

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021924\
 Data File : VN081075.D
 Acq On : 19 Feb 2024 14:54
 Operator : JC\MD
 Sample : PB159057ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159057ZHE#03

Quant Time: Feb 20 00:22:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

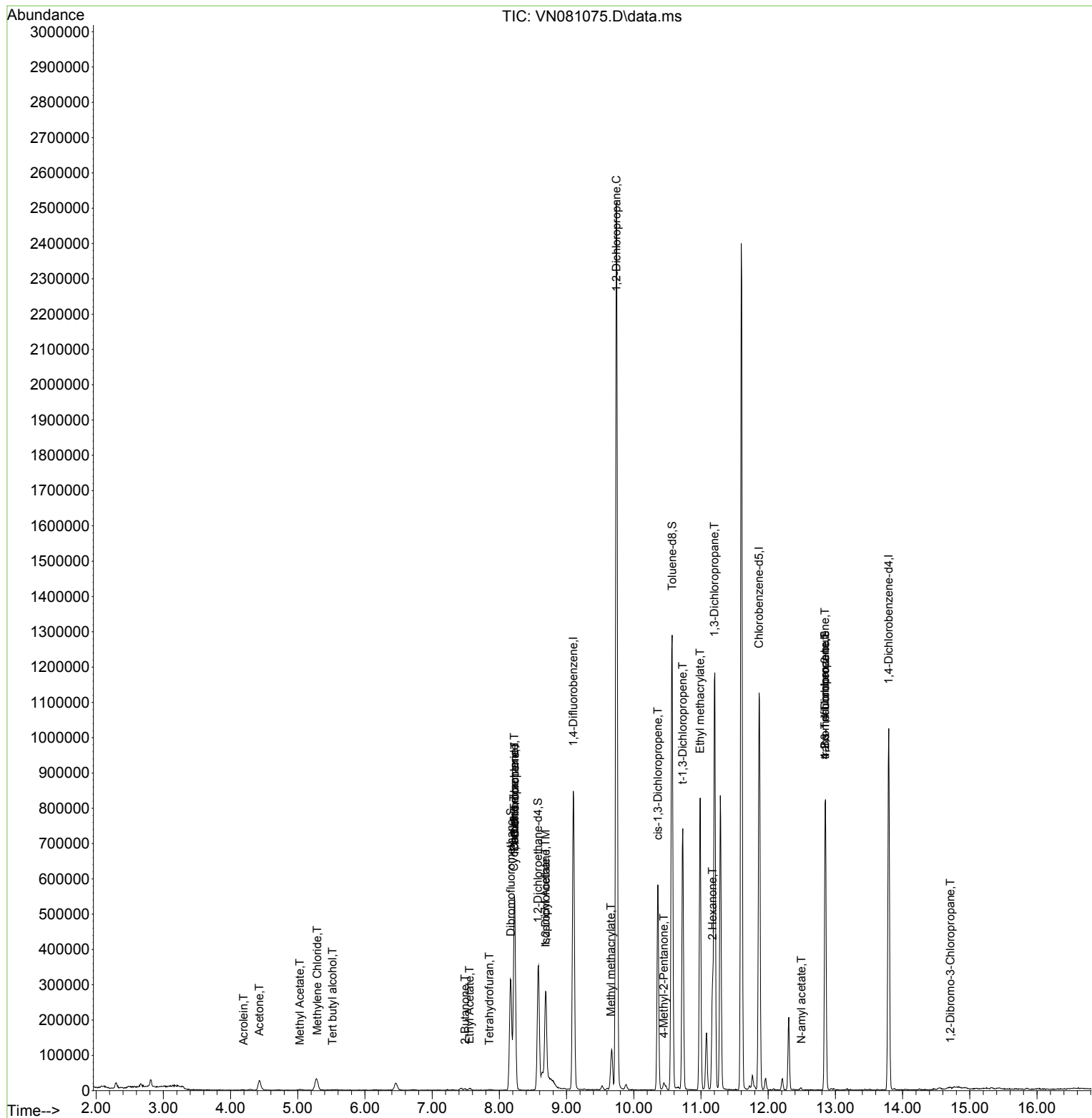
Internal Standards						
1) Pentafluorobenzene	8.224	168	391760	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	748629	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	658939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	267013	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	285013	59.354	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.700%			
35) Dibromofluoromethane	8.171	113	226234	53.442	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.880%			
50) Toluene-d8	10.571	98	886195	58.940	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 117.880%#			
62) 4-Bromofluorobenzene	12.847	95	296134	52.417	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.840%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	2233	Below Cal	#	85
6) Chloroethane	3.112	64	1148	Below Cal		97
11) Tert butyl alcohol	5.518	59	741	0.839	ug/l #	72
13) Acrolein	4.195	56	1500	3.169	ug/l	97
16) Acetone	4.430	43	52085	27.566	ug/l	97
18) Methyl Acetate	5.030	43	3564	0.773	ug/l #	73
20) Methylene Chloride	5.289	84	25775	4.426	ug/l #	77
25) 2-Butanone	7.488	43	6587	2.158	ug/l #	89
29) Tetrahydrofuran	7.853	42	1553	0.762	ug/l #	73
31) Cyclohexane	8.218	56	10638	1.283	ug/l #	25
36) 1,1-Dichloropropene	8.230	75	33543	4.625	ug/l #	51
37) Ethyl Acetate	7.559	43	8540	1.305	ug/l #	91
38) Carbon Tetrachloride	8.224	117	42604	5.806	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	2500	0.341	ug/l #	75
43) Isopropyl Acetate	8.688	43	380645	33.251	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	3095	0.589	ug/l #	42
48) Methyl methacrylate	9.659	41	7093	1.332	ug/l #	47
49) 1,4-Dioxane	9.682	88	305	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.447	43	13145	1.996	ug/l	99
53) t-1,3-Dichloropropene	10.729	75	2167	0.269	ug/l	93
54) cis-1,3-Dichloropropene	10.359	75	107533	12.360	ug/l #	58
56) Ethyl methacrylate	10.988	69	2191	0.280	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	13053	1.477	ug/l #	44
59) 2-Hexanone	11.171	43	239043	45.787	ug/l #	26
74) N-amyl acetate	12.494	43	2295	0.232	ug/l #	58
76) 1,2,3-Trichloropropane	12.847	75	153148	25.244	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	153148	64.976	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.712	75	764	0.559	ug/l #	13

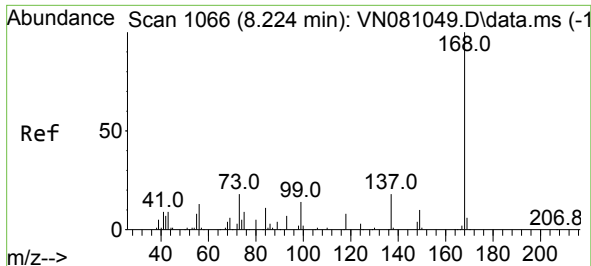
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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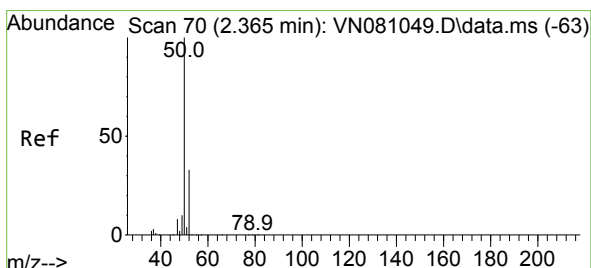
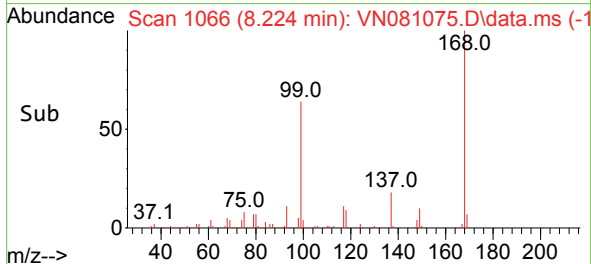
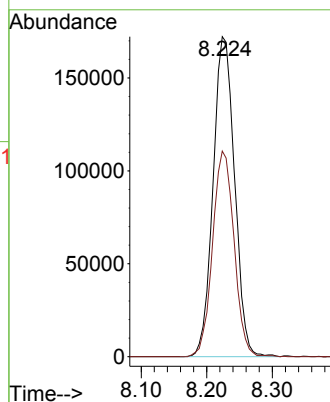
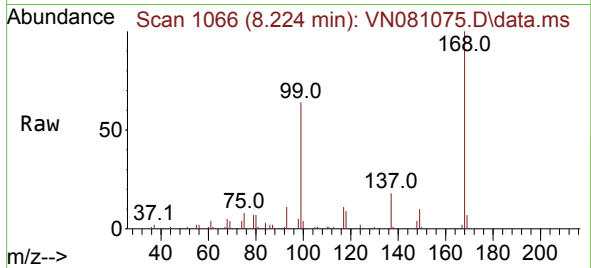




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

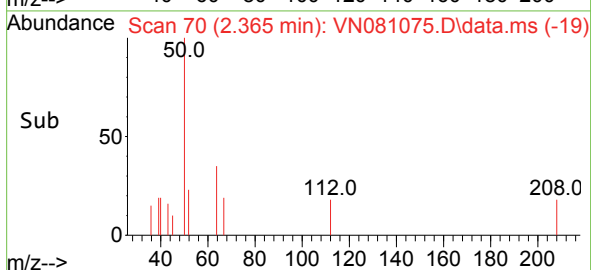
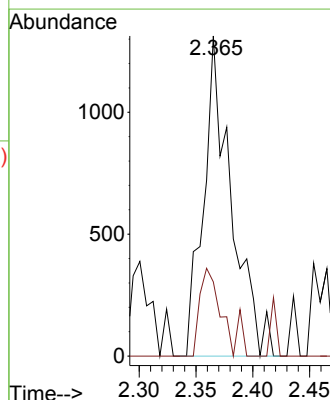
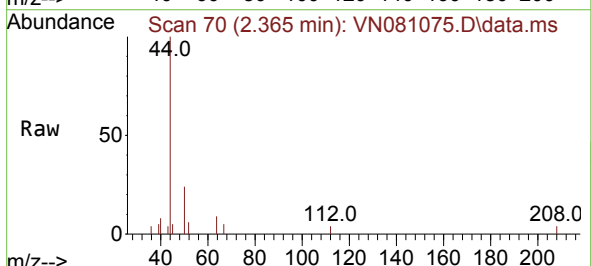
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

