

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080723\
 Data File : VN078788.D
 Acq On : 07 Aug 2023 20:53
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Aug 08 05:19:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080723W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 05:03:52 2023
 Response via : Initial Calibration

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

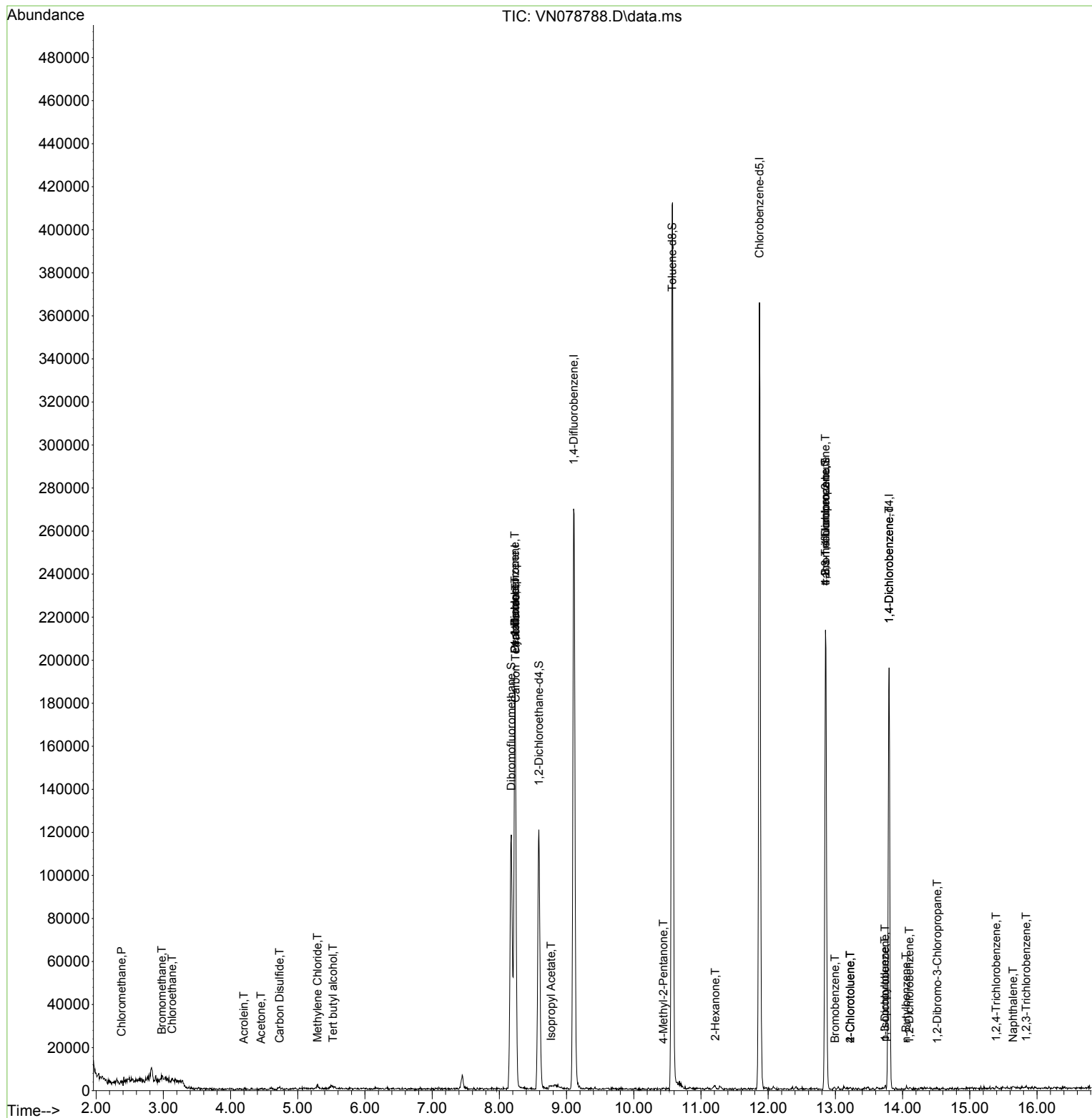
Internal Standards						
1) Pentafluorobenzene	8.235	168	128820	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	233893	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	200727	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	49502	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	93182	48.251	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.500%		
35) Dibromofluoromethane	8.177	113	83557	52.901	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	105.800%		
50) Toluene-d8	10.570	98	285896	49.186	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.380%		
62) 4-Bromofluorobenzene	12.853	95	70519	40.595	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	81.180%#		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	682	0.308	ug/l #	42
5) Bromomethane	2.977	94	1492	1.006	ug/l #	49
6) Chloroethane	3.130	64	653	0.474	ug/l #	43
11) Tert butyl alcohol	5.524	59	827	2.440	ug/l #	72
13) Acrolein	4.200	56	178	0.621	ug/l #	16
16) Acetone	4.453	43	245	0.330	ug/l #	40
17) Carbon Disulfide	4.730	76	1328	0.309	ug/l #	75
20) Methylene Chloride	5.294	84	639	0.347	ug/l #	32
31) Cyclohexane	8.235	56	3824	1.348	ug/l #	7
36) 1,1-Dichloropropene	8.229	75	11188	4.566	ug/l #	52
38) Carbon Tetrachloride	8.241	117	14771	5.847	ug/l #	14
43) Isopropyl Acetate	8.771	43	1368	0.311	ug/l #	49
51) 4-Methyl-2-Pentanone	10.441	43	580	0.216	ug/l #	53
59) 2-Hexanone	11.212	43	810	0.425	ug/l	82
76) 1,2,3-Trichloropropane	12.853	75	41267	30.834	ug/l #	1
77) Bromobenzene	12.994	156	232	0.203	ug/l #	72
79) 2-Chlorotoluene	13.223	91	713	0.207	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.853	75	41267	82.738	ug/l #	15
82) 4-Chlorotoluene	13.223	91	713	0.227	ug/l	96
86) p-Isopropyltoluene	13.735	119	812	0.240	ug/l #	50
87) 1,3-Dichlorobenzene	13.741	146	459	0.251	ug/l #	62
88) 1,4-Dichlorobenzene	13.800	146	469	0.259	ug/l #	1
89) n-Butylbenzene	14.053	91	886	0.349	ug/l #	52
91) 1,2-Dichlorobenzene	14.100	146	555	0.316	ug/l #	70
92) 1,2-Dibromo-3-Chloropr...	14.517	75	65	0.256	ug/l #	4
93) 1,2,4-Trichlorobenzene	15.394	180	144	0.291	ug/l #	28
94) Hexachlorobutadiene	15.500	225	192	Below Cal	#	59
95) Naphthalene	15.647	128	1295	0.785	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.841	180	255	0.433	ug/l #	79

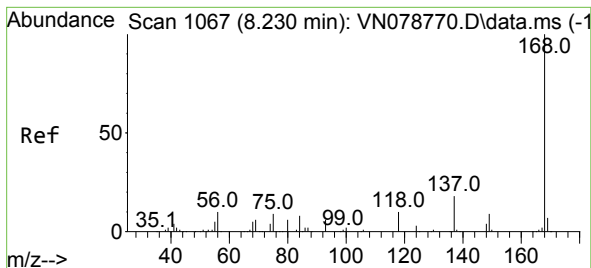
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

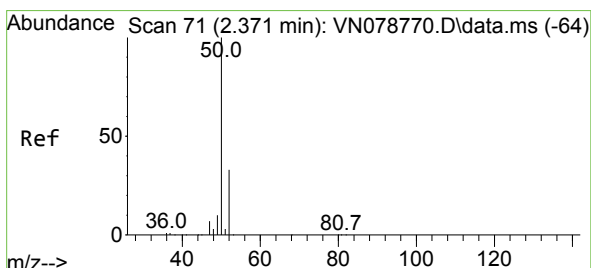
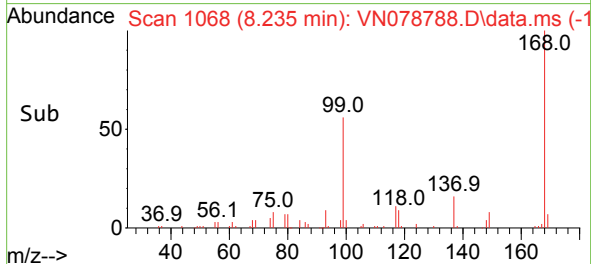
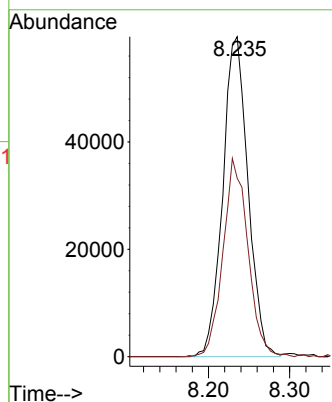
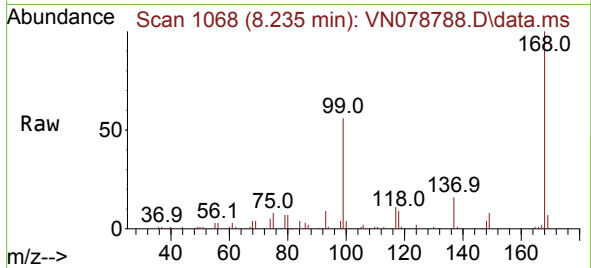




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

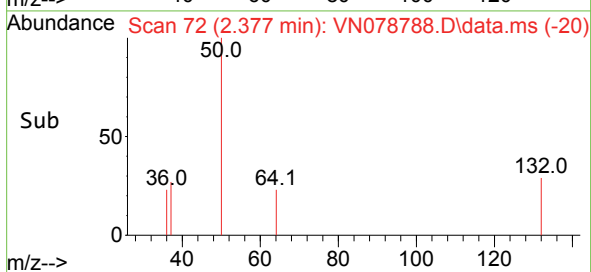
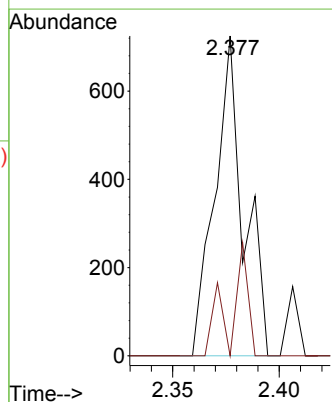
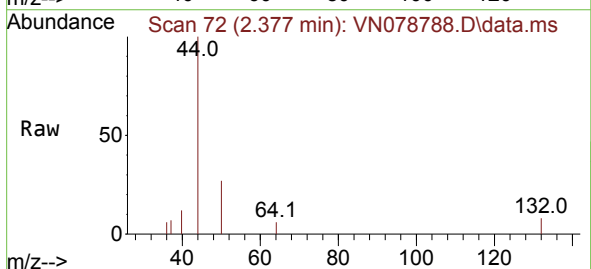
Instrument :
MSVOA_N
ClientSampleId :
IBLK

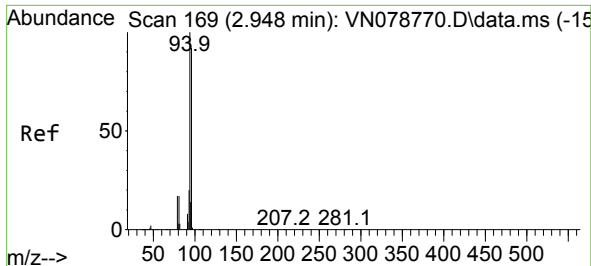
Tgt Ion:168 Resp: 128820
Ion Ratio Lower Upper
168 100
99 55.8 53.0 79.6



