

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072023\
 Data File : VN078591.D
 Acq On : 20 Jul 2023 13:45
 Operator : JC\MD
 Sample : 03670-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

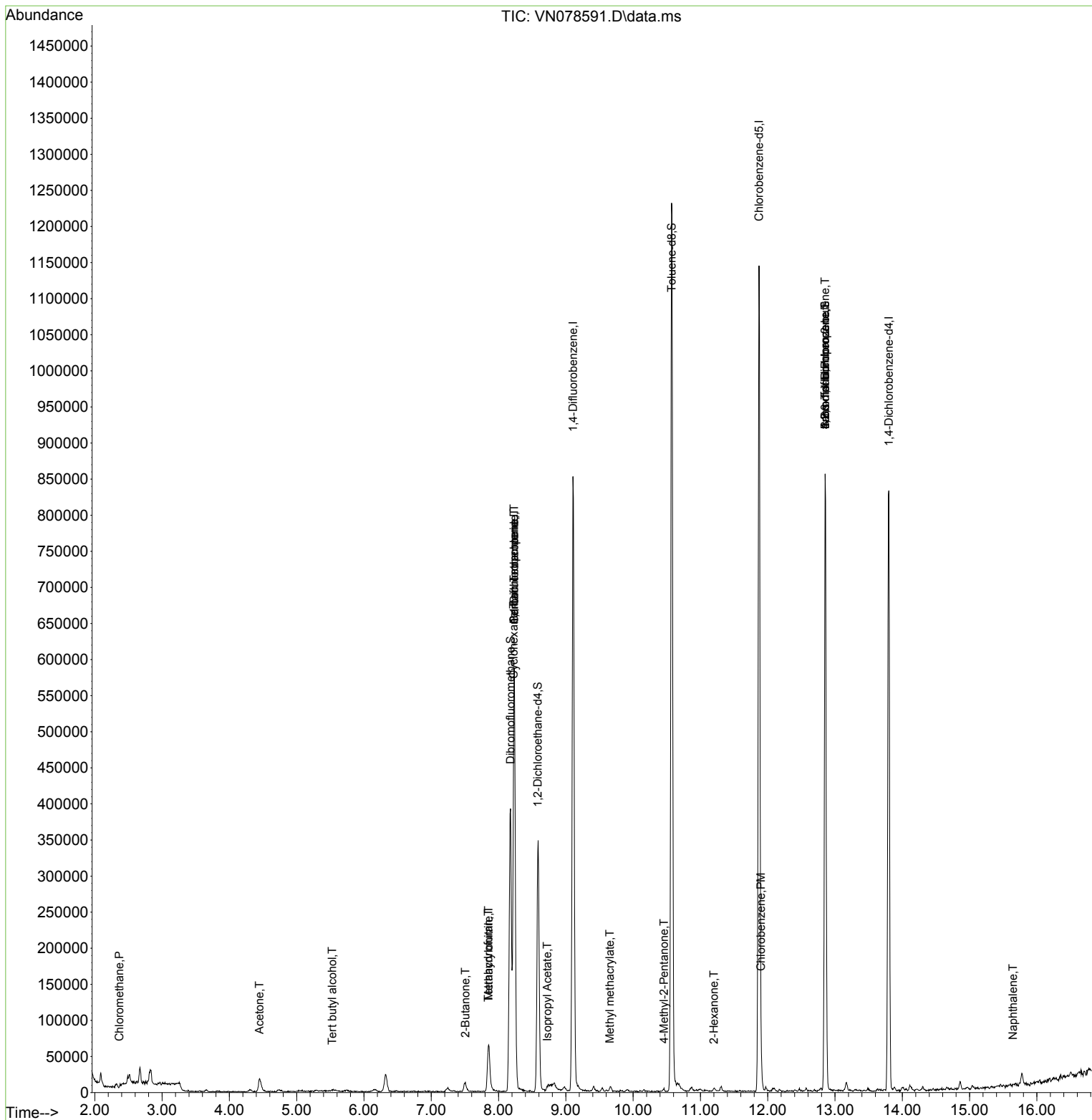
Quant Time: Jul 21 06:11:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

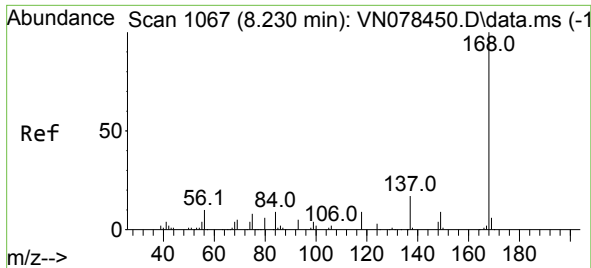
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	436715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	762734	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	706649	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	243323	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	281891	48.148	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.300%
35) Dibromofluoromethane	8.177	113	285186	55.080	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	110.160%
50) Toluene-d8	10.571	98	911176	46.584	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.160%
62) 4-Bromofluorobenzene	12.853	95	305980	50.787	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.580%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1860	0.320	ug/l #	77
5) Bromomethane	2.959	94	1828	Below Cal	#	61
6) Chloroethane	3.142	64	320	Below Cal	#	43
11) Tert butyl alcohol	5.530	59	1422	1.575	ug/l #	72
16) Acetone	4.448	43	34295	18.805	ug/l	90
20) Methylene Chloride	5.265	84	407	Below Cal	#	76
25) 2-Butanone	7.506	43	20861	7.267	ug/l	99
29) Tetrahydrofuran	7.847	42	48951	25.986	ug/l #	82
31) Cyclohexane	8.224	56	11037	1.395	ug/l #	38
36) 1,1-Dichloropropene	8.230	75	34741	4.647	ug/l #	49
38) Carbon Tetrachloride	8.230	117	46823	5.763	ug/l #	15
41) Methacrylonitrile	7.853	41	28925	9.104	ug/l #	34
43) Isopropyl Acetate	8.724	43	3897	0.380	ug/l #	49
48) Methyl methacrylate	9.653	41	1393	0.293	ug/l #	29
51) 4-Methyl-2-Pentanone	10.459	43	2981	0.488	ug/l	92
59) 2-Hexanone	11.200	43	2690	0.620	ug/l	80
65) Chlorobenzene	11.900	112	5764	0.365	ug/l #	76
71) Bromoform	12.853	173	2178	0.529	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.929	83	149	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	158755	26.993	ug/l #	1
77) Bromobenzene	12.988	156	57	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	158755	70.932	ug/l #	15
90) Hexachloroethane	14.453	117	400	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.553	75	72	Below Cal	#	1
94) Hexachlorobutadiene	15.512	225	221	Below Cal	#	37
95) Naphthalene	15.647	128	3103	0.326	ug/l #	79

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

Quant Time: Jul 21 06:11:29 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

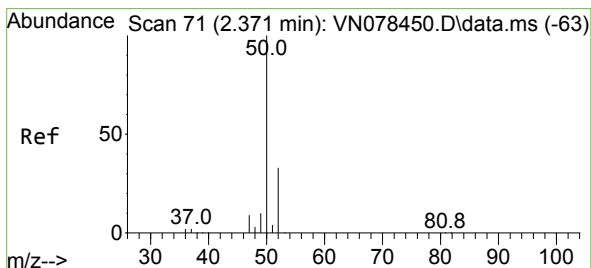
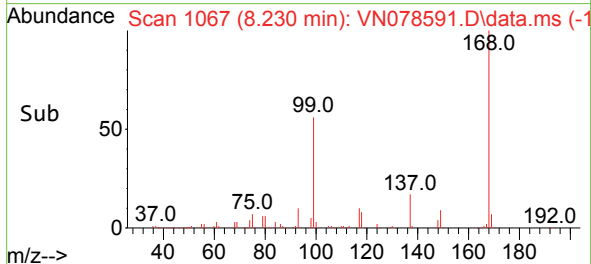
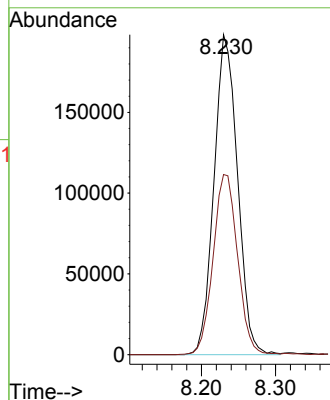
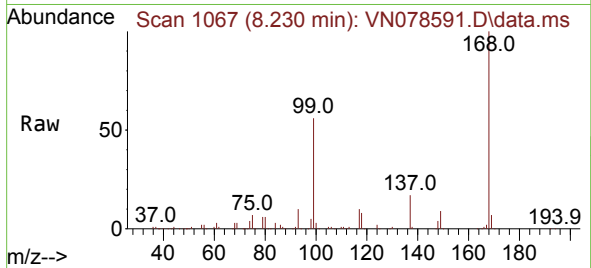




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

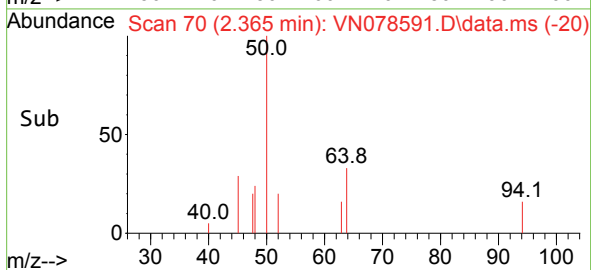
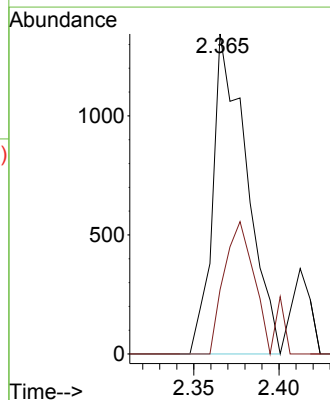
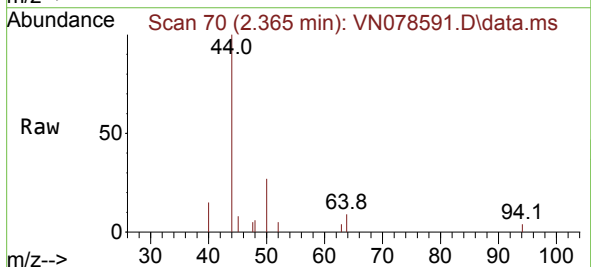
Instrument :
MSVOA_N
ClientSampleId :