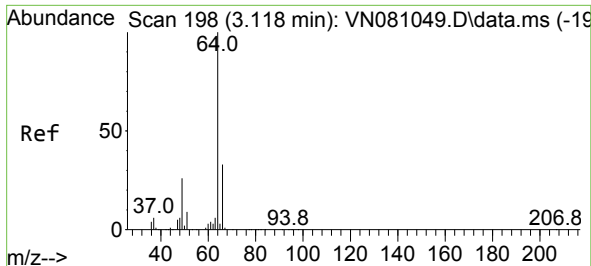
Tgt Ion:168 Resp: 391760
Ion Ratio Lower Upper
168 100
99 64.2 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 50 Resp: 2233
Ion Ratio Lower Upper
50 100
52 23.2 25.0 37.4#

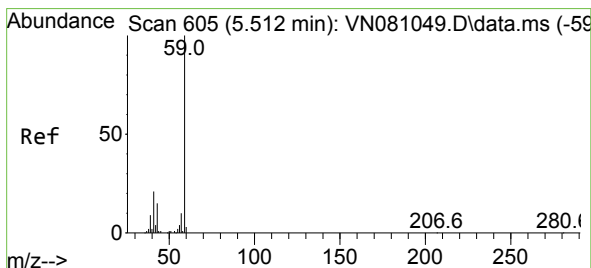
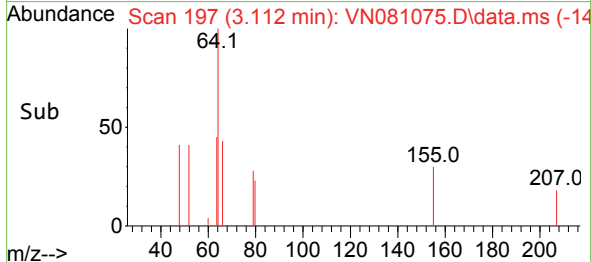
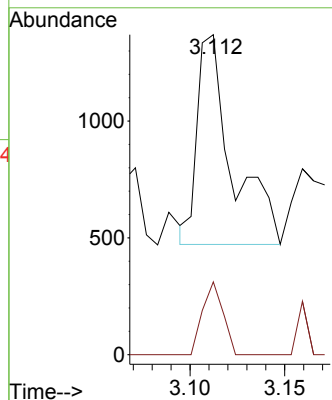
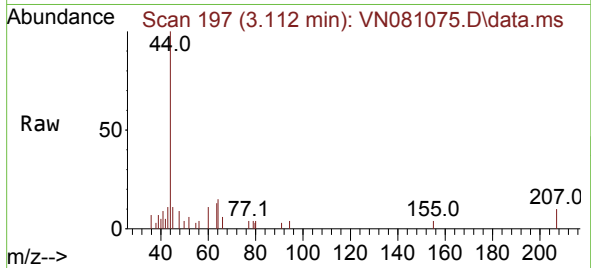




#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 19
Delta R.T. -0.006 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

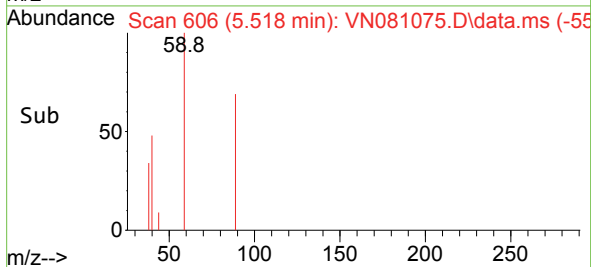
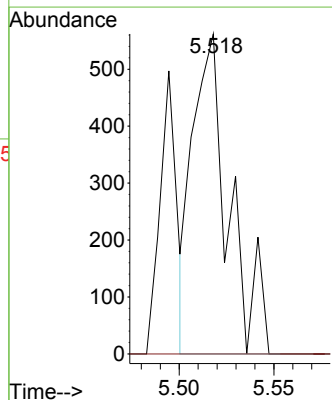
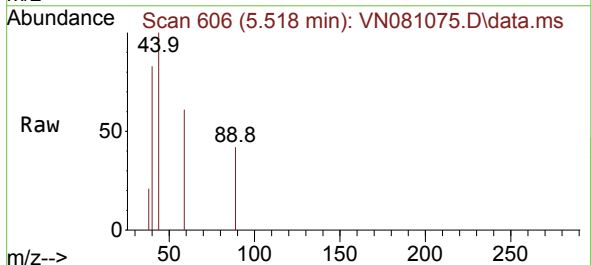
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

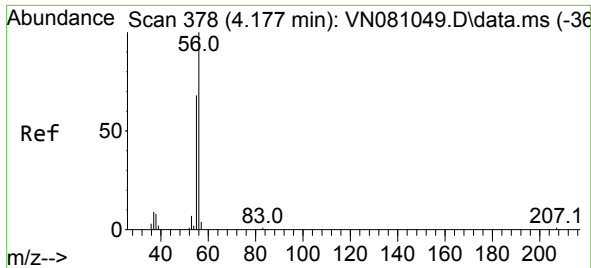
Tgt Ion: 64 Resp: 1148
Ion Ratio Lower Upper
64 100
66 34.7 26.4 39.6



#11
Tert butyl alcohol
Concen: 0.839 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 59 Resp: 741
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

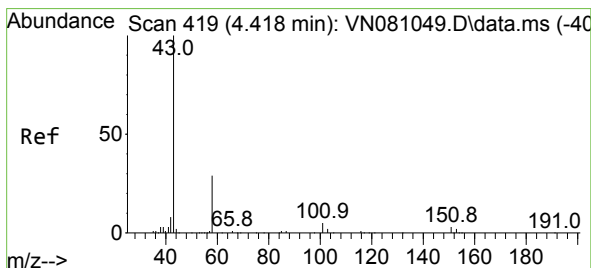
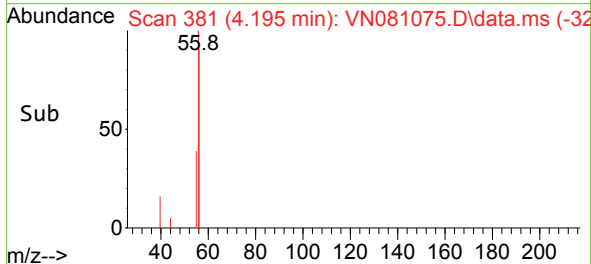
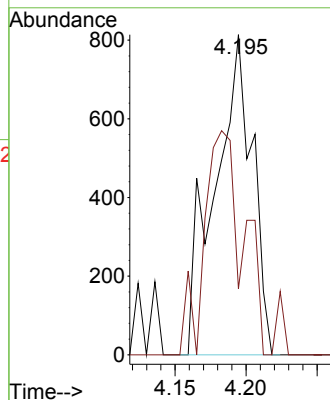
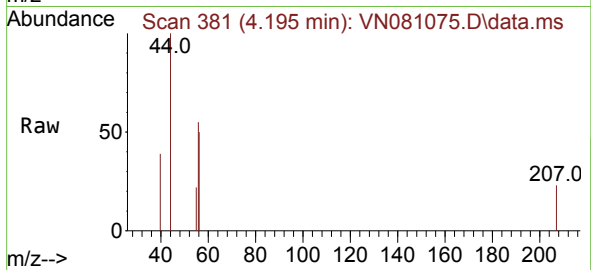




#13
Acrolein
Concen: 3.169 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

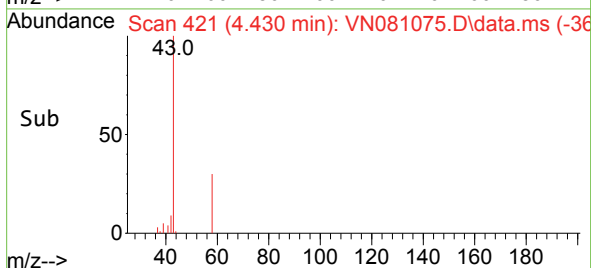
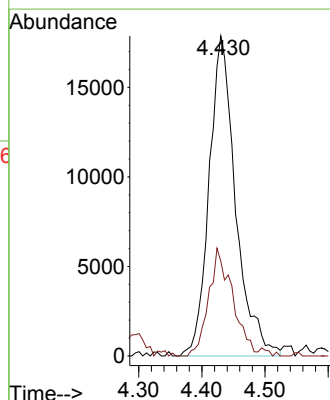
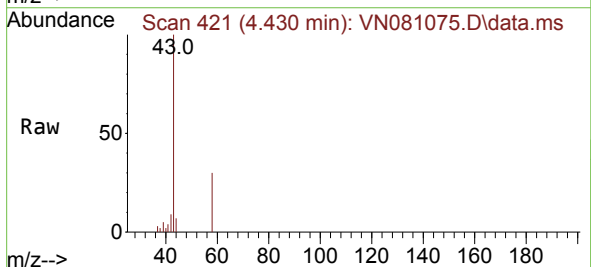
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

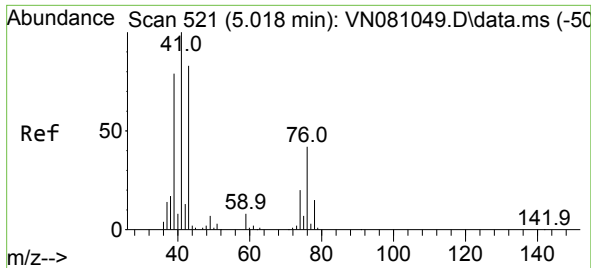
Tgt Ion: 56 Resp: 1500
Ion Ratio Lower Upper
56 100
55 71.9 55.3 82.9



#16
Acetone
Concen: 27.566 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 43 Resp: 52085
Ion Ratio Lower Upper
43 100
58 29.6 24.8 37.2

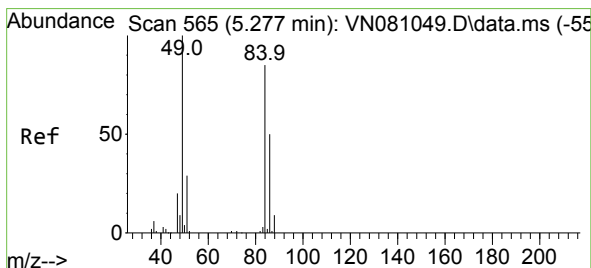
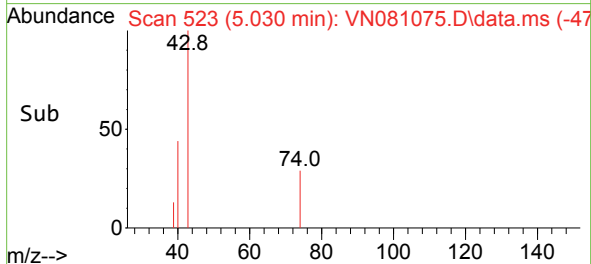
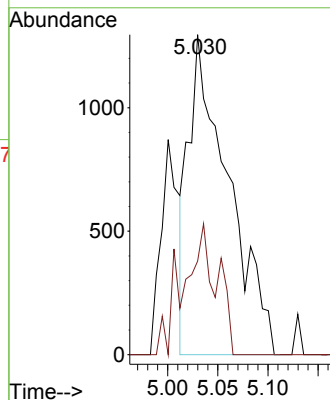
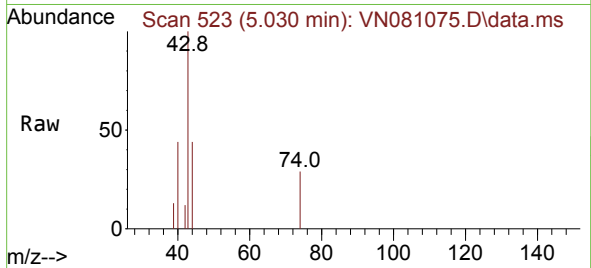




