

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040523\
 Data File : BG057001.D
 Acq On : 5 Apr 2023 22:04
 Operator : CG/JU
 Sample : 02126-06
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RS-F

Quant Time: Apr 06 02:04:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 06 01:57:04 2023
 Response via : Initial Calibration

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

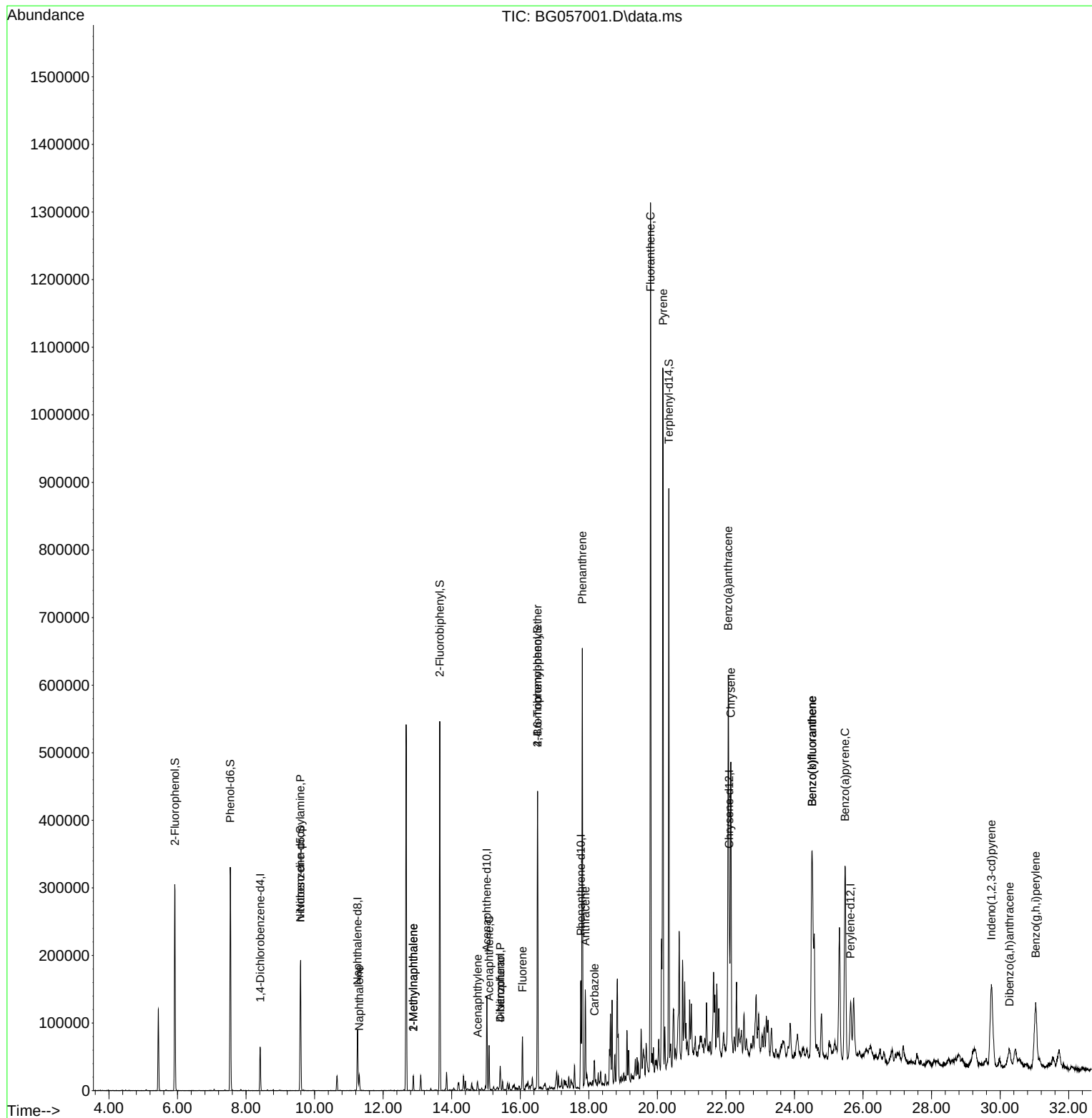
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.410	152	17652	20.000	ng	0.00
21) Naphthalene-d8	11.253	136	71426	20.000	ng	0.00
39) Acenaphthene-d10	15.025	164	47803	20.000	ng	0.00
64) Phenanthrene-d10	17.768	188	102440	20.000	ng	0.00
76) Chrysene-d12	22.092	240	87909	20.000	ng	0.00
86) Perylene-d12	25.634	264	96659	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.925	112	128304	116.329	ng	0.00
7) Phenol-d6	7.541	99	188122	114.042	ng	0.00
23) Nitrobenzene-d5	9.585	82	121902	69.834	ng	0.00
42) 2,4,6-Tribromophenol	16.505	330	83019	108.711	ng	0.00
45) 2-Fluorobiphenyl	13.650	172	272754	77.371	ng	0.00
79) Terphenyl-d14	20.335	244	389828	75.038	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	9.585	70	17194	14.572	ng	# 81
31) Naphthalene	11.300	128	15845	4.070	ng	98
37) 2-Methylnaphthalene	12.881	142	9476	3.067	ng	92
38) 1-Methylnaphthalene	12.881	142	9476	3.266	ng	95
49) Acenaphthylene	14.754	152	9388	2.208	ng	# 92
52) Acenaphthene	15.089	154	24370	8.310	ng	91
55) Dibenzofuran	15.418	168	18763	4.263	ng	91
56) 4-Nitrophenol	15.418	139	7616	12.786	ng	# 1
58) Fluorene	16.064	166	32700	8.978	ng	95
67) 4-Bromophenyl-phenylether	16.505	248	5123	4.042	ng	# 1
71) Phenanthrene	17.809	178	399964	76.579	ng	100
72) Anthracene	17.897	178	90958	16.988	ng	99
73) Carbazole	18.162	167	22664	4.855	ng	# 93
75) Fluoranthene	19.801	202	803445	121.352	ng	99
78) Pyrene	20.165	202	711084	116.950	ng	99
81) Benzo(a)anthracene	22.068	228	377852	62.113	ng	99
83) Chrysene	22.144	228	339248	59.560	ng	96
87) Indeno(1,2,3-cd)pyrene	29.746	276	239387	33.511	ng	# 92
88) Benzo(b)fluoranthene	24.512	252	454345	75.168	ng	99
89) Benzo(k)fluoranthene	24.512	252	454345	75.294	ng	98
90) Benzo(a)pyrene	25.475	252	357488	60.187	ng	99
91) Dibenzo(a,h)anthracene	30.275	278	44335	7.550	ng	93
92) Benzo(g,h,i)perylene	31.038	276	234292	40.749	ng	99

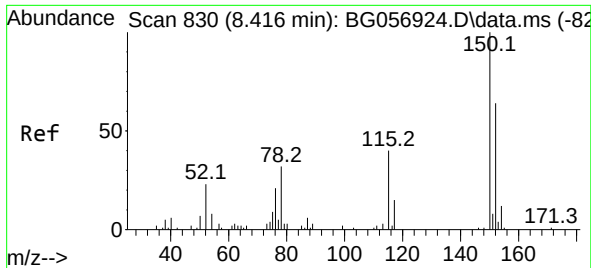
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 06 02:04:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 06 01:57:04 2023
Response via : Initial Calibration

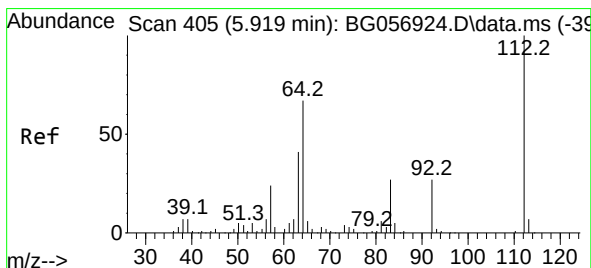
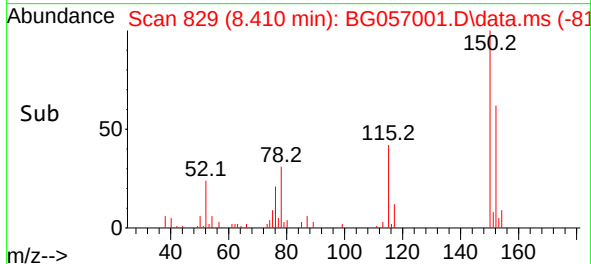
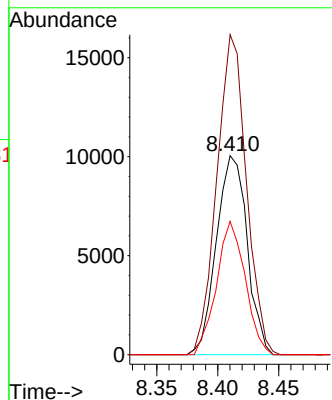
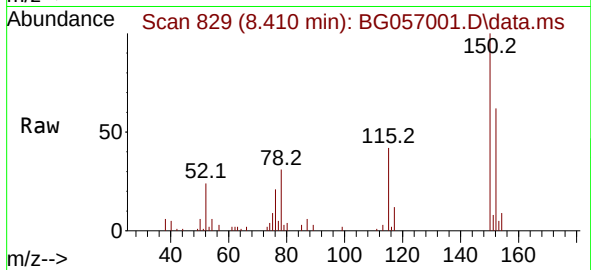




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.410 min Scan# 81
Delta R.T. -0.010 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

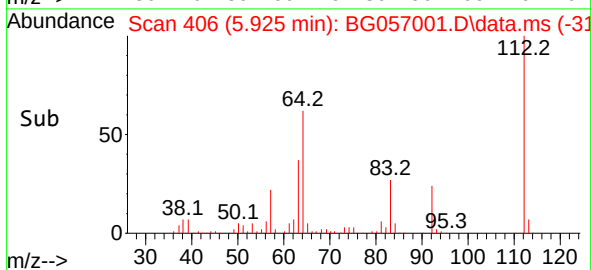
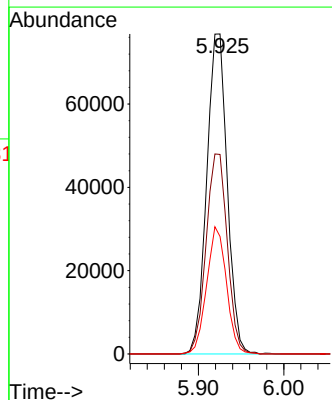
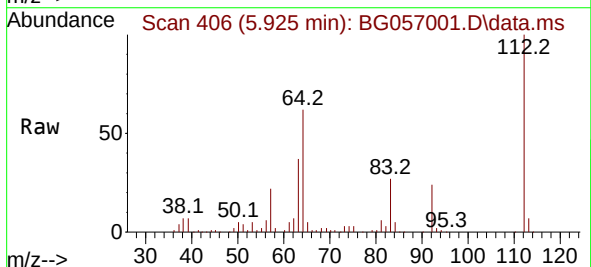
Instrument :
BNA_G
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RS-F

