

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042723\
 Data File : VX035360.D
 Acq On : 28 Apr 2023 03:03
 Operator : JC/MD
 Sample : 02522-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-9

Quant Time: Apr 28 05:42:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X042523W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 16:31:40 2023
 Response via : Initial Calibration

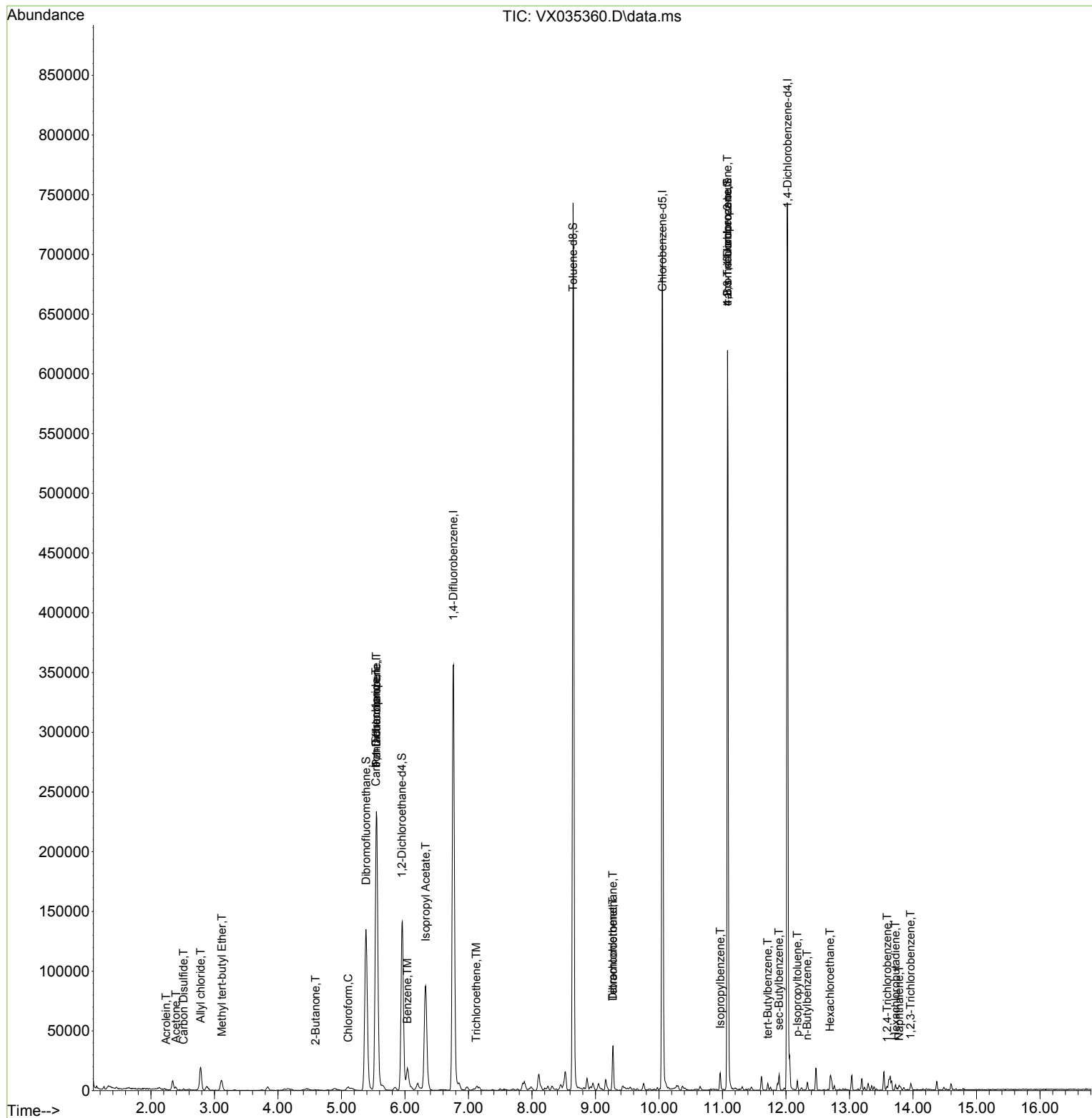
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	232494	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	377382	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	342956	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	163769	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	138814	49.490	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	98.980%
35) Dibromofluoromethane	5.385	113	118179	51.021	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.040%
50) Toluene-d8	8.647	98	444372	50.857	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	101.720%
62) 4-Bromofluorobenzene	11.079	95	169819	51.664	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.320%
Target Compounds						
					Qvalue	
13) Acrolein	2.240	56	151	0.301	ug/l #	38
14) Allyl chloride	2.782	41	5976	1.504	ug/l #	64
16) Acetone	2.392	43	2929	2.404	ug/l	99
17) Carbon Disulfide	2.514	76	1353	0.250	ug/l #	64
19) Methyl tert-butyl Ether	3.117	73	8445	1.090	ug/l #	85
25) 2-Butanone	4.593	43	915	0.515	ug/l #	86
30) Chloroform	5.105	83	2279	0.510	ug/l	92
36) 1,1-Dichloropropene	5.550	75	16134	4.461	ug/l #	51
38) Carbon Tetrachloride	5.544	117	22916	6.674	ug/l #	16
40) Benzene	6.038	78	21768	2.098	ug/l	97
43) Isopropyl Acetate	6.324	43	31175	5.617	ug/l #	8
44) Trichloroethene	7.123	130	1407	0.492	ug/l	84
60) Dibromochloromethane	9.275	129	6939	2.762	ug/l #	10
64) Tetrachloroethene	9.275	164	7038	2.680	ug/l	95
73) Isopropylbenzene	10.964	105	7701	0.643	ug/l	98
76) 1,2,3-Trichloropropane	11.079	75	81129	24.834	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	81129	80.433	ug/l #	8
83) tert-Butylbenzene	11.713	119	2078	0.205	ug/l	81
85) sec-Butylbenzene	11.890	105	7320	0.589	ug/l #	78
86) p-Isopropyltoluene	12.177	119	3153	0.298	ug/l	99
89) n-Butylbenzene	12.329	91	1821	0.204	ug/l	88
90) Hexachloroethane	12.695	117	4948	3.059	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.591	180	848	0.239	ug/l	93
94) Hexachlorobutadiene	13.725	225	880	0.564	ug/l	86
95) Naphthalene	13.780	128	3422	0.313	ug/l #	92
96) 1,2,3-Trichlorobenzene	13.963	180	833	0.233	ug/l #	1

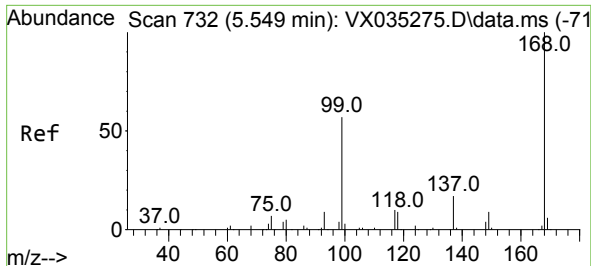
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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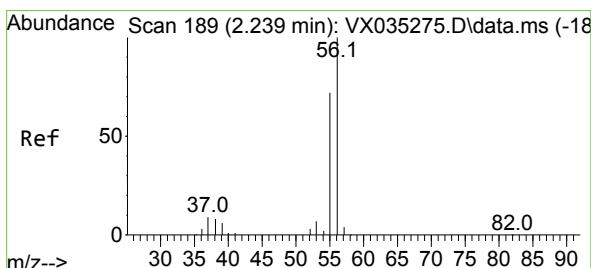
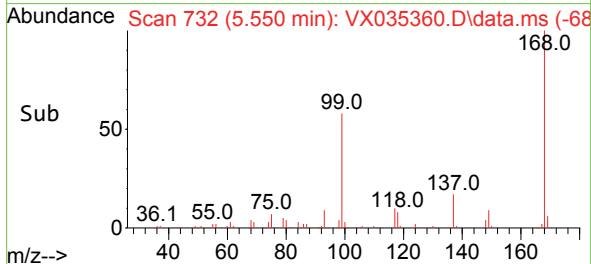
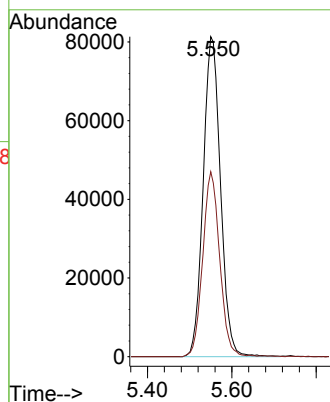
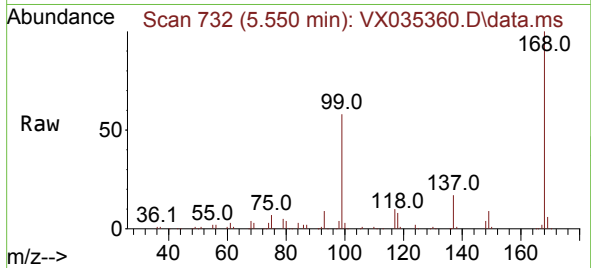




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

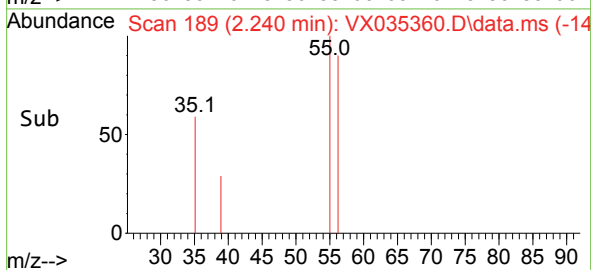
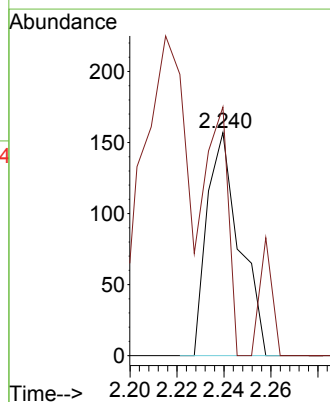
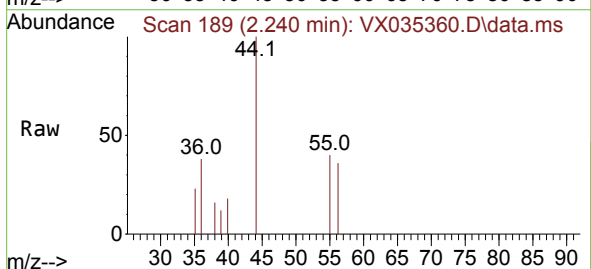
Instrument :
MSVOA_X
ClientSampleId :
MW-9

