

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG052523\  
 Data File : BG057576.D  
 Acq On : 26 May 2023 3:27  
 Operator : CG/JU  
 Sample : 02941-03 10X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 GHOST-CLEANFILL-001

Quant Time: May 26 04:05:04 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG042723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 26 02:58:05 2023  
 Response via : Initial Calibration

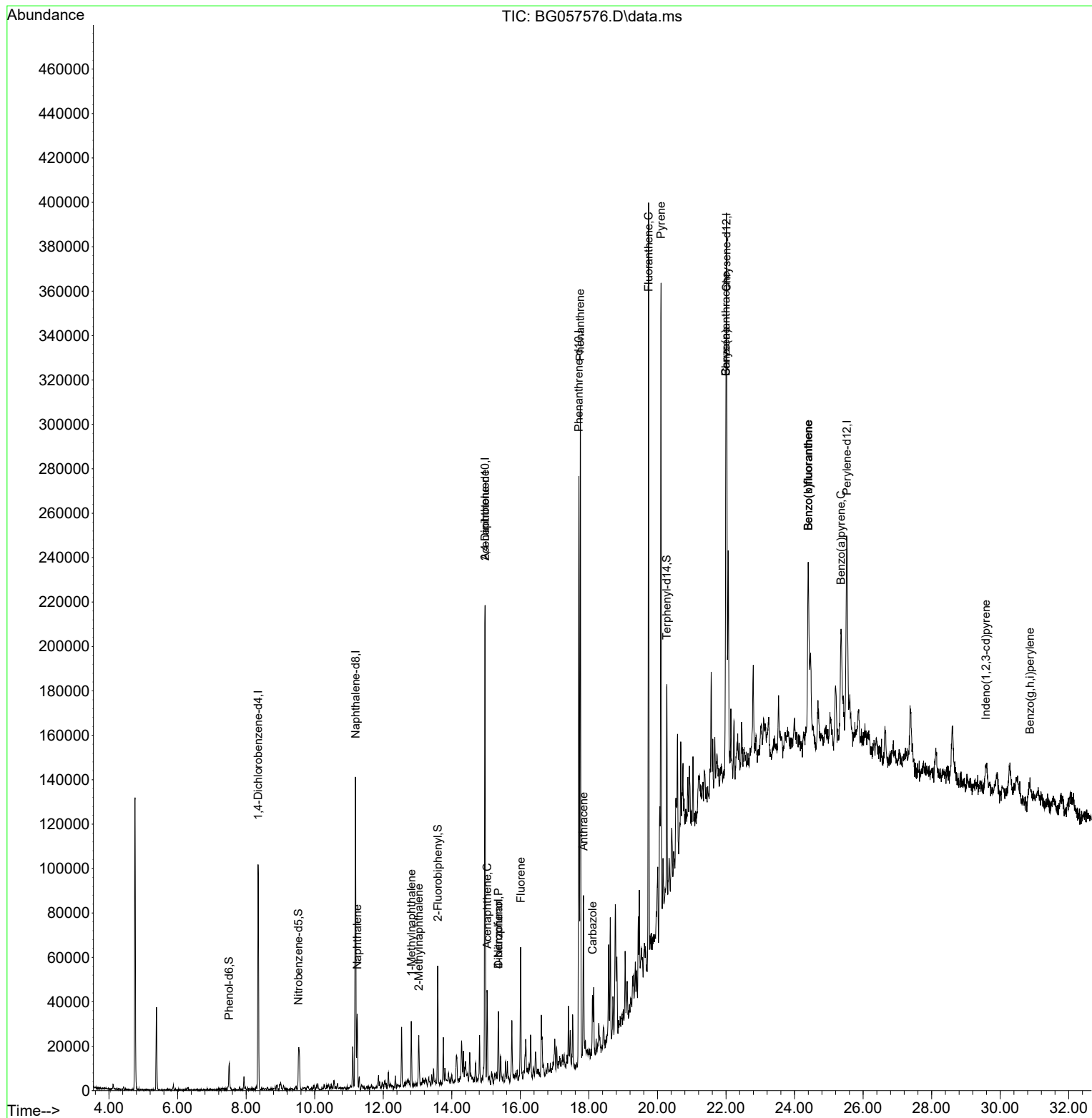
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.350  | 152  | 29407    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.193 | 136  | 116891   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.970 | 164  | 77681    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.708 | 188  | 169795   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 22.014 | 240  | 144740   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 25.526 | 264  | 146796   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.871  | 112  | 1085     | 0.631  | ng    | 0.00     |
| 7) Phenol-d6                | 7.504  | 99   | 8205     | 3.143  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.531  | 82   | 11612    | 4.169  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.456 | 330  | 188      | 0.171  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.590 | 172  | 29064    | 5.039  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.275 | 244  | 43210    | 4.872  | ng    | 0.00     |
| Target Compounds            |        |      |          |        |       |          |
|                             |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 11.240 | 128  | 27694    | 4.432  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 13.038 | 142  | 10417    | 2.120  | ng    | 93       |
| 38) 1-Methylnaphthalene     | 12.820 | 142  | 13640    | 2.945  | ng    | 95       |
| 52) Acenaphthene            | 15.035 | 154  | 14097    | 3.240  | ng    | 92       |
| 55) Dibenzofuran            | 15.364 | 168  | 17499    | 2.393  | ng    | 96       |
| 56) 4-Nitrophenol           | 15.364 | 139  | 6893     | 7.937  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene      | 14.970 | 165  | 10471    | 5.621  | ng    | # 20     |
| 58) Fluorene                | 16.010 | 166  | 26579    | 4.413  | ng    | 95       |
| 71) Phenanthrene            | 17.749 | 178  | 193923   | 22.288 | ng    | 100      |
| 72) Anthracene              | 17.843 | 178  | 50957    | 5.708  | ng    | 99       |
| 73) Carbazole               | 18.113 | 167  | 17070    | 2.271  | ng    | # 93     |
| 75) Fluoranthene            | 19.740 | 202  | 217196   | 20.071 | ng    | 97       |
| 78) Pyrene                  | 20.104 | 202  | 190751   | 18.136 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.996 | 228  | 91125    | 8.837  | ng    | 96       |
| 83) Chrysene                | 21.996 | 228  | 91125    | 9.392  | ng    | 93       |
| 87) Indeno(1,2,3-cd)pyrene  | 29.580 | 276  | 26850    | 2.510  | ng    | # 84     |
| 88) Benzo(b)fluoranthene    | 24.404 | 252  | 96715    | 10.079 | ng    | # 95     |
| 89) Benzo(k)fluoranthene    | 24.404 | 252  | 96715    | 9.918  | ng    | # 95     |
| 90) Benzo(a)pyrene          | 25.356 | 252  | 64813    | 6.913  | ng    | # 90     |
| 92) Benzo(g,h,i)perylene    | 30.872 | 276  | 22308    | 2.564  | ng    | # 89     |

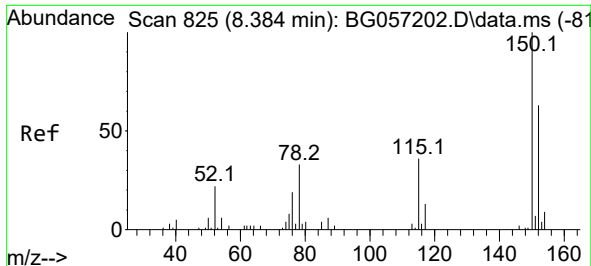
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG042723.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 26 02:58:05 2023  
Response via : Initial Calibration

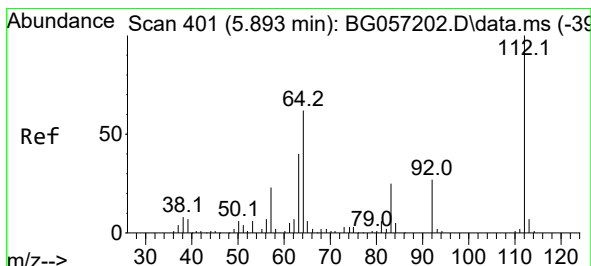
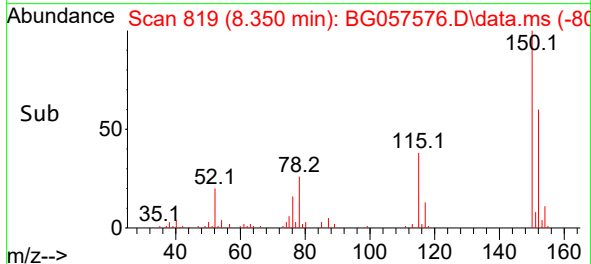
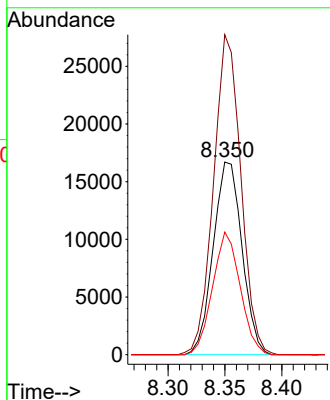
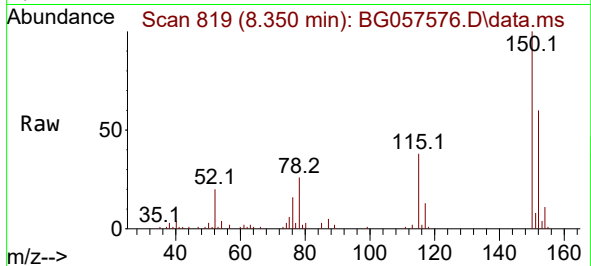




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.350 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

