

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041124\
 Data File : VY017913.D
 Acq On : 11 Apr 2024 16:01
 Operator : SY/MD
 Sample : P2072-03
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-02-041024

Quant Time: Apr 12 05:02:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032924S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 05:58:13 2024
 Response via : Initial Calibration

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

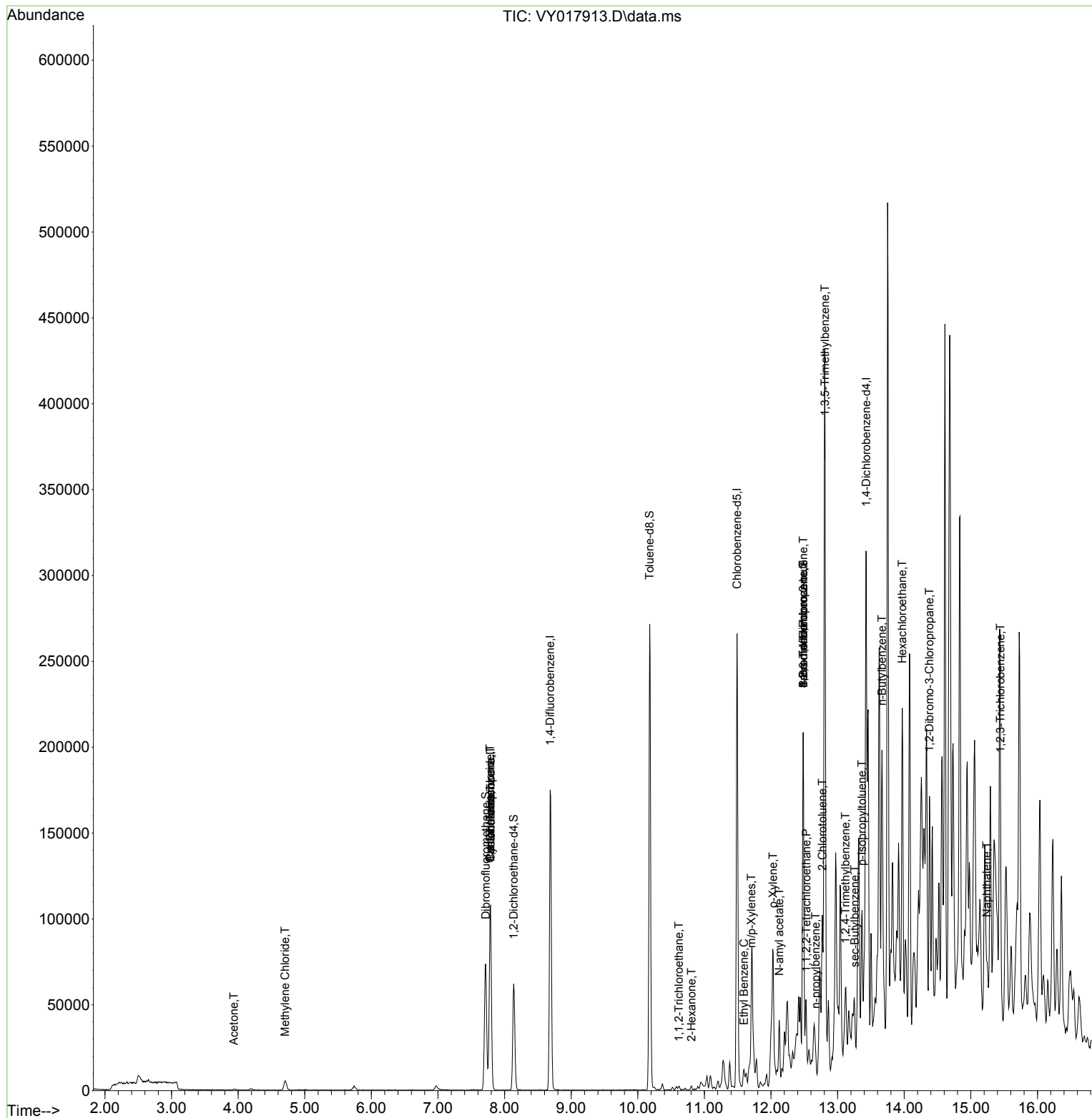
Internal Standards						
1) Pentafluorobenzene	7.789	168	86045	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	153133	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	140866	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	59041	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	48004	64.471	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 128.940%	
35) Dibromofluoromethane	7.716	113	51393	58.080	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 116.160%	
50) Toluene-d8	10.179	98	177706	53.763	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 107.520%	
62) 4-Bromofluorobenzene	12.483	95	53259	52.959	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 105.920%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.911	59	163	Below Cal	#	88
16) Acetone	3.936	43	801	5.204	ug/l	94
20) Methylene Chloride	4.704	84	4224	1.926	ug/l #	82
31) Cyclohexane	7.789	56	1911	1.457	ug/l #	35
36) 1,1-Dichloropropene	7.789	75	6533	5.060	ug/l #	48
38) Carbon Tetrachloride	7.783	117	8151	6.081	ug/l #	15
51) 4-Methyl-2-Pentanone	10.069	43	164	Below Cal	#	31
55) 1,1,2-Trichloroethane	10.618	97	935	1.336	ug/l #	16
59) 2-Hexanone	10.807	43	752	1.775	ug/l #	19
67) Ethyl Benzene	11.593	91	6673	1.343	ug/l	96
68) m/p-Xylenes	11.703	106	3559	1.889	ug/l	100
69) o-Xylene	12.032	106	18018	11.563	ug/l	98
70) Styrene	12.032	104	1250	Below Cal	#	1
71) Bromoform	12.483	173	585	1.076	ug/l #	1
74) N-amyl acetate	12.124	43	6725	9.599	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.532	83	1356	1.895	ug/l #	69
76) 1,2,3-Trichloropropane	12.483	75	29187	54.249	ug/l #	100
78) n-propylbenzene	12.672	91	8173	1.619	ug/l	99
79) 2-Chlorotoluene	12.770	91	5523	1.997	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.812	105	54626	16.917	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.483	75	29187	106.069	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.117	105	18389	5.718	ug/l	99
85) sec-Butylbenzene	13.258	105	9612	2.181	ug/l	87
86) p-Isopropyltoluene	13.367	119	13685	3.716	ug/l	98
89) n-Butylbenzene	13.666	91	8057	2.378	ug/l #	1
90) Hexachloroethane	13.971	117	7821	10.679	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.379	75	379	3.919	ug/l #	1
95) Naphthalene	15.239	128	7721	7.022	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.446	180	783	1.044	ug/l #	1

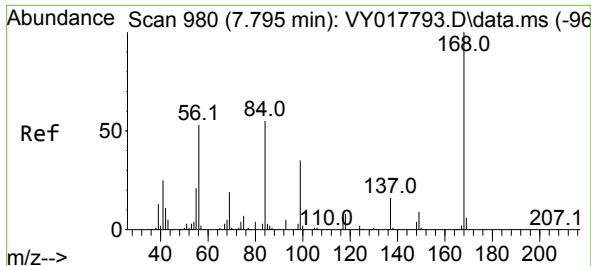
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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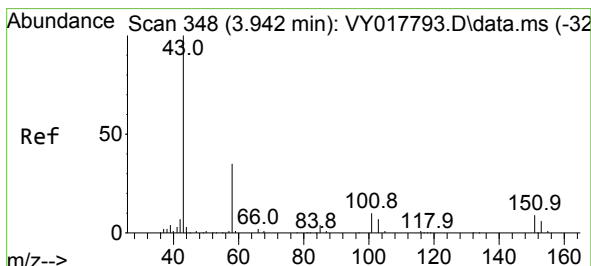
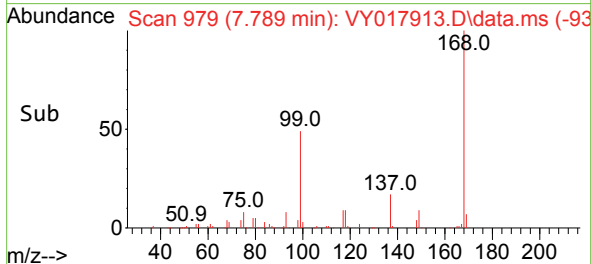
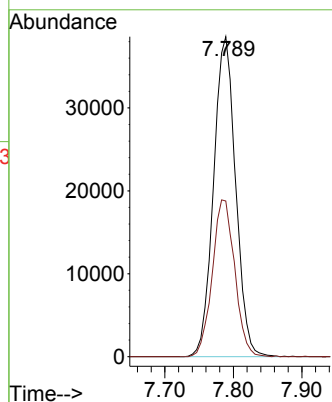
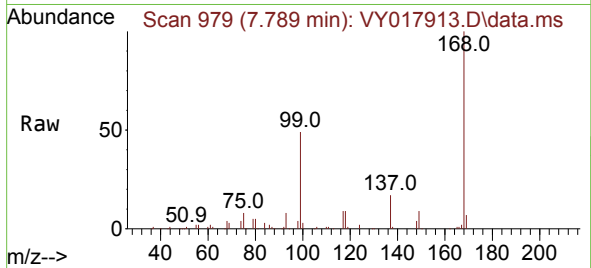




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

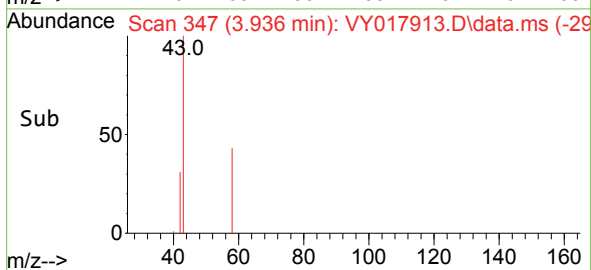
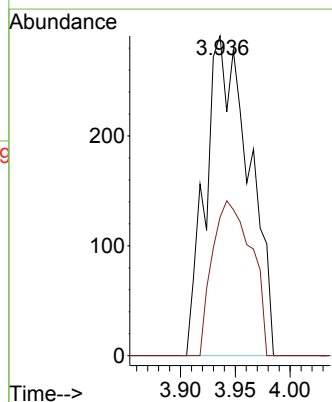
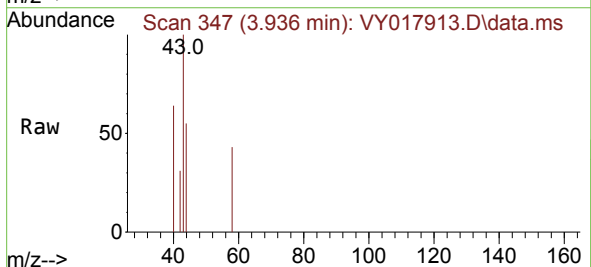
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

