

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120523\
 Data File : VN080363.D
 Acq On : 05 Dec 2023 13:59
 Operator : JC\MD
 Sample : 05622-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 00:51:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

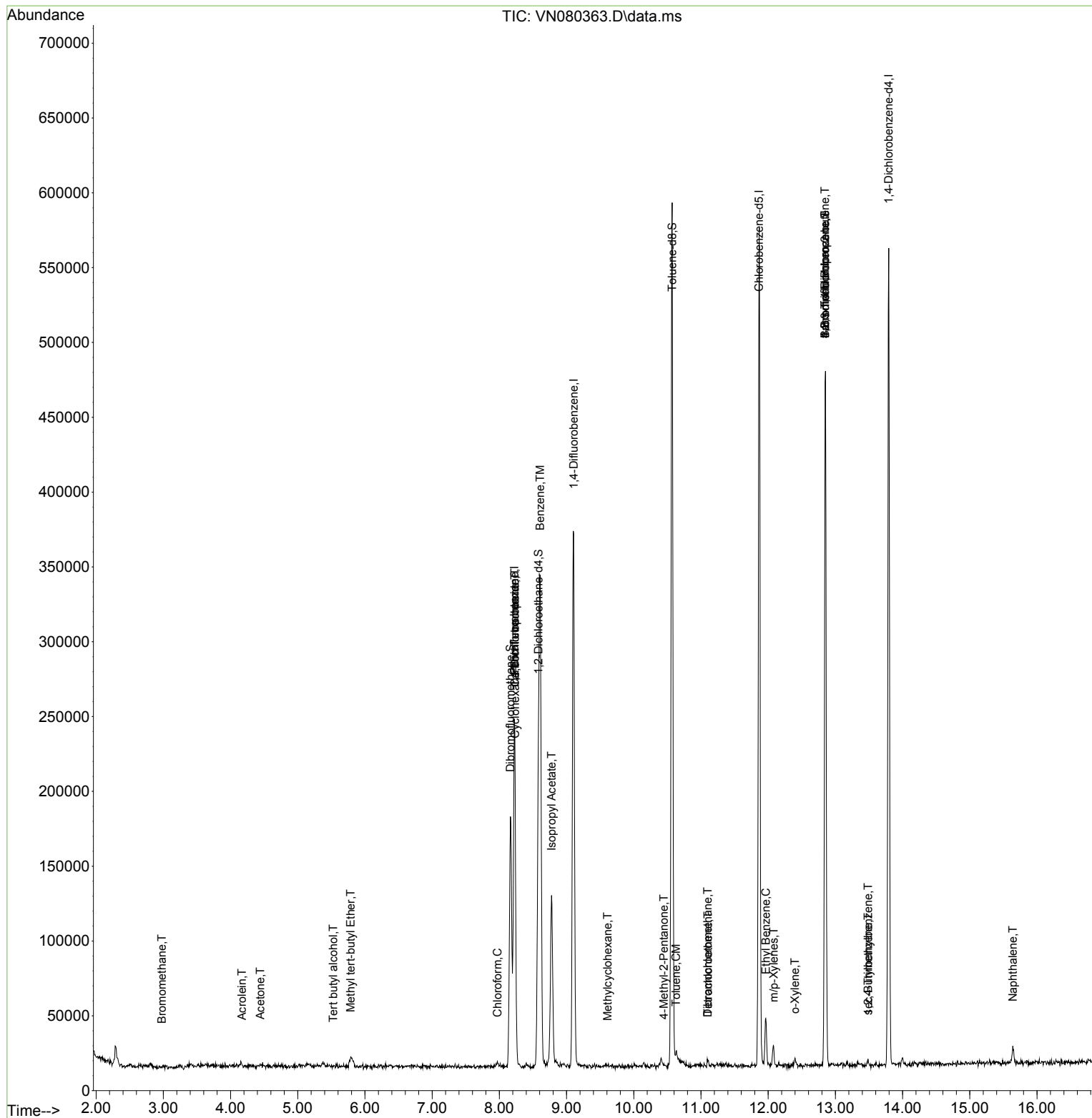
Internal Standards						
1) Pentafluorobenzene	8.224	168	161488	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	308456	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	319225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	144276	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	146048	54.773	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.540%			
35) Dibromofluoromethane	8.165	113	118368	52.007	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.020%			
50) Toluene-d8	10.571	98	404484	49.300	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.600%			
62) 4-Bromofluorobenzene	12.847	95	161365	52.070	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.140%			
Target Compounds					Qvalue	
5) Bromomethane	2.977	94	277	0.213	ug/l #	4
6) Chloroethane	3.124	64	168	Below Cal	#	43
11) Tert butyl alcohol	5.530	59	87	0.297	ug/l #	72
13) Acrolein	4.171	56	62	0.239	ug/l #	1
16) Acetone	4.442	43	1304	1.456	ug/l #	40
19) Methyl tert-butyl Ether	5.789	73	10733	1.781	ug/l	100
30) Chloroform	7.971	83	3394	0.878	ug/l #	82
31) Cyclohexane	8.235	56	4018	1.386	ug/l #	31
36) 1,1-Dichloropropene	8.230	75	13302	4.037	ug/l #	52
38) Carbon Tetrachloride	8.230	117	18212	4.355	ug/l #	16
39) Methylcyclohexane	9.612	83	769	0.242	ug/l #	87
40) Benzene	8.606	78	310781	33.184	ug/l	97
43) Isopropyl Acetate	8.777	43	33171	7.458	ug/l #	16
51) 4-Methyl-2-Pentanone	10.447	43	733	0.318	ug/l #	53
52) Toluene	10.629	92	4244	0.724	ug/l	94
60) Dibromochloromethane	11.100	129	925	0.345	ug/l #	11
64) Tetrachloroethene	11.106	164	778	0.319	ug/l #	62
67) Ethyl Benzene	11.965	91	23095	1.794	ug/l	97
68) m/p-Xylenes	12.082	106	4155	0.885	ug/l	85
69) o-Xylene	12.400	106	1227	0.277	ug/l	55
71) Bromoform	12.847	173	975	0.468	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	90914	25.718	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90914	86.891	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.488	105	2328	0.242	ug/l	99
85) sec-Butylbenzene	13.488	105	2328	0.235	ug/l #	57
95) Naphthalene	15.641	128	11039	1.343	ug/l	95

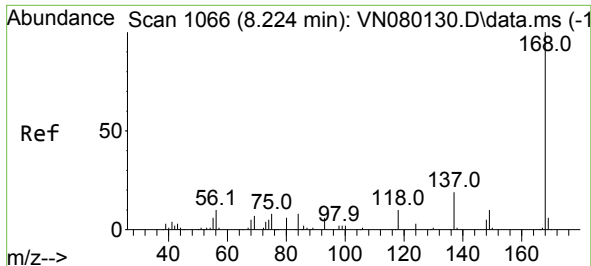
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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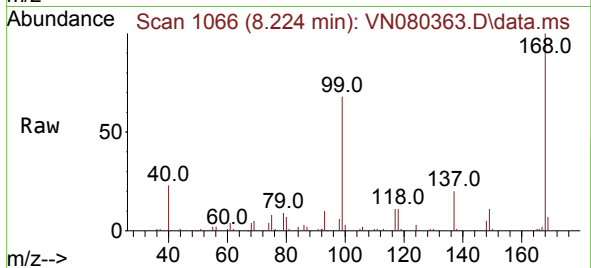
Quant Time: Dec 06 00:51:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 17 01:19:32 2023
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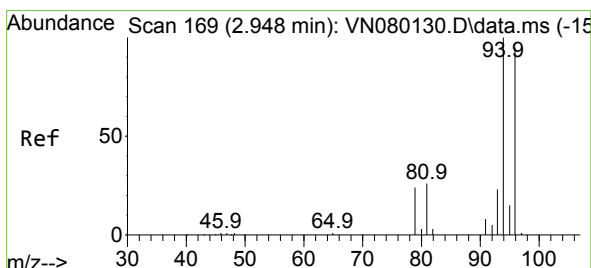
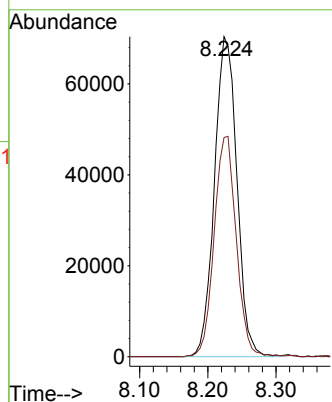
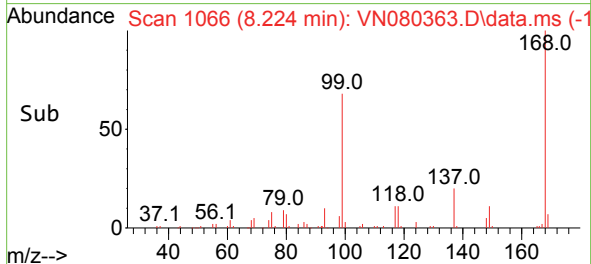


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Instrument :
MSVOA_N
ClientSampleId :

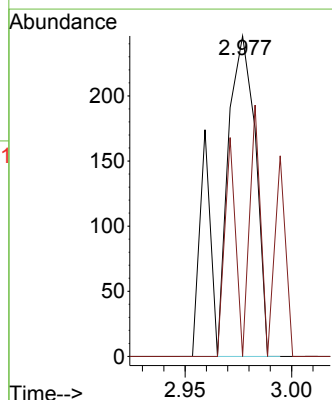
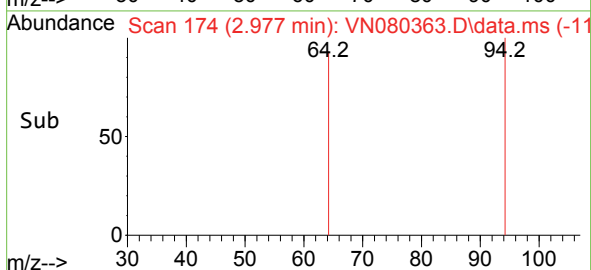
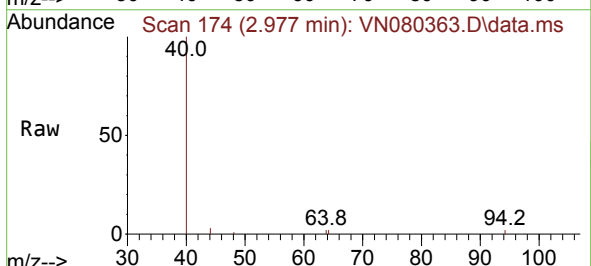


