

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062423\
 Data File : VN078394.D
 Acq On : 24 Jun 2023 15:01
 Operator : JC\MD
 Sample : 03393-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SF-10

Quant Time: Jun 26 01:50:26 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)

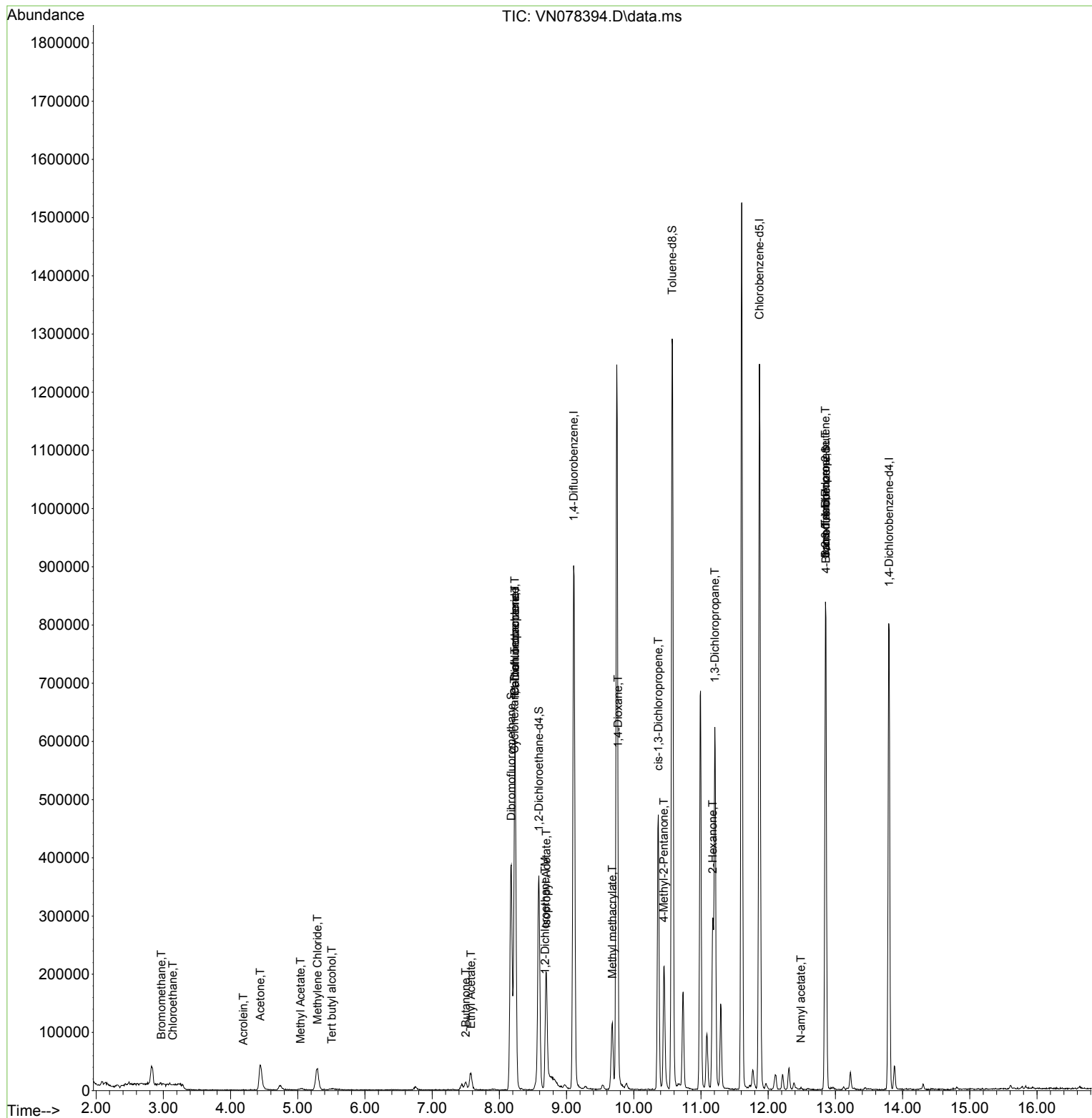
Internal Standards						
1) Pentafluorobenzene	8.230	168	437044	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	810745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	733366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	220548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	298513	51.228	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.460%	
35) Dibromofluoromethane	8.177	113	284675	55.533	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.060%	
50) Toluene-d8	10.571	98	953495	48.249	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 96.500%	
62) 4-Bromofluorobenzene	12.859	95	297174	48.372	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.740%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1182	Below Cal		90
5) Bromomethane	2.971	94	1510	0.309 ug/l	#	12
6) Chloroethane	3.142	64	1074	0.244 ug/l		93
11) Tert butyl alcohol	5.506	59	1077	1.339 ug/l	#	72
13) Acrolein	4.189	56	369	0.416 ug/l	#	58
16) Acetone	4.442	43	82680	49.295 ug/l		98
18) Methyl Acetate	5.042	43	3471	0.449 ug/l	#	68
20) Methylene Chloride	5.294	84	31005	5.594 ug/l		96
25) 2-Butanone	7.500	43	19482	7.553 ug/l	#	87
31) Cyclohexane	8.224	56	9884	1.322 ug/l	#	47
36) 1,1-Dichloropropene	8.235	75	37239	5.064 ug/l	#	49
37) Ethyl Acetate	7.577	43	44400	7.730 ug/l		96
38) Carbon Tetrachloride	8.230	117	49085	6.322 ug/l	#	17
42) 1,2-Dichloroethane	8.682	62	1667	0.221 ug/l	#	73
43) Isopropyl Acetate	8.700	43	236533	21.532 ug/l	#	81
48) Methyl methacrylate	9.682	41	6179	1.340 ug/l	#	34
49) 1,4-Dioxane	9.765	88	66	0.681 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.447	43	146308	25.292 ug/l		90
54) cis-1,3-Dichloropropene	10.365	75	86965	10.109 ug/l	#	71
57) 1,3-Dichloropropane	11.206	76	7257	0.820 ug/l	#	42
59) 2-Hexanone	11.176	43	298572	74.126 ug/l	#	19
71) Bromoform	12.853	173	2695	0.723 ug/l	#	1
74) N-amyl acetate	12.488	43	2771	0.403 ug/l	#	44
75) 1,1,2,2-Tetrachloroethane	12.959	83	1363	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	157296	30.169 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	157296	92.689 ug/l	#	15

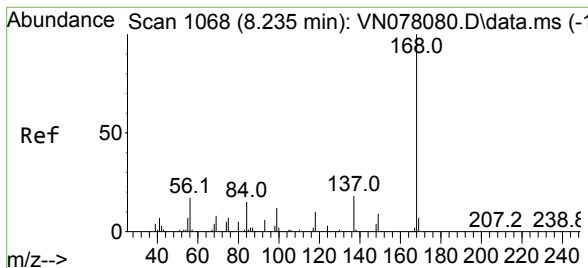
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

Instrument :

MSVOA_N

ClientSampleId :

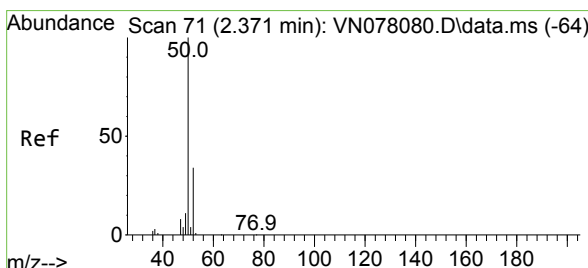
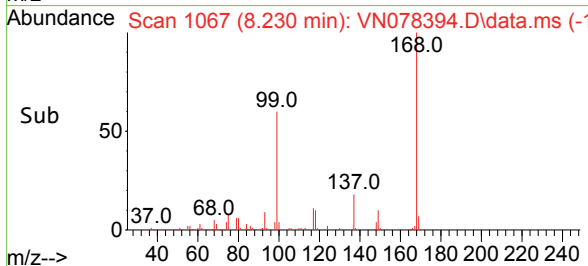
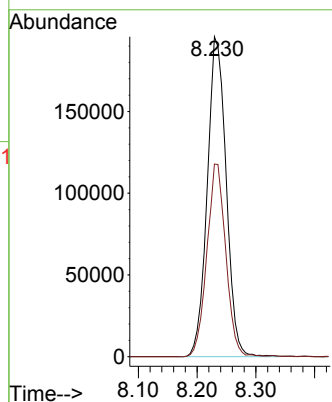
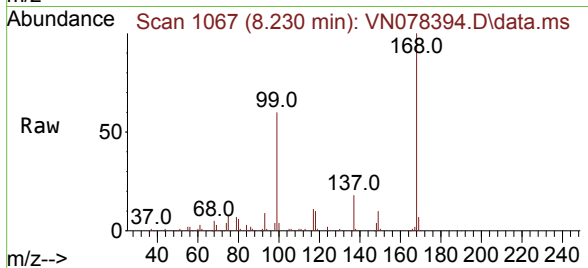
SF-10

Tgt Ion:168 Resp: 437044

Ion Ratio Lower Upper

168 100

99 60.2 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078394.D

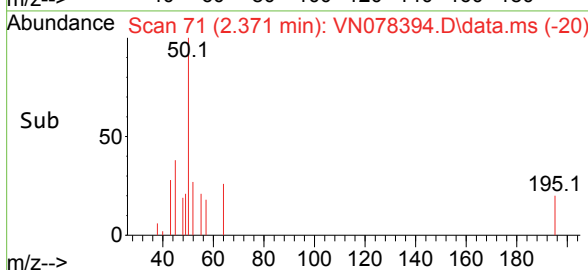
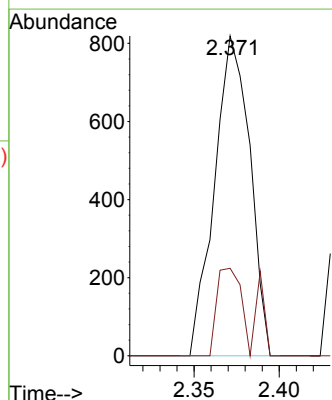
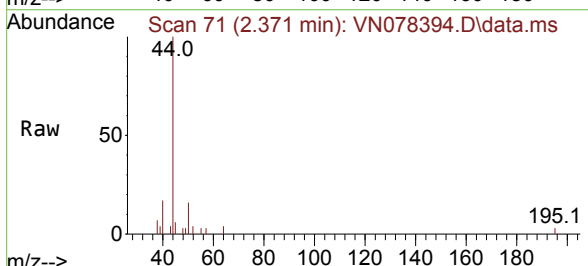
Acq: 24 Jun 2023 15:01