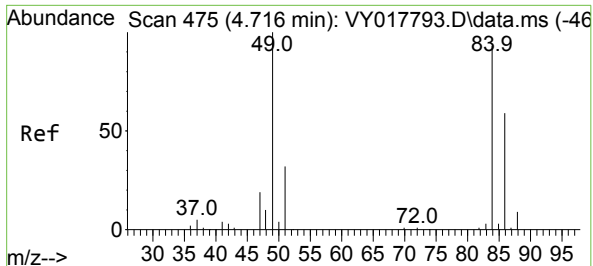
Tgt Ion:168 Resp: 86045
Ion Ratio Lower Upper
168 100
99 48.7 39.1 58.7



#16
Acetone
Concen: 5.204 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

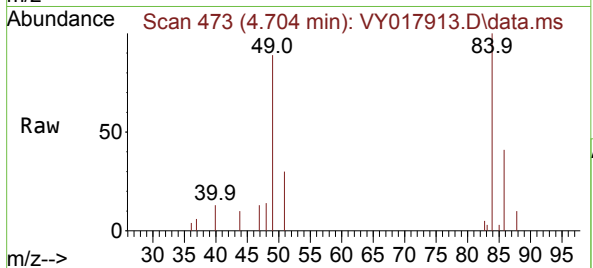
Tgt Ion: 43 Resp: 801
Ion Ratio Lower Upper
43 100
58 43.3 31.7 47.5



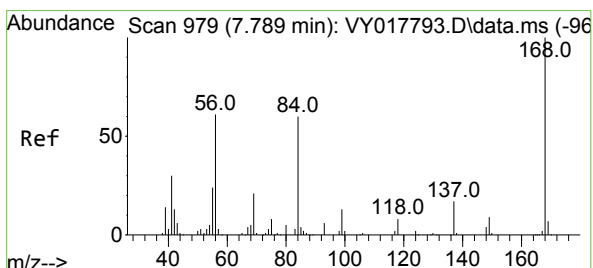
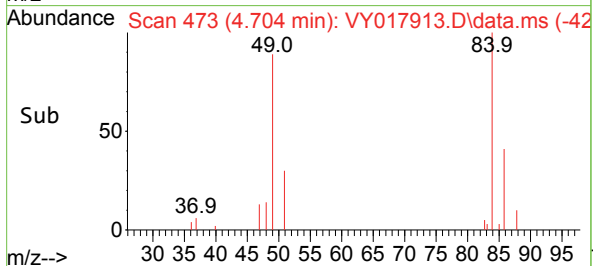
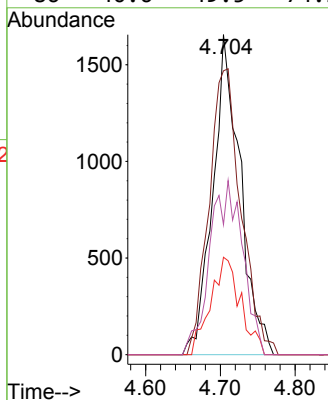


#20
Methylene Chloride
Concen: 1.926 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

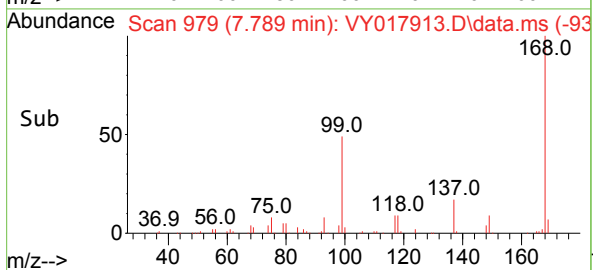
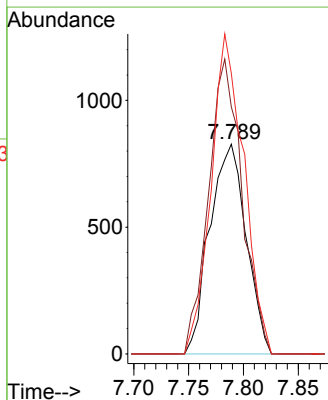
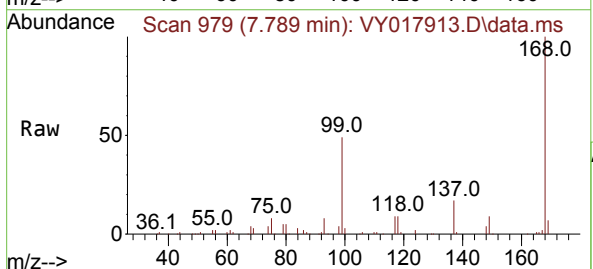


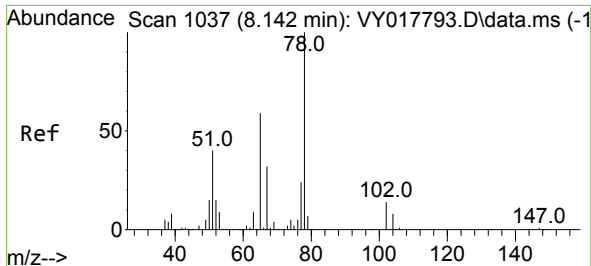
Tgt Ion:	84	Resp:	4224
Ion	Ratio	Lower	Upper
84	100		
49	88.7	84.4	126.6
51	30.4	26.0	39.0
86	40.6	49.5	74.3#



#31
Cyclohexane
Concen: 1.457 ug/l
RT: 7.789 min Scan# 979
Delta R.T. 0.000 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion:	56	Resp:	1911
Ion	Ratio	Lower	Upper
56	100		
69	117.8	28.7	43.1#
84	133.9	77.7	116.5#

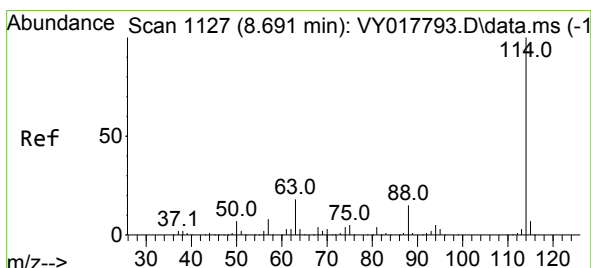
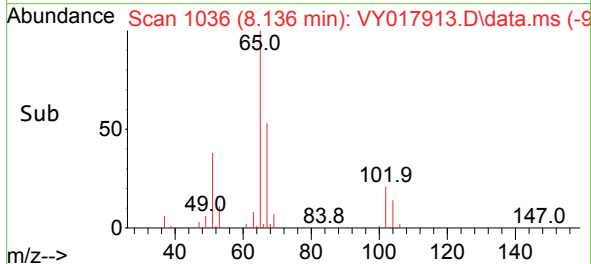
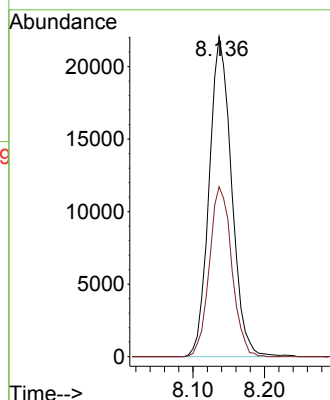
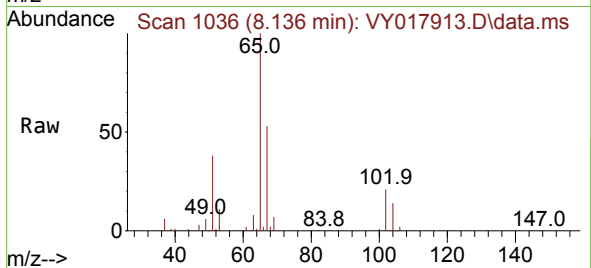




#33
 1,2-Dichloroethane-d4
 Concen: 64.471 ug/l
 RT: 8.136 min Scan# 1036
 Delta R.T. -0.006 min
 Lab File: VY017913.D
 Acq: 11 Apr 2024 16:01

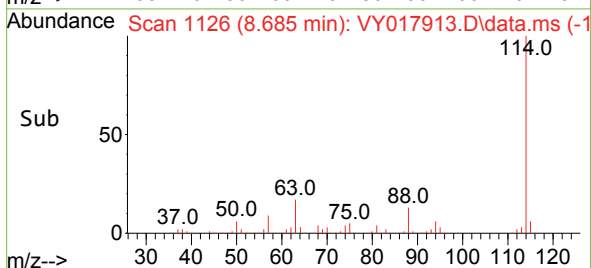
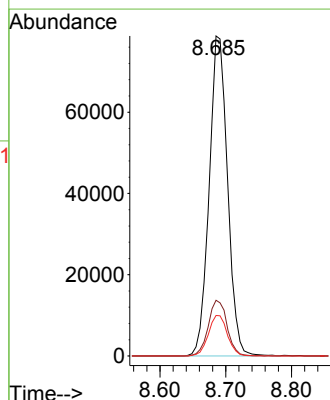
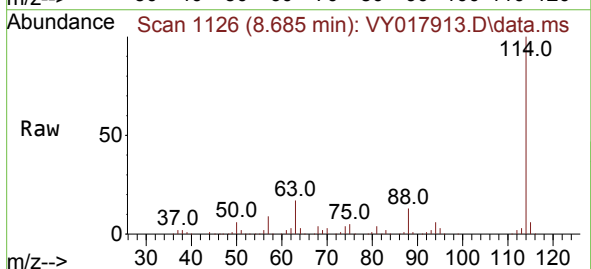
Instrument :
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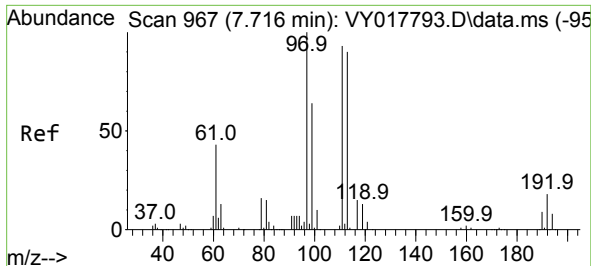
Tgt Ion: 65 Resp: 48004
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. -0.006 min
 Lab File: VY017913.D
 Acq: 11 Apr 2024 16:01

Tgt Ion: 114 Resp: 153133
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 35.0
 88 12.7 0.0 27.2

