

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111523\
 Data File : VN080111.D
 Acq On : 15 Nov 2023 15:30
 Operator : JC\MD
 Sample : 05412-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

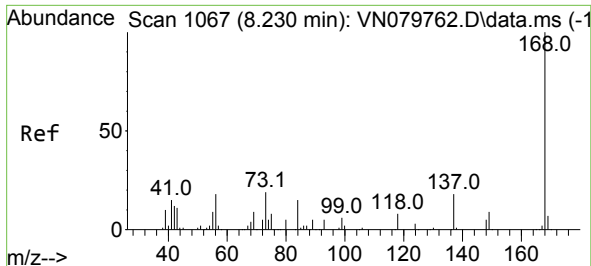
Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 15 21:53:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	177496	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	340558	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	370359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	150385	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	154053	56.968	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.940%			
35) Dibromofluoromethane	8.165	113	120998	50.200	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.400%			
50) Toluene-d8	10.571	98	441222	49.725	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.440%			
62) 4-Bromofluorobenzene	12.853	95	168497	57.257	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 114.520%			
Target Compounds						Qvalue
3) Chloromethane	2.354	50	316	Below Cal	#	42
11) Tert butyl alcohol	5.530	59	121	0.351	ug/l #	72
16) Acetone	4.436	43	25991	27.362	ug/l	98
18) Methyl Acetate	5.036	43	3820	0.841	ug/l #	68
20) Methylene Chloride	5.289	84	9080	3.788	ug/l #	90
25) 2-Butanone	7.500	43	2407	1.730	ug/l	88
31) Cyclohexane	8.236	56	4284	1.199	ug/l #	35
36) 1,1-Dichloropropene	8.224	75	14922	4.336	ug/l #	48
37) Ethyl Acetate	7.565	43	3046	0.965	ug/l #	81
38) Carbon Tetrachloride	8.230	117	21018	6.060	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	1079	0.300	ug/l #	73
43) Isopropyl Acetate	8.688	43	161156	29.115	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	1522	0.578	ug/l #	45
48) Methyl methacrylate	9.671	41	3641	1.502	ug/l #	29
49) 1,4-Dioxane	9.741	88	158	3.688	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	10795	3.464	ug/l #	72
53) t-1,3-Dichloropropene	10.735	75	926	0.246	ug/l #	77
54) cis-1,3-Dichloropropene	10.359	75	57871	14.119	ug/l #	67
56) Ethyl methacrylate	10.977	69	2025	0.578	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7498	1.731	ug/l #	42
59) 2-Hexanone	11.171	43	120141	50.396	ug/l #	19
74) N-amyl acetate	12.482	43	1443	0.290	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	95152	26.951	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	95152	73.326	ug/l #	15

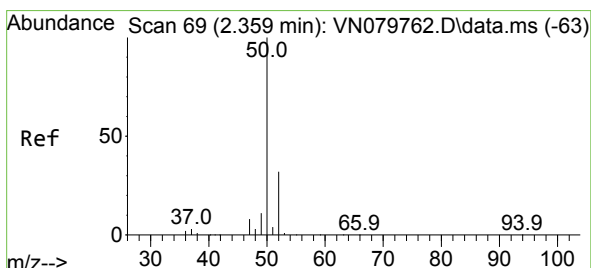
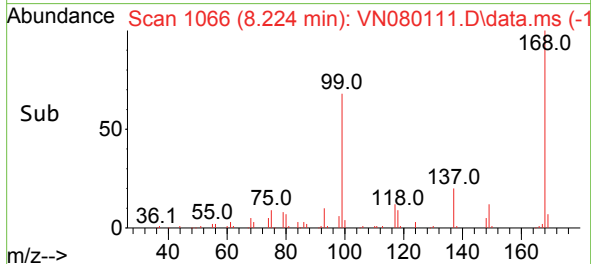
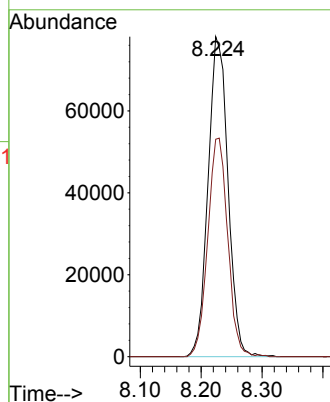
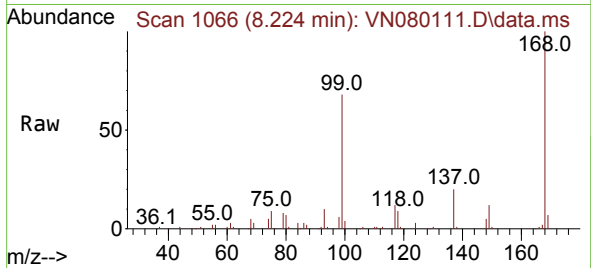
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.005 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

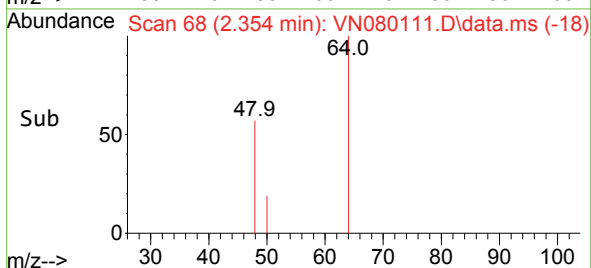
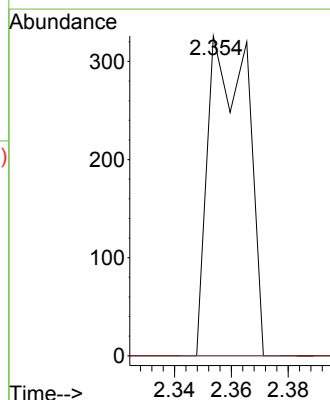
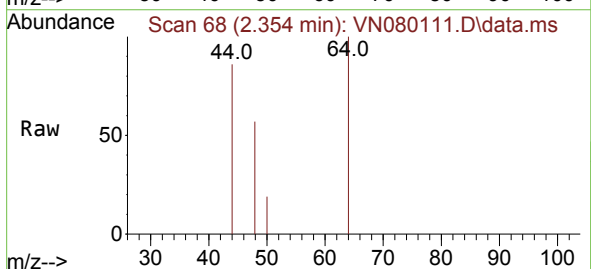
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:168 Resp: 177496
Ion Ratio Lower Upper
168 100
99 68.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.354 min Scan# 68
Delta R.T. -0.005 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Tgt Ion: 50 Resp: 316
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

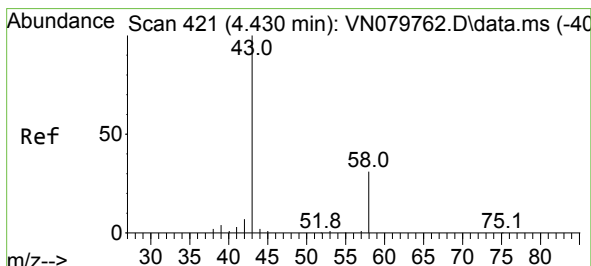
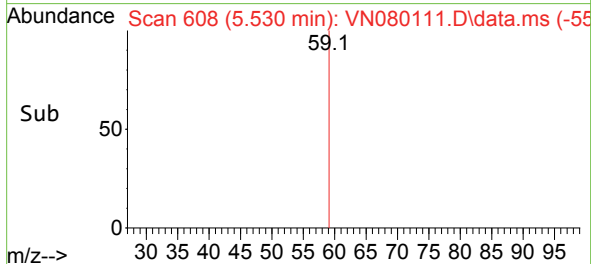
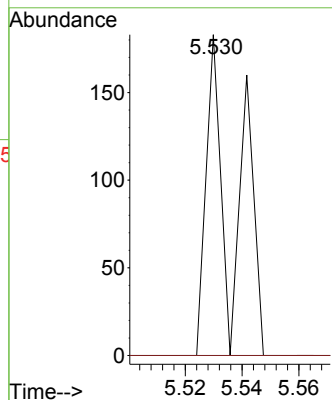
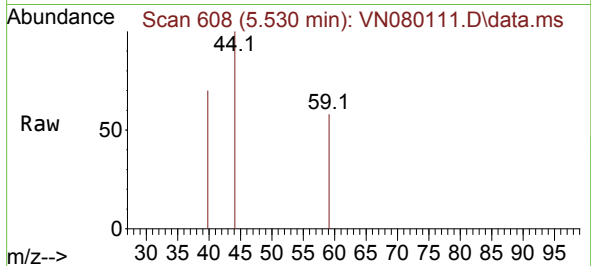




#11
Tert butyl alcohol
Concen: 0.351 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

