

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG102622\  
 Data File : BG055316.D  
 Acq On : 27 Oct 2022 2:54  
 Operator : CG/JU  
 Sample : N5238-05 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RBR-251375

Quant Time: Oct 27 10:46:54 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG102422.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 24 16:54:05 2022  
 Response via : Initial Calibration

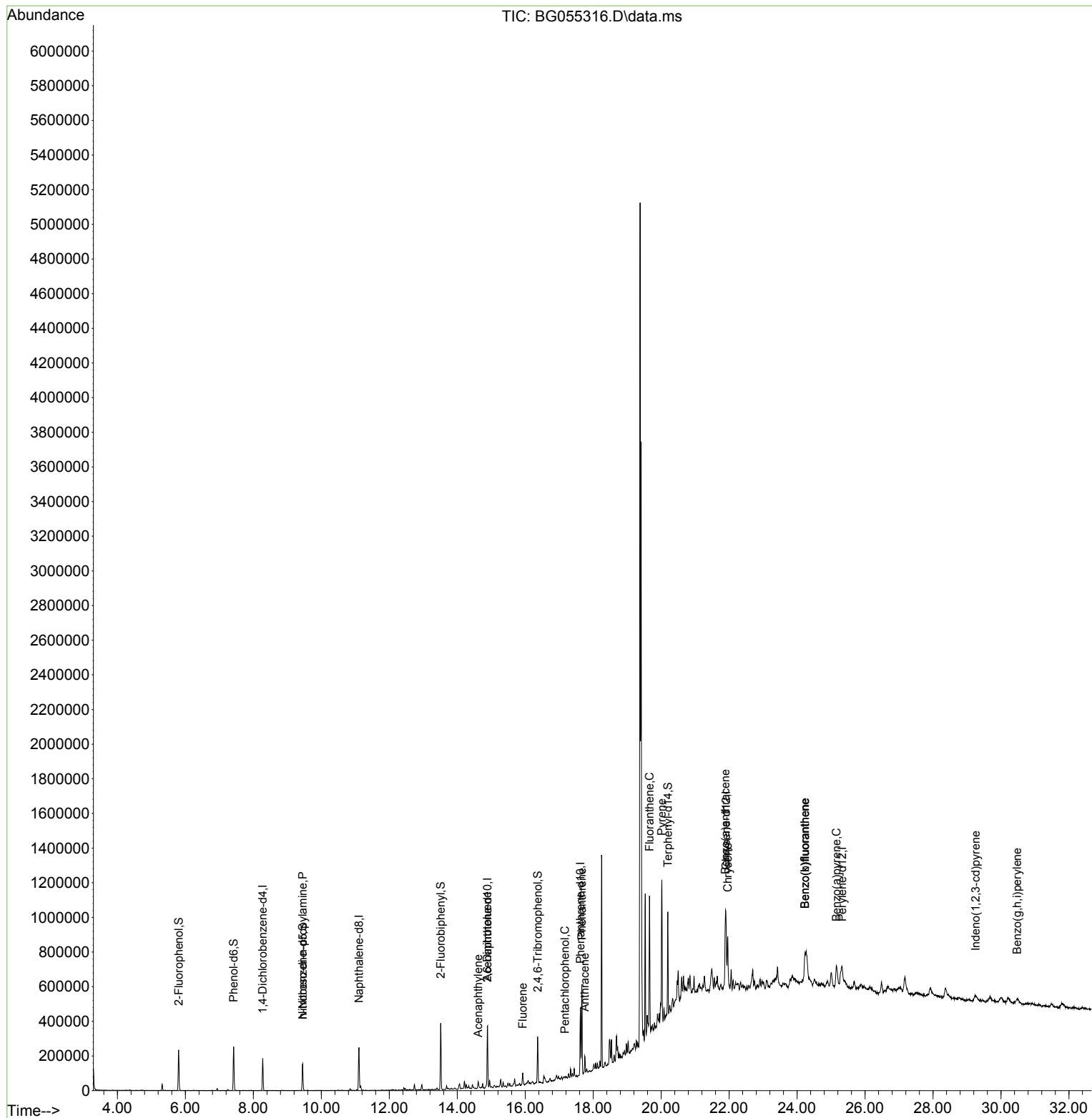
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.276  | 152  | 53067    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.108 | 136  | 216889   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.892 | 164  | 125908   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.624 | 188  | 239204   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.907 | 240  | 219221   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 25.327 | 264  | 163881   | 20.000 | ng    | # 0.03   |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.802  | 112  | 114482   | 37.774 | ng    | 0.01     |
| 7) Phenol-d6                  | 7.418  | 99   | 159036   | 36.220 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.451  | 82   | 99916    | 23.524 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.366 | 330  | 50786    | 37.104 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.517 | 172  | 203075   | 26.399 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.197 | 244  | 267685   | 25.370 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.451  | 70   | 13247    | 3.633  | ng    | # 82     |
| 49) Acenaphthylene            | 14.616 | 152  | 29222    | 2.486  | ng    | # 97     |
| 51) 2,6-Dinitrotoluene        | 14.886 | 165  | 18013    | 8.955  | ng    | # 22     |
| 58) Fluorene                  | 15.926 | 166  | 30230    | 3.232  | ng    | 96       |
| 70) Pentachlorophenol         | 17.171 | 266  | 86       | 2.599  | ng    | 94       |
| 71) Phenanthrene              | 17.665 | 178  | 312866   | 24.525 | ng    | 100      |
| 72) Anthracene                | 17.753 | 178  | 65786    | 5.275  | ng    | 98       |
| 75) Fluoranthene              | 19.657 | 202  | 503622   | 33.880 | ng    | 99       |
| 78) Pyrene                    | 20.021 | 202  | 508355   | 33.831 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.889 | 228  | 249224   | 16.930 | ng    | 97       |
| 83) Chrysene                  | 21.960 | 228  | 252373   | 18.048 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 29.251 | 276  | 73399    | 6.064  | ng    | # 88     |
| 88) Benzo(b)fluoranthene      | 24.234 | 252  | 242904   | 24.641 | ng    | # 89     |
| 89) Benzo(k)fluoranthene      | 24.234 | 252  | 242904   | 24.403 | ng    | # 91     |
| 90) Benzo(a)pyrene            | 25.162 | 252  | 168597   | 19.944 | ng    | # 94     |
| 92) Benzo(g,h,i)perylene      | 30.479 | 276  | 85365    | 8.665  | ng    | # 84     |
| -----                         |        |      |          |        |       |          |

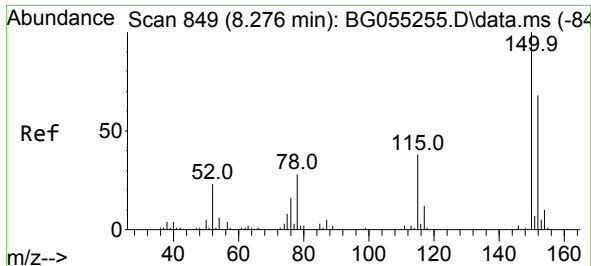
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG102622\  
Data File : BG055316.D  
Acq On : 27 Oct 2022 2:54  
Operator : CG/JU  
Sample : N5238-05 2X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

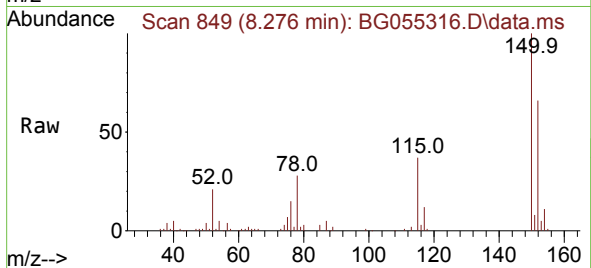
Quant Time: Oct 27 10:46:54 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG102422.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 24 16:54:05 2022  
Response via : Initial Calibration



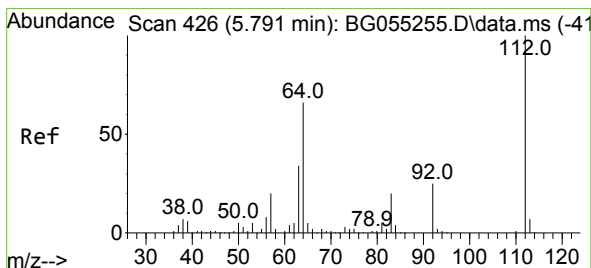
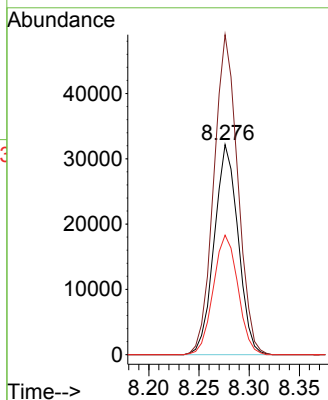
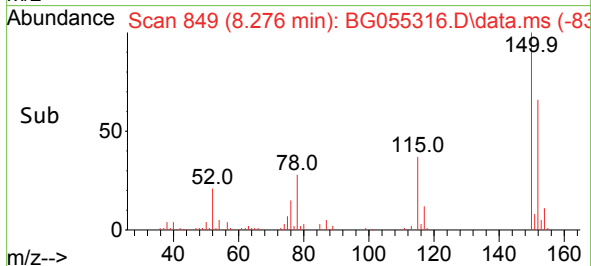


