

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052223\
 Data File : VN077800.D
 Acq On : 22 May 2023 19:29
 Operator : JC\MD
 Sample : 02880-19
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE137-20230519

Quant Time: May 23 04:21:38 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)

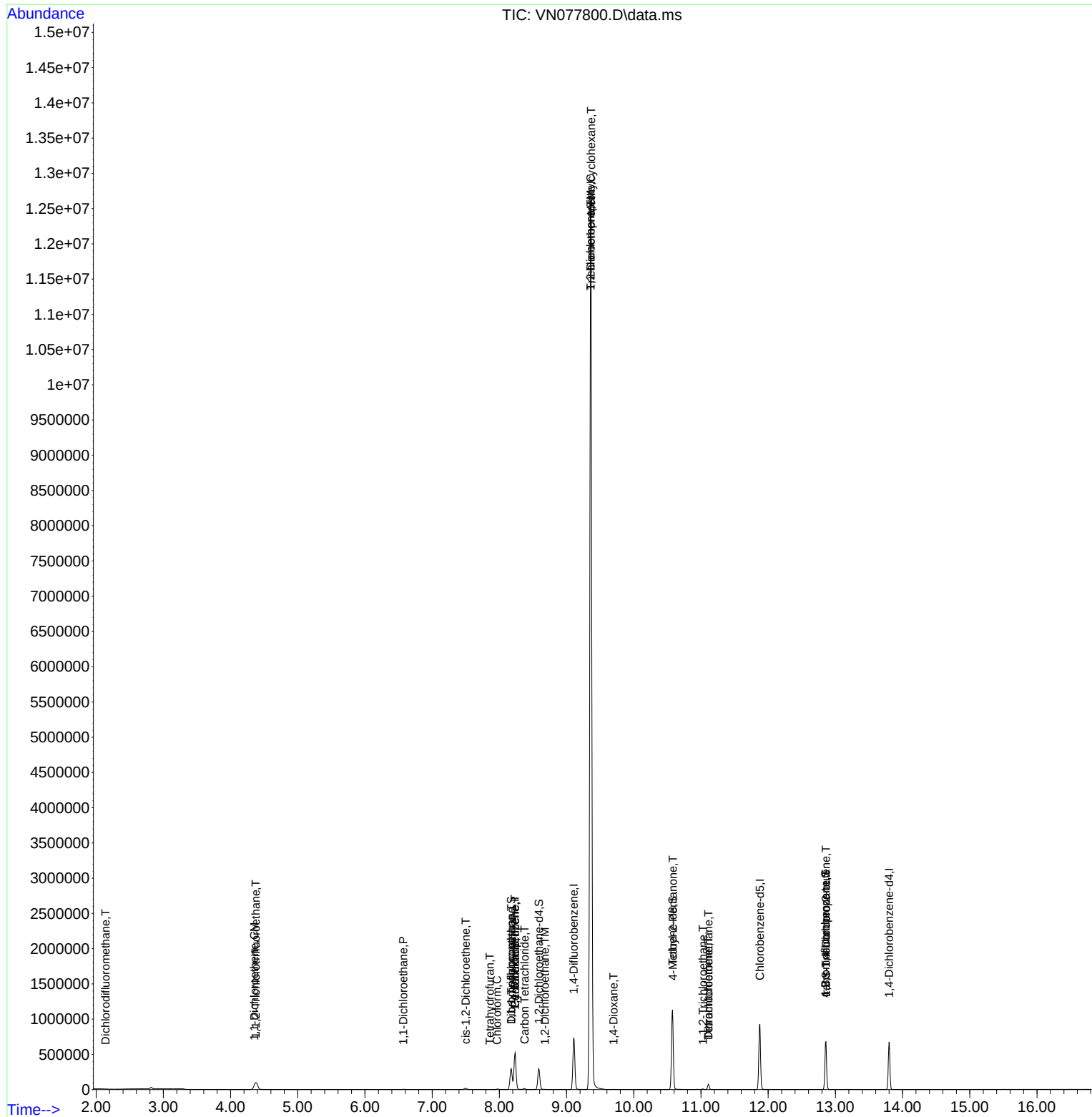
Internal Standards						
1) Pentafluorobenzene	8.235	168	366633	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	656095	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.876	117	562654	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	181557	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	247036	45.032	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.060%
35) Dibromofluoromethane	8.177	113	215665	50.409	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.820%
50) Toluene-d8	10.576	98	815518	49.523	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.040%
62) 4-Bromofluorobenzene	12.853	95	246723	42.421	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	84.840%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	1609	0.386	ug/l	96
3) Chloromethane	2.371	50	1684	Below Cal	#	61
9) 1,1,2-Trichlorotrifluo...	4.377	101	64762	15.962	ug/l	98
12) 1,1-Dichloroethene	4.353	96	15989	4.146	ug/l	# 90
13) Acrolein	4.194	56	86	Below Cal	#	16
20) Methylene Chloride	5.283	84	910	Below Cal	#	45
24) 1,1-Dichloroethane	6.571	63	5331	0.655	ug/l	# 82
27) cis-1,2-Dichloroethene	7.500	96	12527	2.412	ug/l	89
29) Tetrahydrofuran	7.859	42	462	0.261	ug/l	# 62
30) Chloroform	7.965	83	6959	0.778	ug/l	87
31) Cyclohexane	8.235	56	8813	1.182	ug/l	# 47
32) 1,1,1-Trichloroethane	8.177	97	2051	0.270	ug/l	# 37
36) 1,1-Dichloropropene	8.229	75	32530	5.198	ug/l	# 47
38) Carbon Tetrachloride	8.377	117	11441	1.811	ug/l	83
39) Methylcyclohexane	9.365	83	58825	7.678	ug/l	# 1
42) 1,2-Dichloroethane	8.677	62	1440	0.215	ug/l	84
44) Trichloroethene	9.359	130	4426878	946.759	ug/l	99
45) 1,2-Dichloropropane	9.359	63	14573	3.094	ug/l	# 1
49) 1,4-Dioxane	9.700	88	702	8.605	ug/l	# 13
51) 4-Methyl-2-Pentanone	10.582	43	3153	0.582	ug/l	# 1
55) 1,1,2-Trichloroethane	11.029	97	2503	0.548	ug/l	# 80
60) Dibromochloromethane	11.112	129	16903	3.587	ug/l	# 11
64) Tetrachloroethene	11.112	164	17431	4.430	ug/l	92
76) 1,2,3-Trichloropropane	12.859	75	131155	28.845	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.859	75	131155	92.205	ug/l	# 15

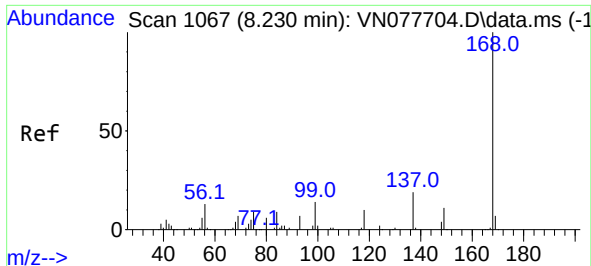
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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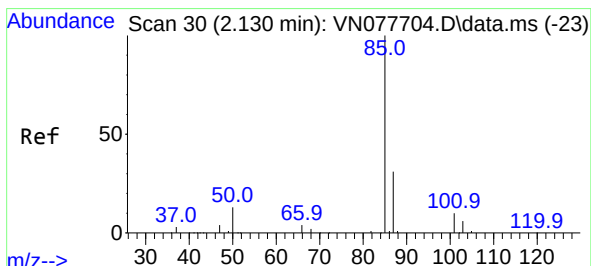
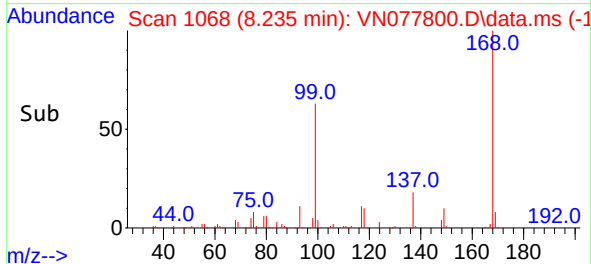
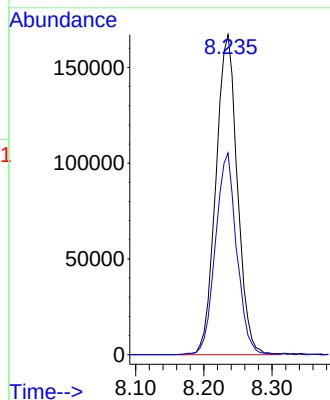
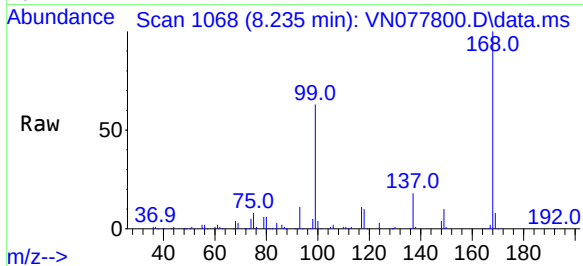