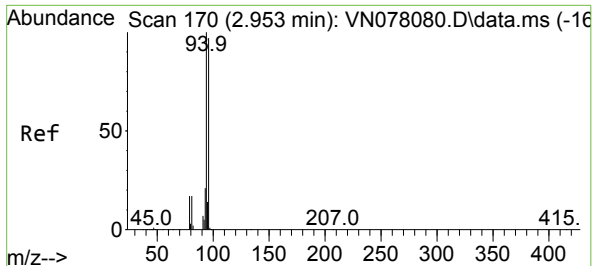
Tgt Ion: 50 Resp: 1182

Ion Ratio Lower Upper

50 100

52 27.4 26.5 39.7

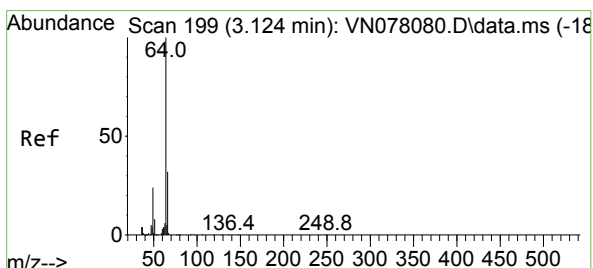
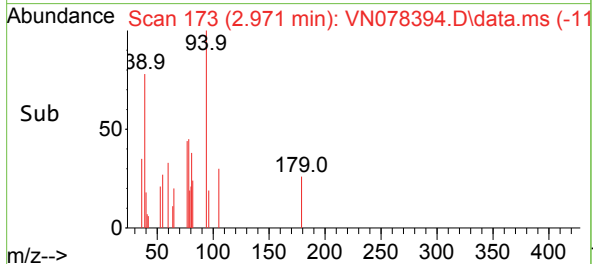
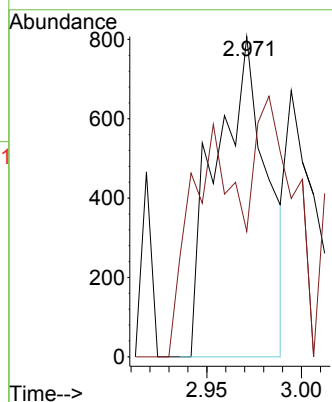
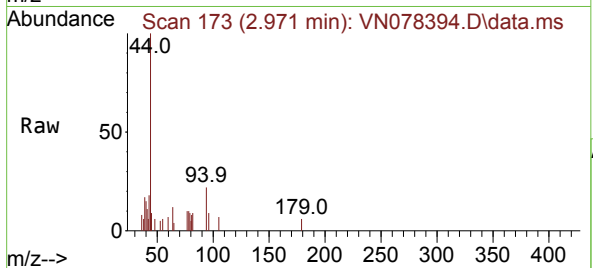




#5
Bromomethane
Concen: 0.309 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

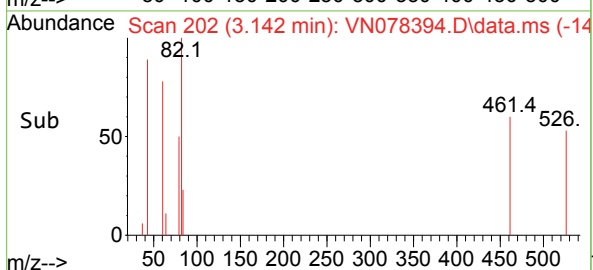
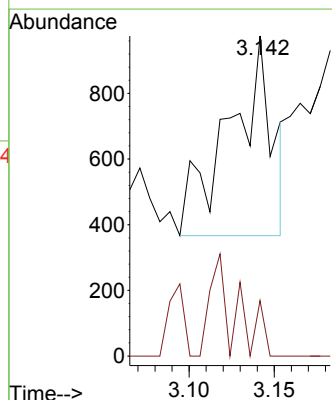
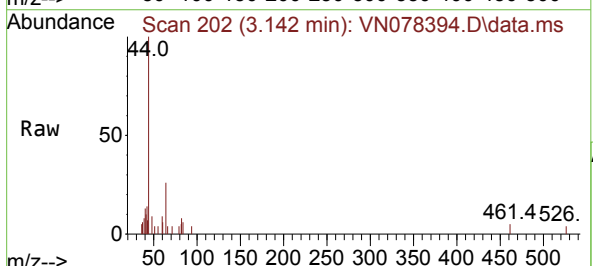
Instrument :
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ClientSampleId :
SF-10

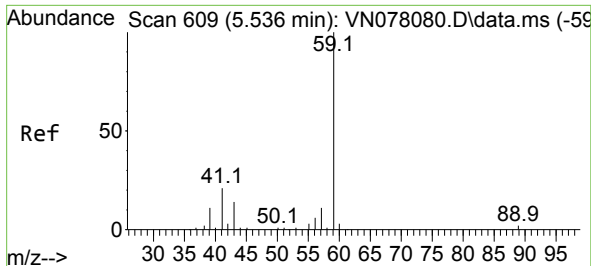
Tgt Ion: 94 Resp: 1510
Ion Ratio Lower Upper
94 100
96 8.1 73.1 109.7#



#6
Chloroethane
Concen: 0.244 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.018 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 64 Resp: 1074
Ion Ratio Lower Upper
64 100
66 27.8 25.4 38.2

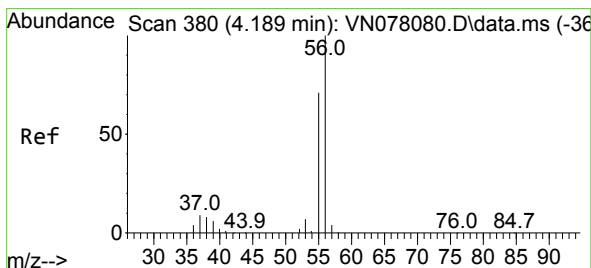
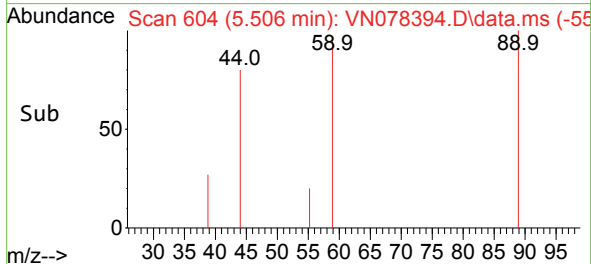
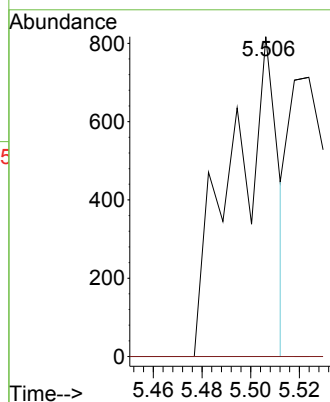
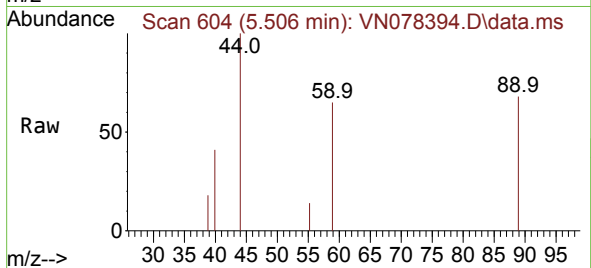




#11
Tert butyl alcohol
Concen: 1.339 ug/l
RT: 5.506 min Scan# 609
Delta R.T. -0.029 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

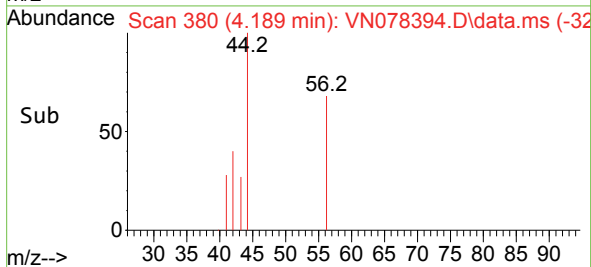
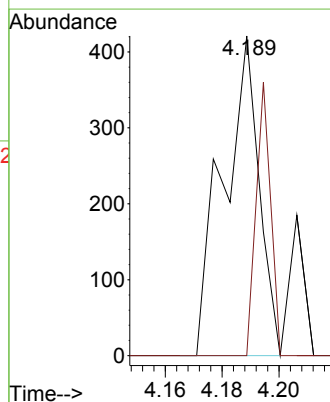
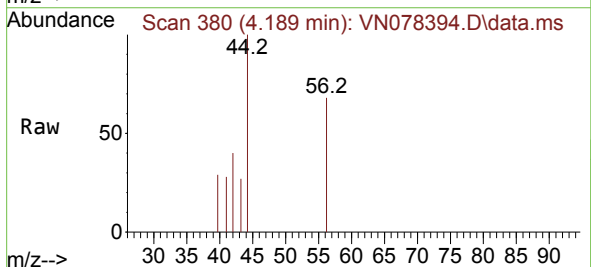
Instrument :
MSVOA_N
ClientSampleId :
SF-10

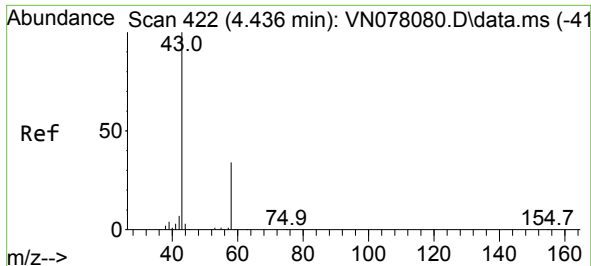
Tgt Ion: 59 Resp: 1077
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.416 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.000 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 56 Resp: 369
Ion Ratio Lower Upper
56 100
55 34.4 54.5 81.7#