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.276 min Scan# 849  
Delta R.T. -0.000 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

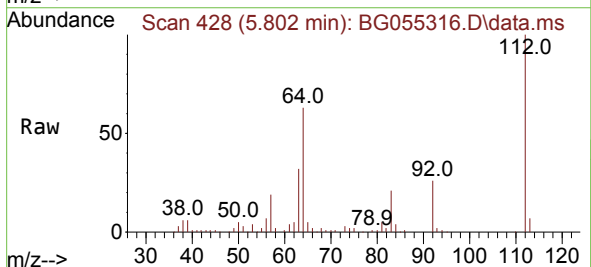
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375



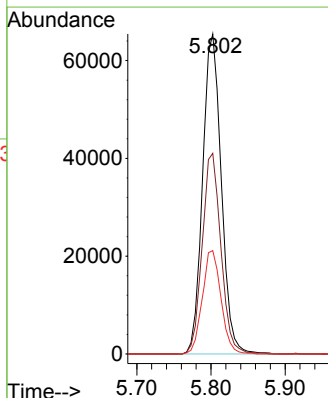
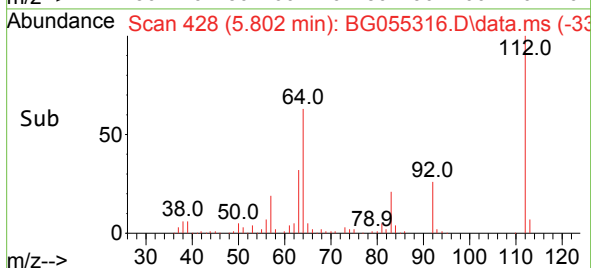
Tgt Ion:152 Resp: 53067  
Ion Ratio Lower Upper  
152 100  
150 152.4 118.2 177.4  
115 56.9 44.5 66.7

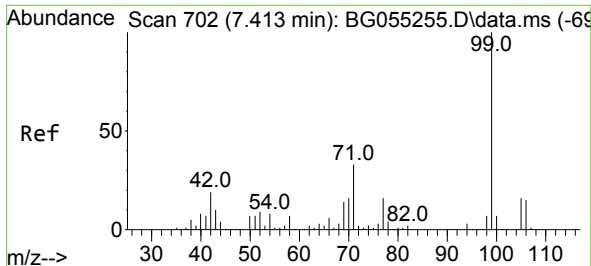


#5  
2-Fluorophenol  
Concen: 37.774 ng  
RT: 5.802 min Scan# 428  
Delta R.T. 0.011 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54



Tgt Ion:112 Resp: 114482  
Ion Ratio Lower Upper  
112 100  
64 62.7 52.6 78.8  
63 32.3 27.1 40.7

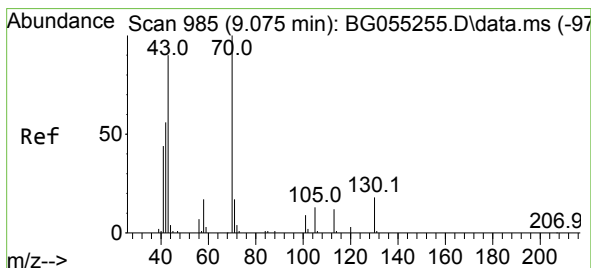
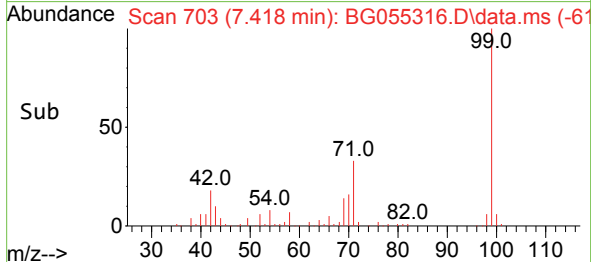
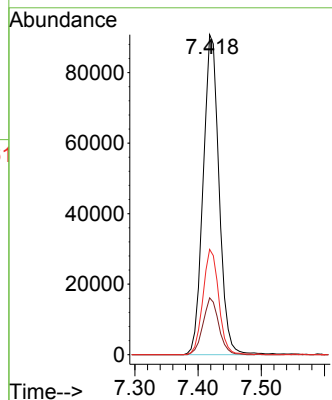
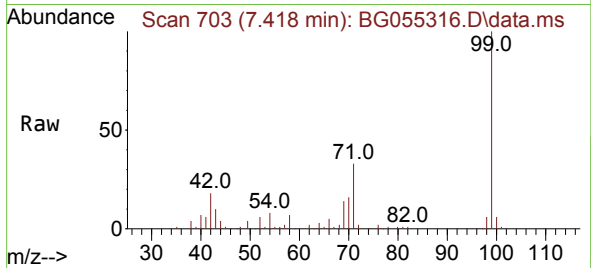




#7  
Phenol-d6  
Concen: 36.220 ng  
RT: 7.418 min Scan# 702  
Delta R.T. 0.006 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

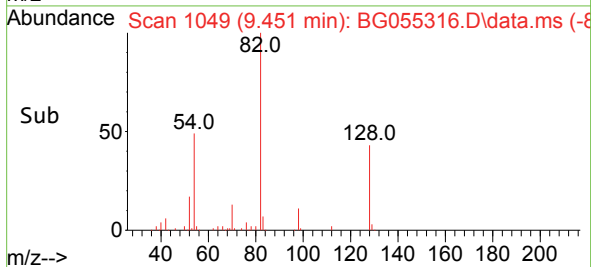
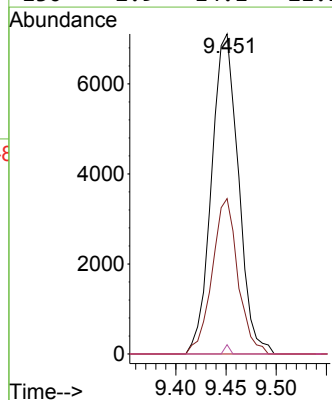
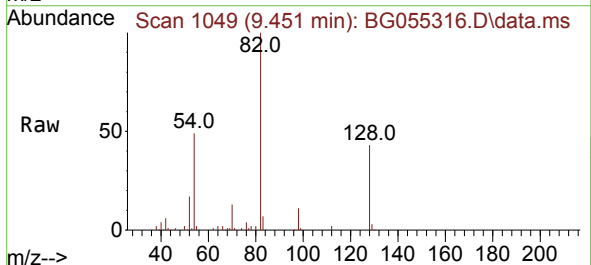
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

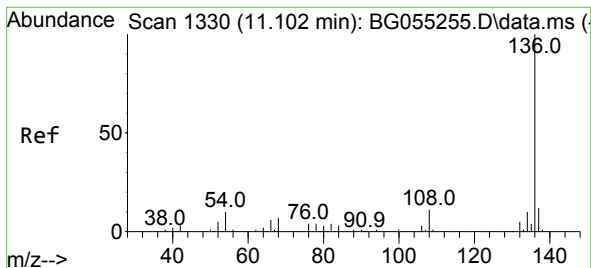
Tgt Ion: 99 Resp: 159036  
Ion Ratio Lower Upper  
99 100  
42 17.8 15.2 22.8  
71 32.9 26.2 39.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 3.633 ng  
RT: 9.451 min Scan# 1049  
Delta R.T. 0.376 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

Tgt Ion: 70 Resp: 13247  
Ion Ratio Lower Upper  
70 100  
42 48.6 45.8 68.6  
101 0.0 7.4 11.0#  
130 2.9 14.1 21.1#

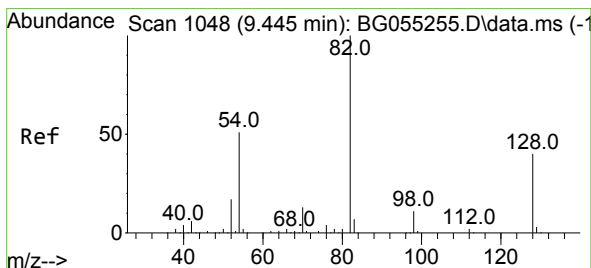
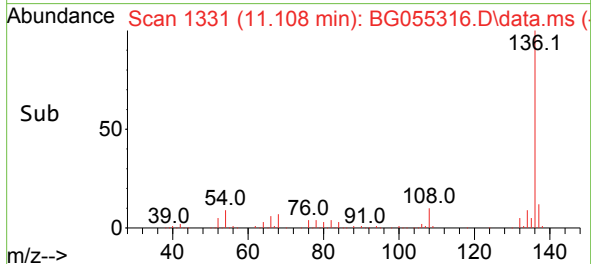
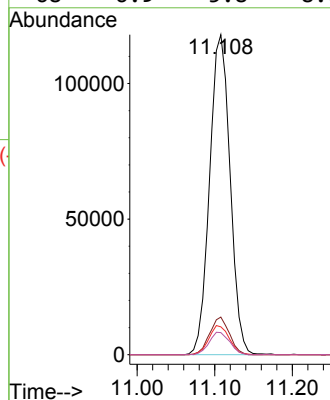
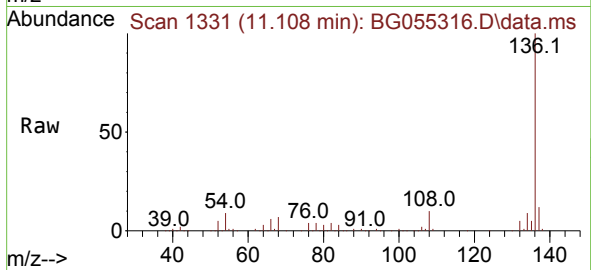




