

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078335.D
 Acq On : 21 Jun 2023 20:23
 Operator : JC\MD
 Sample : 03337-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-7

Quant Time: Jun 22 04:55:40 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)

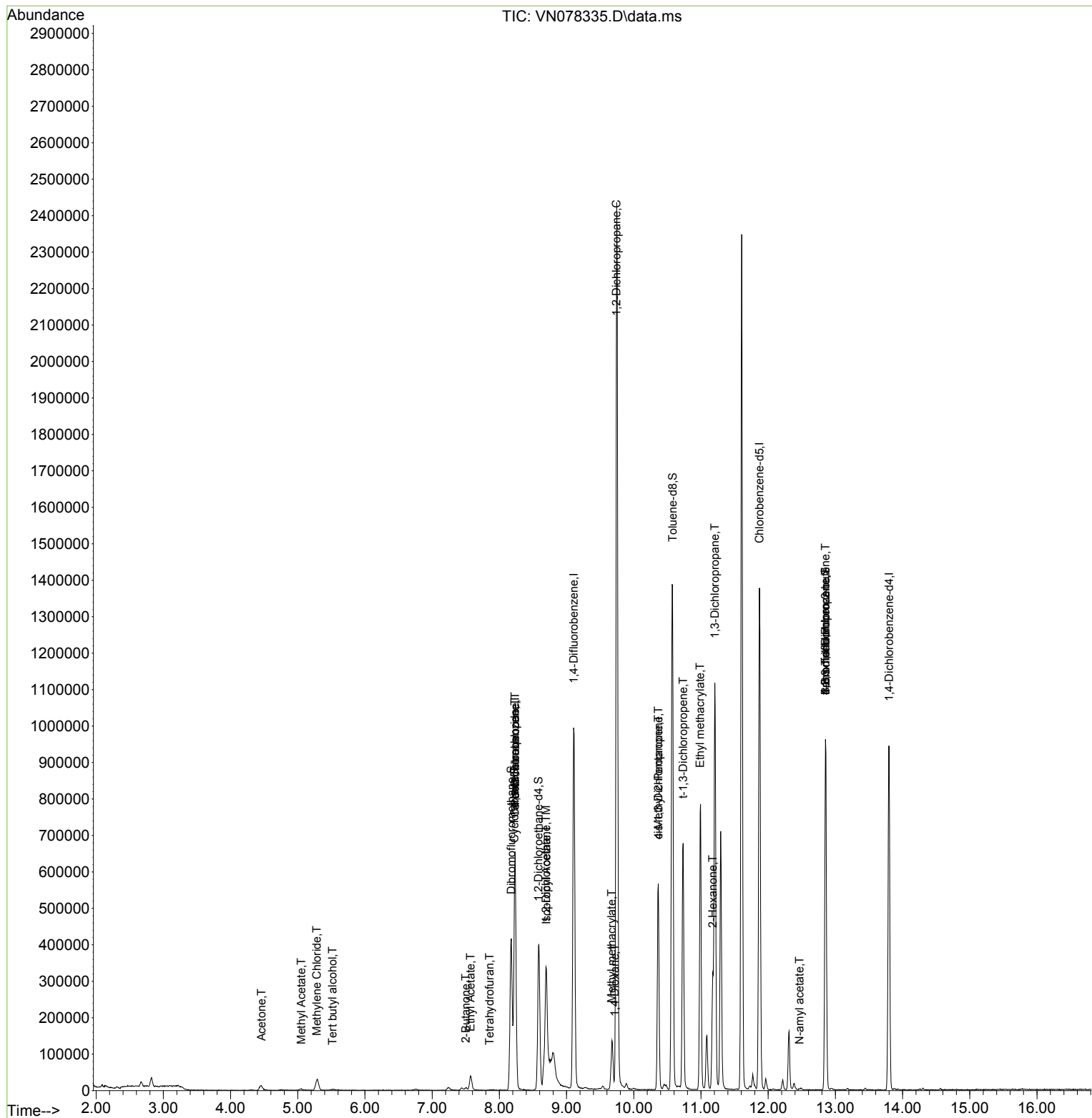
Internal Standards						
1) Pentafluorobenzene	8.236	168	460451	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	885624	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	816968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	263956	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	328551	53.517	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.040%			
35) Dibromofluoromethane	8.177	113	300615	53.684	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.360%			
50) Toluene-d8	10.577	98	1042811	48.307	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.620%			
62) 4-Bromofluorobenzene	12.853	95	337475	50.287	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.580%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1279	Below Cal		96
11) Tert butyl alcohol	5.518	59	1744	2.057 ug/l #		72
16) Acetone	4.459	43	27130	15.353 ug/l		93
18) Methyl Acetate	5.053	43	7041	0.865 ug/l #		42
20) Methylene Chloride	5.283	84	23549	4.033 ug/l #		93
25) 2-Butanone	7.500	43	9988	3.676 ug/l #		78
29) Tetrahydrofuran	7.853	42	494	0.272 ug/l #		54
31) Cyclohexane	8.224	56	11847	1.504 ug/l #		49
36) 1,1-Dichloropropene	8.236	75	40169	5.001 ug/l #		48
37) Ethyl Acetate	7.571	43	59338	9.457 ug/l #		95
38) Carbon Tetrachloride	8.230	117	51211	6.038 ug/l #		15
42) 1,2-Dichloroethane	8.694	62	3020	0.367 ug/l #		73
43) Isopropyl Acetate	8.700	43	442889	36.907 ug/l #		72
45) 1,2-Dichloropropane	9.741	63	3206	0.537 ug/l #		45
48) Methyl methacrylate	9.671	41	8437	1.675 ug/l #		28
49) 1,4-Dioxane	9.718	88	66	0.624 ug/l #		30
51) 4-Methyl-2-Pentanone	10.365	43	201058	31.818 ug/l #		41
53) t-1,3-Dichloropropene	10.735	75	2185	0.257 ug/l #		56
54) cis-1,3-Dichloropropene	10.365	75	107564	11.446 ug/l #		64
56) Ethyl methacrylate	10.988	69	3450	0.414 ug/l #		1
57) 1,3-Dichloropropane	11.206	76	12125	1.254 ug/l #		42
59) 2-Hexanone	11.177	43	241994	55.000 ug/l #		19
71) Bromoform	12.853	173	2988	0.720 ug/l #		1
74) N-amyl acetate	12.465	43	1721	0.209 ug/l #		42
75) 1,1,2,2-Tetrachloroethane	12.935	83	90	Below Cal #		26
76) 1,2,3-Trichloropropane	12.853	75	182500	29.247 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	182500	89.855 ug/l #		15

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

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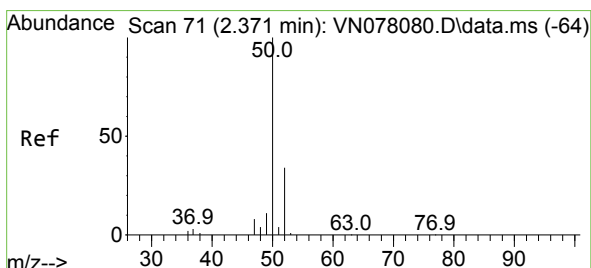
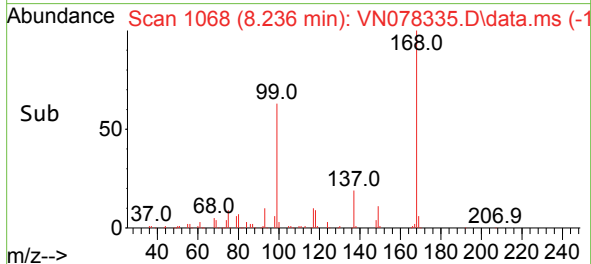
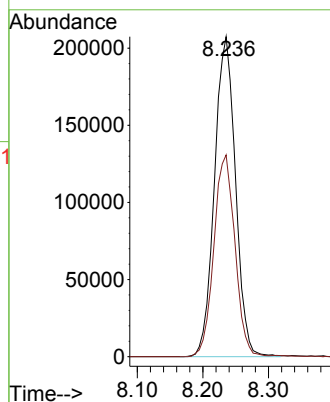
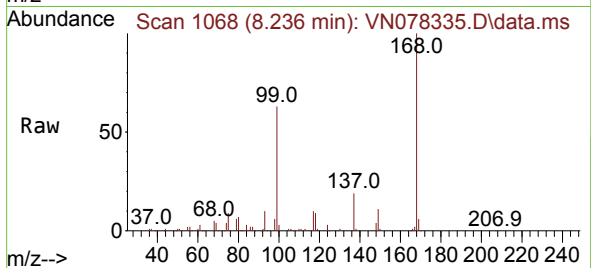




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.001 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

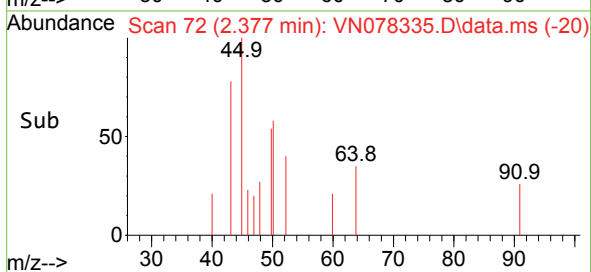
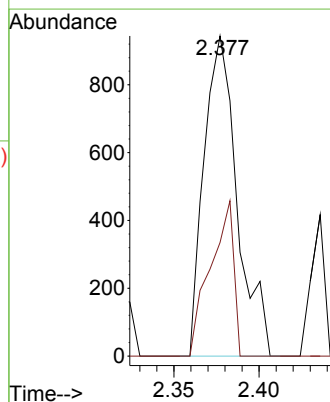
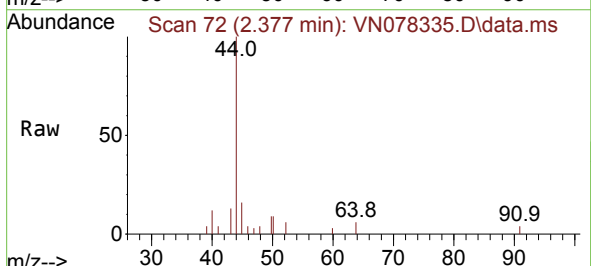
Instrument :
MSVOA_N
ClientSampleId :
WC-7