#18
Methyl Acetate
Concen: 0.773 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

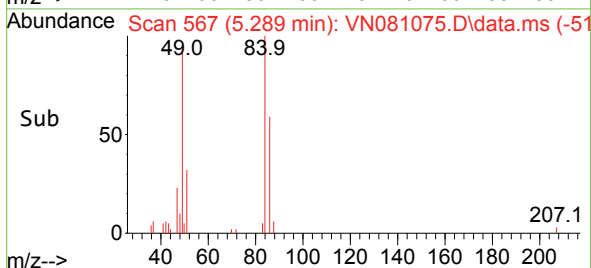
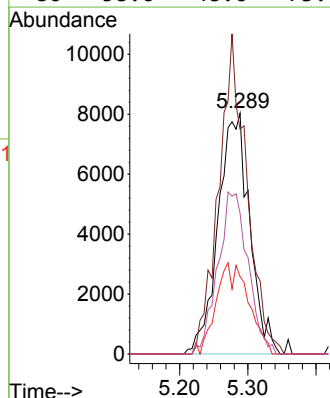
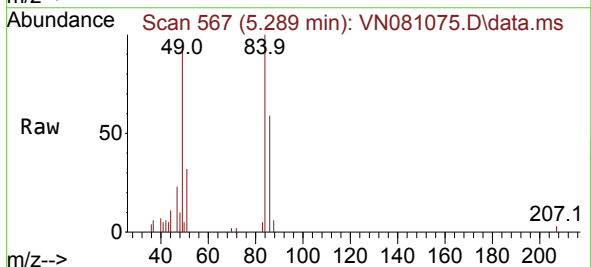
Instrument :
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PB159057ZHE#03

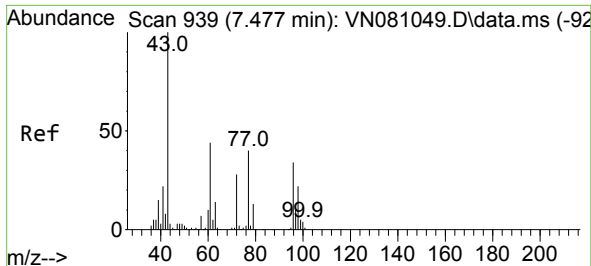
Tgt Ion: 43 Resp: 3564
Ion Ratio Lower Upper
43 100
74 34.5 17.3 25.9#



#20
Methylene Chloride
Concen: 4.426 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.012 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 84 Resp: 25775
Ion Ratio Lower Upper
84 100
49 93.5 108.1 162.1#
51 32.2 32.9 49.3#
86 58.6 48.6 73.0

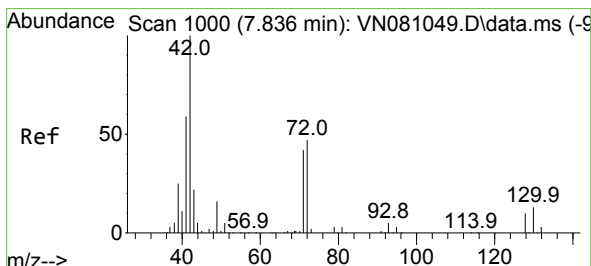
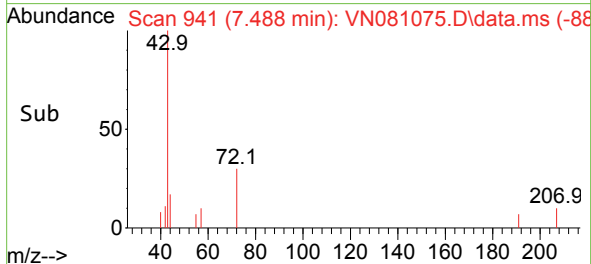
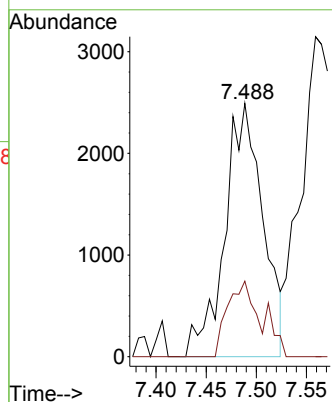
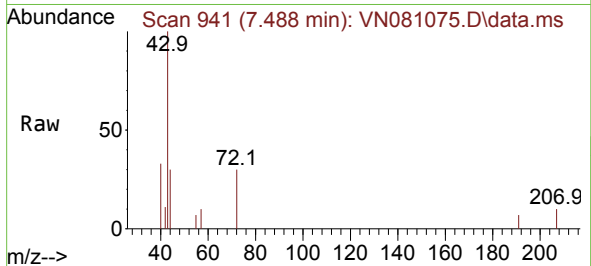




#25
2-Butanone
Concen: 2.158 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

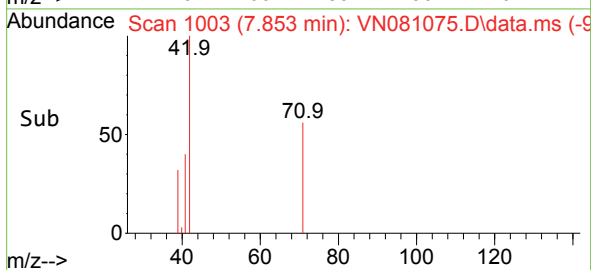
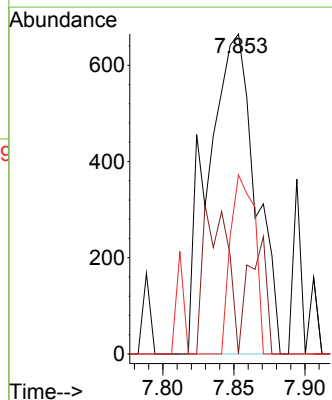
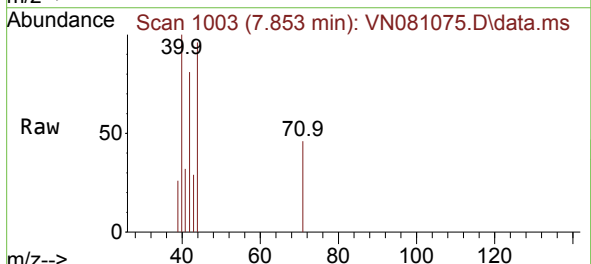
Instrument :
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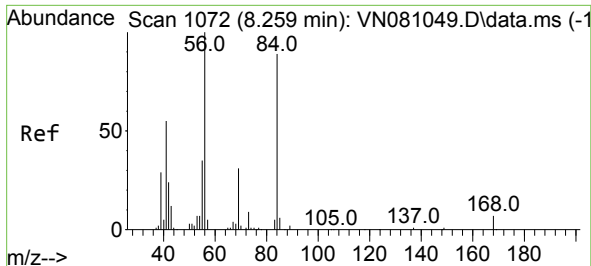
Tgt Ion: 43 Resp: 6587
Ion Ratio Lower Upper
43 100
72 29.9 19.5 29.3#



#29
Tetrahydrofuran
Concen: 0.762 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

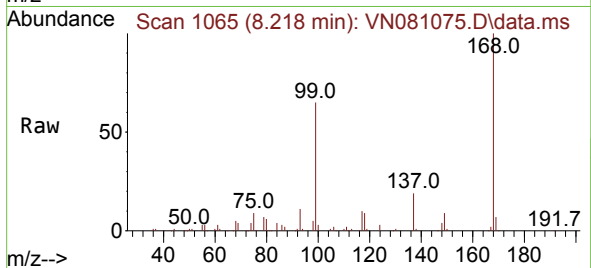
Tgt Ion: 42 Resp: 1553
Ion Ratio Lower Upper
42 100
72 13.7 31.1 46.7#
71 28.5 28.3 42.5



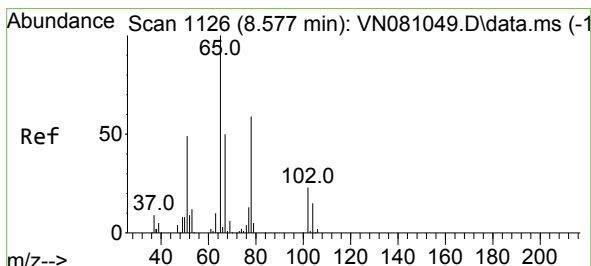
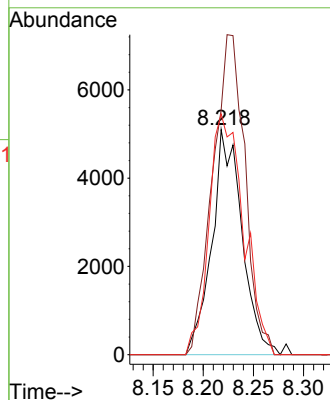
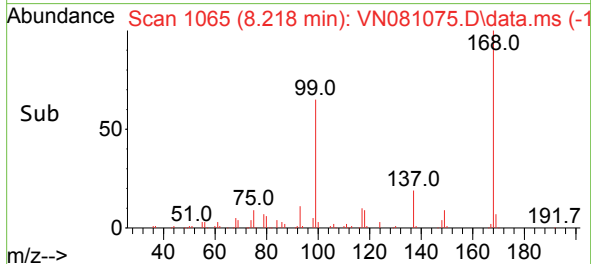


#31
Cyclohexane
Concen: 1.283 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN081075.D
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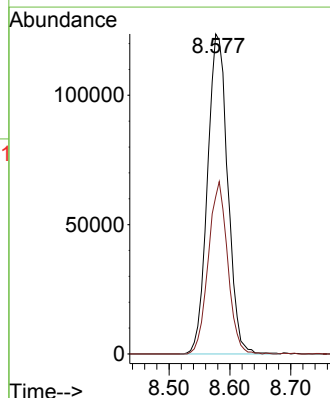
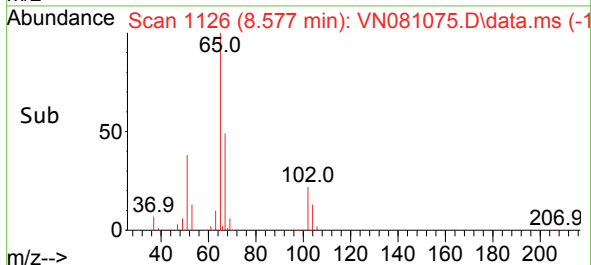
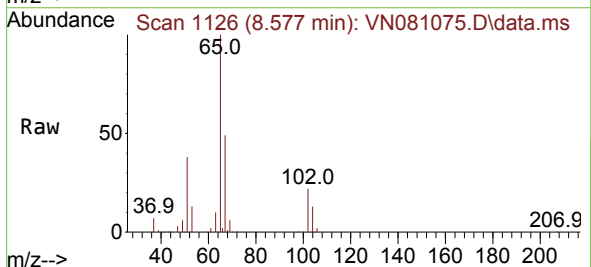