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.108 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

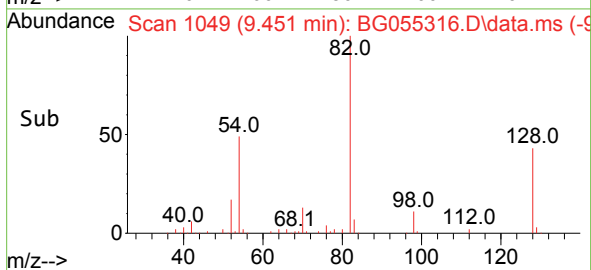
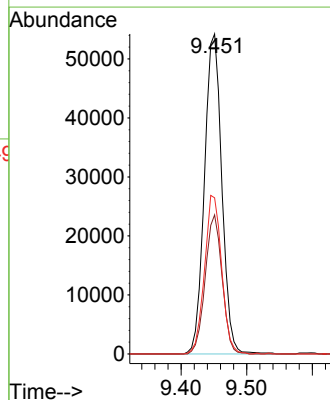
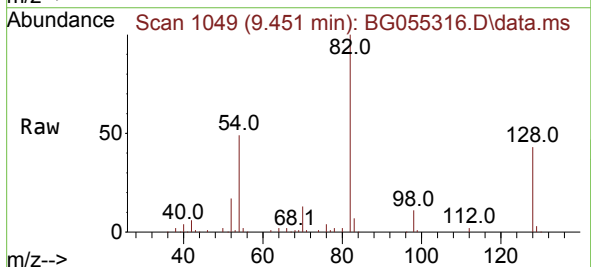
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

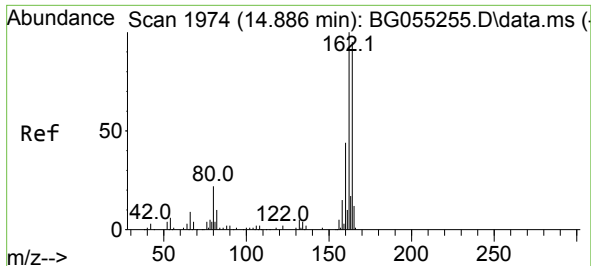
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 216889 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.8  | 9.2   | 13.8   |
| 54       | 8.7   | 7.8   | 11.8   |
| 68       | 6.9   | 5.8   | 8.6    |



#23  
Nitrobenzene-d5  
Concen: 23.524 ng  
RT: 9.451 min Scan# 1049  
Delta R.T. 0.006 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 99916 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.5  | 32.0  | 48.0  |
| 54       | 48.8  | 40.9  | 61.3  |

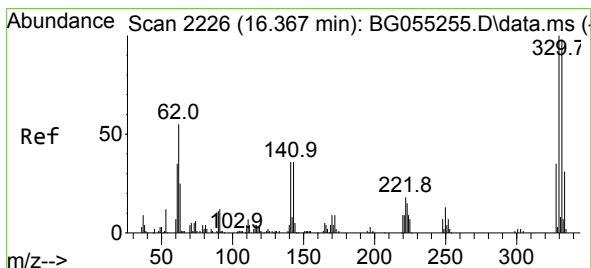
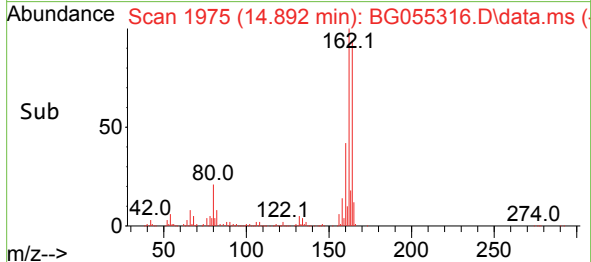
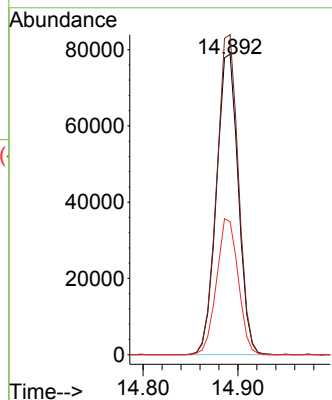
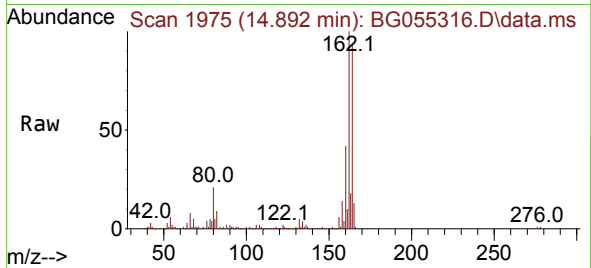




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.892 min Scan# 1975  
Delta R.T. 0.006 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

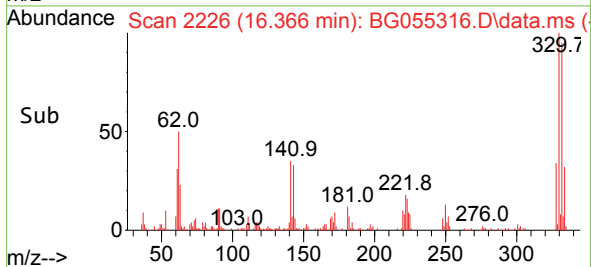
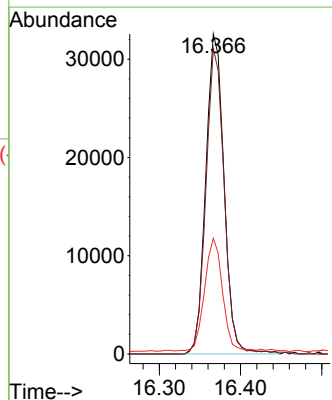
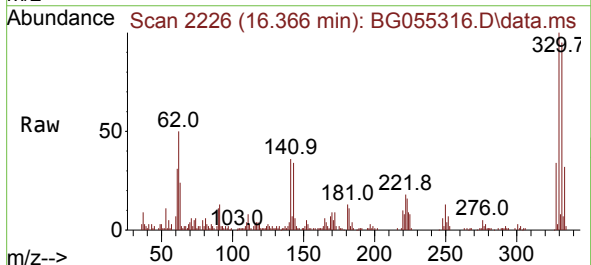
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BNA\_G  
ClientSampleId :  
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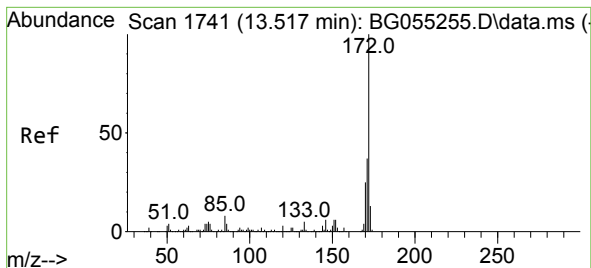
Tgt Ion:164 Resp: 125908  
Ion Ratio Lower Upper  
164 100  
162 106.5 84.0 126.0  
160 44.2 36.7 55.1



#42  
2,4,6-Tribromophenol  
Concen: 37.104 ng  
RT: 16.366 min Scan# 2226  
Delta R.T. -0.000 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

Tgt Ion:330 Resp: 50786  
Ion Ratio Lower Upper  
330 100  
332 95.6 77.4 116.0  
141 33.8 29.8 44.8

