

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031323\
 Data File : VN076970.D
 Acq On : 13 Mar 2023 18:33
 Operator : JC\MD
 Sample : 01880-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D1-20230310

Quant Time: Mar 14 07:06:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 10 13:47:39 2023
 Response via : Initial Calibration

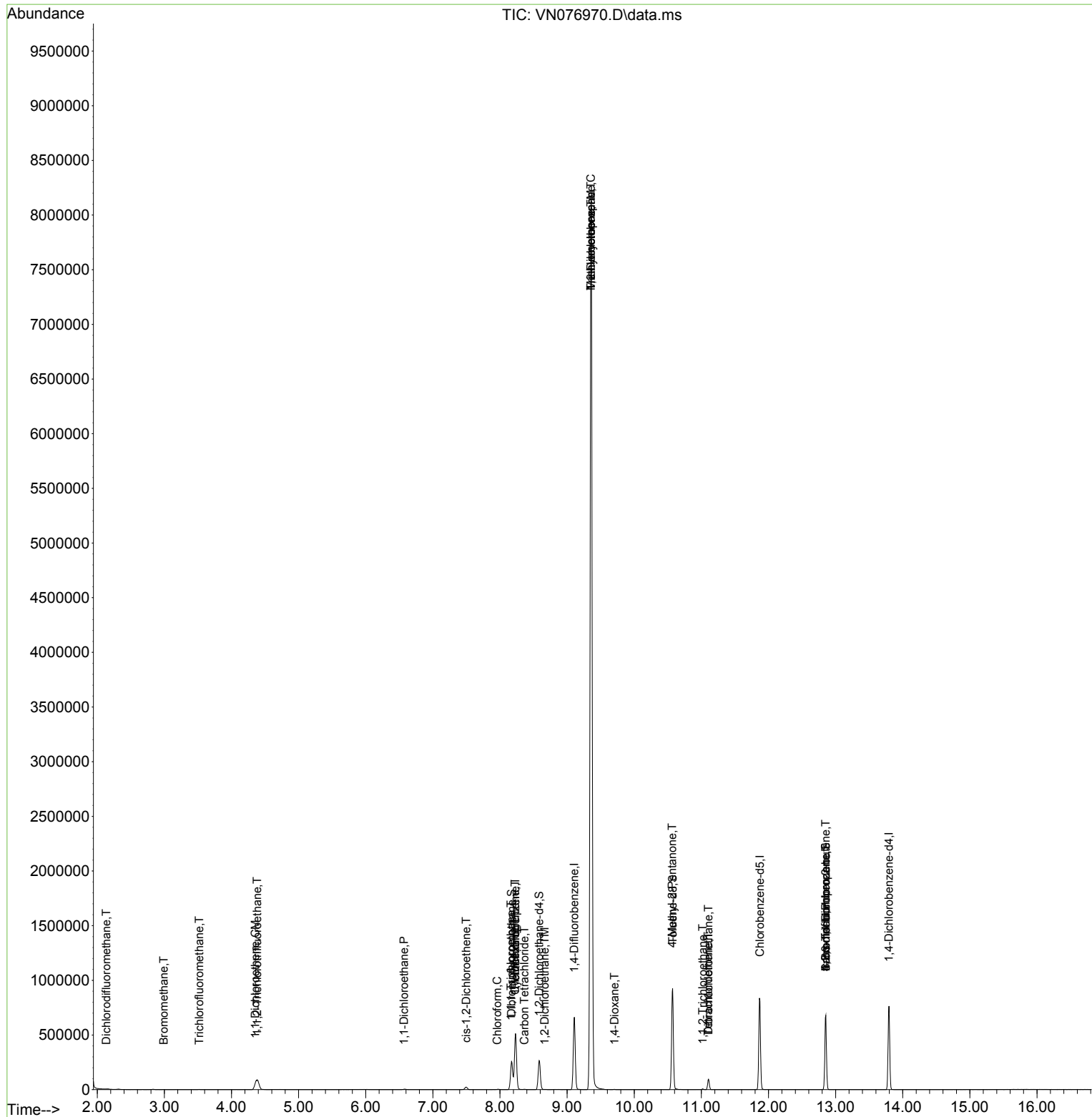
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.231	168	349919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	556259	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	482330	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	203671	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	248013	47.496	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.000%
35) Dibromofluoromethane	8.172	113	178476	48.142	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.280%
50) Toluene-d8	10.572	98	647069	47.359	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.720%
62) 4-Bromofluorobenzene	12.854	95	236661	47.356	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.720%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	1598	0.254	ug/l #	60
5) Bromomethane	2.990	94	579	0.249	ug/l #	38
7) Trichlorofluoromethane	3.519	101	1765	0.215	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.384	101	50659	12.071	ug/l	93
12) 1,1-Dichloroethene	4.354	96	23870	6.171	ug/l	95
24) 1,1-Dichloroethane	6.572	63	6508	0.830	ug/l #	80
27) cis-1,2-Dichloroethene	7.495	96	15192	3.211	ug/l	98
30) Chloroform	7.960	83	2096	0.249	ug/l	84
31) Cyclohexane	8.225	56	7852	1.048	ug/l #	45
32) 1,1,1-Trichloroethane	8.166	97	2900	0.367	ug/l #	42
36) 1,1-Dichloropropene	8.225	75	28992	5.056	ug/l #	50
38) Carbon Tetrachloride	8.366	117	2619	0.390	ug/l	97
39) Methylcyclohexane	9.354	83	38054	5.467	ug/l #	1
42) 1,2-Dichloroethane	8.666	62	1726	0.262	ug/l #	71
44) Trichloroethene	9.354	130	2946419	674.576	ug/l	99
45) 1,2-Dichloropropane	9.354	63	10306	2.478	ug/l #	1
49) 1,4-Dioxane	9.707	88	1957	26.060	ug/l #	93
51) 4-Methyl-2-Pentanone	10.566	43	2713	0.558	ug/l #	1
55) 1,1,2-Trichloroethane	11.019	97	2826	0.698	ug/l #	70
60) Dibromochloromethane	11.107	129	21854	4.901	ug/l #	10
64) Tetrachloroethene	11.101	164	19930	5.105	ug/l	93
71) Bromoform	12.854	173	635	0.208	ug/l #	1
76) 1,2,3-Trichloropropane	12.854	75	133753	27.087	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	133753	88.480	ug/l #	15

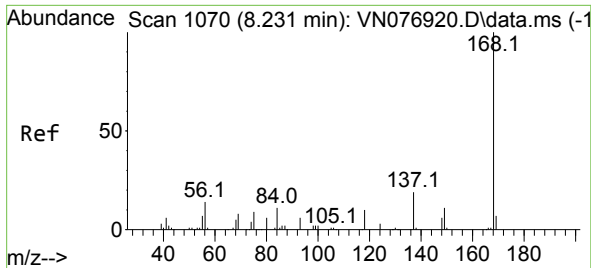
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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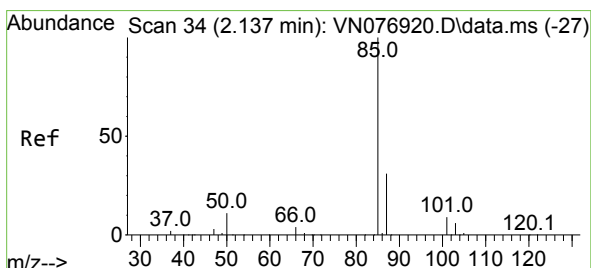
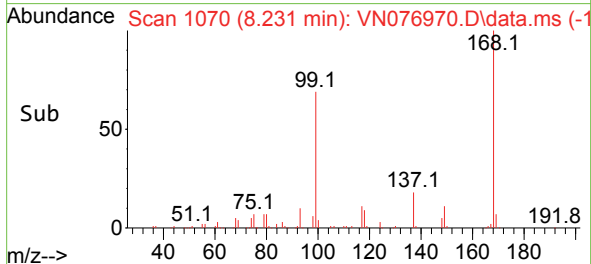
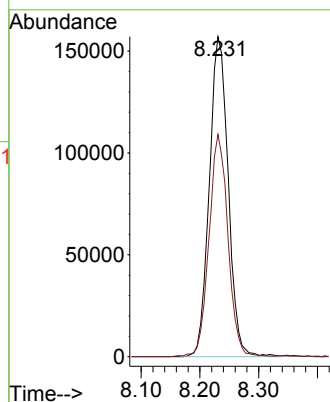
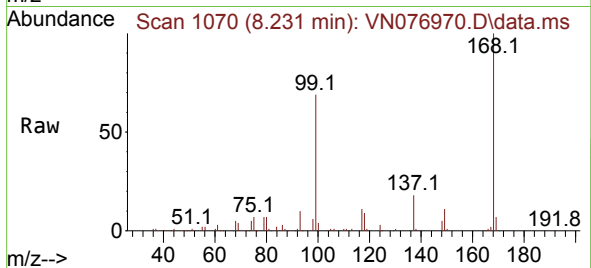




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

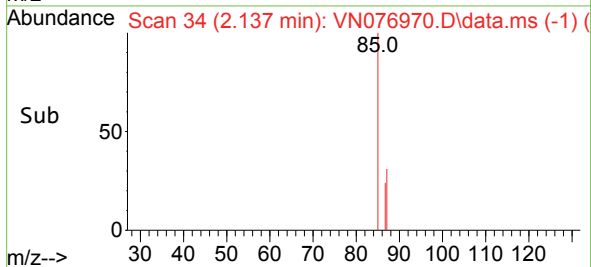
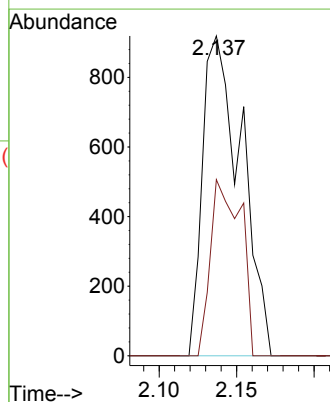
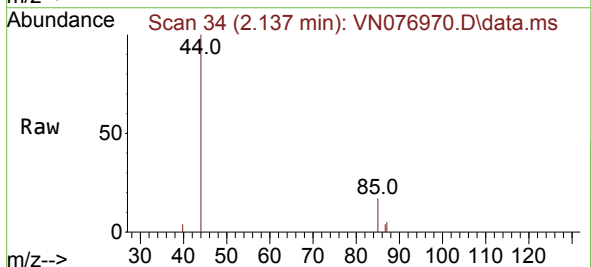
Instrument :
MSVOA_N
ClientSampleId :
RE120D1-20230310

