

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072823\
 Data File : VN078688.D
 Acq On : 28 Jul 2023 16:28
 Operator : JC\MD
 Sample : 03831-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20230727

Quant Time: Jul 29 00:51:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

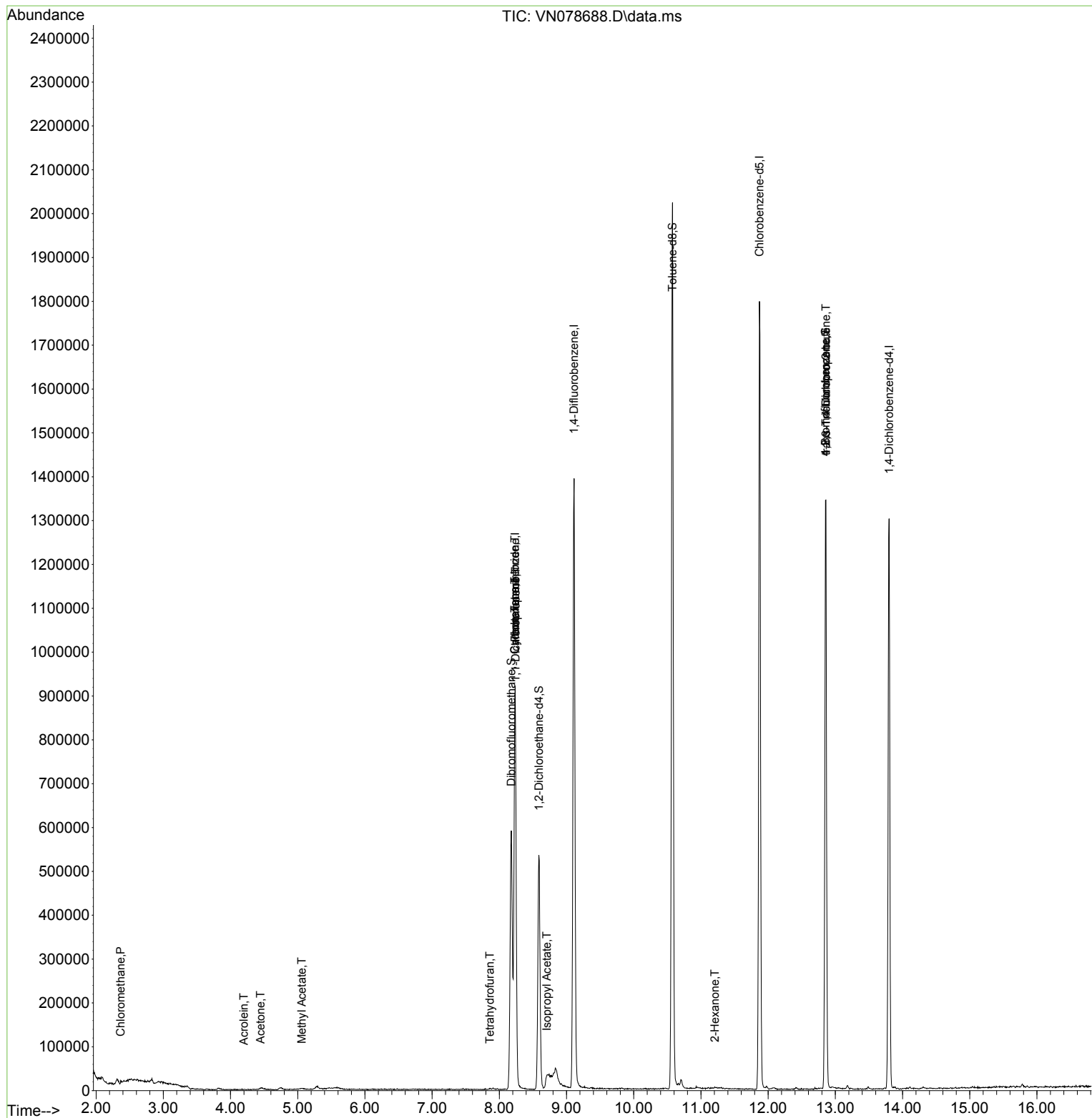
Internal Standards						
1) Pentafluorobenzene	8.236	168	688588	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1240595	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	1128440	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	371253	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	441872	47.867	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.740%
35) Dibromofluoromethane	8.177	113	438633	52.085	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.160%
50) Toluene-d8	10.577	98	1485489	46.693	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.380%
62) 4-Bromofluorobenzene	12.853	95	511455	52.192	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	104.380%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	5935	0.647	ug/l	95
5) Bromomethane	2.977	94	2985	Below Cal	#	63
6) Chloroethane	2.924	64	3190	Below Cal	#	43
13) Acrolein	4.201	56	454	0.324	ug/l #	44
16) Acetone	4.448	43	4984	1.733	ug/l #	72
18) Methyl Acetate	5.059	43	4550	0.374	ug/l #	60
20) Methylene Chloride	5.277	84	5130	Below Cal	#	79
29) Tetrahydrofuran	7.859	42	1094	0.368	ug/l #	30
31) Cyclohexane	8.230	56	13279	1.064	ug/l #	1
36) 1,1-Dichloropropene	8.241	75	53241	4.378	ug/l #	48
38) Carbon Tetrachloride	8.230	117	71599	5.418	ug/l #	16
43) Isopropyl Acetate	8.706	43	15771	0.945	ug/l #	52
59) 2-Hexanone	11.206	43	2450	0.347	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.953	83	384	Below Cal	#	51
76) 1,2,3-Trichloropropane	12.859	75	248200	27.659	ug/l #	1
77) Bromobenzene	12.982	156	167	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.859	75	248200	72.682	ug/l #	15
90) Hexachloroethane	14.341	117	108	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.588	75	66	Below Cal	#	4
94) Hexachlorobutadiene	15.506	225	764	Below Cal		77

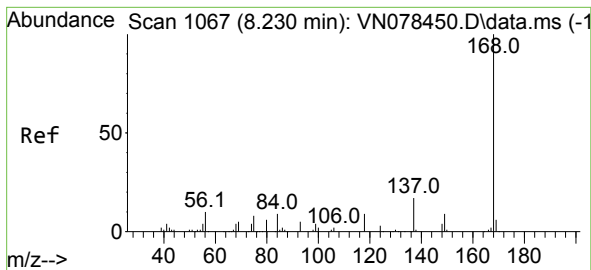
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

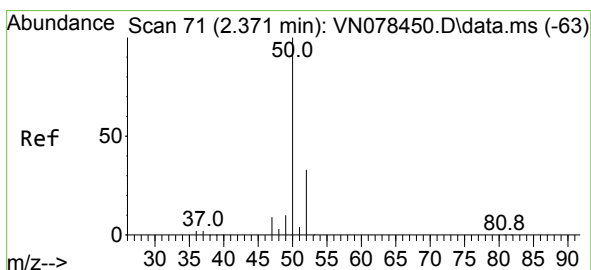
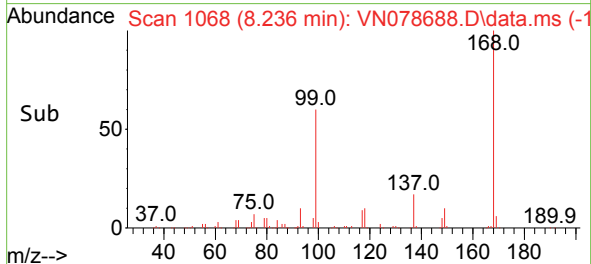
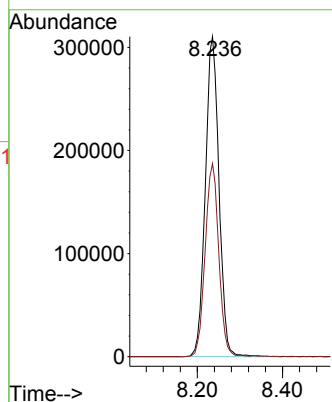
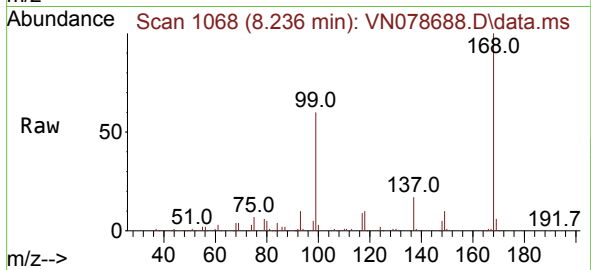
TB-20230727