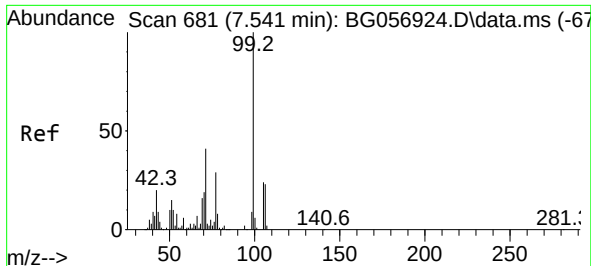
Tgt Ion:152 Resp: 17652
Ion Ratio Lower Upper
152 100
150 160.8 124.1 186.1
115 67.0 49.1 73.7



#5
2-Fluorophenol
Concen: 116.329 ng
RT: 5.925 min Scan# 406
Delta R.T. 0.002 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:112 Resp: 128304
Ion Ratio Lower Upper
112 100
64 62.4 53.2 79.8
63 36.7 32.6 48.8





#7
Phenol-d6
Concen: 114.042 ng
RT: 7.541 min Scan# 61
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

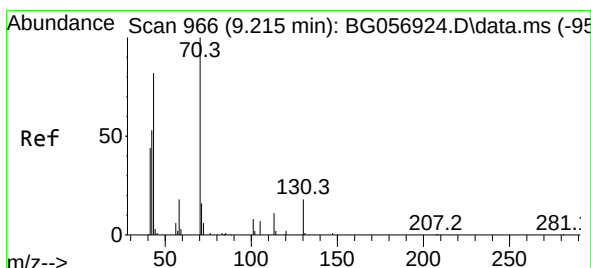
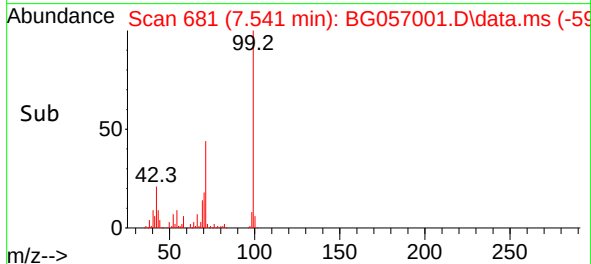
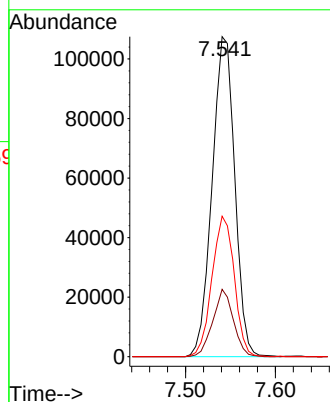
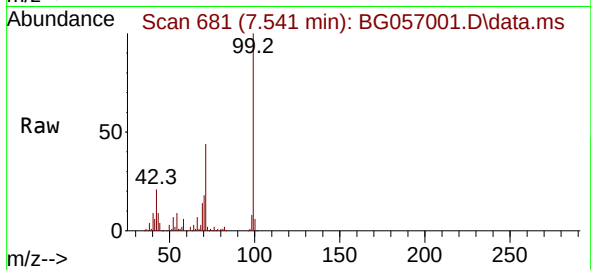
Instrument :

BNA_G

ClientSampleId :

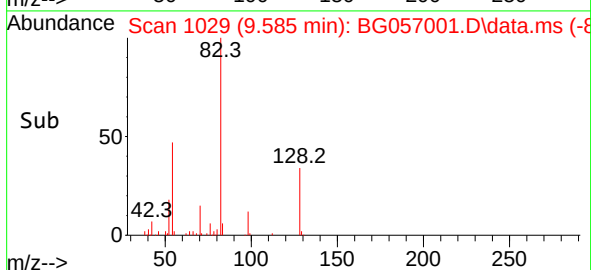
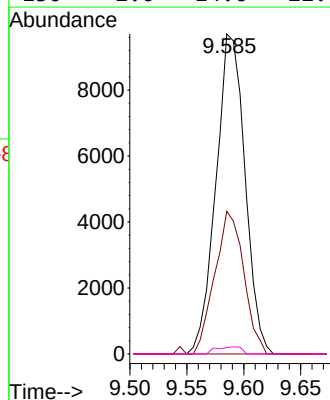
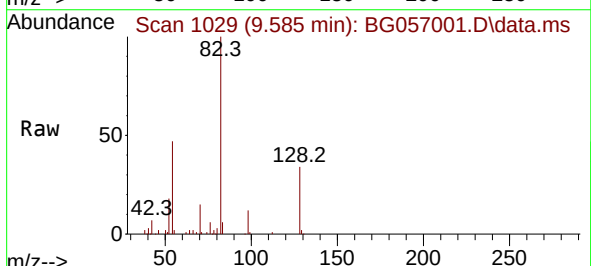
RS-F

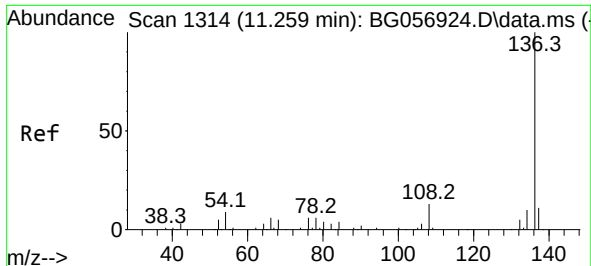
Tgt Ion: 99 Resp: 188122
Ion Ratio Lower Upper
99 100
42 21.0 15.7 23.5
71 43.9 32.5 48.7



#19
n-Nitroso-di-n-propylamine
Concen: 14.572 ng
RT: 9.585 min Scan# 1029
Delta R.T. 0.366 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion: 70 Resp: 17194
Ion Ratio Lower Upper
70 100
42 44.6 43.4 65.0
101 0.0 6.2 9.2#
130 2.0 14.6 22.0#

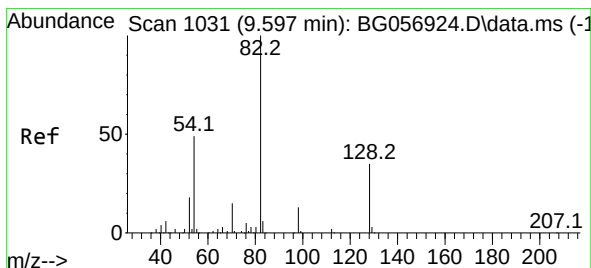
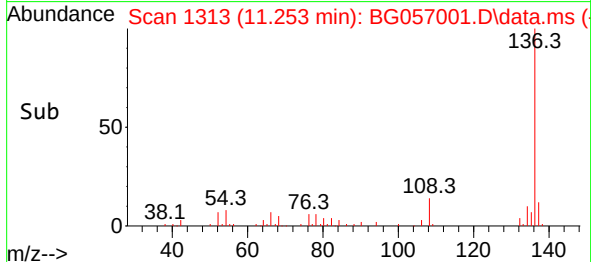
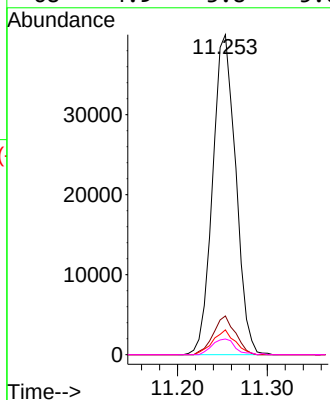
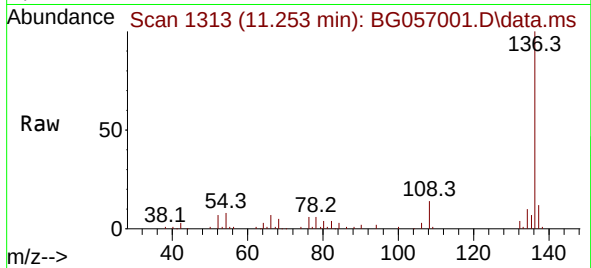




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.253 min Scan# 11
Delta R.T. -0.010 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

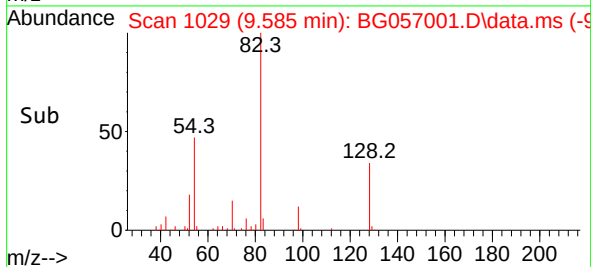
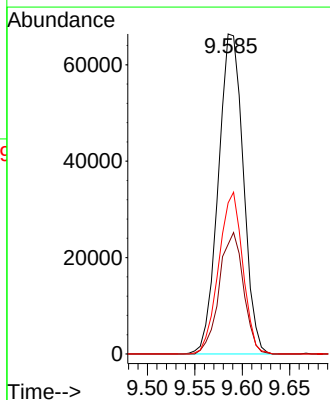
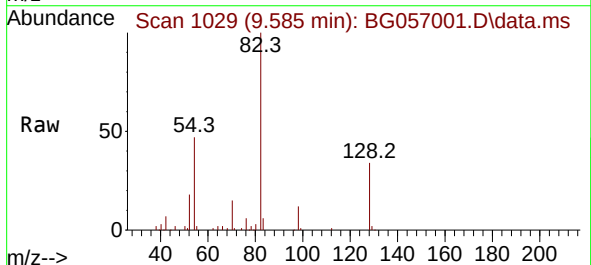
Instrument :
BNA_G
ClientSampleId :
RS-F

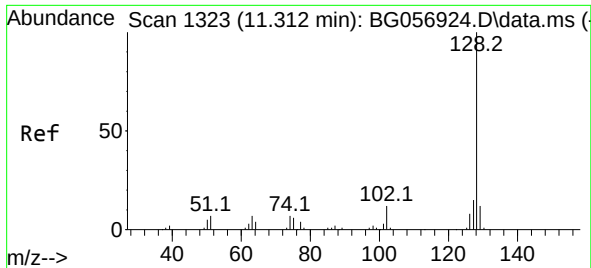
Tgt Ion:	136	Resp:	71426
Ion Ratio	Lower	Upper	
136	100		
137	12.1	8.6	13.0
54	7.8	6.9	10.3
68	4.9	3.8	5.6



#23
Nitrobenzene-d5
Concen: 69.834 ng
RT: 9.585 min Scan# 1029
Delta R.T. -0.010 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:	82	Resp:	121902
Ion Ratio	Lower	Upper	
82	100		
128	34.3	27.9	41.9
54	47.2	39.4	59.2

