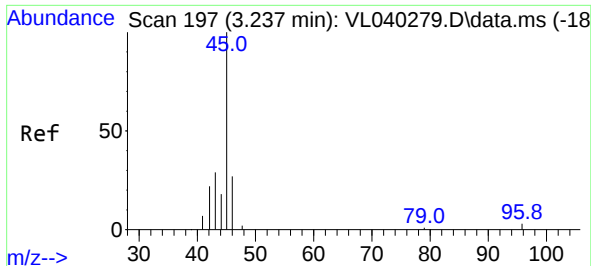
Tgt Ion: 51 Resp: 4735
Ion Ratio Lower Upper
51 100
67 13.7 16.0 24.0#



#10
Heptane
Concen: 0.058 ppbv
RT: 7.581 min Scan# 1548
Delta R.T. -0.000 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 43 Resp: 7407
Ion Ratio Lower Upper
43 100
57 61.2 41.7 62.5

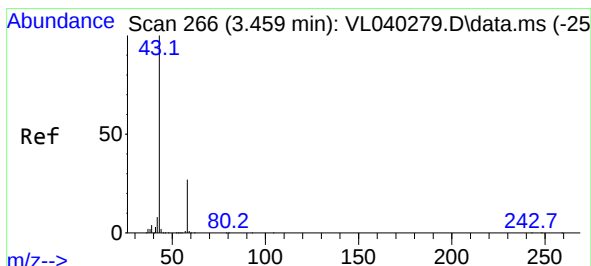
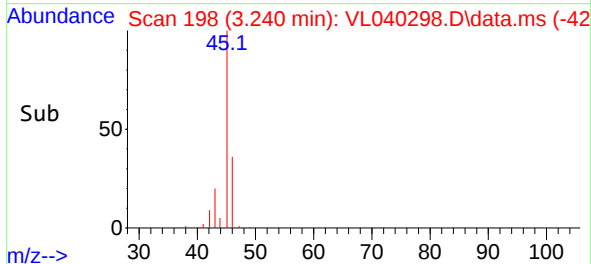
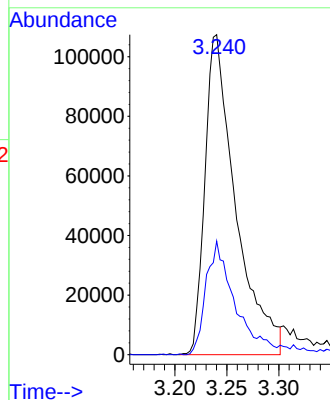
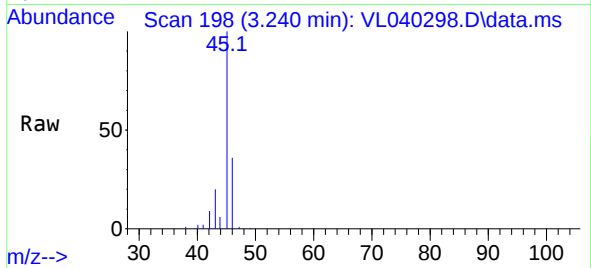




#13
Ethanol
Concen: 56.826 ppbv
RT: 3.240 min Scan# 19
Delta R.T. 0.003 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

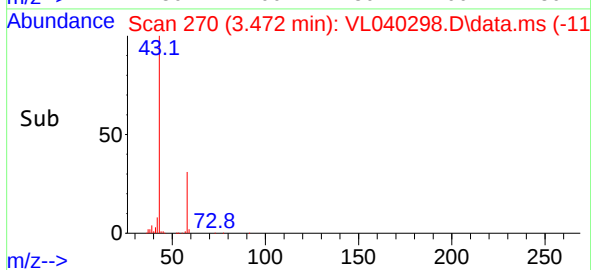
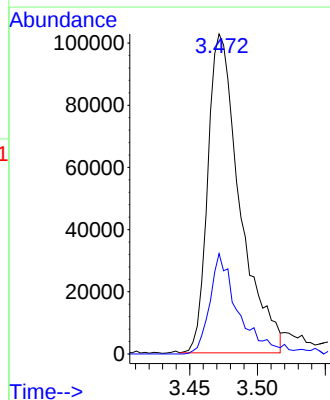
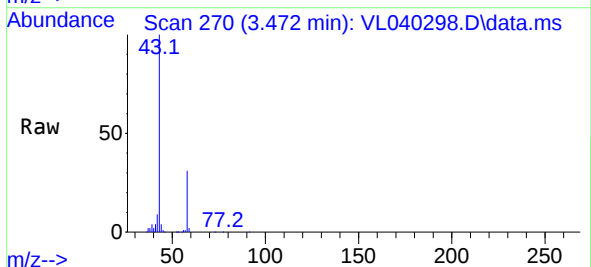
Instrument :
MSVOA_L
ClientSampleId :
SSSG-3DL

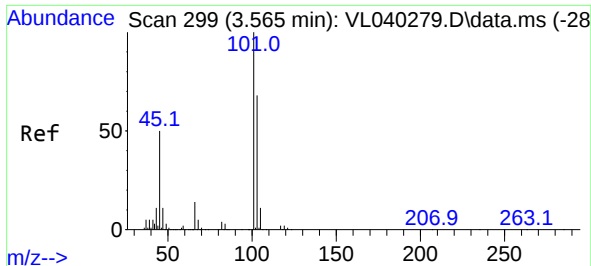
Tgt Ion: 45 Resp: 220857
Ion Ratio Lower Upper
45 100
46 35.5 15.0 60.2



#15
Acetone
Concen: 1.261 ppbv
RT: 3.472 min Scan# 270
Delta R.T. 0.013 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 43 Resp: 168842
Ion Ratio Lower Upper
43 100
58 28.8 21.8 32.8





#19

Isopropyl Alcohol

Concen: 0.103 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.016 min

Lab File: VL040298.D

Acq: 16 Mar 2023 16:36

Instrument :

MSVOA_L

ClientSampleId :

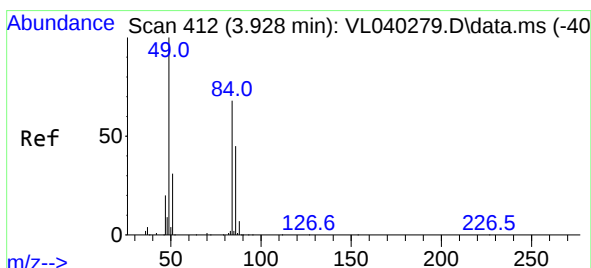
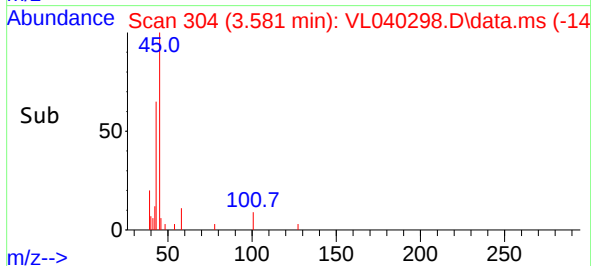
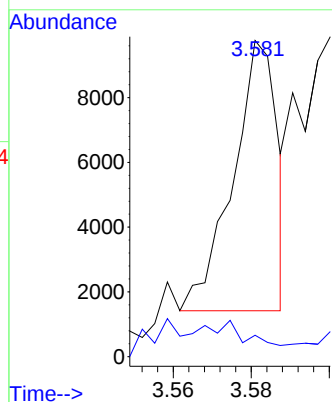
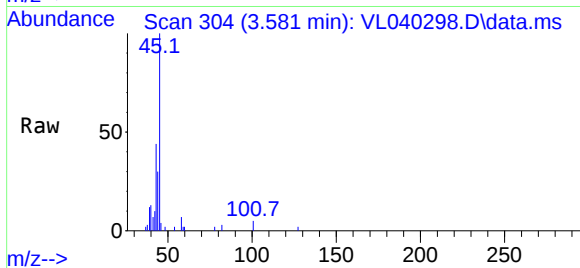
SSSG-3DL