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

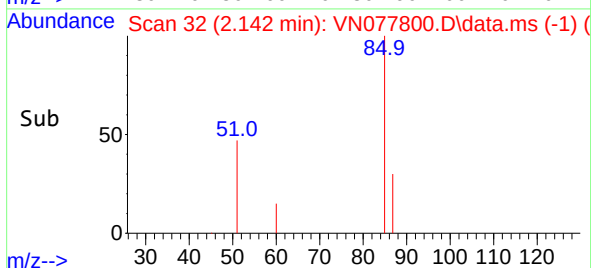
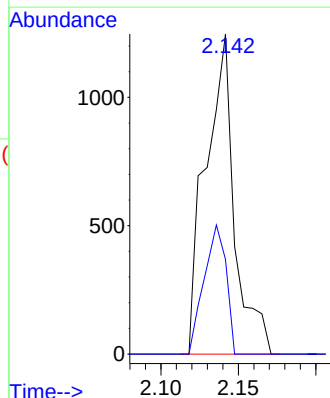
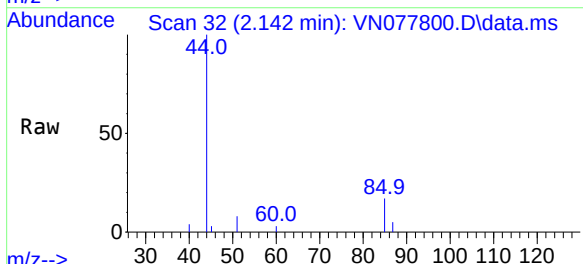
Instrument :
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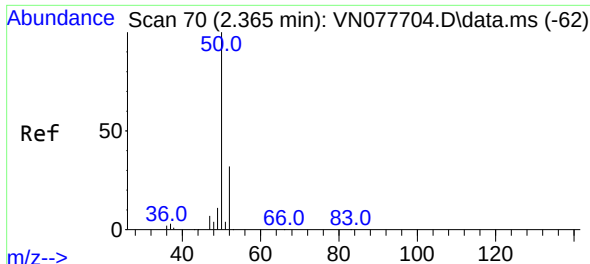
Tgt Ion:168 Resp: 366633
Ion Ratio Lower Upper
168 100
99 62.8 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.386 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.012 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 85 Resp: 1609
Ion Ratio Lower Upper
85 100
87 29.6 15.8 47.4

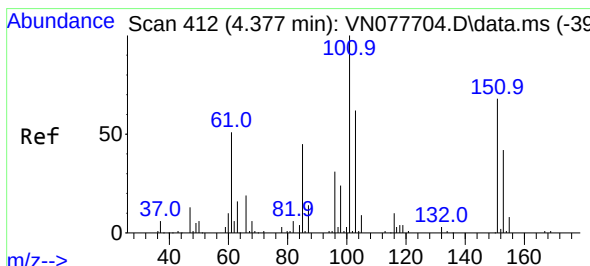
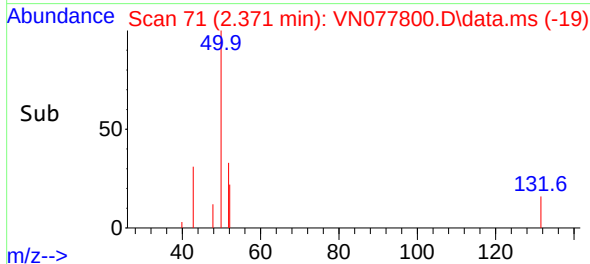
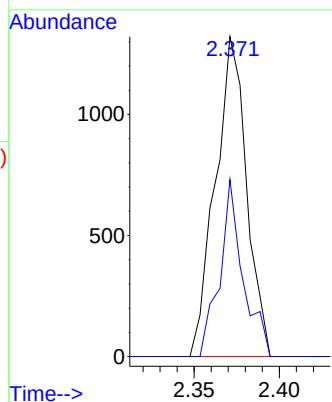
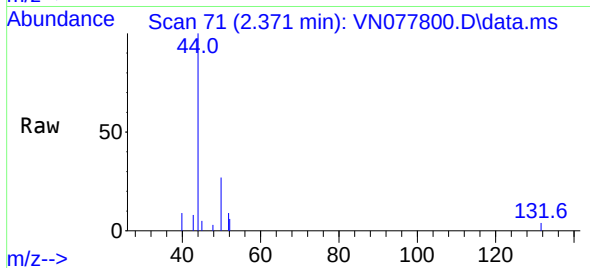




#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

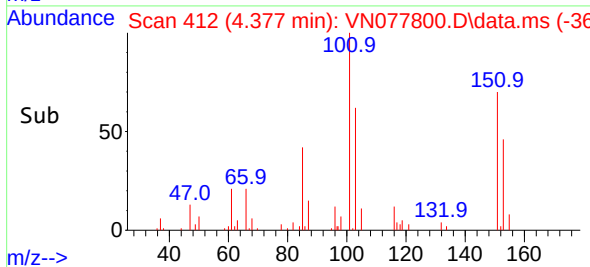
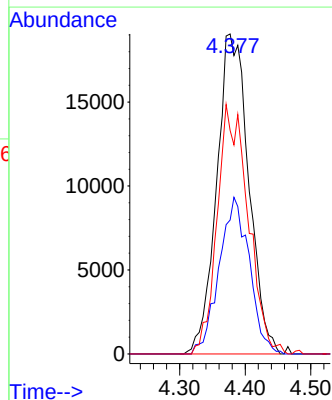
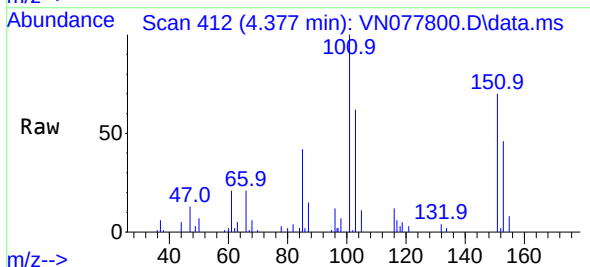
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

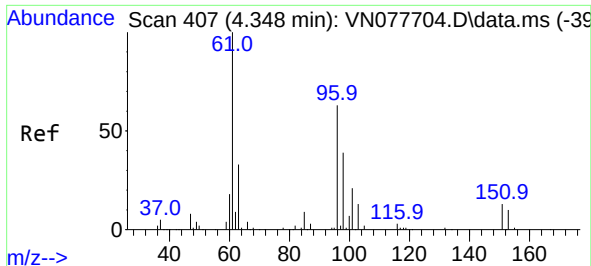
Tgt Ion: 50 Resp: 1684
Ion Ratio Lower Upper
50 100
52 55.3 26.5 39.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 15.962 ug/l
RT: 4.377 min Scan# 412
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 101 Resp: 64762
Ion Ratio Lower Upper
101 100
85 46.1 36.6 55.0
151 75.1 57.6 86.4

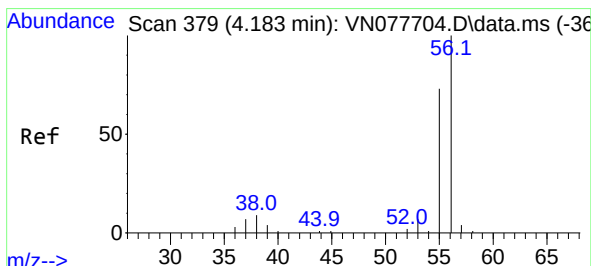
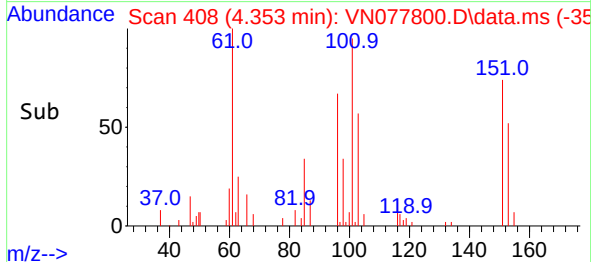
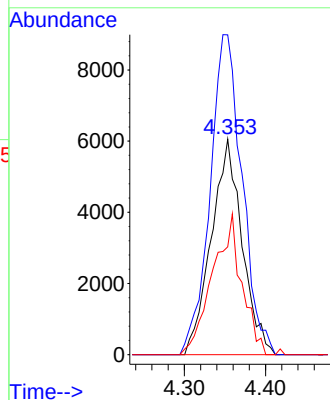
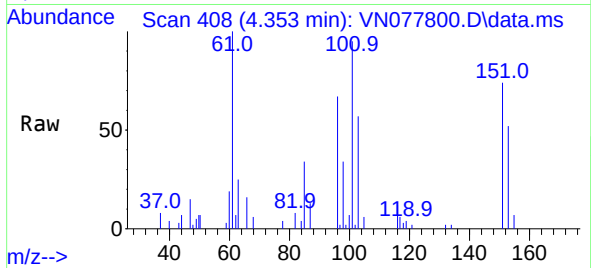




#12
1,1-Dichloroethene
Concen: 4.146 ug/l
RT: 4.353 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

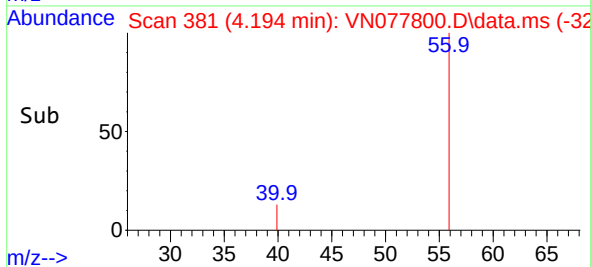
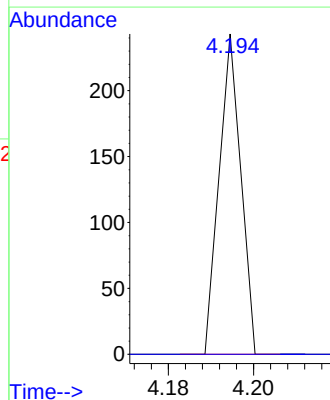
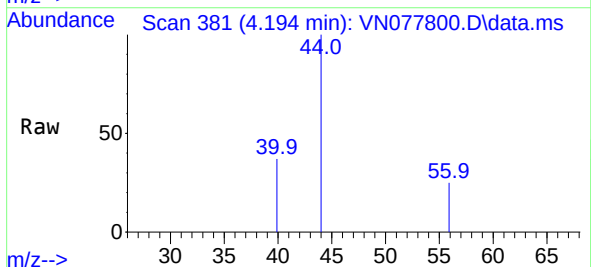
Instrument :
MSVOA_N
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RE137-20230519

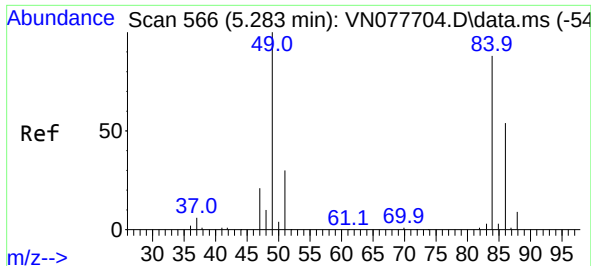
Tgt Ion: 96 Resp: 15989
Ion Ratio Lower Upper
96 100
61 148.4 112.7 169.1
98 50.0 51.2 76.8#