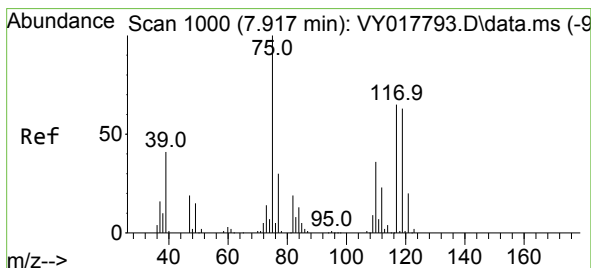
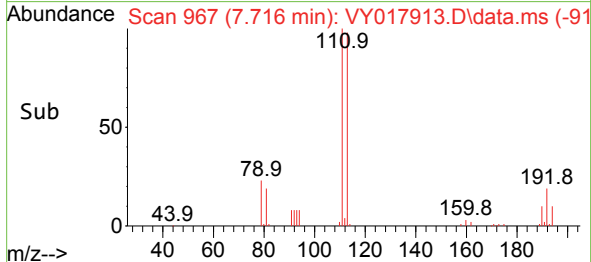
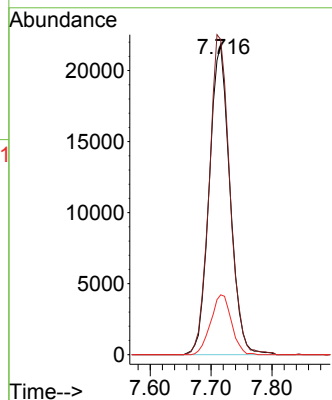
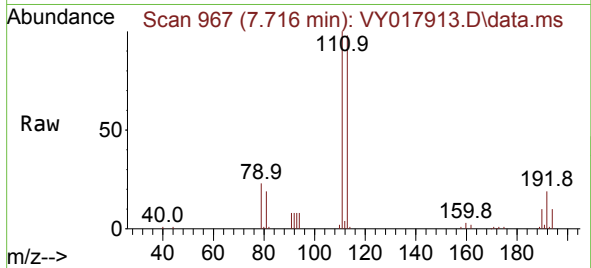




#35
Dibromofluoromethane
Concen: 58.080 ug/l
RT: 7.716 min Scan# 911
Delta R.T. 0.000 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

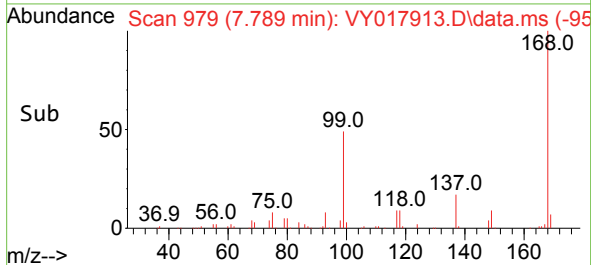
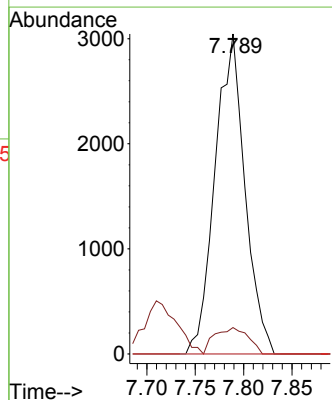
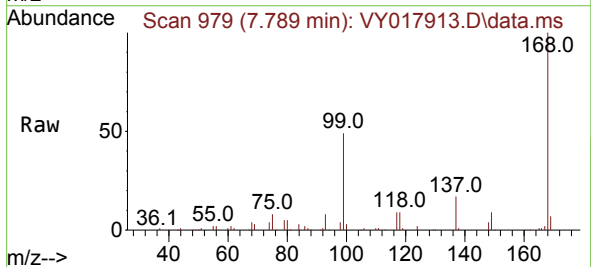
Instrument :
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ClientSampleId :
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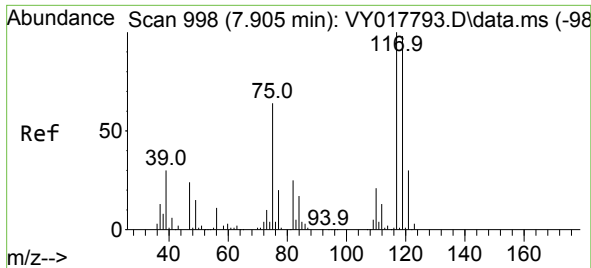
Tgt Ion:113 Resp: 51393
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.4
192 19.4 15.9 23.9



#36
1,1-Dichloropropene
Concen: 5.060 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

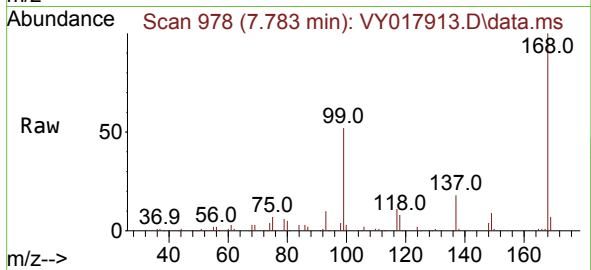
Tgt Ion: 75 Resp: 6533
Ion Ratio Lower Upper
75 100
110 9.2 19.0 57.0#
77 0.0 25.3 37.9#



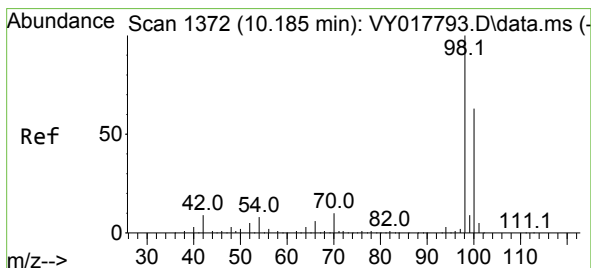
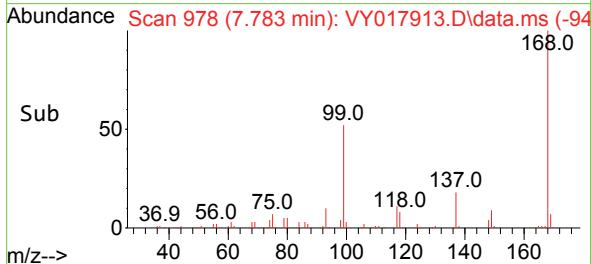
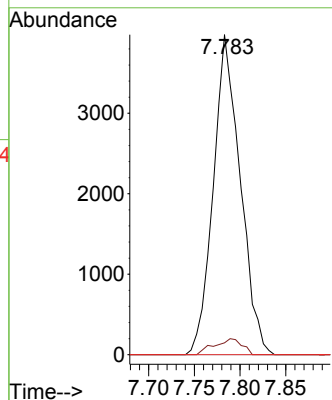


#38
Carbon Tetrachloride
Concen: 6.081 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

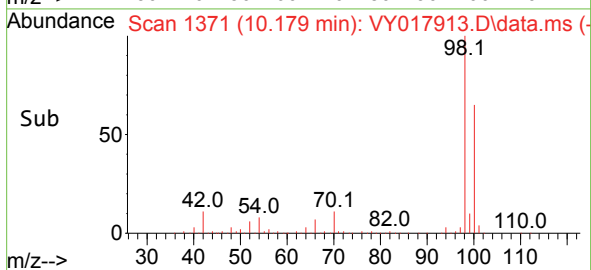
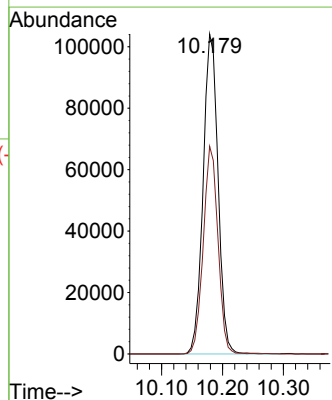
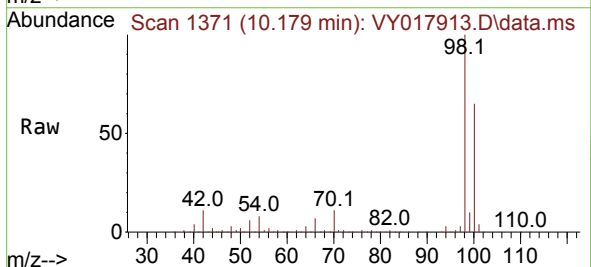


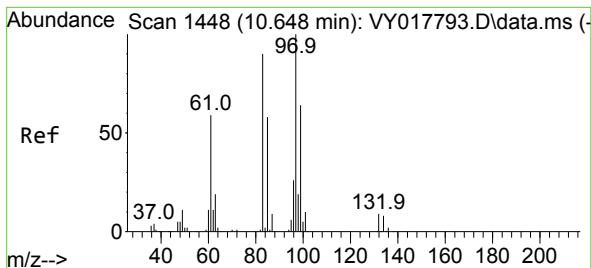
Tgt Ion:117 Resp: 8151
Ion Ratio Lower Upper
117 100
119 3.7 75.8 113.6#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 53.763 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion: 98 Resp: 177706
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0

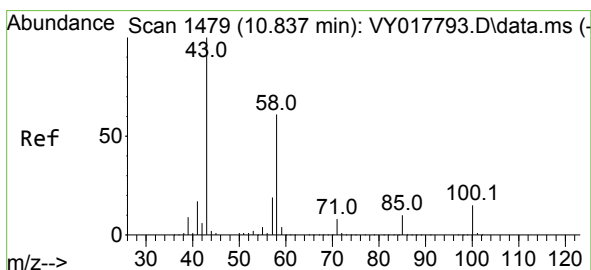
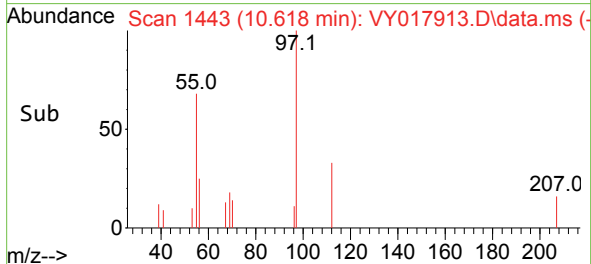
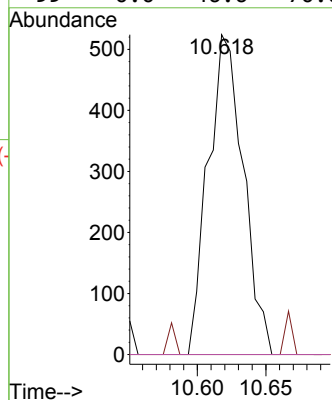
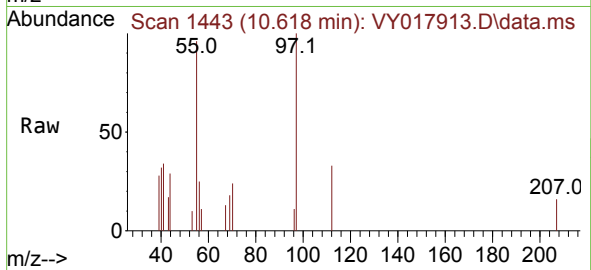




