

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062023\
 Data File : VN078308.D
 Acq On : 20 Jun 2023 14:36
 Operator : JC\MD
 Sample : 03321-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-21

Quant Time: Jun 21 05:46:55 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)

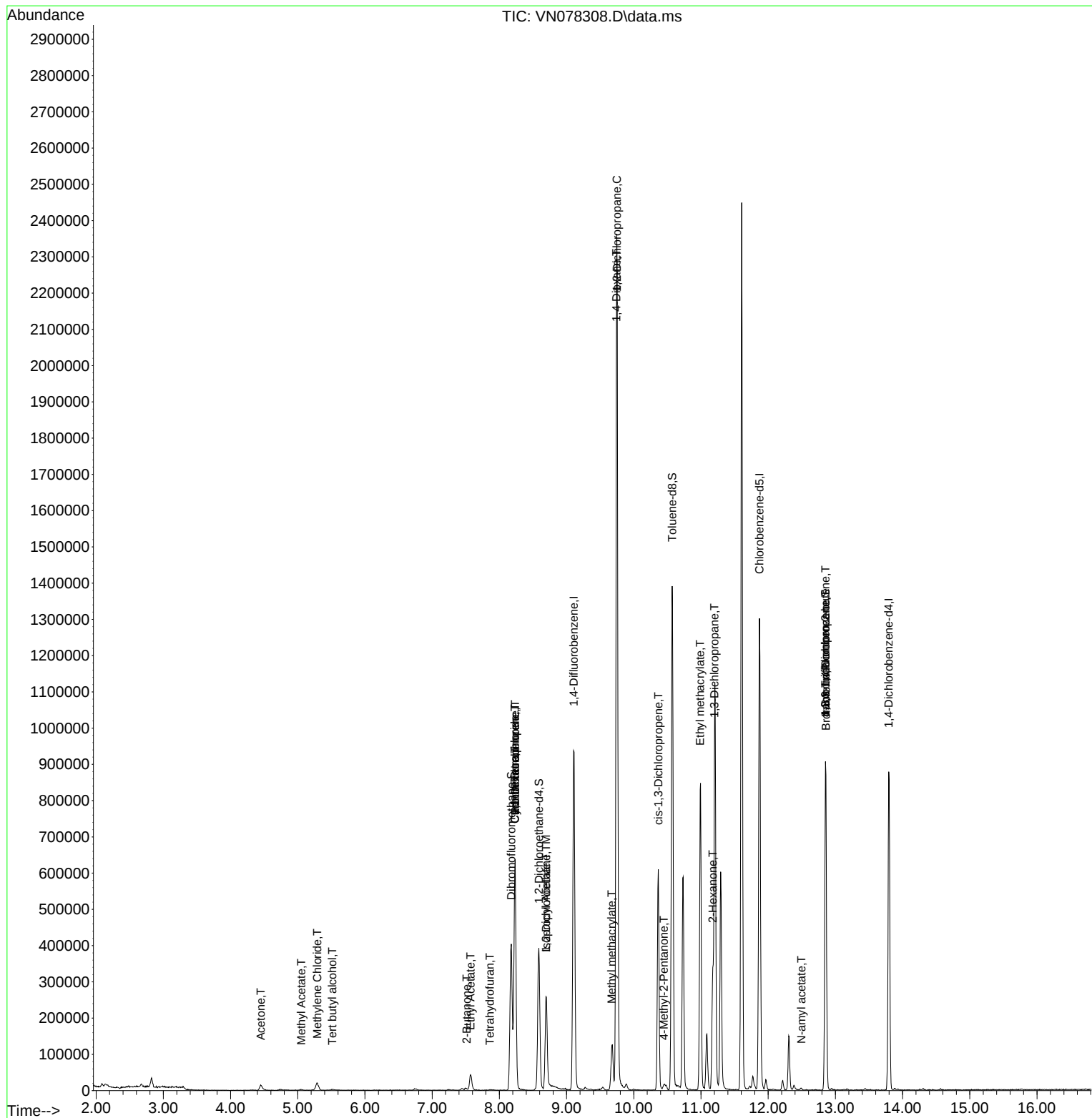
Internal Standards						
1) Pentafluorobenzene	8.236	168	449011	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	841094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	783961	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	242436	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	318987	53.283	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.560%	
35) Dibromofluoromethane	8.177	113	295514	55.567	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.140%	
50) Toluene-d8	10.571	98	999069	48.731	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.460%	
62) 4-Bromofluorobenzene	12.853	95	327512	51.386	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.780%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1351	Below Cal	#	77
11) Tert butyl alcohol	5.512	59	1508	1.824	ug/l #	72
16) Acetone	4.448	43	26573	15.421	ug/l	92
18) Methyl Acetate	5.053	43	4423	0.558	ug/l #	60
20) Methylene Chloride	5.289	84	14354	2.521	ug/l	92
25) 2-Butanone	7.512	43	7475	2.821	ug/l #	74
29) Tetrahydrofuran	7.859	42	561	0.317	ug/l #	60
31) Cyclohexane	8.230	56	11601	1.511	ug/l #	52
36) 1,1-Dichloropropene	8.236	75	40498	5.309	ug/l #	49
37) Ethyl Acetate	7.571	43	64230	10.778	ug/l	97
38) Carbon Tetrachloride	8.230	117	50150	6.226	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	2562	0.328	ug/l #	73
43) Isopropyl Acetate	8.694	43	298949	26.231	ug/l #	84
45) 1,2-Dichloropropane	9.747	63	3110	0.549	ug/l #	45
48) Methyl methacrylate	9.671	41	7887	1.649	ug/l #	33
49) 1,4-Dioxane	9.741	88	89	0.885	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	9935	1.655	ug/l	94
54) cis-1,3-Dichloropropene	10.365	75	110689	12.403	ug/l #	70
56) Ethyl methacrylate	10.988	69	3681	0.465	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	13382	1.458	ug/l #	42
59) 2-Hexanone	11.177	43	255319	61.100	ug/l #	19
71) Bromoform	12.859	173	2952	0.741	ug/l #	1
74) N-amyl acetate	12.494	43	2737	0.363	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.918	83	65	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	175526	30.626	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	175526	94.093	ug/l #	15

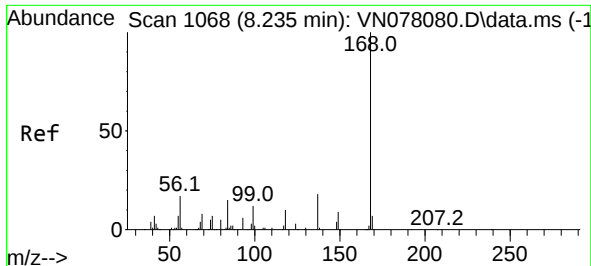
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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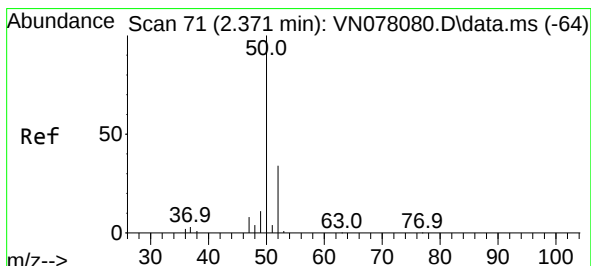
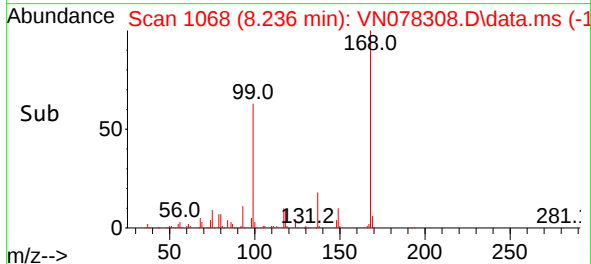
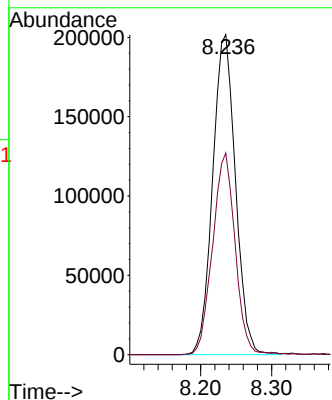
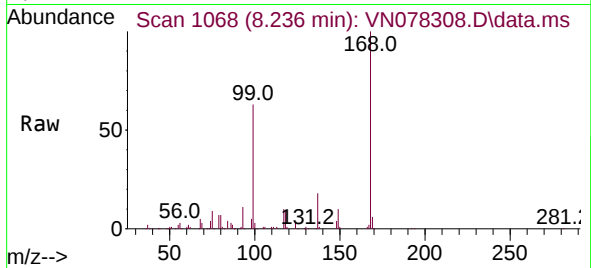




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.001 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

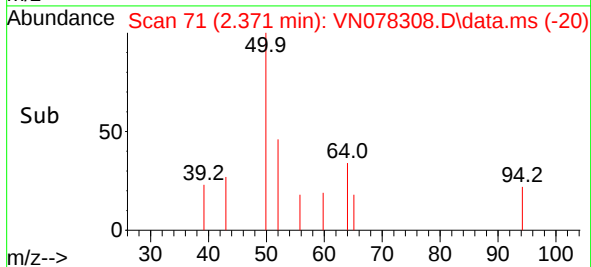
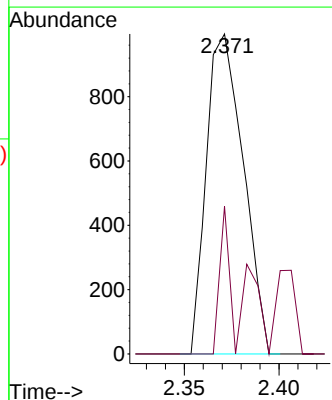
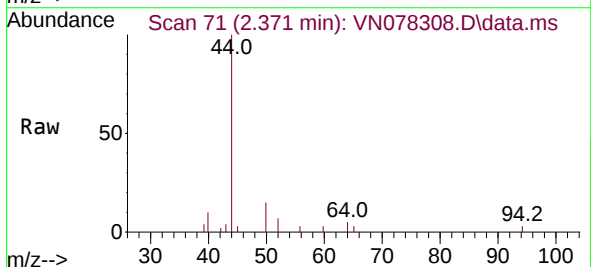
Instrument :
MSVOA_N
ClientSampleId :
WC-21

