

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021924\
 Data File : VN081076.D
 Acq On : 19 Feb 2024 15:18
 Operator : JC\MD
 Sample : PB159057ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159057ZHE#04

Quant Time: Feb 20 00:23:00 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)

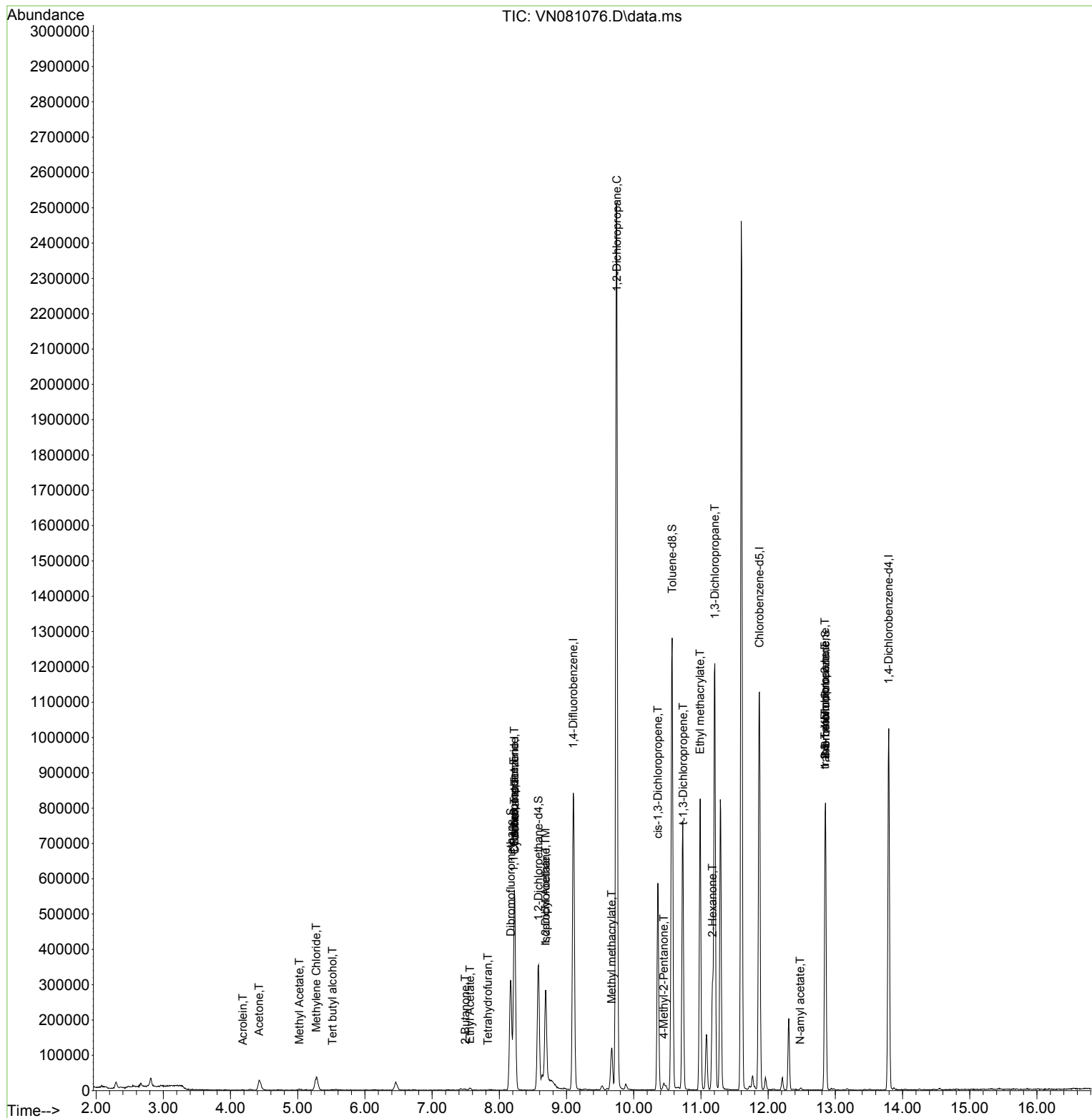
Internal Standards						
1) Pentafluorobenzene	8.224	168	400190	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	756479	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	663494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	268584	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	284849	58.071	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 116.140%			
35) Dibromofluoromethane	8.171	113	226865	53.035	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.060%			
50) Toluene-d8	10.571	98	876435	57.686	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 115.380%#			
62) 4-Bromofluorobenzene	12.853	95	292081	51.163	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.320%			
Target Compounds						
3) Chloromethane	2.365	50	2274	Below Cal		95
6) Chloroethane	3.124	64	1421	Below Cal		90
11) Tert butyl alcohol	5.518	59	1308	1.450	ug/l #	72
13) Acrolein	4.183	56	1285	2.658	ug/l #	69
16) Acetone	4.424	43	55134	28.565	ug/l	92
18) Methyl Acetate	5.024	43	5244	1.114	ug/l #	89
20) Methylene Chloride	5.277	84	30491	5.275	ug/l #	88
25) 2-Butanone	7.494	43	5962	1.912	ug/l	99
29) Tetrahydrofuran	7.830	42	423	0.203	ug/l #	38
31) Cyclohexane	8.230	56	9535	1.126	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	34219	4.669	ug/l #	52
37) Ethyl Acetate	7.565	43	8302	1.255	ug/l #	94
38) Carbon Tetrachloride	8.224	117	45138	6.088	ug/l #	19
42) 1,2-Dichloroethane	8.688	62	2346	0.317	ug/l #	75
43) Isopropyl Acetate	8.688	43	378253	32.699	ug/l #	87
45) 1,2-Dichloropropane	9.747	63	3353	0.632	ug/l #	42
48) Methyl methacrylate	9.671	41	7338	1.363	ug/l #	47
49) 1,4-Dioxane	9.688	88	75	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.447	43	12276	1.845	ug/l	88
53) t-1,3-Dichloropropene	10.735	75	1696	0.208	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	108581	12.351	ug/l #	58
56) Ethyl methacrylate	10.988	69	2244	0.284	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	13634	1.527	ug/l #	43
59) 2-Hexanone	11.171	43	232620	44.094	ug/l #	26
71) Bromoform	12.853	173	1626	0.497	ug/l #	1
74) N-amyl acetate	12.476	43	2017	0.203	ug/l #	49
76) 1,2,3-Trichloropropane	12.847	75	155101	25.416	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	155101	65.420	ug/l #	14

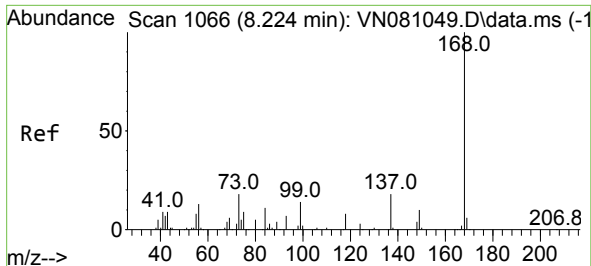
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021924\
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Quant Time: Feb 20 00:23:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
Quant Title : SW846 8260
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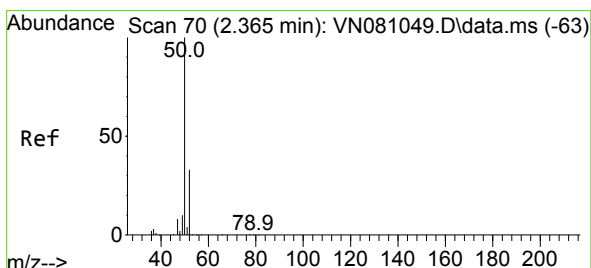
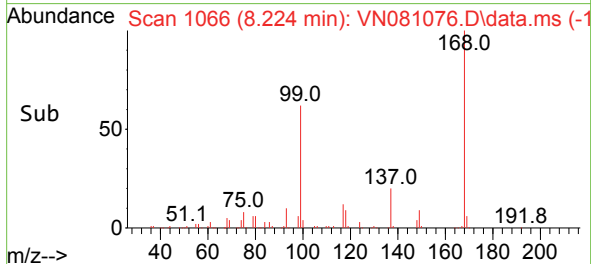
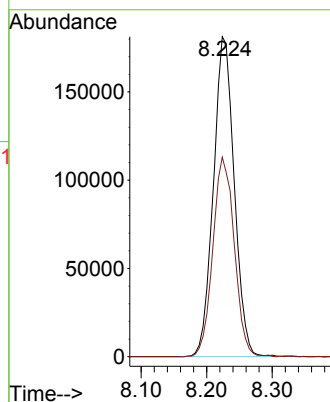
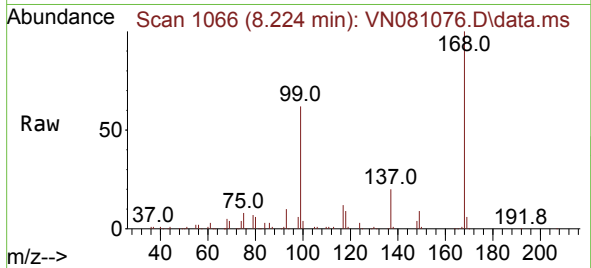




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

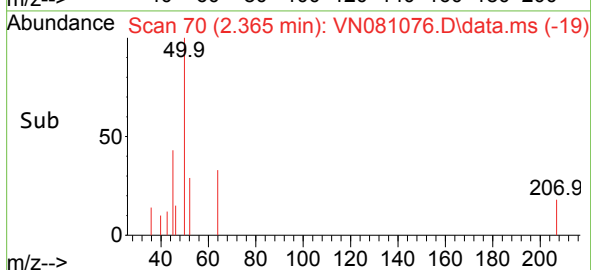
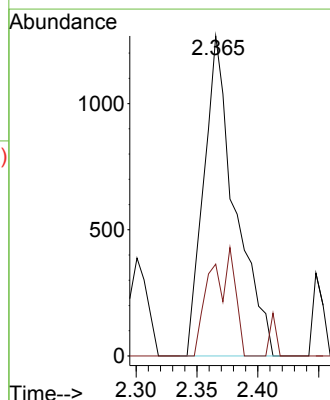
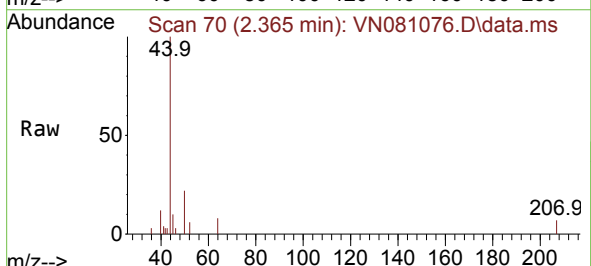
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

