

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032223\
 Data File : VY013051.D
 Acq On : 22 Mar 2023 15:55
 Operator : KP/MD
 Sample : 02032-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 S-1

Quant Time: Mar 23 07:38:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030223S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 03 01:13:13 2023
 Response via : Initial Calibration

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

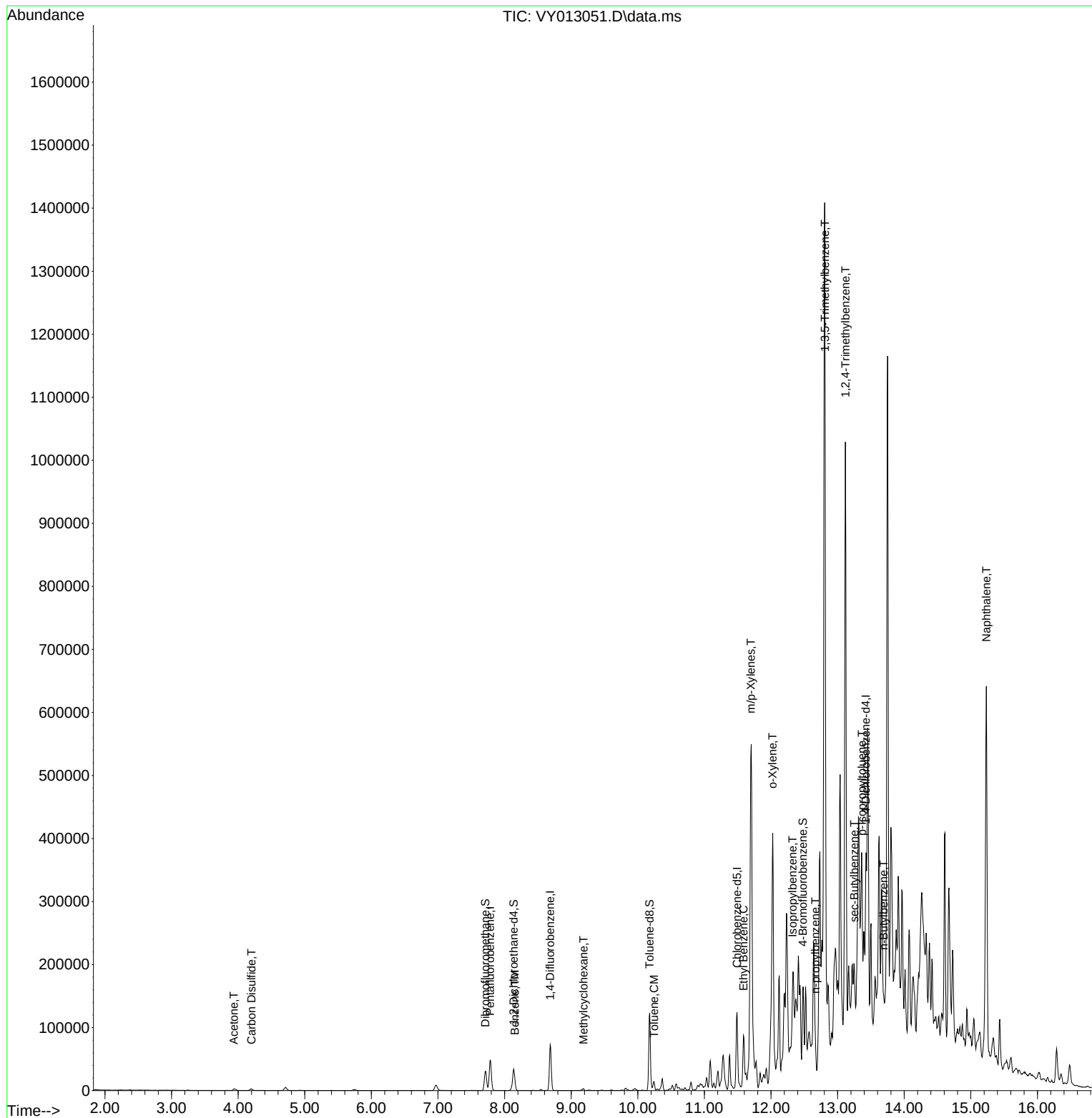
Internal Standards						
1) Pentafluorobenzene	7.783	168	37557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	59987	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	63996	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	33828	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	24109	64.654	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 129.300%	
35) Dibromofluoromethane	7.710	113	22349	61.734	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 123.460%	
50) Toluene-d8	10.179	98	75706	57.202	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 114.400%	
62) 4-Bromofluorobenzene	12.477	95	30978	69.348	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 138.700%	
Target Compounds						
					Qvalue	
16) Acetone	3.936	43	4912	33.560	ug/l	98
17) Carbon Disulfide	4.198	76	3150	2.393	ug/l	99
39) Methylcyclohexane	9.185	83	1194	1.655	ug/l	99
40) Benzene	8.155	78	2043	1.190	ug/l	98
52) Toluene	10.246	92	5885	5.686	ug/l	99
67) Ethyl Benzene	11.587	91	53858	22.808	ug/l	98
68) m/p-Xylenes	11.697	106	126343	139.079	ug/l	100
69) o-Xylene	12.026	106	93953	110.817	ug/l	99
73) Isopropylbenzene	12.325	105	22572	9.415	ug/l	93
78) n-propylbenzene	12.666	91	25413	8.598	ug/l	98
80) 1,3,5-Trimethylbenzene	12.812	105	258505	130.657	ug/l	99
84) 1,2,4-Trimethylbenzene	13.117	105	457541	236.495	ug/l	99
85) sec-Butylbenzene	13.251	105	23140	8.882	ug/l	82
86) p-Isopropyltoluene	13.367	119	50508	23.722	ug/l	99
89) n-Butylbenzene	13.690	91	14893	7.307	ug/l #	65
95) Naphthalene	15.233	128	459069	366.426	ug/l	99

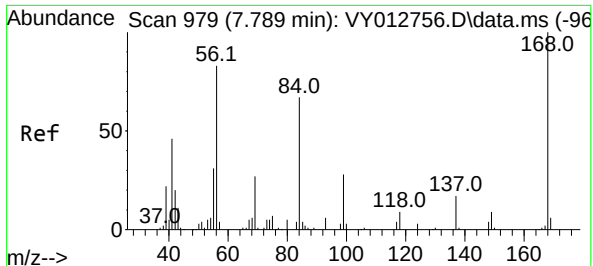
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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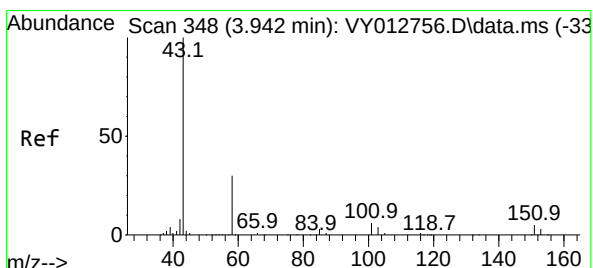
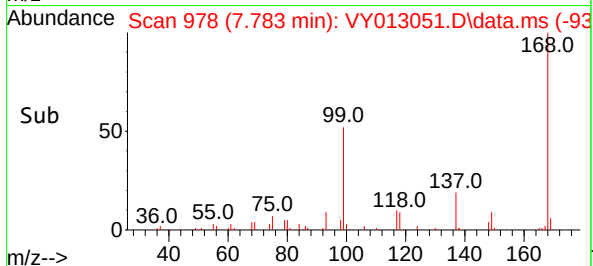
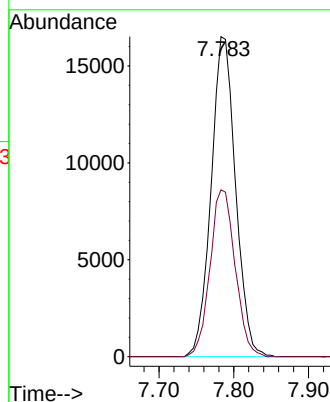
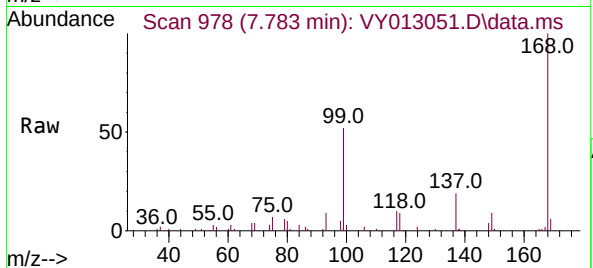