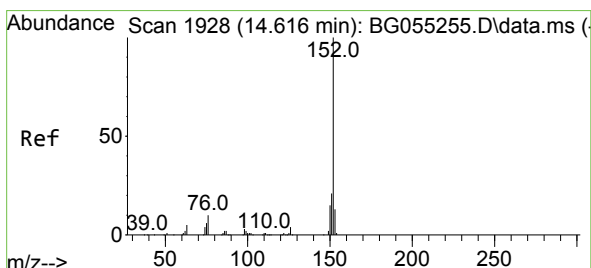
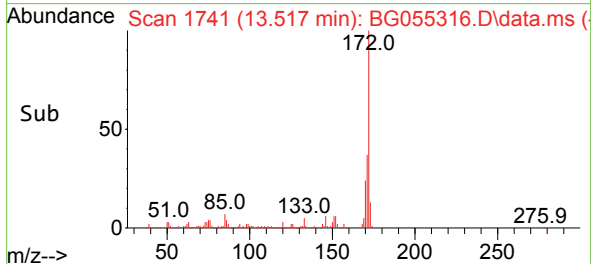
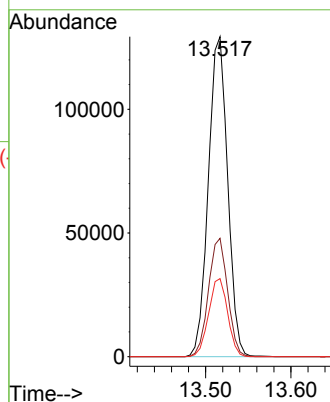
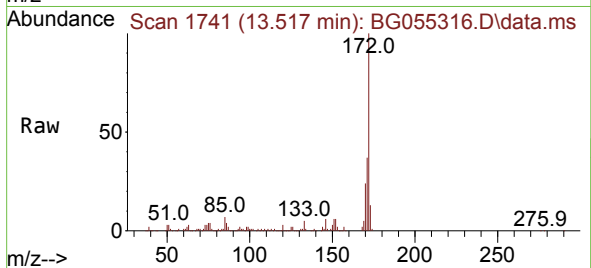




#45  
2-Fluorobiphenyl  
Concen: 26.399 ng  
RT: 13.517 min Scan# 1741  
Delta R.T. -0.000 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

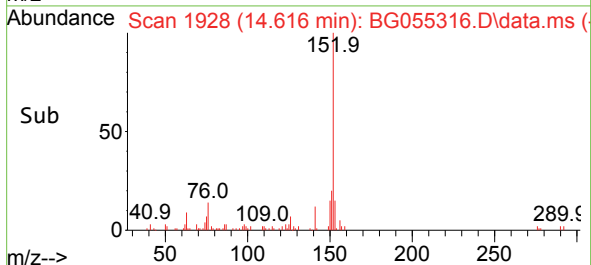
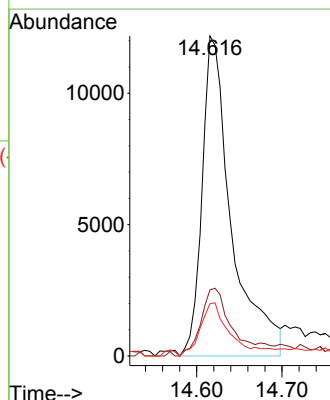
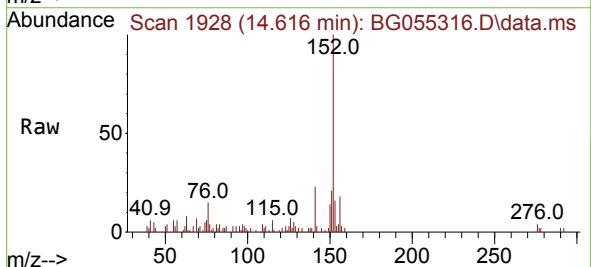
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

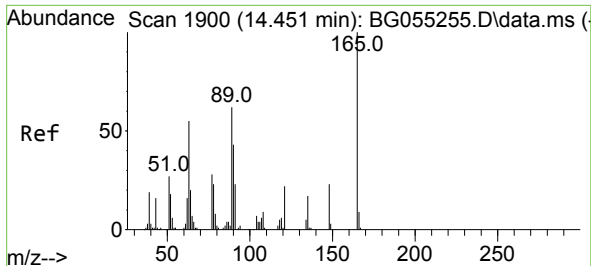
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Ion Ratio Lower Upper  
172 100  
171 37.0 29.7 44.5  
170 24.4 20.2 30.2



#49  
Acenaphthylene  
Concen: 2.486 ng  
RT: 14.616 min Scan# 1928  
Delta R.T. -0.000 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

Tgt Ion:152 Resp: 29222  
Ion Ratio Lower Upper  
152 100  
151 20.7 16.6 25.0  
153 16.3 10.5 15.7#

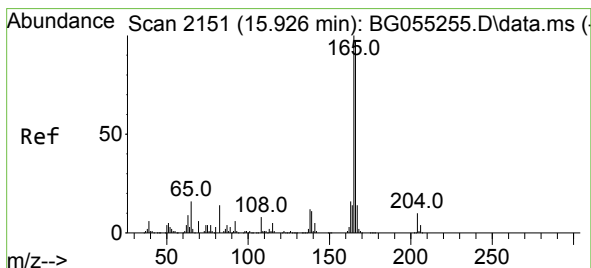
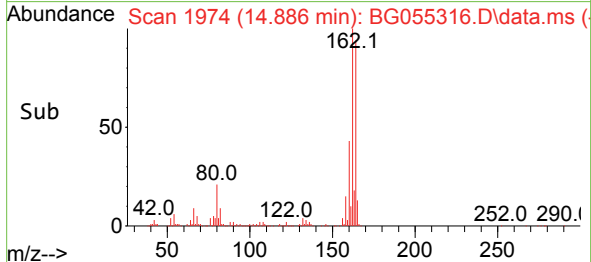
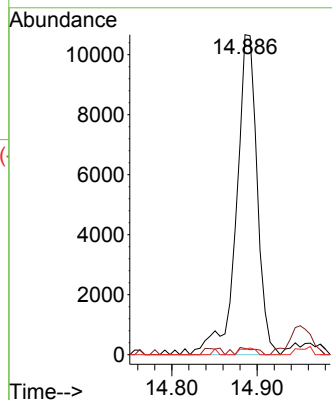
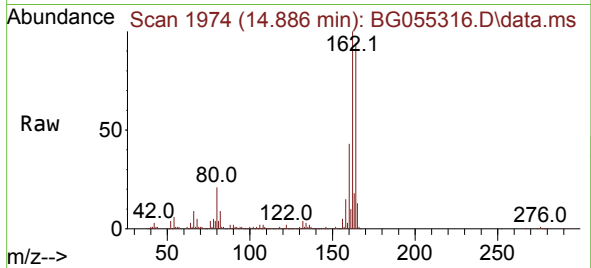




#51  
2,6-Dinitrotoluene  
Concen: 8.955 ng  
RT: 14.886 min Scan# 1900  
Delta R.T. 0.434 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

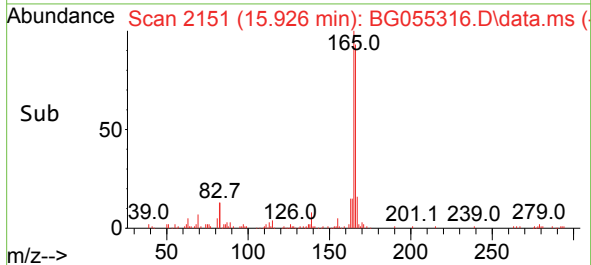
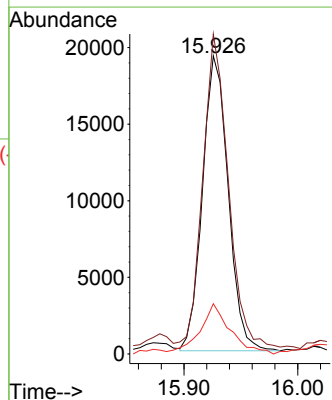
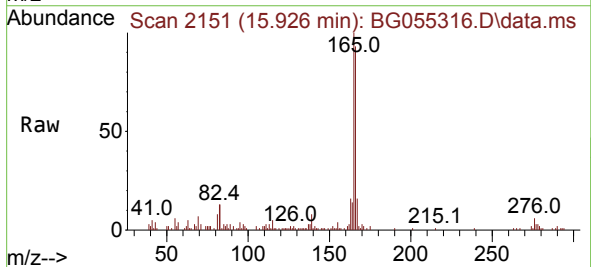
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

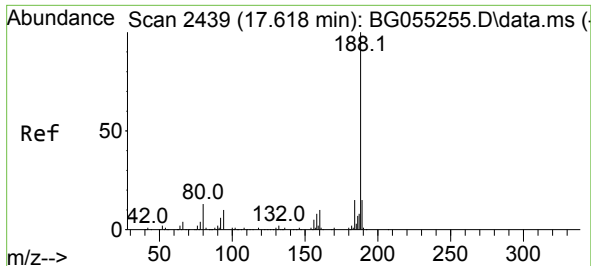
Tgt Ion:165 Resp: 18013  
Ion Ratio Lower Upper  
165 100  
63 2.0 49.2 73.8#  
89 1.7 49.9 74.9#



#58  
Fluorene  
Concen: 3.232 ng  
RT: 15.926 min Scan# 2151  
Delta R.T. -0.000 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

Tgt Ion:166 Resp: 30230  
Ion Ratio Lower Upper  
166 100  
165 107.4 82.4 123.6  
167 16.9 11.5 17.3

