

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031423\
 Data File : VY012945.D
 Acq On : 14 Mar 2023 16:10
 Operator : KP/MD
 Sample : 01919-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-02-03142023

Quant Time: Mar 15 01:44:17 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)

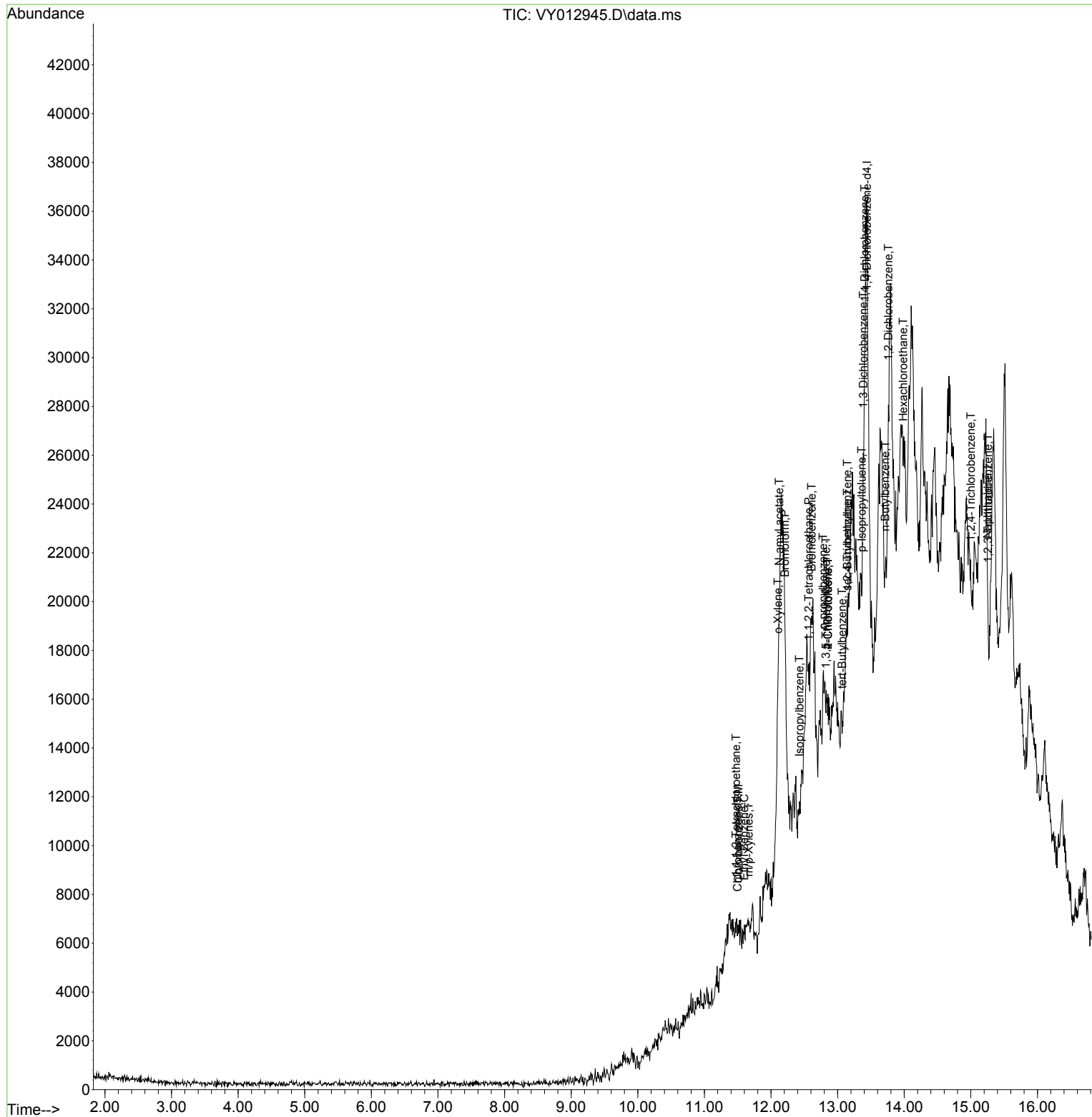
Internal Standards						
1) Pentafluorobenzene	0.000	168	0	0.000	ug/l	-7.79
34) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/l	-8.69
63) Chlorobenzene-d5	11.495	117	179	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	344	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0	0.000	ug/l	
Spiked Amount	50.000	Range	50 - 163	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0	0.000	ug/l	
Spiked Amount	50.000	Range	54 - 147	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0	0.000	ug/l	
Spiked Amount	50.000	Range	49 - 140	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	12.477	95	226	0.000	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	0.000%#
Target Compounds						Qvalue
65) Chlorobenzene	11.514	112	22	5.856	ug/l #	44
66) 1,1,1,2-Tetrachloroethane	11.477	131	71	51.075	ug/l	80
67) Ethyl Benzene	11.599	91	157	23.770	ug/l #	43
68) m/p-Xylenes	11.666	106	28	11.020	ug/l	93
69) o-Xylene	12.105	106	126	53.133	ug/l	34
71) Bromoform	12.209	173	87	95.988	ug/l #	28
73) Isopropylbenzene	12.428	105	202	8.286	ug/l	84
74) N-amyl acetate	12.123	43	707	92.169	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.568	83	207	37.771	ug/l #	8
77) Bromobenzene	12.611	156	61	10.300	ug/l #	1
78) n-propylbenzene	12.782	91	298	9.914	ug/l	86
79) 2-Chlorotoluene	12.855	91	108	6.465	ug/l	70
80) 1,3,5-Trimethylbenzene	12.824	105	84	4.175	ug/l	91
82) 4-Chlorotoluene	12.855	91	108	6.245	ug/l #	69
83) tert-Butylbenzene	13.068	119	131	7.544	ug/l #	58
84) 1,2,4-Trimethylbenzene	13.147	105	189	9.607	ug/l	74
85) sec-Butylbenzene	13.147	105	189	7.134	ug/l	97
86) p-Isopropyltoluene	13.361	119	84	3.880	ug/l #	1
87) 1,3-Dichlorobenzene	13.385	146	61	5.340	ug/l #	25
88) 1,4-Dichlorobenzene	13.410	146	24	2.059	ug/l #	26
89) n-Butylbenzene	13.714	91	141	6.802	ug/l #	63
90) Hexachloroethane	13.983	117	214	47.454	ug/l #	10
91) 1,2-Dichlorobenzene	13.763	146	234	22.662	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.001	180	22	3.460	ug/l #	1
95) Naphthalene	15.251	128	71	5.573	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.257	180	23	4.068	ug/l #	1

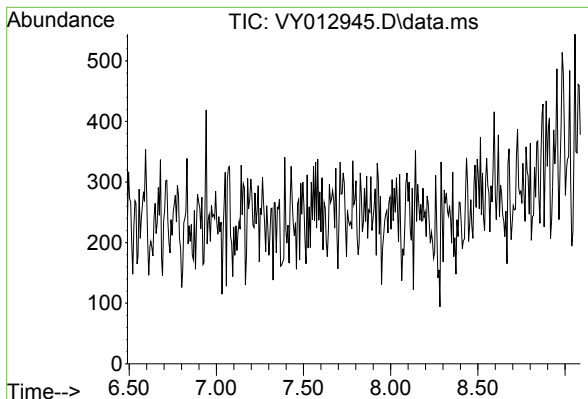
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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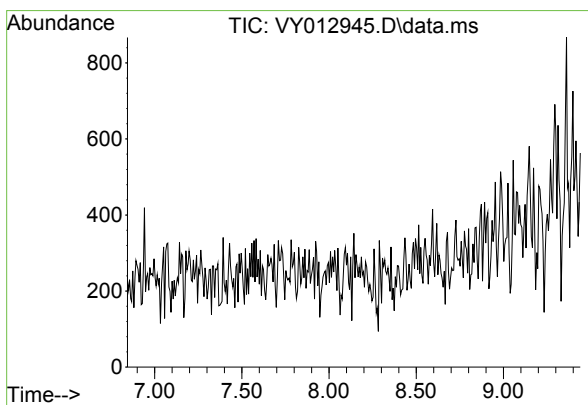
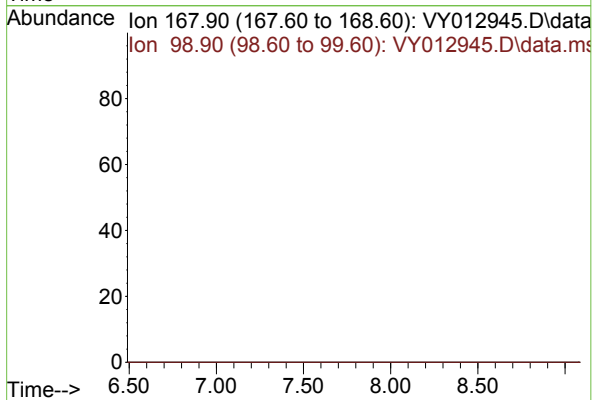


#1
Pentafluorobenzene
Concen: 0.000 ug/l
Expected RT: 7.79 min

Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Instrument :
MSVOA_Y
ClientSampleId :
SU-02-03142023

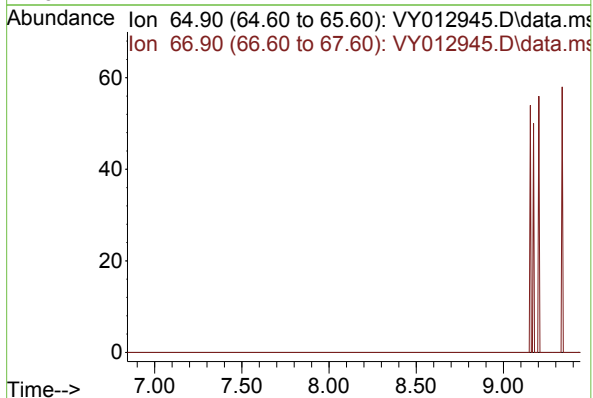
Tgt Ion: 168
Sig Exp Ratio
168 100
99 52.1

