

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072222\  
 Data File : BG054362.D  
 Acq On : 22 Jul 2022 16:32  
 Operator : CG/JU  
 Sample : N3814-06  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ENV-DE-3(10-15)

Quant Time: Jul 23 00:11:47 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 15 15:54:11 2022  
 Response via : Initial Calibration

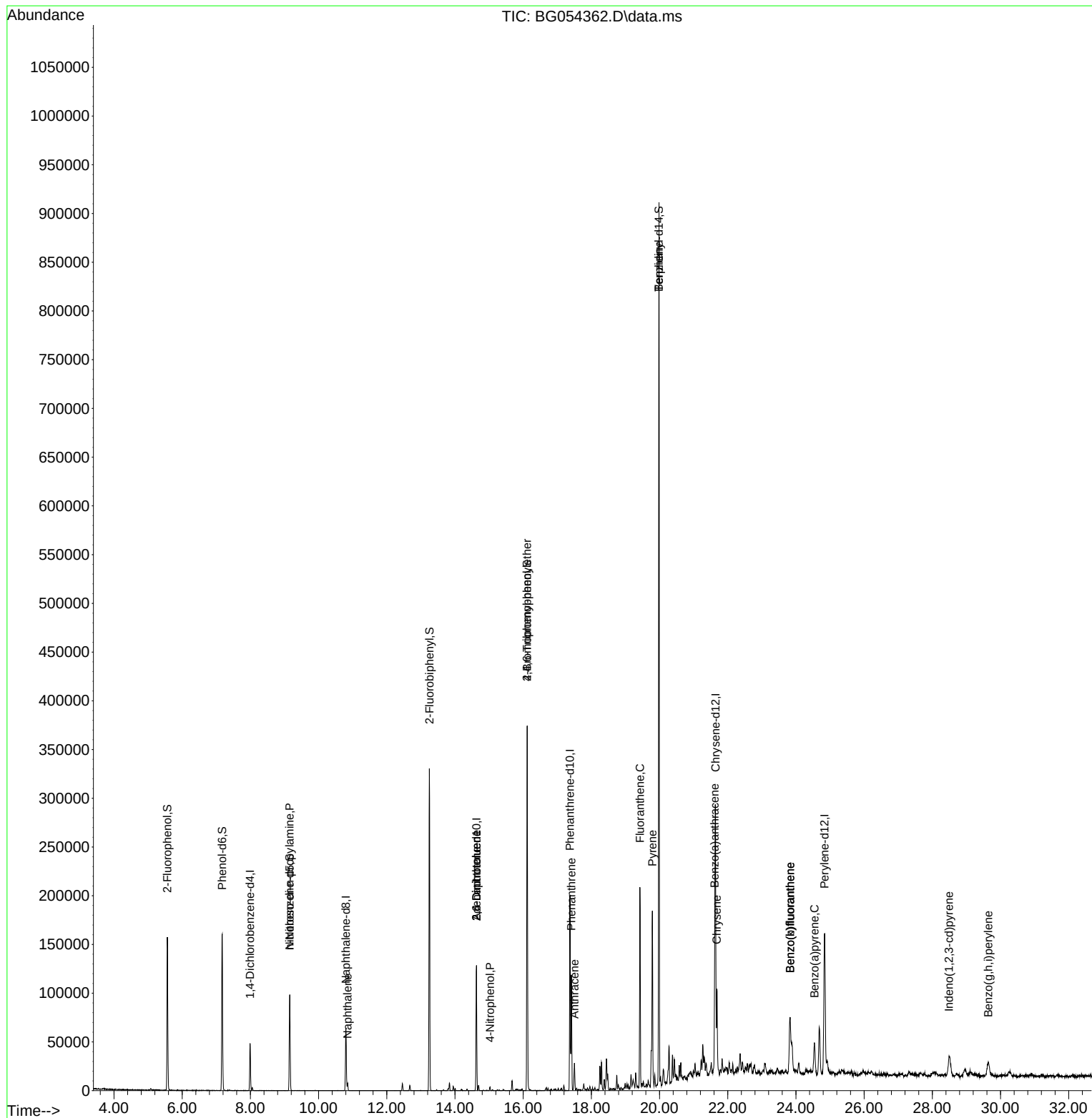
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.991  | 152  | 15662    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.800 | 136  | 58329    | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.630 | 164  | 49431    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.374 | 188  | 143616   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.640 | 240  | 171165   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 24.842 | 264  | 180553   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.565  | 112  | 69222    | 92.279 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.174  | 99   | 91389    | 88.911 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.154  | 82   | 60657    | 56.630 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.117 | 330  | 101949   | 98.229 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.250 | 172  | 191592   | 54.678 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.983 | 244  | 498727   | 57.802 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.154  | 70   | 8298     | 12.089 | ng    | # 86     |
| 31) Naphthalene               | 10.852 | 128  | 7693     | 2.627  | ng    | 96       |
| 51) 2,6-Dinitrotoluene        | 14.630 | 165  | 7175     | 8.472  | ng    | # 16     |
| 56) 4-Nitrophenol             | 15.030 | 139  | 1187     | 2.512  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.630 | 165  | 7175     | 5.910  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether | 16.117 | 248  | 5845     | 2.898  | ng    | # 1      |
| 71) Phenanthrene              | 17.415 | 178  | 85109    | 11.900 | ng    | 98       |
| 72) Anthracene                | 17.503 | 178  | 20897    | 2.977  | ng    | 100      |
| 75) Fluoranthene              | 19.425 | 202  | 144455   | 14.817 | ng    | 94       |
| 77) Benzidine                 | 19.983 | 184  | 6647     | 2.144  | ng    | # 94     |
| 78) Pyrene                    | 19.789 | 202  | 134540   | 13.699 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.616 | 228  | 78542    | 7.229  | ng    | 97       |
| 83) Chrysene                  | 21.681 | 228  | 68955    | 6.717  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.491 | 276  | 40313    | 2.935  | ng    | # 97     |
| 88) Benzo(b)fluoranthene      | 23.831 | 252  | 78341    | 7.337  | ng    | # 99     |
| 89) Benzo(k)fluoranthene      | 23.831 | 252  | 78341    | 7.372  | ng    | # 98     |
| 90) Benzo(a)pyrene            | 24.542 | 252  | 39873    | 4.373  | ng    | 96       |
| 92) Benzo(g,h,i)perylene      | 29.642 | 276  | 36144    | 3.242  | ng    | # 92     |
| -----                         |        |      |          |        |       |          |

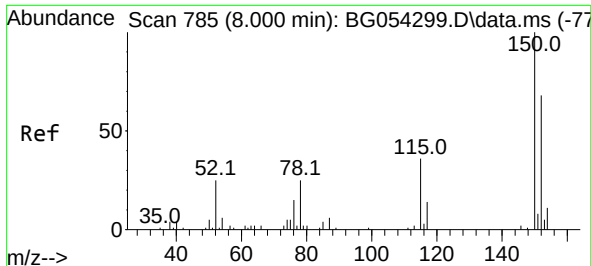
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072222\  
Data File : BG054362.D  
Acq On : 22 Jul 2022 16:32  
Operator : CG/JU  
Sample : N3814-06  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

Quant Time: Jul 23 00:11:47 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 15 15:54:11 2022  
Response via : Initial Calibration

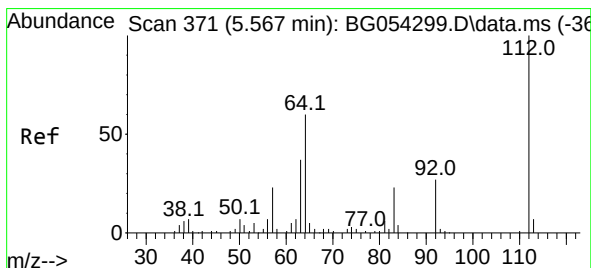
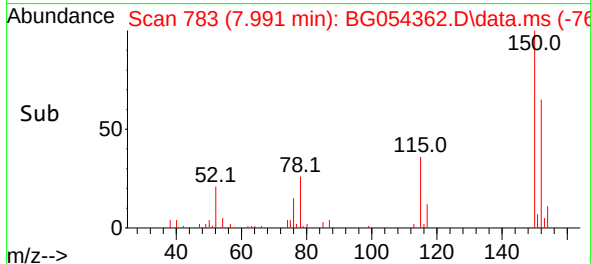
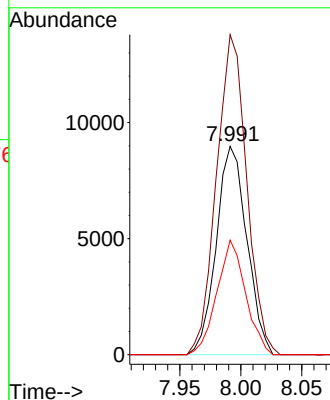
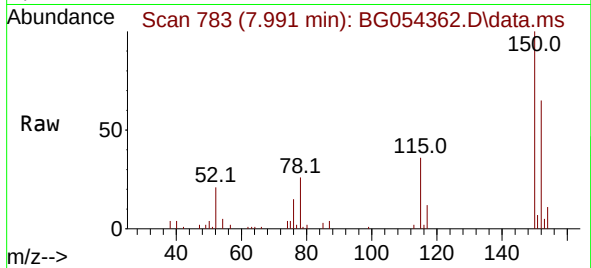




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.991 min Scan# 71  
Delta R.T. -0.009 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