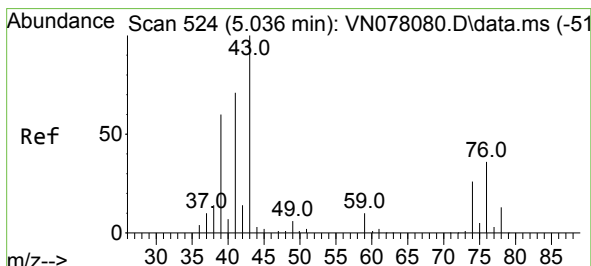
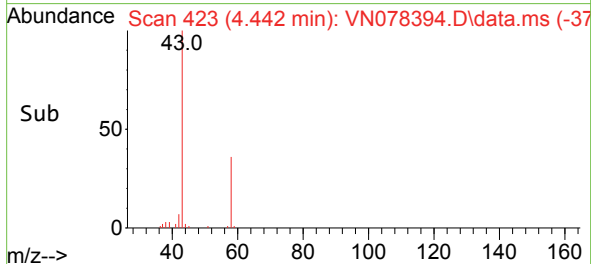
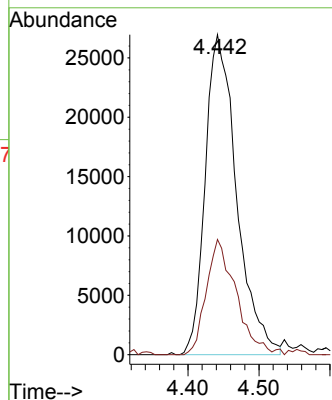
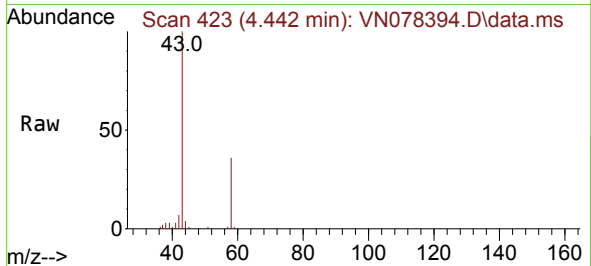




#16
Acetone
Concen: 49.295 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

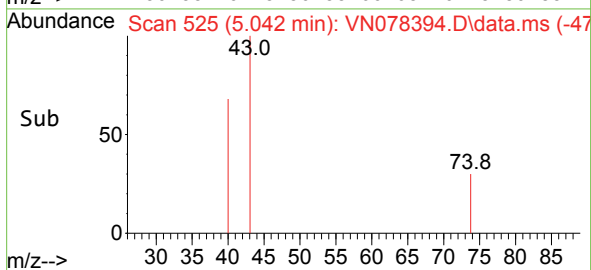
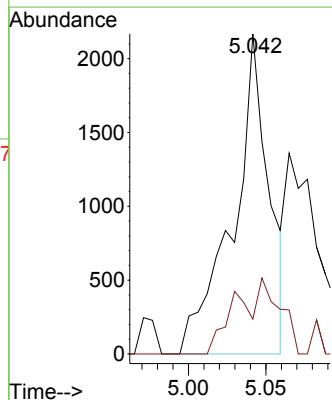
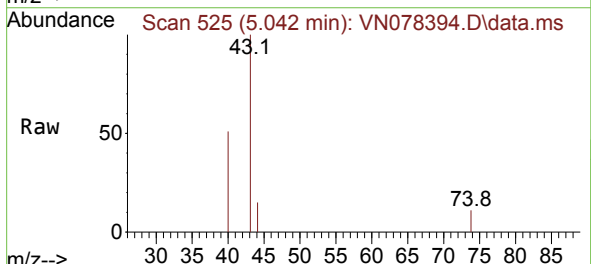
Instrument :
MSVOA_N
ClientSampleId :
SF-10

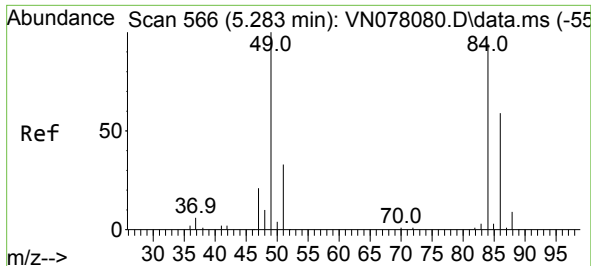
Tgt Ion: 43 Resp: 82680
Ion Ratio Lower Upper
43 100
58 36.0 28.0 42.0



#18
Methyl Acetate
Concen: 0.449 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 43 Resp: 3471
Ion Ratio Lower Upper
43 100
74 14.9 26.2 39.4#

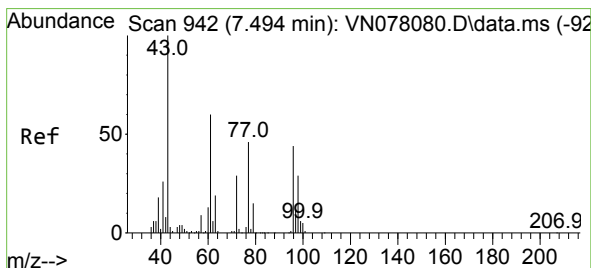
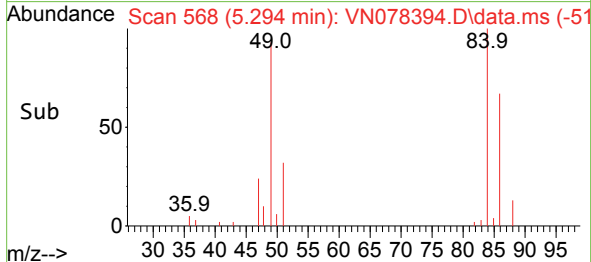
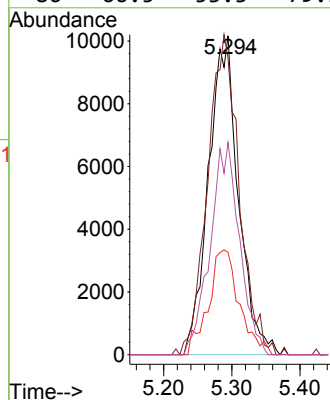
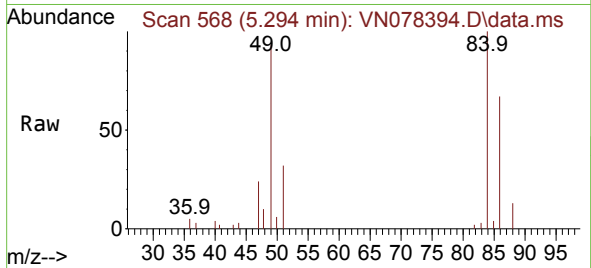




#20
Methylene Chloride
Concen: 5.594 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

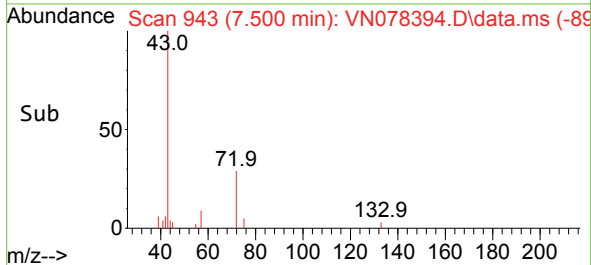
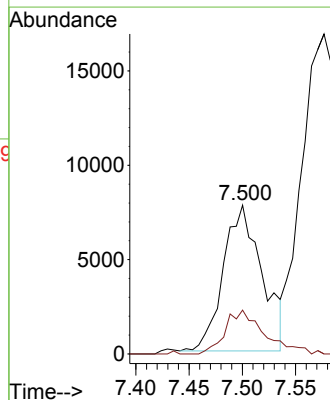
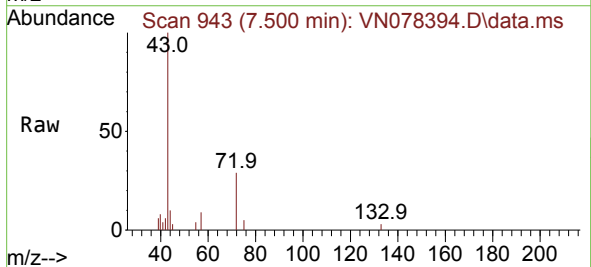
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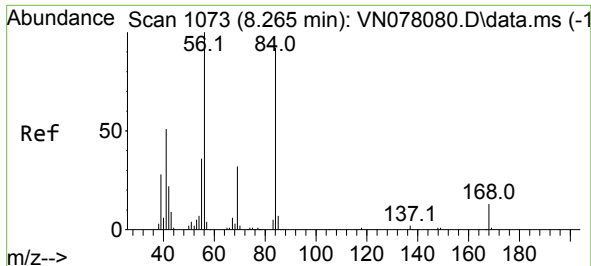
Tgt Ion: 84	Resp: 31005
Ion Ratio	Lower Upper
84 100	
49 93.0	79.7 119.5
51 32.1	25.2 37.8
86 66.5	53.3 79.9



#25
2-Butanone
Concen: 7.553 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 43	Resp: 19482
Ion Ratio	Lower Upper
43 100	
72 30.1	30.2 45.2#

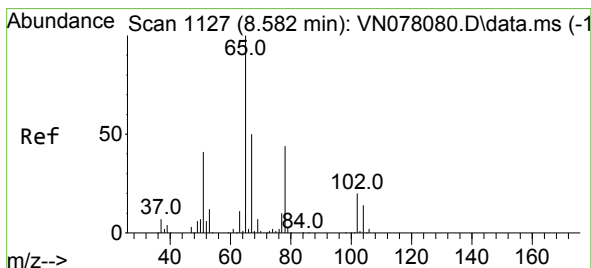
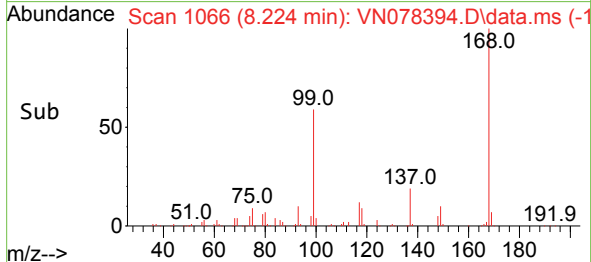
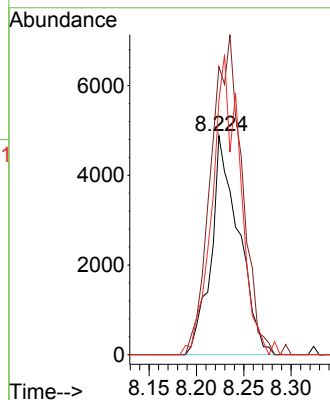
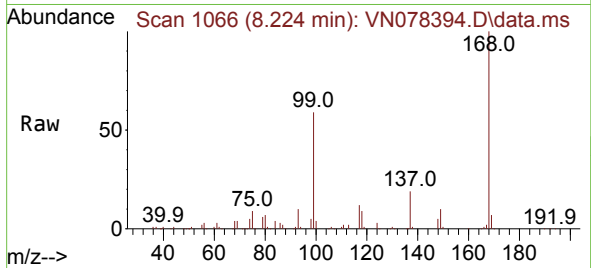