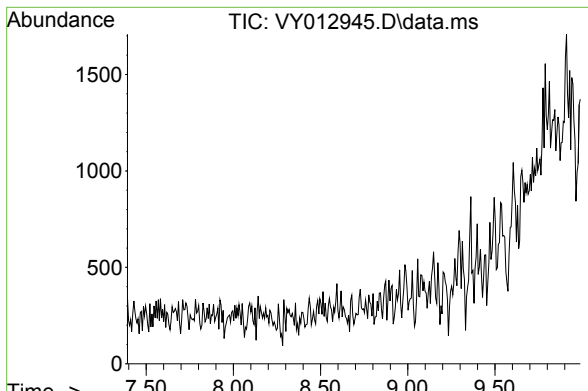


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.14 min

Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion: 65
Sig Exp Ratio
65 100
67 52.0



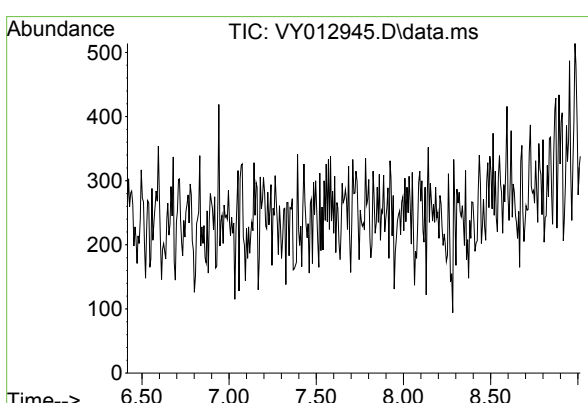
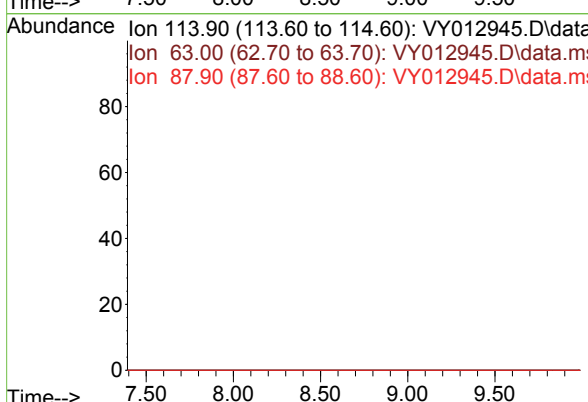


#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.69 min
 Lab File: VY012945.D
 Acq: 14 Mar 2023 16:10

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-02-03142023

Tgt Ion: 114

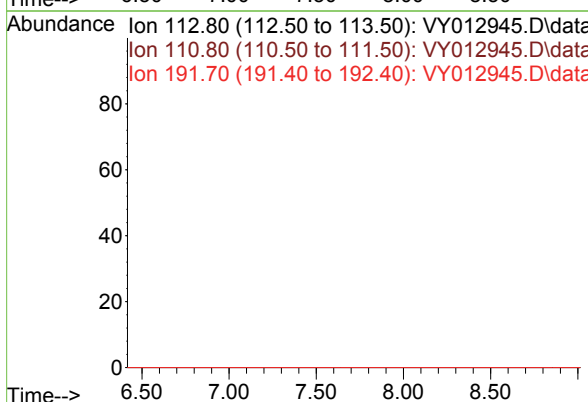
Sig	Exp Ratio
114	100
63	18.7
88	14.3

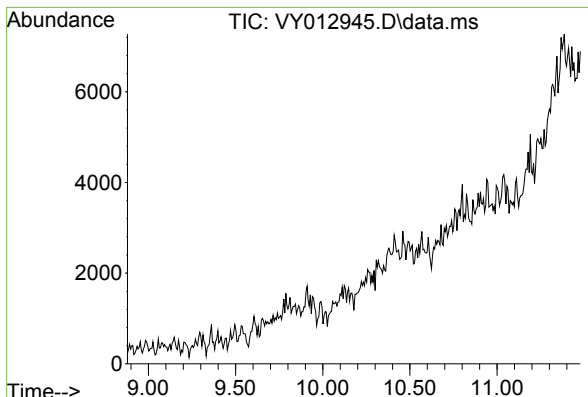


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.72 min
 Lab File: VY012945.D
 Acq: 14 Mar 2023 16:10

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.7
192	21.0

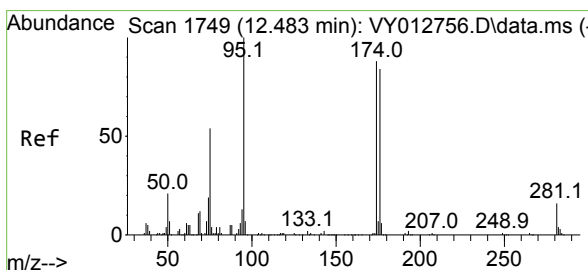
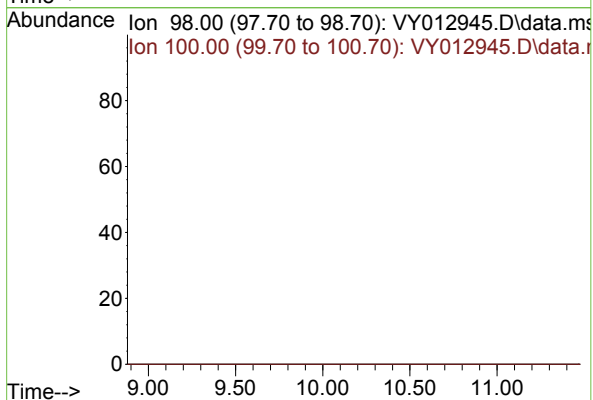




#50
 Toluene-d8
 Concen: 0.000 ug/l
 Expected RT: 10.18 min
 Lab File: VY012945.D
 Acq: 14 Mar 2023 16:10

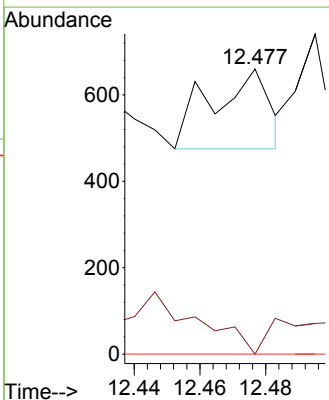
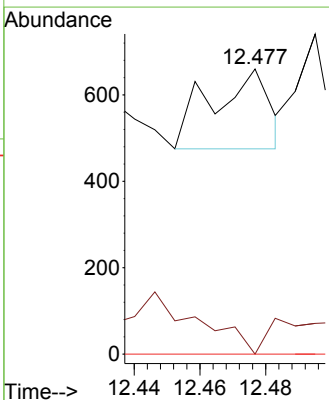
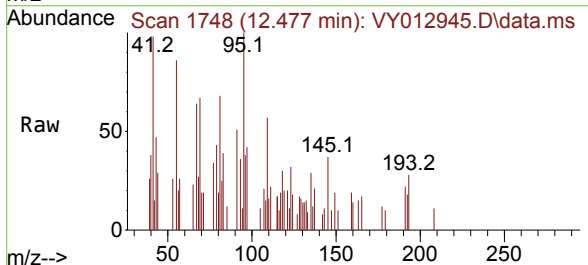
Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-02-03142023

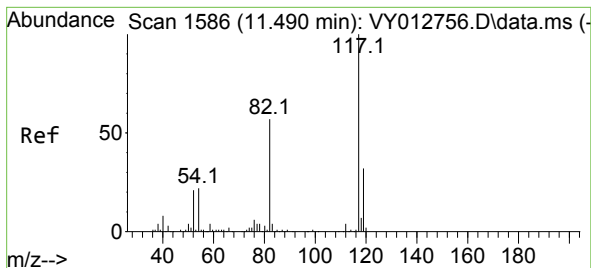
Tgt Ion: 98
 Sig Exp Ratio
 98 100
 100 63.6



#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 RT: 12.477 min Scan# 1748
 Delta R.T. -0.006 min
 Lab File: VY012945.D
 Acq: 14 Mar 2023 16:10

Tgt Ion: 95 Resp: 226
 Ion Ratio Lower Upper
 95 100
 174 47.8 0.0 176.6
 176 0.0 0.0 170.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.495 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Instrument :

MSVOA_Y

ClientSampleId :

SU-02-03142023

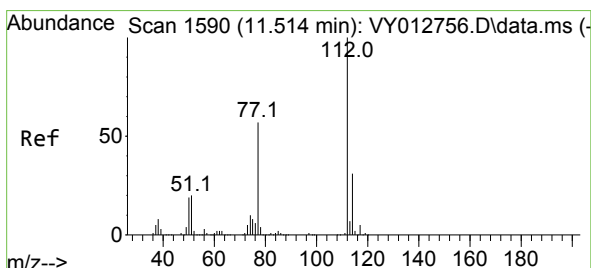
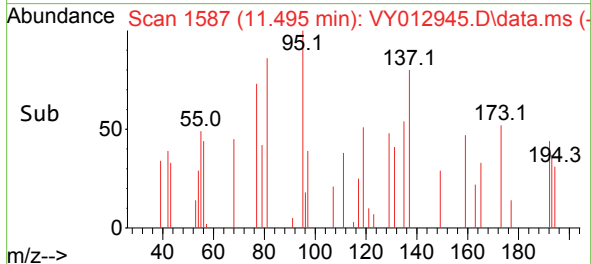
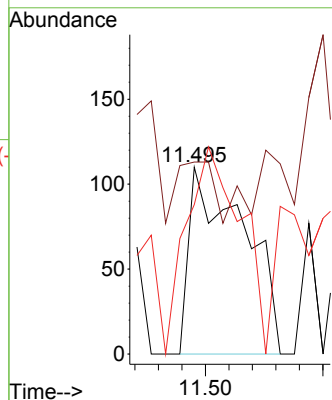
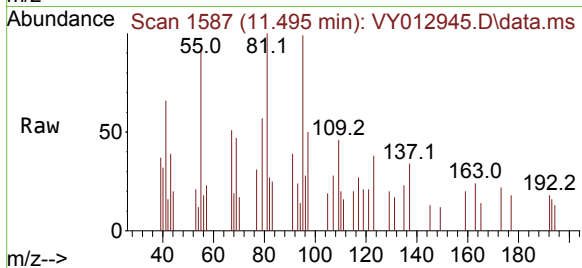
Tgt Ion:117 Resp: 179

