

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078338.D
 Acq On : 21 Jun 2023 21:35
 Operator : JC\MD
 Sample : 03357-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

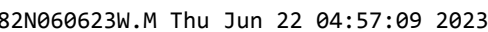
Quant Time: Jun 22 04:56:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	457126	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	867388	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	792458	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	265348	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	325875	53.467	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.940%			
35) Dibromofluoromethane	8.171	113	297905	54.319	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.640%			
50) Toluene-d8	10.571	98	1034643	48.936	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.880%			
62) 4-Bromofluorobenzene	12.853	95	331021	50.362	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.720%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1019	Below Cal	#	76
11) Tert butyl alcohol	5.524	59	1256	1.492	ug/l #	72
16) Acetone	4.442	43	175907	100.270	ug/l	91
18) Methyl Acetate	5.047	43	16881	2.090	ug/l	96
20) Methylene Chloride	5.295	84	13186	2.275	ug/l #	87
25) 2-Butanone	7.494	43	46480	17.229	ug/l #	79
29) Tetrahydrofuran	7.865	42	1136	0.630	ug/l #	49
31) Cyclohexane	8.230	56	10357	1.325	ug/l #	24
36) 1,1-Dichloropropene	8.230	75	38225	4.859	ug/l #	50
37) Ethyl Acetate	7.571	43	44050	7.168	ug/l #	91
38) Carbon Tetrachloride	8.236	117	50310	6.057	ug/l #	15
43) Isopropyl Acetate	8.694	43	431114	36.681	ug/l #	69
48) Methyl methacrylate	9.671	41	8141	1.651	ug/l #	27
49) 1,4-Dioxane	9.659	88	109	1.051	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	303837	49.093	ug/l	91
52) Toluene	10.641	92	4770	0.322	ug/l	89
54) cis-1,3-Dichloropropene	10.365	75	85639	9.305	ug/l #	69
57) 1,3-Dichloropropane	11.206	76	5886	0.622	ug/l #	42
59) 2-Hexanone	11.176	43	296665	68.843	ug/l #	19
67) Ethyl Benzene	11.965	91	9542	0.326	ug/l #	74
68) m/p-Xylenes	12.071	106	13774	1.234	ug/l	99
69) o-Xylene	12.400	106	9100	0.830	ug/l	94
71) Bromoform	12.853	173	2962	0.735	ug/l #	1
74) N-amyl acetate	12.488	43	4020	0.487	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.841	83	355	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	180492	28.773	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.182	105	5890	0.290	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.853	75	180492	88.400	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.488	105	19204	0.975	ug/l	98
95) Naphthalene	15.647	128	3063	0.265	ug/l #	92

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

Quant Time: Jun 22 04:56:59 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. 0.001 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

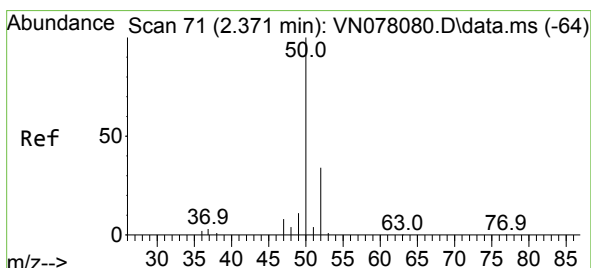
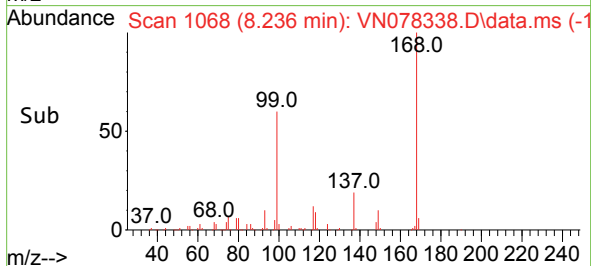
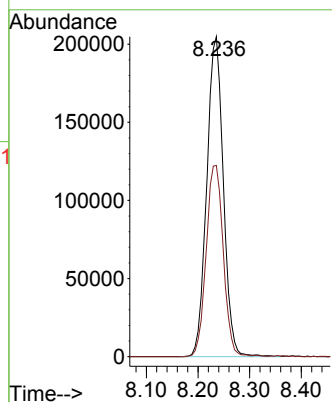
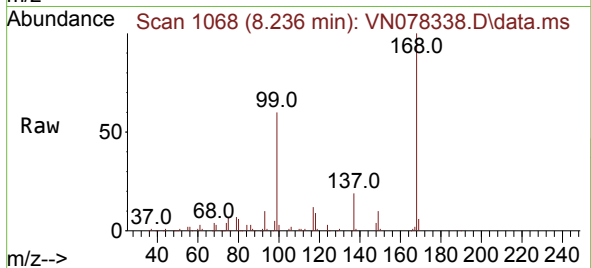
ClientSampleId :

Tgt Ion:168 Resp: 457126

Ion Ratio Lower Upper

168 100

99 59.8 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078338.D

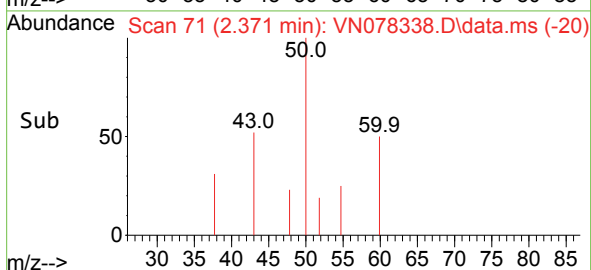
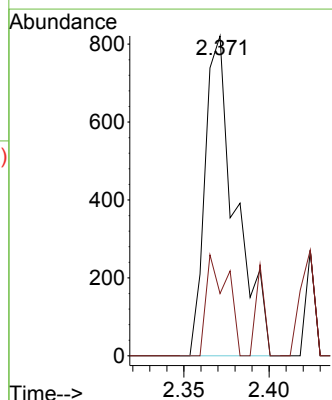
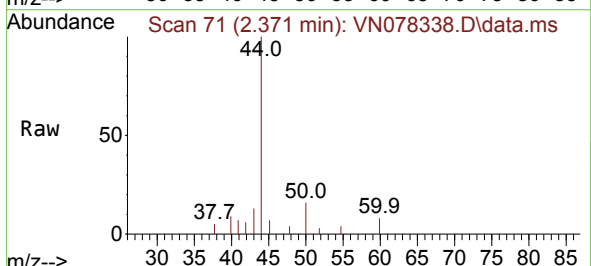
Acq: 21 Jun 2023 21:35

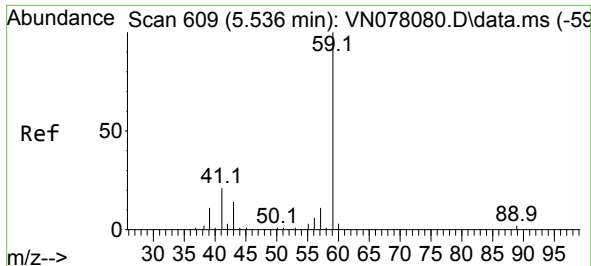
Tgt Ion: 50 Resp: 1019

Ion Ratio Lower Upper

50 100

52 19.5 26.5 39.7#

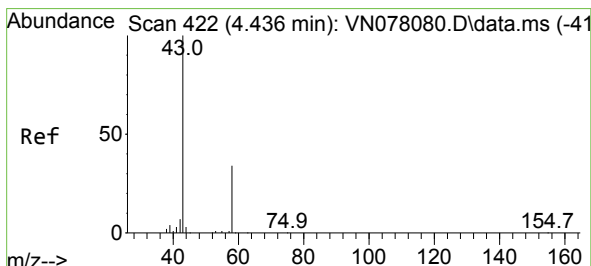
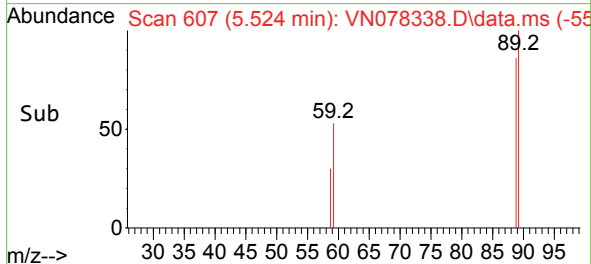
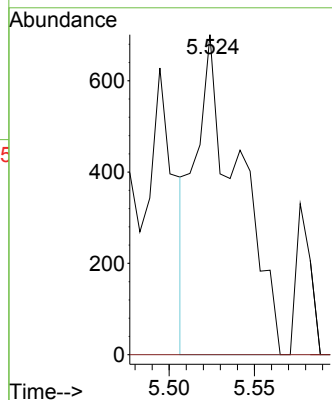
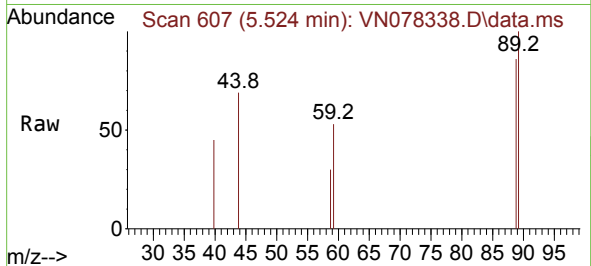




#11
Tert butyl alcohol
Concen: 1.492 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

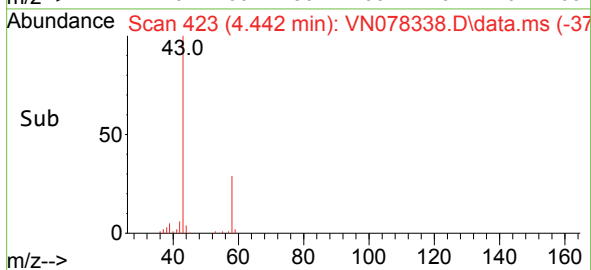
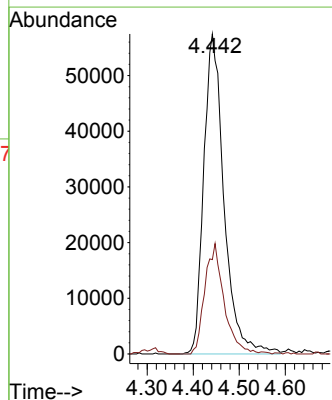
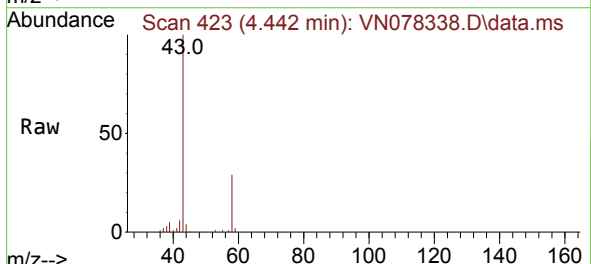
Instrument :
MSVOA_N
ClientSampleId :

