

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072723\
 Data File : VN078655.D
 Acq On : 27 Jul 2023 11:57
 Operator : JC\MD
 Sample : VN0727WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 27 16:00:21 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)

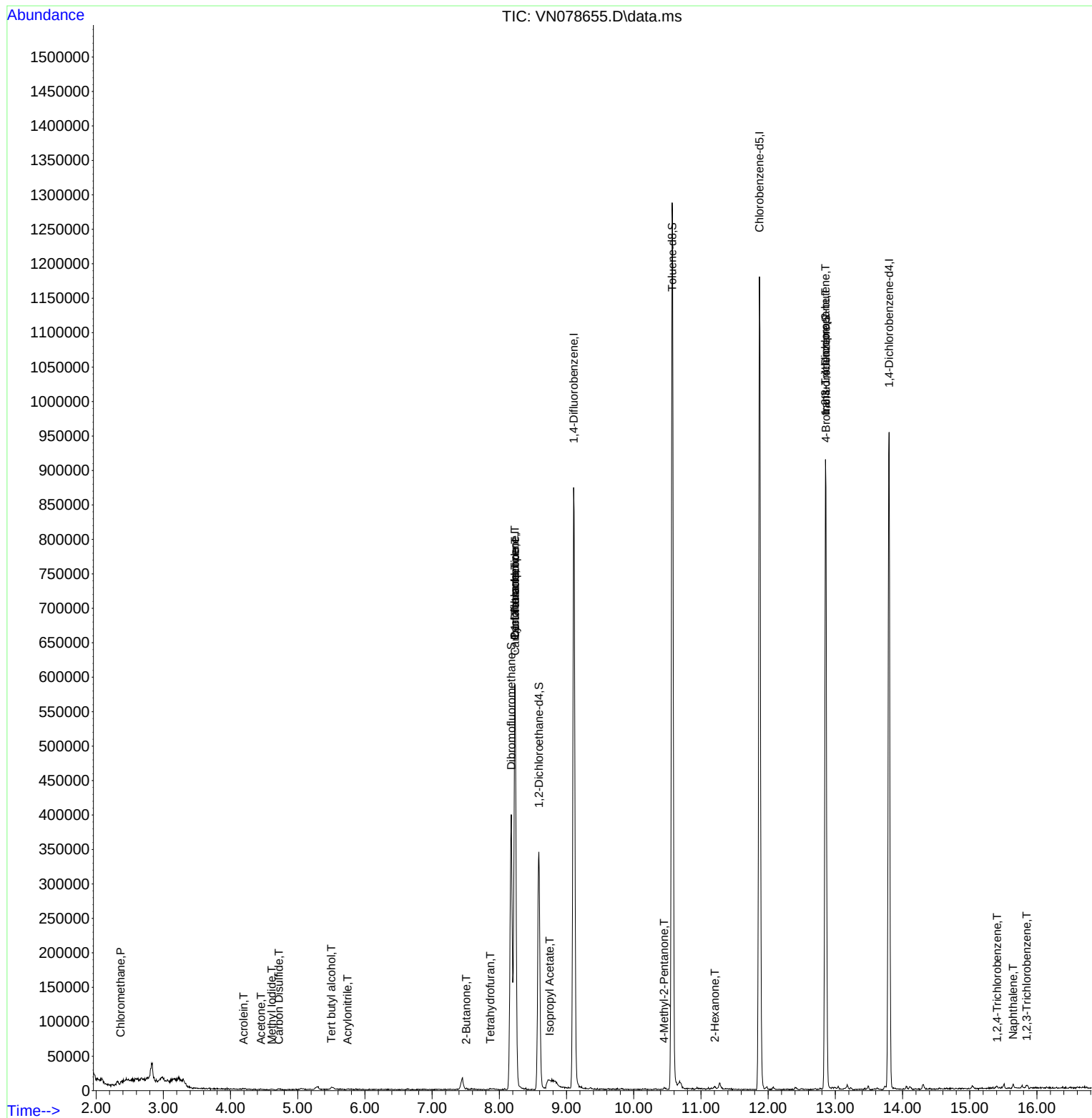
Internal Standards						
1) Pentafluorobenzene	8.230	168	436299	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	778354	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	732185	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	270961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	284899	48.709	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.420%		
35) Dibromofluoromethane	8.177	113	273900	51.839	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.680%		
50) Toluene-d8	10.571	98	930040	46.595	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.180%		
62) 4-Bromofluorobenzene	12.859	95	320468	52.124	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	104.240%		
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	2219	0.382	ug/l #	66
5) Bromomethane	2.977	94	4685	Below Cal		87
6) Chloroethane	3.142	64	459	Below Cal		90
10) Methyl Iodide	4.612	142	2040	0.312	ug/l #	76
11) Tert butyl alcohol	5.500	59	1267	1.405	ug/l #	72
13) Acrolein	4.195	56	564	0.636	ug/l #	65
15) Acrylonitrile	5.742	53	597	0.262	ug/l #	74
16) Acetone	4.453	43	1439	0.790	ug/l #	40
17) Carbon Disulfide	4.718	76	3566	0.268	ug/l #	75
20) Methylene Chloride	5.289	84	2379	Below Cal	#	58
25) 2-Butanone	7.506	43	840	0.293	ug/l #	37
29) Tetrahydrofuran	7.865	42	740	0.393	ug/l #	54
31) Cyclohexane	8.230	56	8798	1.113	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	33837	4.435	ug/l #	41
38) Carbon Tetrachloride	8.236	117	44219	5.333	ug/l #	15
43) Isopropyl Acetate	8.747	43	12847	1.227	ug/l #	49
51) 4-Methyl-2-Pentanone	10.453	43	1509	0.242	ug/l #	67
59) 2-Hexanone	11.206	43	2260	0.511	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.941	83	710	Below Cal	#	64
76) 1,2,3-Trichloropropane	12.853	75	168423	25.716	ug/l #	1
77) Bromobenzene	12.976	156	524	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	168423	67.576	ug/l #	15
90) Hexachloroethane	14.335	117	213	Below Cal		86
92) 1,2-Dibromo-3-Chloropr...	14.723	75	149	Below Cal	#	32
93) 1,2,4-Trichlorobenzene	15.406	180	1125	0.362	ug/l	96
94) Hexachlorobutadiene	15.512	225	1132	Below Cal		85
95) Naphthalene	15.647	128	5458	0.514	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.847	180	1775	0.497	ug/l #	86

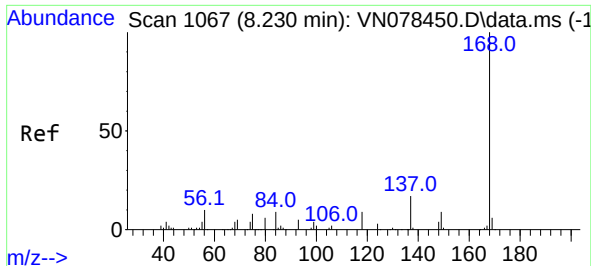
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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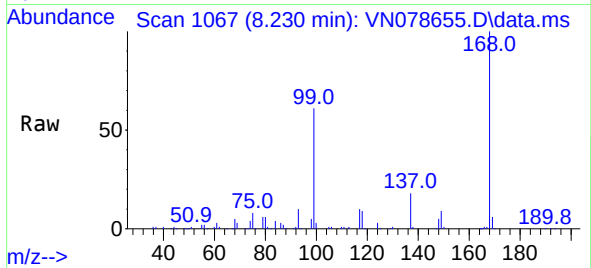
Quant Time: Jul 27 16:00:21 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration



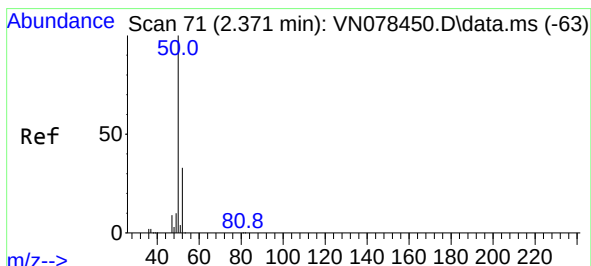
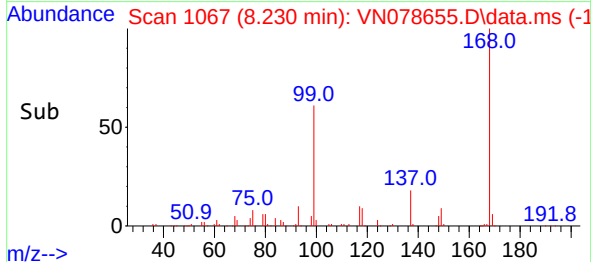
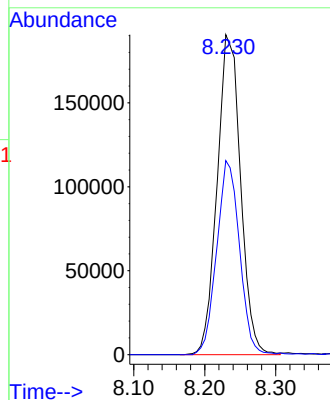


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Instrument :
MSVOA_N
ClientSampleId :

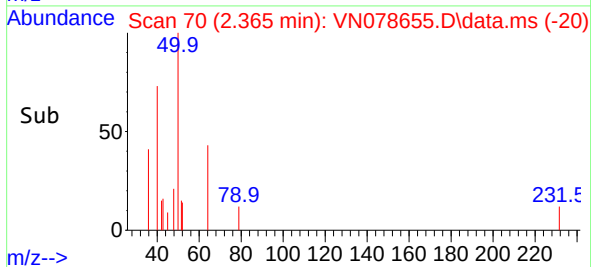
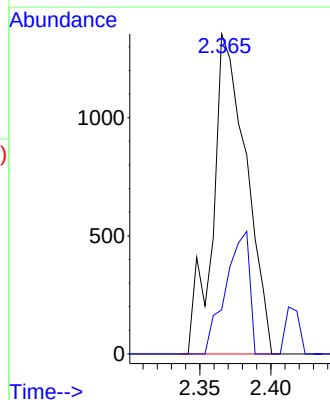
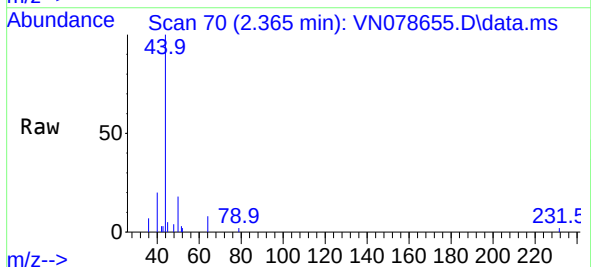


