

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120623\
 Data File : VY016611.D
 Acq On : 06 Dec 2023 13:23
 Operator : SY/MD
 Sample : 05538-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-03-112223RE

Quant Time: Dec 07 00:32:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 05 01:24:25 2023
 Response via : Initial Calibration

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

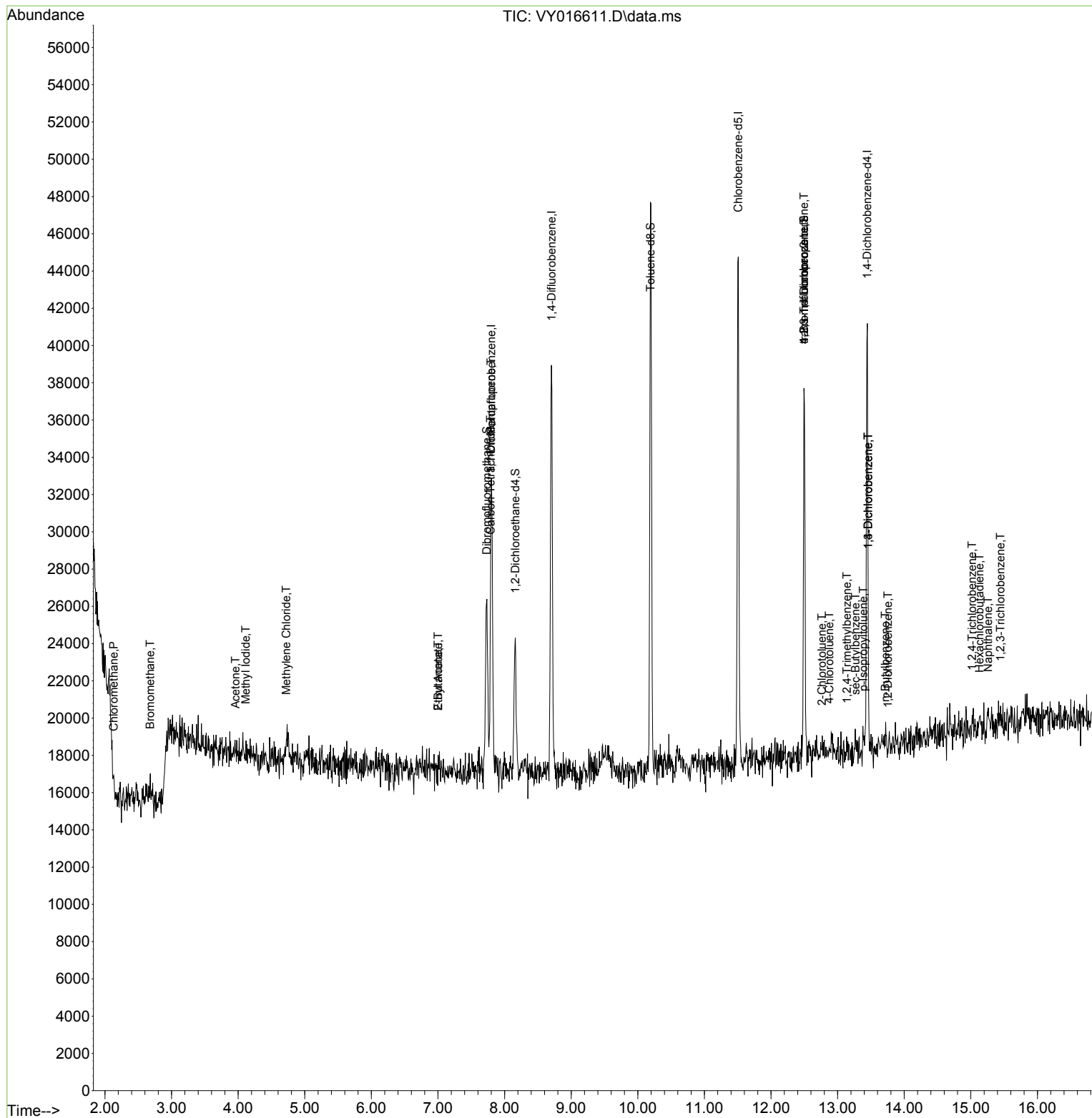
Internal Standards						
1) Pentafluorobenzene	7.801	168	13162	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.703	114	19941	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.508	117	16457	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.446	152	6544	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.161	65	6144	50.505	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.000%			
35) Dibromofluoromethane	7.734	113	6169	51.406	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.820%			
50) Toluene-d8	10.191	98	21576	47.532	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.060%			
62) 4-Bromofluorobenzene	12.495	95	5860	39.256	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 78.520%			
Target Compounds						Qvalue
3) Chloromethane	2.131	50	185	1.534	ug/l #	43
5) Bromomethane	2.680	94	247	3.237	ug/l	83
10) Methyl Iodide	4.113	142	357	2.624	ug/l #	54
16) Acetone	3.960	43	399	14.494	ug/l	98
20) Methylene Chloride	4.722	84	1116	6.248	ug/l #	73
25) 2-Butanone	7.002	43	84	2.219	ug/l #	49
36) 1,1-Dichloropropene	7.795	75	925	5.071	ug/l #	41
37) Ethyl Acetate	7.002	43	84	1.100	ug/l #	71
38) Carbon Tetrachloride	7.789	117	1199	5.678	ug/l #	12
76) 1,2,3-Trichloropropane	12.495	75	3298	55.791	ug/l #	100
79) 2-Chlorotoluene	12.764	91	359	1.130	ug/l	71
81) trans-1,4-Dichloro-2-b...	12.495	75	3298	125.853	ug/l #	10
82) 4-Chlorotoluene	12.873	91	369	1.122	ug/l	96
84) 1,2,4-Trimethylbenzene	13.142	105	469	1.219	ug/l #	61
85) sec-Butylbenzene	13.270	105	515	1.042	ug/l #	74
86) p-Isopropyltoluene	13.385	119	458	1.068	ug/l #	76
87) 1,3-Dichlorobenzene	13.459	146	430	1.972	ug/l	77
88) 1,4-Dichlorobenzene	13.459	146	430	2.010	ug/l	76
89) n-Butylbenzene	13.715	91	454	1.177	ug/l #	77
91) 1,2-Dichlorobenzene	13.757	146	381	2.036	ug/l	80
93) 1,2,4-Trichlorobenzene	15.019	180	347	3.285	ug/l #	66
94) Hexachlorobutadiene	15.129	225	279	4.181	ug/l #	58
95) Naphthalene	15.257	128	915	4.833	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.446	180	495	5.741	ug/l #	85

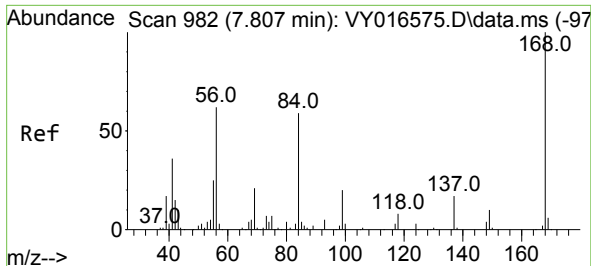
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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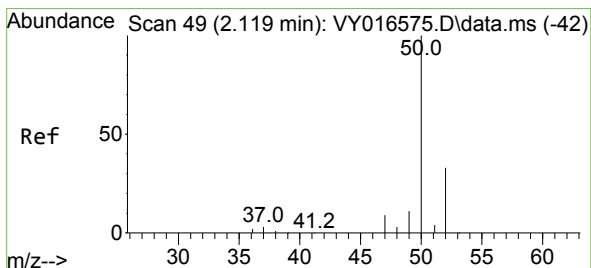
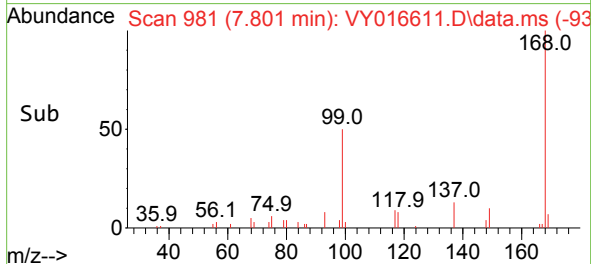
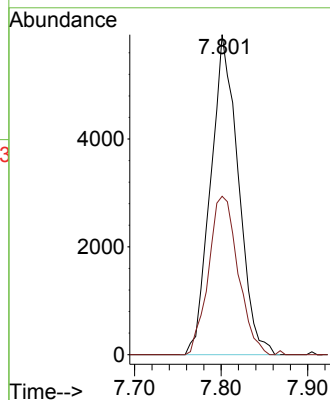
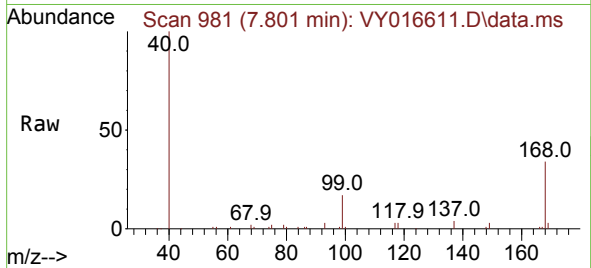




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

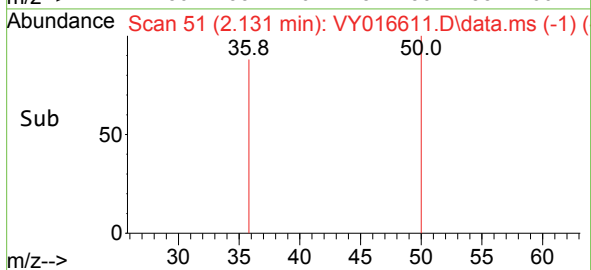
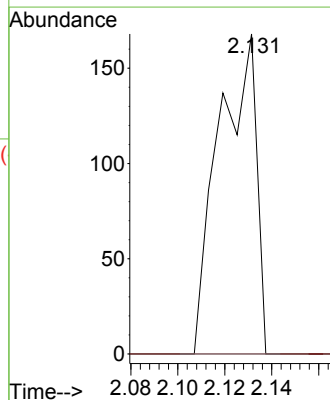
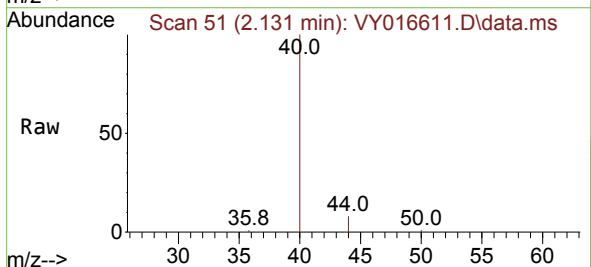
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-112223RE

