

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051923\
 Data File : VN077775.D
 Acq On : 19 May 2023 19:33
 Operator : JC\MD
 Sample : 02834-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP02-20230517

Quant Time: May 29 09:53:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

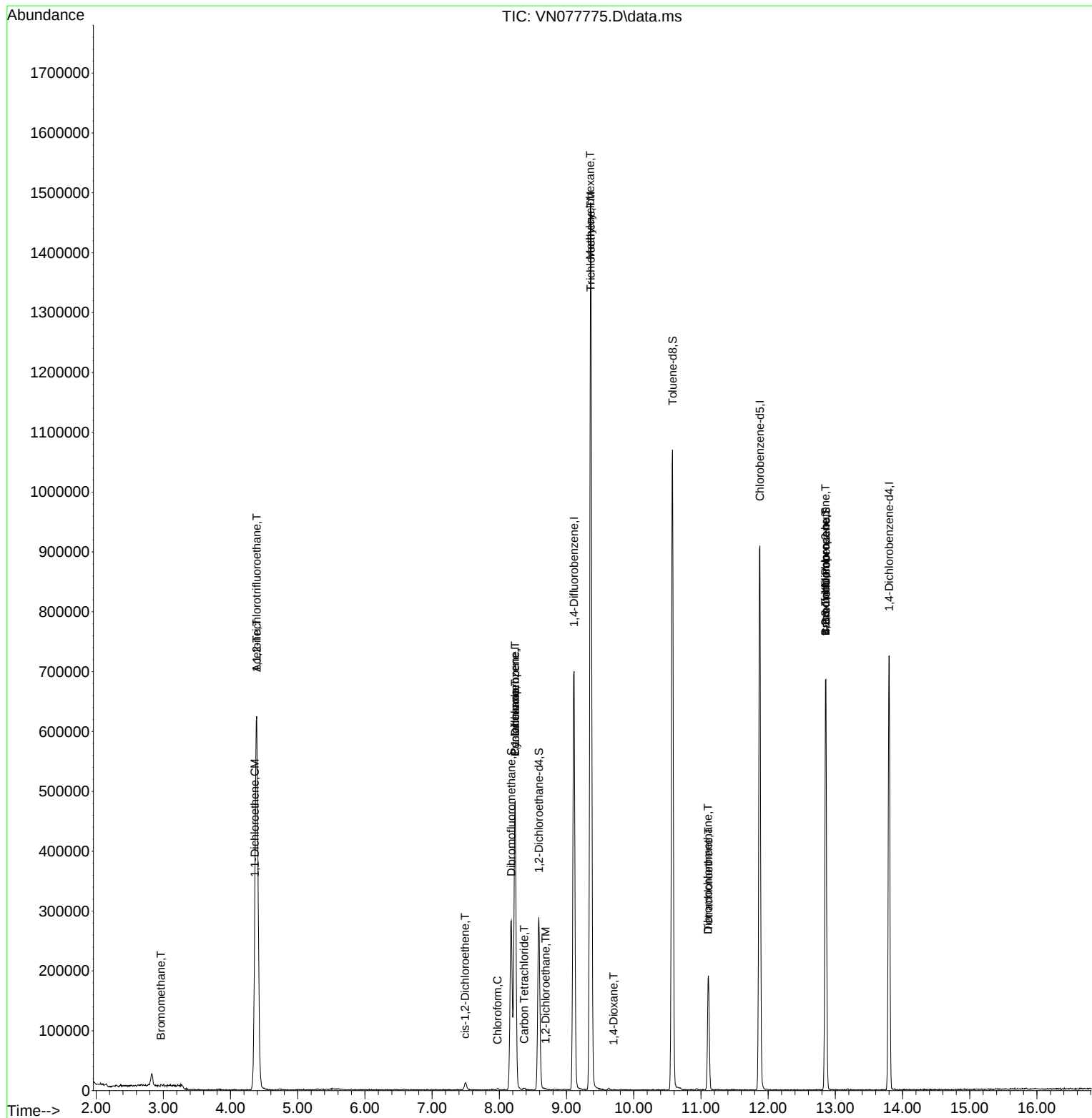
Internal Standards						
1) Pentafluorobenzene	8.236	168	351937	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	633942	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.877	117	556184	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	193853	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	242448	46.041	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.080%		
35) Dibromofluoromethane	8.177	113	202931	49.090	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.180%		
50) Toluene-d8	10.577	98	778533	48.929	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.860%		
62) 4-Bromofluorobenzene	12.859	95	252442	44.921	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.840%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1369	Below Cal	#	68
5) Bromomethane	2.965	94	936	0.251	ug/l #	39
9) 1,1,2-Trichlorotrifluo...	4.389	101	435993	111.948	ug/l	98
12) 1,1-Dichloroethene	4.359	96	4513	1.219	ug/l #	73
13) Acrolein	4.189	56	132	Below Cal	#	1
16) Acetone	4.389	43	2002	1.208	ug/l #	78
20) Methylene Chloride	5.277	84	406	Below Cal	#	46
27) cis-1,2-Dichloroethene	7.489	96	8234	1.652	ug/l	83
30) Chloroform	7.971	83	1897	0.221	ug/l #	80
31) Cyclohexane	8.236	56	7861	1.098	ug/l #	24
36) 1,1-Dichloropropene	8.236	75	29537	4.885	ug/l #	48
38) Carbon Tetrachloride	8.371	117	2002	0.328	ug/l #	72
39) Methylcyclohexane	9.353	83	6800	0.919	ug/l #	1
42) 1,2-Dichloroethane	8.688	62	1424	0.220	ug/l #	73
44) Trichloroethene	9.359	130	525561	116.327	ug/l	99
49) 1,4-Dioxane	9.700	88	520	6.597	ug/l #	88
60) Dibromochloromethane	11.106	129	43248	9.498	ug/l #	11
64) Tetrachloroethene	11.112	164	42234	10.858	ug/l	96
71) Bromoform	12.853	173	664	0.239	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	130990	26.982	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	130990	86.247	ug/l #	15

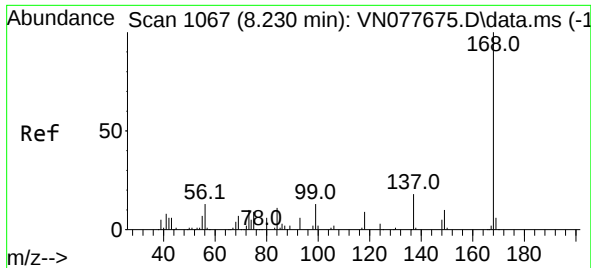
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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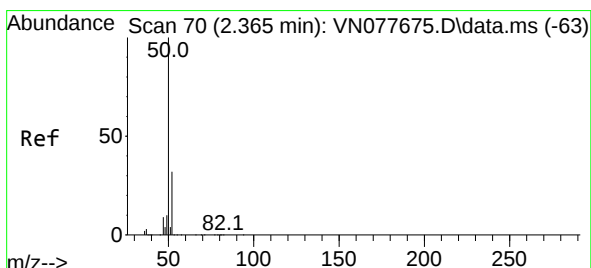
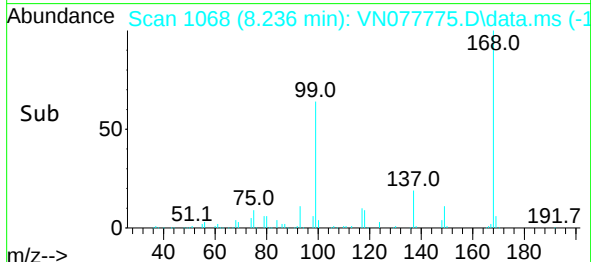
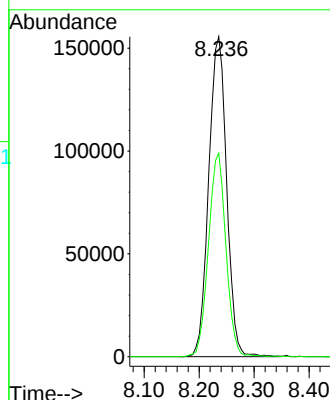
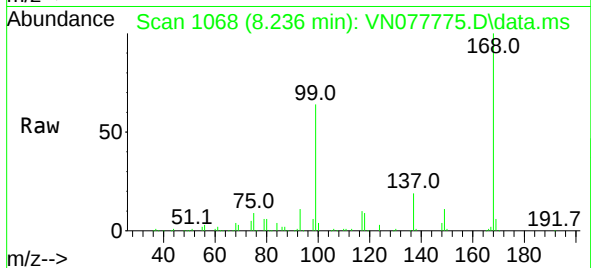




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. 0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