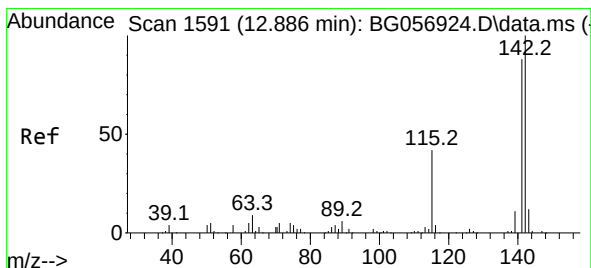
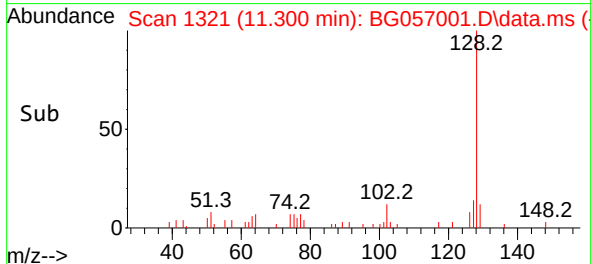
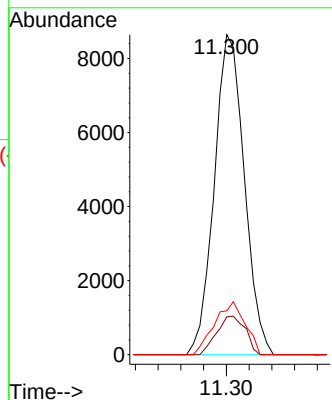
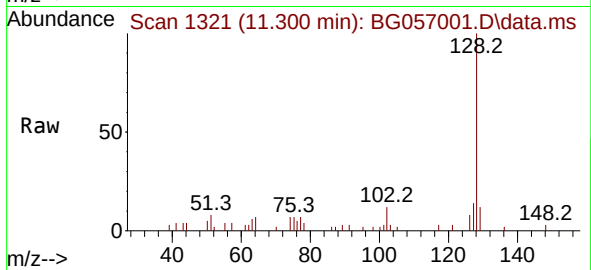




#31
Naphthalene
Concen: 4.070 ng
RT: 11.300 min Scan# 11
Delta R.T. -0.010 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

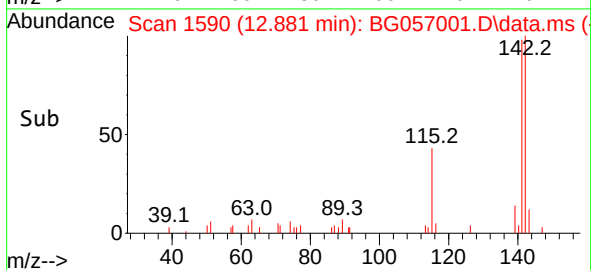
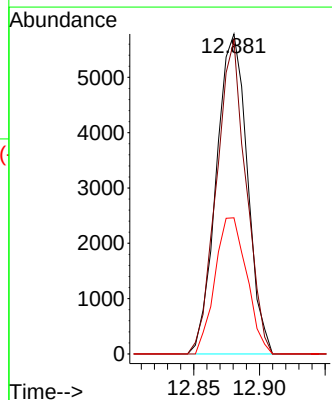
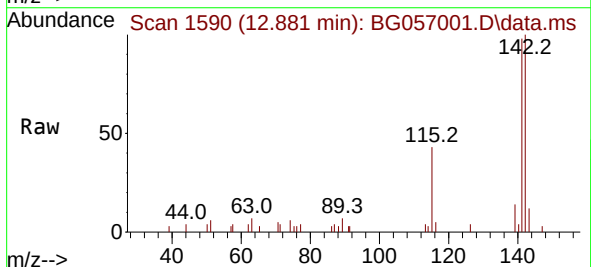
Instrument :
BNA_G
ClientSampleId :
RS-F

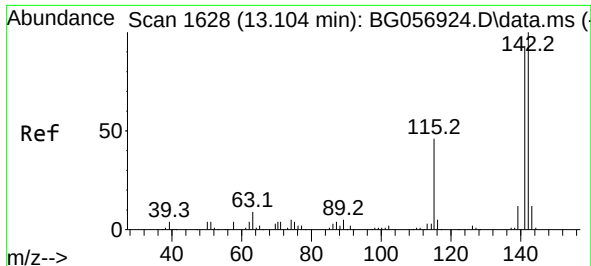
Tgt Ion:128 Resp: 15845
Ion Ratio Lower Upper
128 100
129 11.8 9.4 14.2
127 13.7 12.2 18.4



#37
2-Methylnaphthalene
Concen: 3.067 ng
RT: 12.881 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:142 Resp: 9476
Ion Ratio Lower Upper
142 100
141 98.0 70.3 105.5
115 42.6 33.5 50.3

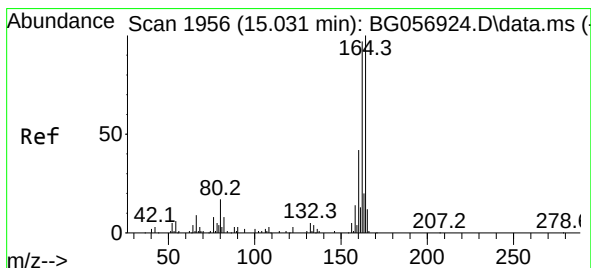
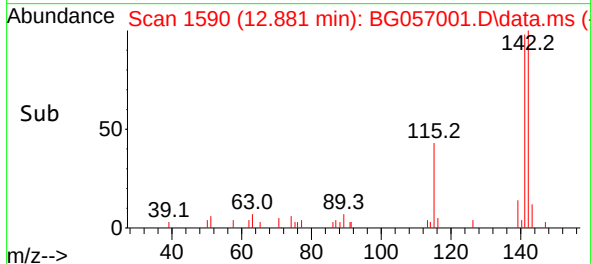
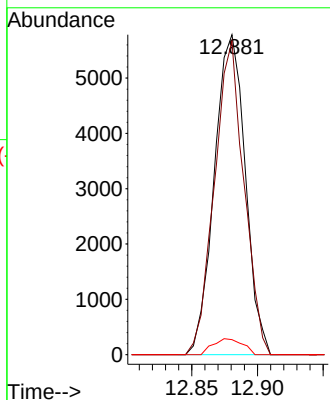
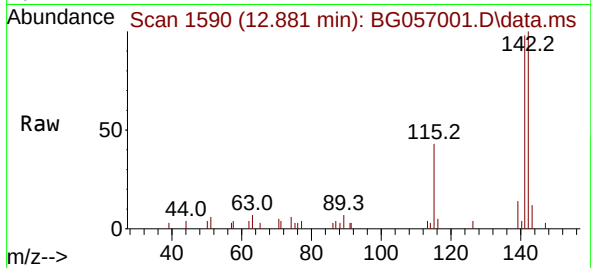




#38
1-Methylnaphthalene
Concen: 3.266 ng
RT: 12.881 min Scan# 1590
Delta R.T. -0.221 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

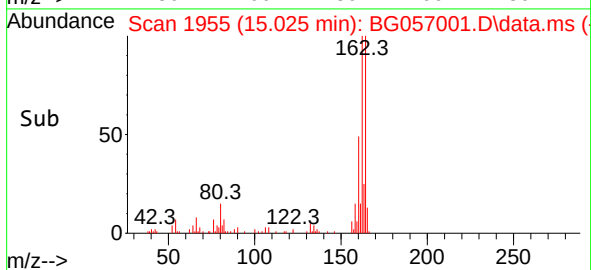
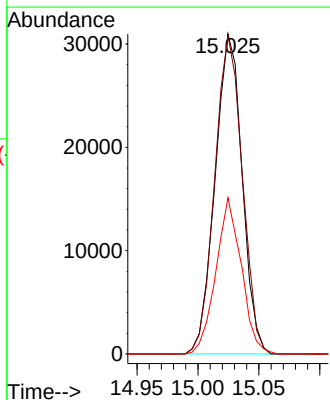
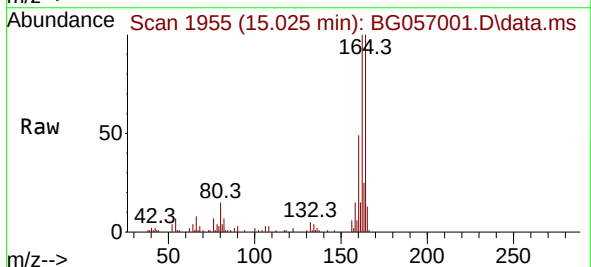
Instrument :
BNA_G
ClientSampleId :
RS-F

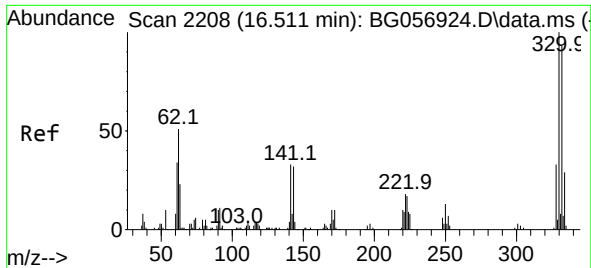
Tgt Ion:142 Resp: 9476
Ion Ratio Lower Upper
142 100
141 98.0 74.0 111.0
116 4.7 3.7 5.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.025 min Scan# 1955
Delta R.T. -0.010 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:164 Resp: 47803
Ion Ratio Lower Upper
164 100
162 99.6 77.8 116.8
160 48.8 33.5 50.3

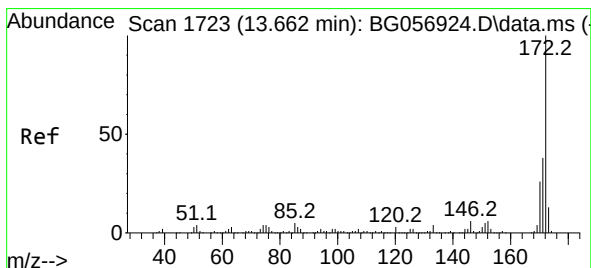
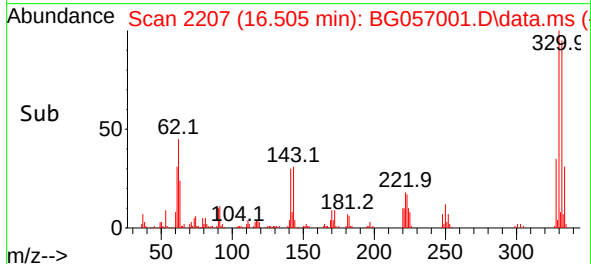
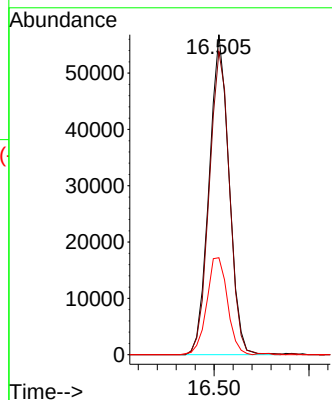
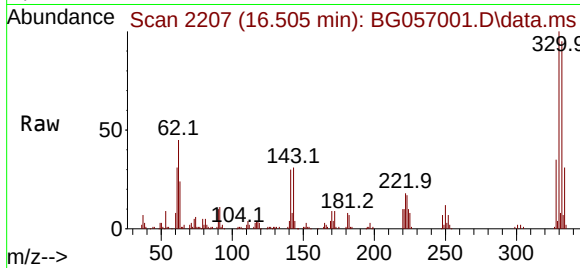




#42
2,4,6-Tribromophenol
Concen: 108.711 ng
RT: 16.505 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