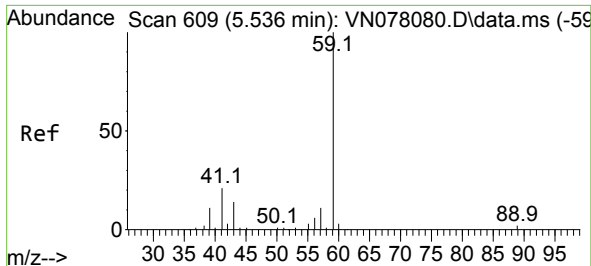
Tgt Ion:168 Resp: 460451
Ion Ratio Lower Upper
168 100
99 63.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 50 Resp: 1279
Ion Ratio Lower Upper
50 100
52 35.5 26.5 39.7

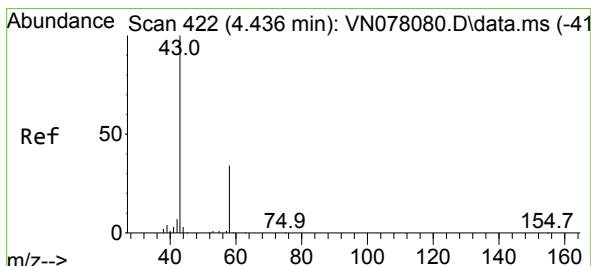
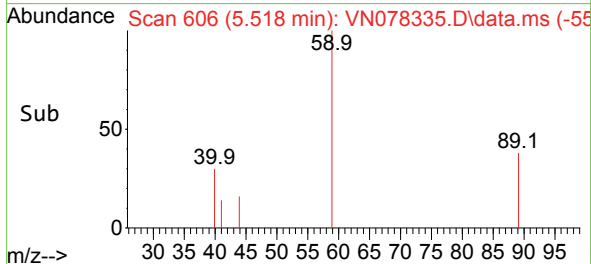
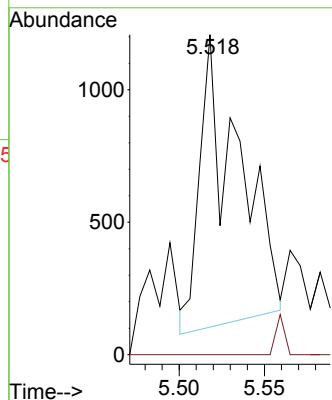
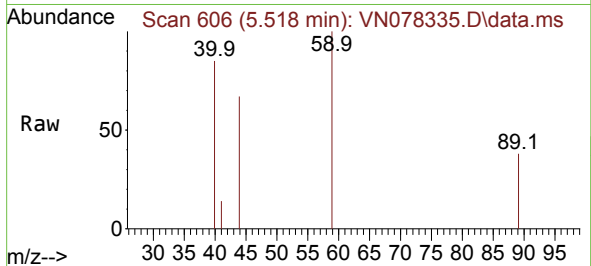




#11
Tert butyl alcohol
Concen: 2.057 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

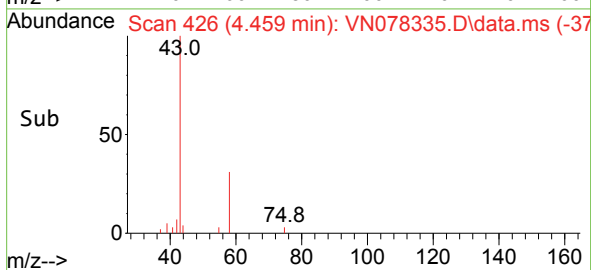
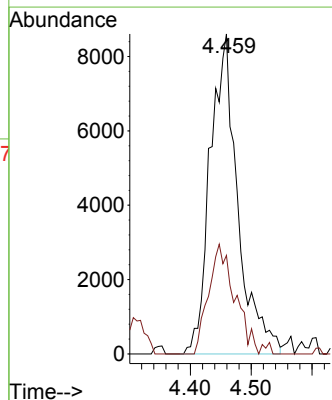
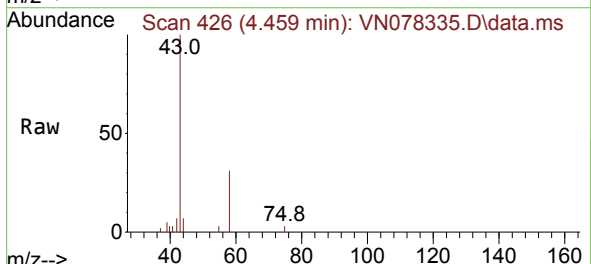
Instrument :
MSVOA_N
ClientSampleId :
WC-7

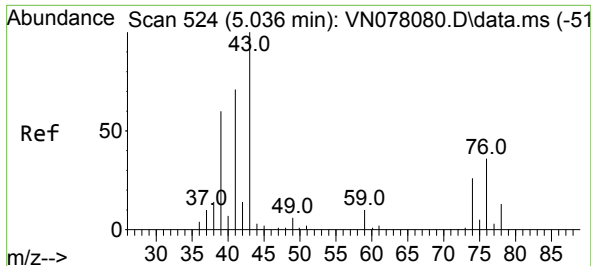
Tgt Ion: 59 Resp: 1744
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 15.353 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.024 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 43 Resp: 27130
Ion Ratio Lower Upper
43 100
58 30.8 28.0 42.0

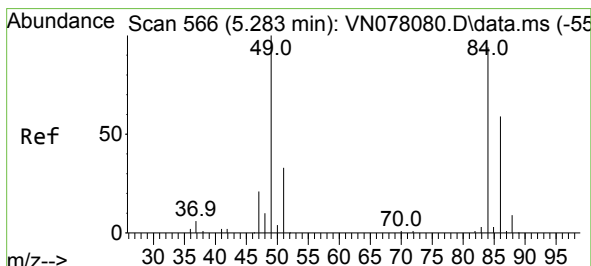
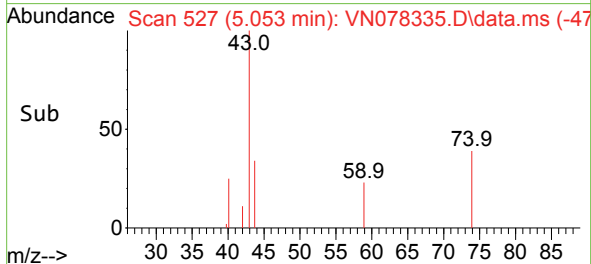
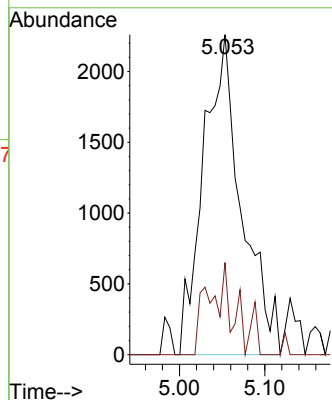
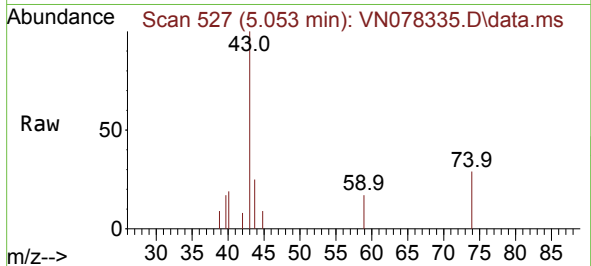




#18
Methyl Acetate
Concen: 0.865 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

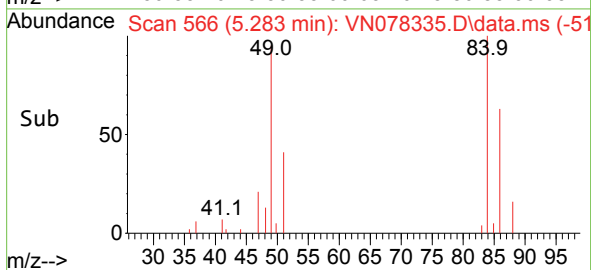
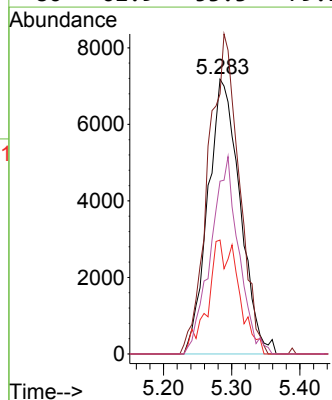
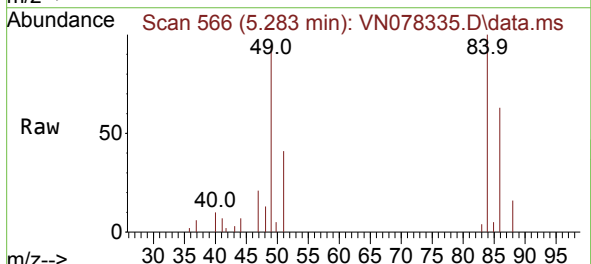
Instrument :
MSVOA_N
ClientSampleId :
WC-7

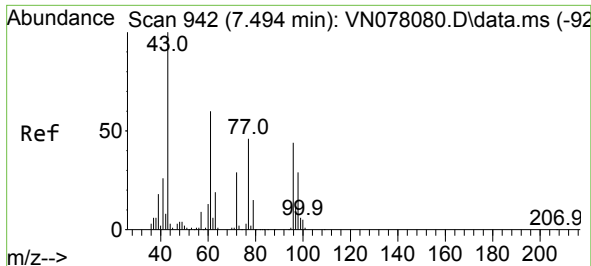
Tgt Ion: 43 Resp: 7041
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



#20
Methylene Chloride
Concen: 4.033 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.000 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 84 Resp: 23549
Ion Ratio Lower Upper
84 100
49 94.7 79.7 119.5
51 41.5 25.2 37.8#
86 62.9 53.3 79.9

