

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062922\  
 Data File : BG054163.D  
 Acq On : 30 Jun 2022 2:50  
 Operator : CG/JU  
 Sample : N3488-06DL 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-11-0-2-20220623DL

Quant Time: Jun 30 05:34:39 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG061322.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 27 00:27:54 2022  
 Response via : Initial Calibration

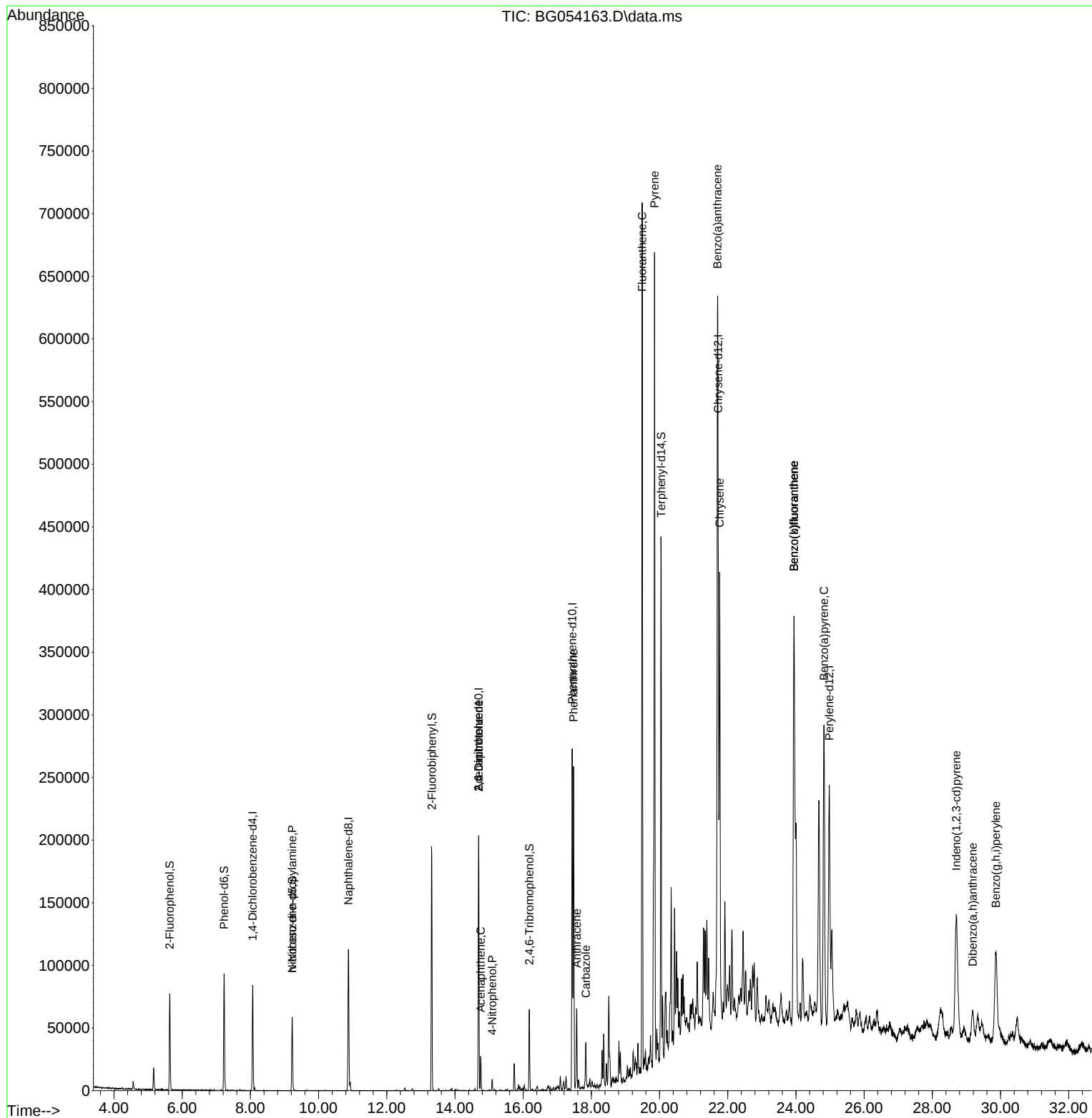
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.067  | 152  | 25713    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.876 | 136  | 104737   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.695 | 164  | 79354    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.439 | 188  | 195362   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.716 | 240  | 206258   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.977 | 264  | 219604   | 20.000 | ng    | 0.01     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.635  | 112  | 37302    | 27.736 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.227  | 99   | 58253    | 31.929 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.225  | 82   | 38146    | 20.467 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.181 | 330  | 16053    | 12.591 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.320 | 172  | 116252   | 21.303 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.047 | 244  | 236686   | 23.112 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.225  | 70   | 5069     | 4.136  | ng    | # 78     |
| 51) 2,6-Dinitrotoluene        | 14.695 | 165  | 10826    | 8.866  | ng    | # 16     |
| 52) Acenaphthene              | 14.759 | 154  | 11666    | 2.631  | ng    | 95       |
| 56) 4-Nitrophenol             | 15.088 | 139  | 2547     | 3.033  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.695 | 165  | 10826    | 6.278  | ng    | # 21     |
| 71) Phenanthrene              | 17.480 | 178  | 184881   | 18.420 | ng    | 97       |
| 72) Anthracene                | 17.574 | 178  | 47248    | 4.820  | ng    | 96       |
| 73) Carbazole                 | 17.838 | 167  | 25878    | 3.076  | ng    | 99       |
| 75) Fluoranthene              | 19.489 | 202  | 493526   | 37.456 | ng    | 96       |
| 78) Pyrene                    | 19.853 | 202  | 470215   | 37.746 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.698 | 228  | 356270   | 26.677 | ng    | 98       |
| 83) Chrysene                  | 21.763 | 228  | 287707   | 22.601 | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.702 | 276  | 194464   | 11.734 | ng    | # 95     |
| 88) Benzo(b)fluoranthene      | 23.943 | 252  | 473172   | 35.437 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.943 | 252  | 473172   | 35.792 | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.824 | 252  | 306810   | 27.234 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 29.190 | 278  | 40127    | 2.928  | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 29.865 | 276  | 183851   | 13.594 | ng    | 93       |
| -----                         |        |      |          |        |       |          |

