

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050924\
 Data File : VN082060.D
 Acq On : 09 May 2024 18:58
 Operator : JC\MD
 Sample : P2415-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 10 03:55:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042524W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 26 05:26:49 2024
 Response via : Initial Calibration

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

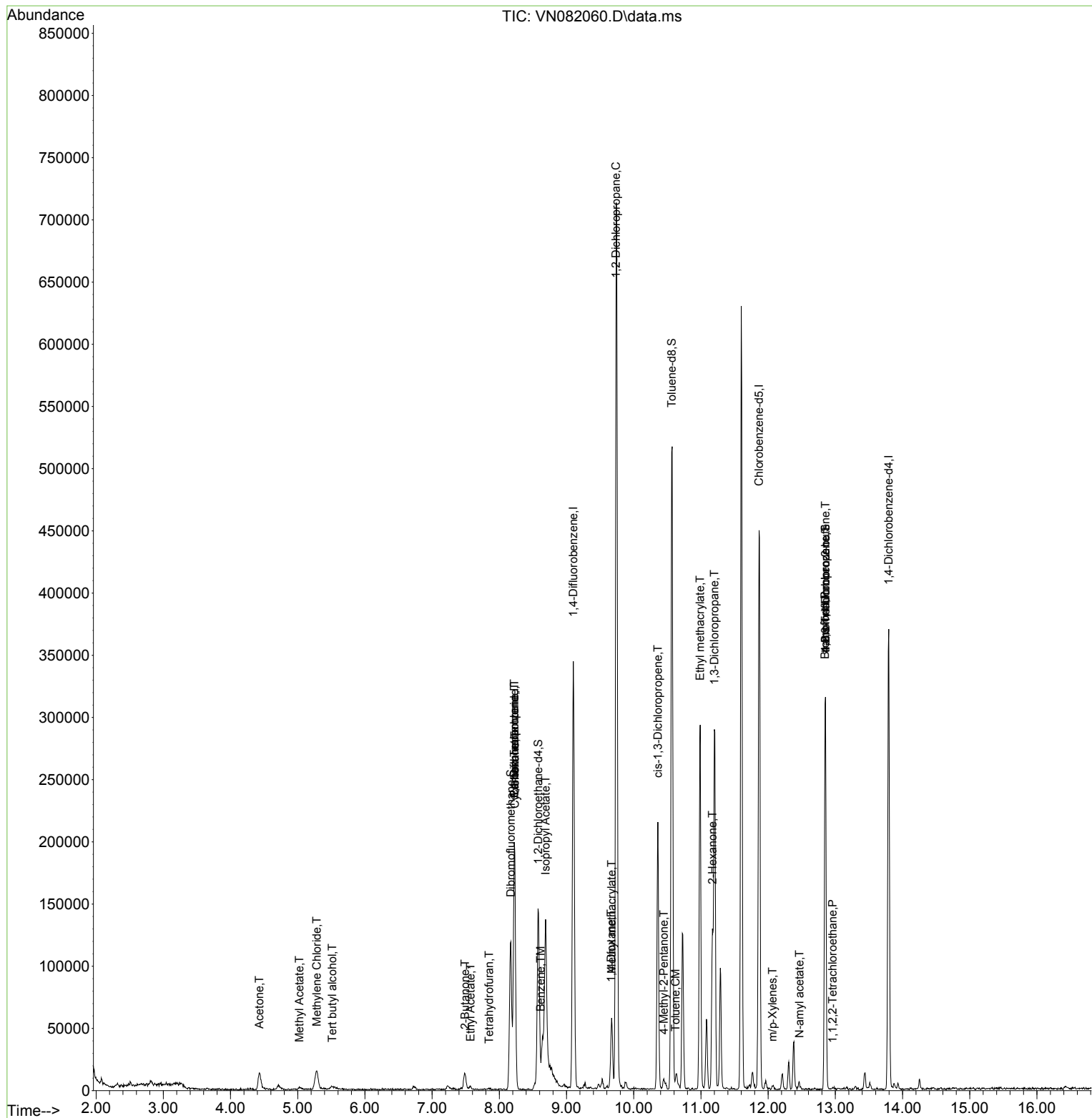
Internal Standards						
1) Pentafluorobenzene	8.224	168	126740	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	271326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	241983	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	84585	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	111838	52.284	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.560%			
35) Dibromofluoromethane	8.171	113	82855	50.719	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.440%			
50) Toluene-d8	10.565	98	348783	54.362	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.720%			
62) 4-Bromofluorobenzene	12.853	95	109655	43.235	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 86.480%			
Target Compounds					Qvalue	
5) Bromomethane	2.877	94	69	Below Cal	#	3
11) Tert butyl alcohol	5.512	59	2238	5.755	ug/l #	81
13) Acrolein	4.212	56	57	Below Cal	#	15
16) Acetone	4.430	43	24943	34.726	ug/l	99
18) Methyl Acetate	5.024	43	1981	0.914	ug/l #	80
20) Methylene Chloride	5.283	84	11634	6.347	ug/l	94
25) 2-Butanone	7.489	43	21246	17.500	ug/l #	83
29) Tetrahydrofuran	7.847	42	786	0.903	ug/l #	51
31) Cyclohexane	8.230	56	4997	1.551	ug/l #	55
36) 1,1-Dichloropropene	8.224	75	14421	5.426	ug/l #	50
37) Ethyl Acetate	7.571	43	4234	1.473	ug/l #	86
38) Carbon Tetrachloride	8.224	117	14520	5.590	ug/l #	15
40) Benzene	8.612	78	6063	0.760	ug/l #	64
43) Isopropyl Acetate	8.689	43	195969	36.270	ug/l #	73
45) 1,2-Dichloropropane	9.736	63	1210	0.580	ug/l #	45
48) Methyl methacrylate	9.671	41	3567	1.383	ug/l #	38
49) 1,4-Dioxane	9.665	88	116	2.959	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	4258	1.400	ug/l	93
52) Toluene	10.624	92	4845	1.014	ug/l	92
54) cis-1,3-Dichloropropene	10.359	75	36503	10.695	ug/l #	70
56) Ethyl methacrylate	10.988	69	844	0.236	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3153	0.944	ug/l #	42
59) 2-Hexanone	11.171	43	149841	66.197	ug/l #	23
68) m/p-Xylenes	12.065	106	1083	0.309	ug/l	97
71) Bromoform	12.847	173	778	0.576	ug/l #	28
74) N-amyl acetate	12.465	43	3710	0.886	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.959	83	636	0.282	ug/l #	25
76) 1,2,3-Trichloropropane	12.853	75	65185	29.723	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	65185	60.906	ug/l #	12

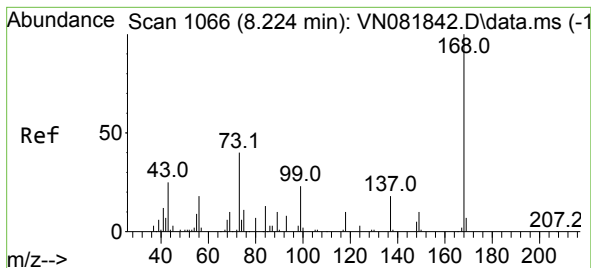
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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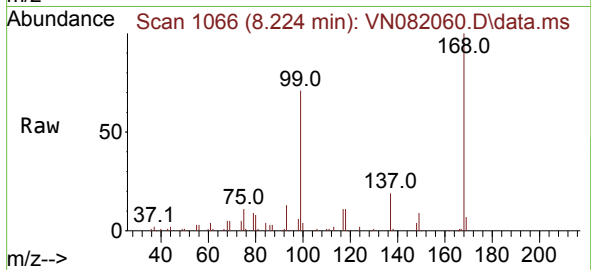
Quant Time: May 10 03:55:57 2024
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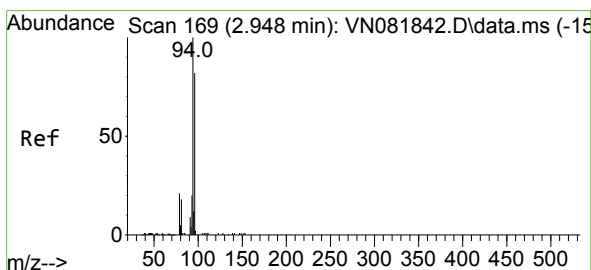
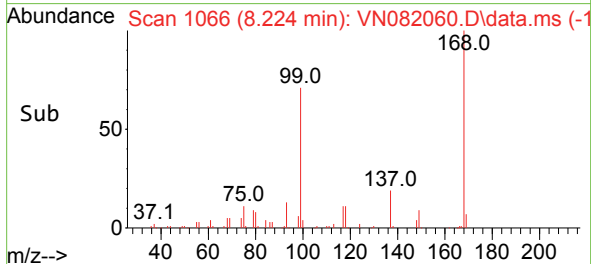
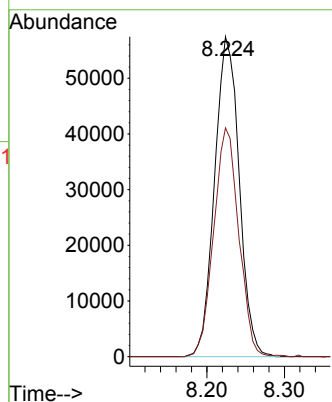


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Instrument :
MSVOA_N
ClientSampleId :

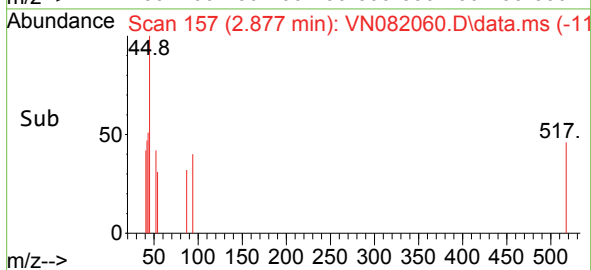
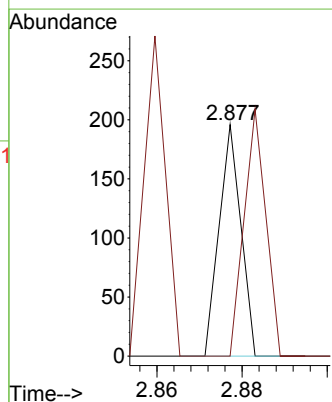
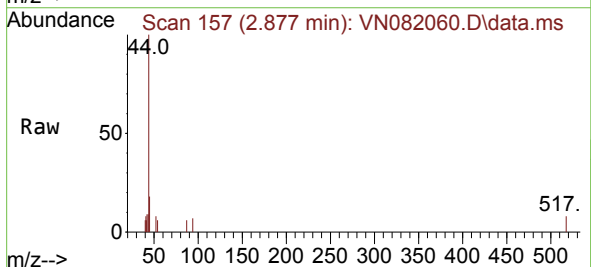


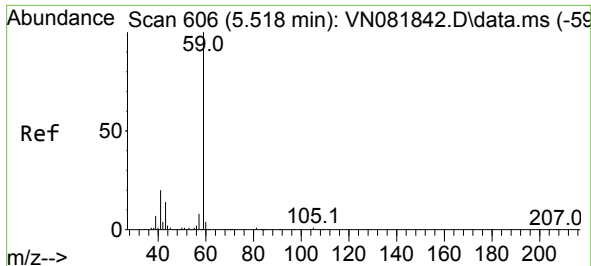
Tgt Ion:168 Resp: 126740
Ion Ratio Lower Upper
168 100
99 71.5 48.2 72.4