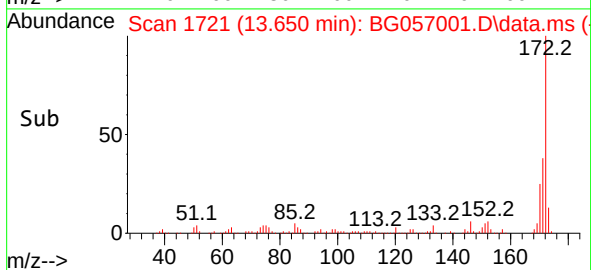
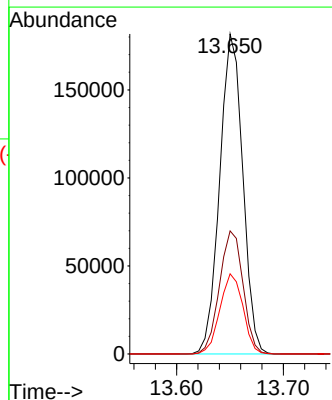
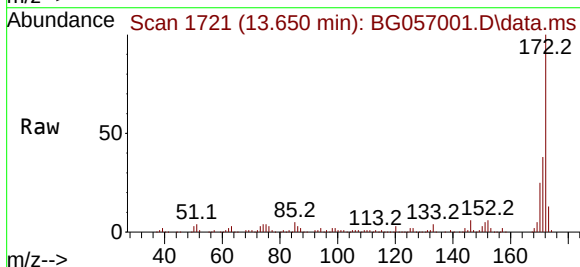
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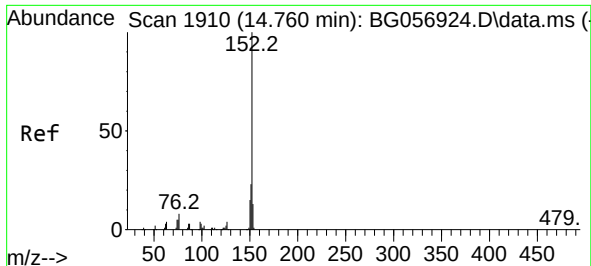
Tgt Ion:330 Resp: 83019
Ion Ratio Lower Upper
330 100
332 96.3 76.1 114.1
141 31.5 25.8 38.6



#45
2-Fluorobiphenyl
Concen: 77.371 ng
RT: 13.650 min Scan# 1721
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:172 Resp: 272754
Ion Ratio Lower Upper
172 100
171 38.4 30.6 46.0
170 25.1 20.6 30.8

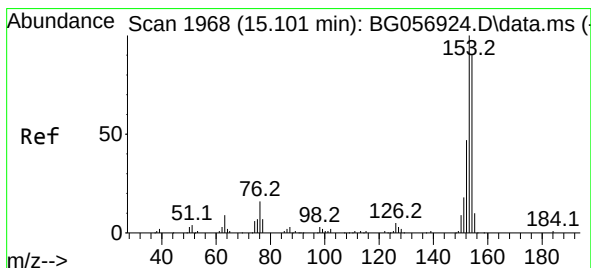
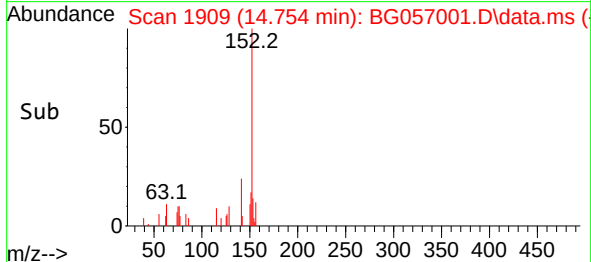
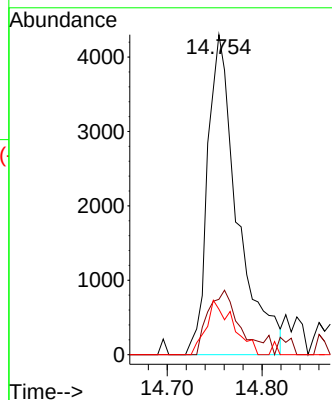
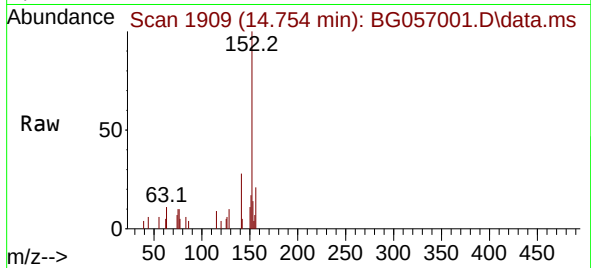




#49
Acenaphthylene
Concen: 2.208 ng
RT: 14.754 min Scan# 1909
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

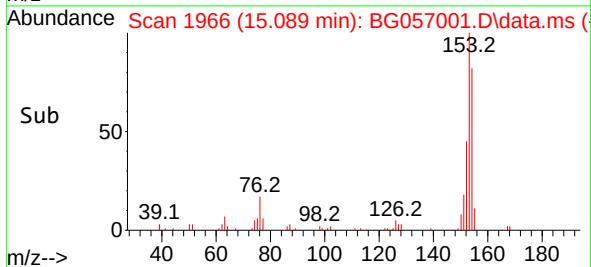
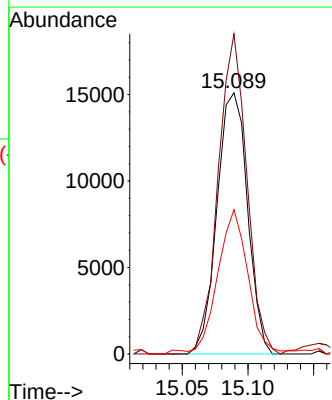
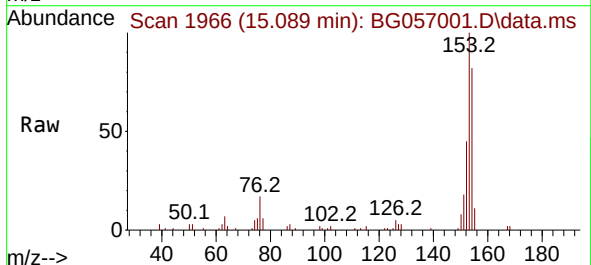
Instrument :
BNA_G
ClientSampleId :
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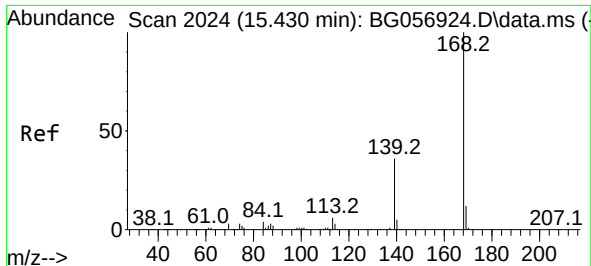
Tgt Ion:152 Resp: 9388
Ion Ratio Lower Upper
152 100
151 17.3 18.2 27.2#
153 14.2 10.5 15.7



#52
Acenaphthene
Concen: 8.310 ng
RT: 15.089 min Scan# 1966
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:154 Resp: 24370
Ion Ratio Lower Upper
154 100
153 122.6 88.9 133.3
152 55.3 41.8 62.8

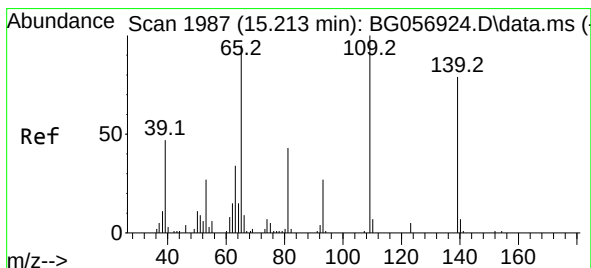
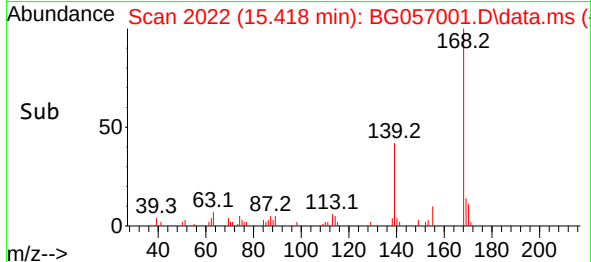
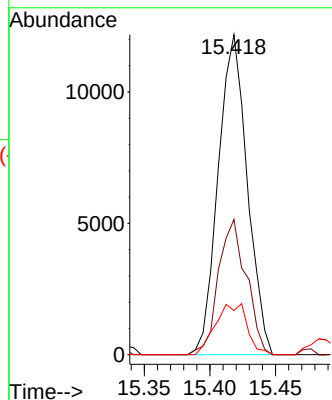
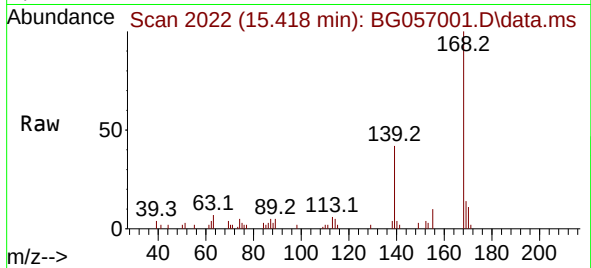




#55
Dibenzenofuran
Concen: 4.263 ng
RT: 15.418 min Scan# 2022
Delta R.T. -0.010 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

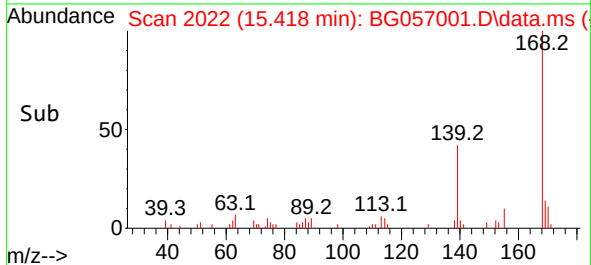
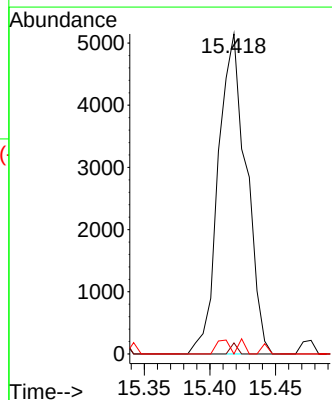
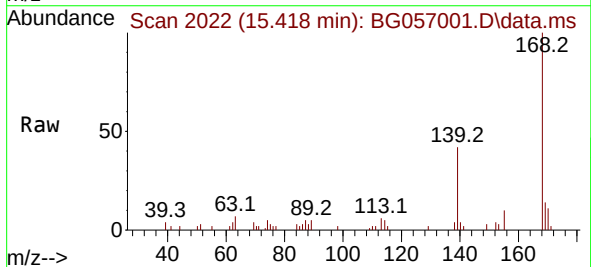
Instrument :
BNA_G
ClientSampleId :
RS-F

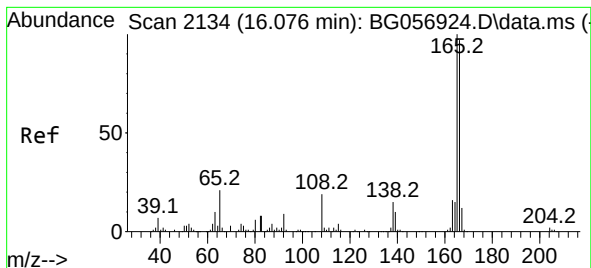
Tgt Ion:168 Resp: 18763
Ion Ratio Lower Upper
168 100
139 42.2 28.9 43.3
169 13.8 9.8 14.6