#31
Cyclohexane
Concen: 1.322 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

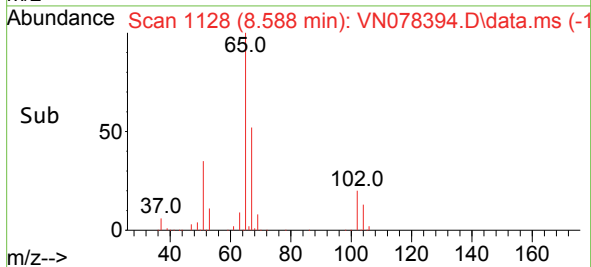
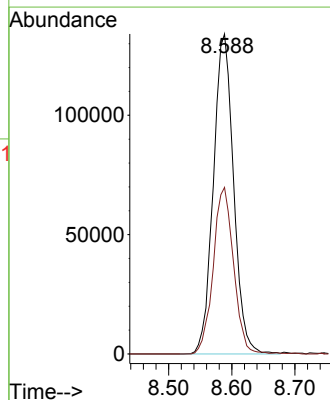
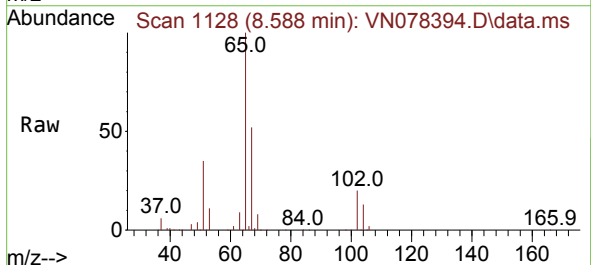
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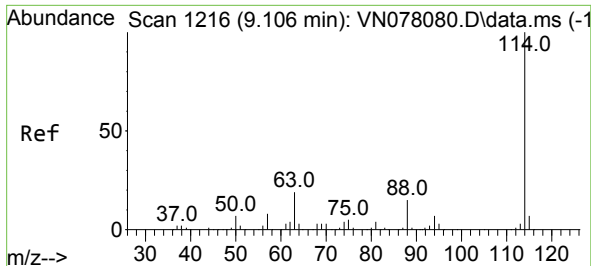
Tgt Ion: 56 Resp: 9884
Ion Ratio Lower Upper
56 100
69 131.6 26.8 40.2#
84 116.1 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 51.228 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 65 Resp: 298513
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

Instrument :

MSVOA_N

ClientSampleId :

SF-10

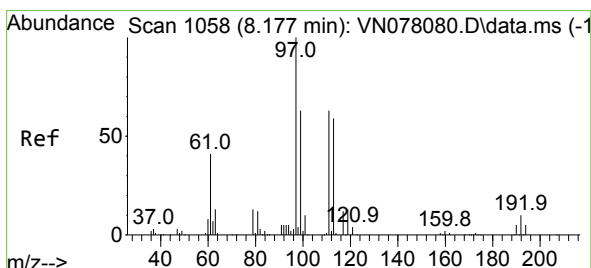
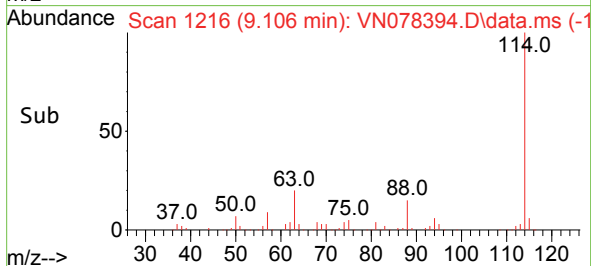
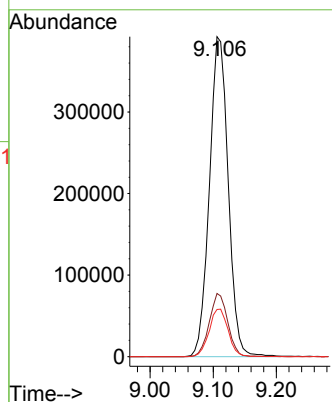
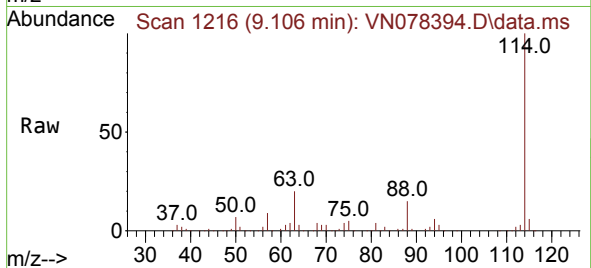
Tgt Ion:114 Resp: 810745

Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.4

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.533 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

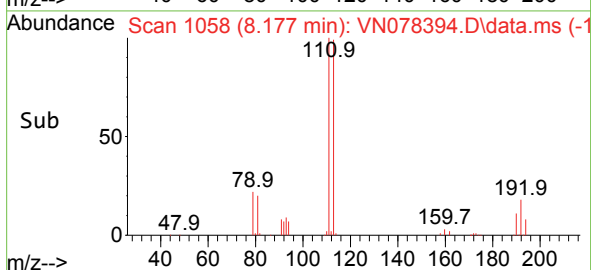
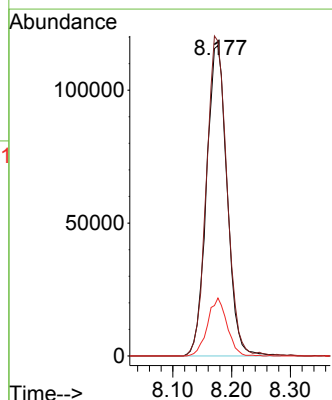
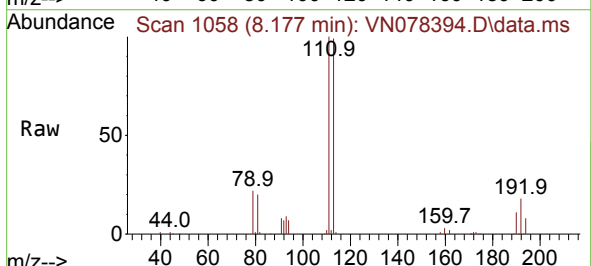
Tgt Ion:113 Resp: 284675

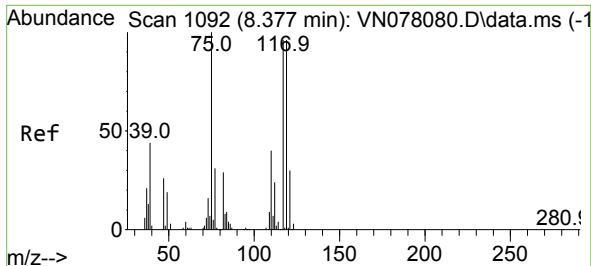
Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

192 17.7 12.7 19.1

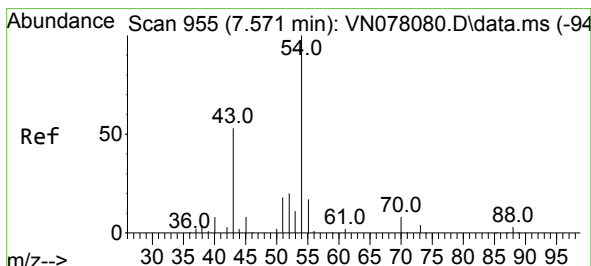
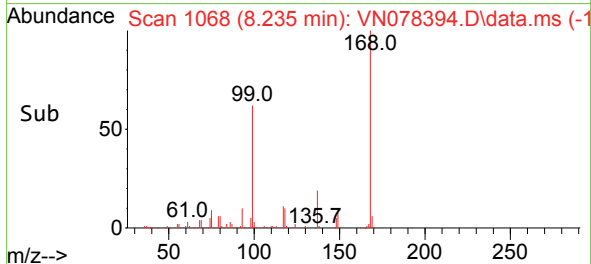
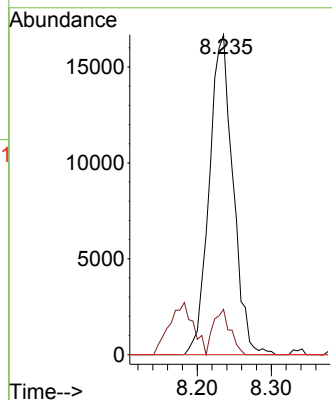
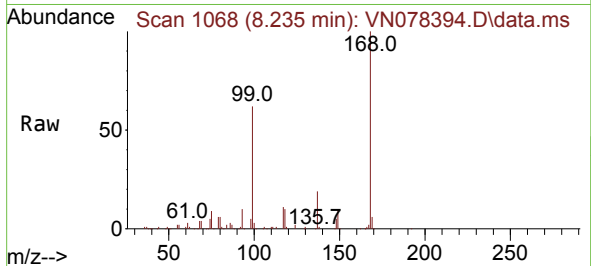




#36
1,1-Dichloropropene
Concen: 5.064 ug/l
RT: 8.235 min Scan# 1092
Delta R.T. -0.141 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