Tgt Ion: 45 Resp: 6627

Ion Ratio Lower Upper

45 100

58 24.7 2.7 4.1#



#20

Methylene Chloride

Concen: 8.584 ppbv

RT: 3.935 min Scan# 414

Delta R.T. 0.007 min

Lab File: VL040298.D

Acq: 16 Mar 2023 16:36

Tgt Ion: 84 Resp: 483642

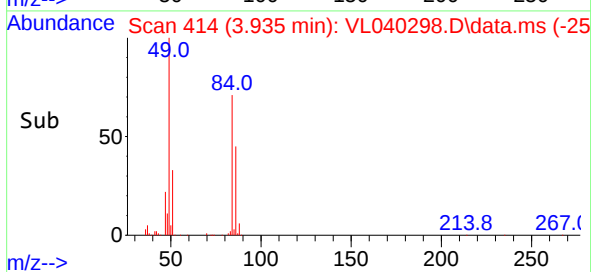
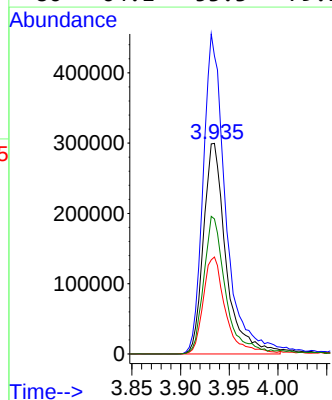
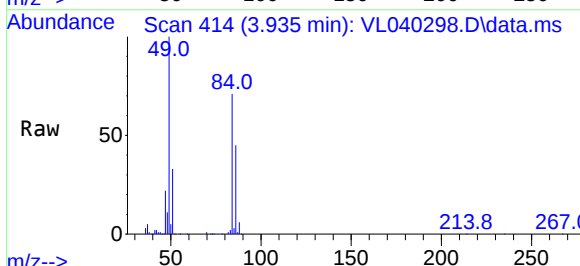
Ion Ratio Lower Upper

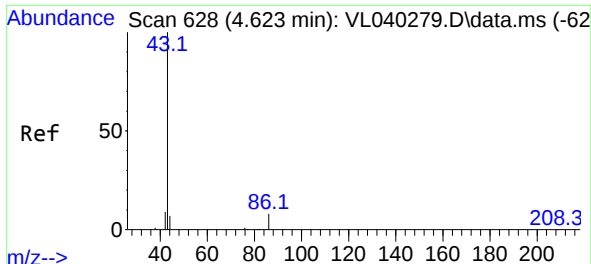
84 100

49 141.5 117.5 176.3

51 45.9 36.9 55.3

86 64.1 53.3 79.9



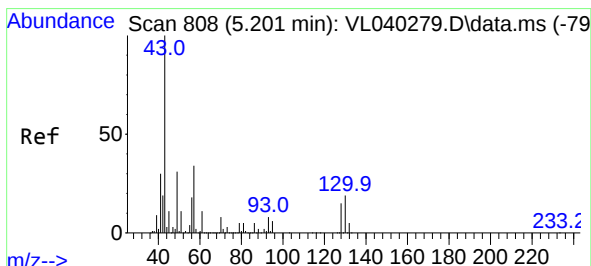
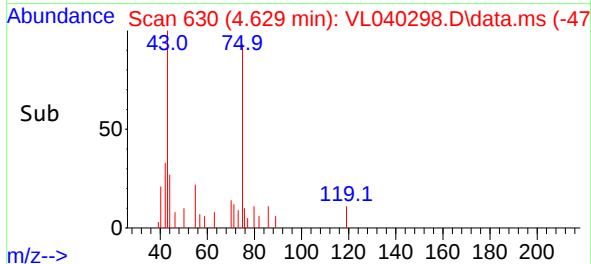
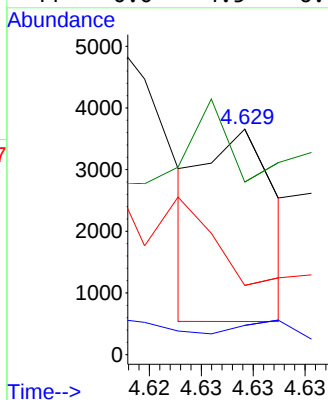
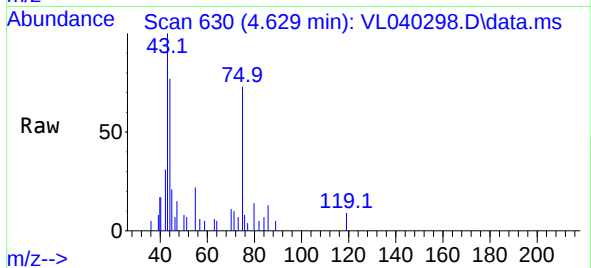


#23
 Vinyl Acetate
 Concen: 0.040 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL040298.D
 Acq: 16 Mar 2023 16:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-3DL

Tgt Ion: 43 Resp: 1484

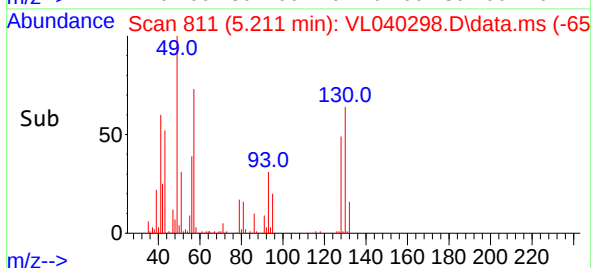
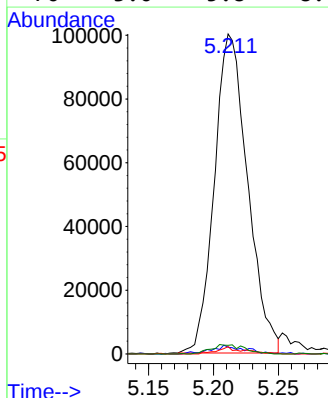
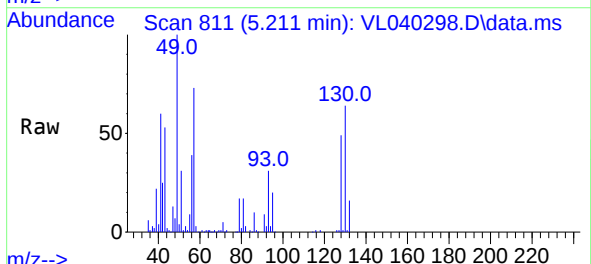
Ion	Ratio	Lower	Upper
43	100		
86	8.2	5.0	7.4#
42	0.0	9.1	13.7#
44	0.0	4.5	6.7#