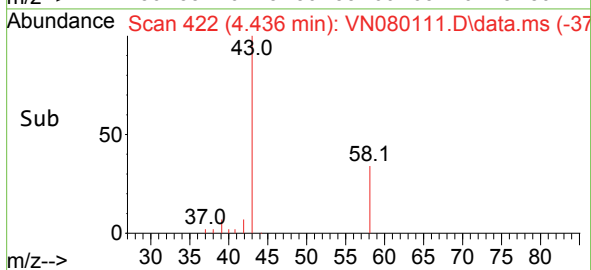
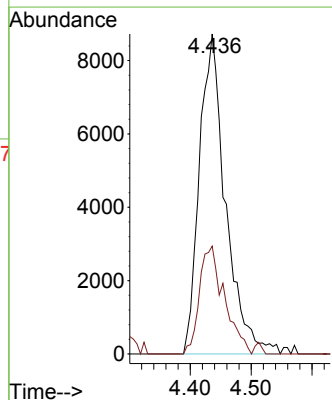
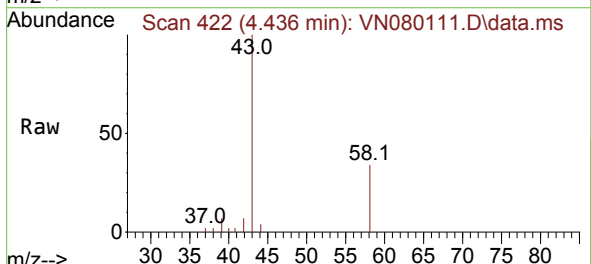
Instrument :
MSVOA_N
ClientSampleId :

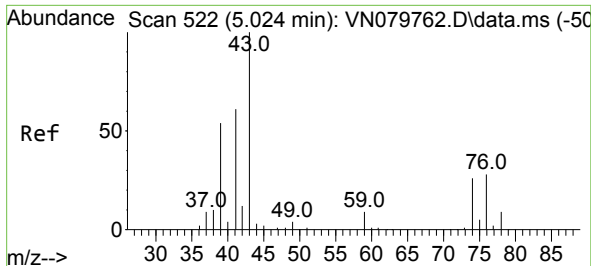
Tgt Ion: 59 Resp: 121
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 27.362 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Tgt Ion: 43 Resp: 25991
Ion Ratio Lower Upper
43 100
58 33.7 28.0 42.0

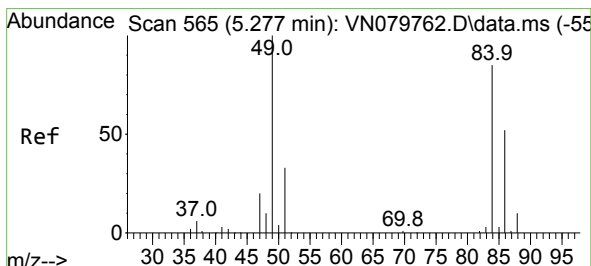
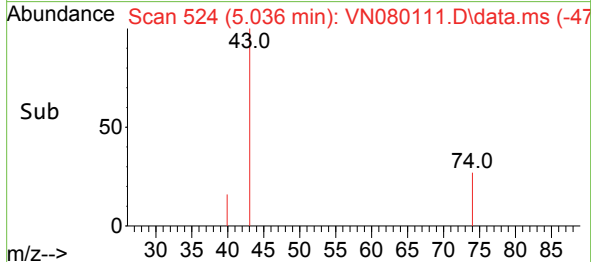
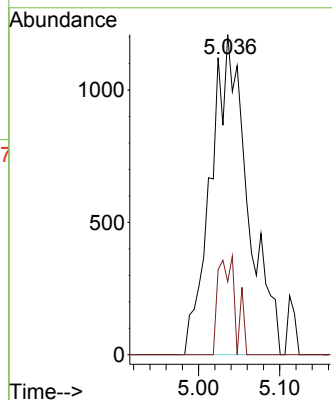
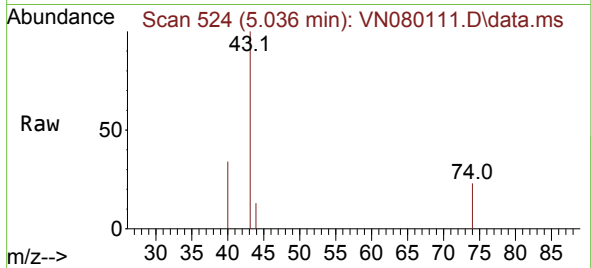




#18
Methyl Acetate
Concen: 0.841 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

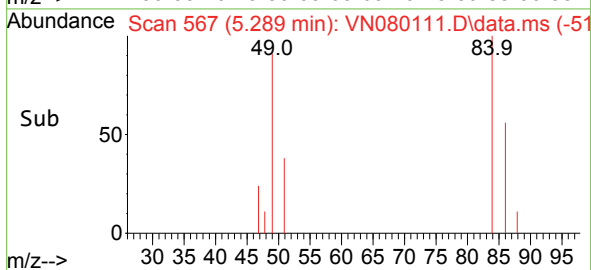
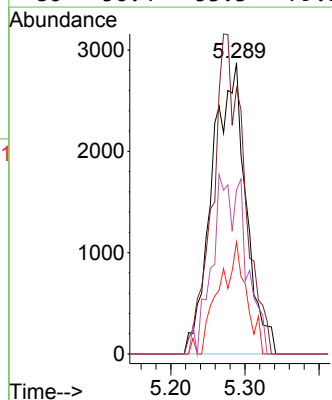
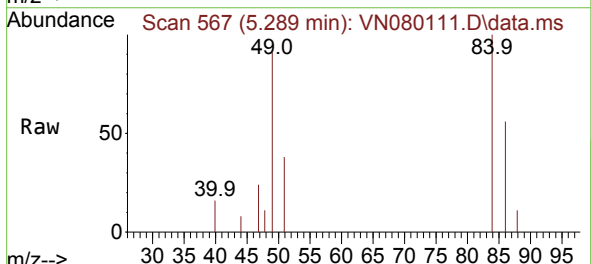
Instrument :
MSVOA_N
ClientSampleId :

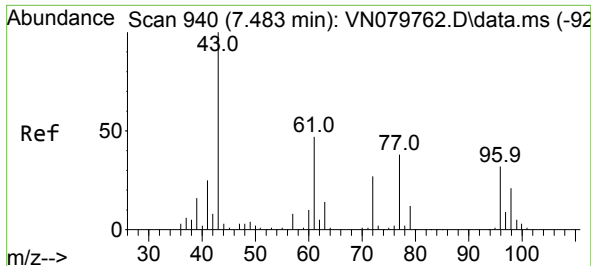
Tgt Ion: 43 Resp: 3820
Ion Ratio Lower Upper
43 100
74 14.6 26.2 39.4#



#20
Methylene Chloride
Concen: 3.788 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.018 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Tgt Ion: 84 Resp: 9080
Ion Ratio Lower Upper
84 100
49 91.3 79.7 119.5
51 38.4 25.2 37.8#
86 56.4 53.3 79.9

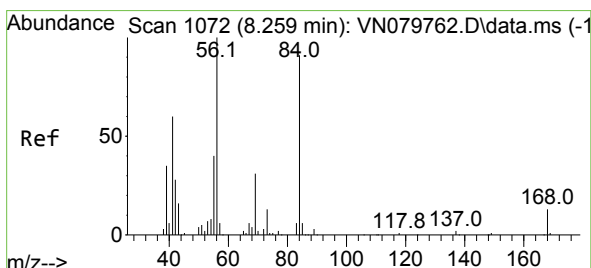
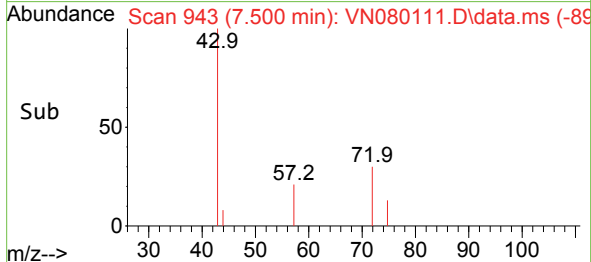
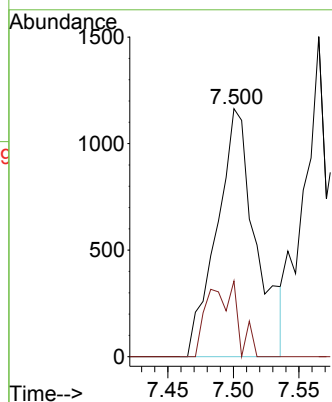
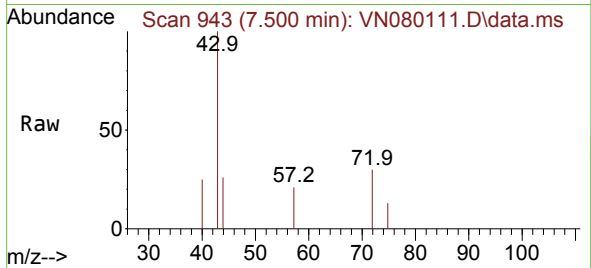




#25
2-Butanone
Concen: 1.730 ug/l
RT: 7.500 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

