

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078321.D
 Acq On : 21 Jun 2023 14:46
 Operator : JC\MD
 Sample : 03359-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-062023

Quant Time: Jun 22 04:49:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

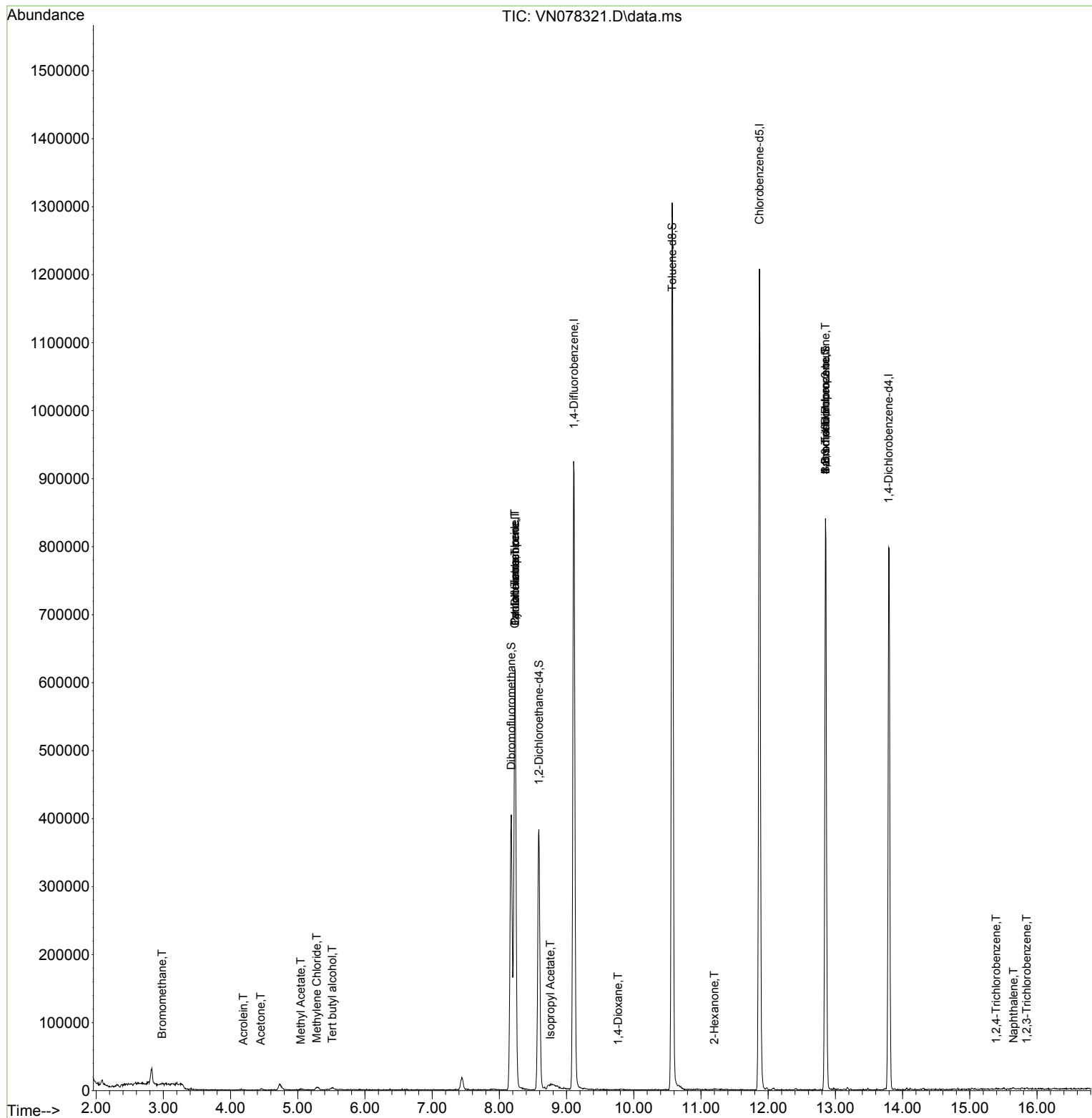
Internal Standards						
1) Pentafluorobenzene	8.235	168	445510	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	822633	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	727439	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	219860	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	314674	52.975	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.960%			
35) Dibromofluoromethane	8.177	113	290748	55.898	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.800%			
50) Toluene-d8	10.571	98	951145	47.434	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.860%			
62) 4-Bromofluorobenzene	12.853	95	298868	47.944	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.880%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1890	Below Cal		99
5) Bromomethane	2.983	94	1531	0.307 ug/l #		42
11) Tert butyl alcohol	5.512	59	1848	2.253 ug/l #		72
13) Acrolein	4.189	56	211	0.233 ug/l #		13
16) Acetone	4.447	43	965	0.564 ug/l		94
18) Methyl Acetate	5.047	43	1890	0.240 ug/l #		81
20) Methylene Chloride	5.283	84	2324	0.411 ug/l #		71
31) Cyclohexane	8.235	56	10271	1.348 ug/l #		1
36) 1,1-Dichloropropene	8.235	75	37825	5.070 ug/l #		47
38) Carbon Tetrachloride	8.230	117	50247	6.378 ug/l #		15
43) Isopropyl Acetate	8.759	43	9475	0.850 ug/l #		49
49) 1,4-Dioxane	9.765	88	58	0.590 ug/l #		30
59) 2-Hexanone	11.200	43	1377	0.337 ug/l #		51
71) Bromoform	12.853	173	3058	0.827 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.947	83	157	Below Cal #		26
76) 1,2,3-Trichloropropane	12.853	75	163812	31.517 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	163812	96.830 ug/l #		15
93) 1,2,4-Trichlorobenzene	15.394	180	653	0.230 ug/l #		66
94) Hexachlorobutadiene	15.500	225	560	Below Cal #		60
95) Naphthalene	15.653	128	2572	0.269 ug/l #		73
96) 1,2,3-Trichlorobenzene	15.847	180	723	0.227 ug/l #		71

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078321.D

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Instrument :

MSVOA_N

ClientSampleId :

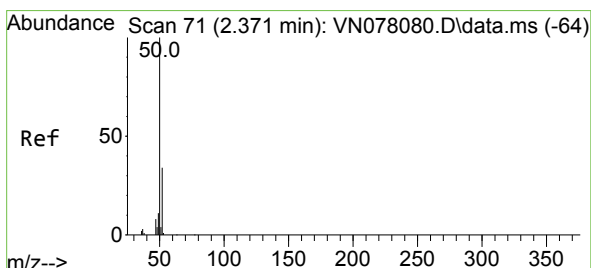
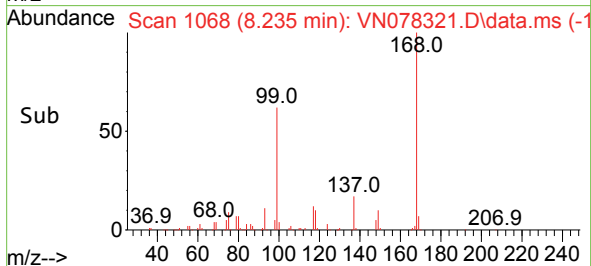
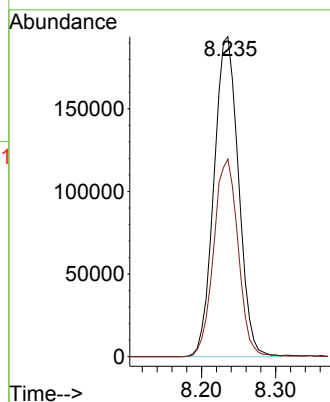
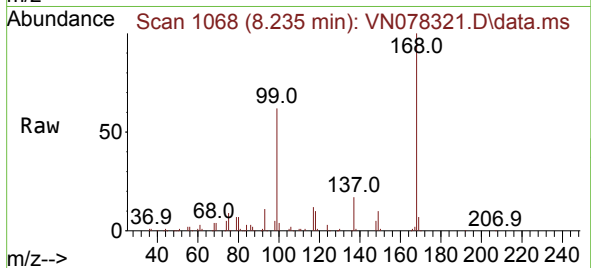
TB-01-062023