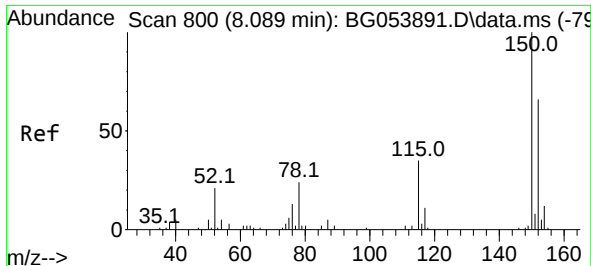
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062922\  
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QLast Update : Mon Jun 27 00:27:54 2022  
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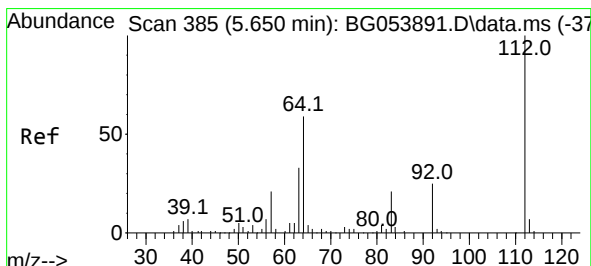
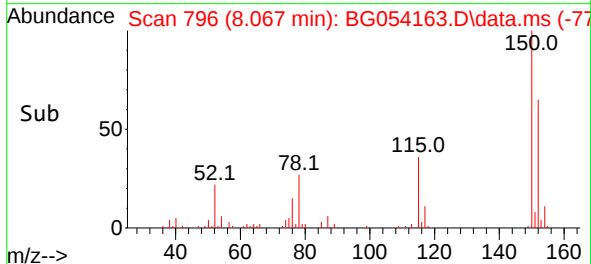
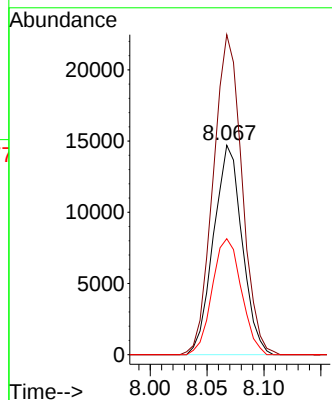
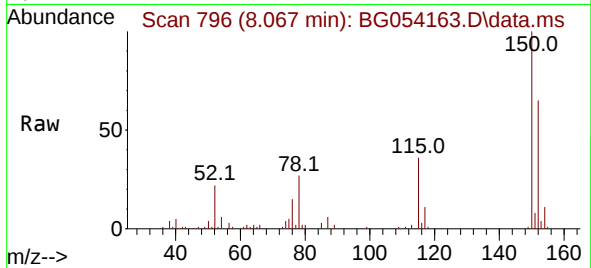




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.067 min Scan# 79  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

