

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072023\
 Data File : VN078597.D
 Acq On : 20 Jul 2023 16:45
 Operator : JC\MD
 Sample : 03706-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 21 06:17:46 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)

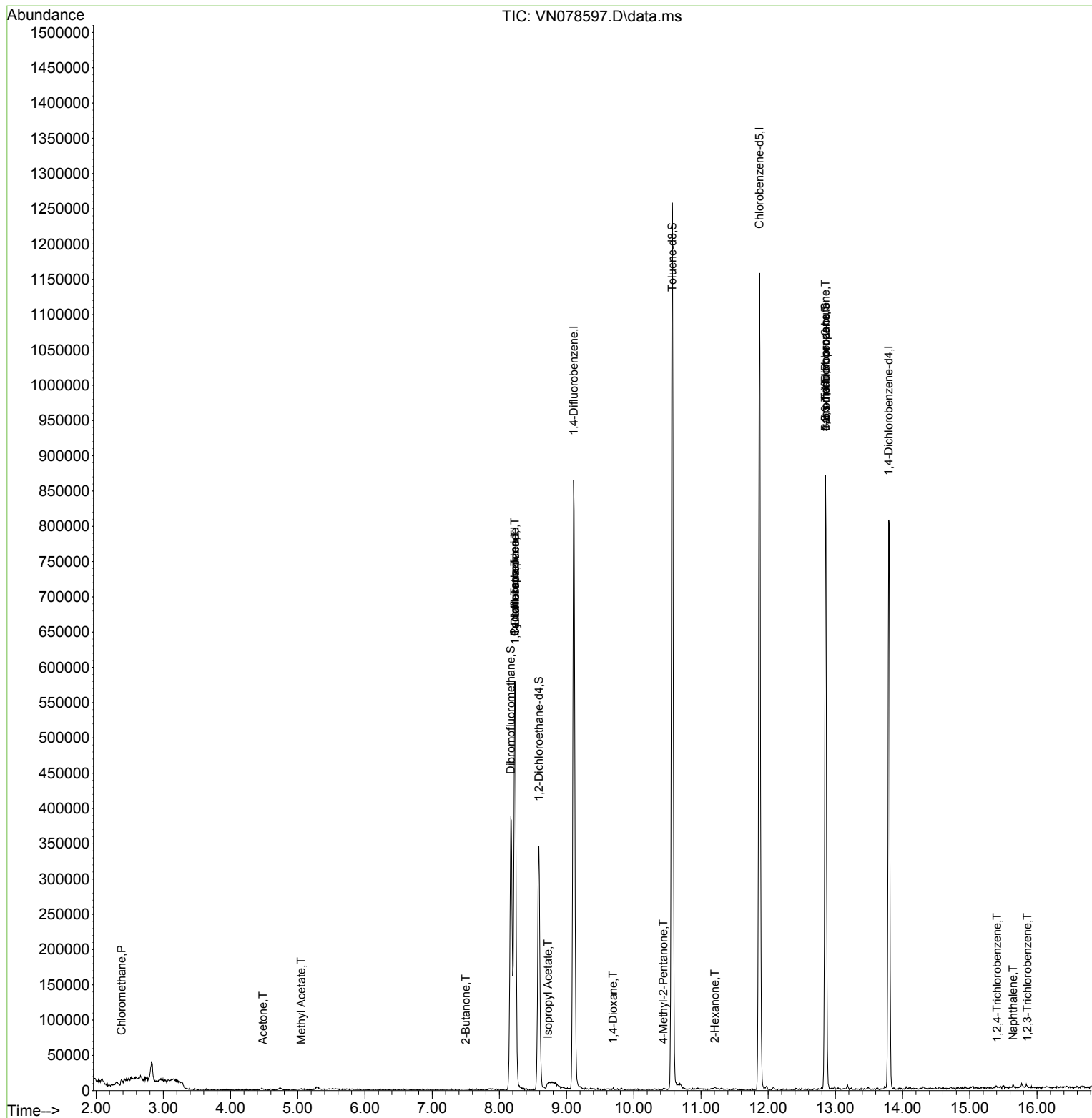
Internal Standards						
1) Pentafluorobenzene	8.230	168	429465	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	762661	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	702101	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	229018	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	284842	49.474	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.940%		
35) Dibromofluoromethane	8.171	113	279740	54.033	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.060%		
50) Toluene-d8	10.571	98	910475	46.553	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.100%		
62) 4-Bromofluorobenzene	12.853	95	296344	49.192	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.380%		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	5164	0.902	ug/l	93
5) Bromomethane	2.971	94	3119	Below Cal		88
6) Chloroethane	3.106	64	629	Below Cal #		43
16) Acetone	4.483	43	2486	1.386	ug/l #	40
18) Methyl Acetate	5.053	43	2060	0.271	ug/l #	51
20) Methylene Chloride	5.295	84	2680	Below Cal #		84
25) 2-Butanone	7.500	43	637	0.226	ug/l #	37
31) Cyclohexane	8.230	56	10333	1.328	ug/l #	37
36) 1,1-Dichloropropene	8.236	75	35311	4.724	ug/l #	48
38) Carbon Tetrachloride	8.230	117	44642	5.495	ug/l #	15
43) Isopropyl Acetate	8.724	43	5530	0.539	ug/l #	49
49) 1,4-Dioxane	9.694	88	73	0.704	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	1455	0.238	ug/l #	31
59) 2-Hexanone	11.206	43	1450	0.334	ug/l	91
71) Bromoform	12.853	173	2405	0.588	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.935	83	742	Below Cal #		56
76) 1,2,3-Trichloropropane	12.853	75	159324	28.781	ug/l #	1
77) Bromobenzene	12.982	156	392	Below Cal		50
81) trans-1,4-Dichloro-2-b...	12.853	75	159324	75.632	ug/l #	15
90) Hexachloroethane	14.341	117	72	Below Cal #		21
92) 1,2-Dibromo-3-Chloropr...	14.717	75	183	Below Cal #		50
93) 1,2,4-Trichlorobenzene	15.406	180	773	0.295	ug/l #	56
94) Hexachlorobutadiene	15.506	225	402	Below Cal #		44
95) Naphthalene	15.647	128	3663	0.408	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.859	180	893	0.296	ug/l #	17

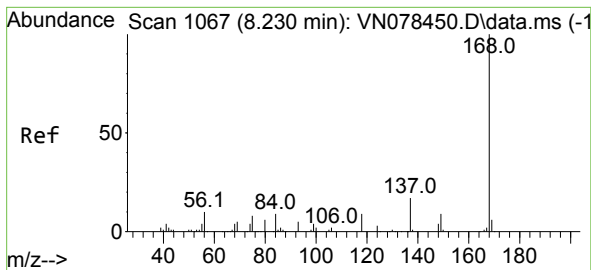
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078597.D

Acq: 20 Jul 2023 16:45

Instrument :

MSVOA_N

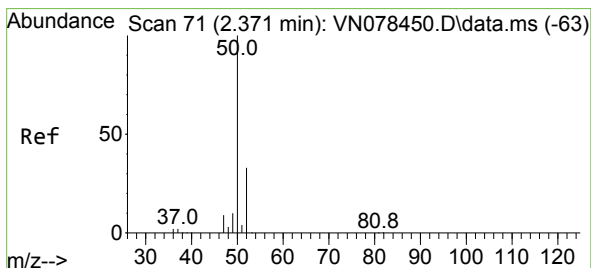
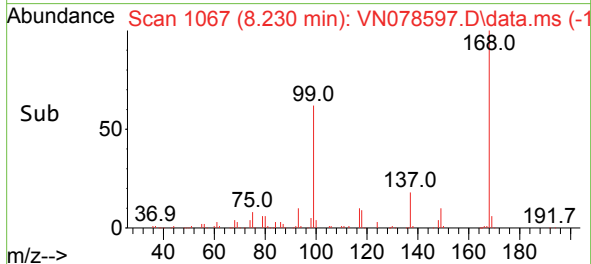
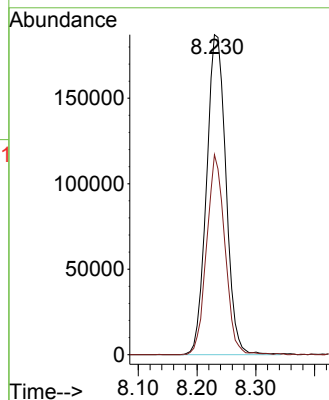
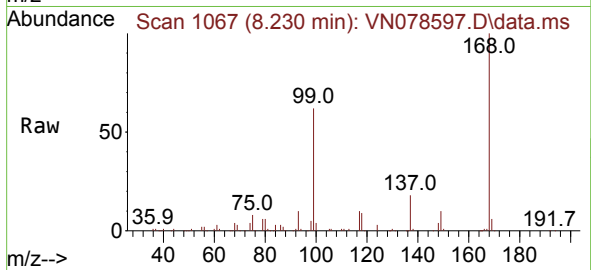
ClientSampleId :

Tgt Ion:168 Resp: 429465

Ion Ratio Lower Upper

168 100

99 62.5 53.0 79.6



#3

Chloromethane

Concen: 0.902 ug/l

RT: 2.377 min Scan# 72

Delta R.T. 0.006 min

Lab File: VN078597.D

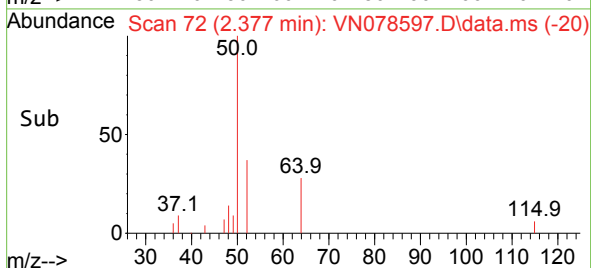
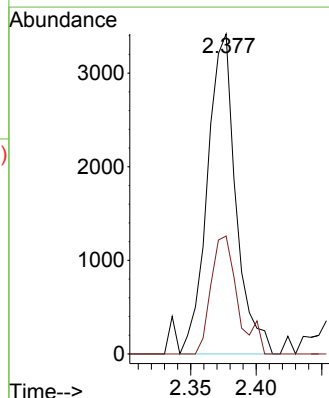
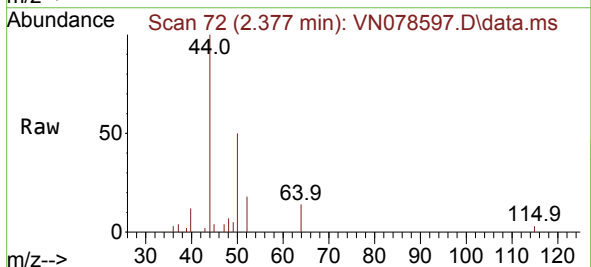
Acq: 20 Jul 2023 16:45