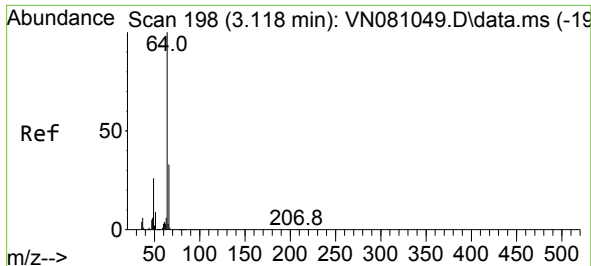
Tgt Ion:168 Resp: 400190
Ion Ratio Lower Upper
168 100
99 62.4 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 50 Resp: 2274
Ion Ratio Lower Upper
50 100
52 28.7 25.0 37.4

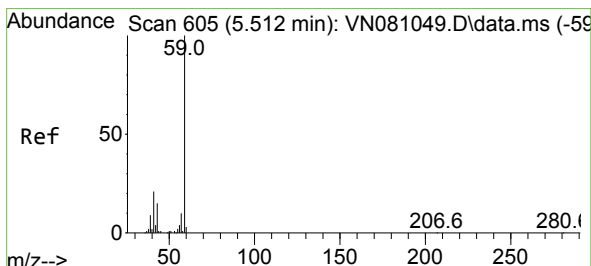
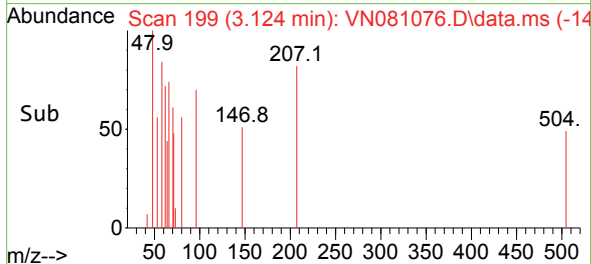
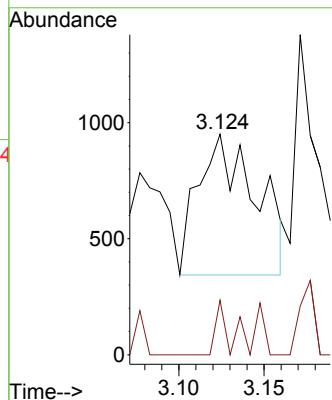
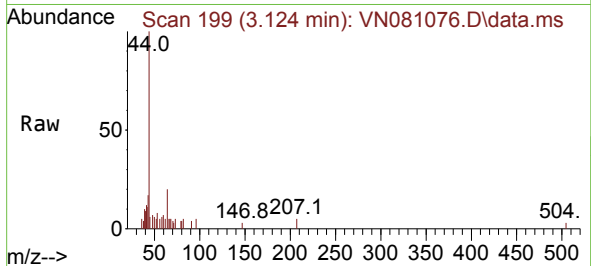




#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 19
Delta R.T. 0.006 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

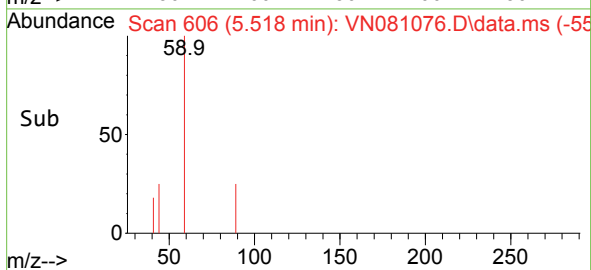
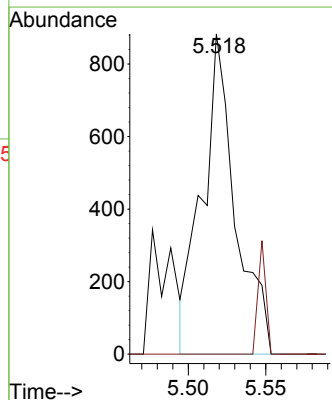
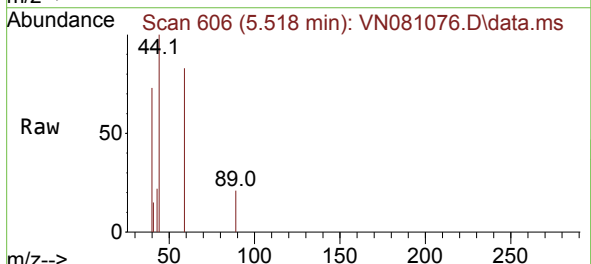
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

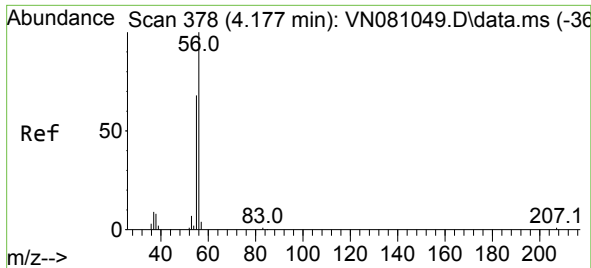
Tgt Ion: 64 Resp: 1421
Ion Ratio Lower Upper
64 100
66 38.8 26.4 39.6



#11
Tert butyl alcohol
Concen: 1.450 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 59 Resp: 1308
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 2.658 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN081076.D

Acq: 19 Feb 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

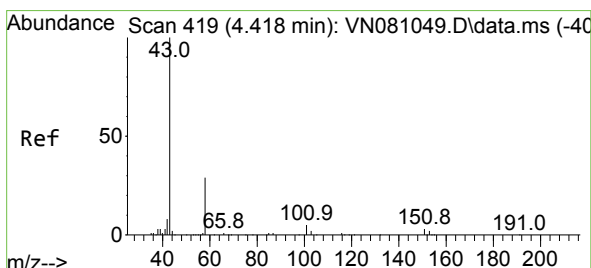
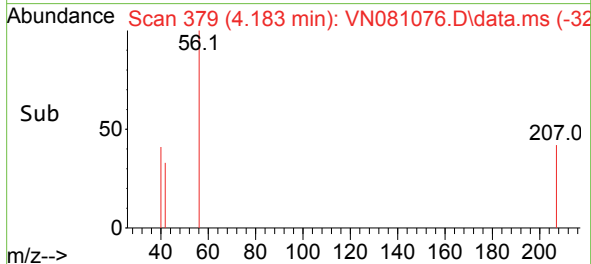
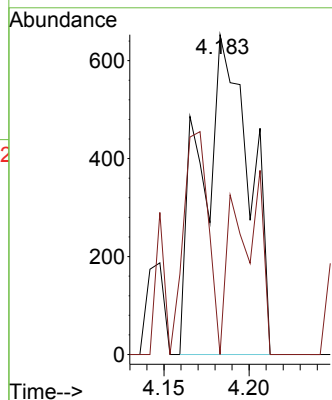
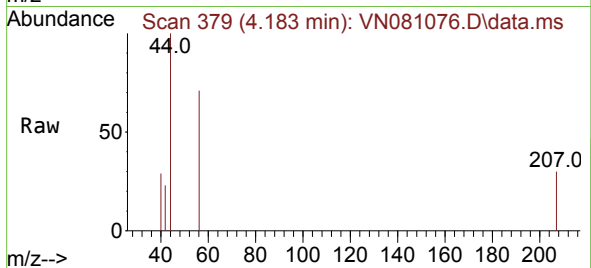
PB159057ZHE#04

Tgt Ion: 56 Resp: 1285

Ion Ratio Lower Upper

56 100

55 43.9 55.3 82.9#



#16

Acetone

Concen: 28.565 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN081076.D

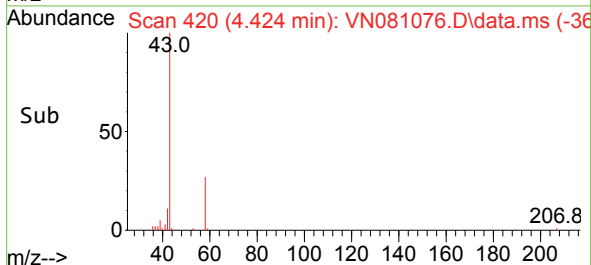
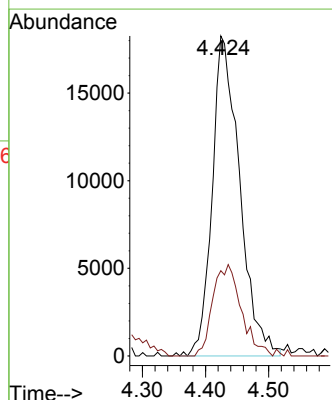
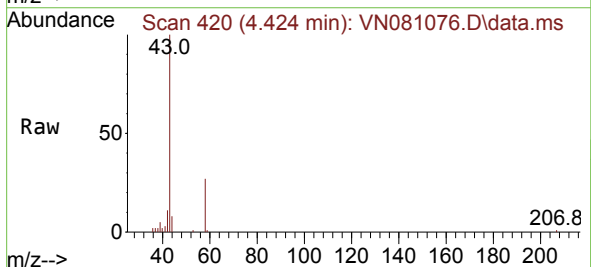
Acq: 19 Feb 2024 15:18

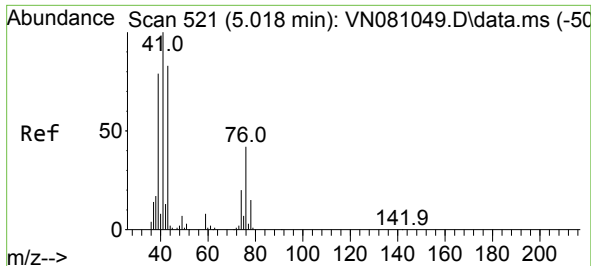
Tgt Ion: 43 Resp: 55134

Ion Ratio Lower Upper

43 100

58 26.6 24.8 37.2

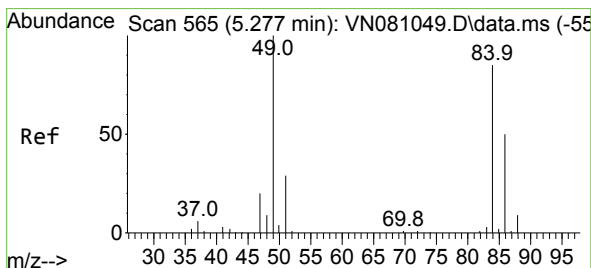
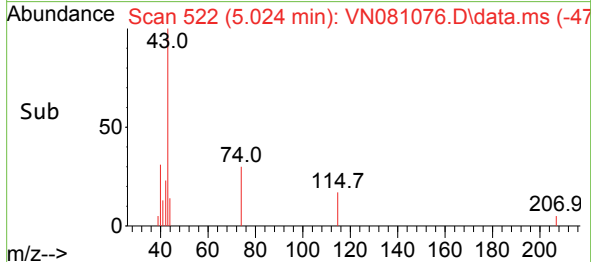
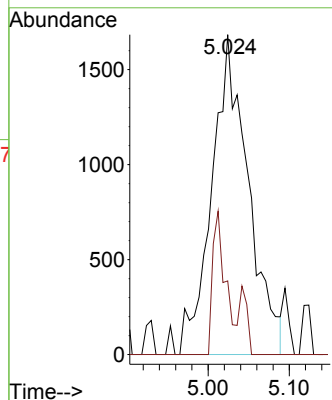
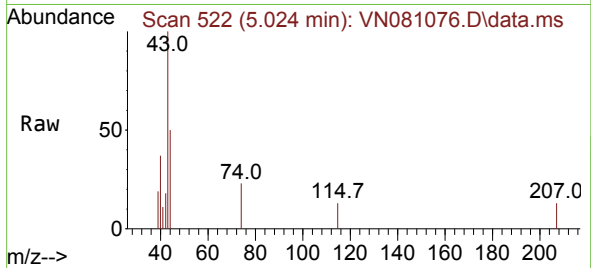




