

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030624\
 Data File : VN081318.D
 Acq On : 06 Mar 2024 11:49
 Operator : JC\MD
 Sample : PB159453TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB159453TB

Quant Time: Mar 07 00:23:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030524W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 06 03:12:57 2024
 Response via : Initial Calibration

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

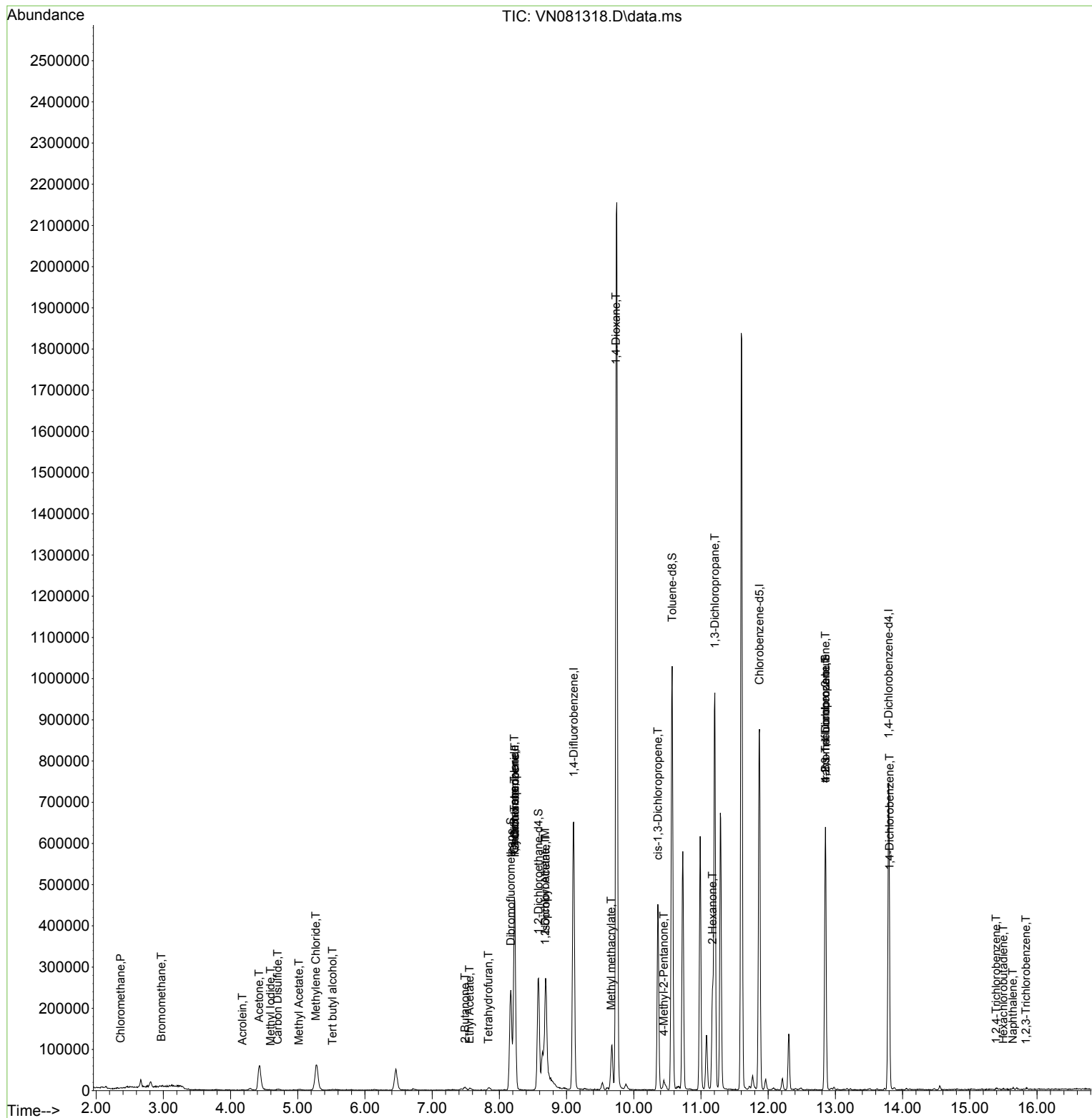
Internal Standards						
1) Pentafluorobenzene	8.230	168	311898	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	565055	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	500686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	187016	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	225301	49.959	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.920%
35) Dibromofluoromethane	8.171	113	175379	50.660	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.320%
50) Toluene-d8	10.571	98	686686	53.061	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.120%
62) 4-Bromofluorobenzene	12.853	95	209603	45.825	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	91.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1095	0.245	ug/l #	81
5) Bromomethane	2.971	94	1073	0.345	ug/l	99
10) Methyl Iodide	4.595	142	753	0.210	ug/l #	79
11) Tert butyl alcohol	5.518	59	1410	1.788	ug/l	98
13) Acrolein	4.177	56	680	0.728	ug/l #	66
16) Acetone	4.424	43	115291	72.156	ug/l	99
17) Carbon Disulfide	4.700	76	2748	0.265	ug/l #	78
18) Methyl Acetate	5.018	43	2069	0.452	ug/l #	79
20) Methylene Chloride	5.271	84	50358	12.147	ug/l	90
25) 2-Butanone	7.489	43	11117	4.155	ug/l	94
29) Tetrahydrofuran	7.836	42	3223	1.766	ug/l #	55
31) Cyclohexane	8.224	56	8207	1.202	ug/l #	5
36) 1,1-Dichloropropene	8.230	75	29724	5.322	ug/l #	50
37) Ethyl Acetate	7.559	43	7432	1.361	ug/l #	94
38) Carbon Tetrachloride	8.224	117	35185	6.259	ug/l #	21
42) 1,2-Dichloroethane	8.683	62	1744	0.297	ug/l #	75
43) Isopropyl Acetate	8.688	43	431526	45.158	ug/l #	78
48) Methyl methacrylate	9.665	41	6264	1.483	ug/l #	47
49) 1,4-Dioxane	9.735	88	121	1.300	ug/l #	18
51) 4-Methyl-2-Pentanone	10.447	43	22333	4.025	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	79307	11.849	ug/l #	59
57) 1,3-Dichloropropane	11.206	76	10141	1.455	ug/l #	44
59) 2-Hexanone	11.171	43	183163	44.156	ug/l #	26
76) 1,2,3-Trichloropropane	12.853	75	118834	26.902	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	118834	75.079	ug/l #	14
88) 1,4-Dichlorobenzene	13.806	146	1552	0.230	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.394	180	1277	0.368	ug/l	75
94) Hexachlorobutadiene	15.500	225	314	0.219	ug/l #	73
95) Naphthalene	15.641	128	3153	0.256	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.835	180	1147	0.326	ug/l	82

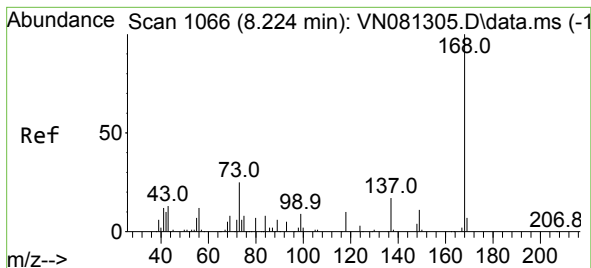
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN081318.D

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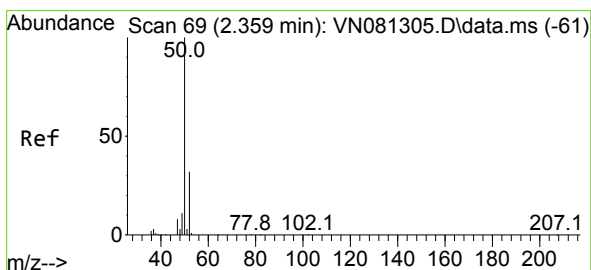
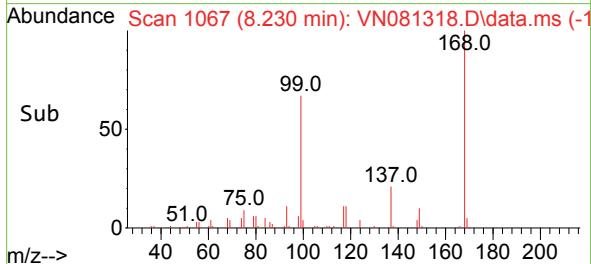
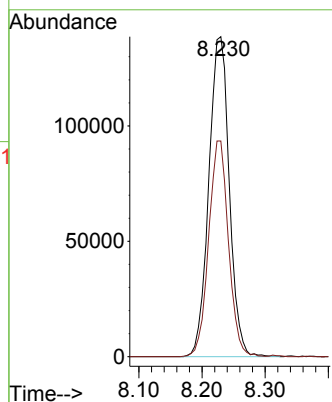
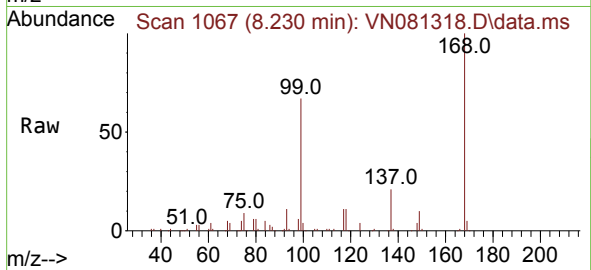
PB159453TB

Tgt Ion:168 Resp: 311898

Ion Ratio Lower Upper

168 100

99 67.4 59.9 89.9



#3

Chloromethane

Concen: 0.245 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN081318.D

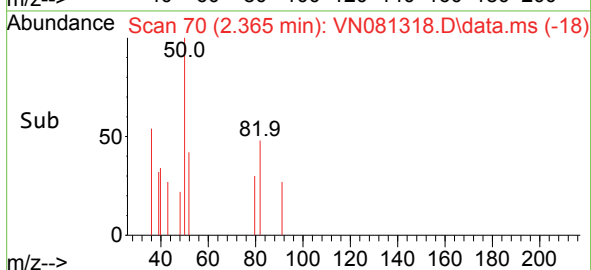
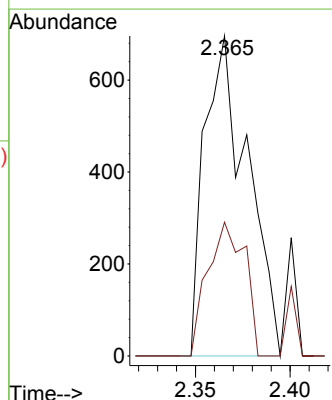
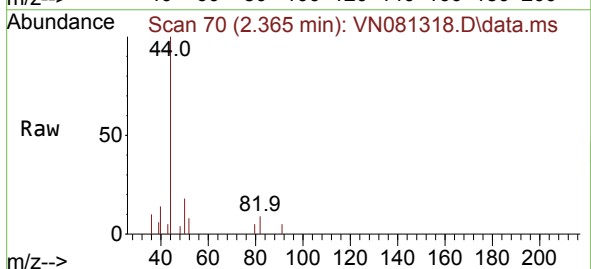
Acq: 06 Mar 2024 11:49

