

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072523\  
 Data File : BG058456.D  
 Acq On : 25 Jul 2023 21:44  
 Operator : CG/JU  
 Sample : 03540-03  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 25 23:16:30 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jul 24 22:10:54 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.815  | 152  | 47107    | 20.000  | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.617 | 136  | 217355   | 20.000  | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.466 | 164  | 154778   | 20.000  | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.210 | 188  | 330247   | 20.000  | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.458 | 240  | 263179   | 20.000  | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.525 | 264  | 354836   | 20.000  | ng/u1  | # 0.00   |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8             | 3.238  | 96   | 3879     | 3.031   | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.649  | 84   | 24191    | 6.368   | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.986  | 99   | 63126    | 14.126  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.145  | 67   | 48593    | 17.398  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.351  | 132  | 57935    | 18.521  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.526  | 113  | 59044    | 17.322  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.978  | 128  | 29693    | 18.226  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.701  | 143  | 34840    | 19.588  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.247 | 165  | 61773    | 18.117  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.764 | 131  | 82       | 0.017   | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.867 | 166  | 224979   | 18.850  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.155 | 160  | 222204   | 17.765  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.683 | 143  | 19557    | 10.850  | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.453 | 176  | 202522   | 20.495  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.588 | 200  | 18211    | 10.823  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.310 | 188  | 268144   | 18.791  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.601 | 212  | 107239   | 6.899   | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.313 | 264  | 56910    | 3.318   | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |         |        |          |
|                               |        |      |          |         | Qvalue |          |
| 6) Benzaldehyde               | 6.957  | 77   | 6784     | 3.759   | ng/u1  | 92       |
| 8) Phenol                     | 7.016  | 94   | 16381    | 3.530   | ng/u1  | 97       |
| 16) Acetophenone              | 8.637  | 105  | 81429    | 14.028  | ng/u1  | 97       |
| 30) Naphthalene               | 10.670 | 128  | 256876   | 22.110  | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.280 | 142  | 102664   | 13.190  | ng/u1  | 98       |
| 37) 1-Methylnaphthalene       | 12.504 | 142  | 79395    | 9.952   | ng/u1  | 99       |
| 43) 1,1'-Biphenyl             | 13.297 | 154  | 44301    | 4.233   | ng/u1  | 99       |
| 47) Dimethylphthalate         | 13.914 | 163  | 70760    | 5.902   | ng/u1  | 98       |
| 50) Acenaphthylene            | 14.184 | 152  | 33170    | 2.457   | ng/u1# | 89       |
| 52) Acenaphthene              | 14.525 | 153  | 372741   | 39.764  | ng/u1  | 99       |
| 56) Dibenzofuran              | 14.860 | 168  | 416299   | 31.189  | ng/u1  | 100      |
| 61) Fluorene                  | 15.512 | 166  | 445032   | 40.658  | ng/u1  | 100      |
| 72) Phenanthrene              | 17.345 | 178  | 913482   | 58.205  | ng/u1  | 98       |
| 74) Anthracene                | 17.345 | 178  | 916162   | 58.149  | ng/u1  | 100      |
| 77) Carbazole                 | 17.615 | 167  | 122767   | 8.989   | ng/u1  | 98       |
| 78) Di-n-butylphthalate       | 18.167 | 149  | 87912    | 5.066   | ng/u1  | 99       |
| 80) Fluoranthene              | 19.419 | 202  | 27538    | 1.546   | ng/u1  | 99       |
| 82) Pyrene                    | 19.630 | 202  | 1168289  | 64.749  | ng/u1  | 97       |
| 85) Benzo(a)anthracene        | 21.440 | 228  | 1782027  | 100.739 | ng/u1  | 94       |
| 86) Bis(2-ethylhexyl)phtha... | 21.340 | 149  | 213878   | 21.164  | ng/u1  | 98       |
| 87) Chrysene                  | 21.440 | 228  | 1782418  | 106.229 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.567 | 252  | 1787828  | 87.082  | ng/u1  | 97       |
| 91) Benzo(k)fluoranthene      | 23.620 | 252  | 750089   | 36.633  | ng/u1  | 98       |
| 93) Benzo(a)pyrene            | 24.378 | 252  | 215677   | 11.811  | ng/u1# | 88       |

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Data File : BG058456.D  
Acq On : 25 Jul 2023 21:44  
Operator : CG/JU  
Sample : 03540-03  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

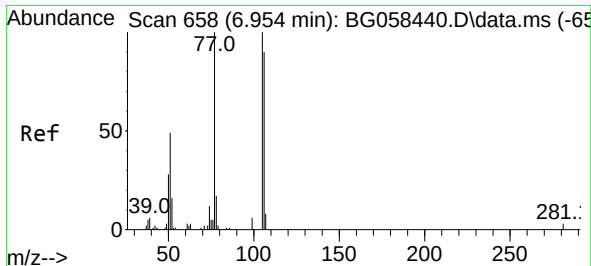
Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jul 25 23:16:30 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071723.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Jul 24 22:10:54 2023  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|----------------------------|--------|------|----------|--------|--------|----------|
| 94) Indeno(1,2,3-cd)pyrene | 28.021 | 276  | 283681   | 11.791 | ng/ul  | 92       |
| 95) Dibenzo(a,h)anthracene | 28.068 | 278  | 260630   | 13.211 | ng/ul# | 92       |

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

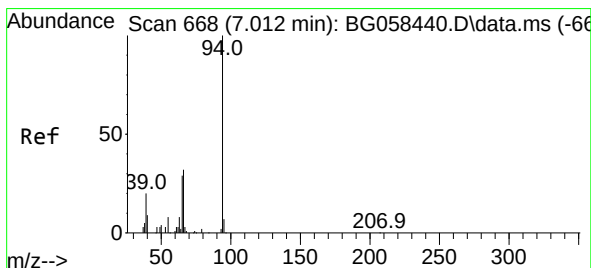
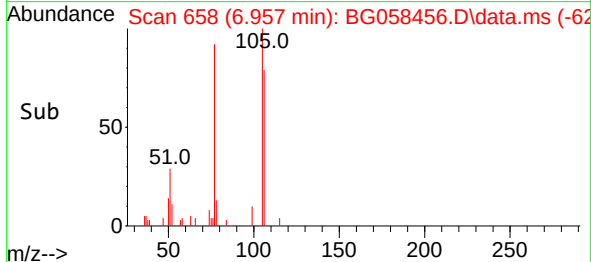
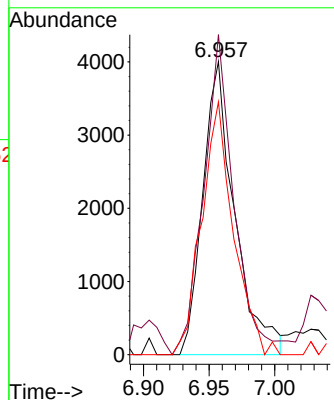
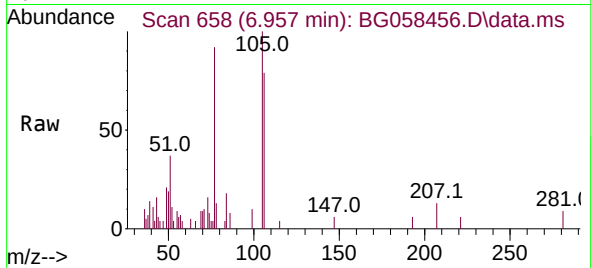




#6  
Benzaldehyde  
Concen: 3.759 ng/ul  
RT: 6.957 min Scan# 658  
Delta R.T. 0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

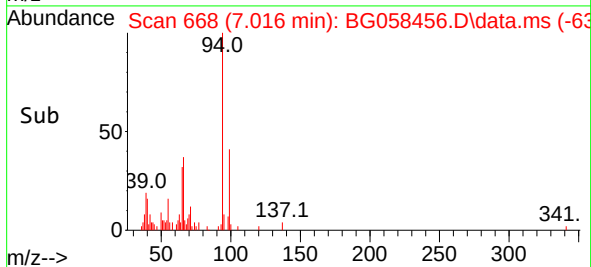
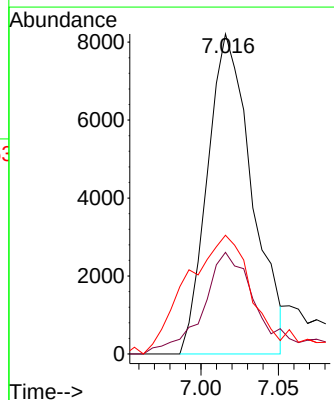
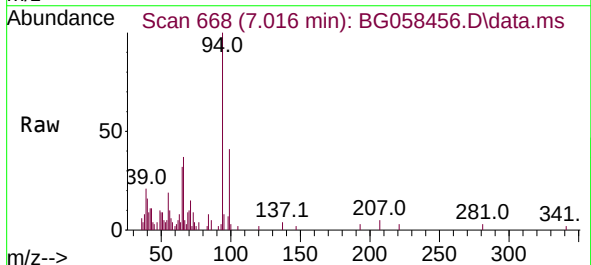
Instrument :  
BNA\_G  
ClientSampleId :