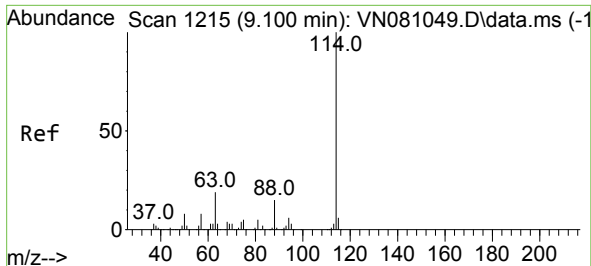
Tgt Ion: 56 Resp: 10638
Ion Ratio Lower Upper
56 100
69 108.7 20.1 30.1#
84 106.9 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 59.354 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 65 Resp: 285013
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.4

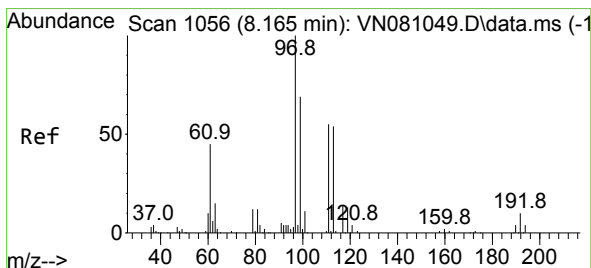
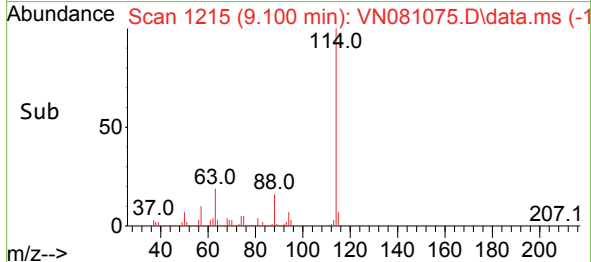
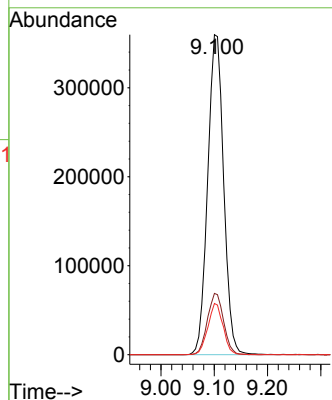
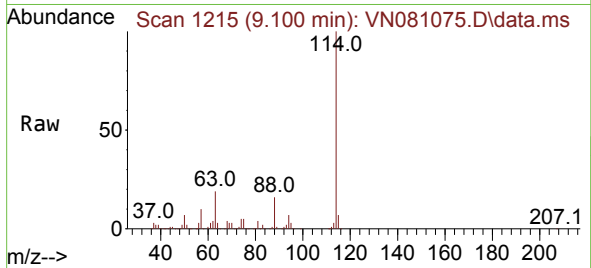




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

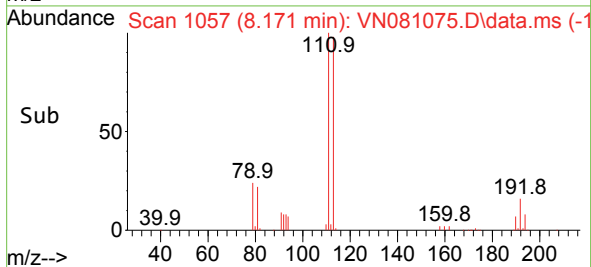
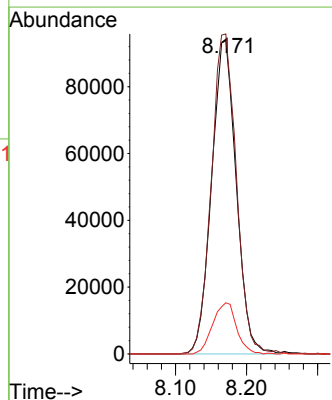
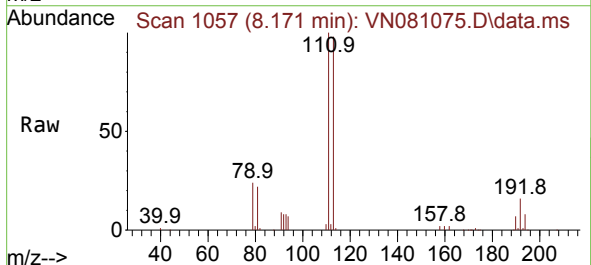
Instrument :
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ClientSampleId :
PB159057ZHE#03

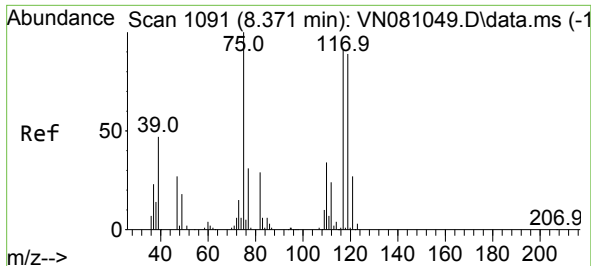
Tgt Ion:114 Resp: 748629
Ion Ratio Lower Upper
114 100
63 19.2 0.0 48.0
88 16.0 0.0 34.8



#35
Dibromofluoromethane
Concen: 53.442 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion:113 Resp: 226234
Ion Ratio Lower Upper
113 100
111 103.4 82.2 123.4
192 15.8 12.5 18.7

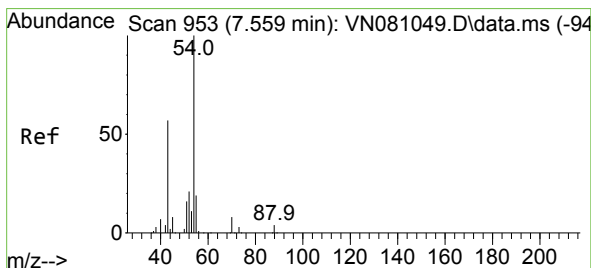
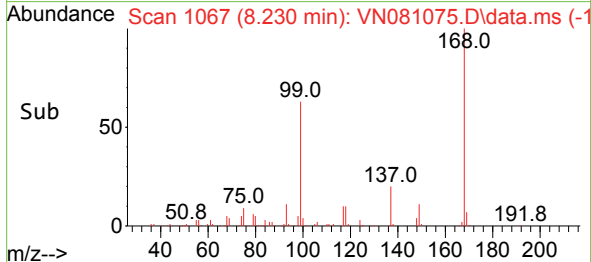
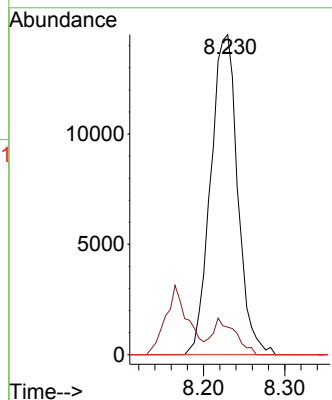
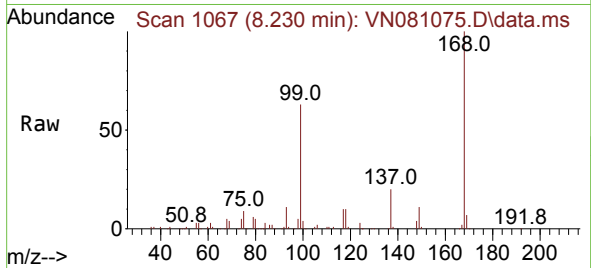




#36
1,1-Dichloropropene
Concen: 4.625 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

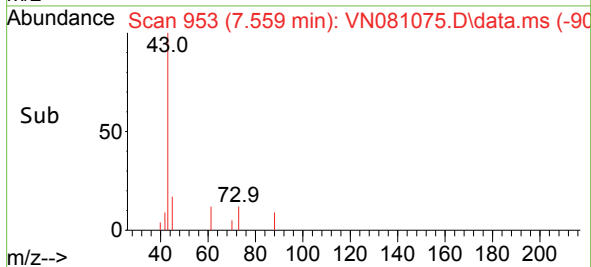
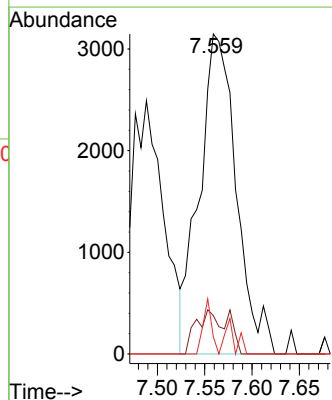
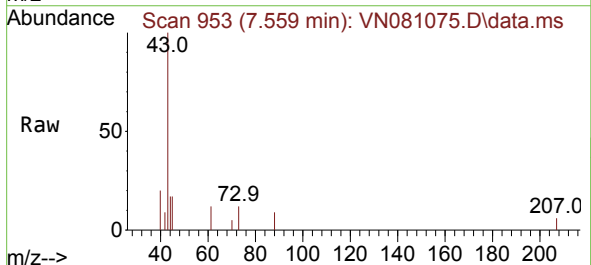
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

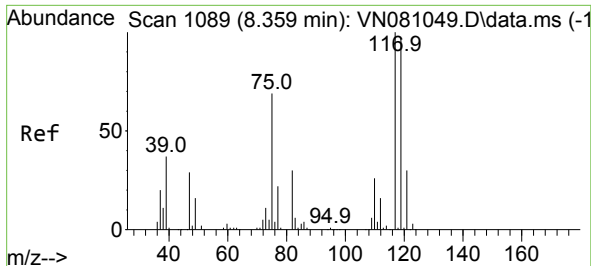
Tgt Ion: 75 Resp: 33543
Ion Ratio Lower Upper
75 100
110 9.6 16.0 48.0#
77 0.0 25.8 38.6#



#37
Ethyl Acetate
Concen: 1.305 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

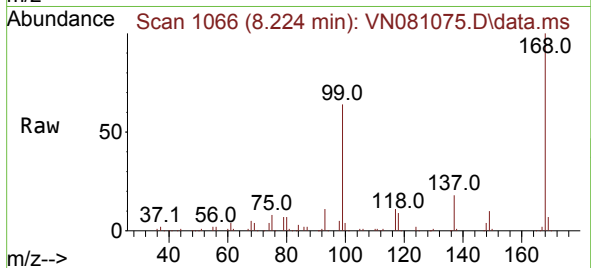
Tgt Ion: 43 Resp: 8540
Ion Ratio Lower Upper
43 100
61 11.6 10.6 15.8
70 4.0 8.0 12.0#



