

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078334.D
 Acq On : 21 Jun 2023 19:59
 Operator : JC\MD
 Sample : 03337-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-8

Quant Time: Jun 22 04:55:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

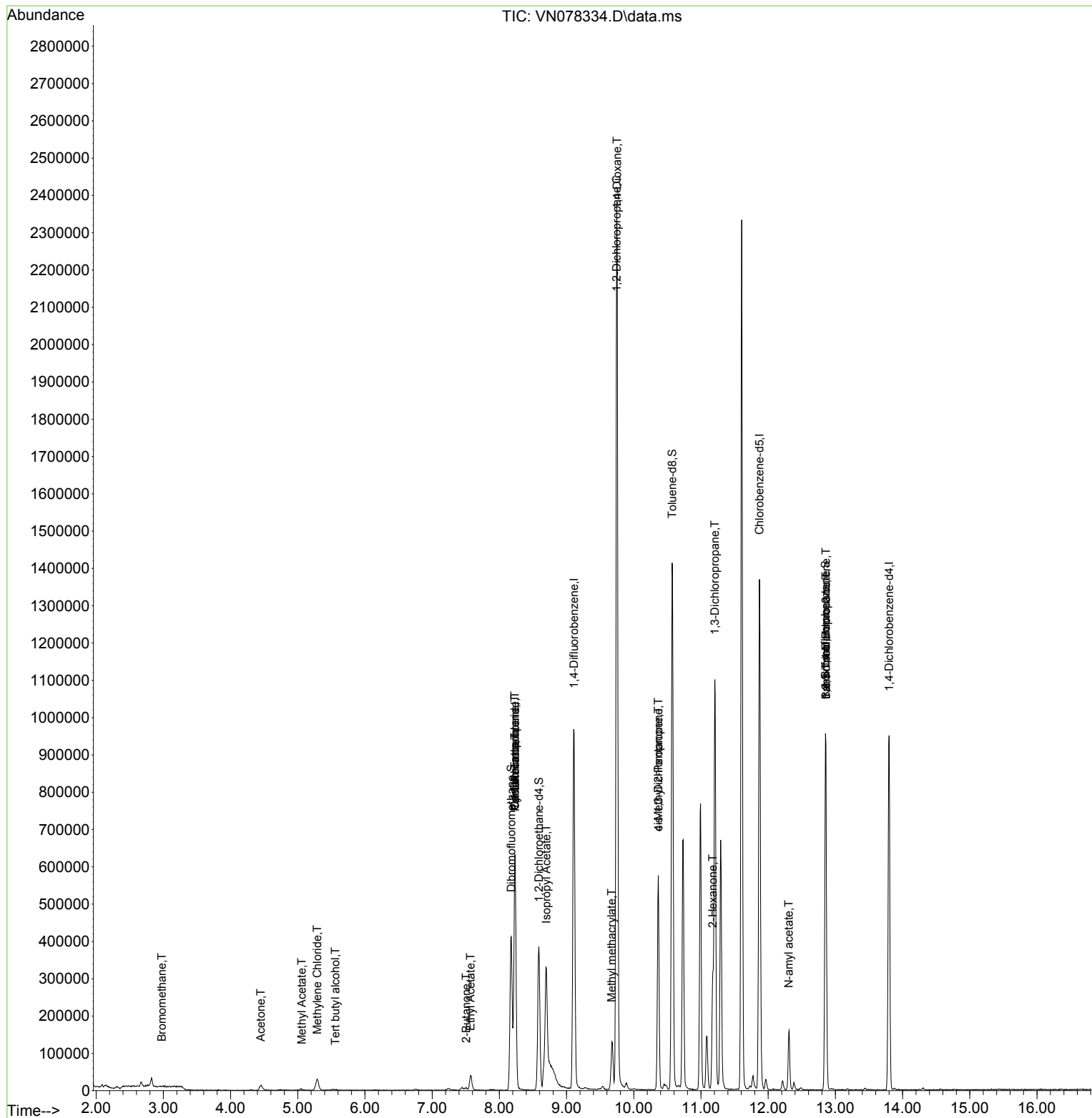
Internal Standards						
1) Pentafluorobenzene	8.235	168	451060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	856062	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	813056	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	263408	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	320440	53.282	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.560%	
35) Dibromofluoromethane	8.177	113	299311	55.297	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.600%	
50) Toluene-d8	10.571	98	1033252	49.517	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.040%	
62) 4-Bromofluorobenzene	12.853	95	338313	52.153	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 104.300%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	936	Below Cal	#	69
5) Bromomethane	2.977	94	1184	0.235	ug/l #	37
11) Tert butyl alcohol	5.559	59	903	1.087	ug/l #	79
16) Acetone	4.447	43	25100	14.500	ug/l #	75
18) Methyl Acetate	5.059	43	6975	0.875	ug/l #	72
20) Methylene Chloride	5.289	84	24272	4.243	ug/l	89
25) 2-Butanone	7.506	43	10376	3.898	ug/l #	87
31) Cyclohexane	8.230	56	11712	1.518	ug/l #	50
36) 1,1-Dichloropropene	8.230	75	39487	5.086	ug/l #	46
37) Ethyl Acetate	7.571	43	58062	9.573	ug/l	95
38) Carbon Tetrachloride	8.230	117	48104	5.868	ug/l #	16
43) Isopropyl Acetate	8.700	43	544079	46.906	ug/l #	68
45) 1,2-Dichloropropane	9.747	63	3250	0.564	ug/l #	45
48) Methyl methacrylate	9.671	41	9188	1.888	ug/l #	33
49) 1,4-Dioxane	9.753	88	356	3.480	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	200530	32.830	ug/l #	41
54) cis-1,3-Dichloropropene	10.365	75	105201	11.582	ug/l #	69
57) 1,3-Dichloropropane	11.206	76	12970	1.388	ug/l #	42
59) 2-Hexanone	11.176	43	236515	55.611	ug/l #	19
71) Bromoform	12.859	173	3167	0.766	ug/l #	1
74) N-amyl acetate	12.306	43	49627	6.050	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.970	83	138	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.859	75	181894	29.210	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	181894	89.743	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

Instrument :

MSVOA_N

ClientSampleId :

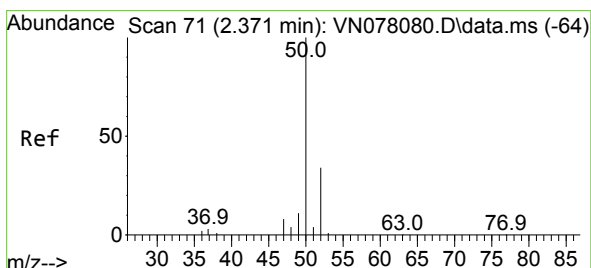
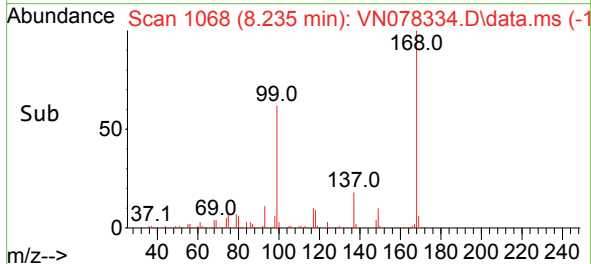
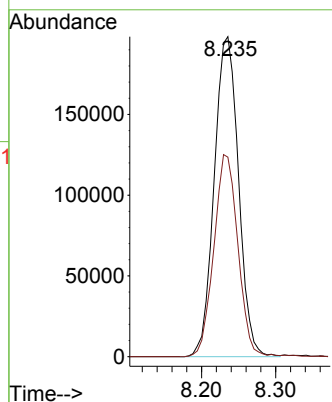
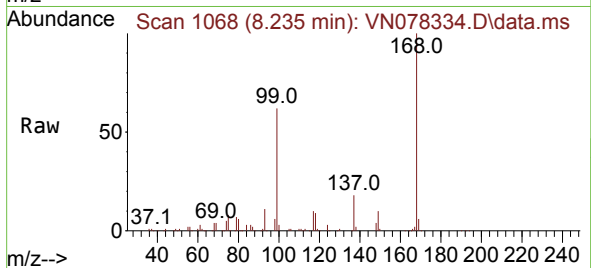
WC-8

Tgt Ion:168 Resp: 451060

Ion Ratio Lower Upper

168 100

99 62.3 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078334.D

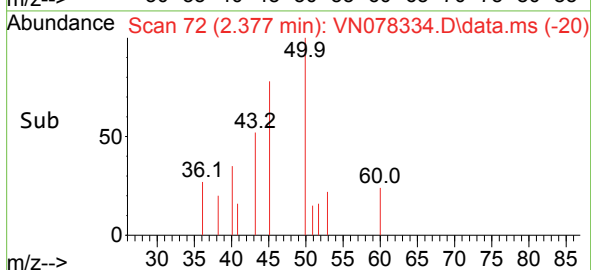
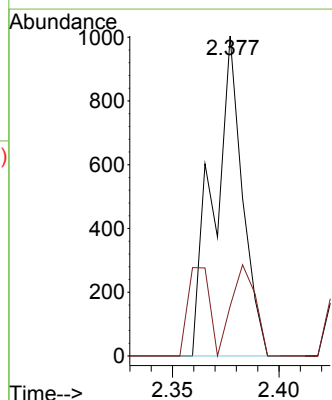
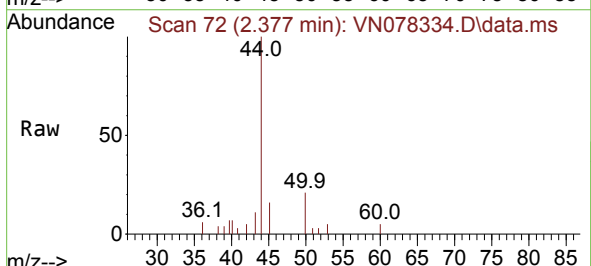
Acq: 21 Jun 2023 19:59