#55
1,1,2-Trichloroethane
Concen: 1.336 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.030 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

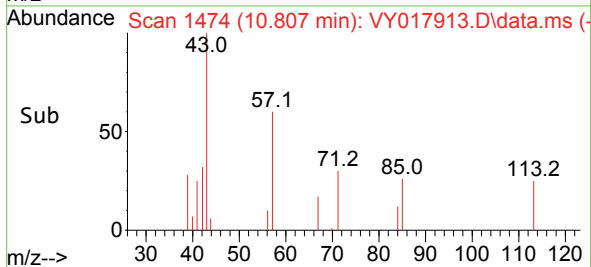
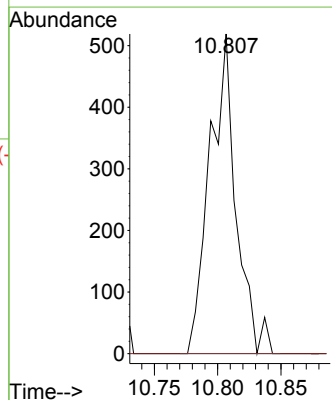
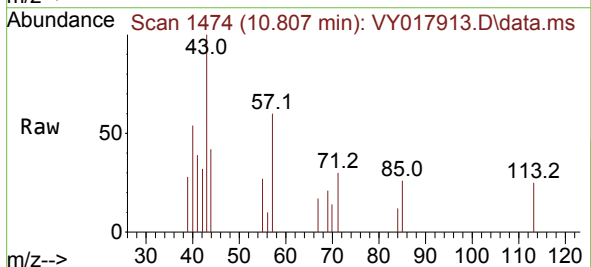
Instrument : MSVOA_Y
ClientSampleId : HR-02-041024

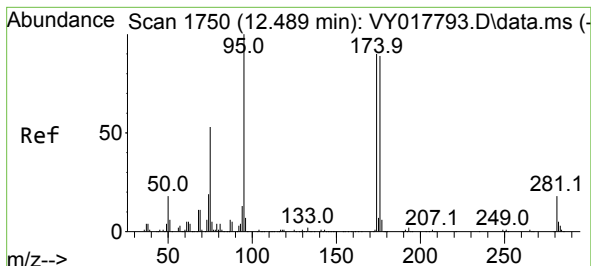
Tgt Ion: 97	Resp:	935
Ion	Ratio	Lower Upper
97	100	
83	0.0	67.5 101.3#
85	0.0	42.9 64.3#
99	0.0	46.6 70.0#



#59
2-Hexanone
Concen: 1.775 ug/l
RT: 10.807 min Scan# 1474
Delta R.T. -0.030 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion: 43	Resp:	752
Ion	Ratio	Lower Upper
43	100	
58	0.0	31.4 94.0#

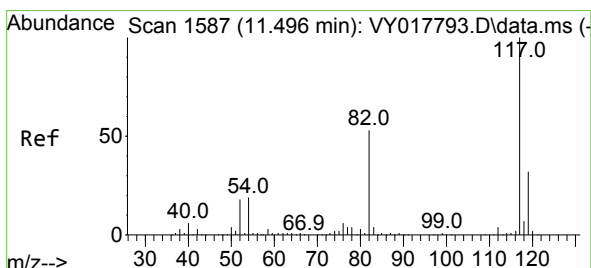
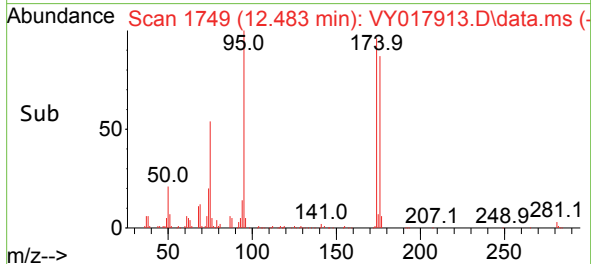
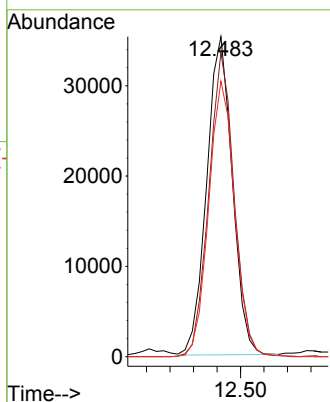
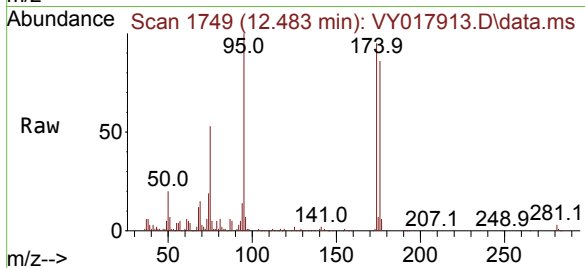




#62
4-Bromofluorobenzene
Concen: 52.959 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

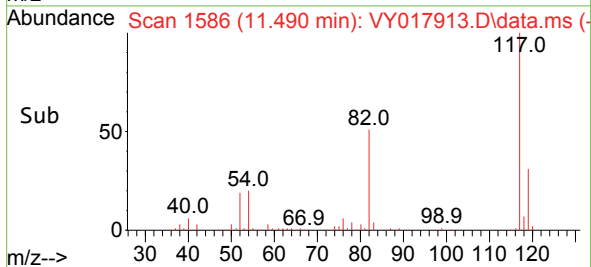
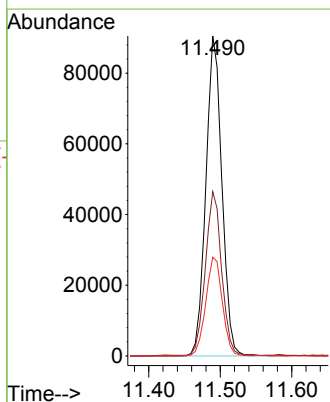
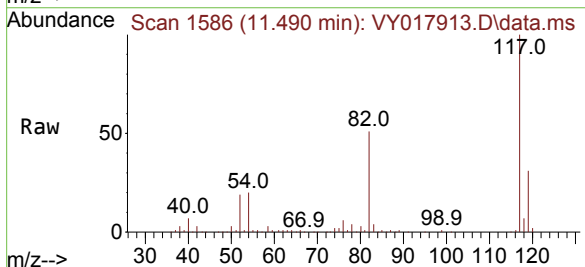
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

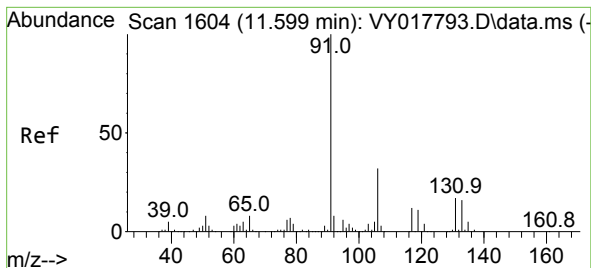
Tgt Ion: 95 Resp: 53259
Ion Ratio Lower Upper
95 100
174 94.7 0.0 175.6
176 88.1 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion: 117 Resp: 140866
Ion Ratio Lower Upper
117 100
82 51.1 42.4 63.6
119 30.9 25.9 38.9





#67

Ethyl Benzene

Concen: 1.343 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. -0.006 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

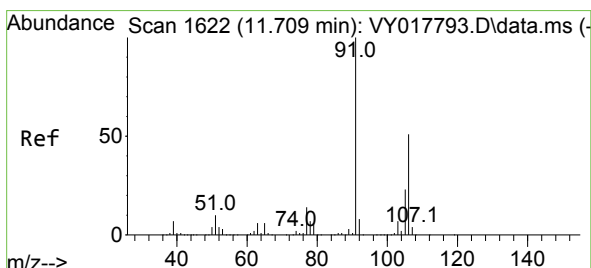
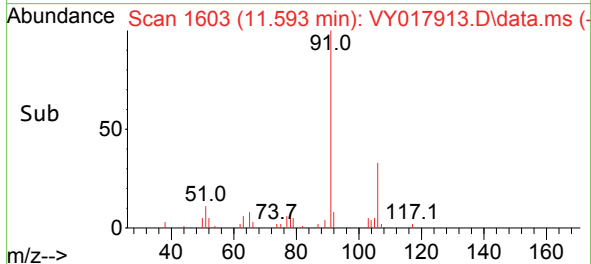
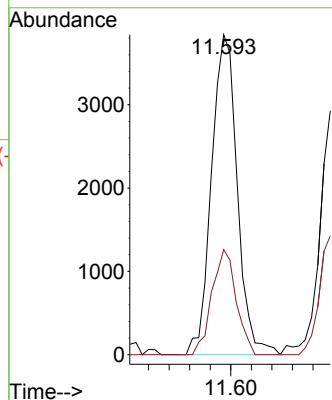
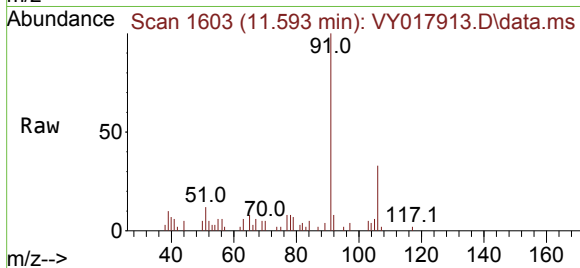
HR-02-041024