#5
Bromomethane
Concen: Below Cal
RT: 2.877 min Scan# 157
Delta R.T. -0.071 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

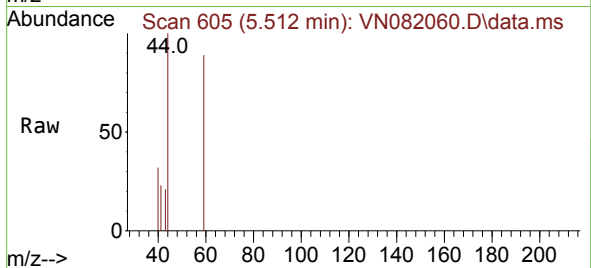
Tgt Ion: 94 Resp: 69
Ion Ratio Lower Upper
94 100
96 0.0 74.8 112.2#



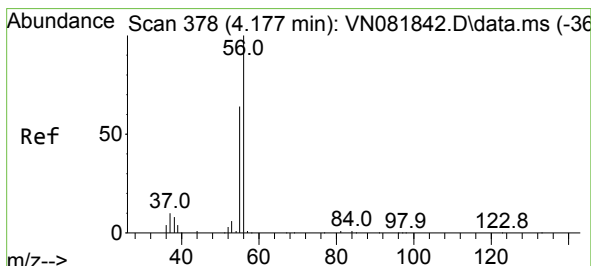
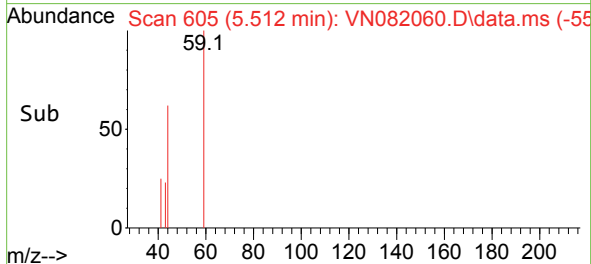
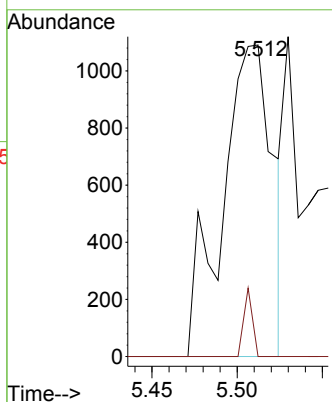


#11
Tert butyl alcohol
Concen: 5.755 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Instrument :
MSVOA_N
ClientSampleId :

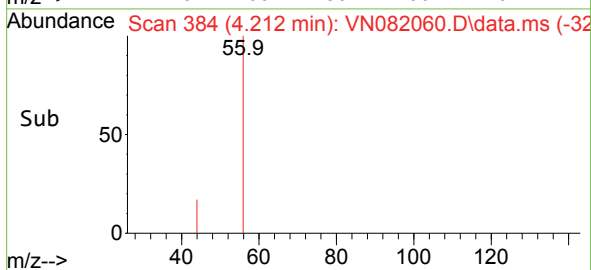
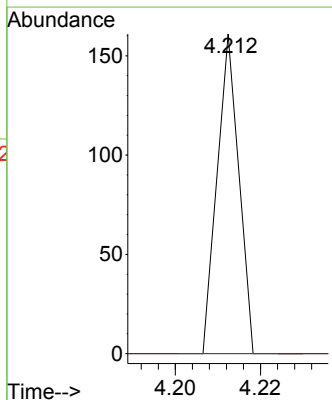
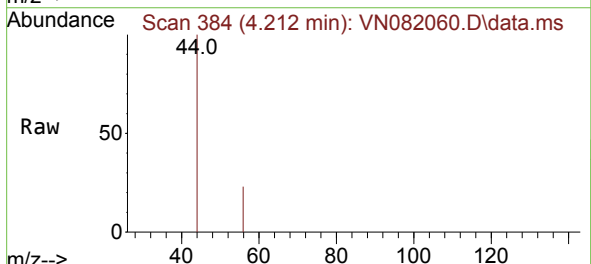


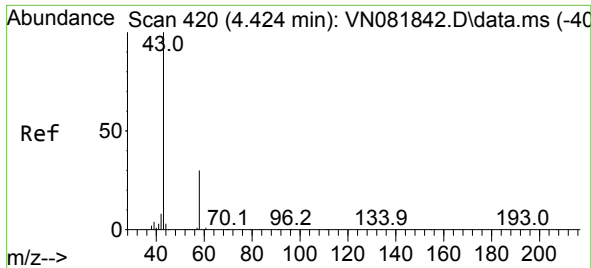
Tgt Ion: 59 Resp: 2238
Ion Ratio Lower Upper
59 100
57 3.8 8.9 13.3#



#13
Acrolein
Concen: Below Cal
RT: 4.212 min Scan# 384
Delta R.T. 0.035 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Tgt Ion: 56 Resp: 57
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.8#

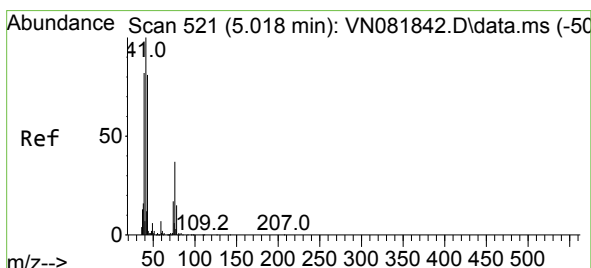
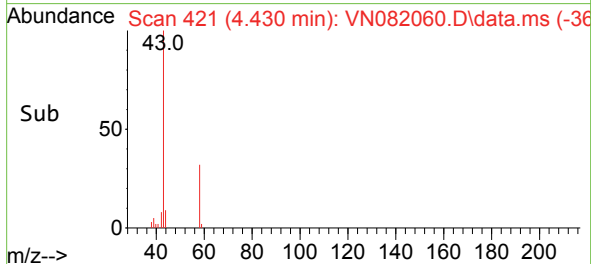
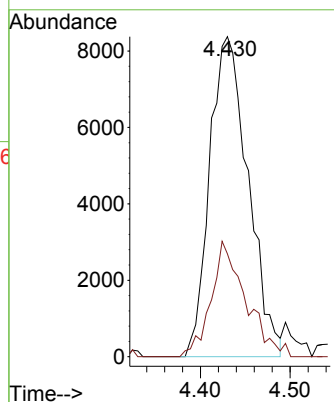
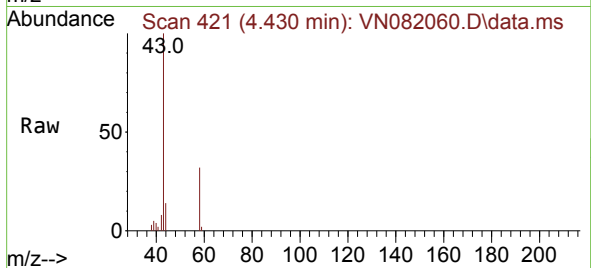




#16
Acetone
Concen: 34.726 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

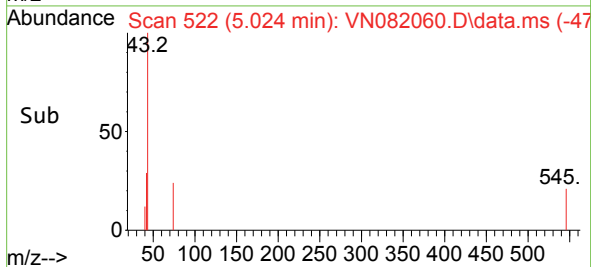
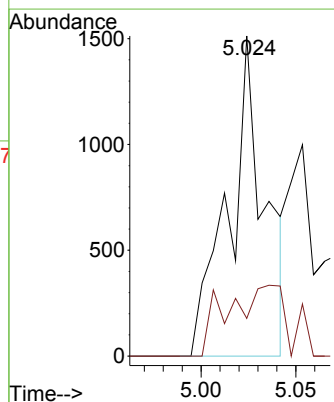
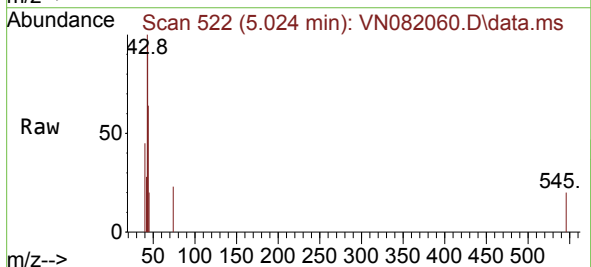
Instrument :
MSVOA_N
ClientSampleId :

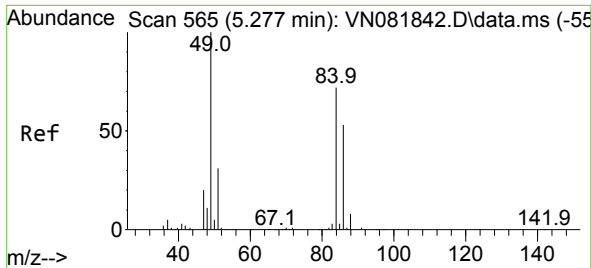
Tgt Ion: 43 Resp: 24943
Ion Ratio Lower Upper
43 100
58 32.1 25.2 37.8



#18
Methyl Acetate
Concen: 0.914 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

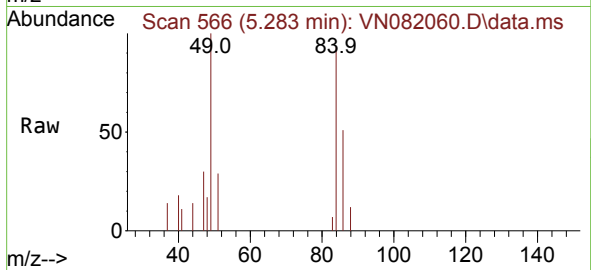
Tgt Ion: 43 Resp: 1981
Ion Ratio Lower Upper
43 100
74 38.3 22.2 33.2#



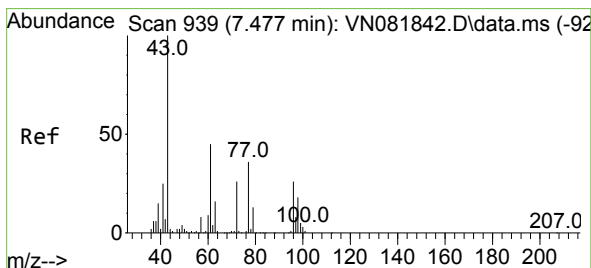
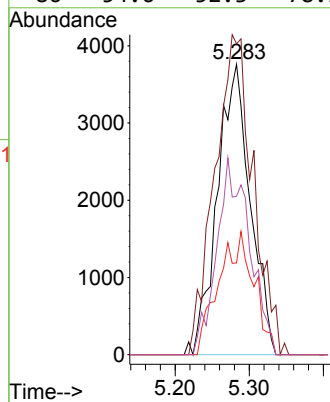
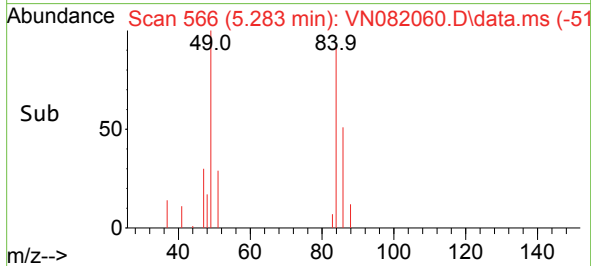