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

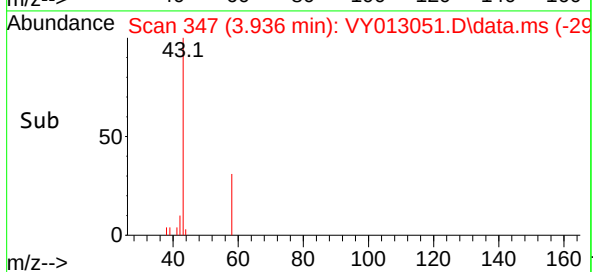
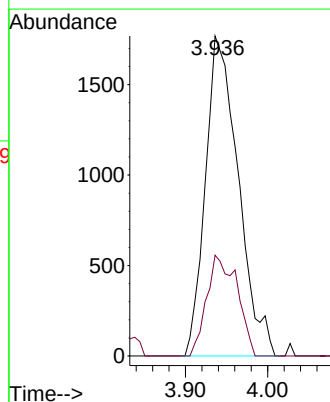
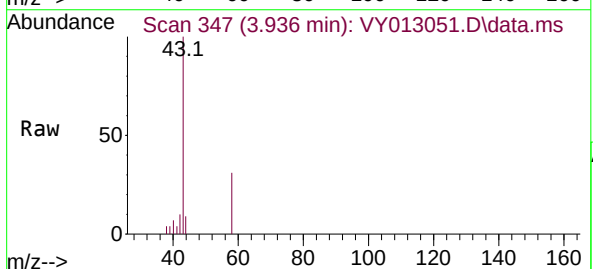
Instrument :
MSVOA_Y
ClientSampleId :
S-1

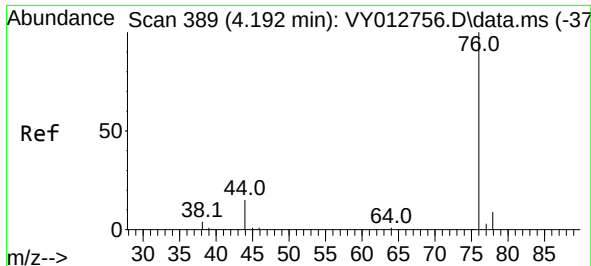
Tgt Ion:168 Resp: 37557
Ion Ratio Lower Upper
168 100
99 52.2 41.7 62.5



#16
Acetone
Concen: 33.560 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

Tgt Ion: 43 Resp: 4912
Ion Ratio Lower Upper
43 100
58 31.5 24.2 36.2

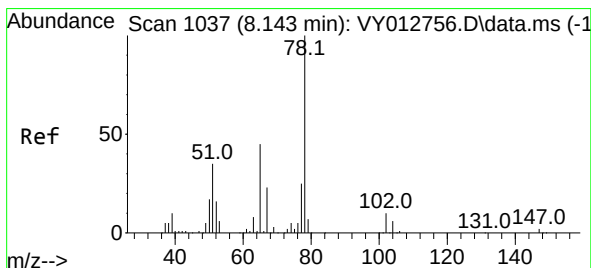
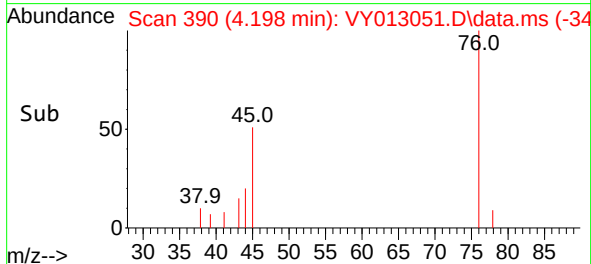
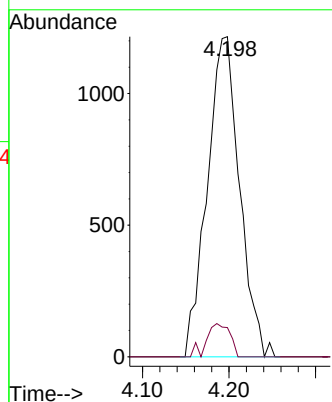
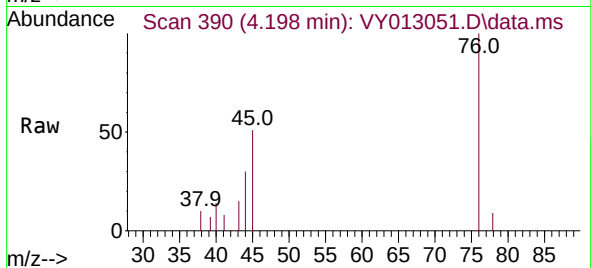




#17
Carbon Disulfide
Concen: 2.393 ug/l
RT: 4.198 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

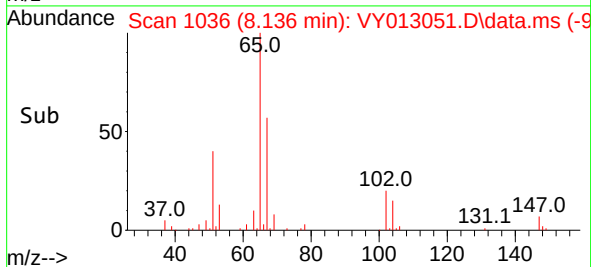
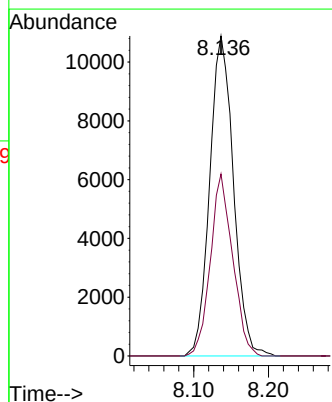
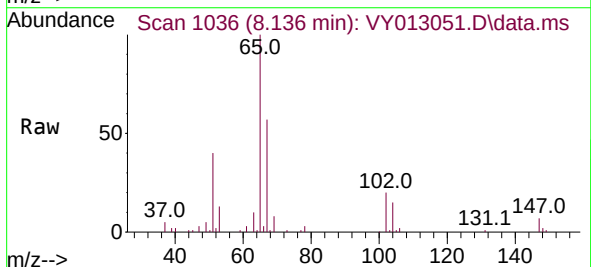
Instrument :
MSVOA_Y
ClientSampleId :
S-1