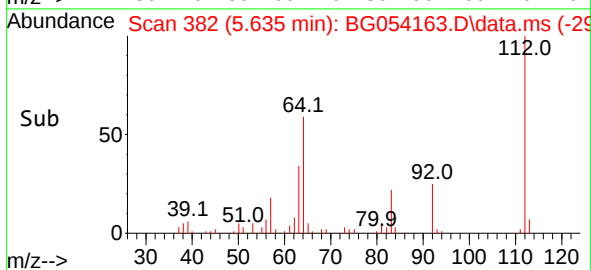
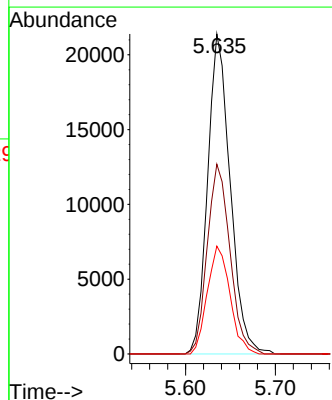
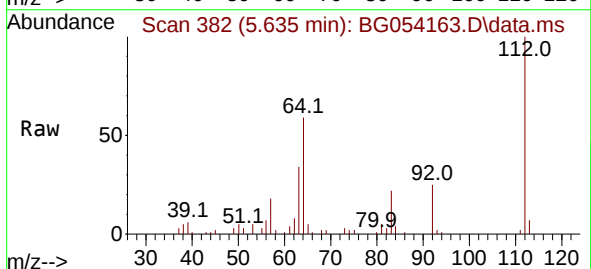
Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

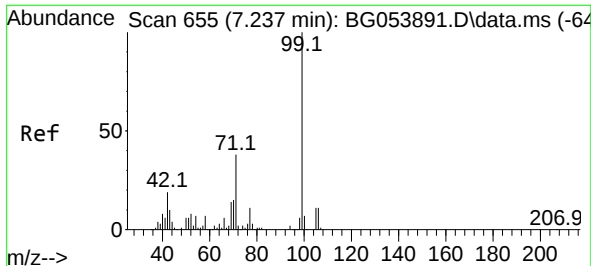
Tgt Ion:152 Resp: 25713  
Ion Ratio Lower Upper  
152 100  
150 152.8 131.6 197.4  
115 55.4 50.9 76.3



#5  
2-Fluorophenol  
Concen: 27.736 ng  
RT: 5.635 min Scan# 382  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Tgt Ion:112 Resp: 37302  
Ion Ratio Lower Upper  
112 100  
64 59.3 55.1 82.7  
63 33.7 30.4 45.6

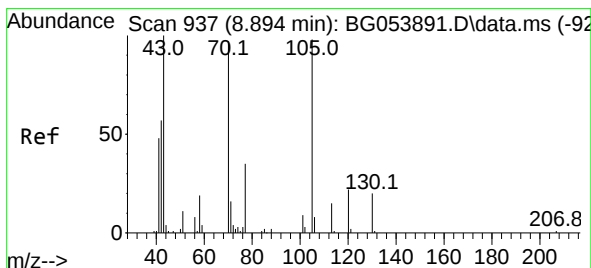
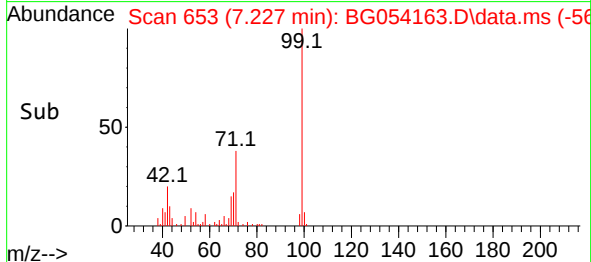
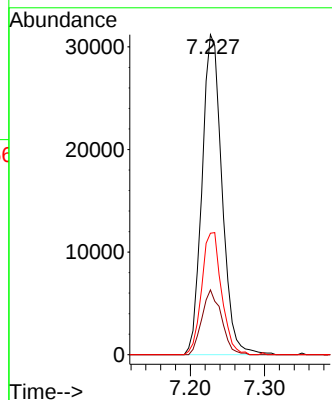
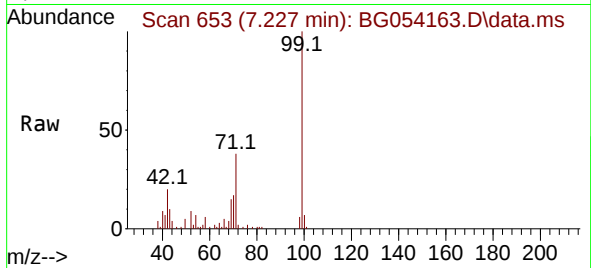




#7  
Phenol-d6  
Concen: 31.929 ng  
RT: 7.227 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

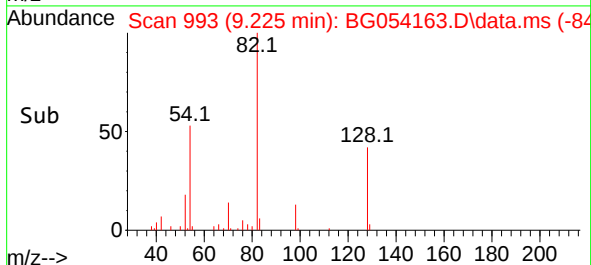
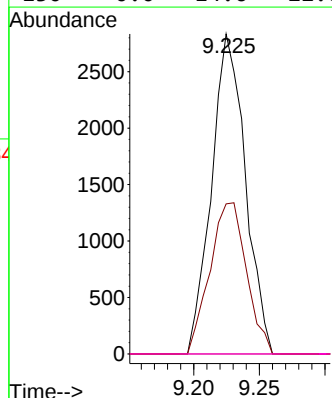
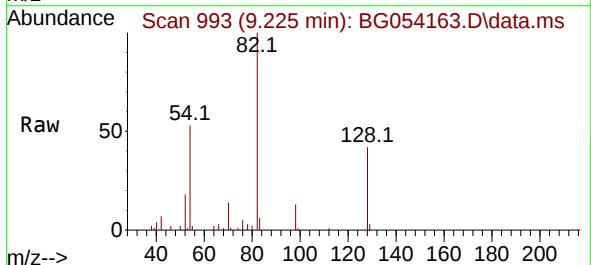
Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