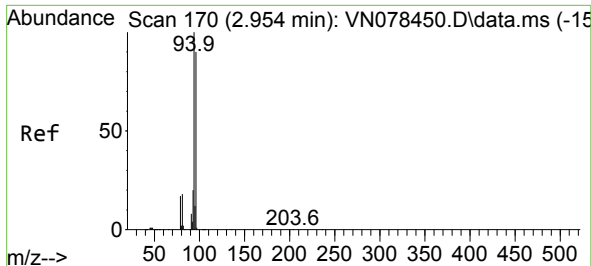
Tgt Ion:168 Resp: 436715
Ion Ratio Lower Upper
168 100
99 56.2 53.0 79.6



#3
Chloromethane
Concen: 0.320 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Tgt Ion: 50 Resp: 1860
Ion Ratio Lower Upper
50 100
52 20.1 26.5 39.7#

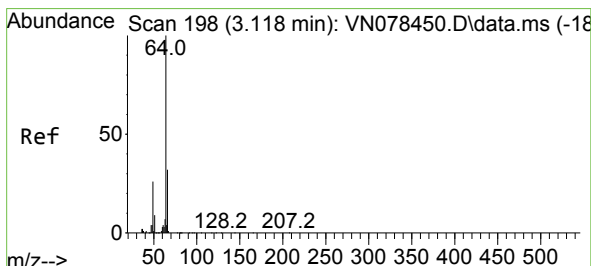
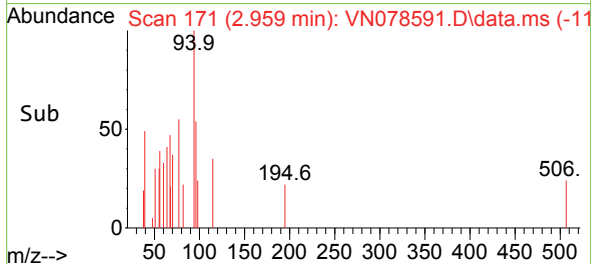
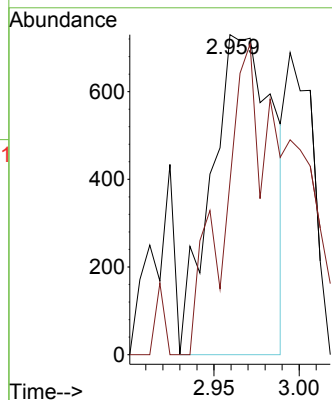
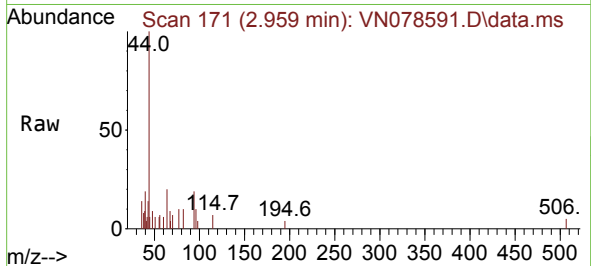




#5
Bromomethane
Concen: Below Cal
RT: 2.959 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

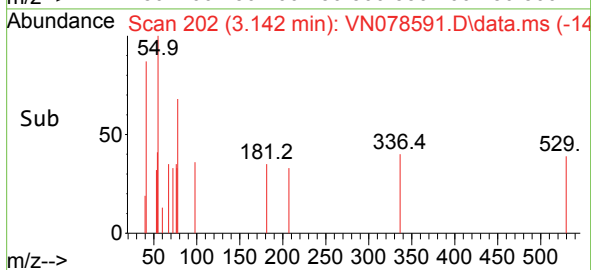
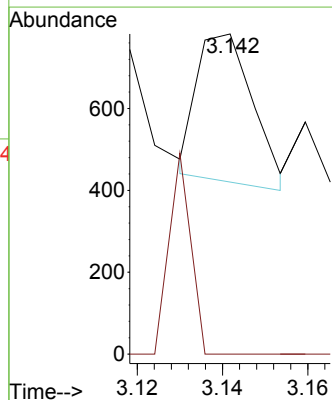
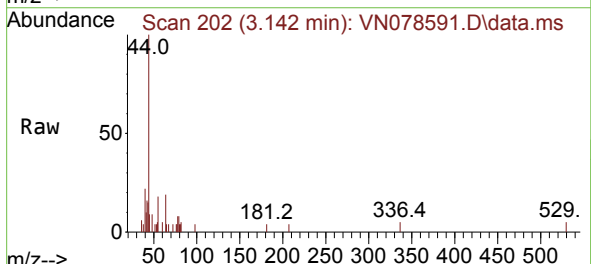
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MSVOA_N
ClientSampleId :

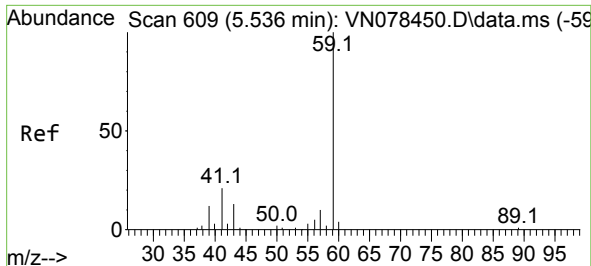
Tgt Ion: 94 Resp: 1828
Ion Ratio Lower Upper
94 100
96 54.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

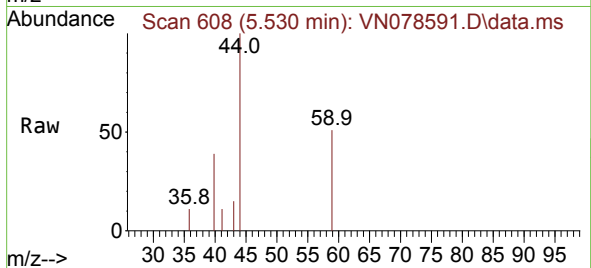
Tgt Ion: 64 Resp: 320
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



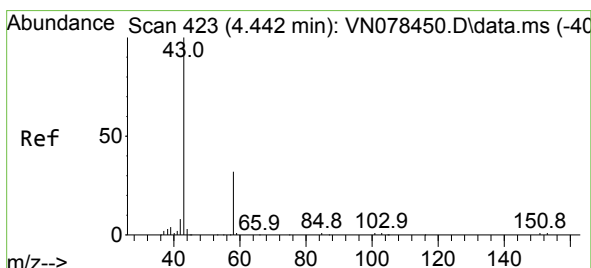
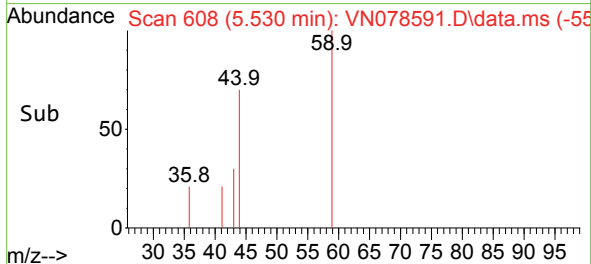
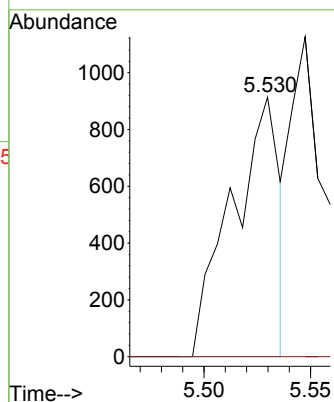


#11
Tert butyl alcohol
Concen: 1.575 ug/l
RT: 5.530 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Instrument :
MSVOA_N
ClientSampleId :

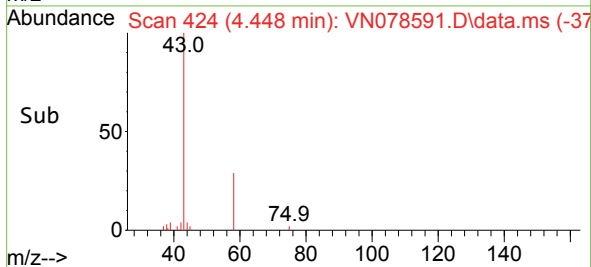
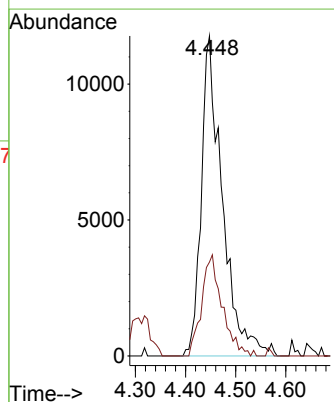
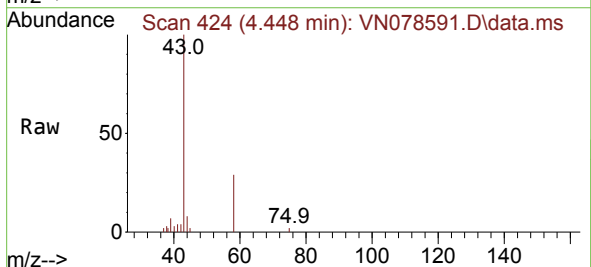


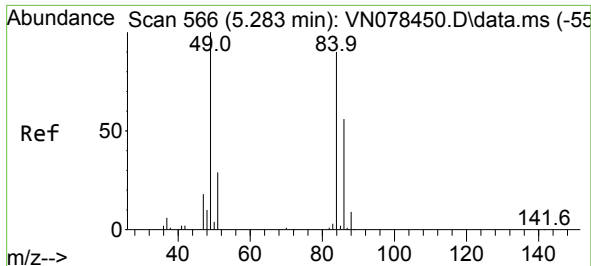
Tgt Ion: 59 Resp: 1422
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 18.805 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.006 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

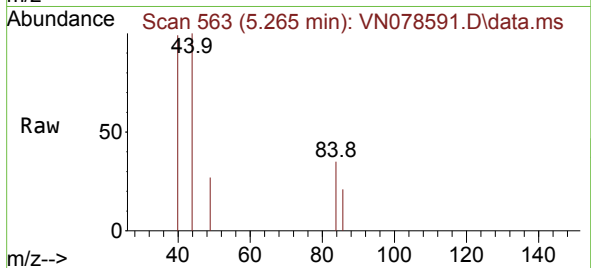
Tgt Ion: 43 Resp: 34295
Ion Ratio Lower Upper
43 100
58 29.3 28.0 42.0