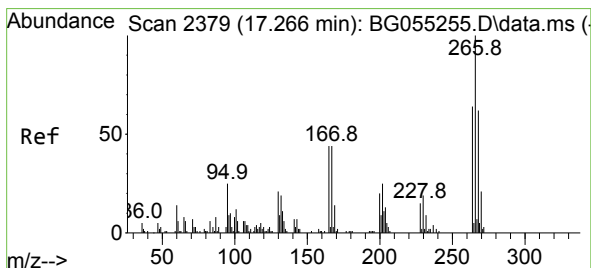
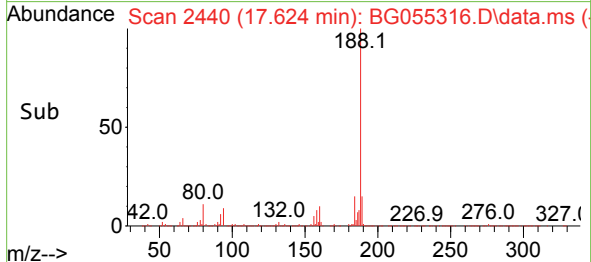
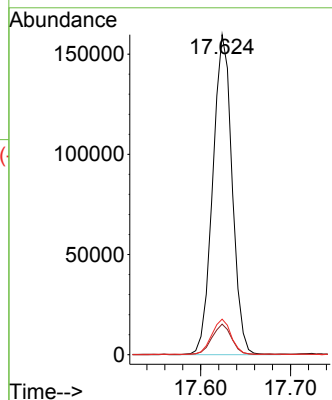
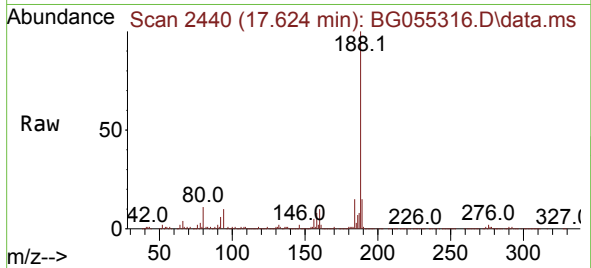




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.624 min Scan# 24  
Delta R.T. 0.006 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

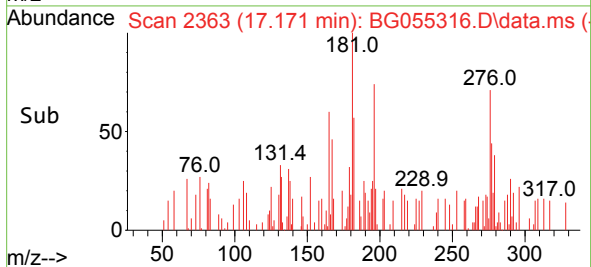
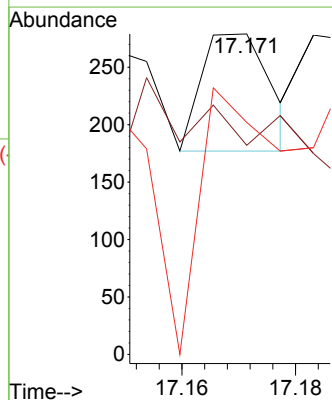
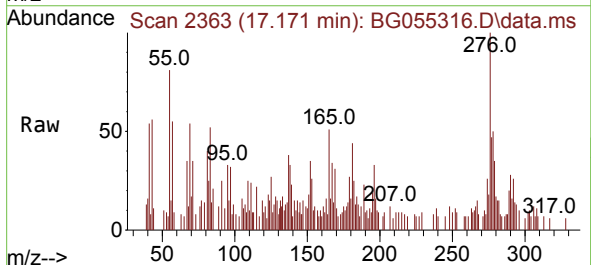
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

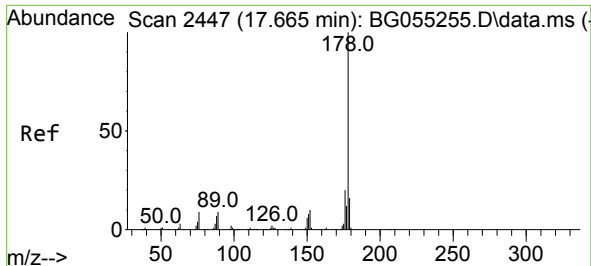
Tgt Ion:188 Resp: 239204  
Ion Ratio Lower Upper  
188 100  
94 9.6 8.2 12.4  
80 11.1 10.1 15.1



#70  
Pentachlorophenol  
Concen: 2.599 ng  
RT: 17.171 min Scan# 2363  
Delta R.T. -0.095 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

Tgt Ion:266 Resp: 86  
Ion Ratio Lower Upper  
266 100  
268 65.2 53.2 79.8  
264 72.4 51.5 77.3

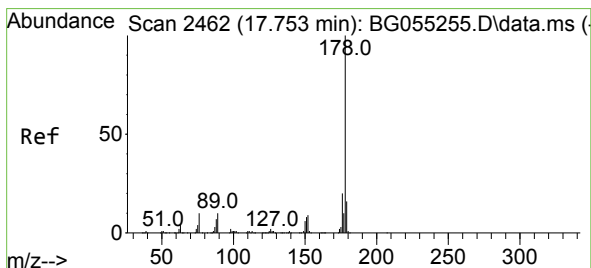
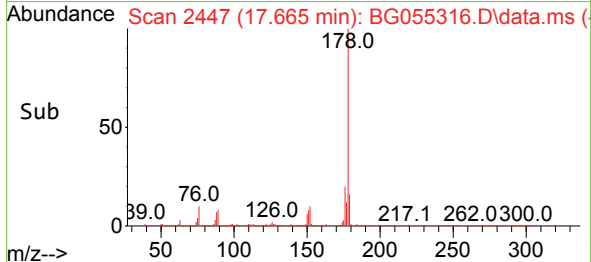
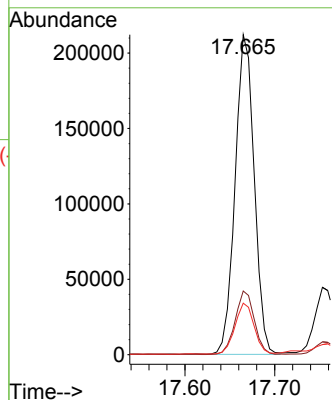
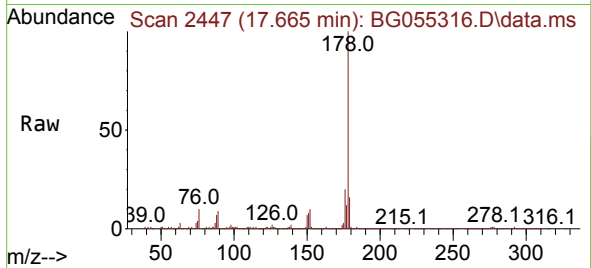




#71  
Phenanthrene  
Concen: 24.525 ng  
RT: 17.665 min Scan# 2447  
Delta R.T. -0.000 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

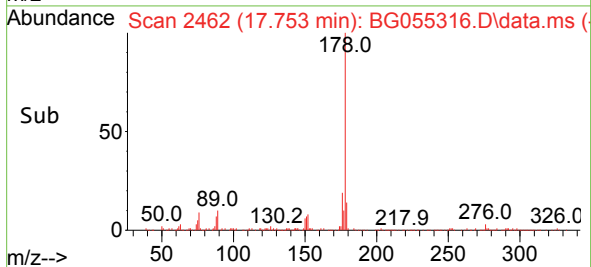
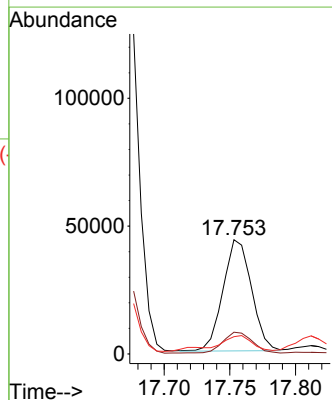
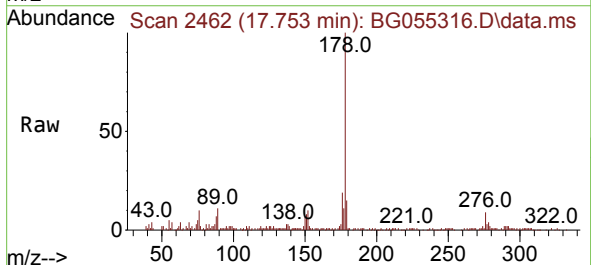
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

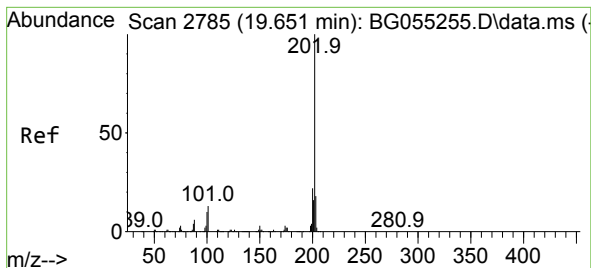
Tgt Ion:178 Resp: 312866  
Ion Ratio Lower Upper  
178 100  
176 19.9 16.0 24.0  
179 16.1 12.6 19.0



