

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050124\  
 Data File : BG061077.D  
 Acq On : 1 May 2024 15:22  
 Operator : MA/JU  
 Sample : P2307-08  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: May 01 16:35:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 01 05:11:25 2024  
 Response via : Initial Calibration

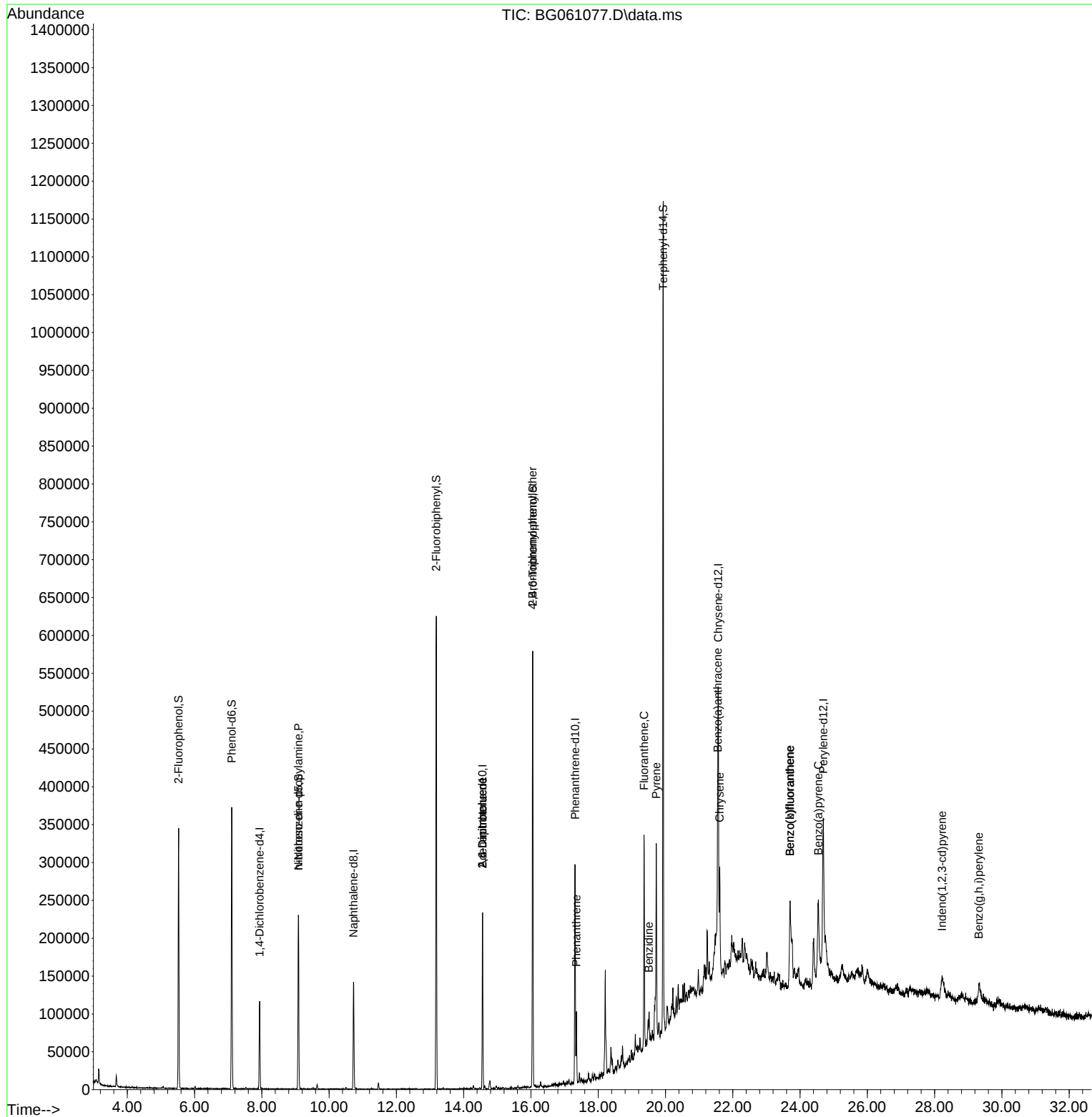
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.935  | 152  | 28381    | 20.000    | ng    | -0.03    |
| 21) Naphthalene-d8            | 10.725 | 136  | 109998   | 20.000    | ng    | -0.03    |
| 39) Acenaphthene-d10          | 14.562 | 164  | 83009    | 20.000    | ng    | -0.03    |
| 64) Phenanthrene-d10          | 17.312 | 188  | 189326   | 20.000    | ng    | -0.02    |
| 76) Chrysene-d12              | 21.566 | 240  | 183589   | 20.000    | ng    | -0.03    |
| 86) Perylene-d12              | 24.691 | 264  | 230030   | 20.000    | ng    | #-0.04   |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.526  | 112  | 120227   | 86.153    | ng    | -0.02    |
| 7) Phenol-d6                  | 7.106  | 99   | 158273   | 76.668    | ng    | -0.03    |
| 23) Nitrobenzene-d5           | 9.086  | 82   | 116591   | 52.543    | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol      | 16.055 | 330  | 125495   | 75.636    | ng    | -0.02    |
| 45) 2-Fluorobiphenyl          | 13.187 | 172  | 318487   | 56.735    | ng    | -0.02    |
| 79) Terphenyl-d14             | 19.932 | 244  | 577830   | 52.346    | ng    | -0.02    |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 7.112  | 77   | 188      | Below Cal | #     | 3        |
| 19) n-Nitroso-di-n-propyla... | 9.086  | 70   | 17893    | 11.582    | ng    | # 54     |
| 51) 2,6-Dinitrotoluene        | 14.562 | 165  | 10563    | 7.702     | ng    | # 15     |
| 57) 2,4-Dinitrotoluene        | 14.562 | 165  | 10563    | 5.206     | ng    | # 17     |
| 67) 4-Bromophenyl-phenylether | 16.049 | 248  | 7914     | 3.548     | ng    | # 1      |
| 71) Phenanthrene              | 17.353 | 178  | 58258    | 6.730     | ng    | 97       |
| 75) Fluoranthene              | 19.362 | 202  | 177211   | 14.942    | ng    | 99       |
| 77) Benzidine                 | 19.503 | 184  | 697      | 2.983     | ng    | # 35     |
| 78) Pyrene                    | 19.727 | 202  | 171219   | 14.669    | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.548 | 228  | 98749    | 8.220     | ng    | 98       |
| 83) Chrysene                  | 21.613 | 228  | 99854    | 8.872     | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.223 | 276  | 64127    | 4.207     | ng    | # 58     |
| 88) Benzo(b)fluoranthene      | 23.704 | 252  | 146459   | 11.394    | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.704 | 252  | 146459   | 11.844    | ng    | 97       |
| 90) Benzo(a)pyrene            | 24.545 | 252  | 96779    | 8.642     | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 29.315 | 276  | 30064    | 2.396     | ng    | # 93     |

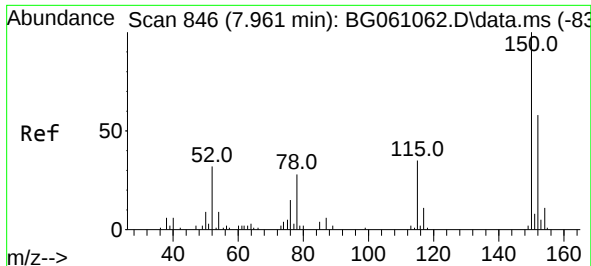
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050124\  
Data File : BG061077.D  
Acq On : 1 May 2024 15:22  
Operator : MA/JU  
Sample : P2307-08  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: May 01 16:35:11 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG043024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 01 05:11:25 2024  
Response via : Initial Calibration

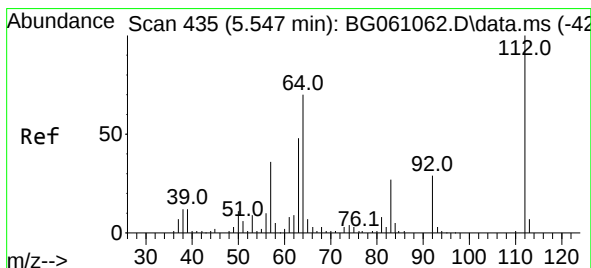
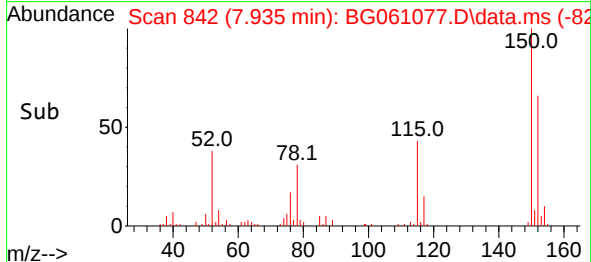
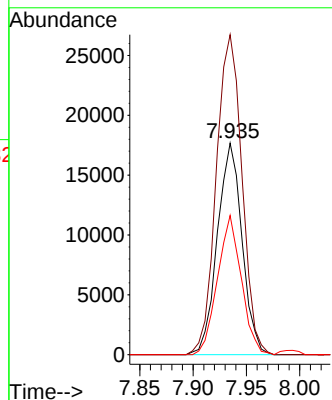
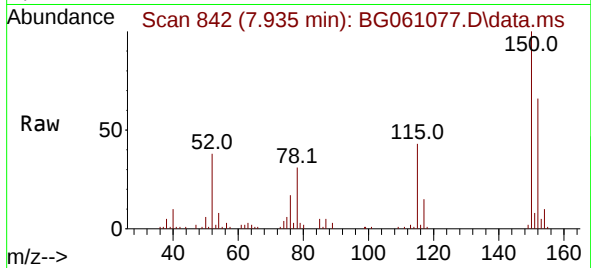