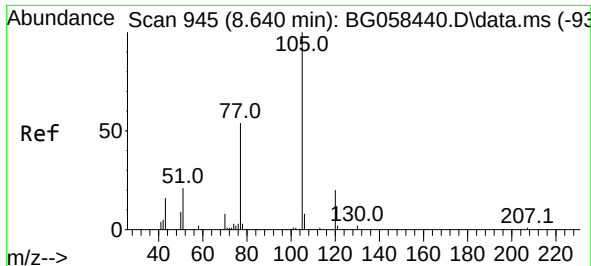
Tgt Ion: 77 Resp: 6784  
Ion Ratio Lower Upper  
77 100  
105 109.2 78.2 117.4  
106 86.3 71.6 107.4



#8  
Phenol  
Concen: 3.530 ng/ul  
RT: 7.016 min Scan# 668  
Delta R.T. 0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

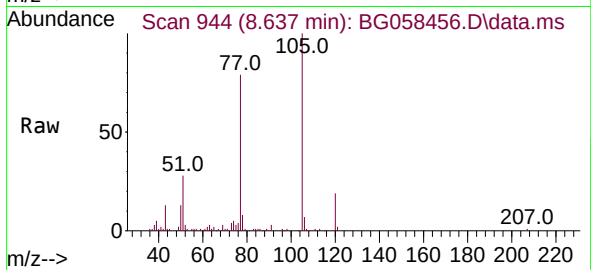
Tgt Ion: 94 Resp: 16381  
Ion Ratio Lower Upper  
94 100  
65 31.8 23.8 35.8  
66 37.1 31.2 46.8



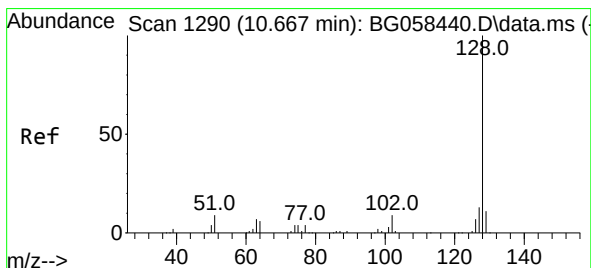
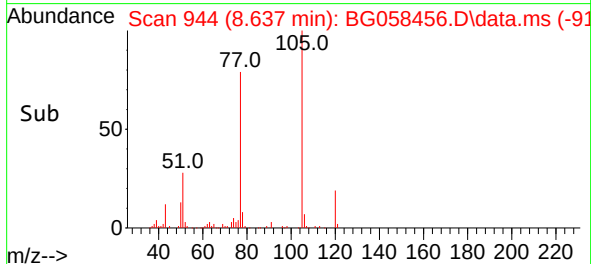
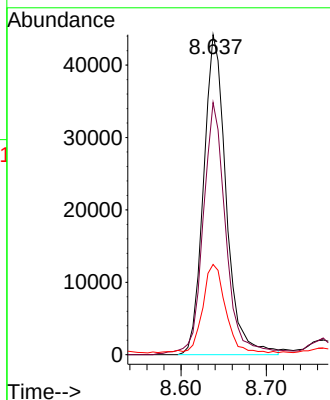


#16  
Acetophenone  
Concen: 14.028 ng/ul  
RT: 8.637 min Scan# 945  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

Instrument :  
BNA\_G  
ClientSampleId :

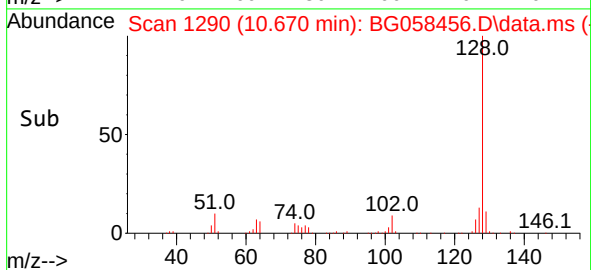
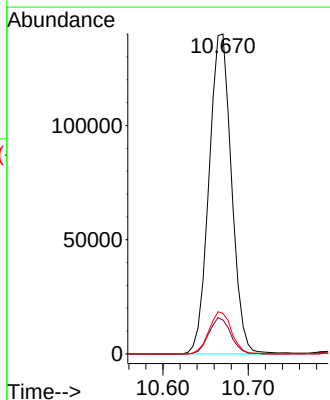
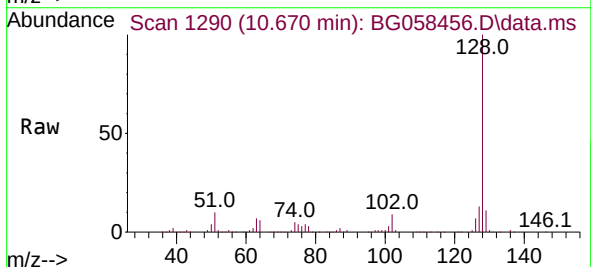


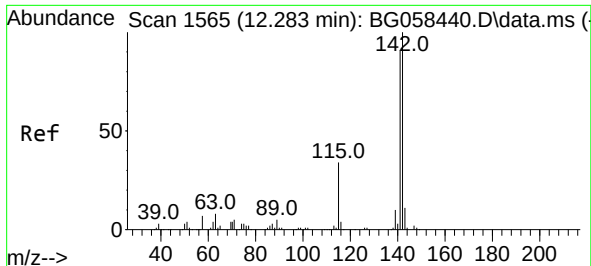
Tgt Ion:105 Resp: 81429  
Ion Ratio Lower Upper  
105 100  
77 78.8 60.7 91.1  
51 28.2 23.5 35.3



#30  
Naphthalene  
Concen: 22.110 ng/ul  
RT: 10.670 min Scan# 1290  
Delta R.T. 0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

Tgt Ion:128 Resp: 256876  
Ion Ratio Lower Upper  
128 100  
129 10.6 8.8 13.2  
127 12.6 10.8 16.2

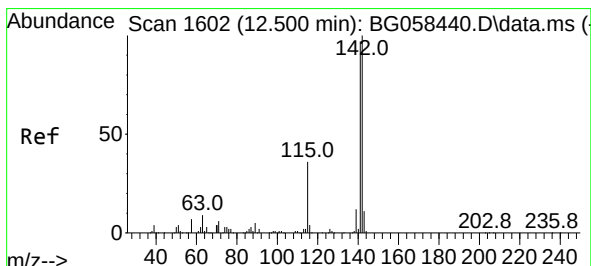
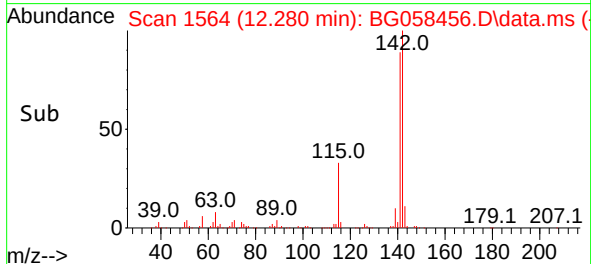
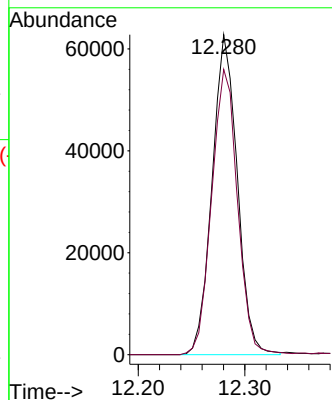
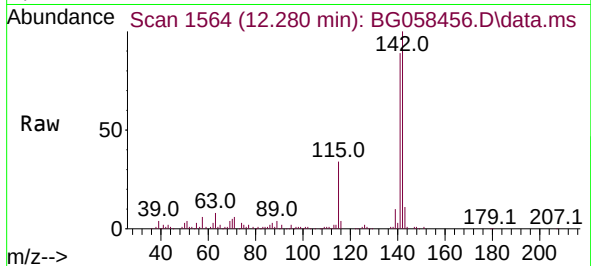




