

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052024\
 Data File : VN082221.D
 Acq On : 20 May 2024 19:48
 Operator : JC\MD
 Sample : P2518-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-MH-FF

Quant Time: May 21 03:53:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 16 05:21:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	154772	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	282210	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	277217	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	114396	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	133340	54.561	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 109.120%		
35) Dibromofluoromethane	8.171	113	93129	53.645	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 107.280%		
50) Toluene-d8	10.571	98	374154	56.215	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 112.420%		
62) 4-Bromofluorobenzene	12.853	95	125508	52.832	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery	= 105.660%		
Target Compounds						Qvalue
13) Acrolein	4.177	56	76	0.261	ug/l #	15
16) Acetone	4.436	43	19821	19.771	ug/l #	88
18) Methyl Acetate	5.036	43	3140	1.258	ug/l #	57
20) Methylene Chloride	5.271	84	11167	5.521	ug/l #	80
25) 2-Butanone	7.494	43	1527	1.005	ug/l	97
29) Tetrahydrofuran	7.847	42	288	0.295	ug/l #	29
31) Cyclohexane	8.230	56	4715	1.208	ug/l #	48
36) 1,1-Dichloropropene	8.224	75	15497	5.323	ug/l #	50
37) Ethyl Acetate	7.571	43	3760	1.154	ug/l #	84
38) Carbon Tetrachloride	8.230	117	16871	5.716	ug/l #	16
42) 1,2-Dichloroethane	8.682	62	1083	0.324	ug/l #	73
43) Isopropyl Acetate	8.688	43	265847	46.044	ug/l #	71
45) 1,2-Dichloropropane	9.741	63	1548	0.691	ug/l #	45
48) Methyl methacrylate	9.665	41	4532	1.647	ug/l #	40
49) 1,4-Dioxane	9.735	88	58	1.504	ug/l #	1
51) 4-Methyl-2-Pentanone	10.359	43	117646	35.863	ug/l #	43
53) t-1,3-Dichloropropene	10.729	75	797	0.248	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	45913	13.508	ug/l #	75
56) Ethyl methacrylate	10.988	69	1348	0.419	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6151	1.737	ug/l #	42
59) 2-Hexanone	11.200	43	97909	40.762	ug/l #	47
71) Bromoform	12.847	173	1060	1.352	ug/l #	28
74) N-amyl acetate	12.488	43	1463	0.293	ug/l #	39
76) 1,2,3-Trichloropropane	12.847	75	73120	30.368	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	73120	71.031	ug/l #	12

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

Quant Time: May 21 03:53:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
Quant Title : SW846 8260
QLast Update : Thu May 16 05:21:06 2024
Response via : Initial Calibration

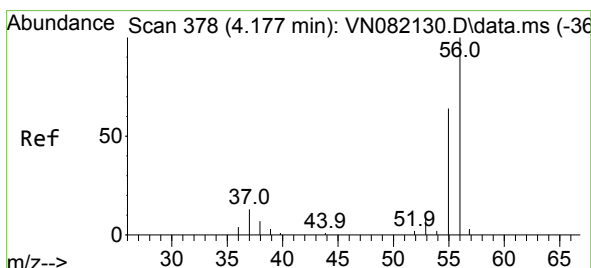
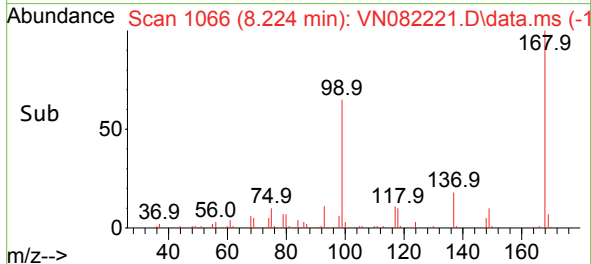
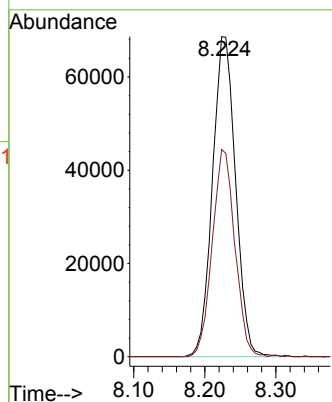
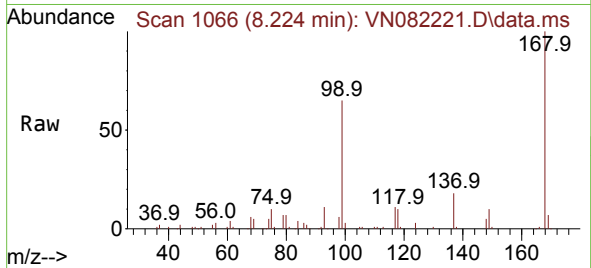




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

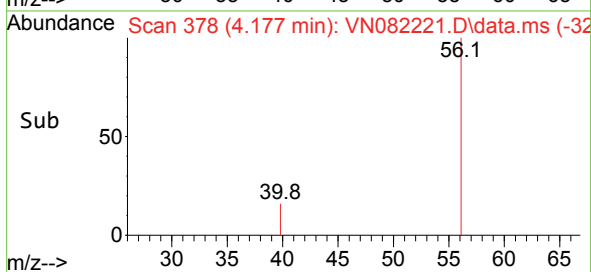
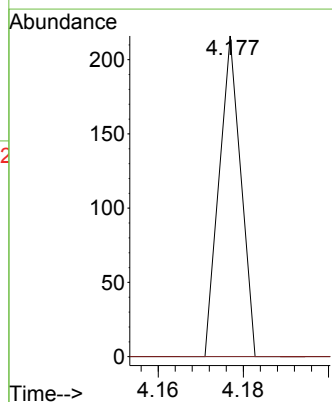
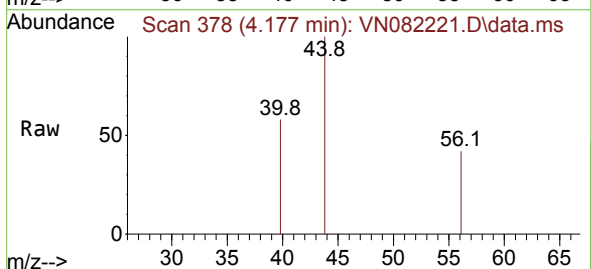
Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

Tgt Ion:168 Resp: 154772
Ion Ratio Lower Upper
168 100
99 64.8 48.2 72.4



#13
Acrolein
Concen: 0.261 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Tgt Ion: 56 Resp: 76
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.8#

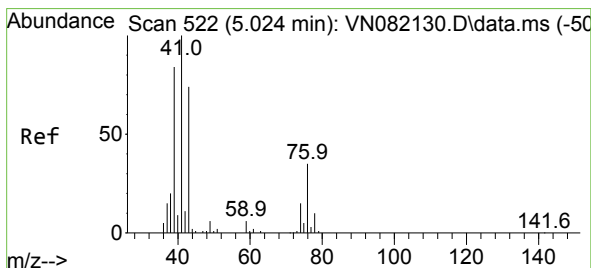
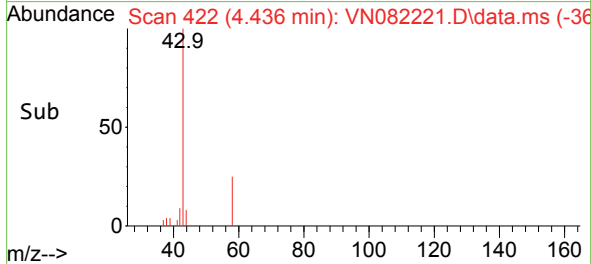
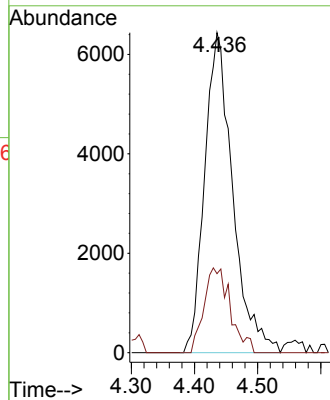
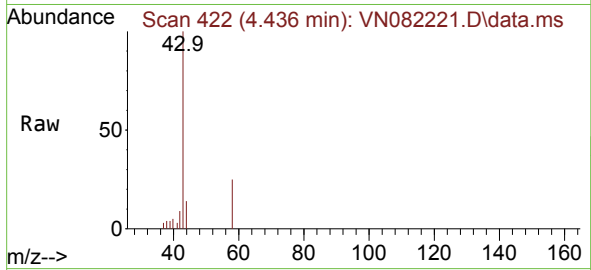