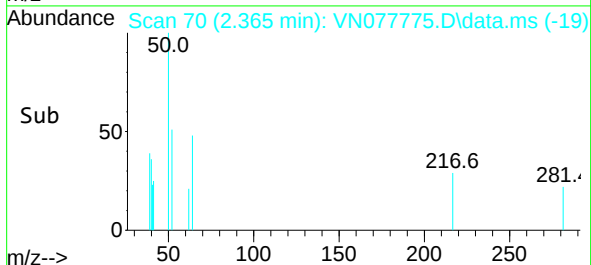
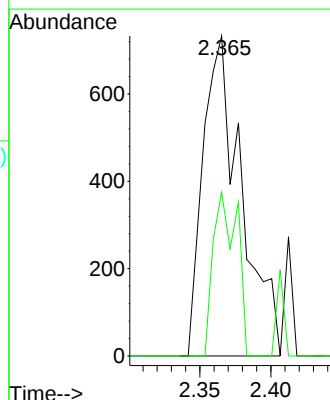
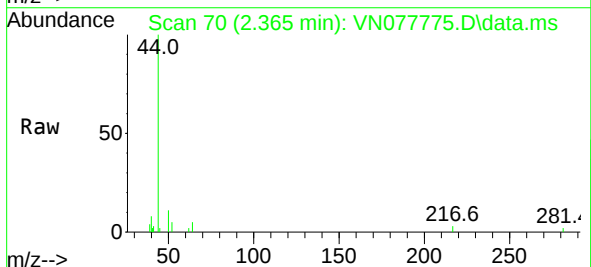
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20230517

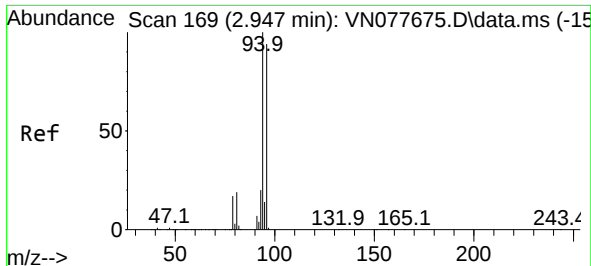
Tgt Ion:168 Resp: 351937
Ion Ratio Lower Upper
168 100
99 63.6 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt Ion: 50 Resp: 1369
Ion Ratio Lower Upper
50 100
52 51.2 26.5 39.7#

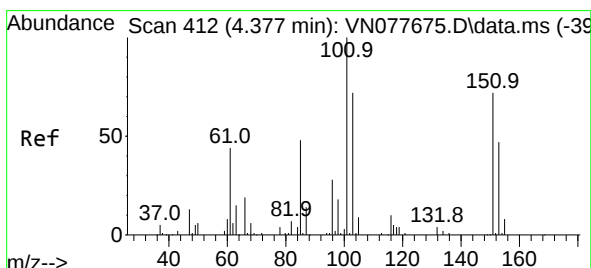
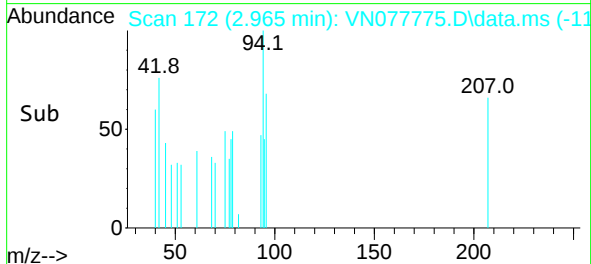
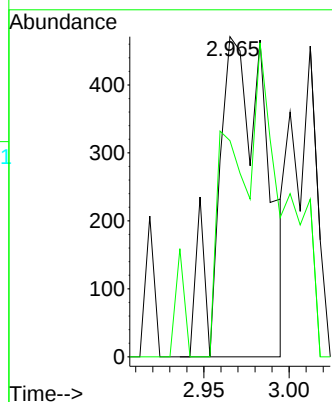
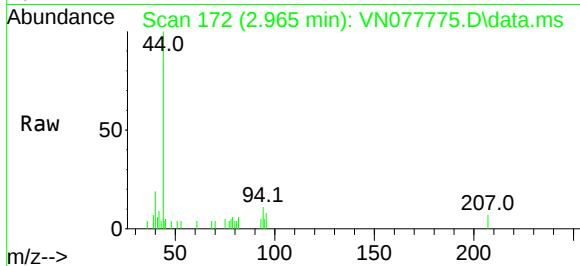




#5
Bromomethane
Concen: 0.251 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

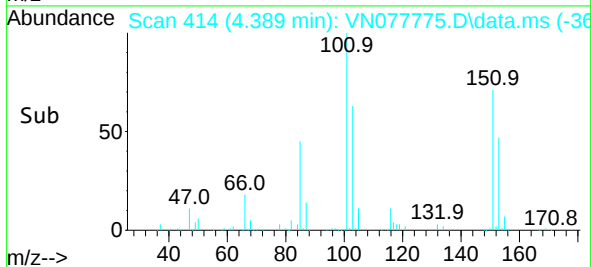
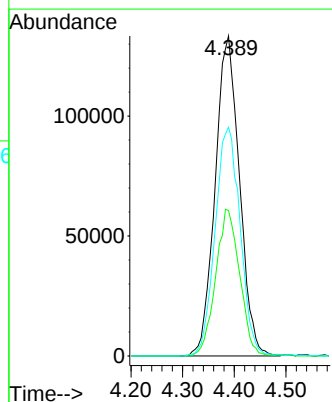
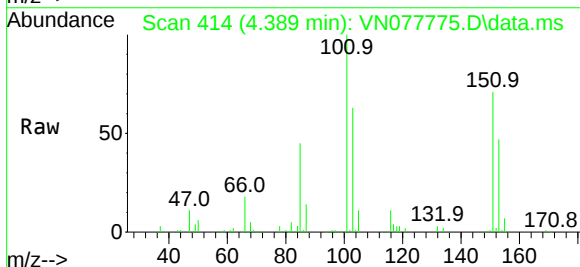
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20230517

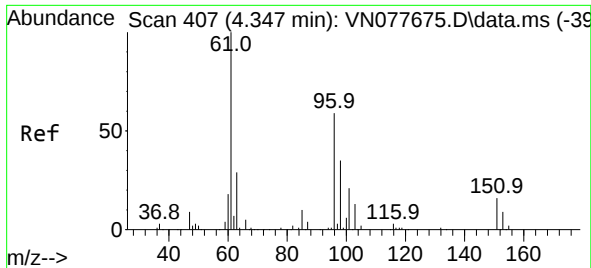
Tgt Ion: 94 Resp: 936
Ion Ratio Lower Upper
94 100
96 33.8 73.1 109.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 111.948 ug/l
RT: 4.389 min Scan# 414
Delta R.T. 0.012 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt Ion: 101 Resp: 435993
Ion Ratio Lower Upper
101 100
85 45.2 36.6 55.0
151 73.7 57.6 86.4





#12

1,1-Dichloroethene

Concen: 1.219 ug/l

RT: 4.359 min Scan# 407

Delta R.T. 0.012 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20230517

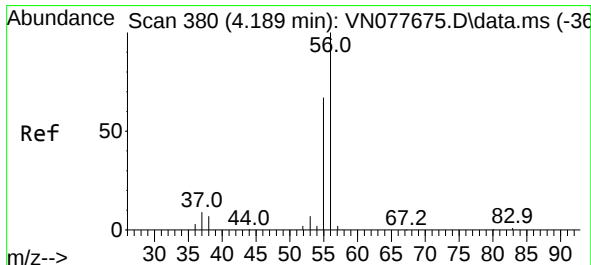
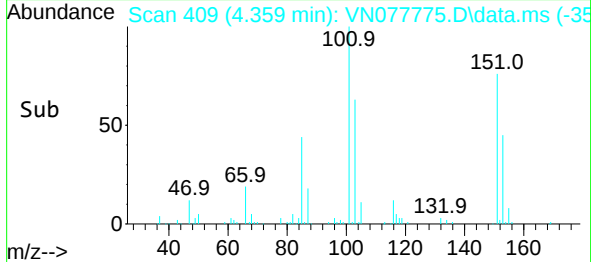
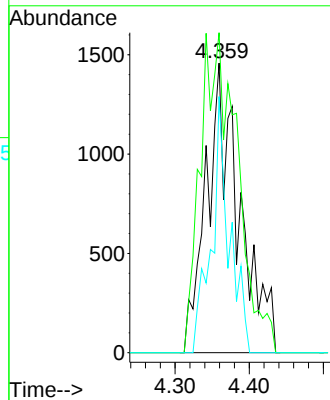
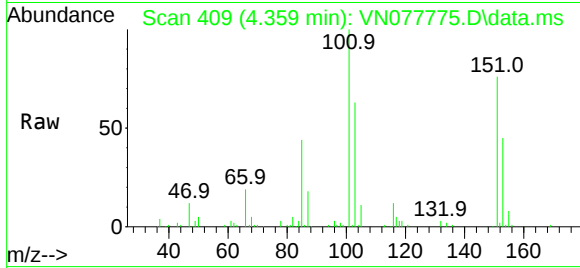
Tgt Ion: 96 Resp: 4513