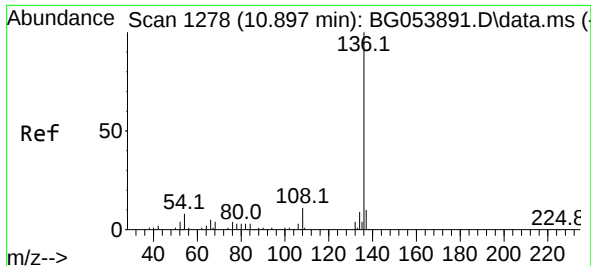
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 20.3  | 17.0  | 25.6  |
| 71      | 38.0  | 33.8  | 50.8  |



#19  
n-Nitroso-di-n-propylamine  
Concen: 4.136 ng  
RT: 9.225 min Scan# 993  
Delta R.T. 0.349 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 46.9  | 47.3  | 70.9# |
| 101     | 0.0   | 7.0   | 10.4# |
| 130     | 0.0   | 14.6  | 22.0# |

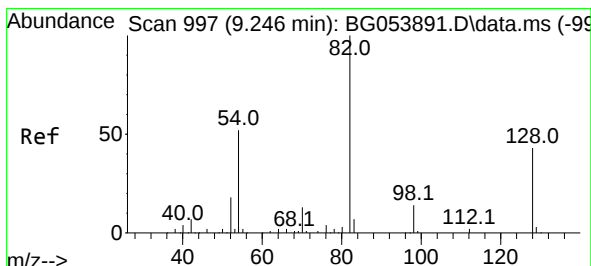
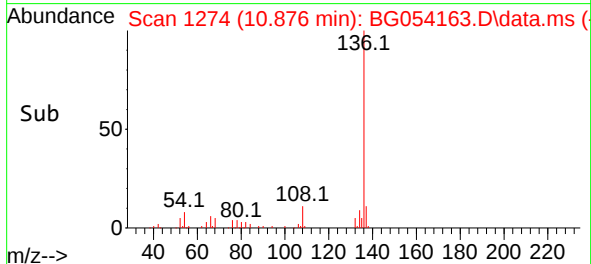
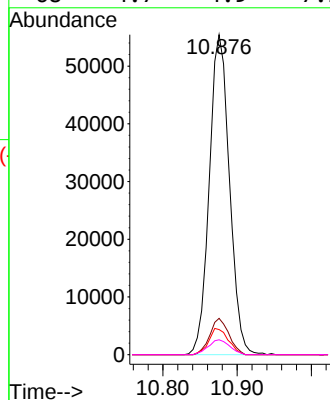
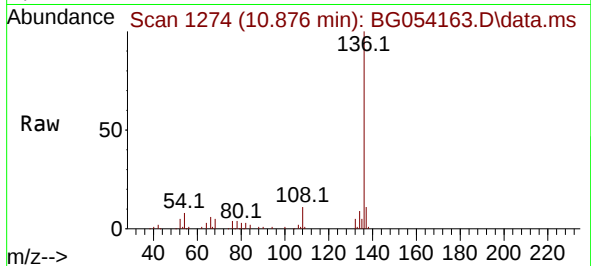




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.876 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

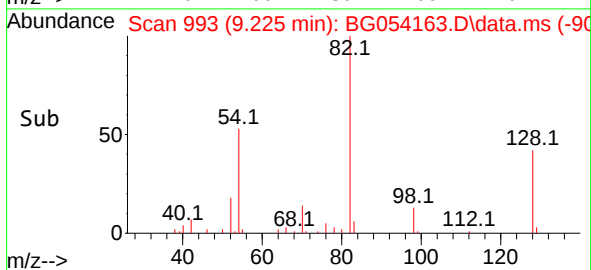
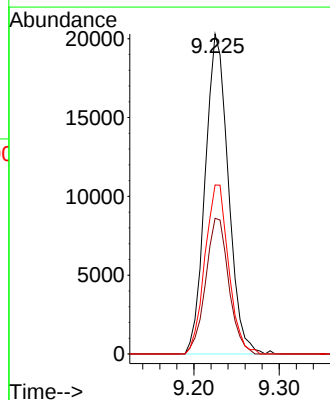
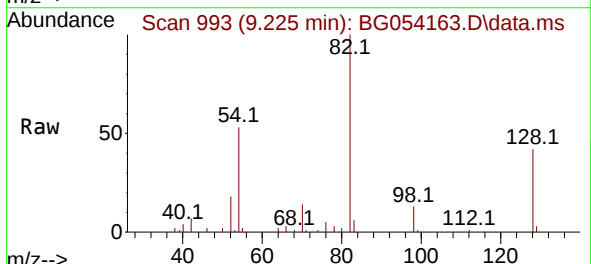
Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