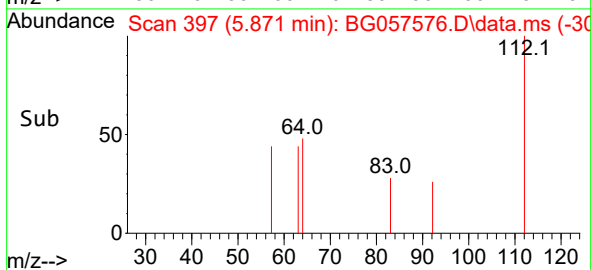
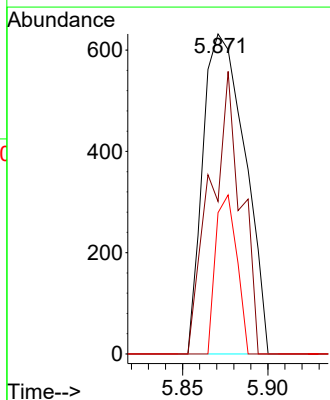
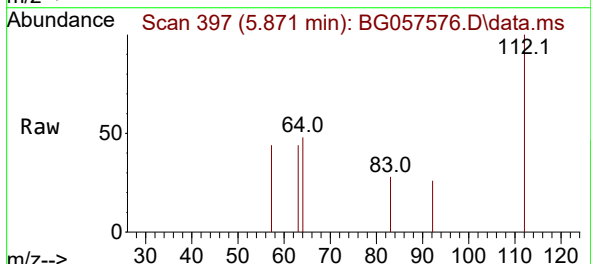
Instrument :  
BNA\_G  
ClientSampleId :  
GHOST-CLEANFILL-001

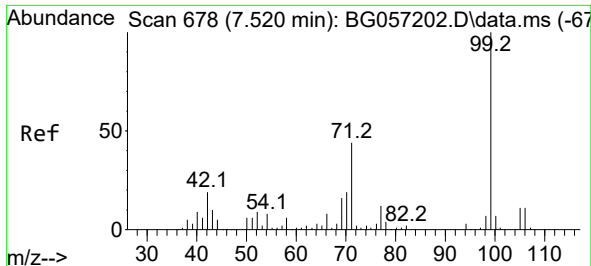
Tgt Ion:152 Resp: 29407  
Ion Ratio Lower Upper  
152 100  
150 166.2 126.2 189.4  
115 63.7 45.0 67.4



#5  
2-Fluorophenol  
Concen: 0.631 ng  
RT: 5.871 min Scan# 397  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

Tgt Ion:112 Resp: 1085  
Ion Ratio Lower Upper  
112 100  
64 47.6 49.4 74.2#  
63 44.1 31.6 47.4

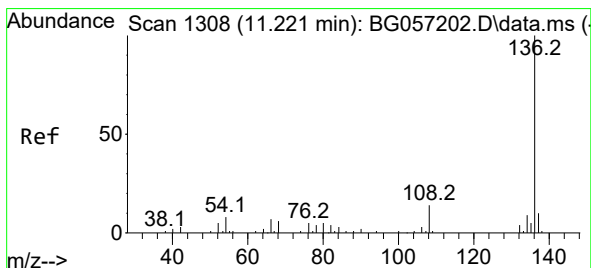
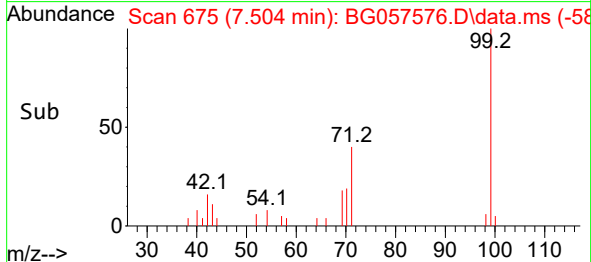
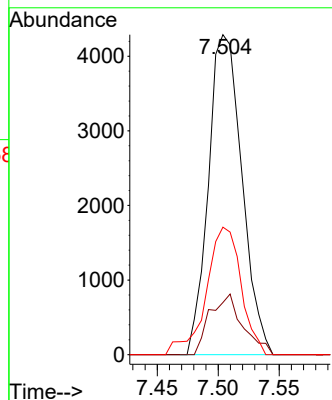
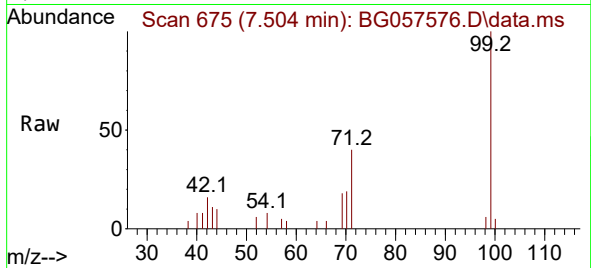




#7  
Phenol-d6  
Concen: 3.143 ng  
RT: 7.504 min Scan# 61  
Delta R.T. 0.004 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

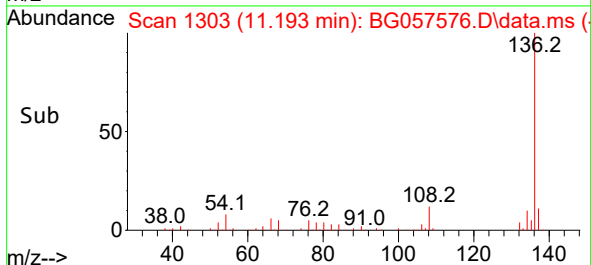
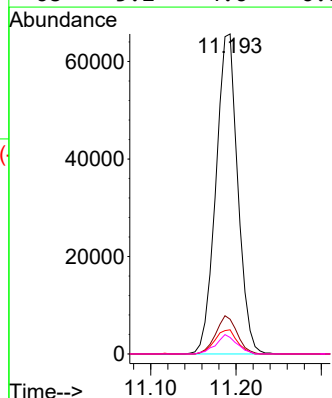
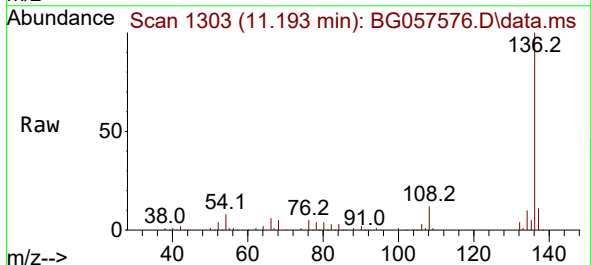
Instrument :  
BNA\_G  
ClientSampleId :  
GHOST-CLEANFILL-001

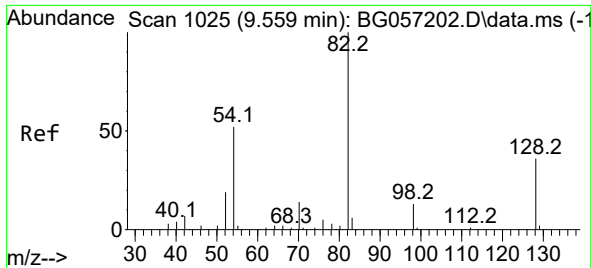
Tgt Ion: 99 Resp: 8205  
Ion Ratio Lower Upper  
99 100  
42 16.3 15.1 22.7  
71 39.8 35.2 52.8



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.193 min Scan# 1303  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

Tgt Ion: 136 Resp: 116891  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.3 12.5  
54 7.5 6.7 10.1  
68 5.2 4.6 6.8

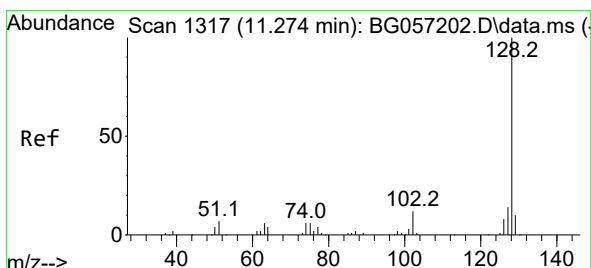
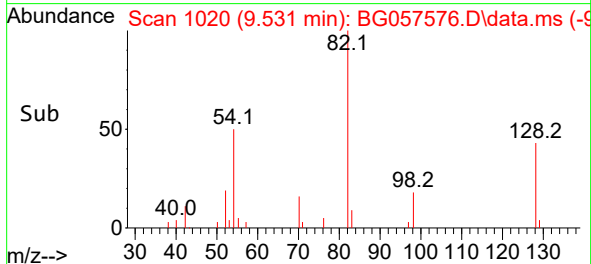
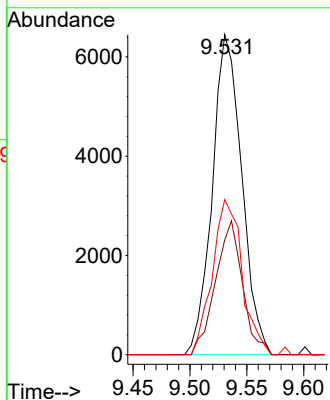
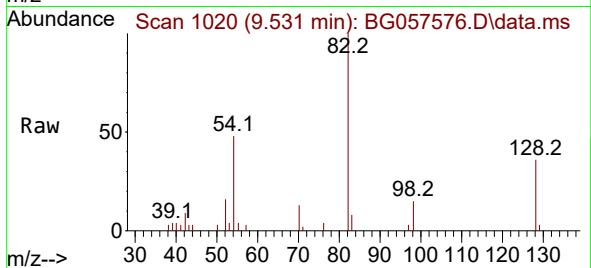




#23  
Nitrobenzene-d5  
Concen: 4.169 ng  
RT: 9.531 min Scan# 1020  
Delta R.T. -0.007 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

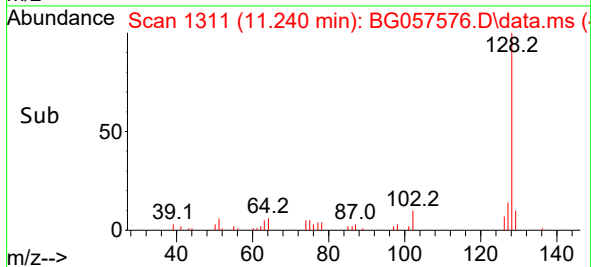
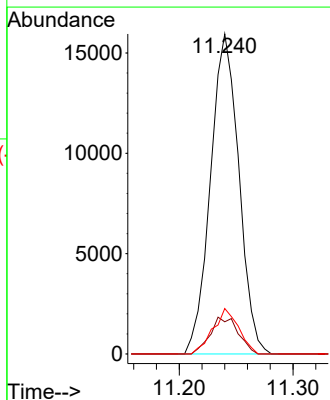
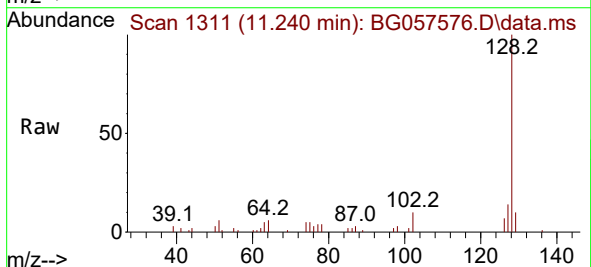
Instrument :  
BNA\_G  
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GHOST-CLEANFILL-001