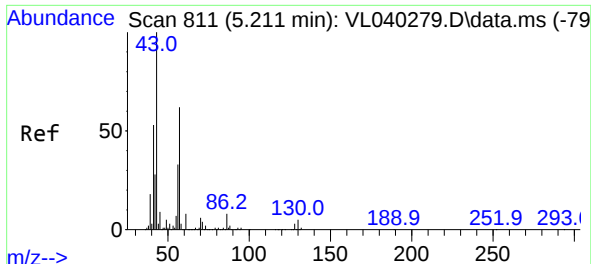


#25
 Ethyl Acetate
 Concen: 0.710 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.010 min
 Lab File: VL040298.D
 Acq: 16 Mar 2023 16:36

Tgt Ion: 43 Resp: 177894

Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.6	12.8#
61	1.8	8.4	12.6#
70	3.0	5.8	8.6#



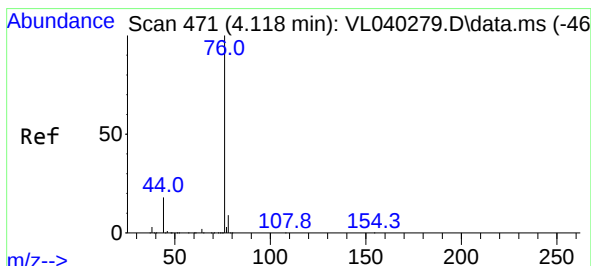
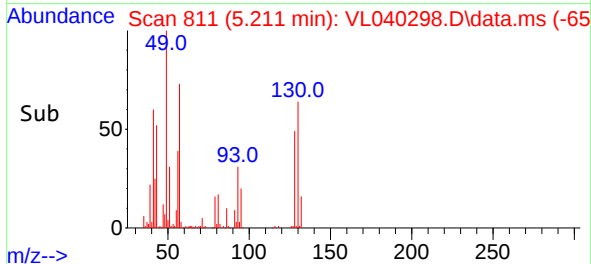
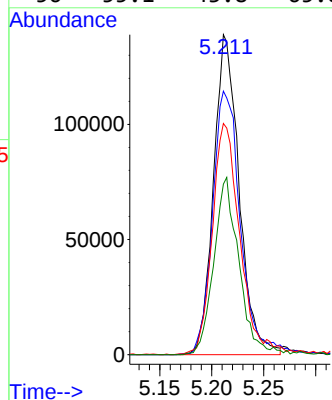
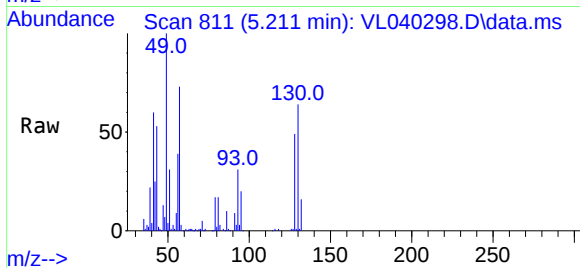


#26
Hexane
Concen: 2.309 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Instrument :
MSVOA_L
ClientSampleId :
SSSG-3DL

Tgt Ion: 57 Resp: 237650

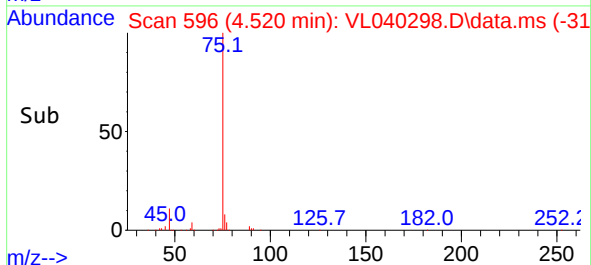
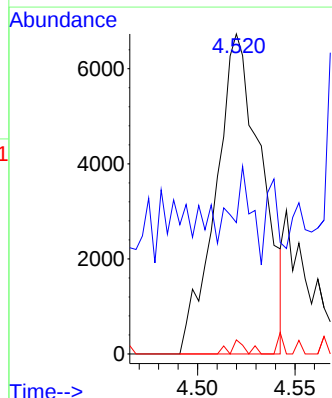
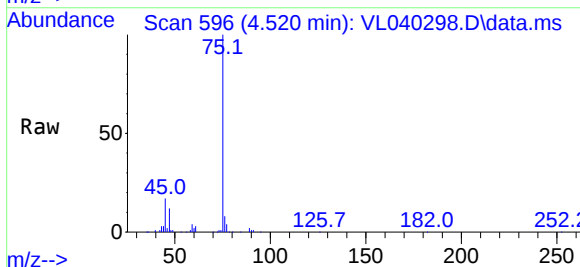
Ion	Ratio	Lower	Upper
57	100		
41	91.0	73.5	110.3
43	79.3	196.3	294.5#
56	55.1	43.8	65.8

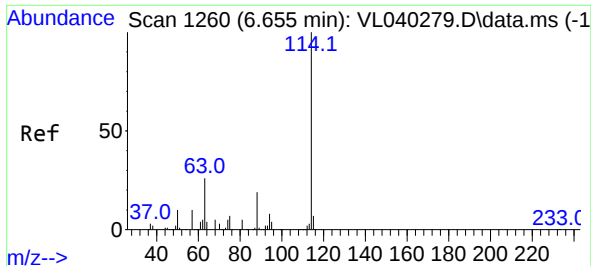


#27
Carbon Disulfide
Concen: 0.076 ppbv
RT: 4.520 min Scan# 596
Delta R.T. 0.402 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 76 Resp: 10948

