

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061323\
 Data File : VN078183.D
 Acq On : 13 Jun 2023 14:00
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 14 02:19:04 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)

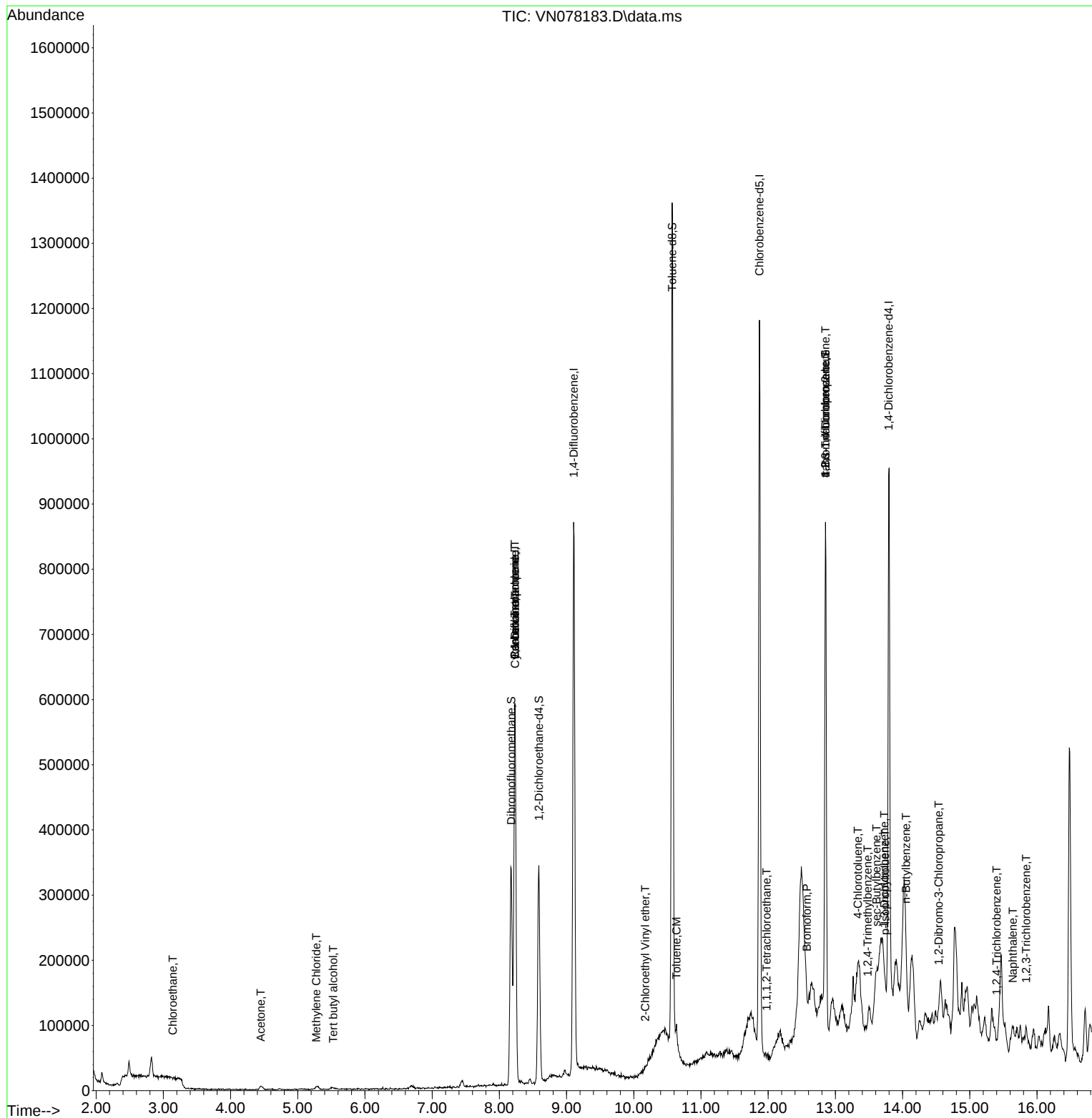
Internal Standards						
1) Pentafluorobenzene	8.230	168	423749	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	766762	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	679327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	216807	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	273438	48.397	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.800%
35) Dibromofluoromethane	8.177	113	243092	50.141	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.280%
50) Toluene-d8	10.571	98	946555	50.645	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.280%
62) 4-Bromofluorobenzene	12.853	95	283666	48.821	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1447	Below Cal		92
6) Chloroethane	3.142	64	1253	0.293	ug/l #	43
11) Tert butyl alcohol	5.530	59	1416	1.815	ug/l #	93
16) Acetone	4.448	43	11271	6.931	ug/l #	86
20) Methylene Chloride	5.277	84	2329	0.433	ug/l #	54
31) Cyclohexane	8.236	56	11194	1.545	ug/l #	46
36) 1,1-Dichloropropene	8.230	75	35342	5.082	ug/l #	40
38) Carbon Tetrachloride	8.230	117	47398	6.455	ug/l #	16
52) Toluene	10.635	92	13634	1.040	ug/l	91
58) 2-Chloroethyl Vinyl ether	10.171	63	842	0.289	ug/l #	42
66) 1,1,1,2-Tetrachloroethane	11.976	131	3755	0.702	ug/l #	9
71) Bromoform	12.576	173	1142	0.331	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	12.947	83	1084	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	148271	28.929	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	148271	88.878	ug/l #	16
82) 4-Chlorotoluene	13.335	91	6007	0.448	ug/l	77
84) 1,2,4-Trimethylbenzene	13.482	105	7971	0.495	ug/l	70
85) sec-Butylbenzene	13.612	105	27946	1.480	ug/l #	69
86) p-Isopropyltoluene	13.741	119	13516	0.882	ug/l #	60
87) 1,3-Dichlorobenzene	13.729	146	4239	0.527	ug/l #	33
89) n-Butylbenzene	14.053	91	9500	0.786	ug/l #	54
92) 1,2-Dibromo-3-Chloropr...	14.535	75	1084	1.067	ug/l	89
93) 1,2,4-Trichlorobenzene	15.400	180	711	0.254	ug/l #	1
95) Naphthalene	15.641	128	14597	1.548	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.841	180	680	0.217	ug/l #	1

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

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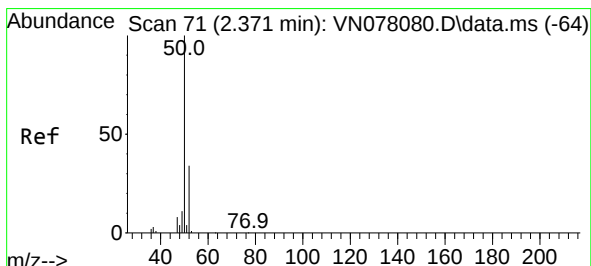
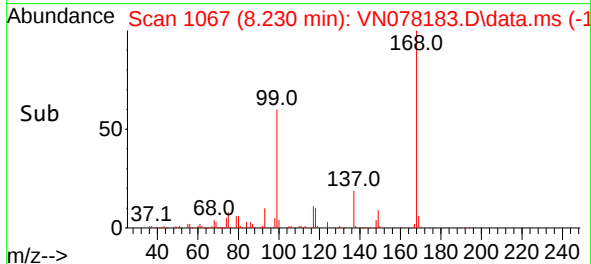
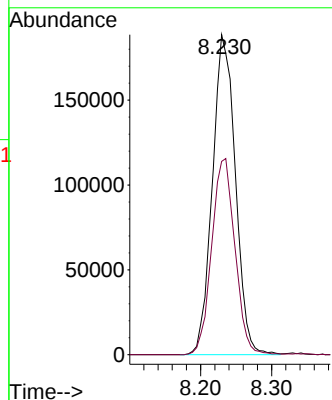
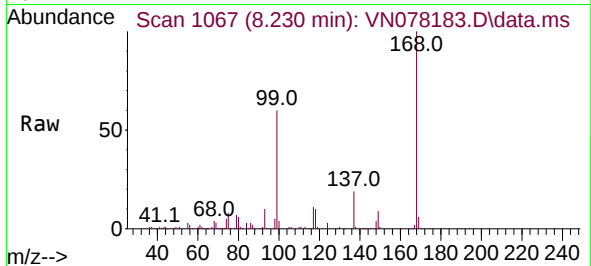




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.005 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

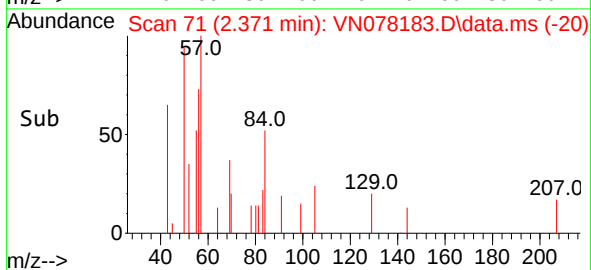
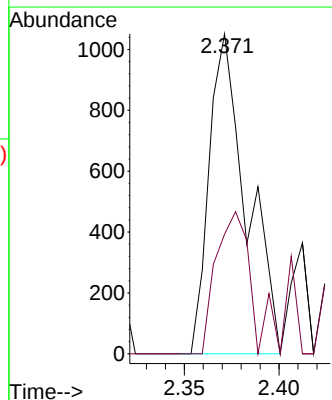
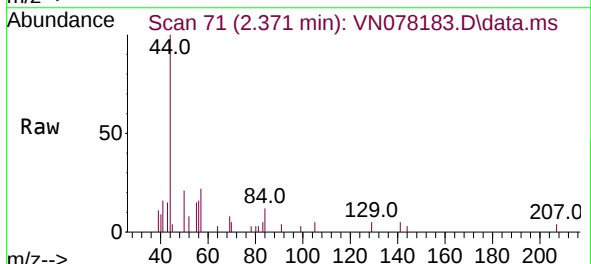
Instrument :
MSVOA_N
ClientSampleId :

