

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062023\
 Data File : VN078312.D
 Acq On : 20 Jun 2023 16:13
 Operator : JC\MD
 Sample : 03321-05RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-24

Quant Time: Jun 21 05:48:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

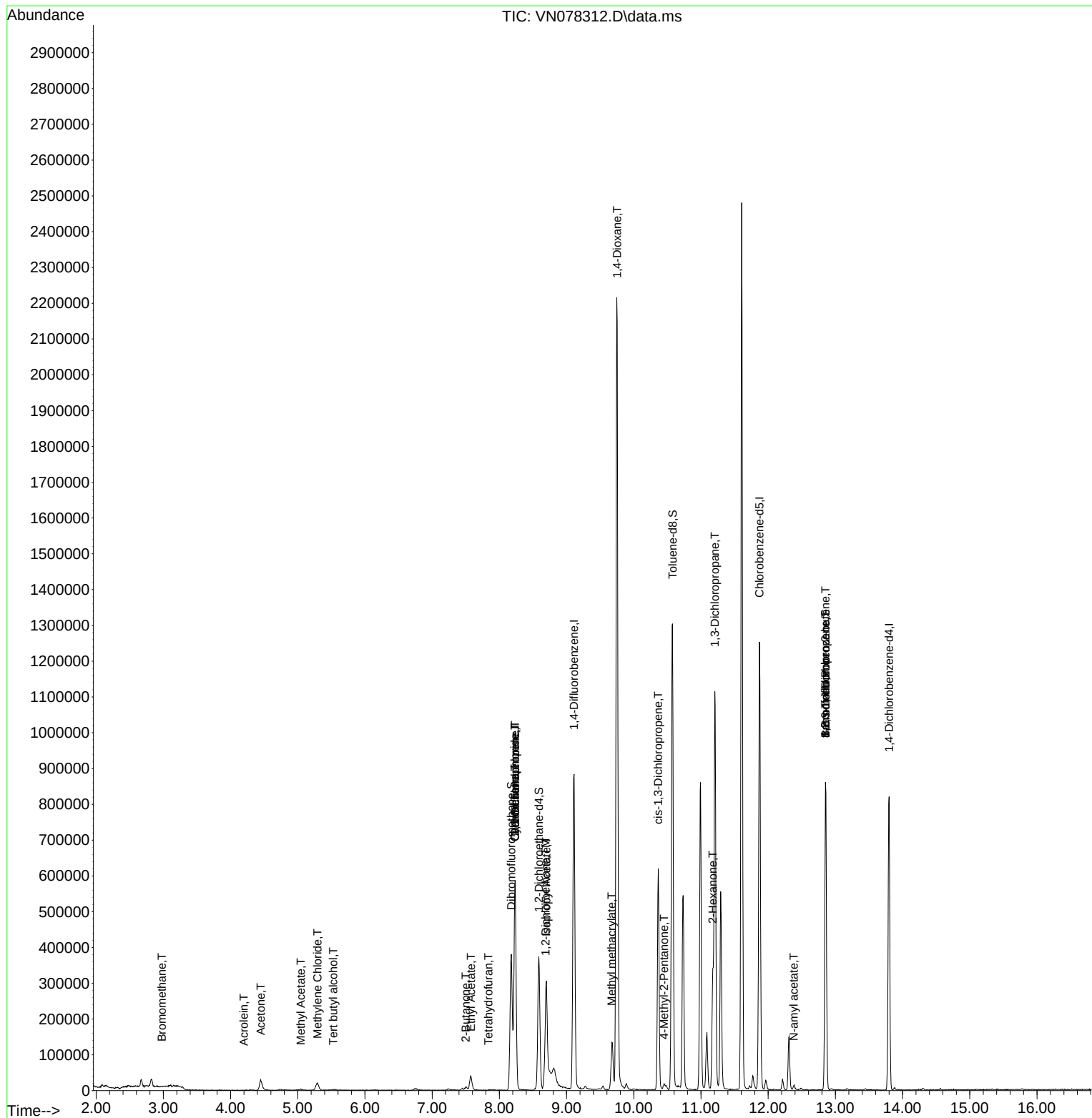
Internal Standards						
1) Pentafluorobenzene	8.235	168	421045	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	792964	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	726505	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	220459	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	301660	53.735	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.480%			
35) Dibromofluoromethane	8.177	113	277273	55.302	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.600%			
50) Toluene-d8	10.576	98	963672	49.857	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.720%			
62) 4-Bromofluorobenzene	12.853	95	294828	49.066	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.140%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	820	Below Cal		94
5) Bromomethane	2.977	94	1508	0.320 ug/l #		38
11) Tert butyl alcohol	5.530	59	903	1.165 ug/l #		72
13) Acrolein	4.200	56	539	0.631 ug/l #		16
16) Acetone	4.447	43	52871	32.720 ug/l		90
18) Methyl Acetate	5.047	43	5435	0.731 ug/l #		56
20) Methylene Chloride	5.295	84	16643	3.117 ug/l		96
25) 2-Butanone	7.500	43	13127	5.283 ug/l		88
29) Tetrahydrofuran	7.835	42	366	0.220 ug/l #		34
31) Cyclohexane	8.230	56	9091	1.262 ug/l #		1
36) 1,1-Dichloropropene	8.235	75	36518	5.078 ug/l #		41
37) Ethyl Acetate	7.577	43	58082	10.338 ug/l #		96
38) Carbon Tetrachloride	8.230	117	47442	6.247 ug/l #		15
42) 1,2-Dichloroethane	8.688	62	1502	0.204 ug/l #		73
43) Isopropyl Acetate	8.700	43	386167	35.941 ug/l #		75
48) Methyl methacrylate	9.671	41	7231	1.604 ug/l #		34
49) 1,4-Dioxane	9.753	88	342	3.609 ug/l #		1
51) 4-Methyl-2-Pentanone	10.453	43	11182	1.976 ug/l		90
54) cis-1,3-Dichloropropene	10.365	75	111909	13.300 ug/l #		72
57) 1,3-Dichloropropane	11.206	76	12651	1.462 ug/l #		42
59) 2-Hexanone	11.176	43	247119	62.727 ug/l #		19
71) Bromoform	12.853	173	3564	0.965 ug/l #		1
74) N-amyl acetate	12.382	43	2281	0.332 ug/l #		47
75) 1,1,2,2-Tetrachloroethane	12.953	83	172	Below Cal #		26
76) 1,2,3-Trichloropropane	12.853	75	162757	31.229 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	162757	95.945 ug/l #		15

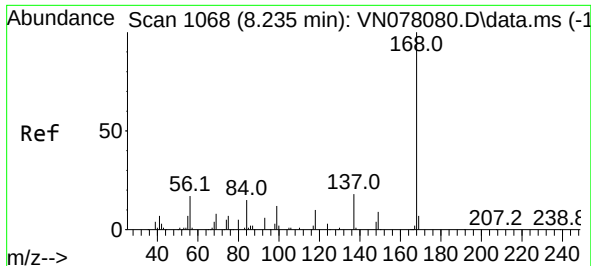
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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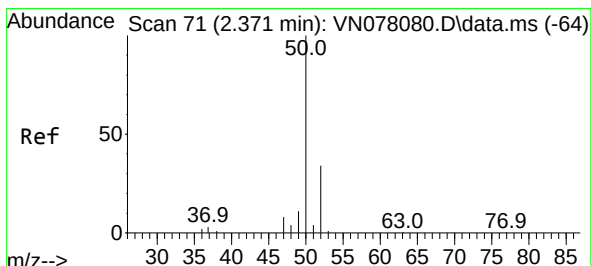
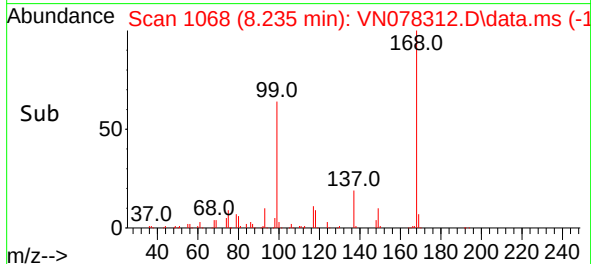
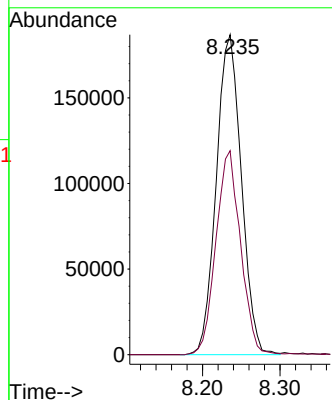
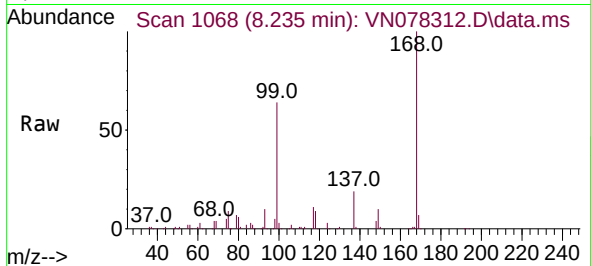




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

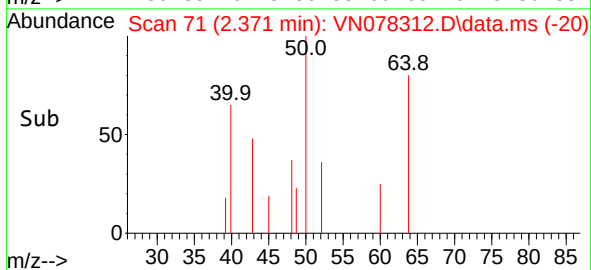
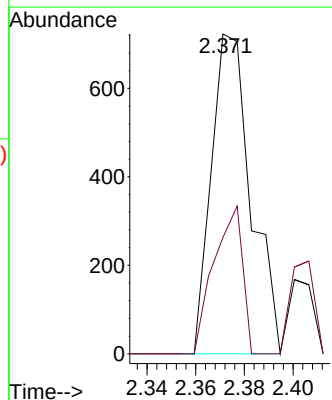
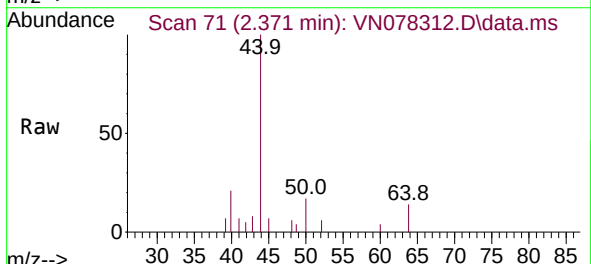
Instrument :
MSVOA_N
ClientSampleId :
WC-24