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.935 min Scan# 84  
 Delta R.T. -0.026 min  
 Lab File: BG061077.D  
 Acq: 1 May 2024 15:22

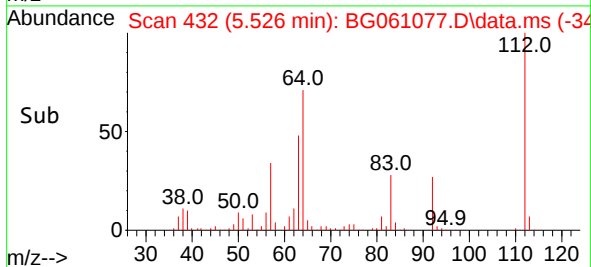
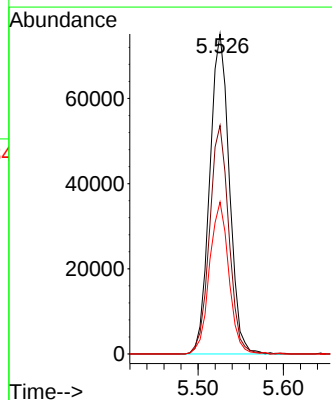
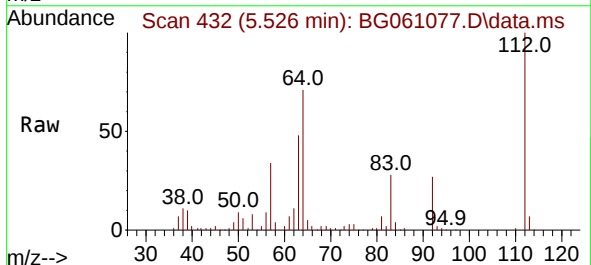
Instrument :  
 BNA\_G  
 ClientSampleId :

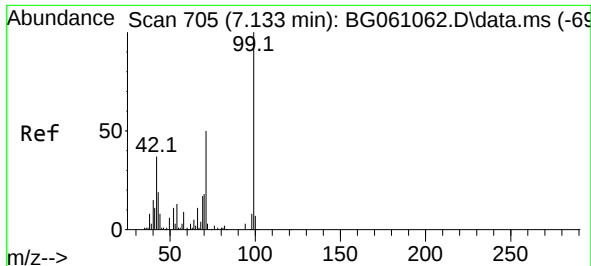
Tgt Ion:152 Resp: 28381  
 Ion Ratio Lower Upper  
 152 100  
 150 151.3 138.3 207.5  
 115 65.8 48.0 72.0



#5  
 2-Fluorophenol  
 Concen: 86.153 ng  
 RT: 5.526 min Scan# 432  
 Delta R.T. -0.021 min  
 Lab File: BG061077.D  
 Acq: 1 May 2024 15:22

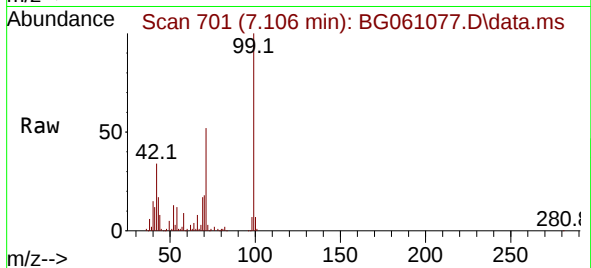
Tgt Ion:112 Resp: 120227  
 Ion Ratio Lower Upper  
 112 100  
 64 71.4 55.7 83.5  
 63 47.5 38.1 57.1



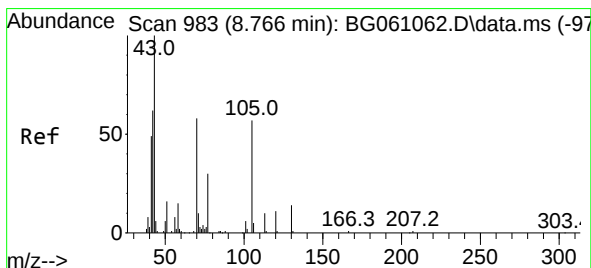
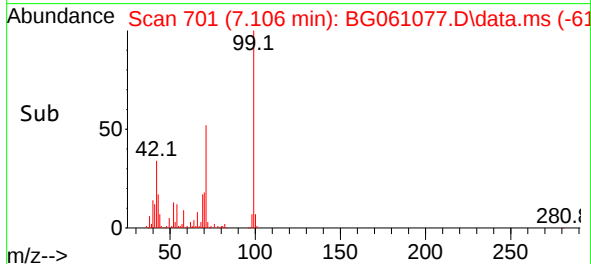
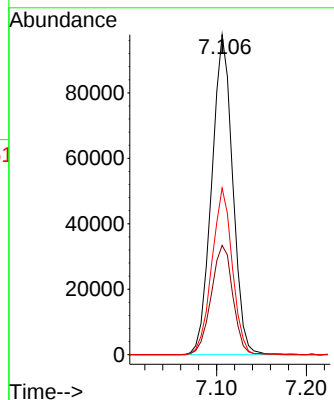


#7  
Phenol-d6  
Concen: 76.668 ng  
RT: 7.106 min Scan# 705  
Delta R.T. -0.027 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

Instrument :  
BNA\_G  
ClientSampleId :

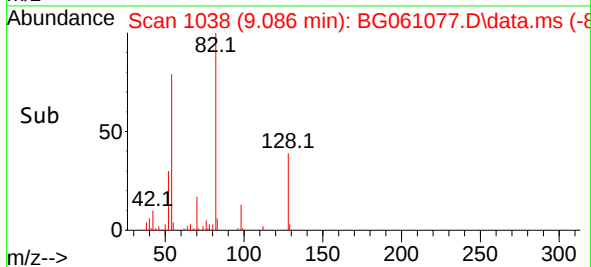
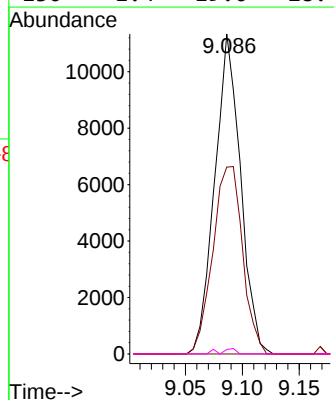
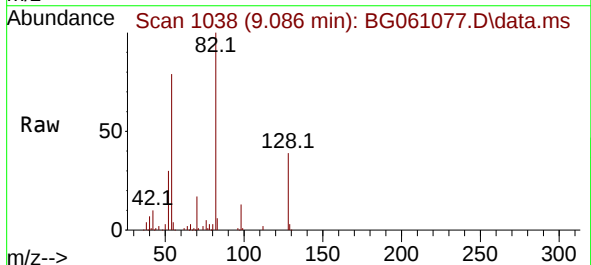


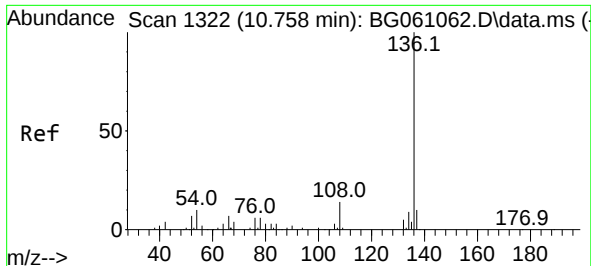
Tgt Ion: 99 Resp: 158273  
Ion Ratio Lower Upper  
99 100  
42 34.1 29.2 43.8  
71 52.1 39.7 59.5



#19  
n-Nitroso-di-n-propylamine  
Concen: 11.582 ng  
RT: 9.086 min Scan# 1038  
Delta R.T. 0.320 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

Tgt Ion: 70 Resp: 17893  
Ion Ratio Lower Upper  
70 100  
42 58.4 86.4 129.6#  
101 0.0 7.8 11.8#  
130 1.4 19.0 28.4#