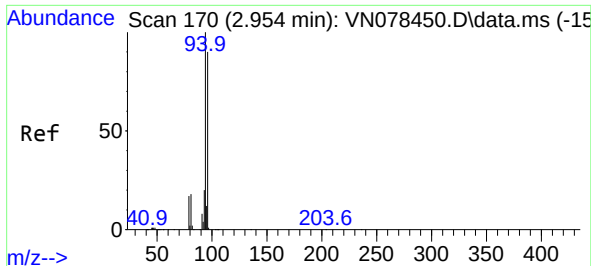
Tgt Ion:168 Resp: 436299
Ion Ratio Lower Upper
168 100
99 60.6 53.0 79.6



#3
Chloromethane
Concen: 0.382 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion: 50 Resp: 2219
Ion Ratio Lower Upper
50 100
52 13.8 26.5 39.7#

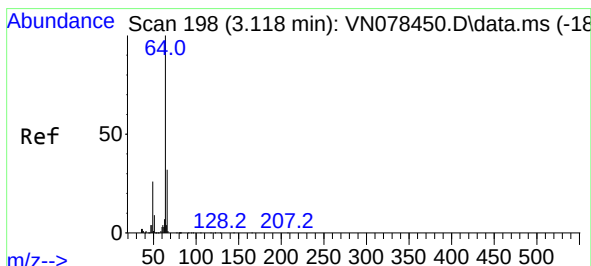
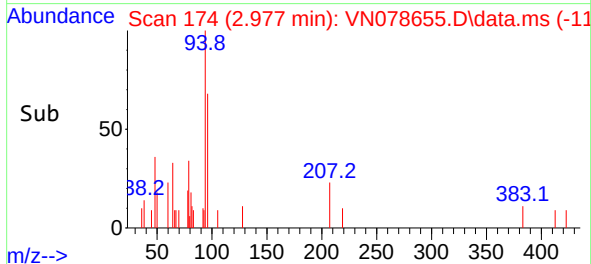
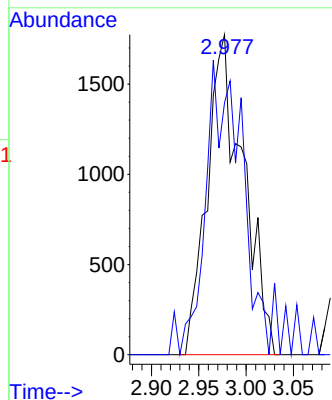
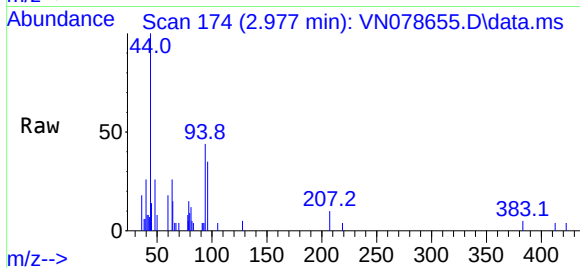




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

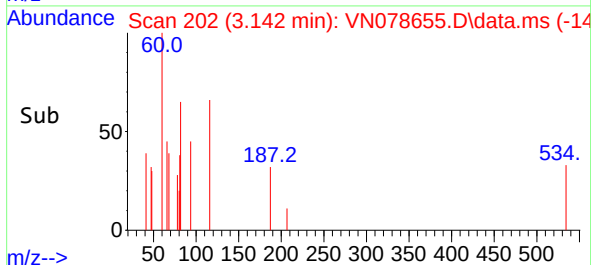
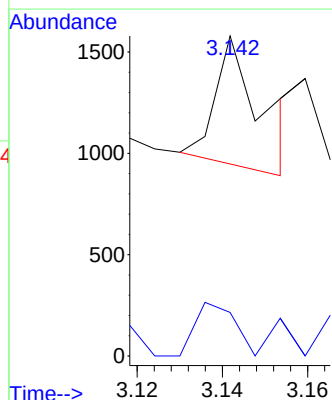
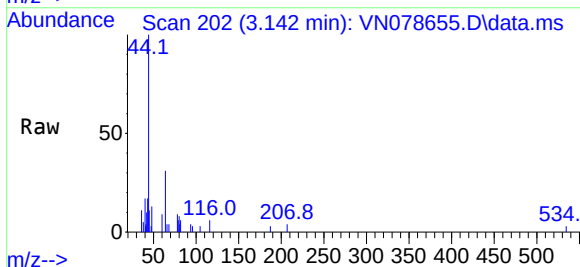
Instrument :
MSVOA_N
ClientSampleId :

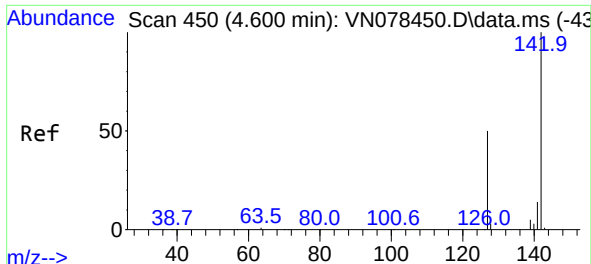
Tgt Ion: 94 Resp: 4685
Ion Ratio Lower Upper
94 100
96 78.7 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

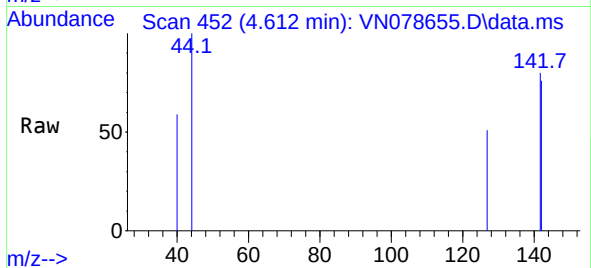
Tgt Ion: 64 Resp: 459
Ion Ratio Lower Upper
64 100
66 37.5 25.4 38.2



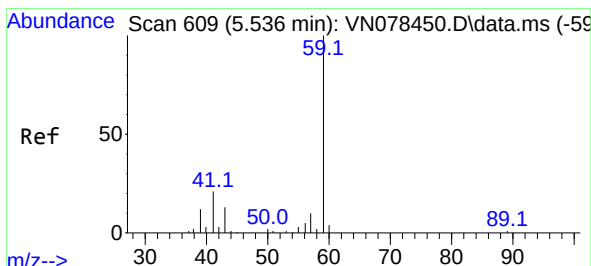
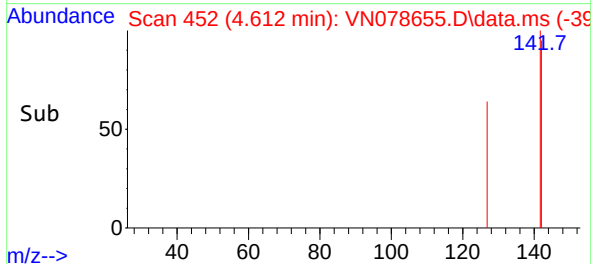
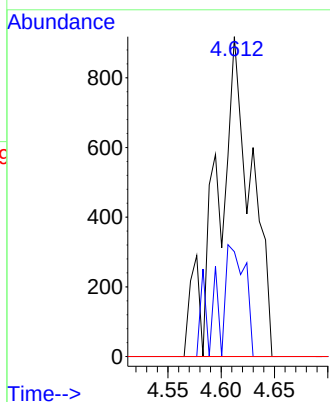


#10
Methyl Iodide
Concen: 0.312 ug/l
RT: 4.612 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Instrument :
MSVOA_N
ClientSampleId :

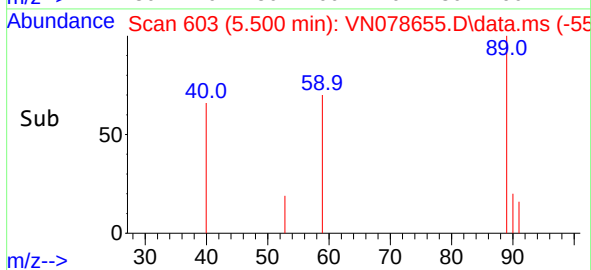
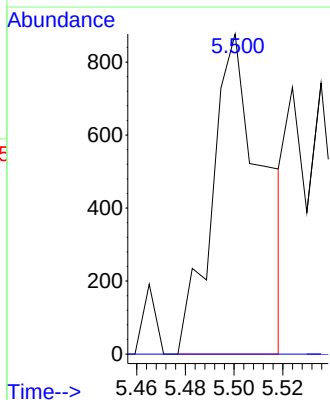
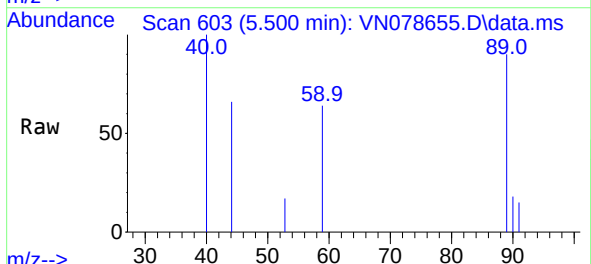


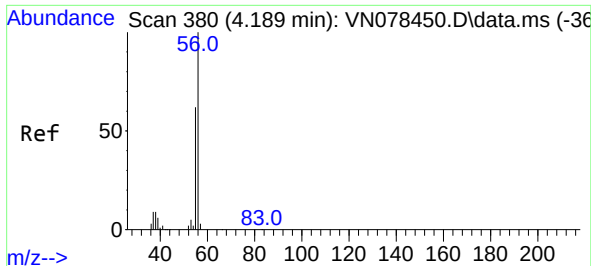
Tgt Ion:142 Resp: 2040
Ion Ratio Lower Upper
142 100
127 32.8 37.6 56.4#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.405 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.036 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion: 59 Resp: 1267
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

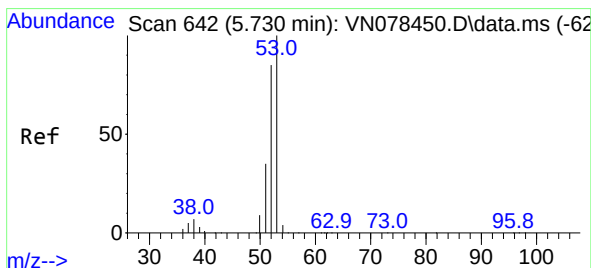
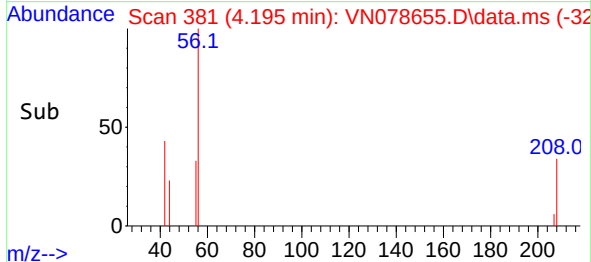
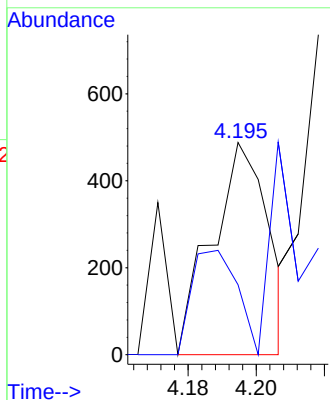
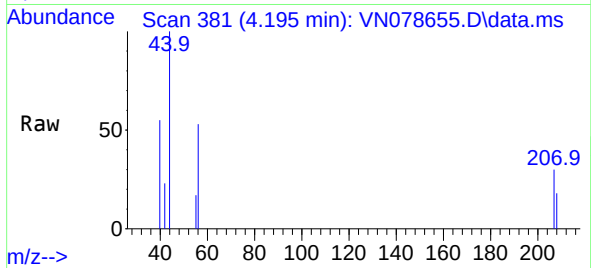




