

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
 Data File : VN077452.D
 Acq On : 25 Apr 2023 06:53
 Operator : JC\MD
 Sample : PB152304ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#03

Quant Time: Apr 25 08:42:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

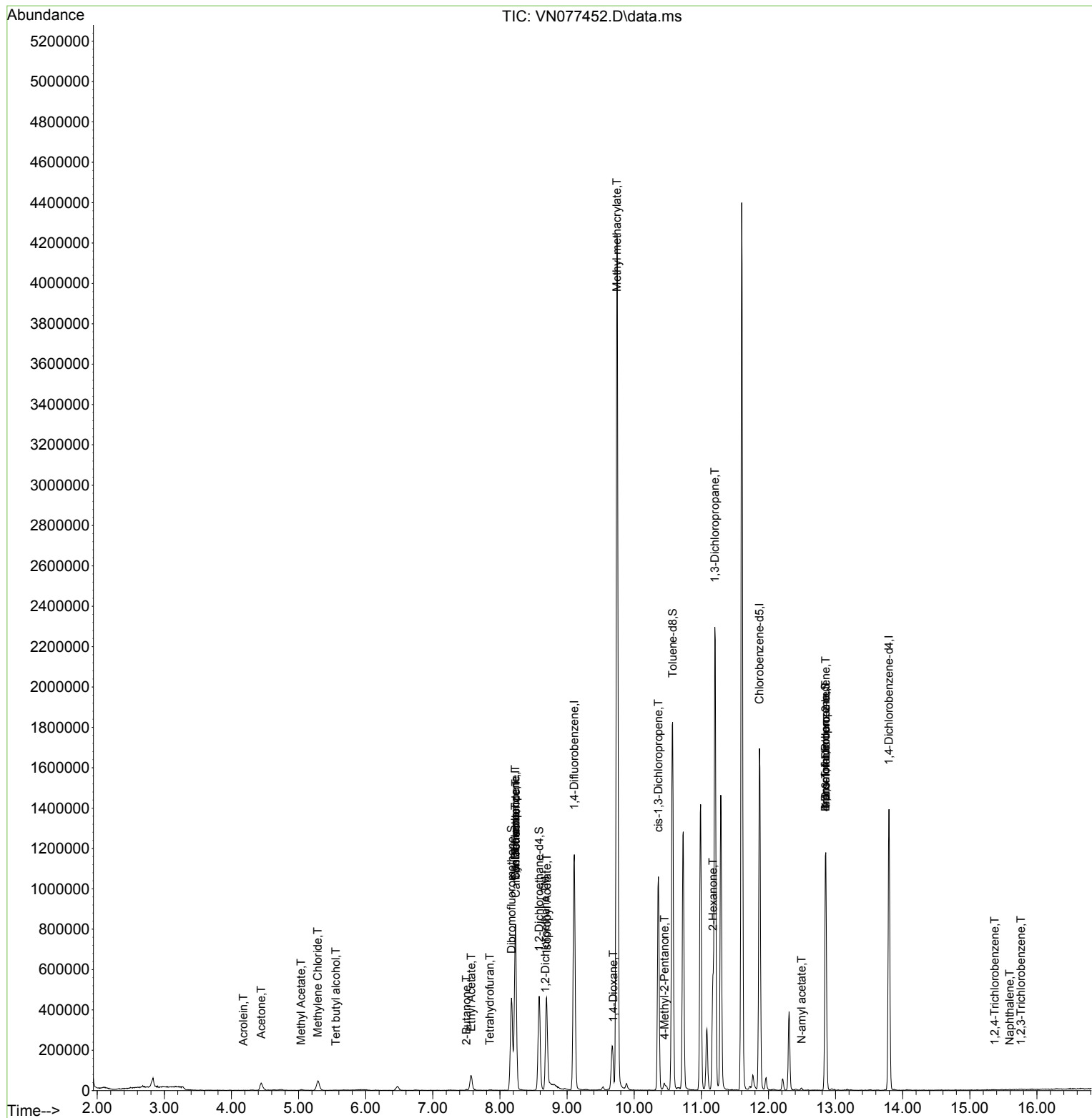
Internal Standards						
1) Pentafluorobenzene	8.231	168	571478	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1086568	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1017183	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	369974	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	382197	51.253	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.500%			
35) Dibromofluoromethane	8.172	113	327814	50.196	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.400%			
50) Toluene-d8	10.572	98	1342001	53.616	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.240%			
62) 4-Bromofluorobenzene	12.848	95	432600	52.826	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 105.660%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.555	59	1443	1.205	ug/l #	72
13) Acrolein	4.178	56	283	0.238	ug/l #	16
16) Acetone	4.443	43	66442	28.006	ug/l	94
18) Methyl Acetate	5.037	43	5413	0.591	ug/l	92
20) Methylene Chloride	5.284	84	39444	5.243	ug/l #	92
25) 2-Butanone	7.501	43	5733	1.704	ug/l #	68
29) Tetrahydrofuran	7.848	42	958	0.454	ug/l #	58
31) Cyclohexane	8.231	56	14444	1.367	ug/l #	37
36) 1,1-Dichloropropene	8.231	75	49289	5.224	ug/l #	48
37) Ethyl Acetate	7.572	43	103927	14.496	ug/l	96
38) Carbon Tetrachloride	8.237	117	63555	6.105	ug/l #	15
42) 1,2-Dichloroethane	8.678	62	4159	0.421	ug/l #	73
43) Isopropyl Acetate	8.695	43	521318	42.031	ug/l #	87
48) Methyl methacrylate	9.742	41	373360	66.129	ug/l #	30
49) 1,4-Dioxane	9.690	88	54	0.381	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	33858	4.654	ug/l #	67
54) cis-1,3-Dichloropropene	10.360	75	224450	19.270	ug/l #	60
57) 1,3-Dichloropropane	11.201	76	28940	2.399	ug/l #	42
59) 2-Hexanone	11.172	43	407224	77.006	ug/l #	19
71) Bromoform	12.848	173	1448	0.283	ug/l #	28
74) N-amyl acetate	12.495	43	5085	0.500	ug/l #	47
76) 1,2,3-Trichloropropane	12.854	75	231113	26.863	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	231113	75.893	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.372	180	328	0.920	ug/l #	31
95) Naphthalene	15.595	128	1838	1.326	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.760	180	171	0.543	ug/l #	1

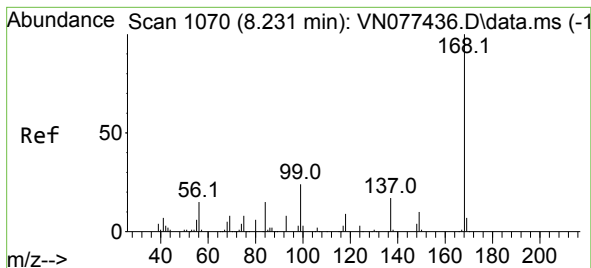
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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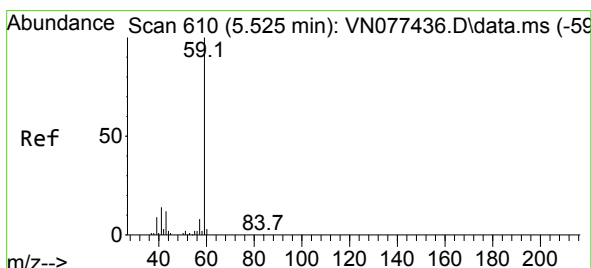
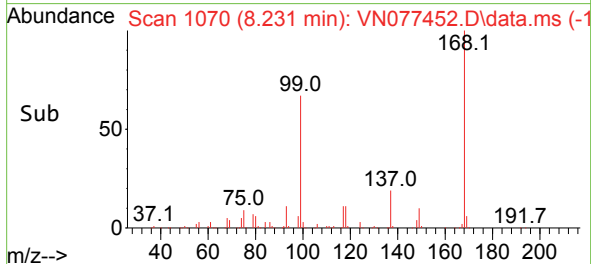
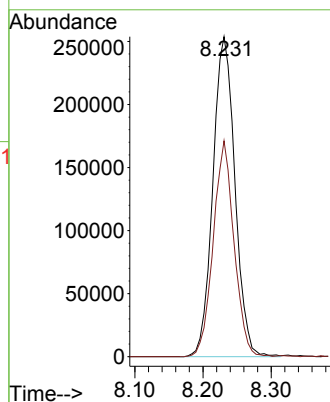
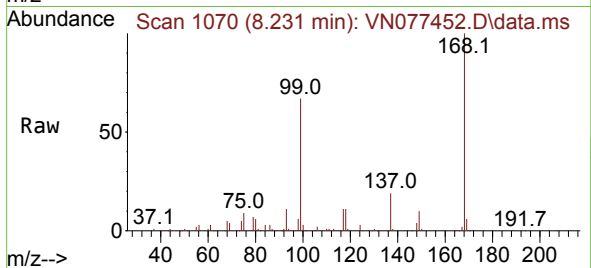




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

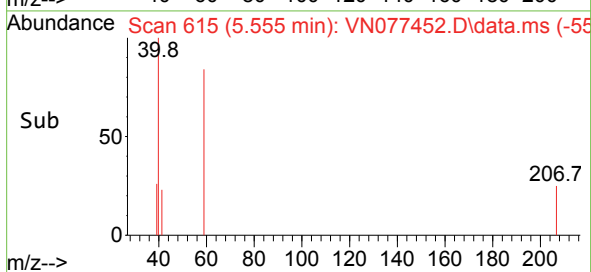
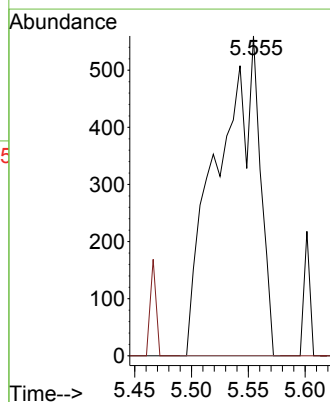
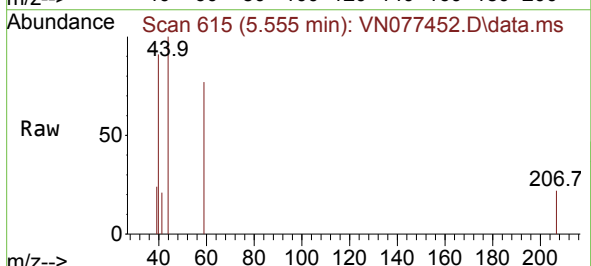
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