#16
Acetone
Concen: 19.771 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

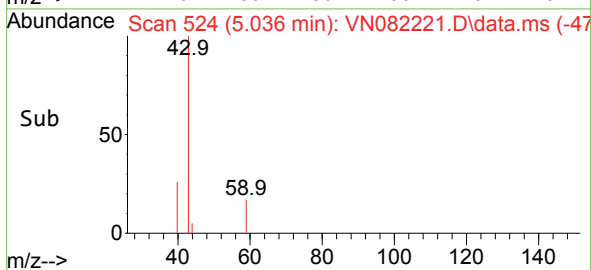
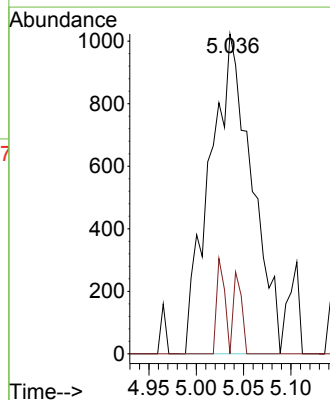
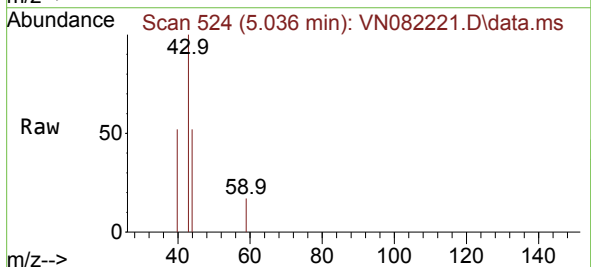
Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

Tgt Ion: 43 Resp: 19821
Ion Ratio Lower Upper
43 100
58 24.7 25.2 37.8#



#18
Methyl Acetate
Concen: 1.258 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

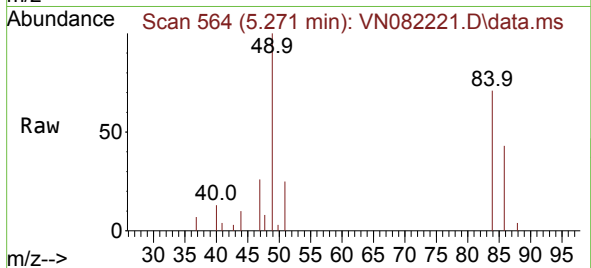
Tgt Ion: 43 Resp: 3140
Ion Ratio Lower Upper
43 100
74 5.0 22.2 33.2#



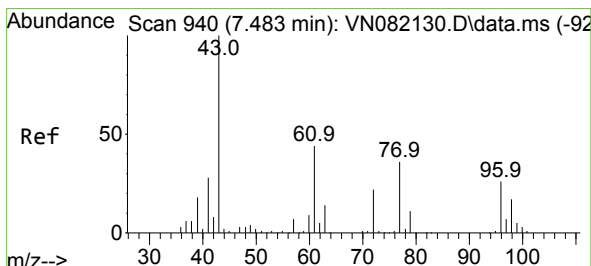
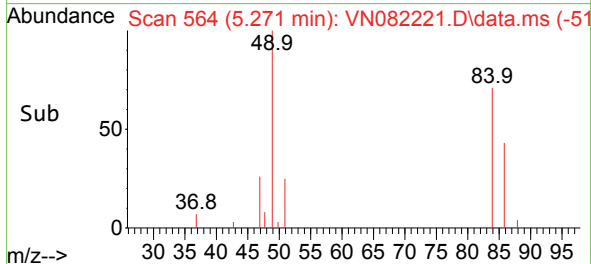
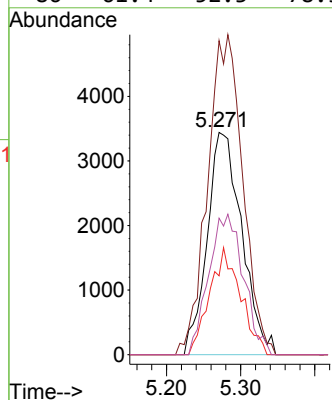


#20
Methylene Chloride
Concen: 5.521 ug/l
RT: 5.271 min Scan# 511
Delta R.T. -0.006 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

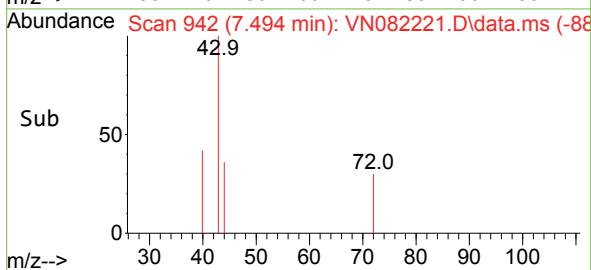
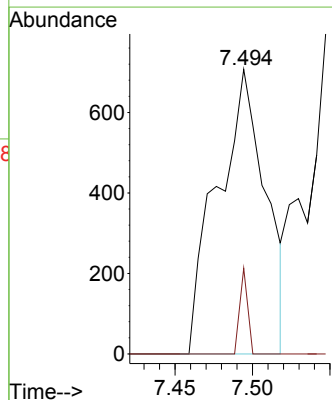
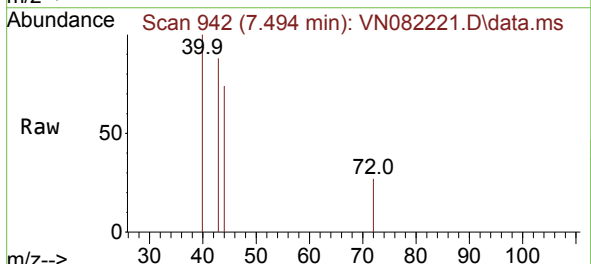


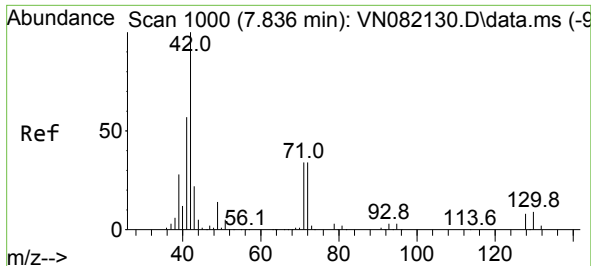
Tgt Ion:	84	Resp:	11167
Ion	Ratio	Lower	Upper
84	100		
49	141.2	84.9	127.3#
51	35.5	27.0	40.6
86	61.4	52.3	78.5



#25
2-Butanone
Concen: 1.005 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Tgt Ion:	43	Resp:	1527
Ion	Ratio	Lower	Upper
43	100		
72	30.1	25.3	37.9





#29

Tetrahydrofuran

Concen: 0.295 ug/l

RT: 7.847 min Scan# 10

Delta R.T. 0.011 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

Instrument :

MSVOA_N

ClientSampleId :

WC-MH-FF

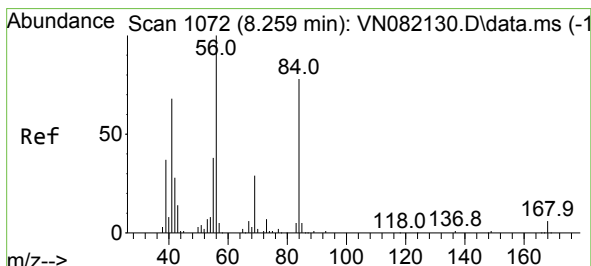
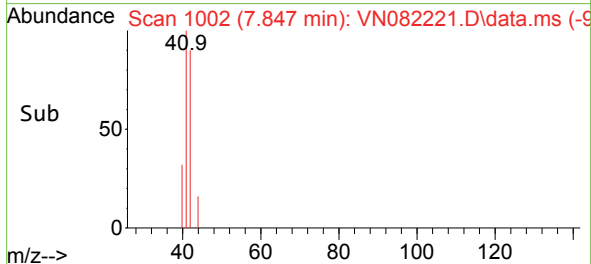
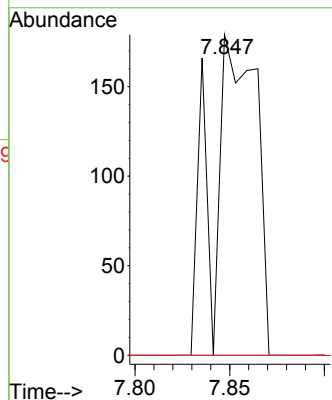
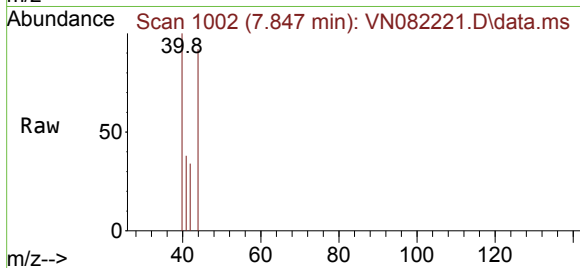
Tgt Ion: 42 Resp: 288

Ion Ratio Lower Upper

42 100

72 0.0 39.3 58.9#

71 0.0 37.4 56.0#



#31

Cyclohexane

Concen: 1.208 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

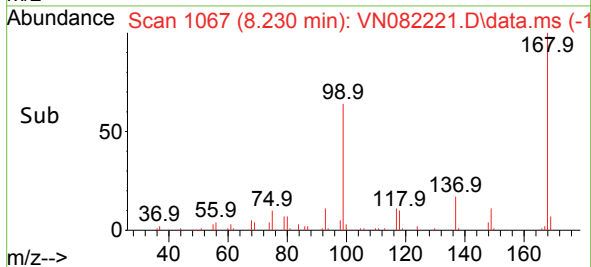
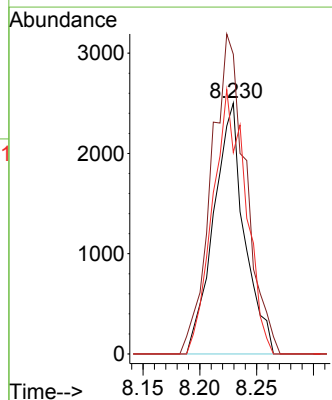
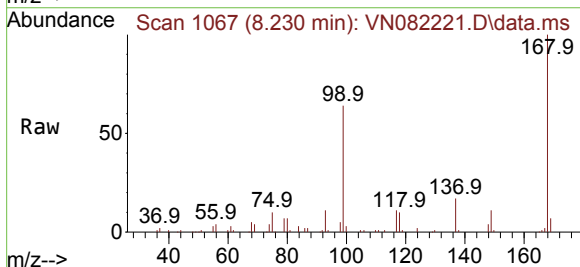
Tgt Ion: 56 Resp: 4715