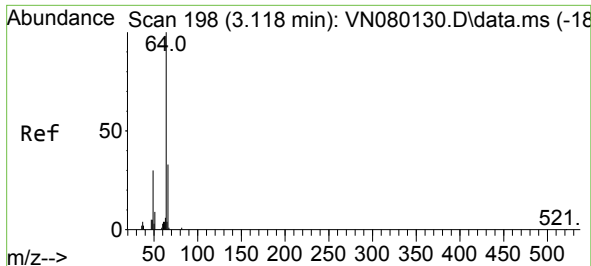
Tgt Ion:168 Resp: 161488
Ion Ratio Lower Upper
168 100
99 68.5 53.0 79.6



#5
Bromomethane
Concen: 0.213 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.029 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion: 94 Resp: 277
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#

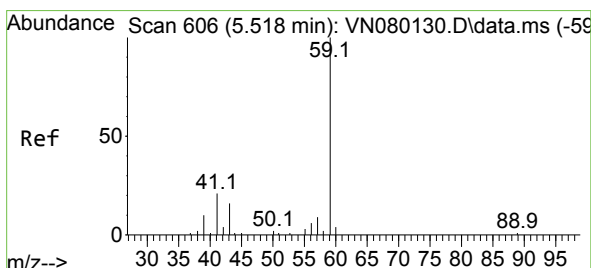
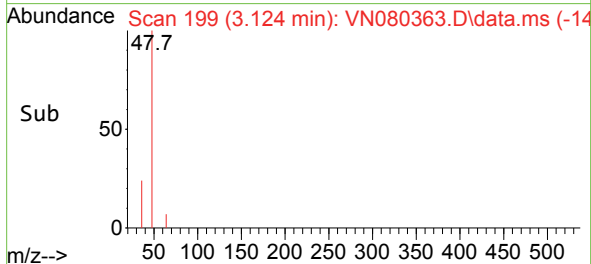
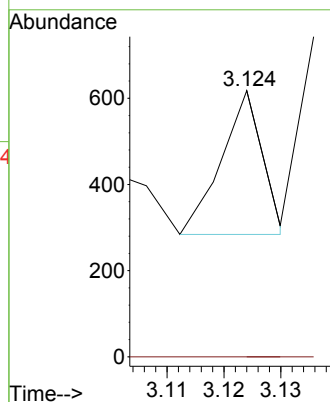
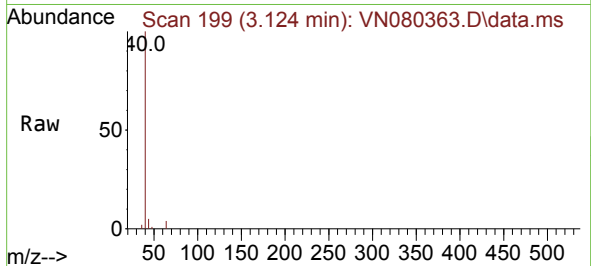




#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 19
Delta R.T. 0.006 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

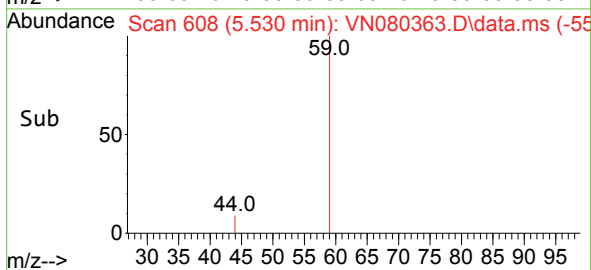
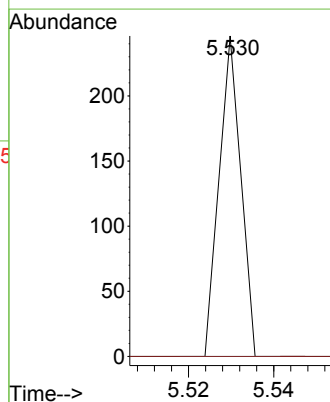
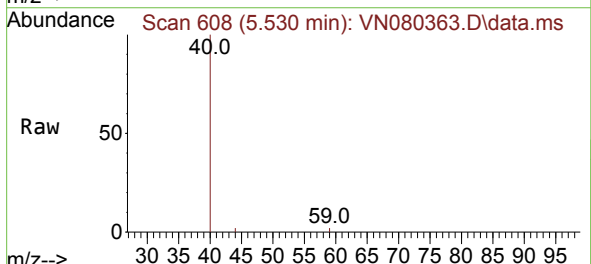
Instrument :
MSVOA_N
ClientSampleId :

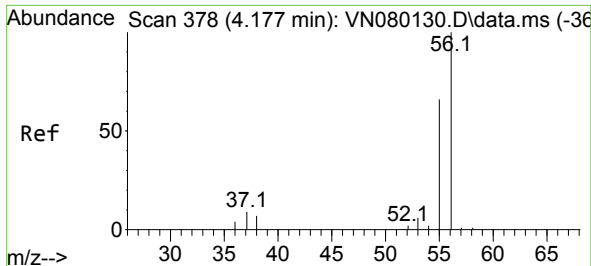
Tgt Ion: 64 Resp: 168
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.297 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.012 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion: 59 Resp: 87
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.239 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN080363.D

Acq: 05 Dec 2023 13:59

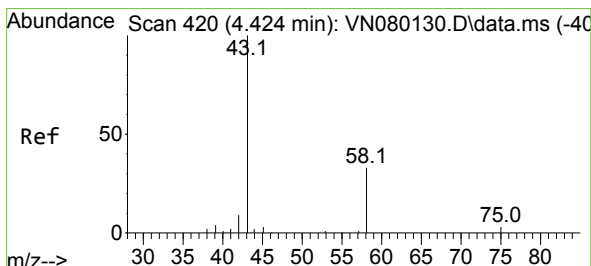
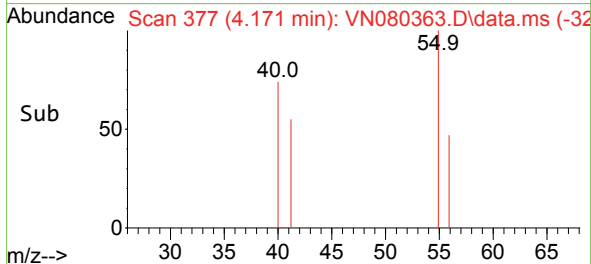
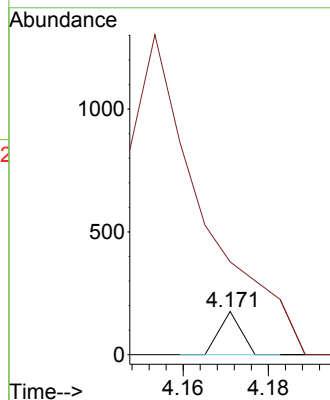
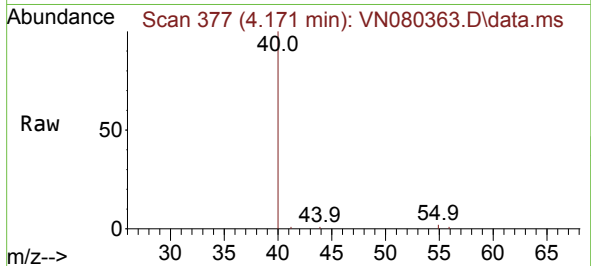
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 56 Resp: 62

Ion	Ratio	Lower	Upper
56	100		
55	2941.9	54.5	81.7#



#16

Acetone

Concen: 1.456 ug/l

RT: 4.442 min Scan# 423

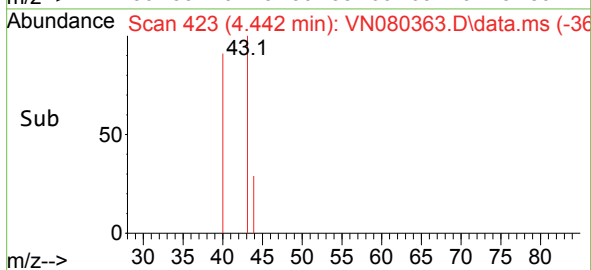
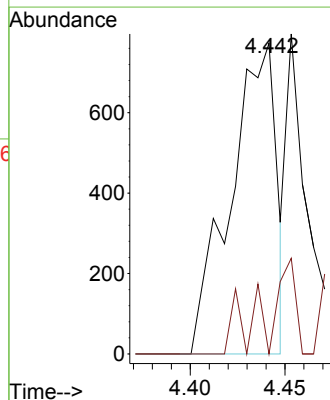
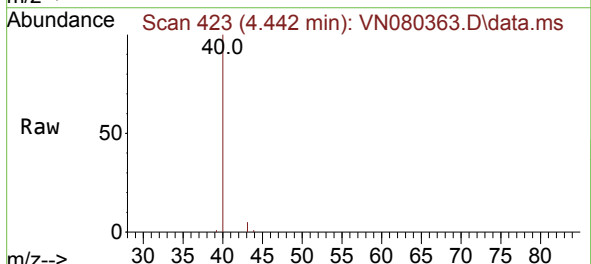
Delta R.T. 0.018 min

