

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072823\
 Data File : VN078691.D
 Acq On : 28 Jul 2023 17:42
 Operator : JC\MD
 Sample : 03834-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20230728

Quant Time: Jul 29 00:52:28 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	8.235	168	670519	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1206040	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	1073865	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	379554	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	436841	48.597	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.200%
35) Dibromofluoromethane	8.177	113	422346	51.588	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.180%
50) Toluene-d8	10.577	98	1441671	46.614	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.220%
62) 4-Bromofluorobenzene	12.853	95	490291	51.466	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	102.940%

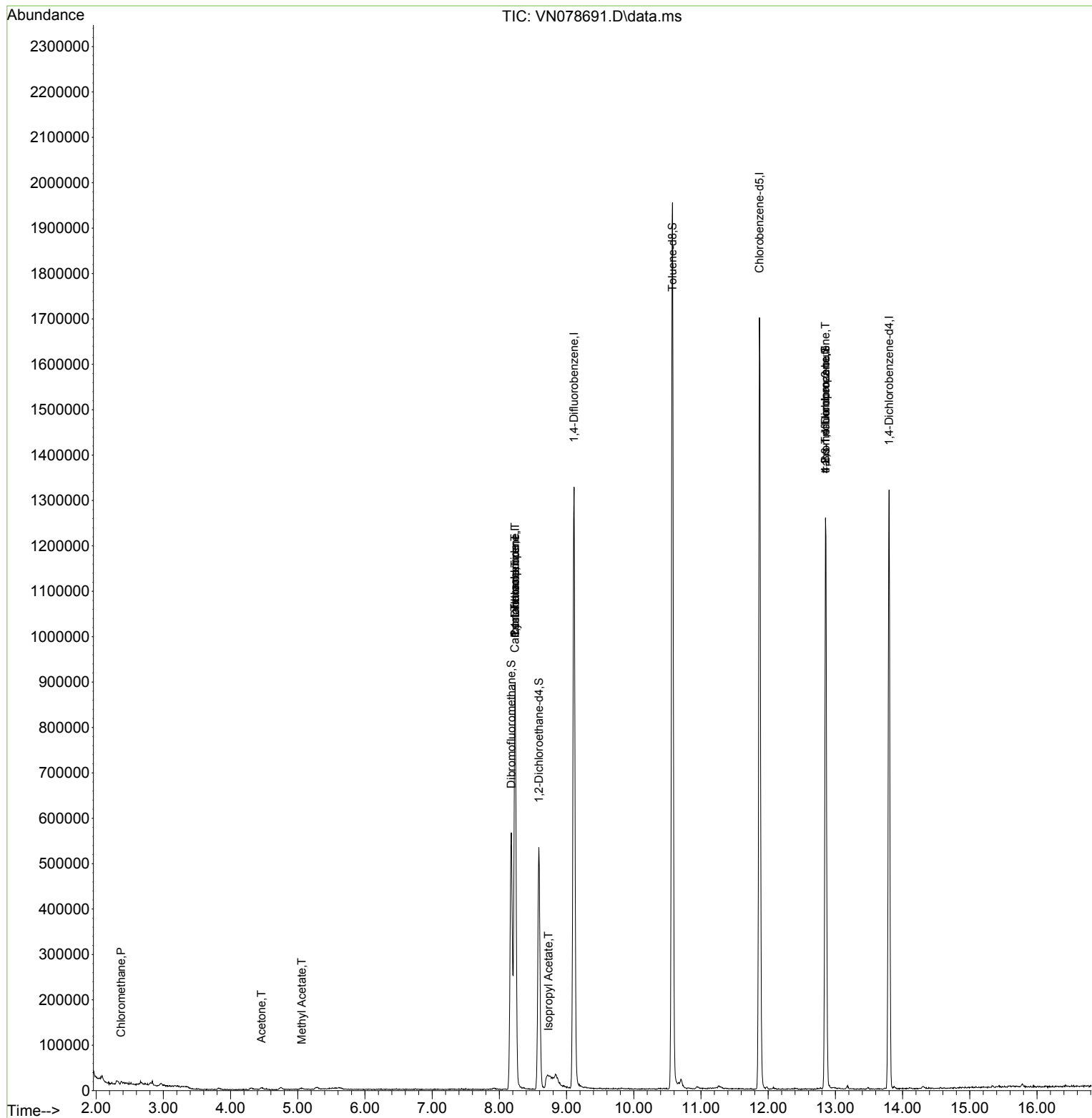
Target Compounds				Qvalue		
3) Chloromethane	2.371	50	3446	0.386	ug/l	97
5) Bromomethane	2.965	94	5290	Below Cal		91
6) Chloroethane	3.101	64	1397	Below Cal	#	43
16) Acetone	4.459	43	6109	2.182	ug/l #	67
18) Methyl Acetate	5.059	43	5313	0.448	ug/l #	55
20) Methylene Chloride	5.295	84	4590	Below Cal	#	76
31) Cyclohexane	8.235	56	12855	1.058	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	53693	4.542	ug/l #	48
38) Carbon Tetrachloride	8.230	117	70125	5.458	ug/l #	17
43) Isopropyl Acetate	8.730	43	37251	2.296	ug/l #	49
75) 1,1,2,2-Tetrachloroethane	12.959	83	390	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	236538	25.783	ug/l #	1
77) Bromobenzene	12.976	156	68	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	236538	67.752	ug/l #	15
90) Hexachloroethane	14.323	117	65	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.753	75	74	Below Cal	#	4
94) Hexachlorobutadiene	15.506	225	55	Below Cal	#	34

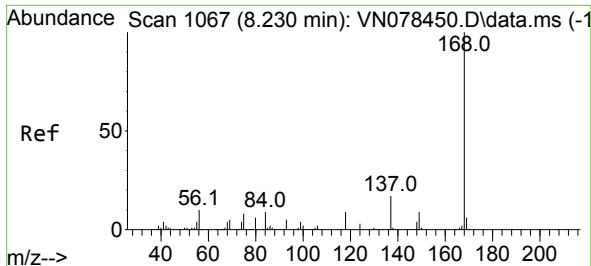
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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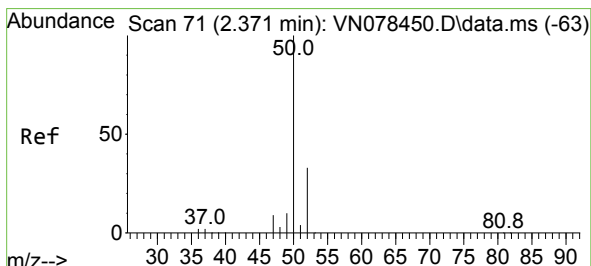
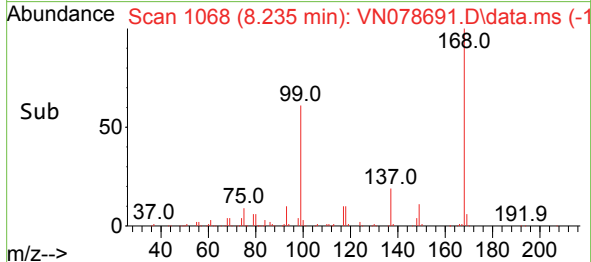
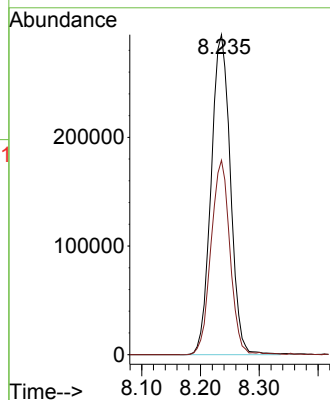
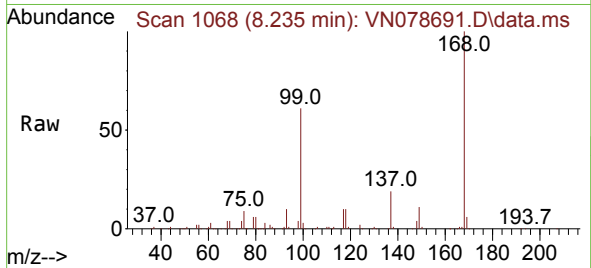