#36  
2-Methylnaphthalene  
Concen: 13.190 ng/ul  
RT: 12.280 min Scan# 1565  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

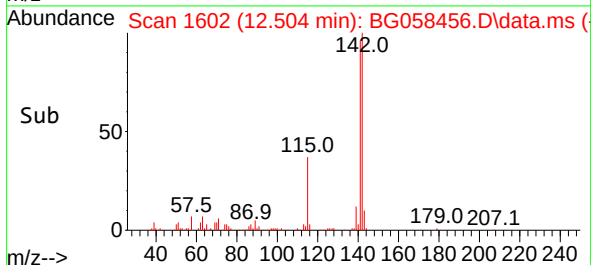
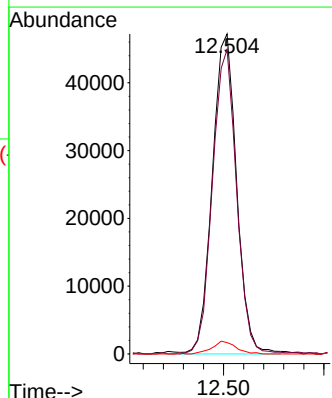
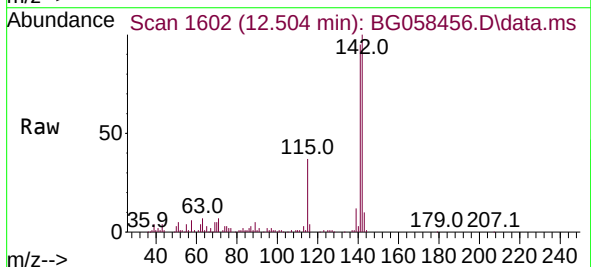
Instrument :  
BNA\_G  
ClientSampleId :

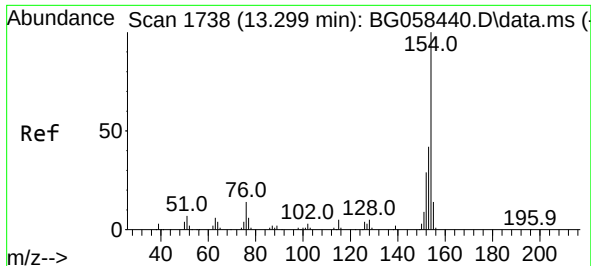
Tgt Ion:142 Resp: 102664  
Ion Ratio Lower Upper  
142 100  
141 89.1 72.6 108.8



#37  
1-Methylnaphthalene  
Concen: 9.952 ng/ul  
RT: 12.504 min Scan# 1602  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

Tgt Ion:142 Resp: 79395  
Ion Ratio Lower Upper  
142 100  
141 95.2 75.8 113.6  
116 3.5 3.2 4.8

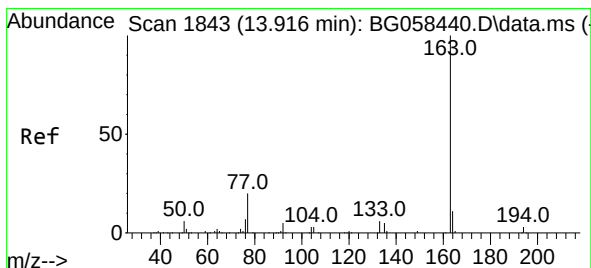
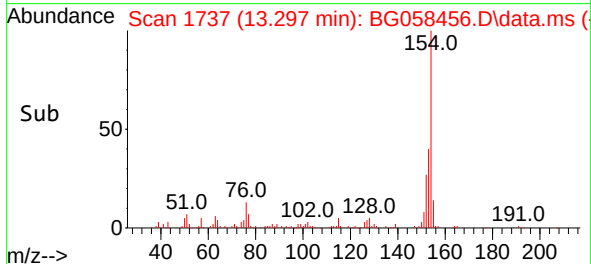
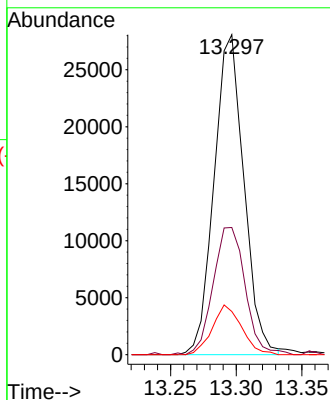
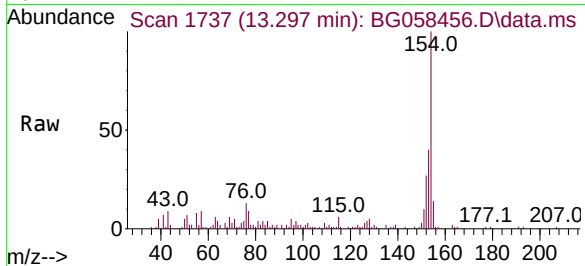




#43  
1,1'-Biphenyl  
Concen: 4.233 ng/ul  
RT: 13.297 min Scan# 1  
Delta R.T. 0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

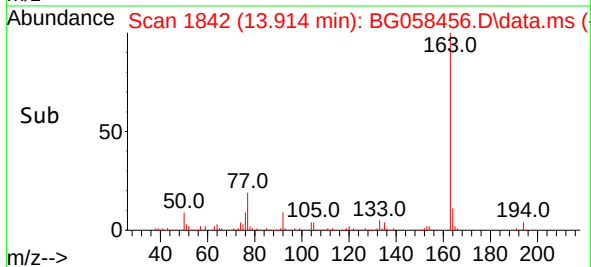
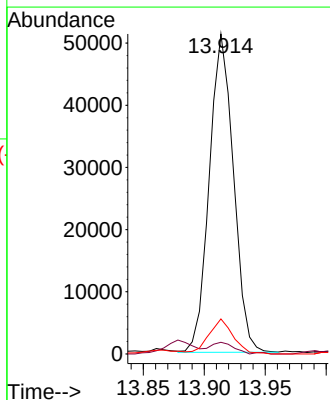
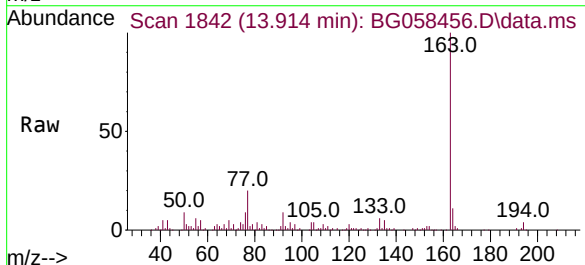
Instrument :  
BNA\_G  
ClientSampleId :

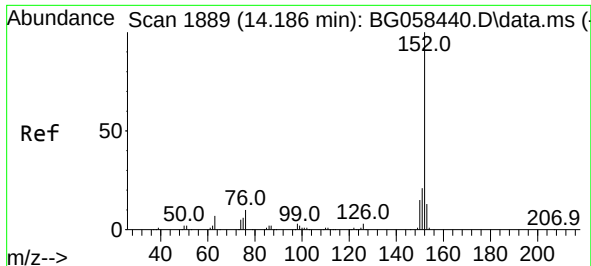
Tgt Ion:154 Resp: 44301  
Ion Ratio Lower Upper  
154 100  
153 39.8 31.8 47.6  
76 13.5 11.7 17.5



#47  
Dimethylphthalate  
Concen: 5.902 ng/ul  
RT: 13.914 min Scan# 1842  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

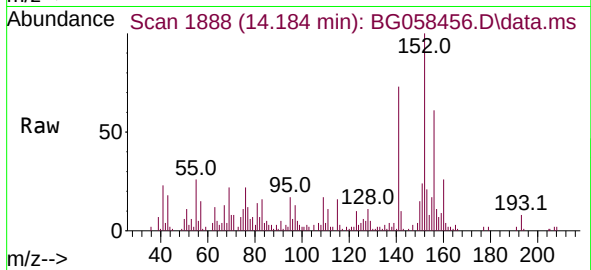
Tgt Ion:163 Resp: 70760  
Ion Ratio Lower Upper  
163 100  
194 3.7 2.6 3.8  
164 10.9 8.2 12.2



