

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052223\
 Data File : BG057504.D
 Acq On : 22 May 2023 22:06
 Operator : CG/JU
 Sample : 02864-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ETGI-289

Quant Time: May 23 04:08:10 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat May 20 04:19:55 2023
 Response via : Initial Calibration

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

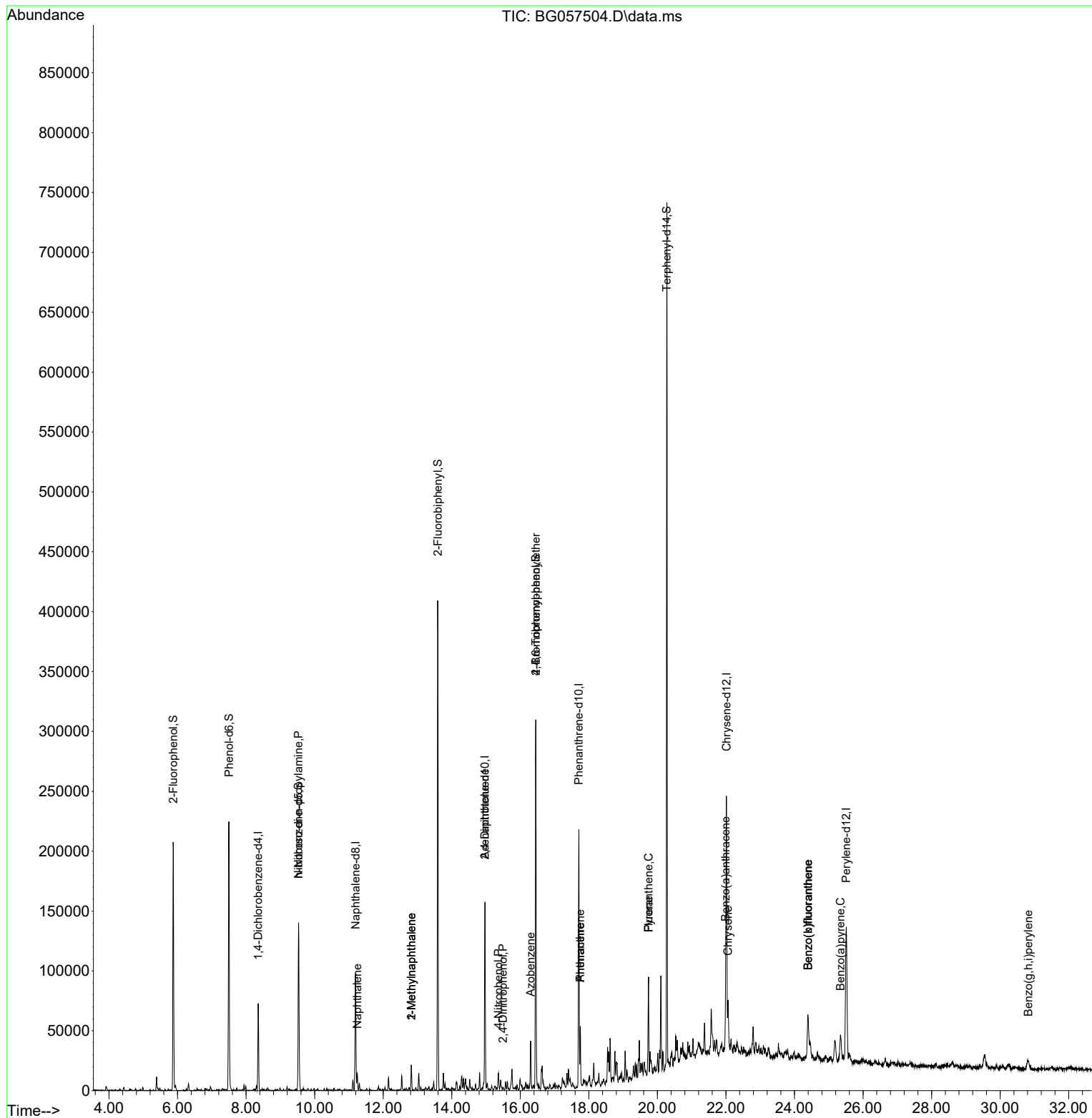
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.350	152	21014	20.000	ng	-0.01
21) Naphthalene-d8	11.194	136	83929	20.000	ng	0.00
39) Acenaphthene-d10	14.965	164	59994	20.000	ng	-0.01
64) Phenanthrene-d10	17.708	188	139893	20.000	ng	0.00
76) Chrysene-d12	22.014	240	128562	20.000	ng	0.00
86) Perylene-d12	25.510	264	138047	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.877	112	94438	76.876	ng	0.00
7) Phenol-d6	7.499	99	138383	74.182	ng	0.00
23) Nitrobenzene-d5	9.531	82	90264	45.139	ng	0.00
42) 2,4,6-Tribromophenol	16.451	330	62380	73.280	ng	0.00
45) 2-Fluorobiphenyl	13.590	172	218258	48.996	ng	-0.01
79) Terphenyl-d14	20.275	244	352241	44.712	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	7.499	77	582	Below Cal	#	45
19) n-Nitroso-di-n-propyla...	9.531	70	12990	9.132	ng	# 81
31) Naphthalene	11.241	128	12046	2.685	ng	97
37) 2-Methylnaphthalene	12.821	142	10531	2.985	ng	99
38) 1-Methylnaphthalene	12.821	142	10531	3.167	ng	99
54) 2,4-Dinitrophenol	15.494	184	55	4.999	ng	# 18
56) 4-Nitrophenol	15.364	139	2836	4.228	ng	# 1
57) 2,4-Dinitrotoluene	14.965	165	8024	5.578	ng	# 20
63) Azobenzene	16.304	77	10613	2.197	ng	# 1
67) 4-Bromophenyl-phenylether	16.451	248	4150	2.430	ng	# 1
71) Phenanthrene	17.749	178	32789	4.574	ng	99
72) Anthracene	17.749	178	32789	4.458	ng	97
75) Fluoranthene	19.741	202	51057	5.727	ng	99
78) Pyrene	19.741	202	51057	5.465	ng	98
81) Benzo(a)anthracene	21.991	228	30117	3.288	ng	# 94
83) Chrysene	22.061	228	38307	4.445	ng	# 94
88) Benzo(b)fluoranthene	24.393	252	42357	4.694	ng	93
89) Benzo(k)fluoranthene	24.393	252	42357	4.619	ng	94
90) Benzo(a)pyrene	25.339	252	27532	3.123	ng	97
92) Benzo(g,h,i)perylene	30.820	276	17568	2.147	ng	98

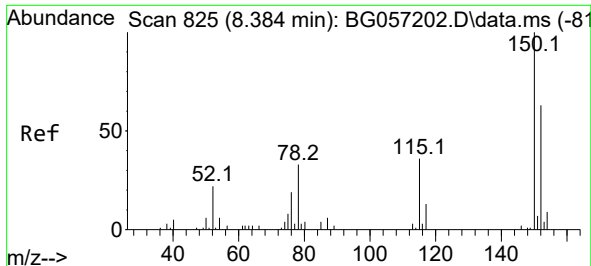
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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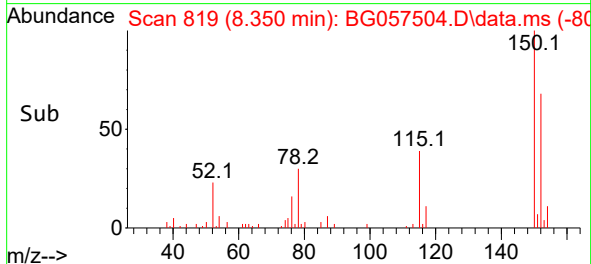
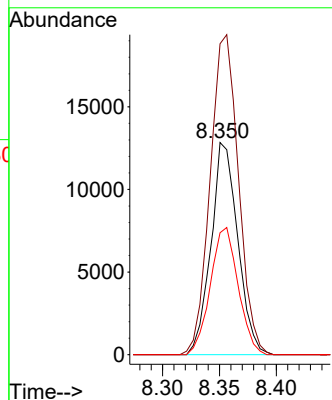
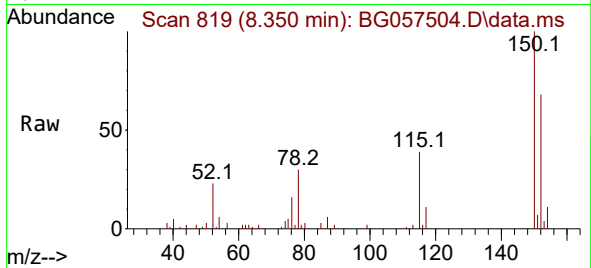




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.350 min Scan# 81
Delta R.T. -0.012 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

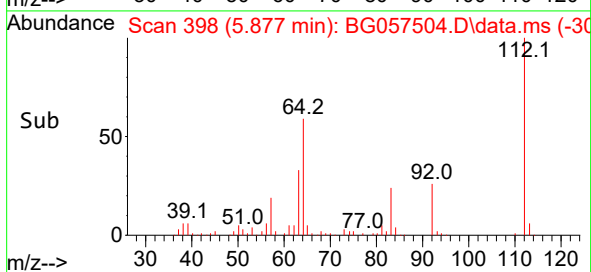
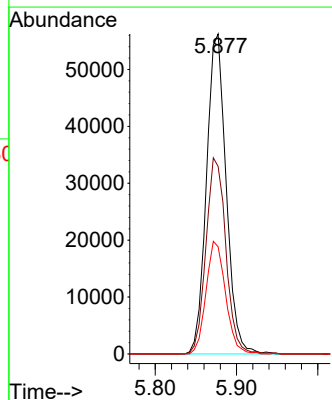
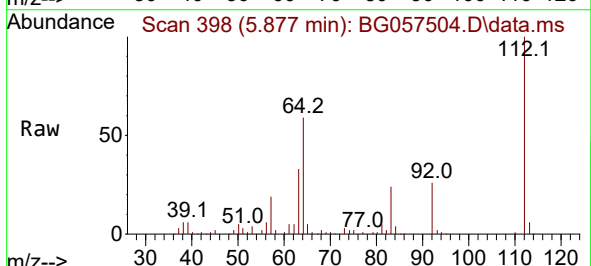
Instrument :
BNA_G
ClientSampleId :
ETGI-289