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.005 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

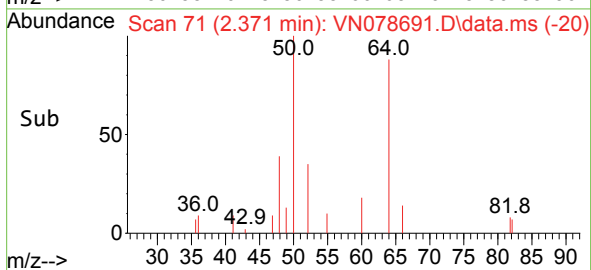
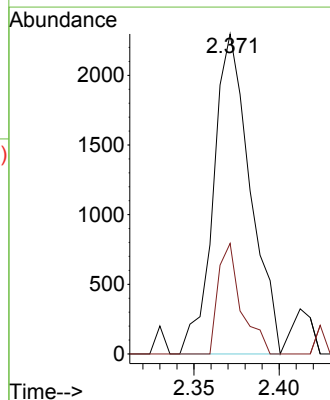
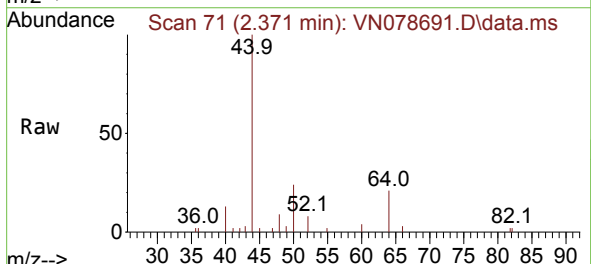
Instrument :
MSVOA_N
ClientSampleId :
TB-20230728

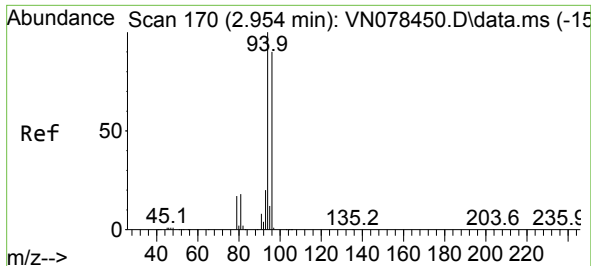
Tgt Ion:168 Resp: 670519
Ion Ratio Lower Upper
168 100
99 60.8 53.0 79.6



#3
Chloromethane
Concen: 0.386 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

Tgt Ion: 50 Resp: 3446
Ion Ratio Lower Upper
50 100
52 34.6 26.5 39.7

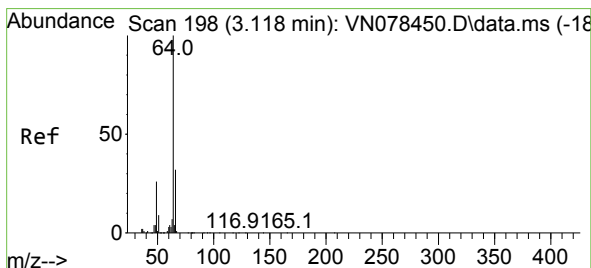
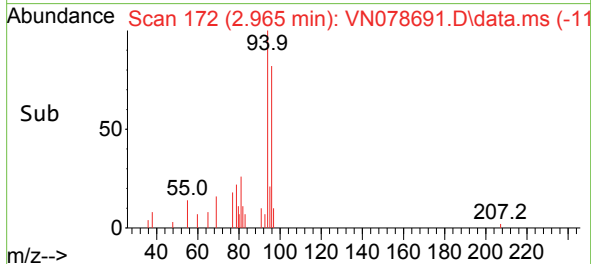
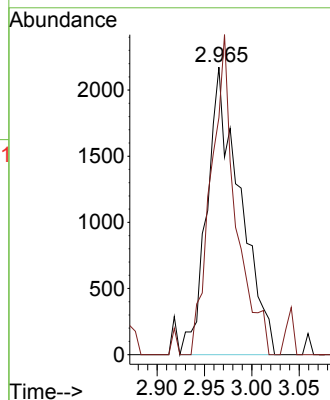
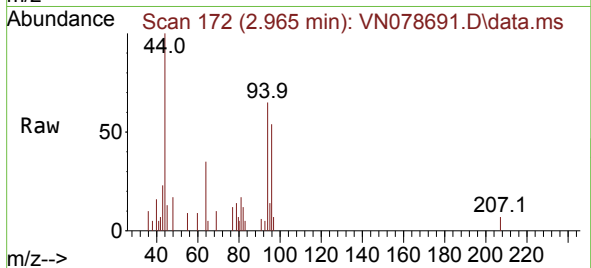




#5
Bromomethane
Concen: Below Cal
RT: 2.965 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

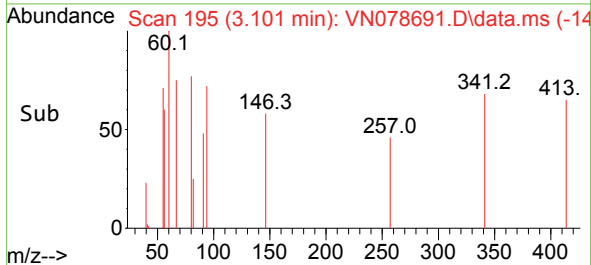
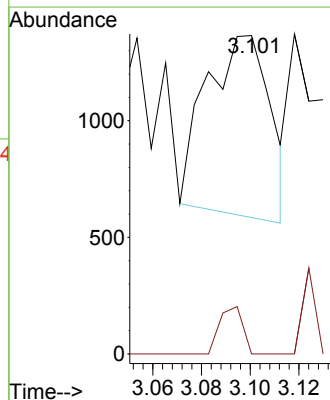
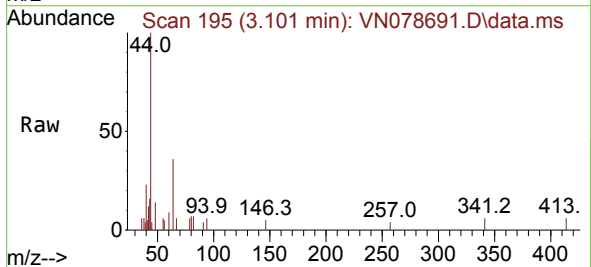
Instrument :
MSVOA_N
ClientSampleId :
TB-20230728

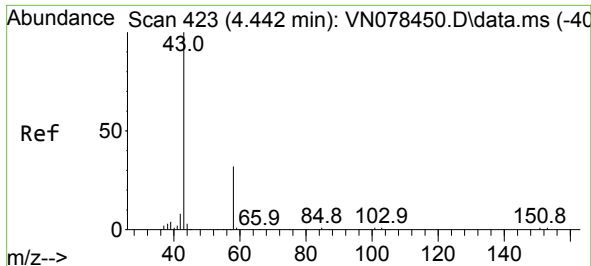
Tgt Ion: 94 Resp: 5290
Ion Ratio Lower Upper
94 100
96 82.5 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.101 min Scan# 195
Delta R.T. -0.017 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

Tgt Ion: 64 Resp: 1397
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#16

Acetone

Concen: 2.182 ug/l

RT: 4.459 min Scan# 41

Delta R.T. 0.017 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

Instrument :

MSVOA_N

ClientSampleId :