Tgt Ion:168 Resp: 688588

Ion Ratio Lower Upper

168 100

99 60.4 53.0 79.6



#3

Chloromethane

Concen: 0.647 ug/l

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN078688.D

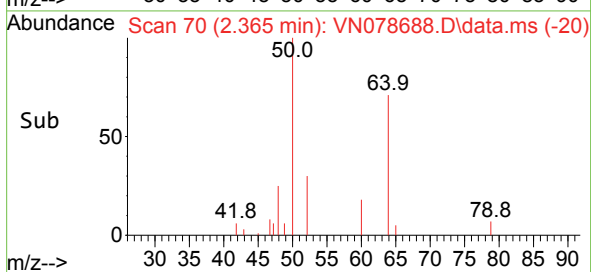
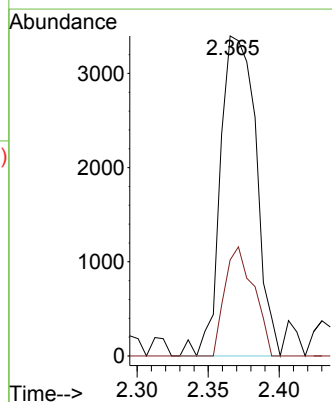
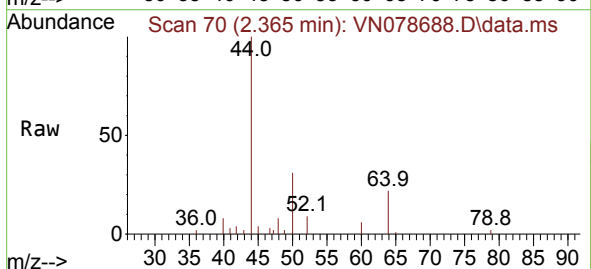
Acq: 28 Jul 2023 16:28

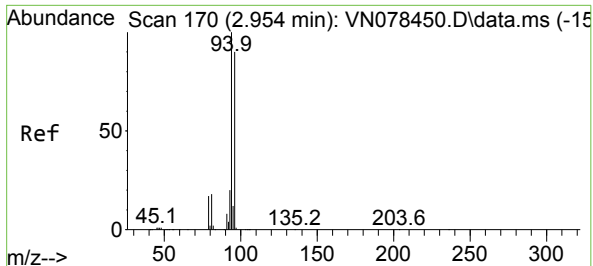
Tgt Ion: 50 Resp: 5935

Ion Ratio Lower Upper

50 100

52 30.0 26.5 39.7

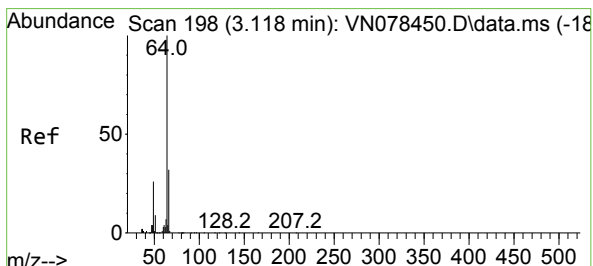
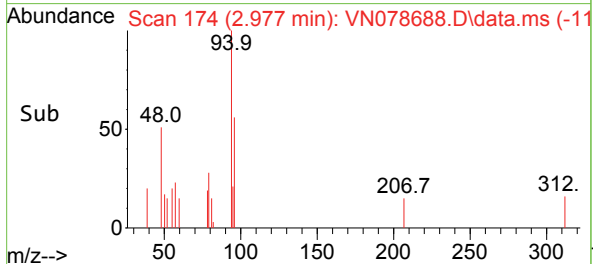
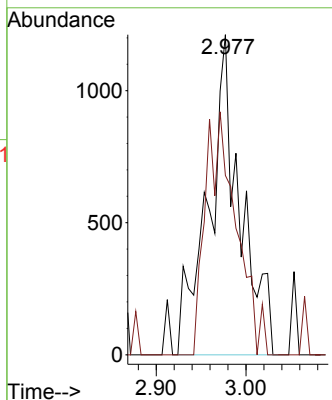
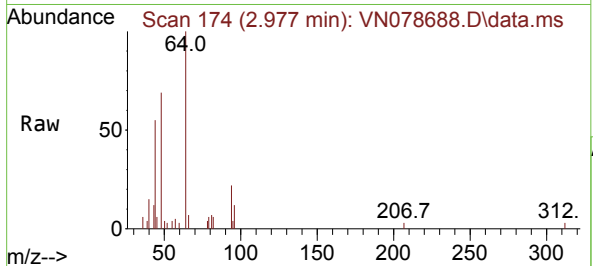




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

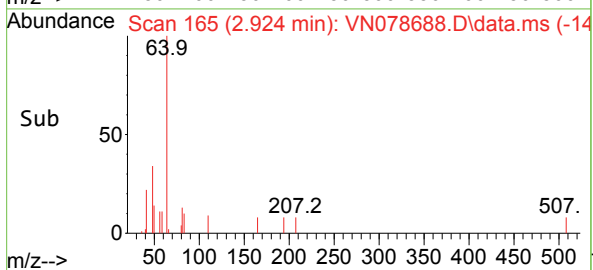
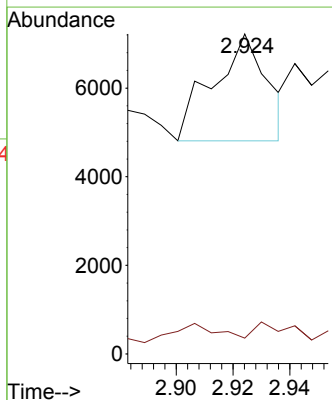
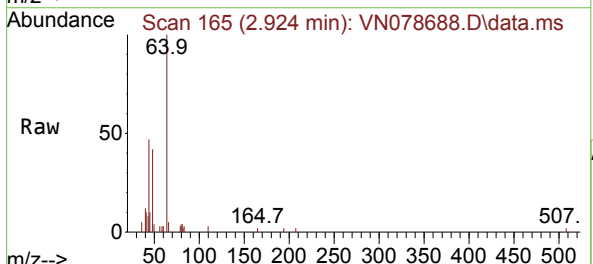
Instrument :
MSVOA_N
ClientSampleId :
TB-20230727

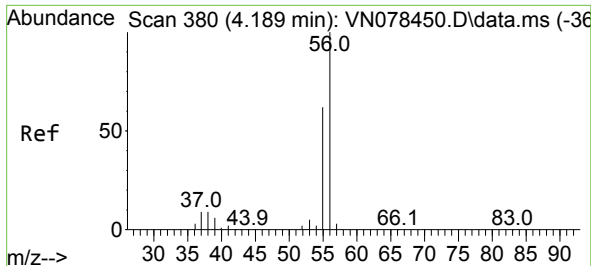
Tgt Ion: 94 Resp: 2985
Ion Ratio Lower Upper
94 100
96 56.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 2.924 min Scan# 165
Delta R.T. -0.194 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

Tgt Ion: 64 Resp: 3190
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#13

Acrolein

Concen: 0.324 ug/l

RT: 4.201 min Scan# 382

Delta R.T. 0.012 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

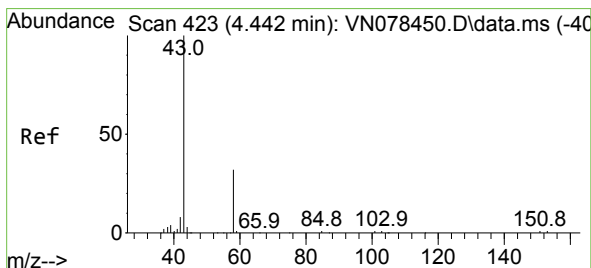
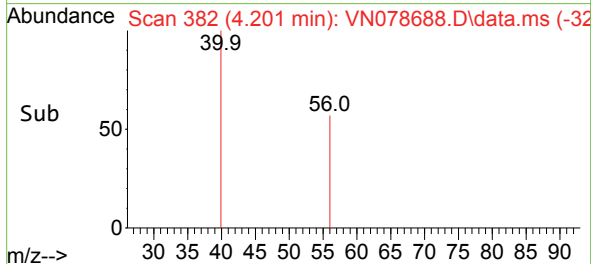
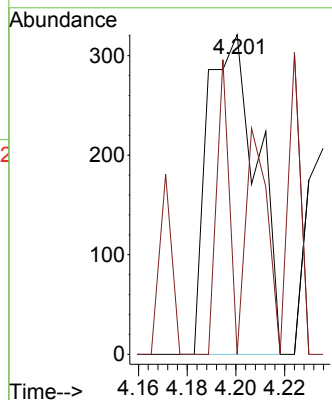
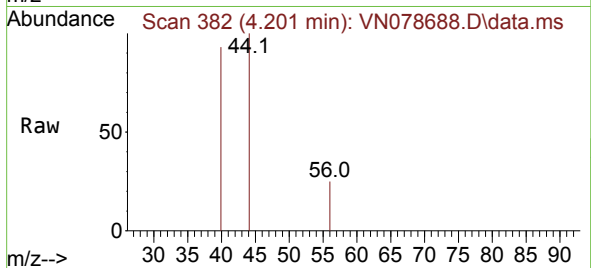
TB-20230727

