

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051623\
 Data File : VN077700.D
 Acq On : 16 May 2023 18:14
 Operator : JC\MD
 Sample : 02774-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-N-1

Quant Time: May 17 04:08:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

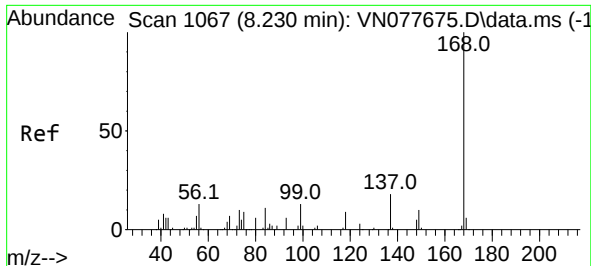
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	365071	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	669064	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	622619	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	240556	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	257695	47.176	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.360%		
35) Dibromofluoromethane	8.171	113	210825	48.322	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.640%		
50) Toluene-d8	10.570	98	837328	49.861	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.720%		
62) 4-Bromofluorobenzene	12.859	95	283557	47.809	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.620%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	3555	Below Cal	#	42
6) Chloroethane	2.994	64	1826	0.484	ug/l #	78
8) Diethyl Ether	3.965	74	595	0.223	ug/l #	56
11) Tert butyl alcohol	5.536	59	1124	1.491	ug/l #	94
13) Acrolein	4.177	56	158	Below Cal	#	41
16) Acetone	4.441	43	59904	34.857	ug/l	88
20) Methylene Chloride	5.283	84	20462	2.706	ug/l	89
25) 2-Butanone	7.506	43	5643	2.099	ug/l	100
29) Tetrahydrofuran	7.859	42	760	0.432	ug/l #	35
31) Cyclohexane	8.224	56	9111	1.227	ug/l #	42
36) 1,1-Dichloropropene	8.235	75	31757	4.976	ug/l #	49
37) Ethyl Acetate	7.571	43	72841	12.807	ug/l	97
38) Carbon Tetrachloride	8.229	117	40607	6.302	ug/l #	15
42) 1,2-Dichloroethane	8.700	62	2031	0.297	ug/l #	73
43) Isopropyl Acetate	8.694	43	294095	31.656	ug/l #	84
48) Methyl methacrylate	9.676	41	8433	1.915	ug/l #	32
49) 1,4-Dioxane	9.712	88	90	1.082	ug/l #	30
51) 4-Methyl-2-Pentanone	10.453	43	21380	3.872	ug/l #	73
54) cis-1,3-Dichloropropene	10.365	75	110542	14.395	ug/l #	68
57) 1,3-Dichloropropane	11.206	76	13518	1.694	ug/l #	43
59) 2-Hexanone	11.176	43	251337	61.532	ug/l #	19
71) Bromoform	12.847	173	1293	0.416	ug/l #	28
74) N-amyl acetate	12.494	43	3124	0.408	ug/l #	39
76) 1,2,3-Trichloropropane	12.859	75	151559	25.158	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	151559	80.417	ug/l #	15

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

Quant Time: May 17 04:08:10 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
Quant Title : SW846 8260
QLast Update : Tue May 16 04:07:42 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

Instrument :

MSVOA_N

ClientSampleId :

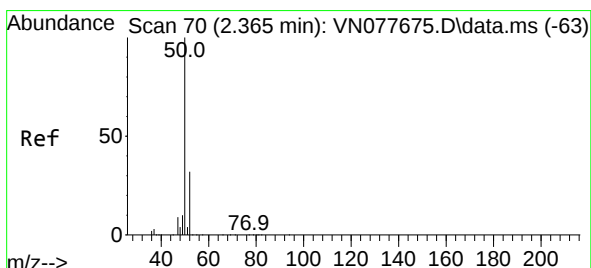
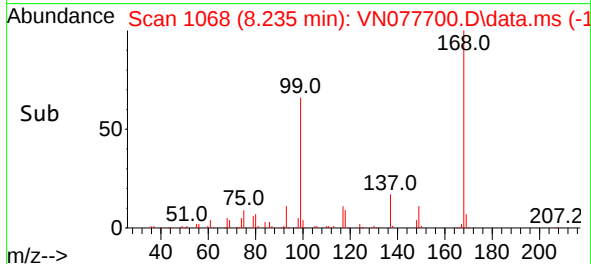
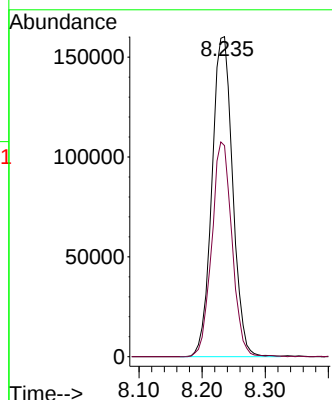
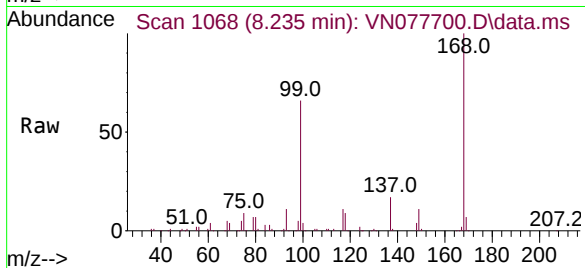
WC-N-1

Tgt Ion:168 Resp: 365071

Ion Ratio Lower Upper

168 100

99 65.9 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN077700.D

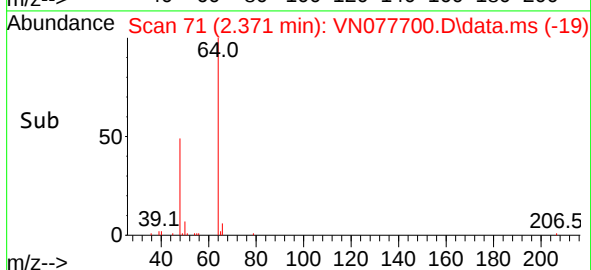
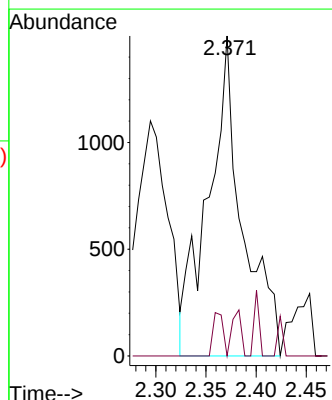
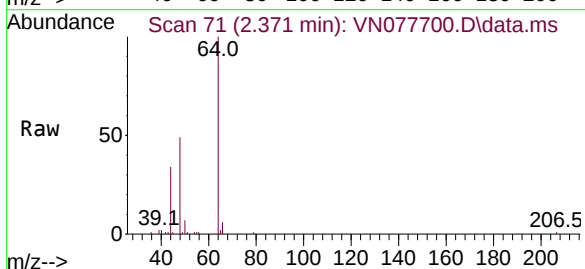
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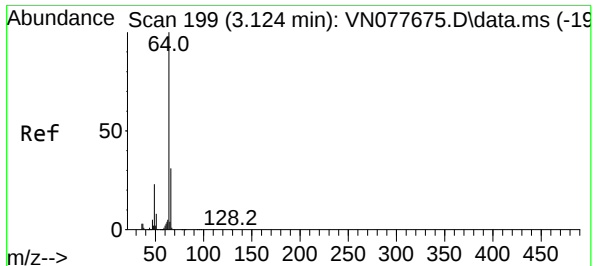
Tgt Ion: 50 Resp: 3555

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

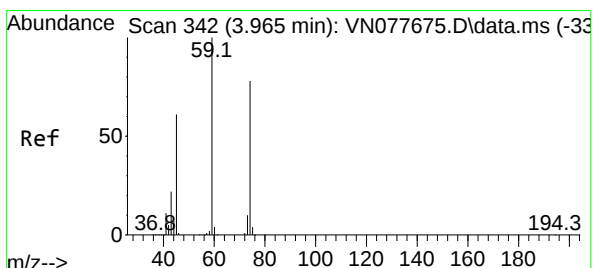
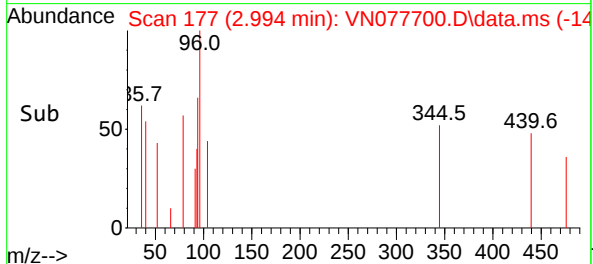
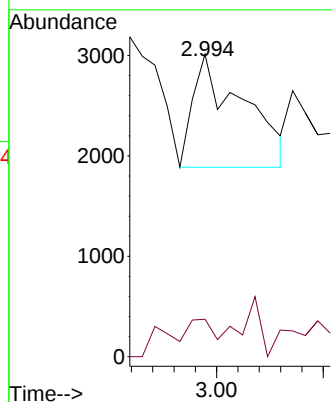
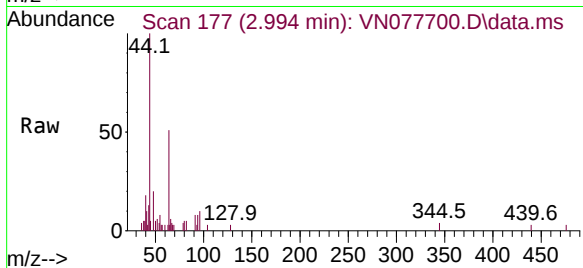