#13
Acrolein
Concen: Below Cal
RT: 4.194 min Scan# 381
Delta R.T. 0.005 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

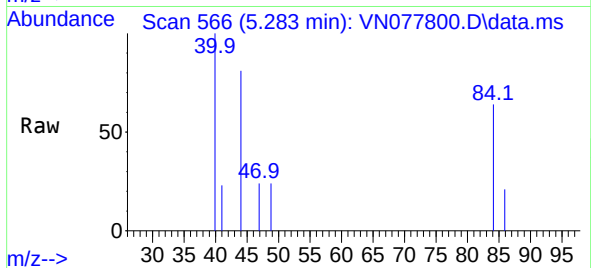
Tgt Ion: 56 Resp: 86
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



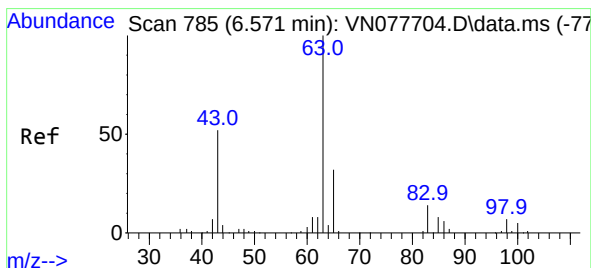
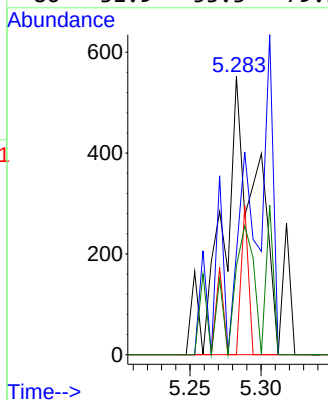
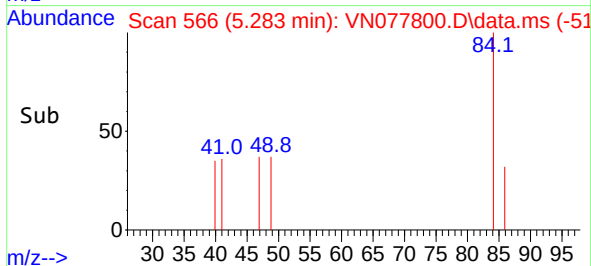


#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 50
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

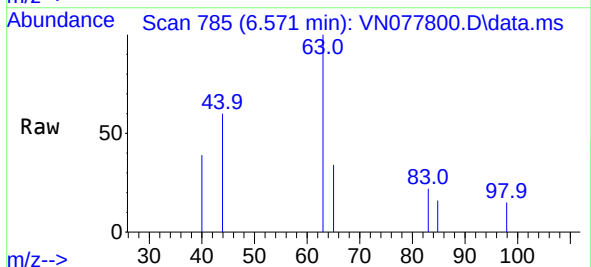
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519



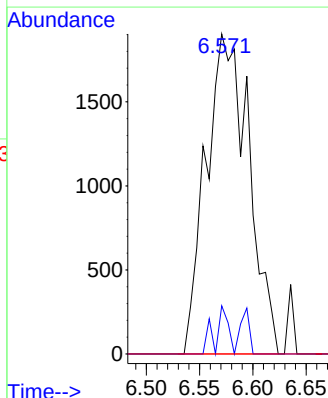
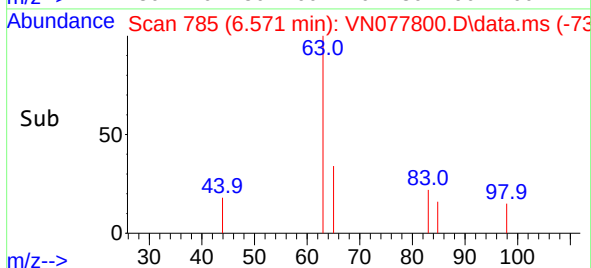
Tgt Ion: 84 Resp: 910
Ion Ratio Lower Upper
84 100
49 36.8 79.7 119.5#
51 0.0 25.2 37.8#
86 31.9 53.3 79.9#

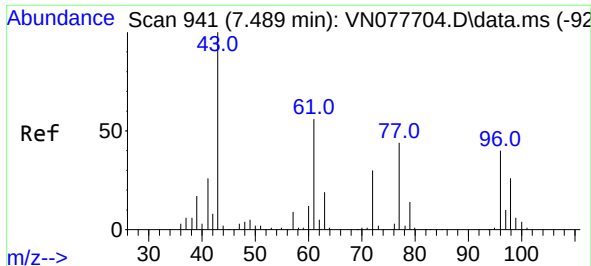


#24
1,1-Dichloroethane
Concen: 0.655 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29



Tgt Ion: 63 Resp: 5331
Ion Ratio Lower Upper
63 100
98 15.1 3.9 11.7#
100 0.0 2.5 7.4#

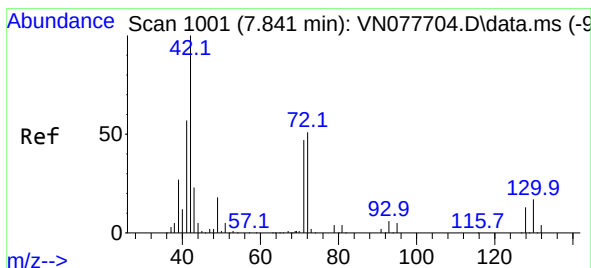
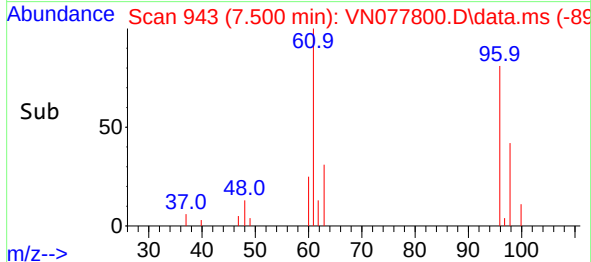
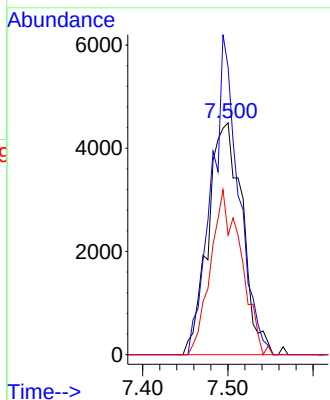
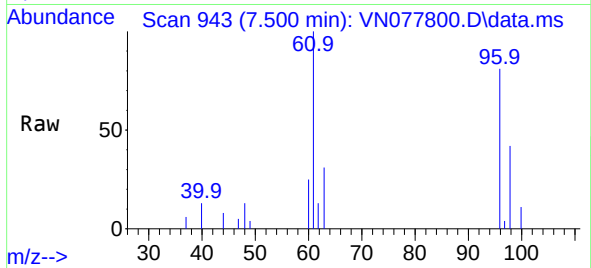




#27
cis-1,2-Dichloroethene
Concen: 2.412 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

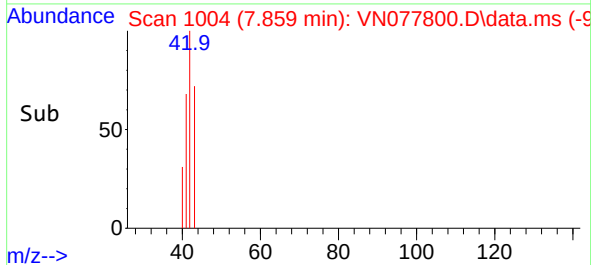
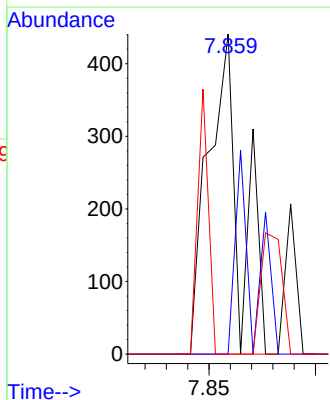
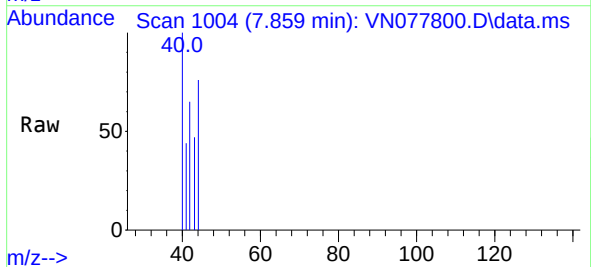
Instrument :
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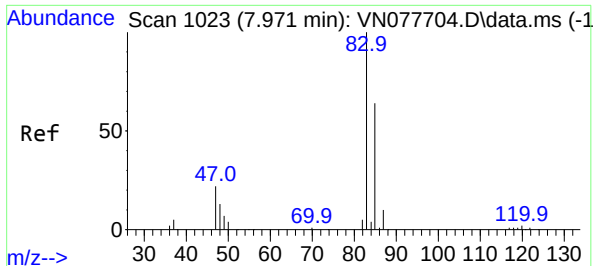
Tgt Ion: 96 Resp: 12527
Ion Ratio Lower Upper
96 100
61 109.3 0.0 255.2
98 63.2 0.0 128.8



#29
Tetrahydrofuran
Concen: 0.261 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.018 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 42 Resp: 462
Ion Ratio Lower Upper
42 100
72 36.4 49.8 74.6#
71 27.9 47.4 71.2#