Ion Ratio Lower Upper

96 100

61 110.5 112.7 169.1#

98 88.5 51.2 76.8#



#13

Acrolein

Concen: Below Cal

RT: 4.189 min Scan# 380

Delta R.T. -0.000 min

Lab File: VN077775.D

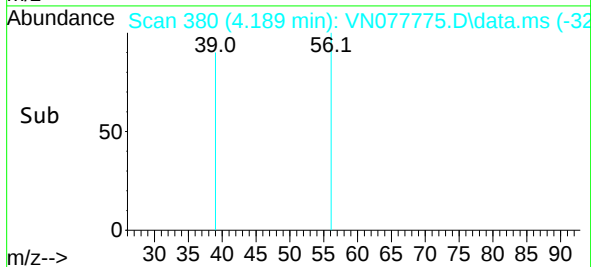
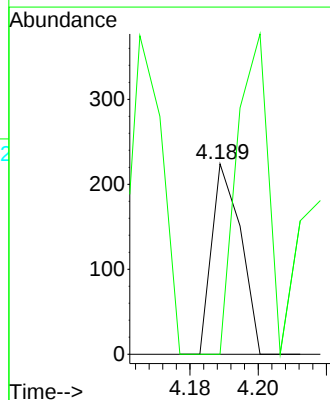
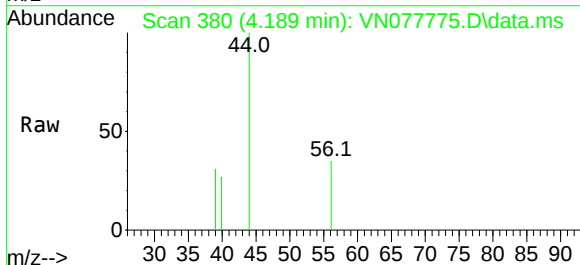
Acq: 19 May 2023 19:33

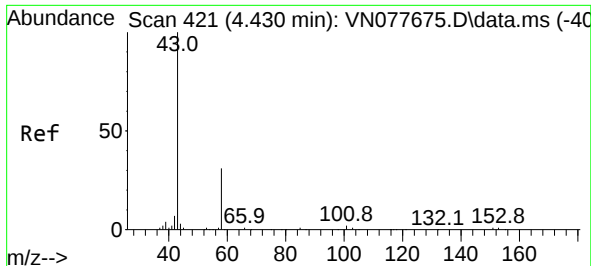
Tgt Ion: 56 Resp: 132

Ion Ratio Lower Upper

56 100

55 178.0 54.5 81.7#

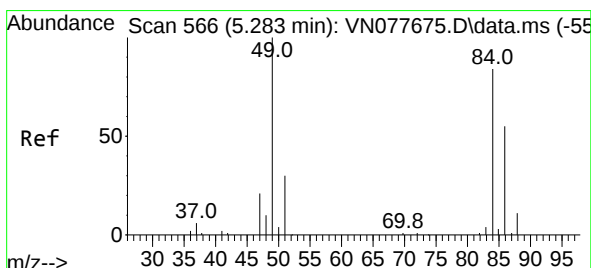
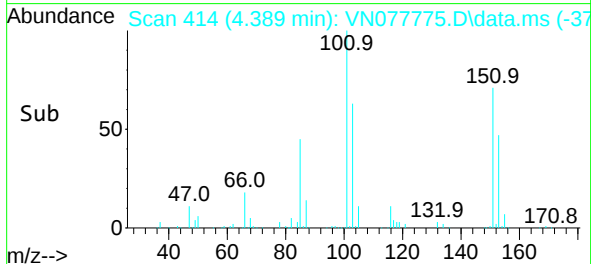
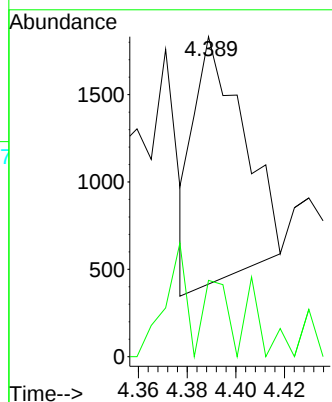
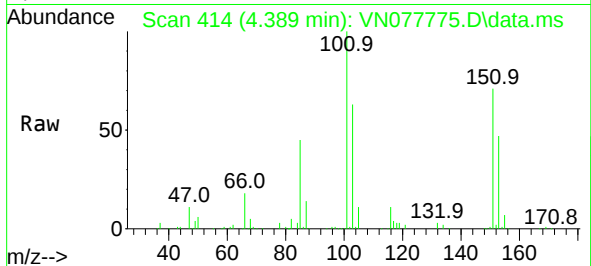




#16
Acetone
Concen: 1.208 ug/l
RT: 4.389 min Scan# 41
Delta R.T. -0.041 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

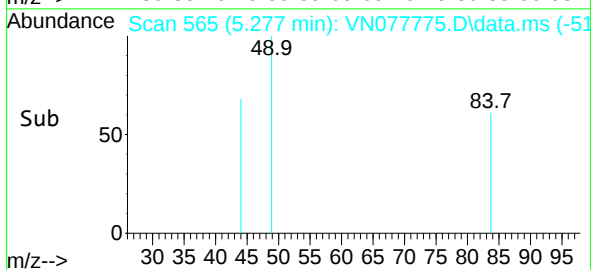
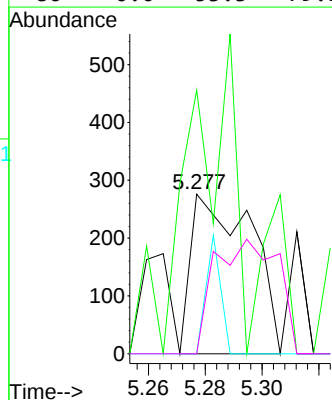
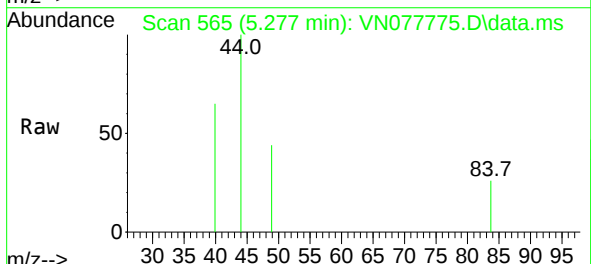
Instrument :
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ClientSampleId :
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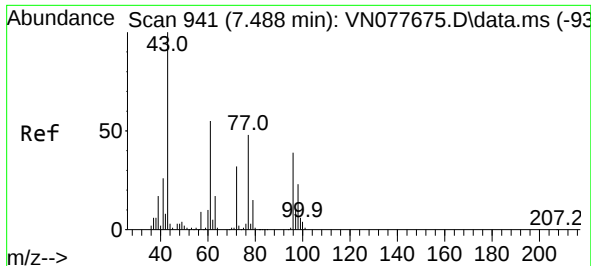
Tgt Ion: 43 Resp: 2002
Ion Ratio Lower Upper
43 100
58 22.2 28.0 42.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt Ion: 84 Resp: 406
Ion Ratio Lower Upper
84 100
49 65.6 79.7 119.5#
51 0.0 25.2 37.8#
86 0.0 53.3 79.9#

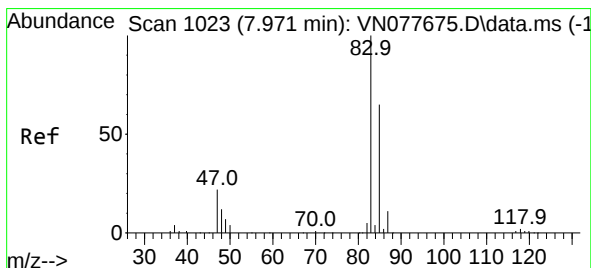
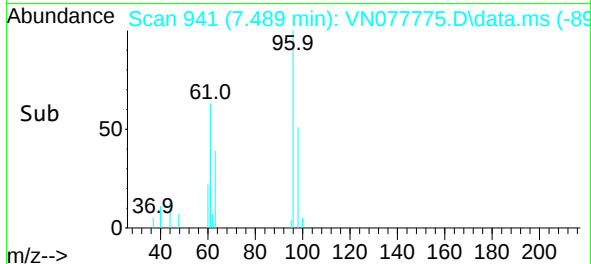
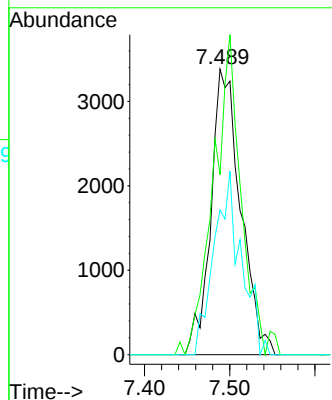
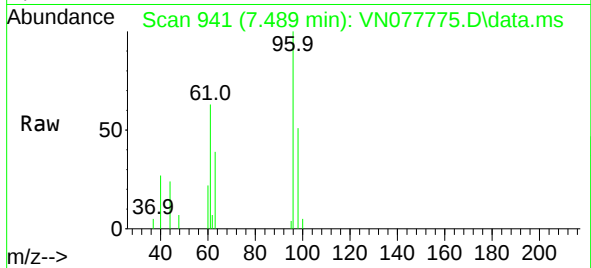