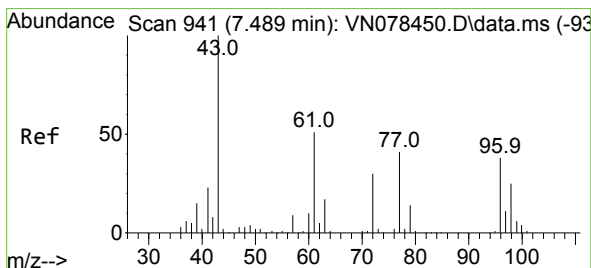
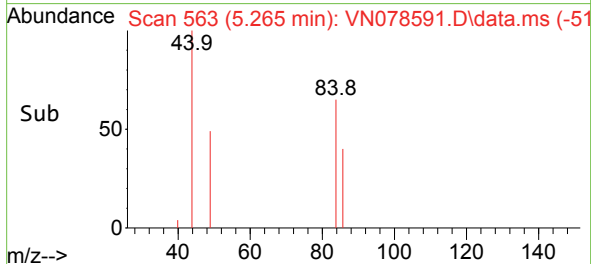
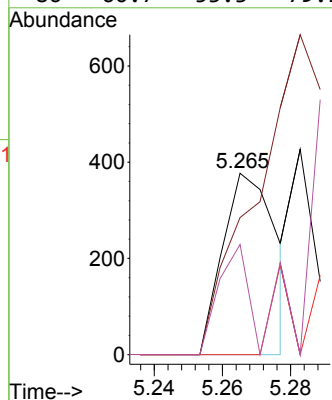


#20
Methylene Chloride
Concen: Below Cal
RT: 5.265 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Instrument :
MSVOA_N
ClientSampleId :

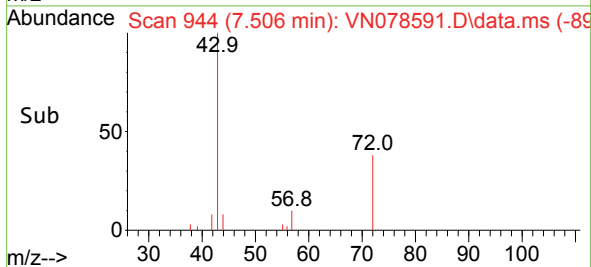
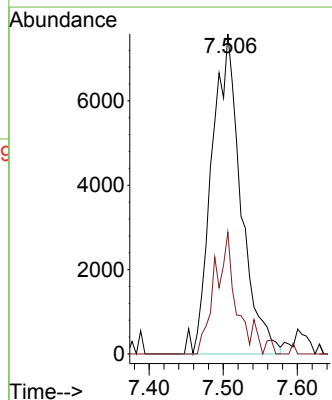
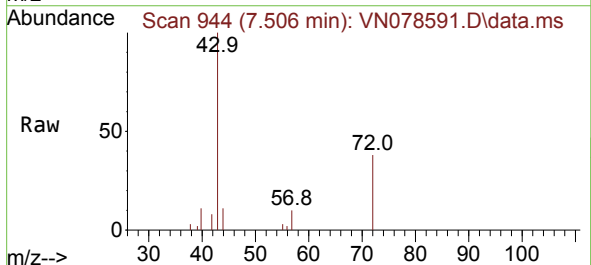


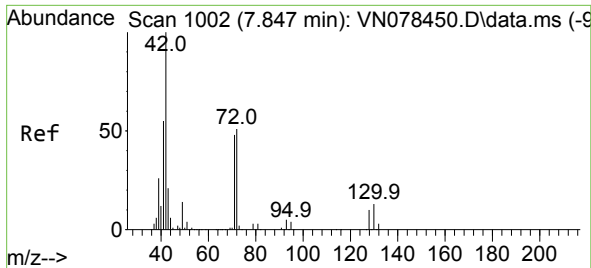
Tgt Ion:	84	Resp:	407
Ion	Ratio	Lower	Upper
84	100		
49	75.6	79.7	119.5#
51	0.0	25.2	37.8#
86	60.7	53.3	79.9



#25
2-Butanone
Concen: 7.267 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Tgt Ion:	43	Resp:	20861
Ion	Ratio	Lower	Upper
43	100		
72	38.1	30.2	45.2

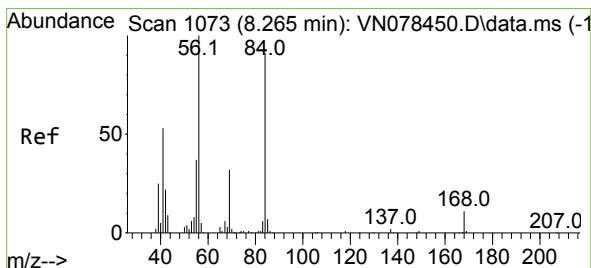
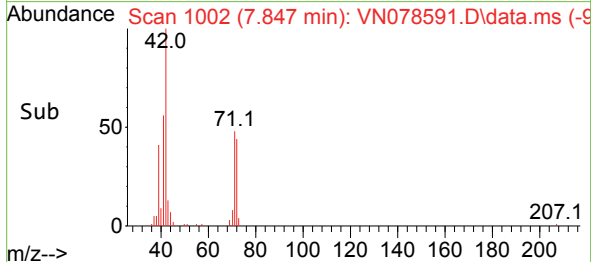
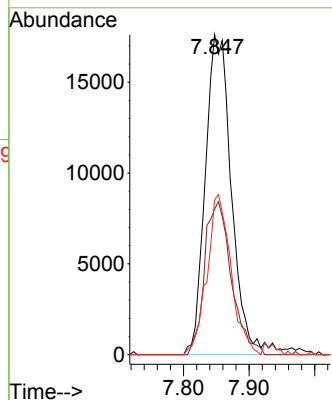
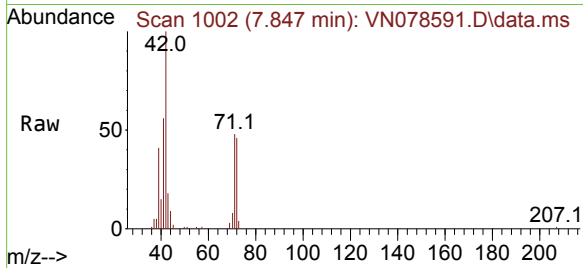




#29
Tetrahydrofuran
Concen: 25.986 ug/l
RT: 7.847 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

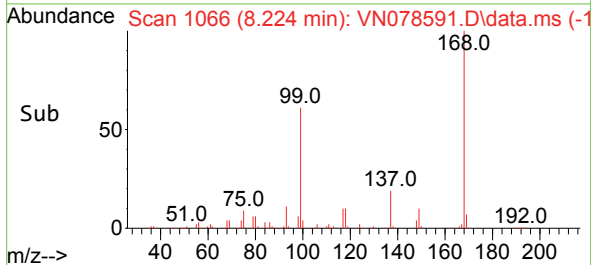
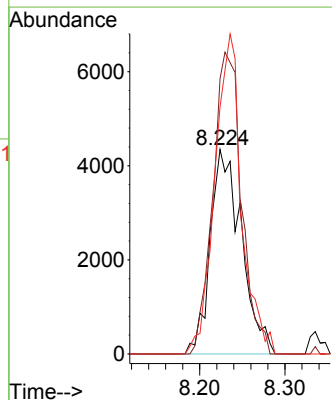
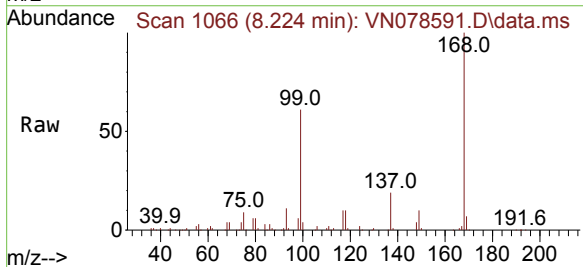
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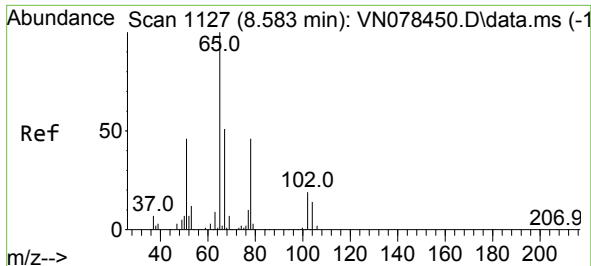
Tgt Ion: 42 Resp: 48951
Ion Ratio Lower Upper
42 100
72 48.6 49.8 74.6#
71 45.9 47.4 71.2#



#31
Cyclohexane
Concen: 1.395 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Tgt Ion: 56 Resp: 11037
Ion Ratio Lower Upper
56 100
69 134.5 26.8 40.2#
84 126.6 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.148 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078591.D

Acq: 20 Jul 2023 13:45

Instrument :

MSVOA_N

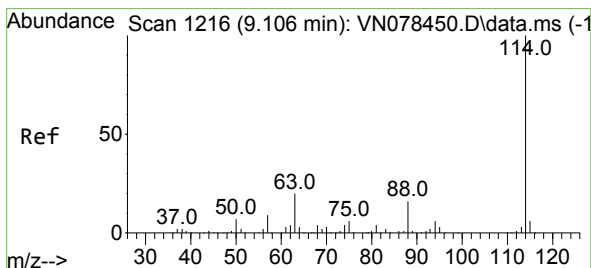
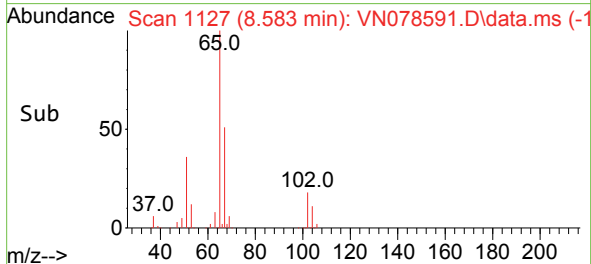
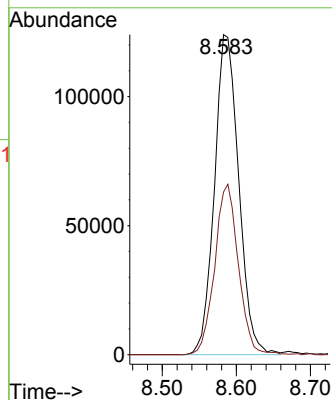
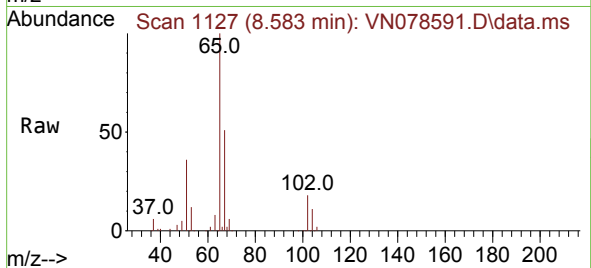
ClientSampleId :