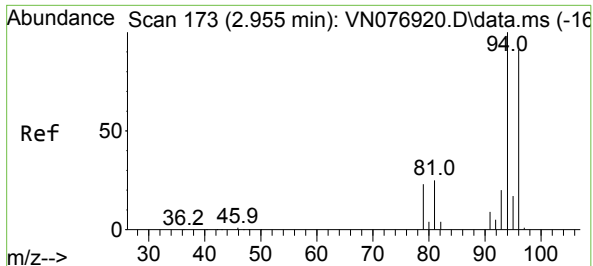
Tgt Ion:168 Resp: 349919
Ion Ratio Lower Upper
168 100
99 69.2 48.6 73.0



#2
Dichlorodifluoromethane
Concen: 0.254 ug/l
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion: 85 Resp: 1598
Ion Ratio Lower Upper
85 100
87 55.1 16.2 48.6#

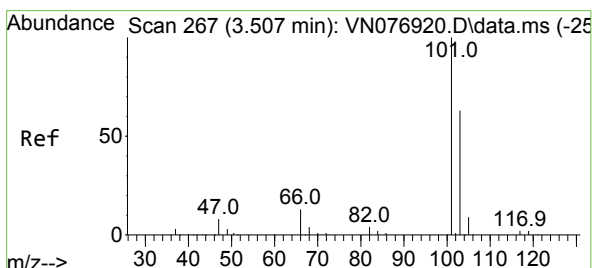
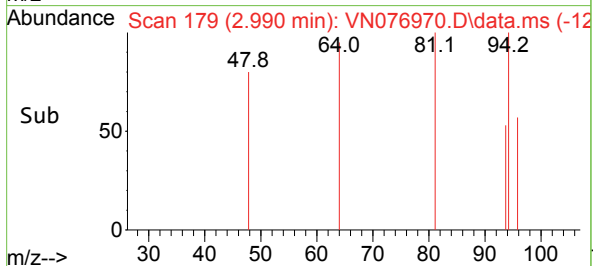
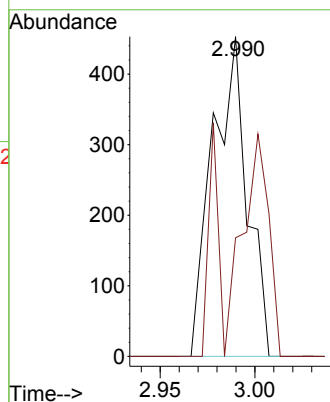
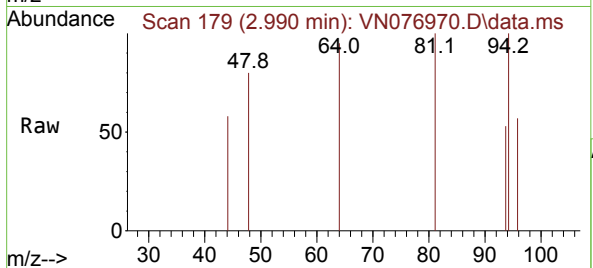




#5
Bromomethane
Concen: 0.249 ug/l
RT: 2.990 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

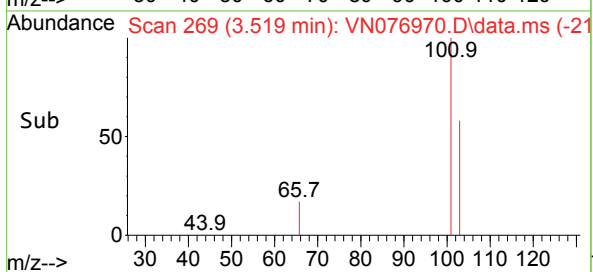
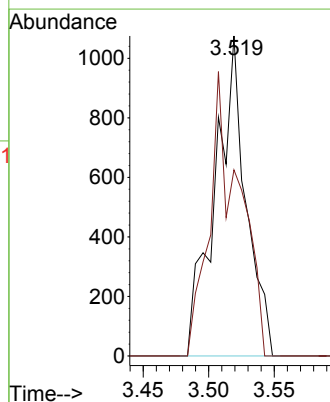
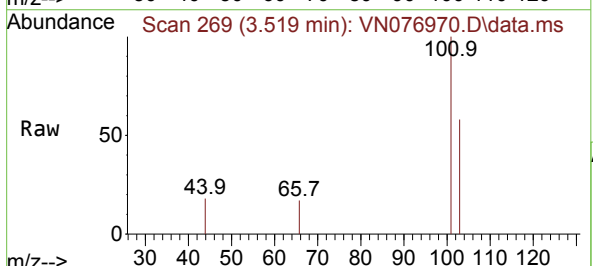
Instrument :
MSVOA_N
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RE120D1-20230310

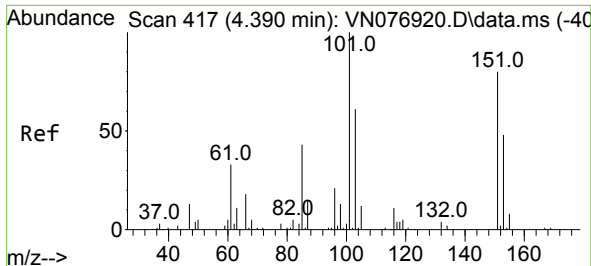
Tgt Ion: 94 Resp: 579
Ion Ratio Lower Upper
94 100
96 37.1 79.0 118.6#



#7
Trichlorofluoromethane
Concen: 0.215 ug/l
RT: 3.519 min Scan# 269
Delta R.T. 0.012 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion:101 Resp: 1765
Ion Ratio Lower Upper
101 100
103 58.1 53.4 80.0

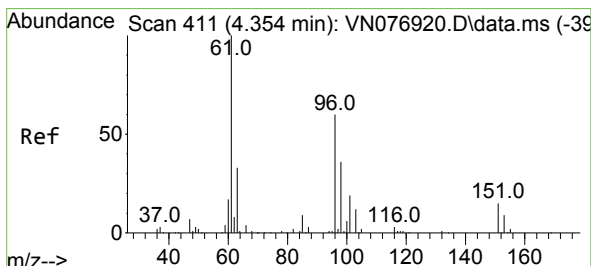
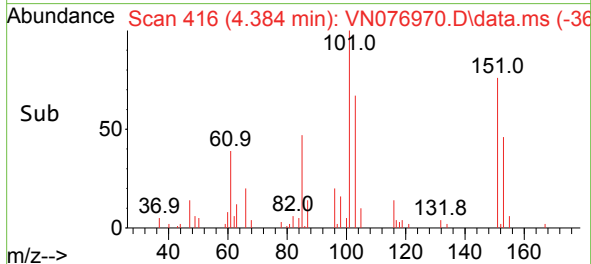
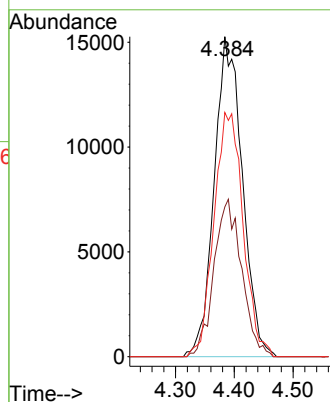
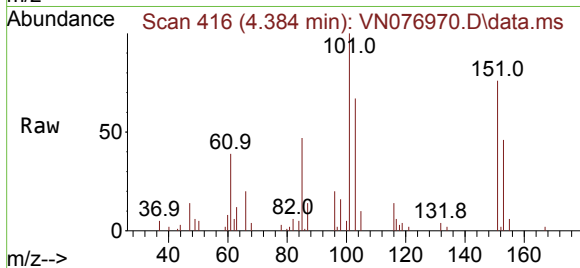




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.071 ug/l
 RT: 4.384 min Scan# 417
 Delta R.T. -0.006 min
 Lab File: VN076970.D
 Acq: 13 Mar 2023 18:33

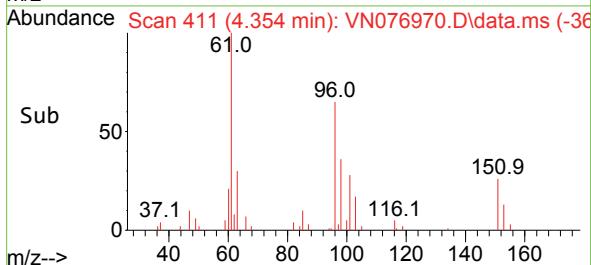
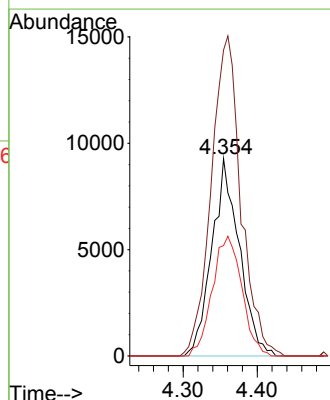
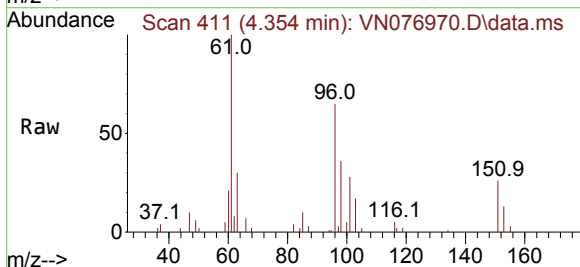
Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D1-20230310

