

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX083023\
 Data File : VX037383.D
 Acq On : 30 Aug 2023 12:51
 Operator : JC/MD
 Sample : 04208-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-10B-45-082823-H

Quant Time: Aug 31 02:21:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	142572	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	229247	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	196801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	85246	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	84339	41.032	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	82.060%		
35) Dibromofluoromethane	5.391	113	69184	45.568	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.140%		
50) Toluene-d8	8.647	98	265038	48.125	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.260%		
62) 4-Bromofluorobenzene	11.079	95	93353	43.134	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	86.260%		
Target Compounds					Qvalue	
3) Chloromethane	1.301	50	341	0.235	ug/l	95
4) Vinyl Chloride	1.374	62	2854	1.810	ug/l	93
6) Chloroethane	1.672	64	313	0.337	ug/l #	87
12) 1,1-Dichloroethene	2.313	96	33413	22.767	ug/l	83
13) Acrolein	2.252	56	94	0.256	ug/l #	14
16) Acetone	2.386	43	1526	1.898	ug/l	92
20) Methylene Chloride	2.788	84	867	0.482	ug/l #	60
21) trans-1,2-Dichloroethene	3.087	96	2728	1.635	ug/l	86
24) 1,1-Dichloroethane	3.611	63	10568	3.615	ug/l	96
25) 2-Butanone	4.599	43	285	0.235	ug/l #	51
27) cis-1,2-Dichloroethene	4.489	96	131678	66.949	ug/l	80
31) Cyclohexane	5.550	56	2871	1.242	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	10940	5.072	ug/l #	51
38) Carbon Tetrachloride	5.556	117	15322	6.539	ug/l #	15
42) 1,2-Dichloroethane	6.092	62	10344	4.264	ug/l	94
44) Trichloroethene	7.123	130	105131	59.932	ug/l	97
49) 1,4-Dioxane	7.671	88	3045	66.275	ug/l #	89
68) m/p-Xylenes	10.305	106	607	0.215	ug/l #	70
76) 1,2,3-Trichloropropane	11.079	75	45443	25.031	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	45443	69.913	ug/l #	5
87) 1,3-Dichlorobenzene	11.969	146	625	0.221	ug/l	93
88) 1,4-Dichlorobenzene	11.969	146	625	0.214	ug/l	94
89) n-Butylbenzene	12.335	91	848	0.206	ug/l	92
93) 1,2,4-Trichlorobenzene	13.591	180	679	0.418	ug/l	94
94) Hexachlorobutadiene	13.725	225	268	0.427	ug/l	94
95) Naphthalene	13.774	128	2548	0.358	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	612	0.379	ug/l	86

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

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Abundance

TIC: VX037383.D\data.ms

Time-->

Chloroethane, T

Chloroethane, T

Acrolein, T

Acetone, T

1,1-Dichloroethene, CM

Methylene Chloride, T

trans-1,2-Dichloroethene, T

1,1-Dichloroethane, P

2-Butanone, T

cis-1,2-Dichloroethene, T

Dibromodifluoromethane, S

1,2-Dichloroethane-d4, S

1,2-Dichloroethane, TM

1,4-Difluorobenzene, I

Trichloroethene, TM

1,4-Dioxane, T

Toluene-d8, S

Chlorobenzene-d5, I

m/p-Xylenes, T

trans-1,2-Dichloroethene, T

1,4-Dichlorobenzene-d4, I

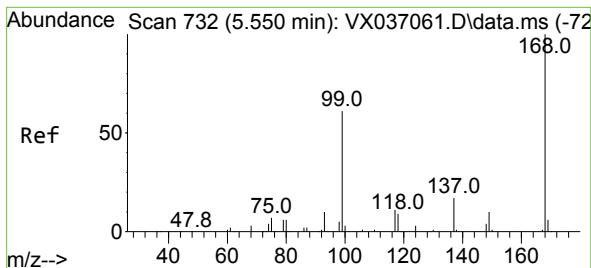
n-Butylbenzene, T

1,2,4-Trichlorobenzene, T

1,2,3-Trichlorobenzene, T

1,2,4-Trichlorobenzene, I

1,2,3-Trichlorobenzene, T



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

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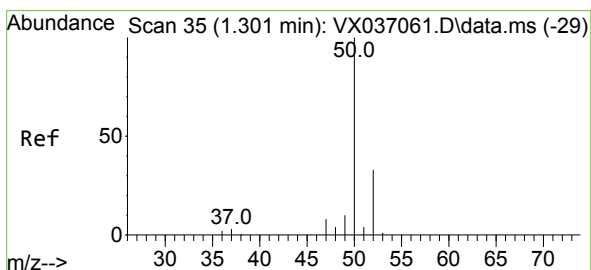
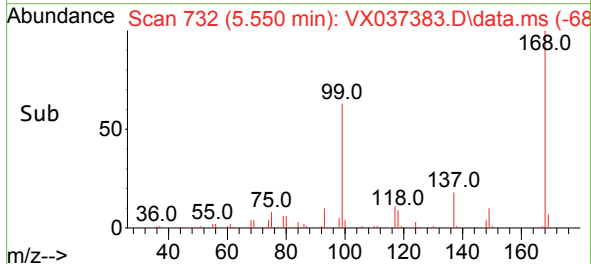
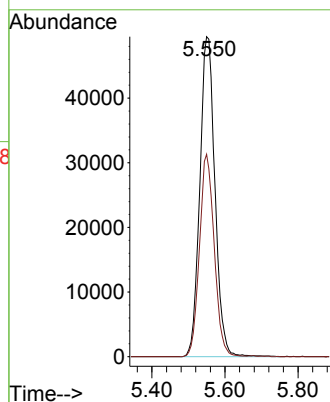
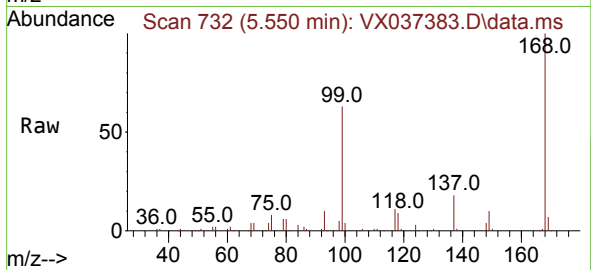
MW-10B-45-082823-H

Tgt Ion:168 Resp: 142572

Ion Ratio Lower Upper

168 100

99 63.3 56.6 85.0



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.301 min Scan# 35

Delta R.T. 0.000 min

Lab File: VX037383.D

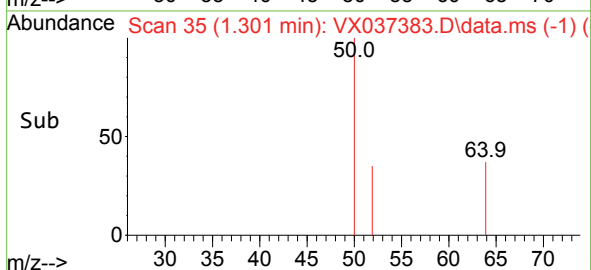
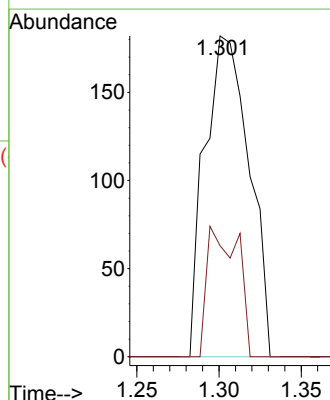
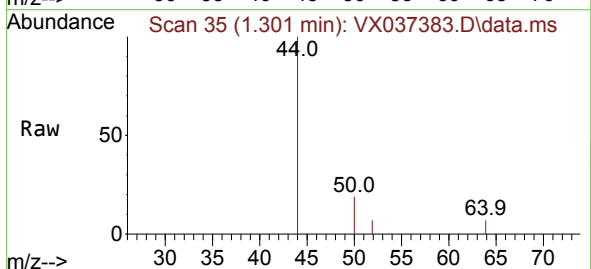
Acq: 30 Aug 2023 12:51

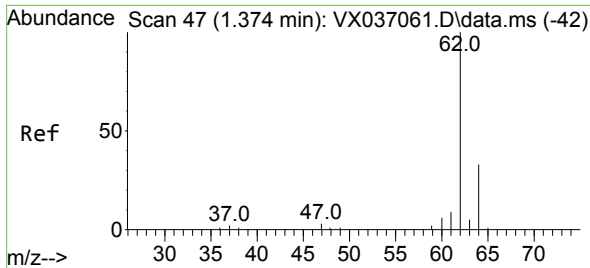
Tgt Ion: 50 Resp: 341

Ion Ratio Lower Upper

50 100

52 34.6 25.5 38.3

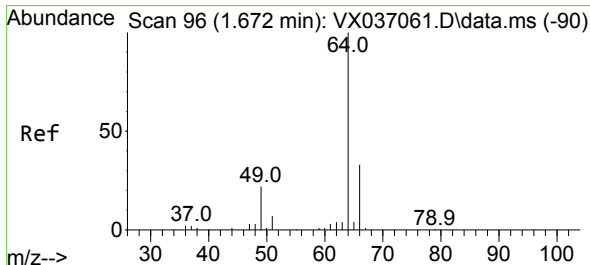
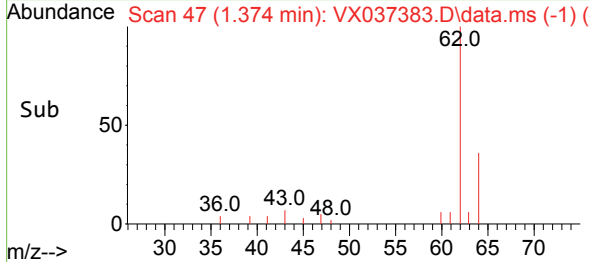
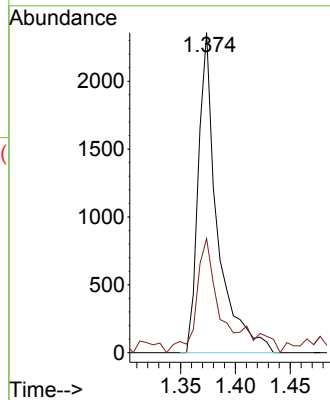
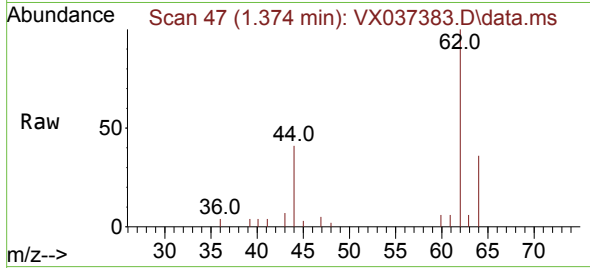