Tgt Ion: 65 Resp: 281891

Ion Ratio Lower Upper

65 100

67 52.0 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: VN078591.D

Acq: 20 Jul 2023 13:45

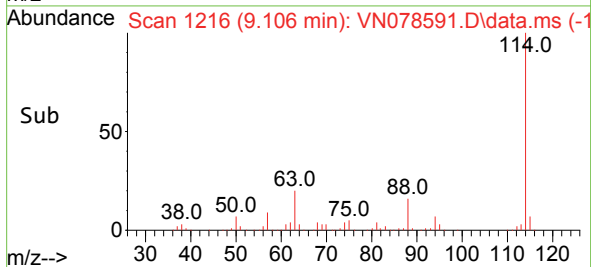
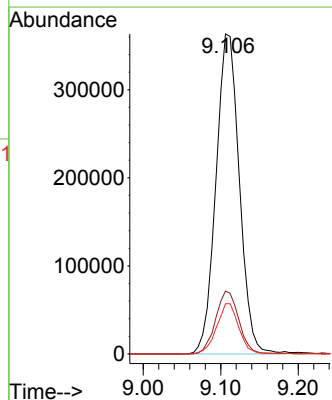
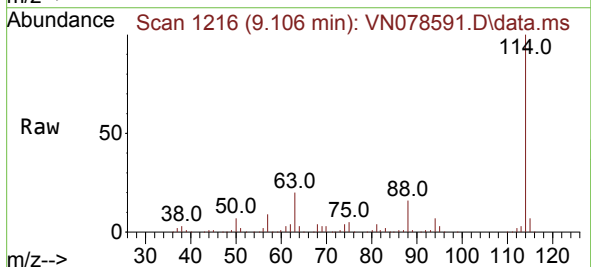
Tgt Ion: 114 Resp: 762734

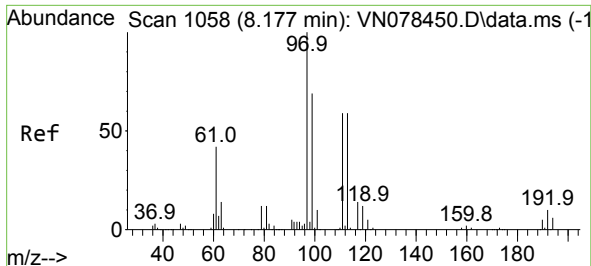
Ion Ratio Lower Upper

114 100

63 19.6 0.0 36.4

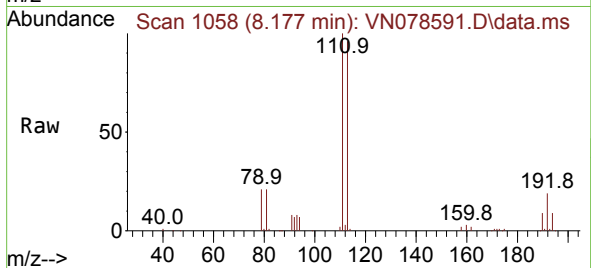
88 15.7 0.0 30.6



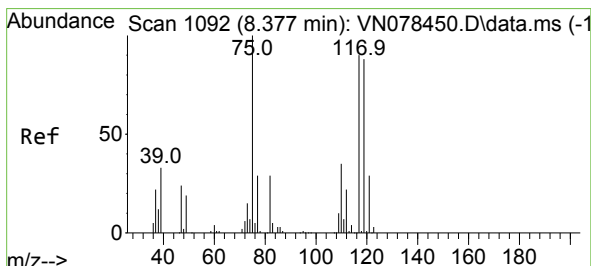
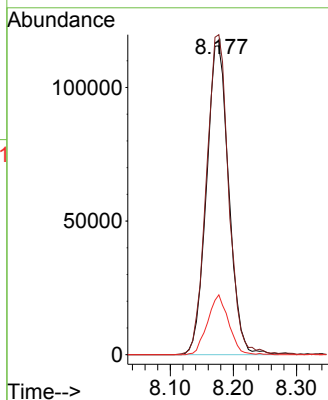
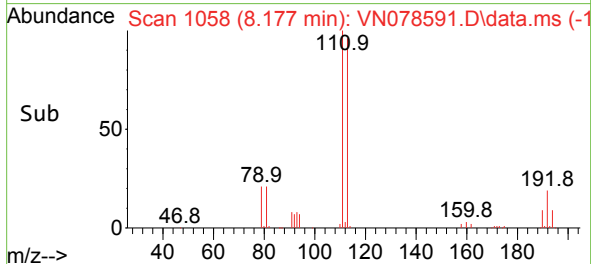


#35
Dibromofluoromethane
Concen: 55.080 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Instrument :
MSVOA_N
ClientSampleId :

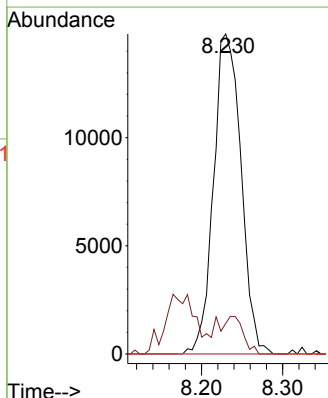
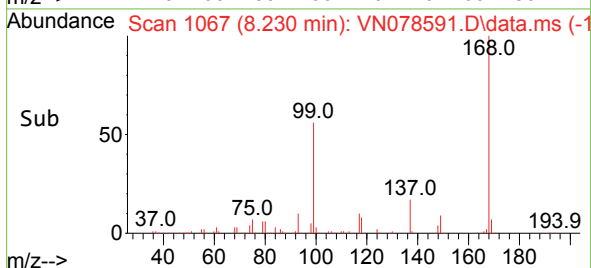
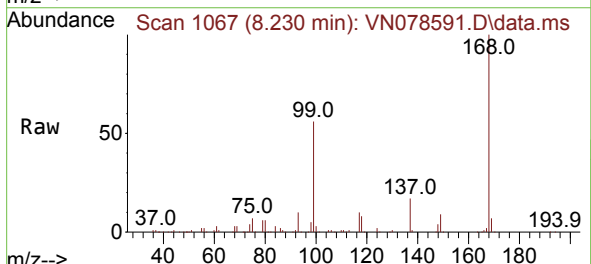


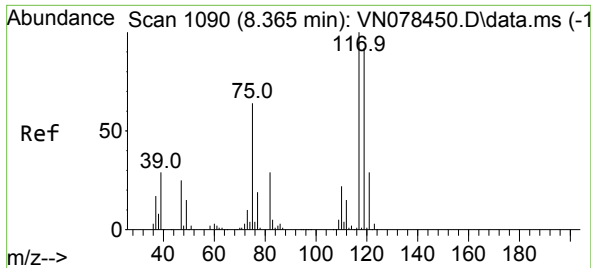
Tgt Ion:113 Resp: 285186
Ion Ratio Lower Upper
113 100
111 102.9 82.6 123.8
192 18.1 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.647 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

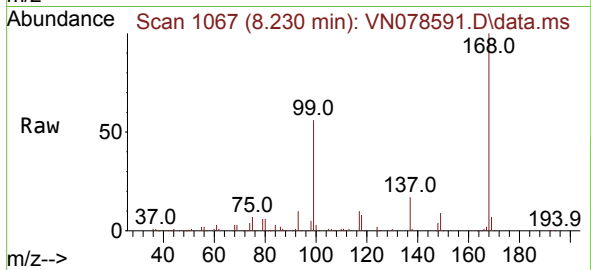
Tgt Ion: 75 Resp: 34741
Ion Ratio Lower Upper
75 100
110 10.6 19.1 57.3#
77 0.0 25.0 37.4#



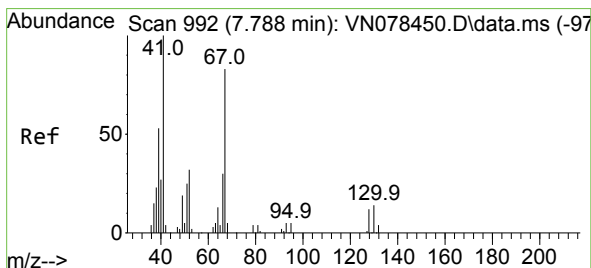
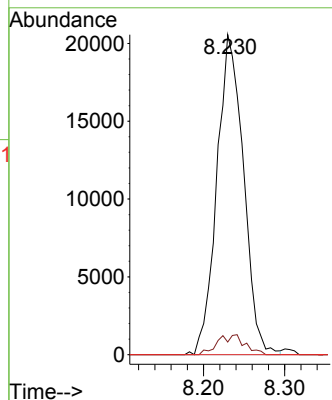
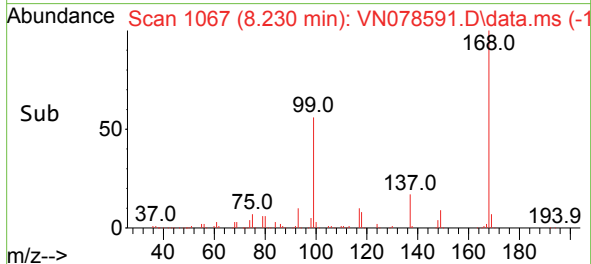


#38
Carbon Tetrachloride
Concen: 5.763 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Instrument :
MSVOA_N
ClientSampleId :