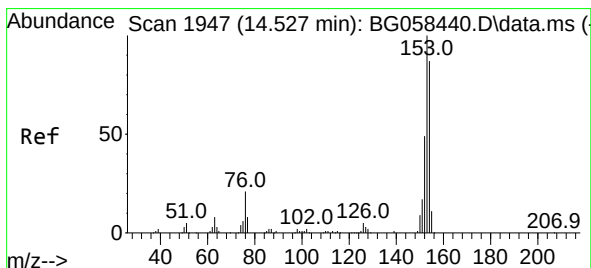
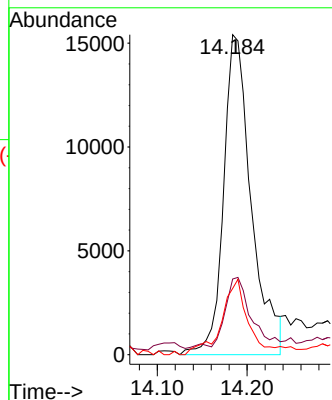
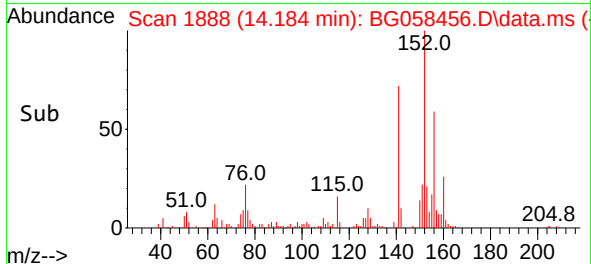


#50  
Acenaphthylene  
Concen: 2.457 ng/ul  
RT: 14.184 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

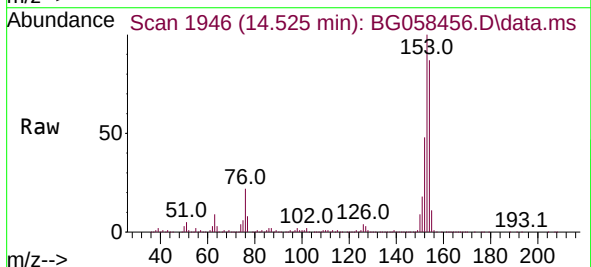
Instrument :  
BNA\_G  
ClientSampleId :



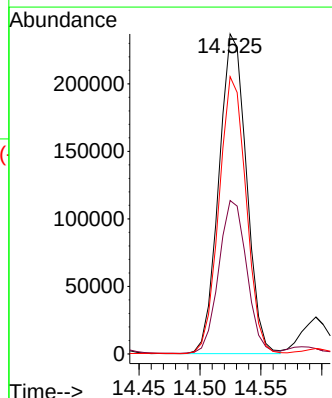
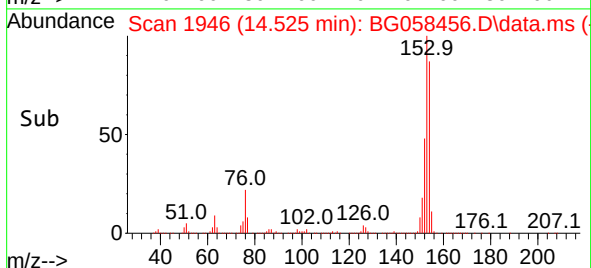
Tgt Ion:152 Resp: 33170  
Ion Ratio Lower Upper  
152 100  
151 23.6 16.4 24.6  
153 20.7 10.6 16.0#



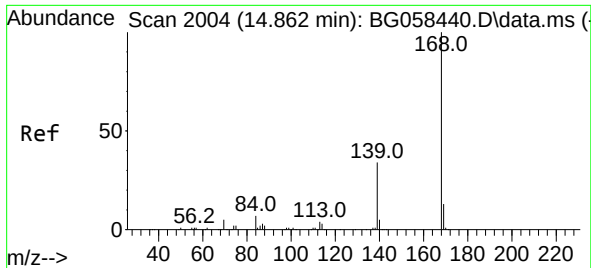
#52  
Acenaphthene  
Concen: 39.764 ng/ul  
RT: 14.525 min Scan# 1946  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44



Tgt Ion:153 Resp: 372741  
Ion Ratio Lower Upper  
153 100  
152 48.0 39.1 58.7  
154 86.7 68.7 103.1



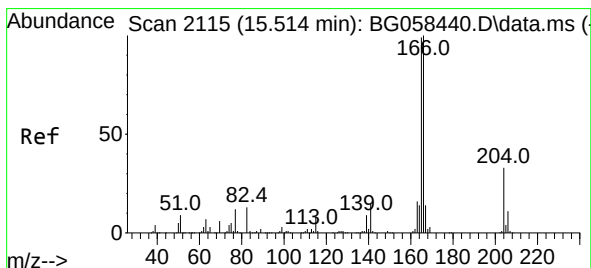
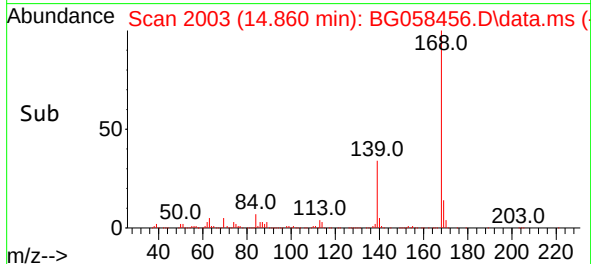
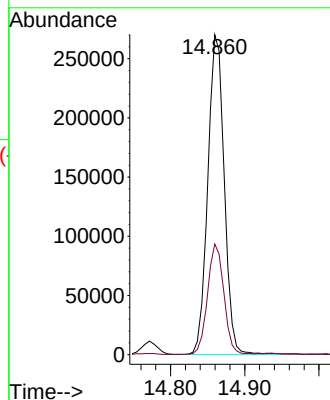
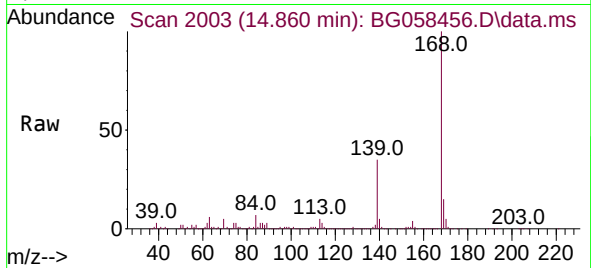




#56  
Dibenzofuran  
Concen: 31.189 ng/ul  
RT: 14.860 min Scan# 2004  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

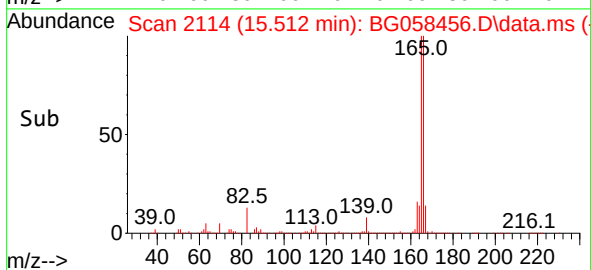
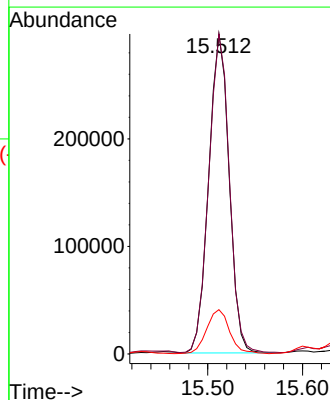
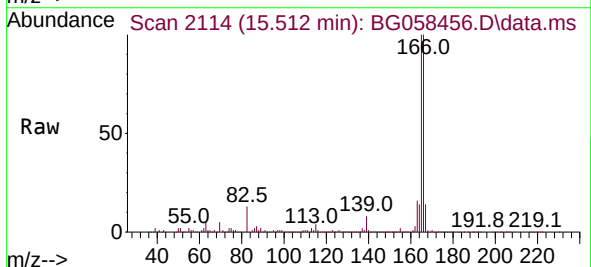
Instrument :  
BNA\_G  
ClientSampleId :