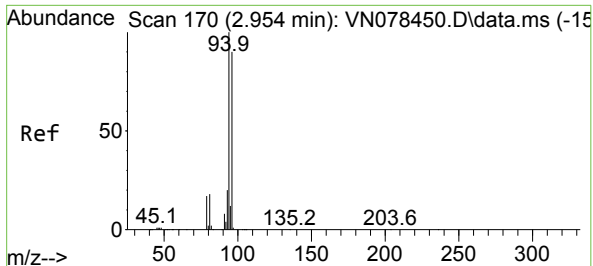
Tgt Ion: 50 Resp: 5164

Ion Ratio Lower Upper

50 100

52 36.9 26.5 39.7

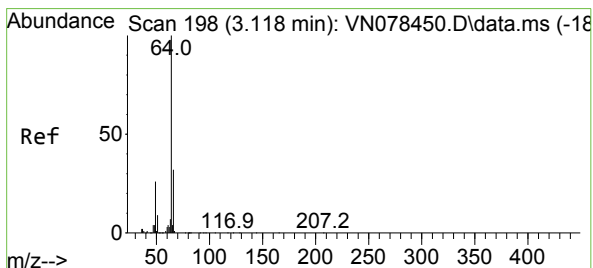
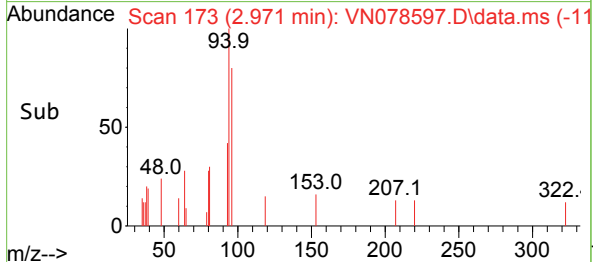
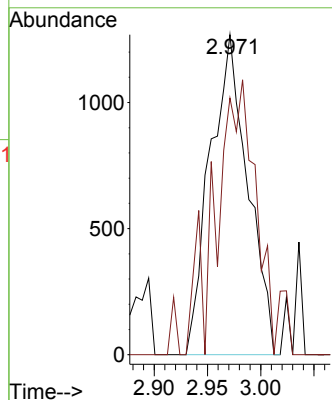
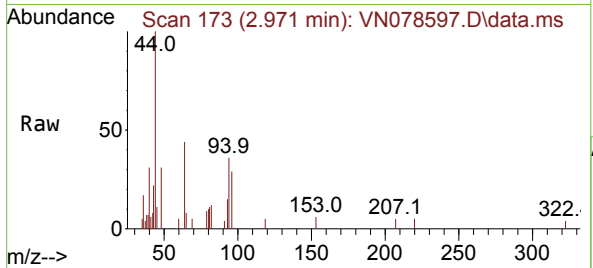




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

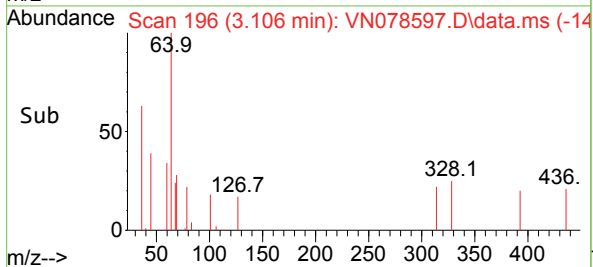
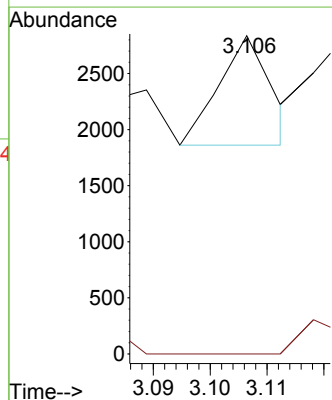
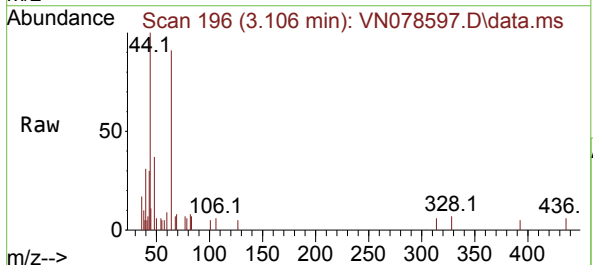
Instrument :
MSVOA_N
ClientSampleId :

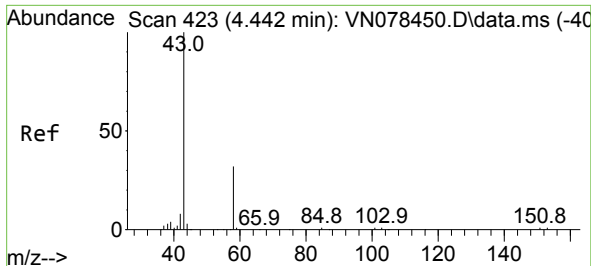
Tgt Ion: 94 Resp: 3119
Ion Ratio Lower Upper
94 100
96 80.2 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Tgt Ion: 64 Resp: 629
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

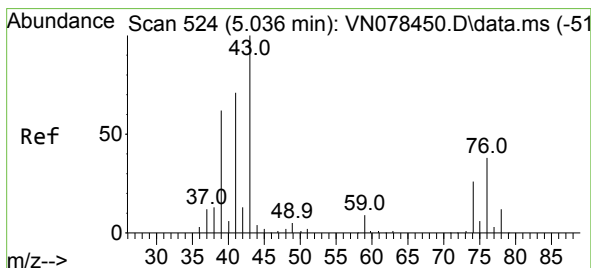
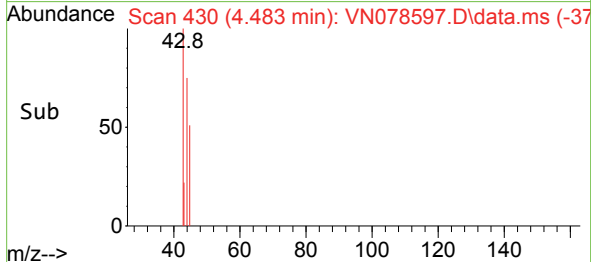
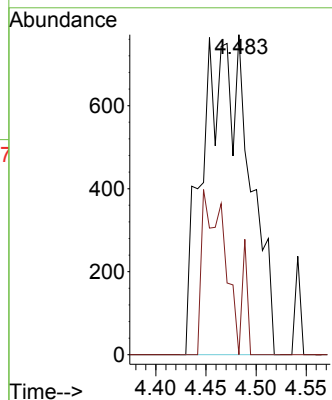
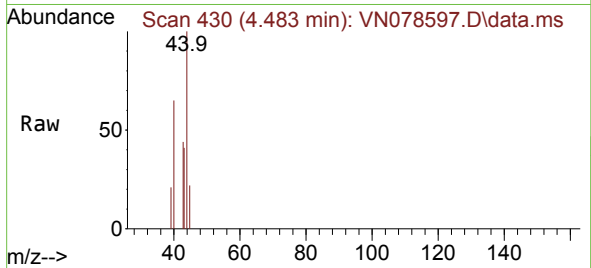




#16
Acetone
Concen: 1.386 ug/l
RT: 4.483 min Scan# 41
Delta R.T. 0.041 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

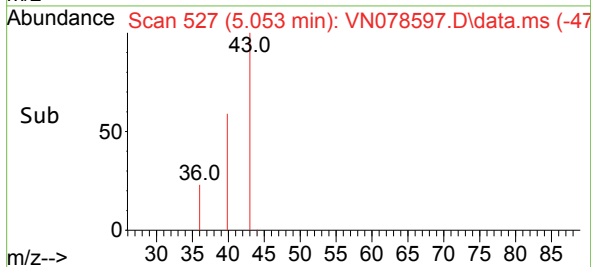
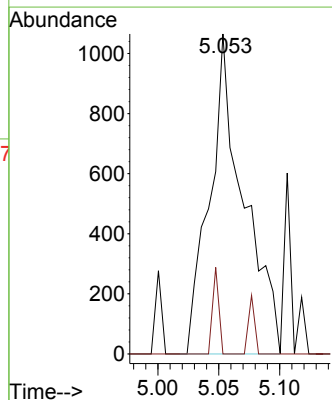
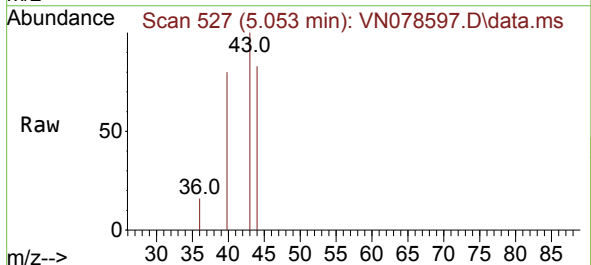
Instrument :
MSVOA_N
ClientSampleId :

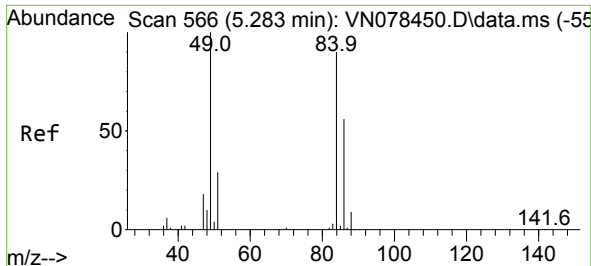
Tgt Ion: 43 Resp: 2486
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#18
Methyl Acetate
Concen: 0.271 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.017 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