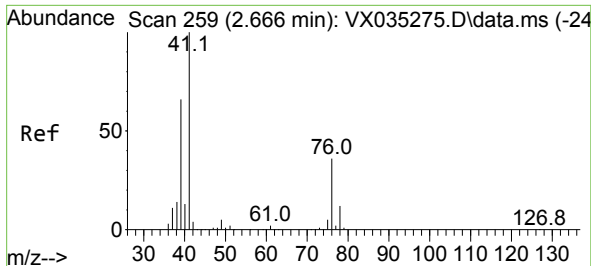
Tgt Ion:168 Resp: 232494
Ion Ratio Lower Upper
168 100
99 57.8 45.7 68.5



#13
Acrolein
Concen: 0.301 ug/l
RT: 2.240 min Scan# 189
Delta R.T. 0.001 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 56 Resp: 151
Ion Ratio Lower Upper
56 100
55 19.9 56.6 85.0#

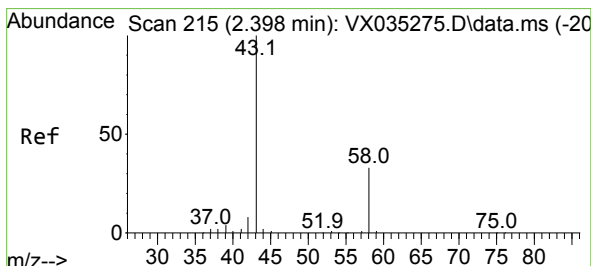
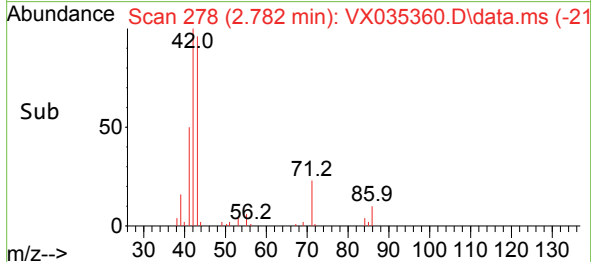
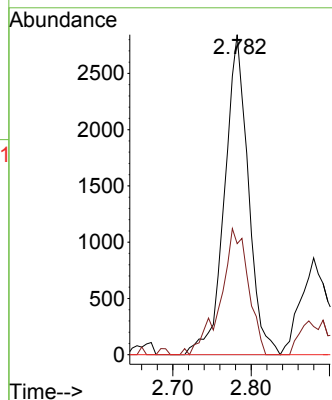
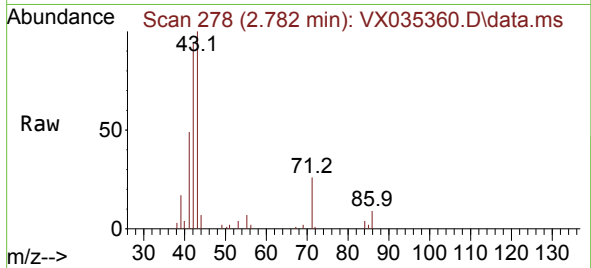




#14
Allyl chloride
Concen: 1.504 ug/l
RT: 2.782 min Scan# 214
Delta R.T. 0.116 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

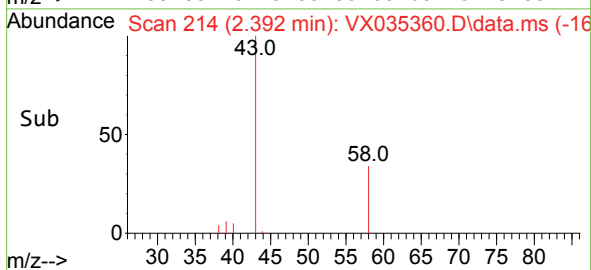
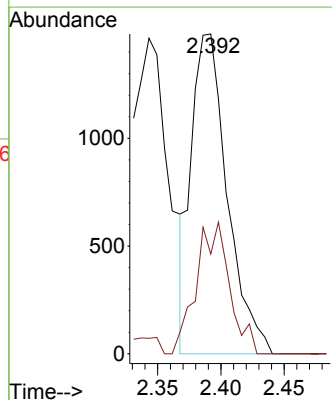
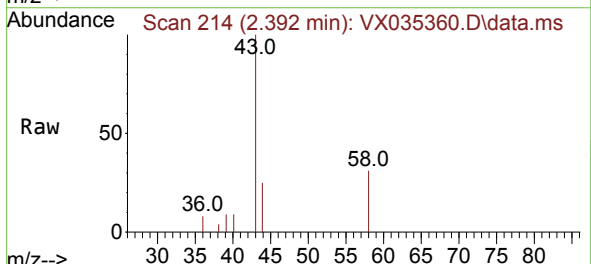
Instrument :
MSVOA_X
ClientSampleId :
MW-9

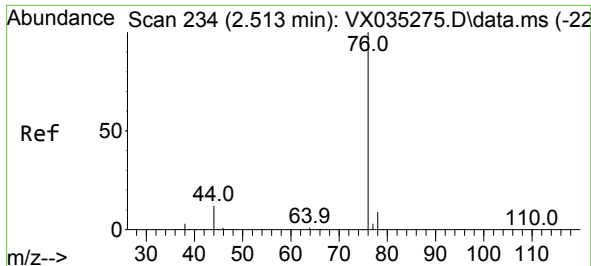
Tgt Ion: 41 Resp: 5976
Ion Ratio Lower Upper
41 100
39 46.1 52.4 78.6#
76 0.0 26.0 39.0#



#16
Acetone
Concen: 2.404 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 43 Resp: 2929
Ion Ratio Lower Upper
43 100
58 31.2 24.7 37.1

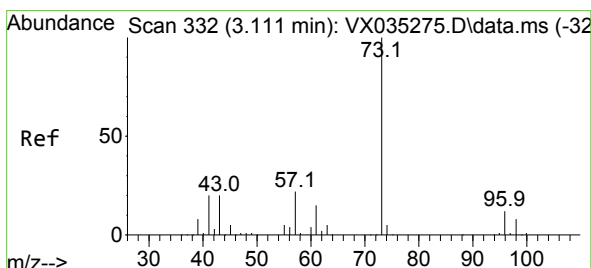
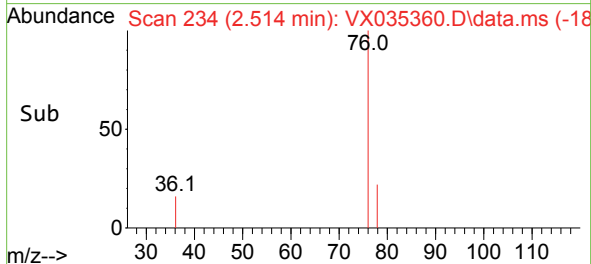
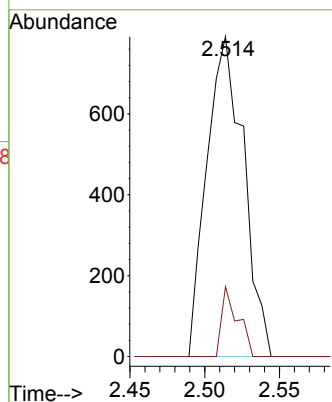
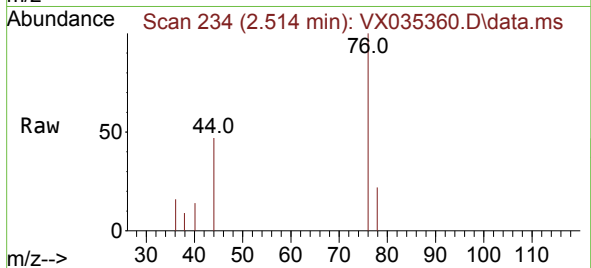




#17
Carbon Disulfide
Concen: 0.250 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.001 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

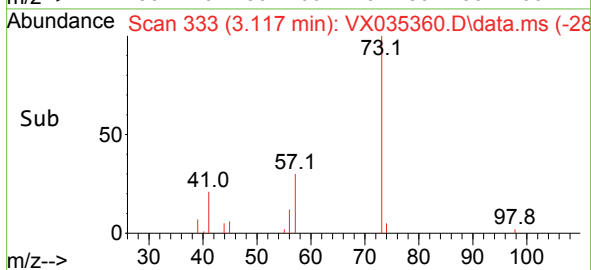
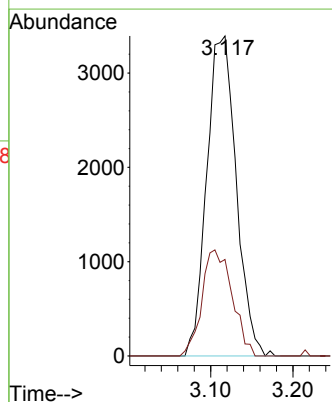
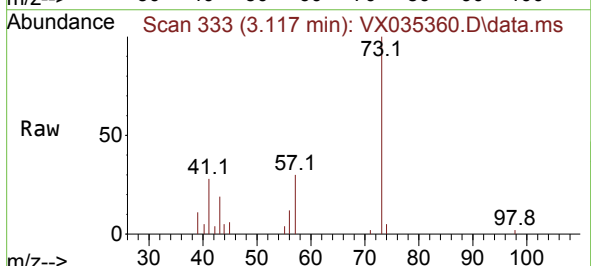
Instrument :
MSVOA_X
ClientSampleId :
MW-9

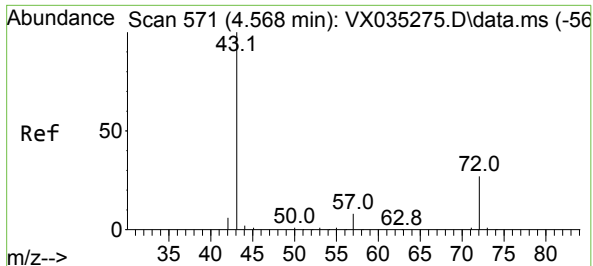
Tgt Ion: 76 Resp: 1353
Ion Ratio Lower Upper
76 100
78 21.9 7.2 10.8#



#19
Methyl tert-butyl Ether
Concen: 1.090 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 73 Resp: 8445
Ion Ratio Lower Upper
73 100
57 30.2 18.5 27.7#

