

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078326.D
 Acq On : 21 Jun 2023 16:46
 Operator : JC\MD
 Sample : 03336-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-5

Quant Time: Jun 22 04:51:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

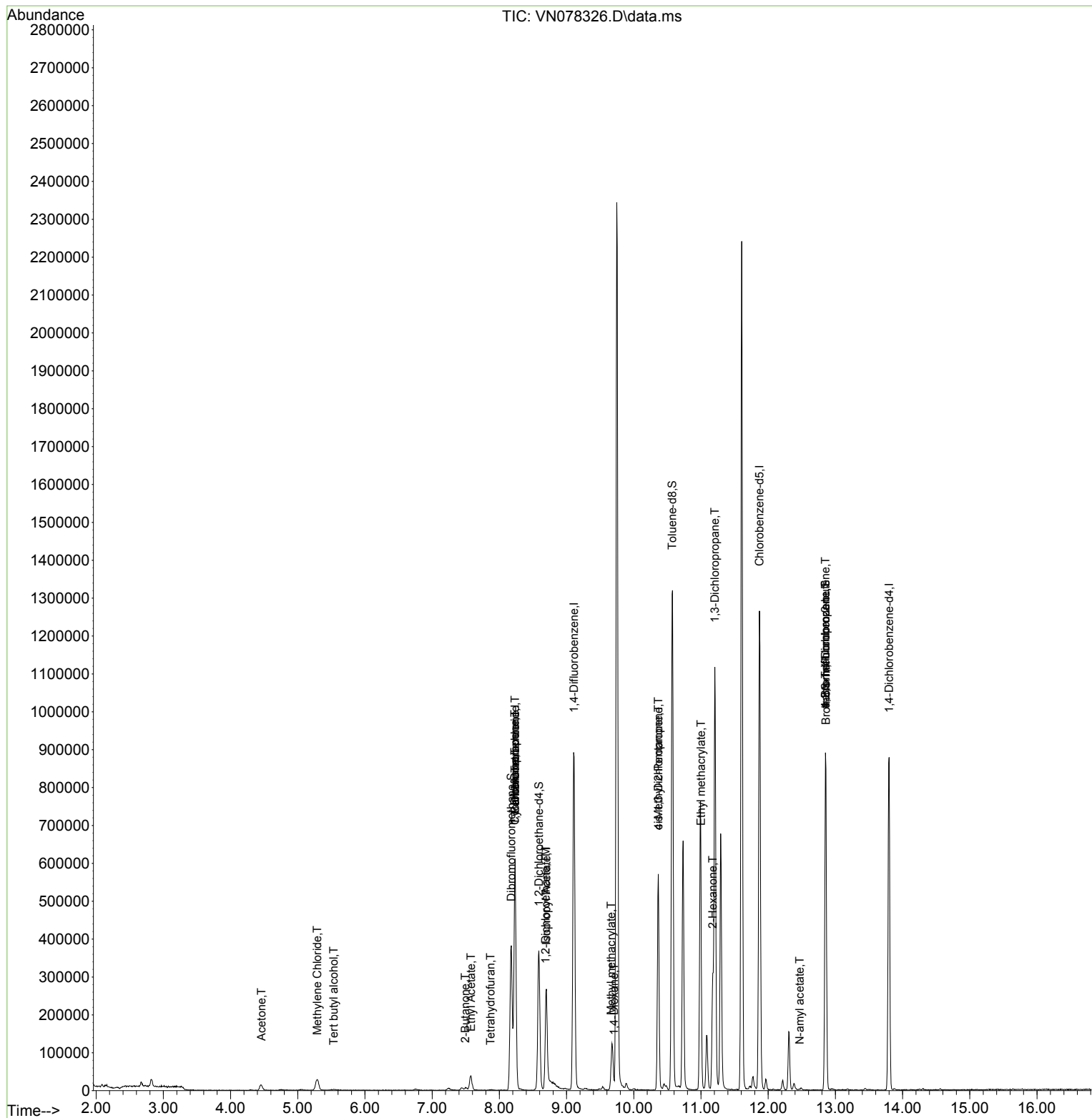
Internal Standards						
1) Pentafluorobenzene	8.235	168	423335	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	810175	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	761113	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	243356	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	304975	54.032	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.060%			
35) Dibromofluoromethane	8.176	113	280196	54.698	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.400%			
50) Toluene-d8	10.570	98	960081	48.616	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.240%			
62) 4-Bromofluorobenzene	12.853	95	316205	51.505	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.020%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1541	Below Cal	#	78
11) Tert butyl alcohol	5.535	59	2549	3.271	ug/l #	72
16) Acetone	4.459	43	26409	16.255	ug/l	90
20) Methylene Chloride	5.288	84	25386	4.728	ug/l	91
25) 2-Butanone	7.494	43	10588	4.238	ug/l #	79
29) Tetrahydrofuran	7.871	42	701	0.420	ug/l #	35
31) Cyclohexane	8.229	56	9888	1.366	ug/l #	45
36) 1,1-Dichloropropene	8.229	75	35160	4.785	ug/l #	48
37) Ethyl Acetate	7.577	43	55502	9.669	ug/l	98
38) Carbon Tetrachloride	8.235	117	47175	6.080	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	2206	0.293	ug/l #	73
43) Isopropyl Acetate	8.700	43	340775	31.042	ug/l #	77
48) Methyl methacrylate	9.665	41	7166	1.556	ug/l #	33
49) 1,4-Dioxane	9.706	88	54	0.558	ug/l #	30
51) 4-Methyl-2-Pentanone	10.365	43	198077	34.265	ug/l #	42
54) cis-1,3-Dichloropropene	10.365	75	107217	12.472	ug/l #	66
56) Ethyl methacrylate	11.000	69	4027	0.528	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	10752	1.216	ug/l #	42
59) 2-Hexanone	11.176	43	236895	58.855	ug/l #	19
71) Bromoform	12.859	173	2944	0.761	ug/l #	1
74) N-amyl acetate	12.470	43	1632	0.215	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.941	83	64	Below Cal	#	53
76) 1,2,3-Trichloropropane	12.853	75	168021	29.206	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	168021	89.729	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :

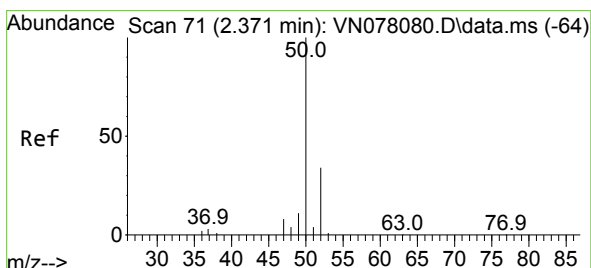
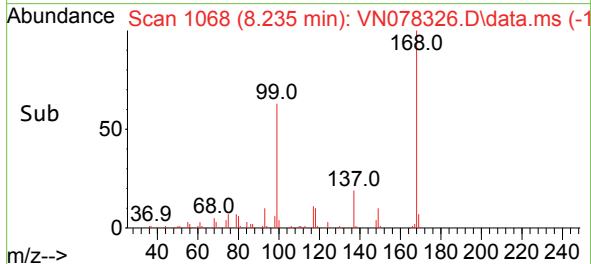
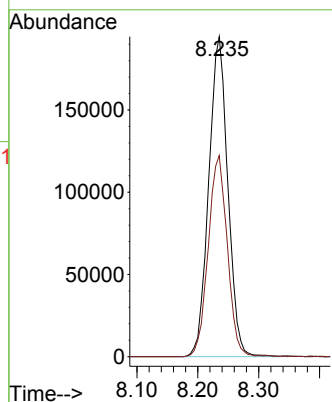
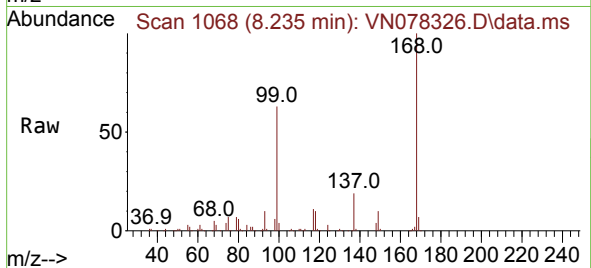
WC-5

Tgt Ion:168 Resp: 423335

Ion Ratio Lower Upper

168 100

99 62.9 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN078326.D

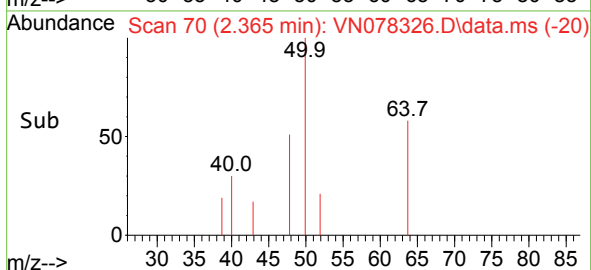
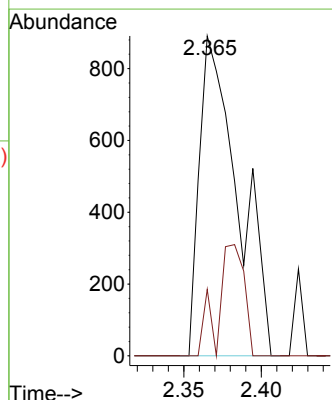
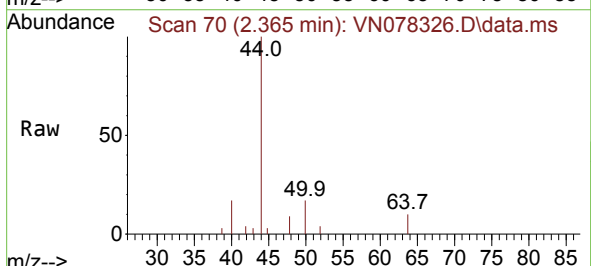
Acq: 21 Jun 2023 16:46