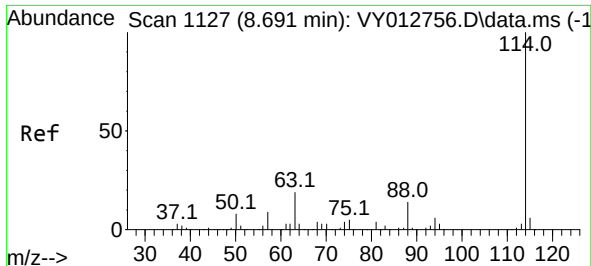
Tgt Ion: 76 Resp: 3150
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7



#33
1,2-Dichloroethane-d4
Concen: 64.654 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.007 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

Tgt Ion: 65 Resp: 24109
Ion Ratio Lower Upper
65 100
67 53.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

Instrument :

MSVOA_Y

ClientSampleId :

S-1

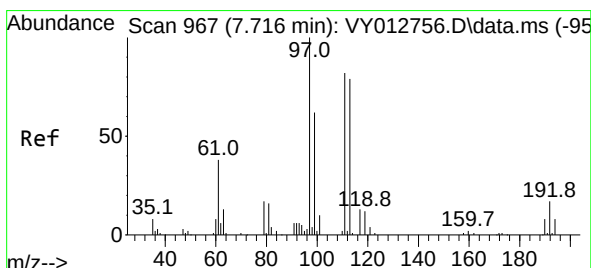
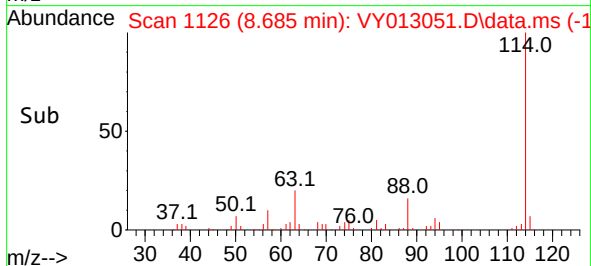
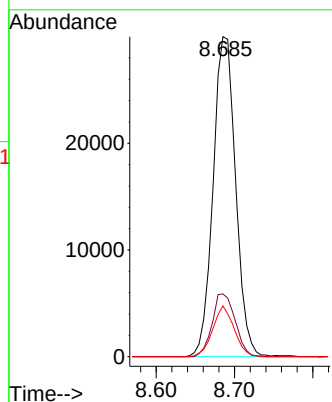
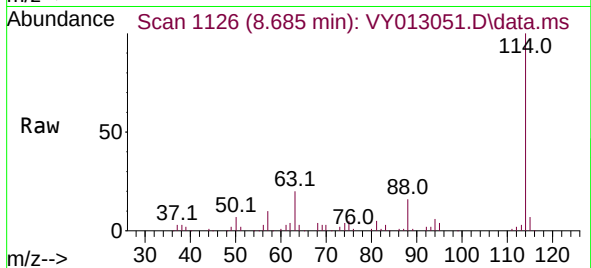
Tgt Ion:114 Resp: 59987

Ion Ratio Lower Upper

114 100

63 19.6 0.0 37.4

88 15.9 0.0 28.6



#35

Dibromofluoromethane

Concen: 61.734 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

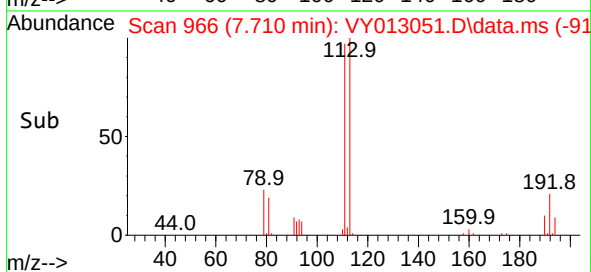
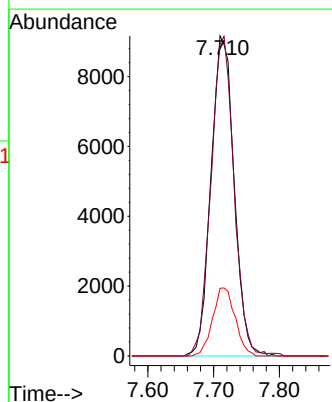
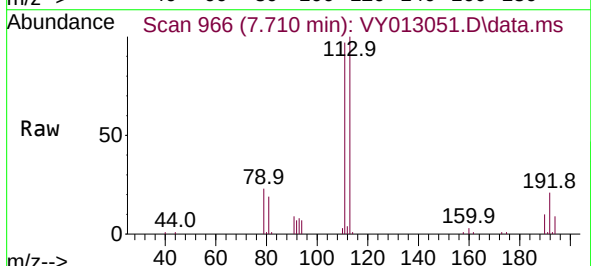
Tgt Ion:113 Resp: 22349

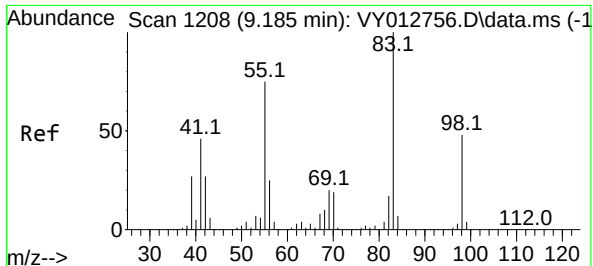
Ion Ratio Lower Upper

113 100

111 99.5 82.2 123.2

192 20.7 16.8 25.2





#39

Methylcyclohexane

Concen: 1.655 ug/l

RT: 9.185 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

Instrument :

MSVOA_Y

ClientSampleId :

S-1

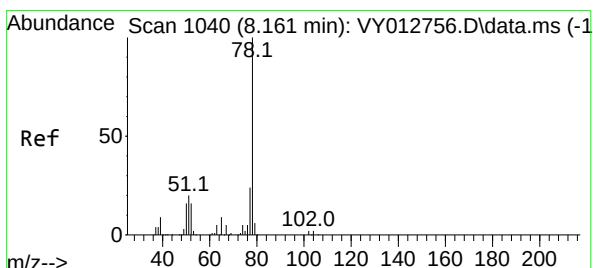
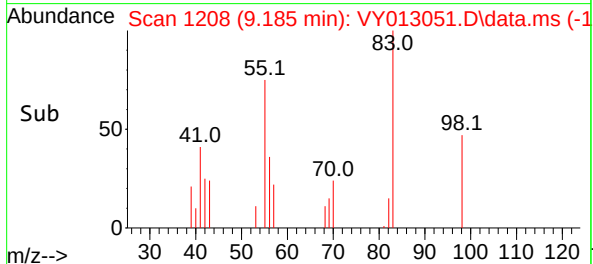
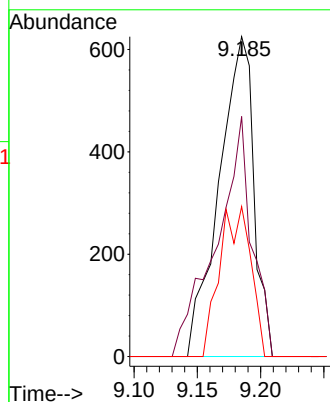
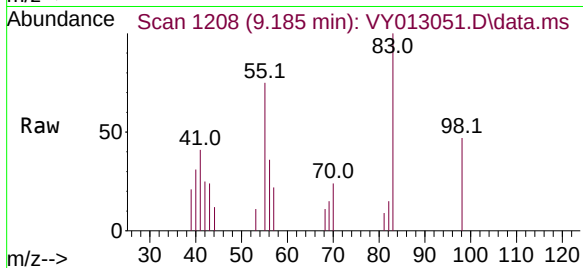
Tgt Ion: 83 Resp: 1194