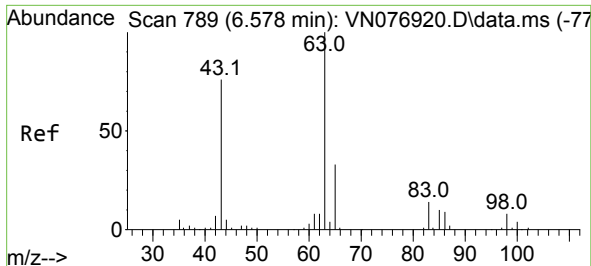
Tgt Ion:101 Resp: 50659
 Ion Ratio Lower Upper
 101 100
 85 48.6 35.2 52.8
 151 79.3 58.9 88.3



#12
 1,1-Dichloroethene
 Concen: 6.171 ug/l
 RT: 4.354 min Scan# 411
 Delta R.T. 0.000 min
 Lab File: VN076970.D
 Acq: 13 Mar 2023 18:33

Tgt Ion: 96 Resp: 23870
 Ion Ratio Lower Upper
 96 100
 61 154.9 121.3 181.9
 98 55.9 52.1 78.1

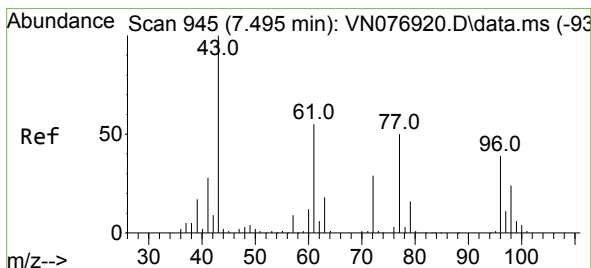
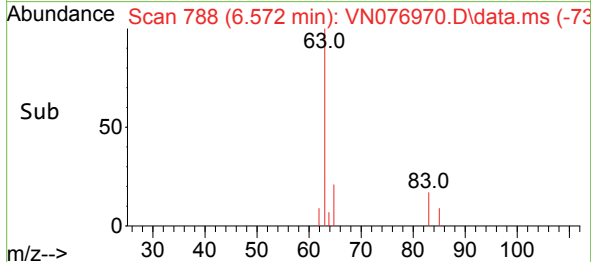
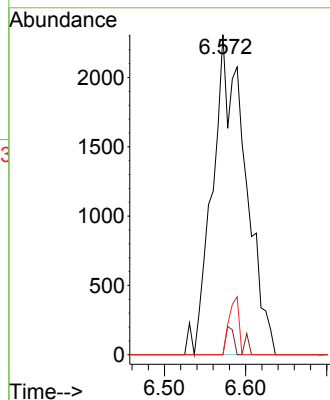
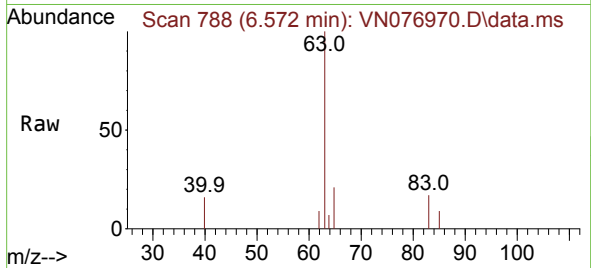




#24
1,1-Dichloroethane
Concen: 0.830 ug/l
RT: 6.572 min Scan# 71
Delta R.T. -0.006 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

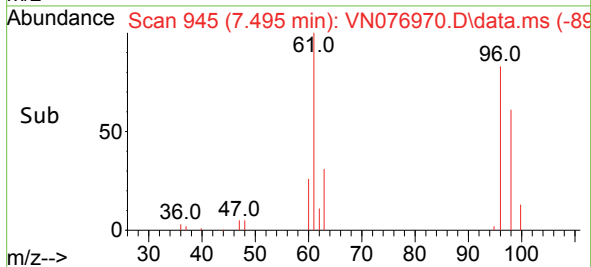
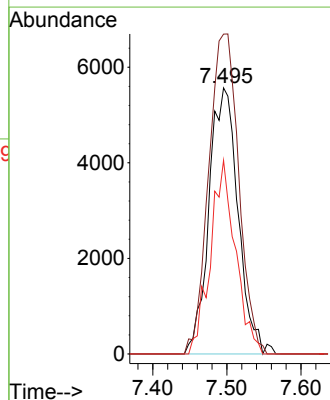
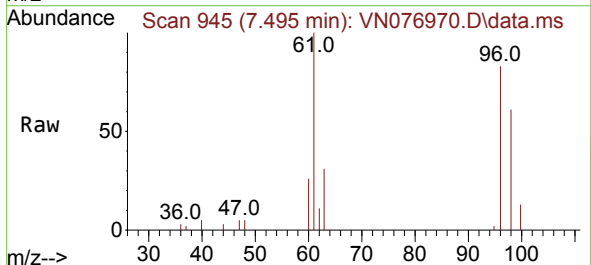
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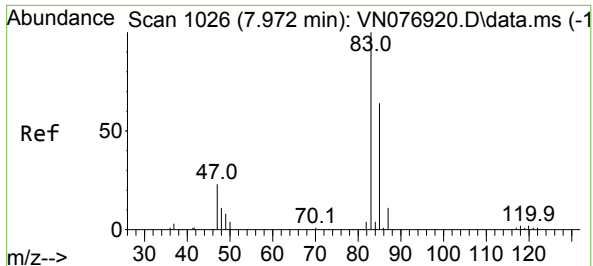
Tgt Ion: 63 Resp: 6508
Ion Ratio Lower Upper
63 100
98 0.0 4.2 12.6#
100 0.0 2.2 6.6#



#27
cis-1,2-Dichloroethene
Concen: 3.211 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.000 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion: 96 Resp: 15192
Ion Ratio Lower Upper
96 100
61 124.4 0.0 255.6
98 62.7 0.0 127.4





#30

Chloroform

Concen: 0.249 ug/l

RT: 7.960 min Scan# 1026

Delta R.T. -0.012 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Instrument :

MSVOA_N

ClientSampleId :

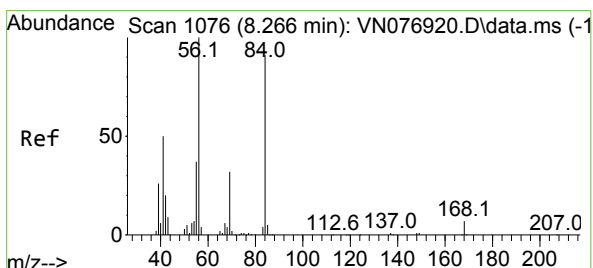
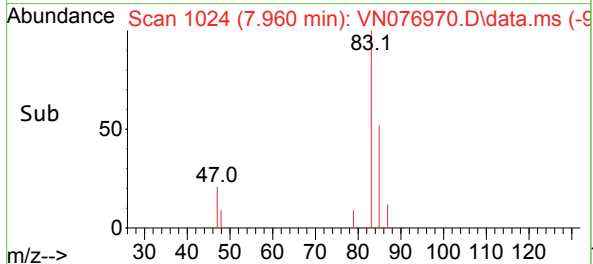
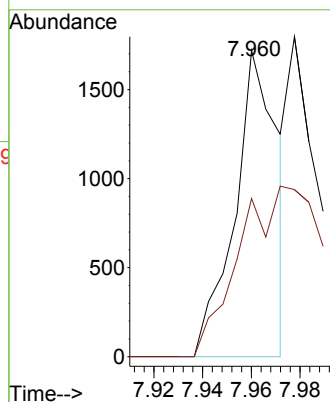
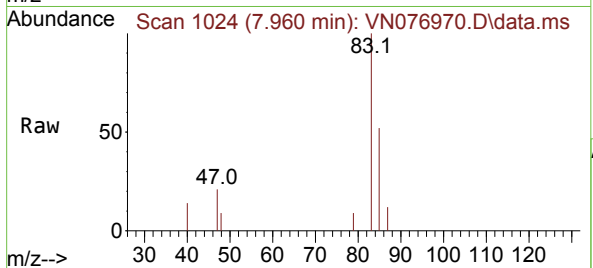
RE120D1-20230310

Tgt Ion: 83 Resp: 2096

Ion Ratio Lower Upper

83 100

85 51.7 51.3 76.9



#31

Cyclohexane

Concen: 1.048 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.041 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

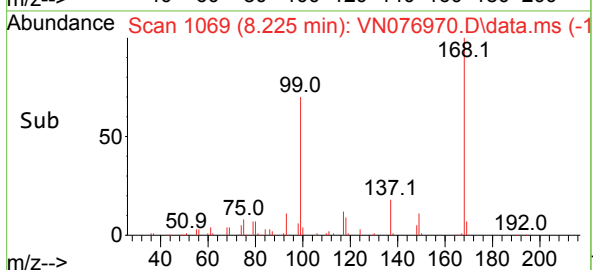
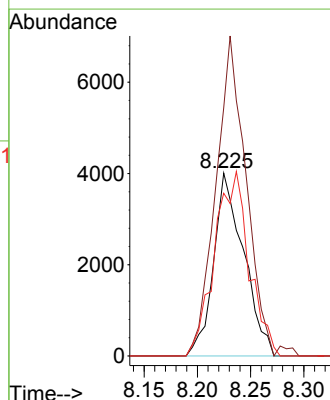
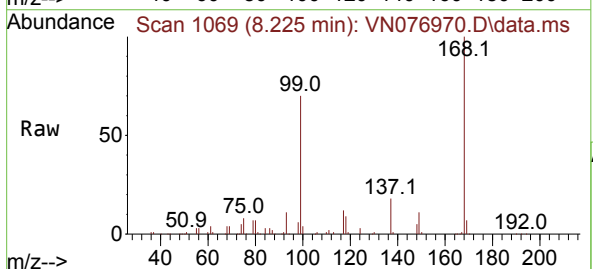
Tgt Ion: 56 Resp: 7852