#3
Chloromethane
Concen: 0.308 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 50 Resp: 682
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

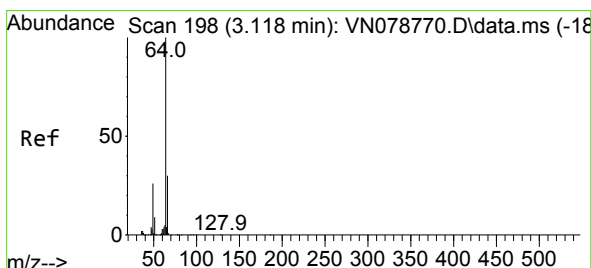
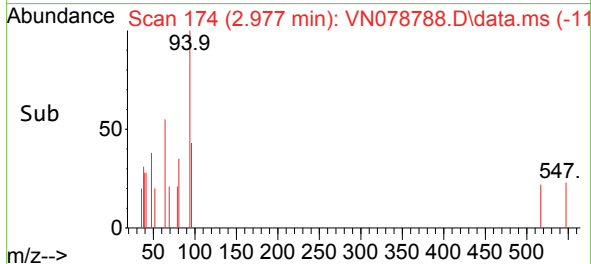
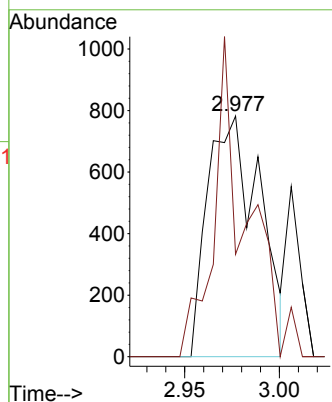
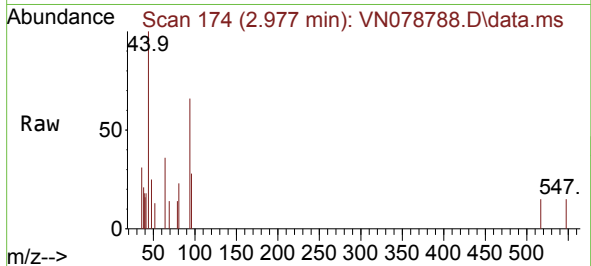




#5
Bromomethane
Concen: 1.006 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

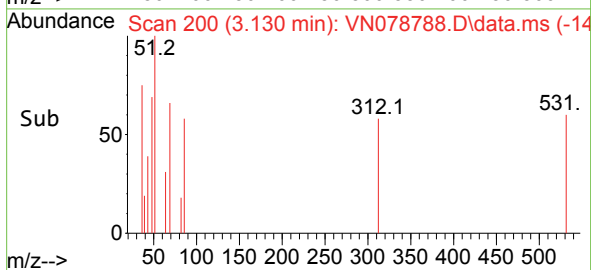
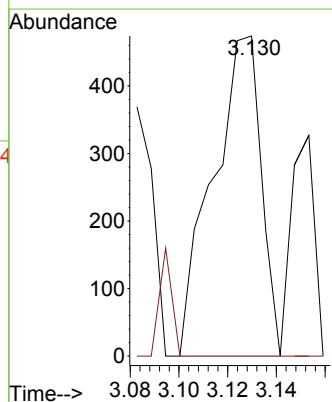
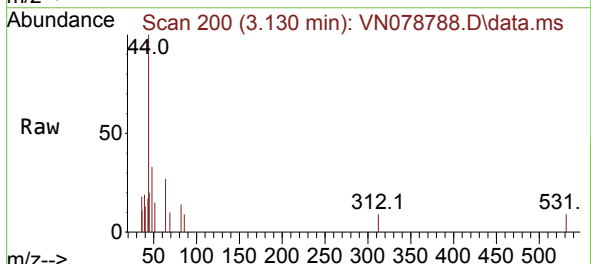
Instrument :
MSVOA_N
ClientSampleId :
IBLK

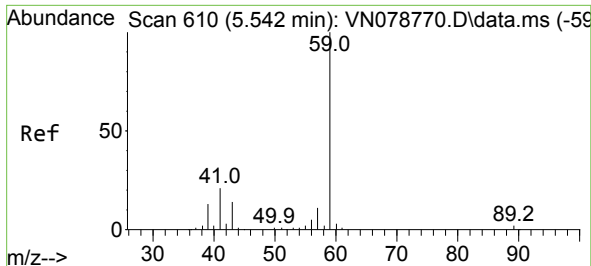
Tgt Ion: 94 Resp: 1492
Ion Ratio Lower Upper
94 100
96 42.6 73.1 109.7#



#6
Chloroethane
Concen: 0.474 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.011 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 64 Resp: 653
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

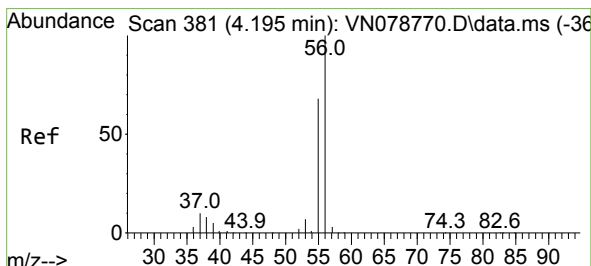
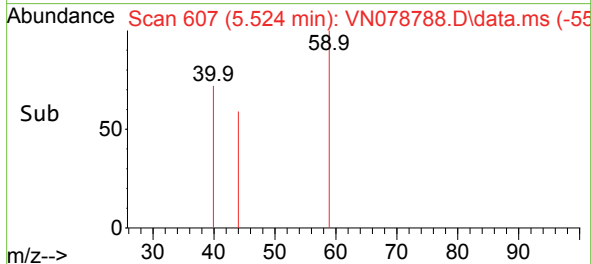
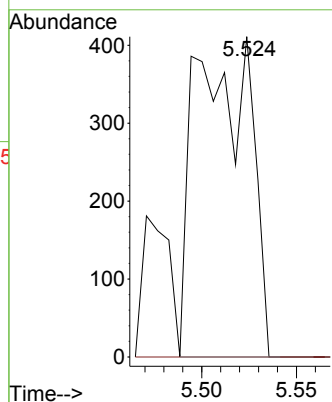
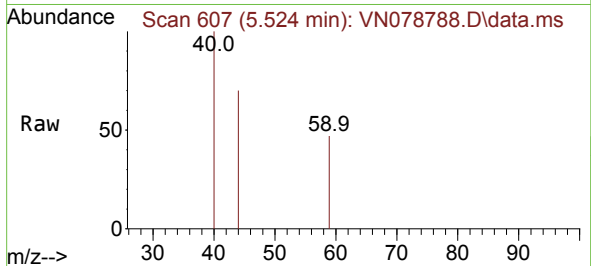




#11
Tert butyl alcohol
Concen: 2.440 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.018 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

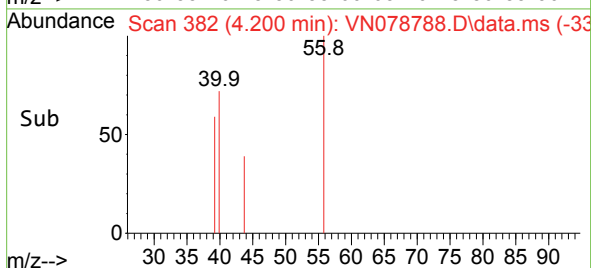
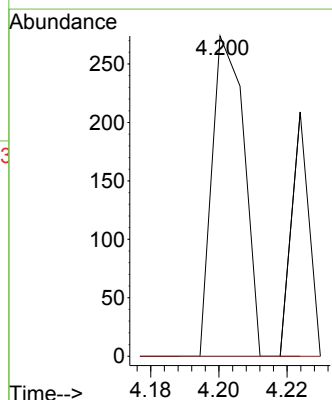
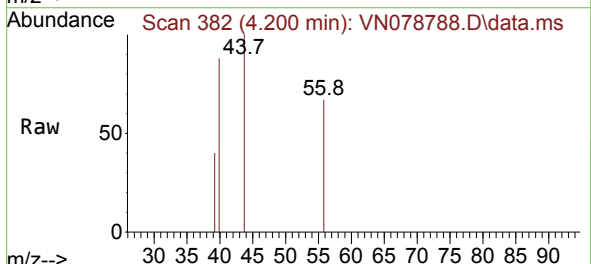
Instrument :
MSVOA_N
ClientSampleId :
IBLK

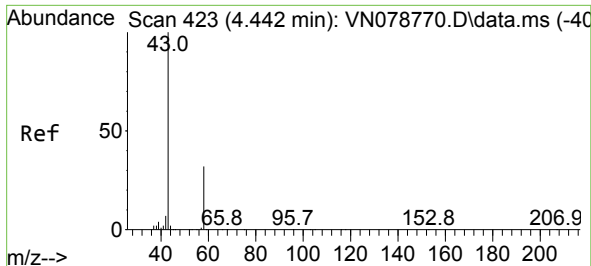
Tgt Ion: 59 Resp: 827
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.621 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.005 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 56 Resp: 178
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

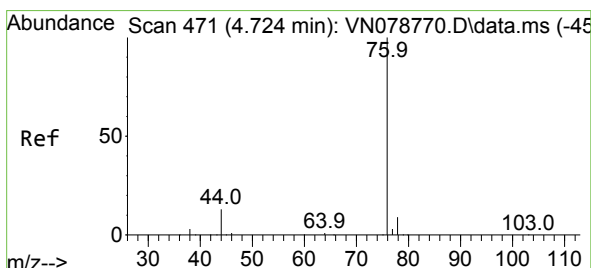
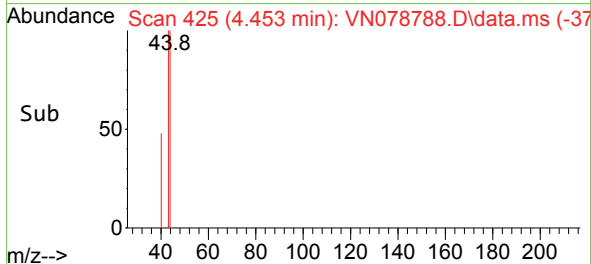
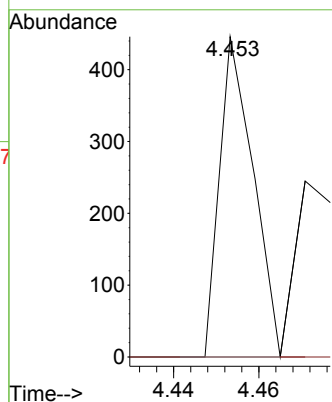
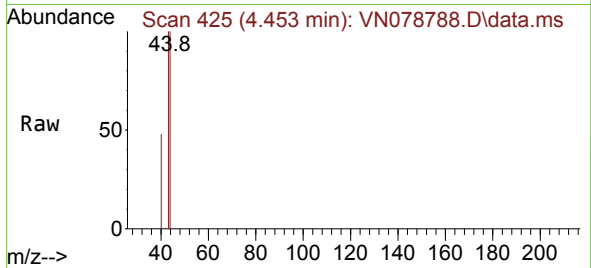