Ion	Ratio	Lower	Upper
76	100		
44	36.4	15.2	22.8#
78	0.0	7.6	11.4#

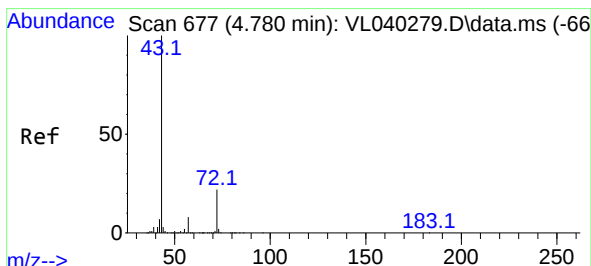
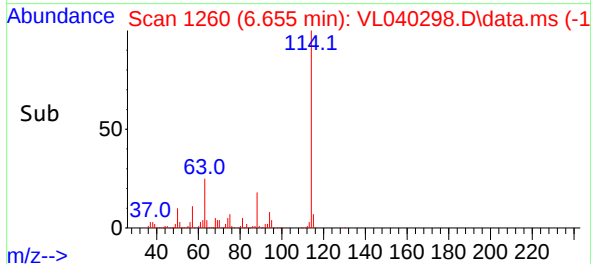
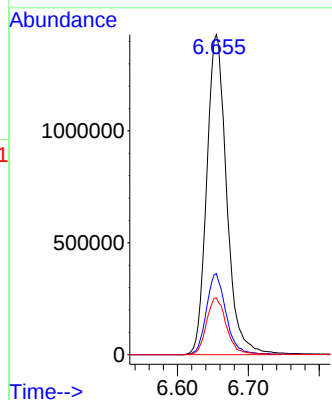
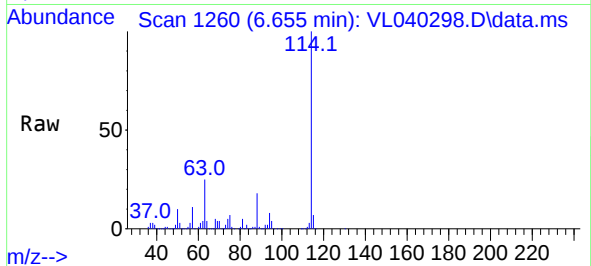




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 114
Delta R.T. -0.000 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

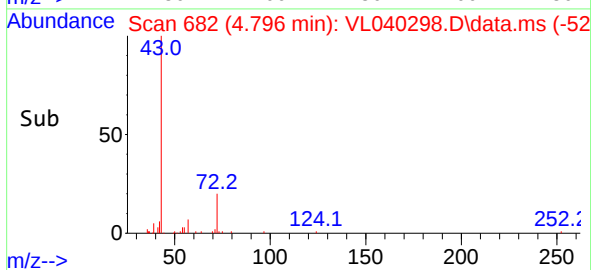
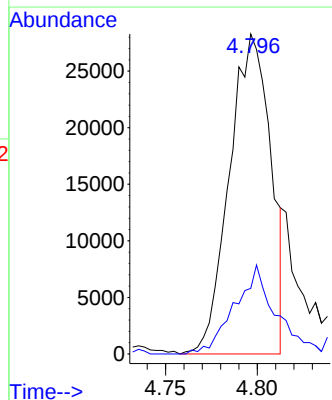
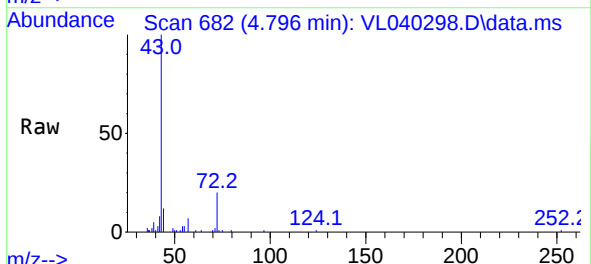
Instrument :
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ClientSampleId :
SSSG-3DL

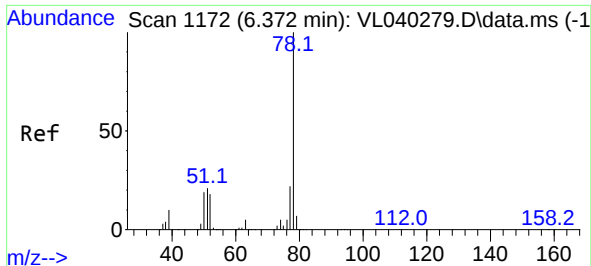
Tgt Ion:114 Resp: 2790686
Ion Ratio Lower Upper
114 100
63 25.3 21.2 31.8
88 17.9 14.5 21.7



#34
2-Butanone
Concen: 0.322 ppbv
RT: 4.796 min Scan# 682
Delta R.T. 0.016 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 43 Resp: 44375
Ion Ratio Lower Upper
43 100
72 31.7 18.3 27.5#

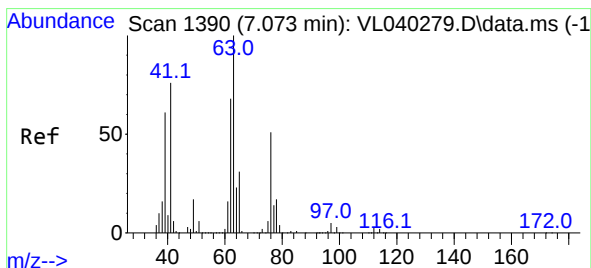
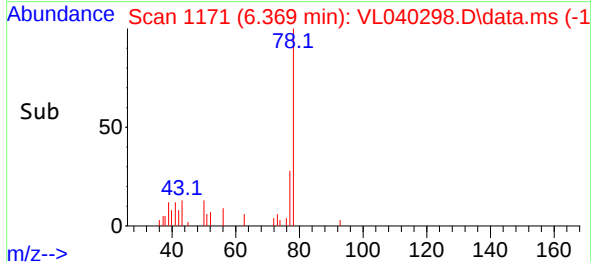
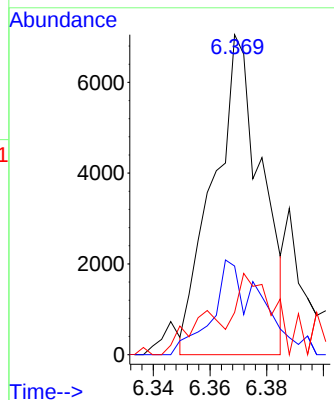
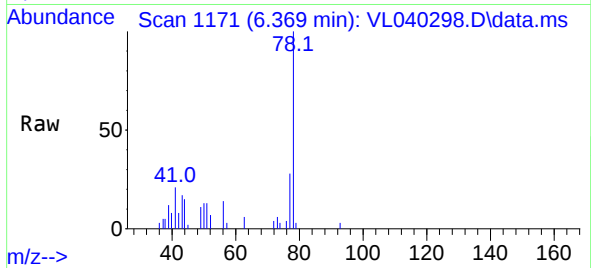




#36
Benzene
Concen: 0.039 ppbv
RT: 6.369 min Scan# 1172
Delta R.T. -0.003 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

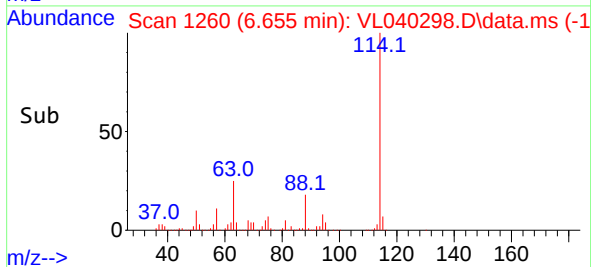
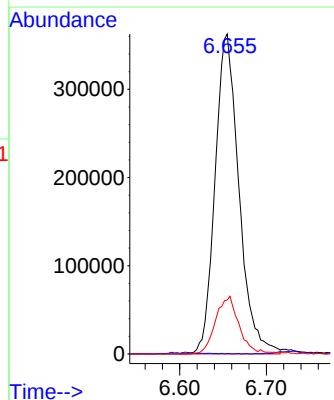
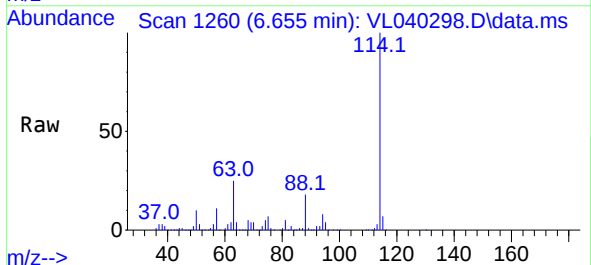
Instrument :
MSVOA_L
ClientSampleId :
SSSG-3DL