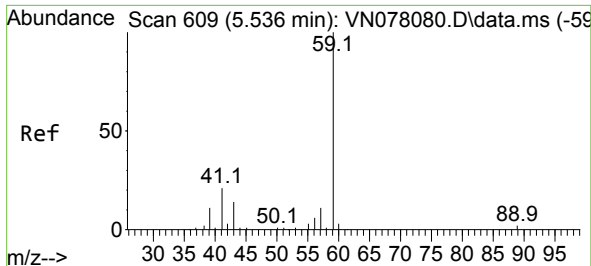
Tgt Ion: 50 Resp: 1541

Ion Ratio Lower Upper

50 100

52 20.8 26.5 39.7#

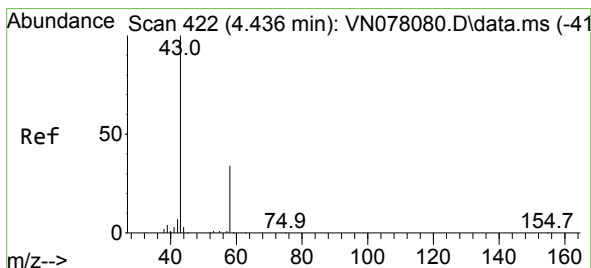
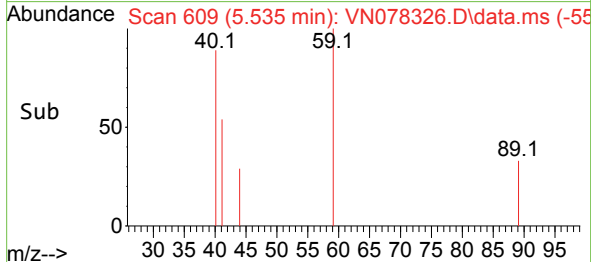
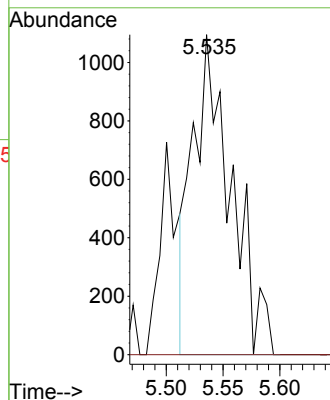
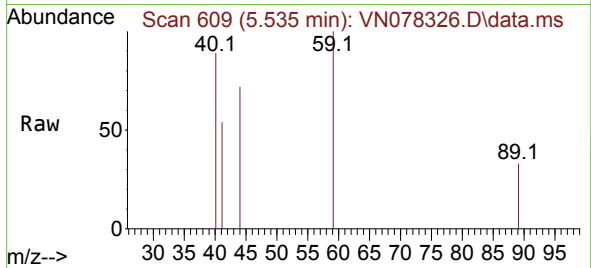




#11
Tert butyl alcohol
Concen: 3.271 ug/l
RT: 5.535 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

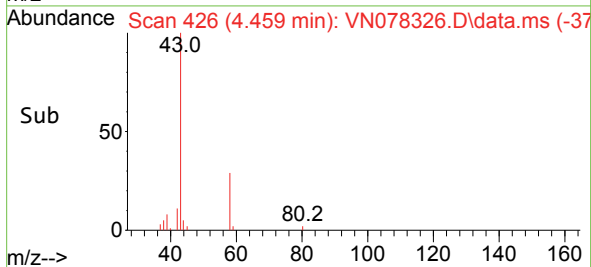
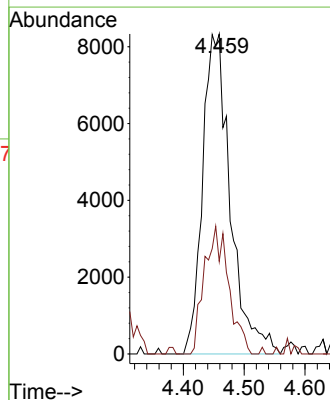
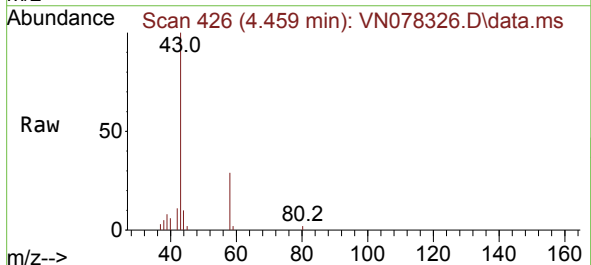
Instrument :
MSVOA_N
ClientSampleId :
WC-5

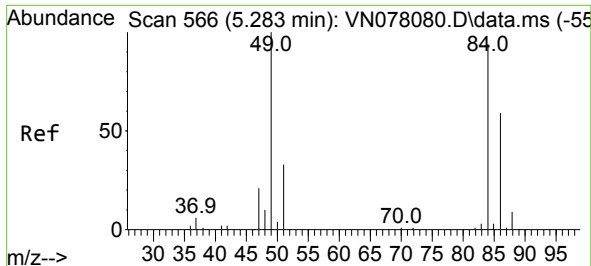
Tgt Ion: 59 Resp: 2549
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 16.255 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.023 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion: 43 Resp: 26409
Ion Ratio Lower Upper
43 100
58 28.9 28.0 42.0

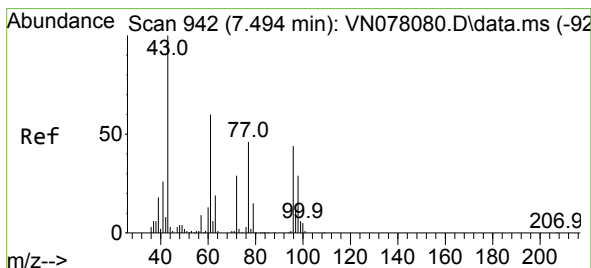
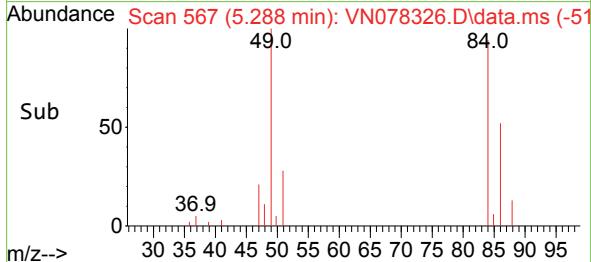
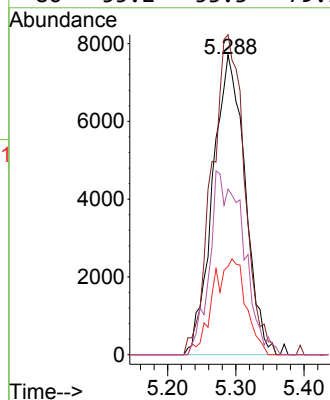
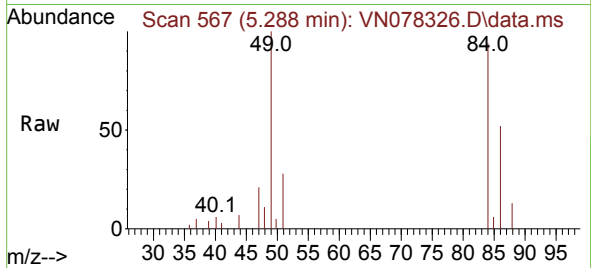




#20
Methylene Chloride
Concen: 4.728 ug/l
RT: 5.288 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

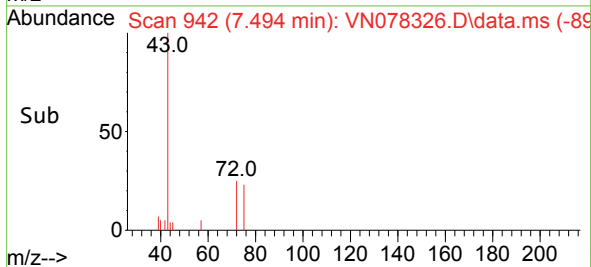
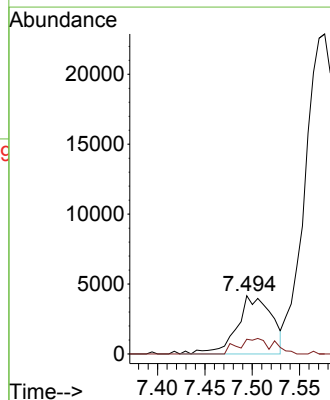
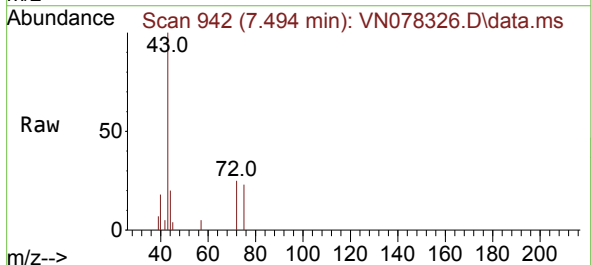
Instrument :
MSVOA_N
ClientSampleId :
WC-5