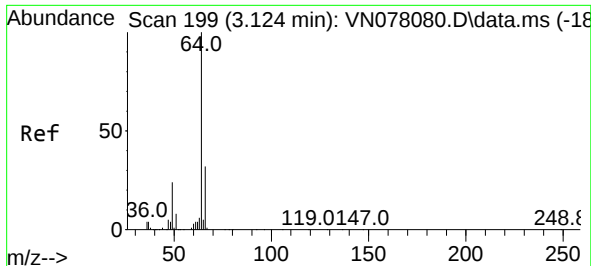
Tgt Ion:168 Resp: 423749
Ion Ratio Lower Upper
168 100
99 60.4 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Tgt Ion: 50 Resp: 1447
Ion Ratio Lower Upper
50 100
52 37.4 26.5 39.7

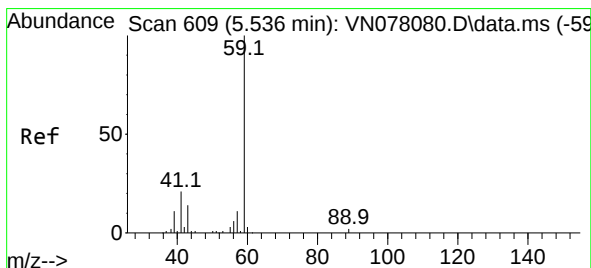
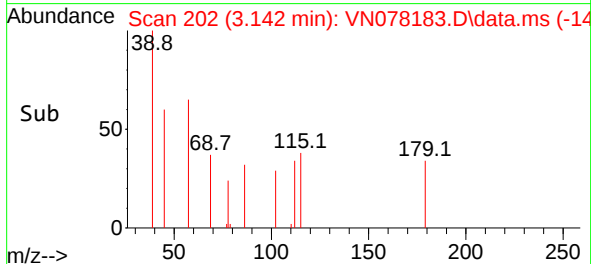
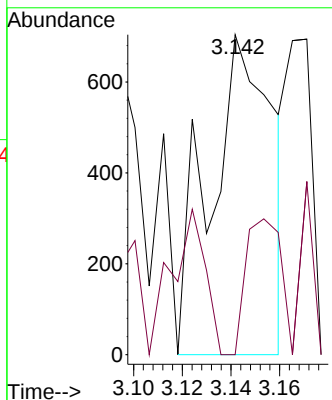
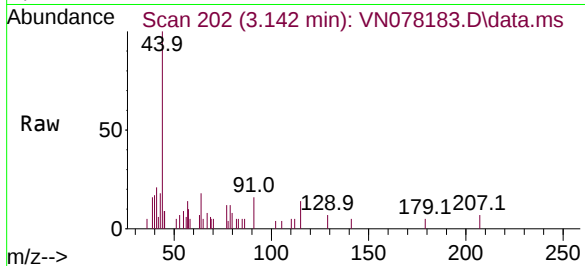




#6
Chloroethane
Concen: 0.293 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.018 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

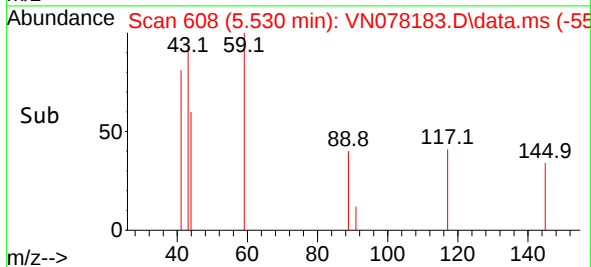
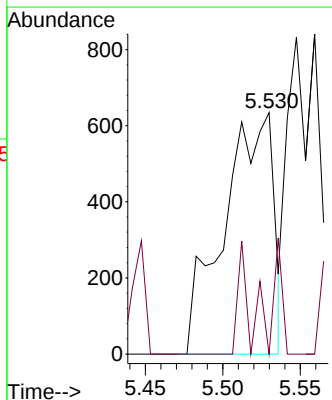
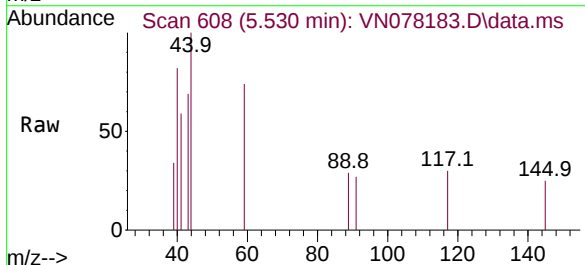
Instrument :
MSVOA_N
ClientSampleId :

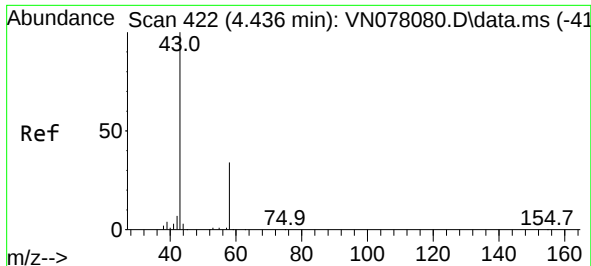
Tgt Ion: 64 Resp: 1253
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.815 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Tgt Ion: 59 Resp: 1416
Ion Ratio Lower Upper
59 100
57 7.6 8.2 12.4#





#16

Acetone

Concen: 6.931 ug/l

RT: 4.448 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

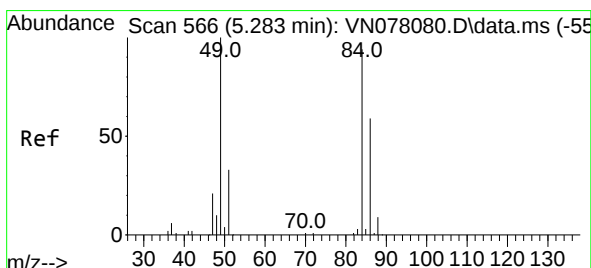
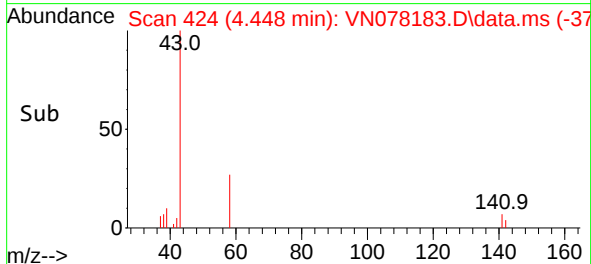
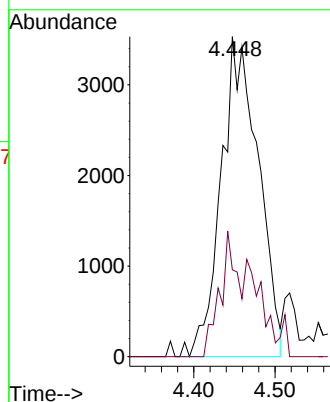
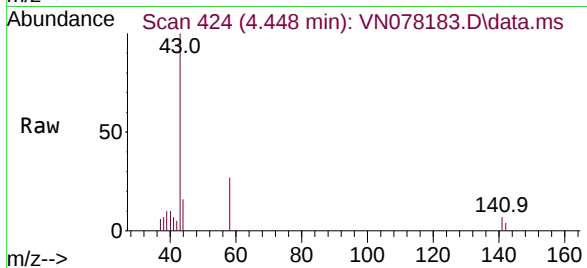
ClientSampleId :

Tgt Ion: 43 Resp: 11271

Ion Ratio Lower Upper

43 100

58 27.2 28.0 42.0#



#20

Methylene Chloride

Concen: 0.433 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.006 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Tgt Ion: 84 Resp: 2329

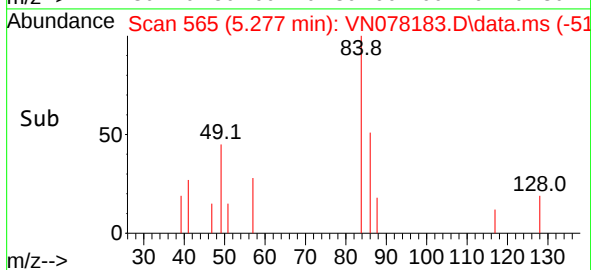
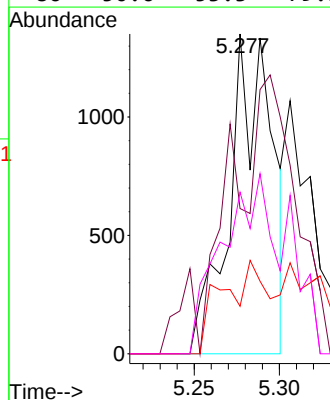
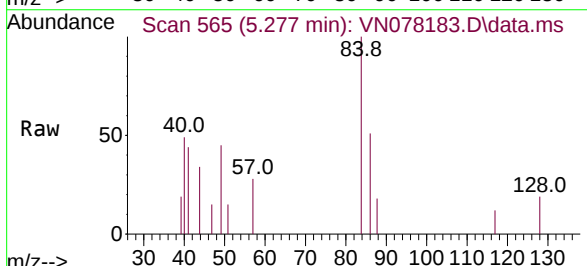
Ion Ratio Lower Upper