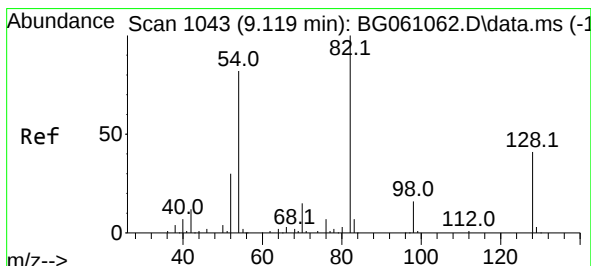
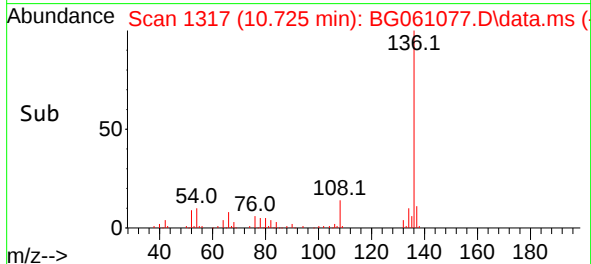
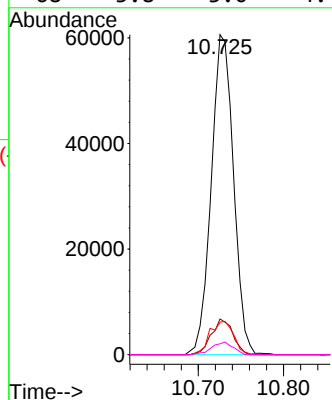
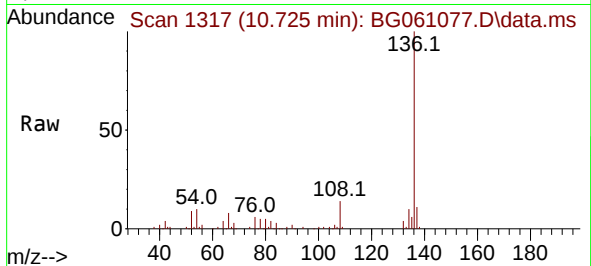




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.725 min Scan# 11  
Delta R.T. -0.033 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

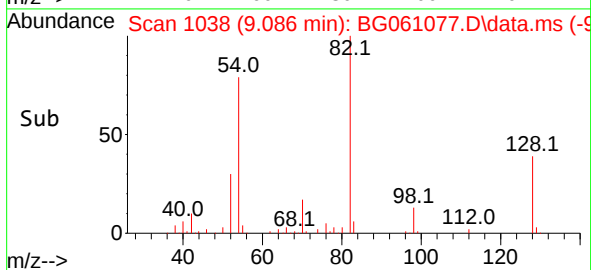
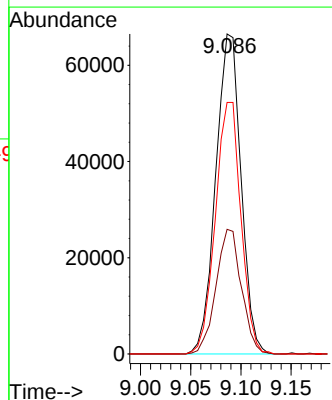
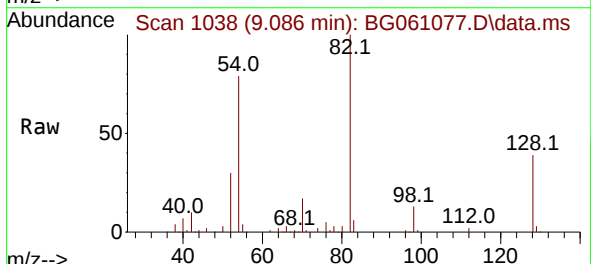
Instrument :  
BNA\_G  
ClientSampleId :

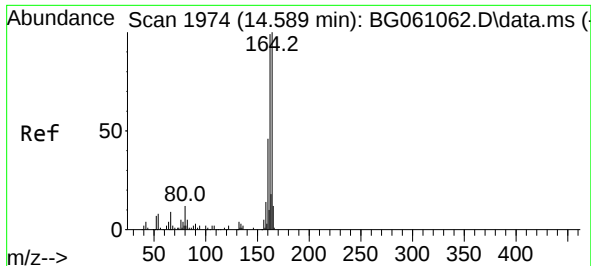
|             |              |
|-------------|--------------|
| Tgt Ion:136 | Resp: 109998 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.1    | 7.8 11.6     |
| 54 10.1     | 8.1 12.1     |
| 68 3.8      | 3.0 4.4      |



#23  
Nitrobenzene-d5  
Concen: 52.543 ng  
RT: 9.086 min Scan# 1038  
Delta R.T. -0.033 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

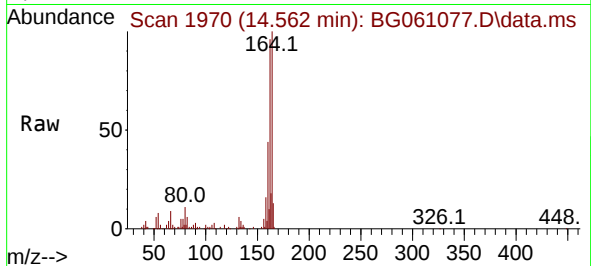
|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 116591 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 39.0    | 32.7 49.1    |
| 54 78.6     | 65.6 98.4    |



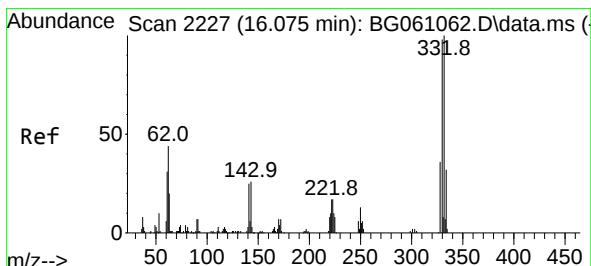
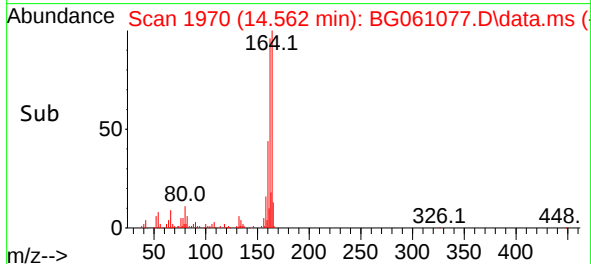
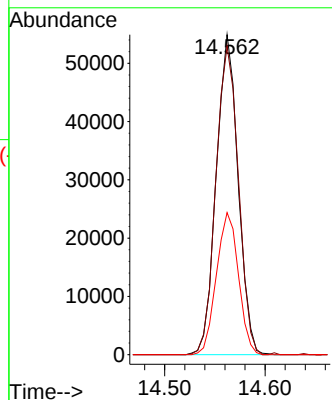


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.562 min Scan# 1970  
Delta R.T. -0.027 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

Instrument :  
BNA\_G  
ClientSampleId :

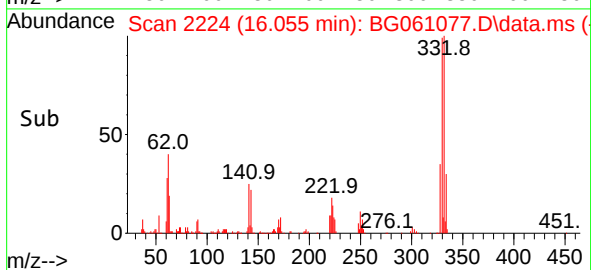
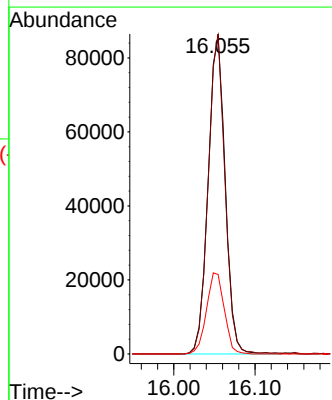
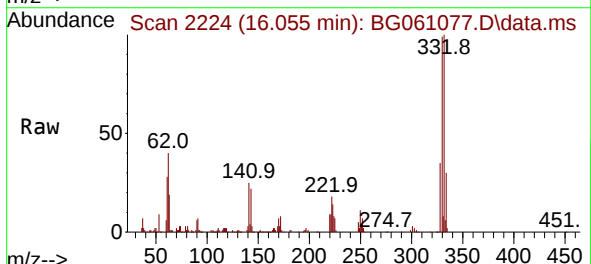


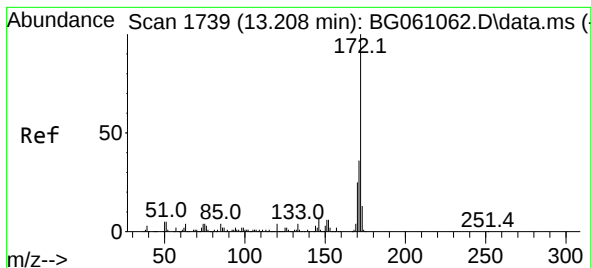
Tgt Ion:164 Resp: 83009  
Ion Ratio Lower Upper  
164 100  
162 96.4 79.4 119.2  
160 44.4 37.0 55.6



#42  
2,4,6-Tribromophenol  
Concen: 75.636 ng  
RT: 16.055 min Scan# 2224  
Delta R.T. -0.021 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