#27
 cis-1,2-Dichloroethene
 Concen: 1.652 ug/l
 RT: 7.489 min Scan# 941
 Delta R.T. 0.001 min
 Lab File: VN077775.D
 Acq: 19 May 2023 19:33

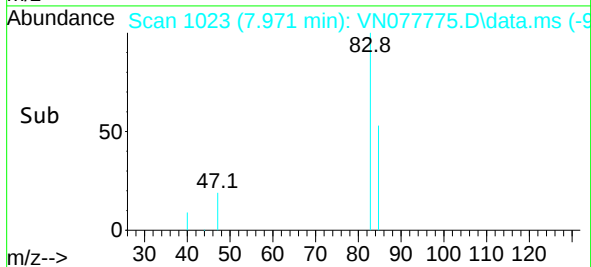
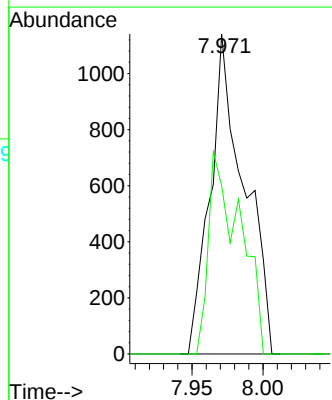
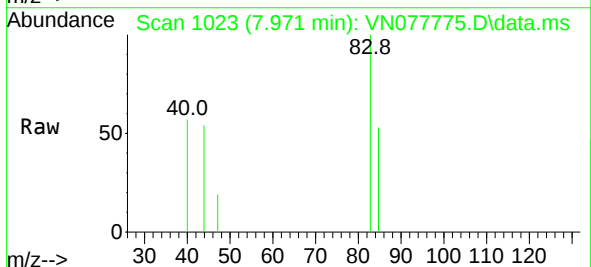
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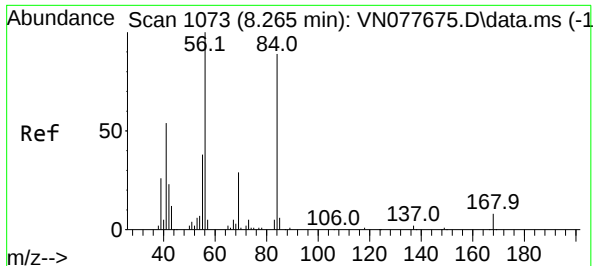
Tgt Ion: 96 Resp: 8234
 Ion Ratio Lower Upper
 96 100
 61 102.9 0.0 255.2
 98 58.5 0.0 128.8



#30
 Chloroform
 Concen: 0.221 ug/l
 RT: 7.971 min Scan# 1023
 Delta R.T. -0.000 min
 Lab File: VN077775.D
 Acq: 19 May 2023 19:33

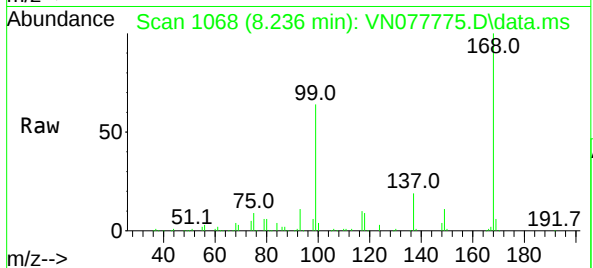
Tgt Ion: 83 Resp: 1897
 Ion Ratio Lower Upper
 83 100
 85 52.6 55.4 83.0#



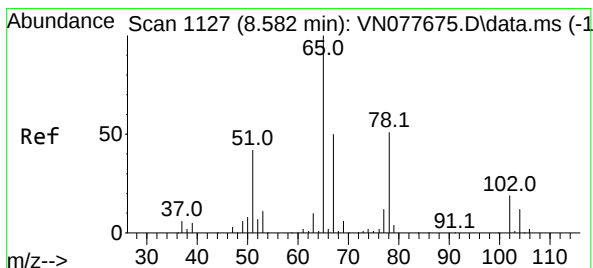
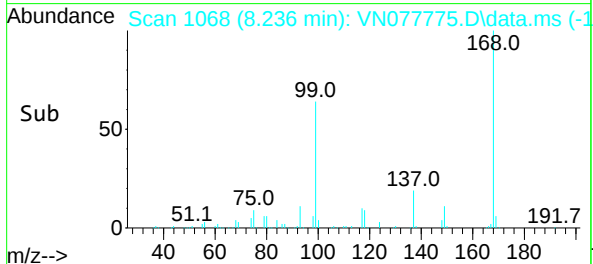
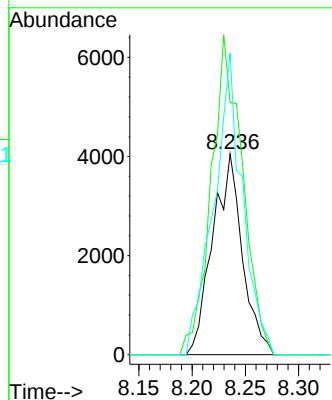


#31
Cyclohexane
Concen: 1.098 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Instrument :
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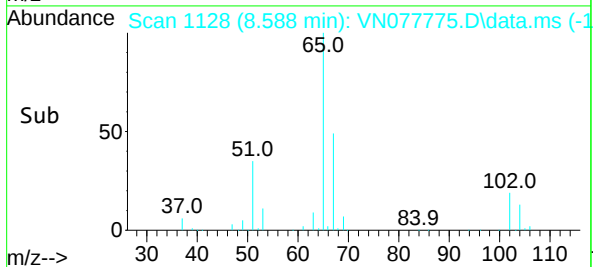
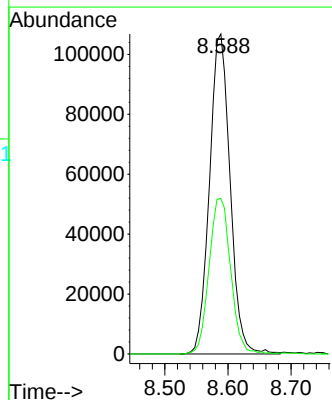
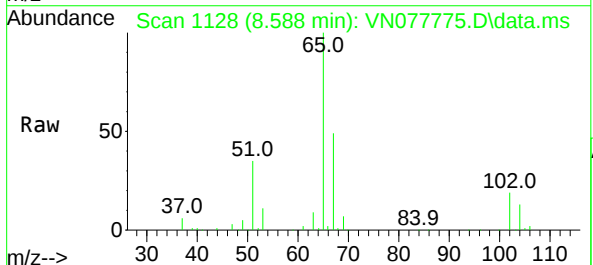


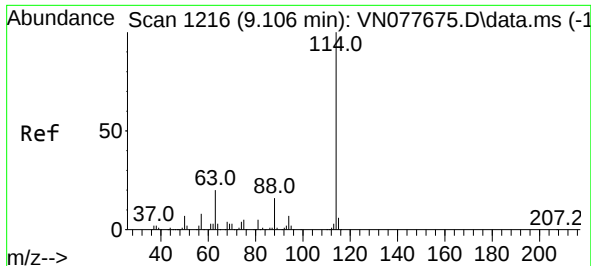
Tgt Ion: 56 Resp: 7861
Ion Ratio Lower Upper
56 100
69 125.6 26.8 40.2#
84 150.3 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 46.041 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt Ion: 65 Resp: 242448
Ion Ratio Lower Upper
65 100
67 50.9 0.0 106.6

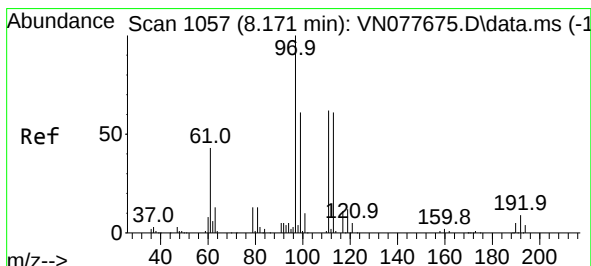
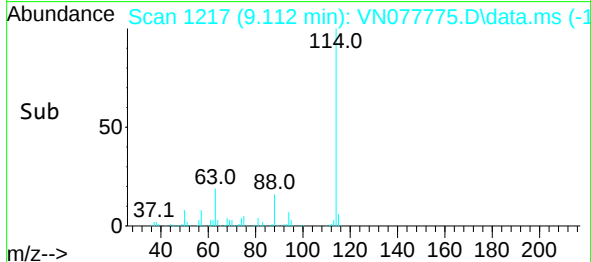
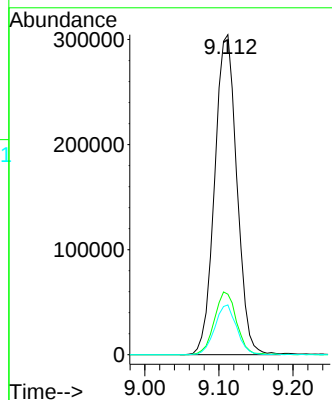
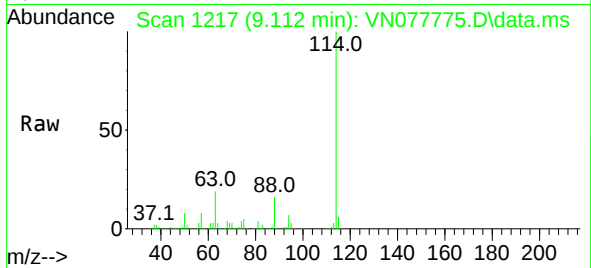