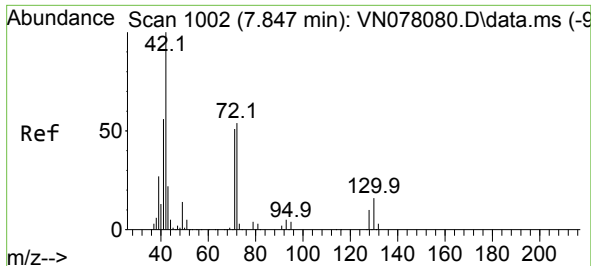
Tgt Ion:	84	Resp:	25386
Ion	Ratio	Lower	Upper
84	100		
49	106.7	79.7	119.5
51	29.4	25.2	37.8
86	55.2	53.3	79.9



#25
2-Butanone
Concen: 4.238 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion:	43	Resp:	10588
Ion	Ratio	Lower	Upper
43	100		
72	25.1	30.2	45.2#





#29

Tetrahydrofuran

Concen: 0.420 ug/l

RT: 7.871 min Scan# 1006

Delta R.T. 0.023 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :

WC-5

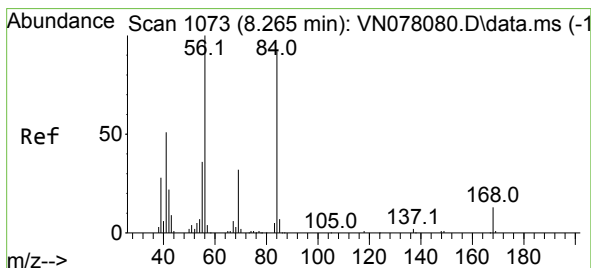
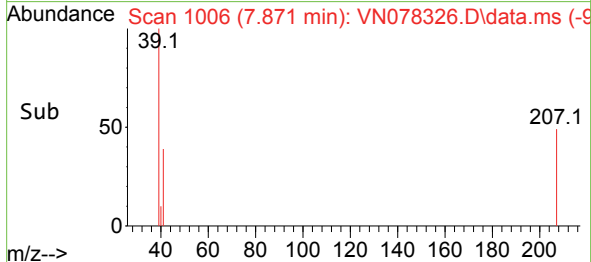
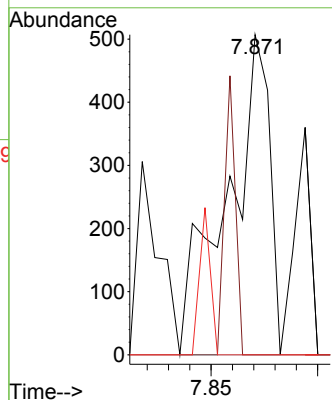
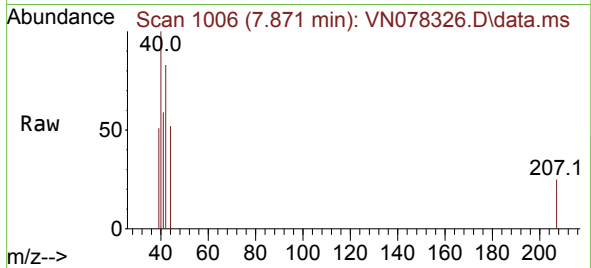
Tgt Ion: 42 Resp: 701

Ion Ratio Lower Upper

42 100

72 22.3 49.8 74.6#

71 0.0 47.4 71.2#



#31

Cyclohexane

Concen: 1.366 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

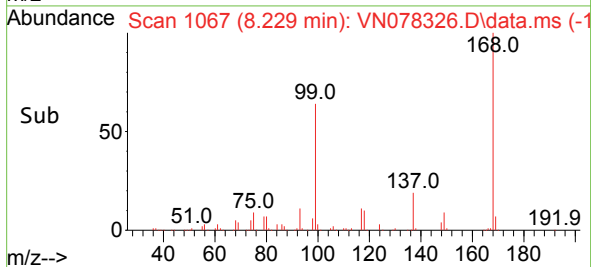
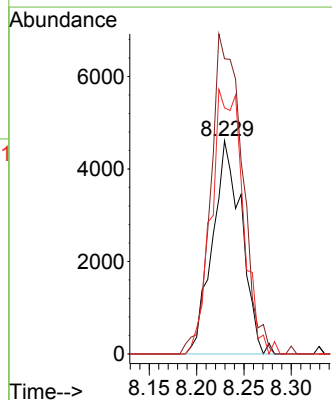
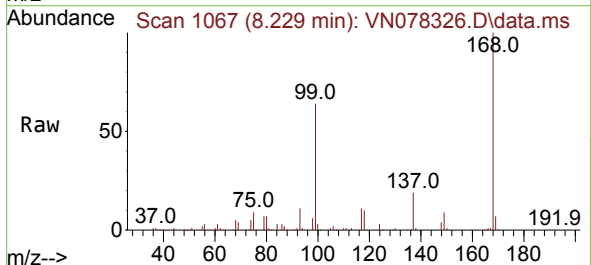
Tgt Ion: 56 Resp: 9888

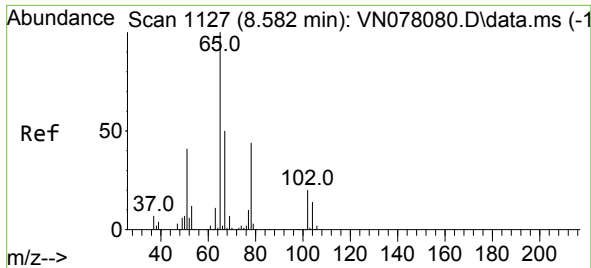
Ion Ratio Lower Upper

56 100

69 138.5 26.8 40.2#

84 115.5 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.032 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Instrument :

MSVOA_N

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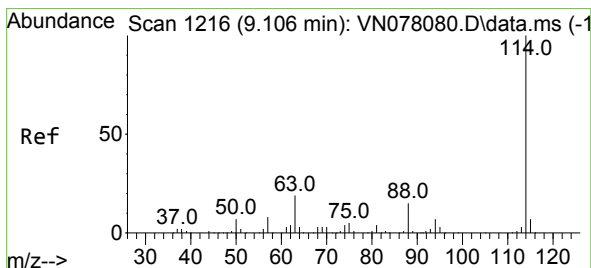
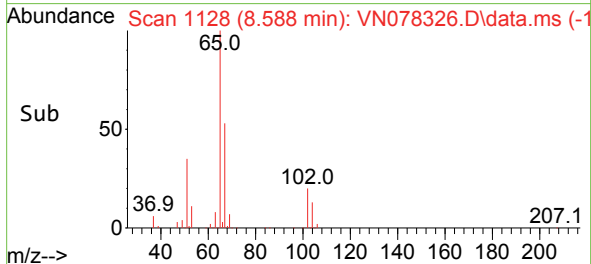
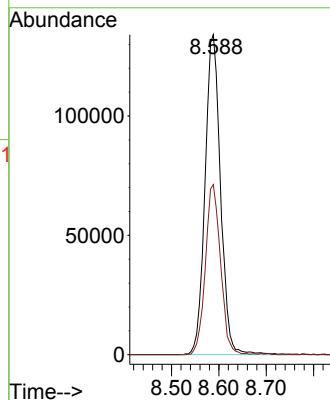
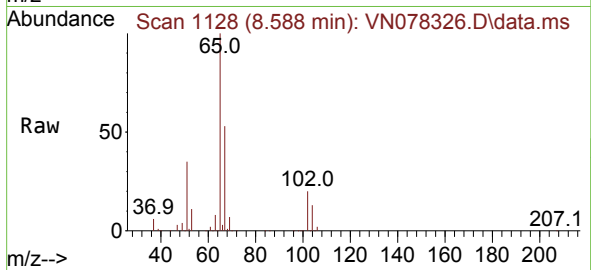
WC-5

Tgt Ion: 65 Resp: 304975

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

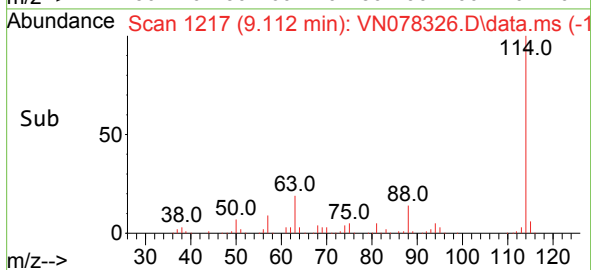
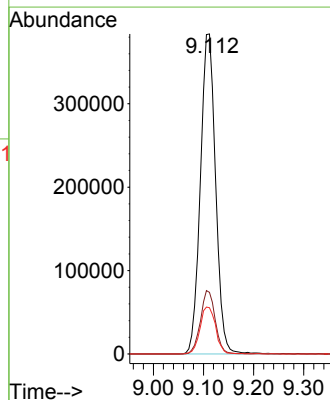
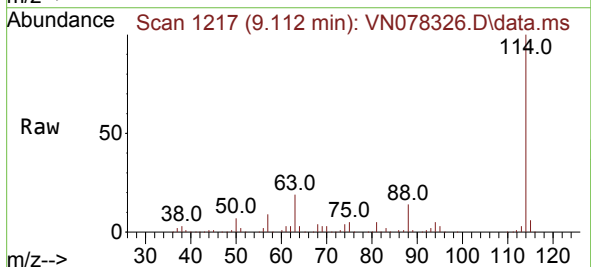
Tgt Ion: 114 Resp: 810175

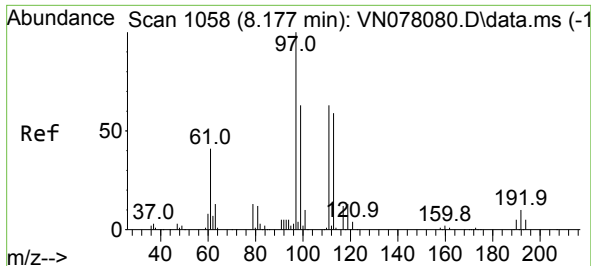
Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