Tgt Ion:330 Resp: 125495  
Ion Ratio Lower Upper  
330 100  
332 98.1 78.6 117.8  
141 26.5 20.5 30.7





#45

2-Fluorobiphenyl

Concen: 56.735 ng

RT: 13.187 min Scan# 1

Delta R.T. -0.021 min

Lab File: BG061077.D

Acq: 1 May 2024 15:22

Instrument :

BNA\_G

ClientSampleId :

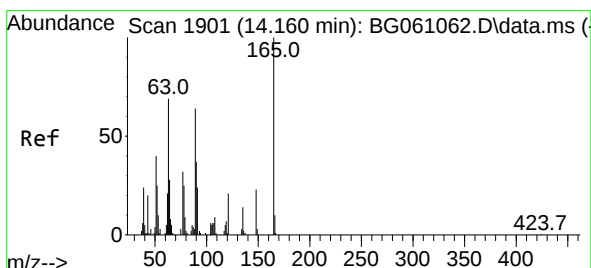
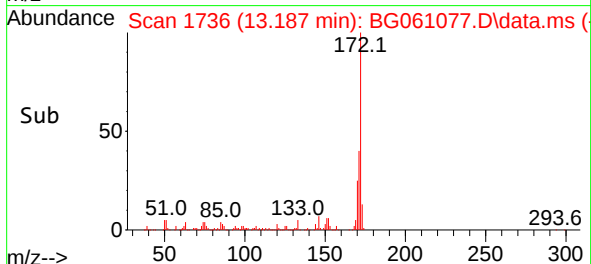
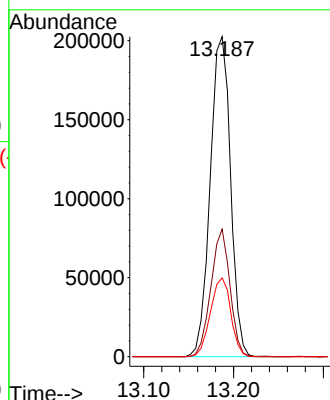
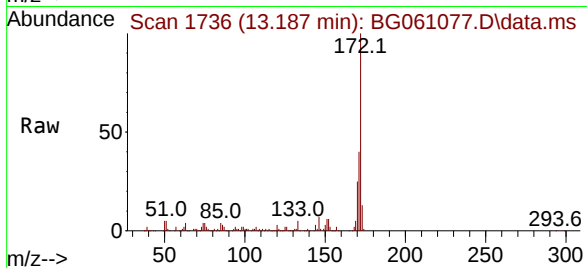
Tgt Ion:172 Resp: 318487

Ion Ratio Lower Upper

172 100

171 39.9 29.0 43.6

170 24.6 20.2 30.4



#51

2,6-Dinitrotoluene

Concen: 7.702 ng

RT: 14.562 min Scan# 1970

Delta R.T. 0.402 min

Lab File: BG061077.D

Acq: 1 May 2024 15:22

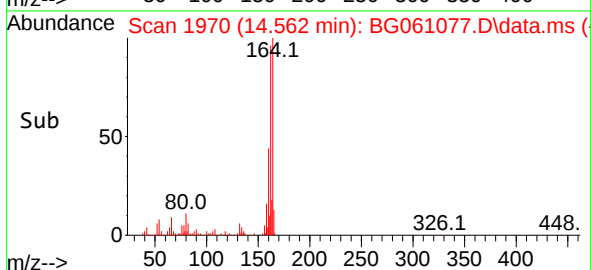
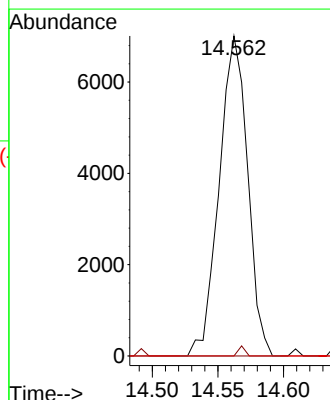
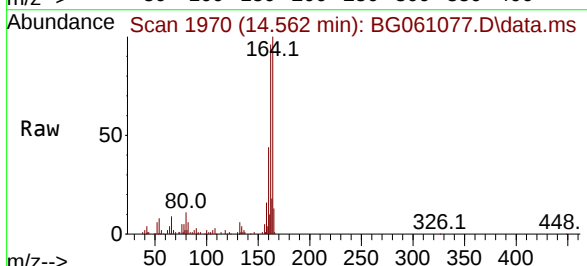
Tgt Ion:165 Resp: 10563

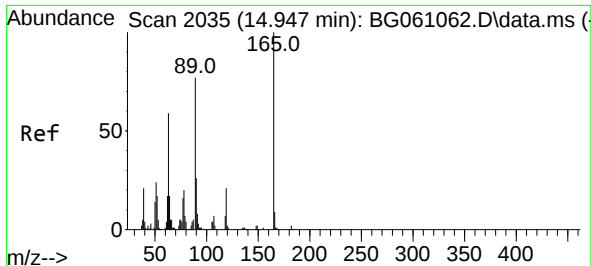
Ion Ratio Lower Upper

165 100

63 0.0 60.0 90.0#

89 0.0 50.9 76.3#





#57

2,4-Dinitrotoluene

Concen: 5.206 ng

RT: 14.562 min Scan# 14

Delta R.T. -0.385 min

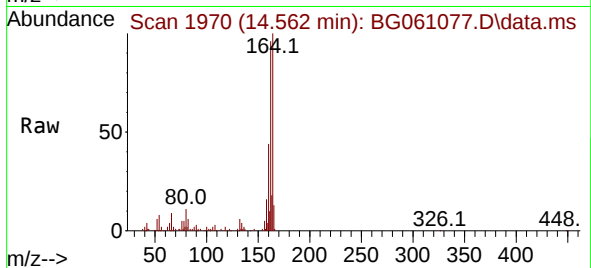
Lab File: BG061077.D

Acq: 1 May 2024 15:22

Instrument :

BNA\_G

ClientSampleId :



Tgt Ion:165 Resp: 10563

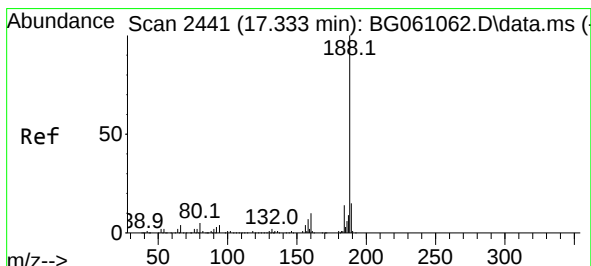
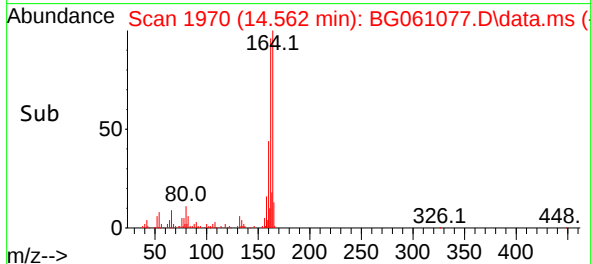
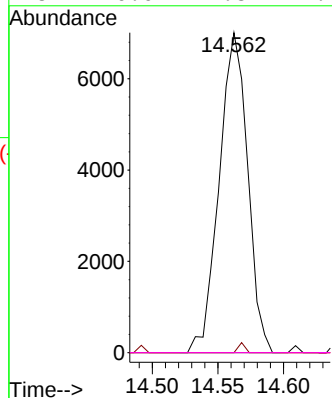
Ion Ratio Lower Upper

165 100

63 0.0 47.3 70.9#

89 0.0 61.8 92.8#

182 0.0 1.8 2.6#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.312 min Scan# 2438

Delta R.T. -0.021 min

Lab File: BG061077.D

Acq: 1 May 2024 15:22

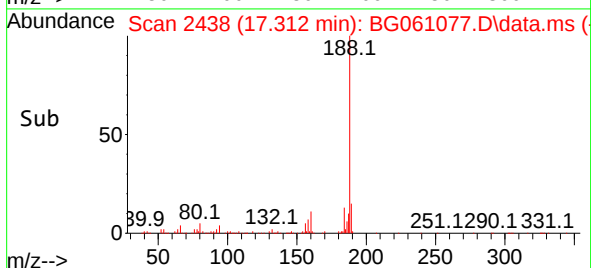
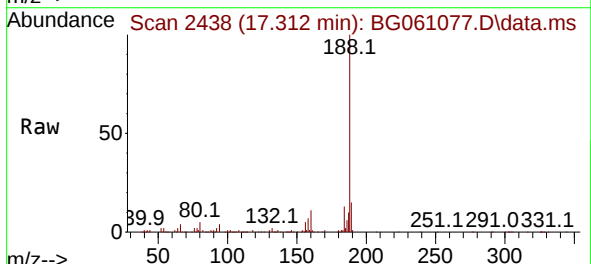
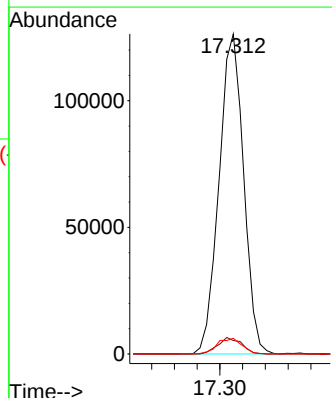
Tgt Ion:188 Resp: 189326