Tgt Ion: 91 Resp: 6673

Ion Ratio Lower Upper

91 100

106 32.9 24.5 36.7



#68

m/p-Xylenes

Concen: 1.889 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. -0.006 min

Lab File: VY017913.D

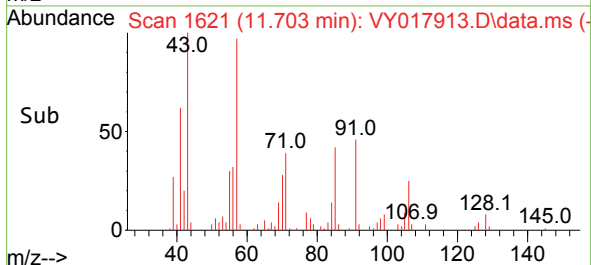
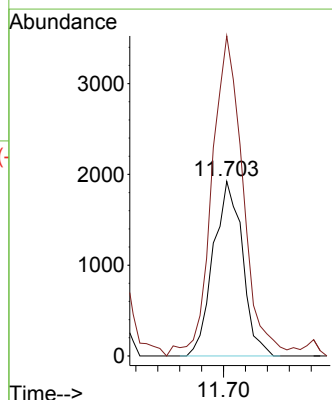
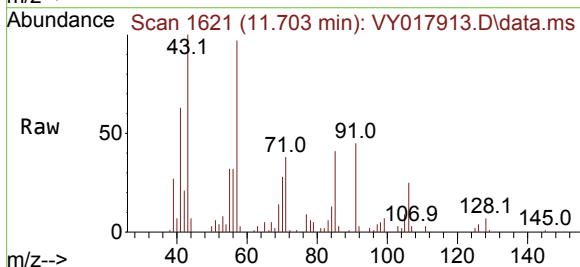
Acq: 11 Apr 2024 16:01

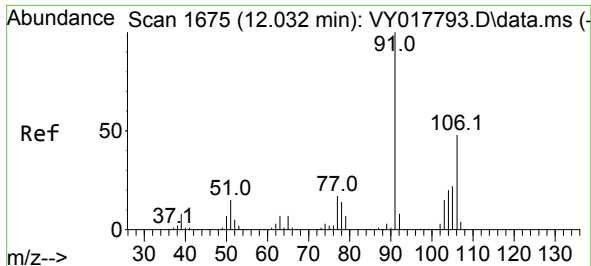
Tgt Ion: 106 Resp: 3559

Ion Ratio Lower Upper

106 100

91 194.8 156.0 234.0

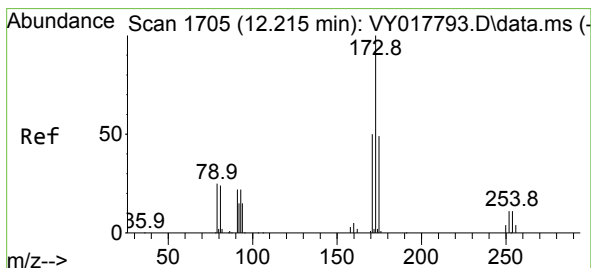
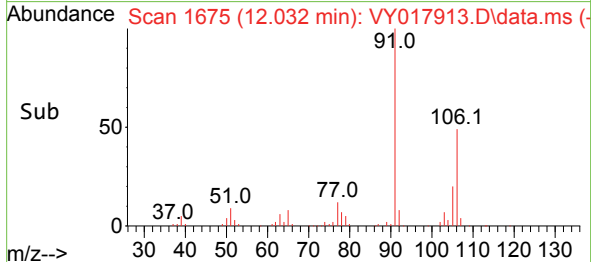
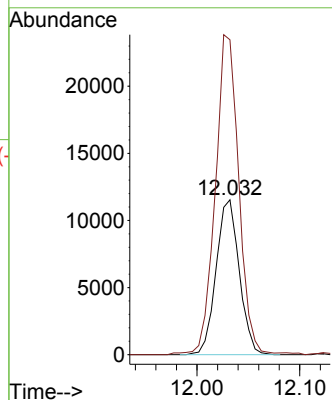
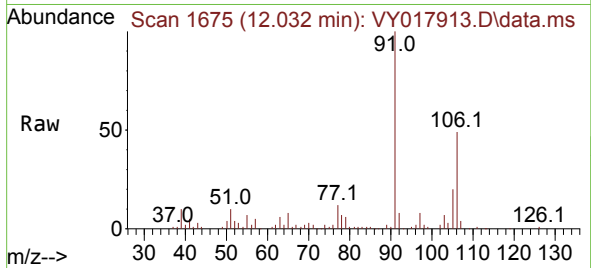




#69
o-Xylene
Concen: 11.563 ug/l
RT: 12.032 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

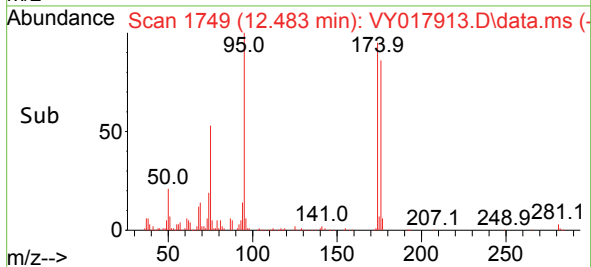
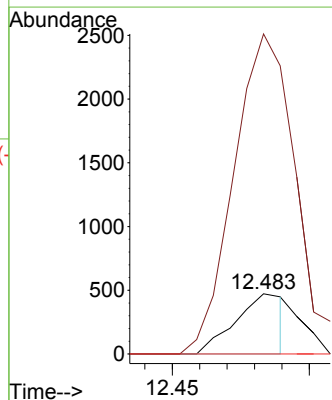
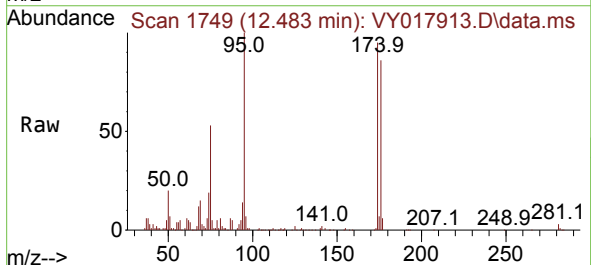
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

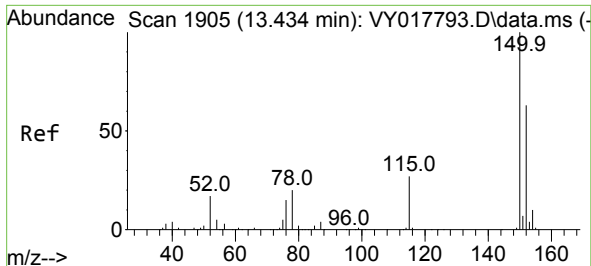
Tgt Ion:106 Resp: 18018
Ion Ratio Lower Upper
106 100
91 210.3 103.6 310.8



#71
Bromoform
Concen: 1.076 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.268 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion:173 Resp: 585
Ion Ratio Lower Upper
173 100
175 542.1 25.1 75.3#
254 0.0 0.0 0.0

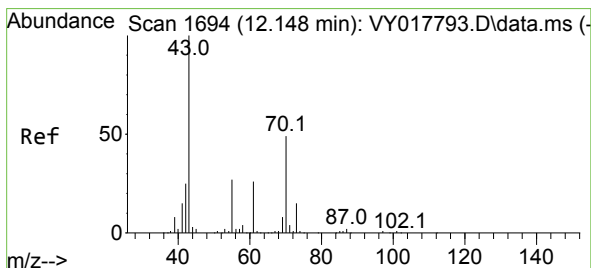
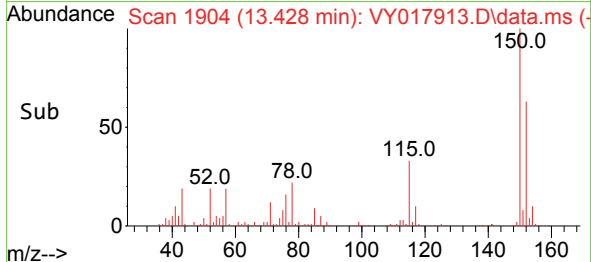
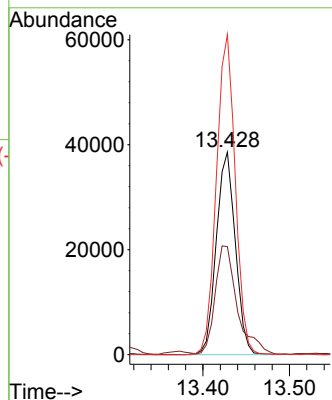
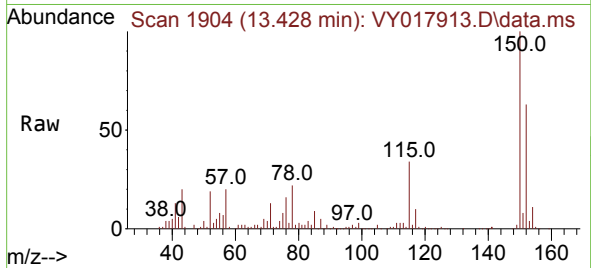




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

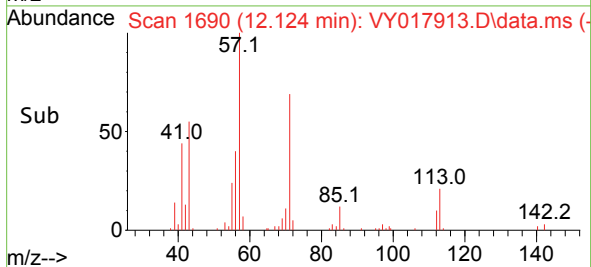
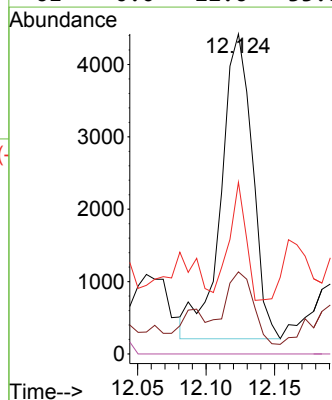
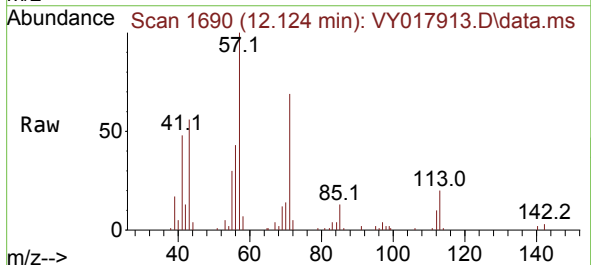
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