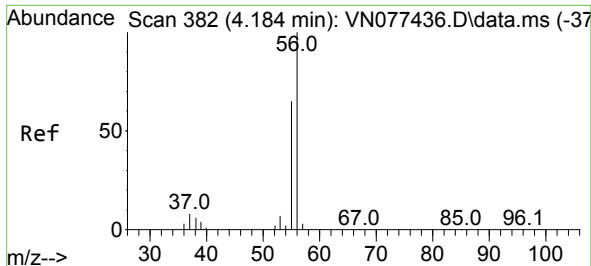
Tgt Ion:168 Resp: 571478
Ion Ratio Lower Upper
168 100
99 67.4 53.0 79.6



#11
Tert butyl alcohol
Concen: 1.205 ug/l
RT: 5.555 min Scan# 615
Delta R.T. 0.030 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 59 Resp: 1443
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

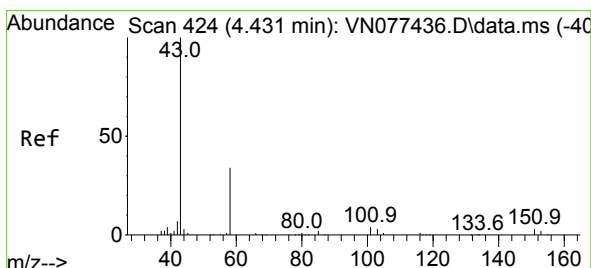
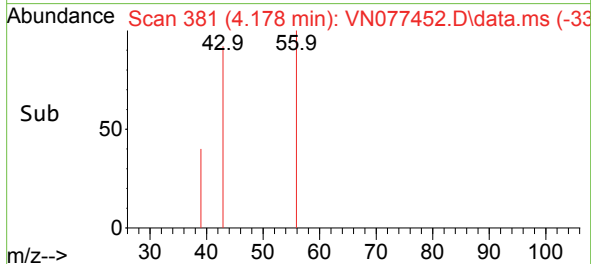
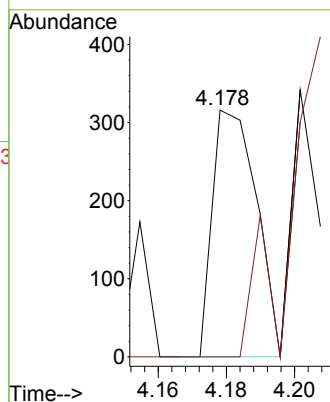
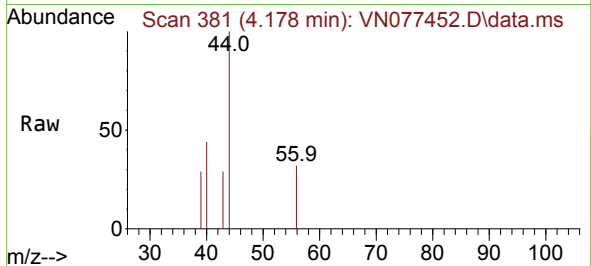




#13
Acrolein
Concen: 0.238 ug/l
RT: 4.178 min Scan# 381
Delta R.T. -0.006 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

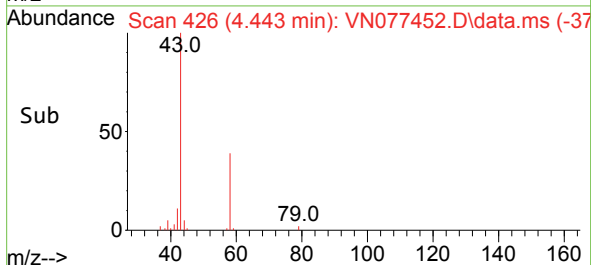
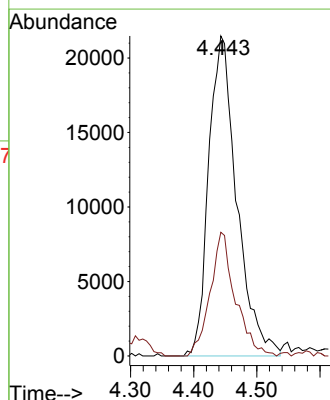
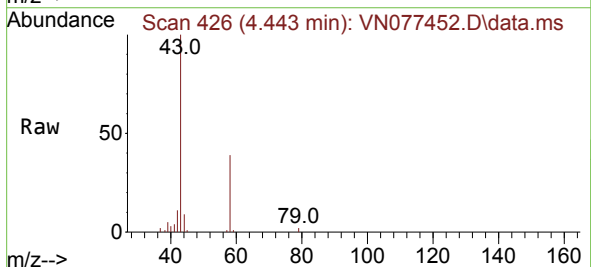
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

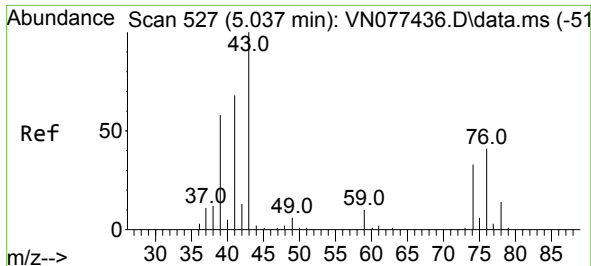
Tgt Ion: 56 Resp: 283
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 28.006 ug/l
RT: 4.443 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 43 Resp: 66442
Ion Ratio Lower Upper
43 100
58 38.6 28.0 42.0





#18

Methyl Acetate

Concen: 0.591 ug/l

RT: 5.037 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN077452.D

Acq: 25 Apr 2023 06:53

Instrument :

MSVOA_N

ClientSampleId :

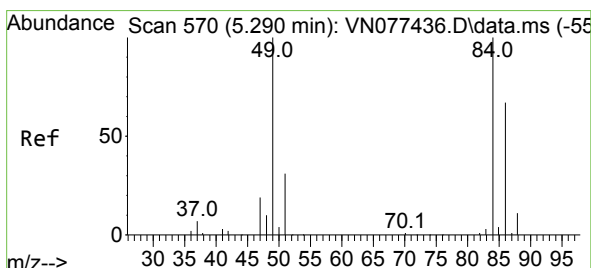
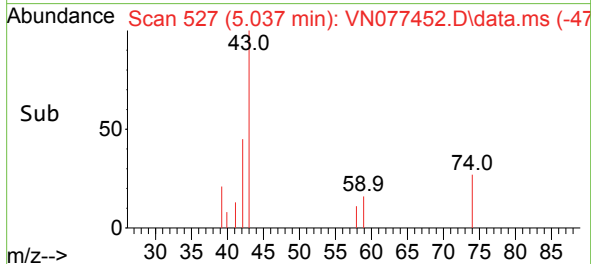
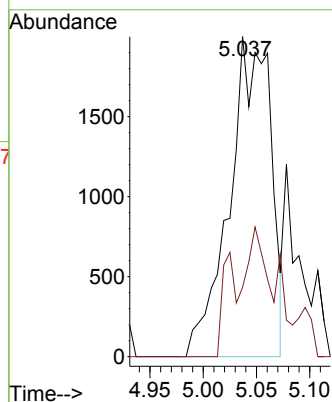
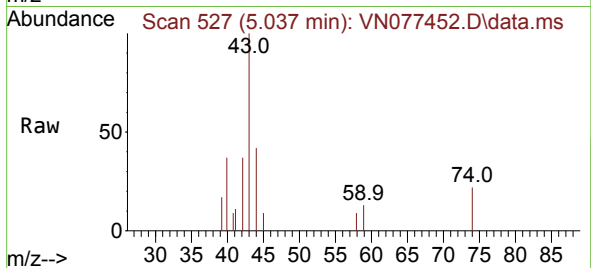
PB152304ZHE#03

Tgt Ion: 43 Resp: 5413

Ion Ratio Lower Upper

43 100

74 28.5 26.2 39.4



#20

Methylene Chloride

Concen: 5.243 ug/l

RT: 5.284 min Scan# 569

Delta R.T. -0.006 min

Lab File: VN077452.D

Acq: 25 Apr 2023 06:53

Tgt Ion: 84 Resp: 39444

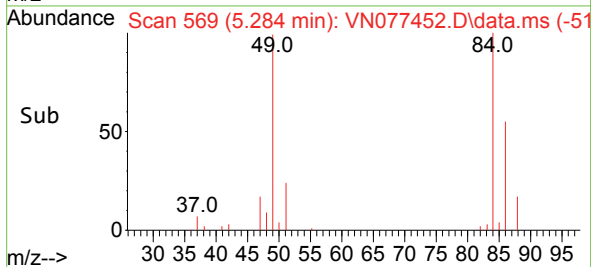
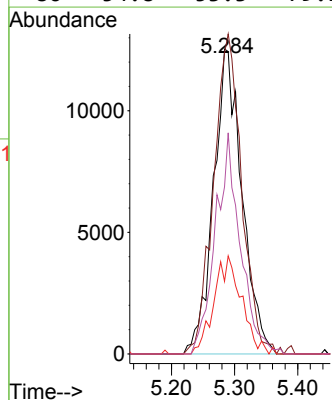
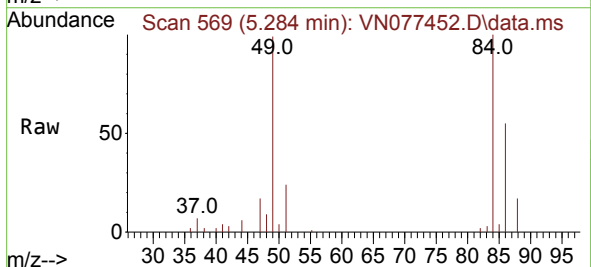
Ion Ratio Lower Upper

