

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121522\
 Data File : BG055982.D
 Acq On : 15 Dec 2022 18:29
 Operator : CG/JU
 Sample : N6037-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RB-16-(2.5-4.5)

Quant Time: Dec 16 04:05:17 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 14 02:24:06 2022
 Response via : Initial Calibration

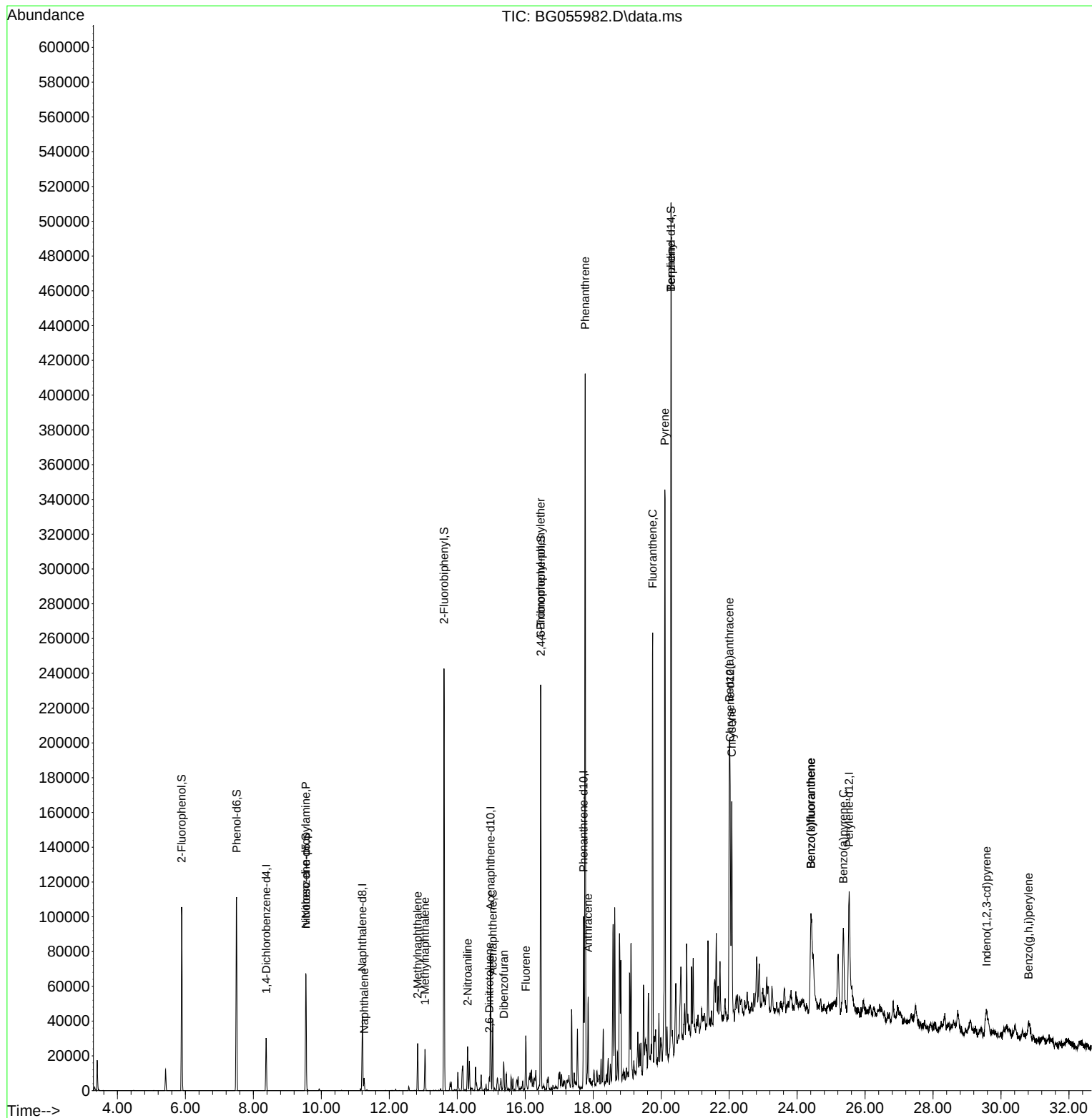
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.375	152	9951	20.000	ng	0.00
21) Naphthalene-d8	11.207	136	36911	20.000	ng	# 0.00
39) Acenaphthene-d10	14.979	164	29872	20.000	ng	0.00
64) Phenanthrene-d10	17.717	188	72055	20.000	ng	0.00
76) Chrysene-d12	22.030	240	74671	20.000	ng	0.00
86) Perylene-d12	25.531	264	90378	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.890	112	43803	103.232	ng	0.00
7) Phenol-d6	7.505	99	54450	99.774	ng	0.01
23) Nitrobenzene-d5	9.544	82	36709	69.500	ng	0.00
42) 2,4,6-Tribromophenol	16.460	330	60839	84.463	ng	0.00
45) 2-Fluorobiphenyl	13.610	172	133718	62.780	ng	0.00
79) Terphenyl-d14	20.291	244	261249	61.835	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propyla...	9.544	70	5834	14.914	ng	# 60
31) Naphthalene	11.260	128	6886	3.536	ng	# 95
37) 2-Methylnaphthalene	12.835	142	13832	8.039	ng	98
38) 1-Methylnaphthalene	13.052	142	11913	7.107	ng	99
48) 2-Nitroaniline	14.309	65	61	2.992	ng	# 1
51) 2,6-Dinitrotoluene	14.944	165	833	2.084	ng	# 40
52) Acenaphthene	15.044	154	14936	8.472	ng	97
55) Dibenzofuran	15.373	168	7036	2.373	ng	# 88
58) Fluorene	16.019	166	15420	6.363	ng	# 99
67) 4-Bromophenyl-phenylether	16.454	248	3463	3.280	ng	# 1
71) Phenanthrene	17.764	178	277648	73.529	ng	99
72) Anthracene	17.852	178	36665	9.815	ng	97
75) Fluoranthene	19.750	202	175302	33.153	ng	100
77) Benzidine	20.291	184	4567	3.483	ng	# 85
78) Pyrene	20.108	202	239177	52.934	ng	99
81) Benzo(a)anthracene	22.006	228	107605	20.479	ng	100
83) Chrysene	22.077	228	100007	20.308	ng	97
87) Indeno(1,2,3-cd)pyrene	29.574	276	34889	4.801	ng	# 90
88) Benzo(b)fluoranthene	24.409	252	89135	15.239	ng	# 95
89) Benzo(k)fluoranthene	24.409	252	89135	15.274	ng	97
90) Benzo(a)pyrene	25.361	252	69824	14.122	ng	99
92) Benzo(g,h,i)perylene	30.813	276	16386	2.786	ng	# 88

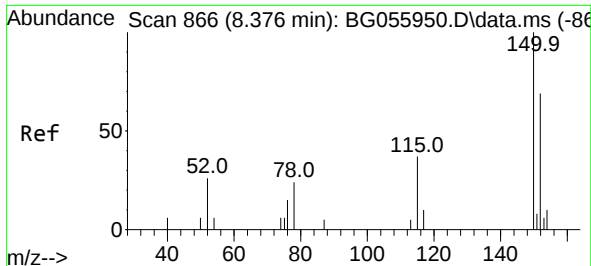
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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RB-16-(2.5-4.5)

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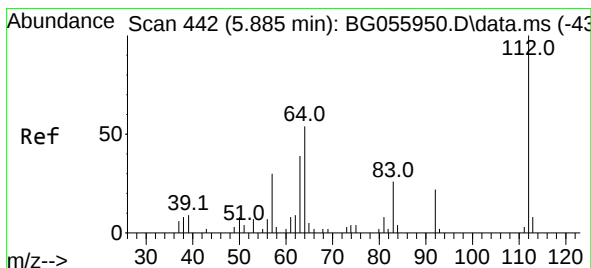
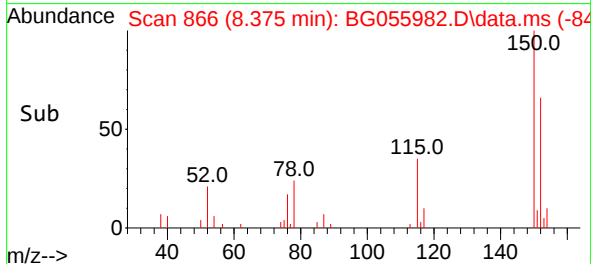
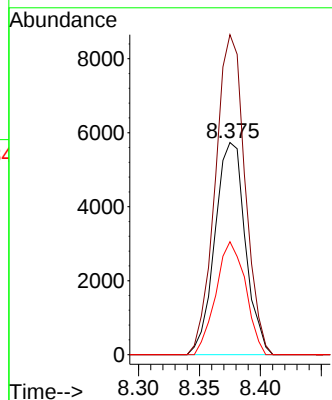
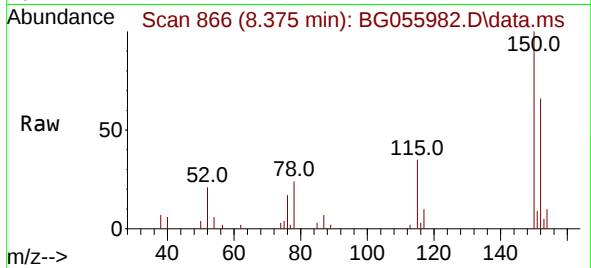




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.375 min Scan# 80
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

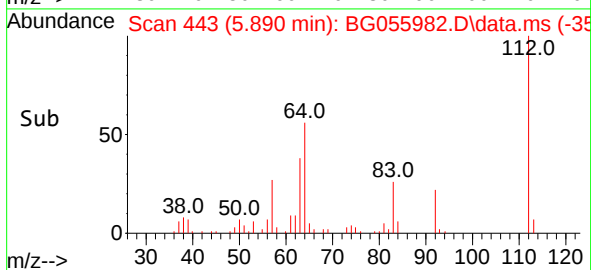
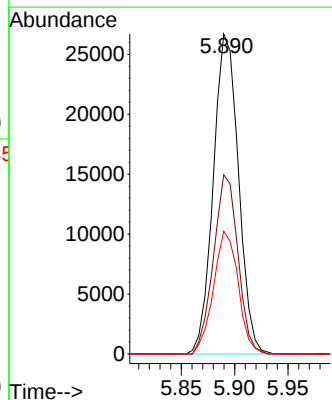
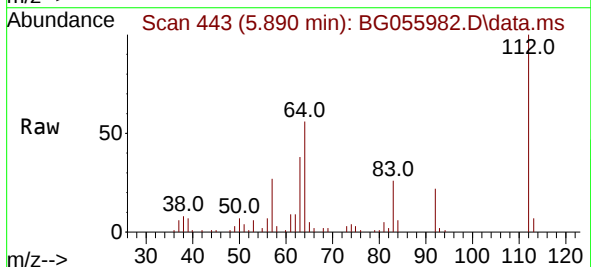
Instrument :
BNA_G
ClientSampleId :
RB-16-(2.5-4.5)