88 14.5 0.0 30.6

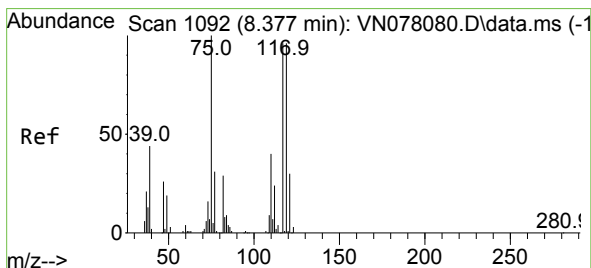
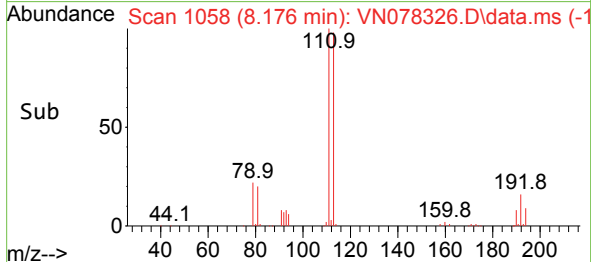
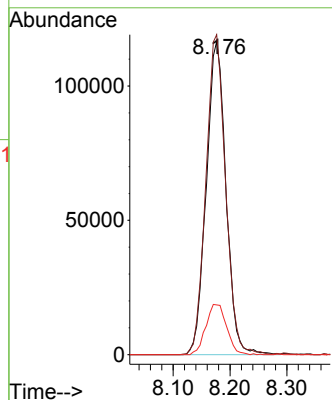
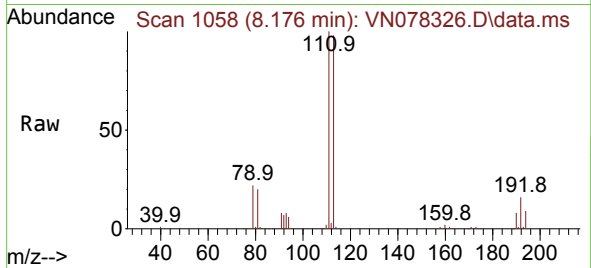




#35
Dibromofluoromethane
Concen: 54.698 ug/l
RT: 8.176 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

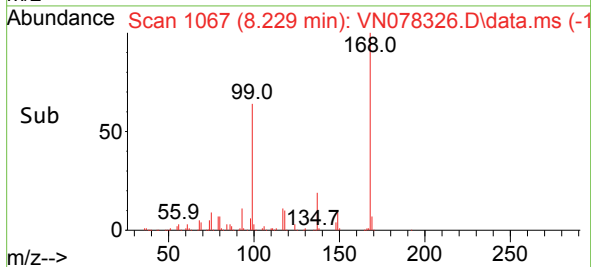
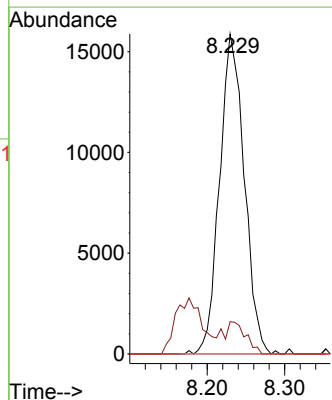
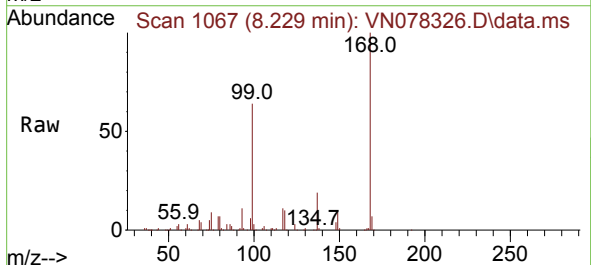
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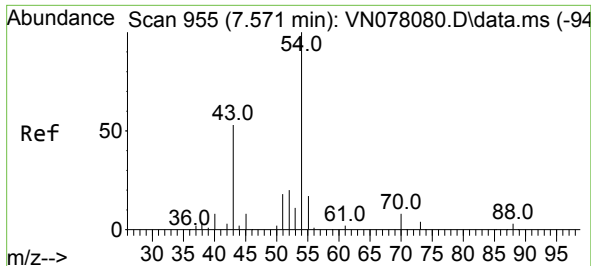
Tgt Ion:113 Resp: 280196
Ion Ratio Lower Upper
113 100
111 102.2 82.6 123.8
192 16.9 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.785 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion: 75 Resp: 35160
Ion Ratio Lower Upper
75 100
110 9.1 19.1 57.3#
77 0.0 25.0 37.4#

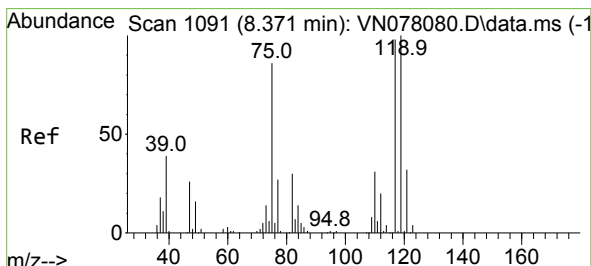
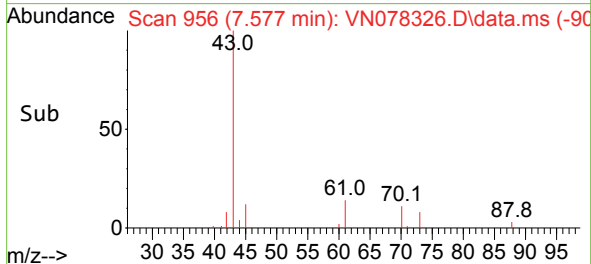
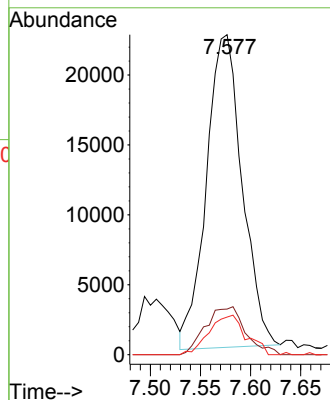
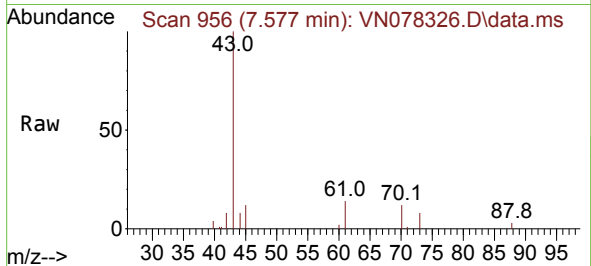




#37
Ethyl Acetate
Concen: 9.669 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

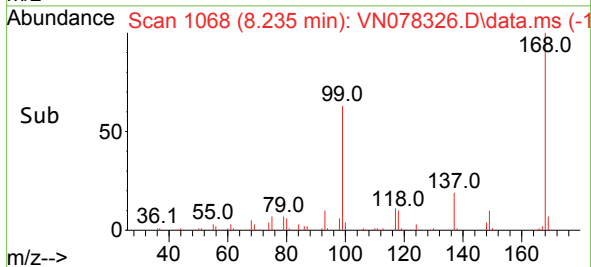
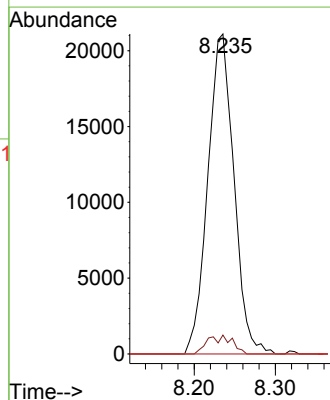
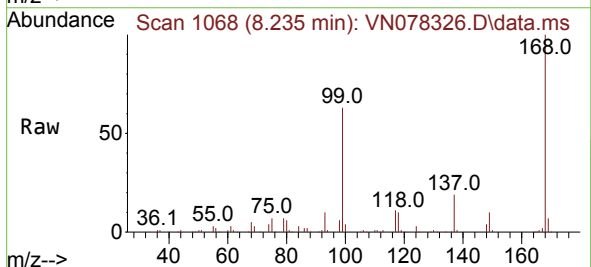
Instrument :
MSVOA_N
ClientSampleId :
WC-5

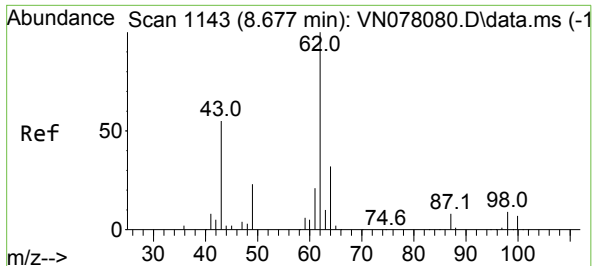
Tgt Ion: 43 Resp: 55502
Ion Ratio Lower Upper
43 100
61 17.0 13.2 19.8
70 13.0 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.080 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion: 117 Resp: 47175
Ion Ratio Lower Upper
117 100
119 5.9 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.293 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.012 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :