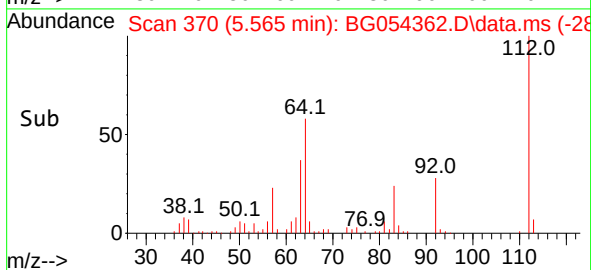
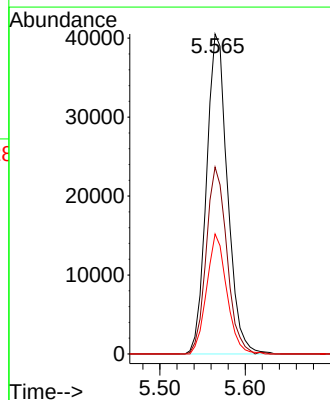
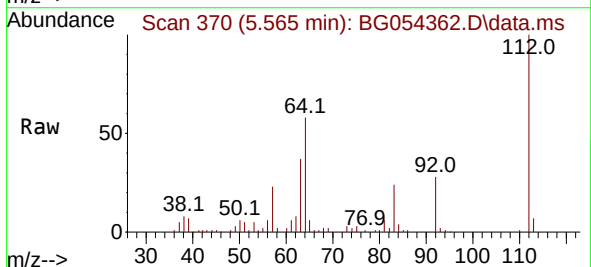
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

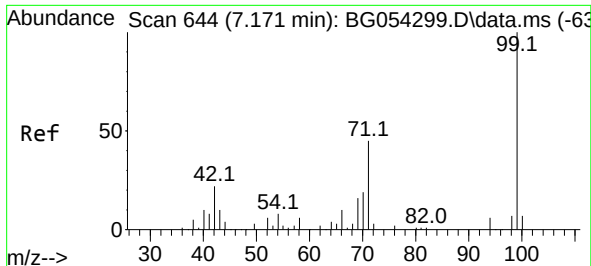
Tgt Ion:152 Resp: 15662  
Ion Ratio Lower Upper  
152 100  
150 153.6 131.6 197.4  
115 55.0 50.9 76.3



#5  
2-Fluorophenol  
Concen: 92.279 ng  
RT: 5.565 min Scan# 370  
Delta R.T. -0.003 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion:112 Resp: 69222  
Ion Ratio Lower Upper  
112 100  
64 58.4 55.1 82.7  
63 37.5 30.4 45.6

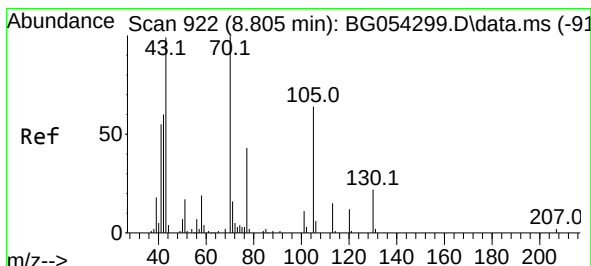
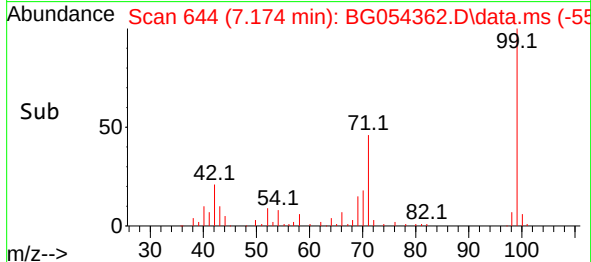
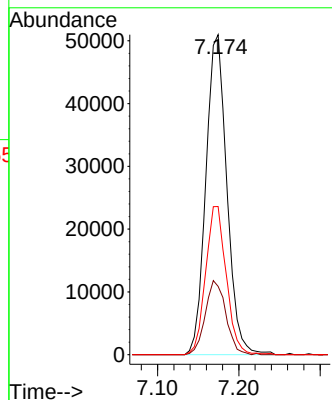
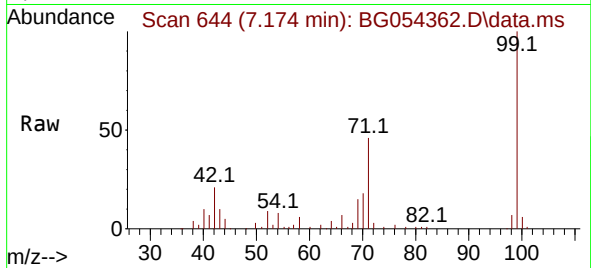




#7  
Phenol-d6  
Concen: 88.911 ng  
RT: 7.174 min Scan# 64  
Delta R.T. 0.003 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

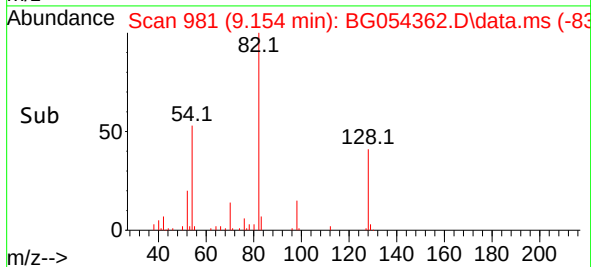
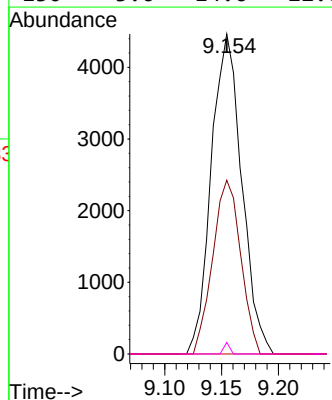
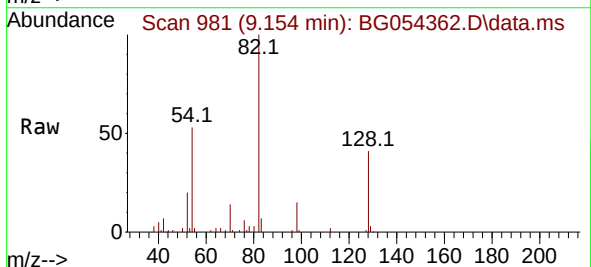
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

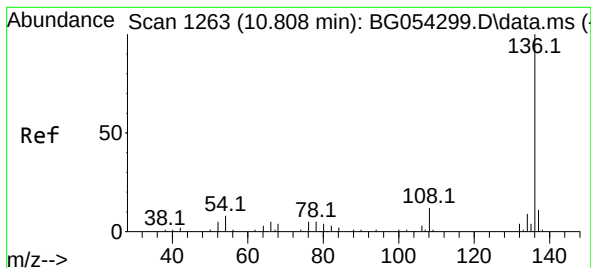
Tgt Ion: 99 Resp: 91389  
Ion Ratio Lower Upper  
99 100  
42 21.4 17.0 25.6  
71 46.3 33.8 50.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 12.089 ng  
RT: 9.154 min Scan# 981  
Delta R.T. 0.350 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion: 70 Resp: 8298  
Ion Ratio Lower Upper  
70 100  
42 54.3 47.3 70.9  
101 0.0 7.0 10.4#  
130 3.6 14.6 22.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.800 min Scan# 11

Delta R.T. -0.008 min

Lab File: BG054362.D

Acq: 22 Jul 2022 16:32

Instrument :

BNA\_G

ClientSampleId :

ENV-DE-3(10-15)

Tgt Ion:136 Resp: 58329

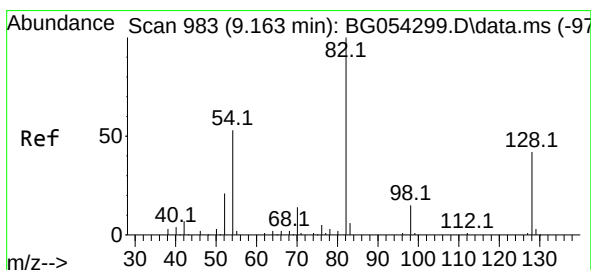
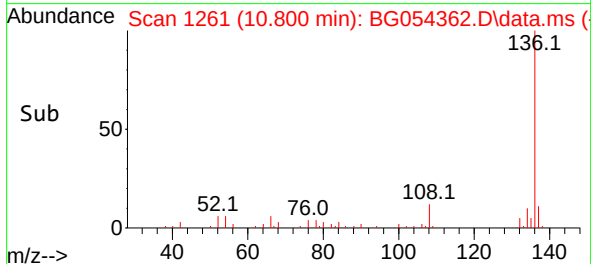
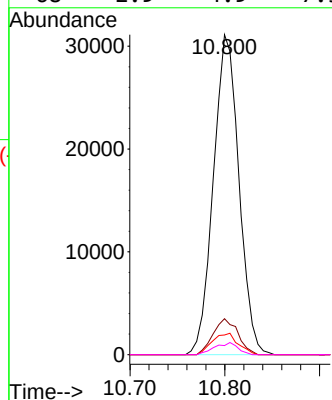
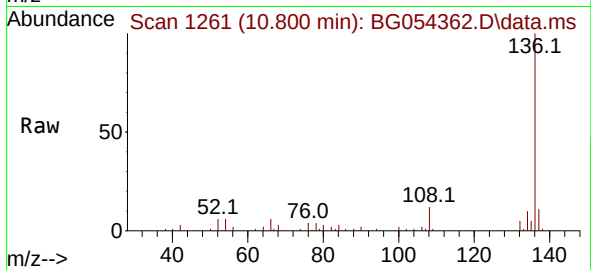
Ion Ratio Lower Upper