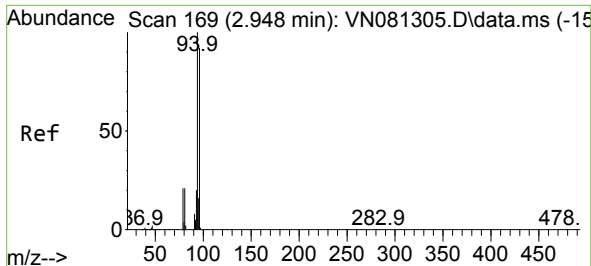
Tgt Ion: 50 Resp: 1095

Ion Ratio Lower Upper

50 100

52 41.8 25.0 37.4#

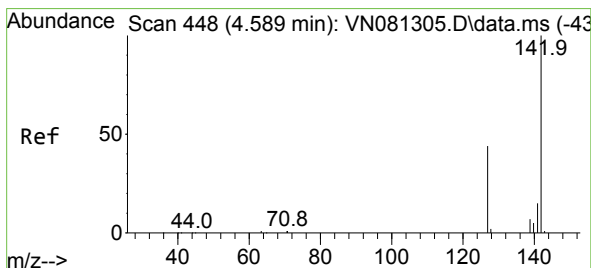
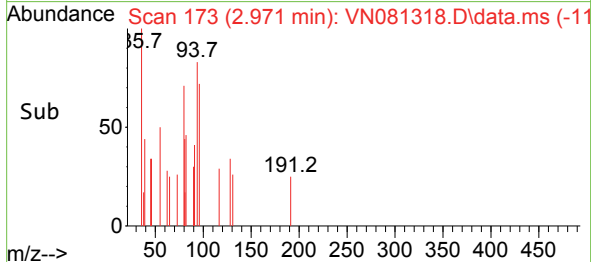
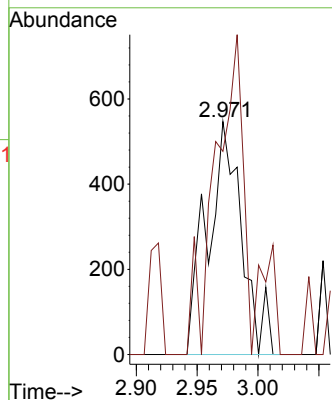
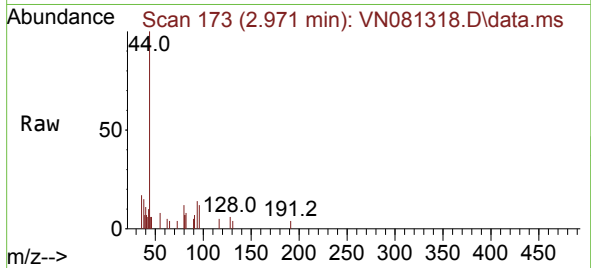




#5
Bromomethane
Concen: 0.345 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

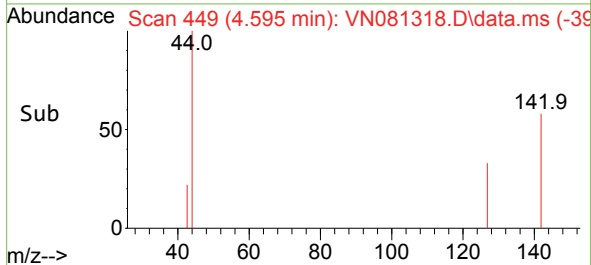
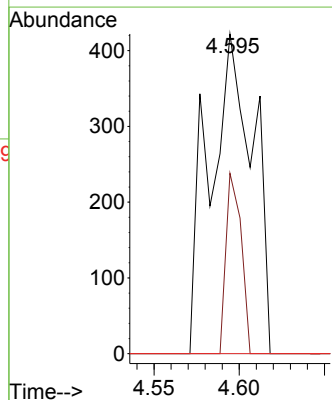
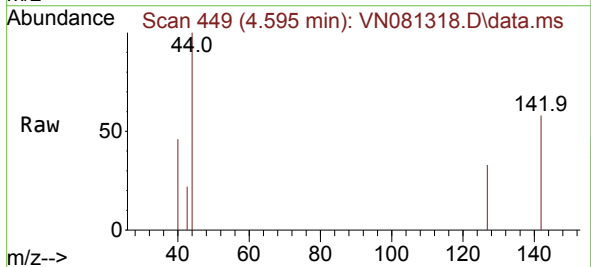
Instrument :
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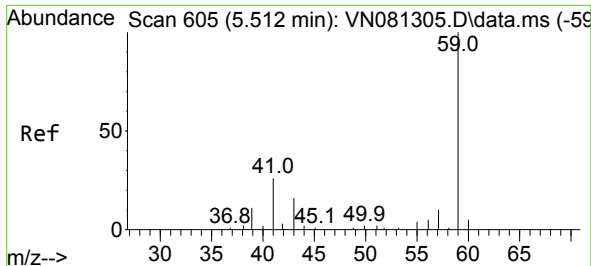
Tgt Ion: 94 Resp: 1073
Ion Ratio Lower Upper
94 100
96 87.2 69.2 103.8



#10
Methyl Iodide
Concen: 0.210 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion:142 Resp: 753
Ion Ratio Lower Upper
142 100
127 56.4 37.0 55.4#
141 0.0 12.5 18.7#

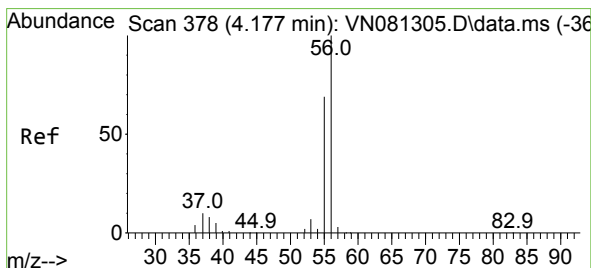
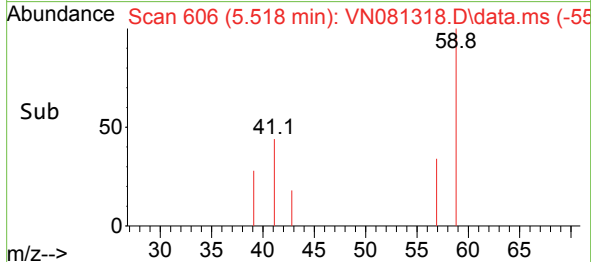
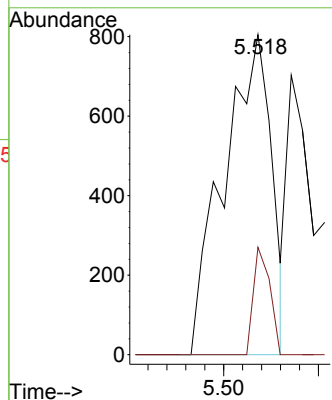
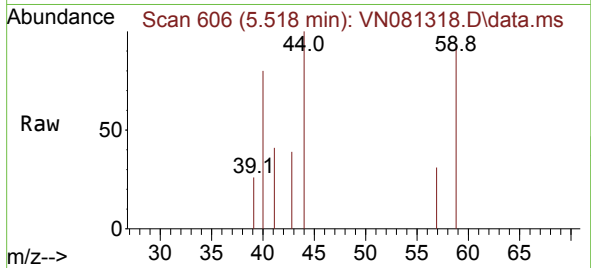




#11
Tert butyl alcohol
Concen: 1.788 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

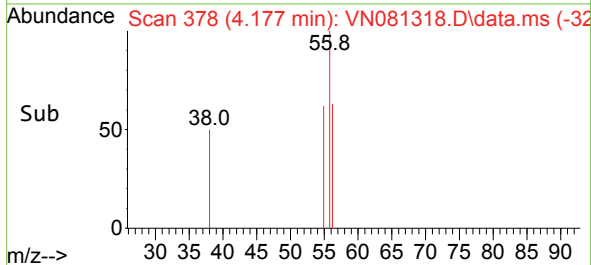
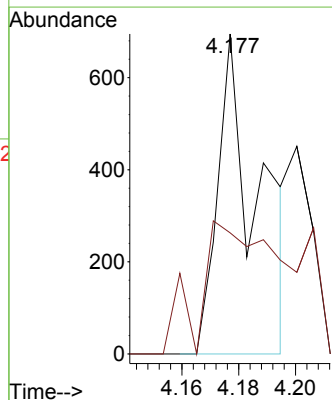
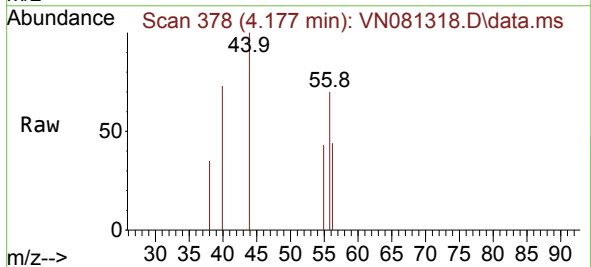
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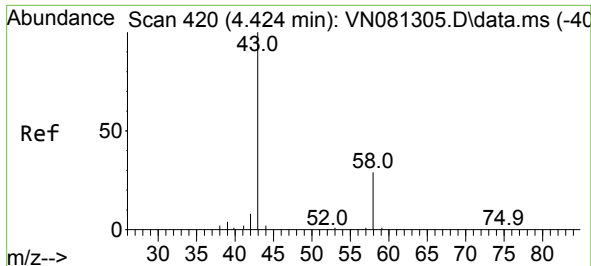
Tgt Ion: 59 Resp: 1410
Ion Ratio Lower Upper
59 100
57 11.6 8.6 12.8



#13
Acrolein
Concen: 0.728 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 56 Resp: 680
Ion Ratio Lower Upper
56 100
55 96.6 55.3 82.9#

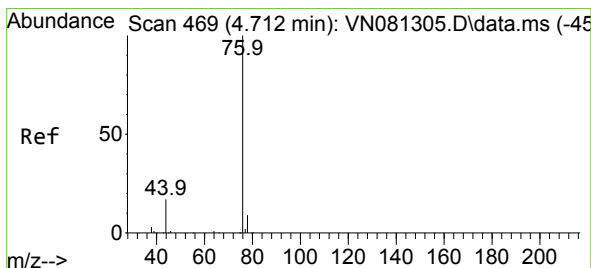
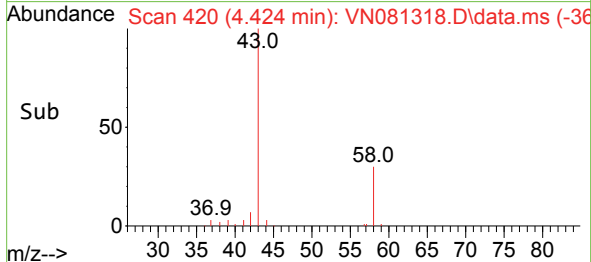
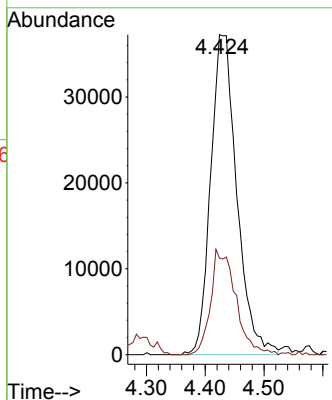
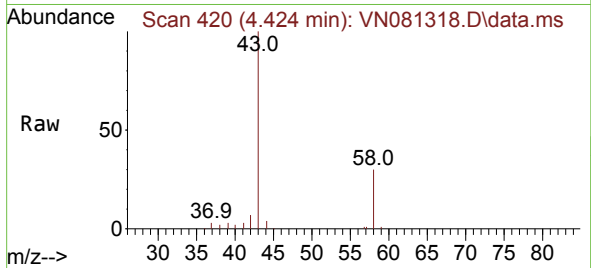