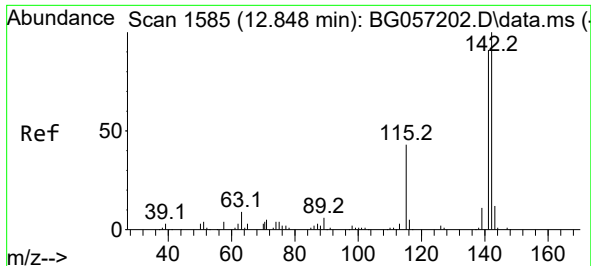
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 11612 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 35.9  | 29.0  | 43.4  |
| 54       | 48.4  | 41.4  | 62.0  |



#31  
Naphthalene  
Concen: 4.432 ng  
RT: 11.240 min Scan# 1311  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 27694 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 10.1  | 8.3   | 12.5  |
| 127      | 14.2  | 11.1  | 16.7  |





#37

2-Methylnaphthalene

Concen: 2.120 ng

RT: 13.038 min Scan# 1

Delta R.T. 0.216 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

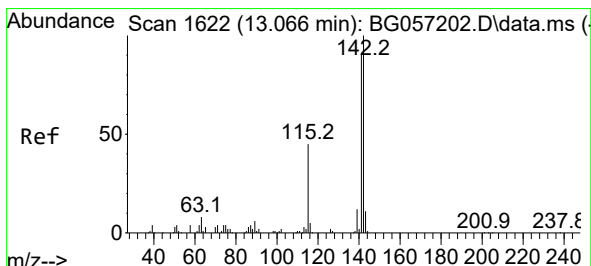
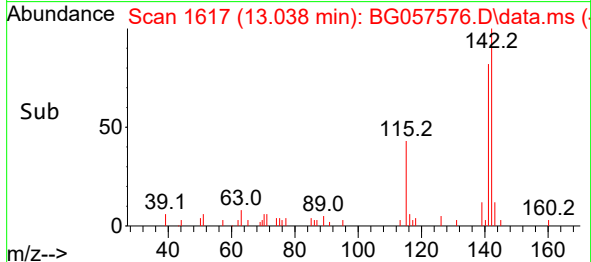
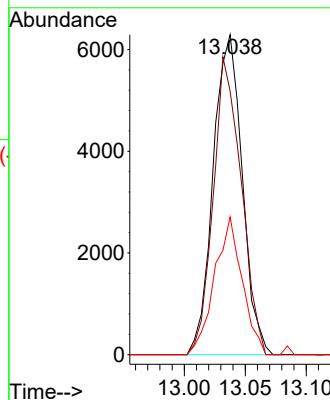
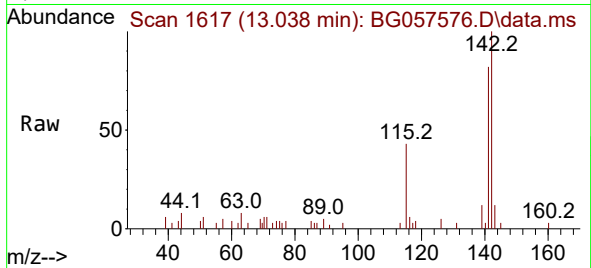
Instrument :

BNA\_G

ClientSampleId :

GHOST-CLEANFILL-001

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 10417      |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 82.4  | 73.1 109.7 |
| 115         | 43.1  | 34.6 52.0  |



#38

1-Methylnaphthalene

Concen: 2.945 ng

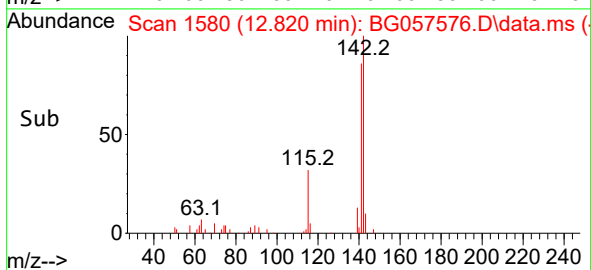
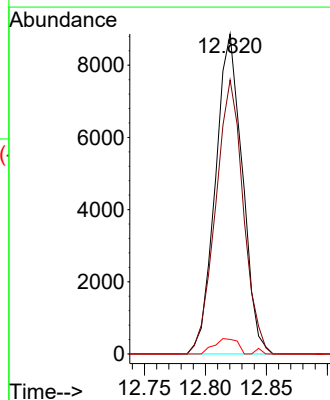
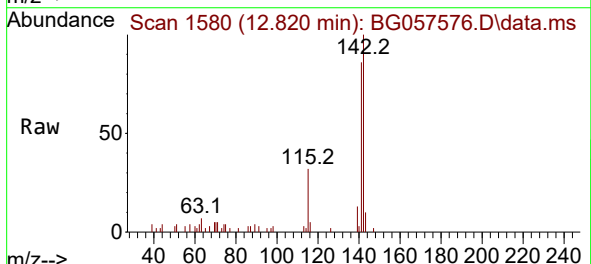
RT: 12.820 min Scan# 1580

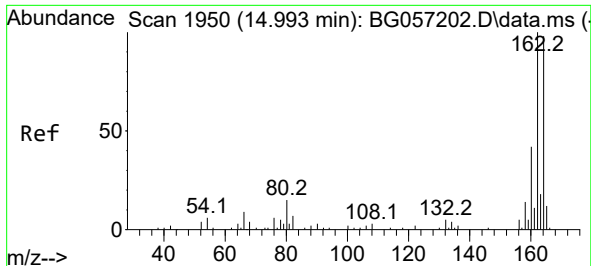
Delta R.T. -0.219 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

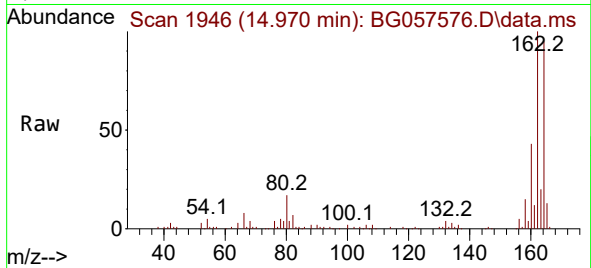
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 13640      |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 85.7  | 72.5 108.7 |
| 116         | 4.6   | 3.7 5.5    |



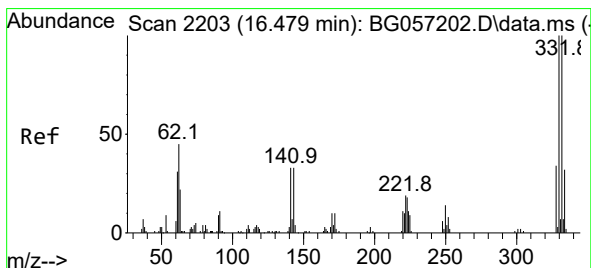
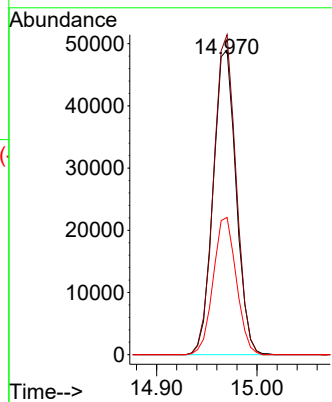
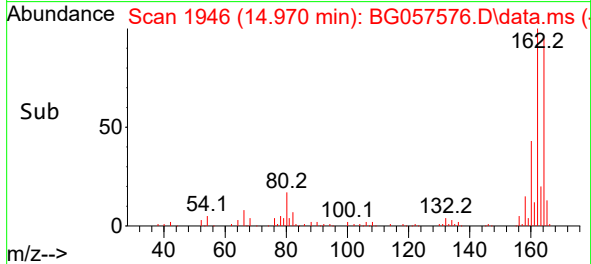


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.970 min Scan# 1946  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

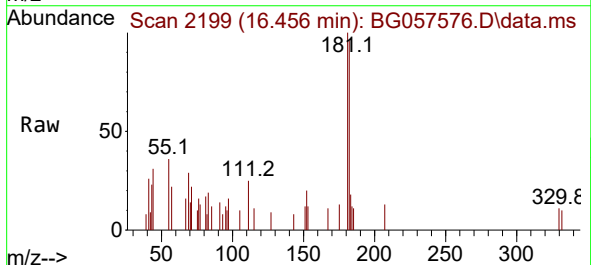
Instrument :  
BNA\_G  
ClientSampleId :  
GHOST-CLEANFILL-001



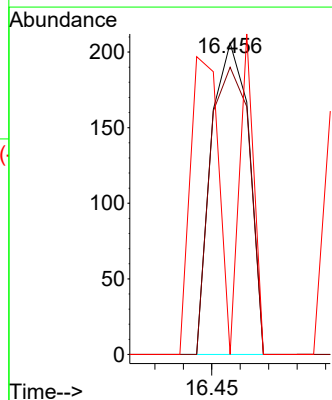
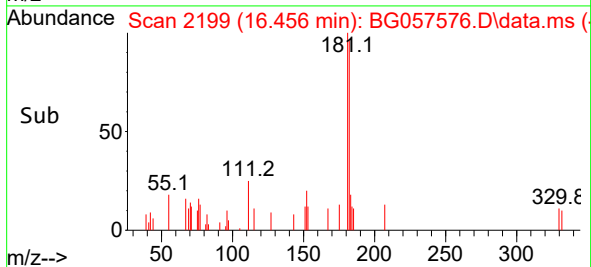
Tgt Ion:164 Resp: 77681  
Ion Ratio Lower Upper  
164 100  
162 105.0 81.8 122.6  
160 45.0 34.6 52.0

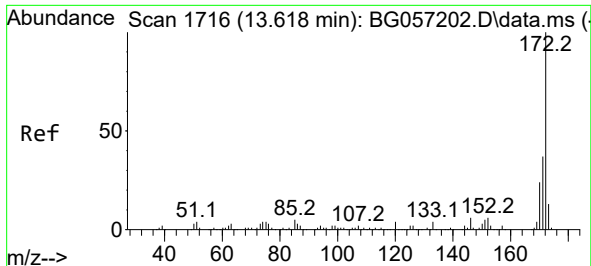


#42  
2,4,6-Tribromophenol  
Concen: 0.171 ng  
RT: 16.456 min Scan# 2199  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27