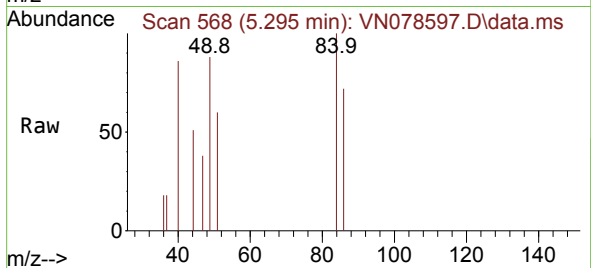
Tgt Ion: 43 Resp: 2060
Ion Ratio Lower Upper
43 100
74 5.0 26.2 39.4#



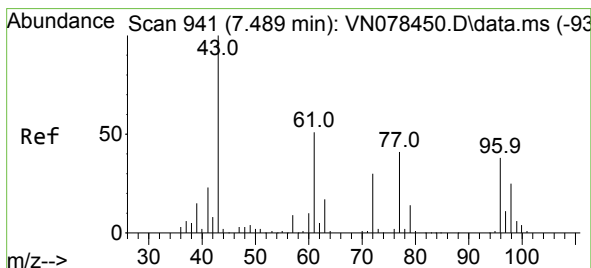
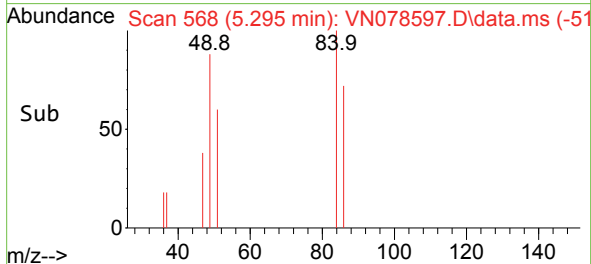
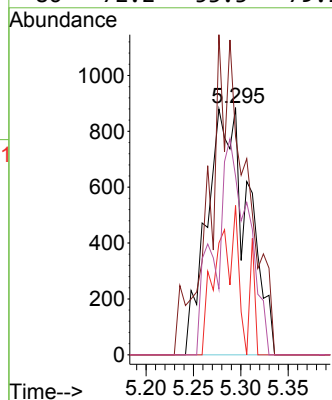


#20
Methylene Chloride
Concen: Below Cal
RT: 5.295 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :

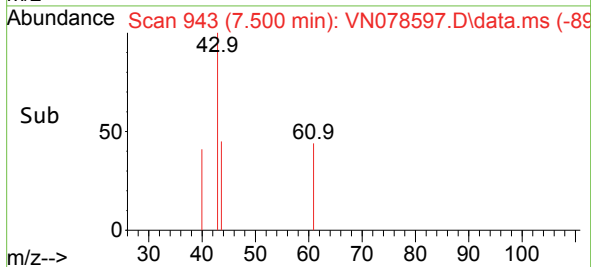
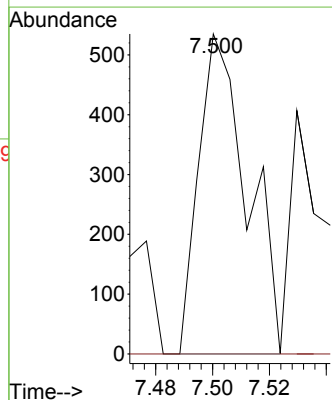
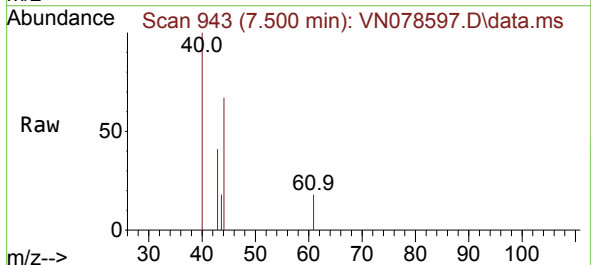


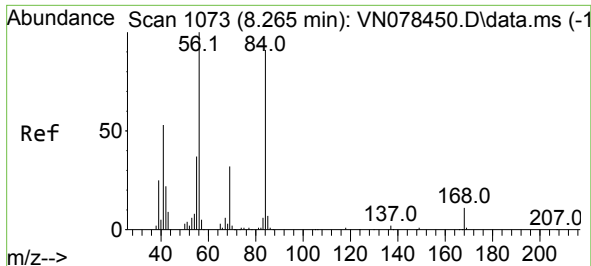
Tgt Ion: 84 Resp: 2680
Ion Ratio Lower Upper
84 100
49 88.2 79.7 119.5
51 60.3 25.2 37.8#
86 72.2 53.3 79.9



#25
2-Butanone
Concen: 0.226 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.011 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

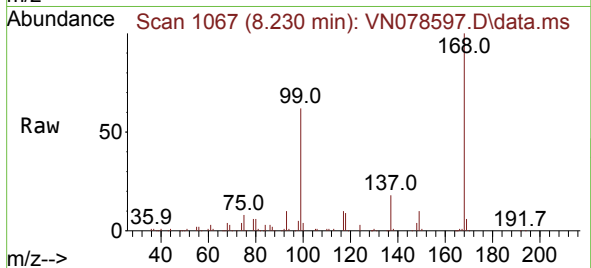
Tgt Ion: 43 Resp: 637
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



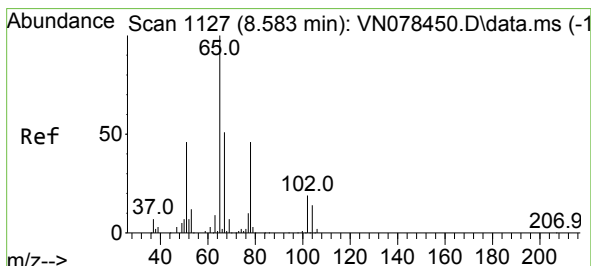
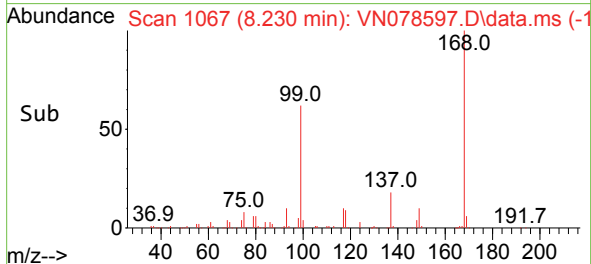
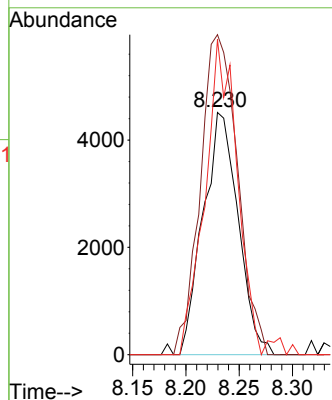


#31
Cyclohexane
Concen: 1.328 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :

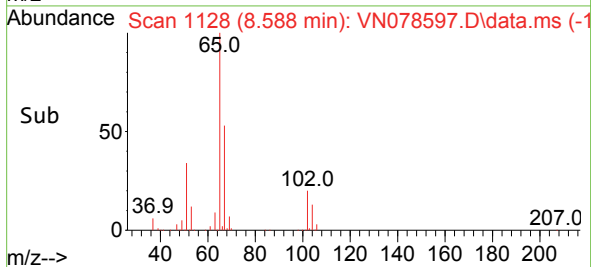
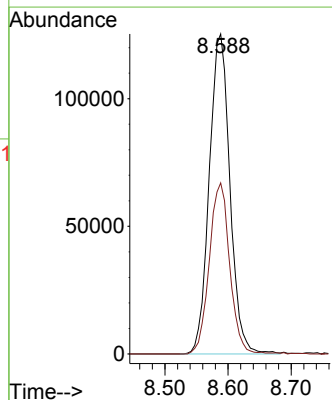
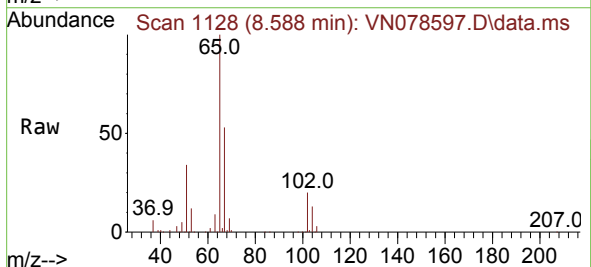


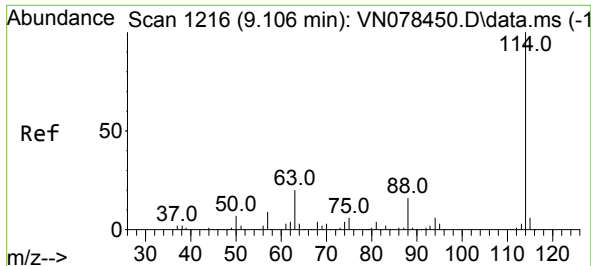
Tgt Ion: 56 Resp: 10333
Ion Ratio Lower Upper
56 100
69 132.1 26.8 40.2#
84 130.1 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 49.474 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Tgt Ion: 65 Resp: 284842
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN078597.D