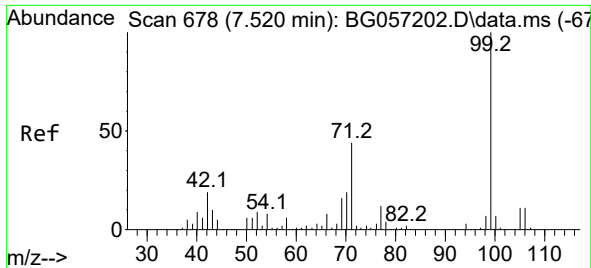
Tgt Ion:152 Resp: 21014
Ion Ratio Lower Upper
152 100
150 146.5 126.2 189.4
115 57.4 45.0 67.4



#5
2-Fluorophenol
Concen: 76.876 ng
RT: 5.877 min Scan# 398
Delta R.T. 0.006 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:112 Resp: 94438
Ion Ratio Lower Upper
112 100
64 58.6 49.4 74.2
63 33.5 31.6 47.4

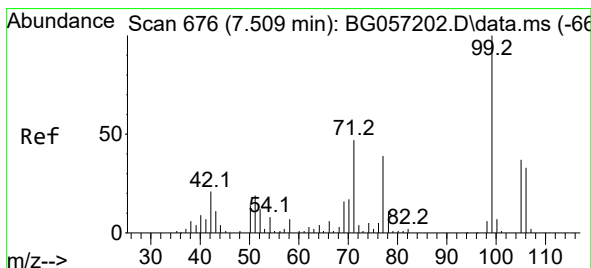
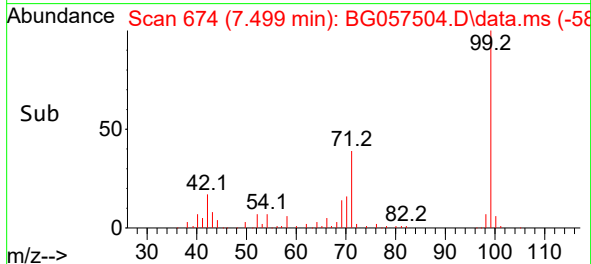
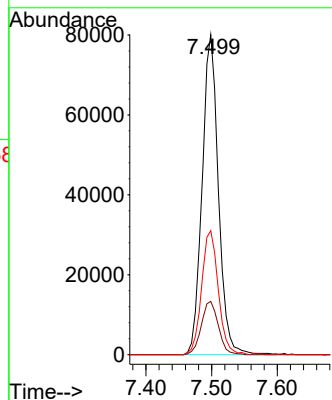
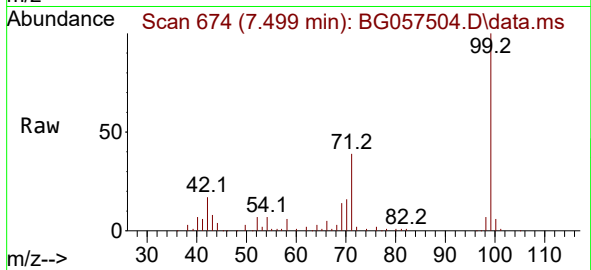




#7
Phenol-d6
Concen: 74.182 ng
RT: 7.499 min Scan# 61
Delta R.T. 0.001 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

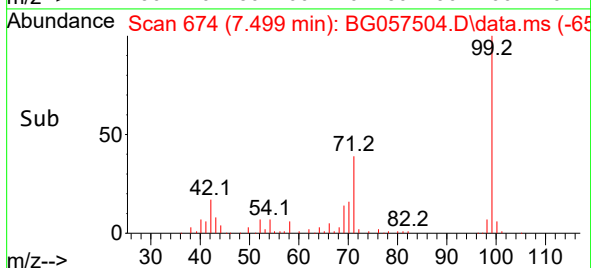
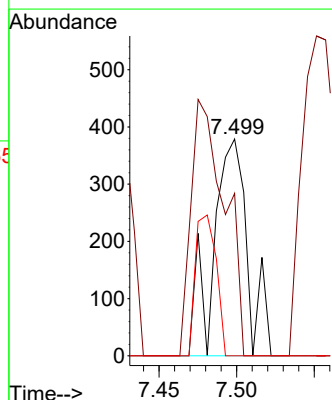
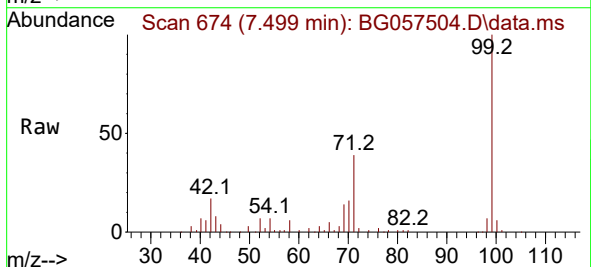
Instrument :
BNA_G
ClientSampleId :
ETGI-289

Tgt Ion: 99 Resp: 138383
Ion Ratio Lower Upper
99 100
42 16.6 15.1 22.7
71 38.8 35.2 52.8



#9
Benzaldehyde
Concen: Below Cal
RT: 7.499 min Scan# 674
Delta R.T. 0.012 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion: 77 Resp: 582
Ion Ratio Lower Upper
77 100
105 74.9 74.6 114.6
106 0.0 66.3 106.3#

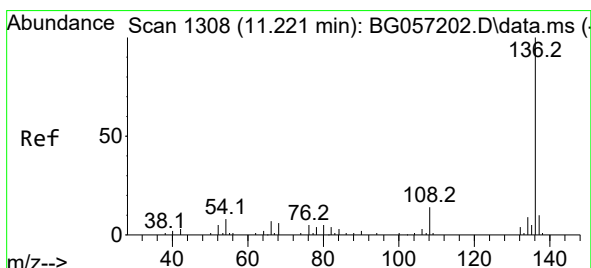
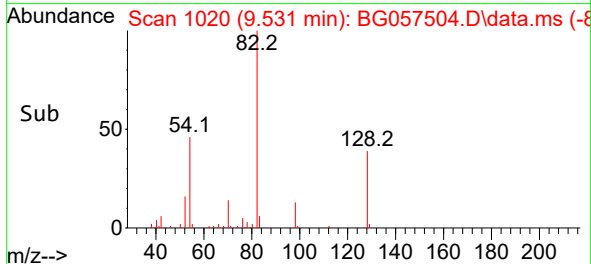
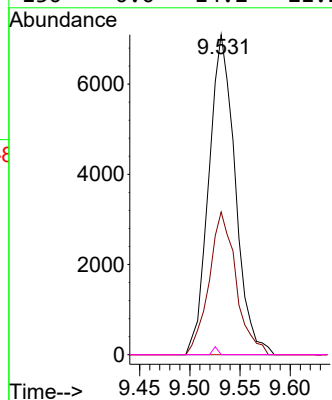
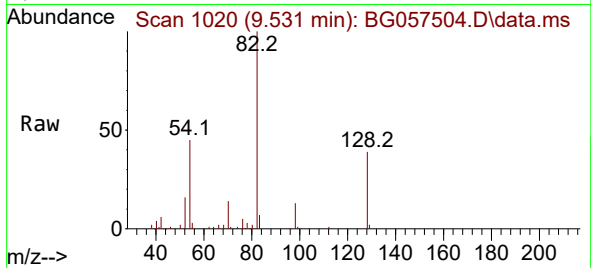




#19
n-Nitroso-di-n-propylamine
Concen: 9.132 ng
RT: 9.531 min Scan# 1020
Delta R.T. 0.371 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

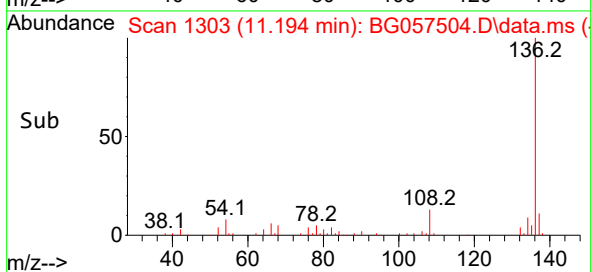
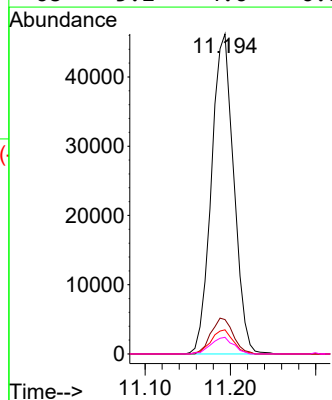
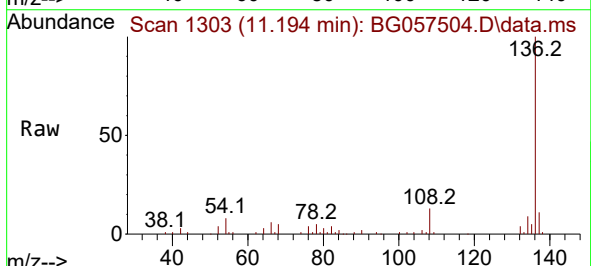
Instrument :
BNA_G
ClientSampleId :
ETGI-289

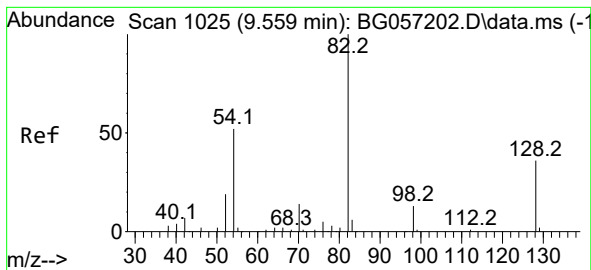
Tgt Ion: 70	Resp: 12990
Ion Ratio	Lower Upper
70 100	
42 44.6	41.8 62.8
101 0.0	6.8 10.2#
130 0.0	14.2 21.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.194 min Scan# 1303
Delta R.T. -0.005 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion: 136	Resp: 83929
Ion Ratio	Lower Upper
136 100	
137 10.7	8.3 12.5
54 7.6	6.7 10.1
68 5.2	4.6 6.8