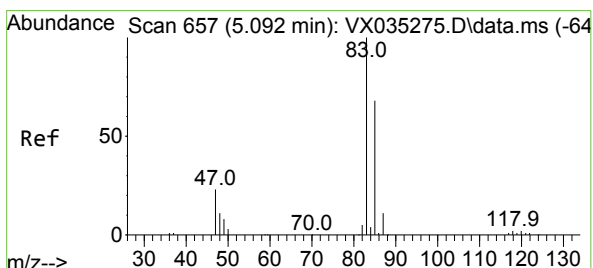
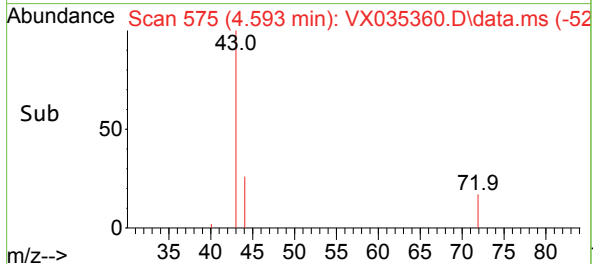
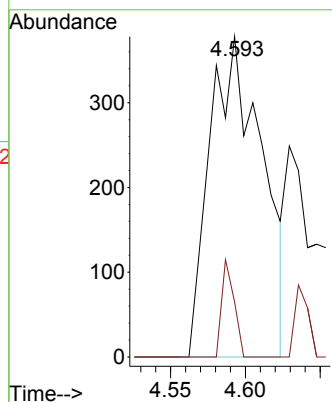
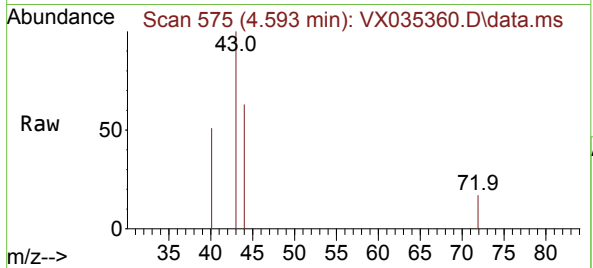




#25
2-Butanone
Concen: 0.515 ug/l
RT: 4.593 min Scan# 51
Delta R.T. 0.025 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

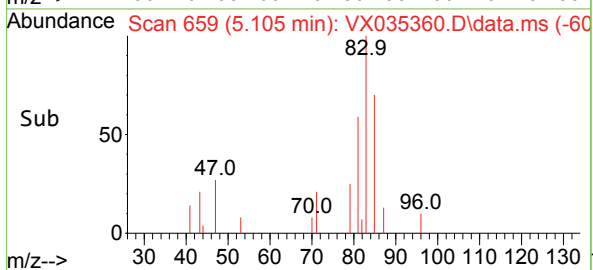
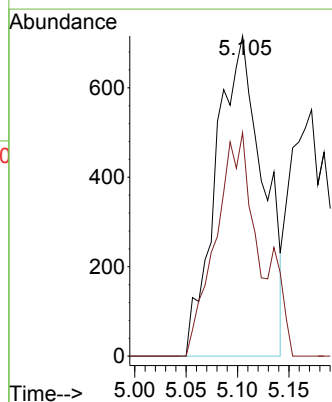
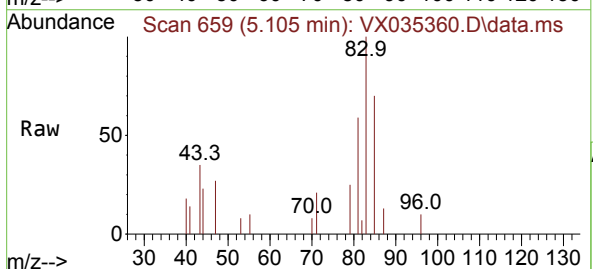
Instrument :
MSVOA_X
ClientSampleId :
MW-9

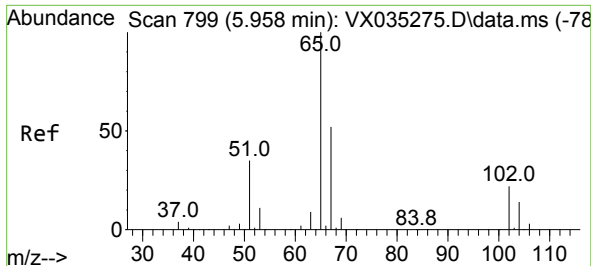
Tgt Ion: 43 Resp: 915
Ion Ratio Lower Upper
43 100
72 17.2 19.3 28.9#



#30
Chloroform
Concen: 0.510 ug/l
RT: 5.105 min Scan# 659
Delta R.T. 0.013 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 83 Resp: 2279
Ion Ratio Lower Upper
83 100
85 69.8 50.6 76.0





#33

1,2-Dichloroethane-d4

Concen: 49.490 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

Instrument :

MSVOA_X

ClientSampleId :

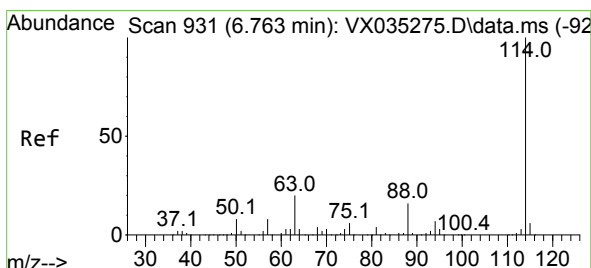
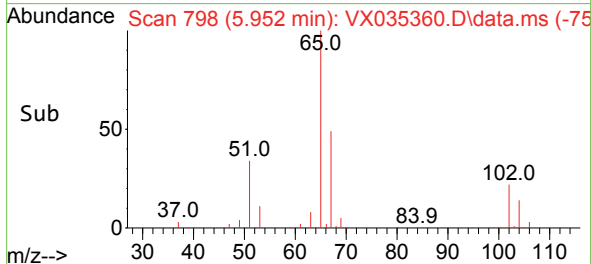
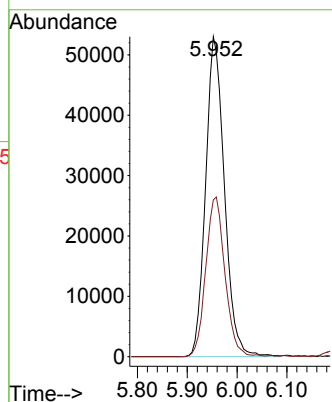
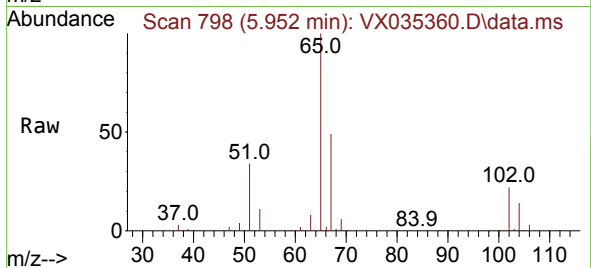
MW-9

Tgt Ion: 65 Resp: 138814

Ion Ratio Lower Upper

65 100

67 51.0 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

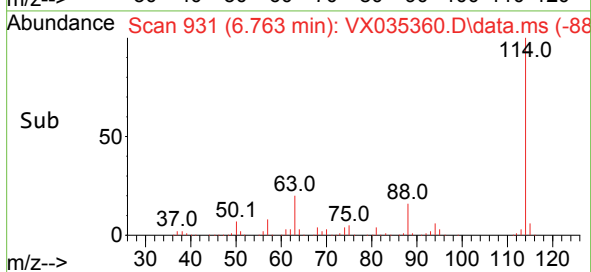
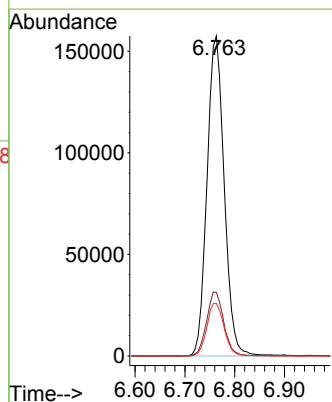
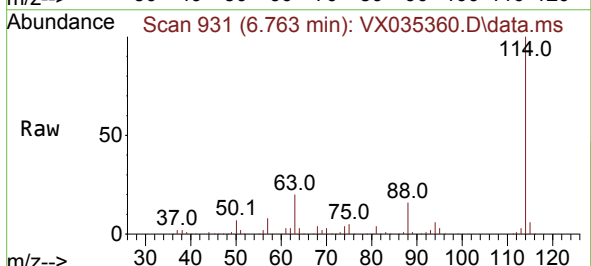
Tgt Ion: 114 Resp: 377382

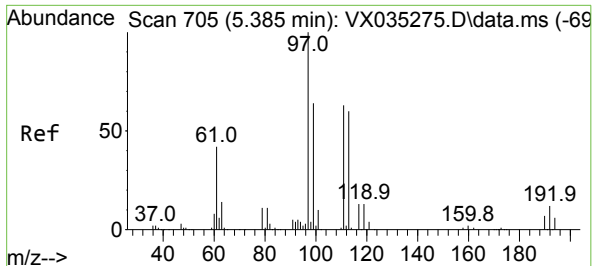
Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.2

88 16.5 0.0 33.2

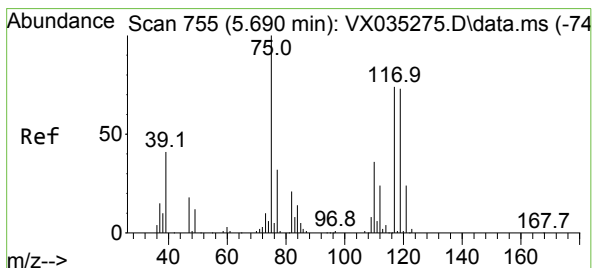
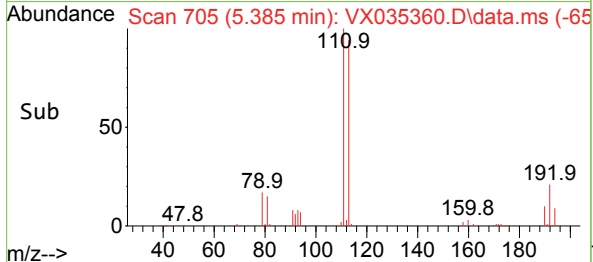
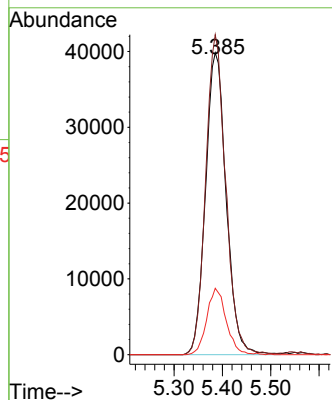
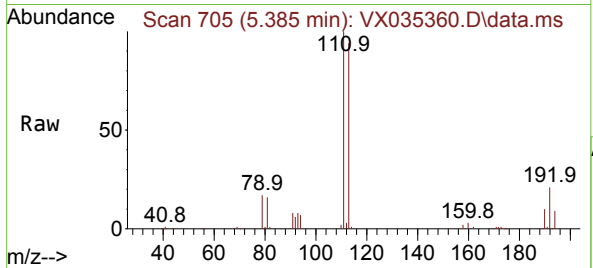