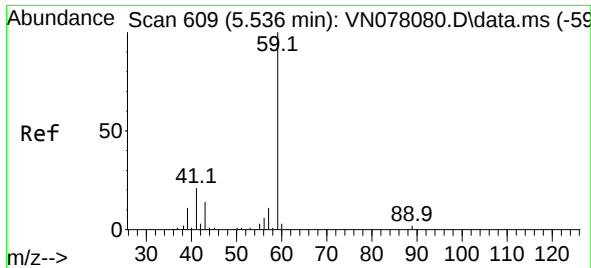
Tgt Ion:168 Resp: 449011
Ion Ratio Lower Upper
168 100
99 63.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 50 Resp: 1351
Ion Ratio Lower Upper
50 100
52 46.1 26.5 39.7#

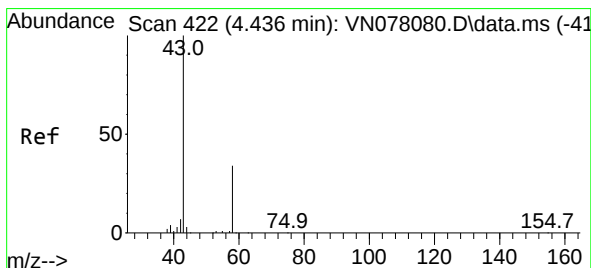
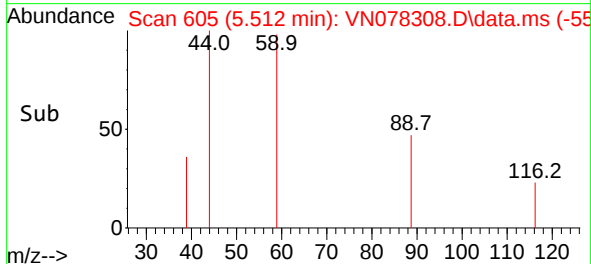
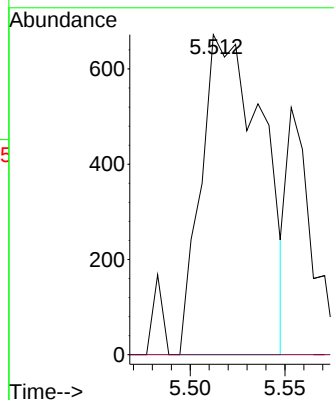
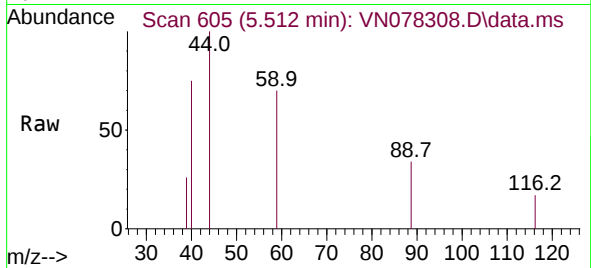




#11
Tert butyl alcohol
Concen: 1.824 ug/l
RT: 5.512 min Scan# 609
Delta R.T. -0.023 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

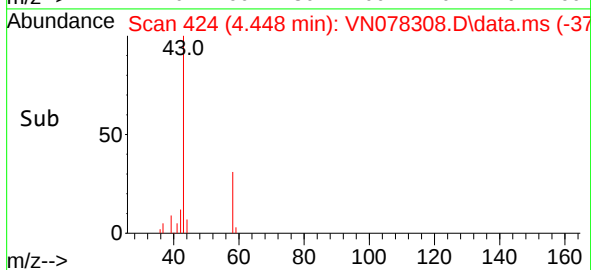
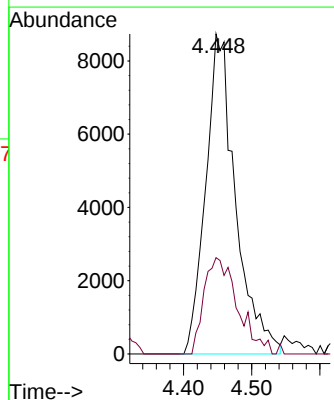
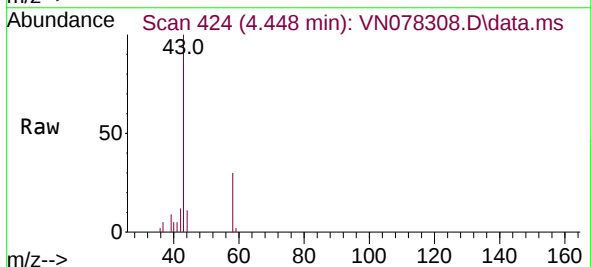
Instrument :
MSVOA_N
ClientSampleId :
WC-21

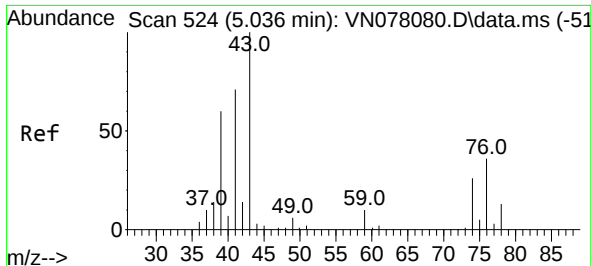
Tgt Ion: 59 Resp: 1508
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 15.421 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 43 Resp: 26573
Ion Ratio Lower Upper
43 100
58 30.1 28.0 42.0

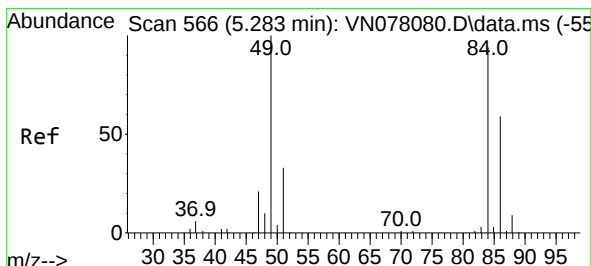
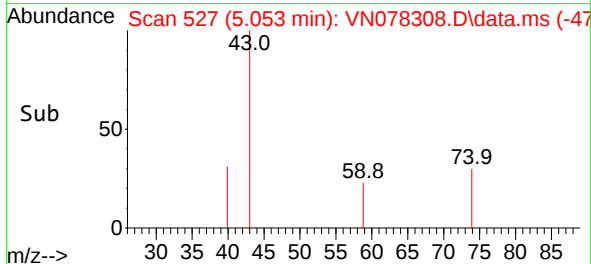
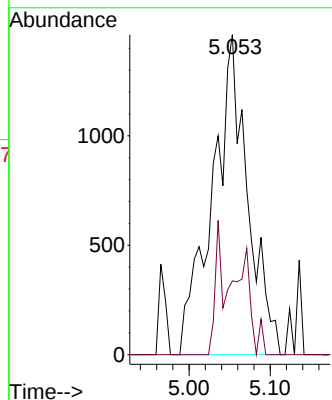
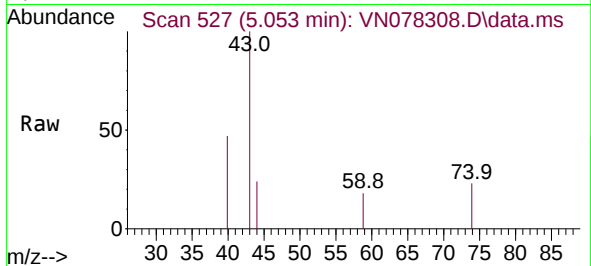




#18
Methyl Acetate
Concen: 0.558 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

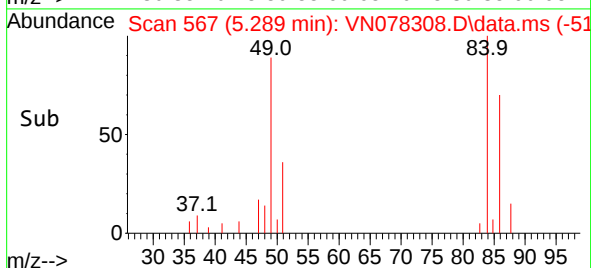
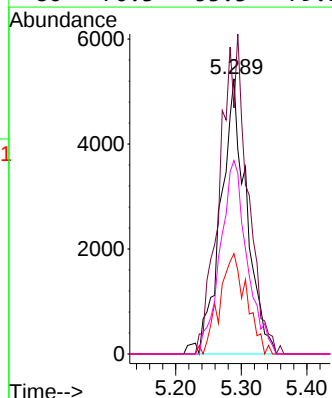
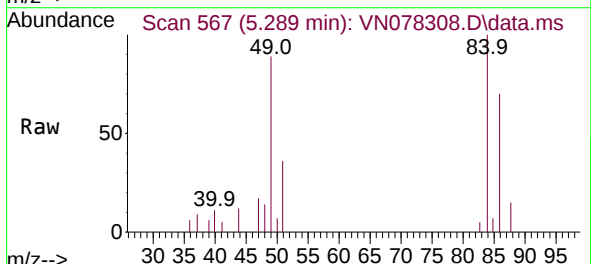
Instrument :
MSVOA_N
ClientSampleId :
WC-21

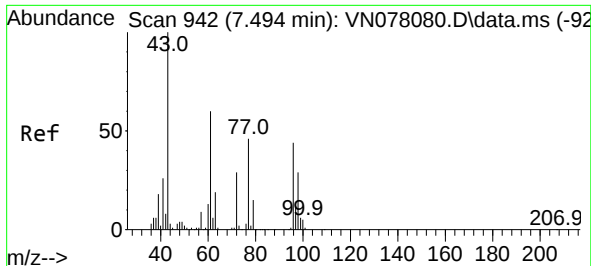
Tgt Ion: 43 Resp: 4423
Ion Ratio Lower Upper
43 100
74 10.2 26.2 39.4#



#20
Methylene Chloride
Concen: 2.521 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 84 Resp: 14354
Ion Ratio Lower Upper
84 100
49 89.4 79.7 119.5
51 36.5 25.2 37.8
86 70.3 53.3 79.9