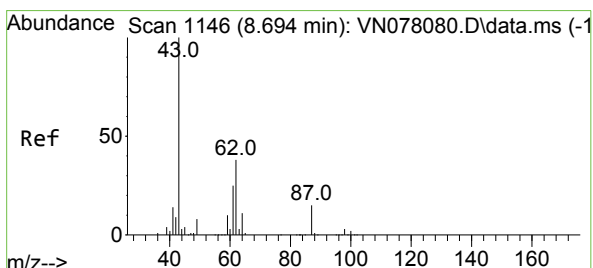
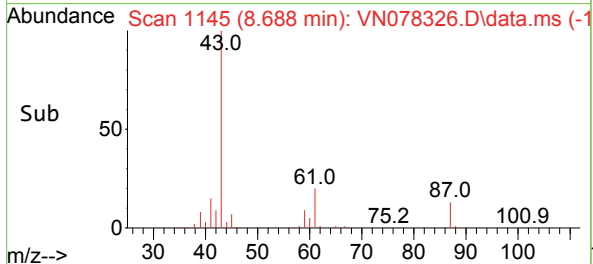
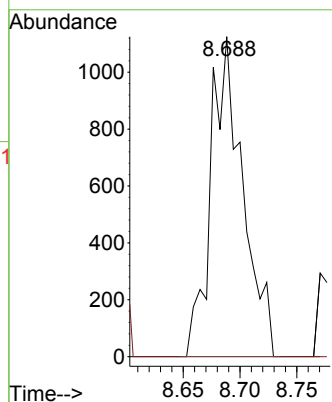
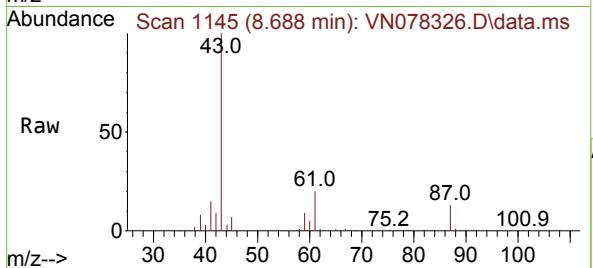
WC-5

Tgt Ion: 62 Resp: 2206

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 31.042 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

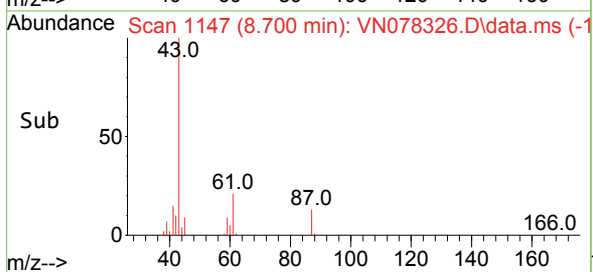
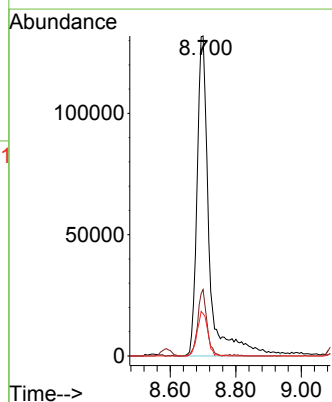
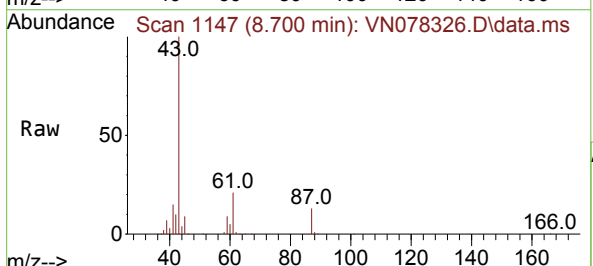
Tgt Ion: 43 Resp: 340775

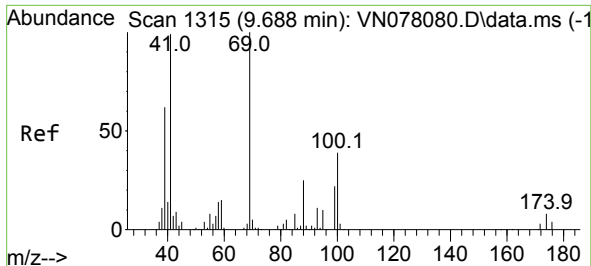
Ion Ratio Lower Upper

43 100

61 15.7 24.7 37.1#

87 11.9 14.6 21.8#

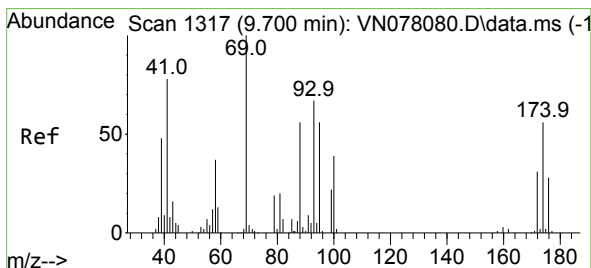
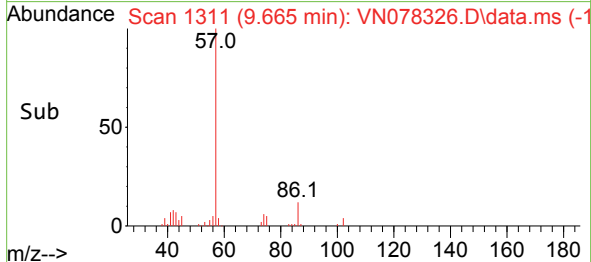
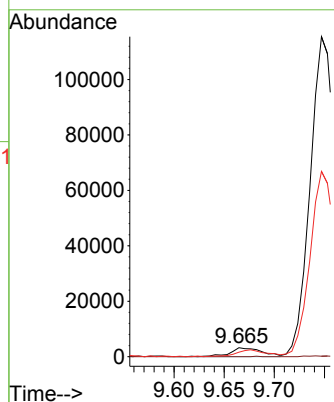
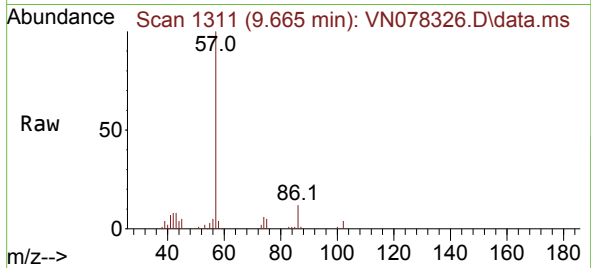




#48
Methyl methacrylate
Concen: 1.556 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.024 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

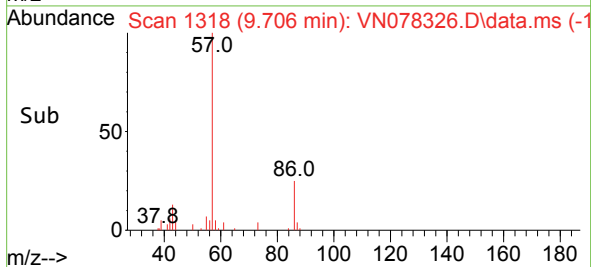
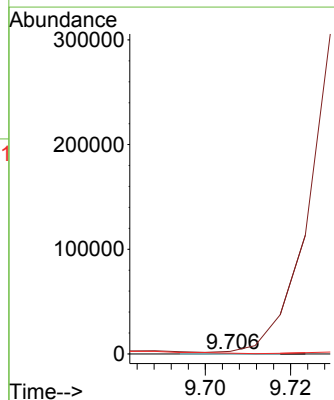
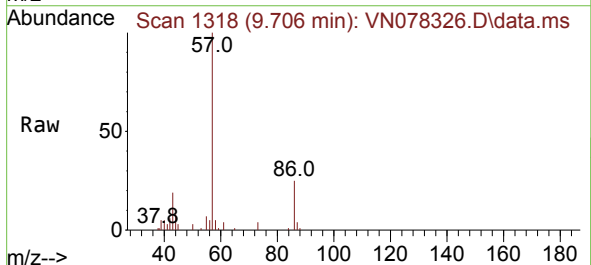
Instrument :
MSVOA_N
ClientSampleId :
WC-5

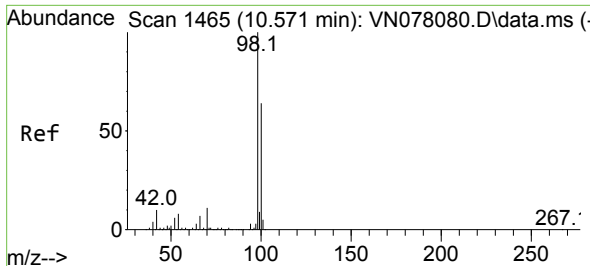
Tgt Ion: 41 Resp: 7166
Ion Ratio Lower Upper
41 100
69 0.8 90.4 135.6#
39 72.5 54.6 81.8



#49
1,4-Dioxane
Concen: 0.558 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

