

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022324\
 Data File : VN081181.D
 Acq On : 24 Feb 2024 00:09
 Operator : JC\MD
 Sample : P1574-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-11

Quant Time: Feb 24 03:34:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

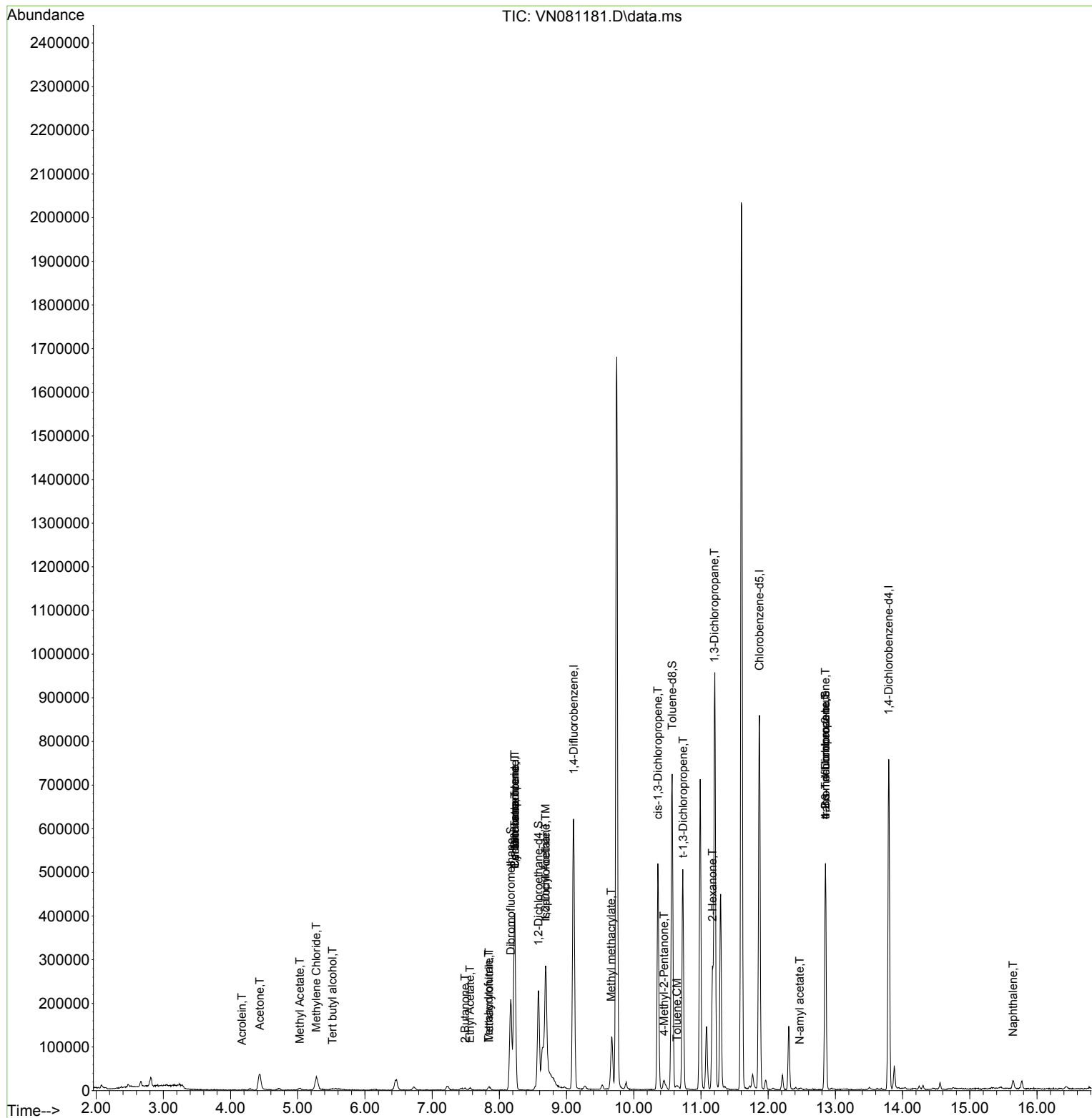
Internal Standards						
1) Pentafluorobenzene	8.229	168	277570	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	545697	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	492383	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	193634	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	177370	52.133	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%			
35) Dibromofluoromethane	8.171	113	146043	47.328	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.660%			
50) Toluene-d8	10.570	98	487510	44.482	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 88.960%			
62) 4-Bromofluorobenzene	12.853	95	175774	42.683	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 85.360%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1048	Below Cal	#	43
6) Chloroethane	3.106	64	116	Below Cal	#	42
11) Tert butyl alcohol	5.518	59	2007	3.208	ug/l #	82
13) Acrolein	4.171	56	525	1.566	ug/l #	51
16) Acetone	4.436	43	70249	52.475	ug/l	98
18) Methyl Acetate	5.030	43	8212	2.515	ug/l #	87
20) Methylene Chloride	5.277	84	22286	5.610	ug/l	88
25) 2-Butanone	7.488	43	6334	2.929	ug/l	94
29) Tetrahydrofuran	7.841	42	5910	4.094	ug/l	93
31) Cyclohexane	8.229	56	7050	1.200	ug/l #	11
36) 1,1-Dichloropropene	8.229	75	24410	4.617	ug/l #	53
37) Ethyl Acetate	7.565	43	7399	1.551	ug/l	99
38) Carbon Tetrachloride	8.229	117	31643	5.916	ug/l #	17
41) Methacrylonitrile	7.847	41	3394	1.250	ug/l #	51
42) 1,2-Dichloroethane	8.688	62	2116	0.396	ug/l #	75
43) Isopropyl Acetate	8.688	43	444796	53.304	ug/l #	79
48) Methyl methacrylate	9.665	41	7919	2.040	ug/l #	46
49) 1,4-Dioxane	9.676	88	83	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.453	43	21313	4.440	ug/l #	82
52) Toluene	10.641	92	3562	0.368	ug/l	79
53) t-1,3-Dichloropropene	10.735	75	1256	0.214	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	89701	14.144	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	10818	1.679	ug/l #	44
59) 2-Hexanone	11.170	43	231631	60.866	ug/l #	26
74) N-amyl acetate	12.470	43	1950	0.272	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	94585	21.499	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	94585	55.337	ug/l #	14
95) Naphthalene	15.647	128	17958	1.276	ug/l #	95

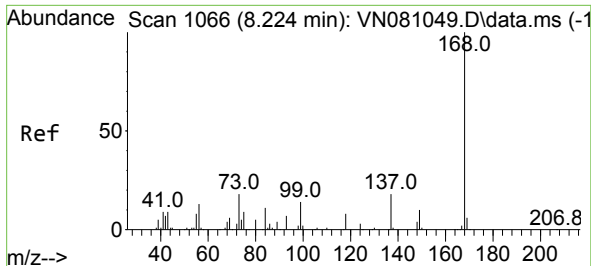
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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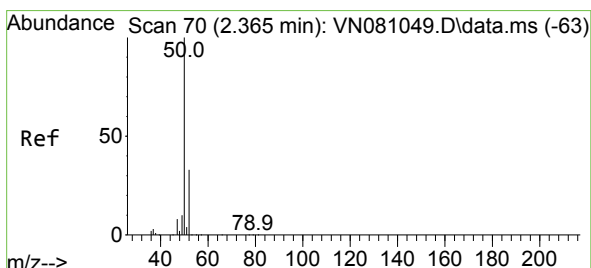
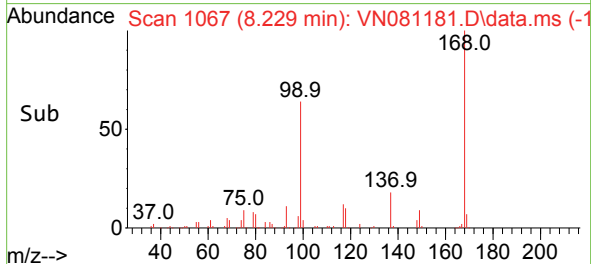
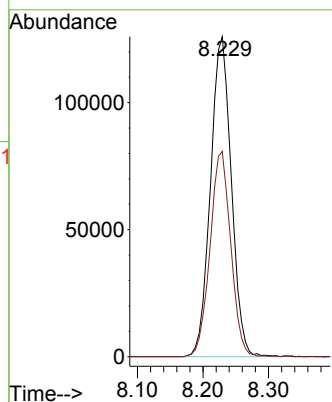
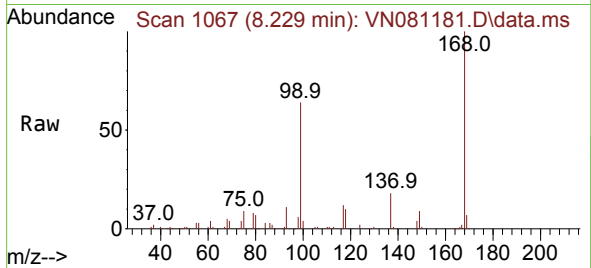




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

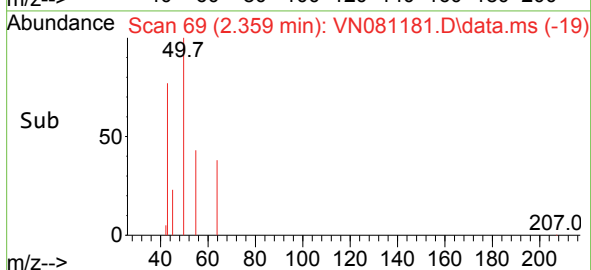
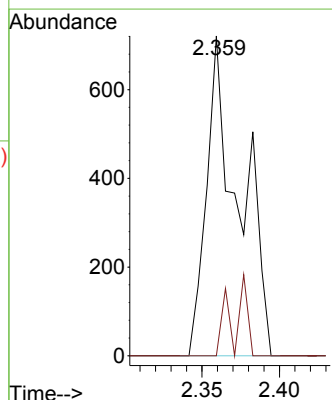
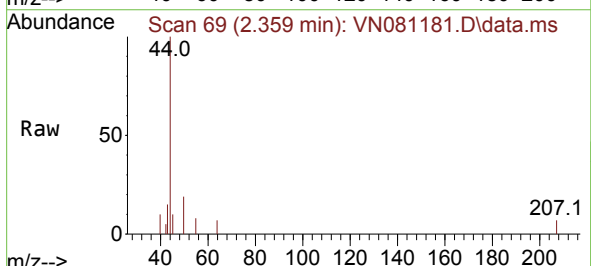
Instrument :
MSVOA_N
ClientSampleId :
SB-11

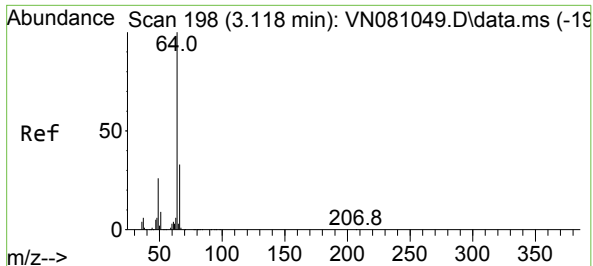
Tgt Ion:168 Resp: 277570
Ion Ratio Lower Upper
168 100
99 64.2 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. -0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 50 Resp: 1048
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