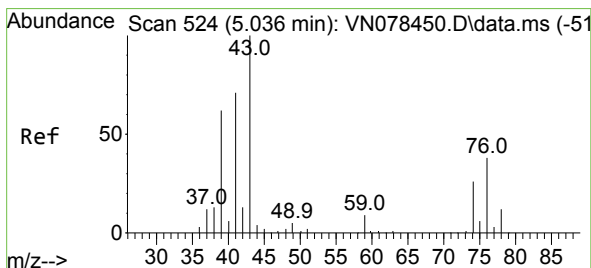
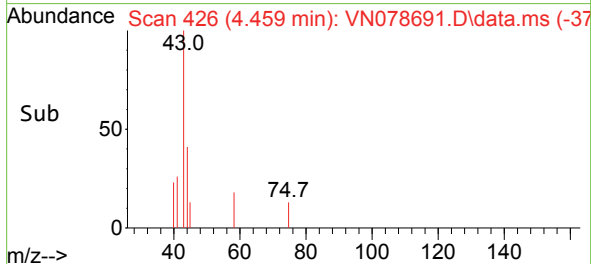
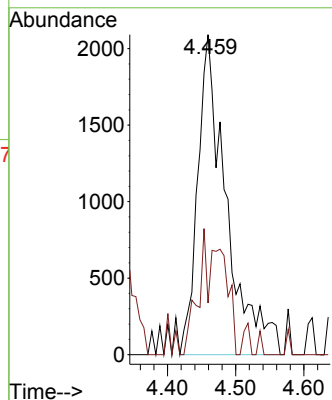
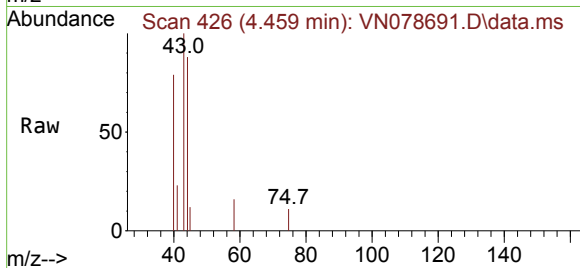
TB-20230728

Tgt Ion: 43 Resp: 6109

Ion Ratio Lower Upper

43 100

58 16.1 28.0 42.0#



#18

Methyl Acetate

Concen: 0.448 ug/l

RT: 5.059 min Scan# 528

Delta R.T. 0.023 min

Lab File: VN078691.D

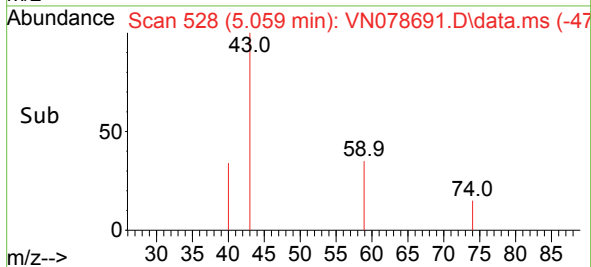
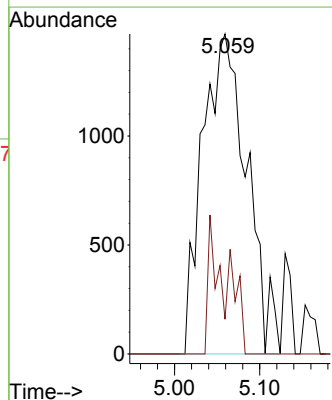
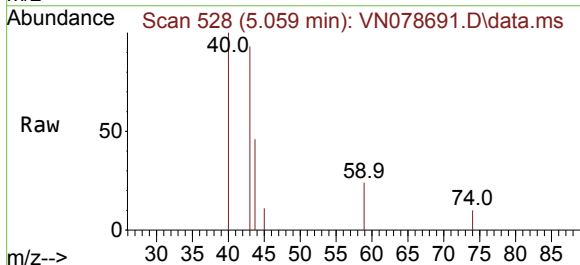
Acq: 28 Jul 2023 17:42

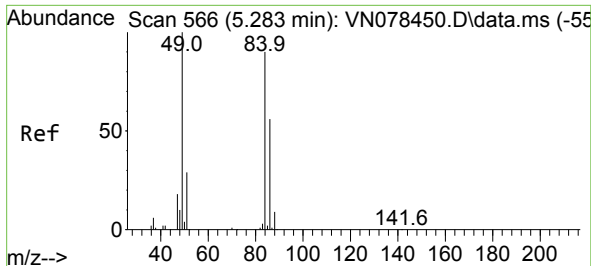
Tgt Ion: 43 Resp: 5313

Ion Ratio Lower Upper

43 100

74 7.2 26.2 39.4#

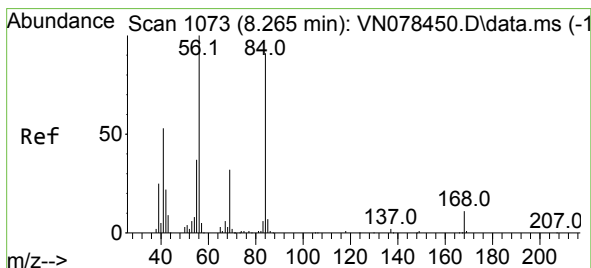
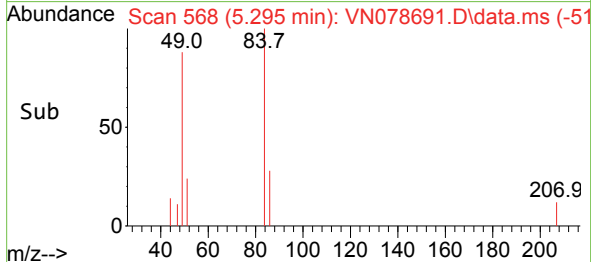
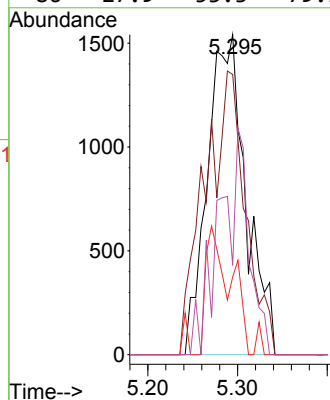
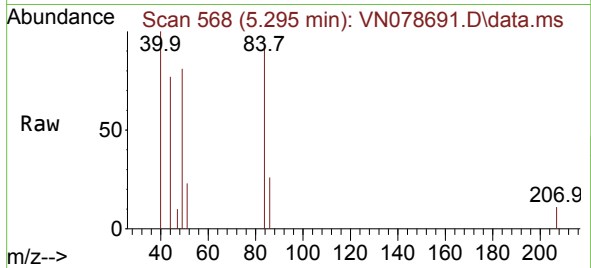




#20
Methylene Chloride
Concen: Below Cal
RT: 5.295 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

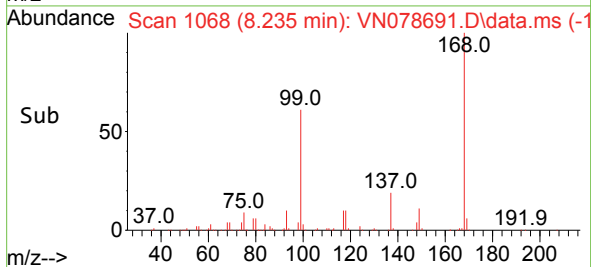
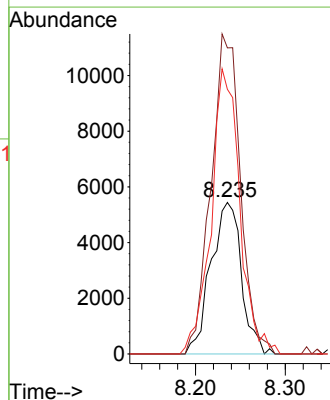
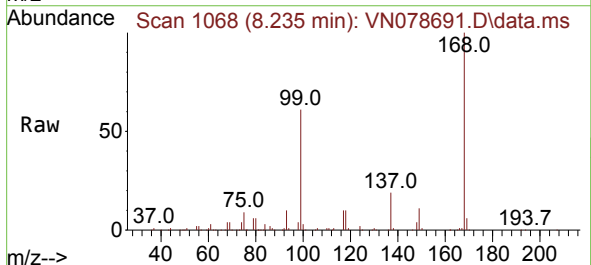
Instrument :
MSVOA_N
ClientSampleId :
TB-20230728