#6
Chloroethane
Concen: 0.484 ug/l
RT: 2.994 min Scan# 11
Delta R.T. -0.130 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

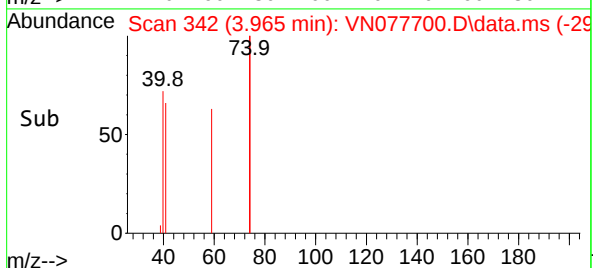
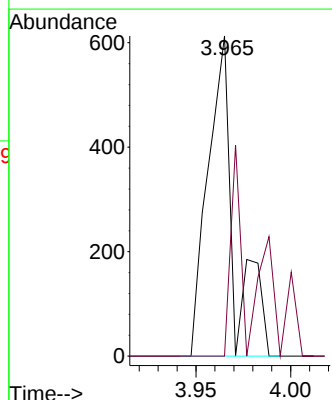
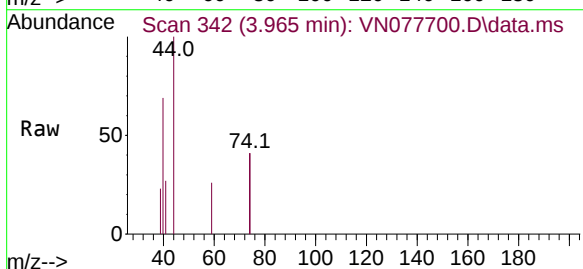
Instrument :
MSVOA_N
ClientSampleId :
WC-N-1

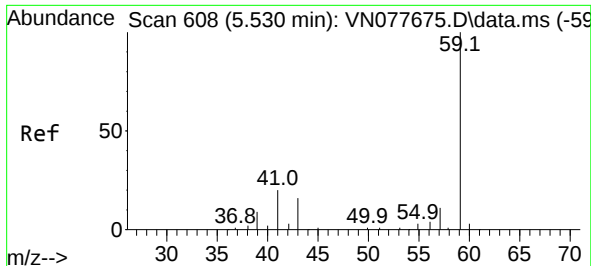
Tgt Ion: 64 Resp: 1826
Ion Ratio Lower Upper
64 100
66 19.8 25.4 38.2#



#8
Diethyl Ether
Concen: 0.223 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 74 Resp: 595
Ion Ratio Lower Upper
74 100
45 32.9 34.4 103.3#

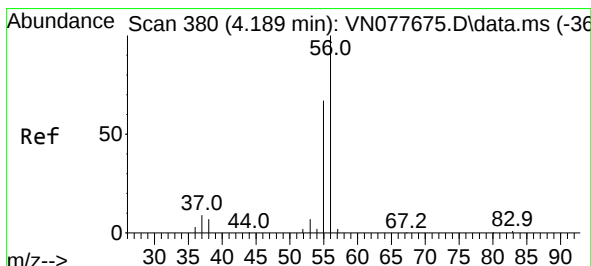
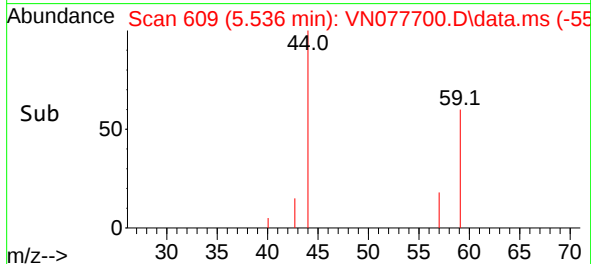
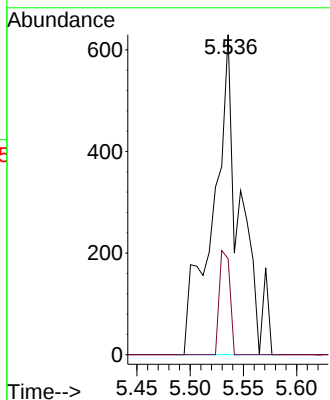
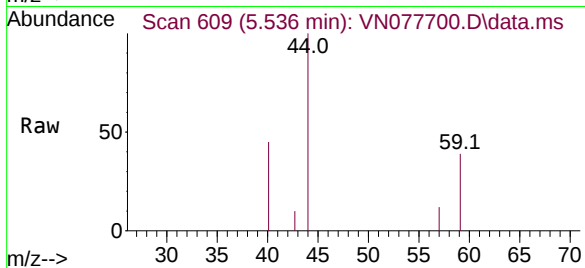




#11
Tert butyl alcohol
Concen: 1.491 ug/l
RT: 5.536 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

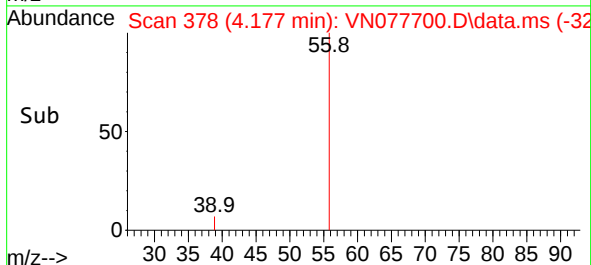
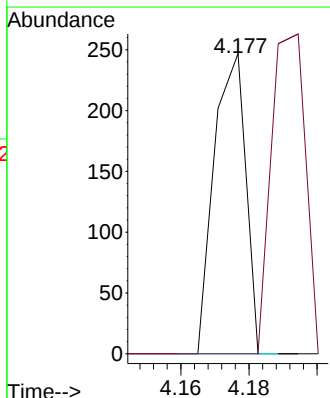
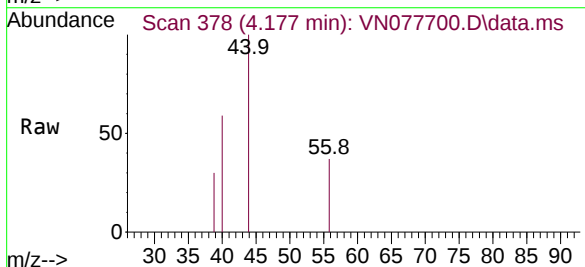
Instrument :
MSVOA_N
ClientSampleId :
WC-N-1

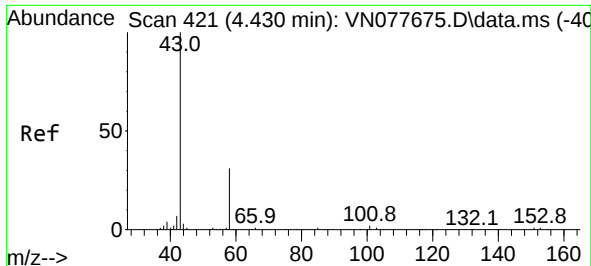
Tgt Ion: 59 Resp: 1124
Ion Ratio Lower Upper
59 100
57 12.4 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 4.177 min Scan# 378
Delta R.T. -0.012 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 115.8 54.5 81.7#

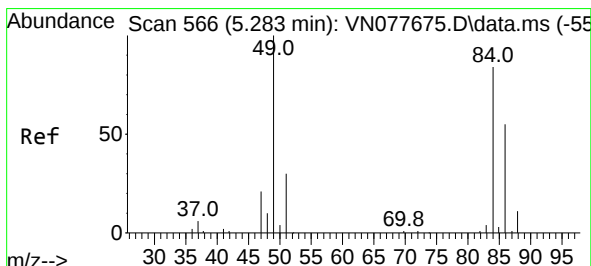
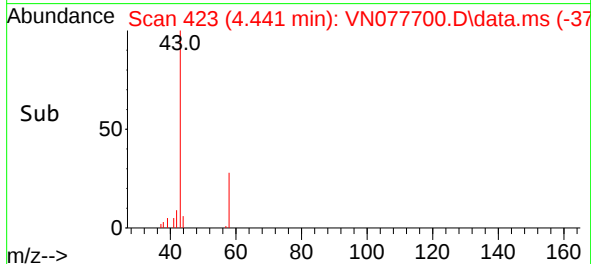
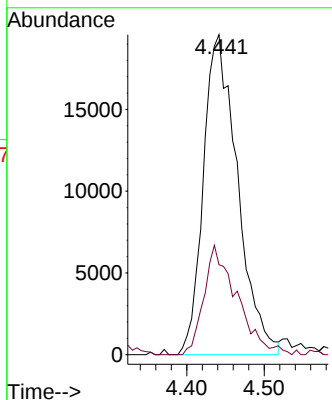
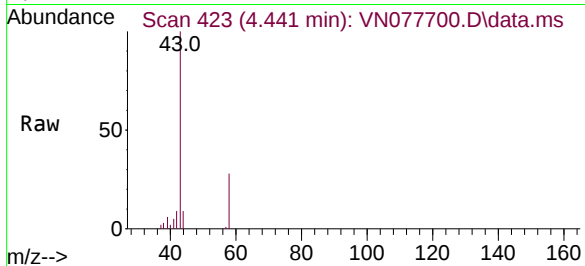




#16
Acetone
Concen: 34.857 ug/l
RT: 4.441 min Scan# 421
Delta R.T. 0.011 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