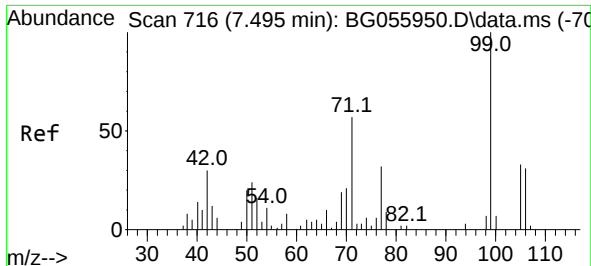
Tgt Ion:152 Resp: 9951
Ion Ratio Lower Upper
152 100
150 150.9 115.7 173.5
115 53.2 43.0 64.4



#5
2-Fluorophenol
Concen: 103.232 ng
RT: 5.890 min Scan# 443
Delta R.T. 0.005 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:112 Resp: 43803
Ion Ratio Lower Upper
112 100
64 56.0 43.0 64.4
63 38.4 31.4 47.2

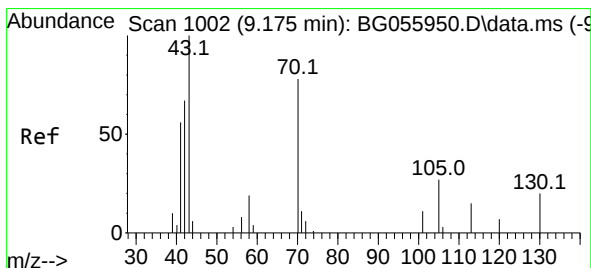
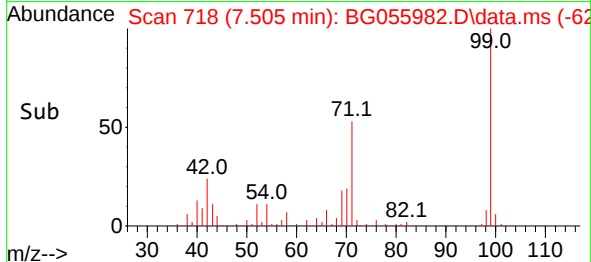
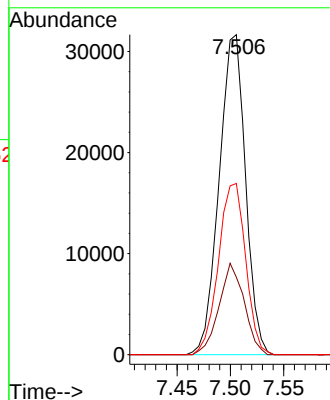
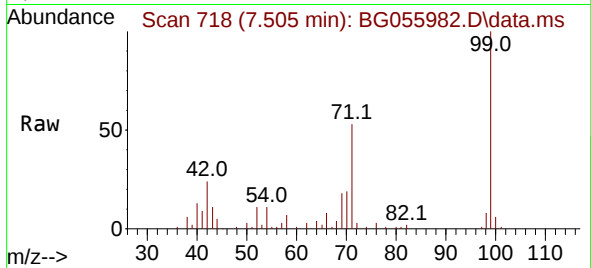




#7
Phenol-d6
Concen: 99.774 ng
RT: 7.505 min Scan# 716
Delta R.T. 0.010 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

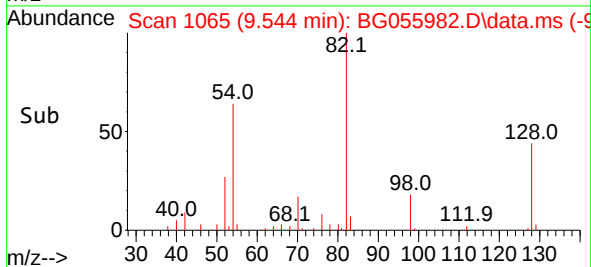
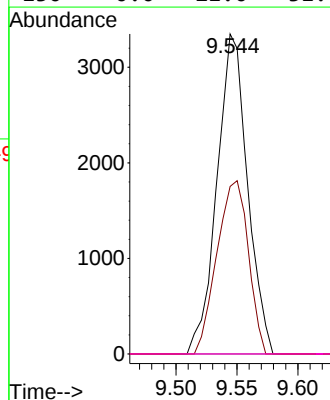
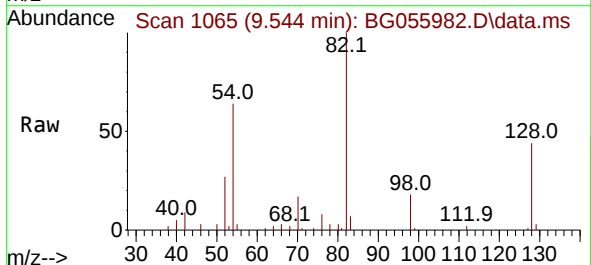
Instrument :
BNA_G
ClientSampleId :
RB-16-(2.5-4.5)

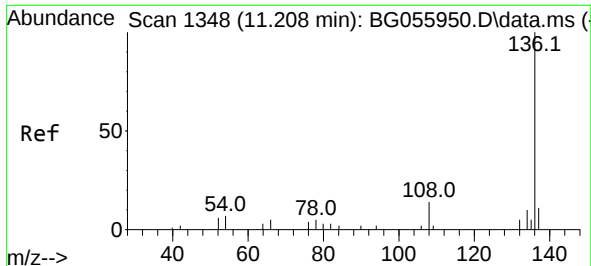
Tgt Ion: 99 Resp: 54450
Ion Ratio Lower Upper
99 100
42 24.2 24.3 36.5#
71 53.5 45.6 68.4



#19
n-Nitroso-di-n-propylamine
Concen: 14.914 ng
RT: 9.544 min Scan# 1065
Delta R.T. 0.369 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion: 70 Resp: 5834
Ion Ratio Lower Upper
70 100
42 52.3 69.0 103.4#
101 0.0 11.8 17.8#
130 0.0 21.0 31.4#

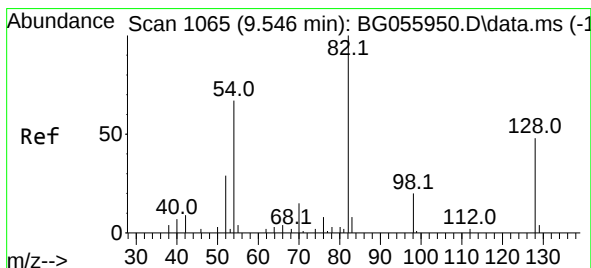
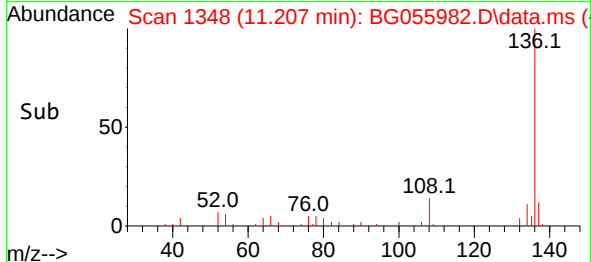
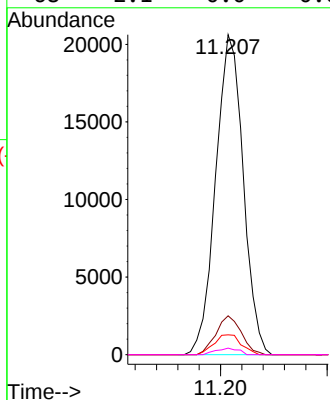
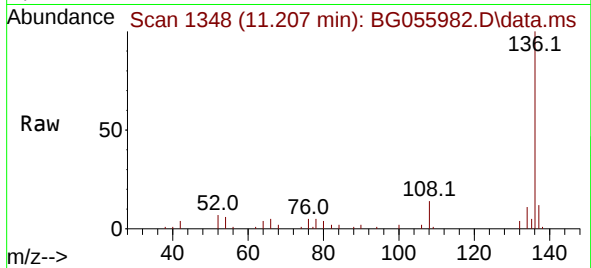




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.207 min Scan# 11
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

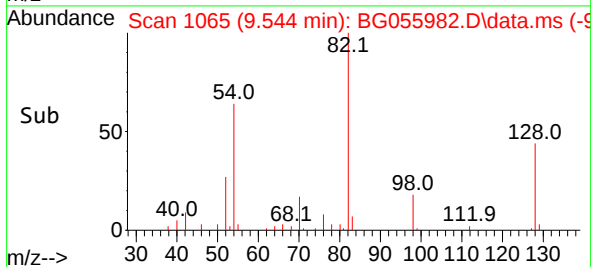
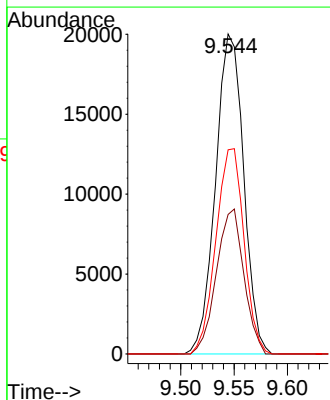
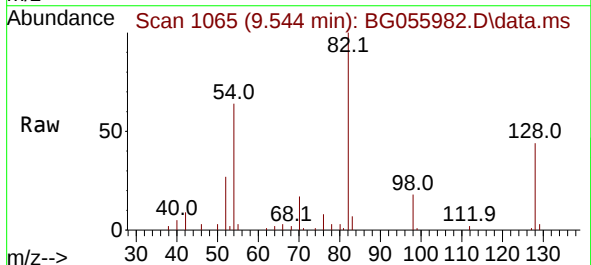
Instrument :
BNA_G
ClientSampleId :
RB-16-(2.5-4.5)

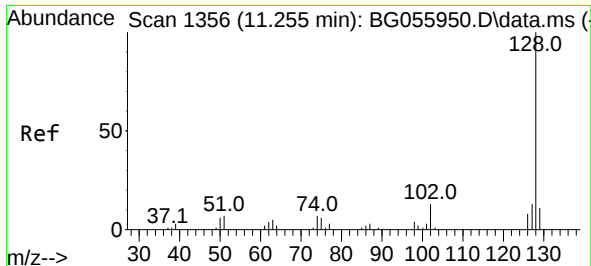
Tgt Ion:	136	Resp:	36911
Ion Ratio	Lower	Upper	
136	100		
137	12.1	9.2	13.8
54	6.2	5.6	8.4
68	2.1	0.0	0.0



#23
Nitrobenzene-d5
Concen: 69.500 ng
RT: 9.544 min Scan# 1065
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:	82	Resp:	36709
Ion Ratio	Lower	Upper	
82	100		
128	43.6	38.4	57.6
54	63.8	53.3	79.9