Tgt Ion:330 Resp: 188  
Ion Ratio Lower Upper  
330 100  
332 96.3 78.2 117.2  
141 71.8 27.8 41.8#

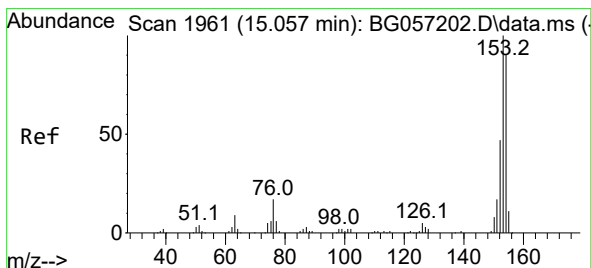
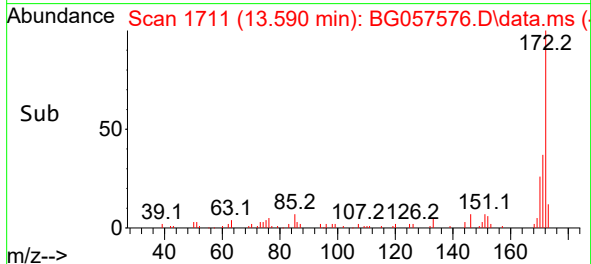
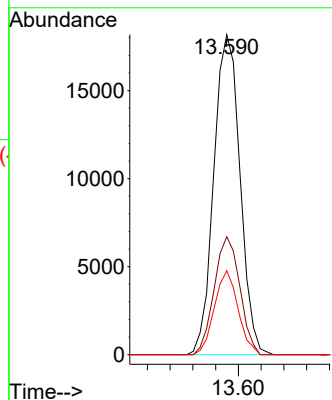
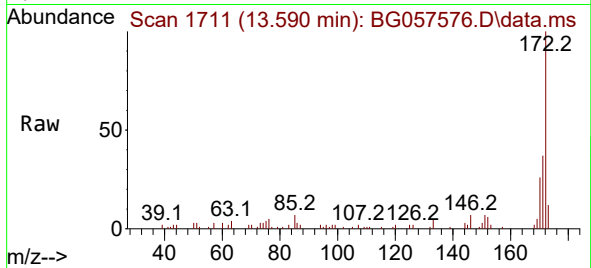




#45  
2-Fluorobiphenyl  
Concen: 5.039 ng  
RT: 13.590 min Scan# 1  
Delta R.T. -0.007 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

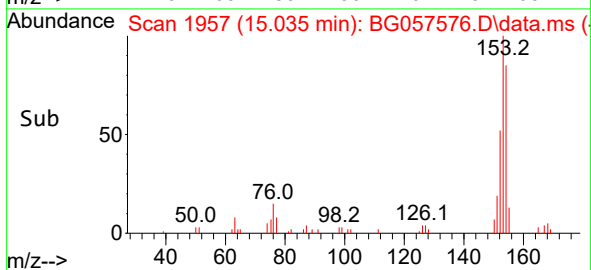
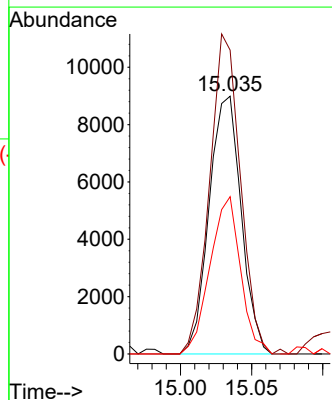
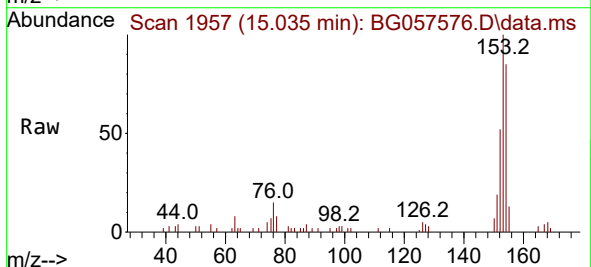
Instrument :  
BNA\_G  
ClientSampleId :  
GHOST-CLEANFILL-001

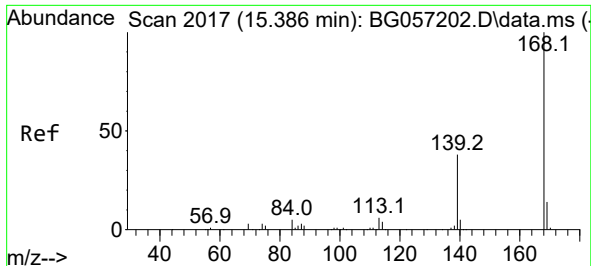
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Ion Ratio Lower Upper  
172 100  
171 36.9 29.4 44.0  
170 26.3 19.0 28.6



#52  
Acenaphthene  
Concen: 3.240 ng  
RT: 15.035 min Scan# 1957  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

Tgt Ion:154 Resp: 14097  
Ion Ratio Lower Upper  
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153 117.9 89.3 133.9  
152 61.0 41.7 62.5

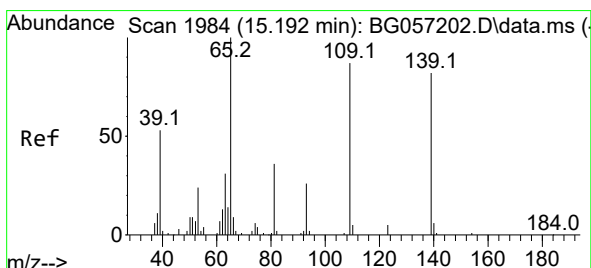
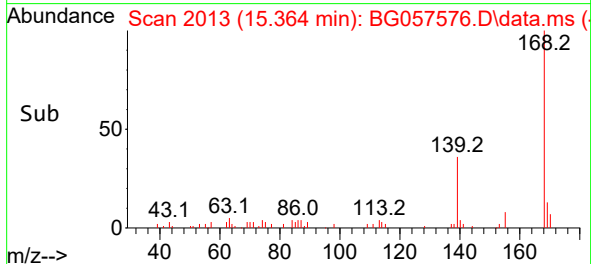
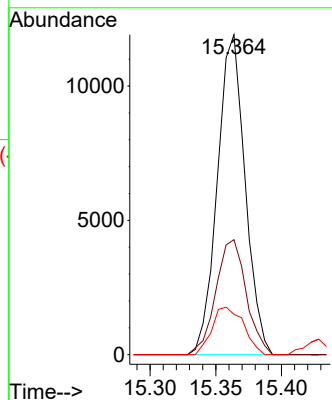
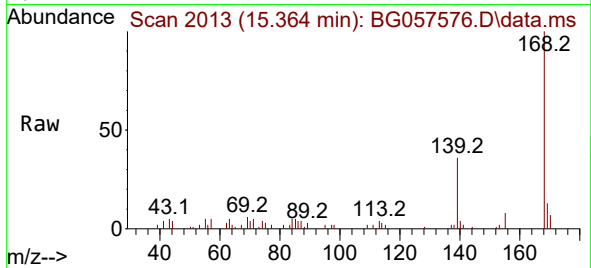




#55  
Dibenzenofuran  
Concen: 2.393 ng  
RT: 15.364 min Scan# 2013  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

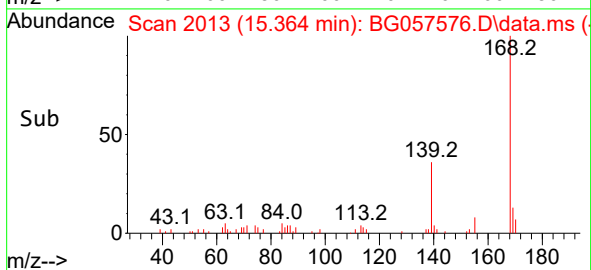
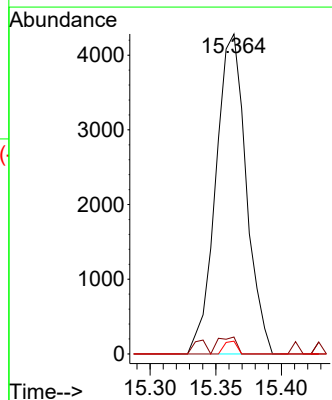
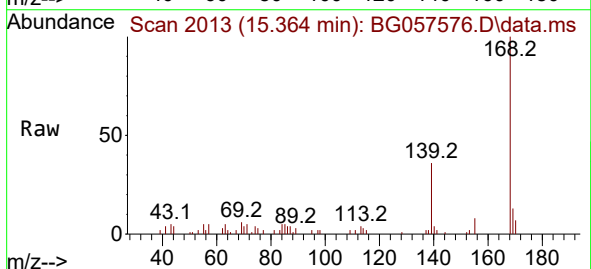
Instrument :  
BNA\_G  
ClientSampleId :  
GHOST-CLEANFILL-001

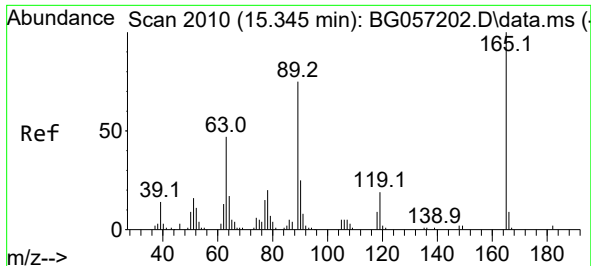
Tgt Ion:168 Resp: 17499  
Ion Ratio Lower Upper  
168 100  
139 36.0 30.7 46.1  
169 12.6 10.9 16.3



#56  
4-Nitrophenol  
Concen: 7.937 ng  
RT: 15.364 min Scan# 2013  
Delta R.T. 0.175 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

Tgt Ion:139 Resp: 6893  
Ion Ratio Lower Upper  
139 100  
109 5.3 86.6 126.6#  
65 4.0 102.6 142.6#