#16
Acetone
Concen: 72.156 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

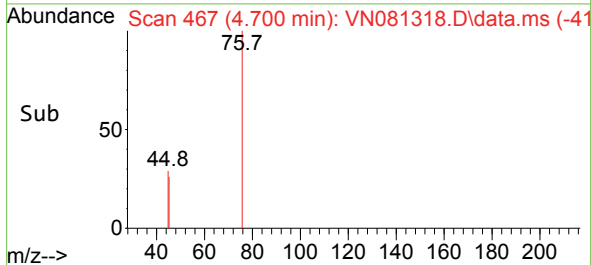
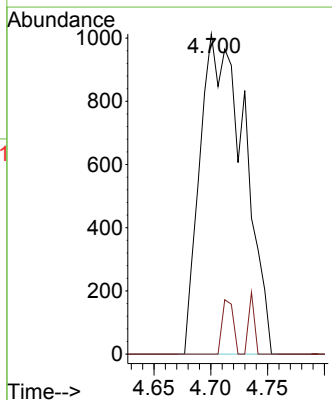
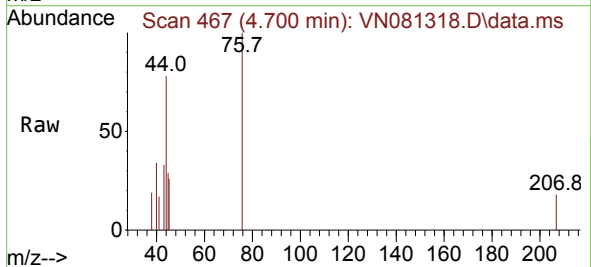
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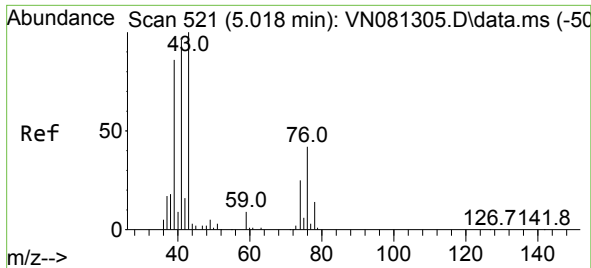
Tgt Ion: 43 Resp: 115291
Ion Ratio Lower Upper
43 100
58 30.5 24.8 37.2



#17
Carbon Disulfide
Concen: 0.265 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 76 Resp: 2748
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#

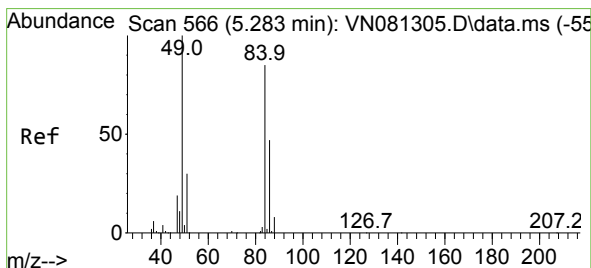
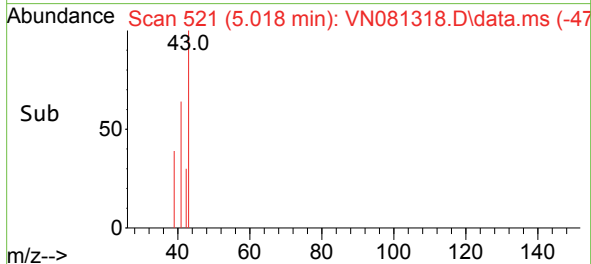
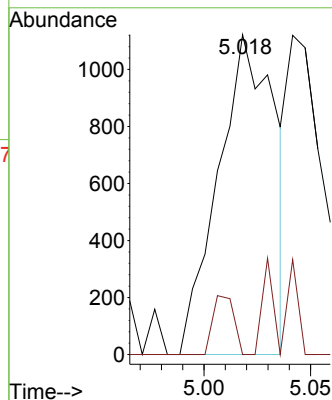
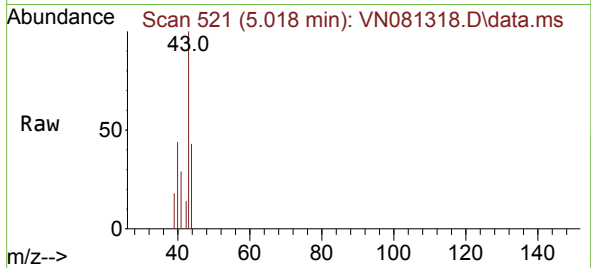




#18
Methyl Acetate
Concen: 0.452 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

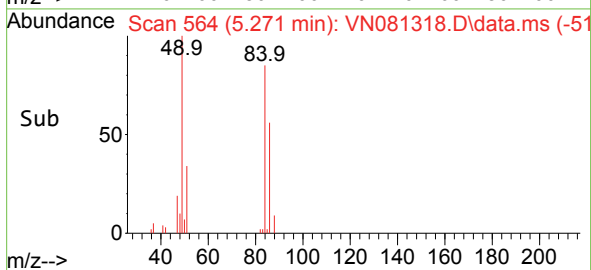
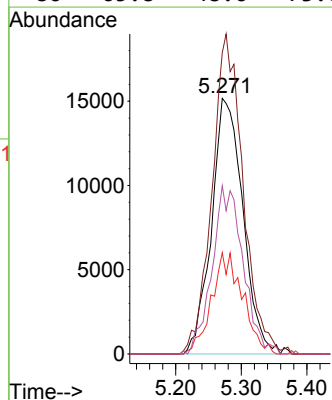
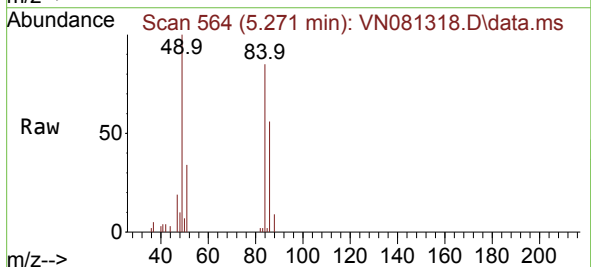
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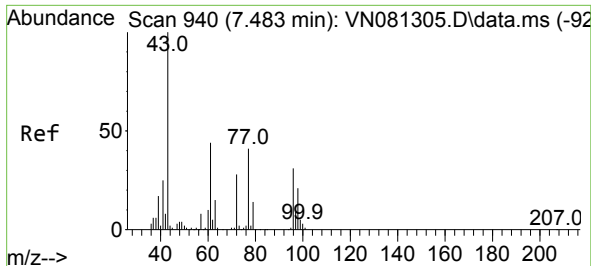
Tgt Ion: 43 Resp: 2069
Ion Ratio Lower Upper
43 100
74 11.5 17.3 25.9#



#20
Methylene Chloride
Concen: 12.147 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.012 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 84 Resp: 50358
Ion Ratio Lower Upper
84 100
49 117.8 108.1 162.1
51 39.6 32.9 49.3
86 65.8 48.6 73.0

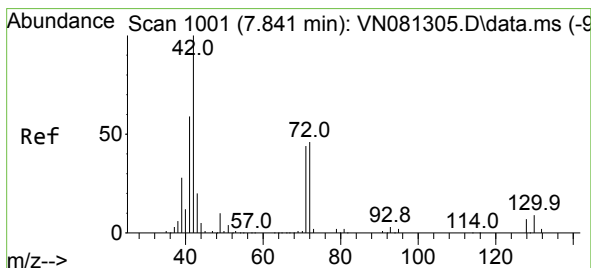
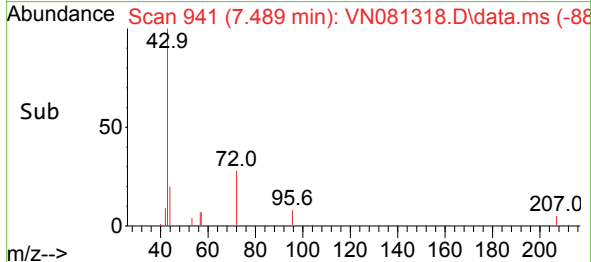
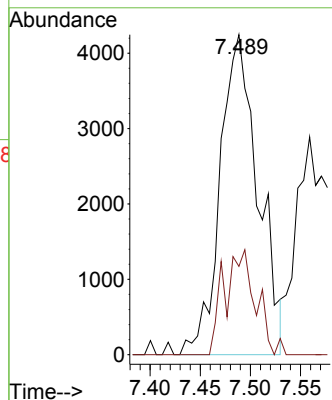
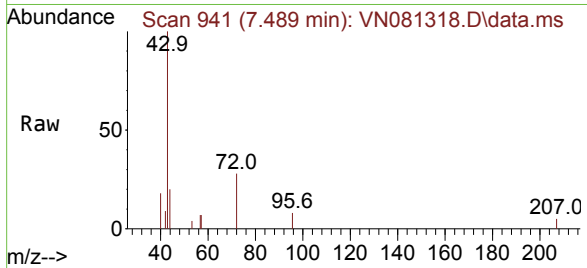




#25
2-Butanone
Concen: 4.155 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081318.D
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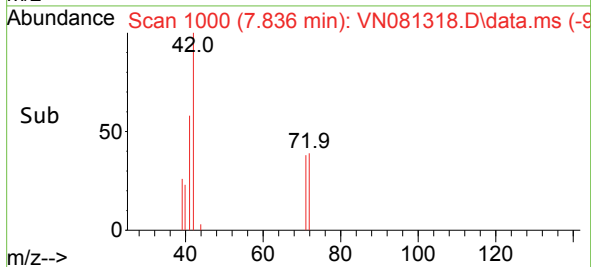
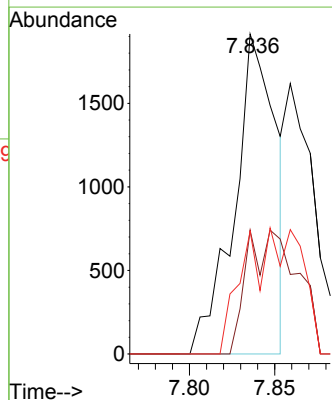
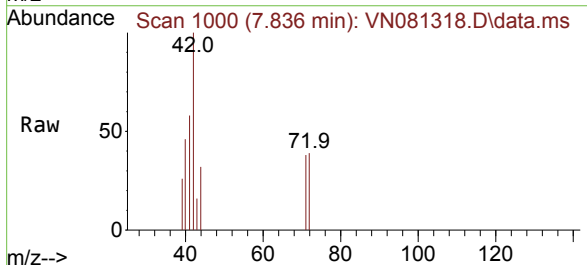
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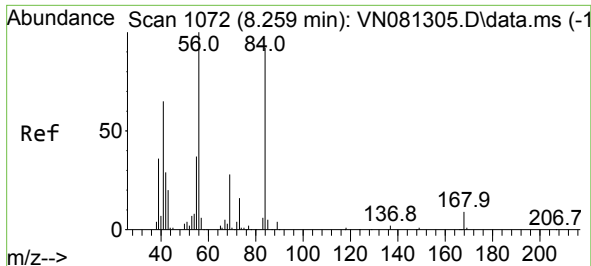
Tgt Ion: 43 Resp: 11117
Ion Ratio Lower Upper
43 100
72 27.6 19.5 29.3



#29
Tetrahydrofuran
Concen: 1.766 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 42 Resp: 3223
Ion Ratio Lower Upper
42 100
72 0.0 31.1 46.7#
71 20.8 28.3 42.5#