#16
Acetone
Concen: 0.330 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

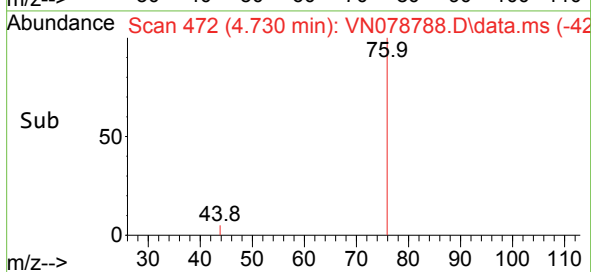
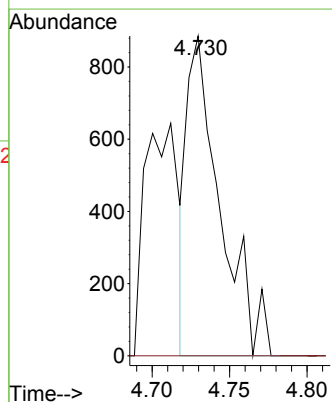
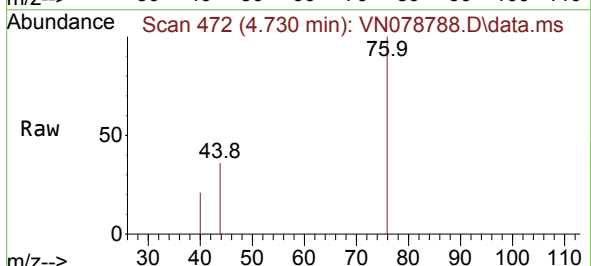
Instrument :
MSVOA_N
ClientSampleId :
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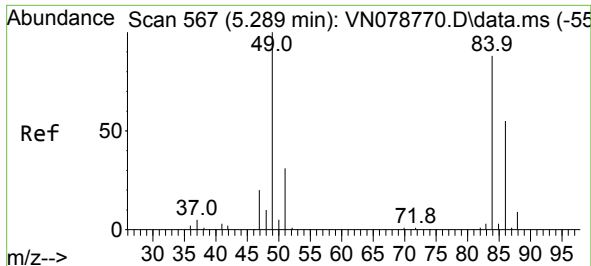
Tgt Ion: 43 Resp: 245
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.309 ug/l
RT: 4.730 min Scan# 472
Delta R.T. 0.006 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

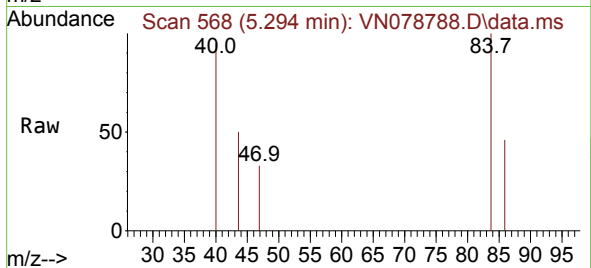
Tgt Ion: 76 Resp: 1328
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



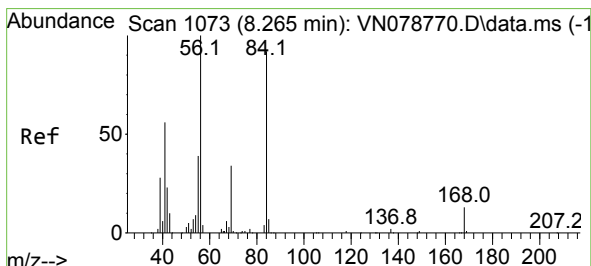
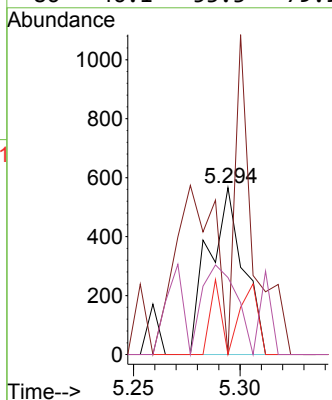
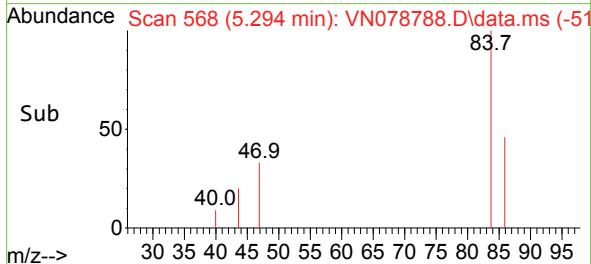


#20
Methylene Chloride
Concen: 0.347 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

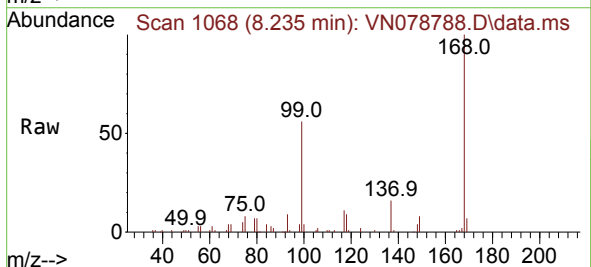
Instrument :
MSVOA_N
ClientSampleId :
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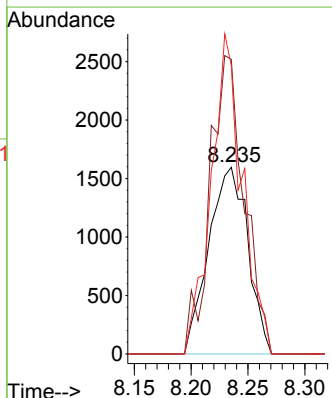
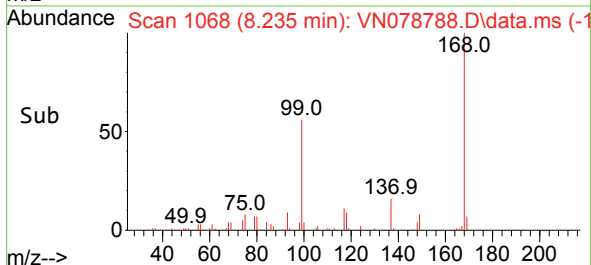
Tgt Ion:	84	Resp:	639
Ion	Ratio	Lower	Upper
84	100		
49	0.0	79.7	119.5#
51	0.0	25.2	37.8#
86	46.1	53.3	79.9#

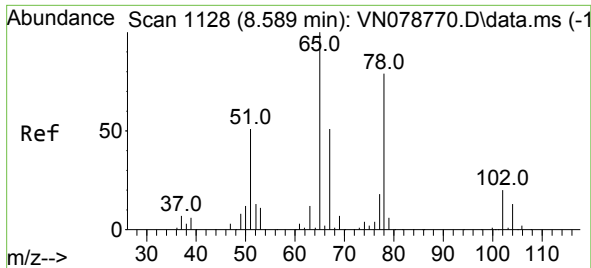


#31
Cyclohexane
Concen: 1.348 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53



Tgt Ion:	56	Resp:	3824
Ion	Ratio	Lower	Upper
56	100		
69	157.8	26.8	40.2#
84	154.4	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.251 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN078788.D

Acq: 07 Aug 2023 20:53

Instrument :

MSVOA_N

ClientSampleId :

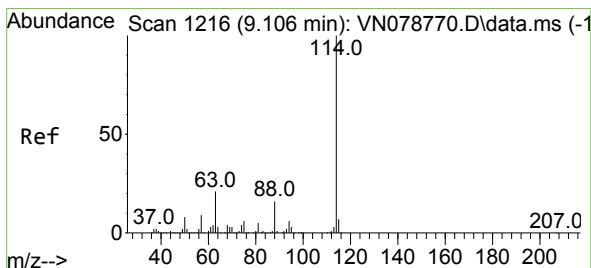
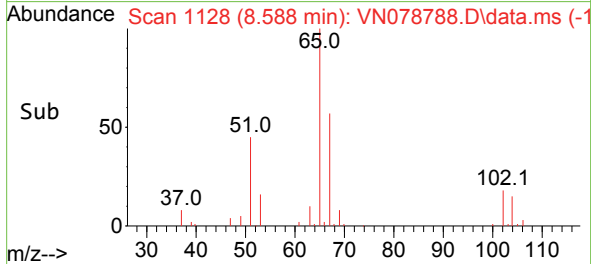
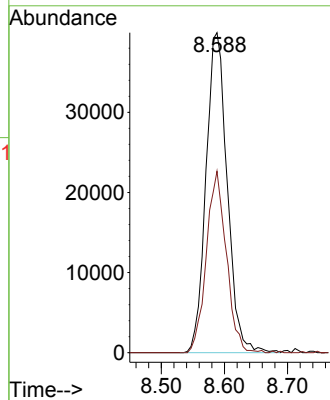
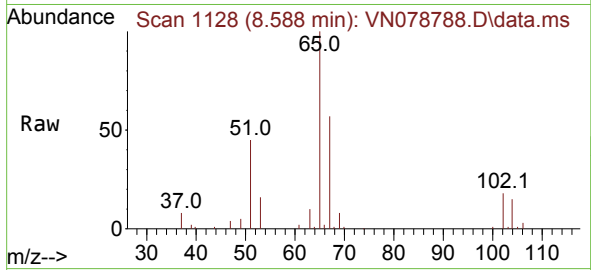
IBLK

Tgt Ion: 65 Resp: 93182

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078788.D

Acq: 07 Aug 2023 20:53

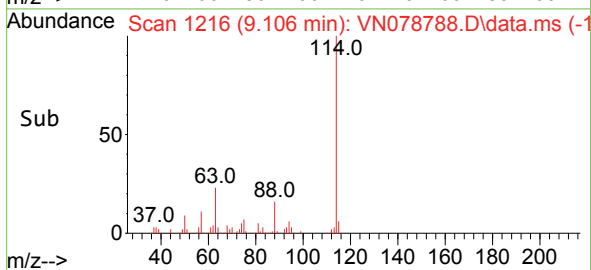
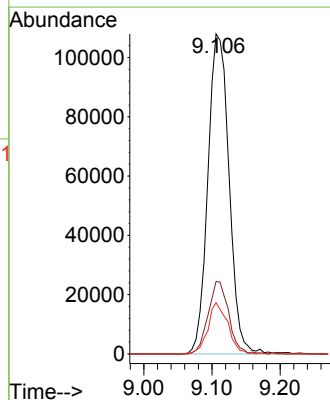
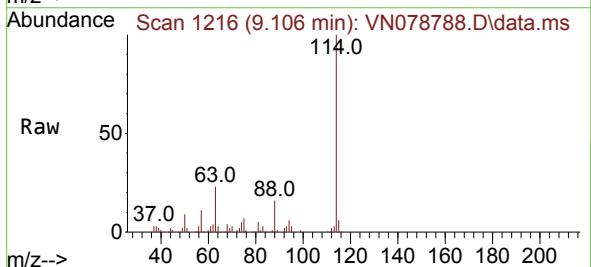
Tgt Ion: 114 Resp: 233893