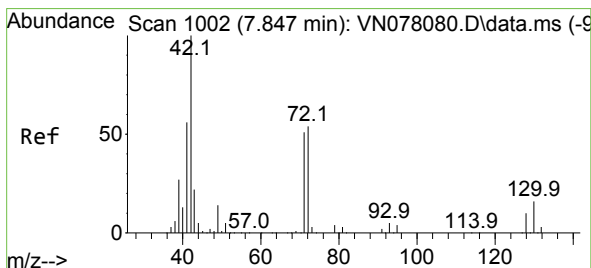
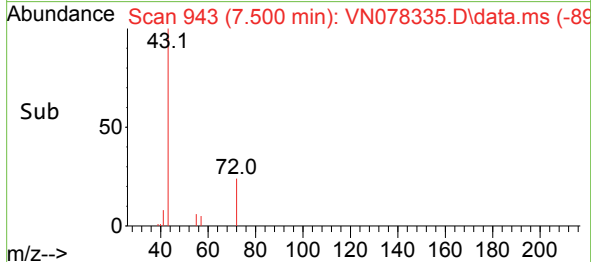
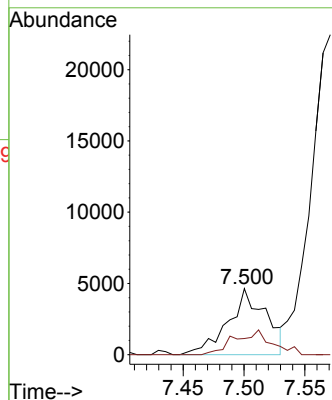
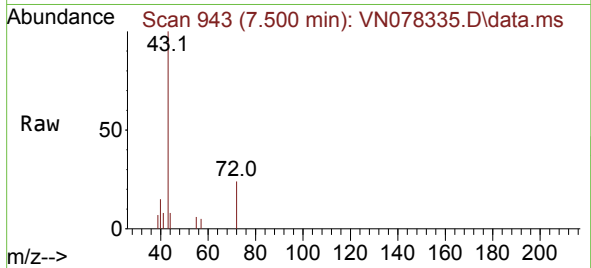




#25
2-Butanone
Concen: 3.676 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

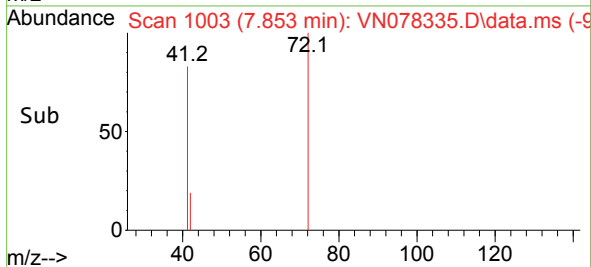
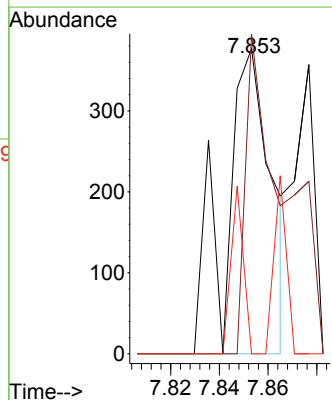
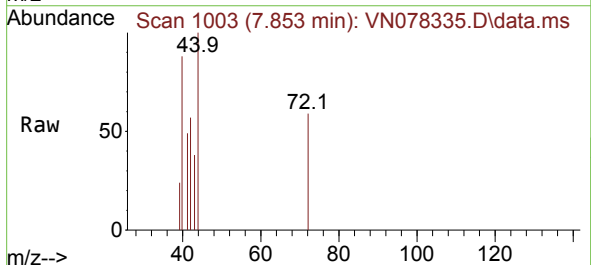
Instrument :
MSVOA_N
ClientSampleId :
WC-7

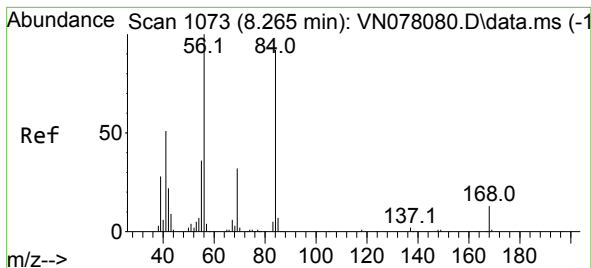
Tgt Ion: 43 Resp: 9988
Ion Ratio Lower Upper
43 100
72 24.4 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.272 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 42 Resp: 494
Ion Ratio Lower Upper
42 100
72 87.7 49.8 74.6#
71 14.8 47.4 71.2#





#31

Cyclohexane

Concen: 1.504 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN078335.D

Acq: 21 Jun 2023 20:23

Instrument :

MSVOA_N

ClientSampleId :

WC-7

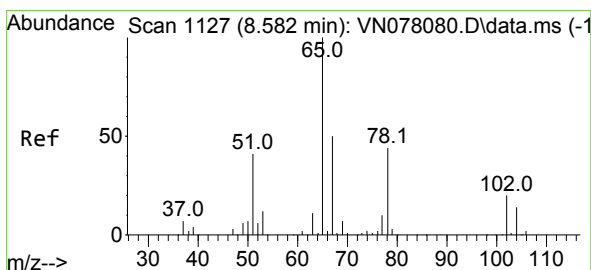
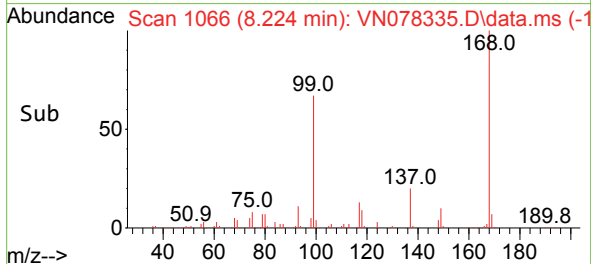
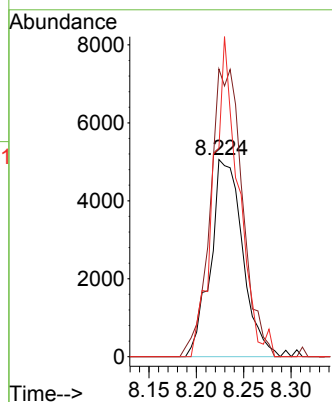
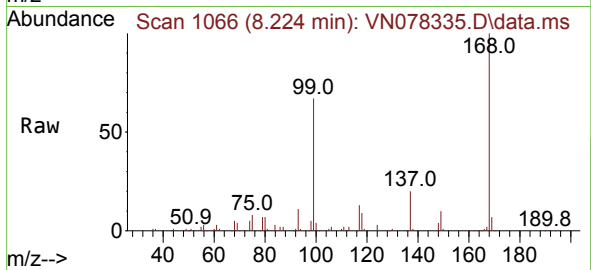
Tgt Ion: 56 Resp: 11847

Ion Ratio Lower Upper

56 100

69 145.9 26.8 40.2#

84 105.6 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 53.517 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN078335.D

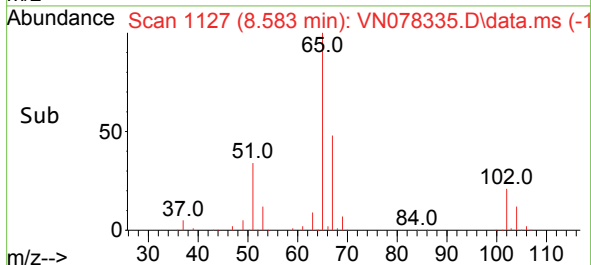
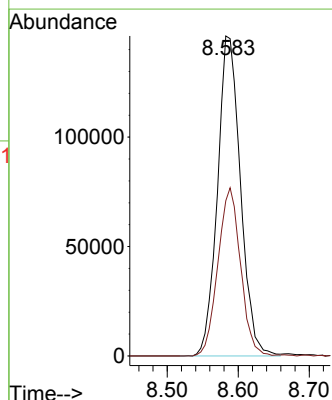
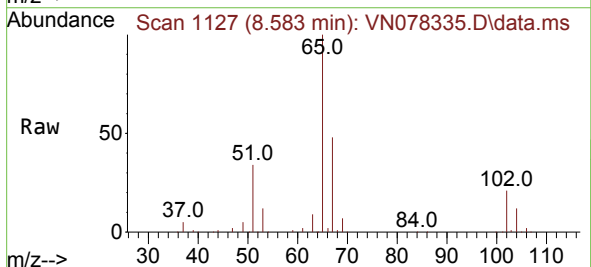
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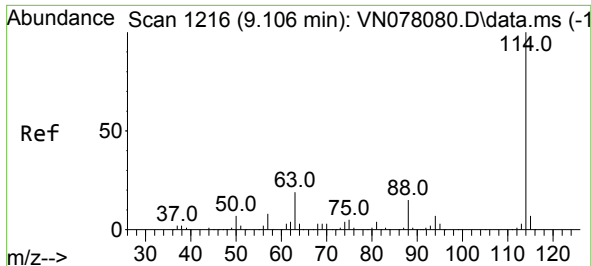
Tgt Ion: 65 Resp: 328551

Ion Ratio Lower Upper

65 100

67 51.6 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: VN078335.D

Acq: 21 Jun 2023 20:23

Instrument :

MSVOA_N

ClientSampleId :

WC-7

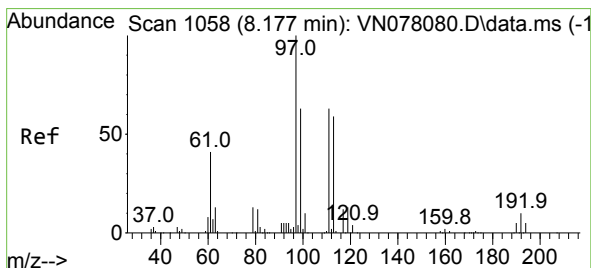
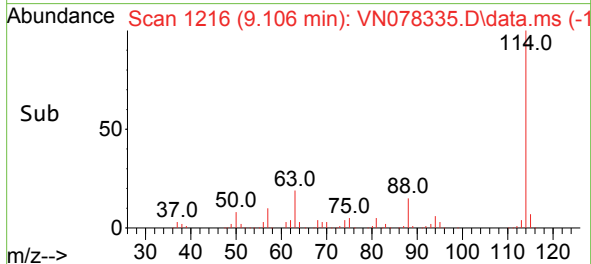
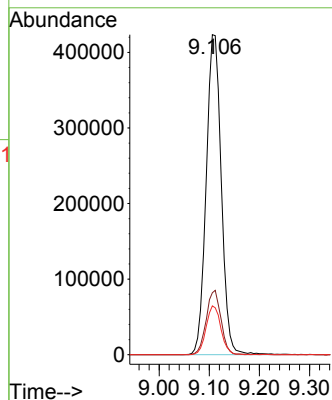
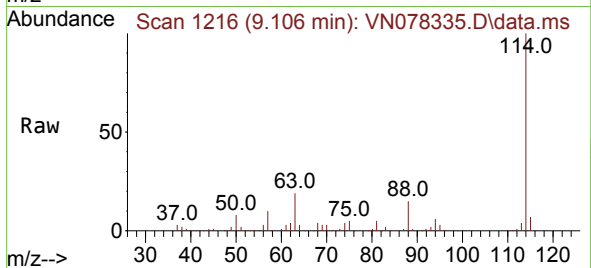
Tgt Ion:114 Resp: 885624

Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

88 15.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 53.684 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078335.D

Acq: 21 Jun 2023 20:23

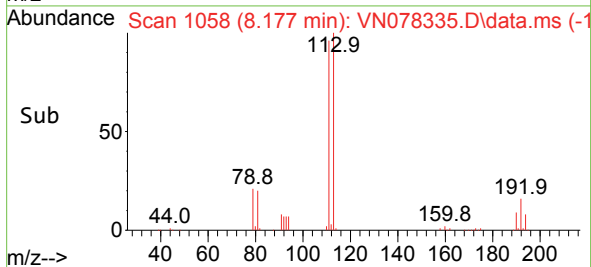
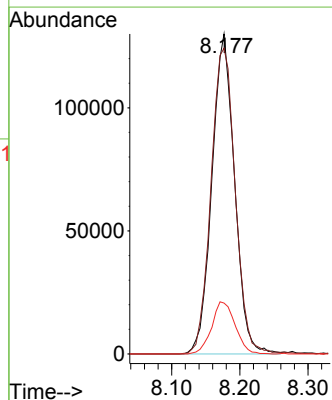
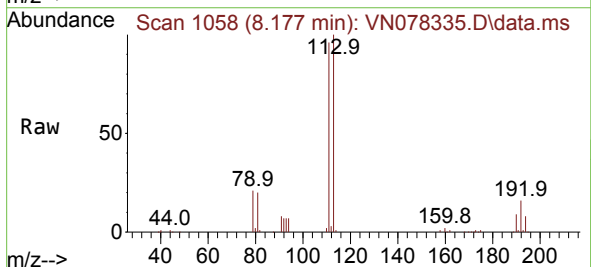
Tgt Ion:113 Resp: 300615

Ion Ratio Lower Upper

113 100

111 102.4 82.6 123.8

192 16.9 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.001 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078335.D

Acq: 21 Jun 2023 20:23

Instrument :

MSVOA_N

ClientSampleId :

WC-7

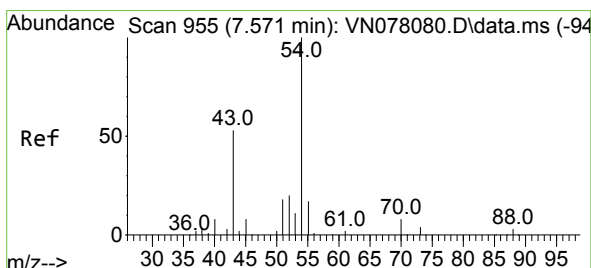
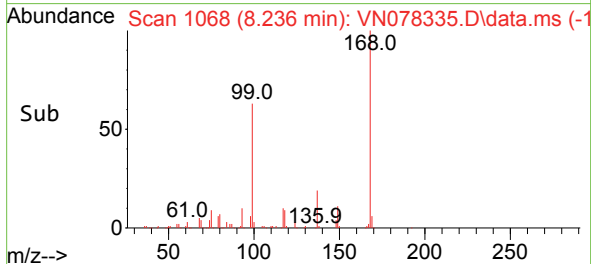
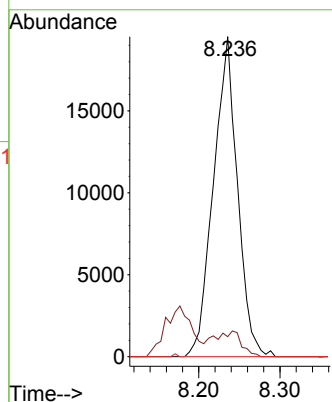
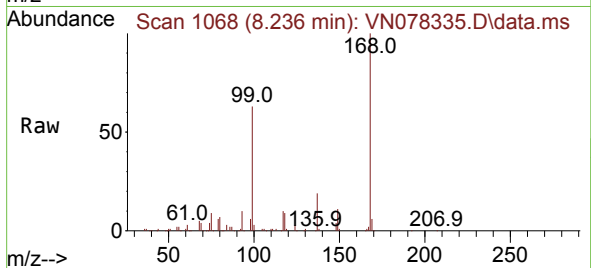
Tgt Ion: 75 Resp: 40169

Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 9.457 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.000 min

Lab File: VN078335.D

Acq: 21 Jun 2023 20:23

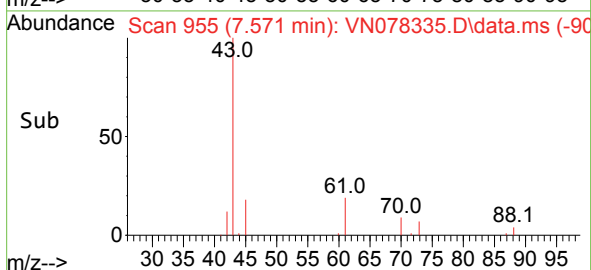
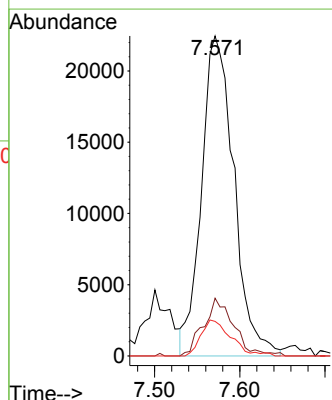
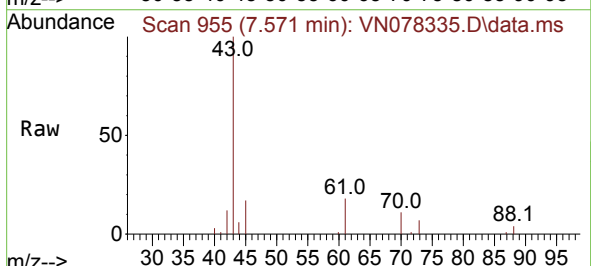
Tgt Ion: 43 Resp: 59338

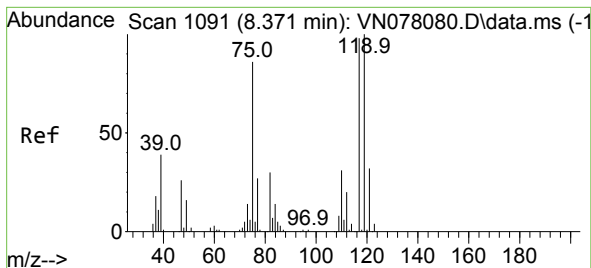
Ion Ratio Lower Upper

43 100

61 17.0 13.2 19.8

70 10.5 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 6.038 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN078335.D

Acq: 21 Jun 2023 20:23

Instrument :

MSVOA_N

ClientSampleId :

WC-7

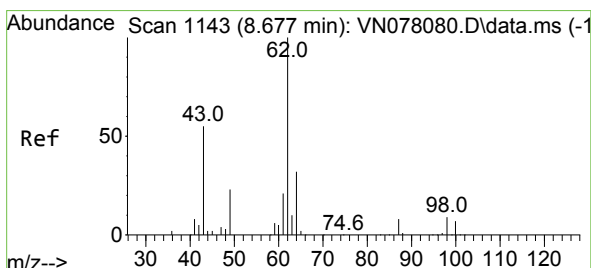
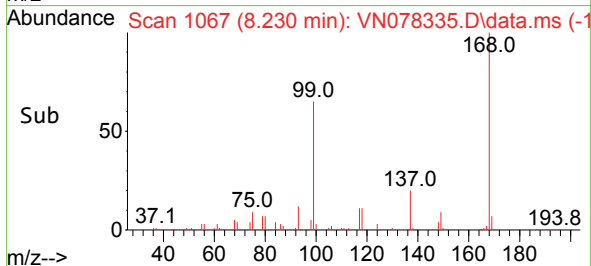
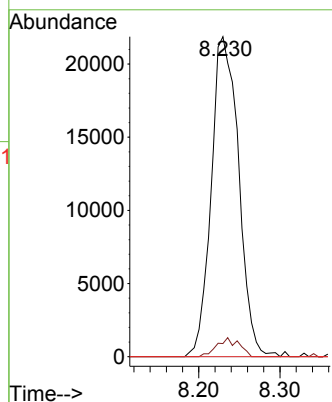
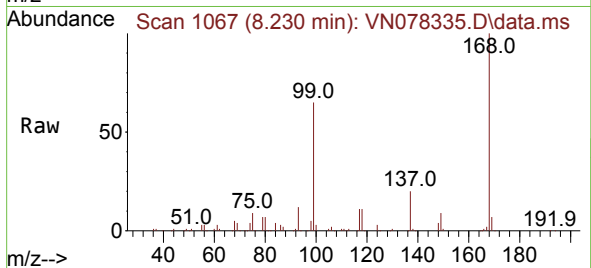
Tgt Ion:117 Resp: 51211

Ion Ratio Lower Upper

117 100

119 4.1 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.367 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN078335.D

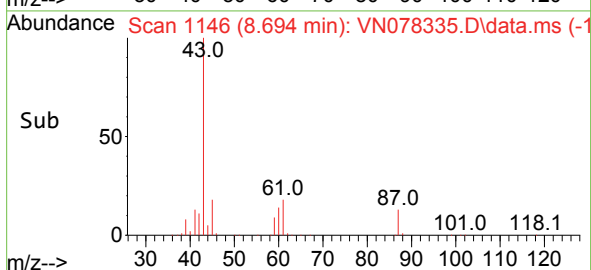
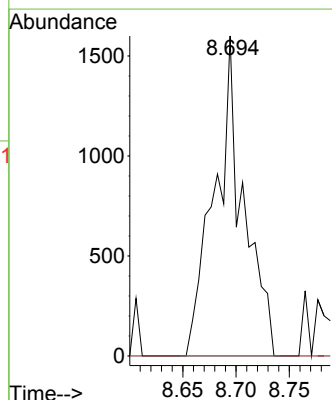
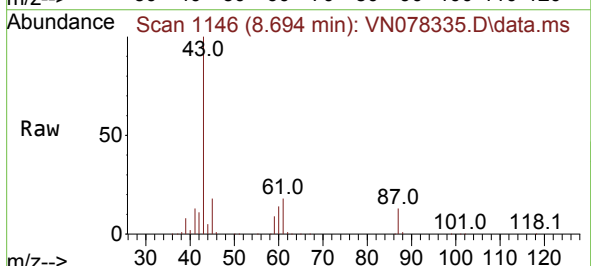
Acq: 21 Jun 2023 20:23