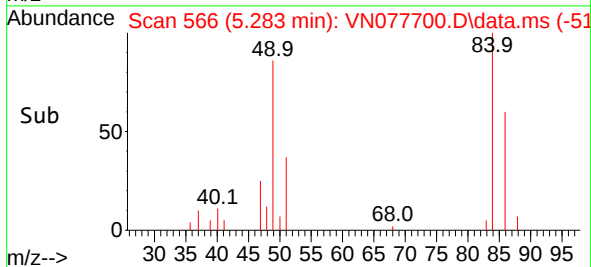
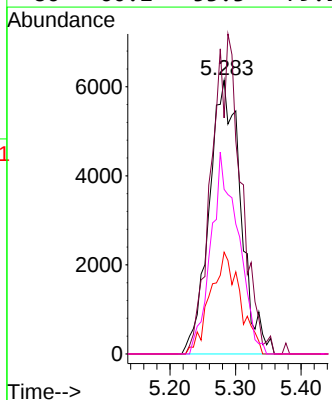
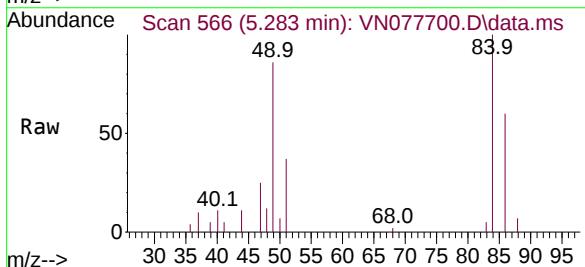
Instrument :
MSVOA_N
ClientSampleId :
WC-N-1

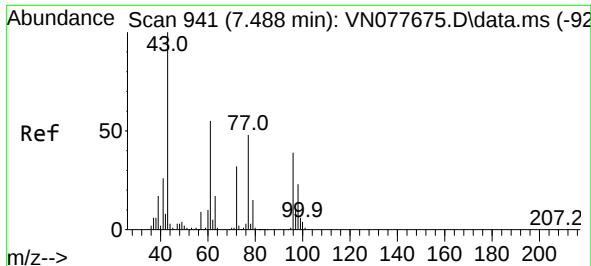
Tgt Ion: 43 Resp: 59904
Ion Ratio Lower Upper
43 100
58 28.1 28.0 42.0



#20
Methylene Chloride
Concen: 2.706 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 84 Resp: 20462
Ion Ratio Lower Upper
84 100
49 86.2 79.7 119.5
51 37.2 25.2 37.8
86 60.2 53.3 79.9

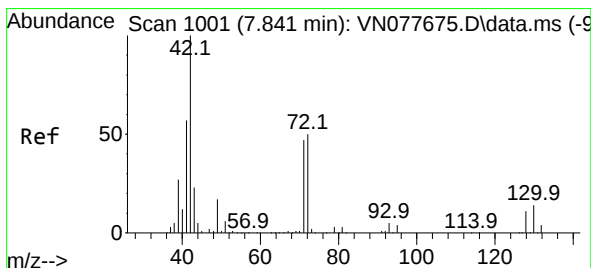
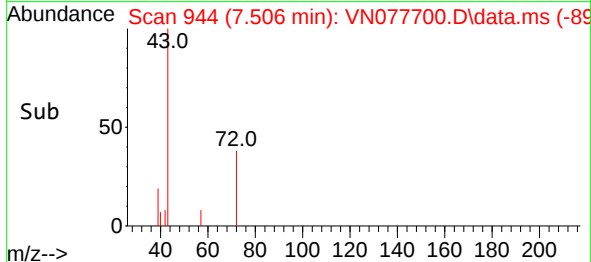
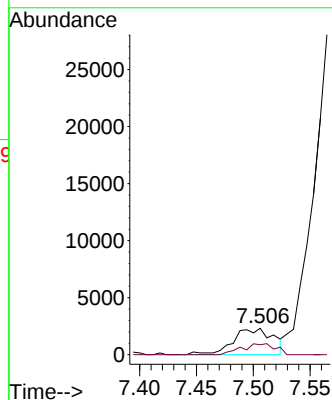
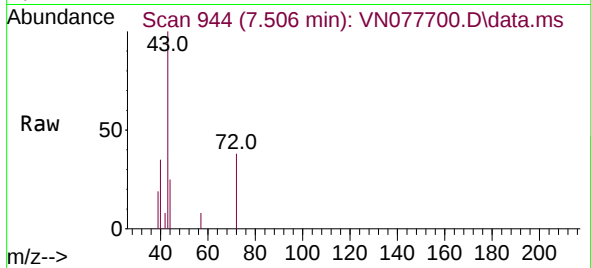




#25
2-Butanone
Concen: 2.099 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

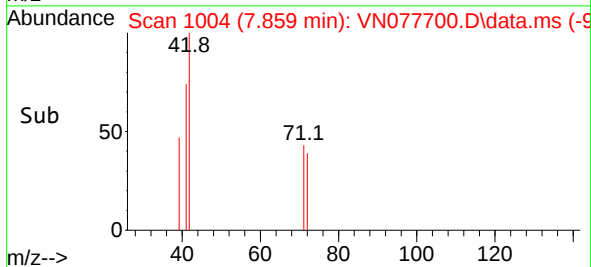
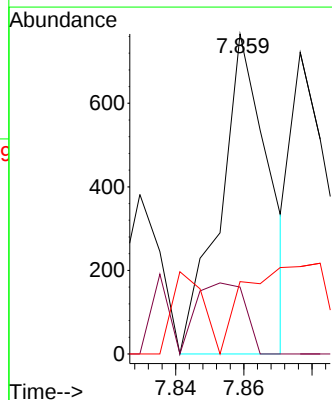
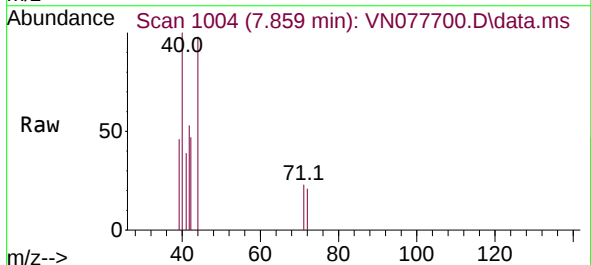
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MSVOA_N
ClientSampleId :
WC-N-1

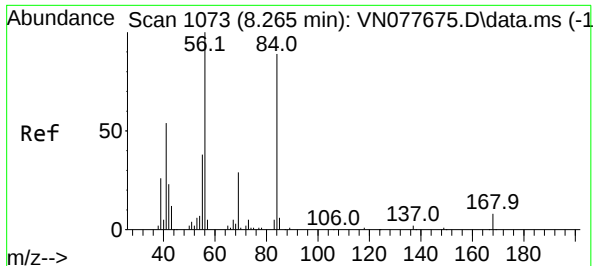
Tgt Ion: 43 Resp: 5643
Ion Ratio Lower Upper
43 100
72 37.6 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.432 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.018 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 42 Resp: 760
Ion Ratio Lower Upper
42 100
72 22.4 49.8 74.6#
71 0.0 47.4 71.2#

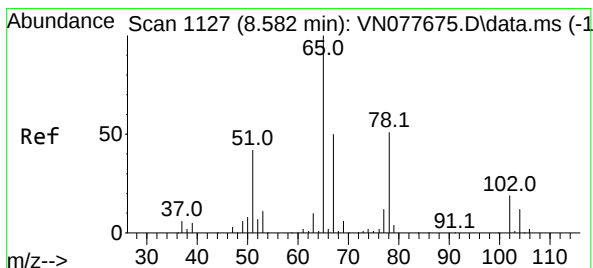
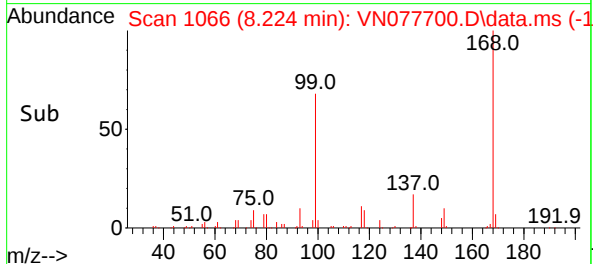
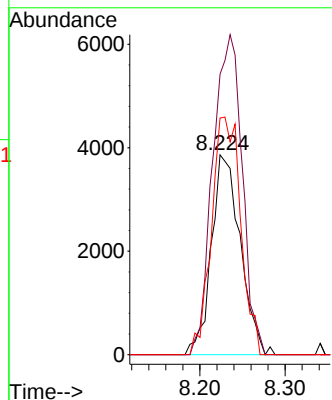
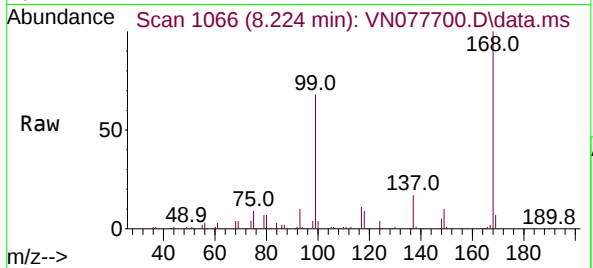




#31
Cyclohexane
Concen: 1.227 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