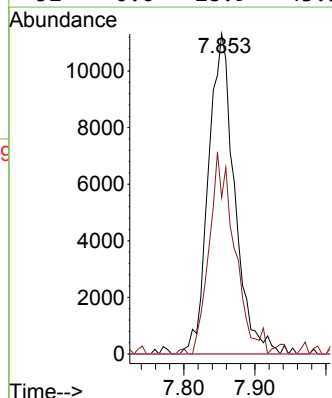
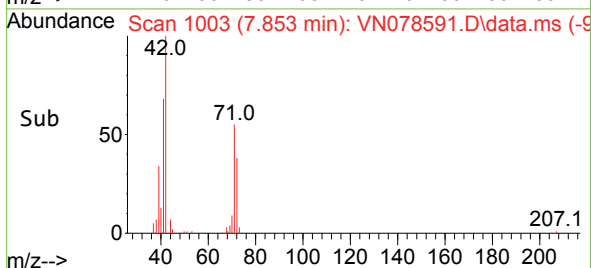
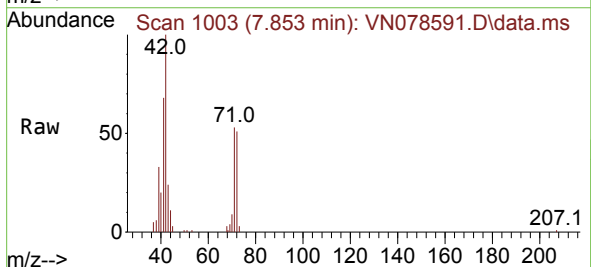


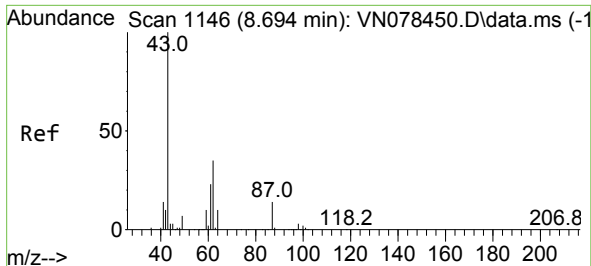
Tgt Ion:117 Resp: 46823
Ion Ratio Lower Upper
117 100
119 3.9 77.3 115.9#
121 0.0 23.3 34.9#



#41
Methacrylonitrile
Concen: 9.104 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.065 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

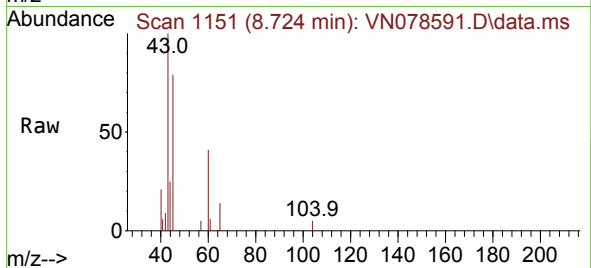
Tgt Ion: 41 Resp: 28925
Ion Ratio Lower Upper
41 100
39 61.2 42.6 64.0
67 0.0 77.5 116.3#
52 0.0 28.9 43.3#



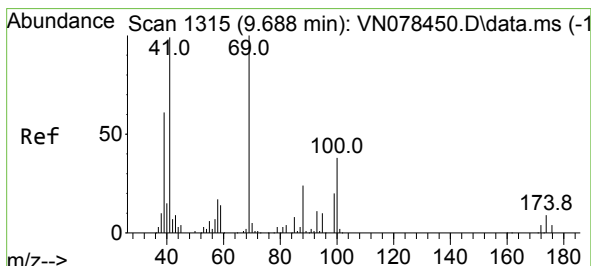
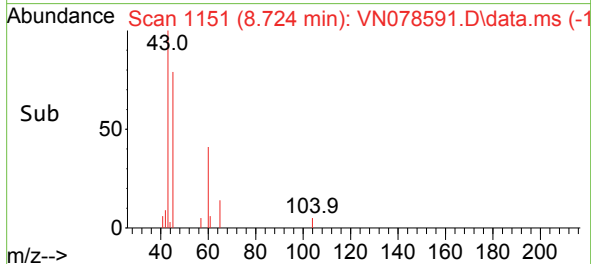
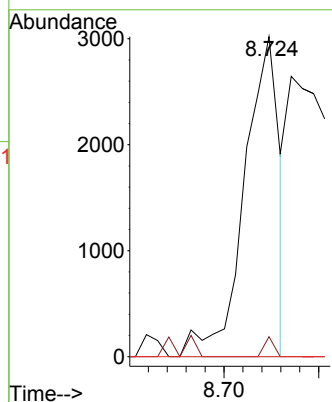


#43
Isopropyl Acetate
Concen: 0.380 ug/l
RT: 8.724 min Scan# 1146
Delta R.T. 0.030 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Instrument :
MSVOA_N
ClientSampleId :

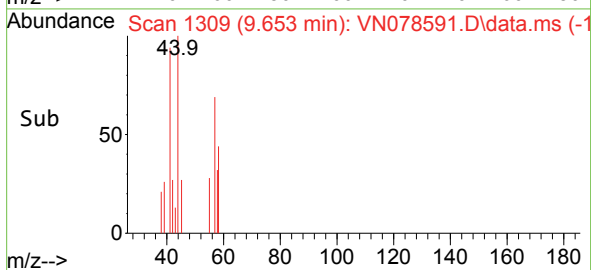
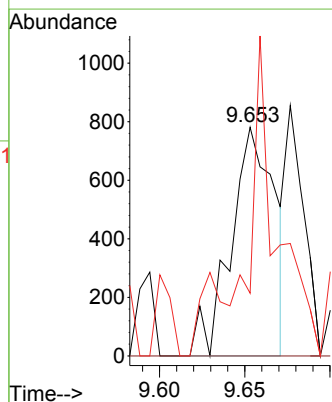
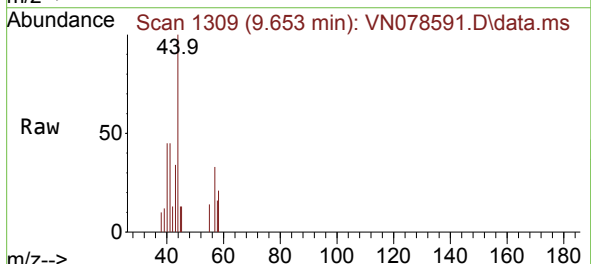


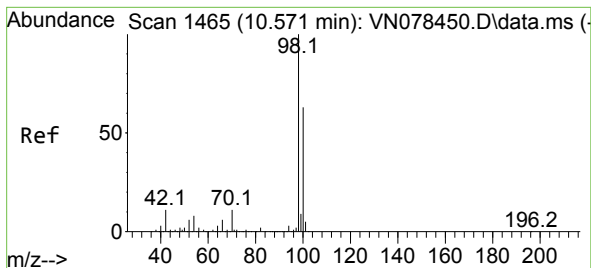
Tgt Ion: 43 Resp: 3897
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#48
Methyl methacrylate
Concen: 0.293 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.035 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Tgt Ion: 41 Resp: 1393
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 79.1 54.6 81.8

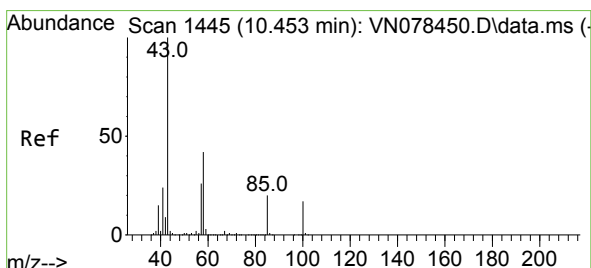
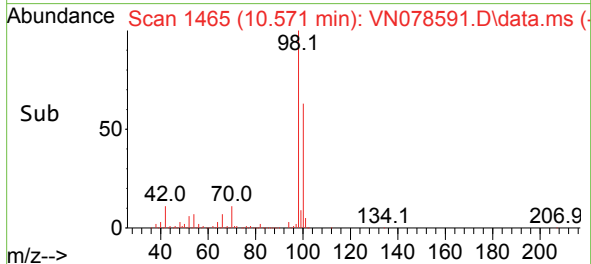
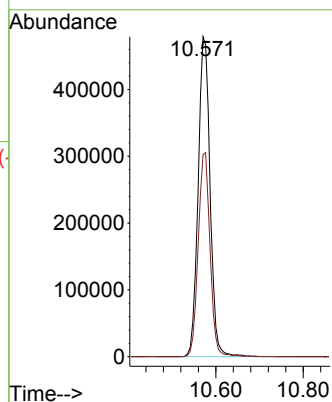
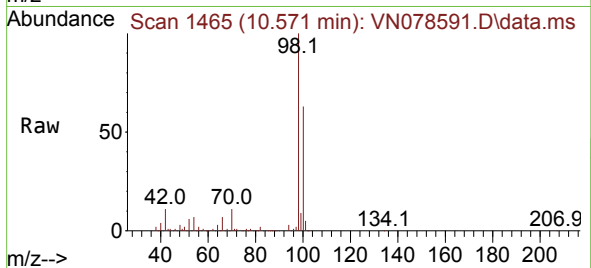




#50
Toluene-d8
Concen: 46.584 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

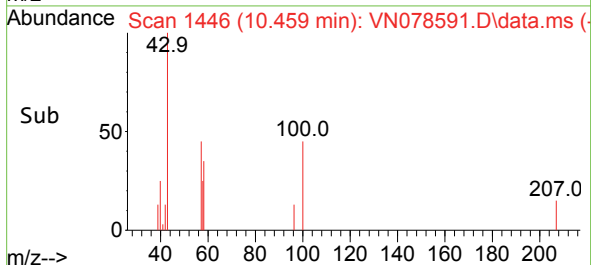
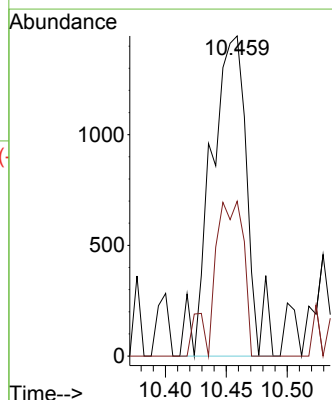
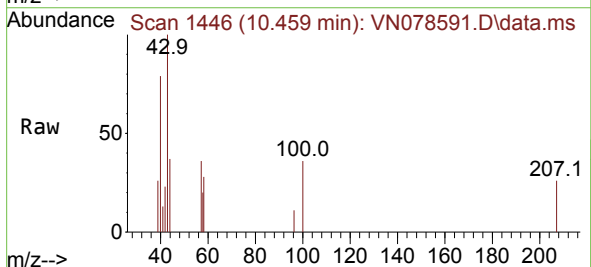
Instrument :
MSVOA_N
ClientSampleId :