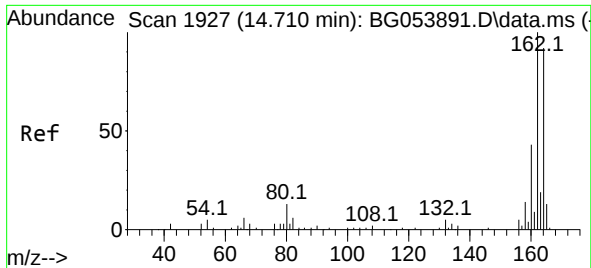
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 104737 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.3  | 8.5   | 12.7   |
| 54        | 7.8   | 7.4   | 11.2   |
| 68        | 4.7   | 4.9   | 7.3    |



#23  
Nitrobenzene-d5  
Concen: 20.467 ng  
RT: 9.225 min Scan# 993  
Delta R.T. -0.009 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 38146 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 42.4  | 27.9  | 41.9  |
| 54        | 52.8  | 41.2  | 61.8  |

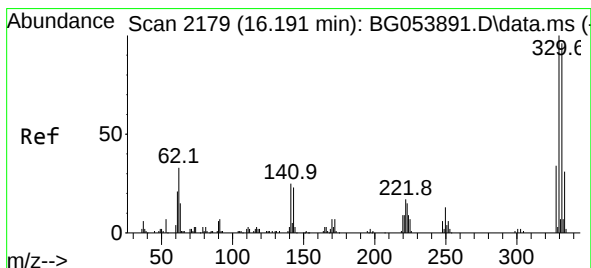
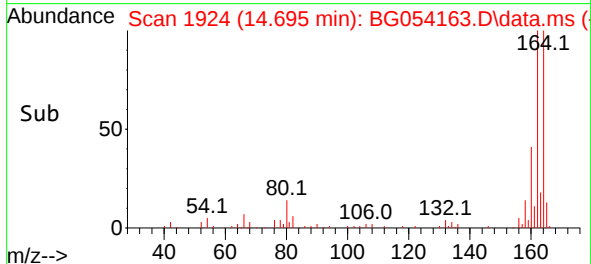
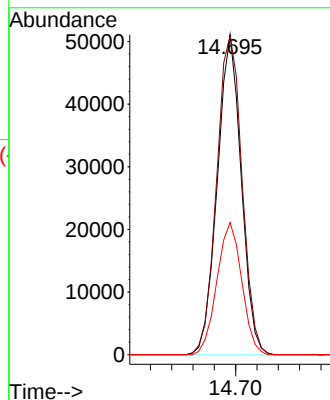
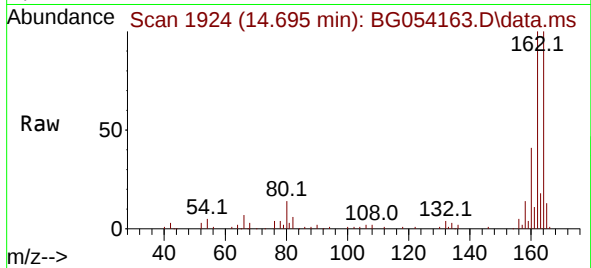




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.695 min Scan# 1924  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

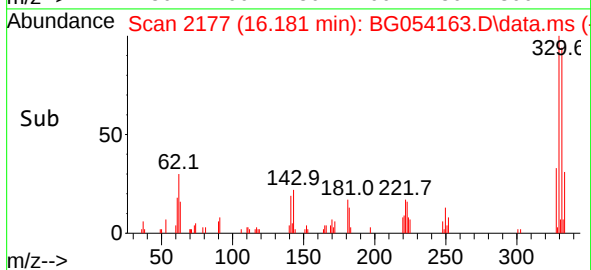
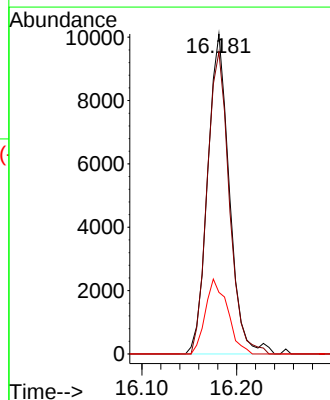
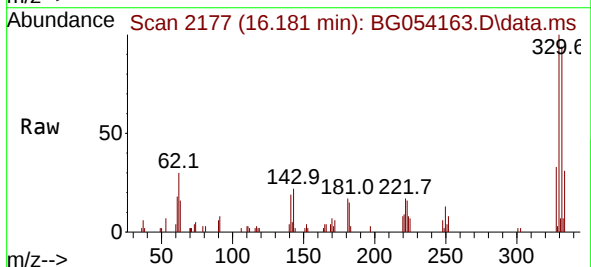
Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