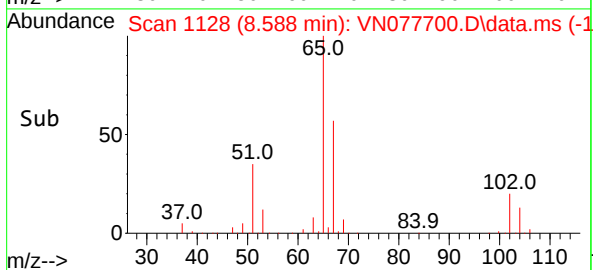
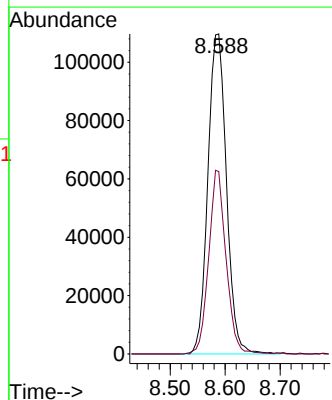
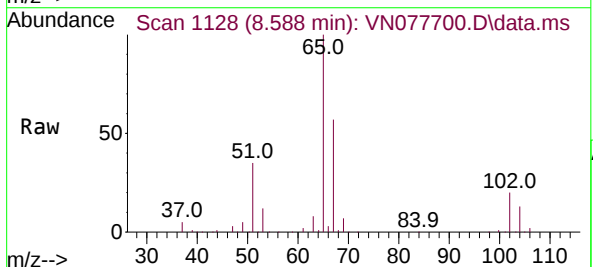
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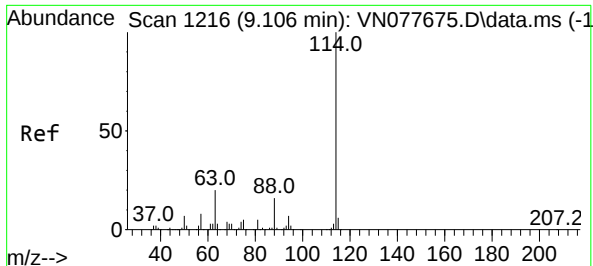
Tgt Ion: 56 Resp: 9111
Ion Ratio Lower Upper
56 100
69 140.4 26.8 40.2#
84 118.4 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 47.176 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 65 Resp: 257695
Ion Ratio Lower Upper
65 100
67 53.5 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: VN077700.D

Acq: 16 May 2023 18:14

Instrument :

MSVOA_N

ClientSampleId :

WC-N-1

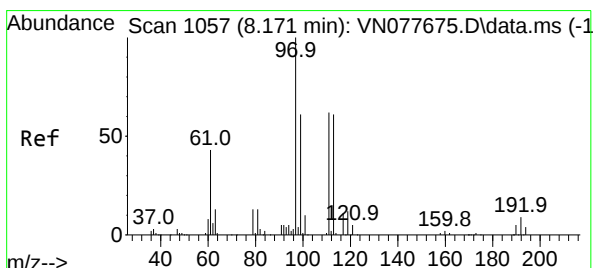
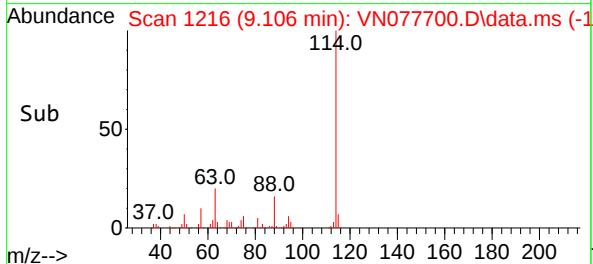
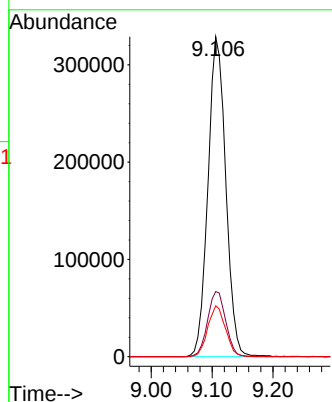
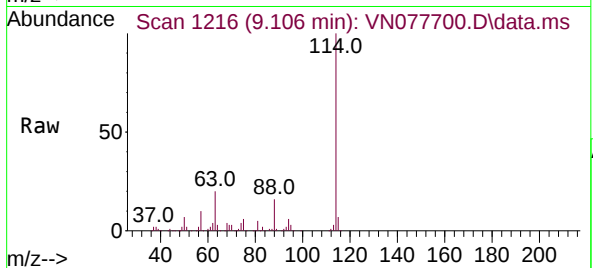
Tgt Ion:114 Resp: 669064

Ion Ratio Lower Upper

114 100

63 20.4 0.0 36.4

88 15.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.322 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

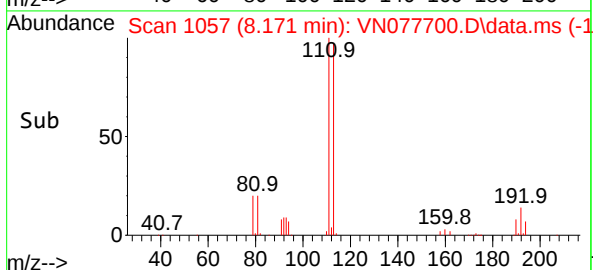
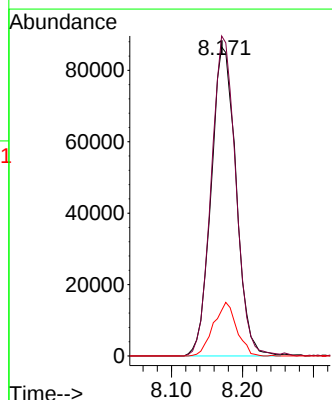
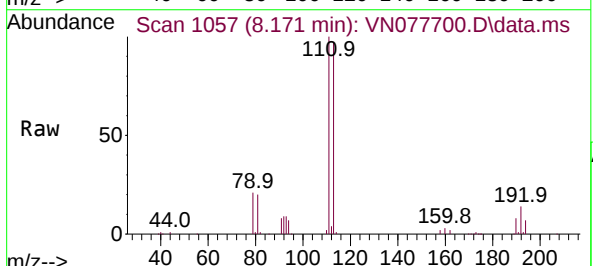
Tgt Ion:113 Resp: 210825

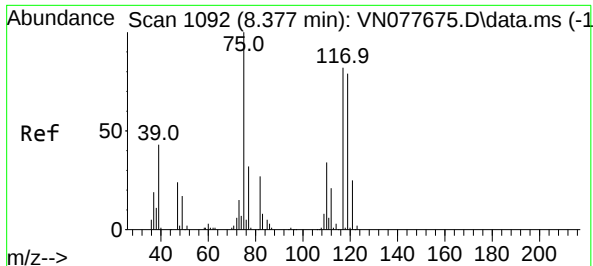
Ion Ratio Lower Upper

113 100

111 101.8 82.6 123.8

192 16.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.976 ug/l

RT: 8.235 min Scan# 1092

Delta R.T. -0.142 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

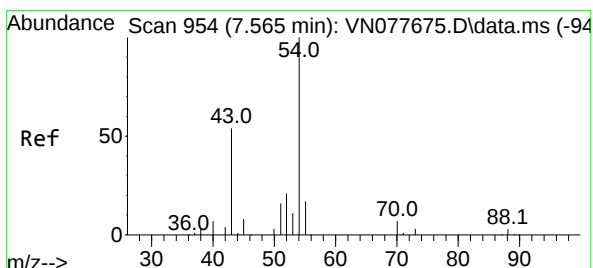
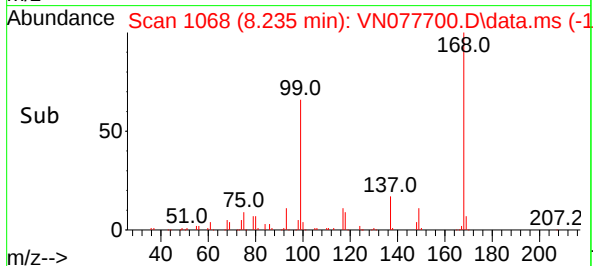
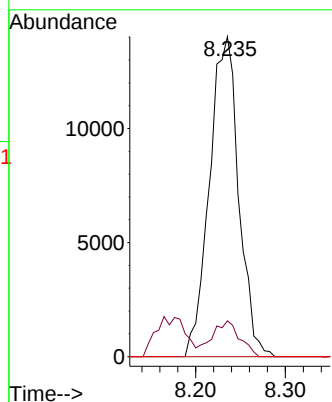
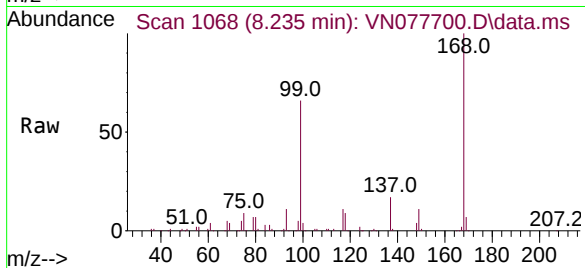
Instrument :

MSVOA_N

ClientSampleId :

WC-N-1

Tgt Ion:	75	Resp:	31757
Ion	Ratio	Lower	Upper
75	100		
110	10.2	19.1	57.3#
77	0.0	25.0	37.4#