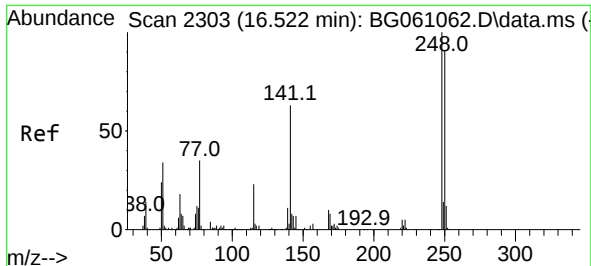
Ion Ratio Lower Upper

188 100

94 4.2 3.6 5.4

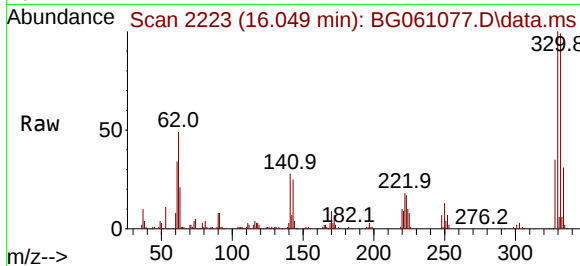
80 4.9 4.2 6.2



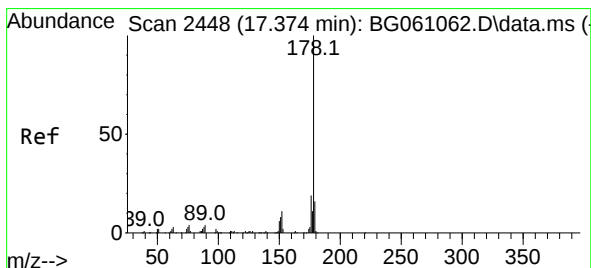
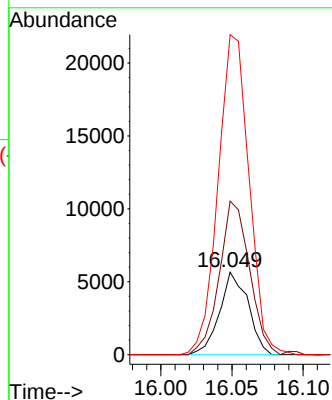
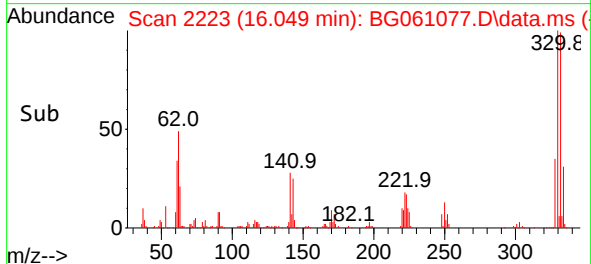


#67  
4-Bromophenyl-phenylether  
Concen: 3.548 ng  
RT: 16.049 min Scan# 21  
Delta R.T. -0.473 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

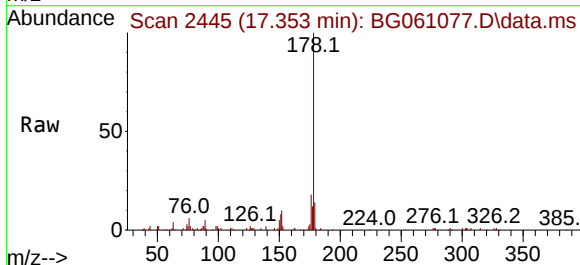
Instrument :  
BNA\_G  
ClientSampleId :



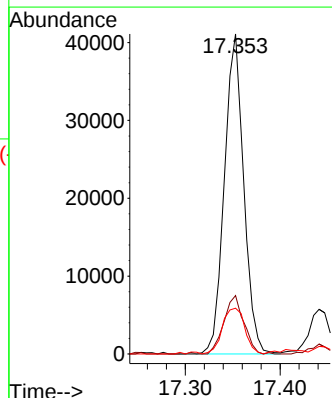
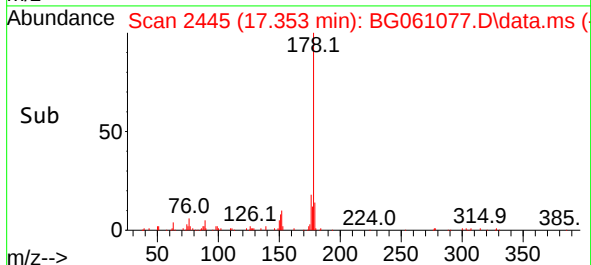
Tgt Ion:248 Resp: 7914  
Ion Ratio Lower Upper  
248 100  
250 185.8 73.0 109.4#  
141 387.3 50.8 76.2#

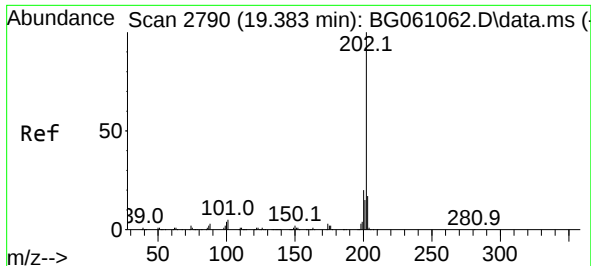


#71  
Phenanthrene  
Concen: 6.730 ng  
RT: 17.353 min Scan# 2445  
Delta R.T. -0.021 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22



Tgt Ion:178 Resp: 58258  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.5 23.3  
179 14.3 12.6 19.0

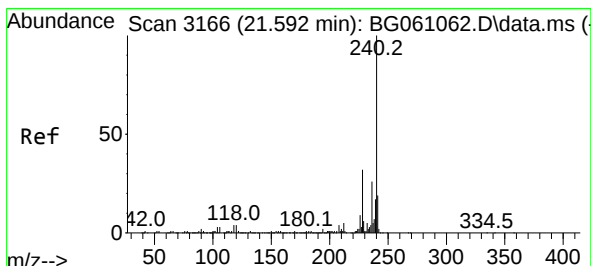
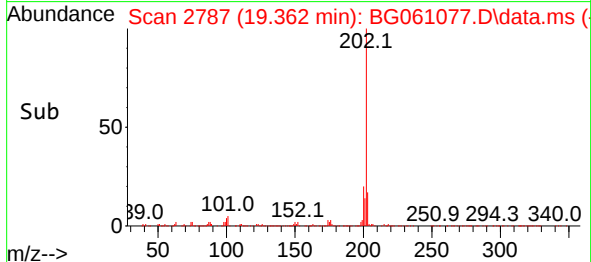
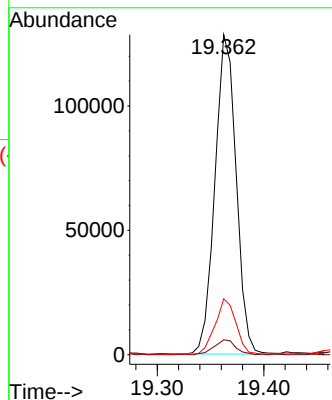
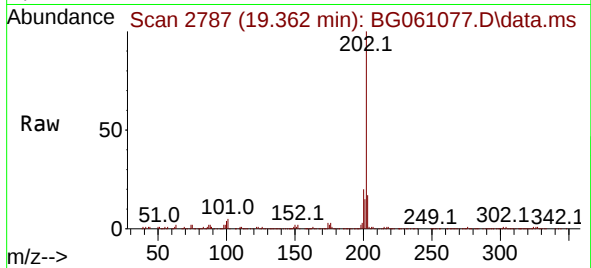




#75  
Fluoranthene  
Concen: 14.942 ng  
RT: 19.362 min Scan# 21  
Delta R.T. -0.021 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

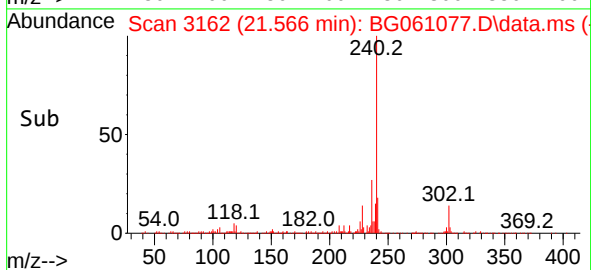
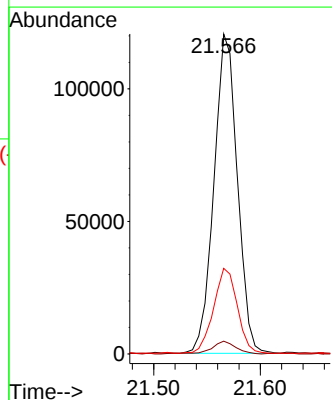
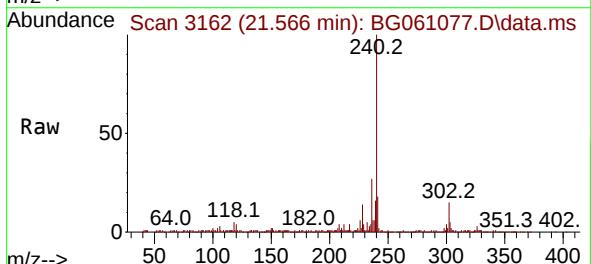
Instrument :  
BNA\_G  
ClientSampleId :