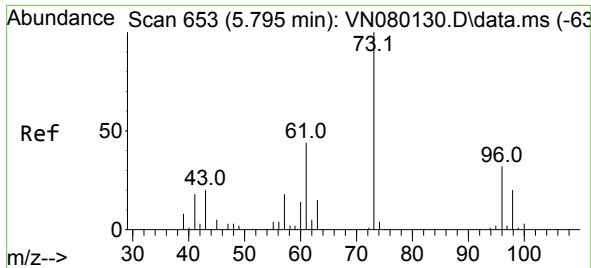
Lab File: VN080363.D

Acq: 05 Dec 2023 13:59

Tgt Ion: 43 Resp: 1304

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.0	42.0#

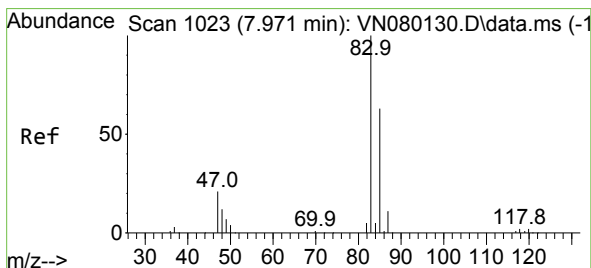
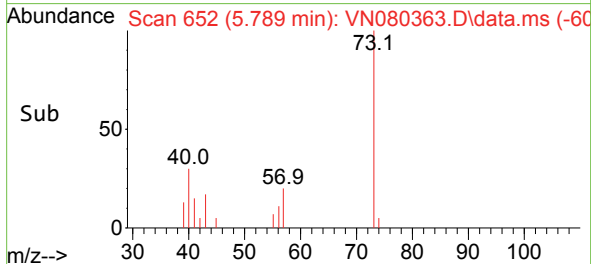
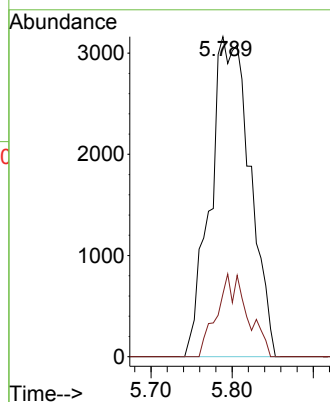
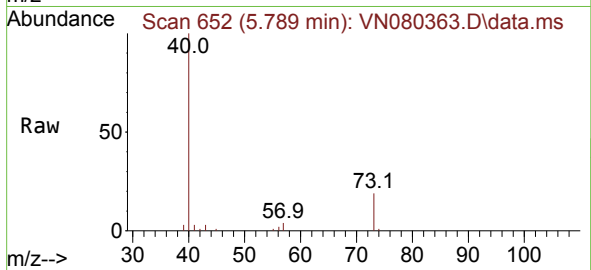




#19
Methyl tert-butyl Ether
Concen: 1.781 ug/l
RT: 5.789 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

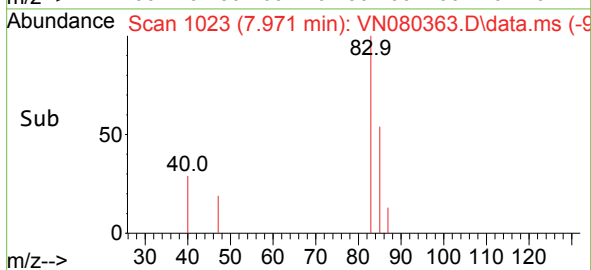
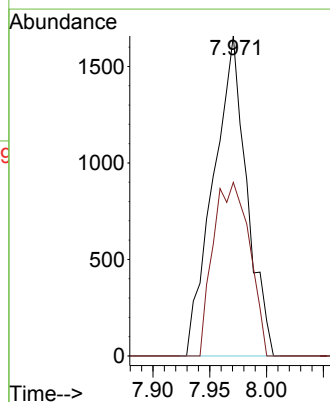
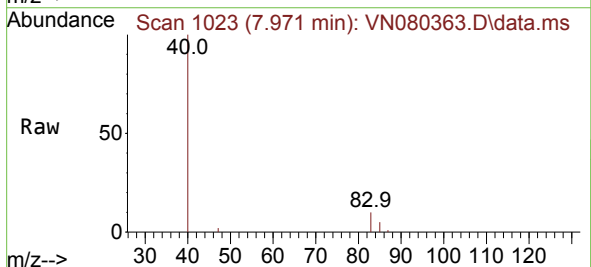
Instrument :
MSVOA_N
ClientSampleId :

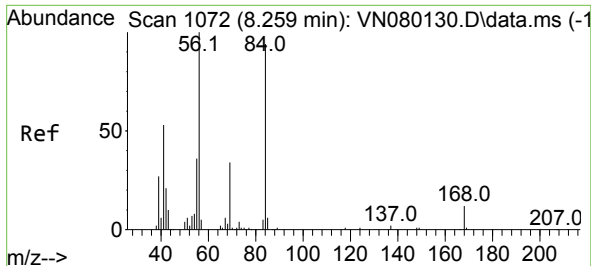
Tgt Ion: 73 Resp: 10733
Ion Ratio Lower Upper
73 100
57 19.6 15.6 23.4



#30
Chloroform
Concen: 0.878 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

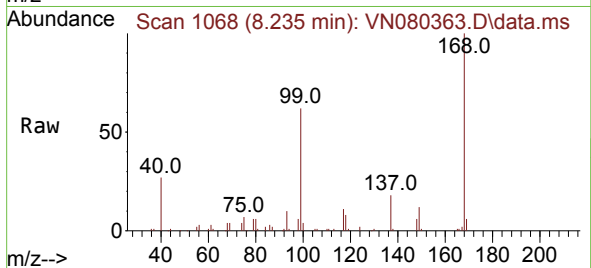
Tgt Ion: 83 Resp: 3394
Ion Ratio Lower Upper
83 100
85 54.2 55.4 83.0#



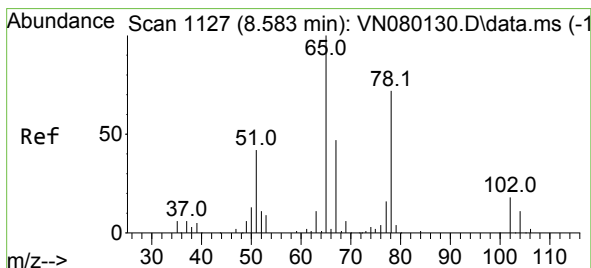
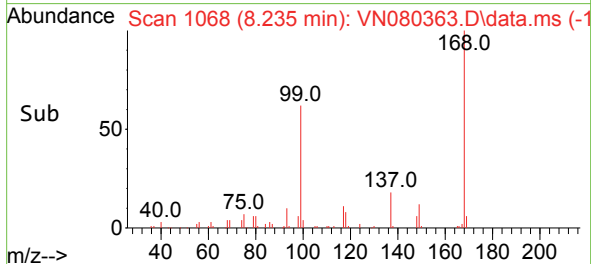
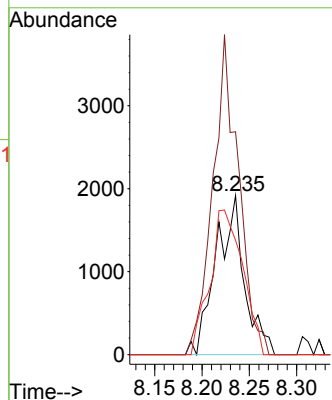


#31
Cyclohexane
Concen: 1.386 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.024 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Instrument :
MSVOA_N
ClientSampleId :

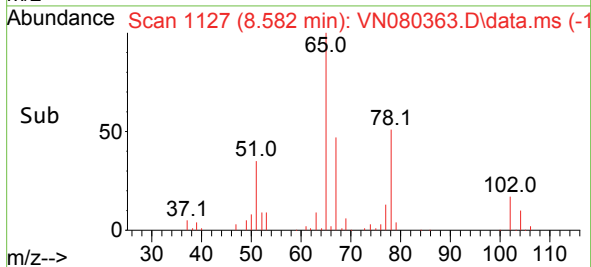
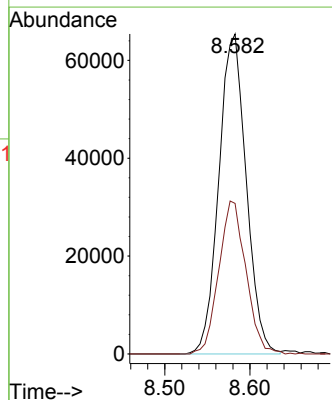
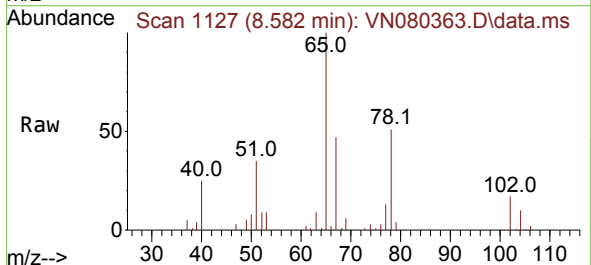


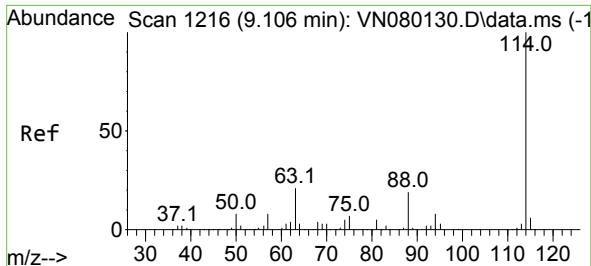
Tgt Ion: 56 Resp: 4018
Ion Ratio Lower Upper
56 100
69 140.0 26.8 40.2#
84 71.9 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.773 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion: 65 Resp: 146048
Ion Ratio Lower Upper
65 100
67 47.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN080363.D

Acq: 05 Dec 2023 13:59

Instrument :

MSVOA_N

ClientSampleId :

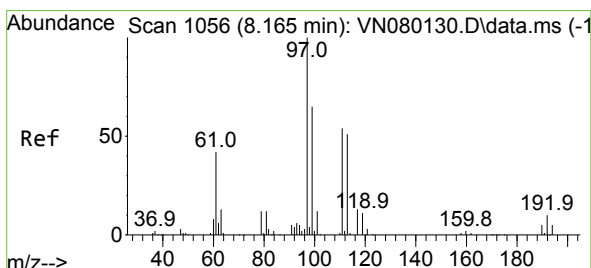
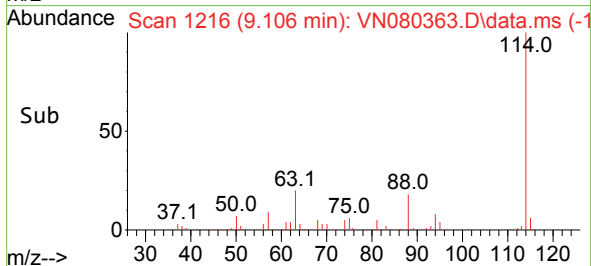
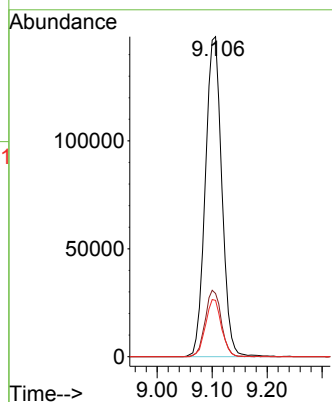
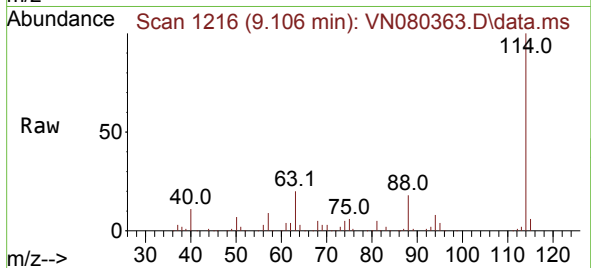
Tgt Ion:114 Resp: 308456

Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.4

88 17.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.007 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN080363.D

Acq: 05 Dec 2023 13:59

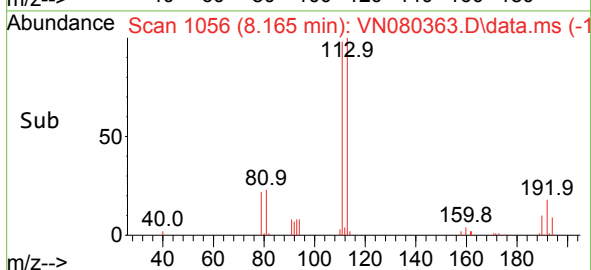
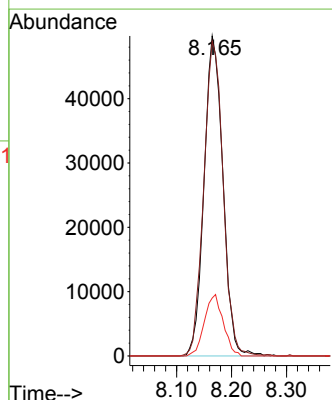
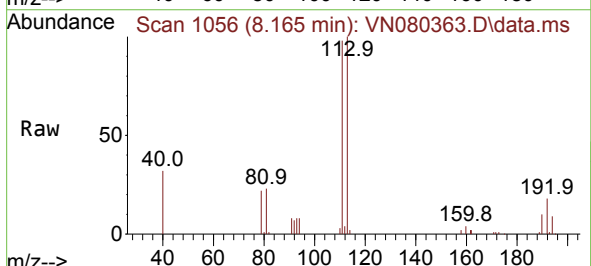
Tgt Ion:113 Resp: 118368

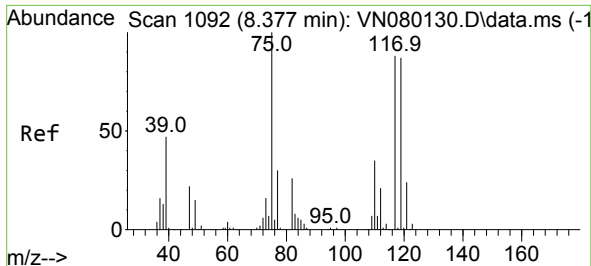
Ion Ratio Lower Upper

113 100

111 101.0 82.6 123.8

192 19.1 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.037 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

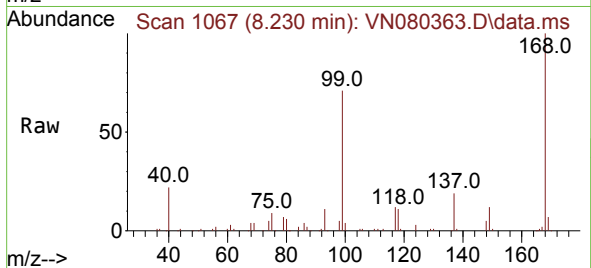
Lab File: VN080363.D

Acq: 05 Dec 2023 13:59

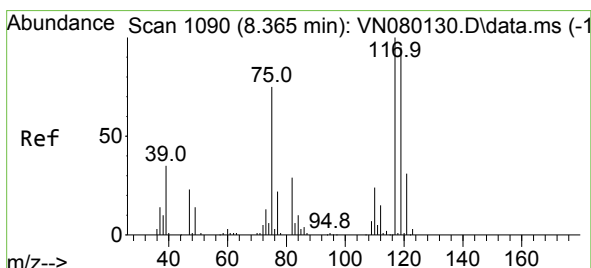
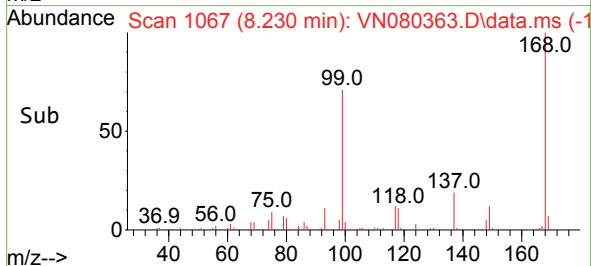
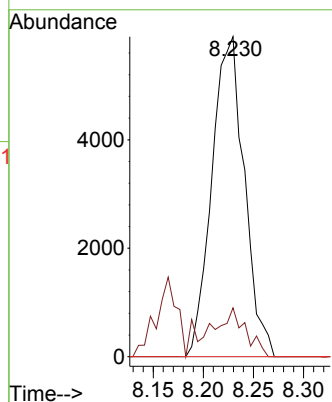
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 13302
Ion Ratio	Lower Upper
75	100
110	13.5 19.1 57.3#
77	0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 4.355 ug/l

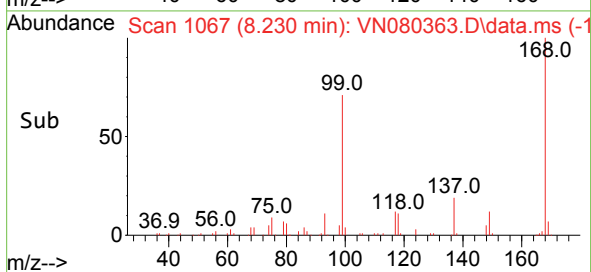
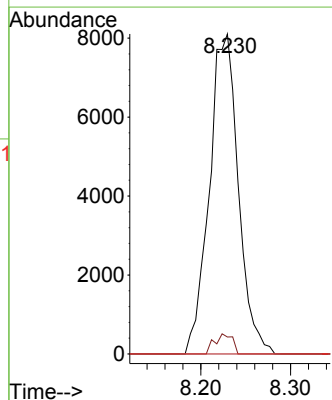
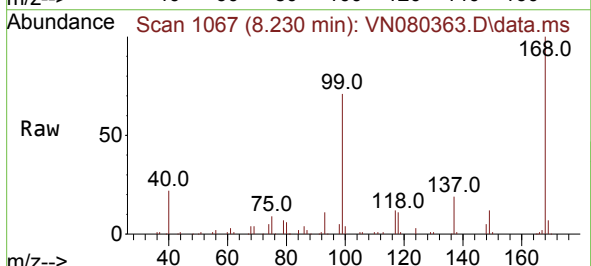
RT: 8.230 min Scan# 1067

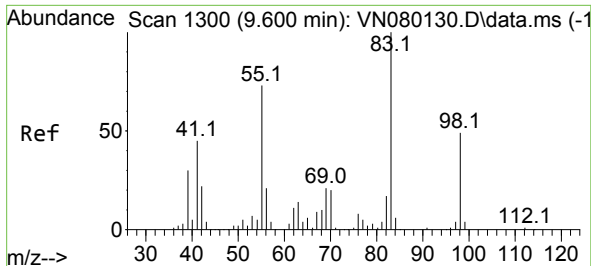
Delta R.T. -0.135 min

Lab File: VN080363.D

Acq: 05 Dec 2023 13:59

Tgt Ion: 117	Resp: 18212
Ion Ratio	Lower Upper
117	100
119	5.3 77.3 115.9#
121	0.0 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.242 ug/l

RT: 9.612 min Scan# 1130

Delta R.T. 0.012 min

Lab File: VN080363.D

Acq: 05 Dec 2023 13:59

Instrument :

MSVOA_N

ClientSampleId :

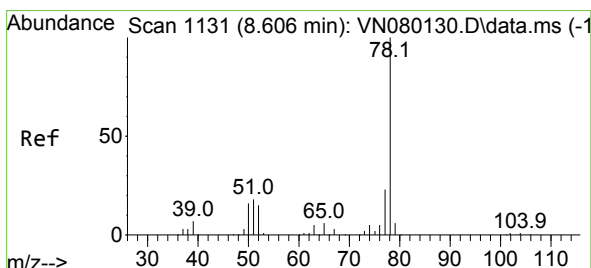
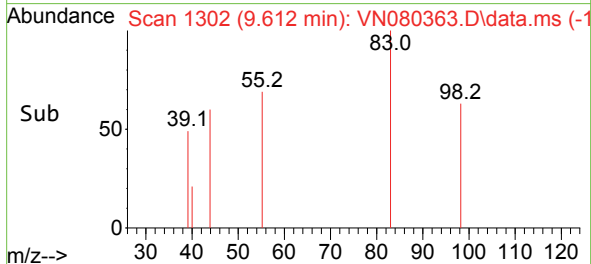
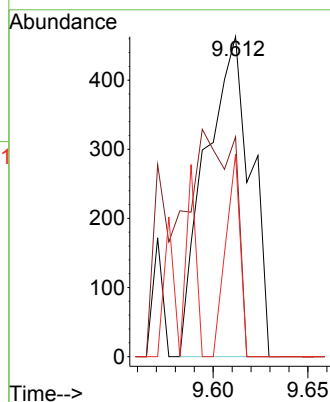
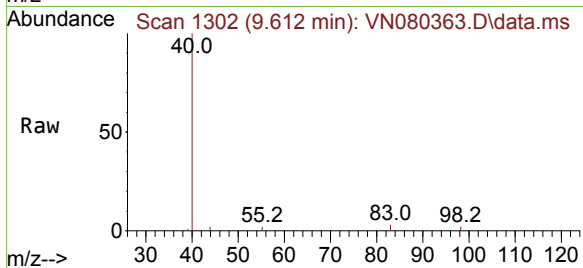
Tgt Ion: 83 Resp: 769