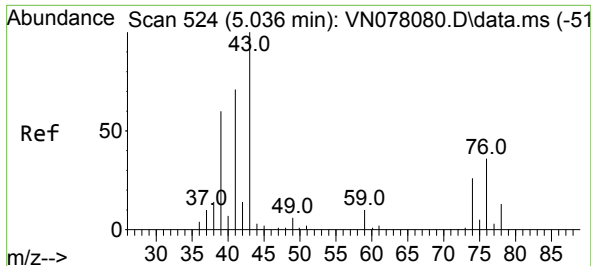
Tgt Ion: 59 Resp: 1256
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 100.270 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.006 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 43 Resp: 175907
Ion Ratio Lower Upper
43 100
58 29.5 28.0 42.0

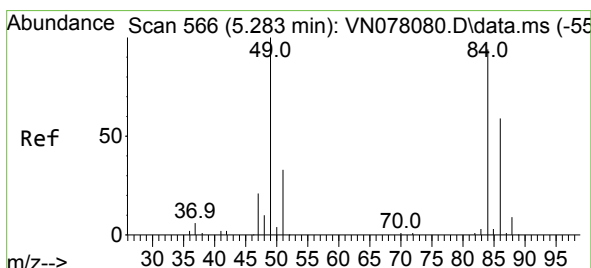
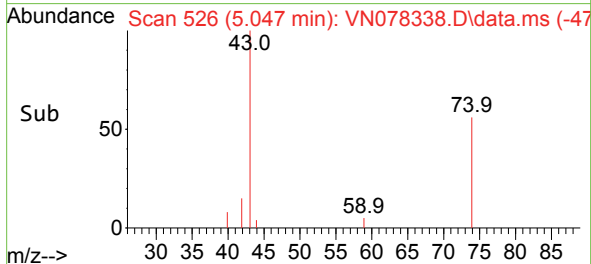
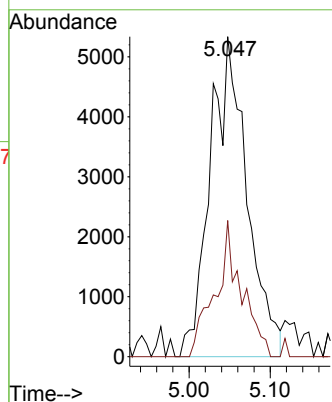
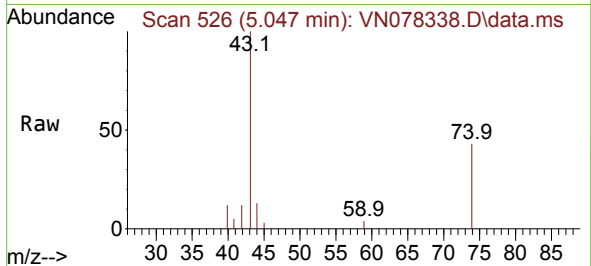




#18
Methyl Acetate
Concen: 2.090 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

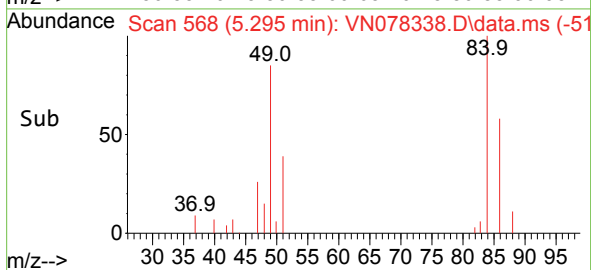
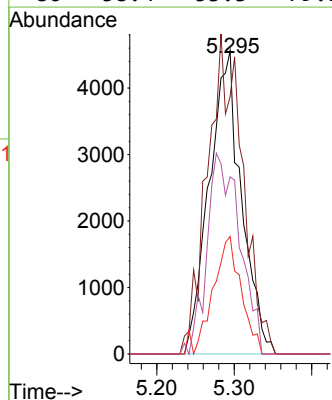
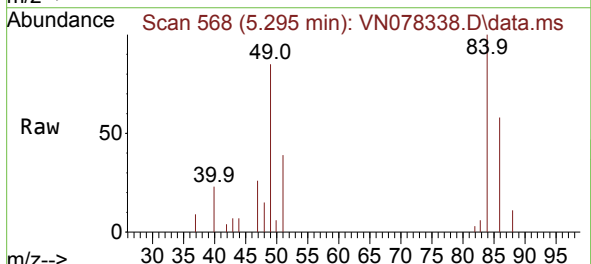
Instrument :
MSVOA_N
ClientSampleId :

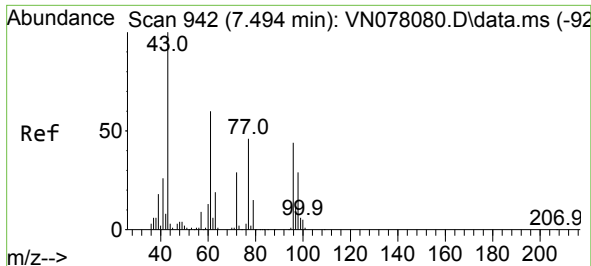
Tgt Ion: 43 Resp: 16881
Ion Ratio Lower Upper
43 100
74 30.5 26.2 39.4



#20
Methylene Chloride
Concen: 2.275 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.012 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 84 Resp: 13186
Ion Ratio Lower Upper
84 100
49 84.8 79.7 119.5
51 38.7 25.2 37.8#
86 58.4 53.3 79.9

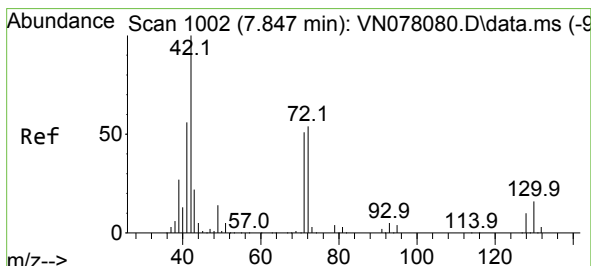
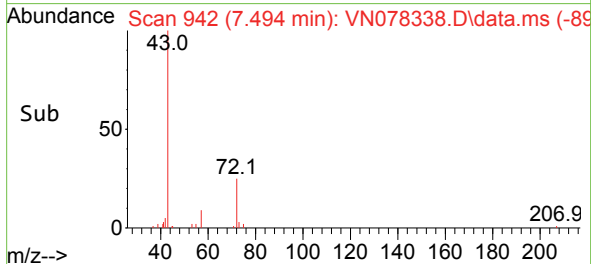
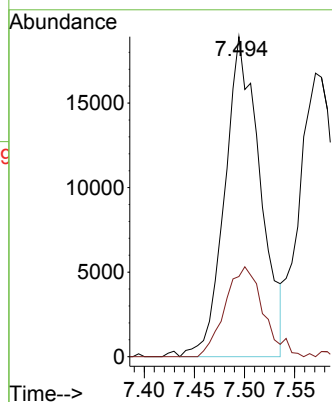
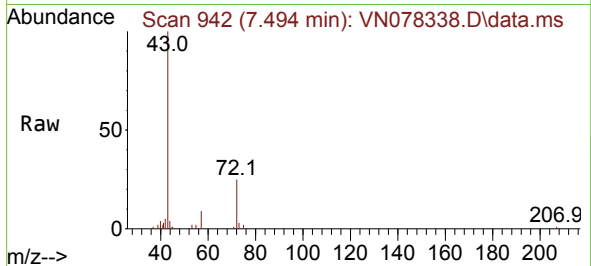




#25
2-Butanone
Concen: 17.229 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

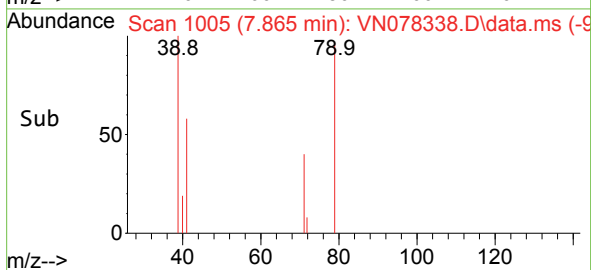
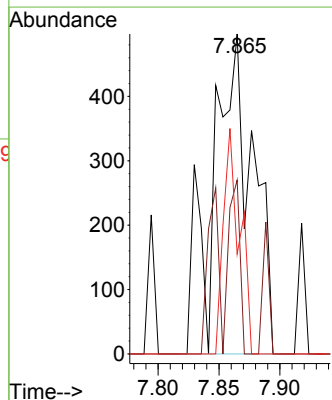
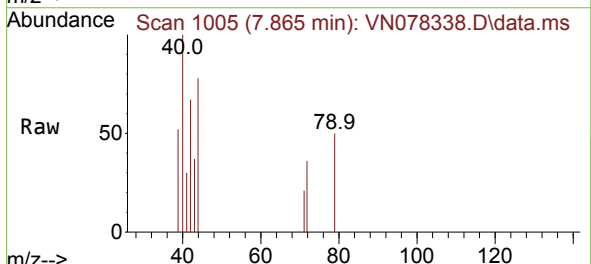
Instrument :
MSVOA_N
ClientSampleId :

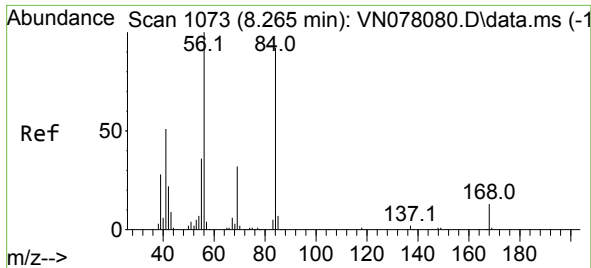
Tgt Ion: 43 Resp: 46480
Ion Ratio Lower Upper
43 100
72 25.1 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.630 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 42 Resp: 1136
Ion Ratio Lower Upper
42 100
72 15.4 49.8 74.6#
71 28.7 47.4 71.2#