#56
4-Nitrophenol
Concen: 12.786 ng
RT: 15.418 min Scan# 2022
Delta R.T. 0.202 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:139 Resp: 7616
Ion Ratio Lower Upper
139 100
109 3.4 106.7 146.7#
65 0.0 100.5 140.5#





#58

Fluorene

Concen: 8.978 ng

RT: 16.064 min Scan# 2134

Delta R.T. -0.004 min

Lab File: BG057001.D

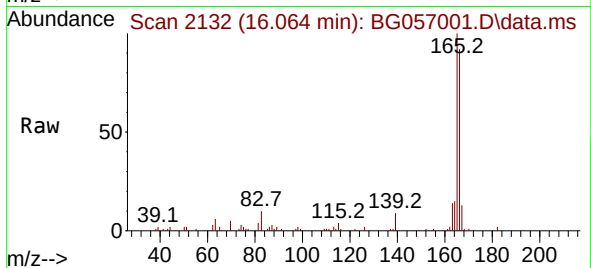
Acq: 5 Apr 2023 22:04

Instrument :

BNA_G

ClientSampleId :

RS-F



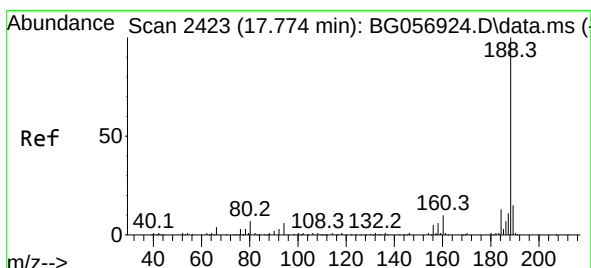
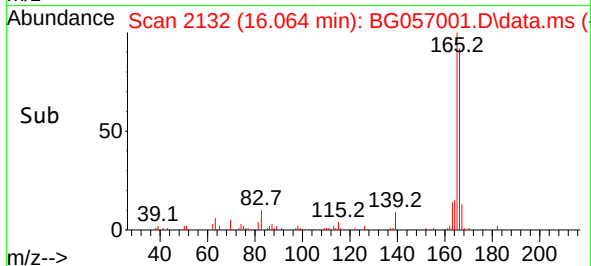
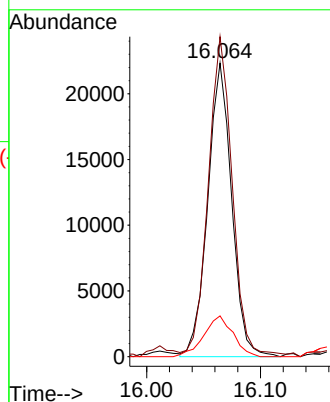
Tgt Ion:166 Resp: 32700

Ion Ratio Lower Upper

166 100

165 109.0 82.6 123.8

167 13.9 10.2 15.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.768 min Scan# 2422

Delta R.T. 0.002 min

Lab File: BG057001.D

Acq: 5 Apr 2023 22:04

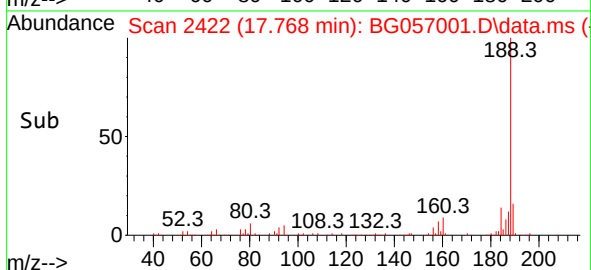
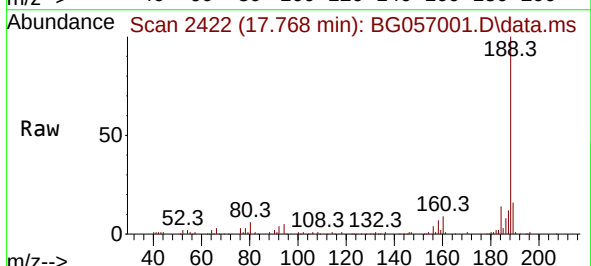
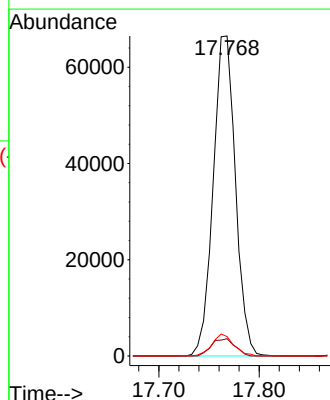
Tgt Ion:188 Resp: 102440

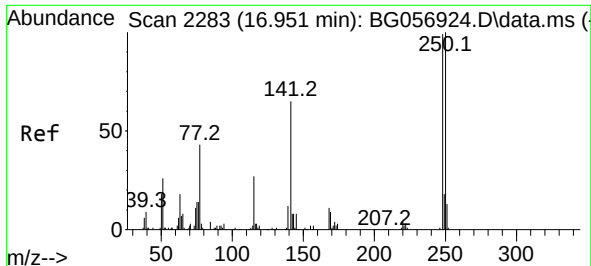
Ion Ratio Lower Upper

188 100

94 5.4 4.6 6.8

80 6.1 5.5 8.3

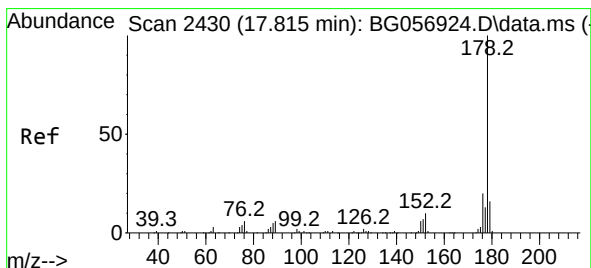
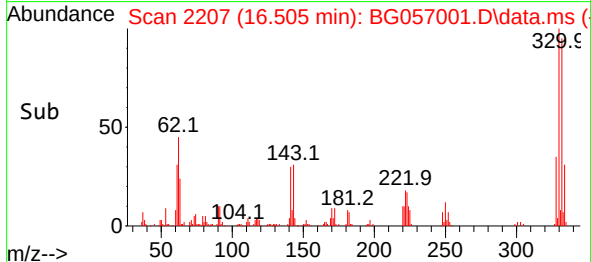
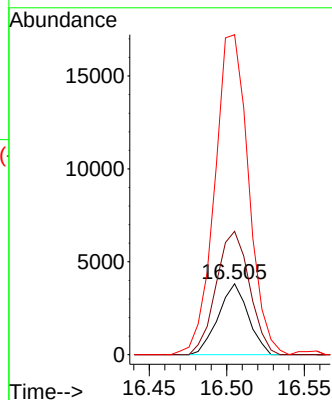
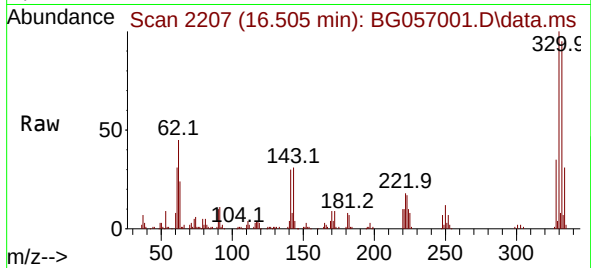




#67
4-Bromophenyl-phenylether
Concen: 4.042 ng
RT: 16.505 min Scan# 21
Delta R.T. -0.438 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

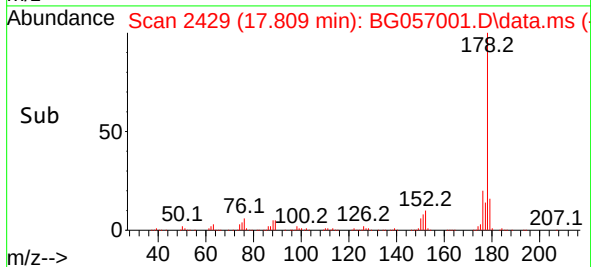
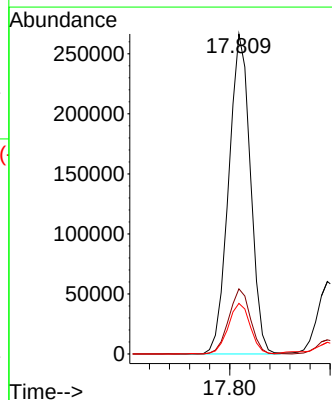
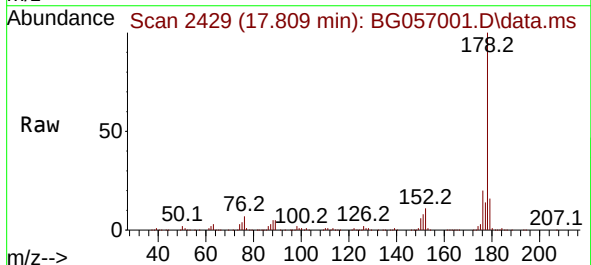
Instrument :
BNA_G
ClientSampleId :
RS-F

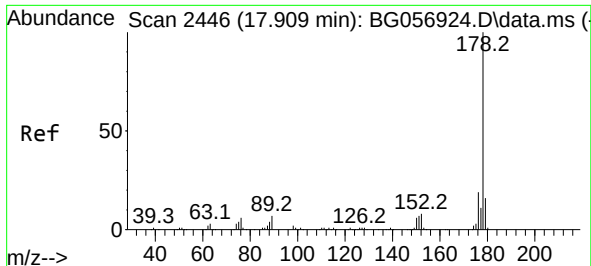
Tgt Ion:248 Resp: 5123
Ion Ratio Lower Upper
248 100
250 174.1 80.5 120.7#
141 451.7 52.0 78.0#



#71
Phenanthrene
Concen: 76.579 ng
RT: 17.809 min Scan# 2429
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:178 Resp: 399964
Ion Ratio Lower Upper
178 100
176 20.3 16.2 24.2
179 15.8 12.5 18.7

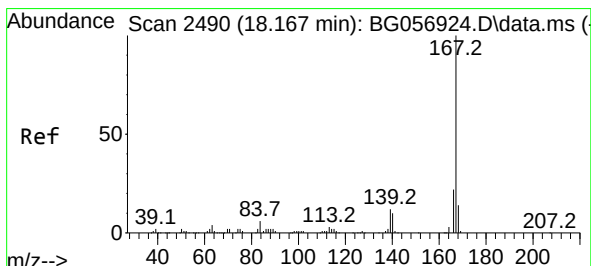
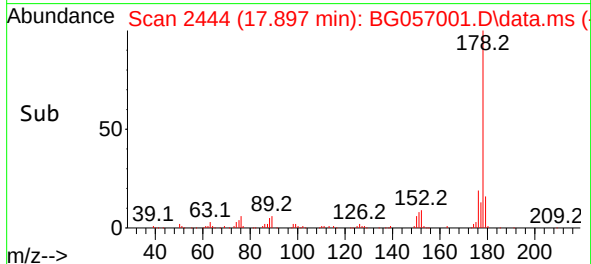
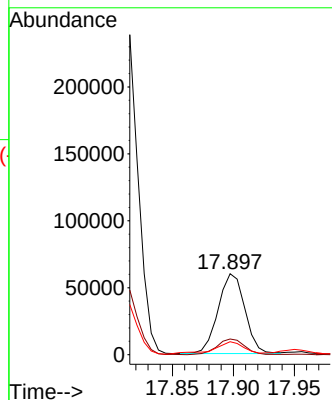
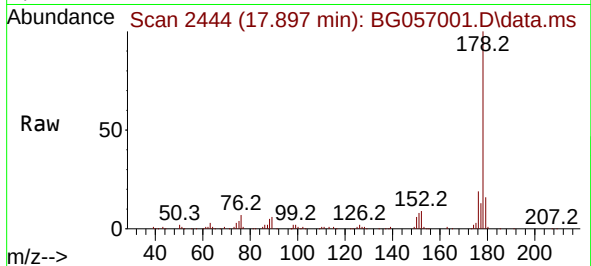




