

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073123\
 Data File : VN078709.D
 Acq On : 31 Jul 2023 16:48
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Aug 01 01:20:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

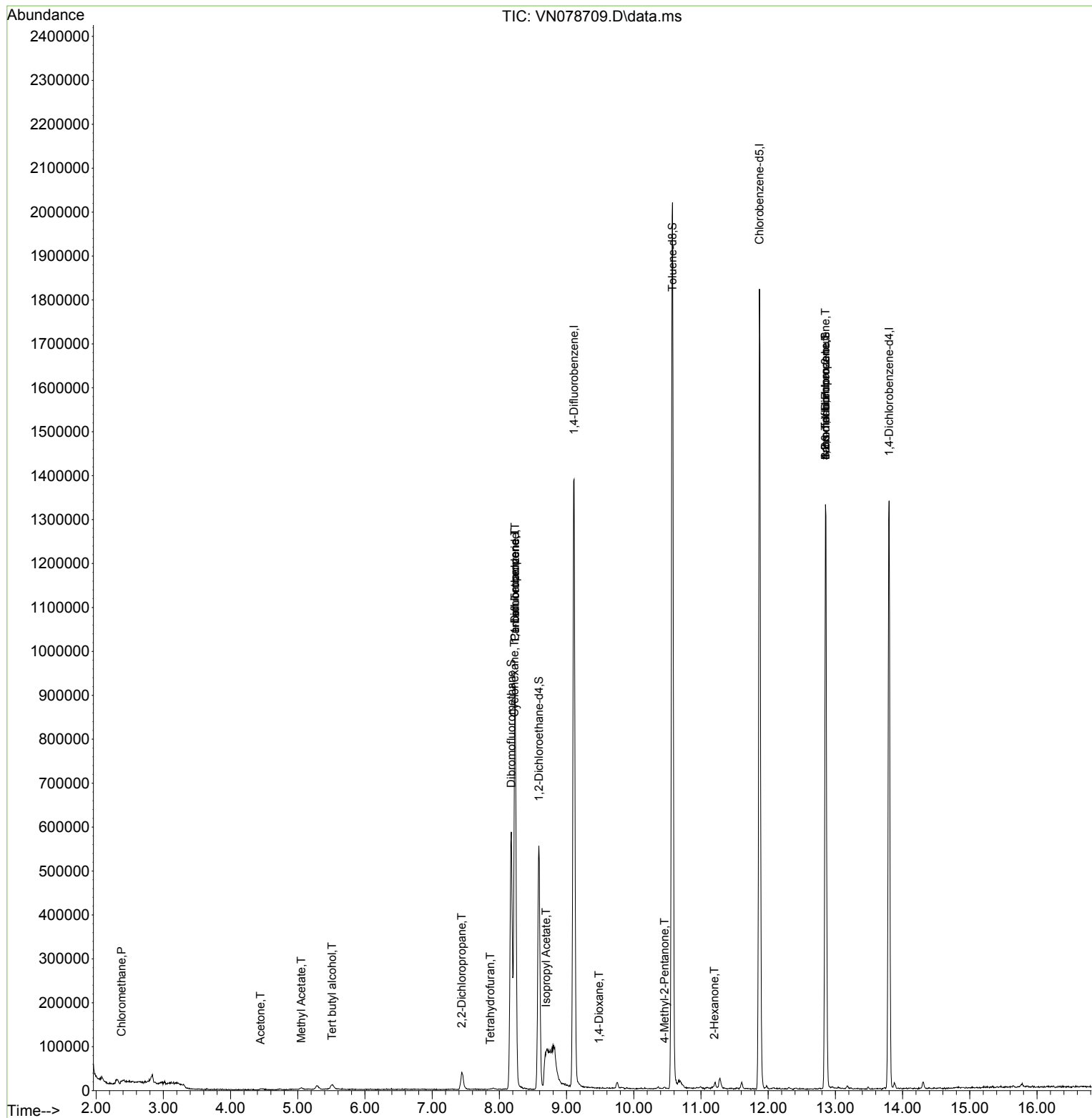
Internal Standards						
1) Pentafluorobenzene	8.235	168	692618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1272394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	1128989	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	384368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	463456	49.913	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.820%
35) Dibromofluoromethane	8.177	113	439756	50.913	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.820%
50) Toluene-d8	10.576	98	1522158	46.650	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.300%
62) 4-Bromofluorobenzene	12.853	95	508706	50.615	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.220%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	2535	0.275	ug/l #	67
5) Bromomethane	2.965	94	2970	Below Cal	#	79
6) Chloroethane	3.118	64	1026	Below Cal	#	87
11) Tert butyl alcohol	5.512	59	9731	6.796	ug/l #	74
16) Acetone	4.447	43	1226	0.424	ug/l #	80
18) Methyl Acetate	5.053	43	7441	0.608	ug/l #	67
20) Methylene Chloride	5.300	84	7261	Below Cal	#	69
26) 2,2-Dichloropropane	7.441	77	2935	0.238	ug/l #	53
29) Tetrahydrofuran	7.865	42	615	0.206	ug/l #	47
31) Cyclohexane	8.224	56	13562	1.081	ug/l #	45
36) 1,1-Dichloropropene	8.230	75	55063	4.415	ug/l #	48
38) Carbon Tetrachloride	8.235	117	72741	5.366	ug/l #	17
43) Isopropyl Acetate	8.694	43	76310	4.458	ug/l #	51
49) 1,4-Dioxane	9.482	88	62	0.359	ug/l #	30
51) 4-Methyl-2-Pentanone	10.459	43	2337	0.230	ug/l #	61
59) 2-Hexanone	11.200	43	5577	0.771	ug/l #	40
71) Bromoform	12.853	173	1940	0.295	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.941	83	632	Below Cal	#	57
76) 1,2,3-Trichloropropane	12.853	75	253095	27.242	ug/l #	1
77) Bromobenzene	12.988	156	257	Below Cal	#	52
81) trans-1,4-Dichloro-2-b...	12.853	75	253095	71.587	ug/l #	15
90) Hexachloroethane	14.347	117	139	Below Cal		71
92) 1,2-Dibromo-3-Chloropr...	14.717	75	90	Below Cal	#	4
94) Hexachlorobutadiene	15.500	225	54	Below Cal	#	1

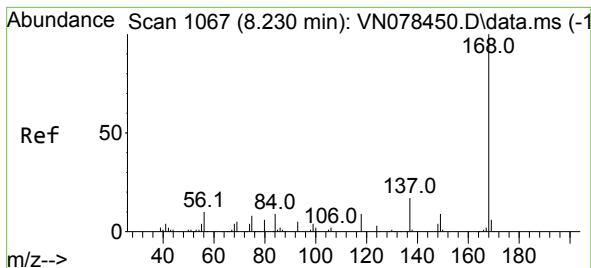
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

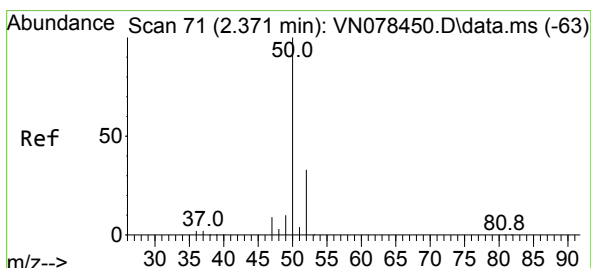
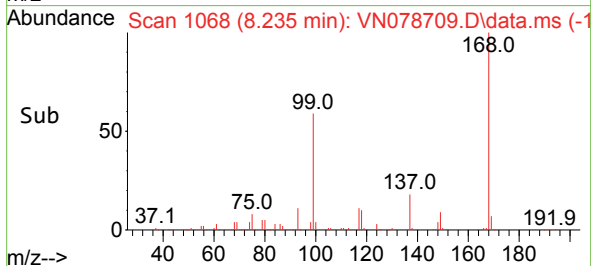
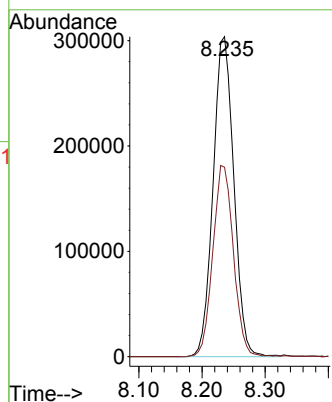
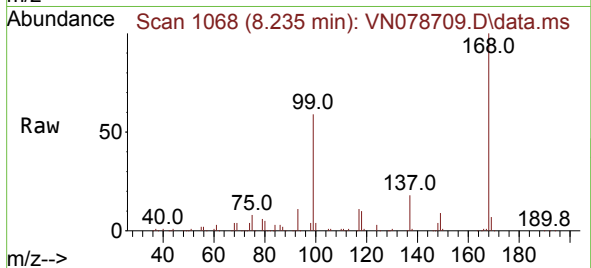
IBLK