#23

Nitrobenzene-d5

Concen: 45.139 ng

RT: 9.531 min Scan# 11

Delta R.T. -0.005 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

Instrument :

BNA_G

ClientSampleId :

ETGI-289

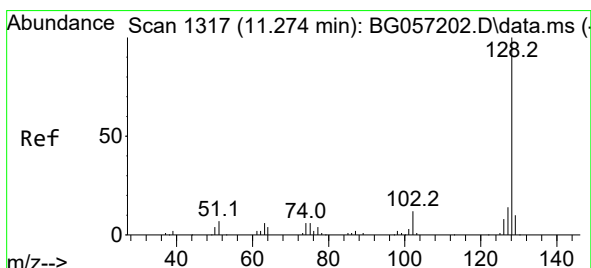
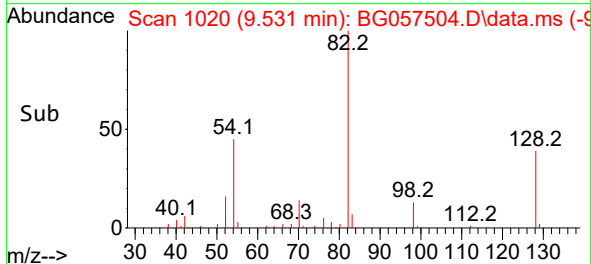
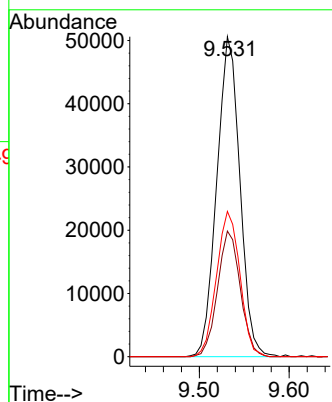
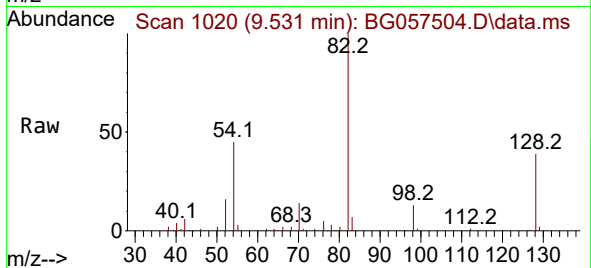
Tgt Ion: 82 Resp: 90264

Ion Ratio Lower Upper

82 100

128 39.3 29.0 43.4

54 45.4 41.4 62.0



#31

Naphthalene

Concen: 2.685 ng

RT: 11.241 min Scan# 1311

Delta R.T. -0.005 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

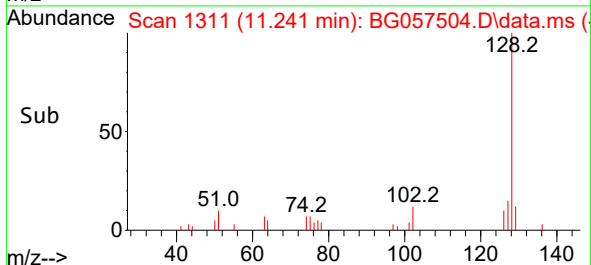
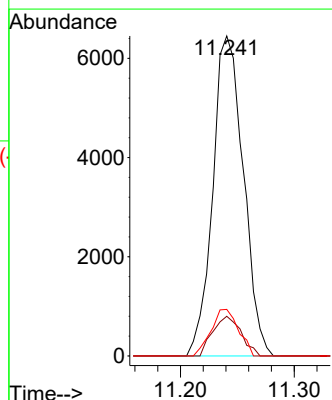
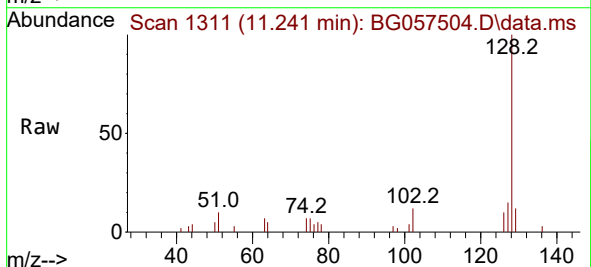
Tgt Ion:128 Resp: 12046

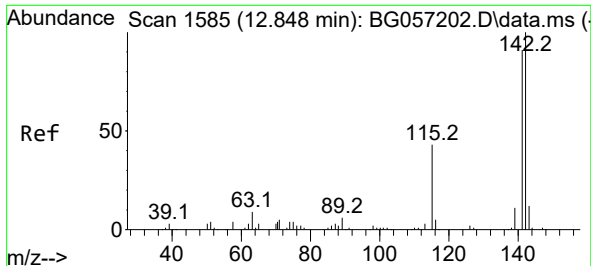
Ion Ratio Lower Upper

128 100

129 12.4 8.3 12.5

127 14.5 11.1 16.7





#37

2-Methylnaphthalene

Concen: 2.985 ng

RT: 12.821 min Scan# 1580

Delta R.T. -0.005 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

Instrument :

BNA_G

ClientSampleId :

ETGI-289

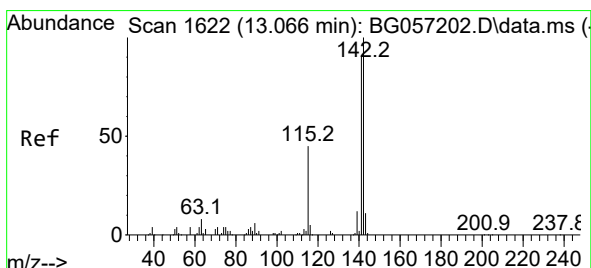
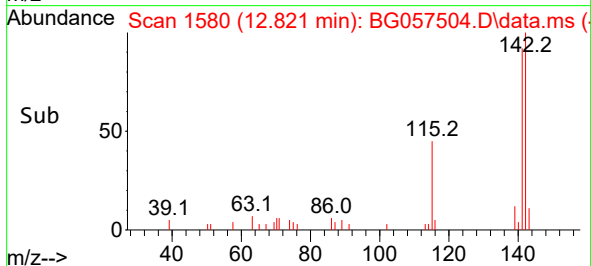
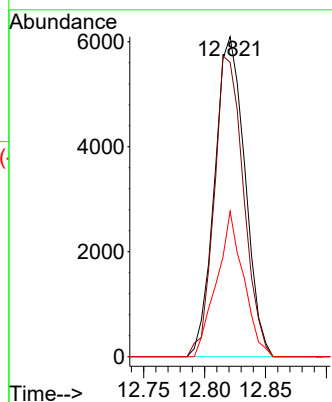
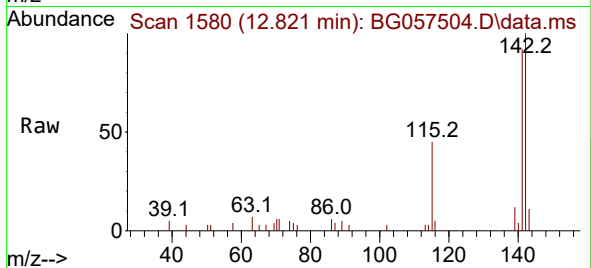
Tgt Ion:142 Resp: 10531

Ion Ratio Lower Upper

142 100

141 92.0 73.1 109.7

115 45.4 34.6 52.0



#38

1-Methylnaphthalene

Concen: 3.167 ng

RT: 12.821 min Scan# 1580

Delta R.T. -0.223 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

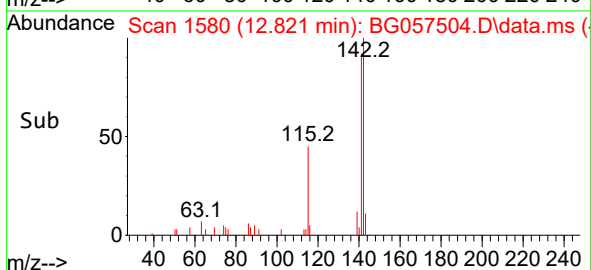
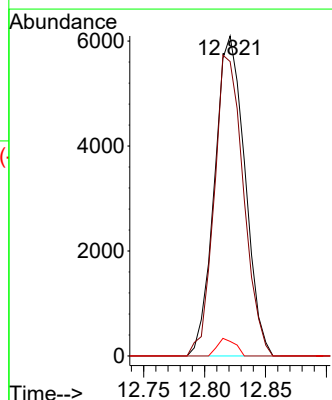
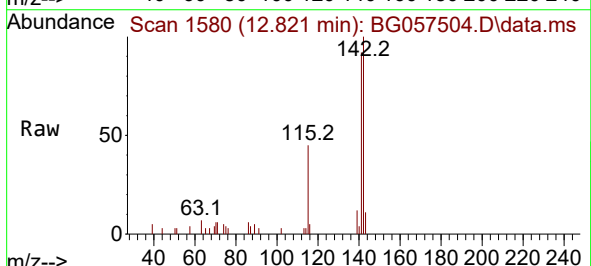
Tgt Ion:142 Resp: 10531