#18
Methyl Acetate
Concen: 1.114 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

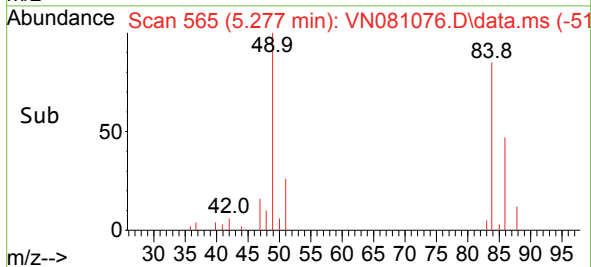
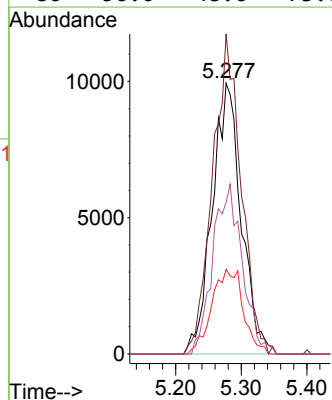
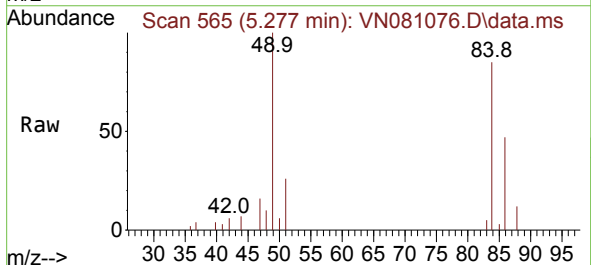
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

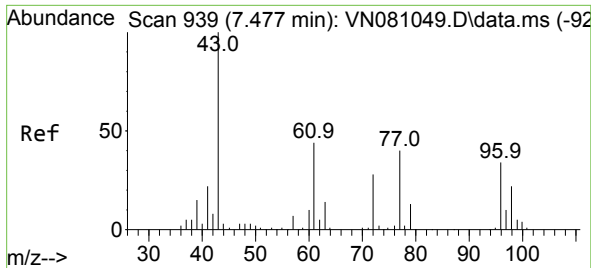
Tgt Ion: 43 Resp: 5244
Ion Ratio Lower Upper
43 100
74 16.3 17.3 25.9#



#20
Methylene Chloride
Concen: 5.275 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.000 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 84 Resp: 30491
Ion Ratio Lower Upper
84 100
49 118.2 108.1 162.1
51 31.2 32.9 49.3#
86 56.0 48.6 73.0

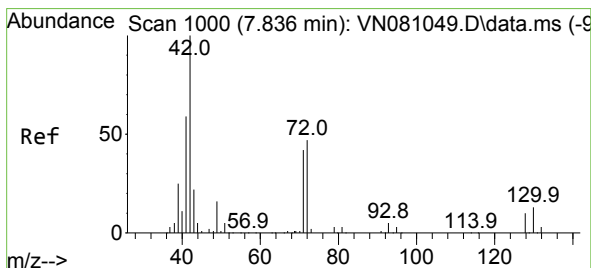
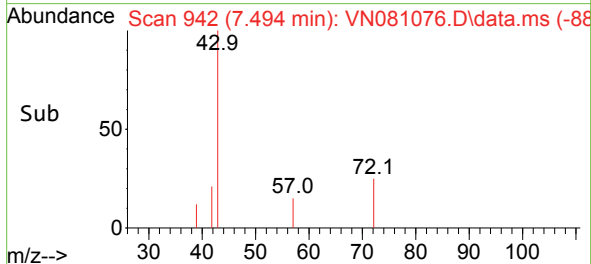
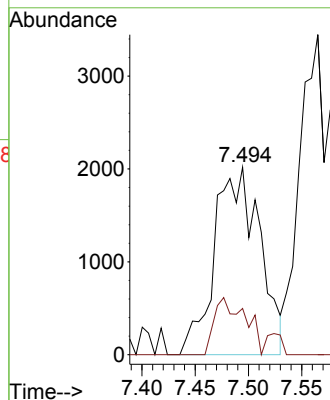
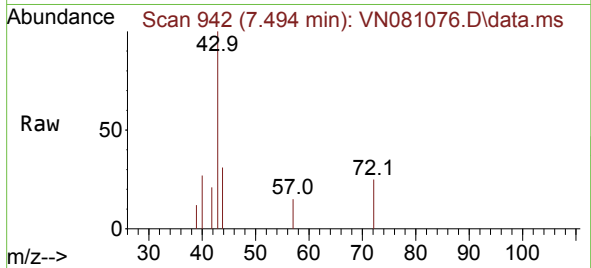




#25
2-Butanone
Concen: 1.912 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

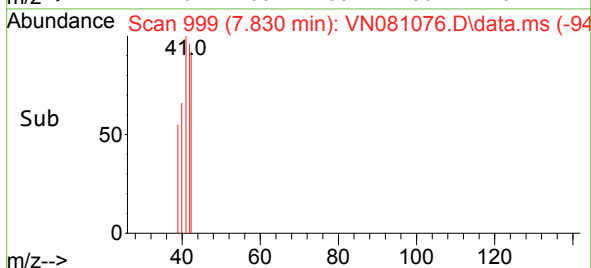
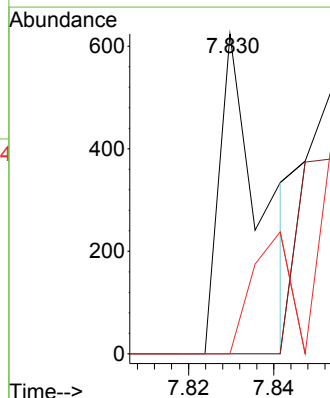
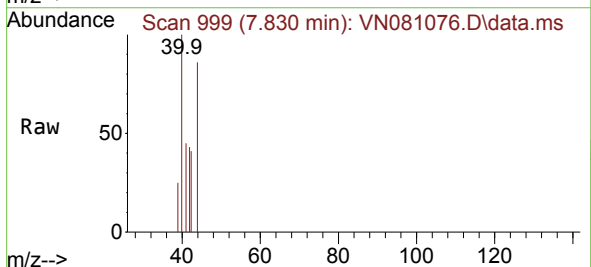
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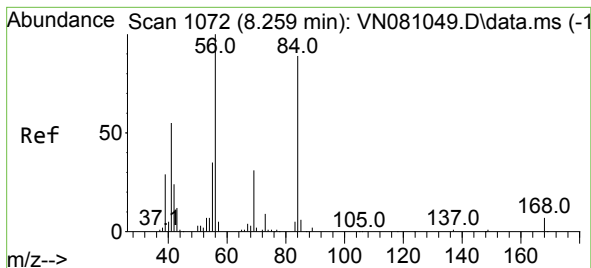
Tgt Ion: 43 Resp: 5962
Ion Ratio Lower Upper
43 100
72 24.7 19.5 29.3



#29
Tetrahydrofuran
Concen: 0.203 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 42 Resp: 423
Ion Ratio Lower Upper
42 100
72 0.0 31.1 46.7#
71 0.0 28.3 42.5#





#31

Cyclohexane

Concen: 1.126 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

Lab File: VN081076.D

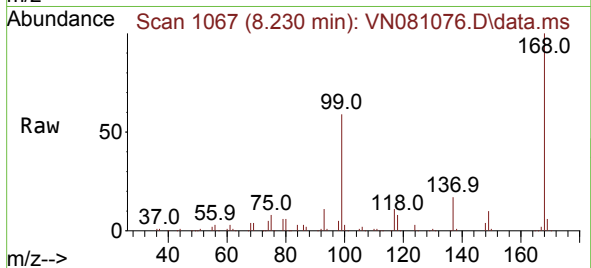
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Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#04



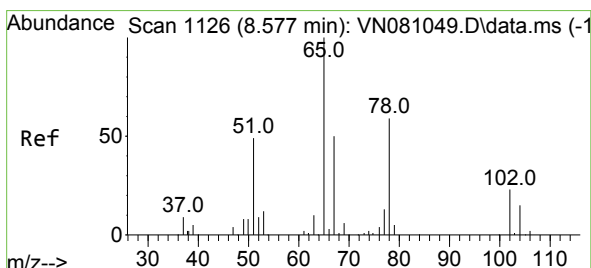
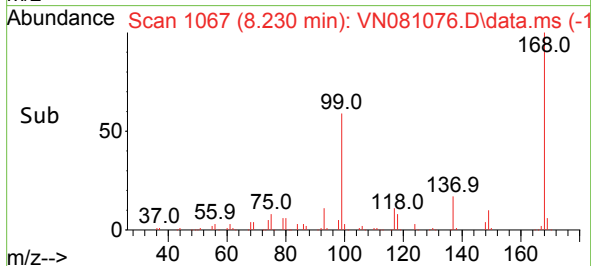
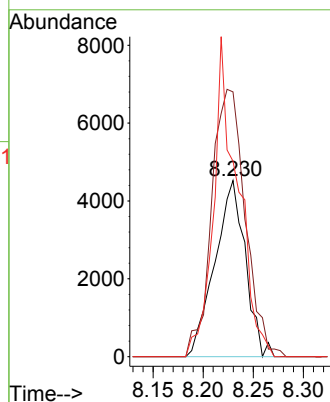
Tgt Ion: 56 Resp: 9535