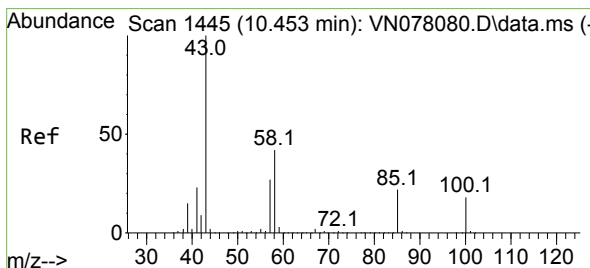
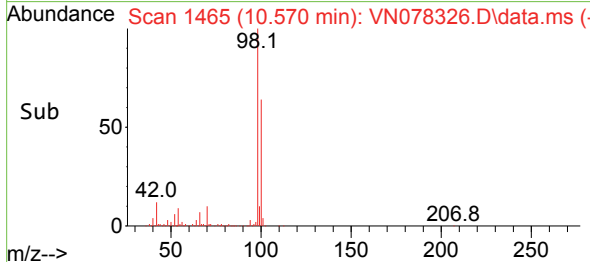
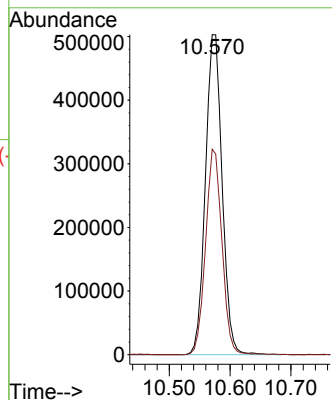
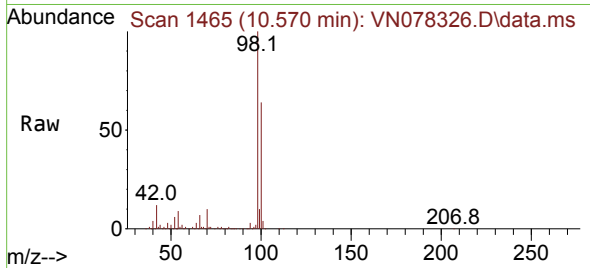




#50
Toluene-d8
Concen: 48.616 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

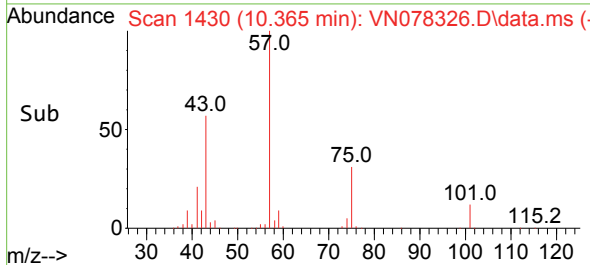
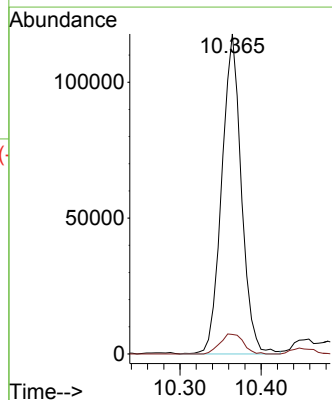
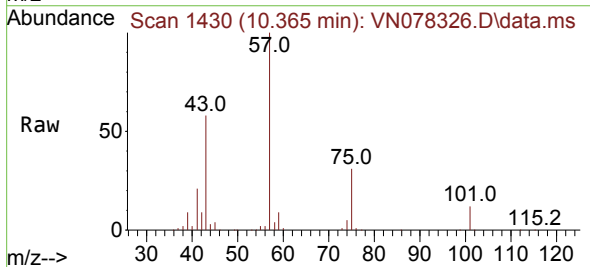
Instrument :
MSVOA_N
ClientSampleId :
WC-5

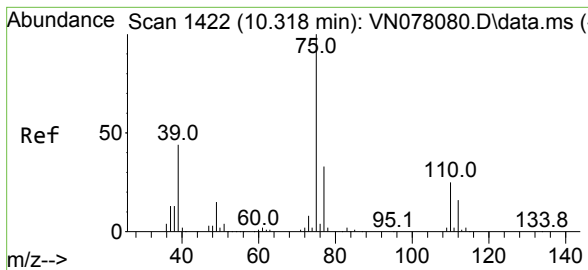
Tgt Ion: 98 Resp: 960081
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 34.265 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion: 43 Resp: 198077
Ion Ratio Lower Upper
43 100
58 7.4 36.6 54.8#

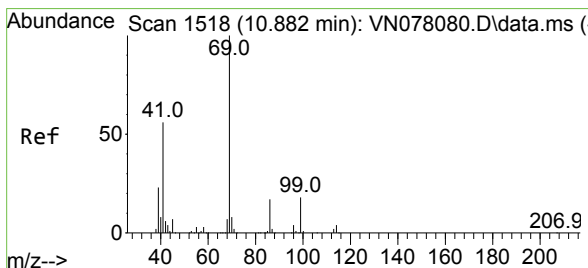
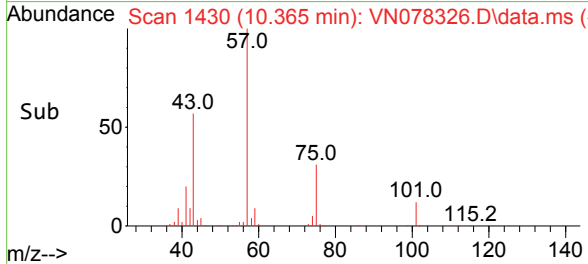
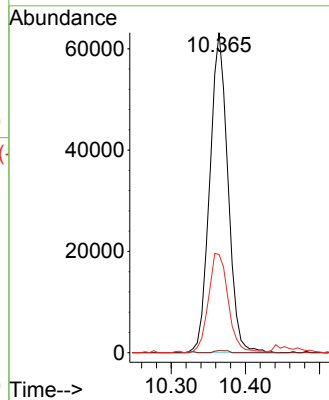
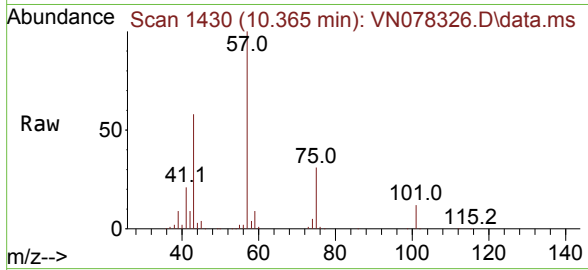




#54
 cis-1,3-Dichloropropene
 Concen: 12.472 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078326.D
 Acq: 21 Jun 2023 16:46

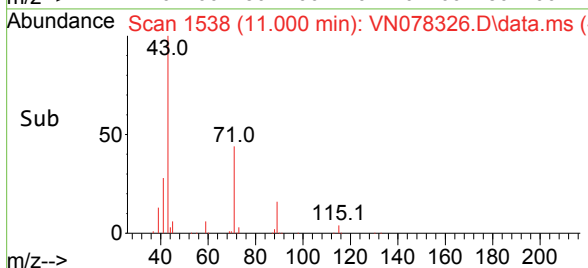
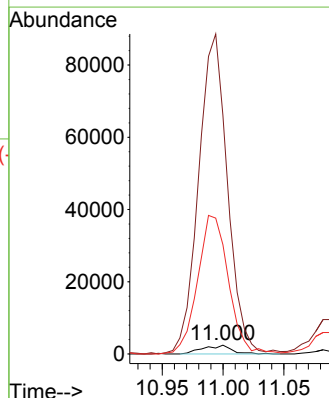
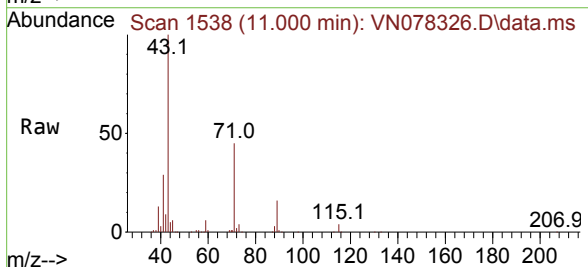
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-5

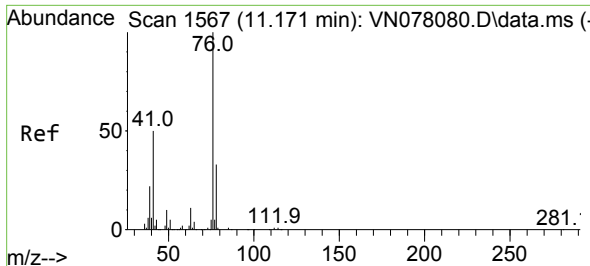
Tgt Ion: 75 Resp: 107217
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 30.3 31.6 47.4#



#56
 Ethyl methacrylate
 Concen: 0.528 ug/l
 RT: 11.000 min Scan# 1538
 Delta R.T. 0.118 min
 Lab File: VN078326.D
 Acq: 21 Jun 2023 16:46

Tgt Ion: 69 Resp: 4027
 Ion Ratio Lower Upper
 69 100
 41 3635.0 39.6 59.4#
 39 1681.4 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.216 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :

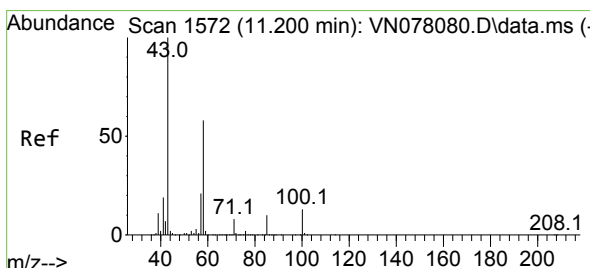
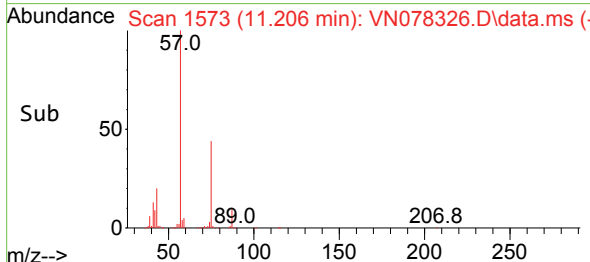
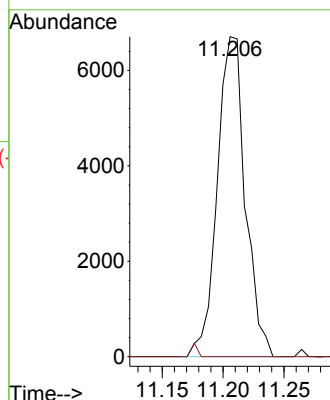
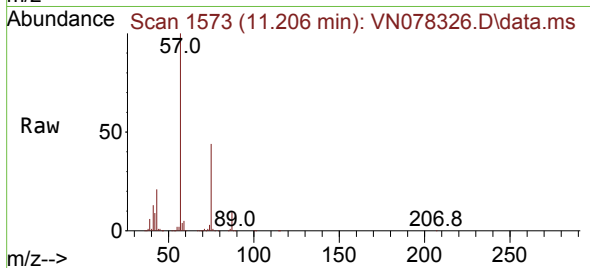
WC-5