Tgt Ion: 56 Resp: 454

Ion Ratio Lower Upper

56 100

55 22.9 54.5 81.7#



#16

Acetone

Concen: 1.733 ug/l

RT: 4.448 min Scan# 424

Delta R.T. 0.006 min

Lab File: VN078688.D

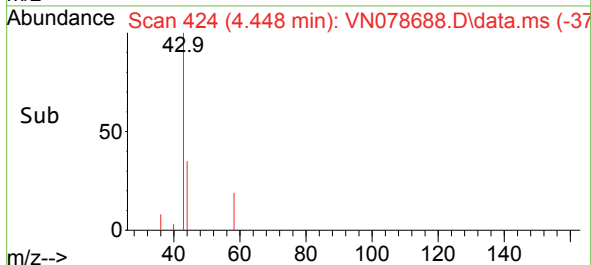
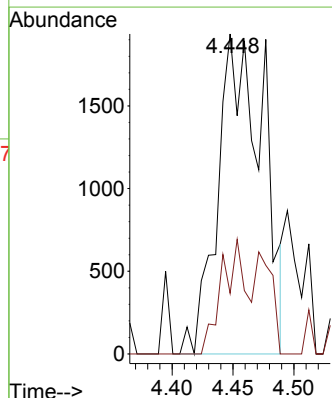
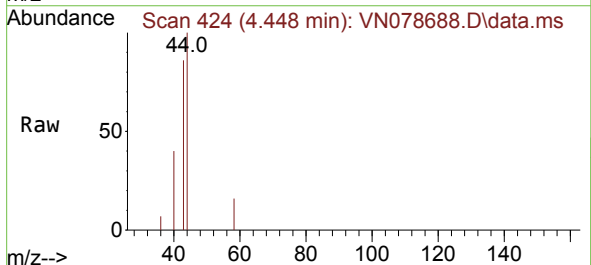
Acq: 28 Jul 2023 16:28

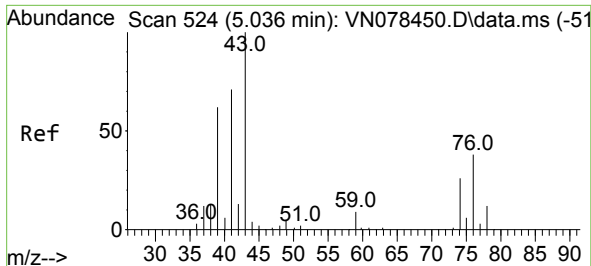
Tgt Ion: 43 Resp: 4984

Ion Ratio Lower Upper

43 100

58 19.0 28.0 42.0#





#18

Methyl Acetate

Concen: 0.374 ug/l

RT: 5.059 min Scan# 51

Delta R.T. 0.023 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

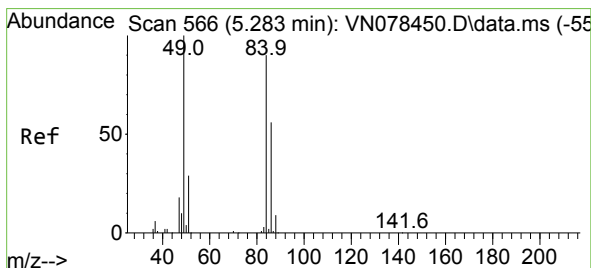
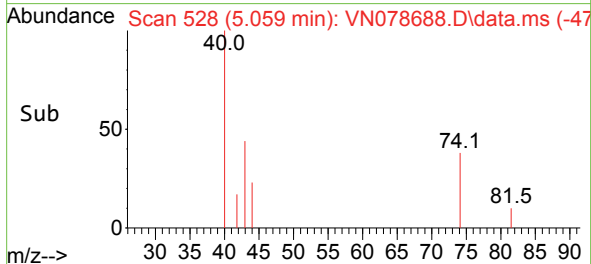
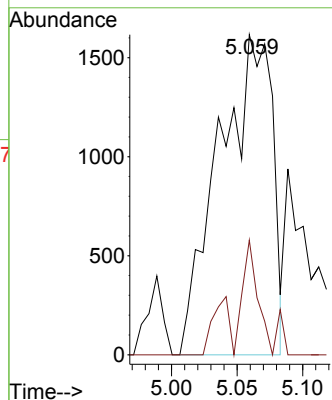
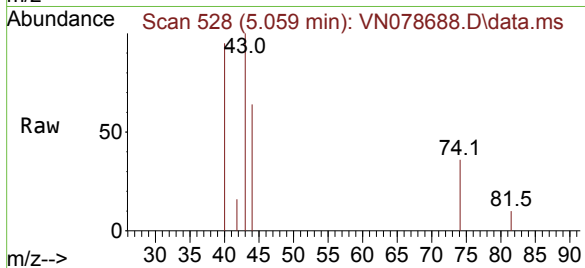
TB-20230727

Tgt Ion: 43 Resp: 4550

Ion Ratio Lower Upper

43 100

74 10.4 26.2 39.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.277 min Scan# 565

Delta R.T. -0.006 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

Tgt Ion: 84 Resp: 5130

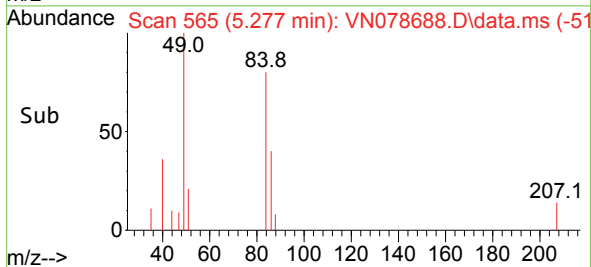
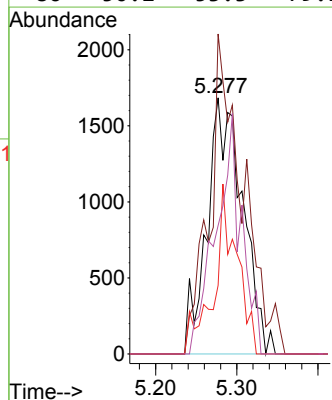
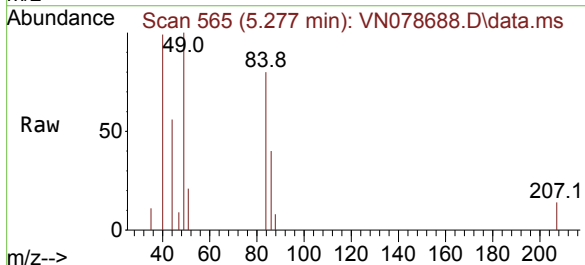
Ion Ratio Lower Upper