#72
 Anthracene
 Concen: 16.988 ng
 RT: 17.897 min Scan# 2446
 Delta R.T. -0.004 min
 Lab File: BG057001.D
 Acq: 5 Apr 2023 22:04

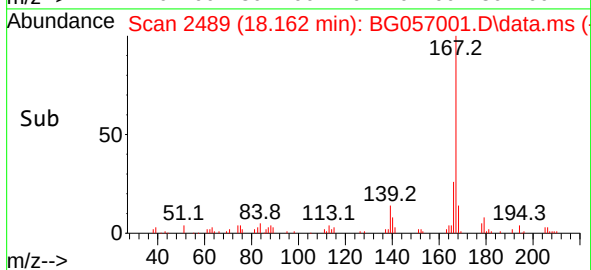
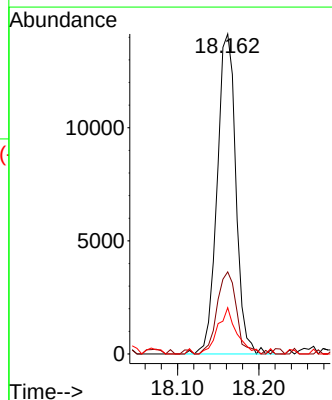
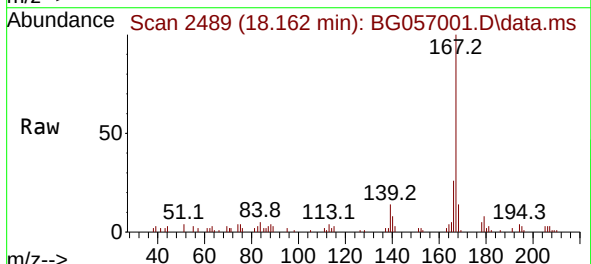
Instrument :
 BNA_G
 ClientSampleId :
 RS-F

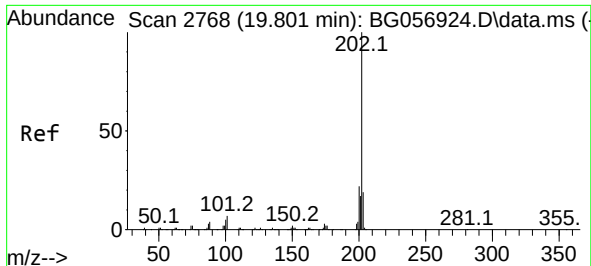
Tgt Ion:178 Resp: 90958
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.4 23.2
 179 16.0 12.4 18.6



#73
 Carbazole
 Concen: 4.855 ng
 RT: 18.162 min Scan# 2489
 Delta R.T. -0.004 min
 Lab File: BG057001.D
 Acq: 5 Apr 2023 22:04

Tgt Ion:167 Resp: 22664
 Ion Ratio Lower Upper
 167 100
 166 25.7 17.9 26.9
 139 14.5 9.5 14.3#

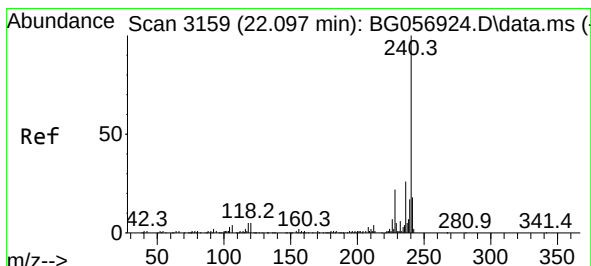
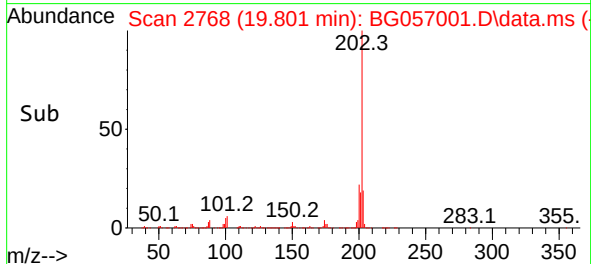
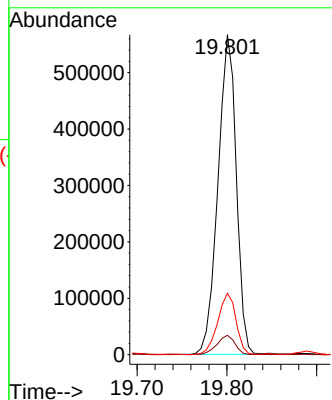
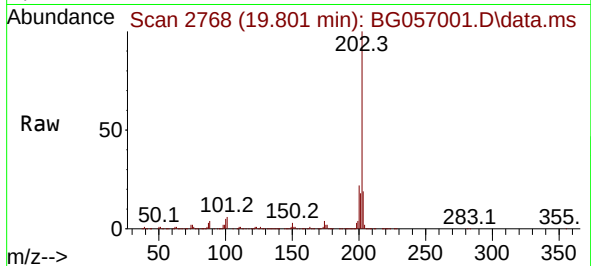




#75
Fluoranthene
Concen: 121.352 ng
RT: 19.801 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

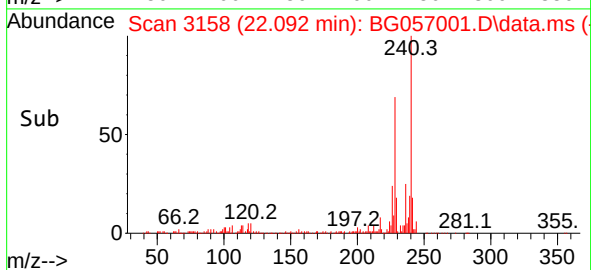
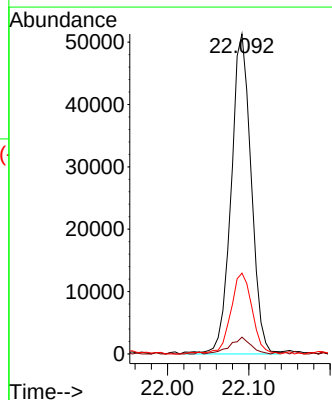
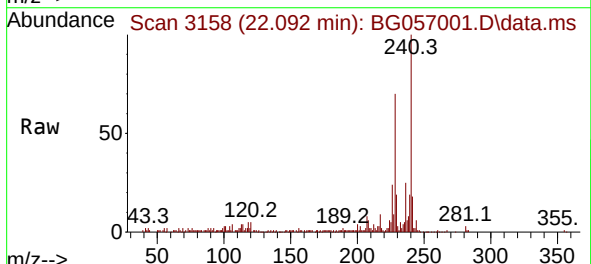
Instrument :
BNA_G
ClientSampleId :
RS-F

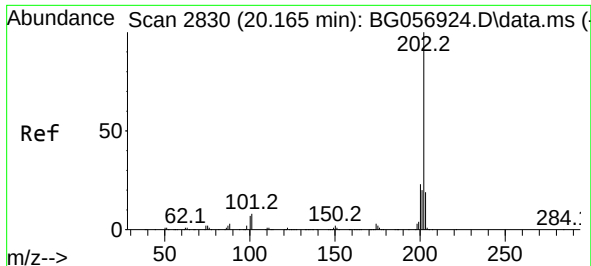
Tgt Ion:202 Resp: 803445
Ion Ratio Lower Upper
202 100
101 6.0 0.0 26.7
203 19.2 0.0 39.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.092 min Scan# 3158
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:240 Resp: 87909
Ion Ratio Lower Upper
240 100
120 5.3 3.8 5.6
236 25.3 21.0 31.6

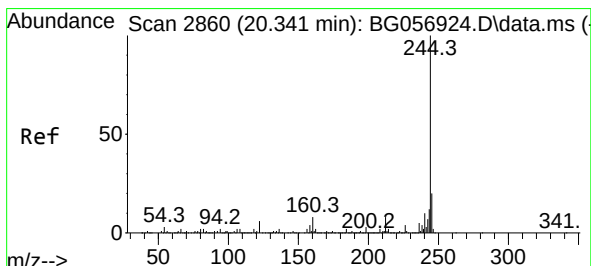
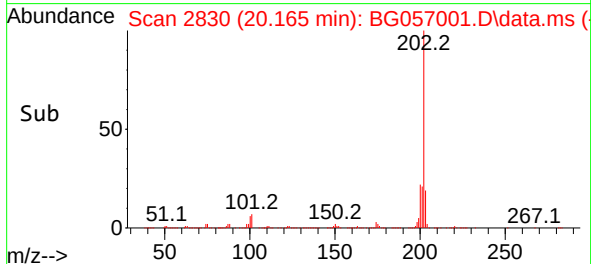
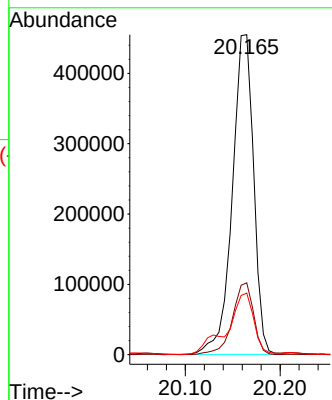
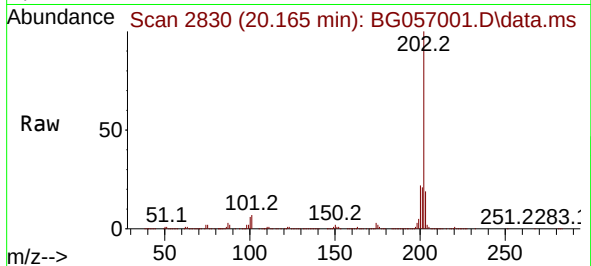




#78
 Pyrene
 Concen: 116.950 ng
 RT: 20.165 min Scan# 2830
 Delta R.T. 0.008 min
 Lab File: BG057001.D
 Acq: 5 Apr 2023 22:04