Ion Ratio Lower Upper

117 100

82 1.8 45.4 68.0#

119 18.2 25.6 38.4#



#65

Chlorobenzene

Concen: 5.856 ug/l

RT: 11.514 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY012945.D

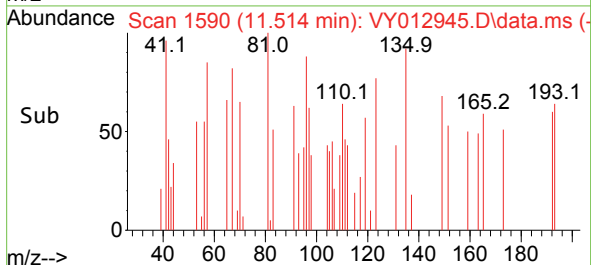
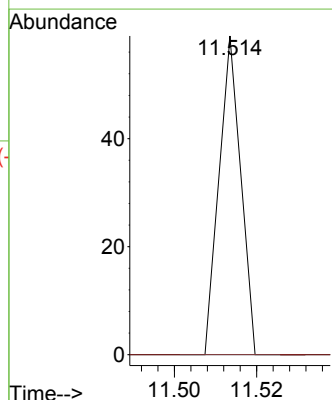
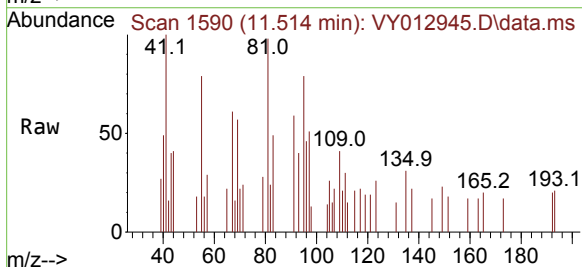
Acq: 14 Mar 2023 16:10

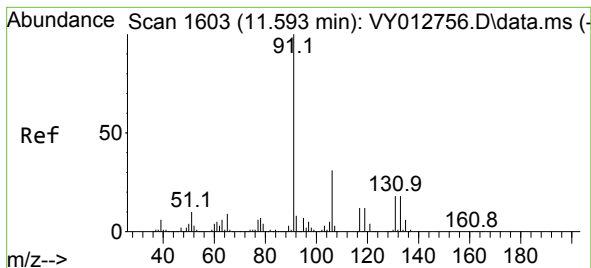
Tgt Ion:112 Resp: 22

Ion Ratio Lower Upper

112 100

114 0.0 24.5 36.7#

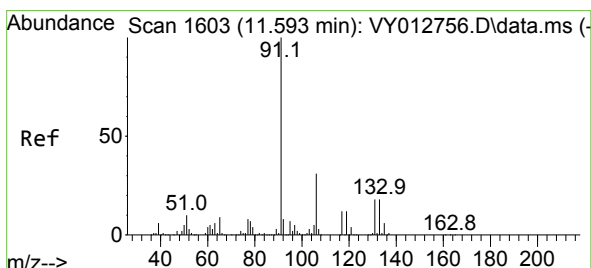
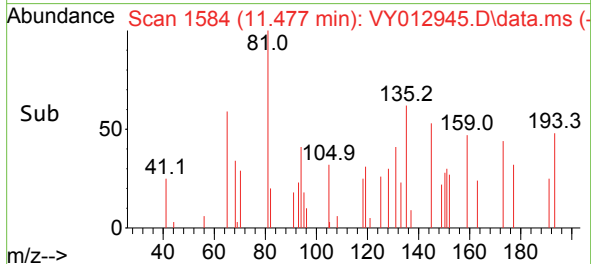
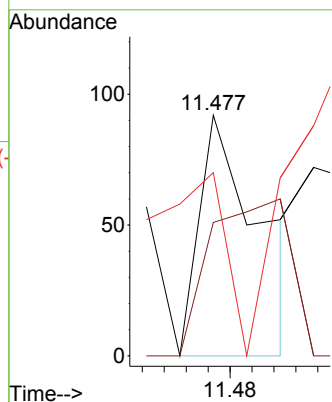
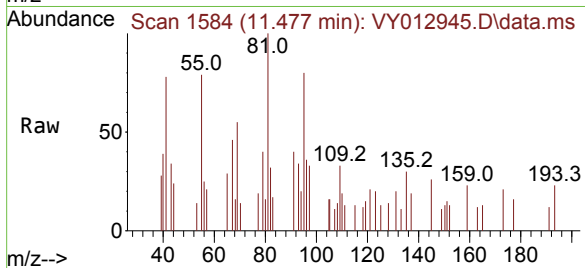




#66
1,1,1,2-Tetrachloroethane
Concen: 51.075 ug/l
RT: 11.477 min Scan# 11
Delta R.T. -0.116 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

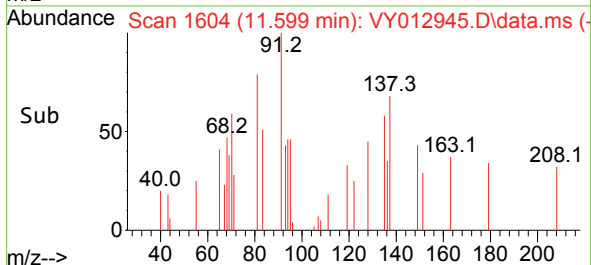
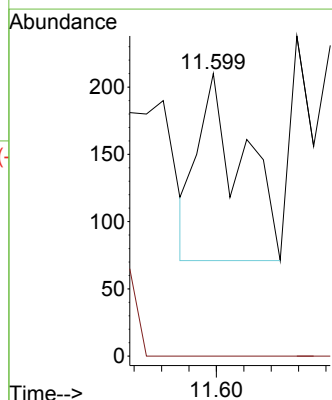
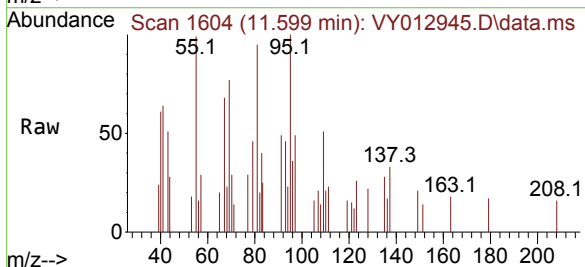
Instrument :
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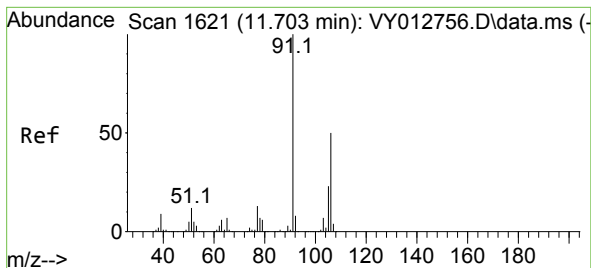
Tgt Ion:	131	Resp:	71
Ion	Ratio	Lower	Upper
131	100		
133	85.9	48.0	144.0
119	93.0	32.6	98.0



#67
Ethyl Benzene
Concen: 23.770 ug/l
RT: 11.599 min Scan# 1604
Delta R.T. 0.006 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion:	91	Resp:	157
Ion	Ratio	Lower	Upper
91	100		
106	0.0	25.1	37.7#

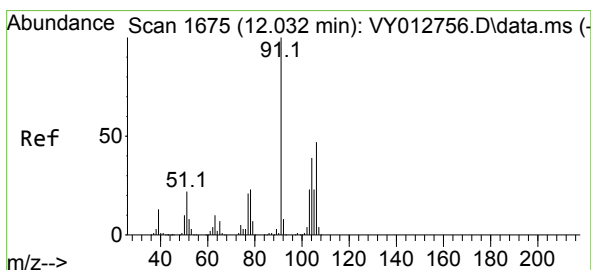
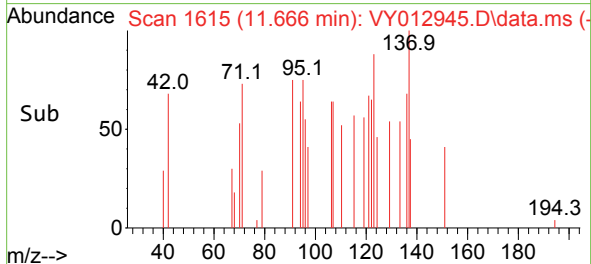
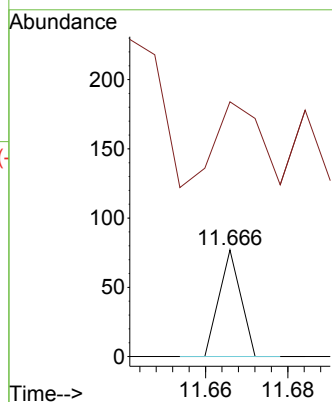
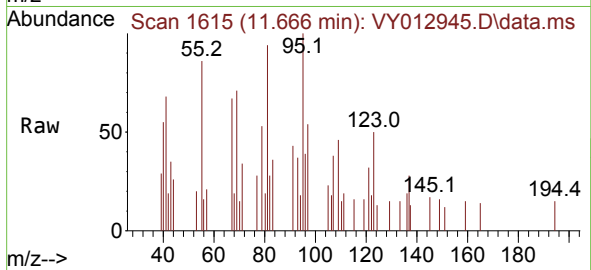




#68
m/p-Xylenes
Concen: 11.020 ug/l
RT: 11.666 min Scan# 11
Delta R.T. -0.037 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

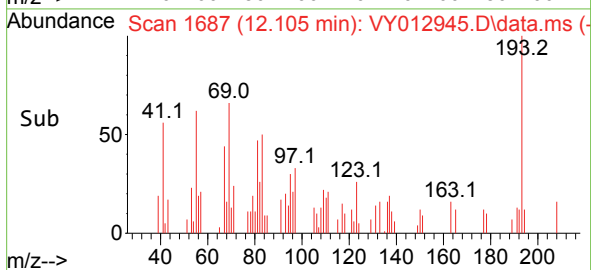
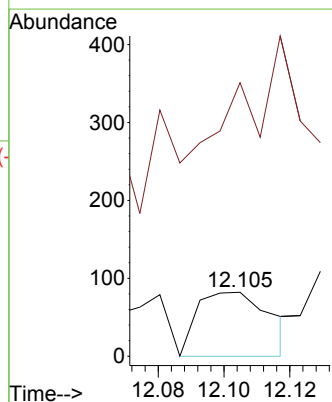
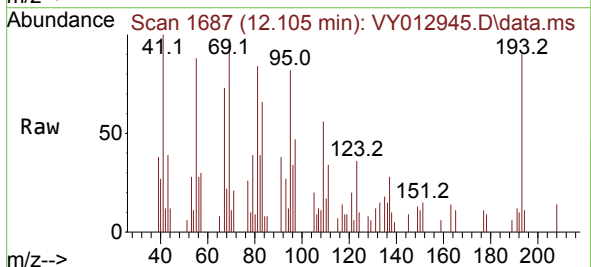
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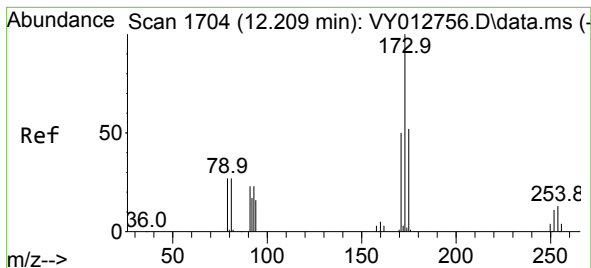
Tgt Ion:106 Resp: 28
Ion Ratio Lower Upper
106 100
91 210.7 159.8 239.8