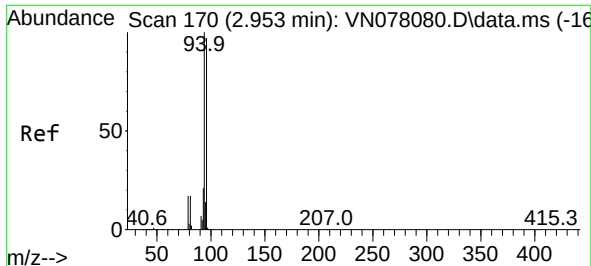
Tgt Ion:168 Resp: 421045
Ion Ratio Lower Upper
168 100
99 63.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 50 Resp: 820
Ion Ratio Lower Upper
50 100
52 36.4 26.5 39.7

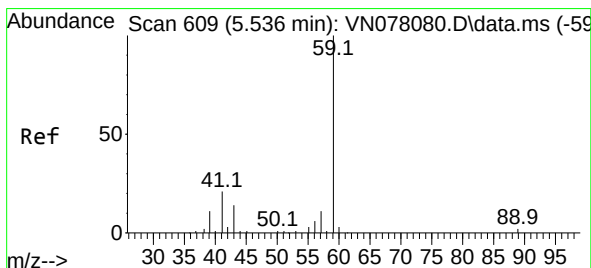
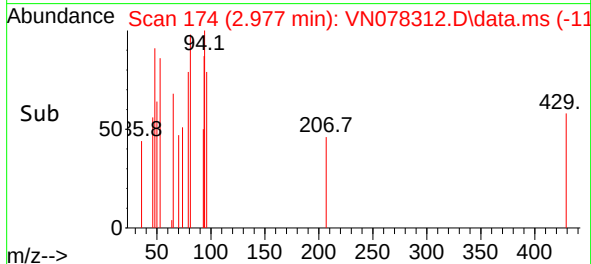
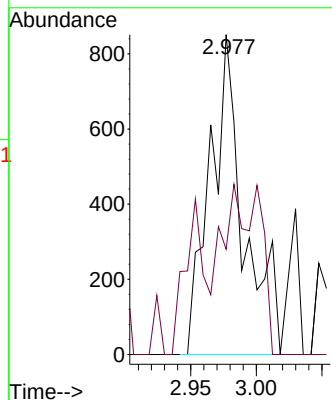
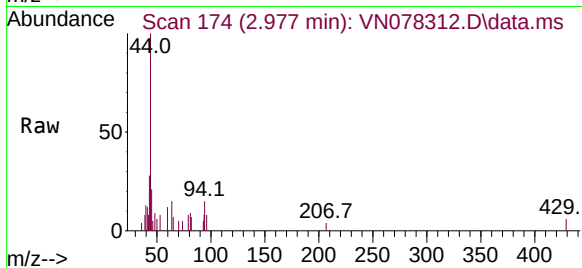




#5
Bromomethane
Concen: 0.320 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

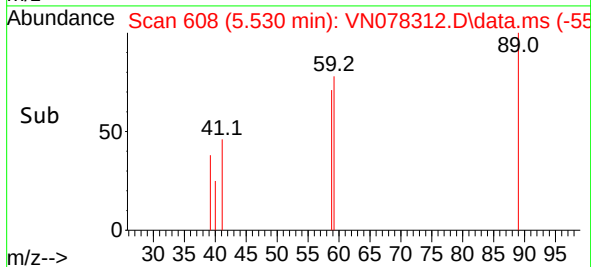
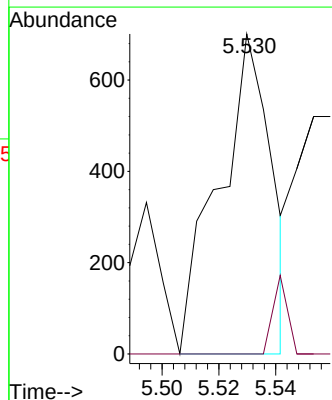
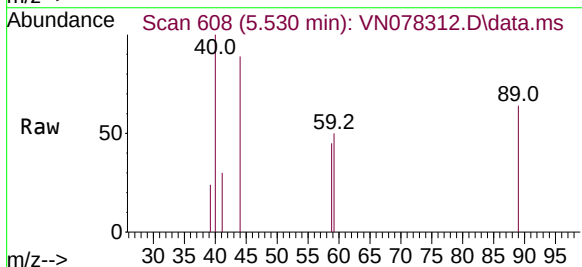
Instrument :
MSVOA_N
ClientSampleId :
WC-24

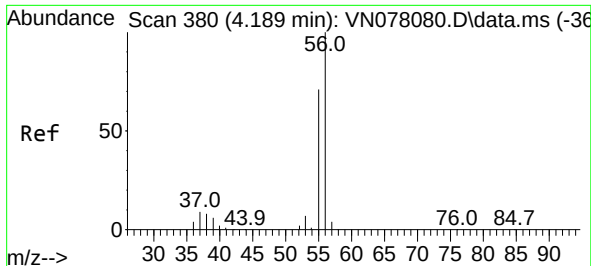
Tgt Ion: 94 Resp: 1508
Ion Ratio Lower Upper
94 100
96 32.9 73.1 109.7#



#11
Tert butyl alcohol
Concen: 1.165 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 59 Resp: 903
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

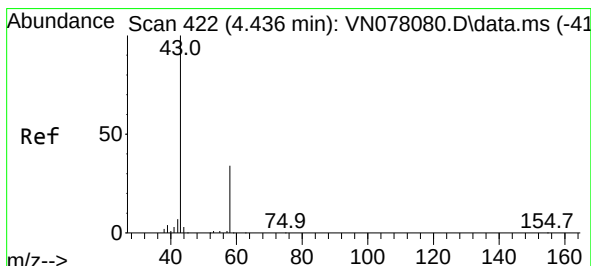
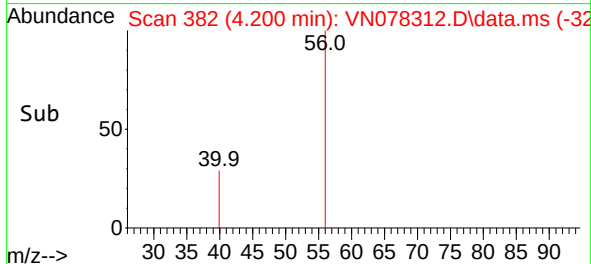
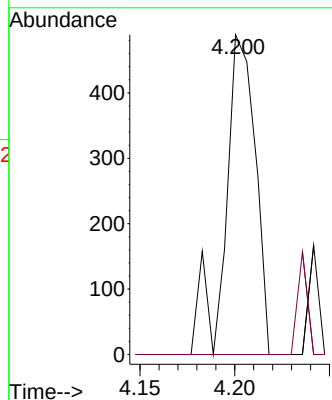
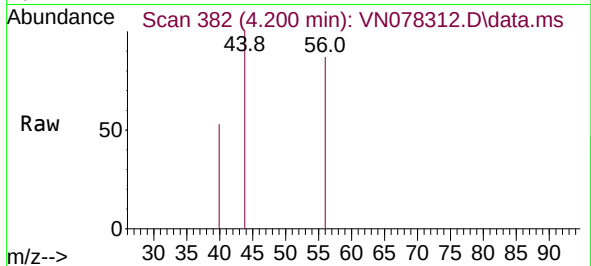




#13
Acrolein
Concen: 0.631 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.012 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

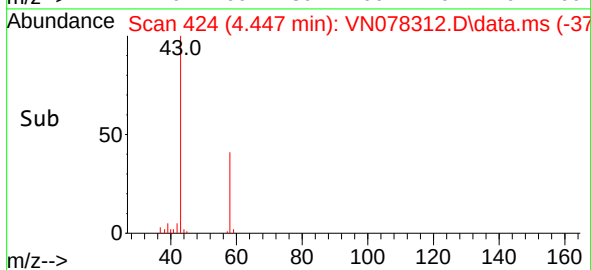
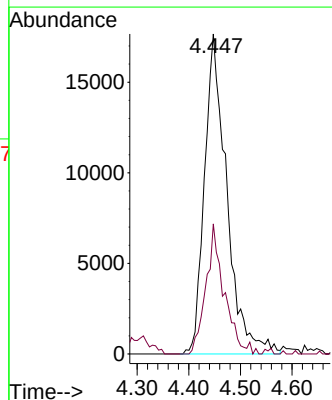
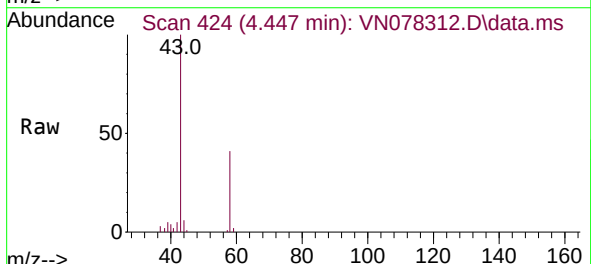
Instrument :
MSVOA_N
ClientSampleId :
WC-24

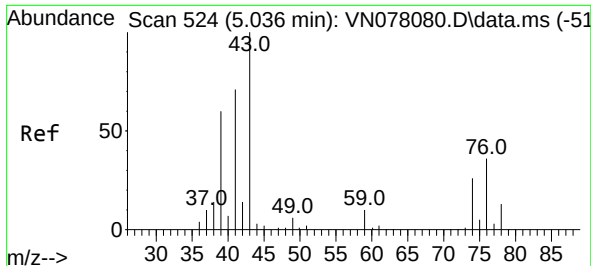
Tgt Ion: 56 Resp: 539
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 32.720 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 43 Resp: 52871
Ion Ratio Lower Upper
43 100
58 40.7 28.0 42.0