#72  
Anthracene  
Concen: 5.275 ng  
RT: 17.753 min Scan# 2462  
Delta R.T. -0.000 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

Tgt Ion:178 Resp: 65786  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.7 23.5  
179 15.1 12.9 19.3





#75

Fluoranthene

Concen: 33.880 ng

RT: 19.657 min Scan# 21

Delta R.T. 0.006 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

Instrument :

BNA\_G

ClientSampleId :

RBR-251375

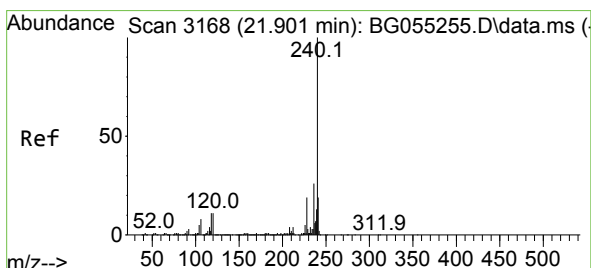
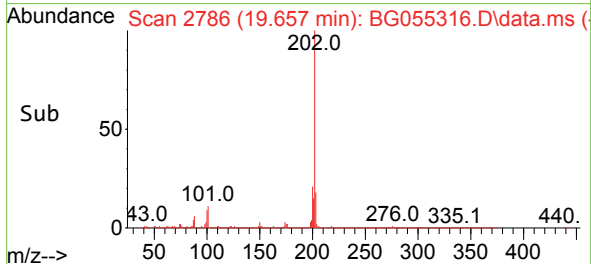
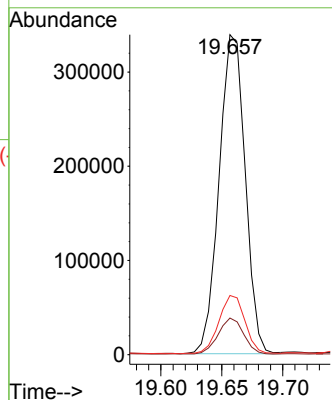
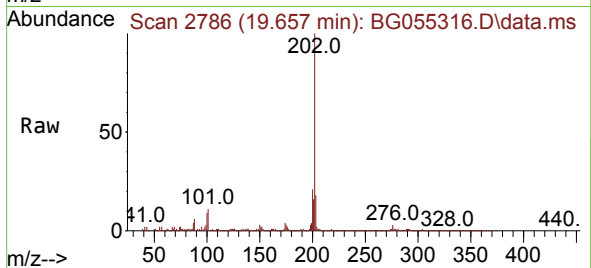
Tgt Ion:202 Resp: 503622

Ion Ratio Lower Upper

202 100

101 11.5 0.0 32.6

203 18.5 0.0 38.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.907 min Scan# 3169

Delta R.T. 0.006 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

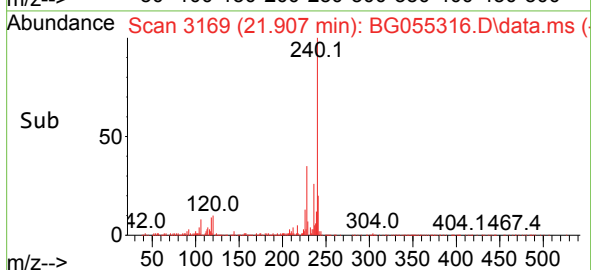
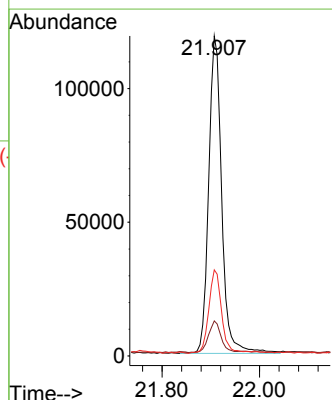
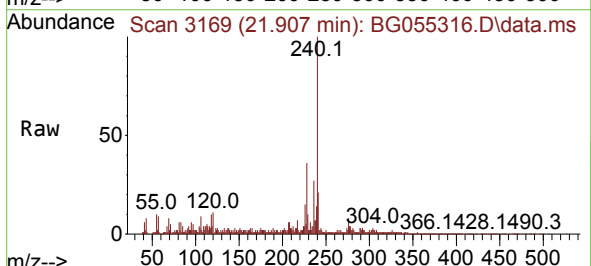
Tgt Ion:240 Resp: 219221

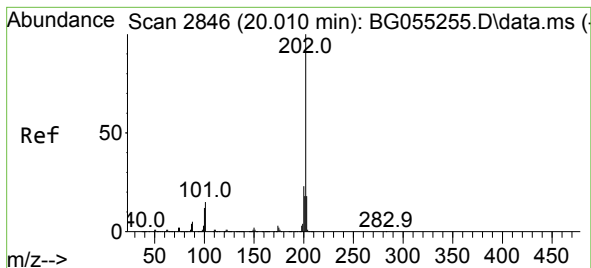
Ion Ratio Lower Upper

240 100

120 10.9 8.9 13.3

236 26.9 21.0 31.4





#78

Pyrene

Concen: 33.831 ng

RT: 20.021 min Scan# 21

Delta R.T. 0.011 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

Instrument :

BNA\_G

ClientSampleId :

RBR-251375

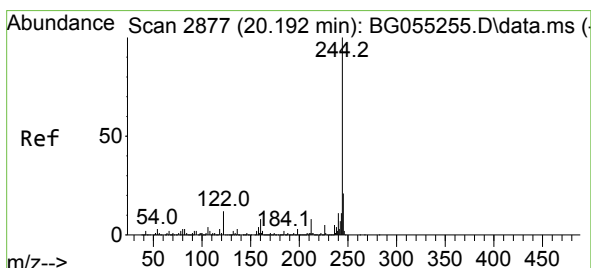
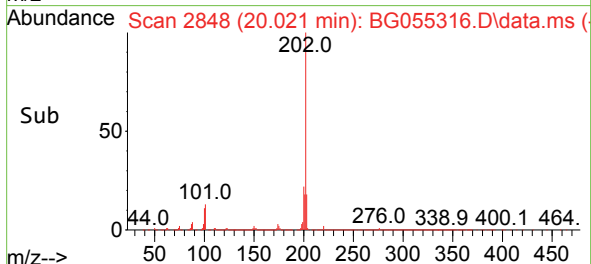
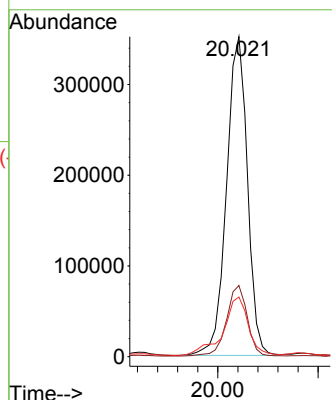
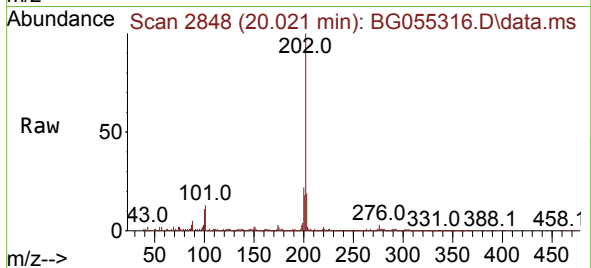
Tgt Ion:202 Resp: 508355

Ion Ratio Lower Upper

202 100

200 22.2 18.0 27.0

203 18.7 14.3 21.5



#79

Terphenyl-d14

Concen: 25.370 ng

RT: 20.197 min Scan# 2878

Delta R.T. 0.006 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

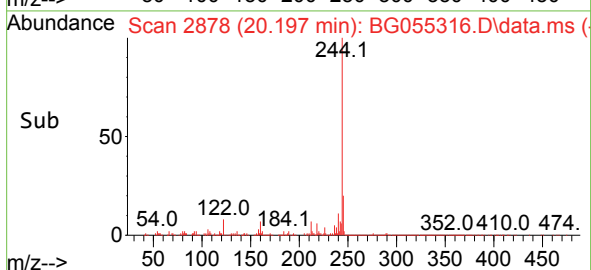
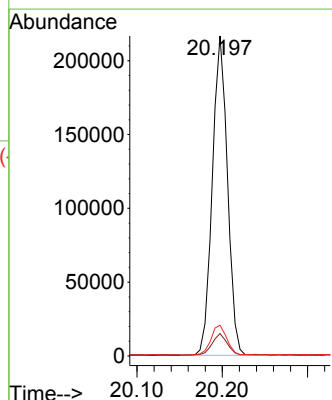
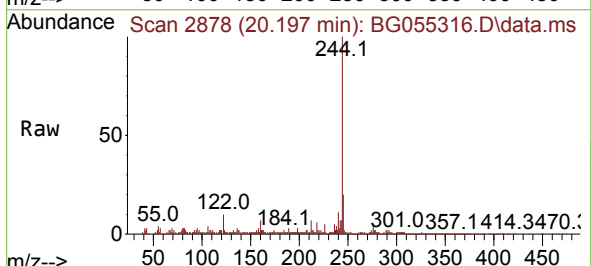
Tgt Ion:244 Resp: 267685

