

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG051624\  
 Data File : BG061222.D  
 Acq On : 16 May 2024 15:58  
 Operator : MA/JU  
 Sample : P2490-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 72-11978

Quant Time: May 16 16:33:17 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

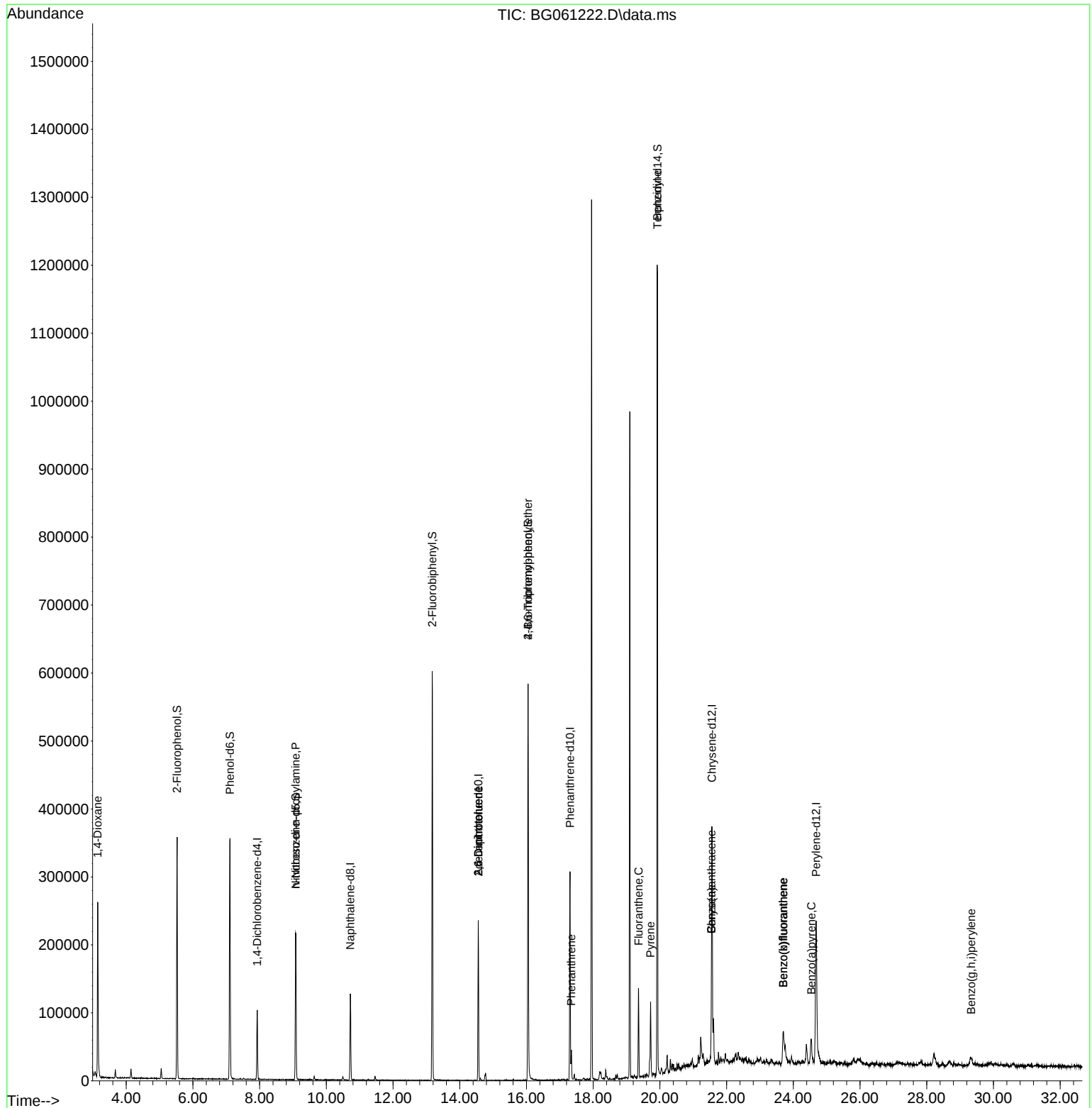
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.928  | 152  | 25296    | 20.000    | ng    | -0.03    |
| 21) Naphthalene-d8            | 10.719 | 136  | 100286   | 20.000    | ng    | #-0.04   |
| 39) Acenaphthene-d10          | 14.556 | 164  | 84765    | 20.000    | ng    | -0.03    |
| 64) Phenanthrene-d10          | 17.305 | 188  | 202968   | 20.000    | ng    | #-0.03   |
| 76) Chrysene-d12              | 21.559 | 240  | 199916   | 20.000    | ng    | #-0.03   |
| 86) Perylene-d12              | 24.685 | 264  | 245386   | 20.000    | ng    | -0.04    |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.525  | 112  | 118070   | 94.925    | ng    | -0.02    |
| 7) Phenol-d6                  | 7.112  | 99   | 162010   | 88.049    | ng    | -0.02    |
| 23) Nitrobenzene-d5           | 9.080  | 82   | 114764   | 56.729    | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol      | 16.048 | 330  | 128330   | 75.742    | ng    | -0.03    |
| 45) 2-Fluorobiphenyl          | 13.175 | 172  | 310071   | 54.092    | ng    | -0.03    |
| 79) Terphenyl-d14             | 19.926 | 244  | 625841   | 52.065    | ng    | -0.03    |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.146  | 88   | 1725     | 3.430     | ng    | # 1      |
| 9) Benzaldehyde               | 7.112  | 77   | 266      | Below Cal |       | # 3      |
| 19) n-Nitroso-di-n-propyla... | 9.080  | 70   | 16855    | 12.240    | ng    | # 63     |
| 51) 2,6-Dinitrotoluene        | 14.556 | 165  | 10779    | 7.697     | ng    | # 17     |
| 57) 2,4-Dinitrotoluene        | 14.556 | 165  | 10779    | 5.202     | ng    | # 18     |
| 67) 4-Bromophenyl-phenylether | 16.048 | 248  | 8073     | 3.376     | ng    | # 1      |
| 71) Phenanthrene              | 17.347 | 178  | 27330    | 2.945     | ng    | 97       |
| 75) Fluoranthene              | 19.362 | 202  | 87242    | 6.862     | ng    | 99       |
| 77) Benzidine                 | 19.920 | 184  | 9854     | 5.235     | ng    | # 87     |
| 78) Pyrene                    | 19.720 | 202  | 75266    | 5.922     | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.542 | 228  | 49764    | 3.804     | ng    | 98       |
| 83) Chrysene                  | 21.542 | 228  | 49764    | 4.060     | ng    | 94       |
| 88) Benzo(b)fluoranthene      | 23.698 | 252  | 63148    | 4.605     | ng    | # 99     |
| 89) Benzo(k)fluoranthene      | 23.698 | 252  | 63148    | 4.787     | ng    | # 97     |
| 90) Benzo(a)pyrene            | 24.538 | 252  | 44718    | 3.743     | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 29.333 | 276  | 28583    | 2.136     | ng    | # 90     |
| -----                         |        |      |          |           |       |          |

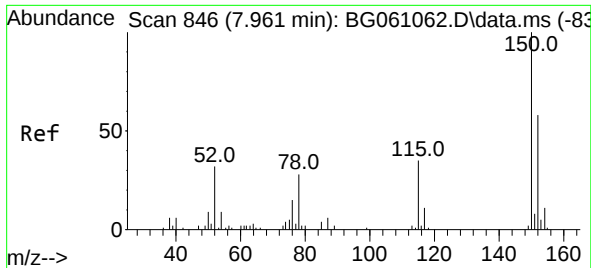
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG051624\  
Data File : BG061222.D  
Acq On : 16 May 2024 15:58  
Operator : MA/JU  
Sample : P2490-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

Quant Time: May 16 16:33:17 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

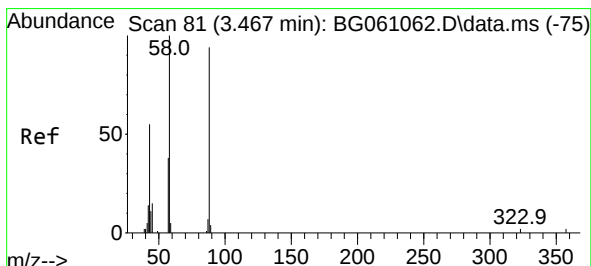
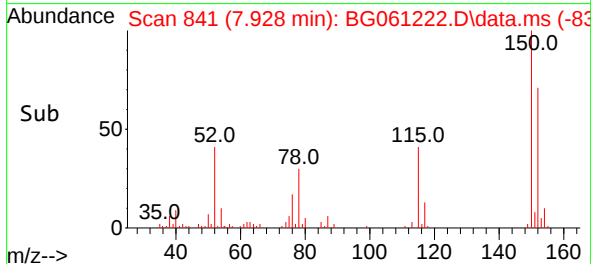
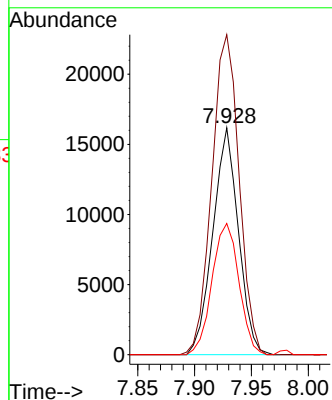
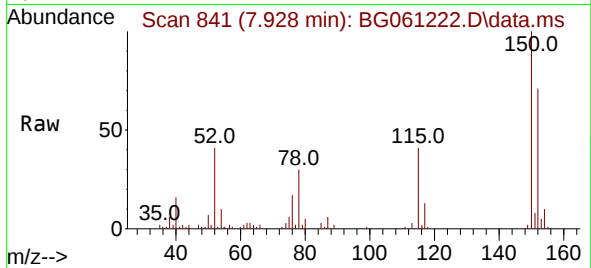