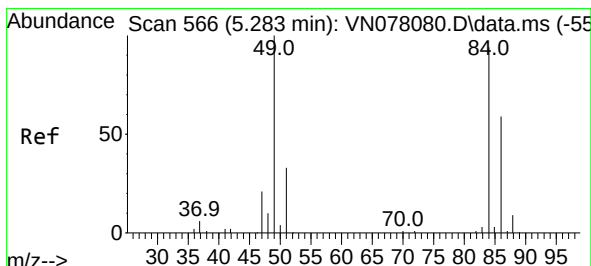
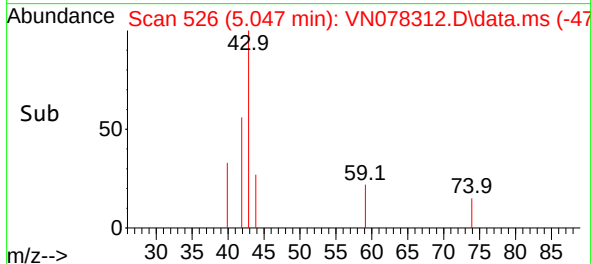
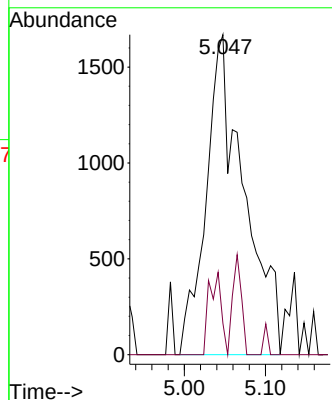
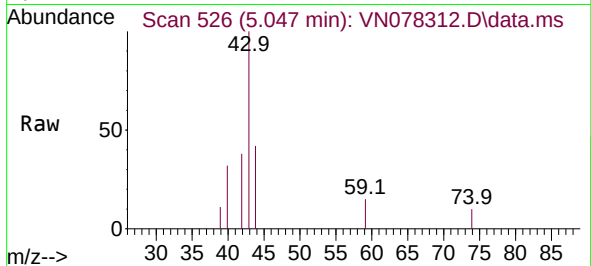




#18
Methyl Acetate
Concen: 0.731 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

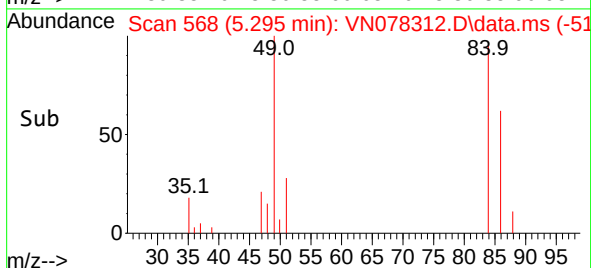
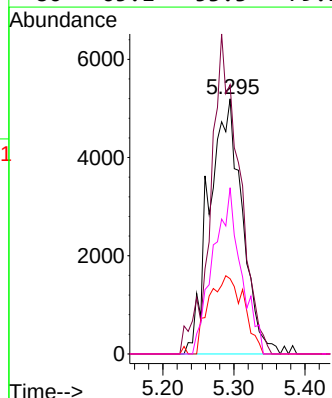
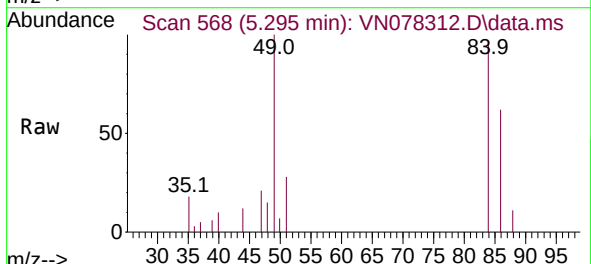
Instrument :
MSVOA_N
ClientSampleId :
WC-24

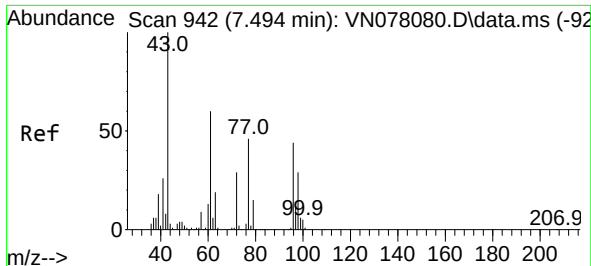
Tgt Ion: 43 Resp: 5435
Ion Ratio Lower Upper
43 100
74 8.3 26.2 39.4#



#20
Methylene Chloride
Concen: 3.117 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.012 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 84 Resp: 16643
Ion Ratio Lower Upper
84 100
49 105.5 79.7 119.5
51 29.4 25.2 37.8
86 65.1 53.3 79.9

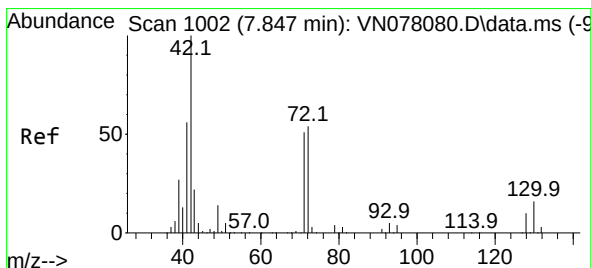
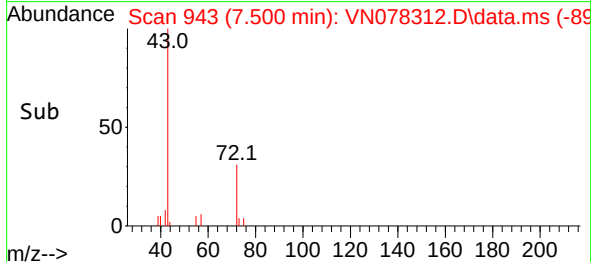
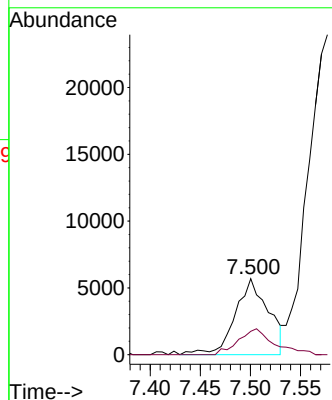
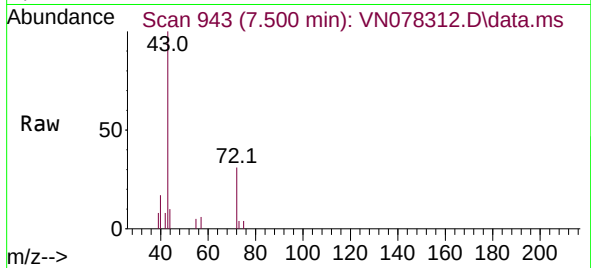




#25
2-Butanone
Concen: 5.283 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

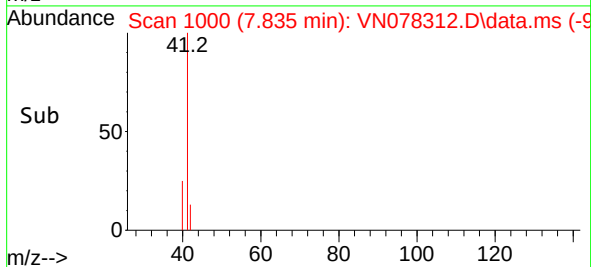
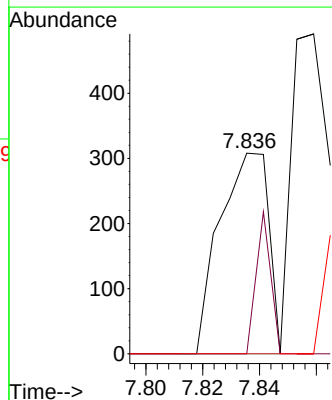
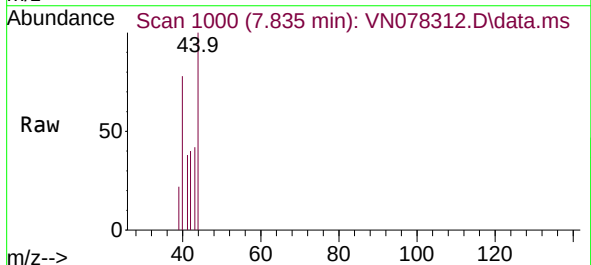
Instrument :
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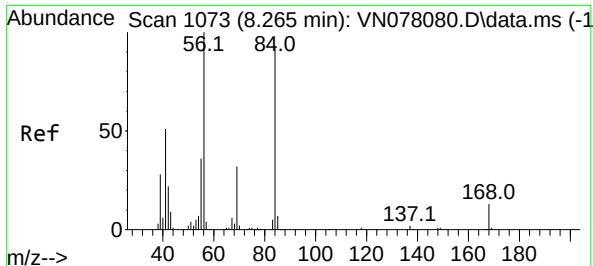
Tgt Ion: 43 Resp: 13127
Ion Ratio Lower Upper
43 100
72 30.7 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.220 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. -0.012 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 42 Resp: 366
Ion Ratio Lower Upper
42 100
72 21.0 49.8 74.6#
71 0.0 47.4 71.2#