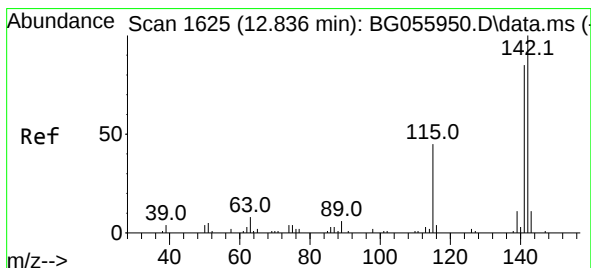
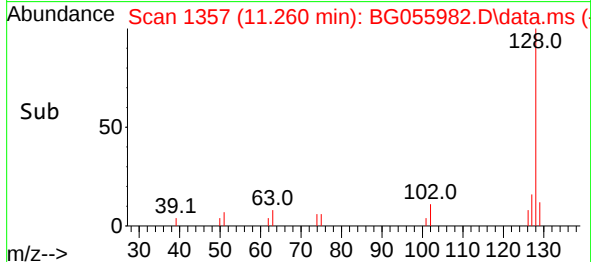
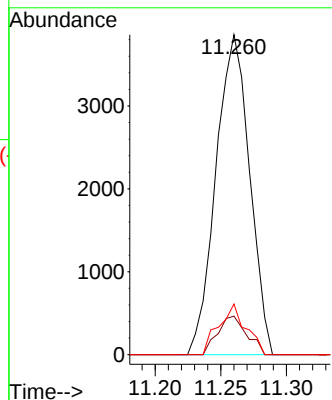
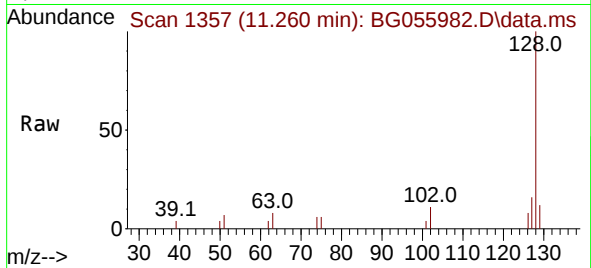




#31
Naphthalene
Concen: 3.536 ng
RT: 11.260 min Scan# 11
Delta R.T. 0.005 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

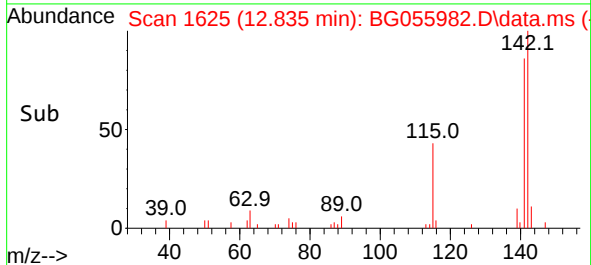
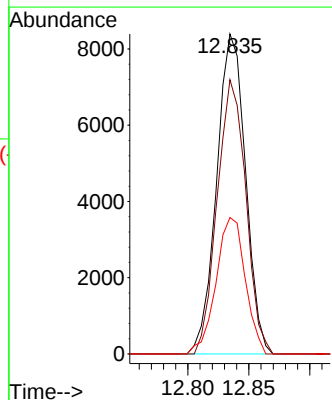
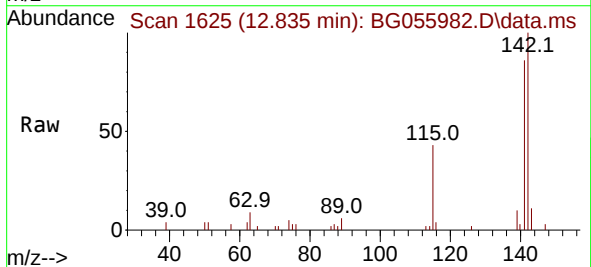
Instrument :
BNA_G
ClientSampleId :
RB-16-(2.5-4.5)

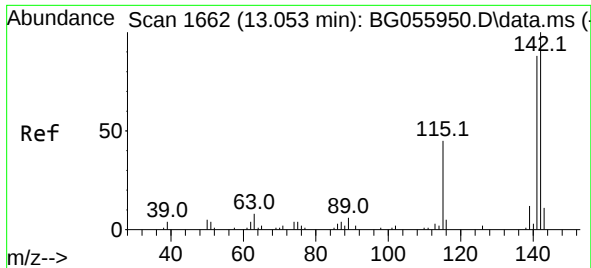
Tgt Ion:128 Resp: 6886
Ion Ratio Lower Upper
128 100
129 12.0 8.7 13.1
127 15.8 10.3 15.5#



#37
2-Methylnaphthalene
Concen: 8.039 ng
RT: 12.835 min Scan# 1625
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:142 Resp: 13832
Ion Ratio Lower Upper
142 100
141 85.7 67.8 101.6
115 42.6 35.7 53.5

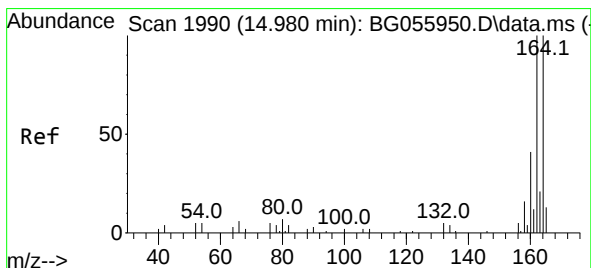
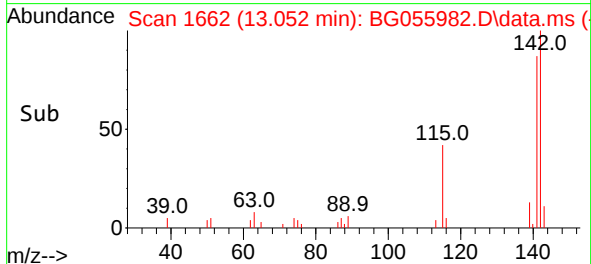
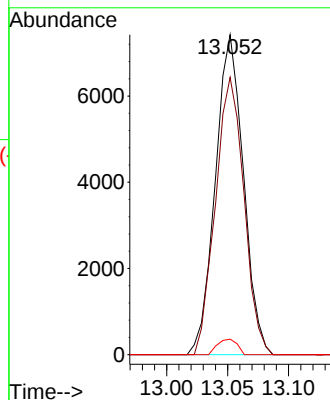
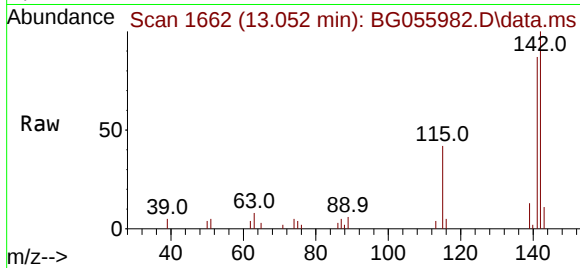




#38
1-Methylnaphthalene
Concen: 7.107 ng
RT: 13.052 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

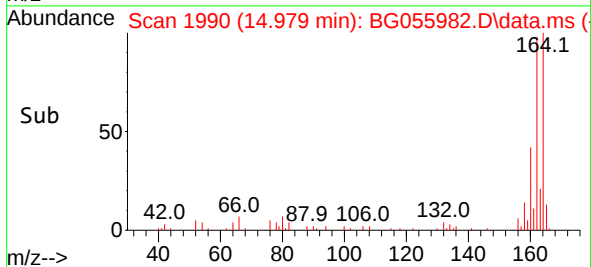
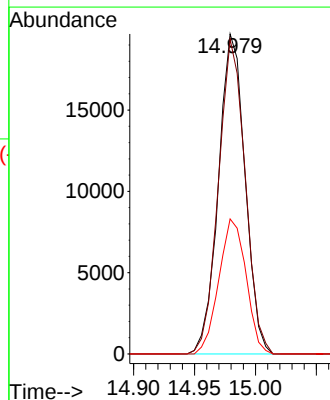
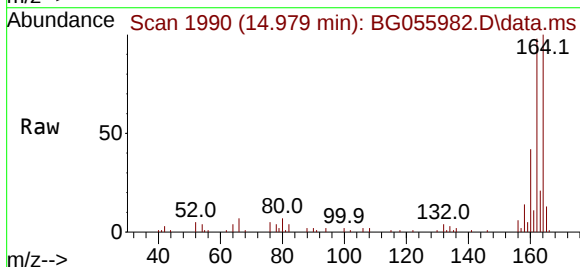
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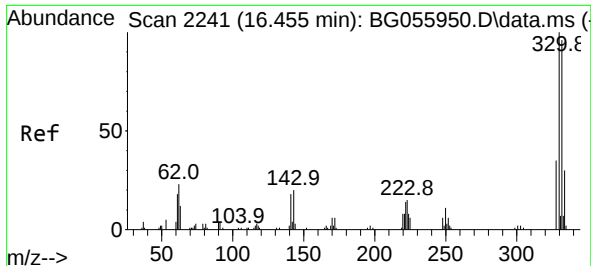
Tgt Ion:142 Resp: 11913
Ion Ratio Lower Upper
142 100
141 86.7 70.2 105.2
116 4.9 3.8 5.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.979 min Scan# 1990
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:164 Resp: 29872
Ion Ratio Lower Upper
164 100
162 98.4 79.8 119.8
160 42.2 33.0 49.4

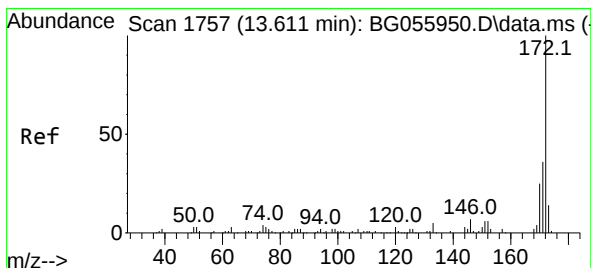
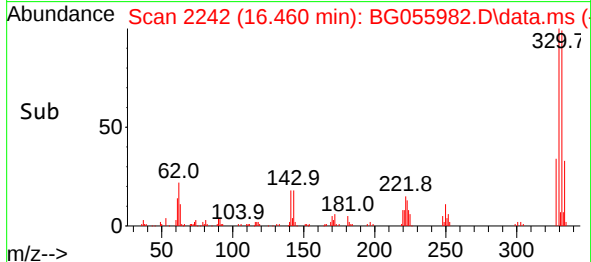
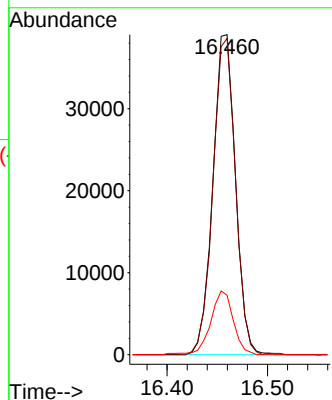
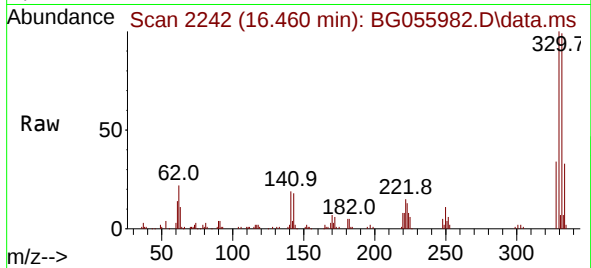