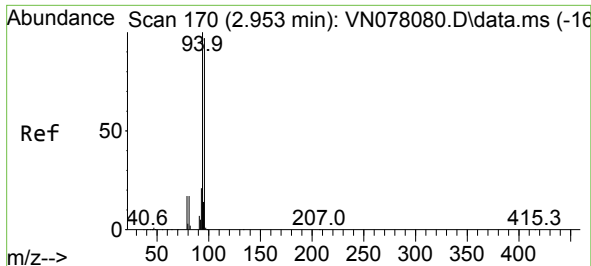
Tgt Ion: 50 Resp: 936

Ion Ratio Lower Upper

50 100

52 15.5 26.5 39.7#

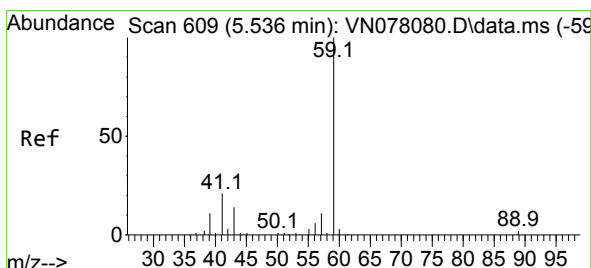
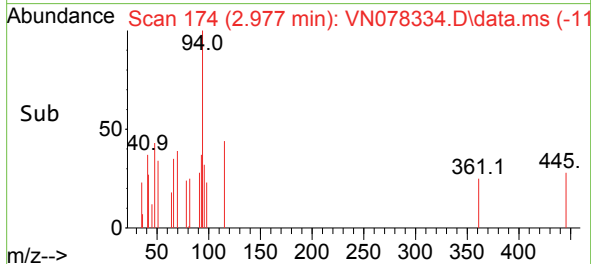
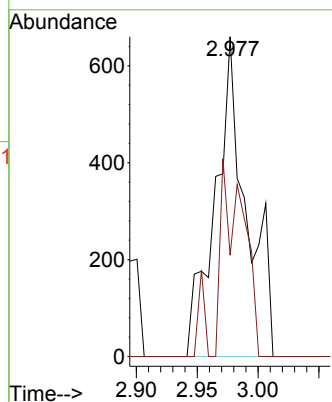
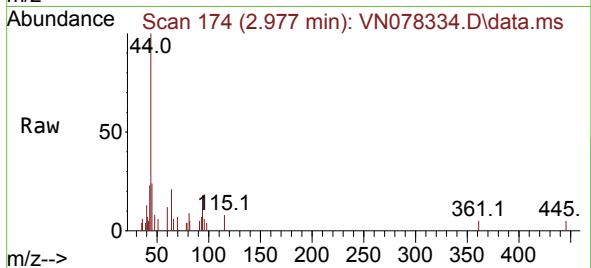




#5
Bromomethane
Concen: 0.235 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

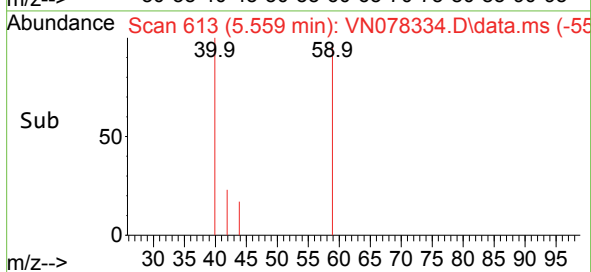
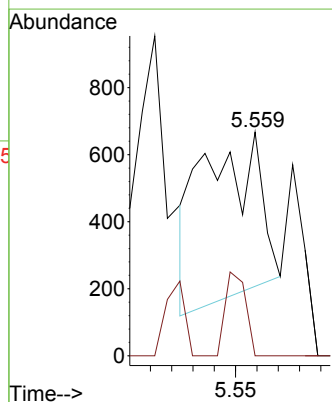
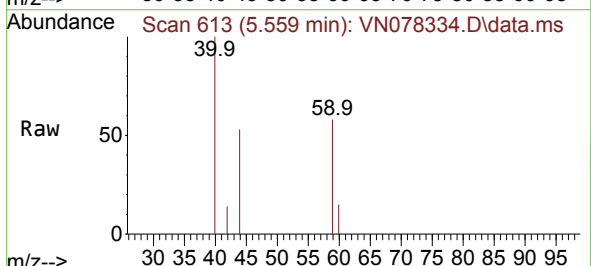
Instrument :
MSVOA_N
ClientSampleId :
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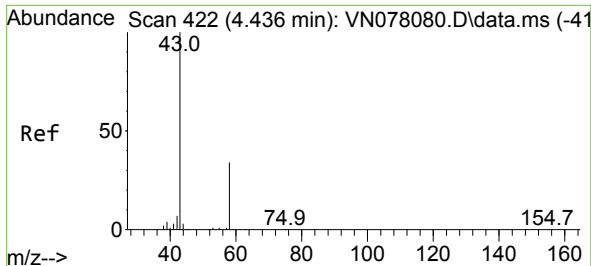
Tgt Ion: 94 Resp: 1184
Ion Ratio Lower Upper
94 100
96 31.7 73.1 109.7#



#11
Tert butyl alcohol
Concen: 1.087 ug/l
RT: 5.559 min Scan# 613
Delta R.T. 0.024 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 59 Resp: 903
Ion Ratio Lower Upper
59 100
57 18.3 8.2 12.4#

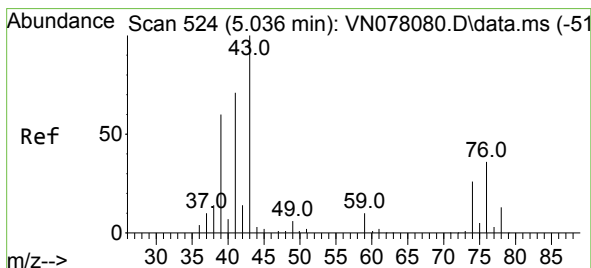
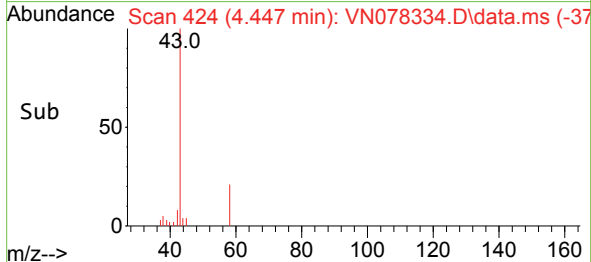
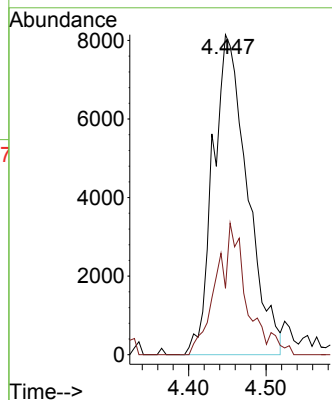
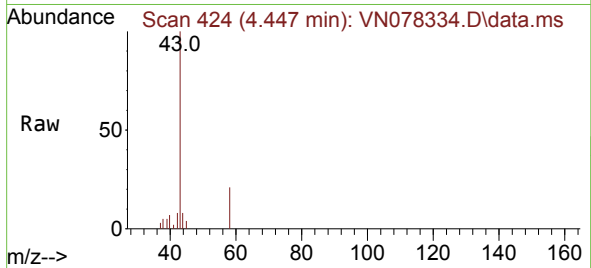




#16
Acetone
Concen: 14.500 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

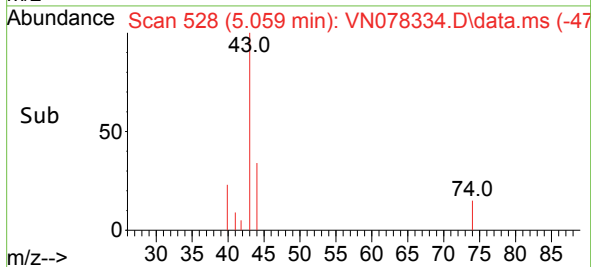
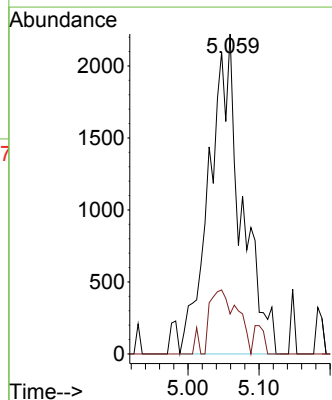
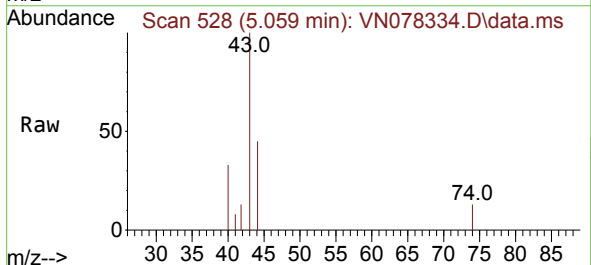
Instrument :
MSVOA_N
ClientSampleId :
WC-8