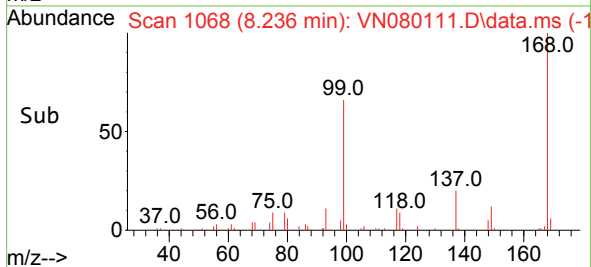
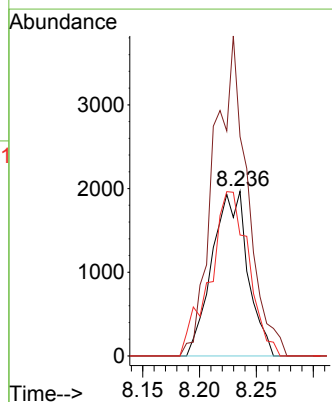
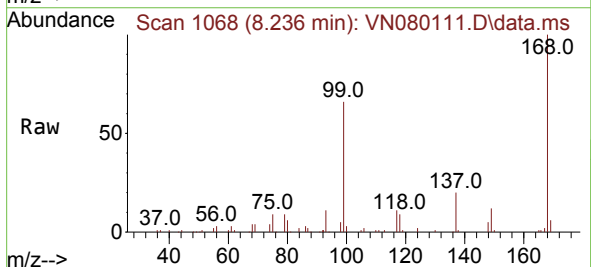
Instrument :
MSVOA_N
ClientSampleId :

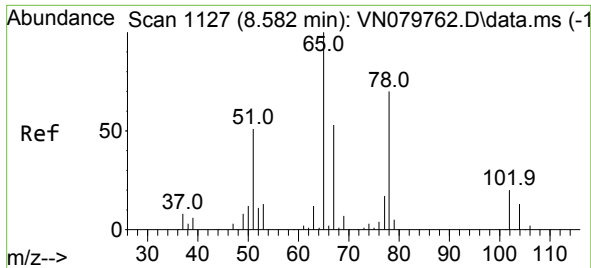
Tgt Ion: 43 Resp: 2407
Ion Ratio Lower Upper
43 100
72 30.5 30.2 45.2



#31
Cyclohexane
Concen: 1.199 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.023 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Tgt Ion: 56 Resp: 4284
Ion Ratio Lower Upper
56 100
69 133.2 26.8 40.2#
84 73.5 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 56.968 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Instrument :

MSVOA_N

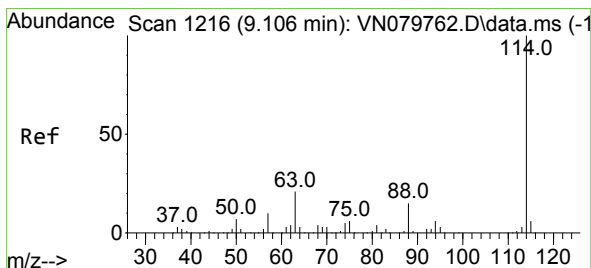
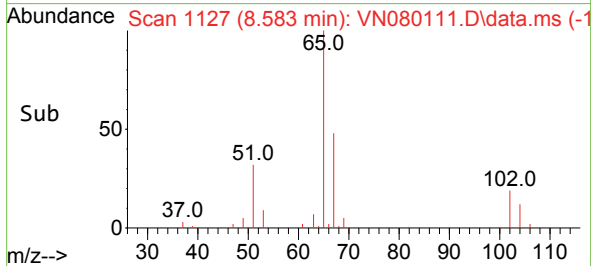
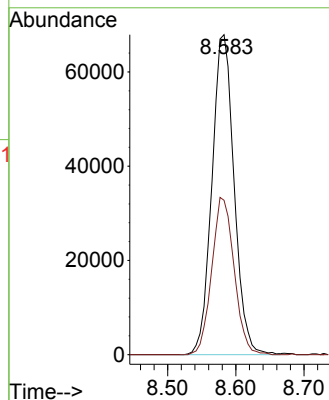
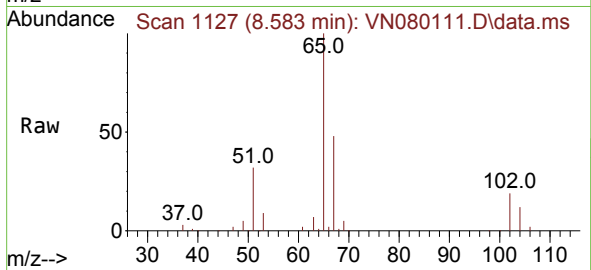
ClientSampleId :

Tgt Ion: 65 Resp: 154053

Ion Ratio Lower Upper

65 100

67 49.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

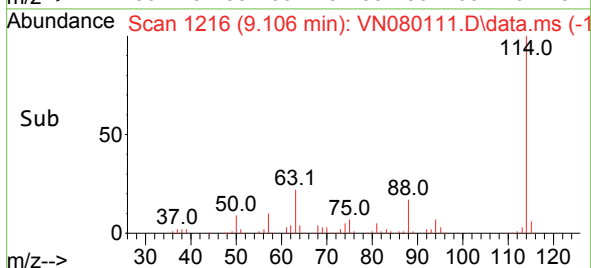
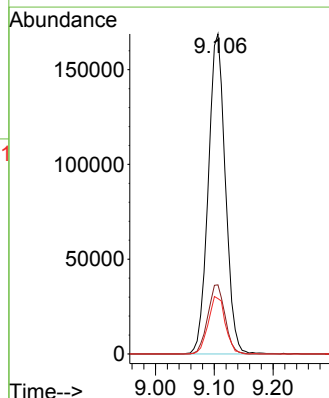
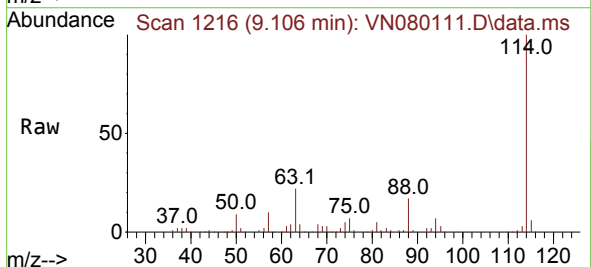
Tgt Ion: 114 Resp: 340558

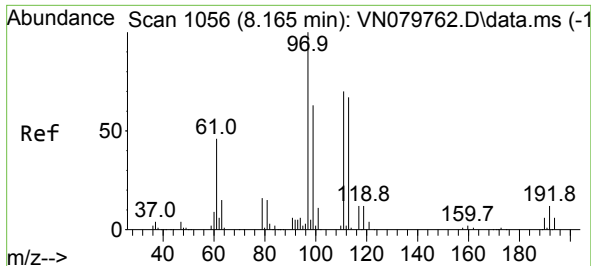
Ion Ratio Lower Upper

114 100

63 21.6 0.0 36.4

88 17.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.200 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

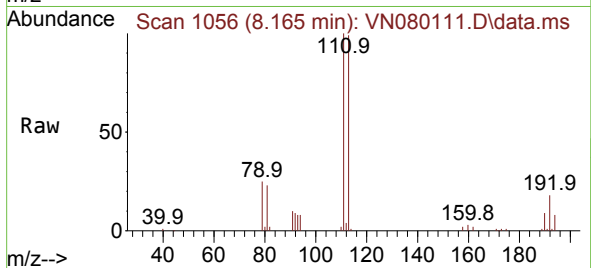
Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Instrument :

MSVOA_N

ClientSampleId :



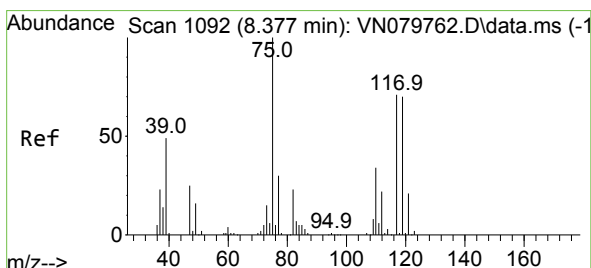
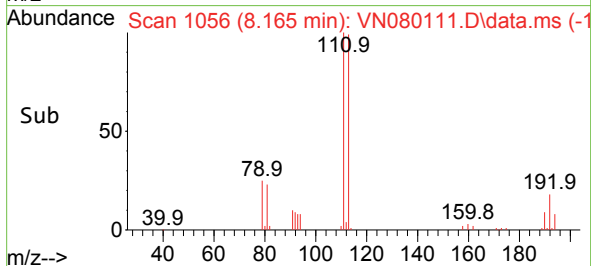
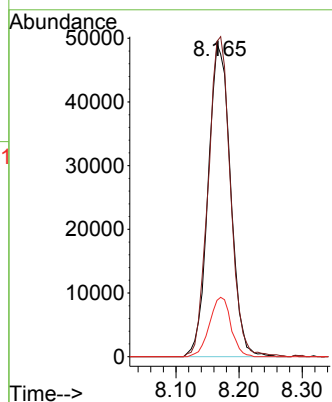
Tgt Ion:113 Resp: 120998

Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

192 18.1 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.336 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

