

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX041323\
 Data File : VX035043.D
 Acq On : 12 Apr 2023 13:49
 Operator : JC/MD
 Sample : 02293-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IDW-LIQ-FTWZ1A-041123

Quant Time: Apr 13 02:34:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032923W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 01 01:50:18 2023
 Response via : Initial Calibration

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

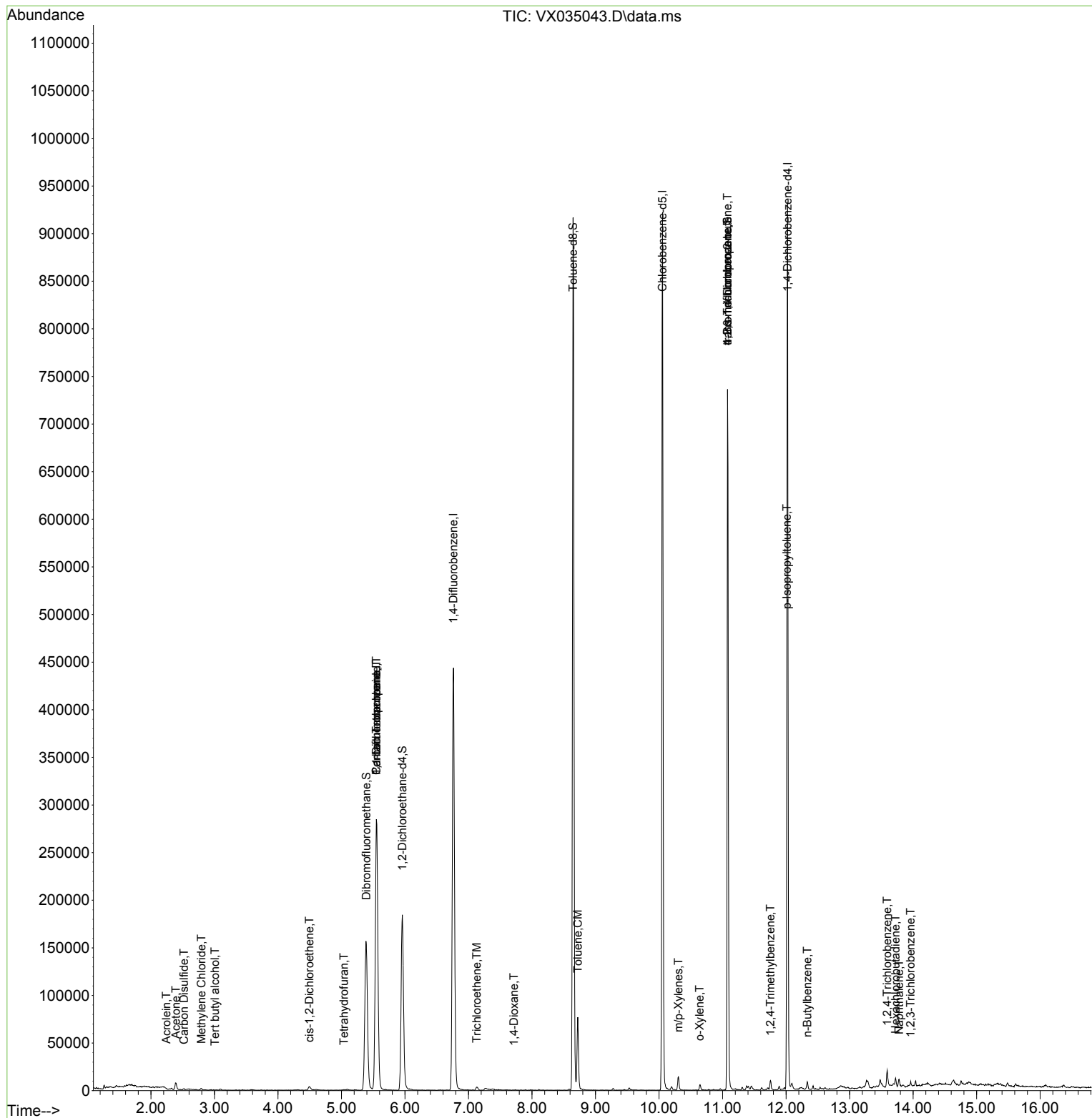
Internal Standards						
1) Pentafluorobenzene	5.550	168	261009	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	445212	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	401889	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	188970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	180929	45.326	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	90.660%
35) Dibromofluoromethane	5.391	113	137554	46.712	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.420%
50) Toluene-d8	8.647	98	534172	49.146	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.300%
62) 4-Bromofluorobenzene	11.079	95	203929	48.484	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.960%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.007	59	428	0.611	ug/l #	73
13) Acrolein	2.239	56	255	0.354	ug/l #	75
16) Acetone	2.392	43	9361	5.773	ug/l	99
17) Carbon Disulfide	2.520	76	1549	0.231	ug/l #	93
20) Methylene Chloride	2.794	84	665	0.208	ug/l #	77
27) cis-1,2-Dichloroethene	4.495	96	2715	0.784	ug/l	78
29) Tetrahydrofuran	5.037	42	832	0.563	ug/l #	39
36) 1,1-Dichloropropene	5.550	75	21379	4.900	ug/l #	49
38) Carbon Tetrachloride	5.550	117	28453	6.918	ug/l #	17
44) Trichloroethene	7.129	130	1488	0.465	ug/l	92
49) 1,4-Dioxane	7.714	88	48	0.621	ug/l #	39
52) Toluene	8.720	92	28087	3.440	ug/l	100
68) m/p-Xylenes	10.305	106	3834	0.663	ug/l	85
69) o-Xylene	10.640	106	1354	0.239	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	104688	27.494	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	104688	82.399	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.756	105	5159	0.438	ug/l	97
86) p-Isopropyltoluene	12.012	119	2273	0.206	ug/l #	78
89) n-Butylbenzene	12.335	91	2954	0.307	ug/l	90
93) 1,2,4-Trichlorobenzene	13.591	180	1095	0.309	ug/l	95
94) Hexachlorobutadiene	13.725	225	1022	0.657	ug/l	95
95) Naphthalene	13.780	128	4896	0.389	ug/l #	95
96) 1,2,3-Trichlorobenzene	13.963	180	1177	0.330	ug/l #	82

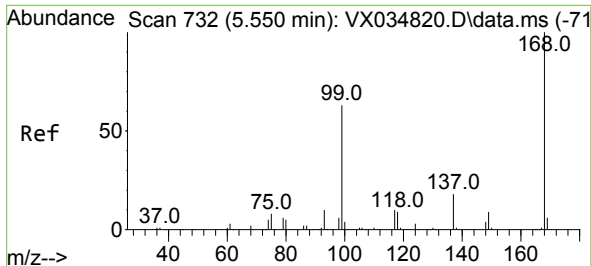
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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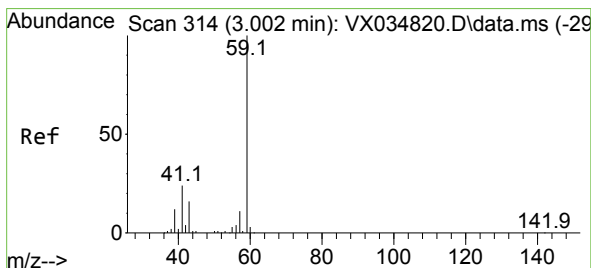
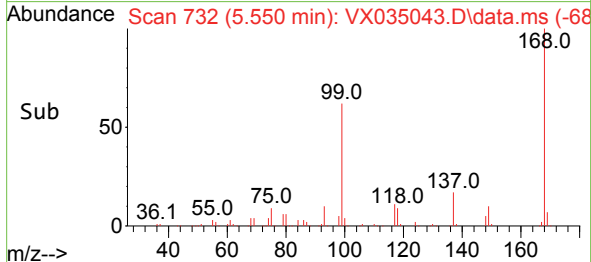
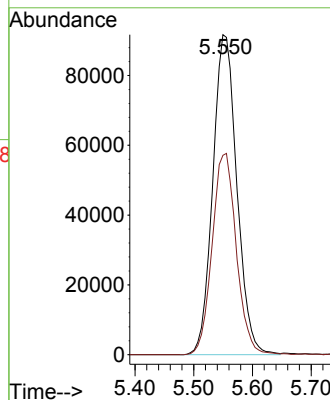
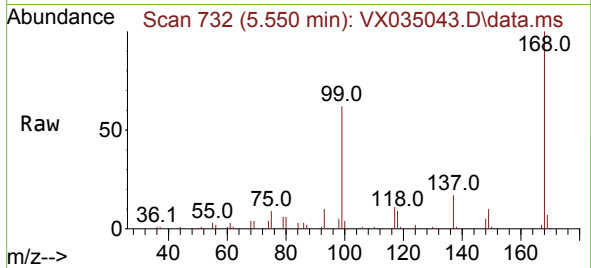




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

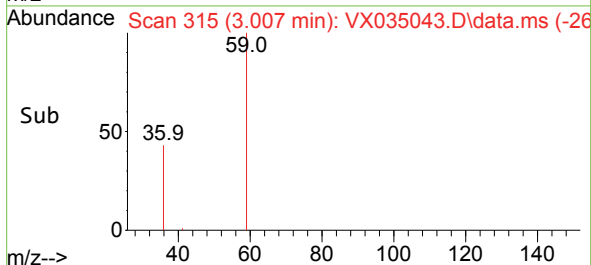
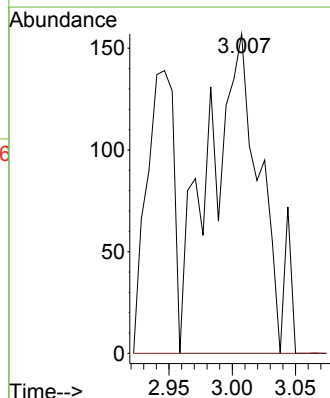
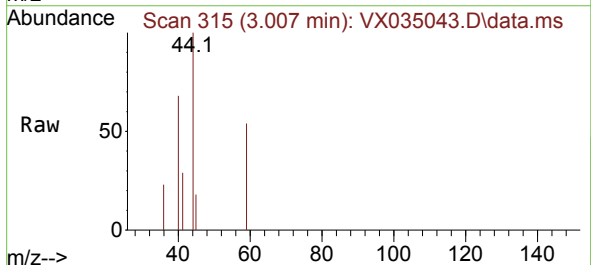
Instrument :
MSVOA_X
ClientSampleId :
IDW-LIQ-FTWZ1A-041123