#13
Acrolein
Concen: 0.636 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.006 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

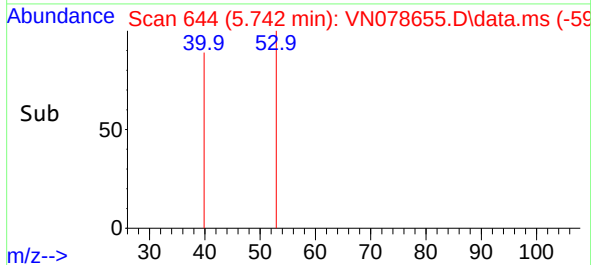
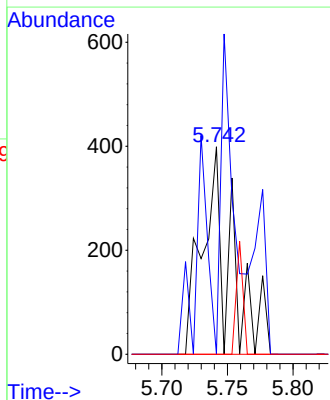
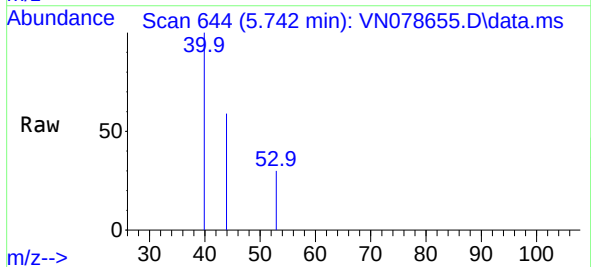
Instrument :
MSVOA_N
ClientSampleId :

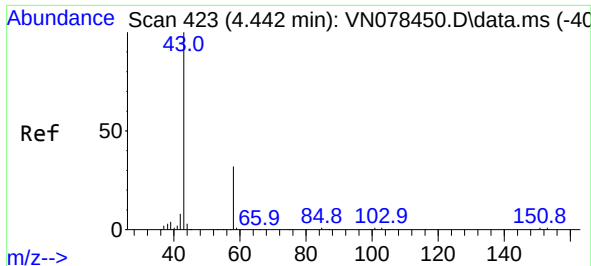
Tgt Ion: 56 Resp: 564
Ion Ratio Lower Upper
56 100
55 39.5 54.5 81.7#



#15
Acrylonitrile
Concen: 0.262 ug/l
RT: 5.742 min Scan# 644
Delta R.T. 0.012 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion: 53 Resp: 597
Ion Ratio Lower Upper
53 100
52 72.5 65.3 97.9
51 0.0 28.9 43.3#

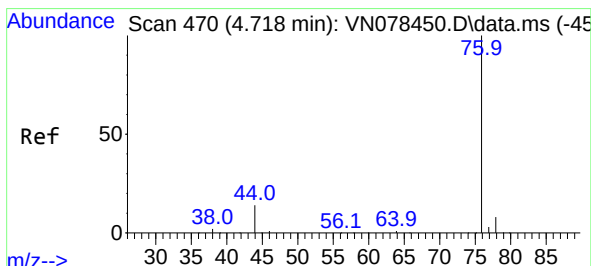
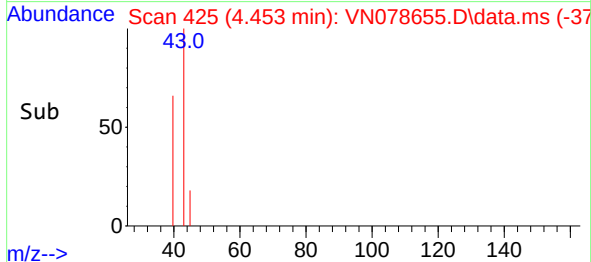
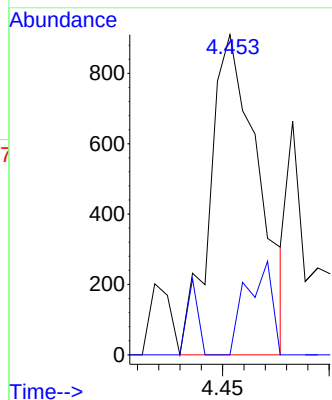
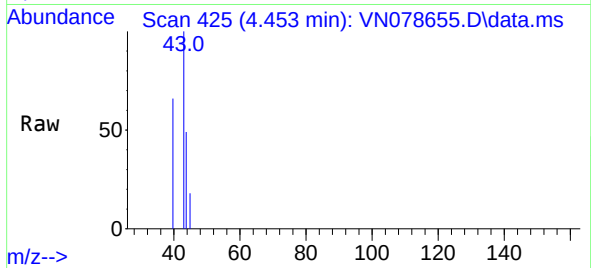




#16
Acetone
Concen: 0.790 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

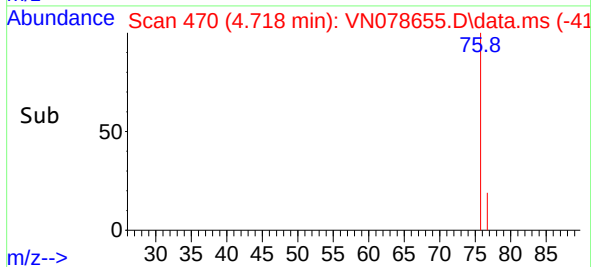
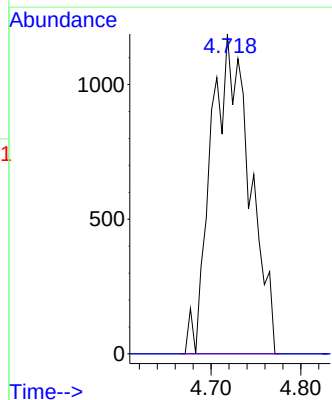
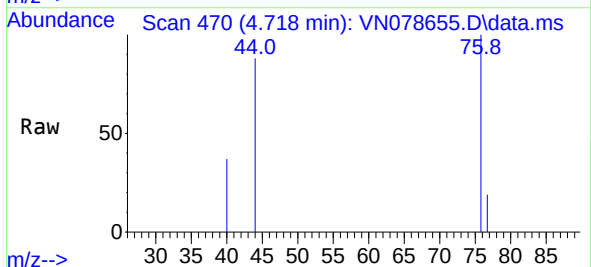
Instrument :
MSVOA_N
ClientSampleId :

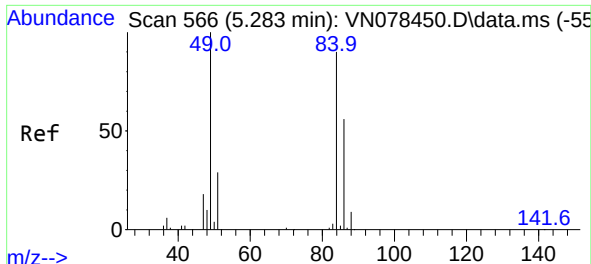
Tgt Ion: 43 Resp: 1439
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.268 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

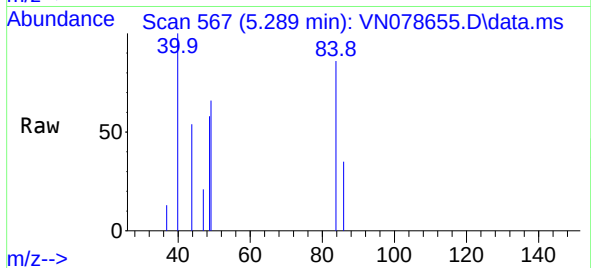
Tgt Ion: 76 Resp: 3566
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



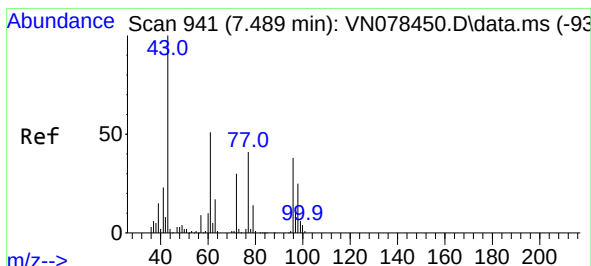
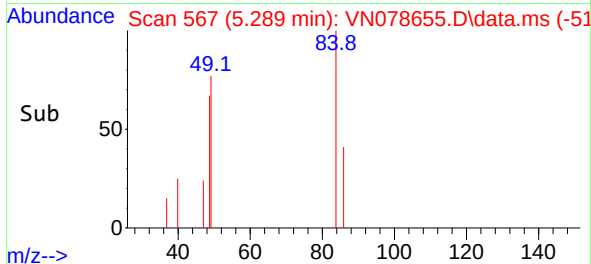
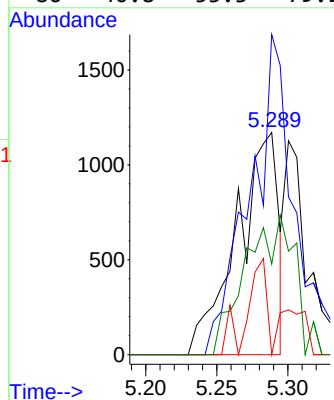


#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Instrument :
MSVOA_N
ClientSampleId :

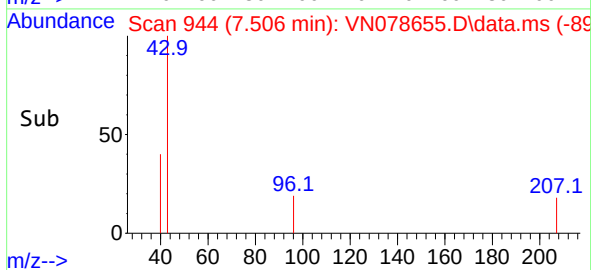
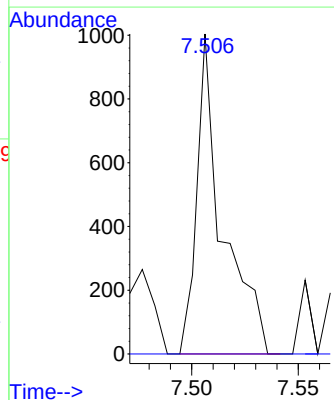
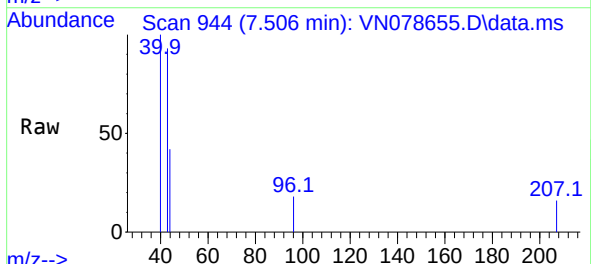