Ion Ratio Lower Upper

83 100

55 75.0 60.0 90.0

98 46.9 38.3 57.5



#40

Benzene

Concen: 1.190 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VY013051.D

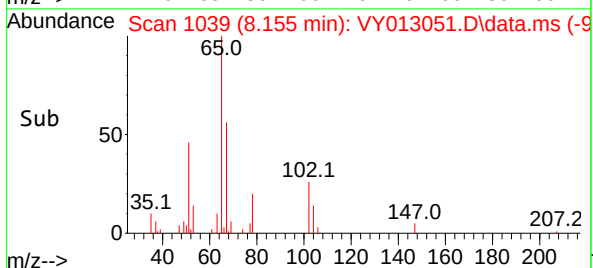
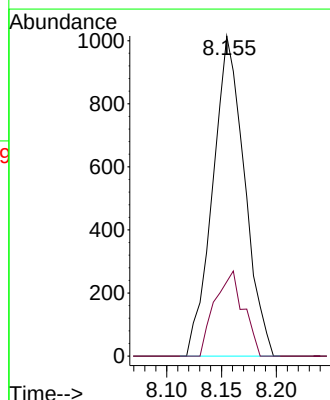
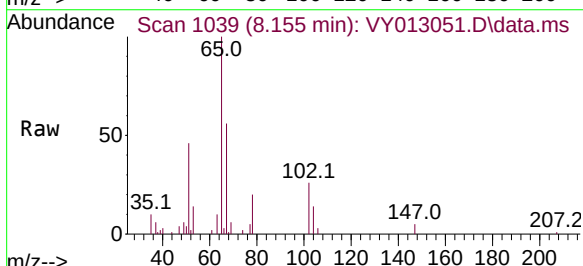
Acq: 22 Mar 2023 15:55

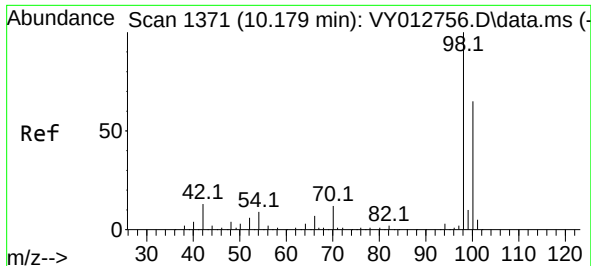
Tgt Ion: 78 Resp: 2043

Ion Ratio Lower Upper

78 100

77 23.3 19.4 29.0

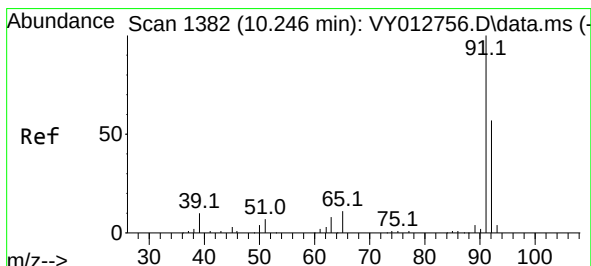
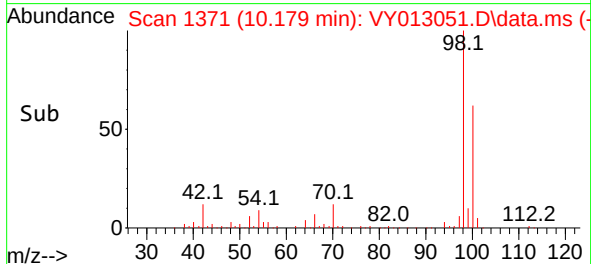
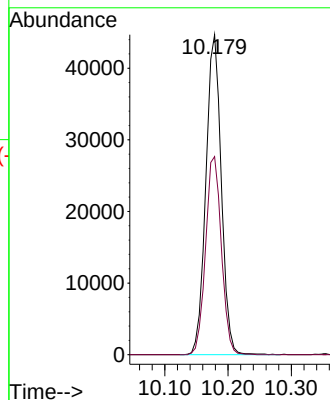
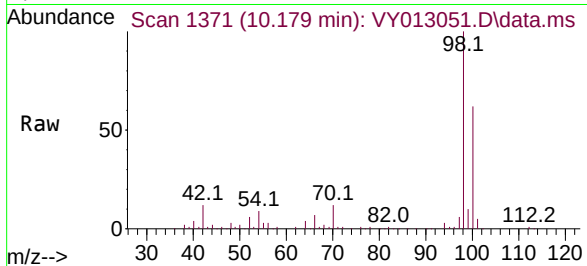




#50
Toluene-d8
Concen: 57.202 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

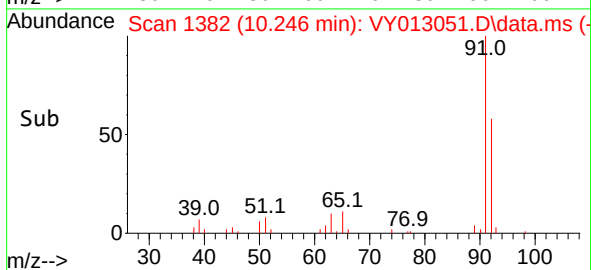
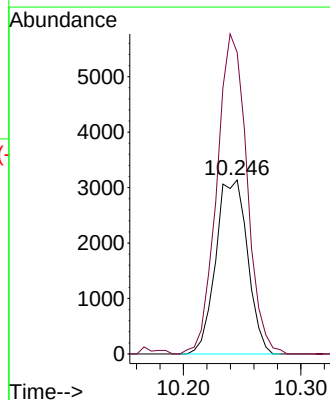
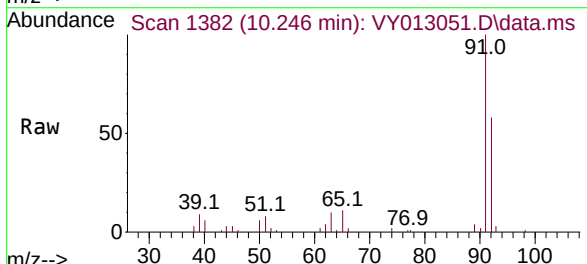
Instrument :
MSVOA_Y
ClientSampleId :
S-1

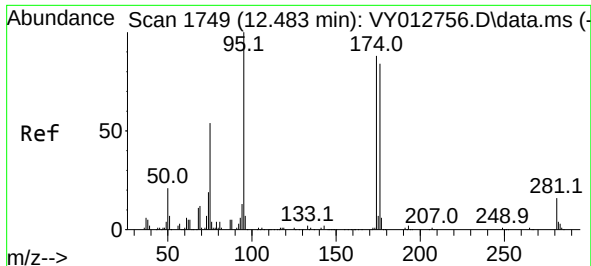
Tgt Ion: 98 Resp: 75706
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3



#52
Toluene
Concen: 5.686 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

Tgt Ion: 92 Resp: 5885
Ion Ratio Lower Upper
92 100
91 174.9 141.3 211.9





#62

4-Bromofluorobenzene

Concen: 69.348 ug/l

RT: 12.477 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

Instrument :

MSVOA_Y

ClientSampleId :