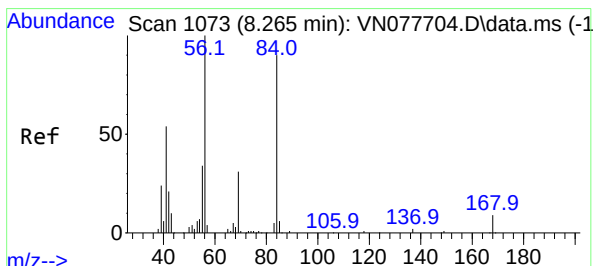
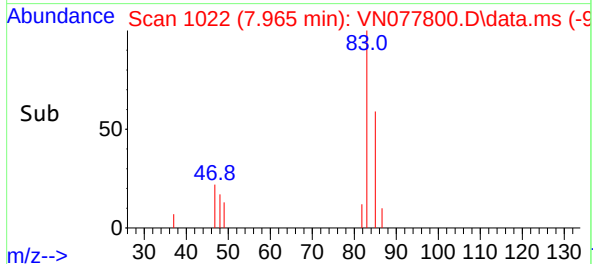
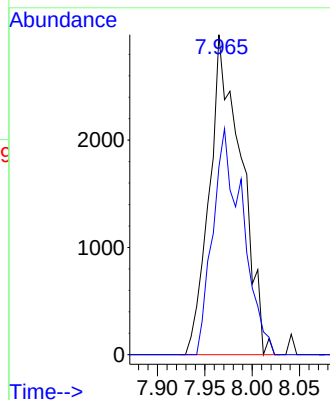
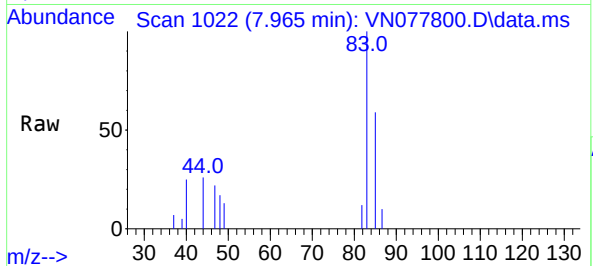




#30
Chloroform
Concen: 0.778 ug/l
RT: 7.965 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

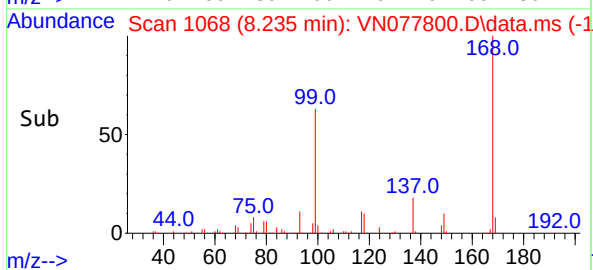
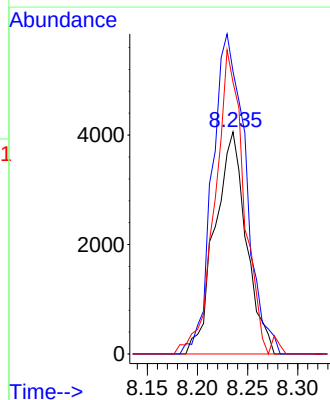
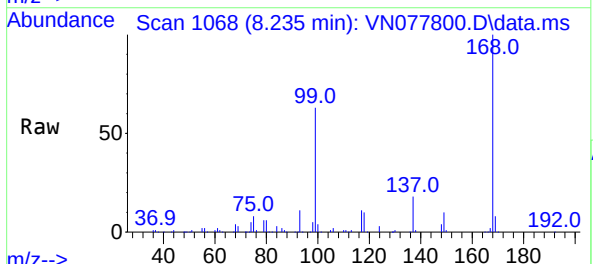
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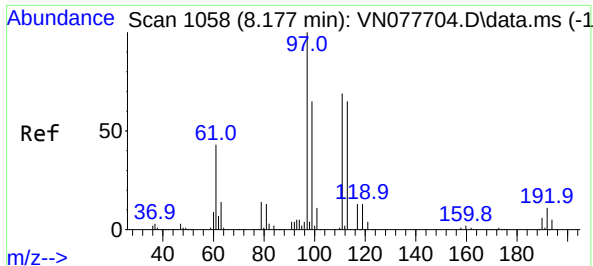
Tgt Ion: 83 Resp: 6959
Ion Ratio Lower Upper
83 100
85 58.7 55.4 83.0



#31
Cyclohexane
Concen: 1.182 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 56 Resp: 8813
Ion Ratio Lower Upper
56 100
69 127.2 26.8 40.2#
84 118.5 81.8 122.6

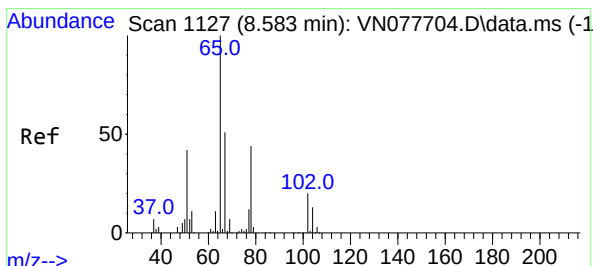
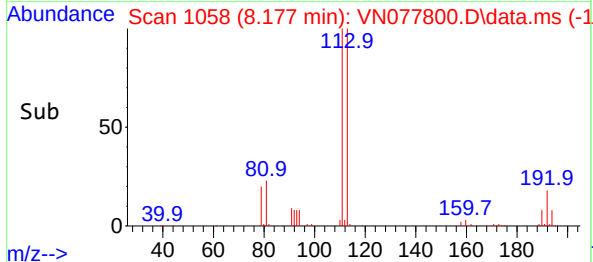
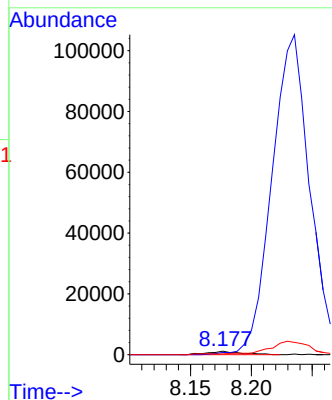
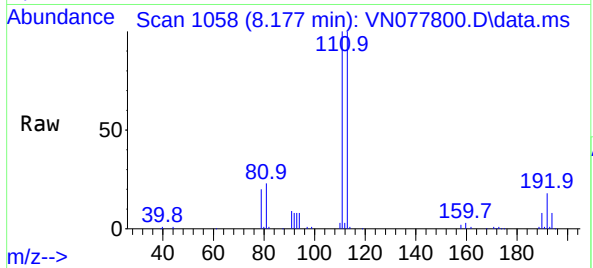




#32
 1,1,1-Trichloroethane
 Concen: 0.270 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. 0.006 min
 Lab File: VN077800.D
 Acq: 22 May 2023 19:29

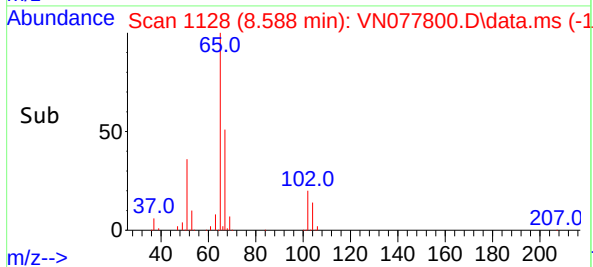
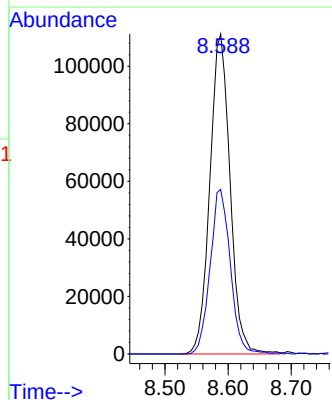
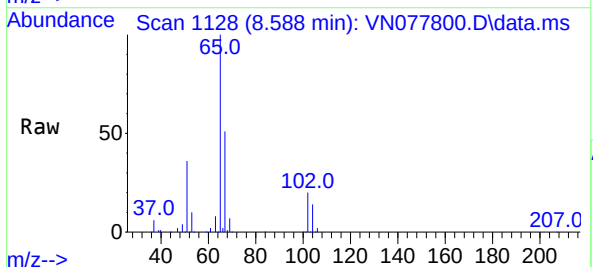
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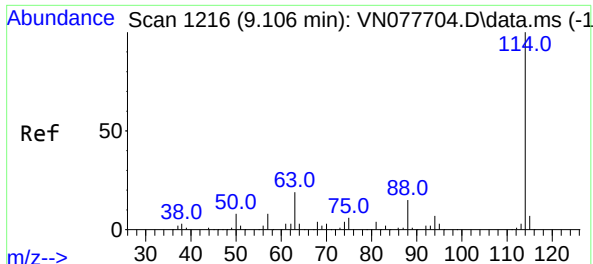
Tgt Ion: 97 Resp: 2051
 Ion Ratio Lower Upper
 97 100
 99 0.0 50.3 75.5#
 61 19.2 34.7 52.1#



#33
 1,2-Dichloroethane-d4
 Concen: 45.032 ug/l
 RT: 8.588 min Scan# 1128
 Delta R.T. 0.006 min
 Lab File: VN077800.D
 Acq: 22 May 2023 19:29

Tgt Ion: 65 Resp: 247036
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 106.6

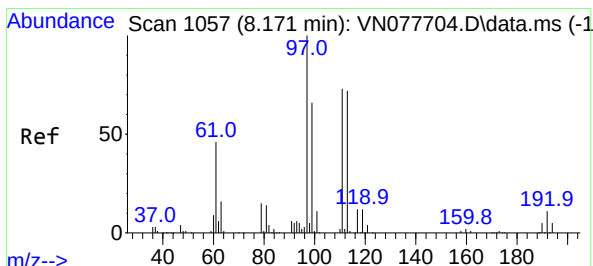
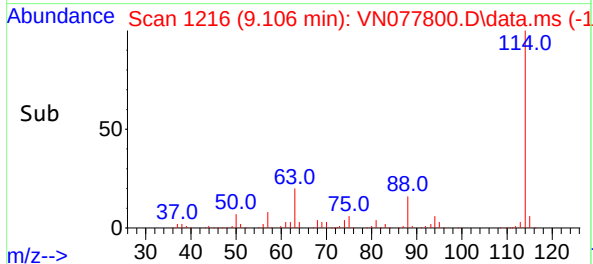
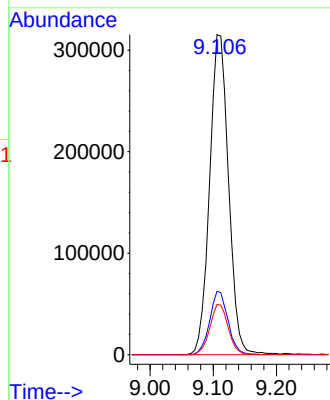
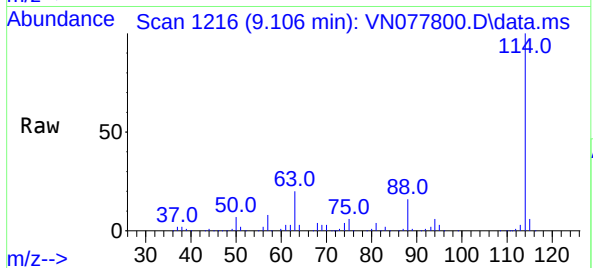