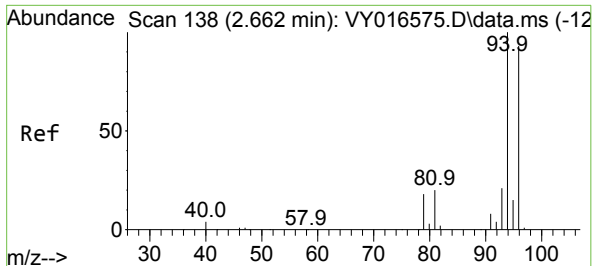
Tgt Ion:168 Resp: 13162
Ion Ratio Lower Upper
168 100
99 49.5 43.4 65.0



#3
Chloromethane
Concen: 1.534 ug/l
RT: 2.131 min Scan# 51
Delta R.T. 0.012 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

Tgt Ion: 50 Resp: 185
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

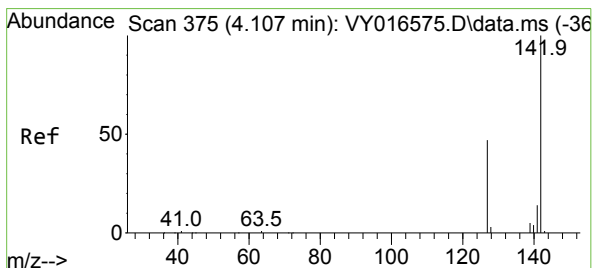
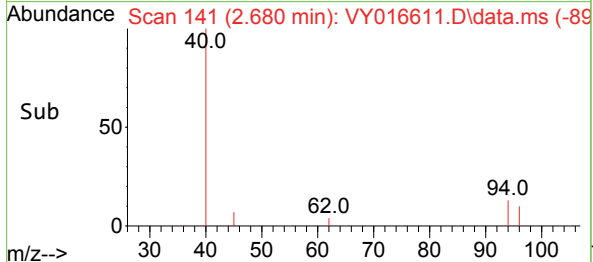
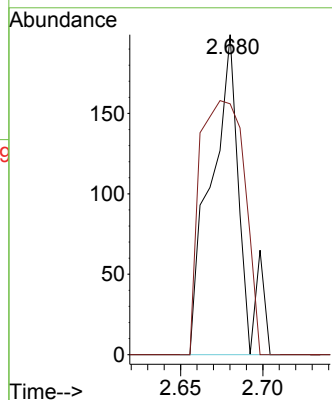
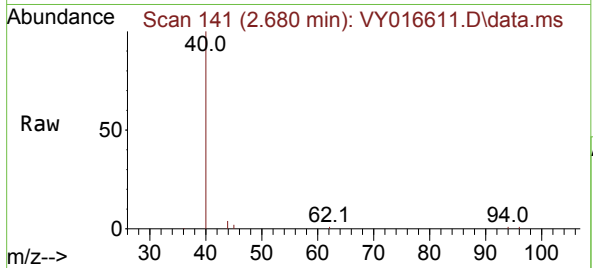




#5
Bromomethane
Concen: 3.237 ug/l
RT: 2.680 min Scan# 141
Delta R.T. 0.018 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

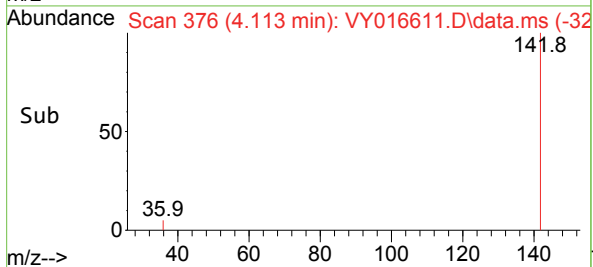
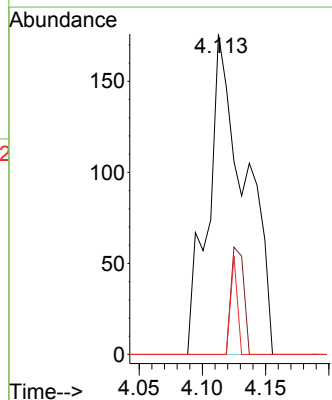
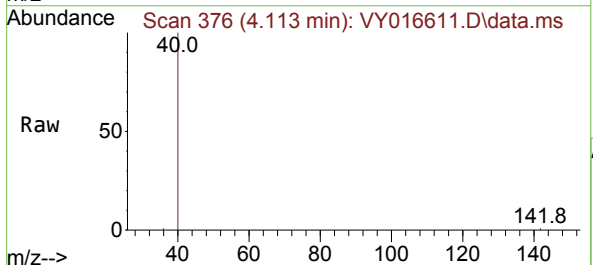
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-112223RE

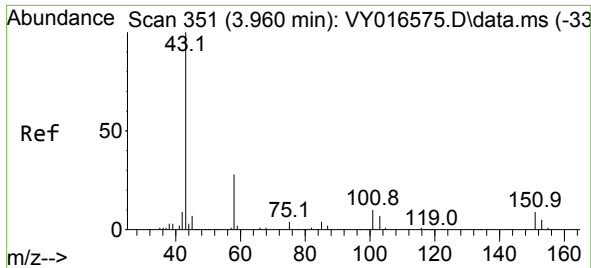
Tgt Ion: 94 Resp: 247
Ion Ratio Lower Upper
94 100
96 78.4 75.8 113.6



#10
Methyl Iodide
Concen: 2.624 ug/l
RT: 4.113 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

Tgt Ion: 142 Resp: 357
Ion Ratio Lower Upper
142 100
127 11.5 37.6 56.4#
141 5.6 11.8 17.8#





#16

Acetone

Concen: 14.494 ug/l

RT: 3.960 min Scan# 3

Delta R.T. 0.000 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

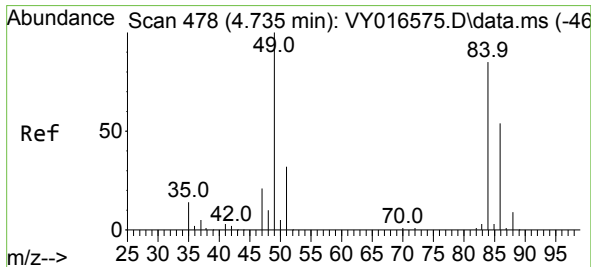
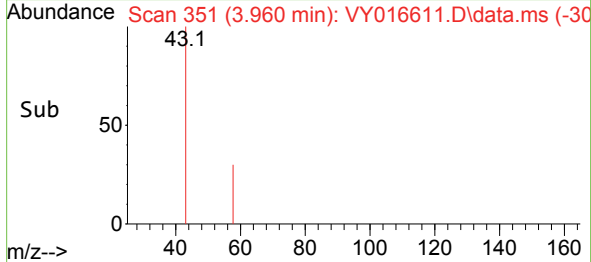
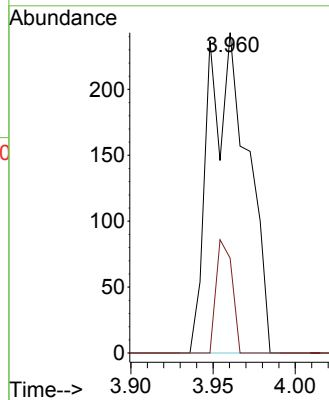
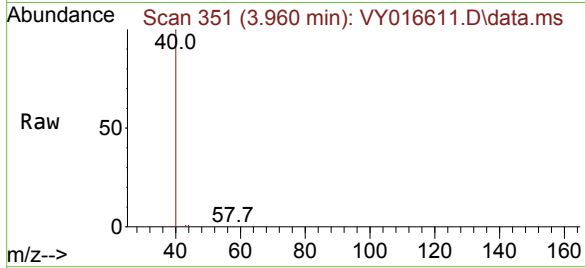
HR-03-112223RE

Tgt Ion: 43 Resp: 399

Ion Ratio Lower Upper

43 100

58 29.6 22.7 34.1



#20

Methylene Chloride

Concen: 6.248 ug/l

RT: 4.722 min Scan# 476

Delta R.T. -0.013 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Tgt Ion: 84 Resp: 1116

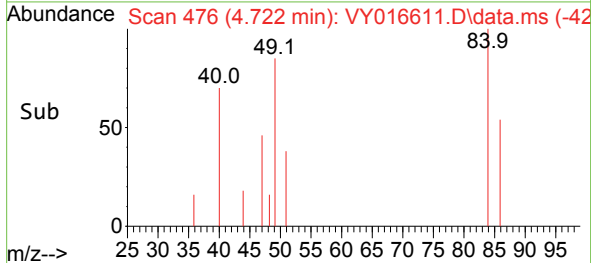
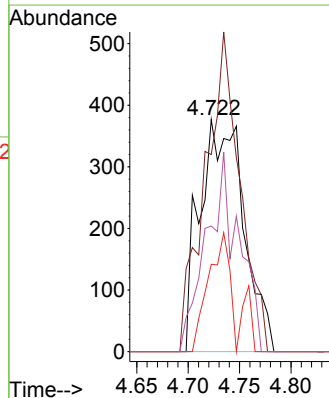
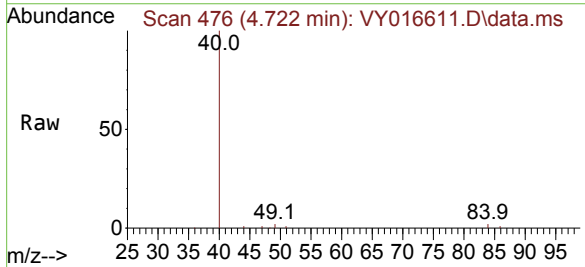
Ion Ratio Lower Upper