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.928 min Scan# 84  
 Delta R.T. -0.033 min  
 Lab File: BG061222.D  
 Acq: 16 May 2024 15:58

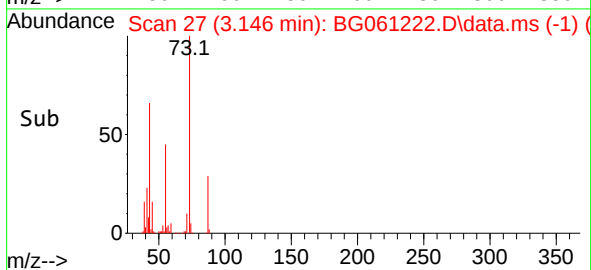
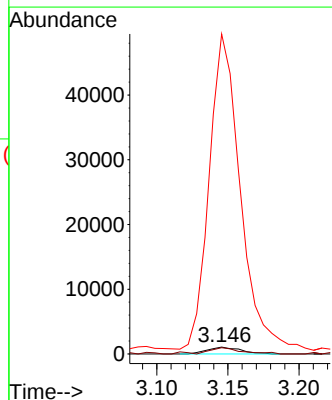
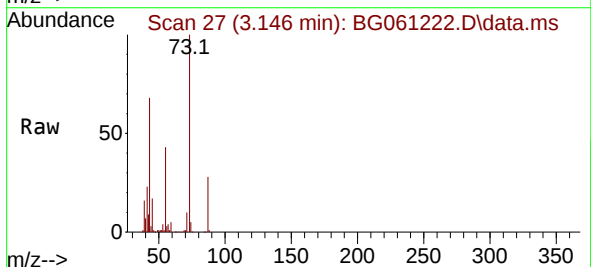
Instrument :  
 BNA\_G  
 ClientSampleId :  
 72-11978

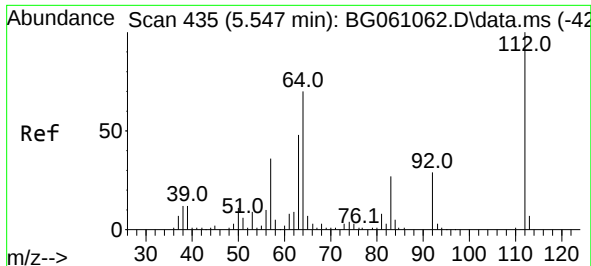
Tgt Ion:152 Resp: 25296  
 Ion Ratio Lower Upper  
 152 100  
 150 141.0 138.3 207.5  
 115 57.8 48.0 72.0



#2  
 1,4-Dioxane  
 Concen: 3.430 ng  
 RT: 3.146 min Scan# 27  
 Delta R.T. -0.321 min  
 Lab File: BG061222.D  
 Acq: 16 May 2024 15:58

Tgt Ion: 88 Resp: 1725  
 Ion Ratio Lower Upper  
 88 100  
 58 83.8 81.2 121.8  
 43 4321.9 45.0 67.4#

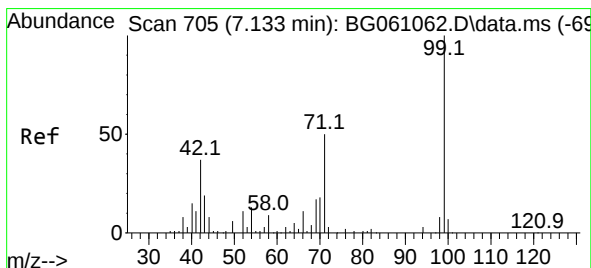
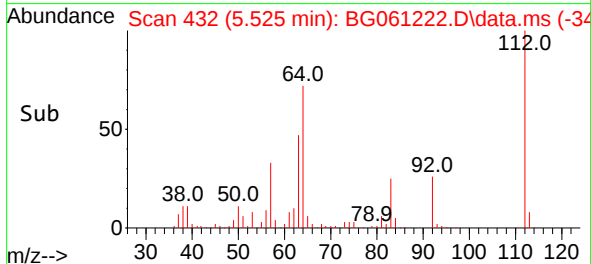
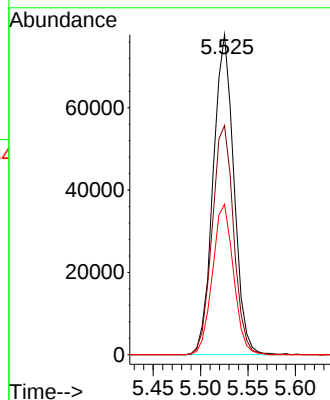
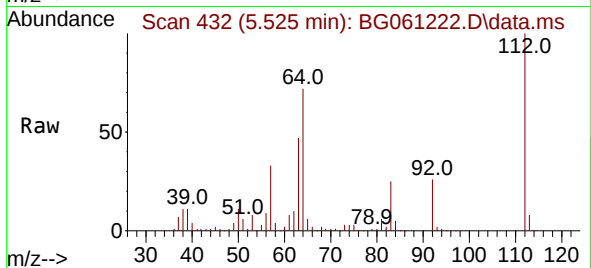




#5  
2-Fluorophenol  
Concen: 94.925 ng  
RT: 5.525 min Scan# 41  
Delta R.T. -0.021 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

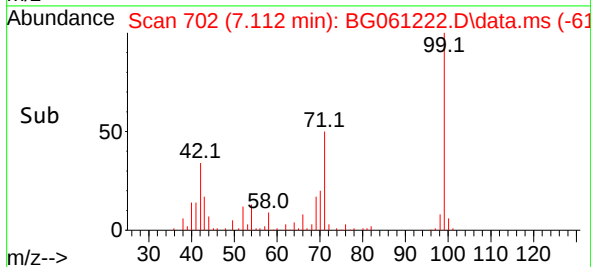
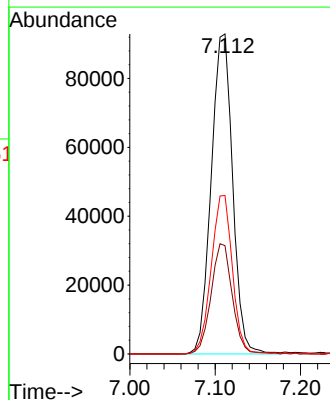
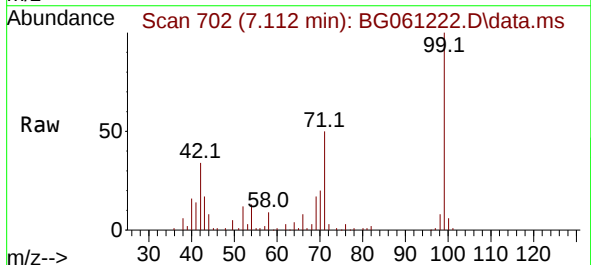
Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

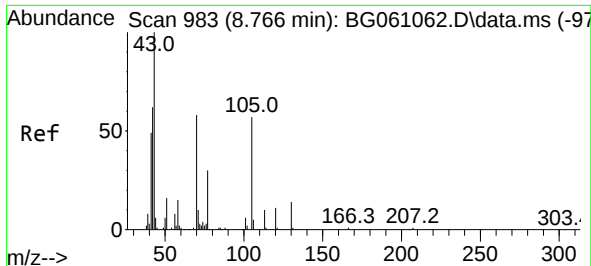
Tgt Ion:112 Resp: 118070  
Ion Ratio Lower Upper  
112 100  
64 71.6 55.7 83.5  
63 47.1 38.1 57.1



#7  
Phenol-d6  
Concen: 88.049 ng  
RT: 7.112 min Scan# 702  
Delta R.T. -0.021 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

Tgt Ion: 99 Resp: 162010  
Ion Ratio Lower Upper  
99 100  
42 33.9 29.2 43.8  
71 49.5 39.7 59.5