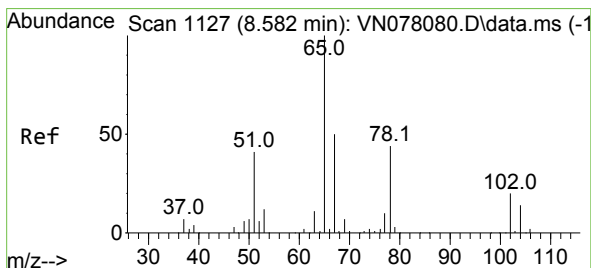
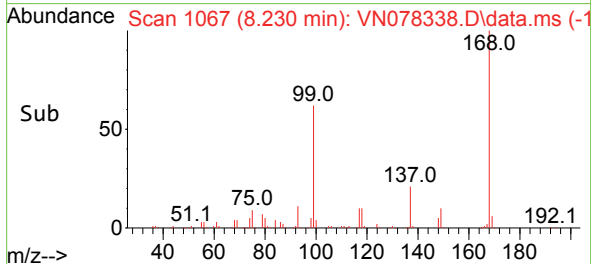
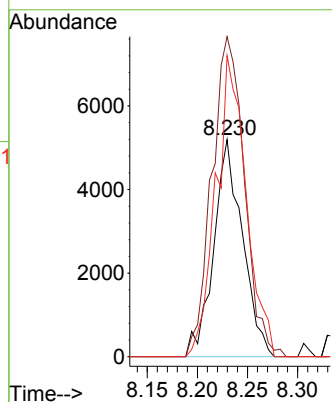
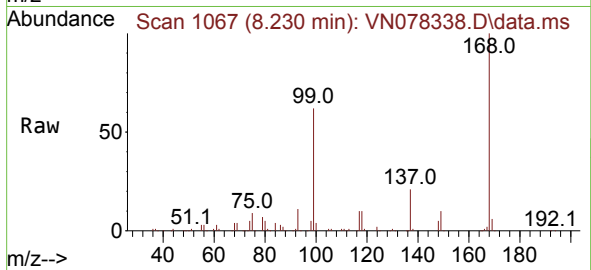




#31
Cyclohexane
Concen: 1.325 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

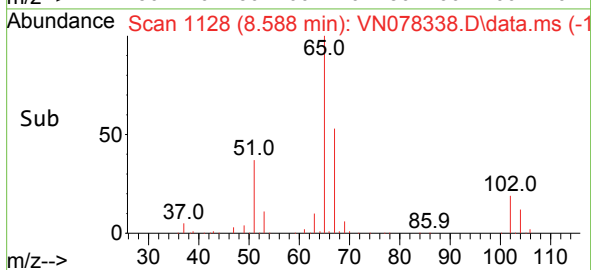
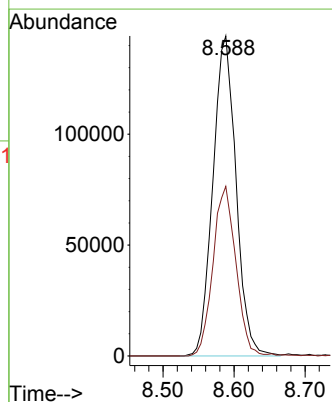
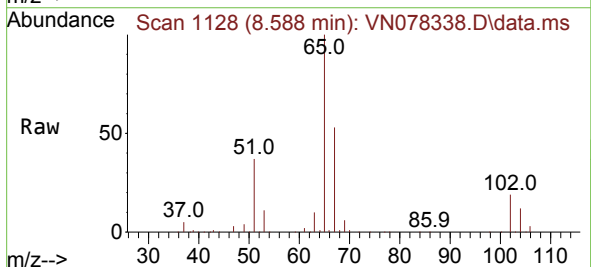
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MSVOA_N
ClientSampleId :

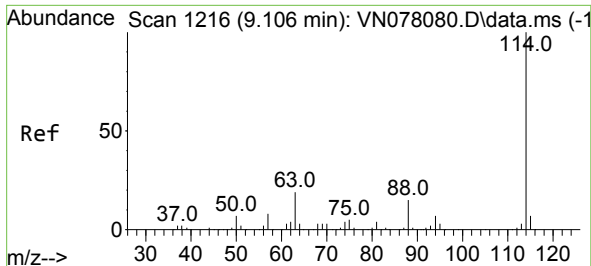
Tgt Ion: 56 Resp: 10357
Ion Ratio Lower Upper
56 100
69 147.4 26.8 40.2#
84 138.6 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 53.467 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 65 Resp: 325875
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

ClientSampleId :

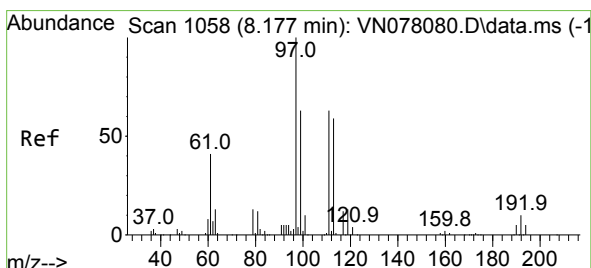
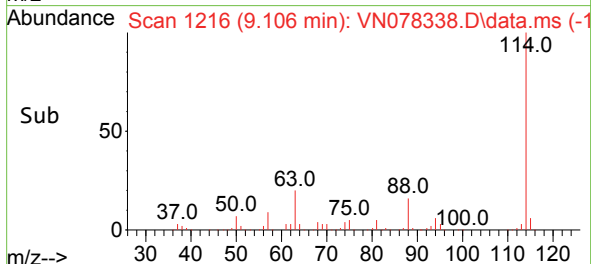
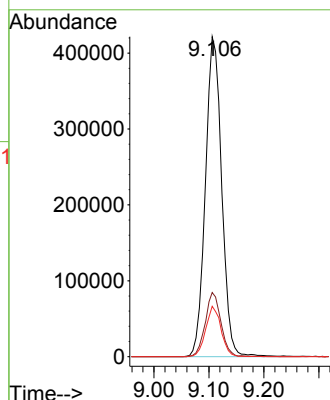
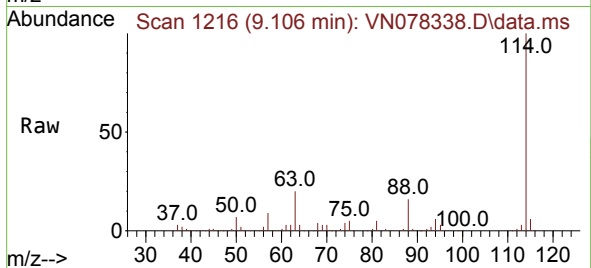
Tgt Ion:114 Resp: 867388

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 15.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.319 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

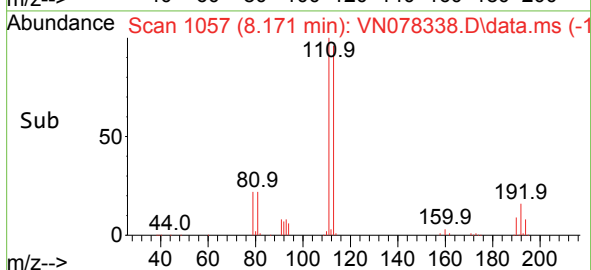
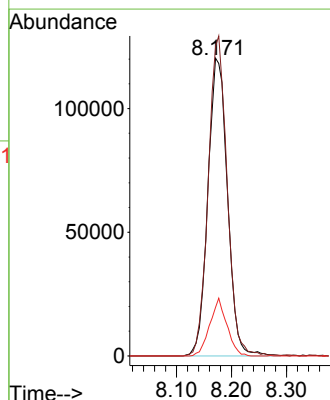
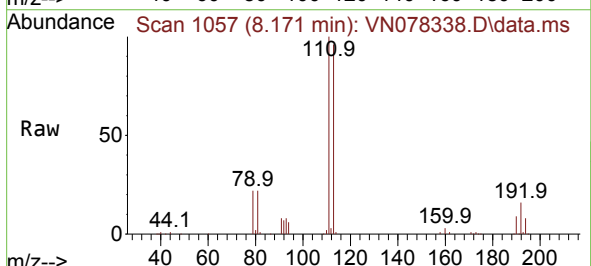
Tgt Ion:113 Resp: 297905

Ion Ratio Lower Upper

113 100

111 103.6 82.6 123.8

192 17.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.859 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

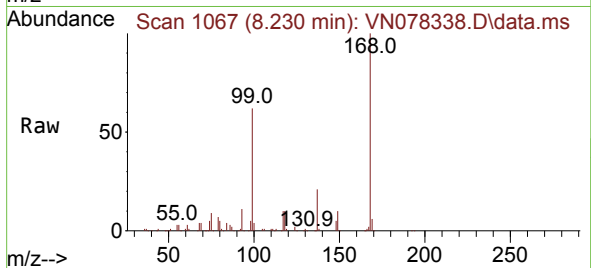
Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

ClientSampleId :



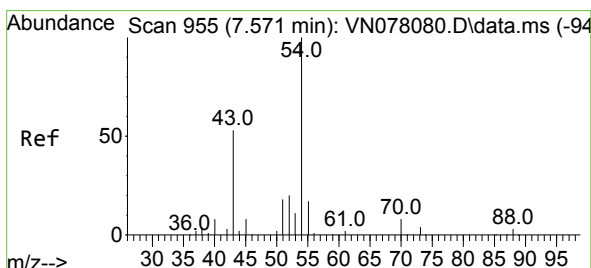
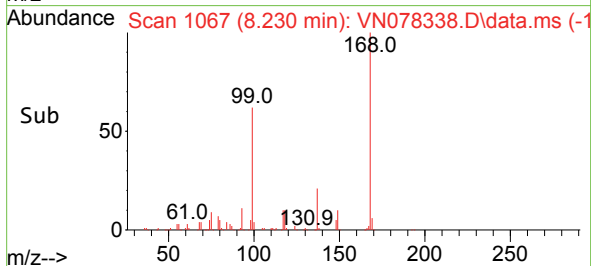
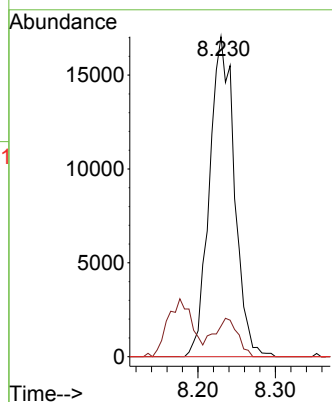
Tgt Ion: 75 Resp: 38225

Ion Ratio Lower Upper

75 100

110 11.6 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 7.168 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.000 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

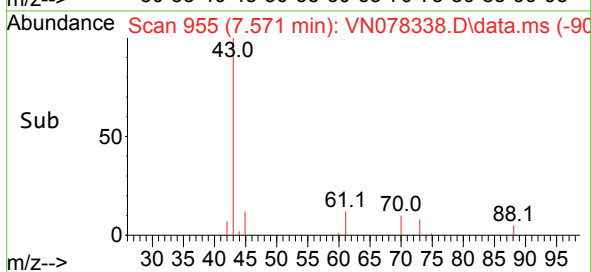
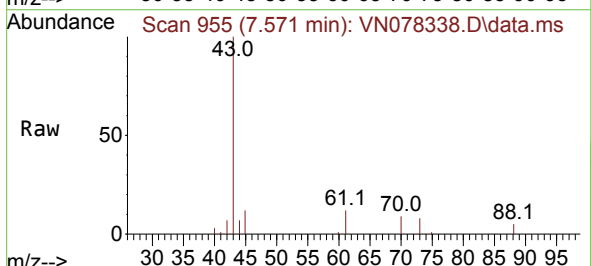
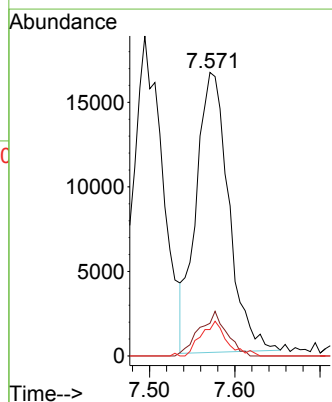
Tgt Ion: 43 Resp: 44050