#69
o-Xylene
Concen: 53.133 ug/l
RT: 12.105 min Scan# 1687
Delta R.T. 0.073 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion:106 Resp: 126
Ion Ratio Lower Upper
106 100
91 319.0 107.2 321.6





#71

Bromoform

Concen: 95.988 ug/l

RT: 12.209 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Instrument :

MSVOA_Y

ClientSampleId :

SU-02-03142023

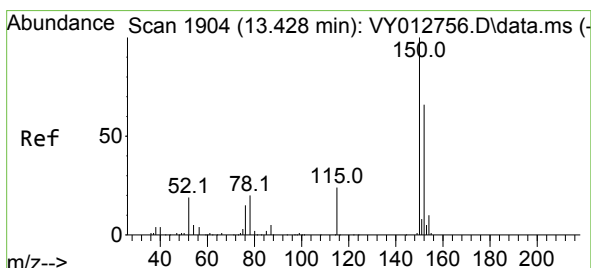
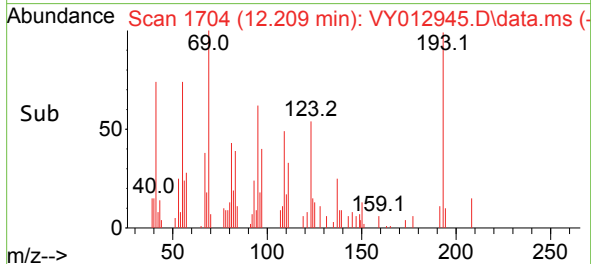
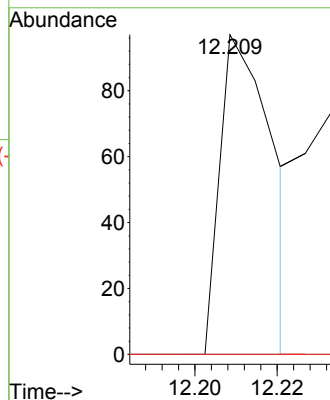
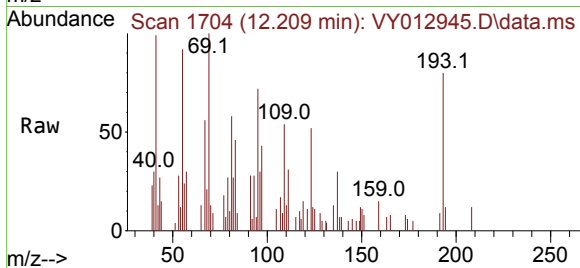
Tgt Ion:173 Resp: 87

Ion Ratio Lower Upper

173 100

175 0.0 25.0 75.0#

254 0.0 0.2 0.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.440 min Scan# 1906

Delta R.T. 0.012 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

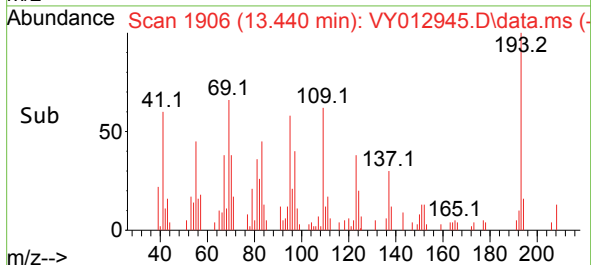
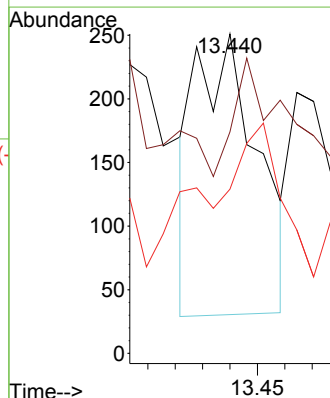
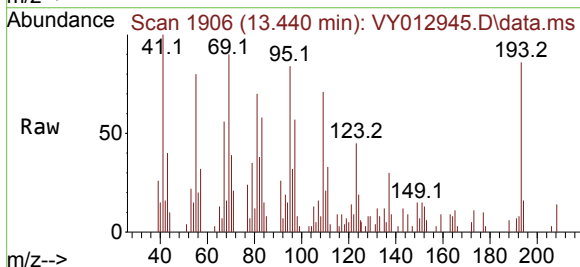
Tgt Ion:152 Resp: 344

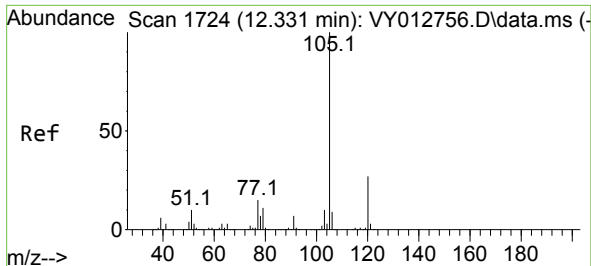
Ion Ratio Lower Upper

152 100

115 34.0 27.1 81.3

150 84.3 0.0 347.8

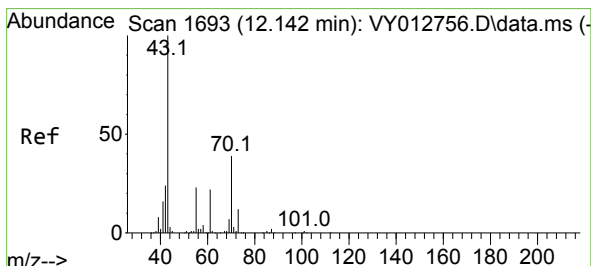
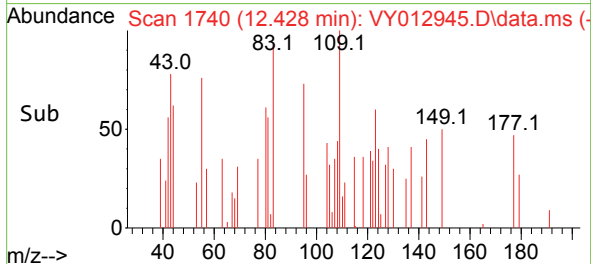
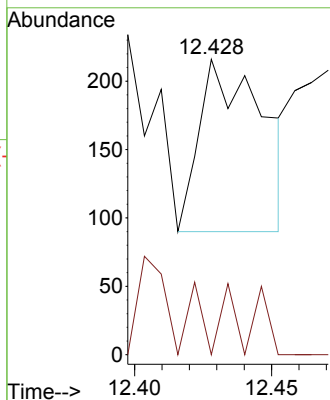
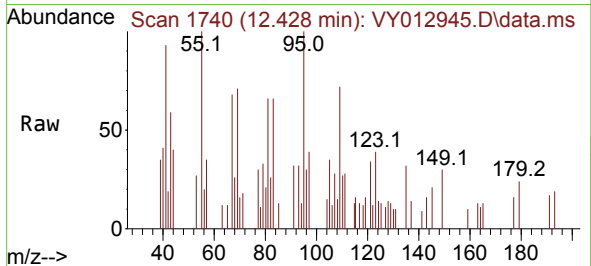




#73
Isopropylbenzene
Concen: 8.286 ug/l
RT: 12.428 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

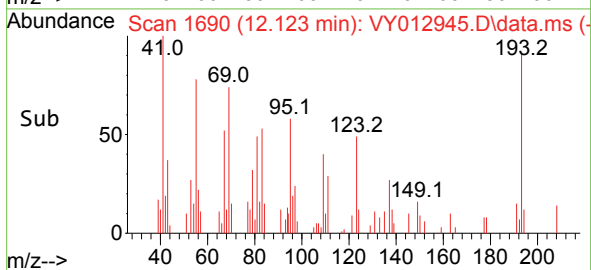
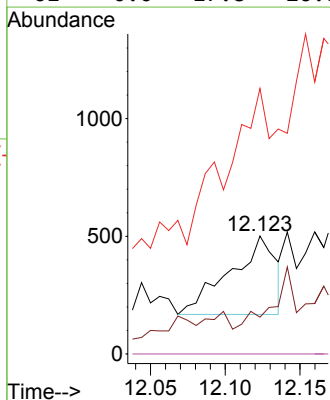
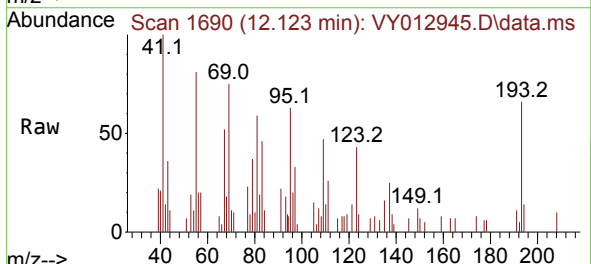
Instrument :
MSVOA_Y
ClientSampleId :
SU-02-03142023

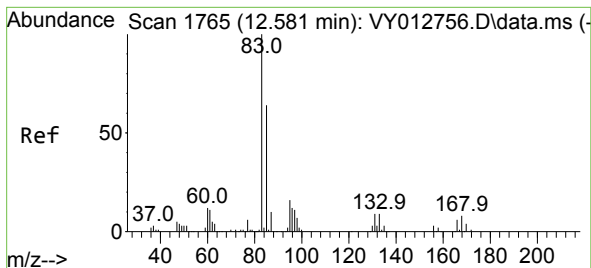
Tgt Ion:105 Resp: 202
Ion Ratio Lower Upper
105 100
120 18.3 13.4 40.2



