

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021623\
 Data File : VL040185.D
 Acq On : 16 Feb 2023 19:42
 Operator : SY/MD
 Sample : 01550-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03

Quant Time: Feb 17 03:32:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 15 17:01:01 2023
 Response via : Initial Calibration

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

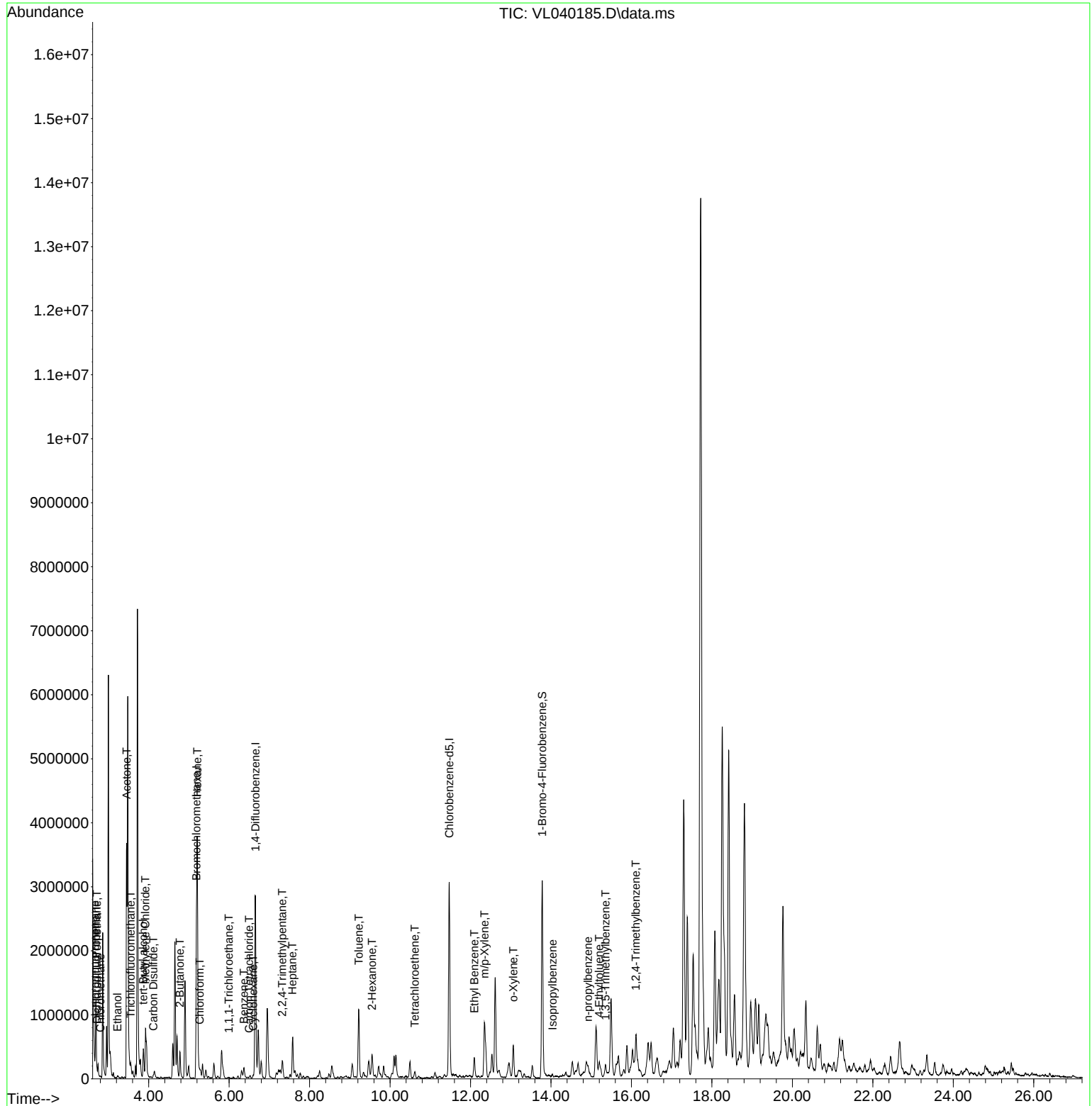
Internal Standards						
1) Bromochloromethane	5.185	49	868137	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2246215	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2064902	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1578719	9.298	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.716	85	20723	0.128	ppbv	95
3) Chlorodifluoromethane	2.665	51	20824m	0.201	ppbv	
4) Chloromethane	2.800	50	7993	0.123	ppbv	91
9) Propene	2.687	41	335376m	7.934	ppbv	
10) Heptane	7.574	43	293684	2.919	ppbv	98
11) Trichlorofluoromethane	3.552	101	71530	0.493	ppbv	99
13) Ethanol	3.227	45	43685m	11.225	ppbv	
15) Acetone	3.452	43	3179695	30.422	ppbv #	78
17) tert-Butyl alcohol	3.867	59	396243	4.157	ppbv	99
20) Methylene Chloride	3.922	84	236624	4.349	ppbv	93
26) Hexane	5.208	57	1465444	17.569	ppbv #	35
27) Carbon Disulfide	4.118	76	45308	0.428	ppbv #	95
29) Chloroform	5.269	83	35662	0.249	ppbv	97
30) Cyclohexane	6.600	84	19192m	0.293	ppbv	
32) 1,1,1-Trichloroethane	5.992	97	4536m	0.034	ppbv	
34) 2-Butanone	4.777	43	449910	4.060	ppbv	94
35) Carbon Tetrachloride	6.497	117	3734m	0.028	ppbv	
36) Benzene	6.365	78	128005	0.732	ppbv	97
44) 2,2,4-Trimethylpentane	7.320	57	236532	0.811	ppbv #	85
51) 2-Hexanone	9.552	43	335770	2.538	ppbv #	96
52) Tetrachloroethene	10.616	164	23126m	0.424	ppbv	
53) Toluene	9.221	91	770635	4.116	ppbv	100
58) Ethyl Benzene	12.095	91	283671	1.131	ppbv	95
59) m/p-Xylene	12.346	91	940043	4.230	ppbv	95
60) o-Xylene	13.066	91	397444	1.859	ppbv	98
62) Isopropylbenzene	14.037	105	38364	0.125	ppbv	98
64) n-propylbenzene	14.921	120	31393	0.413	ppbv	94
72) 4-Ethyltoluene	15.201	105	165925	0.702	ppbv	98
73) 1,3,5-Trimethylbenzene	15.355	105	130931	0.595	ppbv	92
74) 1,2,4-Trimethylbenzene	16.111	105	498639	2.064	ppbv #	67

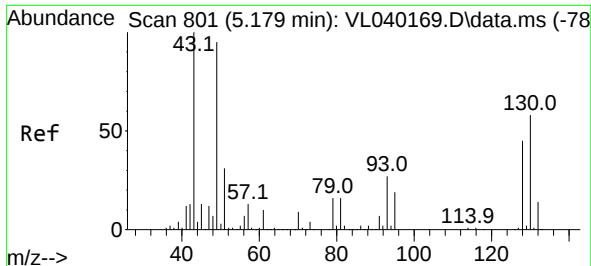
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 15 17:01:01 2023
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.185 min Scan# 80

Delta R.T. 0.006 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

SVP-03

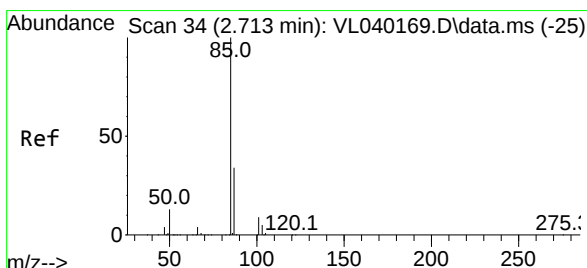
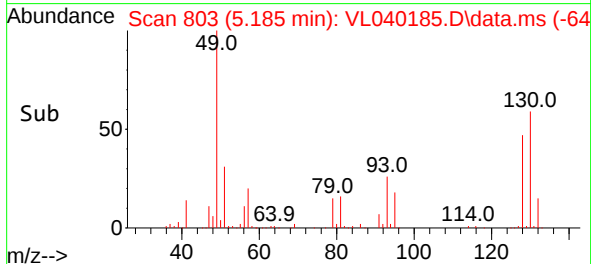
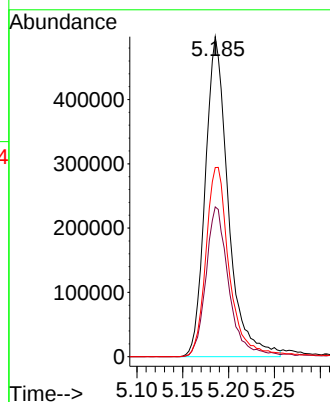
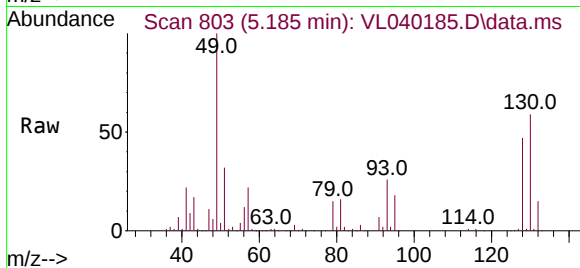
Tgt Ion: 49 Resp: 868137

Ion Ratio Lower Upper

49 100

128 47.6 24.1 72.3

130 62.1 30.9 92.8



#2

Dichlorodifluoromethane

Concen: 0.128 ppbv

RT: 2.716 min Scan# 35

Delta R.T. 0.003 min

Lab File: VL040185.D

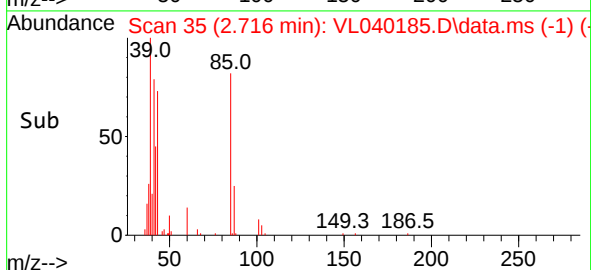
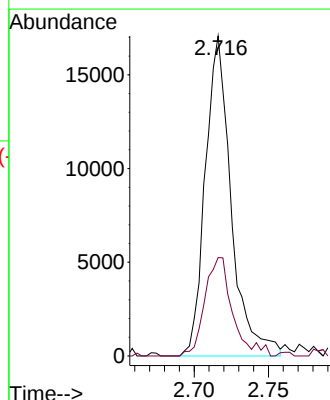
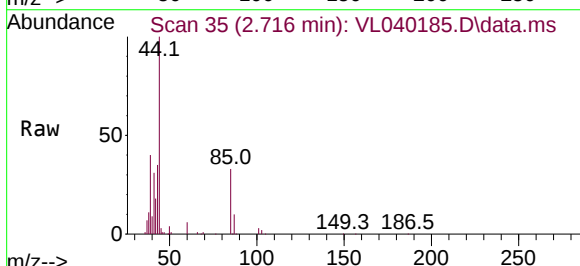
Acq: 16 Feb 2023 19:42