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

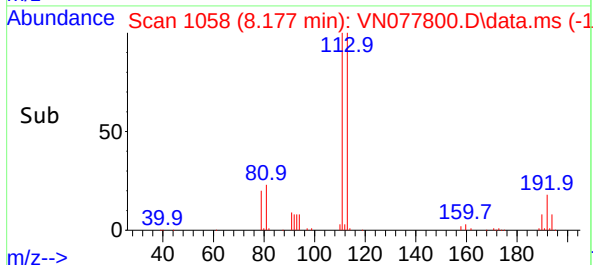
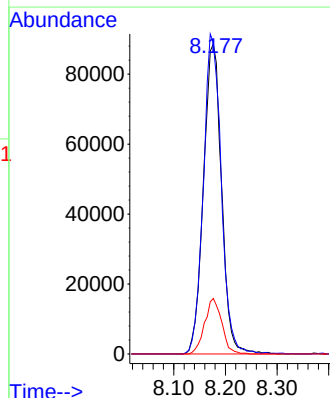
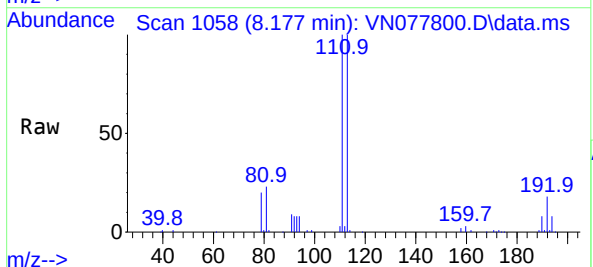
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

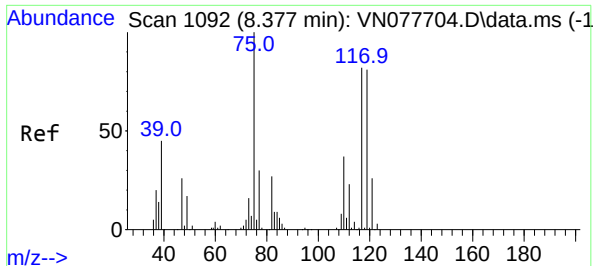
Tgt Ion:114 Resp: 656095
Ion Ratio Lower Upper
114 100
63 19.8 0.0 36.4
88 15.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.409 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion:113 Resp: 215665
Ion Ratio Lower Upper
113 100
111 101.6 82.6 123.8
192 16.9 12.7 19.1

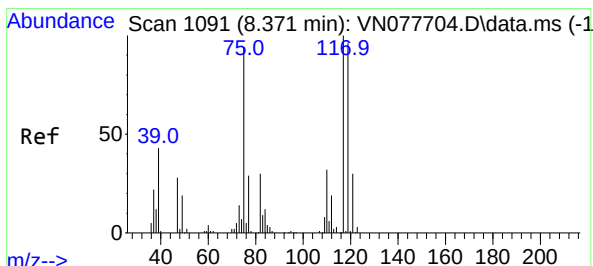
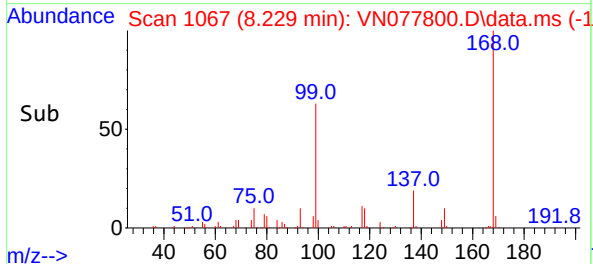
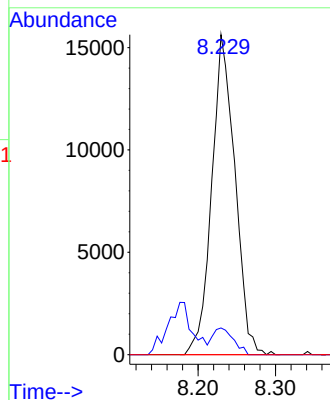
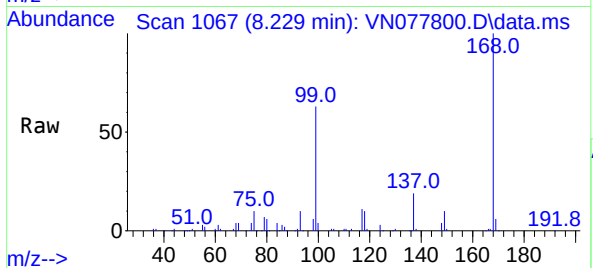




#36
1,1-Dichloropropene
Concen: 5.198 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

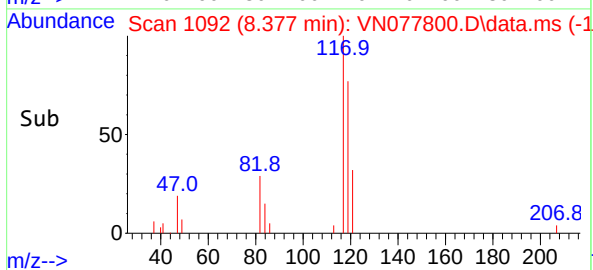
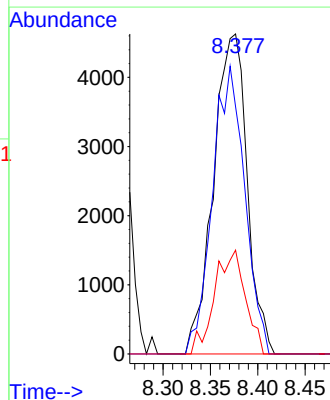
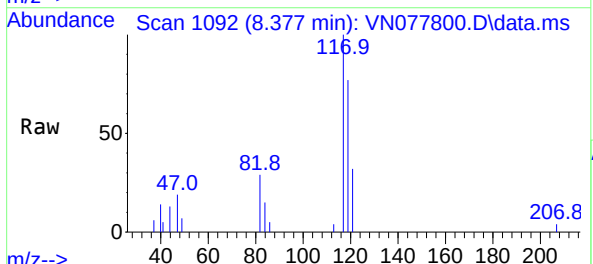
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

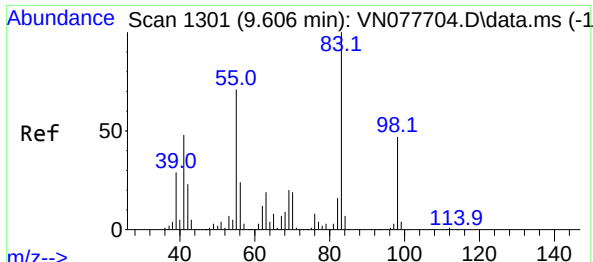
Tgt Ion: 75 Resp: 32530
Ion Ratio Lower Upper
75 100
110 7.5 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 1.811 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 117 Resp: 11441
Ion Ratio Lower Upper
117 100
119 77.3 77.3 115.9
121 32.4 23.3 34.9

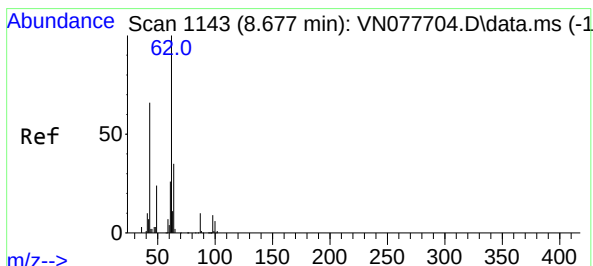
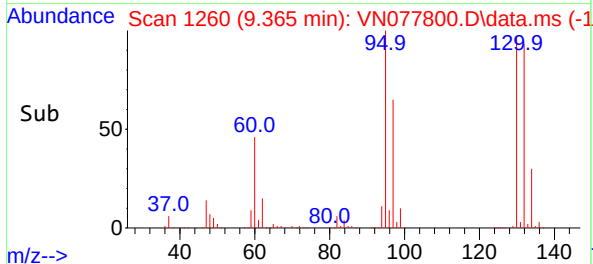
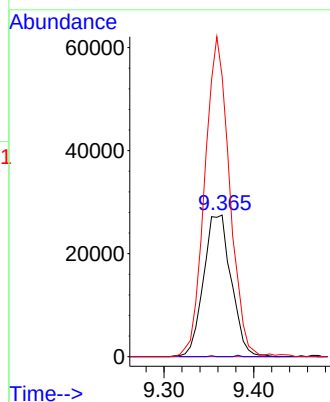
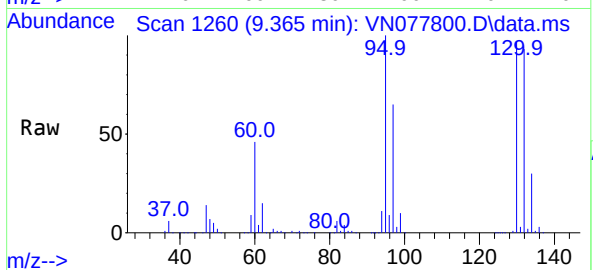




#39
Methylcyclohexane
Concen: 7.678 ug/l
RT: 9.365 min Scan# 11
Delta R.T. -0.241 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