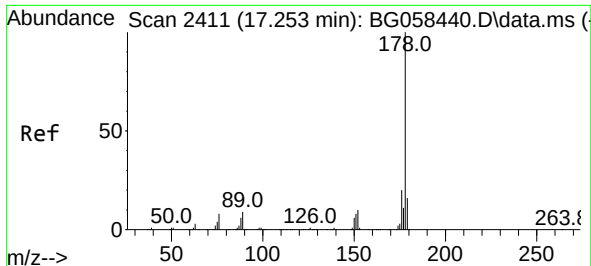
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Ion Ratio Lower Upper  
168 100  
139 34.6 27.8 41.8



#61  
Fluorene  
Concen: 40.658 ng/ul  
RT: 15.512 min Scan# 2114  
Delta R.T. -0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

Tgt Ion:166 Resp: 445032  
Ion Ratio Lower Upper  
166 100  
165 100.0 80.2 120.2  
167 13.9 10.5 15.7

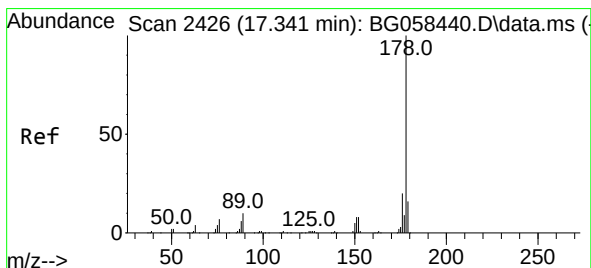
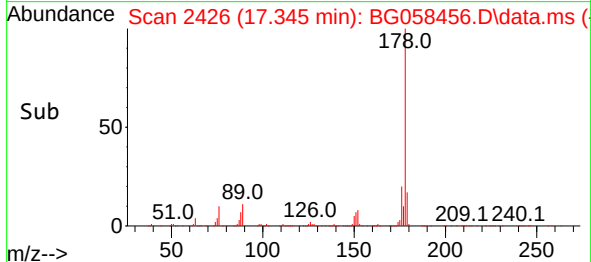
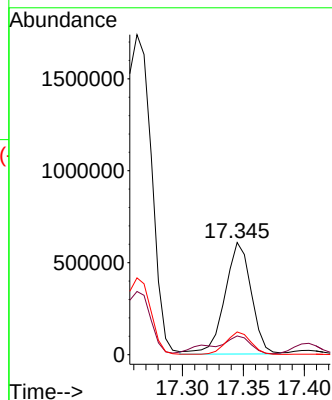
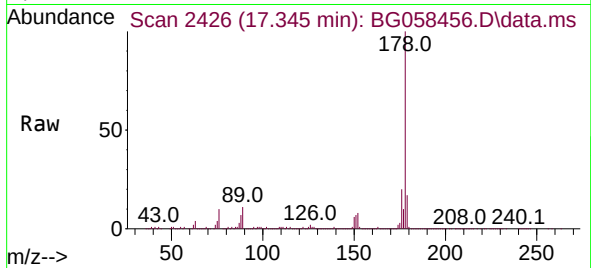




#72  
Phenanthrene  
Concen: 58.205 ng/uI  
RT: 17.345 min Scan# 2411  
Delta R.T. 0.091 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

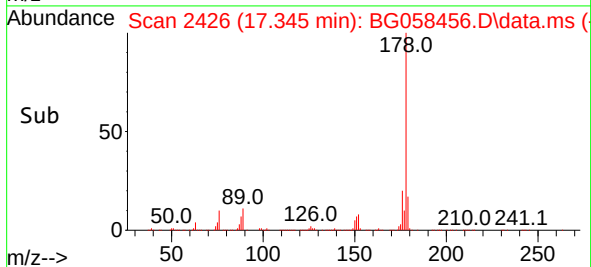
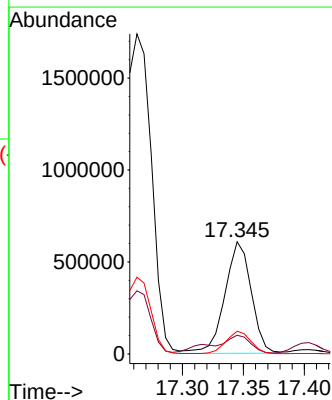
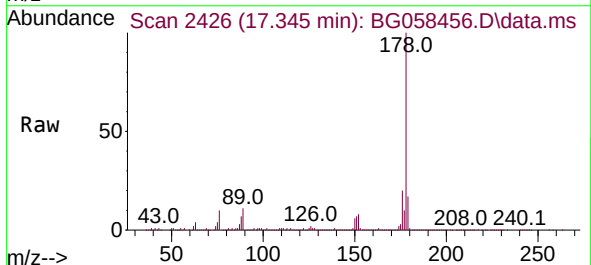
Instrument :  
BNA\_G  
ClientSampleId :

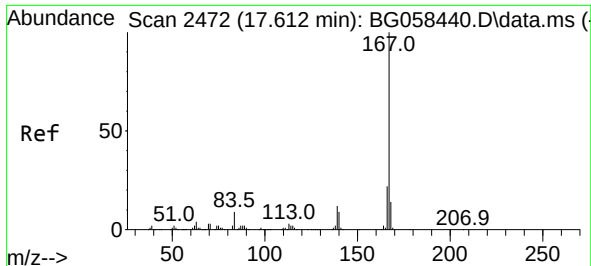
Tgt Ion:178 Resp: 913482  
Ion Ratio Lower Upper  
178 100  
179 16.8 11.9 17.9  
176 20.2 15.8 23.8



#74  
Anthracene  
Concen: 58.149 ng/uI  
RT: 17.345 min Scan# 2426  
Delta R.T. 0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

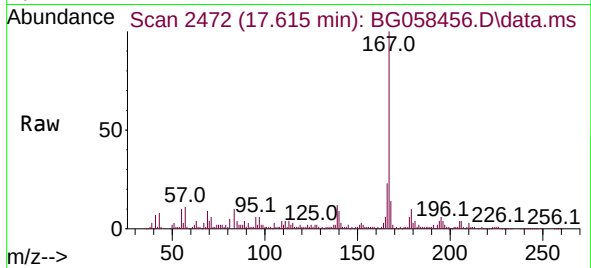
Tgt Ion:178 Resp: 916162  
Ion Ratio Lower Upper  
178 100  
179 16.8 13.4 20.2  
176 20.2 16.2 24.2





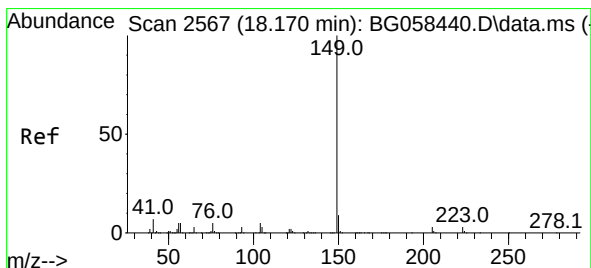
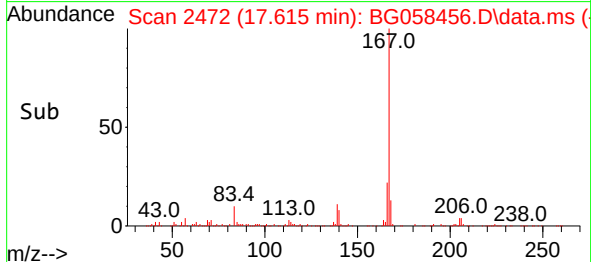
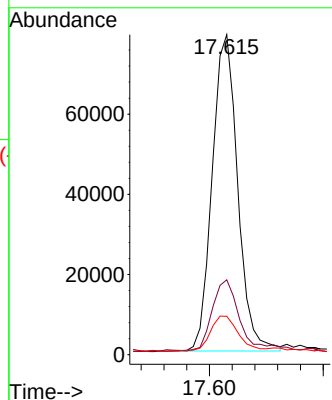
#77  
 Carbazole  
 Concen: 8.989 ng/ul  
 RT: 17.615 min Scan# 2472  
 Delta R.T. -0.003 min  
 Lab File: BG058456.D  
 Acq: 25 Jul 2023 21:44

Instrument :  
 BNA\_G  
 ClientSampleId :