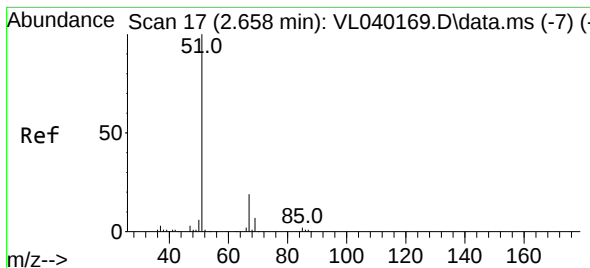
Tgt Ion: 85 Resp: 20723

Ion Ratio Lower Upper

85 100

87 30.8 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.201 ppbv

RT: 2.665 min Scan# 19

Delta R.T. 0.007 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

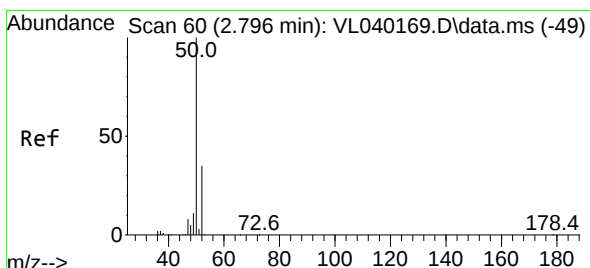
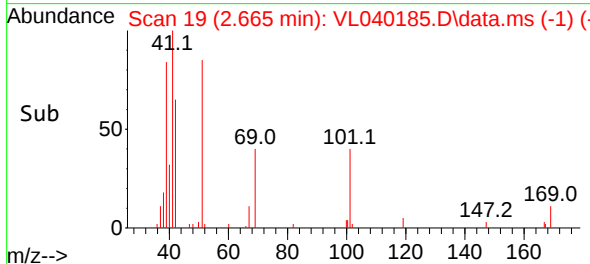
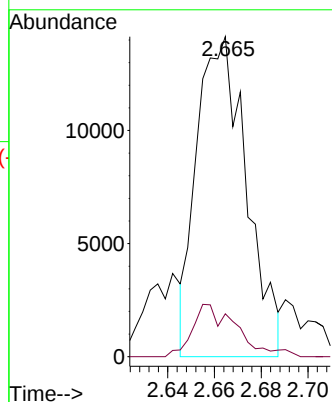
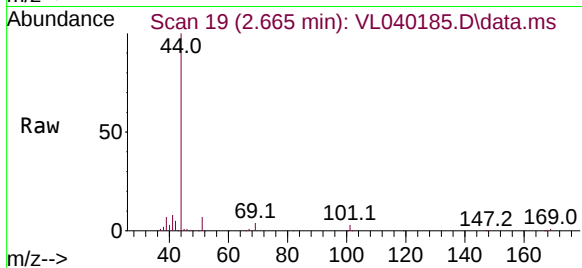
SVP-03

Tgt Ion: 51 Resp: 20824

Ion Ratio Lower Upper

51 100

67 14.7 15.4 23.2#



#4

Chloromethane

Concen: 0.123 ppbv

RT: 2.800 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL040185.D

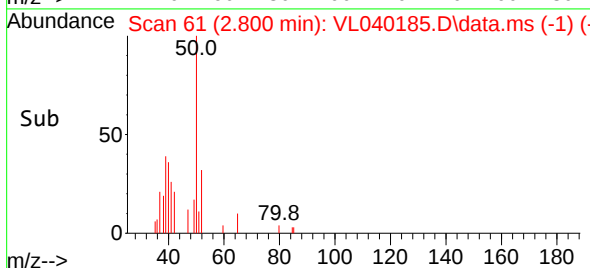
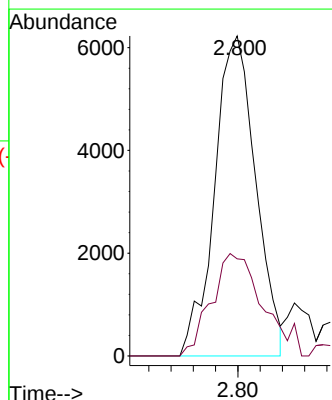
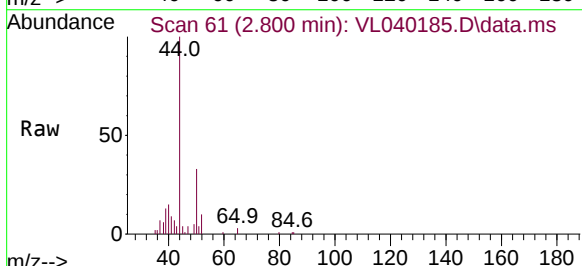
Acq: 16 Feb 2023 19:42

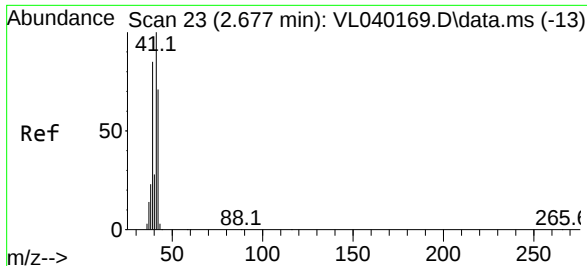
Tgt Ion: 50 Resp: 7993

Ion Ratio Lower Upper

50 100

52 30.4 28.3 42.5

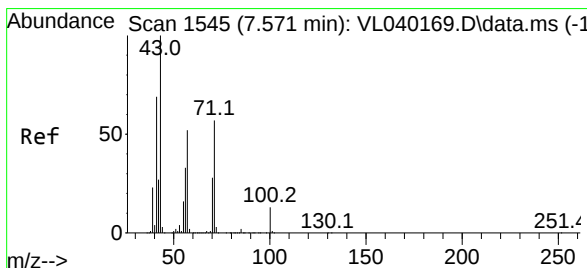
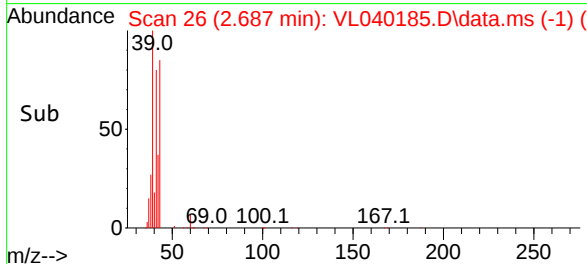
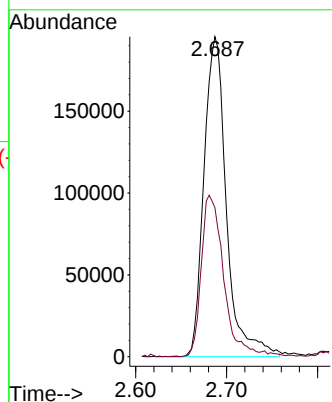
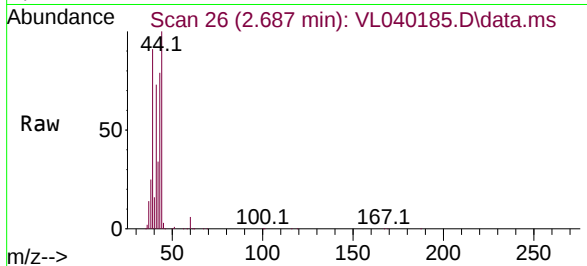




#9
Propene
Concen: 7.934 ppbv m
RT: 2.687 min Scan# 2
Delta R.T. 0.010 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

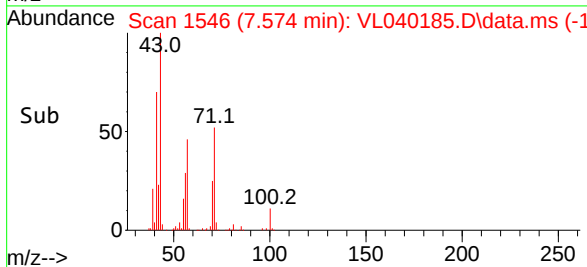
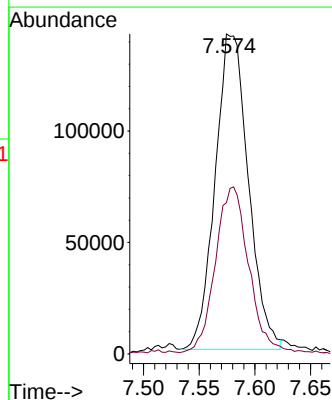
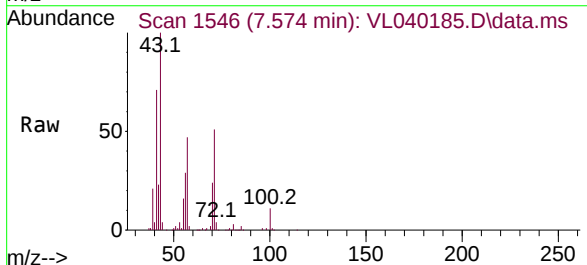
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

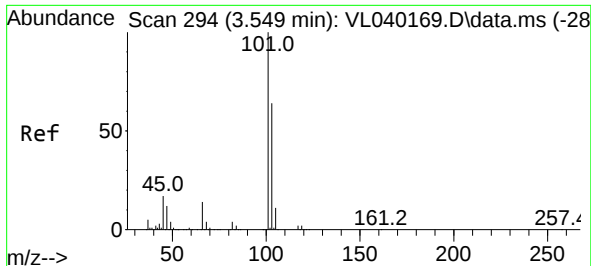
Tgt Ion: 41 Resp: 335376
Ion Ratio Lower Upper
41 100
42 117.9 56.9 85.3#



#10
Heptane
Concen: 2.919 ppbv
RT: 7.574 min Scan# 1546
Delta R.T. 0.003 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 43 Resp: 293684
Ion Ratio Lower Upper
43 100
57 53.5 41.4 62.2