Tgt Ion: 43 Resp: 25100
Ion Ratio Lower Upper
43 100
58 20.8 28.0 42.0#



#18
Methyl Acetate
Concen: 0.875 ug/l
RT: 5.059 min Scan# 528
Delta R.T. 0.024 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 43 Resp: 6975
Ion Ratio Lower Upper
43 100
74 17.0 26.2 39.4#

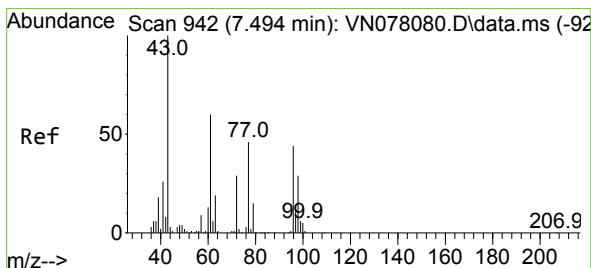
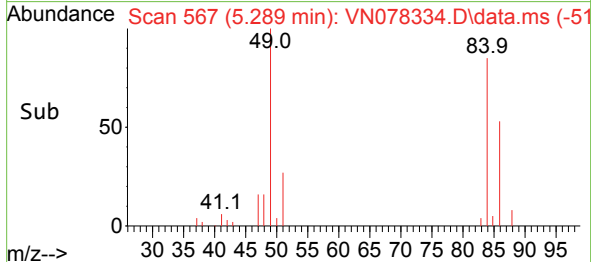
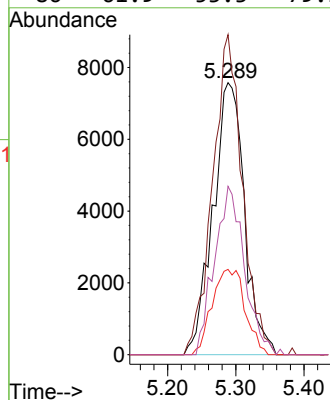
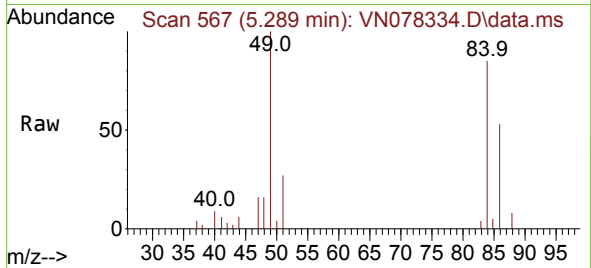




#20
Methylene Chloride
Concen: 4.243 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

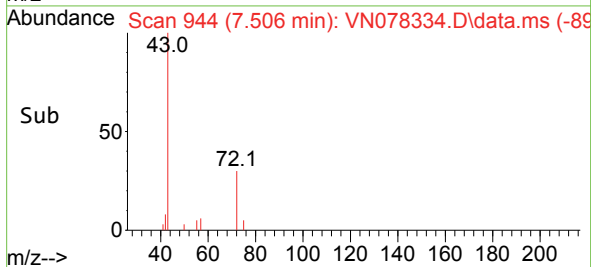
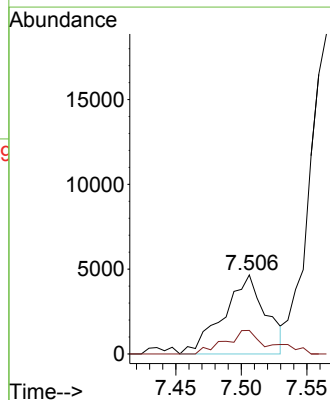
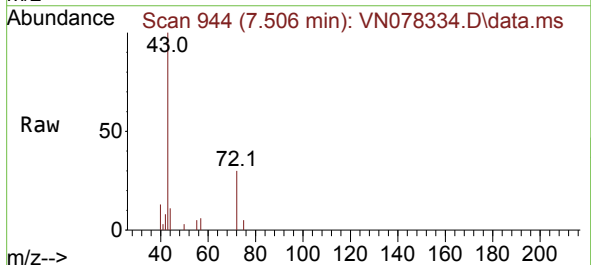
Instrument :
MSVOA_N
ClientSampleId :
WC-8

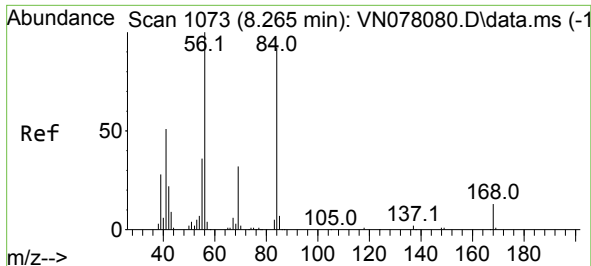
Tgt Ion: 84	Resp: 24272
Ion Ratio	Lower Upper
84 100	
49 117.7	79.7 119.5
51 31.4	25.2 37.8
86 61.9	53.3 79.9



#25
2-Butanone
Concen: 3.898 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 43	Resp: 10376
Ion Ratio	Lower Upper
43 100	
72 29.8	30.2 45.2#

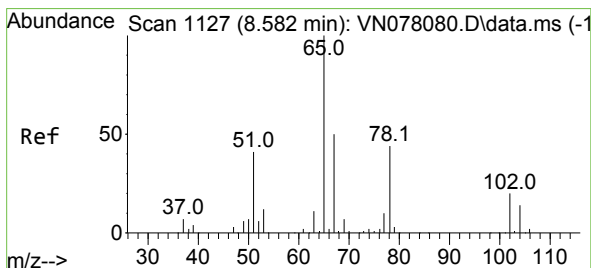
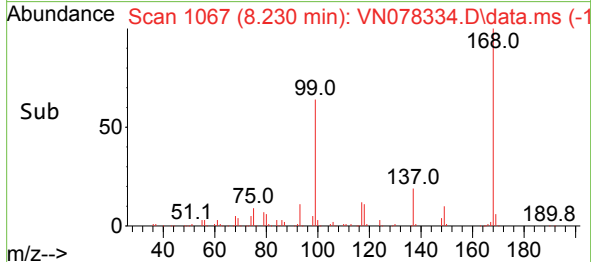
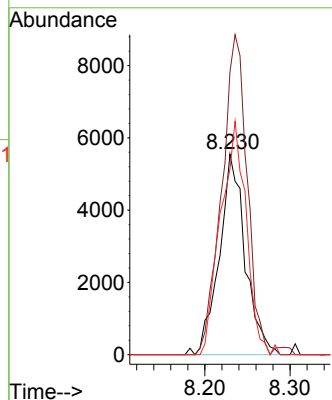
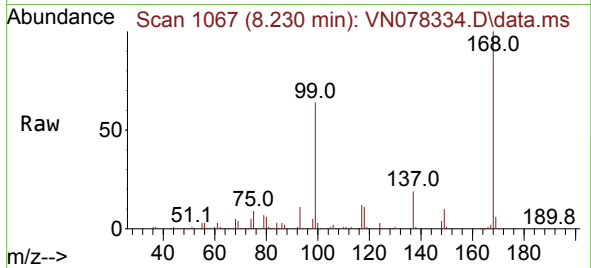




#31
Cyclohexane
Concen: 1.518 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

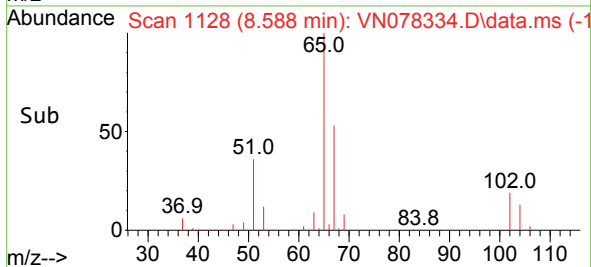
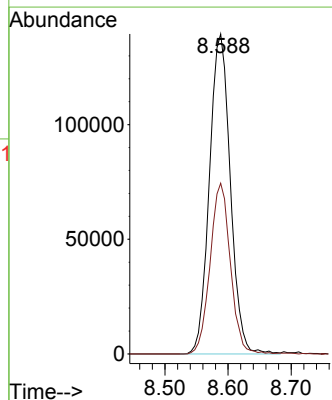
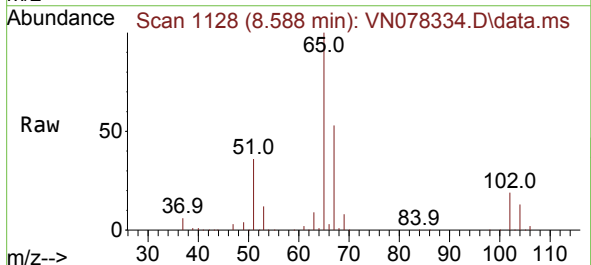
Instrument :
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ClientSampleId :
WC-8

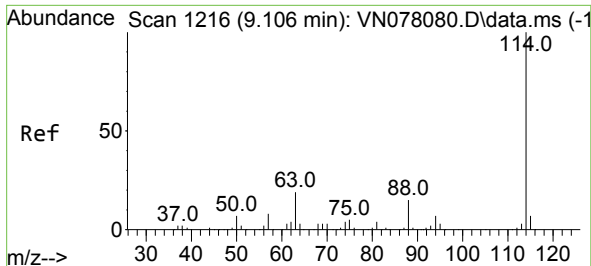
Tgt Ion: 56 Resp: 11712
Ion Ratio Lower Upper
56 100
69 141.1 26.8 40.2#
84 98.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.282 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 65 Resp: 320440
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