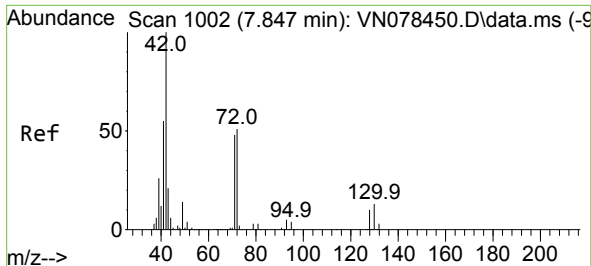
84 100

49 124.9 79.7 119.5#

51 26.8 25.2 37.8

86 50.2 53.3 79.9#





#29

Tetrahydrofuran

Concen: 0.368 ug/l

RT: 7.859 min Scan# 1094

Delta R.T. 0.012 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

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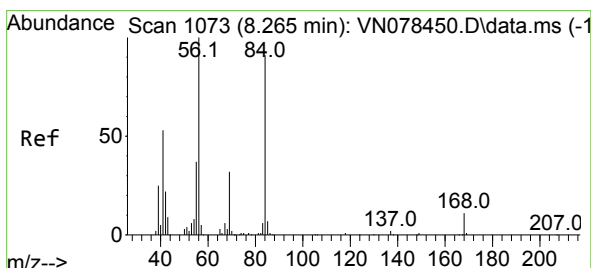
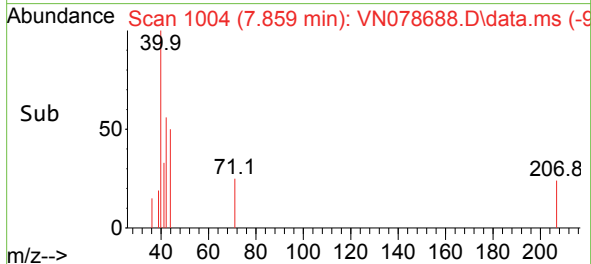
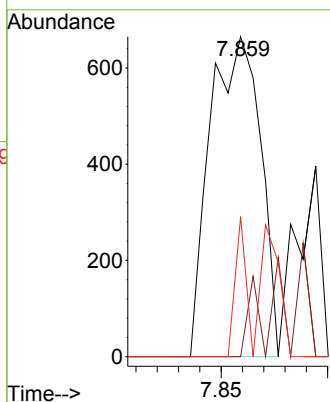
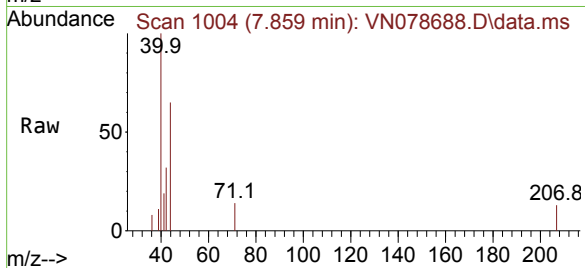
Tgt Ion: 42 Resp: 1094

Ion Ratio Lower Upper

42 100

72 5.4 49.8 74.6#

71 9.4 47.4 71.2#



#31

Cyclohexane

Concen: 1.064 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

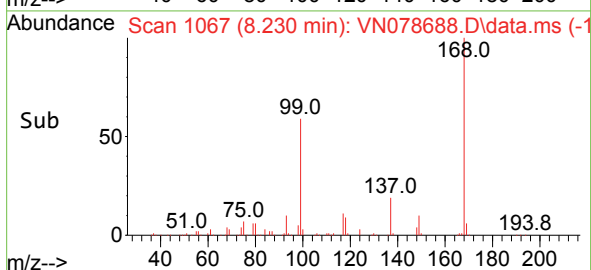
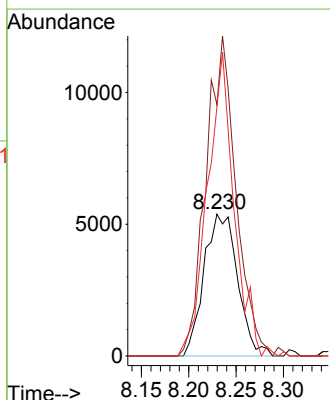
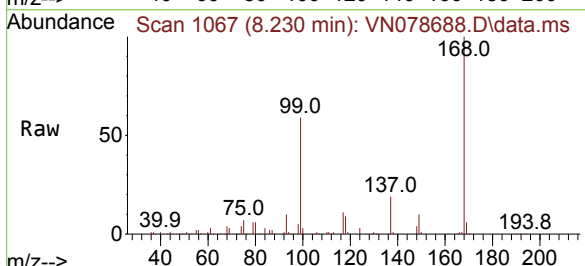
Tgt Ion: 56 Resp: 13279

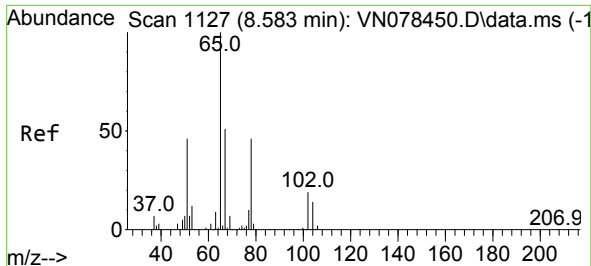
Ion Ratio Lower Upper

56 100

69 177.3 26.8 40.2#

84 175.7 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 47.867 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078688.D

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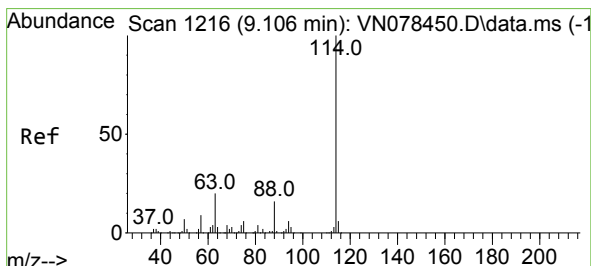
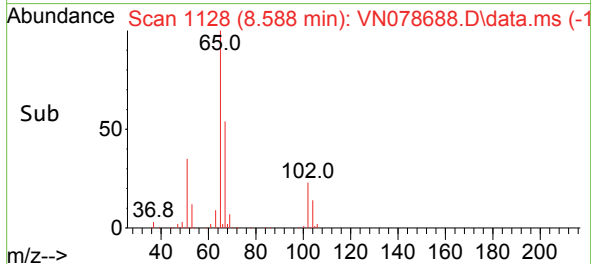
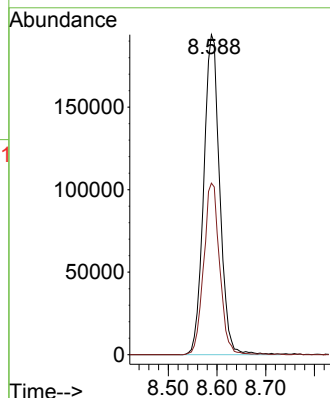
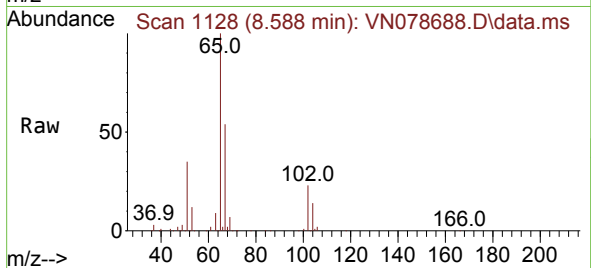
TB-20230727

Tgt Ion: 65 Resp: 441872

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# 1217

Delta R.T. 0.006 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

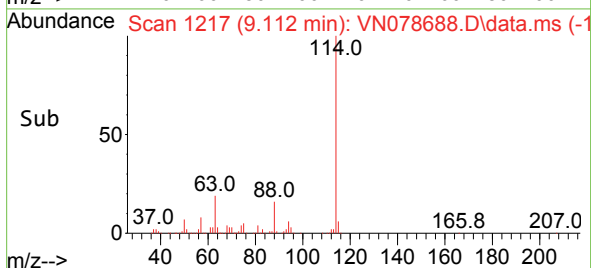
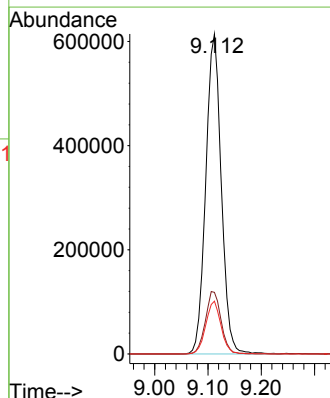
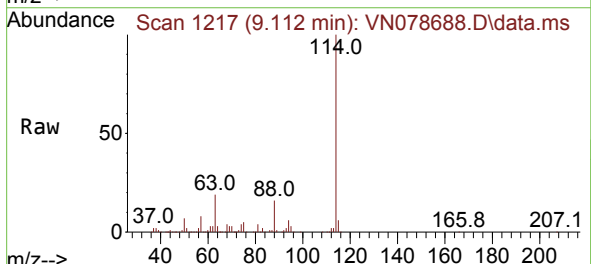
Tgt Ion:114 Resp: 1240595

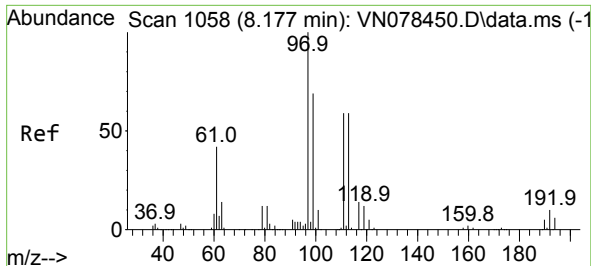
Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