#37

Ethyl Acetate

Concen: 12.807 ug/l

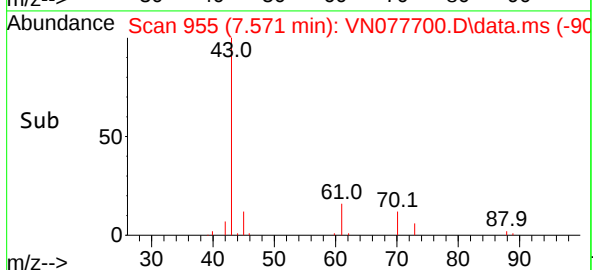
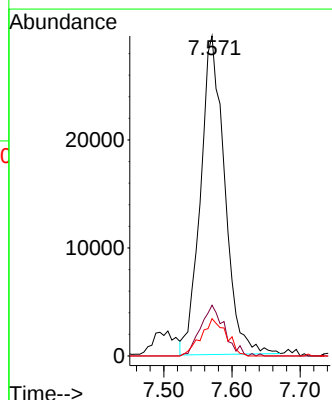
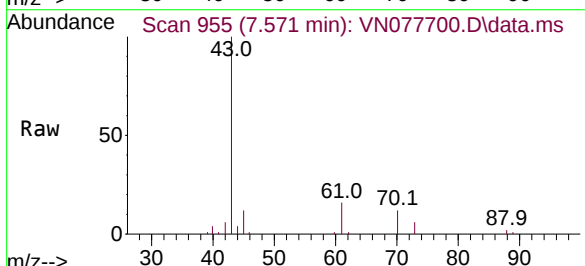
RT: 7.571 min Scan# 955

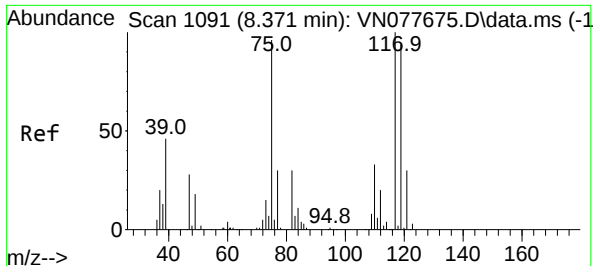
Delta R.T. 0.006 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

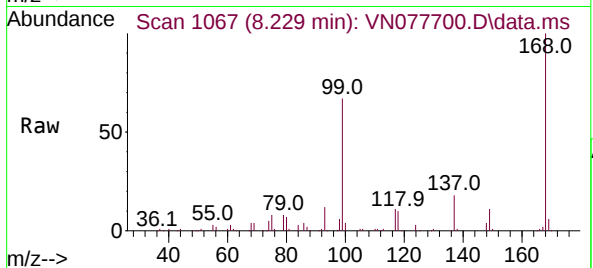
Tgt Ion:	43	Resp:	72841
Ion	Ratio	Lower	Upper
43	100		
61	15.6	13.2	19.8
70	12.2	11.3	16.9



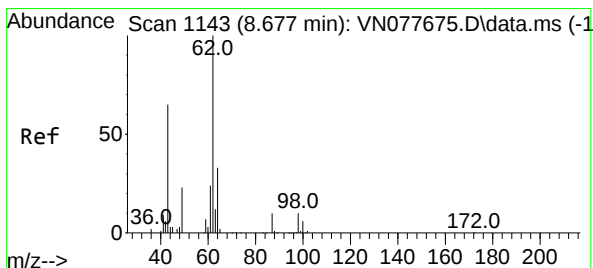
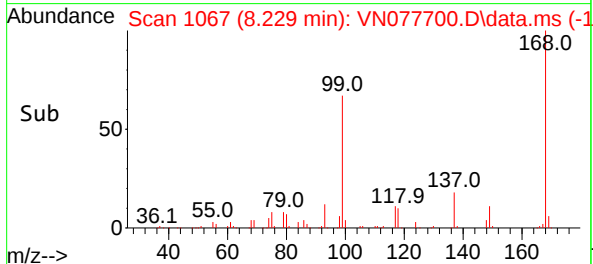
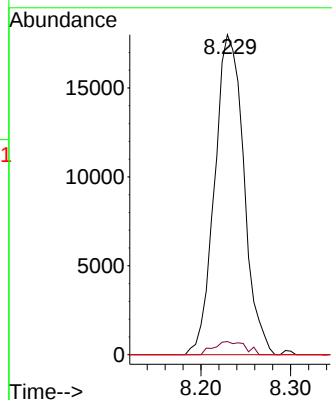


#38
Carbon Tetrachloride
Concen: 6.302 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.142 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Instrument :
MSVOA_N
ClientSampleId :
WC-N-1

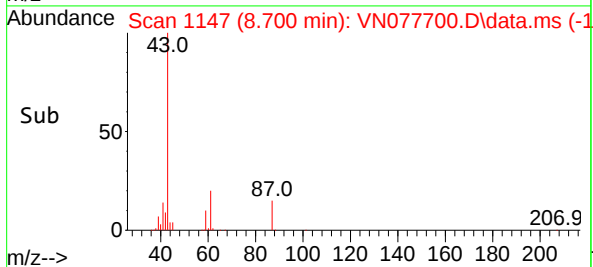
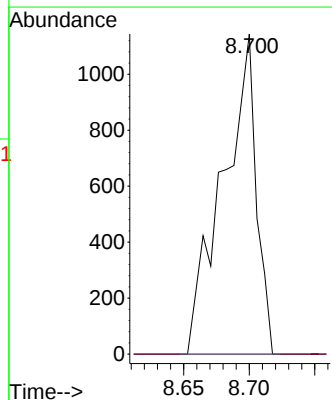
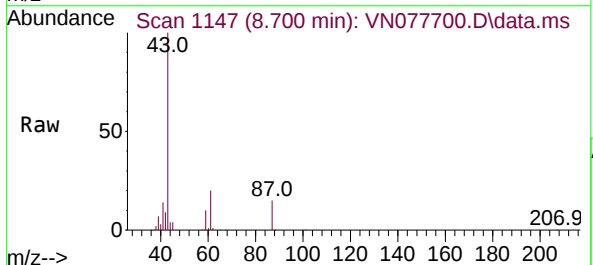


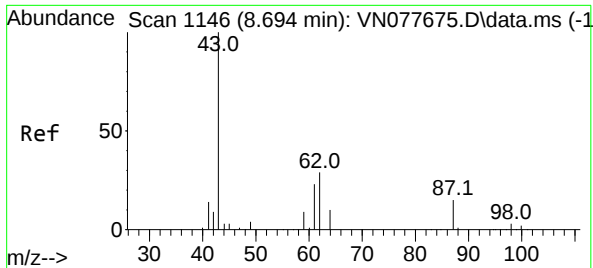
Tgt Ion:117 Resp: 40607
Ion Ratio Lower Upper
117 100
119 4.1 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.297 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.023 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 62 Resp: 2031
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

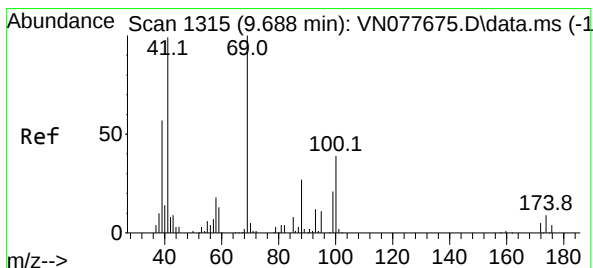
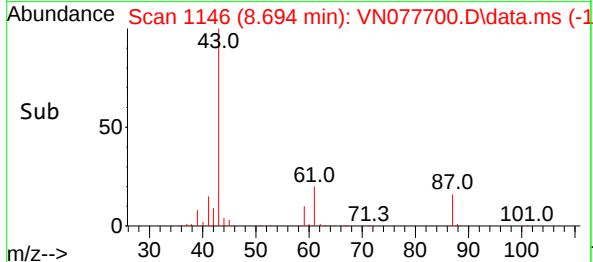
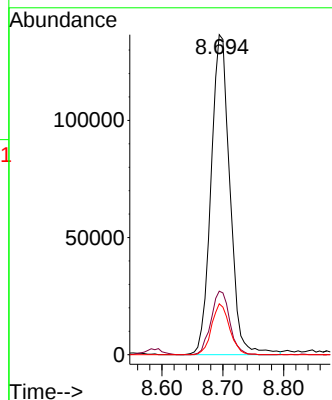
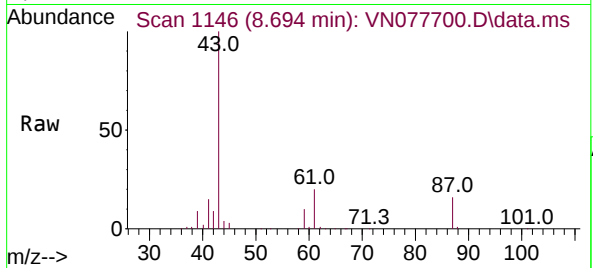




#43
Isopropyl Acetate
Concen: 31.656 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

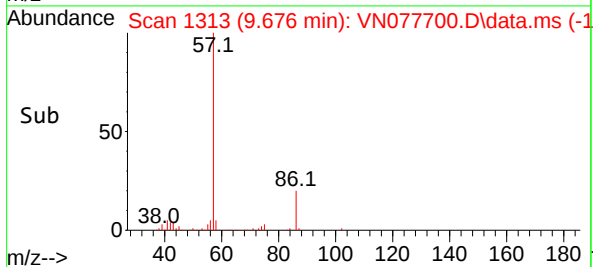
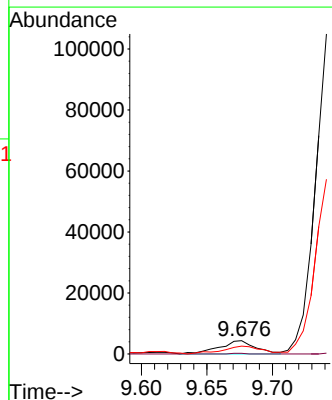
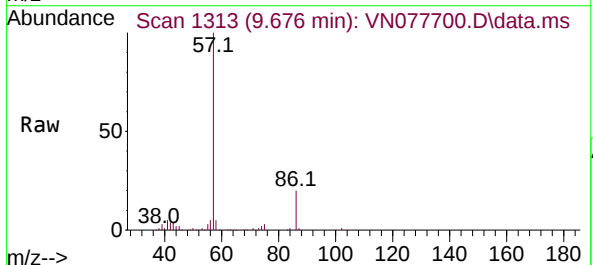
Instrument :
MSVOA_N
ClientSampleId :
WC-N-1