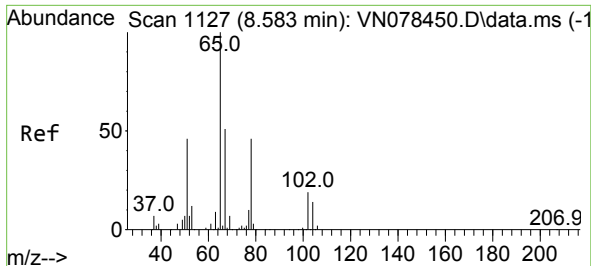
Tgt Ion:	84	Resp:	4590
Ion	Ratio	Lower	Upper
84	100		
49	87.5	79.7	119.5
51	24.3	25.2	37.8#
86	27.9	53.3	79.9#



#31
Cyclohexane
Concen: 1.058 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

Tgt Ion:	56	Resp:	12855
Ion	Ratio	Lower	Upper
56	100		
69	202.0	26.8	40.2#
84	174.7	81.8	122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.597 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.005 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

Instrument :

MSVOA_N

ClientSampleId :

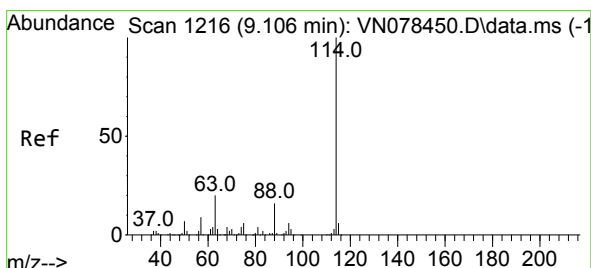
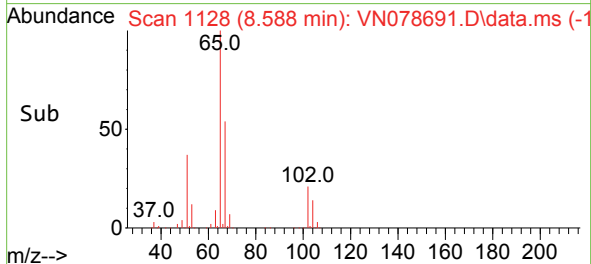
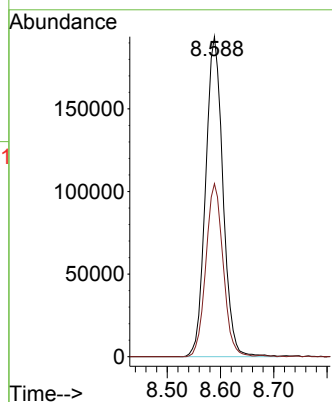
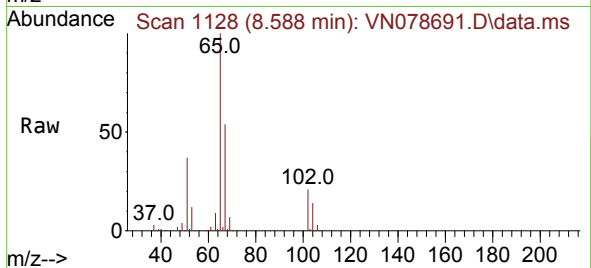
TB-20230728

Tgt Ion: 65 Resp: 436841

Ion Ratio Lower Upper

65 100

67 53.9 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: VN078691.D

Acq: 28 Jul 2023 17:42

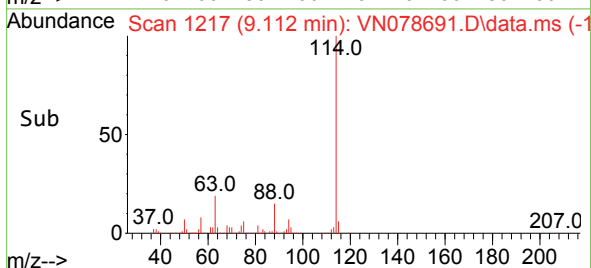
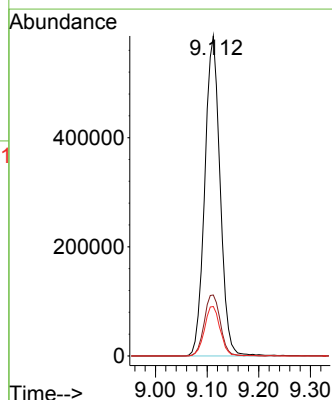
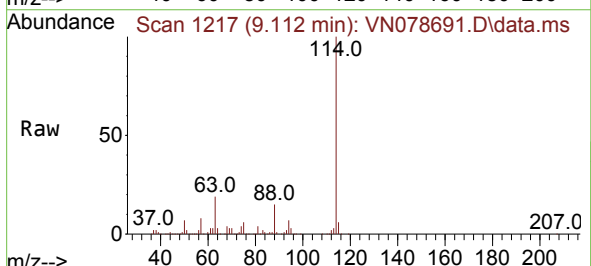
Tgt Ion: 114 Resp: 1206040

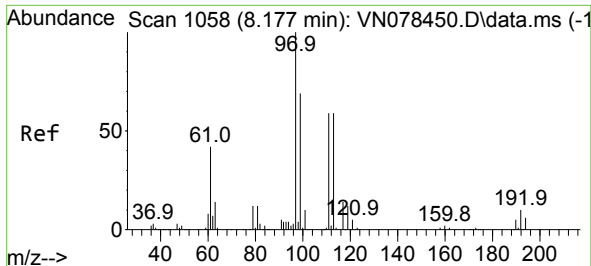
Ion Ratio Lower Upper

114 100

63 19.0 0.0 36.4

88 15.5 0.0 30.6

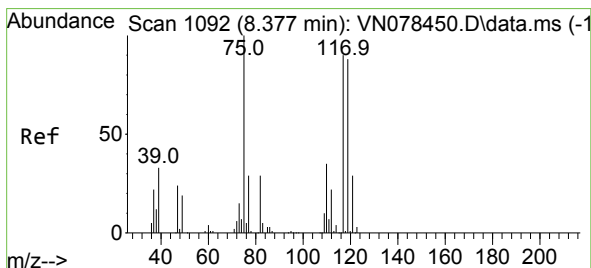
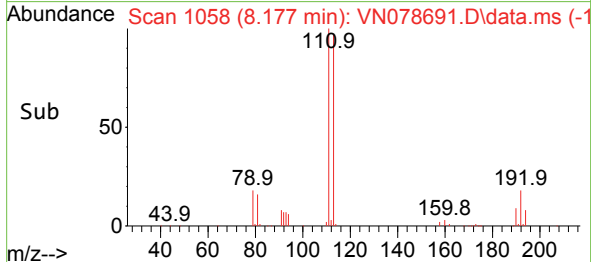
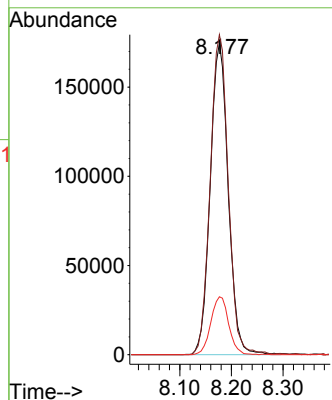
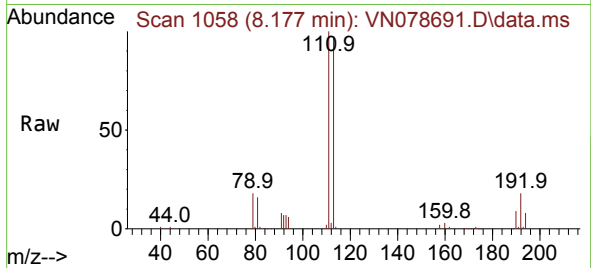