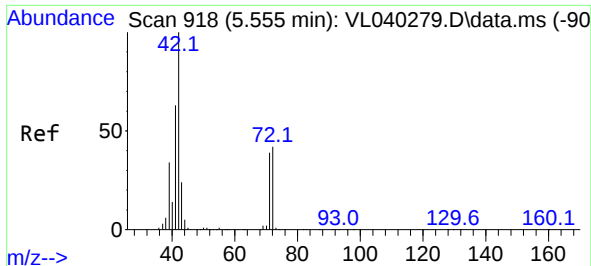
Tgt Ion: 78 Resp: 8294
Ion Ratio Lower Upper
78 100
77 24.7 17.8 26.8
50 1.0 15.4 23.2#



#39
1,2-Dichloropropane
Concen: 8.331 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.418 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 63 Resp: 695141
Ion Ratio Lower Upper
63 100
41 0.0 60.8 91.2#
62 16.8 54.1 81.1#





#41

Tetrahydrofuran

Concen: 0.097 ppbv

RT: 5.578 min Scan# 91

Delta R.T. 0.023 min

Lab File: VL040298.D

Acq: 16 Mar 2023 16:36

Instrument :

MSVOA_L

ClientSampleId :

SSSG-3DL

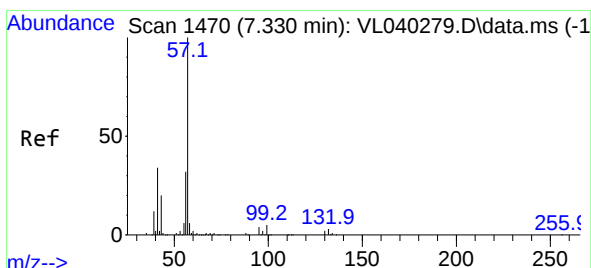
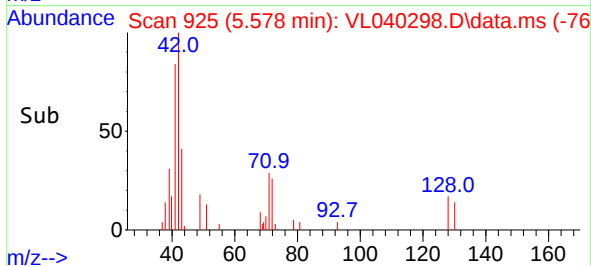
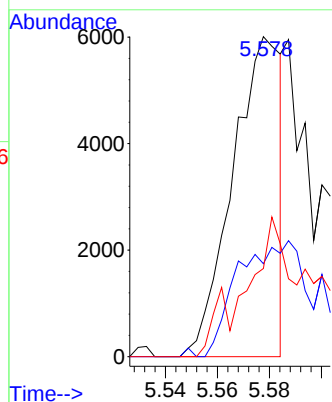
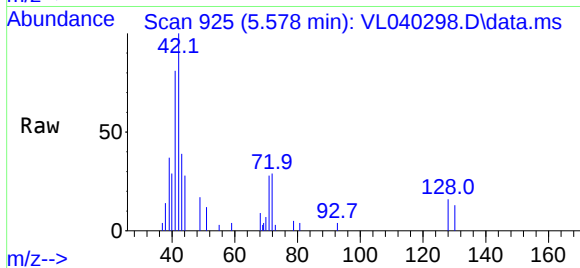
Tgt Ion: 42 Resp: 7722

Ion Ratio Lower Upper

42 100

72 0.0 32.6 49.0#

71 64.1 31.0 46.4#



#44

2,2,4-Trimethylpentane

Concen: 0.223 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. -0.003 min

Lab File: VL040298.D

Acq: 16 Mar 2023 16:36

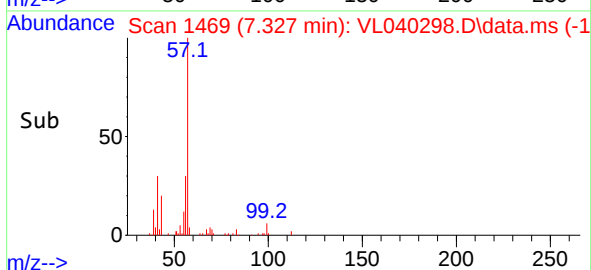
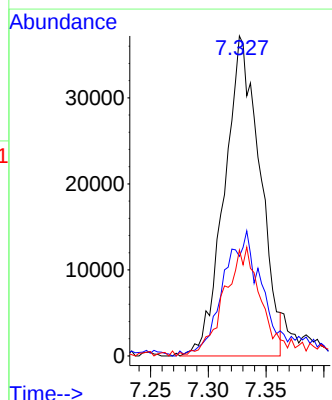
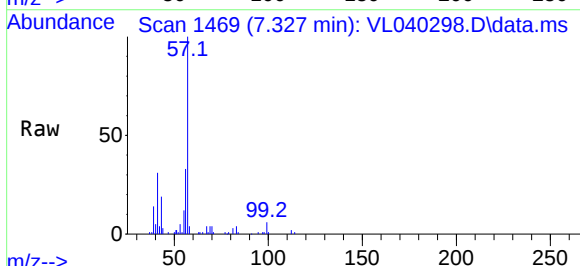
Tgt Ion: 57 Resp: 79218