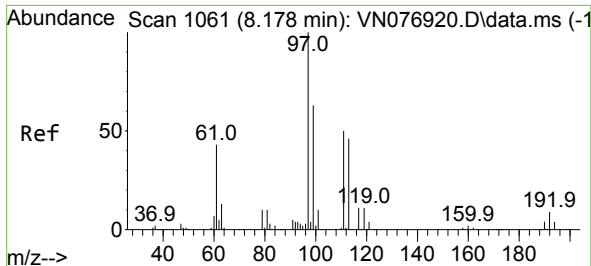
Ion Ratio Lower Upper

56 100

69 135.6 27.0 40.6#

84 89.0 82.9 124.3

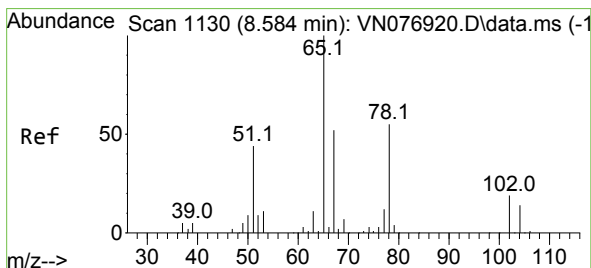
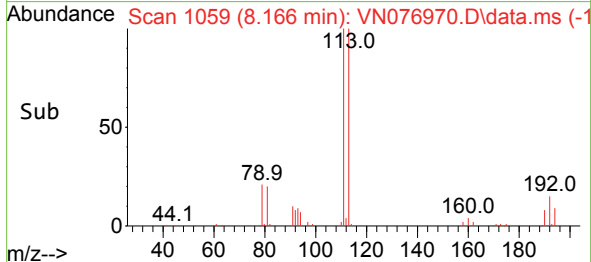
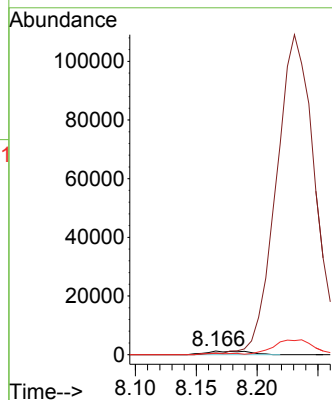
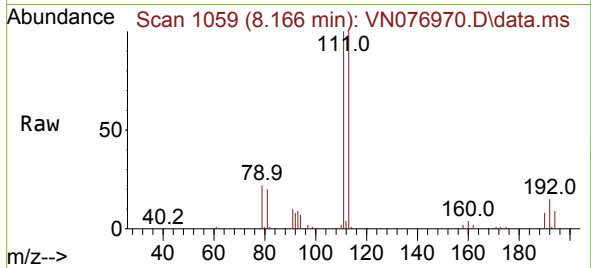




#32
1,1,1-Trichloroethane
Concen: 0.367 ug/l
RT: 8.166 min Scan# 1059
Delta R.T. -0.012 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

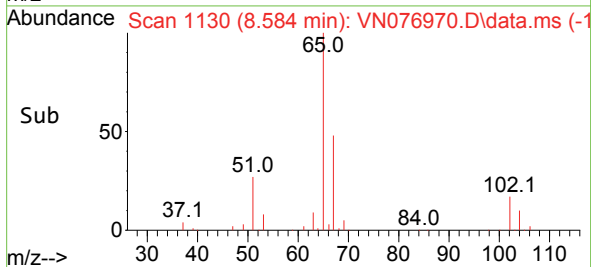
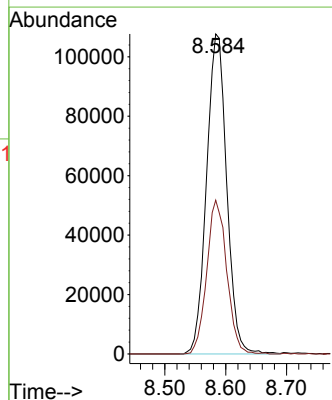
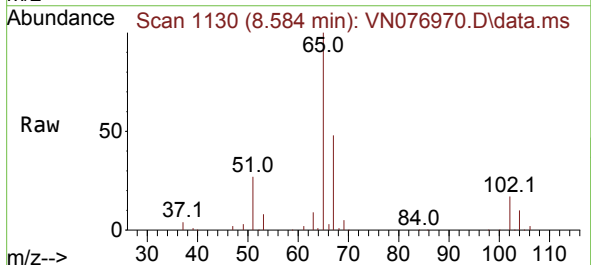
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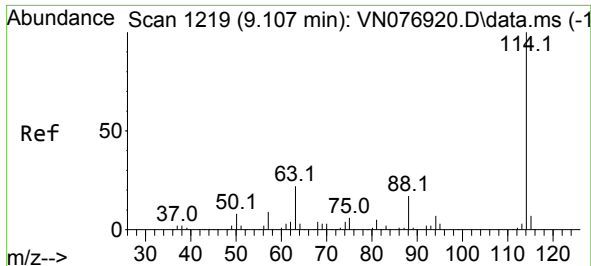
Tgt Ion: 97 Resp: 2900
Ion Ratio Lower Upper
97 100
99 0.0 51.2 76.8#
61 29.0 35.7 53.5#



#33
1,2-Dichloroethane-d4
Concen: 47.496 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion: 65 Resp: 248013
Ion Ratio Lower Upper
65 100
67 47.7 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE120D1-20230310

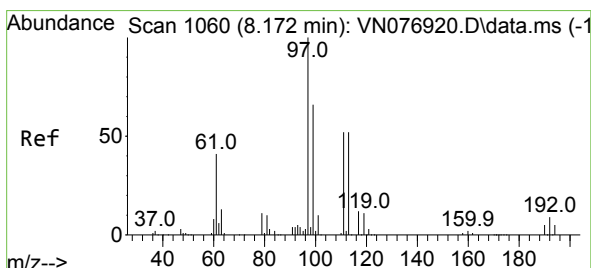
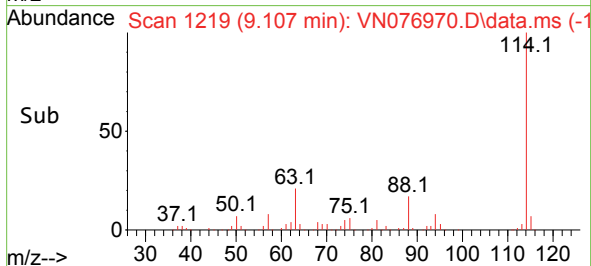
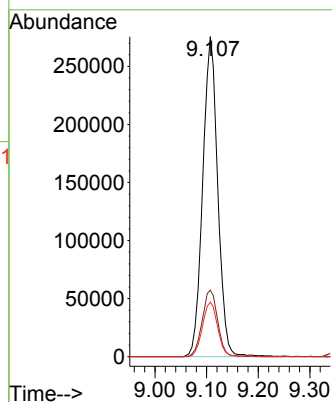
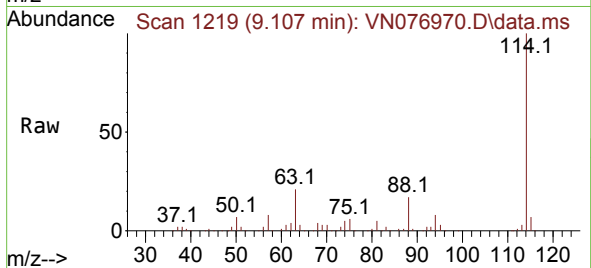
Tgt Ion:114 Resp: 556259

Ion Ratio Lower Upper

114 100

63 20.8 0.0 36.6

88 17.1 0.0 28.6



#35

Dibromofluoromethane

Concen: 48.142 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

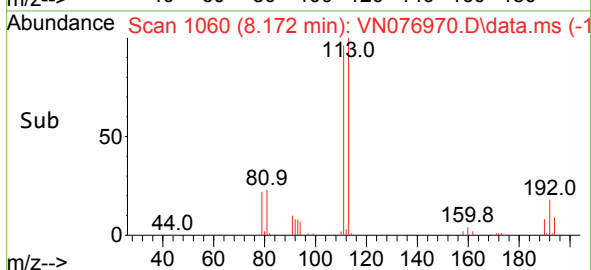
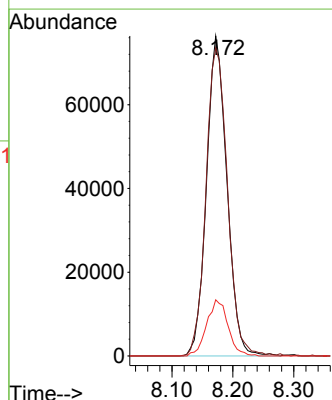
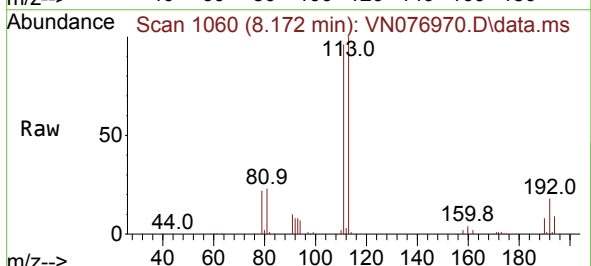
Tgt Ion:113 Resp: 178476

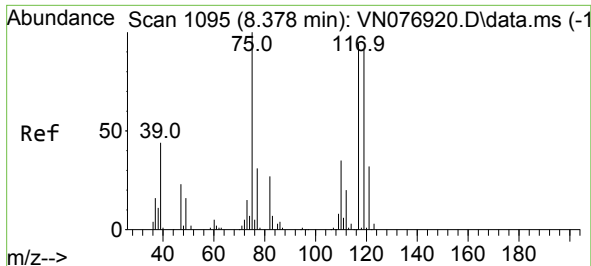
Ion Ratio Lower Upper

113 100

111 101.3 81.8 122.8

192 18.3 13.9 20.9





#36

1,1-Dichloropropene

Concen: 5.056 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE120D1-20230310