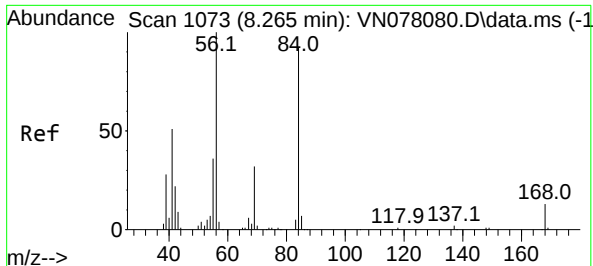
84 100

49 32.1 79.7 119.5#

51 14.9 25.2 37.8#

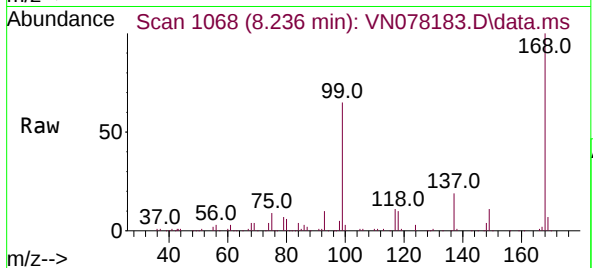
86 50.6 53.3 79.9#



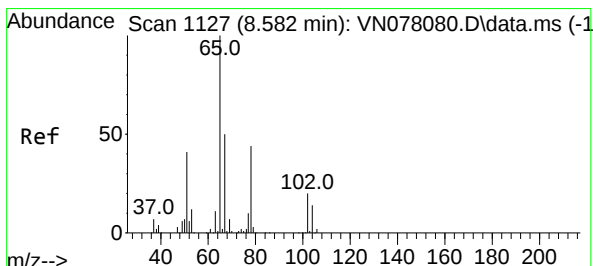
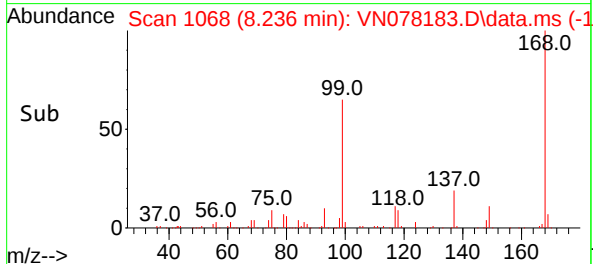
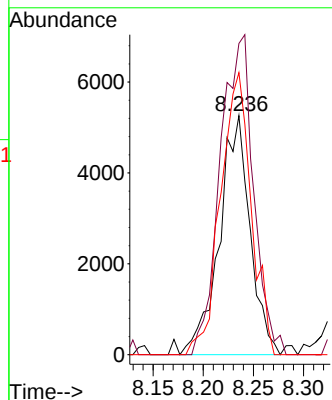


#31
Cyclohexane
Concen: 1.545 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Instrument :
MSVOA_N
ClientSampleId :

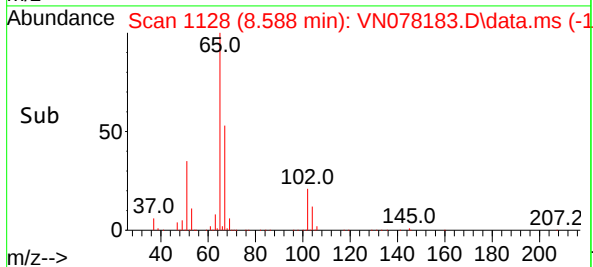
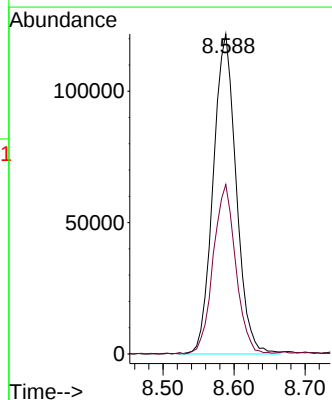
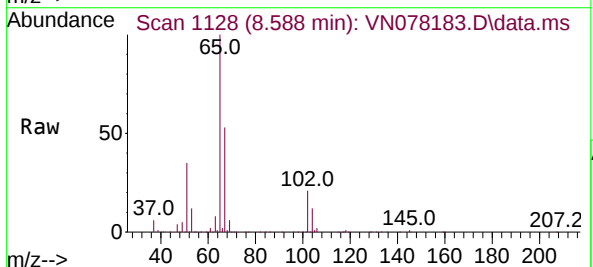


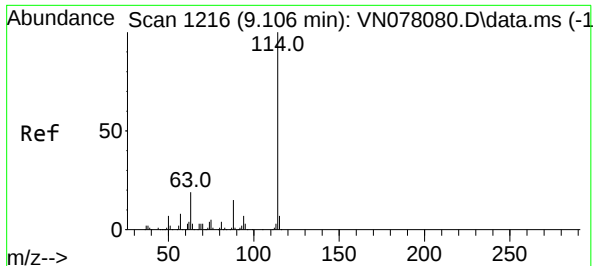
Tgt Ion: 56 Resp: 11194
Ion Ratio Lower Upper
56 100
69 130.2 26.8 40.2#
84 118.0 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 48.397 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Tgt Ion: 65 Resp: 273438
Ion Ratio Lower Upper
65 100
67 51.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

ClientSampleId :

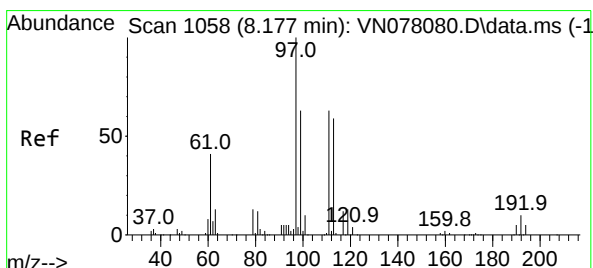
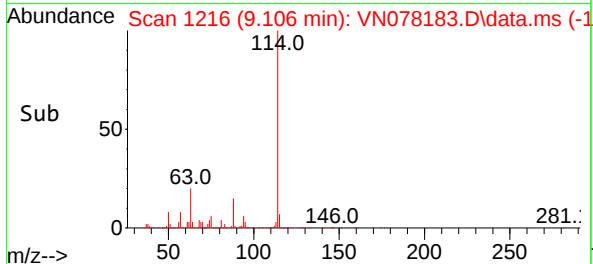
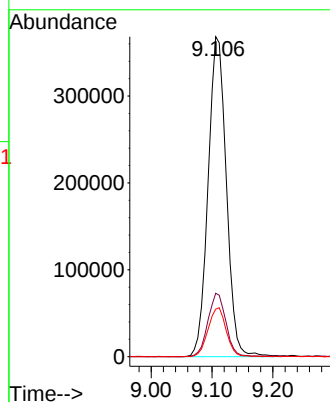
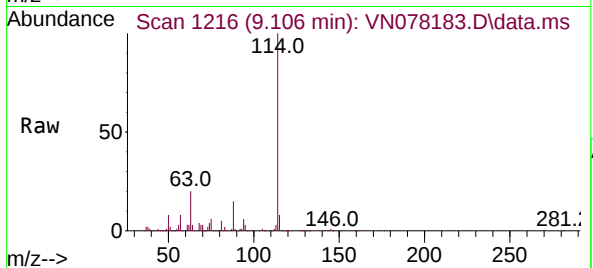
Tgt Ion:114 Resp: 766762

Ion Ratio Lower Upper

114 100

63 19.8 0.0 36.4

88 14.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.141 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

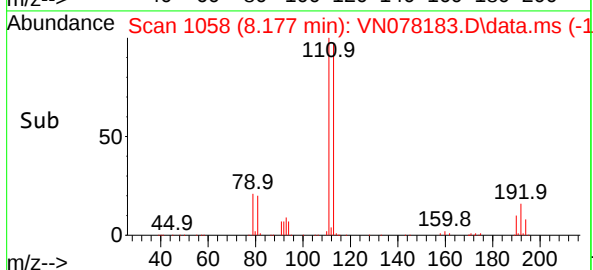
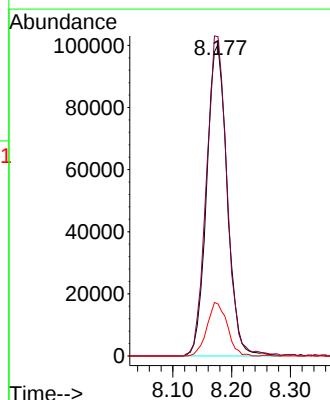
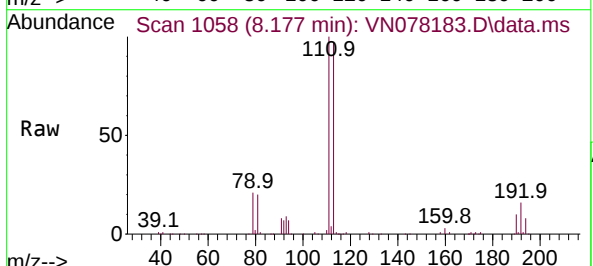
Tgt Ion:113 Resp: 243092

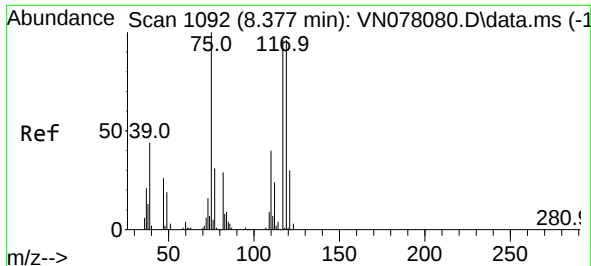
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 16.9 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.082 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

ClientSampleId :

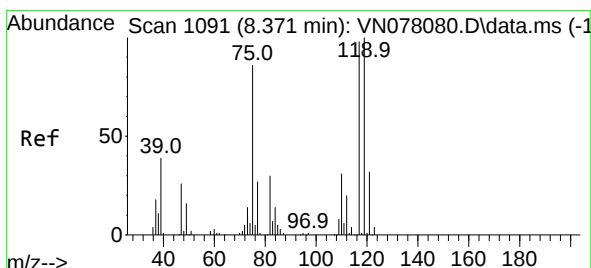
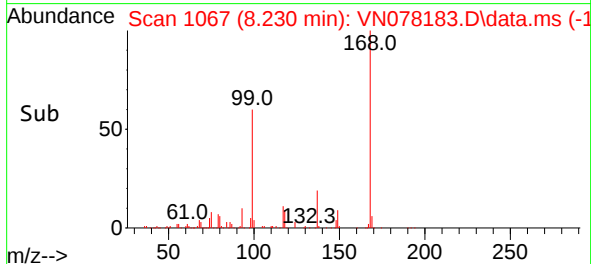
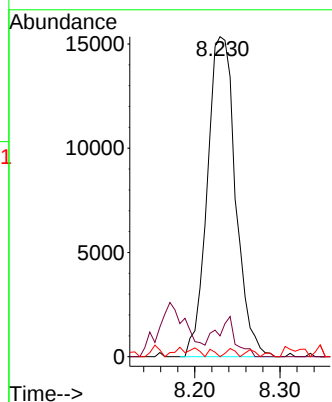
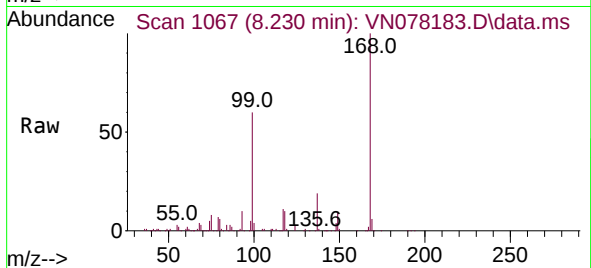
Tgt Ion: 75 Resp: 35342