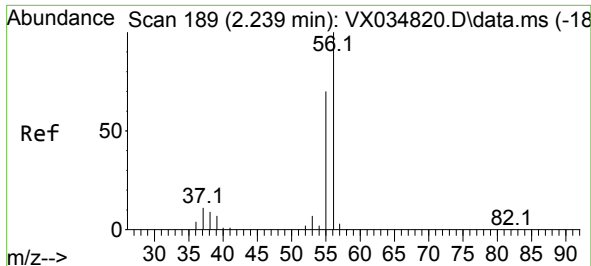
Tgt Ion:168 Resp: 261009
Ion Ratio Lower Upper
168 100
99 62.3 45.7 68.5



#11
Tert butyl alcohol
Concen: 0.611 ug/l
RT: 3.007 min Scan# 315
Delta R.T. 0.006 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

Tgt Ion: 59 Resp: 428
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 0.354 ug/l

RT: 2.239 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

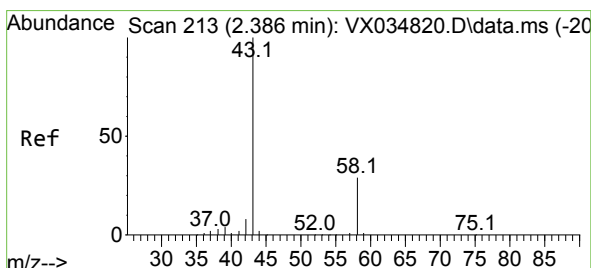
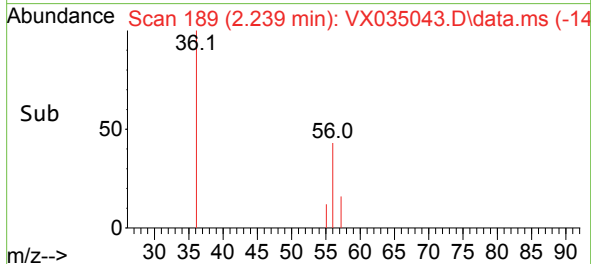
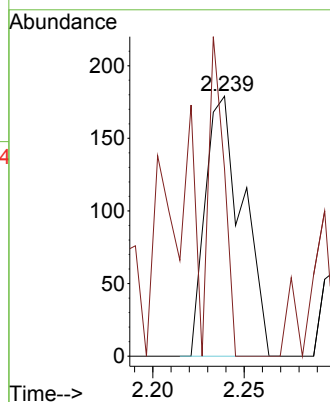
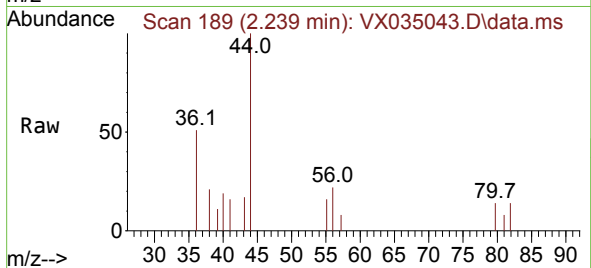
IDW-LIQ-FTWZ1A-041123

Tgt Ion: 56 Resp: 255

Ion Ratio Lower Upper

56 100

55 50.2 56.6 85.0#



#16

Acetone

Concen: 5.773 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX035043.D

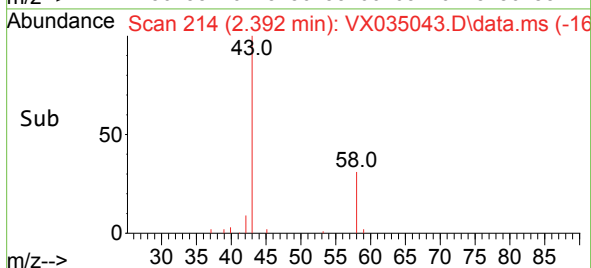
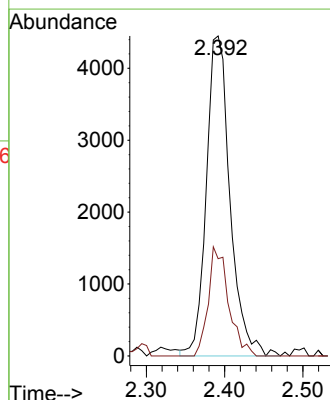
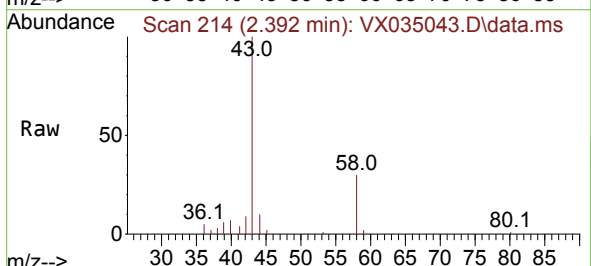
Acq: 12 Apr 2023 13:49

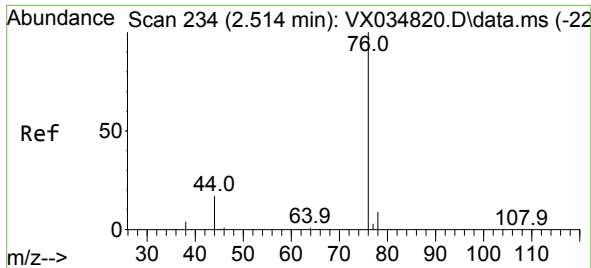
Tgt Ion: 43 Resp: 9361

Ion Ratio Lower Upper

43 100

58 30.4 24.7 37.1





#17

Carbon Disulfide

Concen: 0.231 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

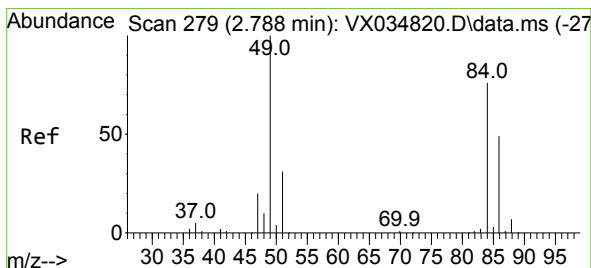
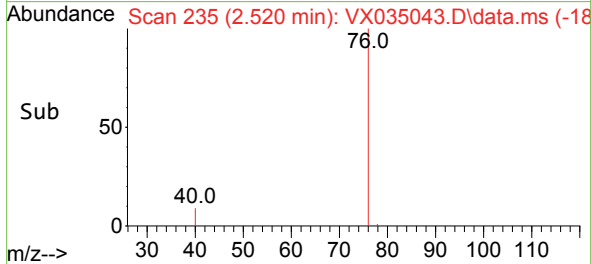
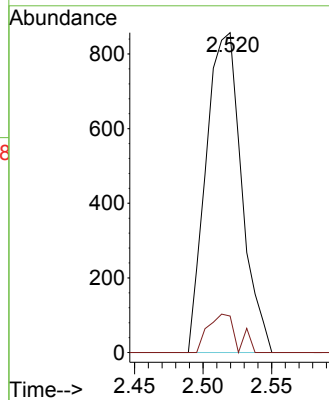
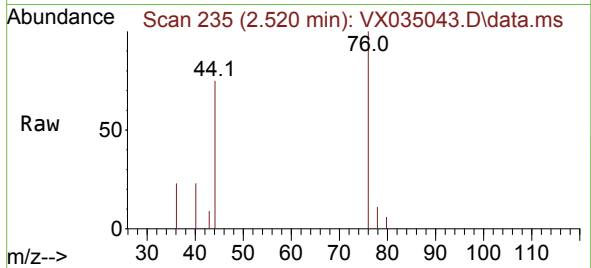
IDW-LIQ-FTWZ1A-041123

Tgt Ion: 76 Resp: 1549

Ion Ratio Lower Upper

76 100

78 11.4 7.2 10.8#



#20

Methylene Chloride

Concen: 0.208 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Tgt Ion: 84 Resp: 665

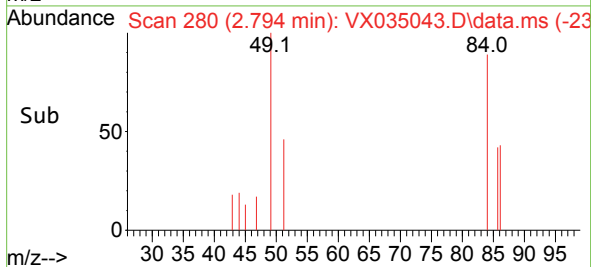
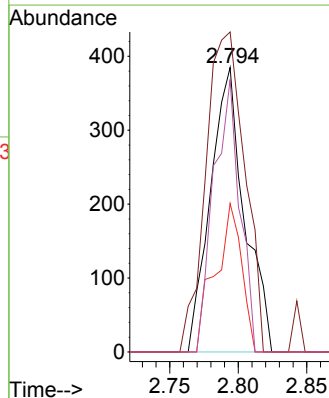
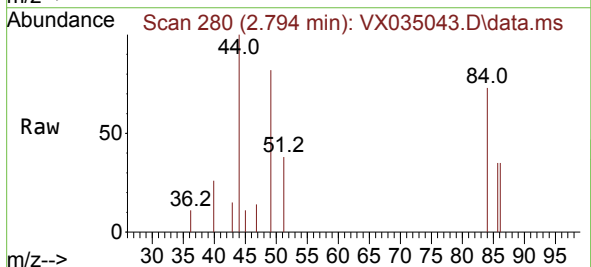
Ion Ratio Lower Upper