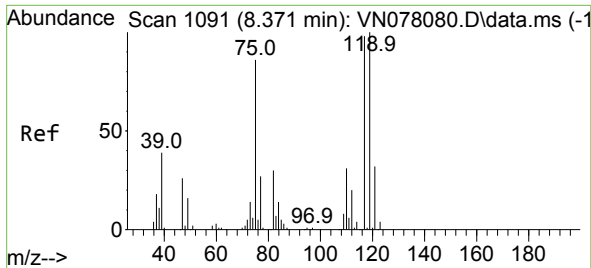
Ion Ratio Lower Upper

43 100

61 13.3 13.2 19.8

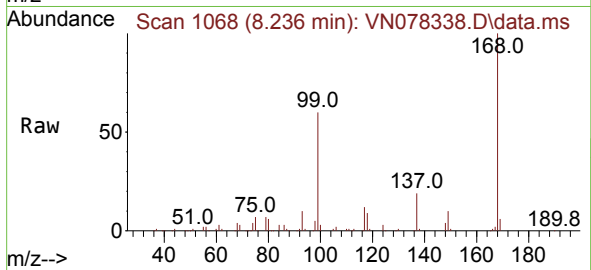
70 9.8 11.3 16.9#



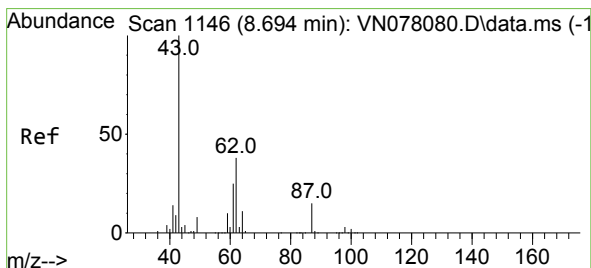
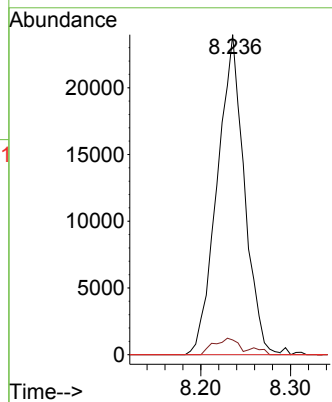
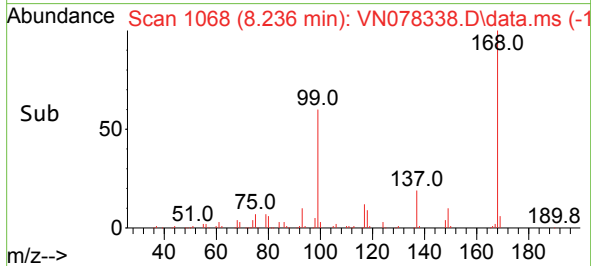


#38
Carbon Tetrachloride
Concen: 6.057 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Instrument :
MSVOA_N
ClientSampleId :

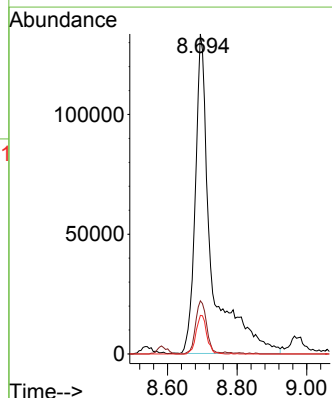
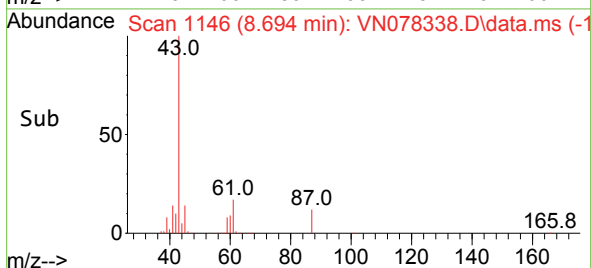
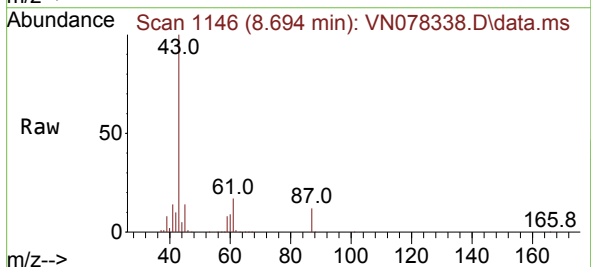


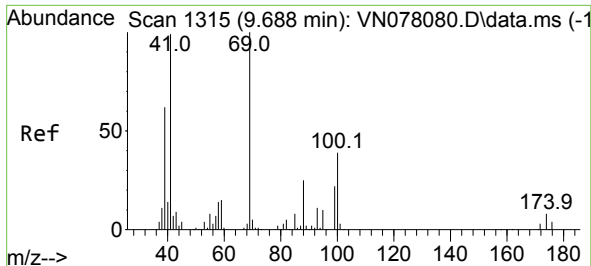
Tgt Ion:117 Resp: 50310
Ion Ratio Lower Upper
117 100
119 4.6 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 36.681 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 43 Resp: 431114
Ion Ratio Lower Upper
43 100
61 11.4 24.7 37.1#
87 8.0 14.6 21.8#

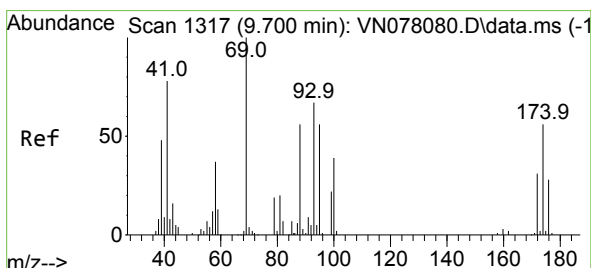
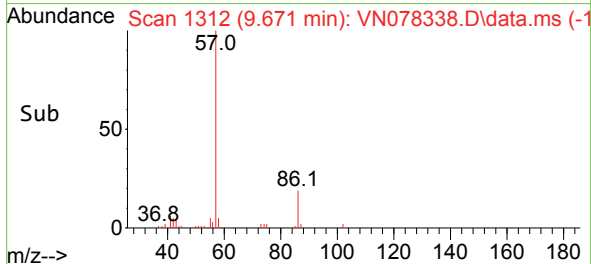
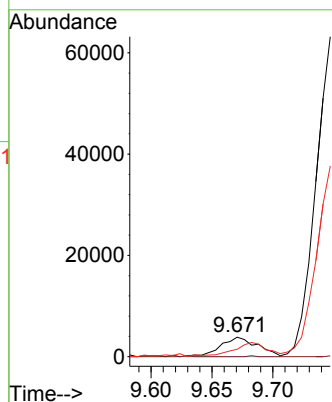
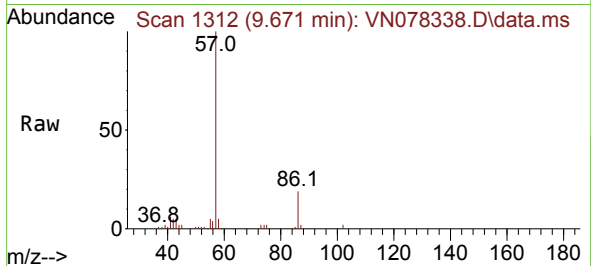




#48
Methyl methacrylate
Concen: 1.651 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

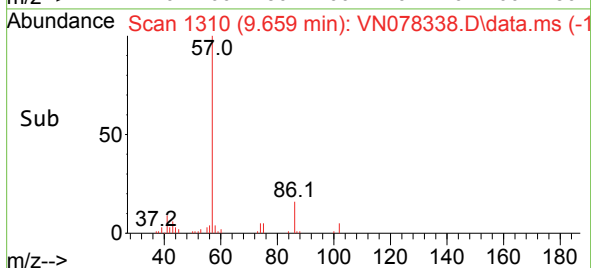
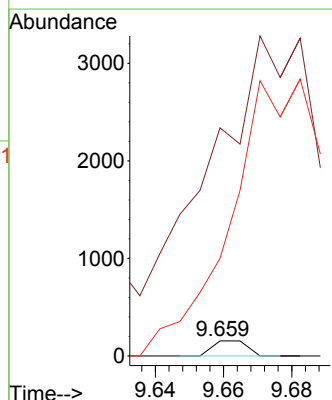
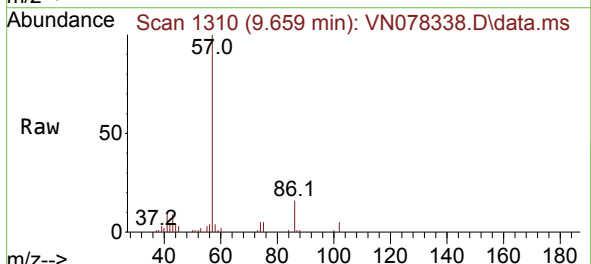
Instrument :
MSVOA_N
ClientSampleId :

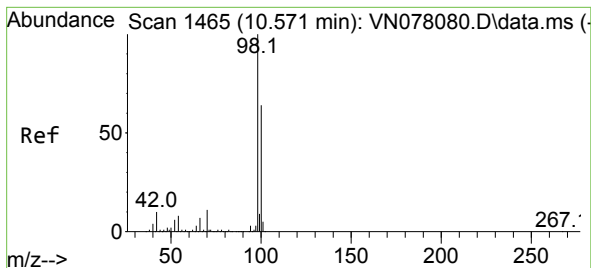
Tgt Ion: 41 Resp: 8141
Ion Ratio Lower Upper
41 100
69 0.9 90.4 135.6#
39 51.9 54.6 81.8#



#49
1,4-Dioxane
Concen: 1.051 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.041 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#