Ion Ratio Lower Upper

83 100

55 68.7 49.1 73.7

98 63.3 40.6 61.0#



#40

Benzene

Concen: 33.184 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN080363.D

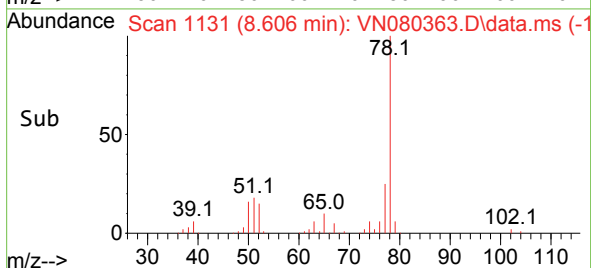
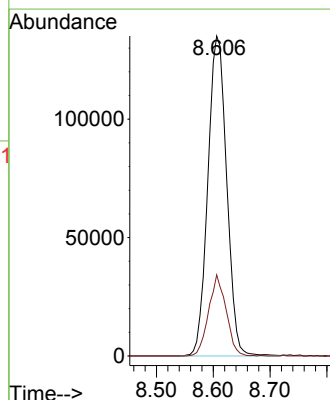
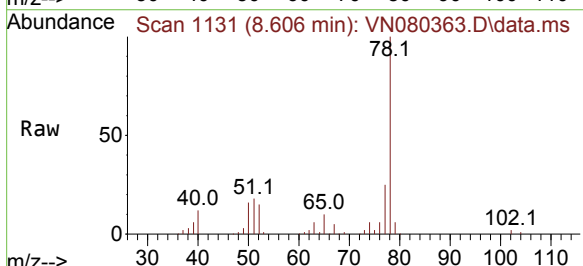
Acq: 05 Dec 2023 13:59

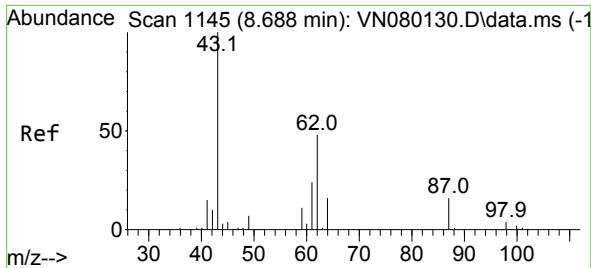
Tgt Ion: 78 Resp: 310781

Ion Ratio Lower Upper

78 100

77 25.3 19.0 28.6

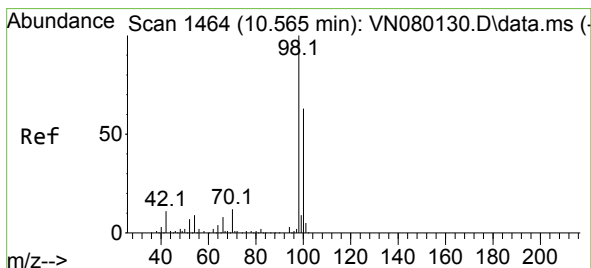
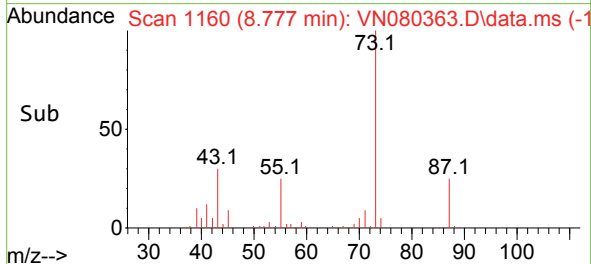
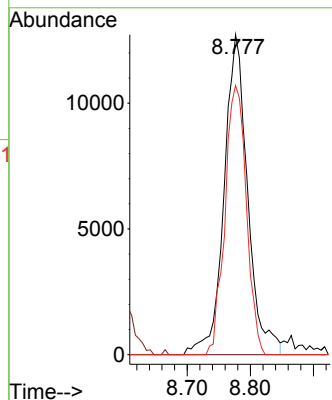
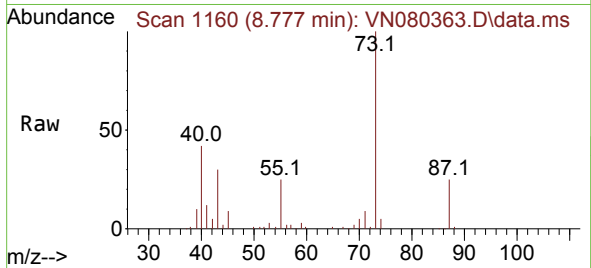




#43
Isopropyl Acetate
Concen: 7.458 ug/l
RT: 8.777 min Scan# 1145
Delta R.T. 0.088 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

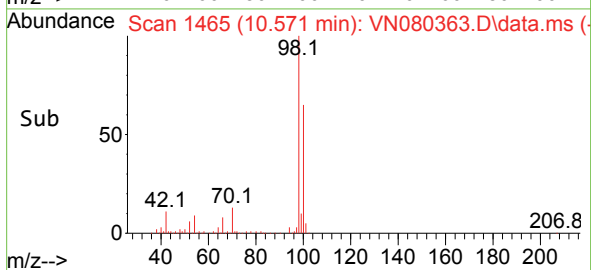
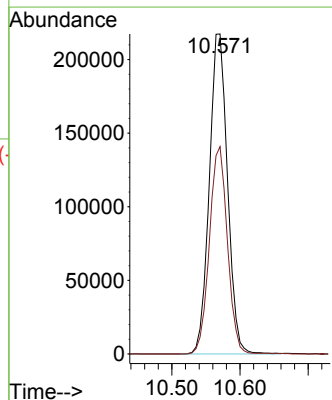
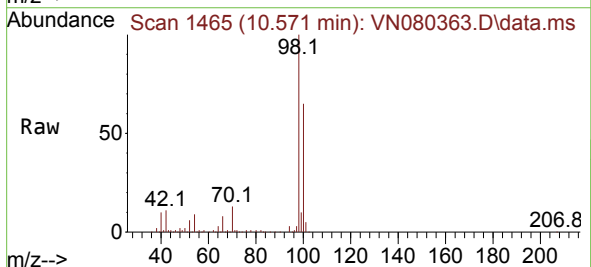
Instrument :
MSVOA_N
ClientSampleId :

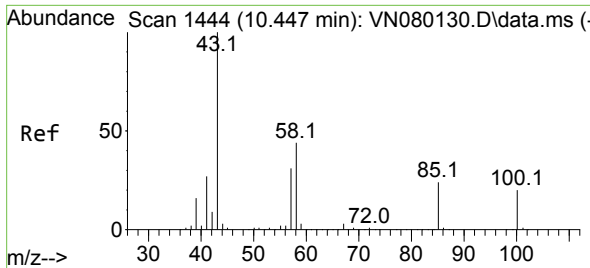
Tgt Ion: 43 Resp: 33171
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 75.9 14.6 21.8#



#50
Toluene-d8
Concen: 49.300 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion: 98 Resp: 404484
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0

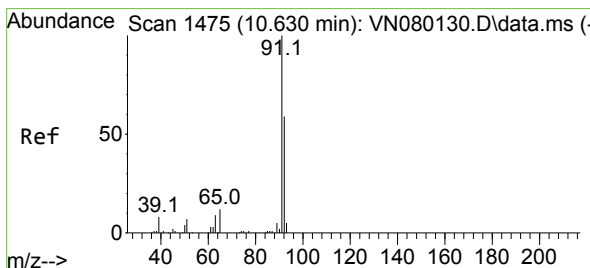
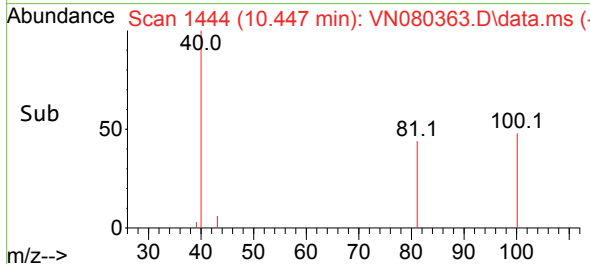
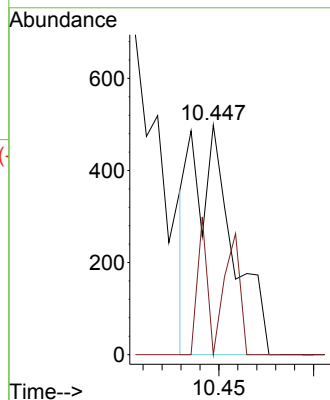
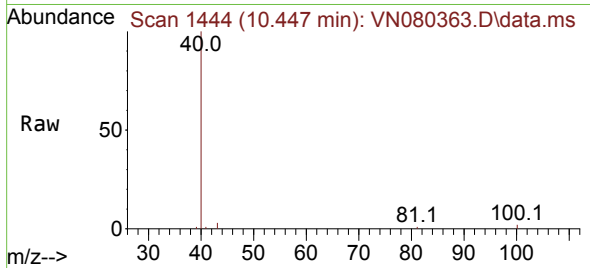




#51
4-Methyl-2-Pentanone
Concen: 0.318 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

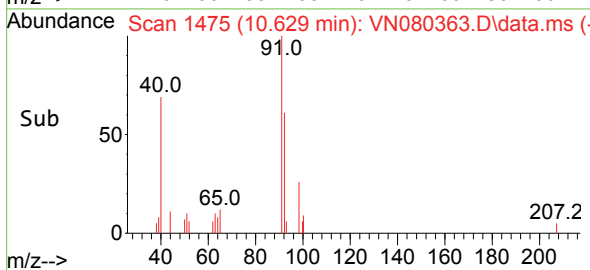
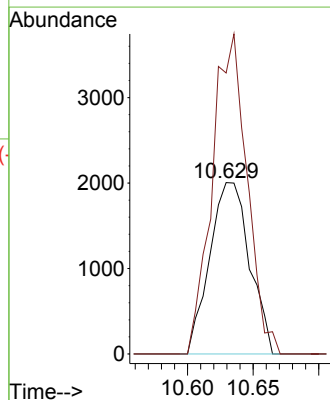
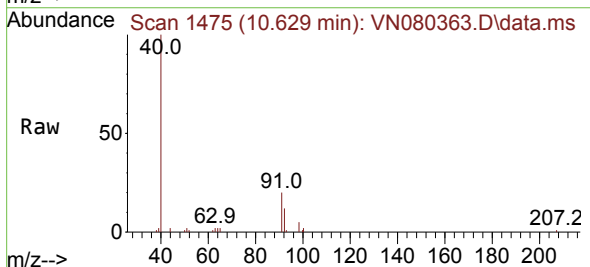
Instrument :
MSVOA_N
ClientSampleId :