Tgt Ion:168 Resp: 445510

Ion Ratio Lower Upper

168 100

99 61.7 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078321.D

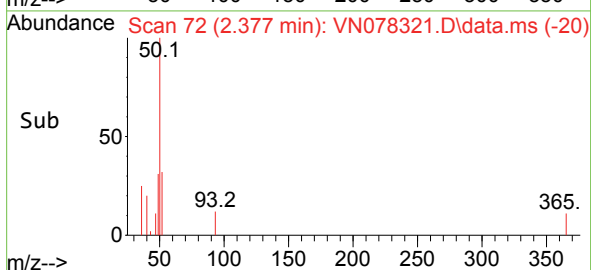
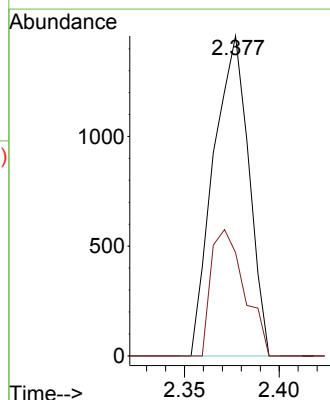
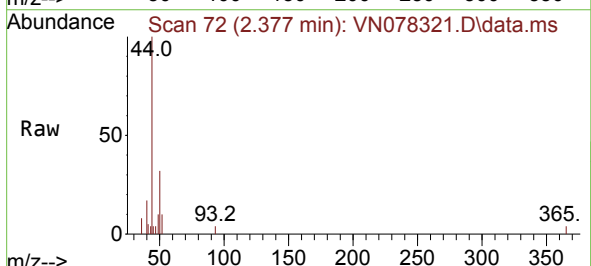
Acq: 21 Jun 2023 14:46

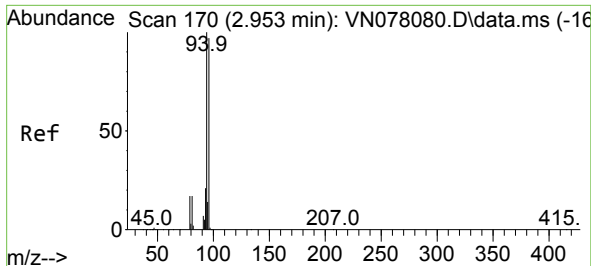
Tgt Ion: 50 Resp: 1890

Ion Ratio Lower Upper

50 100

52 32.3 26.5 39.7

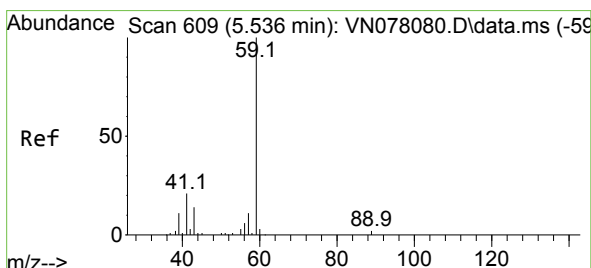
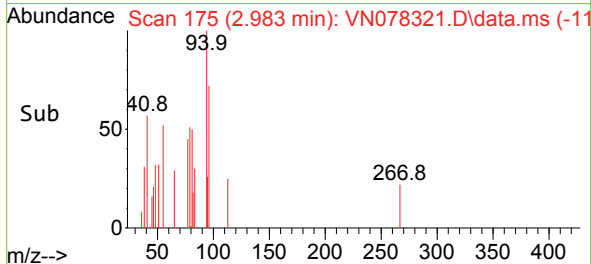
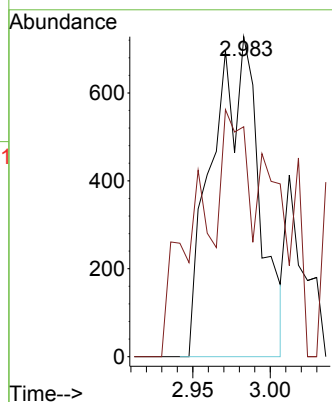
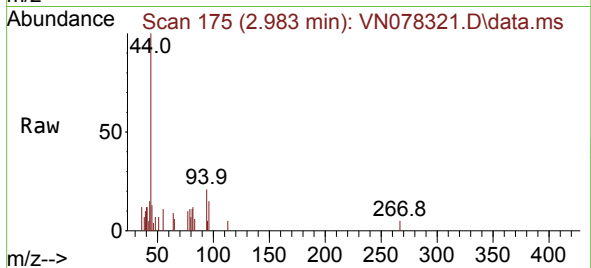




#5
Bromomethane
Concen: 0.307 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

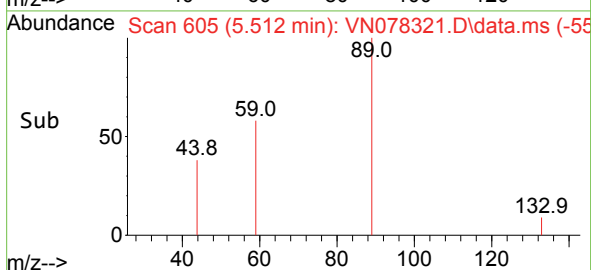
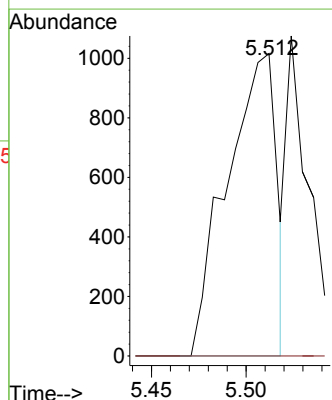
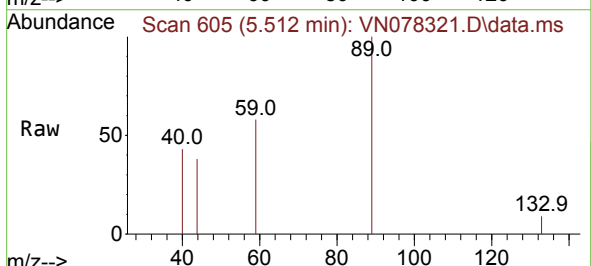
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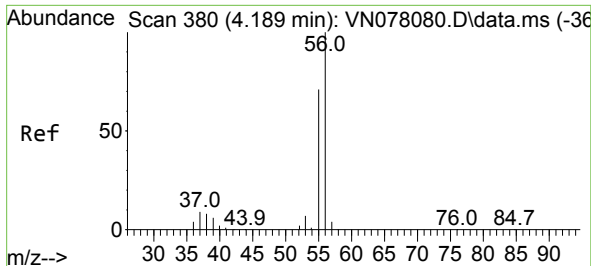
Tgt Ion: 94 Resp: 1531
Ion Ratio Lower Upper
94 100
96 36.4 73.1 109.7#



#11
Tert butyl alcohol
Concen: 2.253 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.024 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 59 Resp: 1848
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

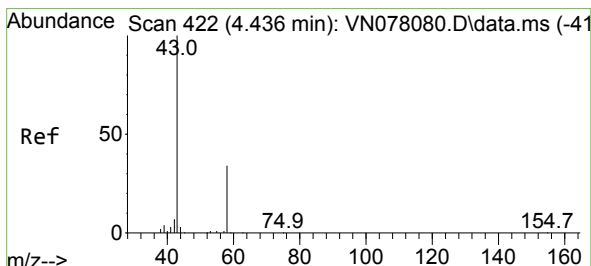
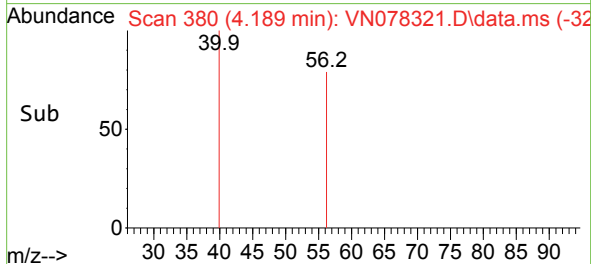
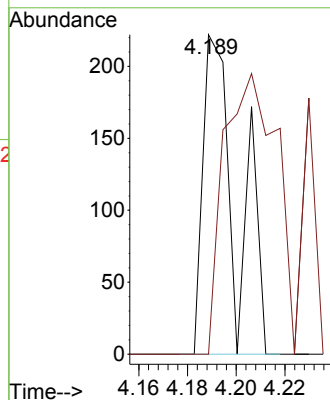
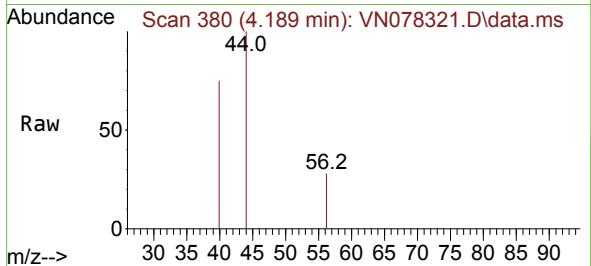