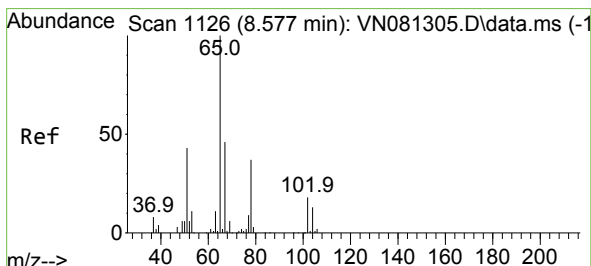
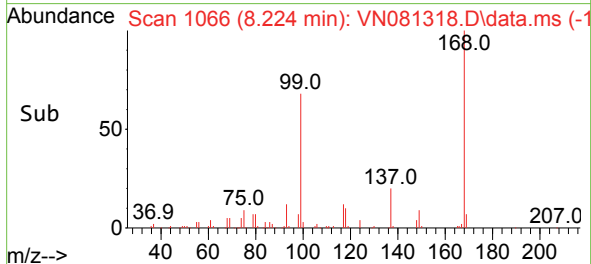
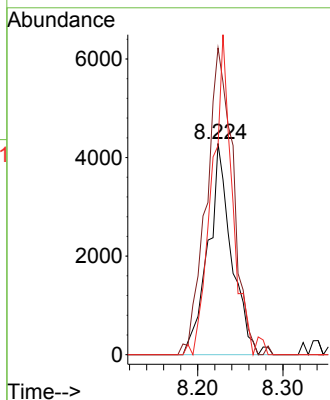
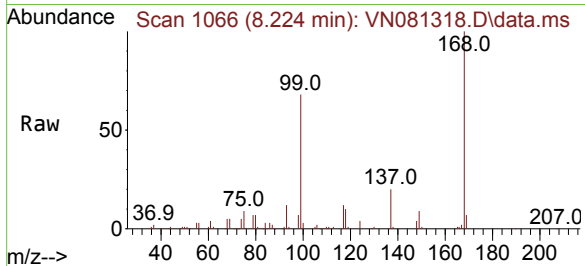




#31
Cyclohexane
Concen: 1.202 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

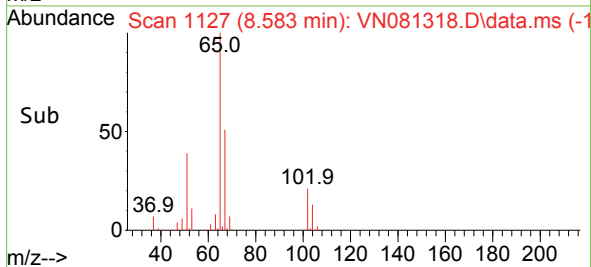
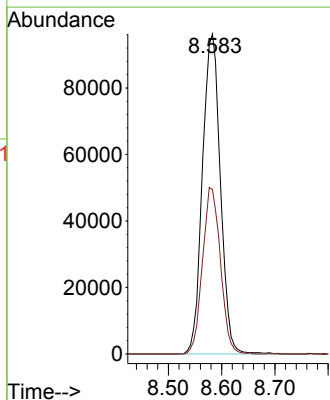
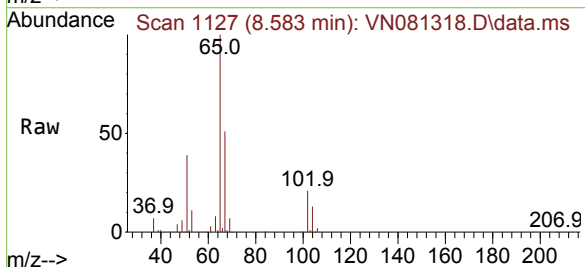
Instrument :
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ClientSampleId :
PB159453TB

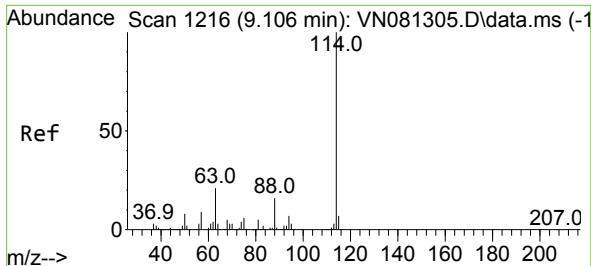
Tgt Ion: 56 Resp: 8207
Ion Ratio Lower Upper
56 100
69 145.3 20.1 30.1#
84 107.4 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 49.959 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 65 Resp: 225301
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.4

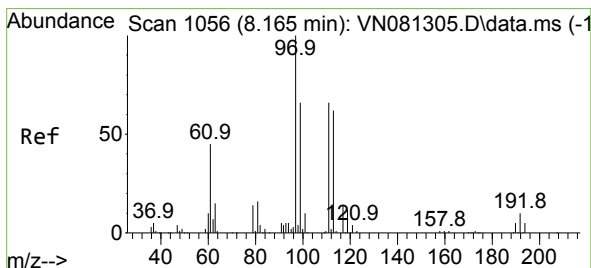
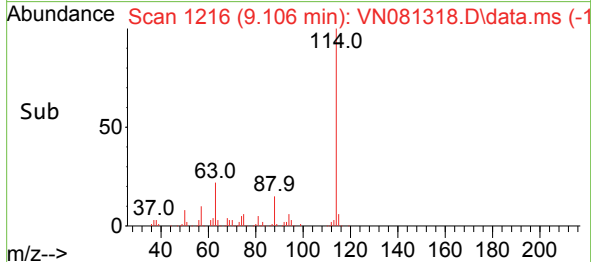
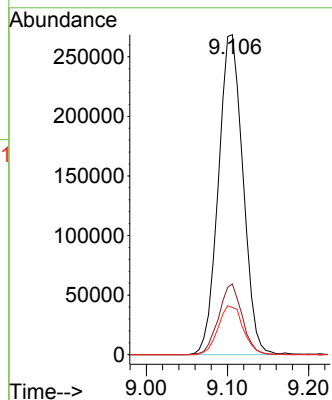
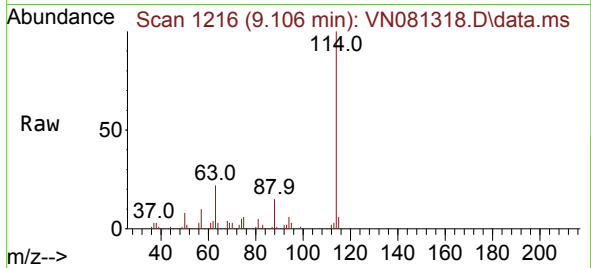




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

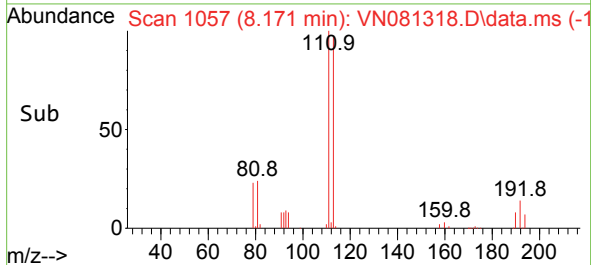
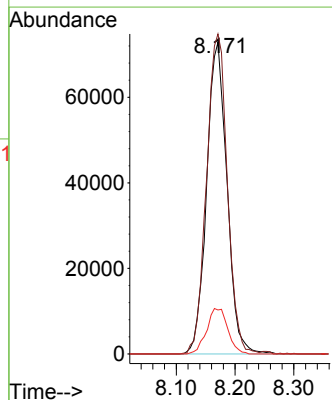
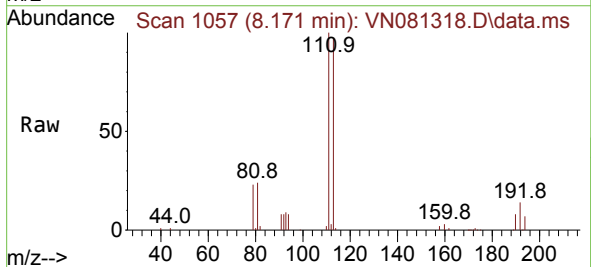
Instrument :
MSVOA_N
ClientSampleId :
PB159453TB

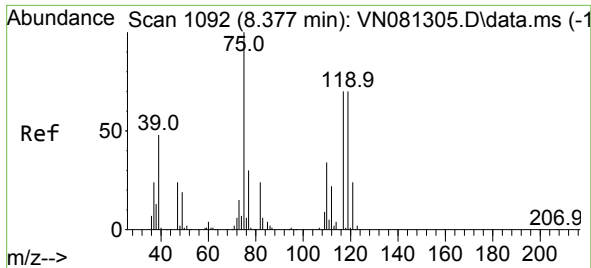
Tgt Ion:114 Resp: 565055
Ion Ratio Lower Upper
114 100
63 22.1 0.0 48.0
88 14.7 0.0 34.8



#35
Dibromofluoromethane
Concen: 50.660 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion:113 Resp: 175379
Ion Ratio Lower Upper
113 100
111 104.7 82.2 123.4
192 15.2 12.5 18.7

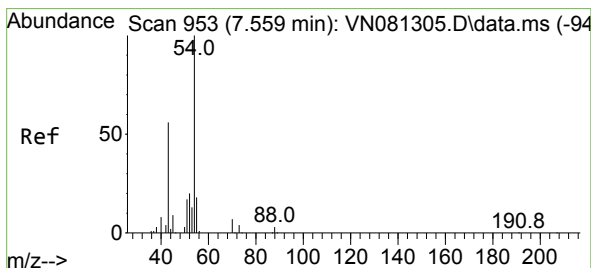
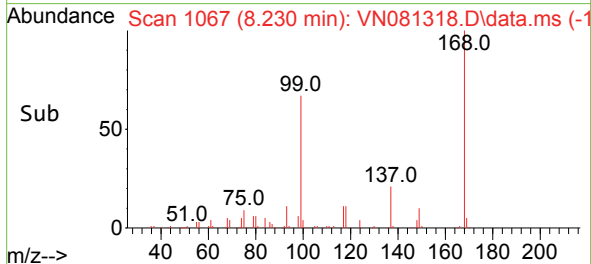
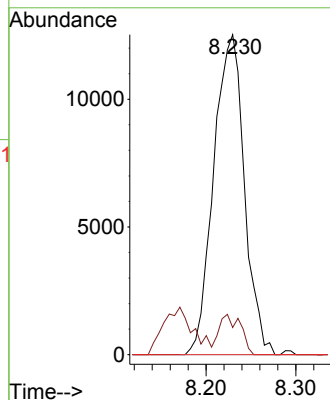
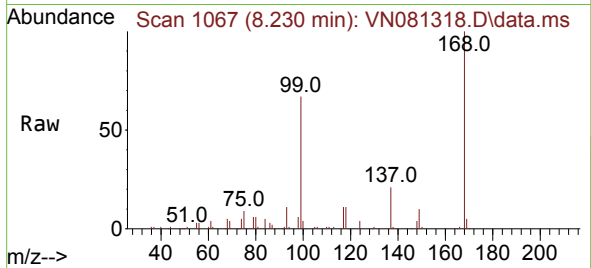




#36
1,1-Dichloropropene
Concen: 5.322 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