Tgt Ion:167 Resp: 122767  

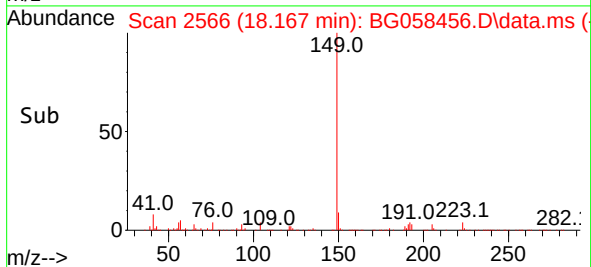
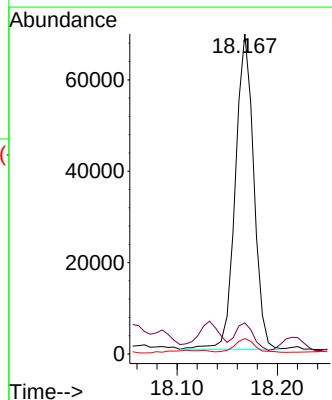
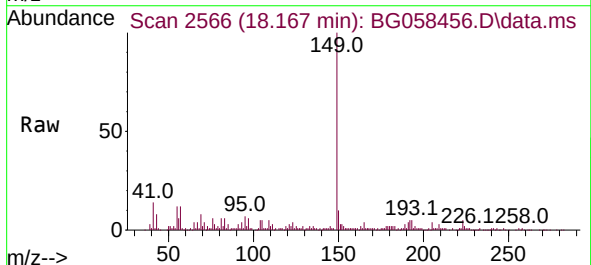
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 23.4  | 17.8  | 26.8  |
| 139 | 12.0  | 9.4   | 14.0  |

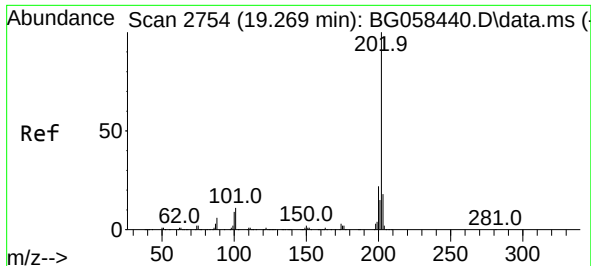


#78  
 Di-n-butylphthalate  
 Concen: 5.066 ng/ul  
 RT: 18.167 min Scan# 2566  
 Delta R.T. -0.003 min  
 Lab File: BG058456.D  
 Acq: 25 Jul 2023 21:44

Tgt Ion:149 Resp: 87912  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 150 | 9.7   | 7.2   | 10.8  |
| 104 | 4.8   | 3.9   | 5.9   |

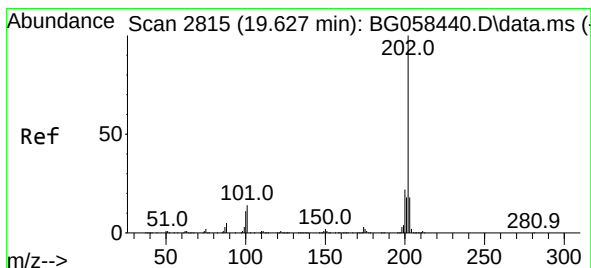
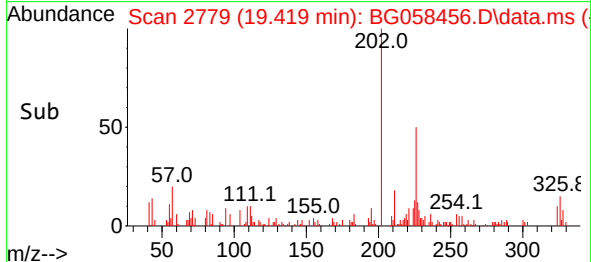
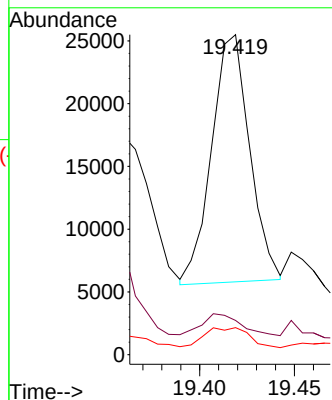
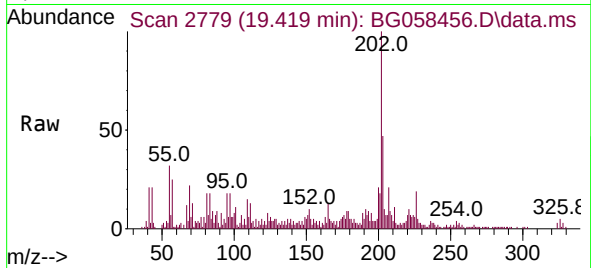




#80  
Fluoranthene  
Concen: 1.546 ng/ul  
RT: 19.419 min Scan# 21  
Delta R.T. 0.150 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

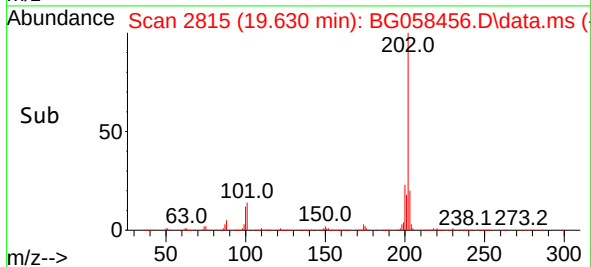
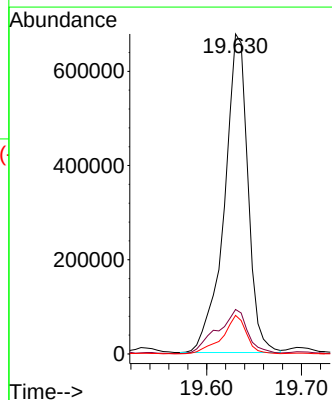
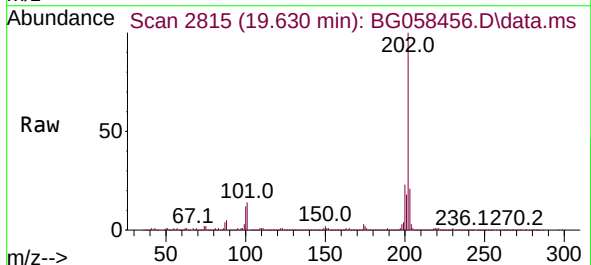
Instrument :  
BNA\_G  
ClientSampleId :

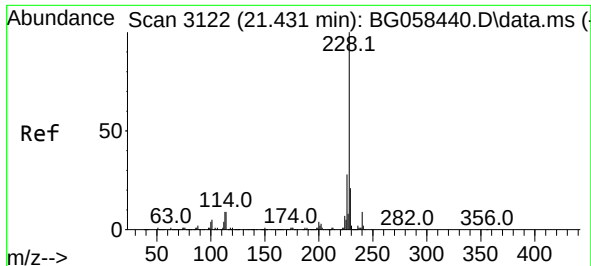
Tgt Ion:202 Resp: 27538  
Ion Ratio Lower Upper  
202 100  
101 10.7 8.6 12.8  
100 8.5 7.2 10.8



#82  
Pyrene  
Concen: 64.749 ng/ul  
RT: 19.630 min Scan# 2815  
Delta R.T. 0.003 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

Tgt Ion:202 Resp: 1168289  
Ion Ratio Lower Upper  
202 100  
101 13.9 10.2 15.2  
100 12.0 8.9 13.3

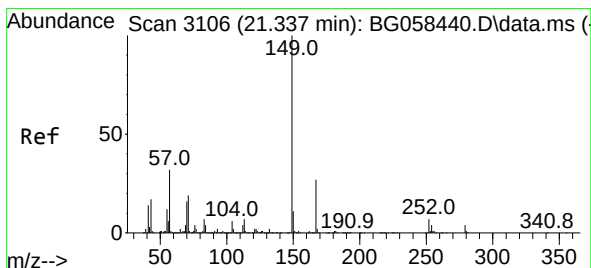
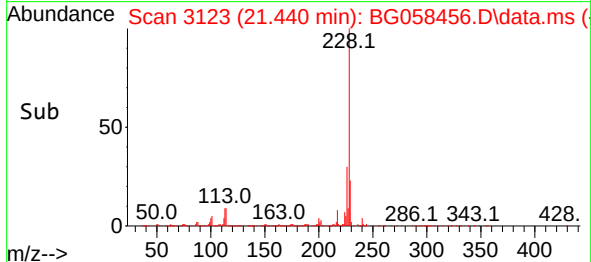
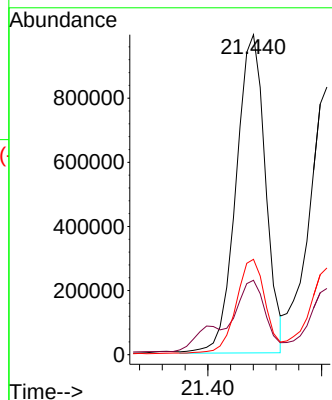
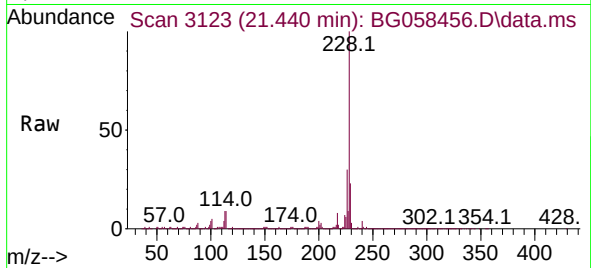