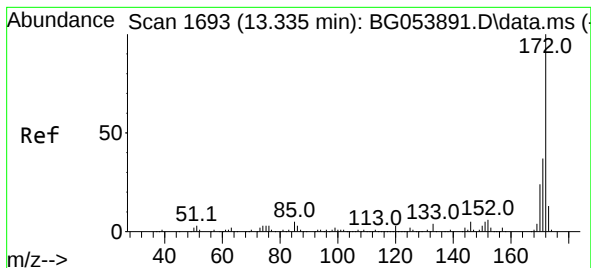
Tgt Ion:164 Resp: 79354  
Ion Ratio Lower Upper  
164 100  
162 99.7 82.3 123.5  
160 41.3 34.2 51.2



#42  
2,4,6-Tribromophenol  
Concen: 12.591 ng  
RT: 16.181 min Scan# 2177  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Tgt Ion:330 Resp: 16053  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.0 114.0  
141 24.0 27.1 40.7#





#45

2-Fluorobiphenyl

Concen: 21.303 ng

RT: 13.320 min Scan# 1

Delta R.T. -0.003 min

Lab File: BG054163.D

Acq: 30 Jun 2022 2:50

Instrument :

BNA\_G

ClientSampleId :

SB-11-0-2-20220623DL

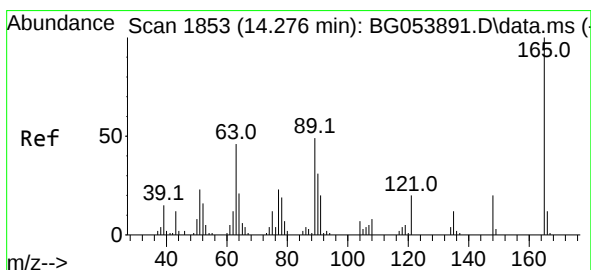
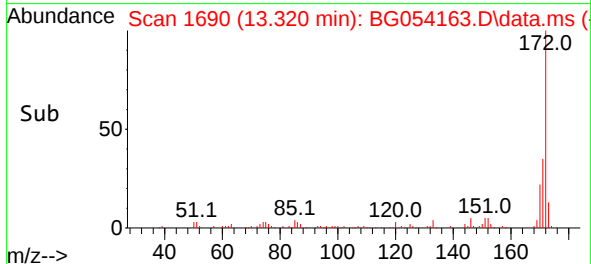
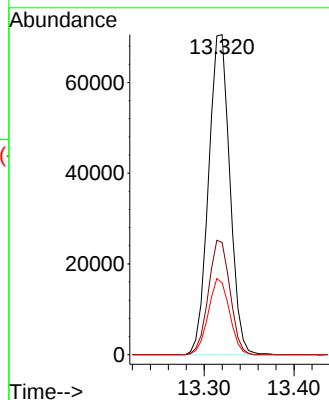
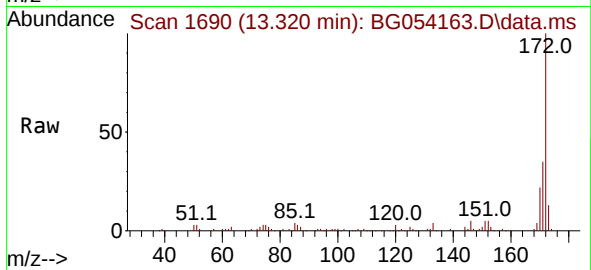
Tgt Ion:172 Resp: 116252

Ion Ratio Lower Upper

172 100

171 35.0 28.5 42.7

170 22.5 18.9 28.3



#51

2,6-Dinitrotoluene

Concen: 8.866 ng

RT: 14.695 min Scan# 1924

Delta R.T. 0.432 min

Lab File: BG054163.D

Acq: 30 Jun 2022 2:50

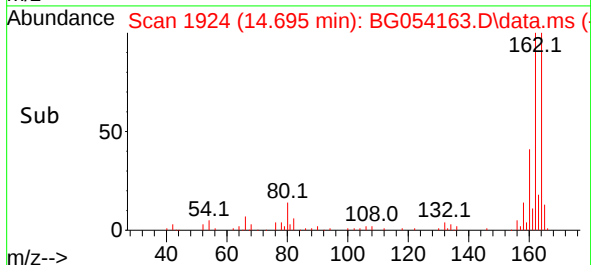
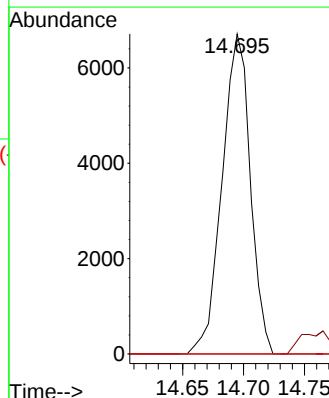
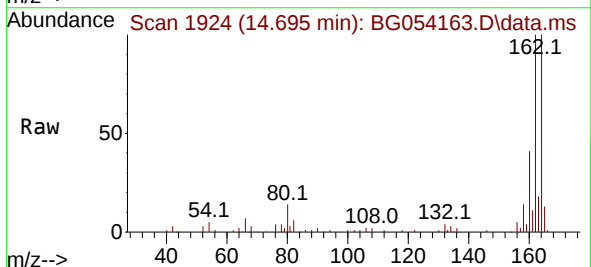
Tgt Ion:165 Resp: 10826