#13
Acrolein
Concen: 0.233 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

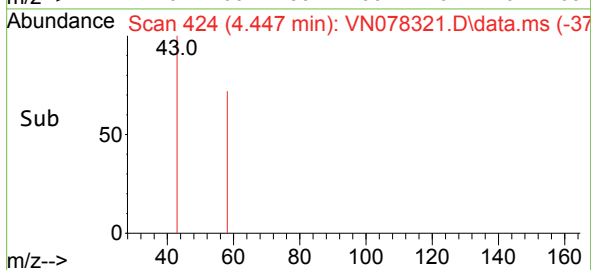
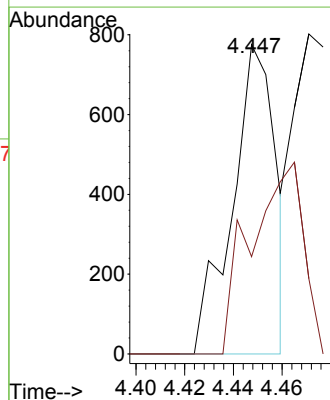
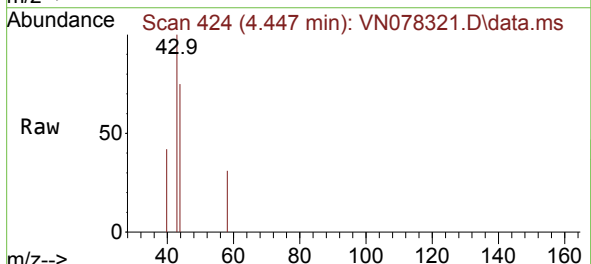
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062023

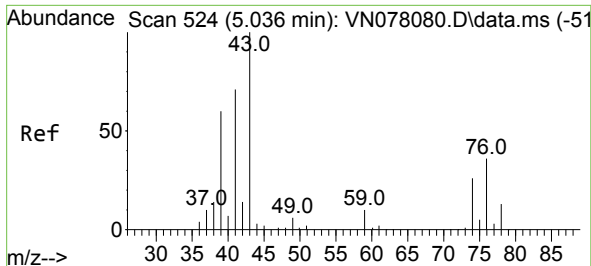
Tgt Ion: 56 Resp: 211
Ion Ratio Lower Upper
56 100
55 138.4 54.5 81.7#



#16
Acetone
Concen: 0.564 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 43 Resp: 965
Ion Ratio Lower Upper
43 100
58 31.5 28.0 42.0

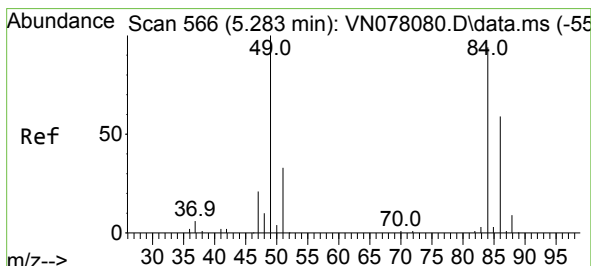
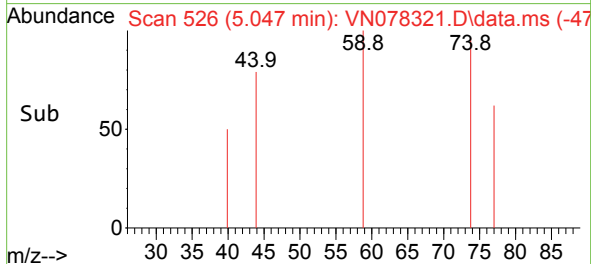
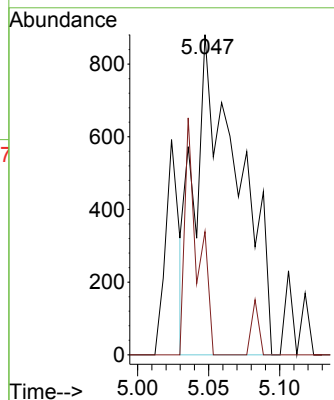
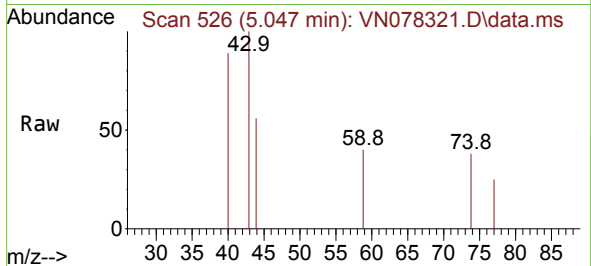




#18
Methyl Acetate
Concen: 0.240 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

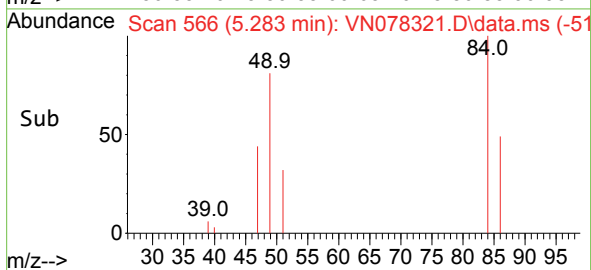
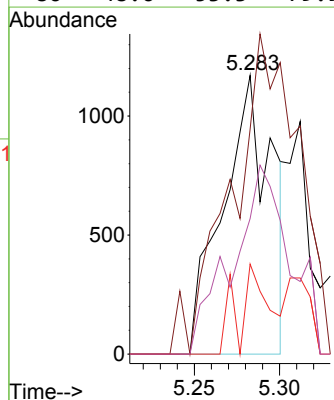
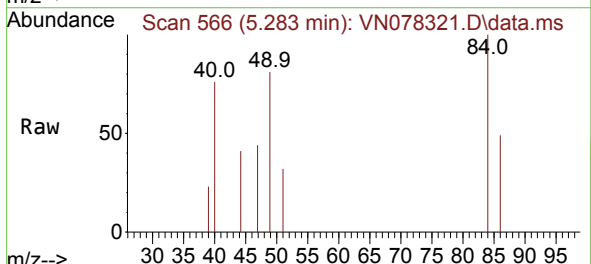
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062023

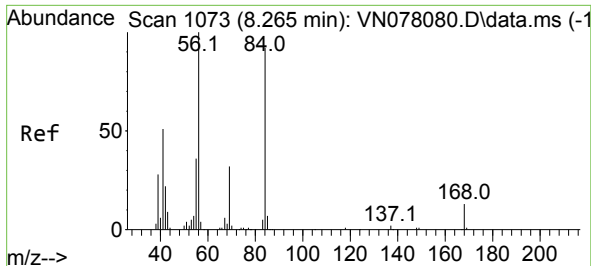
Tgt Ion: 43 Resp: 1890
Ion Ratio Lower Upper
43 100
74 22.2 26.2 39.4#



#20
Methylene Chloride
Concen: 0.411 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 84 Resp: 2324
Ion Ratio Lower Upper
84 100
49 58.2 79.7 119.5#
51 32.3 25.2 37.8
86 48.6 53.3 79.9#

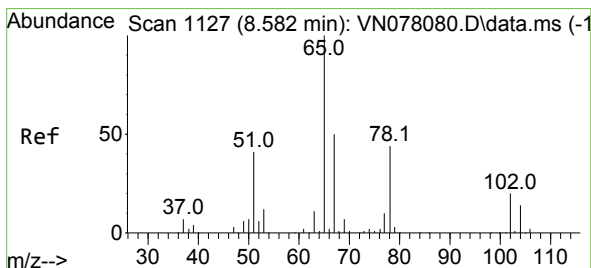
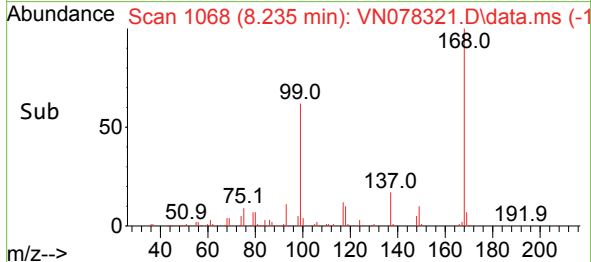
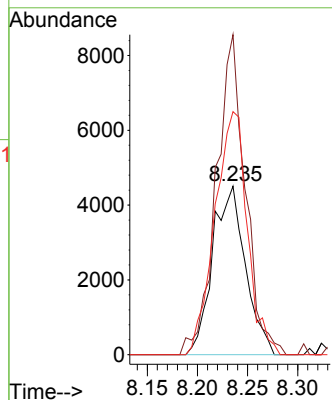
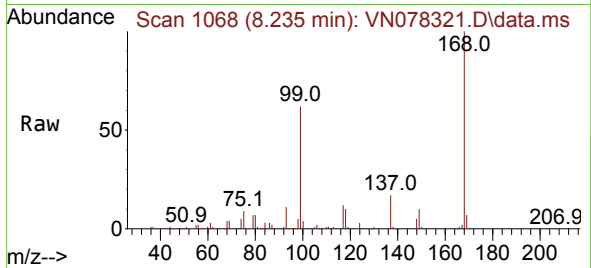