#57

2,4-Dinitrotoluene

Concen: 5.621 ng

RT: 14.970 min Scan# 1946

Delta R.T. -0.360 min

Lab File: BG057576.D

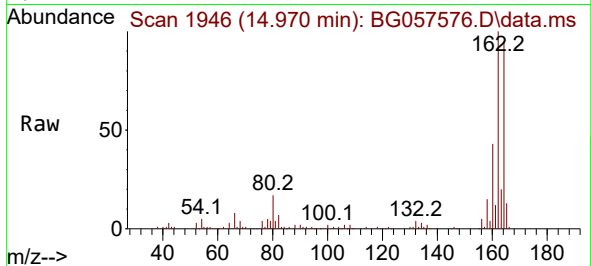
Acq: 26 May 2023 3:27

Instrument :

BNA\_G

ClientSampleId :

GHOST-CLEANFILL-001



Tgt Ion:165 Resp: 10471

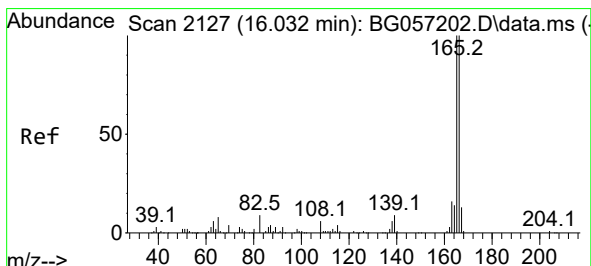
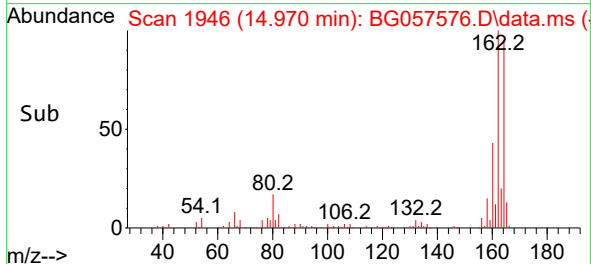
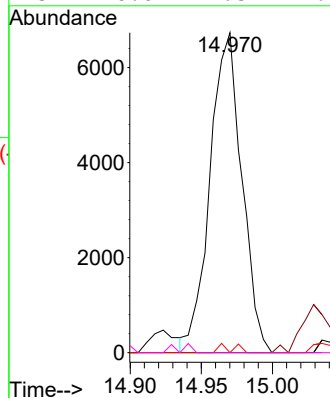
Ion Ratio Lower Upper

165 100

63 0.0 37.5 56.3#

89 0.0 60.2 90.4#

182 0.0 1.8 2.8#



#58

Fluorene

Concen: 4.413 ng

RT: 16.010 min Scan# 2123

Delta R.T. -0.002 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

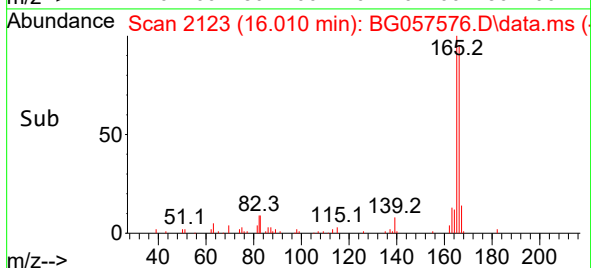
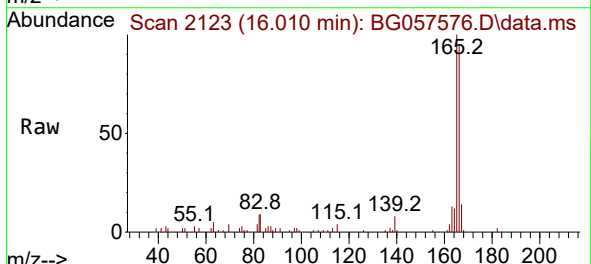
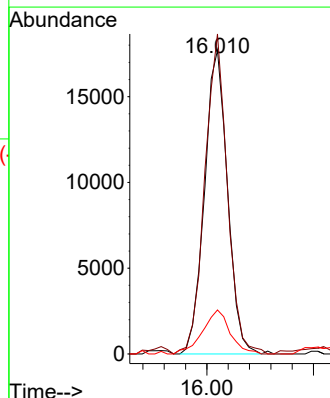
Tgt Ion:166 Resp: 26579

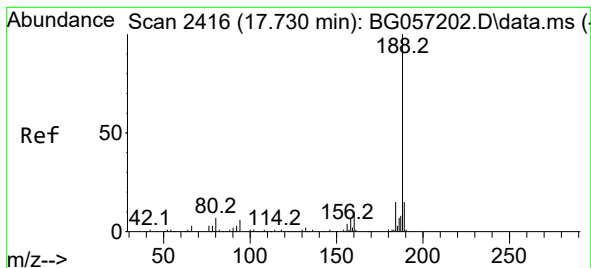
Ion Ratio Lower Upper

166 100

165 105.3 80.1 120.1

167 14.5 10.2 15.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.708 min Scan# 2416

Delta R.T. -0.002 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

Instrument :

BNA\_G

ClientSampleId :

GHOST-CLEANFILL-001

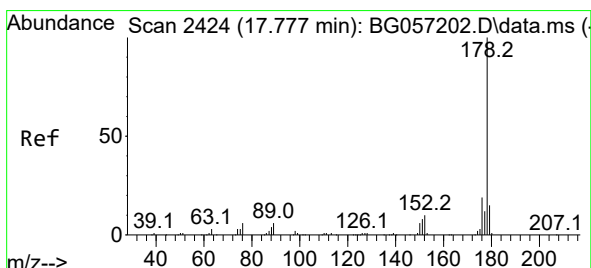
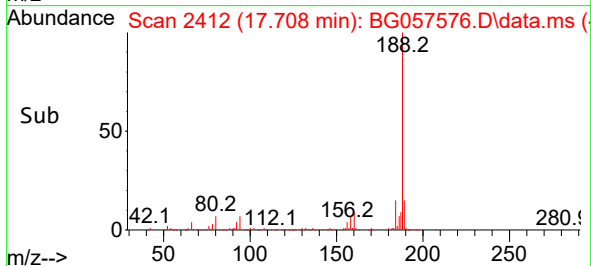
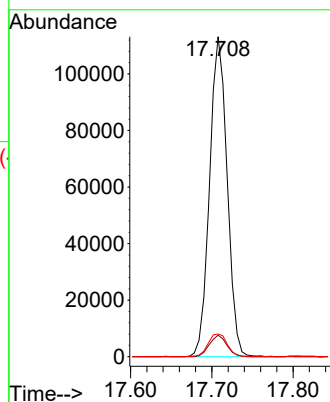
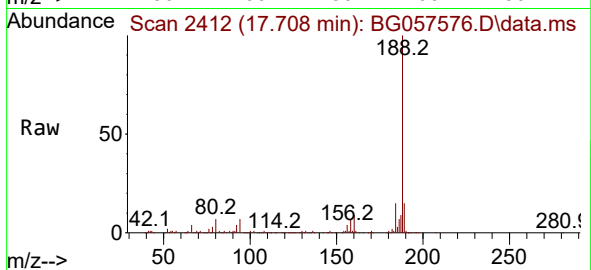
Tgt Ion:188 Resp: 169795

Ion Ratio Lower Upper

188 100

94 6.7 5.1 7.7

80 7.1 5.7 8.5



#71

Phenanthrene

Concen: 22.288 ng

RT: 17.749 min Scan# 2419

Delta R.T. -0.007 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

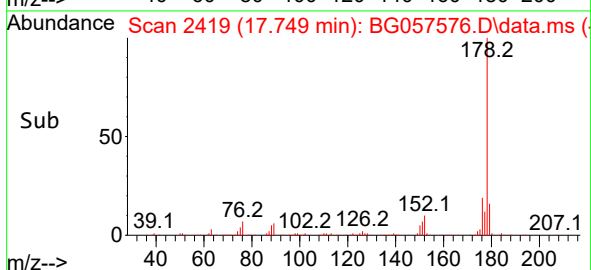
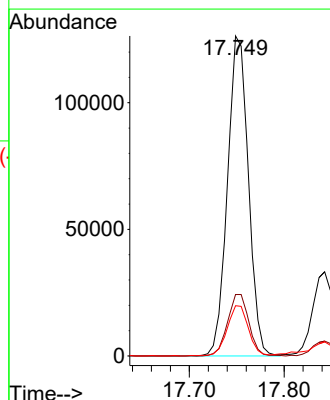
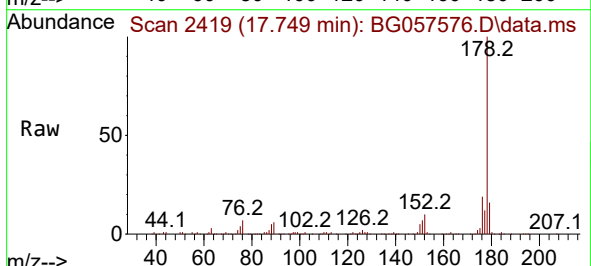
Tgt Ion:178 Resp: 193923

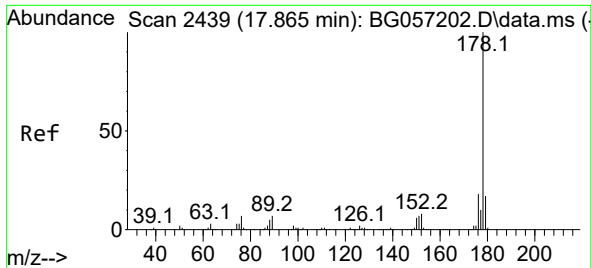
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.7 12.3 18.5