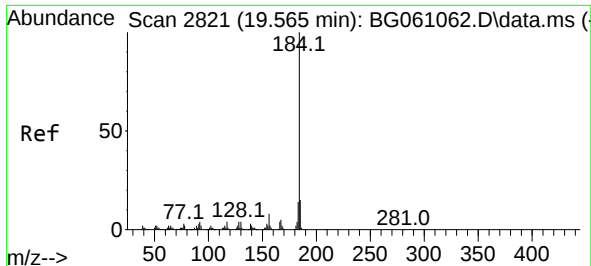
Tgt Ion:202 Resp: 177211  
Ion Ratio Lower Upper  
202 100  
101 4.7 0.0 24.7  
203 17.4 0.0 37.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.566 min Scan# 3162  
Delta R.T. -0.027 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

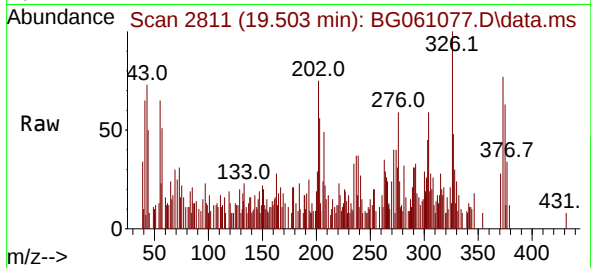
Tgt Ion:240 Resp: 183589  
Ion Ratio Lower Upper  
240 100  
120 4.0 3.2 4.8  
236 26.7 21.0 31.6



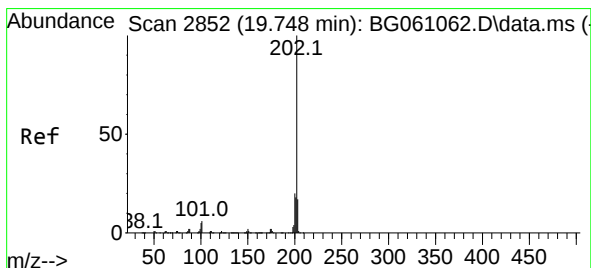
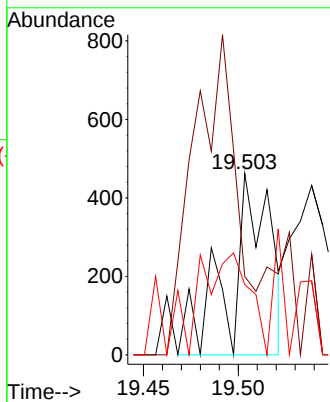
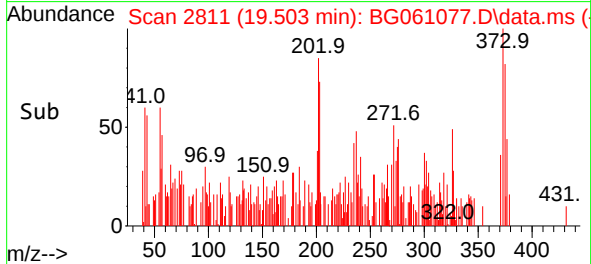


#77  
Benzidine  
Concen: 2.983 ng  
RT: 19.503 min Scan# 21  
Delta R.T. -0.062 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

Instrument :  
BNA\_G  
ClientSampleId :

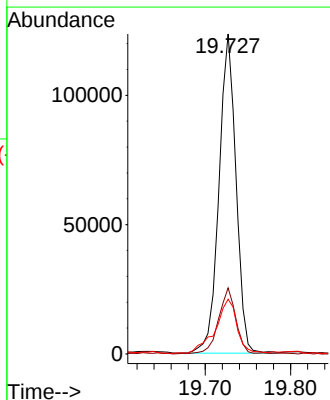
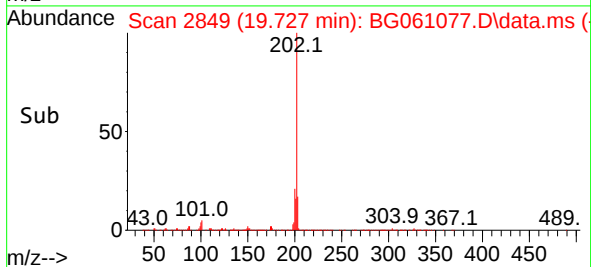
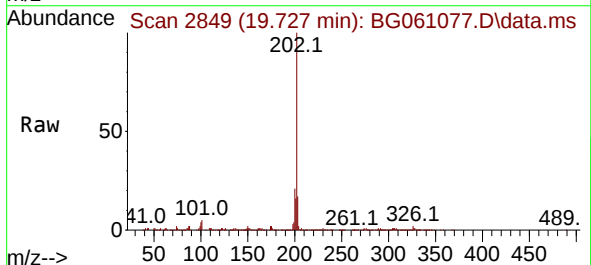


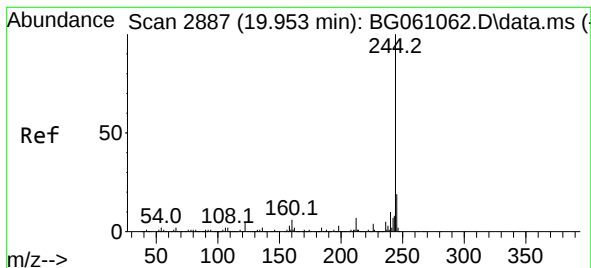
Tgt Ion:184 Resp: 697  
Ion Ratio Lower Upper  
184 100  
185 43.3 12.0 18.0#  
183 38.7 10.9 16.3#



#78  
Pyrene  
Concen: 14.669 ng  
RT: 19.727 min Scan# 2849  
Delta R.T. -0.021 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

Tgt Ion:202 Resp: 171219  
Ion Ratio Lower Upper  
202 100  
200 20.7 16.2 24.4  
203 17.1 13.3 19.9





#79

Terphenyl-d14

Concen: 52.346 ng

RT: 19.932 min Scan# 21

Delta R.T. -0.021 min

Lab File: BG061077.D

Acq: 1 May 2024 15:22

Instrument :

BNA\_G

ClientSampleId :

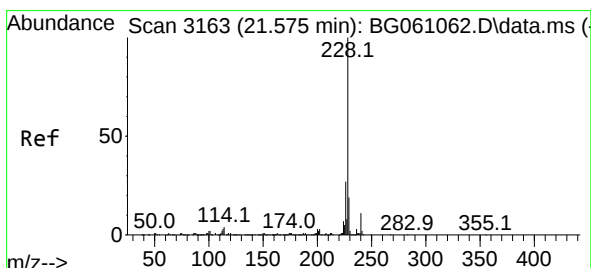
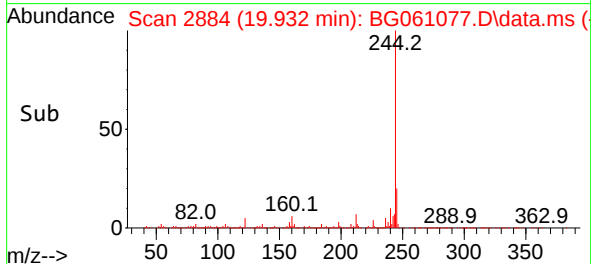
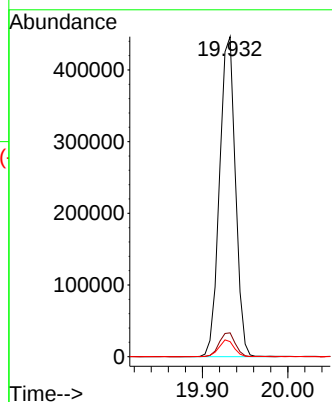
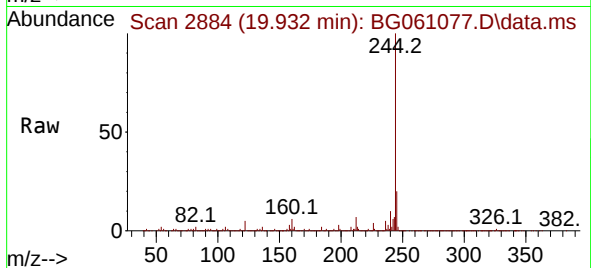
Tgt Ion:244 Resp: 577830