#42
2,4,6-Tribromophenol
Concen: 84.463 ng
RT: 16.460 min Scan# 21
Delta R.T. 0.005 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

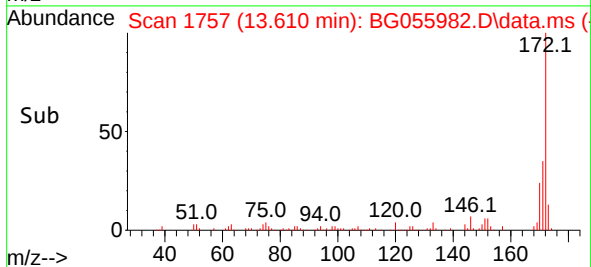
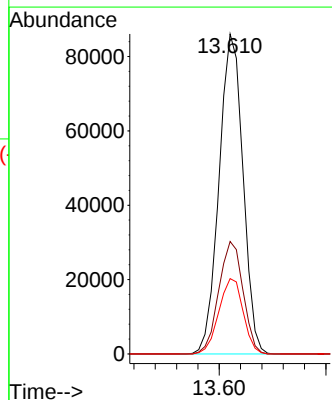
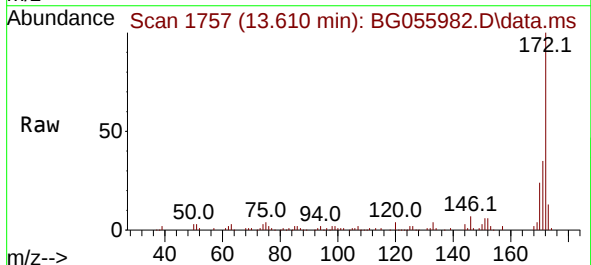
Instrument :
BNA_G
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RB-16-(2.5-4.5)

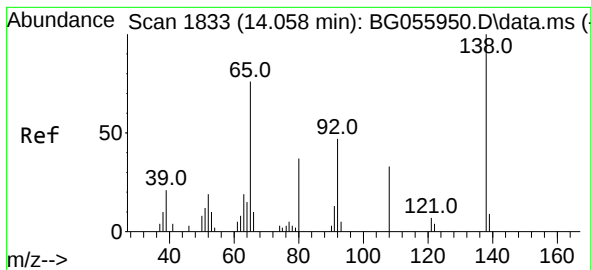
Tgt Ion:330 Resp: 60839
Ion Ratio Lower Upper
330 100
332 98.2 76.6 114.8
141 20.0 15.0 22.4



#45
2-Fluorobiphenyl
Concen: 62.780 ng
RT: 13.610 min Scan# 1757
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:172 Resp: 133718
Ion Ratio Lower Upper
172 100
171 35.1 28.6 42.8
170 23.6 19.9 29.9





#48

2-Nitroaniline

Concen: 2.992 ng

RT: 14.309 min Scan# 11

Delta R.T. 0.251 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

Instrument :

BNA_G

ClientSampleId :

RB-16-(2.5-4.5)

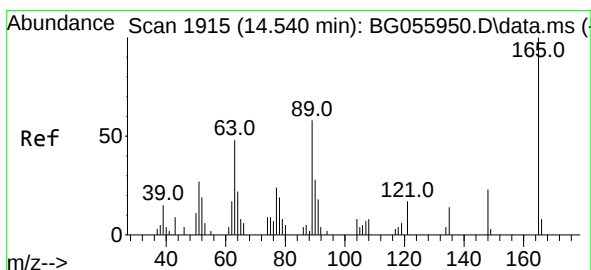
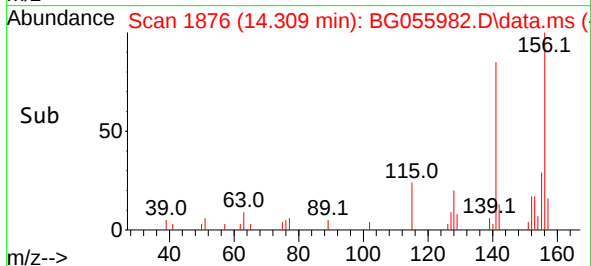
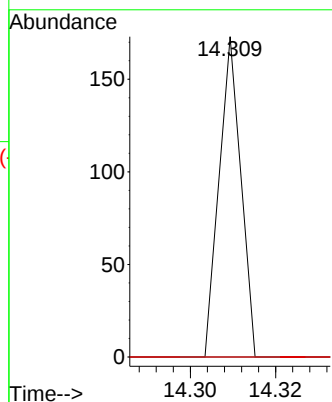
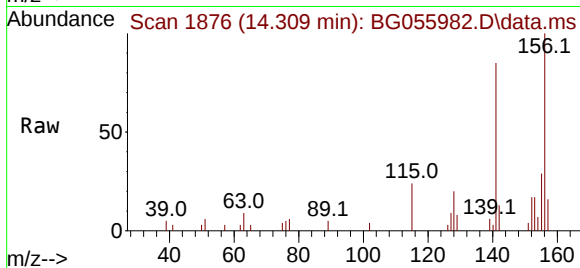
Tgt Ion: 65 Resp: 61

Ion Ratio Lower Upper

65 100

92 0.0 49.7 74.5#

138 0.0 105.0 157.6#



#51

2,6-Dinitrotoluene

Concen: 2.084 ng

RT: 14.944 min Scan# 1984

Delta R.T. 0.404 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

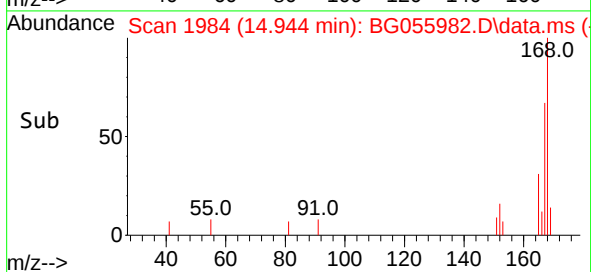
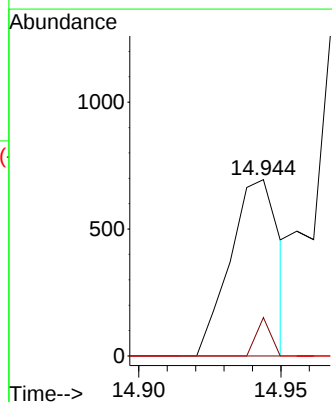
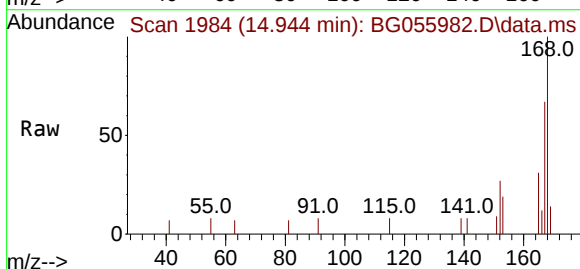
Tgt Ion:165 Resp: 833

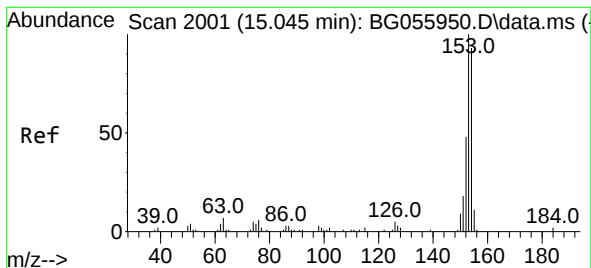
Ion Ratio Lower Upper

165 100

63 21.7 38.3 57.5#

89 0.0 46.3 69.5#





#52

Acenaphthene

Concen: 8.472 ng

RT: 15.044 min Scan# 2001

Delta R.T. -0.001 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

Instrument :

BNA_G

ClientSampleId :

RB-16-(2.5-4.5)

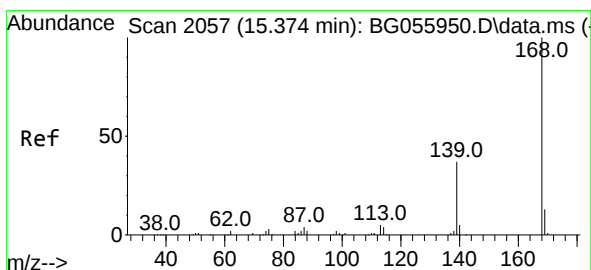
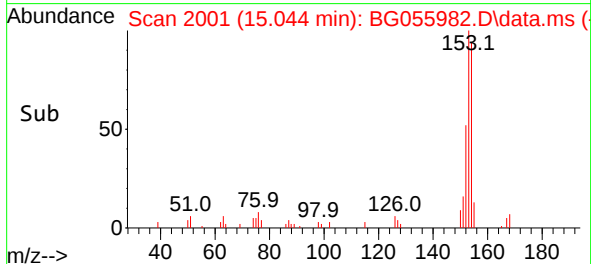
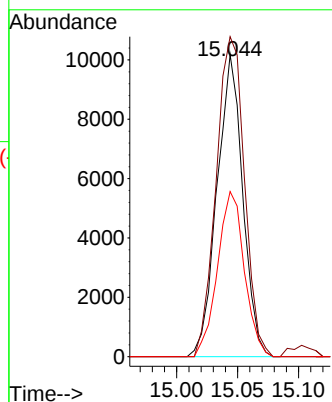
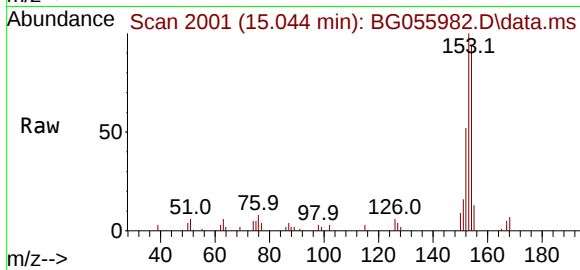
Tgt Ion:154 Resp: 14936