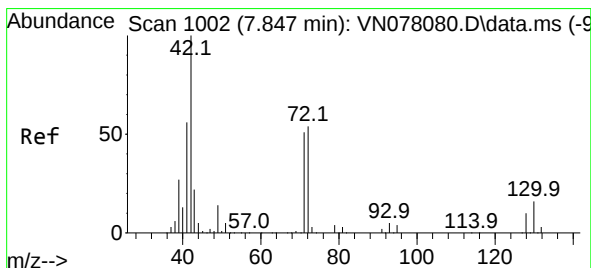
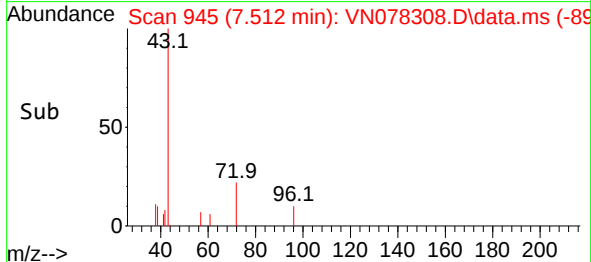
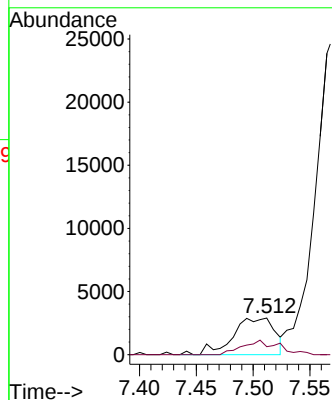
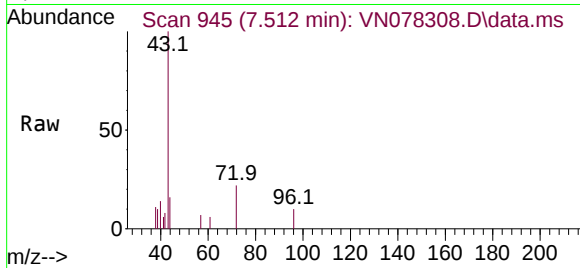




#25
2-Butanone
Concen: 2.821 ug/l
RT: 7.512 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

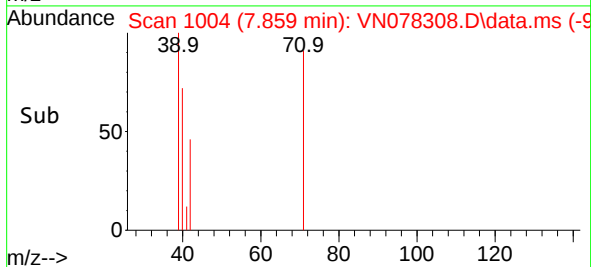
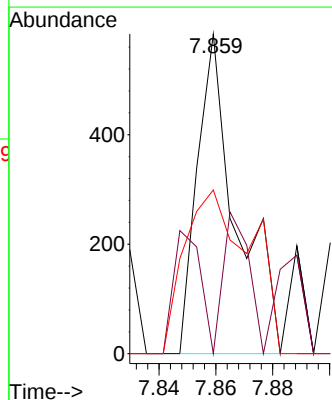
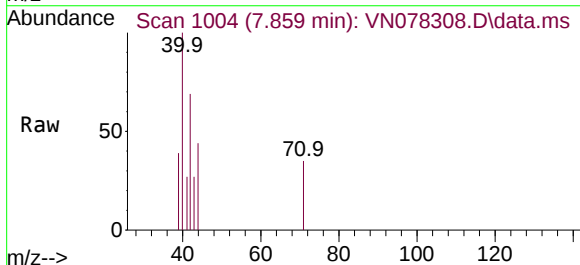
Instrument :
MSVOA_N
ClientSampleId :
WC-21

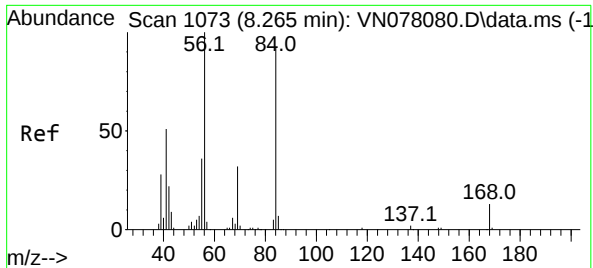
Tgt Ion: 43 Resp: 7475
Ion Ratio Lower Upper
43 100
72 21.9 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.317 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 42 Resp: 561
Ion Ratio Lower Upper
42 100
72 28.7 49.8 74.6#
71 86.1 47.4 71.2#

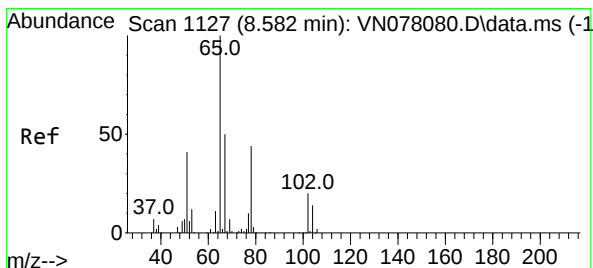
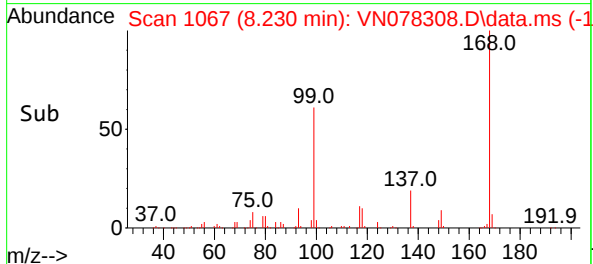
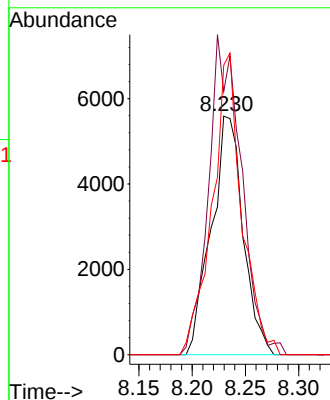
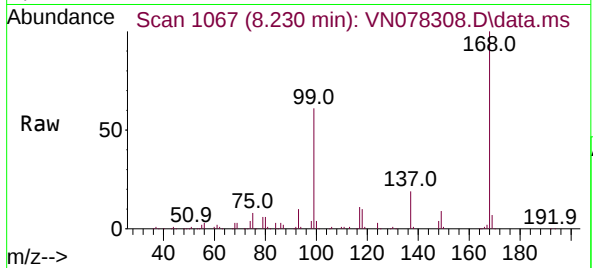




#31
Cyclohexane
Concen: 1.511 ug/l
RT: 8.230 min Scan# 1106
Delta R.T. -0.035 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

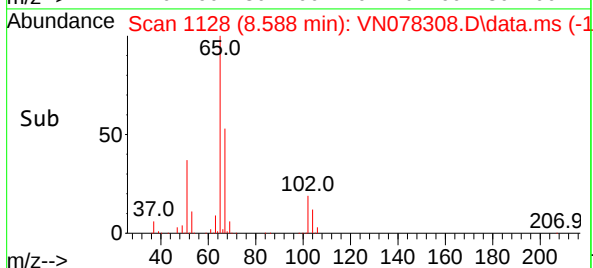
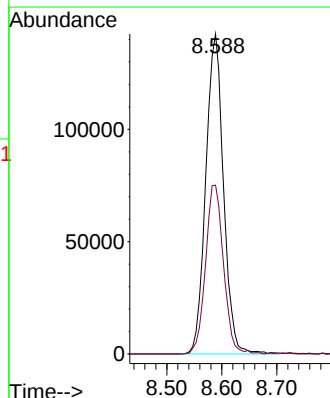
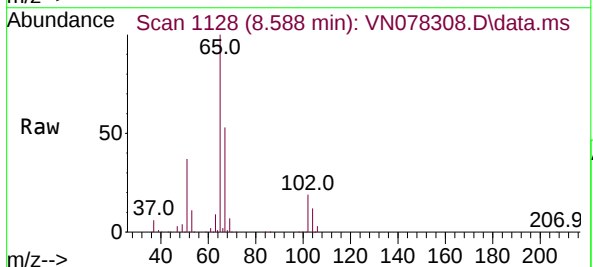
Instrument :
MSVOA_N
ClientSampleId :
WC-21

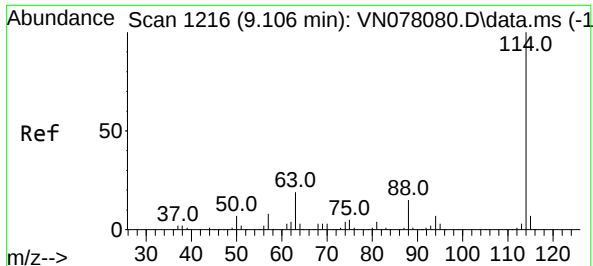
Tgt Ion: 56 Resp: 11601
Ion Ratio Lower Upper
56 100
69 110.3 26.8 40.2#
84 121.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.283 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 65 Resp: 318987
Ion Ratio Lower Upper
65 100
67 53.4 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: VN078308.D

Acq: 20 Jun 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

WC-21

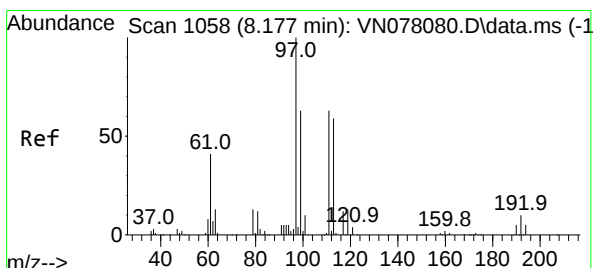
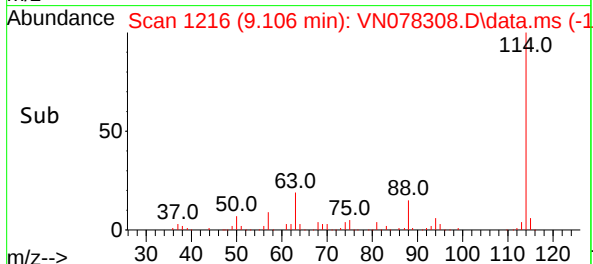
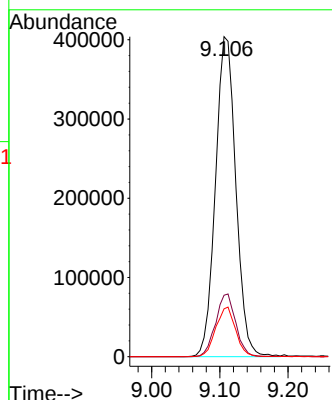
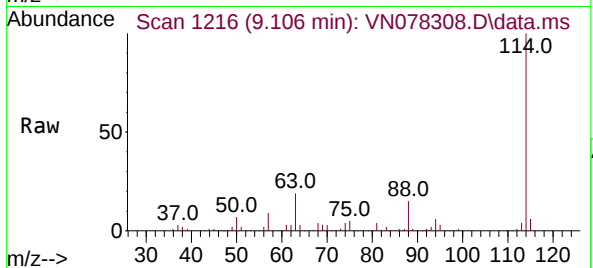
Tgt Ion:114 Resp: 841094