#20
Methylene Chloride
Concen: 6.347 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Instrument :
MSVOA_N
ClientSampleId :

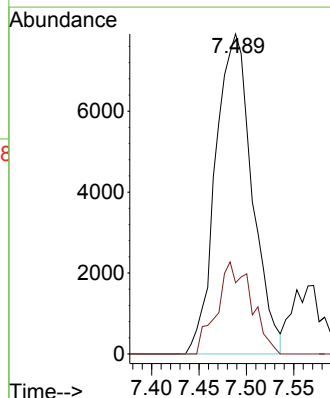
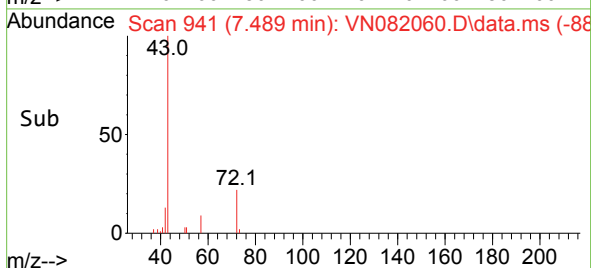
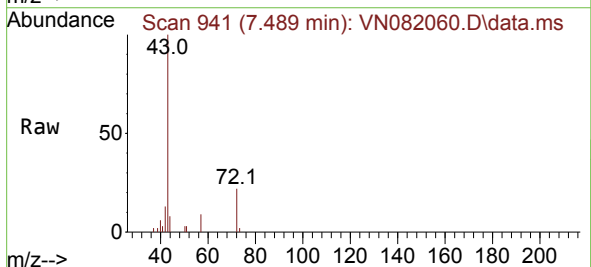


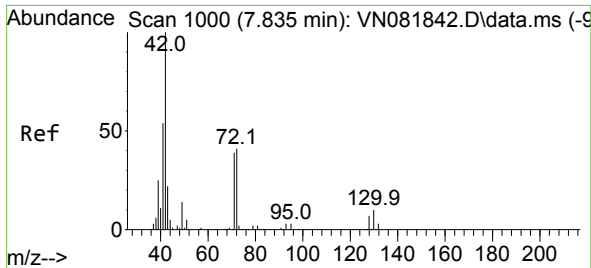
Tgt Ion:	84	Resp:	11634
Ion	Ratio	Lower	Upper
84	100		
49	107.1	84.9	127.3
51	31.6	27.0	40.6
86	54.6	52.3	78.5



#25
2-Butanone
Concen: 17.500 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

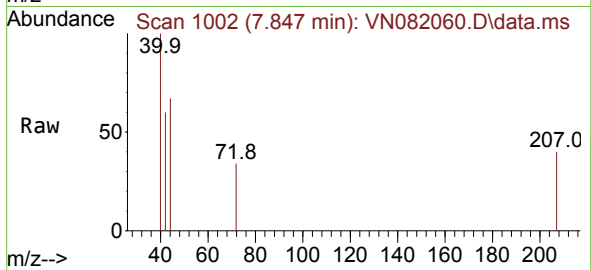
Tgt Ion:	43	Resp:	21246
Ion	Ratio	Lower	Upper
43	100		
72	22.3	25.3	37.9#



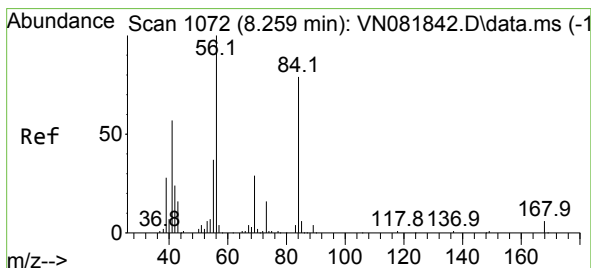
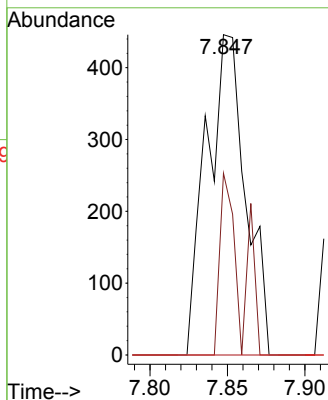
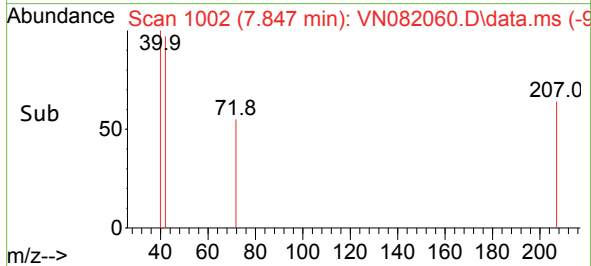


#29
Tetrahydrofuran
Concen: 0.903 ug/l
RT: 7.847 min Scan# 1067
Delta R.T. 0.012 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Instrument :
MSVOA_N
ClientSampleId :

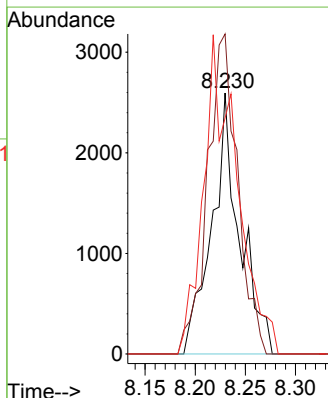
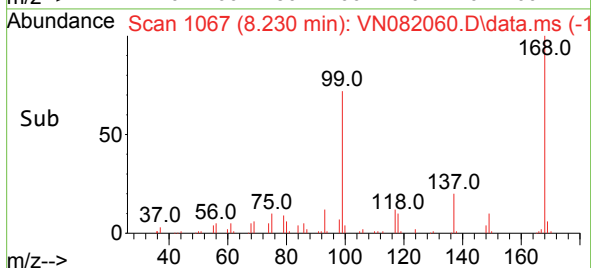
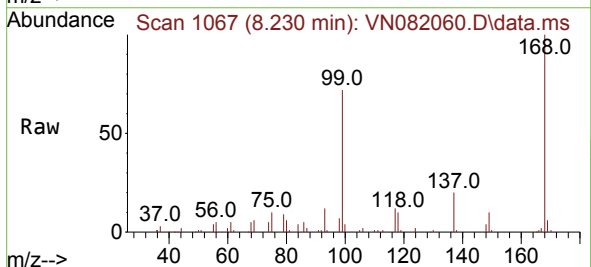


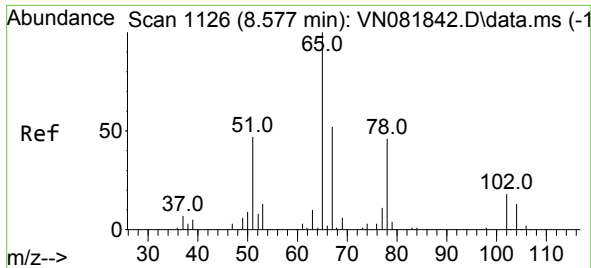
Tgt Ion: 42 Resp: 786
Ion Ratio Lower Upper
42 100
72 29.6 39.3 58.9#
71 0.0 37.4 56.0#



#31
Cyclohexane
Concen: 1.551 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Tgt Ion: 56 Resp: 4997
Ion Ratio Lower Upper
56 100
69 122.6 24.4 36.6#
84 90.4 77.0 115.4





#33

1,2-Dichloroethane-d4

Concen: 52.284 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

Instrument :

MSVOA_N

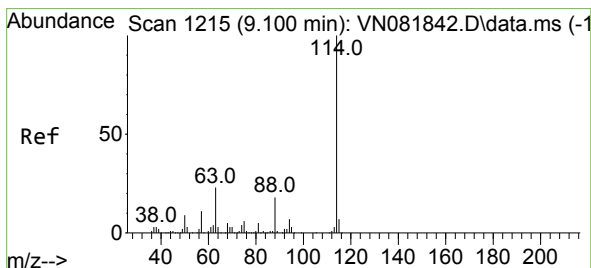
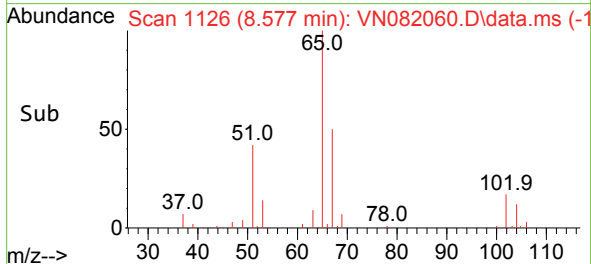
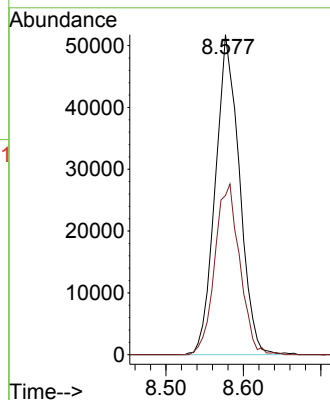
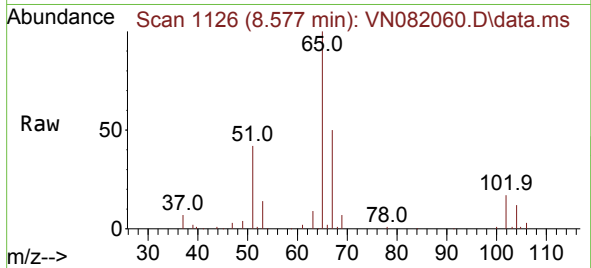
ClientSampleId :

Tgt Ion: 65 Resp: 111838

Ion Ratio Lower Upper

65 100

67 55.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

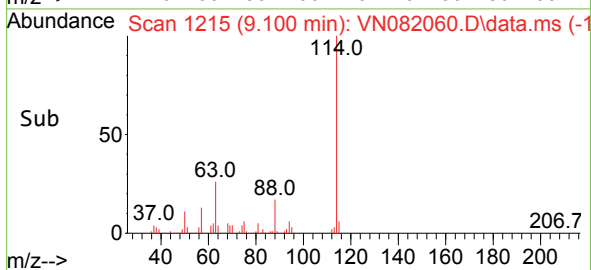
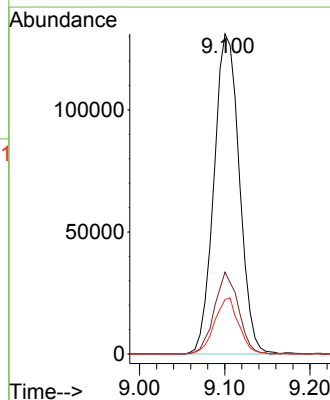
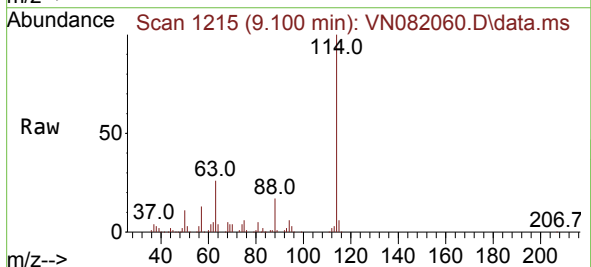
Tgt Ion: 114 Resp: 271326