Ion Ratio Lower Upper

154 100

153 105.9 86.2 129.2

152 54.6 41.4 62.0



#55

Dibenzofuran

Concen: 2.373 ng

RT: 15.373 min Scan# 2057

Delta R.T. -0.001 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

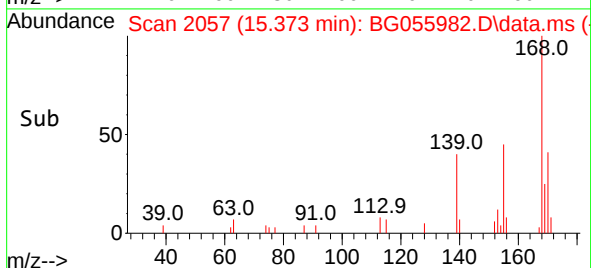
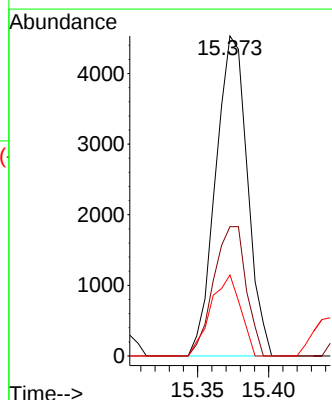
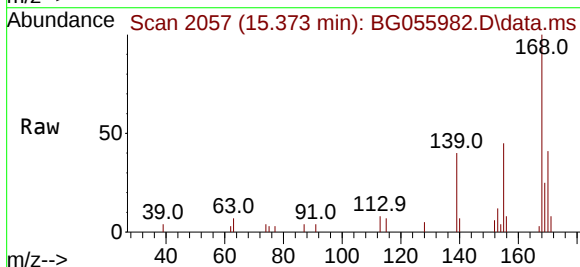
Tgt Ion:168 Resp: 7036

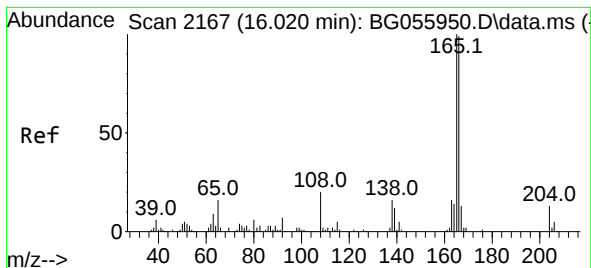
Ion Ratio Lower Upper

168 100

139 40.4 29.8 44.8

169 25.3 10.6 16.0#





#58

Fluorene

Concen: 6.363 ng

RT: 16.019 min Scan# 21

Delta R.T. -0.001 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

Instrument :

BNA_G

ClientSampleId :

RB-16-(2.5-4.5)

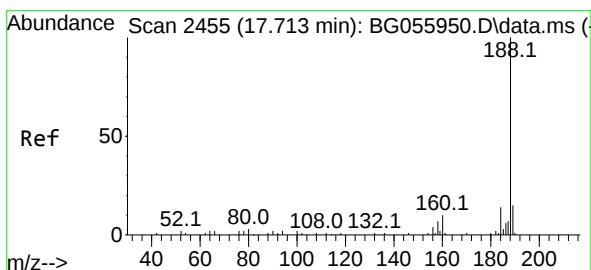
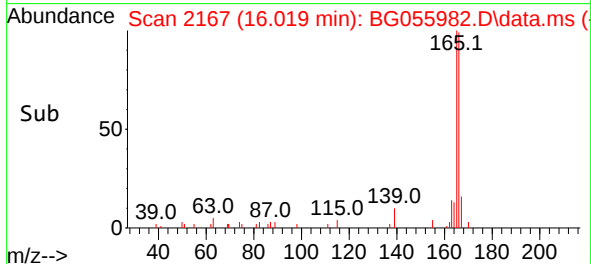
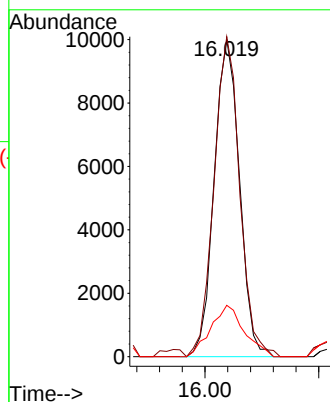
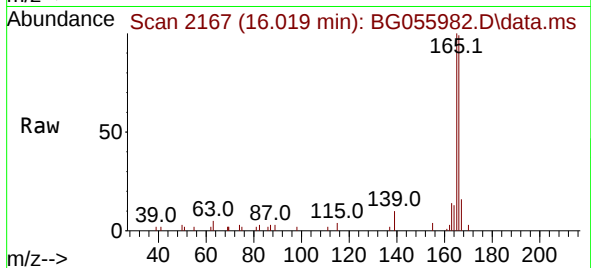
Tgt Ion:166 Resp: 15420

Ion Ratio Lower Upper

166 100

165 100.9 81.1 121.7

167 16.2 10.5 15.7#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.717 min Scan# 2456

Delta R.T. 0.005 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

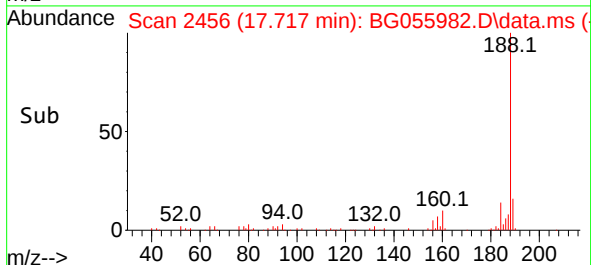
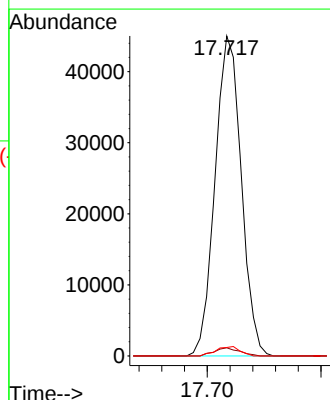
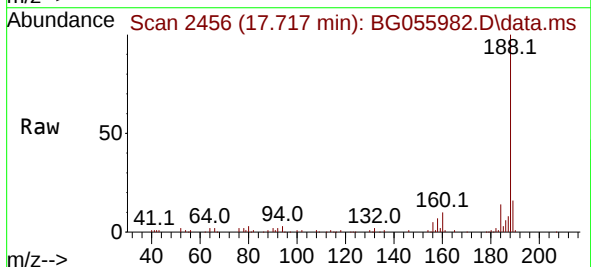
Tgt Ion:188 Resp: 72055

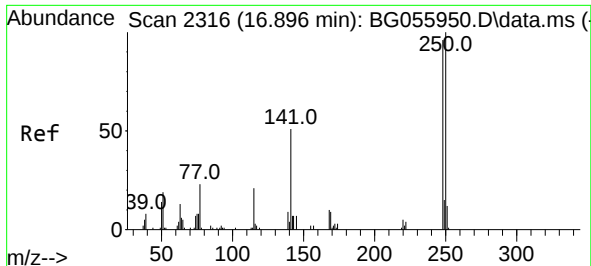
Ion Ratio Lower Upper

188 100

94 2.6 1.8 2.8

80 2.6 2.4 3.6





#67

4-Bromophenyl-phenylether

Concen: 3.280 ng

RT: 16.454 min Scan# 21

Delta R.T. -0.442 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

Instrument :

BNA_G

ClientSampleId :

RB-16-(2.5-4.5)

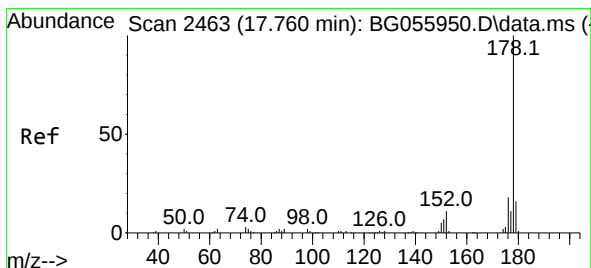
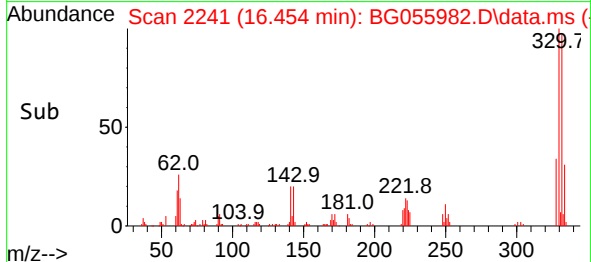
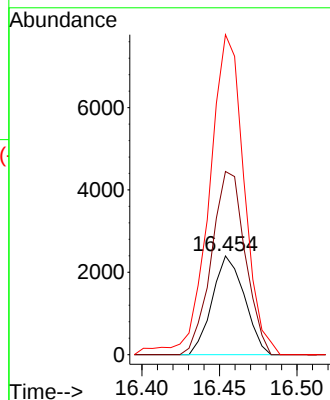
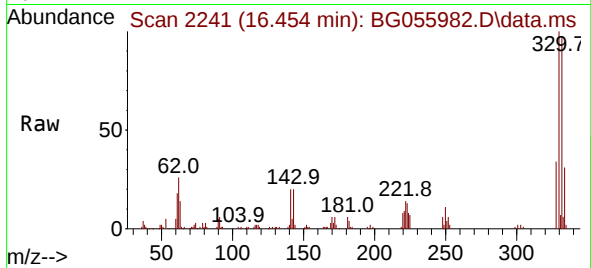
Tgt Ion:248 Resp: 3463

Ion Ratio Lower Upper

248 100

250 185.5 83.0 124.6#

141 323.9 42.6 64.0#



#71

Phenanthrene

Concen: 73.529 ng

RT: 17.764 min Scan# 2464

Delta R.T. 0.005 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

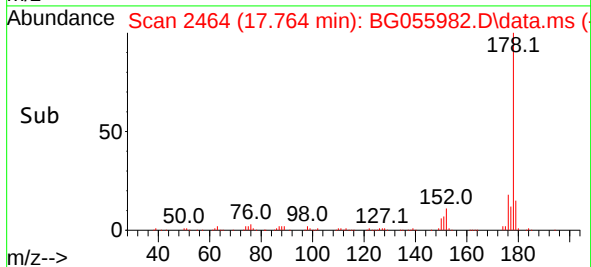
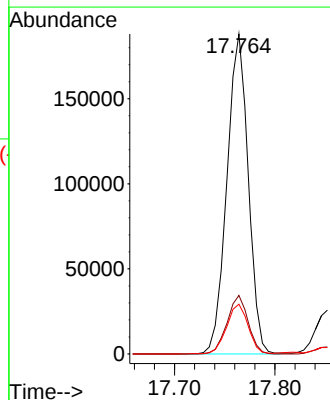
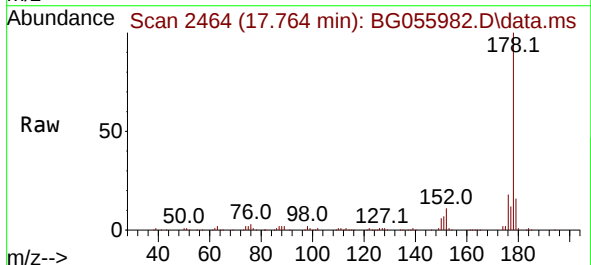
Tgt Ion:178 Resp: 277648