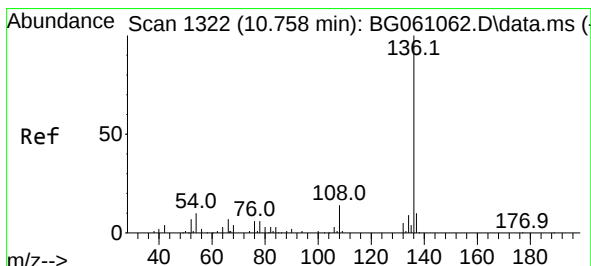
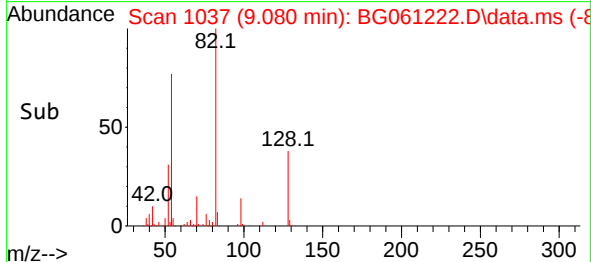
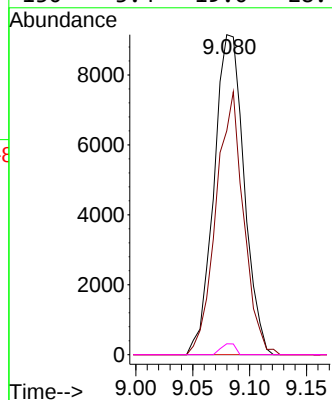
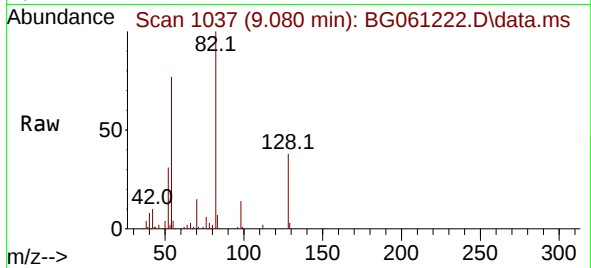




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.240 ng  
RT: 9.080 min Scan# 1037  
Delta R.T. 0.313 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

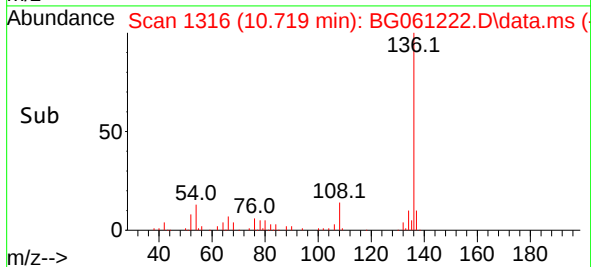
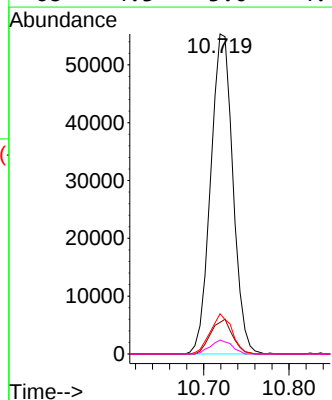
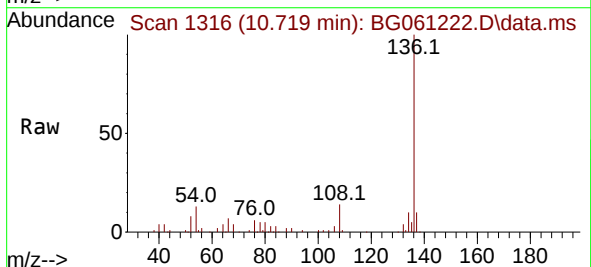
Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

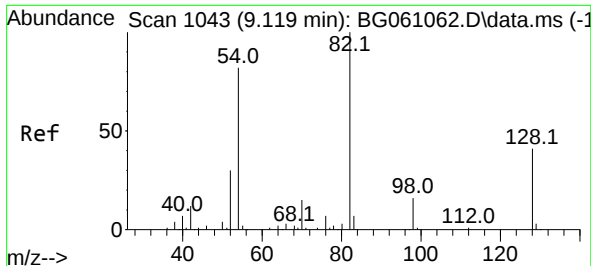
Tgt Ion: 70 Resp: 16855  
Ion Ratio Lower Upper  
70 100  
42 69.9 86.4 129.6#  
101 0.0 7.8 11.8#  
130 3.4 19.0 28.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.719 min Scan# 1316  
Delta R.T. -0.039 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

Tgt Ion: 136 Resp: 100286  
Ion Ratio Lower Upper  
136 100  
137 9.9 7.8 11.6  
54 12.5 8.1 12.1#  
68 4.3 3.0 4.4





#23

Nitrobenzene-d5

Concen: 56.729 ng

RT: 9.080 min Scan# 1043

Delta R.T. -0.039 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

Instrument :

BNA\_G

ClientSampleId :

72-11978

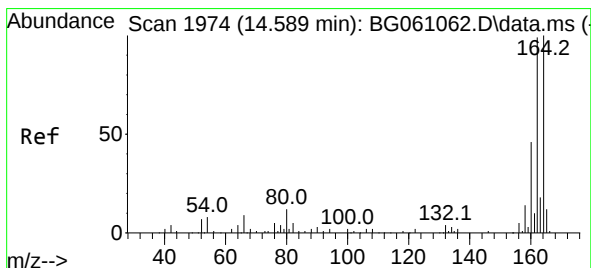
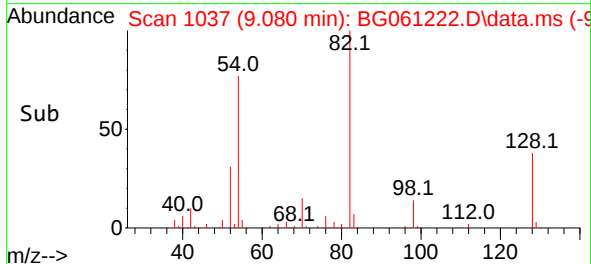
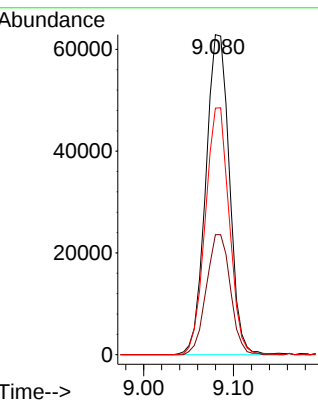
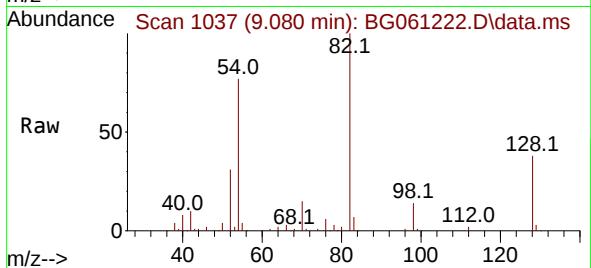
Tgt Ion: 82 Resp: 114764

Ion Ratio Lower Upper

82 100

128 37.5 32.7 49.1

54 77.0 65.6 98.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.556 min Scan# 1969

Delta R.T. -0.033 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

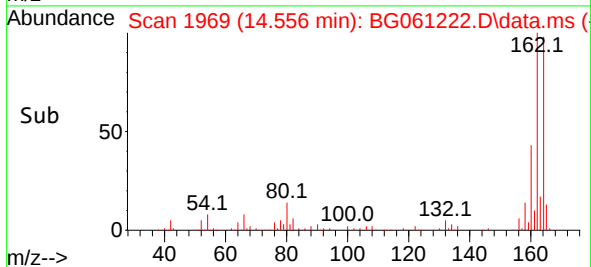
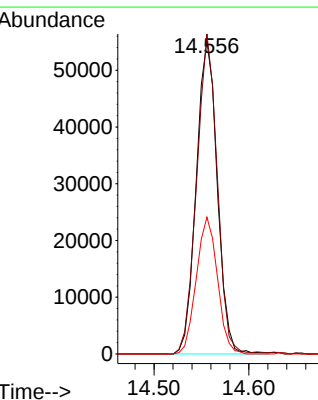
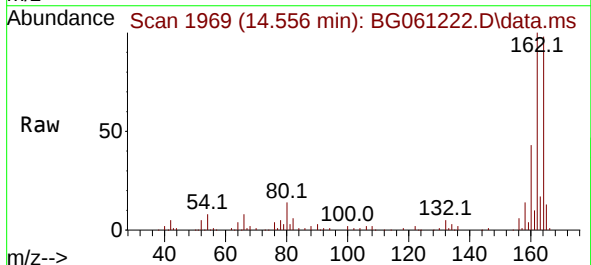
Tgt Ion: 164 Resp: 84765