S-1

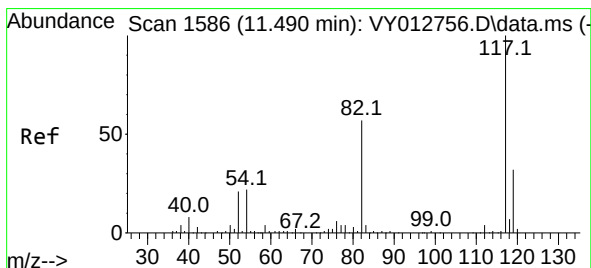
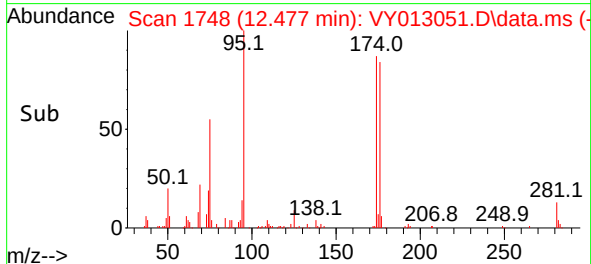
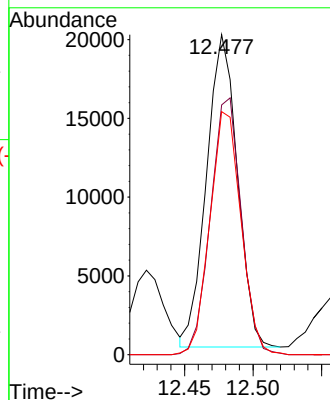
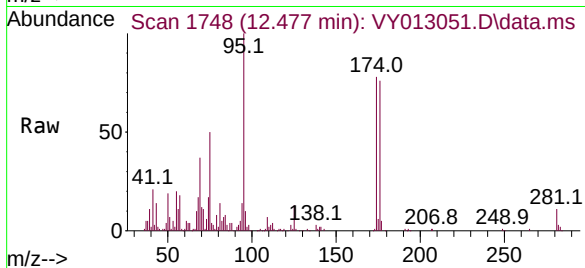
Tgt Ion: 95 Resp: 30978

Ion Ratio Lower Upper

95 100

174 82.1 0.0 176.6

176 78.8 0.0 170.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. -0.000 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

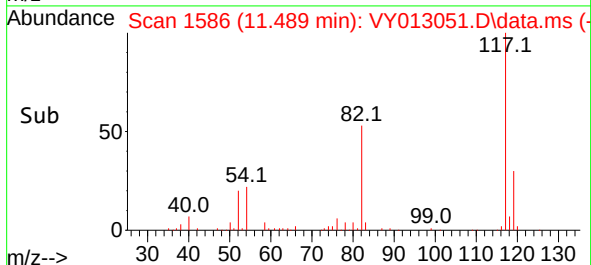
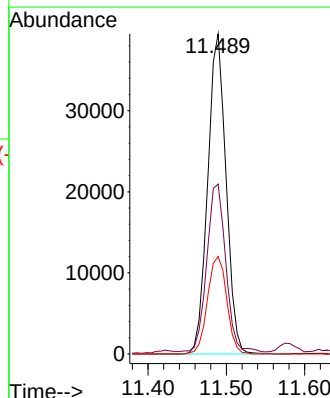
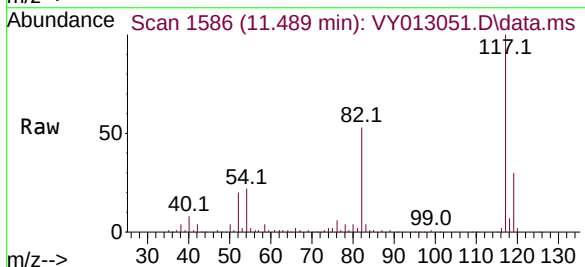
Tgt Ion: 117 Resp: 63996

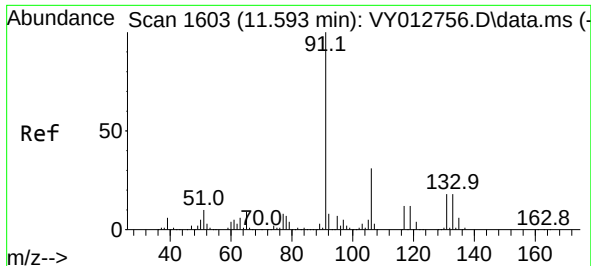
Ion Ratio Lower Upper

117 100

82 52.3 45.4 68.0

119 30.5 25.6 38.4





#67

Ethyl Benzene

Concen: 22.808 ug/l

RT: 11.587 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

Instrument :

MSVOA_Y

ClientSampleId :

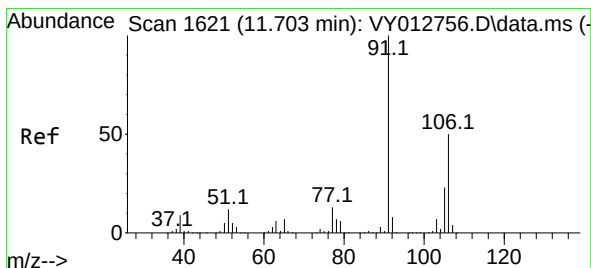
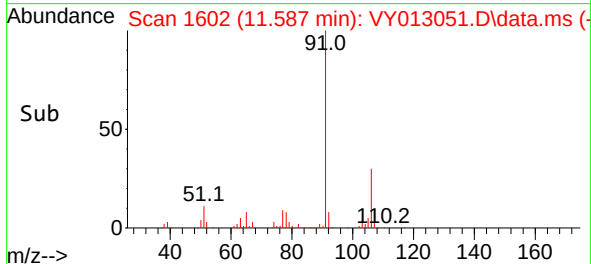
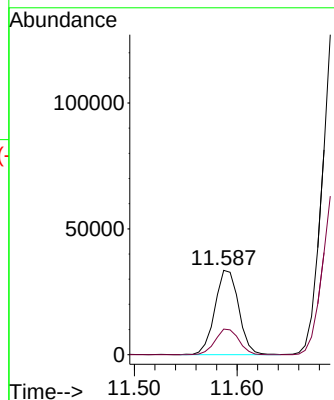
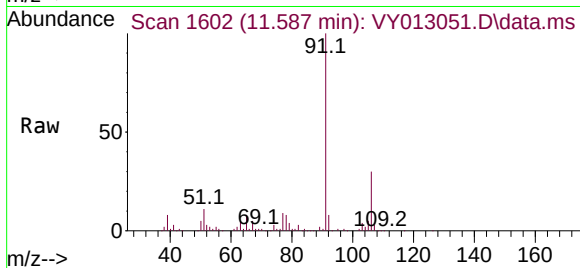
S-1

Tgt Ion: 91 Resp: 53858

Ion Ratio Lower Upper

91 100

106 30.3 25.1 37.7



#68

m/p-Xylenes

Concen: 139.079 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY013051.D

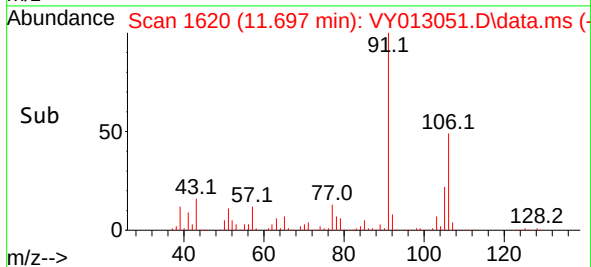
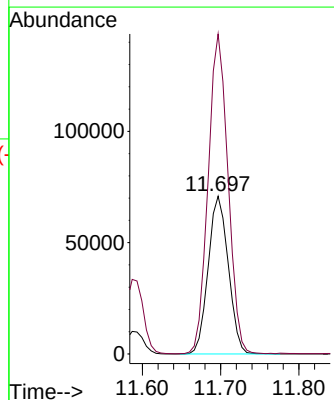
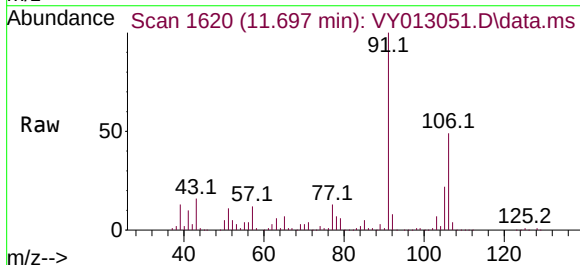
Acq: 22 Mar 2023 15:55