Tgt Ion: 76 Resp: 10752

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 58.855 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078326.D

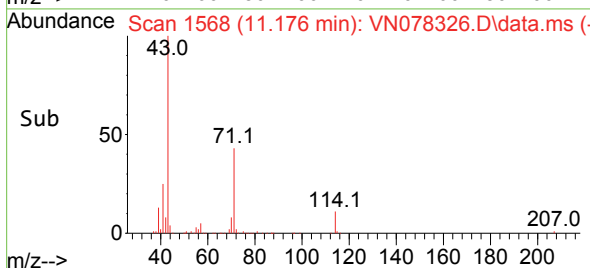
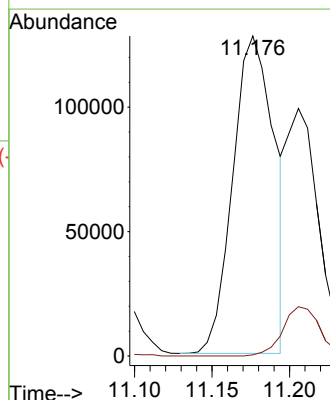
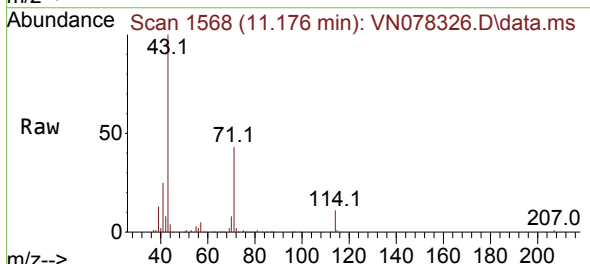
Acq: 21 Jun 2023 16:46

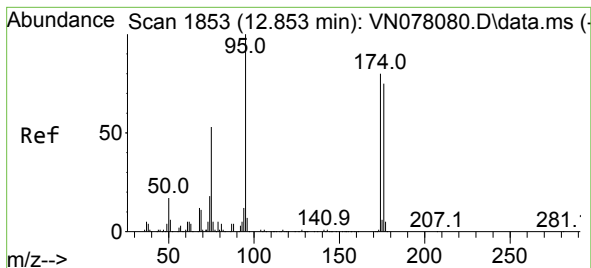
Tgt Ion: 43 Resp: 236895

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

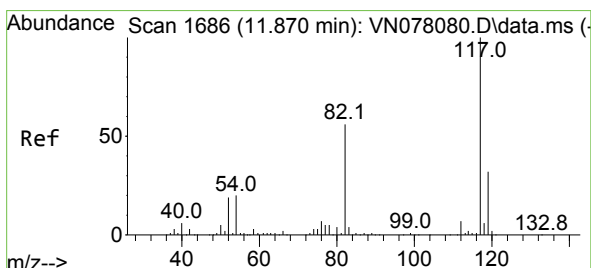
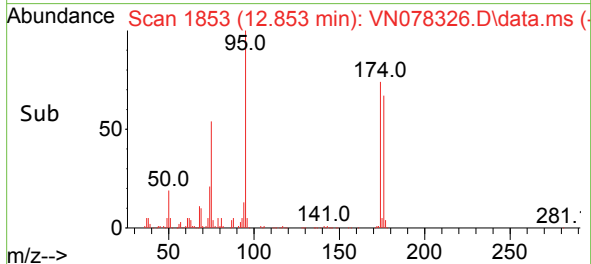
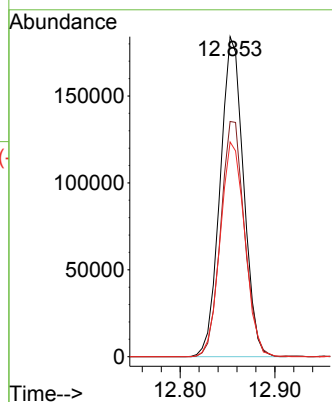
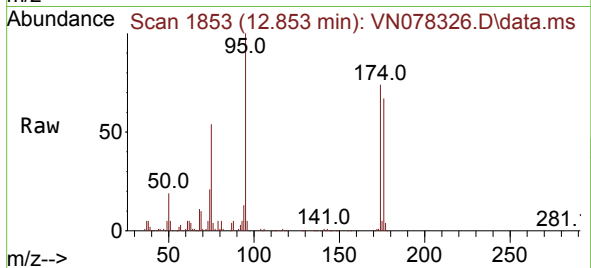




#62
4-Bromofluorobenzene
Concen: 51.505 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

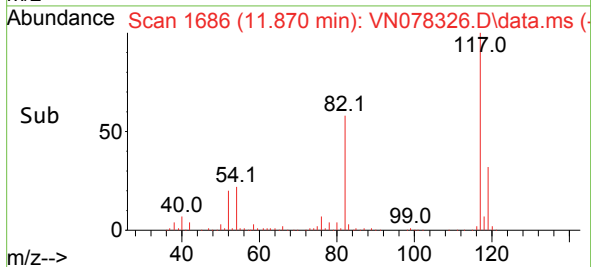
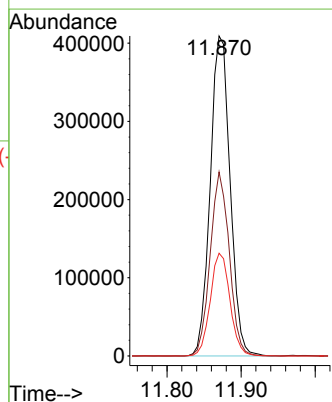
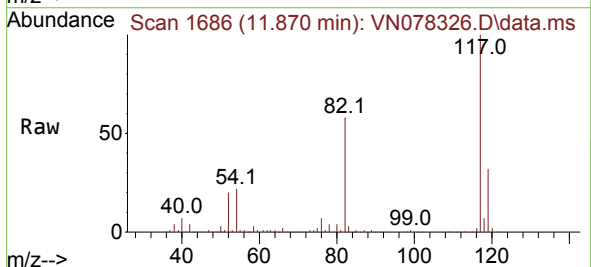
Instrument :
MSVOA_N
ClientSampleId :
WC-5

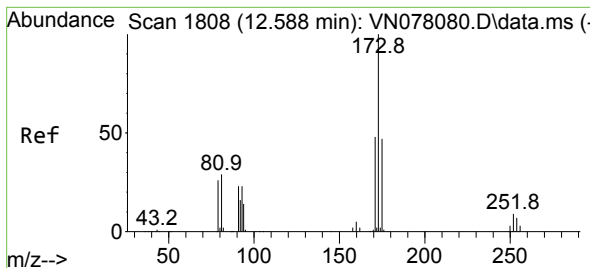
Tgt Ion: 95 Resp: 316205
Ion Ratio Lower Upper
95 100
174 75.0 0.0 143.8
176 70.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion: 117 Resp: 761113
Ion Ratio Lower Upper
117 100
82 57.5 44.0 66.0
119 32.1 25.6 38.4





#71

Bromoform

Concen: 0.761 ug/l

RT: 12.859 min Scan# 1808

Delta R.T. 0.270 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :

WC-5

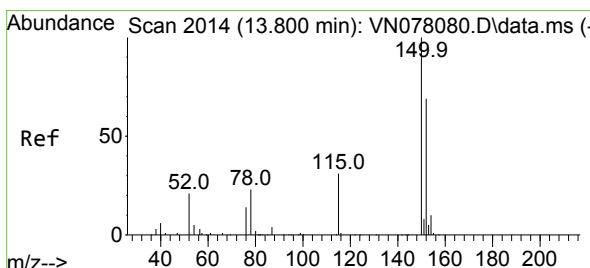
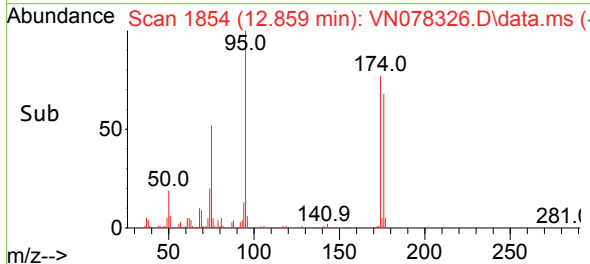
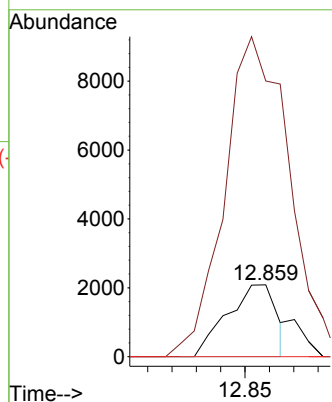
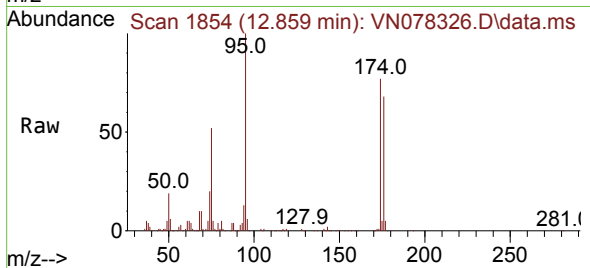
Tgt Ion:173 Resp: 2944