Tgt Ion:168 Resp: 692618

Ion Ratio Lower Upper

168 100

99 59.2 53.0 79.6



#3

Chloromethane

Concen: 0.275 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078709.D

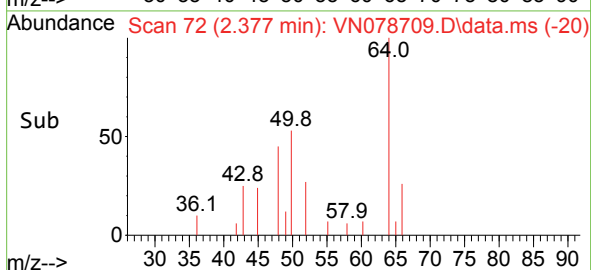
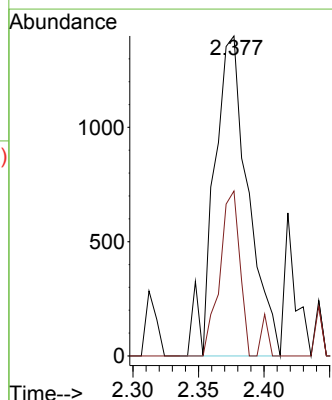
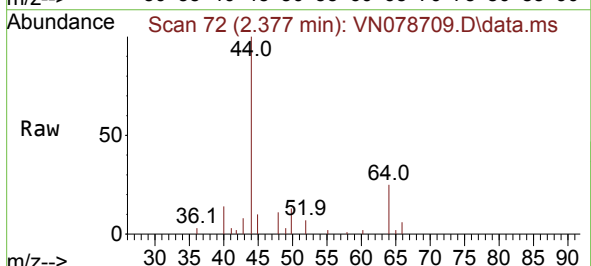
Acq: 31 Jul 2023 16:48

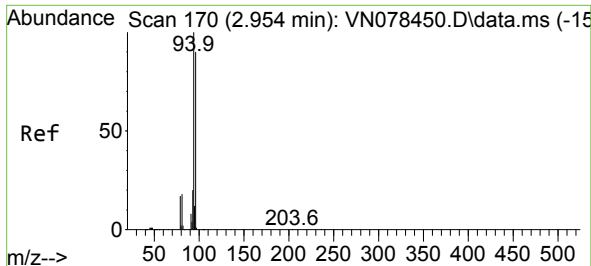
Tgt Ion: 50 Resp: 2535

Ion Ratio Lower Upper

50 100

52 51.6 26.5 39.7#

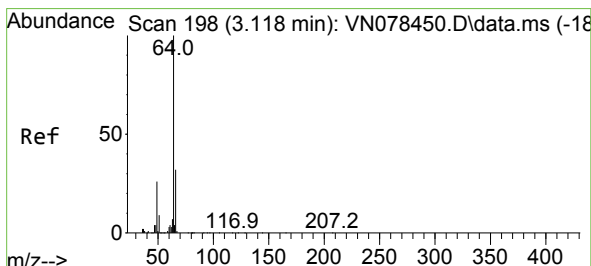
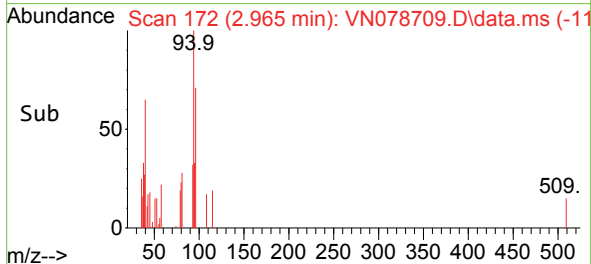
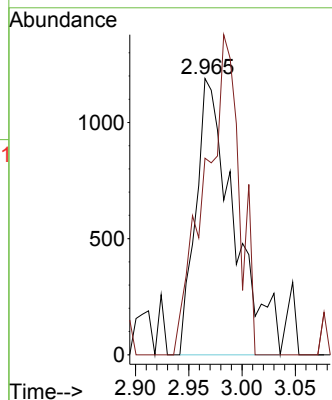
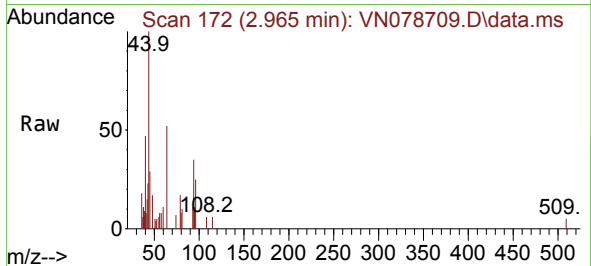




#5
Bromomethane
Concen: Below Cal
RT: 2.965 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

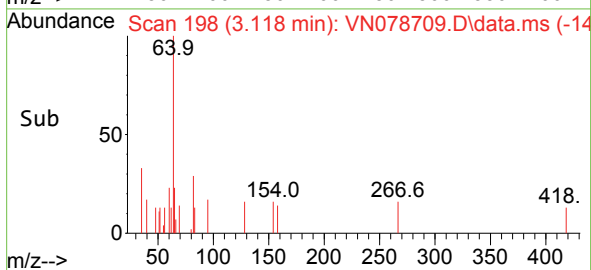
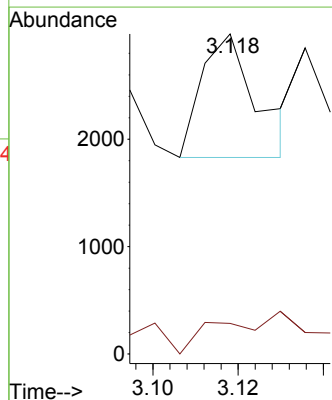
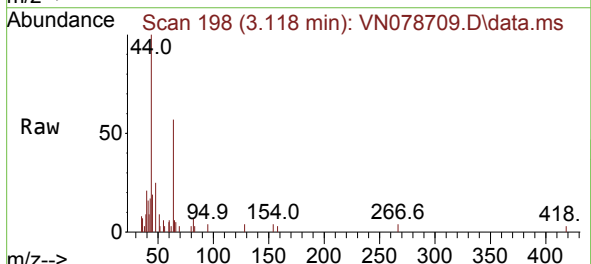
Instrument :
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IBLK

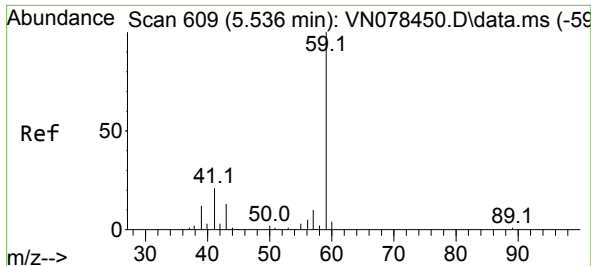
Tgt Ion: 94 Resp: 2970
Ion Ratio Lower Upper
94 100
96 71.2 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 64 Resp: 1026
Ion Ratio Lower Upper
64 100
66 24.8 25.4 38.2#

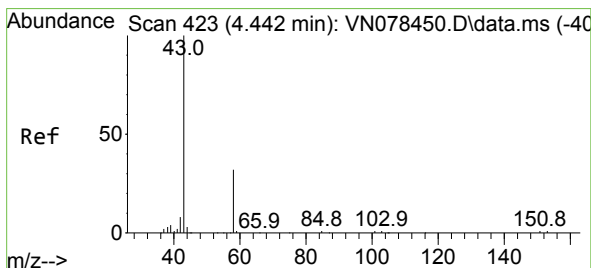
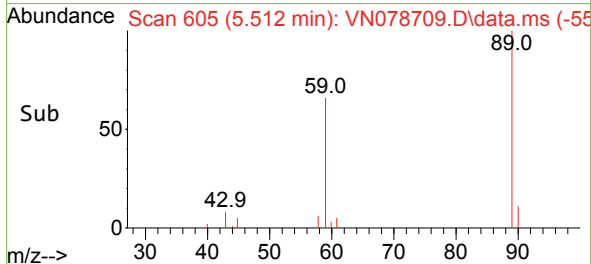
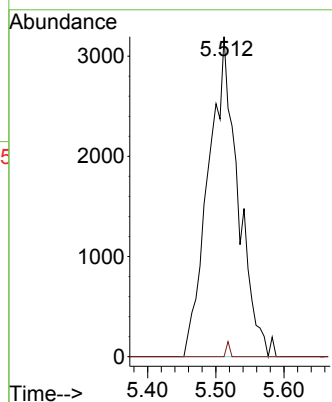
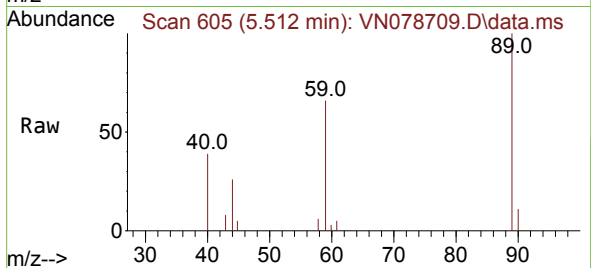




#11
Tert butyl alcohol
Concen: 6.796 ug/l
RT: 5.512 min Scan# 609
Delta R.T. -0.024 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

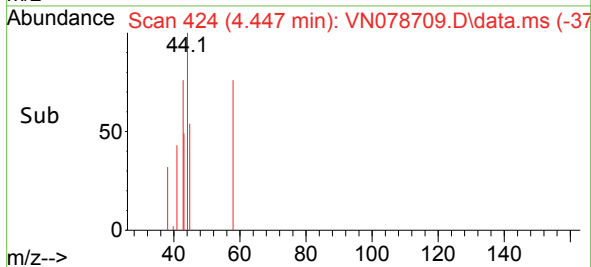
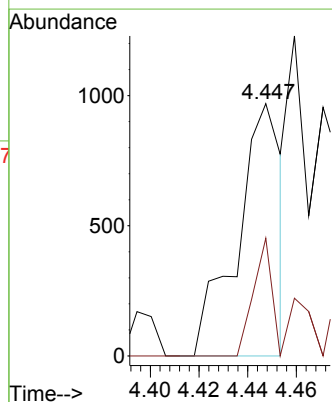
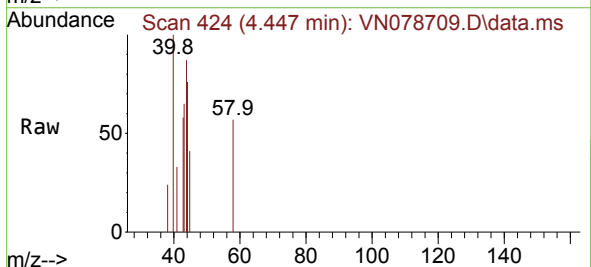
Instrument :
MSVOA_N
ClientSampleId :
IBLK