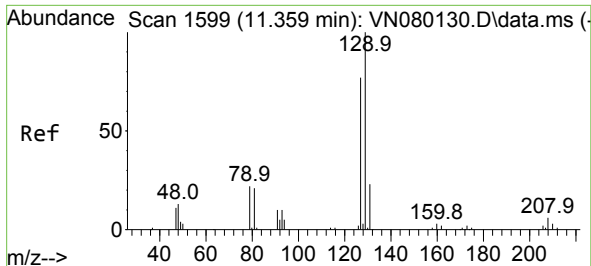
Tgt Ion: 43 Resp: 733
Ion Ratio Lower Upper
43 100
58 14.5 36.6 54.8#



#52
Toluene
Concen: 0.724 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion: 92 Resp: 4244
Ion Ratio Lower Upper
92 100
91 163.1 137.4 206.0

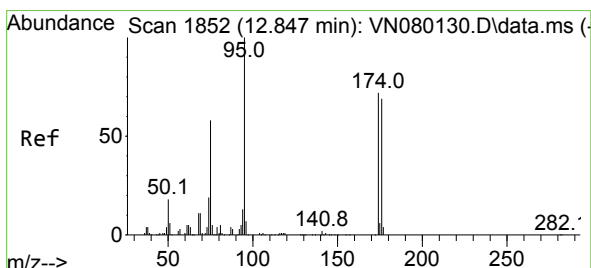
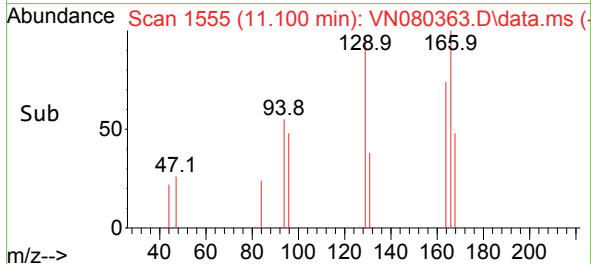
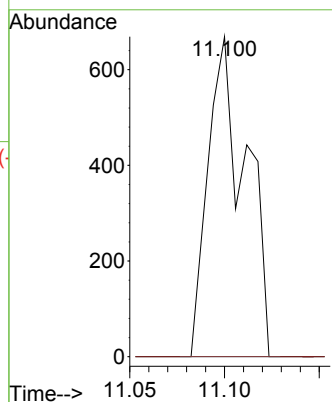
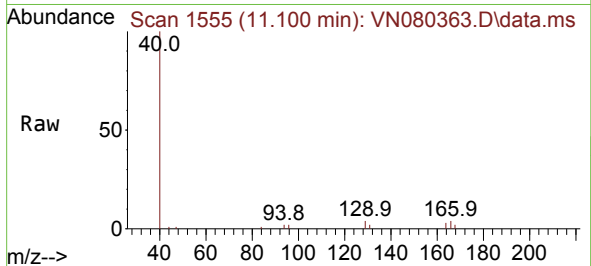




#60
Dibromochloromethane
Concen: 0.345 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

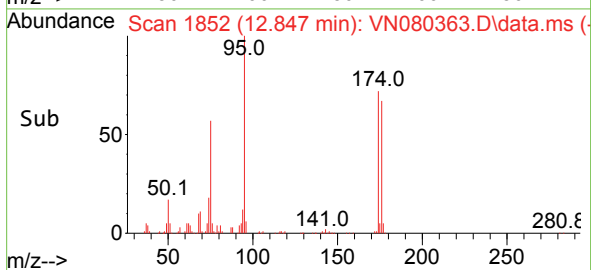
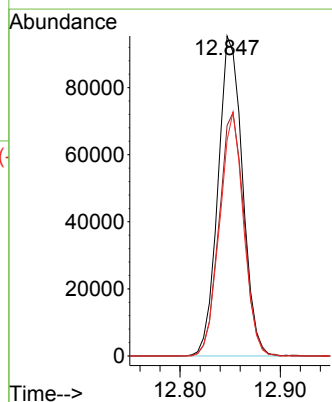
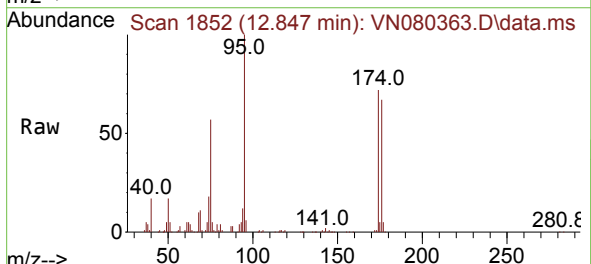
Instrument :
MSVOA_N
ClientSampleId :

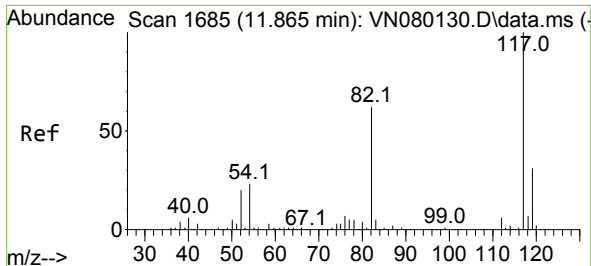
Tgt Ion:129 Resp: 925
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 52.070 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion: 95 Resp: 161365
Ion Ratio Lower Upper
95 100
174 77.8 0.0 143.8
176 74.4 0.0 135.8

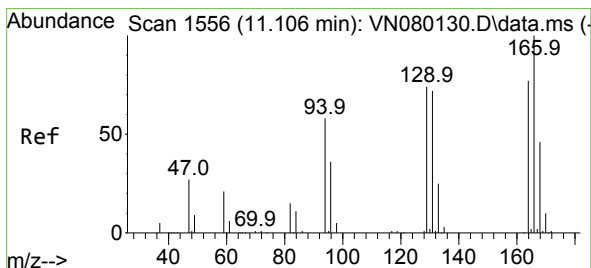
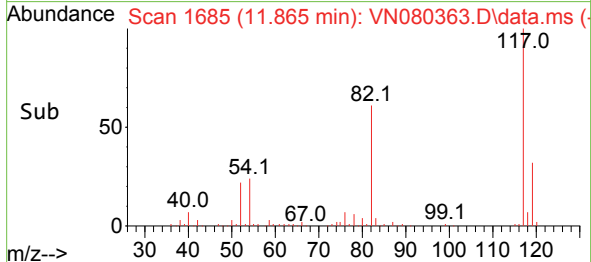
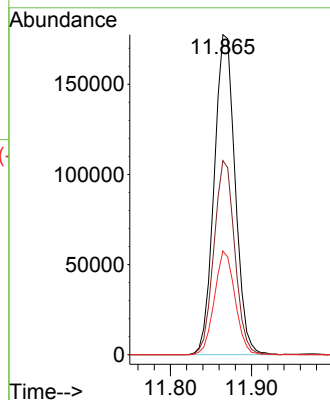
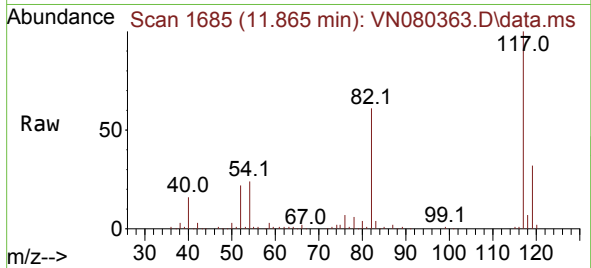




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

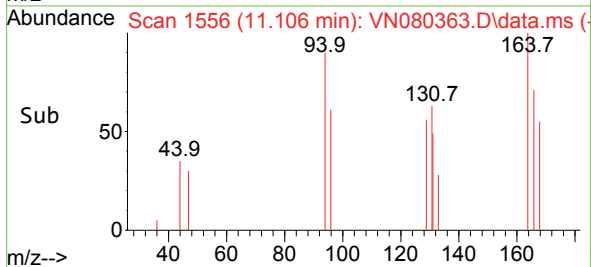
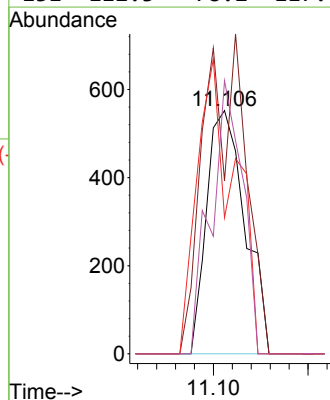
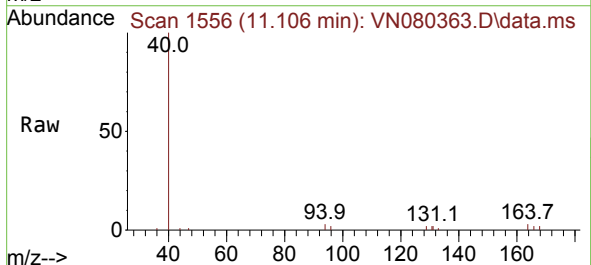
Instrument :
MSVOA_N
ClientSampleId :

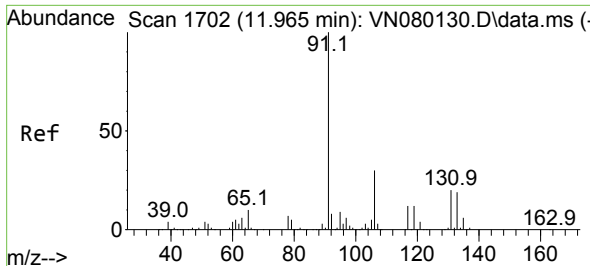
Tgt Ion:117 Resp: 319225
Ion Ratio Lower Upper
117 100
82 60.7 44.0 66.0
119 32.4 25.6 38.4



#64
Tetrachloroethene
Concen: 0.319 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion:164 Resp: 778
Ion Ratio Lower Upper
164 100
166 71.2 101.4 152.0#
129 56.0 82.4 123.6#
131 112.3 78.2 117.4