#4
 Vinyl Chloride
 Concen: 1.810 ug/l
 RT: 1.374 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VX037383.D
 Acq: 30 Aug 2023 12:51

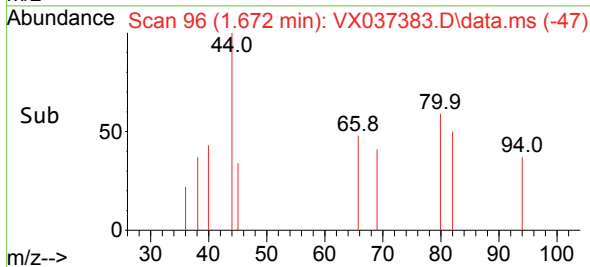
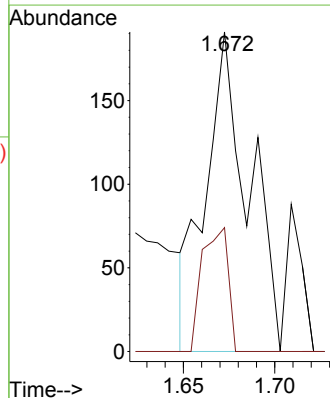
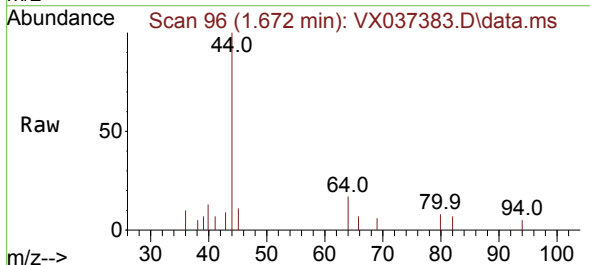
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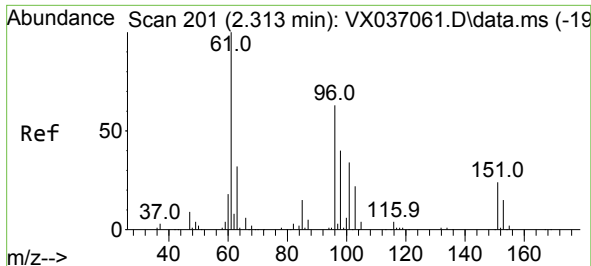
Tgt Ion: 62 Resp: 2854
 Ion Ratio Lower Upper
 62 100
 64 35.7 25.4 38.0



#6
 Chloroethane
 Concen: 0.337 ug/l
 RT: 1.672 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VX037383.D
 Acq: 30 Aug 2023 12:51

Tgt Ion: 64 Resp: 313
 Ion Ratio Lower Upper
 64 100
 66 38.7 25.1 37.7#





#12

1,1-Dichloroethene

Concen: 22.767 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX037383.D

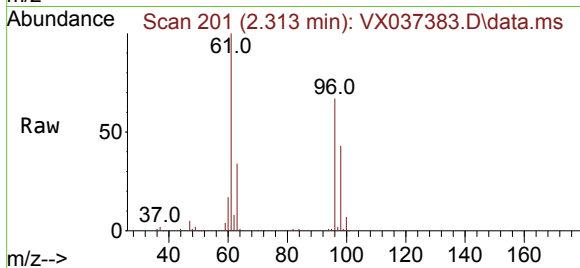
Acq: 30 Aug 2023 12:51

Instrument :

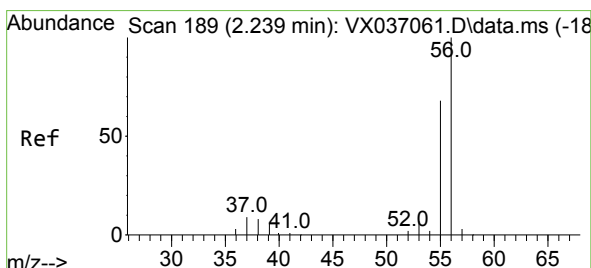
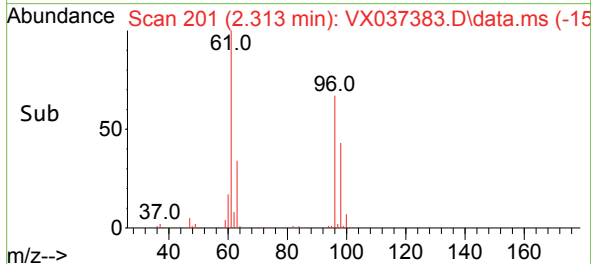
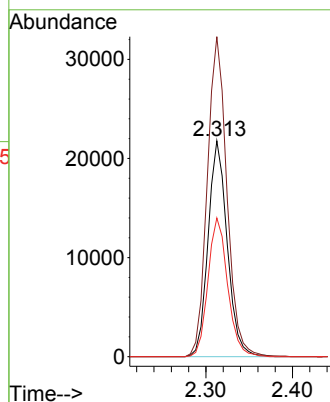
MSVOA_X

ClientSampleId :

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Tgt Ion:	96	Resp:	33413
Ion	Ratio	Lower	Upper
96	100		
61	148.2	144.6	216.8
98	64.3	50.4	75.6



#13

Acrolein

Concen: 0.256 ug/l

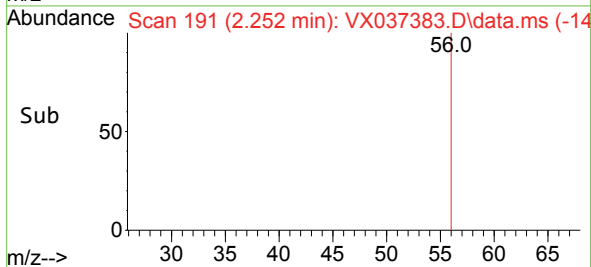
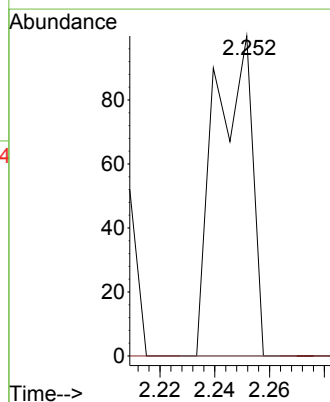
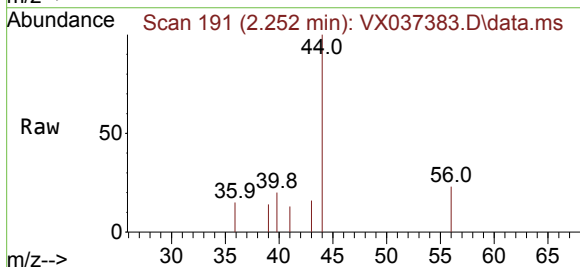
RT: 2.252 min Scan# 191

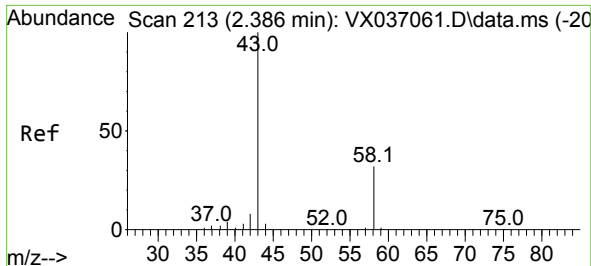
Delta R.T. 0.012 min

Lab File: VX037383.D

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Tgt Ion:	56	Resp:	94
Ion	Ratio	Lower	Upper
56	100		
55	0.0	57.1	85.7#

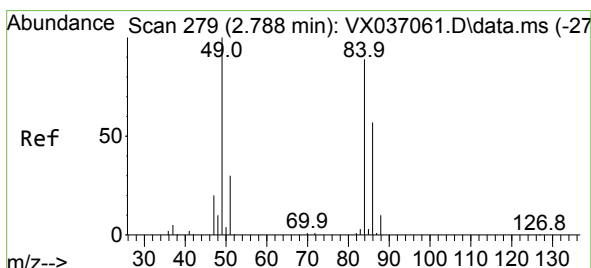
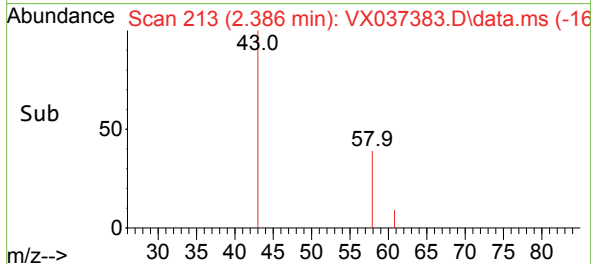
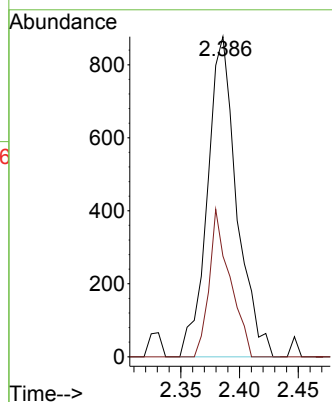
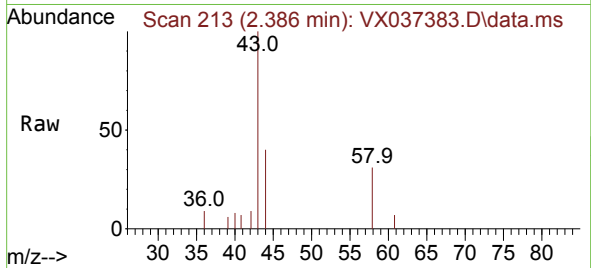