Ion Ratio Lower Upper

56 100

69 150.3 20.1 30.1#

84 111.0 56.9 85.3#



#33

1,2-Dichloroethane-d4

Concen: 58.071 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081076.D

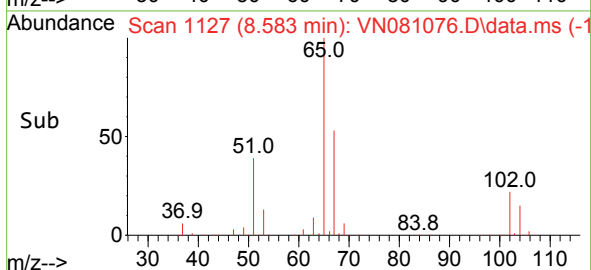
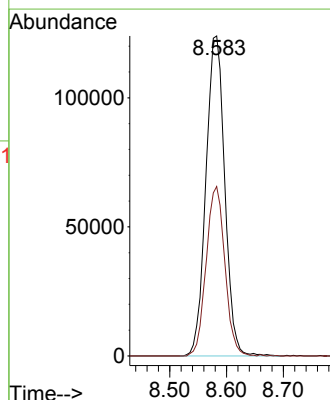
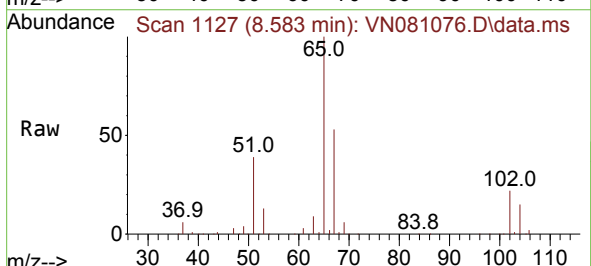
Acq: 19 Feb 2024 15:18

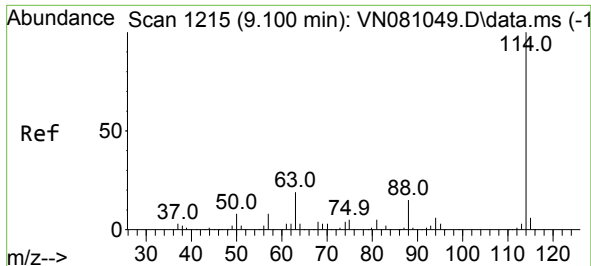
Tgt Ion: 65 Resp: 284849

Ion Ratio Lower Upper

65 100

67 52.5 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: VN081076.D

Acq: 19 Feb 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#04

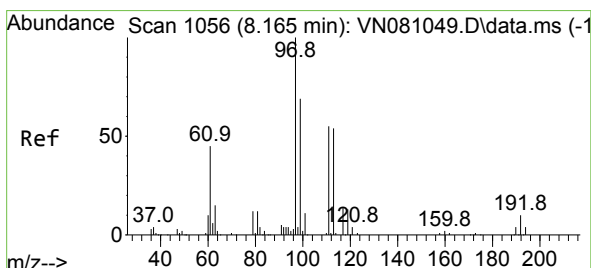
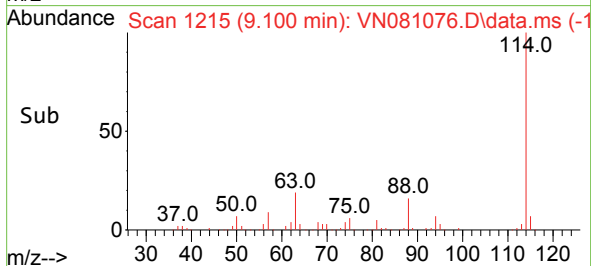
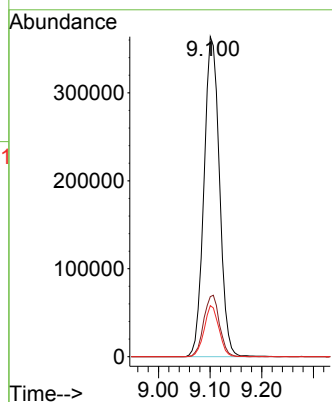
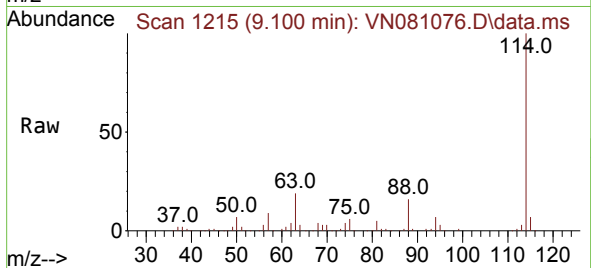
Tgt Ion:114 Resp: 756479

Ion Ratio Lower Upper

114 100

63 18.8 0.0 48.0

88 16.0 0.0 34.8



#35

Dibromofluoromethane

Concen: 53.035 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN081076.D

Acq: 19 Feb 2024 15:18

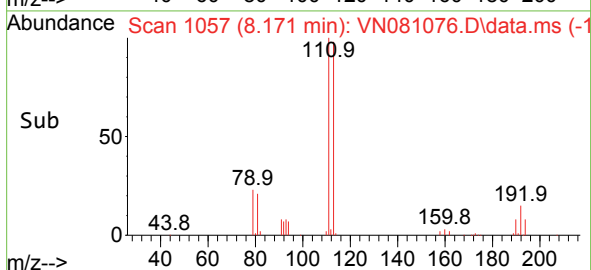
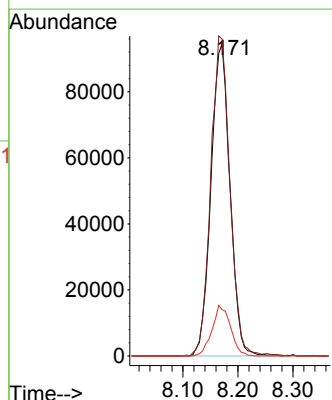
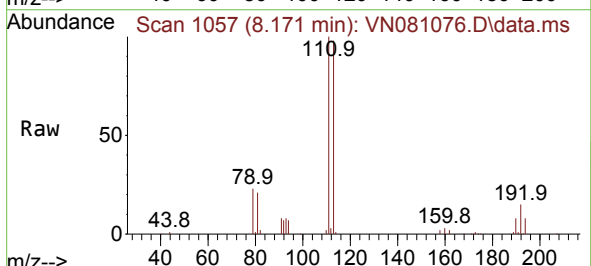
Tgt Ion:113 Resp: 226865

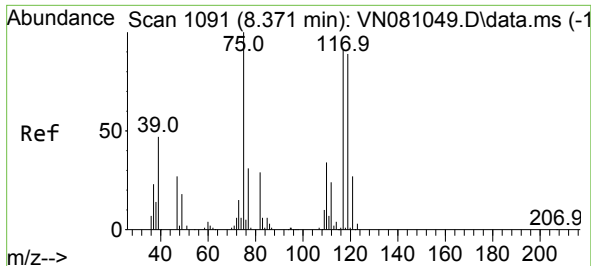
Ion Ratio Lower Upper

113 100

111 103.7 82.2 123.4

192 15.8 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.669 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN081076.D

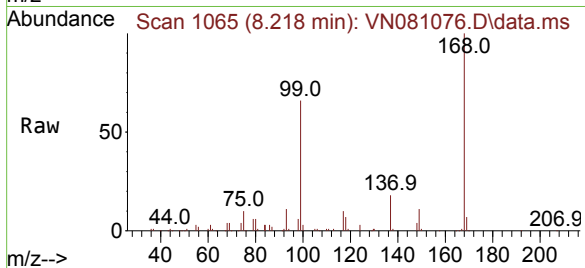
Acq: 19 Feb 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

PB159057ZHE#04



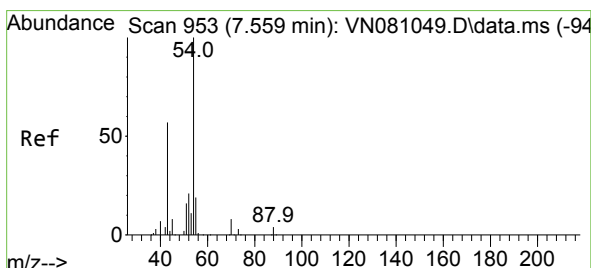
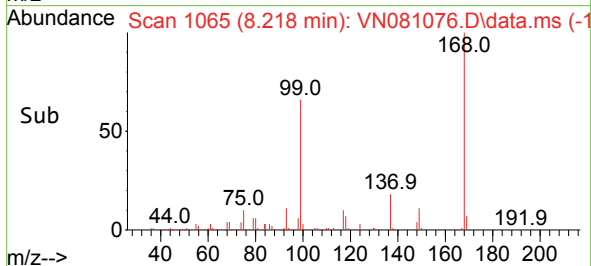
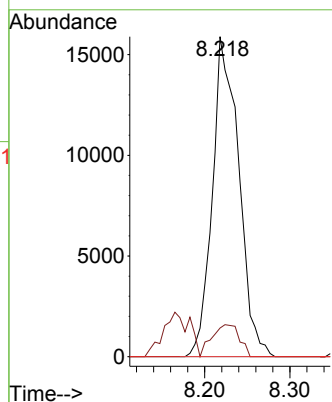
Tgt Ion: 75 Resp: 34219

Ion Ratio Lower Upper

75 100

110 10.4 16.0 48.0#

77 0.0 25.8 38.6#



#37

Ethyl Acetate

Concen: 1.255 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN081076.D

Acq: 19 Feb 2024 15:18

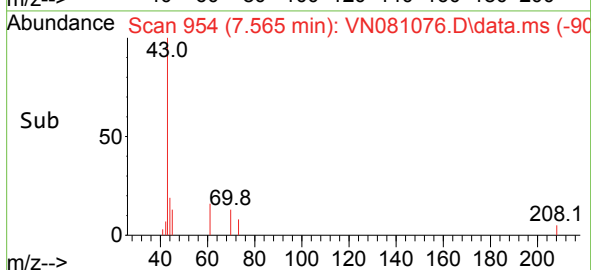
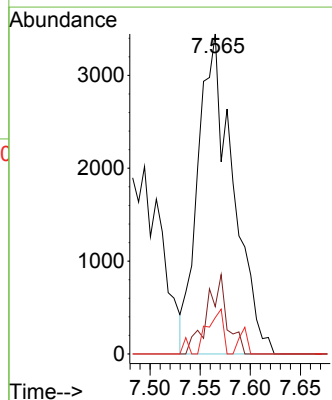
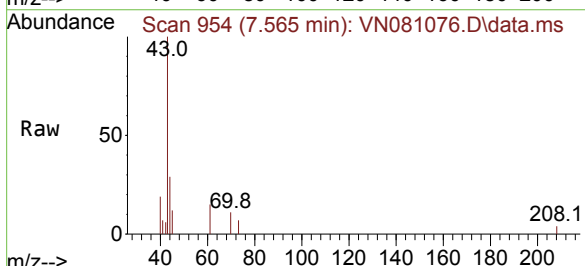
Tgt Ion: 43 Resp: 8302