Instrument :

MSVOA_N

ClientSampleId :

WC-8

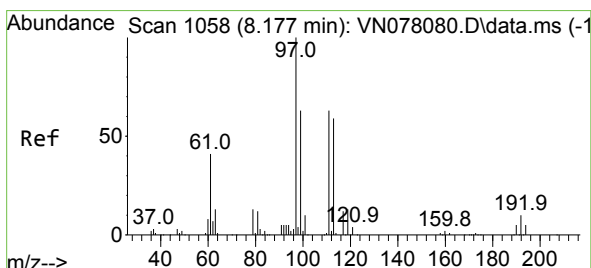
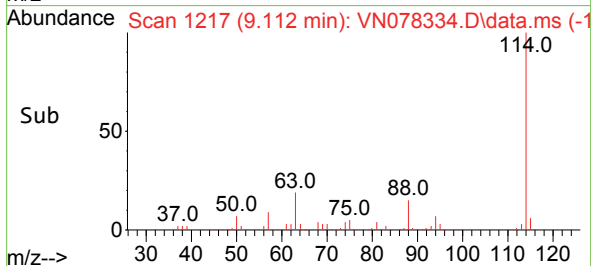
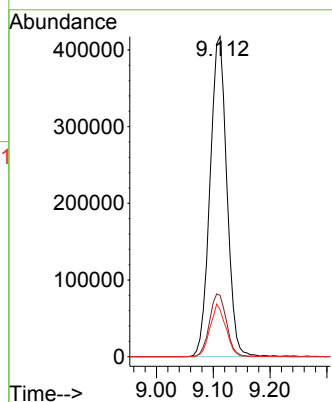
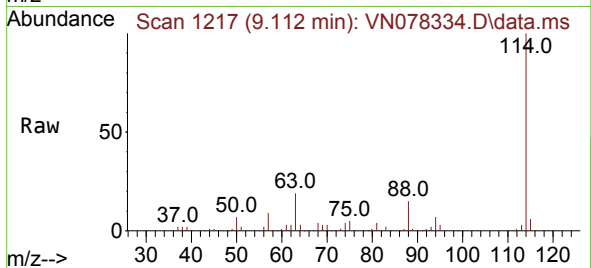
Tgt Ion:114 Resp: 856062

Ion Ratio Lower Upper

114 100

63 19.2 0.0 36.4

88 14.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.297 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

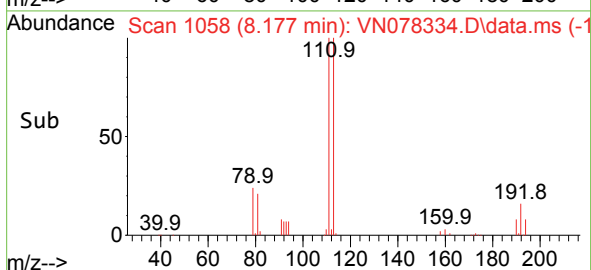
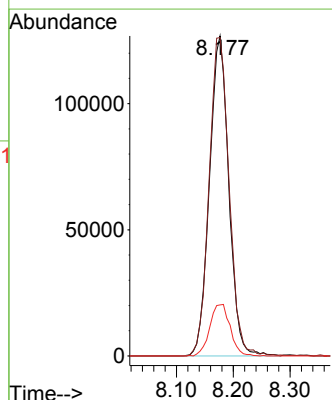
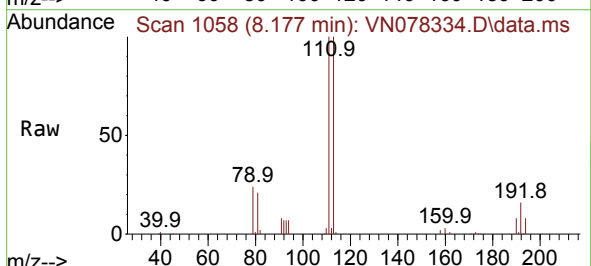
Tgt Ion:113 Resp: 299311

Ion Ratio Lower Upper

113 100

111 103.1 82.6 123.8

192 17.0 12.7 19.1

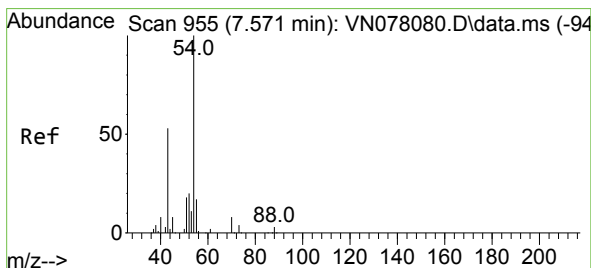
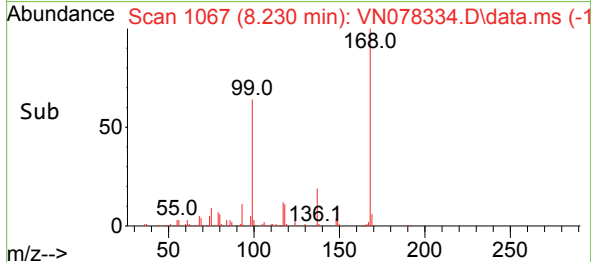
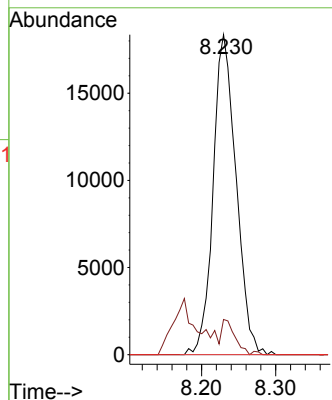
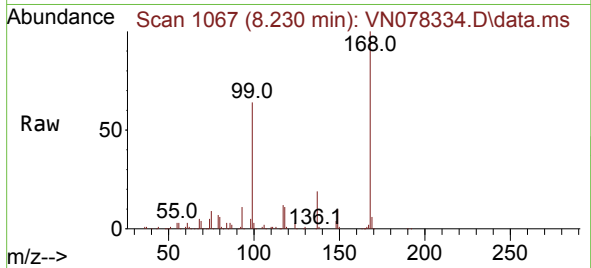




#36
1,1-Dichloropropene
Concen: 5.086 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

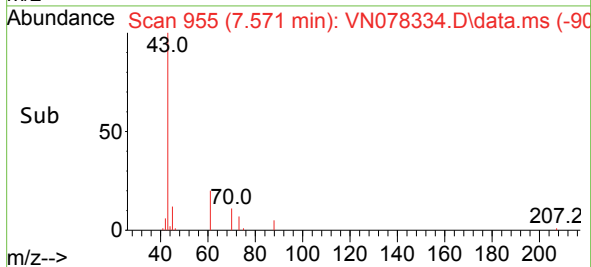
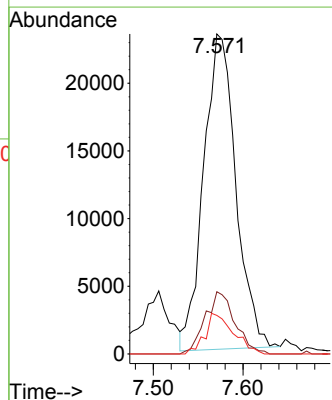
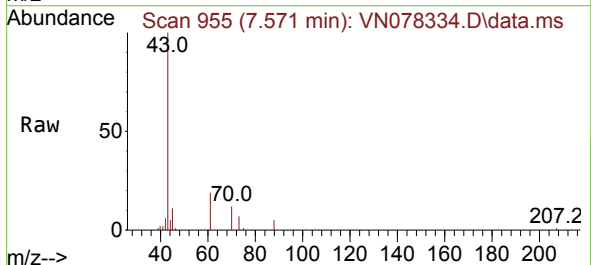
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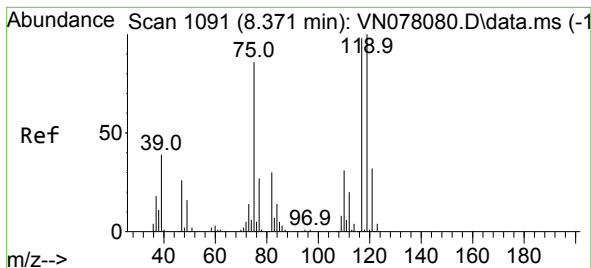
Tgt Ion: 75 Resp: 39487
Ion Ratio Lower Upper
75 100
110 6.5 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 9.573 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.000 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 43 Resp: 58062
Ion Ratio Lower Upper
43 100
61 18.3 13.2 19.8
70 11.3 11.3 16.9





#38

Carbon Tetrachloride

Concen: 5.868 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

Instrument :

MSVOA_N

ClientSampleId :