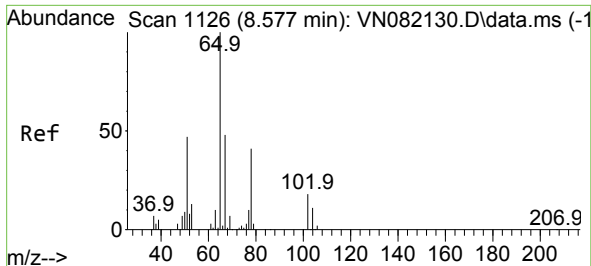
Ion Ratio Lower Upper

56 100

69 119.5 24.4 36.6#

84 80.3 77.0 115.4





#33

1,2-Dichloroethane-d4

Concen: 54.561 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

Instrument :

MSVOA_N

ClientSampleId :

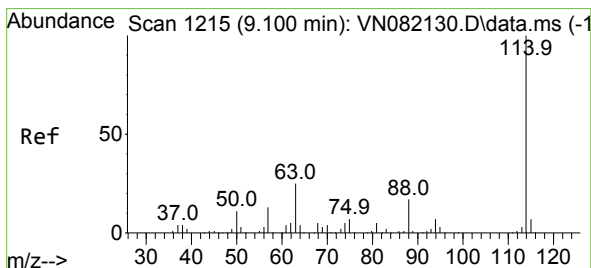
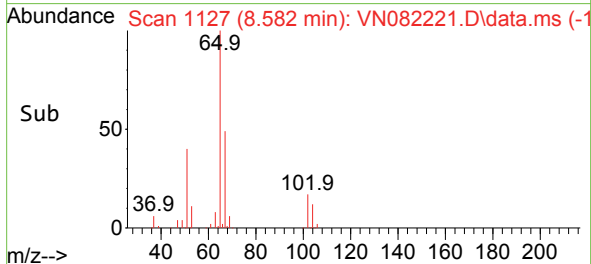
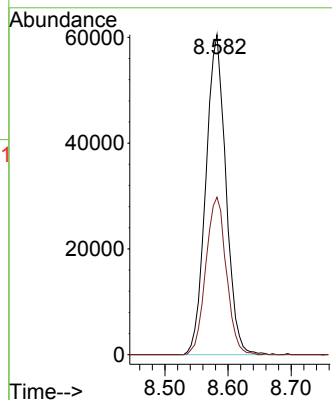
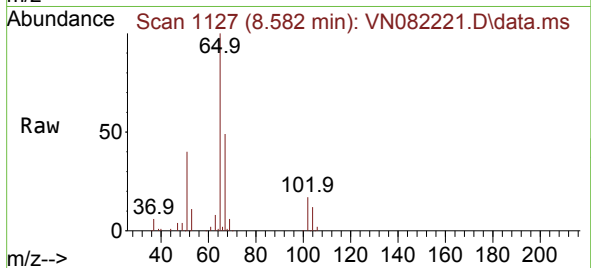
WC-MH-FF

Tgt Ion: 65 Resp: 133340

Ion Ratio Lower Upper

65 100

67 50.3 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

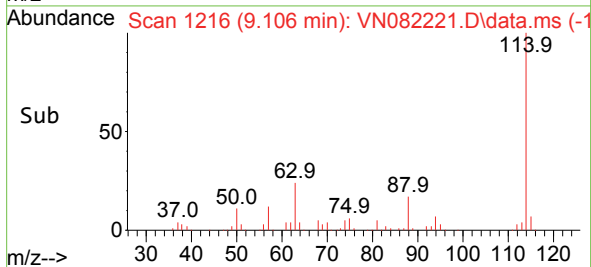
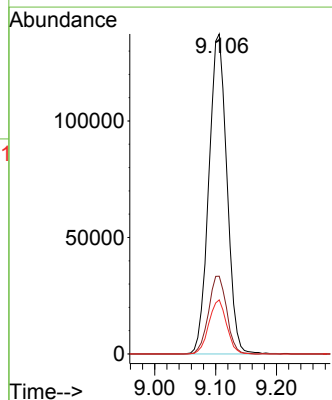
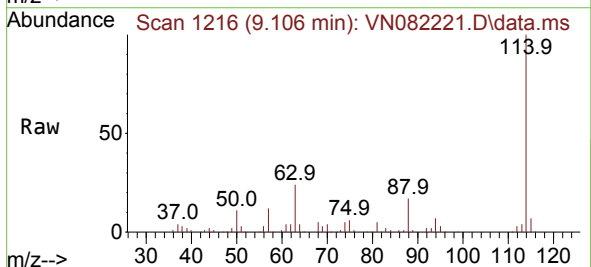
Tgt Ion: 114 Resp: 282210

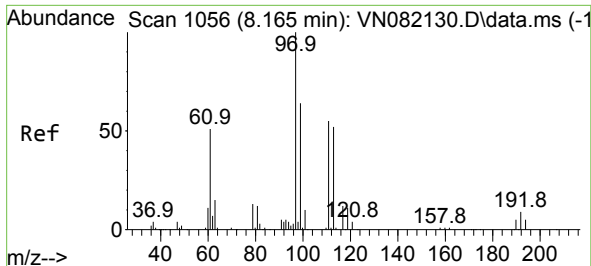
Ion Ratio Lower Upper

114 100

63 24.3 0.0 41.0

88 16.9 0.0 31.4

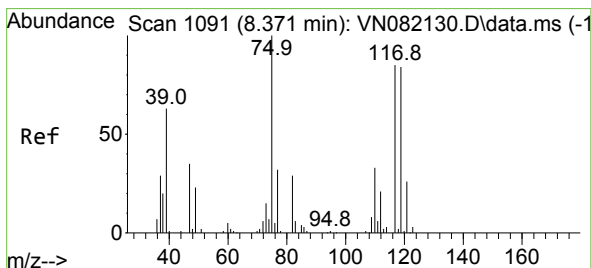
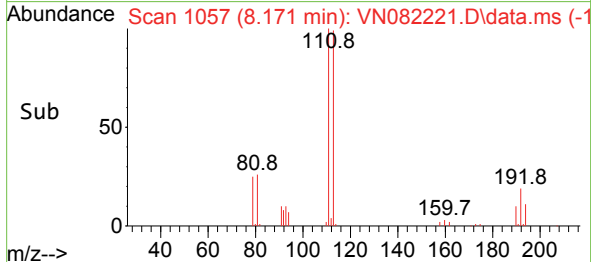
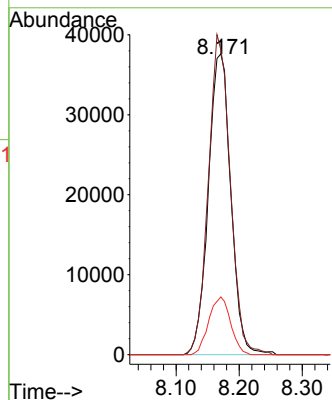
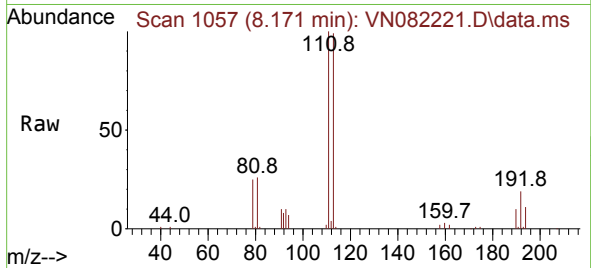




#35
 Dibromofluoromethane
 Concen: 53.645 ug/l
 RT: 8.171 min Scan# 1056
 Delta R.T. 0.006 min
 Lab File: VN082221.D
 Acq: 20 May 2024 19:48

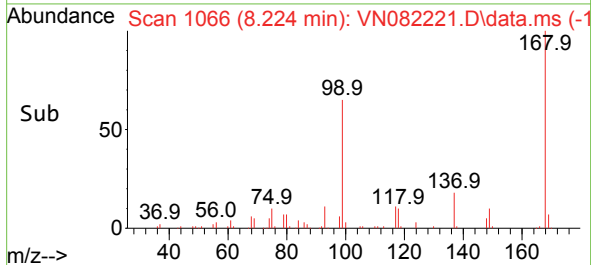
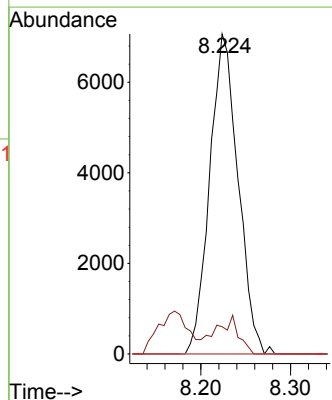
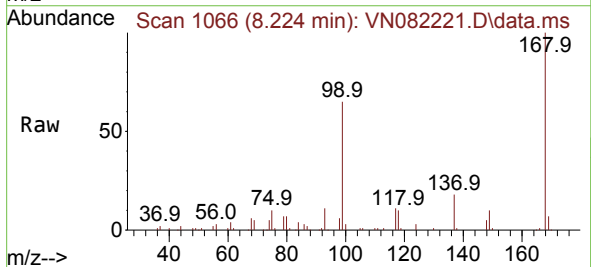
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-MH-FF