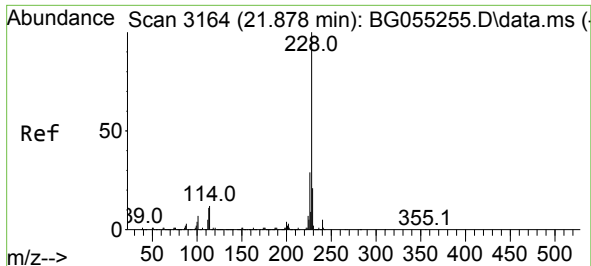
Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

122 9.6 9.6 14.4#

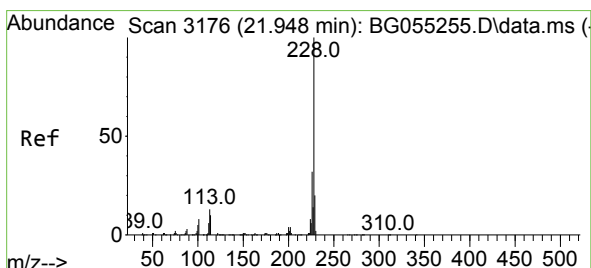
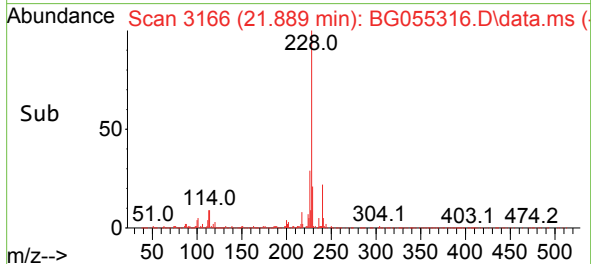
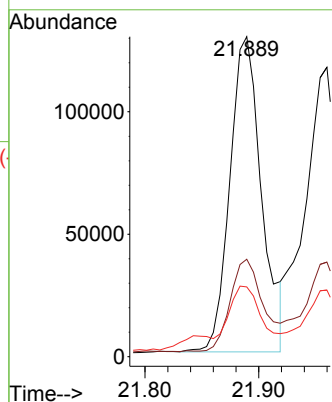
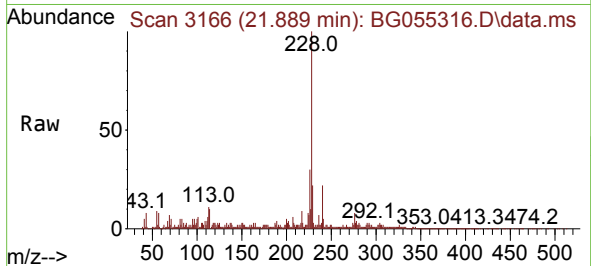




#81  
Benzo(a)anthracene  
Concen: 16.930 ng  
RT: 21.889 min Scan# 3166  
Delta R.T. 0.011 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

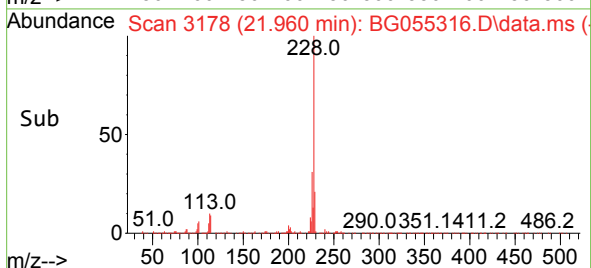
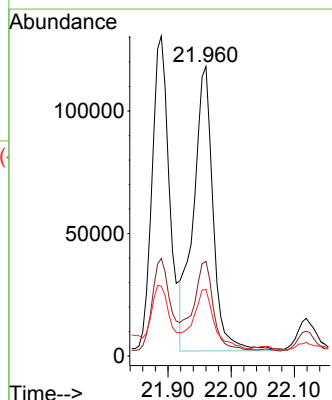
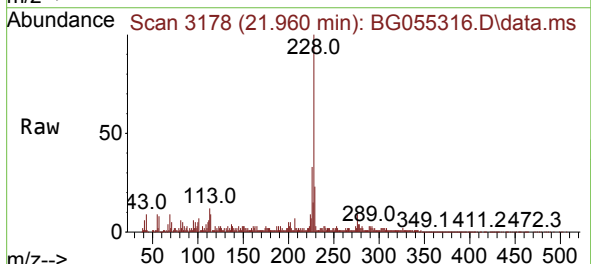
Instrument :  
BNA\_G  
ClientSampleId :  
RBR-251375

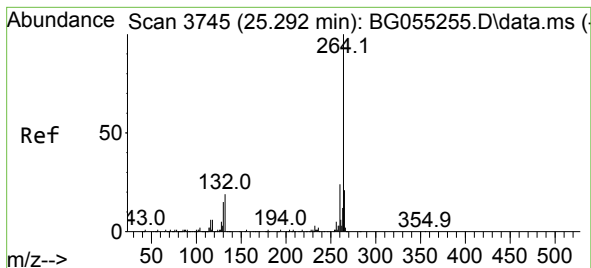
Tgt Ion:228 Resp: 249224  
Ion Ratio Lower Upper  
228 100  
226 30.5 22.9 34.3  
229 21.8 16.7 25.1



#83  
Chrysene  
Concen: 18.048 ng  
RT: 21.960 min Scan# 3178  
Delta R.T. 0.011 min  
Lab File: BG055316.D  
Acq: 27 Oct 2022 2:54

Tgt Ion:228 Resp: 252373  
Ion Ratio Lower Upper  
228 100  
226 32.7 25.8 38.8  
229 23.0 16.3 24.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.327 min Scan# 31

Delta R.T. 0.035 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

Instrument :

BNA\_G

ClientSampleId :

RBR-251375

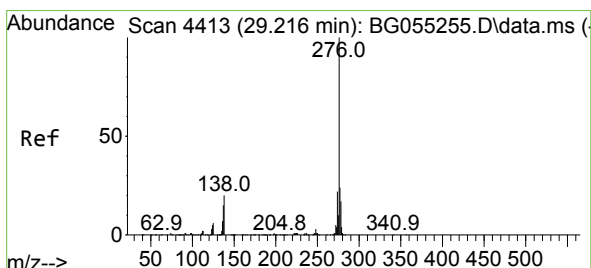
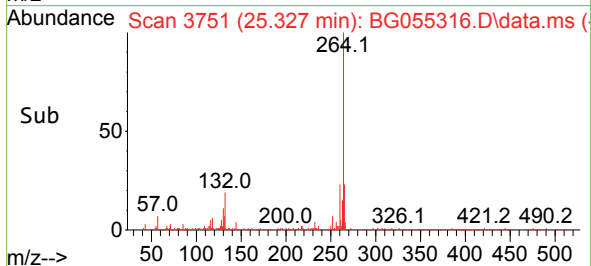
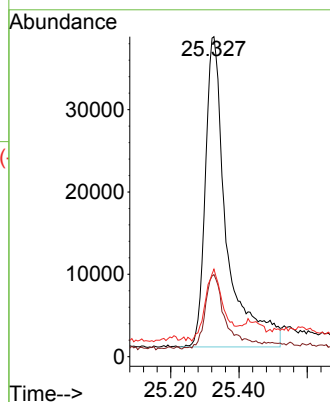
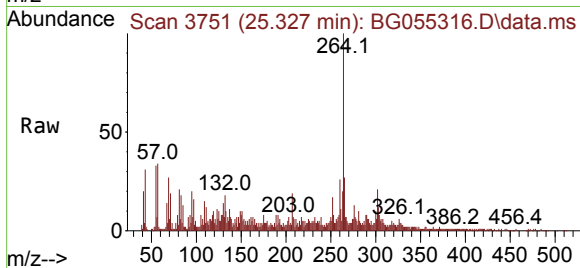
Tgt Ion:264 Resp: 163881

Ion Ratio Lower Upper

264 100

260 25.7 19.5 29.3

265 27.4 17.4 26.2#



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.064 ng

RT: 29.251 min Scan# 4419

Delta R.T. 0.035 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

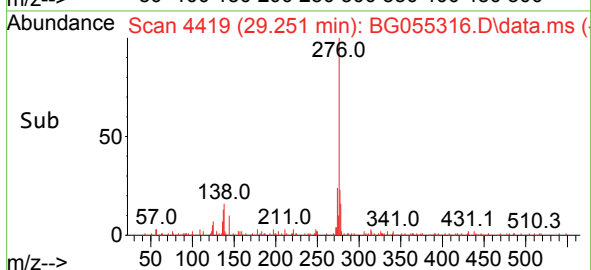
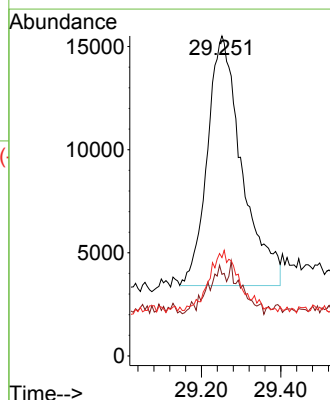
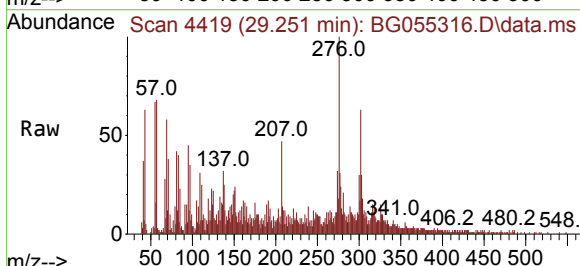
Tgt Ion:276 Resp: 73399