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.3#

77 0.6 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.455 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

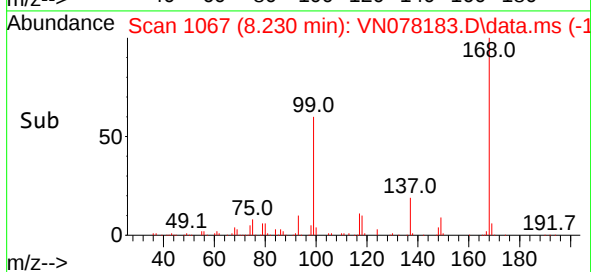
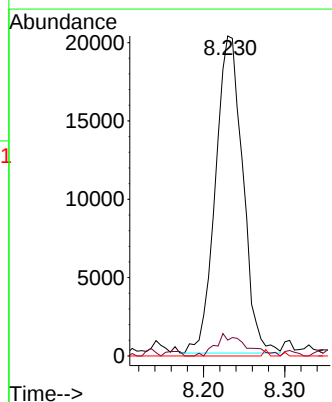
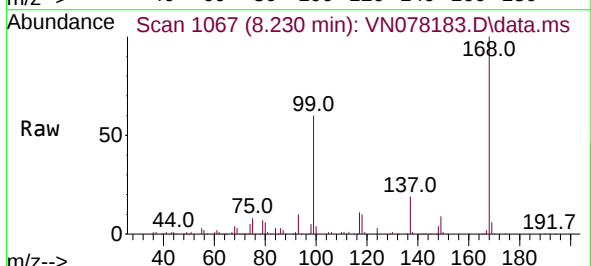
Tgt Ion: 117 Resp: 47398

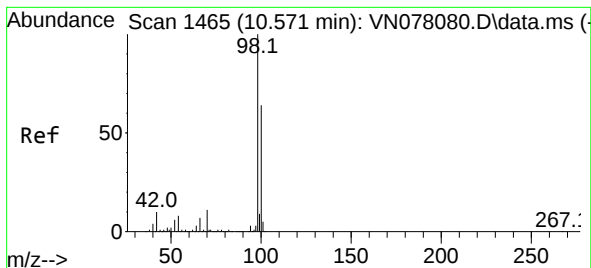
Ion Ratio Lower Upper

117 100

119 5.0 77.3 115.9#

121 0.0 23.3 34.9#





#50

Toluene-d8

Concen: 50.645 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

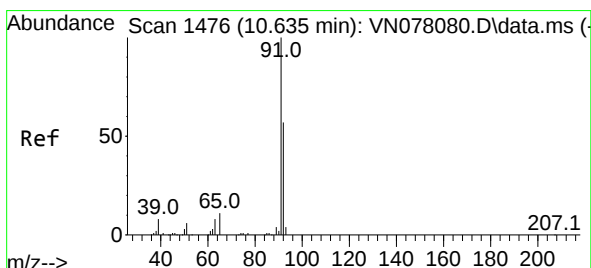
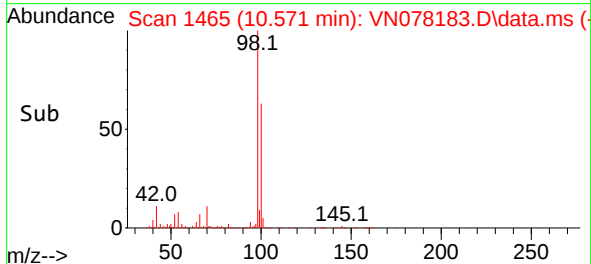
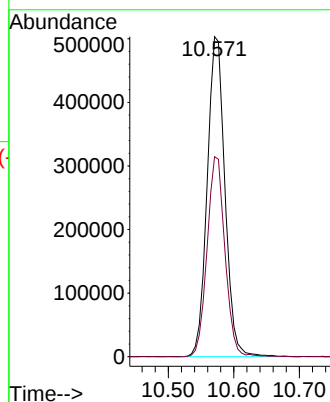
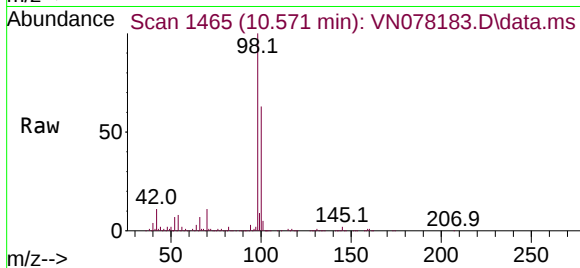
ClientSampleId :

Tgt Ion: 98 Resp: 946555

Ion Ratio Lower Upper

98 100

100 63.0 52.0 78.0



#52

Toluene

Concen: 1.040 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN078183.D

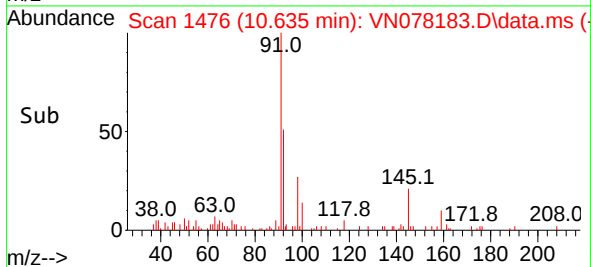
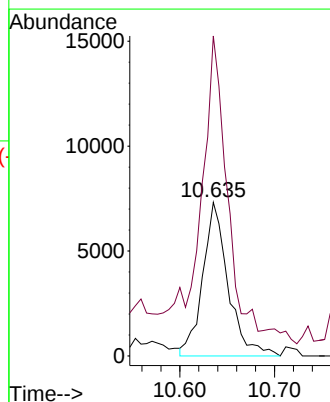
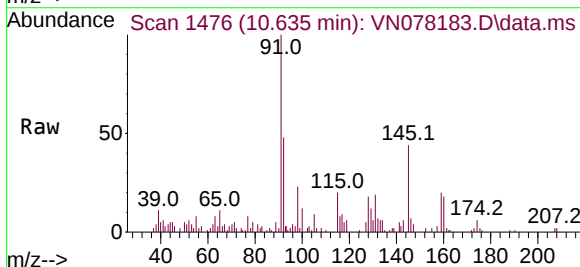
Acq: 13 Jun 2023 14:00

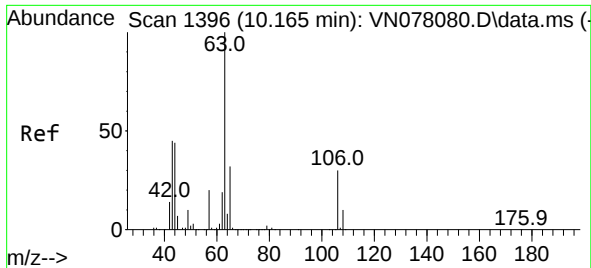
Tgt Ion: 92 Resp: 13634

Ion Ratio Lower Upper

92 100

91 184.5 137.4 206.0

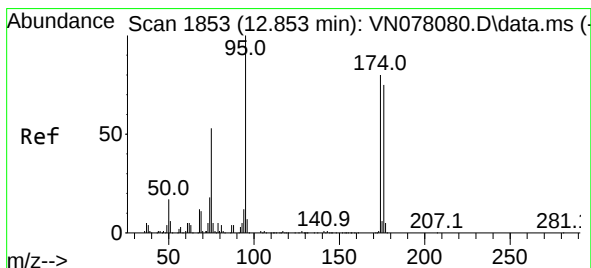
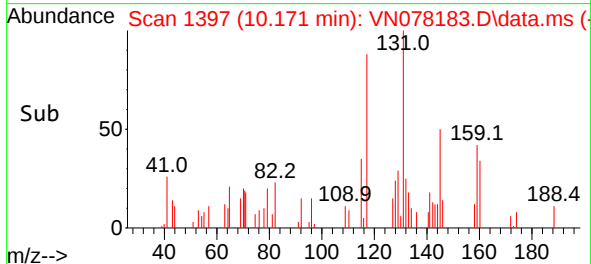
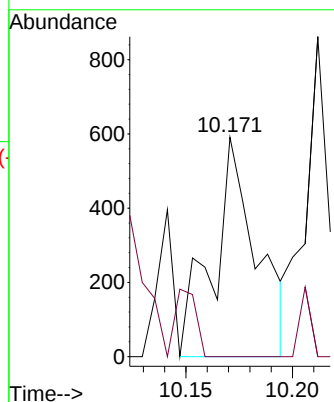
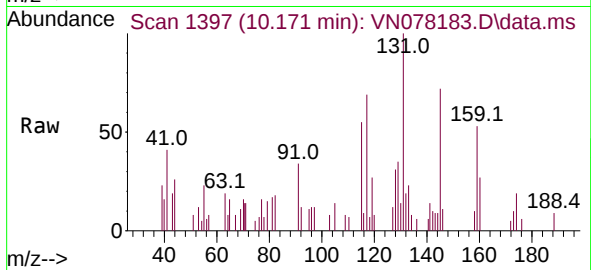




#58
2-Chloroethyl Vinyl ether
Concen: 0.289 ug/l
RT: 10.171 min Scan# 1396
Delta R.T. 0.006 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