Acq: 20 Jul 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

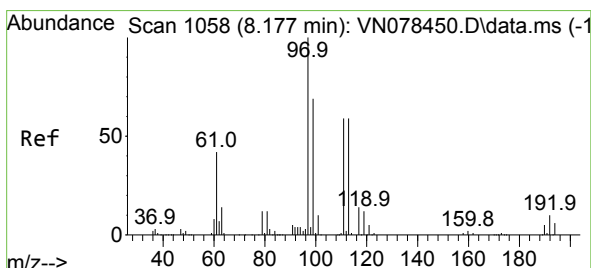
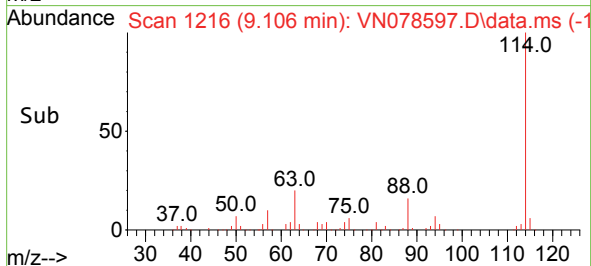
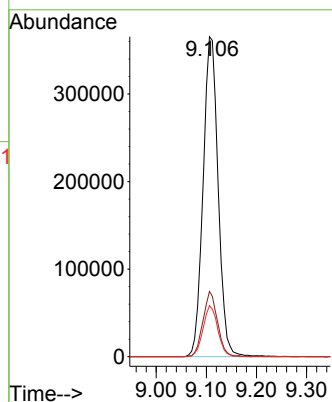
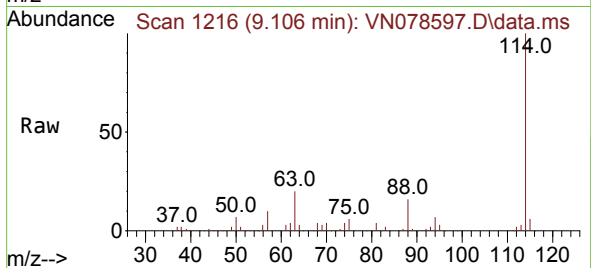
Tgt Ion:114 Resp: 762661

Ion Ratio Lower Upper

114 100

63 20.4 0.0 36.4

88 16.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.033 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VN078597.D

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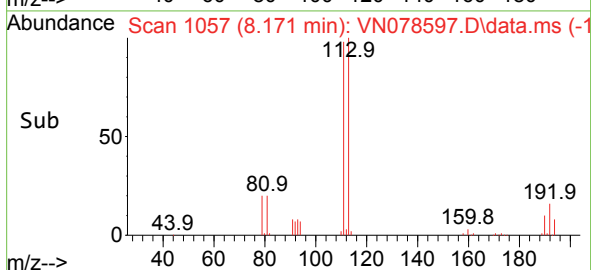
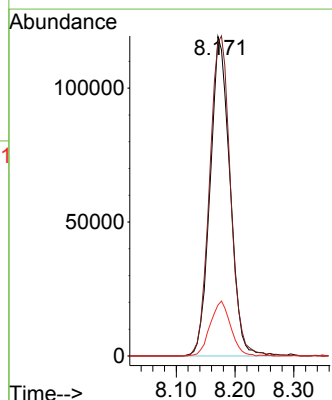
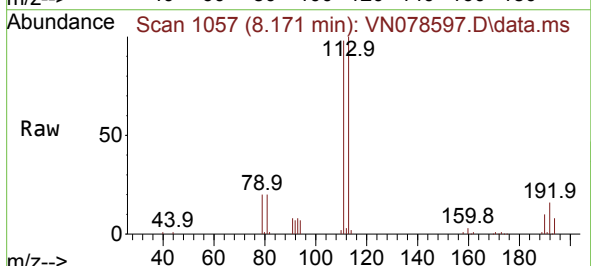
Tgt Ion:113 Resp: 279740

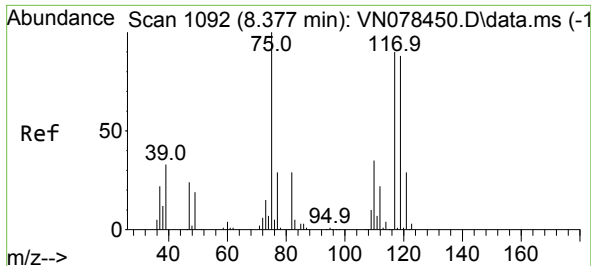
Ion Ratio Lower Upper

113 100

111 105.3 82.6 123.8

192 17.7 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.724 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.142 min

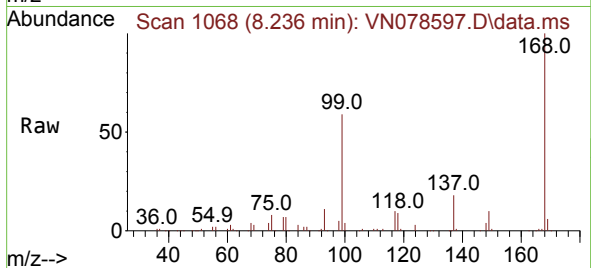
Lab File: VN078597.D

Acq: 20 Jul 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :



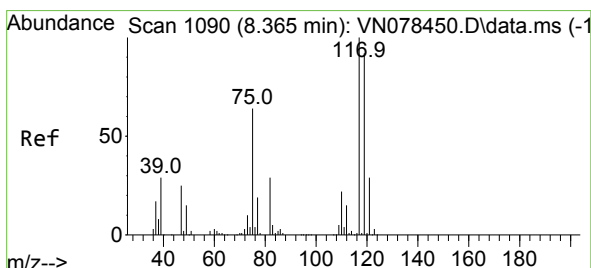
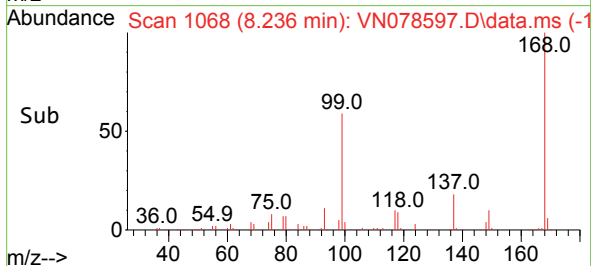
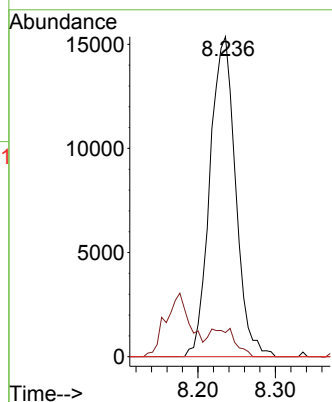
Tgt Ion: 75 Resp: 35311

Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.495 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN078597.D

Acq: 20 Jul 2023 16:45

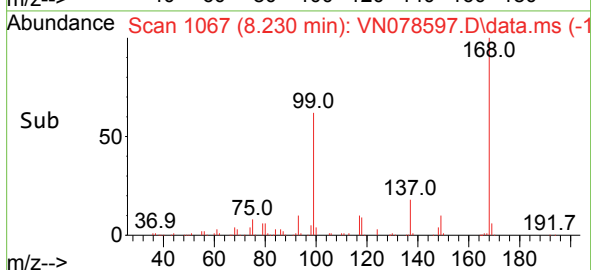
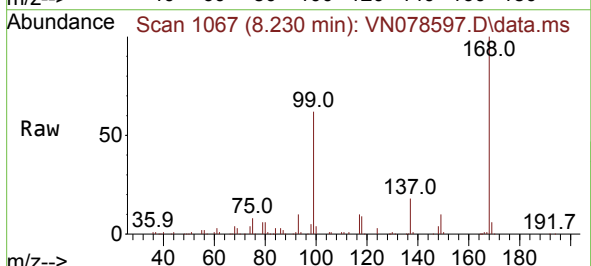
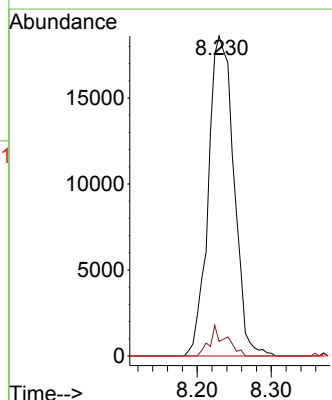
Tgt Ion: 117 Resp: 44642

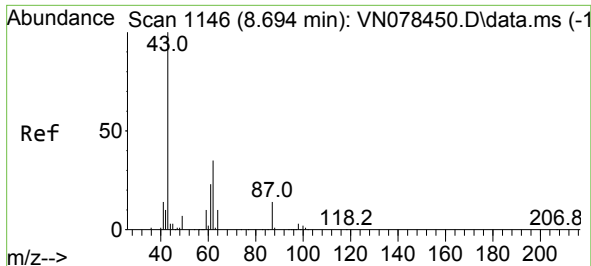
Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

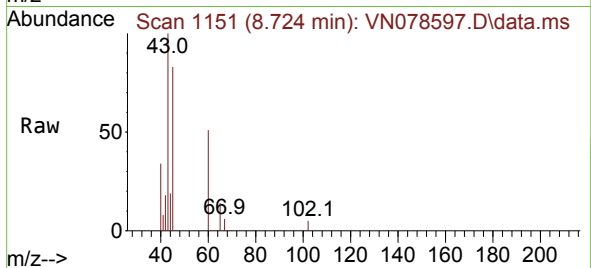
121 0.0 23.3 34.9#



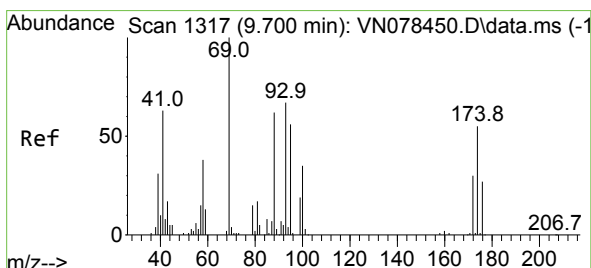
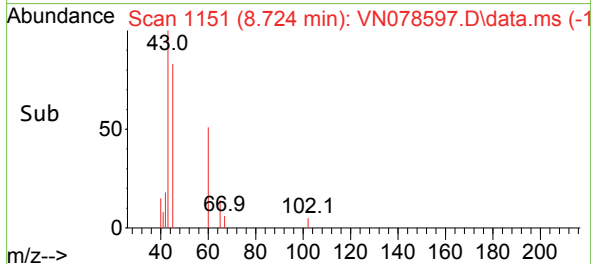
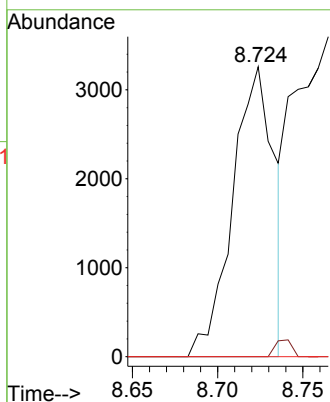