88 16.5 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.085 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

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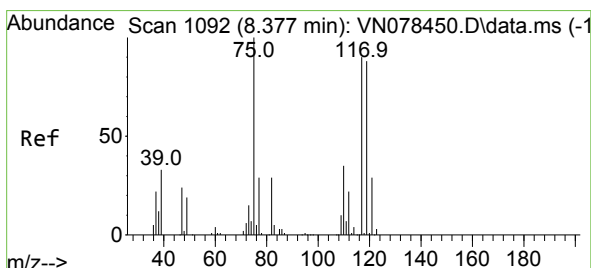
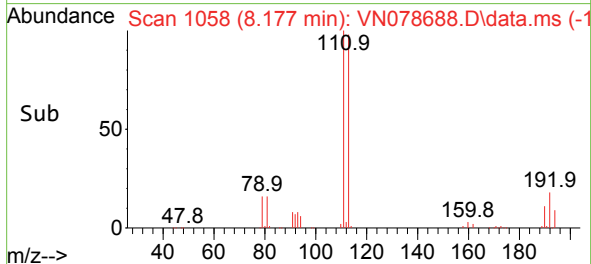
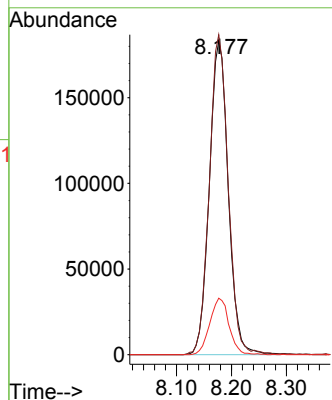
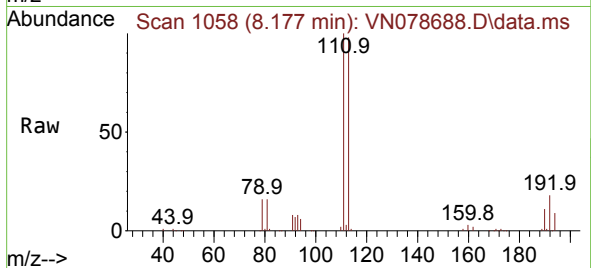
Tgt Ion:113 Resp: 438633

Ion Ratio Lower Upper

113 100

111 101.5 82.6 123.8

192 18.3 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.378 ug/l

RT: 8.241 min Scan# 1069

Delta R.T. -0.136 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

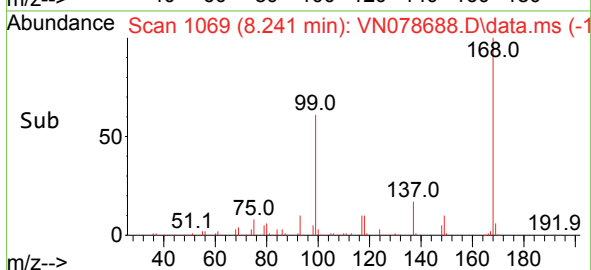
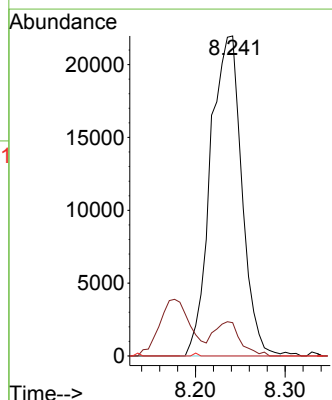
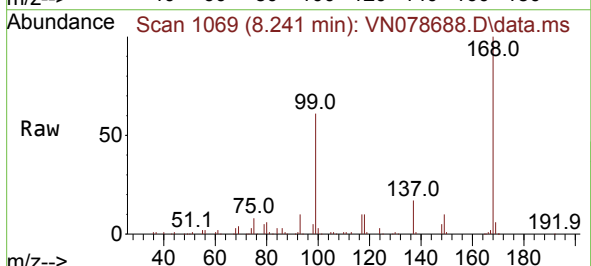
Tgt Ion: 75 Resp: 53241

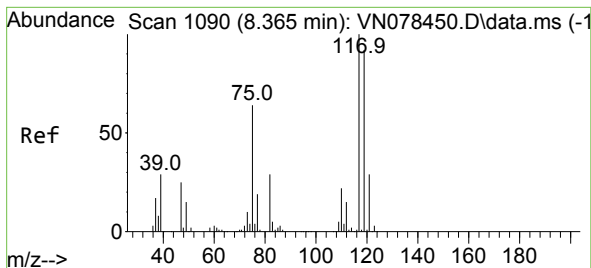
Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.418 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN078688.D

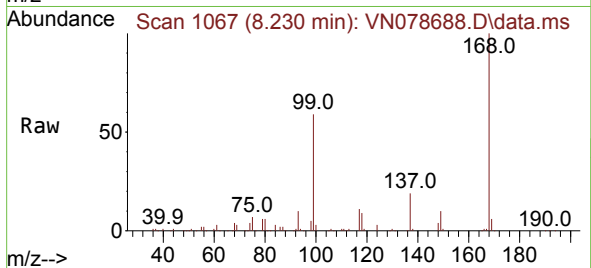
Acq: 28 Jul 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

TB-20230727



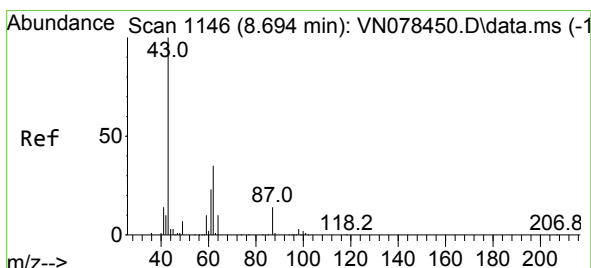
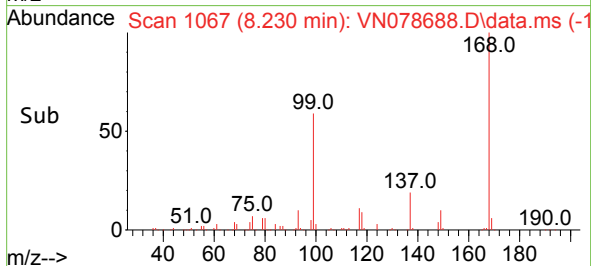
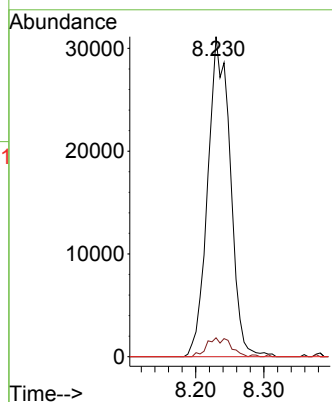
Tgt Ion:117 Resp: 71599

Ion Ratio Lower Upper

117 100

119 5.9 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.945 ug/l

RT: 8.706 min Scan# 1148

Delta R.T. 0.012 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

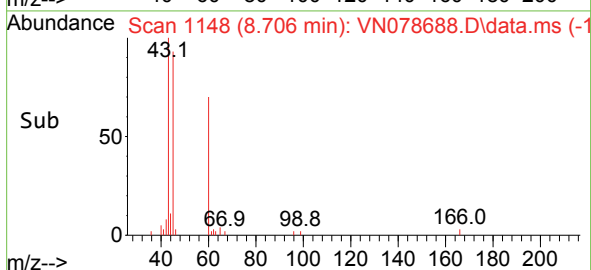
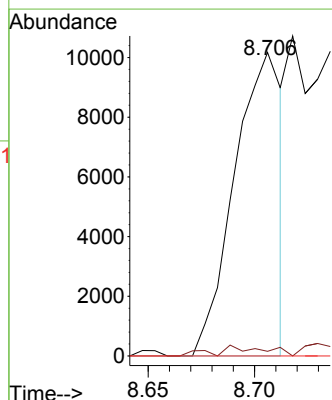
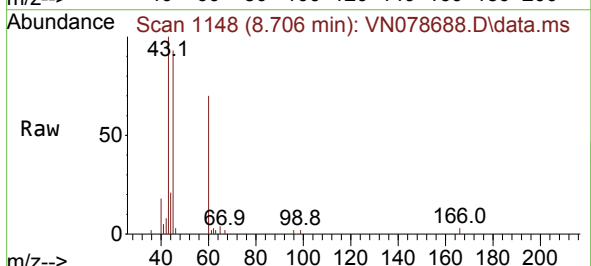
Tgt Ion: 43 Resp: 15771