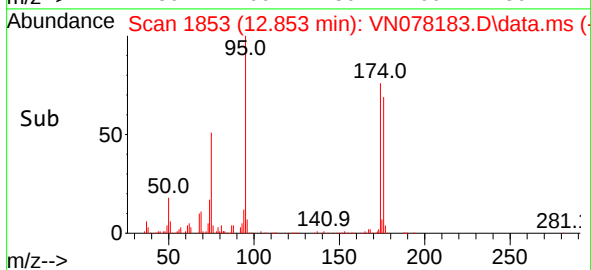
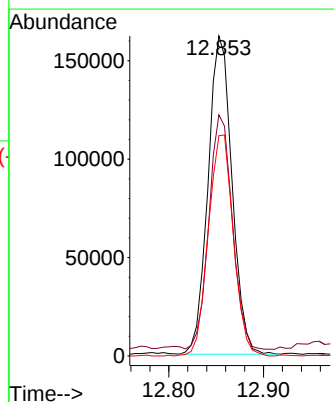
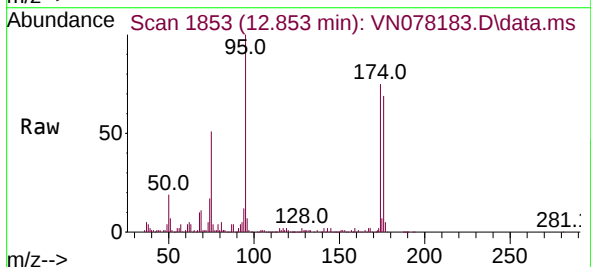
Instrument :
MSVOA_N
ClientSampleId :

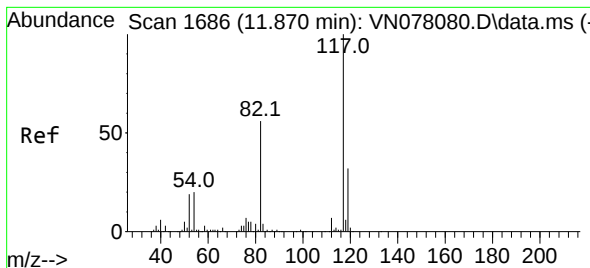
Tgt Ion: 63 Resp: 842
Ion Ratio Lower Upper
63 100
106 0.0 26.2 39.4#



#62
4-Bromofluorobenzene
Concen: 48.821 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Tgt Ion: 95 Resp: 283666
Ion Ratio Lower Upper
95 100
174 71.8 0.0 143.8
176 72.6 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: VN078183.D

Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

ClientSampleId :

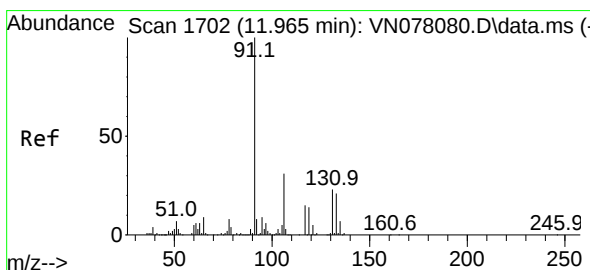
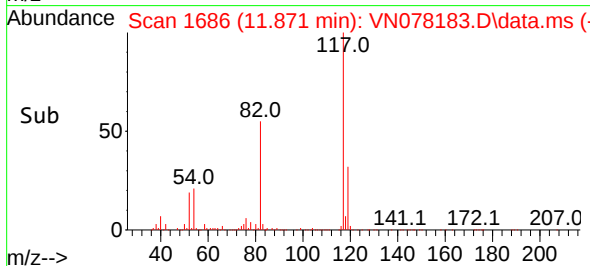
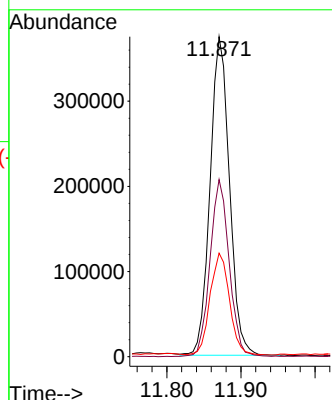
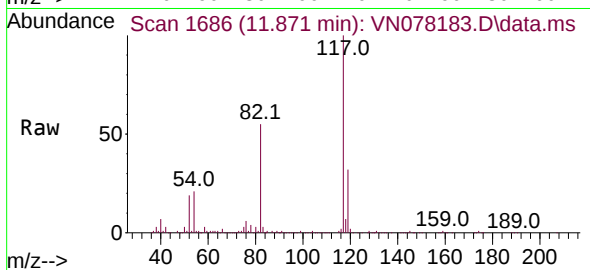
Tgt Ion:117 Resp: 679327

Ion Ratio Lower Upper

117 100

82 55.5 44.0 66.0

119 31.8 25.6 38.4



#66

1,1,1,2-Tetrachloroethane

Concen: 0.702 ug/l

RT: 11.976 min Scan# 1704

Delta R.T. 0.011 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

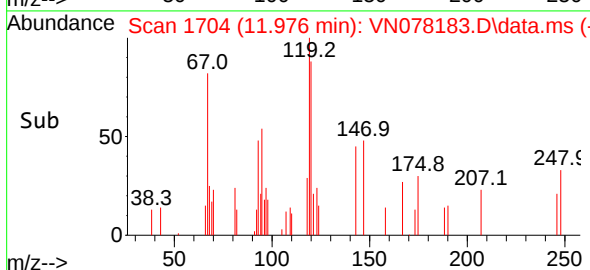
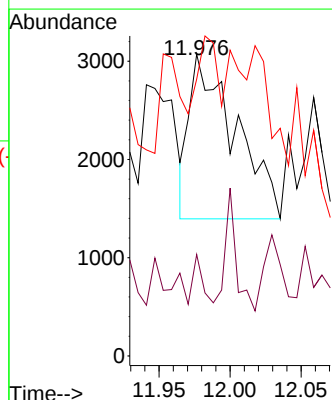
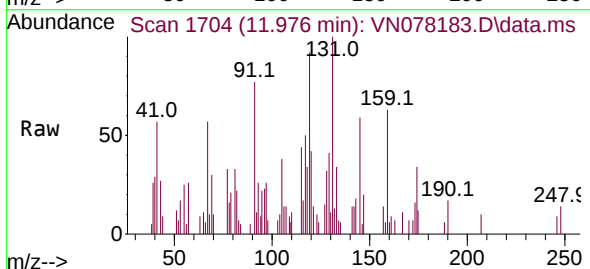
Tgt Ion:131 Resp: 3755

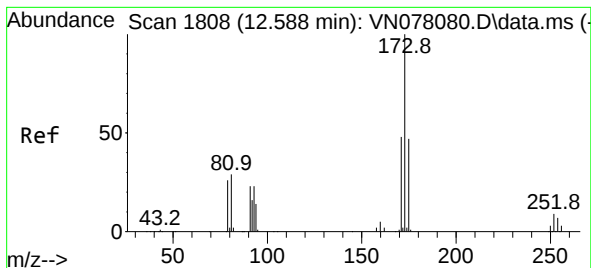
Ion Ratio Lower Upper

131 100

133 0.0 46.4 139.1#

119 0.0 34.1 102.2#





#71

Bromoform

Concen: 0.331 ug/l

RT: 12.576 min Scan# 1142

Delta R.T. -0.012 min

Lab File: VN078183.D

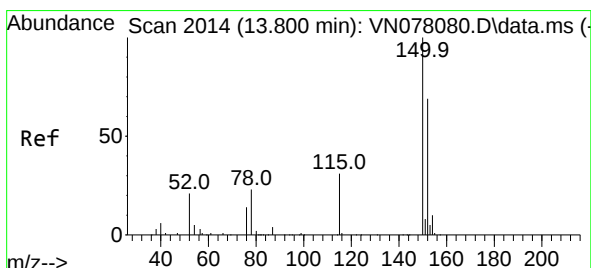
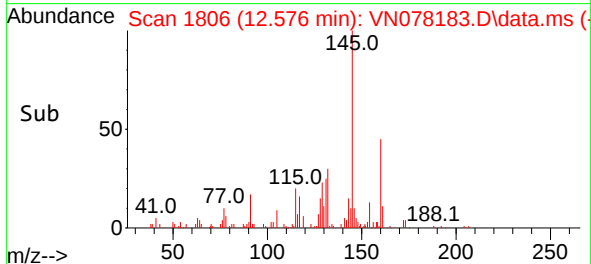
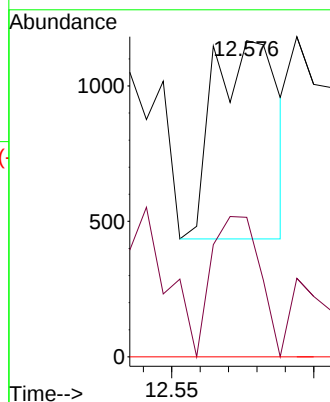
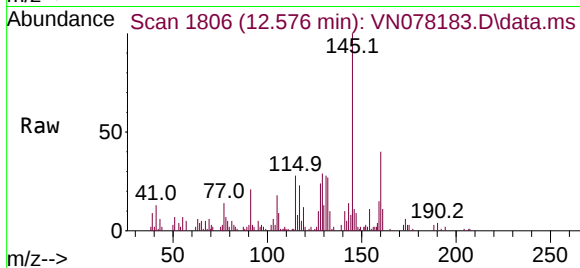
Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	173	Resp:	1142
Ion Ratio	Lower	Upper	
173	100		
175	53.4	24.3	73.0
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

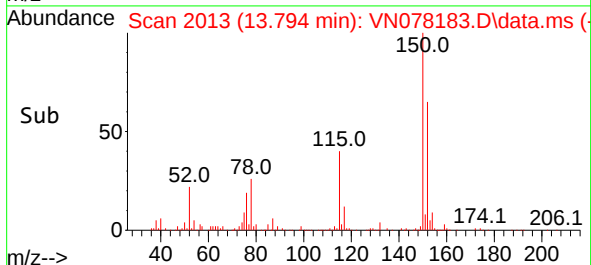
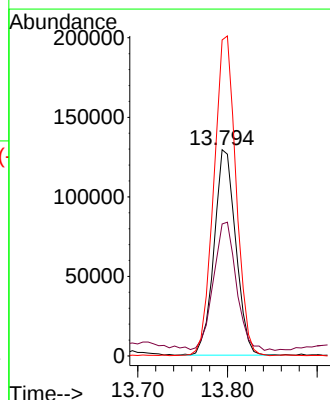
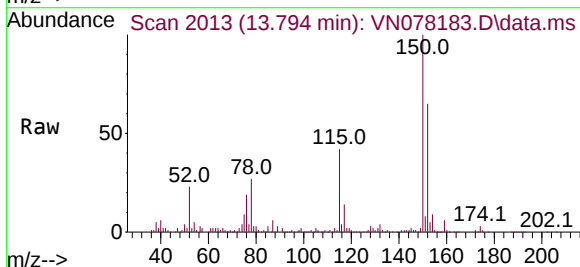
RT: 13.794 min Scan# 2013