#74
N-ethyl acetate
Concen: 92.169 ug/l
RT: 12.123 min Scan# 1690
Delta R.T. -0.019 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion: 43 Resp: 707
Ion Ratio Lower Upper
43 100
70 0.0 31.6 47.4#
55 257.6 18.8 28.2#
61 0.0 17.8 26.8#

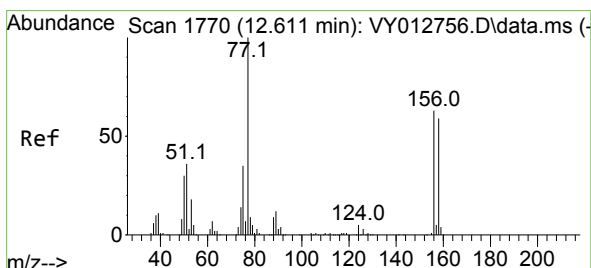
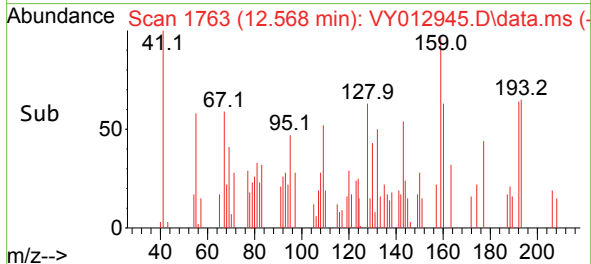
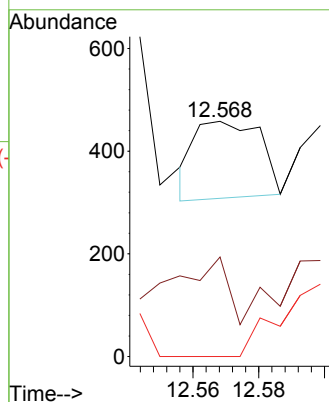
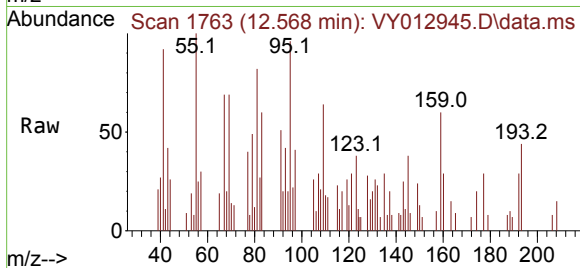




#75
1,1,2,2-Tetrachloroethane
Concen: 37.771 ug/l
RT: 12.568 min Scan# 1763
Delta R.T. -0.013 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

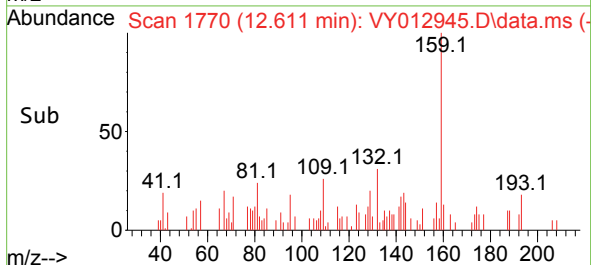
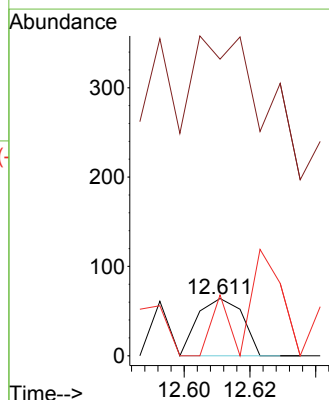
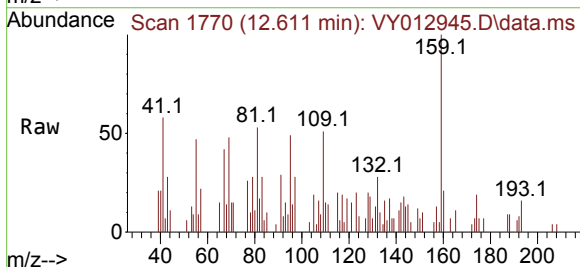
Instrument :
MSVOA_Y
ClientSampleId :
SU-02-03142023

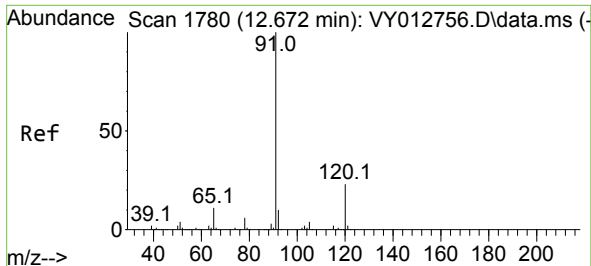
Tgt Ion: 83 Resp: 207
Ion Ratio Lower Upper
83 100
131 69.6 5.1 15.2#
85 0.0 31.8 95.3#



#77
Bromobenzene
Concen: 10.300 ug/l
RT: 12.611 min Scan# 1770
Delta R.T. -0.000 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion:156 Resp: 61
Ion Ratio Lower Upper
156 100
77 411.5 94.0 282.1#
158 193.4 48.1 144.4#

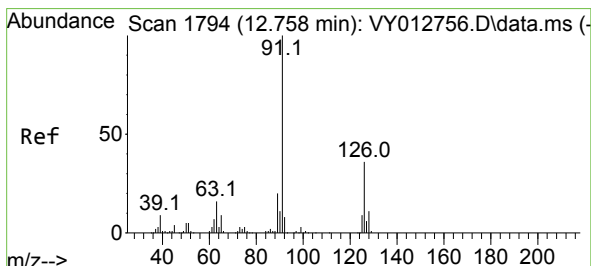
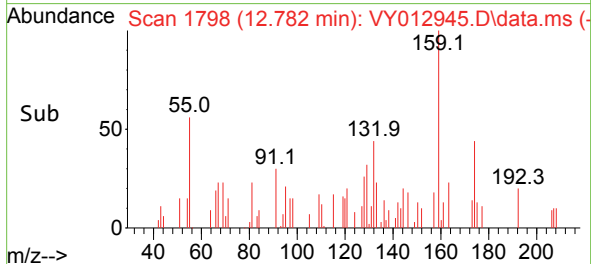
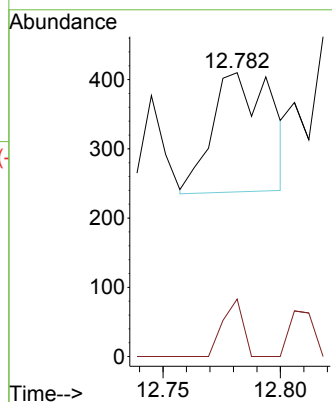
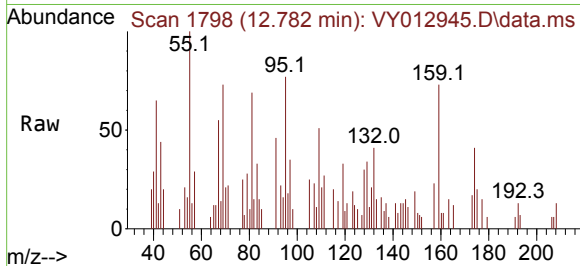




#78
n-propylbenzene
Concen: 9.914 ug/l
RT: 12.782 min Scan# 11
Delta R.T. 0.109 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

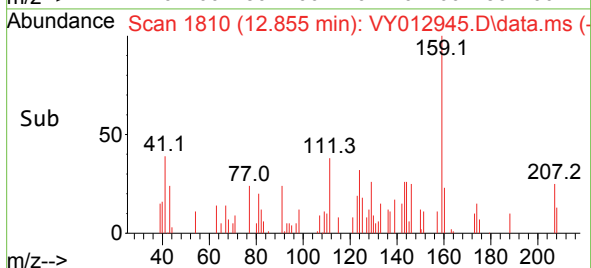
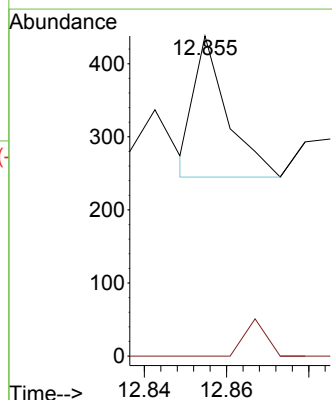
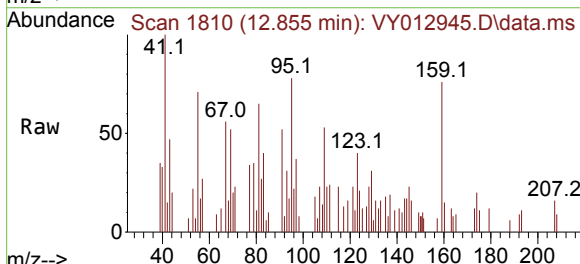
Instrument :
MSVOA_Y
ClientSampleId :
SU-02-03142023

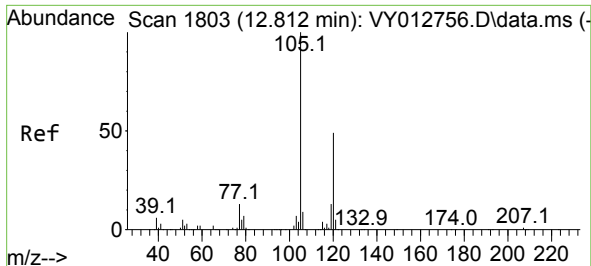
Tgt Ion: 91 Resp: 298
Ion Ratio Lower Upper
91 100
120 16.4 11.6 34.8



#79
2-Chlorotoluene
Concen: 6.465 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. 0.097 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion: 91 Resp: 108
Ion Ratio Lower Upper
91 100
126 17.6 17.4 52.2