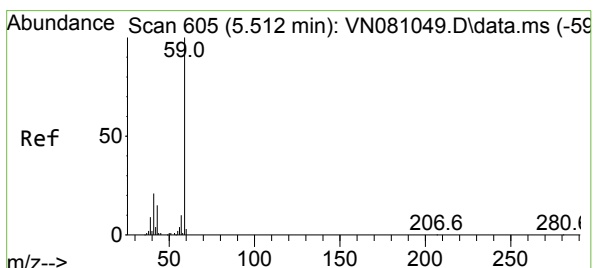
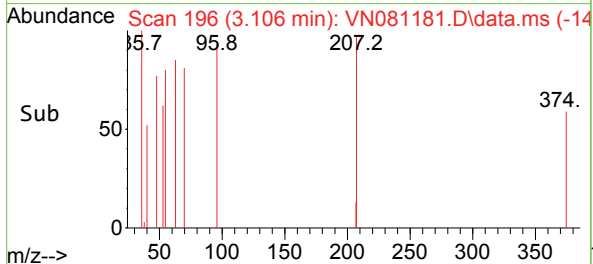
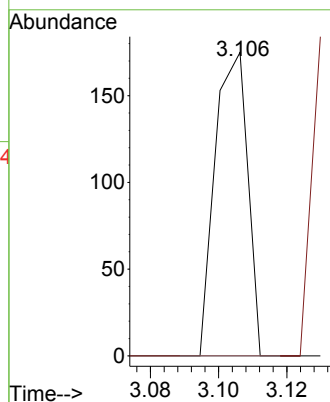
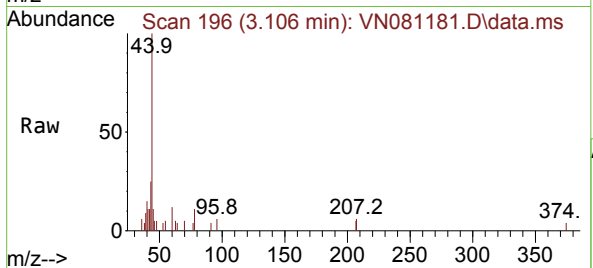




#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

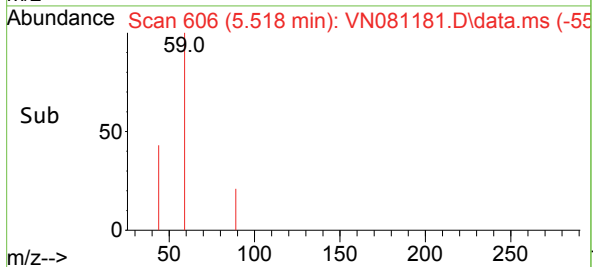
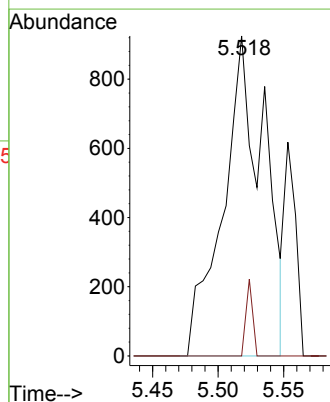
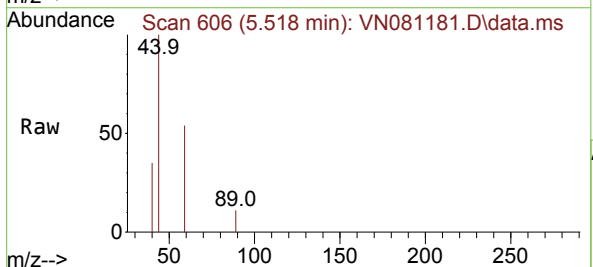
Instrument :
MSVOA_N
ClientSampleId :
SB-11

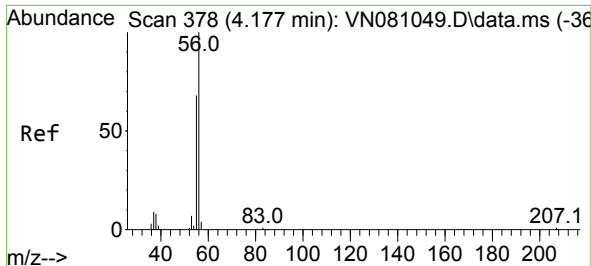
Tgt Ion: 64 Resp: 116
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#



#11
Tert butyl alcohol
Concen: 3.208 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 59 Resp: 2007
Ion Ratio Lower Upper
59 100
57 3.9 8.6 12.8#

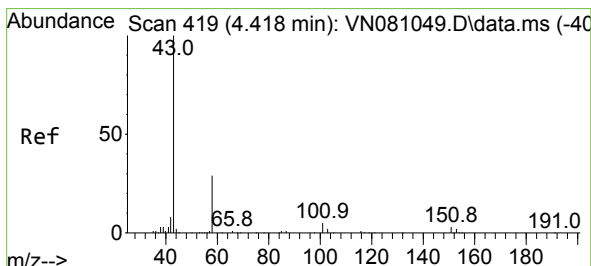
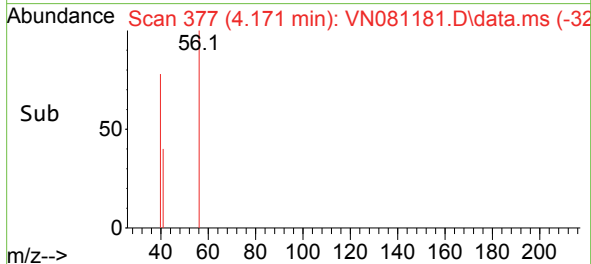
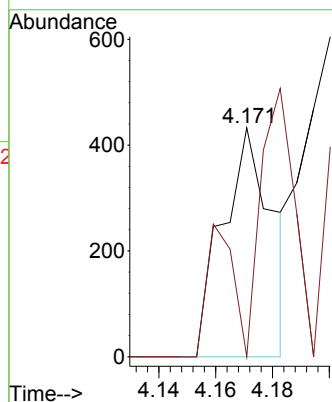
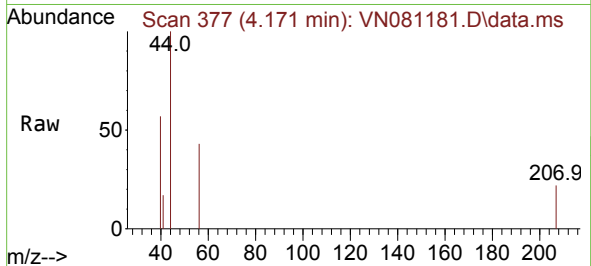




#13
Acrolein
Concen: 1.566 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

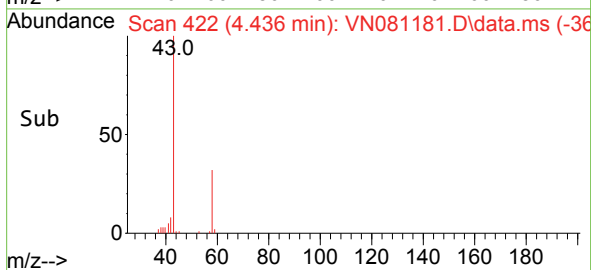
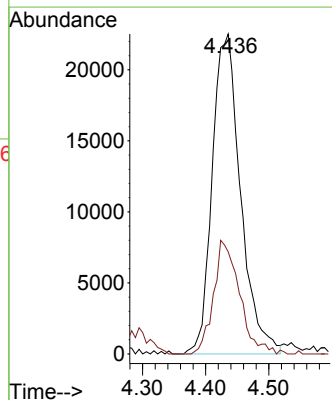
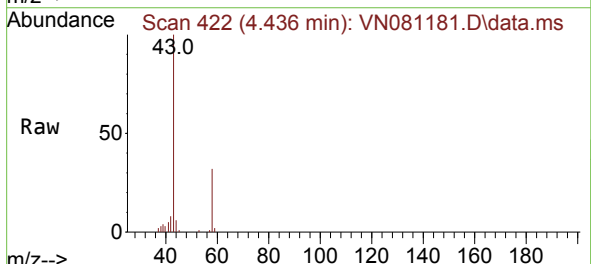
Instrument :
MSVOA_N
ClientSampleId :
SB-11

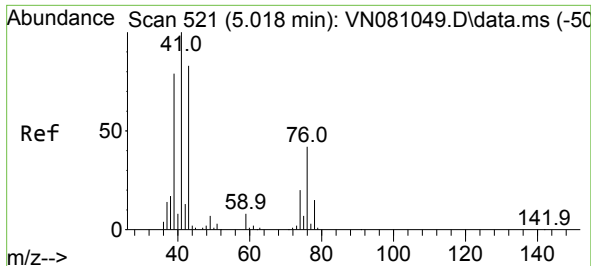
Tgt Ion: 56 Resp: 525
Ion Ratio Lower Upper
56 100
55 109.1 55.3 82.9#



#16
Acetone
Concen: 52.475 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.017 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 43 Resp: 70249
Ion Ratio Lower Upper
43 100
58 31.9 24.8 37.2

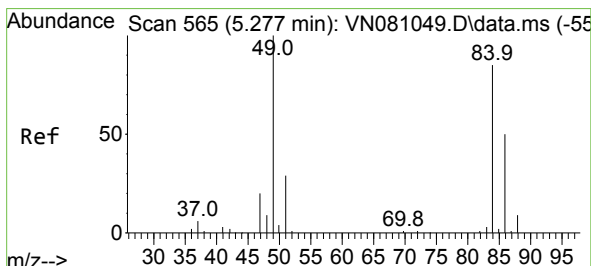
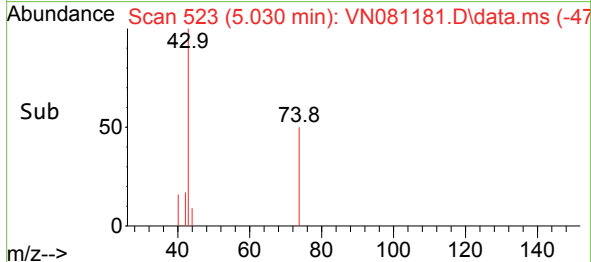
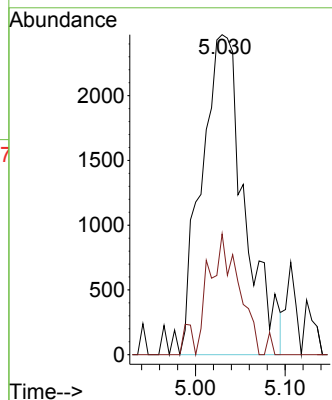
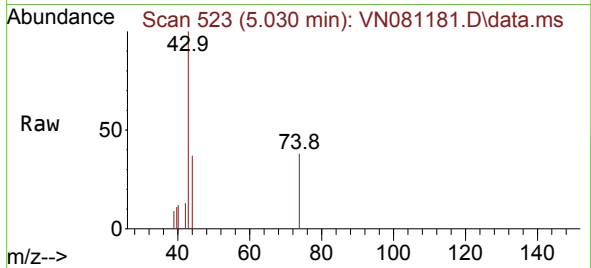