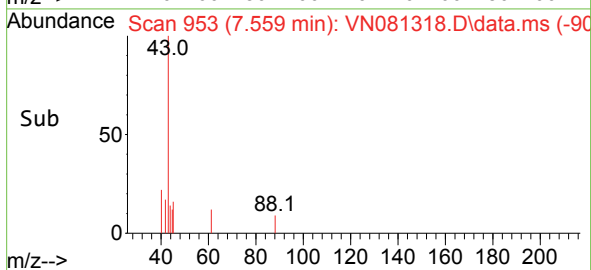
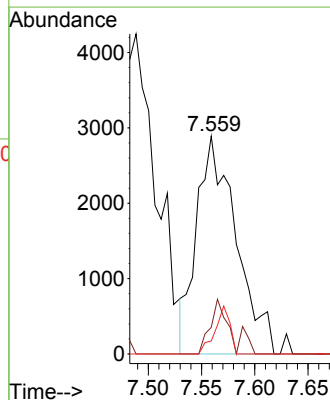
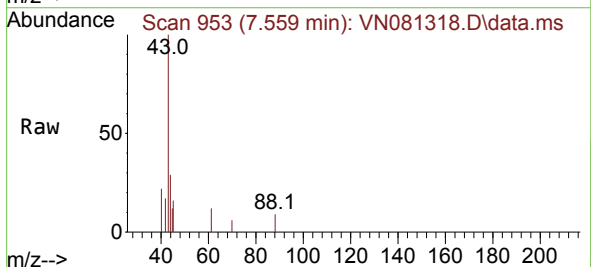
Instrument :
MSVOA_N
ClientSampleId :
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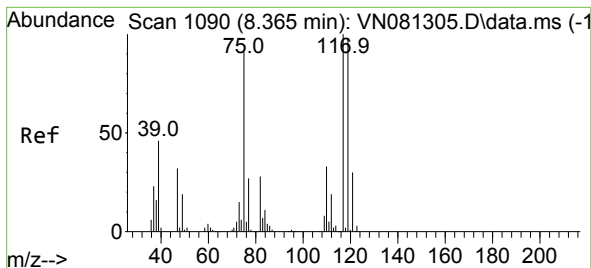
Tgt Ion: 75 Resp: 29724
Ion Ratio Lower Upper
75 100
110 8.8 16.0 48.0#
77 0.0 25.8 38.6#



#37
Ethyl Acetate
Concen: 1.361 ug/l
RT: 7.559 min Scan# 953
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 43 Resp: 7432
Ion Ratio Lower Upper
43 100
61 10.4 10.6 15.8#
70 8.3 8.0 12.0





#38

Carbon Tetrachloride

Concen: 6.259 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN081318.D

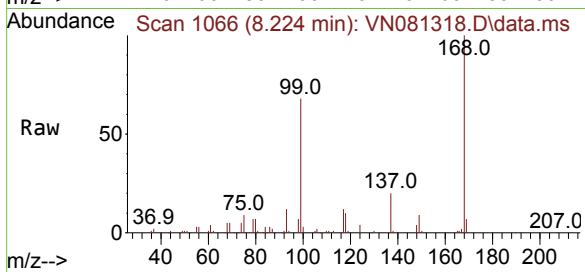
Acq: 06 Mar 2024 11:49

Instrument :

MSVOA_N

ClientSampleId :

PB159453TB



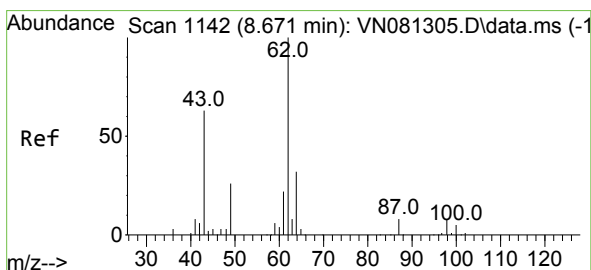
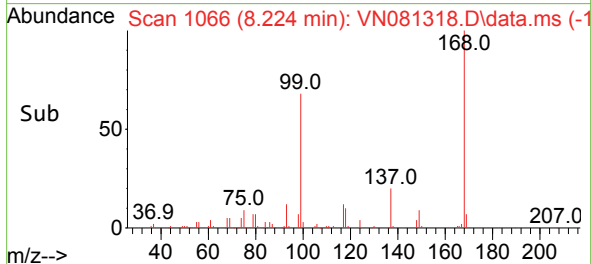
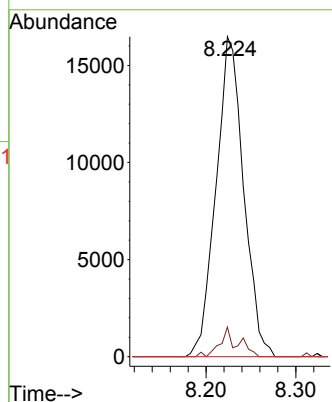
Tgt Ion:117 Resp: 35185

Ion Ratio Lower Upper

117 100

119 9.3 73.4 110.2#

121 0.0 24.4 36.6#



#42

1,2-Dichloroethane

Concen: 0.297 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN081318.D

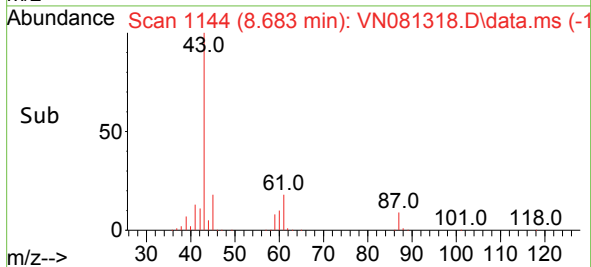
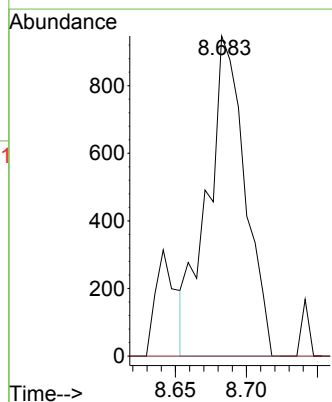
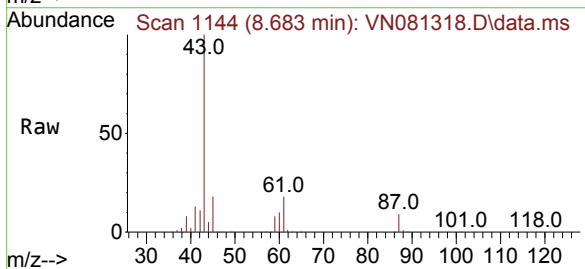
Acq: 06 Mar 2024 11:49

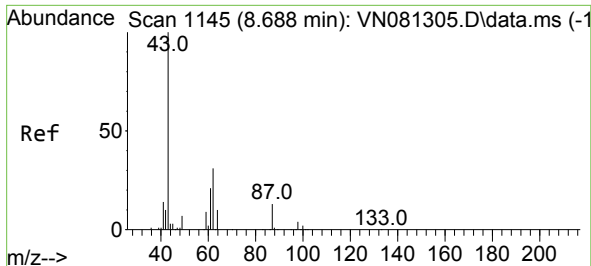
Tgt Ion: 62 Resp: 1744

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0

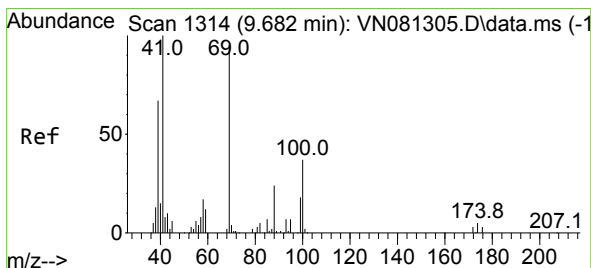
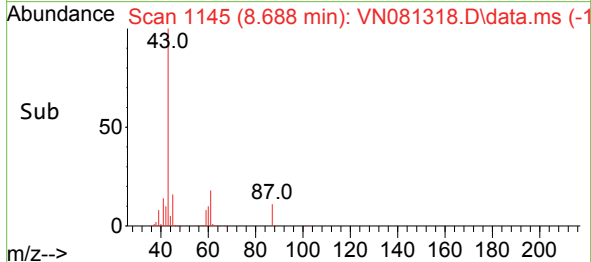
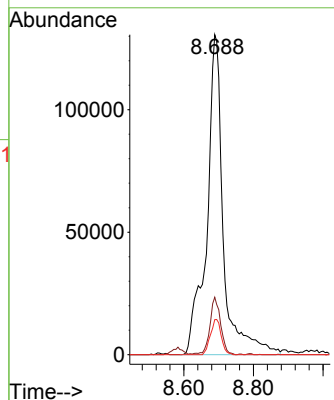
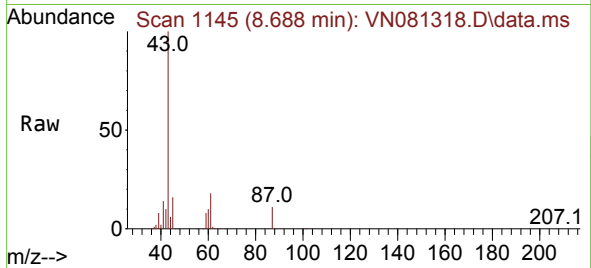




#43
Isopropyl Acetate
Concen: 45.158 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

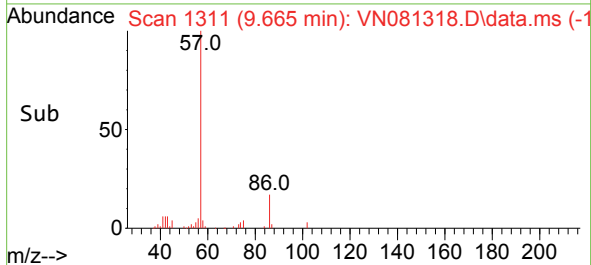
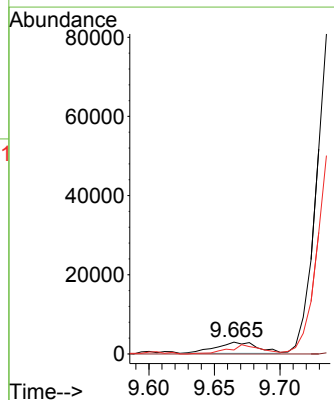
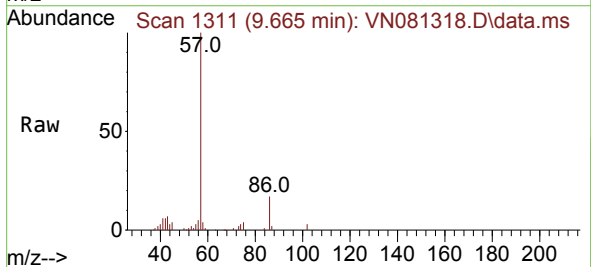
Instrument :
MSVOA_N
ClientSampleId :
PB159453TB

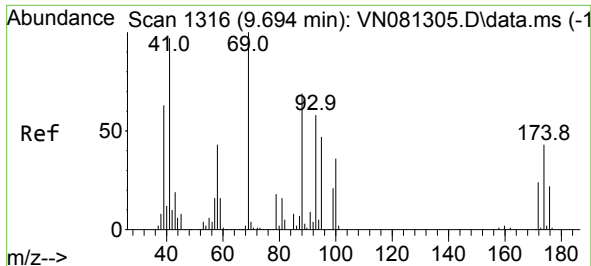
Tgt Ion: 43 Resp: 431526
Ion Ratio Lower Upper
43 100
61 11.6 19.9 29.9#
87 7.2 9.0 13.6#



#48
Methyl methacrylate
Concen: 1.483 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 41 Resp: 6264
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 64.3 47.6 71.4





#49

1,4-Dioxane

Concen: 1.300 ug/l

RT: 9.735 min Scan# 1316

Delta R.T. 0.041 min

Lab File: VN081318.D

Acq: 06 Mar 2024 11:49

Instrument :

MSVOA_N

ClientSampleId :