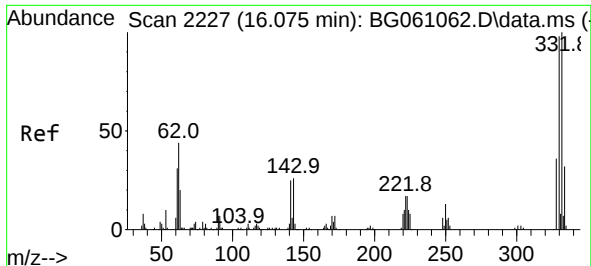
Ion Ratio Lower Upper

164 100

162 102.4 79.4 119.2

160 43.8 37.0 55.6

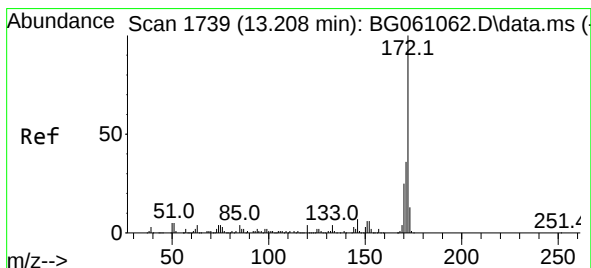
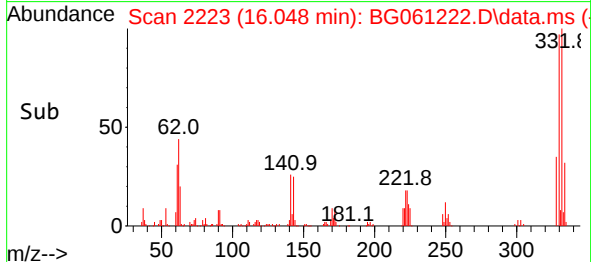
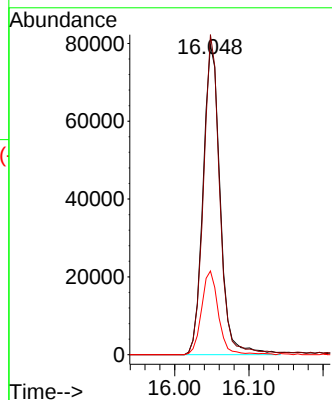
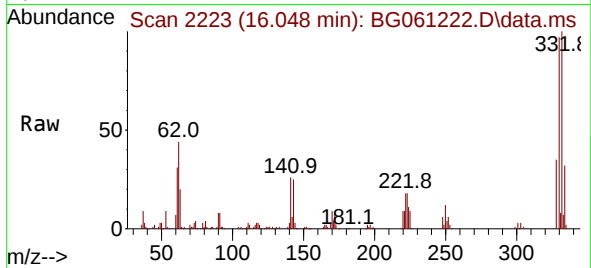




#42  
2,4,6-Tribromophenol  
Concen: 75.742 ng  
RT: 16.048 min Scan# 21  
Delta R.T. -0.027 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

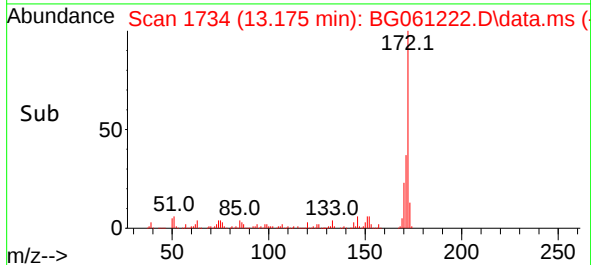
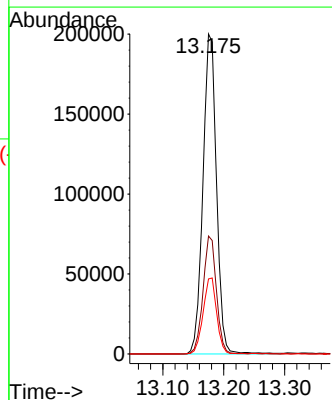
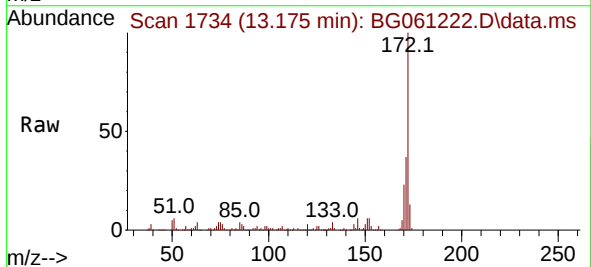
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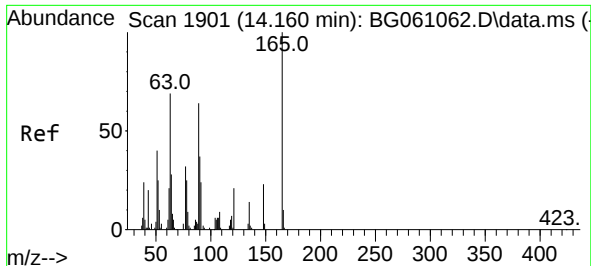
Tgt Ion:330 Resp: 128330  
Ion Ratio Lower Upper  
330 100  
332 98.4 78.6 117.8  
141 26.6 20.5 30.7



#45  
2-Fluorobiphenyl  
Concen: 54.092 ng  
RT: 13.175 min Scan# 1734  
Delta R.T. -0.033 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

Tgt Ion:172 Resp: 310071  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.0 43.6  
170 23.4 20.2 30.4

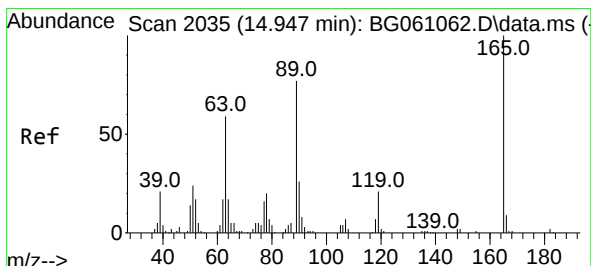
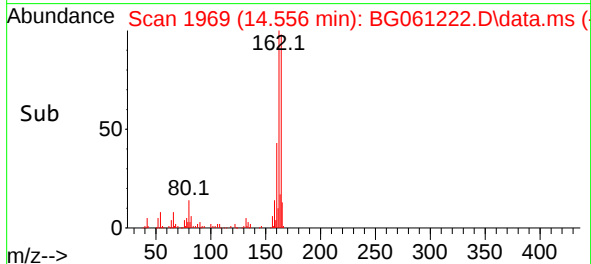
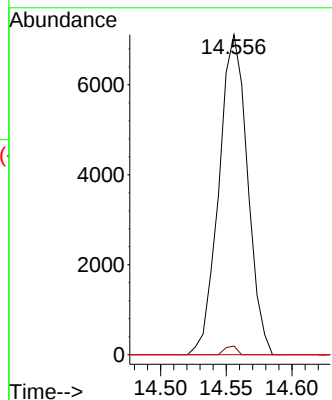
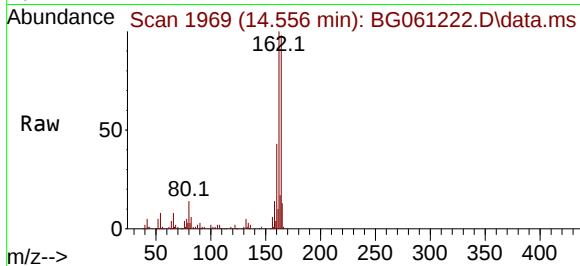




#51  
2,6-Dinitrotoluene  
Concen: 7.697 ng  
RT: 14.556 min Scan# 1901  
Delta R.T. 0.396 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

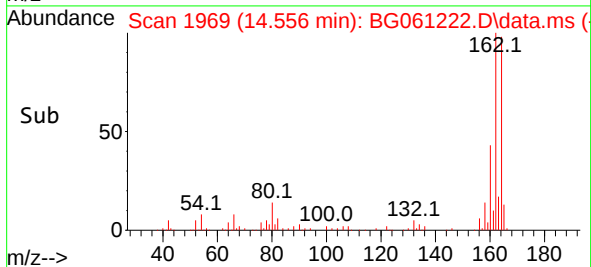
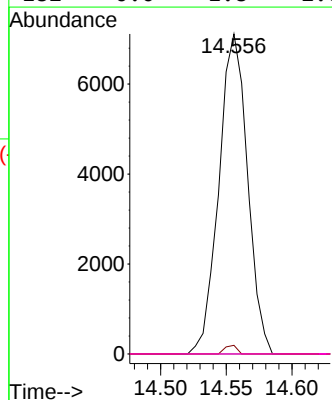
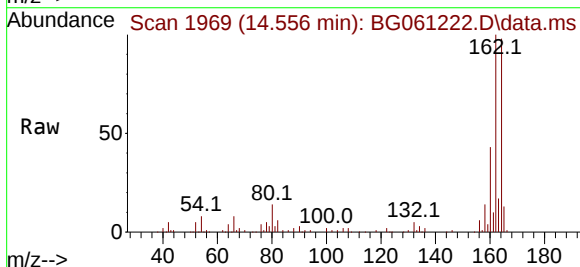
Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