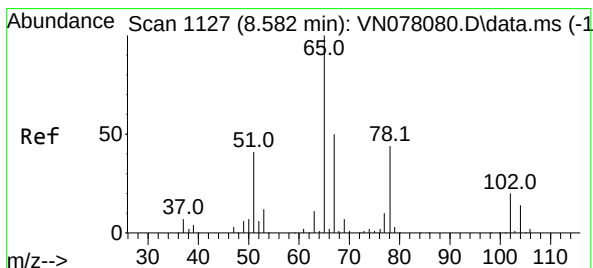
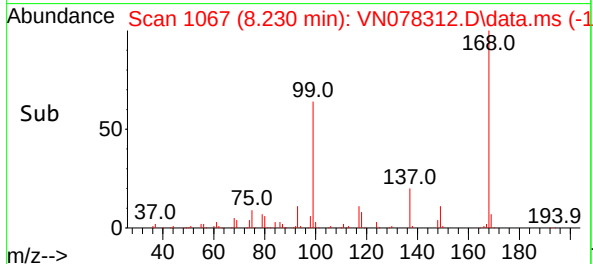
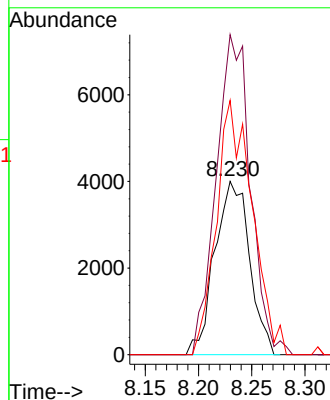
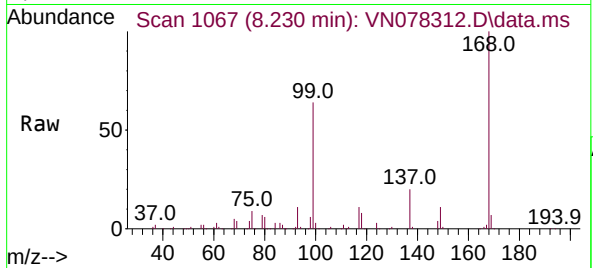




#31
Cyclohexane
Concen: 1.262 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

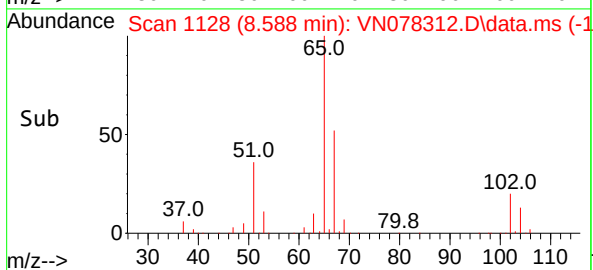
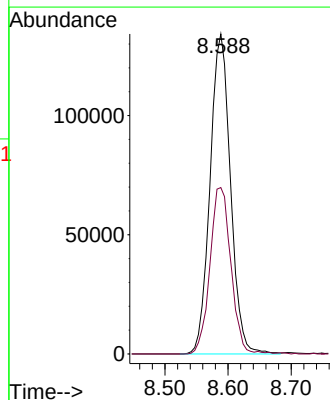
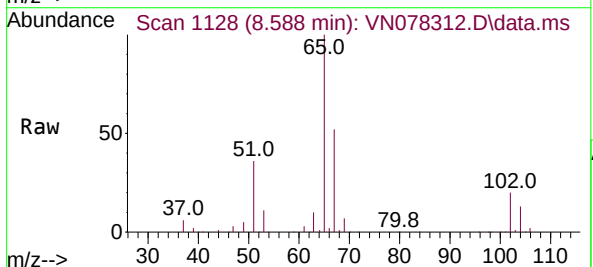
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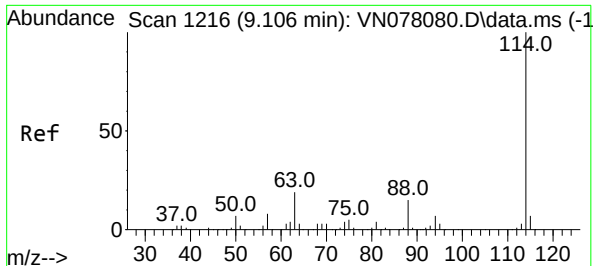
Tgt Ion: 56 Resp: 9091
Ion Ratio Lower Upper
56 100
69 184.7 26.8 40.2#
84 146.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 53.735 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 65 Resp: 301660
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

WC-24

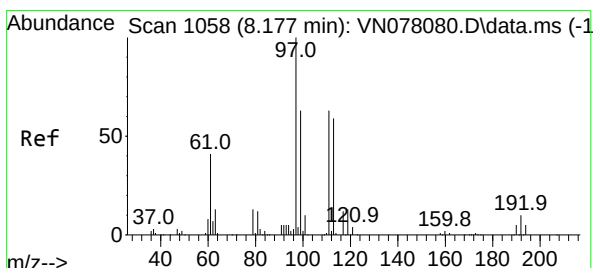
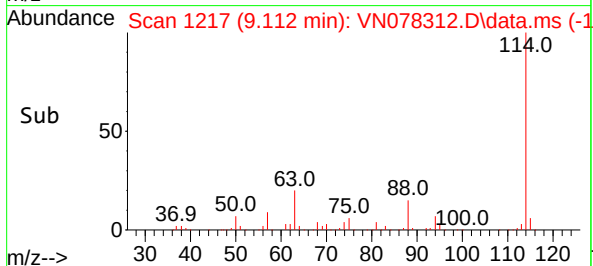
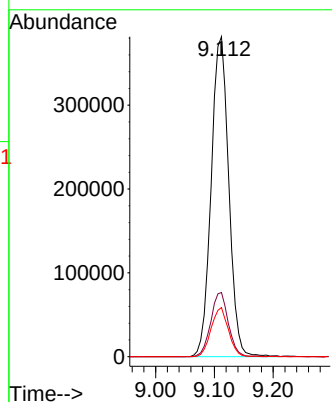
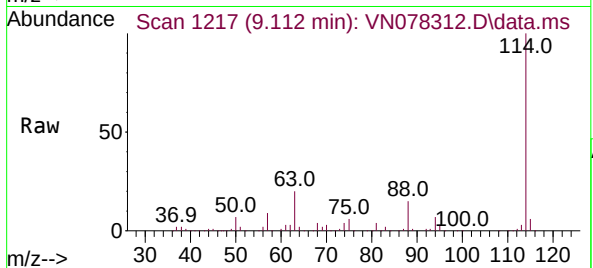
Tgt Ion:114 Resp: 792964

Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.302 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

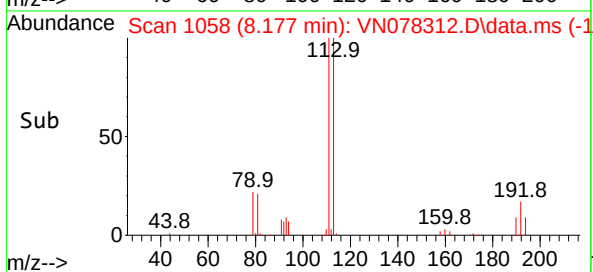
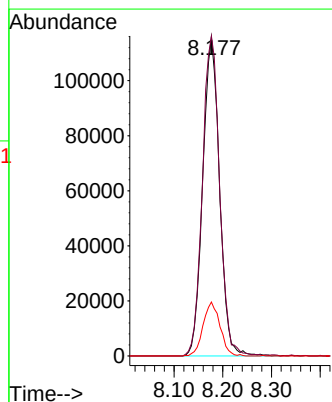
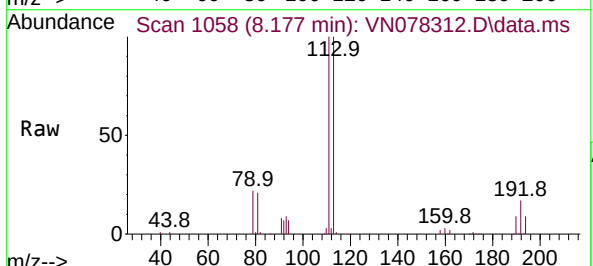
Tgt Ion:113 Resp: 277273

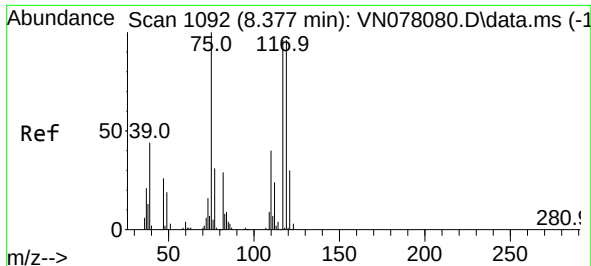
Ion Ratio Lower Upper

113 100

111 102.8 82.6 123.8

192 17.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.078 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

WC-24

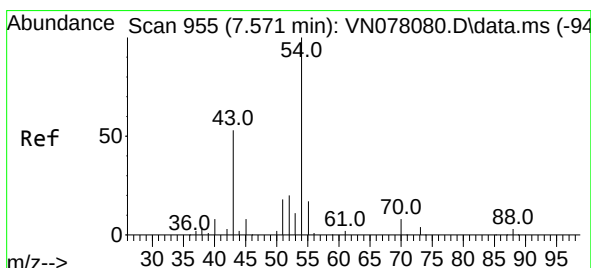
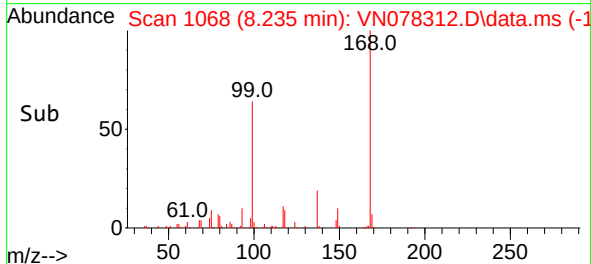
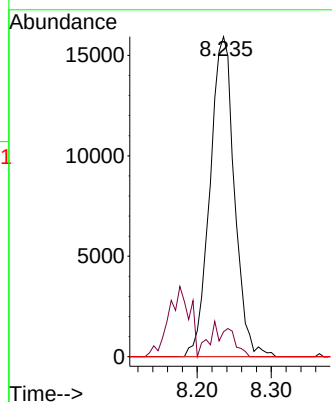
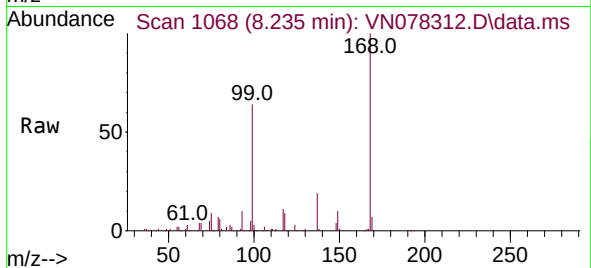
Tgt Ion: 75 Resp: 36518

Ion Ratio Lower Upper

75 100

110 1.3 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 10.338 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