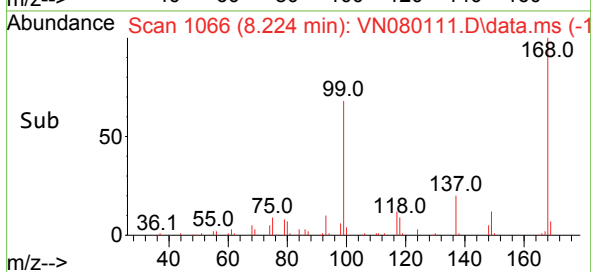
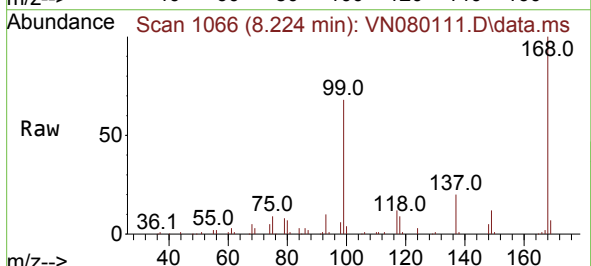
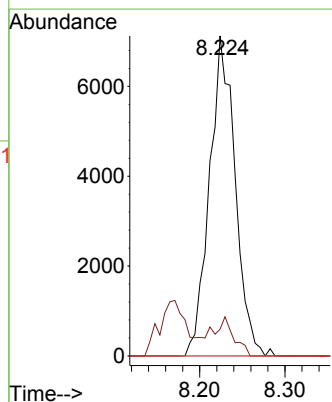
Tgt Ion: 75 Resp: 14922

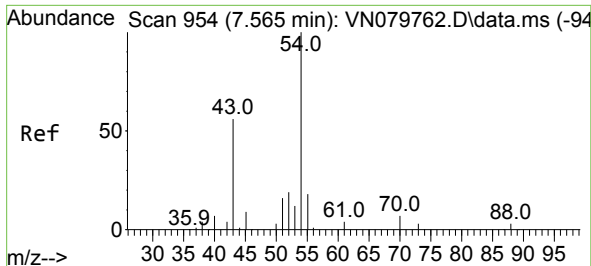
Ion Ratio Lower Upper

75 100

110 9.5 19.1 57.3#

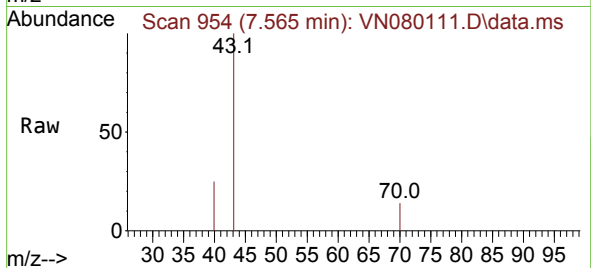
77 0.0 25.0 37.4#



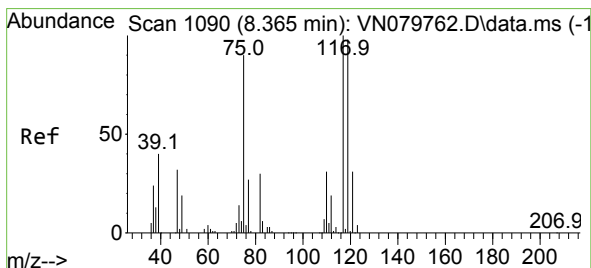
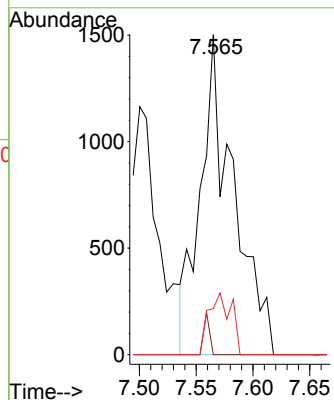
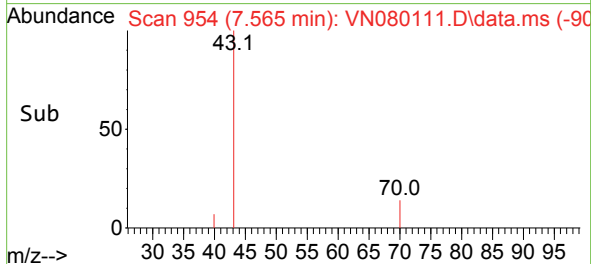


#37
Ethyl Acetate
Concen: 0.965 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Instrument :
MSVOA_N
ClientSampleId :

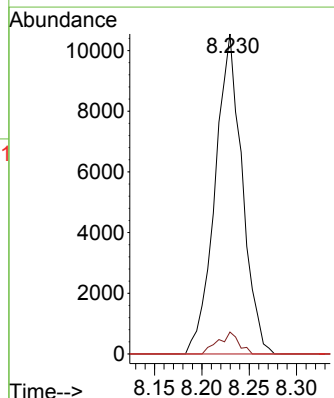
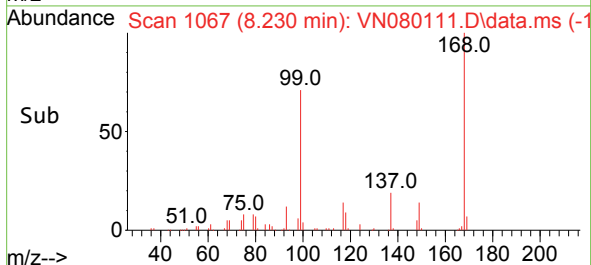
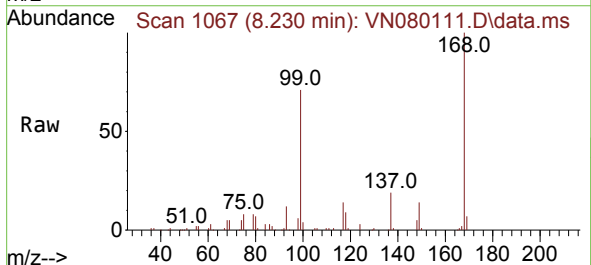


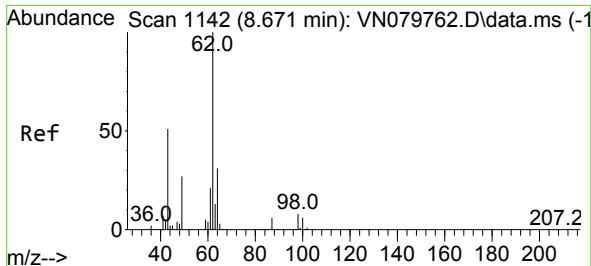
Tgt Ion: 43 Resp: 3046
Ion Ratio Lower Upper
43 100
61 2.3 13.2 19.8#
70 13.2 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.060 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Tgt Ion: 117 Resp: 21018
Ion Ratio Lower Upper
117 100
119 6.9 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.300 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Instrument :

MSVOA_N

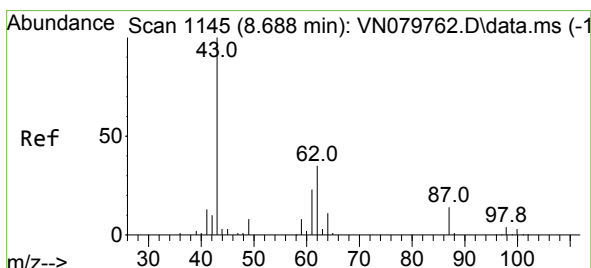
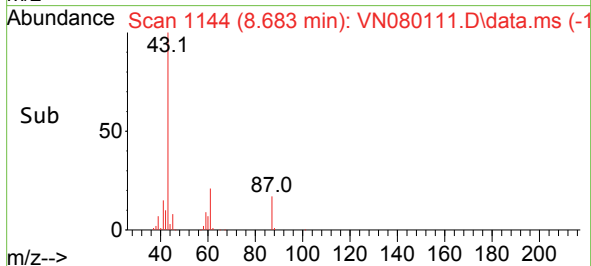
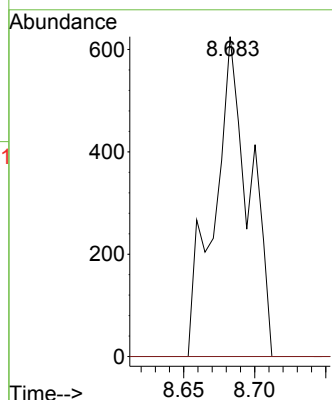
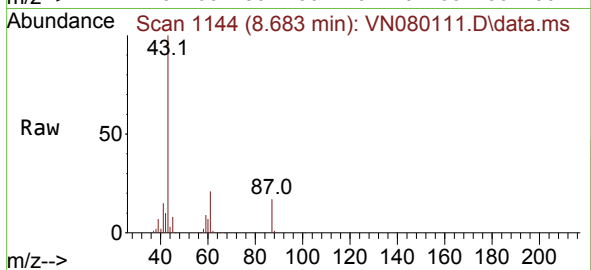
ClientSampleId :

Tgt Ion: 62 Resp: 1079

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 29.115 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