Ion Ratio Lower Upper

114 100

63 19.2 0.0 36.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.567 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078308.D

Acq: 20 Jun 2023 14:36

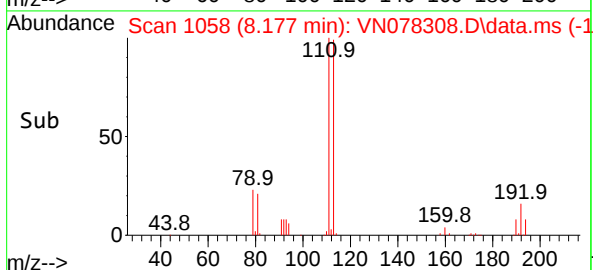
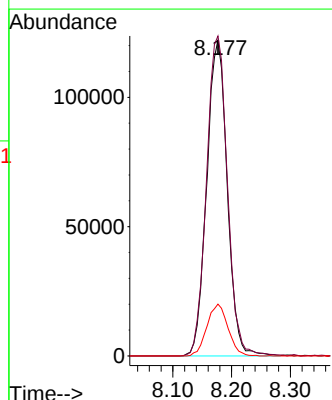
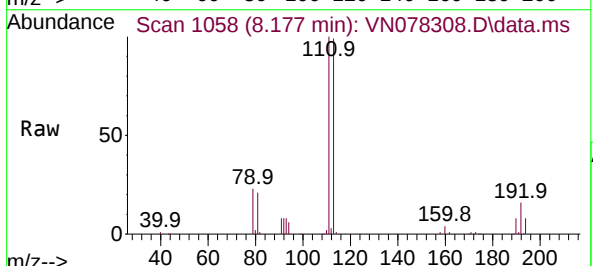
Tgt Ion:113 Resp: 295514

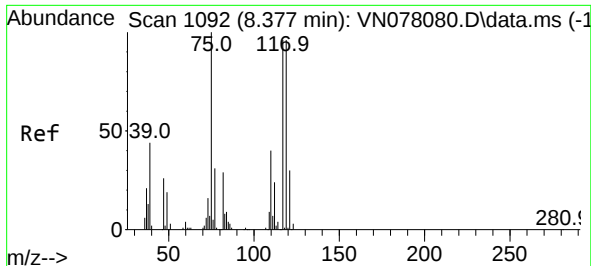
Ion Ratio Lower Upper

113 100

111 103.6 82.6 123.8

192 16.9 12.7 19.1

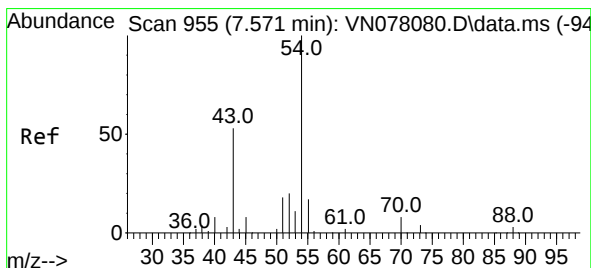
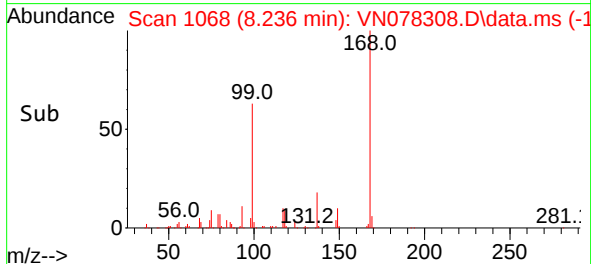
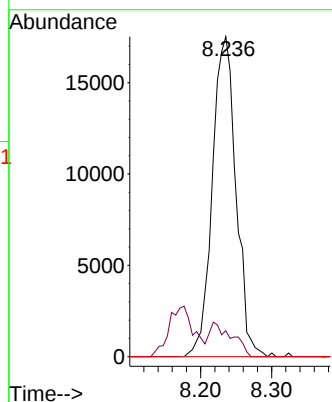
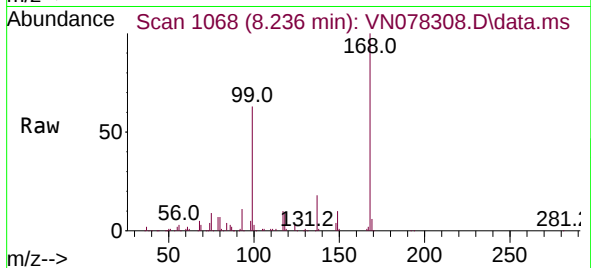




#36
1,1-Dichloropropene
Concen: 5.309 ug/l
RT: 8.236 min Scan# 1092
Delta R.T. -0.141 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

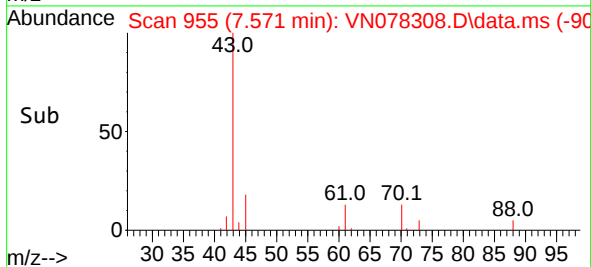
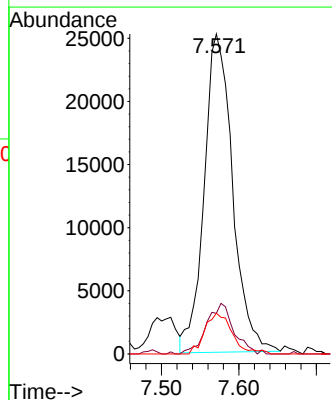
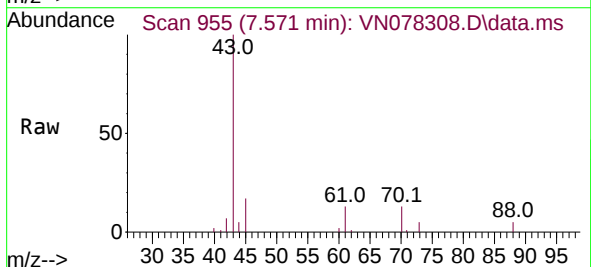
Instrument :
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ClientSampleId :
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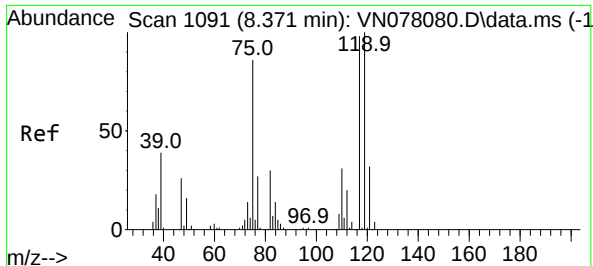
Tgt Ion: 75 Resp: 40498
Ion Ratio Lower Upper
75 100
110 10.2 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.778 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.000 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 43 Resp: 64230
Ion Ratio Lower Upper
43 100
61 15.3 13.2 19.8
70 12.4 11.3 16.9

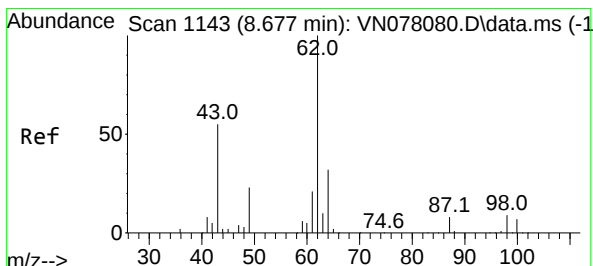
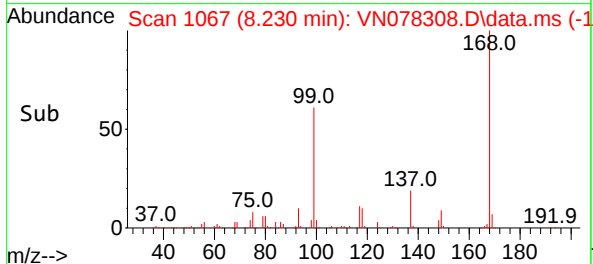
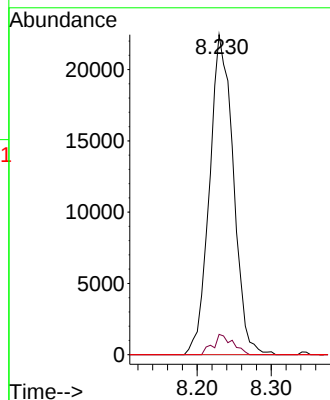
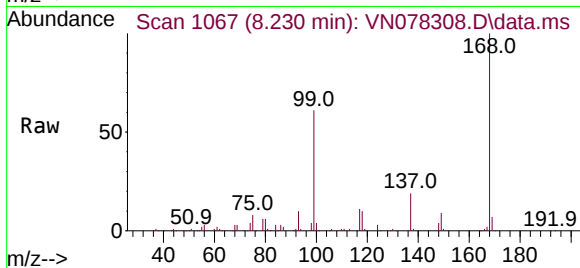




#38
Carbon Tetrachloride
Concen: 6.226 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