136 100

137 11.3 8.5 12.7

54 6.2 7.4 11.2#

68 2.9 4.9 7.3#



#23

Nitrobenzene-d5

Concen: 56.630 ng

RT: 9.154 min Scan# 981

Delta R.T. -0.009 min

Lab File: BG054362.D

Acq: 22 Jul 2022 16:32

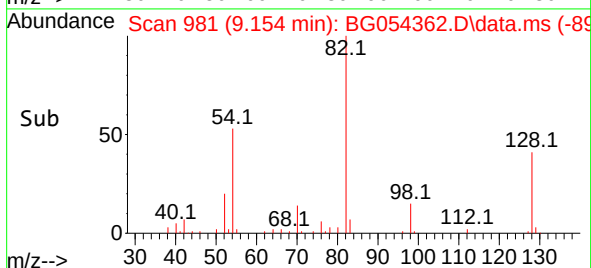
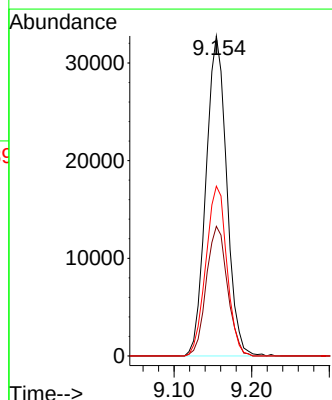
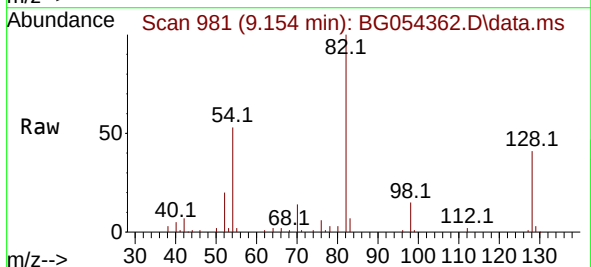
Tgt Ion: 82 Resp: 60657

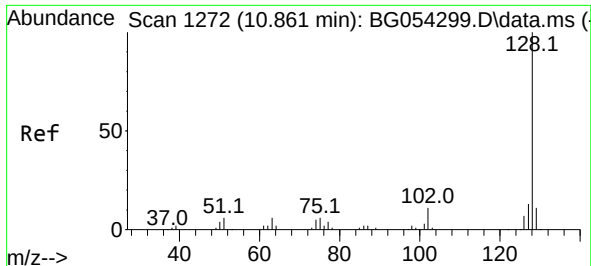
Ion Ratio Lower Upper

82 100

128 40.5 27.9 41.9

54 53.1 41.2 61.8

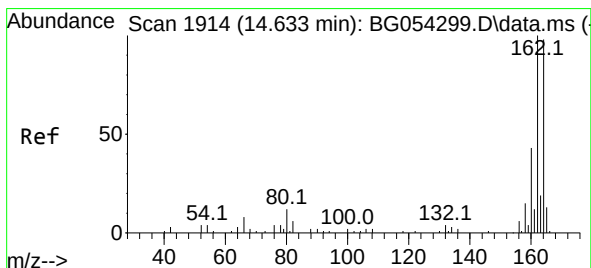
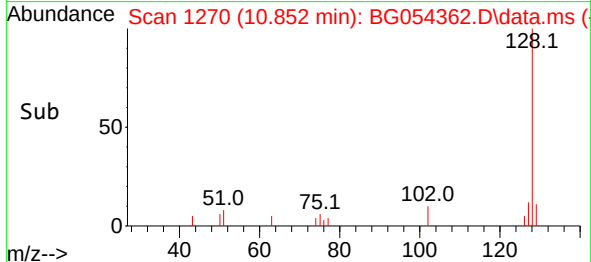
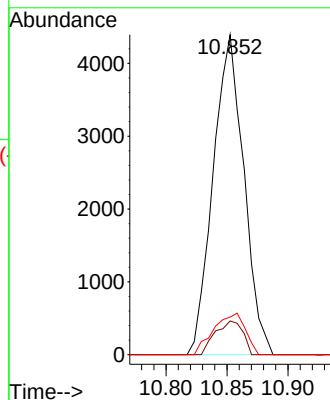
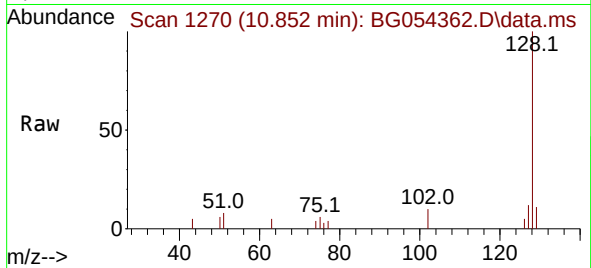




#31  
Naphthalene  
Concen: 2.627 ng  
RT: 10.852 min Scan# 11  
Delta R.T. -0.009 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

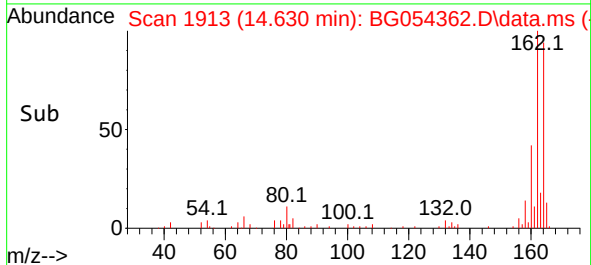
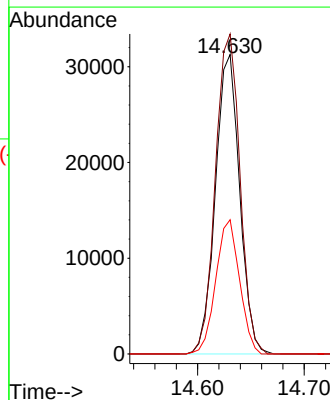
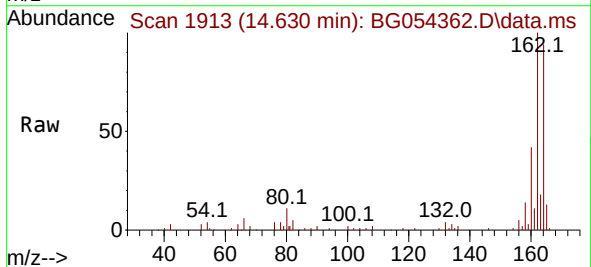
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

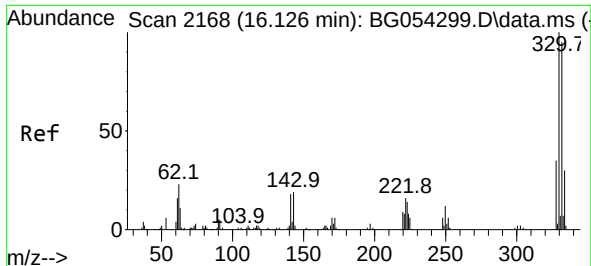
Tgt Ion:128 Resp: 7693  
Ion Ratio Lower Upper  
128 100  
129 10.6 9.0 13.6  
127 11.7 11.1 16.7



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.630 min Scan# 1913  
Delta R.T. -0.003 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion:164 Resp: 49431  
Ion Ratio Lower Upper  
164 100  
162 106.9 82.3 123.5  
160 44.8 34.2 51.2

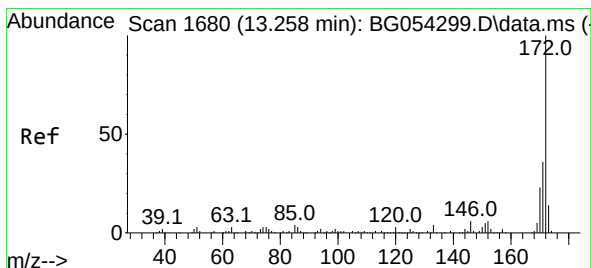
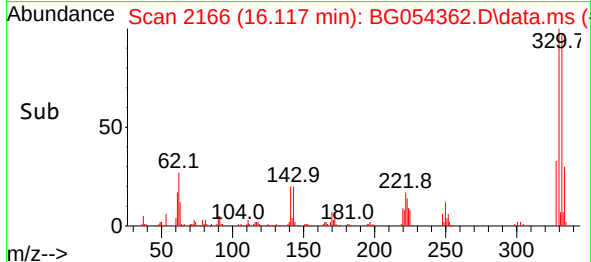
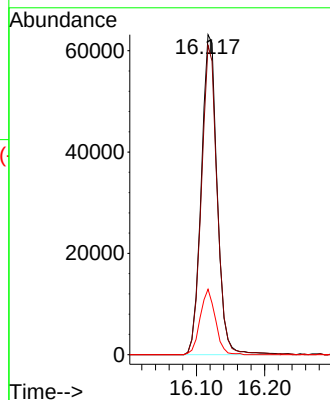
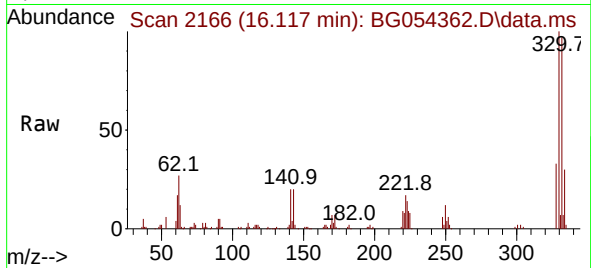




#42  
 2,4,6-Tribromophenol  
 Concen: 98.229 ng  
 RT: 16.117 min Scan# 2168  
 Delta R.T. -0.009 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