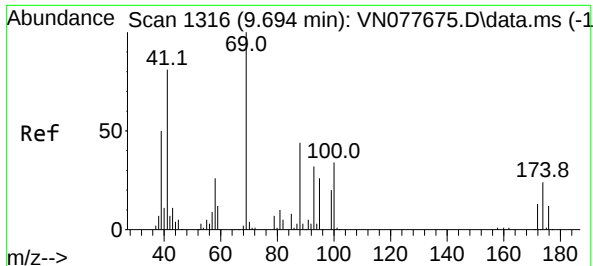
Tgt Ion: 43 Resp: 294095
Ion Ratio Lower Upper
43 100
61 19.7 24.7 37.1#
87 15.0 14.6 21.8



#48
Methyl methacrylate
Concen: 1.915 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 41 Resp: 8433
Ion Ratio Lower Upper
41 100
69 1.8 90.4 135.6#
39 60.8 54.6 81.8





#49

1,4-Dioxane

Concen: 1.082 ug/l

RT: 9.712 min Scan# 1

Delta R.T. 0.018 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

Instrument :

MSVOA_N

ClientSampleId :

WC-N-1

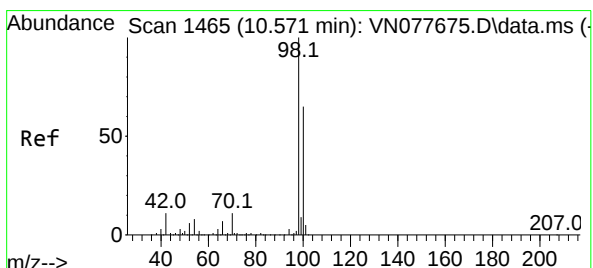
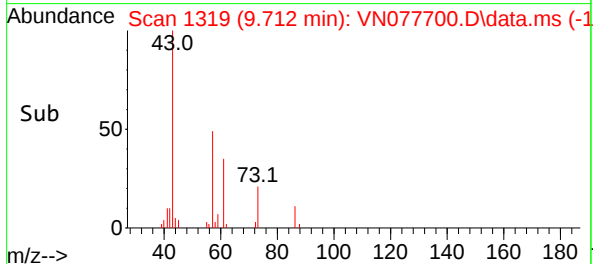
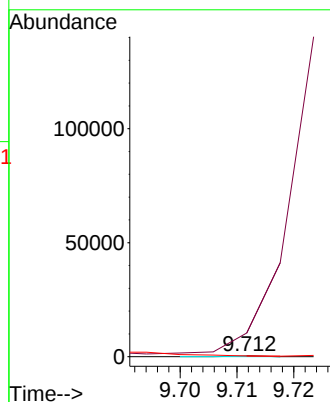
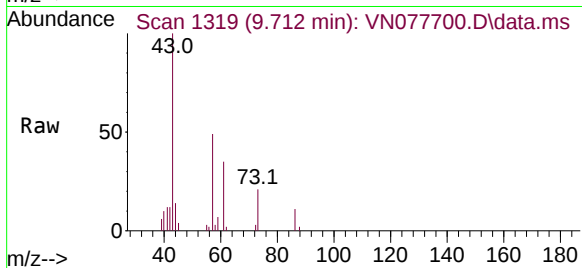
Tgt Ion: 88 Resp: 90

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 49.861 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.001 min

Lab File: VN077700.D

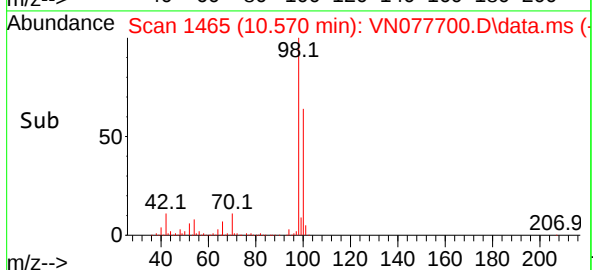
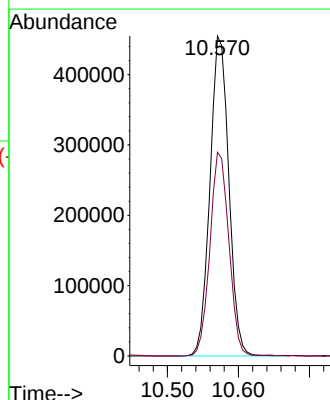
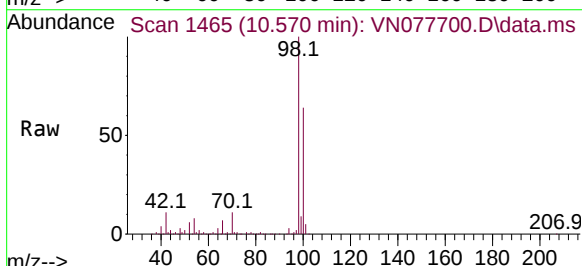
Acq: 16 May 2023 18:14

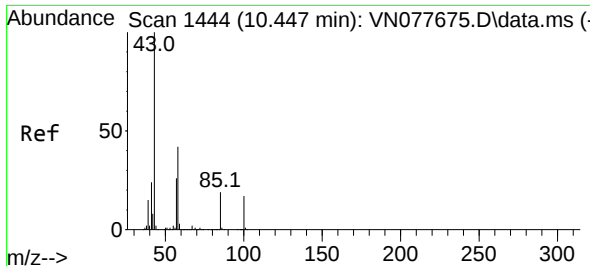
Tgt Ion: 98 Resp: 837328

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 3.872 ug/l

RT: 10.453 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

Instrument :

MSVOA_N

ClientSampleId :

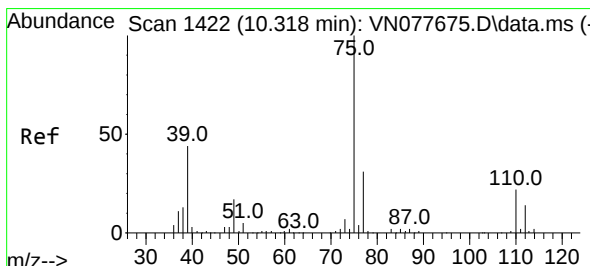
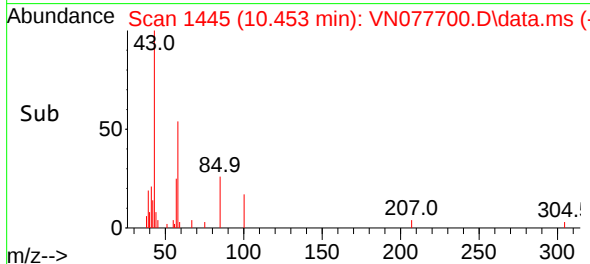
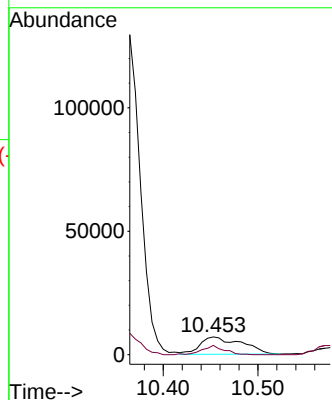
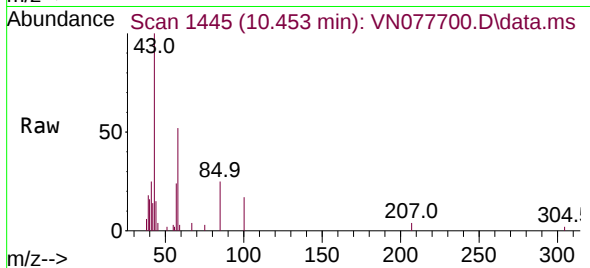
WC-N-1

Tgt Ion: 43 Resp: 21380

Ion Ratio Lower Upper

43 100

58 28.2 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 14.395 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

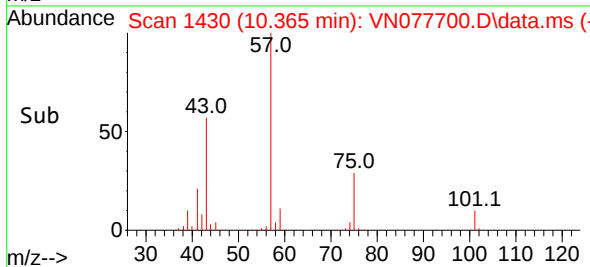
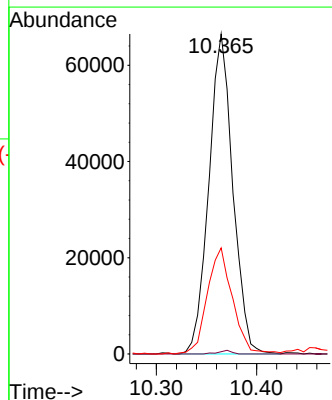
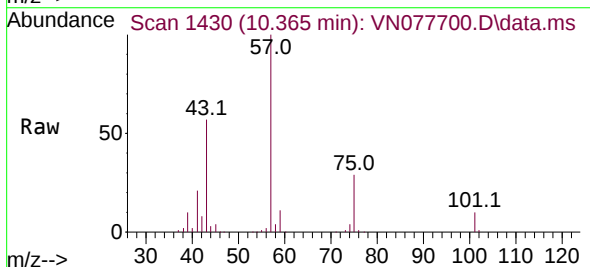
Tgt Ion: 75 Resp: 110542