#31
Cyclohexane
Concen: 1.348 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

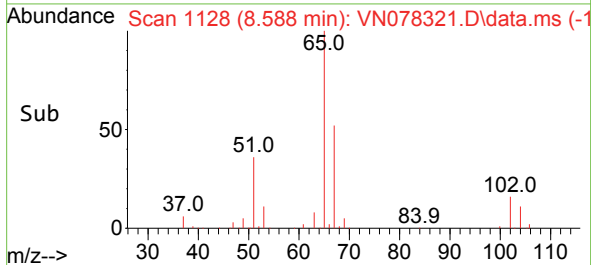
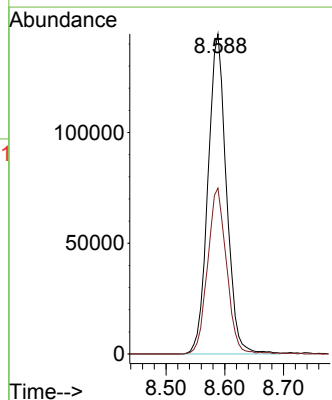
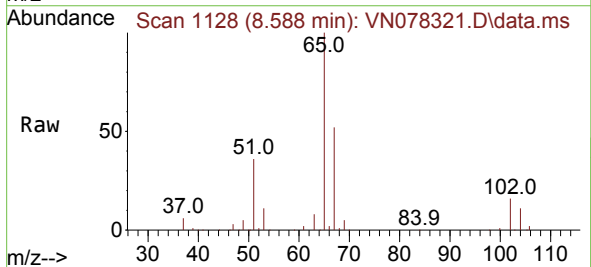
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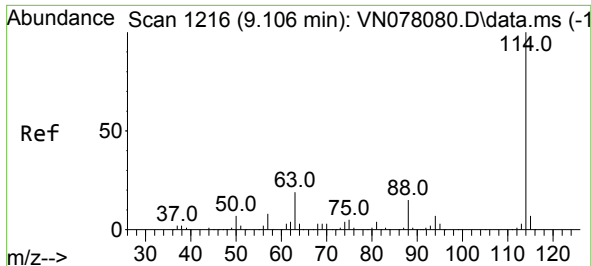
Tgt Ion: 56 Resp: 10271
Ion Ratio Lower Upper
56 100
69 189.9 26.8 40.2#
84 144.2 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 52.975 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 65 Resp: 314674
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.6

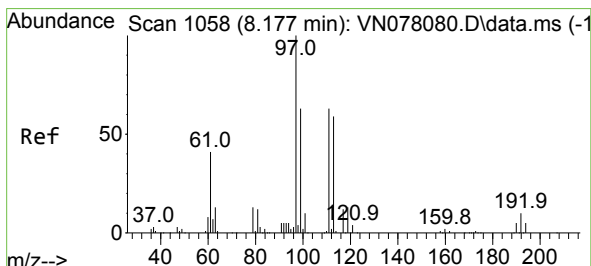
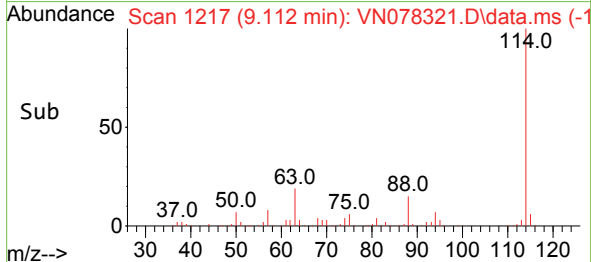
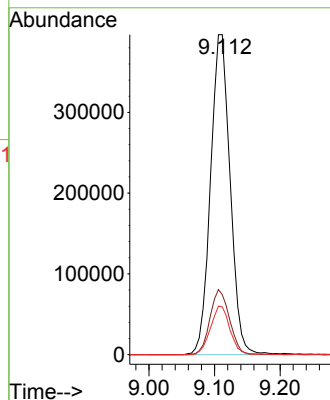
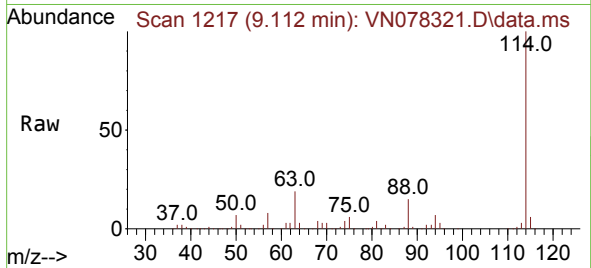




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

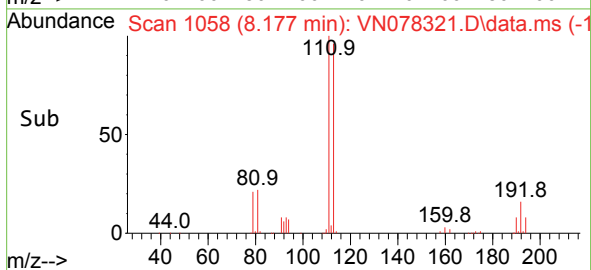
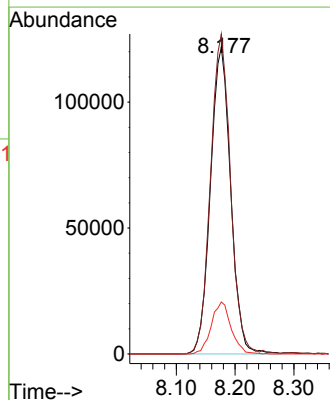
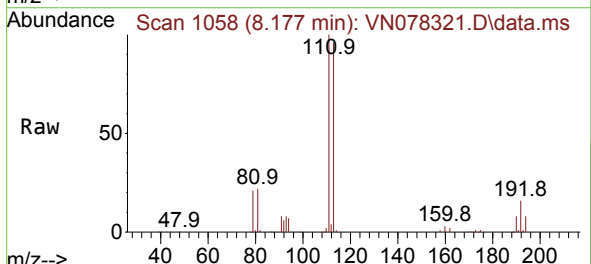
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Tgt Ion:114 Resp: 822633
Ion Ratio Lower Upper
114 100
63 18.7 0.0 36.4
88 14.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 55.898 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion:113 Resp: 290748
Ion Ratio Lower Upper
113 100
111 103.4 82.6 123.8
192 16.7 12.7 19.1

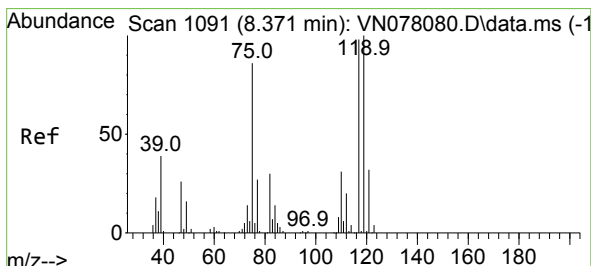
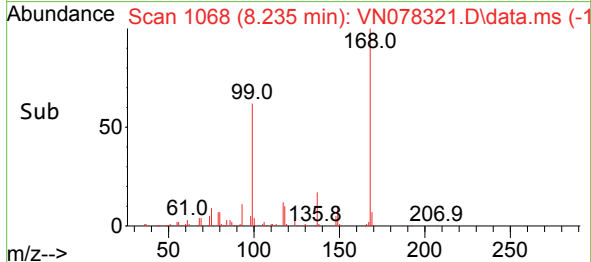
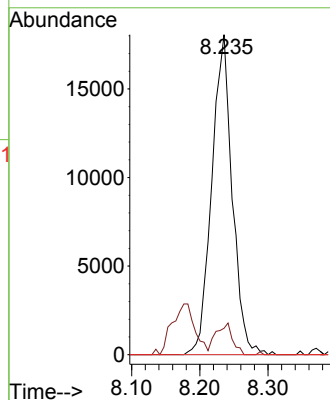
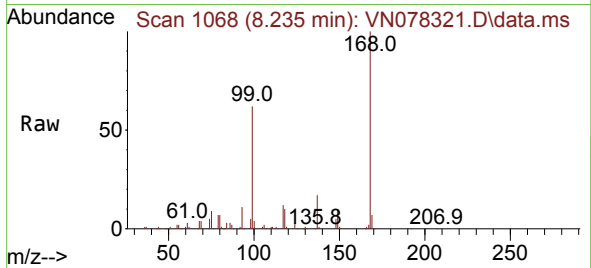




#36
1,1-Dichloropropene
Concen: 5.070 ug/l
RT: 8.235 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