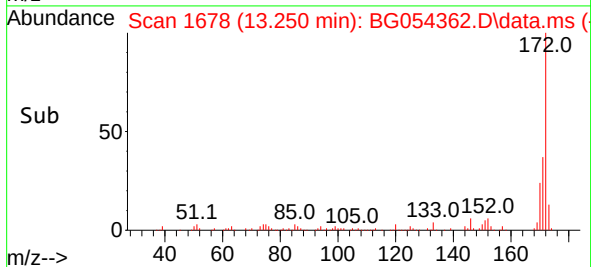
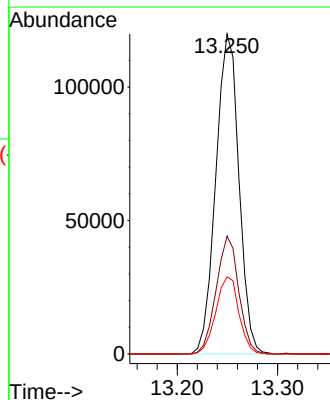
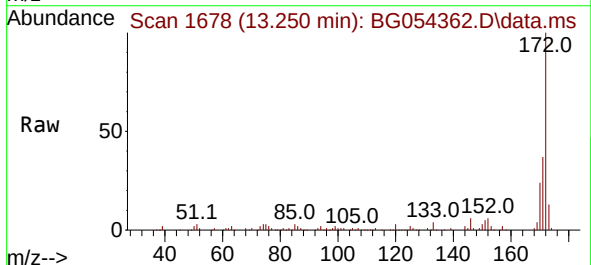
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ENV-DE-3(10-15)

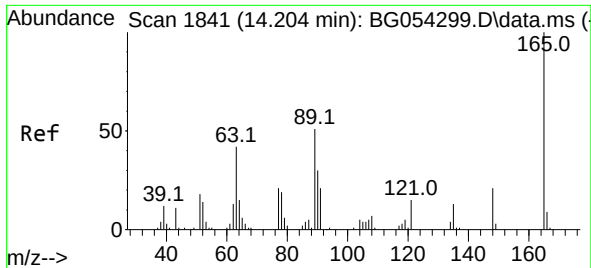
Tgt Ion:330 Resp: 101949  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 76.0 114.0  
 141 19.6 27.1 40.7#



#45  
 2-Fluorobiphenyl  
 Concen: 54.678 ng  
 RT: 13.250 min Scan# 1678  
 Delta R.T. -0.009 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

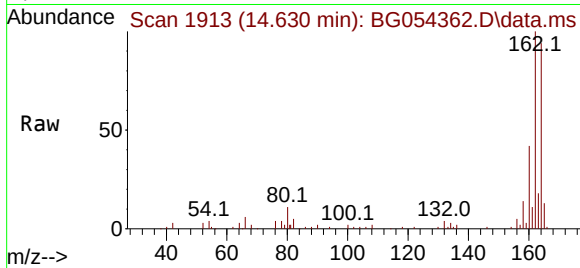
Tgt Ion:172 Resp: 191592  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 28.5 42.7  
 170 24.1 18.9 28.3



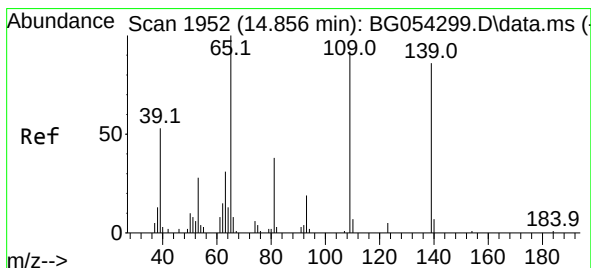
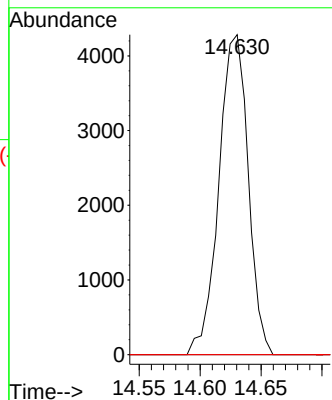
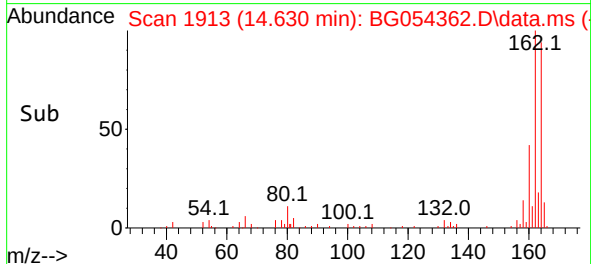


#51  
2,6-Dinitrotoluene  
Concen: 8.472 ng  
RT: 14.630 min Scan# 1913  
Delta R.T. 0.426 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

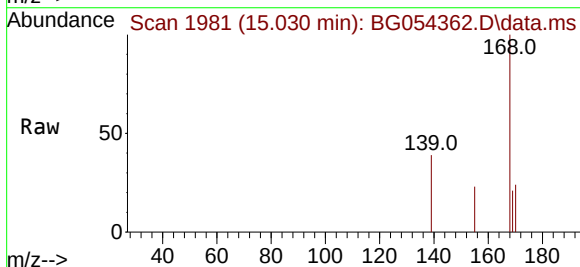
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)



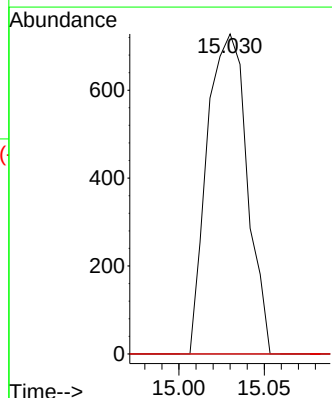
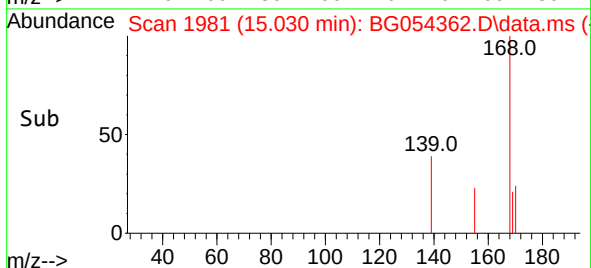
Tgt Ion:165 Resp: 7175  
Ion Ratio Lower Upper  
165 100  
63 0.0 54.1 81.1#  
89 0.0 54.8 82.2#



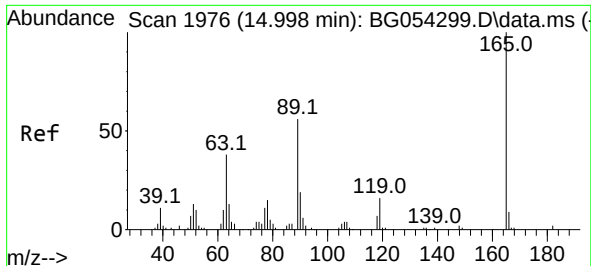
#56  
4-Nitrophenol  
Concen: 2.512 ng  
RT: 15.030 min Scan# 1981  
Delta R.T. 0.174 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32



Tgt Ion:139 Resp: 1187  
Ion Ratio Lower Upper  
139 100  
109 0.0 88.5 128.5#  
65 0.0 93.9 133.9#







#57

2,4-Dinitrotoluene

Concen: 5.910 ng

RT: 14.630 min Scan# 1976

Delta R.T. -0.367 min

Lab File: BG054362.D

Acq: 22 Jul 2022 16:32

Instrument :

BNA\_G

ClientSampleId :

ENV-DE-3(10-15)

Tgt Ion:165 Resp: 7175

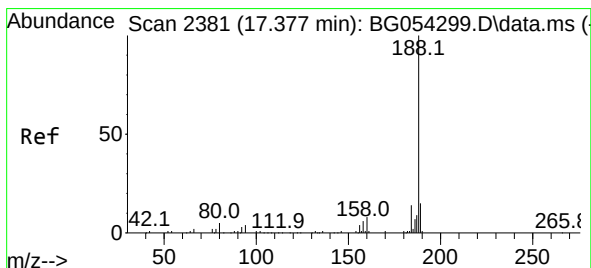
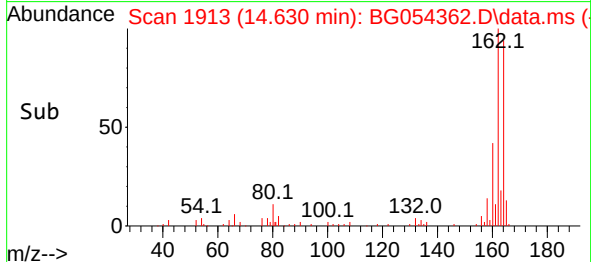
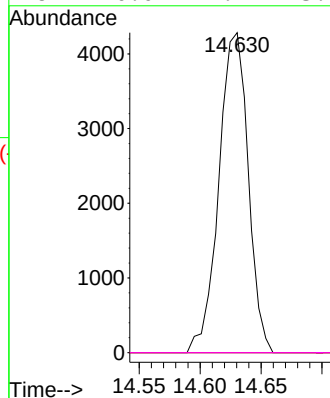
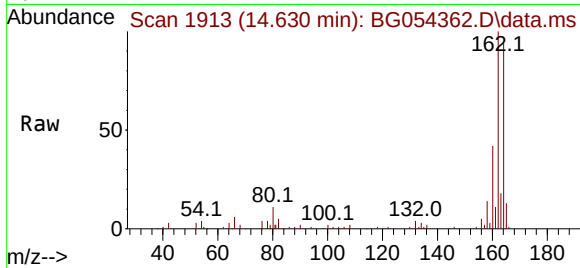
Ion Ratio Lower Upper

165 100

63 0.0 34.6 52.0#

89 0.0 60.3 90.5#

182 0.0 2.2 3.4#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.374 min Scan# 2380