#16
Acetone
Concen: 1.898 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

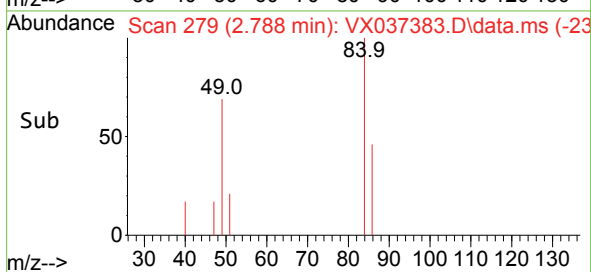
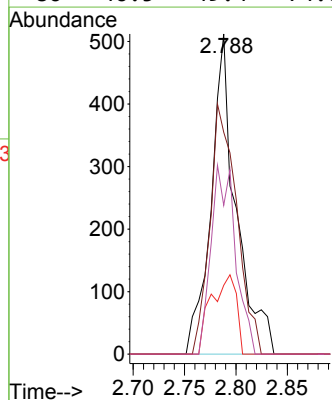
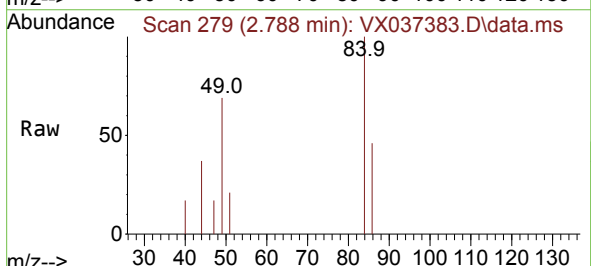
Instrument :
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ClientSampleId :
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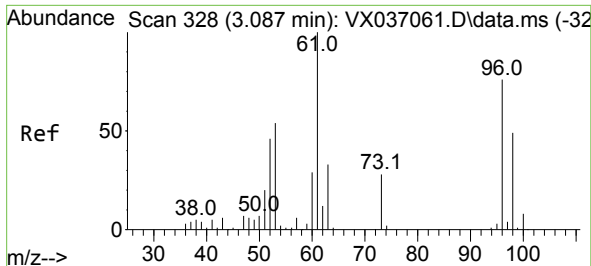
Tgt Ion: 43 Resp: 1526
Ion Ratio Lower Upper
43 100
58 31.5 21.9 32.9



#20
Methylene Chloride
Concen: 0.482 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX037383.D
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Tgt Ion: 84 Resp: 867
Ion Ratio Lower Upper
84 100
49 69.3 103.6 155.4#
51 21.5 33.8 50.6#
86 46.5 49.4 74.0#

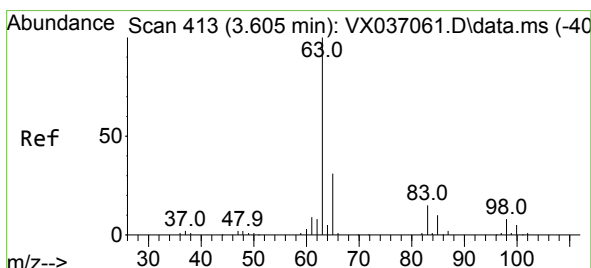
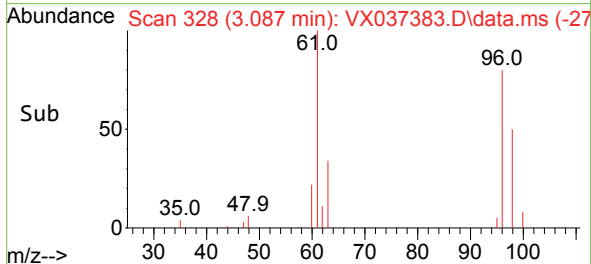
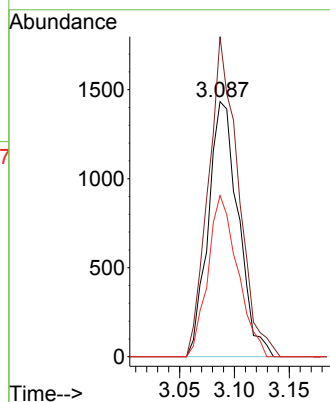
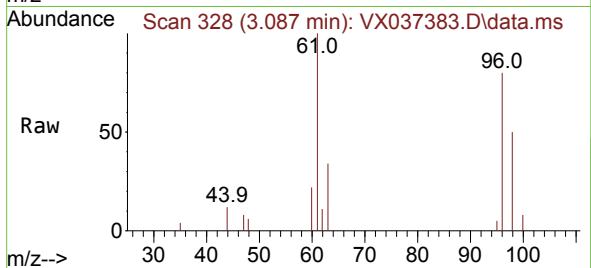




#21
trans-1,2-Dichloroethene
Concen: 1.635 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

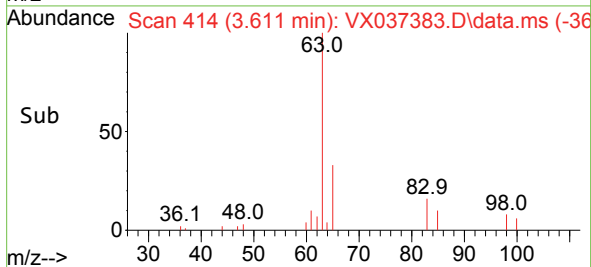
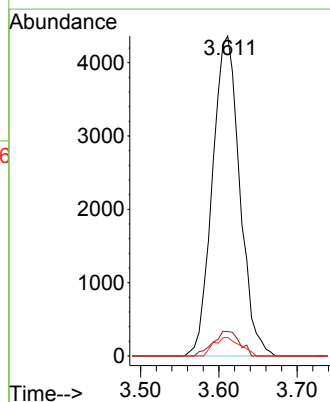
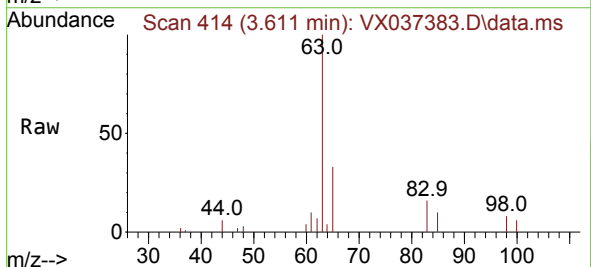
Instrument :
MSVOA_X
ClientSampleId :
MW-10B-45-082823-H

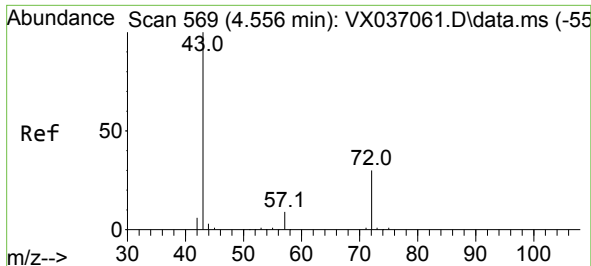
Tgt Ion: 96 Resp: 2728
Ion Ratio Lower Upper
96 100
61 125.5 119.2 178.8
98 63.2 48.7 73.1



#24
1,1-Dichloroethane
Concen: 3.615 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion: 63 Resp: 10568
Ion Ratio Lower Upper
63 100
98 7.6 3.3 9.8
100 5.8 2.1 6.5

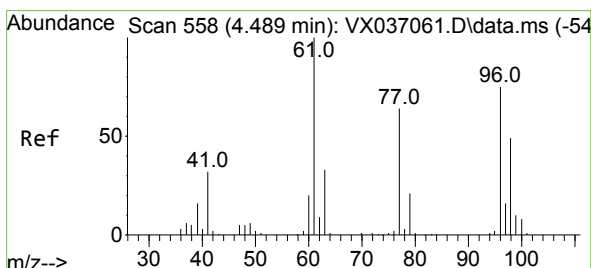
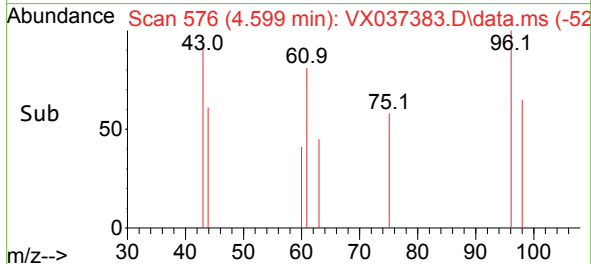
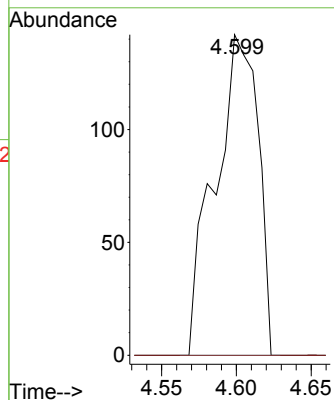
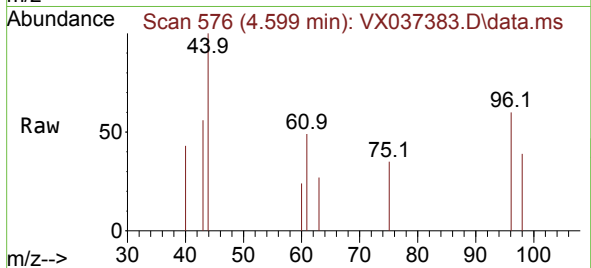




#25
2-Butanone
Concen: 0.235 ug/l
RT: 4.599 min Scan# 51
Delta R.T. 0.043 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

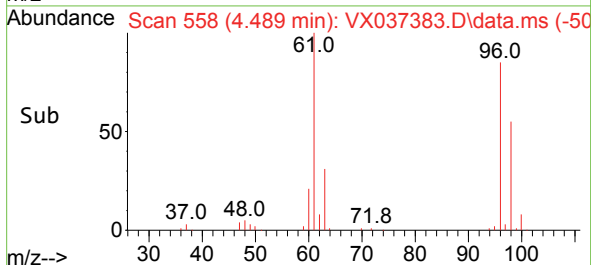
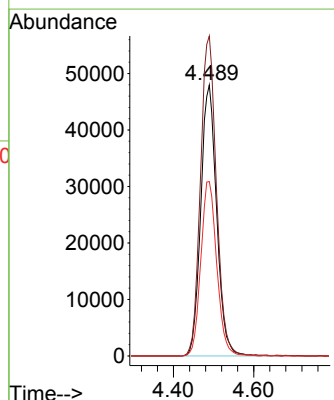
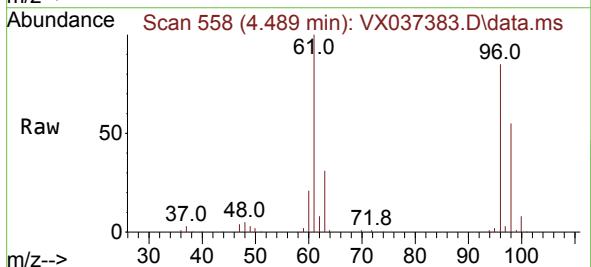
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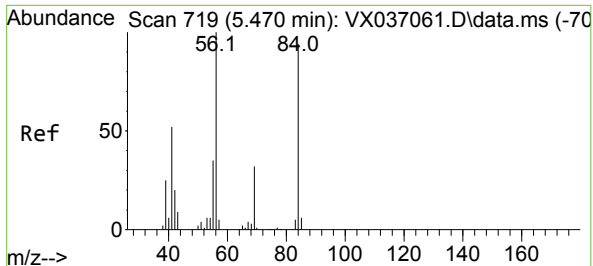
Tgt Ion: 43 Resp: 285
Ion Ratio Lower Upper
43 100
72 0.0 19.4 29.2#