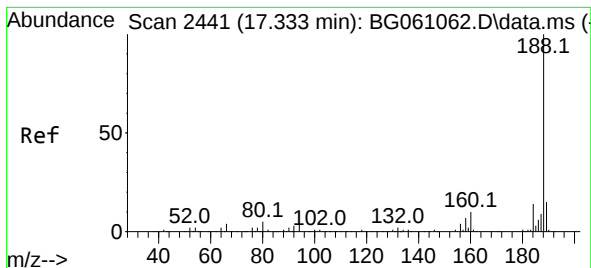
Tgt Ion:165 Resp: 10779  
Ion Ratio Lower Upper  
165 100  
63 2.7 60.0 90.0#  
89 0.0 50.9 76.3#



#57  
2,4-Dinitrotoluene  
Concen: 5.202 ng  
RT: 14.556 min Scan# 1969  
Delta R.T. -0.392 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

Tgt Ion:165 Resp: 10779  
Ion Ratio Lower Upper  
165 100  
63 2.7 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: 17.305 min Scan# 2441

Delta R.T. -0.027 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

Instrument :

BNA\_G

ClientSampleId :

72-11978

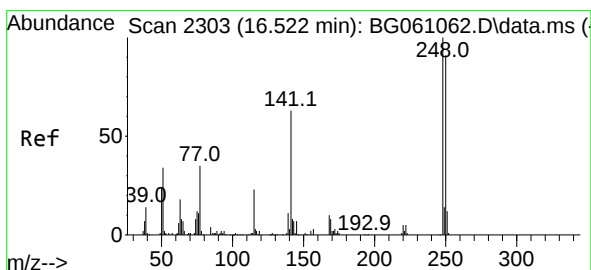
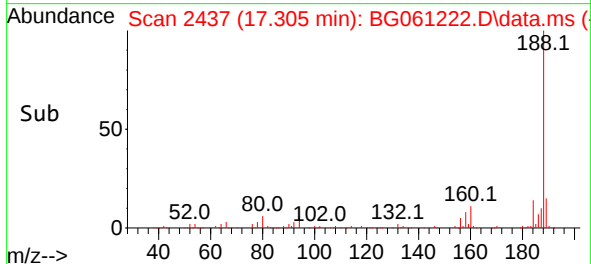
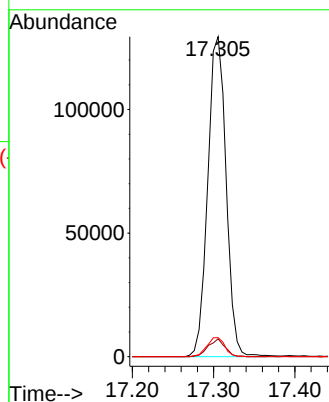
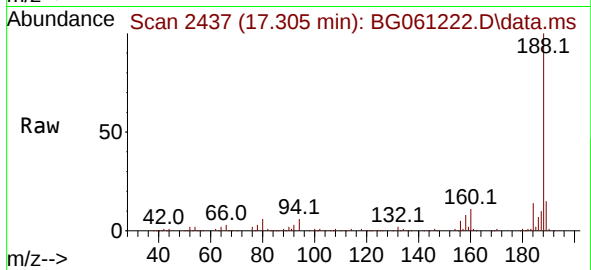
Tgt Ion:188 Resp: 202968

Ion Ratio Lower Upper

188 100

94 5.6 3.6 5.4#

80 6.0 4.2 6.2



#67

4-Bromophenyl-phenylether

Concen: 3.376 ng

RT: 16.048 min Scan# 2223

Delta R.T. -0.474 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

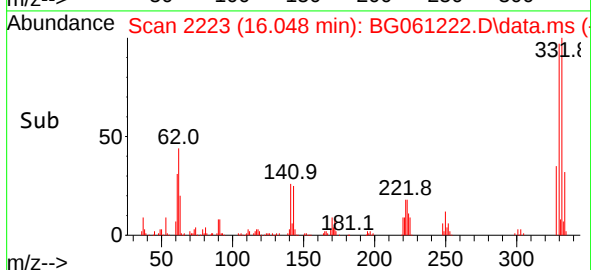
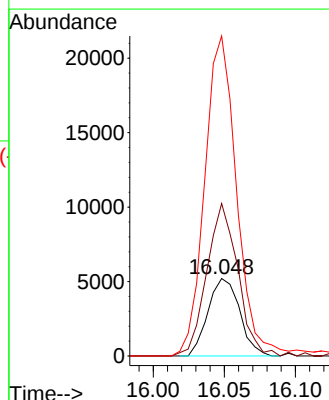
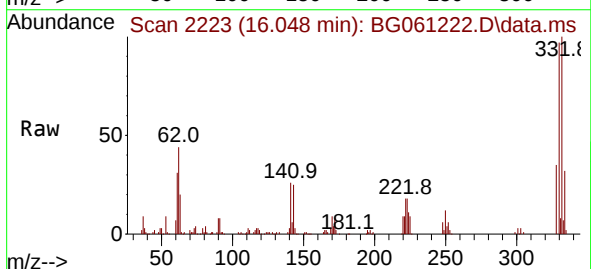
Tgt Ion:248 Resp: 8073

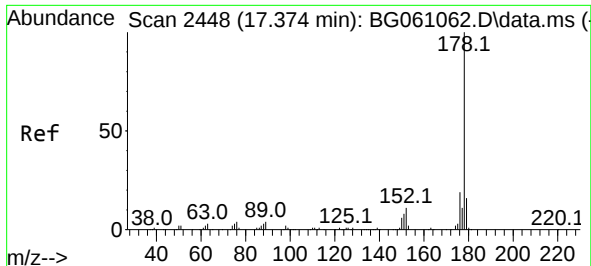
Ion Ratio Lower Upper

248 100

250 197.0 73.0 109.4#

141 413.3 50.8 76.2#

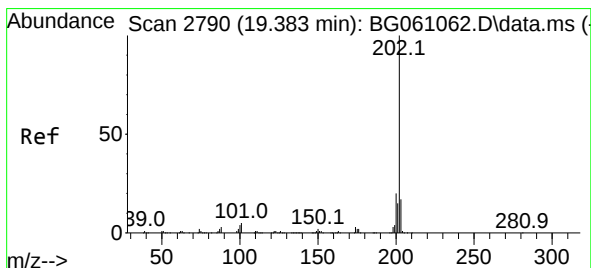
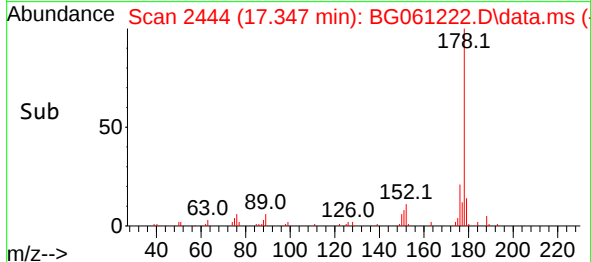
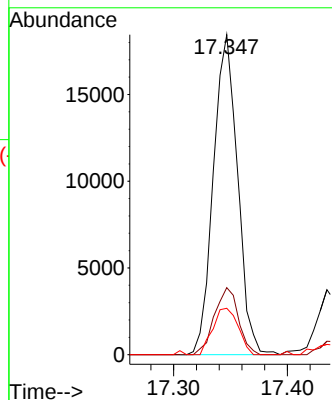
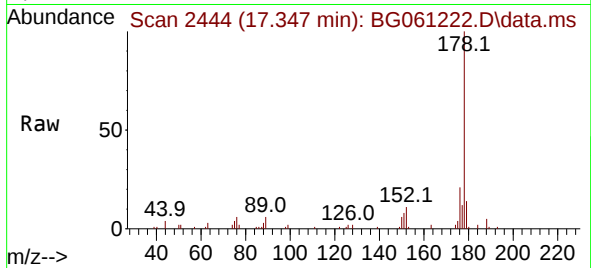




#71  
Phenanthrene  
Concen: 2.945 ng  
RT: 17.347 min Scan# 2444  
Delta R.T. -0.027 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

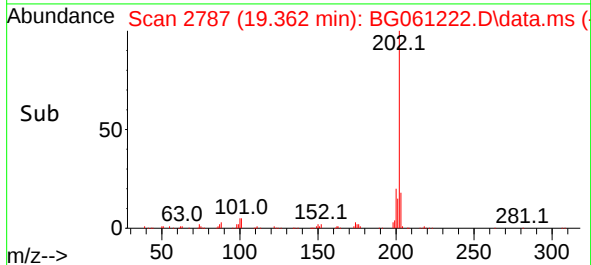
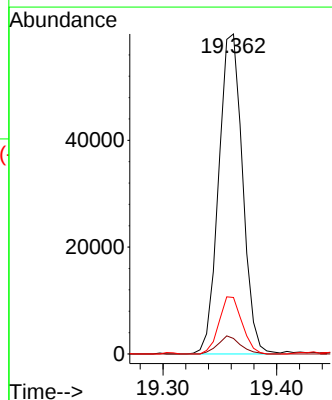
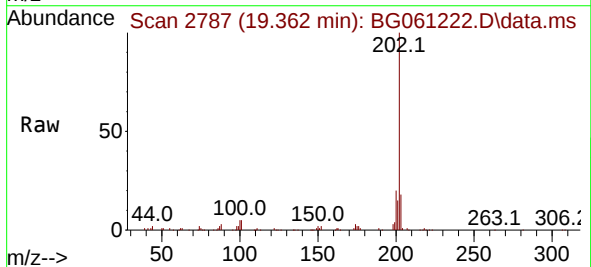
Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