Tgt Ion:113 Resp: 93129
 Ion Ratio Lower Upper
 113 100
 111 103.5 83.4 125.2
 192 18.6 14.0 21.0



#36
 1,1-Dichloropropene
 Concen: 5.323 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.147 min
 Lab File: VN082221.D
 Acq: 20 May 2024 19:48

Tgt Ion: 75 Resp: 15497
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.8 53.5#
 77 0.0 25.0 37.4#

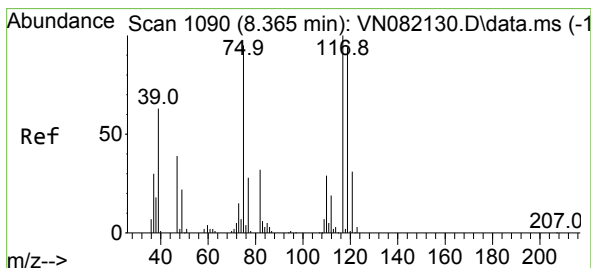
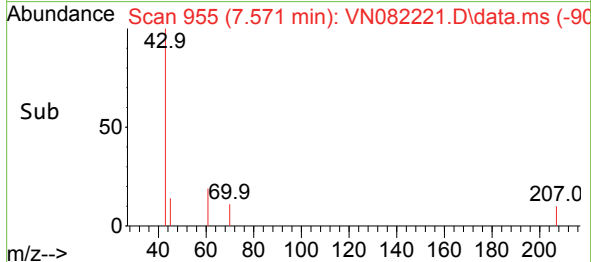
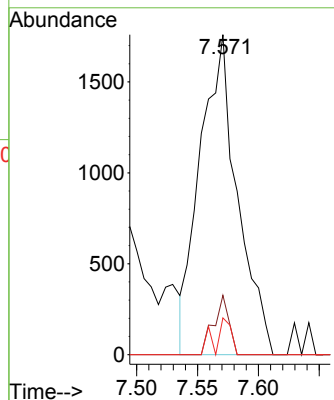
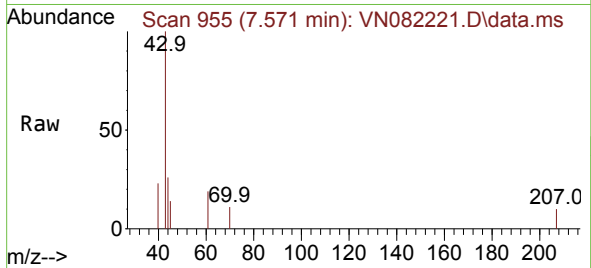




#37
Ethyl Acetate
Concen: 1.154 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

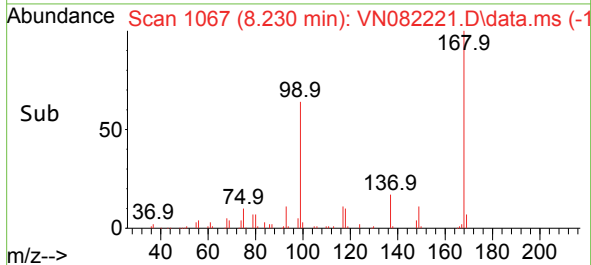
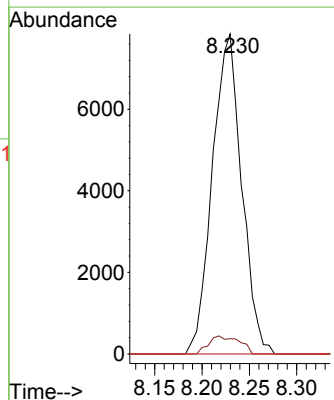
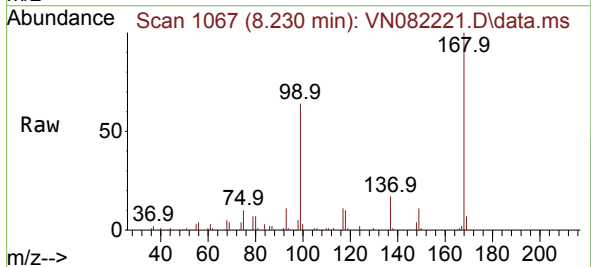
Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

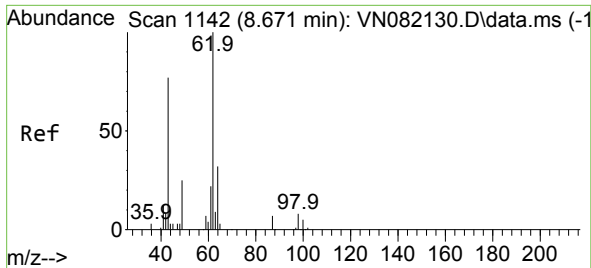
Tgt Ion: 43 Resp: 3760
Ion Ratio Lower Upper
43 100
61 7.6 11.3 16.9#
70 4.9 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.716 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Tgt Ion: 117 Resp: 16871
Ion Ratio Lower Upper
117 100
119 4.8 76.5 114.7#
121 0.0 23.9 35.9#





#42

1,2-Dichloroethane

Concen: 0.324 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

Instrument :

MSVOA_N

ClientSampleId :

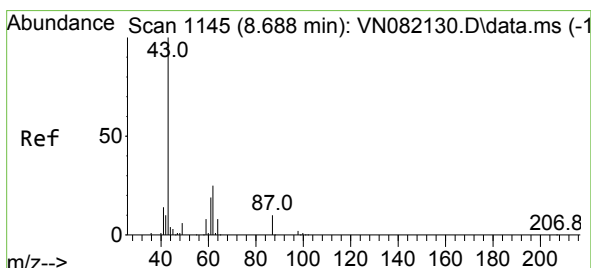
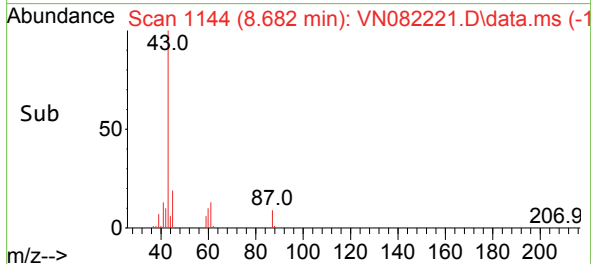
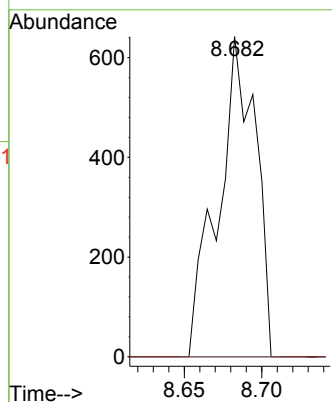
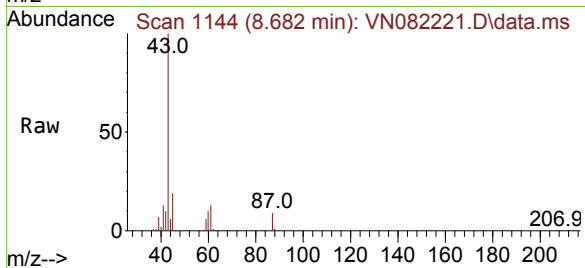
WC-MH-FF

Tgt Ion: 62 Resp: 1083

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 46.044 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

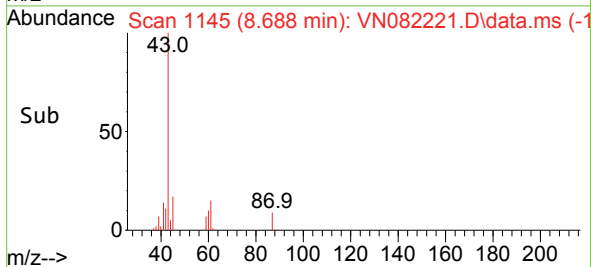
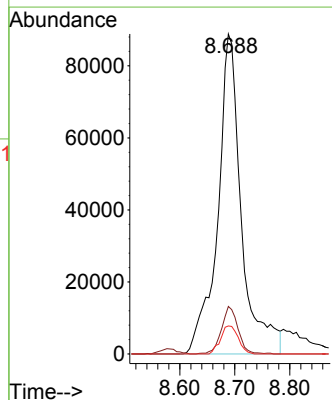
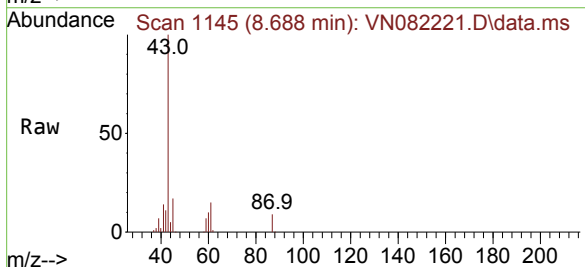
Tgt Ion: 43 Resp: 265847