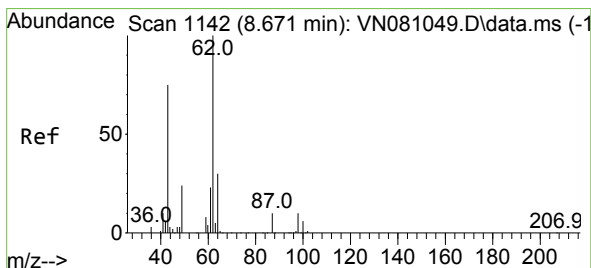
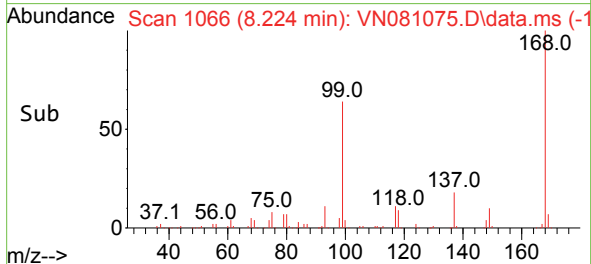
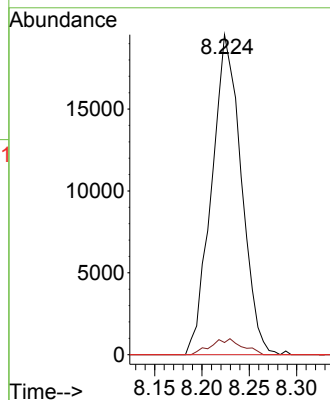


#38
Carbon Tetrachloride
Concen: 5.806 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

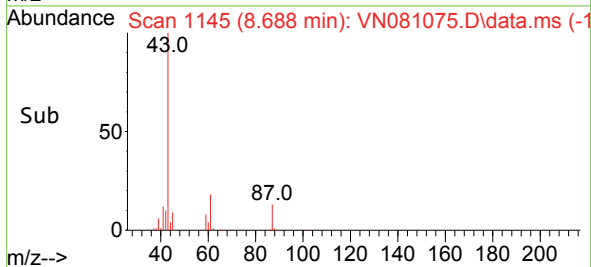
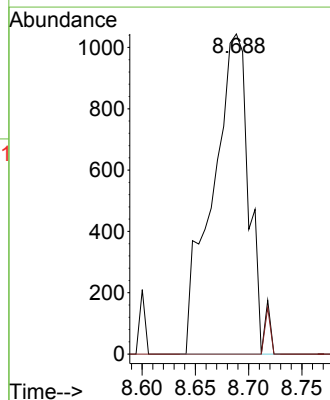
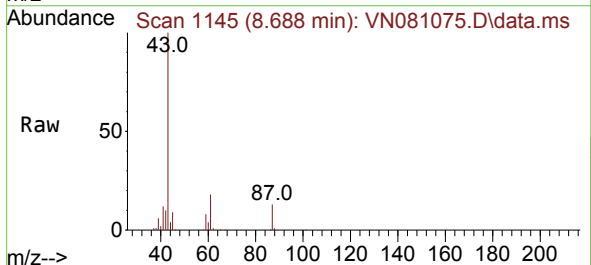


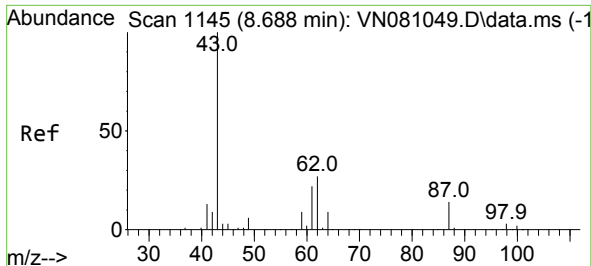
Tgt Ion:117 Resp: 42604
Ion Ratio Lower Upper
117 100
119 3.8 73.4 110.2#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.341 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 62 Resp: 2500
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.0

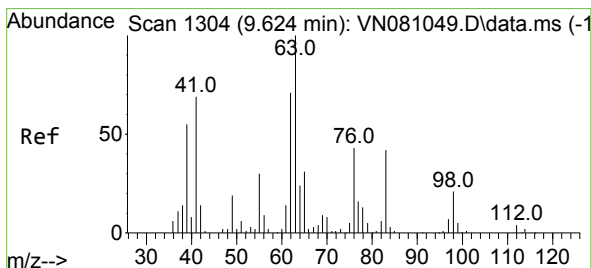
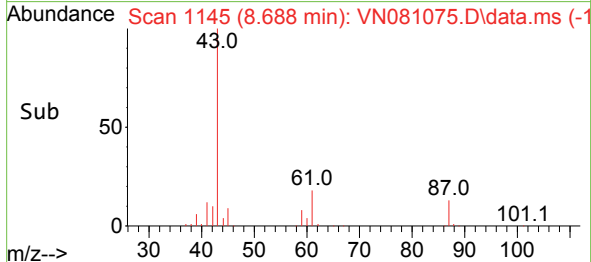
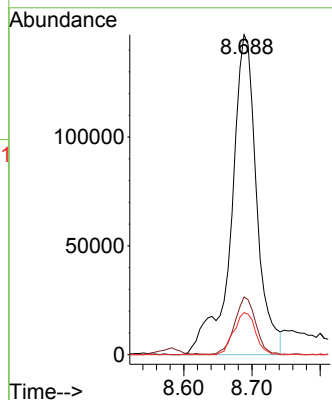
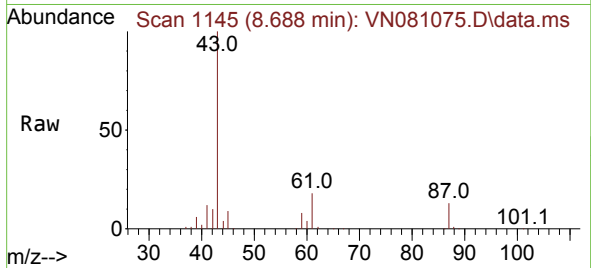




#43
Isopropyl Acetate
Concen: 33.251 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

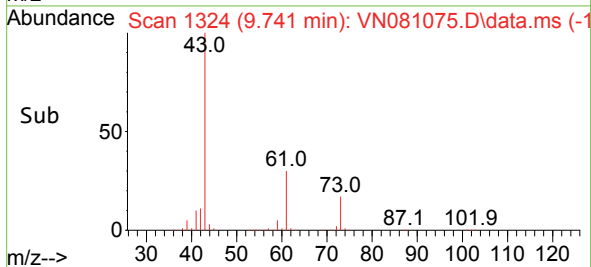
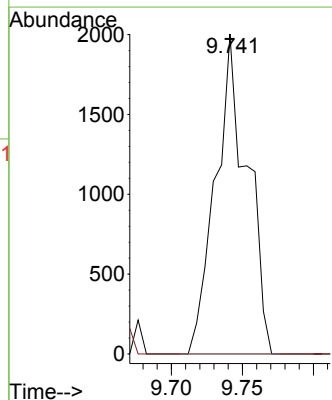
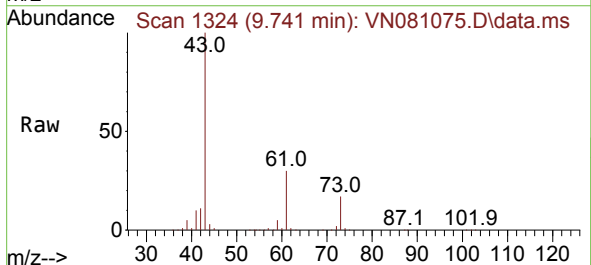
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

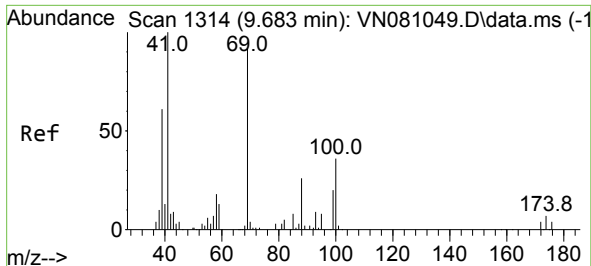
Tgt Ion: 43 Resp: 380645
Ion Ratio Lower Upper
43 100
61 14.8 19.9 29.9#
87 11.2 9.0 13.6



#45
1,2-Dichloropropane
Concen: 0.589 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 63 Resp: 3095
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#

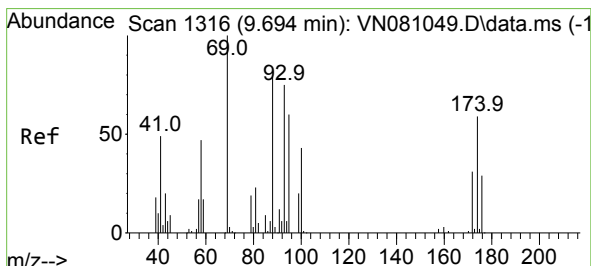
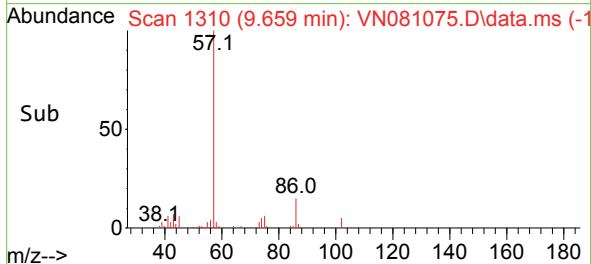
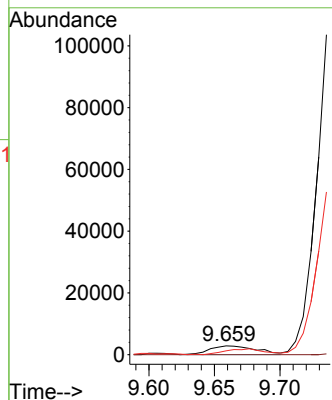
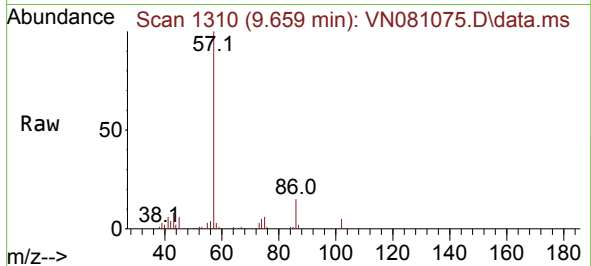




#48
Methyl methacrylate
Concen: 1.332 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