WC-8

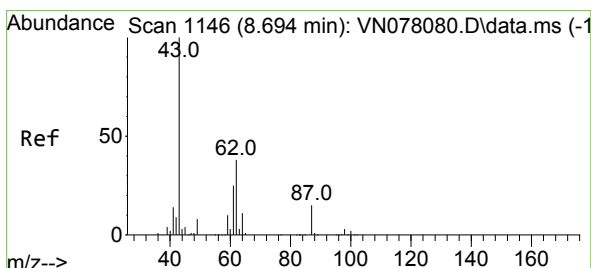
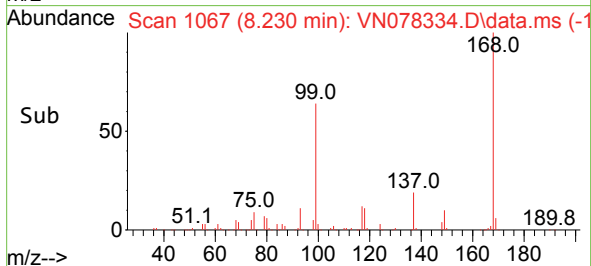
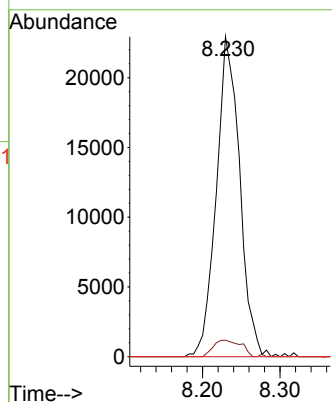
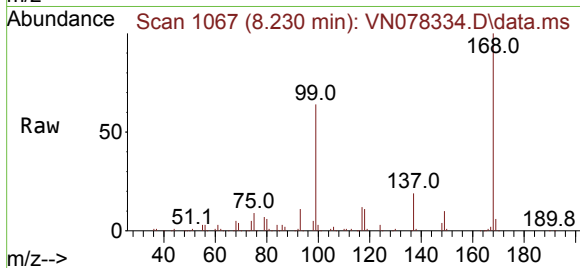
Tgt Ion:117 Resp: 48104

Ion Ratio Lower Upper

117 100

119 5.1 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 46.906 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

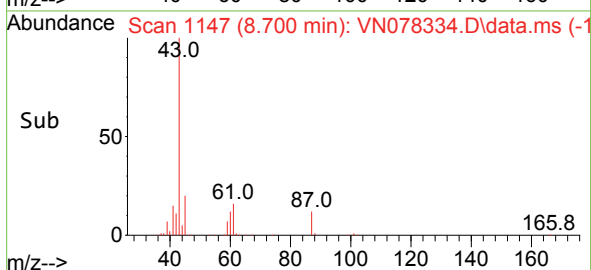
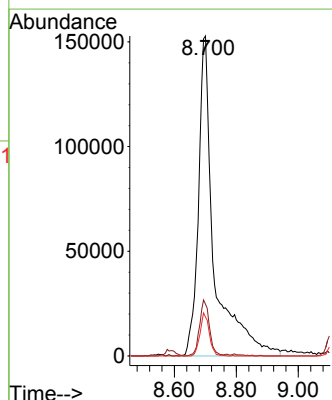
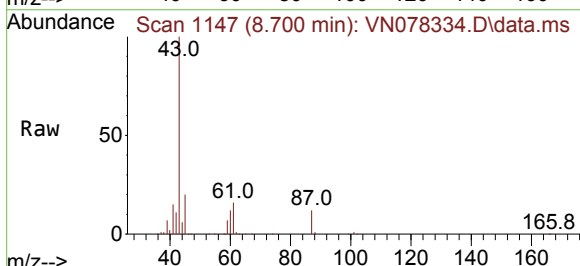
Tgt Ion: 43 Resp: 544079

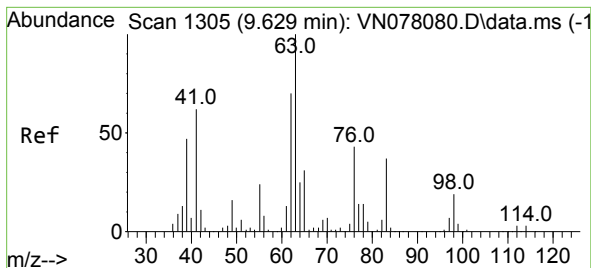
Ion Ratio Lower Upper

43 100

61 10.9 24.7 37.1#

87 7.8 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.564 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.118 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

Instrument :

MSVOA_N

ClientSampleId :

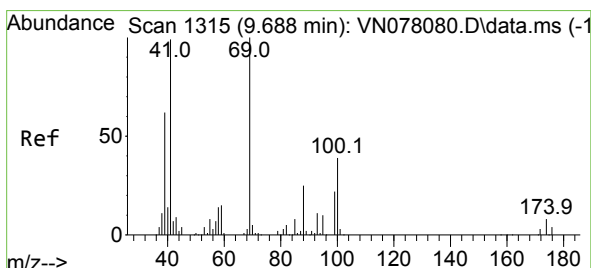
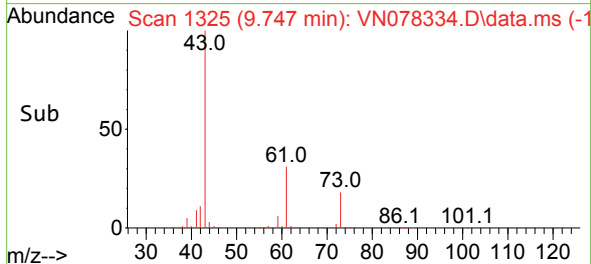
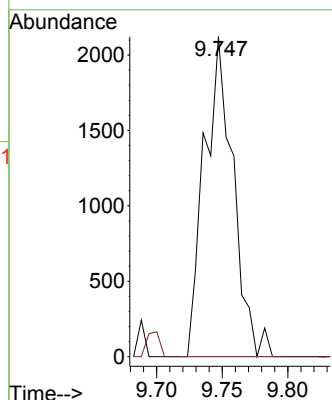
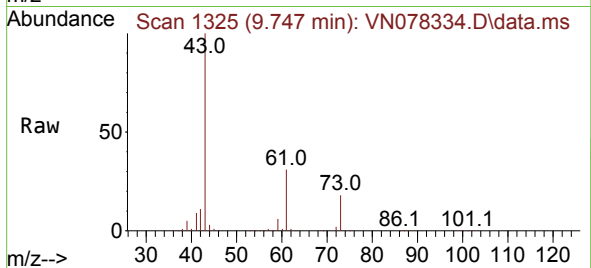
WC-8

Tgt Ion: 63 Resp: 3250

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.888 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.018 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

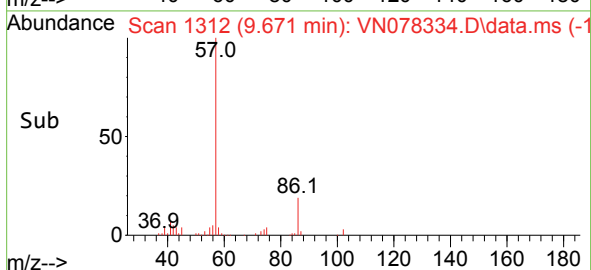
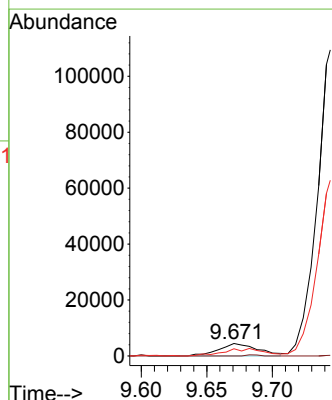
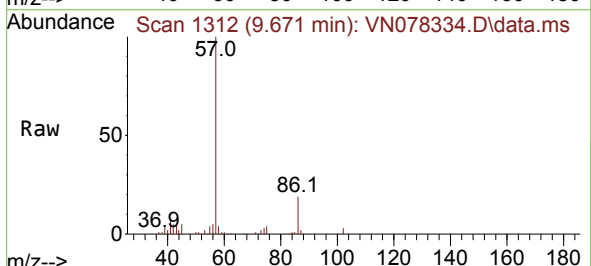
Tgt Ion: 41 Resp: 9188

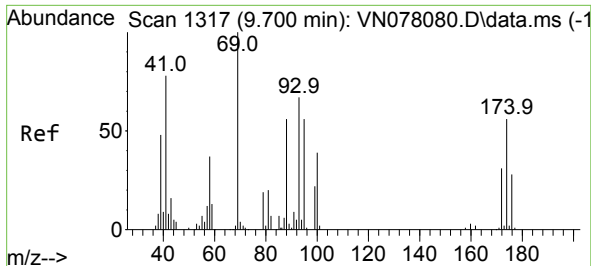
Ion Ratio Lower Upper

41 100

69 2.7 90.4 135.6#

39 61.5 54.6 81.8





#49

1,4-Dioxane

Concen: 3.480 ug/l

RT: 9.753 min Scan# 1317

Delta R.T. 0.053 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

Instrument :

MSVOA_N

ClientSampleId :

WC-8

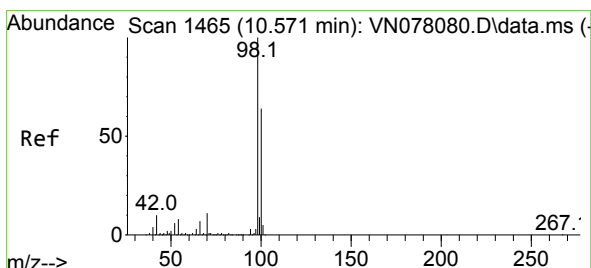
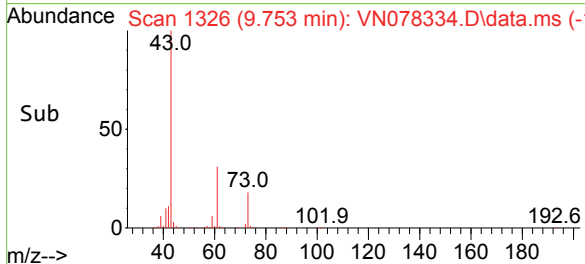
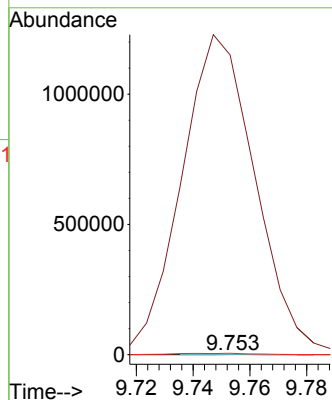
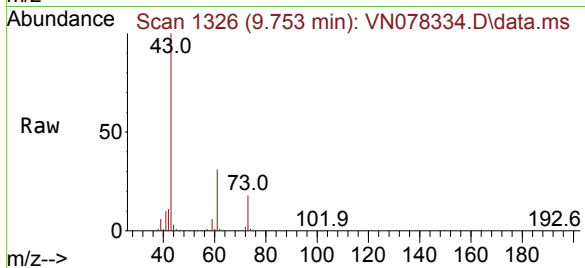
Tgt Ion: 88 Resp: 356