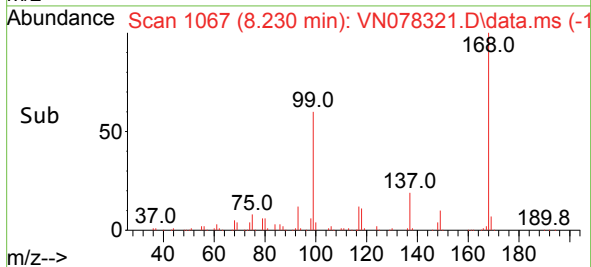
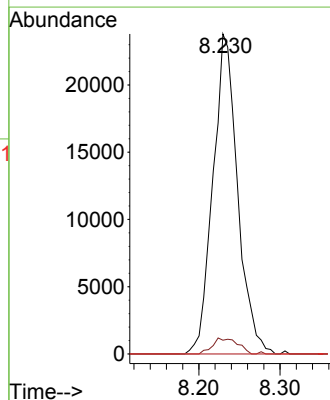
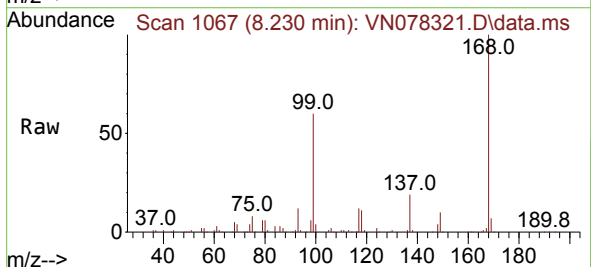
Instrument :
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ClientSampleId :
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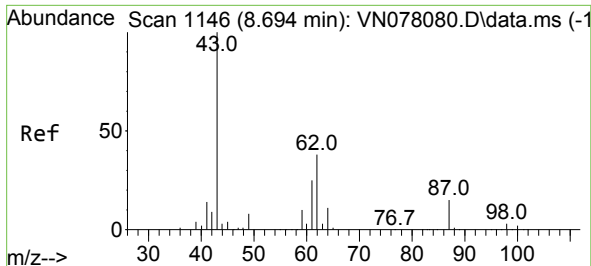
Tgt Ion: 75 Resp: 37825
Ion Ratio Lower Upper
75 100
110 8.0 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.378 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 117 Resp: 50247
Ion Ratio Lower Upper
117 100
119 4.3 77.3 115.9#
121 0.0 23.3 34.9#

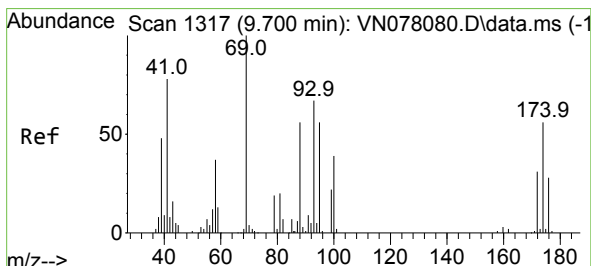
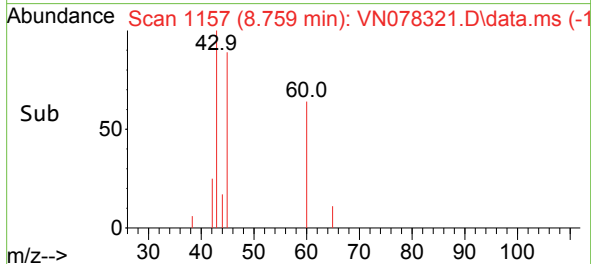
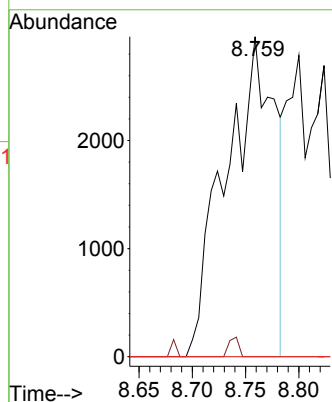
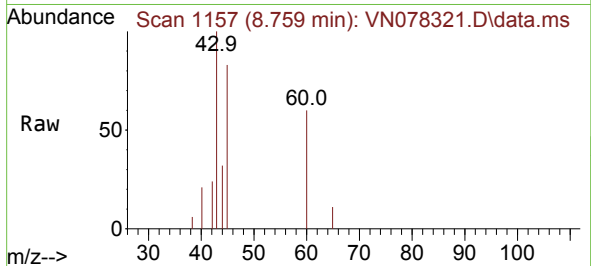




#43
Isopropyl Acetate
Concen: 0.850 ug/l
RT: 8.759 min Scan# 1157
Delta R.T. 0.065 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

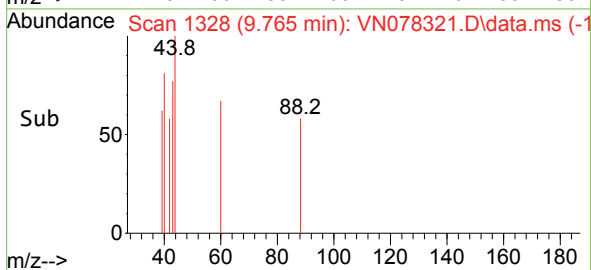
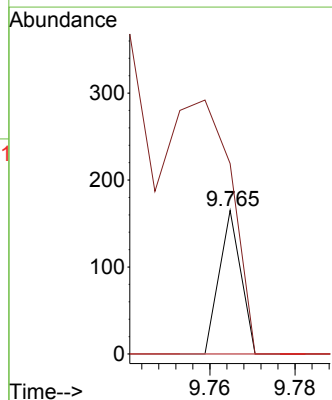
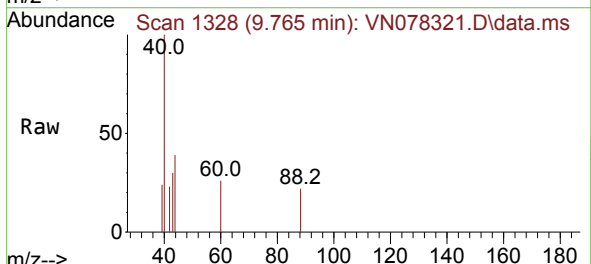
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062023

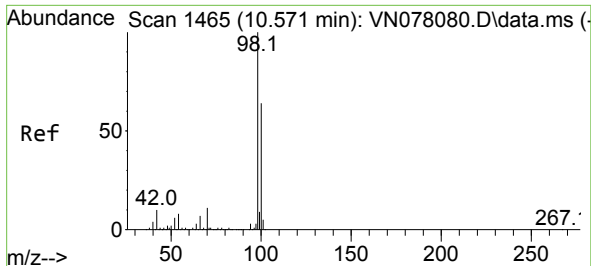
Tgt Ion: 43 Resp: 9475
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#49
1,4-Dioxane
Concen: 0.590 ug/l
RT: 9.765 min Scan# 1328
Delta R.T. 0.065 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

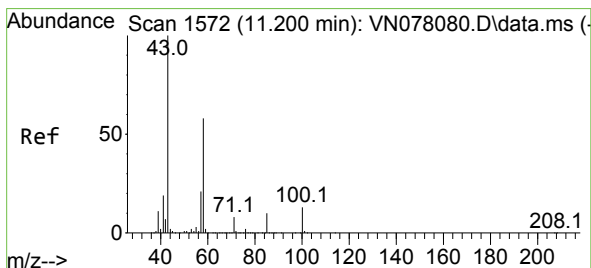
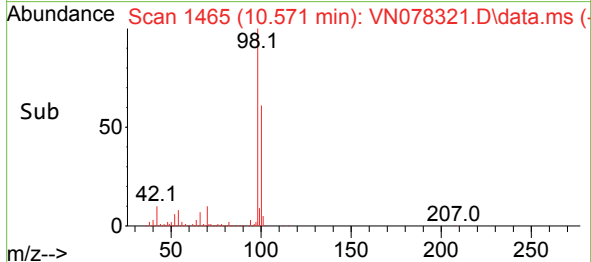
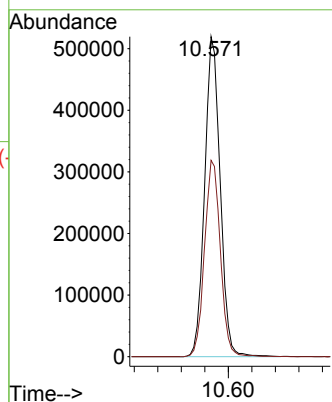
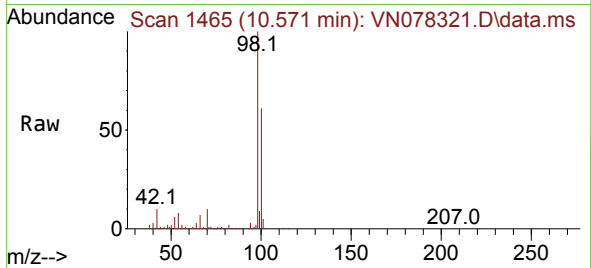