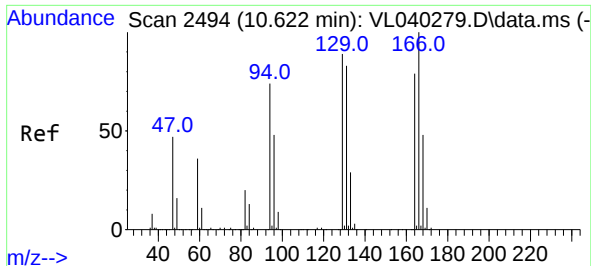
Ion Ratio Lower Upper

57 100

41 48.0 26.8 40.2#

56 36.5 25.0 37.6

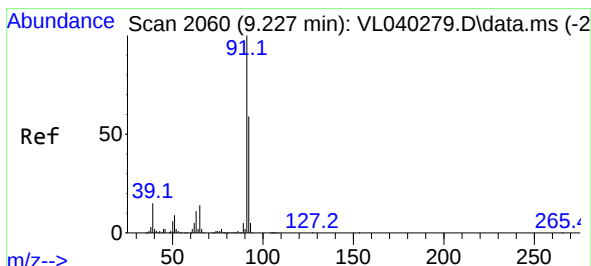
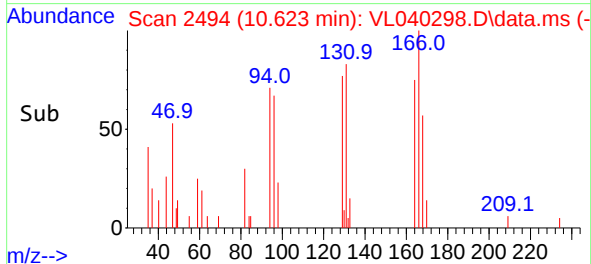
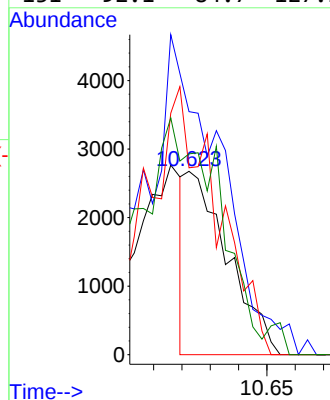
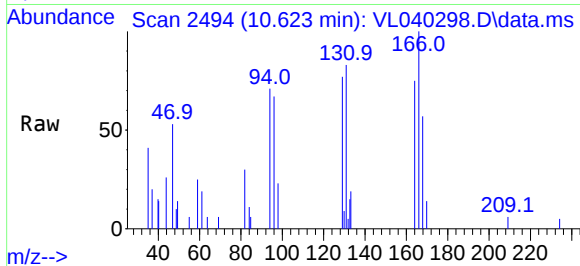




#52
Tetrachloroethene
Concen: 0.043 ppbv
RT: 10.623 min Scan# 2494
Delta R.T. 0.001 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

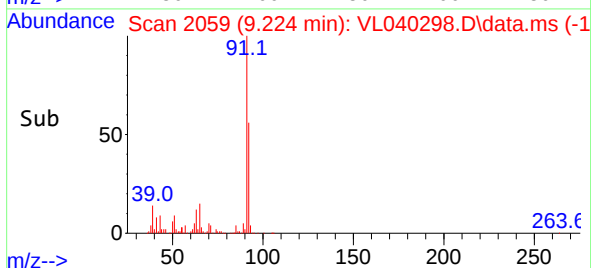
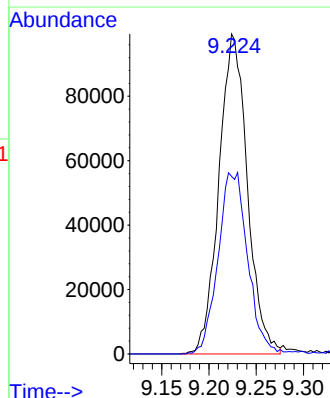
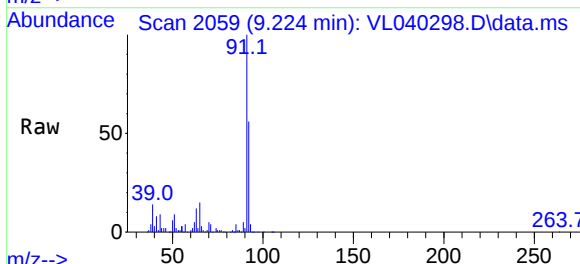
Instrument :
MSVOA_L
ClientSampleId :
SSSG-3DL

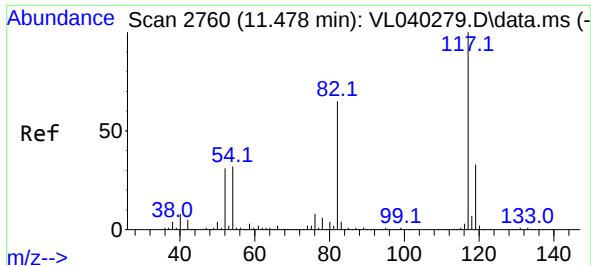
Tgt Ion:164 Resp: 2767
Ion Ratio Lower Upper
164 100
166 118.7 101.8 152.6
129 101.9 90.2 135.2
131 92.1 84.7 127.1



#53
Toluene
Concen: 0.931 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. -0.003 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 91 Resp: 207501
Ion Ratio Lower Upper
91 100
92 59.7 48.0 72.0

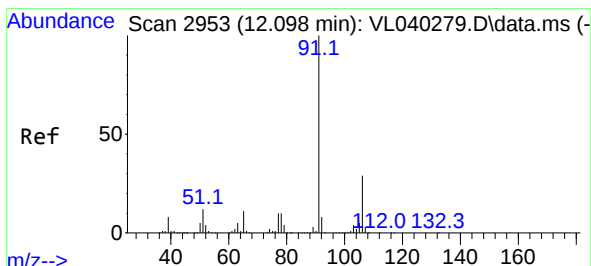
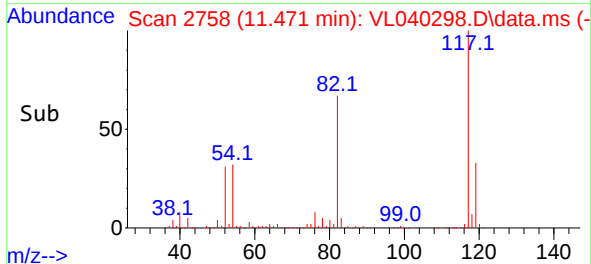
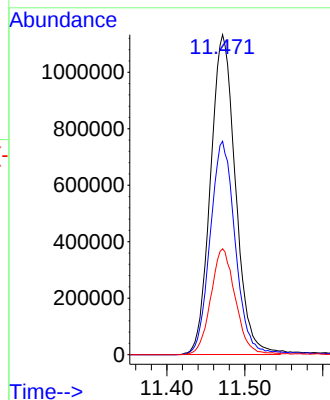
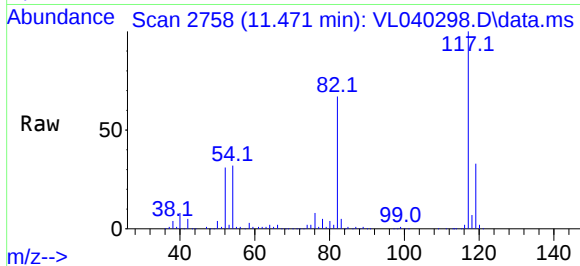




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

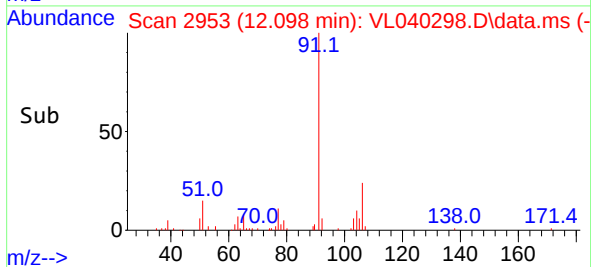
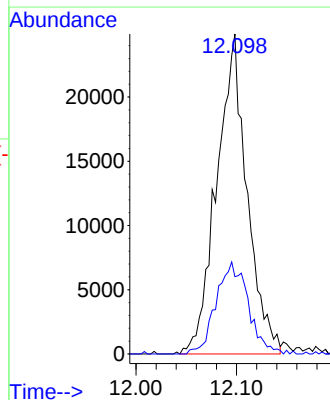
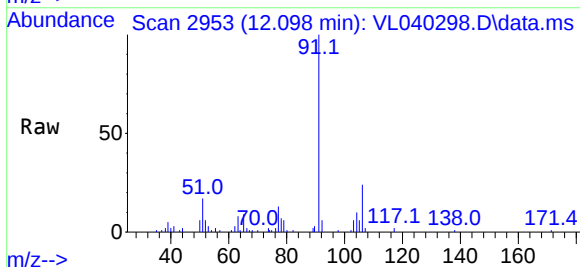
Instrument :
MSVOA_L
ClientSampleId :
SSSG-3DL