#85  
 Benzo(a)anthracene  
 Concen: 100.739 ng/ul  
 RT: 21.440 min Scan# 3123  
 Delta R.T. 0.009 min  
 Lab File: BG058456.D  
 Acq: 25 Jul 2023 21:44

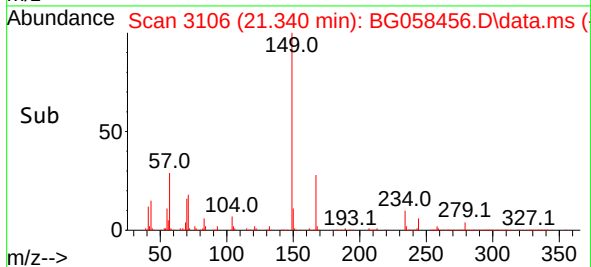
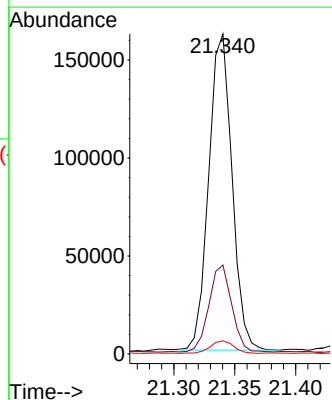
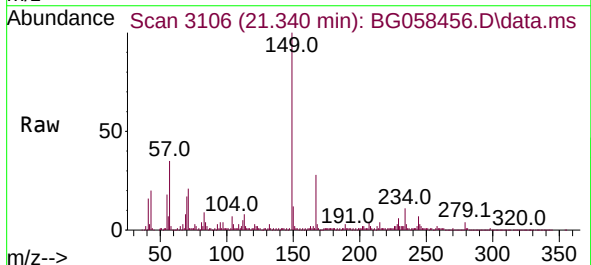
Instrument :  
 BNA\_G  
 ClientSampleId :

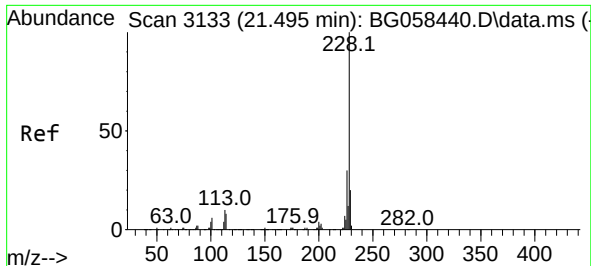
Tgt Ion:228 Resp: 1782027  
 Ion Ratio Lower Upper  
 228 100  
 229 23.2 15.7 23.5  
 226 29.8 21.8 32.8



#86  
 Bis(2-ethylhexyl)phthalate  
 Concen: 21.164 ng/ul  
 RT: 21.340 min Scan# 3106  
 Delta R.T. 0.003 min  
 Lab File: BG058456.D  
 Acq: 25 Jul 2023 21:44

Tgt Ion:149 Resp: 213878  
 Ion Ratio Lower Upper  
 149 100  
 167 27.8 21.6 32.4  
 279 4.1 3.0 4.4

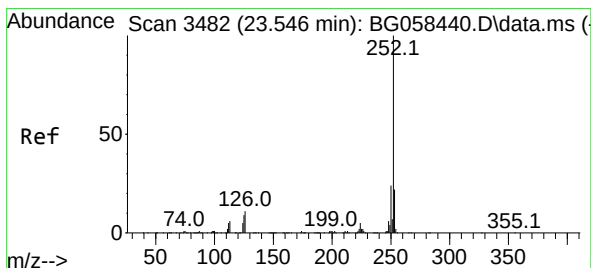
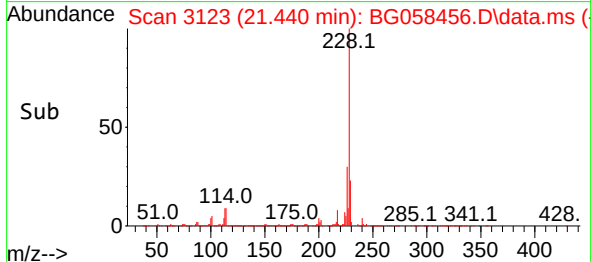
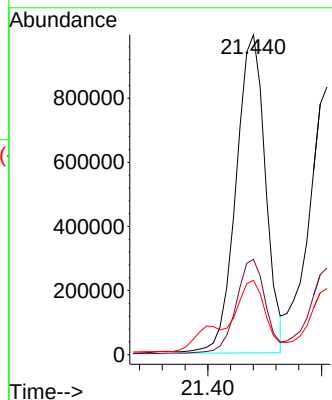
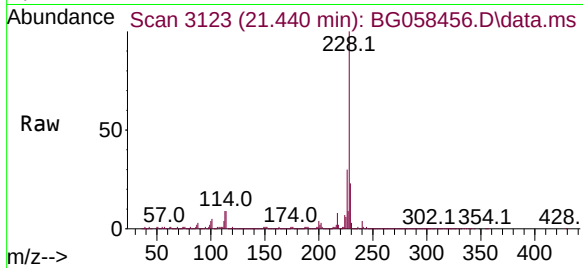




#87  
Chrysene  
Concen: 106.229 ng/ul  
RT: 21.440 min Scan# 3133  
Delta R.T. -0.056 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

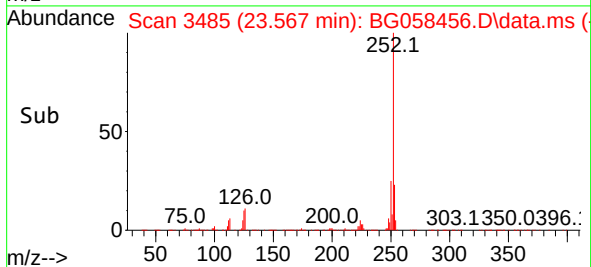
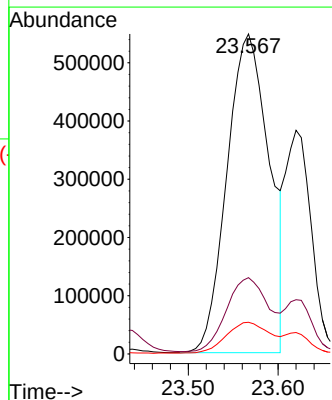
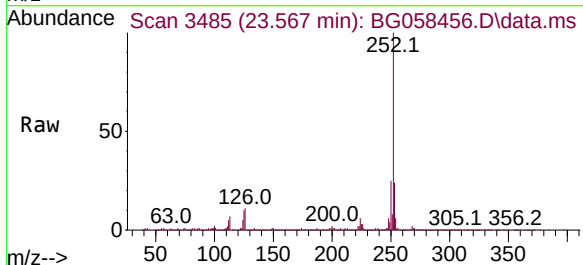
Instrument :  
BNA\_G  
ClientSampleId :

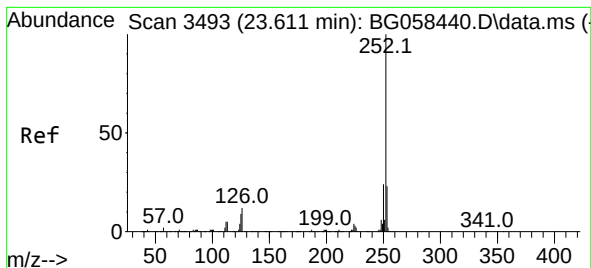
Tgt Ion:228 Resp: 1782418  
Ion Ratio Lower Upper  
228 100  
226 29.8 24.0 36.0  
229 23.2 15.8 23.8