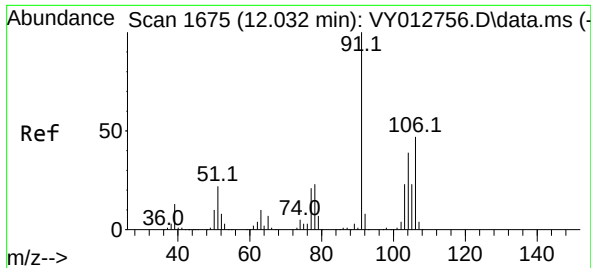
Tgt Ion:106 Resp: 126343

Ion Ratio Lower Upper

106 100

91 200.2 159.8 239.8

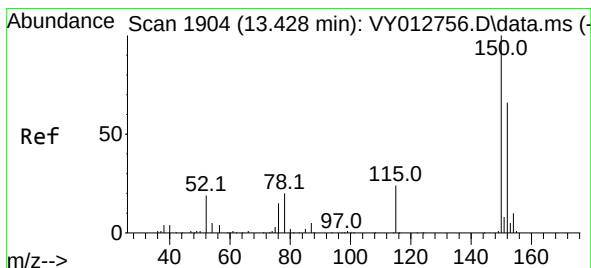
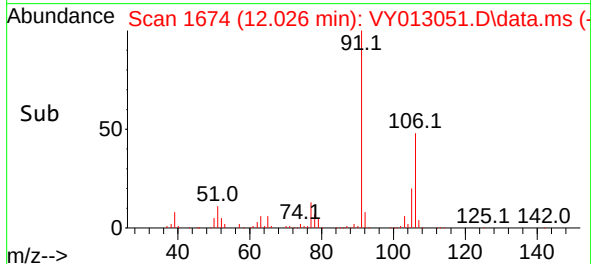
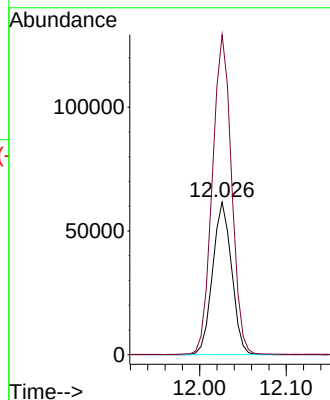
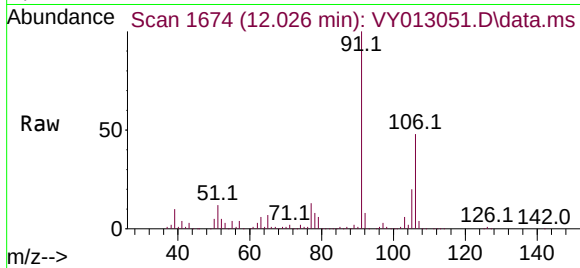




#69
o-Xylene
Concen: 110.817 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

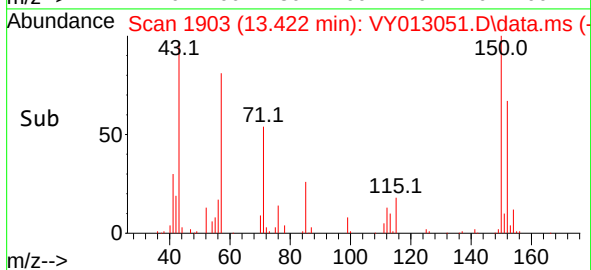
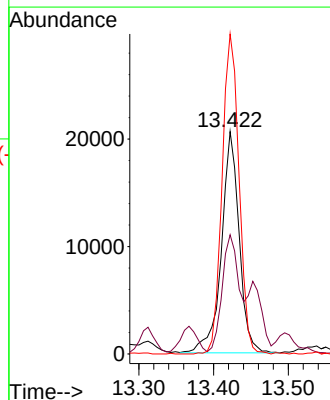
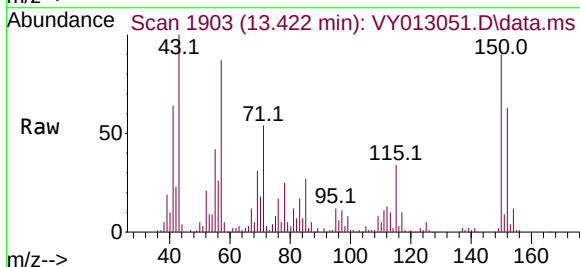
Instrument :
MSVOA_Y
ClientSampleId :
S-1

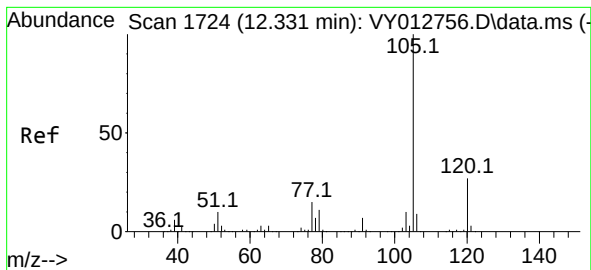
Tgt Ion:106 Resp: 93953
Ion Ratio Lower Upper
106 100
91 212.2 107.2 321.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

Tgt Ion:152 Resp: 33828
Ion Ratio Lower Upper
152 100
115 50.6 27.1 81.3
150 138.4 0.0 347.8





#73

Isopropylbenzene

Concen: 9.415 ug/l

RT: 12.325 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

Instrument :

MSVOA_Y

ClientSampleId :

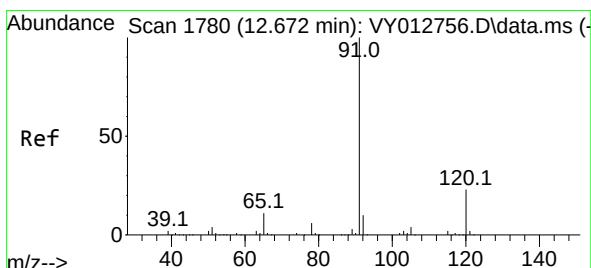
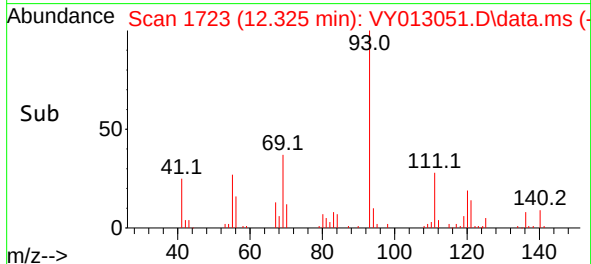
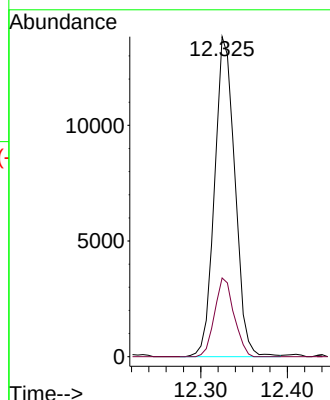
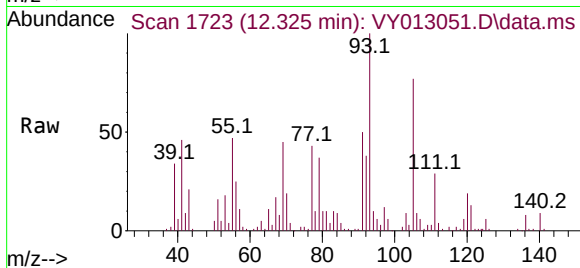
S-1