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

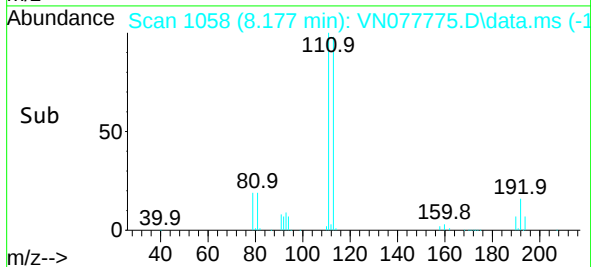
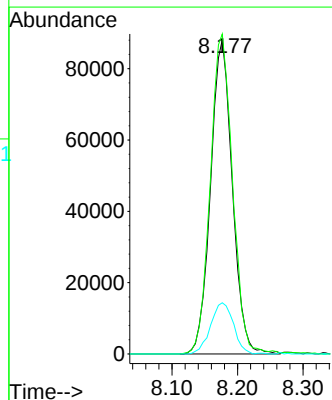
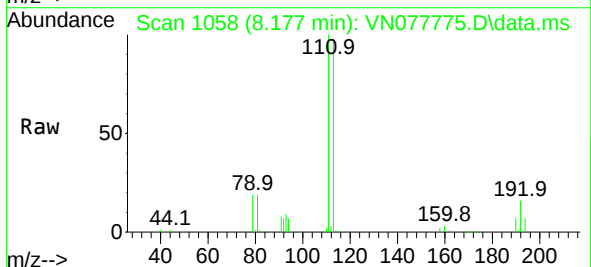
Instrument :
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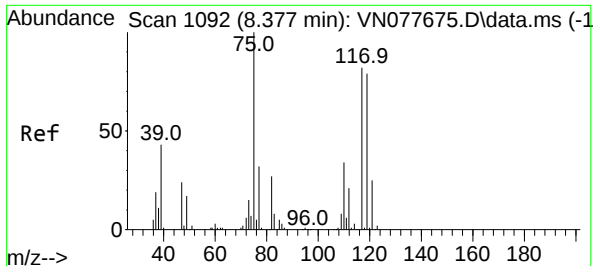
Tgt Ion:114 Resp: 633942
Ion Ratio Lower Upper
114 100
63 18.9 0.0 36.4
88 15.5 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.090 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt Ion:113 Resp: 202931
Ion Ratio Lower Upper
113 100
111 104.4 82.6 123.8
192 17.2 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.885 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN077775.D

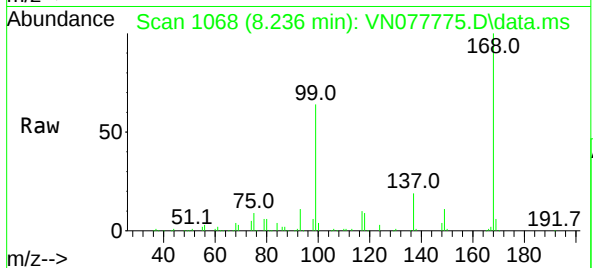
Acq: 19 May 2023 19:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20230517



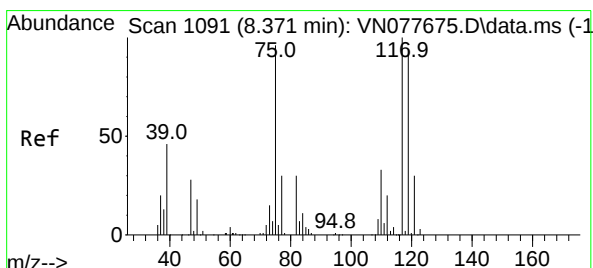
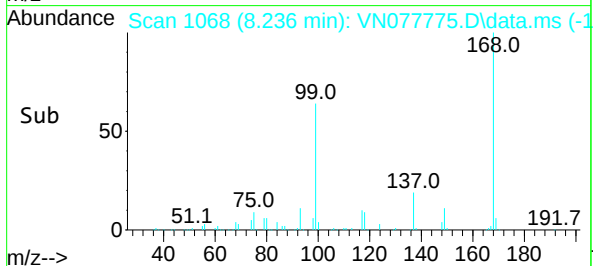
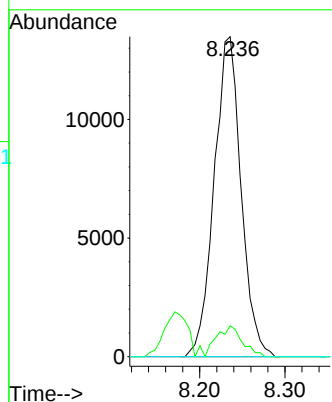
Tgt Ion: 75 Resp: 29537

Ion Ratio Lower Upper

75 100

110 9.2 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 0.328 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

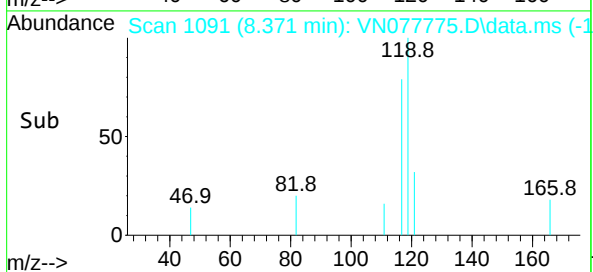
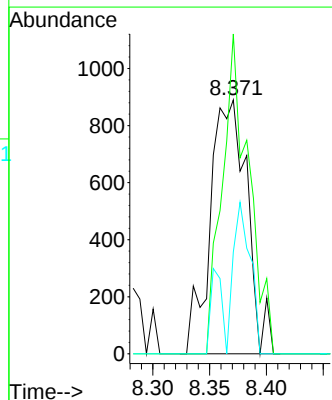
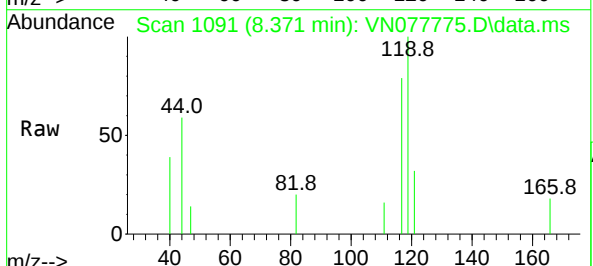
Tgt Ion: 117 Resp: 2002

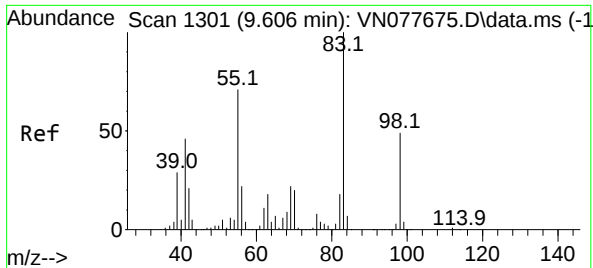
Ion Ratio Lower Upper

117 100

119 126.0 77.3 115.9#

121 40.1 23.3 34.9#





#39

Methylcyclohexane

Concen: 0.919 ug/l

RT: 9.353 min Scan# 1125

Delta R.T. -0.253 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20230517

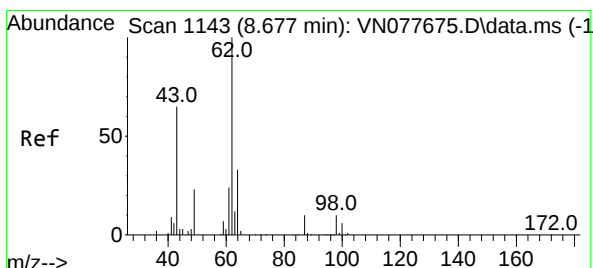
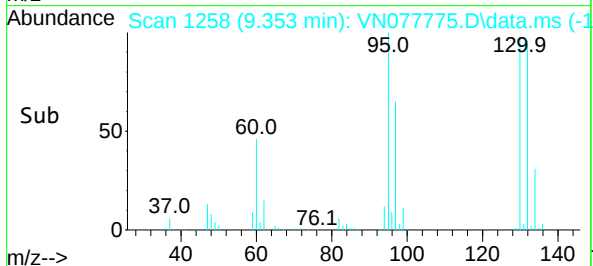
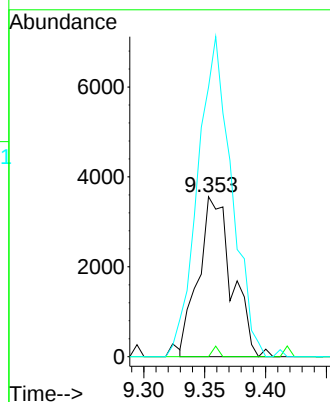
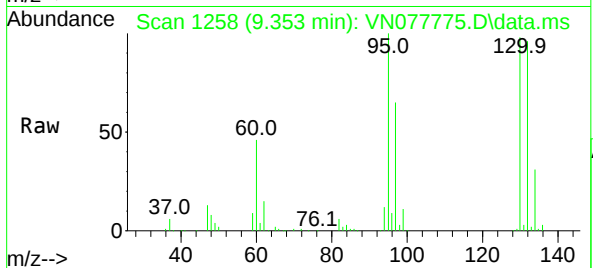
Tgt Ion: 83 Resp: 6800