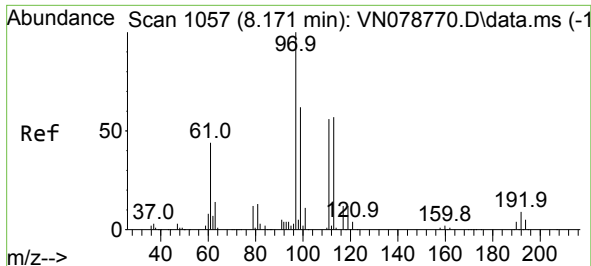
Ion Ratio Lower Upper

114 100

63 22.7 0.0 36.4

88 16.0 0.0 30.6

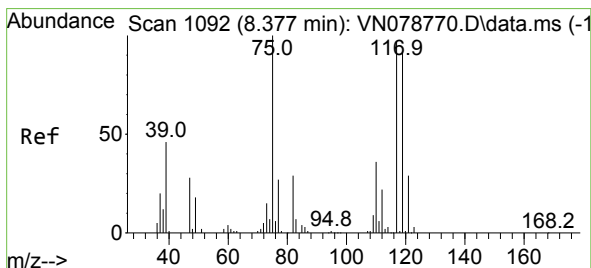
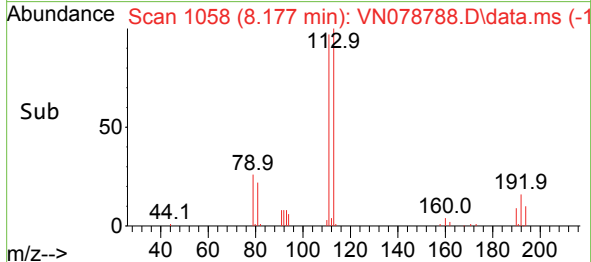
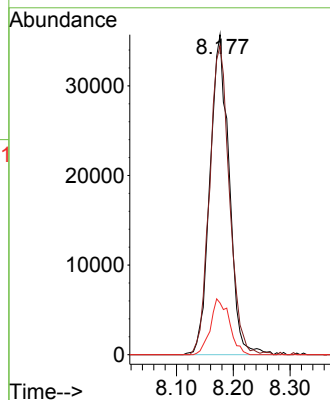
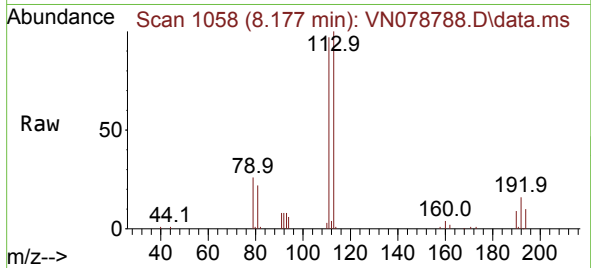




#35
 Dibromofluoromethane
 Concen: 52.901 ug/l
 RT: 8.177 min Scan# 1057
 Delta R.T. 0.006 min
 Lab File: VN078788.D
 Acq: 07 Aug 2023 20:53

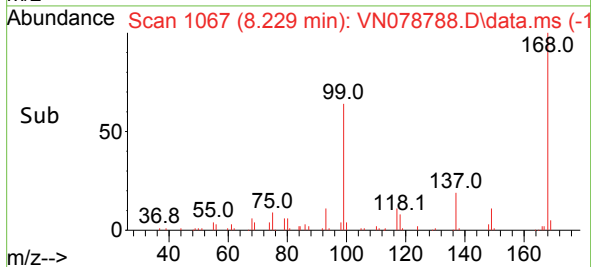
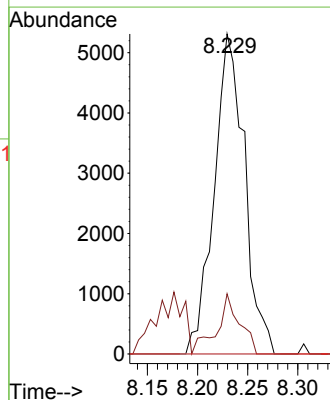
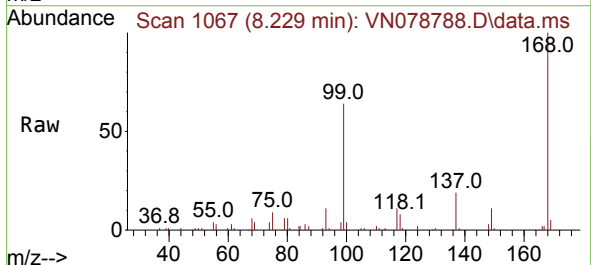
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

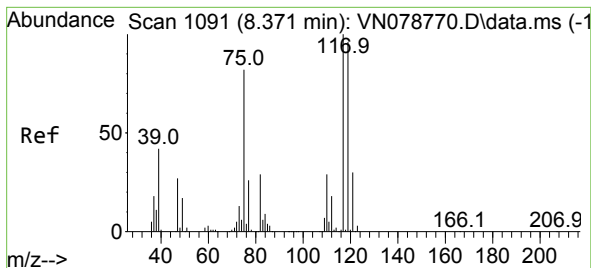
Tgt Ion:113 Resp: 83557
 Ion Ratio Lower Upper
 113 100
 111 99.6 82.6 123.8
 192 17.3 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.566 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078788.D
 Acq: 07 Aug 2023 20:53

Tgt Ion: 75 Resp: 11188
 Ion Ratio Lower Upper
 75 100
 110 13.4 19.1 57.3#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.847 ug/l

RT: 8.241 min Scan# 1109

Delta R.T. -0.130 min

Lab File: VN078788.D

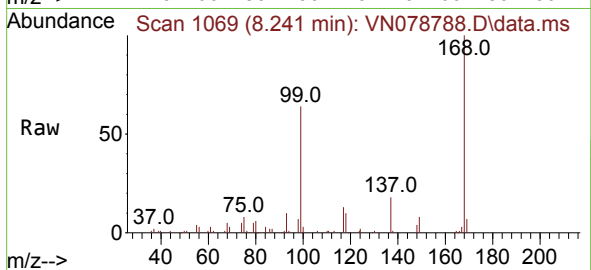
Acq: 07 Aug 2023 20:53

Instrument :

MSVOA_N

ClientSampleId :

IBLK



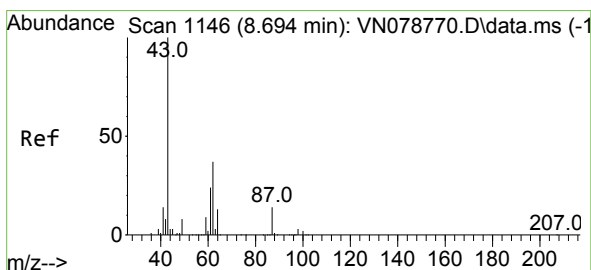
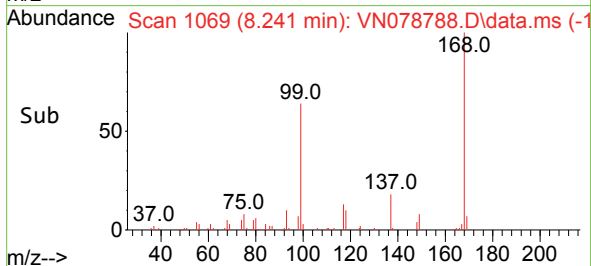
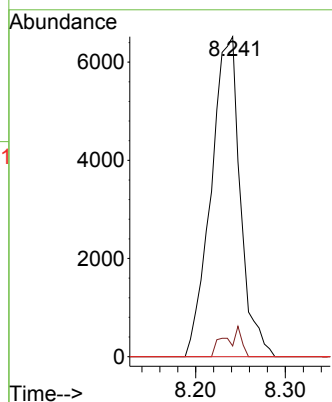
Tgt Ion:117 Resp: 14771

Ion Ratio Lower Upper

117 100

119 3.3 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.311 ug/l

RT: 8.771 min Scan# 1159

Delta R.T. 0.076 min

Lab File: VN078788.D

Acq: 07 Aug 2023 20:53

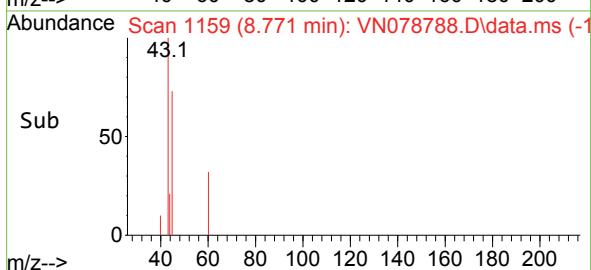
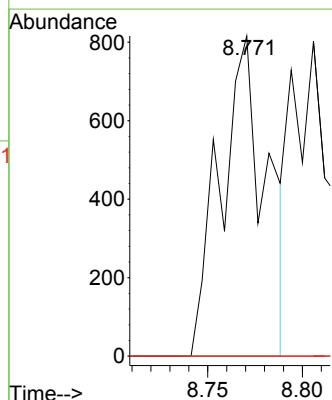
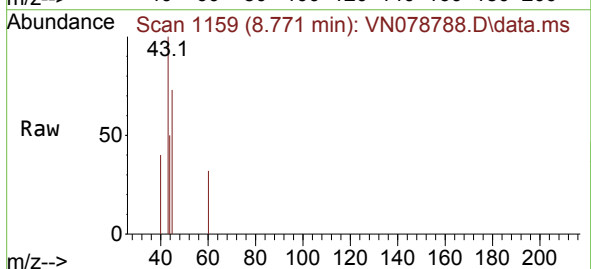
Tgt Ion: 43 Resp: 1368

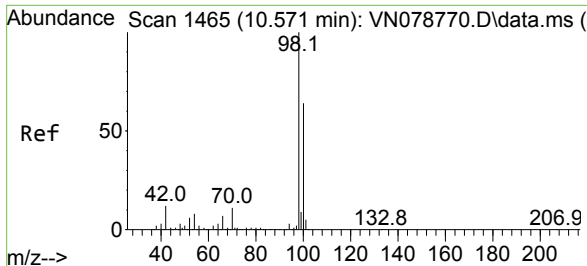
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

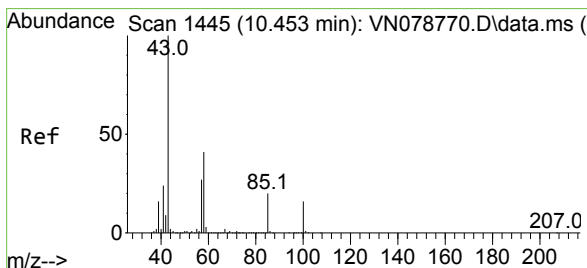
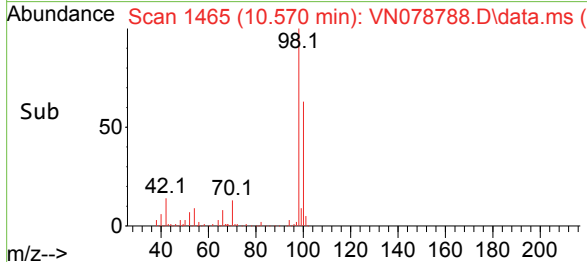
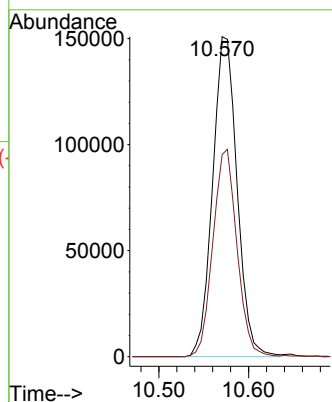
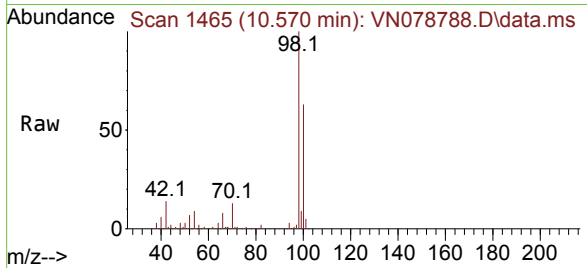