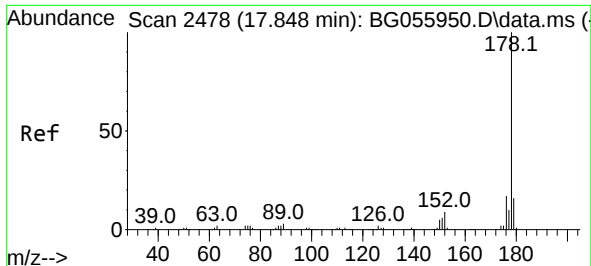
Ion Ratio Lower Upper

178 100

176 18.3 14.4 21.6

179 15.5 12.7 19.1

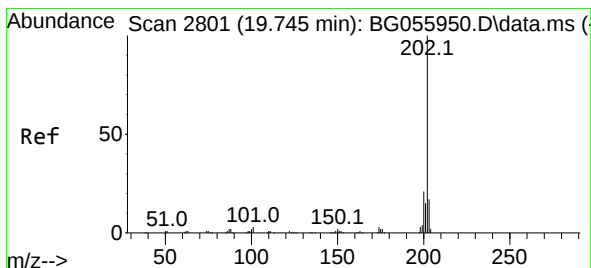
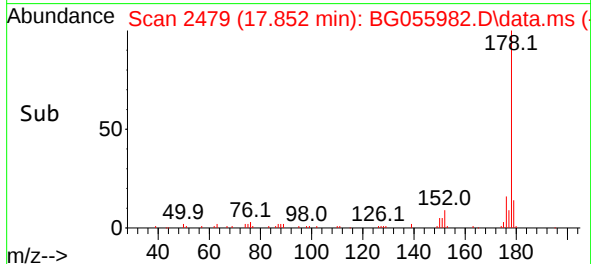
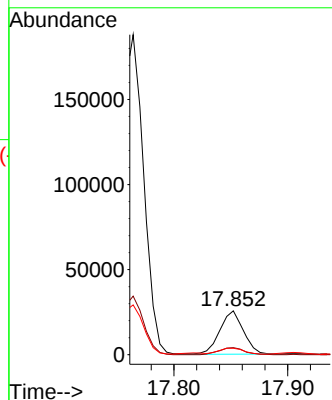
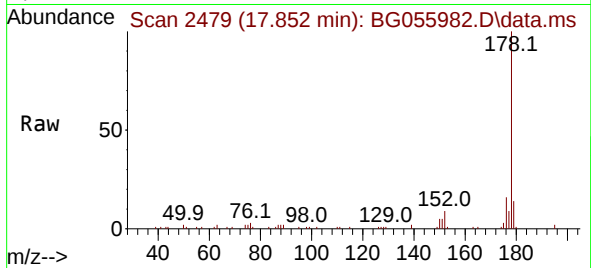




#72
 Anthracene
 Concen: 9.815 ng
 RT: 17.852 min Scan# 2478
 Delta R.T. 0.005 min
 Lab File: BG055982.D
 Acq: 15 Dec 2022 18:29

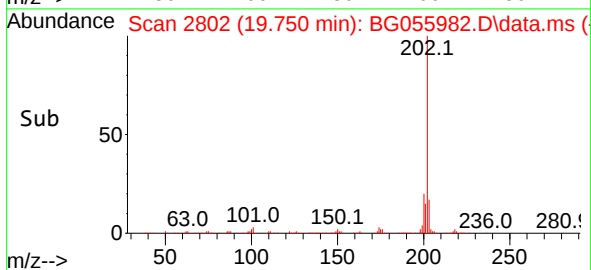
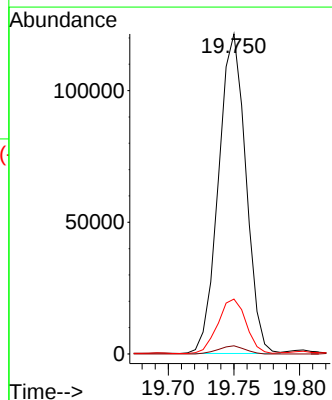
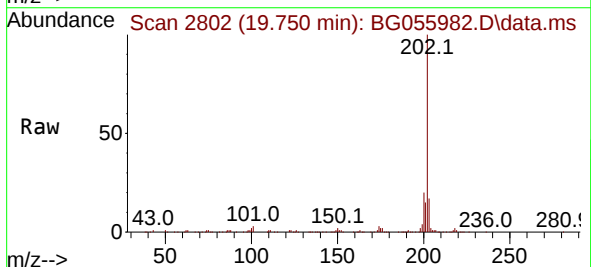
Instrument :
 BNA_G
 ClientSampleId :
 RB-16-(2.5-4.5)

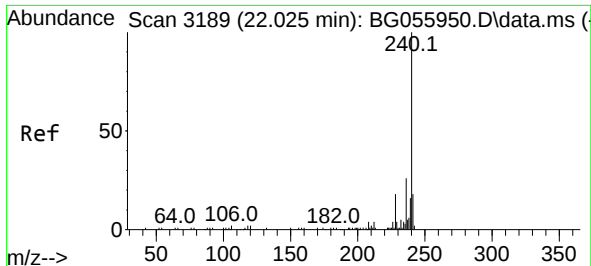
Tgt Ion:178 Resp: 36665
 Ion Ratio Lower Upper
 178 100
 176 16.2 13.9 20.9
 179 14.5 12.7 19.1



#75
 Fluoranthene
 Concen: 33.153 ng
 RT: 19.750 min Scan# 2802
 Delta R.T. 0.005 min
 Lab File: BG055982.D
 Acq: 15 Dec 2022 18:29

Tgt Ion:202 Resp: 175302
 Ion Ratio Lower Upper
 202 100
 101 2.6 0.0 22.6
 203 17.2 0.0 37.1

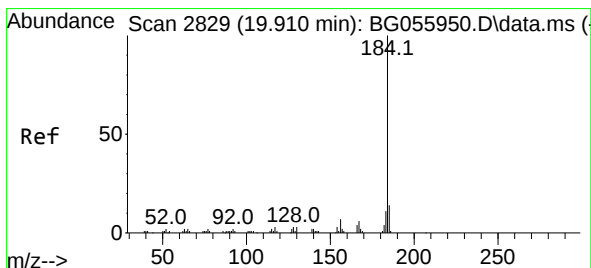
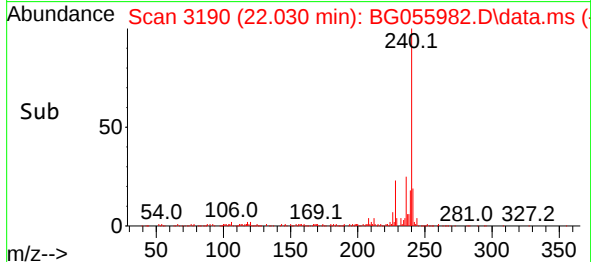
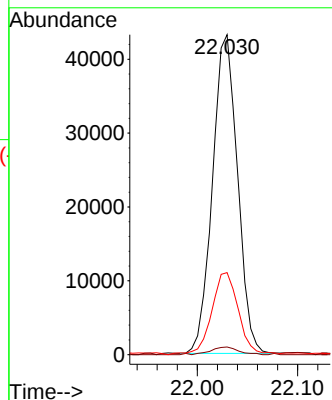
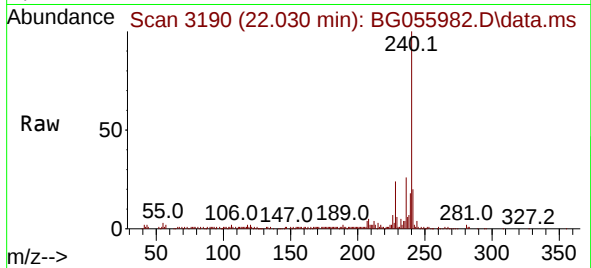




#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.030 min Scan# 3189
Delta R.T. 0.005 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

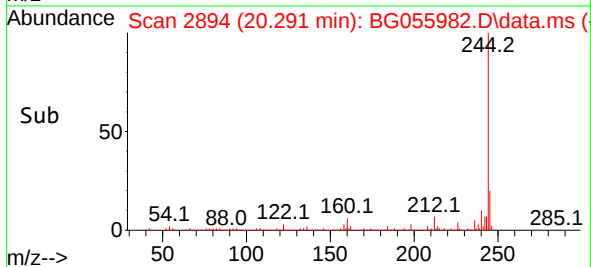
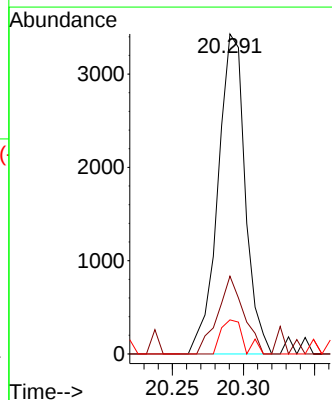
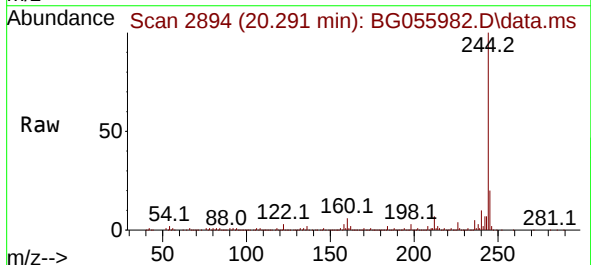
Instrument :
BNA_G
ClientSampleId :
RB-16-(2.5-4.5)

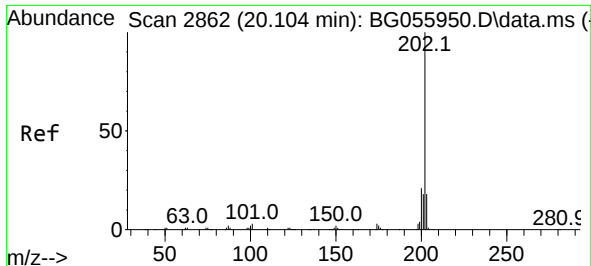
Tgt Ion:240 Resp: 74671
Ion Ratio Lower Upper
240 100
120 2.4 1.7 2.5
236 25.7 21.1 31.7



#77
Benzidine
Concen: 3.483 ng
RT: 20.291 min Scan# 2894
Delta R.T. 0.381 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:184 Resp: 4567
Ion Ratio Lower Upper
184 100
185 24.3 10.9 16.3#
183 10.6 9.2 13.8