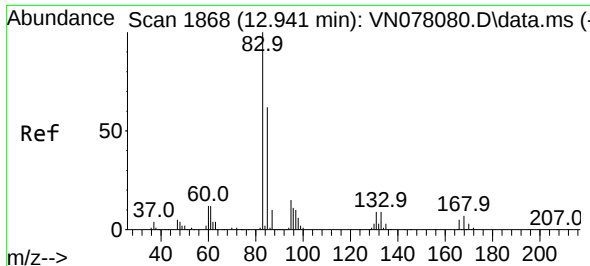
Delta R.T. -0.006 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Tgt Ion:	152	Resp:	216807
Ion Ratio	Lower	Upper	
152	100		
115	65.8	32.3	96.8
150	158.8	0.0	355.8

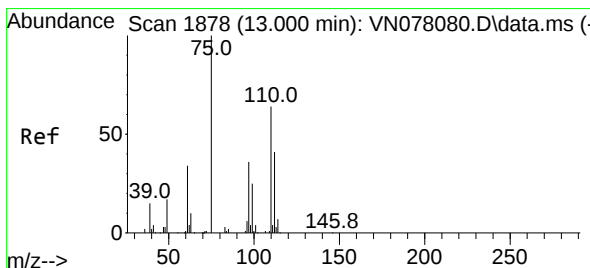
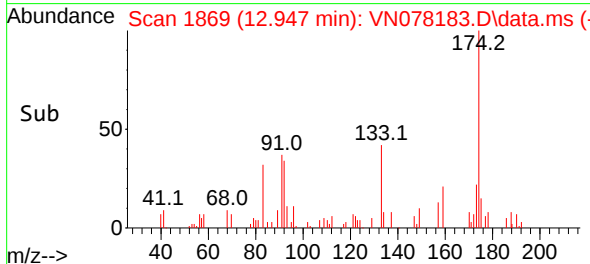
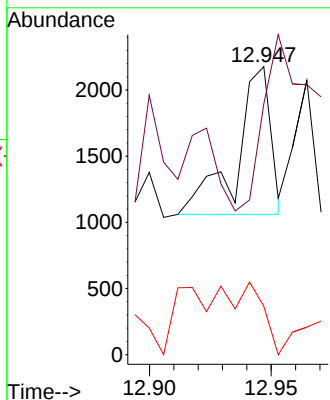
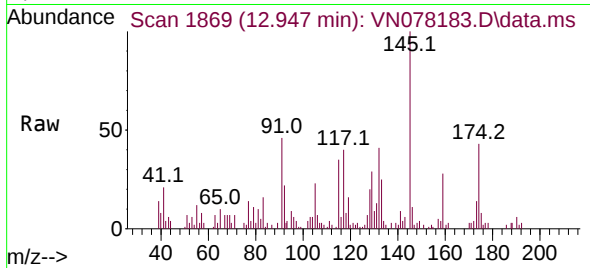




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.947 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

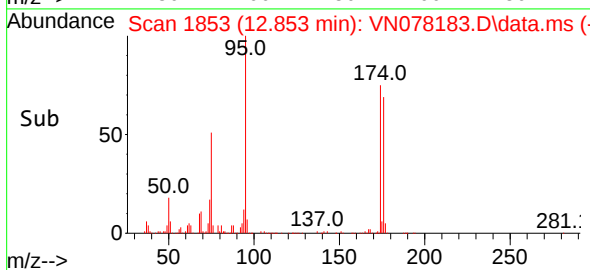
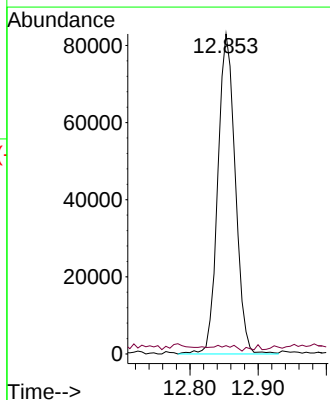
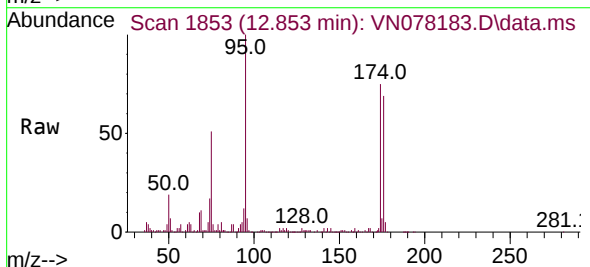
Instrument :
MSVOA_N
ClientSampleId :

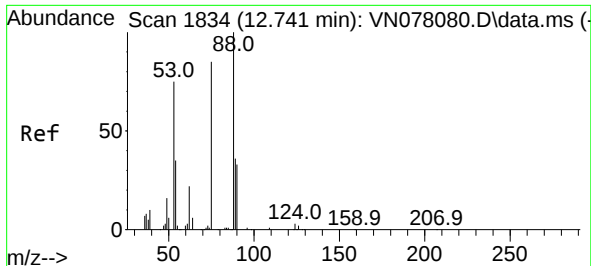
Tgt Ion: 83 Resp: 1084
Ion Ratio Lower Upper
83 100
131 219.6 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 28.929 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Tgt Ion: 75 Resp: 148271
Ion Ratio Lower Upper
75 100
77 0.2 84.5 253.5#

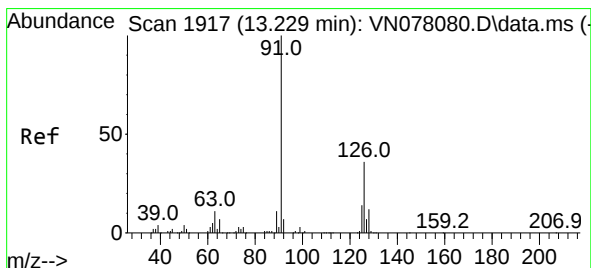
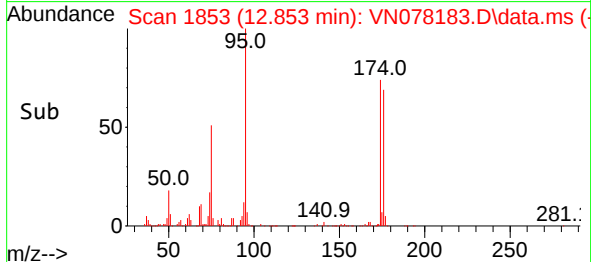
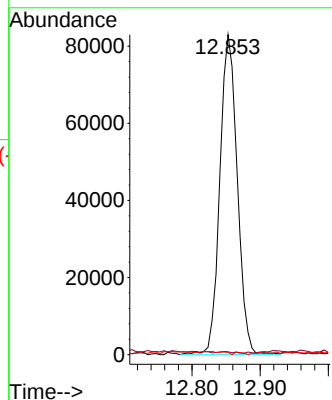
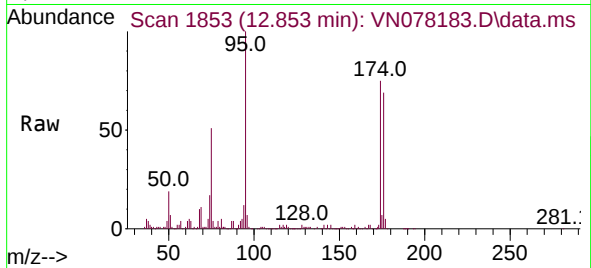




#81
trans-1,4-Dichloro-2-butene
Concen: 88.878 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

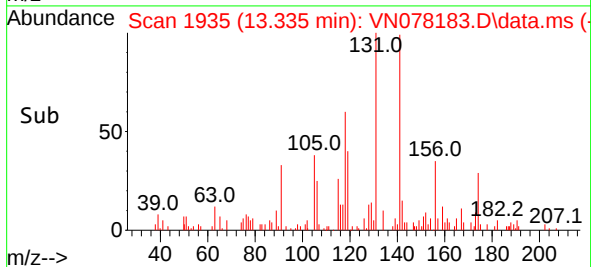
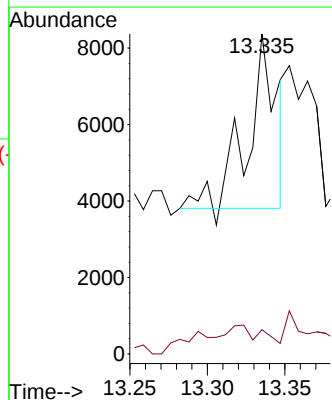
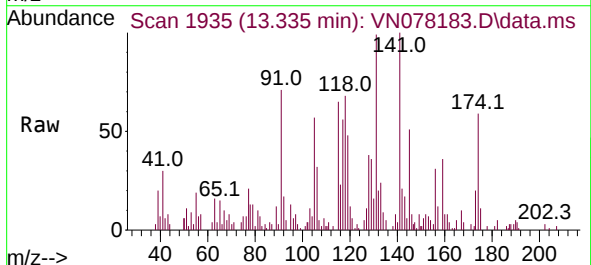
Instrument :
MSVOA_N
ClientSampleId :

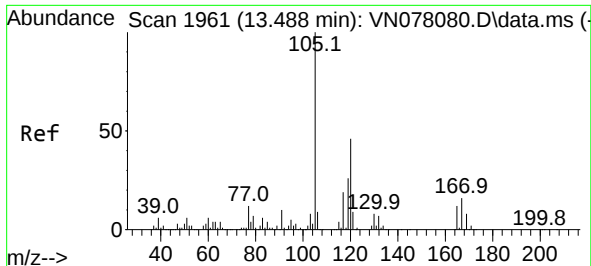
Tgt Ion: 75 Resp: 148271
Ion Ratio Lower Upper
75 100
53 0.6 67.4 101.2#
89 0.4 38.8 58.2#