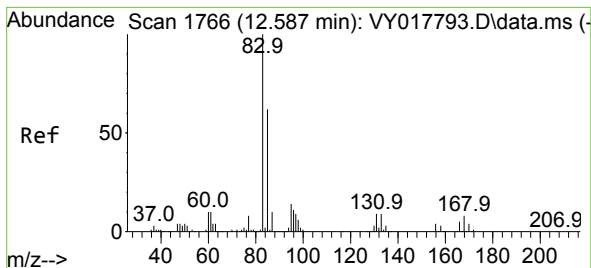
Tgt Ion:152 Resp: 59041
Ion Ratio Lower Upper
152 100
115 62.4 28.2 84.7
150 156.0 0.0 345.6



#74
N-ethyl acetate
Concen: 9.599 ug/l
RT: 12.124 min Scan# 1690
Delta R.T. -0.024 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion: 43 Resp: 6725
Ion Ratio Lower Upper
43 100
70 22.2 41.4 62.2#
55 20.3 23.3 34.9#
61 0.0 22.6 33.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.895 ug/l

RT: 12.532 min Scan# 1757

Delta R.T. -0.055 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

HR-02-041024

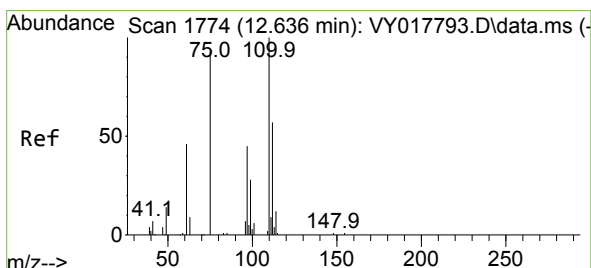
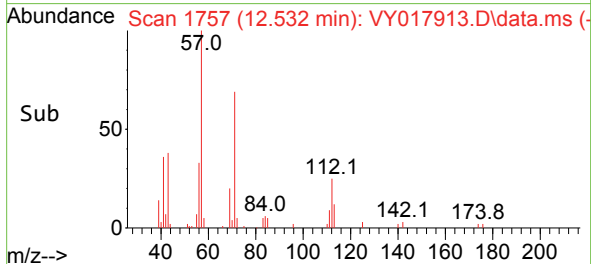
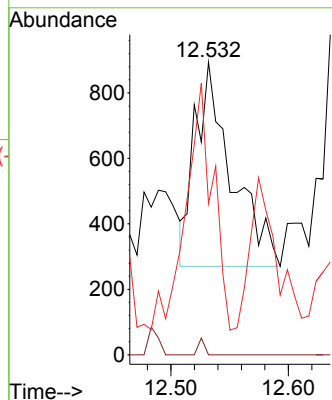
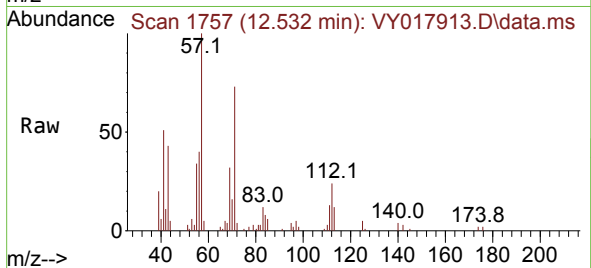
Tgt Ion: 83 Resp: 1356

Ion Ratio Lower Upper

83 100

131 1.4 5.0 14.9#

85 89.3 32.0 96.0



#76

1,2,3-Trichloropropane

Concen: 54.249 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY017913.D

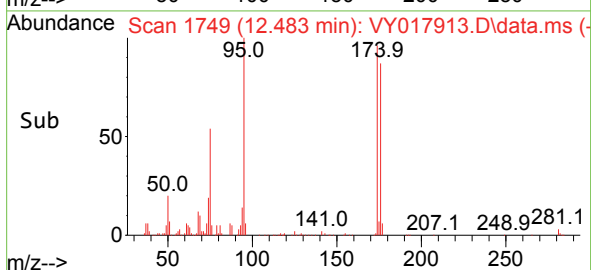
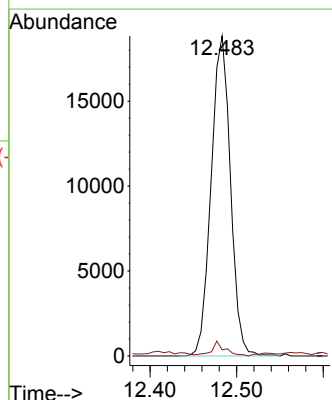
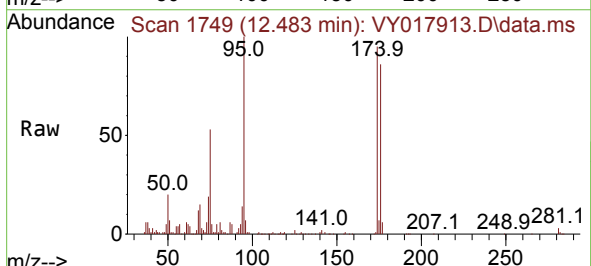
Acq: 11 Apr 2024 16:01

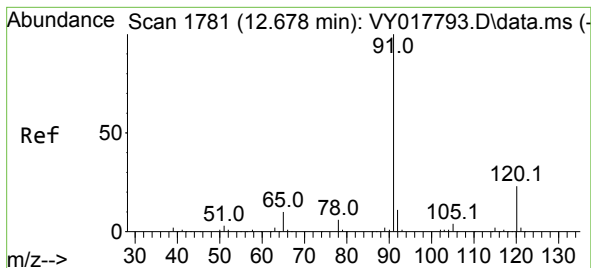
Tgt Ion: 75 Resp: 29187

Ion Ratio Lower Upper

75 100

77 3.1 0.0 0.0#





#78

n-propylbenzene

Concen: 1.619 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. -0.006 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

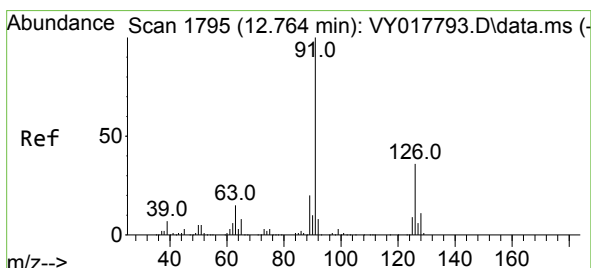
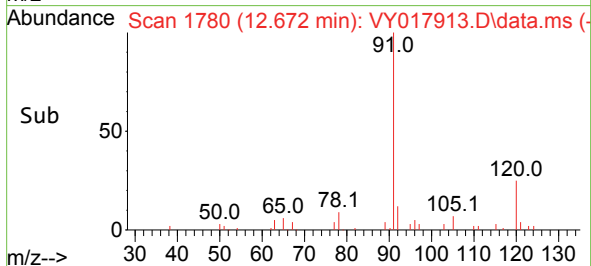
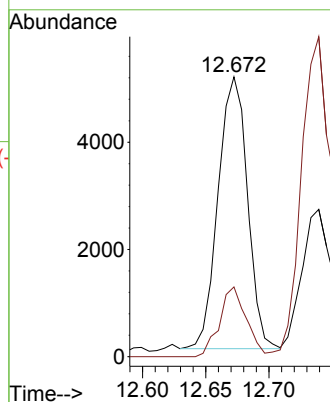
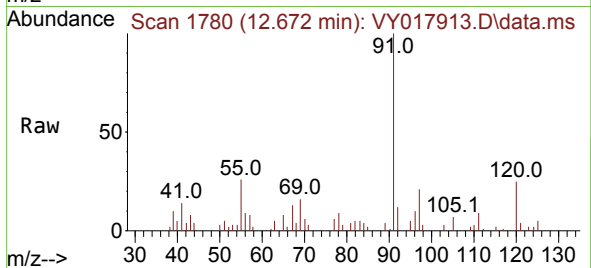
HR-02-041024

Tgt Ion: 91 Resp: 8173

Ion Ratio Lower Upper

91 100

120 23.3 11.5 34.4



#79

2-Chlorotoluene

Concen: 1.997 ug/l

RT: 12.770 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VY017913.D

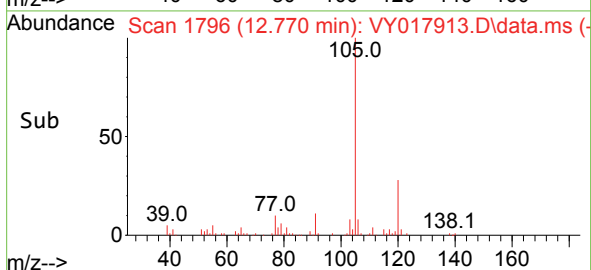
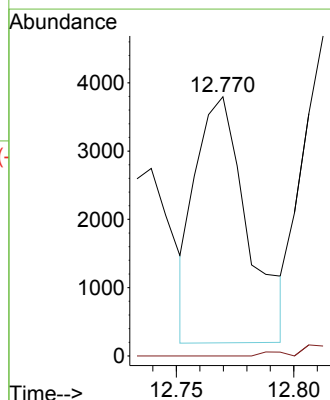
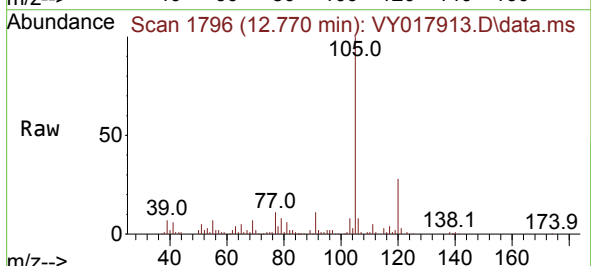
Acq: 11 Apr 2024 16:01