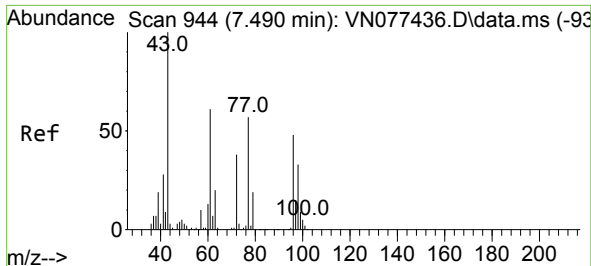
84 100

49 98.6 79.7 119.5

51 23.8 25.2 37.8#

86 54.8 53.3 79.9

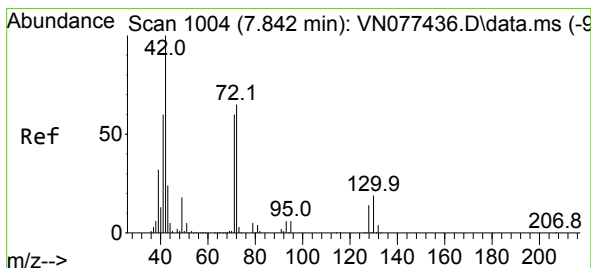
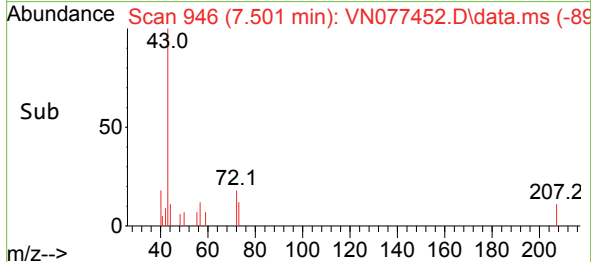
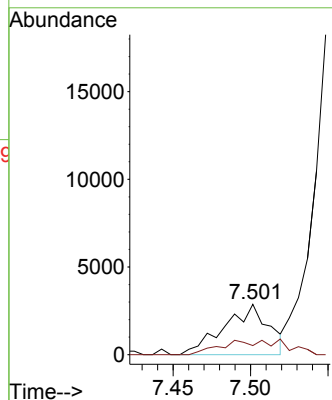
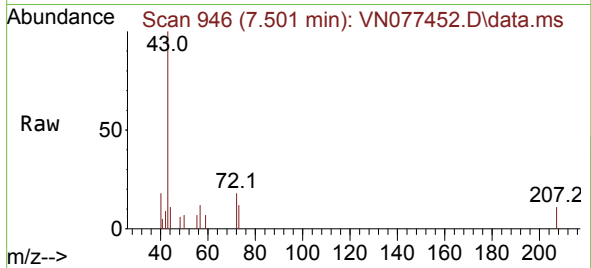




#25
2-Butanone
Concen: 1.704 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

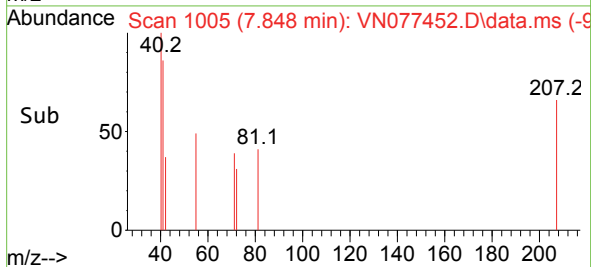
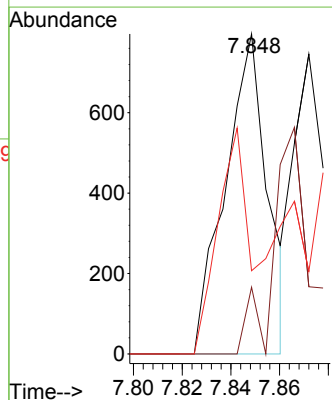
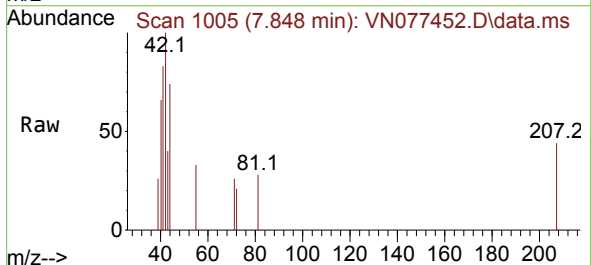
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

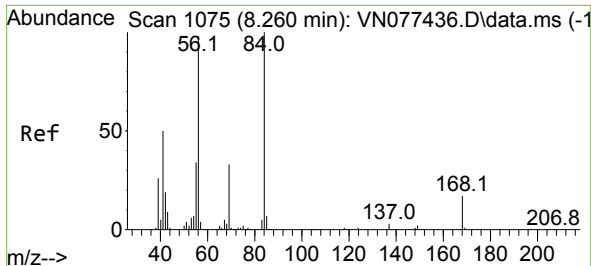
Tgt Ion: 43 Resp: 5733
Ion Ratio Lower Upper
43 100
72 18.2 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.454 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 42 Resp: 958
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 58.6 47.4 71.2

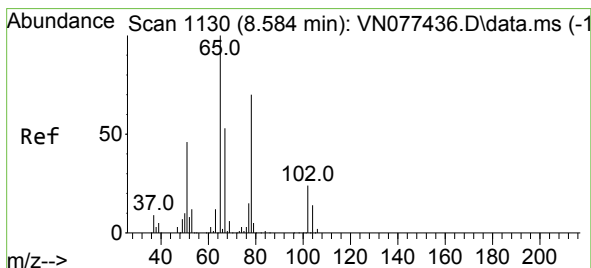
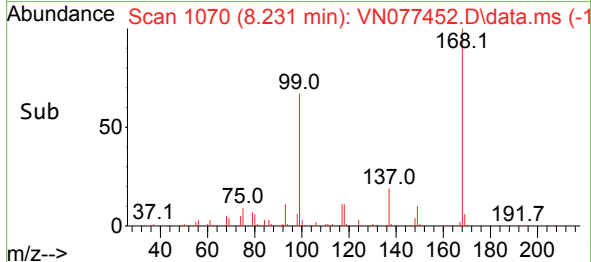
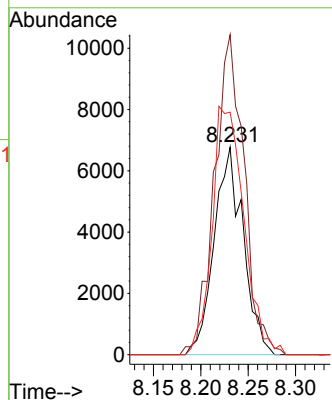
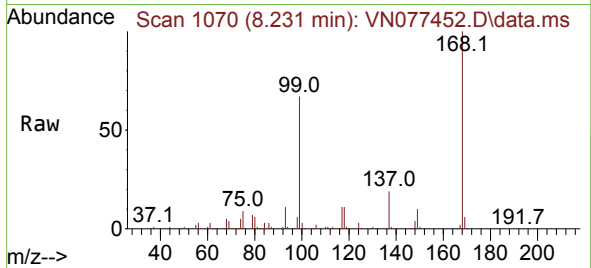




#31
Cyclohexane
Concen: 1.367 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

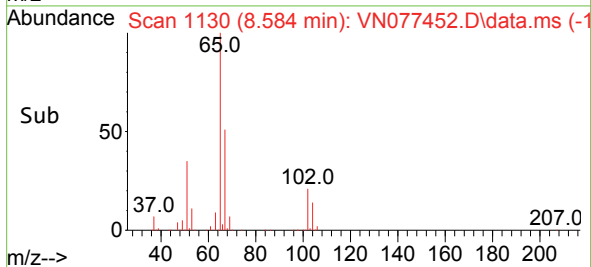
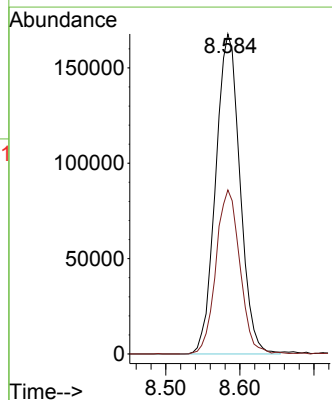
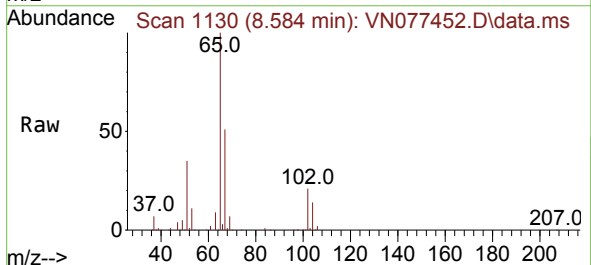
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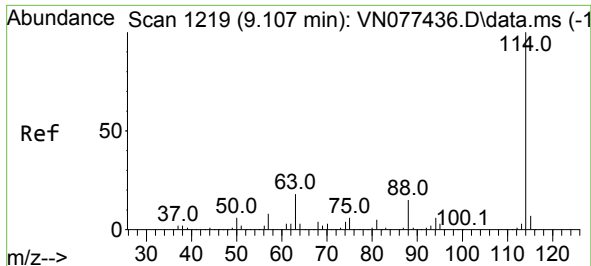
Tgt Ion: 56 Resp: 14444
Ion Ratio Lower Upper
56 100
69 154.2 26.8 40.2#
84 116.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 51.253 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 65 Resp: 382197
Ion Ratio Lower Upper
65 100
67 50.6 0.0 106.6

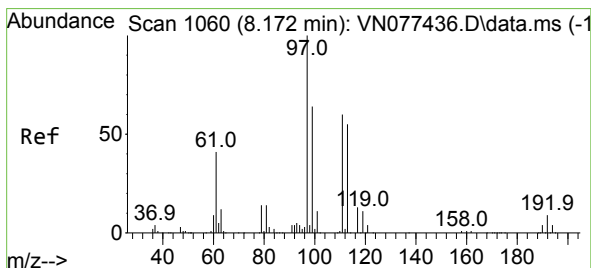
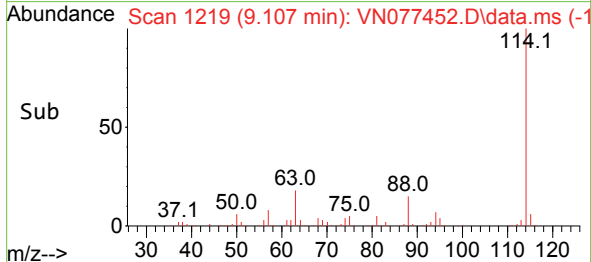
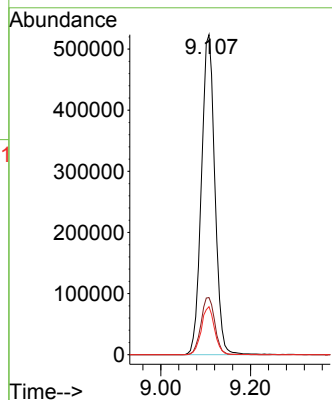
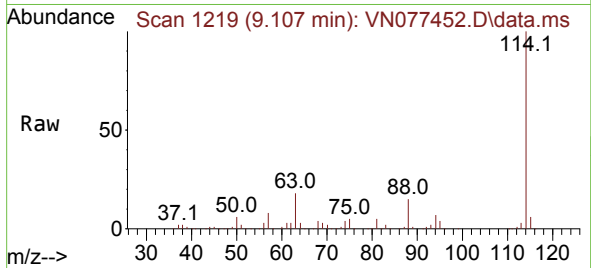