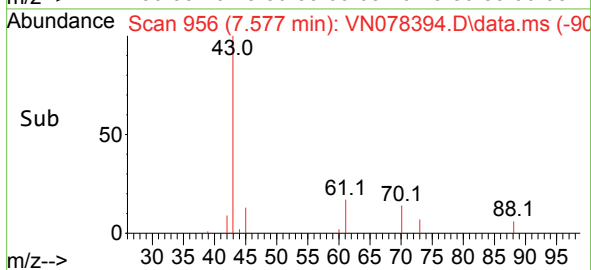
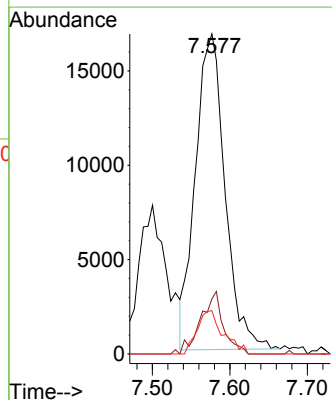
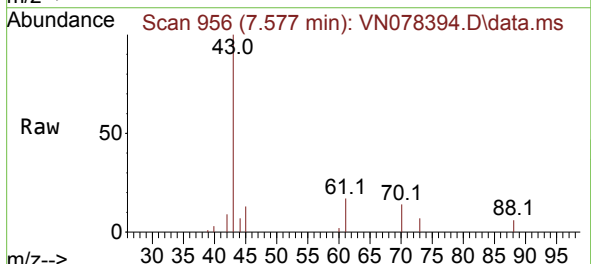
Instrument :
MSVOA_N
ClientSampleId :
SF-10

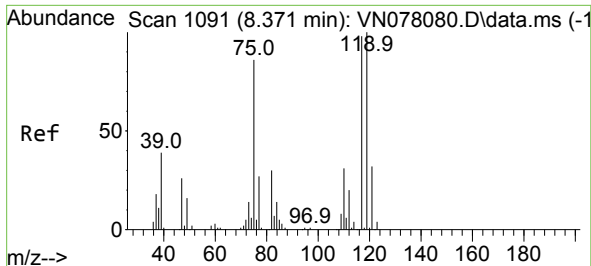
Tgt Ion: 75 Resp: 37239
Ion Ratio Lower Upper
75 100
110 10.1 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 7.730 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

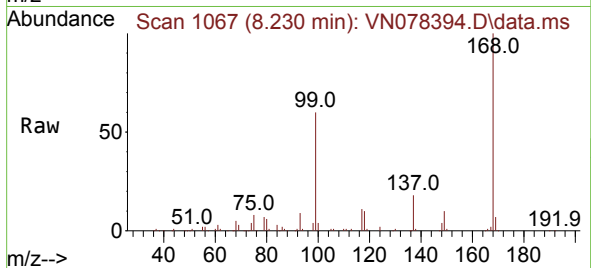
Tgt Ion: 43 Resp: 44400
Ion Ratio Lower Upper
43 100
61 15.3 13.2 19.8
70 12.1 11.3 16.9



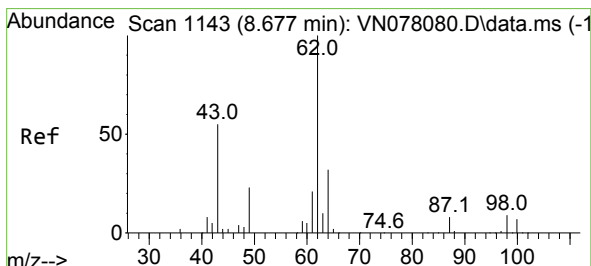
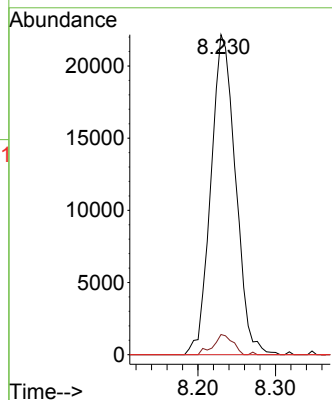
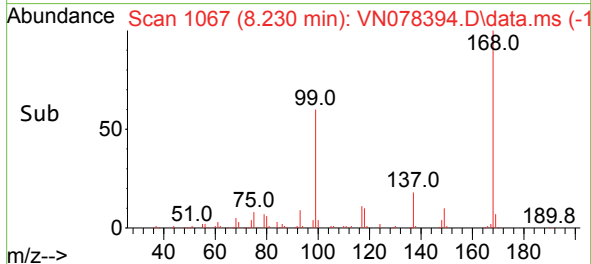


#38
Carbon Tetrachloride
Concen: 6.322 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Instrument :
MSVOA_N
ClientSampleId :
SF-10

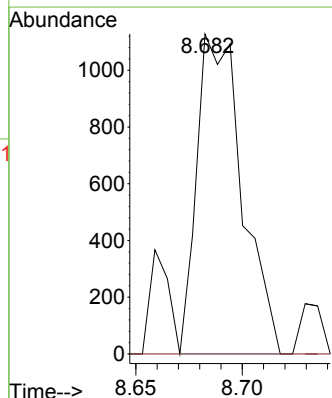
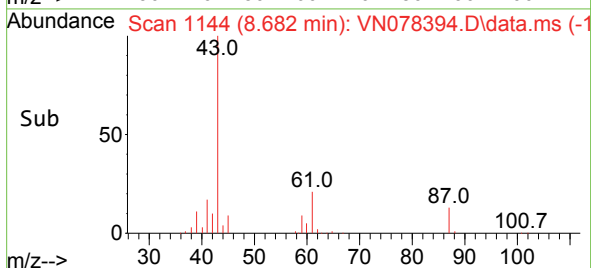
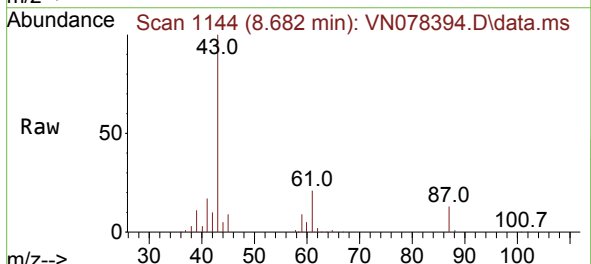


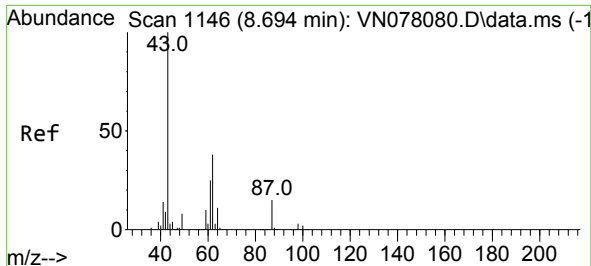
Tgt Ion:117 Resp: 49085
Ion Ratio Lower Upper
117 100
119 6.3 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.221 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 62 Resp: 1667
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

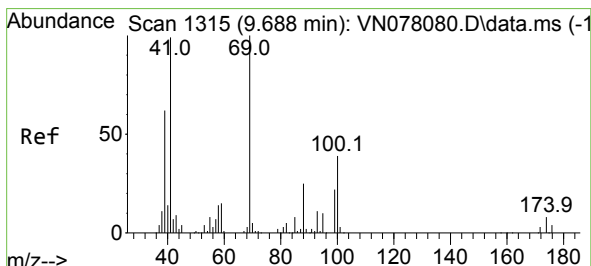
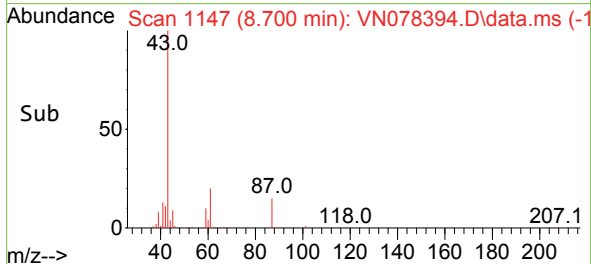
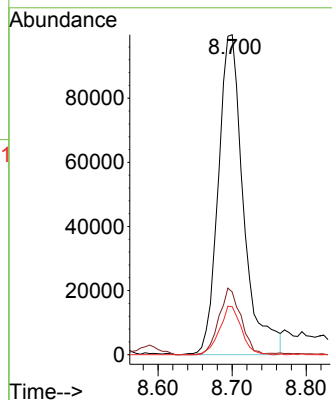
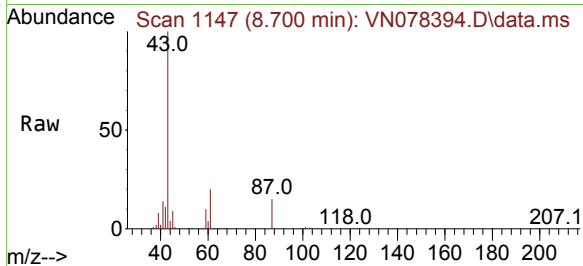




#43
Isopropyl Acetate
Concen: 21.532 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

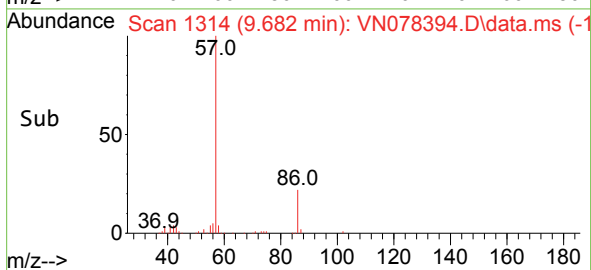
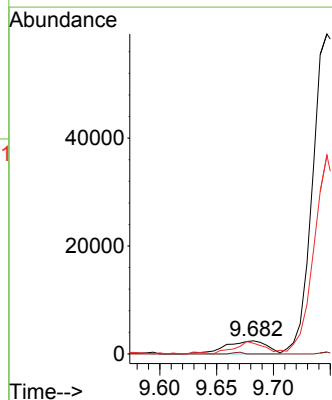
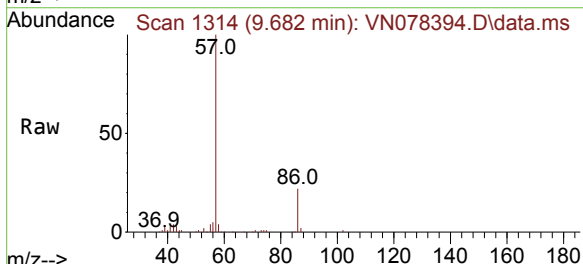
Instrument :
MSVOA_N
ClientSampleId :
SF-10