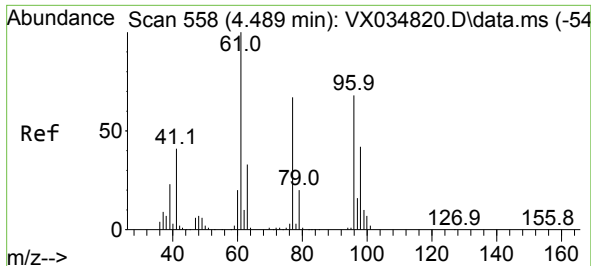
84 100

49 112.5 103.8 155.8

51 52.2 31.8 47.8#

86 95.8 51.4 77.2#

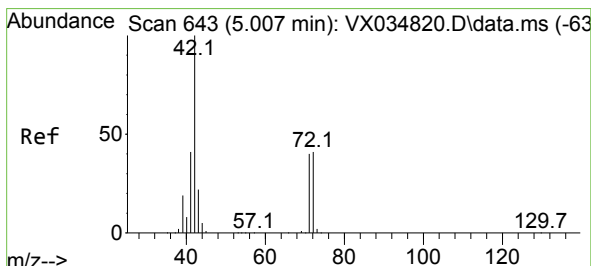
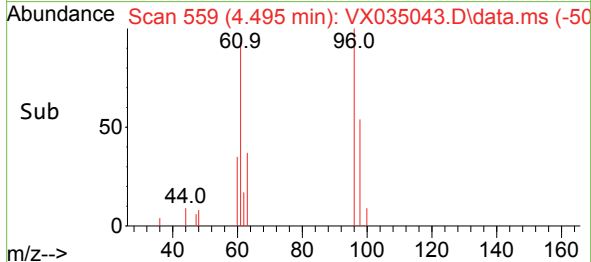
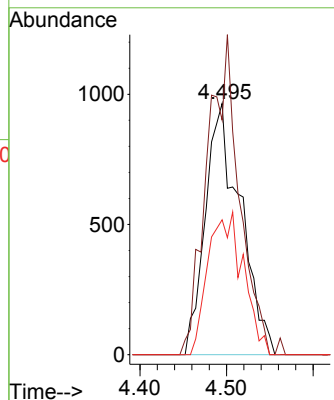
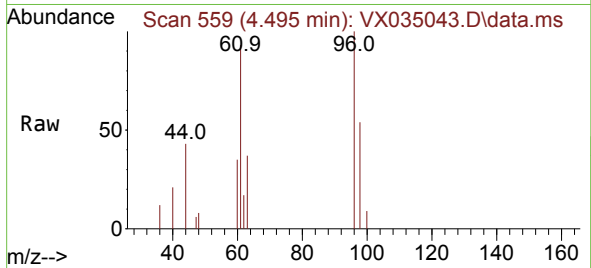




#27
 cis-1,2-Dichloroethene
 Concen: 0.784 ug/l
 RT: 4.495 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VX035043.D
 Acq: 12 Apr 2023 13:49

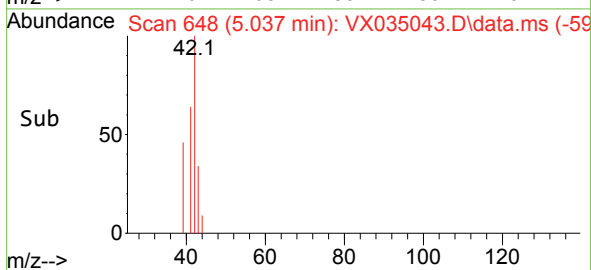
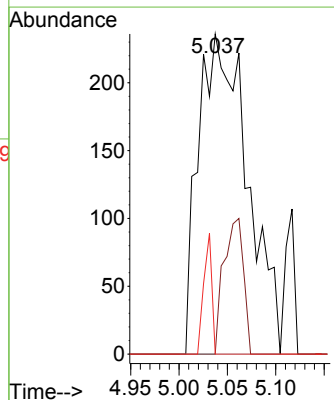
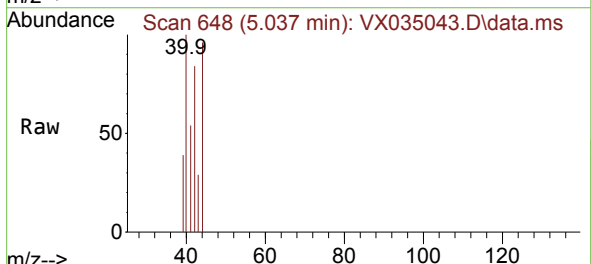
Instrument :
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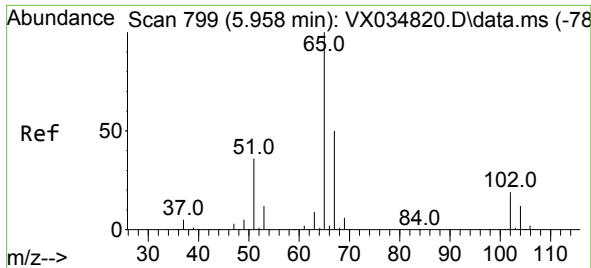
Tgt Ion:	96	Resp:	2715
Ion	Ratio	Lower	Upper
96	100		
61	116.4	0.0	300.4
98	56.9	0.0	129.0



#29
 Tetrahydrofuran
 Concen: 0.563 ug/l
 RT: 5.037 min Scan# 648
 Delta R.T. 0.030 min
 Lab File: VX035043.D
 Acq: 12 Apr 2023 13:49

Tgt Ion:	42	Resp:	832
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.5	51.7#
71	6.3	32.1	48.1#

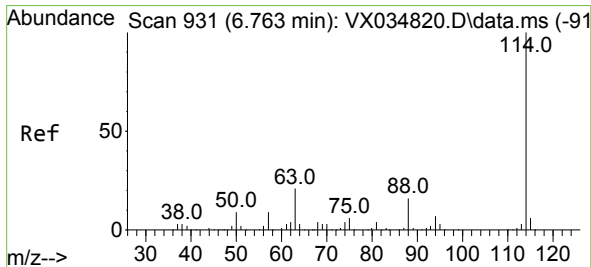
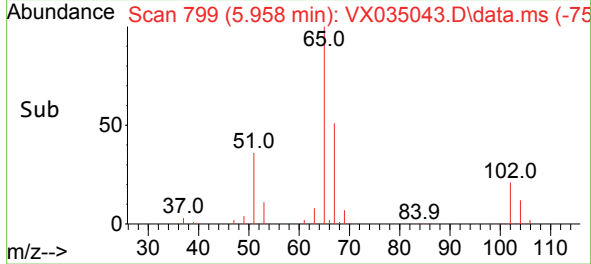
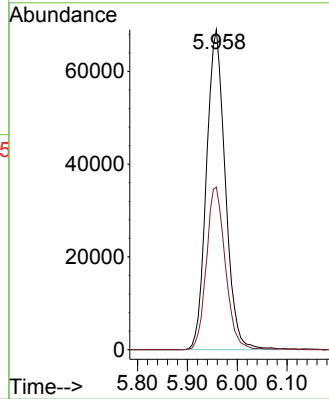
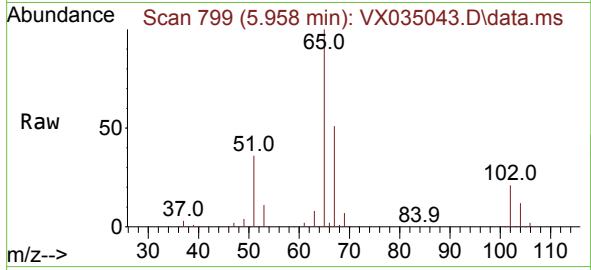




#33
 1,2-Dichloroethane-d4
 Concen: 45.326 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. -0.000 min
 Lab File: VX035043.D
 Acq: 12 Apr 2023 13:49

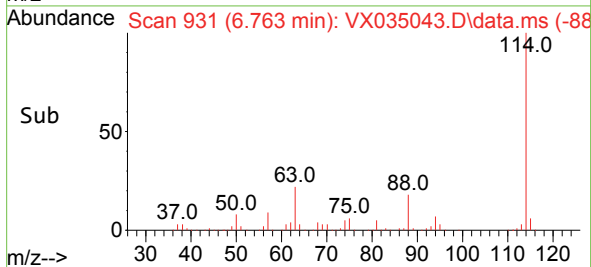
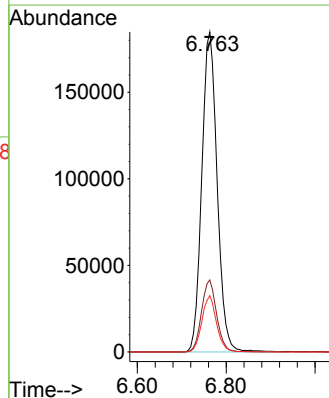
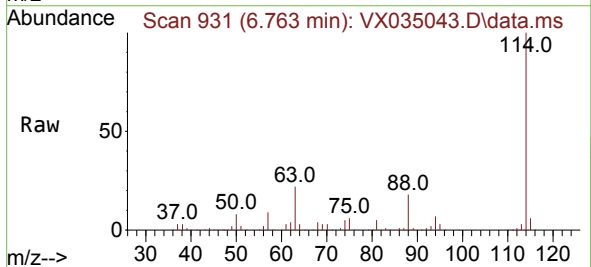
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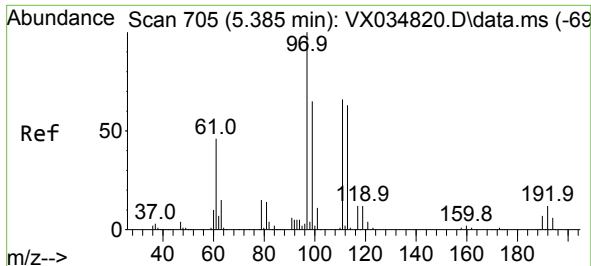
Tgt Ion: 65 Resp: 180929
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: VX035043.D
 Acq: 12 Apr 2023 13:49