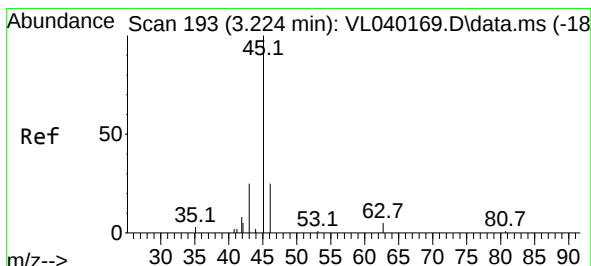
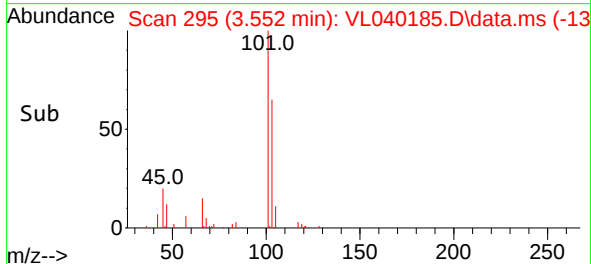
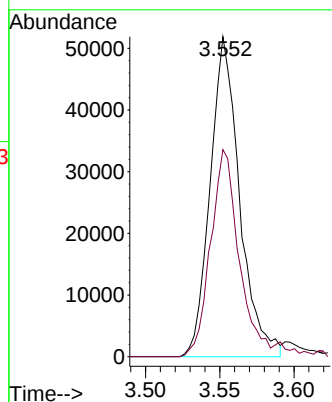
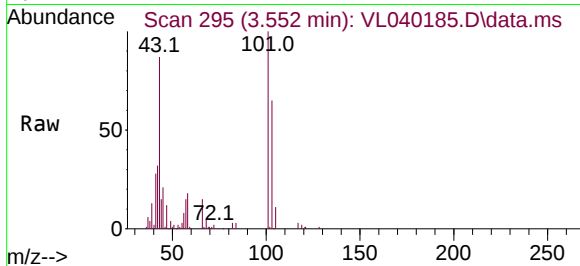




#11
Trichlorofluoromethane
Concen: 0.493 ppbv
RT: 3.552 min Scan# 294
Delta R.T. 0.003 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

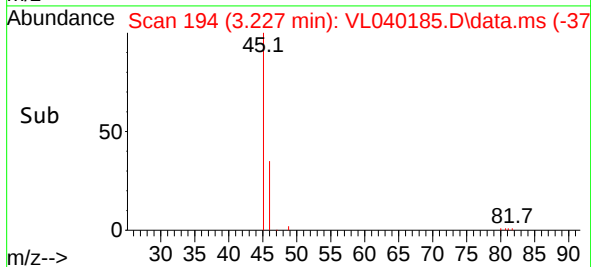
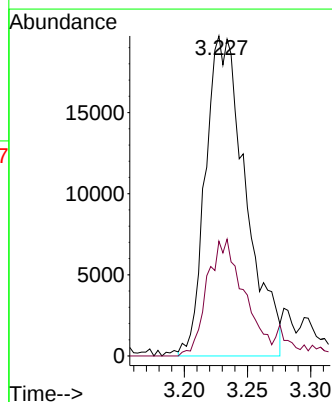
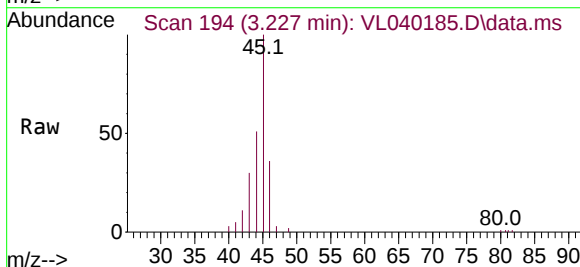
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

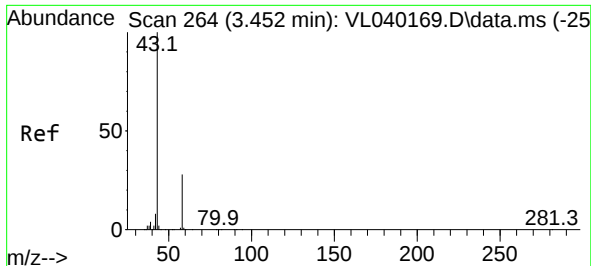
Tgt Ion:101 Resp: 71530
Ion Ratio Lower Upper
101 100
103 64.7 51.0 76.6



#13
Ethanol
Concen: 11.225 ppbv m
RT: 3.227 min Scan# 194
Delta R.T. 0.003 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 45 Resp: 43685
Ion Ratio Lower Upper
45 100
46 0.0 13.3 53.1#

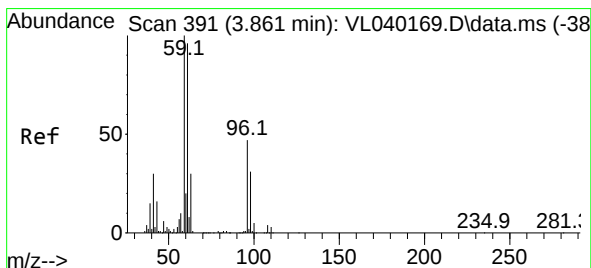
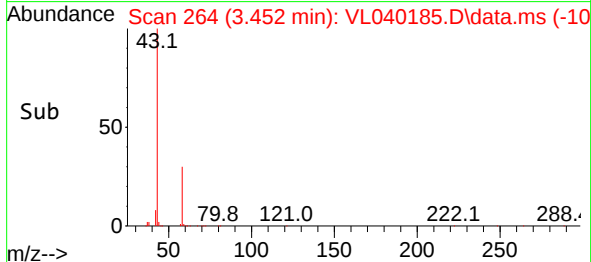
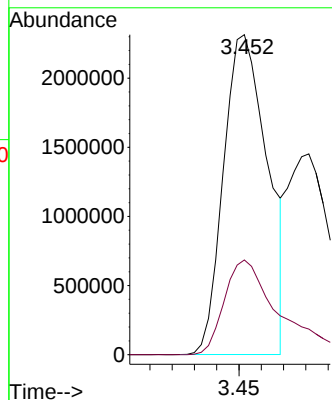
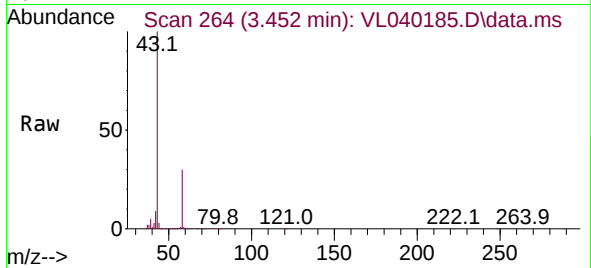




#15
Acetone
Concen: 30.422 ppbv
RT: 3.452 min Scan# 20
Delta R.T. 0.000 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

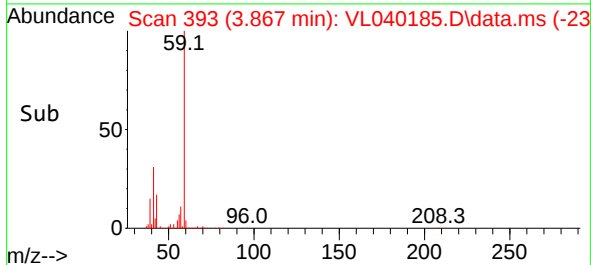
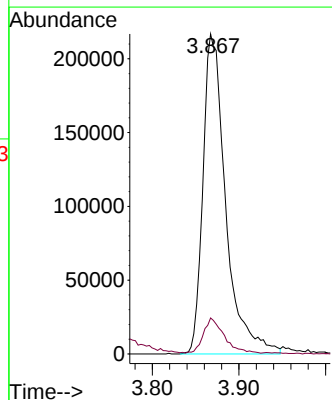
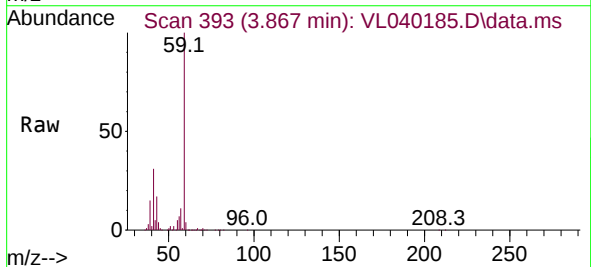
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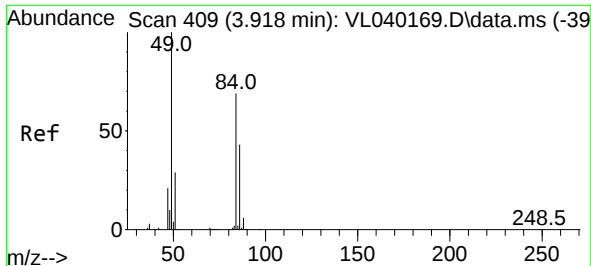
Tgt Ion: 43 Resp: 3179695
Ion Ratio Lower Upper
43 100
58 39.4 22.4 33.6#



#17
tert-Butyl alcohol
Concen: 4.157 ppbv
RT: 3.867 min Scan# 393
Delta R.T. 0.007 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 59 Resp: 396243
Ion Ratio Lower Upper
59 100
57 11.0 8.5 12.7



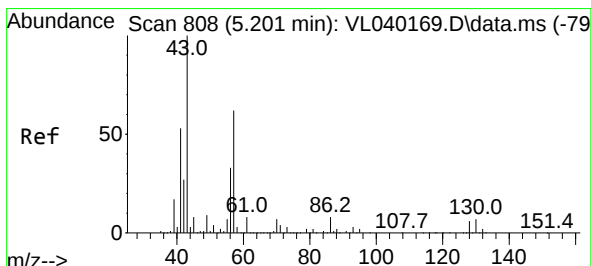
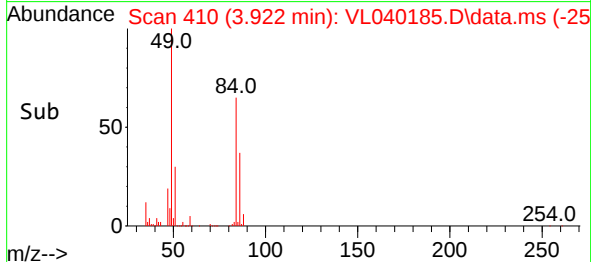
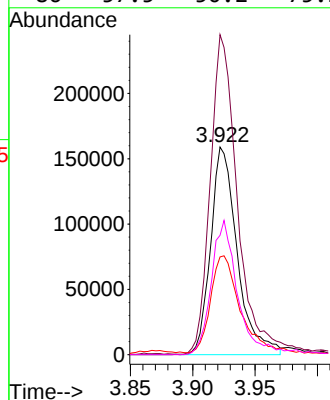
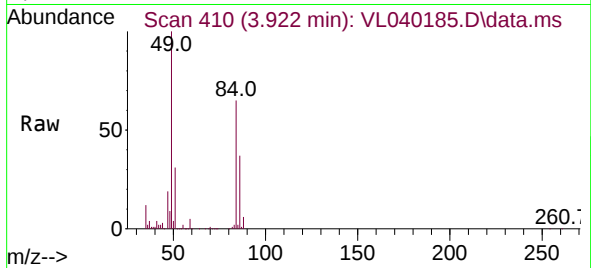