#50

Toluene-d8

Concen: 48.936 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

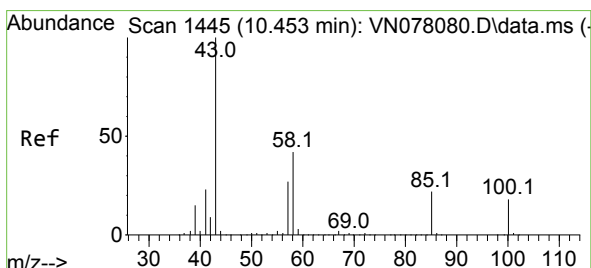
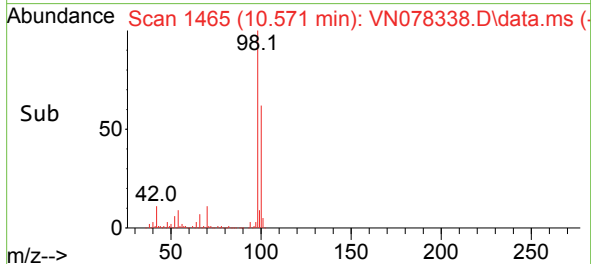
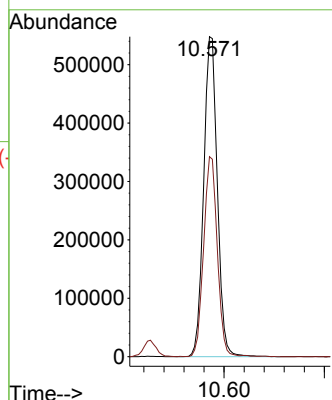
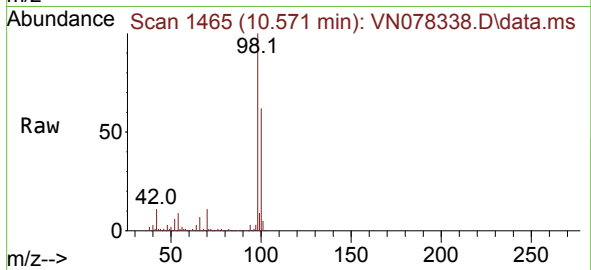
ClientSampleId :

Tgt Ion: 98 Resp: 1034643

Ion Ratio Lower Upper

98 100

100 62.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 49.093 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN078338.D

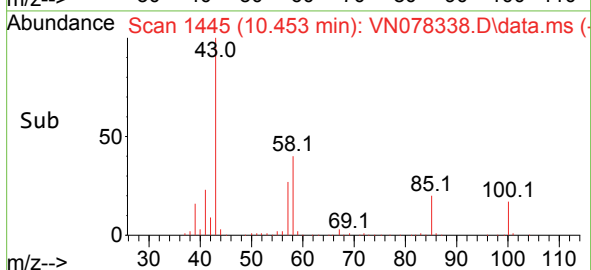
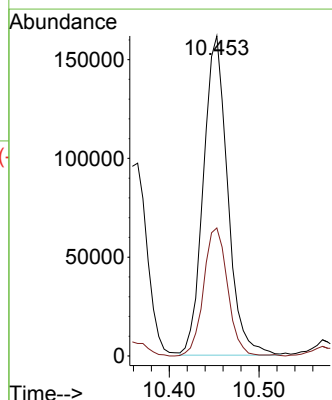
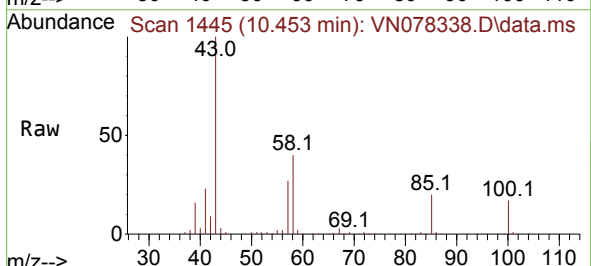
Acq: 21 Jun 2023 21:35

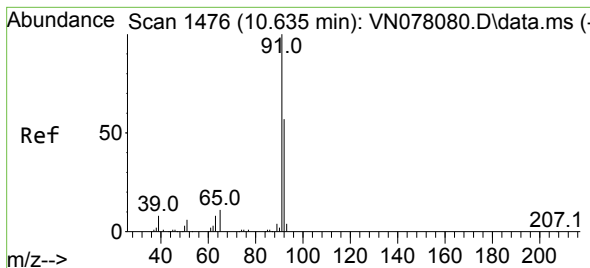
Tgt Ion: 43 Resp: 303837

Ion Ratio Lower Upper

43 100

58 39.6 36.6 54.8





#52

Toluene

Concen: 0.322 ug/l

RT: 10.641 min Scan# 1476

Delta R.T. 0.006 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

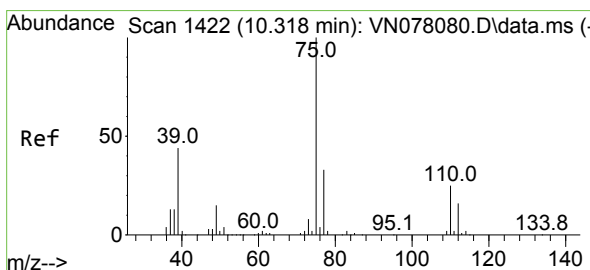
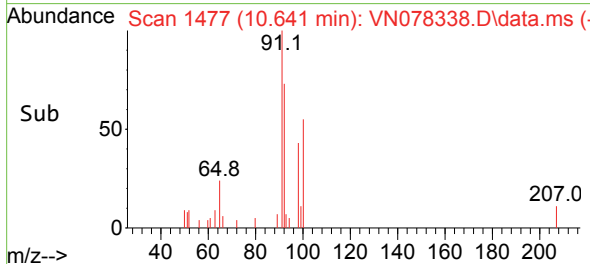
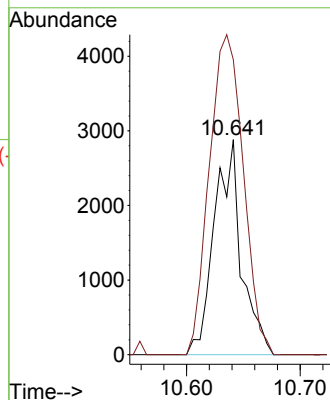
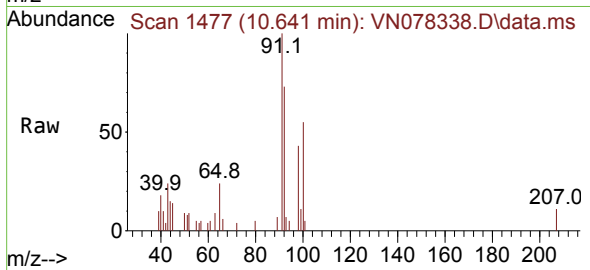
ClientSampleId :

Tgt Ion: 92 Resp: 4770

Ion Ratio Lower Upper

92 100

91 187.4 137.4 206.0



#54

cis-1,3-Dichloropropene

Concen: 9.305 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

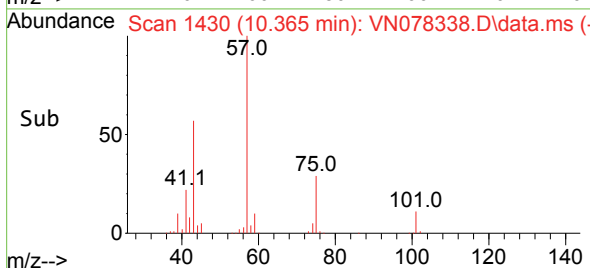
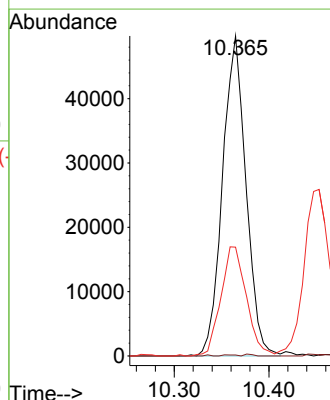
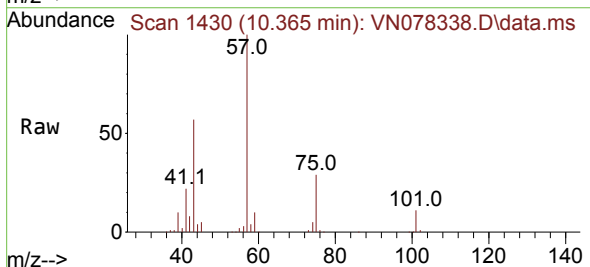
Tgt Ion: 75 Resp: 85639

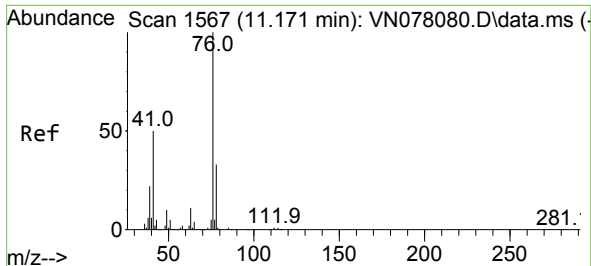
Ion Ratio Lower Upper

75 100

77 0.3 26.1 39.1#

39 33.6 31.6 47.4





#57

1,3-Dichloropropane

Concen: 0.622 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

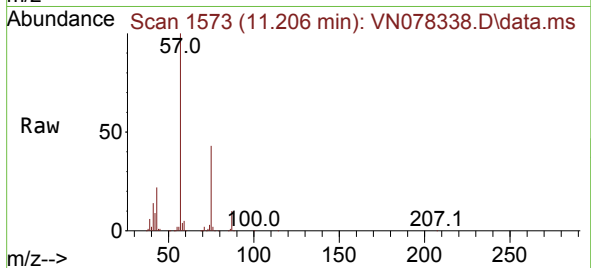
Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

ClientSampleId :

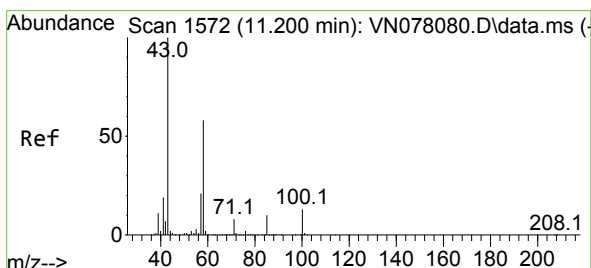
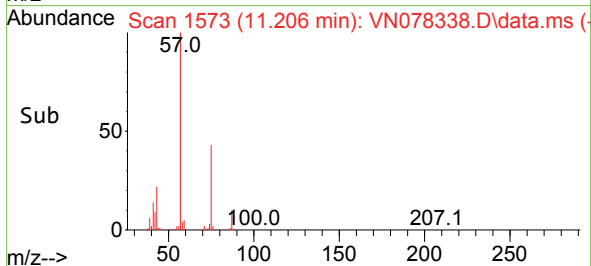
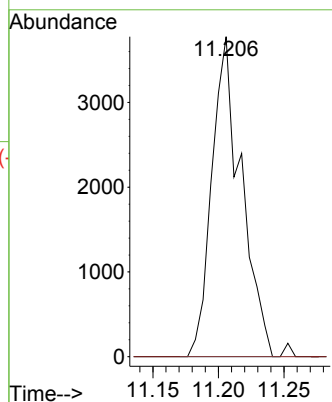