#35
Dibromofluoromethane
Concen: 51.588 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

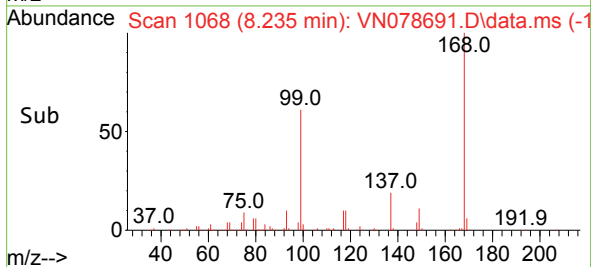
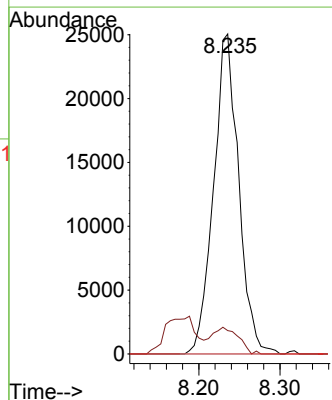
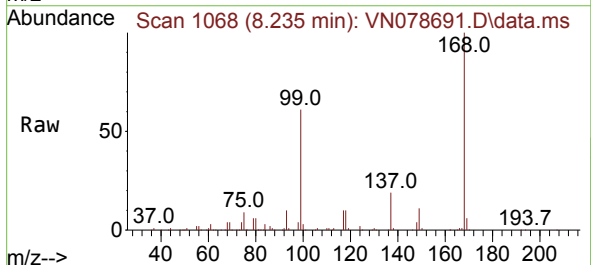
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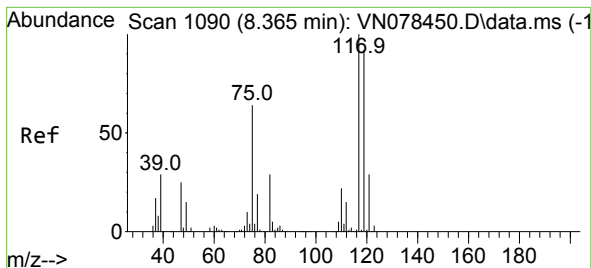
Tgt Ion:113 Resp: 422346
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 18.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.542 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

Tgt Ion: 75 Resp: 53693
Ion Ratio Lower Upper
75 100
110 8.9 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.458 ug/l

RT: 8.230 min Scan# 1105

Delta R.T. -0.135 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

Instrument :

MSVOA_N

ClientSampleId :

TB-20230728

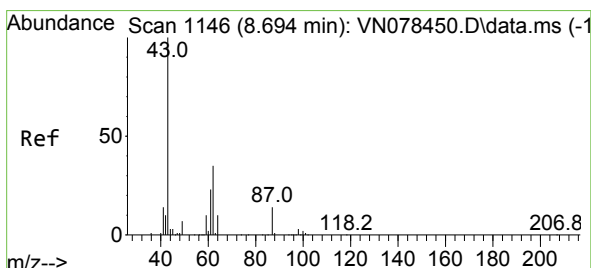
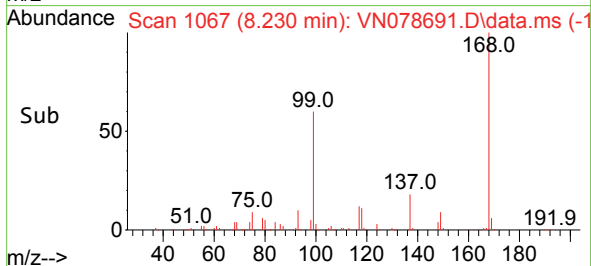
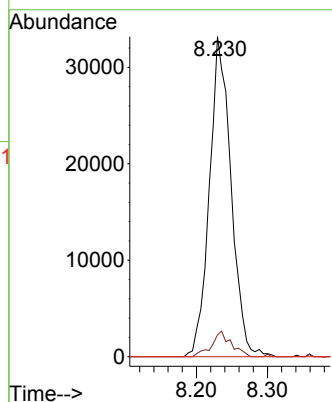
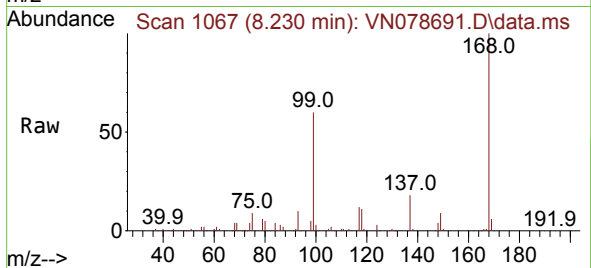
Tgt Ion:117 Resp: 70125

Ion Ratio Lower Upper

117 100

119 6.8 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 2.296 ug/l

RT: 8.730 min Scan# 1152

Delta R.T. 0.036 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

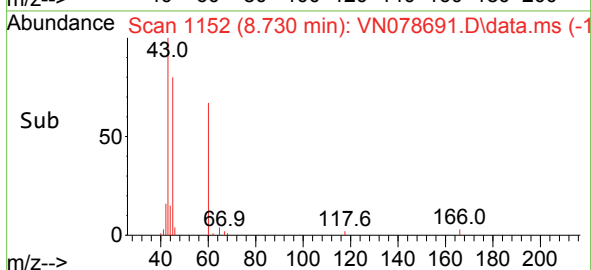
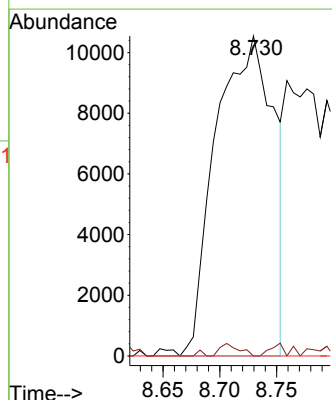
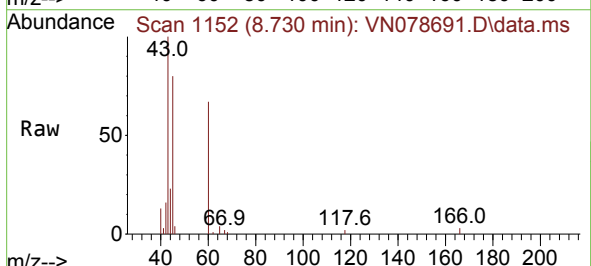
Tgt Ion: 43 Resp: 37251

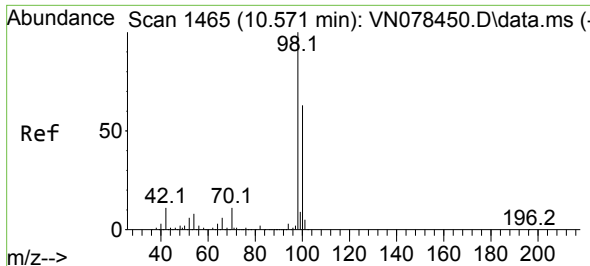
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