Ion Ratio Lower Upper

244 100

212 7.5 5.7 8.5

122 4.7 4.2 6.2



#81

Benzo(a)anthracene

Concen: 8.220 ng

RT: 21.548 min Scan# 3159

Delta R.T. -0.027 min

Lab File: BG061077.D

Acq: 1 May 2024 15:22

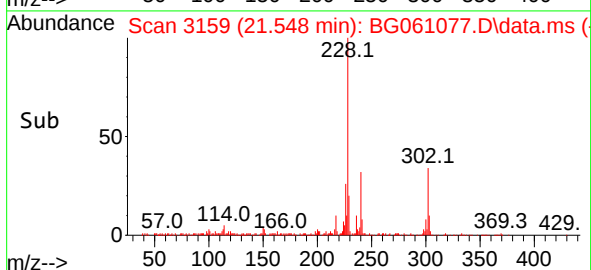
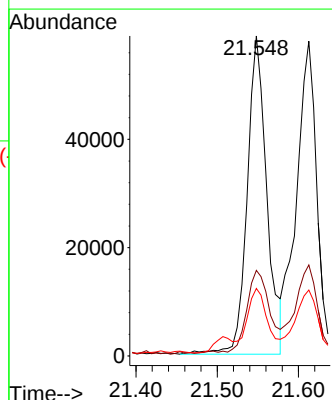
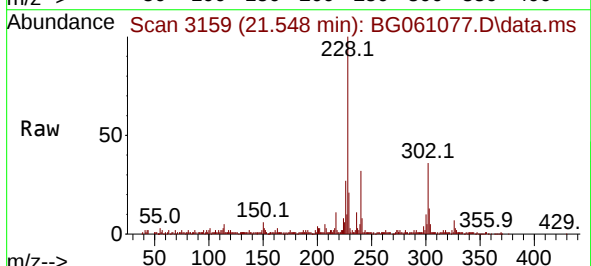
Tgt Ion:228 Resp: 98749

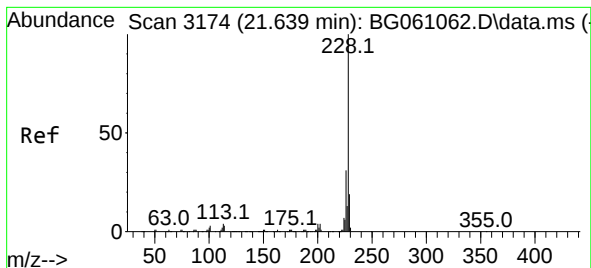
Ion Ratio Lower Upper

228 100

226 26.7 21.6 32.4

229 21.1 15.0 22.4





#83

Chrysene

Concen: 8.872 ng

RT: 21.613 min Scan# 3170

Delta R.T. -0.027 min

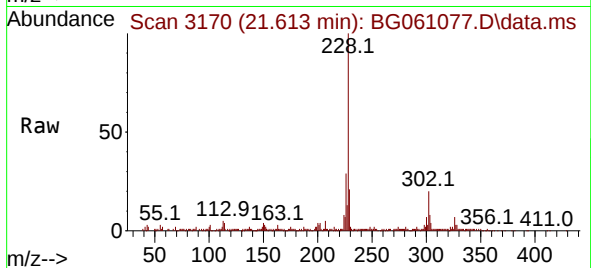
Lab File: BG061077.D

Acq: 1 May 2024 15:22

Instrument :

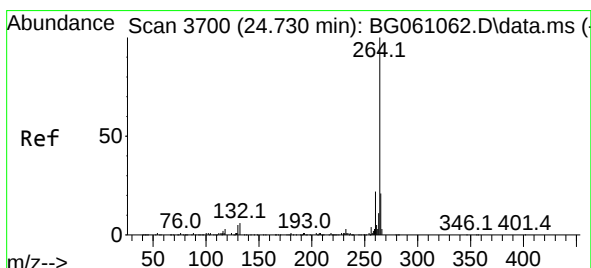
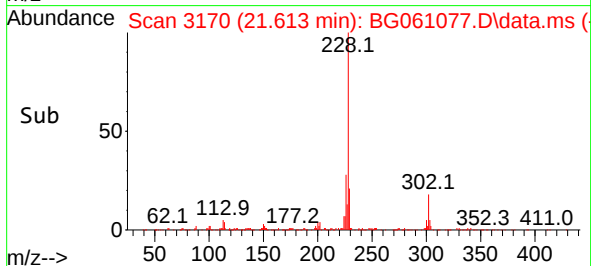
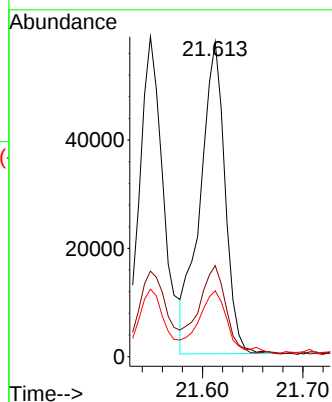
BNA\_G

ClientSampleId :



Tgt Ion:228 Resp: 99854

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.9  | 24.4  | 36.6  |
| 229 | 21.0  | 14.8  | 22.2  |



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.691 min Scan# 3694

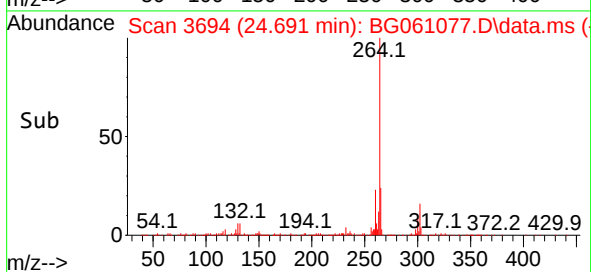
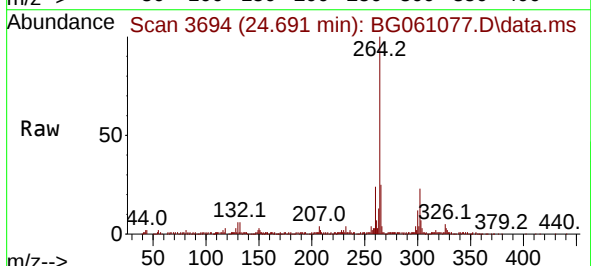
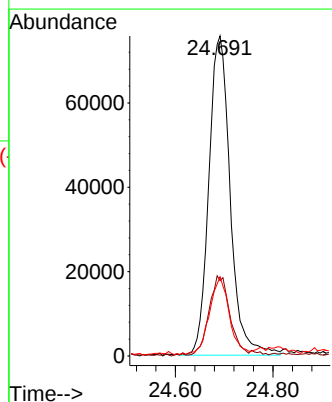
Delta R.T. -0.039 min

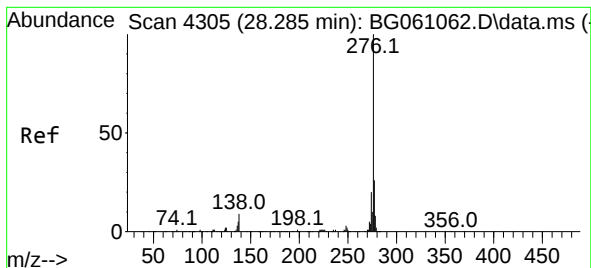
Lab File: BG061077.D

Acq: 1 May 2024 15:22

Tgt Ion:264 Resp: 230030

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.6  | 17.7  | 26.5  |
| 265 | 24.8  | 16.4  | 24.6  |





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.207 ng

RT: 28.223 min Scan# 4305

Delta R.T. -0.062 min

Lab File: BG061077.D

Acq: 1 May 2024 15:22

Instrument :

BNA\_G

ClientSampleId :

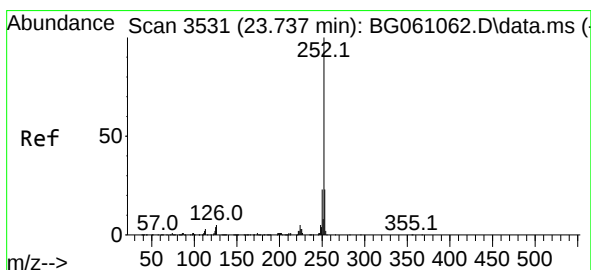
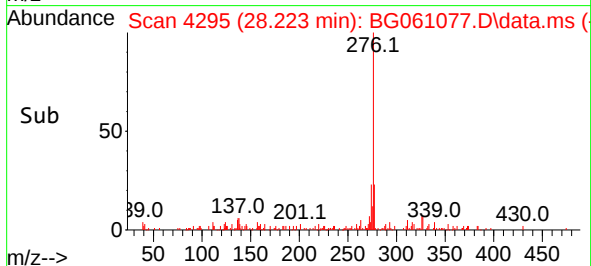
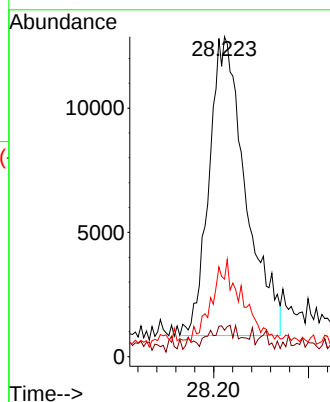
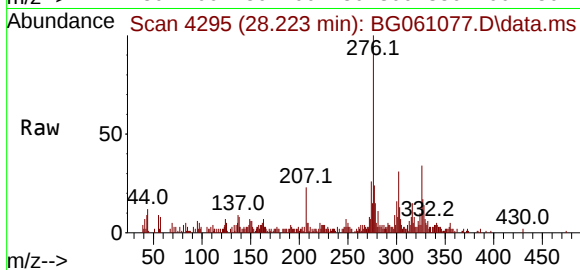
Tgt Ion:276 Resp: 64127