#50
Toluene-d8
Concen: 47.434 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

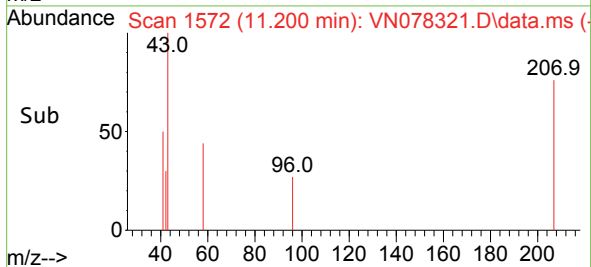
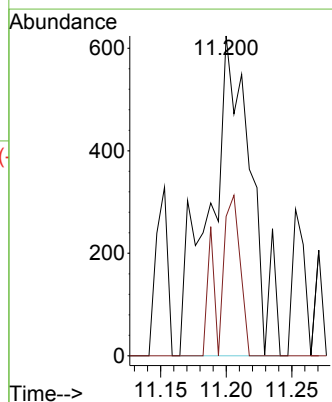
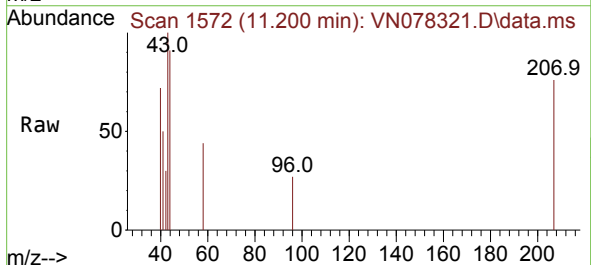
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062023

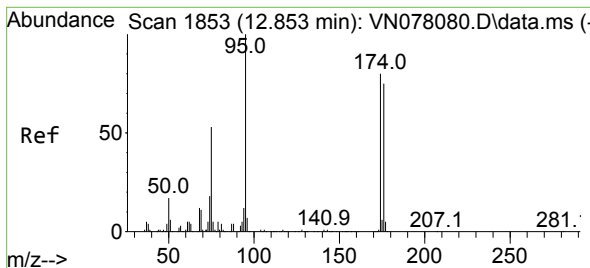
Tgt Ion: 98 Resp: 951145
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0



#59
2-Hexanone
Concen: 0.337 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 43 Resp: 1377
Ion Ratio Lower Upper
43 100
58 25.4 31.7 95.1#





#62

4-Bromofluorobenzene

Concen: 47.944 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VN078321.D

Acq: 21 Jun 2023 14:46

Instrument :

MSVOA_N

ClientSampleId :

TB-01-062023

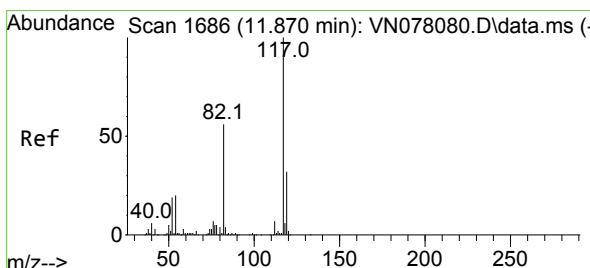
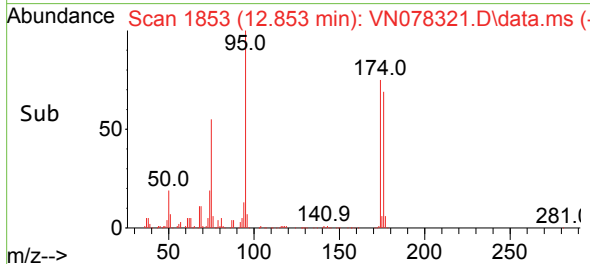
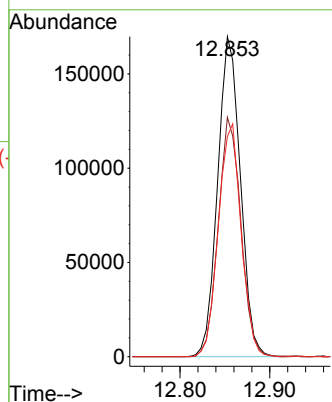
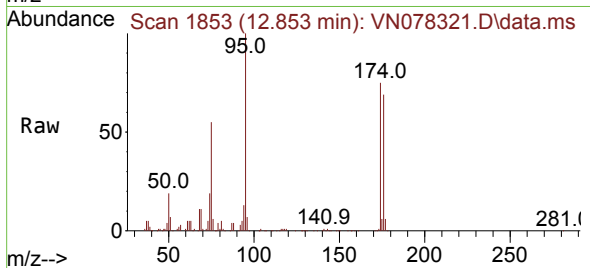
Tgt Ion: 95 Resp: 298868

Ion Ratio Lower Upper

95 100

174 74.7 0.0 143.8

176 73.0 0.0 135.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN078321.D

Acq: 21 Jun 2023 14:46

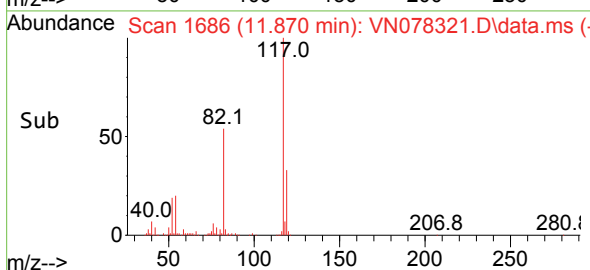
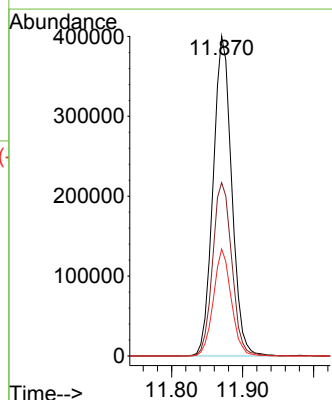
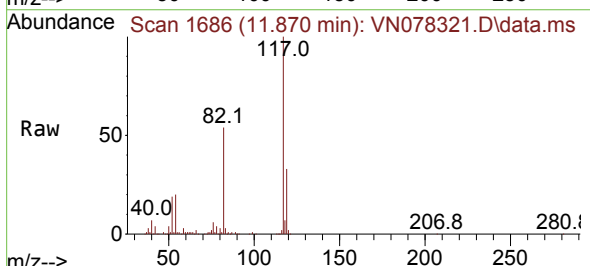
Tgt Ion: 117 Resp: 727439

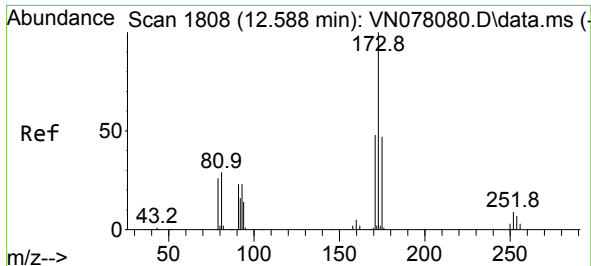
Ion Ratio Lower Upper

117 100

82 54.1 44.0 66.0

119 33.4 25.6 38.4

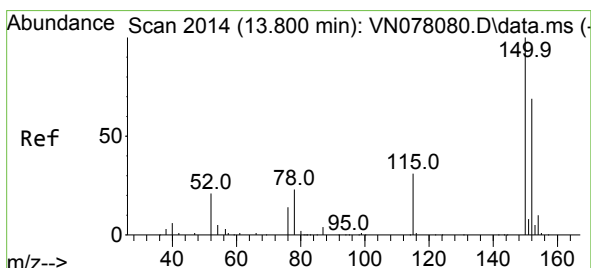
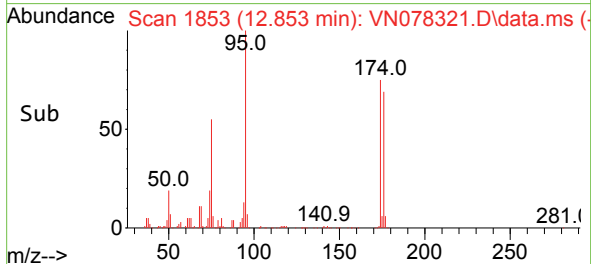
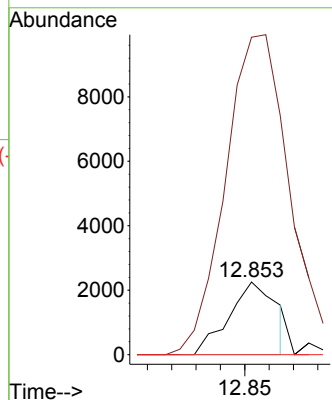
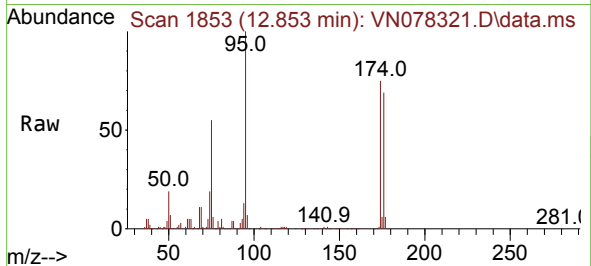