Tgt Ion: 114 Resp: 445212
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 42.2
 88 17.6 0.0 33.2

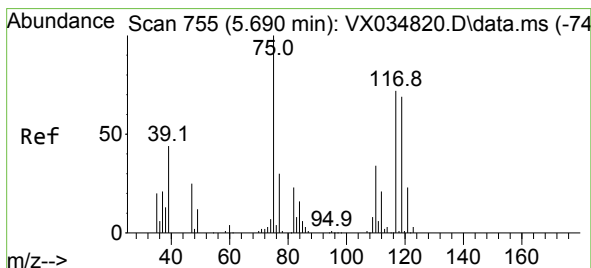
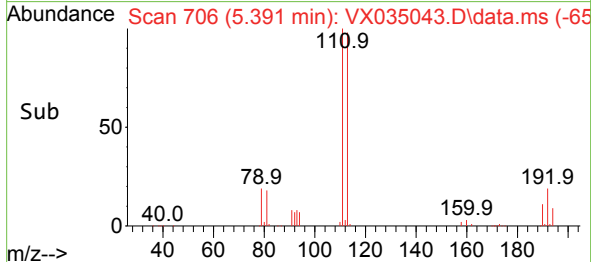
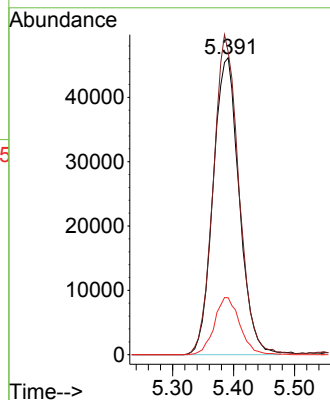
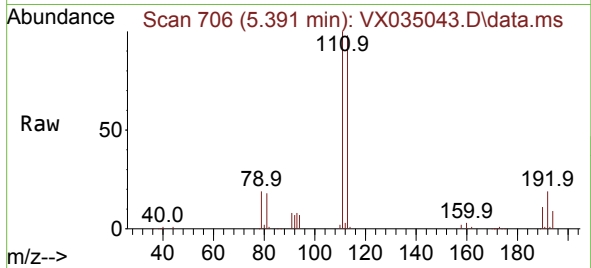




#35
 Dibromofluoromethane
 Concen: 46.712 ug/l
 RT: 5.391 min Scan# 705
 Delta R.T. 0.006 min
 Lab File: VX035043.D
 Acq: 12 Apr 2023 13:49

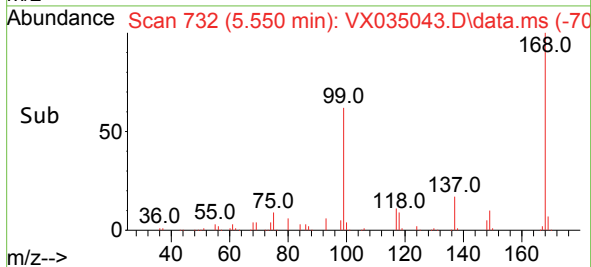
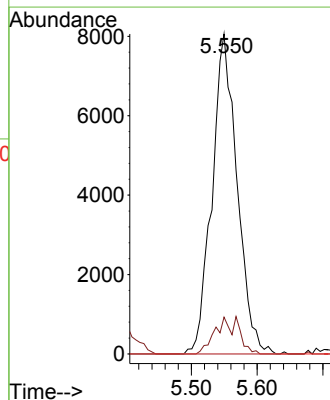
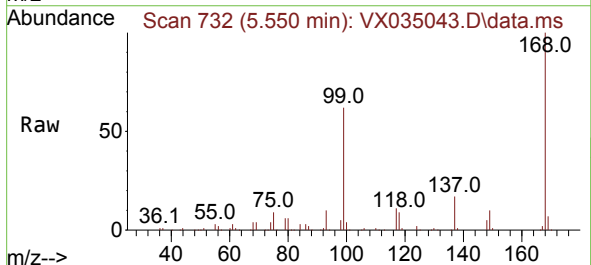
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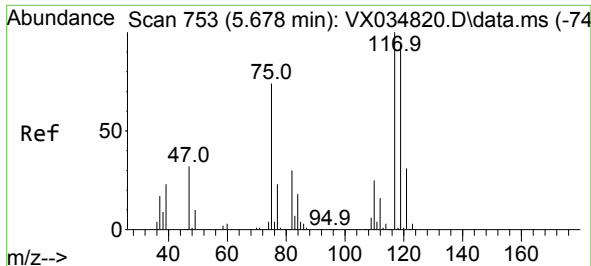
Tgt Ion:113 Resp: 137554
 Ion Ratio Lower Upper
 113 100
 111 105.1 83.7 125.5
 192 18.8 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.900 ug/l
 RT: 5.550 min Scan# 732
 Delta R.T. -0.140 min
 Lab File: VX035043.D
 Acq: 12 Apr 2023 13:49

Tgt Ion: 75 Resp: 21379
 Ion Ratio Lower Upper
 75 100
 110 7.4 17.5 52.5#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.918 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.128 min

Lab File: VX035043.D

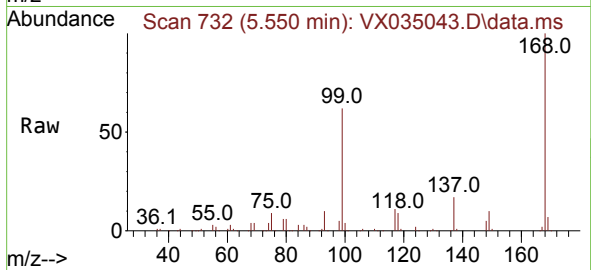
Acq: 12 Apr 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

IDW-LIQ-FTWZ1A-041123



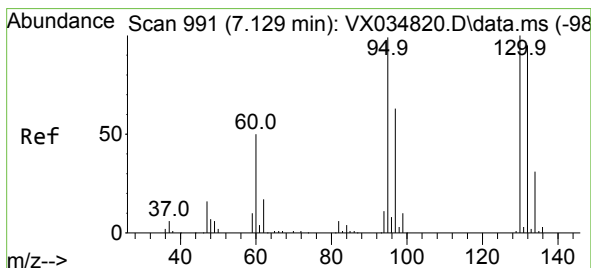
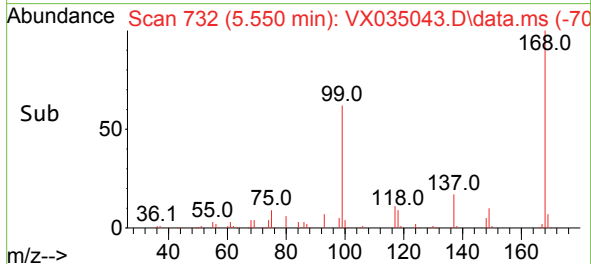
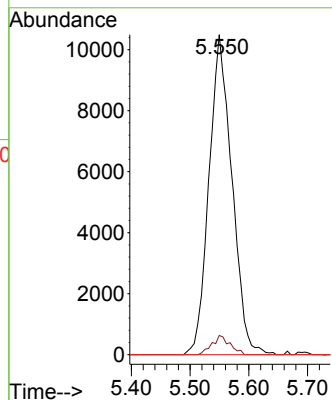
Tgt Ion:117 Resp: 28453

Ion Ratio Lower Upper

117 100

119 6.0 76.6 114.8#

121 0.0 23.8 35.6#



#44

Trichloroethene

Concen: 0.465 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX035043.D

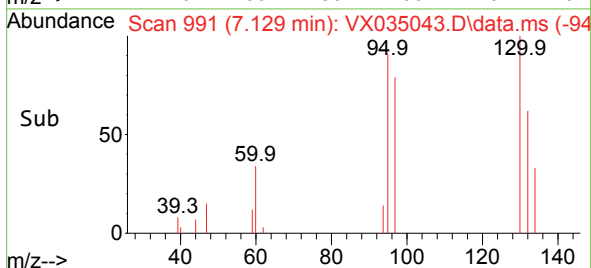
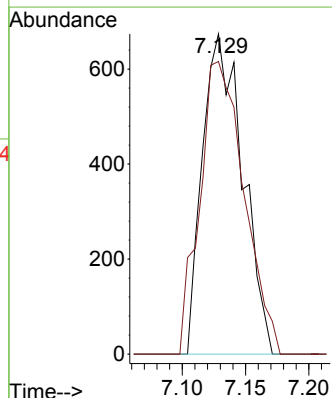
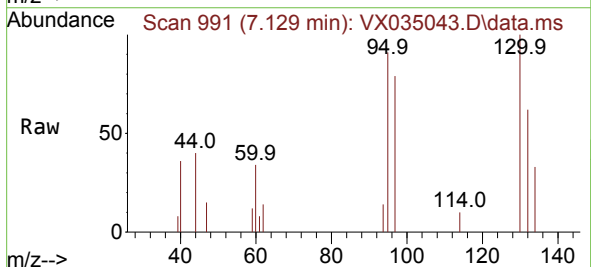
Acq: 12 Apr 2023 13:49