#82
4-Chlorotoluene
Concen: 0.448 ug/l
RT: 13.335 min Scan# 1935
Delta R.T. 0.106 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Tgt Ion: 91 Resp: 6007
Ion Ratio Lower Upper
91 100
126 20.3 16.7 50.0

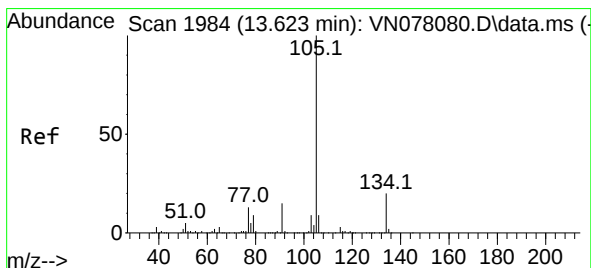
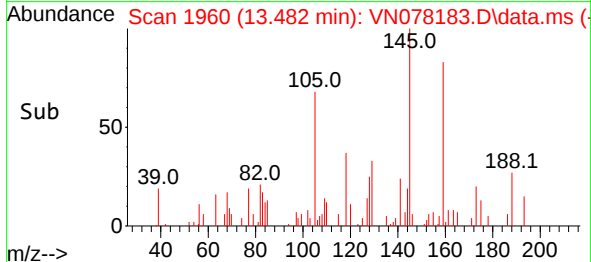
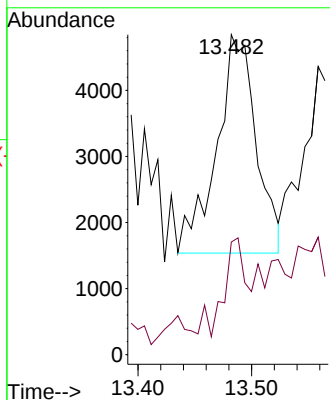
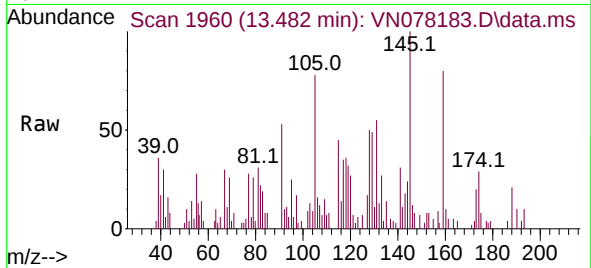




#84
1,2,4-Trimethylbenzene
Concen: 0.495 ug/l
RT: 13.482 min Scan# 1961
Delta R.T. -0.006 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

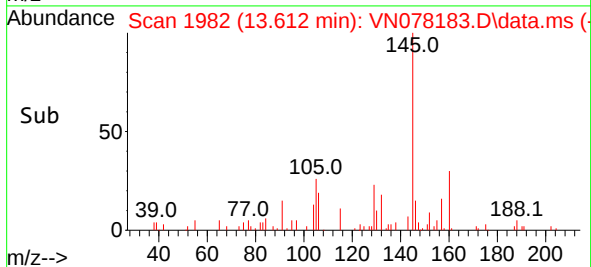
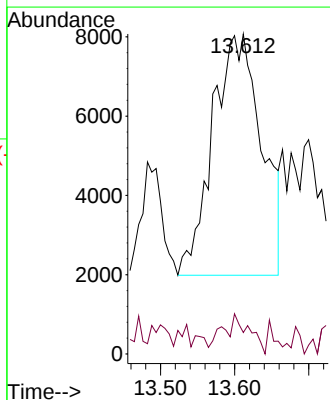
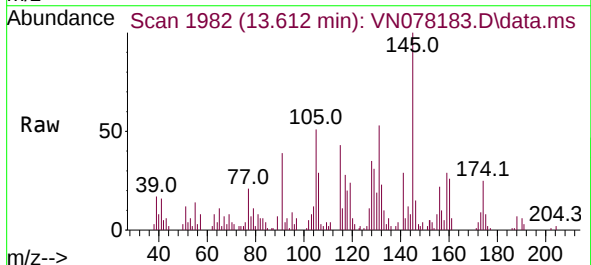
Instrument :
MSVOA_N
ClientSampleId :

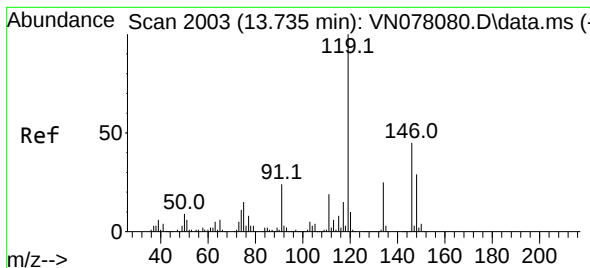
Tgt Ion:105 Resp: 7971
Ion Ratio Lower Upper
105 100
120 24.9 22.0 66.0



#85
sec-Butylbenzene
Concen: 1.480 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.012 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

Tgt Ion:105 Resp: 27946
Ion Ratio Lower Upper
105 100
134 5.5 9.8 29.3#





#86

p-Isopropyltoluene

Concen: 0.882 ug/l

RT: 13.741 min Scan# 2000

Delta R.T. 0.006 min

Lab File: VN078183.D

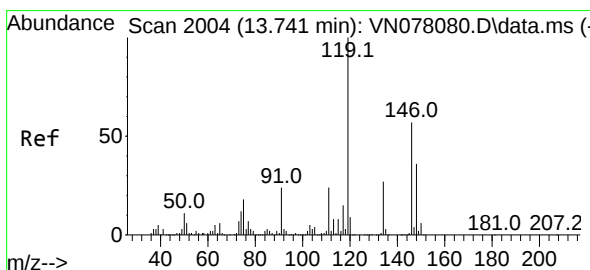
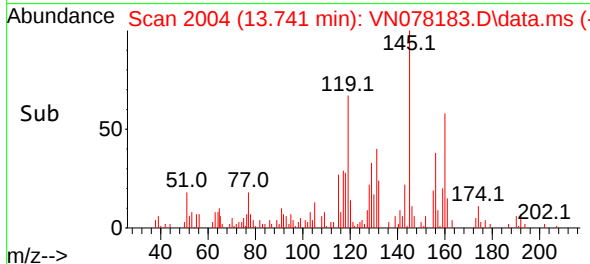
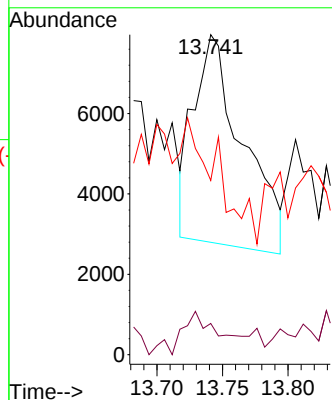
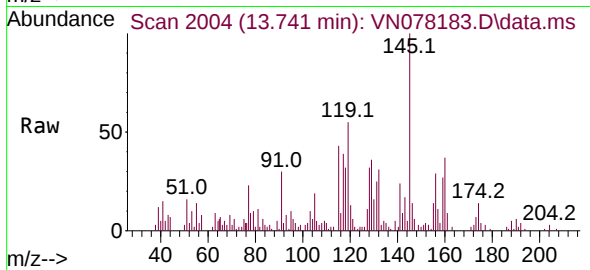
Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	13516
Ion Ratio	Lower	Upper	
119	100		
134	9.5	12.6	37.8#
91	0.0	12.4	37.2#



#87

1,3-Dichlorobenzene

Concen: 0.527 ug/l

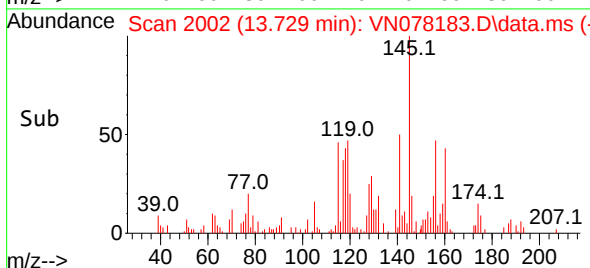
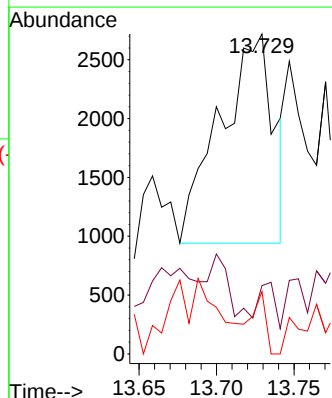
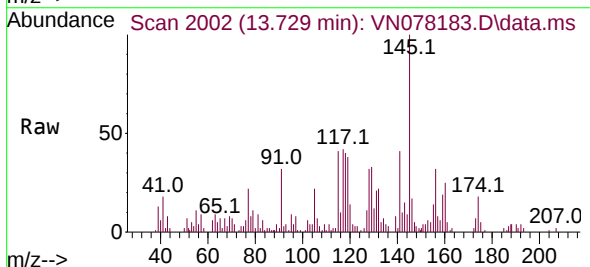
RT: 13.729 min Scan# 2002

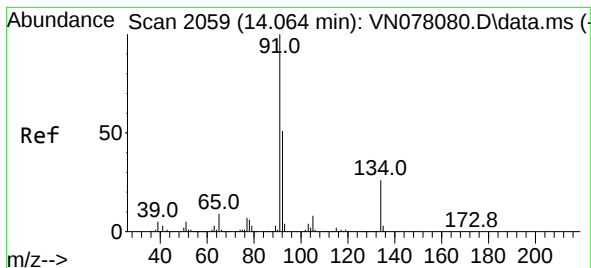
Delta R.T. -0.012 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Tgt Ion:	146	Resp:	4239
Ion Ratio	Lower	Upper	
146	100		
111	6.3	22.1	66.3#
148	7.1	32.0	96.0#