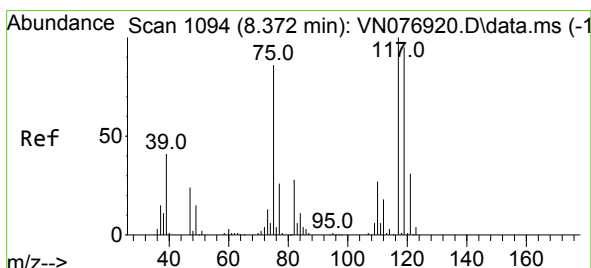
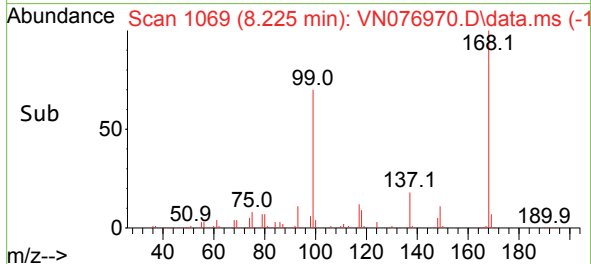
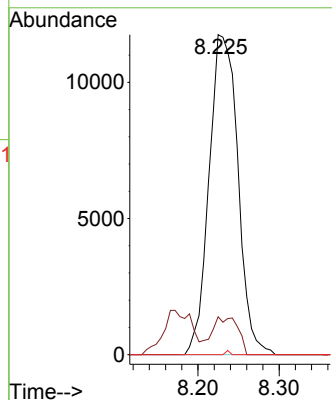
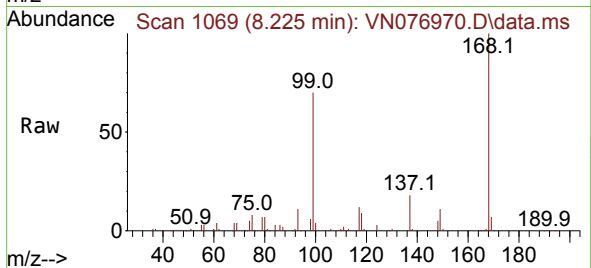
Tgt Ion: 75 Resp: 28992

Ion Ratio Lower Upper

75 100

110 10.3 18.9 56.9#

77 0.2 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 0.390 ug/l

RT: 8.366 min Scan# 1093

Delta R.T. -0.006 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

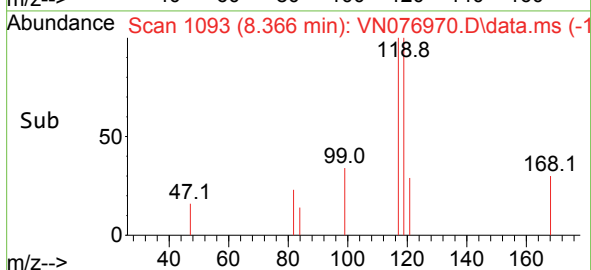
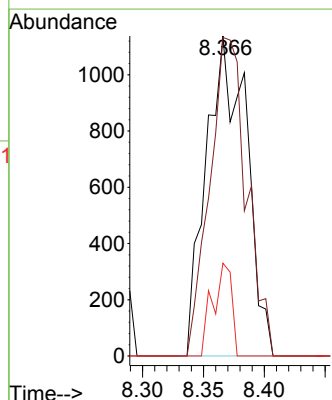
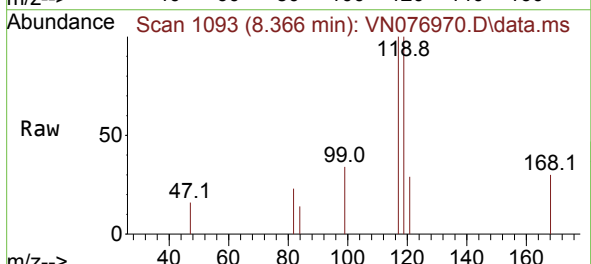
Tgt Ion: 117 Resp: 2619

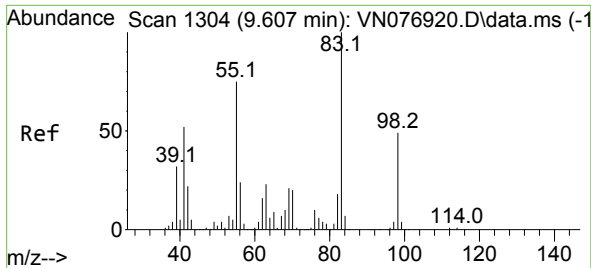
Ion Ratio Lower Upper

117 100

119 99.6 76.9 115.3

121 29.0 23.2 34.8

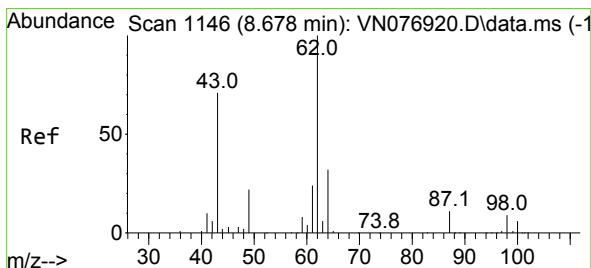
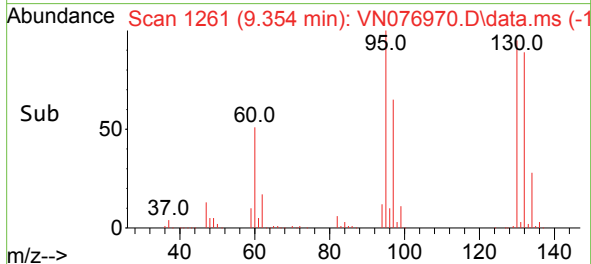
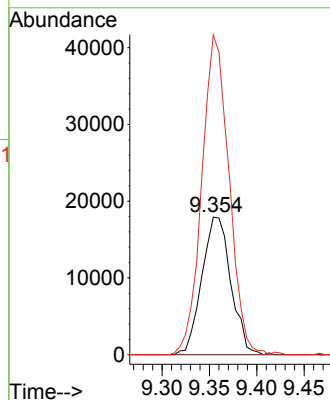
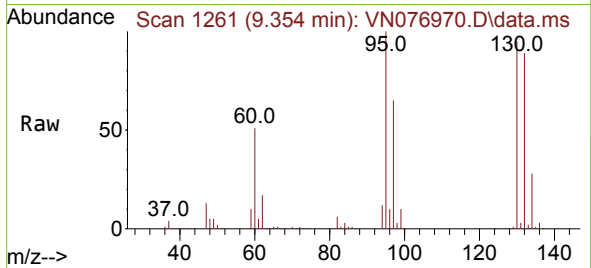




#39
Methylcyclohexane
Concen: 5.467 ug/l
RT: 9.354 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

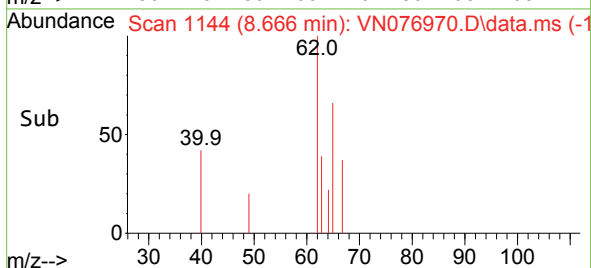
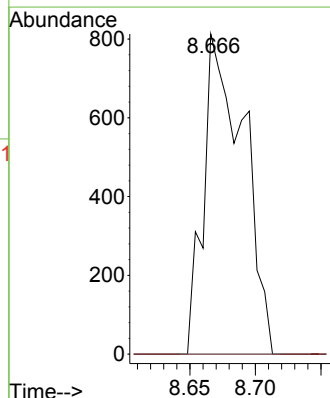
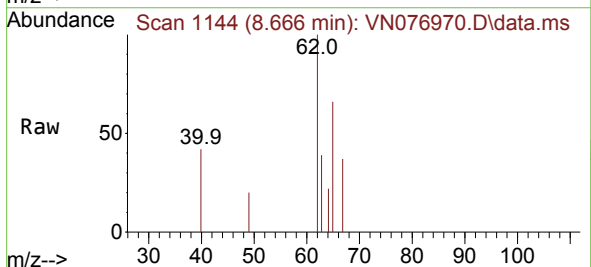
Instrument :
MSVOA_N
ClientSampleId :
RE120D1-20230310

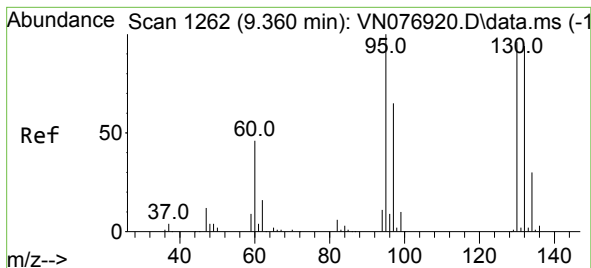
Tgt Ion: 83 Resp: 38054
Ion Ratio Lower Upper
83 100
55 0.0 47.0 70.4#
98 231.1 39.4 59.0#



#42
1,2-Dichloroethane
Concen: 0.262 ug/l
RT: 8.666 min Scan# 1144
Delta R.T. -0.012 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion: 62 Resp: 1726
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.8





#44

Trichloroethene

Concen: 674.576 ug/l

RT: 9.354 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Instrument :

MSVOA_N

ClientSampleId :