Ion Ratio Lower Upper

88 100

43 630466.9 17.0 25.6#

58 3099.7 47.0 70.4#



#50

Toluene-d8

Concen: 49.517 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078334.D

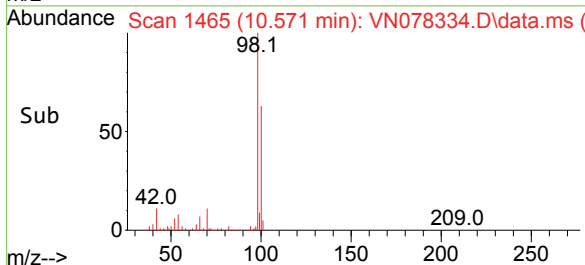
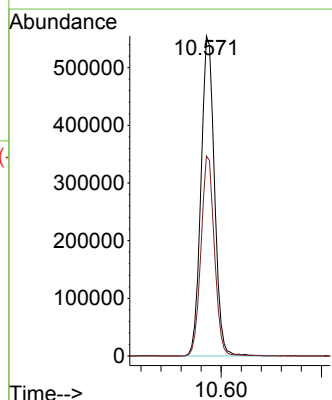
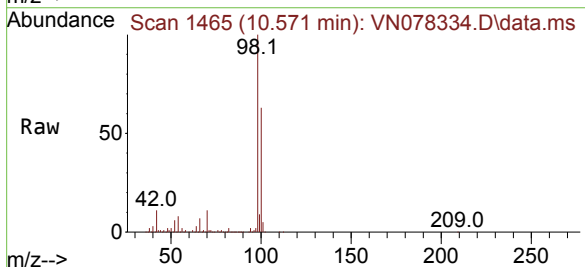
Acq: 21 Jun 2023 19:59

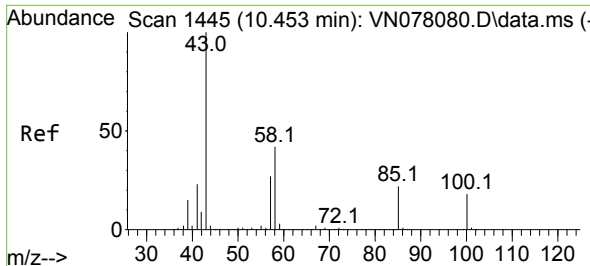
Tgt Ion: 98 Resp: 1033252

Ion Ratio Lower Upper

98 100

100 62.5 52.0 78.0

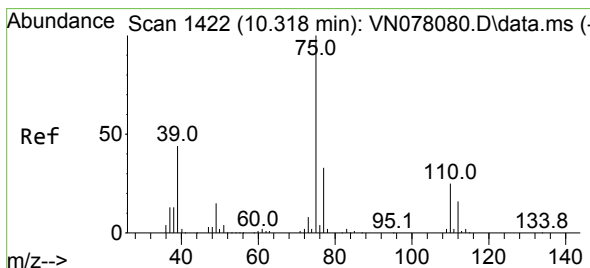
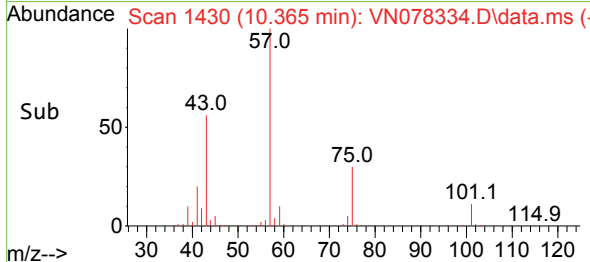
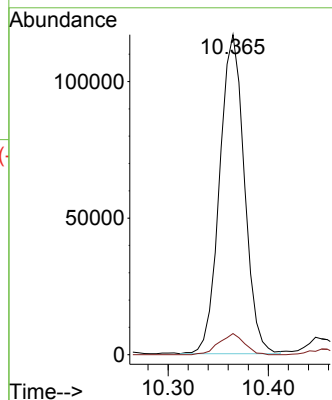
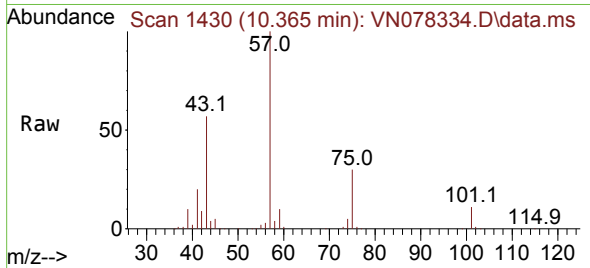




#51
4-Methyl-2-Pentanone
Concen: 32.830 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

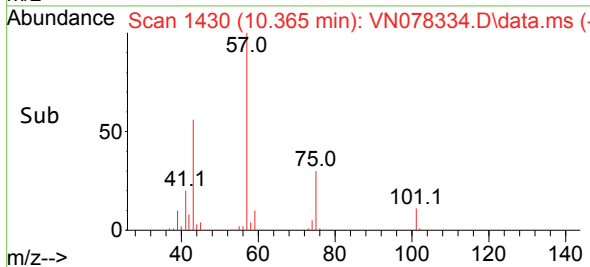
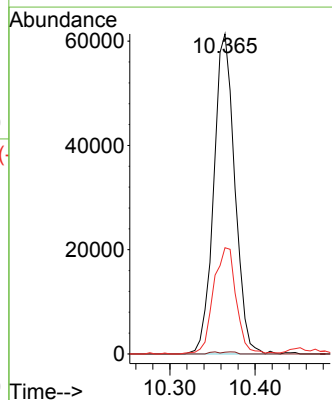
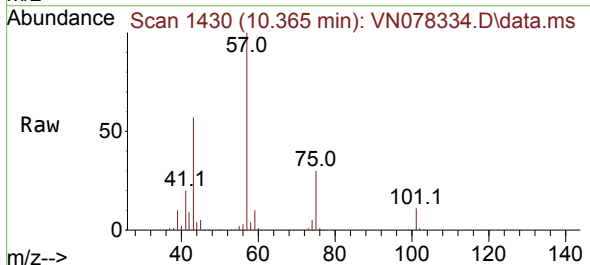
Instrument :
MSVOA_N
ClientSampleId :
WC-8

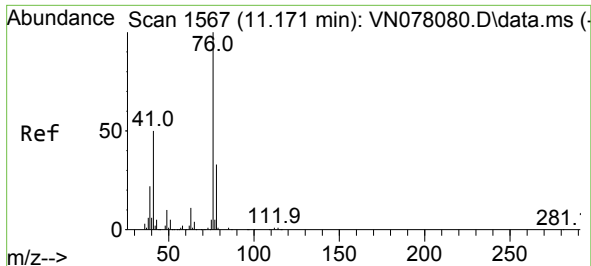
Tgt Ion: 43 Resp: 200530
Ion Ratio Lower Upper
43 100
58 6.8 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 11.582 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 75 Resp: 105201
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 33.2 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.388 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

Instrument :

MSVOA_N

ClientSampleId :

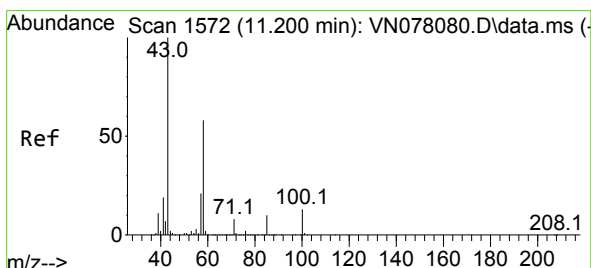
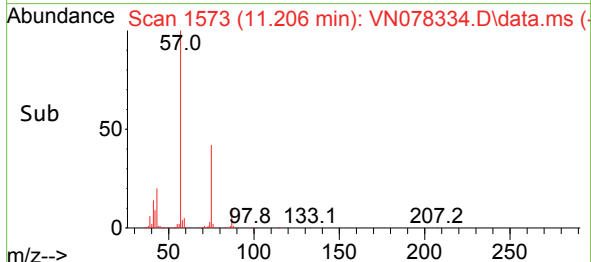
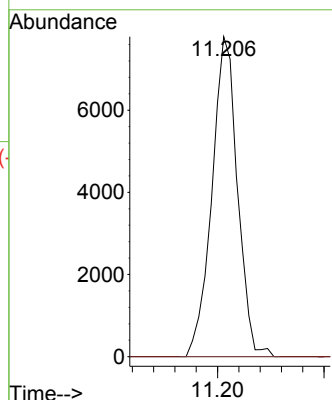
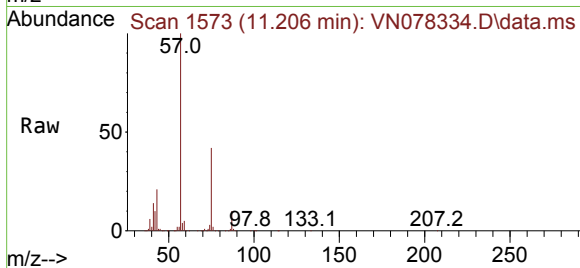
WC-8