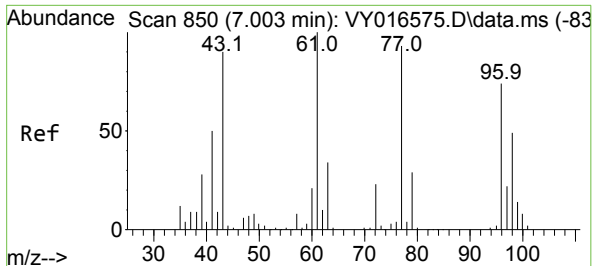
84 100

49 84.9 106.9 160.3#

51 37.7 33.2 49.8

86 54.1 51.0 76.6





#25

2-Butanone

Concen: 2.219 ug/l

RT: 7.002 min Scan# 81

Delta R.T. -0.000 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

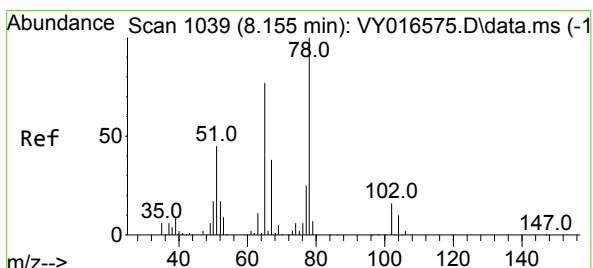
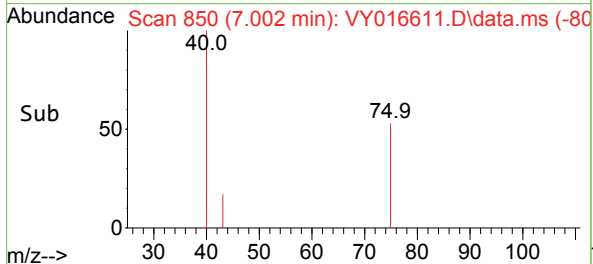
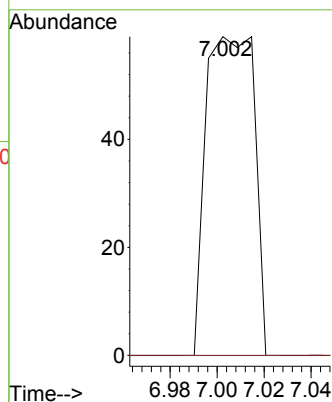
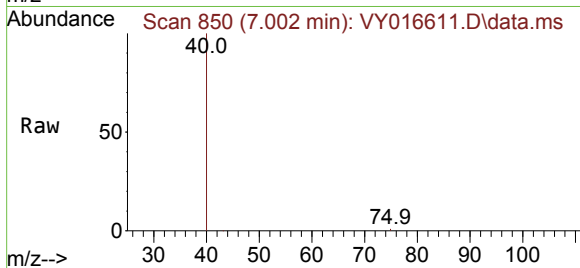
HR-03-112223RE

Tgt Ion: 43 Resp: 84

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#33

1,2-Dichloroethane-d4

Concen: 50.505 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY016611.D

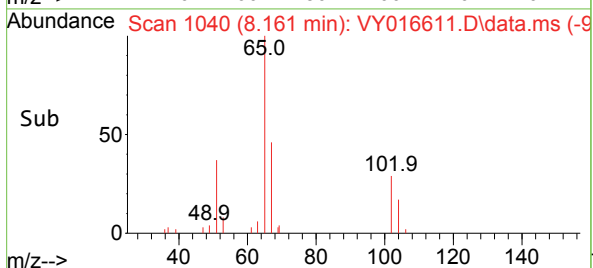
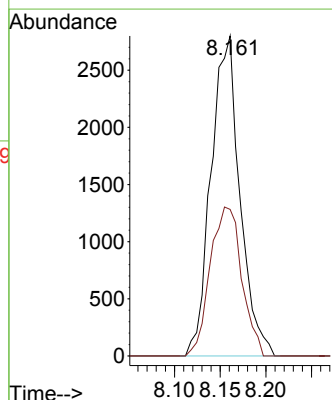
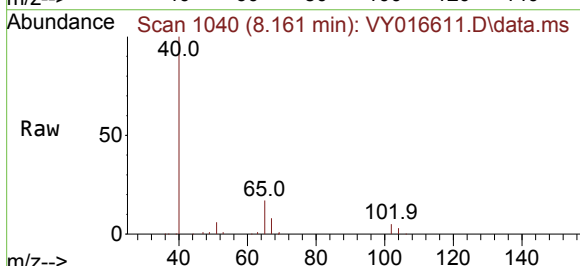
Acq: 06 Dec 2023 13:23

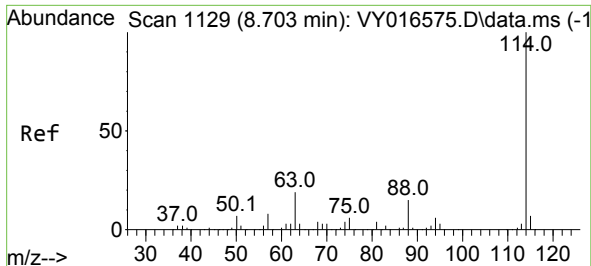
Tgt Ion: 65 Resp: 6144

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.8

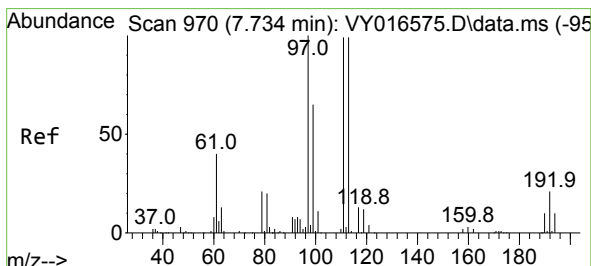
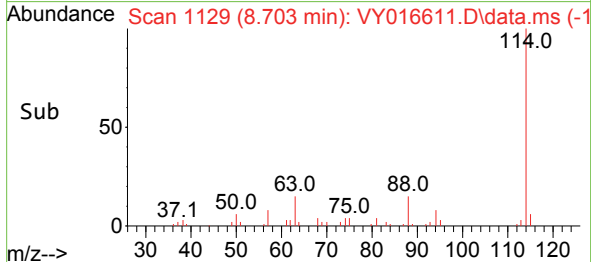
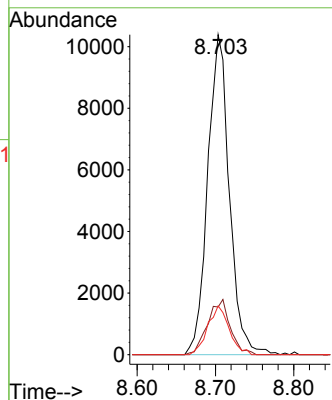
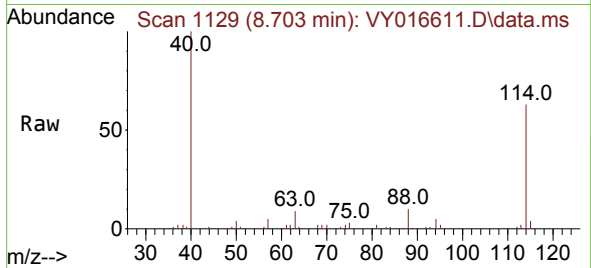




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.703 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

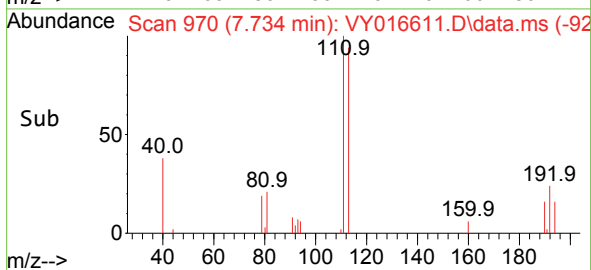
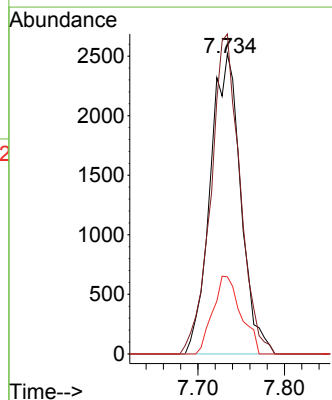
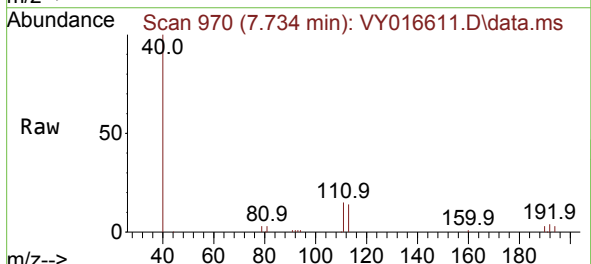
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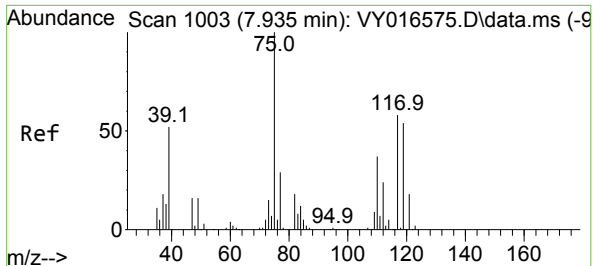
Tgt Ion:114	Resp:	19941
Ion Ratio	Lower	Upper
114	100	
63	14.9	0.0 42.4
88	15.2	0.0 30.6