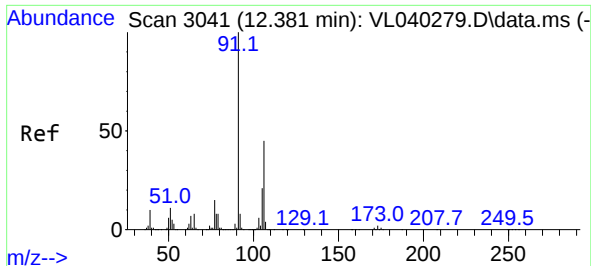
Tgt Ion:117 Resp: 2524618
Ion Ratio Lower Upper
117 100
82 68.0 51.4 77.2
119 32.8 24.0 36.0



#58
Ethyl Benzene
Concen: 0.181 ppbv
RT: 12.098 min Scan# 2953
Delta R.T. 0.000 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 91 Resp: 52107
Ion Ratio Lower Upper
91 100
106 24.2 23.4 35.2





#59

m/p-Xylene

Concen: 0.425 ppbv

RT: 12.359 min Scan# 3041

Delta R.T. -0.022 min

Lab File: VL040298.D

Acq: 16 Mar 2023 16:36

Instrument :

MSVOA_L

ClientSampleId :

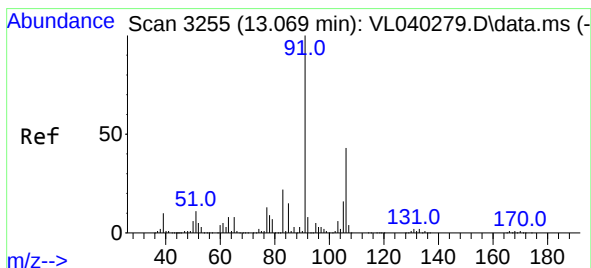
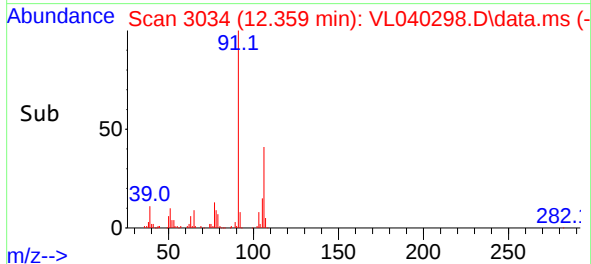
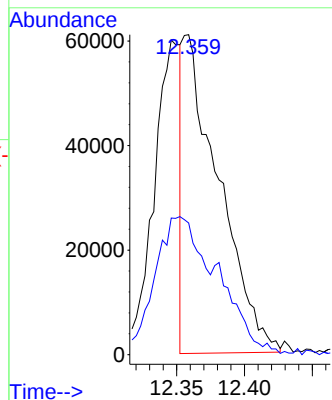
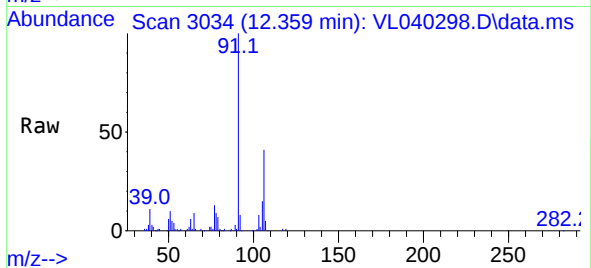
SSSG-3DL

Tgt Ion: 91 Resp: 111816

Ion Ratio Lower Upper

91 100

106 76.4 34.0 51.0#



#60

o-Xylene

Concen: 0.211 ppbv

RT: 13.066 min Scan# 3254

Delta R.T. -0.003 min

Lab File: VL040298.D

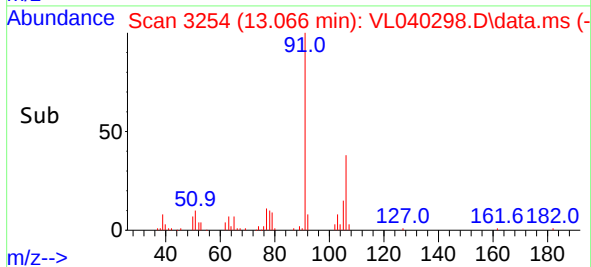
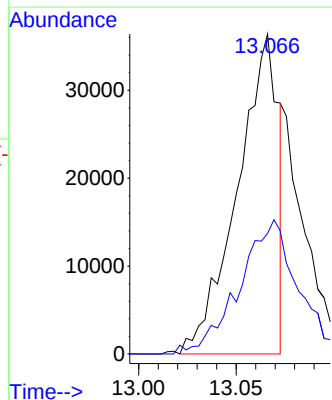
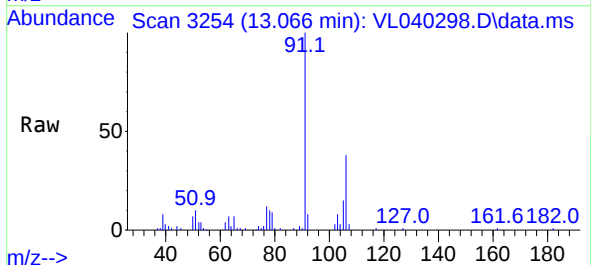
Acq: 16 Mar 2023 16:36