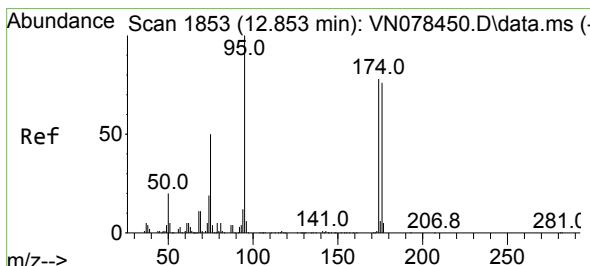
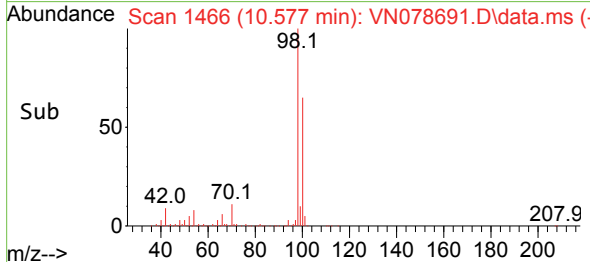
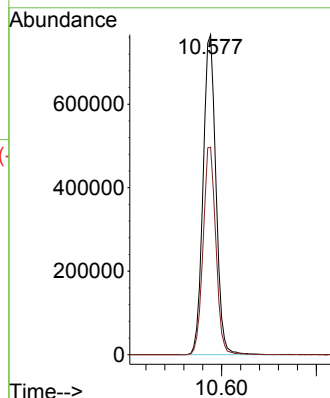
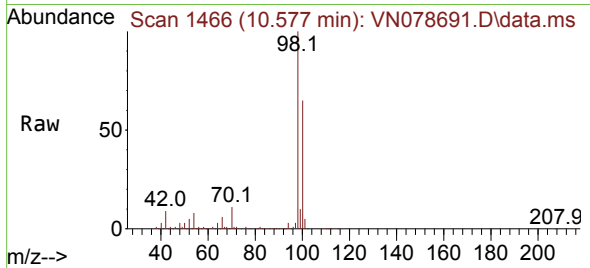




#50
Toluene-d8
Concen: 46.614 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

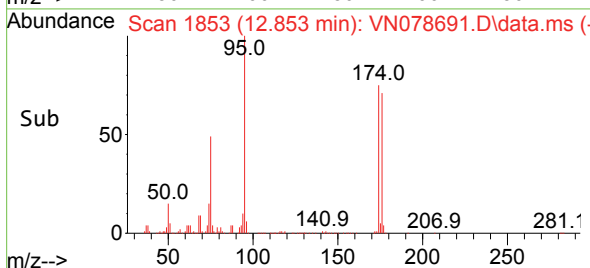
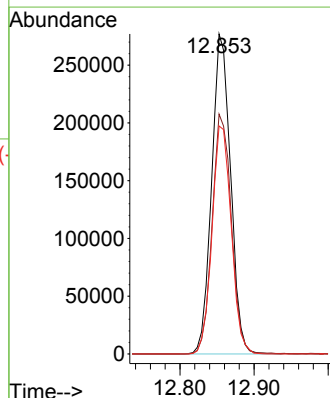
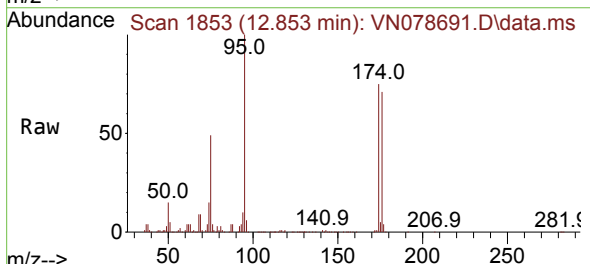
Instrument :
MSVOA_N
ClientSampleId :
TB-20230728

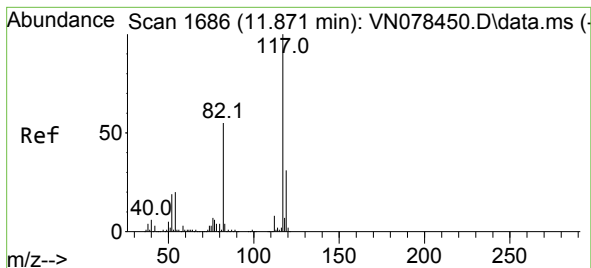
Tgt Ion: 98 Resp: 1441671
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 51.466 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

Tgt Ion: 95 Resp: 490291
Ion Ratio Lower Upper
95 100
174 76.3 0.0 143.8
176 72.4 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

Instrument :

MSVOA_N

ClientSampleId :

TB-20230728

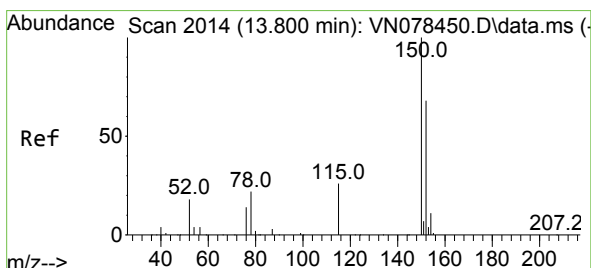
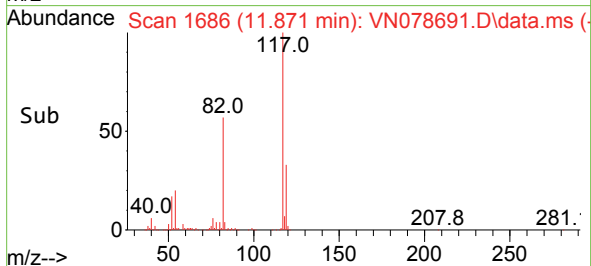
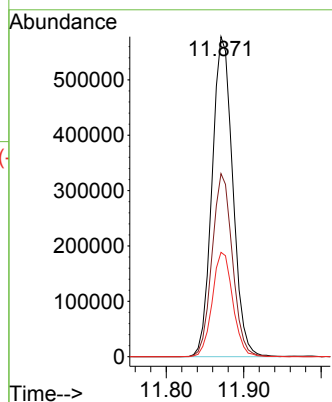
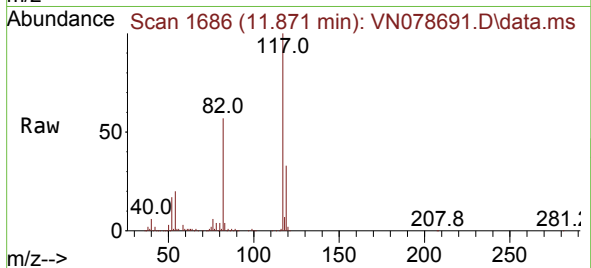
Tgt Ion:117 Resp: 1073865

Ion Ratio Lower Upper

117 100

82 57.2 44.0 66.0

119 32.6 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

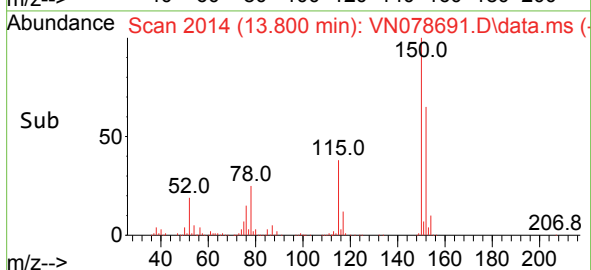
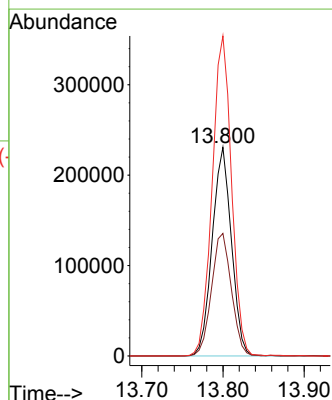
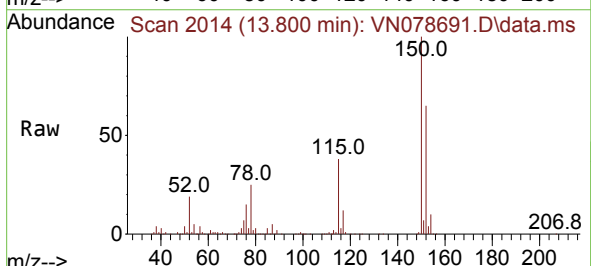
Tgt Ion:152 Resp: 379554