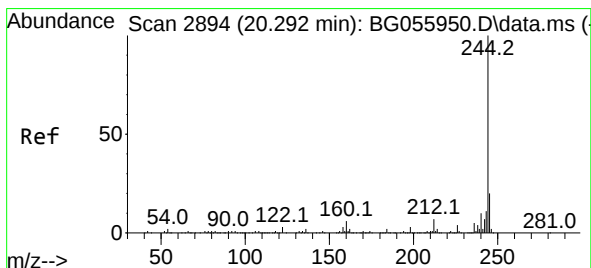
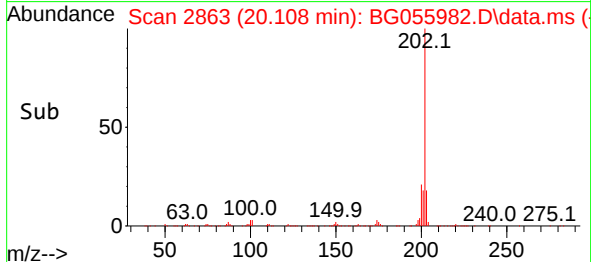
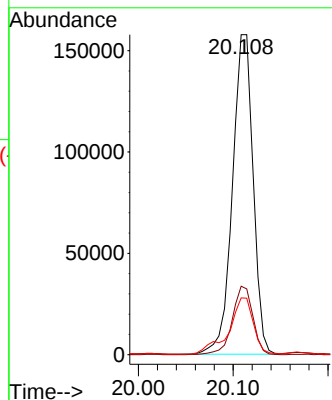
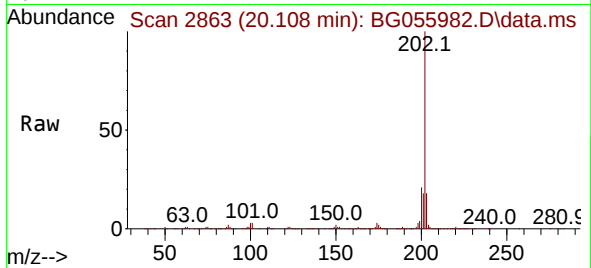




#78
 Pyrene
 Concen: 52.934 ng
 RT: 20.108 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: BG055982.D
 Acq: 15 Dec 2022 18:29

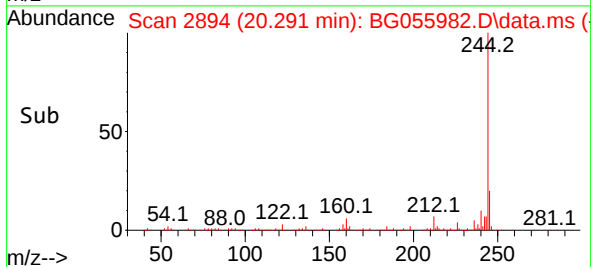
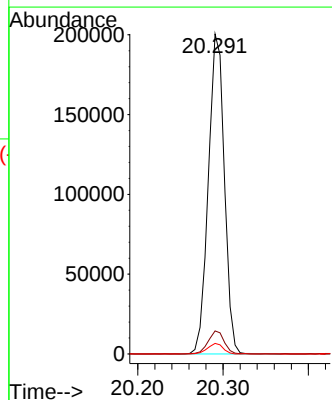
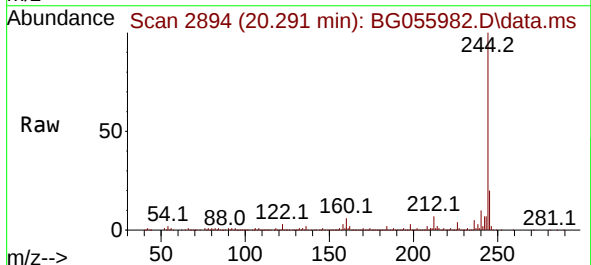
Instrument :
 BNA_G
 ClientSampleId :
 RB-16-(2.5-4.5)

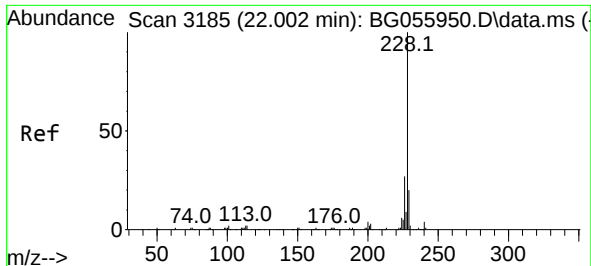
Tgt Ion:202 Resp: 239177
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.7 25.1
 203 17.8 14.6 21.8



#79
 Terphenyl-d14
 Concen: 61.835 ng
 RT: 20.291 min Scan# 2894
 Delta R.T. -0.001 min
 Lab File: BG055982.D
 Acq: 15 Dec 2022 18:29

Tgt Ion:244 Resp: 261249
 Ion Ratio Lower Upper
 244 100
 212 7.2 5.8 8.6
 122 3.3 2.5 3.7

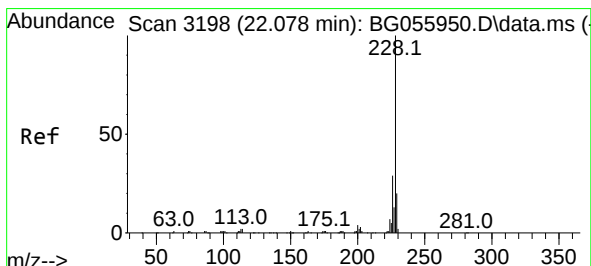
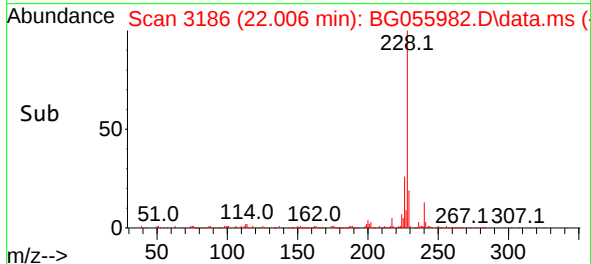
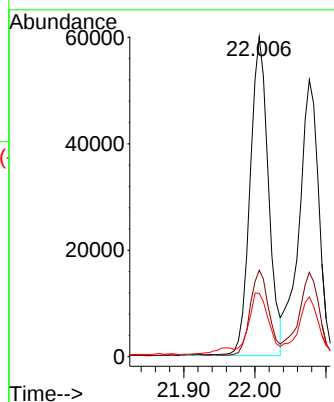
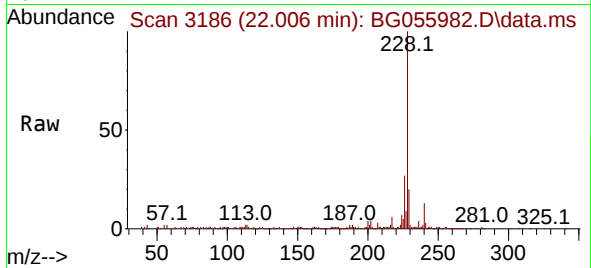




#81
Benzo(a)anthracene
Concen: 20.479 ng
RT: 22.006 min Scan# 3185
Delta R.T. 0.005 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

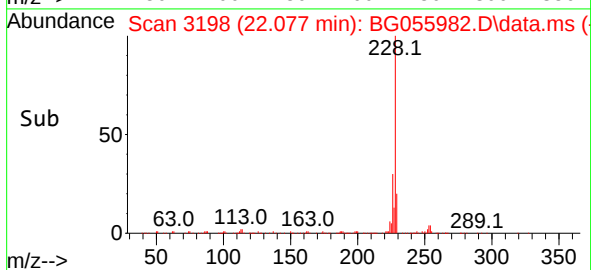
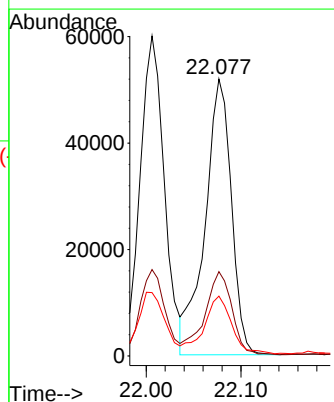
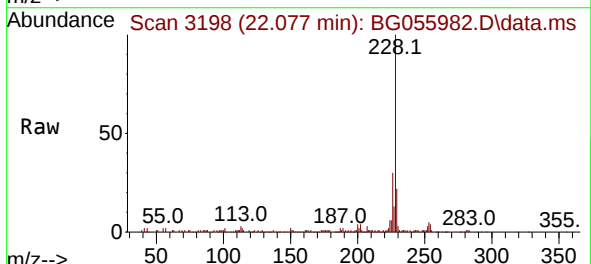
Instrument :
BNA_G
ClientSampleId :
RB-16-(2.5-4.5)

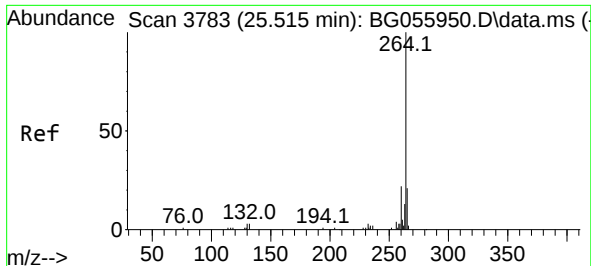
Tgt Ion:228 Resp: 107605
Ion Ratio Lower Upper
228 100
226 27.0 21.8 32.6
229 19.8 15.9 23.9



#83
Chrysene
Concen: 20.308 ng
RT: 22.077 min Scan# 3198
Delta R.T. -0.001 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:228 Resp: 100007
Ion Ratio Lower Upper
228 100
226 30.4 23.1 34.7
229 21.6 15.7 23.5

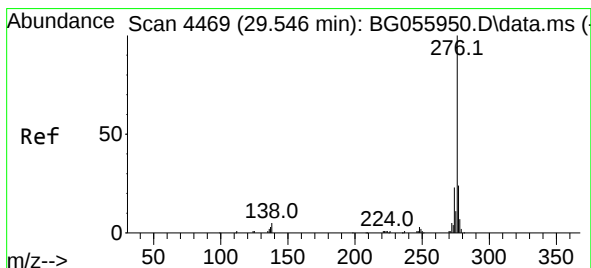
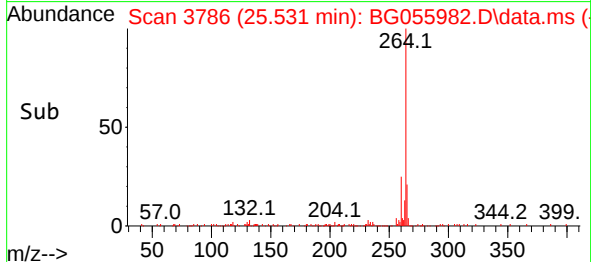
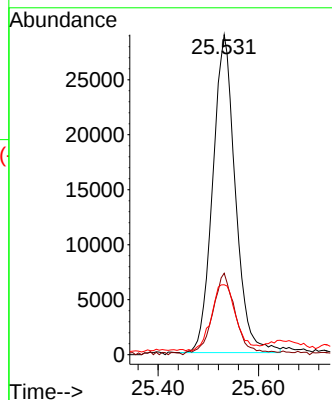
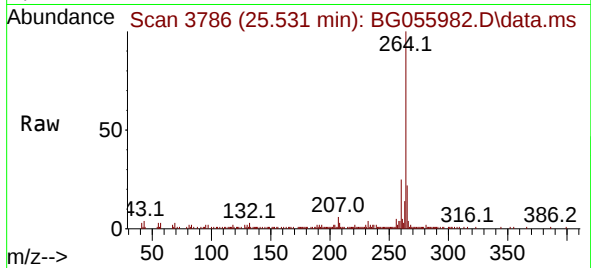