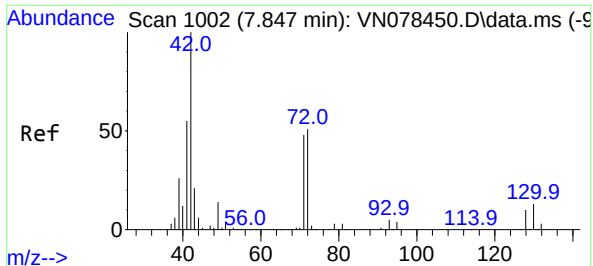
Tgt Ion: 84 Resp: 2379
Ion Ratio Lower Upper
84 100
49 144.0 79.7 119.5#
51 0.0 25.2 37.8#
86 40.8 53.3 79.9#



#25
2-Butanone
Concen: 0.293 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.017 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

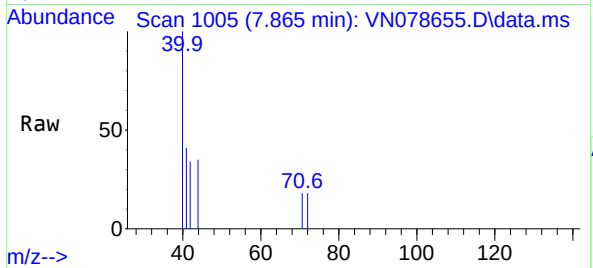
Tgt Ion: 43 Resp: 840
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



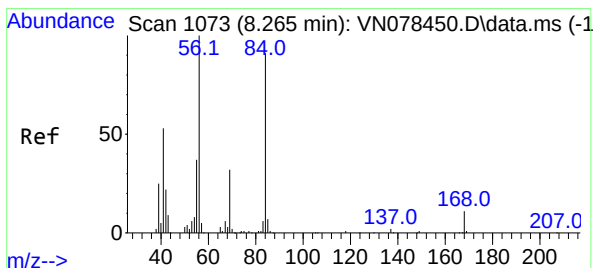
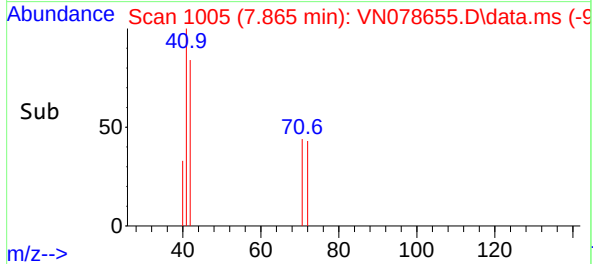
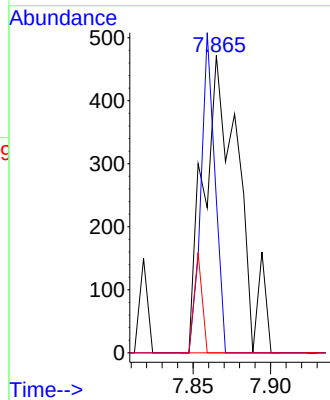


#29
Tetrahydrofuran
Concen: 0.393 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.018 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Instrument :
MSVOA_N
ClientSampleId :

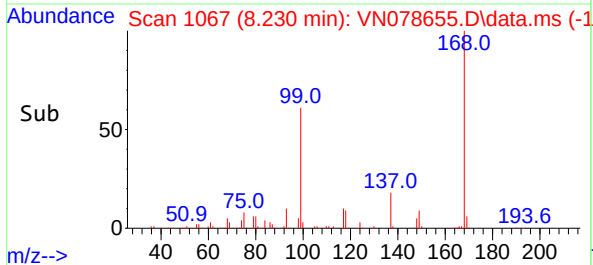
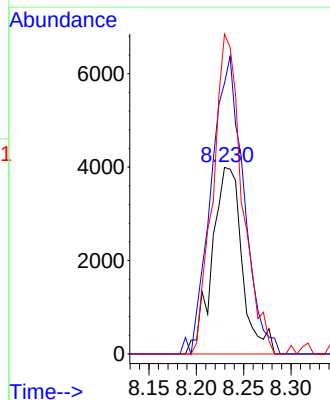
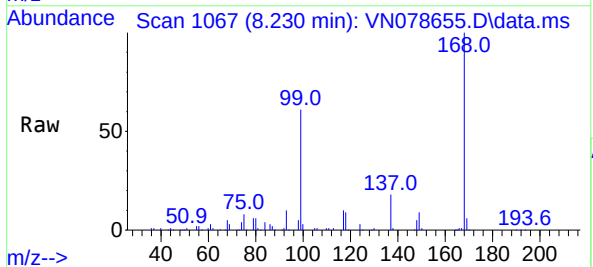


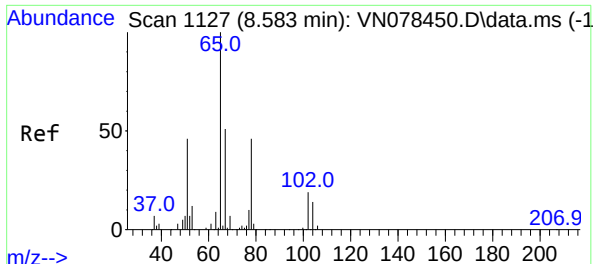
Tgt Ion:	42	Resp:	740
Ion	Ratio	Lower	Upper
42	100		
72	43.1	49.8	74.6#
71	7.6	47.4	71.2#



#31
Cyclohexane
Concen: 1.113 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion:	56	Resp:	8798
Ion	Ratio	Lower	Upper
56	100		
69	145.2	26.8	40.2#
84	171.5	81.8	122.6#

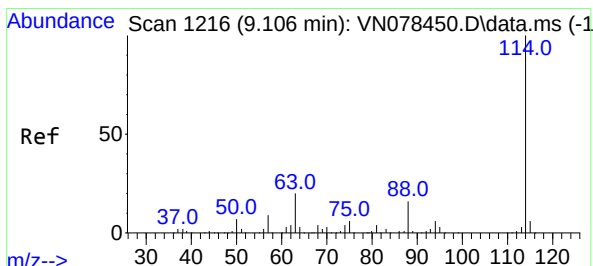
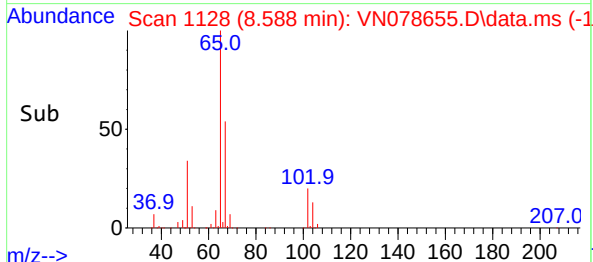
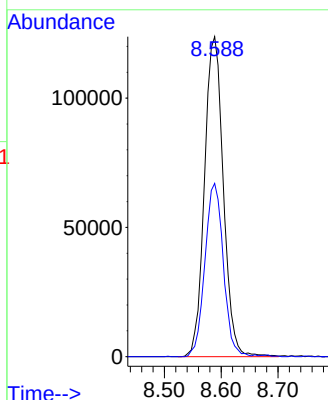
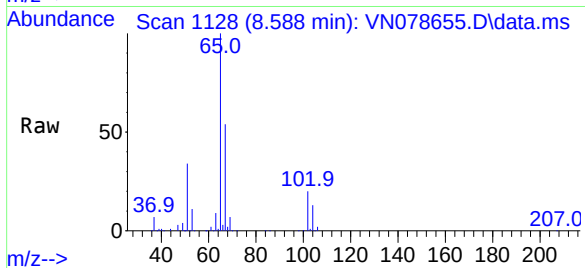




#33
1,2-Dichloroethane-d4
Concen: 48.709 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.005 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

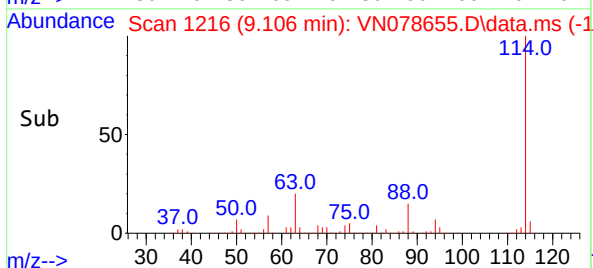
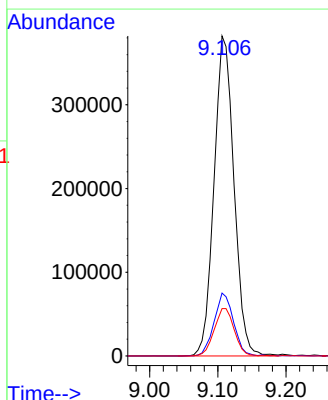
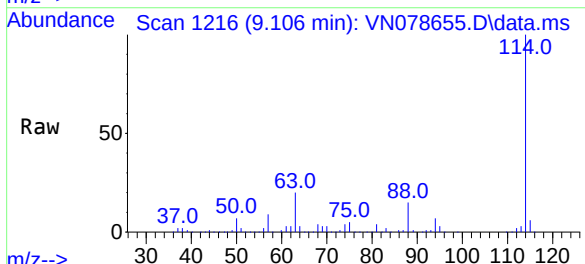
Instrument :
MSVOA_N
ClientSampleId :

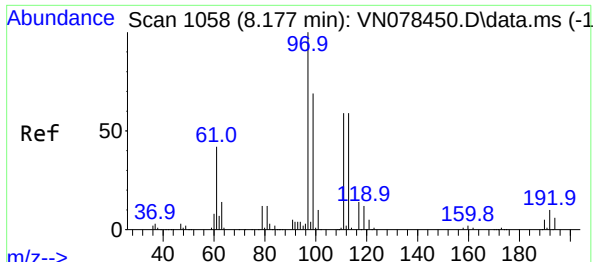
Tgt Ion: 65 Resp: 284899
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

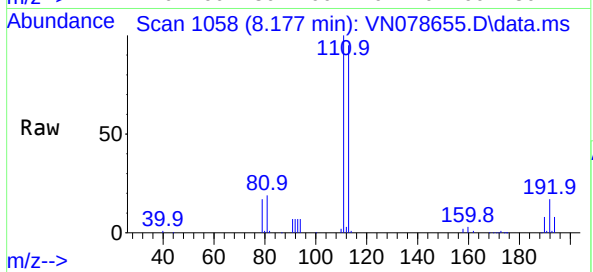
Tgt Ion:114 Resp: 778354
Ion Ratio Lower Upper
114 100
63 19.7 0.0 36.4
88 14.8 0.0 30.6