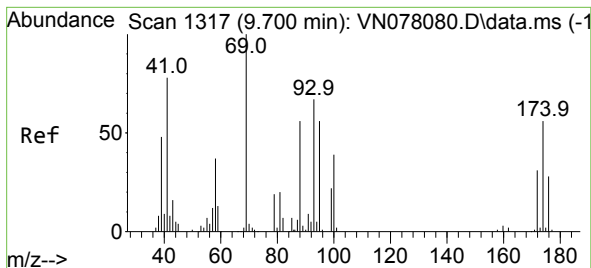
Tgt Ion: 43 Resp: 236533
Ion Ratio Lower Upper
43 100
61 18.1 24.7 37.1#
87 13.0 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.340 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 41 Resp: 6179
Ion Ratio Lower Upper
41 100
69 3.1 90.4 135.6#
39 64.0 54.6 81.8





#49

1,4-Dioxane

Concen: 0.681 ug/l

RT: 9.765 min Scan# 11

Delta R.T. 0.065 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

Instrument :

MSVOA_N

ClientSampleId :

SF-10

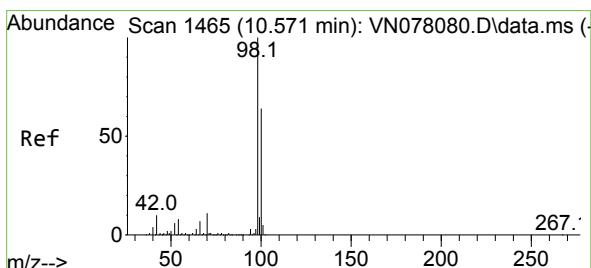
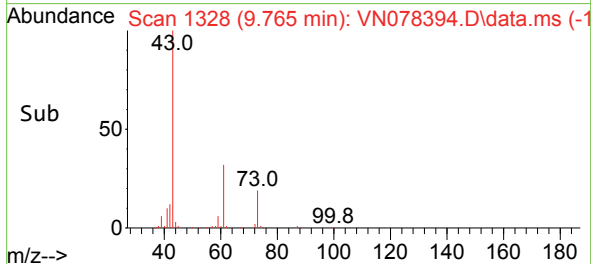
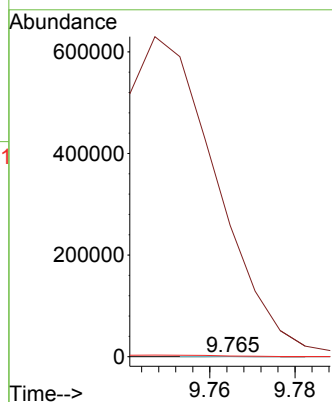
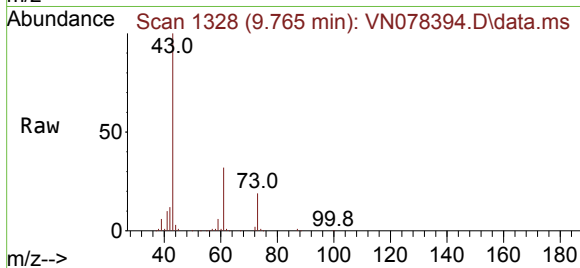
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 1742343.9 17.0 25.6#

58 9947.0 47.0 70.4#



#50

Toluene-d8

Concen: 48.249 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078394.D

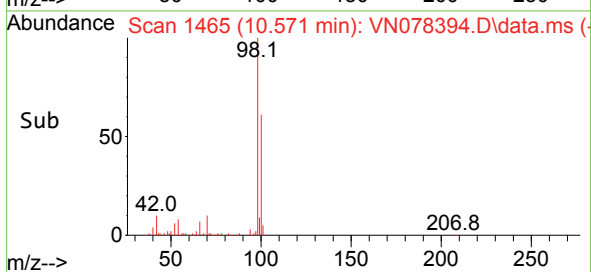
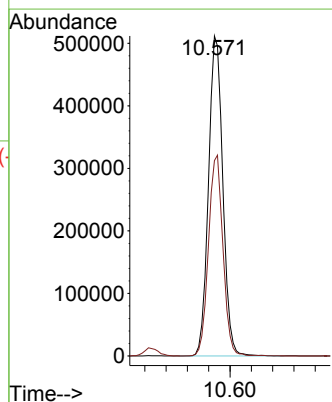
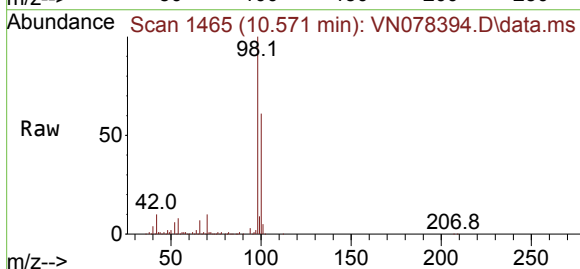
Acq: 24 Jun 2023 15:01

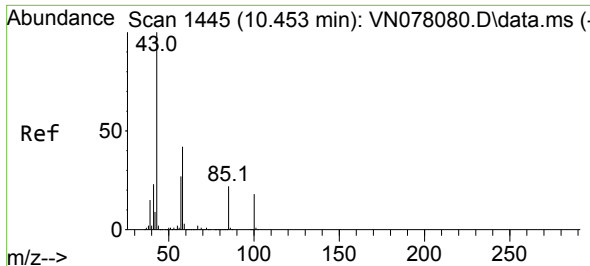
Tgt Ion: 98 Resp: 953495

Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0

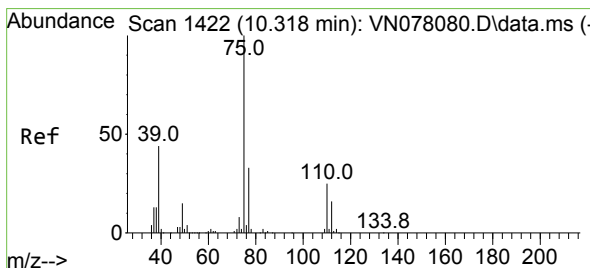
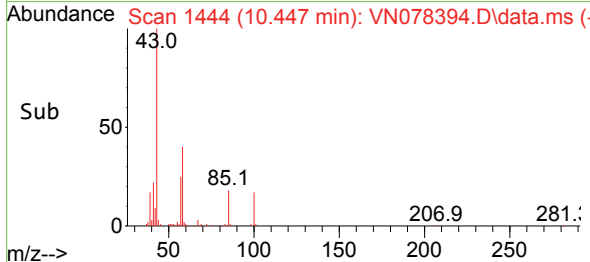
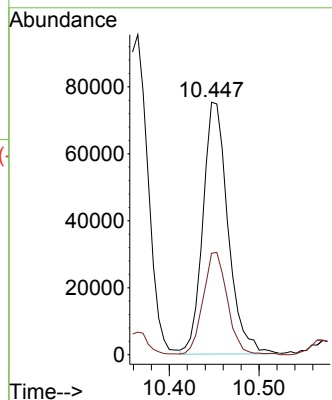
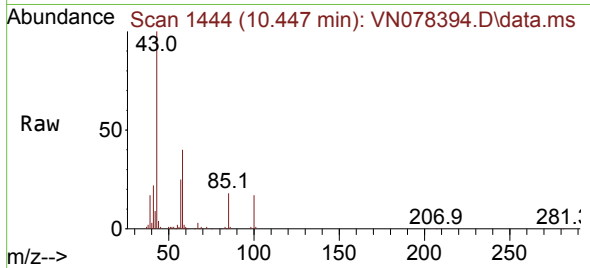




#51
4-Methyl-2-Pentanone
Concen: 25.292 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

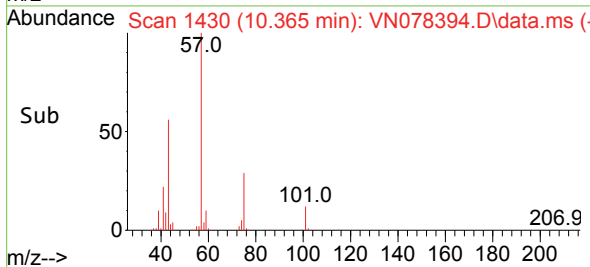
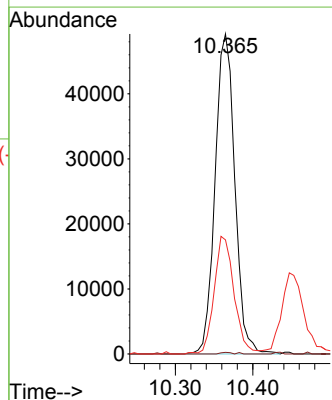
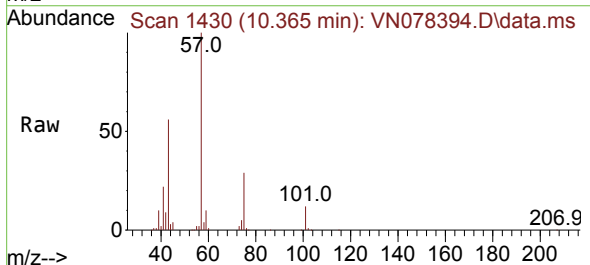
Instrument :
MSVOA_N
ClientSampleId :
SF-10

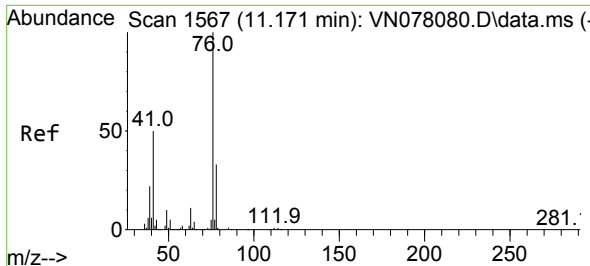
Tgt Ion: 43 Resp: 146308
Ion Ratio Lower Upper
43 100
58 39.3 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 10.109 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 75 Resp: 86965
Ion Ratio Lower Upper
75 100
77 0.5 26.1 39.1#
39 35.6 31.6 47.4





#57

1,3-Dichloropropane

Concen: 0.820 ug/l

RT: 11.206 min Scan# 1568

Delta R.T. 0.035 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

Instrument :

MSVOA_N

ClientSampleId :