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 164.1 40.6 61.0#



#42

1,2-Dichloroethane

Concen: 0.220 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.011 min

Lab File: VN077775.D

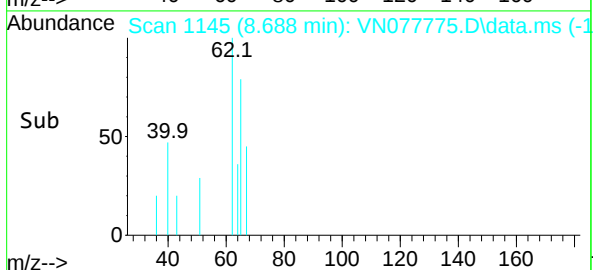
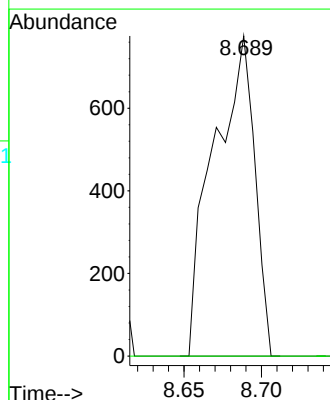
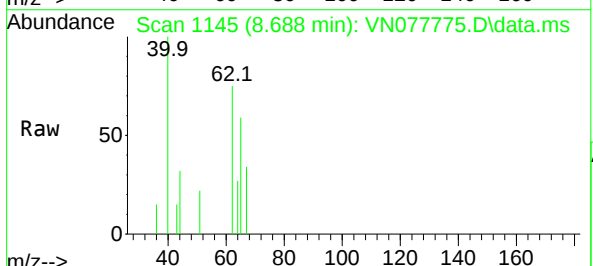
Acq: 19 May 2023 19:33

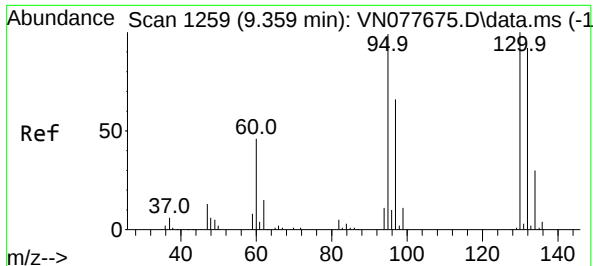
Tgt Ion: 62 Resp: 1424

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

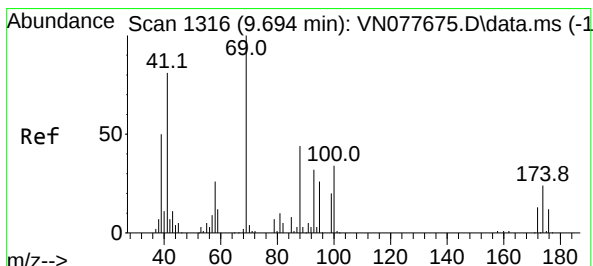
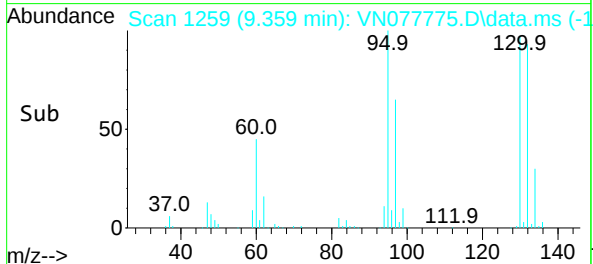
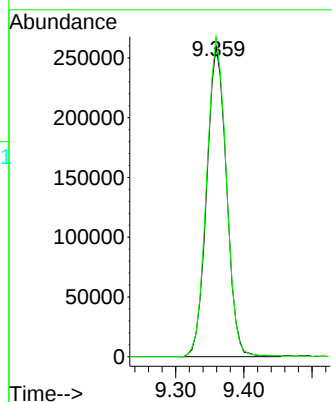
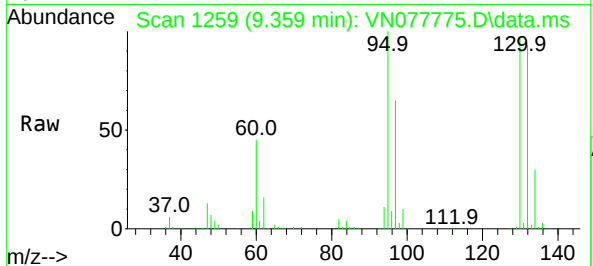




#44
Trichloroethene
Concen: 116.327 ug/l
RT: 9.359 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

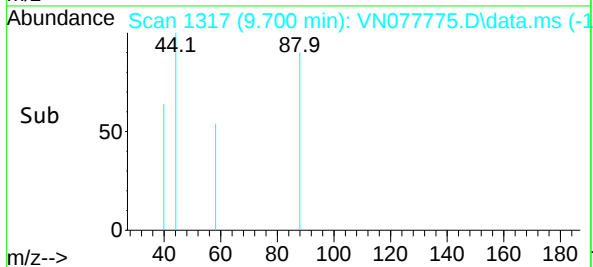
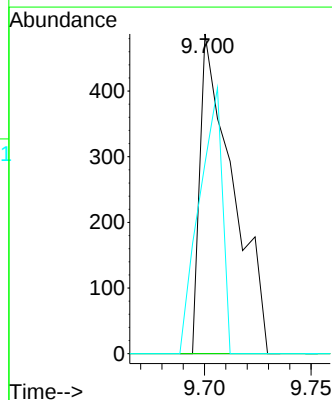
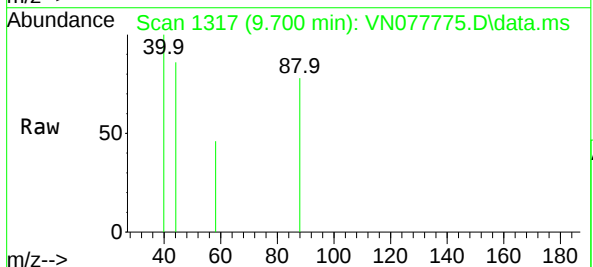
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20230517

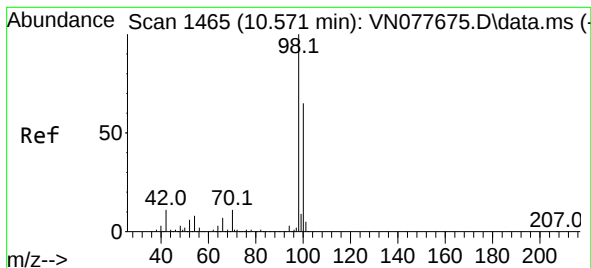
Tgt Ion:130 Resp: 525561
Ion Ratio Lower Upper
130 100
95 103.0 0.0 204.6



#49
1,4-Dioxane
Concen: 6.597 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt Ion: 88 Resp: 520
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 58.5 47.0 70.4

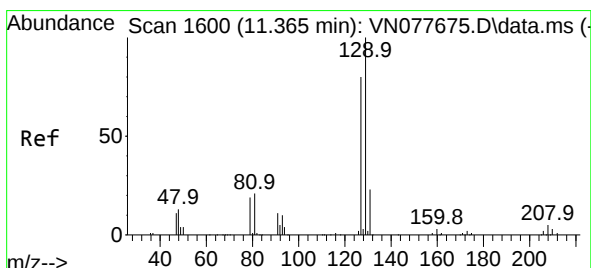
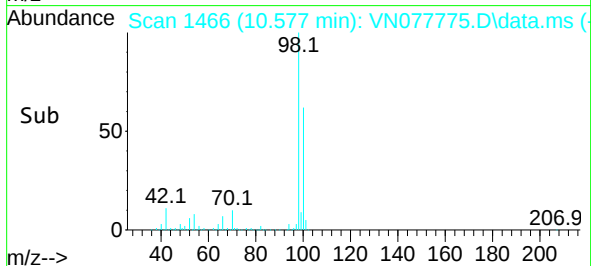
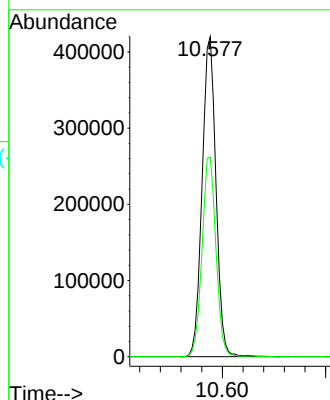
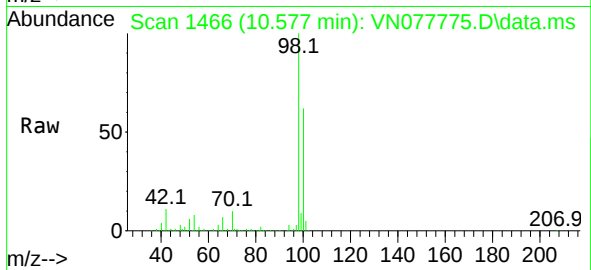