#43
Isopropyl Acetate
Concen: 0.539 ug/l
RT: 8.724 min Scan# 1151
Delta R.T. 0.030 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Instrument :
MSVOA_N
ClientSampleId :

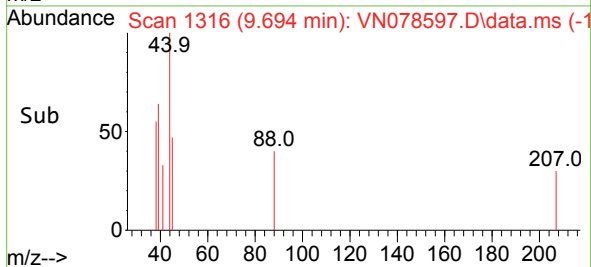
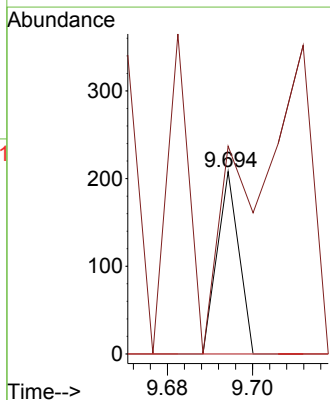
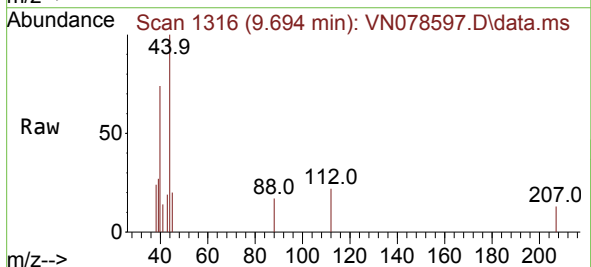


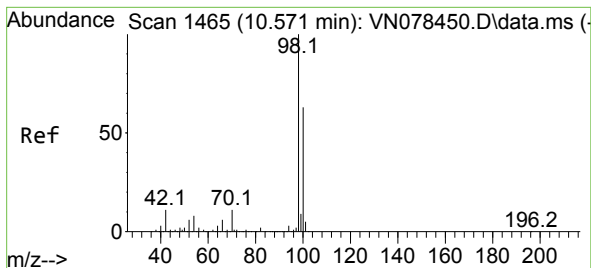
Tgt Ion: 43 Resp: 5530
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#49
1,4-Dioxane
Concen: 0.704 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 478.1 17.0 25.6#
58 0.0 47.0 70.4#

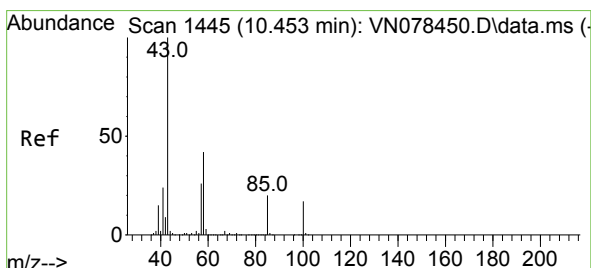
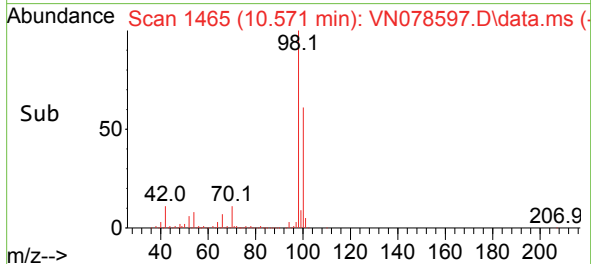
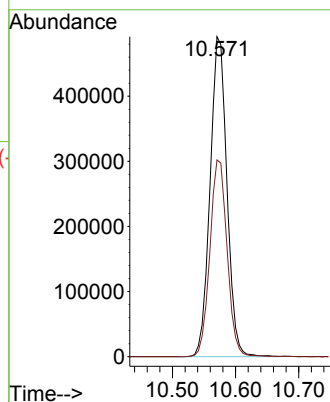
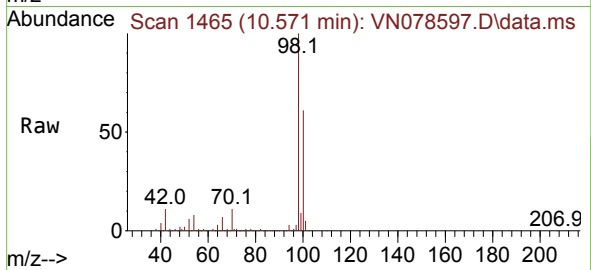




#50
Toluene-d8
Concen: 46.553 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

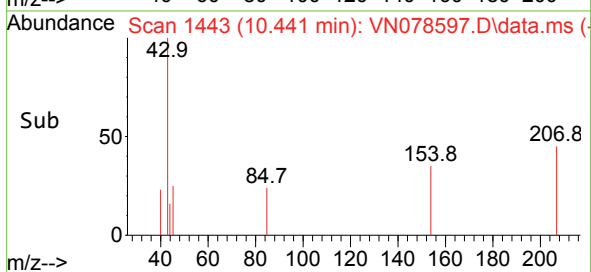
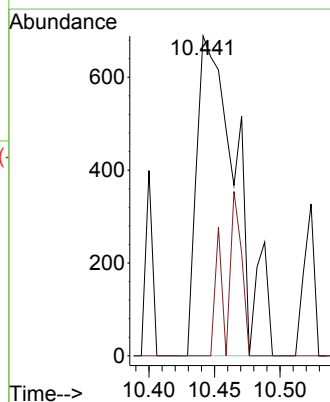
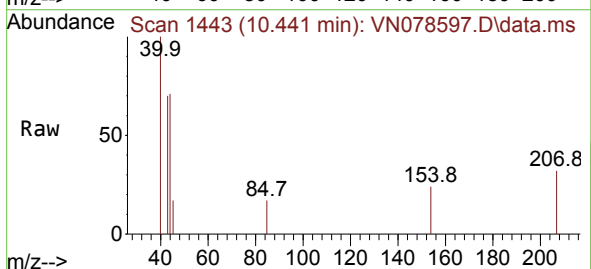
Instrument :
MSVOA_N
ClientSampleId :

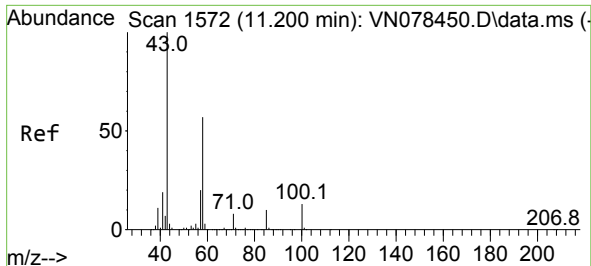
Tgt Ion: 98 Resp: 910475
Ion Ratio Lower Upper
98 100
100 62.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.238 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.012 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Tgt Ion: 43 Resp: 1455
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#

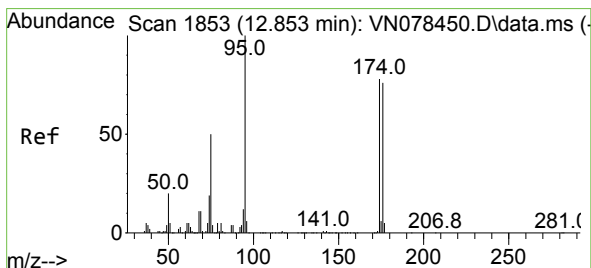
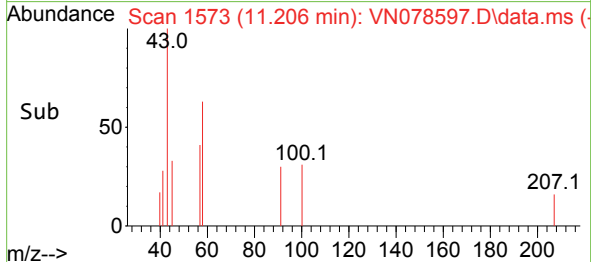
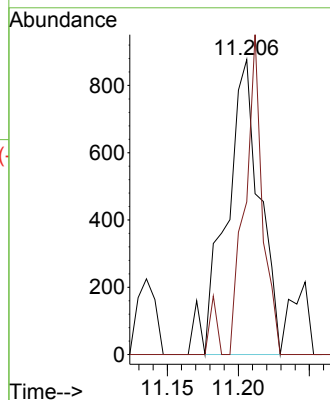
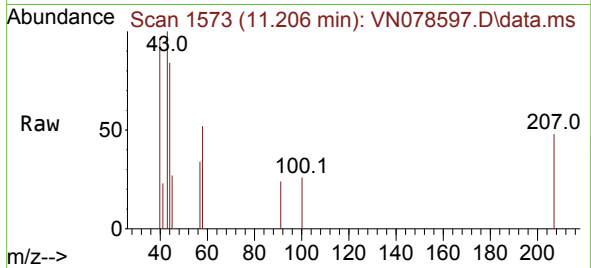




#59
2-Hexanone
Concen: 0.334 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