#20
Methylene Chloride
Concen: 4.349 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.003 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Instrument :
MSVOA_L
ClientSampleId :
SVP-03

Tgt Ion: 84 Resp: 236624

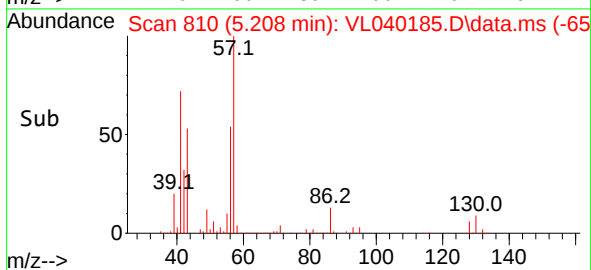
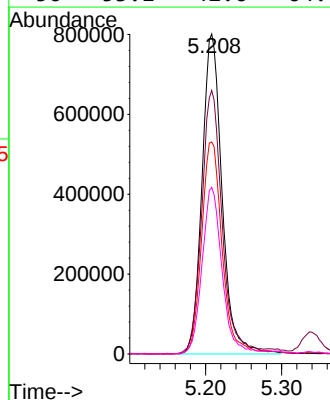
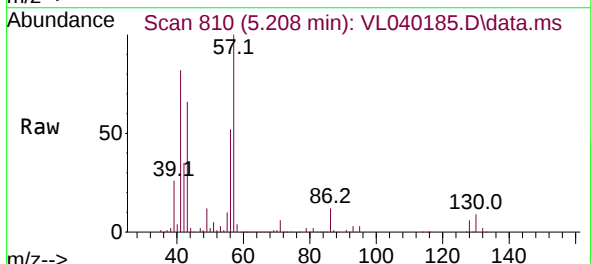
Ion	Ratio	Lower	Upper
84	100		
49	153.9	115.5	173.3
51	45.8	33.1	49.7
86	57.5	50.2	75.2

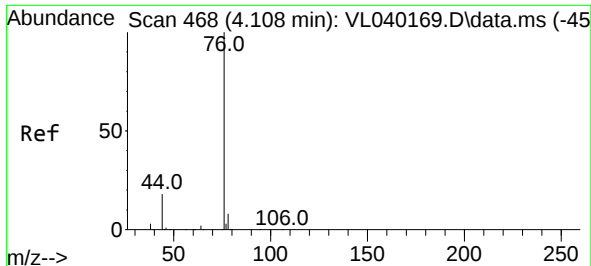


#26
Hexane
Concen: 17.569 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.007 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 57 Resp: 1465444

Ion	Ratio	Lower	Upper
57	100		
41	86.2	74.3	111.5
43	68.6	193.0	289.4#
56	53.1	42.6	64.0





#27

Carbon Disulfide

Concen: 0.428 ppbv

RT: 4.118 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

SVP-03

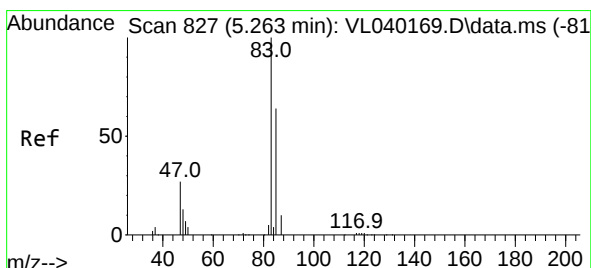
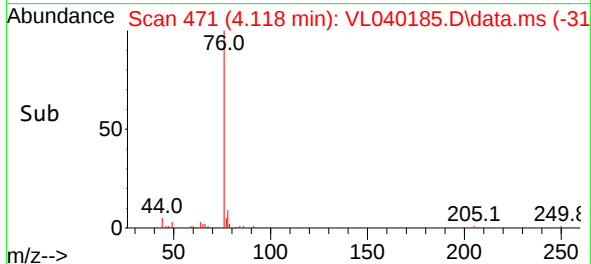
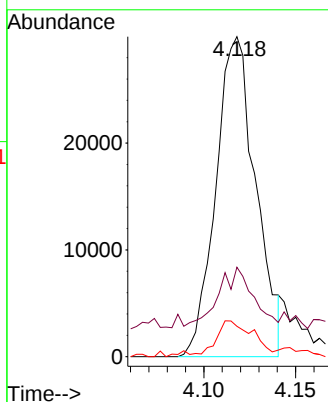
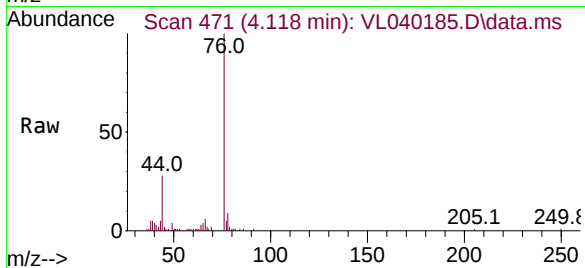
Tgt Ion: 76 Resp: 45308

Ion Ratio Lower Upper

76 100

44 20.1 15.3 22.9

78 13.4 7.7 11.5#



#29

Chloroform

Concen: 0.249 ppbv

RT: 5.269 min Scan# 829

Delta R.T. 0.007 min

Lab File: VL040185.D

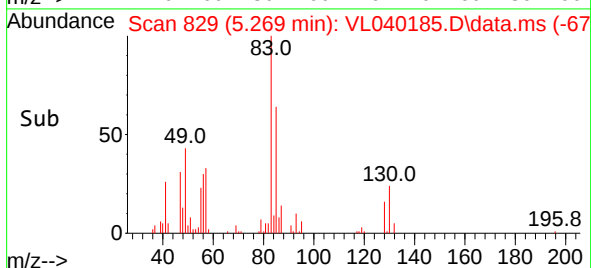
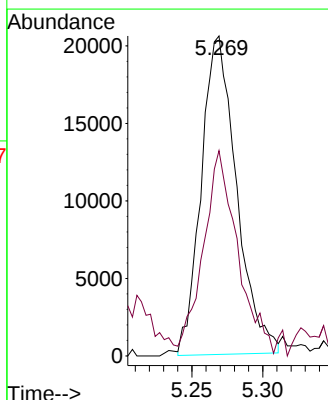
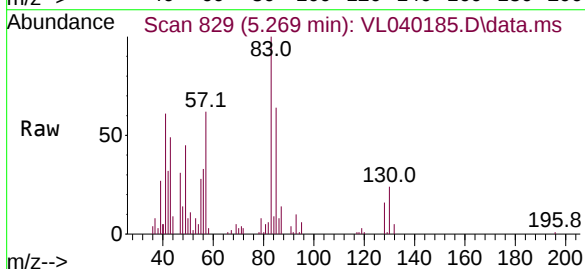
Acq: 16 Feb 2023 19:42

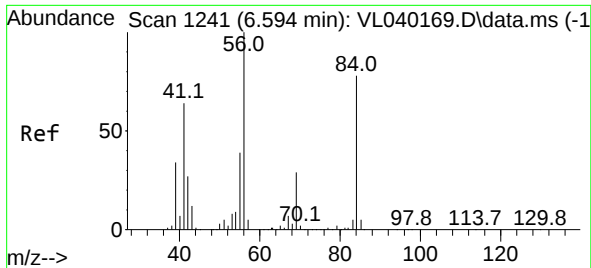
Tgt Ion: 83 Resp: 35662

Ion Ratio Lower Upper

83 100

85 61.9 51.5 77.3

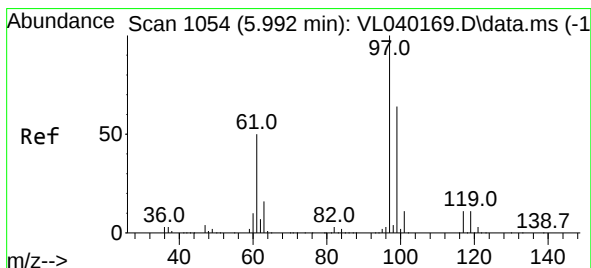
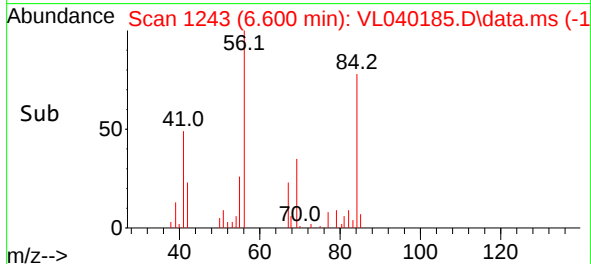
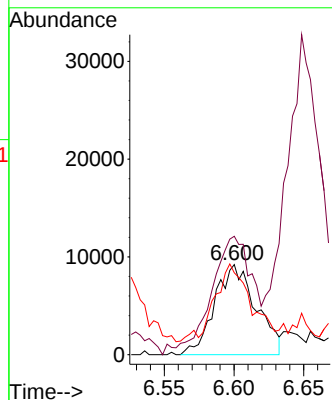
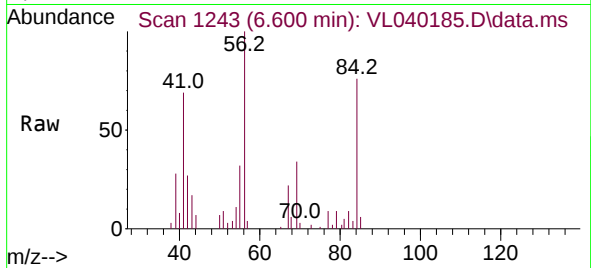




#30
Cyclohexane
Concen: 0.293 ppbv m
RT: 6.600 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