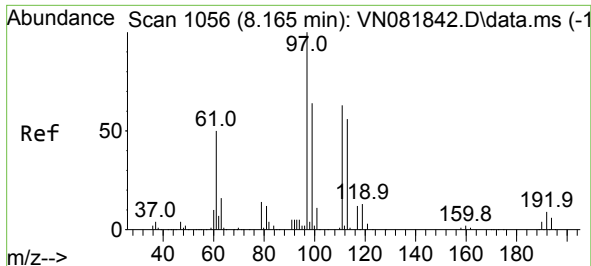
Ion Ratio Lower Upper

114 100

63 25.6 0.0 41.0

88 17.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.719 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

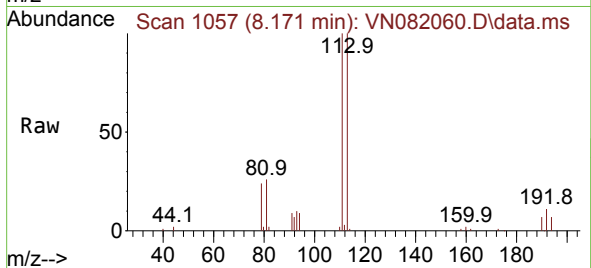
Lab File: VN082060.D

Acq: 09 May 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :



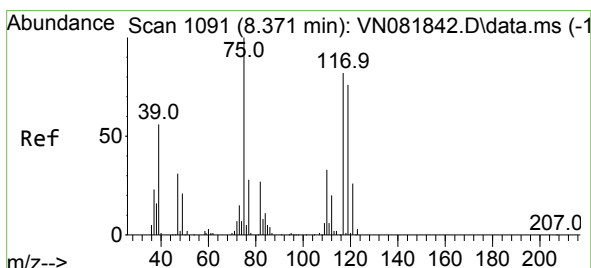
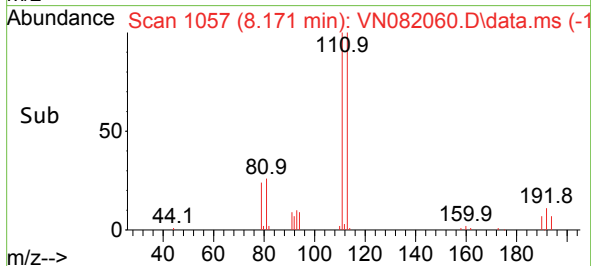
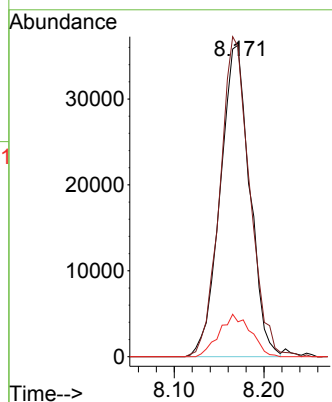
Tgt Ion:113 Resp: 82855

Ion Ratio Lower Upper

113 100

111 103.9 83.4 125.2

192 14.5 14.0 21.0



#36

1,1-Dichloropropene

Concen: 5.426 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

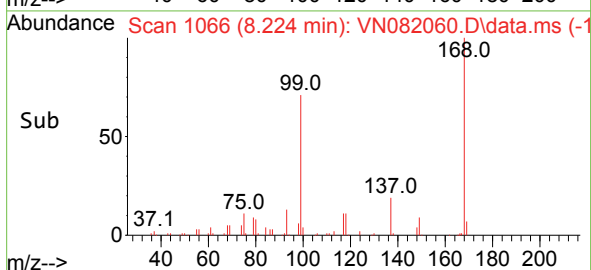
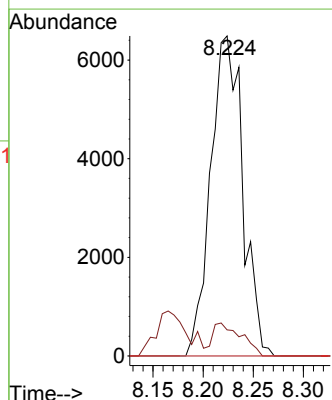
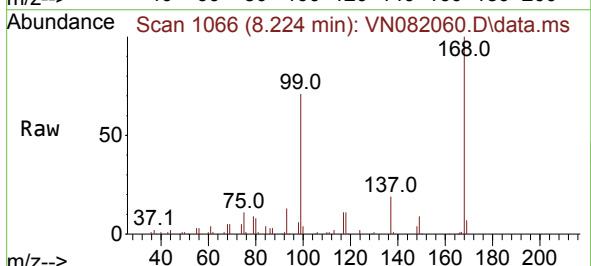
Tgt Ion: 75 Resp: 14421

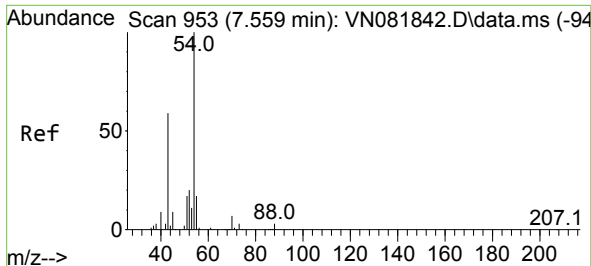
Ion Ratio Lower Upper

75 100

110 9.3 17.8 53.5#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.473 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.012 min

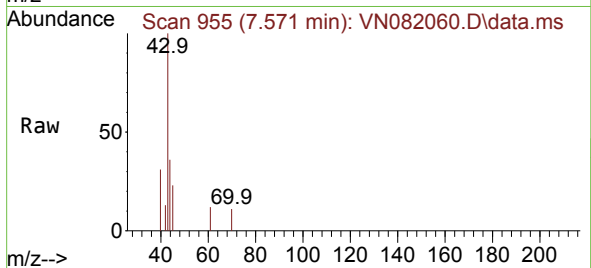
Lab File: VN082060.D

Acq: 09 May 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :



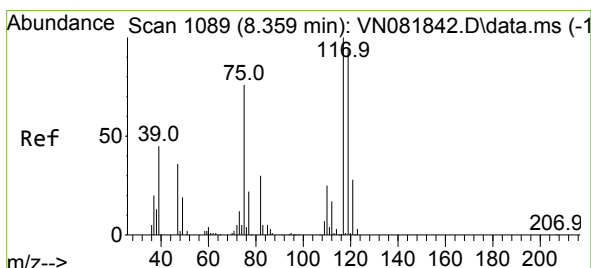
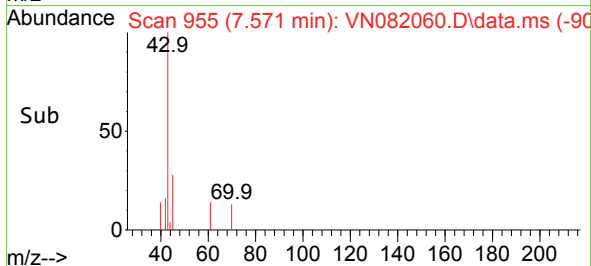
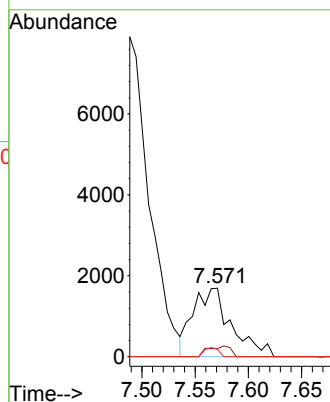
Tgt Ion: 43 Resp: 4234

Ion Ratio Lower Upper

43 100

61 9.1 11.3 16.9#

70 4.9 8.7 13.1#



#38

Carbon Tetrachloride

Concen: 5.590 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

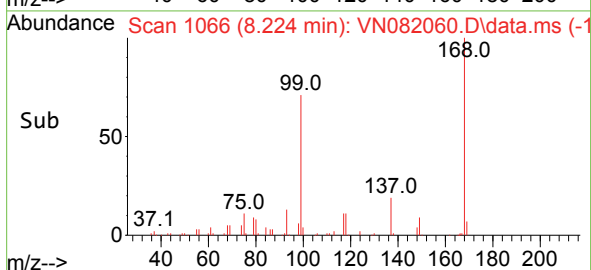
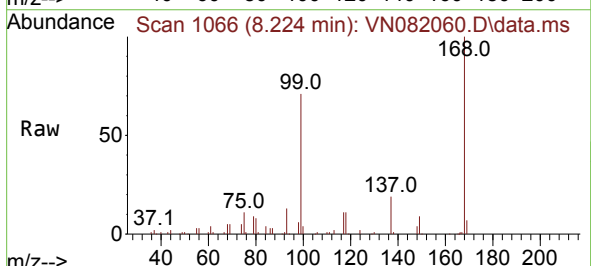
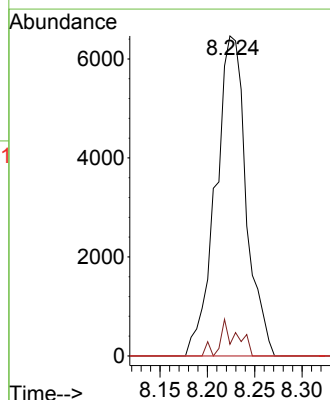
Tgt Ion: 117 Resp: 14520

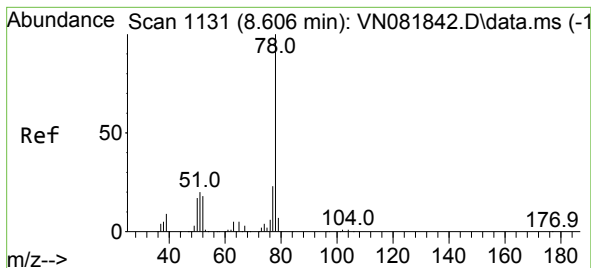
Ion Ratio Lower Upper

117 100

119 3.7 76.5 114.7#

121 0.0 23.9 35.9#





#40

Benzene

Concen: 0.760 ug/l

RT: 8.612 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

Instrument :

MSVOA_N

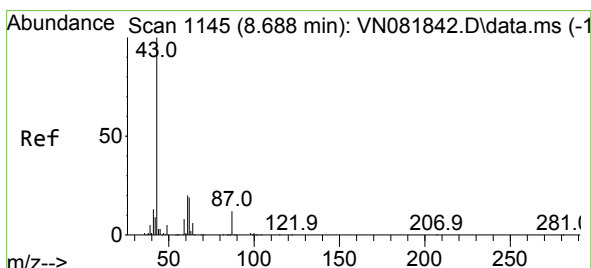
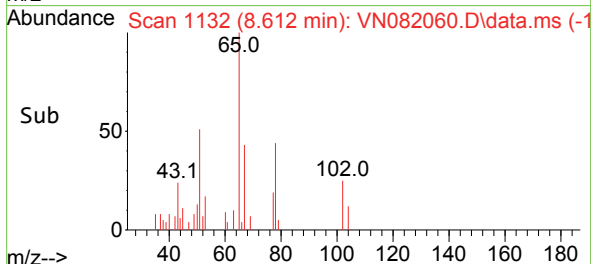
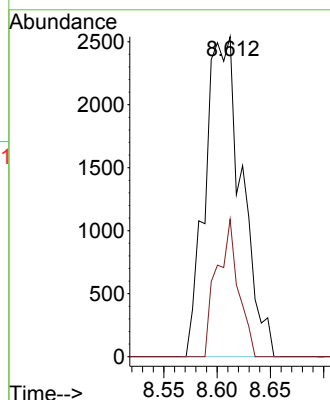
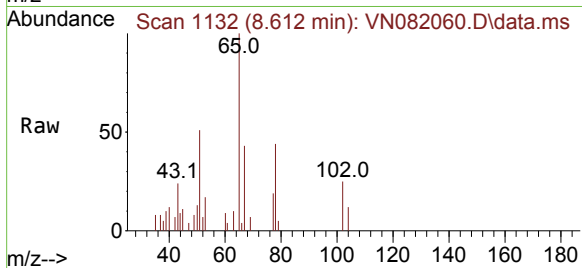
ClientSampleId :