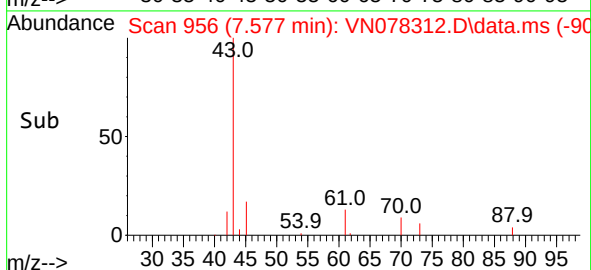
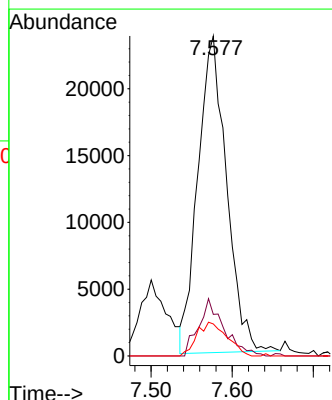
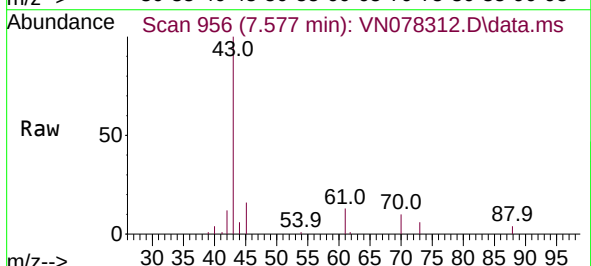
Tgt Ion: 43 Resp: 58082

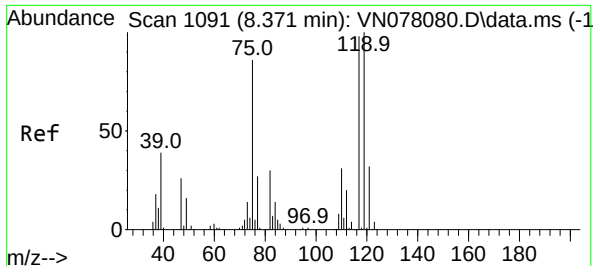
Ion Ratio Lower Upper

43 100

61 16.1 13.2 19.8

70 11.2 11.3 16.9#

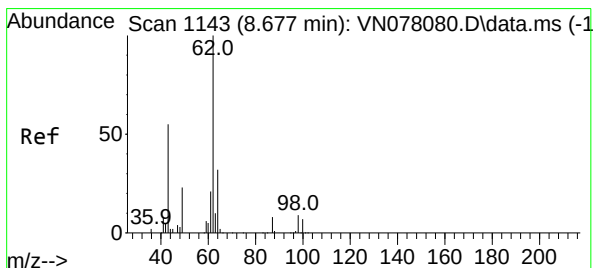
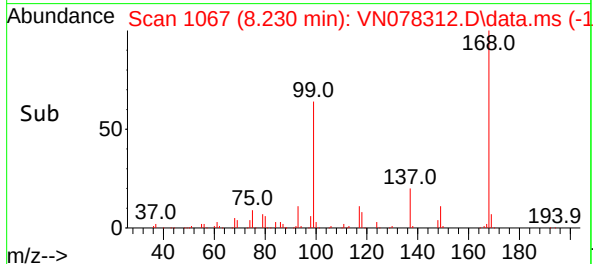
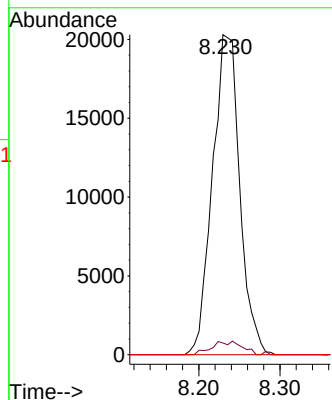
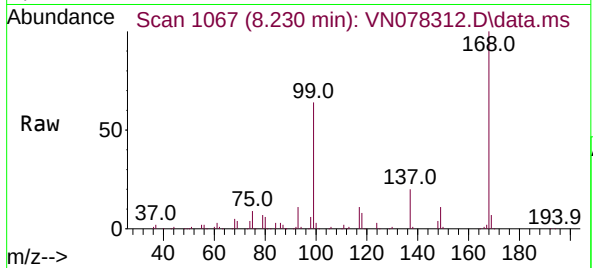




#38
Carbon Tetrachloride
Concen: 6.247 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

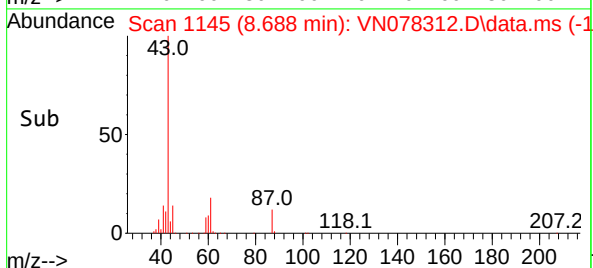
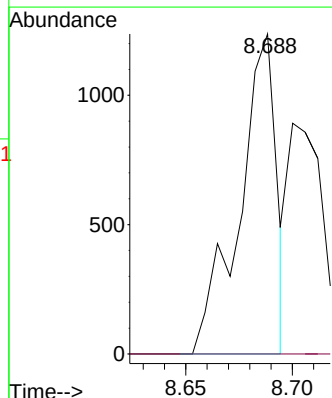
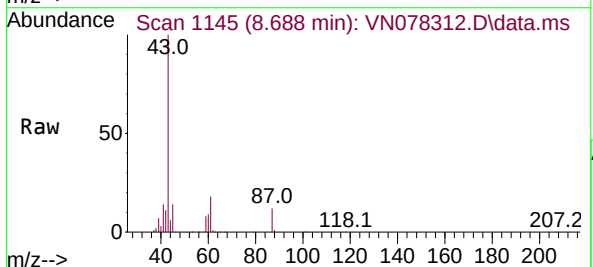
Instrument :
MSVOA_N
ClientSampleId :
WC-24

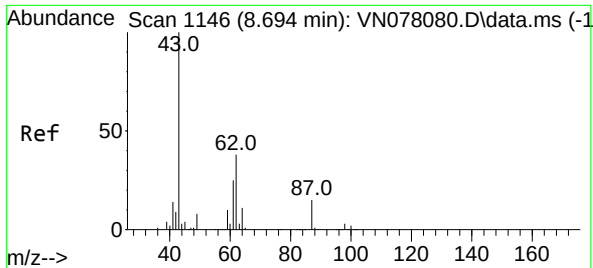
Tgt Ion:117 Resp: 47442
Ion Ratio Lower Upper
117 100
119 3.7 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.204 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.012 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 62 Resp: 1502
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

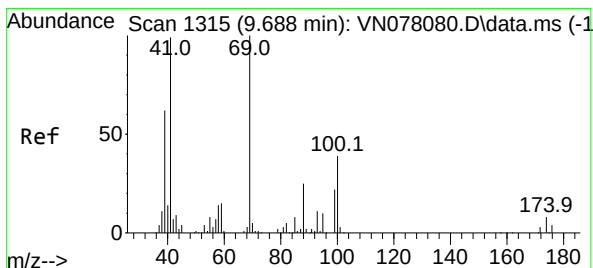
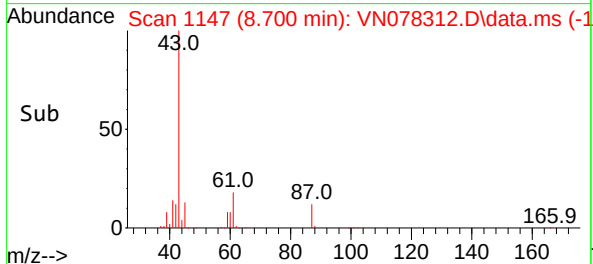
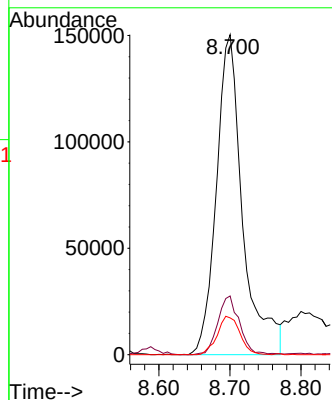
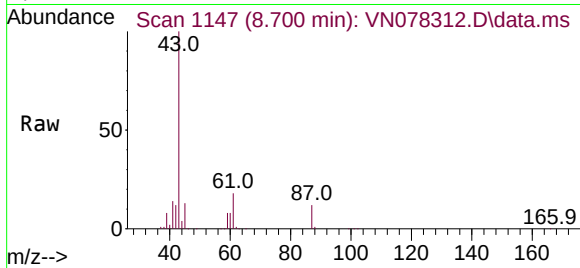




#43
Isopropyl Acetate
Concen: 35.941 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

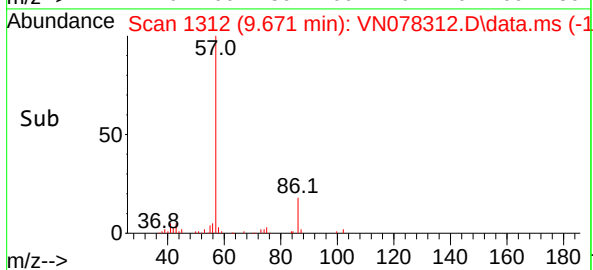
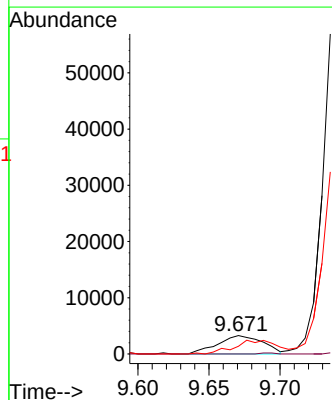
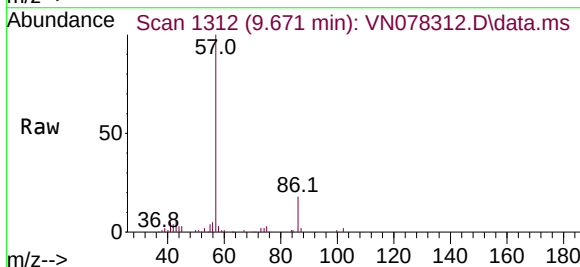
Instrument :
MSVOA_N
ClientSampleId :
WC-24