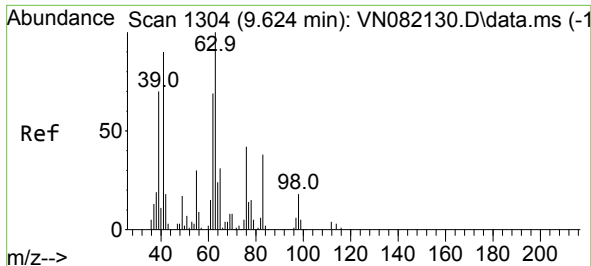
Ion Ratio Lower Upper

43 100

61 10.5 22.8 34.2#

87 6.5 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.691 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

Instrument :

MSVOA_N

ClientSampleId :

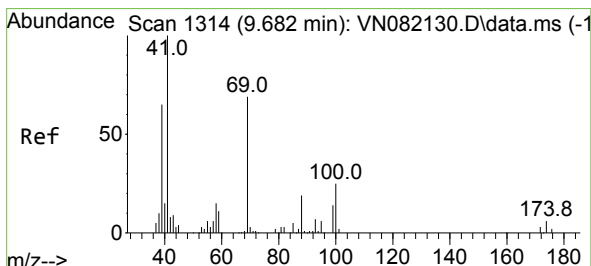
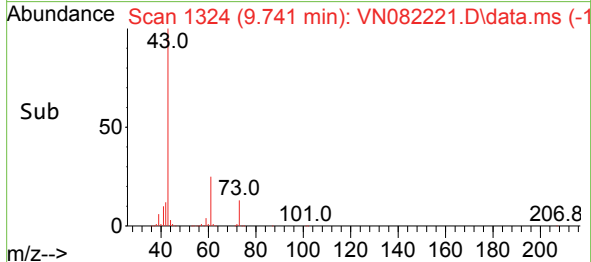
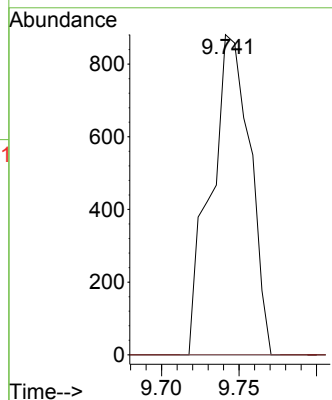
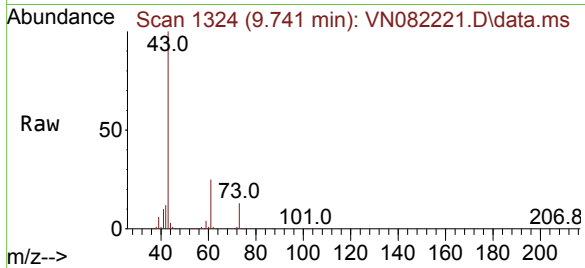
WC-MH-FF

Tgt Ion: 63 Resp: 1548

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



#48

Methyl methacrylate

Concen: 1.647 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.018 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

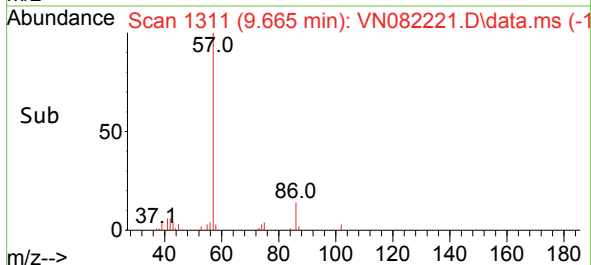
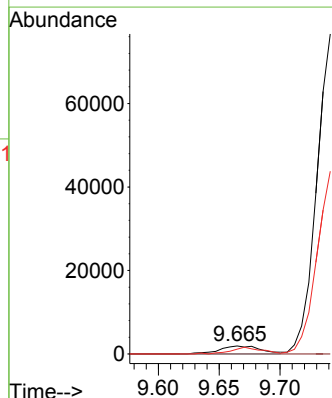
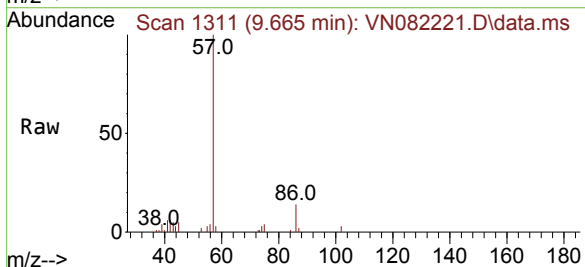
Tgt Ion: 41 Resp: 4532

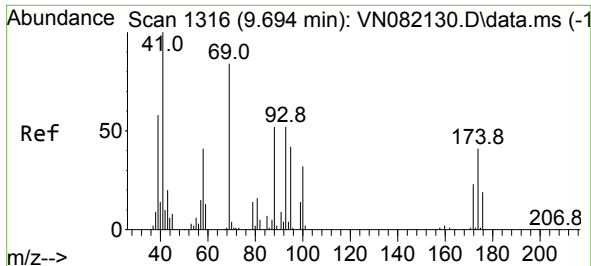
Ion Ratio Lower Upper

41 100

69 0.0 77.9 116.9#

39 62.8 50.9 76.3





#49

1,4-Dioxane

Concen: 1.504 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN082221.D

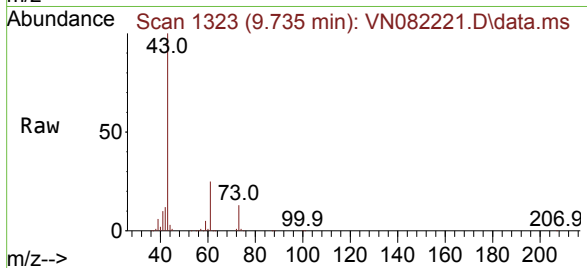
Acq: 20 May 2024 19:48

Instrument :

MSVOA_N

ClientSampleId :

WC-MH-FF



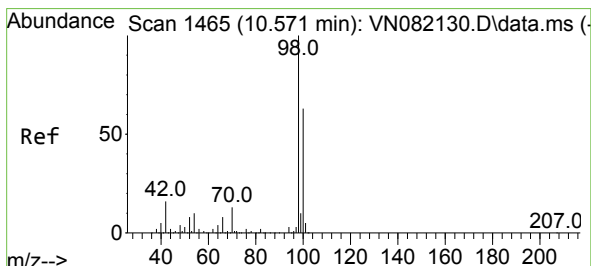
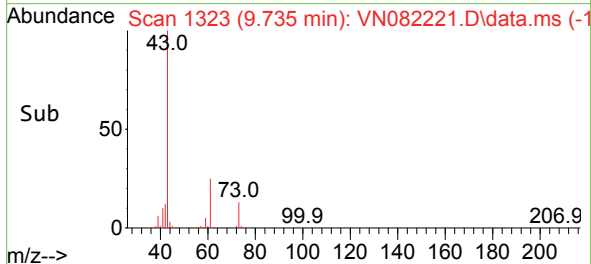
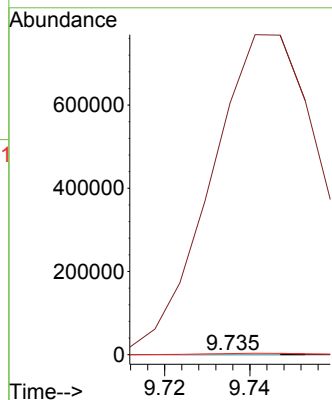
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 2466544.8 19.0 28.6#

58 10770.7 50.6 76.0#



#50

Toluene-d8

Concen: 56.215 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN082221.D

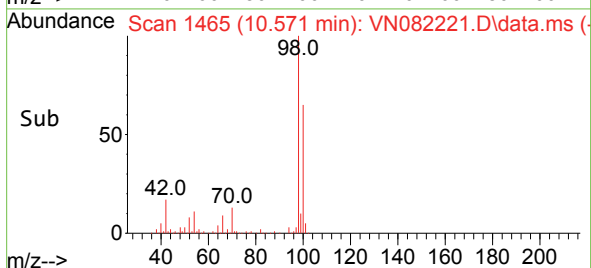
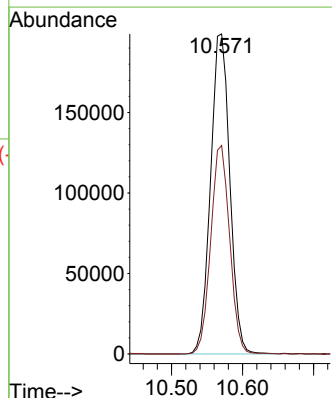
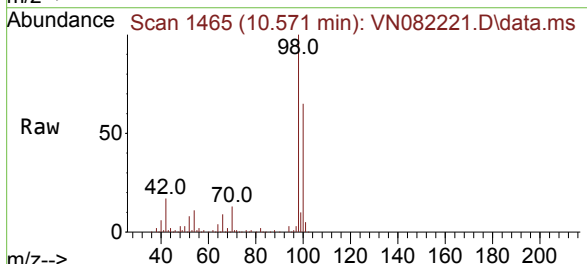
Acq: 20 May 2024 19:48