#89

n-Butylbenzene

Concen: 0.786 ug/l

RT: 14.053 min Scan# 2059

Delta R.T. -0.012 min

Lab File: VN078183.D

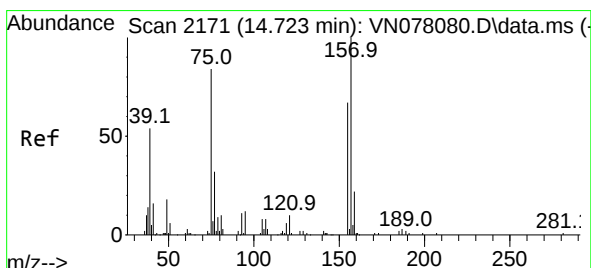
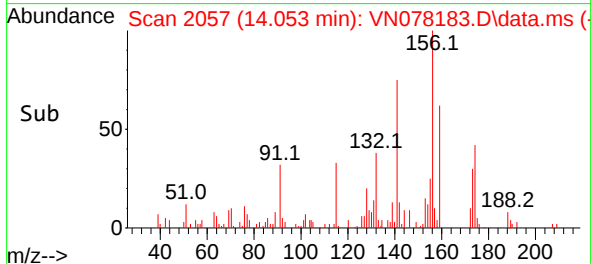
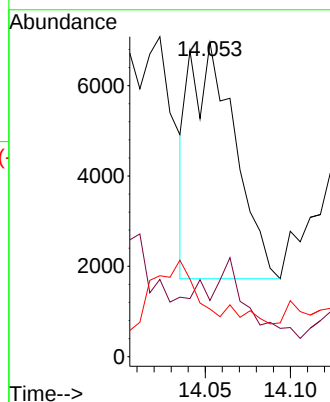
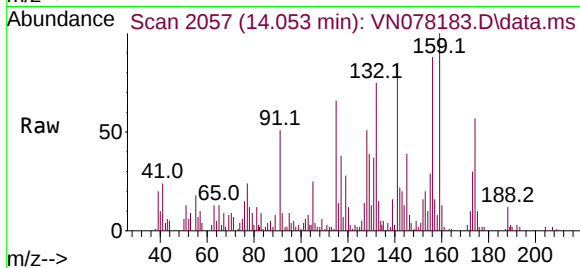
Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp:	9500
Ion Ratio	Lower	Upper
91	100	
92	21.2	26.4 79.0#
134	0.0	12.6 37.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.067 ug/l

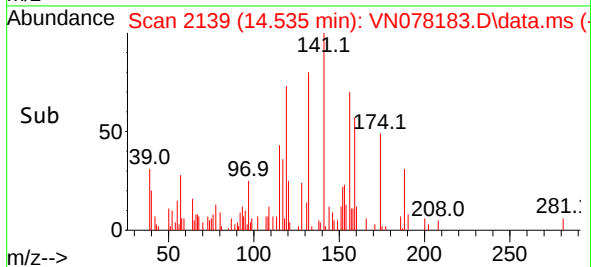
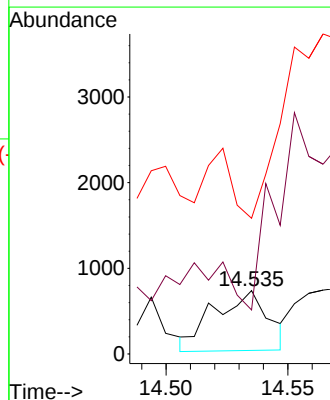
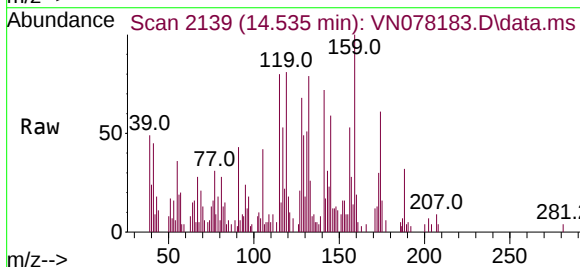
RT: 14.535 min Scan# 2139

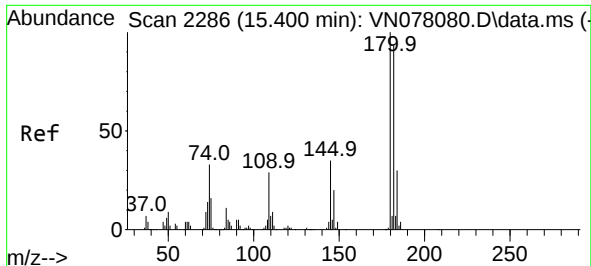
Delta R.T. -0.188 min

Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

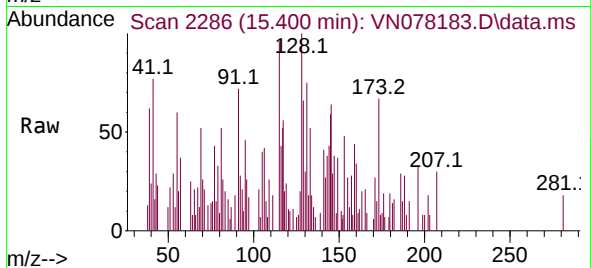
Tgt Ion: 75	Resp:	1084
Ion Ratio	Lower	Upper
75	100	
155	76.1	39.1 117.2
157	118.8	50.3 150.9



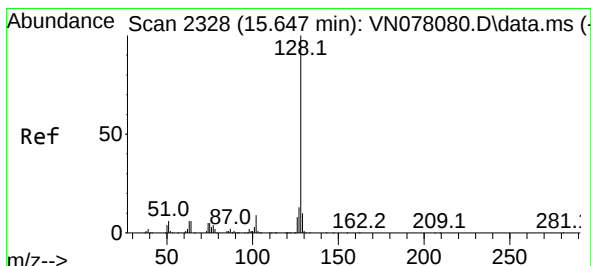
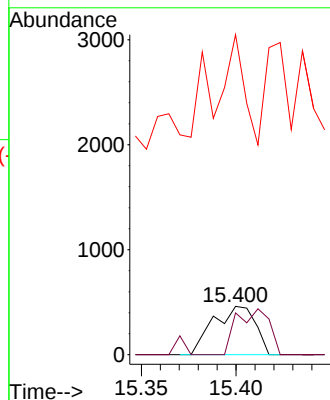
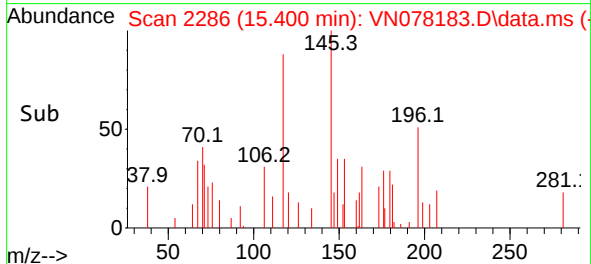


#93
1,2,4-Trichlorobenzene
Concen: 0.254 ug/l
RT: 15.400 min Scan# 2286
Delta R.T. 0.000 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00

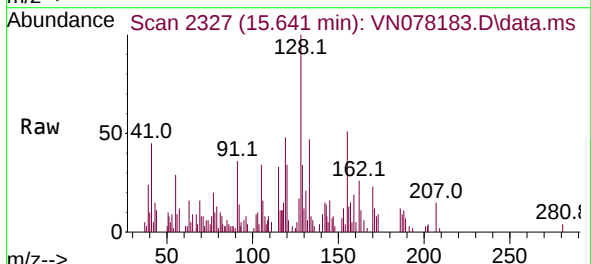
Instrument :
MSVOA_N
ClientSampleId :



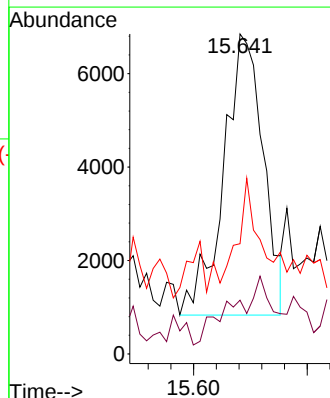
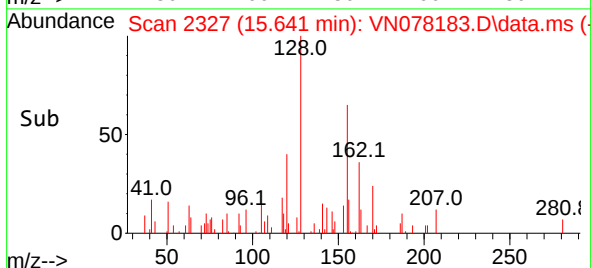
Tgt Ion:180 Resp: 711
Ion Ratio Lower Upper
180 100
182 0.0 46.1 138.2#
145 155.4 16.6 49.8#

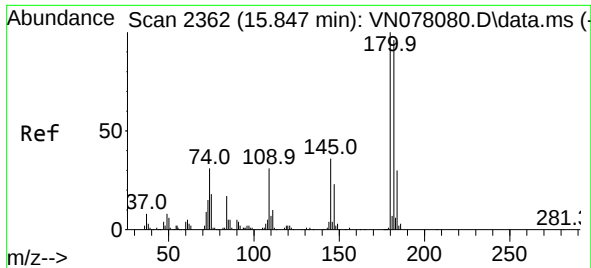


#95
Naphthalene
Concen: 1.548 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN078183.D
Acq: 13 Jun 2023 14:00



Tgt Ion:128 Resp: 14597
Ion Ratio Lower Upper
128 100
127 12.5 10.0 15.0
129 21.5 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 0.217 ug/l

RT: 15.841 min Scan# 21

Delta R.T. -0.006 min

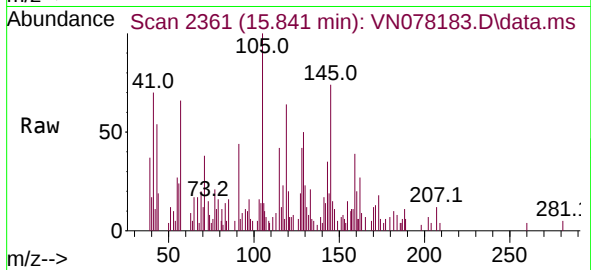
Lab File: VN078183.D

Acq: 13 Jun 2023 14:00

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 680

Ion Ratio Lower Upper

180 100

182 153.4 46.2 138.6#

145 858.7 17.5 52.6#