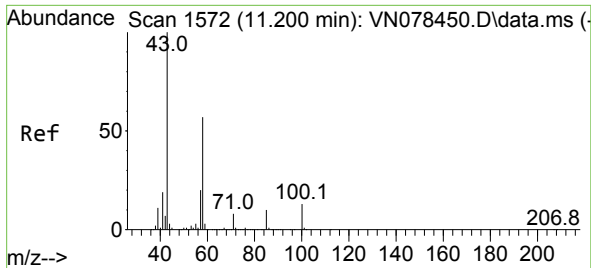
Tgt Ion: 98 Resp: 911176
Ion Ratio Lower Upper
98 100
100 63.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.488 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.006 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Tgt Ion: 43 Resp: 2981
Ion Ratio Lower Upper
43 100
58 40.3 36.6 54.8

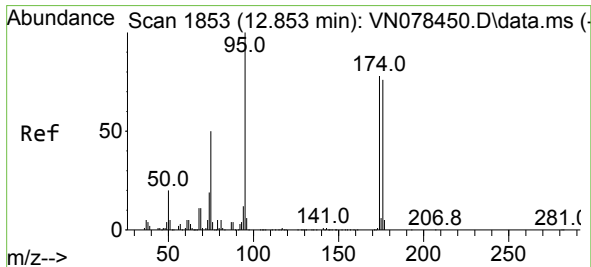
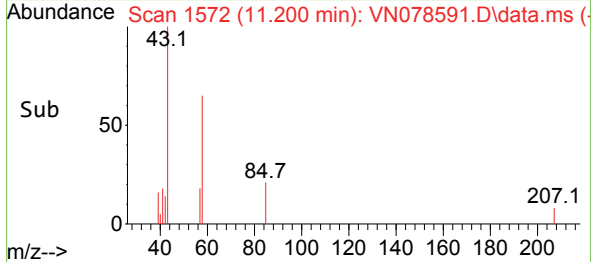
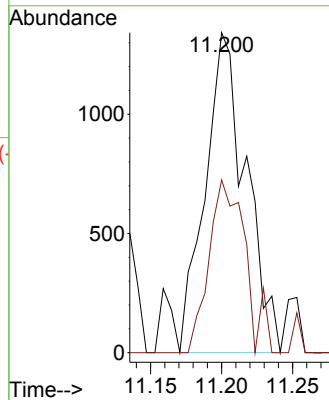
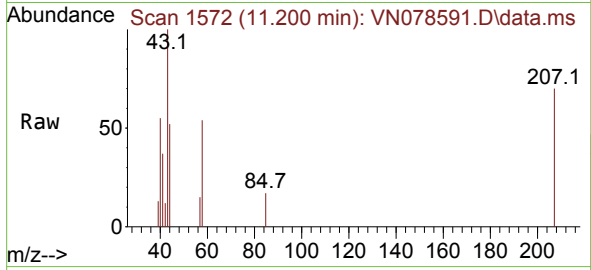




#59
2-Hexanone
Concen: 0.620 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

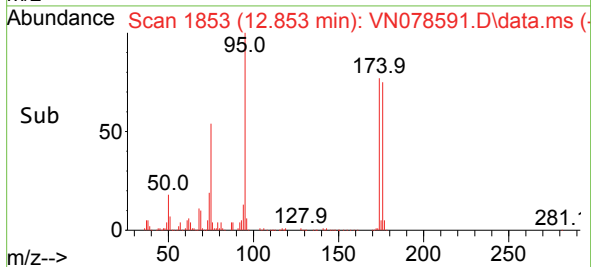
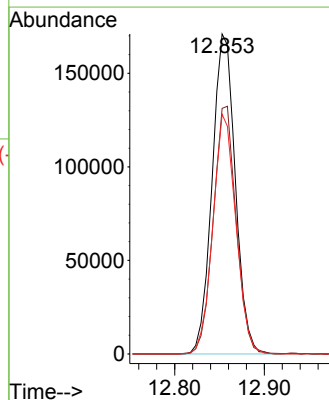
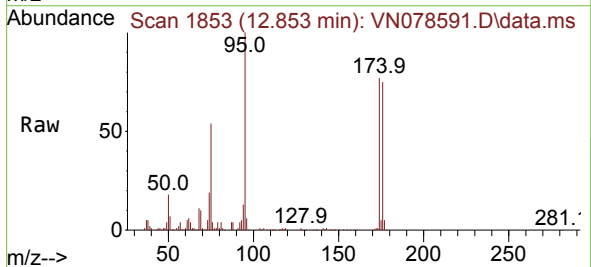
Instrument :
MSVOA_N
ClientSampleId :

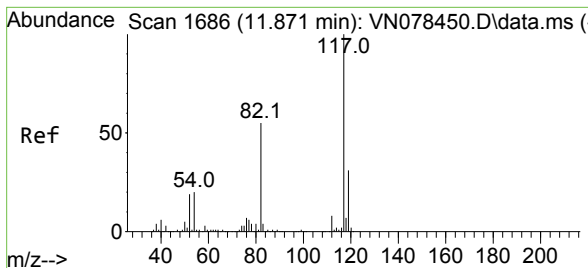
Tgt Ion: 43 Resp: 2690
Ion Ratio Lower Upper
43 100
58 47.8 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 50.787 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Tgt Ion: 95 Resp: 305980
Ion Ratio Lower Upper
95 100
174 76.8 0.0 143.8
176 74.3 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN078591.D

Acq: 20 Jul 2023 13:45

Instrument :

MSVOA_N

ClientSampleId :

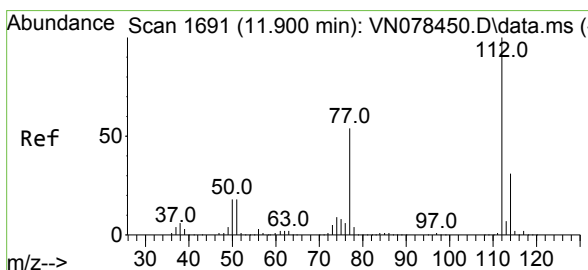
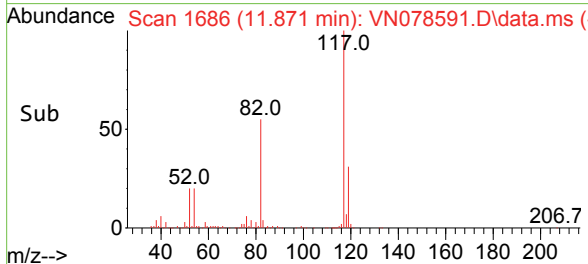
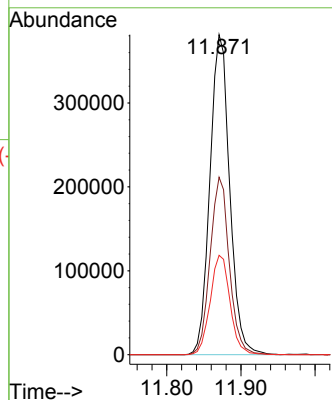
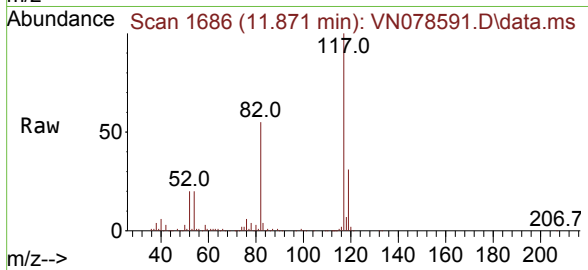
Tgt Ion:117 Resp: 706649

Ion Ratio Lower Upper

117 100

82 55.5 44.0 66.0

119 31.1 25.6 38.4



#65

Chlorobenzene

Concen: 0.365 ug/l

RT: 11.900 min Scan# 1691

Delta R.T. 0.000 min

Lab File: VN078591.D

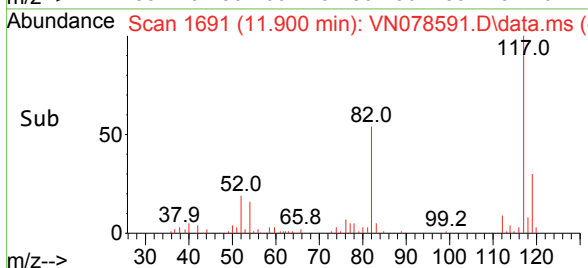
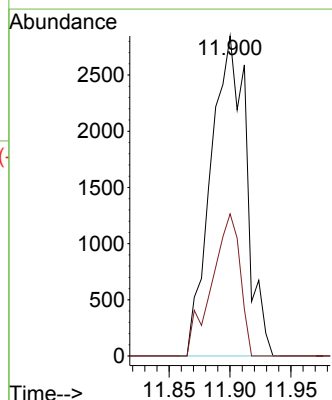
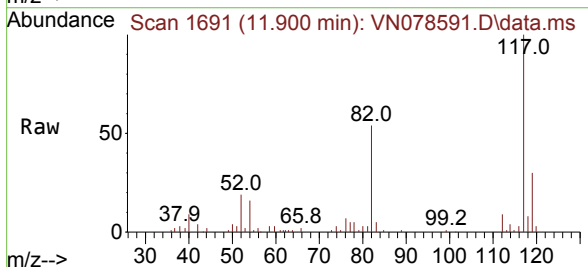
Acq: 20 Jul 2023 13:45