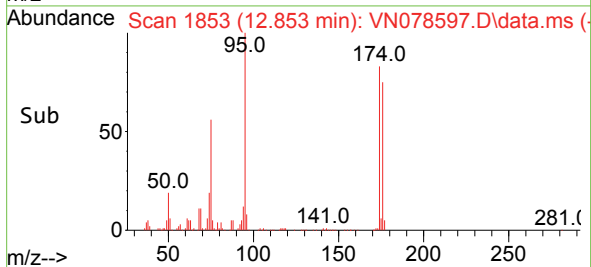
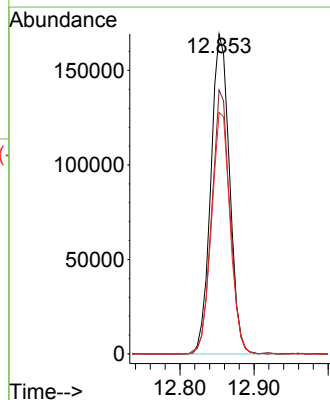
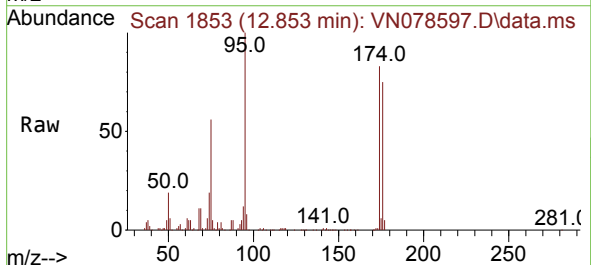
Instrument :
MSVOA_N
ClientSampleId :

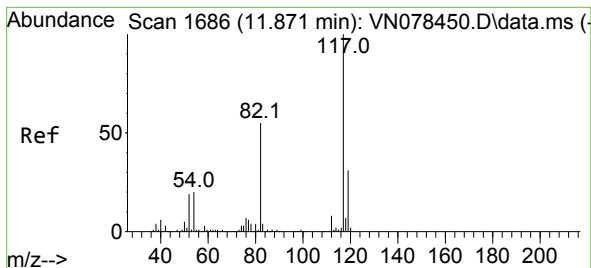
Tgt Ion: 43 Resp: 1450
Ion Ratio Lower Upper
43 100
58 56.1 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 49.192 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

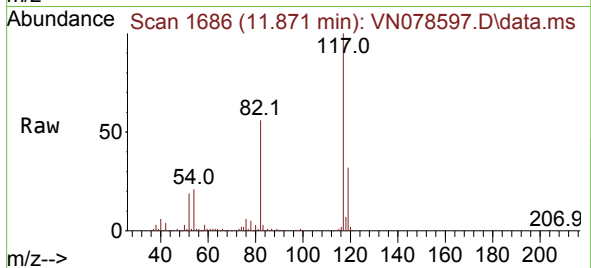
Tgt Ion: 95 Resp: 296344
Ion Ratio Lower Upper
95 100
174 80.2 0.0 143.8
176 75.7 0.0 135.8



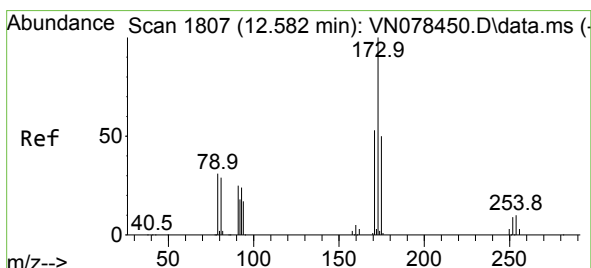
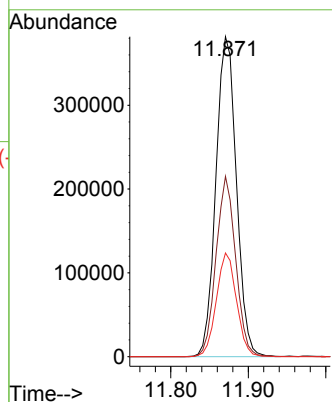
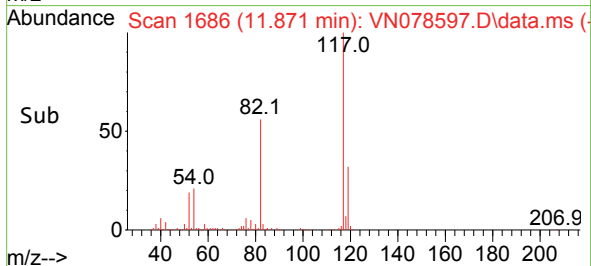


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

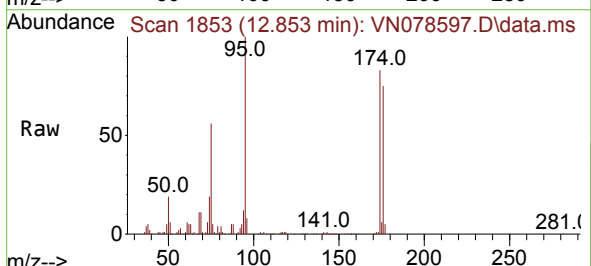
Instrument :
MSVOA_N
ClientSampleId :



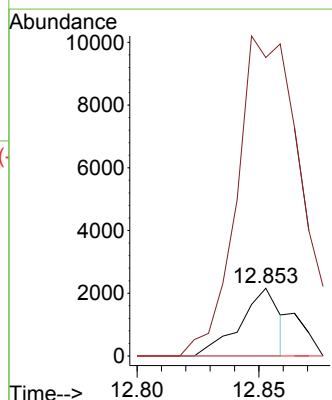
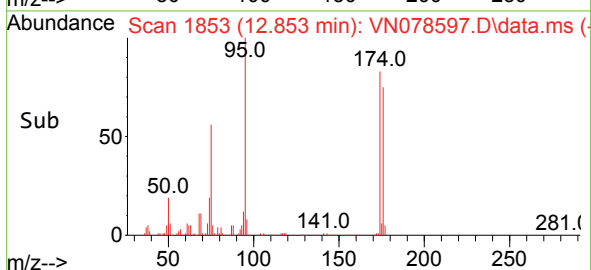
Tgt Ion:117 Resp: 702101
Ion Ratio Lower Upper
117 100
82 56.4 44.0 66.0
119 32.4 25.6 38.4

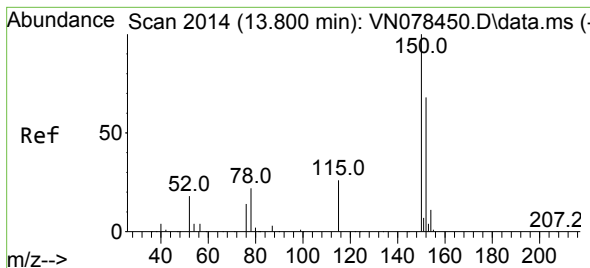


#71
Bromoform
Concen: 0.588 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45



Tgt Ion:173 Resp: 2405
Ion Ratio Lower Upper
173 100
175 414.7 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# 20

Delta R.T. -0.006 min

Lab File: VN078597.D

Acq: 20 Jul 2023 16:45

Instrument :

MSVOA_N

ClientSampleId :

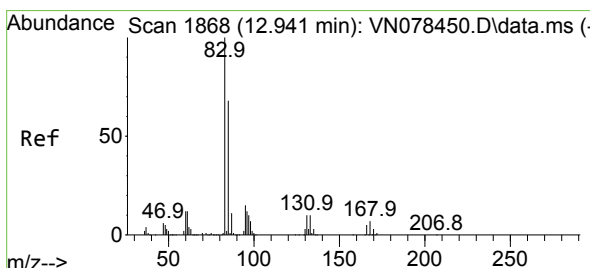
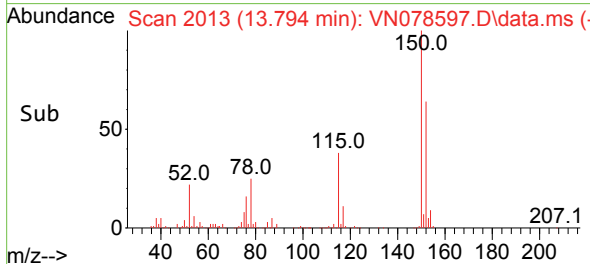
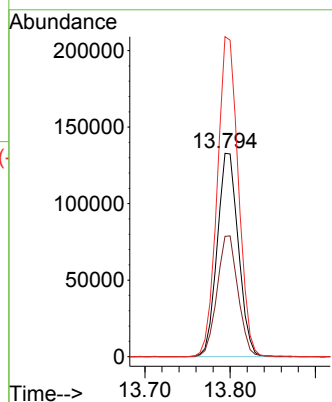
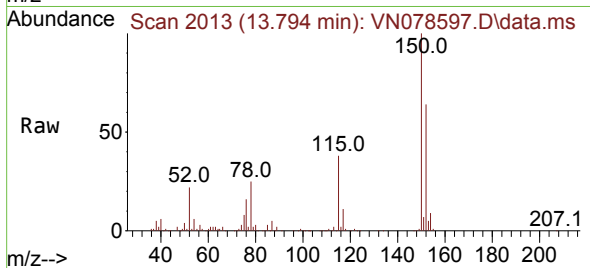
Tgt Ion:152 Resp: 229018

Ion Ratio Lower Upper

152 100

115 59.0 32.3 96.8

150 156.5 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN078597.D

Acq: 20 Jul 2023 16:45

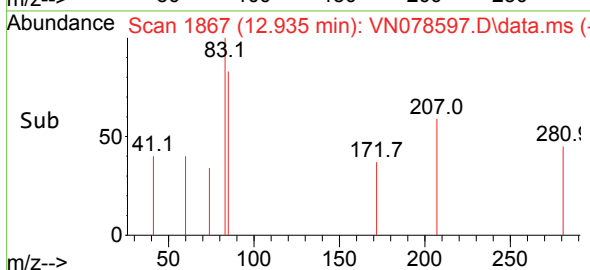
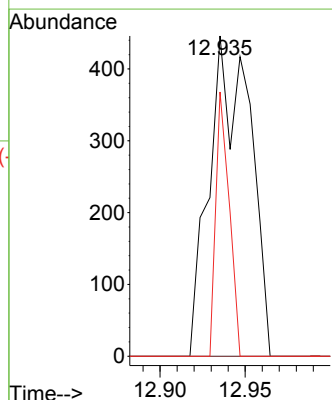
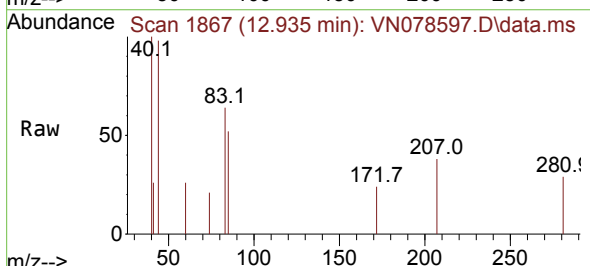
Tgt Ion: 83 Resp: 742