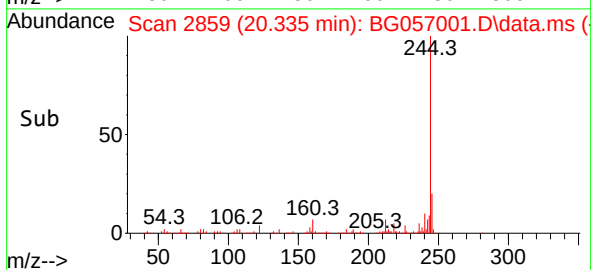
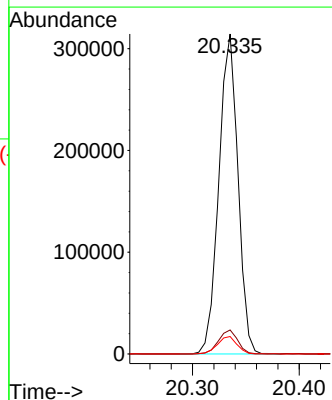
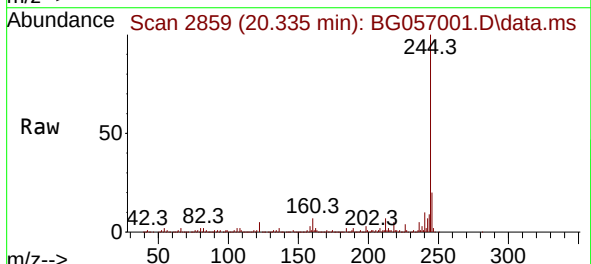
Instrument :
 BNA_G
 ClientSampleId :
 RS-F

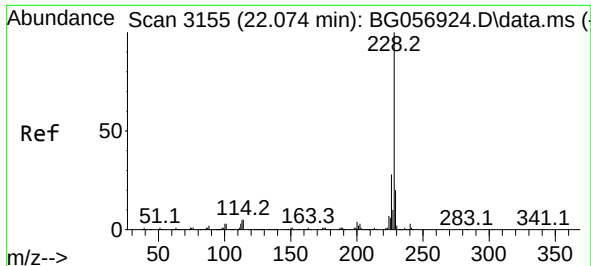
Tgt Ion:202 Resp: 711084
 Ion Ratio Lower Upper
 202 100
 200 22.5 18.7 28.1
 203 19.3 15.4 23.2



#79
 Terphenyl-d14
 Concen: 75.038 ng
 RT: 20.335 min Scan# 2859
 Delta R.T. -0.004 min
 Lab File: BG057001.D
 Acq: 5 Apr 2023 22:04

Tgt Ion:244 Resp: 389828
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.1 9.1
 122 5.4 5.0 7.4

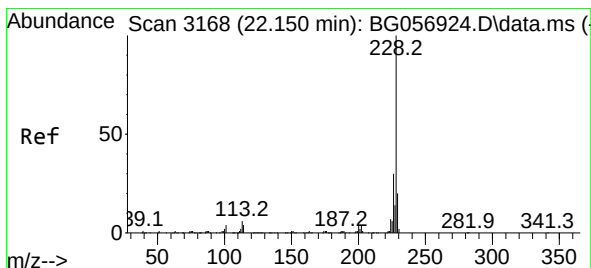
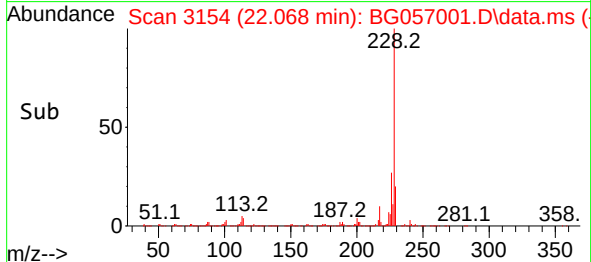
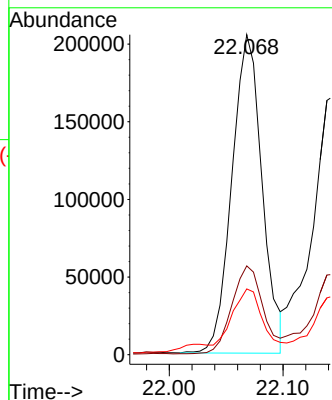
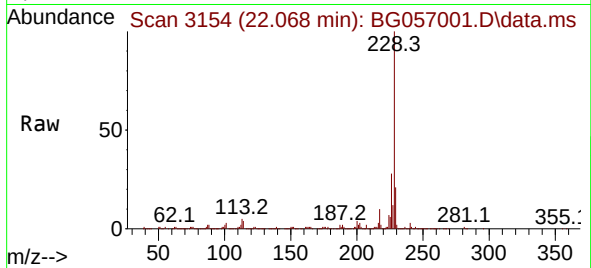




#81
Benzo(a)anthracene
Concen: 62.113 ng
RT: 22.068 min Scan# 3155
Delta R.T. -0.004 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

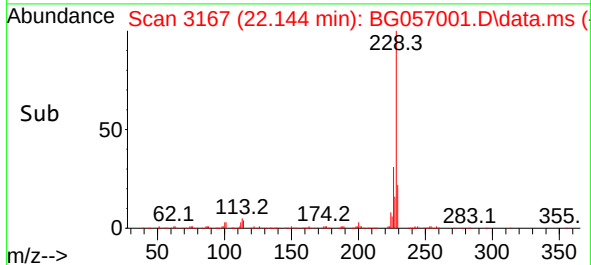
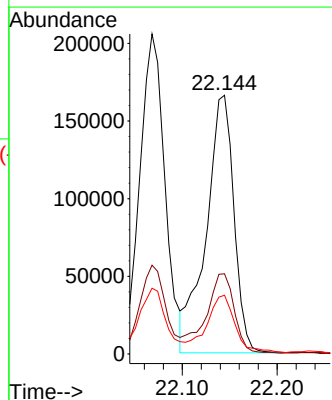
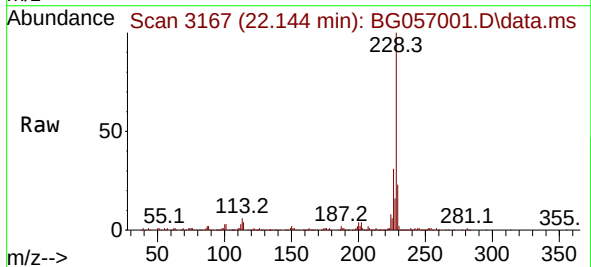
Instrument :
BNA_G
ClientSampleId :
RS-F

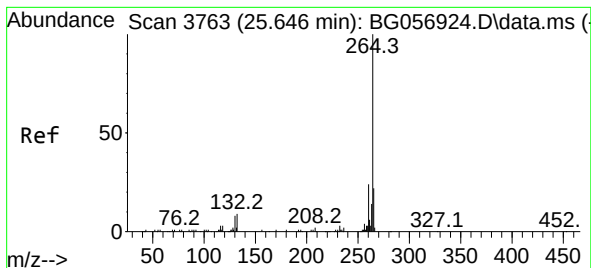
Tgt Ion:228 Resp: 377852
Ion Ratio Lower Upper
228 100
226 27.8 22.1 33.1
229 20.5 16.1 24.1



#83
Chrysene
Concen: 59.560 ng
RT: 22.144 min Scan# 3167
Delta R.T. 0.002 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:228 Resp: 339248
Ion Ratio Lower Upper
228 100
226 31.0 24.1 36.1
229 22.7 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.634 min Scan# 31

Delta R.T. 0.002 min

Lab File: BG057001.D

Acq: 5 Apr 2023 22:04

Instrument :

BNA_G

ClientSampleId :

RS-F

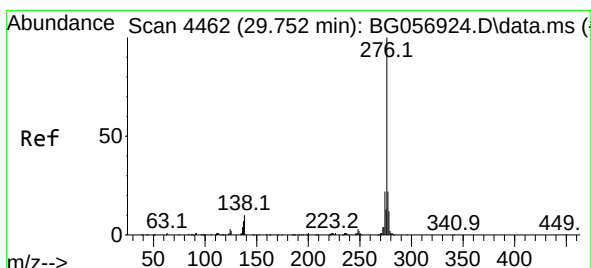
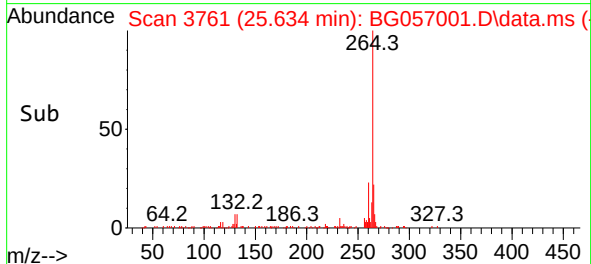
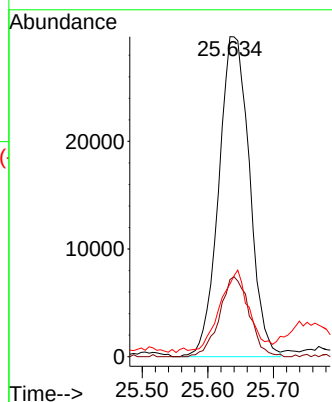
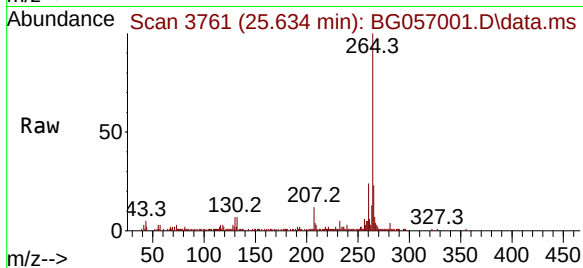
Tgt Ion:264 Resp: 96659

Ion Ratio Lower Upper

264 100

260 24.1 19.0 28.4

265 22.7 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 33.511 ng

RT: 29.746 min Scan# 4461

Delta R.T. 0.008 min

Lab File: BG057001.D

Acq: 5 Apr 2023 22:04

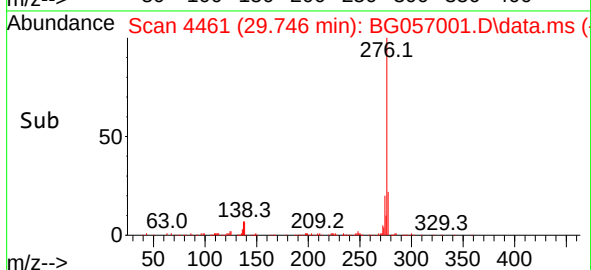
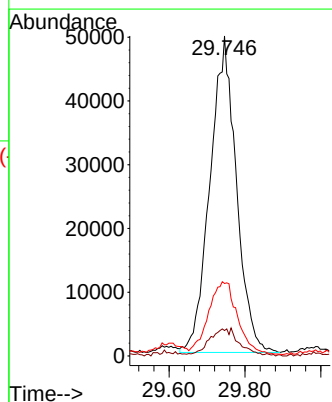
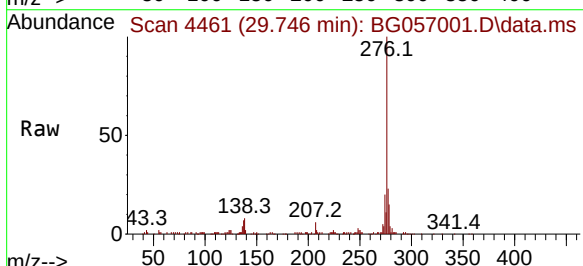
Tgt Ion:276 Resp: 239387