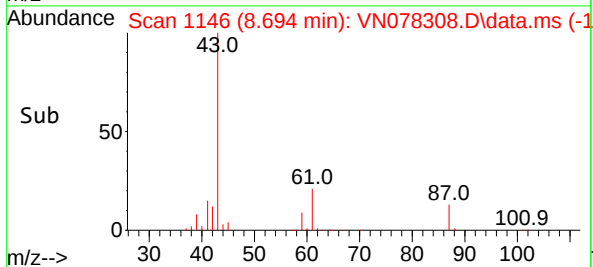
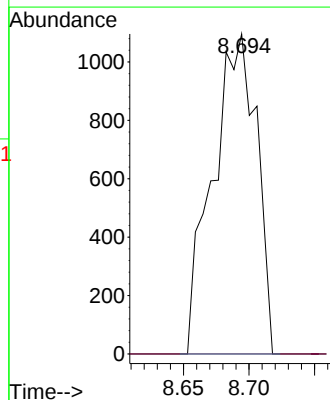
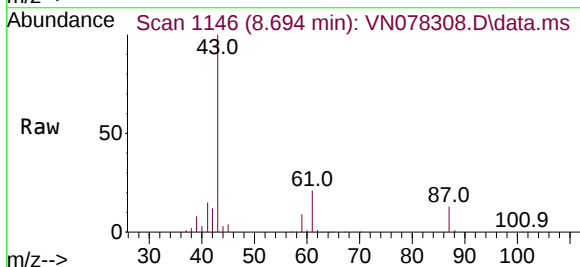
Instrument :
MSVOA_N
ClientSampleId :
WC-21

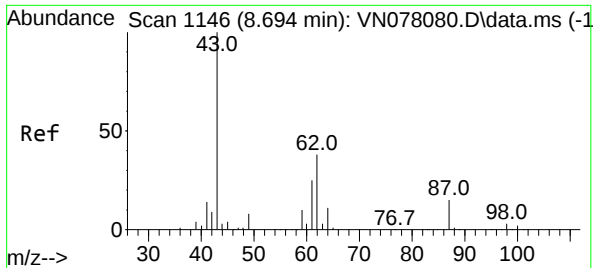
Tgt Ion:117 Resp: 50150
Ion Ratio Lower Upper
117 100
119 6.3 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.328 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.018 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 62 Resp: 2562
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

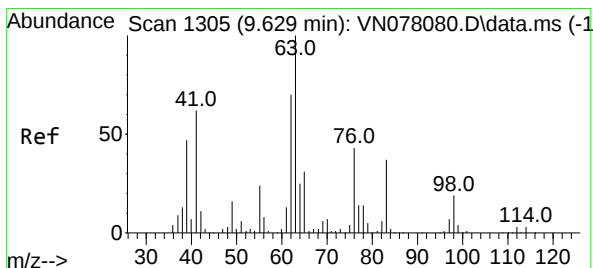
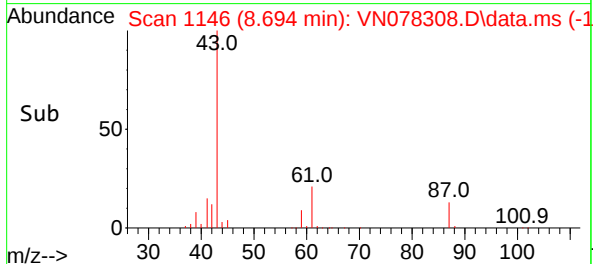
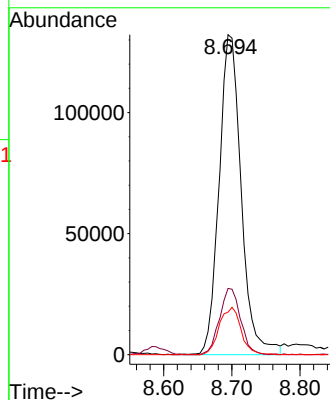
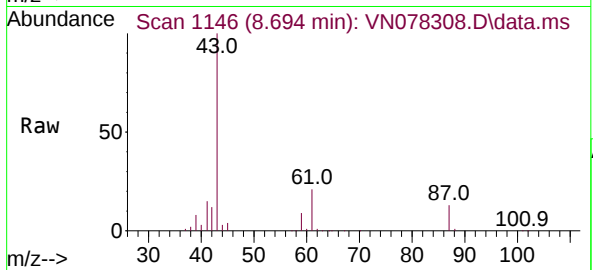




#43
Isopropyl Acetate
Concen: 26.231 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

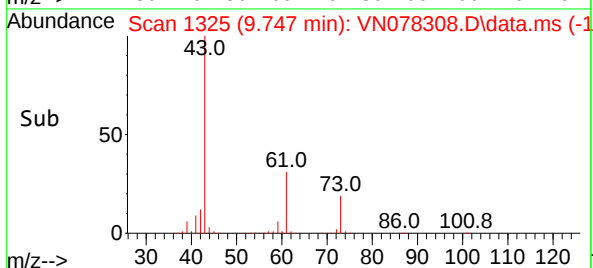
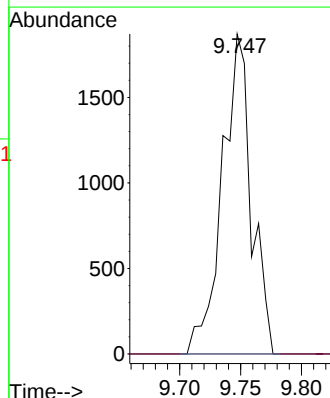
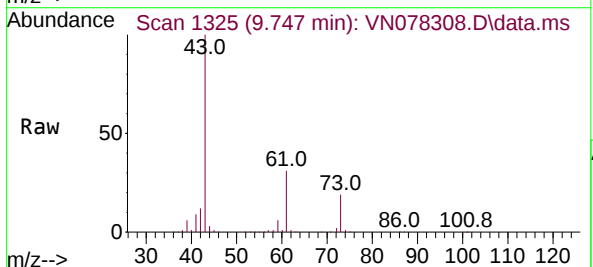
Instrument :
MSVOA_N
ClientSampleId :
WC-21

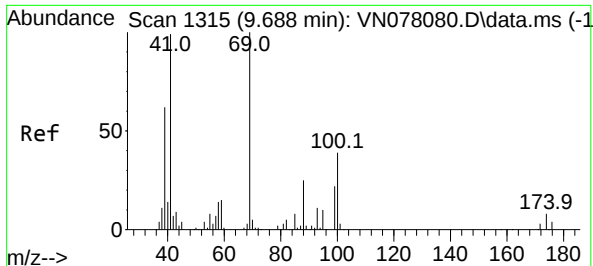
Tgt Ion: 43 Resp: 298949
Ion Ratio Lower Upper
43 100
61 19.6 24.7 37.1#
87 14.5 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.549 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.118 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 63 Resp: 3110
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

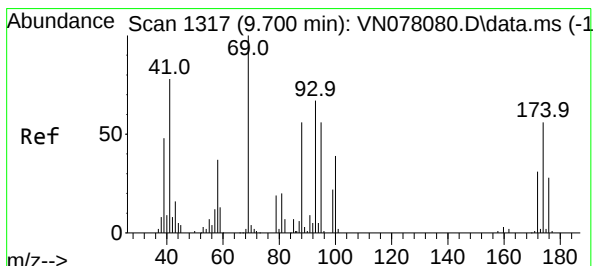
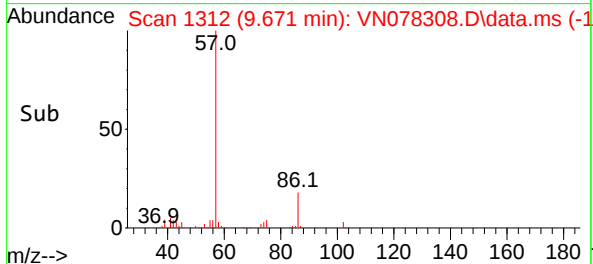
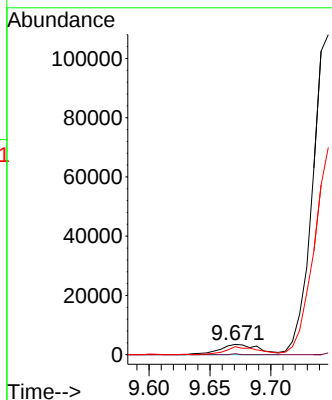
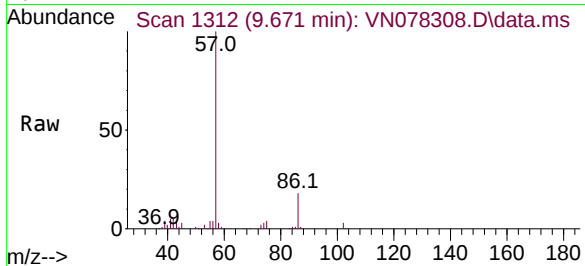




#48
Methyl methacrylate
Concen: 1.649 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

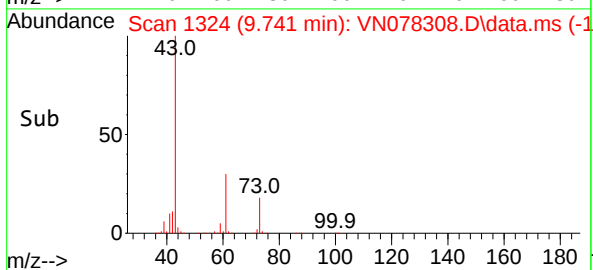
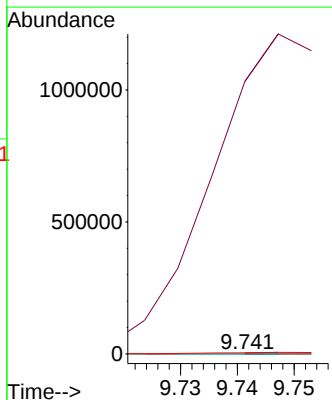
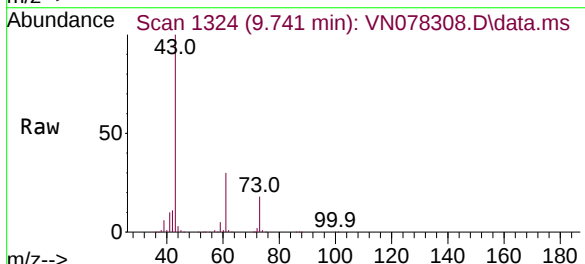
Instrument :
MSVOA_N
ClientSampleId :
WC-21