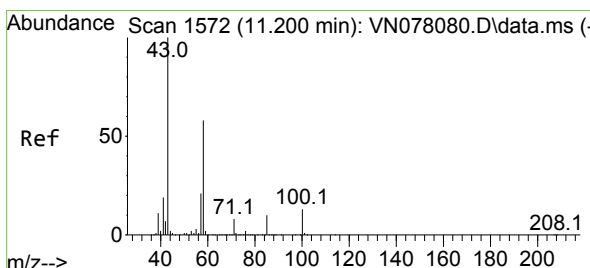
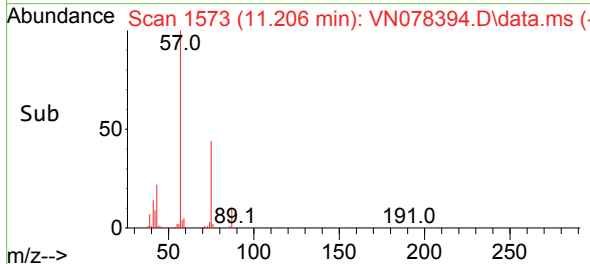
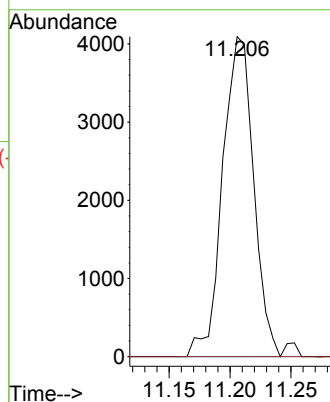
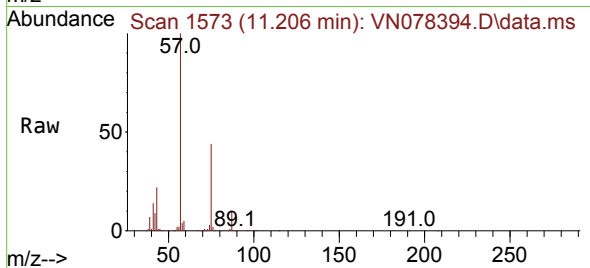
SF-10

Tgt Ion: 76 Resp: 7257

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 74.126 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078394.D

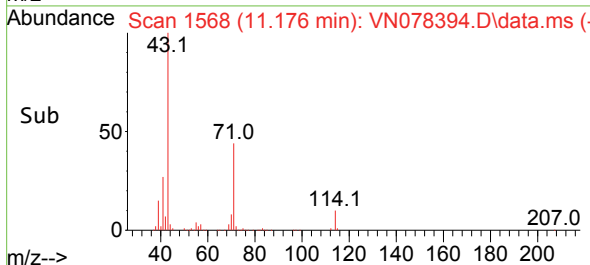
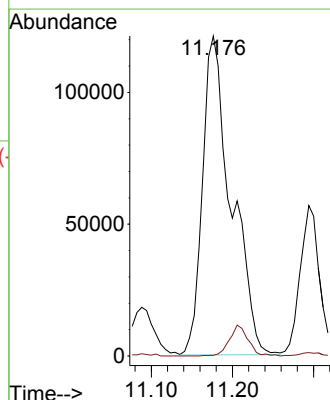
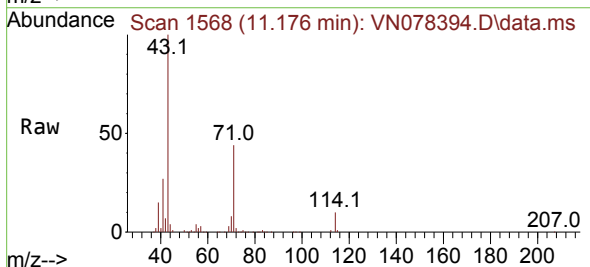
Acq: 24 Jun 2023 15:01

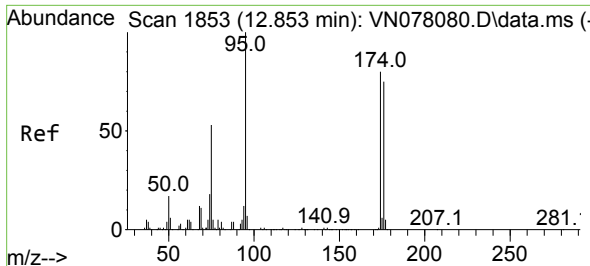
Tgt Ion: 43 Resp: 298572

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

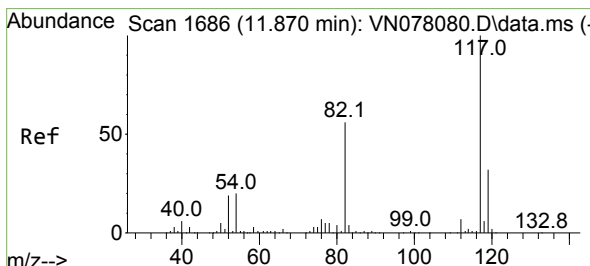
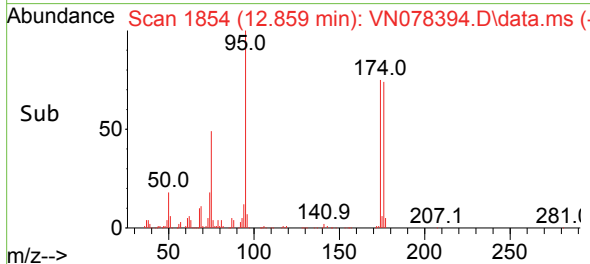
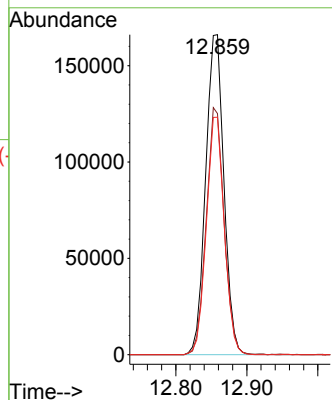
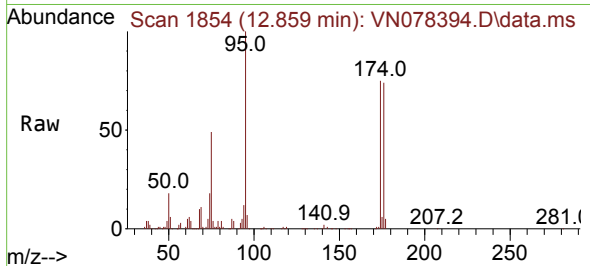




#62
4-Bromofluorobenzene
Concen: 48.372 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

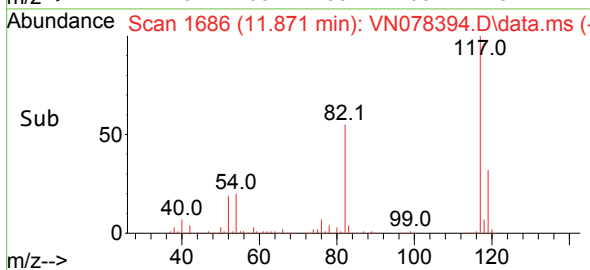
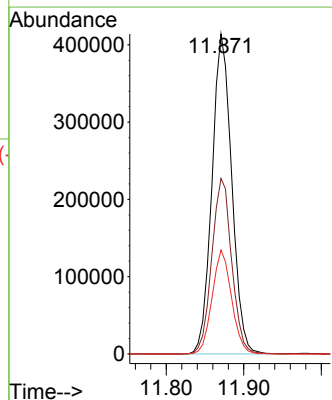
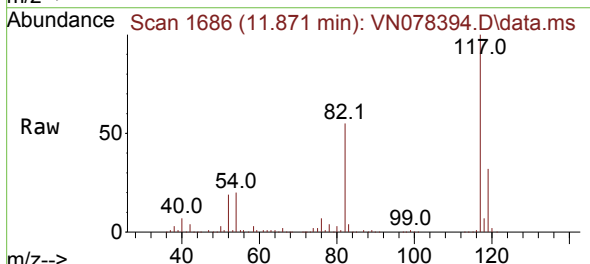
Instrument :
MSVOA_N
ClientSampleId :
SF-10

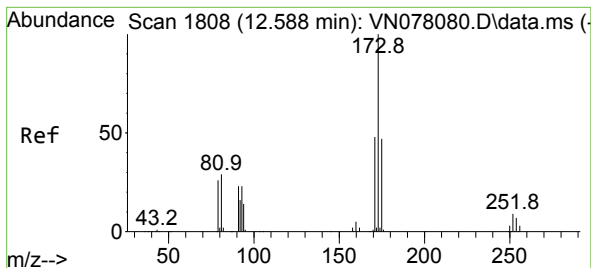
Tgt Ion: 95 Resp: 297174
Ion Ratio Lower Upper
95 100
174 75.6 0.0 143.8
176 72.9 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078394.D
Acq: 24 Jun 2023 15:01

Tgt Ion: 117 Resp: 733366
Ion Ratio Lower Upper
117 100
82 54.8 44.0 66.0
119 32.4 25.6 38.4





#71

Bromoform

Concen: 0.723 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

Instrument :

MSVOA_N

ClientSampleId :

SF-10

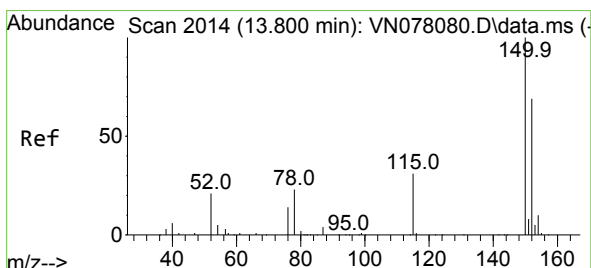
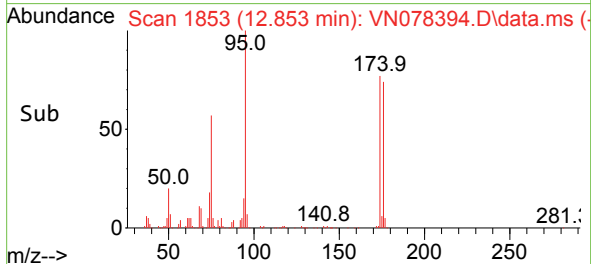
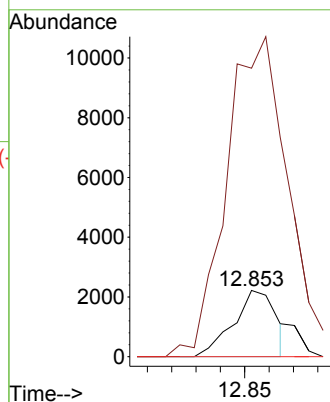
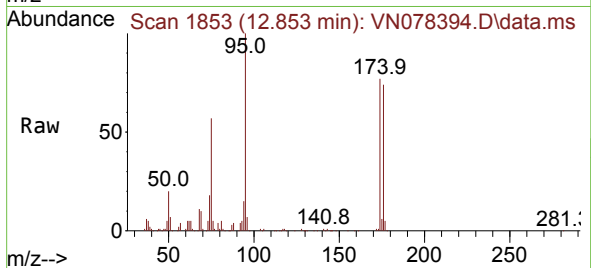
Tgt Ion:173 Resp: 2695