#50
Toluene-d8
Concen: 48.929 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

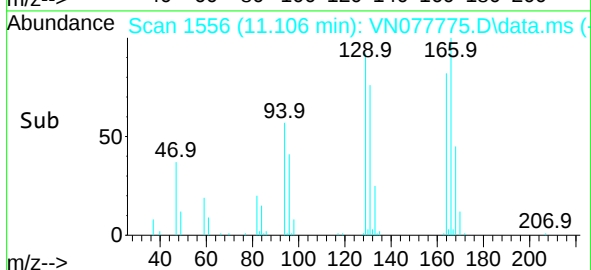
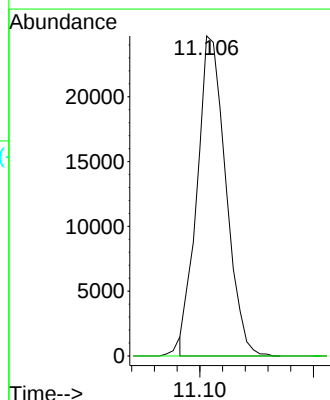
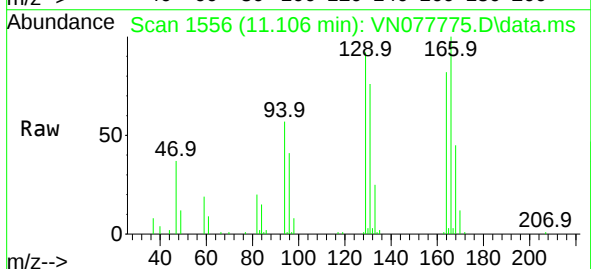
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20230517

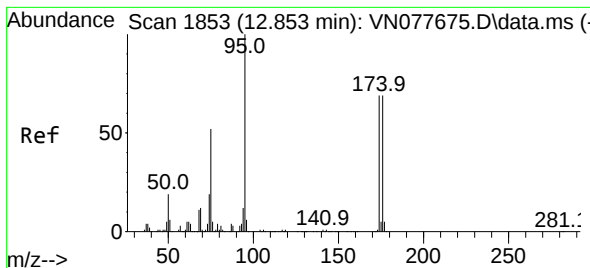
Tgt Ion: 98 Resp: 778533
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#60
Dibromochloromethane
Concen: 9.498 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.259 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt Ion:129 Resp: 43248
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

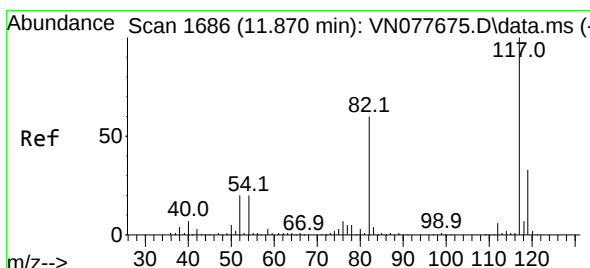
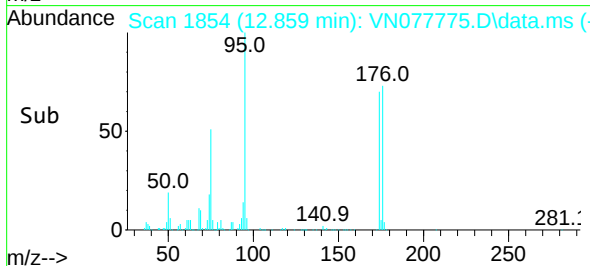
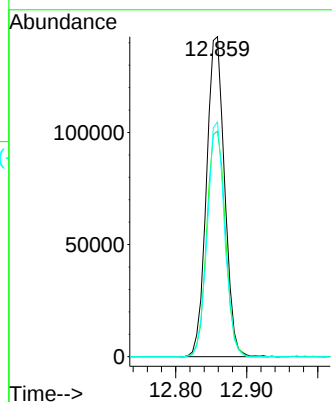
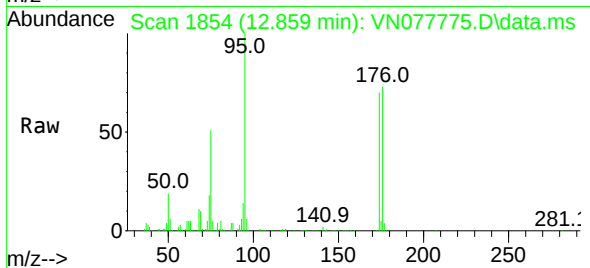




#62
4-Bromofluorobenzene
Concen: 44.921 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

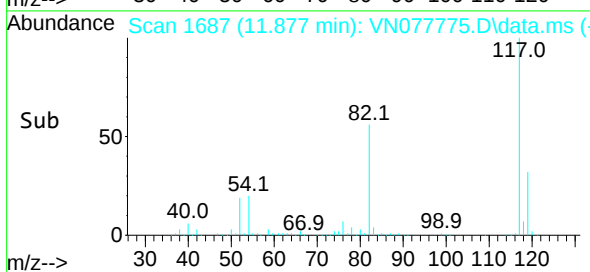
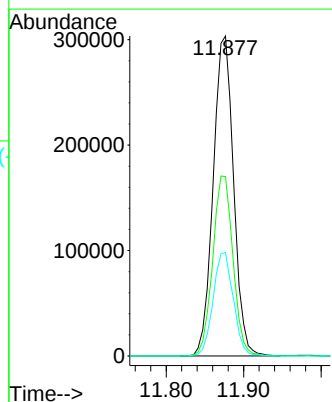
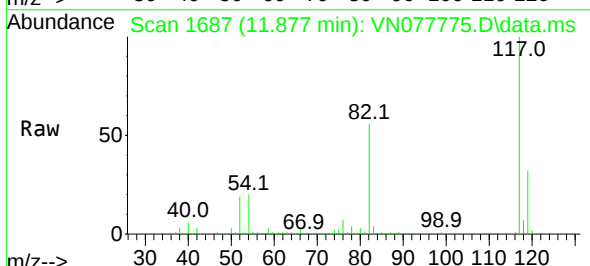
Instrument :
MSVOA_N
ClientSampleId :
DUP02-20230517

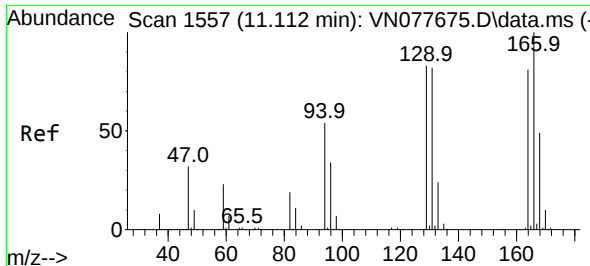
Tgt Ion: 95 Resp: 252442
Ion Ratio Lower Upper
95 100
174 72.2 0.0 143.8
176 70.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.877 min Scan# 1687
Delta R.T. 0.007 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

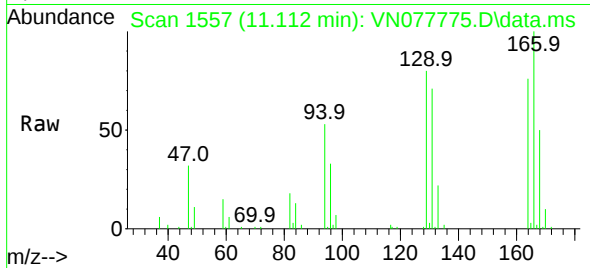
Tgt Ion: 117 Resp: 556184
Ion Ratio Lower Upper
117 100
82 56.0 44.0 66.0
119 32.3 25.6 38.4