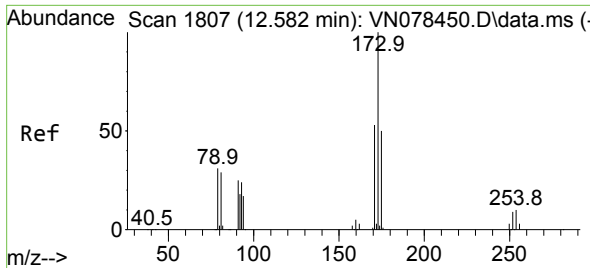
Tgt Ion:112 Resp: 5764

Ion Ratio Lower Upper

112 100

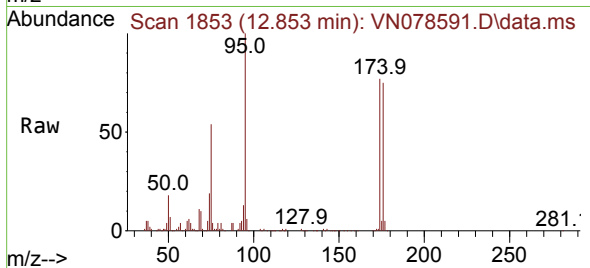
114 44.4 25.0 37.4#



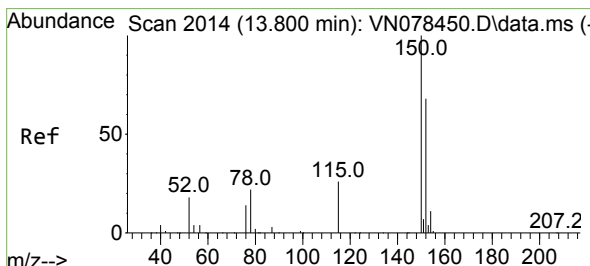
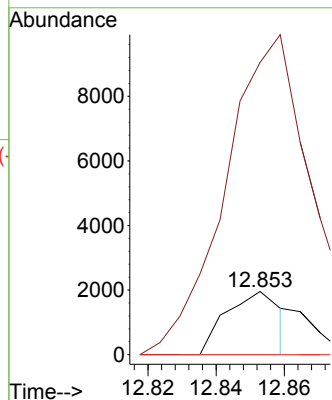
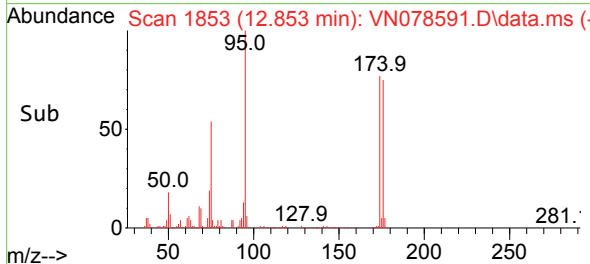


#71
Bromoform
Concen: 0.529 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

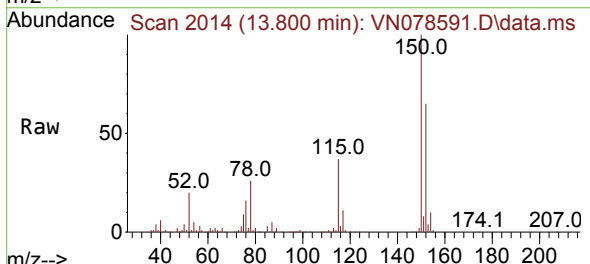
Instrument :
MSVOA_N
ClientSampleId :



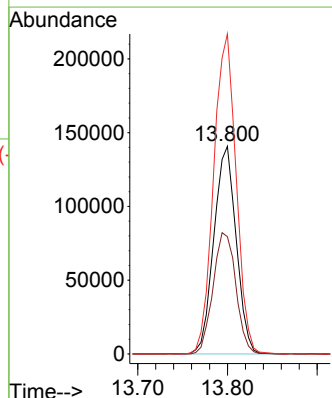
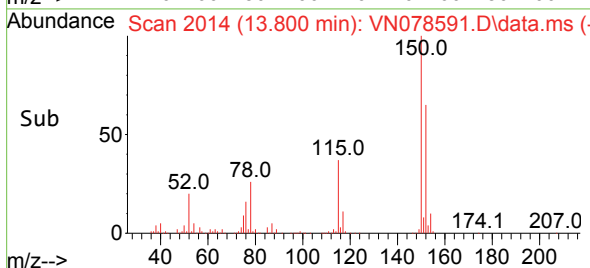
Tgt Ion:173 Resp: 2178
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

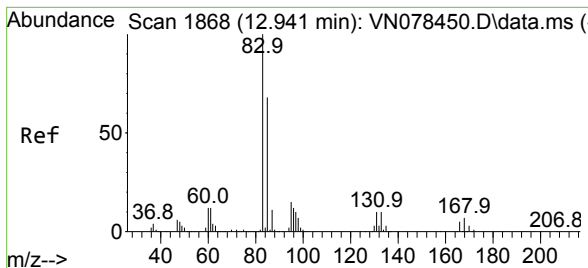


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45



Tgt Ion:152 Resp: 243323
Ion Ratio Lower Upper
152 100
115 59.7 32.3 96.8
150 154.9 0.0 355.8

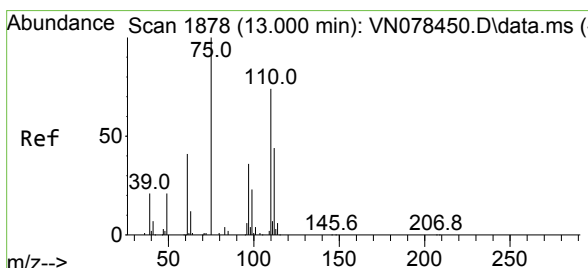
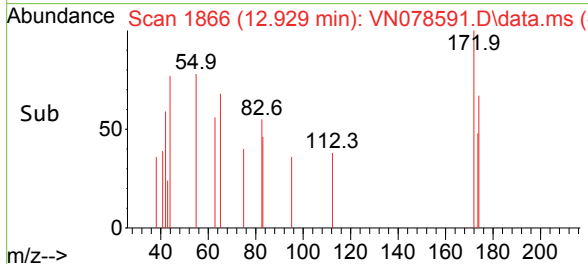
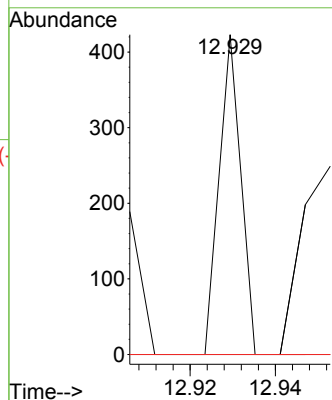
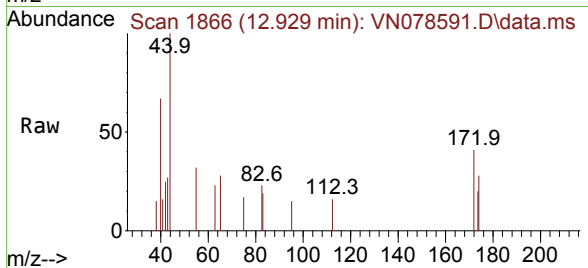




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.929 min Scan# 1866
 Delta R.T. -0.012 min
 Lab File: VN078591.D
 Acq: 20 Jul 2023 13:45

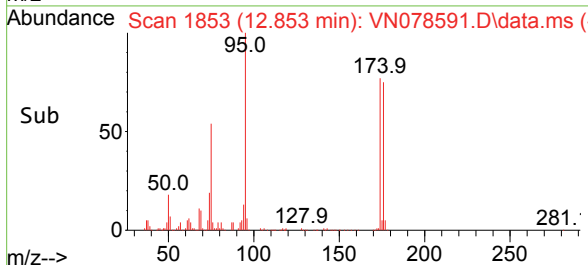
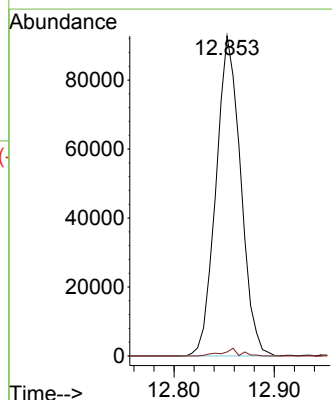
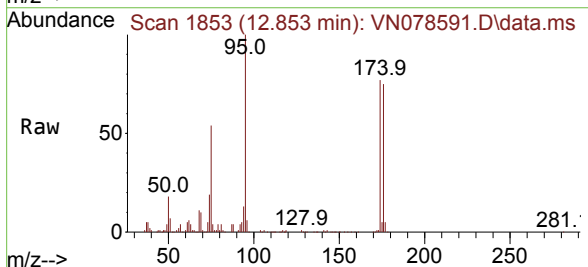
Instrument :
 MSVOA_N
 ClientSampleId :

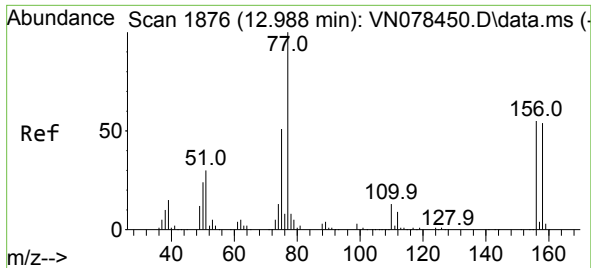
Tgt Ion: 83 Resp: 149
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 0.0 31.9 95.7#



#76
 1,2,3-Trichloropropane
 Concen: 26.993 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN078591.D
 Acq: 20 Jul 2023 13:45

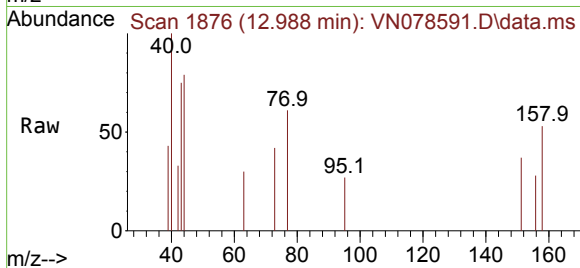
Tgt Ion: 75 Resp: 158755
 Ion Ratio Lower Upper
 75 100
 77 1.7 84.5 253.5#



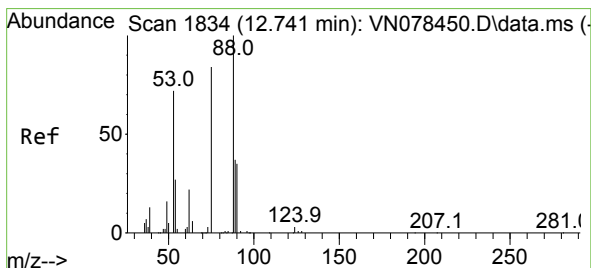
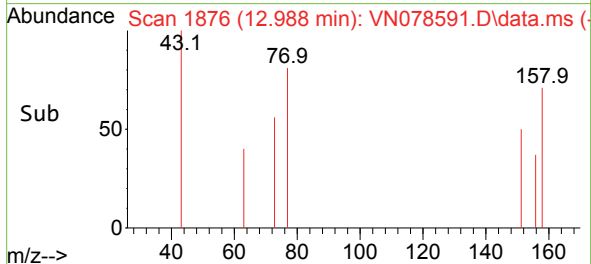
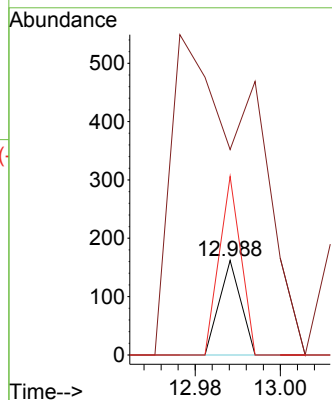