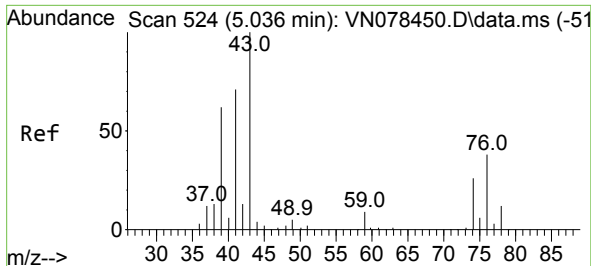
Tgt Ion: 59 Resp: 9731
Ion Ratio Lower Upper
59 100
57 0.5 8.2 12.4#



#16
Acetone
Concen: 0.424 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.005 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 43 Resp: 1226
Ion Ratio Lower Upper
43 100
58 46.6 28.0 42.0#

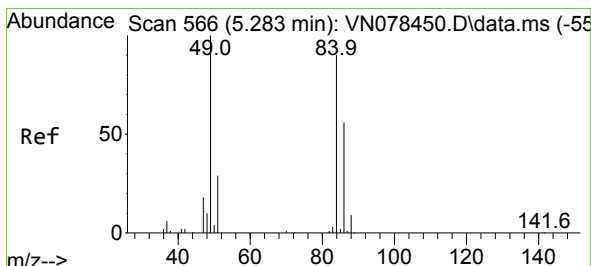
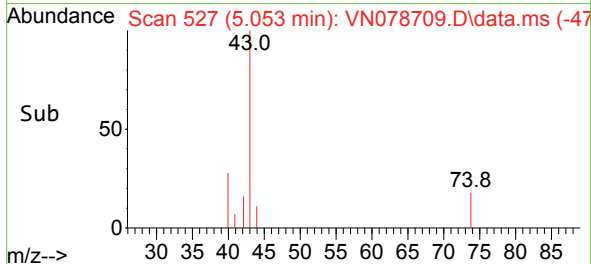
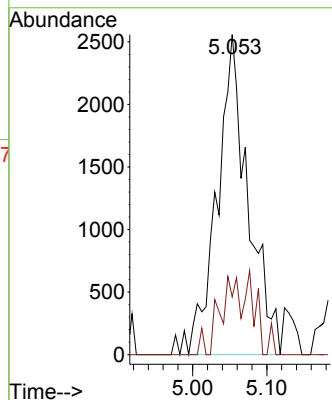
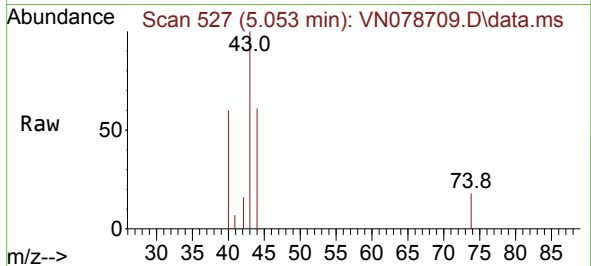




#18
Methyl Acetate
Concen: 0.608 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

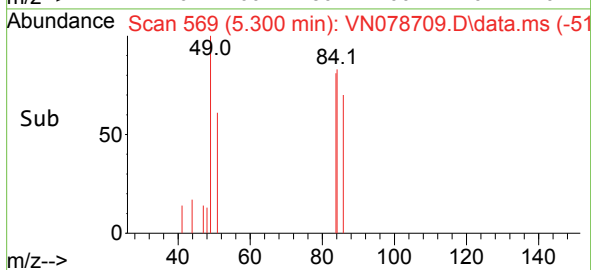
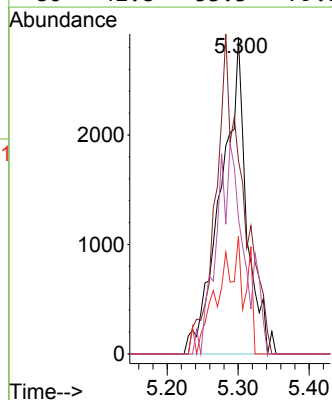
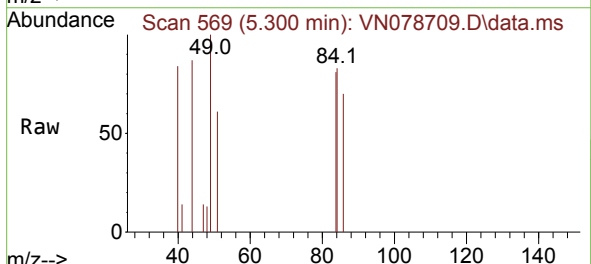
Instrument :
MSVOA_N
ClientSampleId :
IBLK

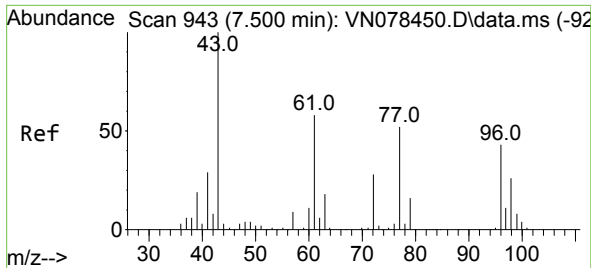
Tgt Ion: 43 Resp: 7441
Ion Ratio Lower Upper
43 100
74 14.3 26.2 39.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.300 min Scan# 569
Delta R.T. 0.017 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 84 Resp: 7261
Ion Ratio Lower Upper
84 100
49 61.1 79.7 119.5#
51 37.2 25.2 37.8
86 42.8 53.3 79.9#

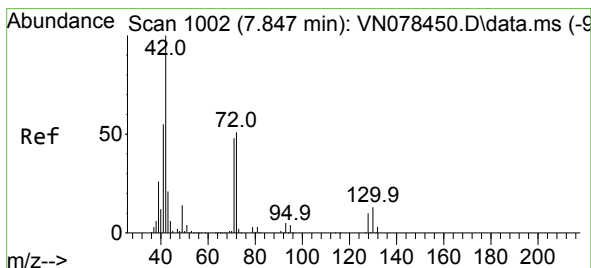
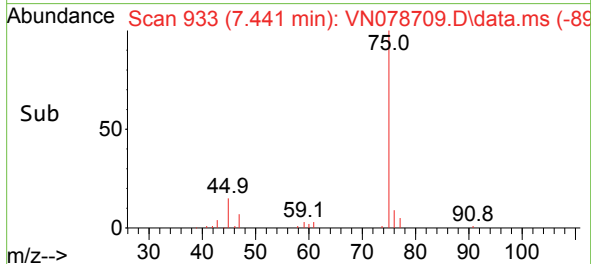
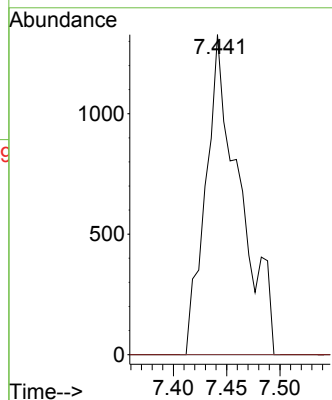
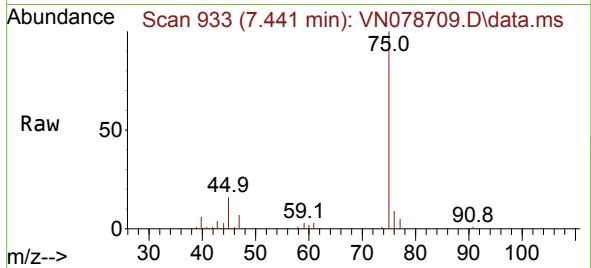




#26
2,2-Dichloropropane
Concen: 0.238 ug/l
RT: 7.441 min Scan# 91
Delta R.T. -0.059 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

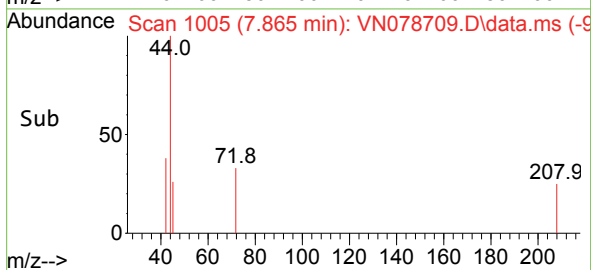
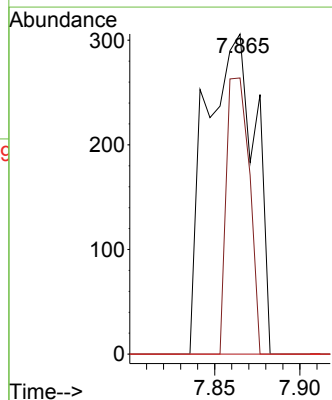
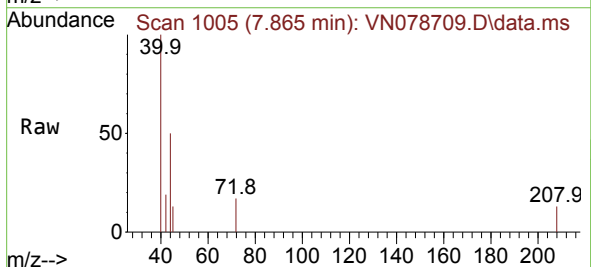
Instrument :
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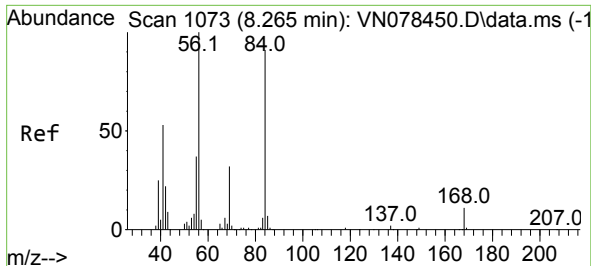
Tgt Ion: 77 Resp: 2935
Ion Ratio Lower Upper
77 100
97 0.0 11.2 33.6#