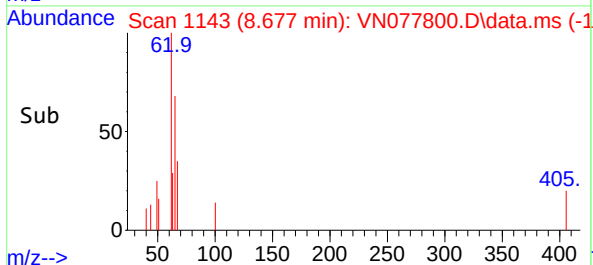
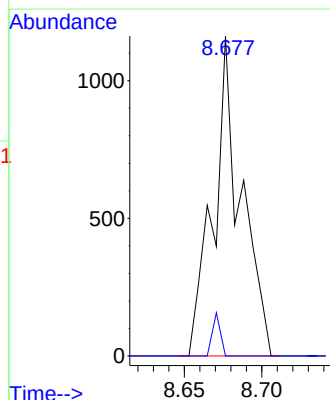
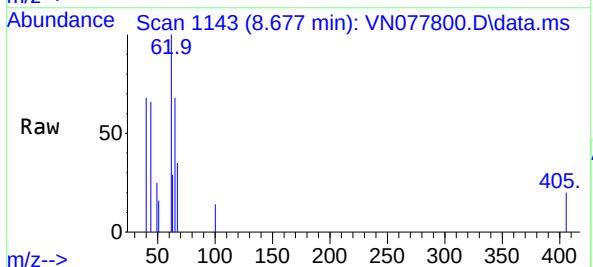
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

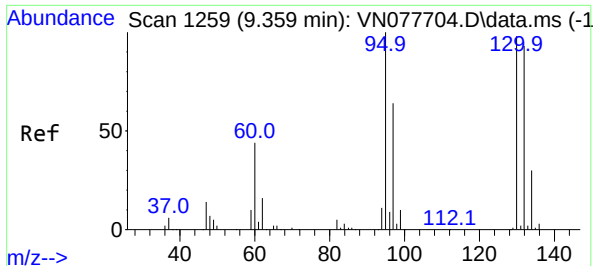
Tgt Ion: 83 Resp: 58825
Ion Ratio Lower Upper
83 100
55 0.0 49.1 73.7#
98 196.5 40.6 61.0#



#42
1,2-Dichloroethane
Concen: 0.215 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 62 Resp: 1440
Ion Ratio Lower Upper
62 100
98 3.8 0.0 19.8

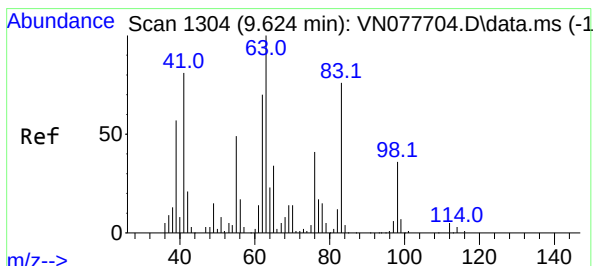
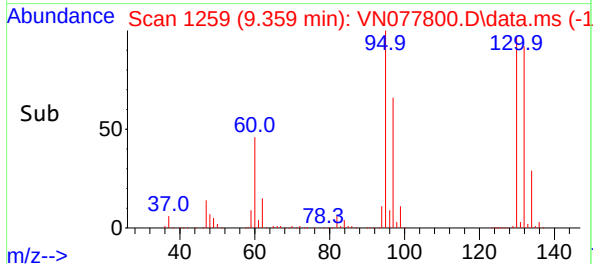
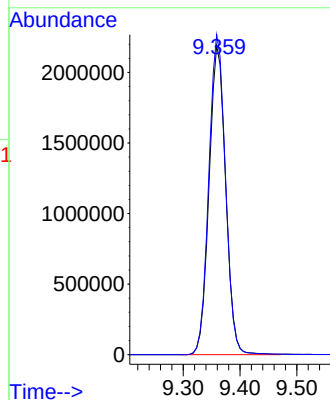
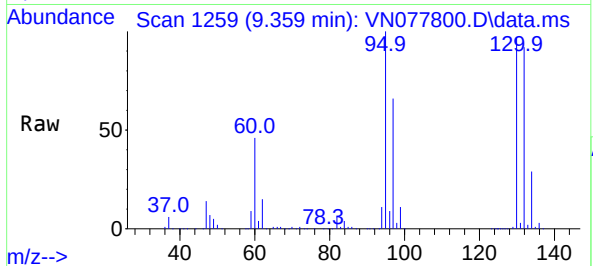




#44
Trichloroethene
Concen: 946.759 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

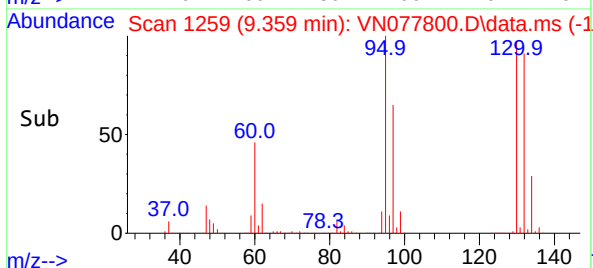
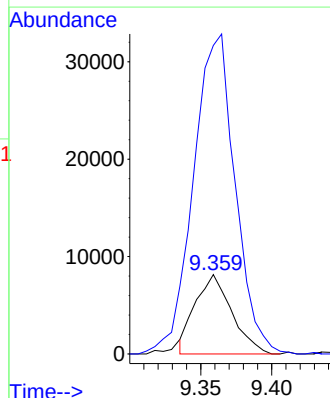
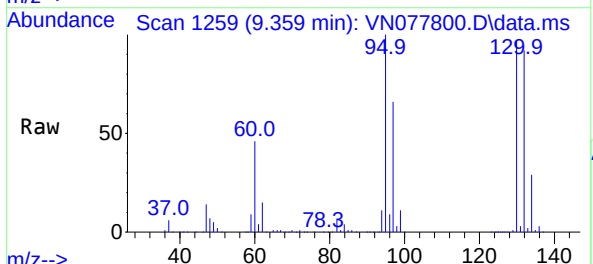
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

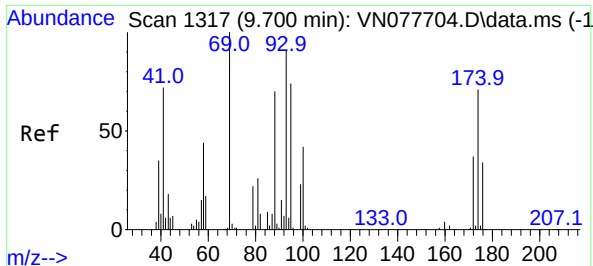
Tgt Ion:130 Resp: 4426878
Ion Ratio Lower Upper
130 100
95 103.5 0.0 204.6



#45
1,2-Dichloropropane
Concen: 3.094 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.265 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 63 Resp: 14573
Ion Ratio Lower Upper
63 100
65 385.7 23.9 35.9#

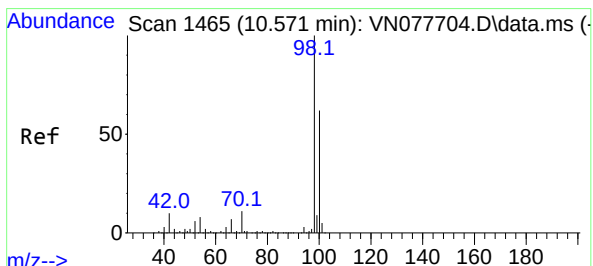
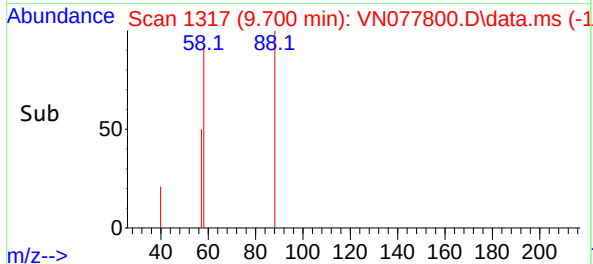
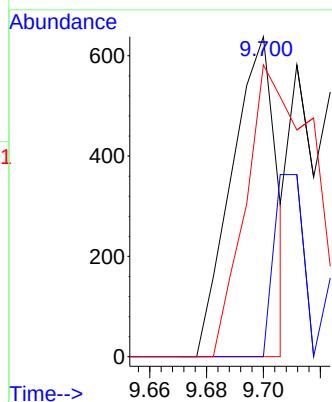
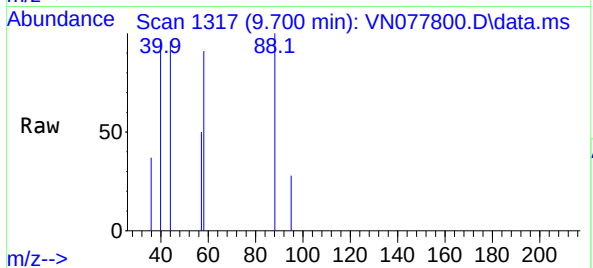




#49
1,4-Dioxane
Concen: 8.605 ug/l
RT: 9.700 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

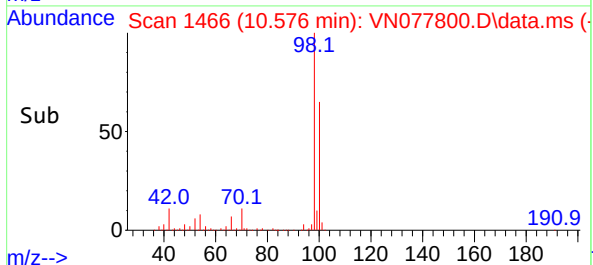
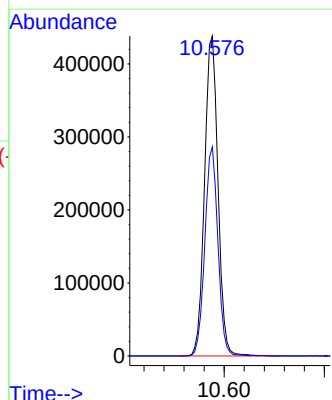
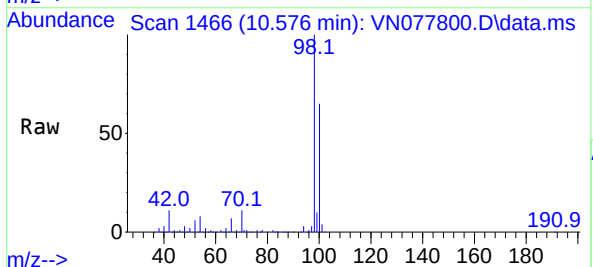
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