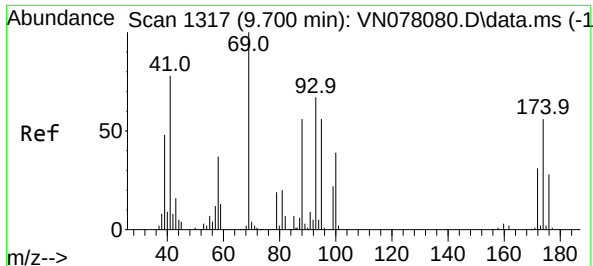
Tgt Ion: 43 Resp: 386167
Ion Ratio Lower Upper
43 100
61 15.2 24.7 37.1#
87 10.3 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.604 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 41 Resp: 7231
Ion Ratio Lower Upper
41 100
69 1.6 90.4 135.6#
39 70.4 54.6 81.8





#49

1,4-Dioxane

Concen: 3.609 ug/l

RT: 9.753 min Scan# 1317

Delta R.T. 0.053 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

WC-24

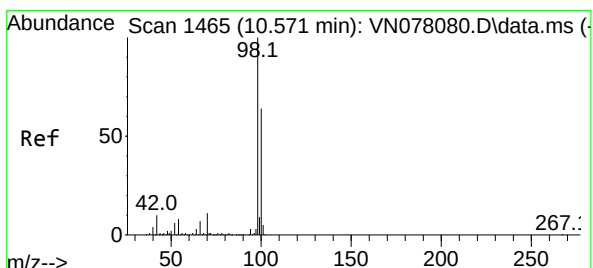
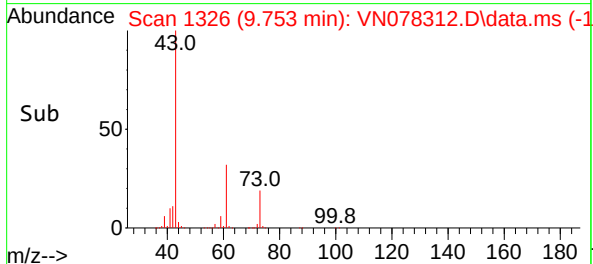
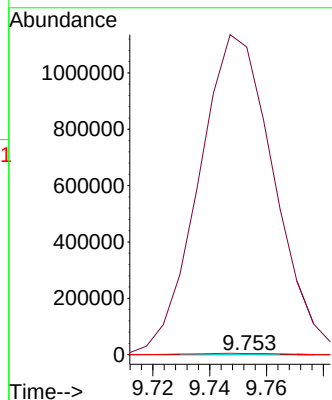
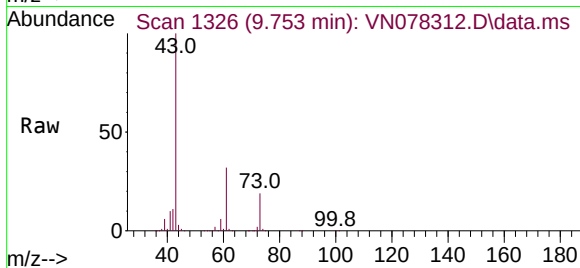
Tgt Ion: 88 Resp: 342

Ion Ratio Lower Upper

88 100

43 619590.4 17.0 25.6#

58 3008.8 47.0 70.4#



#50

Toluene-d8

Concen: 49.857 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078312.D

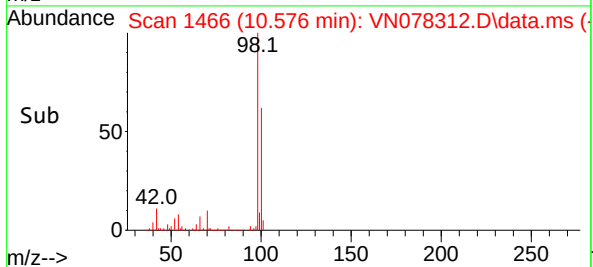
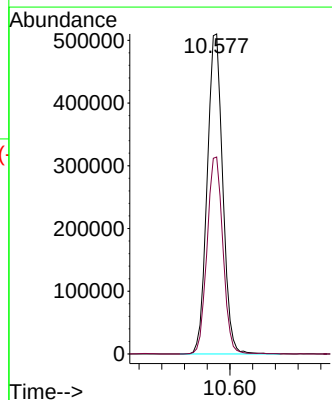
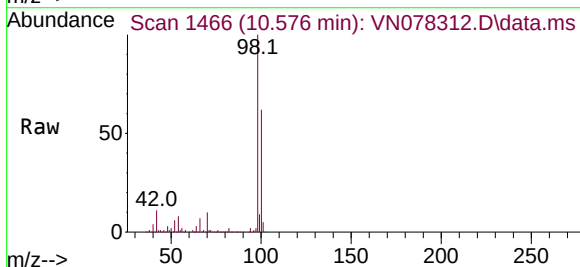
Acq: 20 Jun 2023 16:13

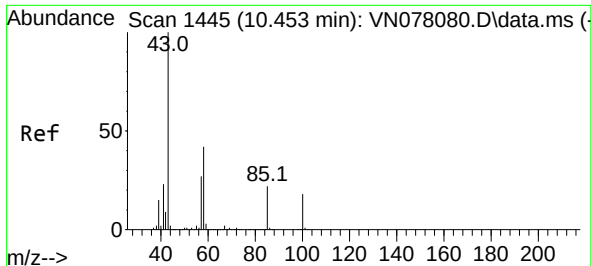
Tgt Ion: 98 Resp: 963672

Ion Ratio Lower Upper

98 100

100 62.7 52.0 78.0

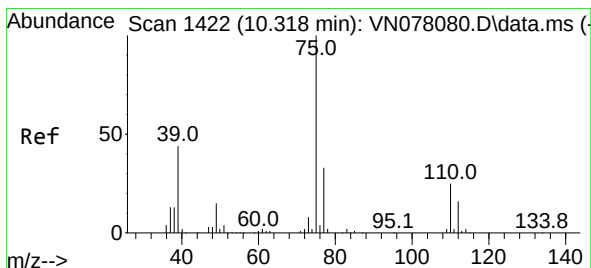
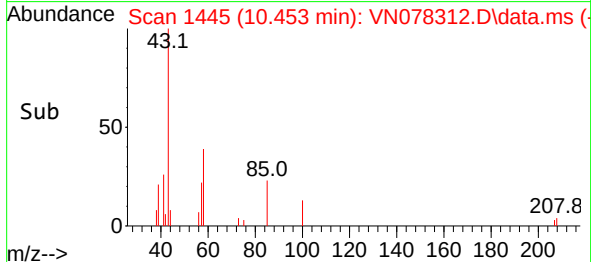
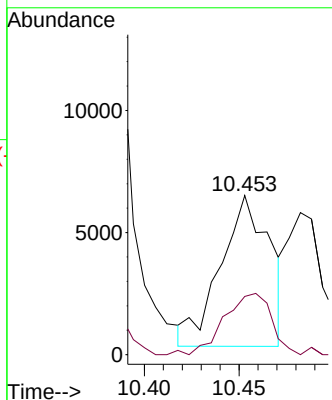
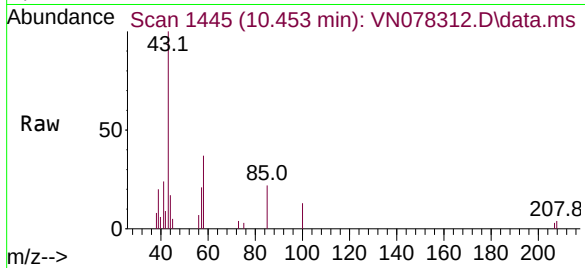




#51
4-Methyl-2-Pentanone
Concen: 1.976 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

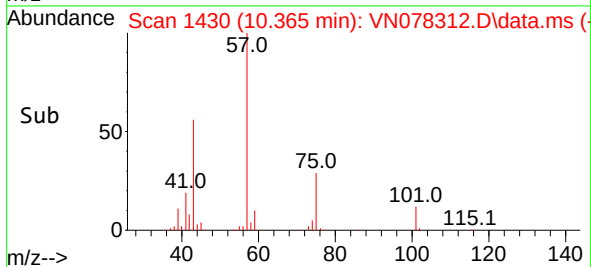
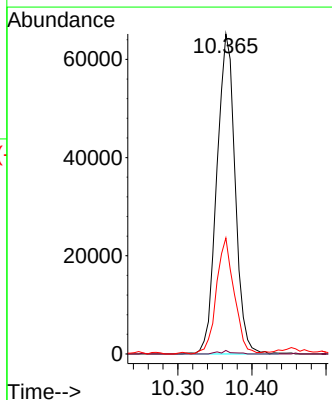
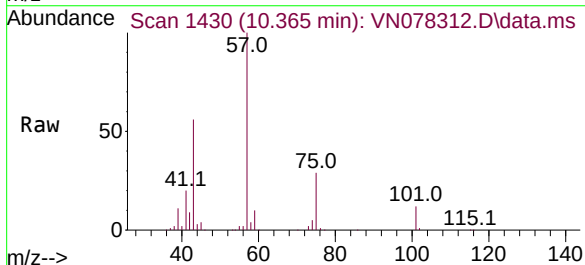
Instrument :
MSVOA_N
ClientSampleId :
WC-24

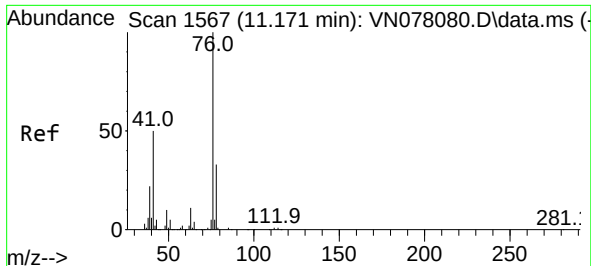
Tgt Ion: 43 Resp: 11182
Ion Ratio Lower Upper
43 100
58 38.9 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 13.300 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 75 Resp: 111909
Ion Ratio Lower Upper
75 100
77 1.1 26.1 39.1#
39 36.0 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.462 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