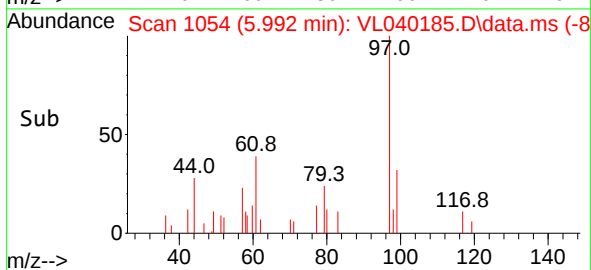
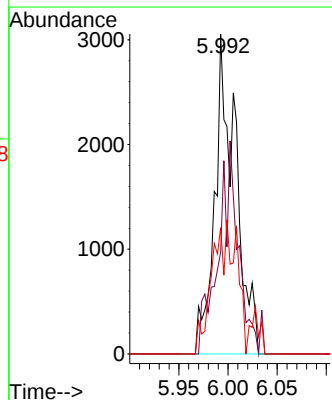
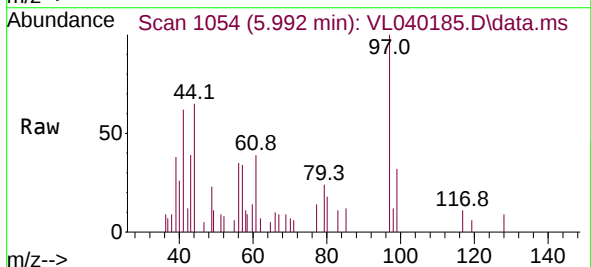
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

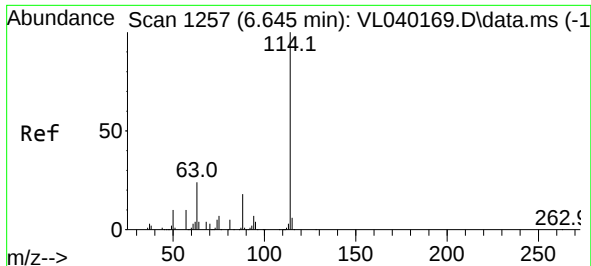
Tgt Ion: 84 Resp: 19192
Ion Ratio Lower Upper
84 100
56 123.8 109.9 164.9
41 79.4 67.8 101.6



#32
1,1,1-Trichloroethane
Concen: 0.034 ppbv m
RT: 5.992 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 97 Resp: 4536
Ion Ratio Lower Upper
97 100
99 64.7 51.5 77.3
61 55.0 40.6 60.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

SVP-03

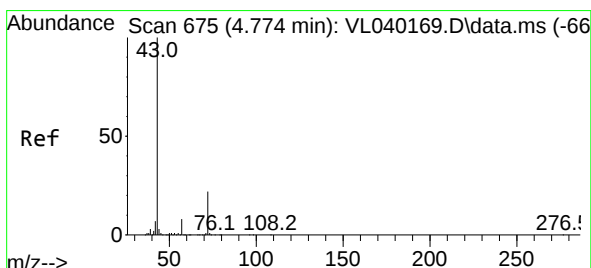
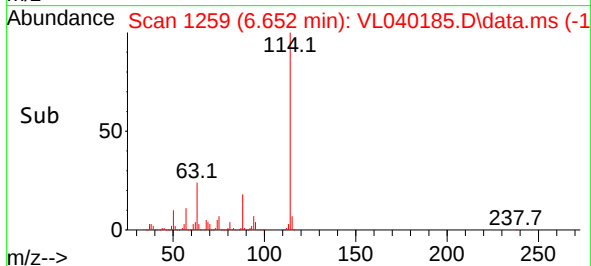
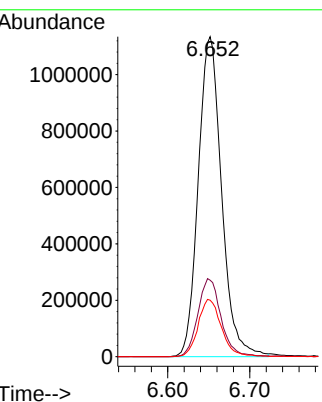
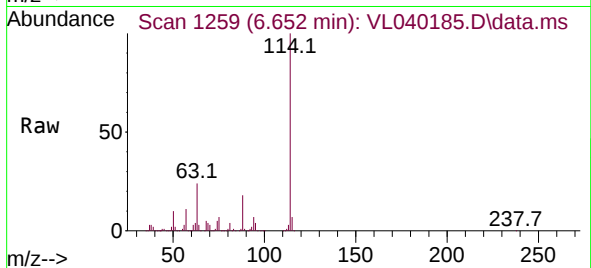
Tgt Ion:114 Resp: 2246215

Ion Ratio Lower Upper

114 100

63 24.4 20.4 30.6

88 17.9 14.3 21.5



#34

2-Butanone

Concen: 4.060 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.003 min

Lab File: VL040185.D

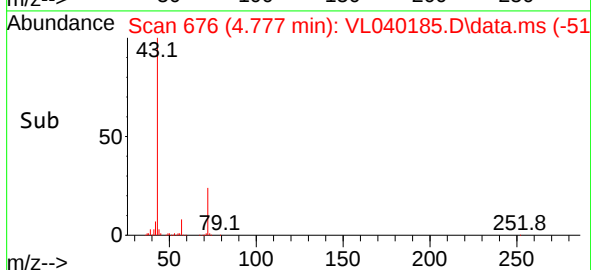
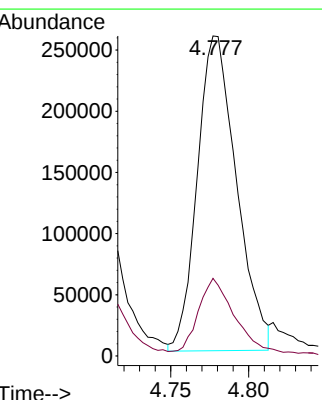
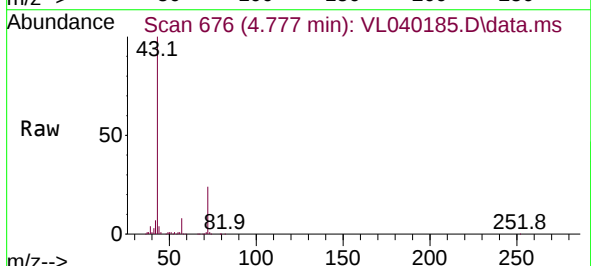
Acq: 16 Feb 2023 19:42

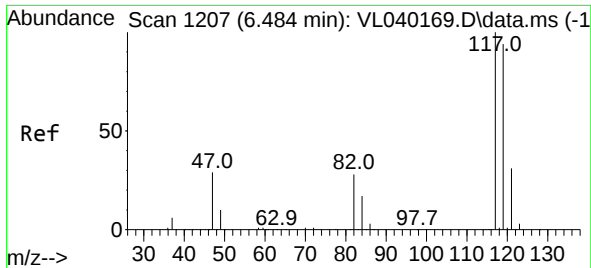
Tgt Ion: 43 Resp: 449910

Ion Ratio Lower Upper

43 100

72 25.0 17.8 26.8

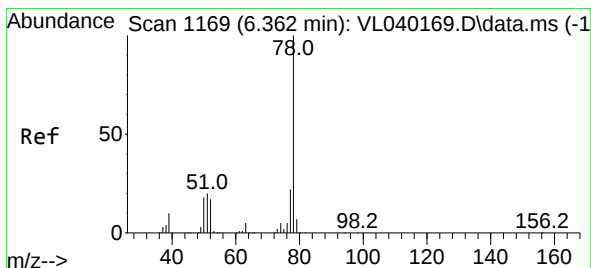
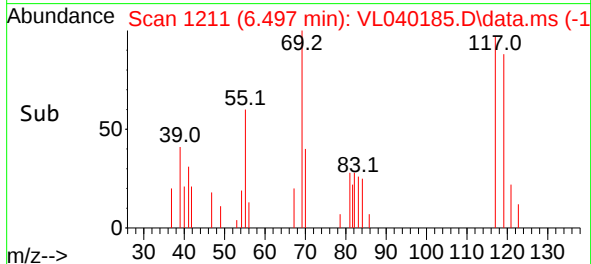
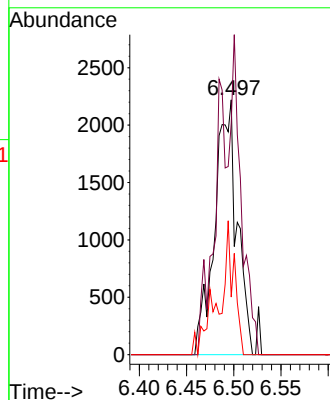
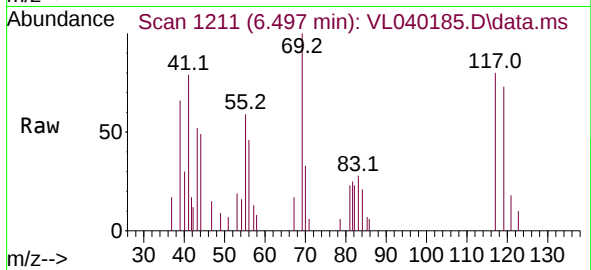




#35
Carbon Tetrachloride
Concen: 0.028 ppbv m
RT: 6.497 min Scan# 1170
Delta R.T. 0.013 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

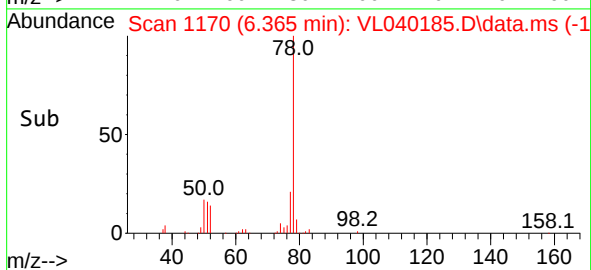
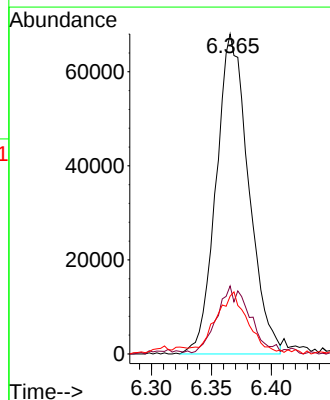
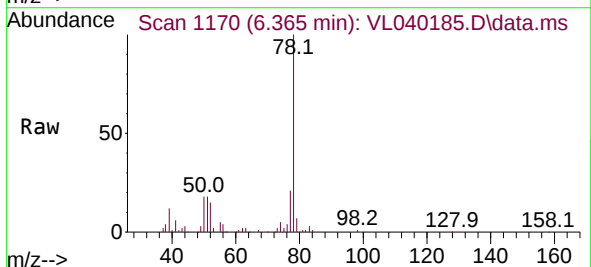
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