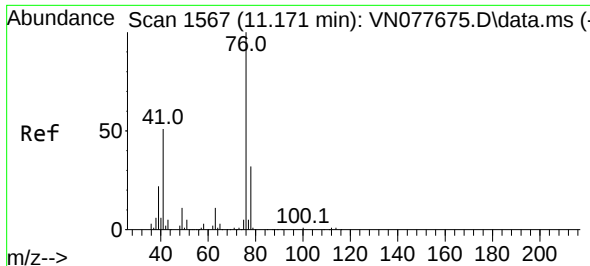
Ion Ratio Lower Upper

75 100

77 0.7 26.1 39.1#

39 32.8 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.694 ug/l

RT: 11.206 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

Instrument :

MSVOA_N

ClientSampleId :

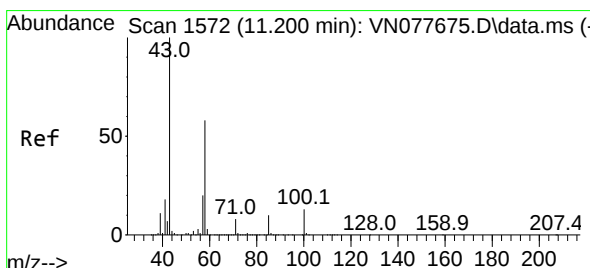
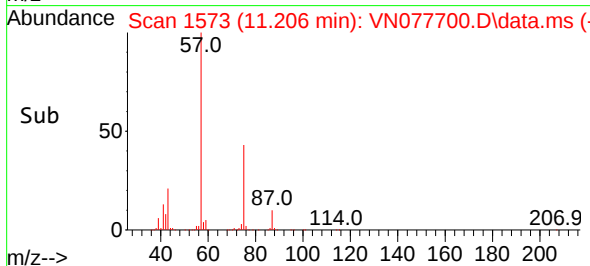
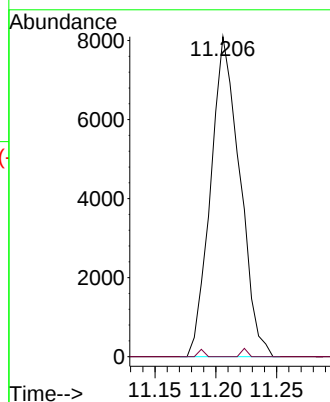
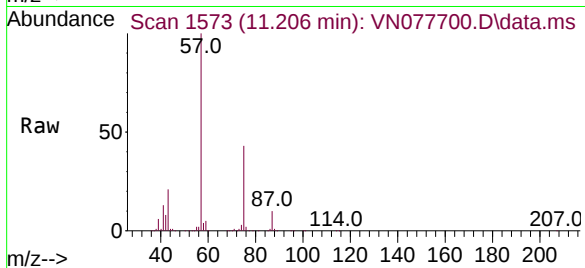
WC-N-1

Tgt Ion: 76 Resp: 13518

Ion Ratio Lower Upper

76 100

78 0.5 26.1 39.1#



#59

2-Hexanone

Concen: 61.532 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN077700.D

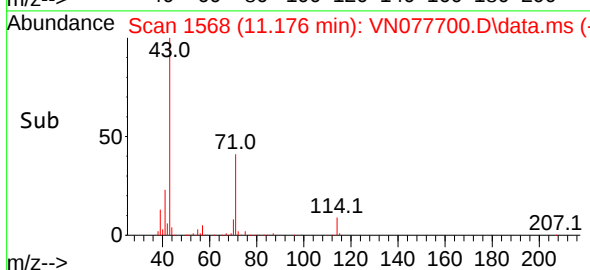
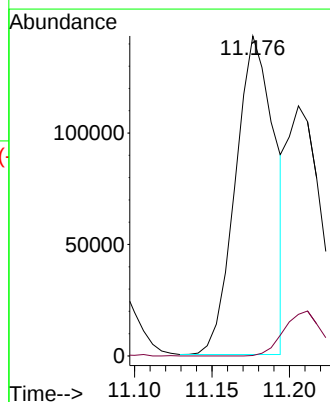
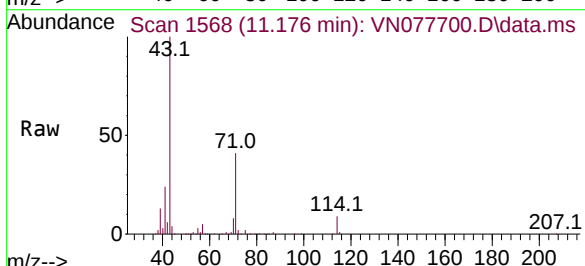
Acq: 16 May 2023 18:14

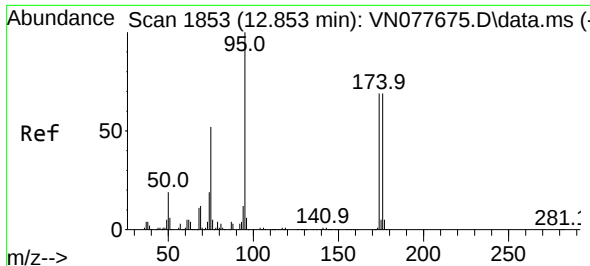
Tgt Ion: 43 Resp: 251337

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

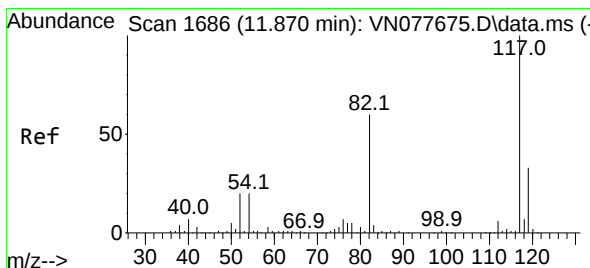
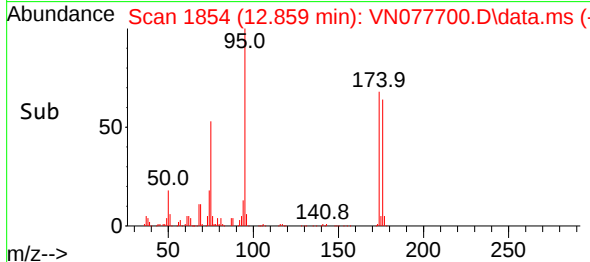
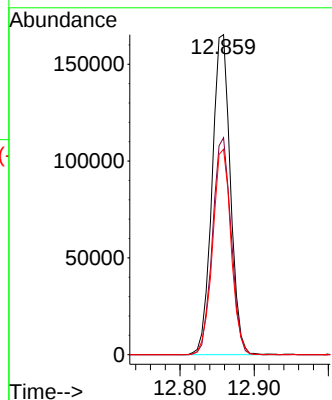
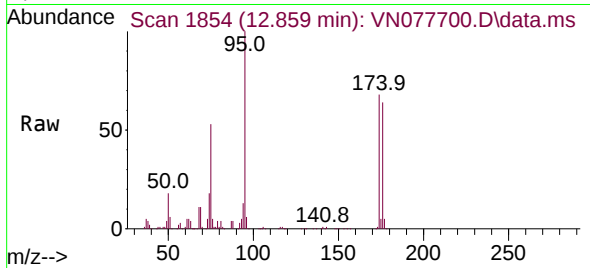




#62
4-Bromofluorobenzene
Concen: 47.809 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

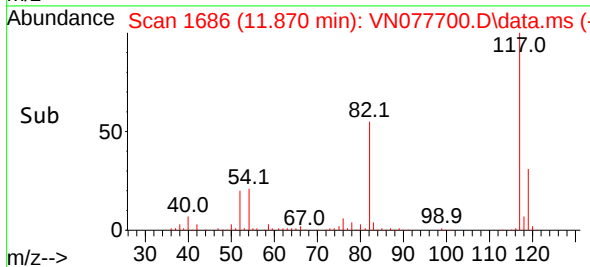
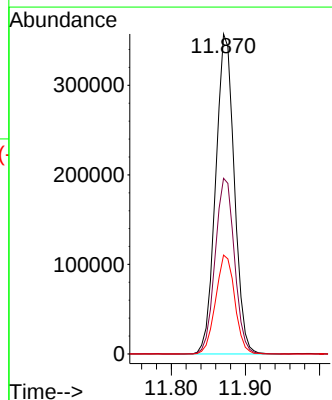
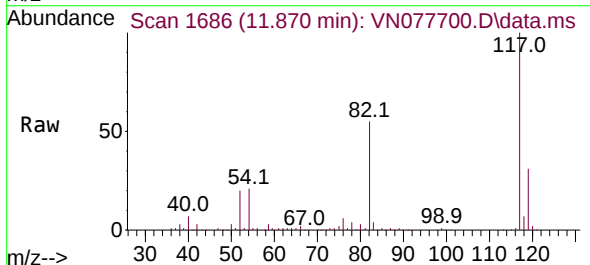
Instrument :
MSVOA_N
ClientSampleId :
WC-N-1

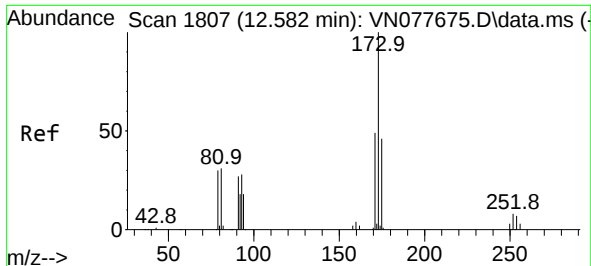
Tgt Ion: 95 Resp: 283557
Ion Ratio Lower Upper
95 100
174 68.9 0.0 143.8
176 64.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion: 117 Resp: 622619
Ion Ratio Lower Upper
117 100
82 54.9 44.0 66.0
119 30.9 25.6 38.4