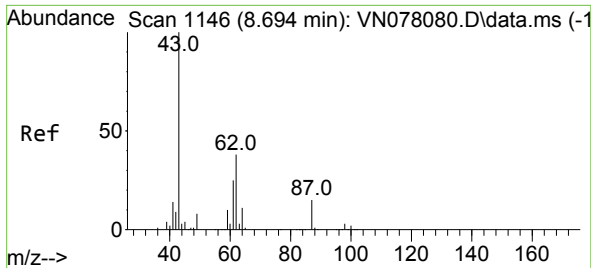
Tgt Ion: 62 Resp: 3020

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

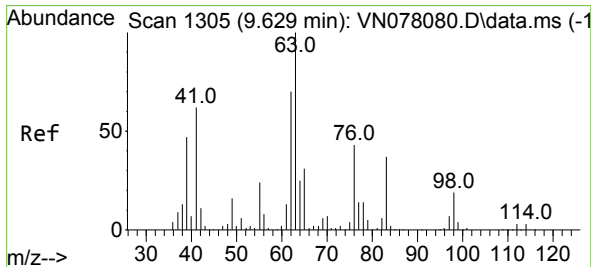
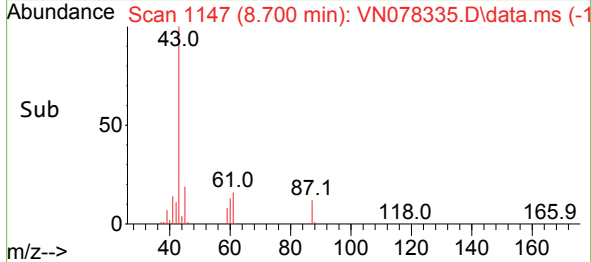
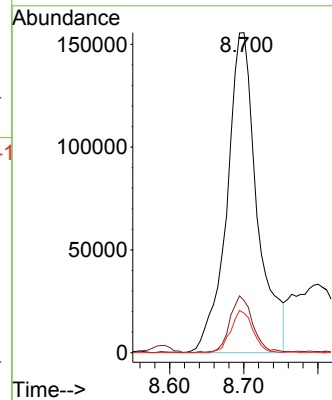
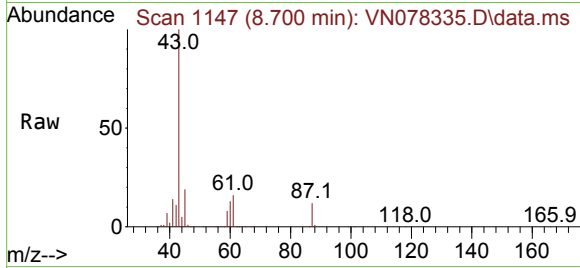




#43
Isopropyl Acetate
Concen: 36.907 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

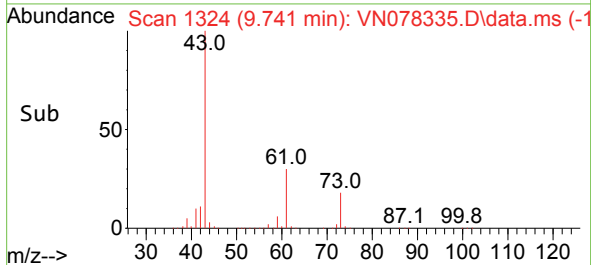
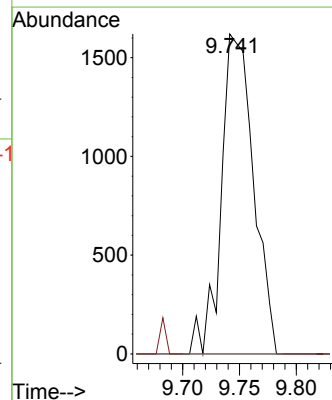
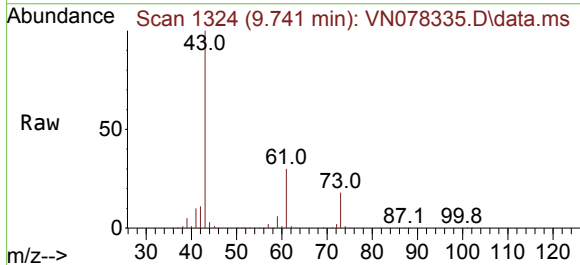
Instrument :
MSVOA_N
ClientSampleId :
WC-7

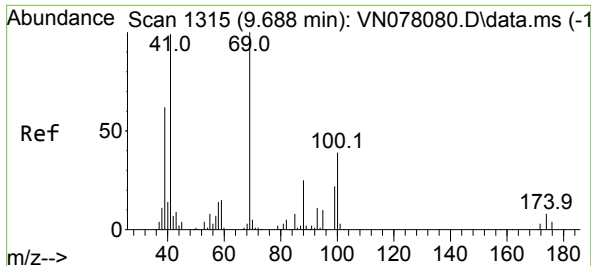
Tgt Ion: 43 Resp: 442889
Ion Ratio Lower Upper
43 100
61 13.1 24.7 37.1#
87 9.6 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.537 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.112 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 63 Resp: 3206
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

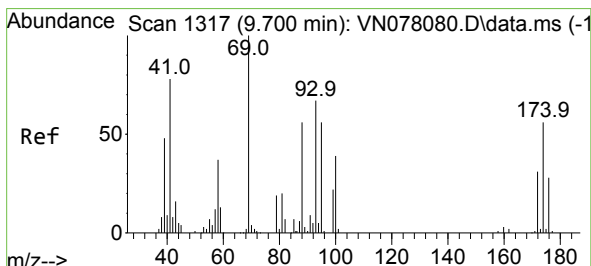
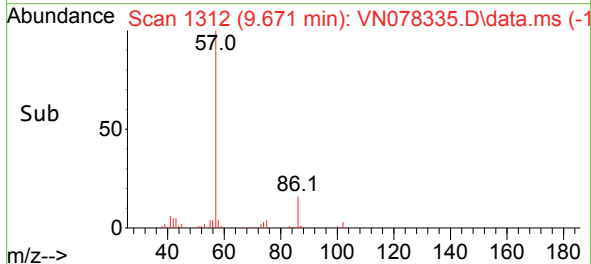
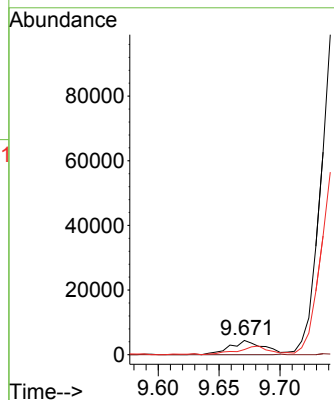
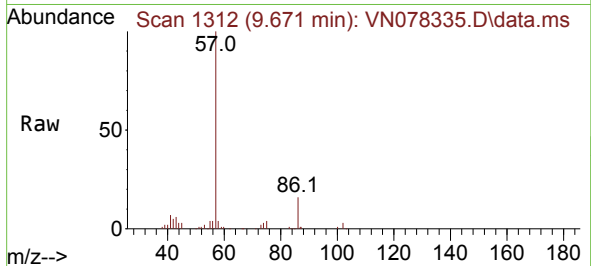




#48
Methyl methacrylate
Concen: 1.675 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

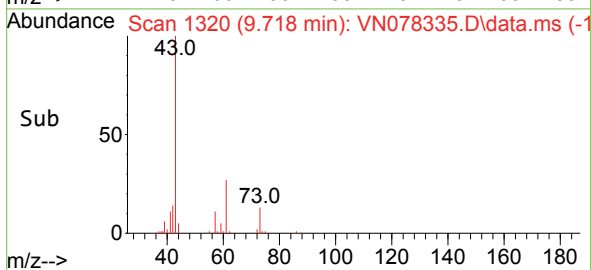
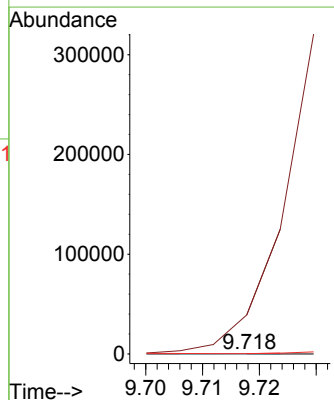
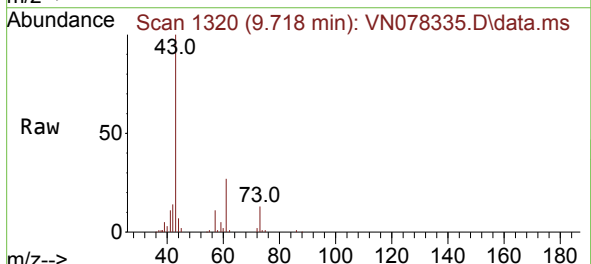
Instrument :
MSVOA_N
ClientSampleId :
WC-7

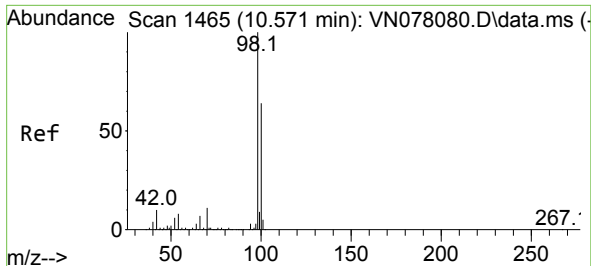
Tgt Ion: 41 Resp: 8437
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 54.7 54.6 81.8



#49
1,4-Dioxane
Concen: 0.624 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.018 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