Tgt Ion:105 Resp: 22572

Ion Ratio Lower Upper

105 100

120 23.4 13.4 40.2



#78

n-propylbenzene

Concen: 8.598 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. -0.006 min

Lab File: VY013051.D

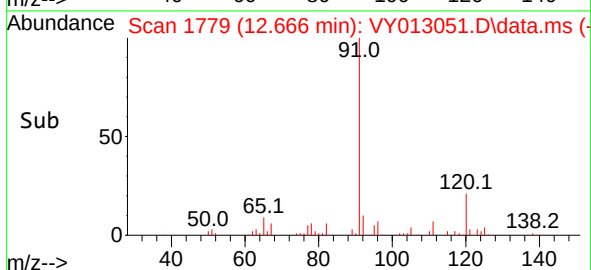
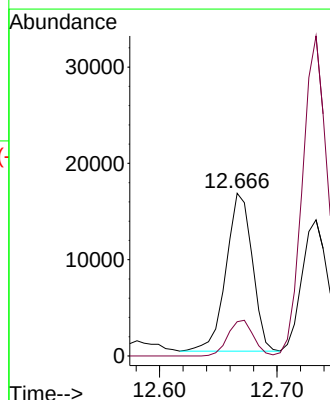
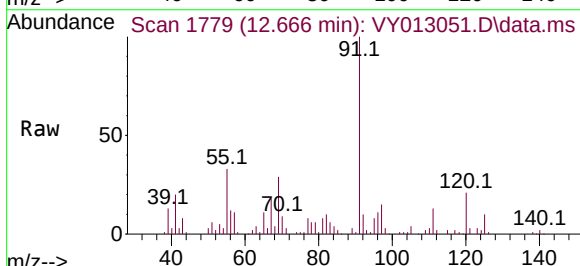
Acq: 22 Mar 2023 15:55

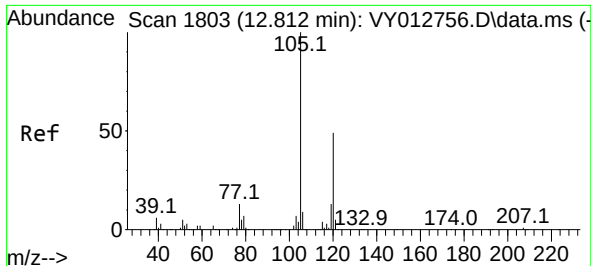
Tgt Ion: 91 Resp: 25413

Ion Ratio Lower Upper

91 100

120 22.0 11.6 34.8

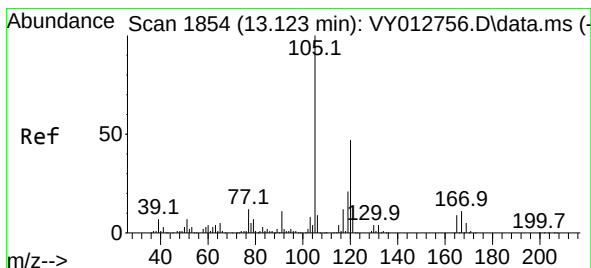
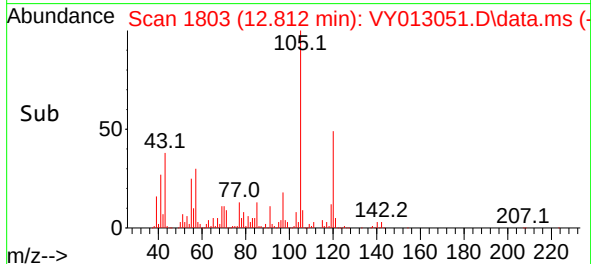
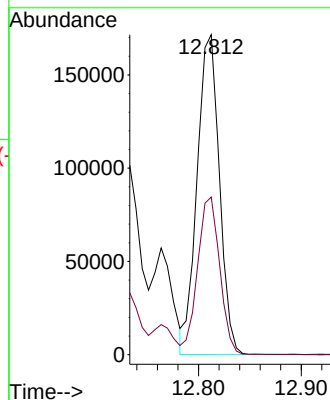
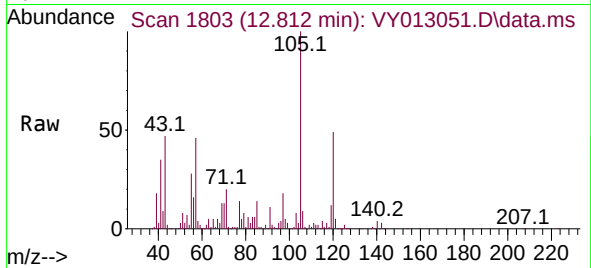




#80
1,3,5-Trimethylbenzene
Concen: 130.657 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

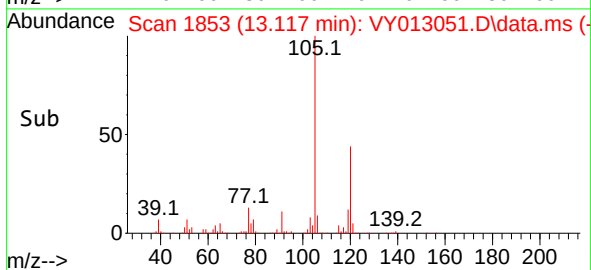
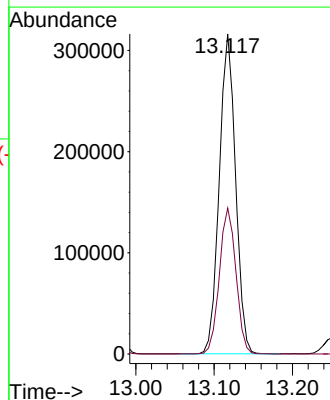
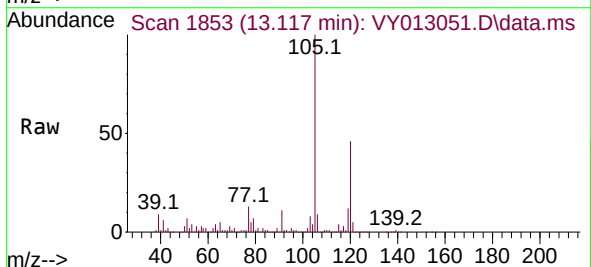
Instrument :
MSVOA_Y
ClientSampleId :
S-1

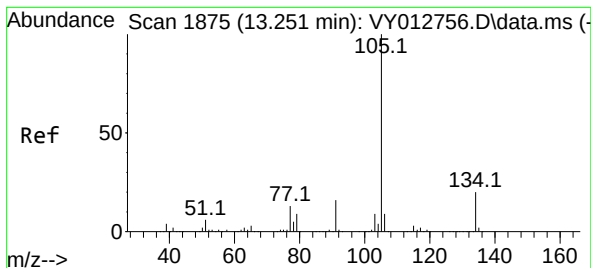
Tgt Ion:105 Resp: 258505
Ion Ratio Lower Upper
105 100
120 49.1 24.8 74.4



#84
1,2,4-Trimethylbenzene
Concen: 236.495 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