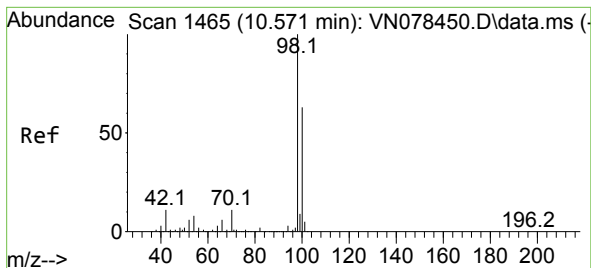
Ion Ratio Lower Upper

43 100

61 2.7 24.7 37.1#

87 0.0 14.6 21.8#

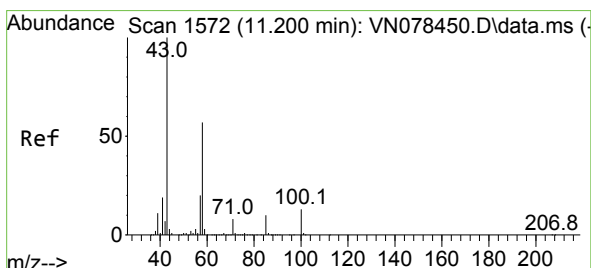
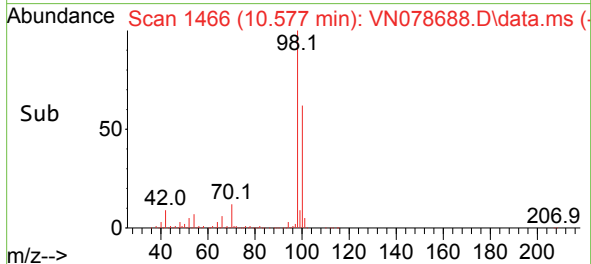
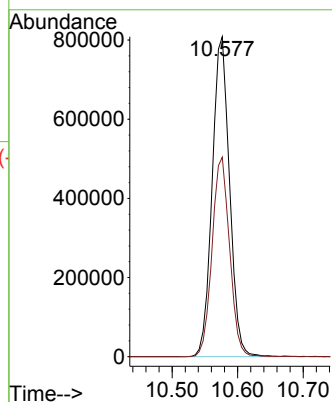
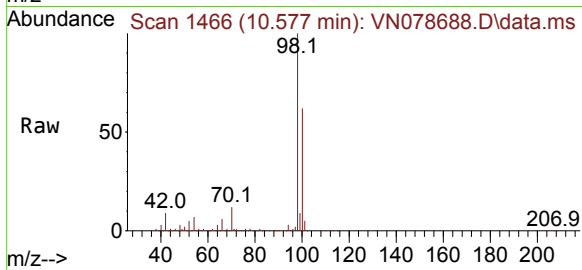




#50
Toluene-d8
Concen: 46.693 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

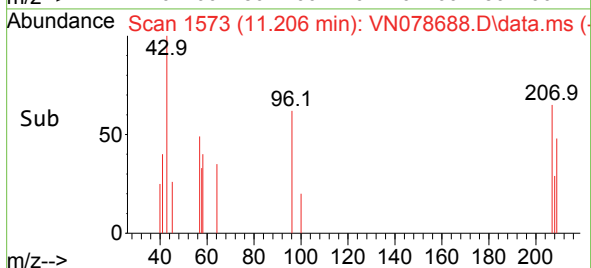
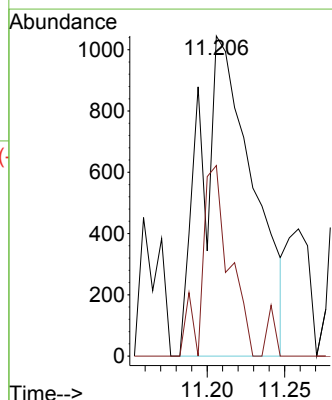
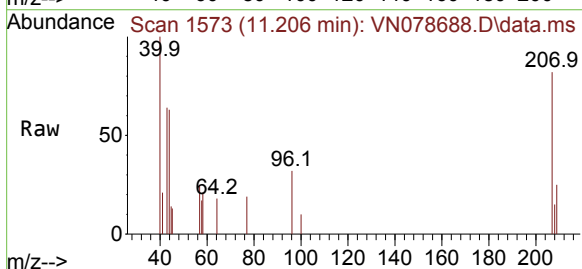
Instrument :
MSVOA_N
ClientSampleId :
TB-20230727

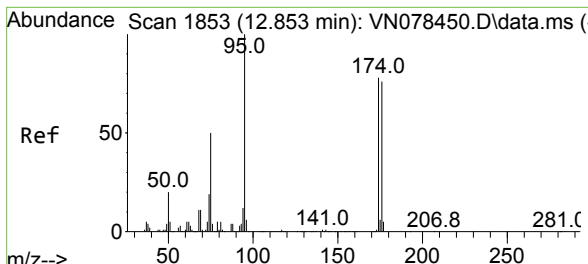
Tgt Ion: 98 Resp: 1485489
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0



#59
2-Hexanone
Concen: 0.347 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

Tgt Ion: 43 Resp: 2450
Ion Ratio Lower Upper
43 100
58 31.2 31.7 95.1#

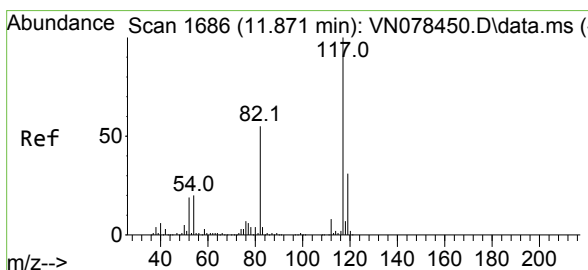
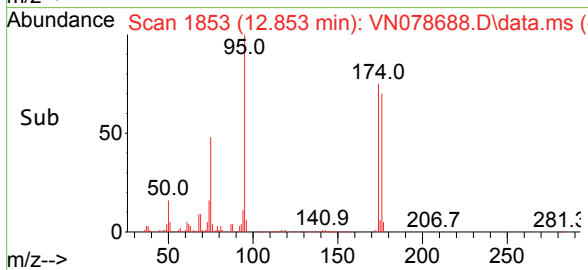
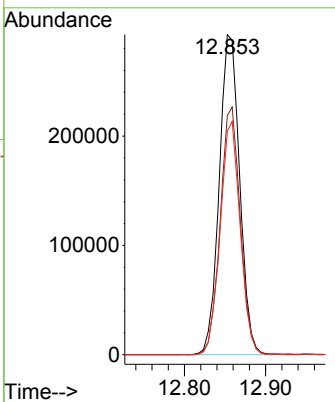
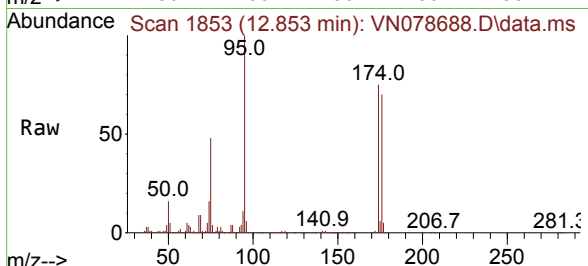




#62
 4-Bromofluorobenzene
 Concen: 52.192 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078688.D
 Acq: 28 Jul 2023 16:28

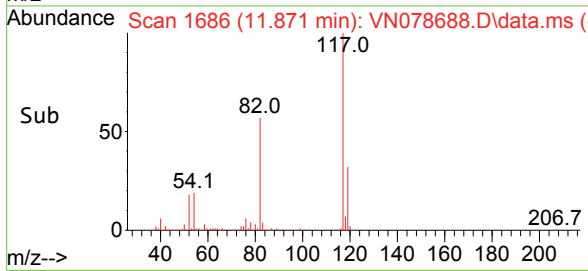
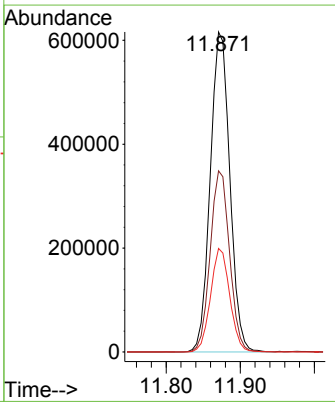
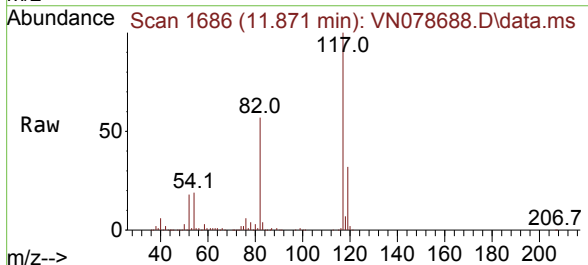
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20230727