#35
Dibromofluoromethane
Concen: 51.406 ug/l
RT: 7.734 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

Tgt Ion:113	Resp:	6169
Ion Ratio	Lower	Upper
113	100	
111	101.2	81.3 121.9
192	23.7	16.9 25.3

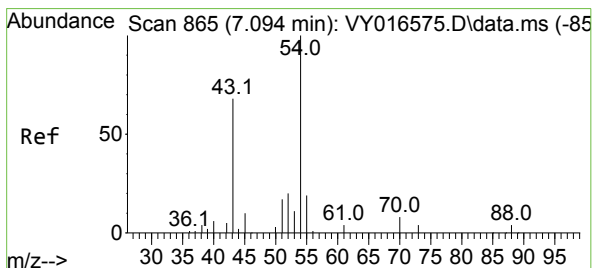
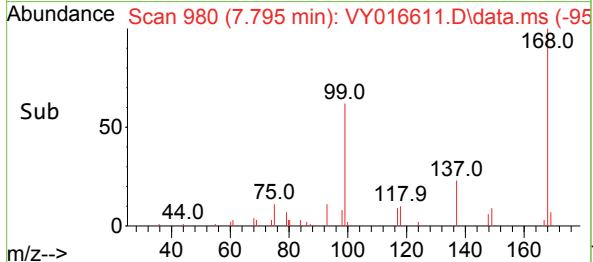
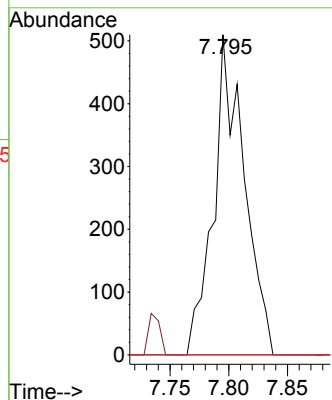
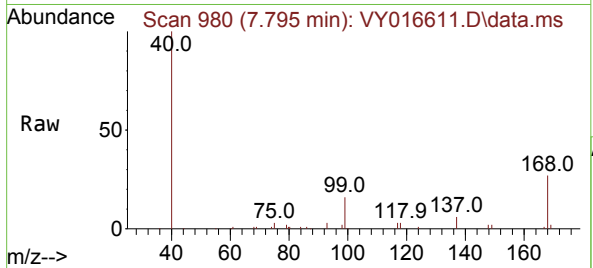




#36
1,1-Dichloropropene
Concen: 5.071 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.140 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

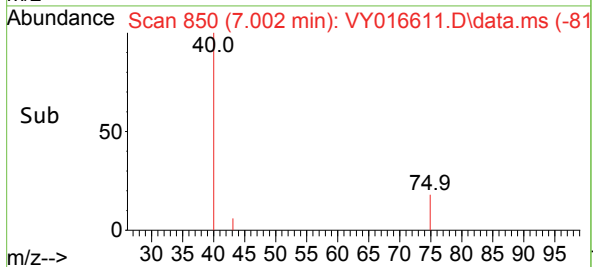
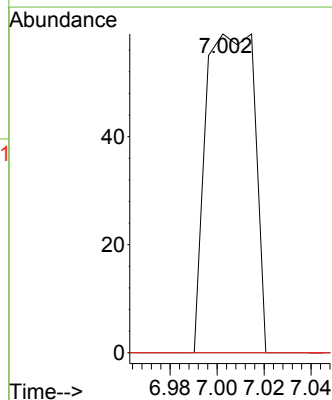
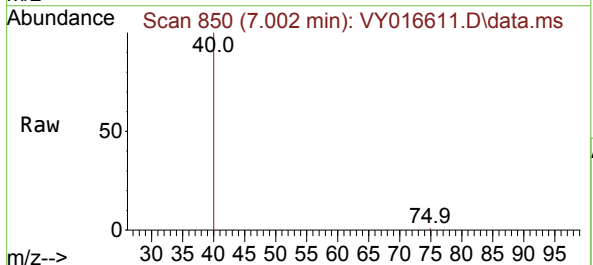
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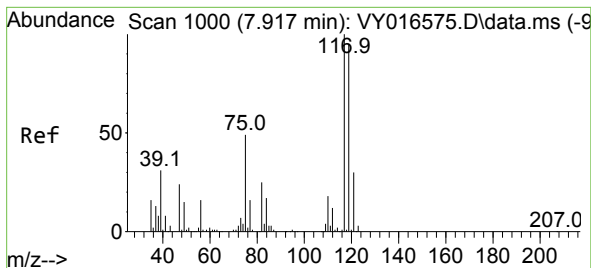
Tgt Ion: 75 Resp: 925
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 1.100 ug/l
RT: 7.002 min Scan# 850
Delta R.T. -0.092 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

Tgt Ion: 43 Resp: 84
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 5.678 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY016611.D

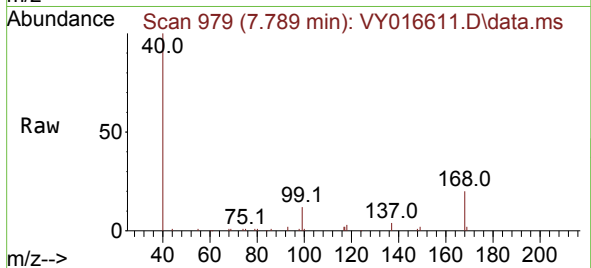
Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

HR-03-112223RE



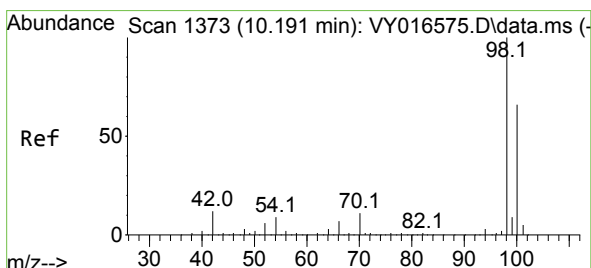
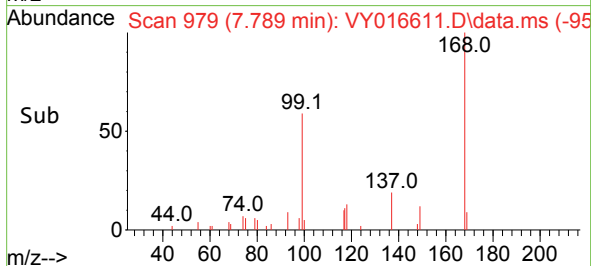
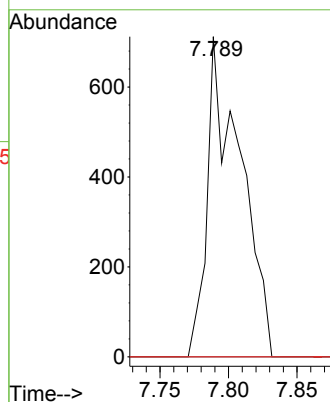
Tgt Ion:117 Resp: 1199

Ion Ratio Lower Upper

117 100

119 0.0 76.4 114.6#

121 0.0 25.8 38.6#



#50

Toluene-d8

Concen: 47.532 ug/l

RT: 10.191 min Scan# 1373

Delta R.T. -0.000 min

Lab File: VY016611.D

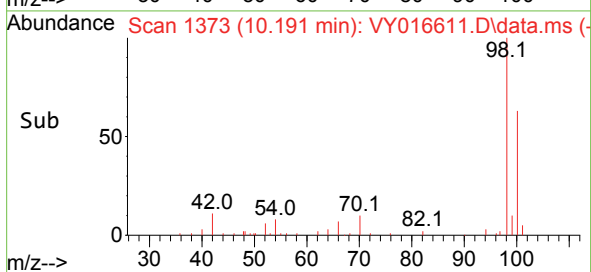
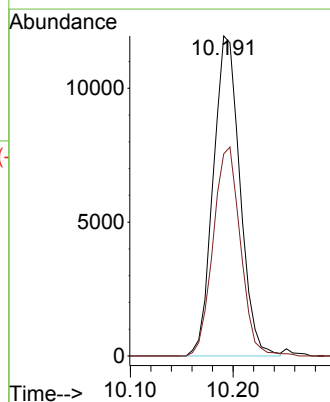
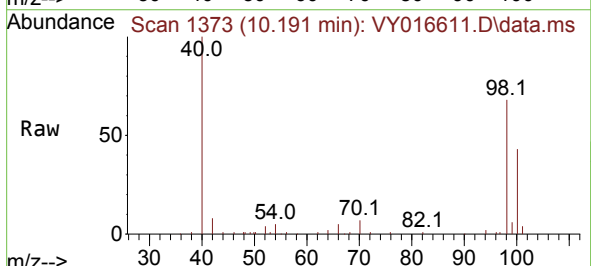
Acq: 06 Dec 2023 13:23