#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.531 min Scan# 31
 Delta R.T. 0.016 min
 Lab File: BG055982.D
 Acq: 15 Dec 2022 18:29

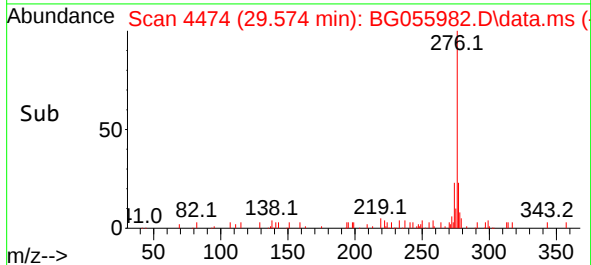
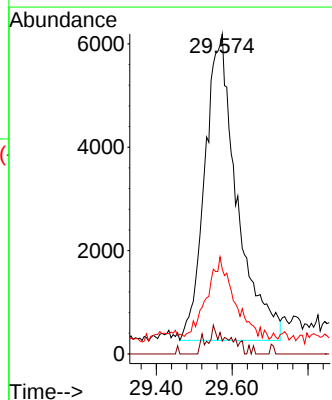
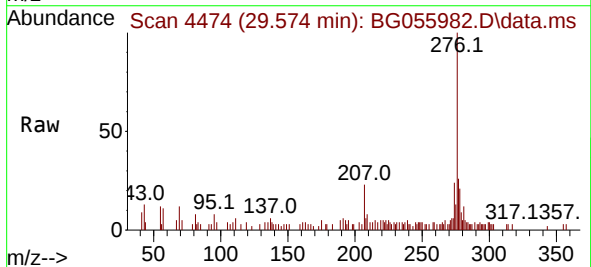
Instrument :
 BNA_G
 ClientSampleId :
 RB-16-(2.5-4.5)

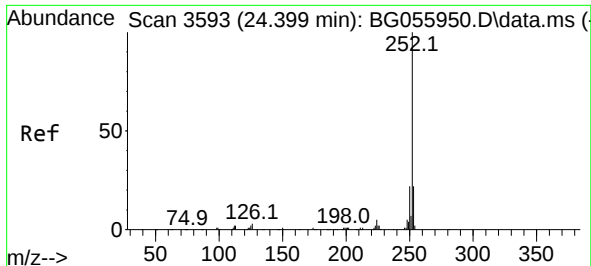
Tgt Ion:264 Resp: 90378
 Ion Ratio Lower Upper
 264 100
 260 25.4 17.8 26.8
 265 21.8 16.6 25.0



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 4.801 ng
 RT: 29.574 min Scan# 4474
 Delta R.T. 0.028 min
 Lab File: BG055982.D
 Acq: 15 Dec 2022 18:29

Tgt Ion:276 Resp: 34889
 Ion Ratio Lower Upper
 276 100
 138 0.0 3.0 4.4#
 277 20.6 20.4 30.6

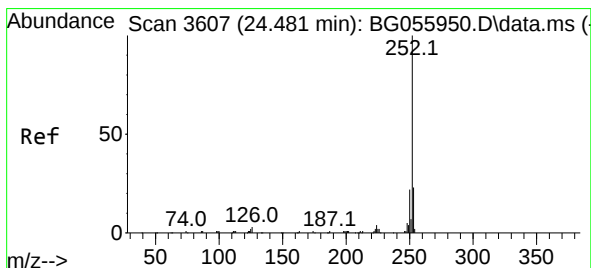
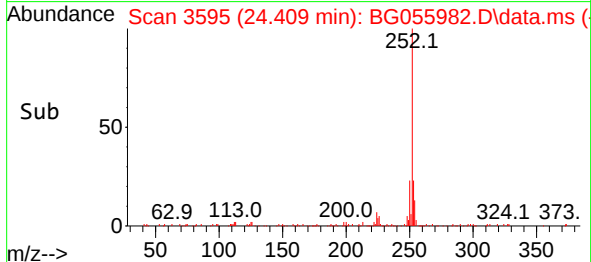
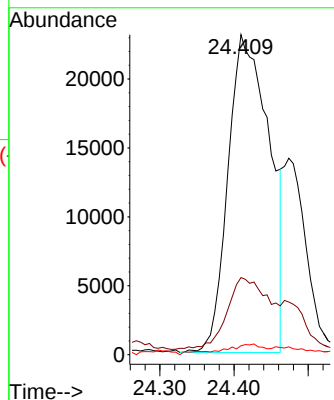
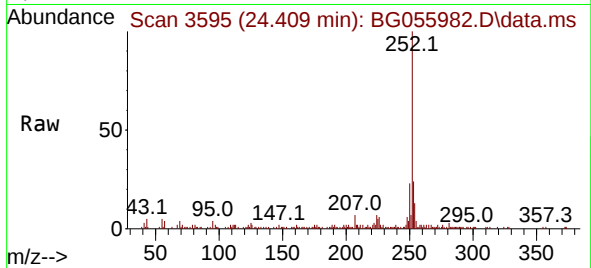




#88
Benzo(b)fluoranthene
Concen: 15.239 ng
RT: 24.409 min Scan# 3595
Delta R.T. 0.010 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

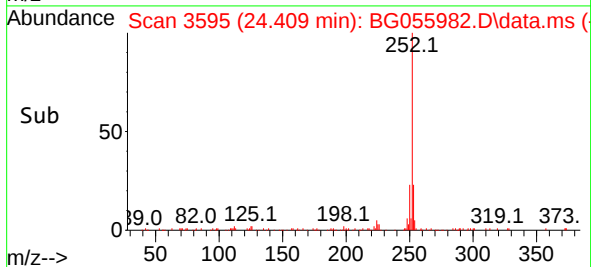
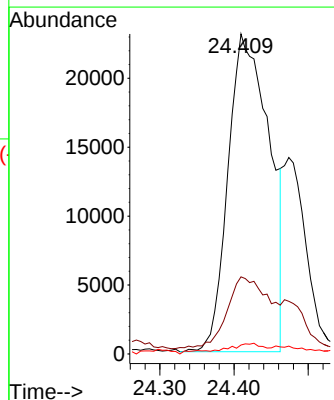
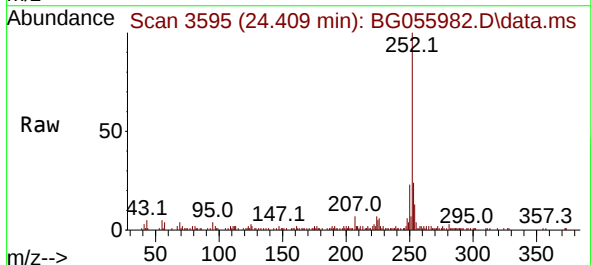
Instrument :
BNA_G
ClientSampleId :
RB-16-(2.5-4.5)

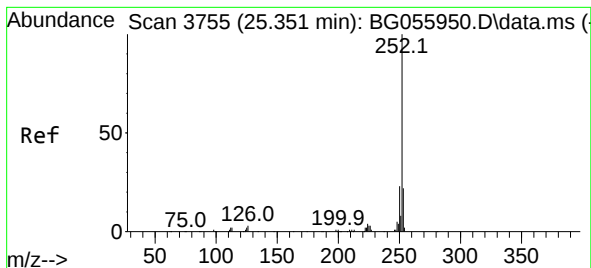
Tgt Ion:252 Resp: 89135
Ion Ratio Lower Upper
252 100
253 24.1 17.4 26.0
125 2.8 1.8 2.8#



#89
Benzo(k)fluoranthene
Concen: 15.274 ng
RT: 24.409 min Scan# 3595
Delta R.T. -0.072 min
Lab File: BG055982.D
Acq: 15 Dec 2022 18:29

Tgt Ion:252 Resp: 89135
Ion Ratio Lower Upper
252 100
253 24.1 18.2 27.2
125 2.8 2.0 3.0





#90

Benzo(a)pyrene

Concen: 14.122 ng

RT: 25.361 min Scan# 31

Delta R.T. 0.010 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

Instrument :

BNA_G

ClientSampleId :

RB-16-(2.5-4.5)

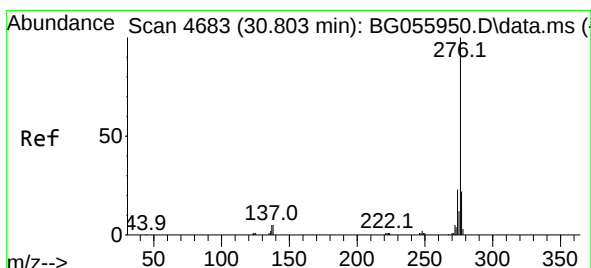
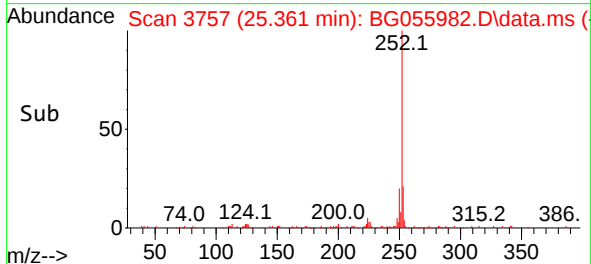
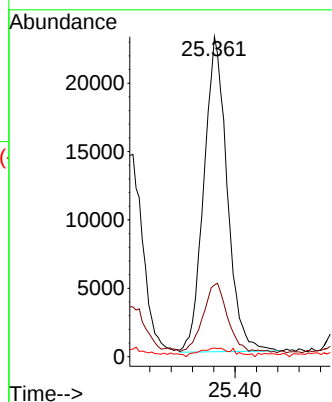
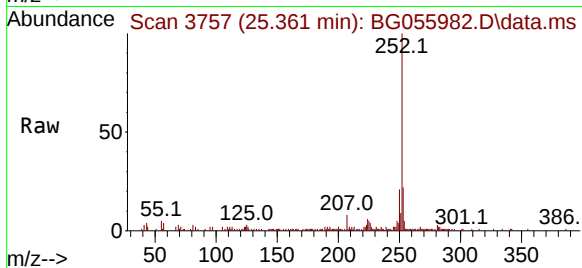
Tgt Ion:252 Resp: 69824

Ion Ratio Lower Upper

252 100

253 22.4 17.7 26.5

125 2.7 1.9 2.9



#92

Benzo(g,h,i)perylene

Concen: 2.786 ng

RT: 30.813 min Scan# 4685

Delta R.T. 0.010 min

Lab File: BG055982.D

Acq: 15 Dec 2022 18:29

Tgt Ion:276 Resp: 16386

Ion Ratio Lower Upper

276 100

277 28.5 17.8 26.6#

138 7.5 3.8 5.6#