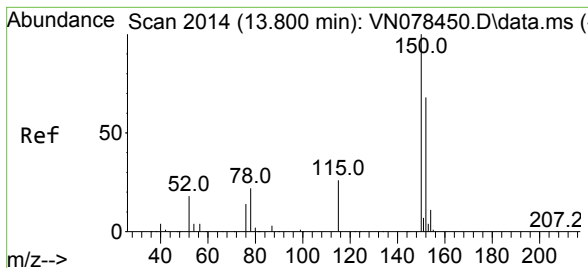
Tgt Ion:	95	Resp:	511455
Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	143.8
176	71.3	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. -0.000 min
 Lab File: VN078688.D
 Acq: 28 Jul 2023 16:28

Tgt Ion:	117	Resp:	1128440
Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.0	66.0
119	32.4	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

TB-20230727

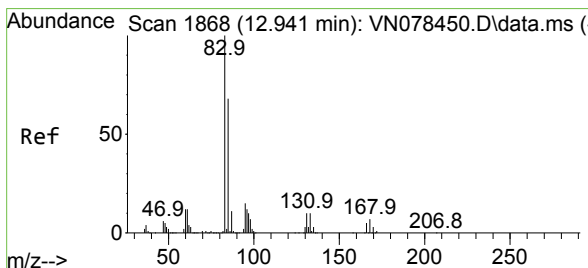
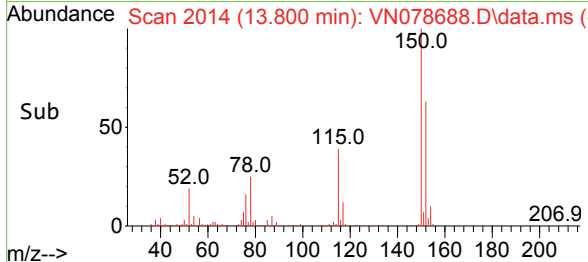
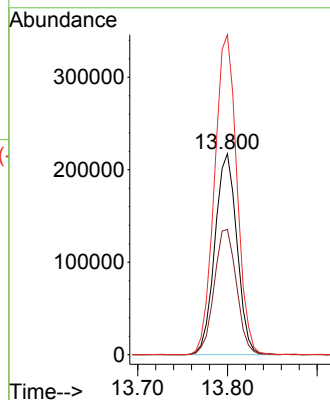
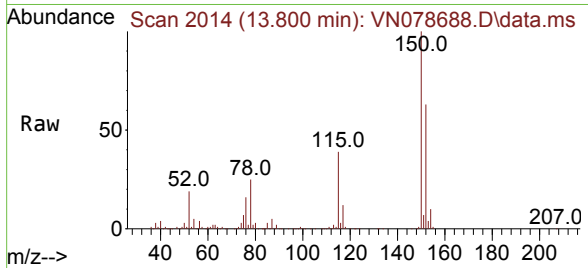
Tgt Ion:152 Resp: 371253

Ion Ratio Lower Upper

152 100

115 63.3 32.3 96.8

150 161.1 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1870

Delta R.T. 0.012 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

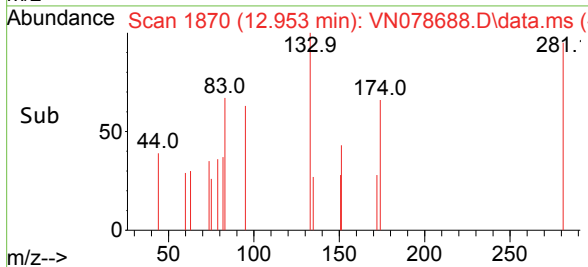
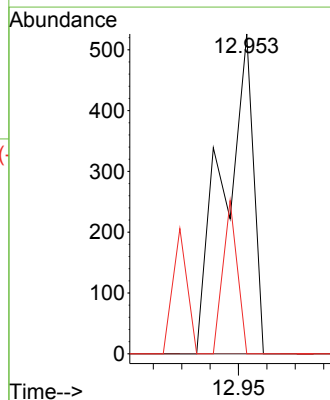
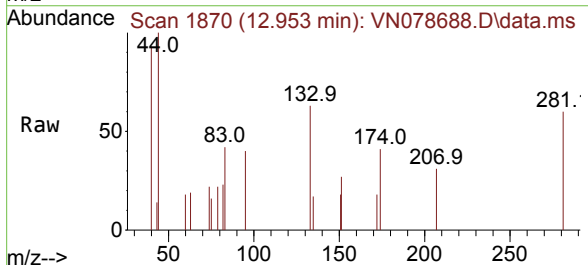
Tgt Ion: 83 Resp: 384

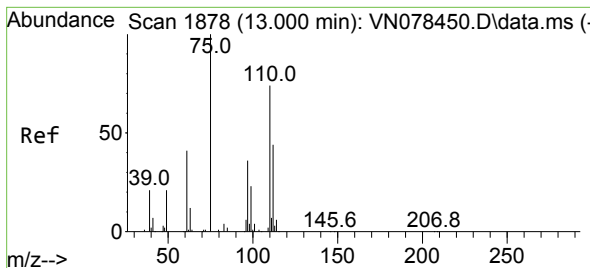
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 23.2 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 27.659 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

Instrument :

MSVOA_N

ClientSampleId :

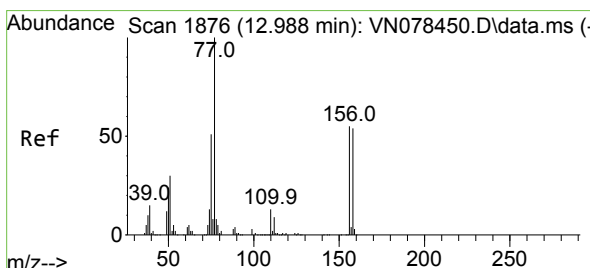
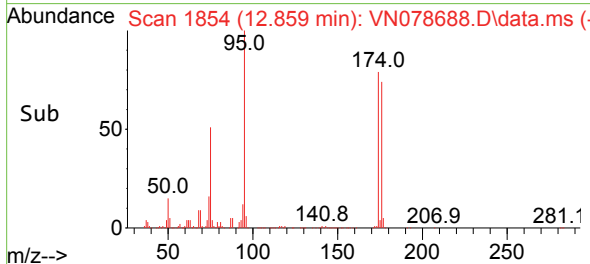
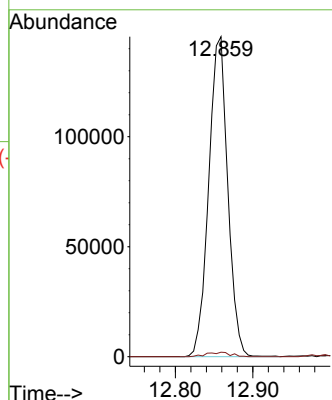
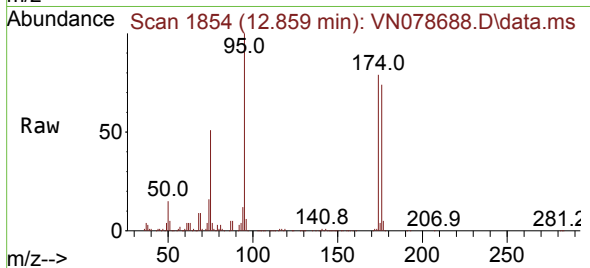
TB-20230727