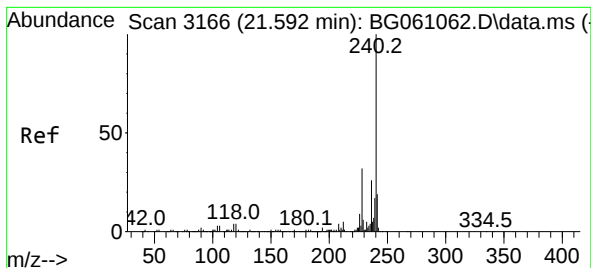
Tgt Ion:178 Resp: 27330  
Ion Ratio Lower Upper  
178 100  
176 21.0 15.5 23.3  
179 14.5 12.6 19.0



#75  
Fluoranthene  
Concen: 6.862 ng  
RT: 19.362 min Scan# 2787  
Delta R.T. -0.021 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

Tgt Ion:202 Resp: 87242  
Ion Ratio Lower Upper  
202 100  
101 4.9 0.0 24.7  
203 17.7 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.559 min Scan# 3161

Delta R.T. -0.033 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

Instrument :

BNA\_G

ClientSampleId :

72-11978

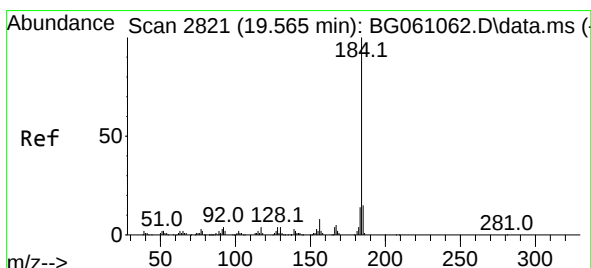
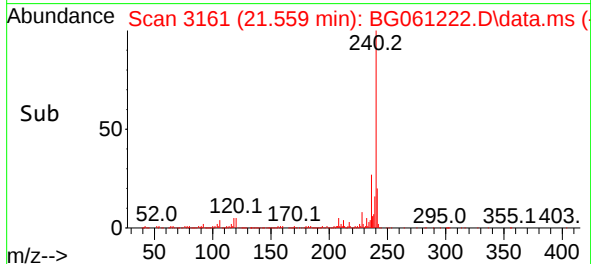
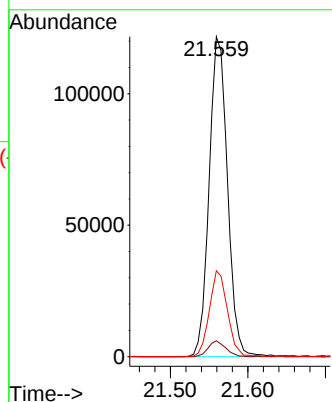
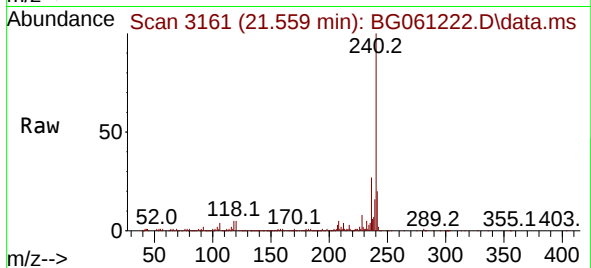
Tgt Ion:240 Resp: 199916

Ion Ratio Lower Upper

240 100

120 4.9 3.2 4.8#

236 26.9 21.0 31.6



#77

Benzidine

Concen: 5.235 ng

RT: 19.920 min Scan# 2882

Delta R.T. 0.355 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

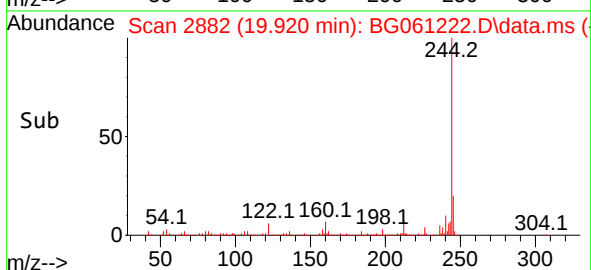
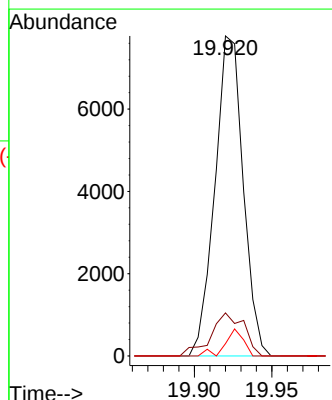
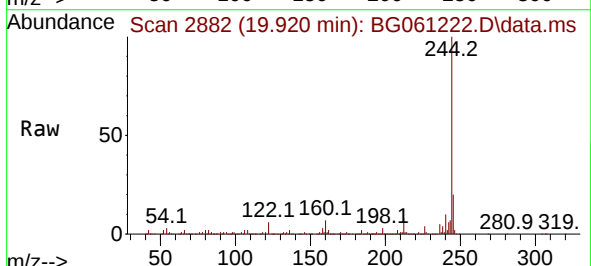
Tgt Ion:184 Resp: 9854

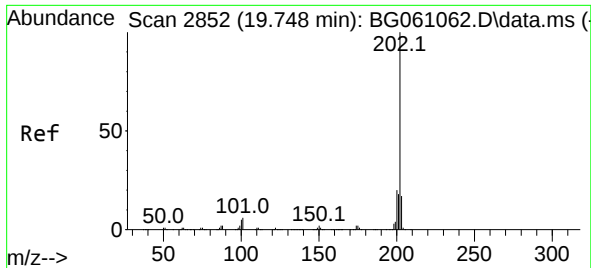
Ion Ratio Lower Upper

184 100

185 13.4 12.0 18.0

183 3.8 10.9 16.3#

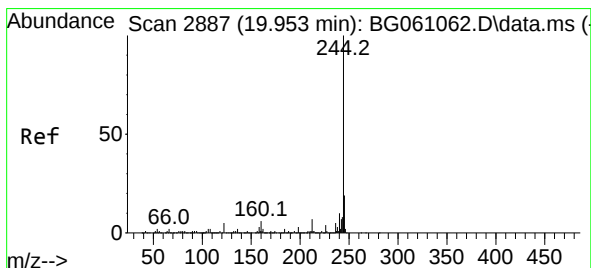
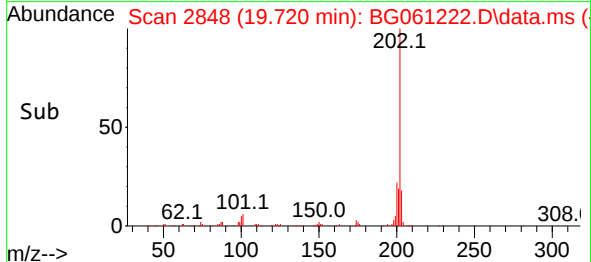
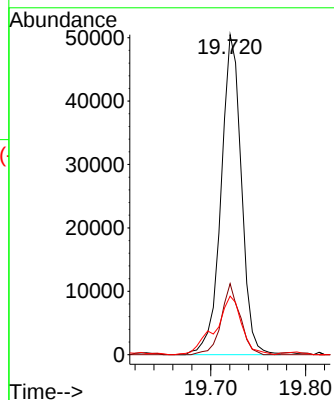
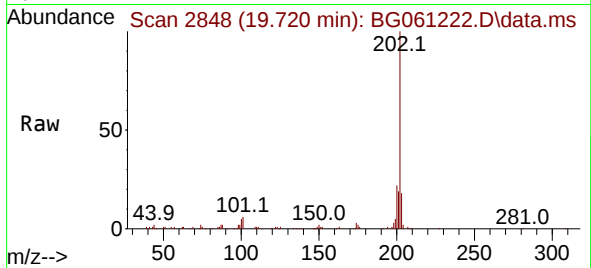




#78  
Pyrene  
Concen: 5.922 ng  
RT: 19.720 min Scan# 2848  
Delta R.T. -0.027 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