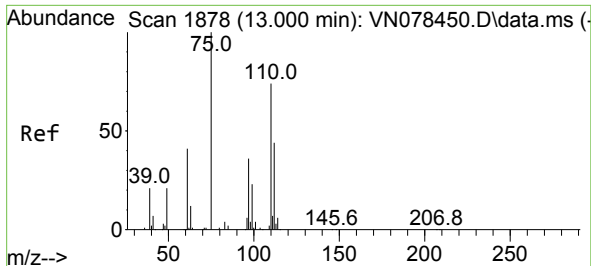
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 27.1 31.9 95.7#

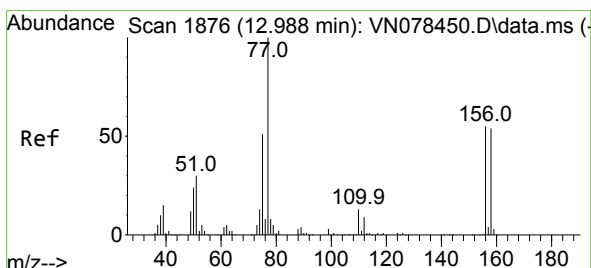
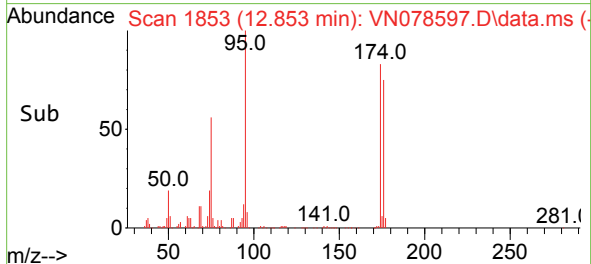
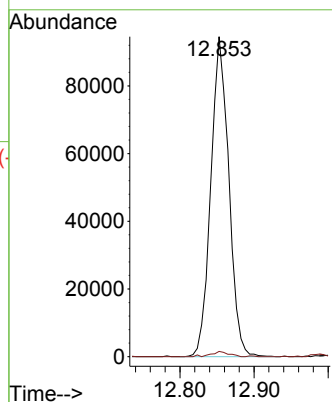
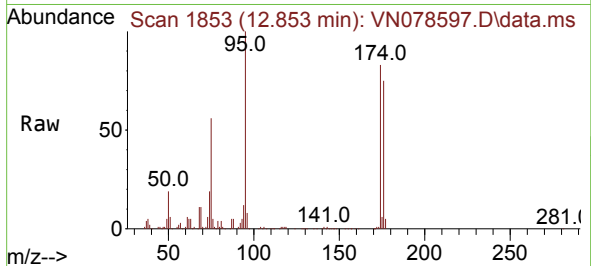




#76
1,2,3-Trichloropropane
Concen: 28.781 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

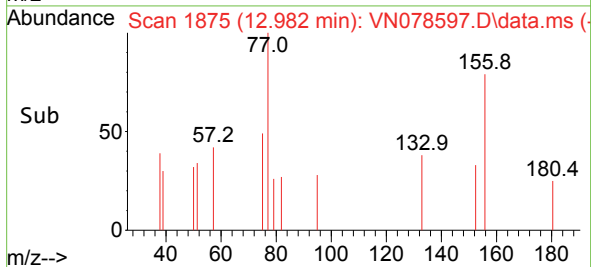
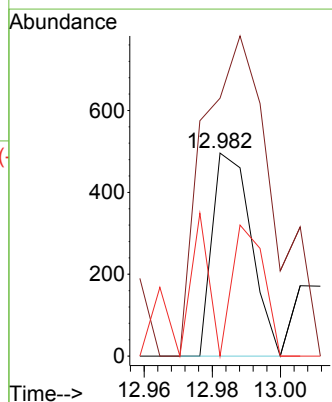
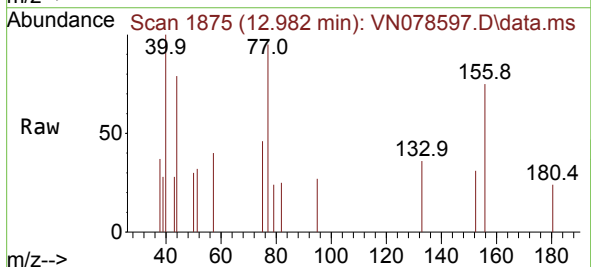
Instrument :
MSVOA_N
ClientSampleId :

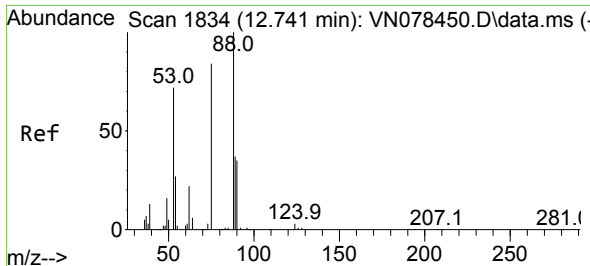
Tgt Ion: 75 Resp: 159324
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#



#77
Bromobenzene
Concen: Below Cal
RT: 12.982 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Tgt Ion:156 Resp: 392
Ion Ratio Lower Upper
156 100
77 298.7 107.7 323.3
158 52.6 48.4 145.3

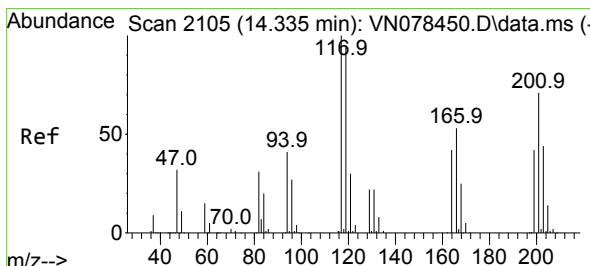
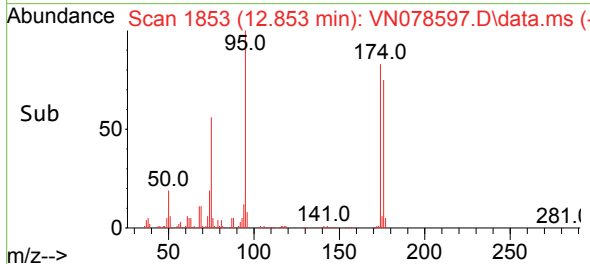
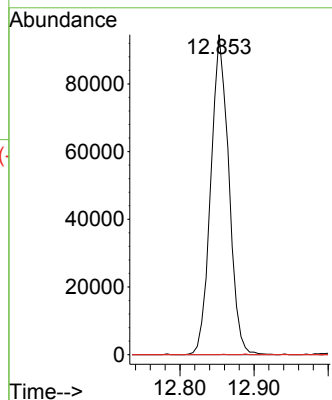
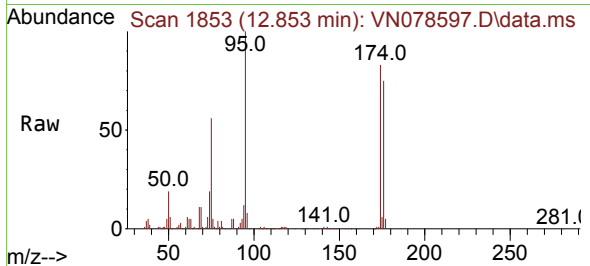




#81
trans-1,4-Dichloro-2-butene
Concen: 75.632 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

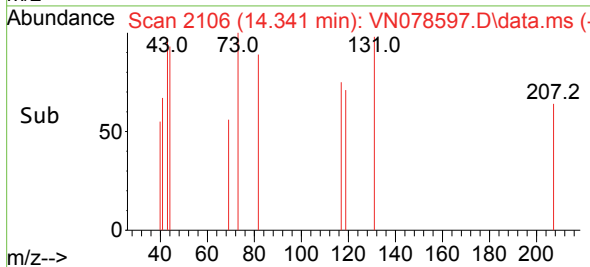
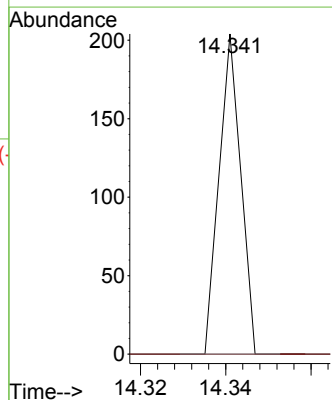
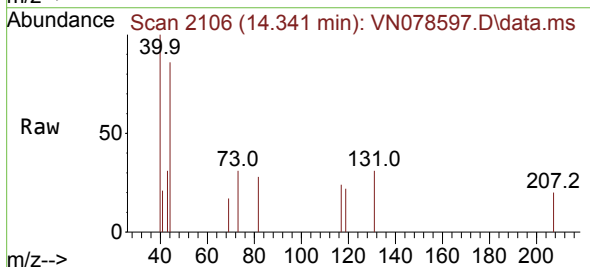
Instrument :
MSVOA_N
ClientSampleId :

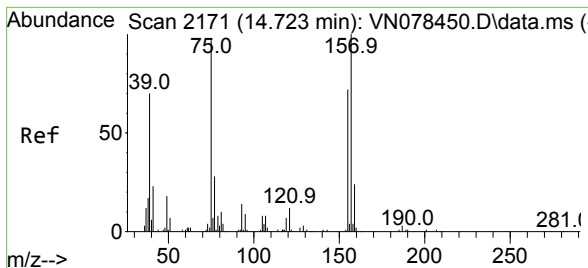
Tgt Ion: 75 Resp: 159324
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