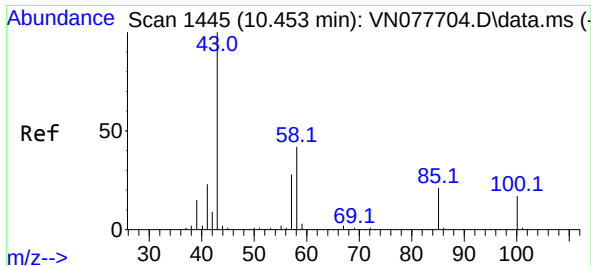
Tgt Ion: 88 Resp: 702
Ion Ratio Lower Upper
88 100
43 44.4 17.0 25.6#
58 134.5 47.0 70.4#



#50
Toluene-d8
Concen: 49.523 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion: 98 Resp: 815518
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.582 ug/l

RT: 10.582 min Scan# 1445

Delta R.T. 0.135 min

Lab File: VN077800.D

Acq: 22 May 2023 19:29

Instrument :

MSVOA_N

ClientSampleId :

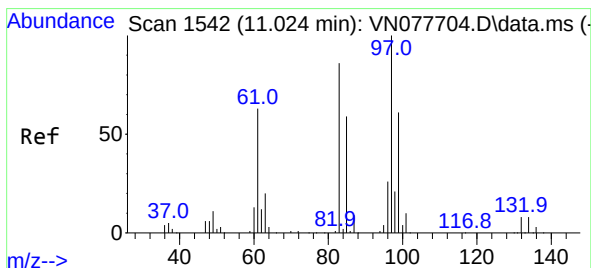
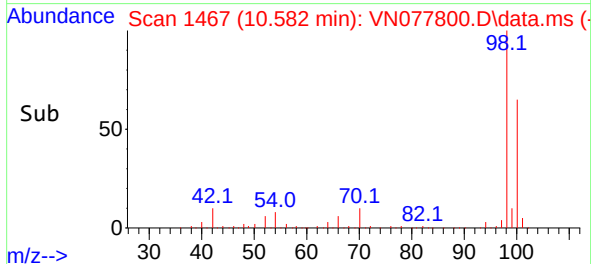
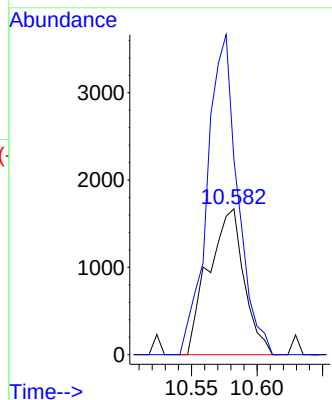
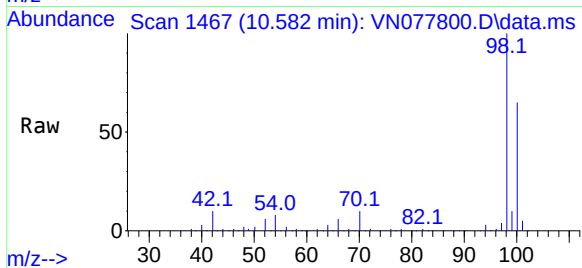
RE137-20230519

Tgt Ion: 43 Resp: 3153

Ion Ratio Lower Upper

43 100

58 188.2 36.6 54.8#



#55

1,1,2-Trichloroethane

Concen: 0.548 ug/l

RT: 11.029 min Scan# 1543

Delta R.T. 0.006 min

Lab File: VN077800.D

Acq: 22 May 2023 19:29

Tgt Ion: 97 Resp: 2503

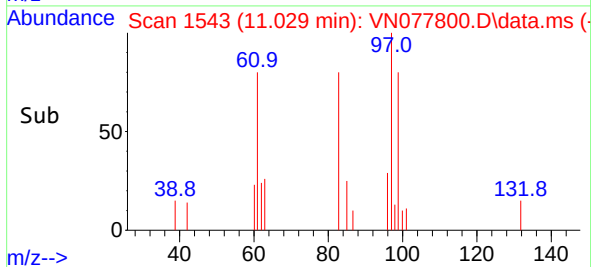
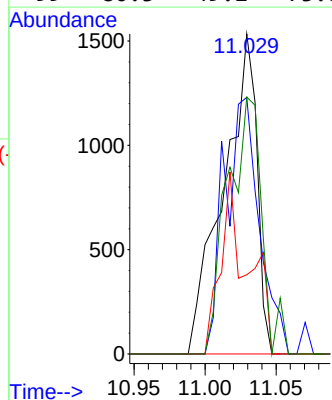
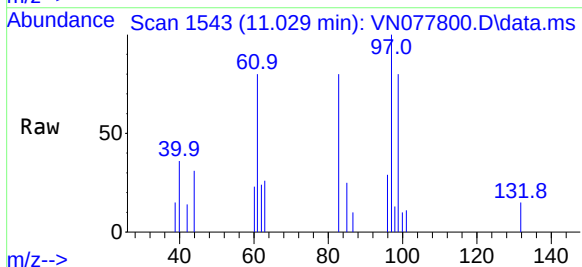
Ion Ratio Lower Upper

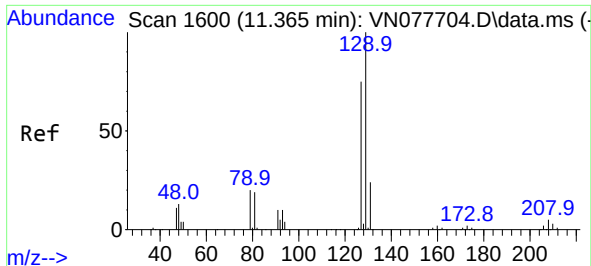
97 100

83 80.2 65.1 97.7

85 24.8 43.4 65.2#

99 80.3 49.2 73.8#

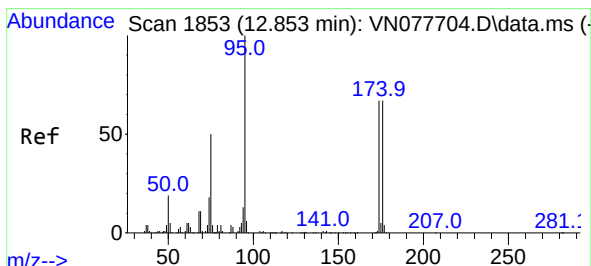
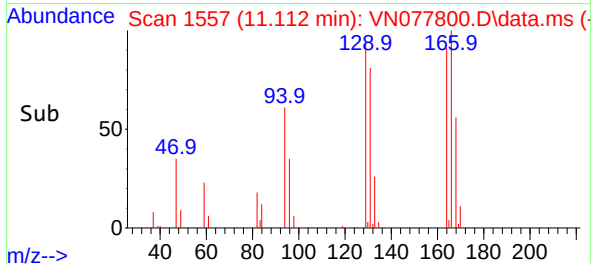
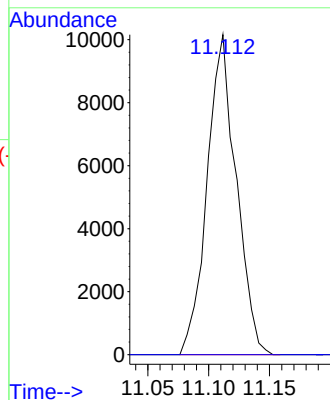
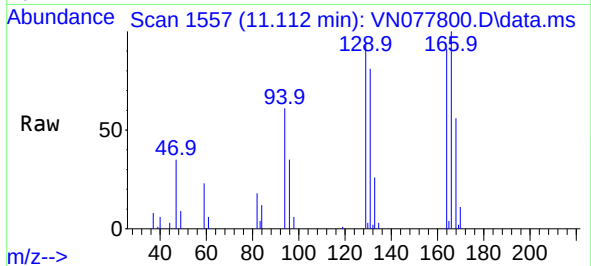




#60
Dibromochloromethane
Concen: 3.587 ug/l
RT: 11.112 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

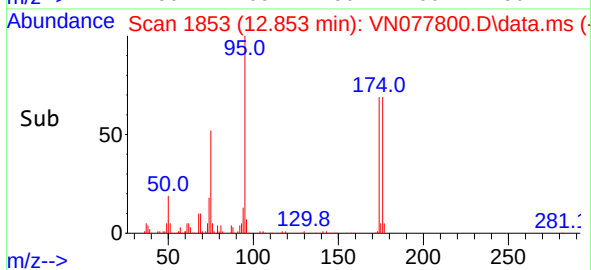
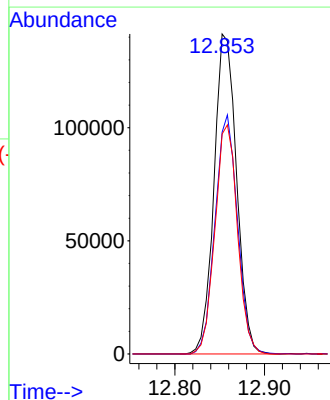
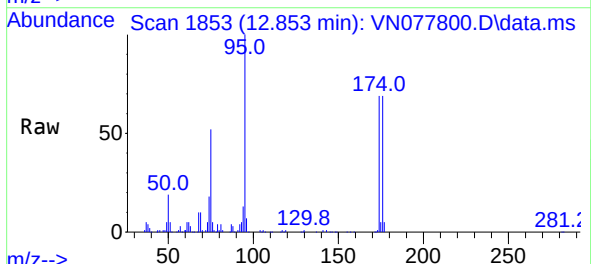
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

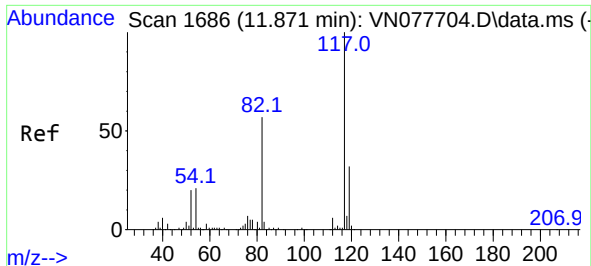
Tgt Ion:129 Resp: 16903
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 42.421 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