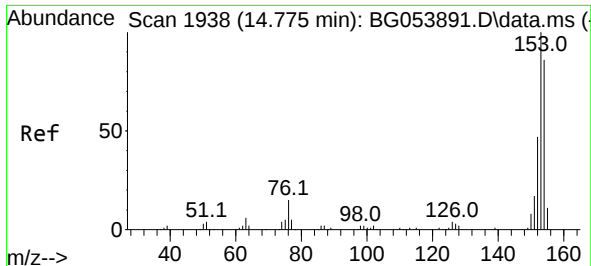
Ion Ratio Lower Upper

165 100

63 0.0 54.1 81.1#

89 0.0 54.8 82.2#

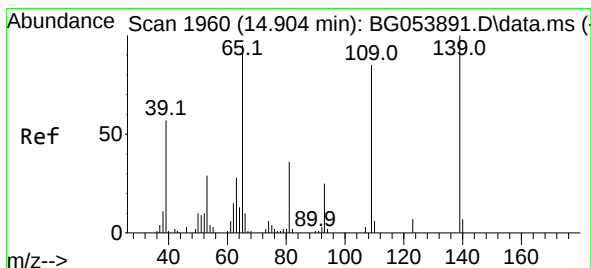
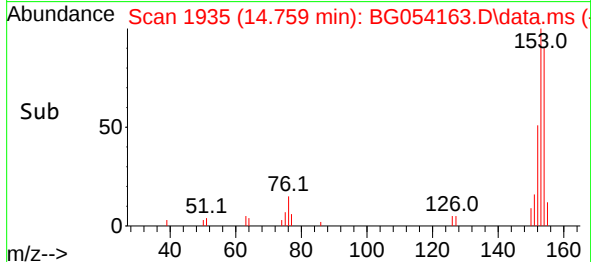
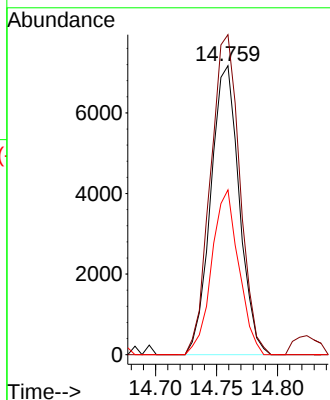
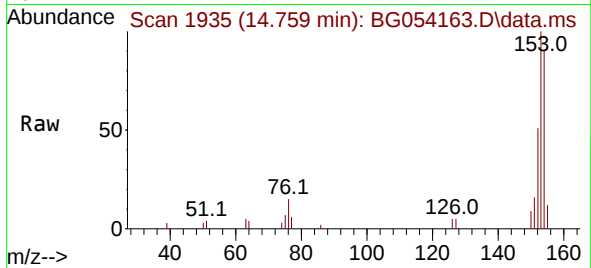




#52  
Acenaphthene  
Concen: 2.631 ng  
RT: 14.759 min Scan# 1935  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

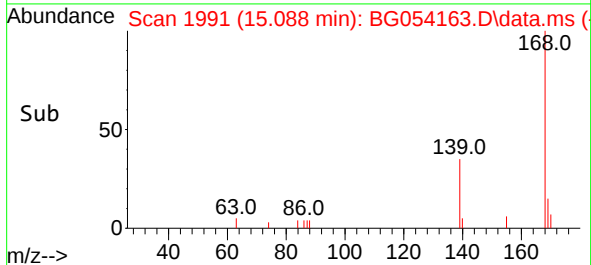
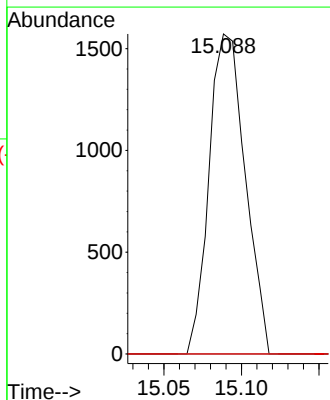
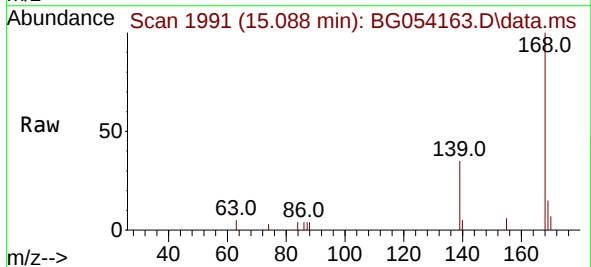
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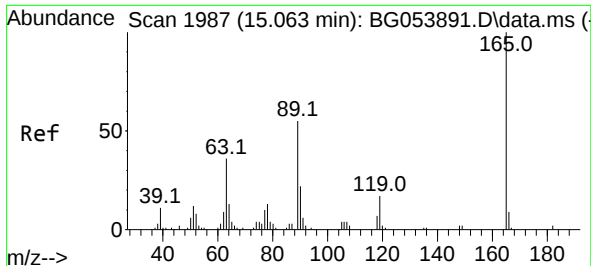
Tgt Ion:154 Resp: 11666  
Ion Ratio Lower Upper  
154 100  
153 110.8 92.7 139.1  
152 57.0 42.6 64.0