Ion Ratio Lower Upper

276 100

138 4.7 5.1 7.7#

277 0.0 20.6 30.8#



#88

Benzo(b)fluoranthene

Concen: 11.394 ng

RT: 23.704 min Scan# 3526

Delta R.T. -0.033 min

Lab File: BG061077.D

Acq: 1 May 2024 15:22

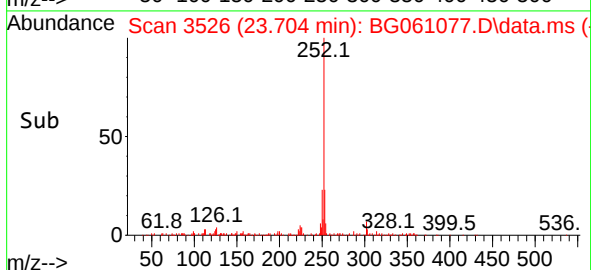
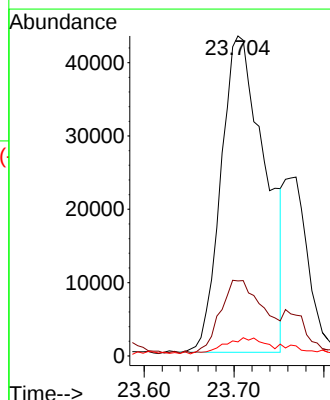
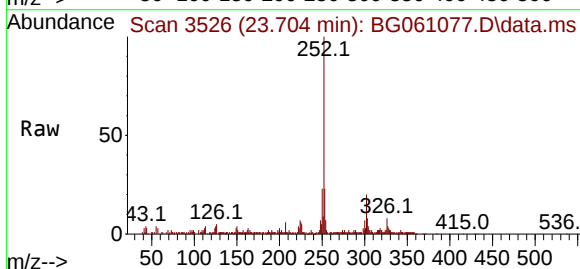
Tgt Ion:252 Resp: 146459

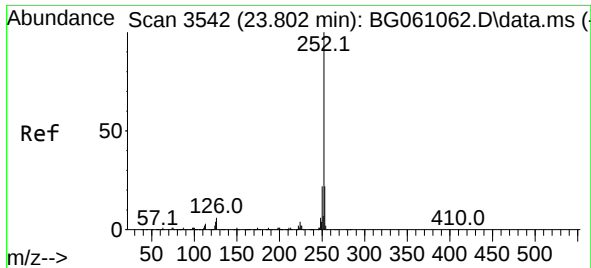
Ion Ratio Lower Upper

252 100

253 23.4 18.2 27.2

125 4.4 3.4 5.0

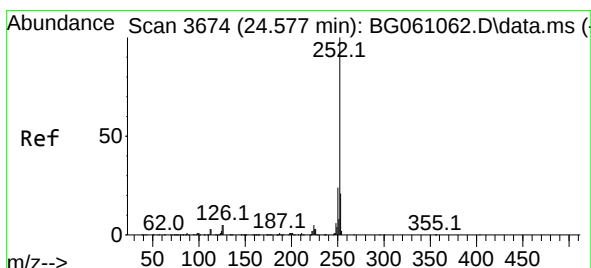
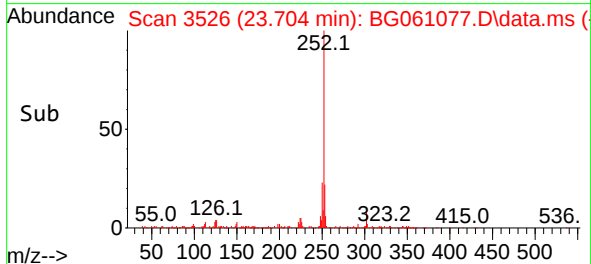
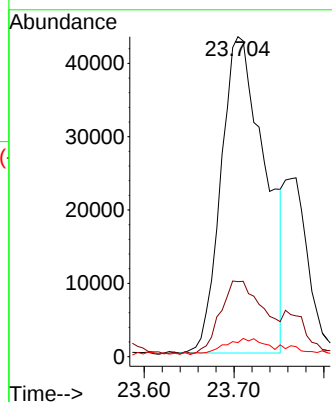
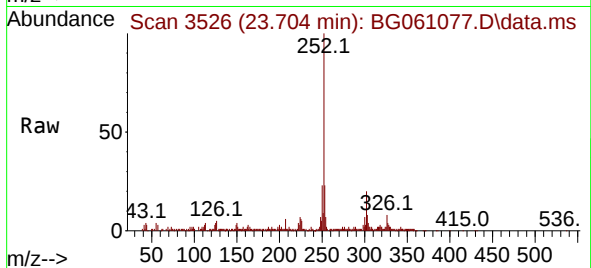




#89  
Benzo(k)fluoranthene  
Concen: 11.844 ng  
RT: 23.704 min Scan# 31  
Delta R.T. -0.097 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

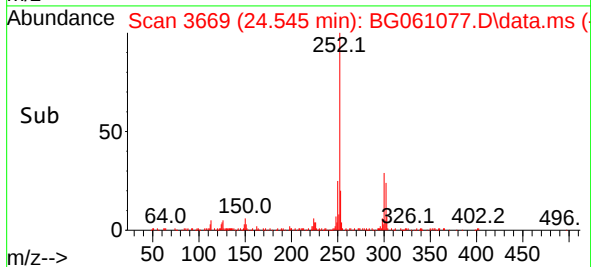
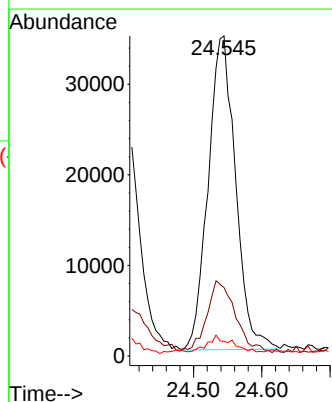
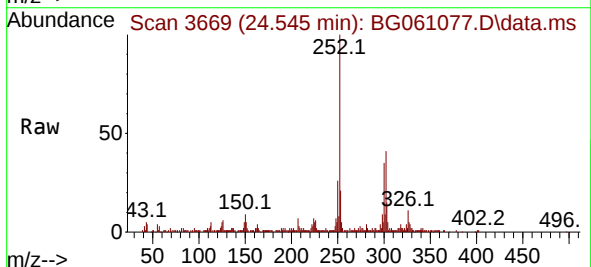
Instrument :  
BNA\_G  
ClientSampleId :

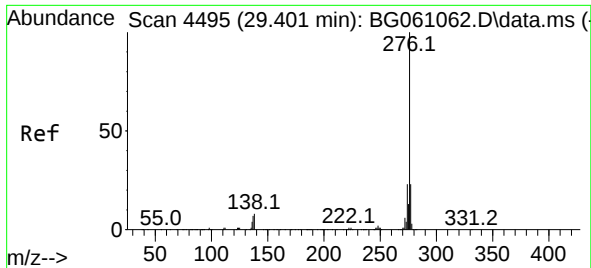
Tgt Ion:252 Resp: 146459  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.3 25.9  
125 4.4 3.2 4.8



#90  
Benzo(a)pyrene  
Concen: 8.642 ng  
RT: 24.545 min Scan# 3669  
Delta R.T. -0.033 min  
Lab File: BG061077.D  
Acq: 1 May 2024 15:22

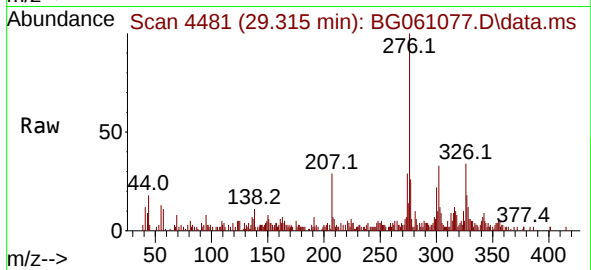
Tgt Ion:252 Resp: 96779  
Ion Ratio Lower Upper  
252 100  
253 21.4 16.9 25.3  
125 4.5 3.8 5.8





#92  
 Benzo(g,h,i)perylene  
 Concen: 2.396 ng  
 RT: 29.315 min Scan# 44  
 Delta R.T. -0.086 min  
 Lab File: BG061077.D  
 Acq: 1 May 2024 15:22

Instrument :  
 BNA\_G  
 ClientSampleId :



Tgt Ion:276 Resp: 30064  
 Ion Ratio Lower Upper  
 276 100  
 277 25.6 18.2 27.4  
 138 10.7 6.2 9.2#