#29
Tetrahydrofuran
Concen: 0.206 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 42 Resp: 615
Ion Ratio Lower Upper
42 100
72 40.0 49.8 74.6#
71 0.0 47.4 71.2#

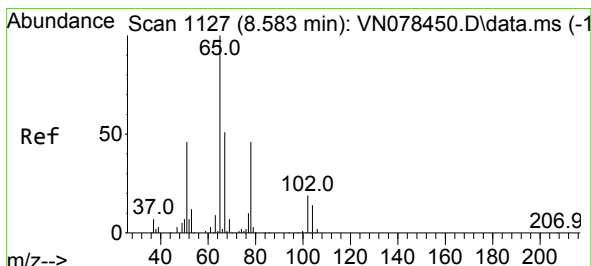
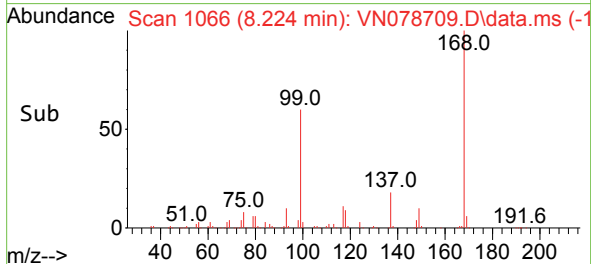
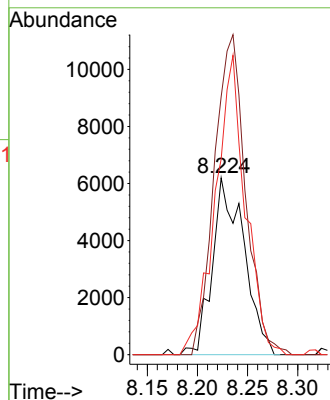
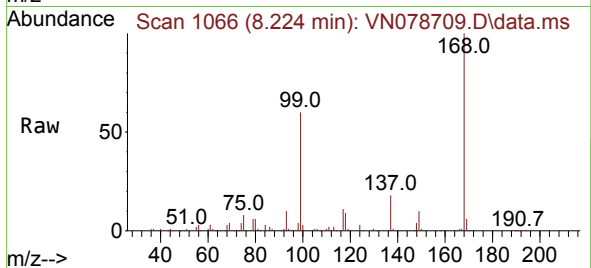




#31
Cyclohexane
Concen: 1.081 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

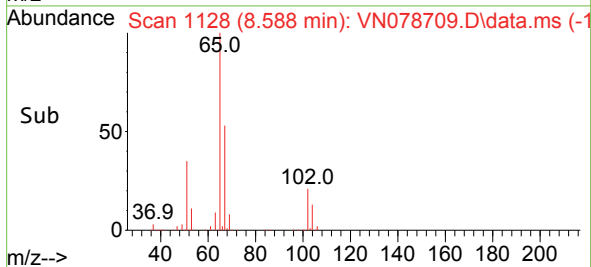
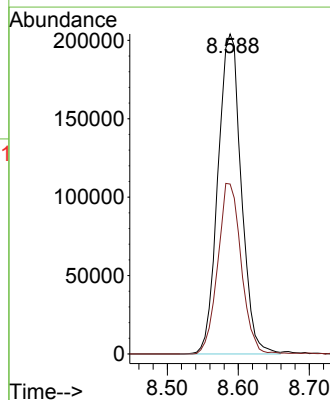
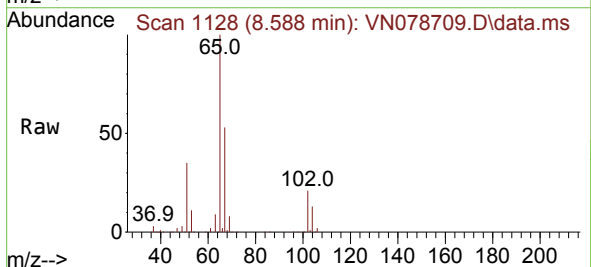
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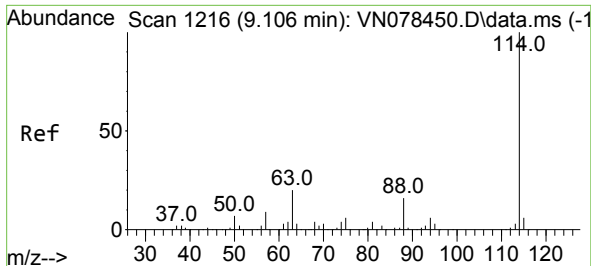
Tgt Ion: 56 Resp: 13562
Ion Ratio Lower Upper
56 100
69 146.0 26.8 40.2#
84 110.7 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 49.913 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 65 Resp: 463456
Ion Ratio Lower Upper
65 100
67 53.7 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

IBLK

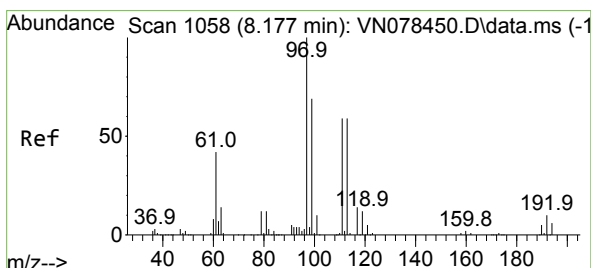
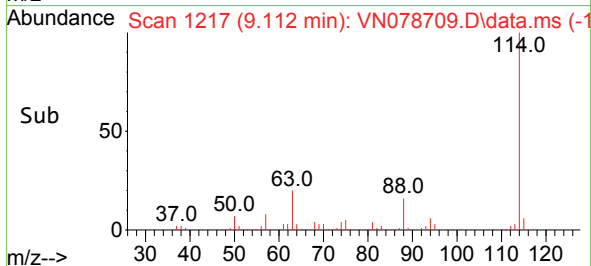
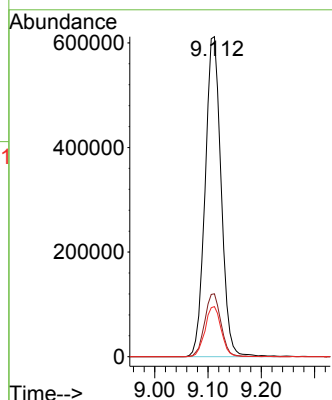
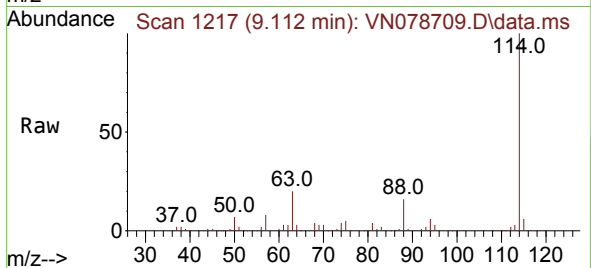
Tgt Ion:114 Resp: 1272394

Ion Ratio Lower Upper

114 100

63 19.6 0.0 36.4

88 15.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.913 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

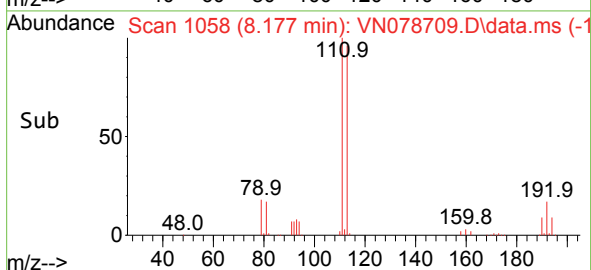
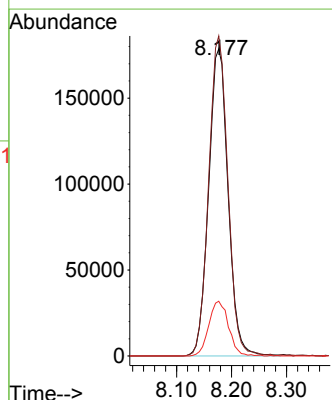
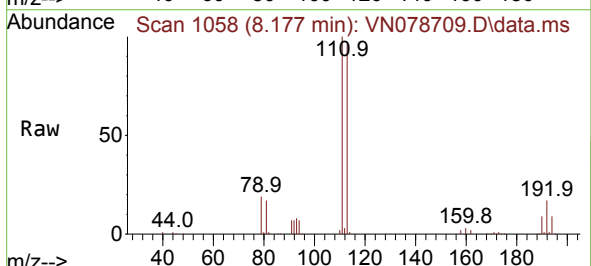
Tgt Ion:113 Resp: 439756