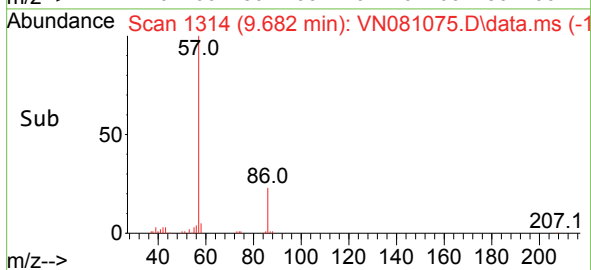
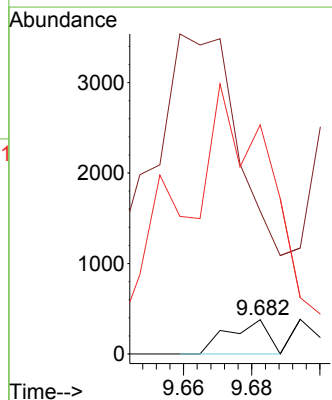
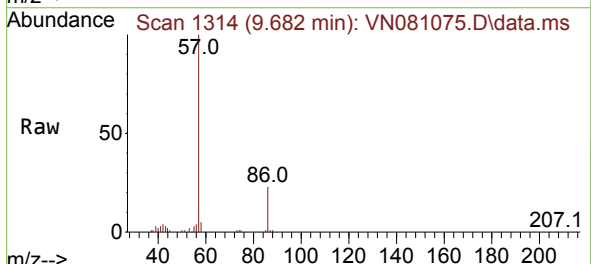
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

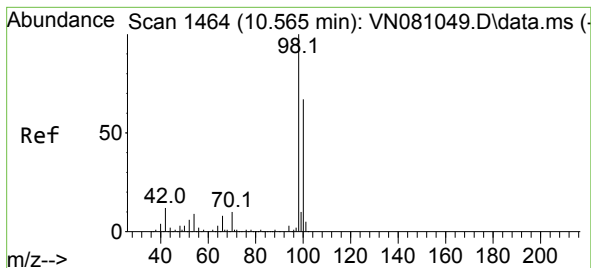
Tgt Ion: 41 Resp: 7093
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 55.9 47.6 71.4



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.682 min Scan# 1314
Delta R.T. -0.012 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 88 Resp: 305
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 1950.8 63.9 95.9#





#50

Toluene-d8

Concen: 58.940 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081075.D

Acq: 19 Feb 2024 14:54

Instrument :

MSVOA_N

ClientSampleId :

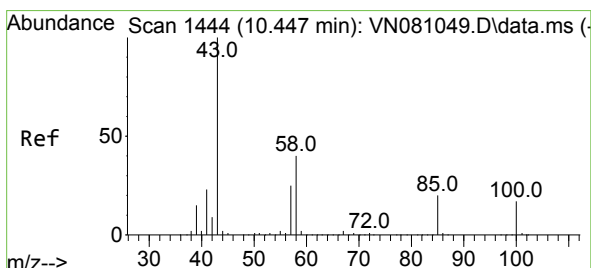
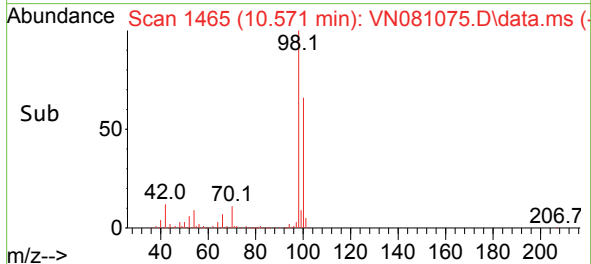
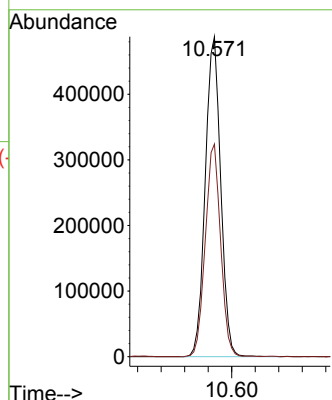
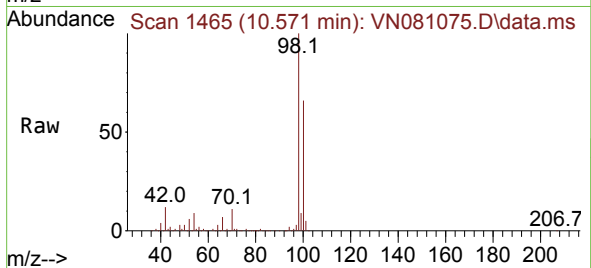
PB159057ZHE#03

Tgt Ion: 98 Resp: 886195

Ion Ratio Lower Upper

98 100

100 66.1 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.996 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN081075.D

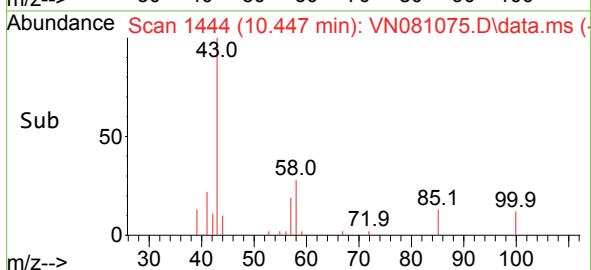
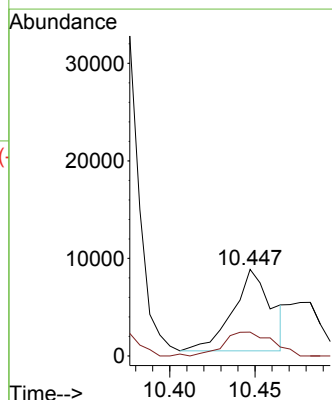
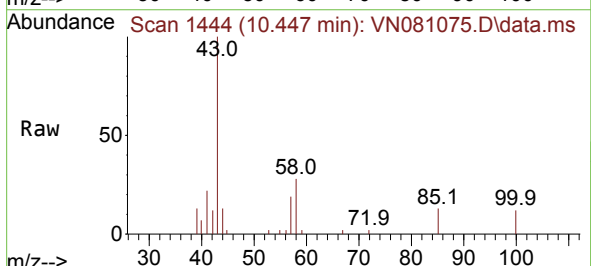
Acq: 19 Feb 2024 14:54

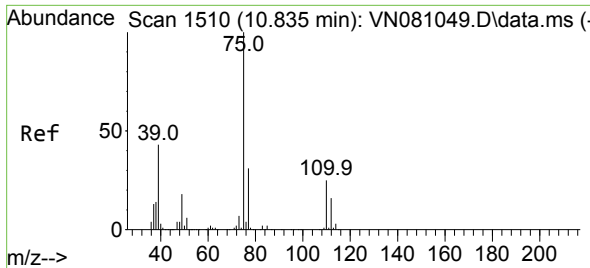
Tgt Ion: 43 Resp: 13145

Ion Ratio Lower Upper

43 100

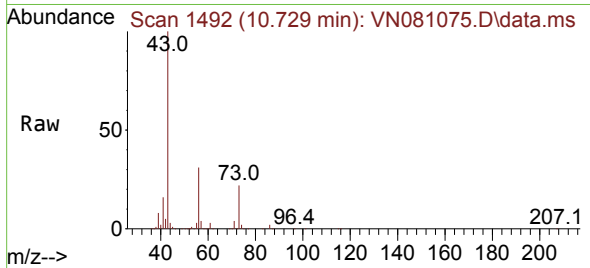
58 37.6 29.4 44.0



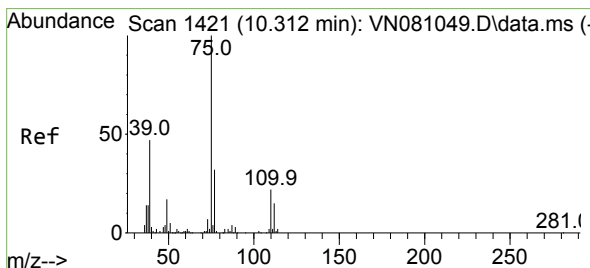
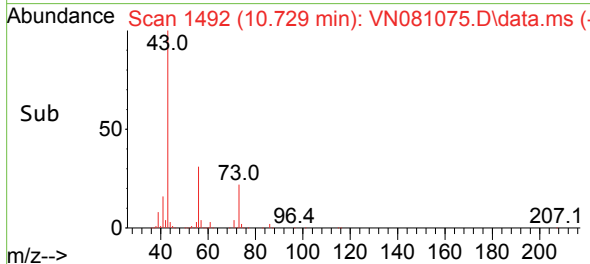
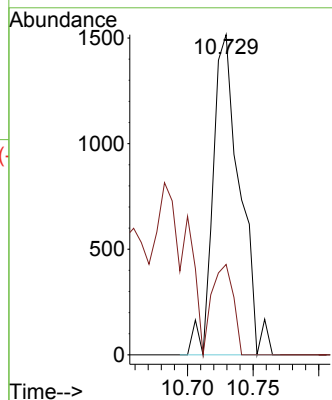


#53
 t-1,3-Dichloropropene
 Concen: 0.269 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN081075.D
 Acq: 19 Feb 2024 14:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159057ZHE#03

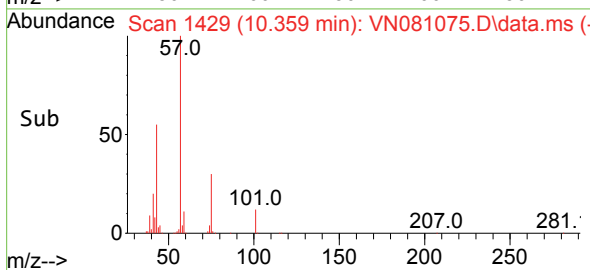
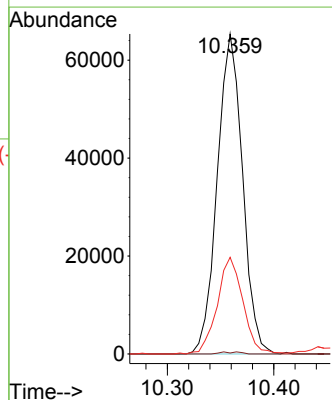
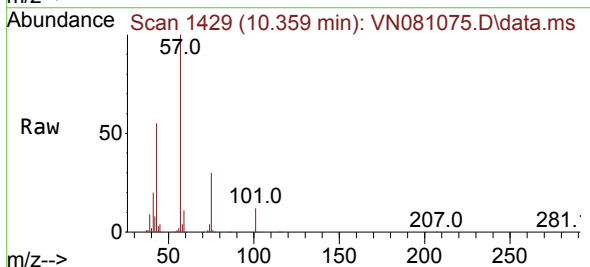