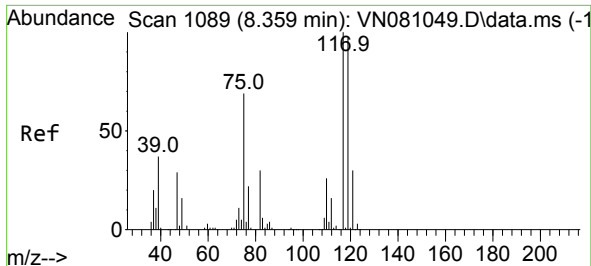
Ion Ratio Lower Upper

43 100

61 14.4 10.6 15.8

70 6.2 8.0 12.0#

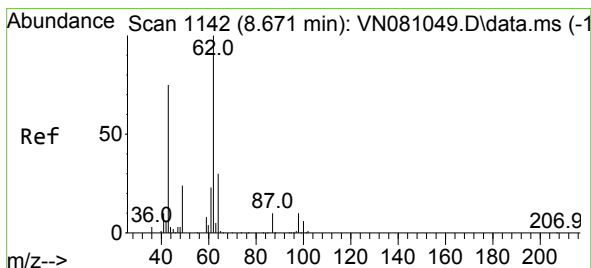
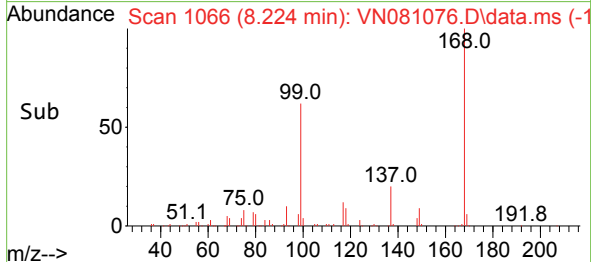
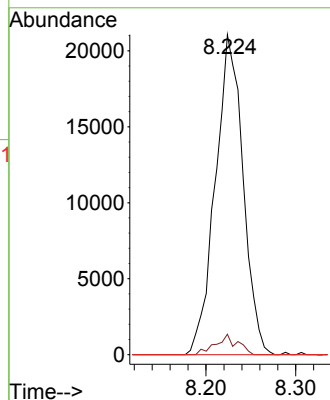
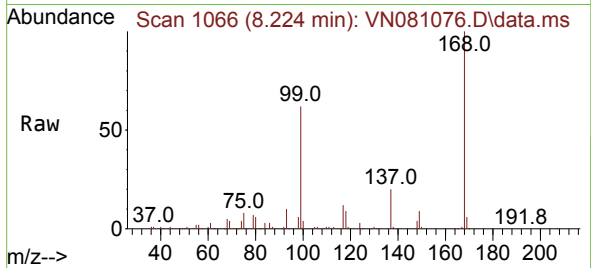




#38
Carbon Tetrachloride
Concen: 6.088 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

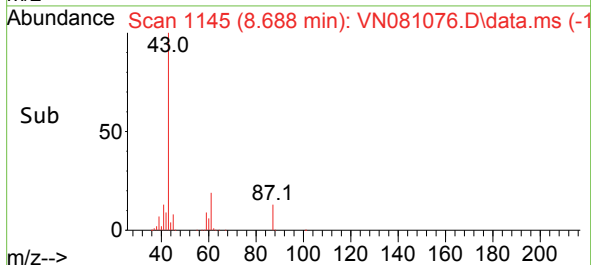
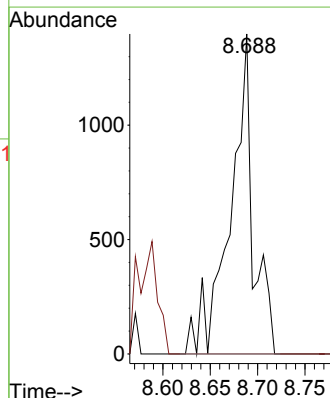
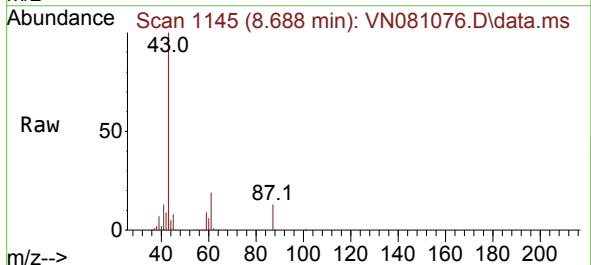
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

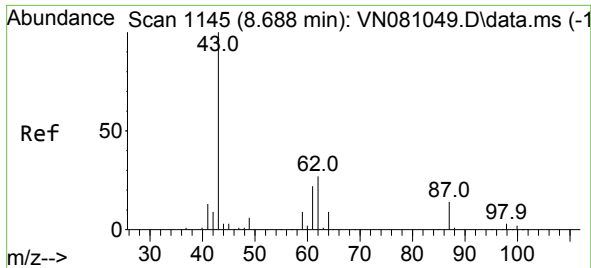
Tgt Ion:117 Resp: 45138
Ion Ratio Lower Upper
117 100
119 6.4 73.4 110.2#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.317 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 62 Resp: 2346
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.0

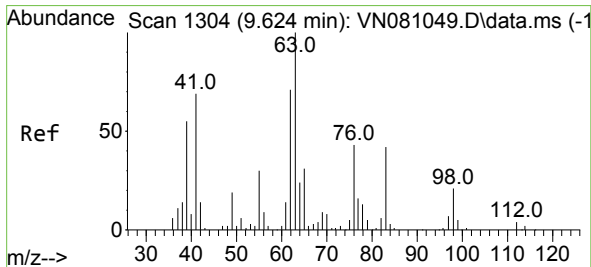
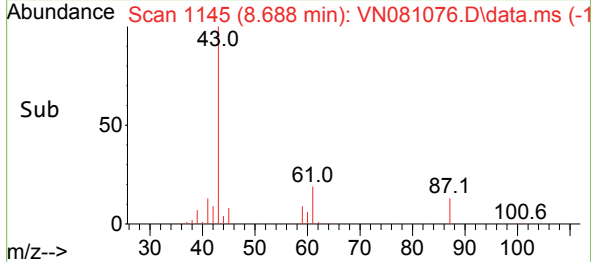
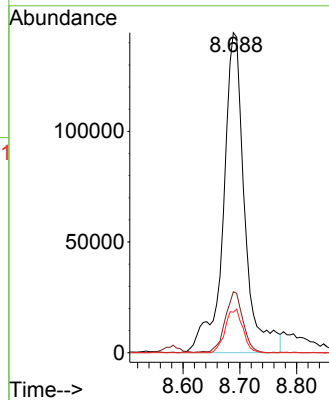
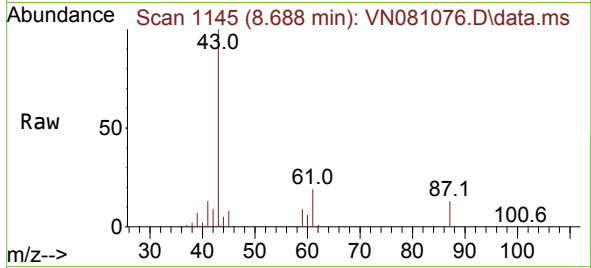




#43
Isopropyl Acetate
Concen: 32.699 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

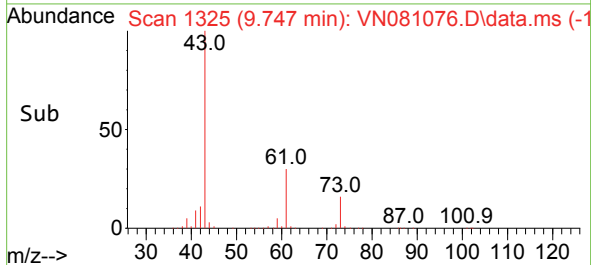
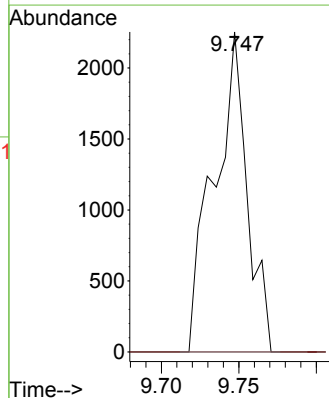
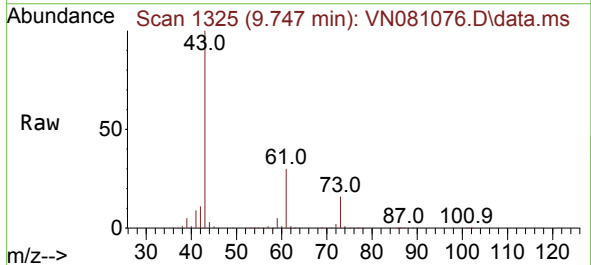
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

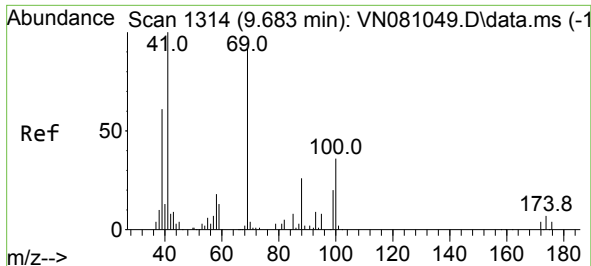
Tgt Ion: 43 Resp: 378253
Ion Ratio Lower Upper
43 100
61 15.8 19.9 29.9#
87 11.1 9.0 13.6



#45
1,2-Dichloropropane
Concen: 0.632 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

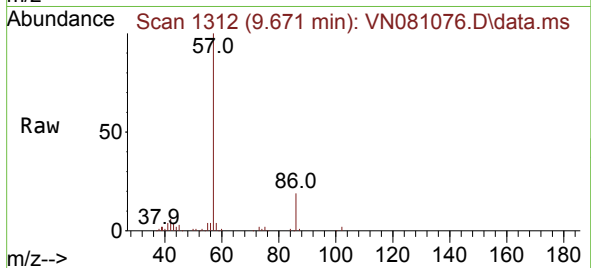
Tgt Ion: 63 Resp: 3353
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#



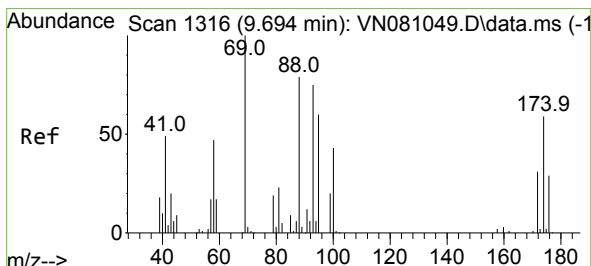
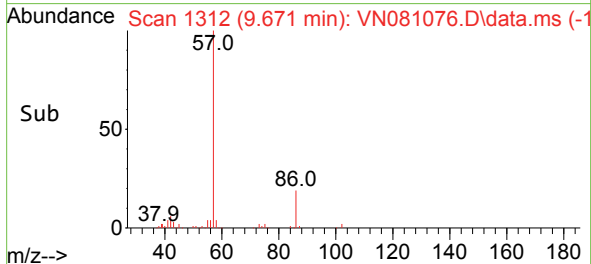
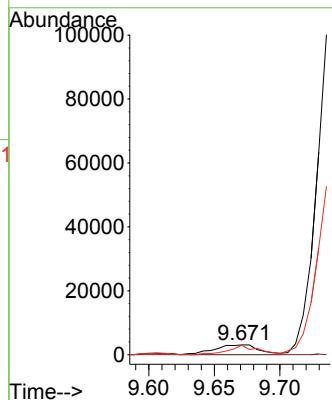