#35
Dibromofluoromethane
Concen: 51.021 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

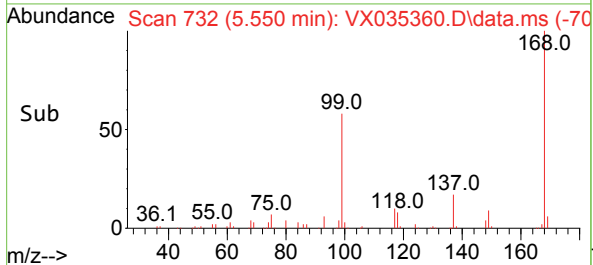
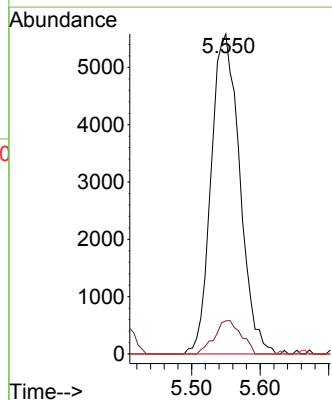
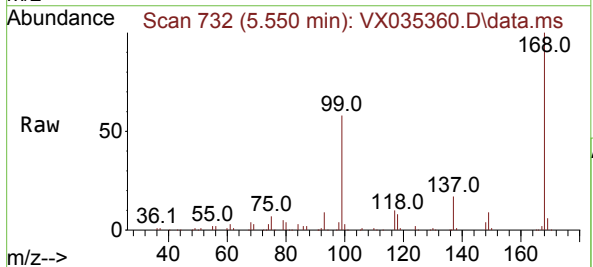
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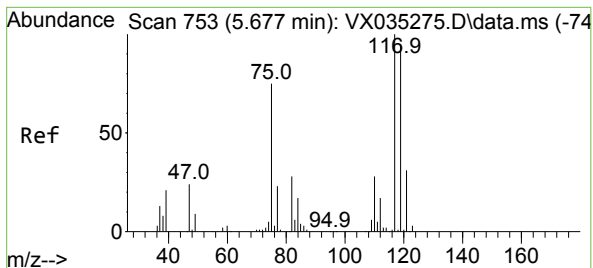
Tgt Ion:113 Resp: 118179
Ion Ratio Lower Upper
113 100
111 102.6 83.7 125.5
192 20.8 15.4 23.2



#36
1,1-Dichloropropene
Concen: 4.461 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.140 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 75 Resp: 16134
Ion Ratio Lower Upper
75 100
110 9.7 17.5 52.5#
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.674 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.133 min

Lab File: VX035360.D

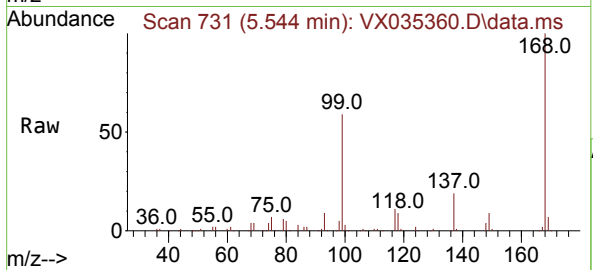
Acq: 28 Apr 2023 03:03

Instrument :

MSVOA_X

ClientSampleId :

MW-9



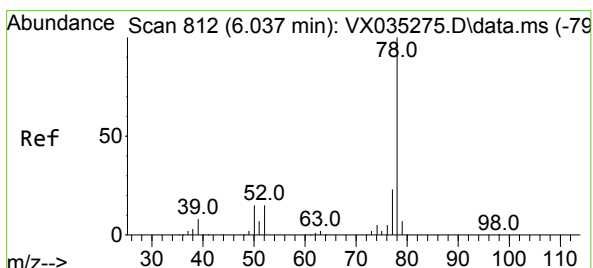
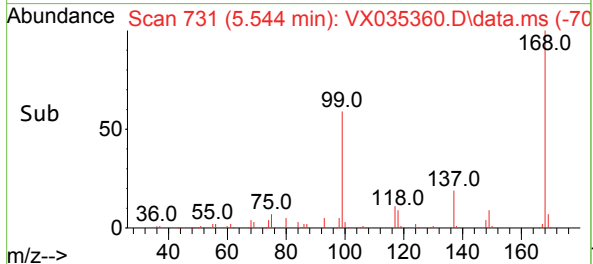
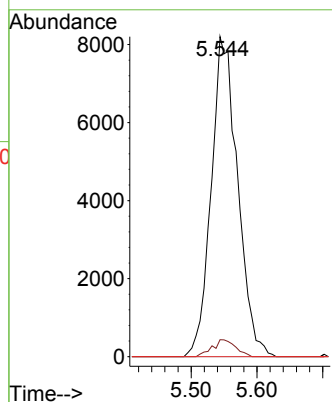
Tgt Ion:117 Resp: 22916

Ion Ratio Lower Upper

117 100

119 5.3 76.6 114.8#

121 0.0 23.8 35.6#



#40

Benzene

Concen: 2.098 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.001 min

Lab File: VX035360.D

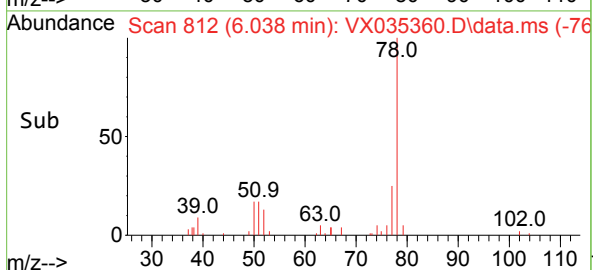
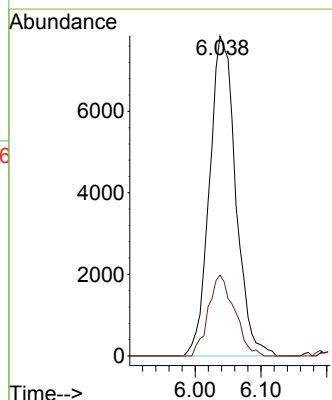
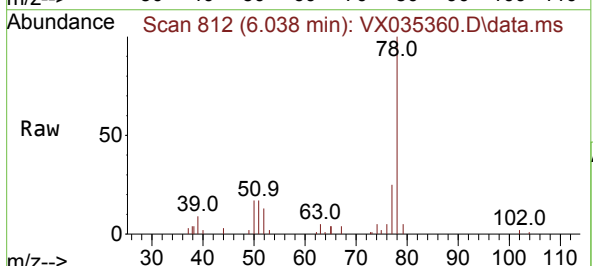
Acq: 28 Apr 2023 03:03

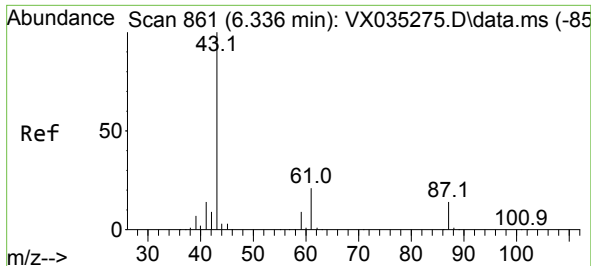
Tgt Ion: 78 Resp: 21768

Ion Ratio Lower Upper

78 100

77 25.2 19.0 28.4





#43

Isopropyl Acetate

Concen: 5.617 ug/l

RT: 6.324 min Scan# 8

Delta R.T. -0.012 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

Instrument :

MSVOA_X

ClientSampleId :

MW-9

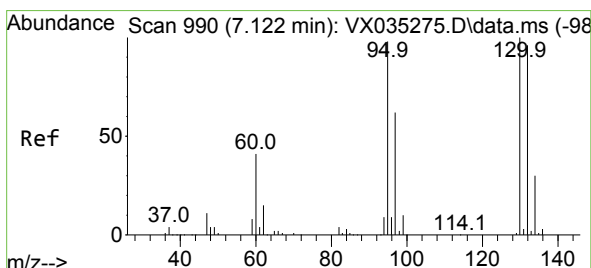
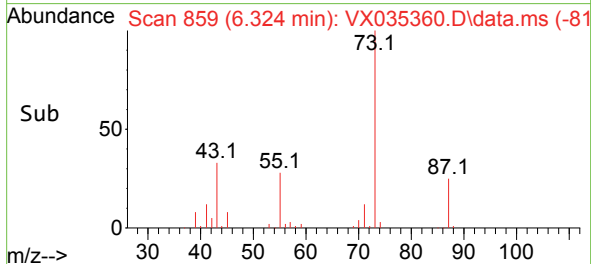
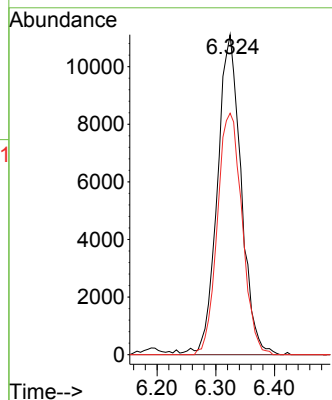
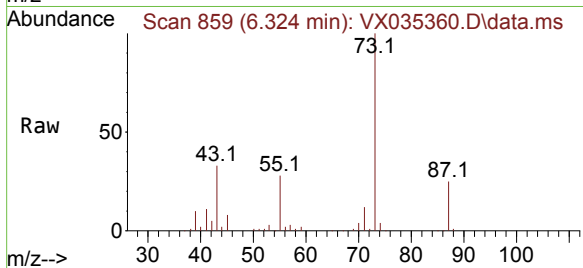
Tgt Ion: 43 Resp: 31175