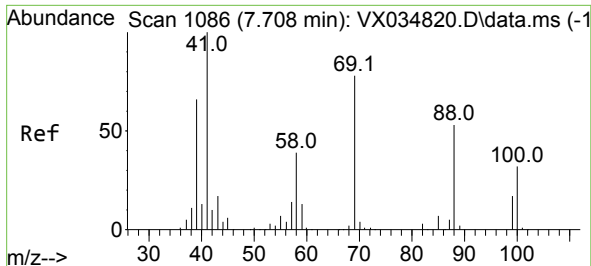
Tgt Ion:130 Resp: 1488

Ion Ratio Lower Upper

130 100

95 91.4 0.0 198.4





#49

1,4-Dioxane

Concen: 0.621 ug/l

RT: 7.714 min Scan# 1086

Delta R.T. 0.006 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

IDW-LIQ-FTWZ1A-041123

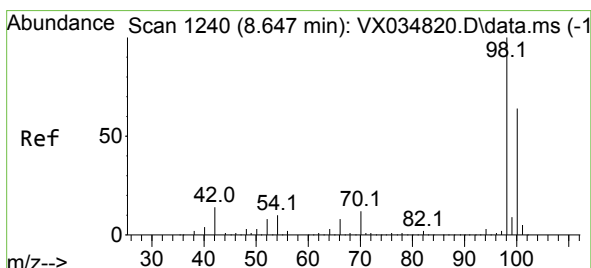
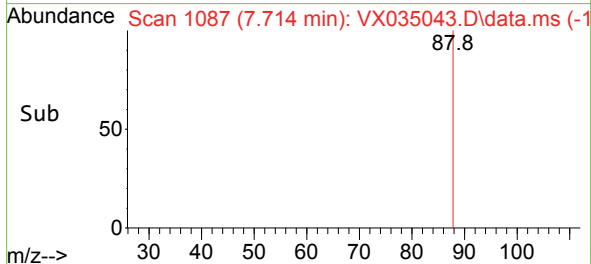
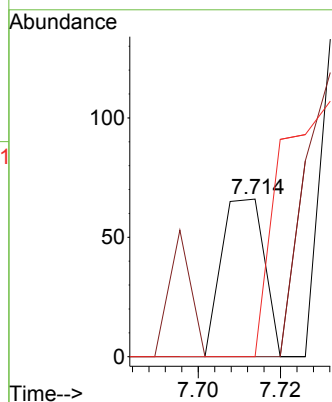
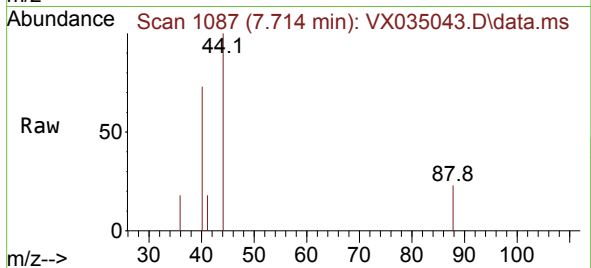
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 39.6 27.7 41.5

58 0.0 56.8 85.2#



#50

Toluene-d8

Concen: 49.146 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX035043.D

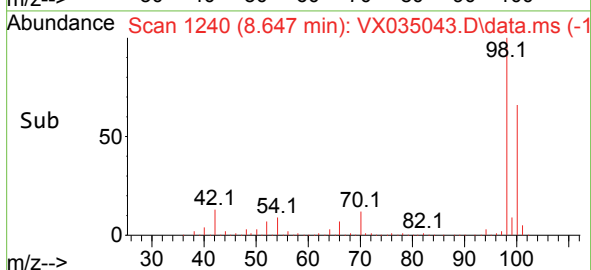
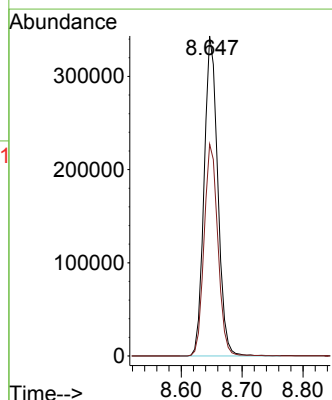
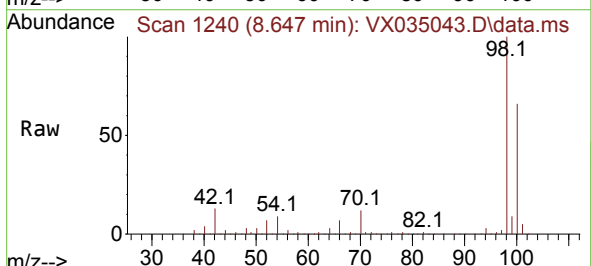
Acq: 12 Apr 2023 13:49

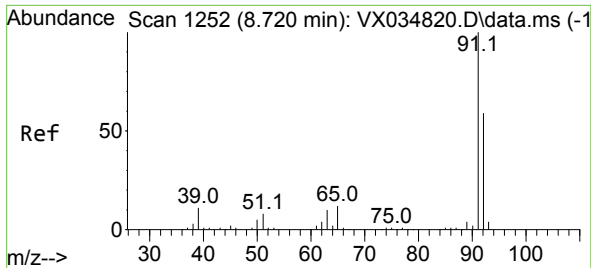
Tgt Ion: 98 Resp: 534172

Ion Ratio Lower Upper

98 100

100 66.9 52.5 78.7

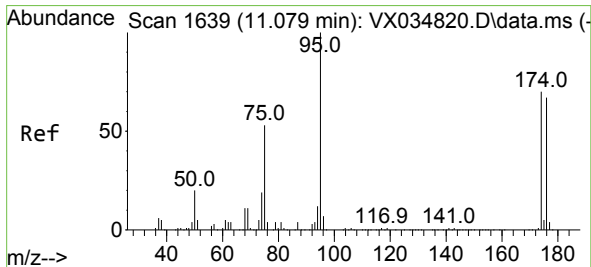
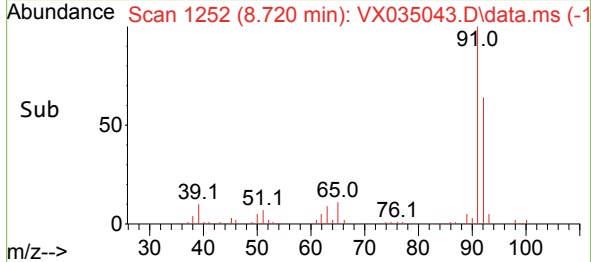
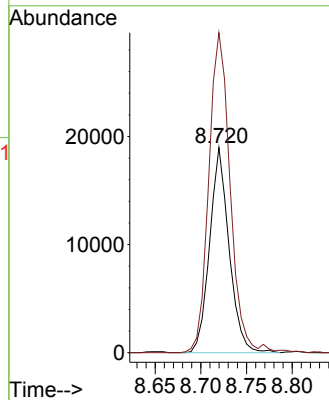
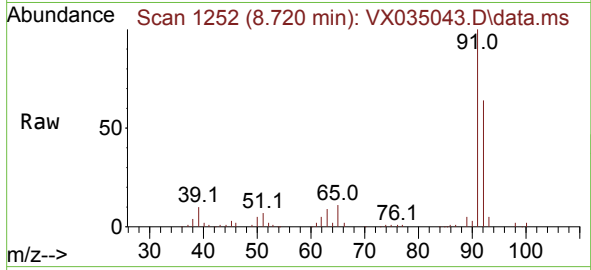




#52
Toluene
Concen: 3.440 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

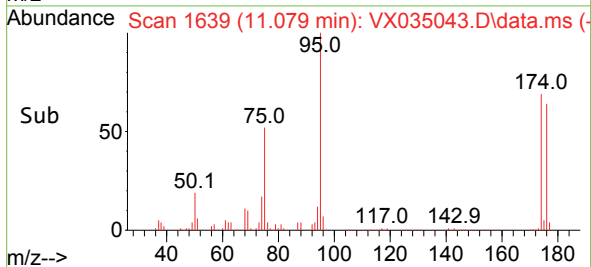
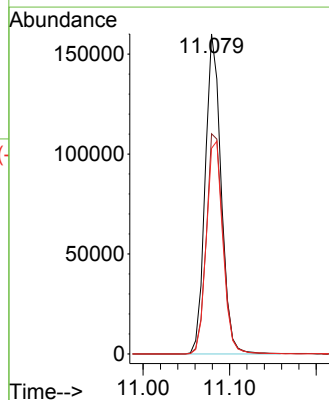
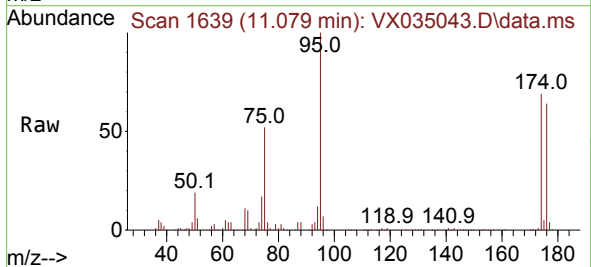
Instrument :
MSVOA_X
ClientSampleId :
IDW-LIQ-FTWZ1A-041123

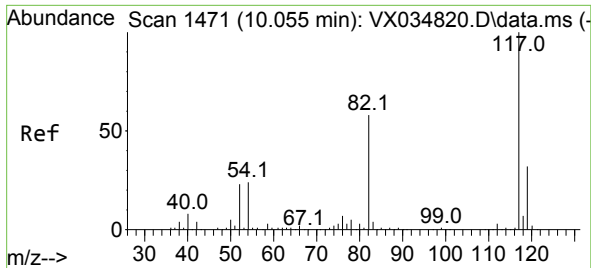
Tgt Ion: 92 Resp: 28087
Ion Ratio Lower Upper
92 100
91 171.5 136.8 205.2