Ion Ratio Lower Upper

173 100

175 593.9 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: VN078394.D

Acq: 24 Jun 2023 15:01

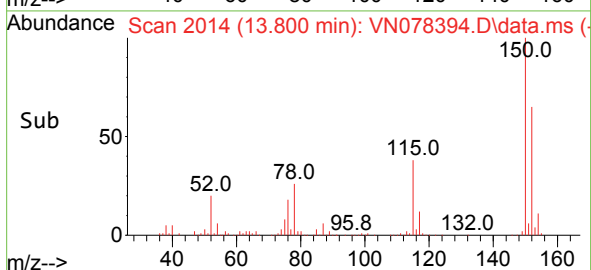
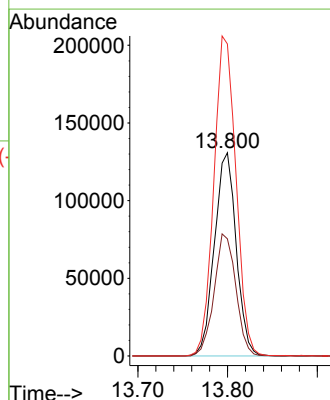
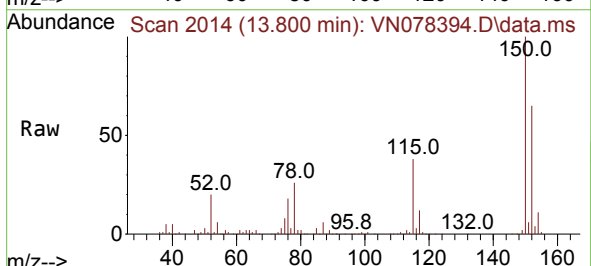
Tgt Ion:152 Resp: 220548

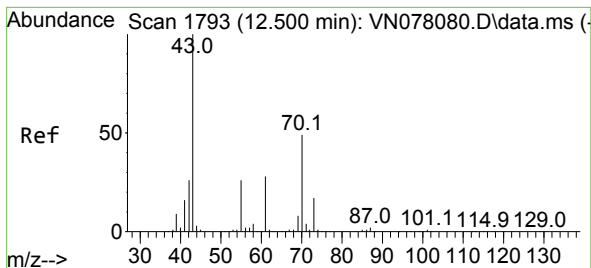
Ion Ratio Lower Upper

152 100

115 59.8 32.3 96.8

150 160.1 0.0 355.8





#74

N-amy1 acetate

Concen: 0.403 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VN078394.D

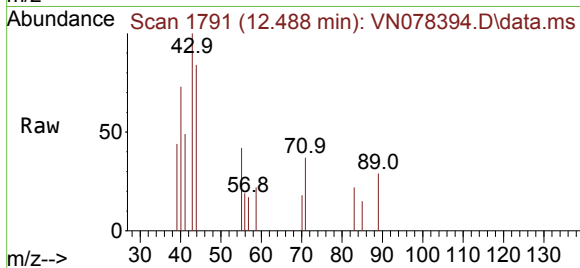
Acq: 24 Jun 2023 15:01

Instrument :

MSVOA_N

ClientSampleId :

SF-10



Tgt Ion: 43 Resp: 2771

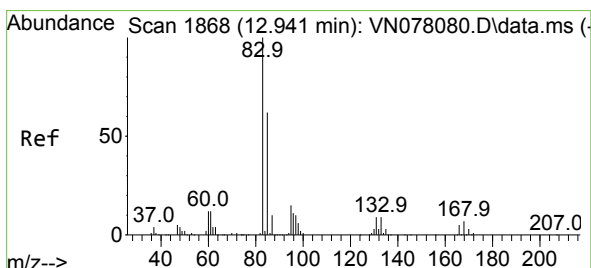
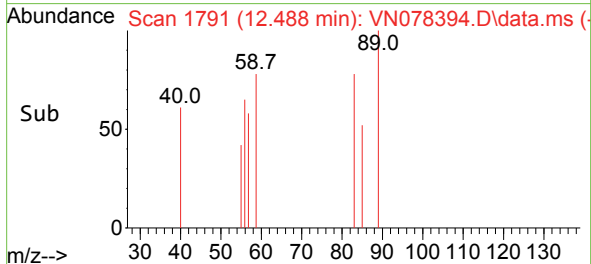
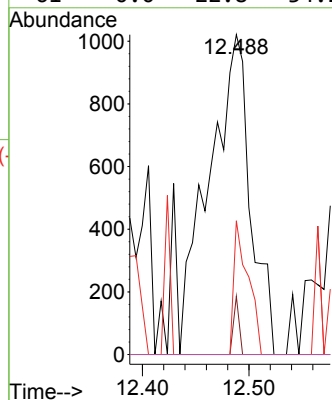
Ion Ratio Lower Upper

43 100

70 2.4 43.4 65.2#

55 14.5 21.4 32.0#

61 0.0 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.959 min Scan# 1871

Delta R.T. 0.018 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

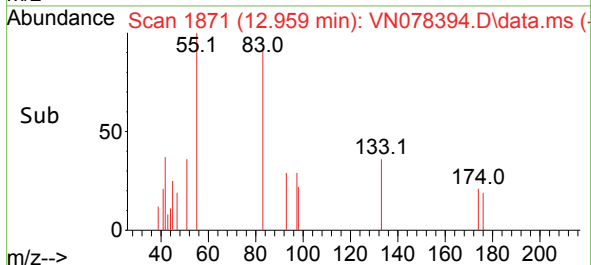
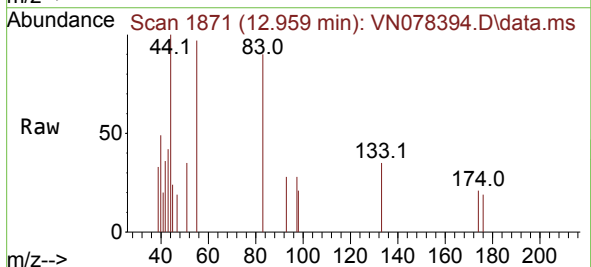
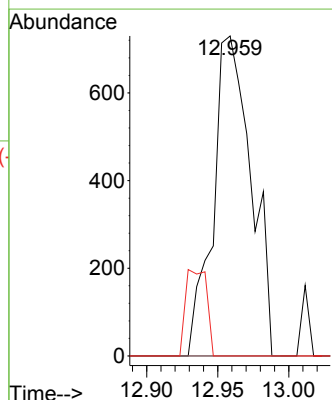
Tgt Ion: 83 Resp: 1363

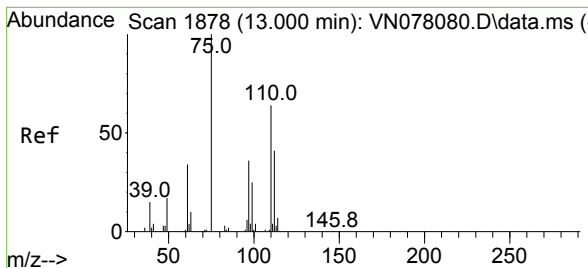
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 30.169 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

Instrument :

MSVOA_N

ClientSampleId :

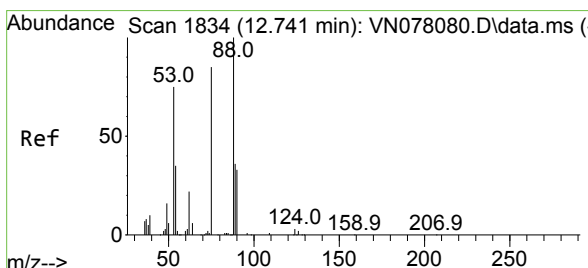
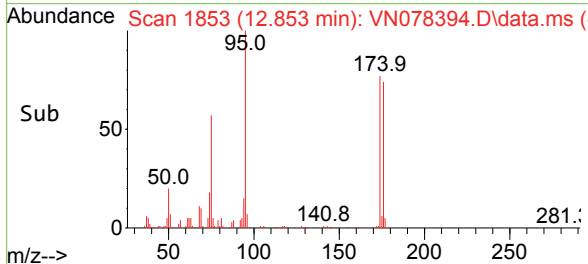
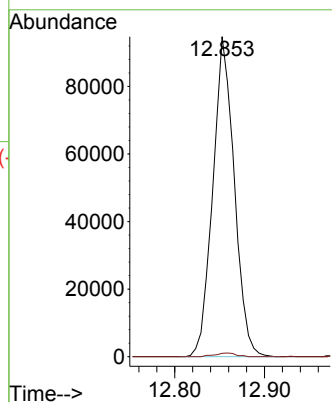
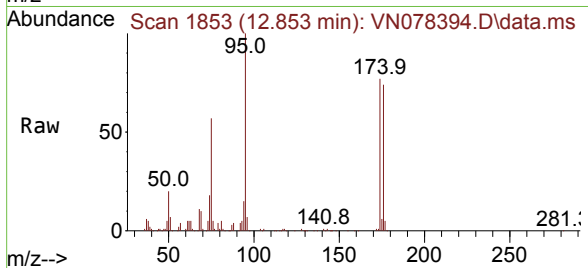
SF-10

Tgt Ion: 75 Resp: 157296

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 92.689 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078394.D

Acq: 24 Jun 2023 15:01

Tgt Ion: 75 Resp: 157296

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