PB159453TB

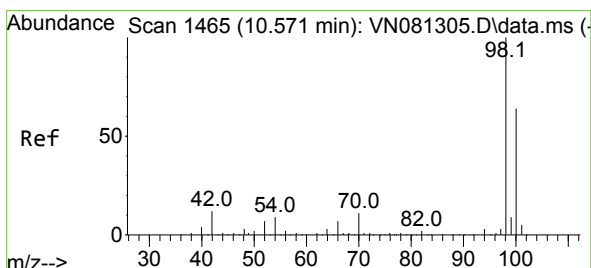
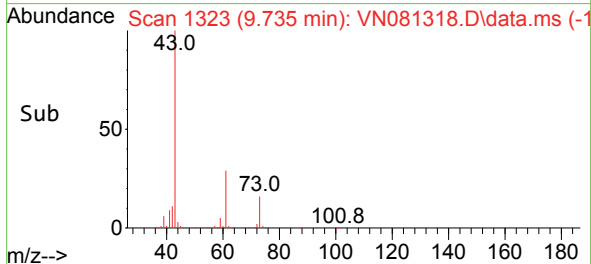
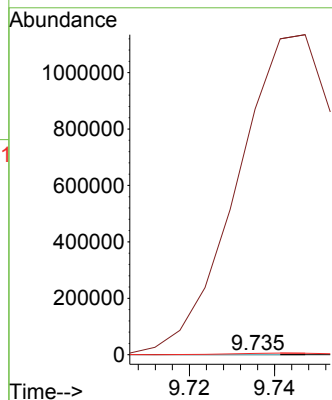
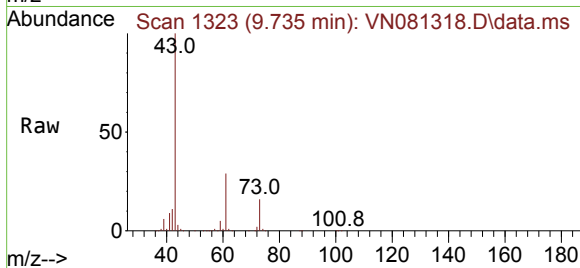
Tgt Ion: 88 Resp: 121

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 53.061 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN081318.D

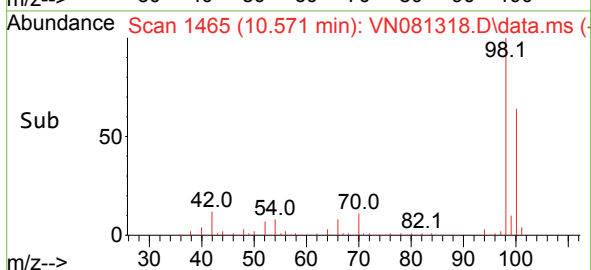
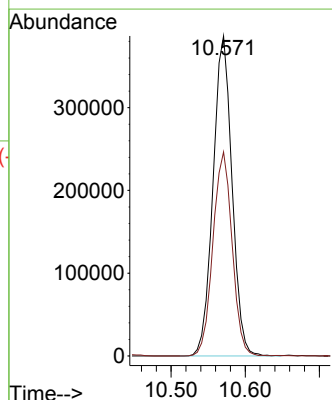
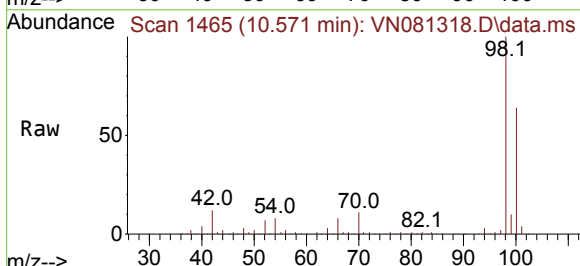
Acq: 06 Mar 2024 11:49

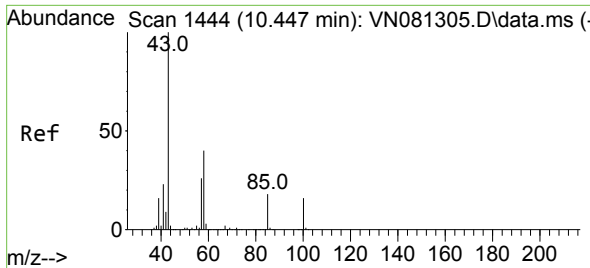
Tgt Ion: 98 Resp: 686686

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0

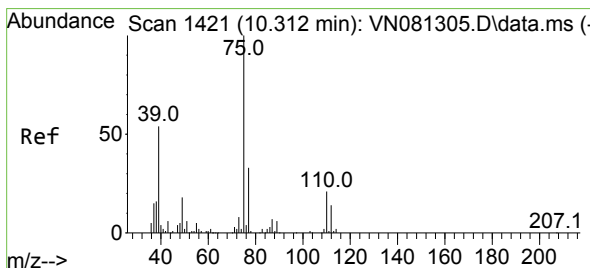
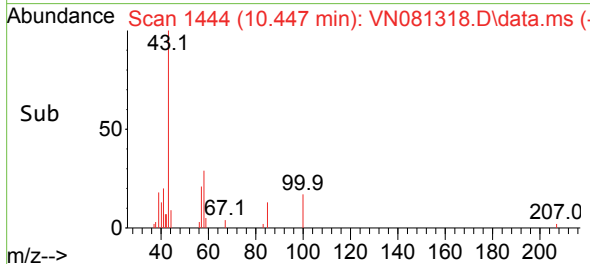
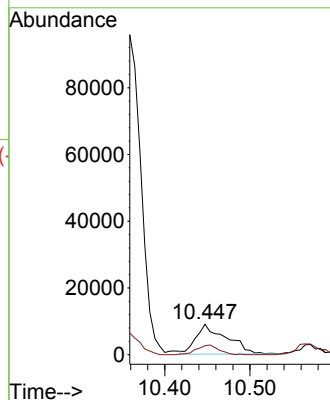
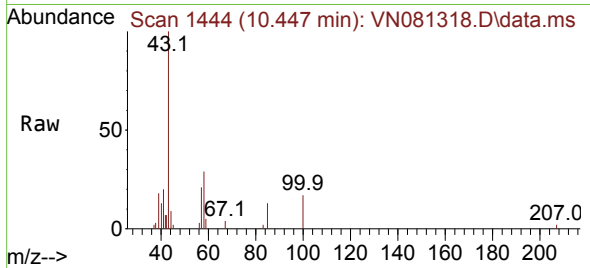




#51
4-Methyl-2-Pentanone
Concen: 4.025 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

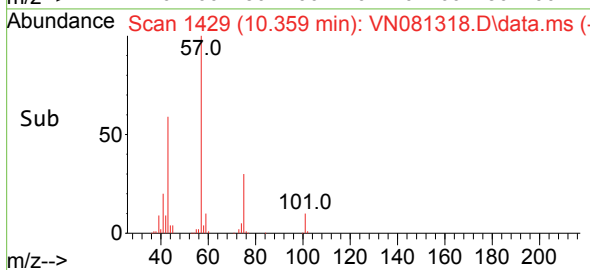
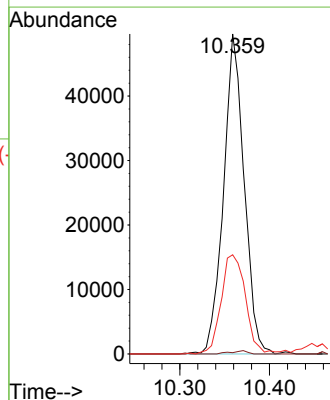
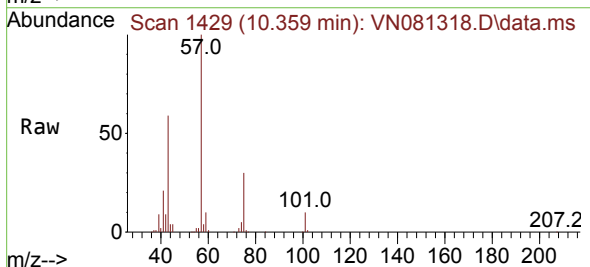
Instrument :
MSVOA_N
ClientSampleId :
PB159453TB

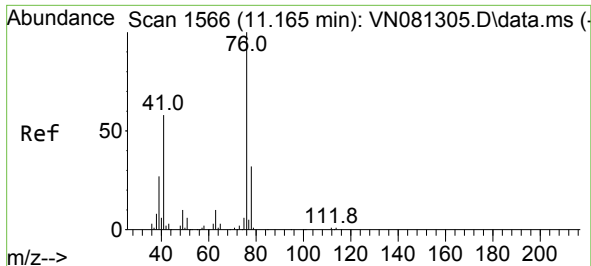
Tgt Ion: 43 Resp: 22333
Ion Ratio Lower Upper
43 100
58 23.5 29.4 44.0#



#54
cis-1,3-Dichloropropene
Concen: 11.849 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 75 Resp: 79307
Ion Ratio Lower Upper
75 100
77 0.4 23.3 34.9#
39 31.0 44.6 66.8#





#57

1,3-Dichloropropane

Concen: 1.455 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN081318.D

Acq: 06 Mar 2024 11:49

Instrument :

MSVOA_N

ClientSampleId :

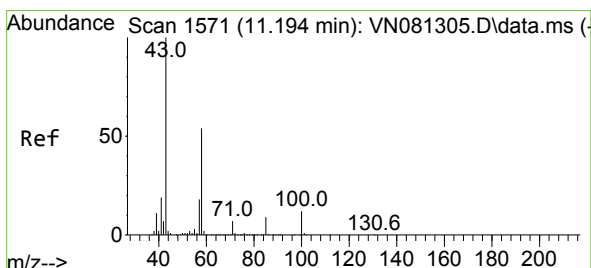
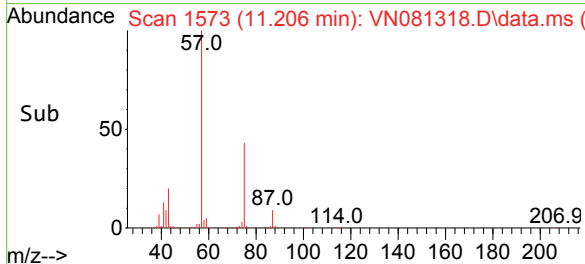
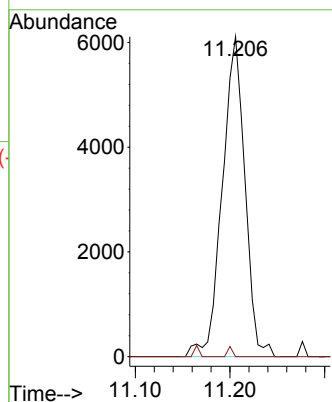
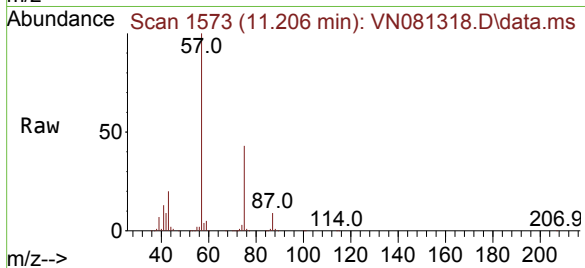
PB159453TB