#18
Methyl Acetate
Concen: 2.515 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

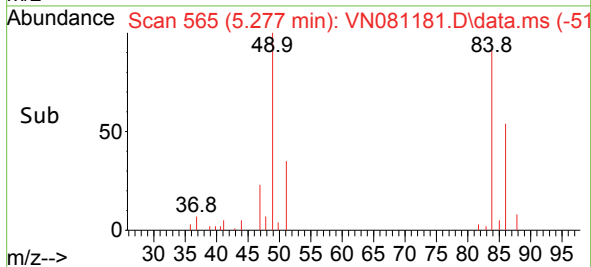
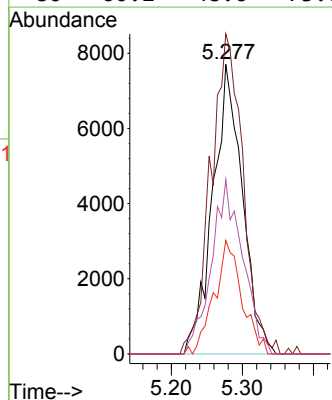
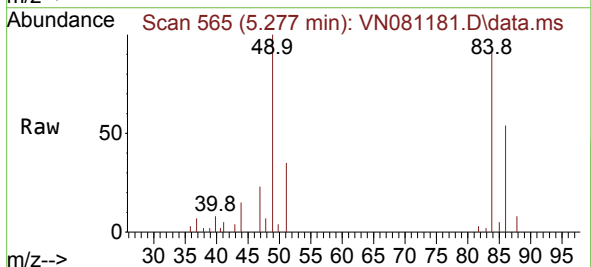
Instrument :
MSVOA_N
ClientSampleId :
SB-11

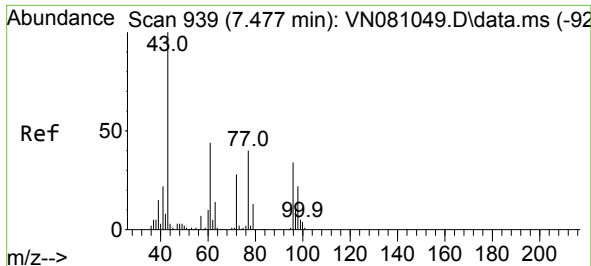
Tgt Ion: 43 Resp: 8212
Ion Ratio Lower Upper
43 100
74 27.8 17.3 25.9#



#20
Methylene Chloride
Concen: 5.610 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 84 Resp: 22286
Ion Ratio Lower Upper
84 100
49 110.5 108.1 162.1
51 39.2 32.9 49.3
86 60.2 48.6 73.0

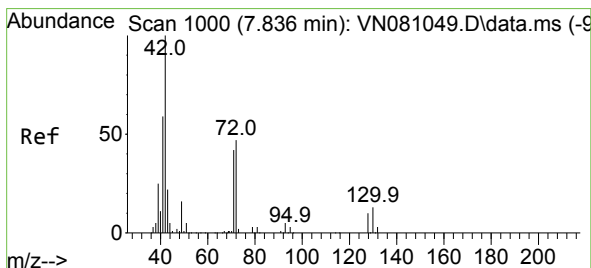
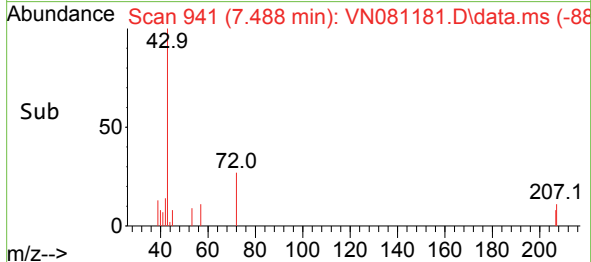
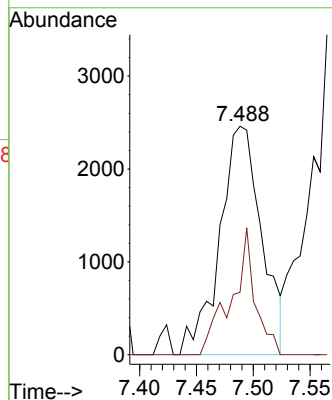
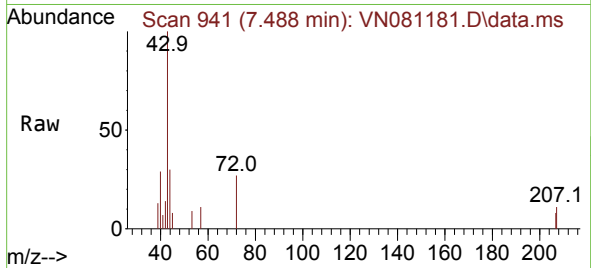




#25
2-Butanone
Concen: 2.929 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

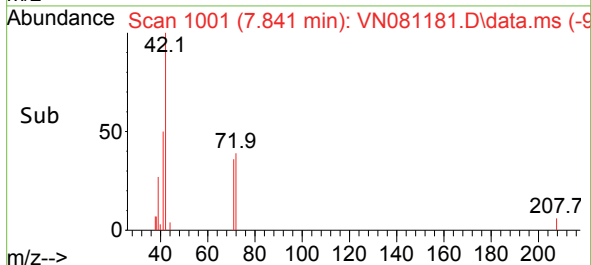
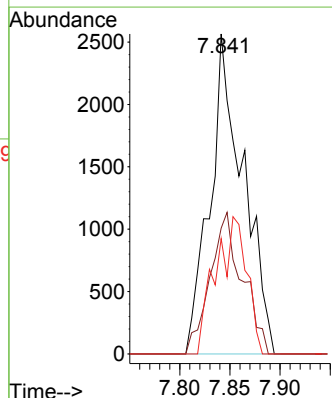
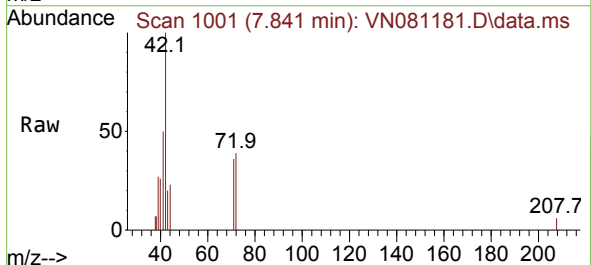
Instrument :
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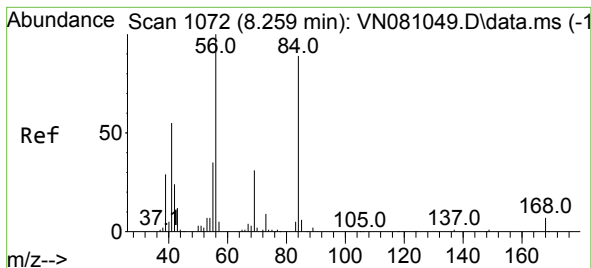
Tgt Ion: 43 Resp: 6334
Ion Ratio Lower Upper
43 100
72 27.3 19.5 29.3



#29
Tetrahydrofuran
Concen: 4.094 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 42 Resp: 5910
Ion Ratio Lower Upper
42 100
72 42.9 31.1 46.7
71 40.3 28.3 42.5





#31

Cyclohexane

Concen: 1.200 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.030 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

Instrument :

MSVOA_N

ClientSampleId :

SB-11

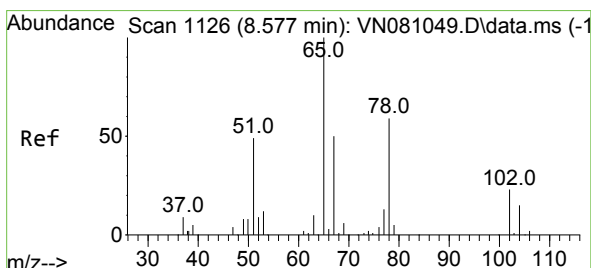
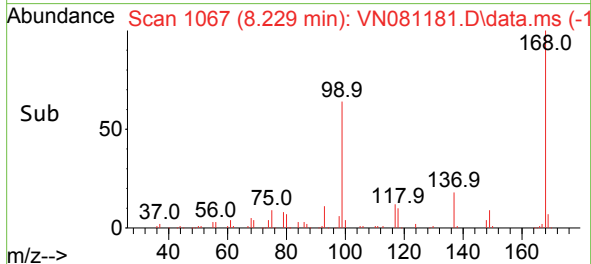
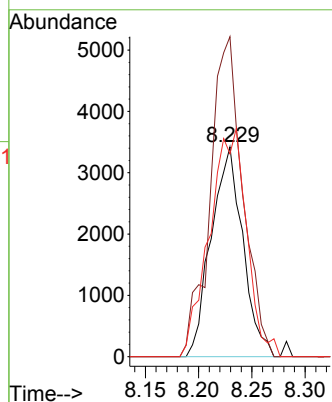
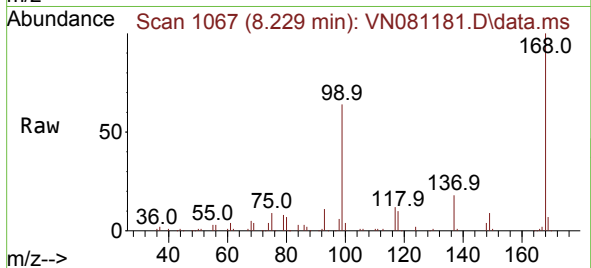
Tgt Ion: 56 Resp: 7050

Ion Ratio Lower Upper

56 100

69 152.6 20.1 30.1#

84 96.8 56.9 85.3#



#33

1,2-Dichloroethane-d4

Concen: 52.133 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081181.D

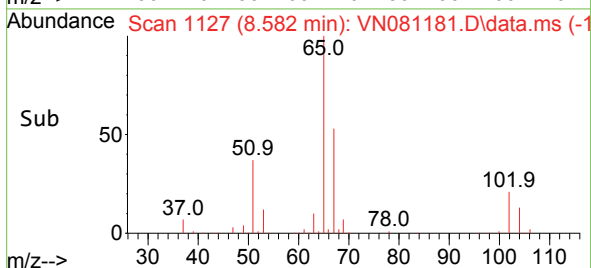
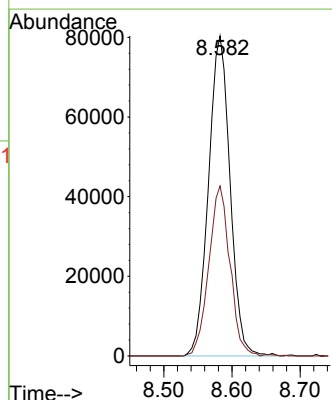
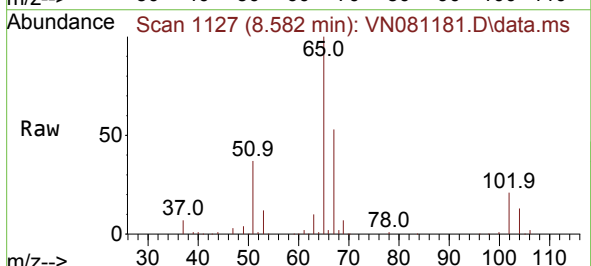
Acq: 24 Feb 2024 00:09