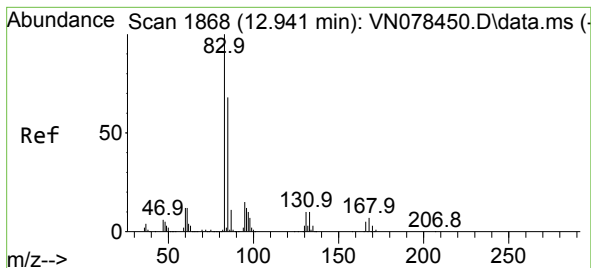
Ion Ratio Lower Upper

152 100

115 60.8 32.3 96.8

150 154.2 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.959 min Scan# 1853

Delta R.T. 0.018 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

Instrument :

MSVOA_N

ClientSampleId :

TB-20230728

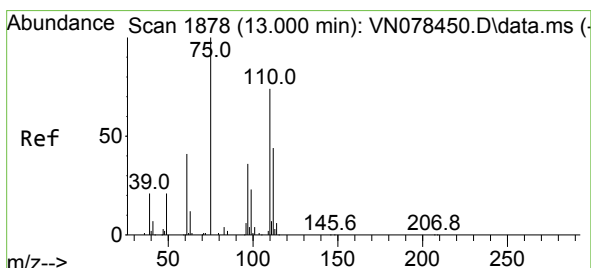
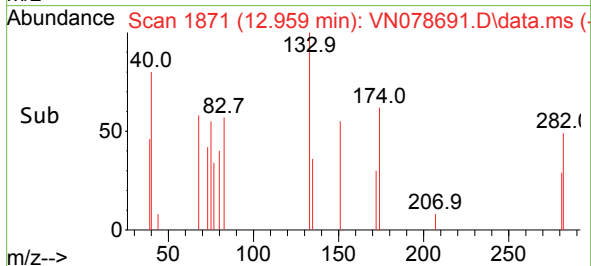
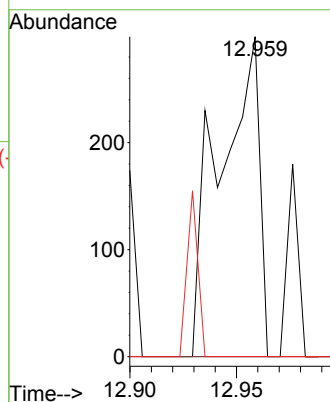
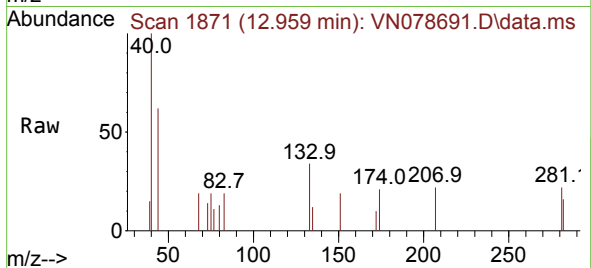
Tgt Ion: 83 Resp: 390

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: 25.783 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078691.D

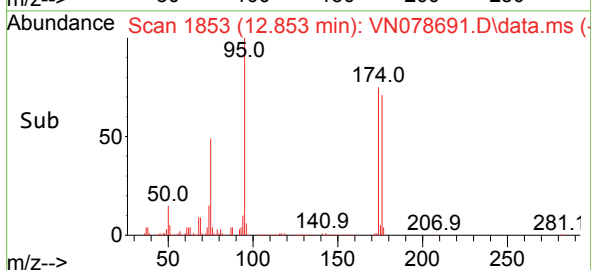
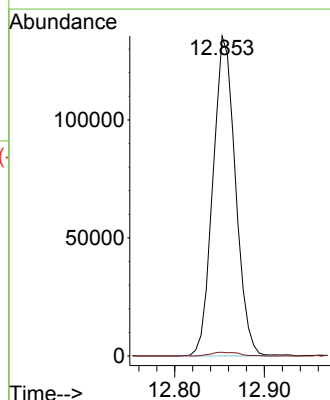
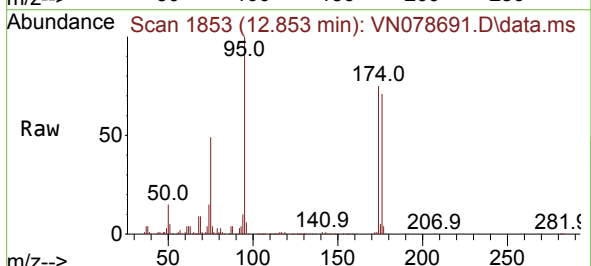
Acq: 28 Jul 2023 17:42

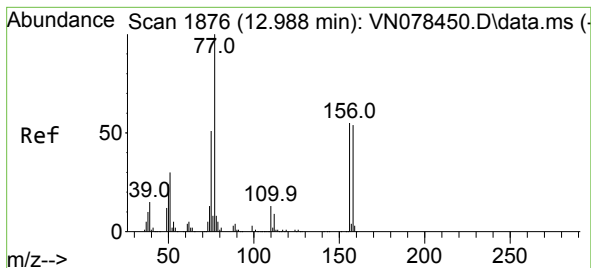
Tgt Ion: 75 Resp: 236538

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#





#77

Bromobenzene

Concen: Below Cal

RT: 12.976 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

Instrument :

MSVOA_N

ClientSampleId :

TB-20230728

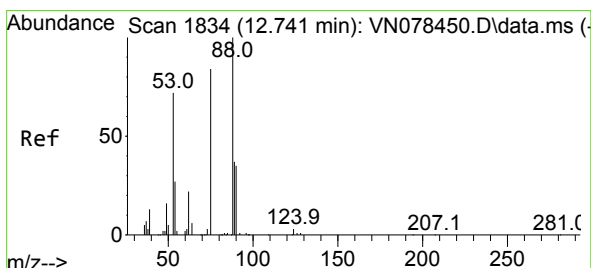
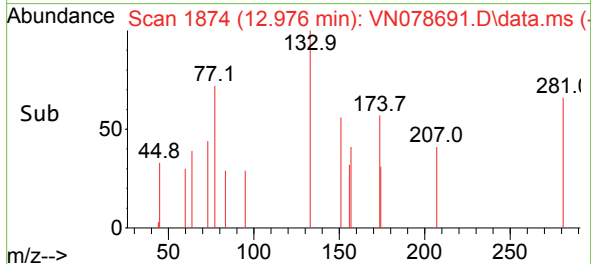
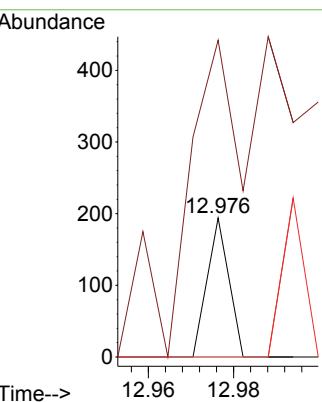
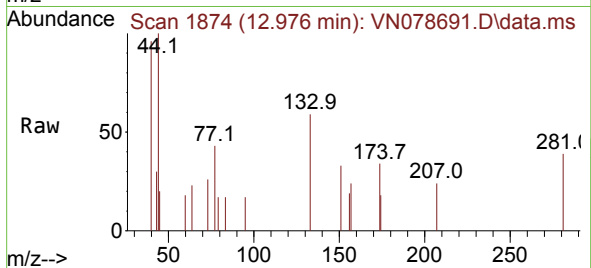
Tgt Ion:156 Resp: 68