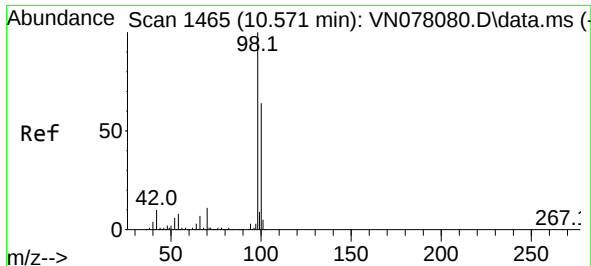
Tgt Ion: 41 Resp: 7887
Ion Ratio Lower Upper
41 100
69 1.4 90.4 135.6#
39 64.7 54.6 81.8



#49
1,4-Dioxane
Concen: 0.885 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.041 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 88 Resp: 89
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

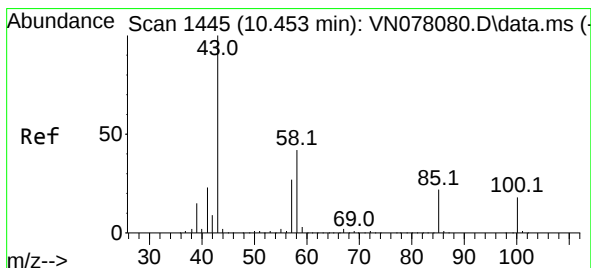
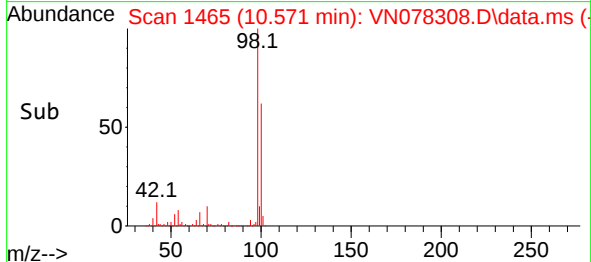
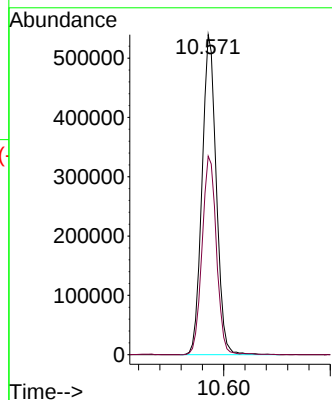
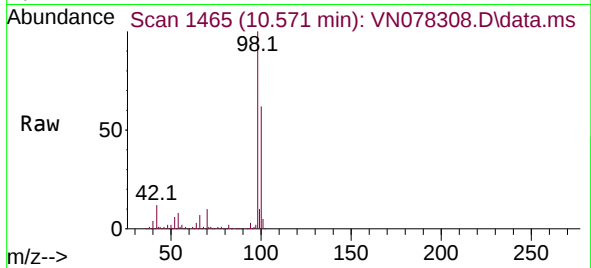




#50
Toluene-d8
Concen: 48.731 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

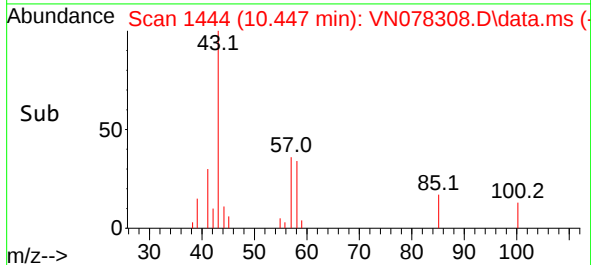
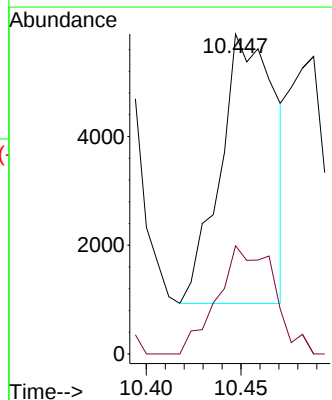
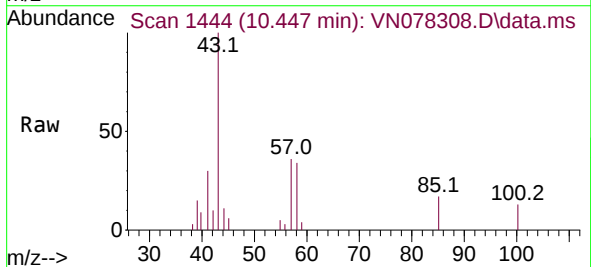
Instrument :
MSVOA_N
ClientSampleId :
WC-21

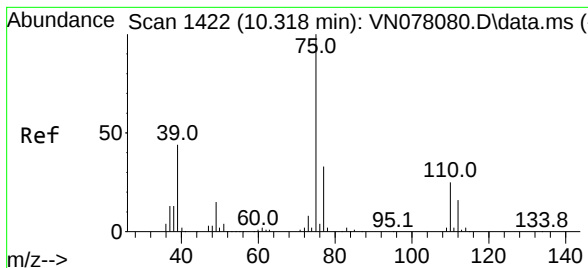
Tgt Ion: 98 Resp: 999069
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.655 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 43 Resp: 9935
Ion Ratio Lower Upper
43 100
58 41.4 36.6 54.8

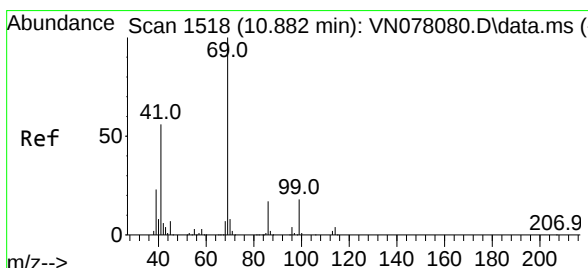
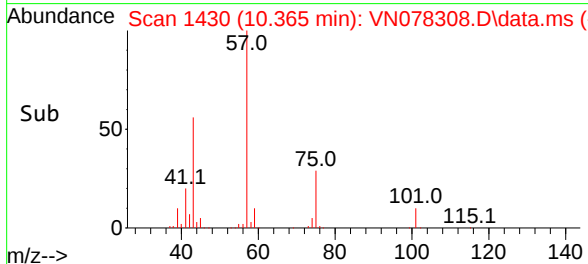
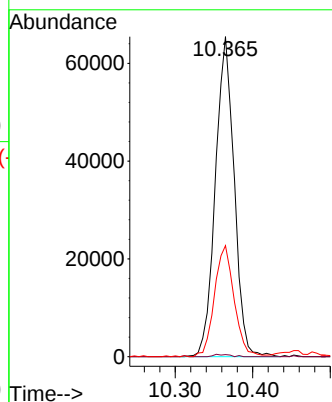
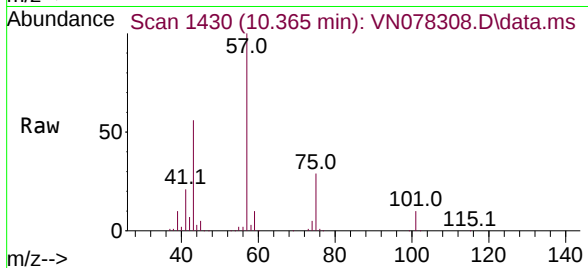




#54
 cis-1,3-Dichloropropene
 Concen: 12.403 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078308.D
 Acq: 20 Jun 2023 14:36

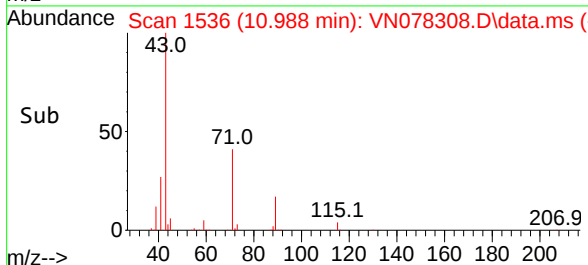
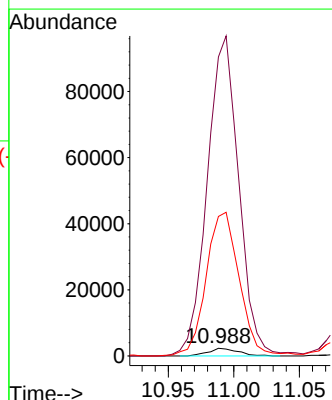
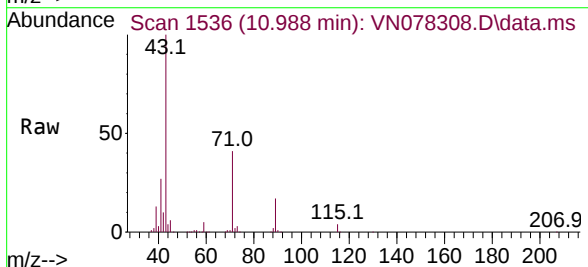
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-21

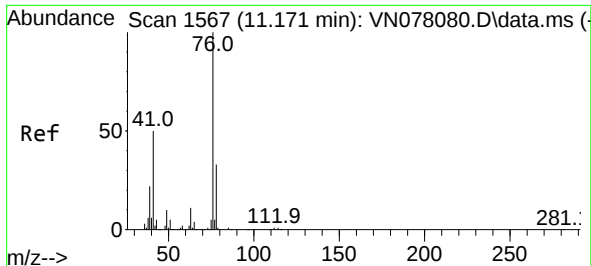
Tgt Ion: 75 Resp: 110689
 Ion Ratio Lower Upper
 75 100
 77 0.6 26.1 39.1#
 39 34.7 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.465 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.106 min
 Lab File: VN078308.D
 Acq: 20 Jun 2023 14:36

Tgt Ion: 69 Resp: 3681
 Ion Ratio Lower Upper
 69 100
 41 4414.5 39.6 59.4#
 39 2079.4 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.458 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.030 min