Delta R.T. -0.003 min

Lab File: BG054362.D

Acq: 22 Jul 2022 16:32

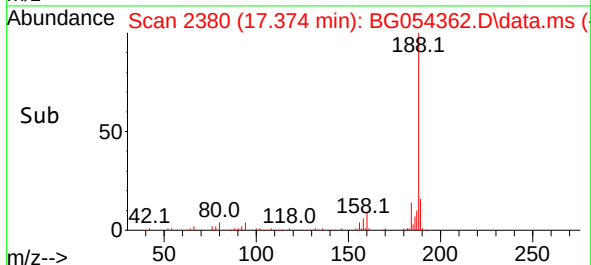
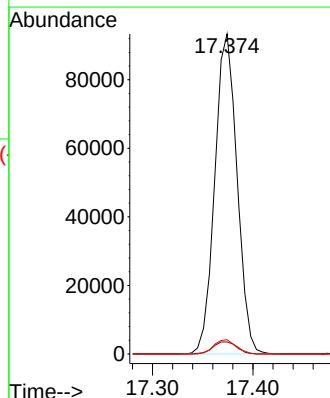
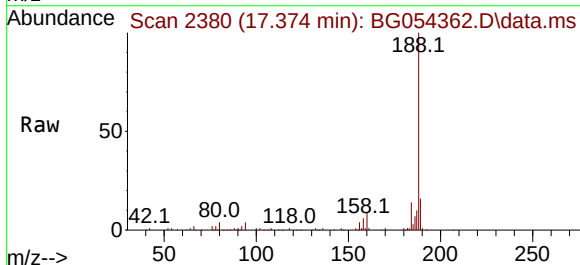
Tgt Ion:188 Resp: 143616

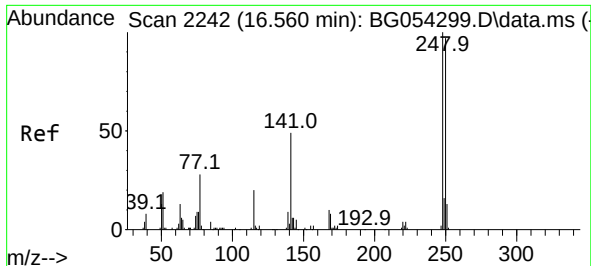
Ion Ratio Lower Upper

188 100

94 3.8 5.4 8.0#

80 4.4 6.8 10.2#

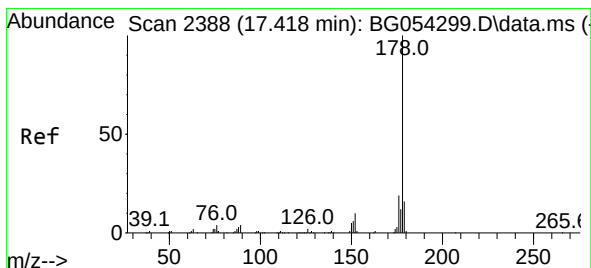
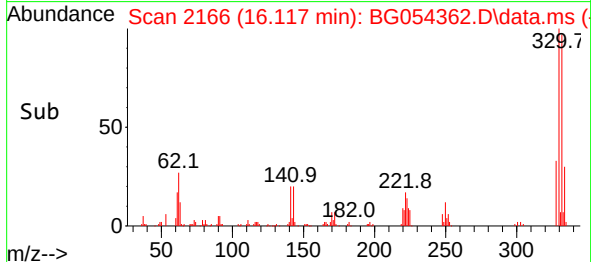
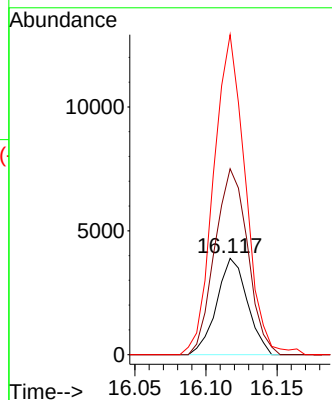
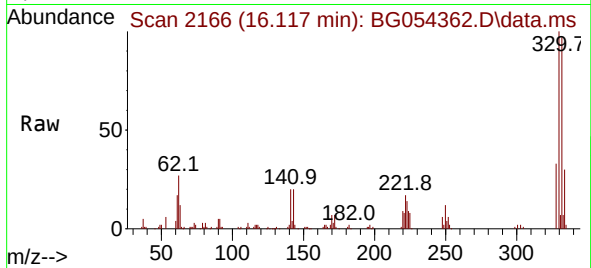




#67  
4-Bromophenyl-phenylether  
Concen: 2.898 ng  
RT: 16.117 min Scan# 2166  
Delta R.T. -0.443 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

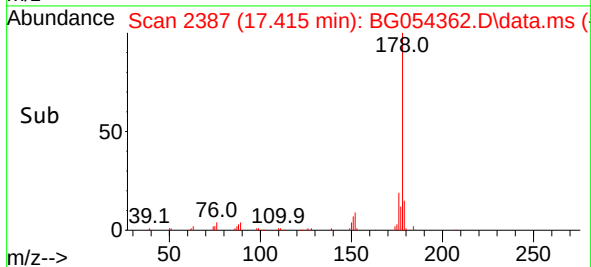
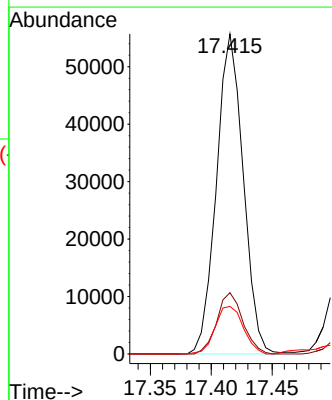
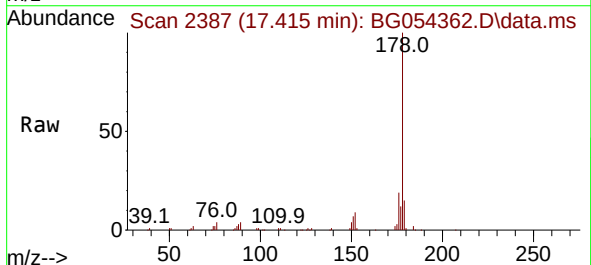
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

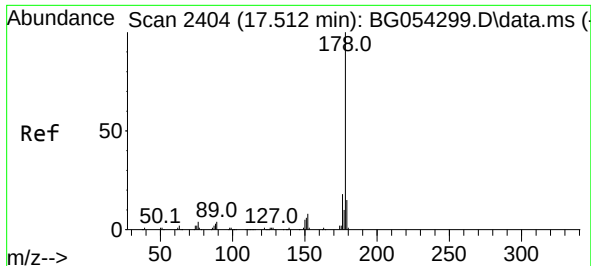
Tgt Ion:248 Resp: 5845  
Ion Ratio Lower Upper  
248 100  
250 145.4 75.2 112.8#  
141 250.3 50.0 75.0#



#71  
Phenanthrene  
Concen: 11.900 ng  
RT: 17.415 min Scan# 2387  
Delta R.T. -0.003 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion:178 Resp: 85109  
Ion Ratio Lower Upper  
178 100  
176 19.1 14.1 21.1  
179 14.9 12.1 18.1

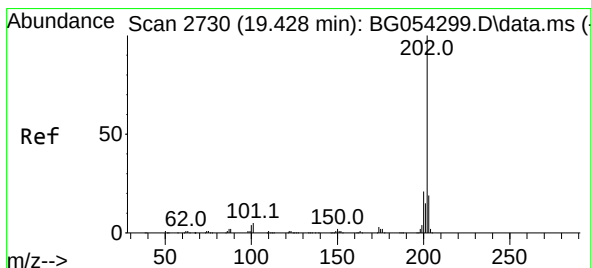
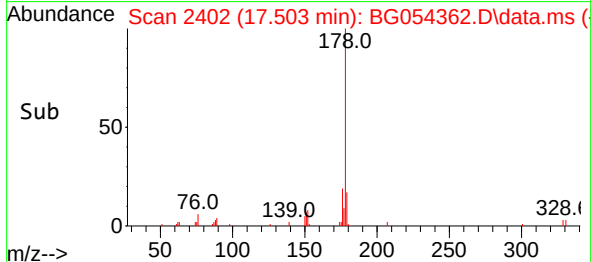
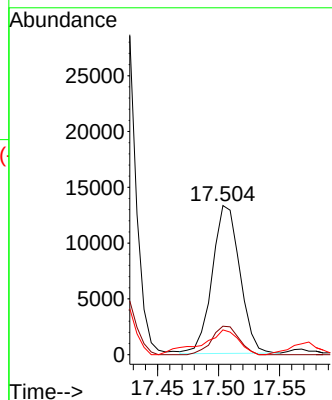
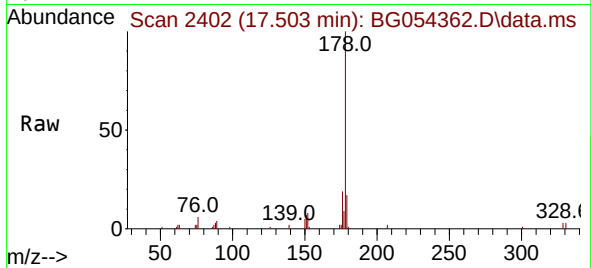




#72  
 Anthracene  
 Concen: 2.977 ng  
 RT: 17.503 min Scan# 24  
 Delta R.T. -0.009 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