Tgt Ion: 78 Resp: 6063

Ion Ratio Lower Upper

78 100

77 43.0 20.0 30.0#



#43

Isopropyl Acetate

Concen: 36.270 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

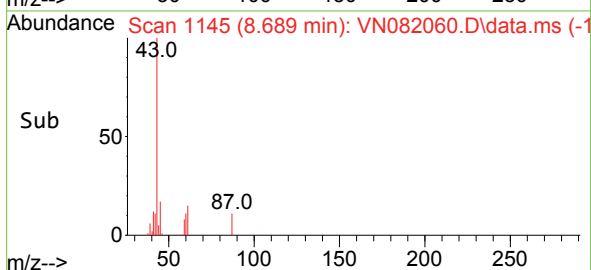
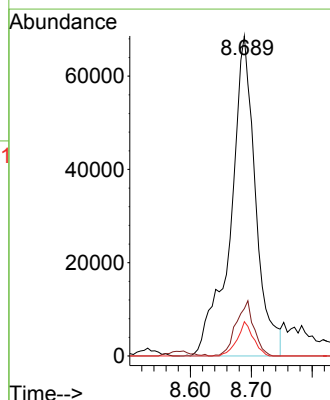
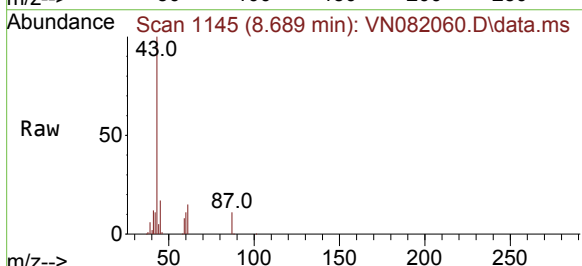
Tgt Ion: 43 Resp: 195969

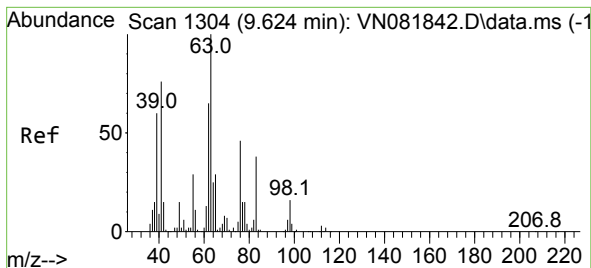
Ion Ratio Lower Upper

43 100

61 12.3 22.8 34.2#

87 6.9 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.580 ug/l

RT: 9.736 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

Instrument :

MSVOA_N

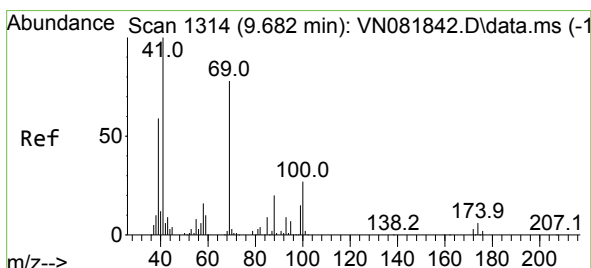
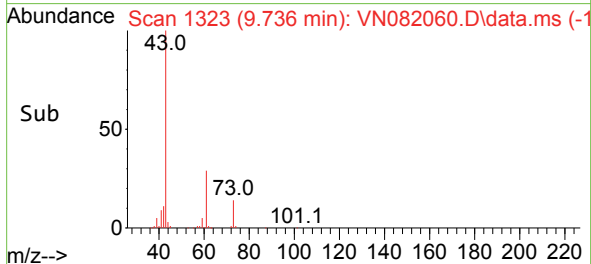
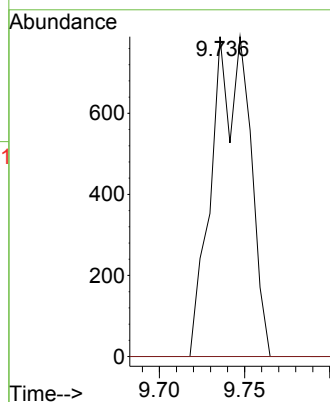
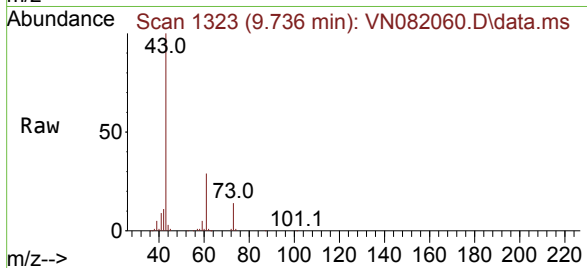
ClientSampleId :

Tgt Ion: 63 Resp: 1210

Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



#48

Methyl methacrylate

Concen: 1.383 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.012 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

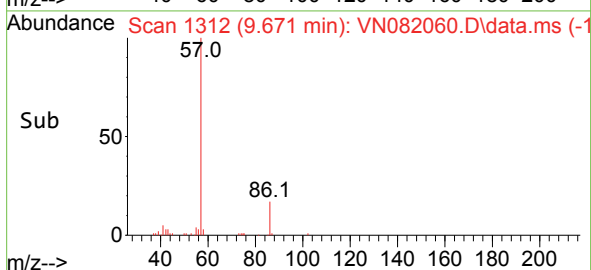
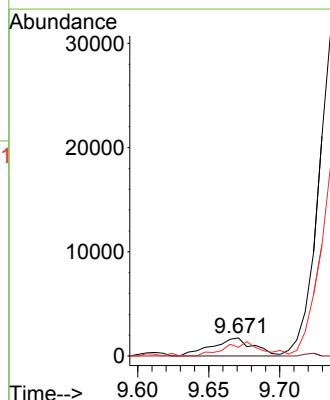
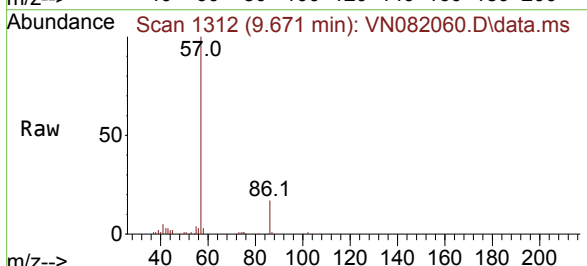
Tgt Ion: 41 Resp: 3567

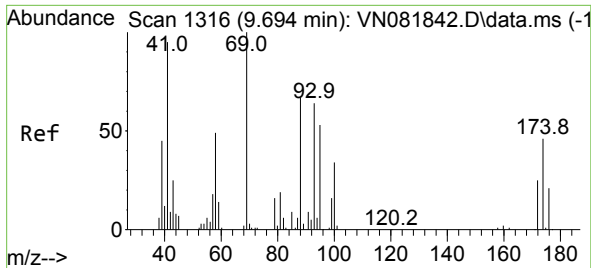
Ion Ratio Lower Upper

41 100

69 0.0 77.9 116.9#

39 68.8 50.9 76.3





#49

1,4-Dioxane

Concen: 2.959 ug/l

RT: 9.665 min Scan# 116

Delta R.T. -0.029 min

Lab File: VN082060.D

Acq: 09 May 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :

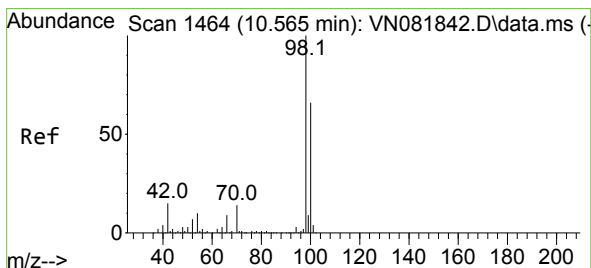
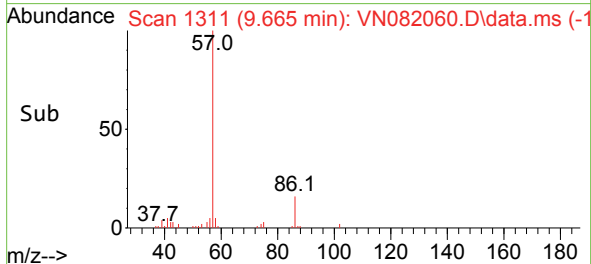
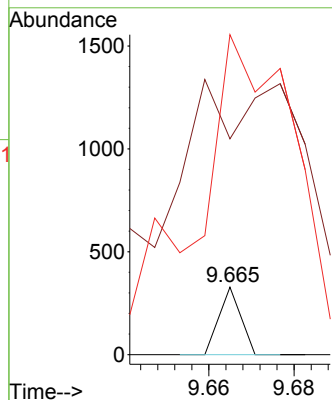
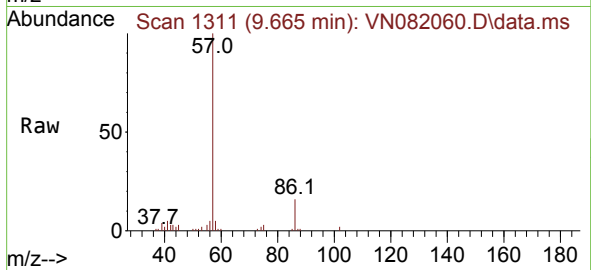
Tgt Ion: 88 Resp: 116

Ion Ratio Lower Upper

88 100

43 0.0 19.0 28.6#

58 2197.4 50.6 76.0#



#50

Toluene-d8

Concen: 54.362 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN082060.D

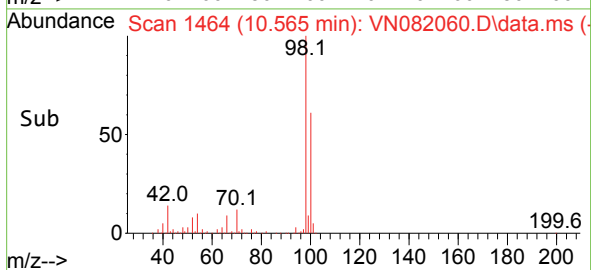
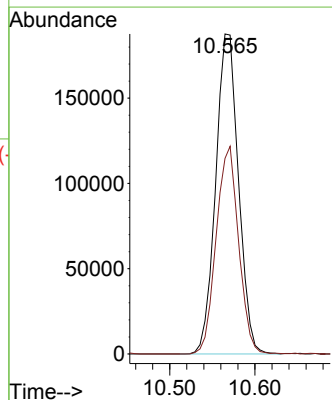
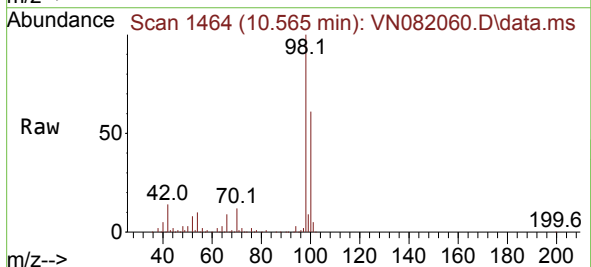
Acq: 09 May 2024 18:58