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

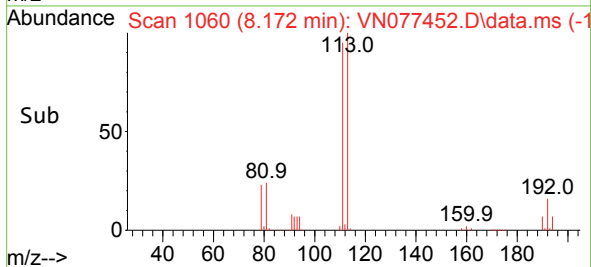
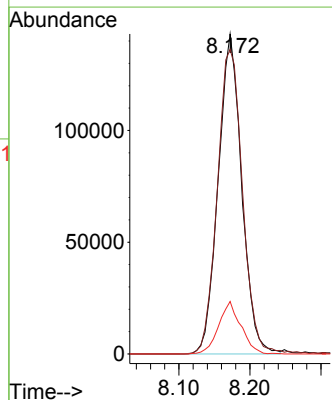
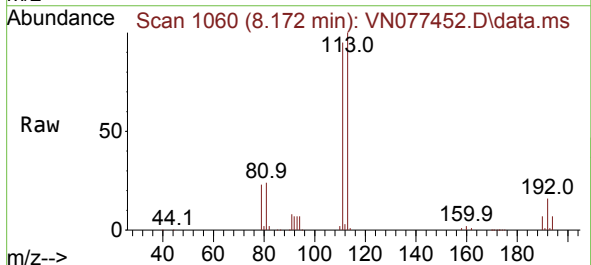
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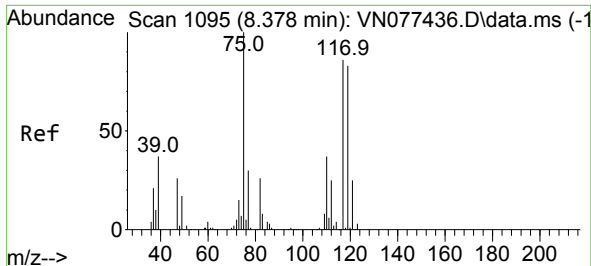
Tgt Ion:114 Resp: 1086568
Ion Ratio Lower Upper
114 100
63 17.9 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.196 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion:113 Resp: 327814
Ion Ratio Lower Upper
113 100
111 102.4 82.6 123.8
192 15.7 12.7 19.1

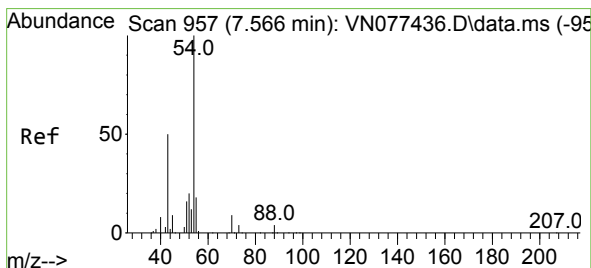
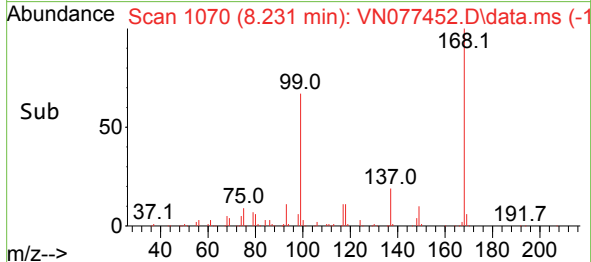
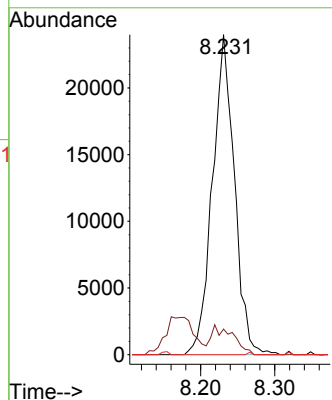
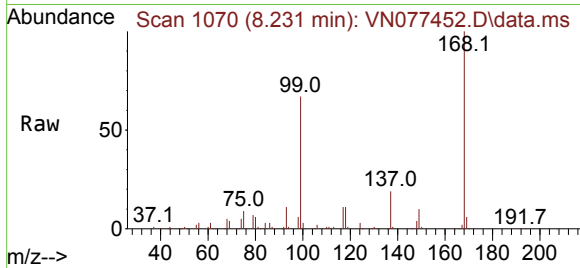




#36
1,1-Dichloropropene
Concen: 5.224 ug/l
RT: 8.231 min Scan# 1095
Delta R.T. -0.147 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

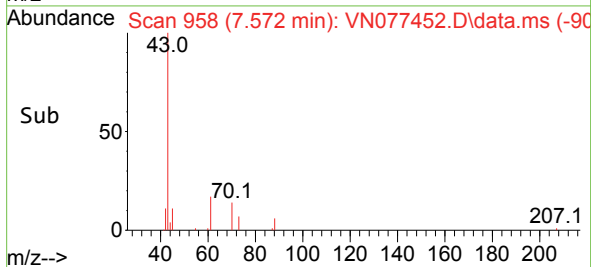
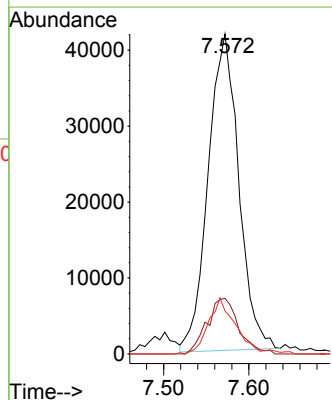
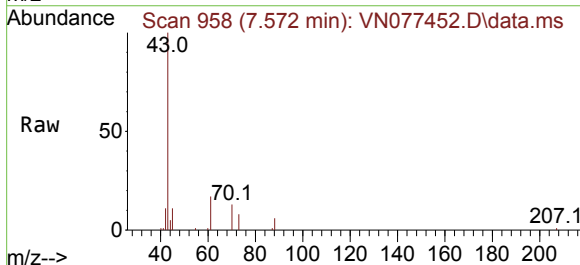
Instrument :
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ClientSampleId :
PB152304ZHE#03

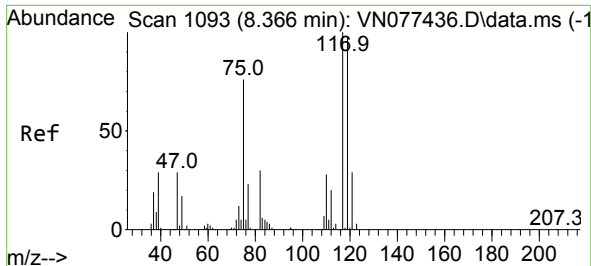
Tgt Ion: 75 Resp: 49289
Ion Ratio Lower Upper
75 100
110 9.1 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 14.496 ug/l
RT: 7.572 min Scan# 958
Delta R.T. 0.006 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 43 Resp: 103927
Ion Ratio Lower Upper
43 100
61 18.2 13.2 19.8
70 16.0 11.3 16.9

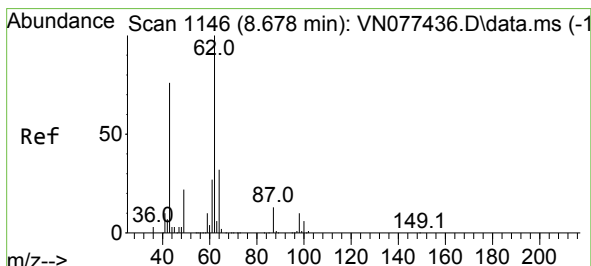
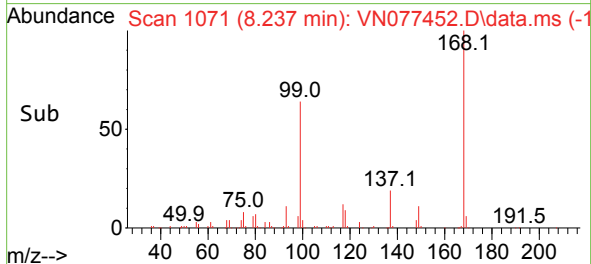
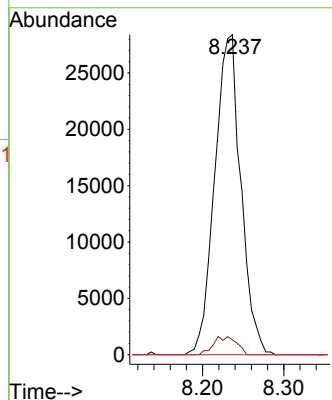
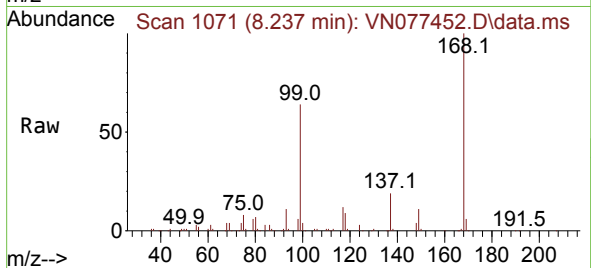




#38
Carbon Tetrachloride
Concen: 6.105 ug/l
RT: 8.237 min Scan# 1093
Delta R.T. -0.129 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