Tgt Ion: 76 Resp: 10141

Ion Ratio Lower Upper

76 100

78 0.7 25.5 38.3#



#59

2-Hexanone

Concen: 44.156 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN081318.D

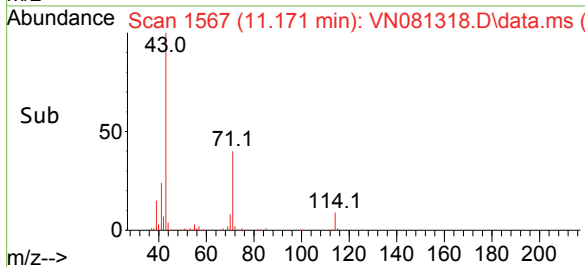
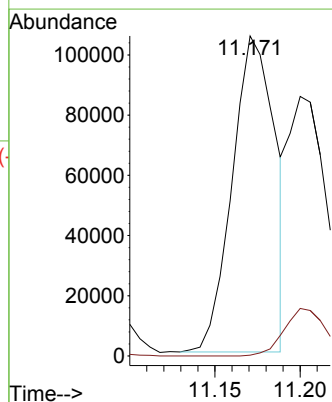
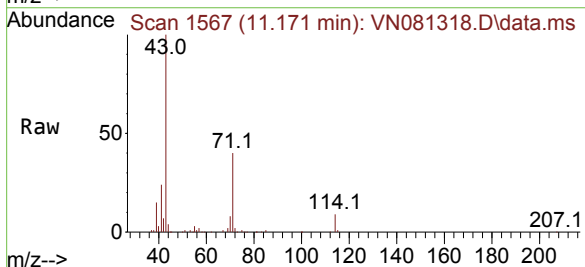
Acq: 06 Mar 2024 11:49

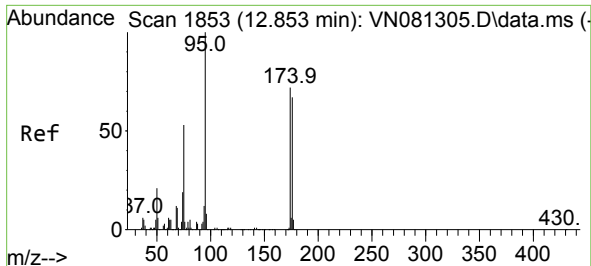
Tgt Ion: 43 Resp: 183163

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

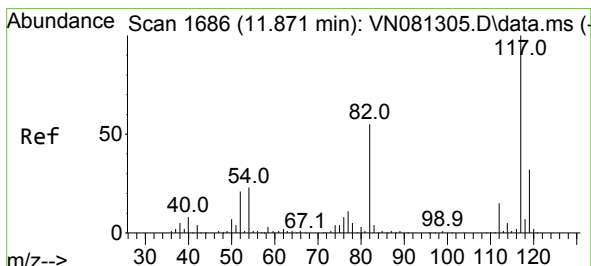
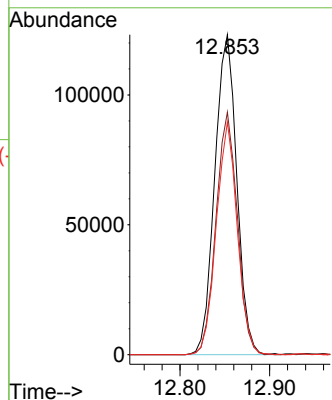
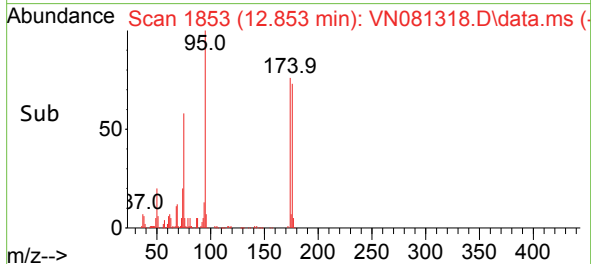
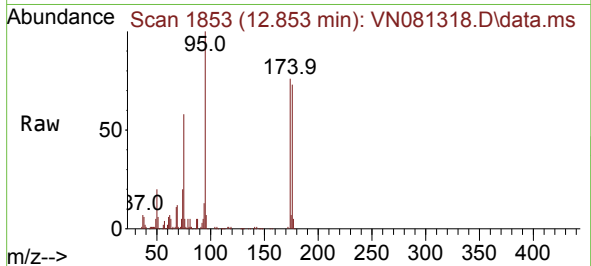




#62
4-Bromofluorobenzene
Concen: 45.825 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

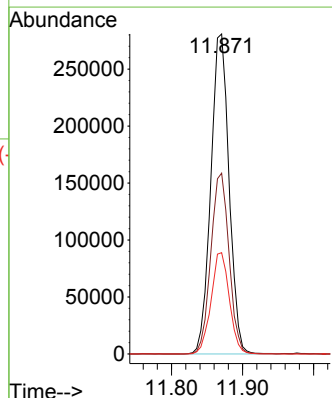
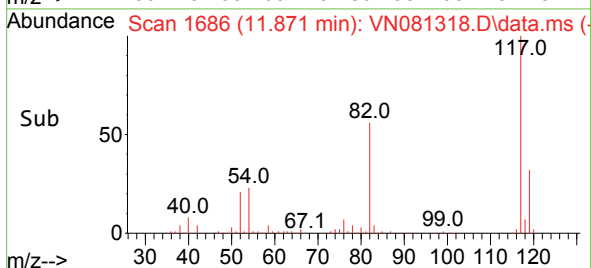
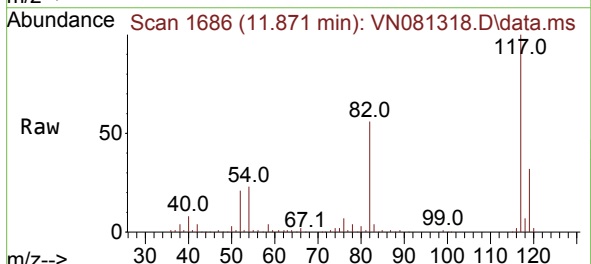
Instrument :
MSVOA_N
ClientSampleId :
PB159453TB

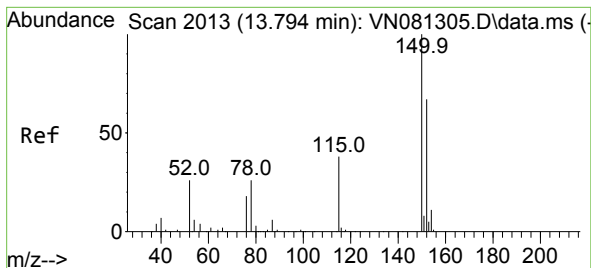
Tgt Ion: 95 Resp: 209603
Ion Ratio Lower Upper
95 100
174 73.6 0.0 120.4
176 69.4 0.0 121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

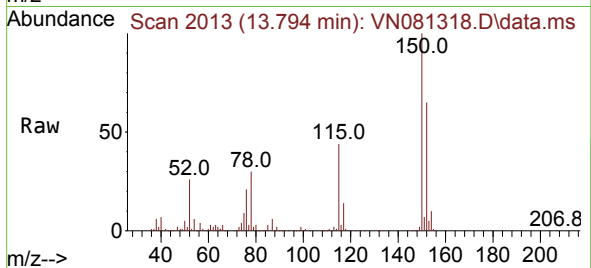
Tgt Ion: 117 Resp: 500686
Ion Ratio Lower Upper
117 100
82 56.5 52.7 79.1
119 31.6 25.3 37.9



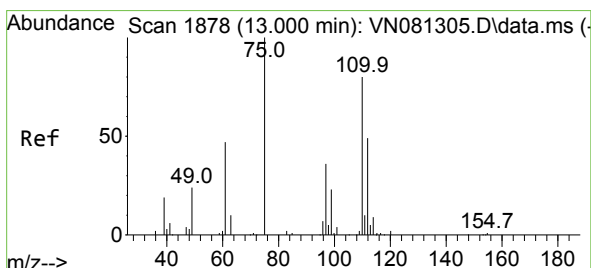
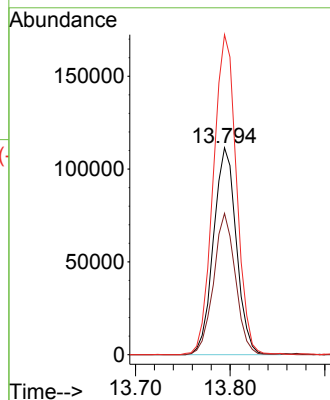
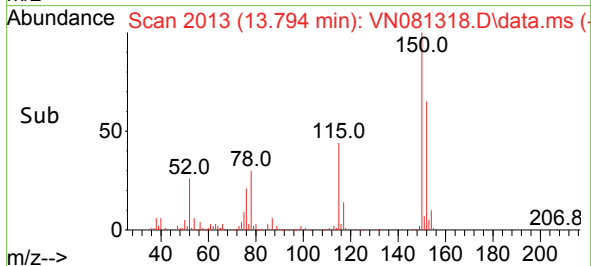


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Instrument :
MSVOA_N
ClientSampleId :
PB159453TB

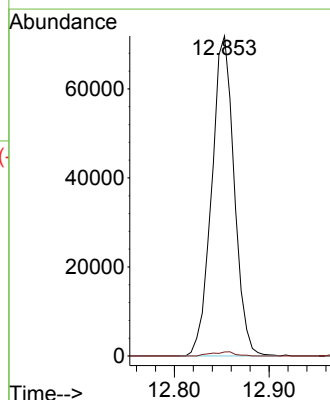
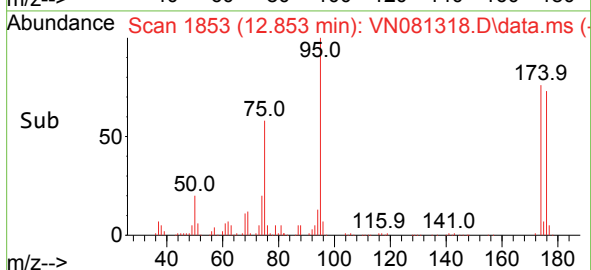
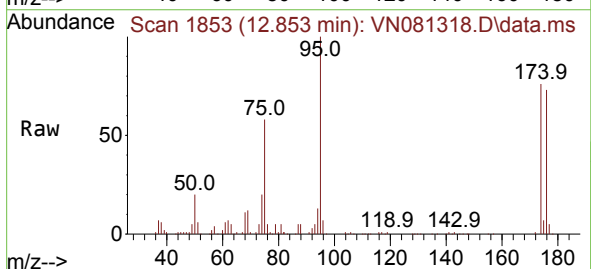


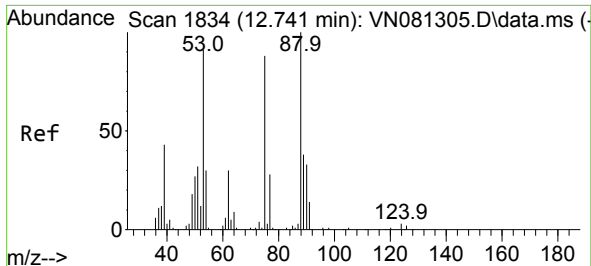
Tgt Ion:152 Resp: 187016
Ion Ratio Lower Upper
152 100
115 65.3 32.3 96.8
150 156.9 0.0 339.8



#76
1,2,3-Trichloropropane
Concen: 26.902 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion: 75 Resp: 118834
Ion Ratio Lower Upper
75 100
77 1.3 91.0 272.8#