Tgt Ion: 76 Resp: 12970

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 55.611 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078334.D

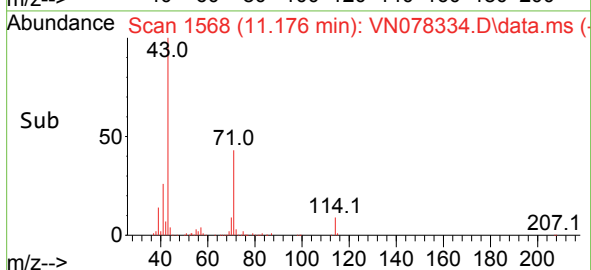
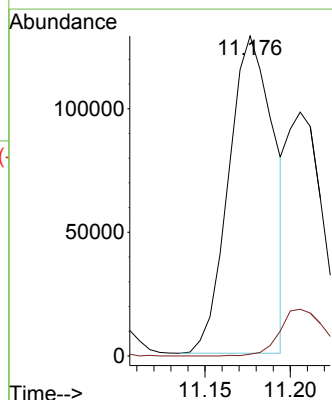
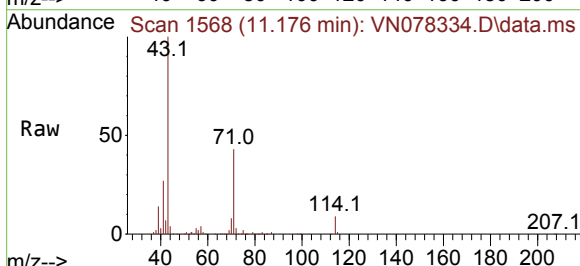
Acq: 21 Jun 2023 19:59

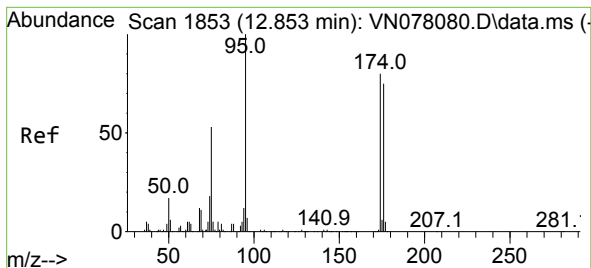
Tgt Ion: 43 Resp: 236515

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

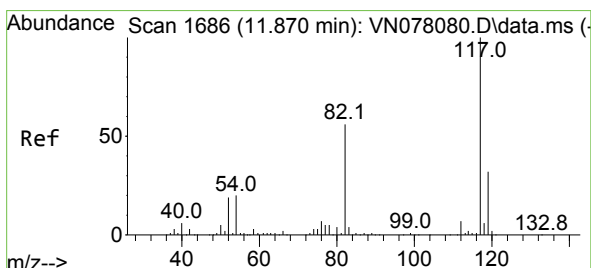
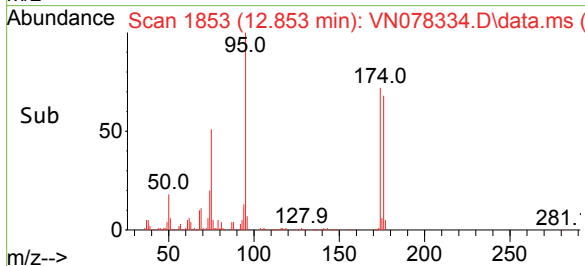
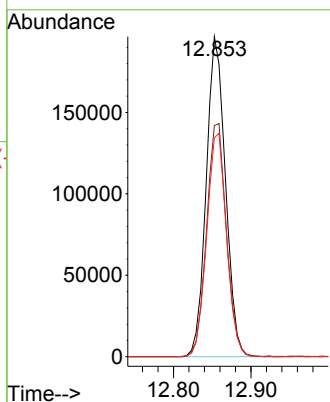
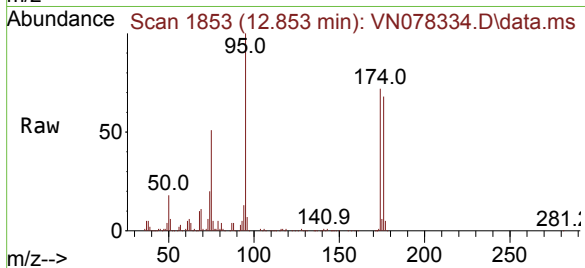




#62
4-Bromofluorobenzene
Concen: 52.153 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

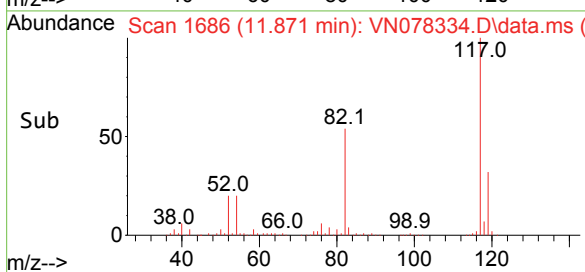
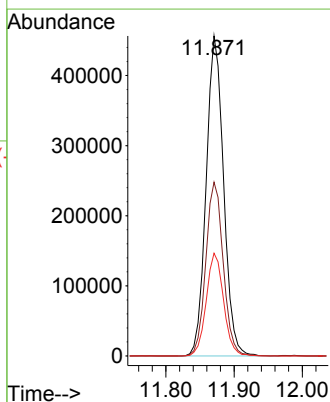
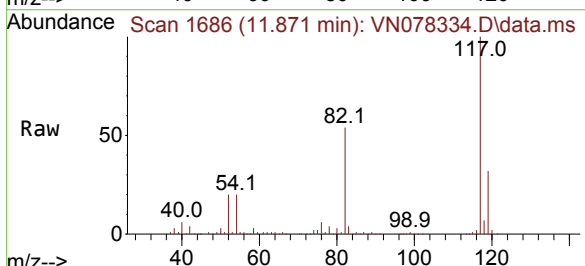
Instrument :
MSVOA_N
ClientSampleId :
WC-8

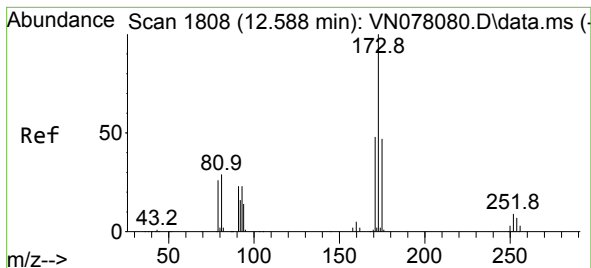
Tgt Ion: 95 Resp: 338313
Ion Ratio Lower Upper
95 100
174 75.4 0.0 143.8
176 71.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 117 Resp: 813056
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 32.1 25.6 38.4





#71

Bromoform

Concen: 0.766 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

Instrument :

MSVOA_N

ClientSampleId :

WC-8

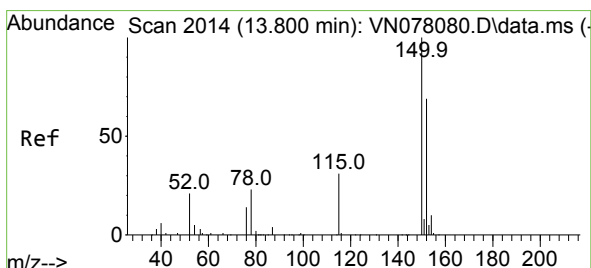
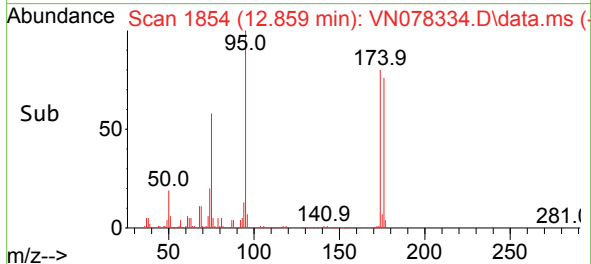
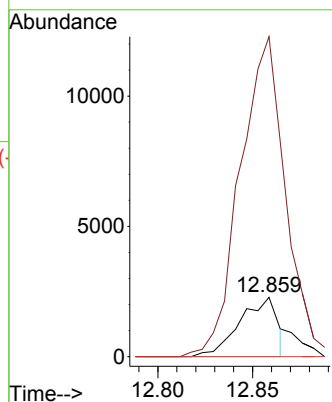
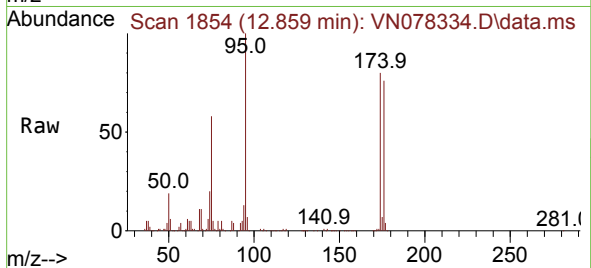
Tgt Ion:173 Resp: 3167