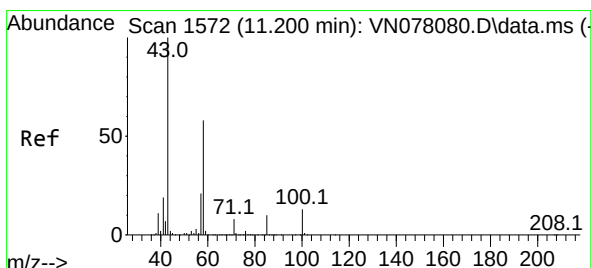
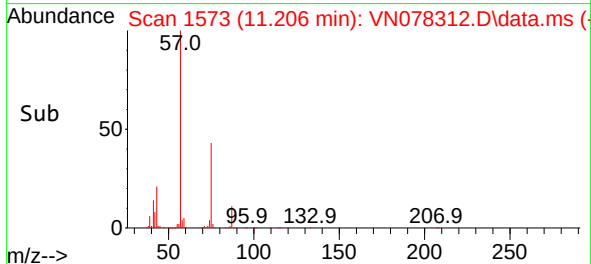
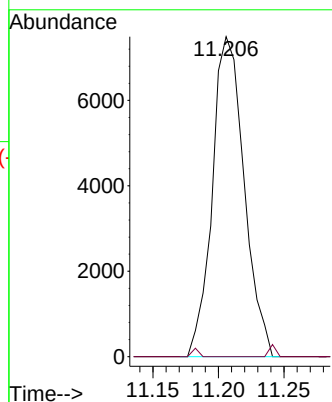
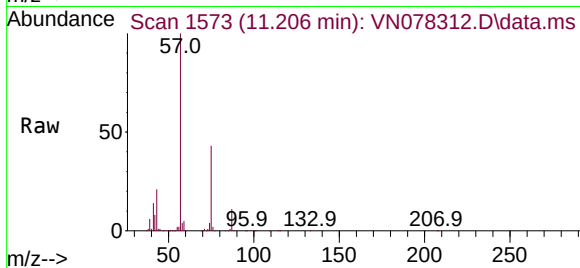
WC-24

Tgt Ion: 76 Resp: 12651

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 62.727 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078312.D

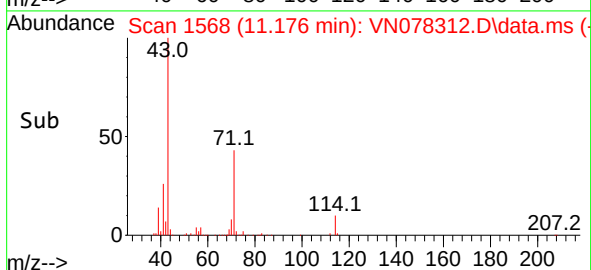
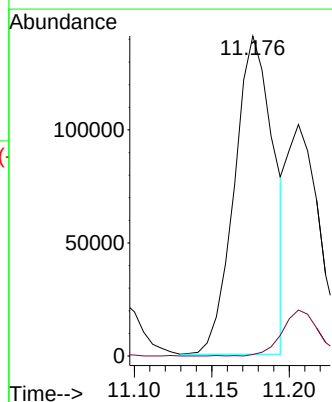
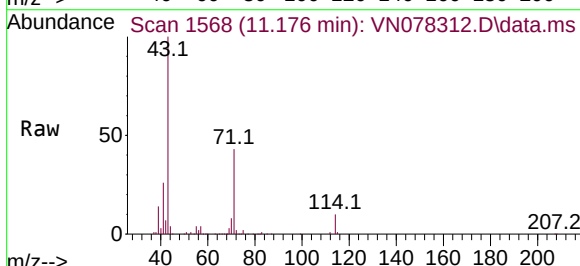
Acq: 20 Jun 2023 16:13

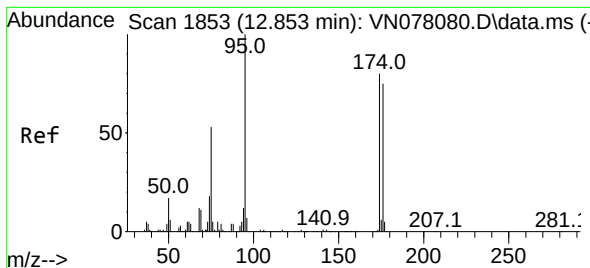
Tgt Ion: 43 Resp: 247119

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

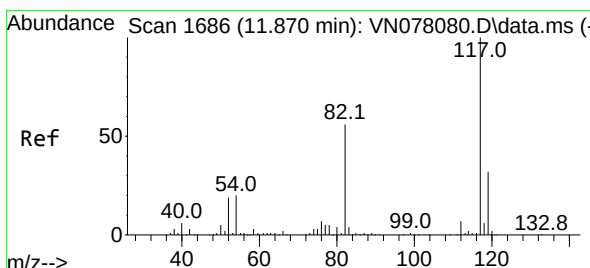
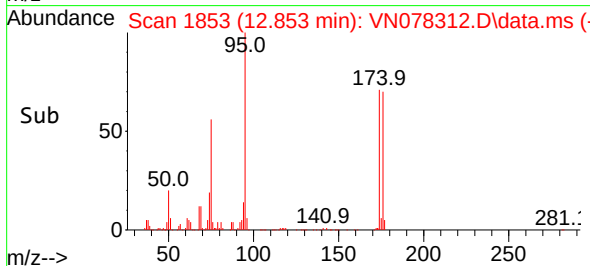
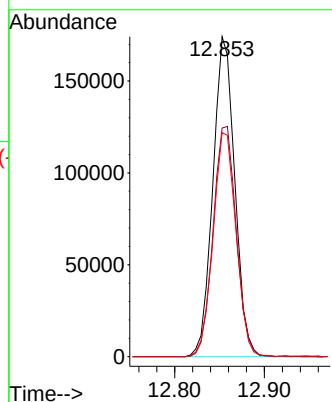
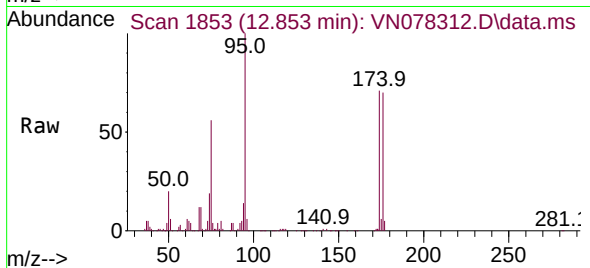




#62
4-Bromofluorobenzene
Concen: 49.066 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

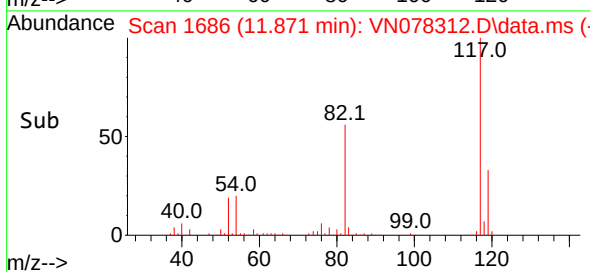
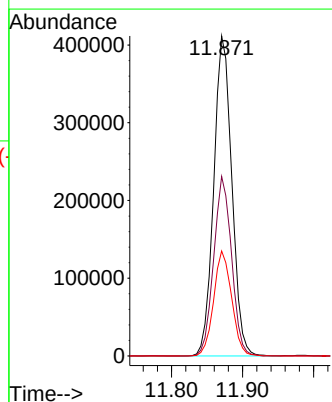
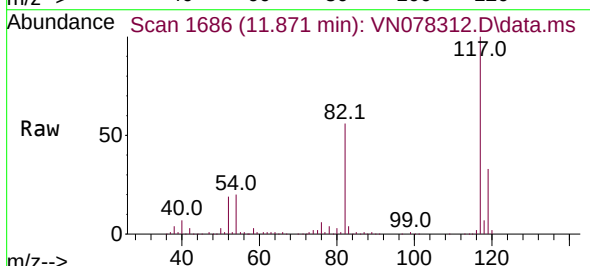
Instrument :
MSVOA_N
ClientSampleId :
WC-24

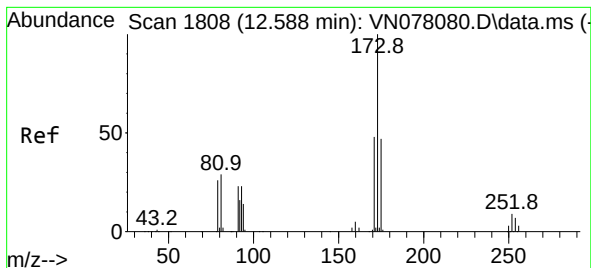
Tgt Ion: 95 Resp: 294828
Ion Ratio Lower Upper
95 100
174 76.0 0.0 143.8
176 73.3 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 117 Resp: 726505
Ion Ratio Lower Upper
117 100
82 56.1 44.0 66.0
119 32.8 25.6 38.4





#71

Bromoform

Concen: 0.965 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

WC-24

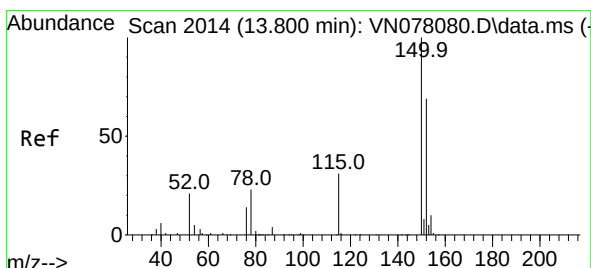
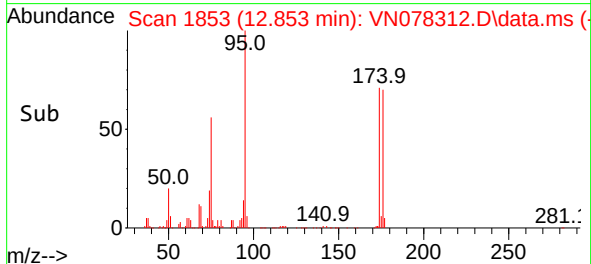
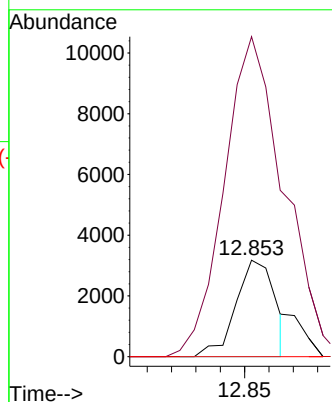
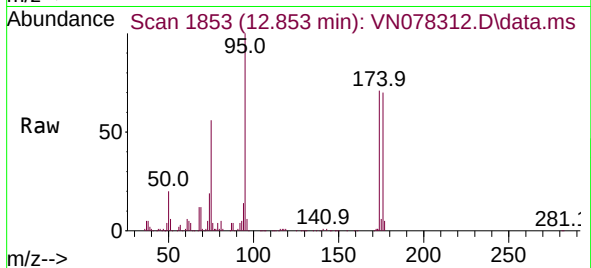
Tgt Ion:173 Resp: 3564