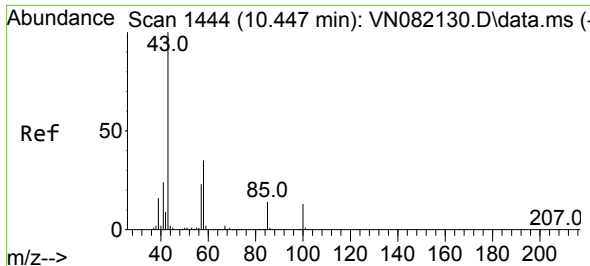
Tgt Ion: 98 Resp: 374154

Ion Ratio Lower Upper

98 100

100 64.0 51.8 77.6

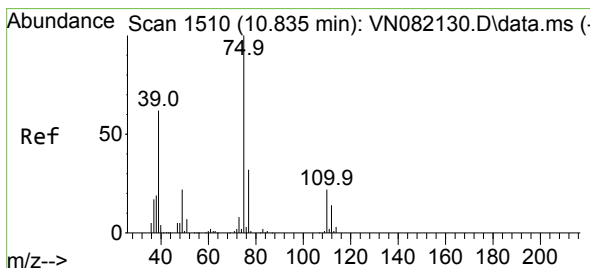
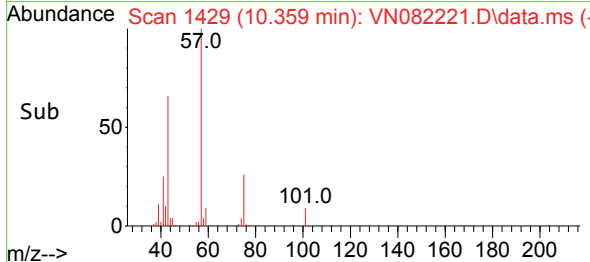
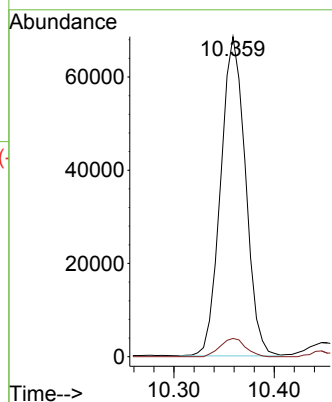
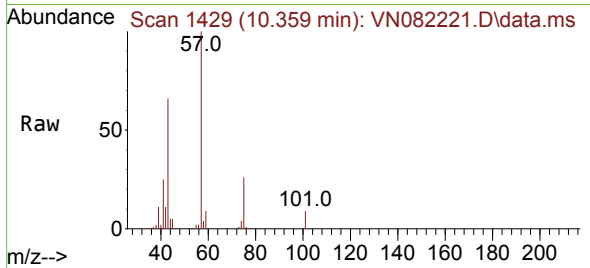




#51
4-Methyl-2-Pentanone
Concen: 35.863 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

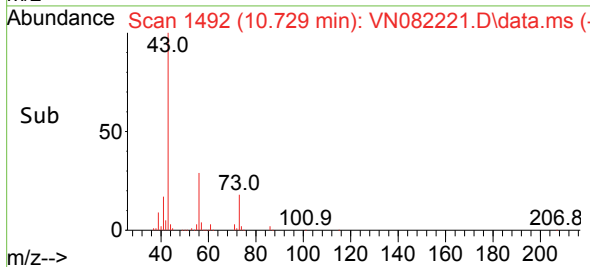
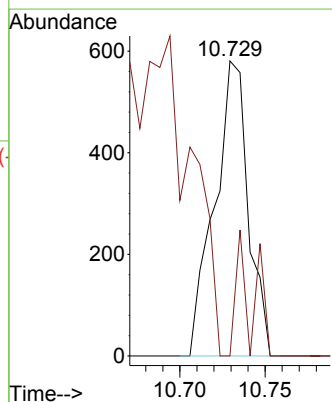
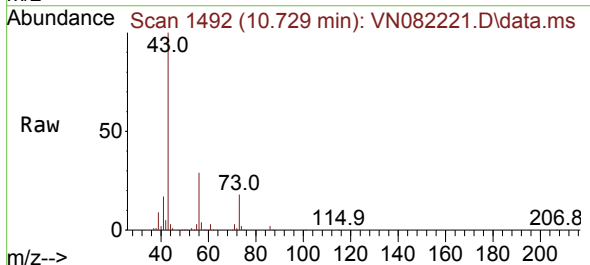
Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

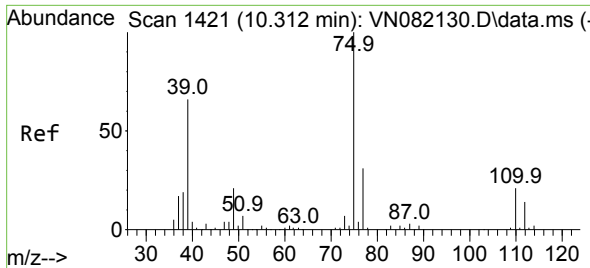
Tgt Ion: 43 Resp: 117646
Ion Ratio Lower Upper
43 100
58 5.8 33.2 49.8#



#53
t-1,3-Dichloropropene
Concen: 0.248 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Tgt Ion: 75 Resp: 797
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

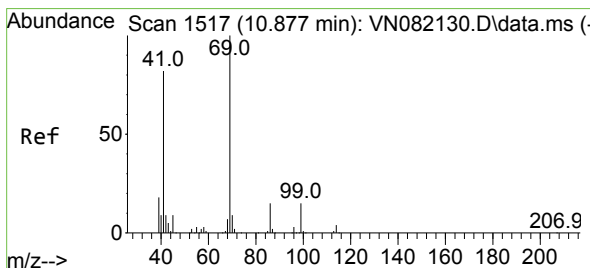
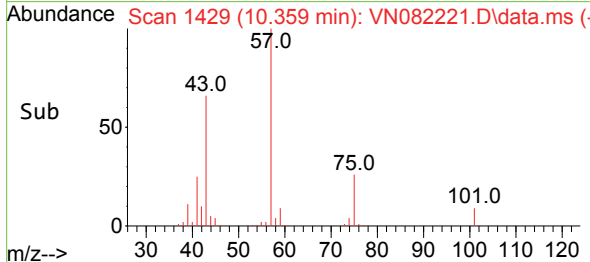
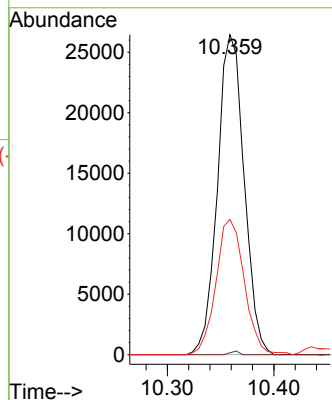
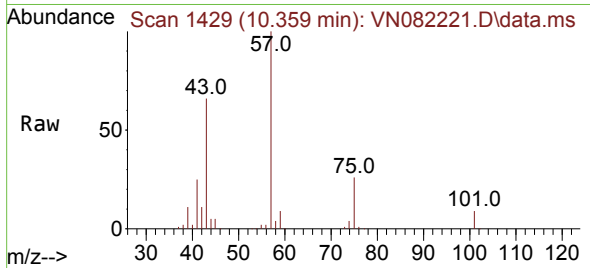




#54
cis-1,3-Dichloropropene
Concen: 13.508 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

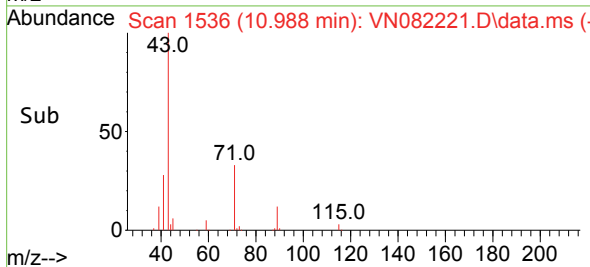
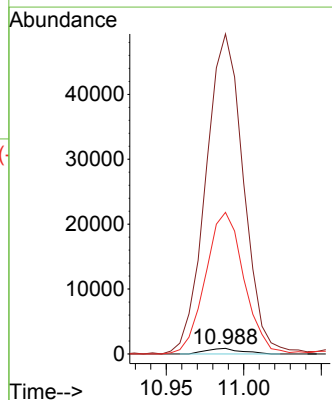
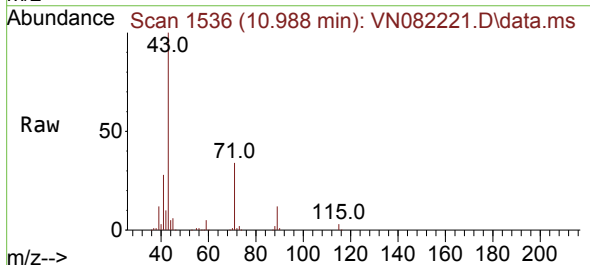
Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

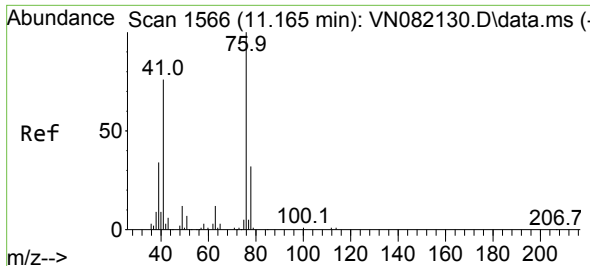
Tgt Ion: 75 Resp: 45913
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.4#
39 41.6 34.8 52.2



#56
Ethyl methacrylate
Concen: 0.419 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Tgt Ion: 69 Resp: 1348
Ion Ratio Lower Upper
69 100
41 6202.6 46.6 70.0#
39 2809.7 26.5 39.7#