#50
Toluene-d8
Concen: 49.186 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

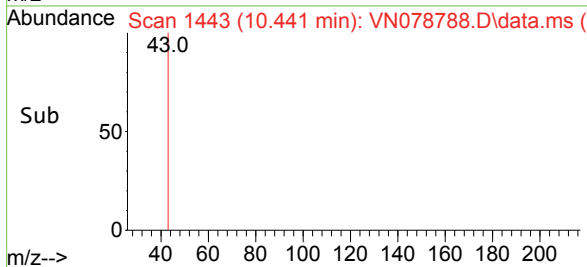
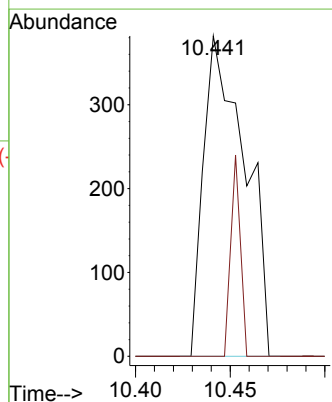
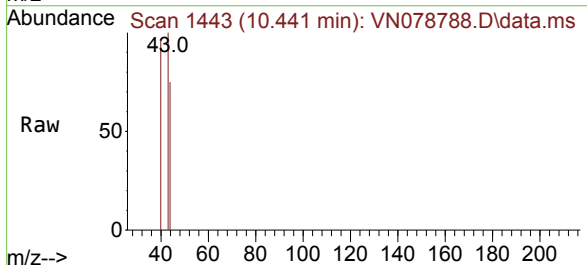
Instrument :
MSVOA_N
ClientSampleId :
IBLK

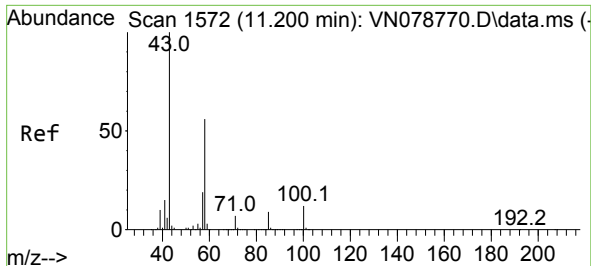
Tgt Ion: 98 Resp: 285896
Ion Ratio Lower Upper
98 100
100 63.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.216 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.012 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 43 Resp: 580
Ion Ratio Lower Upper
43 100
58 14.7 36.6 54.8#

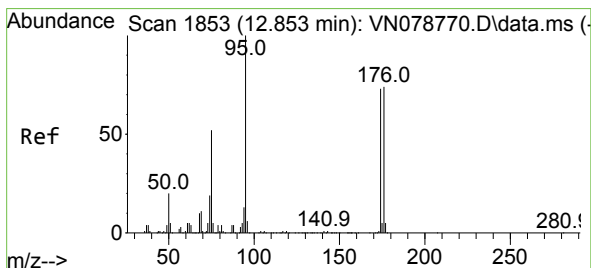
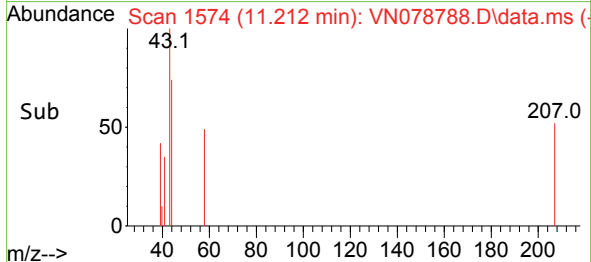
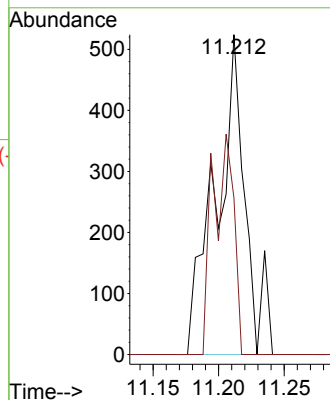
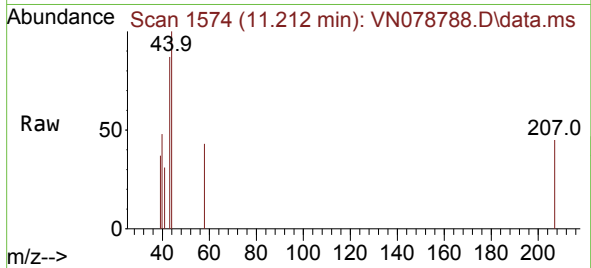




#59
2-Hexanone
Concen: 0.425 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

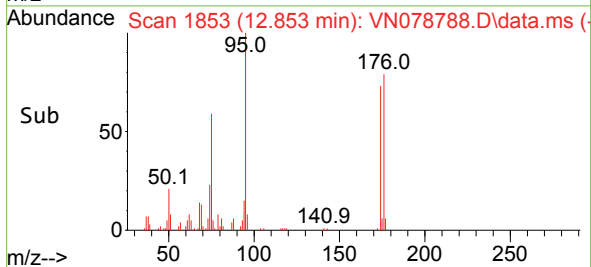
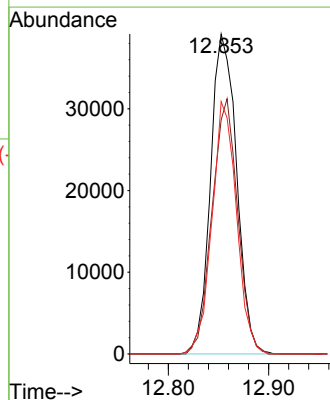
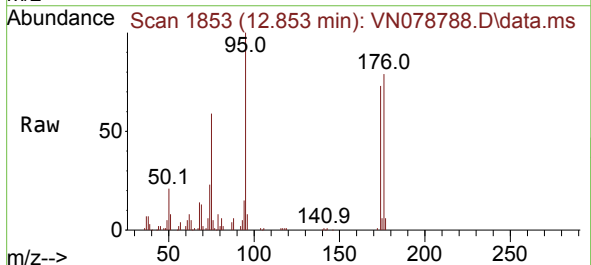
Instrument :
MSVOA_N
ClientSampleId :
IBLK

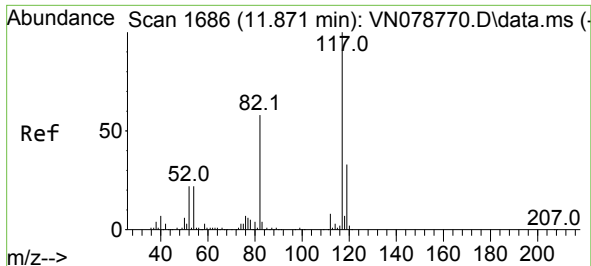
Tgt Ion: 43 Resp: 810
Ion Ratio Lower Upper
43 100
58 49.4 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 40.595 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 95 Resp: 70519
Ion Ratio Lower Upper
95 100
174 78.9 0.0 143.8
176 74.6 0.0 135.8

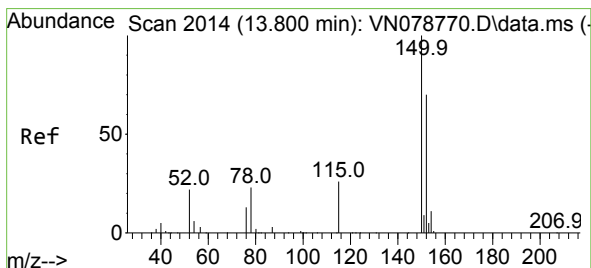
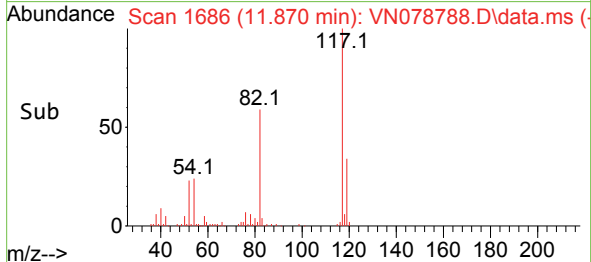
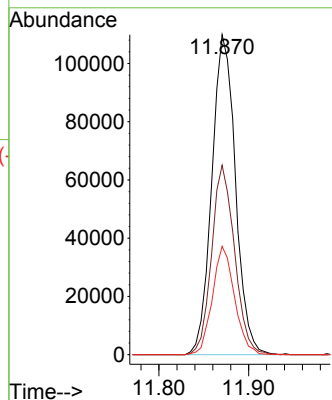
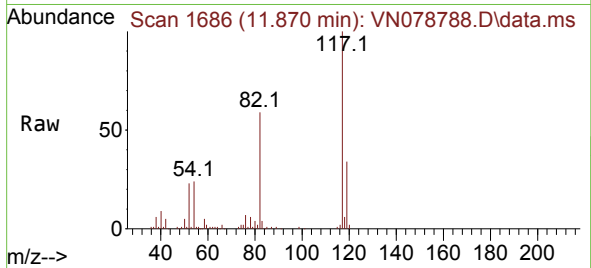




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

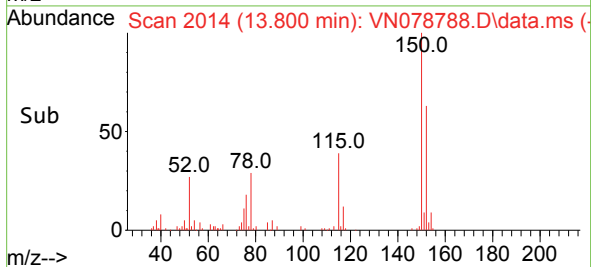
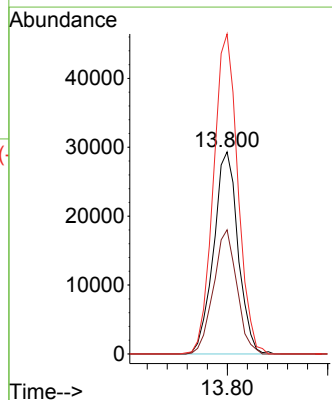
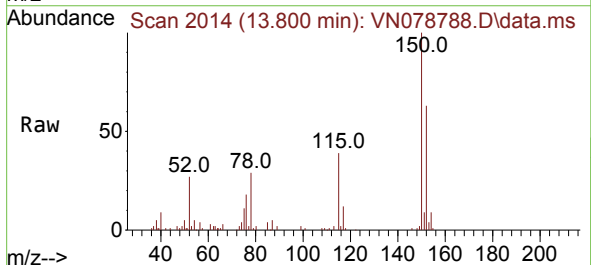
Instrument :
MSVOA_N
ClientSampleId :
IBLK