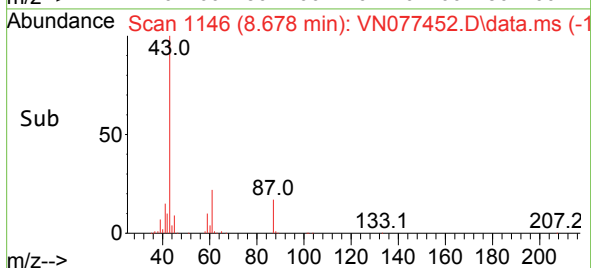
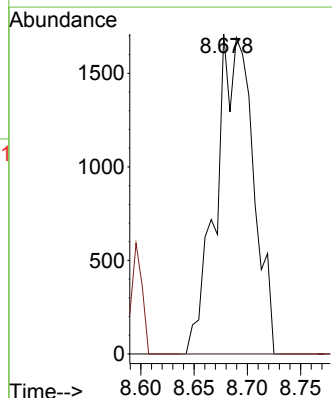
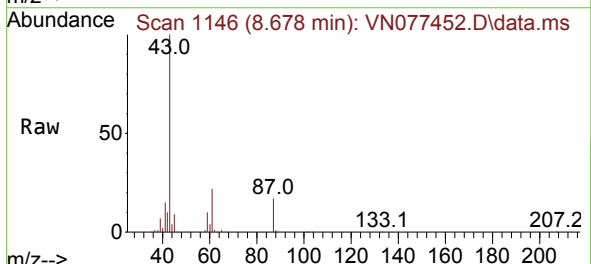
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

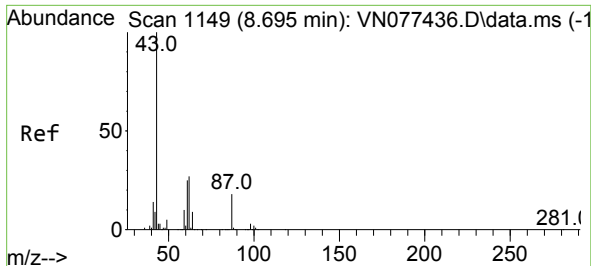
Tgt Ion:117 Resp: 63555
Ion Ratio Lower Upper
117 100
119 4.7 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.421 ug/l
RT: 8.678 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 62 Resp: 4159
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

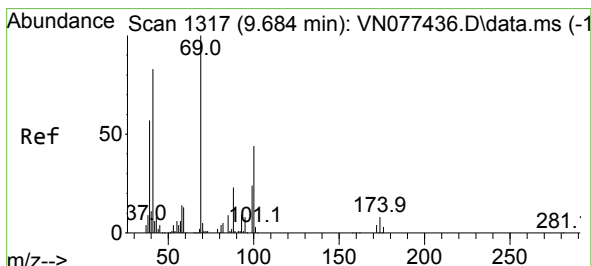
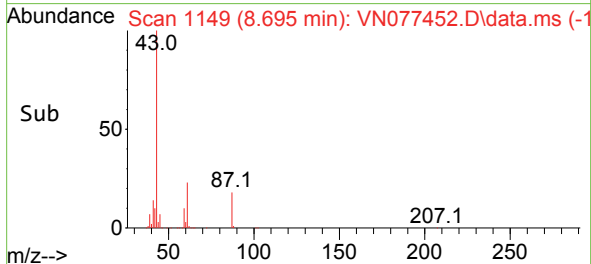
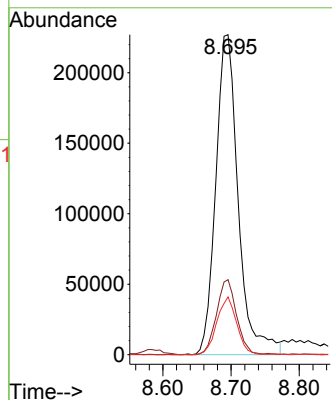
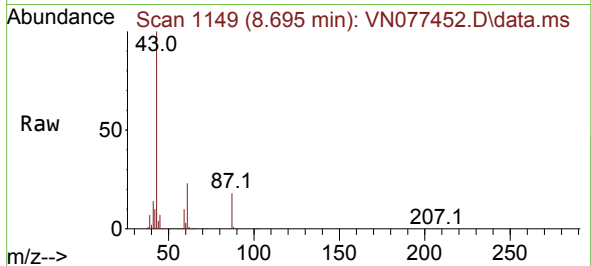




#43
Isopropyl Acetate
Concen: 42.031 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

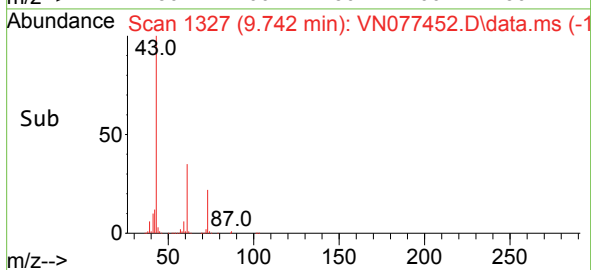
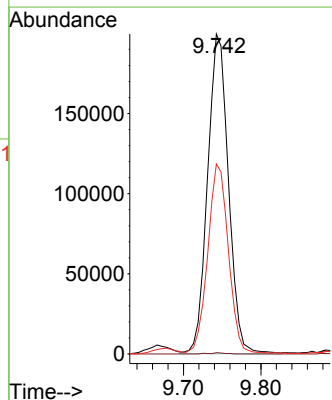
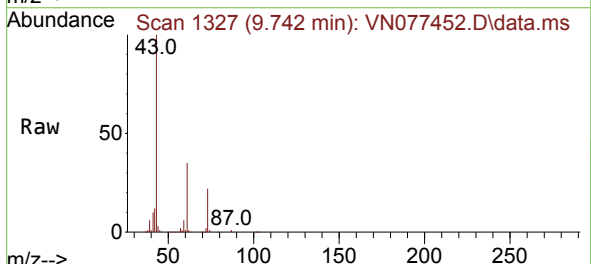
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

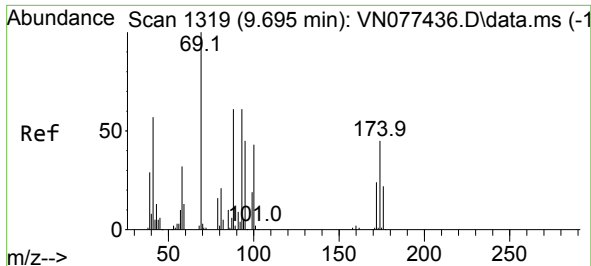
Tgt Ion: 43 Resp: 521318
Ion Ratio Lower Upper
43 100
61 20.9 24.7 37.1#
87 15.9 14.6 21.8



#48
Methyl methacrylate
Concen: 66.129 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.059 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 41 Resp: 373360
Ion Ratio Lower Upper
41 100
69 0.3 90.4 135.6#
39 59.2 54.6 81.8





#49

1,4-Dioxane

Concen: 0.381 ug/l

RT: 9.690 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN077452.D

Acq: 25 Apr 2023 06:53

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#03

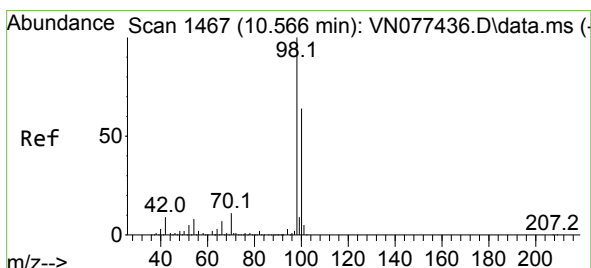
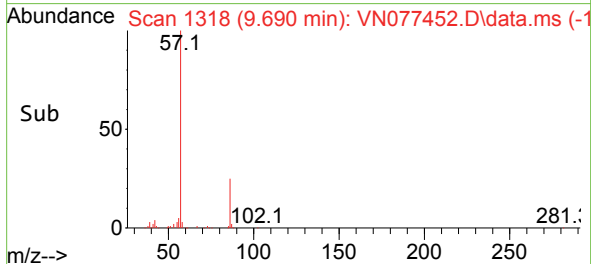
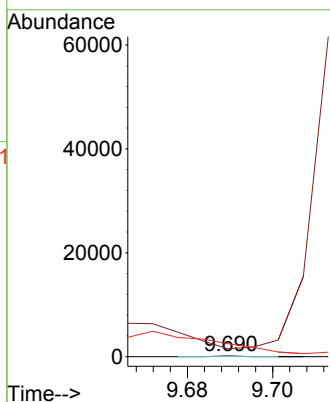
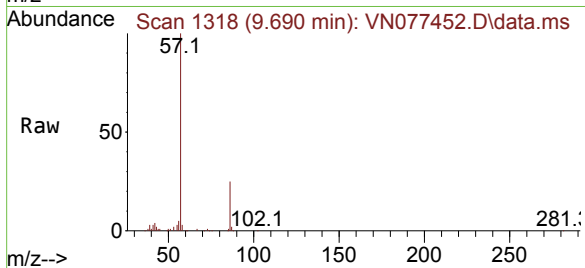
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 18914.8 47.0 70.4#



#50

Toluene-d8

Concen: 53.616 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN077452.D

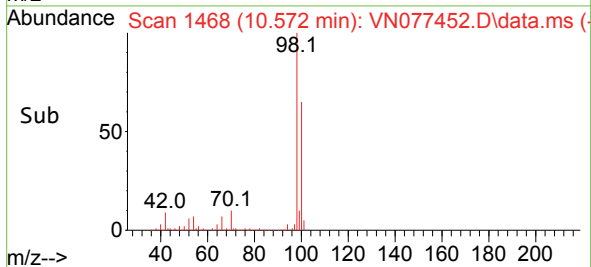
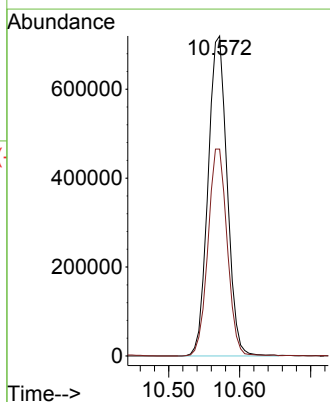
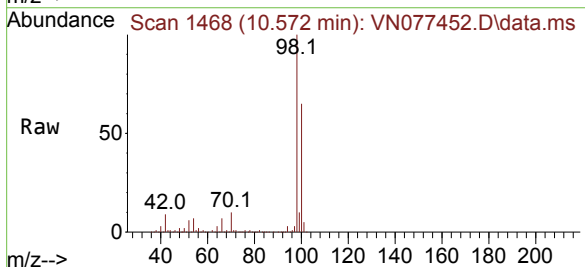
Acq: 25 Apr 2023 06:53