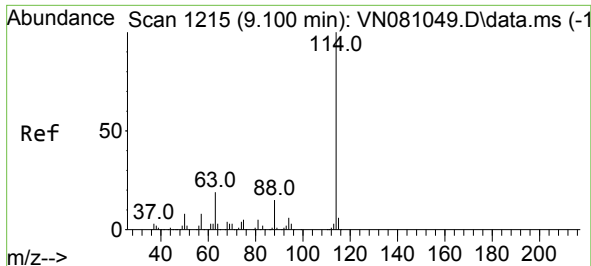
Tgt Ion: 65 Resp: 177370

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 114

Delta R.T. 0.006 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

Instrument :

MSVOA_N

ClientSampleId :

SB-11

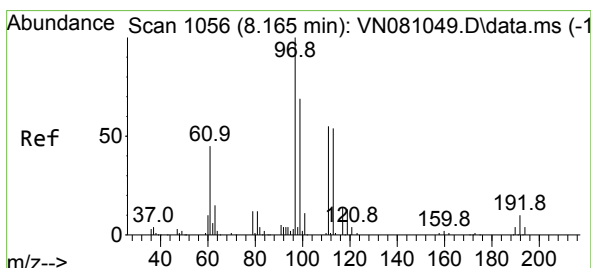
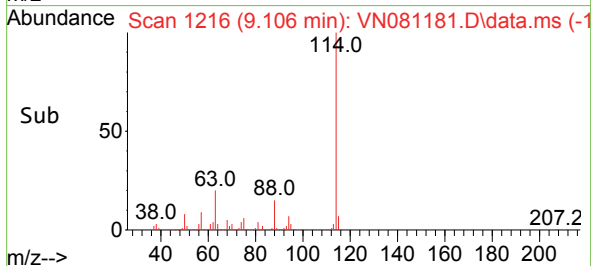
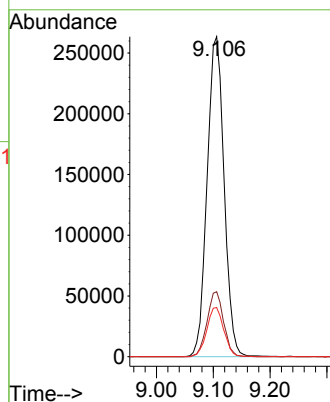
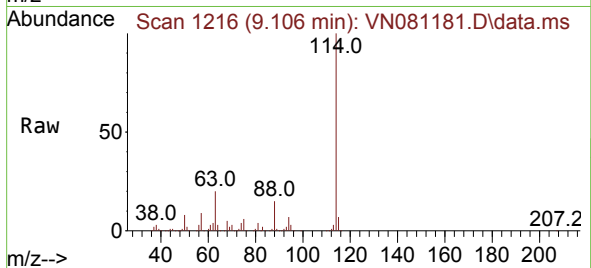
Tgt Ion:114 Resp: 545697

Ion Ratio Lower Upper

114 100

63 20.3 0.0 48.0

88 15.4 0.0 34.8



#35

Dibromofluoromethane

Concen: 47.328 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

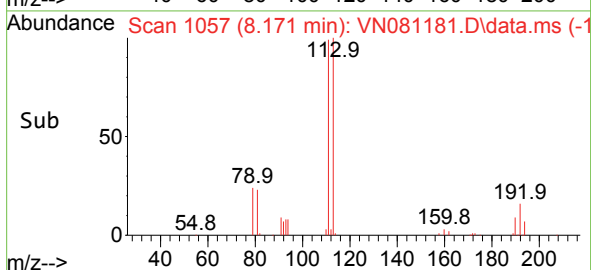
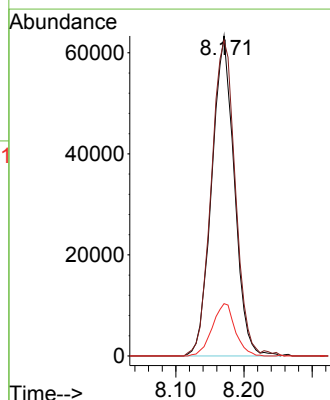
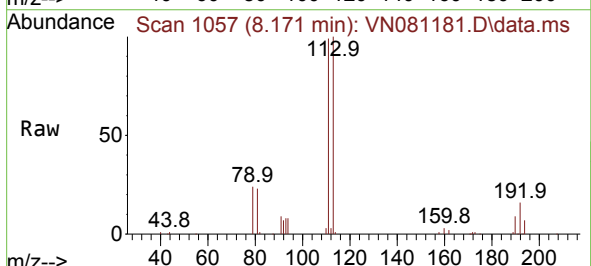
Tgt Ion:113 Resp: 146043

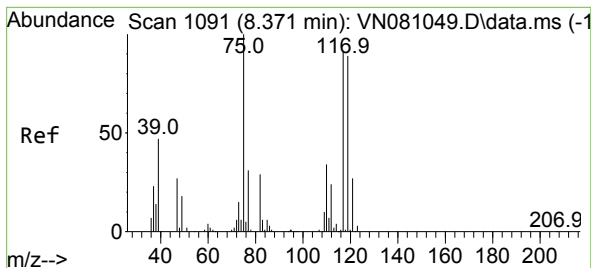
Ion Ratio Lower Upper

113 100

111 105.1 82.2 123.4

192 16.5 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.617 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

Instrument :

MSVOA_N

ClientSampleId :

SB-11

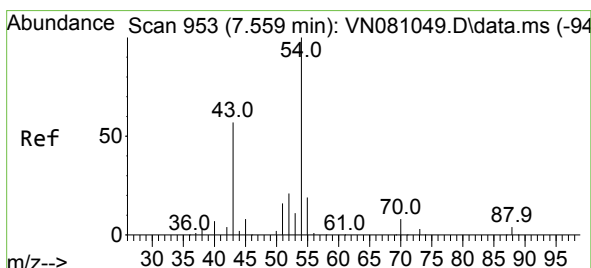
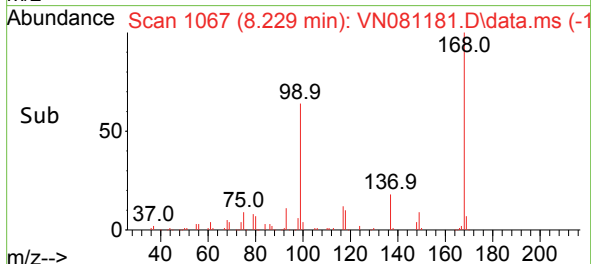
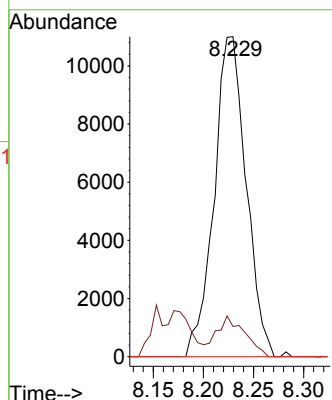
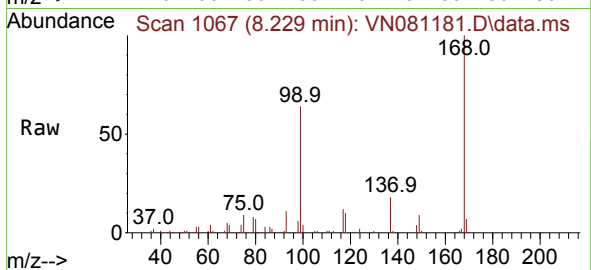
Tgt Ion: 75 Resp: 24410

Ion Ratio Lower Upper

75 100

110 11.3 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 1.551 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

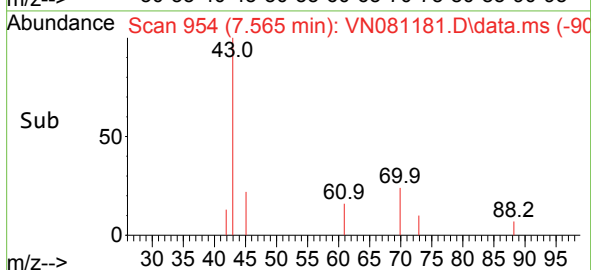
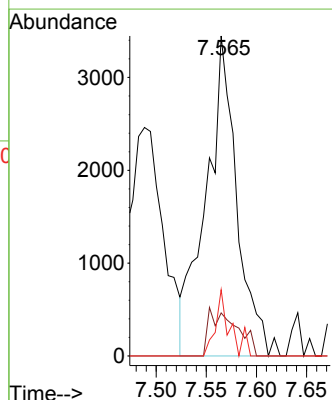
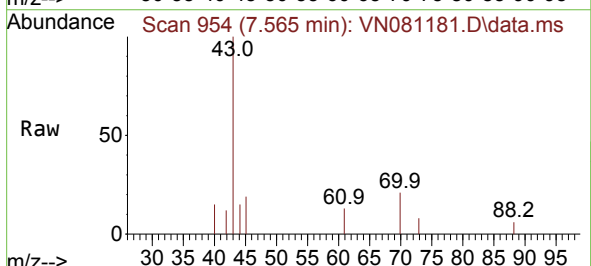
Tgt Ion: 43 Resp: 7399