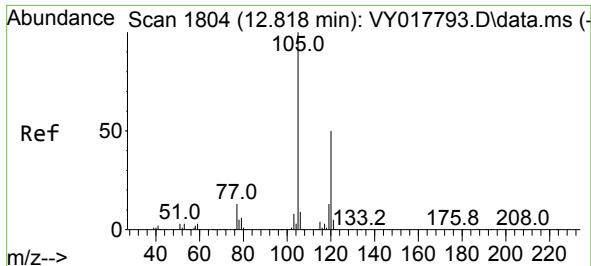
Tgt Ion: 91 Resp: 5523

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.5#

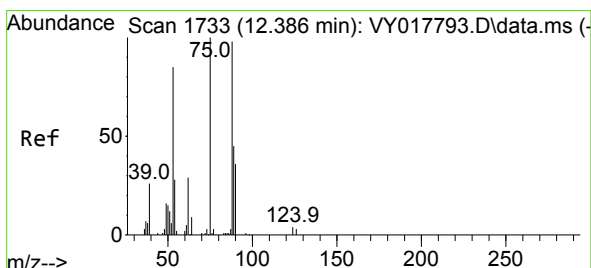
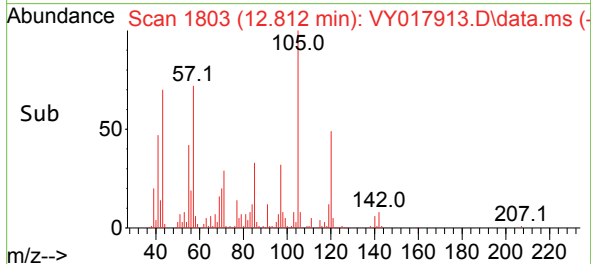
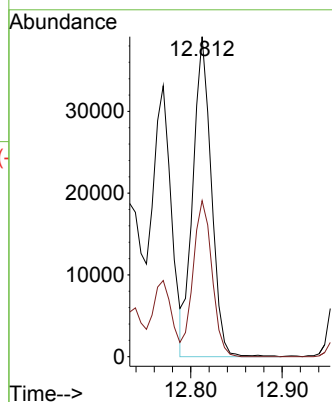
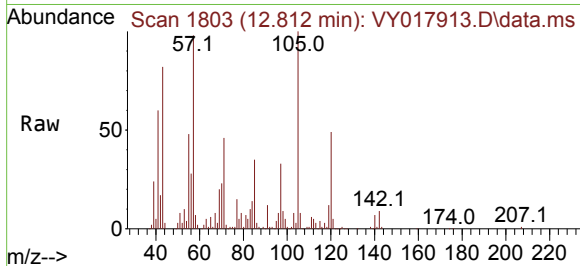




#80
1,3,5-Trimethylbenzene
Concen: 16.917 ug/l
RT: 12.812 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

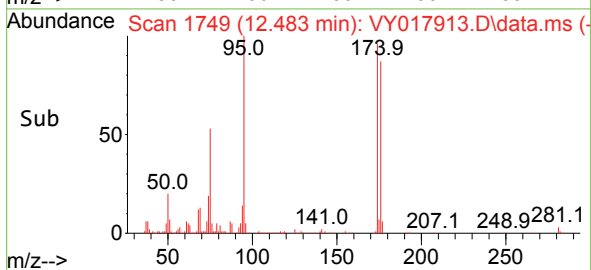
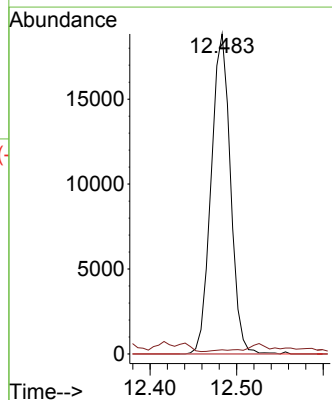
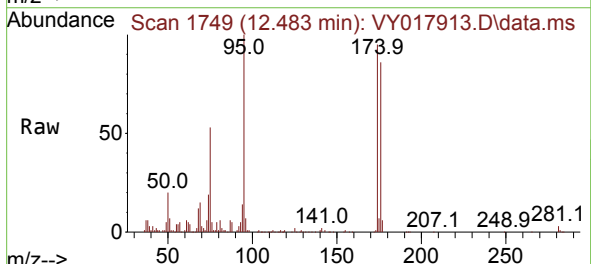
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

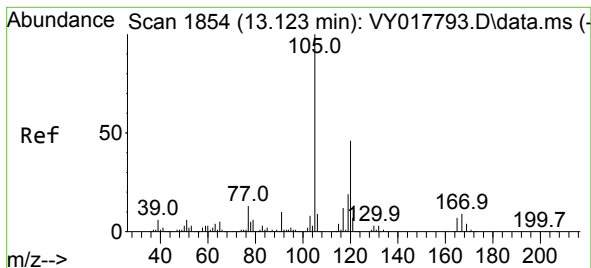
Tgt Ion:105 Resp: 54626
Ion Ratio Lower Upper
105 100
120 50.3 25.1 75.2



#81
trans-1,4-Dichloro-2-butene
Concen: 106.069 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.097 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion: 75 Resp: 29187
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#





#84

1,2,4-Trimethylbenzene

Concen: 5.718 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.006 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

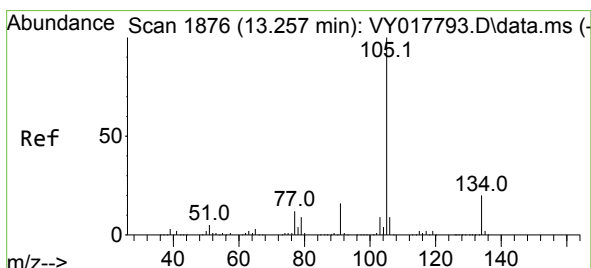
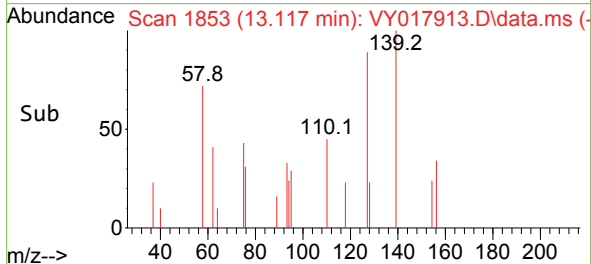
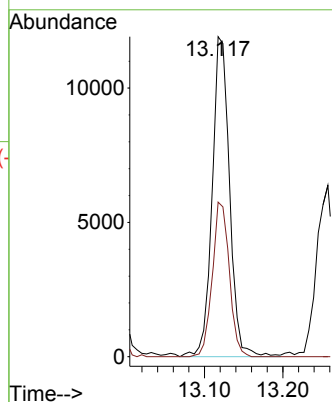
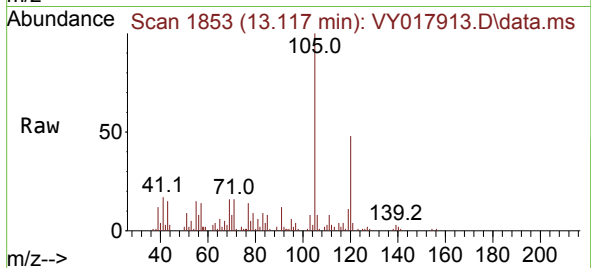
HR-02-041024

Tgt Ion:105 Resp: 18389

Ion Ratio Lower Upper

105 100

120 47.0 23.2 69.6



#85

sec-Butylbenzene

Concen: 2.181 ug/l

RT: 13.258 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VY017913.D

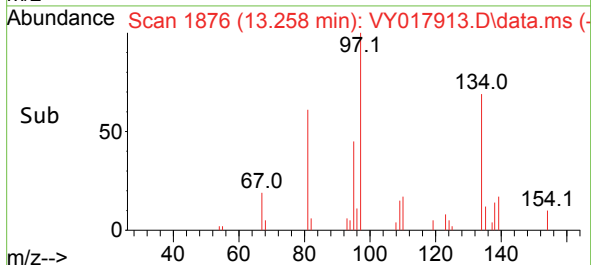
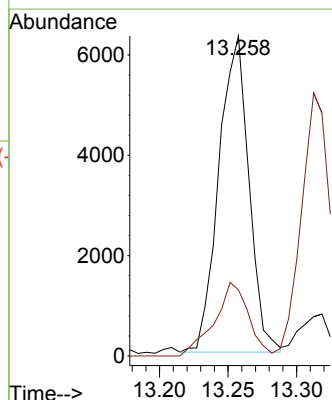
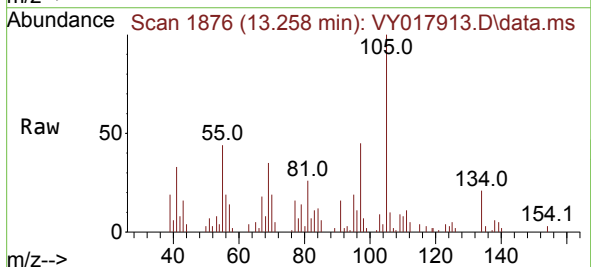
Acq: 11 Apr 2024 16:01

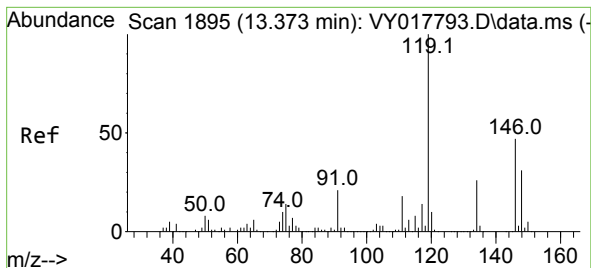
Tgt Ion:105 Resp: 9612

Ion Ratio Lower Upper

105 100

134 26.2 10.1 30.1





#86

p-Isopropyltoluene

Concen: 3.716 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.006 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

HR-02-041024

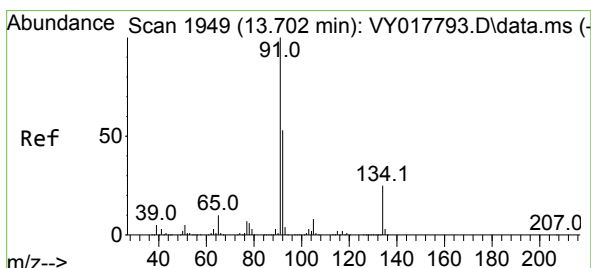
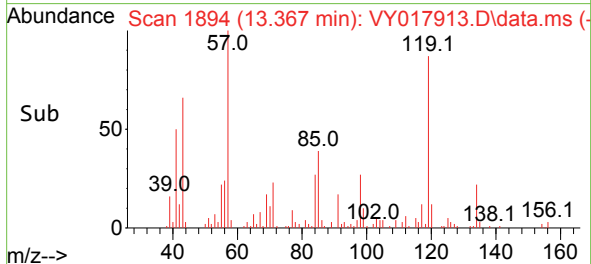
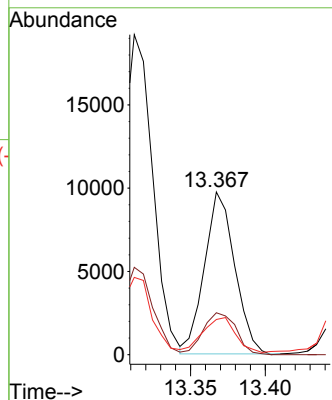
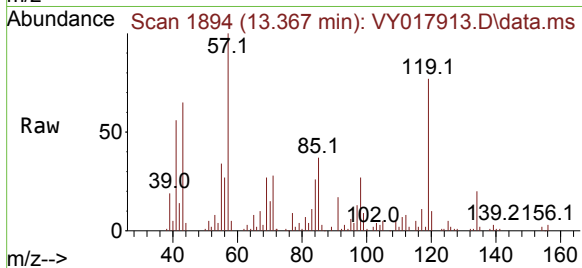
Tgt Ion:119 Resp: 13685