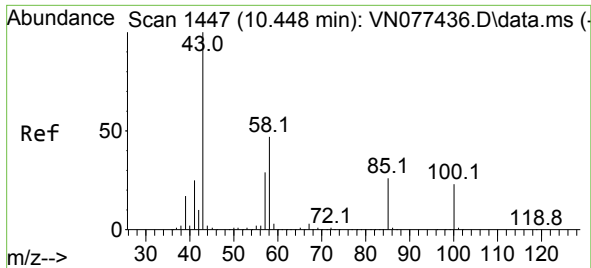
Tgt Ion: 98 Resp: 1342001

Ion Ratio Lower Upper

98 100

100 65.1 52.0 78.0

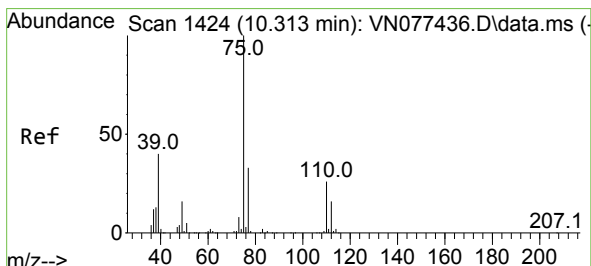
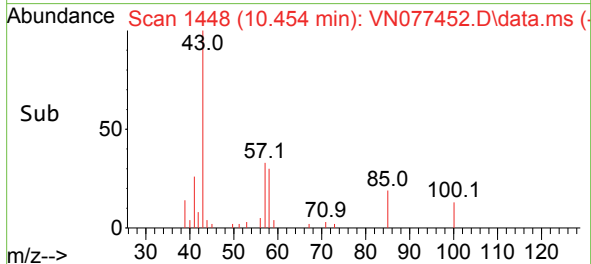
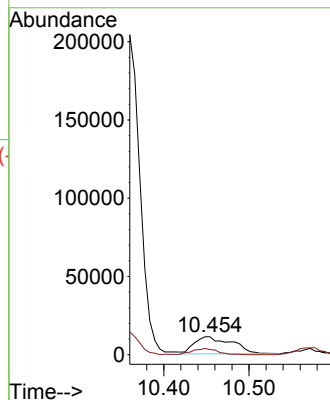
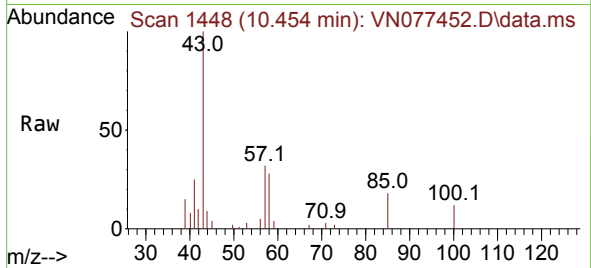




#51
4-Methyl-2-Pentanone
Concen: 4.654 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

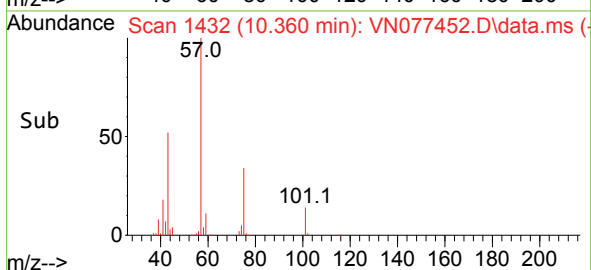
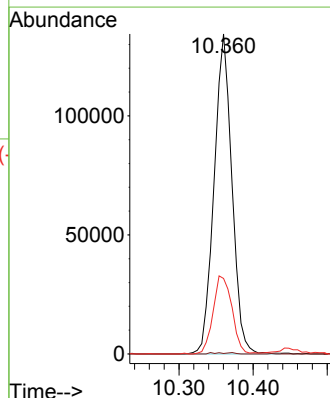
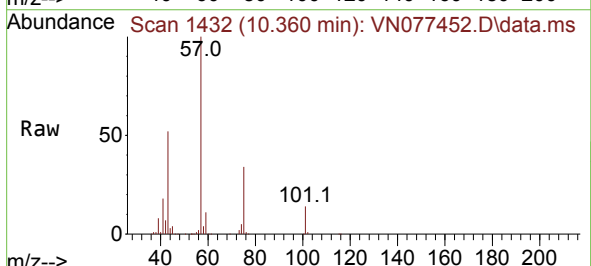
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

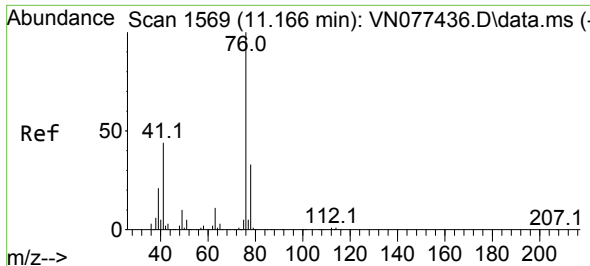
Tgt Ion: 43 Resp: 33858
Ion Ratio Lower Upper
43 100
58 24.2 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 19.270 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 75 Resp: 224450
Ion Ratio Lower Upper
75 100
77 0.1 26.1 39.1#
39 23.6 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 2.399 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077452.D

Acq: 25 Apr 2023 06:53

Instrument :

MSVOA_N

ClientSampleId :

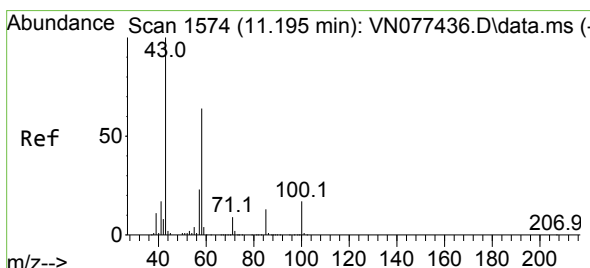
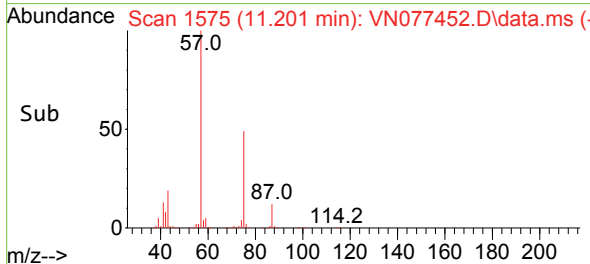
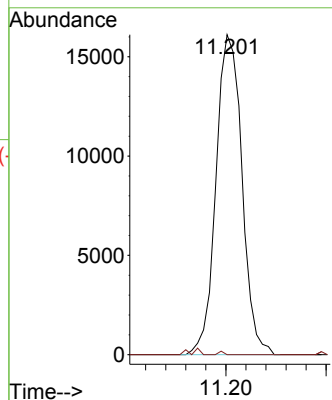
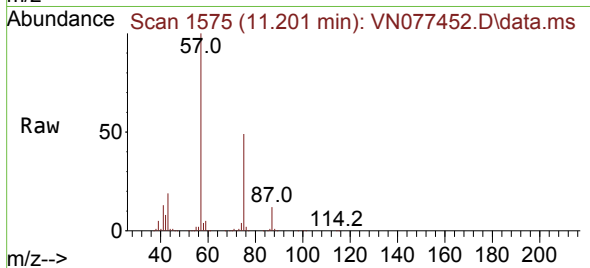
PB152304ZHE#03

Tgt Ion: 76 Resp: 28940

Ion Ratio Lower Upper

76 100

78 0.2 26.1 39.1#



#59

2-Hexanone

Concen: 77.006 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077452.D

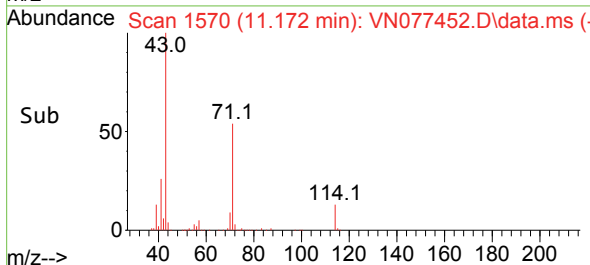
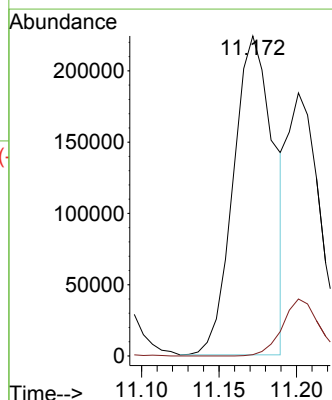
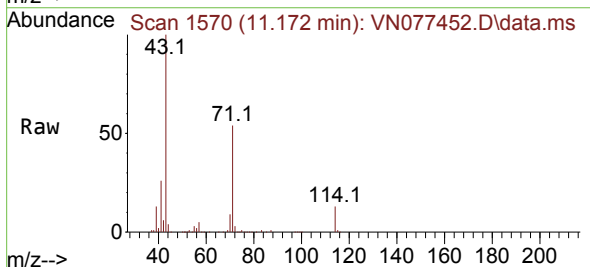
Acq: 25 Apr 2023 06:53