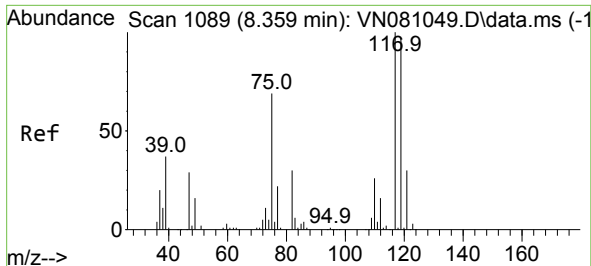
Ion Ratio Lower Upper

43 100

61 13.3 10.6 15.8

70 9.6 8.0 12.0

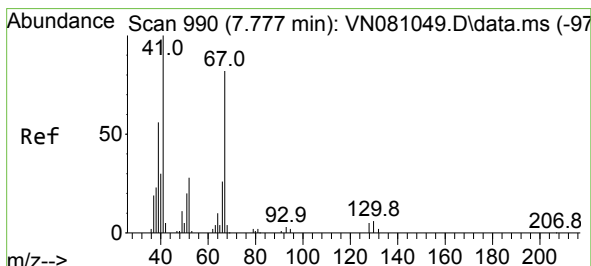
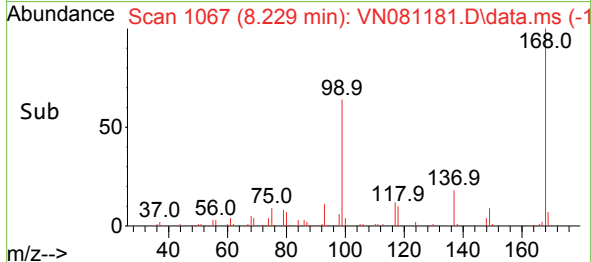
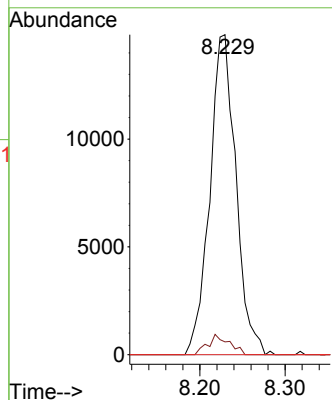
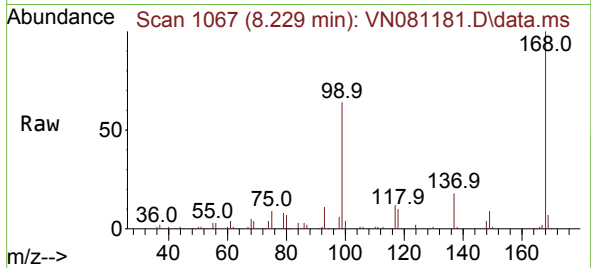




#38
Carbon Tetrachloride
Concen: 5.916 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.130 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

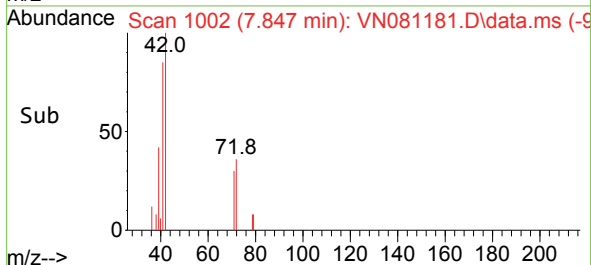
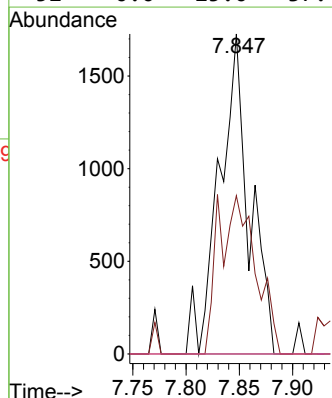
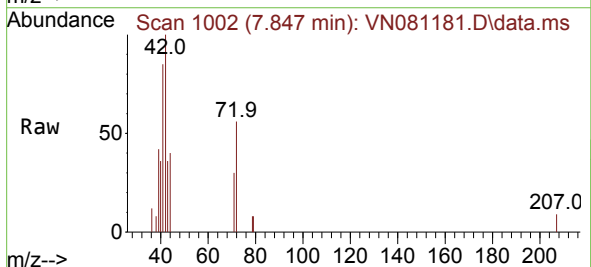
Instrument :
MSVOA_N
ClientSampleId :
SB-11

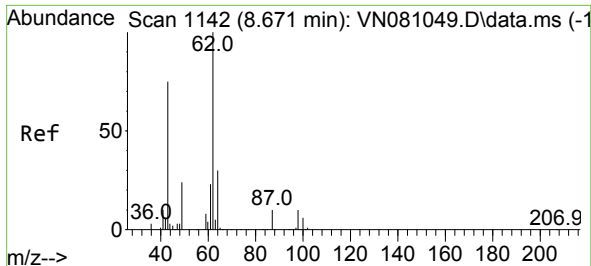
Tgt Ion:117 Resp: 31643
Ion Ratio Lower Upper
117 100
119 4.0 73.4 110.2#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 1.250 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.070 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 41 Resp: 3394
Ion Ratio Lower Upper
41 100
39 61.3 48.4 72.6
67 0.0 56.8 85.2#
52 0.0 25.0 37.4#





#42

1,2-Dichloroethane

Concen: 0.396 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.017 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

Instrument :

MSVOA_N

ClientSampleId :

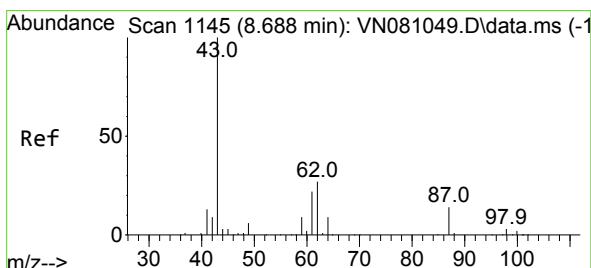
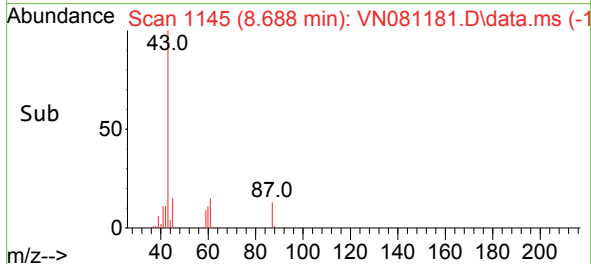
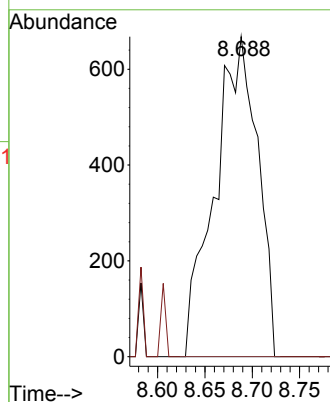
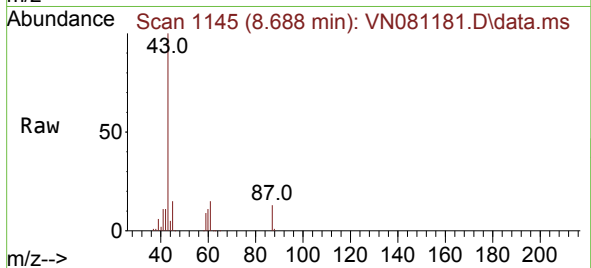
SB-11

Tgt Ion: 62 Resp: 2116

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 53.304 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

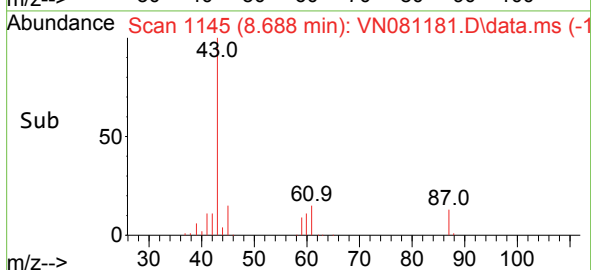
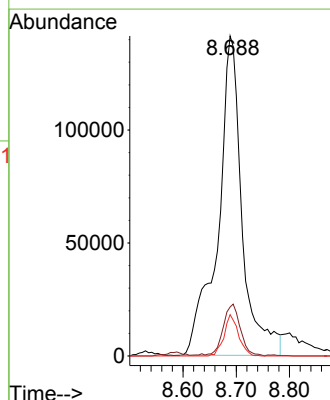
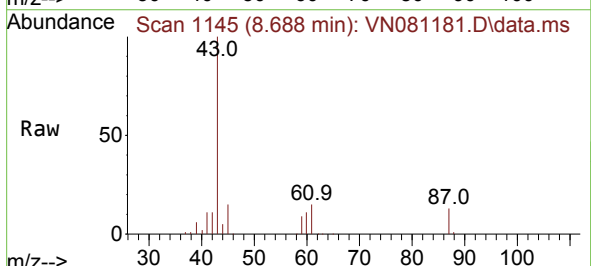
Tgt Ion: 43 Resp: 444796

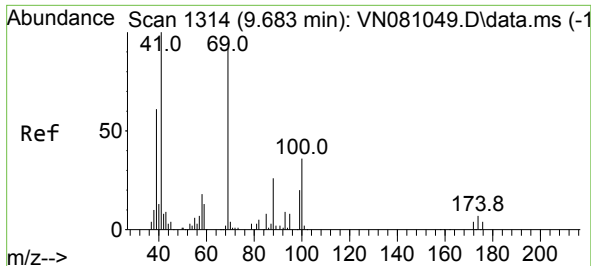
Ion Ratio Lower Upper

43 100

61 11.6 19.9 29.9#

87 7.7 9.0 13.6#

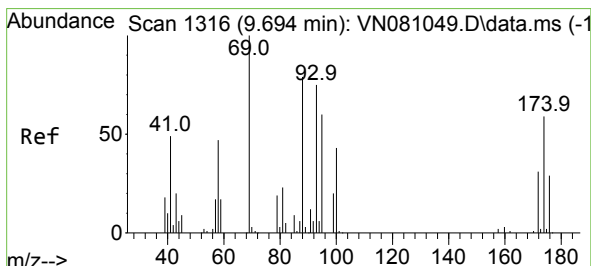
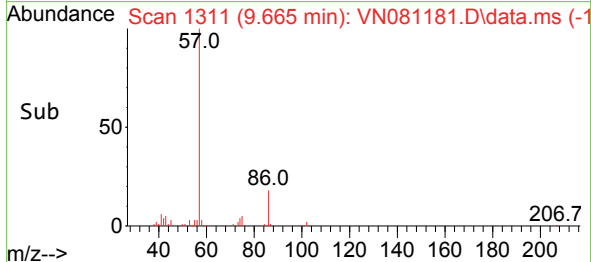
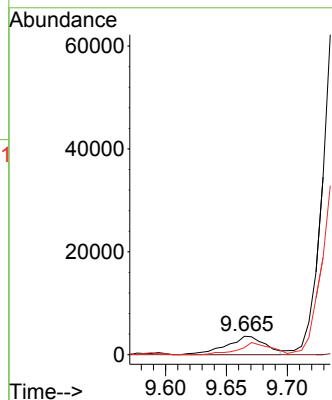
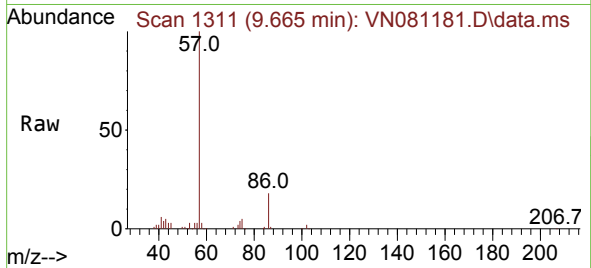




#48
Methyl methacrylate
Concen: 2.040 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