Tgt Ion: 76 Resp: 5886

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 68.843 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078338.D

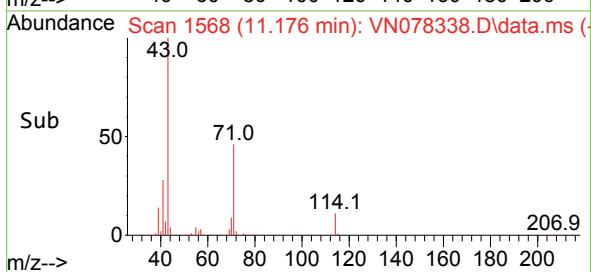
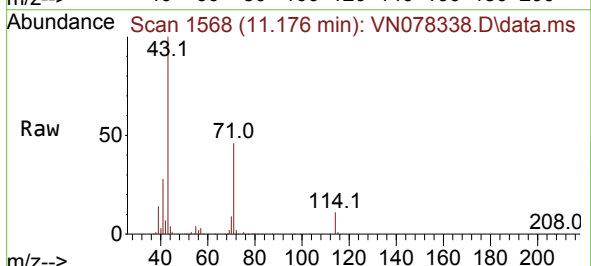
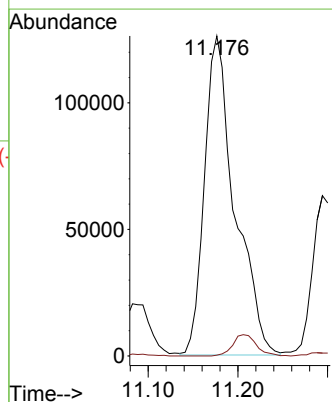
Acq: 21 Jun 2023 21:35

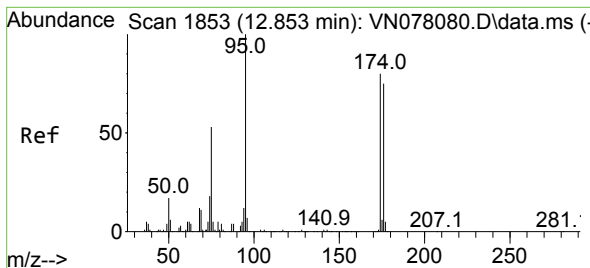
Tgt Ion: 43 Resp: 296665

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

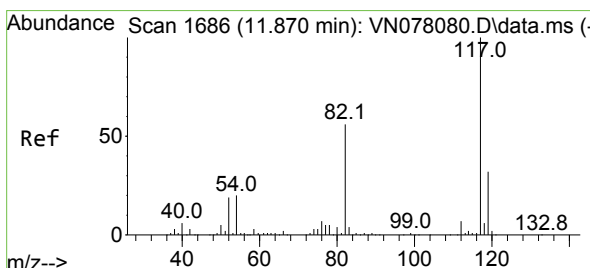
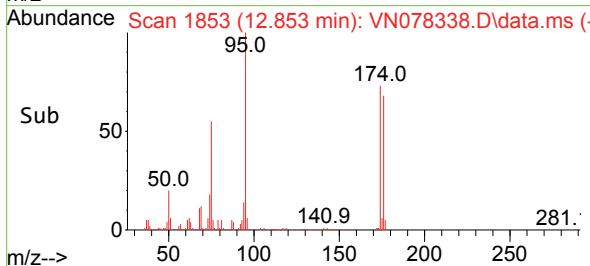
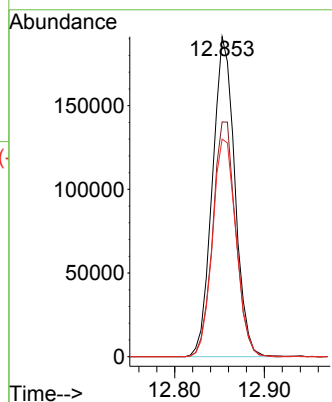
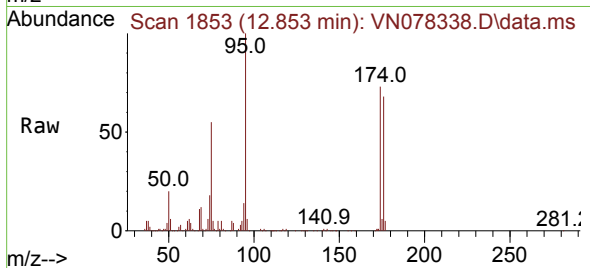




#62
4-Bromofluorobenzene
Concen: 50.362 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

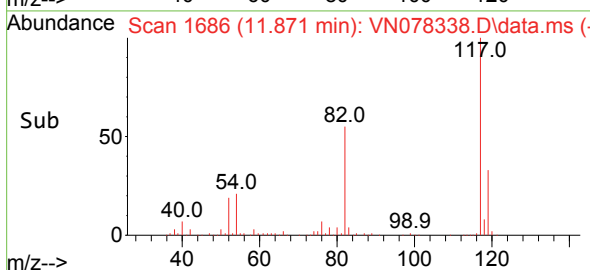
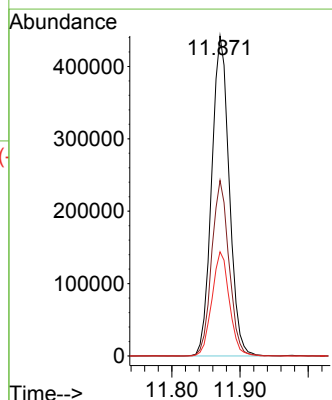
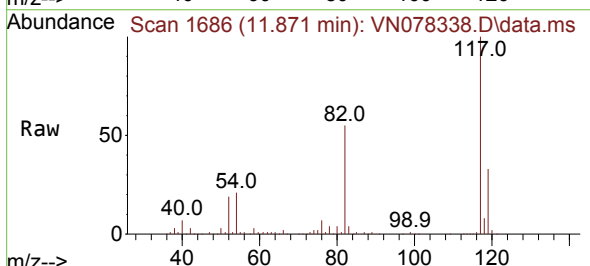
Instrument :
MSVOA_N
ClientSampleId :

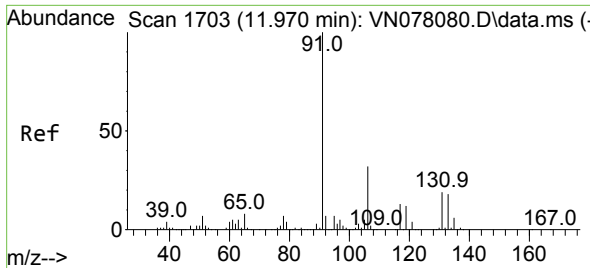
Tgt Ion: 95 Resp: 331021
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 71.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 117 Resp: 792458
Ion Ratio Lower Upper
117 100
82 54.8 44.0 66.0
119 32.6 25.6 38.4

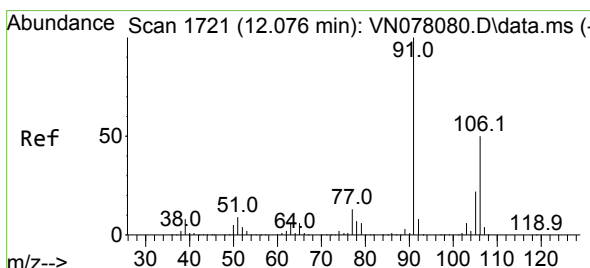
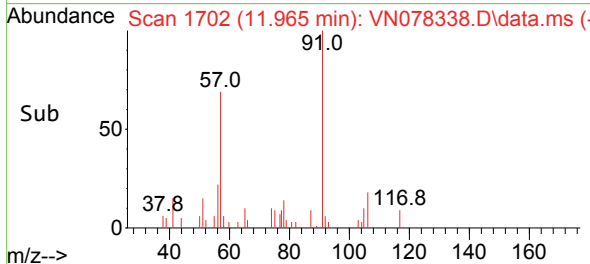
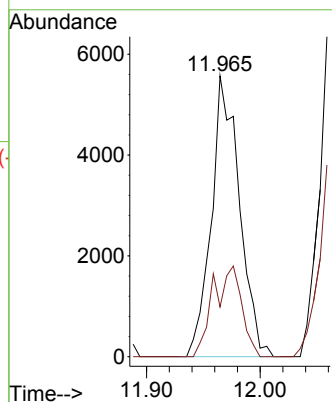
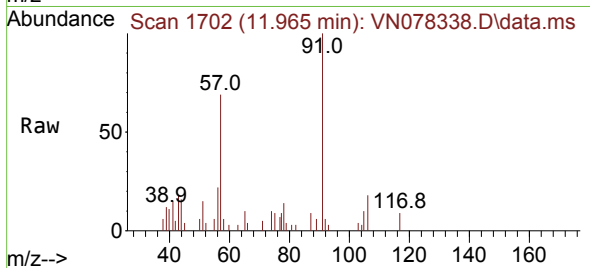




#67
Ethyl Benzene
Concen: 0.326 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.006 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

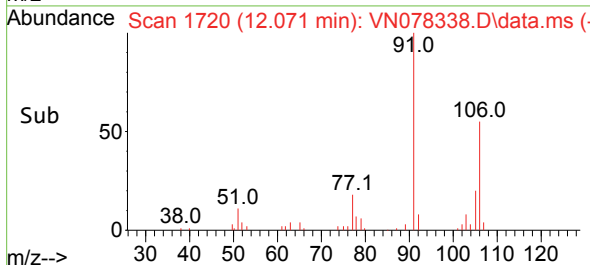
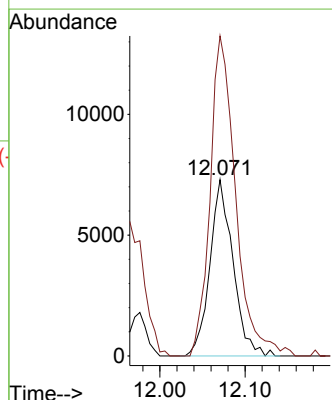
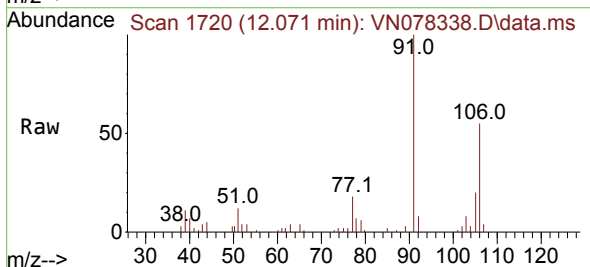
Instrument :
MSVOA_N
ClientSampleId :