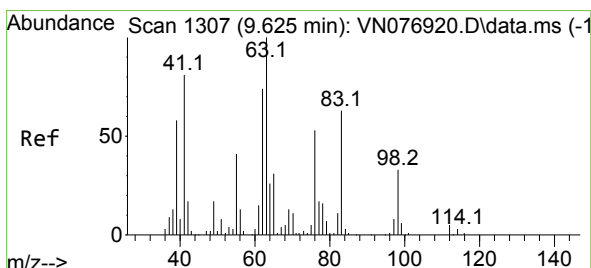
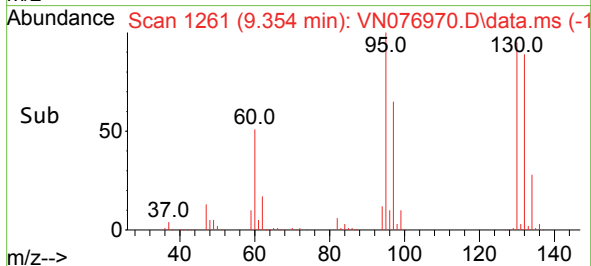
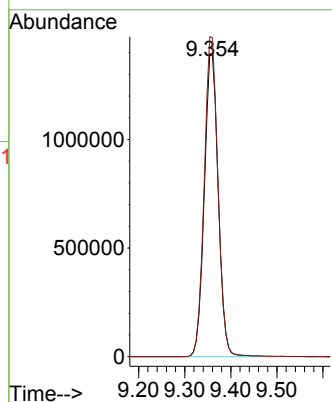
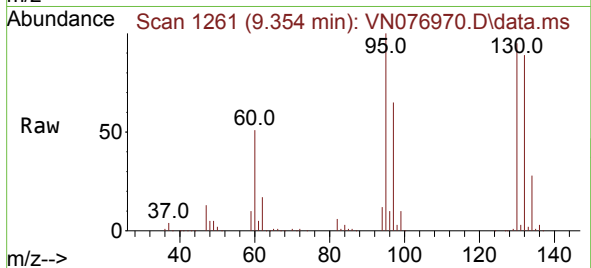
RE120D1-20230310

Tgt Ion:130 Resp: 2946419

Ion Ratio Lower Upper

130 100

95 105.6 0.0 208.6



#45

1,2-Dichloropropane

Concen: 2.478 ug/l

RT: 9.354 min Scan# 1261

Delta R.T. -0.271 min

Lab File: VN076970.D

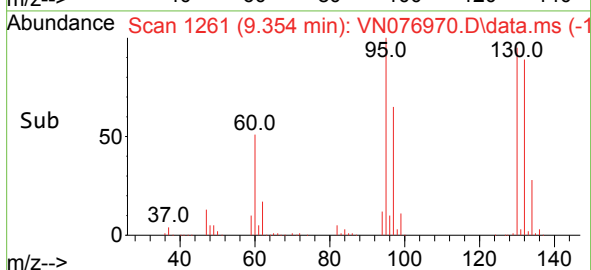
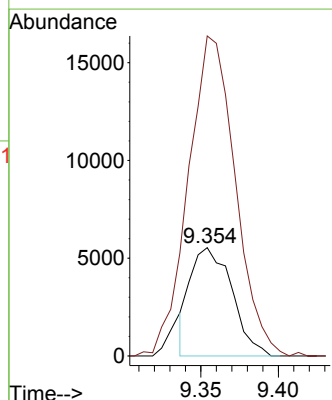
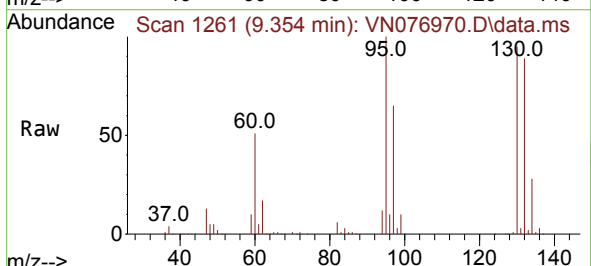
Acq: 13 Mar 2023 18:33

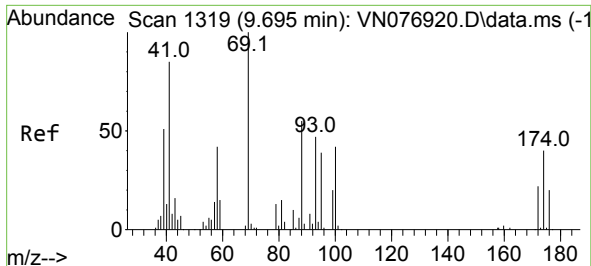
Tgt Ion: 63 Resp: 10306

Ion Ratio Lower Upper

63 100

65 291.2 25.0 37.6#





#49

1,4-Dioxane

Concen: 26.060 ug/l

RT: 9.707 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE120D1-20230310

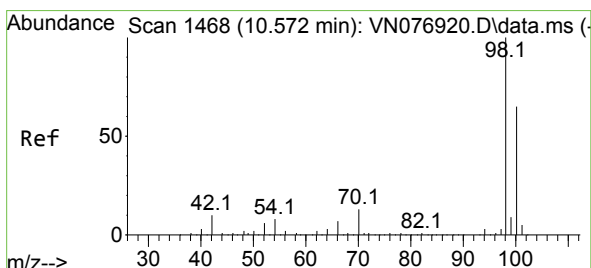
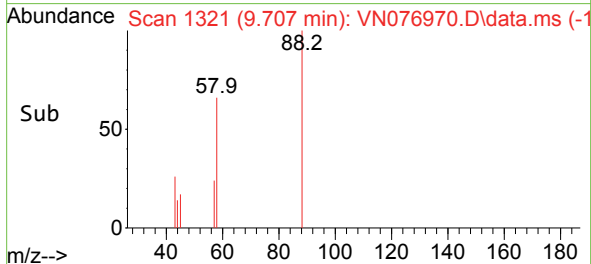
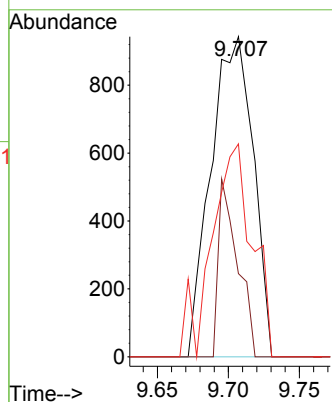
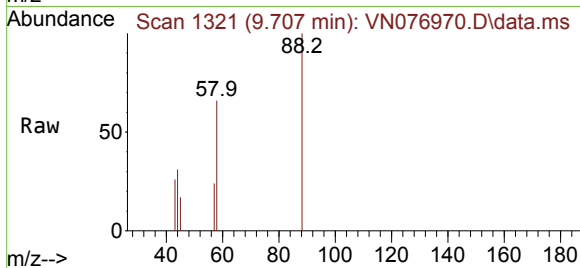
Tgt Ion: 88 Resp: 1957

Ion Ratio Lower Upper

88 100

43 25.1 15.3 22.9#

58 63.7 47.6 71.4



#50

Toluene-d8

Concen: 47.359 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN076970.D

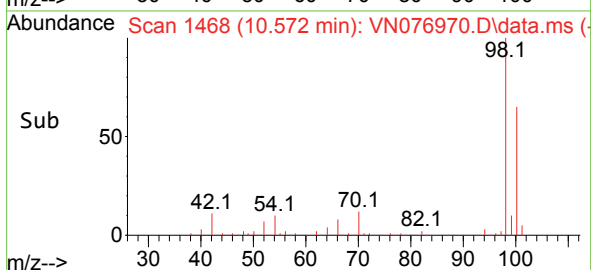
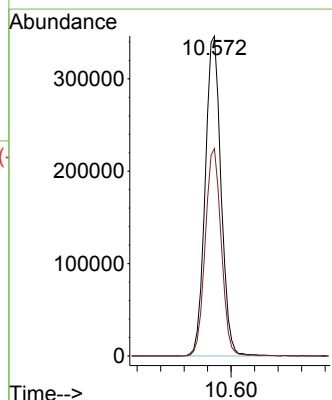
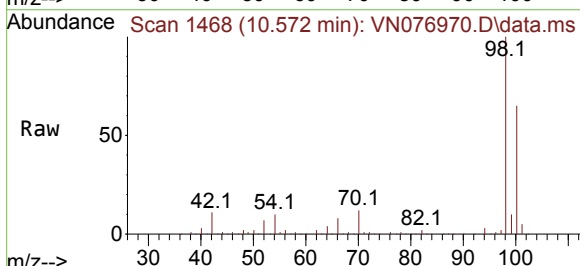
Acq: 13 Mar 2023 18:33

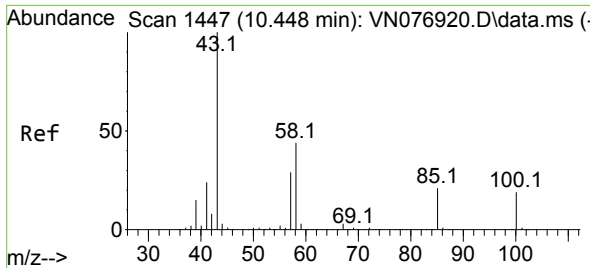
Tgt Ion: 98 Resp: 647069

Ion Ratio Lower Upper

98 100

100 65.4 52.8 79.2

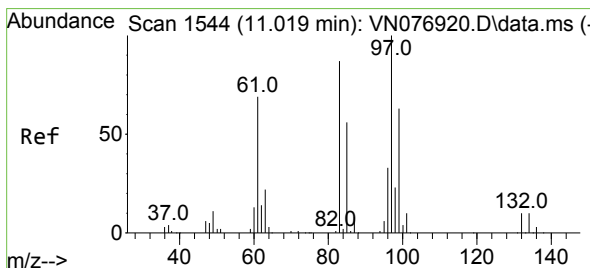
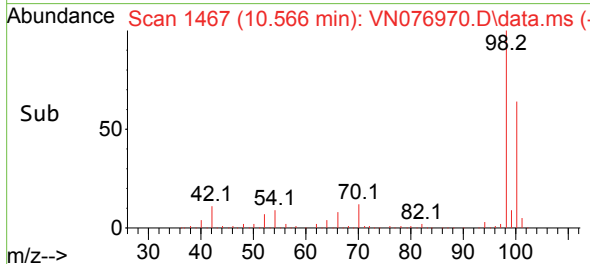
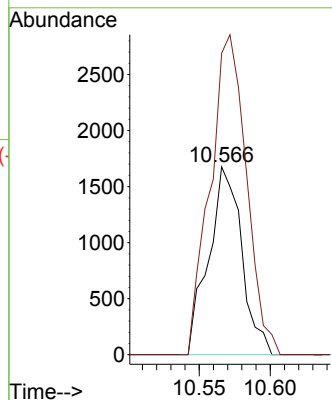
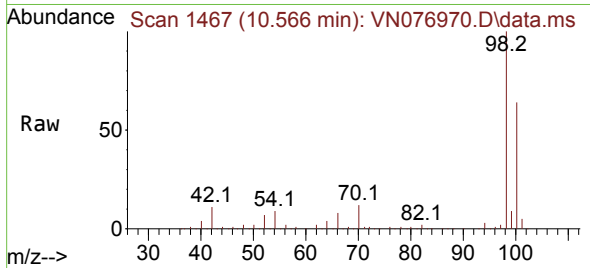