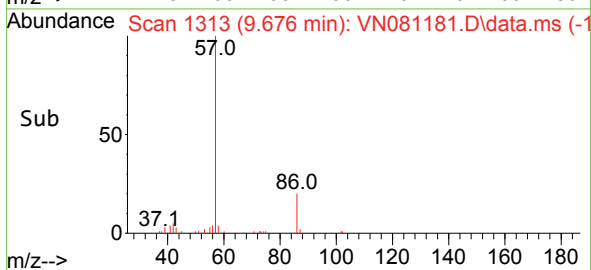
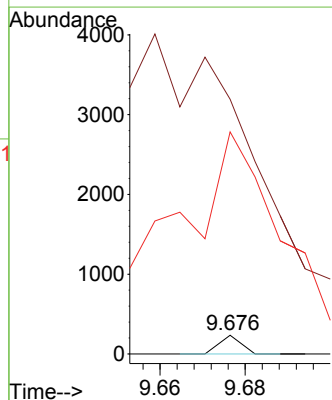
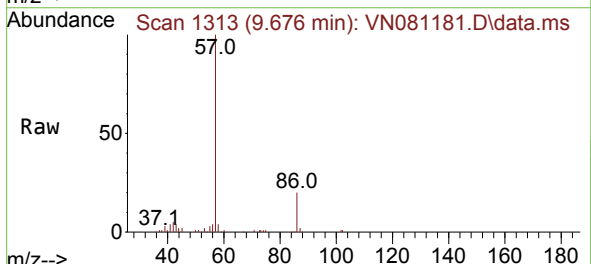
Instrument :
MSVOA_N
ClientSampleId :
SB-11

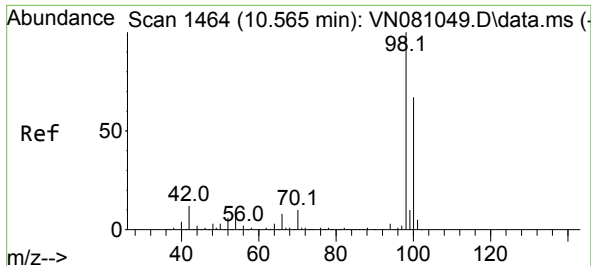
Tgt Ion: 41 Resp: 7919
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 53.9 47.6 71.4



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.676 min Scan# 1313
Delta R.T. -0.018 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 88 Resp: 83
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 6579.5 63.9 95.9#

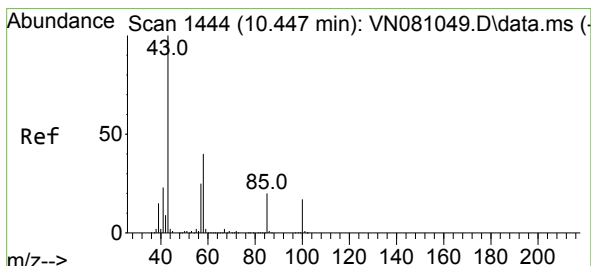
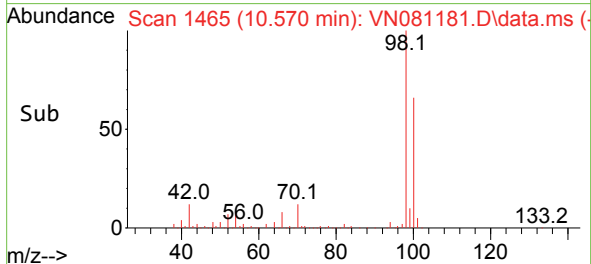
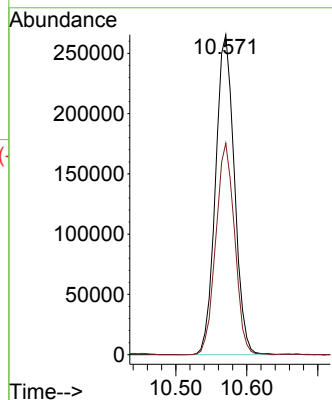
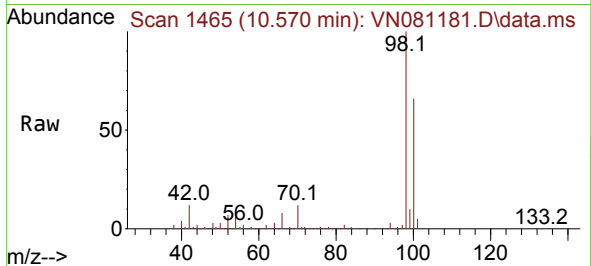




#50
Toluene-d8
Concen: 44.482 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

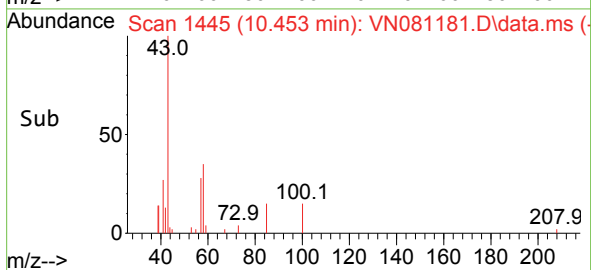
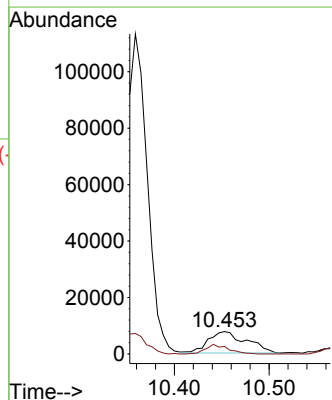
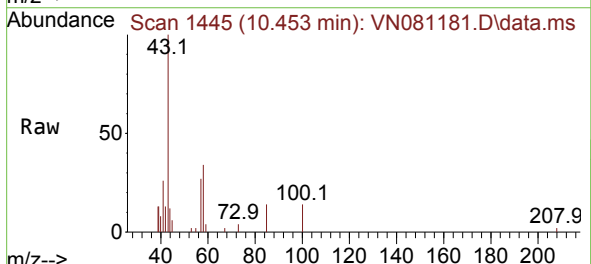
Instrument :
MSVOA_N
ClientSampleId :
SB-11

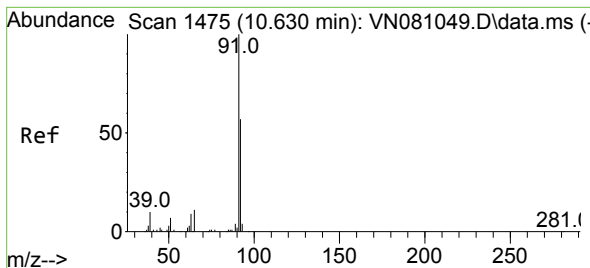
Tgt Ion: 98 Resp: 487510
Ion Ratio Lower Upper
98 100
100 66.0 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 4.440 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 43 Resp: 21313
Ion Ratio Lower Upper
43 100
58 26.1 29.4 44.0#





#52

Toluene

Concen: 0.368 ug/l

RT: 10.641 min Scan# 1475

Delta R.T. 0.012 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

Instrument :

MSVOA_N

ClientSampleId :

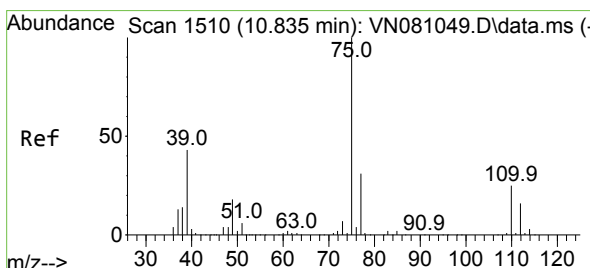
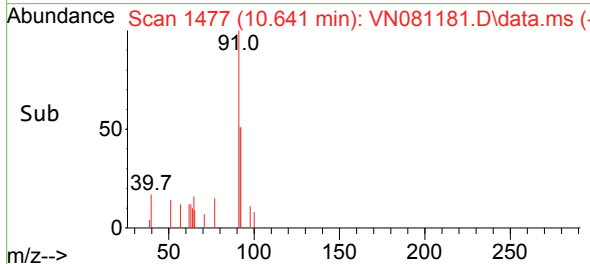
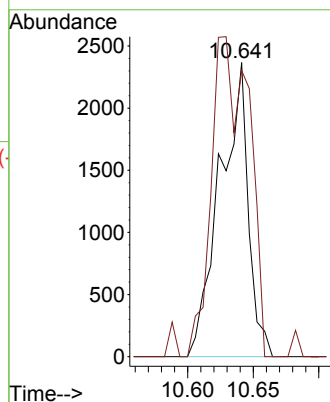
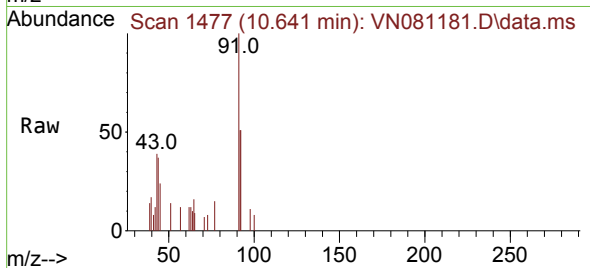
SB-11

Tgt Ion: 92 Resp: 3562

Ion Ratio Lower Upper

92 100

91 145.1 139.4 209.0



#53

t-1,3-Dichloropropene

Concen: 0.214 ug/l

RT: 10.735 min Scan# 1493

Delta R.T. -0.100 min

Lab File: VN081181.D

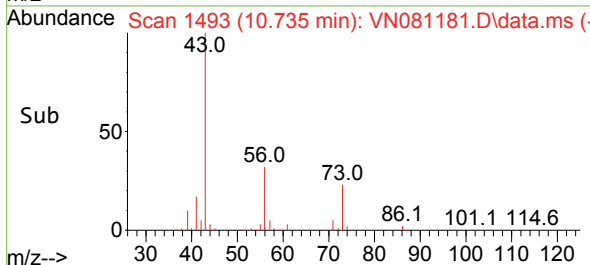
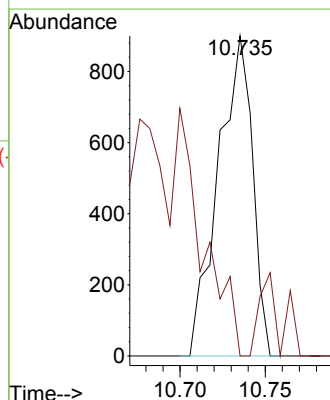
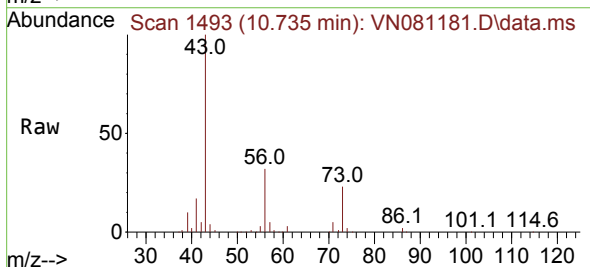
Acq: 24 Feb 2024 00:09