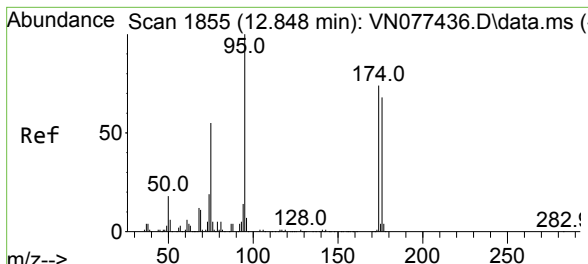
Tgt Ion: 43 Resp: 407224

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

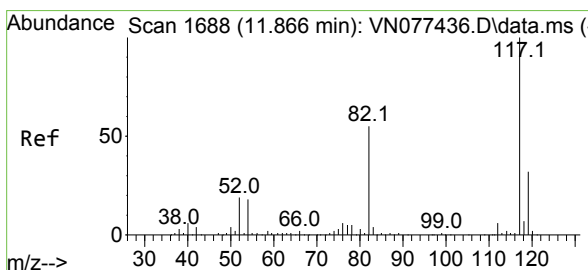
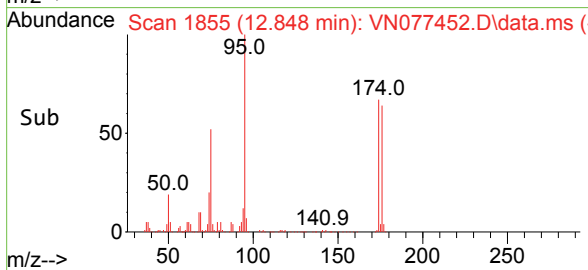
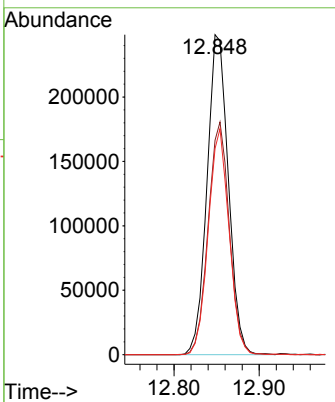
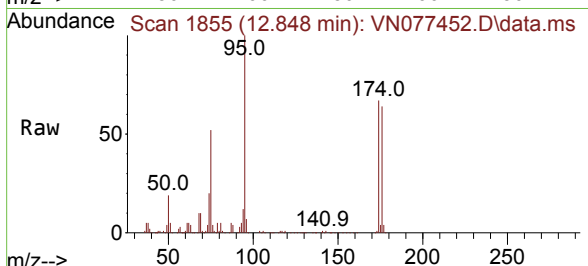




#62
 4-Bromofluorobenzene
 Concen: 52.826 ug/l
 RT: 12.848 min Scan# 1855
 Delta R.T. 0.000 min
 Lab File: VN077452.D
 Acq: 25 Apr 2023 06:53

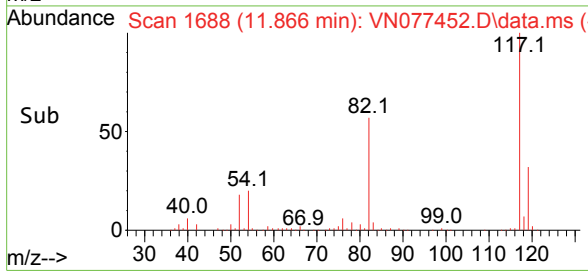
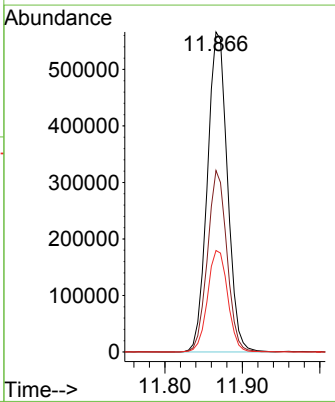
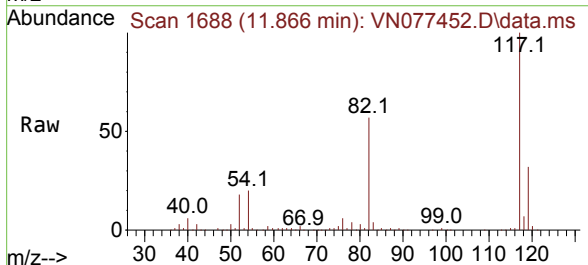
Instrument :
 MSVOA_N
 ClientSampleId :
 PB152304ZHE#03

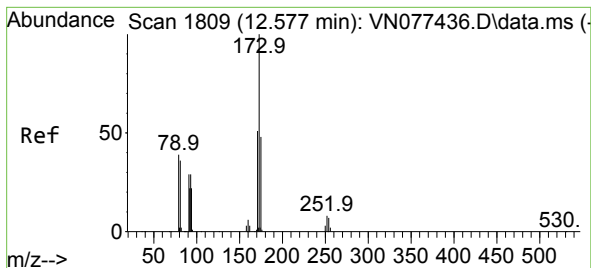
Tgt Ion:	95	Resp:	432600
Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	143.8
176	68.7	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.866 min Scan# 1688
 Delta R.T. 0.000 min
 Lab File: VN077452.D
 Acq: 25 Apr 2023 06:53

Tgt Ion:	117	Resp:	1017183
Ion	Ratio	Lower	Upper
117	100		
82	56.7	44.0	66.0
119	31.7	25.6	38.4





#71

Bromoform

Concen: 0.283 ug/l

RT: 12.848 min Scan# 1809

Delta R.T. 0.271 min

Lab File: VN077452.D

Acq: 25 Apr 2023 06:53

Instrument :

MSVOA_N

ClientSampleId :

PB152304ZHE#03

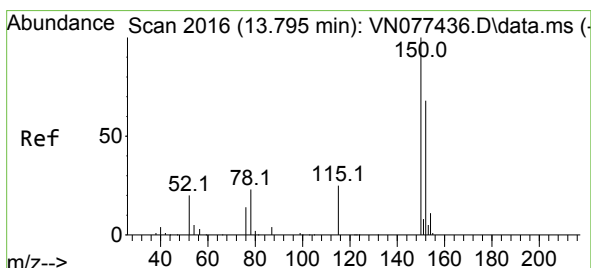
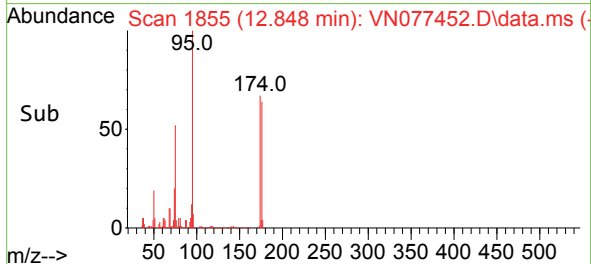
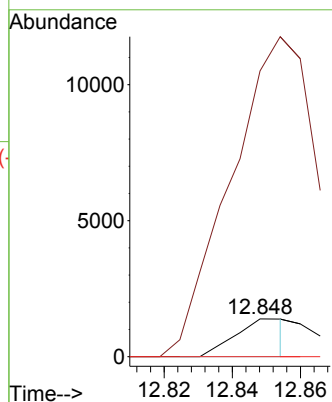
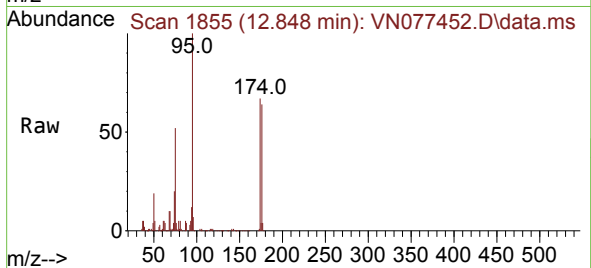
Tgt Ion:173 Resp: 1448

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN077452.D

Acq: 25 Apr 2023 06:53

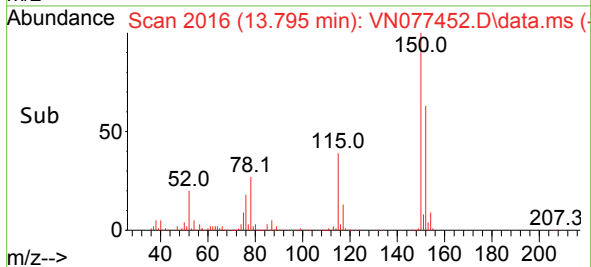
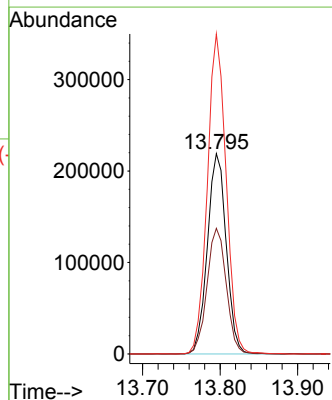
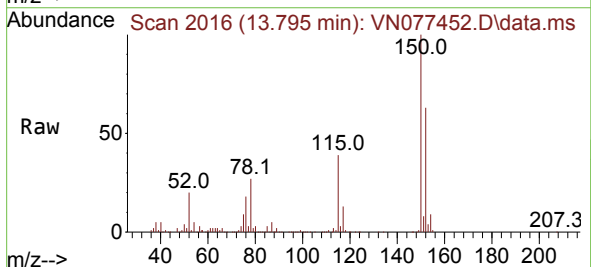
Tgt Ion:152 Resp: 369974

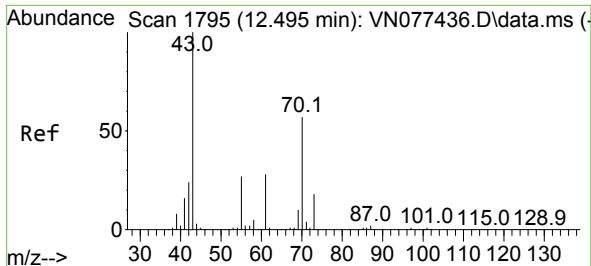
Ion Ratio Lower Upper

152 100

115 64.2 32.3 96.8

150 158.8 0.0 355.8

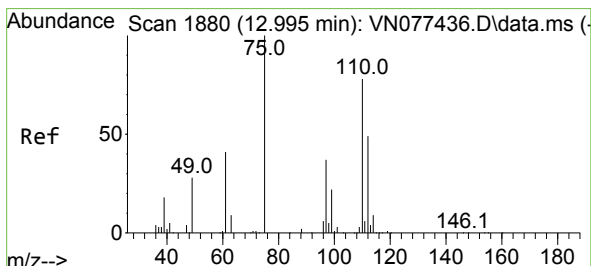
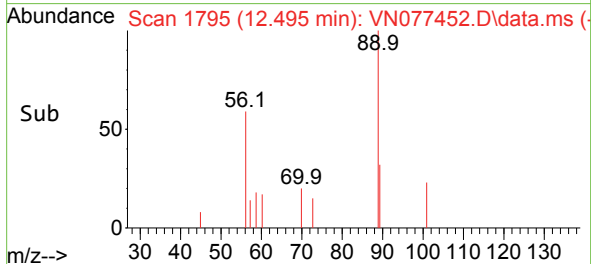
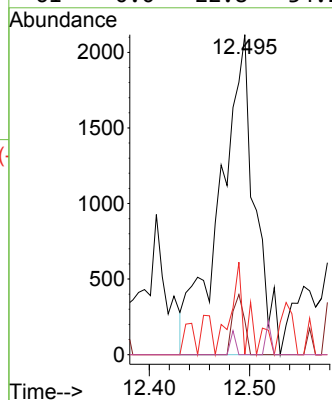
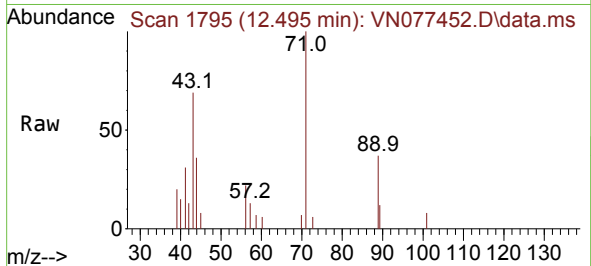