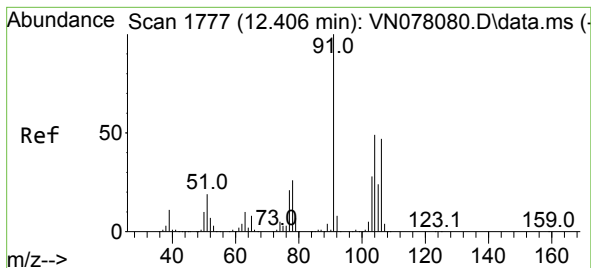
Tgt Ion: 91 Resp: 9542
Ion Ratio Lower Upper
91 100
106 17.7 25.6 38.4#



#68
m/p-Xylenes
Concen: 1.234 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.006 min
Lab File: VN078338.D
Acq: 21 Jun 2023 21:35

Tgt Ion: 106 Resp: 13774
Ion Ratio Lower Upper
106 100
91 200.5 159.6 239.4





#69

o-Xylene

Concen: 0.830 ug/l

RT: 12.400 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

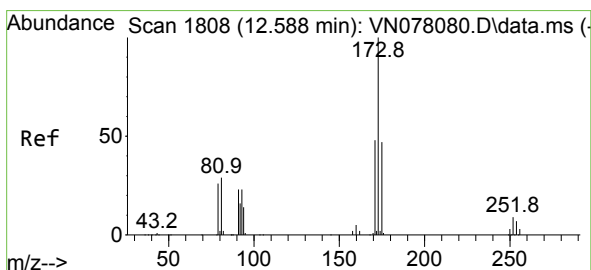
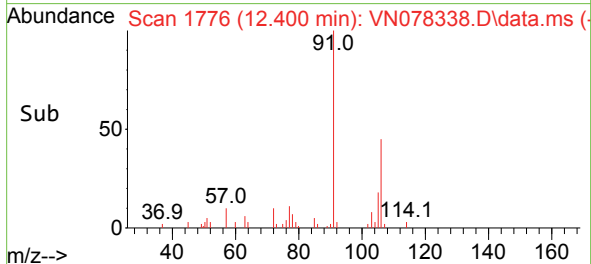
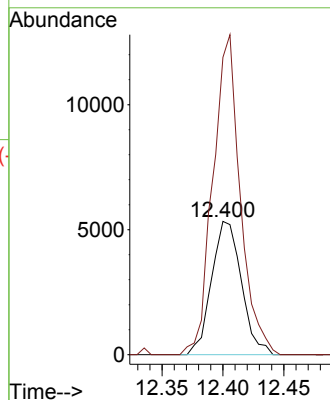
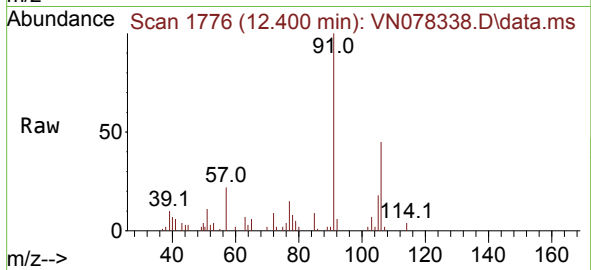
ClientSampleId :

Tgt Ion:106 Resp: 9100

Ion Ratio Lower Upper

106 100

91 220.4 105.2 315.5



#71

Bromoform

Concen: 0.735 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.265 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

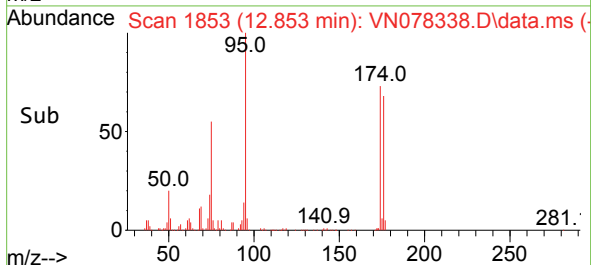
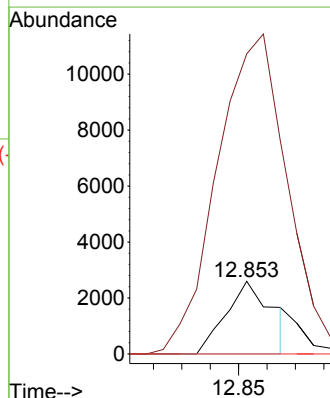
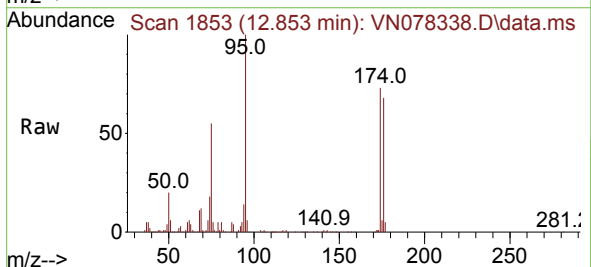
Tgt Ion:173 Resp: 2962

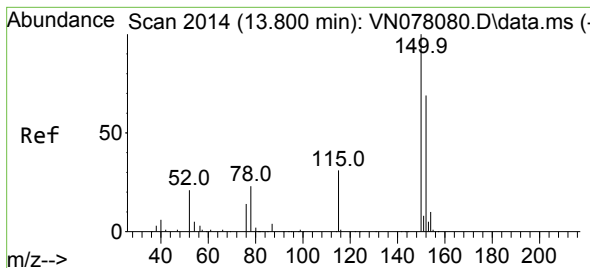
Ion Ratio Lower Upper

173 100

175 577.8 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# 20

Delta R.T. 0.000 min

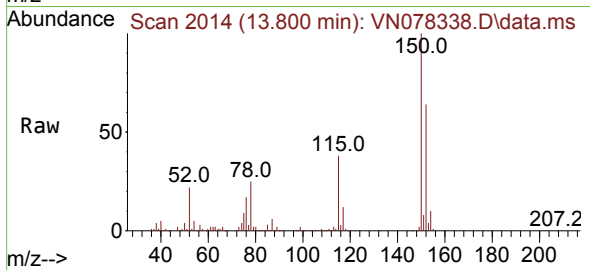
Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

ClientSampleId :



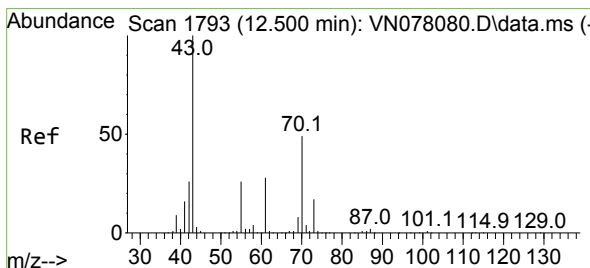
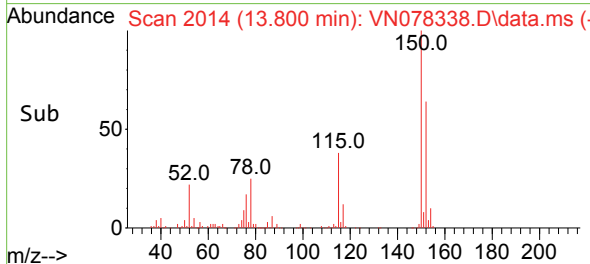
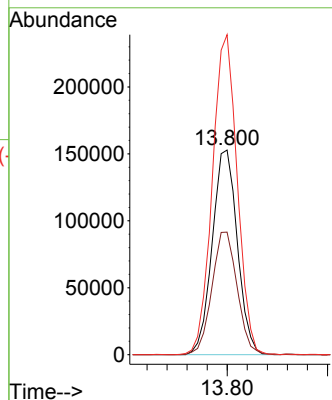
Tgt Ion:152 Resp: 265348

Ion Ratio Lower Upper

152 100

115 60.2 32.3 96.8

150 154.7 0.0 355.8



#74

N-ethyl acetate

Concen: 0.487 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.012 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Tgt Ion: 43 Resp: 4020

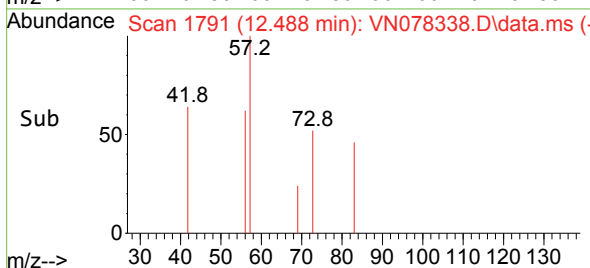
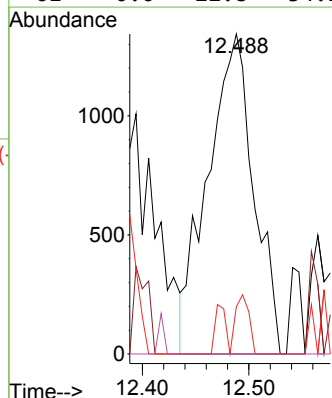
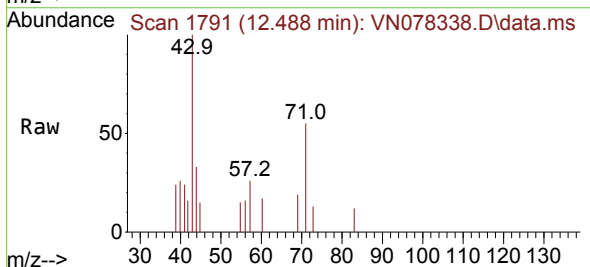
Ion Ratio Lower Upper

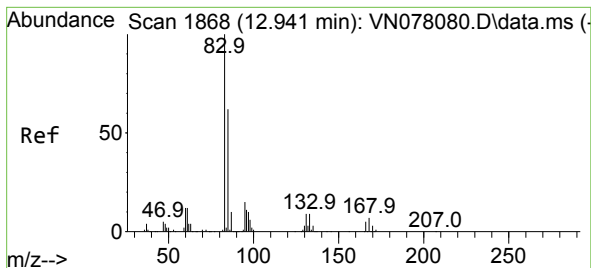
43 100

70 0.0 43.4 65.2#

55 5.5 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.841 min Scan# 1851

Delta R.T. -0.100 min

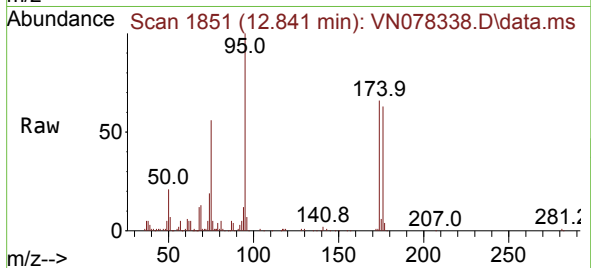
Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

ClientSampleId :