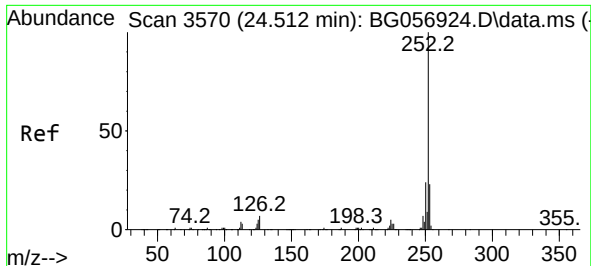
Ion Ratio Lower Upper

276 100

138 0.0 7.7 11.5#

277 25.5 21.0 31.4

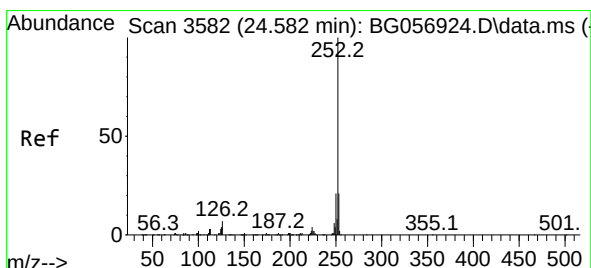
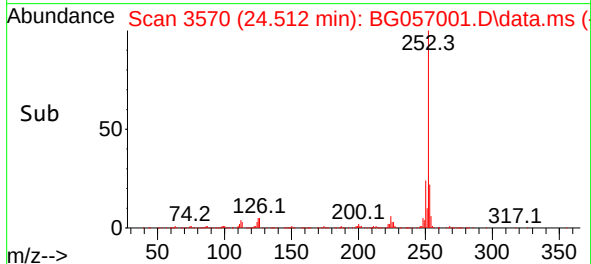
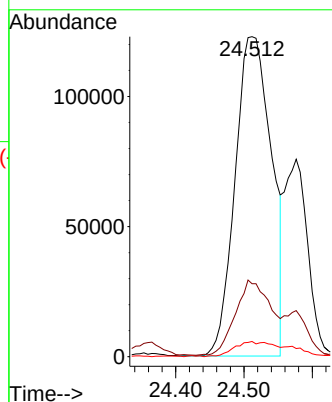
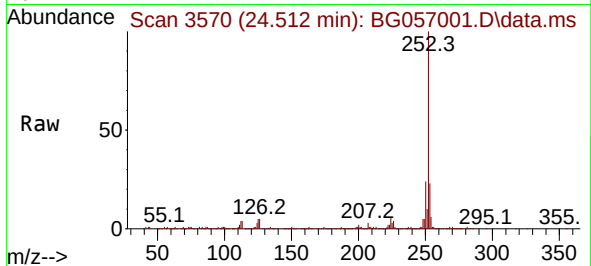




#88
Benzo(b)fluoranthene
Concen: 75.168 ng
RT: 24.512 min Scan# 3570
Delta R.T. 0.008 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

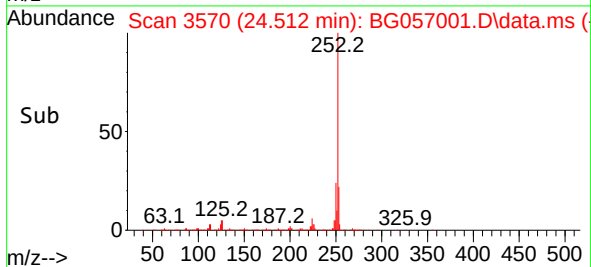
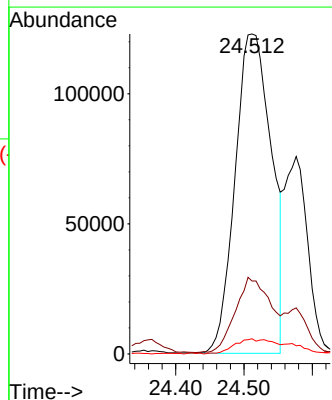
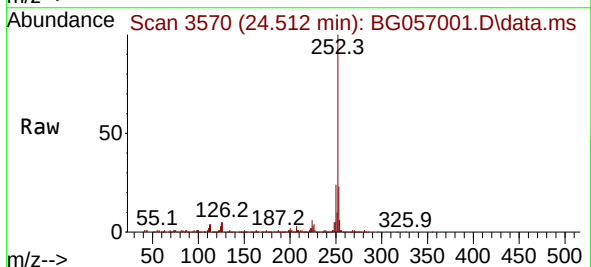
Instrument :
BNA_G
ClientSampleId :
RS-F

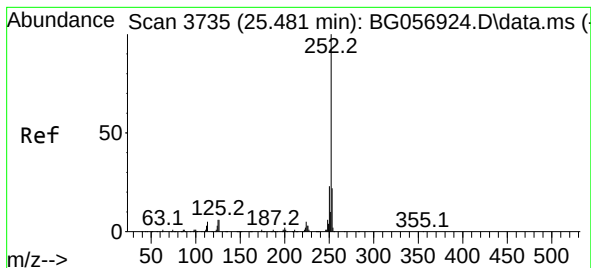
Tgt Ion:252 Resp: 454345
Ion Ratio Lower Upper
252 100
253 22.8 18.1 27.1
125 4.8 4.2 6.4



#89
Benzo(k)fluoranthene
Concen: 75.294 ng
RT: 24.512 min Scan# 3570
Delta R.T. -0.062 min
Lab File: BG057001.D
Acq: 5 Apr 2023 22:04

Tgt Ion:252 Resp: 454345
Ion Ratio Lower Upper
252 100
253 22.8 17.1 25.7
125 4.8 3.8 5.6





#90

Benzo(a)pyrene

Concen: 60.187 ng

RT: 25.475 min Scan# 3

Delta R.T. 0.008 min

Lab File: BG057001.D

Acq: 5 Apr 2023 22:04

Instrument :

BNA_G

ClientSampleId :

RS-F

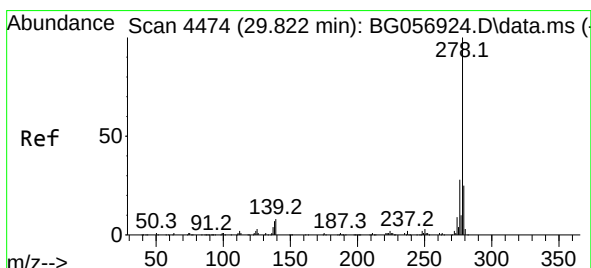
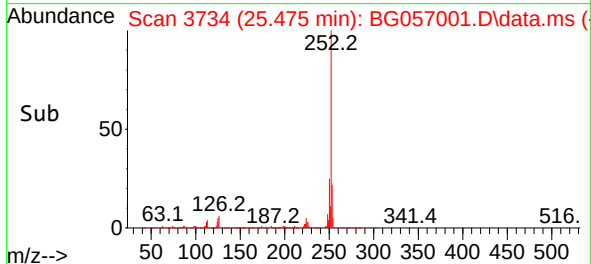
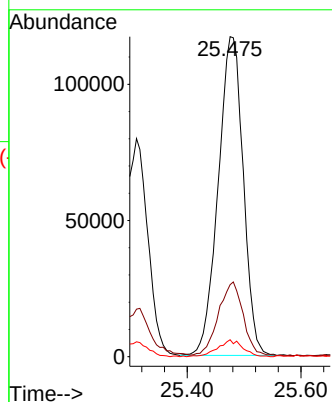
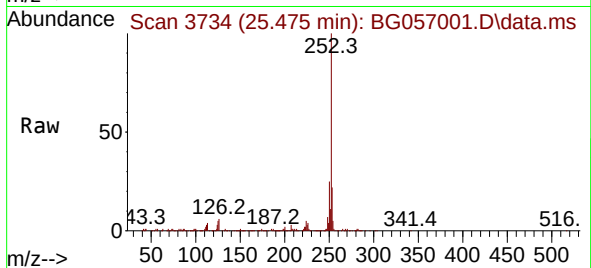
Tgt Ion:252 Resp: 357488

Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

125 5.3 4.5 6.7



#91

Dibenzo(a,h)anthracene

Concen: 7.550 ng

RT: 30.275 min Scan# 4551

Delta R.T. 0.466 min

Lab File: BG057001.D

Acq: 5 Apr 2023 22:04

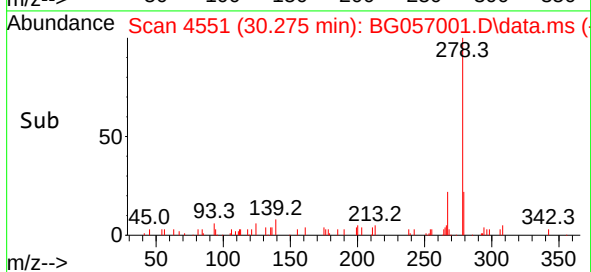
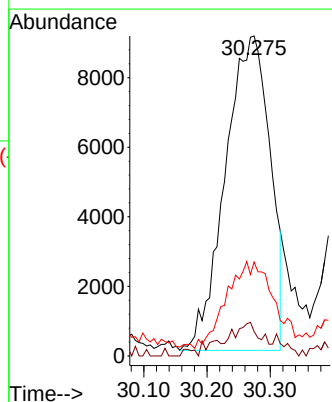
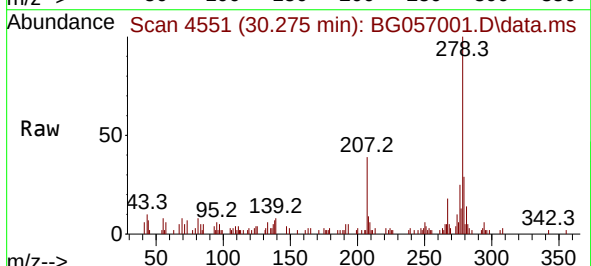
Tgt Ion:278 Resp: 44335

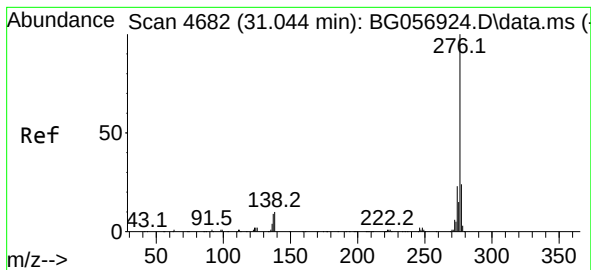
Ion Ratio Lower Upper

278 100

139 7.6 6.4 9.6

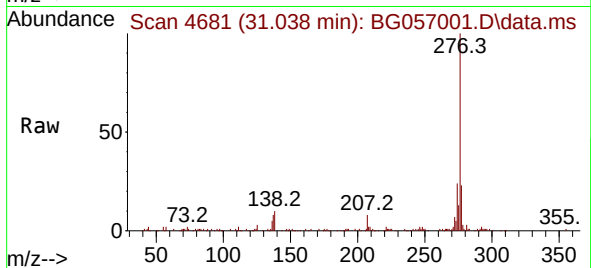
279 29.4 20.2 30.2





#92
 Benzo(g,h,i)perylene
 Concen: 40.749 ng
 RT: 31.038 min Scan# 4
 Delta R.T. 0.008 min
 Lab File: BG057001.D
 Acq: 5 Apr 2023 22:04

Instrument :
 BNA_G
 ClientSampleId :
 RS-F



Tgt Ion:276 Resp: 234292
 Ion Ratio Lower Upper
 276 100
 277 23.4 19.1 28.7
 138 10.0 8.2 12.2