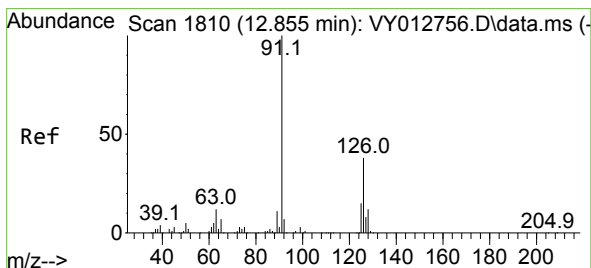
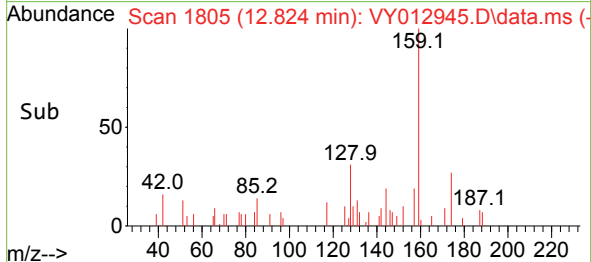
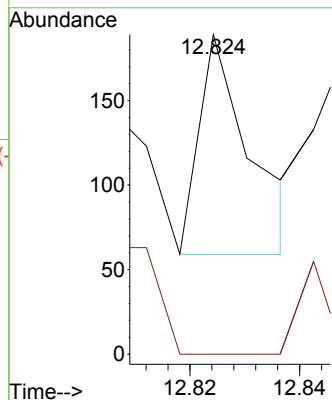
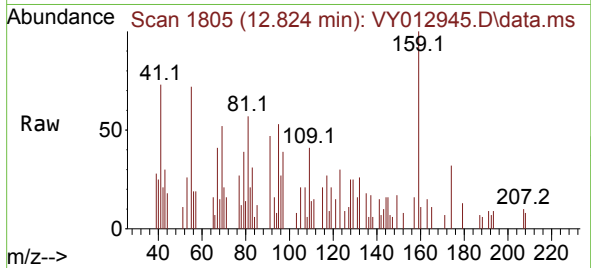




#80
1,3,5-Trimethylbenzene
Concen: 4.175 ug/l
RT: 12.824 min Scan# 1805
Delta R.T. 0.012 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

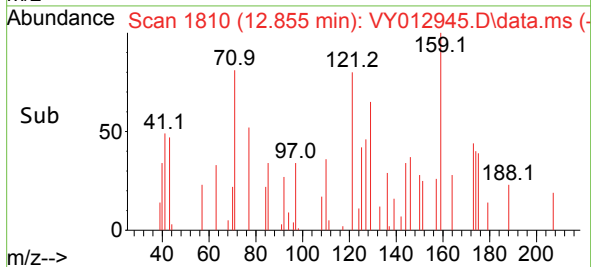
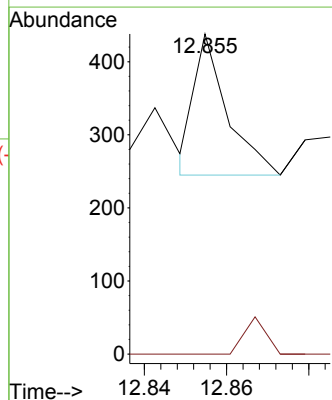
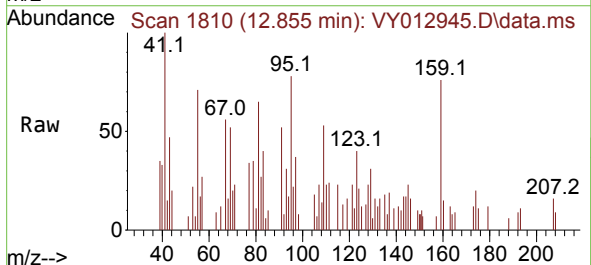
Instrument :
MSVOA_Y
ClientSampleId :
SU-02-03142023

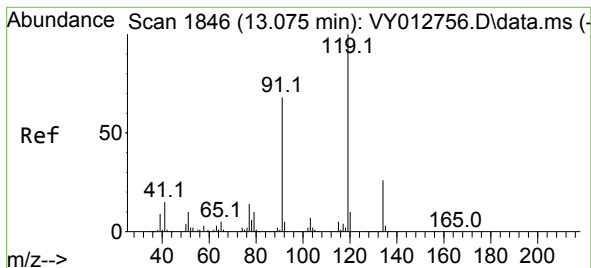
Tgt Ion:105 Resp: 84
Ion Ratio Lower Upper
105 100
120 56.0 24.8 74.4



#82
4-Chlorotoluene
Concen: 6.245 ug/l
RT: 12.855 min Scan# 1810
Delta R.T. -0.000 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion: 91 Resp: 108
Ion Ratio Lower Upper
91 100
126 17.6 17.7 53.1#





#83

tert-Butylbenzene

Concen: 7.544 ug/l

RT: 13.068 min Scan# 11

Delta R.T. -0.007 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Instrument :

MSVOA_Y

ClientSampleId :

SU-02-03142023

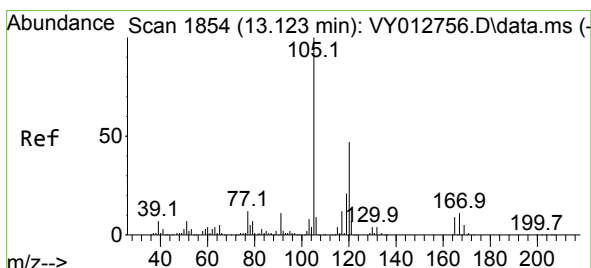
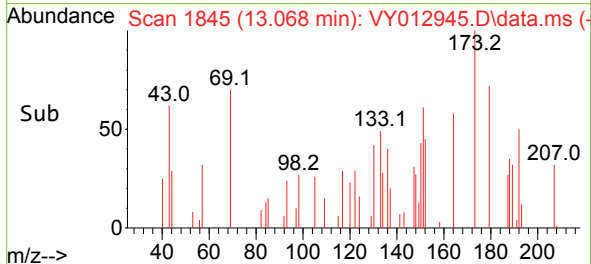
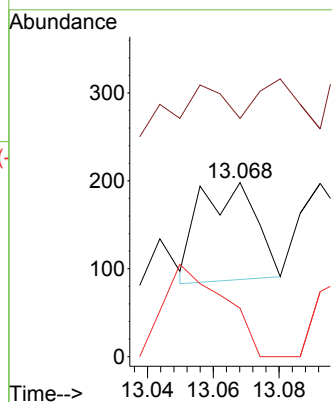
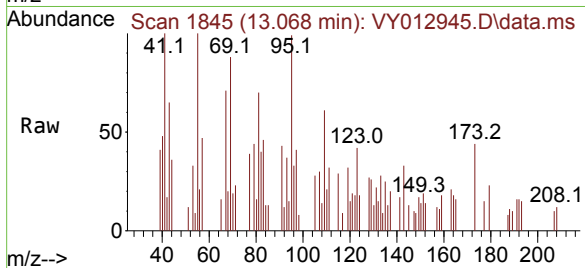
Tgt Ion:119 Resp: 131

Ion Ratio Lower Upper

119 100

91 35.9 32.8 98.3

134 0.0 13.6 40.8#



#84

1,2,4-Trimethylbenzene

Concen: 9.607 ug/l

RT: 13.147 min Scan# 1858

Delta R.T. 0.024 min

Lab File: VY012945.D

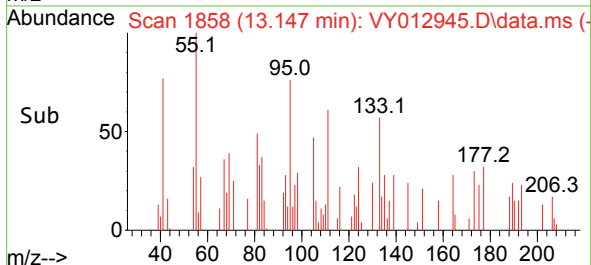
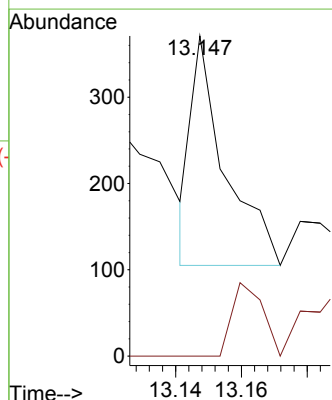
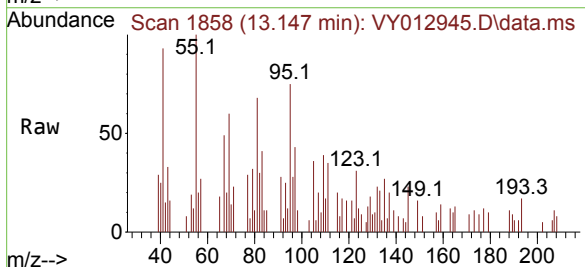
Acq: 14 Mar 2023 16:10

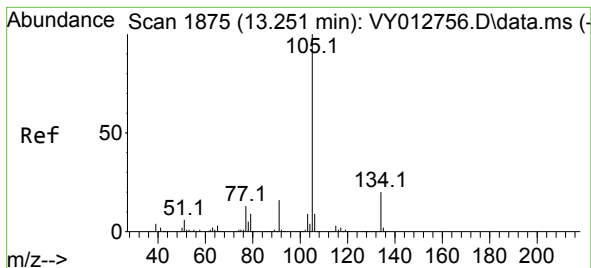
Tgt Ion:105 Resp: 189

Ion Ratio Lower Upper

105 100

120 29.1 23.0 69.0





#85

sec-Butylbenzene

Concen: 7.134 ug/l

RT: 13.147 min Scan# 1875

Delta R.T. -0.104 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Instrument :

MSVOA_Y

ClientSampleId :

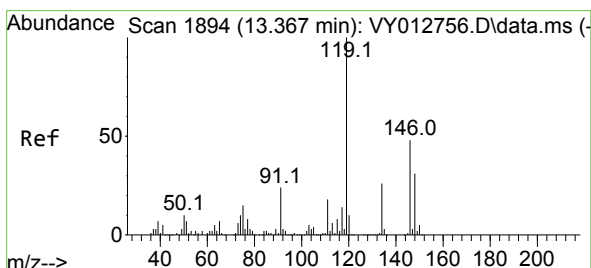
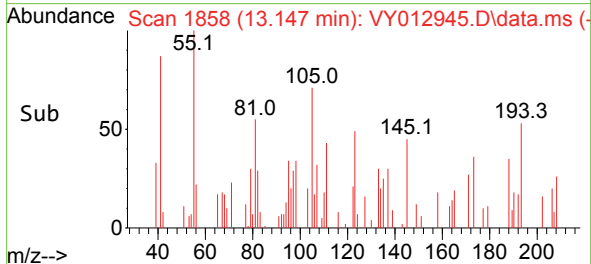
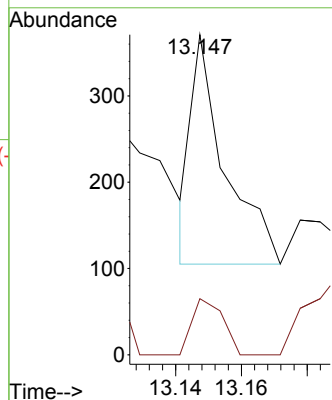
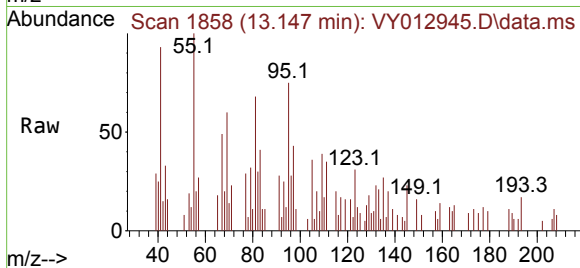
SU-02-03142023