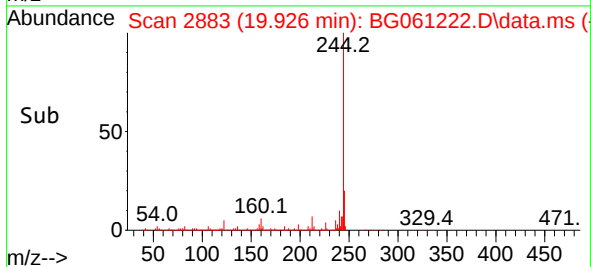
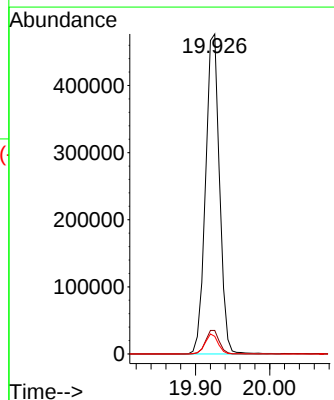
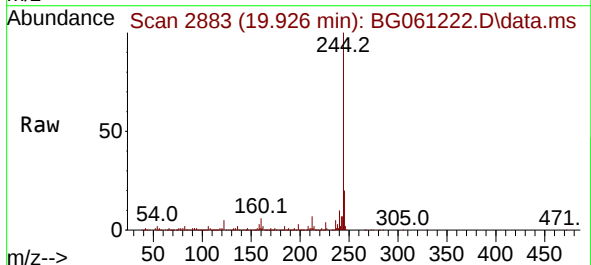
Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

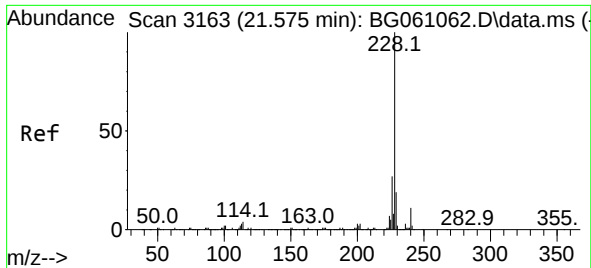
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 75266 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 22.2  | 16.2  | 24.4  |
| 203      | 18.3  | 13.3  | 19.9  |



#79  
Terphenyl-d14  
Concen: 52.065 ng  
RT: 19.926 min Scan# 2883  
Delta R.T. -0.027 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 625841 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 7.3   | 5.7   | 8.5    |
| 122      | 5.5   | 4.2   | 6.2    |

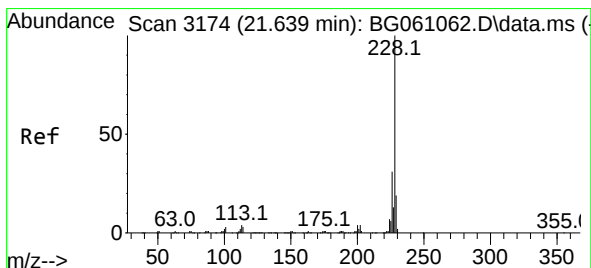
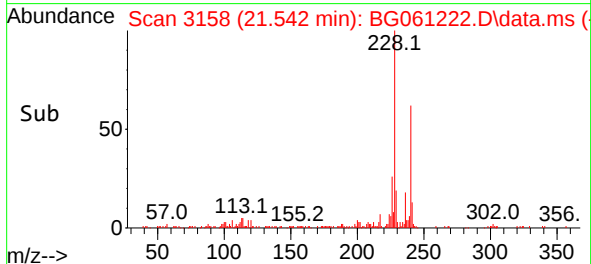
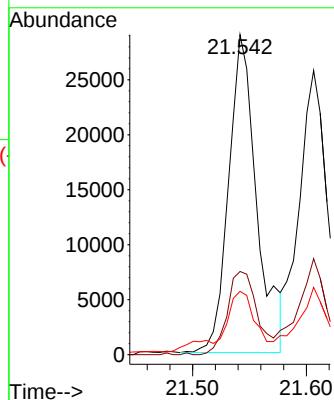
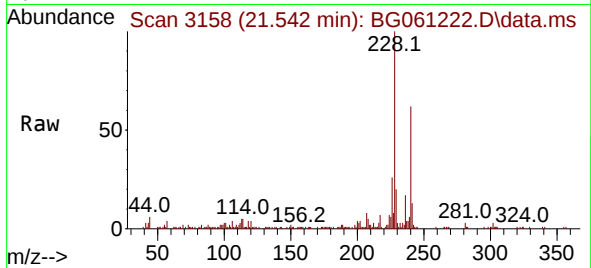




#81  
Benzo(a)anthracene  
Concen: 3.804 ng  
RT: 21.542 min Scan# 3163  
Delta R.T. -0.033 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

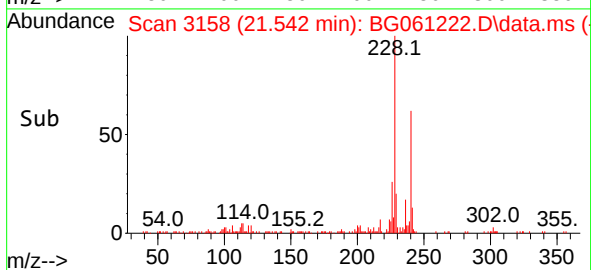
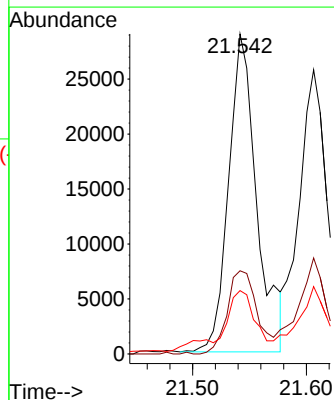
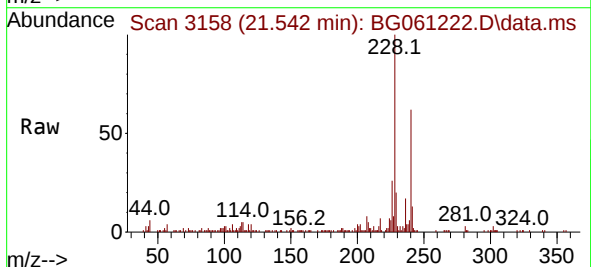
Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

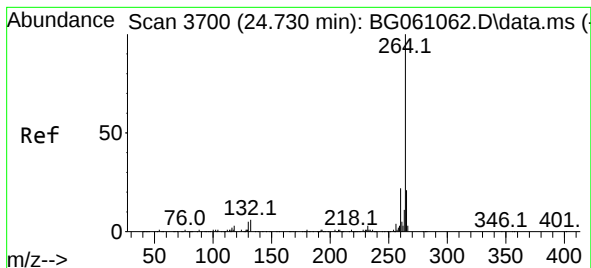
Tgt Ion:228 Resp: 49764  
Ion Ratio Lower Upper  
228 100  
226 26.0 21.6 32.4  
229 19.8 15.0 22.4



#83  
Chrysene  
Concen: 4.060 ng  
RT: 21.542 min Scan# 3158  
Delta R.T. -0.098 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

Tgt Ion:228 Resp: 49764  
Ion Ratio Lower Upper  
228 100  
226 26.0 24.4 36.6  
229 19.8 14.8 22.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.685 min Scan# 3

Delta R.T. -0.045 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

Instrument :

BNA\_G

ClientSampleId :

72-11978

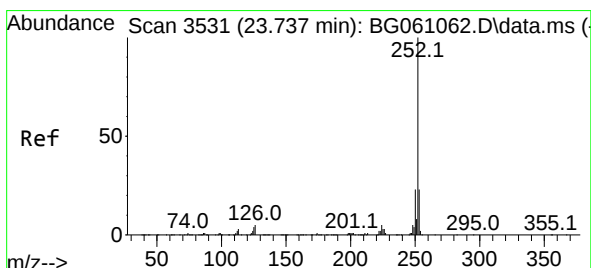
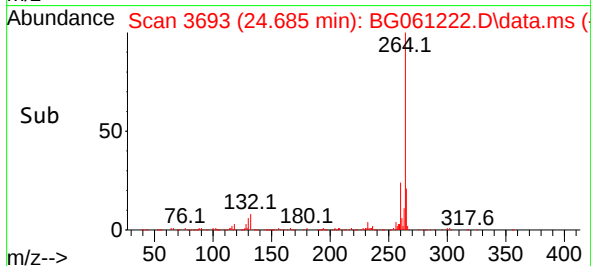
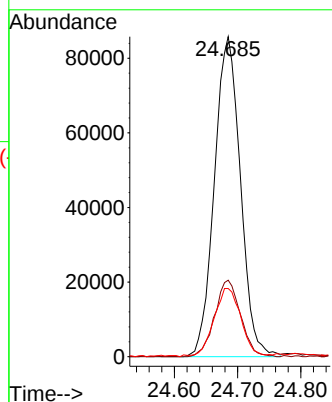
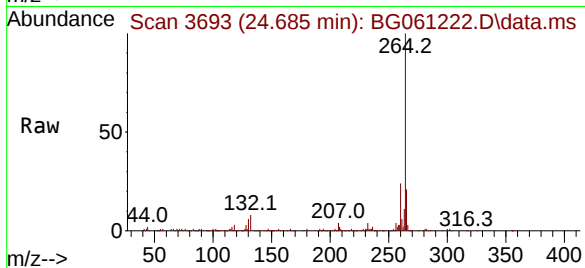
Tgt Ion:264 Resp: 245386