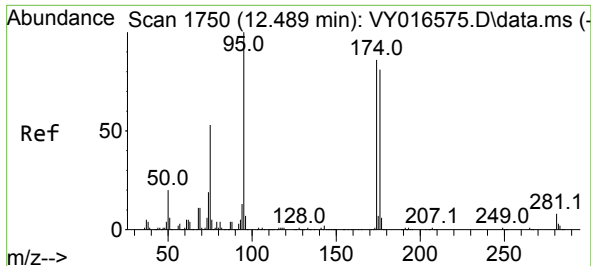
Tgt Ion: 98 Resp: 21576

Ion Ratio Lower Upper

98 100

100 66.8 50.1 75.1

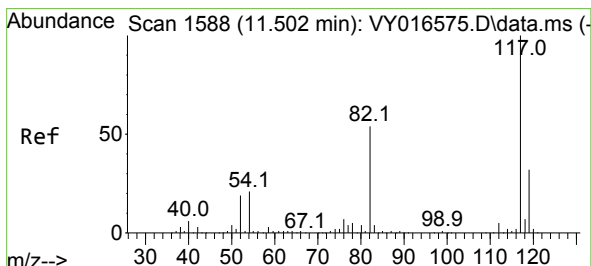
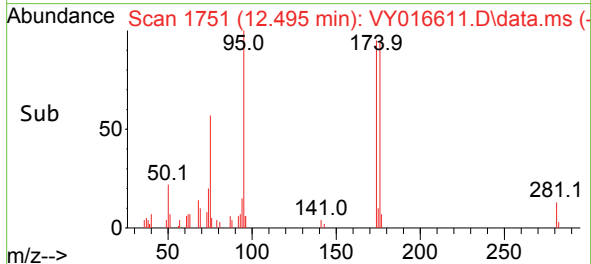
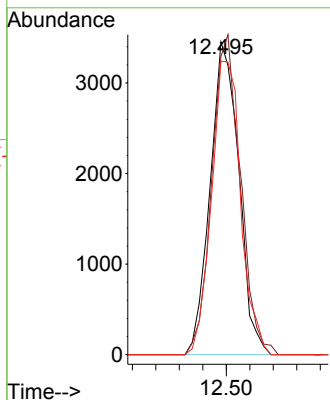
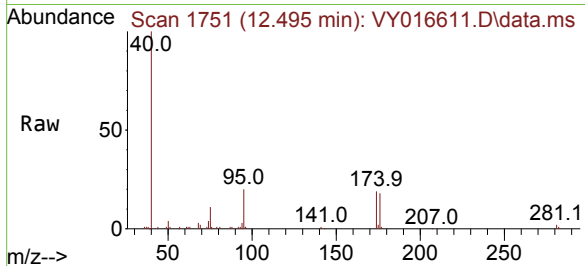




#62
4-Bromofluorobenzene
Concen: 39.256 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.006 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

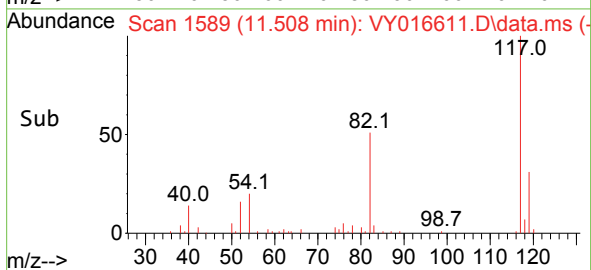
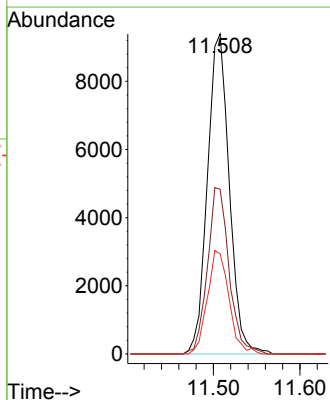
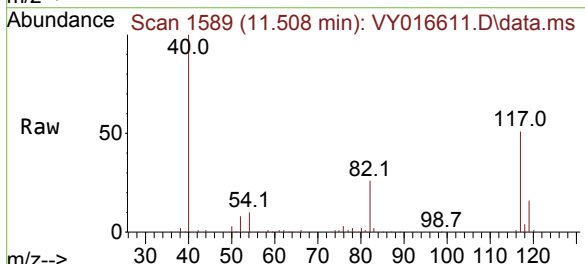
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-112223RE

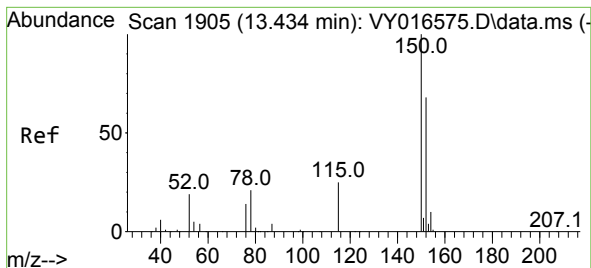
Tgt Ion: 95 Resp: 5860
Ion Ratio Lower Upper
95 100
174 101.5 0.0 178.2
176 95.9 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.508 min Scan# 1589
Delta R.T. 0.006 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

Tgt Ion: 117 Resp: 16457
Ion Ratio Lower Upper
117 100
82 51.5 43.4 65.0
119 31.2 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.446 min Scan# 1905

Delta R.T. 0.012 min

Lab File: VY016611.D

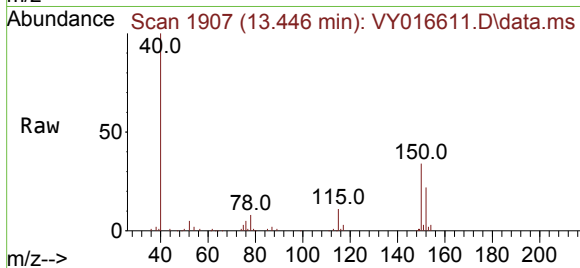
Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

HR-03-112223RE



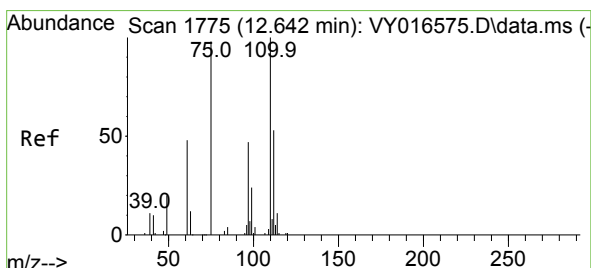
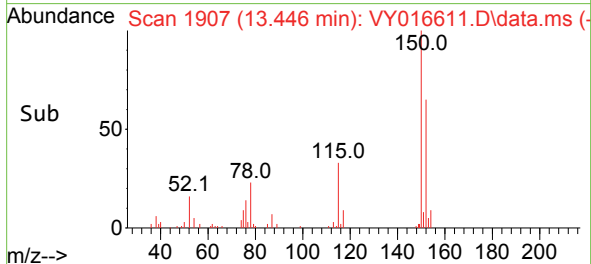
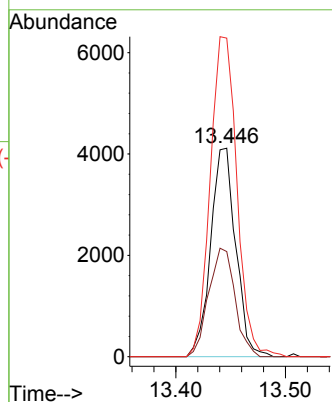
Tgt Ion:152 Resp: 6544

Ion Ratio Lower Upper

152 100

115 54.6 28.8 86.5

150 163.1 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 55.791 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. -0.146 min

Lab File: VY016611.D

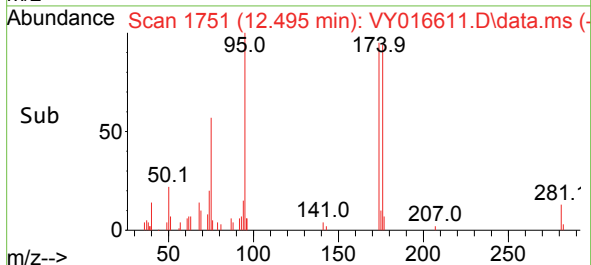
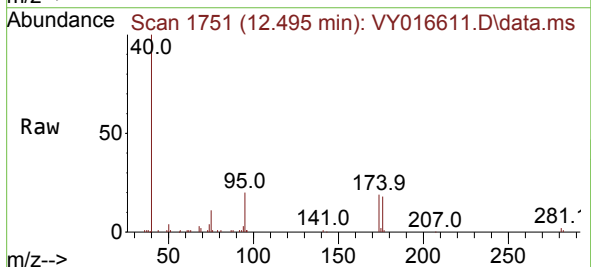
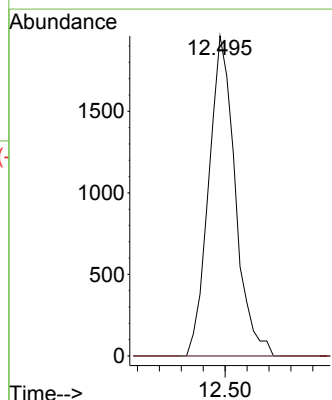
Acq: 06 Dec 2023 13:23

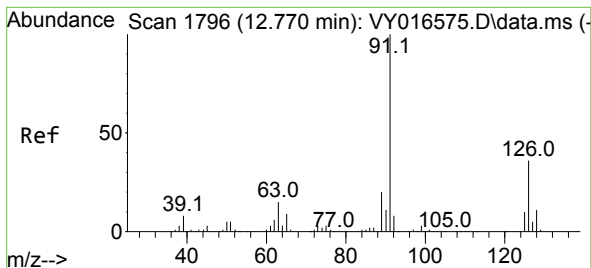
Tgt Ion: 75 Resp: 3298

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#79

2-Chlorotoluene

Concen: 1.130 ug/l

RT: 12.764 min Scan# 1795

Delta R.T. -0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

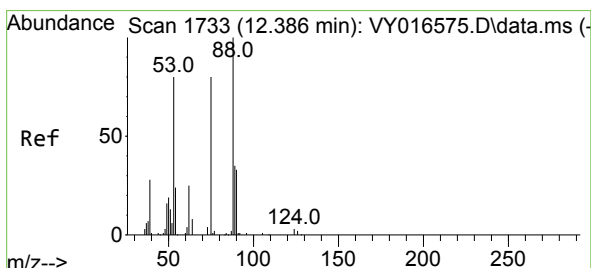
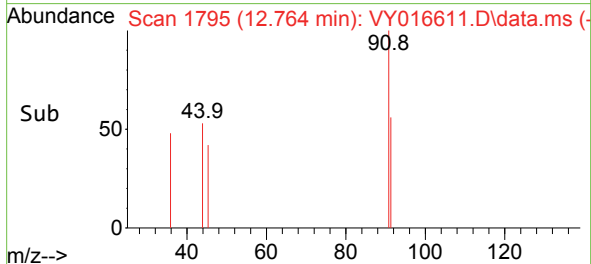
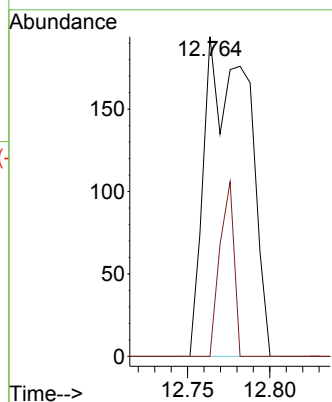
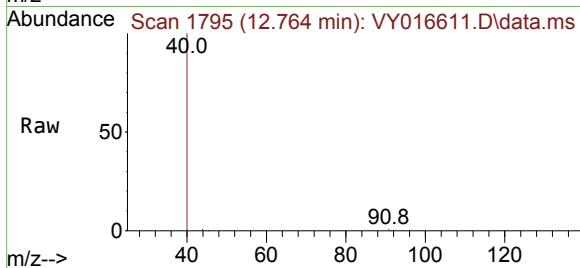
HR-03-112223RE