#27
cis-1,2-Dichloroethene
Concen: 66.949 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion: 96 Resp: 131678
Ion Ratio Lower Upper
96 100
61 118.7 0.0 312.2
98 64.6 0.0 129.0

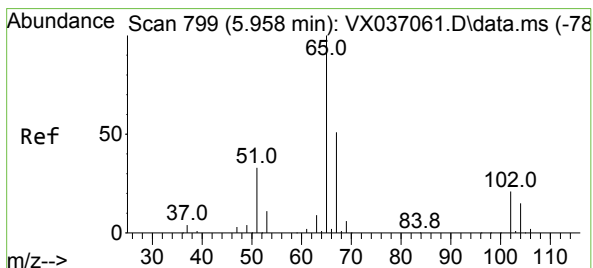
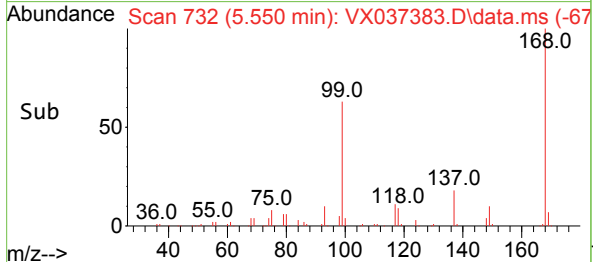
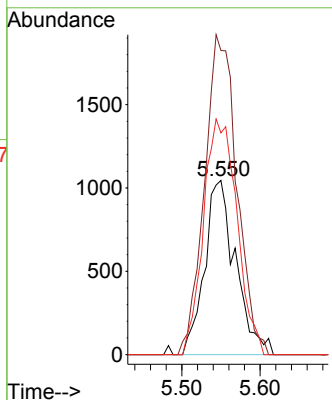
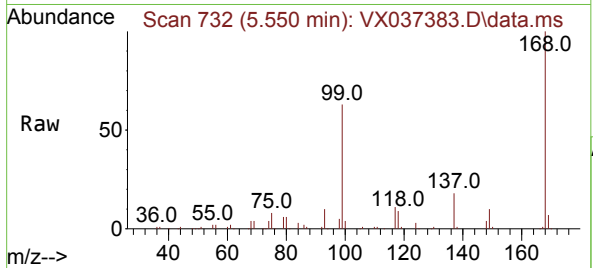




#31
Cyclohexane
Concen: 1.242 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

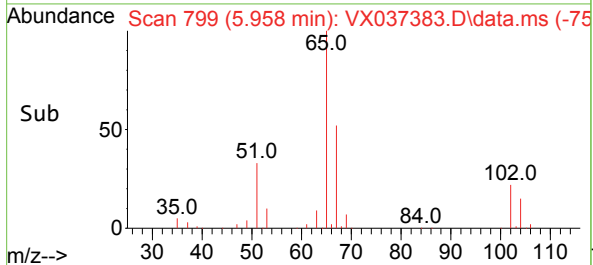
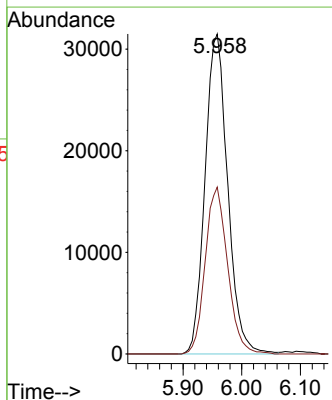
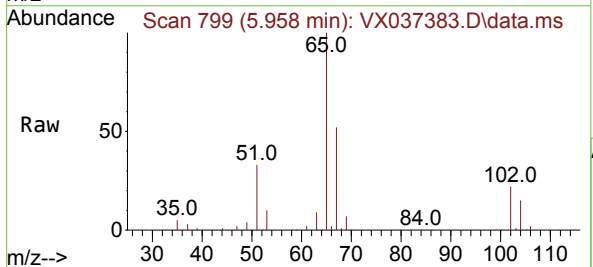
Instrument :
MSVOA_X
ClientSampleId :
MW-10B-45-082823-H

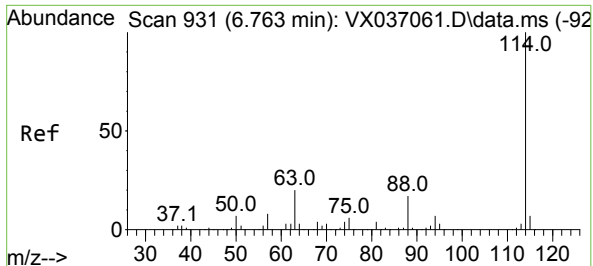
Tgt Ion: 56 Resp: 2871
Ion Ratio Lower Upper
56 100
69 174.6 23.4 35.2#
84 127.3 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 41.032 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion: 65 Resp: 84339
Ion Ratio Lower Upper
65 100
67 51.6 0.0 100.2

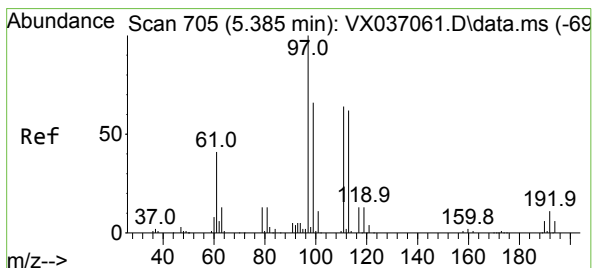
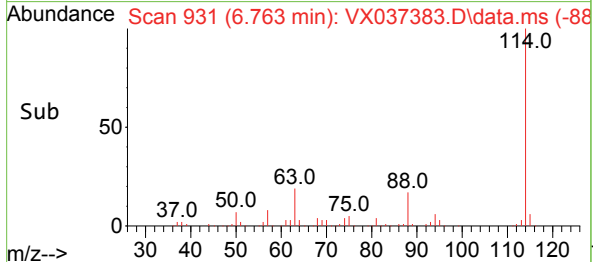
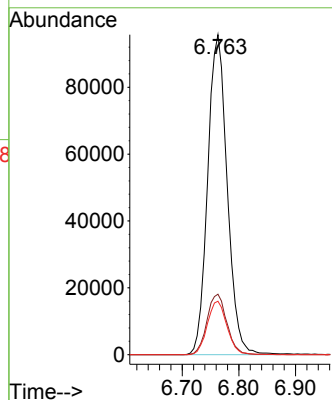
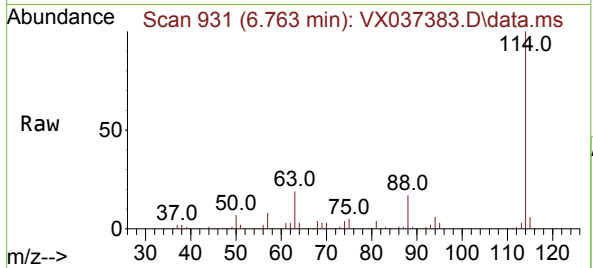




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

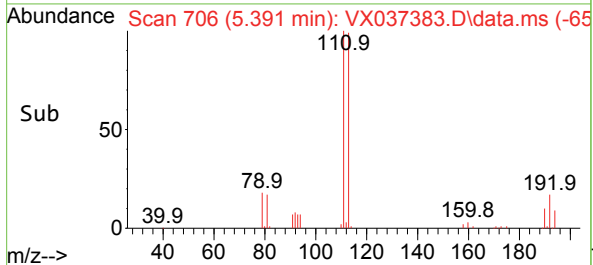
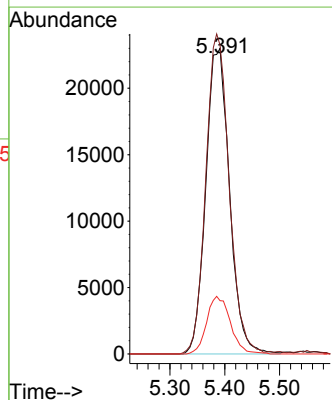
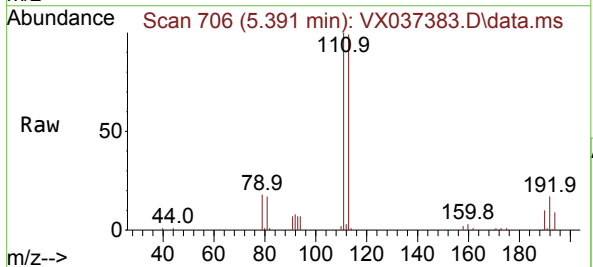
Instrument :
MSVOA_X
ClientSampleId :
MW-10B-45-082823-H

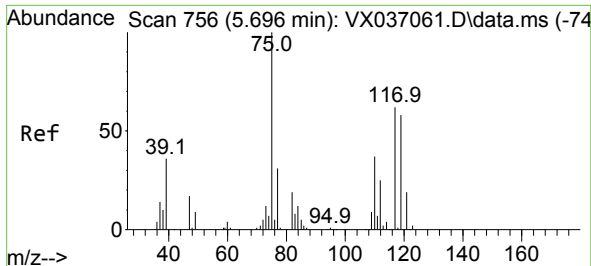
Tgt Ion:114 Resp: 229247
Ion Ratio Lower Upper
114 100
63 18.9 0.0 45.0
88 16.7 0.0 36.6



#35
Dibromofluoromethane
Concen: 45.568 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion:113 Resp: 69184
Ion Ratio Lower Upper
113 100
111 102.8 82.9 124.3
192 18.8 13.3 19.9