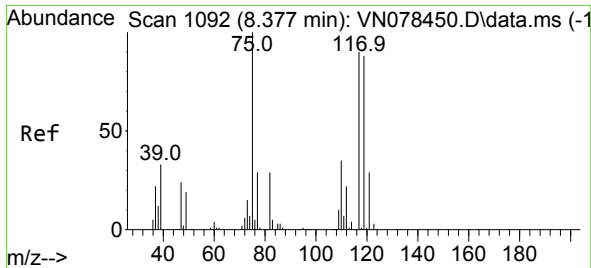
Ion Ratio Lower Upper

113 100

111 102.5 82.6 123.8

192 18.1 12.7 19.1

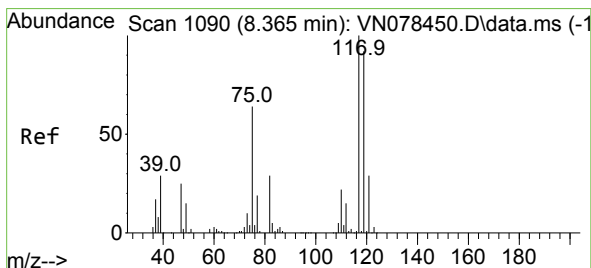
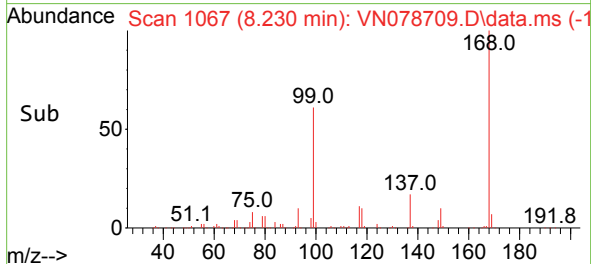
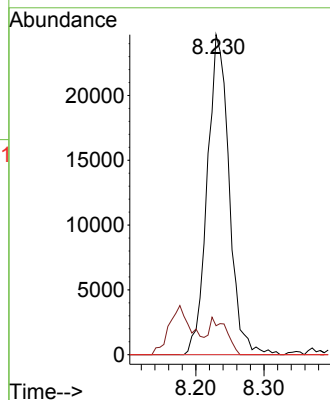
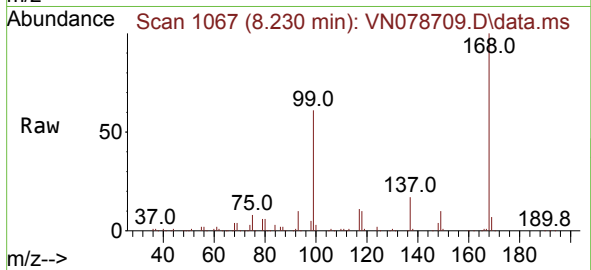




#36
 1,1-Dichloropropene
 Concen: 4.415 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078709.D
 Acq: 31 Jul 2023 16:48

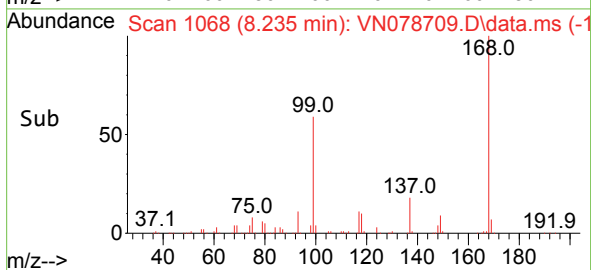
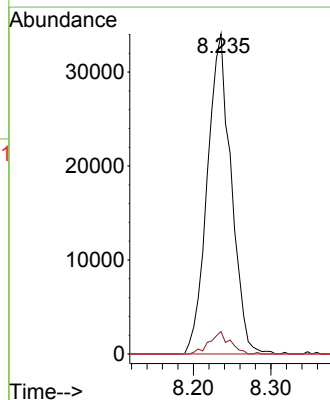
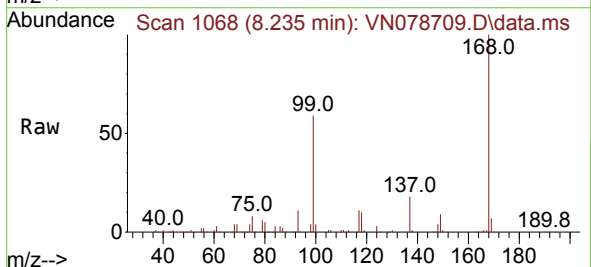
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

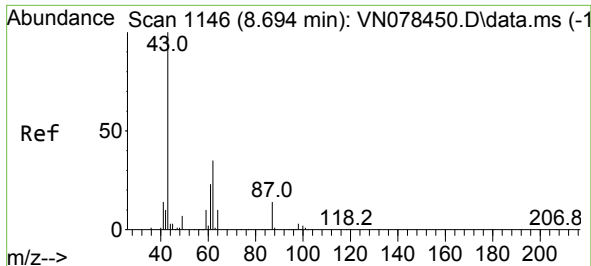
Tgt Ion: 75 Resp: 55063
 Ion Ratio Lower Upper
 75 100
 110 9.2 19.1 57.3#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.366 ug/l
 RT: 8.235 min Scan# 1068
 Delta R.T. -0.130 min
 Lab File: VN078709.D
 Acq: 31 Jul 2023 16:48

Tgt Ion: 117 Resp: 72741
 Ion Ratio Lower Upper
 117 100
 119 7.0 77.3 115.9#
 121 0.0 23.3 34.9#

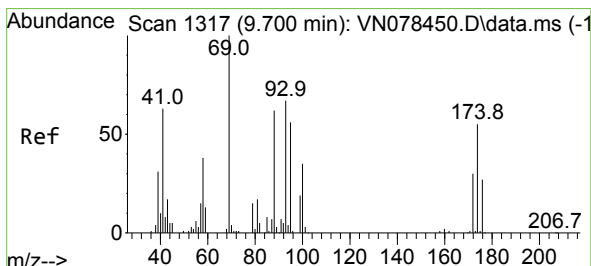
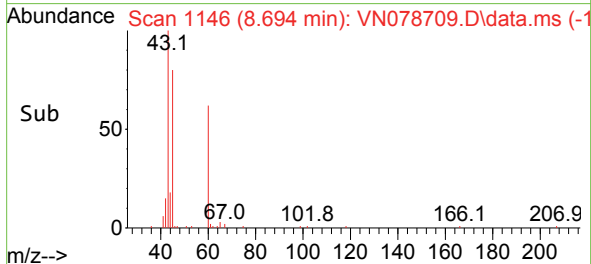
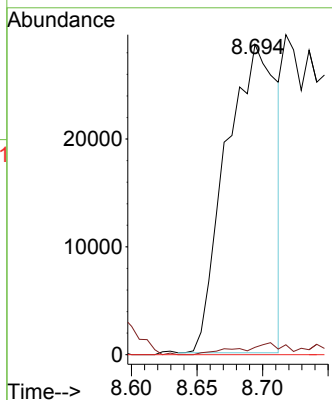
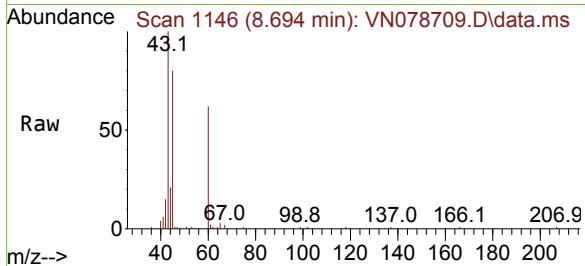




#43
Isopropyl Acetate
Concen: 4.458 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

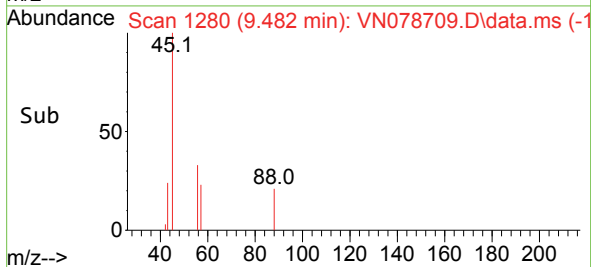
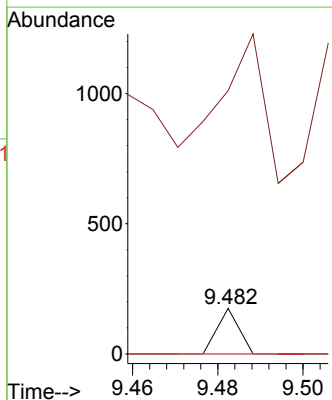
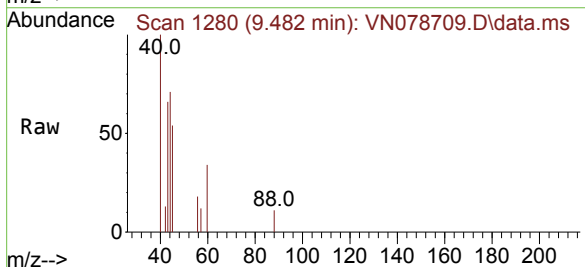
Instrument :
MSVOA_N
ClientSampleId :
IBLK

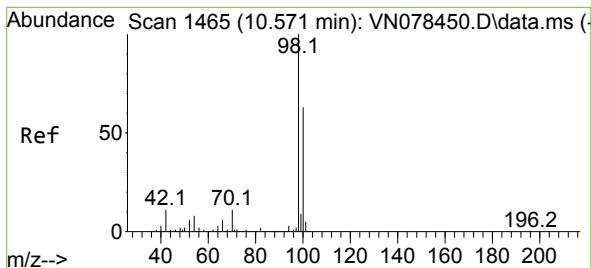
Tgt Ion: 43 Resp: 76310
Ion Ratio Lower Upper
43 100
61 1.3 24.7 37.1#
87 0.0 14.6 21.8#



#49
1,4-Dioxane
Concen: 0.359 ug/l
RT: 9.482 min Scan# 1280
Delta R.T. -0.218 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#