Ion Ratio Lower Upper

264 100

260 23.9 17.7 26.5

265 21.3 16.4 24.6



#88

Benzo(b)fluoranthene

Concen: 4.605 ng

RT: 23.698 min Scan# 3525

Delta R.T. -0.039 min

Lab File: BG061222.D

Acq: 16 May 2024 15:58

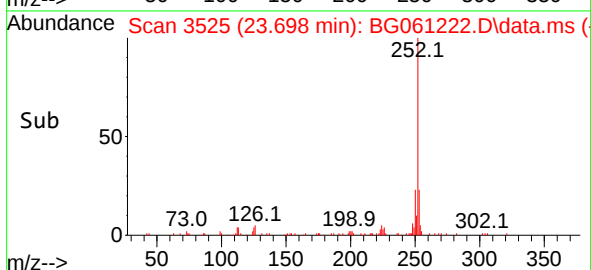
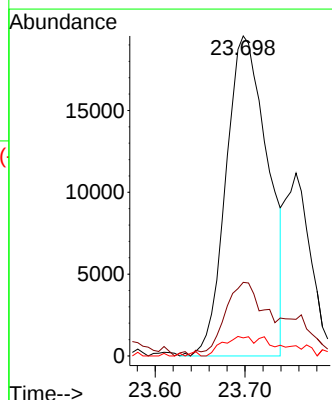
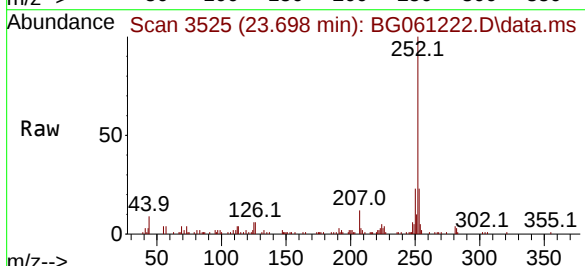
Tgt Ion:252 Resp: 63148

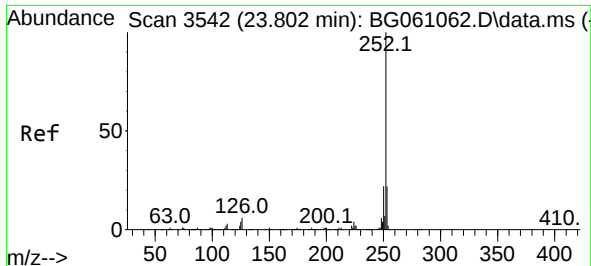
Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

125 5.7 3.4 5.0#

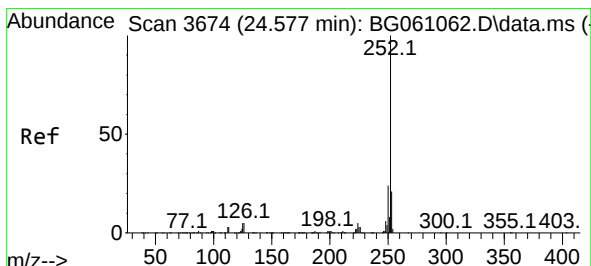
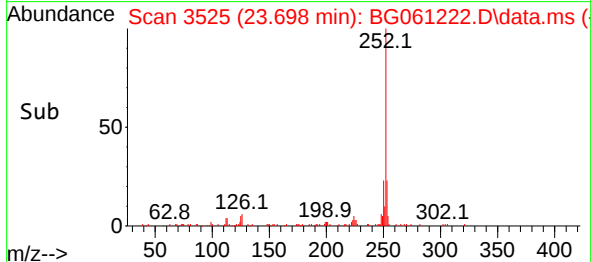
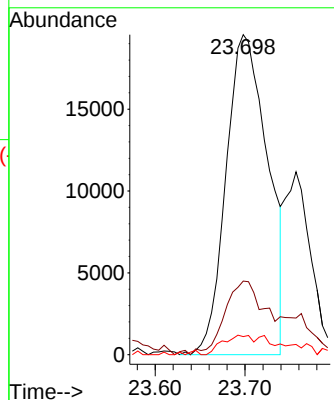
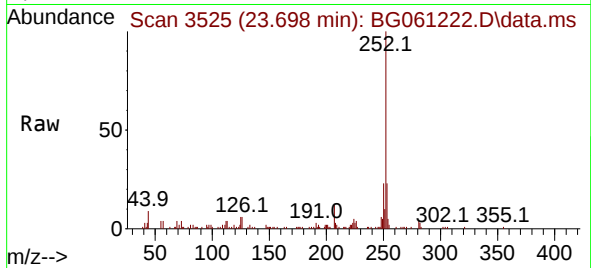




#89  
Benzo(k)fluoranthene  
Concen: 4.787 ng  
RT: 23.698 min Scan# 31  
Delta R.T. -0.104 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

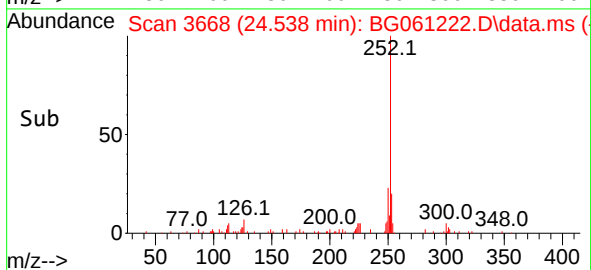
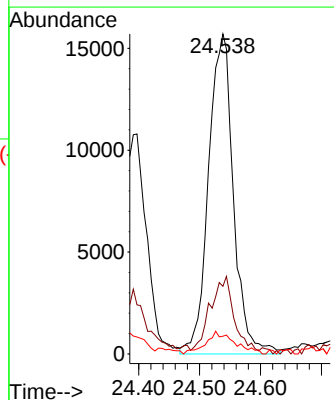
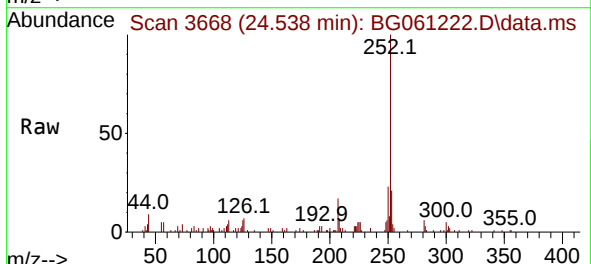
Instrument :  
BNA\_G  
ClientSampleId :  
72-11978

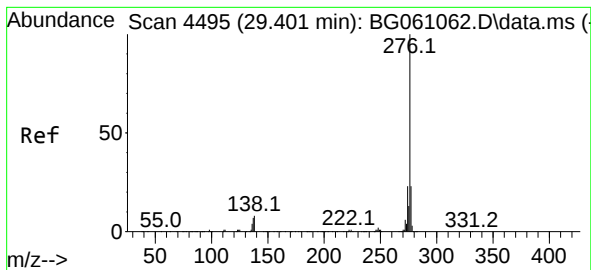
Tgt Ion:252 Resp: 63148  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.3 25.9  
125 5.7 3.2 4.8#



#90  
Benzo(a)pyrene  
Concen: 3.743 ng  
RT: 24.538 min Scan# 3668  
Delta R.T. -0.039 min  
Lab File: BG061222.D  
Acq: 16 May 2024 15:58

Tgt Ion:252 Resp: 44718  
Ion Ratio Lower Upper  
252 100  
253 21.1 16.9 25.3  
125 5.6 3.8 5.8





#92

Benzo(g,h,i)perylene

Concen: 2.136 ng

RT: 29.333 min Scan# 44

Delta R.T. -0.068 min

Lab File: BG061222.D

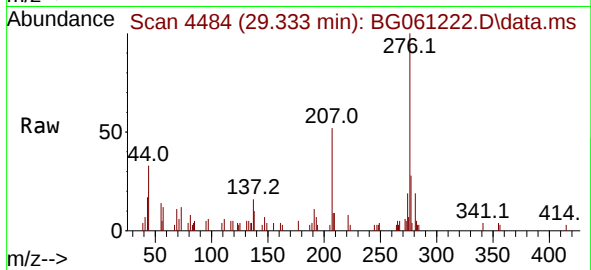
Acq: 16 May 2024 15:58

Instrument :

BNA\_G

ClientSampleId :

72-11978



Tgt Ion:276 Resp: 28583

Ion Ratio Lower Upper

276 100

277 28.1 18.2 27.4#

138 9.8 6.2 9.2#