Ion Ratio Lower Upper

43 100

61 0.0 15.2 22.8#

87 78.6 9.8 14.8#



#44

Trichloroethene

Concen: 0.492 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.001 min

Lab File: VX035360.D

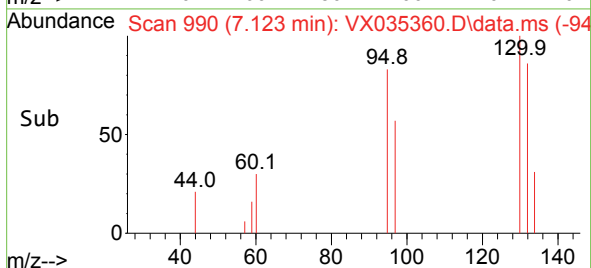
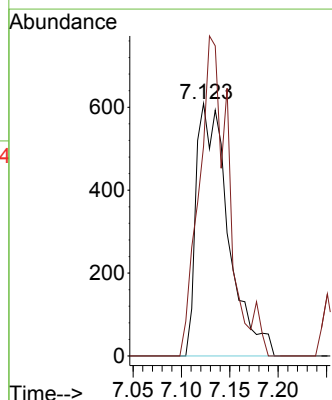
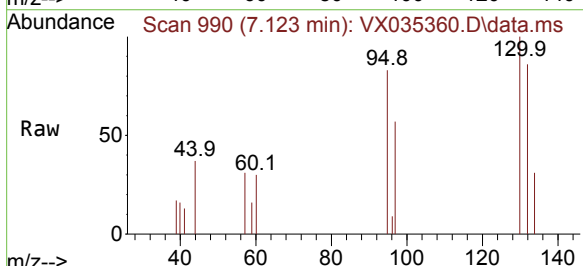
Acq: 28 Apr 2023 03:03

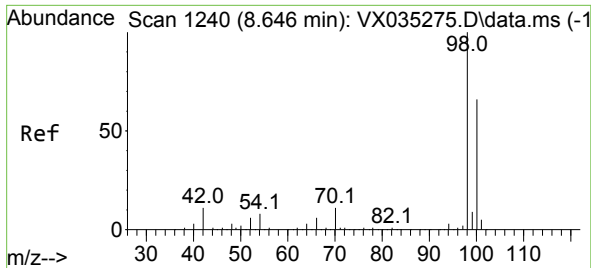
Tgt Ion:130 Resp: 1407

Ion Ratio Lower Upper

130 100

95 83.1 0.0 198.4

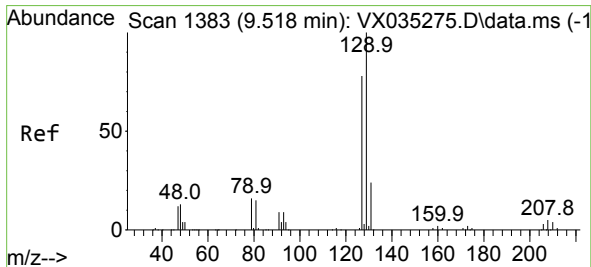
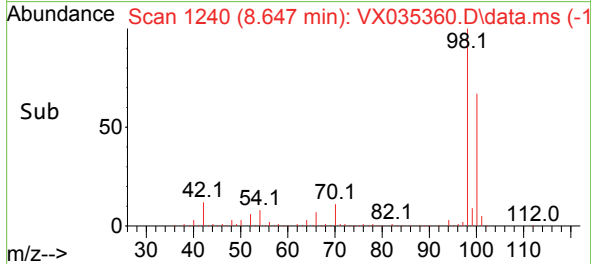
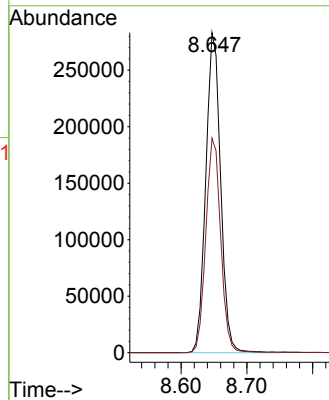
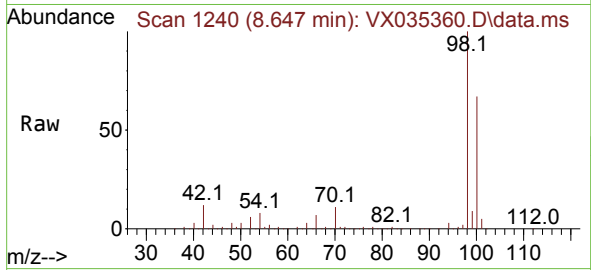




#50
Toluene-d8
Concen: 50.857 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

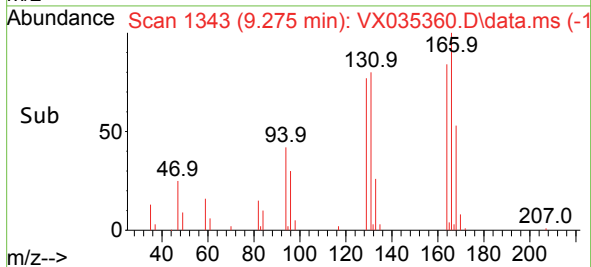
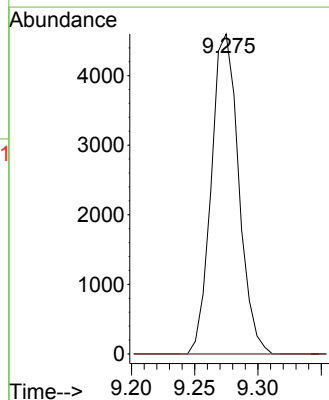
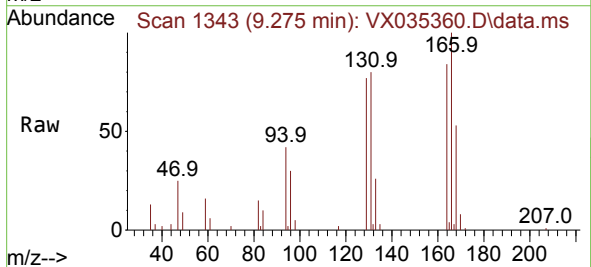
Instrument :
MSVOA_X
ClientSampleId :
MW-9

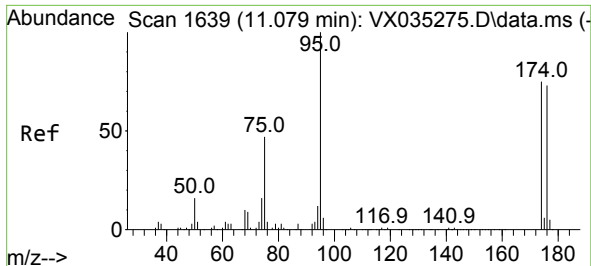
Tgt Ion: 98 Resp: 444372
Ion Ratio Lower Upper
98 100
100 67.4 52.5 78.7



#60
Dibromochloromethane
Concen: 2.762 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.243 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 129 Resp: 6939
Ion Ratio Lower Upper
129 100
127 0.0 39.0 117.0#

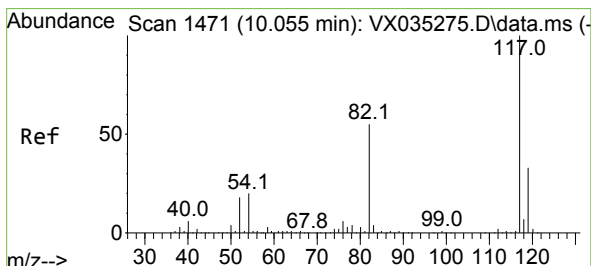
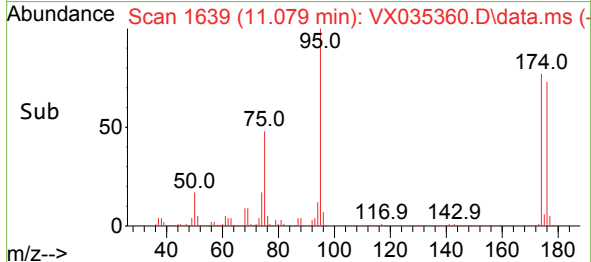
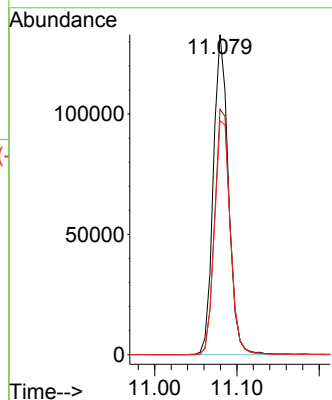
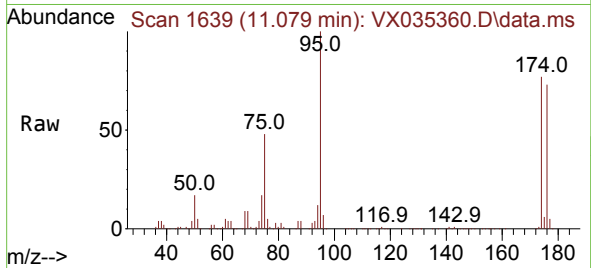




#62
4-Bromofluorobenzene
Concen: 51.664 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

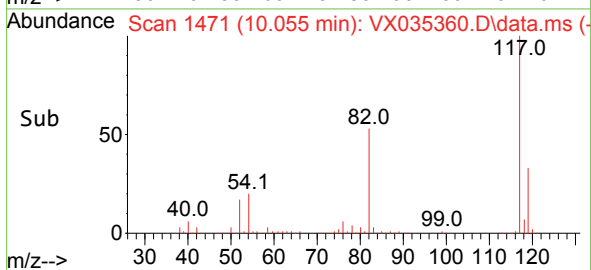
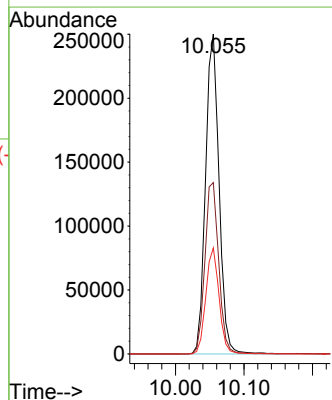
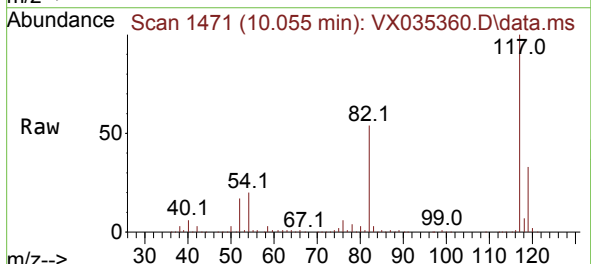
Instrument :
MSVOA_X
ClientSampleId :
MW-9