#48
Methyl methacrylate
Concen: 1.363 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

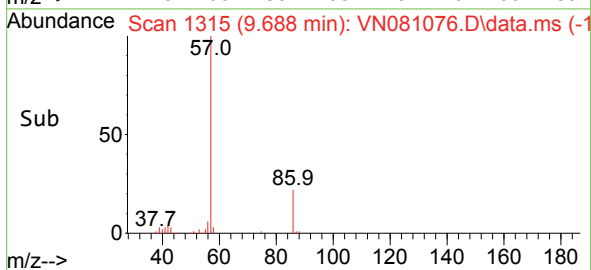
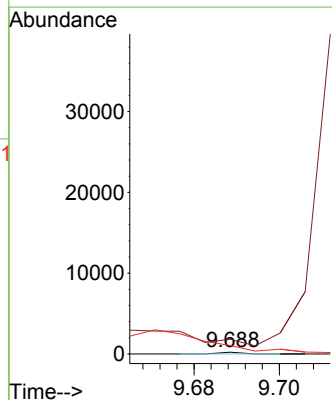
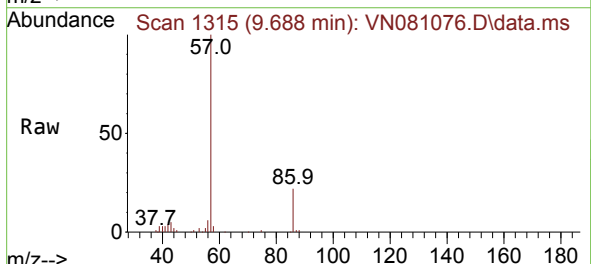


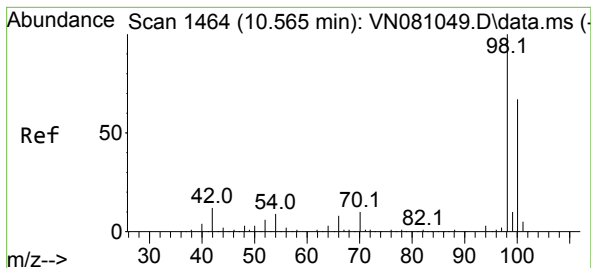
Tgt Ion: 41 Resp: 7338
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 63.4 47.6 71.4



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.688 min Scan# 1315
Delta R.T. -0.006 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 7470.7 63.9 95.9#





#50

Toluene-d8

Concen: 57.686 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081076.D

Acq: 19 Feb 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

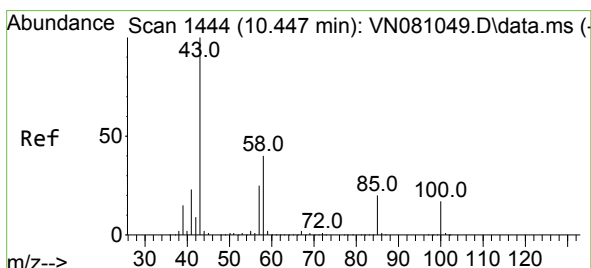
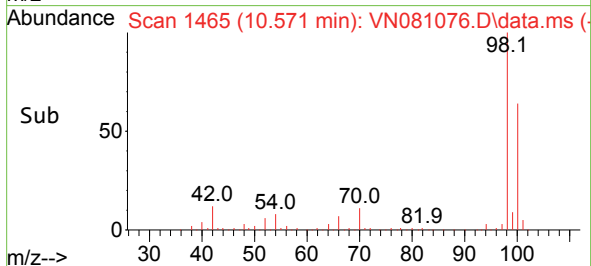
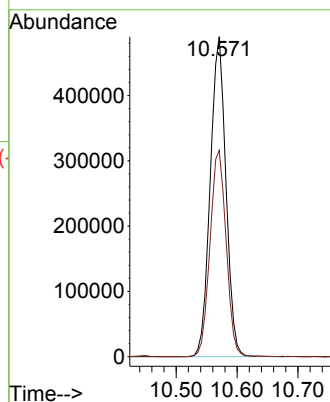
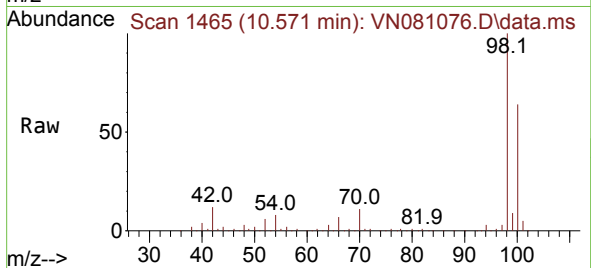
PB159057ZHE#04

Tgt Ion: 98 Resp: 876435

Ion Ratio Lower Upper

98 100

100 66.2 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.845 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN081076.D

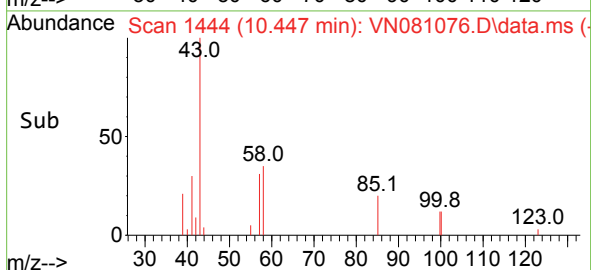
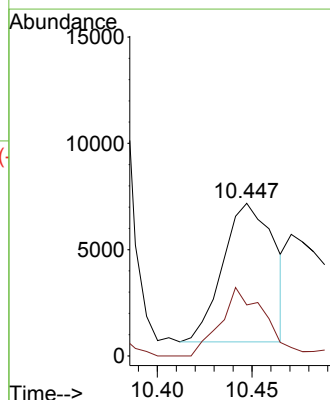
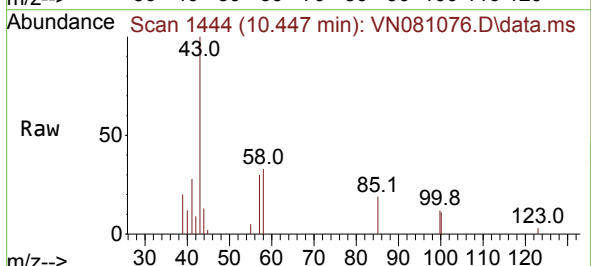
Acq: 19 Feb 2024 15:18

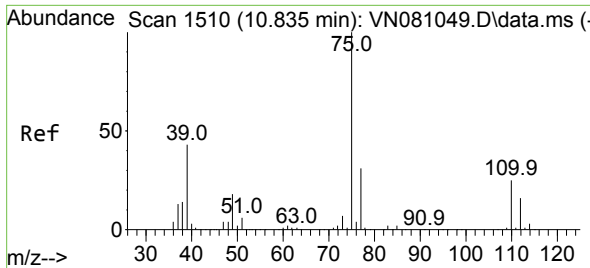
Tgt Ion: 43 Resp: 12276

Ion Ratio Lower Upper

43 100

58 43.7 29.4 44.0

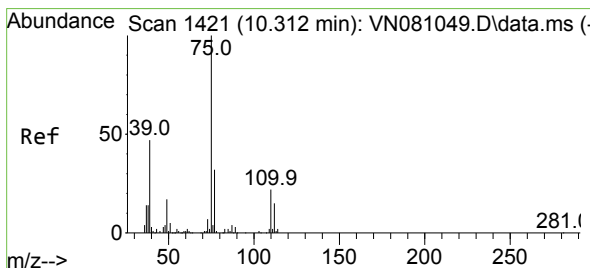
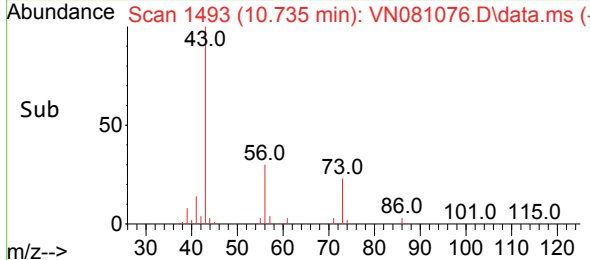
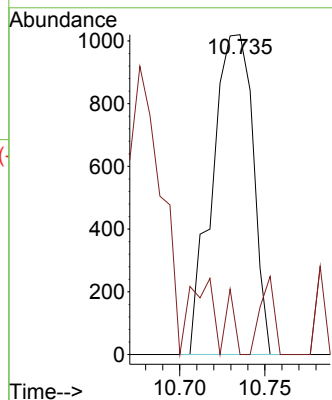
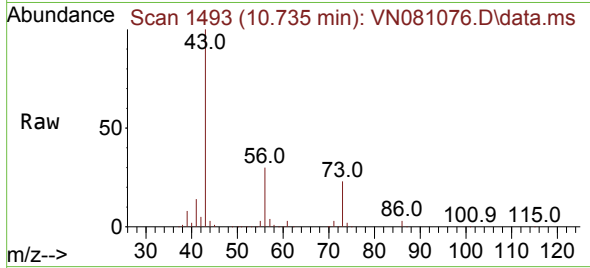




#53
 t-1,3-Dichloropropene
 Concen: 0.208 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.100 min
 Lab File: VN081076.D
 Acq: 19 Feb 2024 15:18

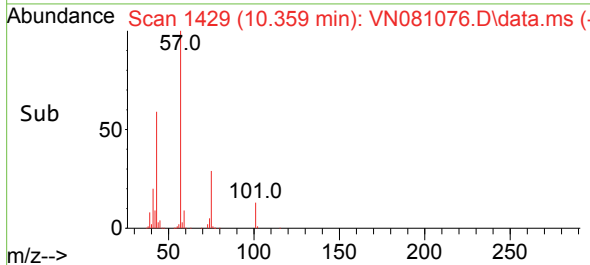
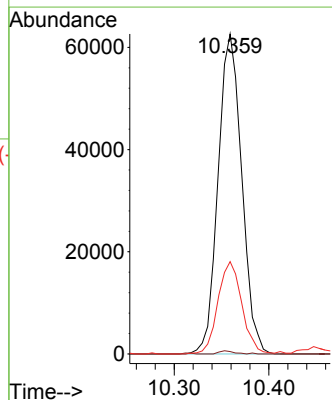
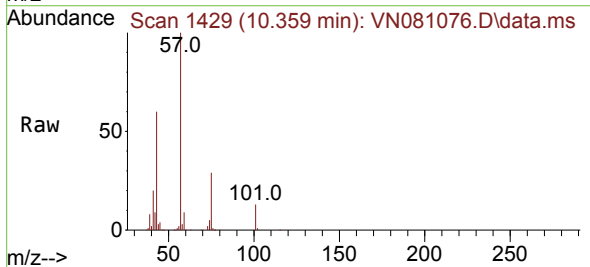
Instrument : MSVOA_N
 ClientSampleId : PB159057ZHE#04