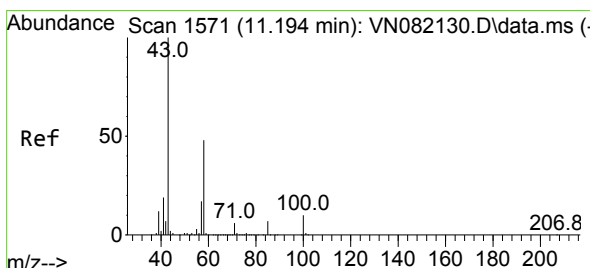
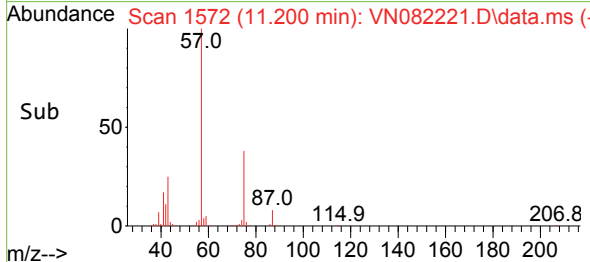
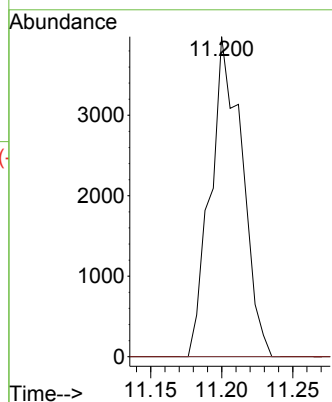
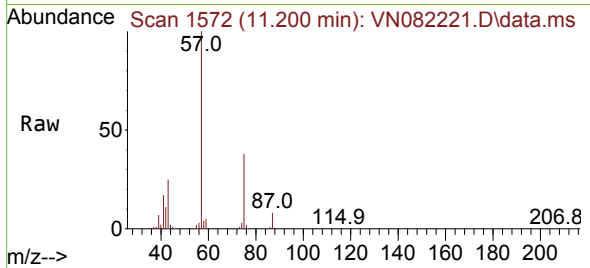




#57
1,3-Dichloropropane
Concen: 1.737 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.035 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

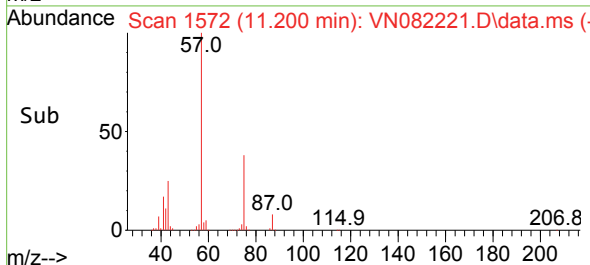
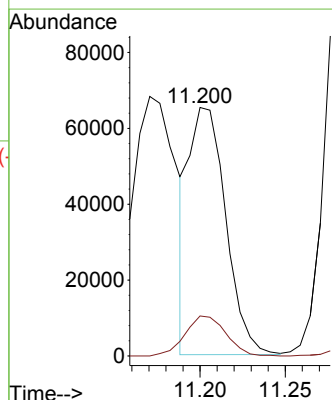
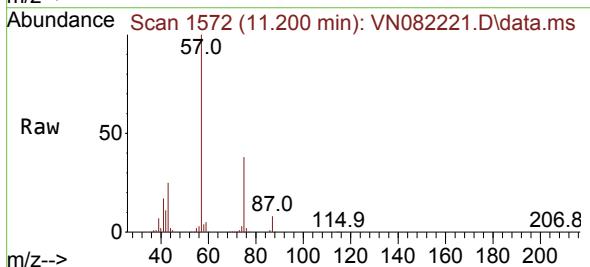
Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

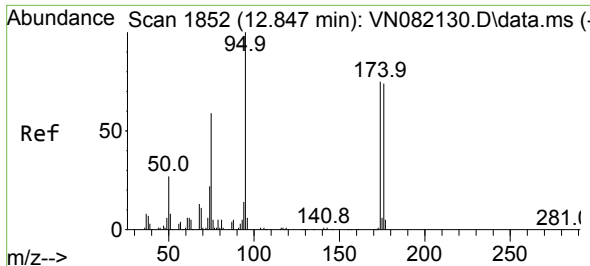
Tgt Ion: 76 Resp: 6151
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#



#59
2-Hexanone
Concen: 40.762 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Tgt Ion: 43 Resp: 97909
Ion Ratio Lower Upper
43 100
58 18.0 28.3 84.9#

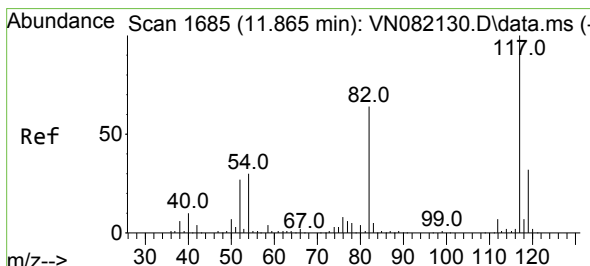
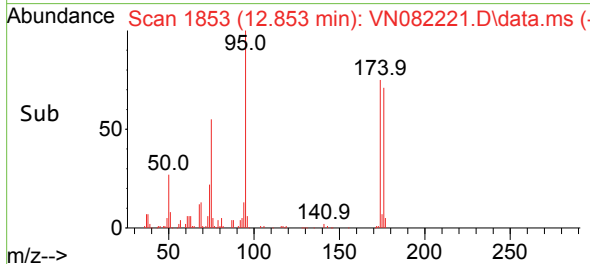
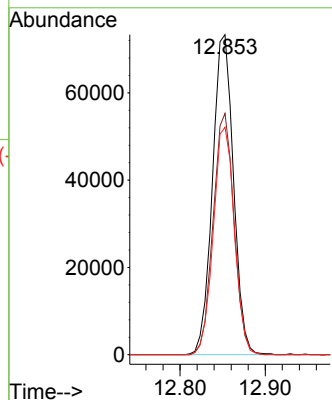
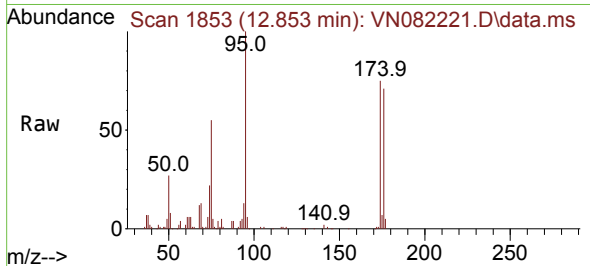




#62
4-Bromofluorobenzene
Concen: 52.832 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

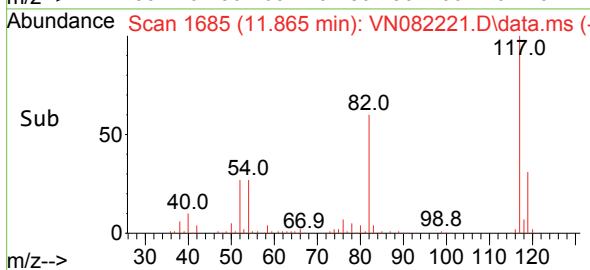
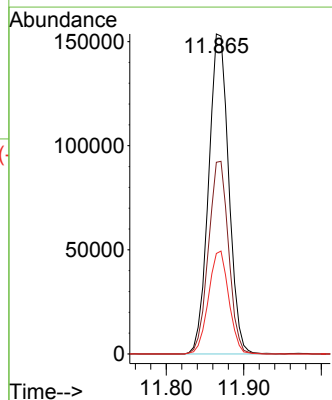
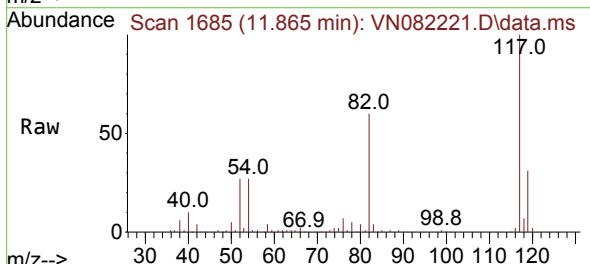
Instrument :
MSVOA_N
ClientSampleId :
WC-MH-FF

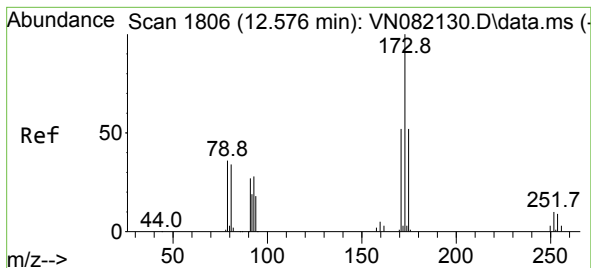
Tgt Ion: 95 Resp: 125508
Ion Ratio Lower Upper
95 100
174 75.2 0.0 160.6
176 71.3 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN082221.D
Acq: 20 May 2024 19:48

Tgt Ion: 117 Resp: 277217
Ion Ratio Lower Upper
117 100
82 59.9 44.6 66.8
119 31.4 25.9 38.9