#71
Bromoform
Concen: 0.827 ug/l
RT: 12.853 min Scan# 1808
Delta R.T. 0.265 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

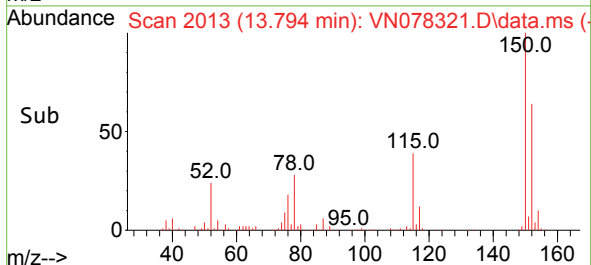
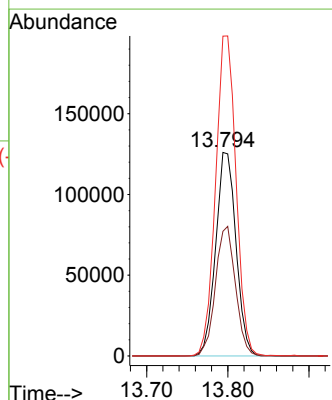
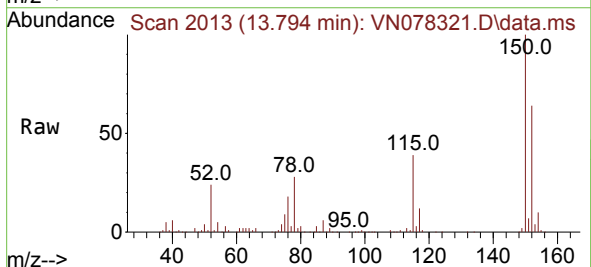
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062023

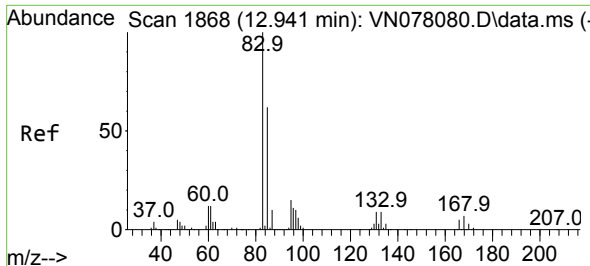
Tgt Ion:173 Resp: 3058
Ion Ratio Lower Upper
173 100
175 503.4 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion:152 Resp: 219860
Ion Ratio Lower Upper
152 100
115 62.5 32.3 96.8
150 158.0 0.0 355.8

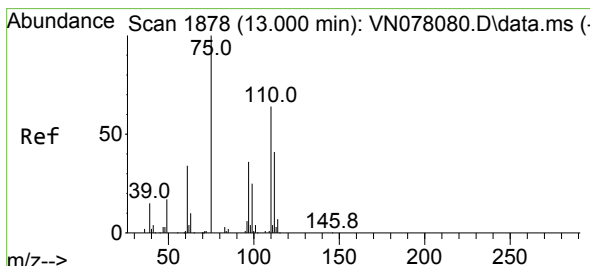
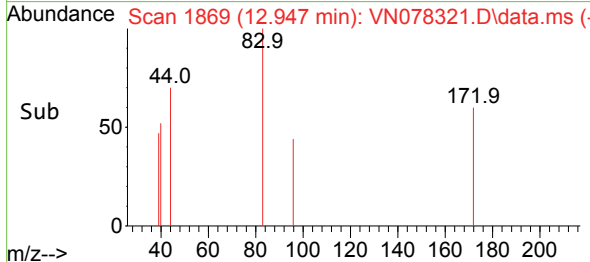
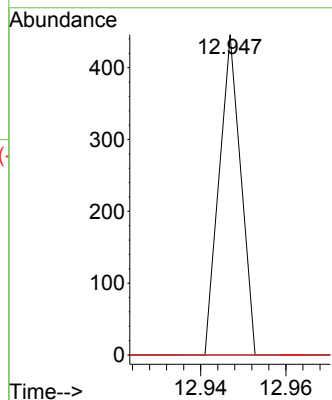
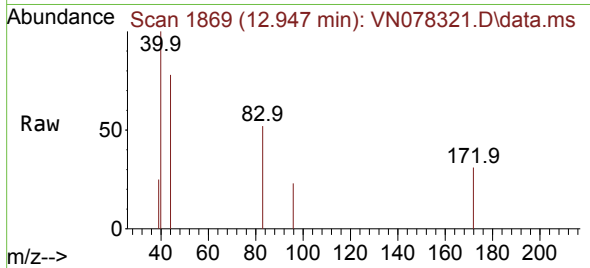




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.947 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

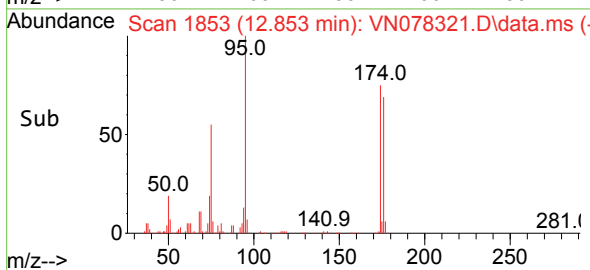
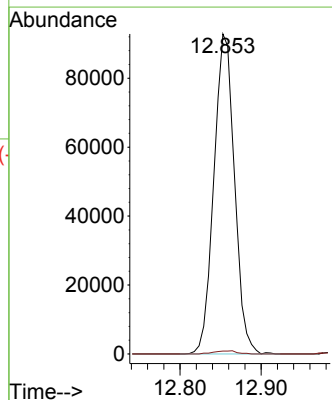
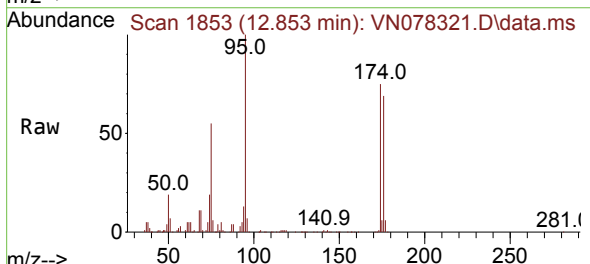
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062023

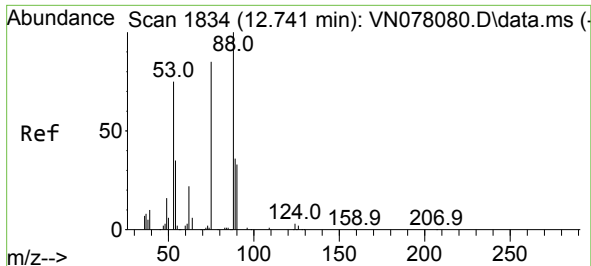
Tgt Ion: 83 Resp: 157
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 31.517 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion: 75 Resp: 163812
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#

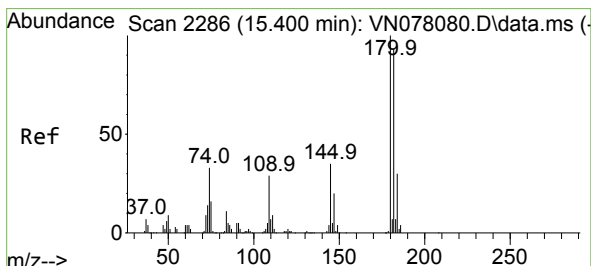
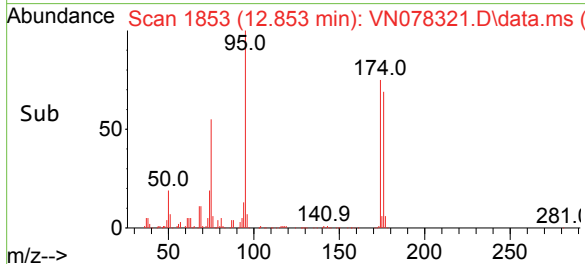
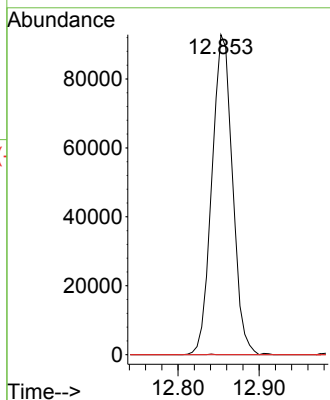
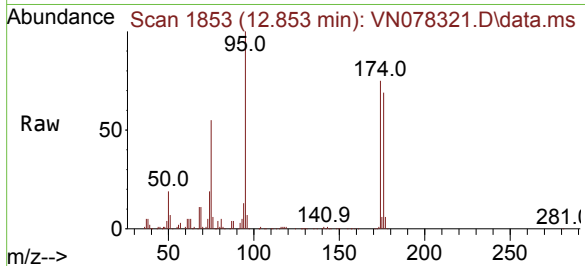