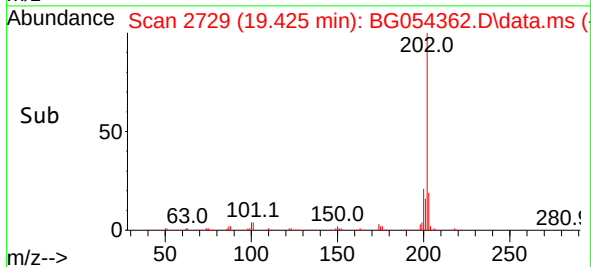
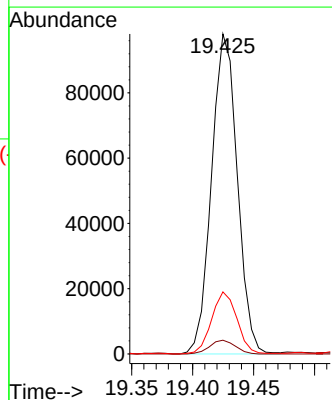
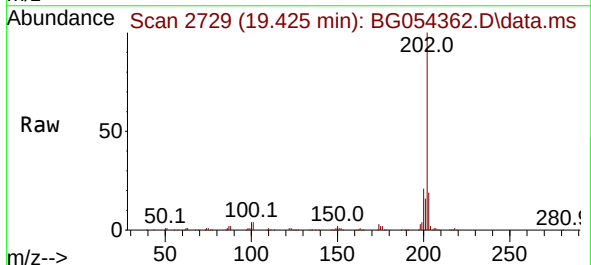
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ENV-DE-3(10-15)

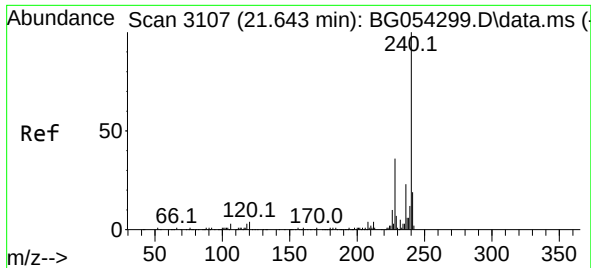
Tgt Ion:178 Resp: 20897  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 15.2 22.8  
 179 16.6 13.0 19.4



#75  
 Fluoranthene  
 Concen: 14.817 ng  
 RT: 19.425 min Scan# 2729  
 Delta R.T. -0.003 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

Tgt Ion:202 Resp: 144455  
 Ion Ratio Lower Upper  
 202 100  
 101 4.3 0.0 26.9  
 203 19.4 0.0 37.2

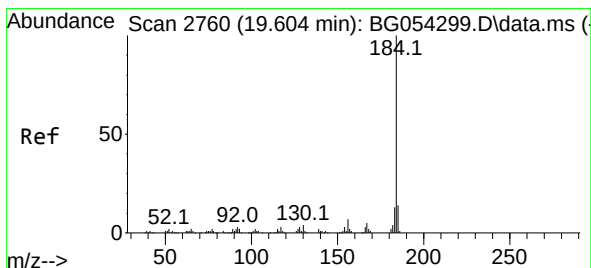
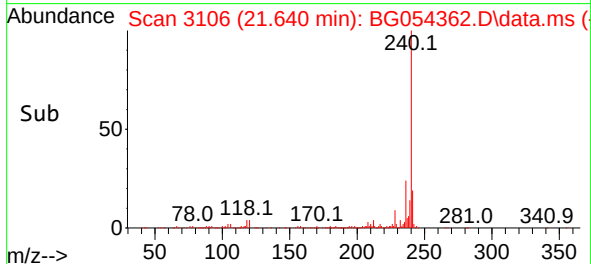
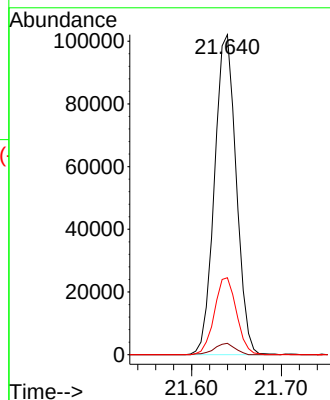
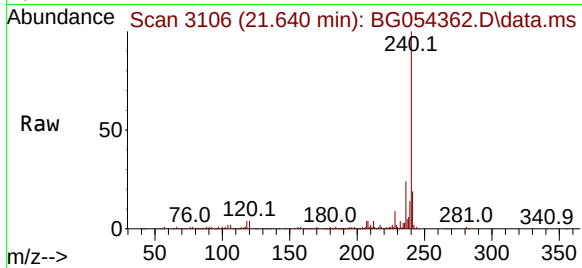




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.640 min Scan# 3107  
Delta R.T. -0.003 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

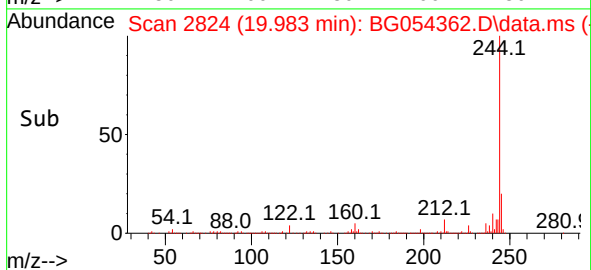
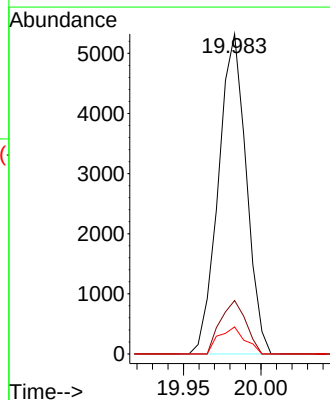
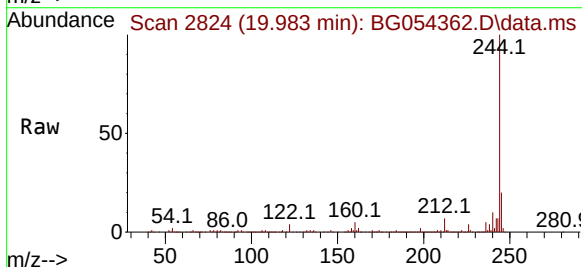
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

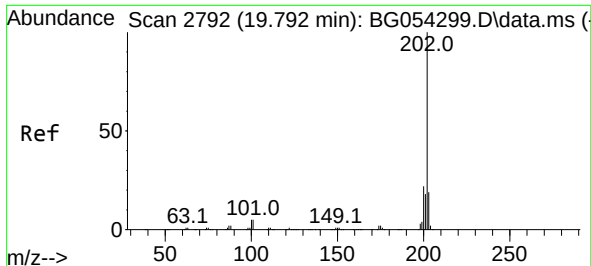
Tgt Ion:240 Resp: 171165  
Ion Ratio Lower Upper  
240 100  
120 3.6 4.6 7.0#  
236 24.0 20.2 30.4



#77  
Benzidine  
Concen: 2.144 ng  
RT: 19.983 min Scan# 2824  
Delta R.T. 0.379 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion:184 Resp: 6647  
Ion Ratio Lower Upper  
184 100  
185 16.7 11.8 17.6  
183 8.4 8.9 13.3#

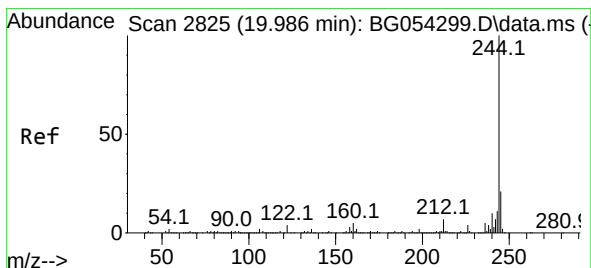
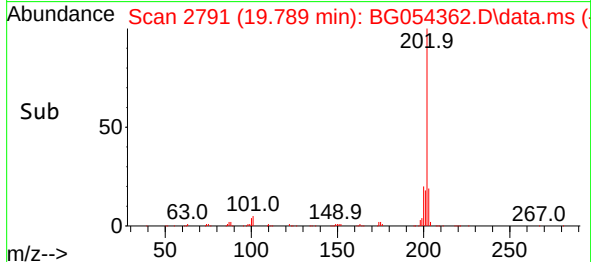
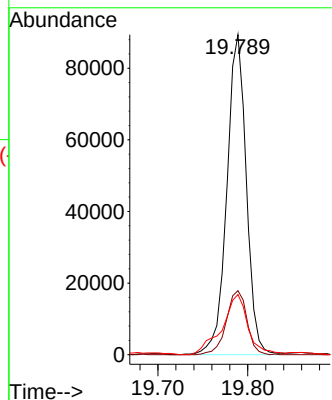
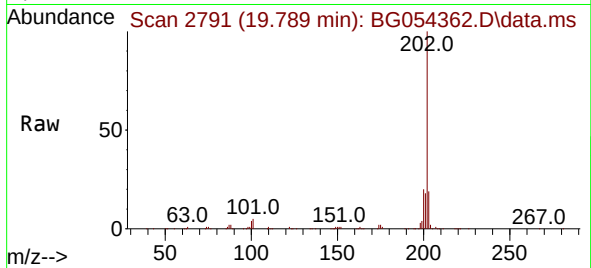




#78  
 Pyrene  
 Concen: 13.699 ng  
 RT: 19.789 min Scan# 21  
 Delta R.T. -0.003 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