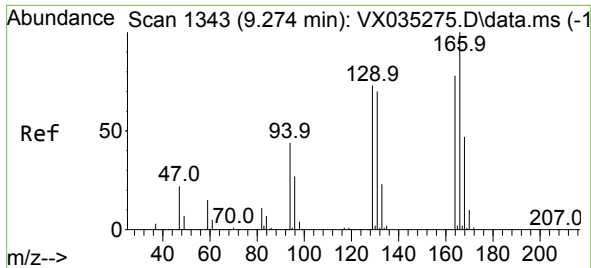
Tgt Ion: 95 Resp: 169819
Ion Ratio Lower Upper
95 100
174 79.2 0.0 147.4
176 76.8 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 117 Resp: 342956
Ion Ratio Lower Upper
117 100
82 53.5 45.0 67.4
119 33.2 26.0 39.0

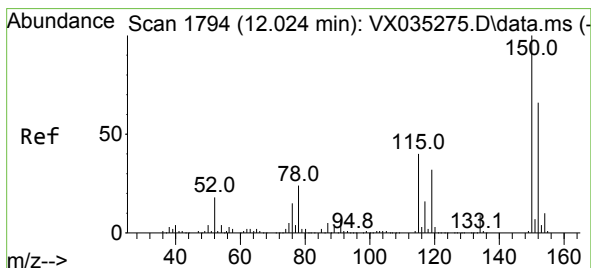
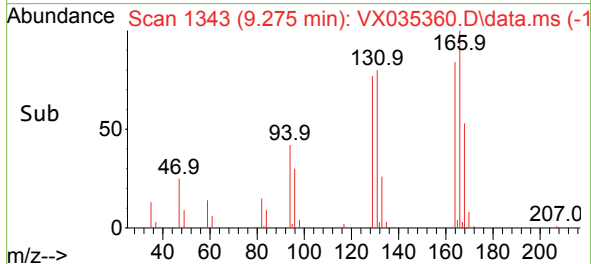
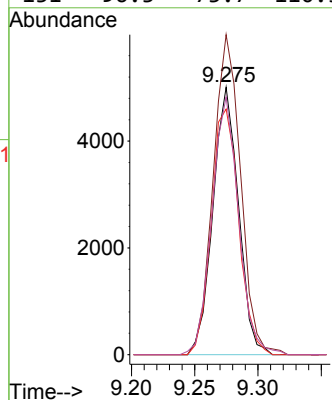
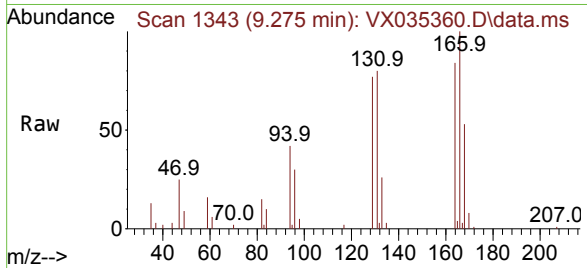




#64
Tetrachloroethene
Concen: 2.680 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

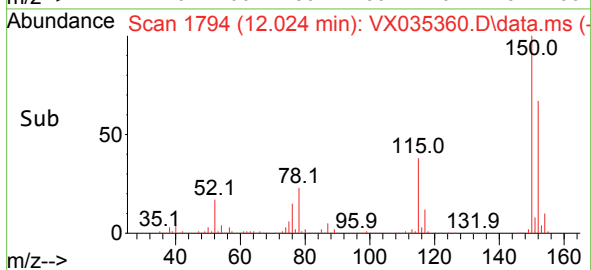
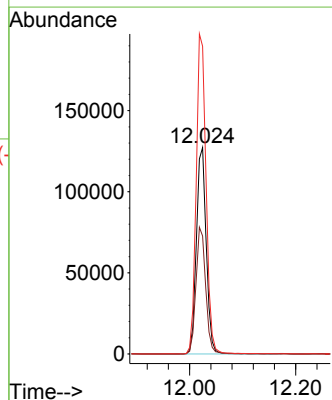
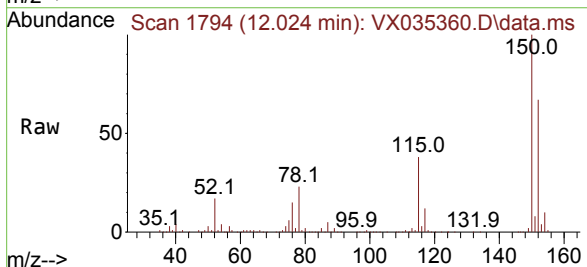
Instrument :
MSVOA_X
ClientSampleId :
MW-9

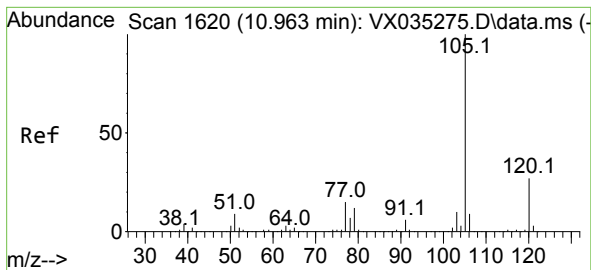
Tgt Ion:164 Resp: 7038
Ion Ratio Lower Upper
164 100
166 119.7 102.7 154.1
129 91.8 75.6 113.4
131 96.3 73.7 110.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion:152 Resp: 163769
Ion Ratio Lower Upper
152 100
115 60.7 45.0 135.0
150 155.0 0.0 352.4





#73

Isopropylbenzene

Concen: 0.643 ug/l

RT: 10.964 min Scan# 1620

Delta R.T. 0.001 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

Instrument :

MSVOA_X

ClientSampleId :

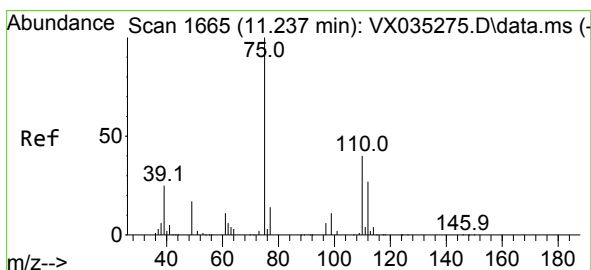
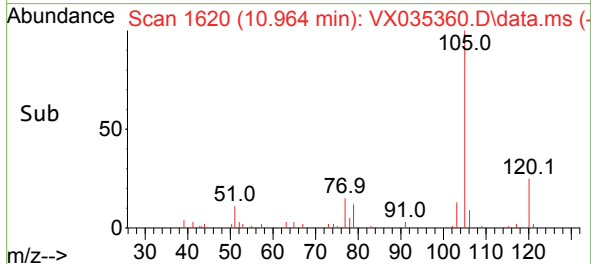
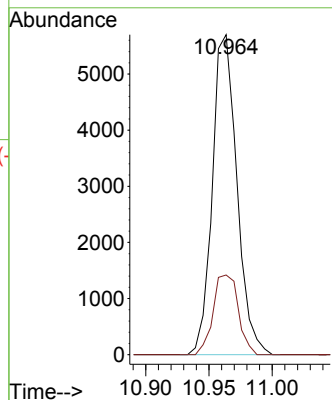
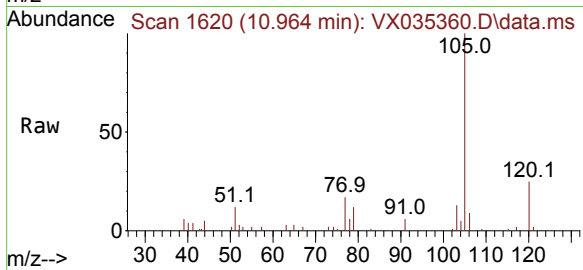
MW-9

Tgt Ion:105 Resp: 7701

Ion Ratio Lower Upper

105 100

120 25.5 13.3 39.9



#76

1,2,3-Trichloropropane

Concen: 24.834 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX035360.D

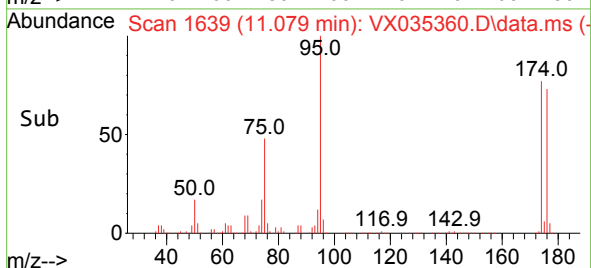
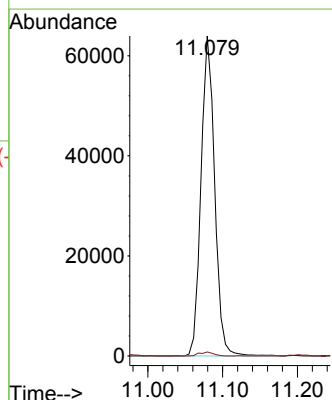
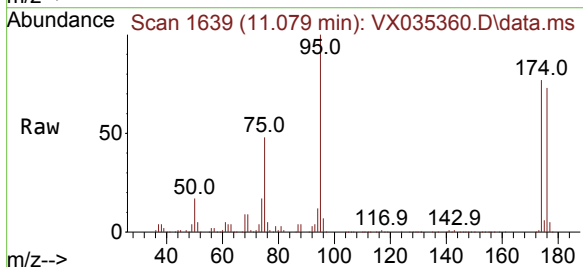
Acq: 28 Apr 2023 03:03