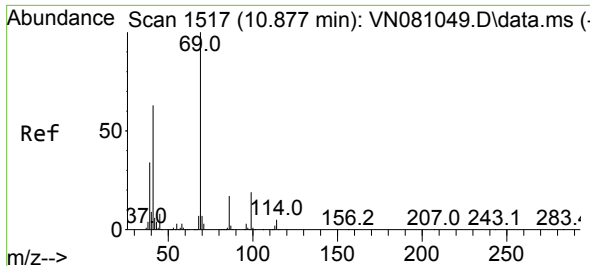
Tgt Ion: 75 Resp: 2167
 Ion Ratio Lower Upper
 75 100
 77 28.2 25.5 38.3



#54
 cis-1,3-Dichloropropene
 Concen: 12.360 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN081075.D
 Acq: 19 Feb 2024 14:54

Tgt Ion: 75 Resp: 107533
 Ion Ratio Lower Upper
 75 100
 77 0.3 23.3 34.9#
 39 29.9 44.6 66.8#

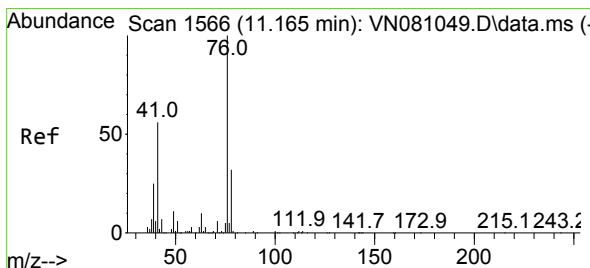
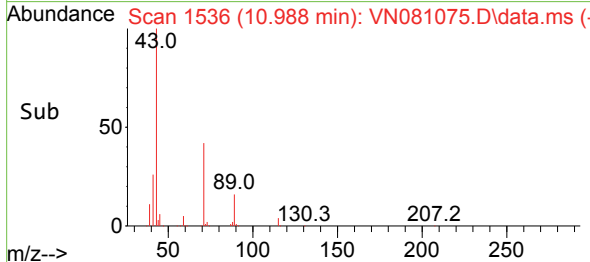
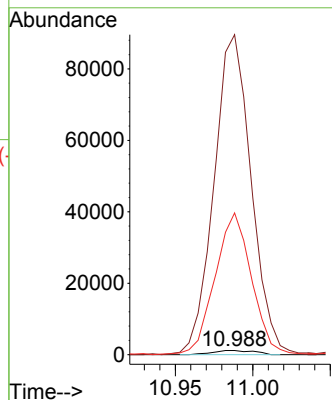
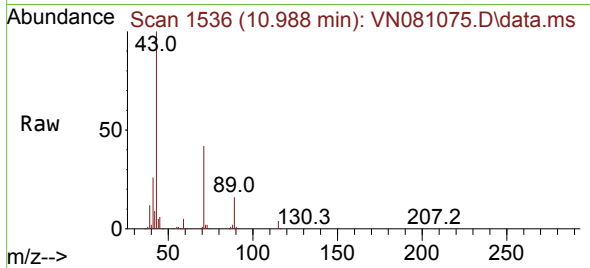




#56
Ethyl methacrylate
Concen: 0.280 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

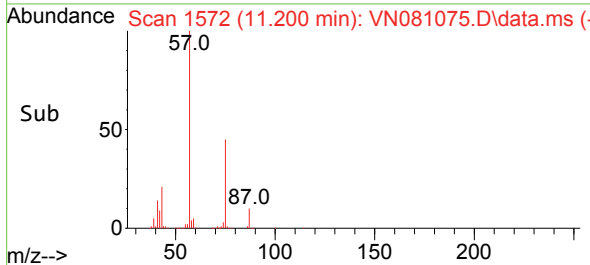
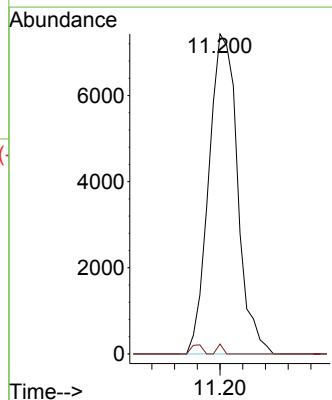
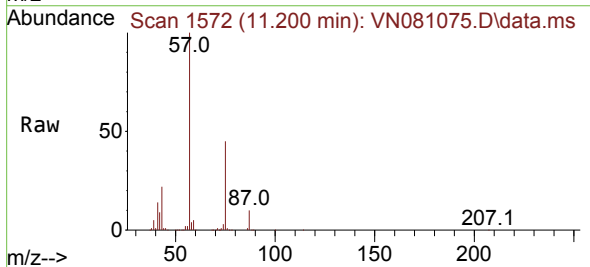
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

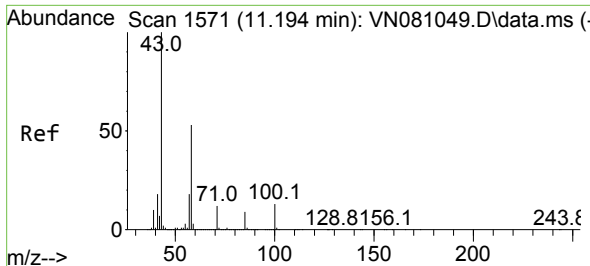
Tgt Ion: 69 Resp: 2191
Ion Ratio Lower Upper
69 100
41 6848.7 61.0 91.6#
39 2968.4 31.8 47.6#



#57
1,3-Dichloropropane
Concen: 1.477 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.035 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 76 Resp: 13053
Ion Ratio Lower Upper
76 100
78 0.6 25.5 38.3#

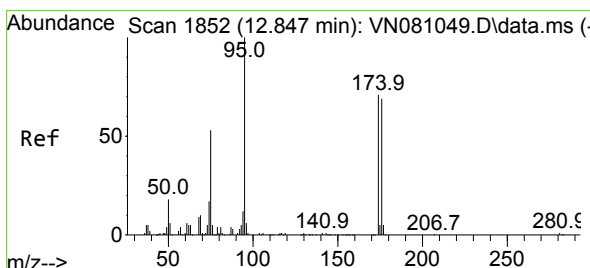
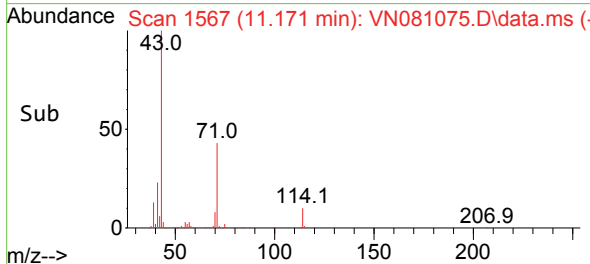
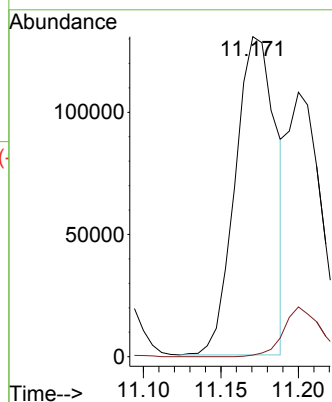
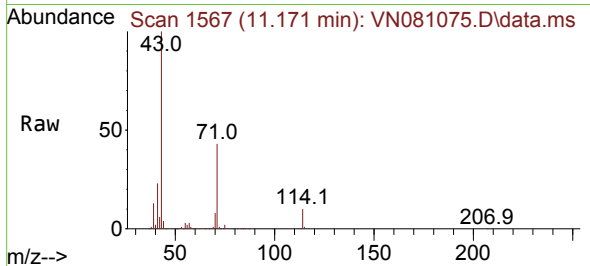




#59
2-Hexanone
Concen: 45.787 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

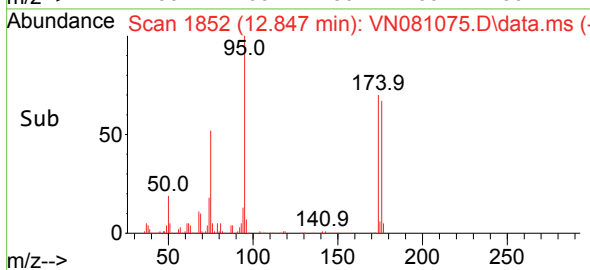
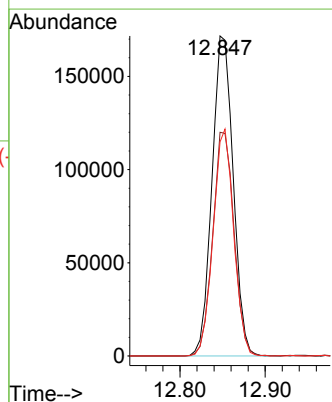
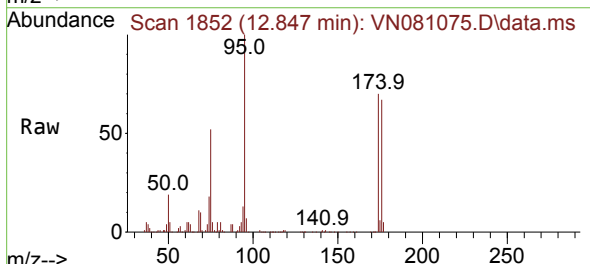
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

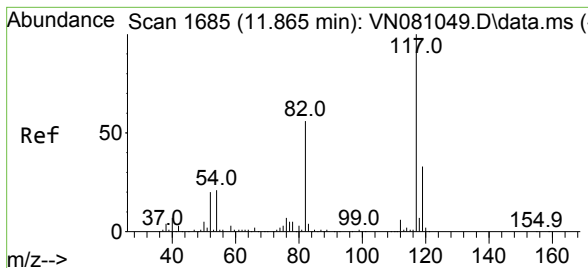
Tgt Ion: 43 Resp: 239043
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 52.417 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion: 95 Resp: 296134
Ion Ratio Lower Upper
95 100
174 70.5 0.0 120.4
176 68.7 0.0 121.0