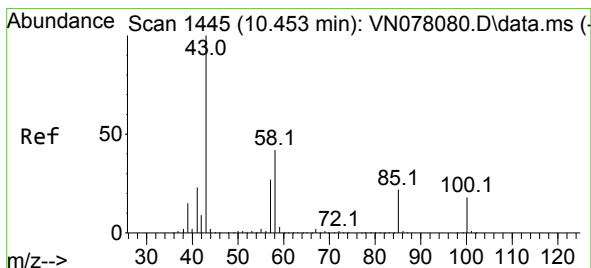
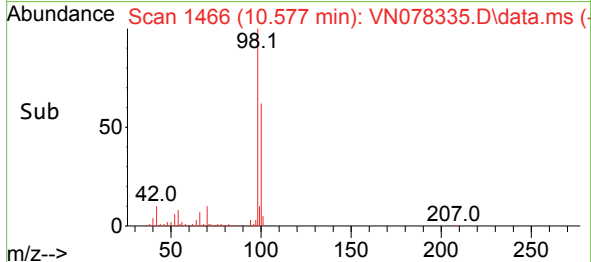
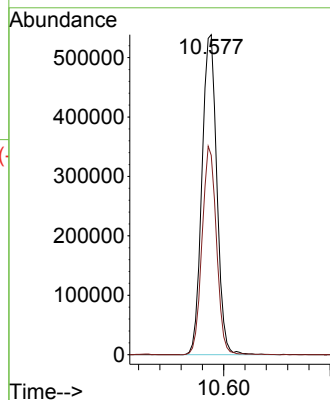
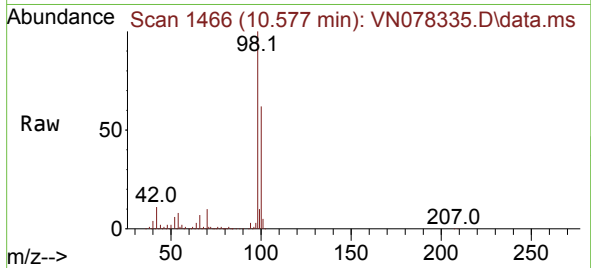




#50
Toluene-d8
Concen: 48.307 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

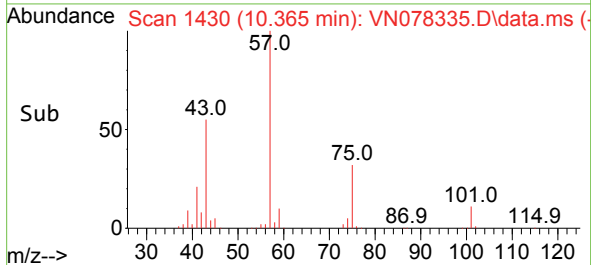
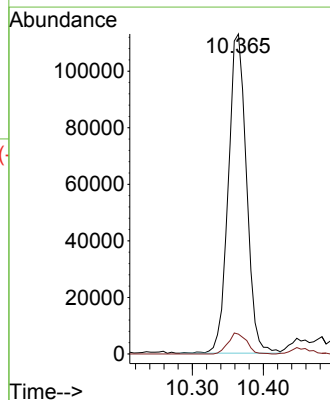
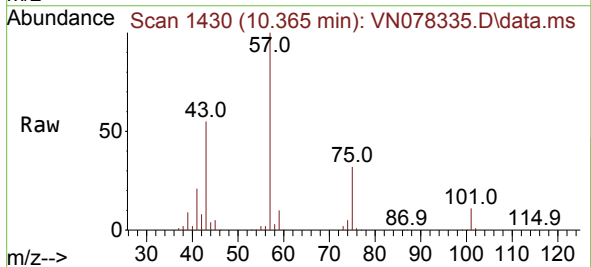
Instrument :
MSVOA_N
ClientSampleId :
WC-7

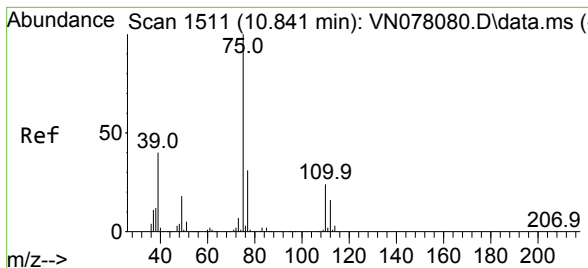
Tgt Ion: 98 Resp: 1042811
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 31.818 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 43 Resp: 201058
Ion Ratio Lower Upper
43 100
58 6.7 36.6 54.8#

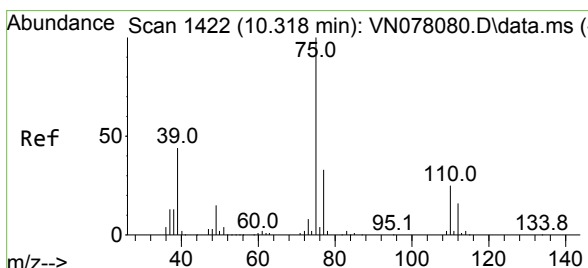
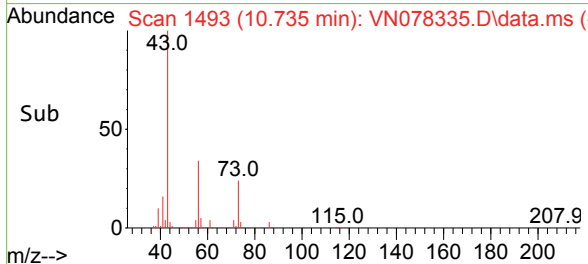
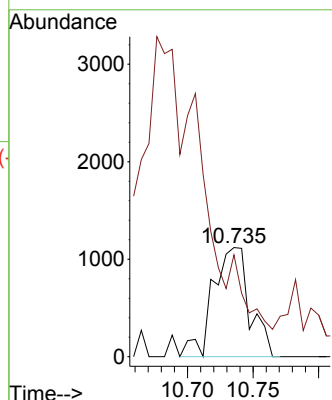
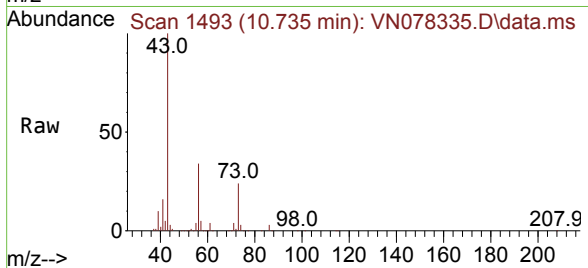




#53
 t-1,3-Dichloropropene
 Concen: 0.257 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.106 min
 Lab File: VN078335.D
 Acq: 21 Jun 2023 20:23

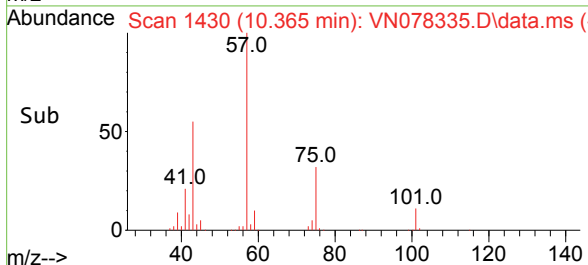
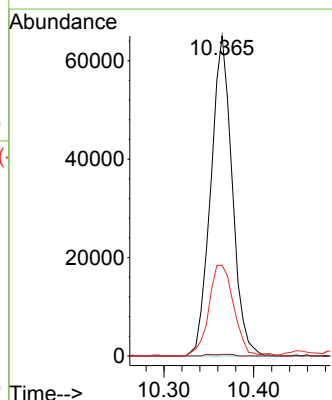
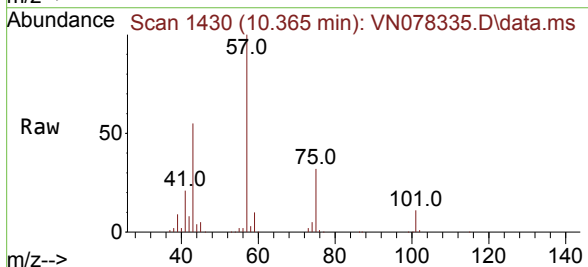
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-7

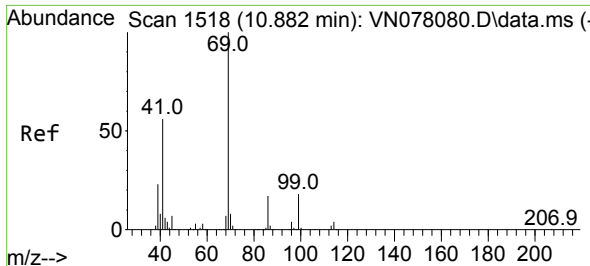
Tgt Ion: 75 Resp: 2185
 Ion Ratio Lower Upper
 75 100
 77 56.1 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 11.446 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN078335.D
 Acq: 21 Jun 2023 20:23

Tgt Ion: 75 Resp: 107564
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 28.3 31.6 47.4#

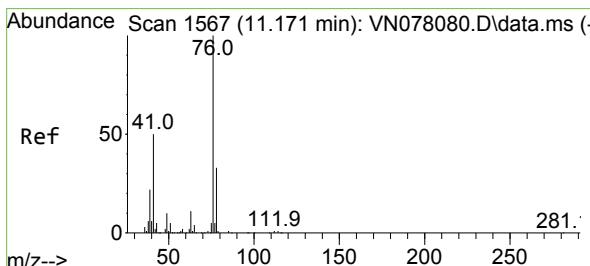
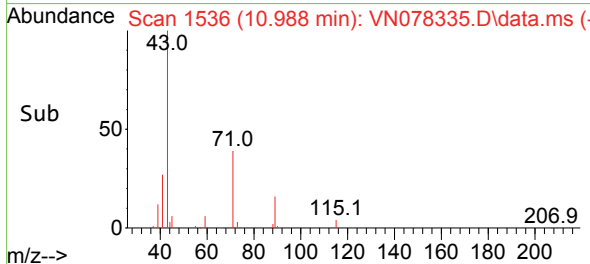
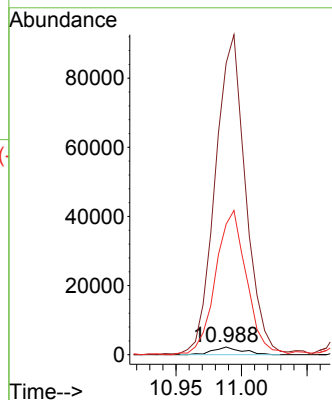
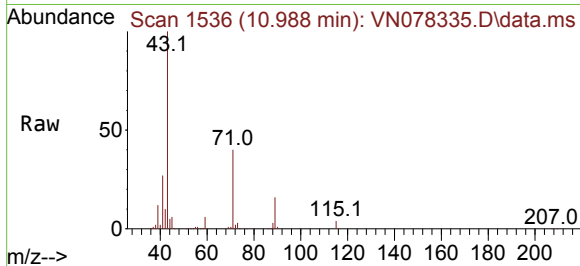