Tgt Ion: 91 Resp: 359

Ion Ratio Lower Upper

91 100

126 17.8 17.3 51.7



#81

trans-1,4-Dichloro-2-butene

Concen: 125.853 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. 0.110 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

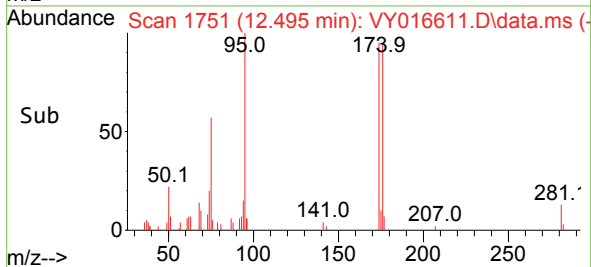
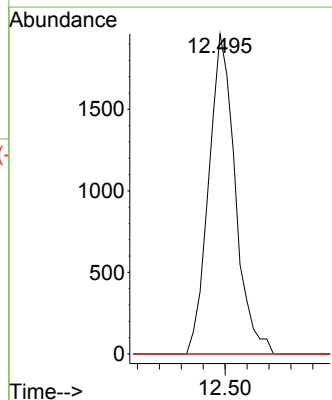
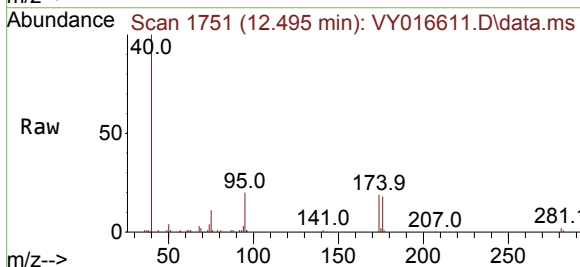
Tgt Ion: 75 Resp: 3298

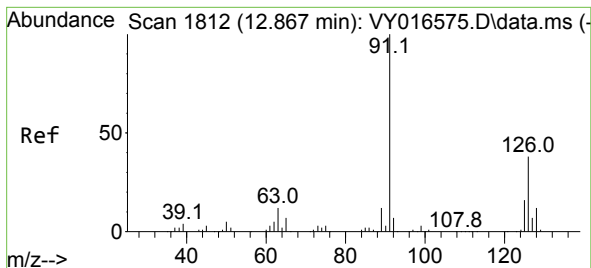
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.0 37.4 56.0#





#82

4-Chlorotoluene

Concen: 1.122 ug/l

RT: 12.873 min Scan# 1812

Delta R.T. 0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

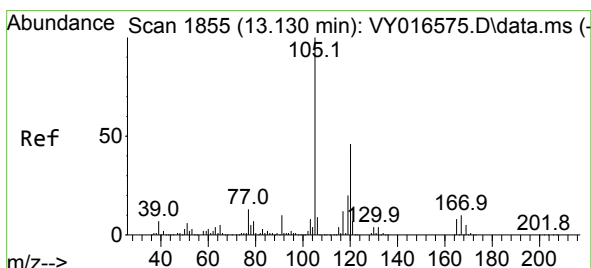
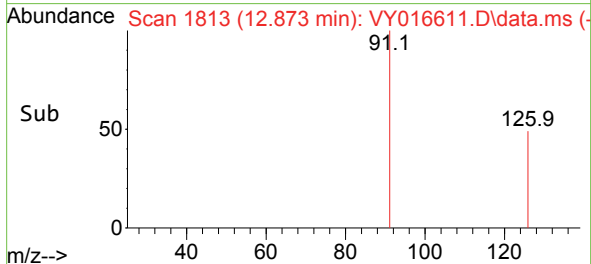
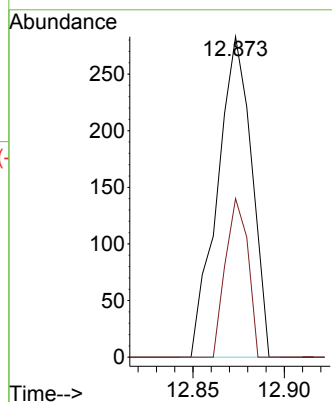
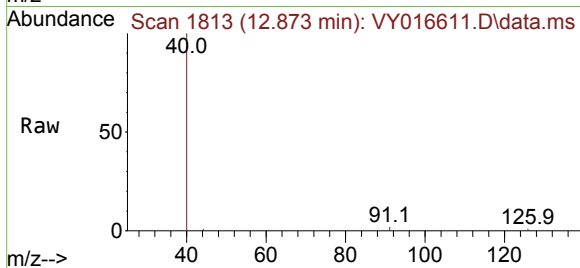
HR-03-112223RE

Tgt Ion: 91 Resp: 369

Ion Ratio Lower Upper

91 100

126 32.2 17.2 51.6



#84

1,2,4-Trimethylbenzene

Concen: 1.219 ug/l

RT: 13.142 min Scan# 1857

Delta R.T. 0.012 min

Lab File: VY016611.D

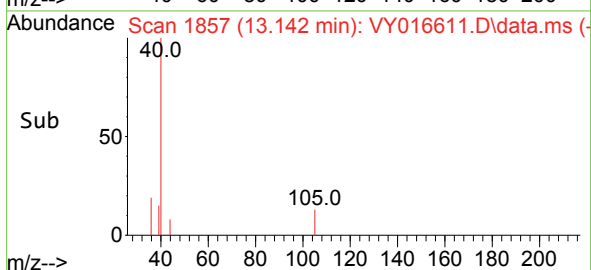
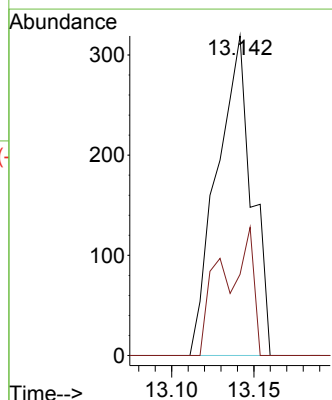
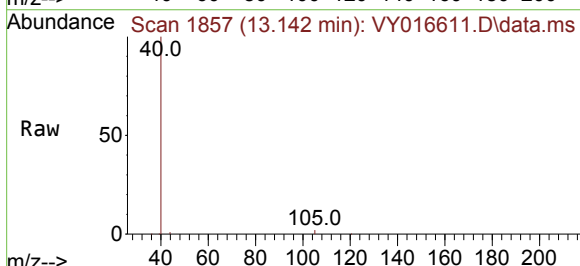
Acq: 06 Dec 2023 13:23

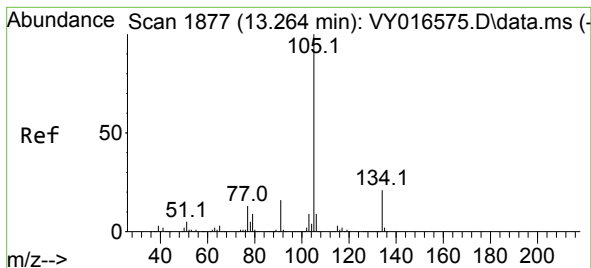
Tgt Ion: 105 Resp: 469

Ion Ratio Lower Upper

105 100

120 19.0 22.2 66.6#





#85

sec-Butylbenzene

Concen: 1.042 ug/l

RT: 13.270 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

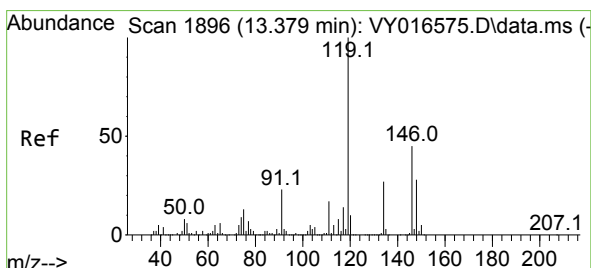
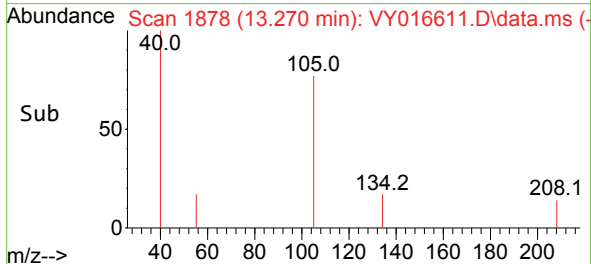
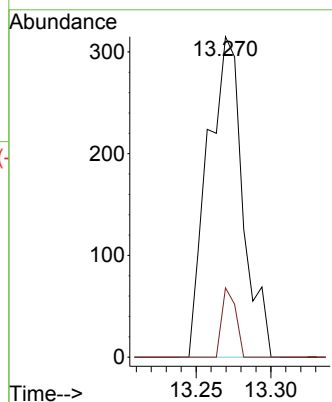
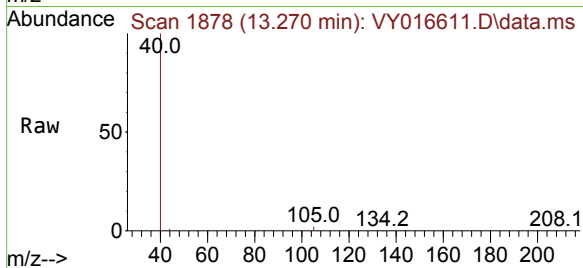
HR-03-112223RE