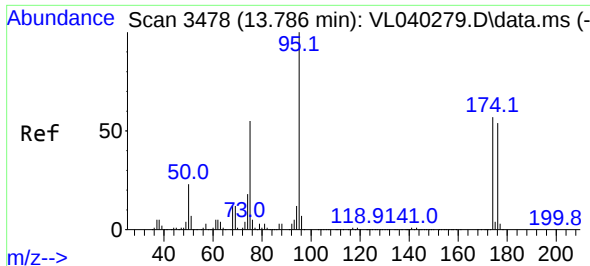
Tgt Ion: 91 Resp: 53120

Ion Ratio Lower Upper

91 100

106 61.1 21.7 65.1

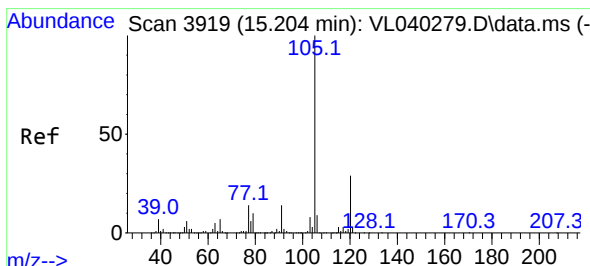
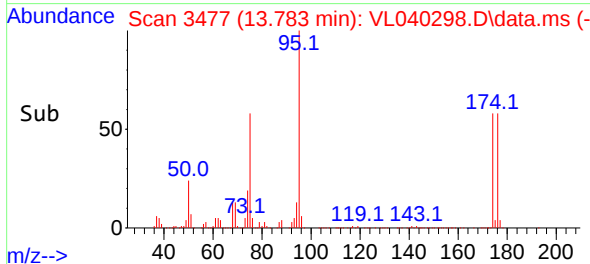
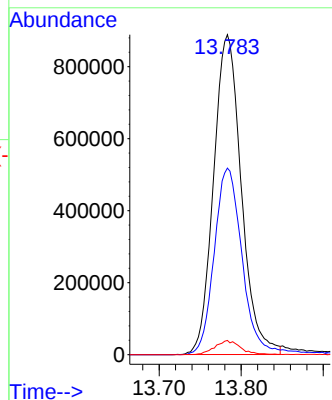
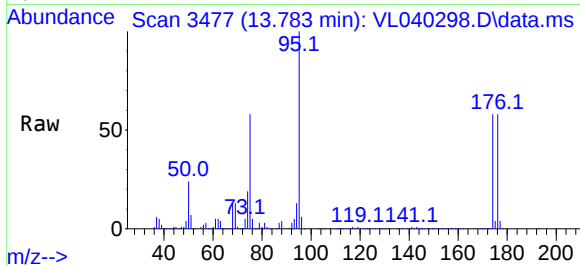




#68
1-Bromo-4-Fluorobenzene
Concen: 9.901 ppbv
RT: 13.783 min Scan# 3478
Delta R.T. -0.003 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

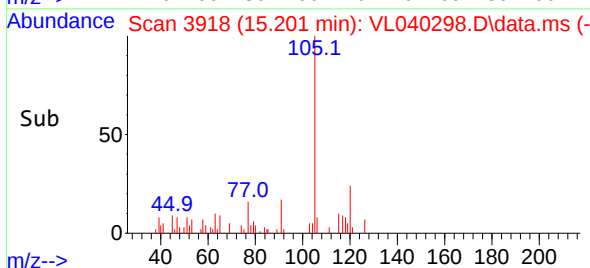
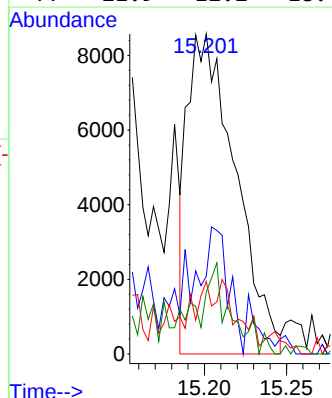
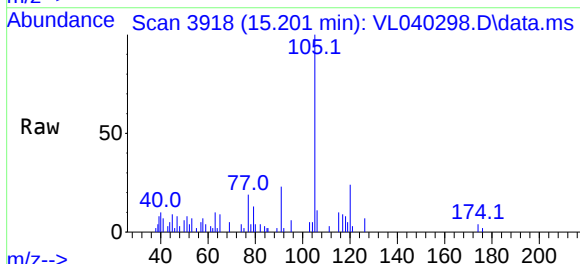
Instrument :
MSVOA_1
ClientSampleId :
SSSG-3DL

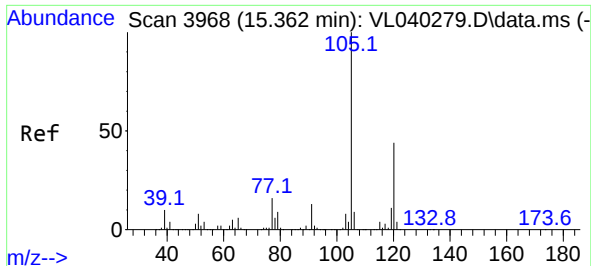
Tgt Ion: 95 Resp: 2093284
Ion Ratio Lower Upper
95 100
174 60.2 47.0 70.6
175 4.1 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.063 ppbv
RT: 15.201 min Scan# 3918
Delta R.T. -0.003 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion: 105 Resp: 17412
Ion Ratio Lower Upper
105 100
120 36.0 23.7 35.5#
91 21.4 11.6 17.4#
77 21.9 12.2 18.4#

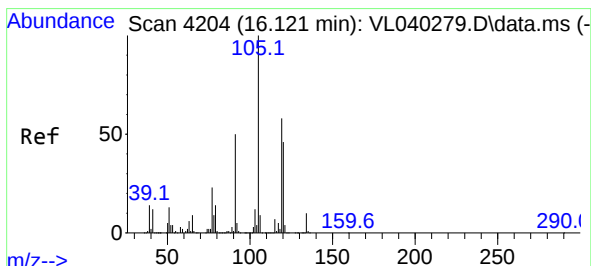
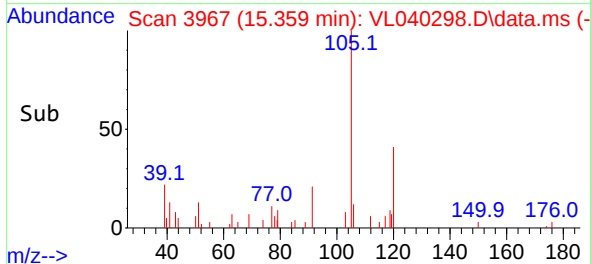
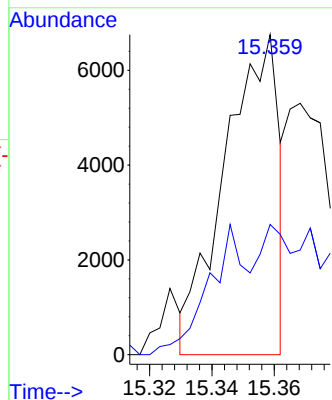
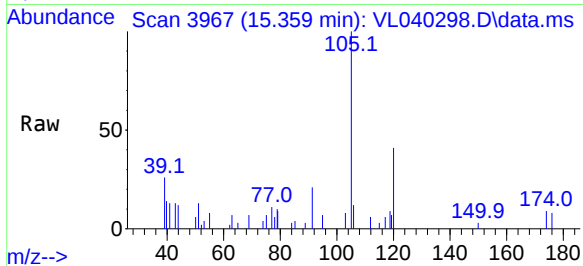




#73
1,3,5-Trimethylbenzene
Concen: 0.032 ppbv
RT: 15.359 min Scan# 3967
Delta R.T. -0.003 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Instrument :
MSVOA_1
ClientSampleId :
SSSG-3DL

Tgt Ion:105 Resp: 8096
Ion Ratio Lower Upper
105 100
120 41.1 34.9 52.3



#74
1,2,4-Trimethylbenzene
Concen: 0.176 ppbv
RT: 16.117 min Scan# 4203
Delta R.T. -0.004 min
Lab File: VL040298.D
Acq: 16 Mar 2023 16:36

Tgt Ion:105 Resp: 50118
Ion Ratio Lower Upper
105 100
120 38.2 36.6 54.8
91 13.9 39.9 59.9#
77 21.9 18.6 27.8