#56
Ethyl methacrylate
Concen: 0.414 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

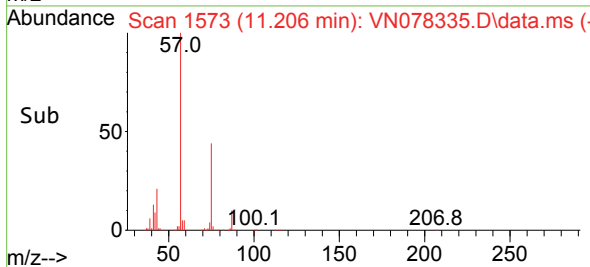
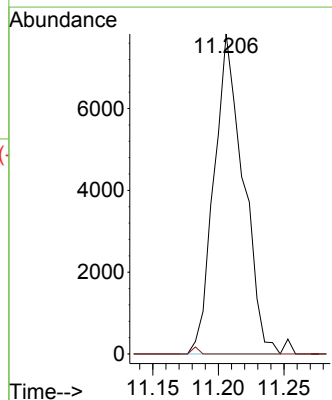
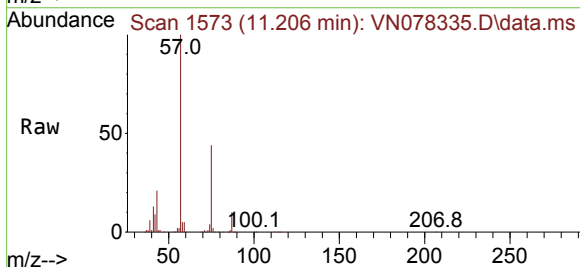
Instrument :
MSVOA_N
ClientSampleId :
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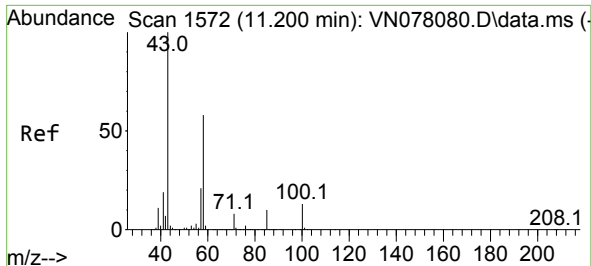
Tgt Ion: 69 Resp: 3450
Ion Ratio Lower Upper
69 100
41 4326.1 39.6 59.4#
39 1983.5 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.254 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 76 Resp: 12125
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

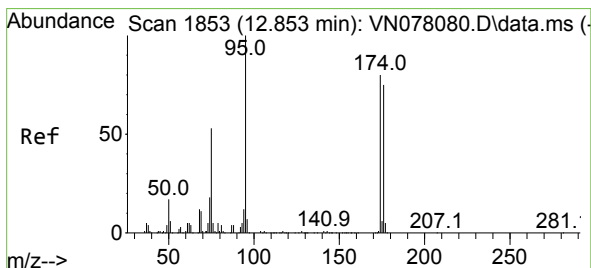
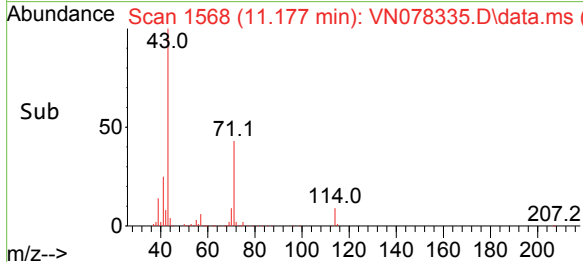
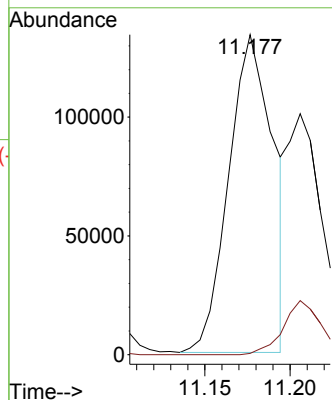
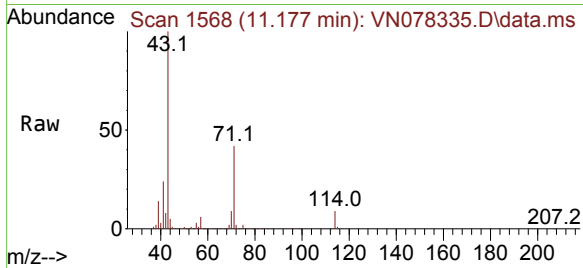




#59
2-Hexanone
Concen: 55.000 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

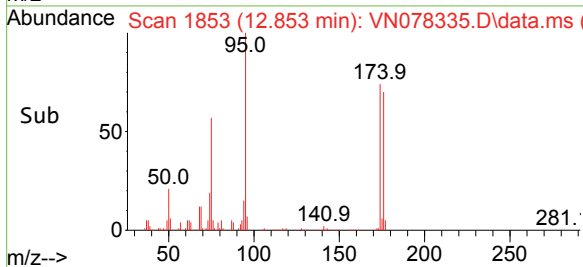
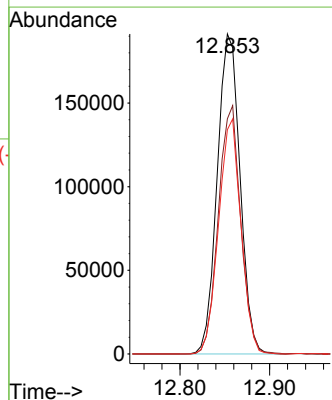
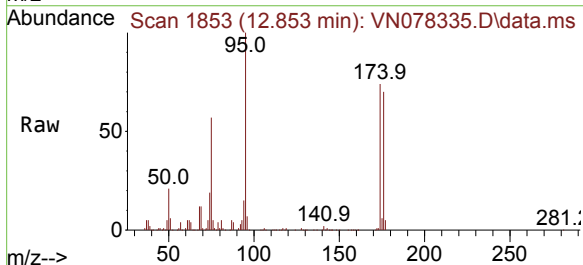
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ClientSampleId :
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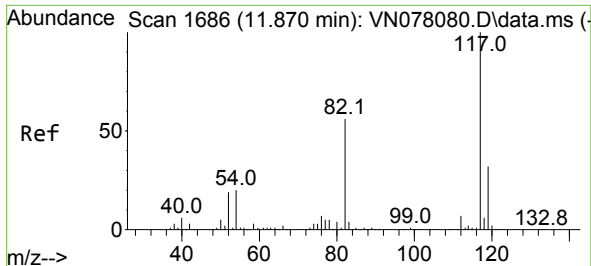
Tgt Ion: 43 Resp: 241994
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.287 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion: 95 Resp: 337475
Ion Ratio Lower Upper
95 100
174 76.2 0.0 143.8
176 72.1 0.0 135.8

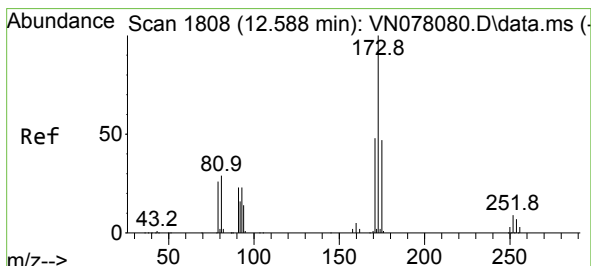
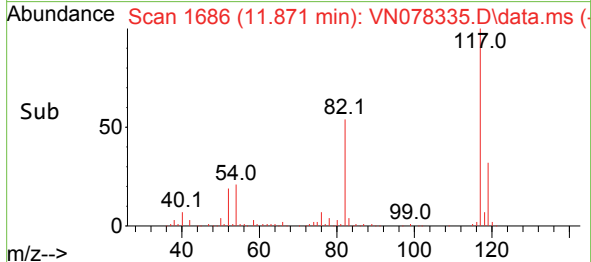
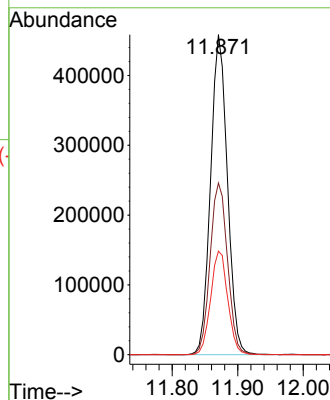
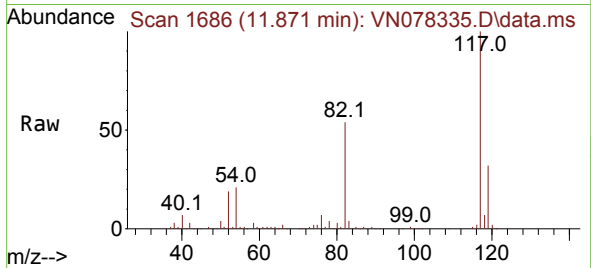




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

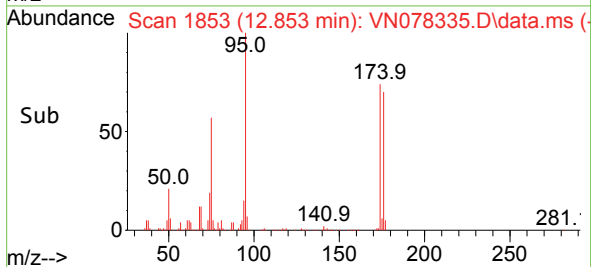
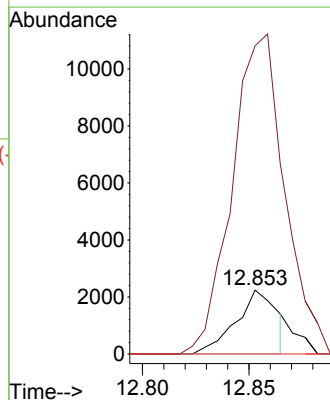
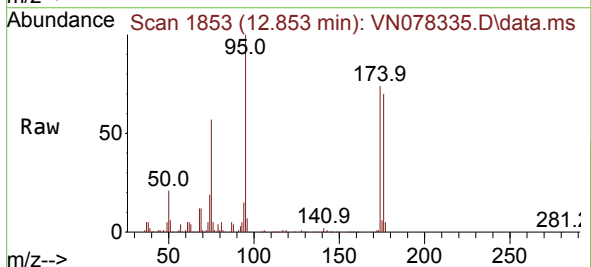
Instrument :
MSVOA_N
ClientSampleId :
WC-7