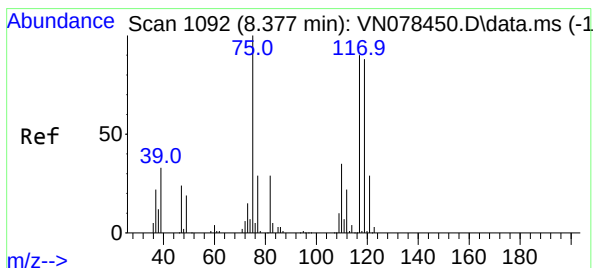
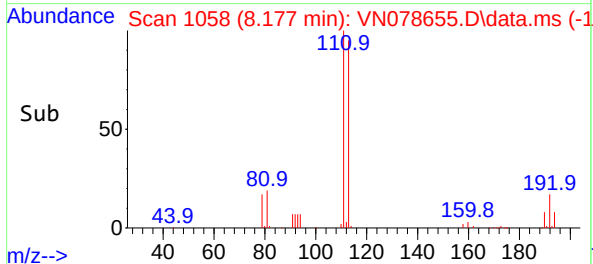
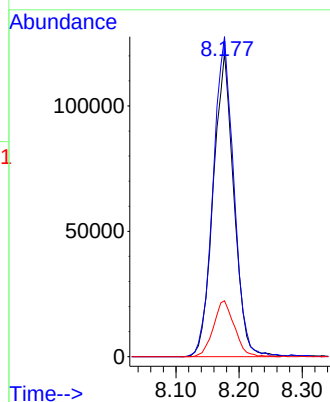


#35
Dibromofluoromethane
Concen: 51.839 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Instrument :
MSVOA_N
ClientSampleId :

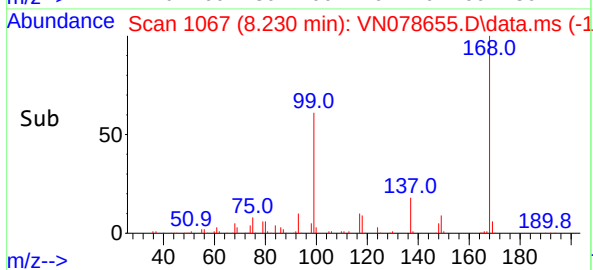
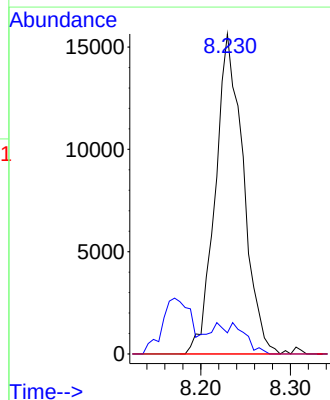
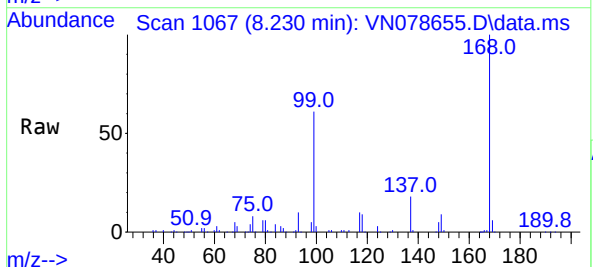


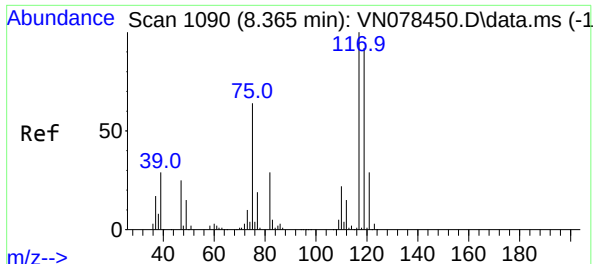
Tgt Ion:113 Resp: 273900
Ion Ratio Lower Upper
113 100
111 106.3 82.6 123.8
192 18.8 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.435 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

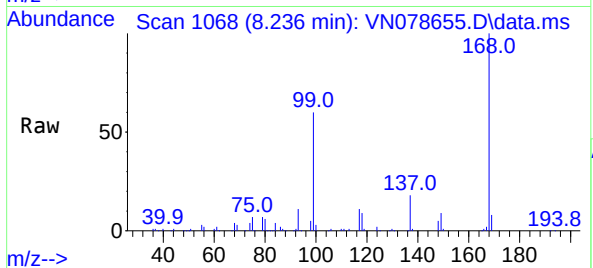
Tgt Ion: 75 Resp: 33837
Ion Ratio Lower Upper
75 100
110 1.7 19.1 57.3#
77 0.0 25.0 37.4#



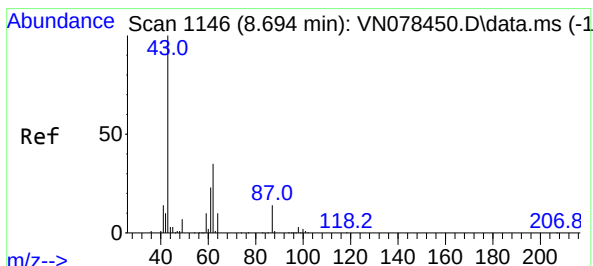
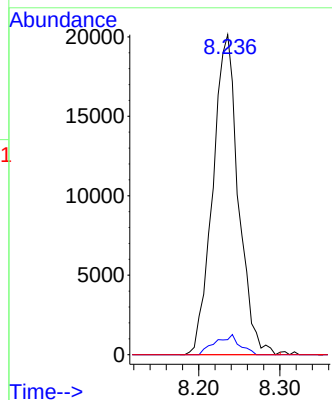
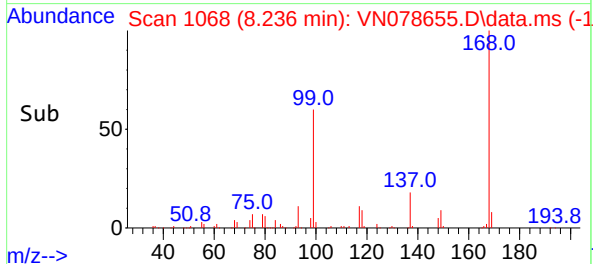


#38
Carbon Tetrachloride
Concen: 5.333 ug/l
RT: 8.236 min Scan# 1105
Delta R.T. -0.129 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

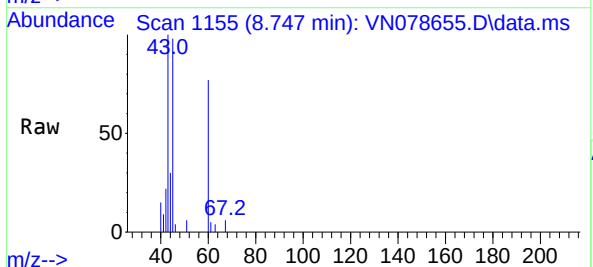
Instrument :
MSVOA_N
ClientSampleId :



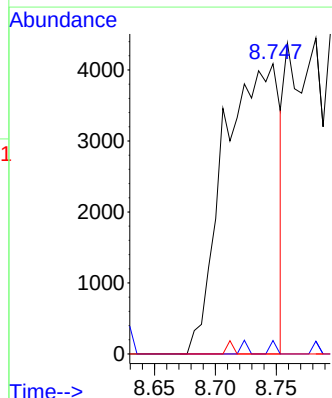
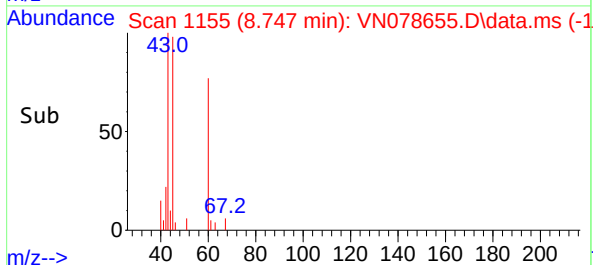
Tgt Ion:117 Resp: 44219
Ion Ratio Lower Upper
117 100
119 4.7 77.3 115.9#
121 0.0 23.3 34.9#

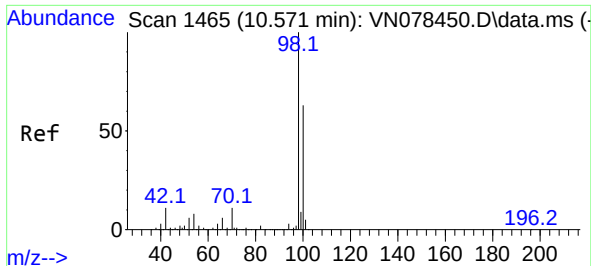


#43
Isopropyl Acetate
Concen: 1.227 ug/l
RT: 8.747 min Scan# 1155
Delta R.T. 0.053 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57



Tgt Ion: 43 Resp: 12847
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#

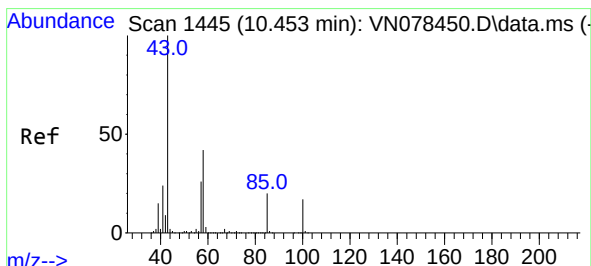
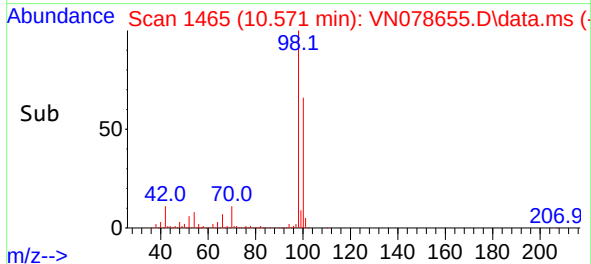
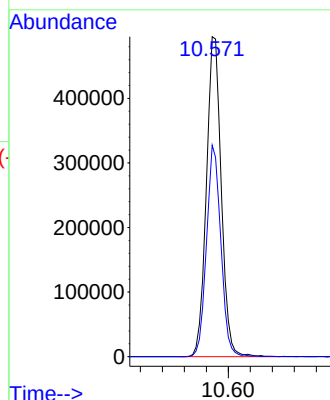
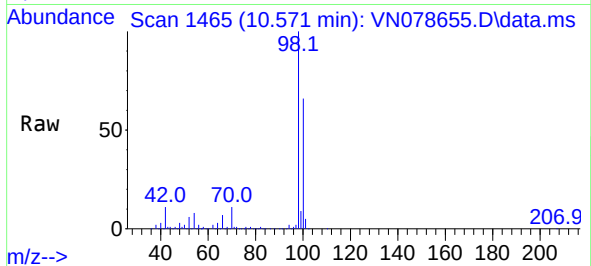