Tgt Ion:105 Resp: 189

Ion Ratio Lower Upper

105 100

134 22.2 10.4 31.1



#86

p-Isopropyltoluene

Concen: 3.880 ug/l

RT: 13.361 min Scan# 1893

Delta R.T. -0.006 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

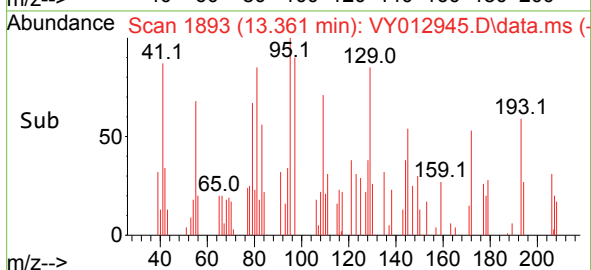
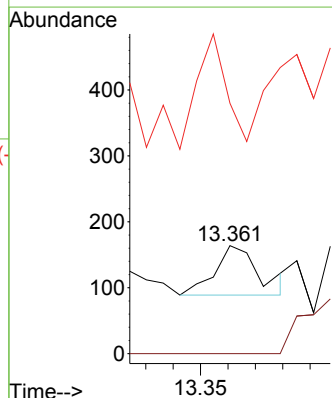
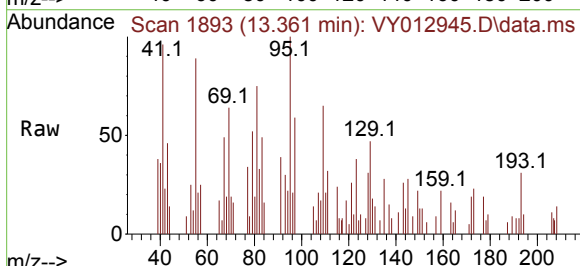
Tgt Ion:119 Resp: 84

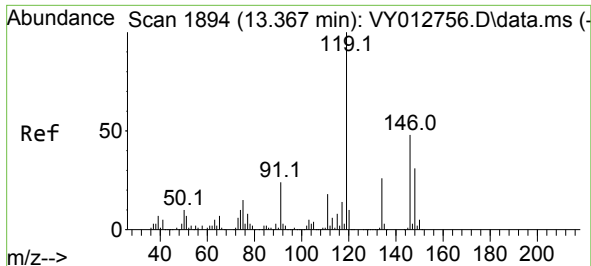
Ion Ratio Lower Upper

119 100

134 0.0 13.2 39.6#

91 157.1 11.8 35.3#

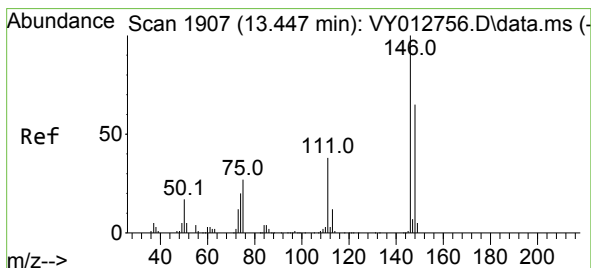
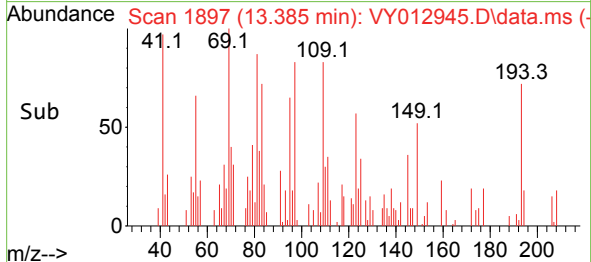
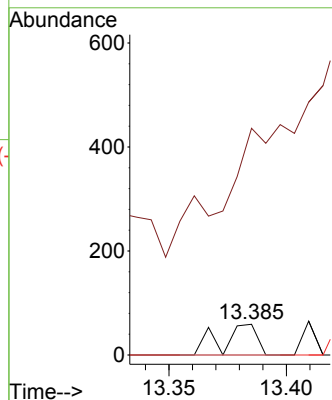
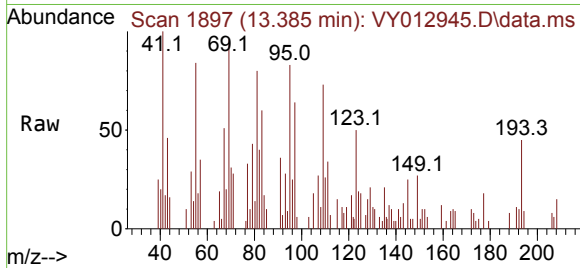




#87
1,3-Dichlorobenzene
Concen: 5.340 ug/l
RT: 13.385 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

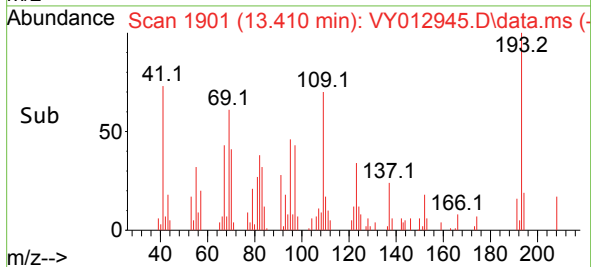
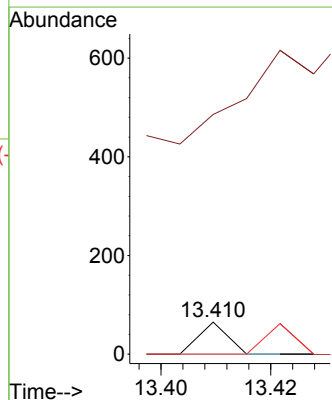
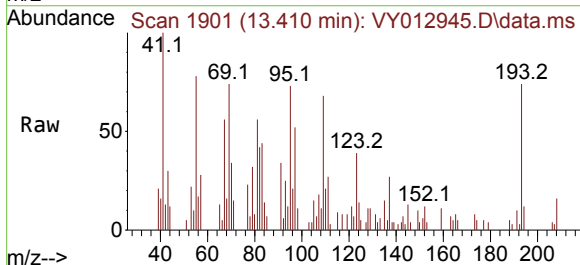
Instrument :
MSVOA_Y
ClientSampleId :
SU-02-03142023

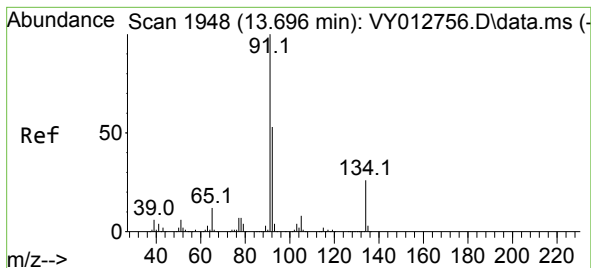
Tgt Ion:146 Resp: 61
Ion Ratio Lower Upper
146 100
111 0.0 19.1 57.5#
148 0.0 31.8 95.3#



#88
1,4-Dichlorobenzene
Concen: 2.059 ug/l
RT: 13.410 min Scan# 1901
Delta R.T. -0.037 min
Lab File: VY012945.D
Acq: 14 Mar 2023 16:10

Tgt Ion:146 Resp: 24
Ion Ratio Lower Upper
146 100
111 0.0 18.6 55.8#
148 0.0 31.5 94.5#





#89

n-Butylbenzene

Concen: 6.802 ug/l

RT: 13.714 min Scan# 1948

Delta R.T. 0.018 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Instrument :

MSVOA_Y

ClientSampleId :

SU-02-03142023

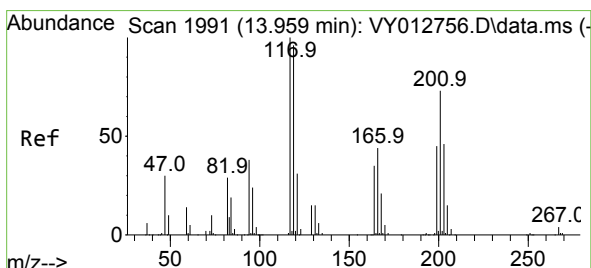
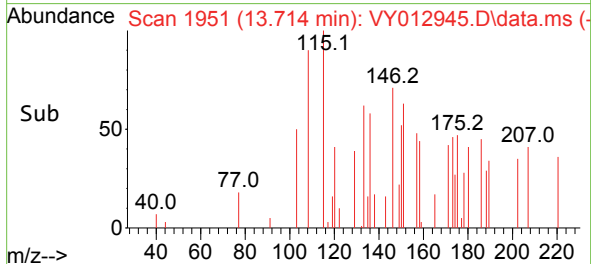
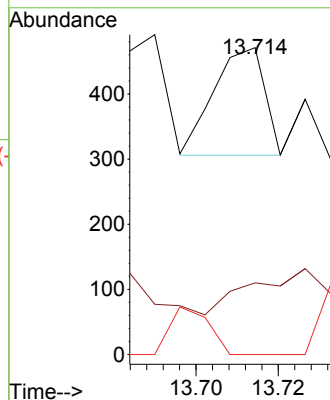
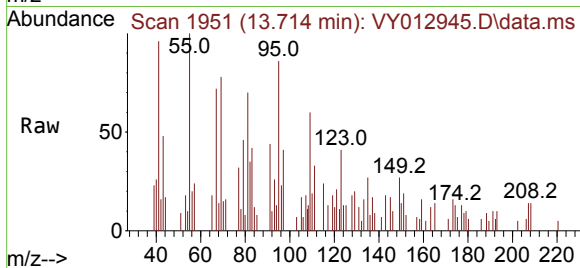
Tgt Ion: 91 Resp: 141