#74
N-amy1 acetate
Concen: 0.500 ug/l
RT: 12.495 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

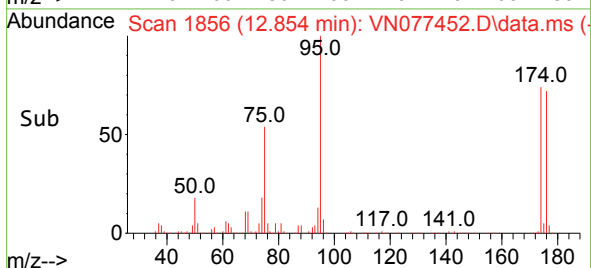
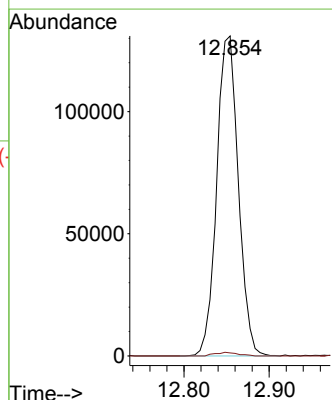
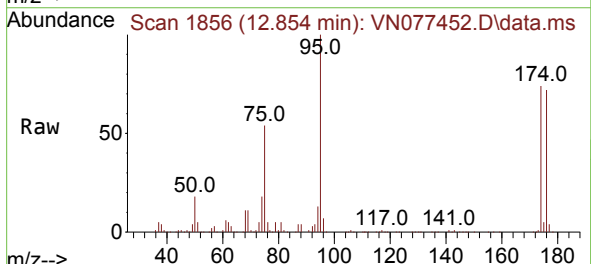
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

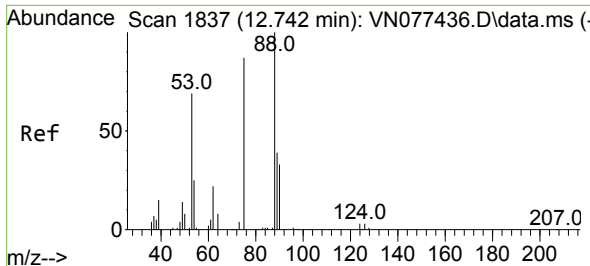
Tgt Ion: 43	Resp: 5085
Ion Ratio	Lower Upper
43	100
70	6.3 43.4 65.2#
55	13.7 21.4 32.0#
61	0.0 22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 26.863 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 75	Resp: 231113
Ion Ratio	Lower Upper
75	100
77	1.2 84.5 253.5#

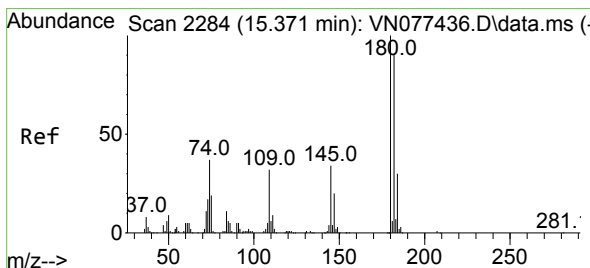
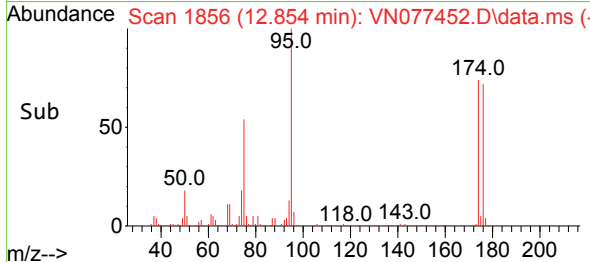
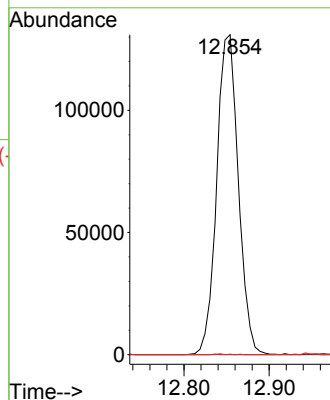
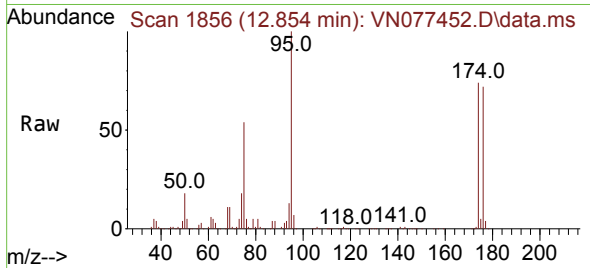




#81
trans-1,4-Dichloro-2-butene
Concen: 75.893 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

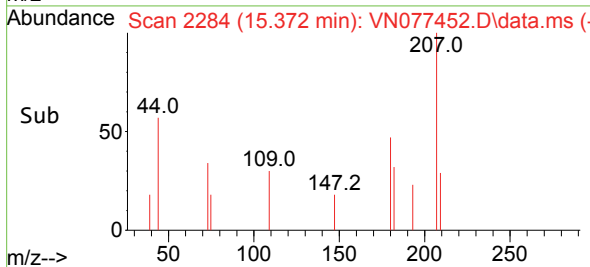
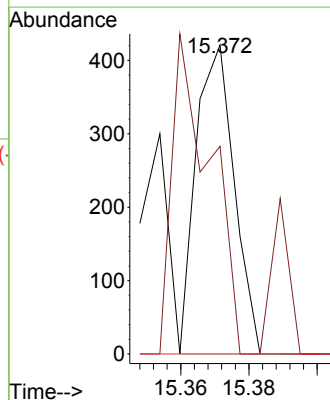
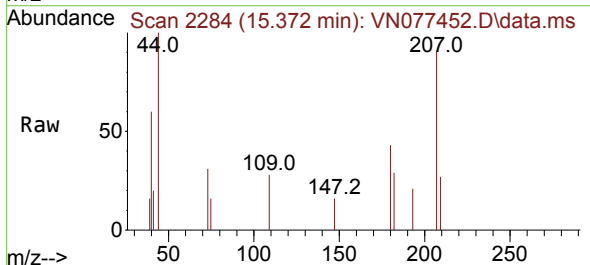
Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

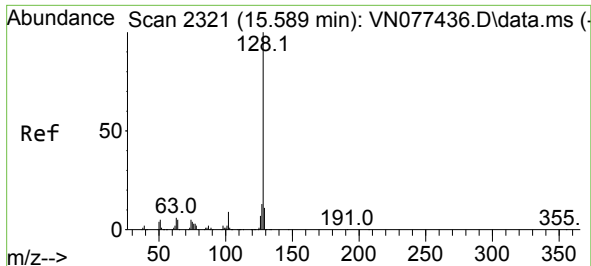
Tgt Ion: 75 Resp: 231113
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.920 ug/l
RT: 15.372 min Scan# 2284
Delta R.T. 0.001 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion: 180 Resp: 328
Ion Ratio Lower Upper
180 100
182 22.9 46.1 138.2#
145 0.0 16.6 49.8#

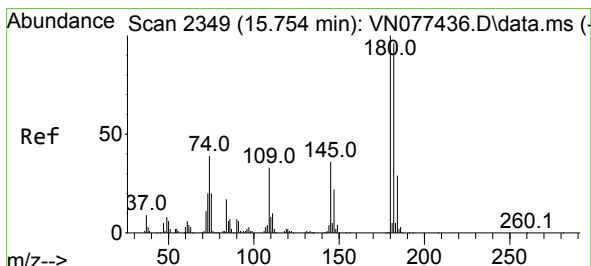
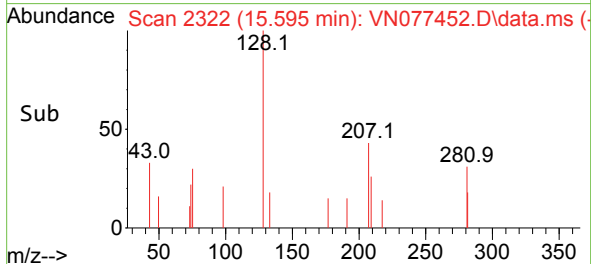
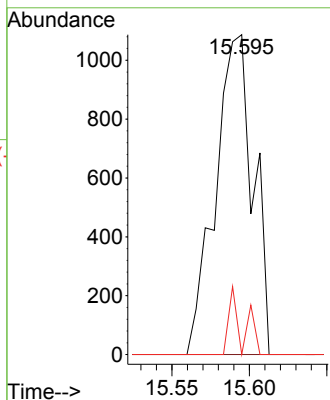
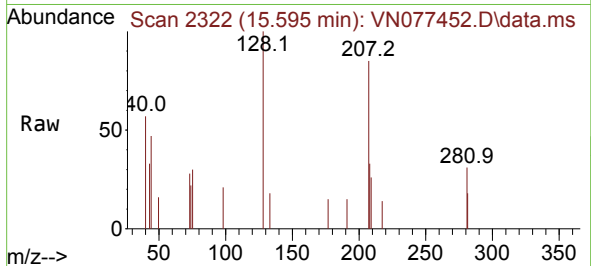




#95
Naphthalene
Concen: 1.326 ug/l
RT: 15.595 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Instrument :
MSVOA_N
ClientSampleId :
PB152304ZHE#03

Tgt Ion:128 Resp: 1838
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 7.7 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.543 ug/l
RT: 15.760 min Scan# 2350
Delta R.T. 0.006 min
Lab File: VN077452.D
Acq: 25 Apr 2023 06:53

Tgt Ion:180 Resp: 171
Ion Ratio Lower Upper
180 100
182 283.6 46.2 138.6#
145 31.0 17.5 52.6