Lab File: VN078308.D

Acq: 20 Jun 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

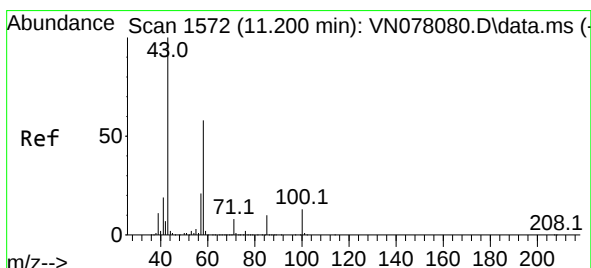
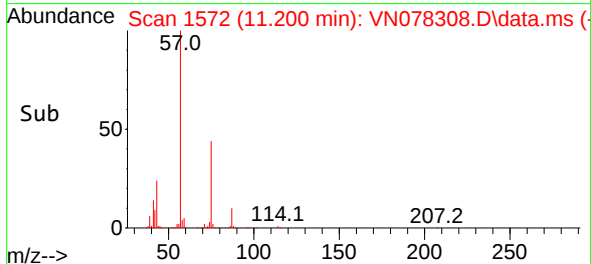
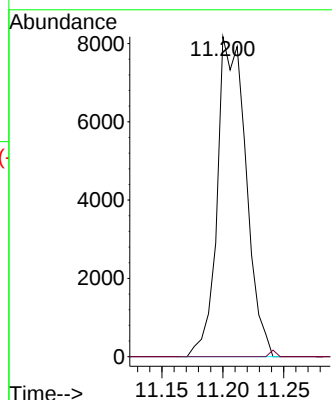
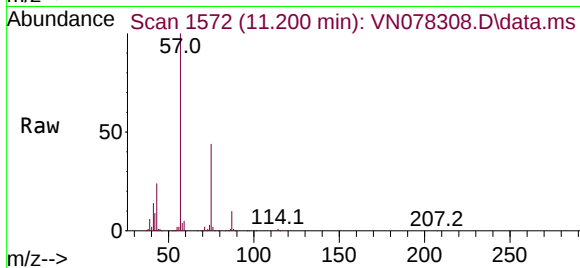
WC-21

Tgt Ion: 76 Resp: 13382

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 61.100 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN078308.D

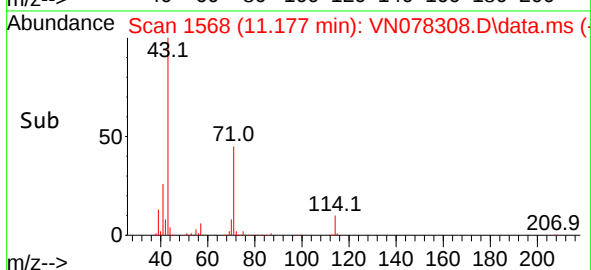
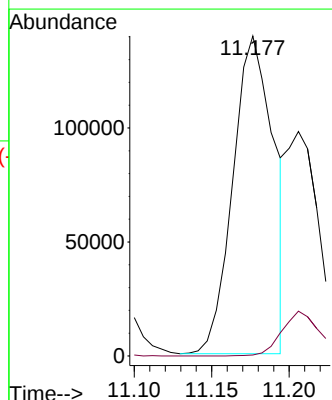
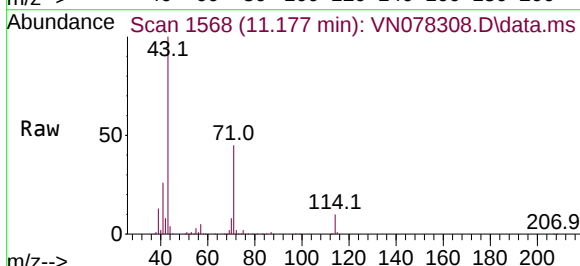
Acq: 20 Jun 2023 14:36

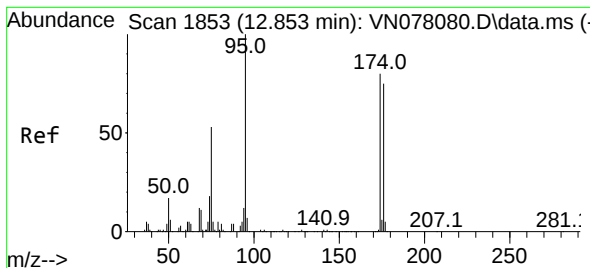
Tgt Ion: 43 Resp: 255319

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

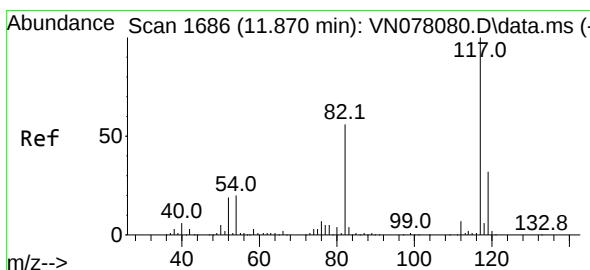
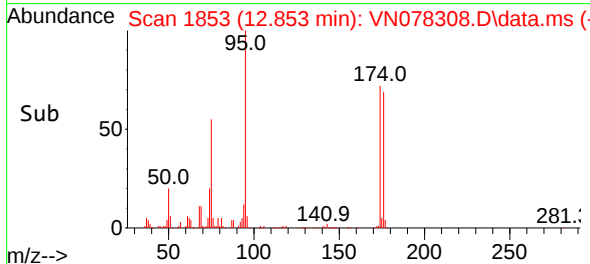
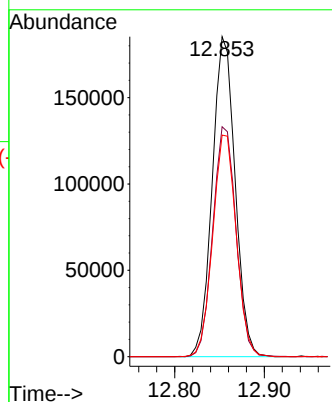
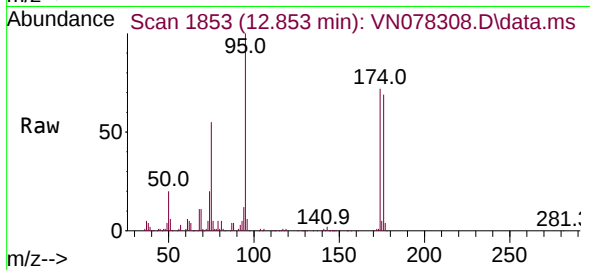




#62
4-Bromofluorobenzene
Concen: 51.386 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

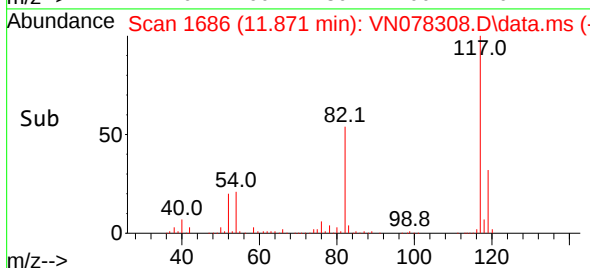
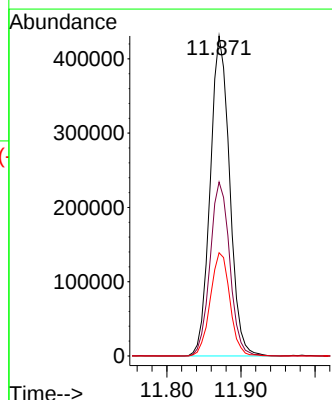
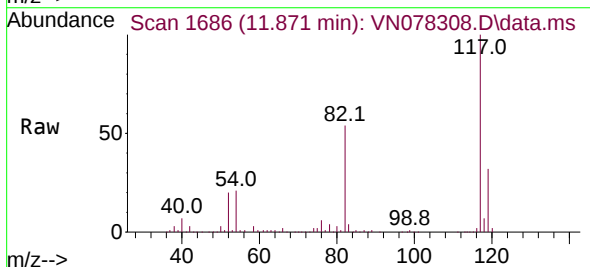
Instrument :
MSVOA_N
ClientSampleId :
WC-21

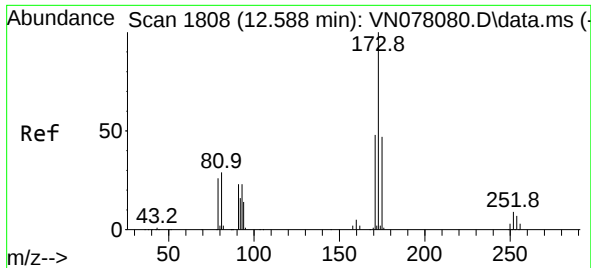
Tgt Ion: 95 Resp: 327512
Ion Ratio Lower Upper
95 100
174 73.1 0.0 143.8
176 71.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 117 Resp: 783961
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 32.2 25.6 38.4

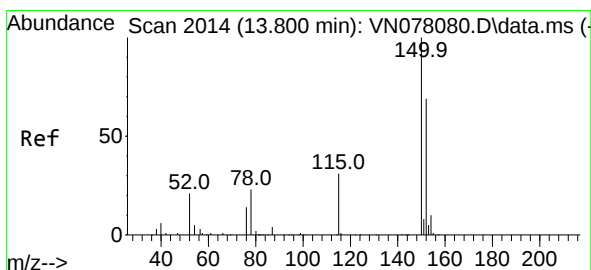
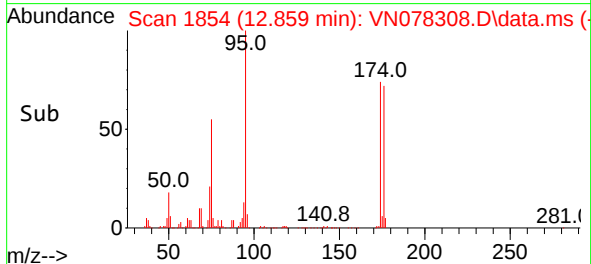
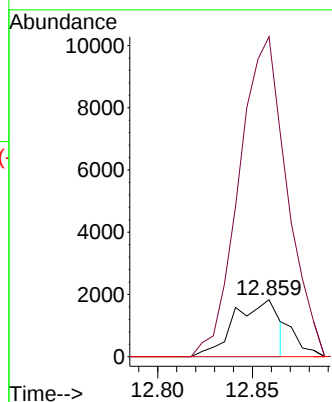
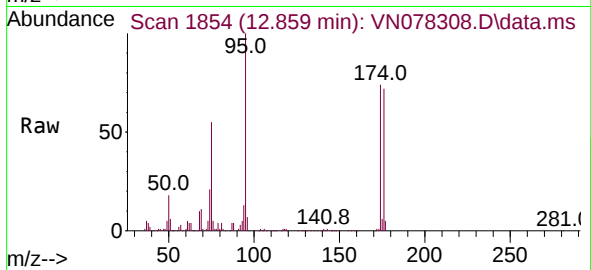