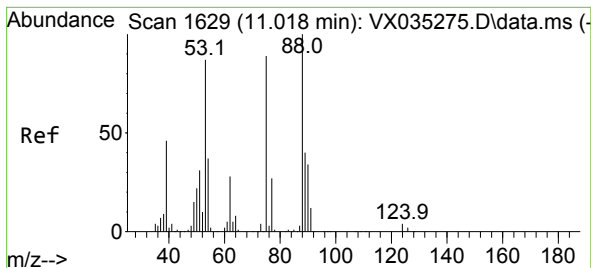
Tgt Ion: 75 Resp: 81129

Ion Ratio Lower Upper

75 100

77 1.3 21.6 64.8#

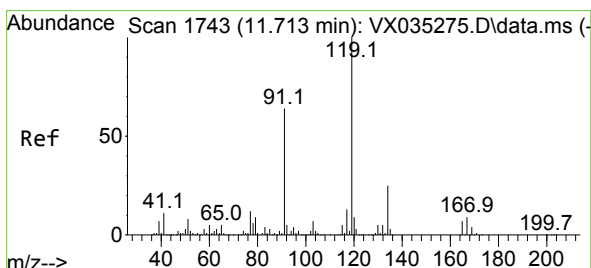
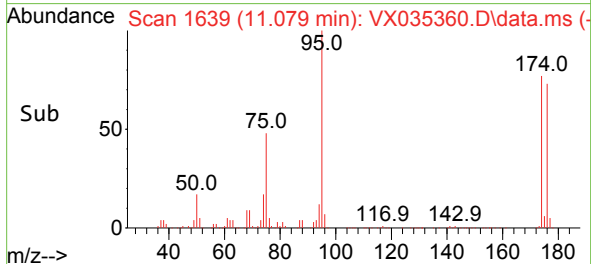
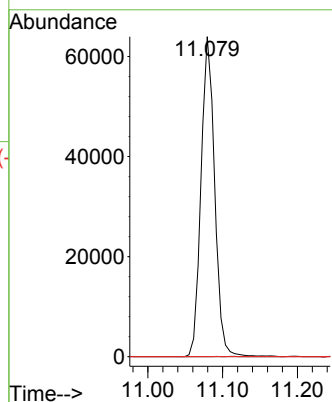
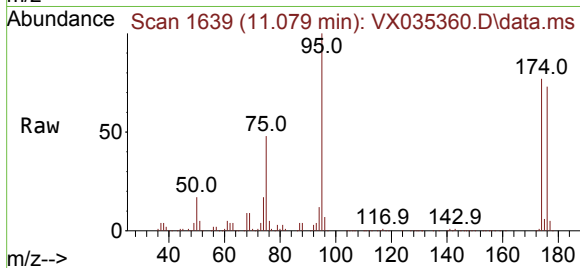




#81
trans-1,4-Dichloro-2-butene
Concen: 80.433 ug/l
RT: 11.079 min Scan# 1629
Delta R.T. 0.061 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

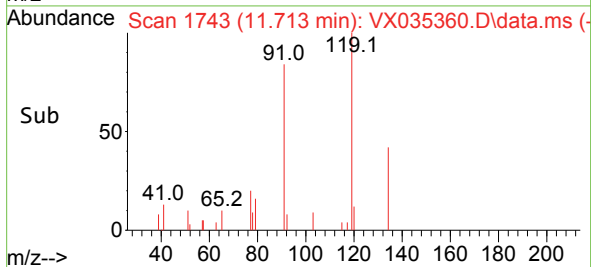
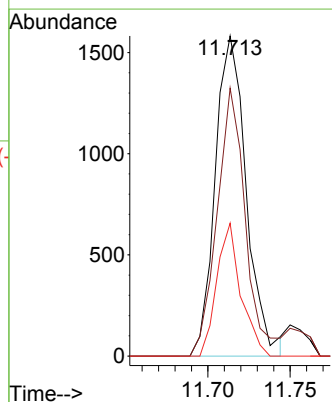
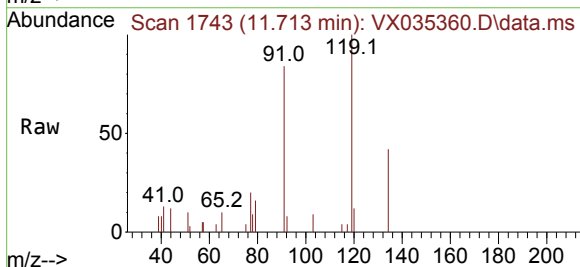
Instrument :
MSVOA_X
ClientSampleId :
MW-9

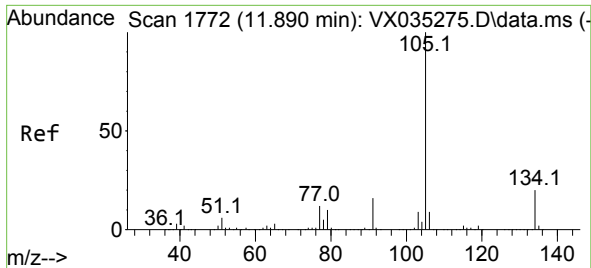
Tgt Ion: 75 Resp: 81129
Ion Ratio Lower Upper
75 100
53 0.0 82.6 124.0#
89 0.0 36.9 55.3#



#83
tert-Butylbenzene
Concen: 0.205 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX035360.D
Acq: 28 Apr 2023 03:03

Tgt Ion: 119 Resp: 2078
Ion Ratio Lower Upper
119 100
91 76.7 30.6 92.0
134 32.2 11.8 35.4

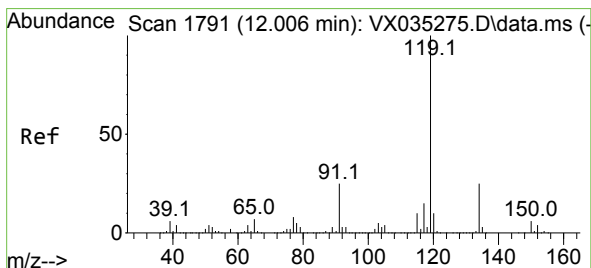
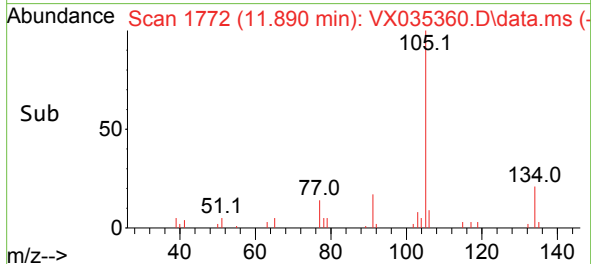
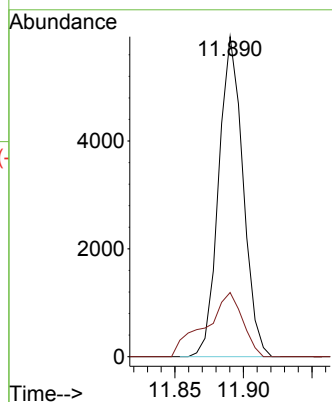
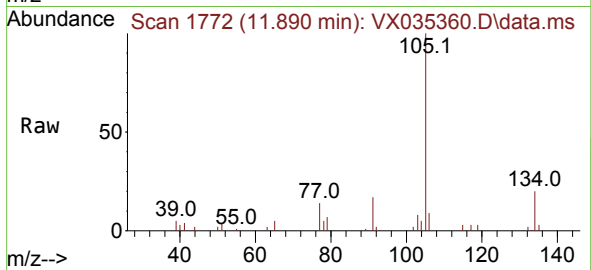




#85
 sec-Butylbenzene
 Concen: 0.589 ug/l
 RT: 11.890 min Scan# 1181
 Delta R.T. 0.000 min
 Lab File: VX035360.D
 Acq: 28 Apr 2023 03:03

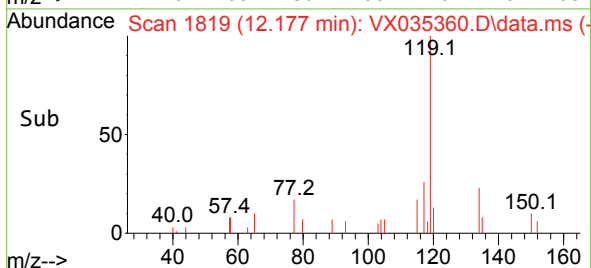
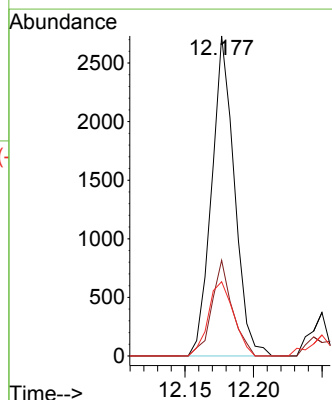
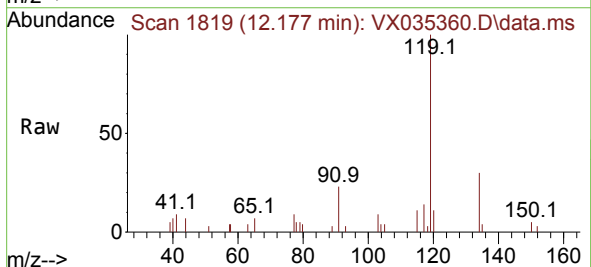
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-9

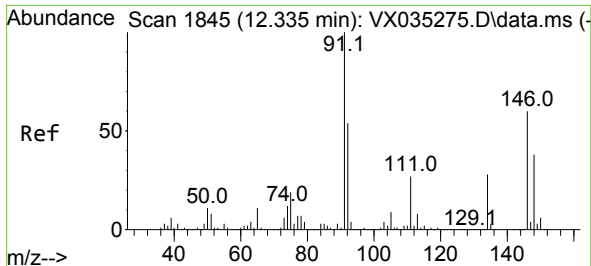
Tgt Ion:105 Resp: 7320
 Ion Ratio Lower Upper
 105 100
 134 30.6 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 0.298 ug/l
 RT: 12.177 min Scan# 1819
 Delta R.T. 0.171 min
 Lab File: VX035360.D
 Acq: 28 Apr 2023 03:03

Tgt Ion:119 Resp: 3153
 Ion Ratio Lower Upper
 119 100
 134 27.0 13.2 39.5
 91 25.9 12.9 38.7





#89

n-Butylbenzene

Concen: 0.204 ug/l

RT: 12.329 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

Instrument :

MSVOA_X

ClientSampleId :

MW-9

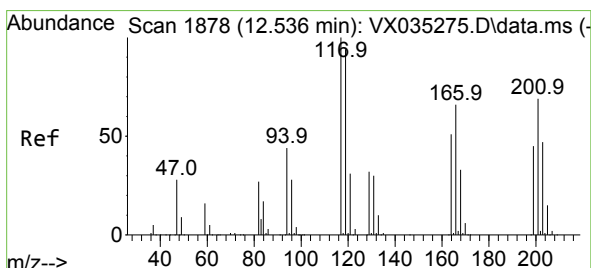
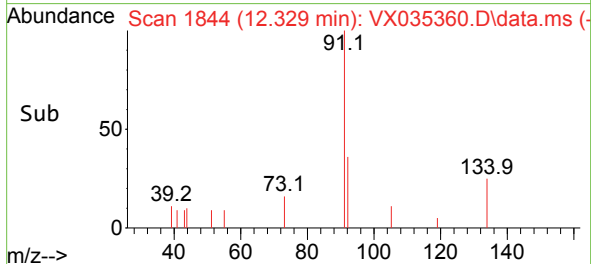
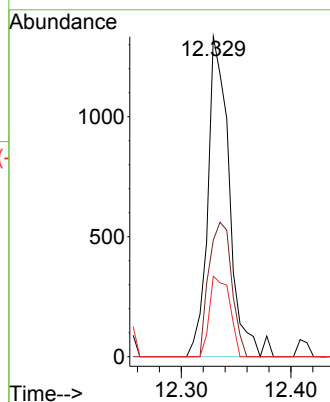
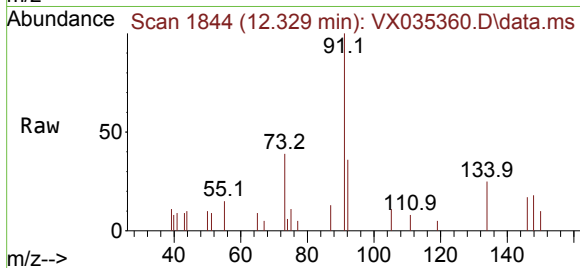
Tgt Ion: 91 Resp: 1821