#62
4-Bromofluorobenzene
Concen: 48.484 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

Tgt Ion: 95 Resp: 203929
Ion Ratio Lower Upper
95 100
174 72.5 0.0 147.4
176 69.3 0.0 140.6

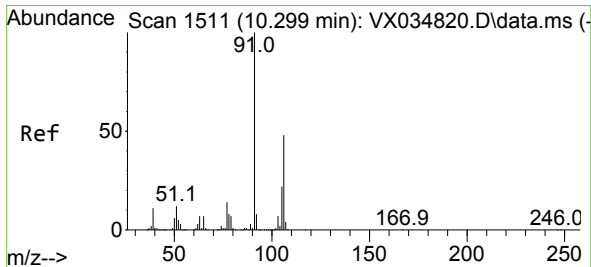
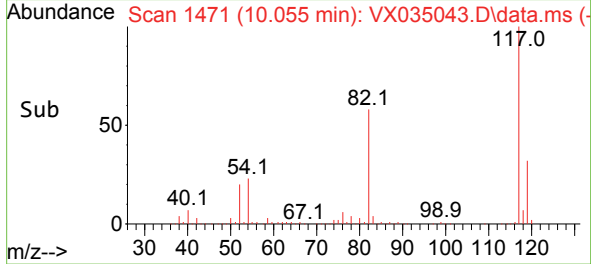
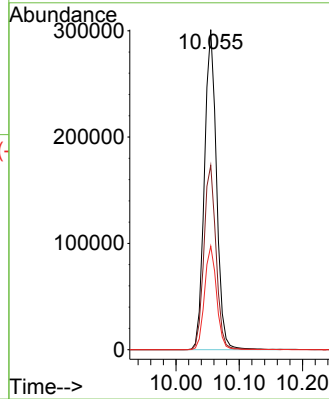
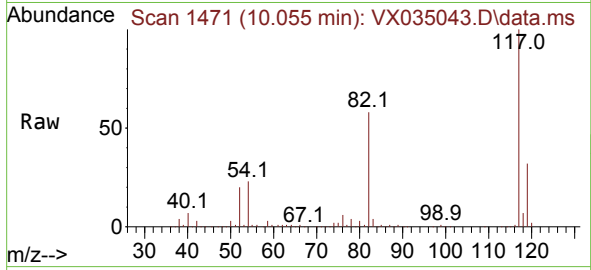




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

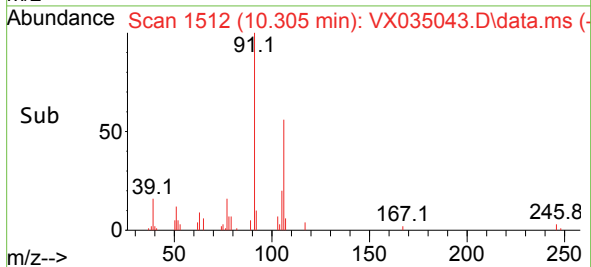
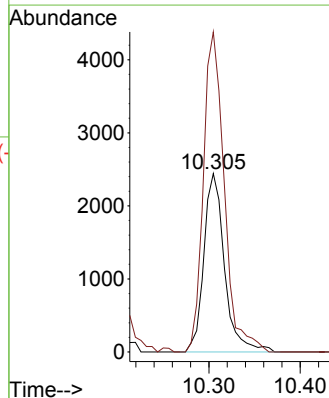
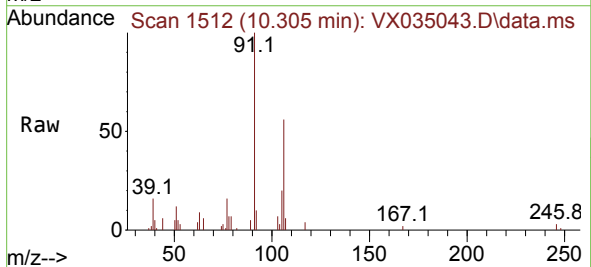
Instrument :
MSVOA_X
ClientSampleId :
IDW-LIQ-FTWZ1A-041123

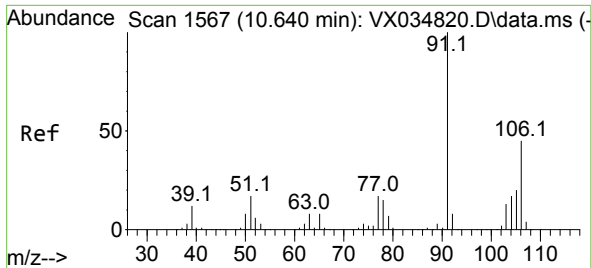
Tgt Ion:117 Resp: 401889
Ion Ratio Lower Upper
117 100
82 57.6 45.0 67.4
119 32.3 26.0 39.0



#68
m/p-Xylenes
Concen: 0.663 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

Tgt Ion:106 Resp: 3834
Ion Ratio Lower Upper
106 100
91 181.4 164.0 246.0

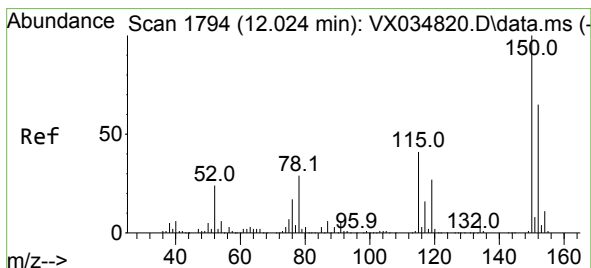
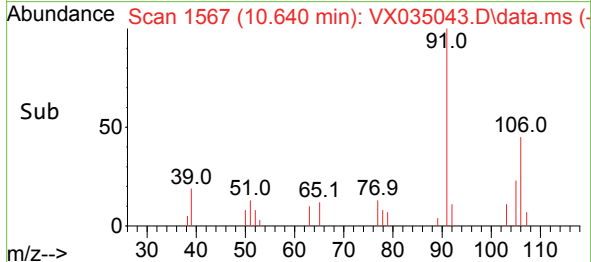
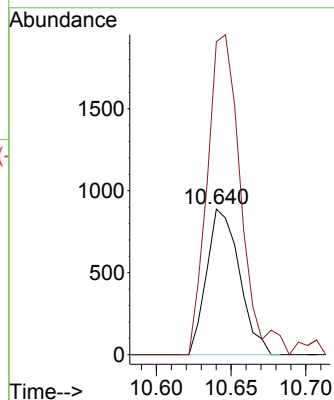
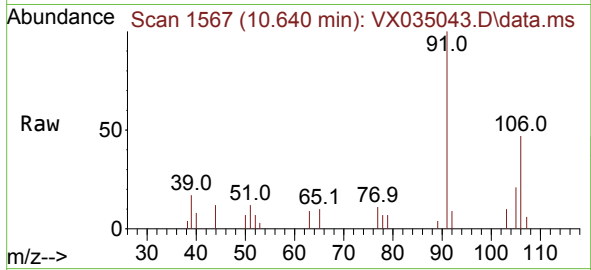




#69
o-Xylene
Concen: 0.239 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

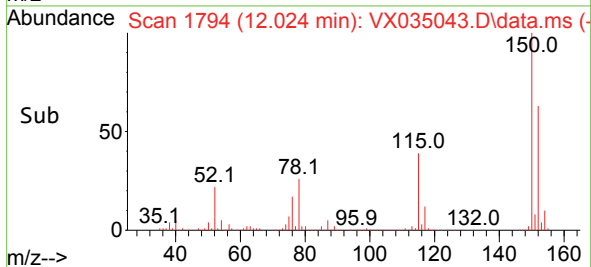
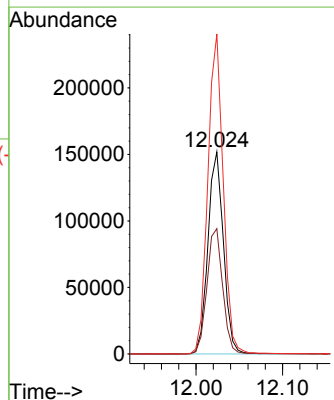
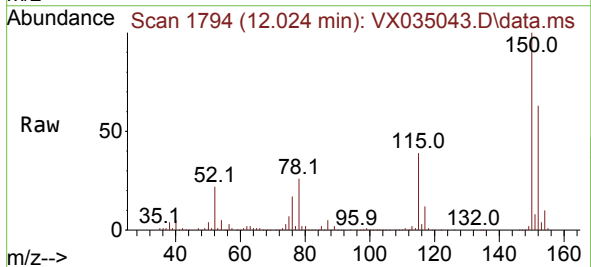
Instrument : MSVOA_X
ClientSampleId : IDW-LIQ-FTWZ1A-041123

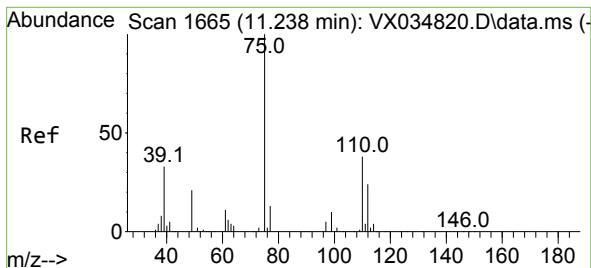
Tgt Ion:106 Resp: 1354
Ion Ratio Lower Upper
106 100
91 223.6 108.5 325.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX035043.D
Acq: 12 Apr 2023 13:49

Tgt Ion:152 Resp: 188970
Ion Ratio Lower Upper
152 100
115 63.0 45.0 135.0
150 157.2 0.0 352.4