Ion Ratio Lower Upper

173 100

175 422.8 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN078312.D

Acq: 20 Jun 2023 16:13

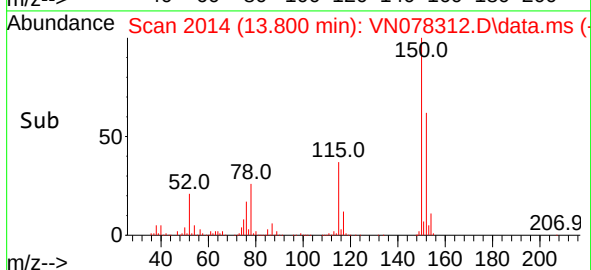
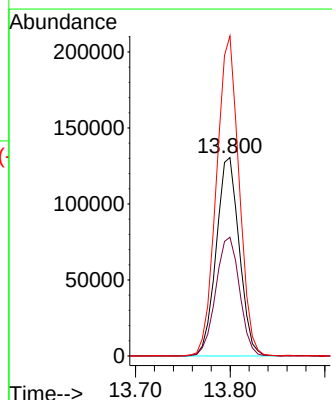
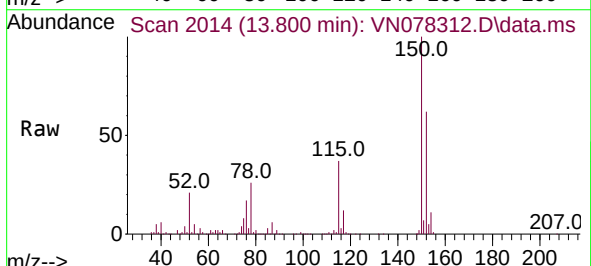
Tgt Ion:152 Resp: 220459

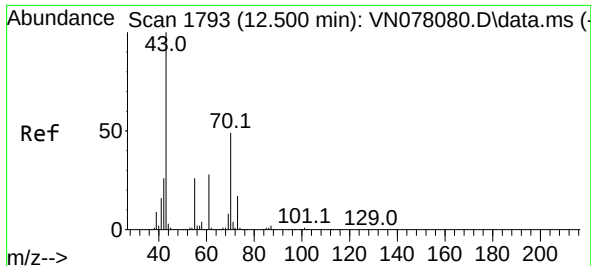
Ion Ratio Lower Upper

152 100

115 62.0 32.3 96.8

150 158.4 0.0 355.8

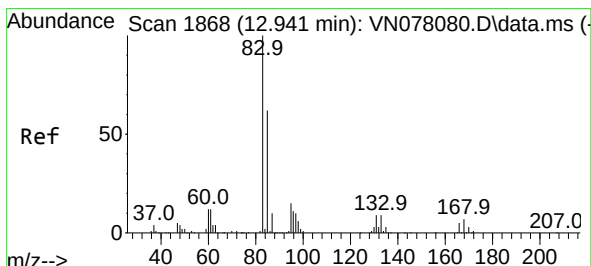
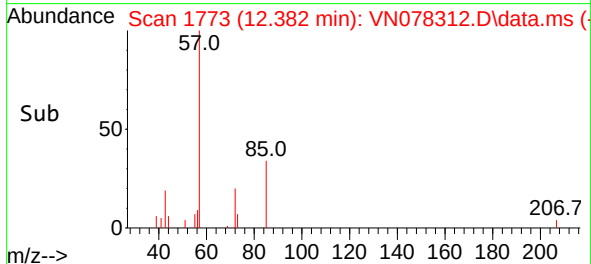
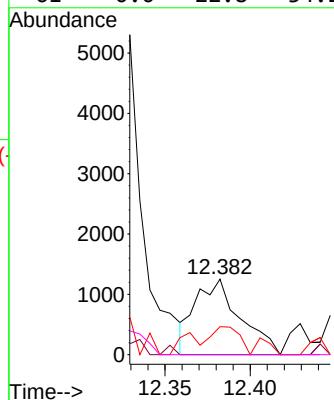
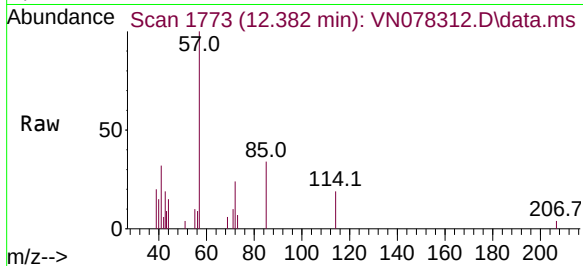




#74
N-amy1 acetate
Concen: 0.332 ug/l
RT: 12.382 min Scan# 11
Delta R.T. -0.118 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

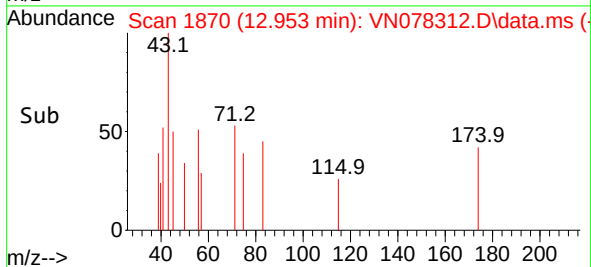
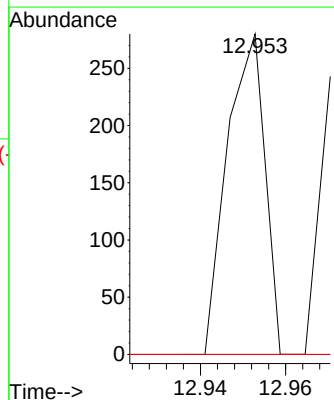
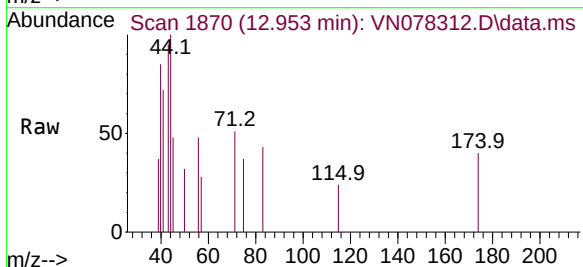
Instrument :
MSVOA_N
ClientSampleId :
WC-24

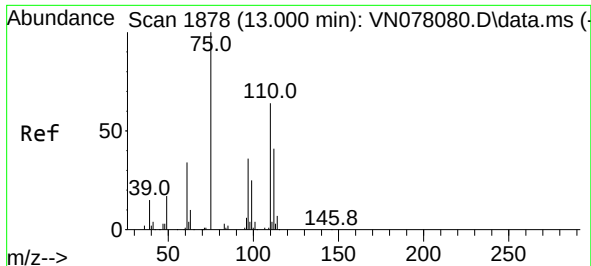
Tgt Ion: 43	Resp: 2281
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 23.9	21.4 32.0
61 0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.953 min Scan# 1870
Delta R.T. 0.012 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 83	Resp: 172
Ion Ratio	Lower Upper
83 100	
131 0.0	5.0 15.0#
85 0.0	31.9 95.7#

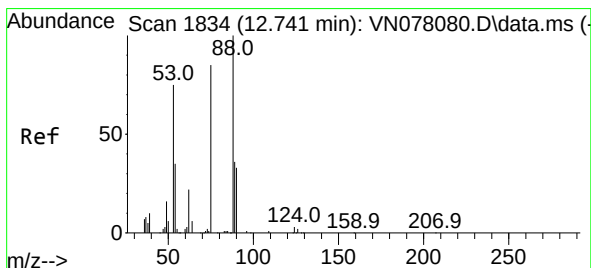
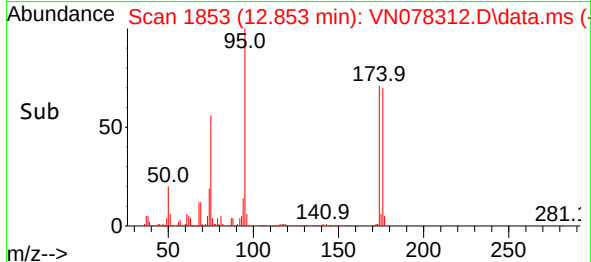
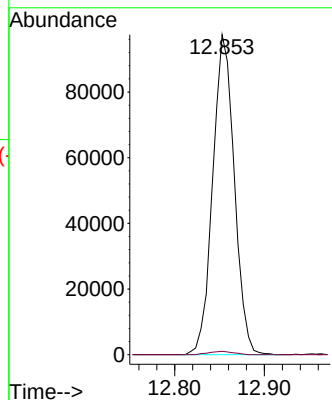
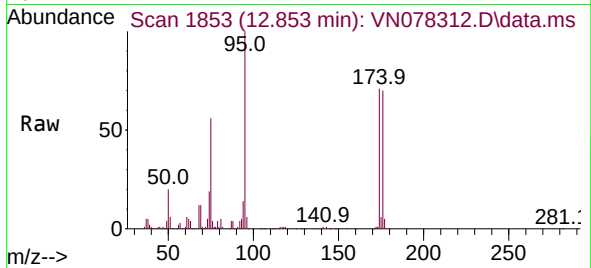




#76
1,2,3-Trichloropropane
Concen: 31.229 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Instrument :
MSVOA_N
ClientSampleId :
WC-24

Tgt Ion: 75 Resp: 162757
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 95.945 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078312.D
Acq: 20 Jun 2023 16:13

Tgt Ion: 75 Resp: 162757
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#