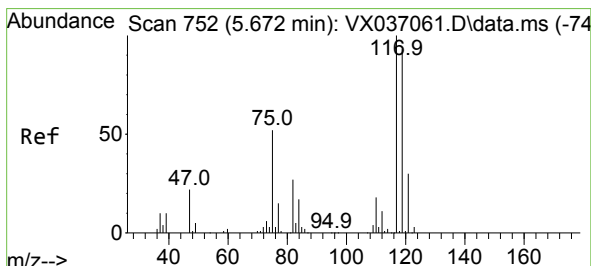
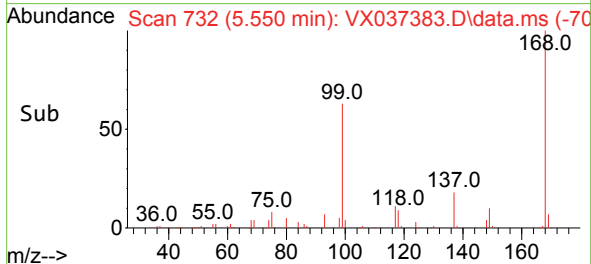
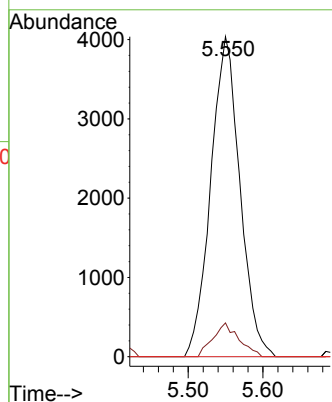
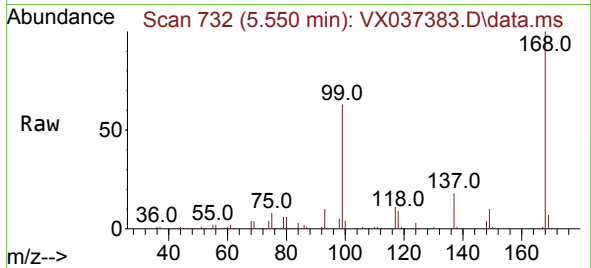




#36
1,1-Dichloropropene
Concen: 5.072 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

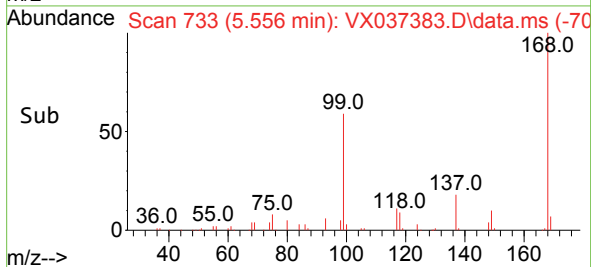
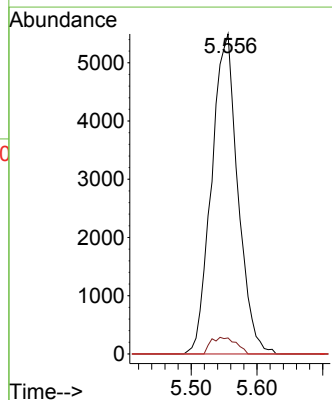
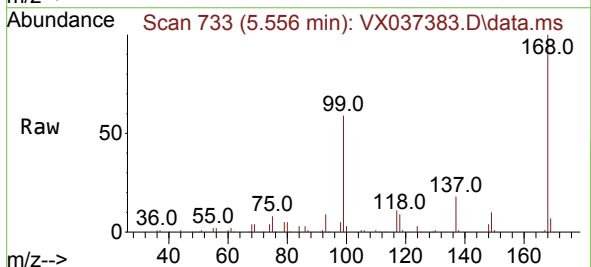
Instrument :
MSVOA_X
ClientSampleId :
MW-10B-45-082823-H

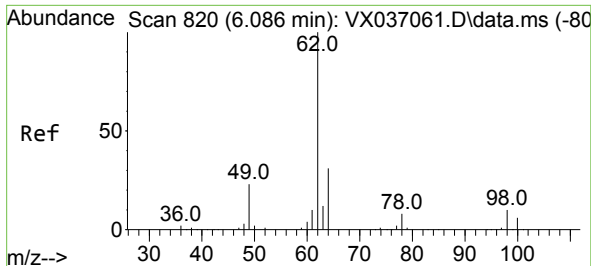
Tgt Ion: 75 Resp: 10940
Ion Ratio Lower Upper
75 100
110 9.4 17.0 50.9#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 6.539 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.116 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion: 117 Resp: 15322
Ion Ratio Lower Upper
117 100
119 5.0 78.2 117.2#
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 4.264 ug/l

RT: 6.092 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

Instrument :

MSVOA_X

ClientSampleId :

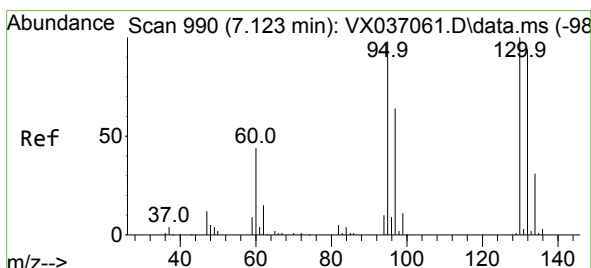
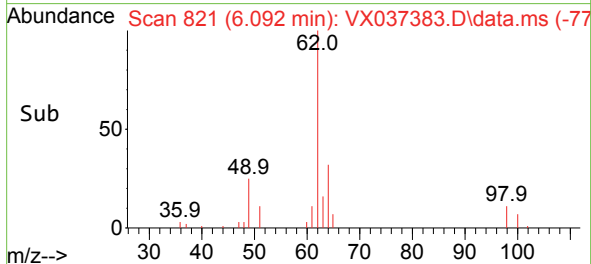
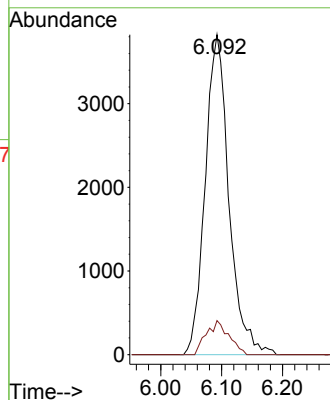
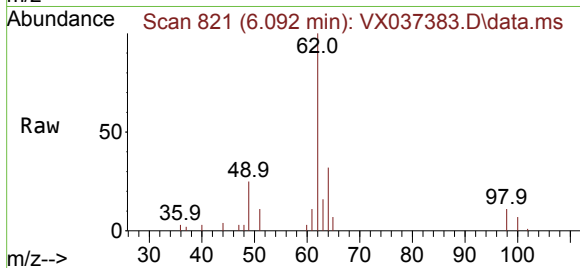
MW-10B-45-082823-H

Tgt Ion: 62 Resp: 10344

Ion Ratio Lower Upper

62 100

98 10.1 0.0 16.0



#44

Trichloroethene

Concen: 59.932 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX037383.D

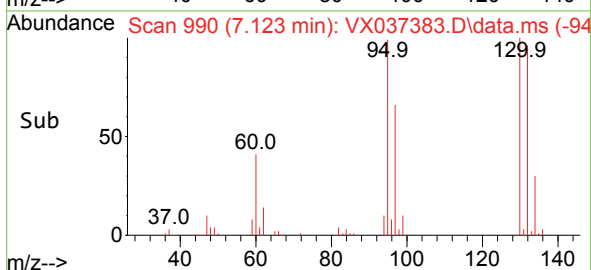
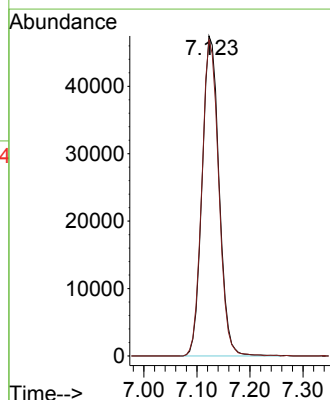
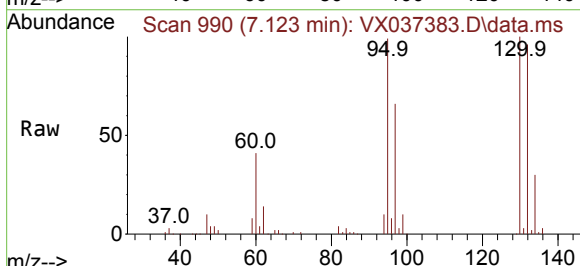
Acq: 30 Aug 2023 12:51

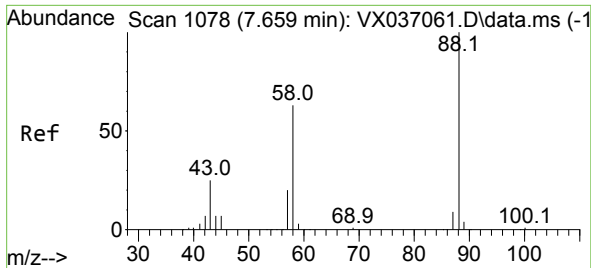
Tgt Ion: 130 Resp: 105131

Ion Ratio Lower Upper

130 100

95 98.7 0.0 204.4

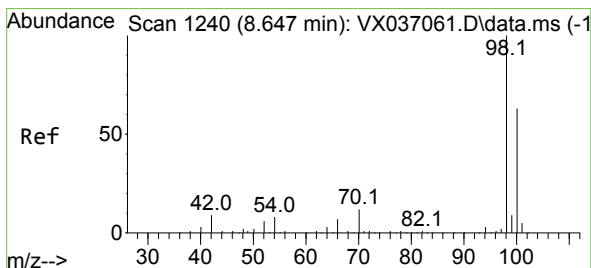
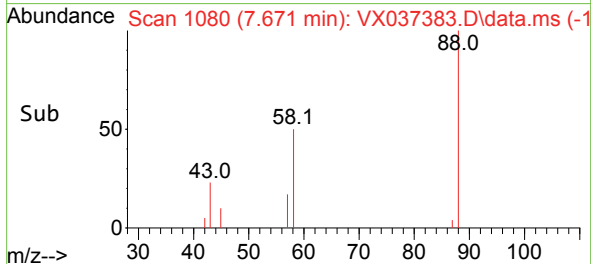
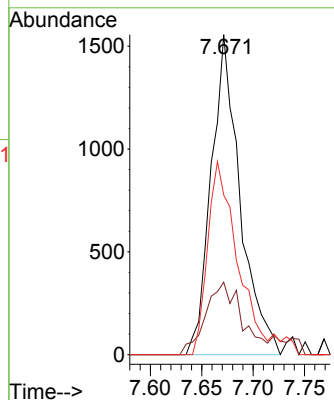
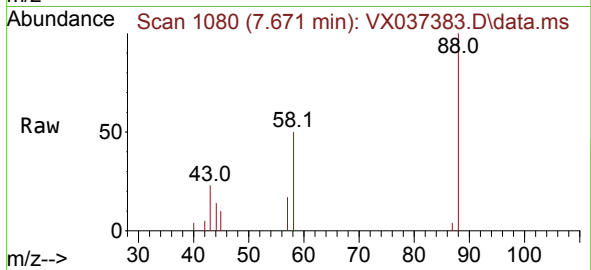