#76

1,2,3-Trichloropropane

Concen: 27.494 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

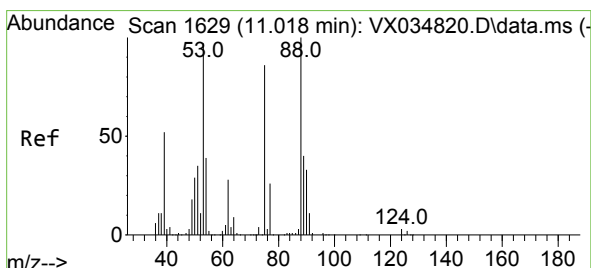
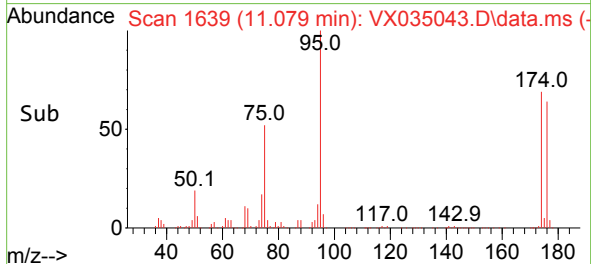
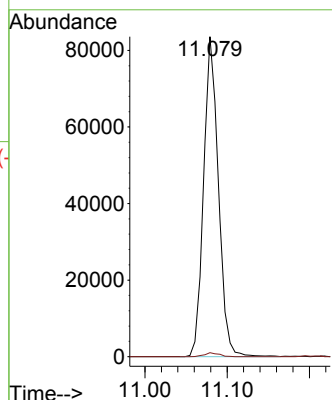
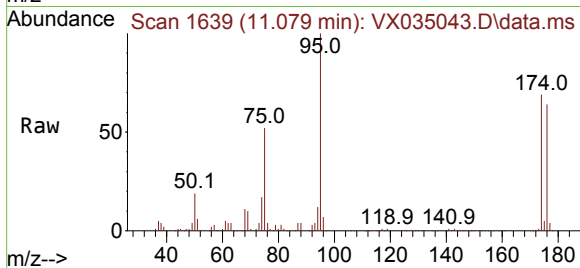
IDW-LIQ-FTWZ1A-041123

Tgt Ion: 75 Resp: 104688

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.399 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

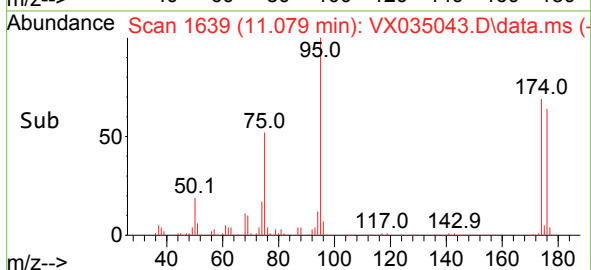
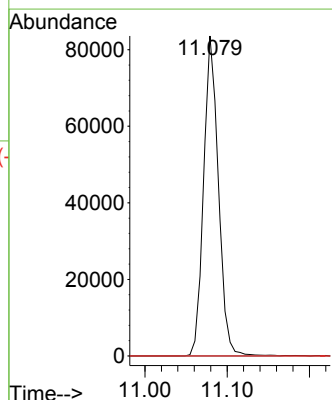
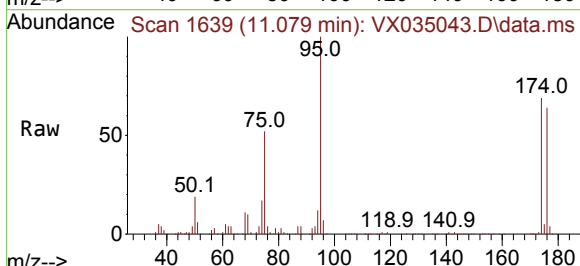
Tgt Ion: 75 Resp: 104688

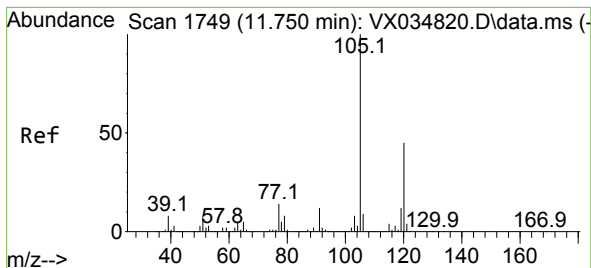
Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.0 36.9 55.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.438 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

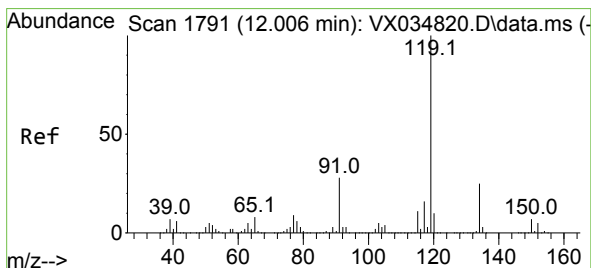
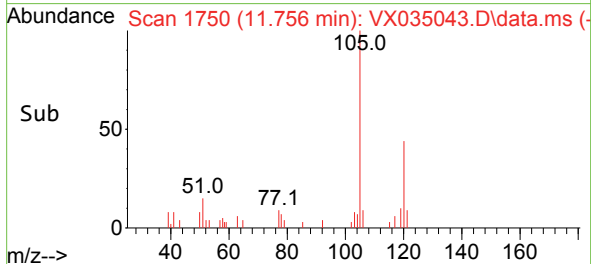
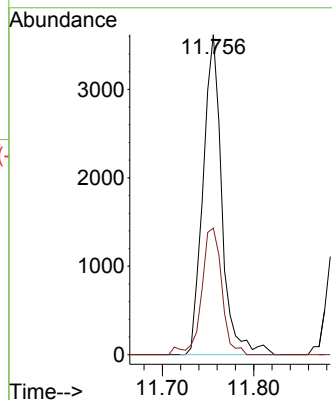
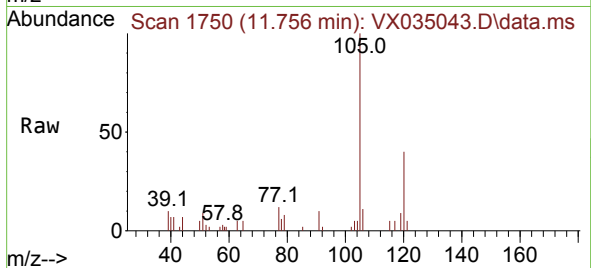
IDW-LIQ-FTWZ1A-041123

Tgt Ion:105 Resp: 5159

Ion Ratio Lower Upper

105 100

120 42.5 22.4 67.0



#86

p-Isopropyltoluene

Concen: 0.206 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

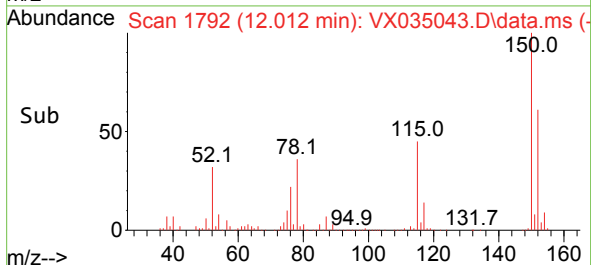
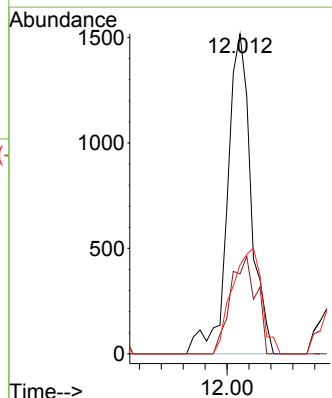
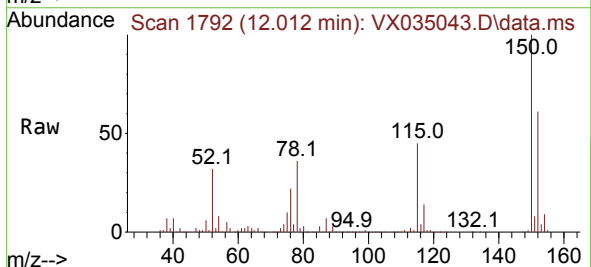
Tgt Ion:119 Resp: 2273

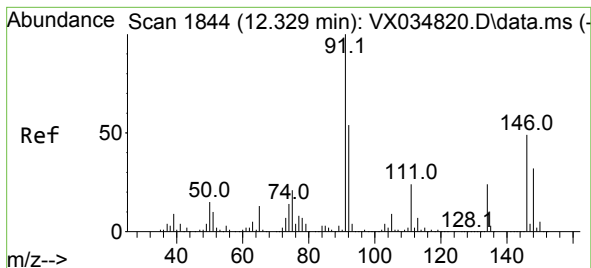
Ion Ratio Lower Upper

119 100

134 33.3 13.2 39.5

91 41.1 12.9 38.7#





#89

n-Butylbenzene

Concen: 0.307 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX035043.D

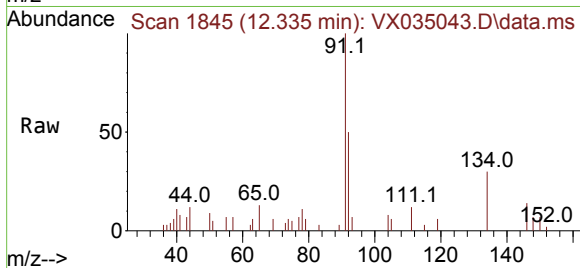
Acq: 12 Apr 2023 13:49

Instrument :