#77
 Bromobenzene
 Concen: Below Cal
 RT: 12.988 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VN078591.D
 Acq: 20 Jul 2023 13:45

Instrument :
 MSVOA_N
 ClientSampleId :

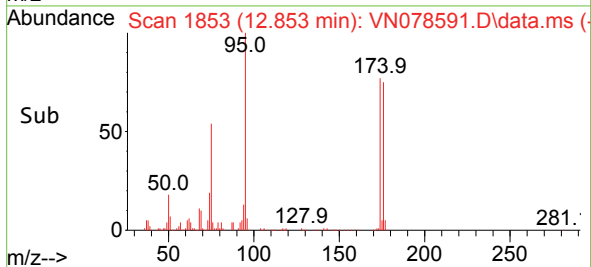
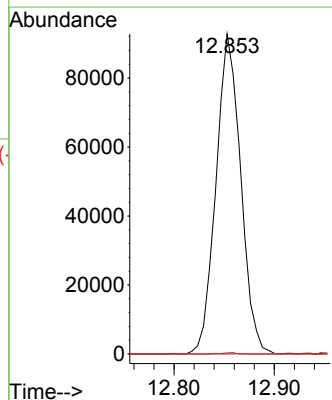
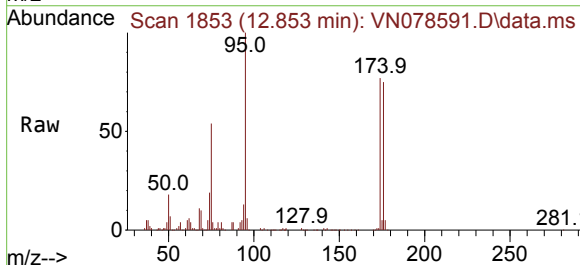


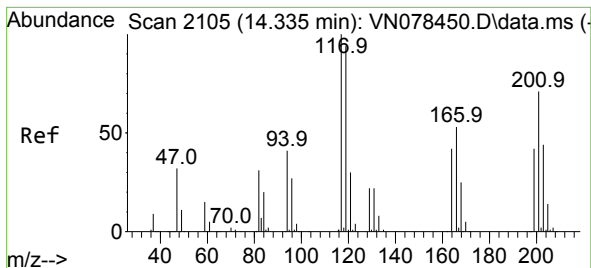
Tgt Ion:156 Resp: 57
 Ion Ratio Lower Upper
 156 100
 77 1342.1 107.7 323.3#
 158 189.5 48.4 145.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.932 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN078591.D
 Acq: 20 Jul 2023 13:45

Tgt Ion: 75 Resp: 158755
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.453 min Scan# 2105

Delta R.T. 0.118 min

Lab File: VN078591.D

Acq: 20 Jul 2023 13:45

Instrument :

MSVOA_N

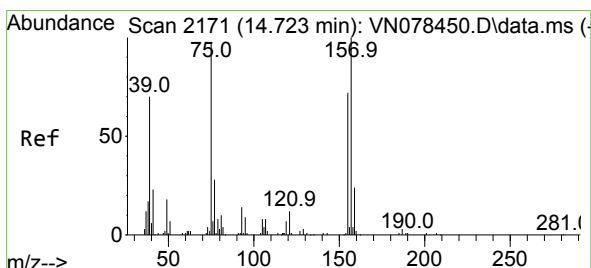
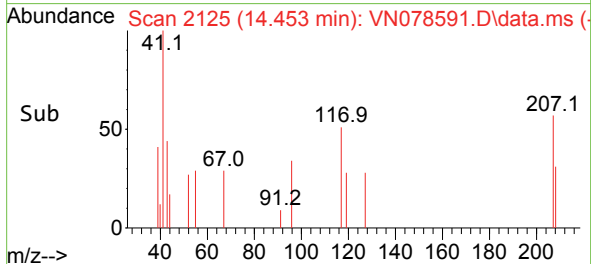
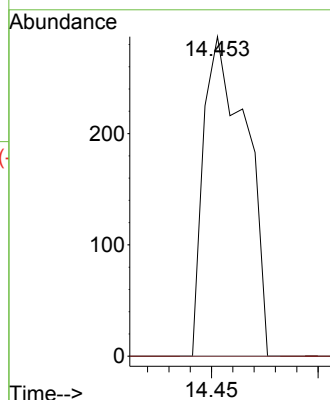
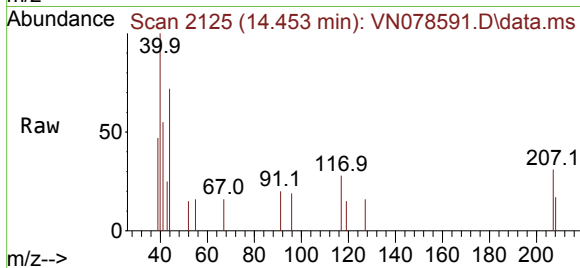
ClientSampleId :

Tgt Ion:117 Resp: 400

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.553 min Scan# 2142

Delta R.T. -0.170 min

Lab File: VN078591.D

Acq: 20 Jul 2023 13:45

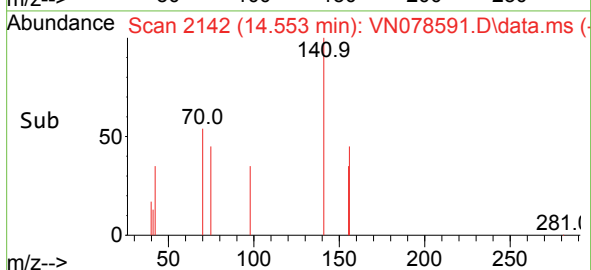
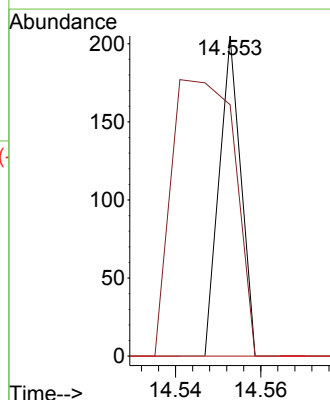
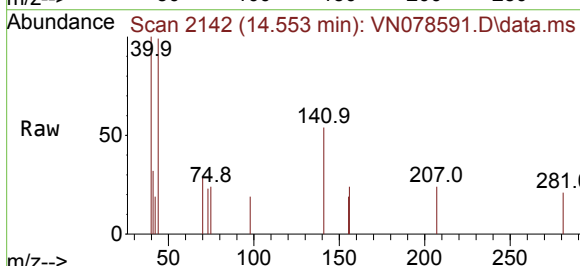
Tgt Ion: 75 Resp: 72

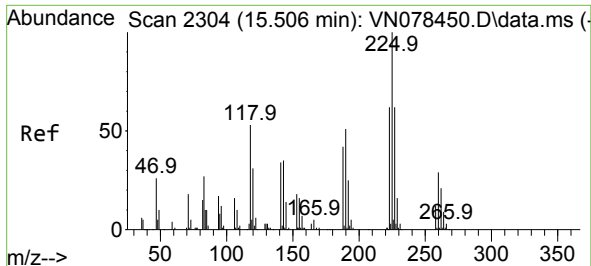
Ion Ratio Lower Upper

75 100

155 251.4 39.1 117.2#

157 0.0 50.3 150.9#

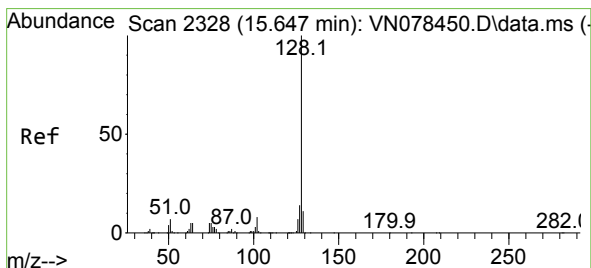
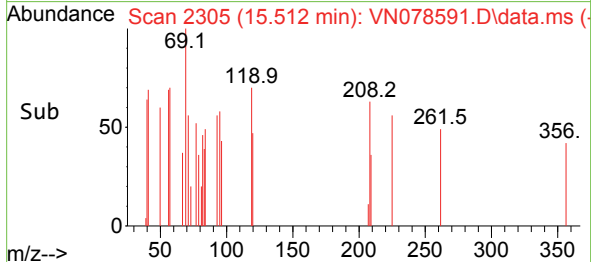
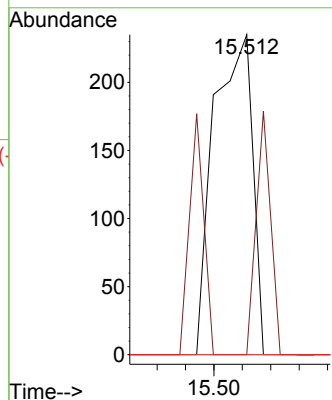
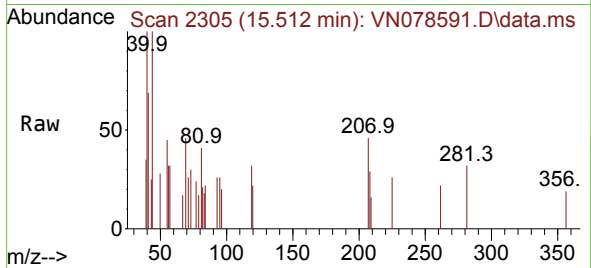




#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.512 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:225 Resp: 221
Ion Ratio Lower Upper
225 100
223 28.5 31.3 93.8#
227 0.0 31.9 95.9#



#95
Naphthalene
Concen: 0.326 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078591.D
Acq: 20 Jul 2023 13:45

Tgt Ion:128 Resp: 3103
Ion Ratio Lower Upper
128 100
127 7.1 10.0 15.0#
129 0.0 8.7 13.1#