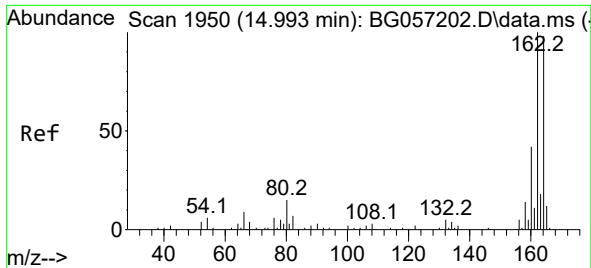
Ion Ratio Lower Upper

142 100

141 92.0 72.5 108.7

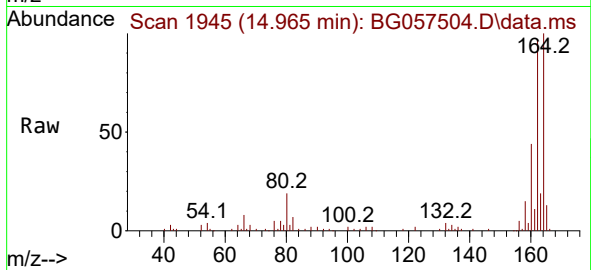
116 4.5 3.7 5.5



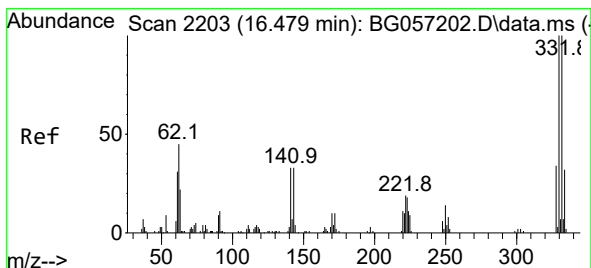
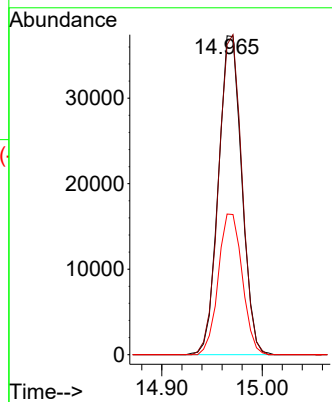
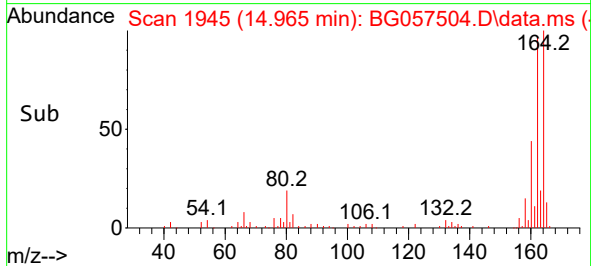


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.965 min Scan# 1945
Delta R.T. -0.011 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

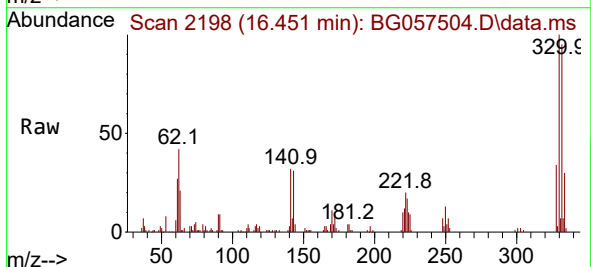
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BNA_G
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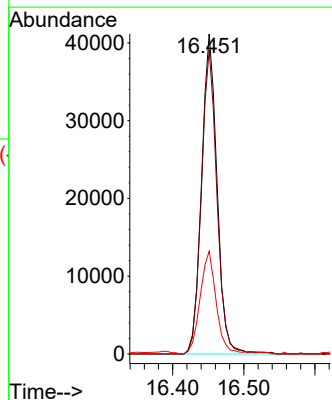
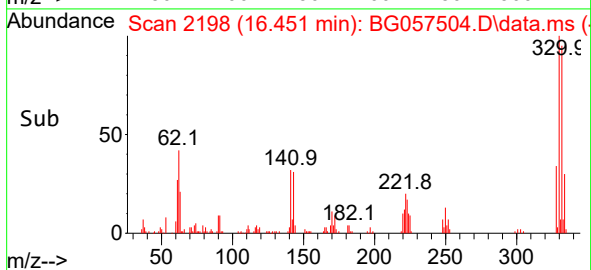
Tgt Ion:164 Resp: 59994
Ion Ratio Lower Upper
164 100
162 97.3 81.8 122.6
160 44.1 34.6 52.0

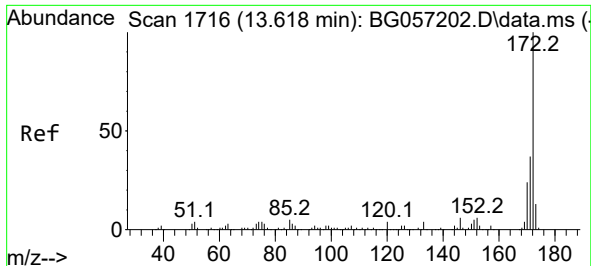


#42
2,4,6-Tribromophenol
Concen: 73.280 ng
RT: 16.451 min Scan# 2198
Delta R.T. -0.005 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06



Tgt Ion:330 Resp: 62380
Ion Ratio Lower Upper
330 100
332 95.3 78.2 117.2
141 33.1 27.8 41.8

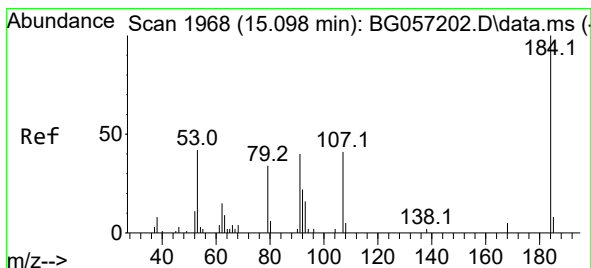
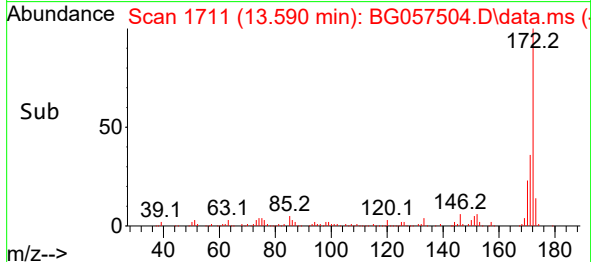
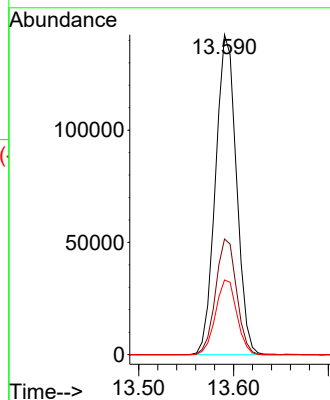
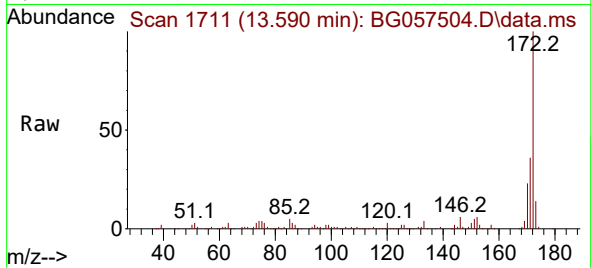




#45
2-Fluorobiphenyl
Concen: 48.996 ng
RT: 13.590 min Scan# 11
Delta R.T. -0.011 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

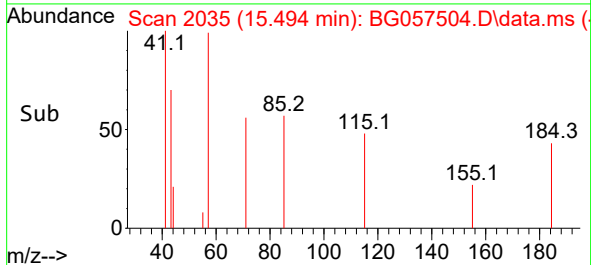
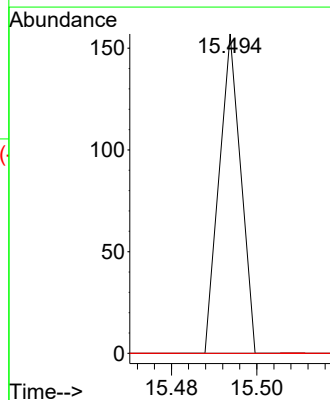
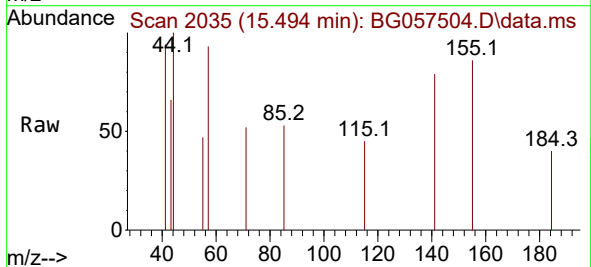
Instrument :
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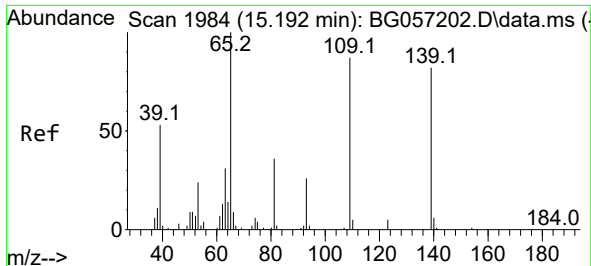
Tgt Ion:172 Resp: 218258
Ion Ratio Lower Upper
172 100
171 36.1 29.4 44.0
170 23.4 19.0 28.6



#54
2,4-Dinitrophenol
Concen: 4.999 ng
RT: 15.494 min Scan# 2035
Delta R.T. 0.406 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:184 Resp: 55
Ion Ratio Lower Upper
184 100
63 0.0 48.2 72.4#
154 0.0 55.4 83.2#