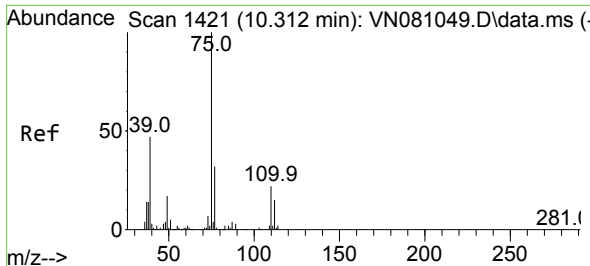
Tgt Ion: 75 Resp: 1256

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

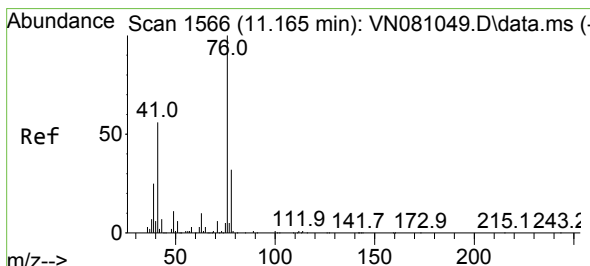
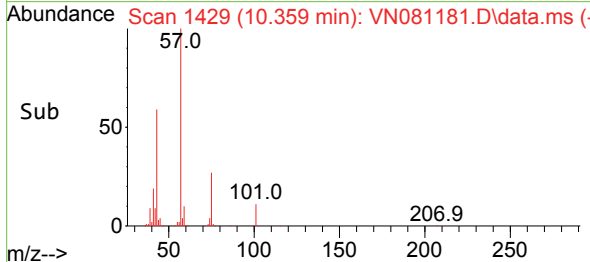
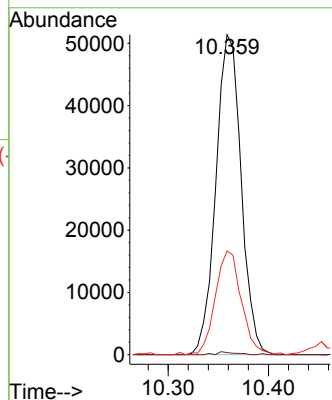
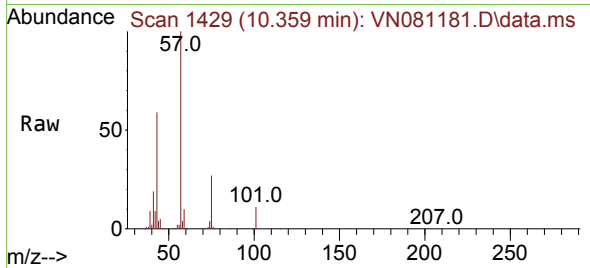




#54
 cis-1,3-Dichloropropene
 Concen: 14.144 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN081181.D
 Acq: 24 Feb 2024 00:09

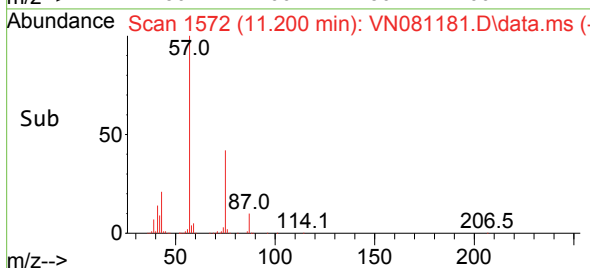
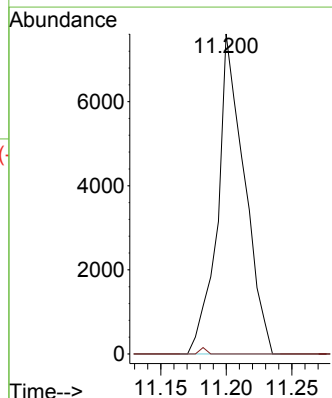
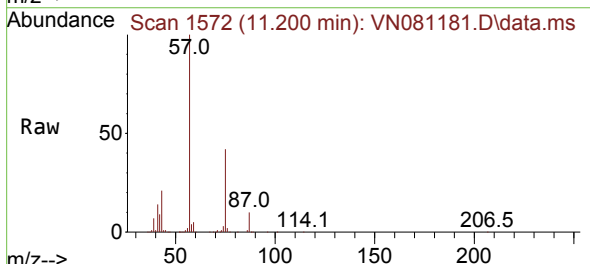
Instrument :
 MSVOA_N
 ClientSampleId :
 SB-11

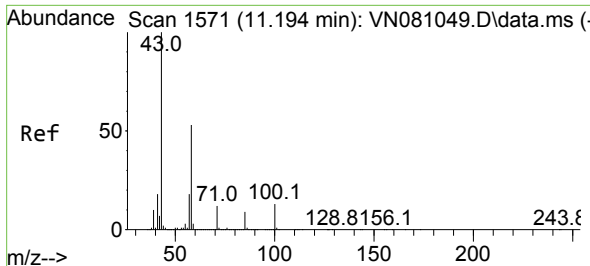
Tgt Ion: 75 Resp: 89701
 Ion Ratio Lower Upper
 75 100
 77 0.7 23.3 34.9#
 39 31.8 44.6 66.8#



#57
 1,3-Dichloropropane
 Concen: 1.679 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.035 min
 Lab File: VN081181.D
 Acq: 24 Feb 2024 00:09

Tgt Ion: 76 Resp: 10818
 Ion Ratio Lower Upper
 76 100
 78 0.5 25.5 38.3#

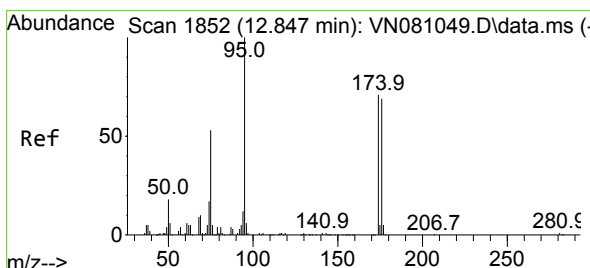
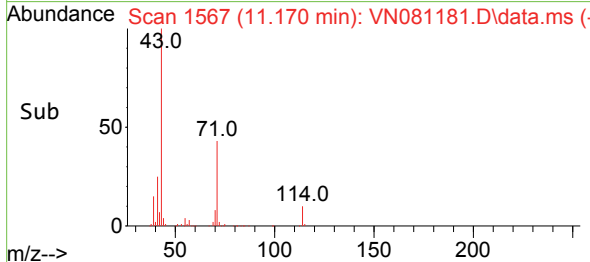
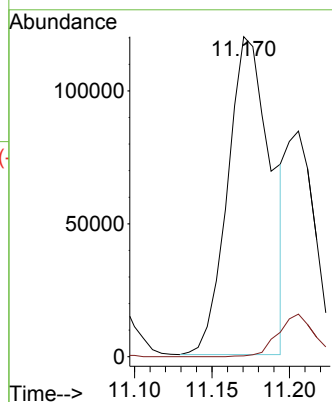
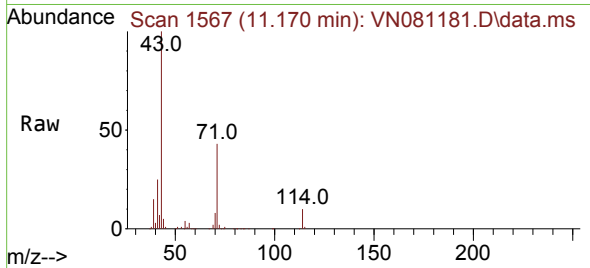




#59
2-Hexanone
Concen: 60.866 ug/l
RT: 11.170 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

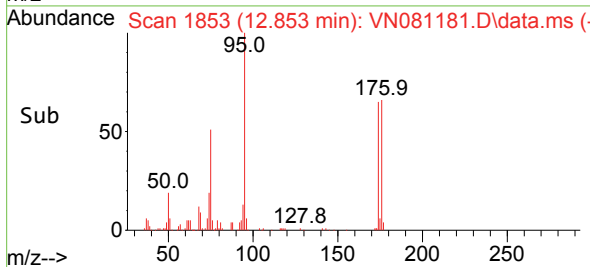
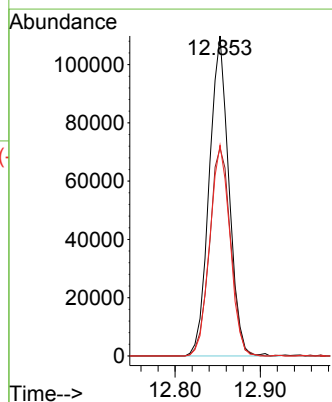
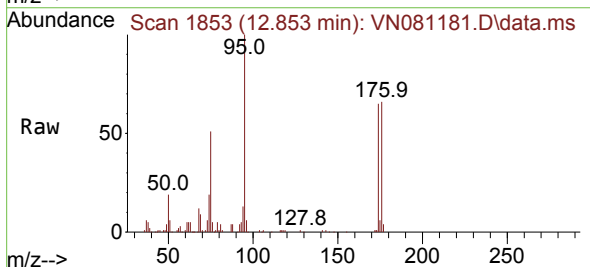
Instrument :
MSVOA_N
ClientSampleId :
SB-11

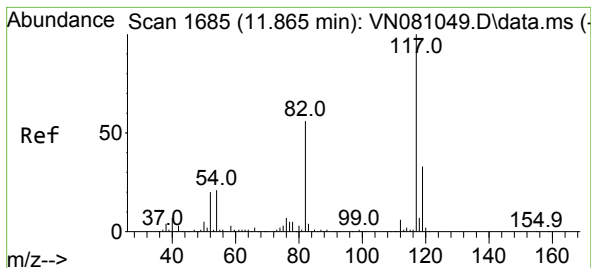
Tgt Ion: 43 Resp: 231631
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 42.683 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion: 95 Resp: 175774
Ion Ratio Lower Upper
95 100
174 70.1 0.0 120.4
176 67.6 0.0 121.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

Instrument :

MSVOA_N

ClientSampleId :