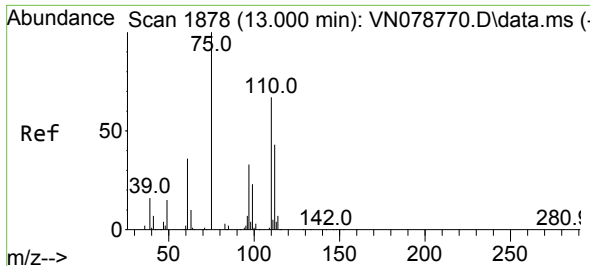
Tgt Ion:117 Resp: 200727
Ion Ratio Lower Upper
117 100
82 59.2 44.0 66.0
119 33.9 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion:152 Resp: 49502
Ion Ratio Lower Upper
152 100
115 58.9 32.3 96.8
150 157.9 0.0 355.8

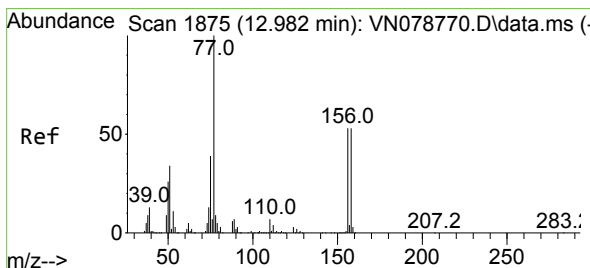
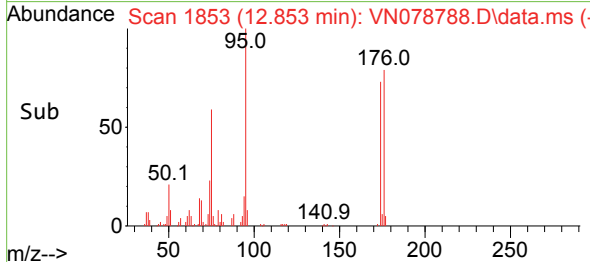
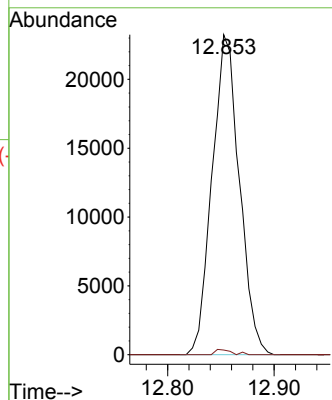
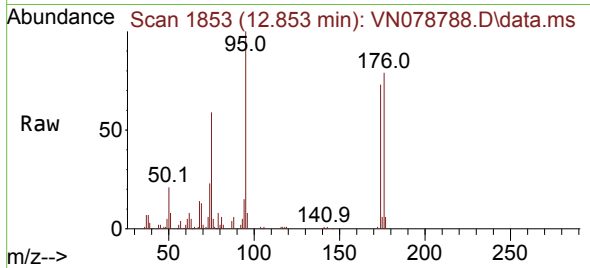




#76
1,2,3-Trichloropropane
Concen: 30.834 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

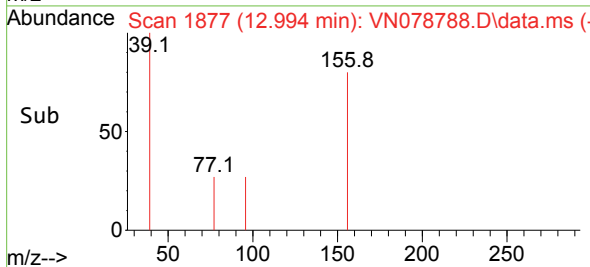
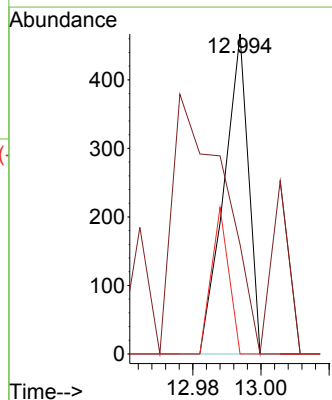
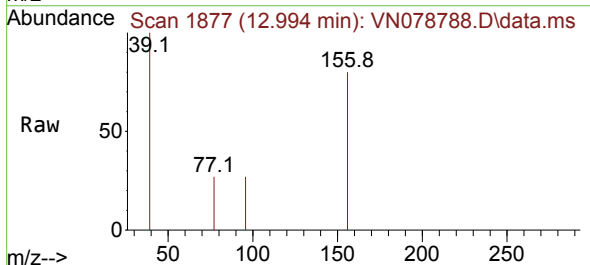
Instrument :
MSVOA_N
ClientSampleId :
IBLK

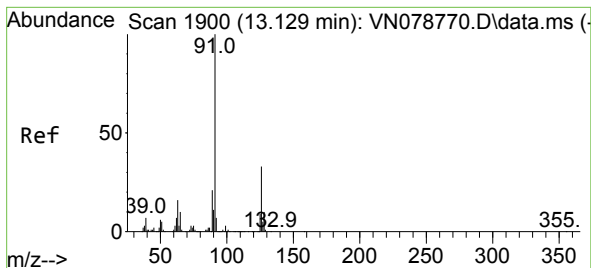
Tgt Ion: 75 Resp: 41267
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#77
Bromobenzene
Concen: 0.203 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.011 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 156 Resp: 232
Ion Ratio Lower Upper
156 100
77 198.7 107.7 323.3
158 32.8 48.4 145.3#

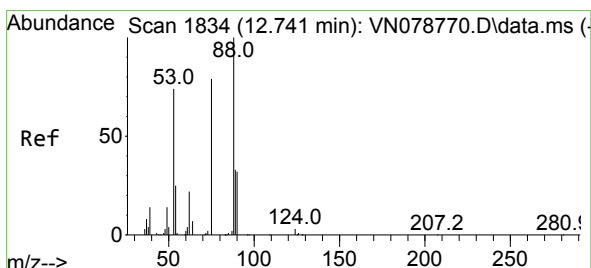
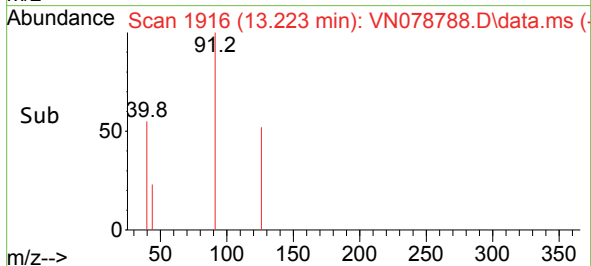
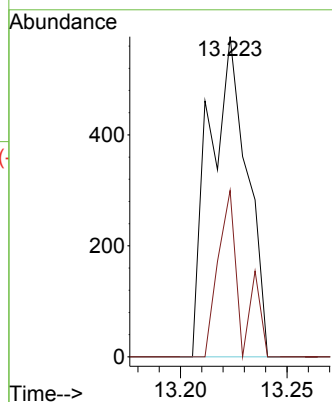
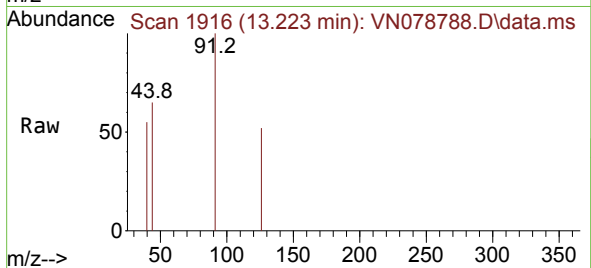




#79
2-Chlorotoluene
Concen: 0.207 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.094 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

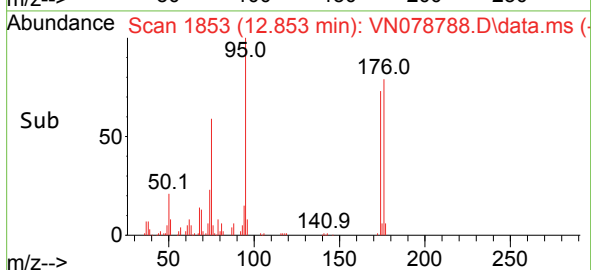
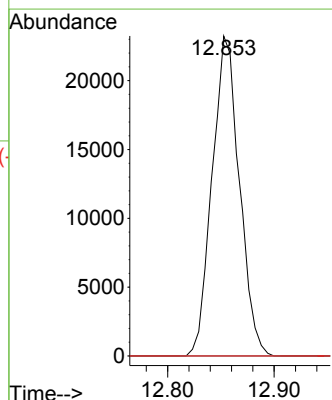
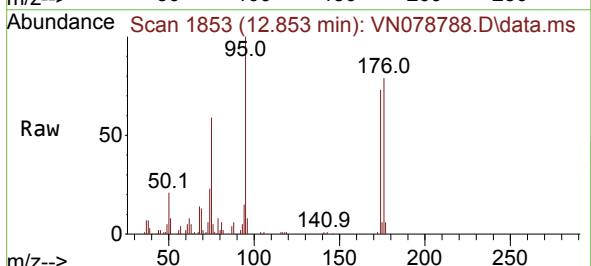
Instrument :
MSVOA_N
ClientSampleId :
IBLK

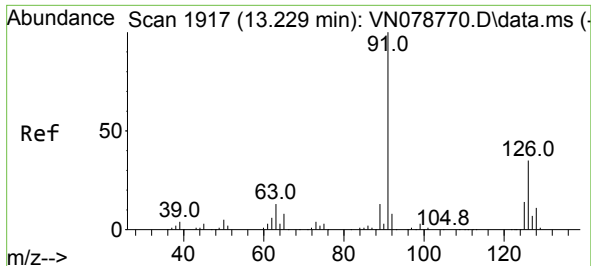
Tgt Ion: 91 Resp: 713
Ion Ratio Lower Upper
91 100
126 31.0 16.3 48.8



#81
trans-1,4-Dichloro-2-butene
Concen: 82.738 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.111 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 75 Resp: 41267
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

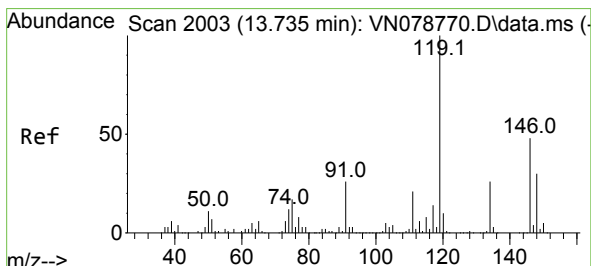
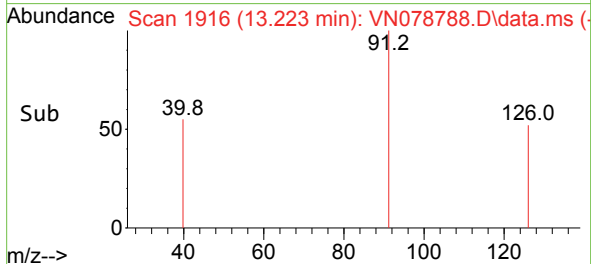
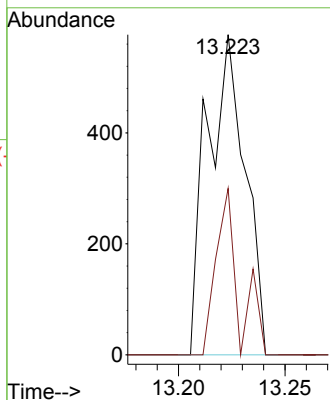
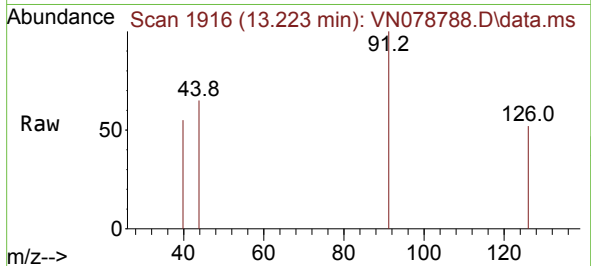