Ion Ratio Lower Upper

91 100

92 44.4 27.7 83.0

134 23.6 13.0 38.9



#90

Hexachloroethane

Concen: 3.059 ug/l

RT: 12.695 min Scan# 1904

Delta R.T. 0.159 min

Lab File: VX035360.D

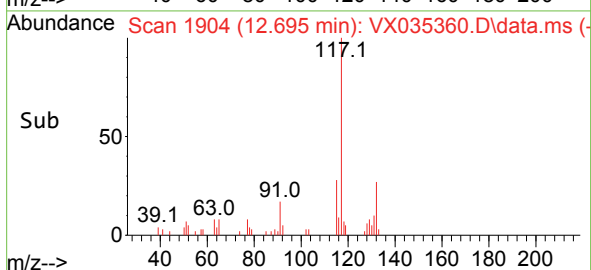
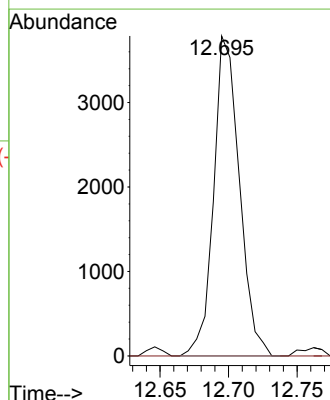
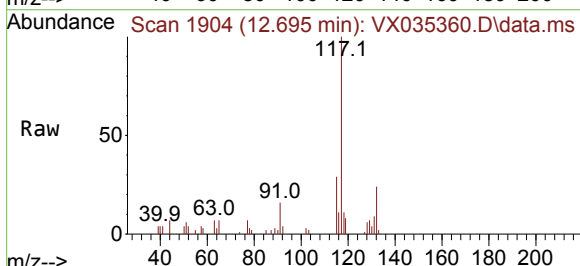
Acq: 28 Apr 2023 03:03

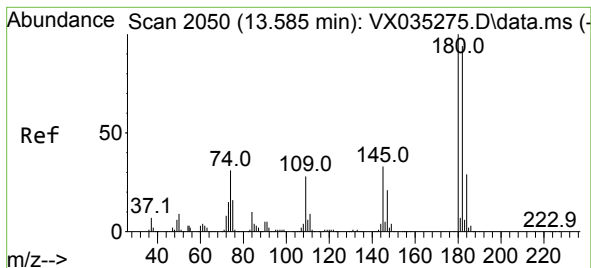
Tgt Ion: 117 Resp: 4948

Ion Ratio Lower Upper

117 100

201 0.0 34.4 103.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.239 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

Instrument :

MSVOA_X

ClientSampleId :

MW-9

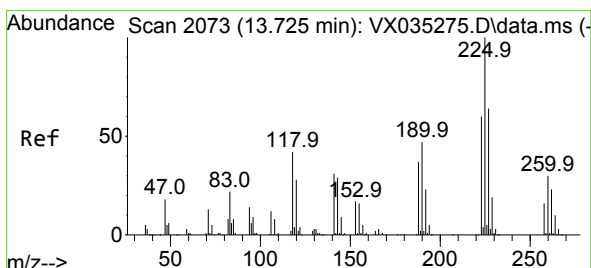
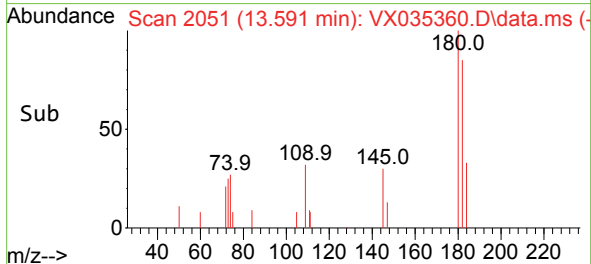
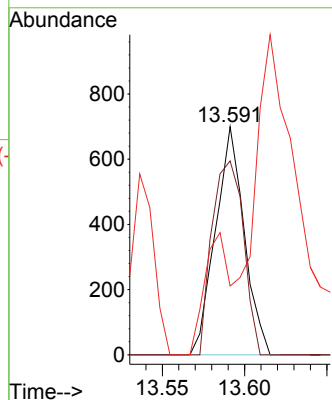
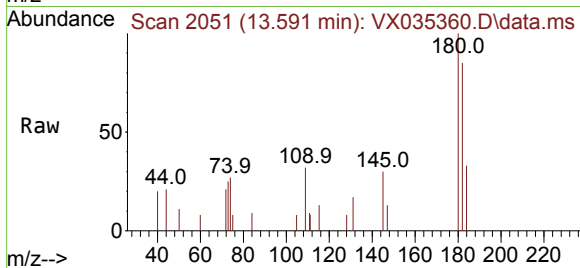
Tgt Ion:180 Resp: 848

Ion Ratio Lower Upper

180 100

182 92.9 47.0 141.0

145 45.3 15.9 47.7



#94

Hexachlorobutadiene

Concen: 0.564 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

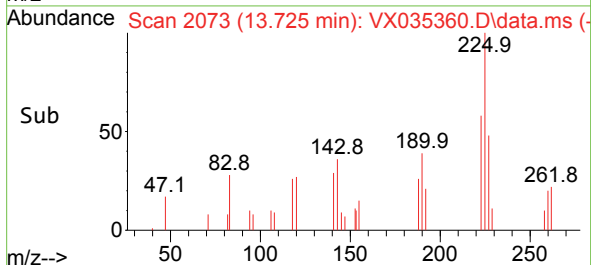
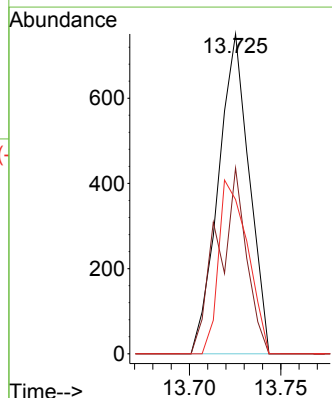
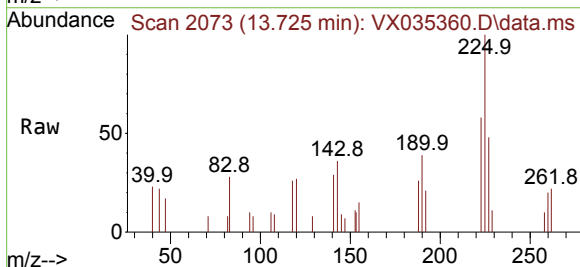
Tgt Ion:225 Resp: 880

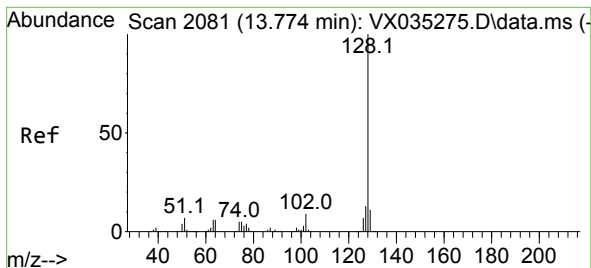
Ion Ratio Lower Upper

225 100

223 54.7 32.1 96.5

227 51.4 31.8 95.4





#95

Naphthalene

Concen: 0.313 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

Instrument :

MSVOA_X

ClientSampleId :

MW-9

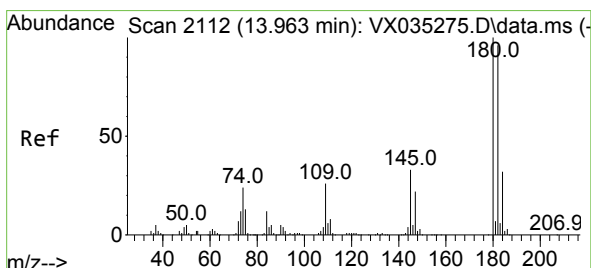
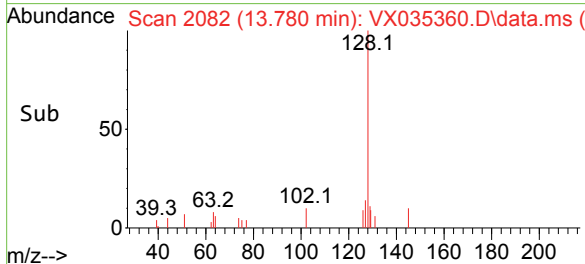
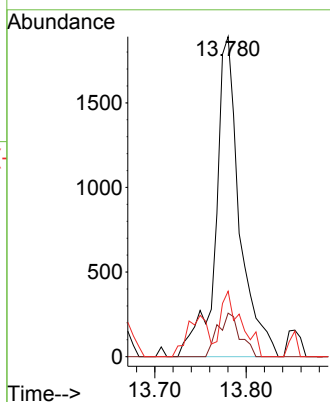
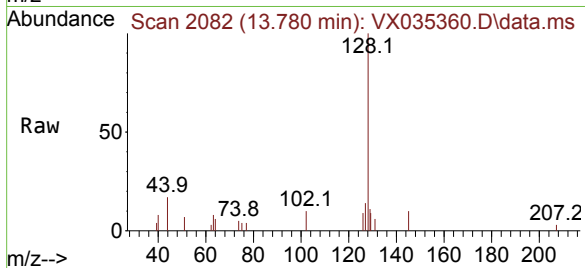
Tgt Ion:128 Resp: 3422

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

129 17.7 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 0.233 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX035360.D

Acq: 28 Apr 2023 03:03

Tgt Ion:180 Resp: 833

Ion Ratio Lower Upper

180 100

182 98.6 48.0 144.2

145 278.8 17.7 53.1#