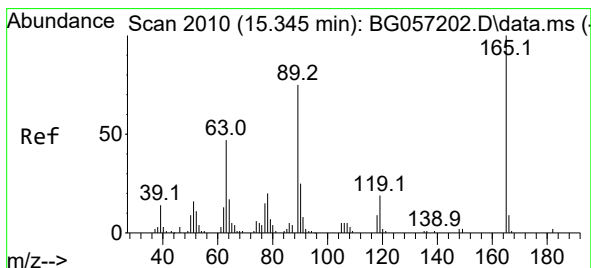
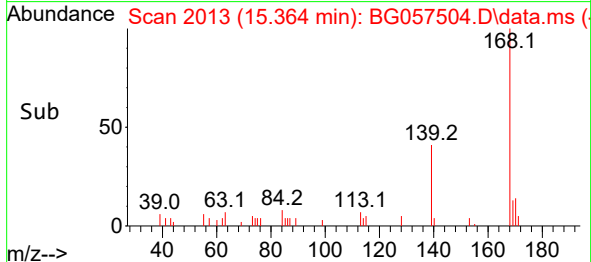
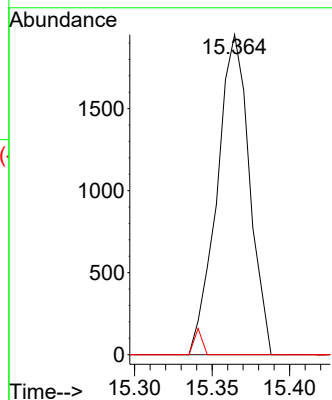
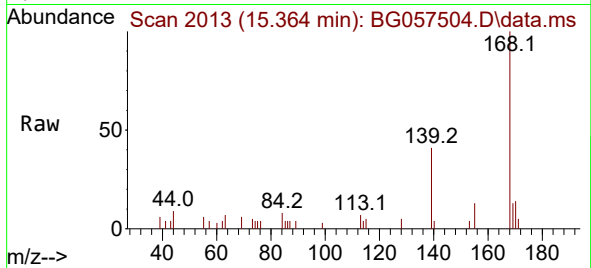




#56
4-Nitrophenol
Concen: 4.228 ng
RT: 15.364 min Scan# 20
Delta R.T. 0.183 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

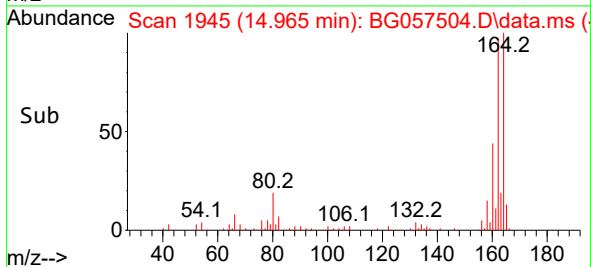
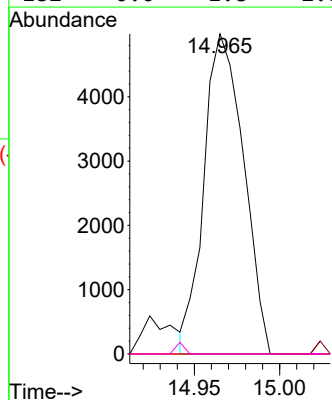
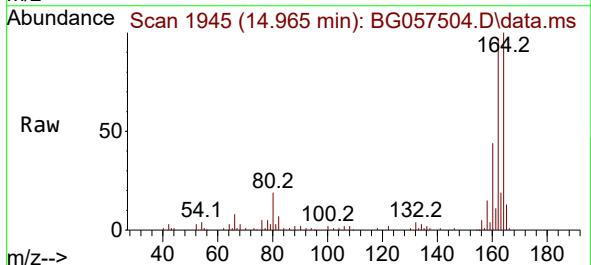
Instrument :
BNA_G
ClientSampleId :
ETGI-289

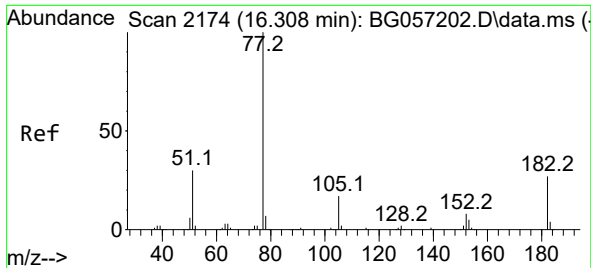
Tgt Ion:139 Resp: 2836
Ion Ratio Lower Upper
139 100
109 0.0 86.6 126.6#
65 0.0 102.6 142.6#



#57
2,4-Dinitrotoluene
Concen: 5.578 ng
RT: 14.965 min Scan# 1945
Delta R.T. -0.364 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:165 Resp: 8024
Ion Ratio Lower Upper
165 100
63 0.0 37.5 56.3#
89 0.0 60.2 90.4#
182 0.0 1.8 2.8#

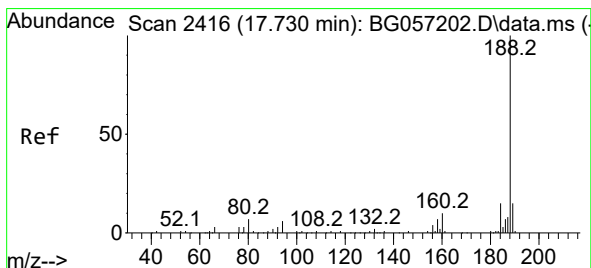
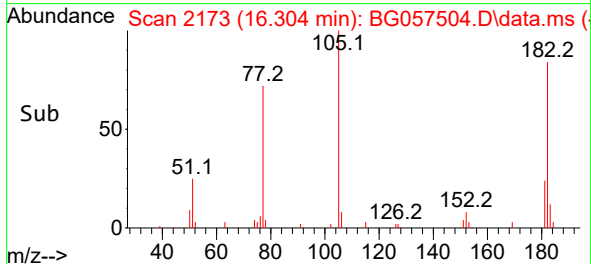
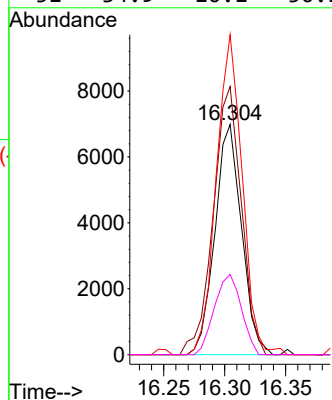
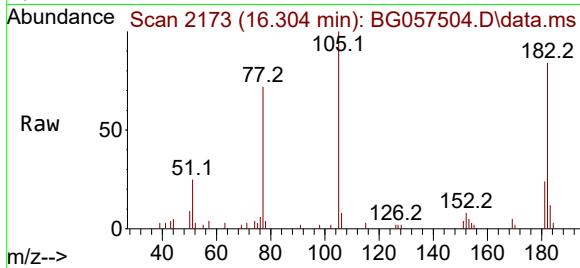




#63
Azobenzene
Concen: 2.197 ng
RT: 16.304 min Scan# 2173
Delta R.T. 0.018 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

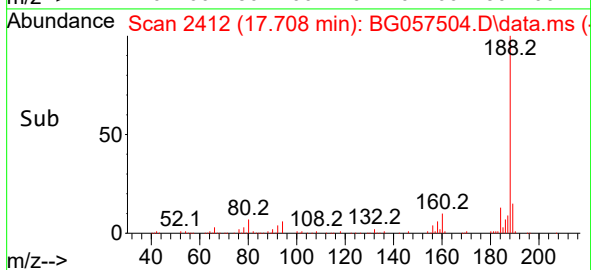
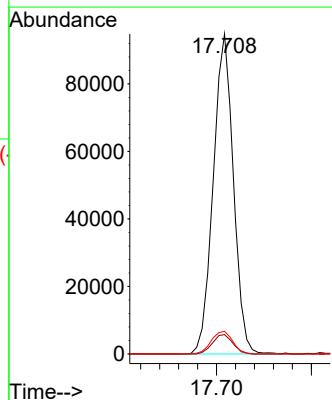
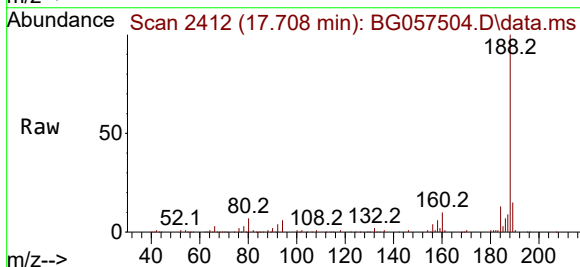
Instrument :
BNA_G
ClientSampleId :
ETGI-289

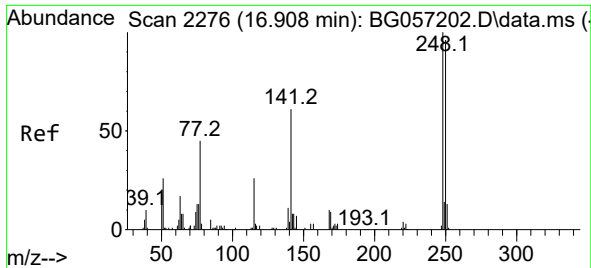
Tgt Ion: 77 Resp: 10613
Ion Ratio Lower Upper
77 100
182 116.5 7.4 47.4#
105 139.0 0.0 37.2#
51 34.9 10.1 50.1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.708 min Scan# 2412
Delta R.T. -0.005 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:188 Resp: 139893
Ion Ratio Lower Upper
188 100
94 6.1 5.1 7.7
80 7.1 5.7 8.5

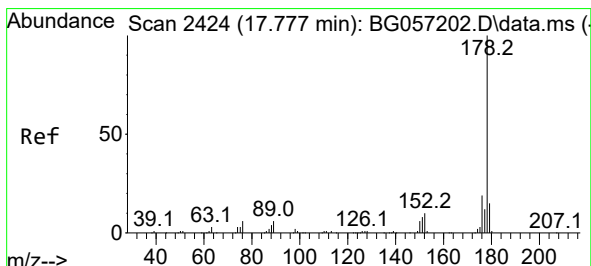
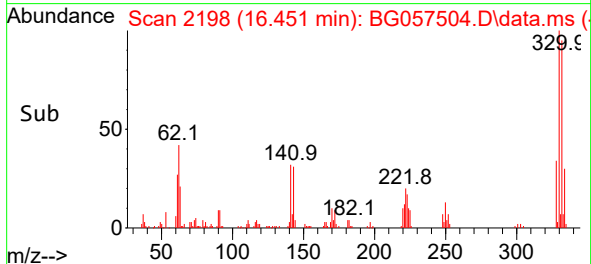
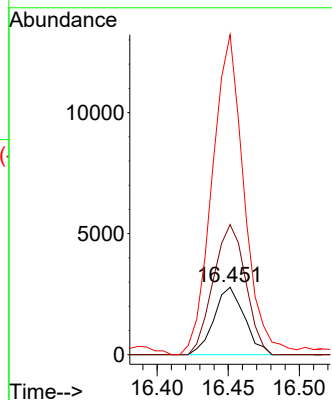
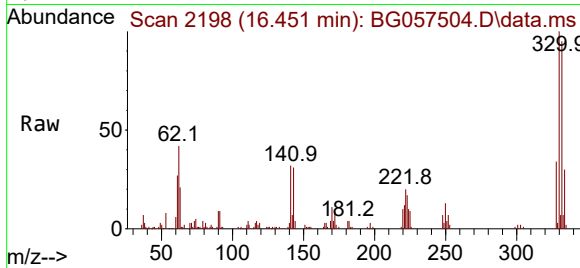