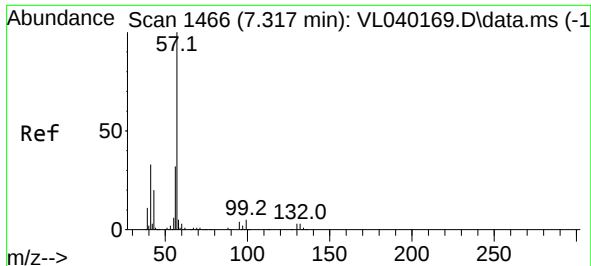
Tgt Ion:117 Resp: 3734
Ion Ratio Lower Upper
117 100
119 90.9 75.0 112.6
121 22.6 25.0 37.4#



#36
Benzene
Concen: 0.732 ppbv
RT: 6.365 min Scan# 1170
Delta R.T. 0.003 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 78 Resp: 128005
Ion Ratio Lower Upper
78 100
77 20.5 17.5 26.3
50 16.8 14.6 22.0

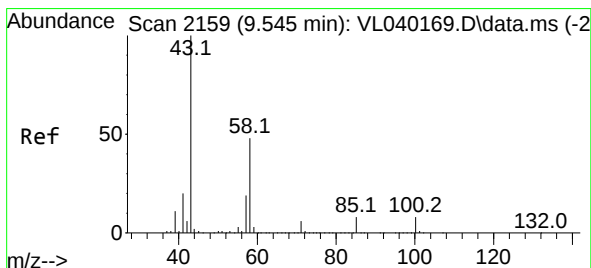
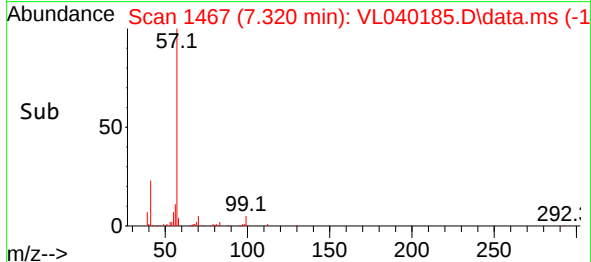
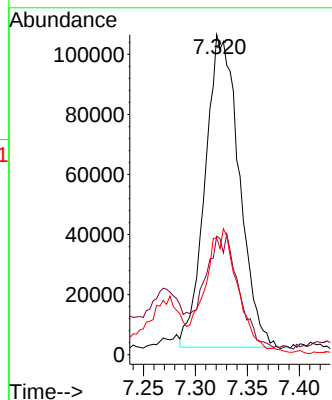
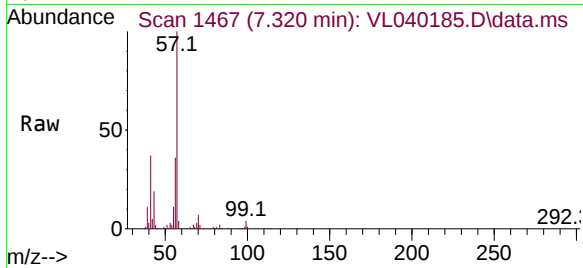




#44
2,2,4-Trimethylpentane
Concen: 0.811 ppbv
RT: 7.320 min Scan# 1466
Delta R.T. 0.003 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

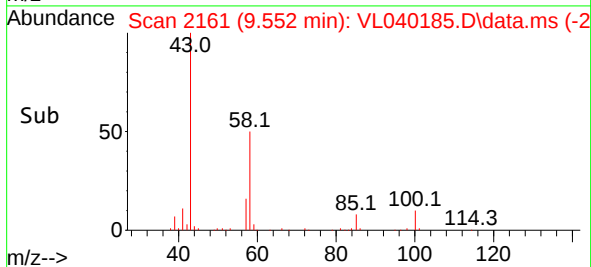
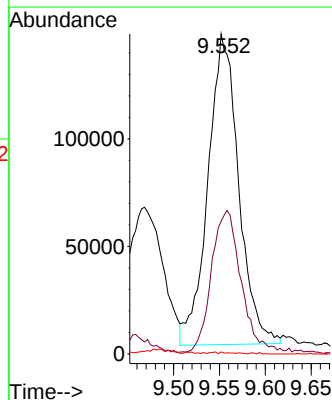
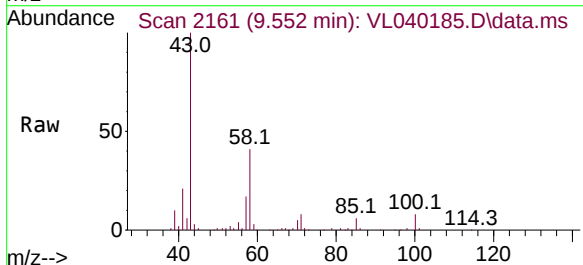
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

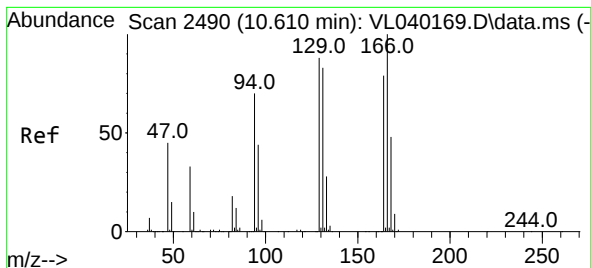
Tgt Ion: 57 Resp: 236532
Ion Ratio Lower Upper
57 100
41 40.0 26.2 39.4#
56 40.5 24.9 37.3#



#51
2-Hexanone
Concen: 2.538 ppbv
RT: 9.552 min Scan# 2161
Delta R.T. 0.007 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 43 Resp: 335770
Ion Ratio Lower Upper
43 100
58 46.3 39.1 58.7
98 0.4 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.424 ppbv m

RT: 10.616 min Scan# 2490

Delta R.T. 0.007 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

SVP-03

Tgt Ion:164 Resp: 23126

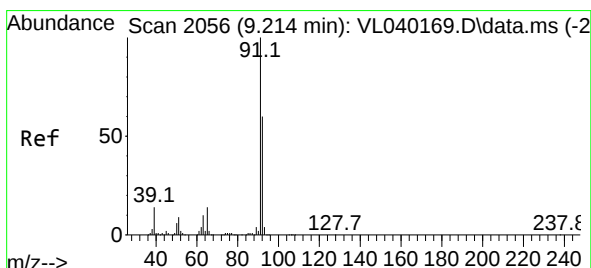
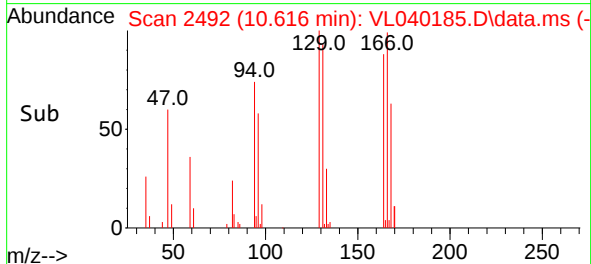
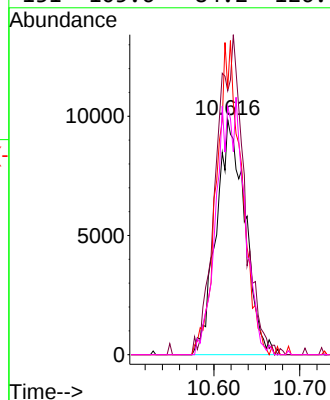
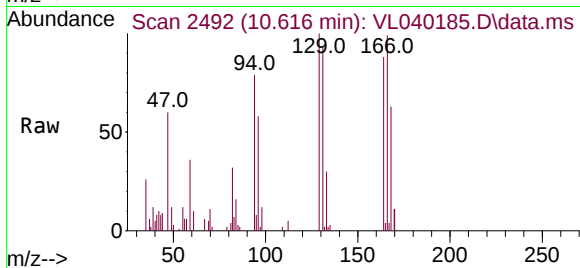
Ion Ratio Lower Upper

164 100

166 112.4 101.5 152.3

129 113.3 89.0 133.4

131 105.6 84.2 126.4



#53

Toluene

Concen: 4.116 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. 0.007 min

Lab File: VL040185.D

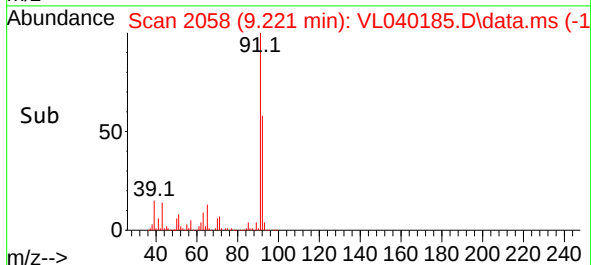
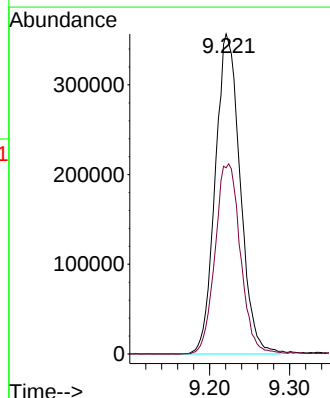
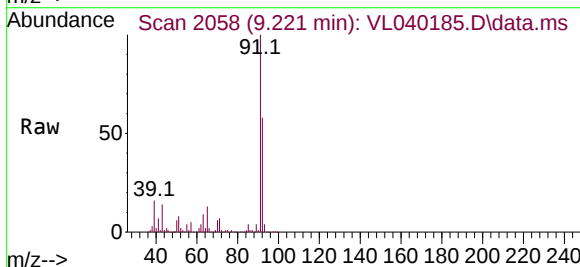
Acq: 16 Feb 2023 19:42

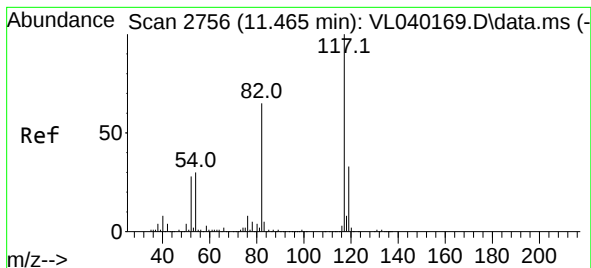
Tgt Ion: 91 Resp: 770635

Ion Ratio Lower Upper

91 100

92 60.9 48.9 73.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_1

ClientSampleId :