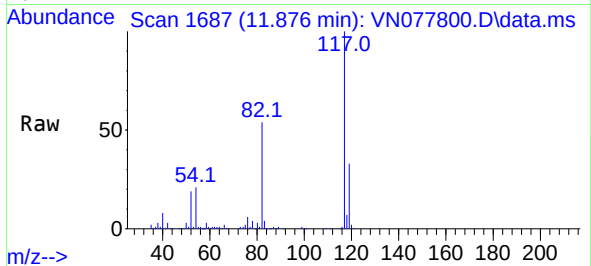
Tgt Ion: 95 Resp: 246723
Ion Ratio Lower Upper
95 100
174 74.4 0.0 143.8
176 71.4 0.0 135.8



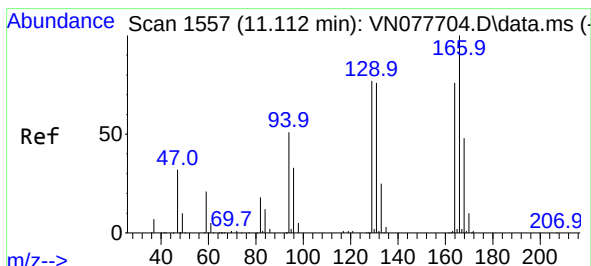
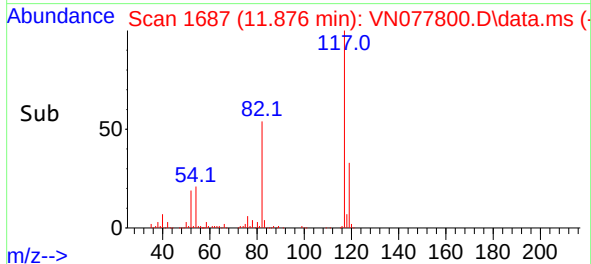
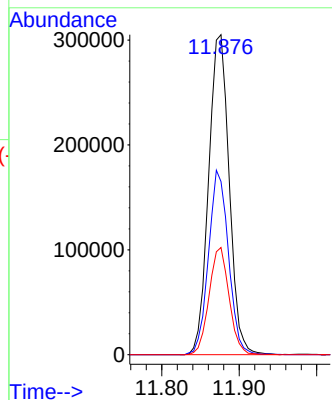


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.876 min Scan# 1170
Delta R.T. 0.006 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Instrument :
MSVOA_N
ClientSampleId :
RE137-20230519

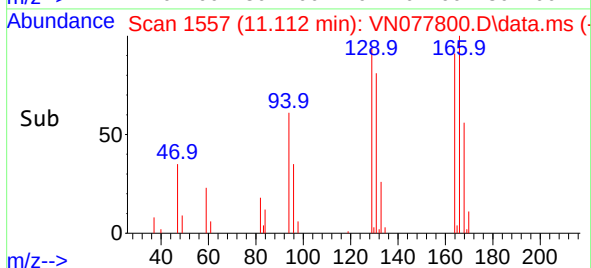
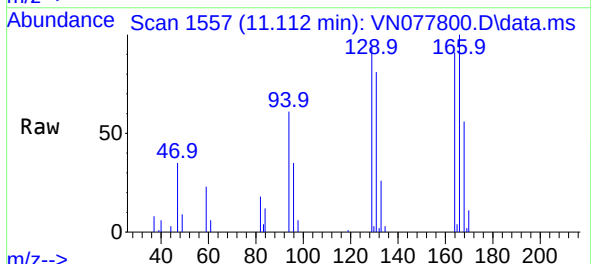
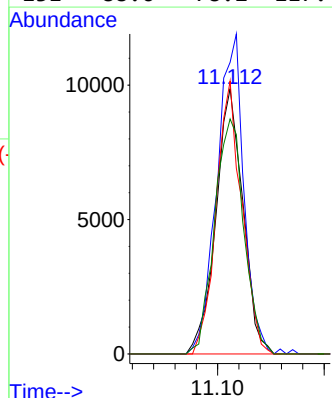


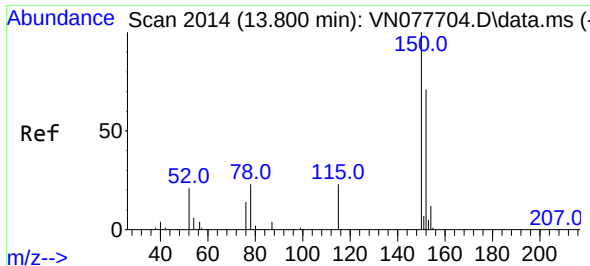
Tgt Ion:117 Resp: 562654
Ion Ratio Lower Upper
117 100
82 54.1 44.0 66.0
119 33.5 25.6 38.4



#64
Tetrachloroethene
Concen: 4.430 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VN077800.D
Acq: 22 May 2023 19:29

Tgt Ion:164 Resp: 17431
Ion Ratio Lower Upper
164 100
166 110.0 101.4 152.0
129 103.0 82.4 123.6
131 88.6 78.2 117.4

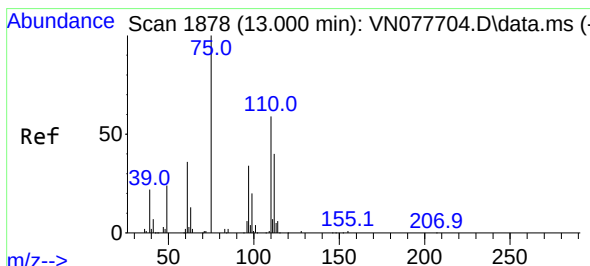
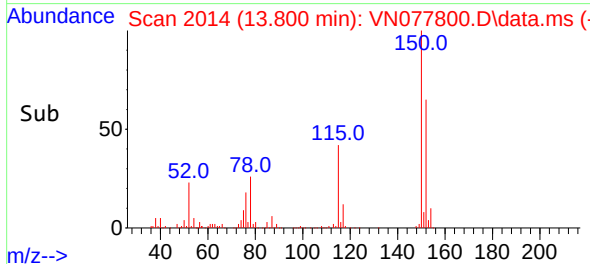
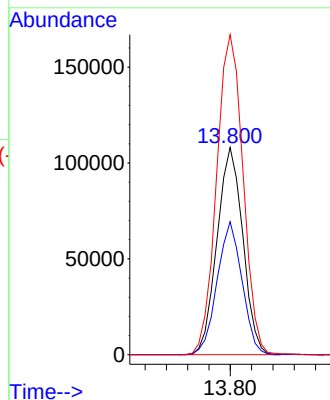
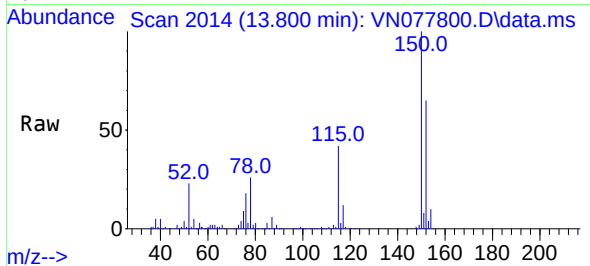




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN077800.D
 Acq: 22 May 2023 19:29

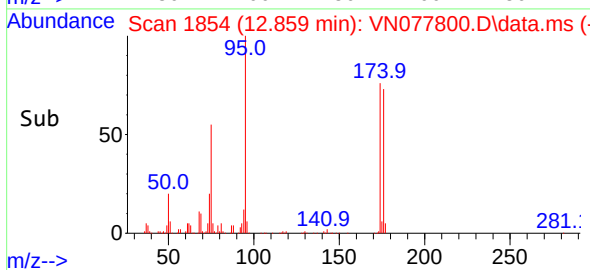
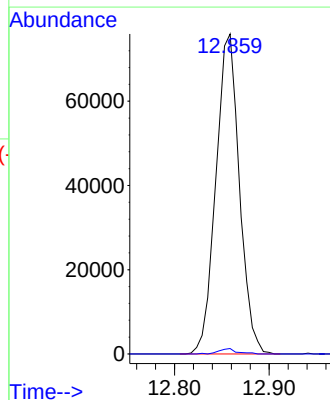
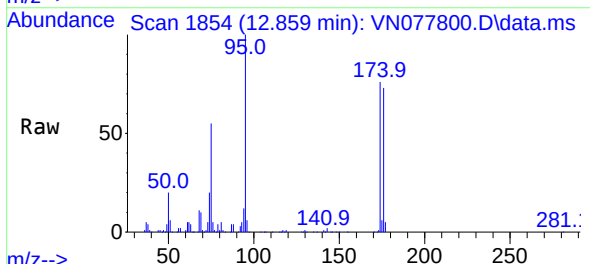
Instrument :
 MSVOA_N
 ClientSampleId :
 RE137-20230519

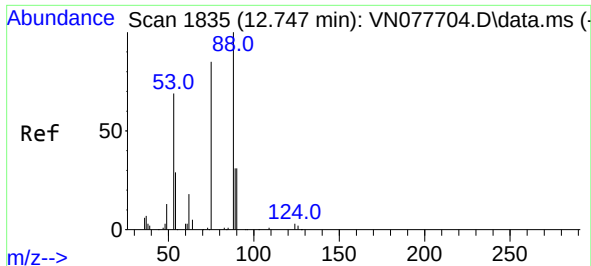
Tgt Ion:152 Resp: 181557
 Ion Ratio Lower Upper
 152 100
 115 62.0 32.3 96.8
 150 158.8 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 28.845 ug/l
 RT: 12.859 min Scan# 1854
 Delta R.T. -0.141 min
 Lab File: VN077800.D
 Acq: 22 May 2023 19:29

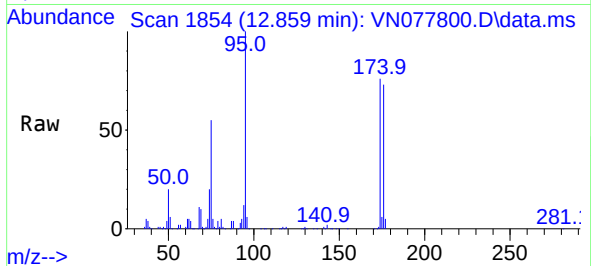
Tgt Ion: 75 Resp: 131155
 Ion Ratio Lower Upper
 75 100
 77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.205 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN077800.D
 Acq: 22 May 2023 19:29

Instrument :
 MSVOA_N
 ClientSampleId :
 RE137-20230519



Tgt Ion: 75 Resp: 131155
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.1 38.8 58.2#