Ion Ratio Lower Upper

156 100

77 600.0 107.7 323.3#

158 114.7 48.4 145.3



#81

trans-1,4-Dichloro-2-butene

Concen: 67.752 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

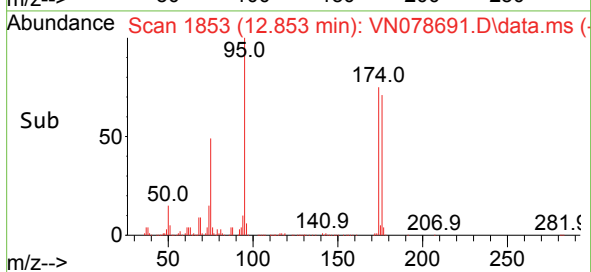
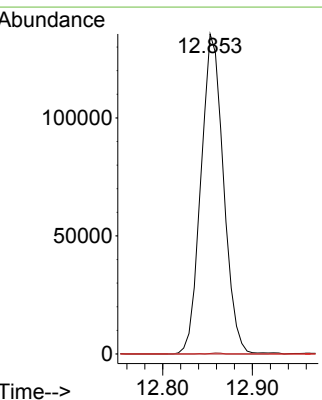
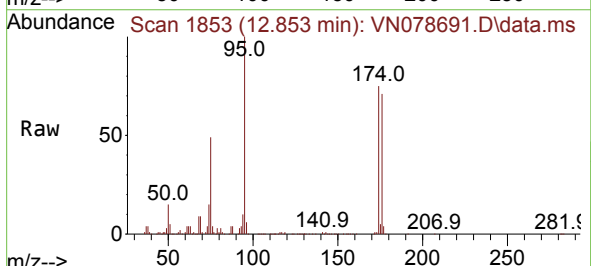
Tgt Ion: 75 Resp: 236538

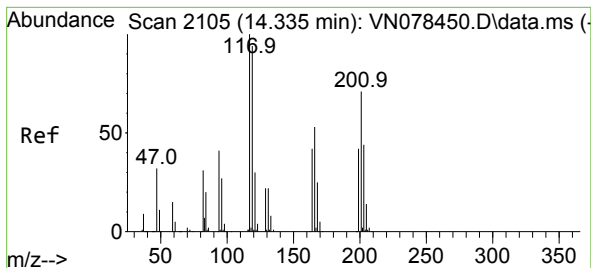
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.0 38.8 58.2#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.323 min Scan# 2105

Delta R.T. -0.012 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

Instrument :

MSVOA_N

ClientSampleId :

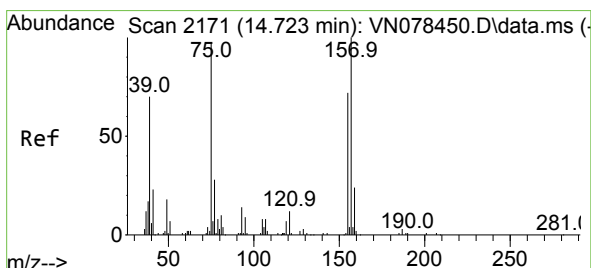
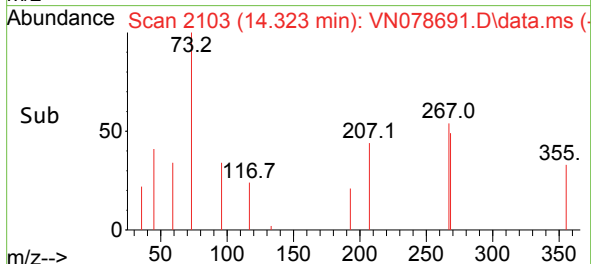
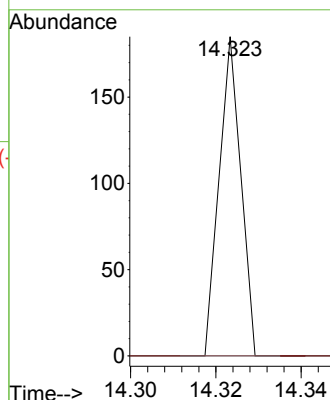
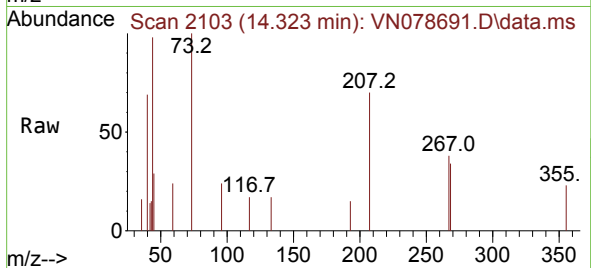
TB-20230728

Tgt Ion:117 Resp: 65

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.753 min Scan# 2176

Delta R.T. 0.030 min

Lab File: VN078691.D

Acq: 28 Jul 2023 17:42

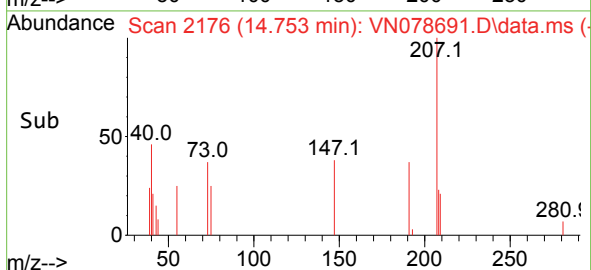
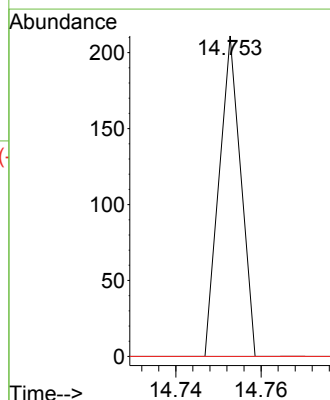
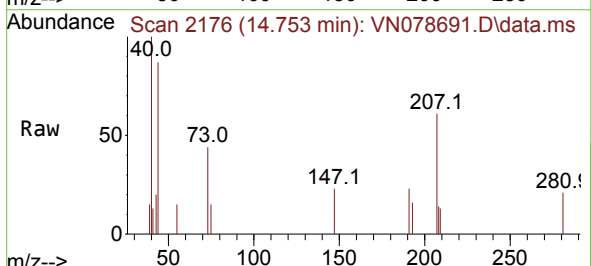
Tgt Ion: 75 Resp: 74

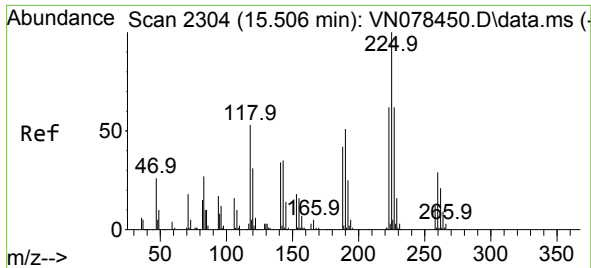
Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

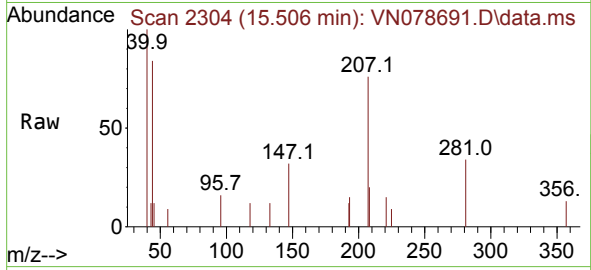
157 0.0 50.3 150.9#





#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078691.D
Acq: 28 Jul 2023 17:42

Instrument :
MSVOA_N
ClientSampleId :
TB-20230728



Tgt Ion:	225	Resp:	55
Ion	Ratio	Lower	Upper
225	100		
223	101.8	31.3	93.8#
227	0.0	31.9	95.9#