#67
4-Bromophenyl-phenylether
Concen: 2.430 ng
RT: 16.451 min Scan# 2198
Delta R.T. -0.434 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

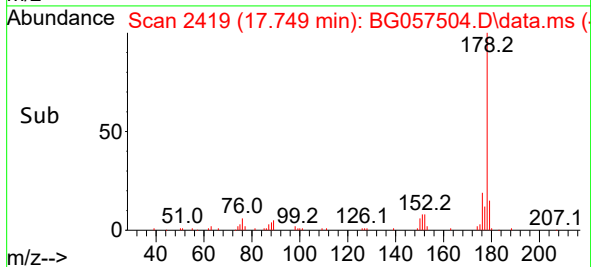
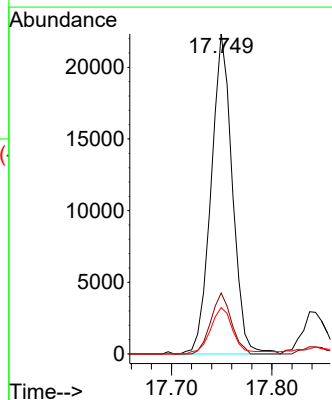
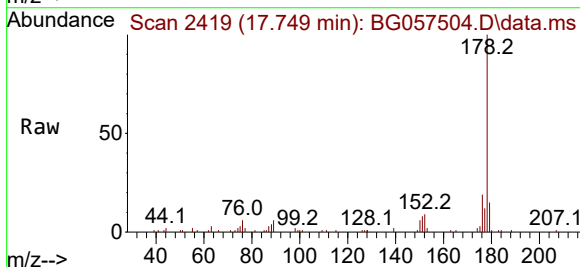
Instrument :
BNA_G
ClientSampleId :
ETGI-289

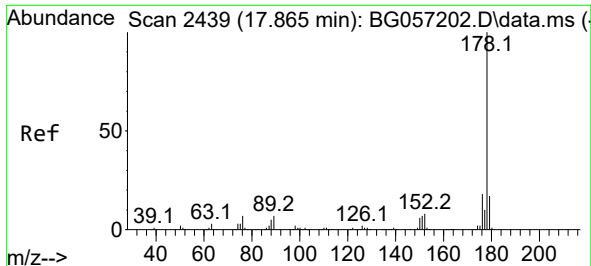
Tgt Ion:248 Resp: 4150
Ion Ratio Lower Upper
248 100
250 192.9 77.0 115.6#
141 474.6 48.6 72.8#



#71
Phenanthrene
Concen: 4.574 ng
RT: 17.749 min Scan# 2419
Delta R.T. -0.005 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:178 Resp: 32789
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 14.5 12.3 18.5

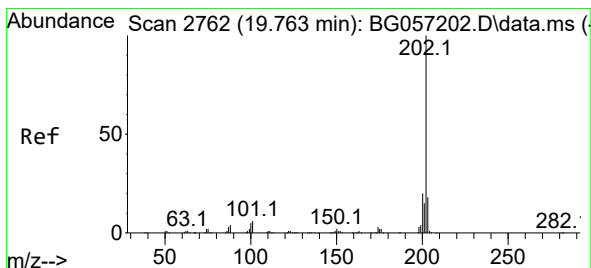
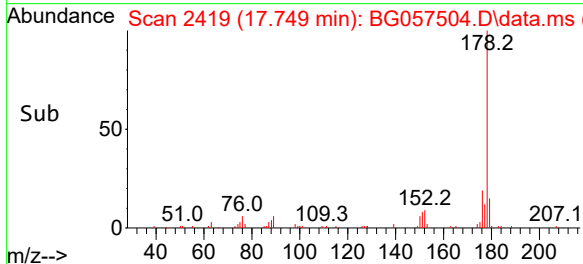
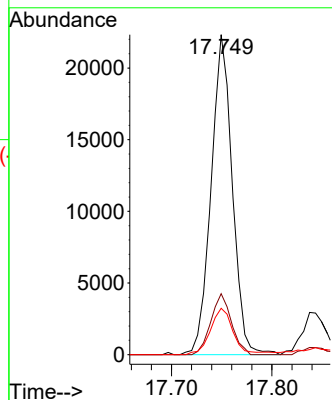
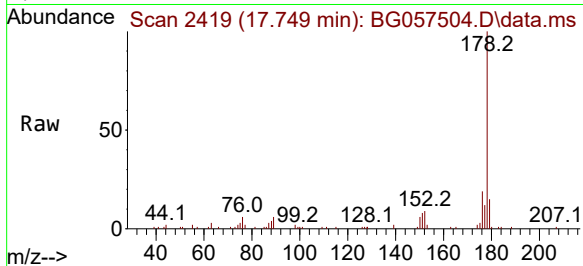




#72
 Anthracene
 Concen: 4.458 ng
 RT: 17.749 min Scan# 24
 Delta R.T. -0.099 min
 Lab File: BG057504.D
 Acq: 22 May 2023 22:06

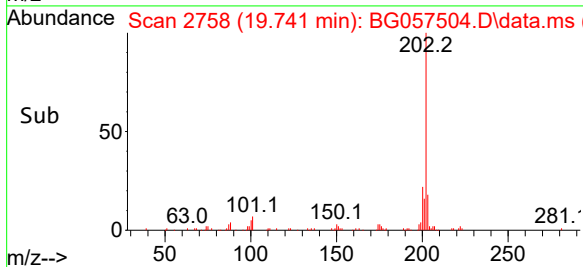
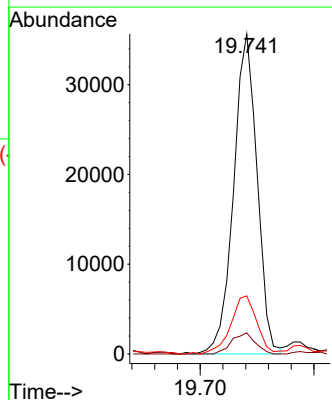
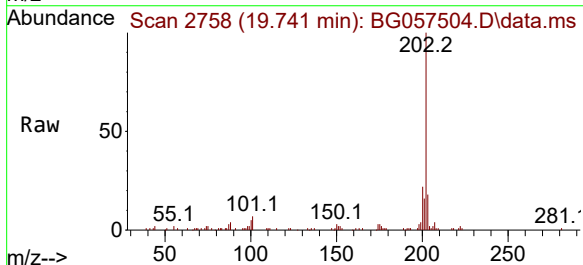
Instrument :
 BNA_G
 ClientSampleId :
 ETGI-289

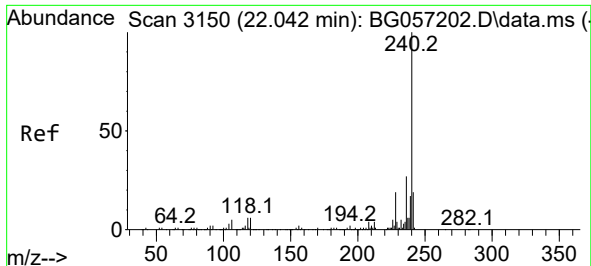
Tgt Ion:178 Resp: 32789
 Ion Ratio Lower Upper
 178 100
 176 19.1 14.7 22.1
 179 14.5 13.2 19.8



#75
 Fluoranthene
 Concen: 5.727 ng
 RT: 19.741 min Scan# 2758
 Delta R.T. -0.005 min
 Lab File: BG057504.D
 Acq: 22 May 2023 22:06

Tgt Ion:202 Resp: 51057
 Ion Ratio Lower Upper
 202 100
 101 6.6 0.0 26.2
 203 18.2 0.0 37.9

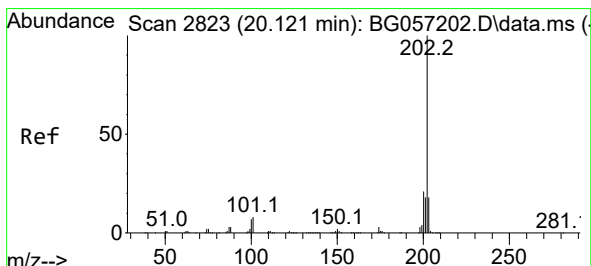
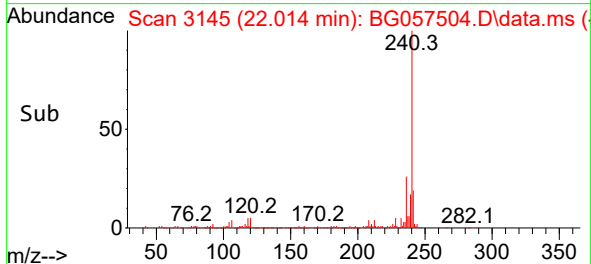
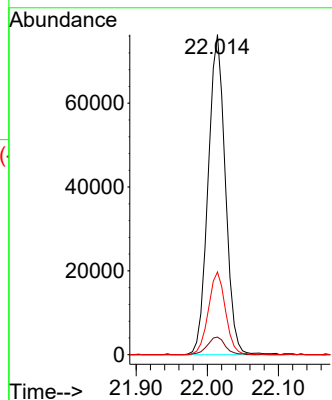
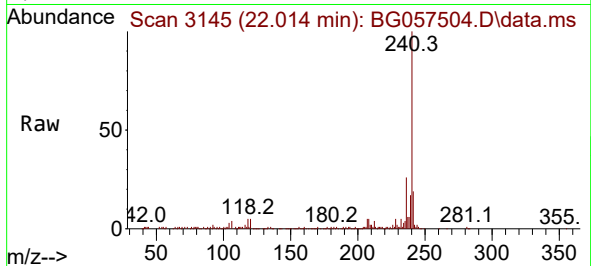