#50

Toluene-d8

Concen: 46.650 ug/l

RT: 10.576 min Scan# 1465

Delta R.T. 0.005 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

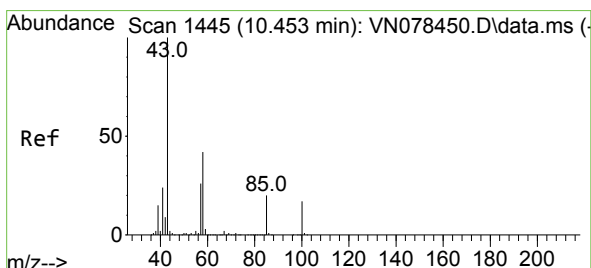
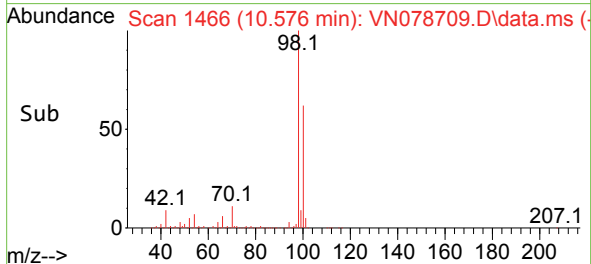
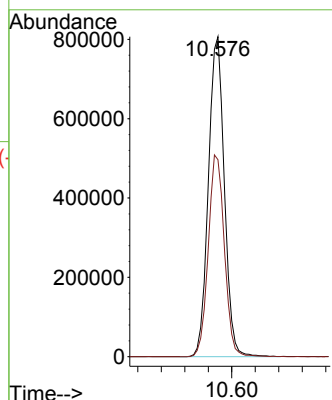
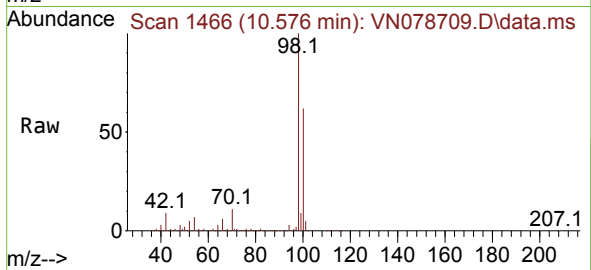
IBLK

Tgt Ion: 98 Resp: 1522158

Ion Ratio Lower Upper

98 100

100 63.7 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.230 ug/l

RT: 10.459 min Scan# 1446

Delta R.T. 0.006 min

Lab File: VN078709.D

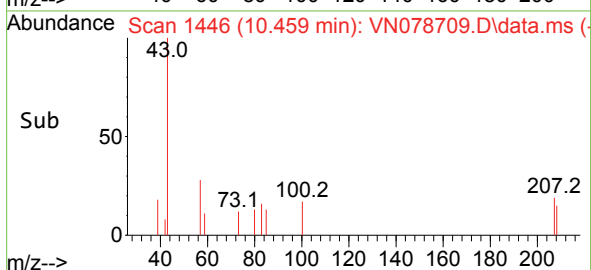
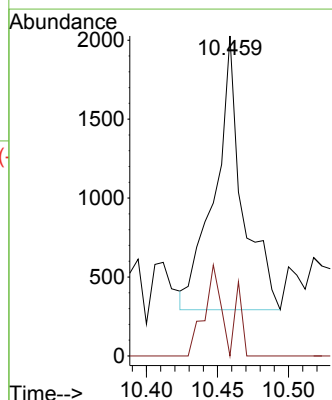
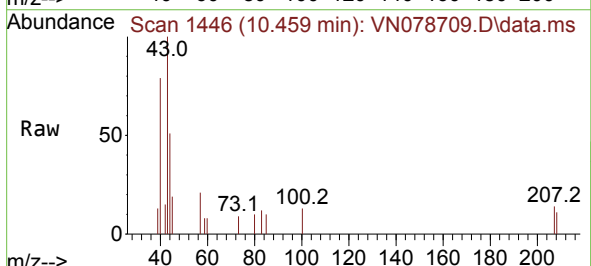
Acq: 31 Jul 2023 16:48

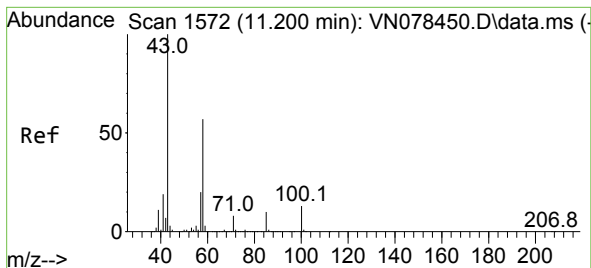
Tgt Ion: 43 Resp: 2337

Ion Ratio Lower Upper

43 100

58 19.9 36.6 54.8#

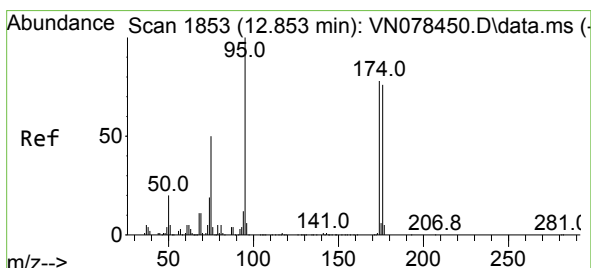
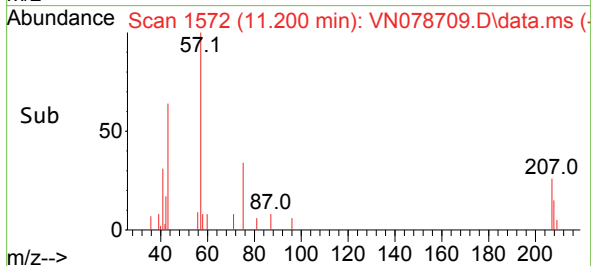
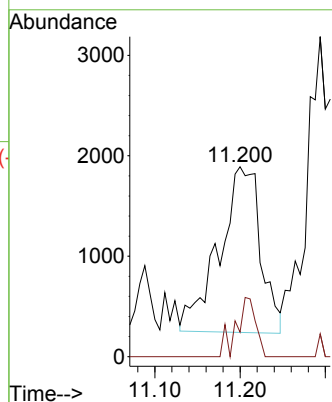
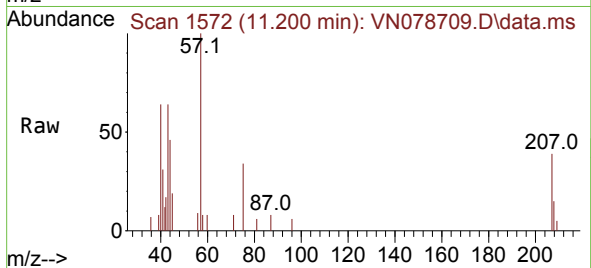




#59
2-Hexanone
Concen: 0.771 ug/l
RT: 11.200 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

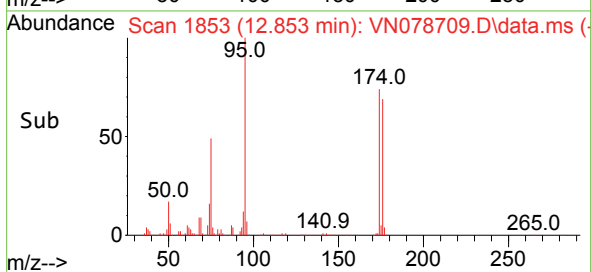
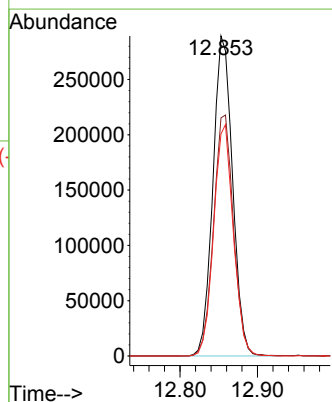
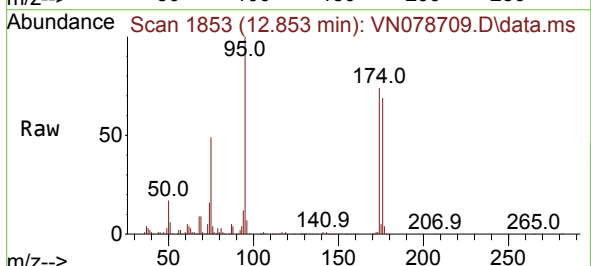
Instrument :
MSVOA_N
ClientSampleId :
IBLK

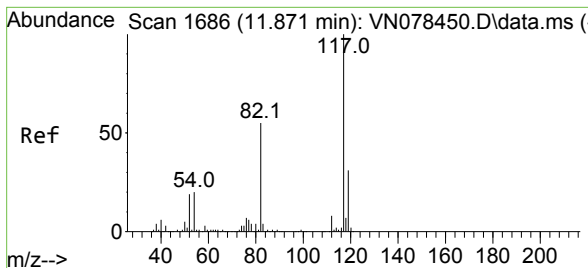
Tgt Ion: 43 Resp: 5577
Ion Ratio Lower Upper
43 100
58 16.6 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.615 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 95 Resp: 508706
Ion Ratio Lower Upper
95 100
174 76.5 0.0 143.8
176 72.4 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