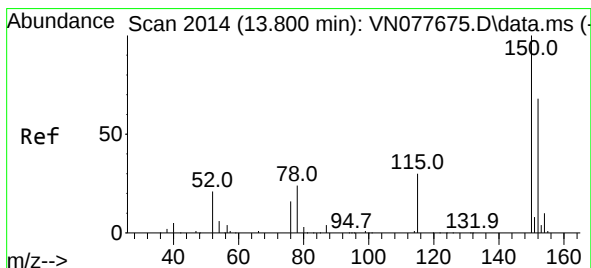
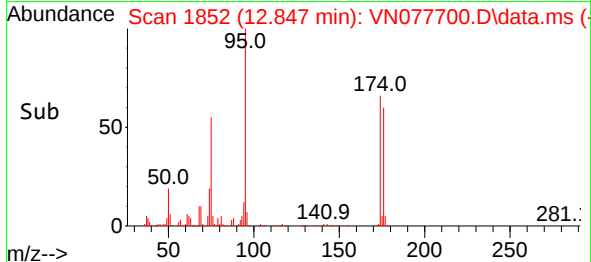
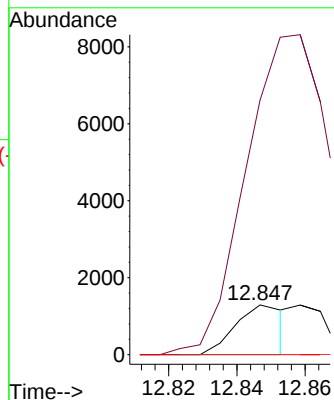
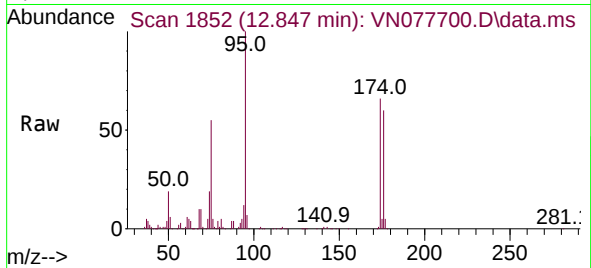




#71
Bromoform
Concen: 0.416 ug/l
RT: 12.847 min Scan# 1807
Delta R.T. 0.265 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

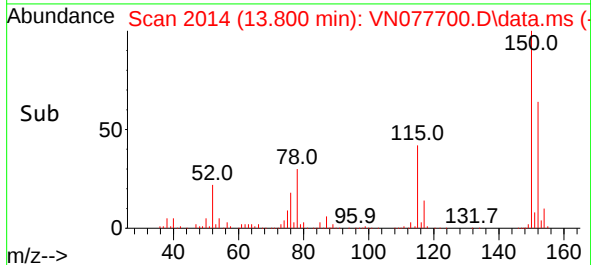
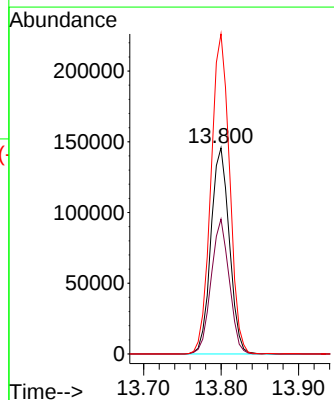
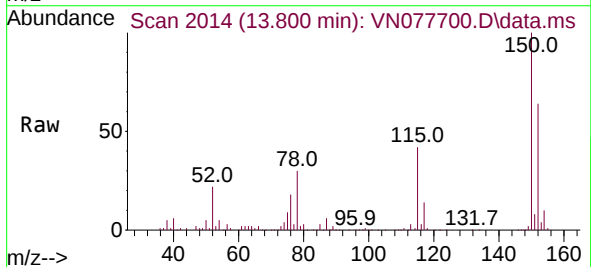
Instrument :
MSVOA_N
ClientSampleId :
WC-N-1

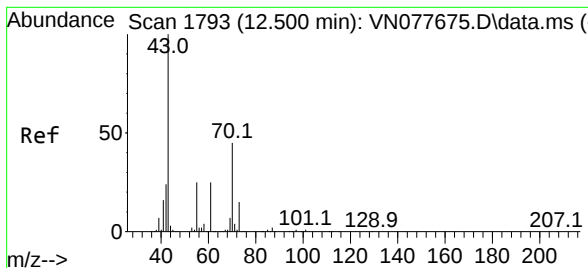
Tgt Ion:173 Resp: 1293
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077700.D
Acq: 16 May 2023 18:14

Tgt Ion:152 Resp: 240556
Ion Ratio Lower Upper
152 100
115 64.2 32.3 96.8
150 156.8 0.0 355.8





#74

N-amy1 acetate

Concen: 0.408 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN077700.D

Acq: 16 May 2023 18:14

Instrument :

MSVOA_N

ClientSampleId :

WC-N-1

Tgt Ion: 43 Resp: 3124

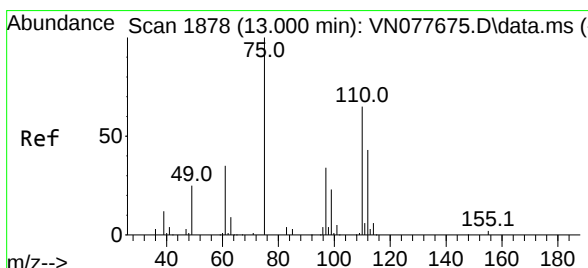
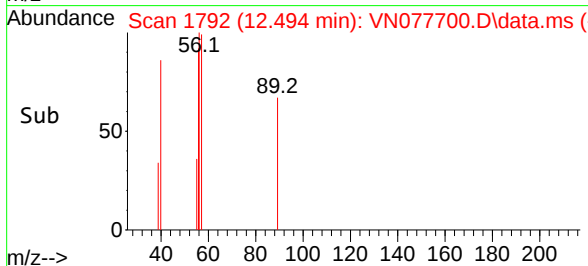
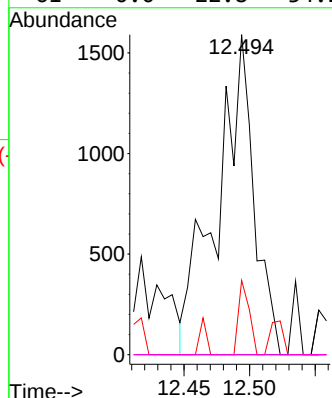
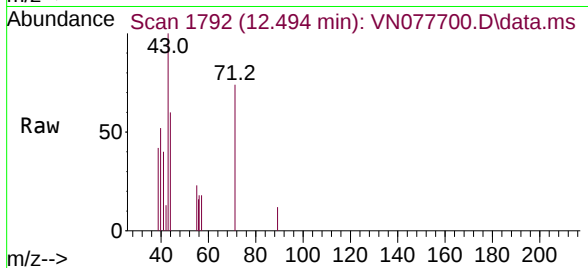
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 6.7 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 25.158 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN077700.D

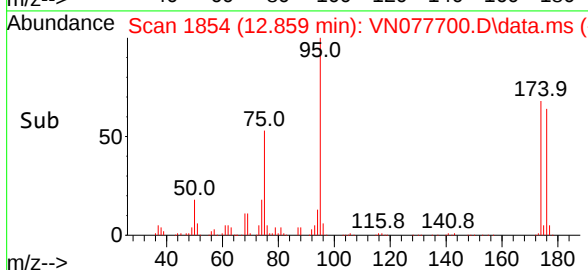
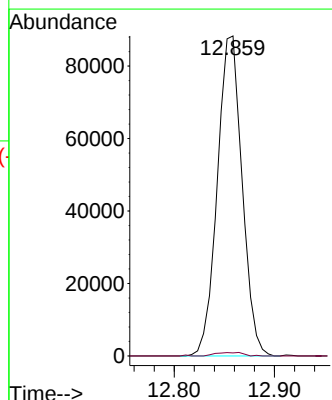
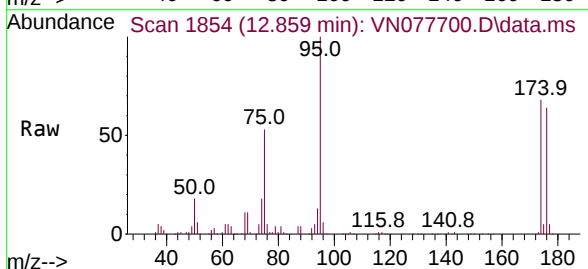
Acq: 16 May 2023 18:14

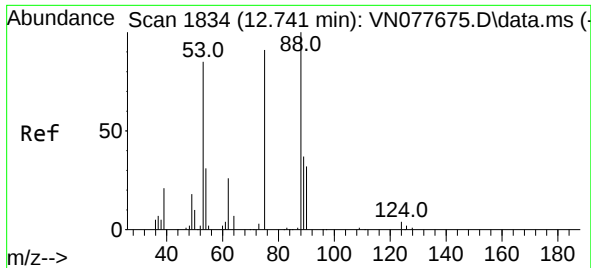
Tgt Ion: 75 Resp: 151559

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.417 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN077700.D
 Acq: 16 May 2023 18:14

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-N-1

Tgt Ion: 75 Resp: 151559
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