#81
trans-1,4-Dichloro-2-butene
Concen: 96.830 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

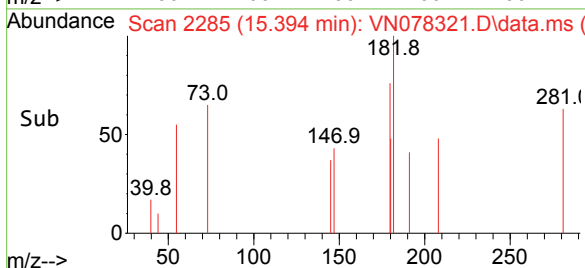
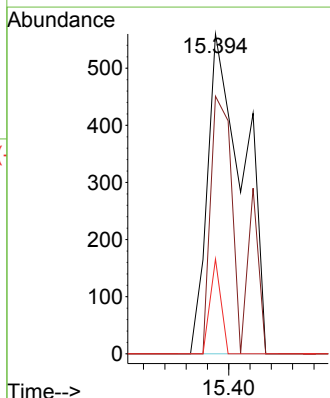
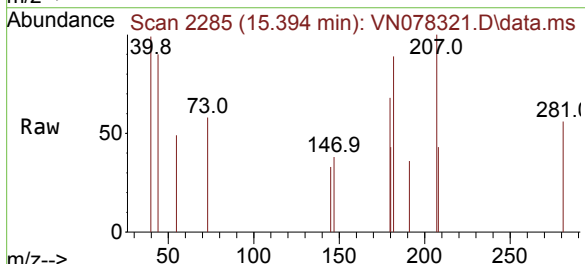
Instrument :
MSVOA_N
ClientSampleId :
TB-01-062023

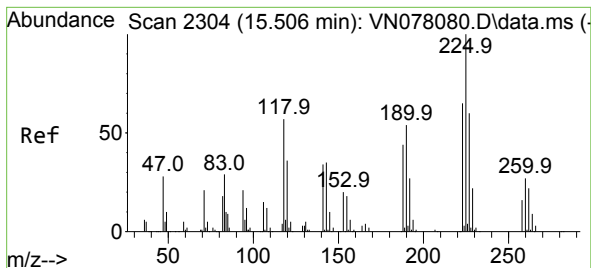
Tgt Ion: 75 Resp: 163812
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.230 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. -0.006 min
Lab File: VN078321.D
Acq: 21 Jun 2023 14:46

Tgt Ion:180 Resp: 653
Ion Ratio Lower Upper
180 100
182 62.0 46.1 138.2
145 9.0 16.6 49.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.500 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078321.D

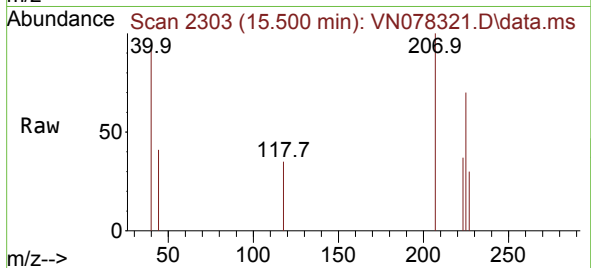
Acq: 21 Jun 2023 14:46

Instrument :

MSVOA_N

ClientSampleId :

TB-01-062023



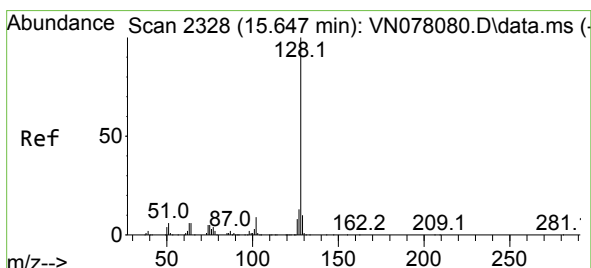
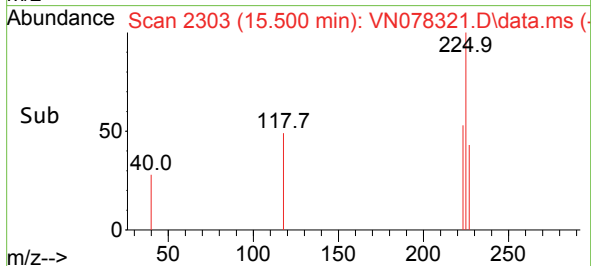
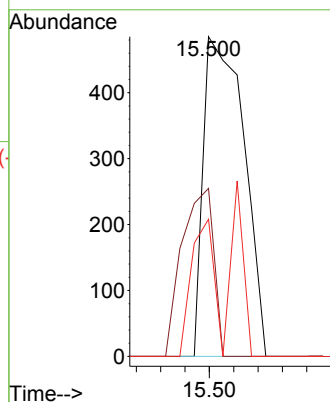
Tgt Ion:225 Resp: 560

Ion Ratio Lower Upper

225 100

223 41.1 31.3 93.8

227 23.9 31.9 95.9#



#95

Naphthalene

Concen: 0.269 ug/l

RT: 15.653 min Scan# 2329

Delta R.T. 0.006 min

Lab File: VN078321.D

Acq: 21 Jun 2023 14:46

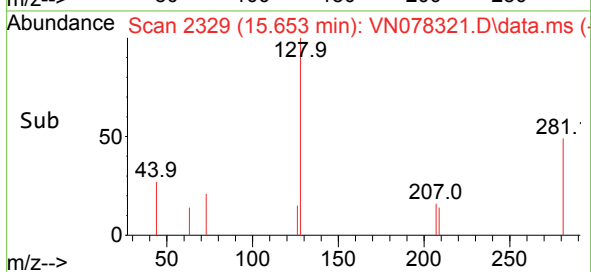
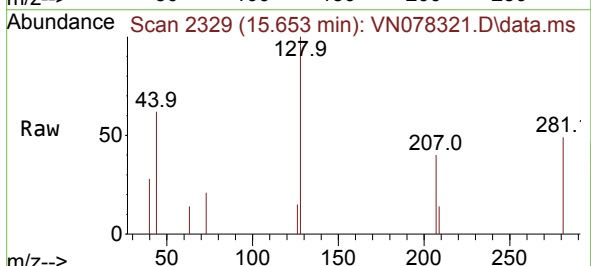
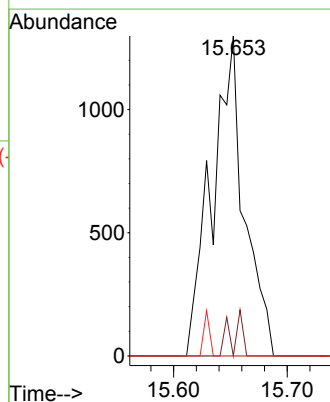
Tgt Ion:128 Resp: 2572

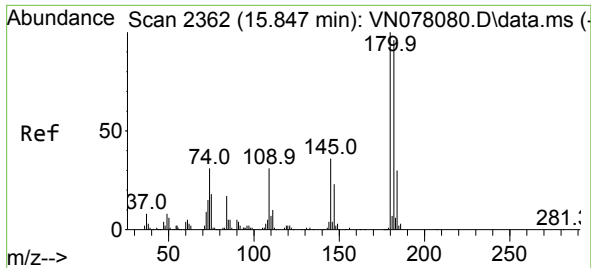
Ion Ratio Lower Upper

128 100

127 2.1 10.0 15.0#

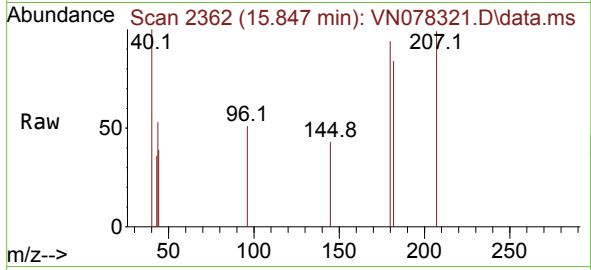
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.227 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN078321.D
 Acq: 21 Jun 2023 14:46

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-062023



Tgt Ion:180 Resp: 723
 Ion Ratio Lower Upper
 180 100
 182 118.1 46.2 138.6
 145 14.5 17.5 52.6#