Ion Ratio Lower Upper

91 100

92 73.8 26.4 79.0

134 0.0 13.0 38.9#



#90

Hexachloroethane

Concen: 47.454 ug/l

RT: 13.983 min Scan# 1995

Delta R.T. 0.024 min

Lab File: VY012945.D

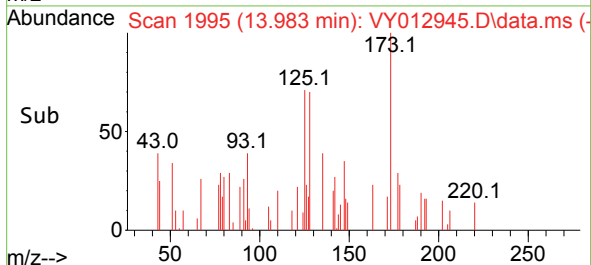
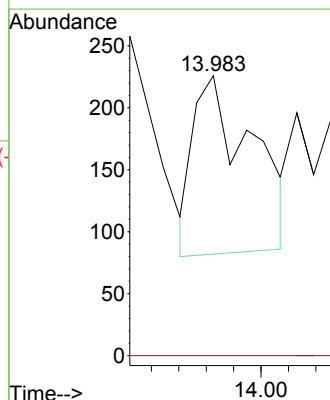
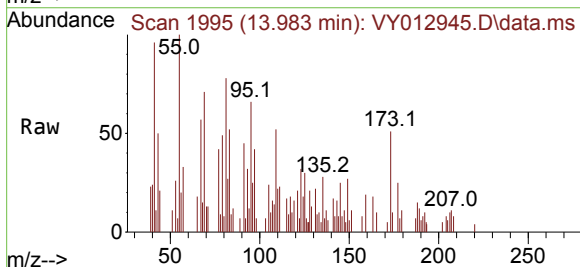
Acq: 14 Mar 2023 16:10

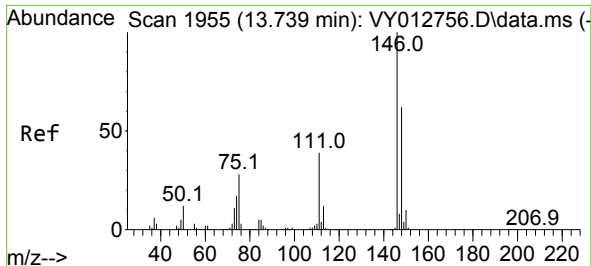
Tgt Ion: 117 Resp: 214

Ion Ratio Lower Upper

117 100

201 0.0 39.4 118.1#





#91

1,2-Dichlorobenzene

Concen: 22.662 ug/l

RT: 13.763 min Scan# 1959

Delta R.T. 0.024 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Instrument :

MSVOA_Y

ClientSampleId :

SU-02-03142023

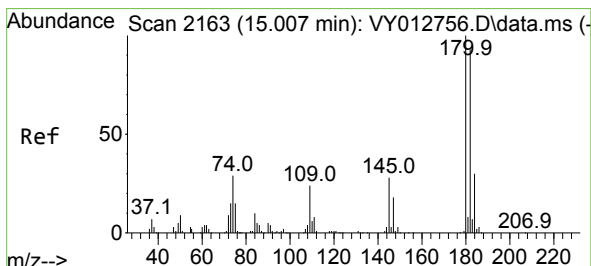
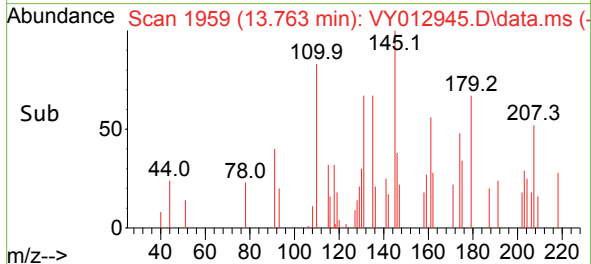
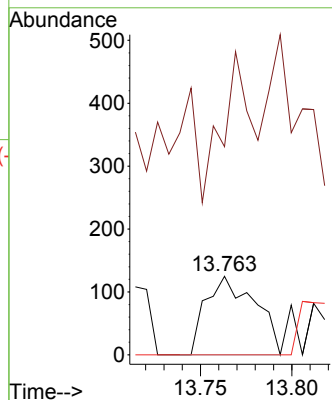
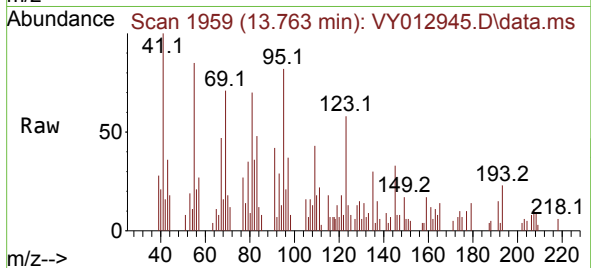
Tgt Ion:146 Resp: 234

Ion Ratio Lower Upper

146 100

111 109.0 19.7 59.1#

148 0.0 31.9 95.5#



#93

1,2,4-Trichlorobenzene

Concen: 3.460 ug/l

RT: 15.001 min Scan# 2162

Delta R.T. -0.006 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

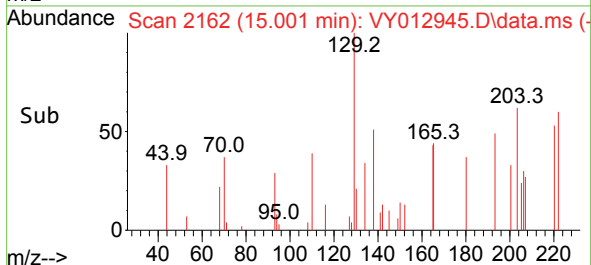
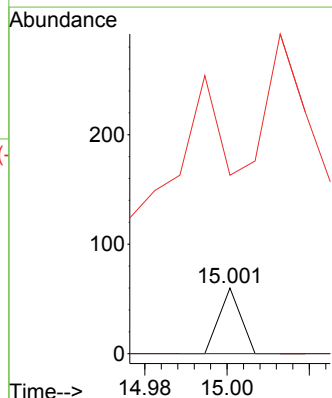
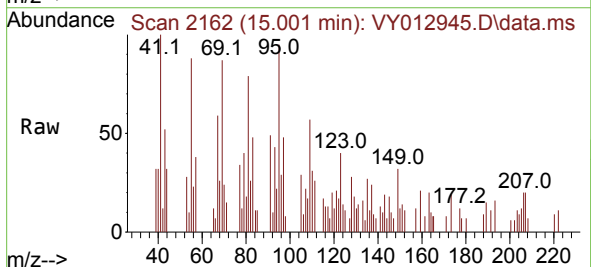
Tgt Ion:180 Resp: 22

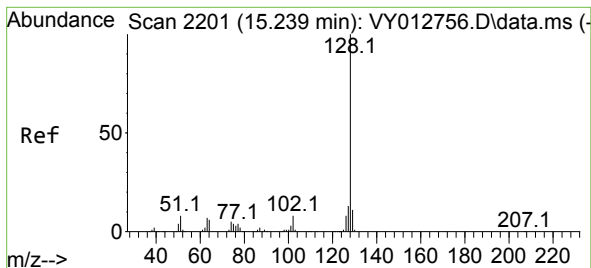
Ion Ratio Lower Upper

180 100

182 0.0 46.7 140.1#

145 909.1 14.6 43.8#





#95

Naphthalene

Concen: 5.573 ug/l

RT: 15.251 min Scan# 2204

Delta R.T. 0.012 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Instrument :

MSVOA_Y

ClientSampleId :

SU-02-03142023

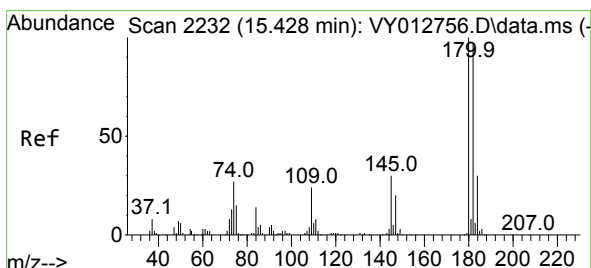
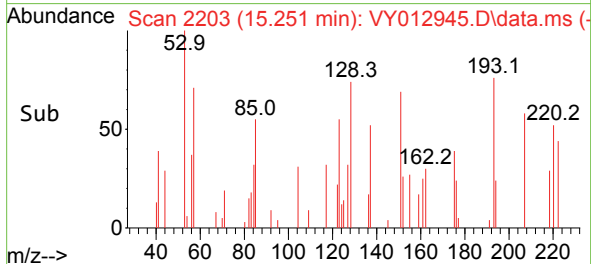
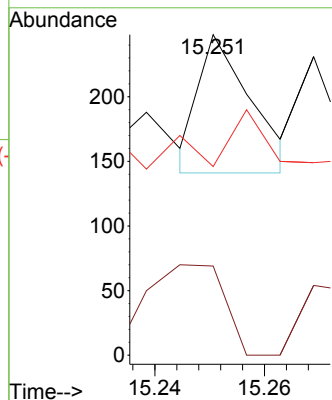
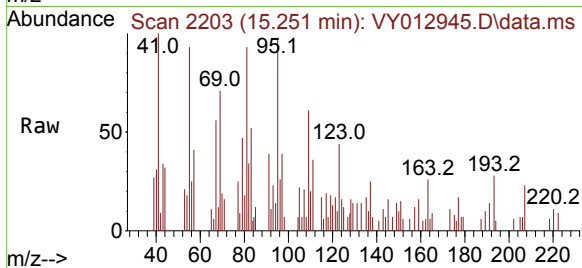
Tgt Ion:128 Resp: 71

Ion Ratio Lower Upper

128 100

127 97.2 10.3 15.5#

129 0.0 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 4.068 ug/l

RT: 15.257 min Scan# 2204

Delta R.T. -0.171 min

Lab File: VY012945.D

Acq: 14 Mar 2023 16:10

Tgt Ion:180 Resp: 23

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.3#

145 2987.0 15.3 45.8#