Tgt Ion:105 Resp: 515

Ion Ratio Lower Upper

105 100

134 8.5 10.2 30.6#



#86

p-Isopropyltoluene

Concen: 1.068 ug/l

RT: 13.385 min Scan# 1897

Delta R.T. 0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

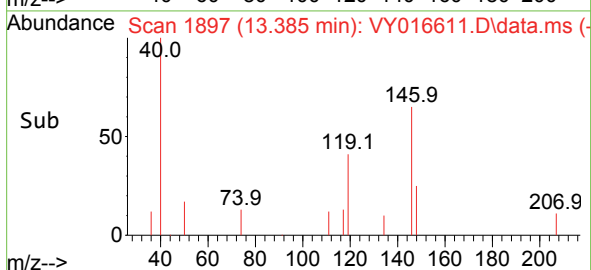
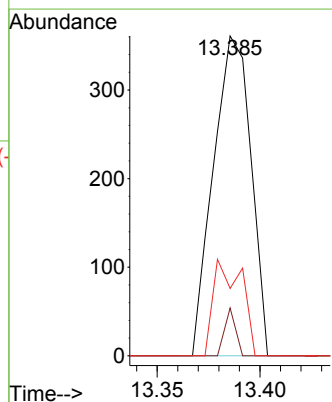
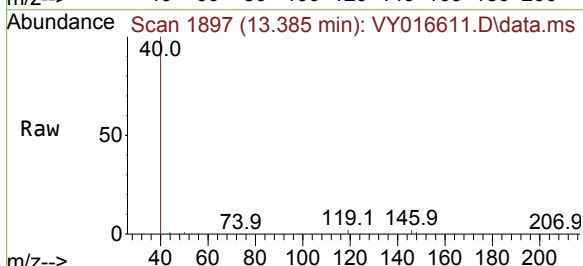
Tgt Ion:119 Resp: 458

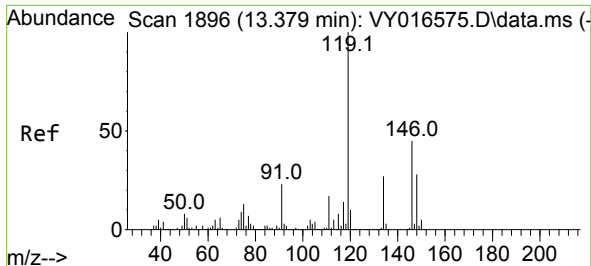
Ion Ratio Lower Upper

119 100

134 4.4 13.3 39.8#

91 22.7 12.4 37.4

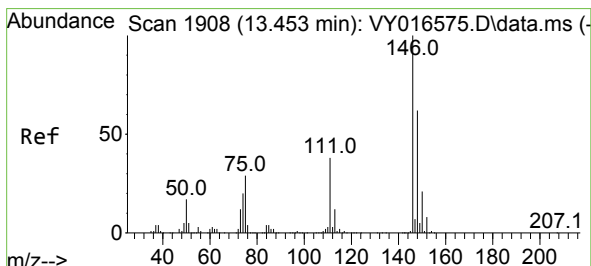
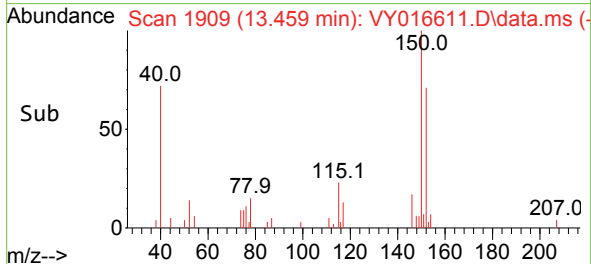
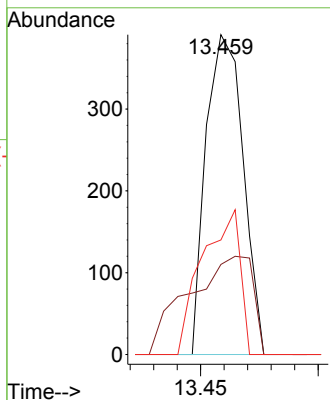
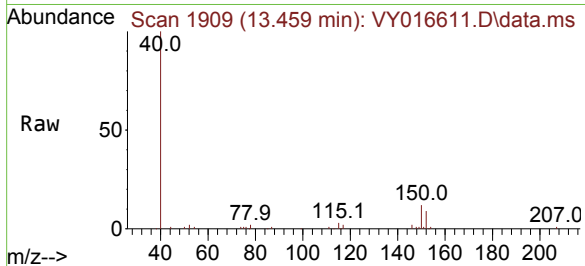




#87
1,3-Dichlorobenzene
Concen: 1.972 ug/l
RT: 13.459 min Scan# 1909
Delta R.T. 0.079 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

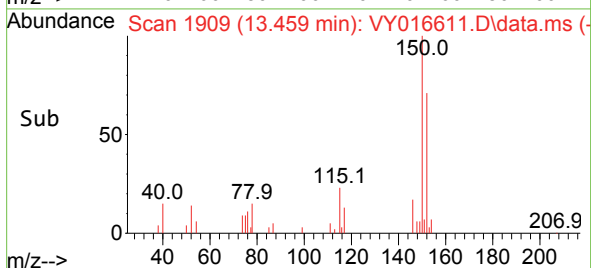
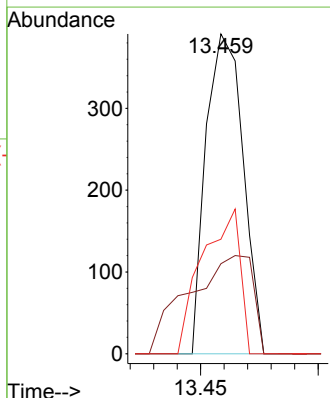
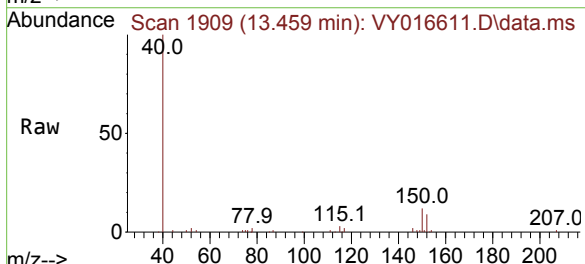
Instrument :
MSVOA_Y
ClientSampleId :
HR-03-112223RE

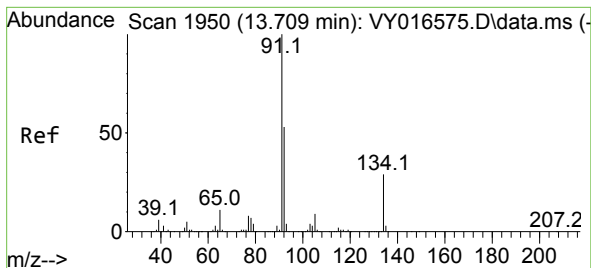
Tgt Ion:146 Resp: 430
Ion Ratio Lower Upper
146 100
111 53.3 19.4 58.2
148 46.3 31.9 95.5



#88
1,4-Dichlorobenzene
Concen: 2.010 ug/l
RT: 13.459 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY016611.D
Acq: 06 Dec 2023 13:23

Tgt Ion:146 Resp: 430
Ion Ratio Lower Upper
146 100
111 53.3 18.9 56.7
148 46.3 32.1 96.5





#89

n-Butylbenzene

Concen: 1.177 ug/l

RT: 13.715 min Scan# 1951

Delta R.T. 0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

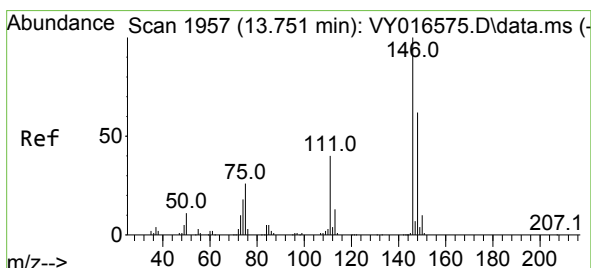
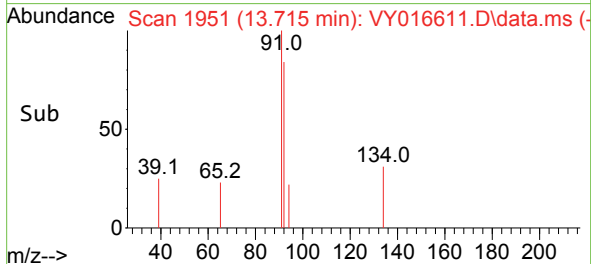
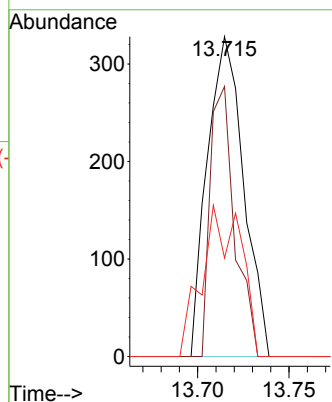
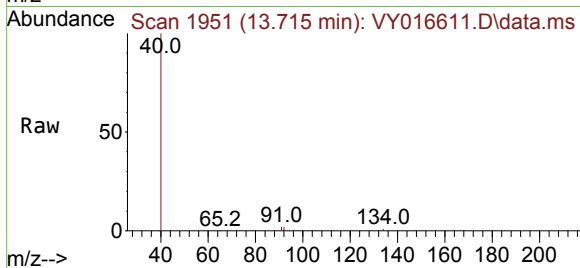
Instrument :

MSVOA_Y

ClientSampleId :

HR-03-112223RE

Tgt Ion: 91	Resp:	454
Ion Ratio	Lower	Upper
91	100	
92	56.8	25.4 76.0
134	50.9	12.6 37.6