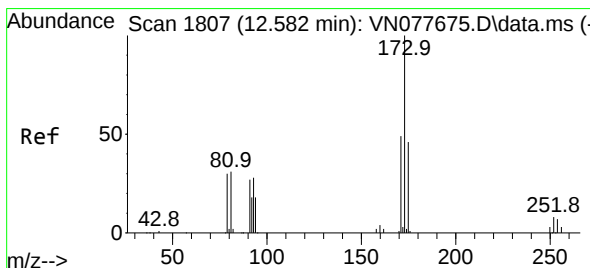
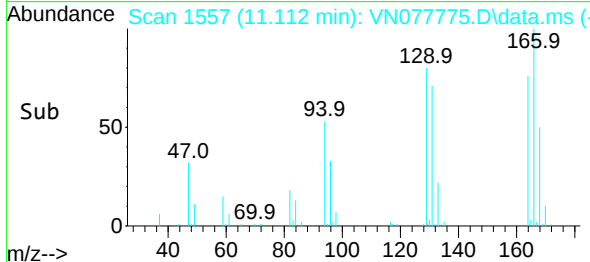
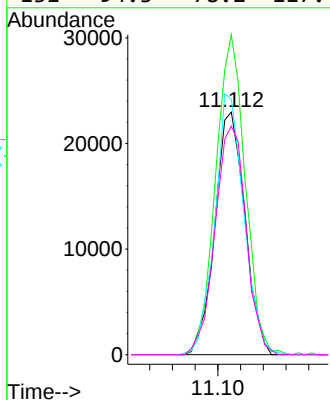


#64
Tetrachloroethene
Concen: 10.858 ug/l
RT: 11.112 min Scan# 1111
Delta R.T. -0.000 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Instrument :
MSVOA_N
ClientSampleId :
DUP02-20230517

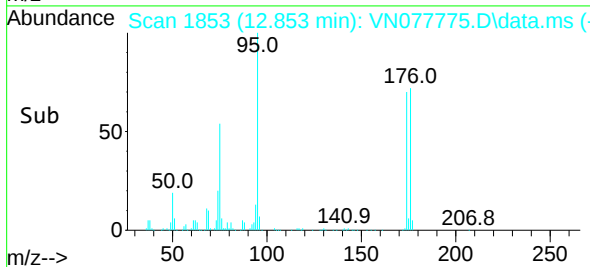
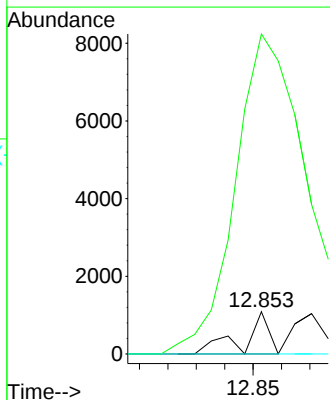
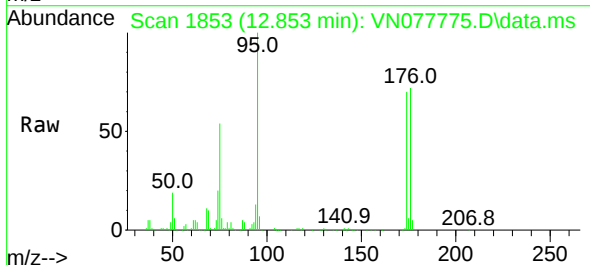


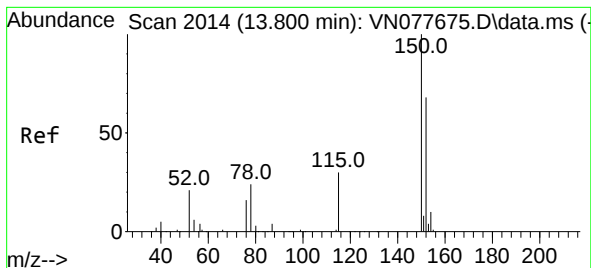
Tgt	Ion:164	Resp:	42234
Ion	Ratio	Lower	Upper
164	100		
166	131.9	101.4	152.0
129	105.4	82.4	123.6
131	94.3	78.2	117.4



#71
Bromoform
Concen: 0.239 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Tgt	Ion:173	Resp:	664
Ion	Ratio	Lower	Upper
173	100		
175	1431.3	24.3	73.0#
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

Instrument :

MSVOA_N

ClientSampleId :

DUP02-20230517

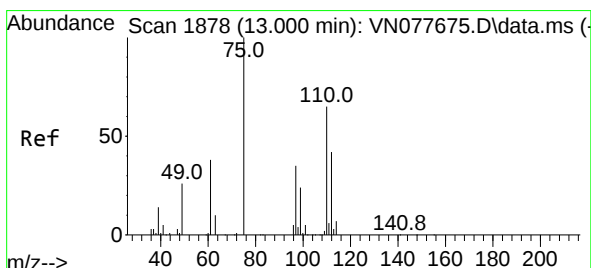
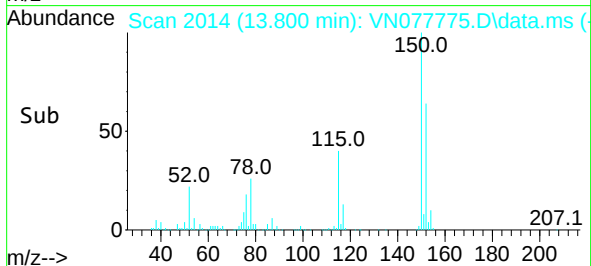
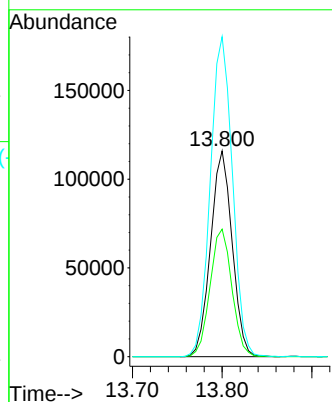
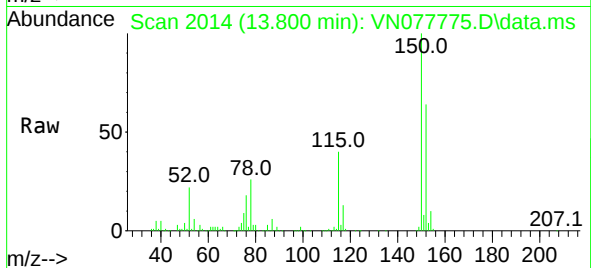
Tgt Ion:152 Resp: 193853

Ion Ratio Lower Upper

152 100

115 62.6 32.3 96.8

150 159.2 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 26.982 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN077775.D

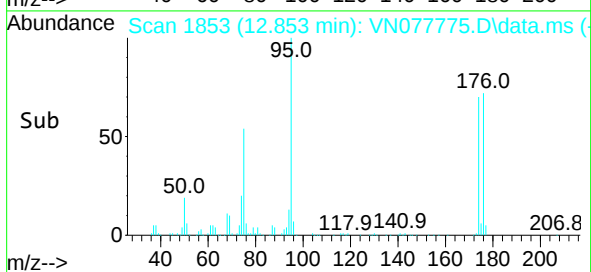
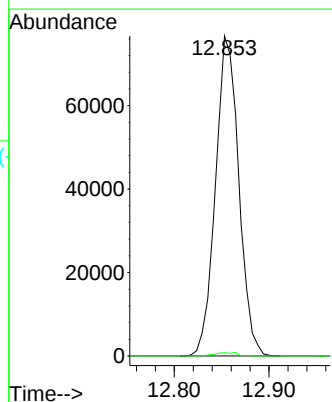
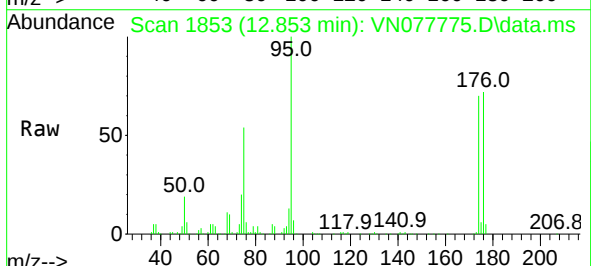
Acq: 19 May 2023 19:33

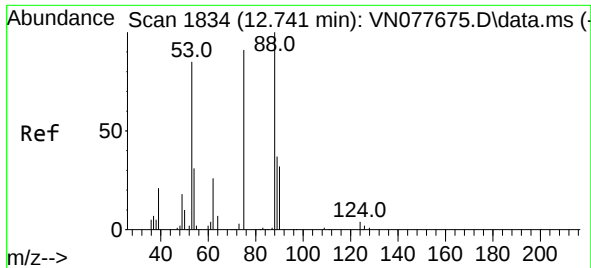
Tgt Ion: 75 Resp: 130990

Ion Ratio Lower Upper

75 100

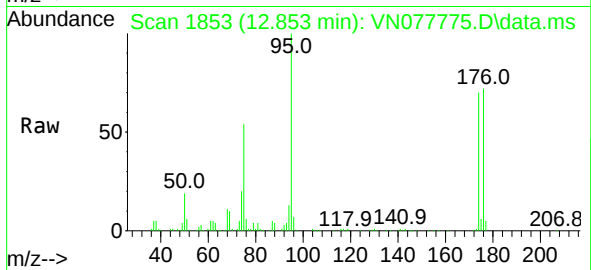
77 1.0 84.5 253.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 86.247 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN077775.D
Acq: 19 May 2023 19:33

Instrument :
MSVOA_N
ClientSampleId :
DUP02-20230517



Tgt Ion: 75 Resp: 130990
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