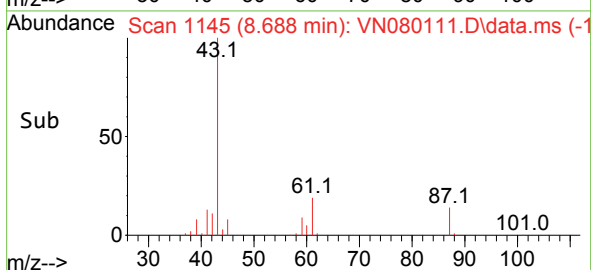
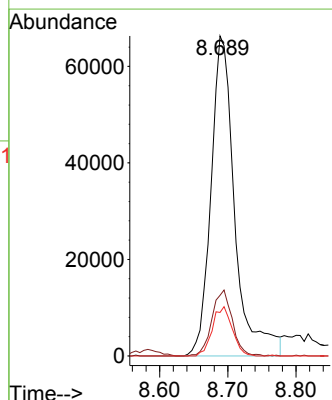
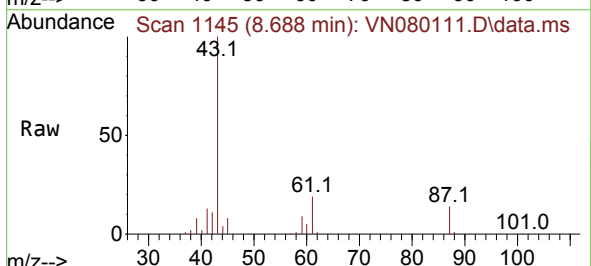
Tgt Ion: 43 Resp: 161156

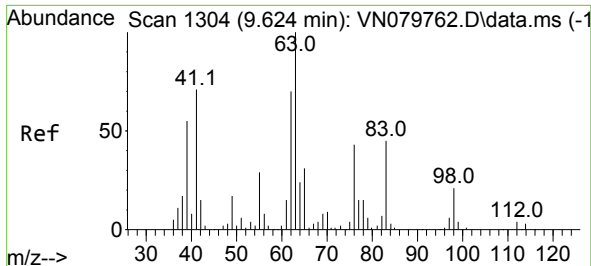
Ion Ratio Lower Upper

43 100

61 17.7 24.7 37.1#

87 12.9 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.578 ug/l

RT: 9.741 min Scan# 1312

Delta R.T. 0.118 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Instrument :

MSVOA_N

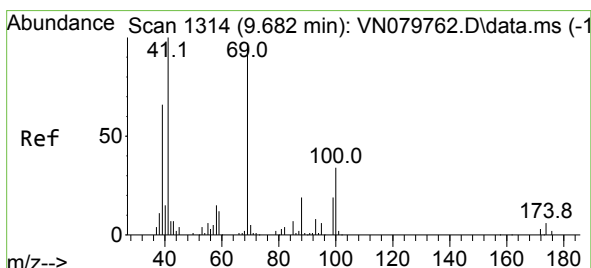
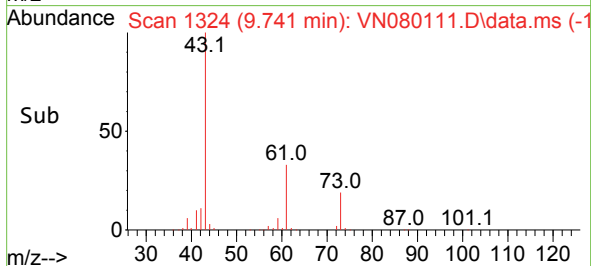
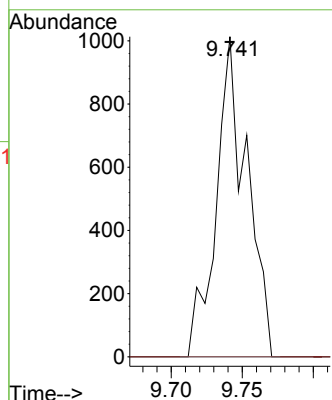
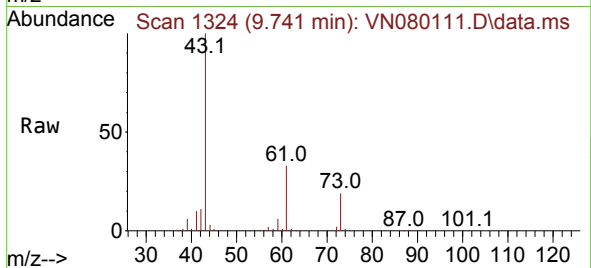
ClientSampleId :

Tgt Ion: 63 Resp: 1522

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.502 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.012 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

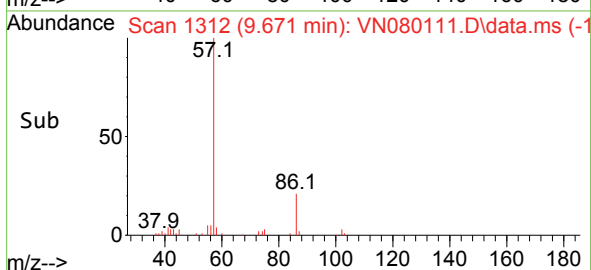
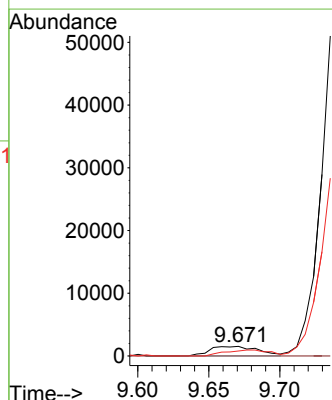
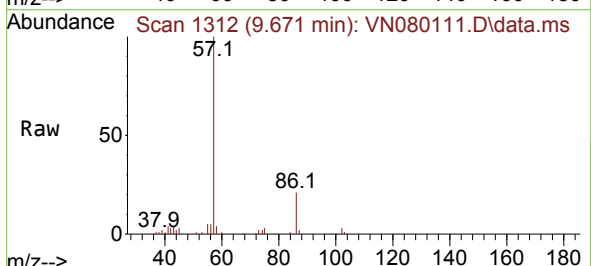
Tgt Ion: 41 Resp: 3641

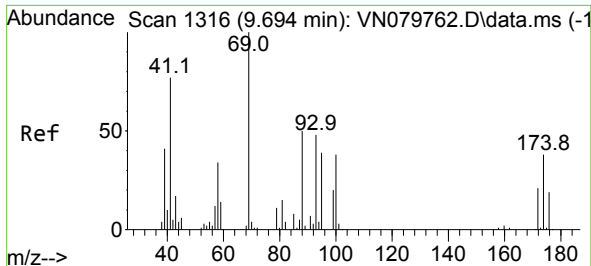
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 56.5 54.6 81.8





#49

1,4-Dioxane

Concen: 3.688 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Instrument :

MSVOA_N

ClientSampleId :

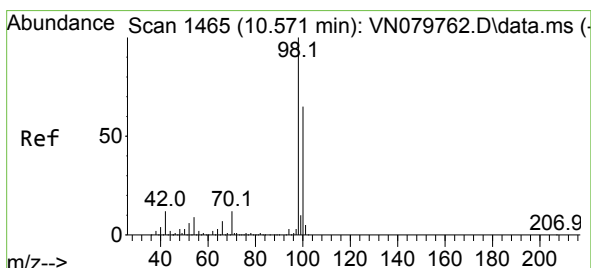
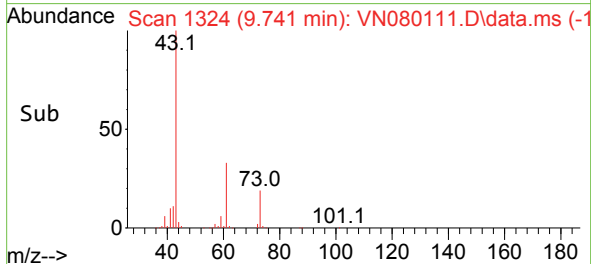
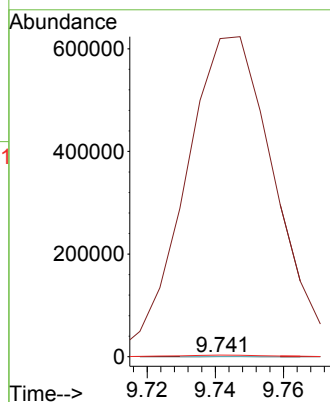
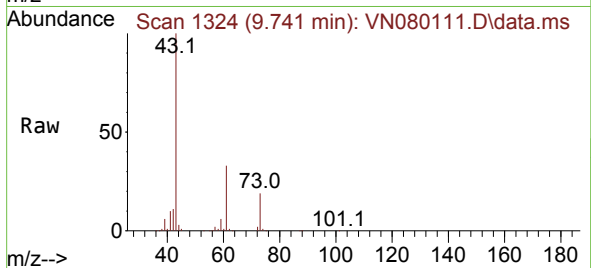
Tgt Ion: 88 Resp: 158