SB-11

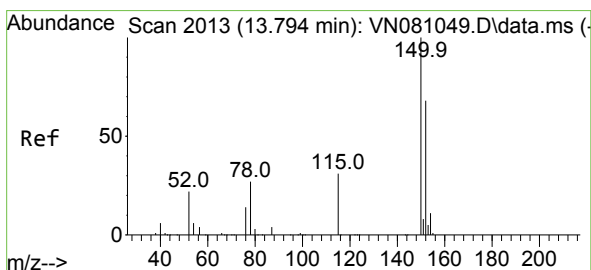
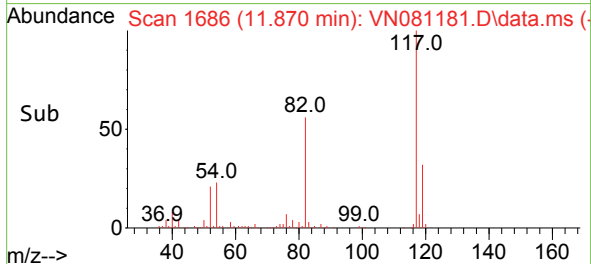
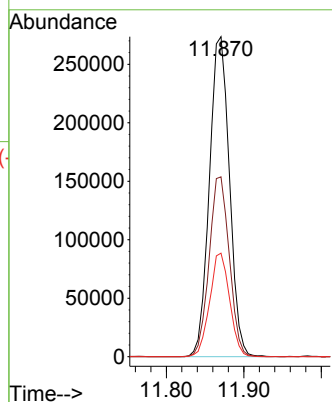
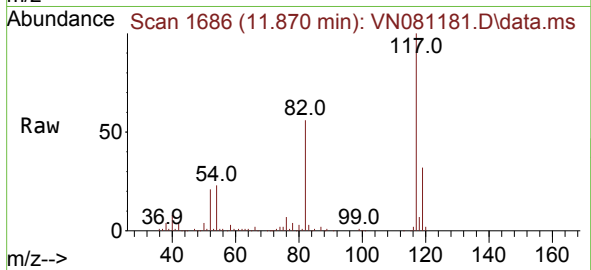
Tgt Ion:117 Resp: 492383

Ion Ratio Lower Upper

117 100

82 56.2 52.7 79.1

119 32.3 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

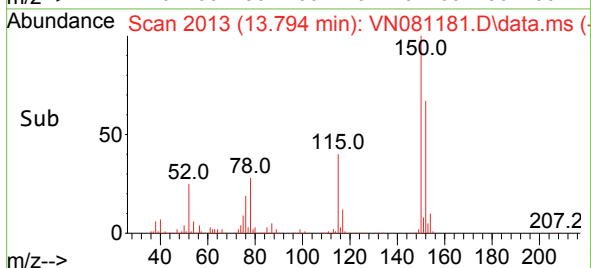
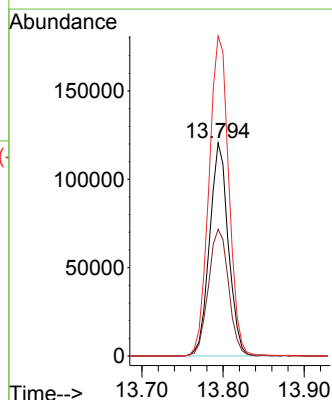
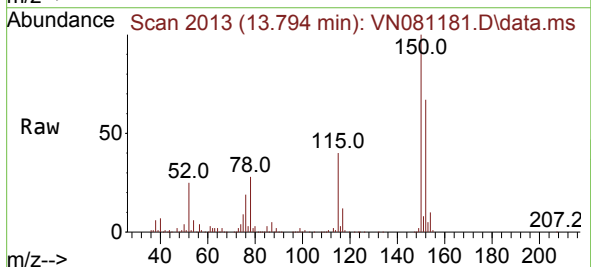
Tgt Ion:152 Resp: 193634

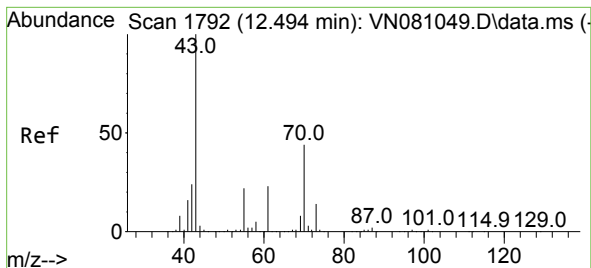
Ion Ratio Lower Upper

152 100

115 63.9 32.3 96.8

150 158.4 0.0 339.8





#74

N-amy1 acetate

Concen: 0.272 ug/l

RT: 12.470 min Scan# 1

Delta R.T. -0.024 min

Lab File: VN081181.D

Acq: 24 Feb 2024 00:09

Instrument :

MSVOA_N

ClientSampleId :

SB-11

Tgt Ion: 43 Resp: 1950

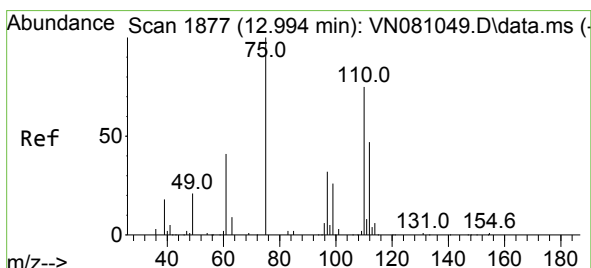
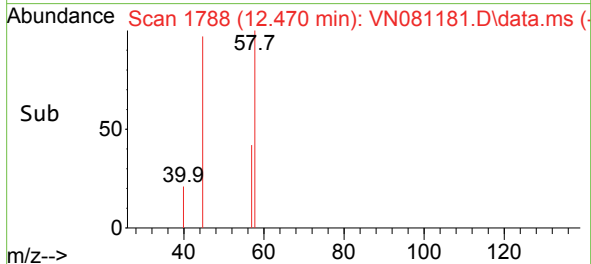
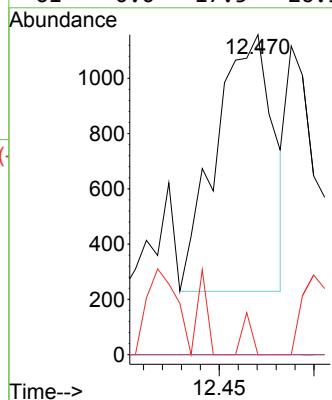
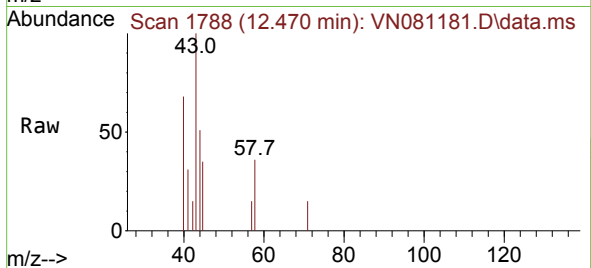
Ion Ratio Lower Upper

43 100

70 0.0 30.1 45.1#

55 0.0 17.0 25.4#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 21.499 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081181.D

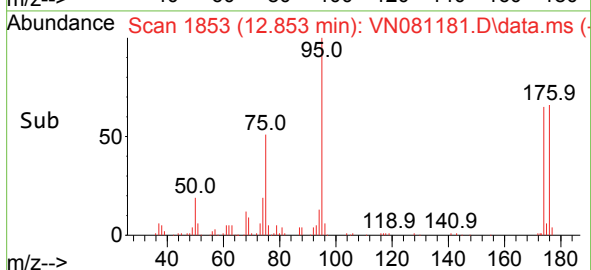
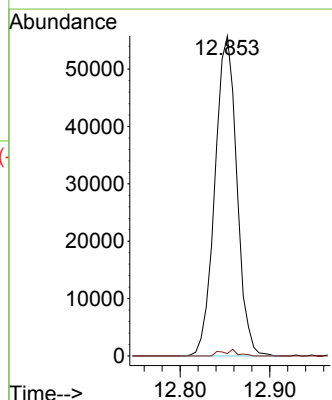
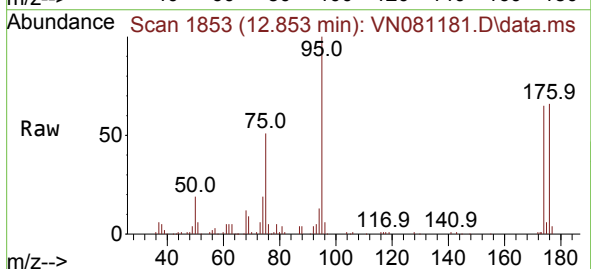
Acq: 24 Feb 2024 00:09

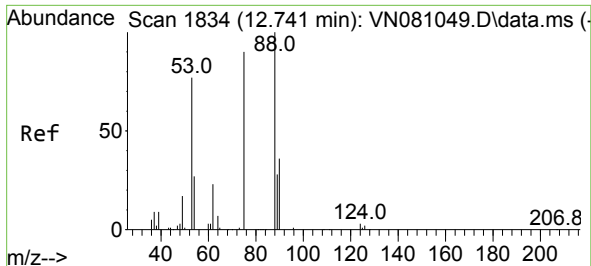
Tgt Ion: 75 Resp: 94585

Ion Ratio Lower Upper

75 100

77 0.7 91.0 272.8#

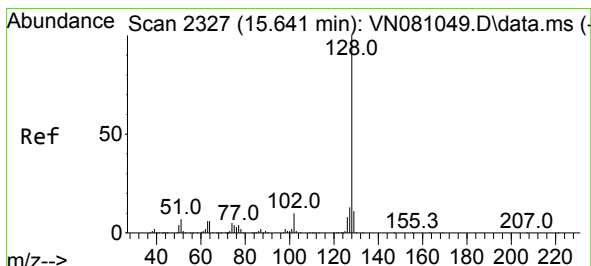
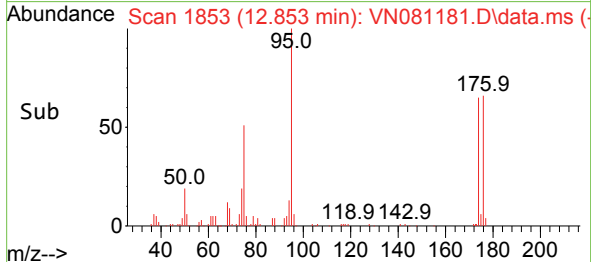
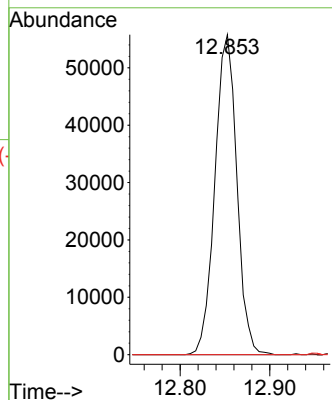
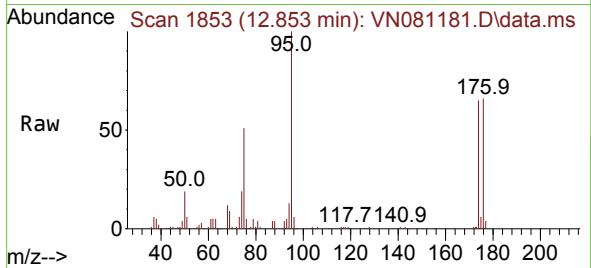




#81
trans-1,4-Dichloro-2-butene
Concen: 55.337 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Instrument :
MSVOA_N
ClientSampleId :
SB-11

Tgt Ion: 75 Resp: 94585
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#



#95
Naphthalene
Concen: 1.276 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN081181.D
Acq: 24 Feb 2024 00:09

Tgt Ion:128 Resp: 17958
Ion Ratio Lower Upper
128 100
127 16.2 10.0 15.0#
129 11.2 8.7 13.1