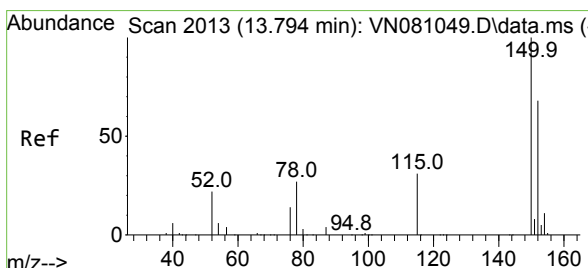
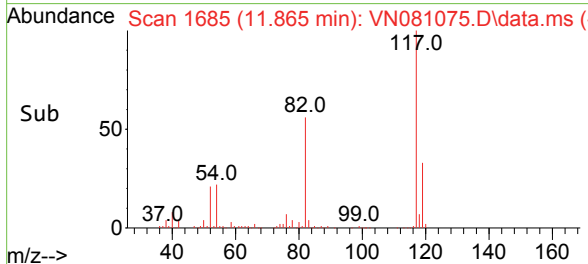
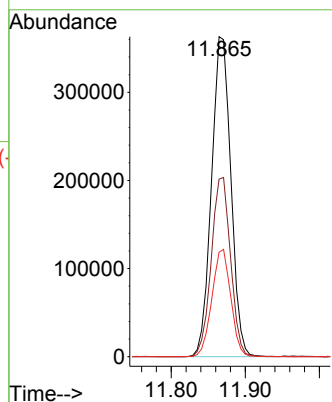
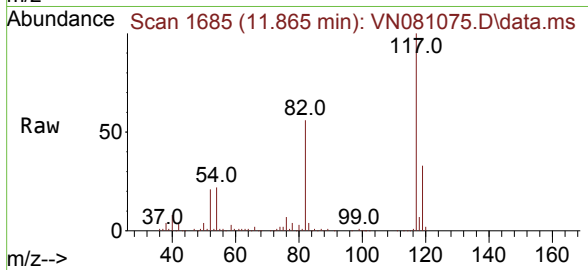




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

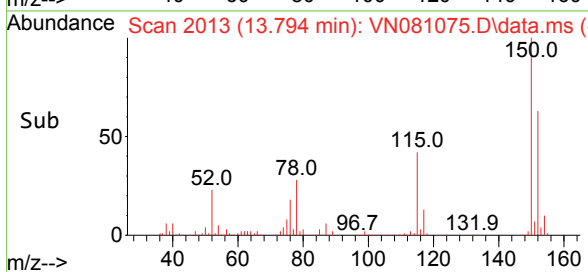
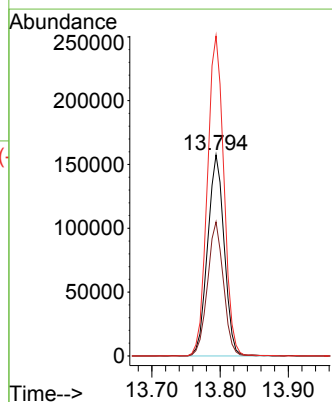
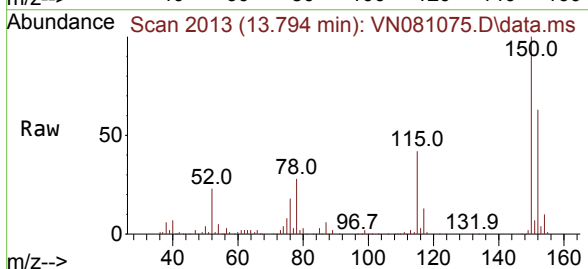
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#03

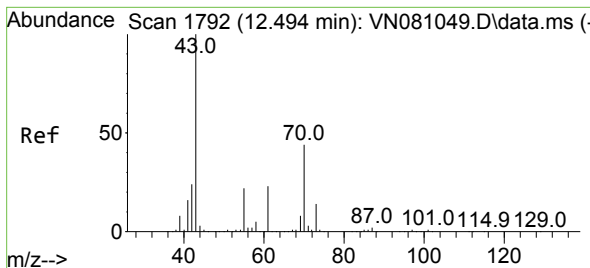
Tgt Ion:117 Resp: 658939
Ion Ratio Lower Upper
117 100
82 55.5 52.7 79.1
119 32.7 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN081075.D
Acq: 19 Feb 2024 14:54

Tgt Ion:152 Resp: 267013
Ion Ratio Lower Upper
152 100
115 64.0 32.3 96.8
150 158.4 0.0 339.8





#74

N-amyl acetate

Concen: 0.232 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081075.D

Acq: 19 Feb 2024 14:54

Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#03

Tgt Ion: 43 Resp: 2295

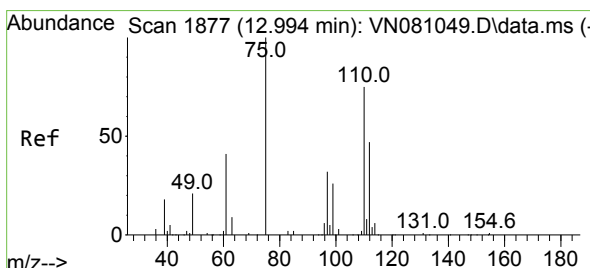
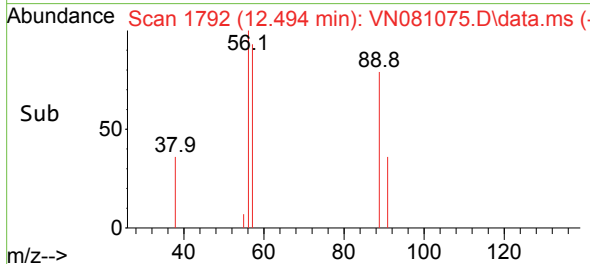
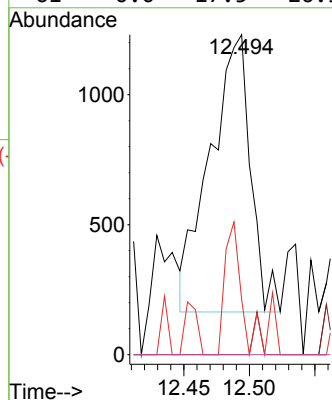
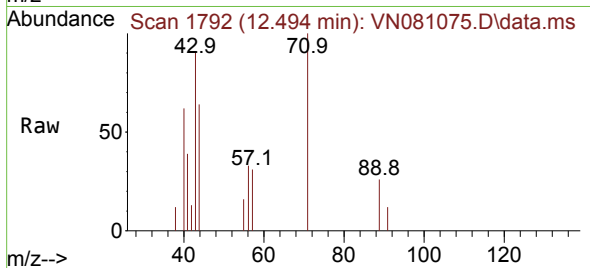
Ion Ratio Lower Upper

43 100

70 2.5 30.1 45.1#

55 17.4 17.0 25.4

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 25.244 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081075.D

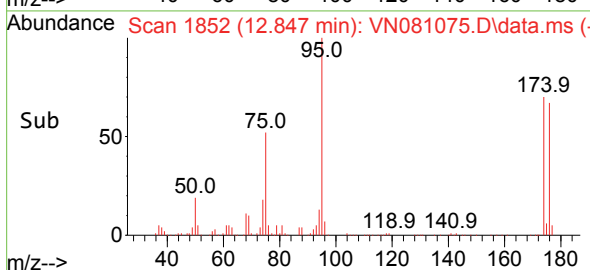
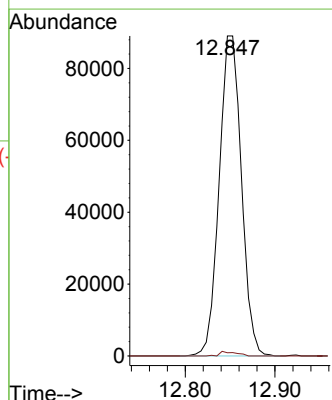
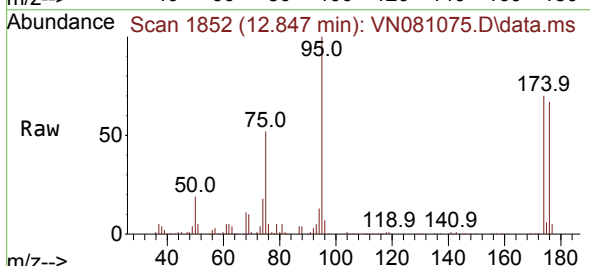
Acq: 19 Feb 2024 14:54

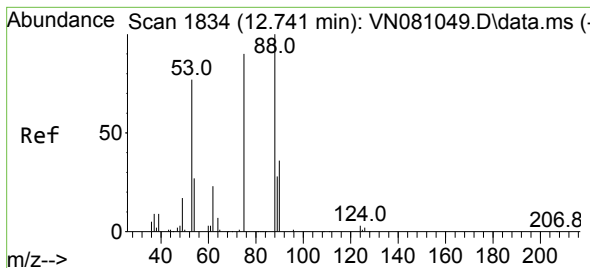
Tgt Ion: 75 Resp: 153148

Ion Ratio Lower Upper

75 100

77 1.0 91.0 272.8#

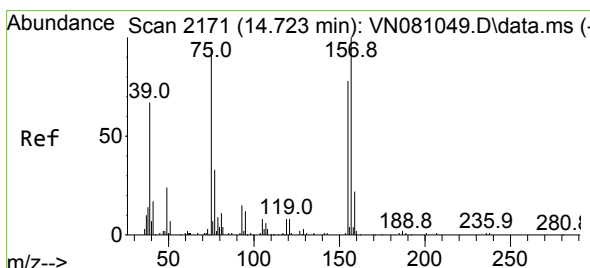
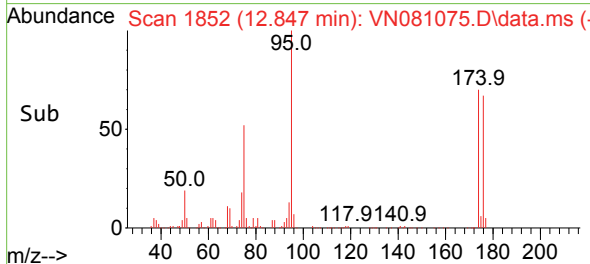
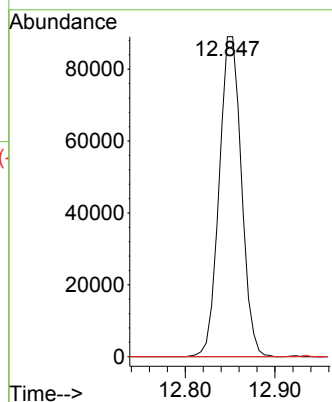
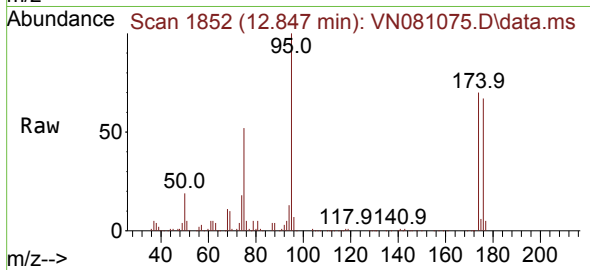




#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.976 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN081075.D
 Acq: 19 Feb 2024 14:54

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159057ZHE#03

Tgt Ion: 75 Resp: 153148
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.2#
 89 0.0 33.4 50.0#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.559 ug/l
 RT: 14.712 min Scan# 2169
 Delta R.T. -0.012 min
 Lab File: VN081075.D
 Acq: 19 Feb 2024 14:54

Tgt Ion: 75 Resp: 764
 Ion Ratio Lower Upper
 75 100
 155 0.0 31.8 95.4#
 157 0.0 41.1 123.4#