#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.014 min Scan# 31
Delta R.T. -0.005 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

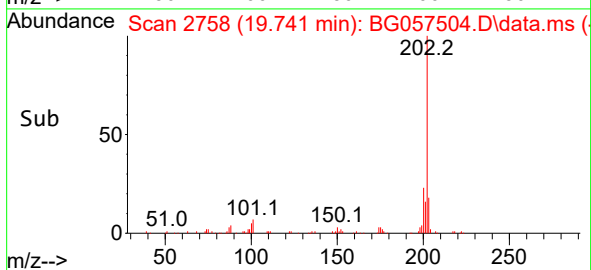
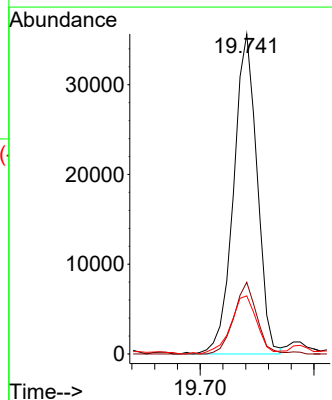
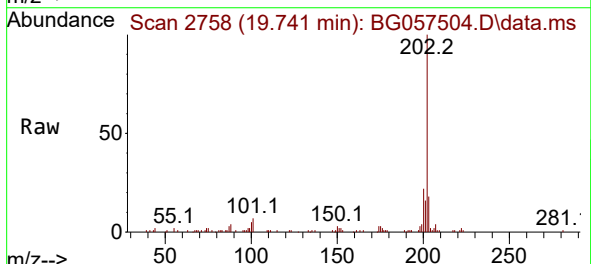
Instrument :
BNA_G
ClientSampleId :
ETGI-289

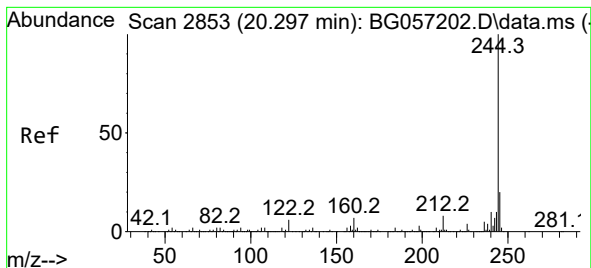
Tgt Ion:240 Resp: 128562
Ion Ratio Lower Upper
240 100
120 5.5 4.9 7.3
236 25.9 21.4 32.2



#78
Pyrene
Concen: 5.465 ng
RT: 19.741 min Scan# 2758
Delta R.T. -0.364 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:202 Resp: 51057
Ion Ratio Lower Upper
202 100
200 22.4 17.0 25.4
203 18.2 14.2 21.4





#79

Terphenyl-d14

Concen: 44.712 ng

RT: 20.275 min Scan# 21

Delta R.T. -0.005 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

Instrument :

BNA_G

ClientSampleId :

ETGI-289

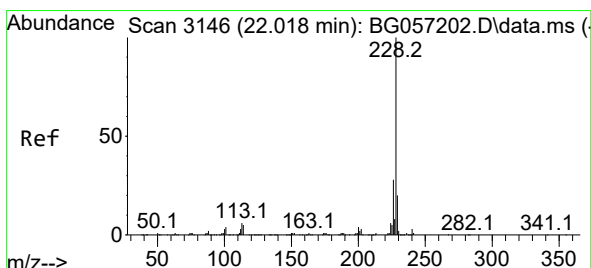
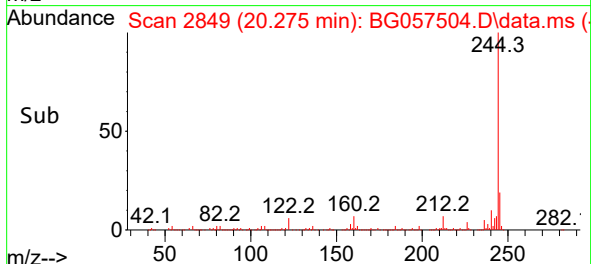
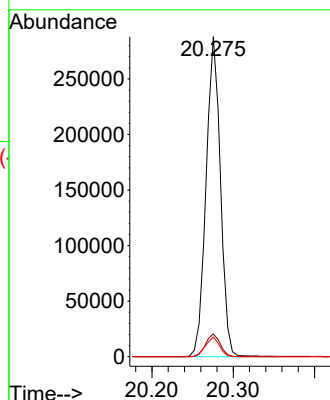
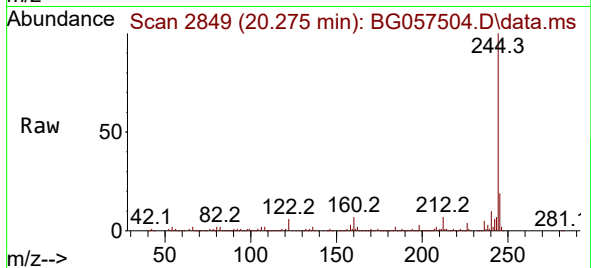
Tgt Ion:244 Resp: 352241

Ion Ratio Lower Upper

244 100

212 7.1 6.1 9.1

122 6.1 5.1 7.7



#81

Benzo(a)anthracene

Concen: 3.288 ng

RT: 21.991 min Scan# 3141

Delta R.T. -0.005 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

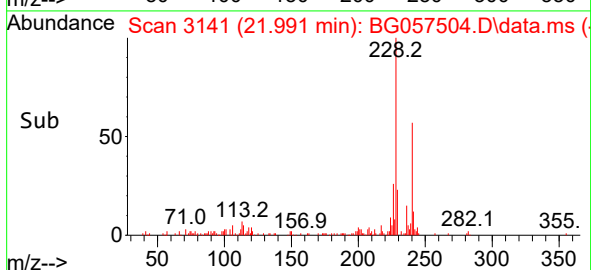
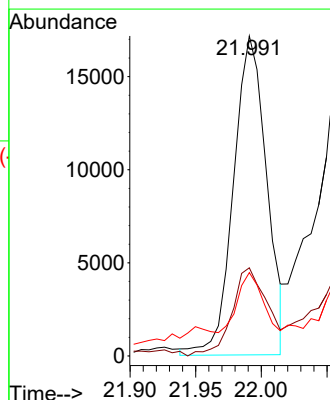
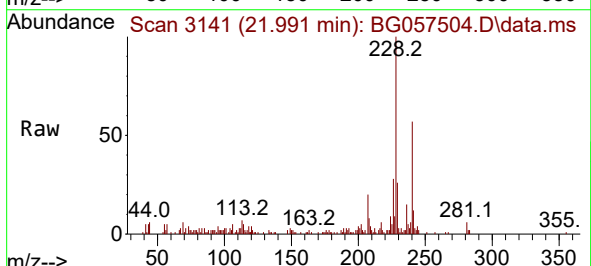
Tgt Ion:228 Resp: 30117

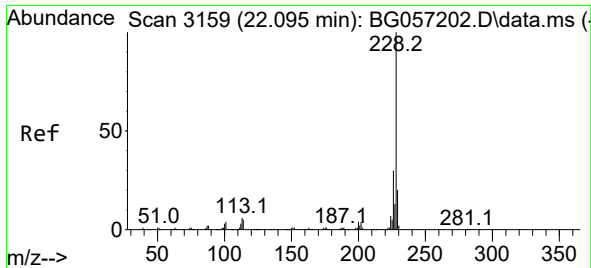
Ion Ratio Lower Upper

228 100

226 27.6 22.0 33.0

229 26.0 15.8 23.8#

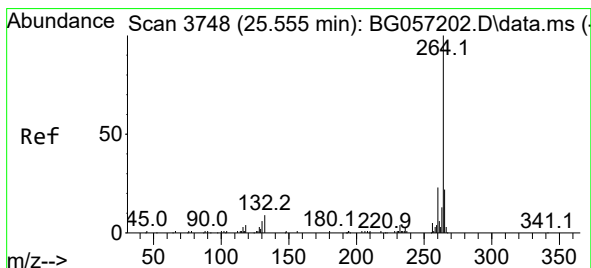
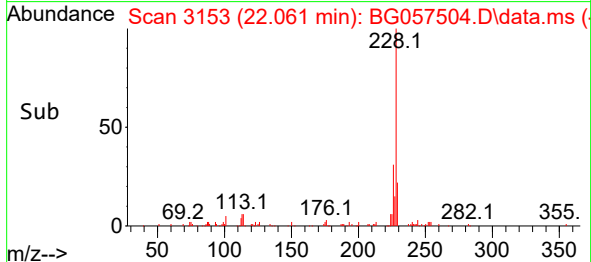
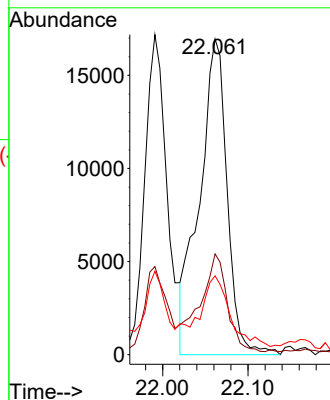
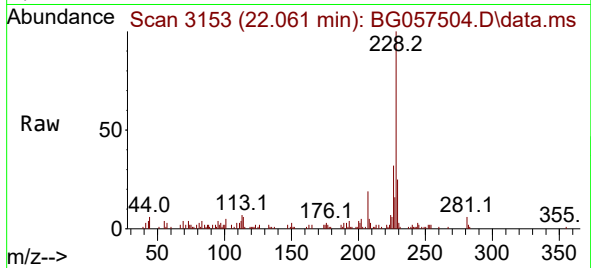




#83
Chrysene
Concen: 4.445 ng
RT: 22.061 min Scan# 3159
Delta R.T. -0.011 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