#49
1,4-Dioxane
Concen: 66.275 ug/l
RT: 7.671 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

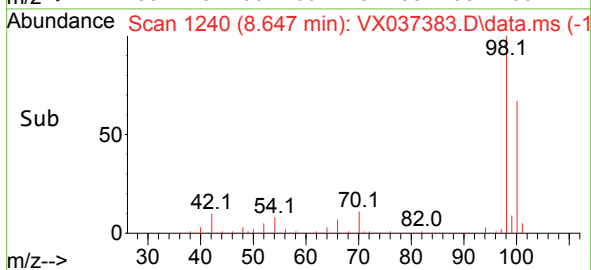
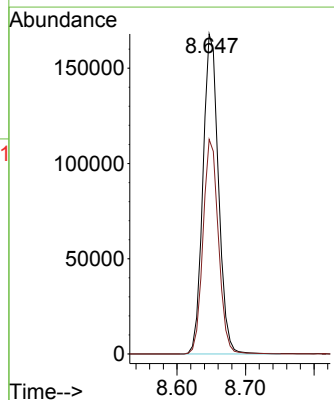
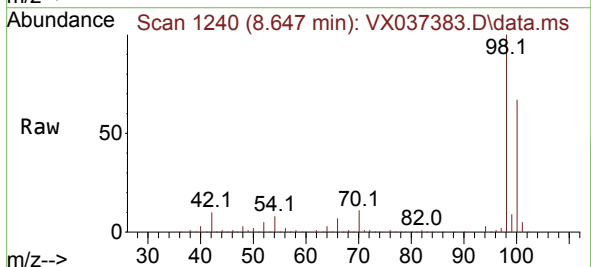
Instrument :
MSVOA_X
ClientSampleId :
MW-10B-45-082823-H

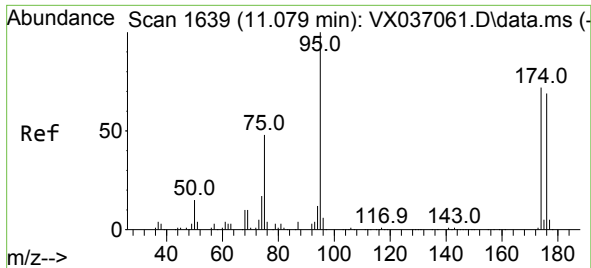
Tgt Ion: 88 Resp: 3045
Ion Ratio Lower Upper
88 100
43 28.5 0.0 0.0#
58 65.3 60.1 90.1



#50
Toluene-d8
Concen: 48.125 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion: 98 Resp: 265038
Ion Ratio Lower Upper
98 100
100 66.7 53.1 79.7

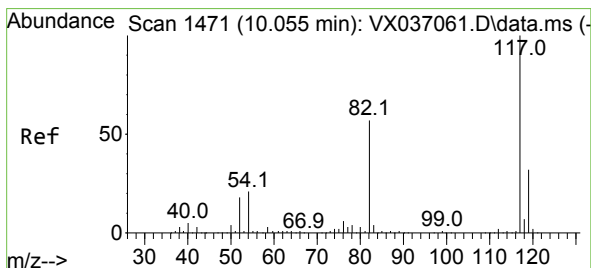
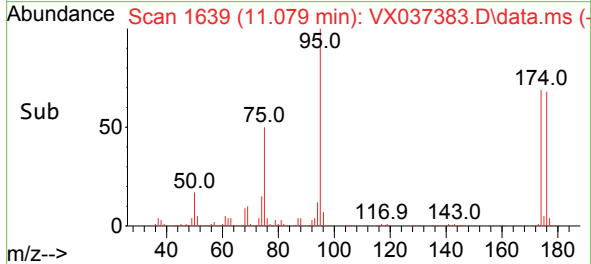
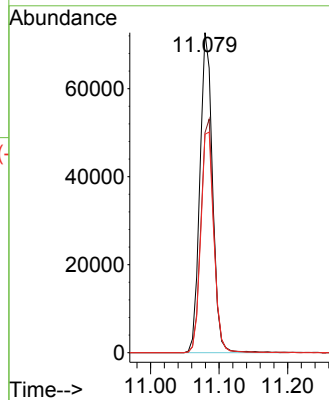
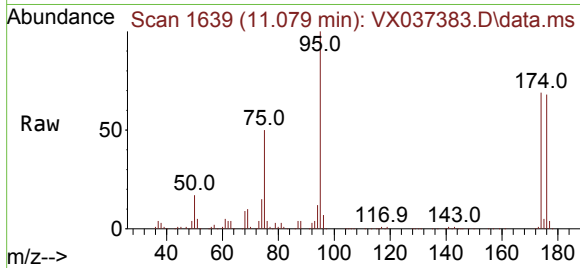




#62
4-Bromofluorobenzene
Concen: 43.134 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

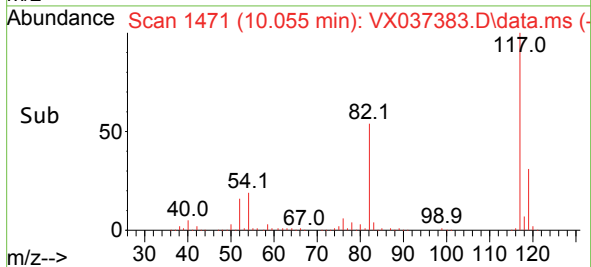
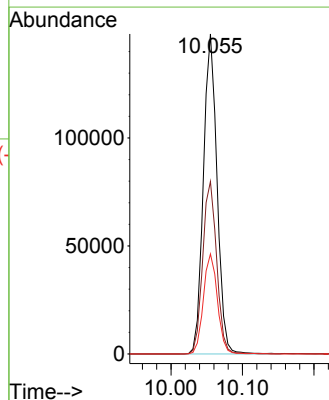
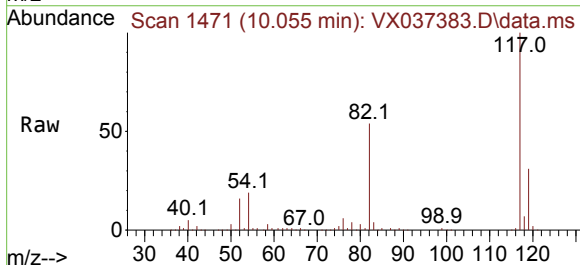
Instrument :
MSVOA_X
ClientSampleId :
MW-10B-45-082823-H

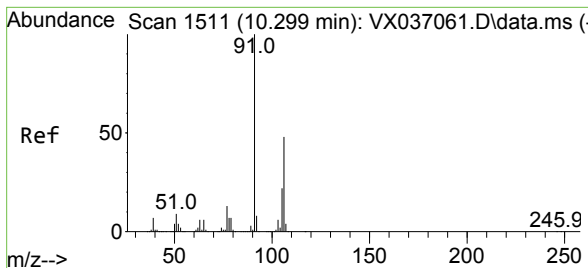
Tgt Ion: 95 Resp: 93353
Ion Ratio Lower Upper
95 100
174 74.3 0.0 135.6
176 71.7 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion: 117 Resp: 196801
Ion Ratio Lower Upper
117 100
82 53.9 46.2 69.4
119 31.3 25.5 38.3

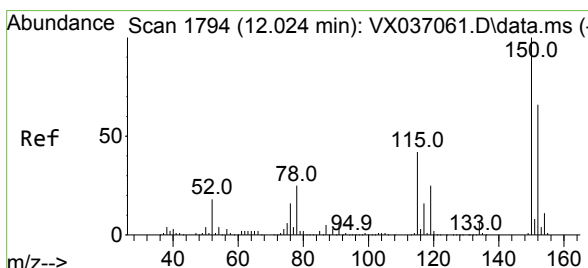
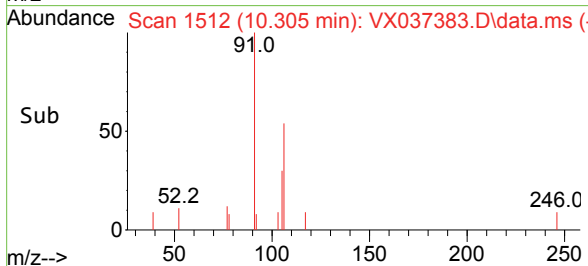
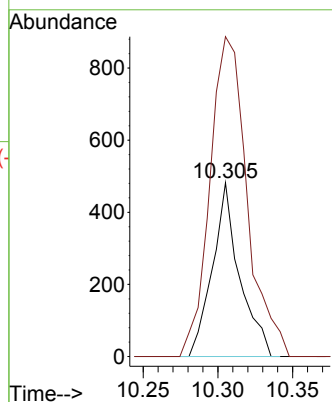
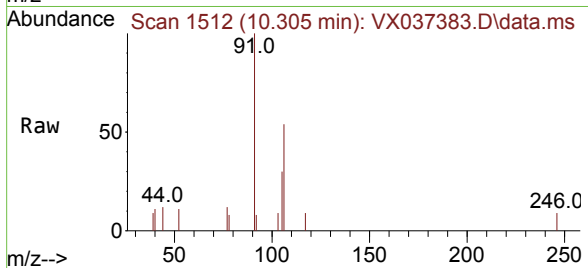




#68
m/p-Xylenes
Concen: 0.215 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