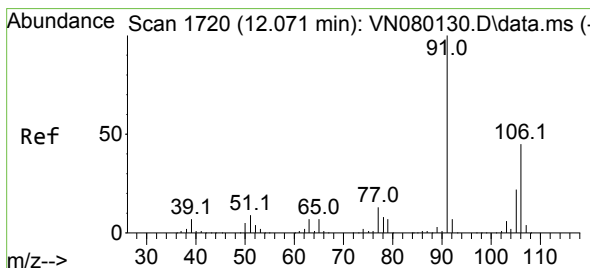
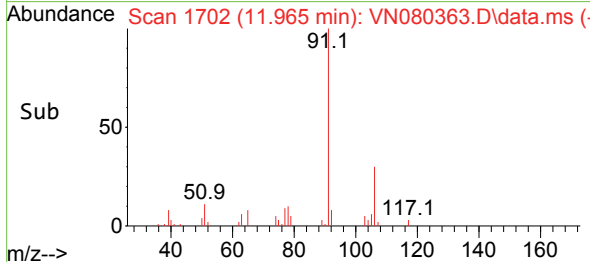
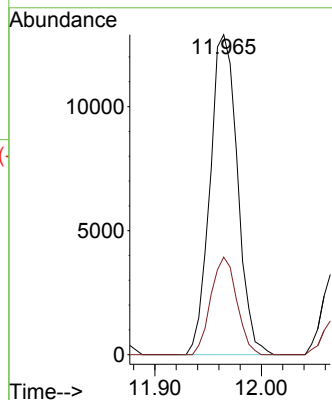
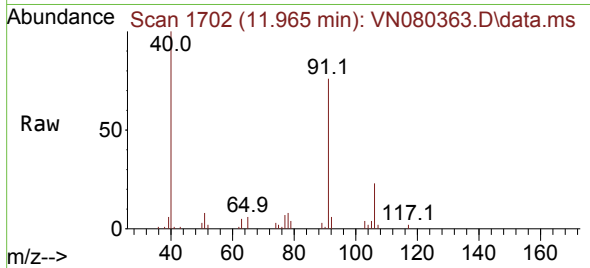




#67
Ethyl Benzene
Concen: 1.794 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

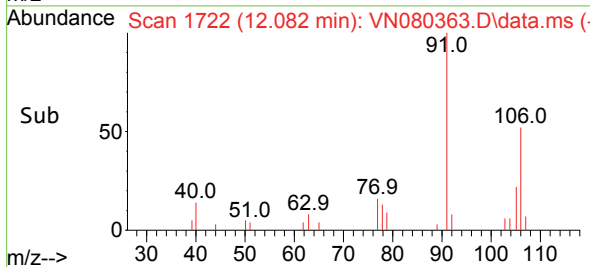
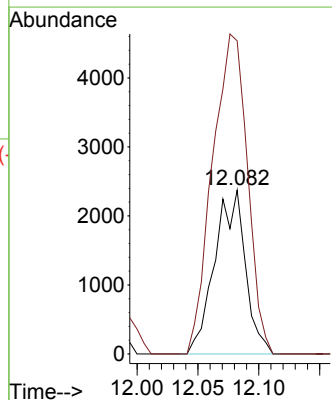
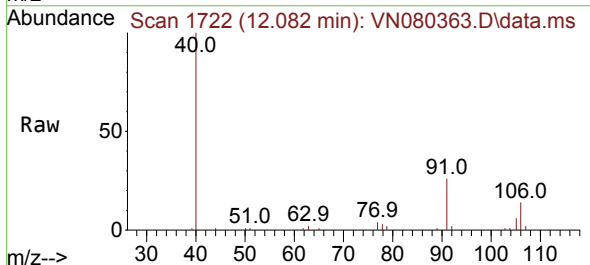
Instrument :
MSVOA_N
ClientSampleId :

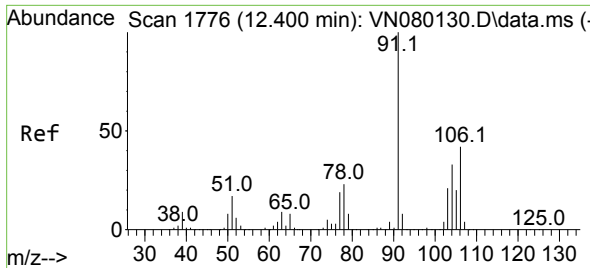
Tgt Ion: 91 Resp: 23095
Ion Ratio Lower Upper
91 100
106 30.5 25.6 38.4



#68
m/p-Xylenes
Concen: 0.885 ug/l
RT: 12.082 min Scan# 1722
Delta R.T. 0.012 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion:106 Resp: 4155
Ion Ratio Lower Upper
106 100
91 222.9 159.6 239.4

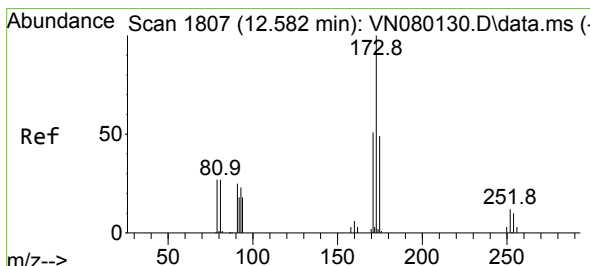
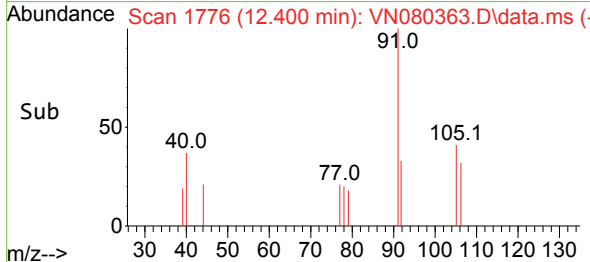
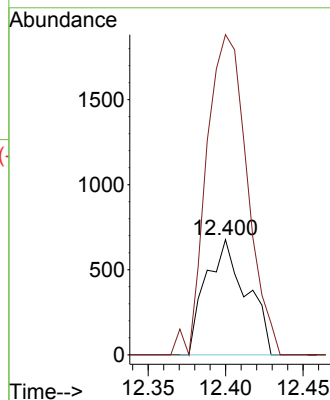
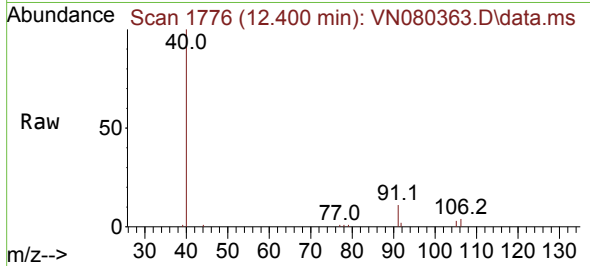




#69
o-Xylene
Concen: 0.277 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

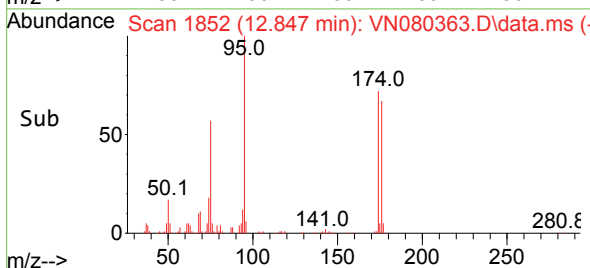
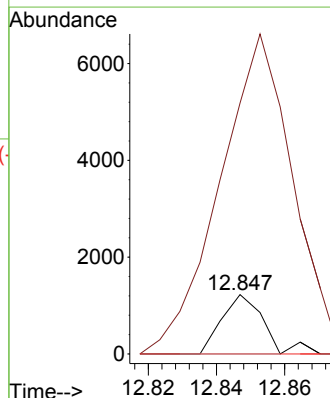
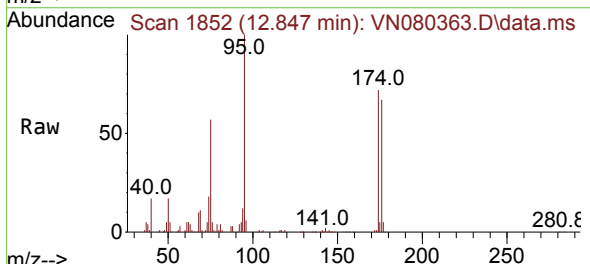
Instrument :
MSVOA_N
ClientSampleId :

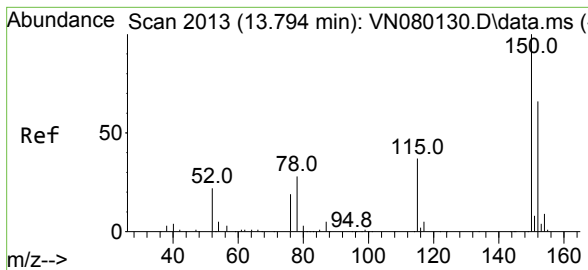
Tgt Ion:106 Resp: 1227
Ion Ratio Lower Upper
106 100
91 281.0 105.2 315.5



#71
Bromoform
Concen: 0.468 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion:173 Resp: 975
Ion Ratio Lower Upper
173 100
175 852.8 24.3 73.0#
254 0.0 0.0 0.0

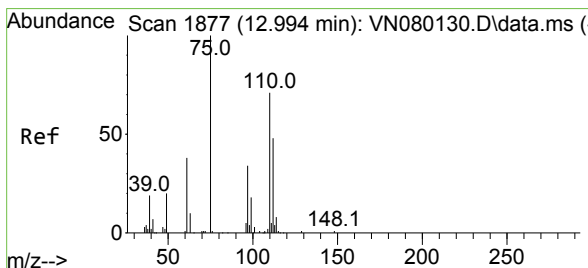
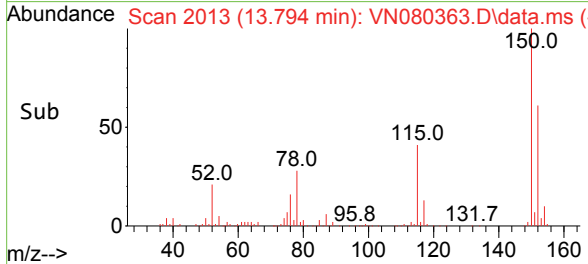
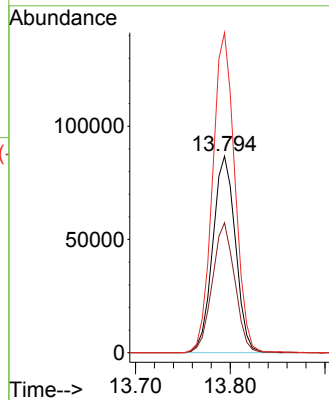
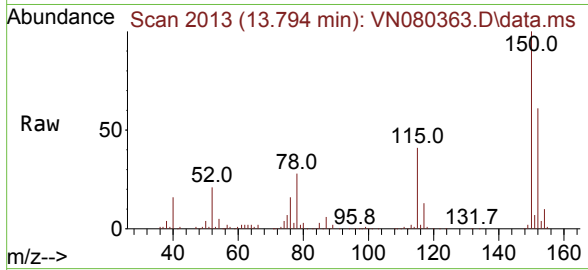