Ion Ratio Lower Upper

119 100

134 28.2 13.1 39.3

91 21.5 10.7 32.1



#89

n-Butylbenzene

Concen: 2.378 ug/l

RT: 13.666 min Scan# 1943

Delta R.T. -0.036 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

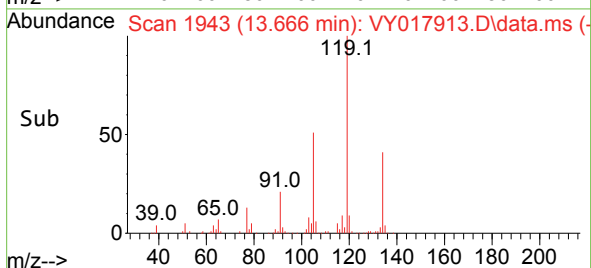
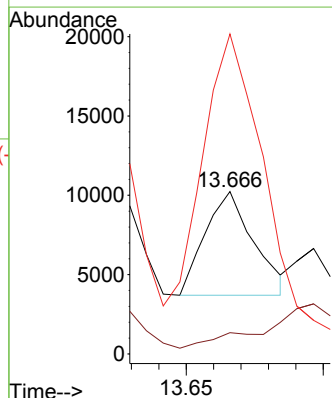
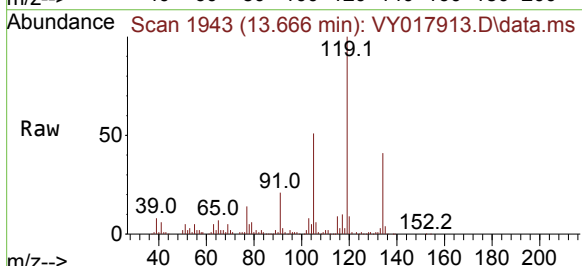
Tgt Ion: 91 Resp: 8057

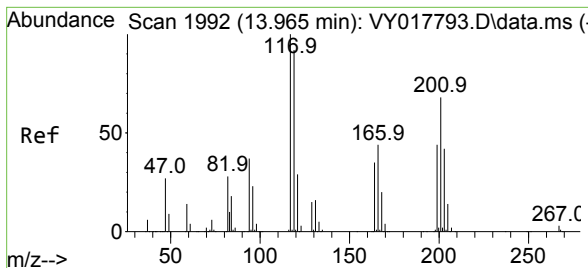
Ion Ratio Lower Upper

91 100

92 0.0 26.6 79.7#

134 429.9 12.9 38.7#





#90

Hexachloroethane

Concen: 10.679 ug/l

RT: 13.971 min Scan# 1992

Delta R.T. 0.006 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

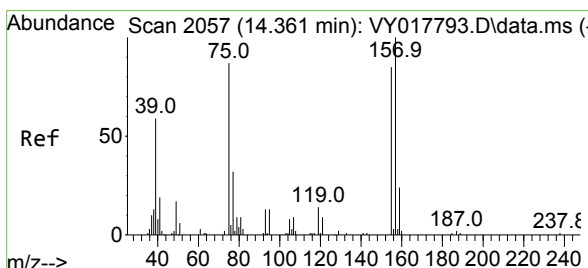
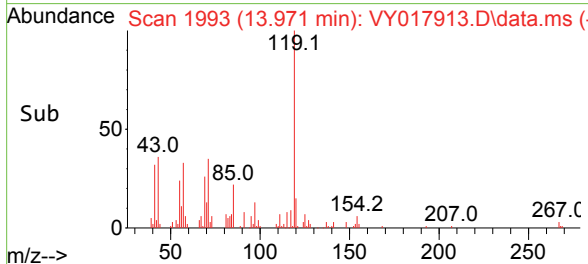
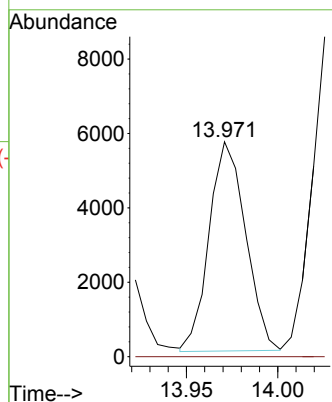
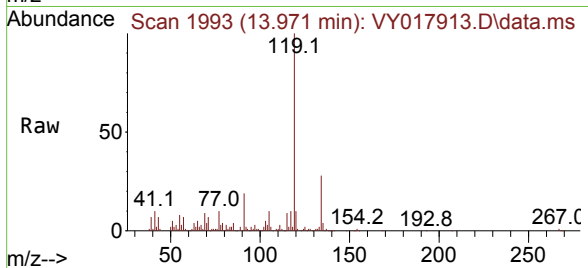
HR-02-041024

Tgt Ion:117 Resp: 7821

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.919 ug/l

RT: 14.379 min Scan# 2060

Delta R.T. 0.018 min

Lab File: VY017913.D

Acq: 11 Apr 2024 16:01

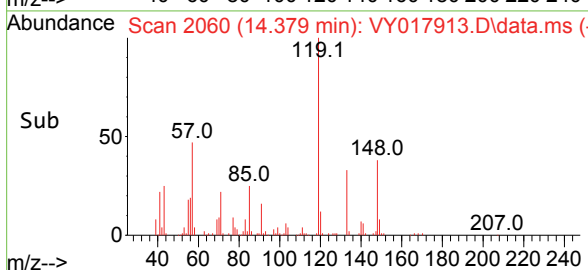
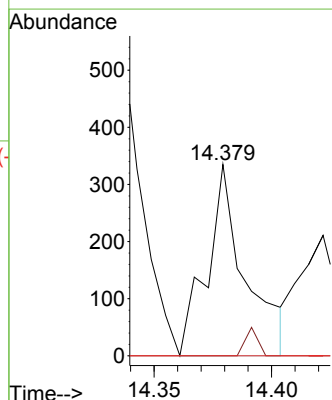
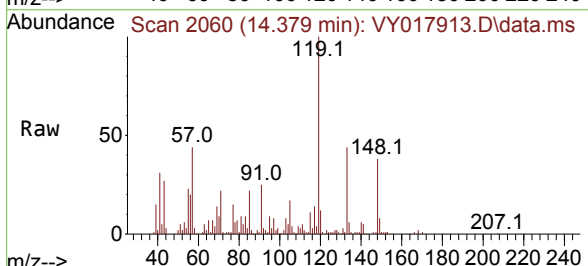
Tgt Ion: 75 Resp: 379

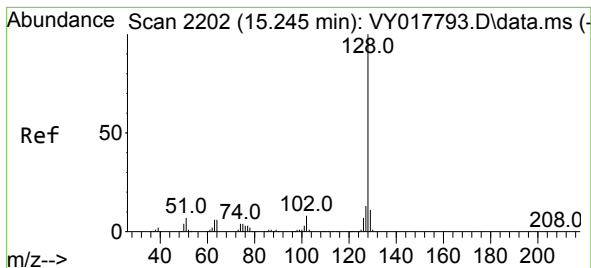
Ion Ratio Lower Upper

75 100

155 4.7 48.6 145.8#

157 0.0 62.7 188.2#

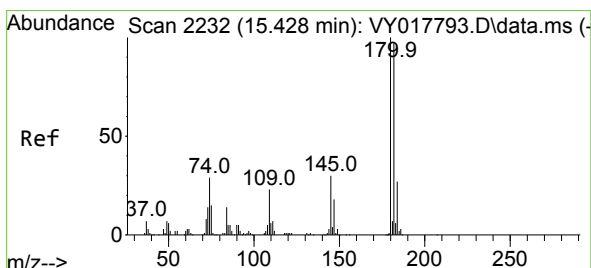
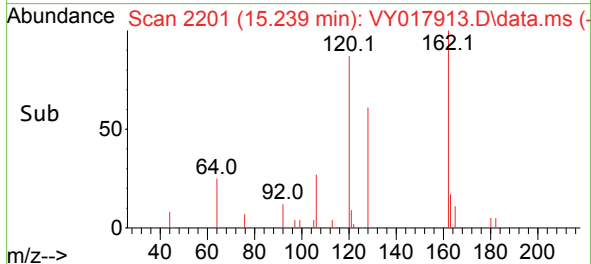
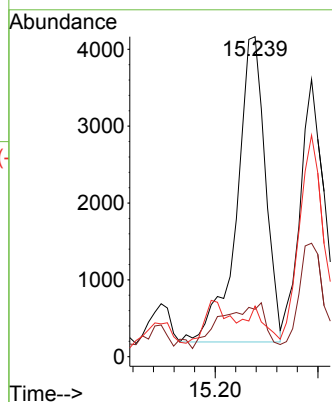
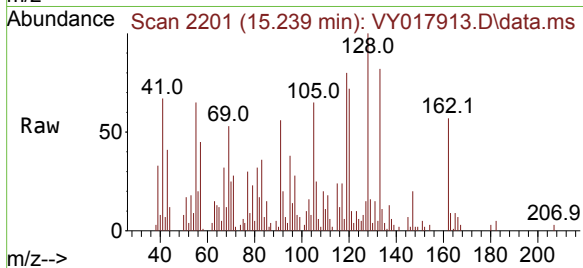




#95
Naphthalene
Concen: 7.022 ug/l
RT: 15.239 min Scan# 211
Delta R.T. -0.006 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041024

Tgt Ion:128 Resp: 7721
Ion Ratio Lower Upper
128 100
127 22.6 10.6 16.0#
129 4.2 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.044 ug/l
RT: 15.446 min Scan# 2235
Delta R.T. 0.018 min
Lab File: VY017913.D
Acq: 11 Apr 2024 16:01

Tgt Ion:180 Resp: 783
Ion Ratio Lower Upper
180 100
182 0.0 47.6 142.9#
145 817.1 15.4 46.1#