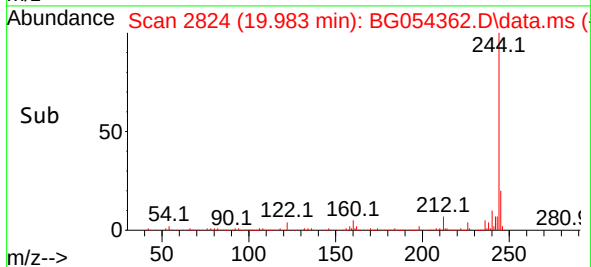
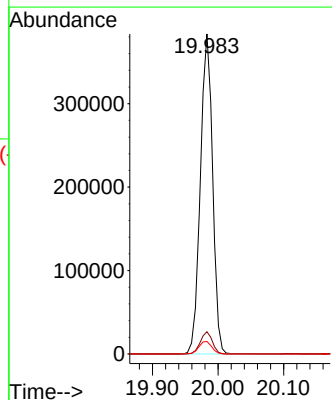
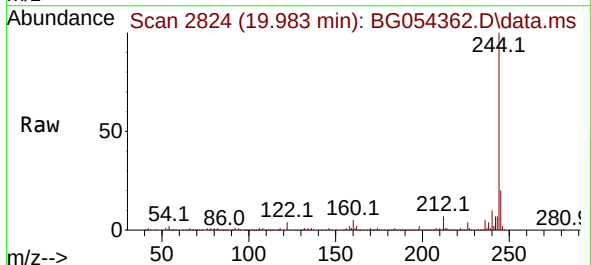
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ENV-DE-3(10-15)

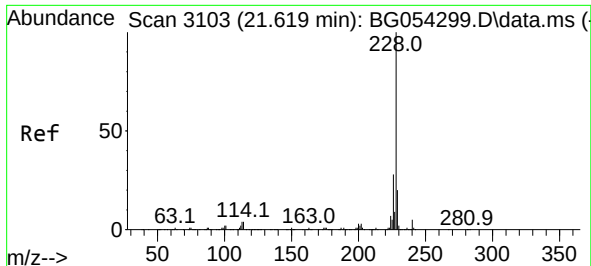
Tgt Ion:202 Resp: 134540  
 Ion Ratio Lower Upper  
 202 100  
 200 20.0 16.6 24.8  
 203 18.8 14.6 21.8



#79  
 Terphenyl-d14  
 Concen: 57.802 ng  
 RT: 19.983 min Scan# 2824  
 Delta R.T. -0.003 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

Tgt Ion:244 Resp: 498727  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 6.5 9.7  
 122 3.9 5.0 7.4#

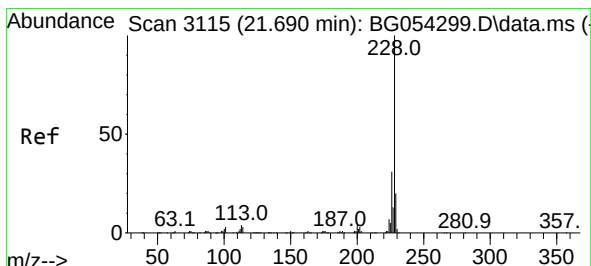
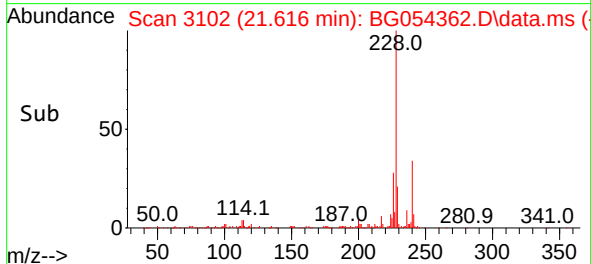
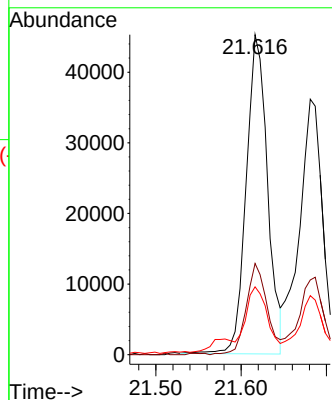
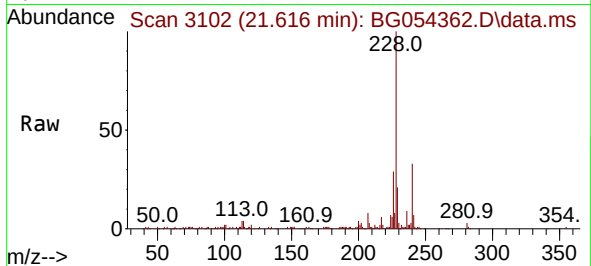




#81  
Benzo(a)anthracene  
Concen: 7.229 ng  
RT: 21.616 min Scan# 3102  
Delta R.T. -0.003 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

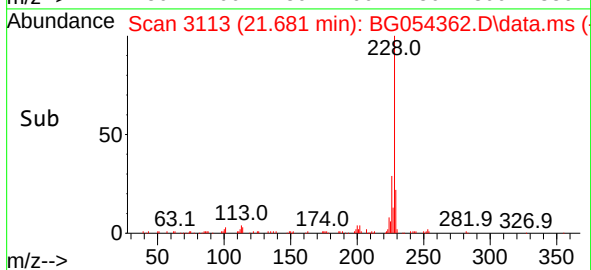
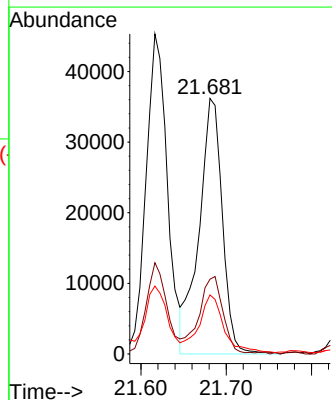
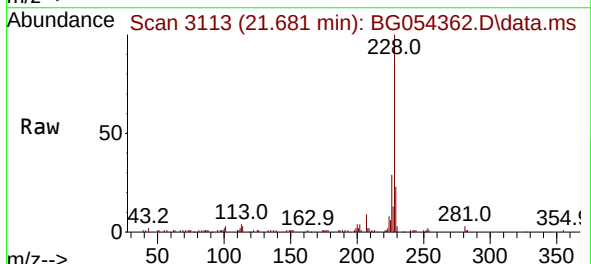
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

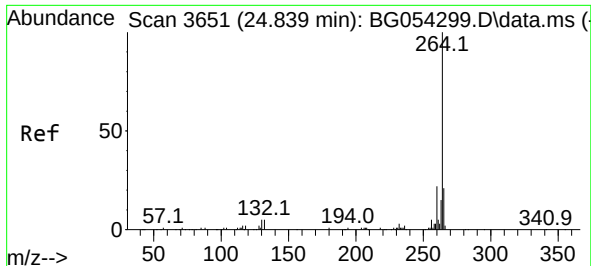
Tgt Ion:228 Resp: 78542  
Ion Ratio Lower Upper  
228 100  
226 28.5 21.6 32.4  
229 21.2 16.2 24.2



#83  
Chrysene  
Concen: 6.717 ng  
RT: 21.681 min Scan# 3113  
Delta R.T. -0.009 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion:228 Resp: 68955  
Ion Ratio Lower Upper  
228 100  
226 29.2 23.4 35.2  
229 23.1 15.5 23.3

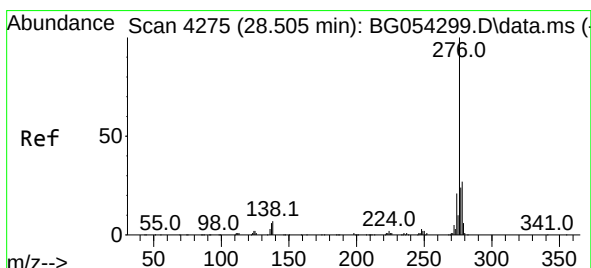
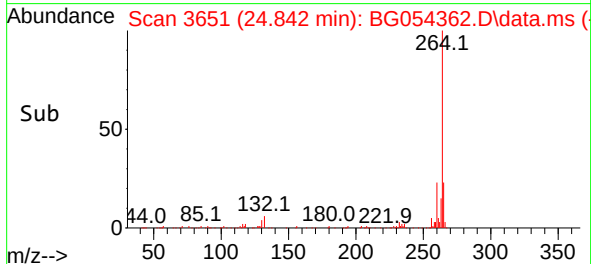
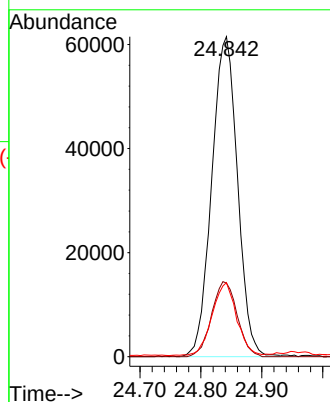
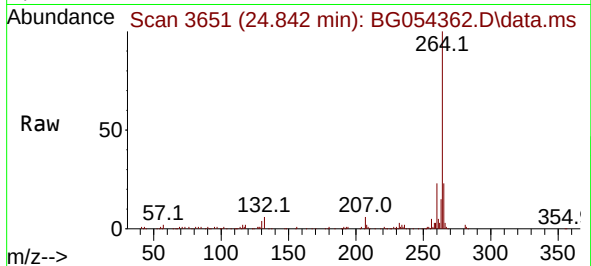




#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.842 min Scan# 30  
 Delta R.T. 0.003 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