#71
Bromoform
Concen: 0.741 ug/l
RT: 12.859 min Scan# 1808
Delta R.T. 0.271 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

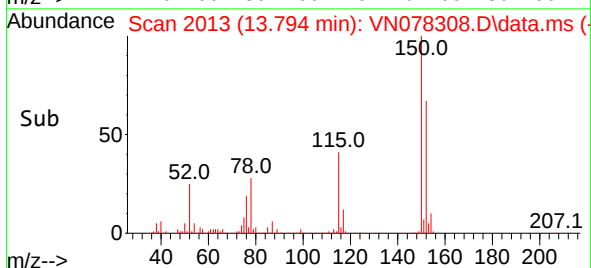
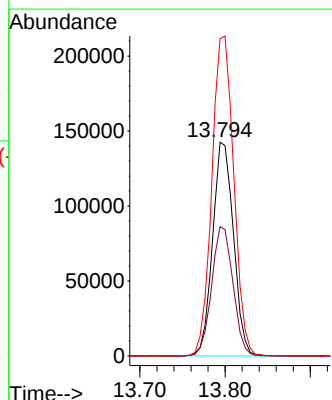
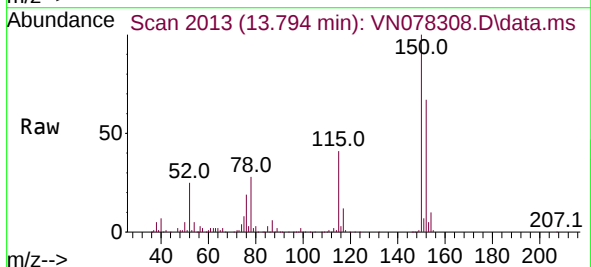
Instrument :
MSVOA_N
ClientSampleId :
WC-21

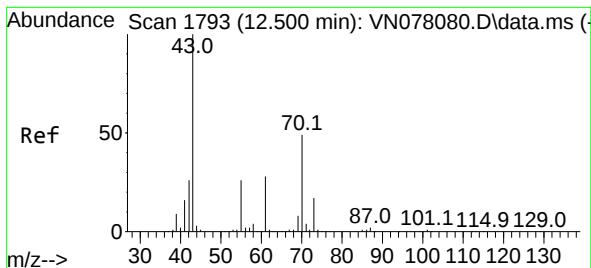
Tgt Ion:173 Resp: 2952
Ion Ratio Lower Upper
173 100
175 517.8 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion:152 Resp: 242436
Ion Ratio Lower Upper
152 100
115 61.7 32.3 96.8
150 157.0 0.0 355.8





#74

N-amy1 acetate

Concen: 0.363 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN078308.D

Acq: 20 Jun 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

WC-21

Tgt Ion: 43 Resp: 2737

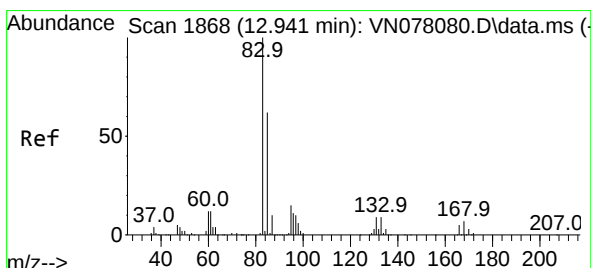
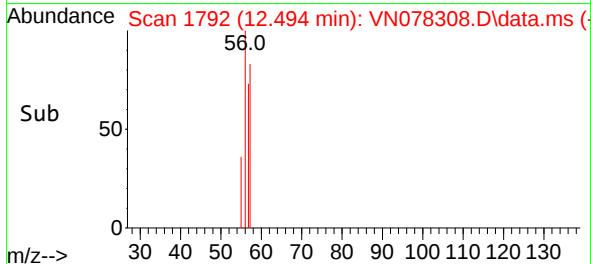
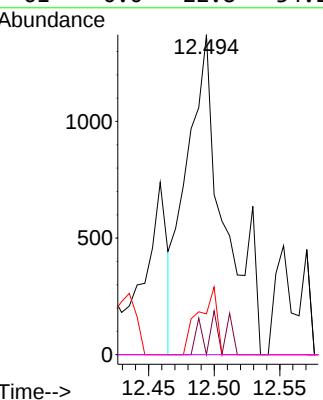
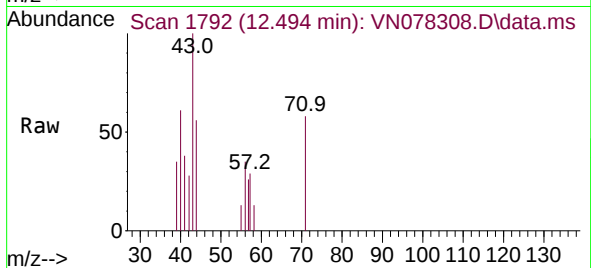
Ion Ratio Lower Upper

43 100

70 4.7 43.4 65.2#

55 10.3 21.4 32.0#

61 0.0 22.8 34.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.918 min Scan# 1864

Delta R.T. -0.023 min

Lab File: VN078308.D

Acq: 20 Jun 2023 14:36

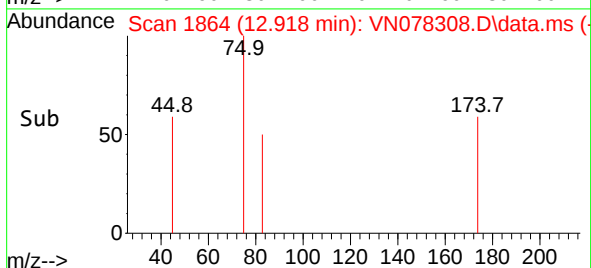
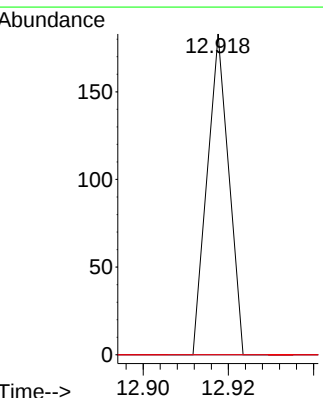
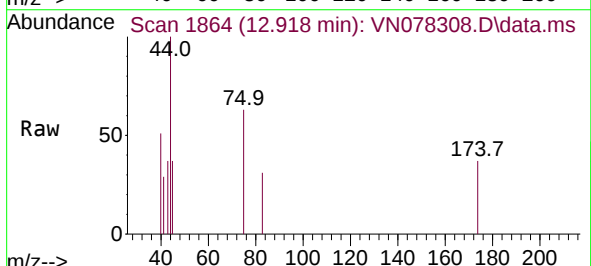
Tgt Ion: 83 Resp: 65

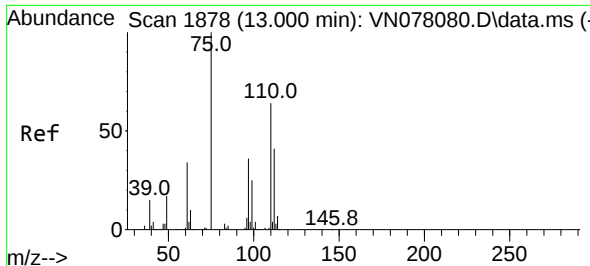
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#

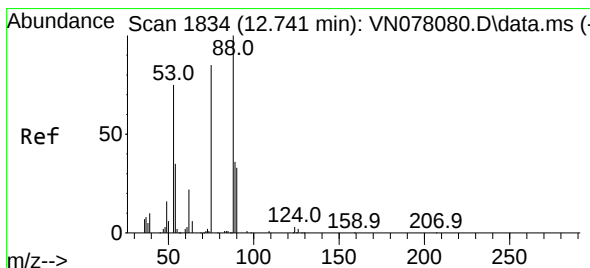
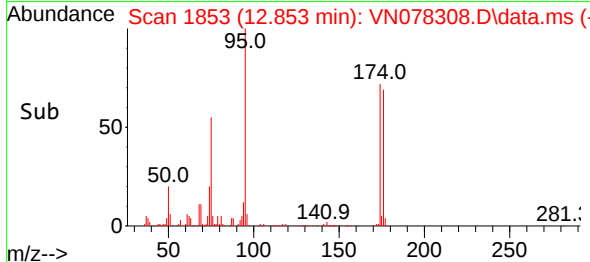
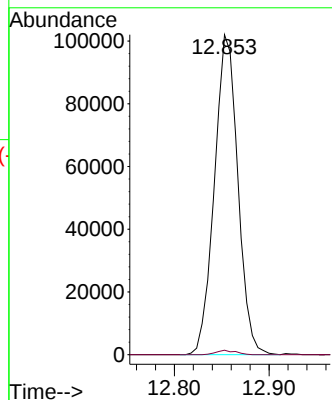
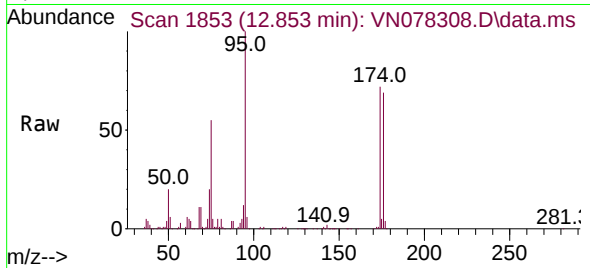




#76
1,2,3-Trichloropropane
Concen: 30.626 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Instrument :
MSVOA_N
ClientSampleId :
WC-21

Tgt Ion: 75 Resp: 175526
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.093 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078308.D
Acq: 20 Jun 2023 14:36

Tgt Ion: 75 Resp: 175526
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