Ion Ratio Lower Upper

88 100

43 730229.1 17.0 25.6#

58 3774.1 47.0 70.4#



#50

Toluene-d8

Concen: 49.725 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN080111.D

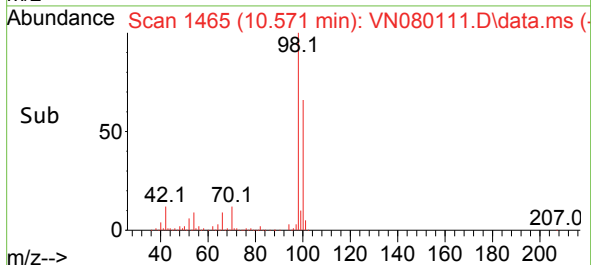
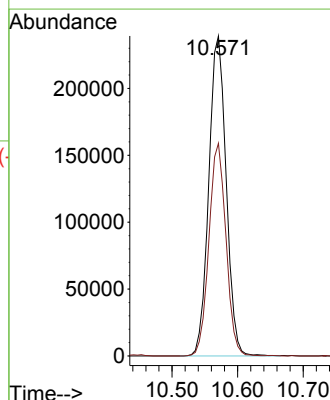
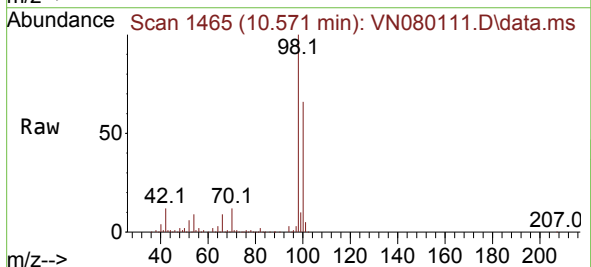
Acq: 15 Nov 2023 15:30

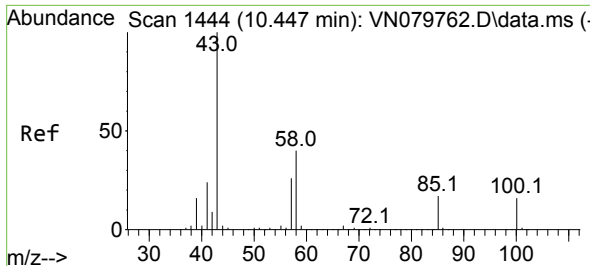
Tgt Ion: 98 Resp: 441222

Ion Ratio Lower Upper

98 100

100 65.2 52.0 78.0

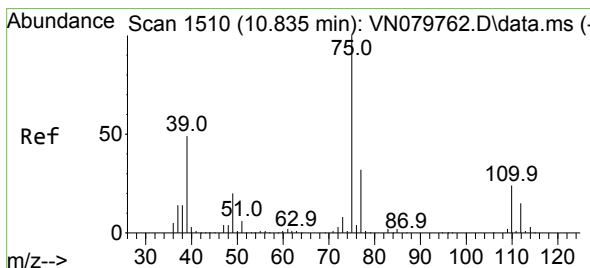
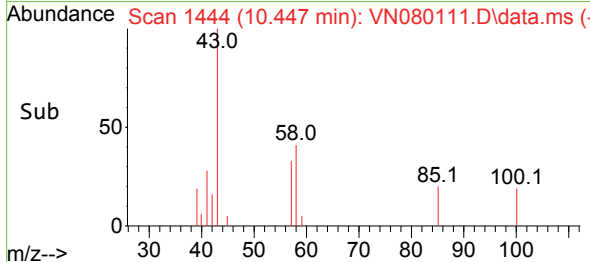
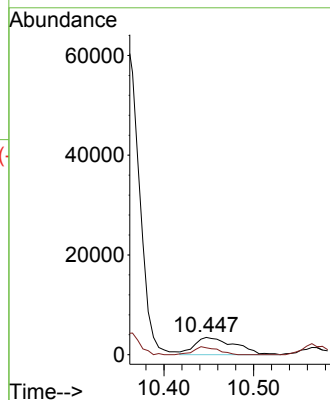
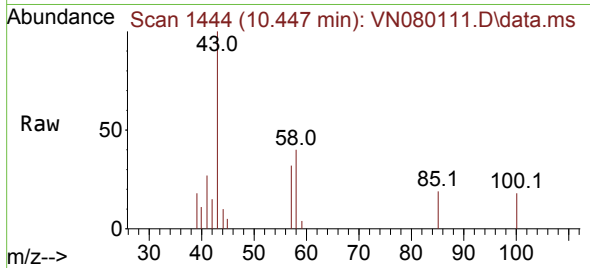




#51
4-Methyl-2-Pentanone
Concen: 3.464 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

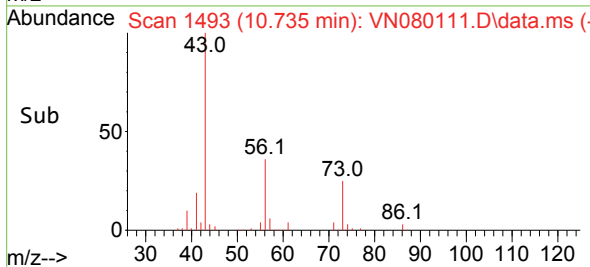
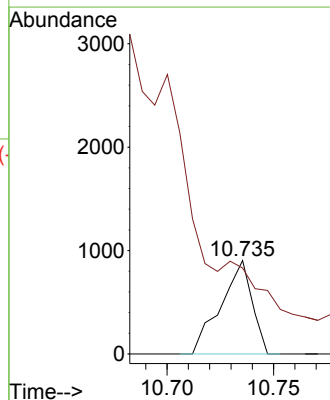
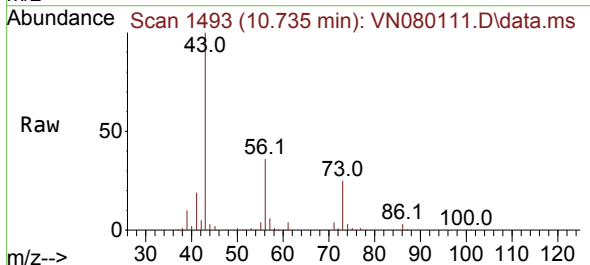
Instrument :
MSVOA_N
ClientSampleId :

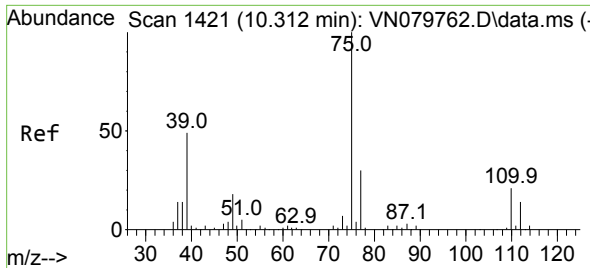
Tgt Ion: 43 Resp: 10795
Ion Ratio Lower Upper
43 100
58 27.3 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.246 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.106 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Tgt Ion: 75 Resp: 926
Ion Ratio Lower Upper
75 100
77 44.2 25.4 38.0#

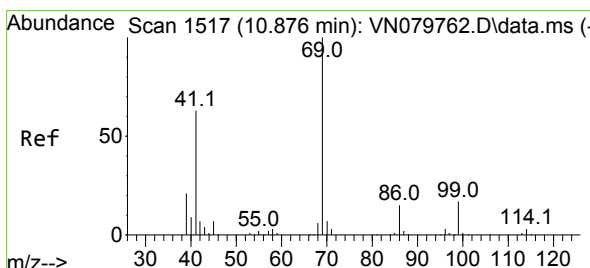
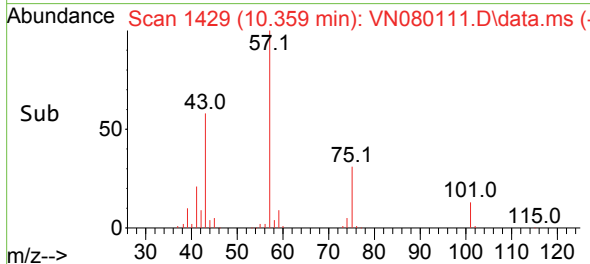
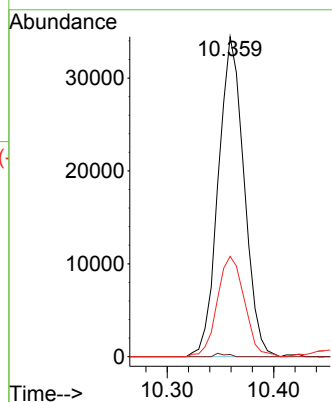
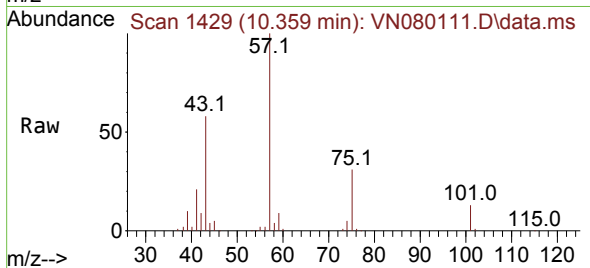




#54
 cis-1,3-Dichloropropene
 Concen: 14.119 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN080111.D
 Acq: 15 Nov 2023 15:30