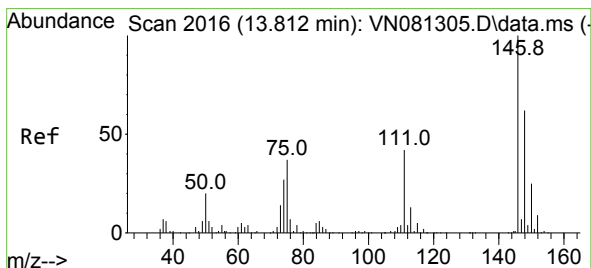
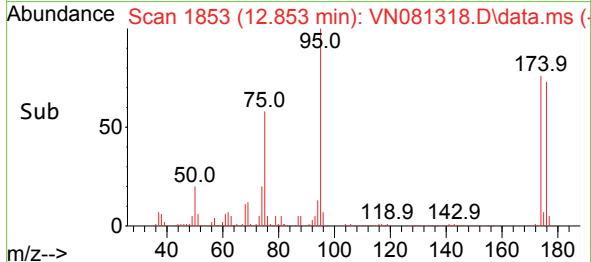
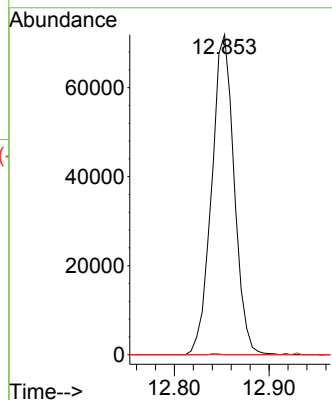
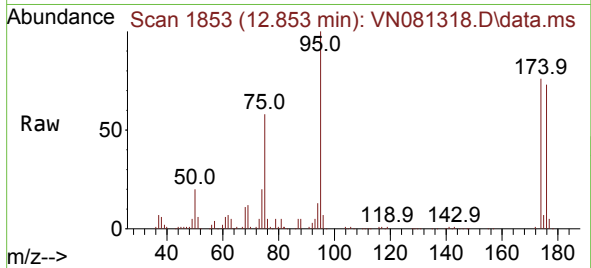




#81
trans-1,4-Dichloro-2-butene
Concen: 75.079 ug/l
RT: 12.853 min Scan# 118834
Delta R.T. 0.112 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

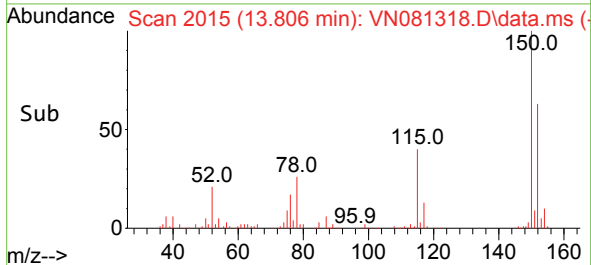
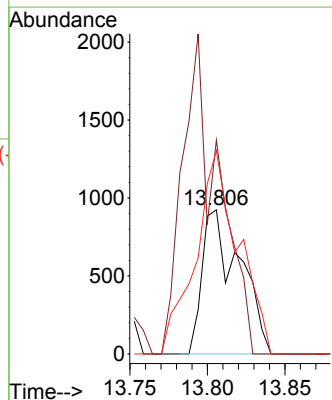
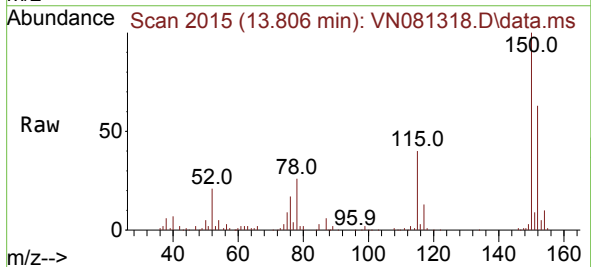
Instrument :
MSVOA_N
ClientSampleId :
PB159453TB

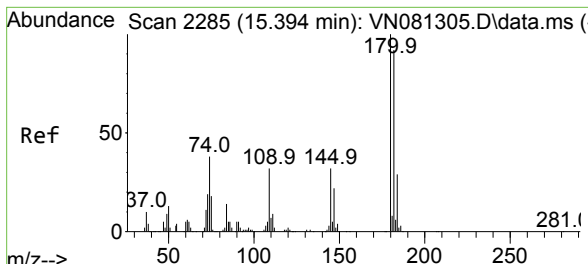
Tgt Ion: 75 Resp: 118834
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 0.1 33.4 50.0#



#88
1,4-Dichlorobenzene
Concen: 0.230 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN081318.D
Acq: 06 Mar 2024 11:49

Tgt Ion:146 Resp: 1552
Ion Ratio Lower Upper
146 100
111 213.3 22.6 67.7#
148 161.6 31.9 95.5#

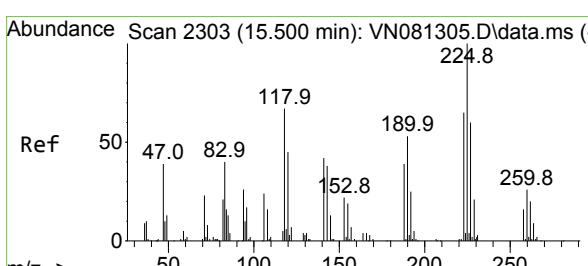
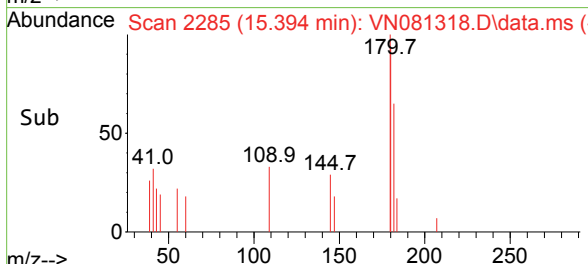
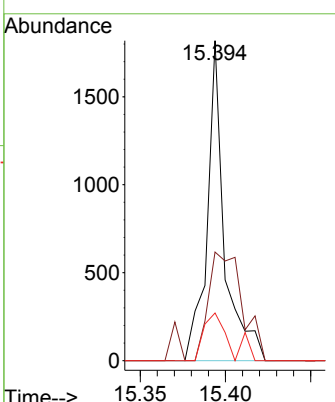
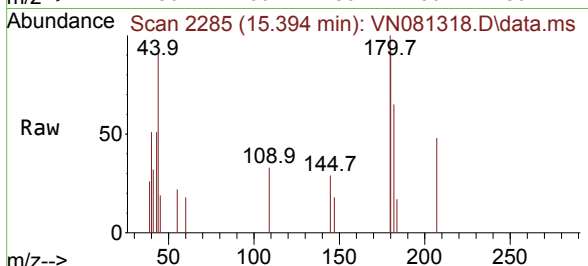




#93
 1,2,4-Trichlorobenzene
 Concen: 0.368 ug/l
 RT: 15.394 min Scan# 2285
 Delta R.T. 0.000 min
 Lab File: VN081318.D
 Acq: 06 Mar 2024 11:49

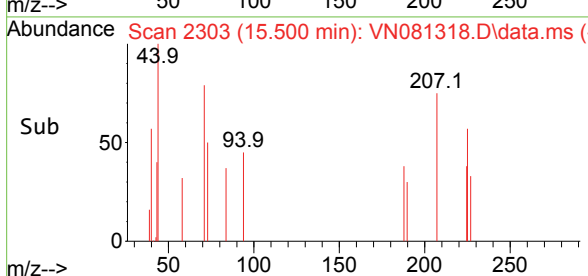
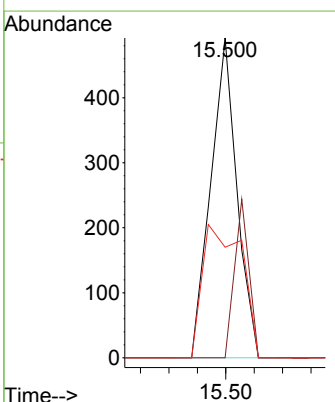
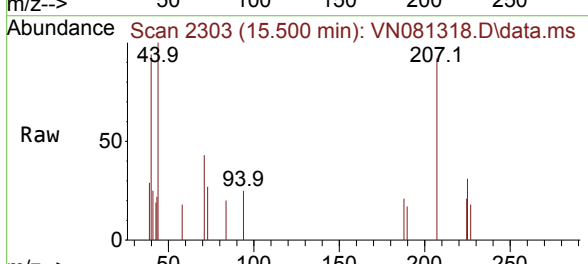
Instrument :
 MSVOA_N
 ClientSampleId :
 PB159453TB

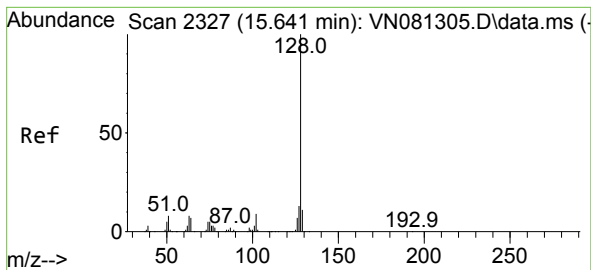
Tgt Ion:	180	Resp:	1277
Ion Ratio	Lower	Upper	
180	100		
182	67.0	46.6	139.7
145	22.1	16.8	50.3



#94
 Hexachlorobutadiene
 Concen: 0.219 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. 0.000 min
 Lab File: VN081318.D
 Acq: 06 Mar 2024 11:49

Tgt Ion:	225	Resp:	314
Ion Ratio	Lower	Upper	
225	100		
223	27.4	33.3	99.8#
227	62.4	33.1	99.2





#95

Naphthalene

Concen: 0.256 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN081318.D

Acq: 06 Mar 2024 11:49

Instrument :

MSVOA_N

ClientSampleId :

PB159453TB

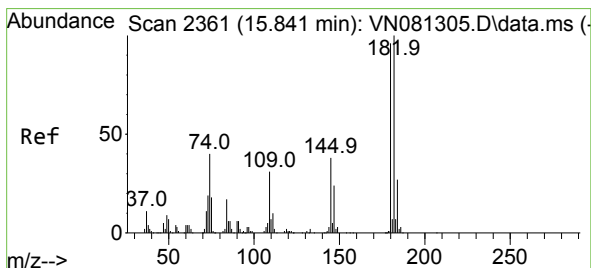
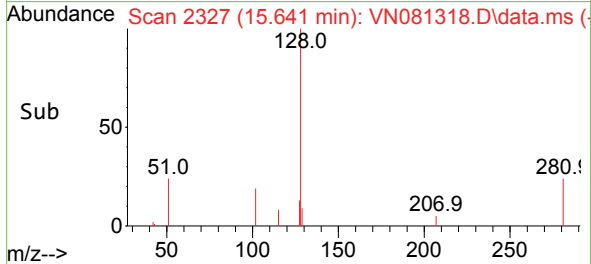
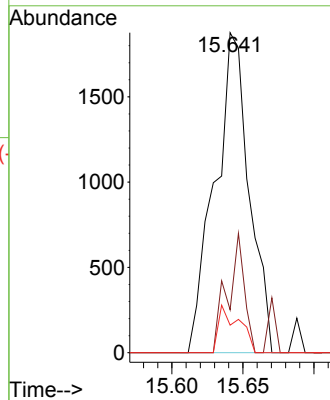
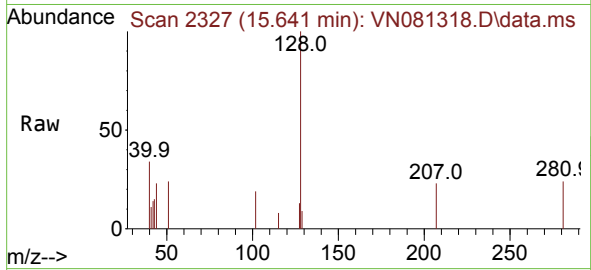
Tgt Ion:128 Resp: 3153

Ion Ratio Lower Upper

128 100

127 18.3 10.0 15.0#

129 8.8 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 0.326 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN081318.D

Acq: 06 Mar 2024 11:49

Tgt Ion:180 Resp: 1147

Ion Ratio Lower Upper

180 100

182 79.2 46.5 139.3

145 19.7 17.8 53.4