#90  
Benzo(b)fluoranthene  
Concen: 87.082 ng/ul  
RT: 23.567 min Scan# 3485  
Delta R.T. 0.020 min  
Lab File: BG058456.D  
Acq: 25 Jul 2023 21:44

Tgt Ion:252 Resp: 1787828  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.9 26.9  
125 9.9 6.7 10.1





#91

Benzo(k)fluoranthene

Concen: 36.633 ng/ul

RT: 23.620 min Scan# 3494

Delta R.T. 0.009 min

Lab File: BG058456.D

Acq: 25 Jul 2023 21:44

Instrument :

BNA\_G

ClientSampleId :

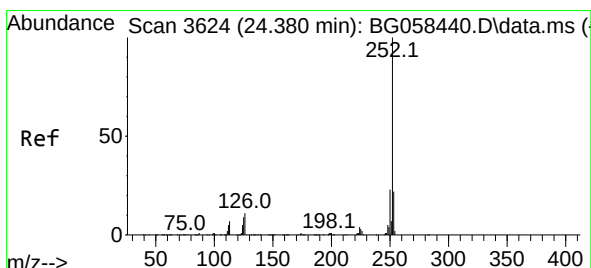
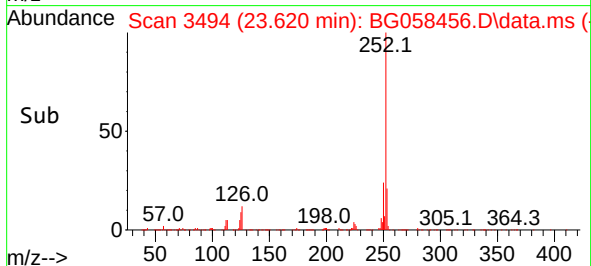
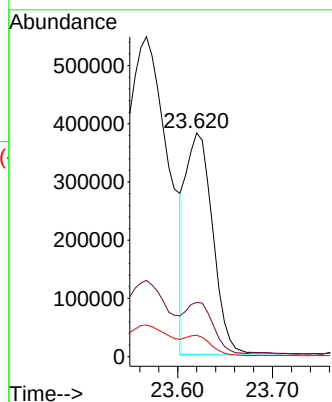
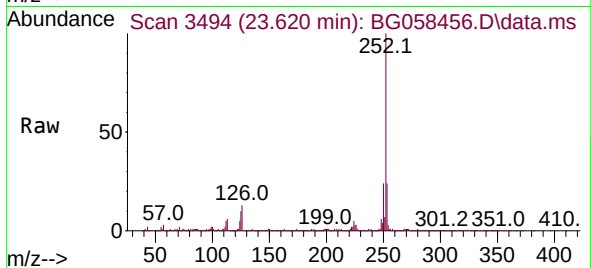
Tgt Ion:252 Resp: 750089

Ion Ratio Lower Upper

252 100

253 24.3 18.3 27.5

125 9.6 7.4 11.0



#93

Benzo(a)pyrene

Concen: 11.811 ng/ul

RT: 24.378 min Scan# 3623

Delta R.T. 0.003 min

Lab File: BG058456.D

Acq: 25 Jul 2023 21:44

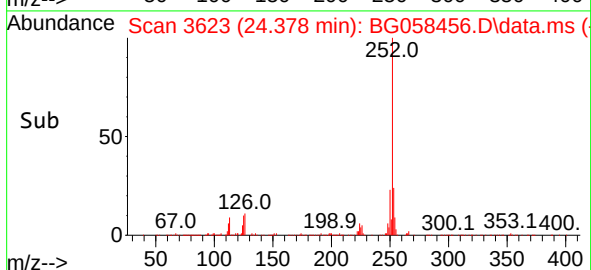
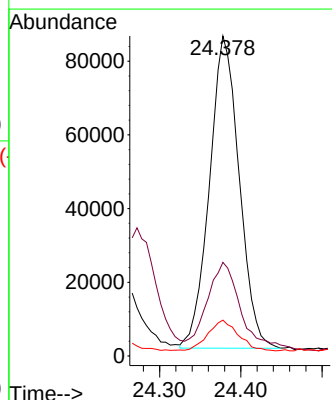
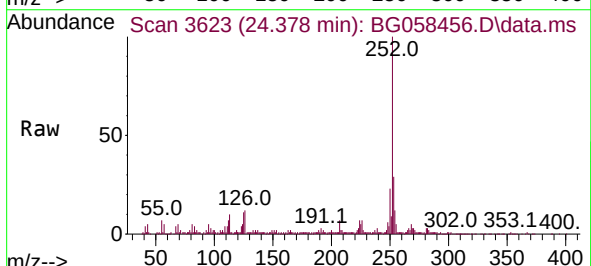
Tgt Ion:252 Resp: 215677

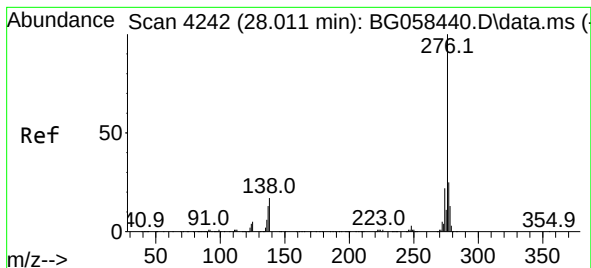
Ion Ratio Lower Upper

252 100

253 29.2 17.4 26.0#

125 11.2 7.7 11.5





#94

Indeno(1,2,3-cd)pyrene

Concen: 11.791 ng/ul

RT: 28.021 min Scan# 41

Delta R.T. 0.009 min

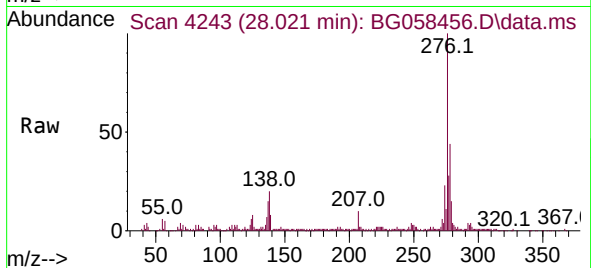
Lab File: BG058456.D

Acq: 25 Jul 2023 21:44

Instrument :

BNA\_G

ClientSampleId :



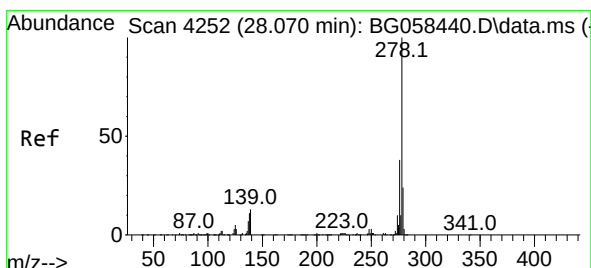
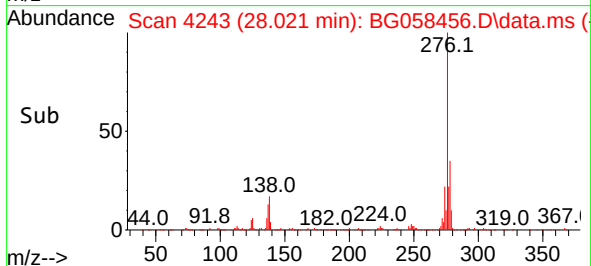
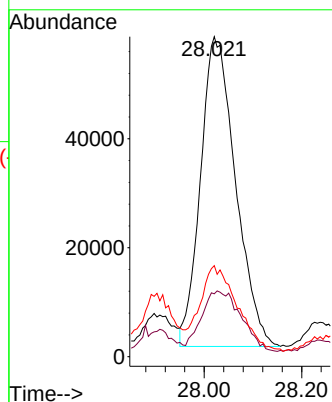
Tgt Ion:276 Resp: 283681

Ion Ratio Lower Upper

276 100

138 19.7 13.8 20.6

277 28.5 19.2 28.8



#95

Dibenzo(a,h)anthracene

Concen: 13.211 ng/ul

RT: 28.068 min Scan# 4251

Delta R.T. -0.003 min

Lab File: BG058456.D

Acq: 25 Jul 2023 21:44

Tgt Ion:278 Resp: 260630

Ion Ratio Lower Upper

278 100

139 12.5 10.4 15.6

279 29.0 18.4 27.6#