IBLK

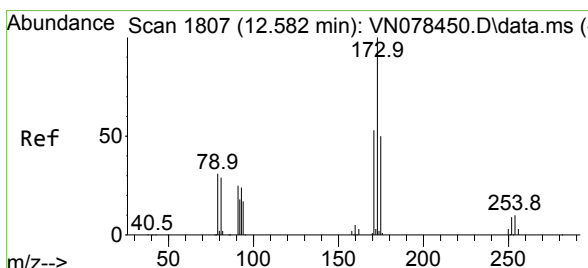
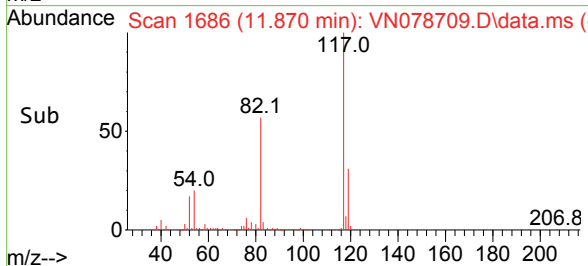
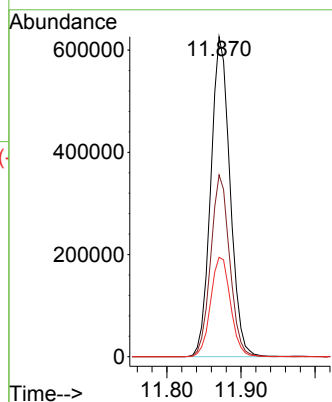
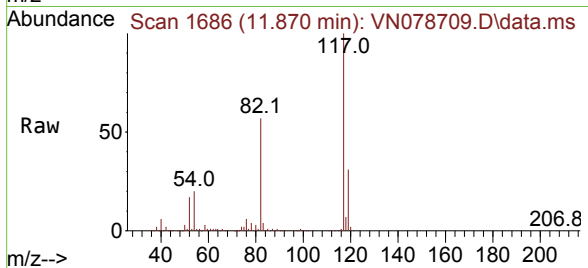
Tgt Ion:117 Resp: 1128989

Ion Ratio Lower Upper

117 100

82 56.8 44.0 66.0

119 31.1 25.6 38.4



#71

Bromoform

Concen: 0.295 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

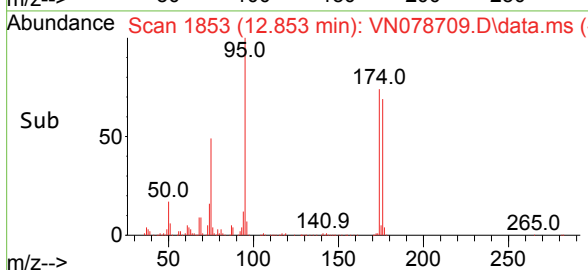
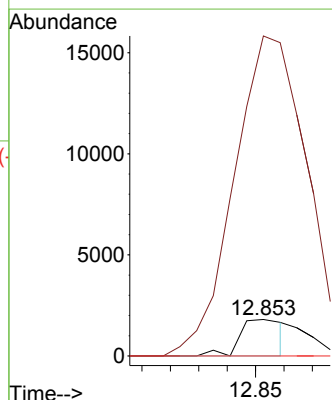
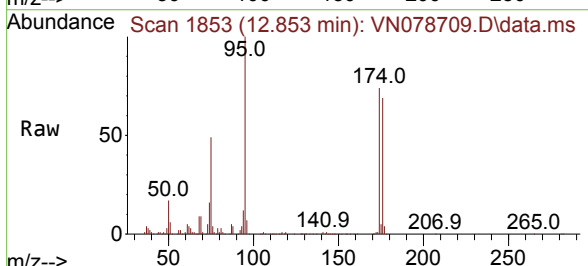
Tgt Ion:173 Resp: 1940

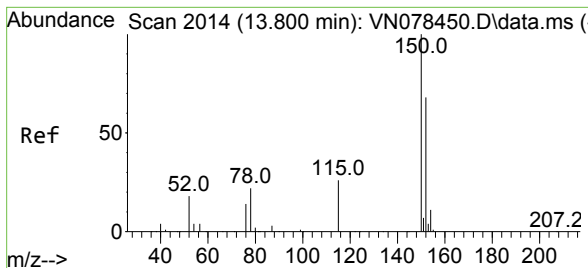
Ion Ratio Lower Upper

173 100

175 1022.1 24.3 73.0#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

IBLK

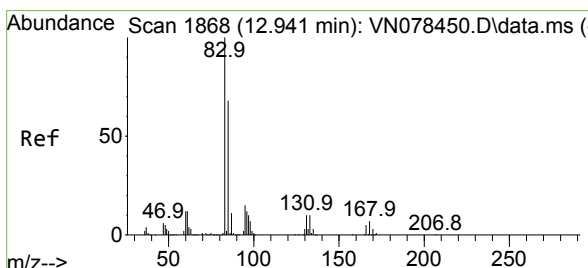
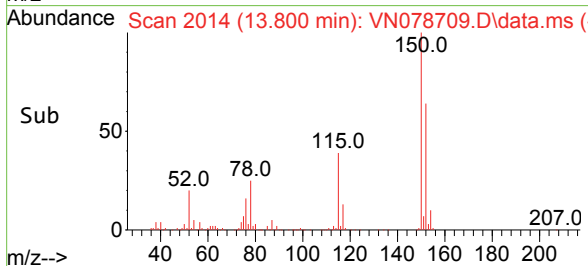
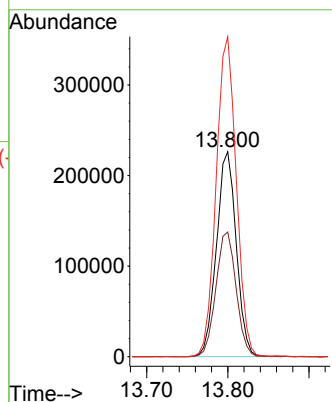
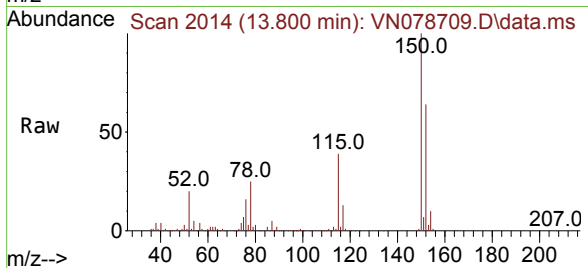
Tgt Ion:152 Resp: 384368

Ion Ratio Lower Upper

152 100

115 62.1 32.3 96.8

150 157.9 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.941 min Scan# 1868

Delta R.T. 0.000 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

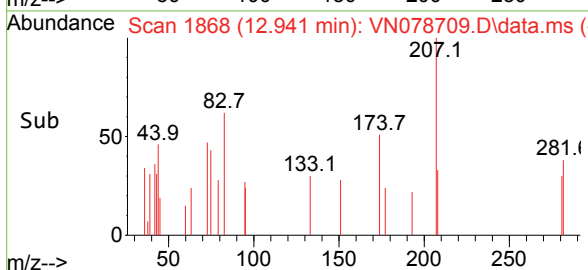
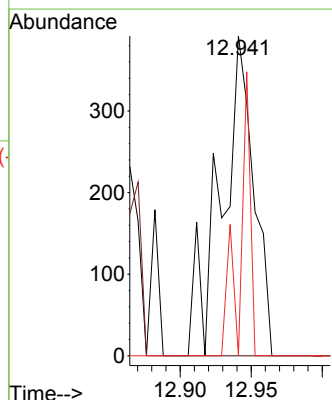
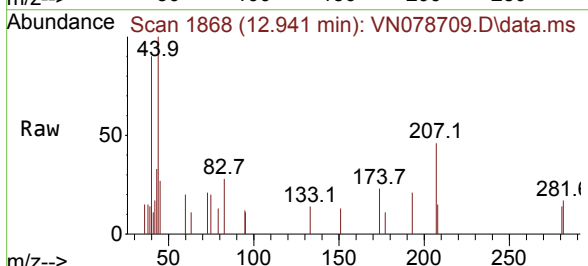
Tgt Ion: 83 Resp: 632

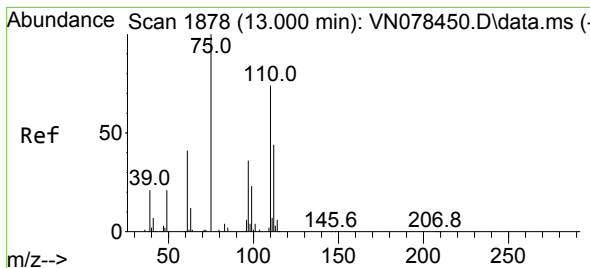
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 28.5 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 27.242 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

Instrument :

MSVOA_N

ClientSampleId :

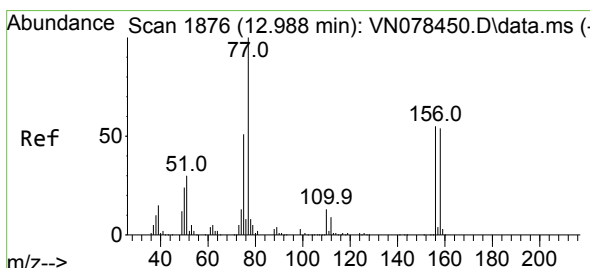
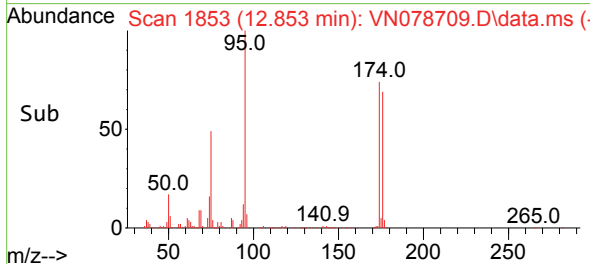
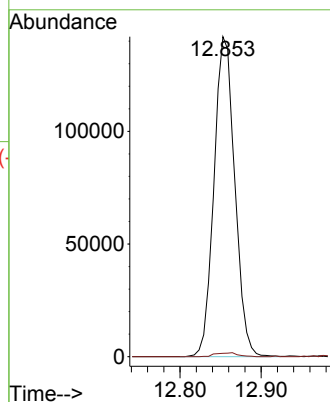
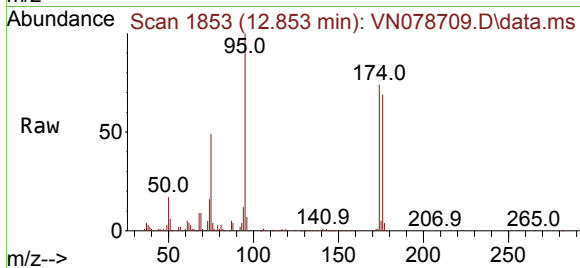
IBLK