#50
Toluene-d8
Concen: 46.595 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

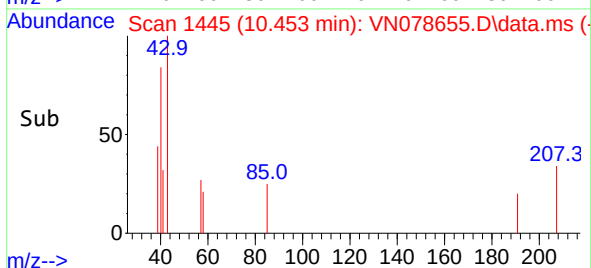
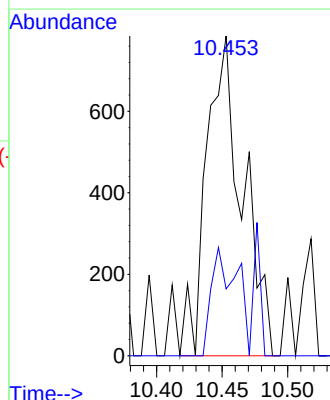
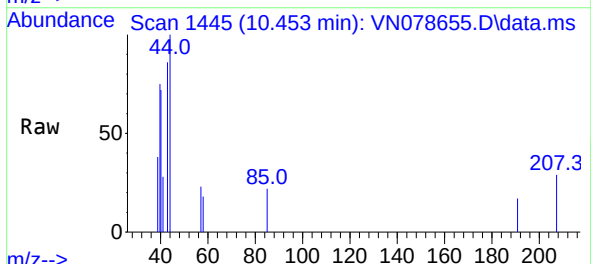
Instrument :
MSVOA_N
ClientSampleId :

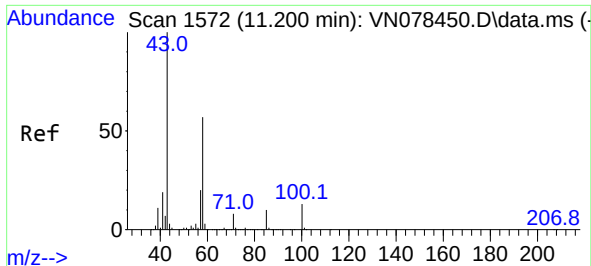
Tgt Ion: 98 Resp: 930040
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.242 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion: 43 Resp: 1509
Ion Ratio Lower Upper
43 100
58 23.7 36.6 54.8#

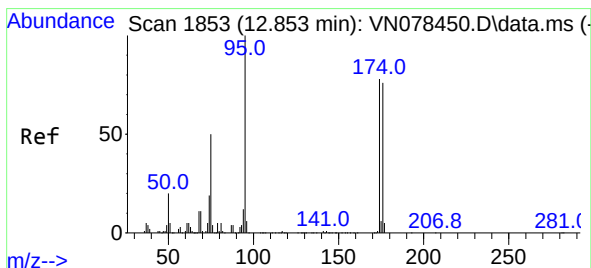
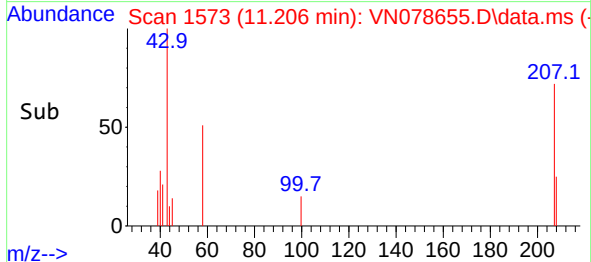
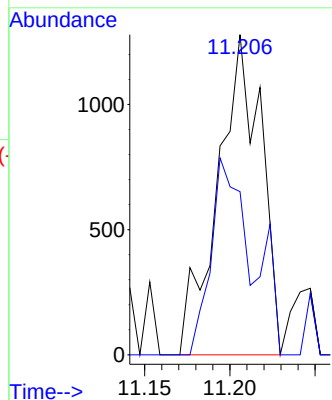
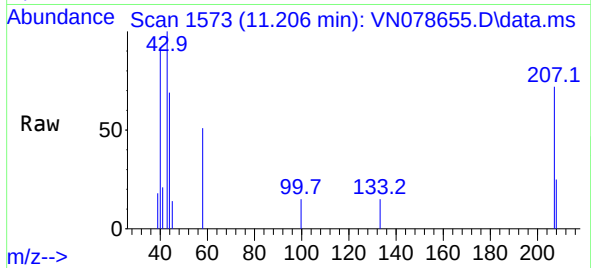




#59
2-Hexanone
Concen: 0.511 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

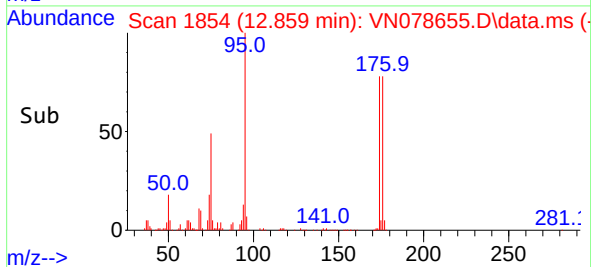
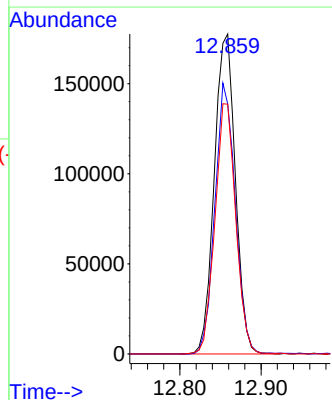
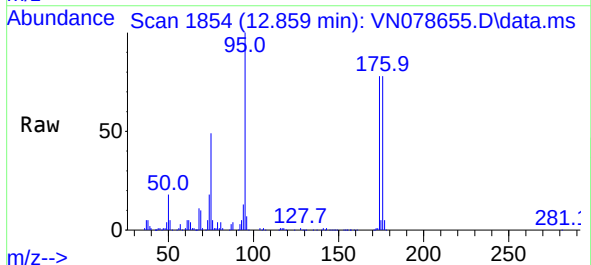
Instrument :
MSVOA_N
ClientSampleId :

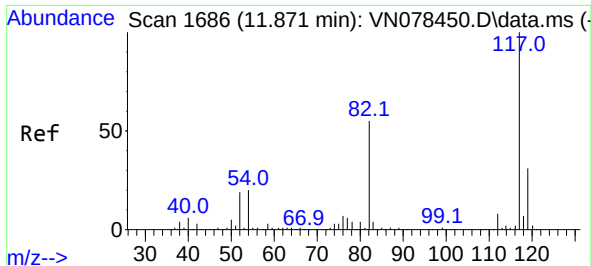
Tgt Ion: 43 Resp: 2260
Ion Ratio Lower Upper
43 100
58 58.2 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 52.124 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

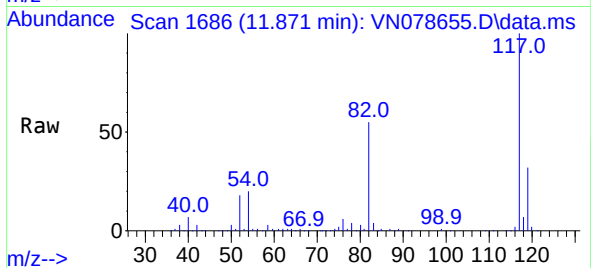
Tgt Ion: 95 Resp: 320468
Ion Ratio Lower Upper
95 100
174 82.0 0.0 143.8
176 77.4 0.0 135.8



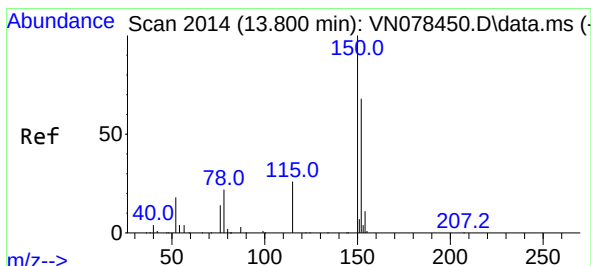
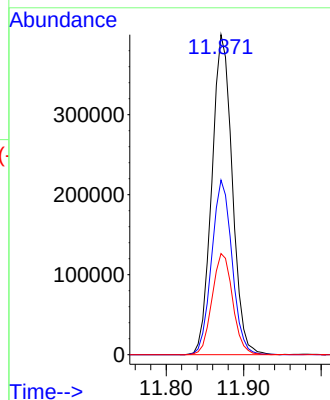
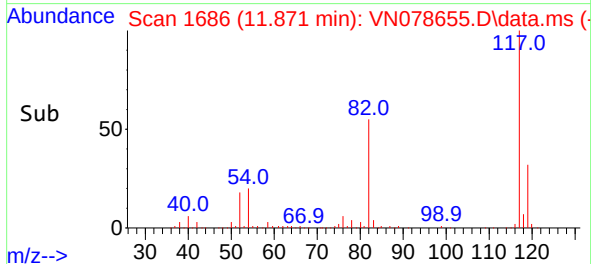


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

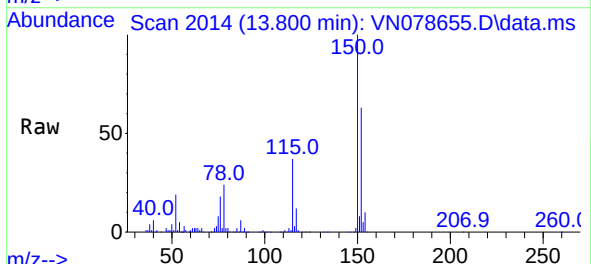
Instrument :
MSVOA_N
ClientSampleId :



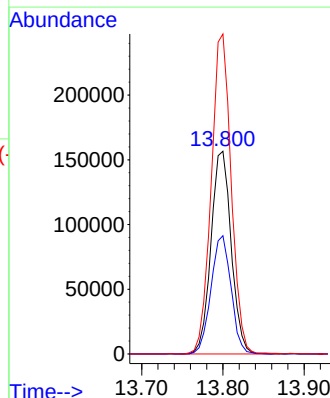
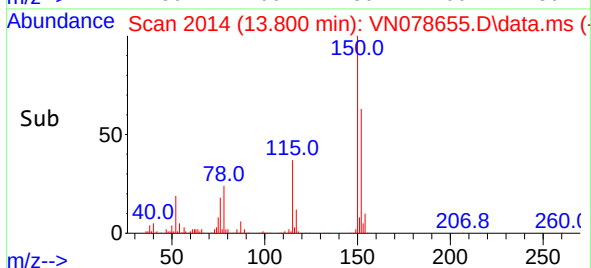
Tgt Ion:117 Resp: 732185
Ion Ratio Lower Upper
117 100
82 54.5 44.0 66.0
119 31.6 25.6 38.4