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN080363.D
 Acq: 05 Dec 2023 13:59

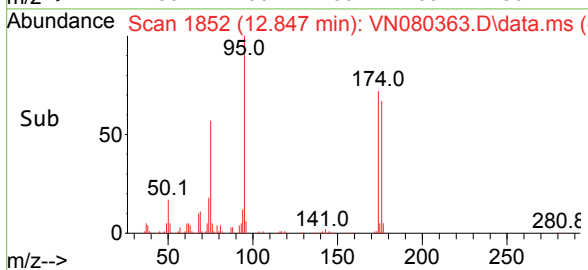
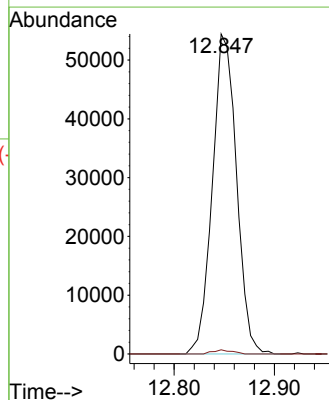
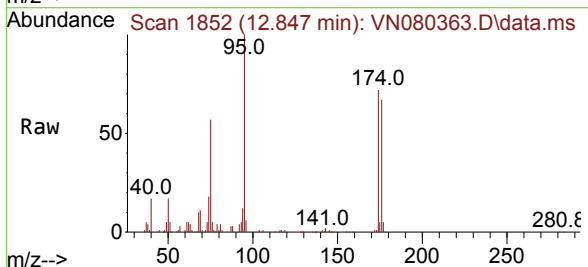
Instrument :
 MSVOA_N
 ClientSampleId :

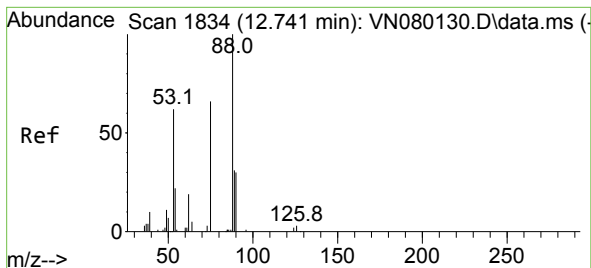
Tgt Ion:152 Resp: 144276
 Ion Ratio Lower Upper
 152 100
 115 65.5 32.3 96.8
 150 160.1 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 25.718 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN080363.D
 Acq: 05 Dec 2023 13:59

Tgt Ion: 75 Resp: 90914
 Ion Ratio Lower Upper
 75 100
 77 1.0 84.5 253.5#

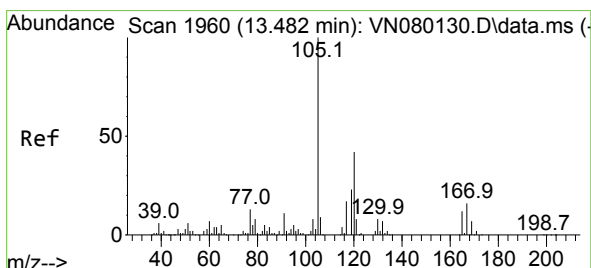
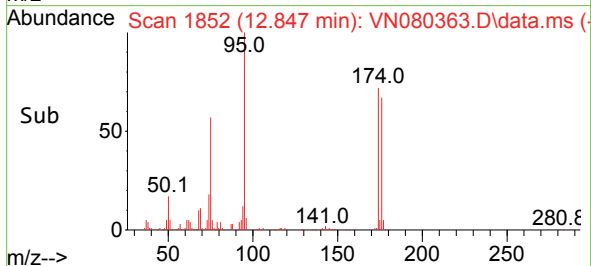
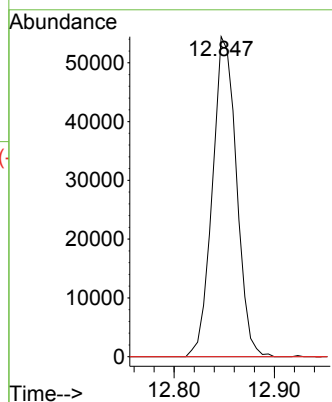
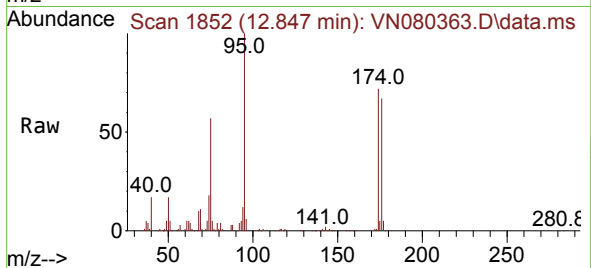




#81
trans-1,4-Dichloro-2-butene
Concen: 86.891 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

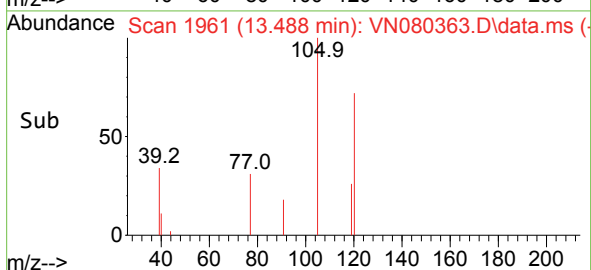
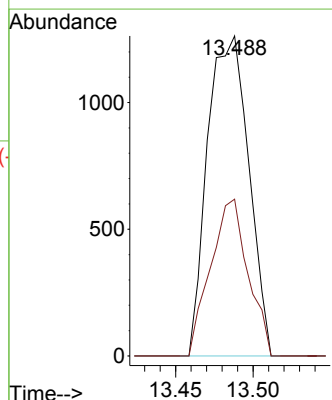
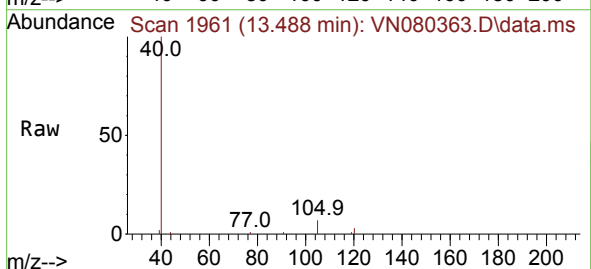
Instrument :
MSVOA_N
ClientSampleId :

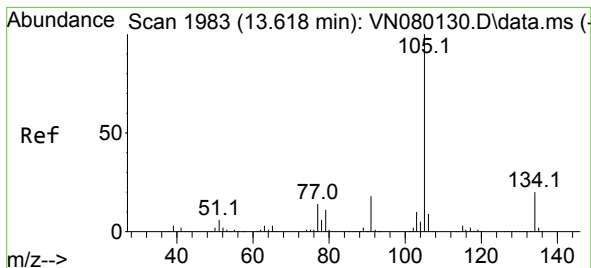
Tgt Ion: 75 Resp: 90914
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.242 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN080363.D
Acq: 05 Dec 2023 13:59

Tgt Ion: 105 Resp: 2328
Ion Ratio Lower Upper
105 100
120 44.7 22.0 66.0

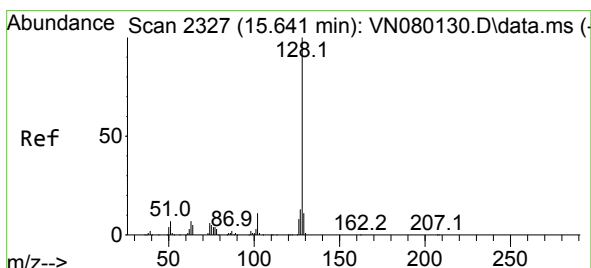
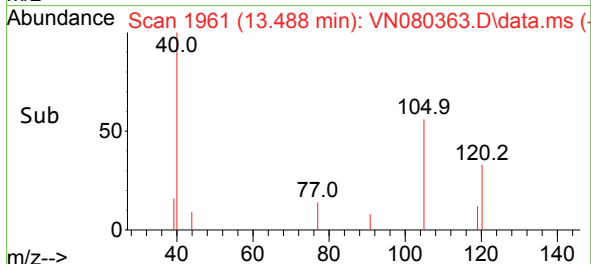
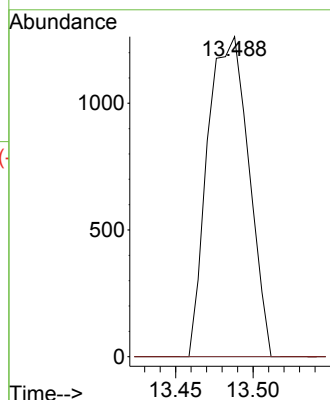
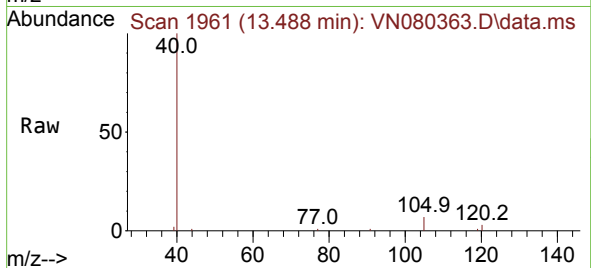




#85
 sec-Butylbenzene
 Concen: 0.235 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. -0.130 min
 Lab File: VN080363.D
 Acq: 05 Dec 2023 13:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion:105 Resp: 2328
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#95
 Naphthalene
 Concen: 1.343 ug/l
 RT: 15.641 min Scan# 2327
 Delta R.T. -0.000 min
 Lab File: VN080363.D
 Acq: 05 Dec 2023 13:59

Tgt Ion:128 Resp: 11039
 Ion Ratio Lower Upper
 128 100
 127 14.8 10.0 15.0
 129 9.4 8.7 13.1