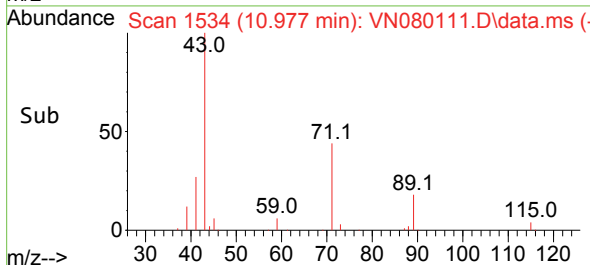
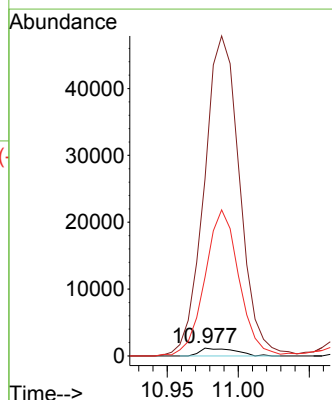
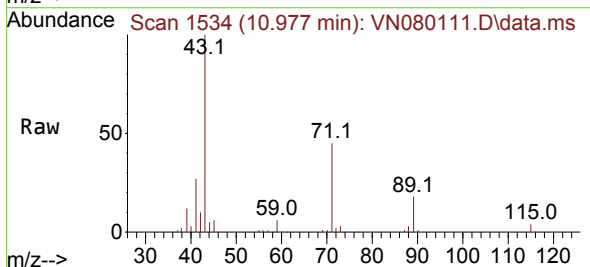
Instrument :
 MSVOA_N
 ClientSampleId :

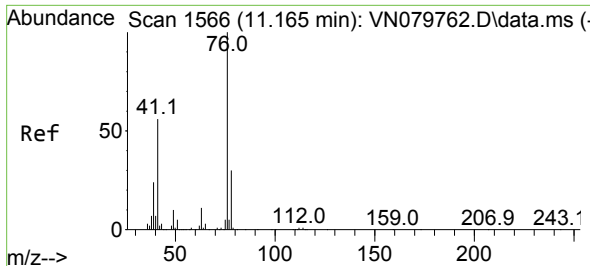
Tgt Ion: 75 Resp: 57871
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 31.3 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.578 ug/l
 RT: 10.977 min Scan# 1534
 Delta R.T. 0.100 min
 Lab File: VN080111.D
 Acq: 15 Nov 2023 15:30

Tgt Ion: 69 Resp: 2025
 Ion Ratio Lower Upper
 69 100
 41 4120.8 39.6 59.4#
 39 1815.3 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.731 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Instrument :

MSVOA_N

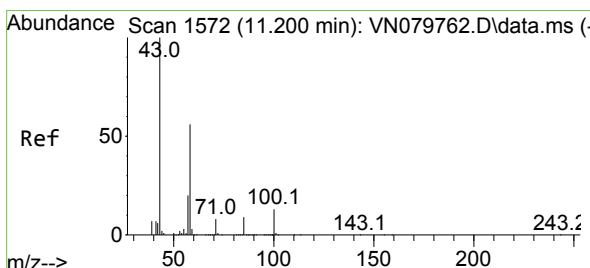
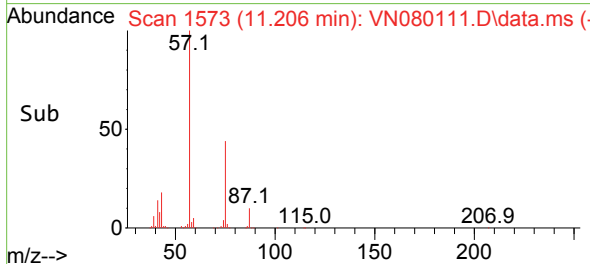
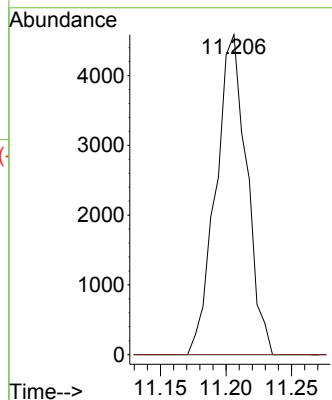
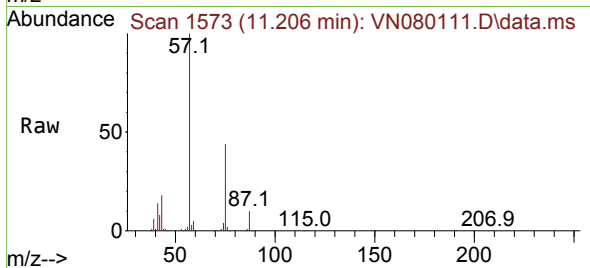
ClientSampleId :

Tgt Ion: 76 Resp: 7498

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 50.396 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.029 min

Lab File: VN080111.D

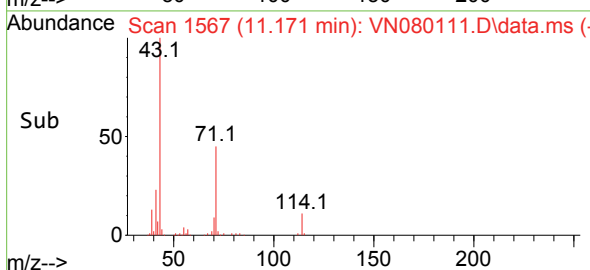
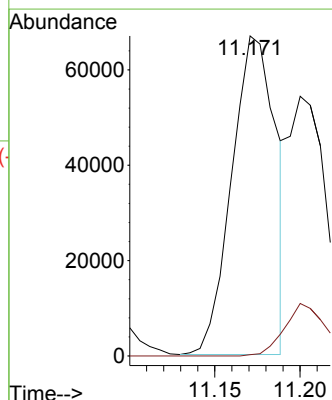
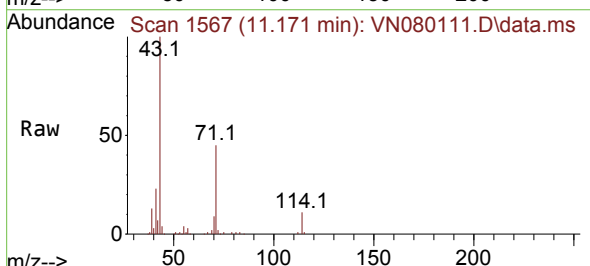
Acq: 15 Nov 2023 15:30

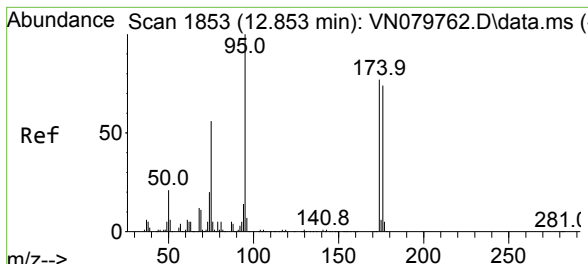
Tgt Ion: 43 Resp: 120141

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

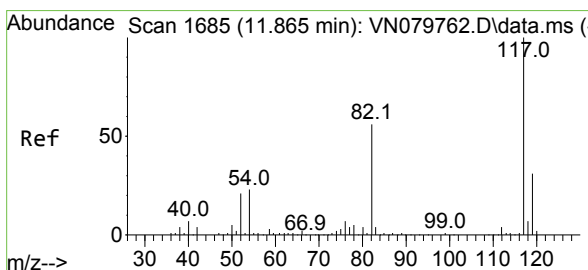
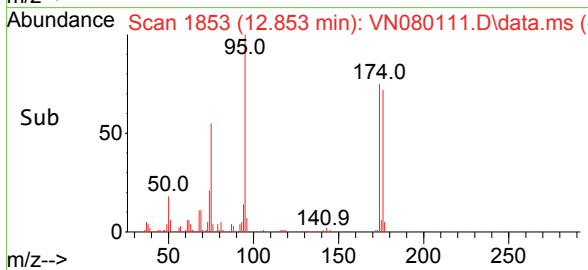
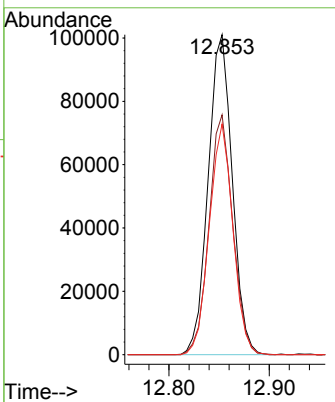
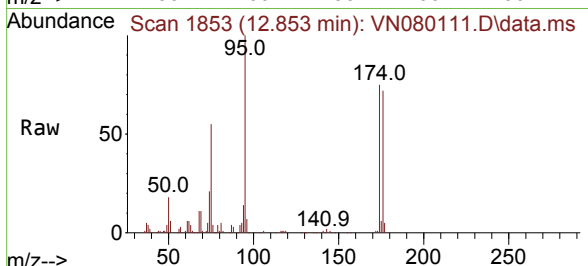




#62
 4-Bromofluorobenzene
 Concen: 57.257 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN080111.D
 Acq: 15 Nov 2023 15:30