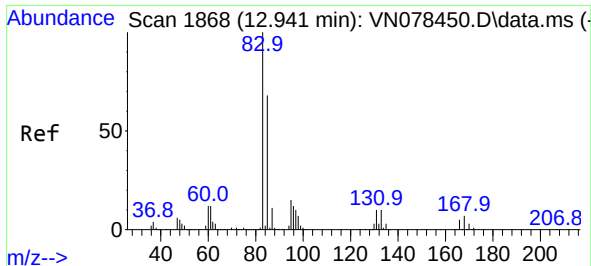


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57



Tgt Ion:152 Resp: 270961
Ion Ratio Lower Upper
152 100
115 57.8 32.3 96.8
150 155.8 0.0 355.8

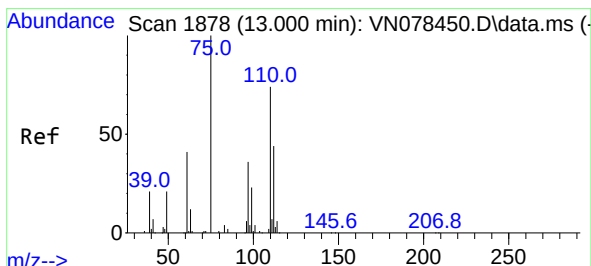
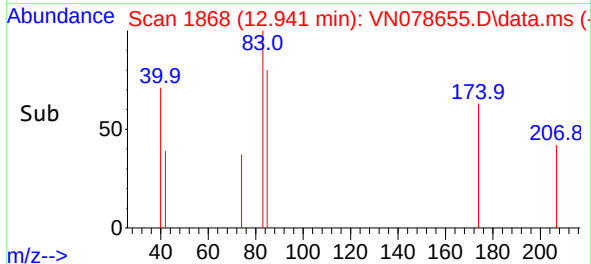
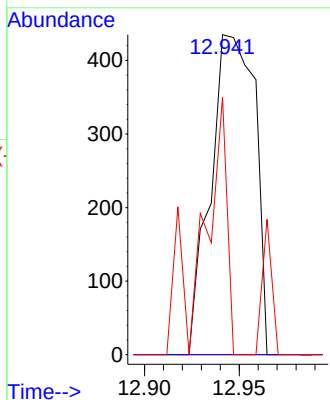
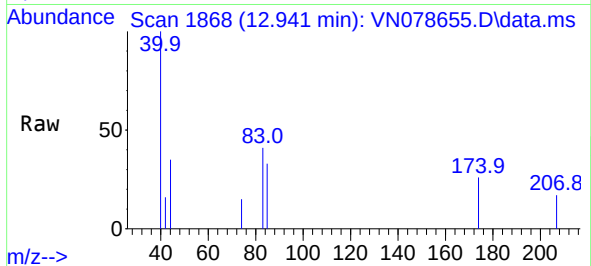




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.941 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

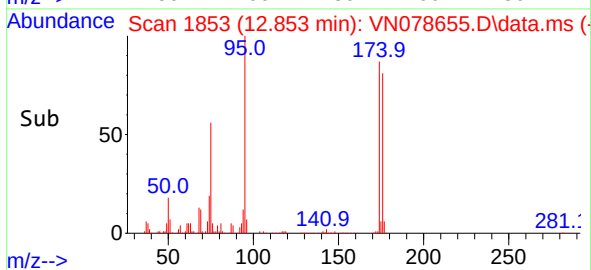
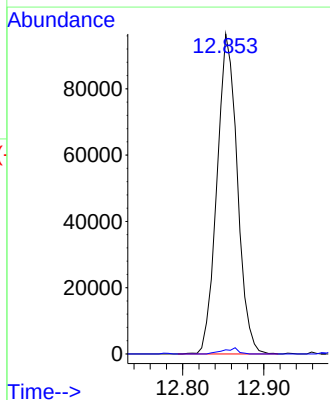
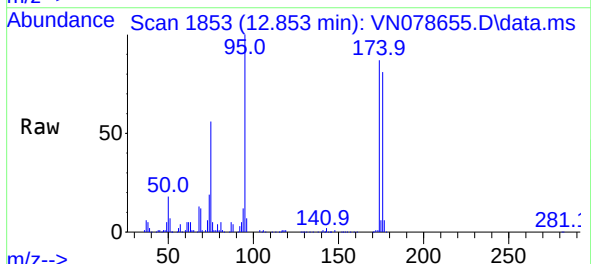
Instrument :
MSVOA_N
ClientSampleId :

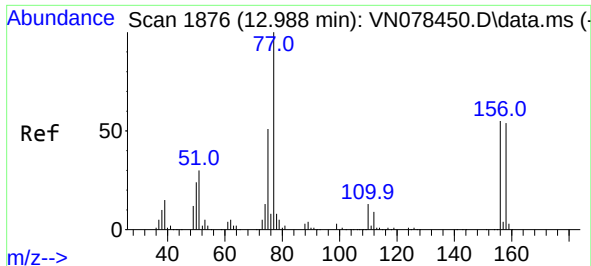
Tgt Ion: 83 Resp: 710
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 34.5 31.9 95.7



#76
1,2,3-Trichloropropane
Concen: 25.716 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion: 75 Resp: 168423
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#

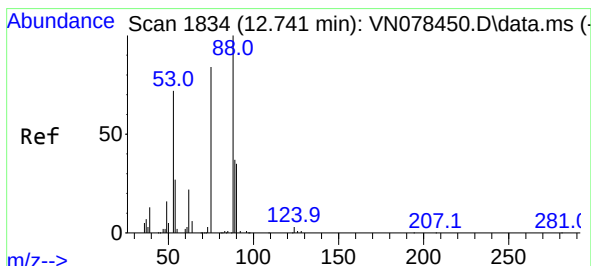
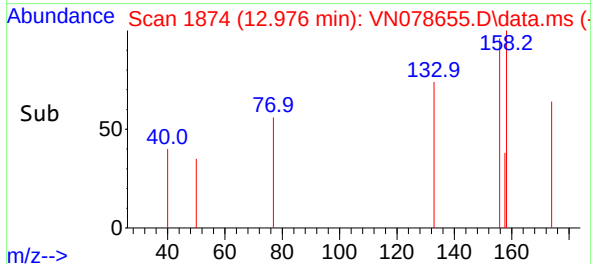
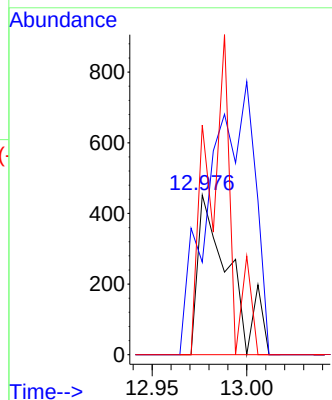
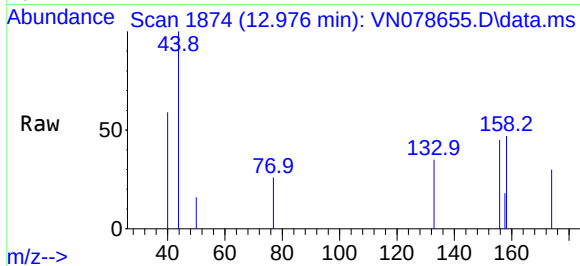




#77
Bromobenzene
Concen: Below Cal
RT: 12.976 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

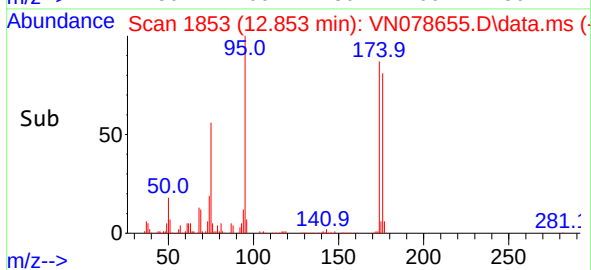
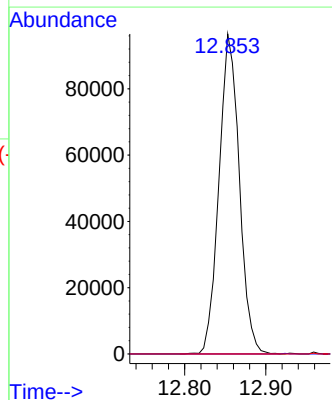
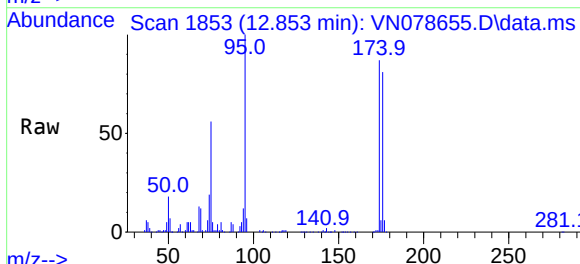
Instrument :
MSVOA_N
ClientSampleId :

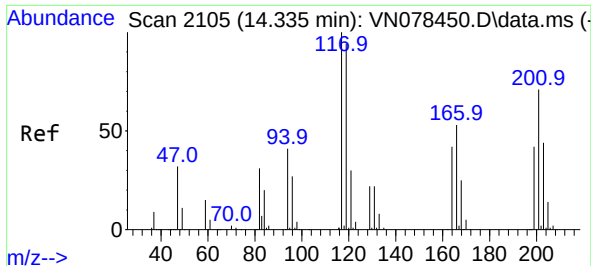
Tgt Ion:156 Resp: 524
Ion Ratio Lower Upper
156 100
77 0.0 107.7 323.3#
158 0.0 48.4 145.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.576 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion: 75 Resp: 168423
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

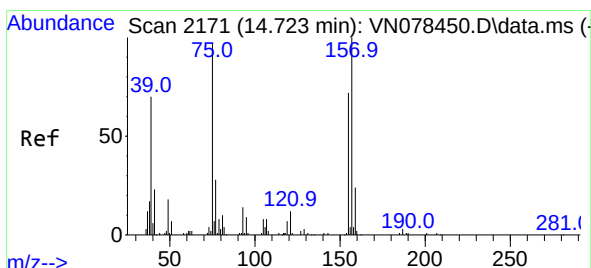
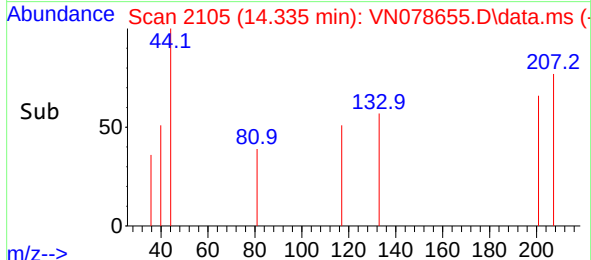
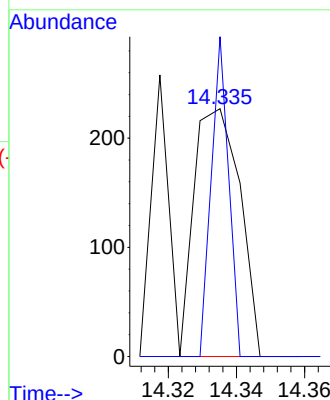
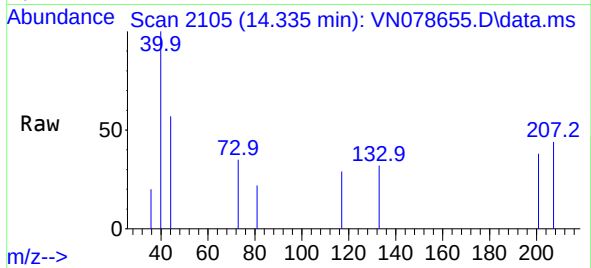