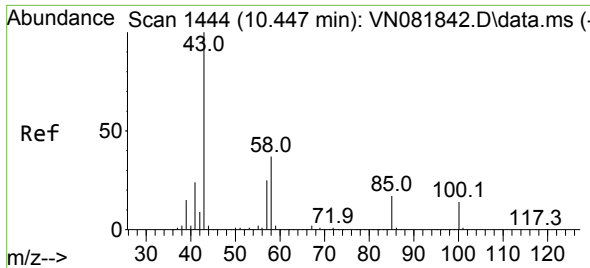
Tgt Ion: 98 Resp: 348783

Ion Ratio Lower Upper

98 100

100 63.8 51.8 77.6

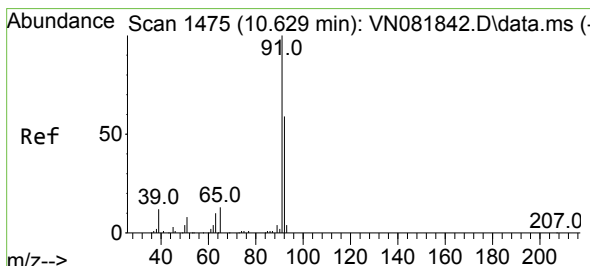
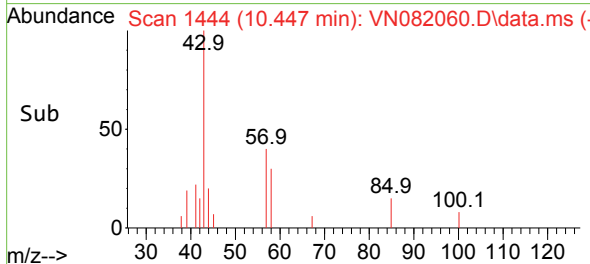
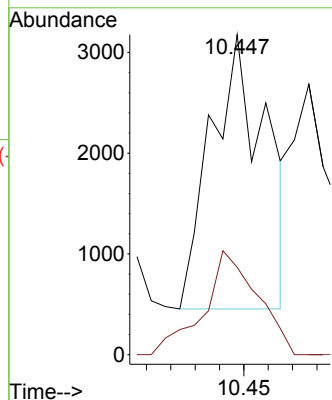
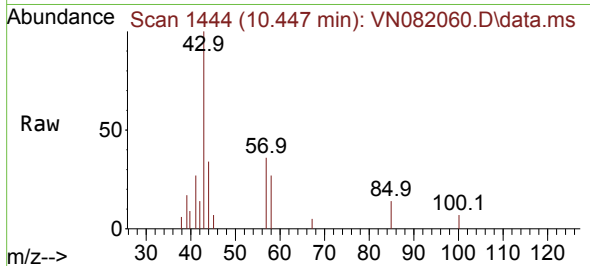




#51
4-Methyl-2-Pentanone
Concen: 1.400 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

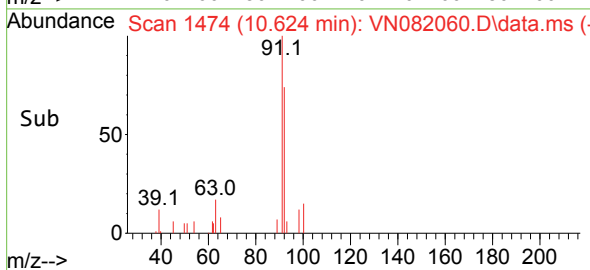
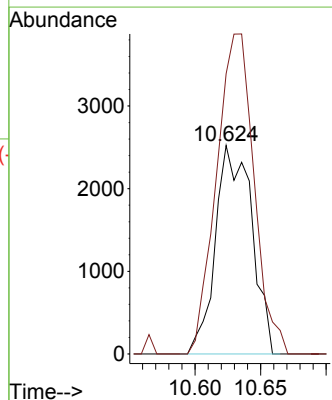
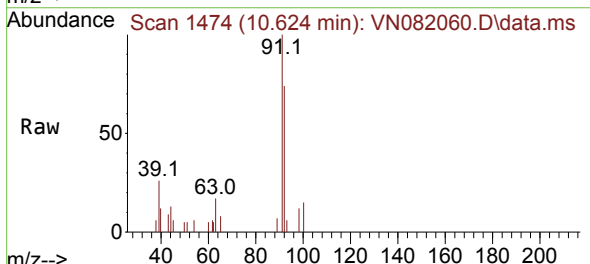
Instrument :
MSVOA_N
ClientSampleId :

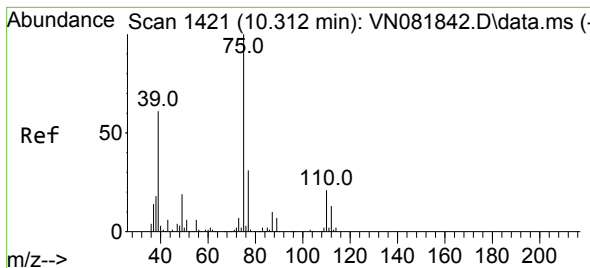
Tgt Ion: 43 Resp: 4258
Ion Ratio Lower Upper
43 100
58 37.0 33.2 49.8



#52
Toluene
Concen: 1.014 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

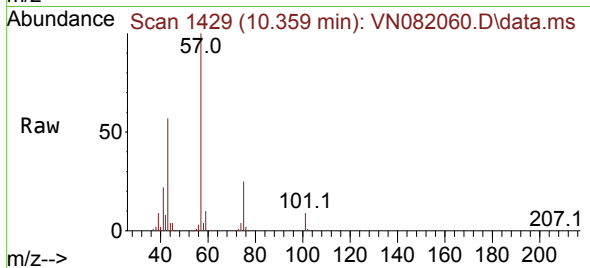
Tgt Ion: 92 Resp: 4845
Ion Ratio Lower Upper
92 100
91 159.3 136.7 205.1



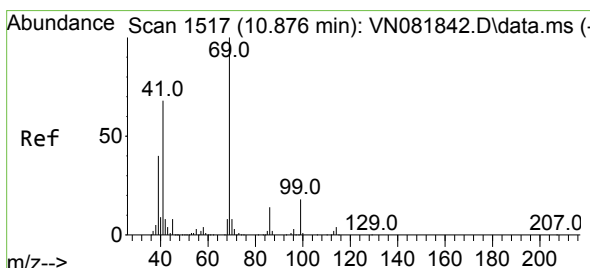
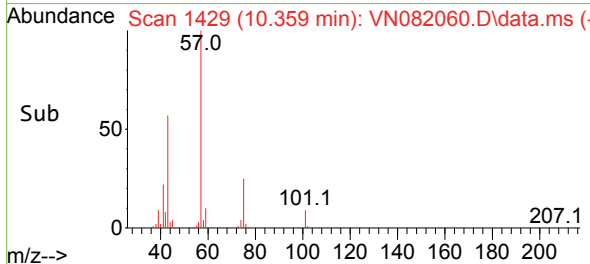
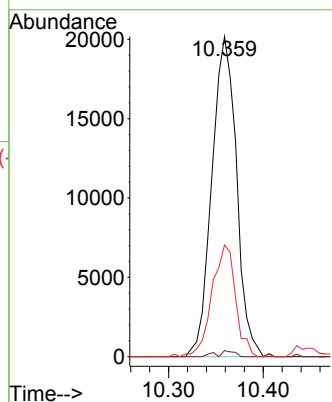


#54
 cis-1,3-Dichloropropene
 Concen: 10.695 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN082060.D
 Acq: 09 May 2024 18:58

Instrument :
 MSVOA_N
 ClientSampleId :

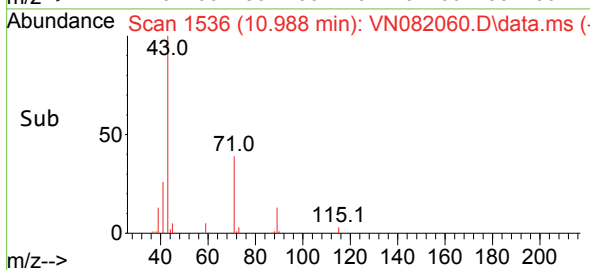
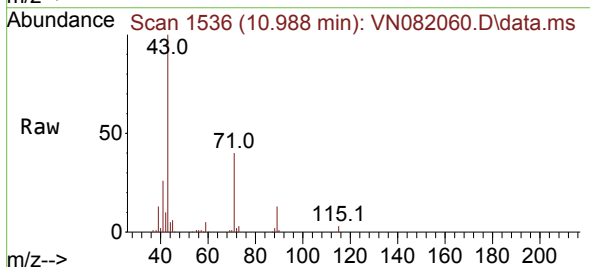
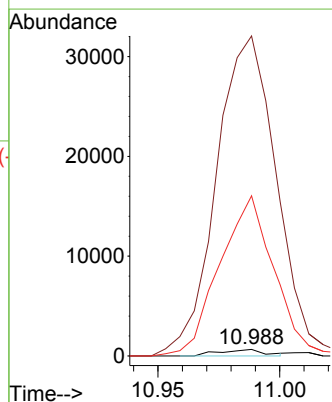


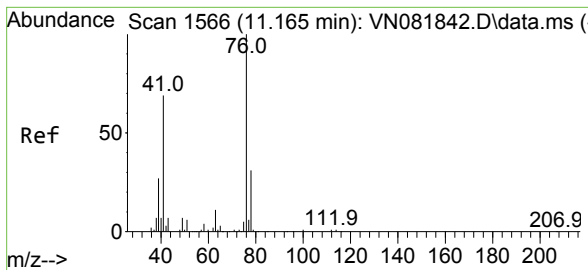
Tgt Ion: 75 Resp: 36503
 Ion Ratio Lower Upper
 75 100
 77 1.9 25.0 37.4#
 39 34.9 34.8 52.2



#56
 Ethyl methacrylate
 Concen: 0.236 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.112 min
 Lab File: VN082060.D
 Acq: 09 May 2024 18:58

Tgt Ion: 69 Resp: 844
 Ion Ratio Lower Upper
 69 100
 41 6586.8 46.6 70.0#
 39 2999.1 26.5 39.7#

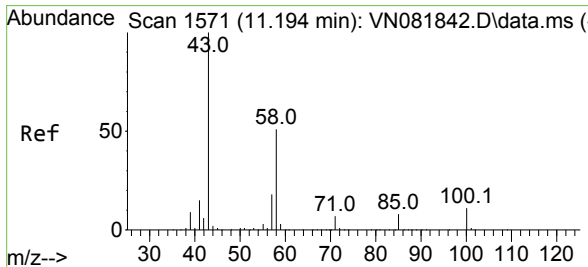
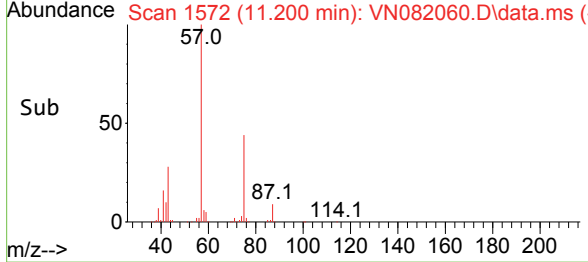
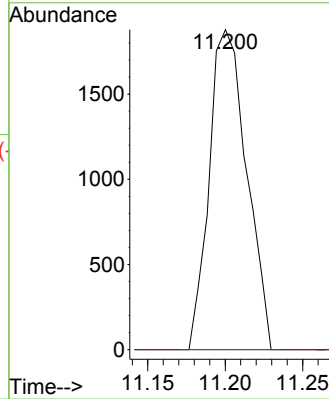
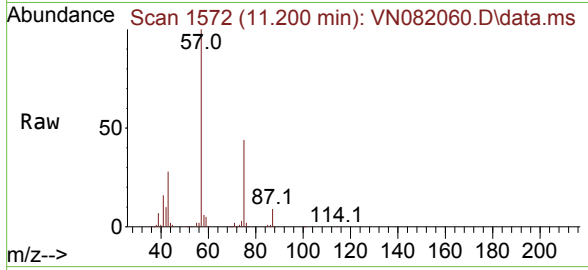