#51
4-Methyl-2-Pentanone
Concen: 0.558 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. 0.118 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

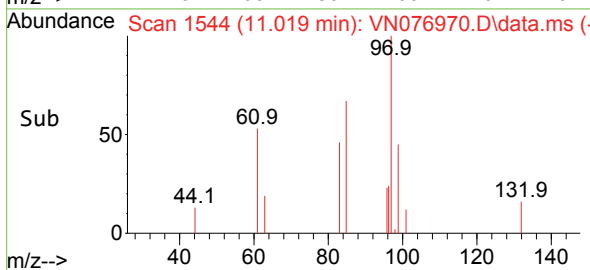
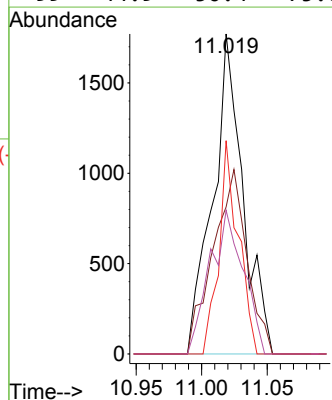
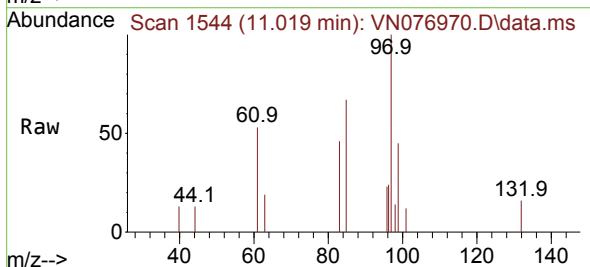
Instrument :
MSVOA_N
ClientSampleId :
RE120D1-20230310

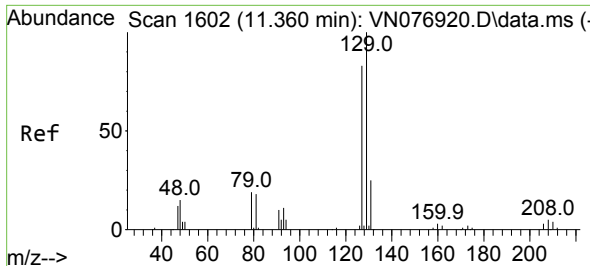
Tgt Ion: 43 Resp: 2713
Ion Ratio Lower Upper
43 100
58 186.8 37.4 56.0#



#55
1,1,2-Trichloroethane
Concen: 0.698 ug/l
RT: 11.019 min Scan# 1544
Delta R.T. -0.000 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion: 97 Resp: 2826
Ion Ratio Lower Upper
97 100
83 46.0 67.1 100.7#
85 66.6 41.8 62.8#
99 44.9 50.4 75.6#

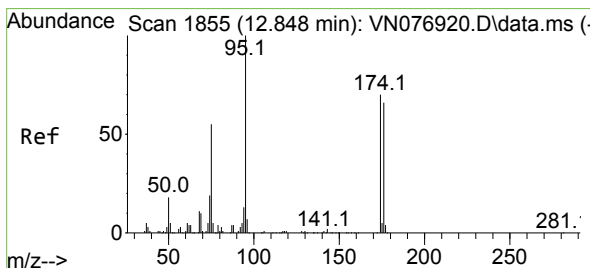
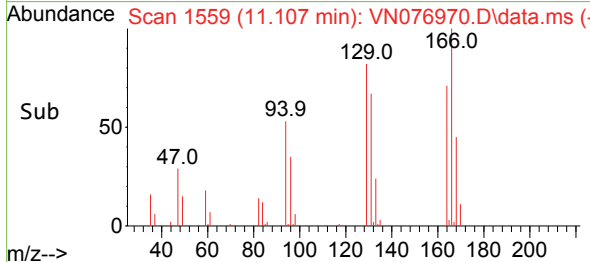
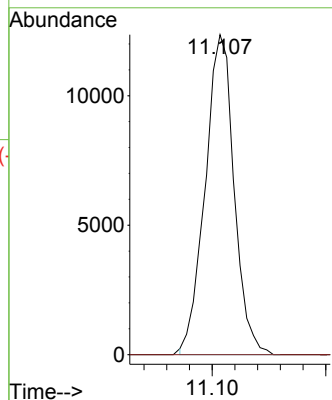
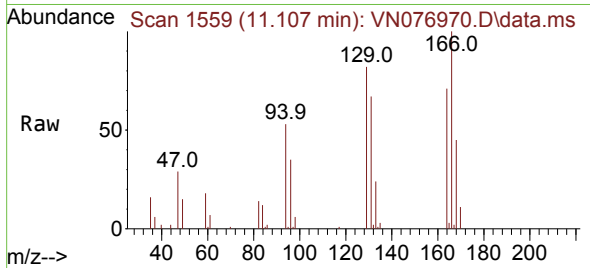




#60
Dibromochloromethane
Concen: 4.901 ug/l
RT: 11.107 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

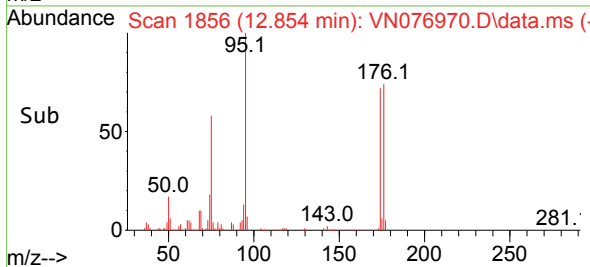
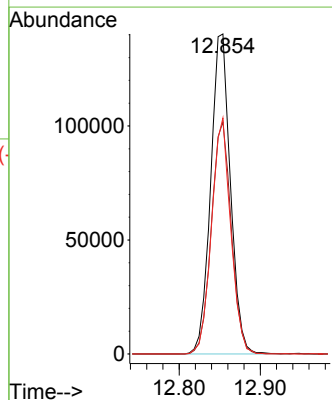
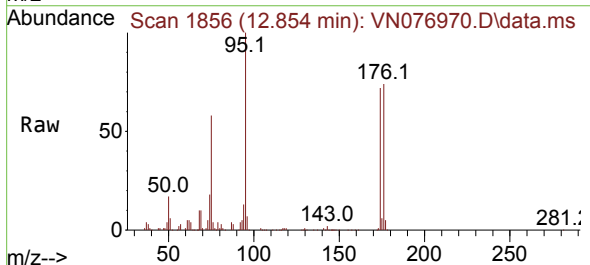
Instrument :
MSVOA_N
ClientSampleId :
RE120D1-20230310

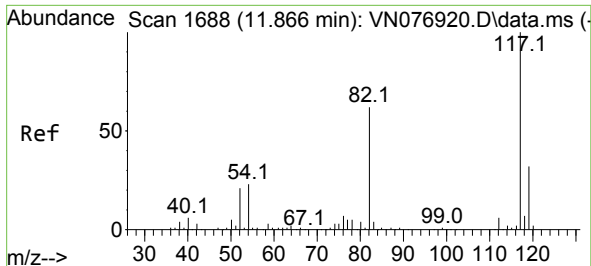
Tgt Ion:129 Resp: 21854
Ion Ratio Lower Upper
129 100
127 0.0 39.6 118.8#



#62
4-Bromofluorobenzene
Concen: 47.356 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion: 95 Resp: 236661
Ion Ratio Lower Upper
95 100
174 73.2 0.0 162.4
176 71.6 0.0 157.4

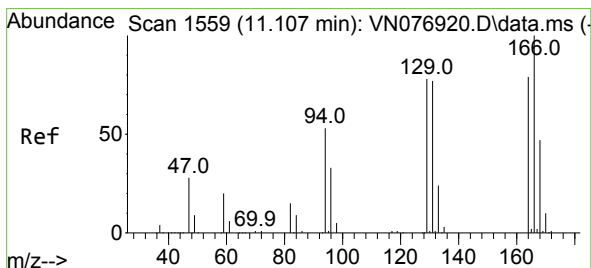
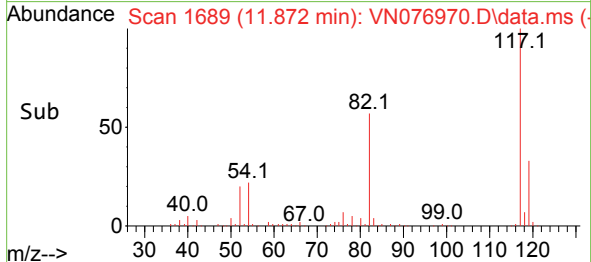
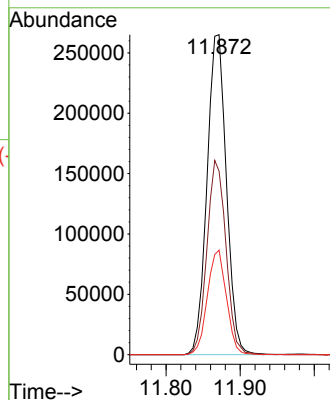
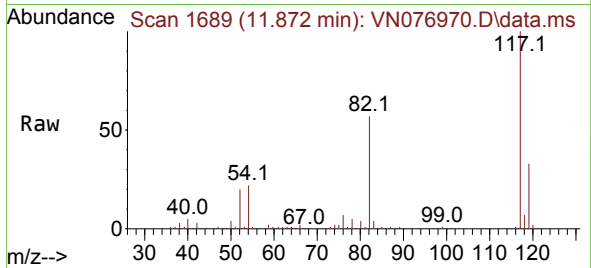