Ion Ratio Lower Upper

173 100

175 557.2 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078334.D

Acq: 21 Jun 2023 19:59

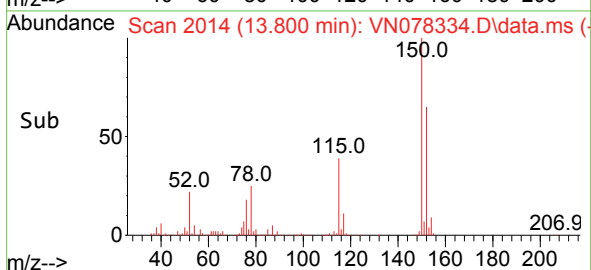
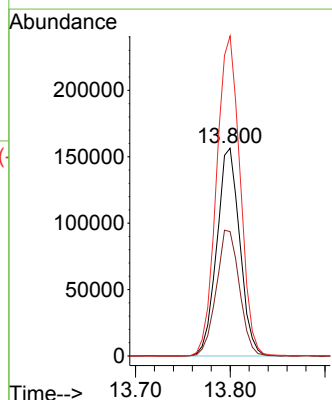
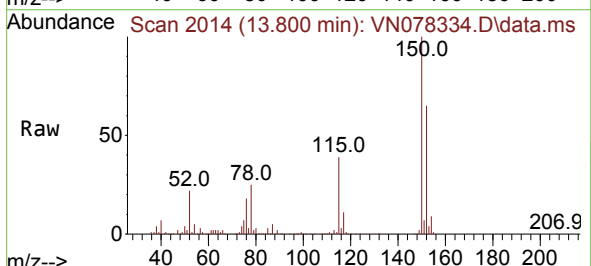
Tgt Ion:152 Resp: 263408

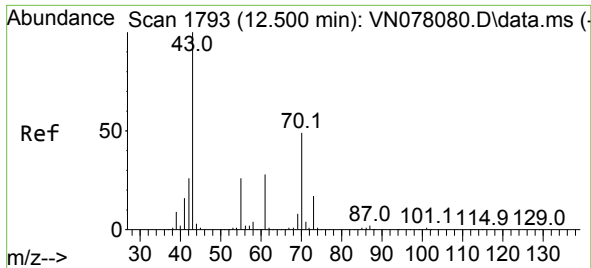
Ion Ratio Lower Upper

152 100

115 61.0 32.3 96.8

150 157.9 0.0 355.8

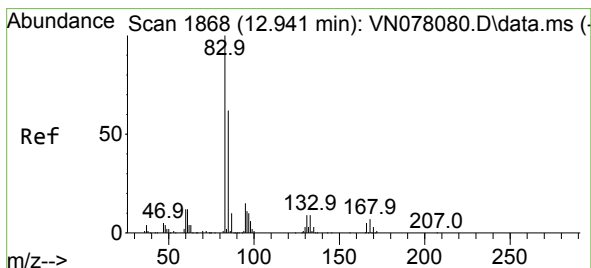
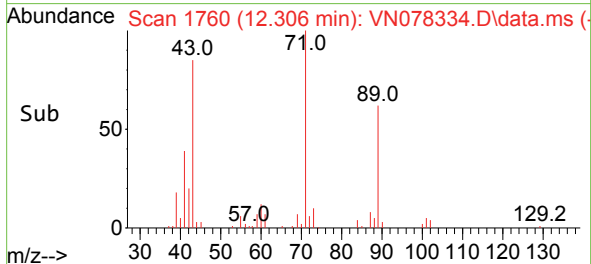
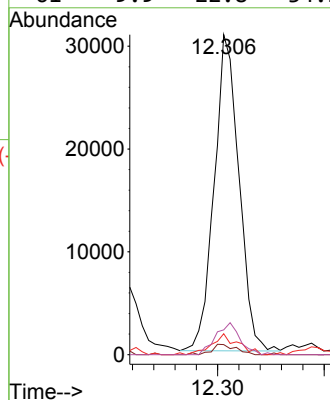
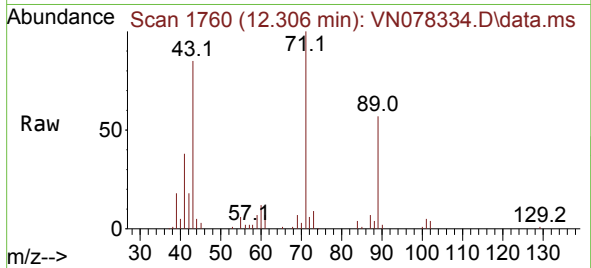




#74
N-amy1 acetate
Concen: 6.050 ug/l
RT: 12.306 min Scan# 1
Delta R.T. -0.194 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

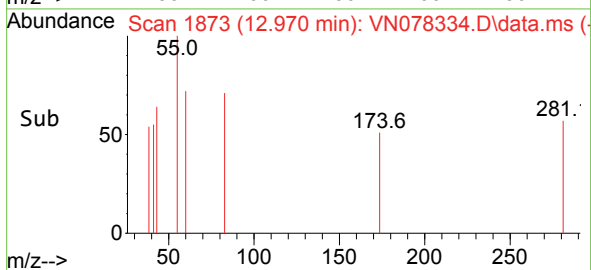
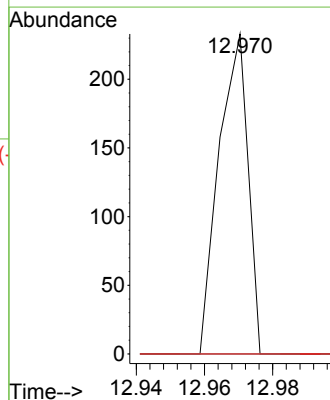
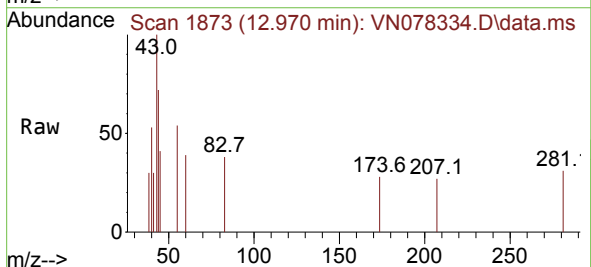
Instrument :
MSVOA_N
ClientSampleId :
WC-8

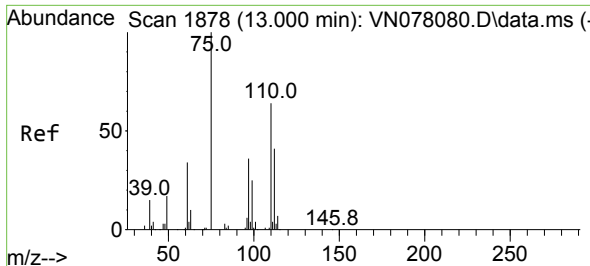
Tgt Ion: 43	Resp: 49627
Ion Ratio	Lower Upper
43	100
70	3.2 43.4 65.2#
55	7.0 21.4 32.0#
61	9.9 22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.970 min Scan# 1873
Delta R.T. 0.029 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 83	Resp: 138
Ion Ratio	Lower Upper
83	100
131	0.0 5.0 15.0#
85	0.0 31.9 95.7#

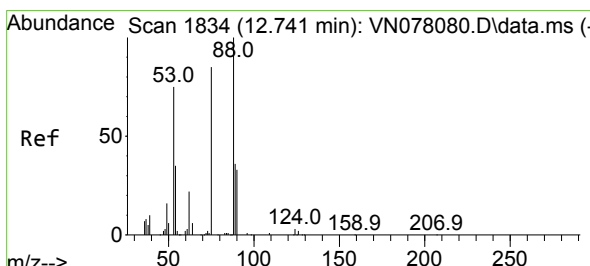
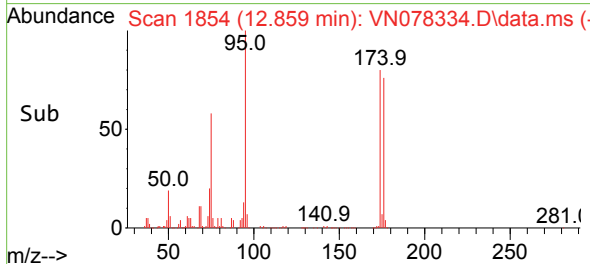
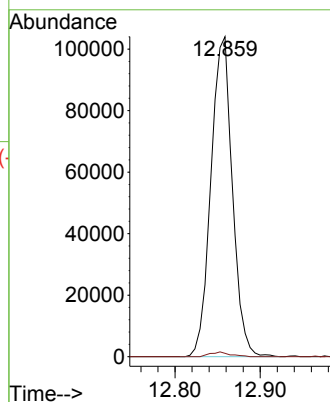
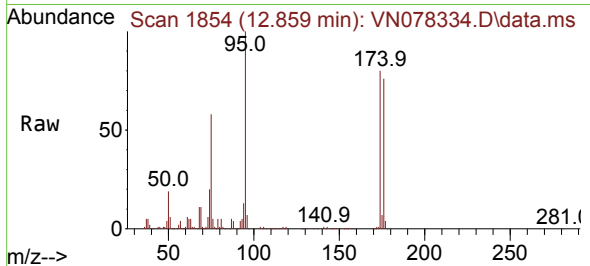




#76
1,2,3-Trichloropropane
Concen: 29.210 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Instrument :
MSVOA_N
ClientSampleId :
WC-8

Tgt Ion: 75 Resp: 181894
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.743 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN078334.D
Acq: 21 Jun 2023 19:59

Tgt Ion: 75 Resp: 181894
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#