#91

1,2-Dichlorobenzene

Concen: 2.036 ug/l

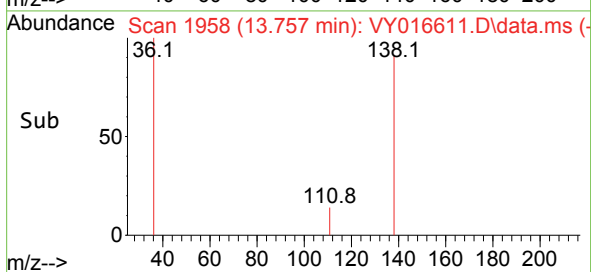
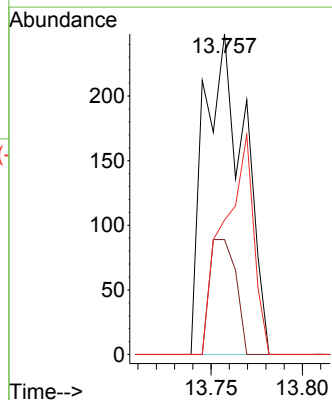
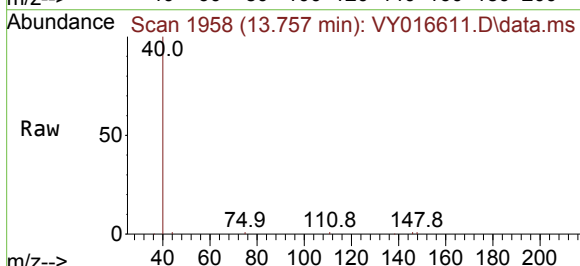
RT: 13.757 min Scan# 1958

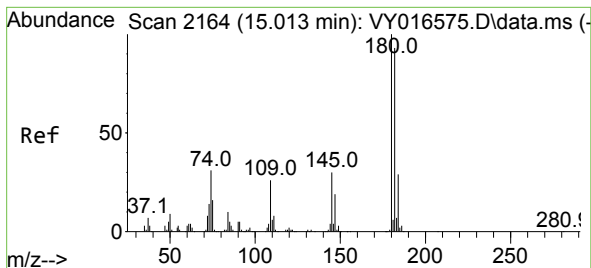
Delta R.T. 0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Tgt Ion: 146	Resp:	381
Ion Ratio	Lower	Upper
146	100	
111	23.4	19.7 59.0
148	50.9	32.0 96.2





#93

1,2,4-Trichlorobenzene

Concen: 3.285 ug/l

RT: 15.019 min Scan# 2164

Delta R.T. 0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

HR-03-112223RE

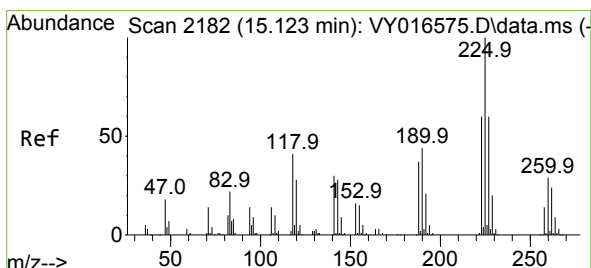
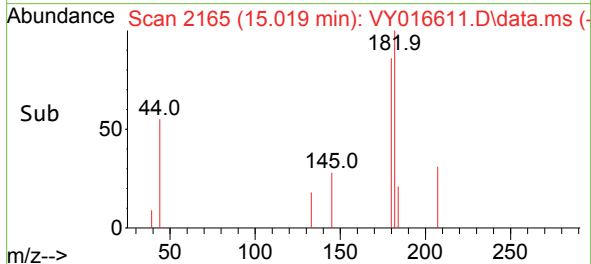
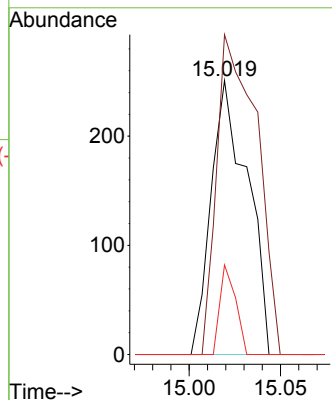
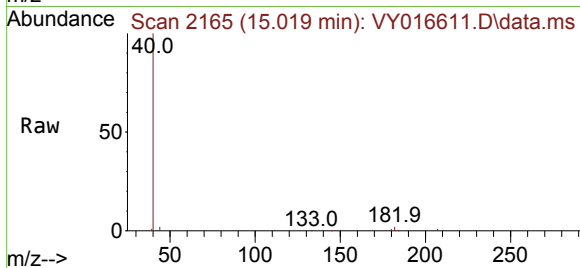
Tgt Ion:180 Resp: 347

Ion Ratio Lower Upper

180 100

182 129.1 47.0 141.2

145 14.1 14.5 43.5#



#94

Hexachlorobutadiene

Concen: 4.181 ug/l

RT: 15.129 min Scan# 2183

Delta R.T. 0.006 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

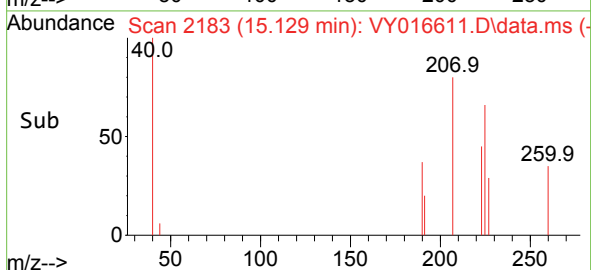
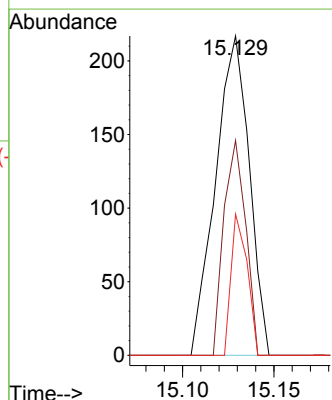
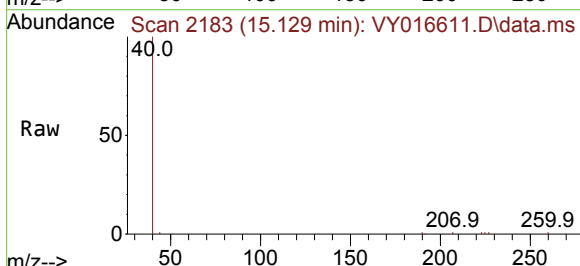
Tgt Ion:225 Resp: 279

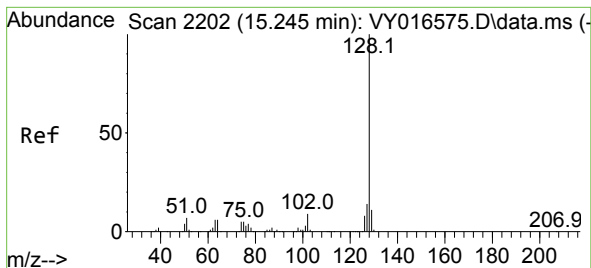
Ion Ratio Lower Upper

225 100

223 43.4 31.9 95.9

227 21.1 33.0 98.9#





#95

Naphthalene

Concen: 4.833 ug/l

RT: 15.257 min Scan# 2204

Delta R.T. 0.012 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Instrument :

MSVOA_Y

ClientSampleId :

HR-03-112223RE

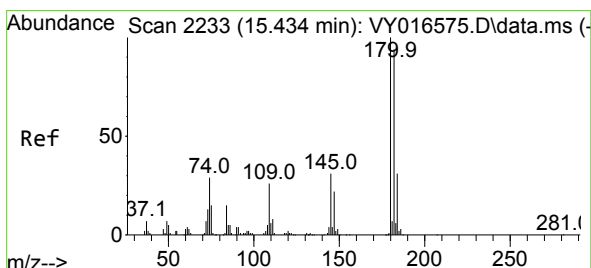
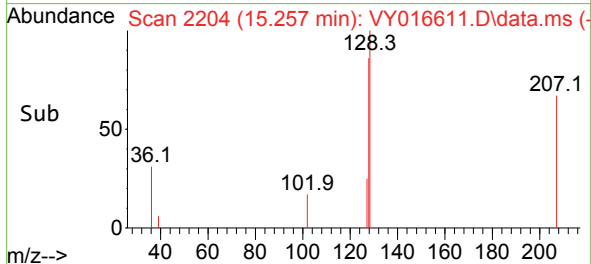
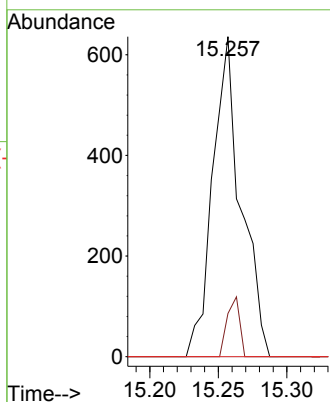
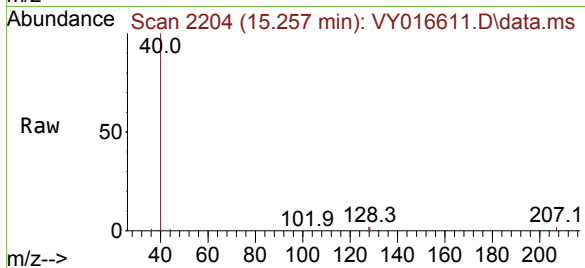
Tgt Ion:128 Resp: 915

Ion Ratio Lower Upper

128 100

127 8.2 10.8 16.2#

129 0.0 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 5.741 ug/l

RT: 15.446 min Scan# 2235

Delta R.T. 0.012 min

Lab File: VY016611.D

Acq: 06 Dec 2023 13:23

Tgt Ion:180 Resp: 495

Ion Ratio Lower Upper

180 100

182 90.5 47.3 141.8

145 5.1 15.4 46.2#