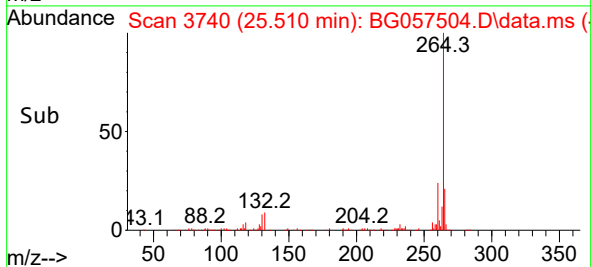
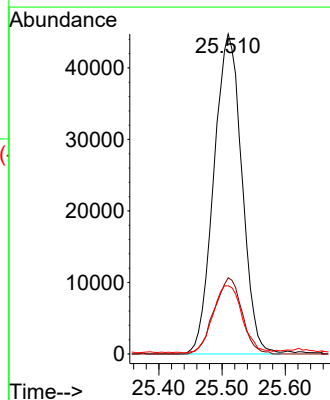
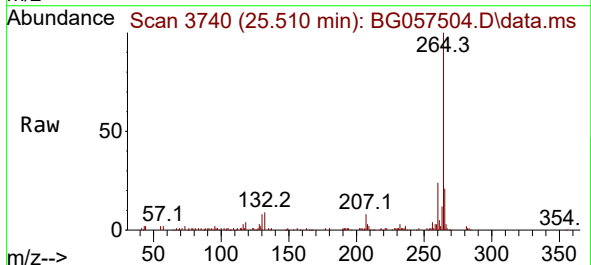
Instrument :
BNA_G
ClientSampleId :
ETGI-289

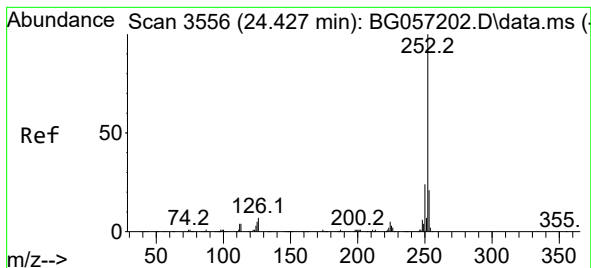
Tgt Ion:228 Resp: 38307
Ion Ratio Lower Upper
228 100
226 31.9 24.3 36.5
229 25.0 15.9 23.9#



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.510 min Scan# 3740
Delta R.T. -0.005 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:264 Resp: 138047
Ion Ratio Lower Upper
264 100
260 23.8 18.8 28.2
265 21.3 17.9 26.9





#88

Benzo(b)fluoranthene

Concen: 4.694 ng

RT: 24.393 min Scan# 3550

Delta R.T. 0.001 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

Instrument :

BNA_G

ClientSampleId :

ETGI-289

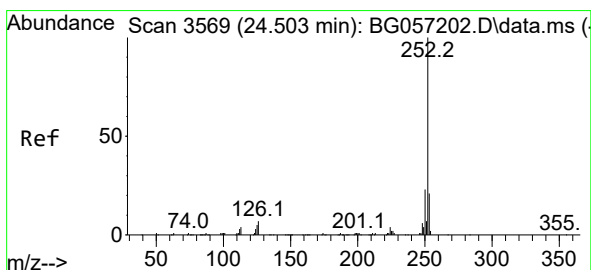
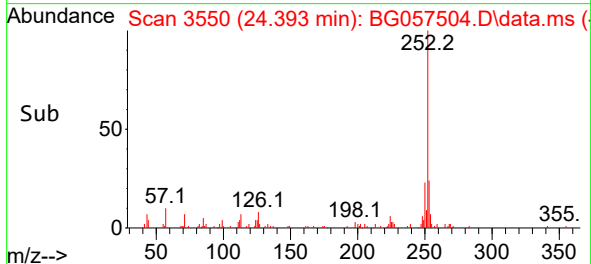
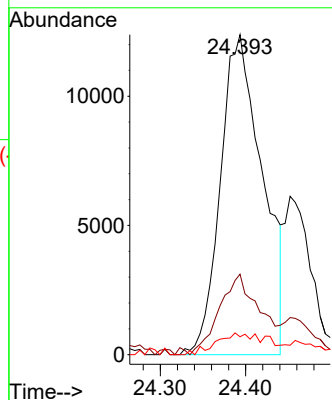
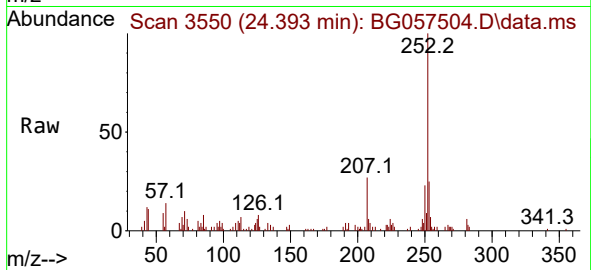
Tgt Ion:252 Resp: 42357

Ion Ratio Lower Upper

252 100

253 25.1 17.0 25.6

125 5.6 4.2 6.2



#89

Benzo(k)fluoranthene

Concen: 4.619 ng

RT: 24.393 min Scan# 3550

Delta R.T. -0.076 min

Lab File: BG057504.D

Acq: 22 May 2023 22:06

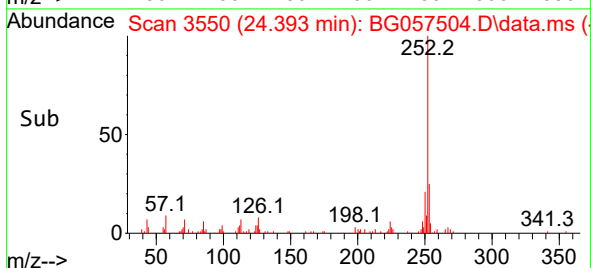
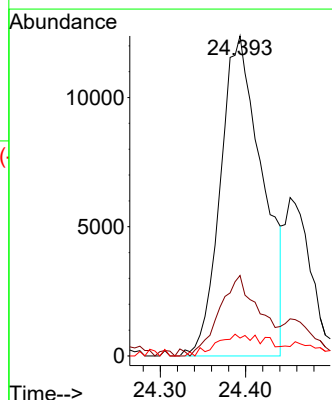
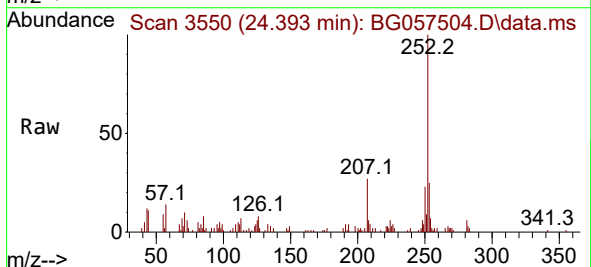
Tgt Ion:252 Resp: 42357

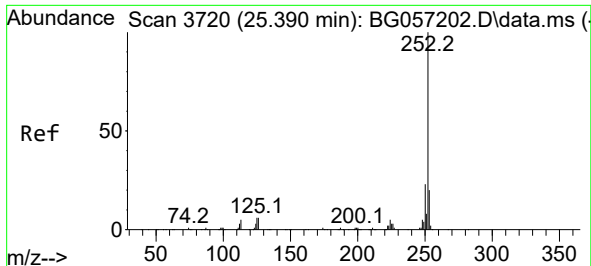
Ion Ratio Lower Upper

252 100

253 25.1 17.4 26.0

125 5.6 4.1 6.1

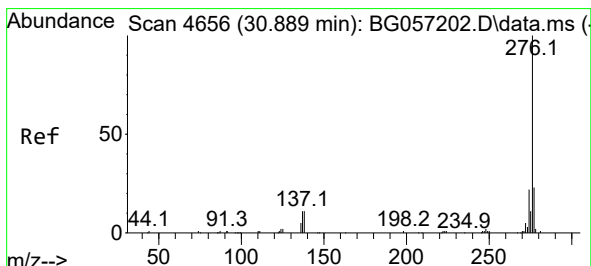
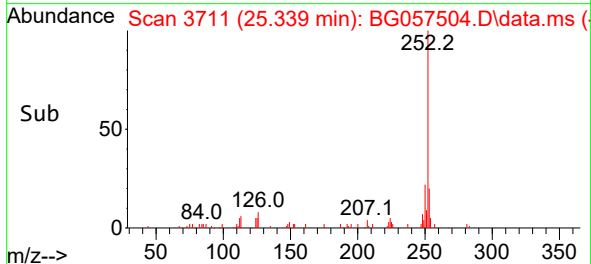
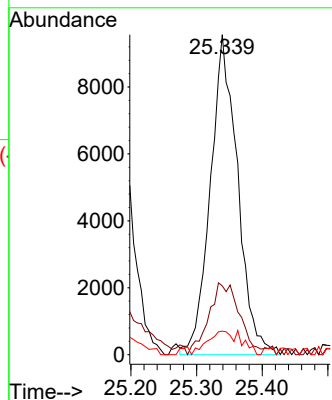
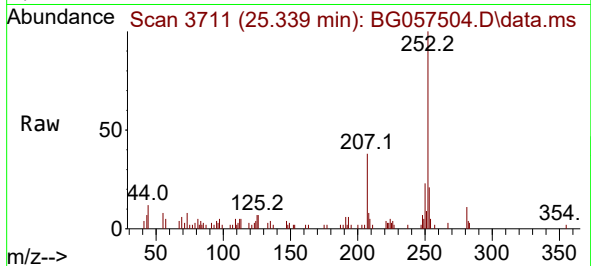




#90
Benzo(a)pyrene
Concen: 3.123 ng
RT: 25.339 min Scan# 31
Delta R.T. -0.017 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Instrument :
BNA_G
ClientSampleId :
ETGI-289

Tgt Ion:252 Resp: 27532
Ion Ratio Lower Upper
252 100
253 21.5 16.3 24.5
125 7.4 5.0 7.4



#92
Benzo(g,h,i)perylene
Concen: 2.147 ng
RT: 30.820 min Scan# 4644
Delta R.T. -0.017 min
Lab File: BG057504.D
Acq: 22 May 2023 22:06

Tgt Ion:276 Resp: 17568
Ion Ratio Lower Upper
276 100
277 22.1 18.4 27.6
138 10.5 9.0 13.4