SVP-03

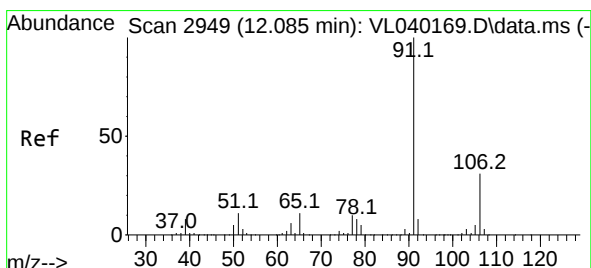
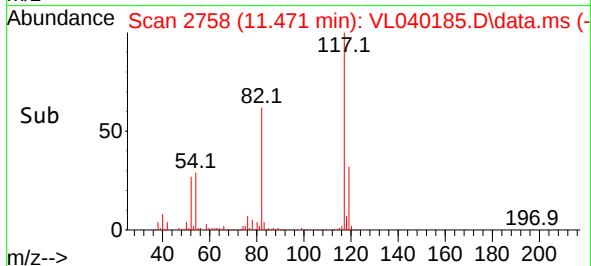
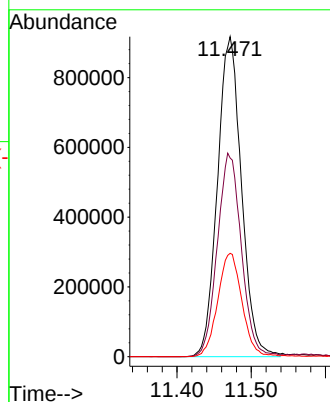
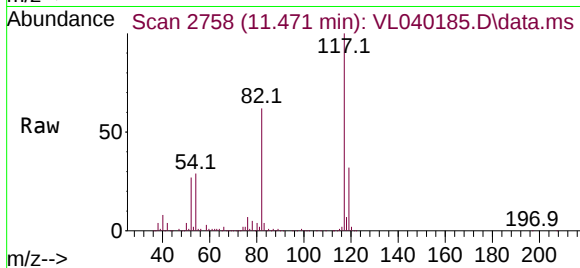
Tgt Ion:117 Resp: 2064902

Ion Ratio Lower Upper

117 100

82 63.6 53.3 79.9

119 32.7 24.6 37.0



#58

Ethyl Benzene

Concen: 1.131 ppbv

RT: 12.095 min Scan# 2952

Delta R.T. 0.010 min

Lab File: VL040185.D

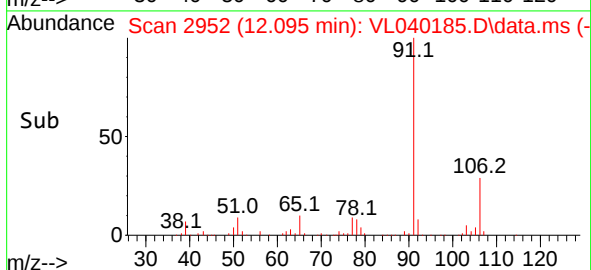
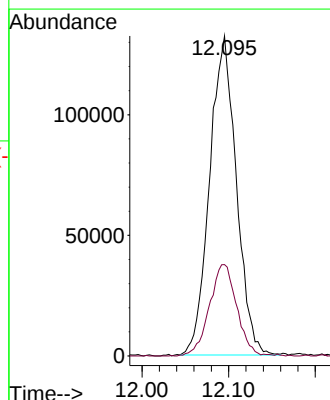
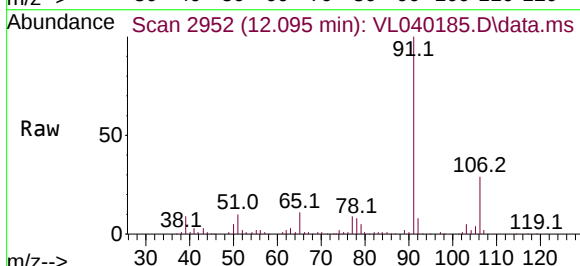
Acq: 16 Feb 2023 19:42

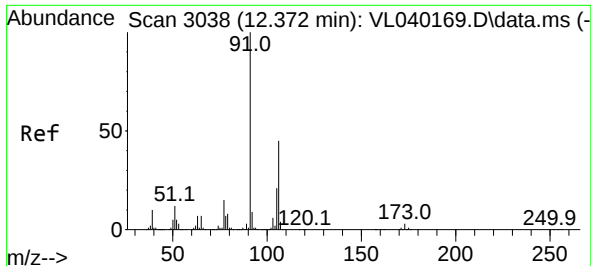
Tgt Ion: 91 Resp: 283671

Ion Ratio Lower Upper

91 100

106 28.3 24.9 37.3





#59

m/p-Xylene

Concen: 4.230 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. -0.026 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

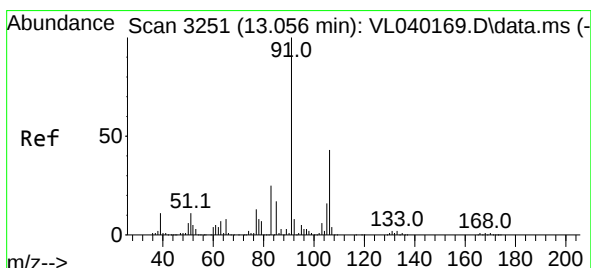
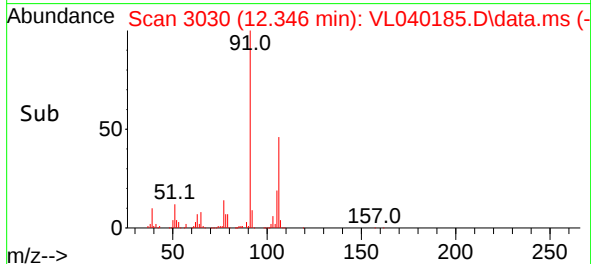
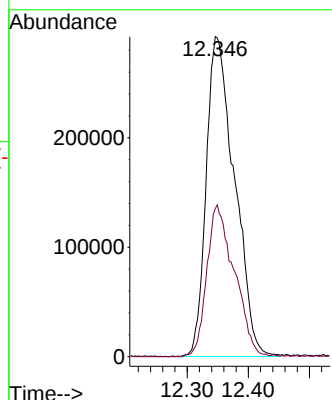
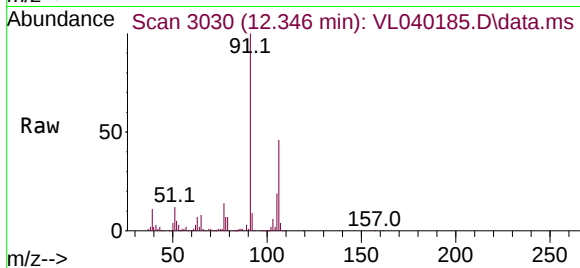
SVP-03

Tgt Ion: 91 Resp: 940043

Ion Ratio Lower Upper

91 100

106 46.3 34.6 51.8



#60

o-Xylene

Concen: 1.859 ppbv

RT: 13.066 min Scan# 3254

Delta R.T. 0.010 min

Lab File: VL040185.D

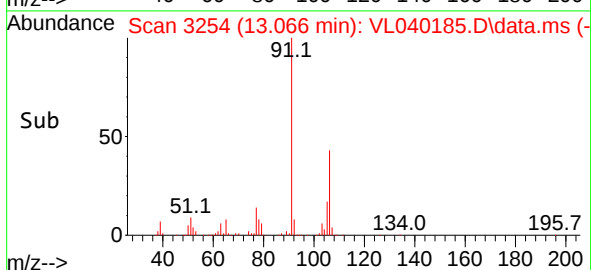
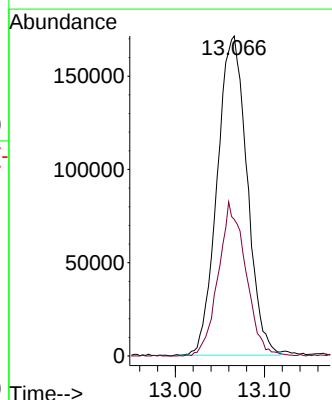
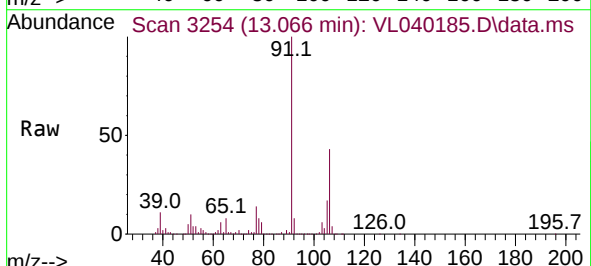
Acq: 16 Feb 2023 19:42

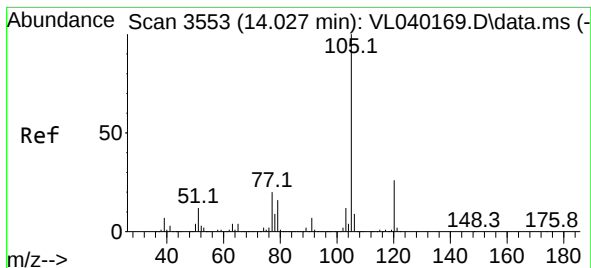
Tgt Ion: 91 Resp: 397444

Ion Ratio Lower Upper

91 100

106 44.6 21.6 65.0





#62

Isopropylbenzene

Concen: 0.125 ppbv

RT: 14.037 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL040185.D

Acq: 16 Feb 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

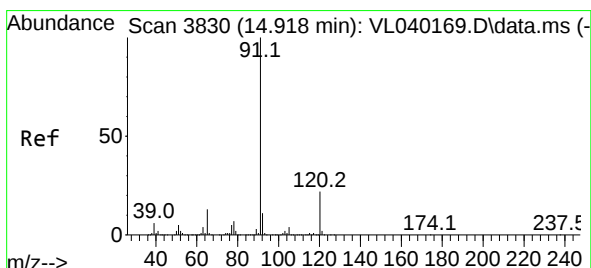
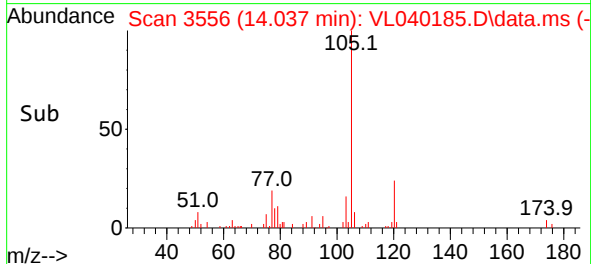
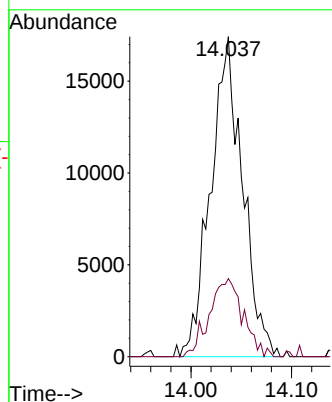
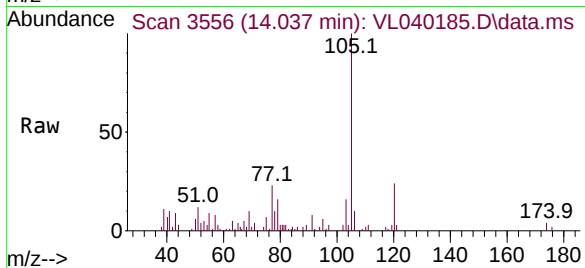
SVP-03