Tgt Ion:105 Resp: 457541
Ion Ratio Lower Upper
105 100
120 46.5 23.0 69.0





#85

sec-Butylbenzene

Concen: 8.882 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

Instrument :

MSVOA_Y

ClientSampleId :

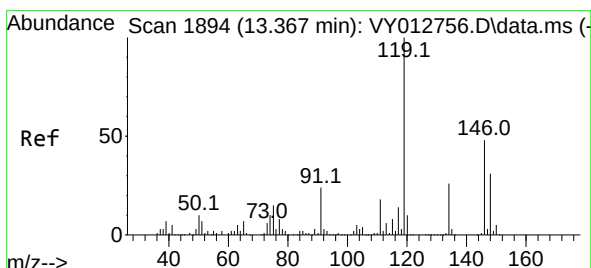
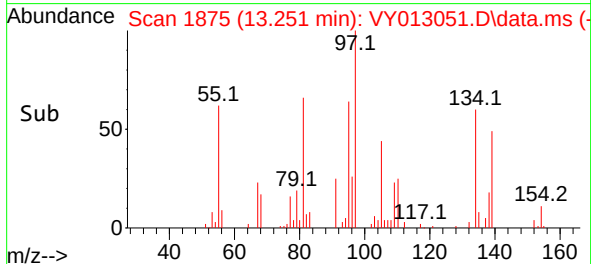
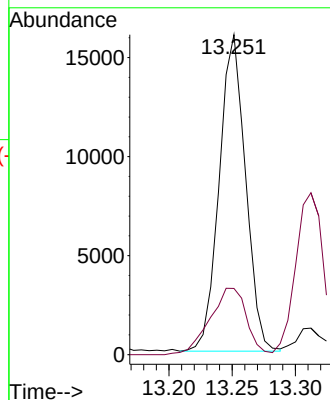
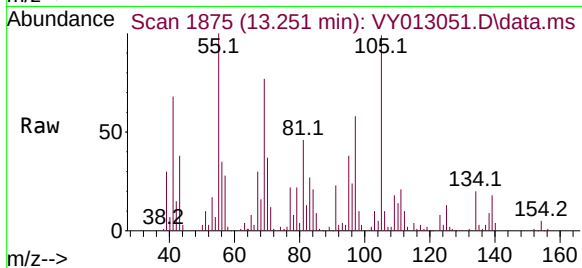
S-1

Tgt Ion:105 Resp: 23140

Ion Ratio Lower Upper

105 100

134 29.2 10.4 31.1



#86

p-Isopropyltoluene

Concen: 23.722 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.000 min

Lab File: VY013051.D

Acq: 22 Mar 2023 15:55

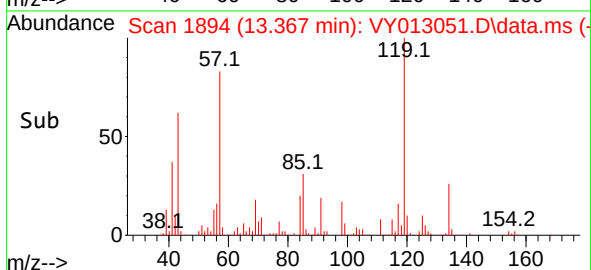
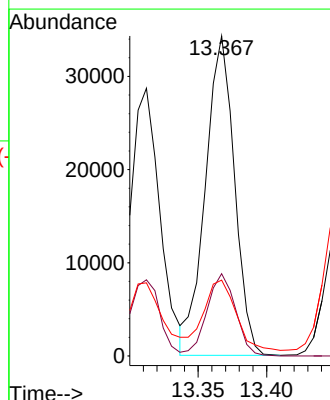
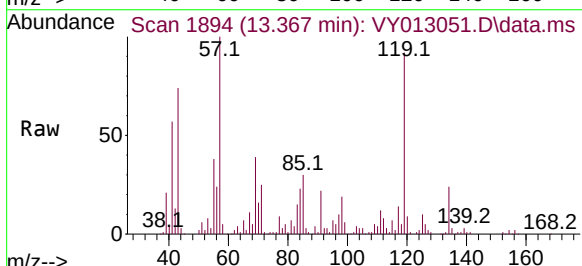
Tgt Ion:119 Resp: 50508

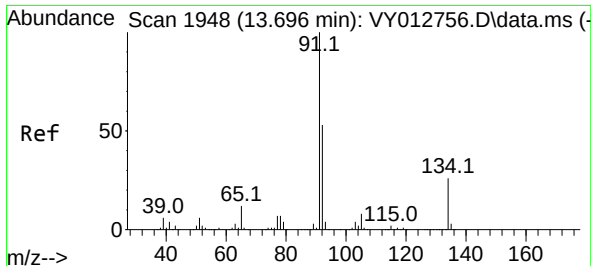
Ion Ratio Lower Upper

119 100

134 25.4 13.2 39.6

91 23.5 11.8 35.3

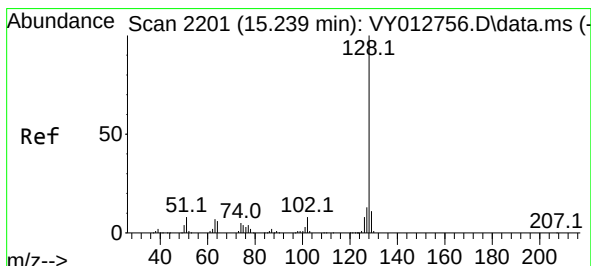
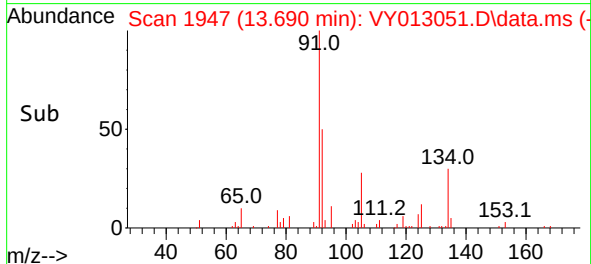
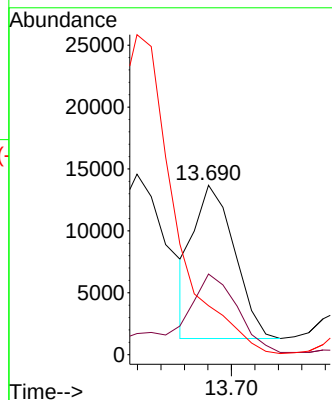
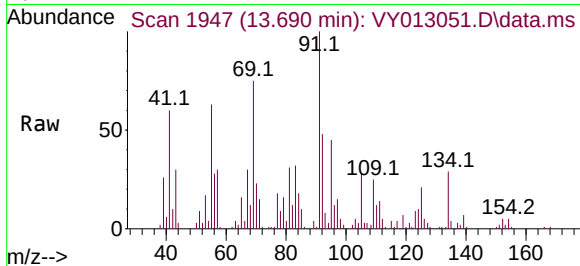




#89
n-Butylbenzene
Concen: 7.307 ug/l
RT: 13.690 min Scan# 1948
Delta R.T. -0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

Instrument :
MSVOA_Y
ClientSampleId :
S-1

Tgt Ion: 91 Resp: 14893
Ion Ratio Lower Upper
91 100
92 72.5 26.4 79.0
134 0.0 13.0 38.9#



#95
Naphthalene
Concen: 366.426 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.006 min
Lab File: VY013051.D
Acq: 22 Mar 2023 15:55

Tgt Ion:128 Resp: 459069
Ion Ratio Lower Upper
128 100
127 13.3 10.3 15.5
129 11.0 8.6 13.0