#57
1,3-Dichloropropane
Concen: 0.944 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

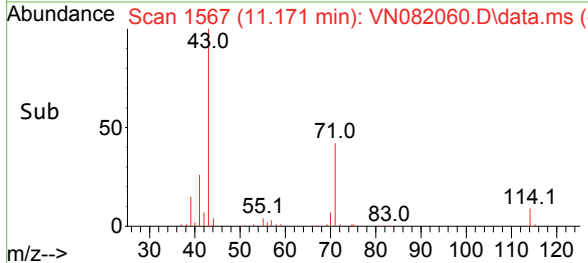
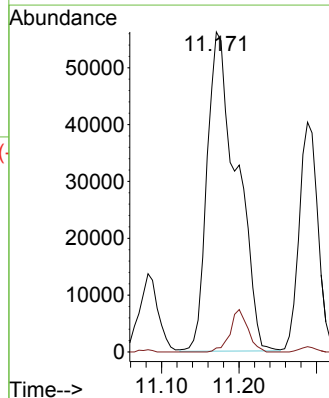
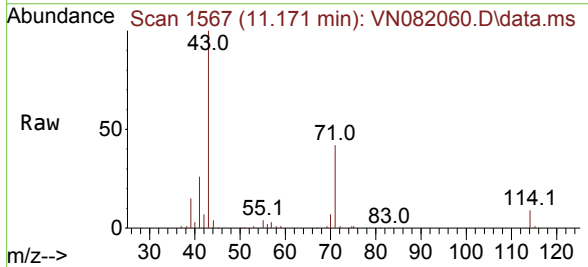
Instrument :
MSVOA_N
ClientSampleId :

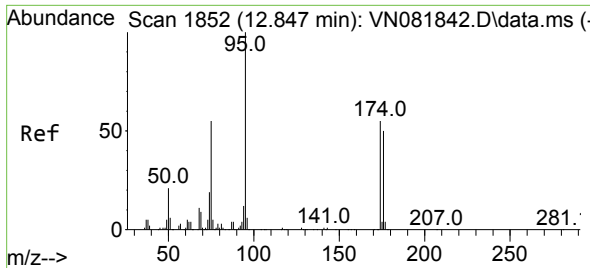
Tgt Ion: 76 Resp: 3153
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#



#59
2-Hexanone
Concen: 66.197 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Tgt Ion: 43 Resp: 149841
Ion Ratio Lower Upper
43 100
58 0.0 28.3 84.9#

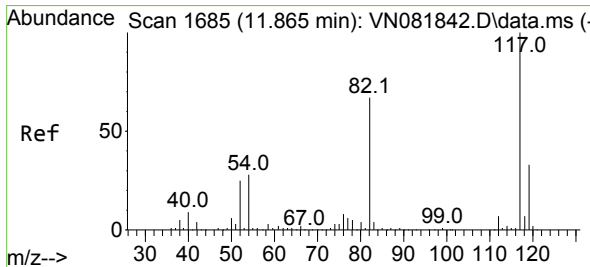
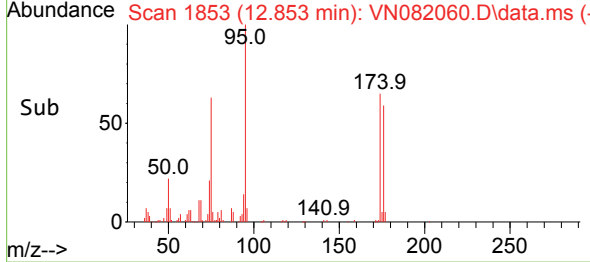
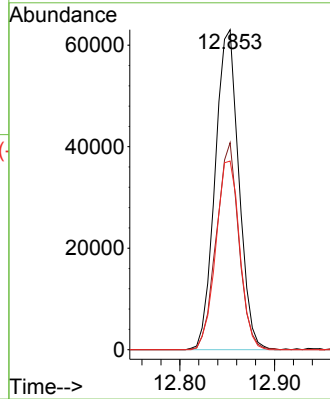
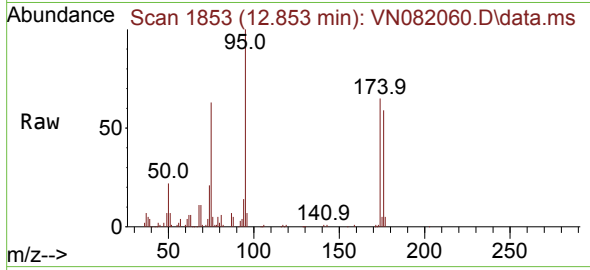




#62
4-Bromofluorobenzene
Concen: 43.235 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

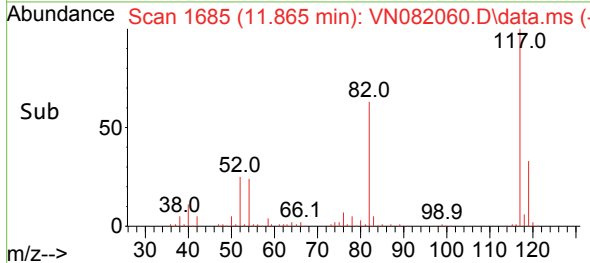
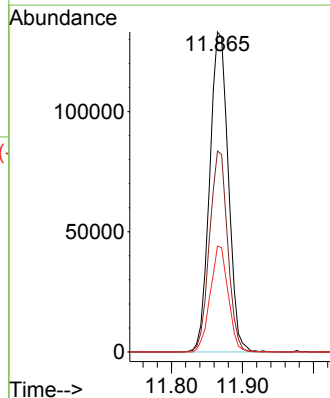
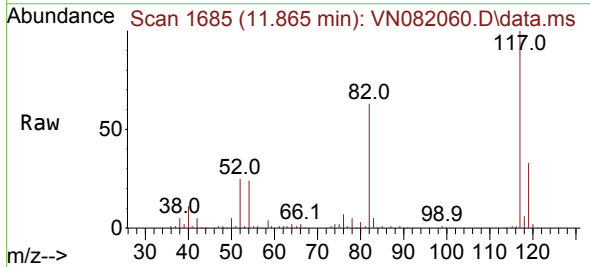
Instrument :
MSVOA_N
ClientSampleId :

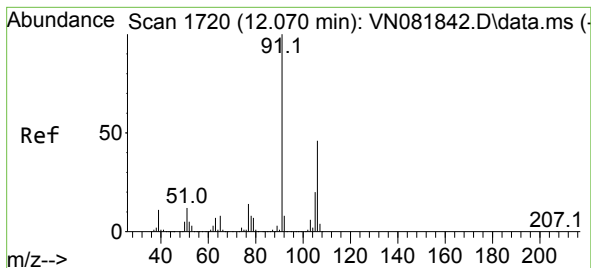
Tgt Ion: 95 Resp: 109655
Ion Ratio Lower Upper
95 100
174 61.4 0.0 160.6
176 59.4 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Tgt Ion: 117 Resp: 241983
Ion Ratio Lower Upper
117 100
82 62.8 44.6 66.8
119 33.1 25.9 38.9

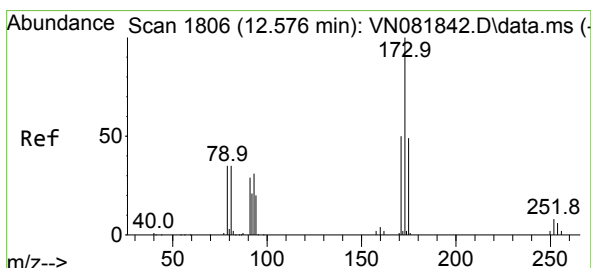
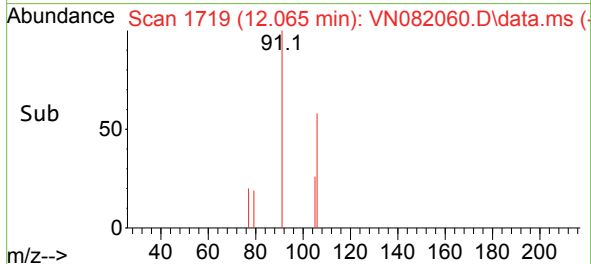
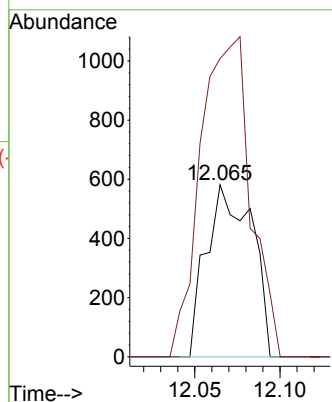
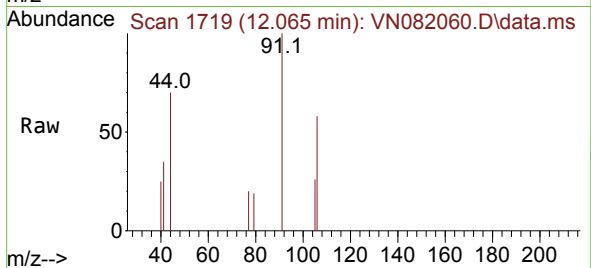




#68
m/p-Xylenes
Concen: 0.309 ug/l
RT: 12.065 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

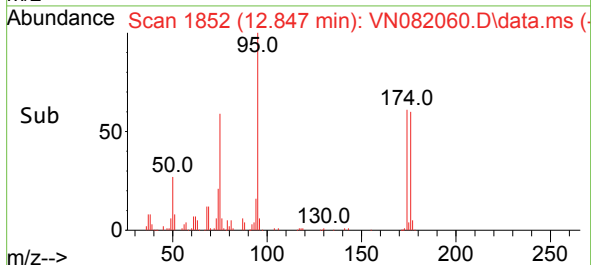
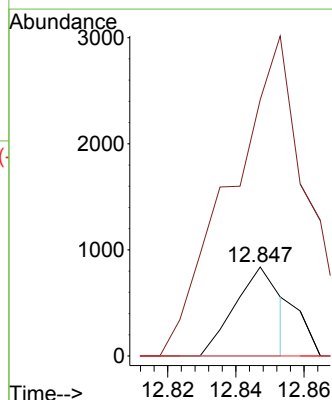
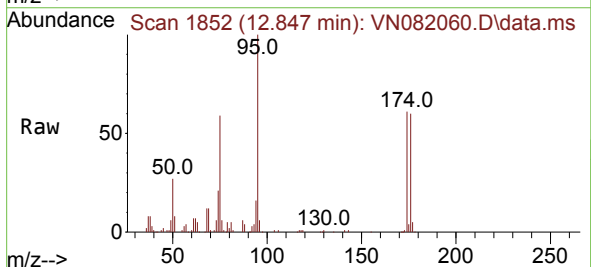
Instrument :
MSVOA_N
ClientSampleId :