Tgt Ion: 75 Resp: 253095

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VN078709.D

Acq: 31 Jul 2023 16:48

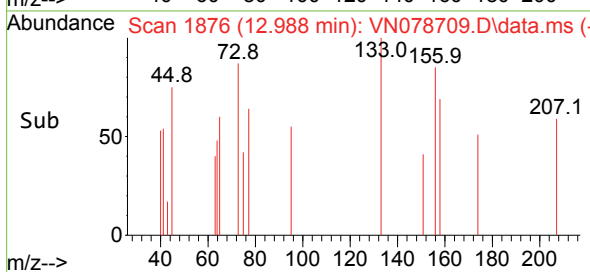
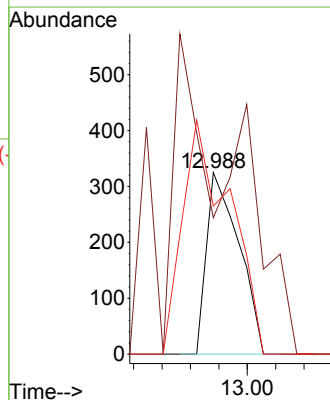
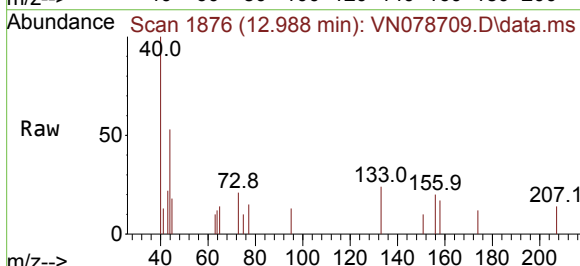
Tgt Ion:156 Resp: 257

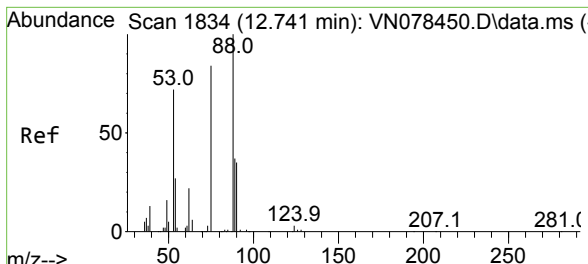
Ion Ratio Lower Upper

156 100

77 258.4 107.7 323.3

158 188.3 48.4 145.3#

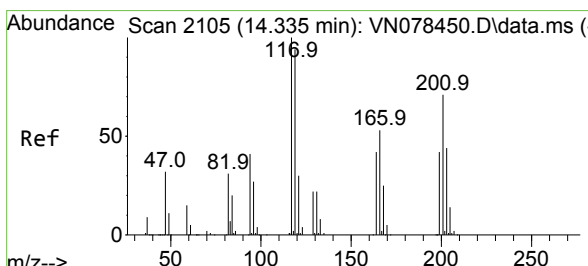
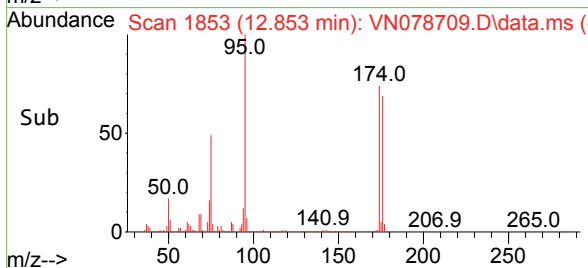
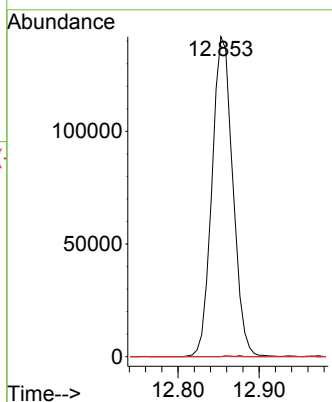
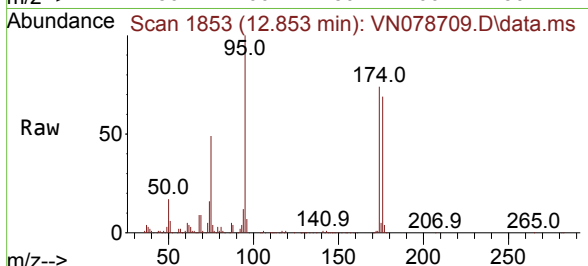




#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.587 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078709.D
 Acq: 31 Jul 2023 16:48

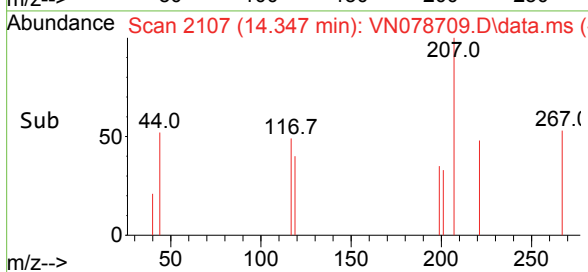
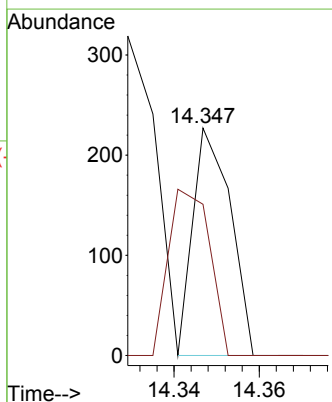
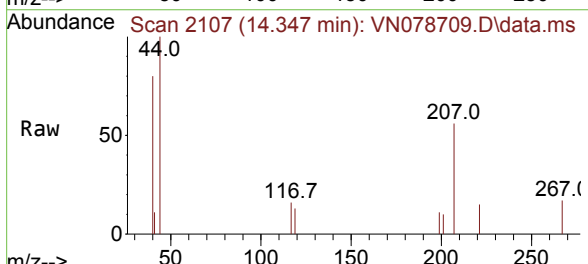
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

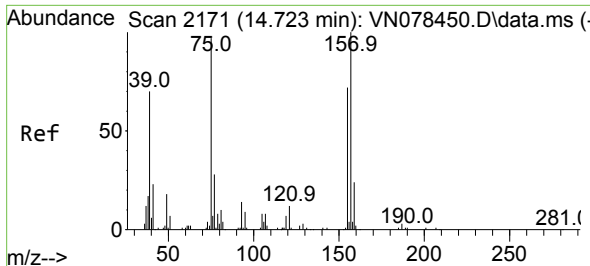
Tgt Ion:	75	Resp:	253095
Ion Ratio	Lower	Upper	
75	100		
53	0.0	67.4	101.2#
89	0.1	38.8	58.2#



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.347 min Scan# 2107
 Delta R.T. 0.012 min
 Lab File: VN078709.D
 Acq: 31 Jul 2023 16:48

Tgt Ion:	117	Resp:	139
Ion Ratio	Lower	Upper	
117	100		
201	80.6	29.3	88.0

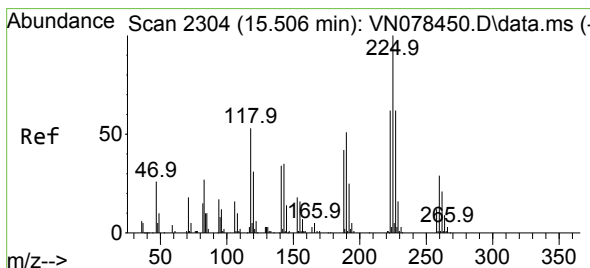
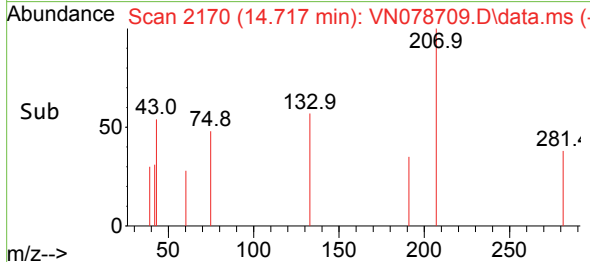
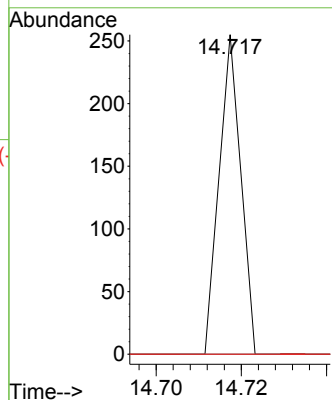
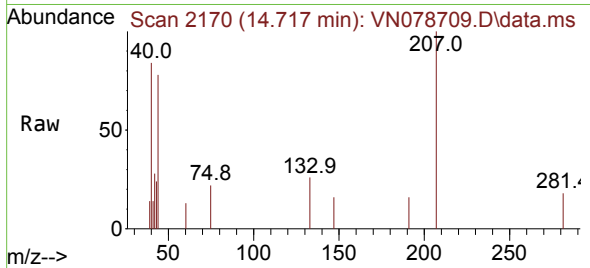




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.717 min Scan# 2171
Delta R.T. -0.006 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion: 75 Resp: 90
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.500 min Scan# 2303
Delta R.T. -0.006 min
Lab File: VN078709.D
Acq: 31 Jul 2023 16:48

Tgt Ion: 225 Resp: 54
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.8#
227 168.5 31.9 95.9#