Ion Ratio Lower Upper

173 100

175 491.9 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

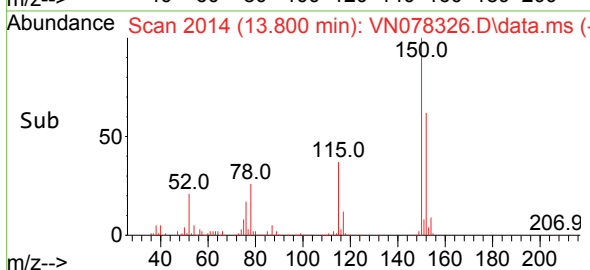
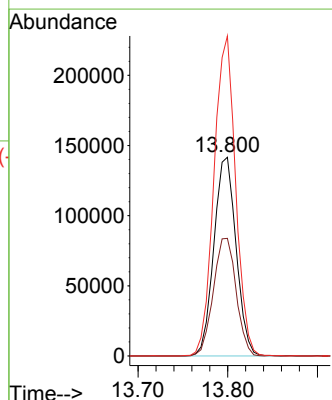
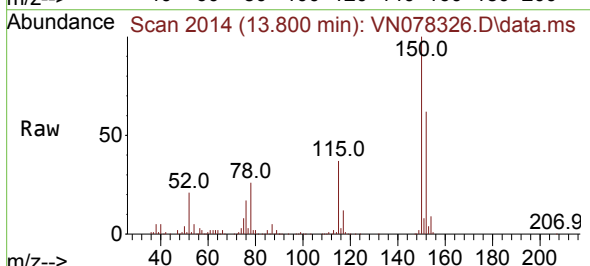
Tgt Ion:152 Resp: 243356

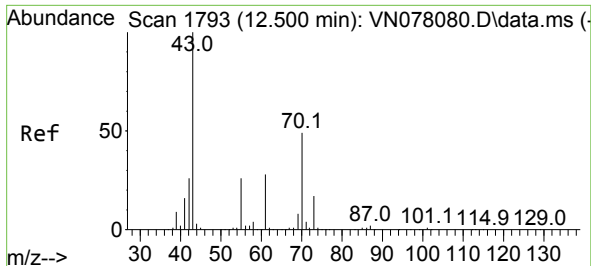
Ion Ratio Lower Upper

152 100

115 60.8 32.3 96.8

150 157.0 0.0 355.8

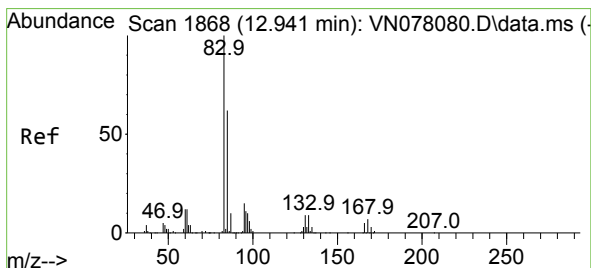
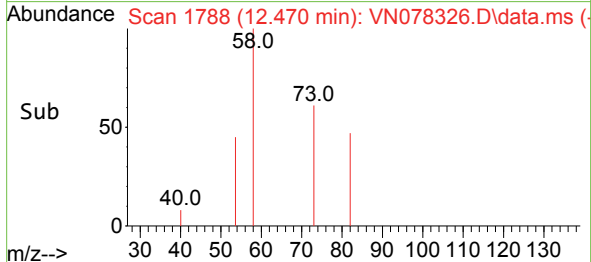
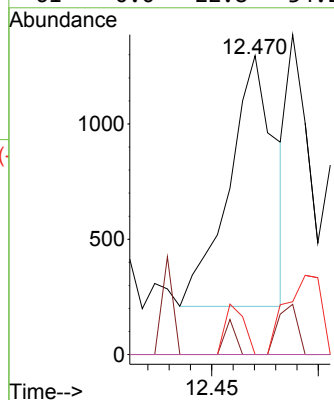
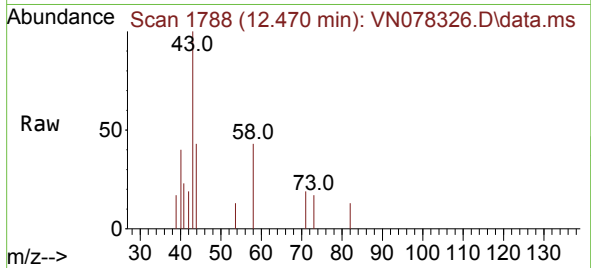




#74
N-amy1 acetate
Concen: 0.215 ug/l
RT: 12.470 min Scan# 1
Delta R.T. -0.030 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

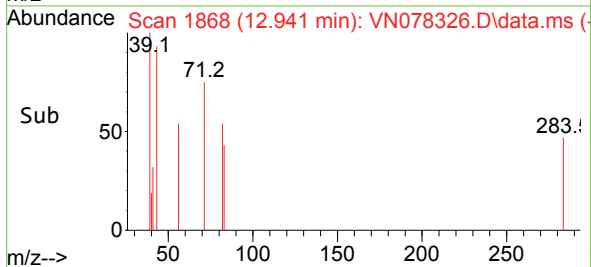
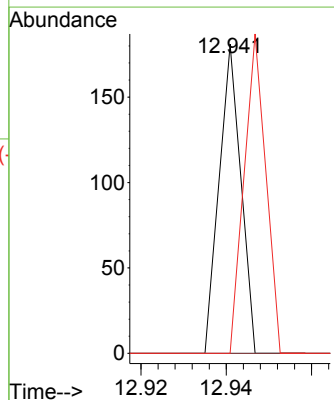
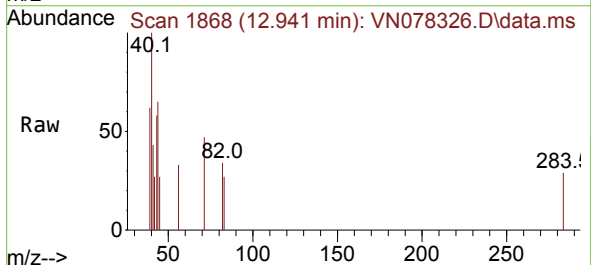
Instrument :
MSVOA_N
ClientSampleId :
WC-5

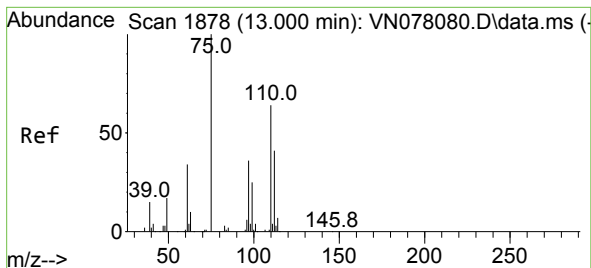
Tgt Ion: 43	Resp: 1632
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 8.3	21.4 32.0#
61 0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.941 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VN078326.D
Acq: 21 Jun 2023 16:46

Tgt Ion: 83	Resp: 64		
Ion Ratio	Lower	Upper	
83 100			
131 0.0	5.0	15.0#	
85 103.1	31.9	95.7#	





#76

1,2,3-Trichloropropane

Concen: 29.206 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Instrument :

MSVOA_N

ClientSampleId :

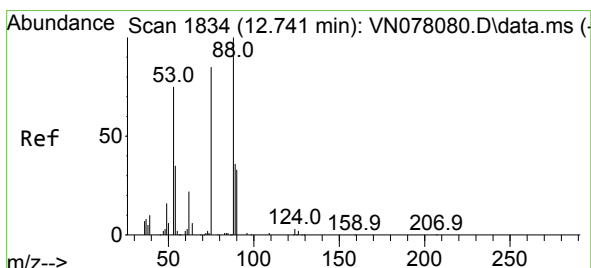
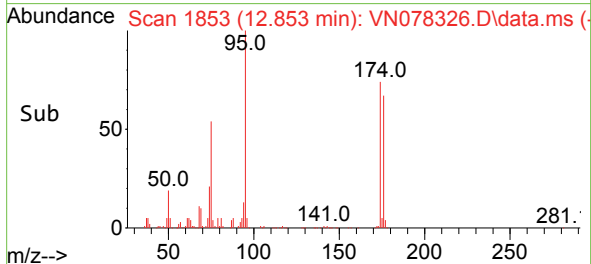
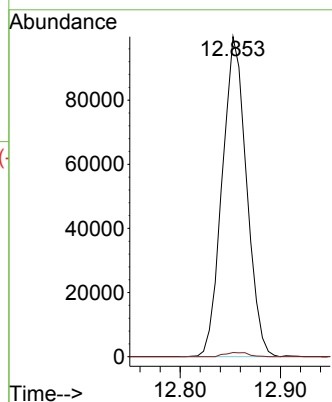
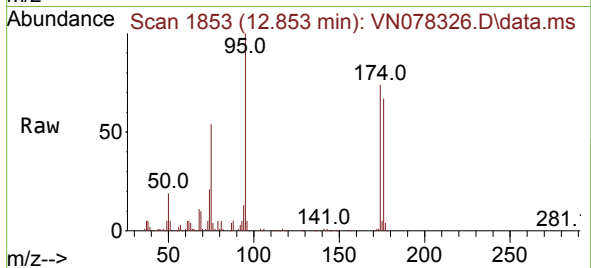
WC-5

Tgt Ion: 75 Resp: 168021

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 89.729 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078326.D

Acq: 21 Jun 2023 16:46

Tgt Ion: 75 Resp: 168021

Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.1 38.8 58.2#