Tgt Ion:105 Resp: 38364

Ion Ratio Lower Upper

105 100

120 26.3 20.3 30.5



#64

n-propylbenzene

Concen: 0.413 ppbv

RT: 14.921 min Scan# 3831

Delta R.T. 0.003 min

Lab File: VL040185.D

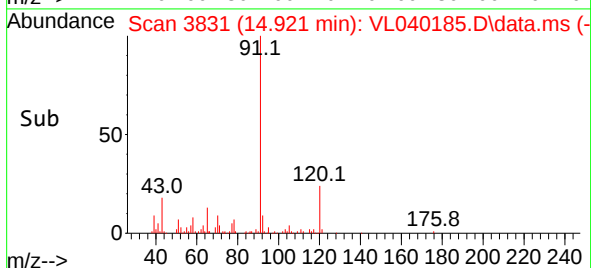
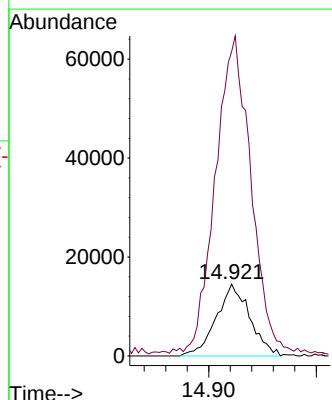
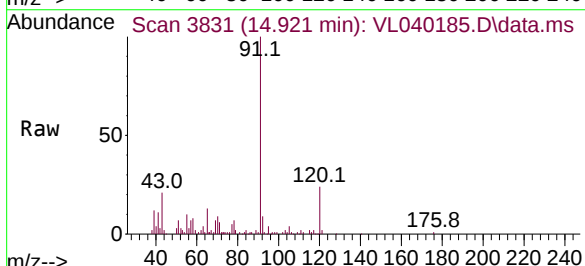
Acq: 16 Feb 2023 19:42

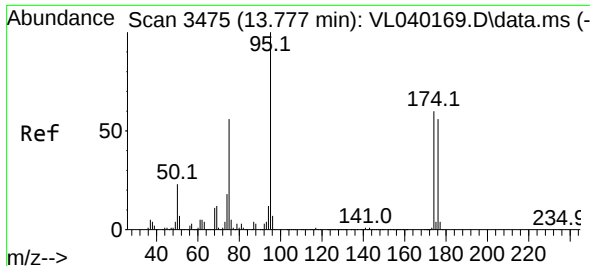
Tgt Ion:120 Resp: 31393

Ion Ratio Lower Upper

120 100

91 469.8 389.8 584.8

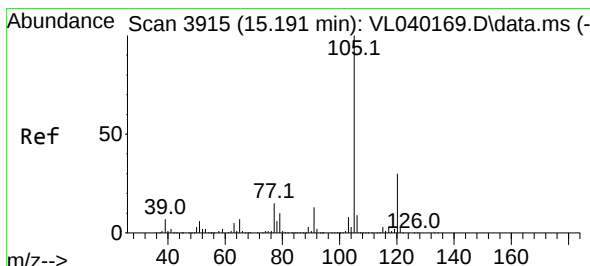
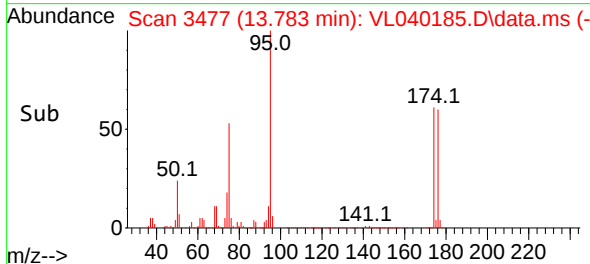
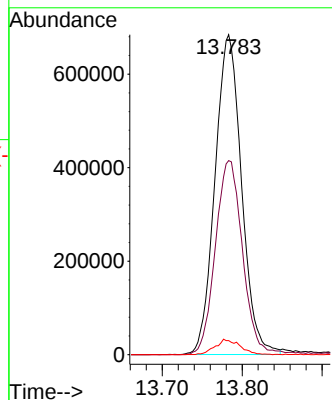
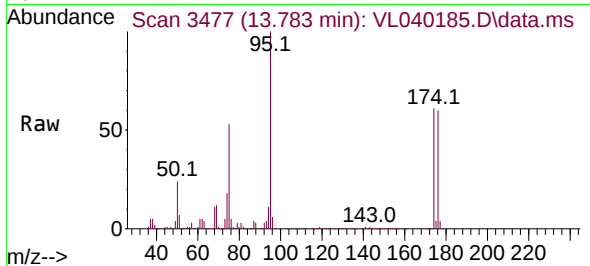




#68
1-Bromo-4-Fluorobenzene
Concen: 9.298 ppbv
RT: 13.783 min Scan# 3475
Delta R.T. 0.007 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

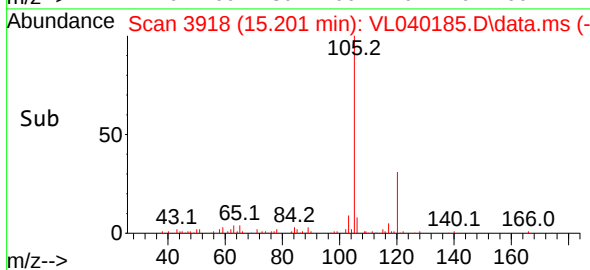
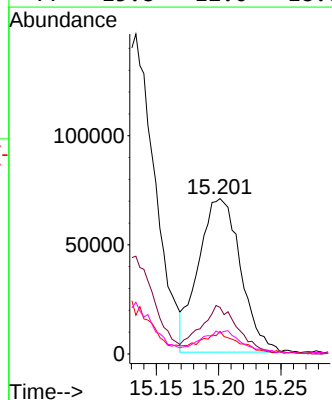
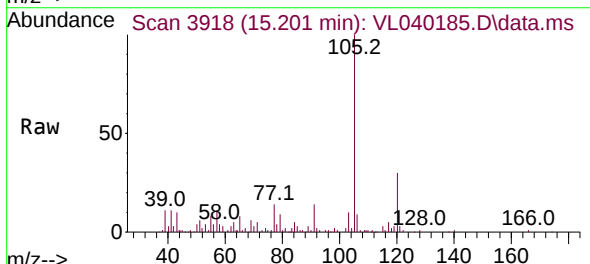
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

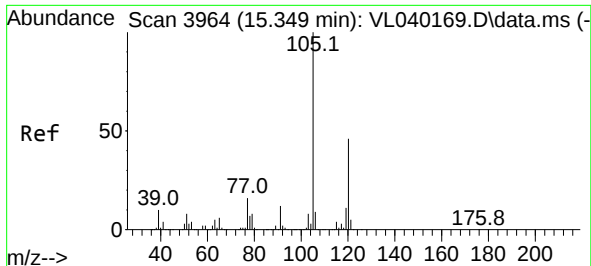
Tgt Ion: 95 Resp: 1578719
Ion Ratio Lower Upper
95 100
174 63.4 48.2 72.2
175 4.6 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.702 ppbv
RT: 15.201 min Scan# 3918
Delta R.T. 0.010 min
Lab File: VL040185.D
Acq: 16 Feb 2023 19:42

Tgt Ion: 105 Resp: 165925
Ion Ratio Lower Upper
105 100
120 28.3 23.2 34.8
91 13.2 11.3 16.9
77 15.8 12.0 18.0

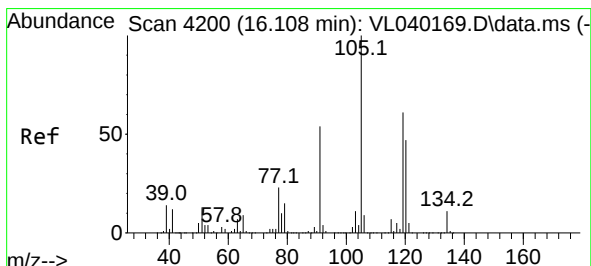
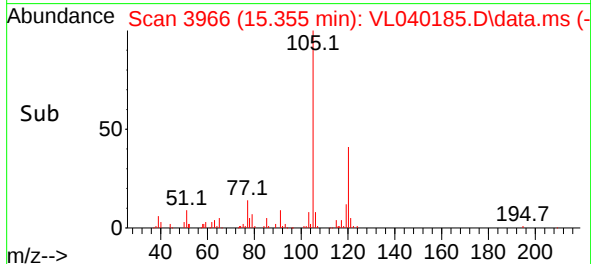
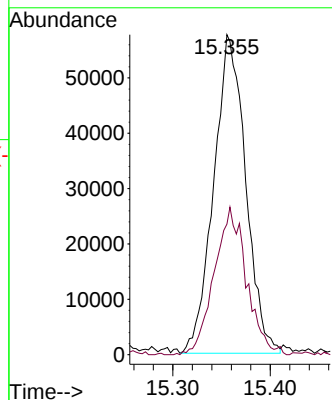
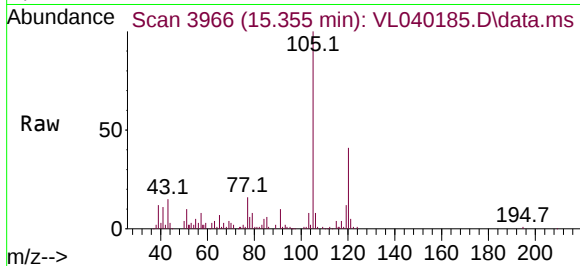




#73
 1,3,5-Trimethylbenzene
 Concen: 0.595 ppbv
 RT: 15.355 min Scan# 3966
 Delta R.T. 0.007 min
 Lab File: VL040185.D
 Acq: 16 Feb 2023 19:42

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03

Tgt Ion:105 Resp: 130931
 Ion Ratio Lower Upper
 105 100
 120 41.0 36.8 55.2



#74
 1,2,4-Trimethylbenzene
 Concen: 2.064 ppbv
 RT: 16.111 min Scan# 4201
 Delta R.T. 0.003 min
 Lab File: VL040185.D
 Acq: 16 Feb 2023 19:42

Tgt Ion:105 Resp: 498639
 Ion Ratio Lower Upper
 105 100
 120 41.2 37.9 56.9
 91 11.6 43.7 65.5#
 77 13.4 18.3 27.5#