#82
4-Chlorotoluene
Concen: 0.227 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.006 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

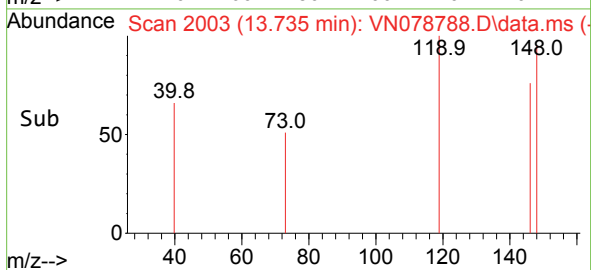
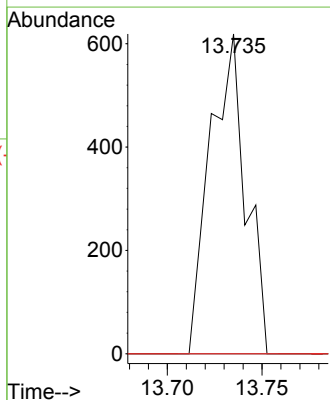
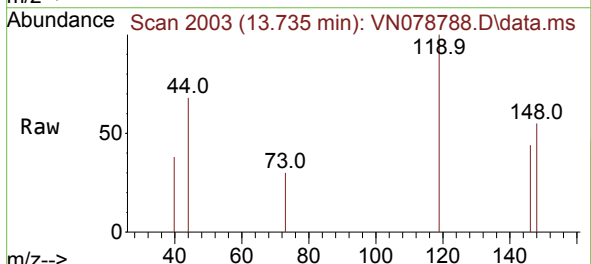
Instrument :
MSVOA_N
ClientSampleId :
IBLK

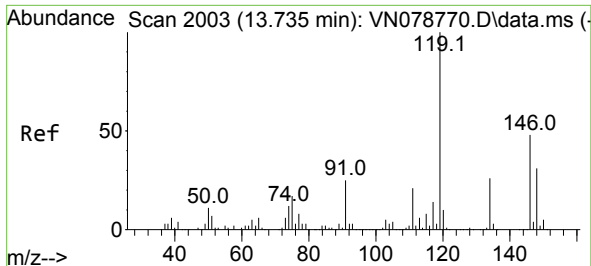
Tgt Ion: 91 Resp: 713
Ion Ratio Lower Upper
91 100
126 31.0 16.7 50.0



#86
p-Isopropyltoluene
Concen: 0.240 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 119 Resp: 812
Ion Ratio Lower Upper
119 100
134 0.0 12.6 37.8#
91 0.0 12.4 37.2#





#87

1,3-Dichlorobenzene

Concen: 0.251 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. 0.006 min

Lab File: VN078788.D

Acq: 07 Aug 2023 20:53

Instrument :

MSVOA_N

ClientSampleId :

IBLK

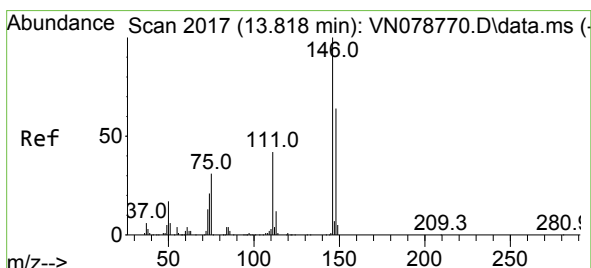
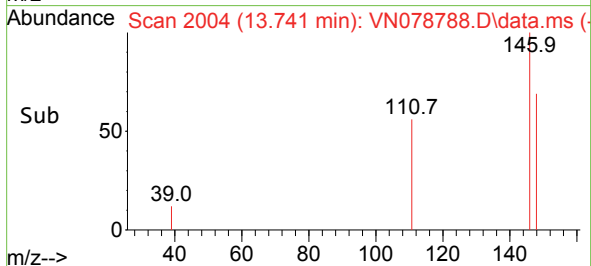
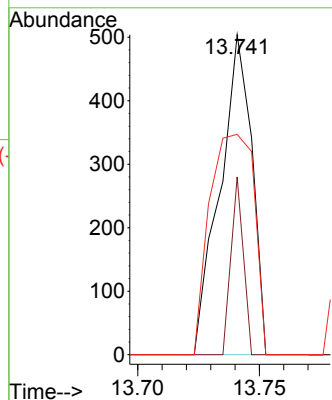
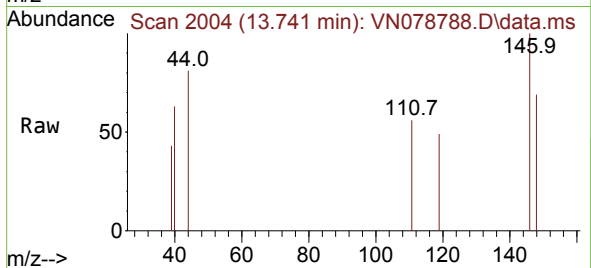
Tgt Ion:146 Resp: 459

Ion Ratio Lower Upper

146 100

111 21.6 22.1 66.3#

148 95.9 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.259 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.018 min

Lab File: VN078788.D

Acq: 07 Aug 2023 20:53

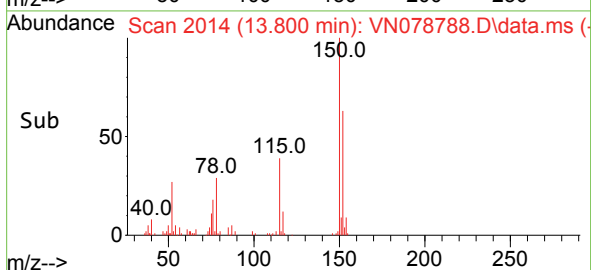
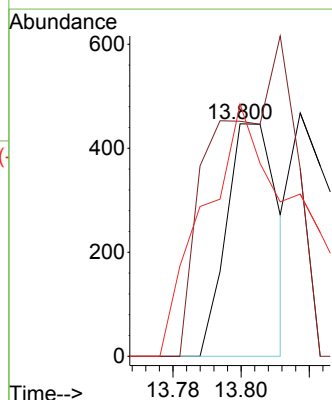
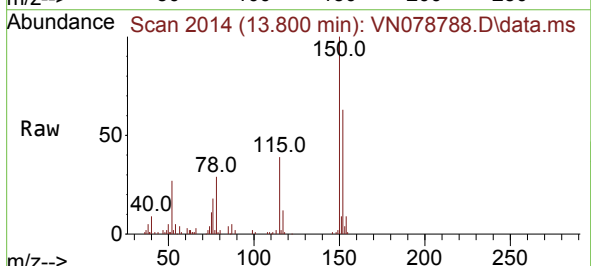
Tgt Ion:146 Resp: 469

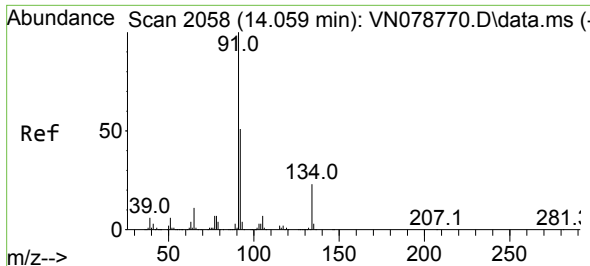
Ion Ratio Lower Upper

146 100

111 202.8 20.6 61.8#

148 210.9 31.6 94.8#

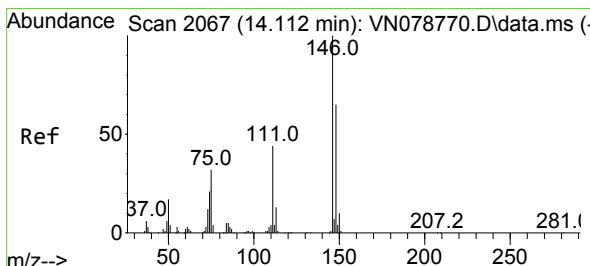
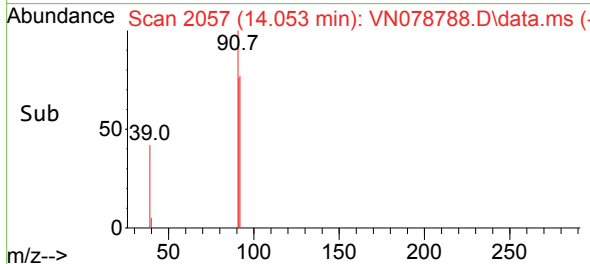
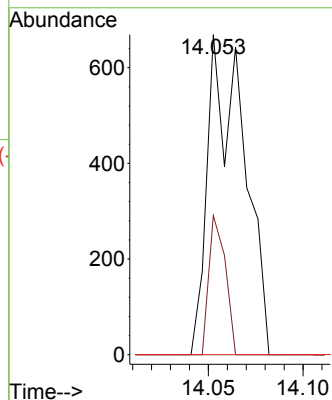
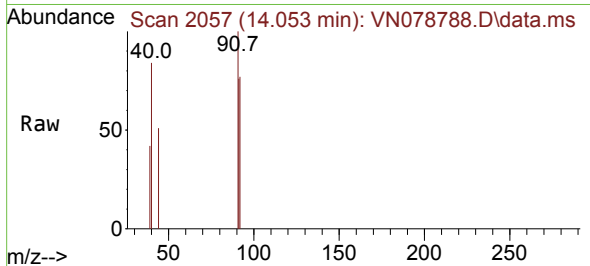




#89
n-Butylbenzene
Concen: 0.349 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

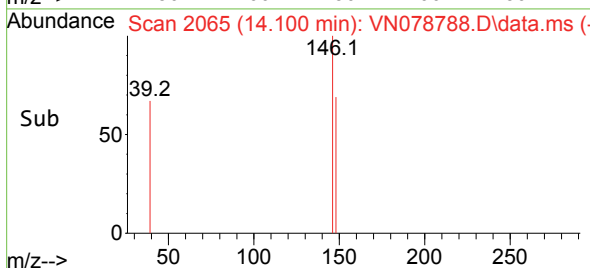
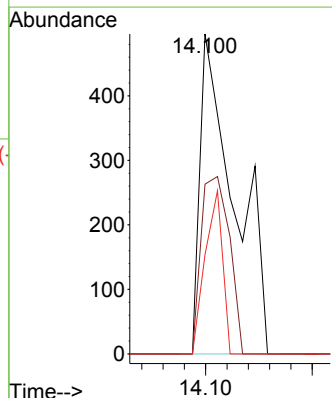
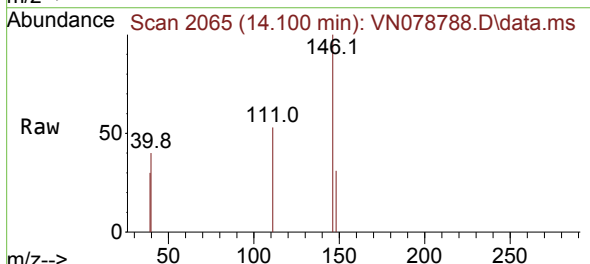
Instrument :
MSVOA_N
ClientSampleId :
IBLK