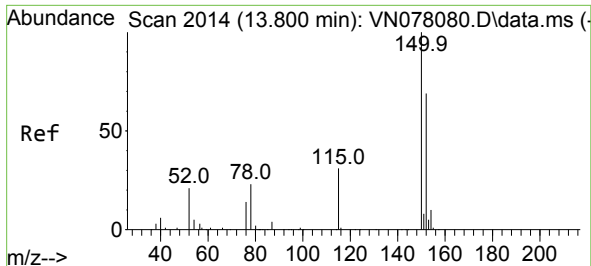
Tgt Ion:117 Resp: 816968
Ion Ratio Lower Upper
117 100
82 53.7 44.0 66.0
119 32.3 25.6 38.4



#71
Bromoform
Concen: 0.720 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.265 min
Lab File: VN078335.D
Acq: 21 Jun 2023 20:23

Tgt Ion:173 Resp: 2988
Ion Ratio Lower Upper
173 100
175 561.5 24.3 73.0#
254 0.0 0.0 0.0

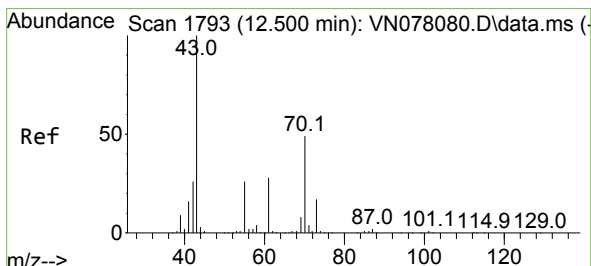
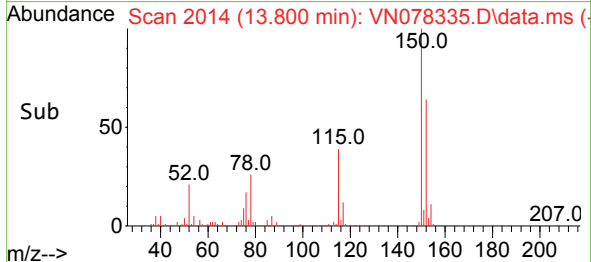
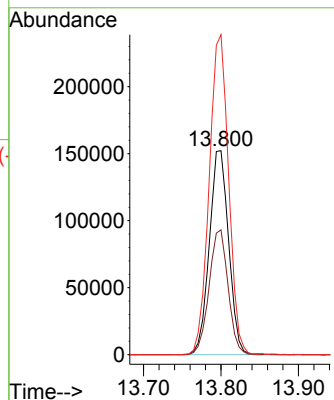
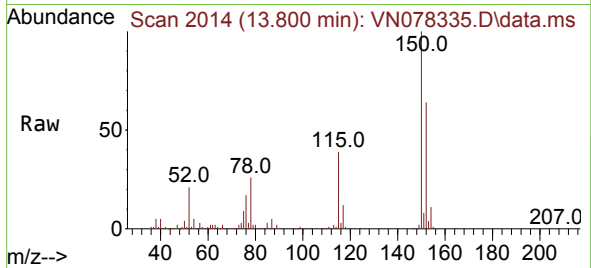




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN078335.D
 Acq: 21 Jun 2023 20:23

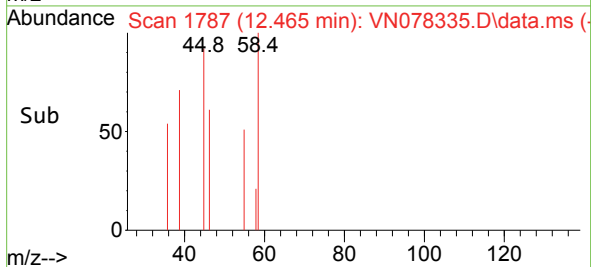
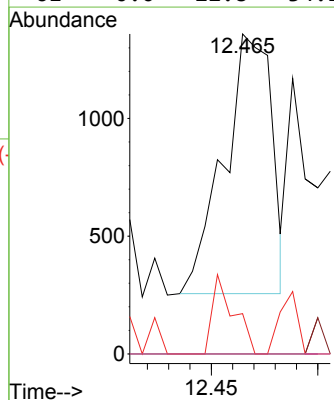
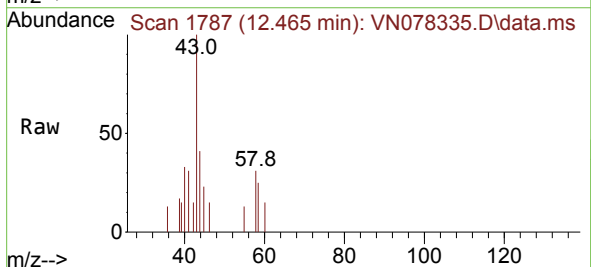
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-7

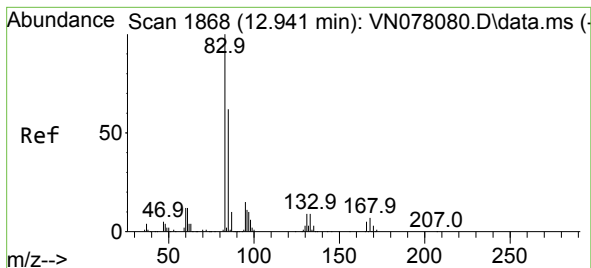
Tgt Ion:152 Resp: 263956
 Ion Ratio Lower Upper
 152 100
 115 60.1 32.3 96.8
 150 157.1 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.209 ug/l
 RT: 12.465 min Scan# 1787
 Delta R.T. -0.035 min
 Lab File: VN078335.D
 Acq: 21 Jun 2023 20:23

Tgt Ion: 43 Resp: 1721
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 13.7 21.4 32.0#
 61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078335.D

Acq: 21 Jun 2023 20:23

Instrument :

MSVOA_N

ClientSampleId :

WC-7

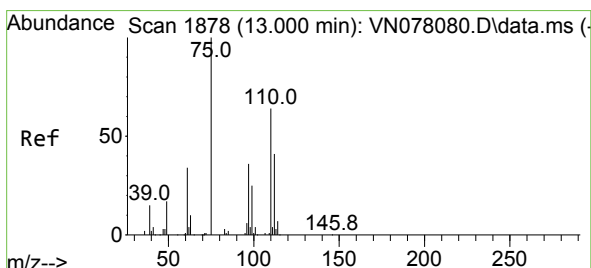
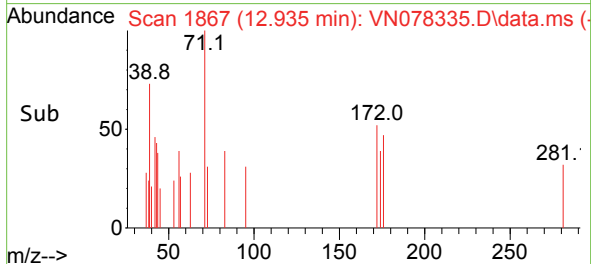
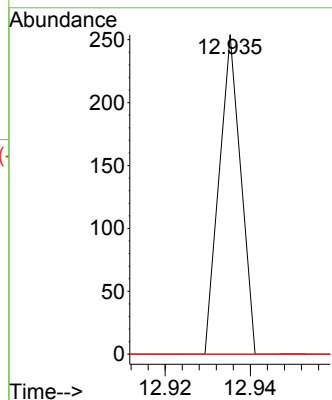
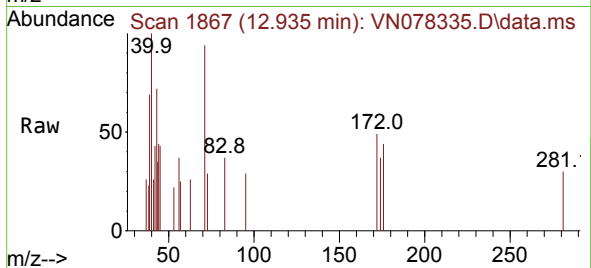
Tgt Ion: 83 Resp: 90

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 29.247 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078335.D

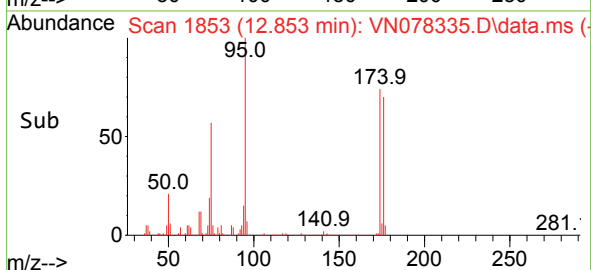
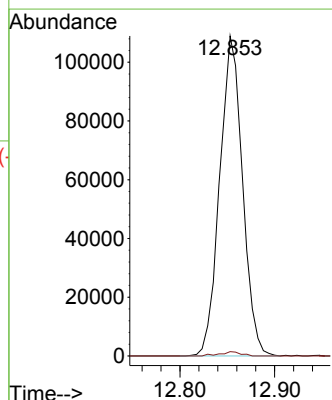
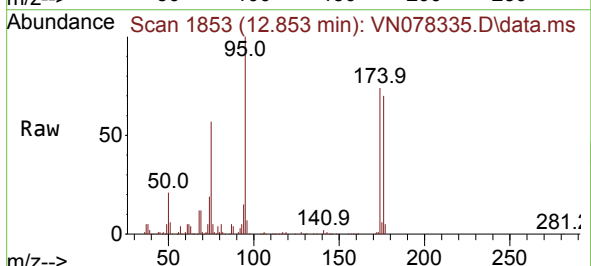
Acq: 21 Jun 2023 20:23

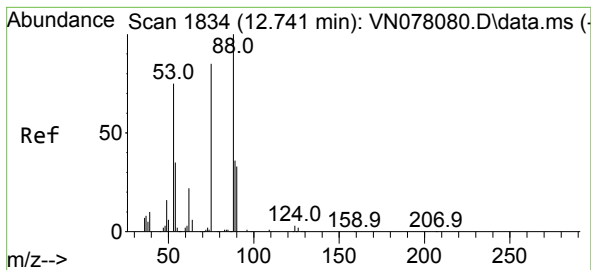
Tgt Ion: 75 Resp: 182500

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.855 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078335.D
 Acq: 21 Jun 2023 20:23

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-7

Tgt Ion: 75 Resp: 182500
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