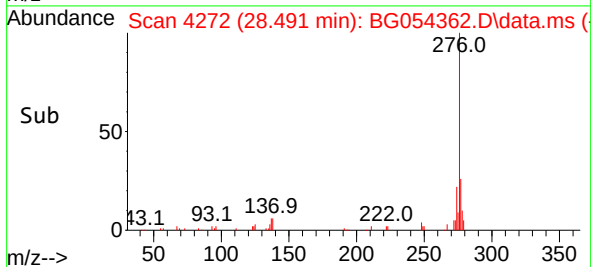
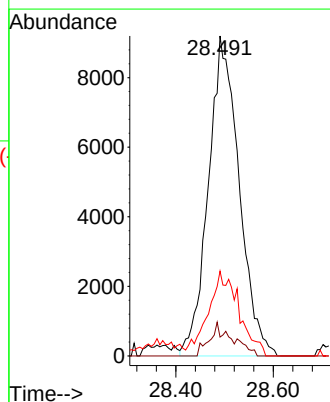
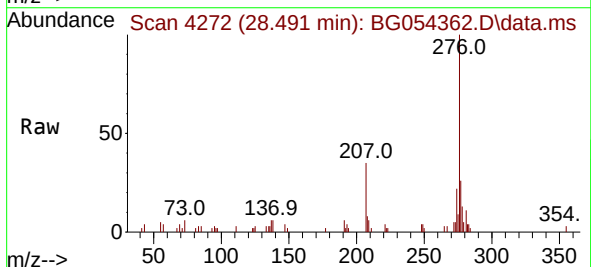
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ENV-DE-3(10-15)

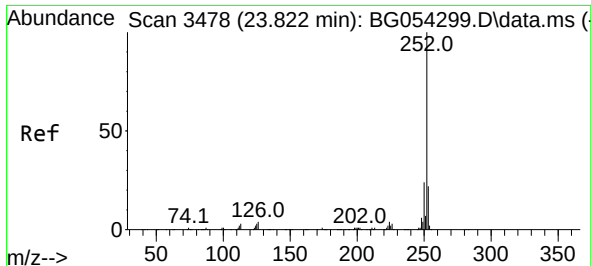
Tgt Ion:264 Resp: 180553  
 Ion Ratio Lower Upper  
 264 100  
 260 23.0 19.0 28.6  
 265 23.2 17.4 26.2



#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.935 ng  
 RT: 28.491 min Scan# 4272  
 Delta R.T. -0.015 min  
 Lab File: BG054362.D  
 Acq: 22 Jul 2022 16:32

Tgt Ion:276 Resp: 40313  
 Ion Ratio Lower Upper  
 276 100  
 138 4.1 5.0 7.4#  
 277 26.6 20.3 30.5

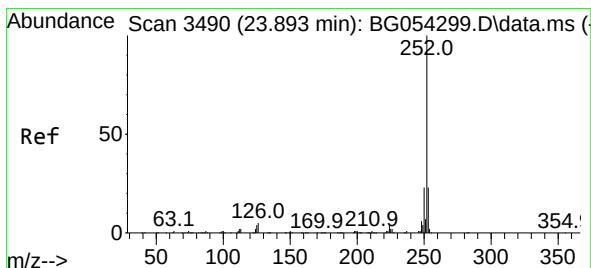
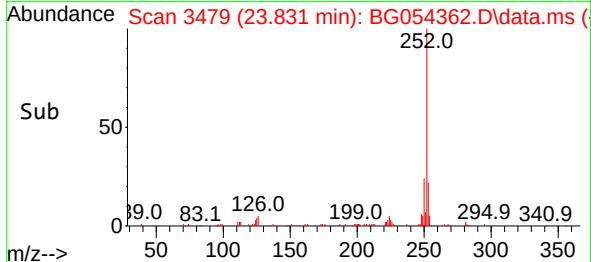
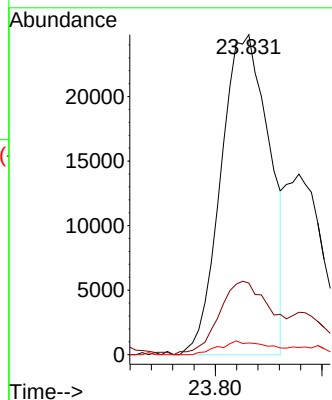
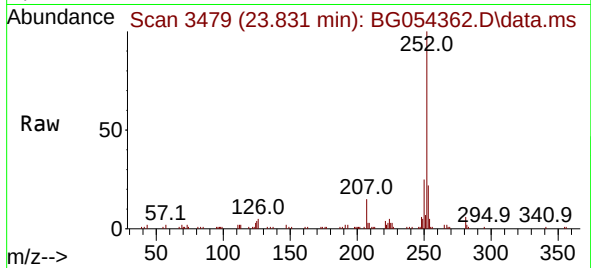




#88  
Benzo(b)fluoranthene  
Concen: 7.337 ng  
RT: 23.831 min Scan# 3478  
Delta R.T. 0.009 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

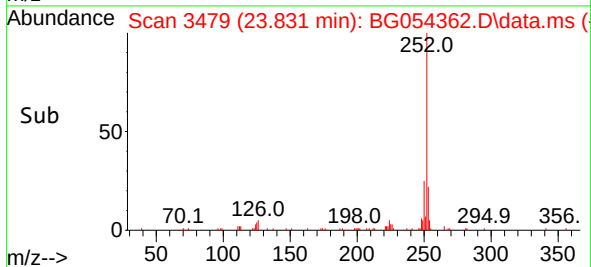
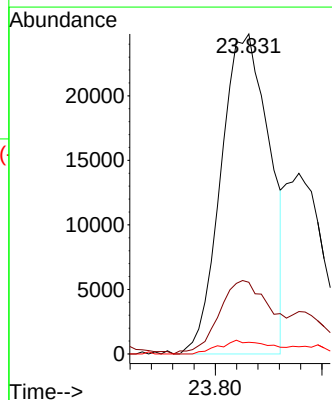
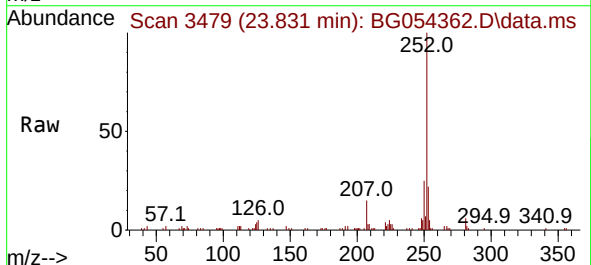
Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

Tgt Ion:252 Resp: 78341  
Ion Ratio Lower Upper  
252 100  
253 22.4 18.0 27.0  
125 3.6 4.6 6.8#

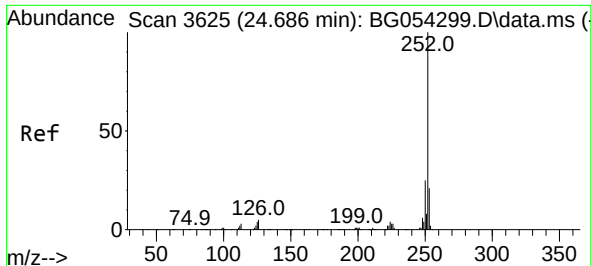


#89  
Benzo(k)fluoranthene  
Concen: 7.372 ng  
RT: 23.831 min Scan# 3479  
Delta R.T. -0.062 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion:252 Resp: 78341  
Ion Ratio Lower Upper  
252 100  
253 22.4 18.4 27.6  
125 3.6 4.8 7.2#



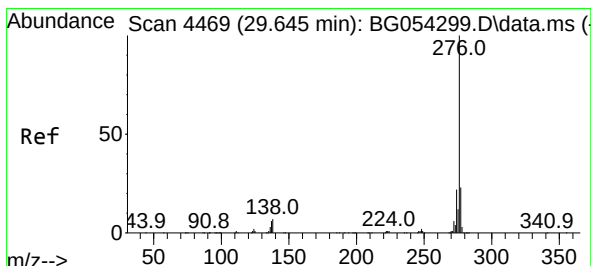
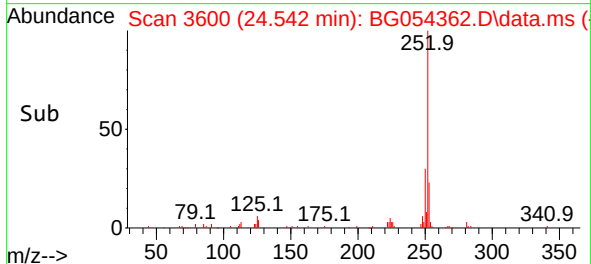
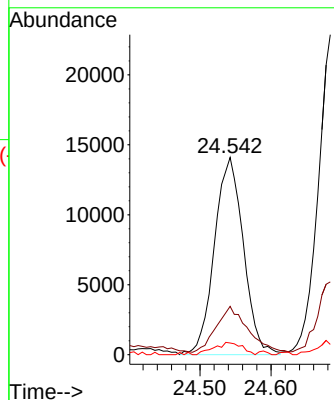
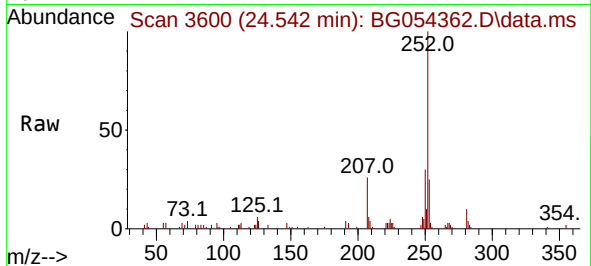




#90  
Benzo(a)pyrene  
Concen: 4.373 ng  
RT: 24.542 min Scan# 3600  
Delta R.T. -0.144 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
ENV-DE-3(10-15)

Tgt Ion:252 Resp: 39873  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.8 26.8  
125 5.9 4.3 6.5



#92  
Benzo(g,h,i)perylene  
Concen: 3.242 ng  
RT: 29.642 min Scan# 4468  
Delta R.T. -0.003 min  
Lab File: BG054362.D  
Acq: 22 Jul 2022 16:32

Tgt Ion:276 Resp: 36144  
Ion Ratio Lower Upper  
276 100  
277 23.9 17.3 25.9  
138 6.2 9.6 14.4#