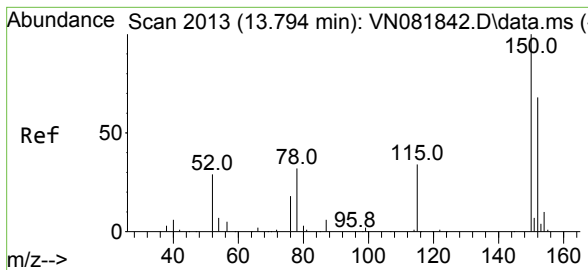
Tgt Ion:106 Resp: 1083
Ion Ratio Lower Upper
106 100
91 203.8 159.4 239.0



#71
Bromoform
Concen: 0.576 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

Tgt Ion:173 Resp: 778
Ion Ratio Lower Upper
173 100
175 0.0 24.6 74.0#
254 0.0 0.0 0.0

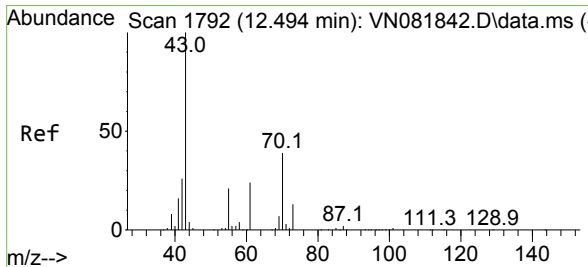
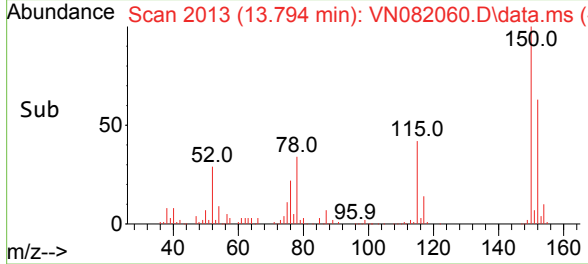
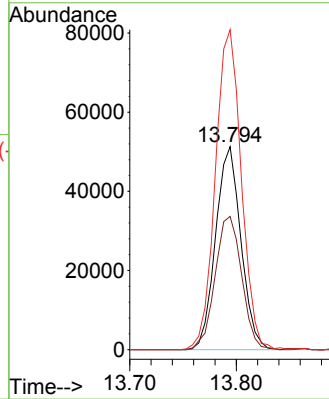
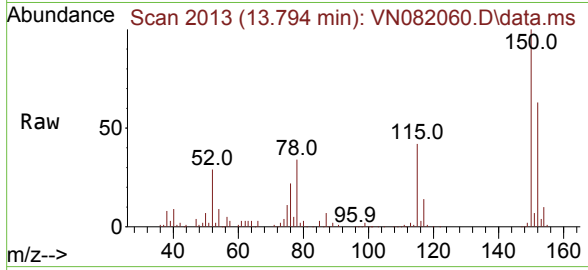




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN082060.D
 Acq: 09 May 2024 18:58

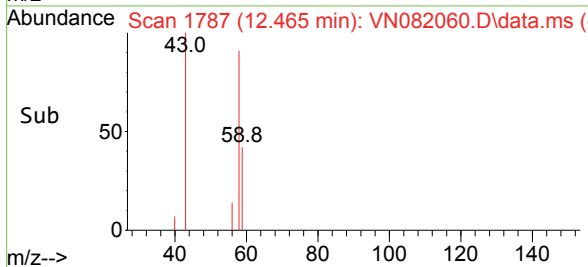
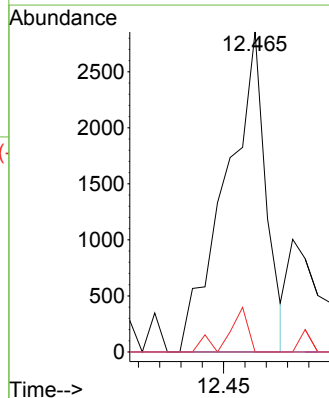
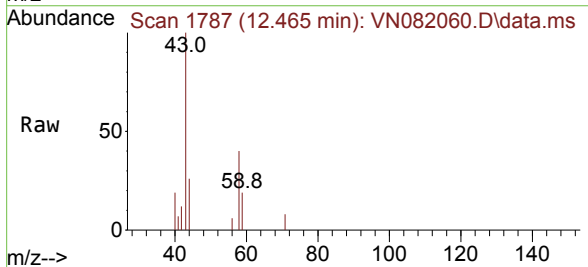
Instrument :
 MSVOA_N
 ClientSampleId :

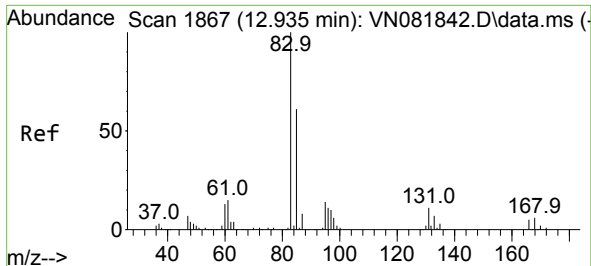
Tgt Ion:152 Resp: 84585
 Ion Ratio Lower Upper
 152 100
 115 68.8 30.4 91.3
 150 161.5 0.0 353.2



#74
 N-ethyl acetate
 Concen: 0.886 ug/l
 RT: 12.465 min Scan# 1787
 Delta R.T. -0.029 min
 Lab File: VN082060.D
 Acq: 09 May 2024 18:58

Tgt Ion: 43 Resp: 3710
 Ion Ratio Lower Upper
 43 100
 70 0.0 39.0 58.4#
 55 7.0 21.3 31.9#
 61 0.0 20.5 30.7#

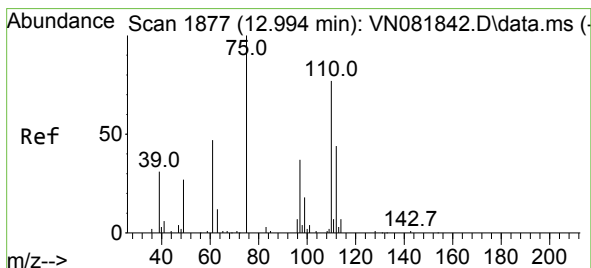
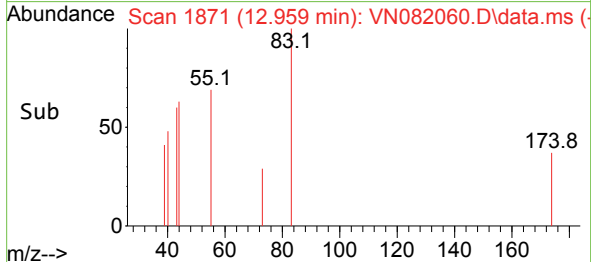
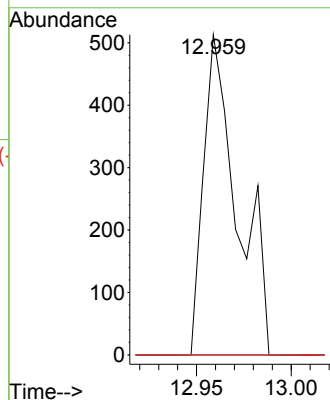
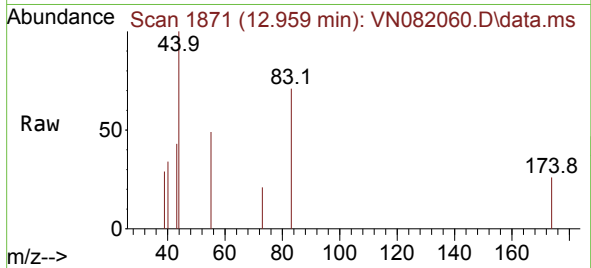




#75
1,1,2,2-Tetrachloroethane
Concen: 0.282 ug/l
RT: 12.959 min Scan# 1853
Delta R.T. 0.024 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

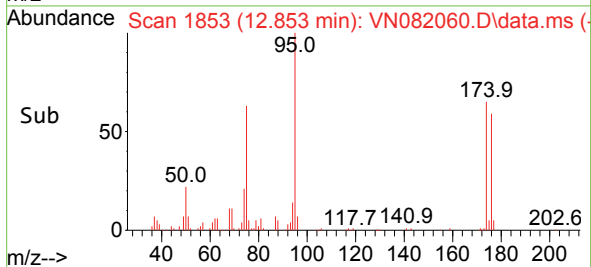
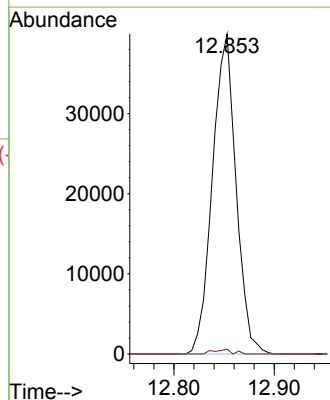
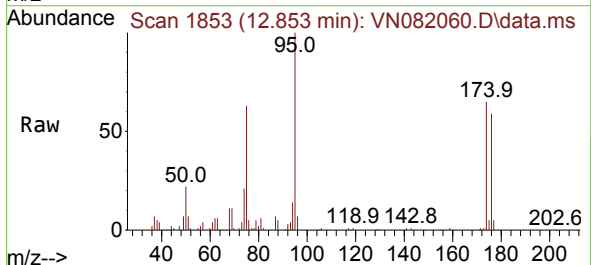
Instrument :
MSVOA_N
ClientSampleId :

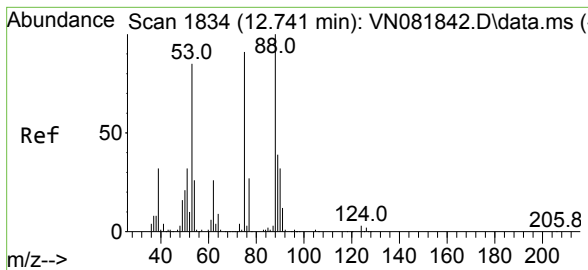
Tgt Ion: 83 Resp: 636
Ion Ratio Lower Upper
83 100
131 0.0 5.5 16.4#
85 0.0 32.9 98.6#



#76
1,2,3-Trichloropropane
Concen: 29.723 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN082060.D
Acq: 09 May 2024 18:58

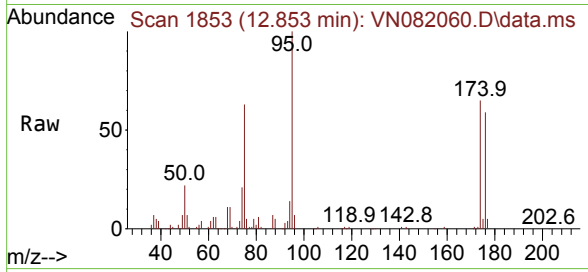
Tgt Ion: 75 Resp: 65185
Ion Ratio Lower Upper
75 100
77 1.2 90.5 271.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.906 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN082060.D
 Acq: 09 May 2024 18:58

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	72.9	109.3#
89	0.0	39.1	58.7#