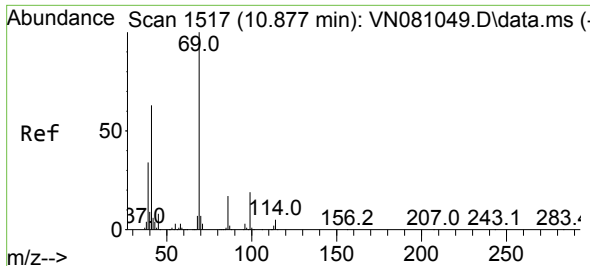
Tgt Ion: 75 Resp: 1696
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#



#54
 cis-1,3-Dichloropropene
 Concen: 12.351 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN081076.D
 Acq: 19 Feb 2024 15:18

Tgt Ion: 75 Resp: 108581
 Ion Ratio Lower Upper
 75 100
 77 0.8 23.3 34.9#
 39 28.9 44.6 66.8#

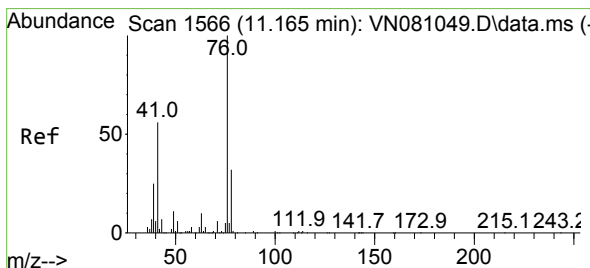
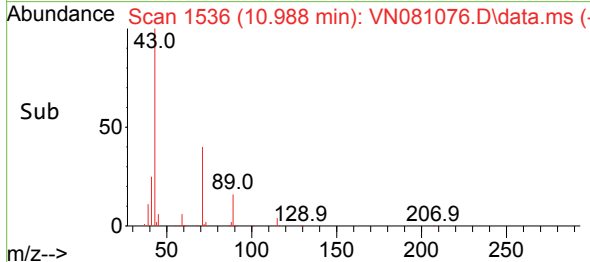
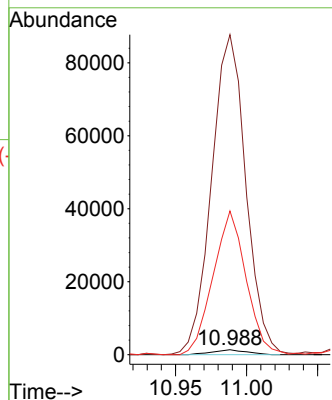
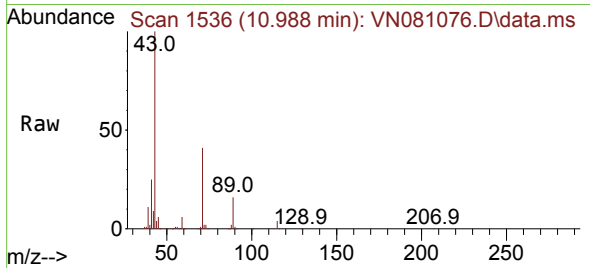




#56
Ethyl methacrylate
Concen: 0.284 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.112 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

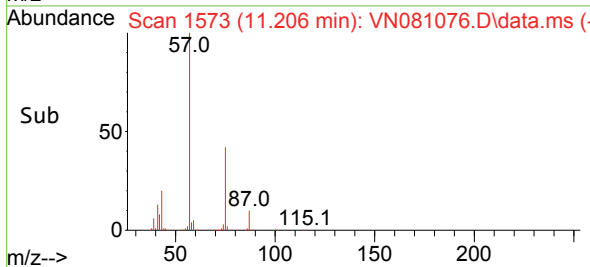
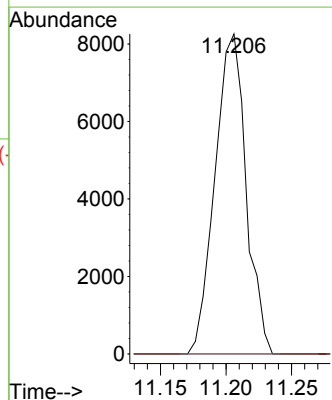
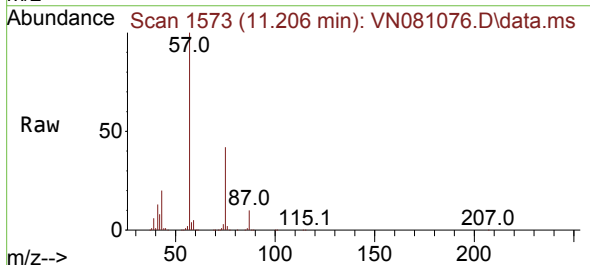
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

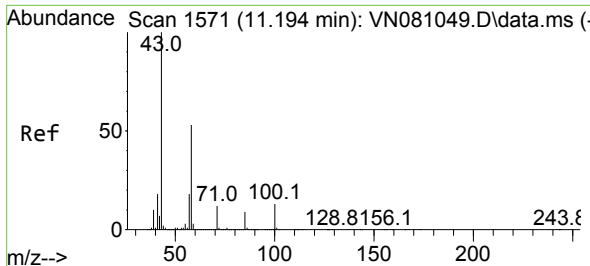
Tgt Ion: 69 Resp: 2244
Ion Ratio Lower Upper
69 100
41 6571.1 61.0 91.6#
39 2837.4 31.8 47.6#



#57
1,3-Dichloropropane
Concen: 1.527 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 76 Resp: 13634
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

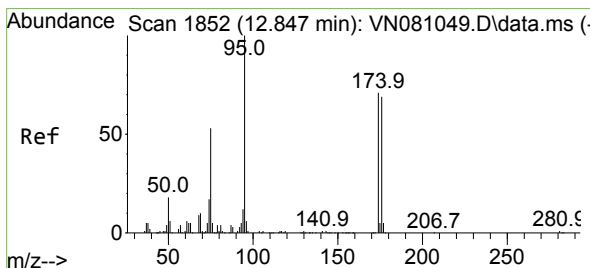
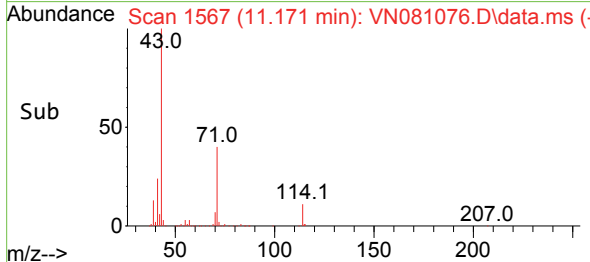
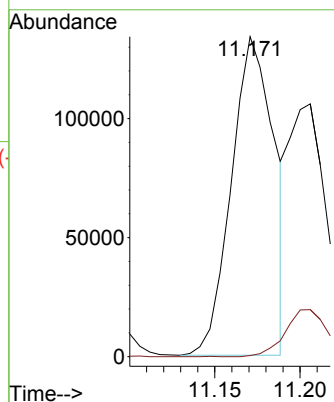
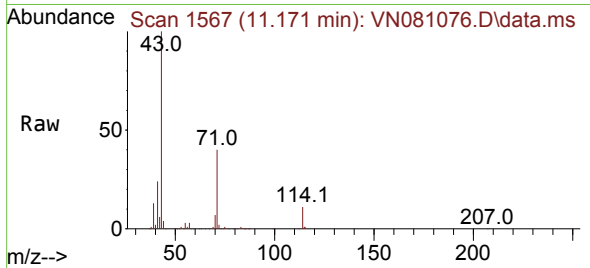




#59
2-Hexanone
Concen: 44.094 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

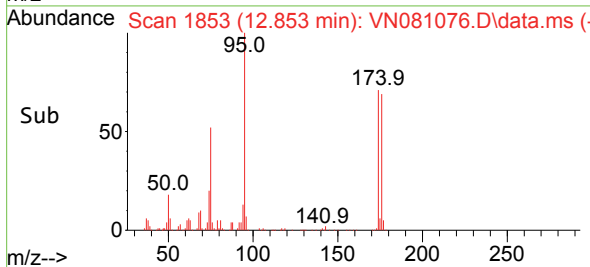
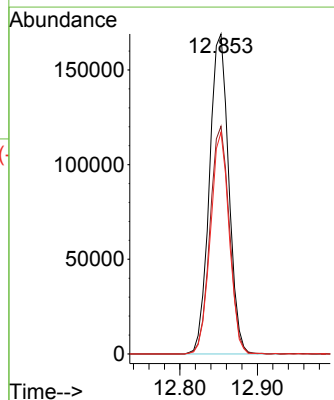
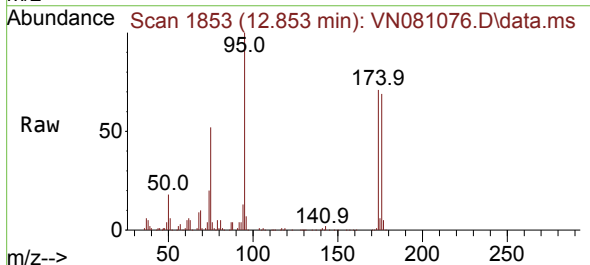
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

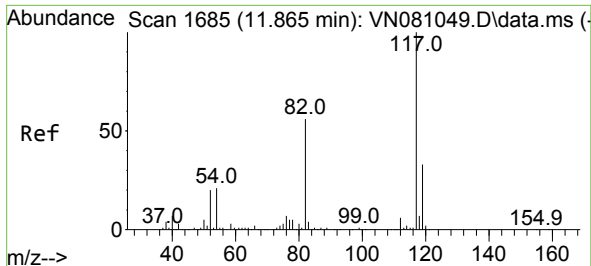
Tgt Ion: 43 Resp: 232620
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 51.163 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion: 95 Resp: 292081
Ion Ratio Lower Upper
95 100
174 71.5 0.0 120.4
176 67.2 0.0 121.0

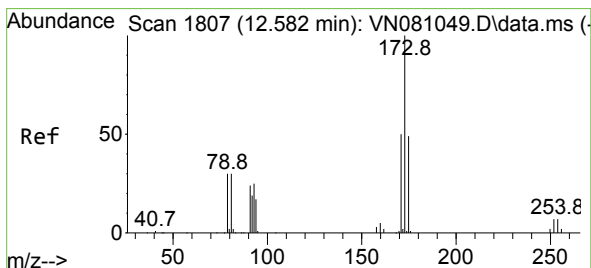
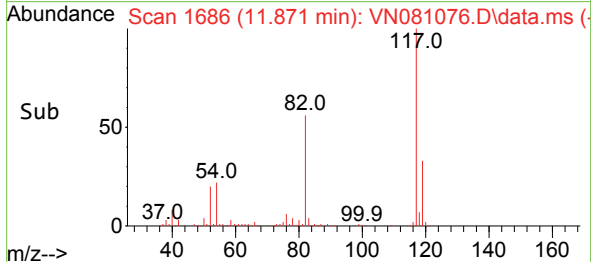
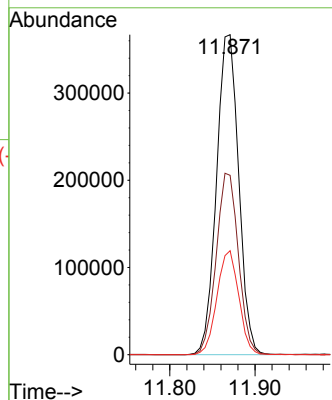
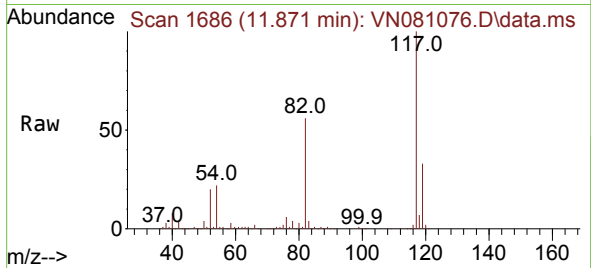