Tgt Ion: 117 Resp: 72
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

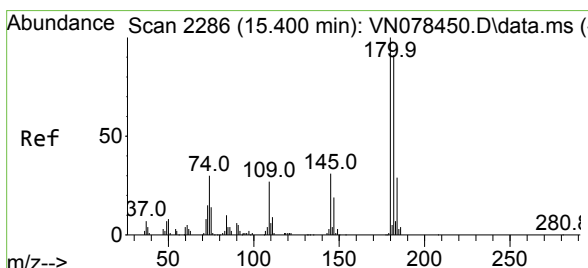
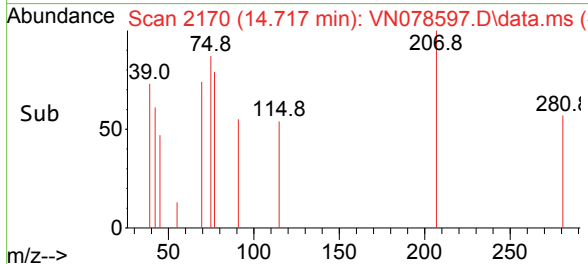
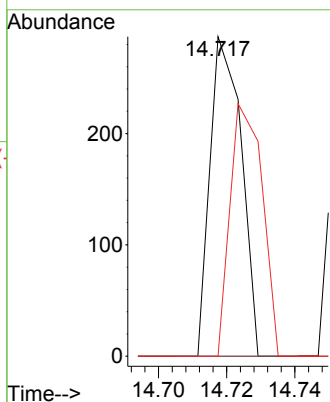
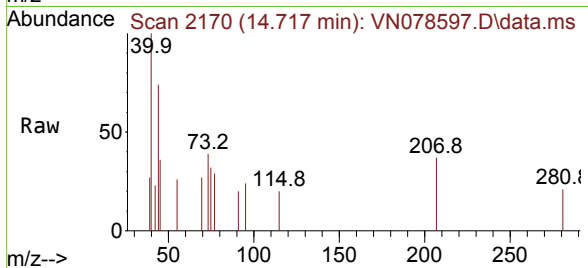




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.717 min Scan# 2171
Delta R.T. -0.006 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

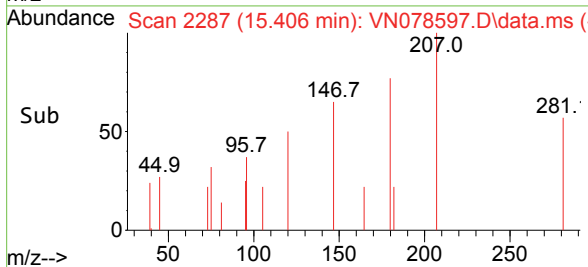
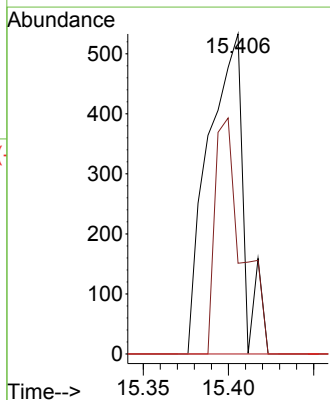
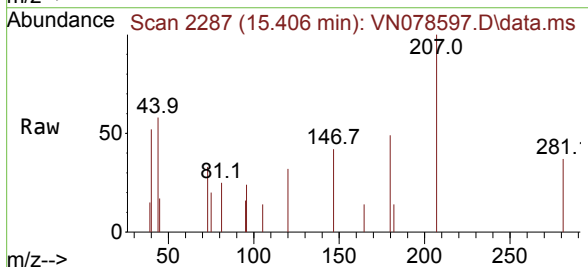
Instrument :
MSVOA_N
ClientSampleId :

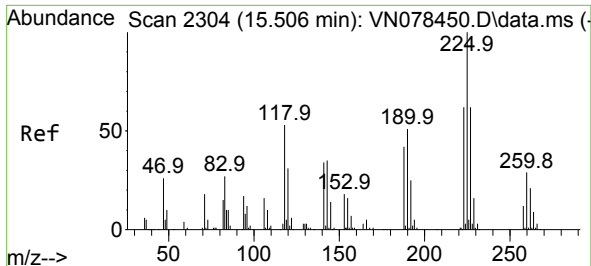
Tgt Ion: 75 Resp: 183
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 80.9 50.3 150.9



#93
1,2,4-Trichlorobenzene
Concen: 0.295 ug/l
RT: 15.406 min Scan# 2287
Delta R.T. 0.006 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

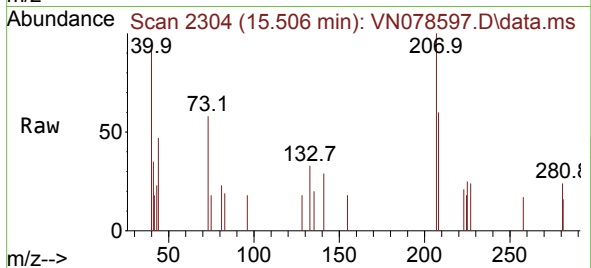
Tgt Ion:180 Resp: 773
Ion Ratio Lower Upper
180 100
182 55.8 46.1 138.2
145 0.0 16.6 49.8#



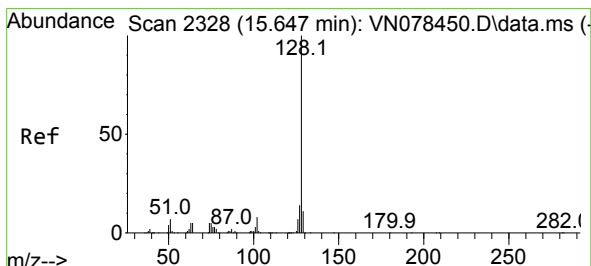
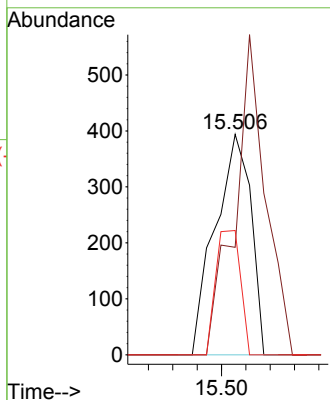
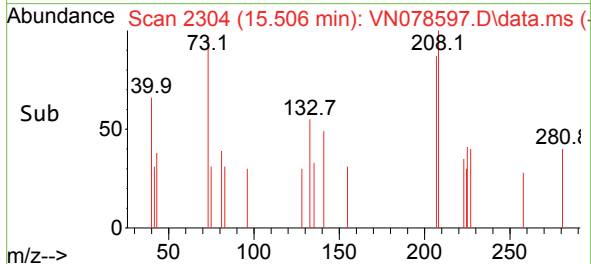


#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.506 min Scan# 2304
Delta R.T. -0.000 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45

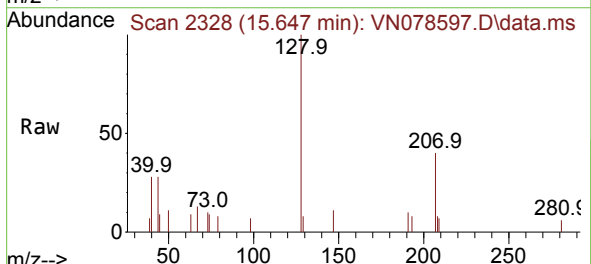
Instrument :
MSVOA_N
ClientSampleId :



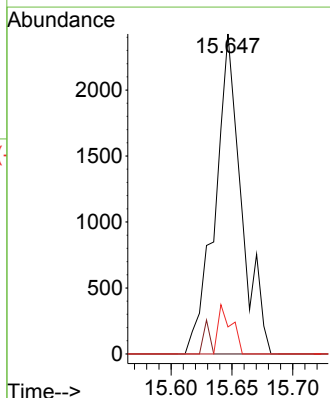
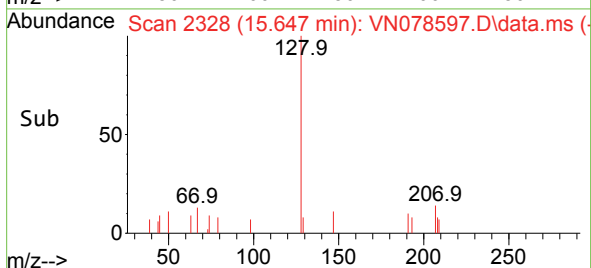
Tgt Ion:225 Resp: 402
Ion Ratio Lower Upper
225 100
223 124.1 31.3 93.8#
227 38.8 31.9 95.9

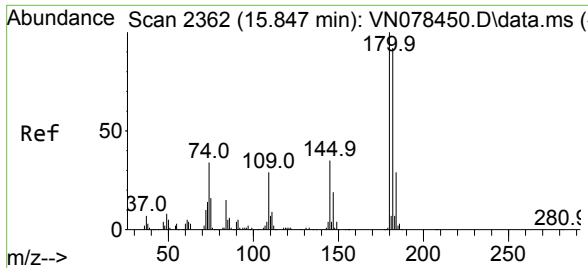


#95
Naphthalene
Concen: 0.408 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078597.D
Acq: 20 Jul 2023 16:45



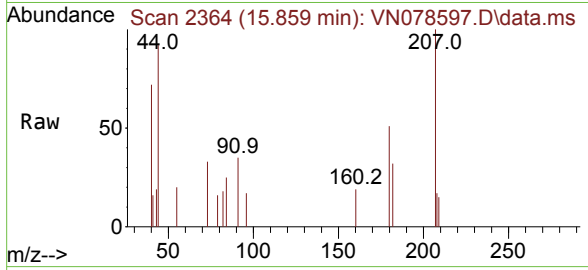
Tgt Ion:128 Resp: 3663
Ion Ratio Lower Upper
128 100
127 2.5 10.0 15.0#
129 7.9 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.296 ug/l
 RT: 15.859 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN078597.D
 Acq: 20 Jul 2023 16:45

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.2	138.6#
145	7.8	17.5	52.6#