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

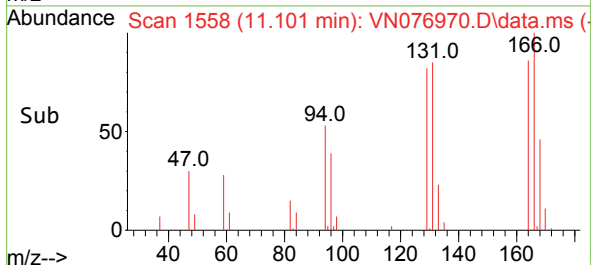
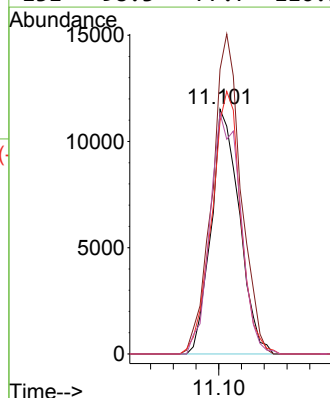
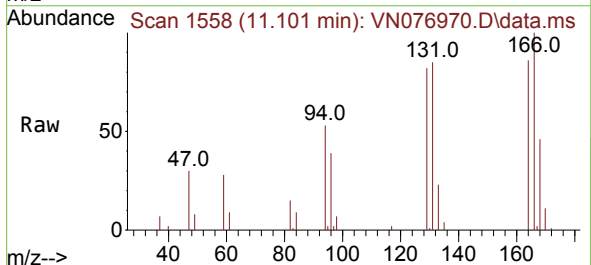
Instrument :
MSVOA_N
ClientSampleId :
RE120D1-20230310

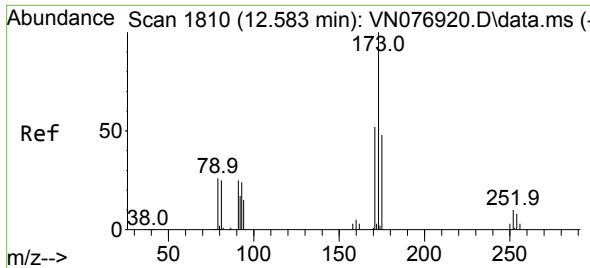
Tgt Ion:117 Resp: 482330
Ion Ratio Lower Upper
117 100
82 57.4 43.5 65.3
119 32.6 25.5 38.3



#64
Tetrachloroethene
Concen: 5.105 ug/l
RT: 11.101 min Scan# 1558
Delta R.T. -0.006 min
Lab File: VN076970.D
Acq: 13 Mar 2023 18:33

Tgt Ion:164 Resp: 19930
Ion Ratio Lower Upper
164 100
166 116.3 102.7 154.1
129 95.2 81.5 122.3
131 98.3 77.7 116.5





#71

Bromoform

Concen: 0.208 ug/l

RT: 12.854 min Scan# 1810

Delta R.T. 0.271 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Instrument :

MSVOA_N

ClientSampleId :

RE120D1-20230310

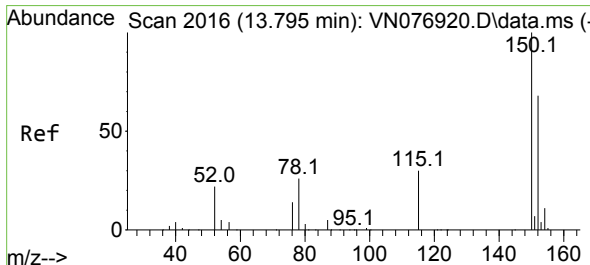
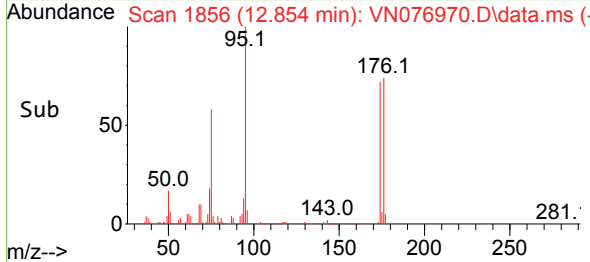
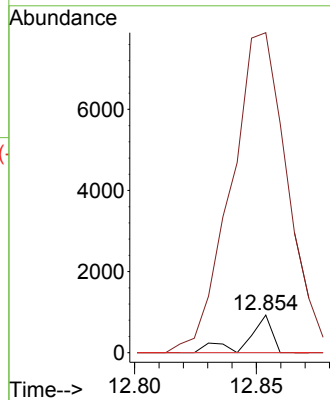
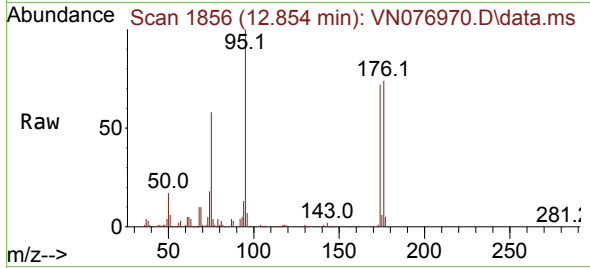
Tgt Ion:173 Resp: 635

Ion Ratio Lower Upper

173 100

175 1739.7 24.9 74.6#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

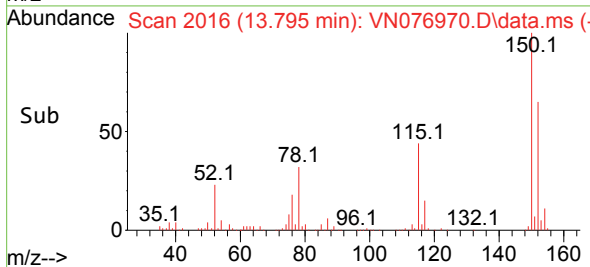
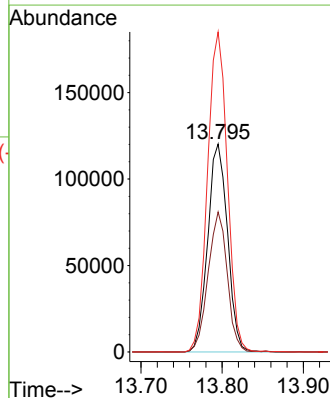
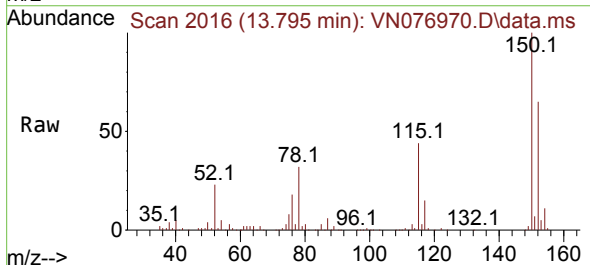
Tgt Ion:152 Resp: 203671

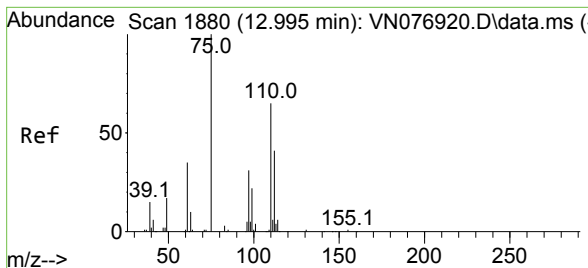
Ion Ratio Lower Upper

152 100

115 65.3 30.3 90.9

150 153.5 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 27.087 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Instrument :

MSVOA_N

ClientSampleId :

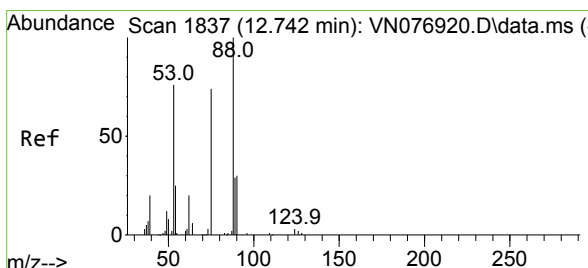
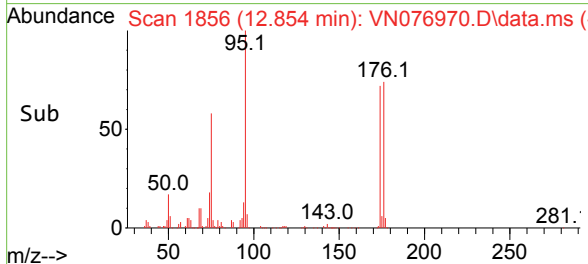
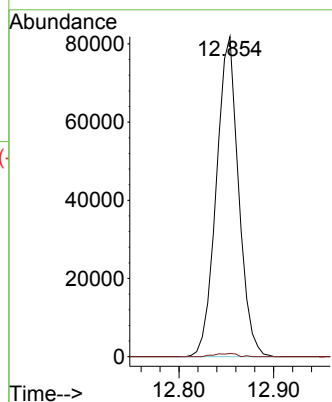
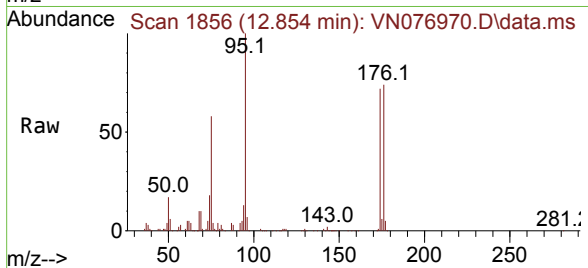
RE120D1-20230310

Tgt Ion: 75 Resp: 133753

Ion Ratio Lower Upper

75 100

77 1.0 93.8 281.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 88.480 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN076970.D

Acq: 13 Mar 2023 18:33

Tgt Ion: 75 Resp: 133753

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.0 39.5 59.3#