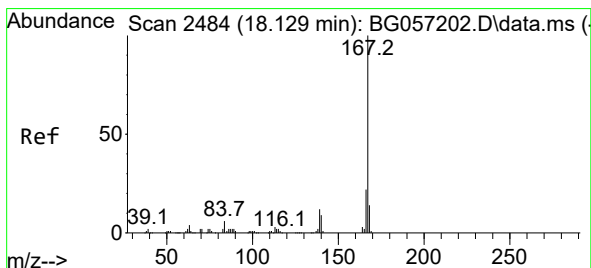
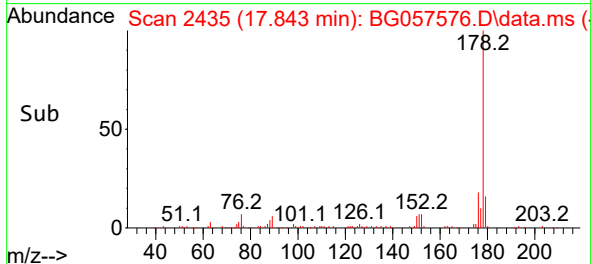
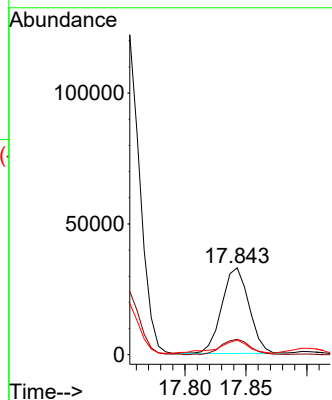
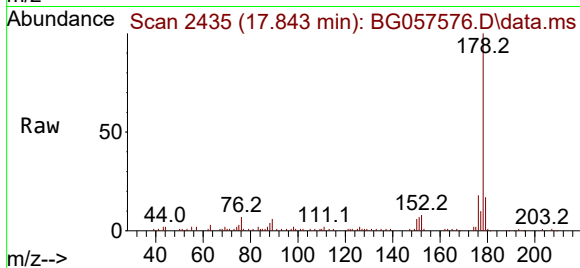




#72  
 Anthracene  
 Concen: 5.708 ng  
 RT: 17.843 min Scan# 2439  
 Delta R.T. -0.002 min  
 Lab File: BG057576.D  
 Acq: 26 May 2023 3:27

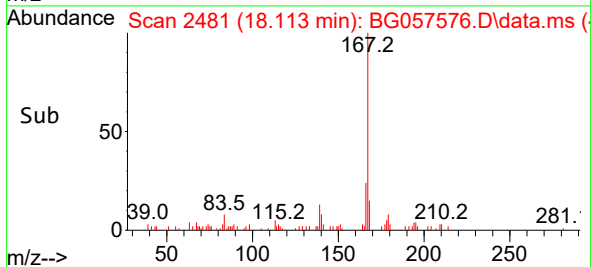
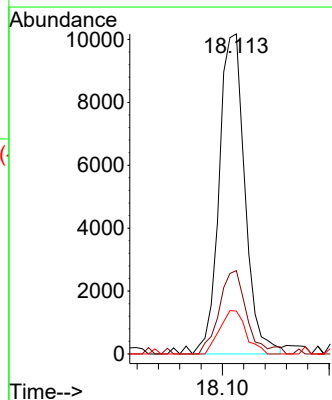
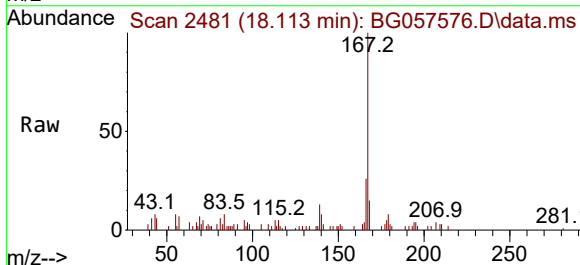
Instrument :  
 BNA\_G  
 ClientSampleId :  
 GHOST-CLEANFILL-001

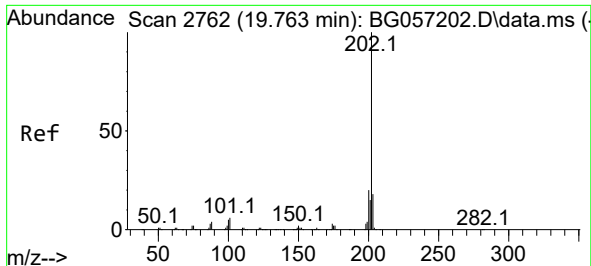
Tgt Ion:178 Resp: 50957  
 Ion Ratio Lower Upper  
 178 100  
 176 17.6 14.7 22.1  
 179 16.7 13.2 19.8



#73  
 Carbazole  
 Concen: 2.271 ng  
 RT: 18.113 min Scan# 2481  
 Delta R.T. -0.002 min  
 Lab File: BG057576.D  
 Acq: 26 May 2023 3:27

Tgt Ion:167 Resp: 17070  
 Ion Ratio Lower Upper  
 167 100  
 166 26.1 17.4 26.0#  
 139 13.4 9.6 14.4

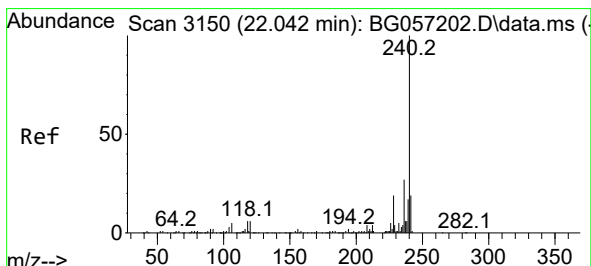
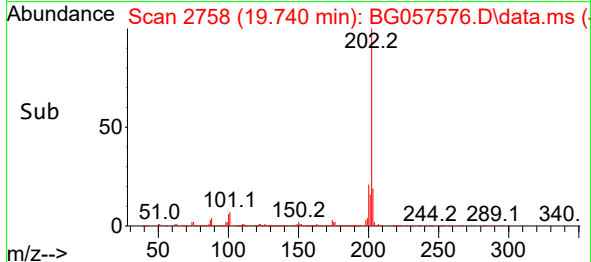
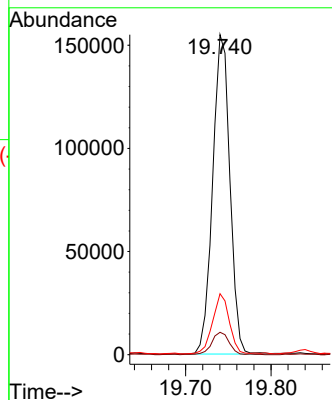
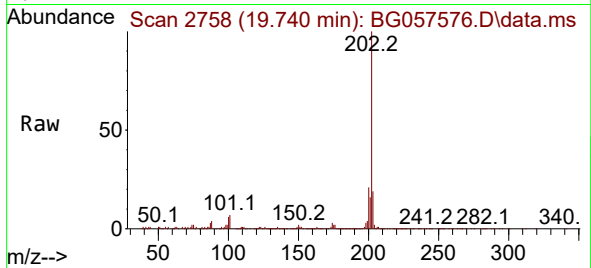




#75  
Fluoranthene  
Concen: 20.071 ng  
RT: 19.740 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

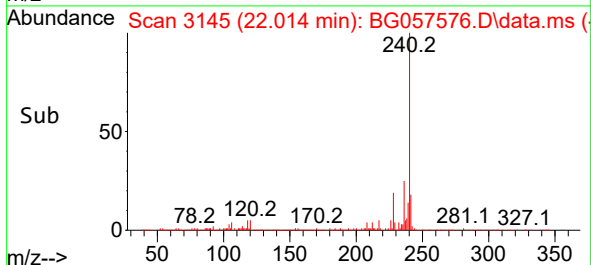
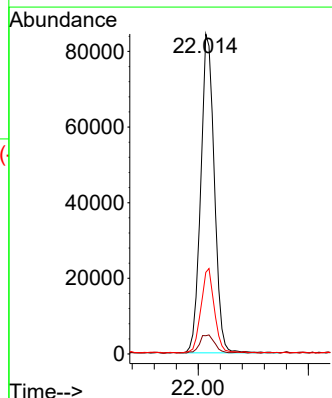
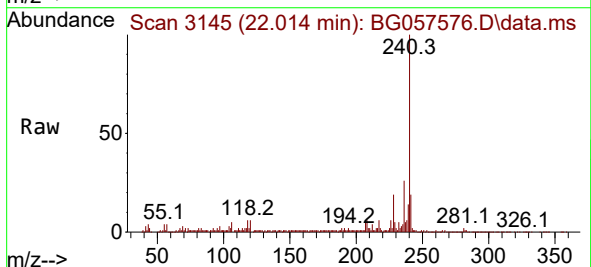
Instrument :  
BNA\_G  
ClientSampleId :  
GHOST-CLEANFILL-001

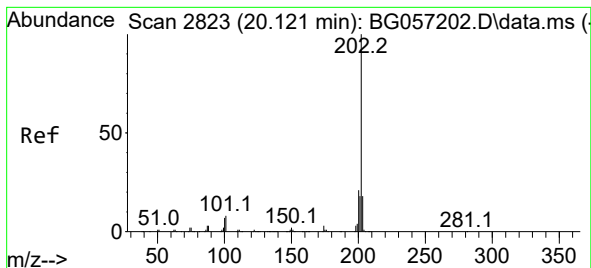
Tgt Ion:202 Resp: 217196  
Ion Ratio Lower Upper  
202 100  
101 7.0 0.0 26.2  
203 19.0 0.0 37.9



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.014 min Scan# 3145  
Delta R.T. -0.007 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

Tgt Ion:240 Resp: 144740  
Ion Ratio Lower Upper  
240 100  
120 5.7 4.9 7.3  
236 25.5 21.4 32.2





#78

Pyrene

Concen: 18.136 ng

RT: 20.104 min Scan# 21

Delta R.T. -0.002 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

Instrument :

BNA\_G

ClientSampleId :

GHOST-CLEANFILL-001

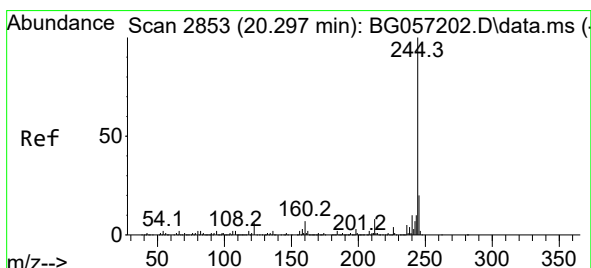
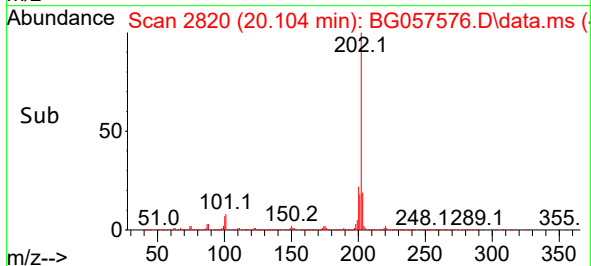
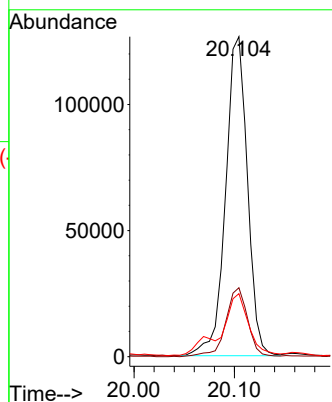
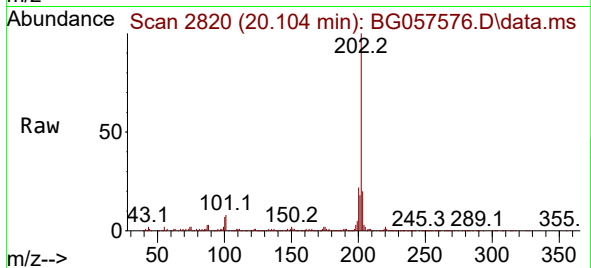
Tgt Ion:202 Resp: 190751

Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.4

203 19.7 14.2 21.4



#79

Terphenyl-d14

Concen: 4.872 ng

RT: 20.275 min Scan# 2849

Delta R.T. -0.002 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

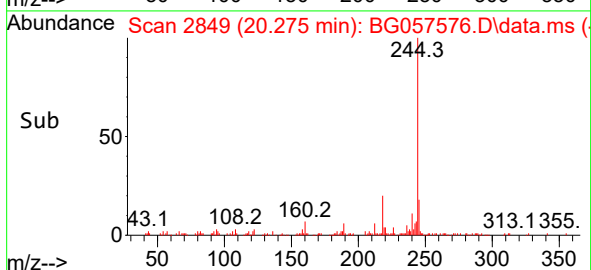
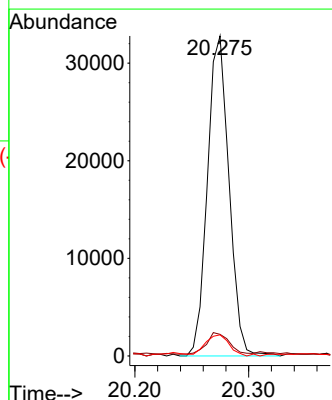
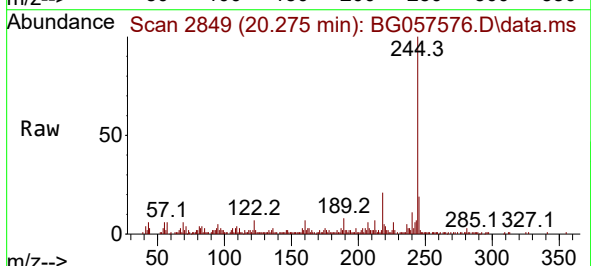
Tgt Ion:244 Resp: 43210

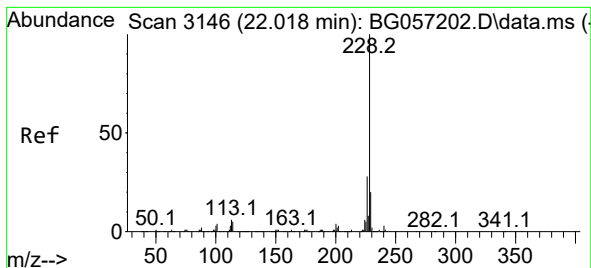
Ion Ratio Lower Upper

244 100

212 6.8 6.1 9.1

122 6.6 5.1 7.7





#81

Benzo(a)anthracene

Concen: 8.837 ng

RT: 21.996 min Scan# 3142

Delta R.T. -0.002 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

Instrument :

BNA\_G

ClientSampleId :

GHOST-CLEANFILL-001

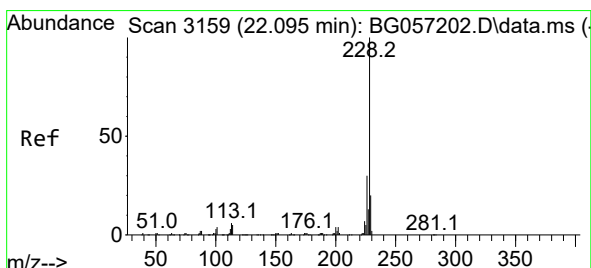
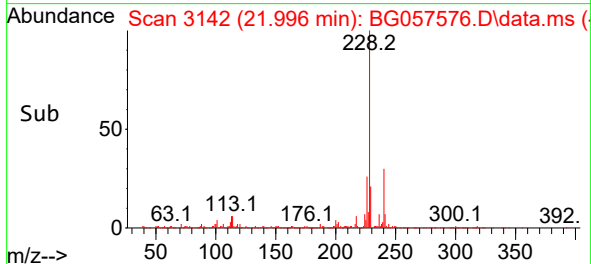
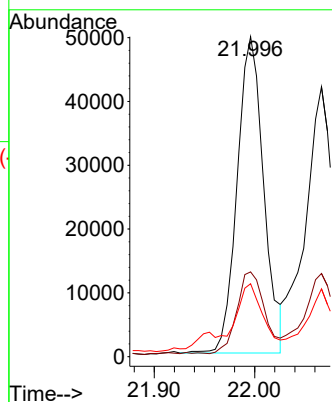
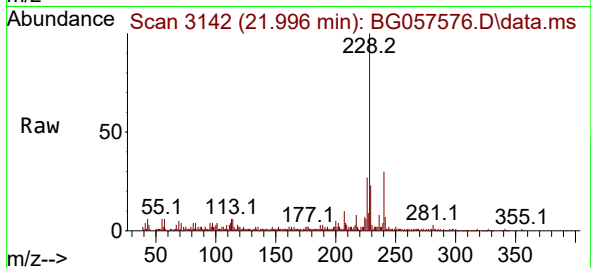
Tgt Ion:228 Resp: 91125

Ion Ratio Lower Upper

228 100

226 26.5 22.0 33.0

229 22.8 15.8 23.8



#83

Chrysene

Concen: 9.392 ng

RT: 21.996 min Scan# 3142

Delta R.T. -0.072 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

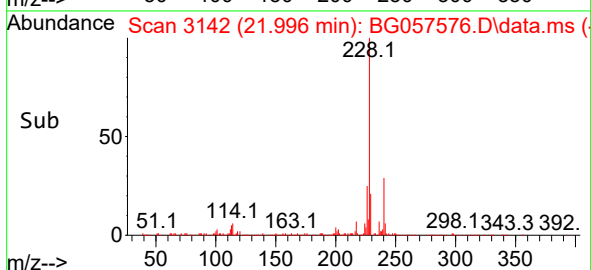
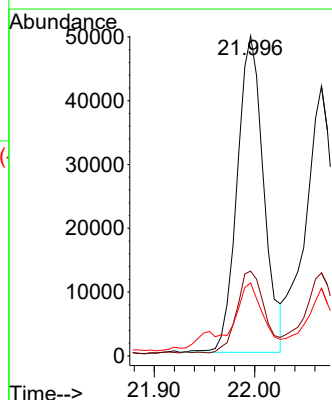
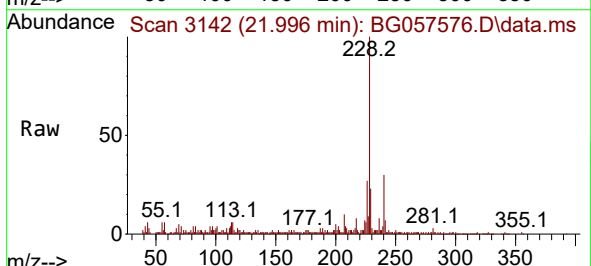
Tgt Ion:228 Resp: 91125

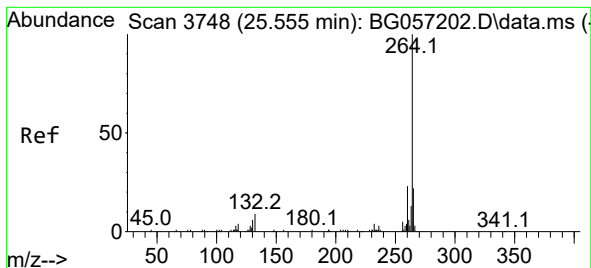
Ion Ratio Lower Upper

228 100

226 26.5 24.3 36.5

229 22.8 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.526 min Scan# 3

Delta R.T. 0.004 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

Instrument :

BNA\_G

ClientSampleId :

GHOST-CLEANFILL-001

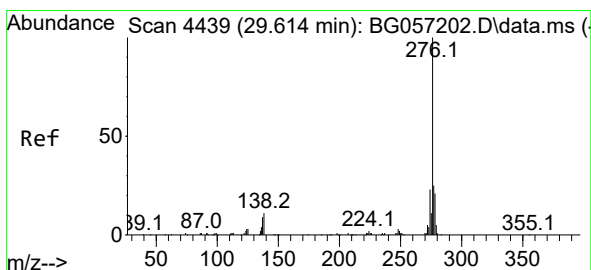
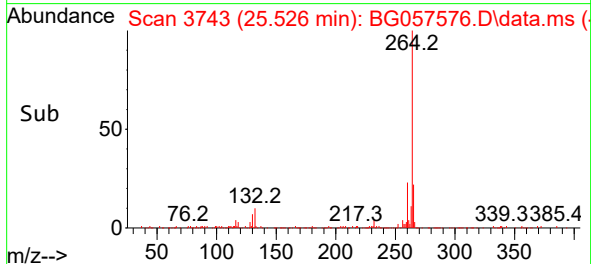
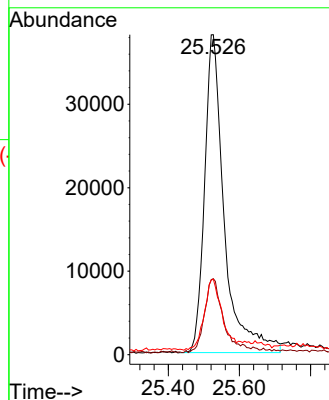
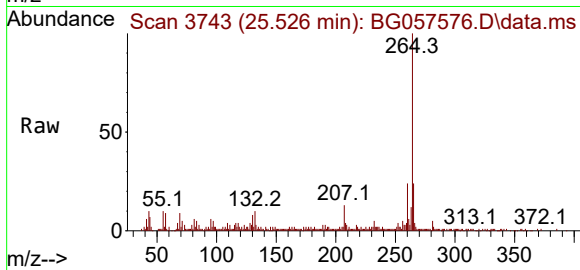
Tgt Ion:264 Resp: 146796