#71

Bromoform

Concen: 1.352 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

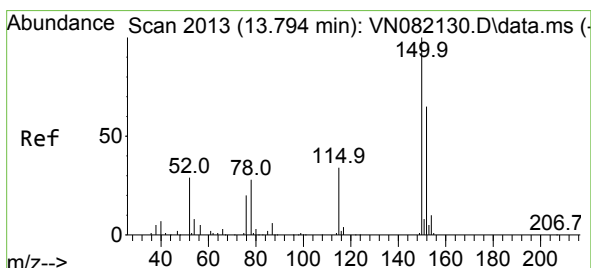
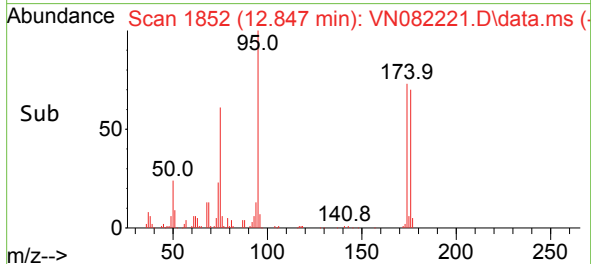
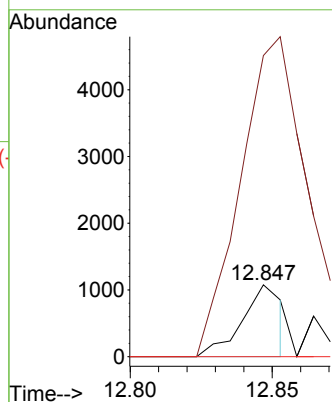
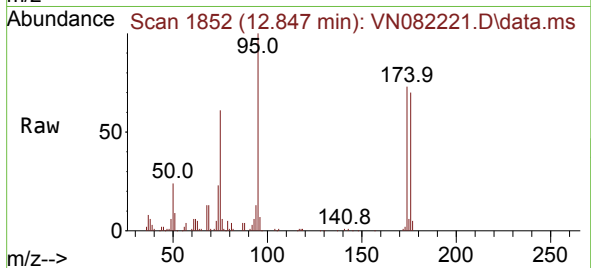
Instrument :

MSVOA_N

ClientSampleId :

WC-MH-FF

Tgt Ion:173 Resp: 1060
 Ion Ratio Lower Upper
 173 100
 175 0.0 24.6 74.0#
 254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

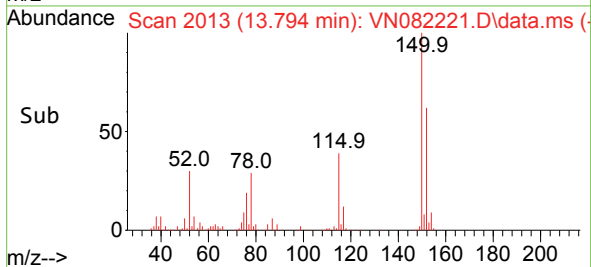
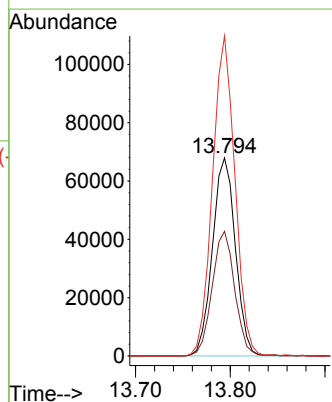
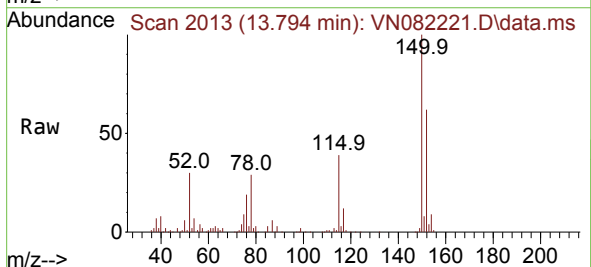
RT: 13.794 min Scan# 2013

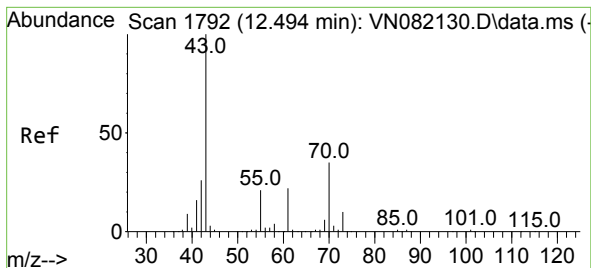
Delta R.T. -0.000 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

Tgt Ion:152 Resp: 114396
 Ion Ratio Lower Upper
 152 100
 115 62.0 30.4 91.3
 150 158.1 0.0 353.2





#74

N-amy1 acetate

Concen: 0.293 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN082221.D

Acq: 20 May 2024 19:48

Instrument :

MSVOA_N

ClientSampleId :

WC-MH-FF

Tgt Ion: 43 Resp: 1463

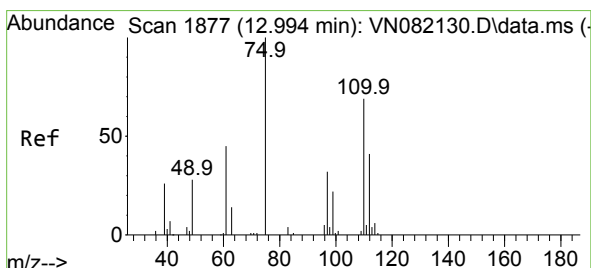
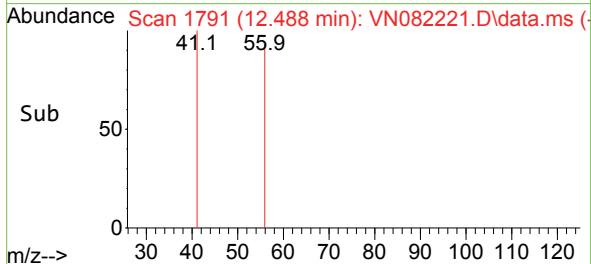
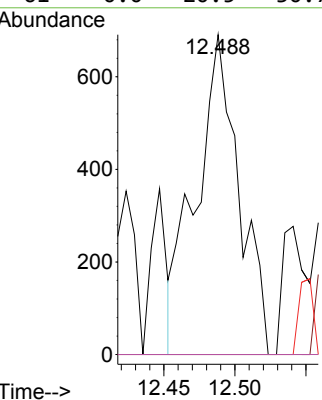
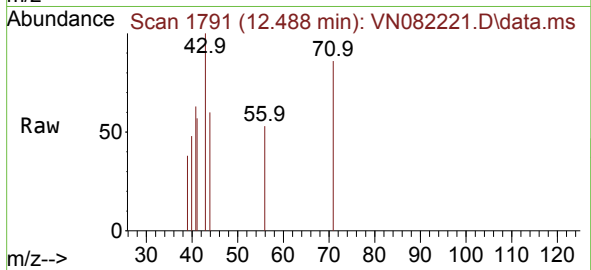
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.4#

55 0.0 21.3 31.9#

61 0.0 20.5 30.7#



#76

1,2,3-Trichloropropane

Concen: 30.368 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN082221.D

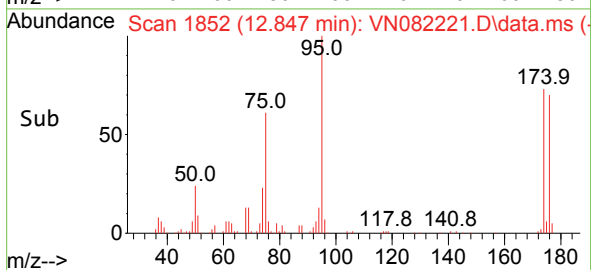
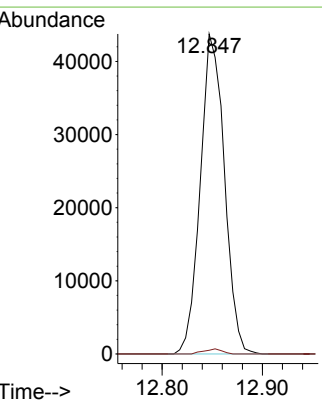
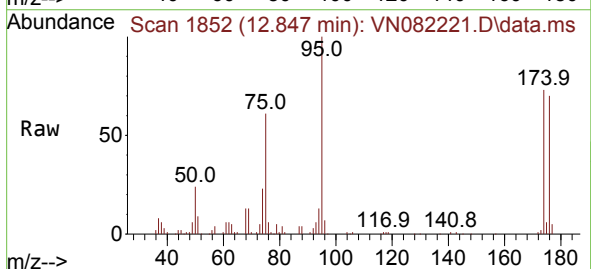
Acq: 20 May 2024 19:48

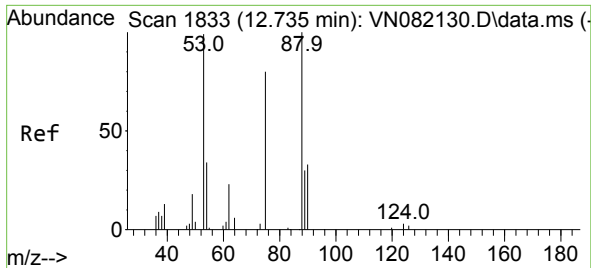
Tgt Ion: 75 Resp: 73120

Ion Ratio Lower Upper

75 100

77 1.2 90.5 271.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.031 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN082221.D
 Acq: 20 May 2024 19:48

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-MH-FF

Tgt Ion: 75 Resp: 73120
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.9 109.3#
 89 0.0 39.1 58.7#