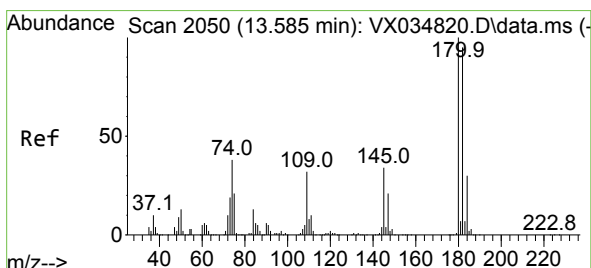
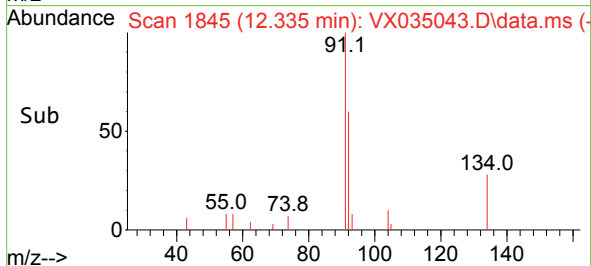
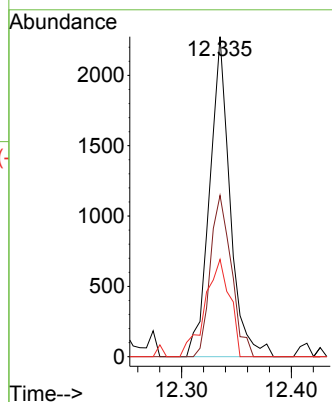
MSVOA_X

ClientSampleId :

IDW-LIQ-FTWZ1A-041123



Tgt Ion:	91	Resp:	2954
Ion	Ratio	Lower	Upper
91	100		
92	51.6	27.7	83.0
134	36.7	13.0	38.9



#93

1,2,4-Trichlorobenzene

Concen: 0.309 ug/l

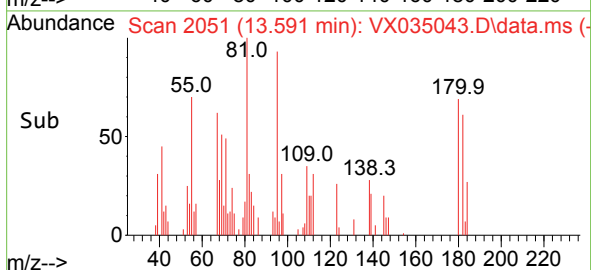
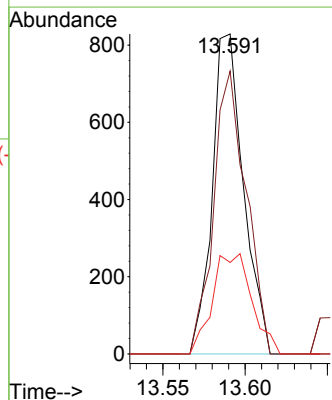
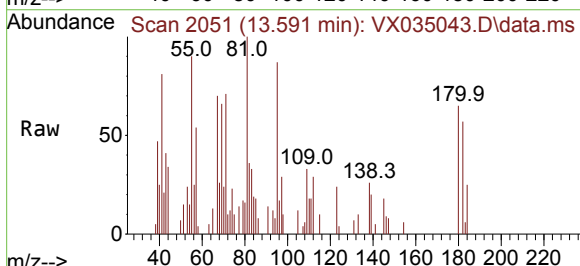
RT: 13.591 min Scan# 2051

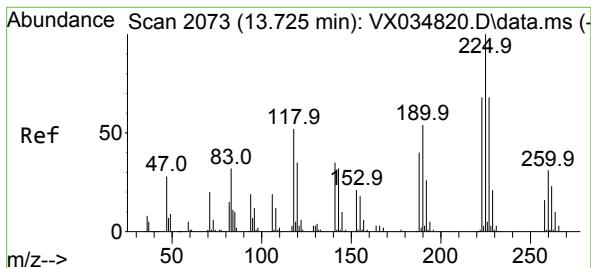
Delta R.T. 0.006 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Tgt Ion:	180	Resp:	1095
Ion	Ratio	Lower	Upper
180	100		
182	92.1	47.0	141.0
145	39.5	15.9	47.7





#94

Hexachlorobutadiene

Concen: 0.657 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

Instrument :

MSVOA_X

ClientSampleId :

IDW-LIQ-FTWZ1A-041123

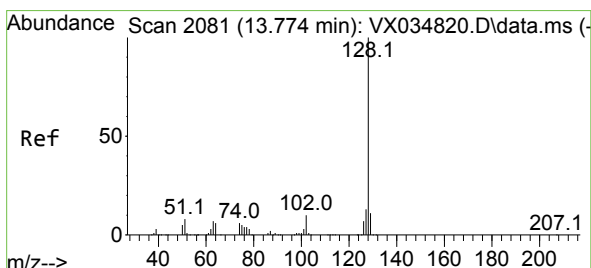
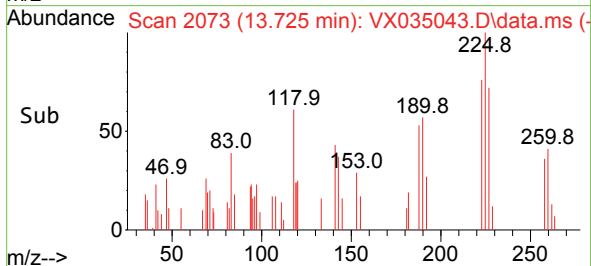
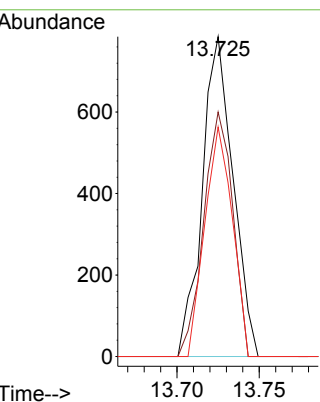
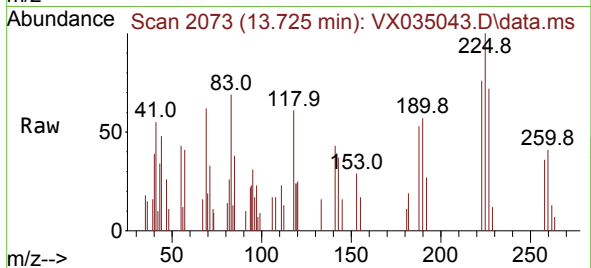
Tgt Ion:225 Resp: 1022

Ion Ratio Lower Upper

225 100

223 72.0 32.1 96.5

227 64.2 31.8 95.4



#95

Naphthalene

Concen: 0.389 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX035043.D

Acq: 12 Apr 2023 13:49

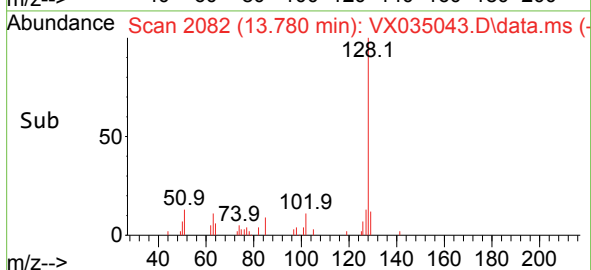
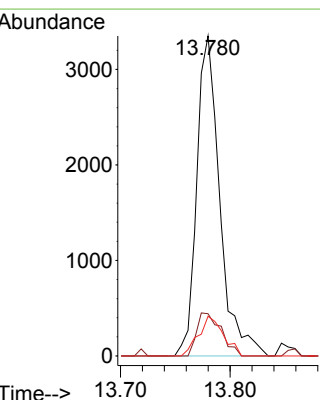
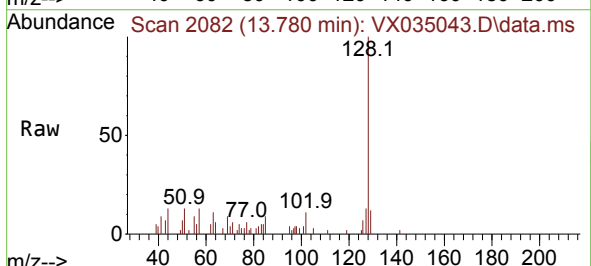
Tgt Ion:128 Resp: 4896

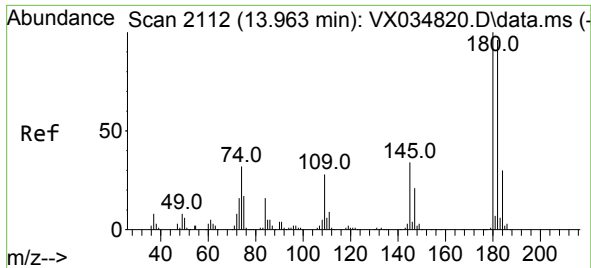
Ion Ratio Lower Upper

128 100

127 14.2 10.2 15.4

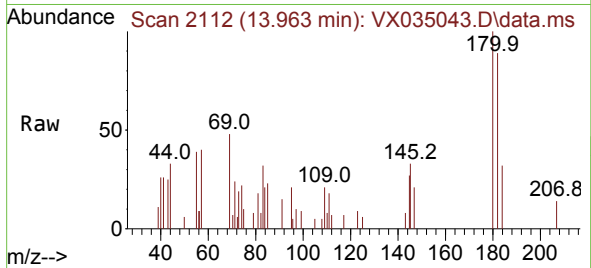
129 13.3 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.330 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. -0.000 min
 Lab File: VX035043.D
 Acq: 12 Apr 2023 13:49

Instrument :
 MSVOA_X
 ClientSampleId :
 IDW-LIQ-FTWZ1A-041123



Tgt Ion:180 Resp: 1177
 Ion Ratio Lower Upper
 180 100
 182 88.2 48.0 144.2
 145 62.5 17.7 53.1#