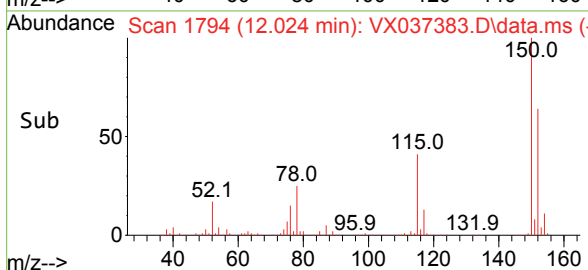
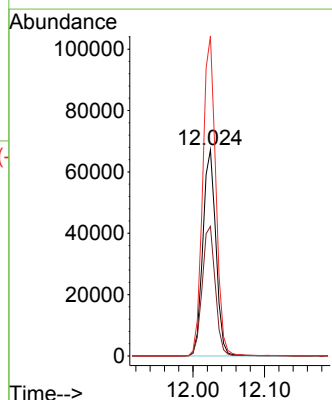
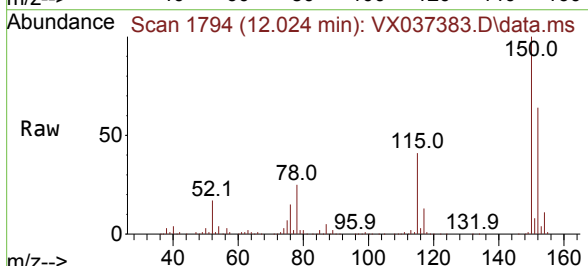
Instrument :
MSVOA_X
ClientSampleId :
MW-10B-45-082823-H

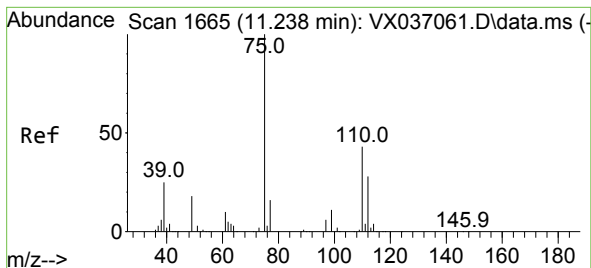
Tgt Ion:106 Resp: 607
Ion Ratio Lower Upper
106 100
91 253.0 165.5 248.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037383.D
Acq: 30 Aug 2023 12:51

Tgt Ion:152 Resp: 85246
Ion Ratio Lower Upper
152 100
115 63.3 43.3 129.9
150 155.1 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 25.031 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

Instrument :

MSVOA_X

ClientSampleId :

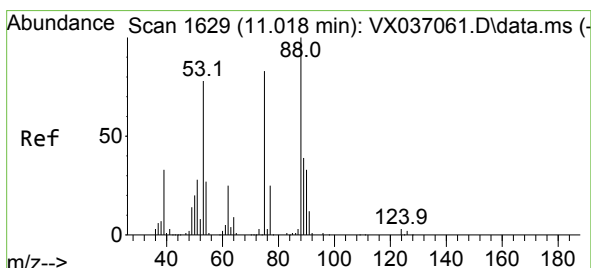
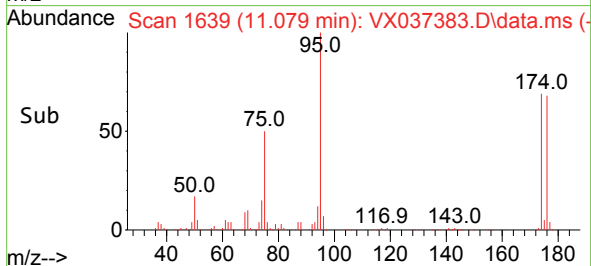
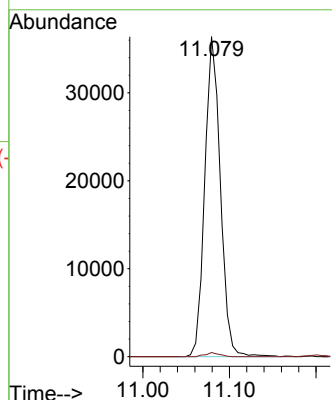
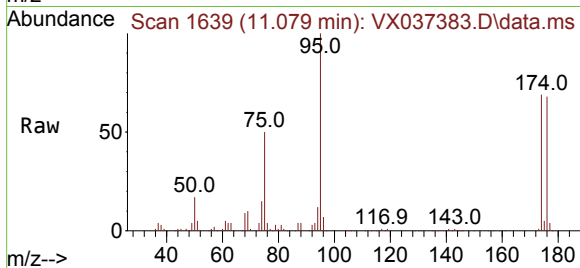
MW-10B-45-082823-H

Tgt Ion: 75 Resp: 45443

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.913 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

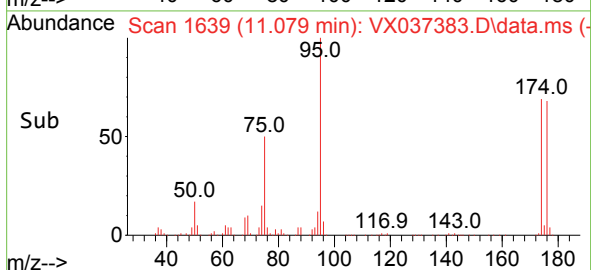
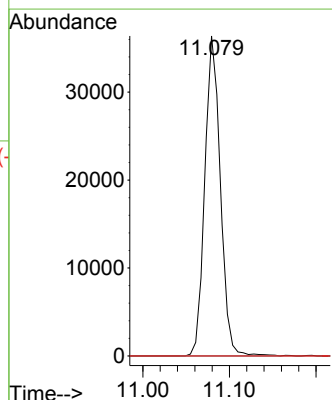
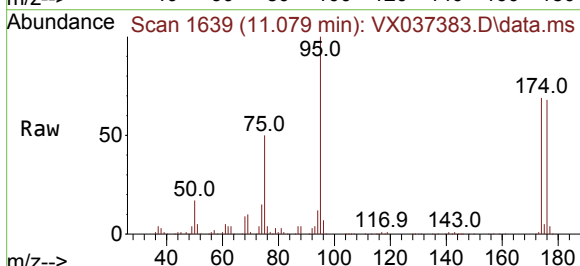
Tgt Ion: 75 Resp: 45443

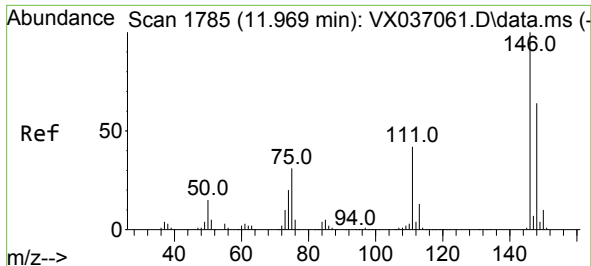
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#87

1,3-Dichlorobenzene

Concen: 0.221 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

Instrument :

MSVOA_X

ClientSampleId :

MW-10B-45-082823-H

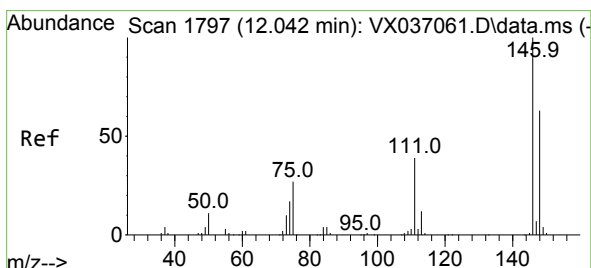
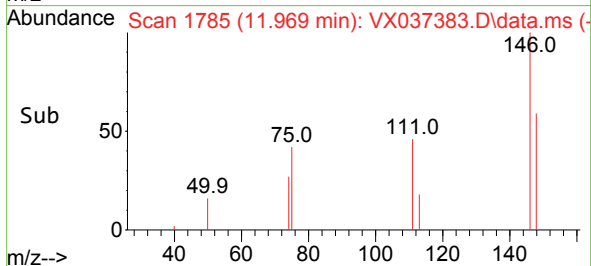
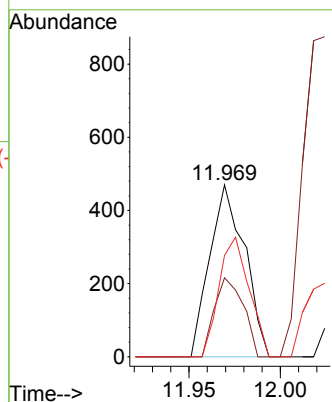
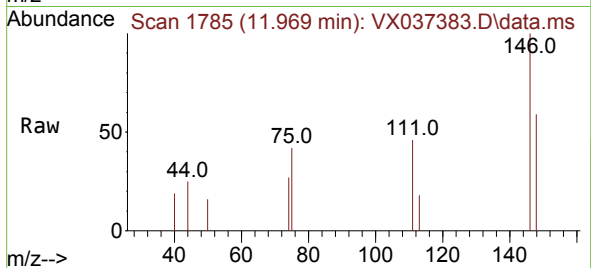
Tgt Ion:146 Resp: 625

Ion Ratio Lower Upper

146 100

111 37.9 22.1 66.1

148 60.0 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.214 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.073 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

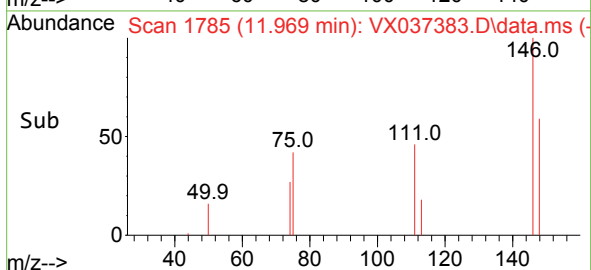
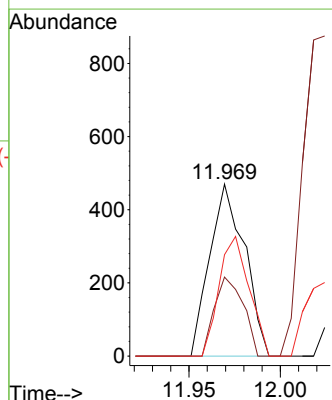
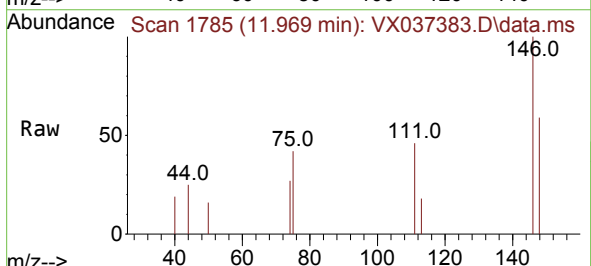
Tgt Ion:146 Resp: 625