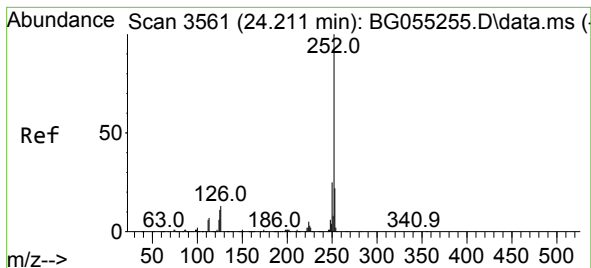
Ion Ratio Lower Upper

276 100

138 8.2 13.9 20.9#

277 22.2 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 24.641 ng

RT: 24.234 min Scan# 3565

Delta R.T. 0.023 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

Instrument :

BNA\_G

ClientSampleId :

RBR-251375

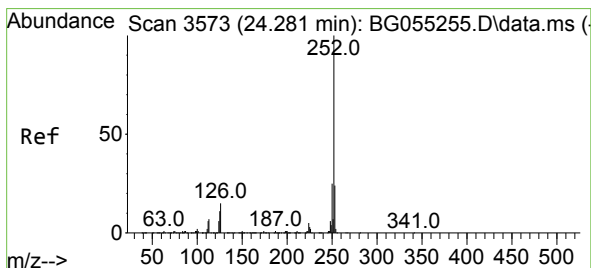
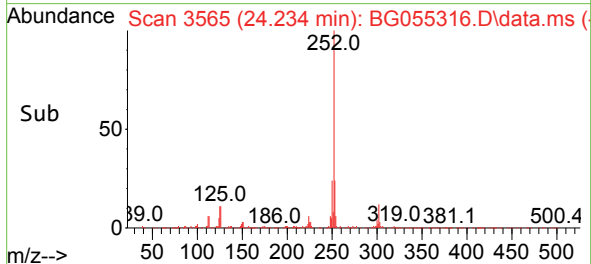
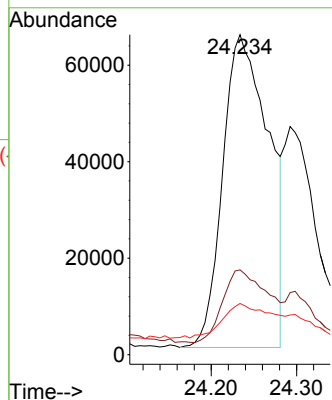
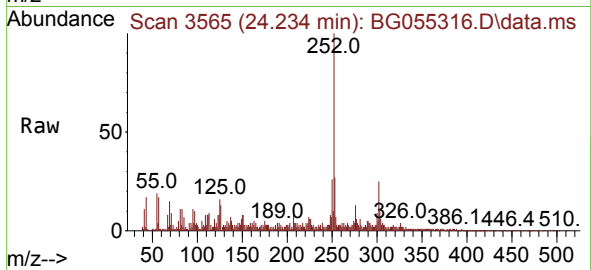
Tgt Ion:252 Resp: 242904

Ion Ratio Lower Upper

252 100

253 26.5 17.6 26.4#

125 16.0 9.0 13.4#



#89

Benzo(k)fluoranthene

Concen: 24.403 ng

RT: 24.234 min Scan# 3565

Delta R.T. -0.047 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

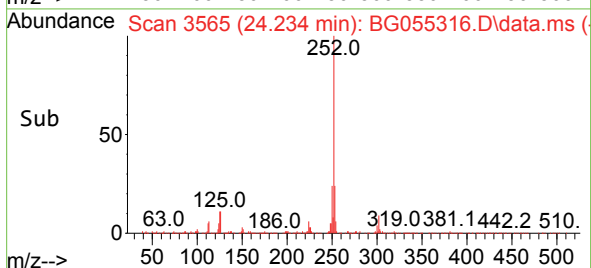
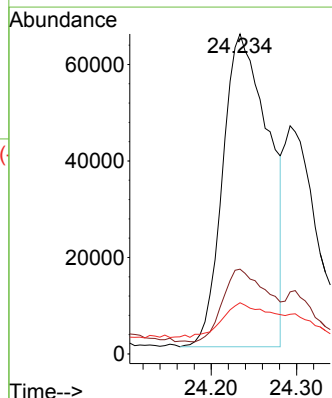
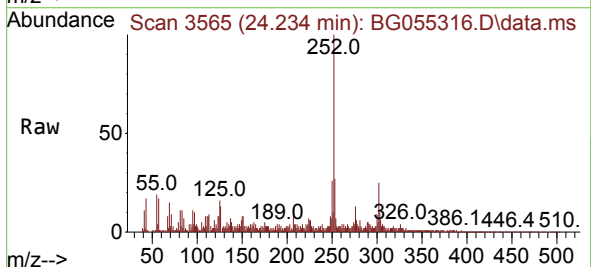
Tgt Ion:252 Resp: 242904

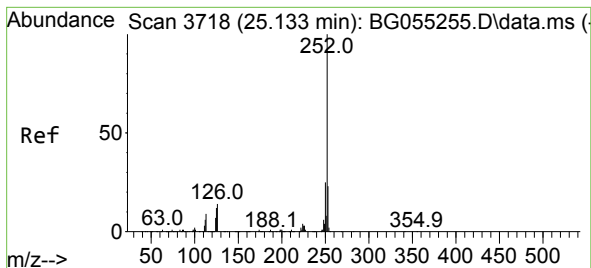
Ion Ratio Lower Upper

252 100

253 26.5 18.6 27.8

125 16.0 9.1 13.7#





#90

Benzo(a)pyrene

Concen: 19.944 ng

RT: 25.162 min Scan# 31

Delta R.T. 0.029 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

Instrument :

BNA\_G

ClientSampleId :

RBR-251375

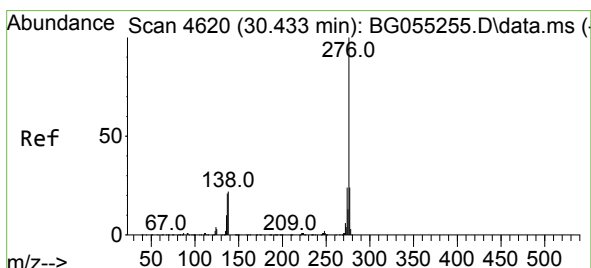
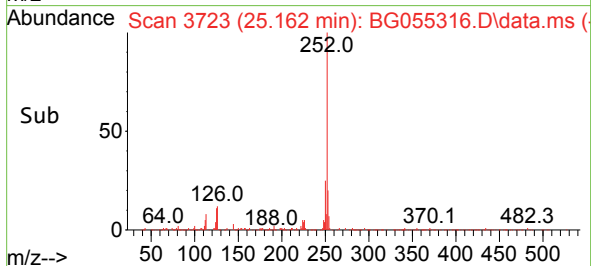
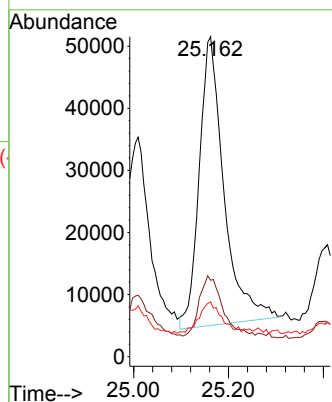
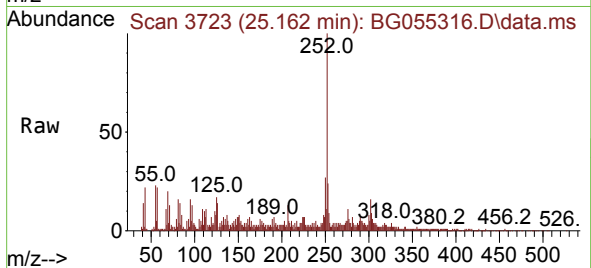
Tgt Ion:252 Resp: 168597

Ion Ratio Lower Upper

252 100

253 23.9 18.2 27.2

125 17.2 9.8 14.8#



#92

Benzo(g,h,i)perylene

Concen: 8.665 ng

RT: 30.479 min Scan# 4628

Delta R.T. 0.047 min

Lab File: BG055316.D

Acq: 27 Oct 2022 2:54

Tgt Ion:276 Resp: 85365

Ion Ratio Lower Upper

276 100

277 31.6 19.1 28.7#

138 29.1 17.2 25.8#