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1185
Delta R.T. 0.006 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

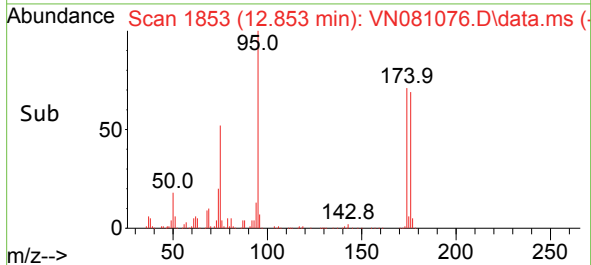
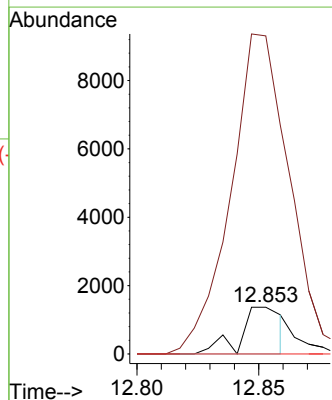
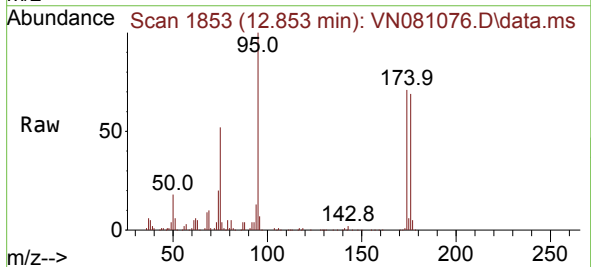
Instrument :
MSVOA_N
ClientSampleId :
PB159057ZHE#04

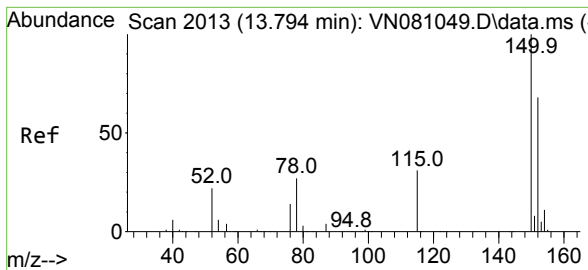
Tgt Ion:117 Resp: 663494
Ion Ratio Lower Upper
117 100
82 56.0 52.7 79.1
119 32.5 25.3 37.9



#71
Bromoform
Concen: 0.497 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN081076.D
Acq: 19 Feb 2024 15:18

Tgt Ion:173 Resp: 1626
Ion Ratio Lower Upper
173 100
175 805.8 23.1 69.2#
254 0.0 0.0 0.0

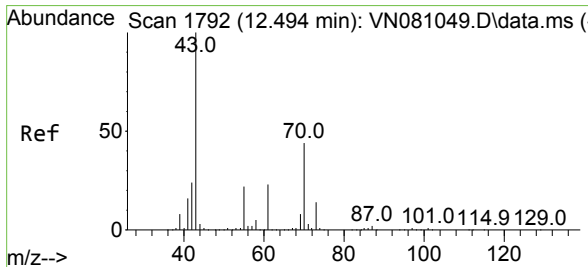
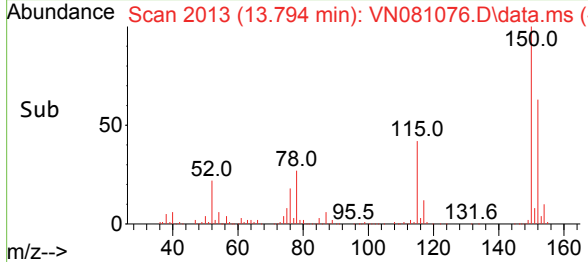
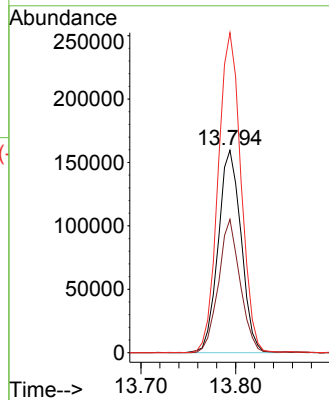
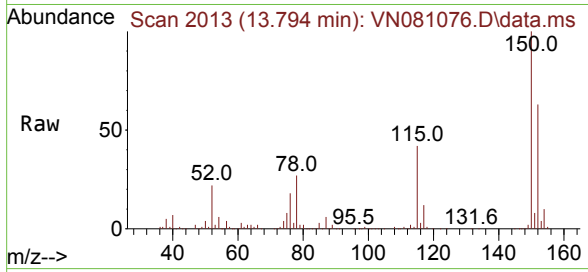




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN081076.D
 Acq: 19 Feb 2024 15:18

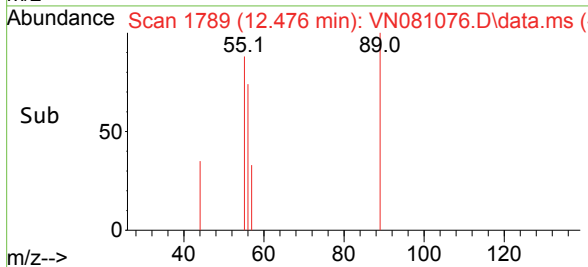
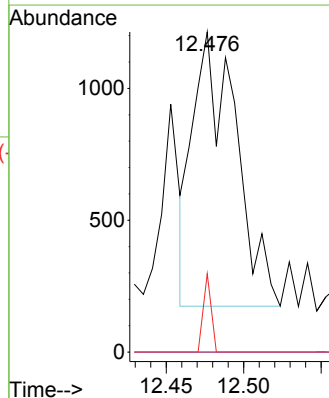
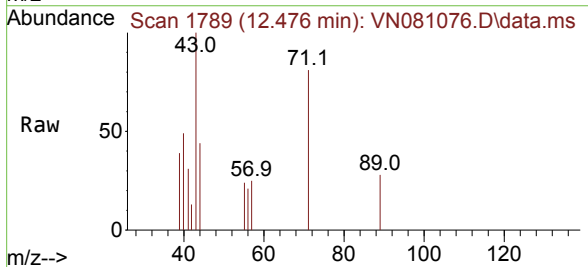
Instrument :
 MSVOA_N
 ClientSampleId :
 PB159057ZHE#04

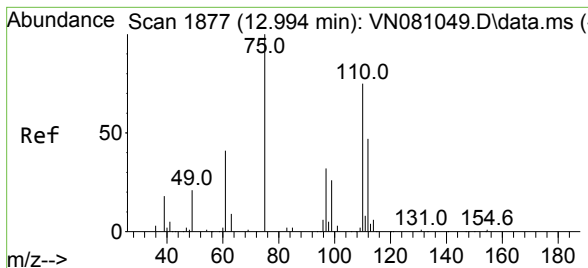
Tgt Ion:152 Resp: 268584
 Ion Ratio Lower Upper
 152 100
 115 62.4 32.3 96.8
 150 157.7 0.0 339.8



#74
 N-ethyl acetate
 Concen: 0.203 ug/l
 RT: 12.476 min Scan# 1789
 Delta R.T. -0.018 min
 Lab File: VN081076.D
 Acq: 19 Feb 2024 15:18

Tgt Ion: 43 Resp: 2017
 Ion Ratio Lower Upper
 43 100
 70 0.0 30.1 45.1#
 55 5.2 17.0 25.4#
 61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 25.416 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN081076.D

Acq: 19 Feb 2024 15:18

Instrument :

MSVOA_N

ClientSampleId :

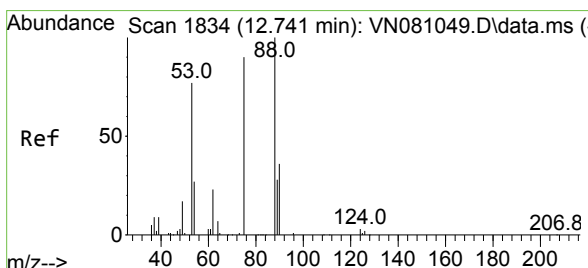
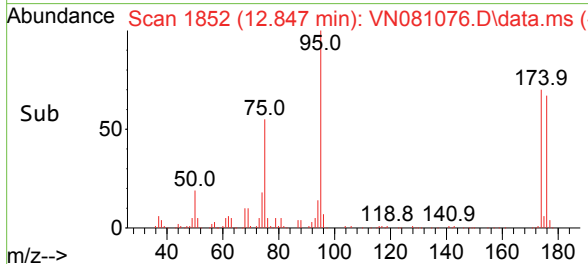
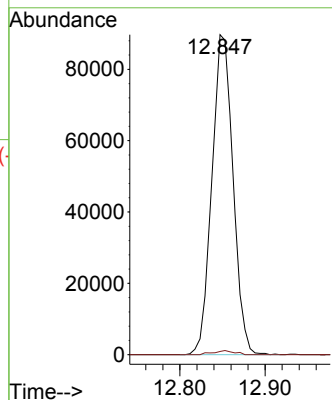
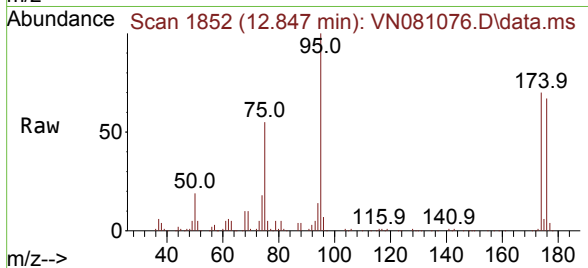
PB159057ZHE#04

Tgt Ion: 75 Resp: 155101

Ion Ratio Lower Upper

75 100

77 1.3 91.0 272.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.420 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.106 min

Lab File: VN081076.D

Acq: 19 Feb 2024 15:18

Tgt Ion: 75 Resp: 155101

Ion Ratio Lower Upper

75 100

53 0.0 71.4 107.2#

89 0.0 33.4 50.0#