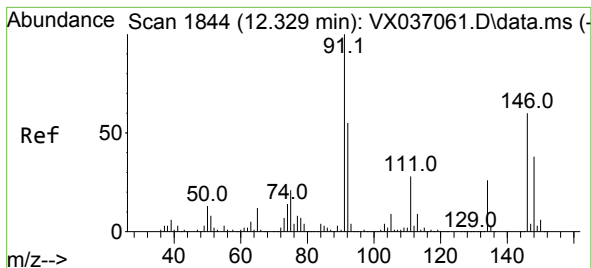
Ion Ratio Lower Upper

146 100

111 37.9 21.3 63.7

148 60.0 31.8 95.4





#89

n-Butylbenzene

Concen: 0.206 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

Instrument :

MSVOA_X

ClientSampleId :

MW-10B-45-082823-H

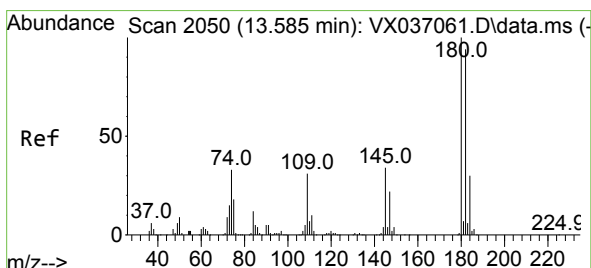
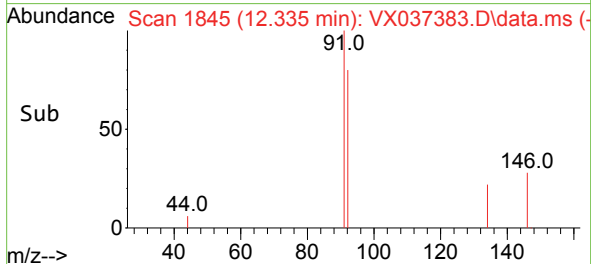
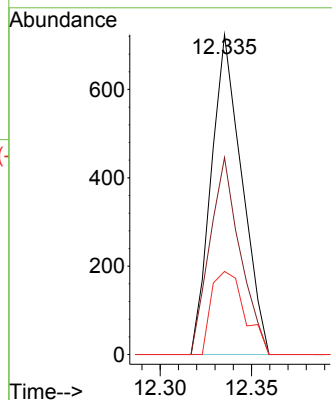
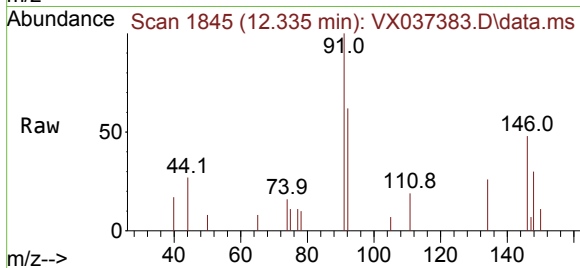
Tgt Ion: 91 Resp: 848

Ion Ratio Lower Upper

91 100

92 61.0 27.4 82.0

134 28.3 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.418 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

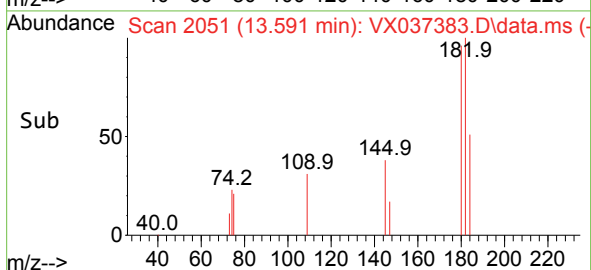
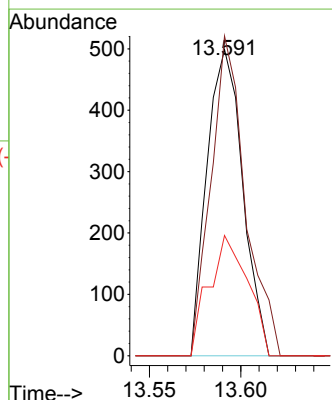
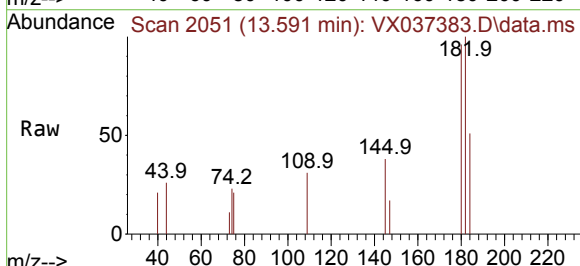
Tgt Ion: 180 Resp: 679

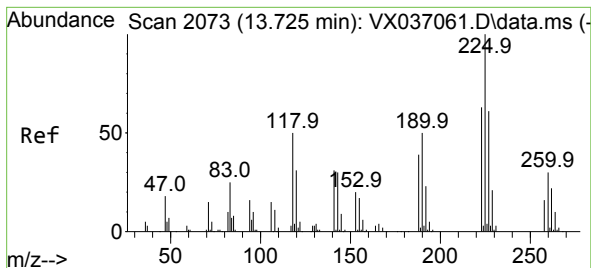
Ion Ratio Lower Upper

180 100

182 100.4 48.3 144.8

145 42.7 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.427 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

Instrument :

MSVOA_X

ClientSampleId :

MW-10B-45-082823-H

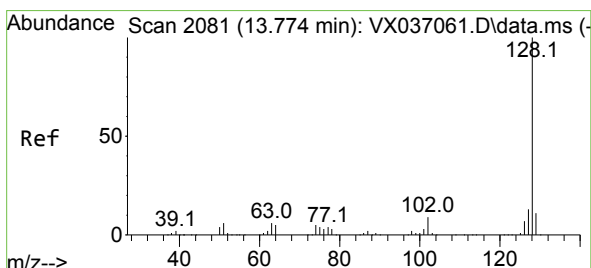
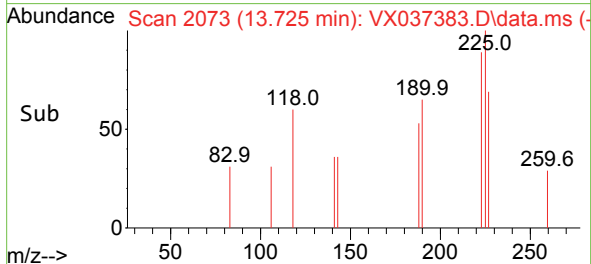
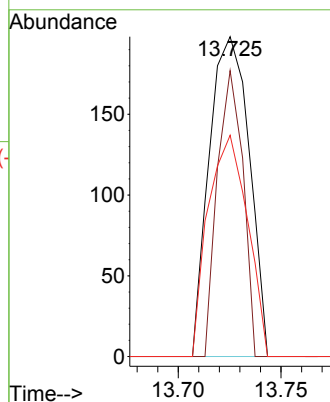
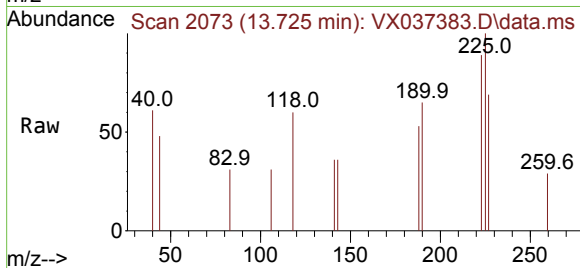
Tgt Ion:225 Resp: 268

Ion Ratio Lower Upper

225 100

223 56.7 31.1 93.2

227 68.3 32.5 97.5



#95

Naphthalene

Concen: 0.358 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX037383.D

Acq: 30 Aug 2023 12:51

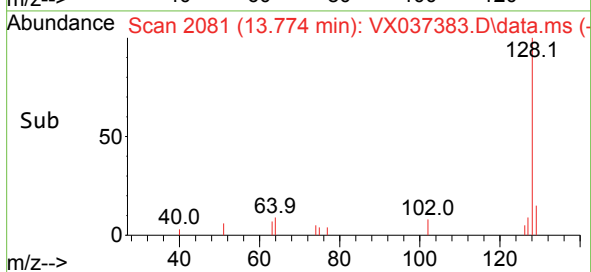
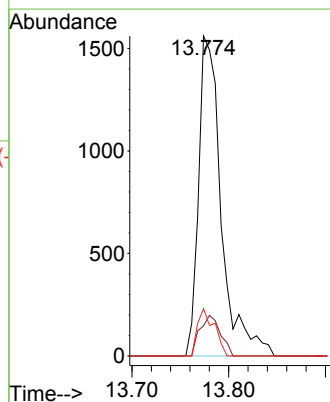
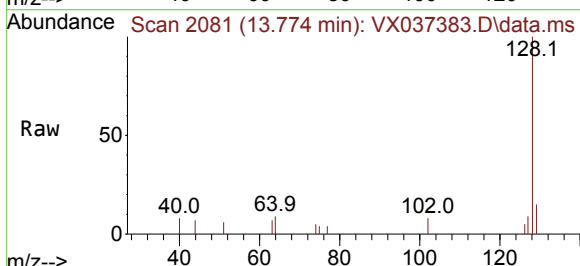
Tgt Ion:128 Resp: 2548

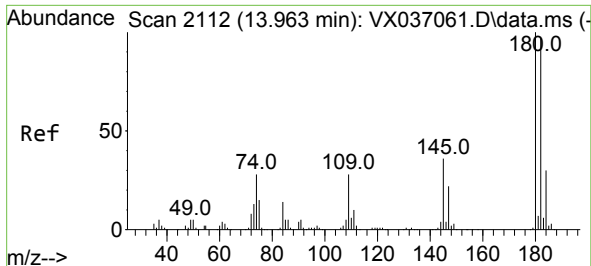
Ion Ratio Lower Upper

128 100

127 11.5 10.3 15.5

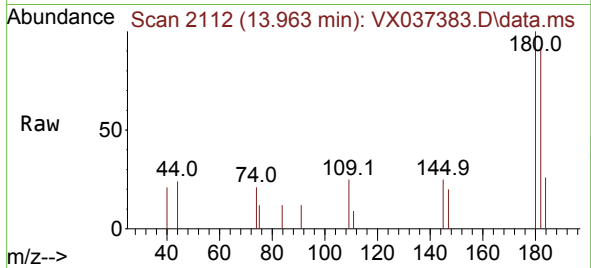
129 10.9 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.379 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. 0.000 min
 Lab File: VX037383.D
 Acq: 30 Aug 2023 12:51

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-10B-45-082823-H



Tgt Ion:	180	Resp:	612
Ion	Ratio	Lower	Upper
180	100		
182	109.0	46.9	140.6
145	31.2	17.8	53.5