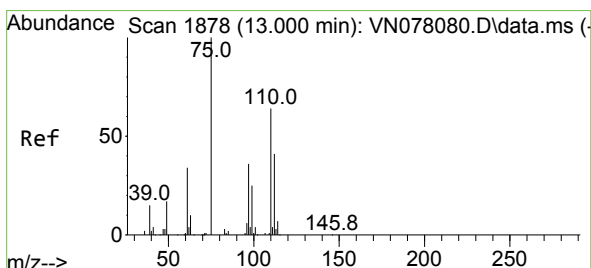
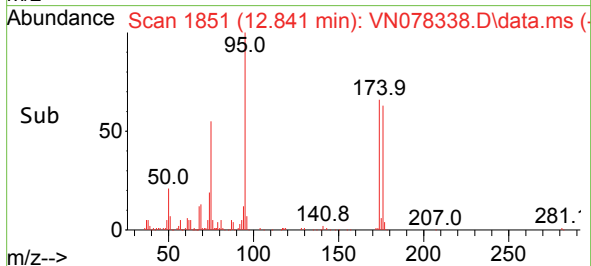
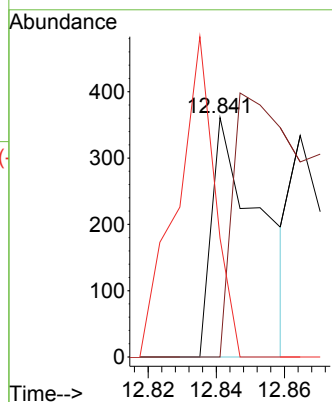
Tgt Ion: 83 Resp: 355

Ion Ratio Lower Upper

83 100

131 171.5 5.0 15.0#

85 105.4 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 28.773 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078338.D

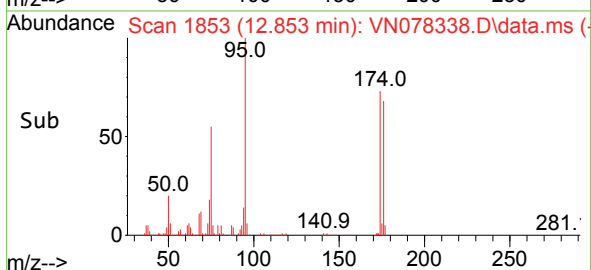
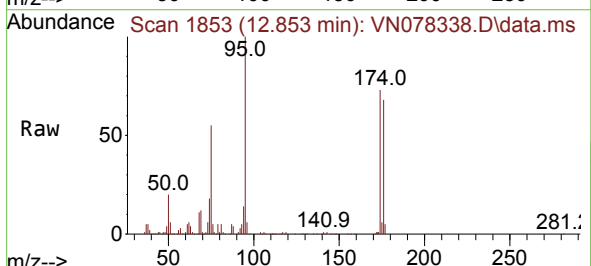
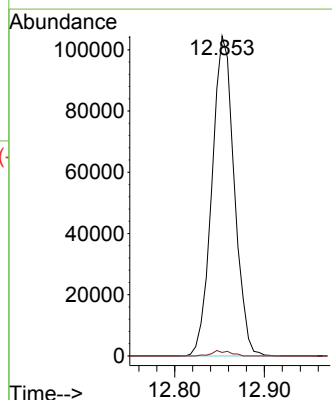
Acq: 21 Jun 2023 21:35

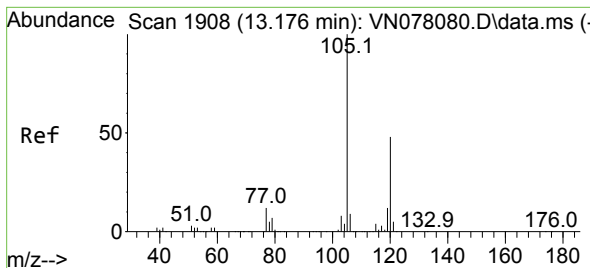
Tgt Ion: 75 Resp: 180492

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.290 ug/l

RT: 13.182 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

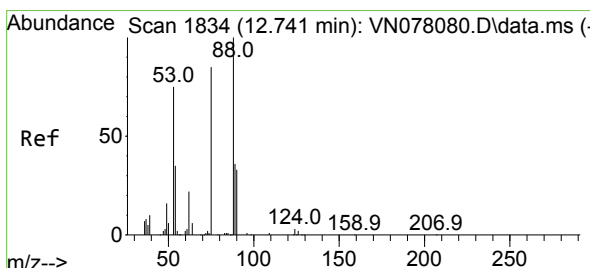
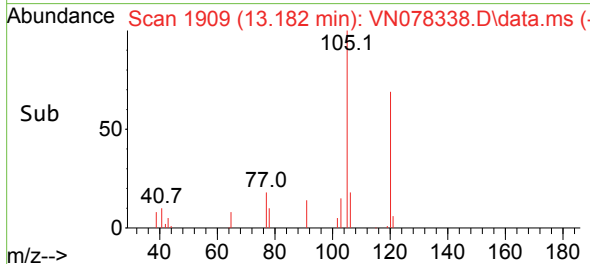
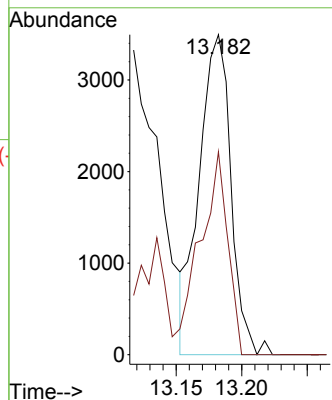
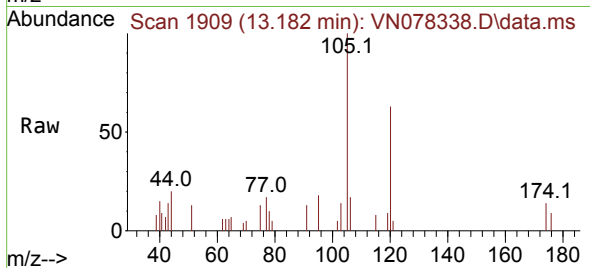
ClientSampleId :

Tgt Ion:105 Resp: 5890

Ion Ratio Lower Upper

105 100

120 55.6 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 88.400 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

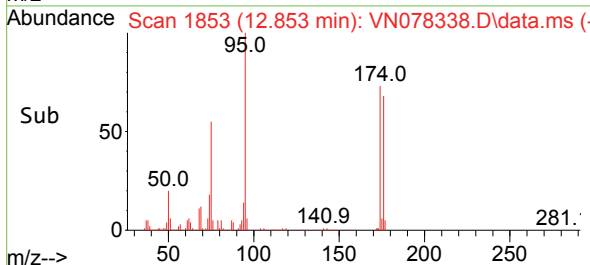
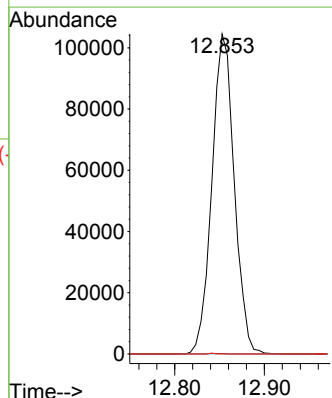
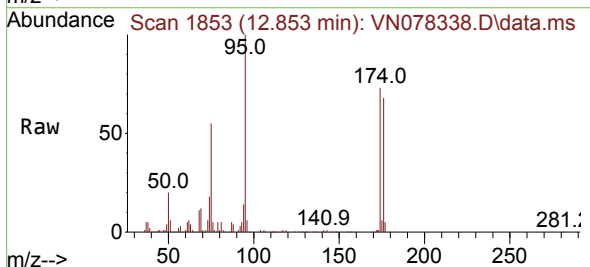
Tgt Ion: 75 Resp: 180492

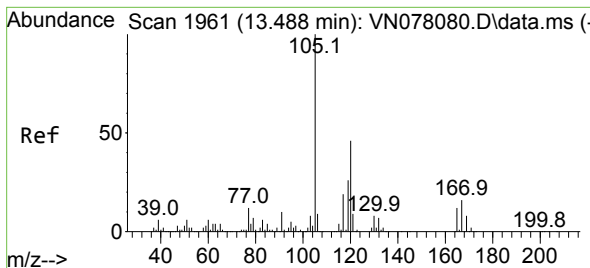
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.1 38.8 58.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.975 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. 0.000 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Instrument :

MSVOA_N

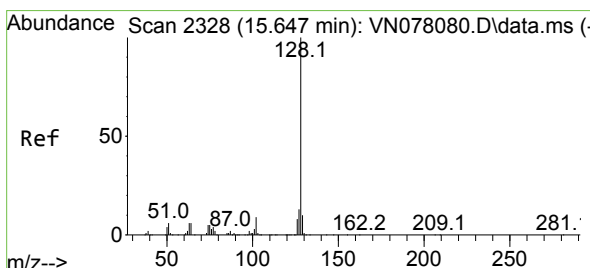
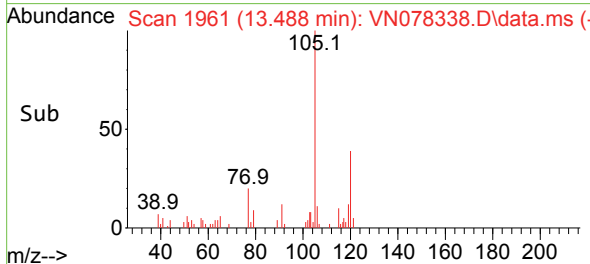
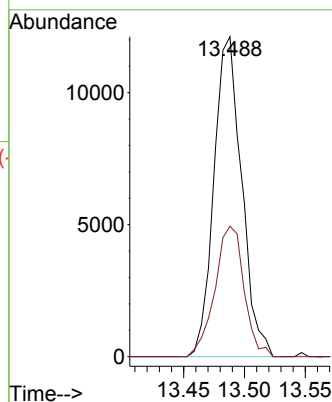
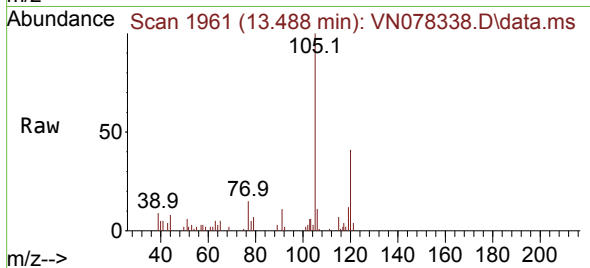
ClientSampleId :

Tgt Ion:105 Resp: 19204

Ion Ratio Lower Upper

105 100

120 42.9 22.0 66.0



#95

Naphthalene

Concen: 0.265 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.000 min

Lab File: VN078338.D

Acq: 21 Jun 2023 21:35

Tgt Ion:128 Resp: 3063

Ion Ratio Lower Upper

128 100

127 12.6 10.0 15.0

129 4.1 8.7 13.1#