Tgt Ion: 75 Resp: 248200

Ion Ratio Lower Upper

75 100

77 1.7 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN078688.D

Acq: 28 Jul 2023 16:28

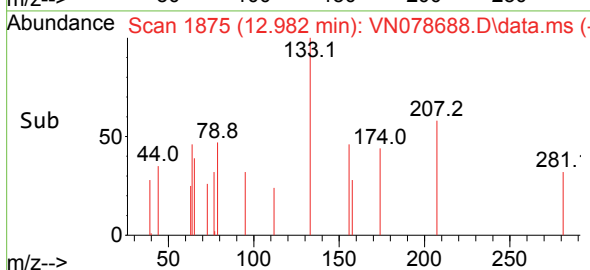
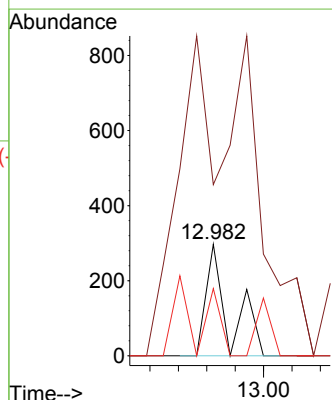
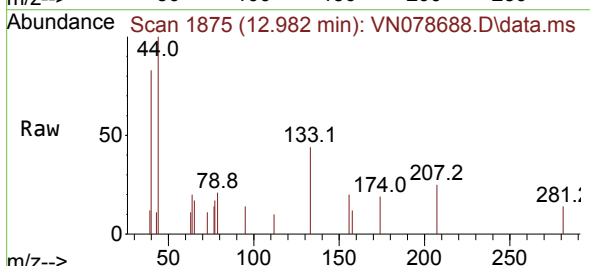
Tgt Ion:156 Resp: 167

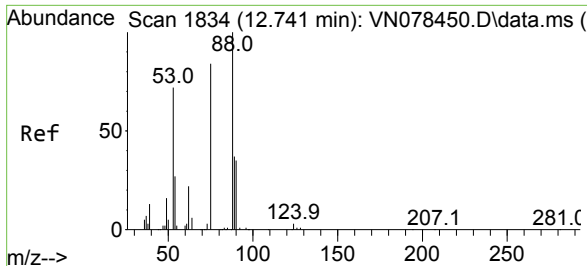
Ion Ratio Lower Upper

156 100

77 913.2 107.7 323.3#

158 82.6 48.4 145.3

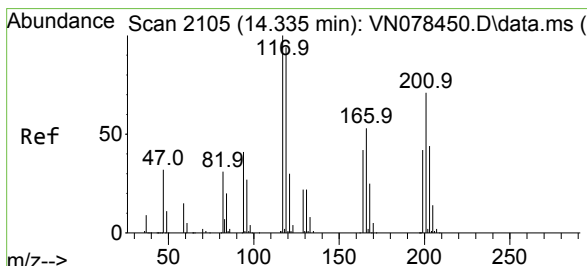
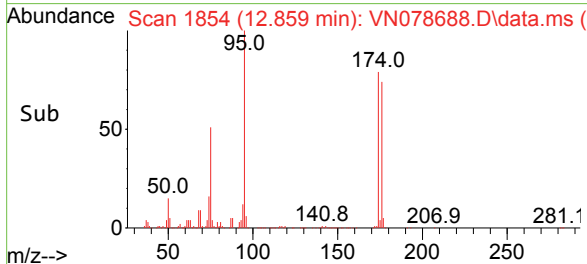
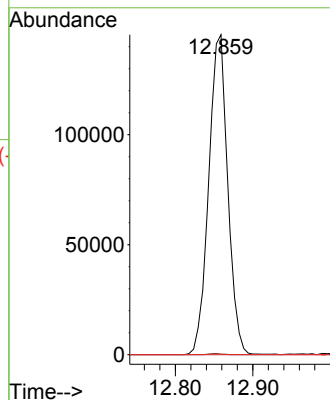
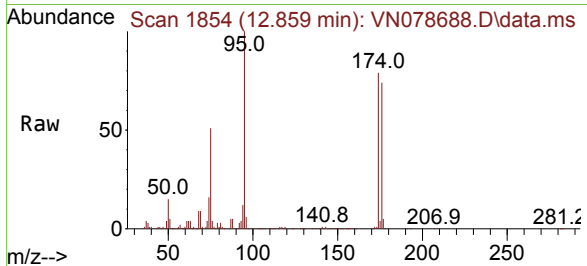




#81
trans-1,4-Dichloro-2-butene
Concen: 72.682 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

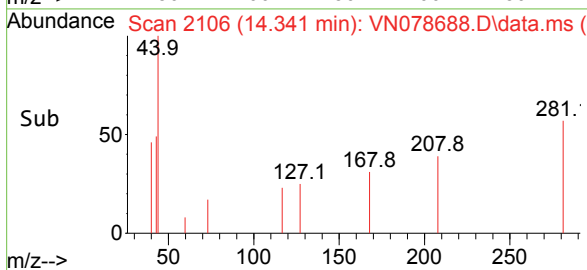
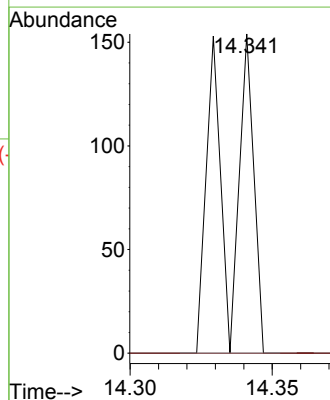
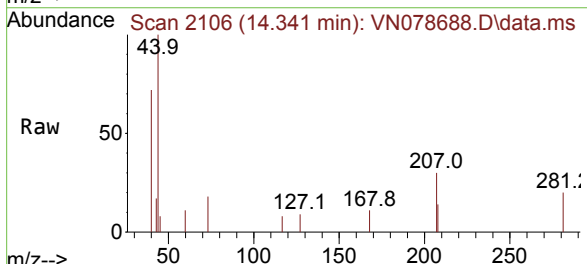
Instrument :
MSVOA_N
ClientSampleId :
TB-20230727

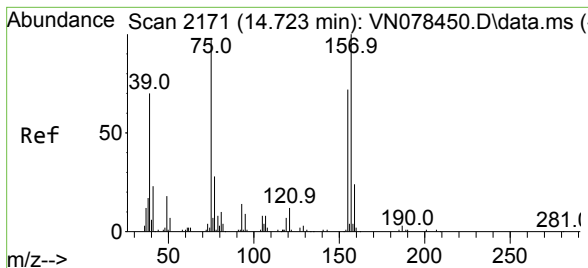
Tgt Ion: 75 Resp: 248200
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

Tgt Ion: 117 Resp: 108
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

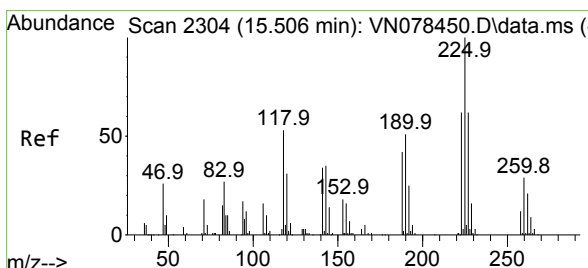
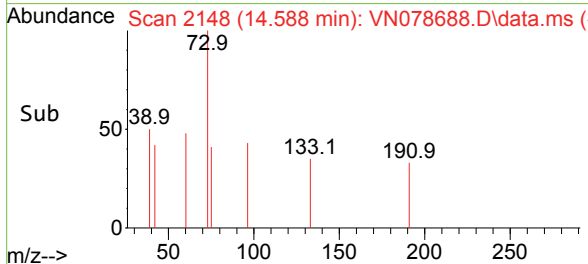
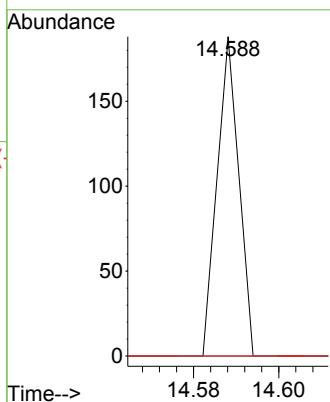
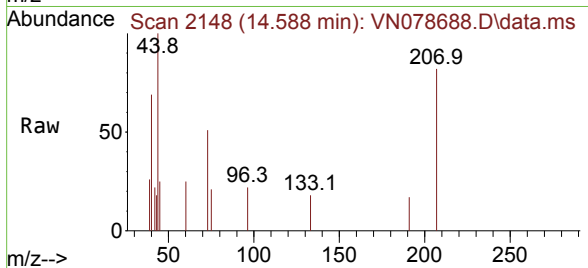




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.588 min Scan# 2171
Delta R.T. -0.135 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

Instrument :
MSVOA_N
ClientSampleId :
TB-20230727

Tgt Ion: 75 Resp: 66
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078688.D
Acq: 28 Jul 2023 16:28

Tgt Ion: 225 Resp: 764
Ion Ratio Lower Upper
225 100
223 56.8 31.3 93.8
227 34.6 31.9 95.9