#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.335 min Scan# 2105
 Delta R.T. 0.000 min
 Lab File: VN078655.D
 Acq: 27 Jul 2023 11:57

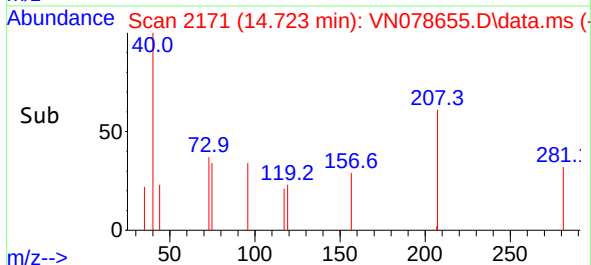
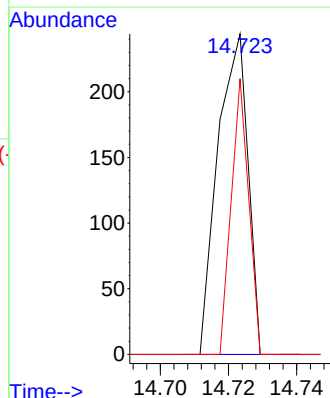
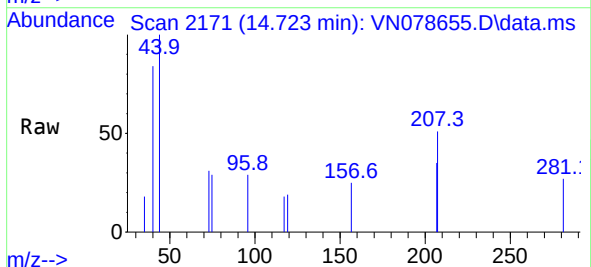
Instrument :
 MSVOA_N
 ClientSampleId :

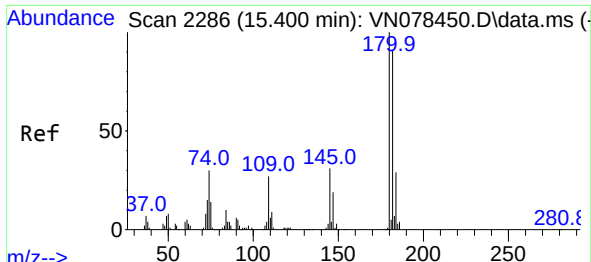
Tgt Ion:117 Resp: 213
 Ion Ratio Lower Upper
 117 100
 201 48.4 29.3 88.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.723 min Scan# 2171
 Delta R.T. 0.000 min
 Lab File: VN078655.D
 Acq: 27 Jul 2023 11:57

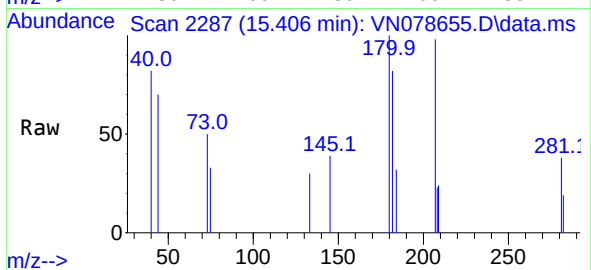
Tgt Ion: 75 Resp: 149
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.1 117.2#
 157 49.7 50.3 150.9#



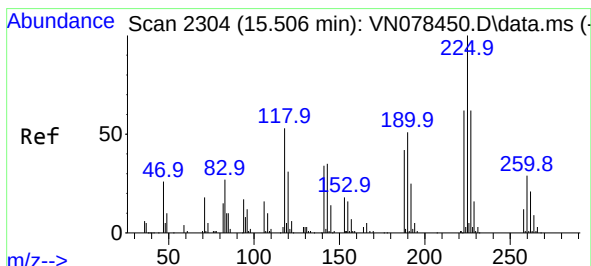
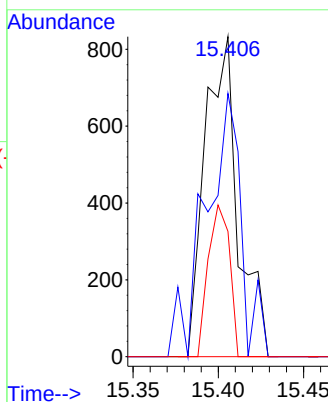
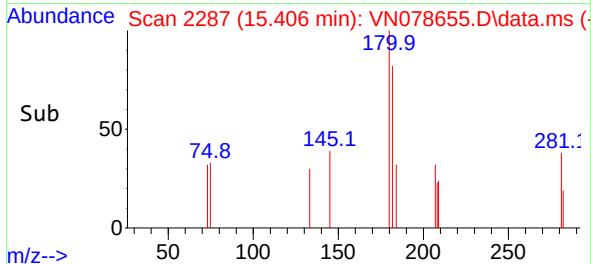


#93
1,2,4-Trichlorobenzene
Concen: 0.362 ug/l
RT: 15.406 min Scan# 211
Delta R.T. 0.006 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

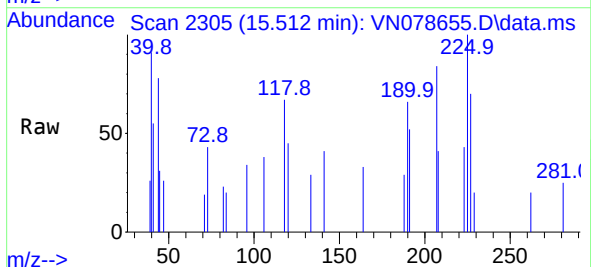
Instrument :
MSVOA_N
ClientSampleId :



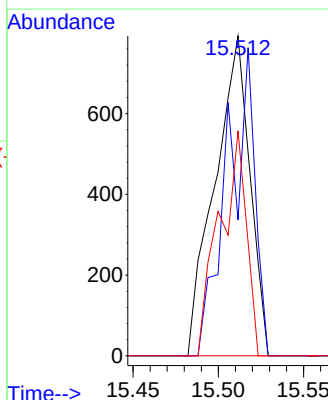
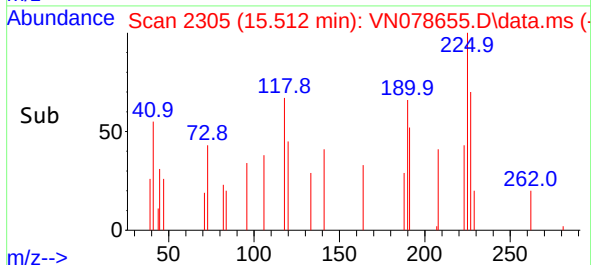
Tgt Ion:180 Resp: 1125
Ion Ratio Lower Upper
180 100
182 88.5 46.1 138.2
145 30.6 16.6 49.8

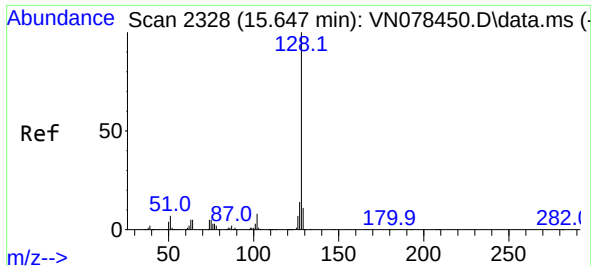


#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.512 min Scan# 2305
Delta R.T. 0.006 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57



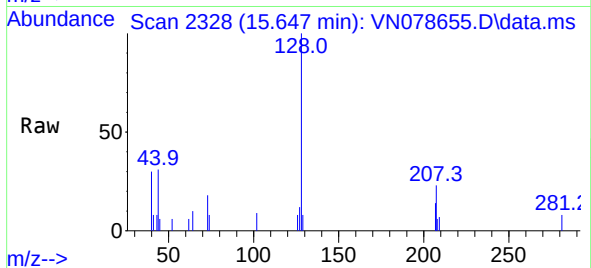
Tgt Ion:225 Resp: 1132
Ion Ratio Lower Upper
225 100
223 75.0 31.3 93.8
227 53.8 31.9 95.9



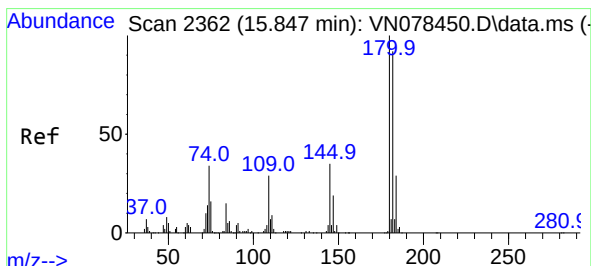
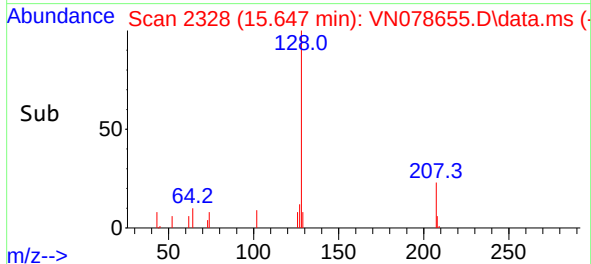
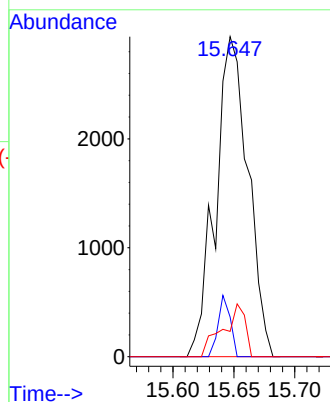


#95
Naphthalene
Concen: 0.514 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 5458
Ion Ratio Lower Upper
128 100
127 7.1 10.0 15.0#
129 11.3 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.497 ug/l
RT: 15.847 min Scan# 2362
Delta R.T. -0.000 min
Lab File: VN078655.D
Acq: 27 Jul 2023 11:57

Tgt Ion:180 Resp: 1775
Ion Ratio Lower Upper
180 100
182 86.1 46.2 138.6
145 15.8 17.5 52.6#