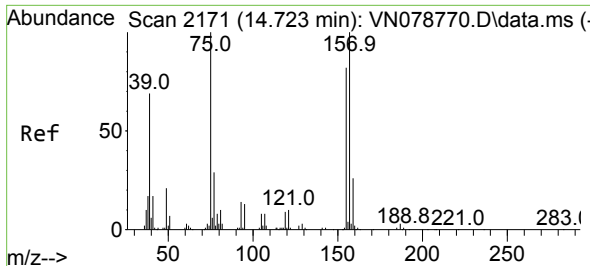
Tgt Ion: 91 Resp: 886
Ion Ratio Lower Upper
91 100
92 19.9 26.4 79.0#
134 0.0 12.6 37.6#



#91
1,2-Dichlorobenzene
Concen: 0.316 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.012 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

Tgt Ion: 146 Resp: 555
Ion Ratio Lower Upper
146 100
111 45.8 22.0 66.0
148 25.9 31.8 95.3#

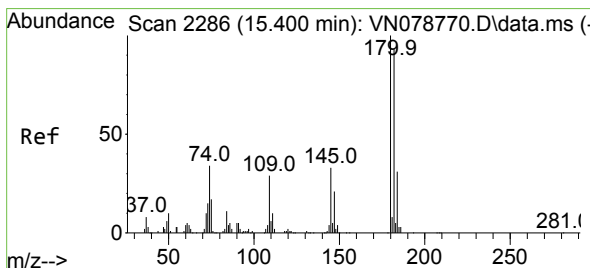
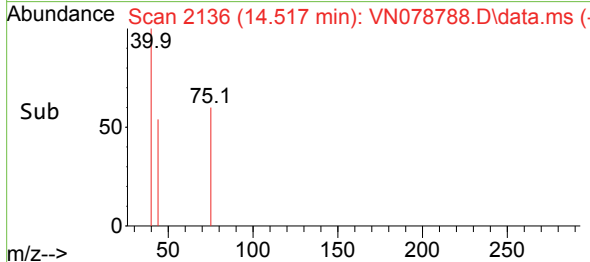
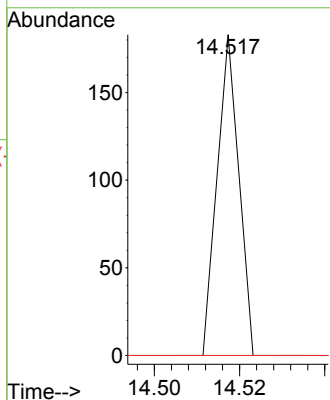
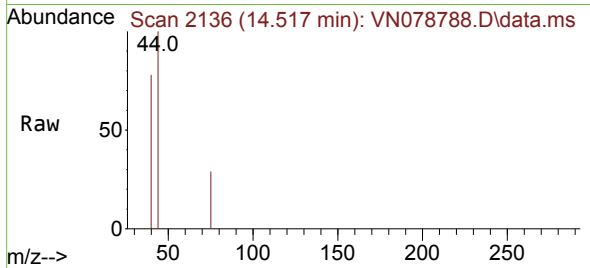




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.256 ug/l
 RT: 14.517 min Scan# 2171
 Delta R.T. -0.206 min
 Lab File: VN078788.D
 Acq: 07 Aug 2023 20:53

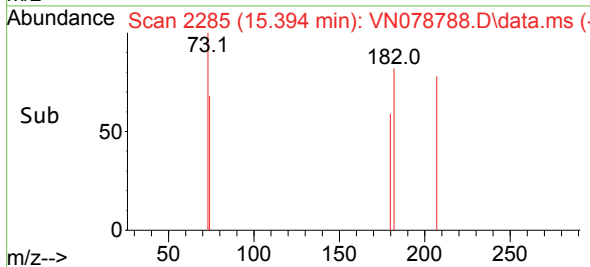
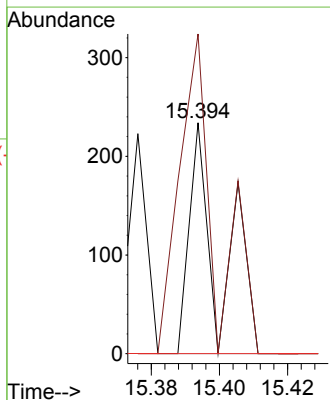
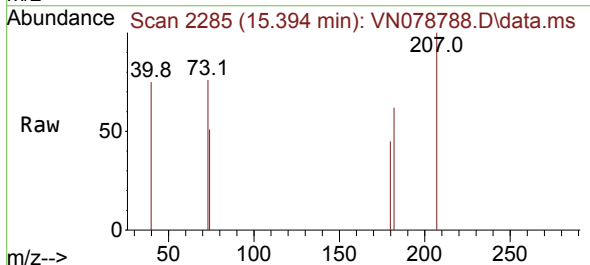
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

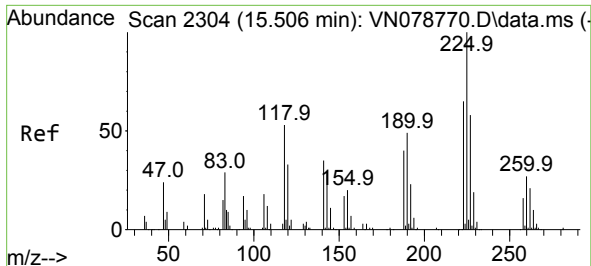
Tgt Ion: 75 Resp: 65
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.1 117.2#
 157 0.0 50.3 150.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.291 ug/l
 RT: 15.394 min Scan# 2285
 Delta R.T. -0.006 min
 Lab File: VN078788.D
 Acq: 07 Aug 2023 20:53

Tgt Ion: 180 Resp: 144
 Ion Ratio Lower Upper
 180 100
 182 165.3 46.1 138.2#
 145 0.0 16.6 49.8#

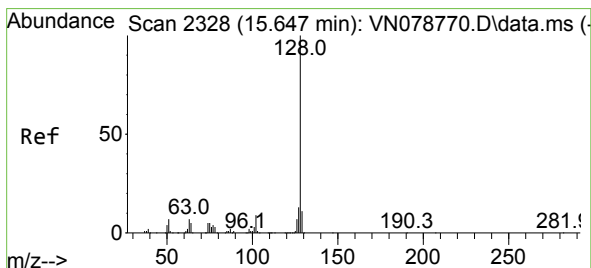
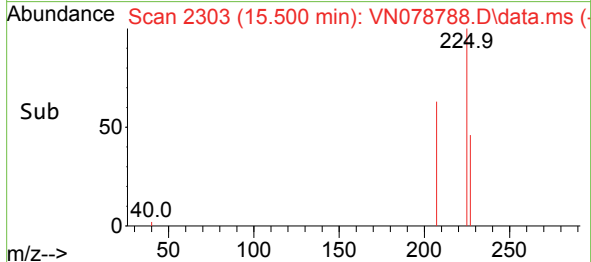
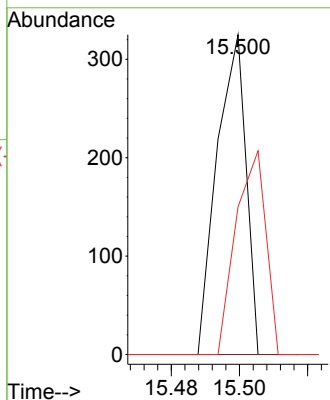
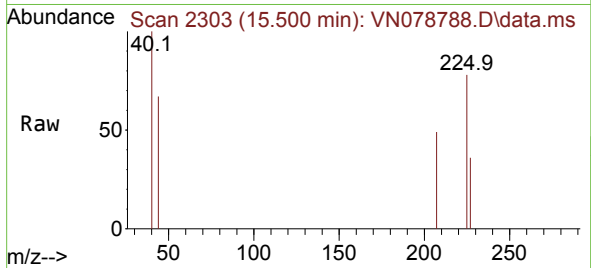




#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.500 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

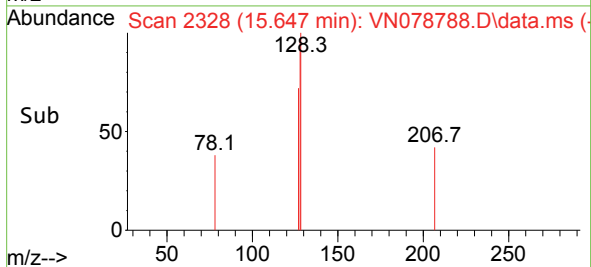
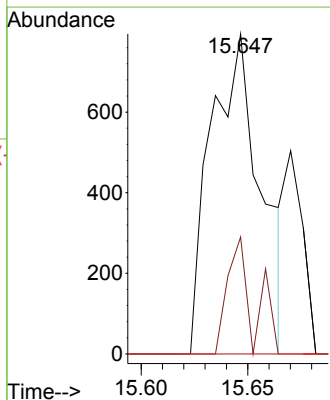
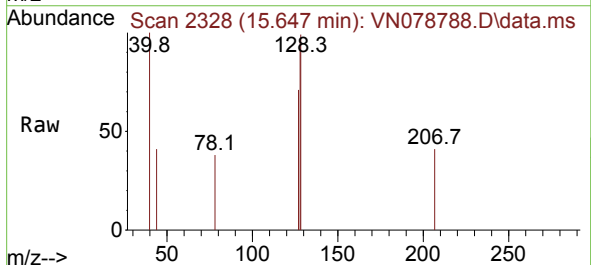
Instrument :
MSVOA_N
ClientSampleId :
IBLK

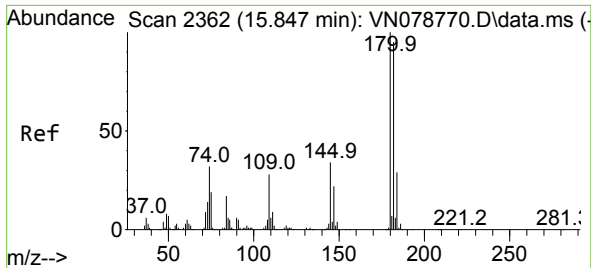
Tgt Ion:225 Resp: 192
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.8#
227 65.6 31.9 95.9



#95
Naphthalene
Concen: 0.785 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078788.D
Acq: 07 Aug 2023 20:53

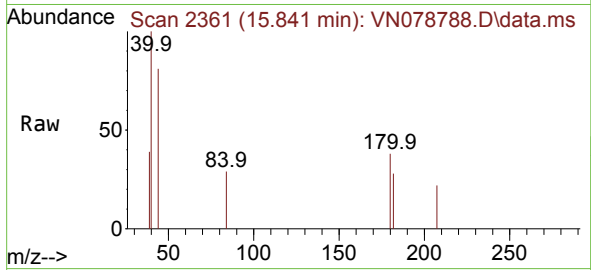
Tgt Ion:128 Resp: 1295
Ion Ratio Lower Upper
128 100
127 18.9 10.0 15.0#
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.433 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN078788.D
 Acq: 07 Aug 2023 20:53

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:180 Resp: 255
 Ion Ratio Lower Upper
 180 100
 182 98.0 46.2 138.6
 145 0.0 17.5 52.6#