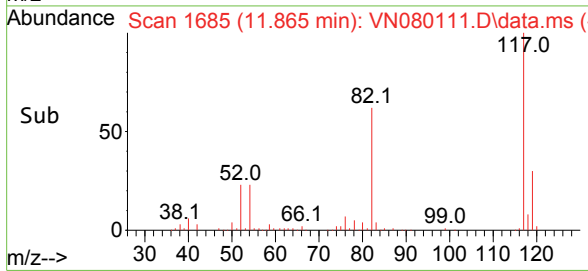
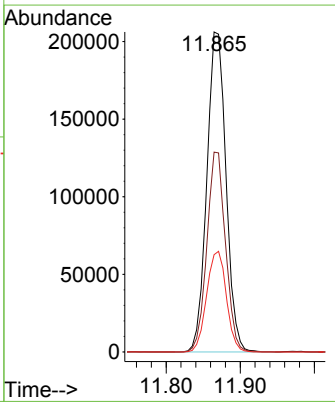
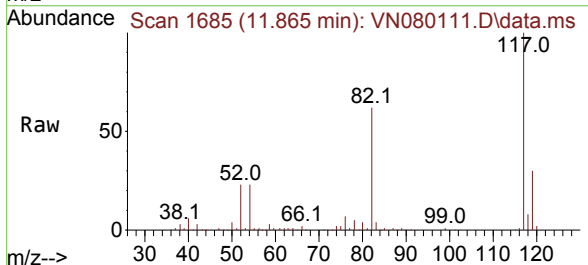
Instrument :
 MSVOA_N
 ClientSampleId :

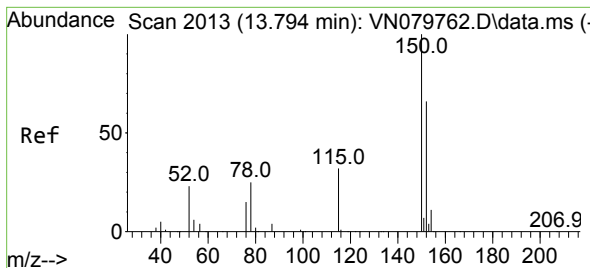
Tgt Ion:	95	Resp:	168497
Ion Ratio	Lower	Upper	
95	100		
174	74.1	0.0	143.8
176	70.6	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.865 min Scan# 1685
 Delta R.T. -0.006 min
 Lab File: VN080111.D
 Acq: 15 Nov 2023 15:30

Tgt Ion:	117	Resp:	370359
Ion Ratio	Lower	Upper	
117	100		
82	62.5	44.0	66.0
119	30.4	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. 0.000 min

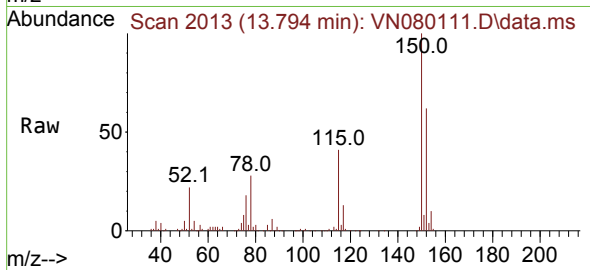
Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Instrument :

MSVOA_N

ClientSampleId :



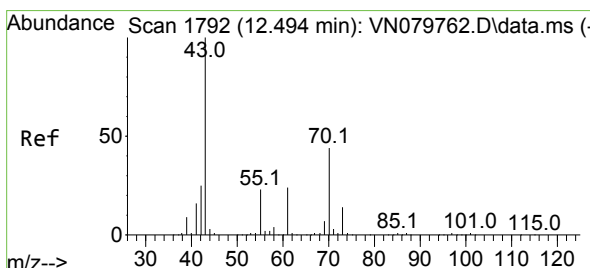
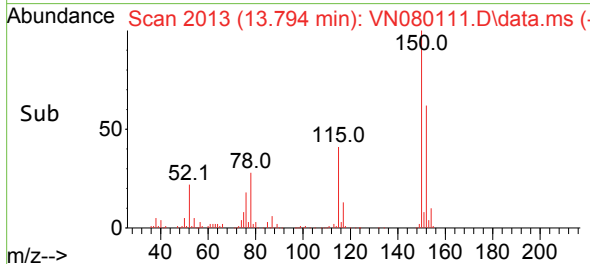
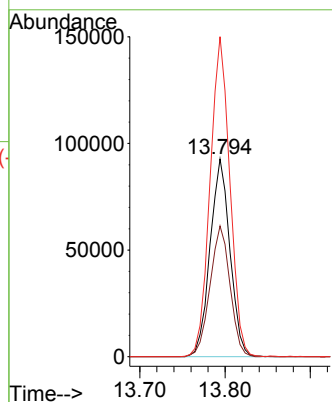
Tgt Ion:152 Resp: 150385

Ion Ratio Lower Upper

152 100

115 66.4 32.3 96.8

150 160.4 0.0 355.8



#74

N-ethyl acetate

Concen: 0.290 ug/l

RT: 12.482 min Scan# 1790

Delta R.T. -0.012 min

Lab File: VN080111.D

Acq: 15 Nov 2023 15:30

Tgt Ion: 43 Resp: 1443

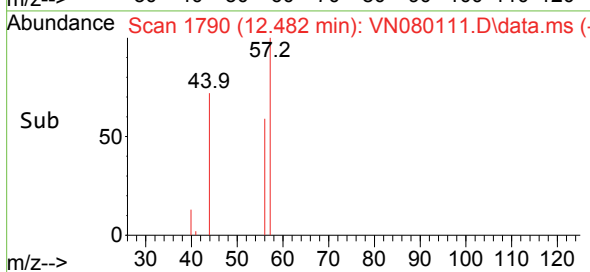
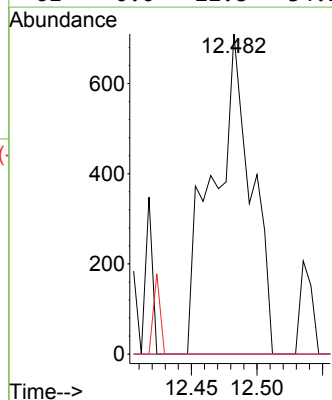
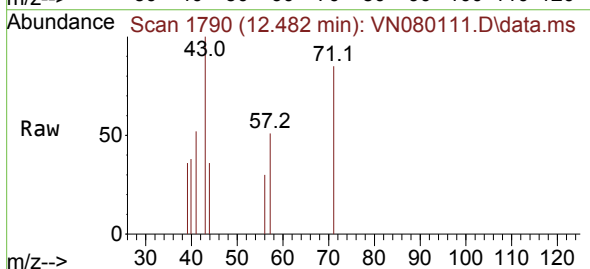
Ion Ratio Lower Upper

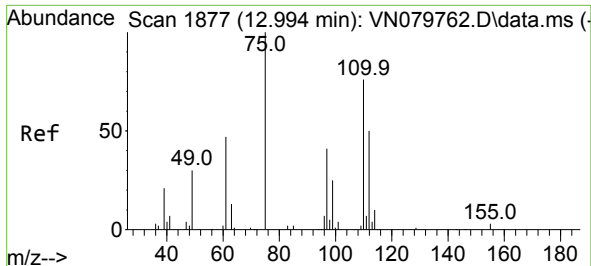
43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#

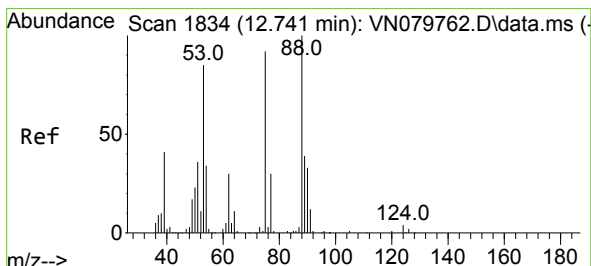
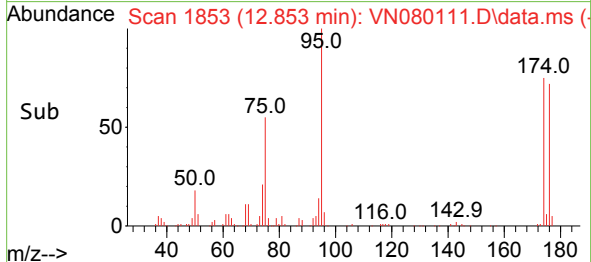
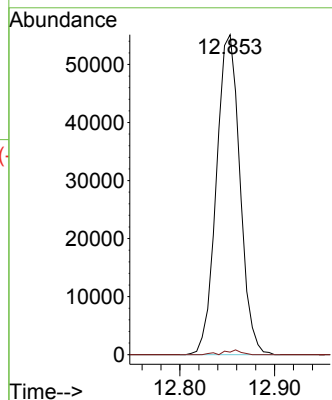
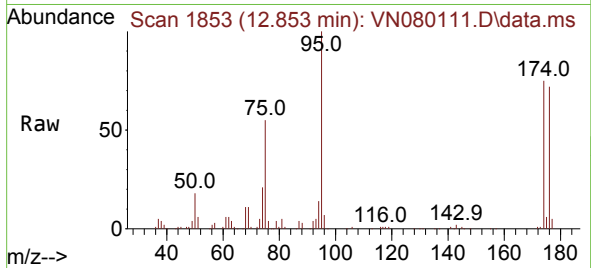




#76
1,2,3-Trichloropropane
Concen: 26.951 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 95152
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.326 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080111.D
Acq: 15 Nov 2023 15:30

Tgt Ion: 75 Resp: 95152
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