Ion Ratio Lower Upper

264 100

260 23.7 18.8 28.2

265 23.6 17.9 26.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.510 ng

RT: 29.580 min Scan# 4433

Delta R.T. -0.002 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

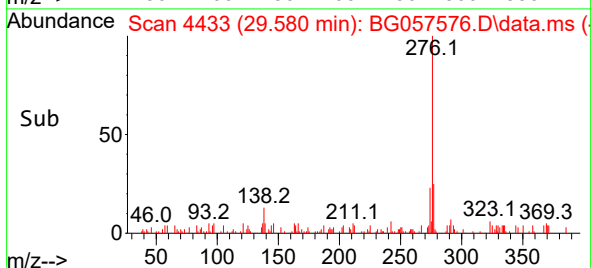
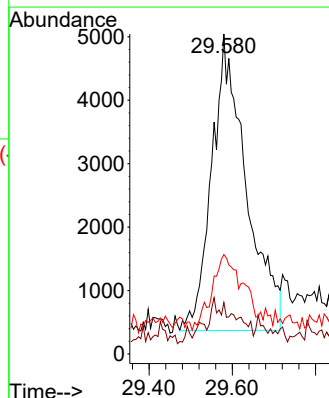
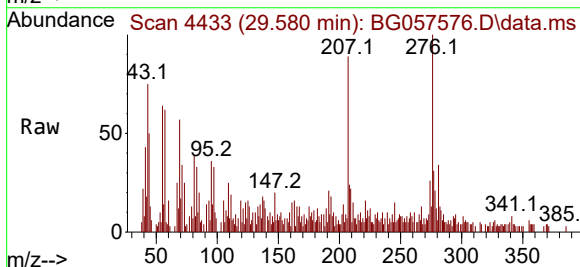
Tgt Ion:276 Resp: 26850

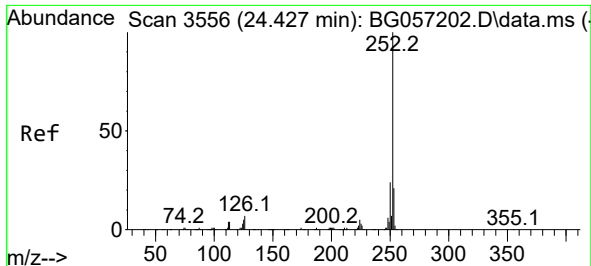
Ion Ratio Lower Upper

276 100

138 0.0 5.4 8.0#

277 18.2 20.6 30.8#

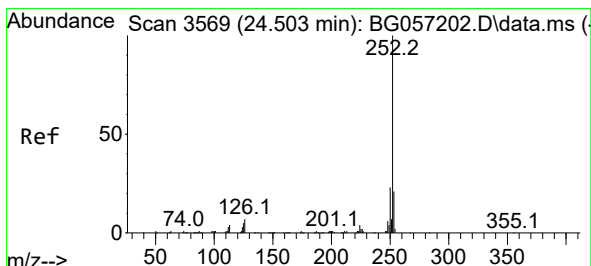
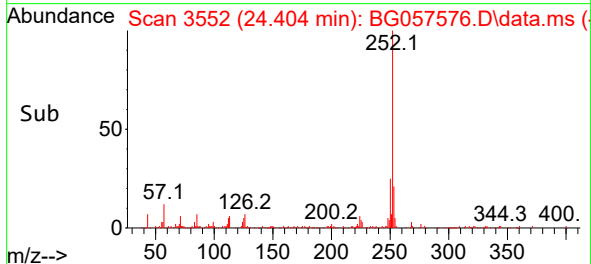
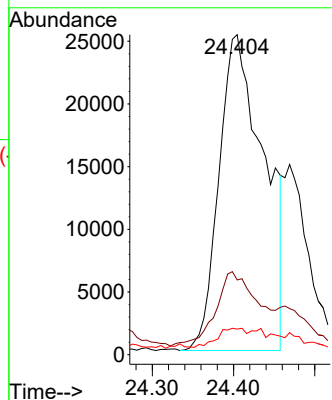
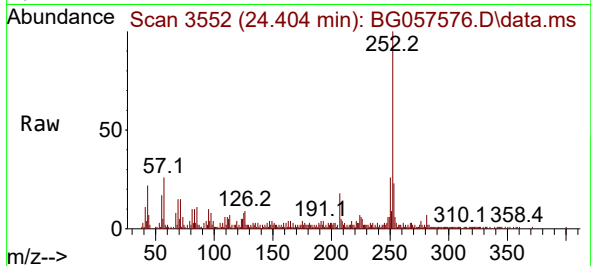




#88  
Benzo(b)fluoranthene  
Concen: 10.079 ng  
RT: 24.404 min Scan# 3552  
Delta R.T. 0.004 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

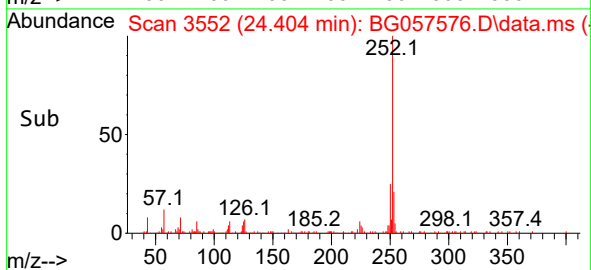
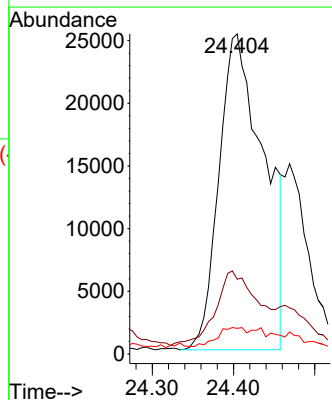
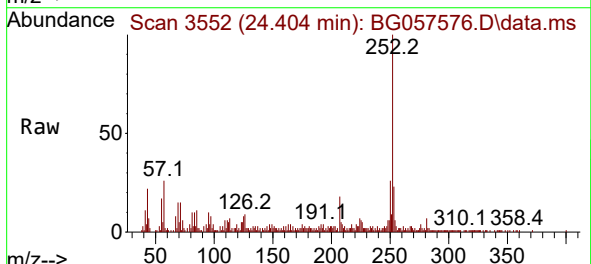
Instrument :  
BNA\_G  
ClientSampleId :  
GHOST-CLEANFILL-001

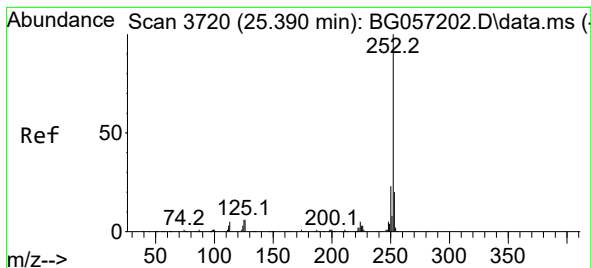
Tgt Ion:252 Resp: 96715  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.0 25.6  
125 8.0 4.2 6.2#



#89  
Benzo(k)fluoranthene  
Concen: 9.918 ng  
RT: 24.404 min Scan# 3552  
Delta R.T. -0.066 min  
Lab File: BG057576.D  
Acq: 26 May 2023 3:27

Tgt Ion:252 Resp: 96715  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.4 26.0  
125 8.0 4.1 6.1#





#90

Benzo(a)pyrene

Concen: 6.913 ng

RT: 25.356 min Scan# 31

Delta R.T. -0.002 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

Instrument :

BNA\_G

ClientSampleId :

GHOST-CLEANFILL-001

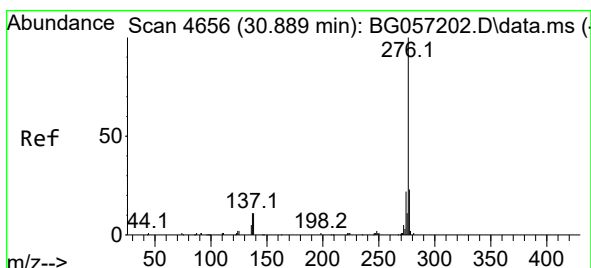
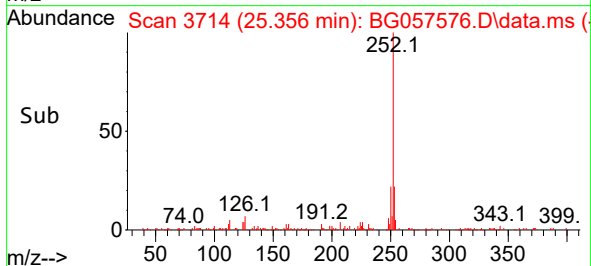
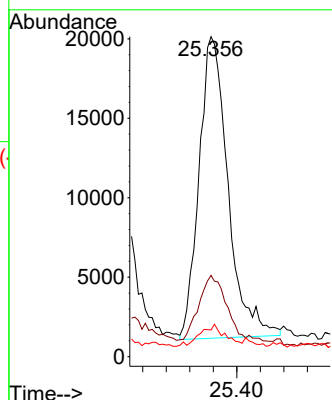
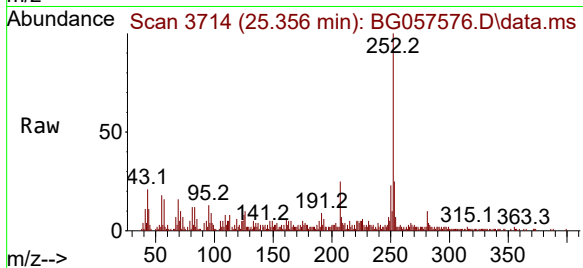
Tgt Ion:252 Resp: 64813

Ion Ratio Lower Upper

252 100

253 25.4 16.3 24.5#

125 8.3 5.0 7.4#



#92

Benzo(g,h,i)perylene

Concen: 2.564 ng

RT: 30.872 min Scan# 4653

Delta R.T. 0.016 min

Lab File: BG057576.D

Acq: 26 May 2023 3:27

Tgt Ion:276 Resp: 22308

Ion Ratio Lower Upper

276 100

277 28.2 18.4 27.6#

138 15.7 9.0 13.4#