#56  
4-Nitrophenol  
Concen: 3.033 ng  
RT: 15.088 min Scan# 1991  
Delta R.T. 0.191 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Tgt Ion:139 Resp: 2547  
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: 6.278 ng

RT: 14.695 min Scan# 1987

Delta R.T. -0.356 min

Lab File: BG054163.D

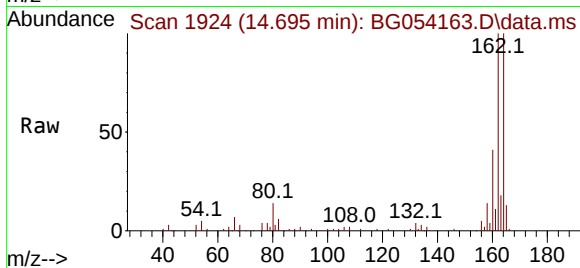
Acq: 30 Jun 2022 2:50

Instrument :

BNA\_G

ClientSampleId :

SB-11-0-2-20220623DL



Tgt Ion:165 Resp: 10826

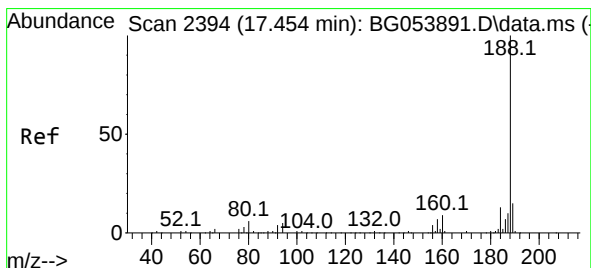
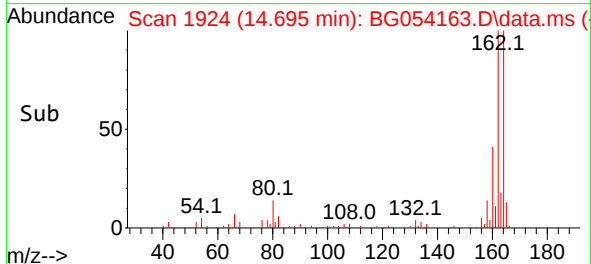
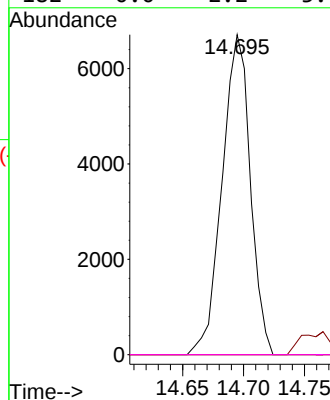
Ion Ratio Lower Upper

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: 17.439 min Scan# 2391

Delta R.T. -0.003 min

Lab File: BG054163.D

Acq: 30 Jun 2022 2:50

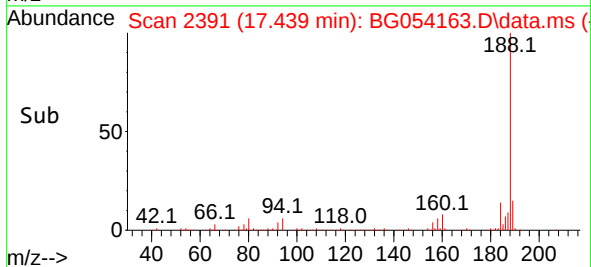
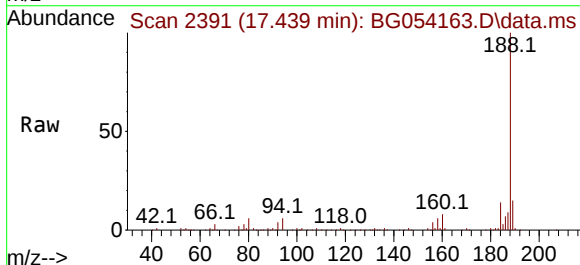
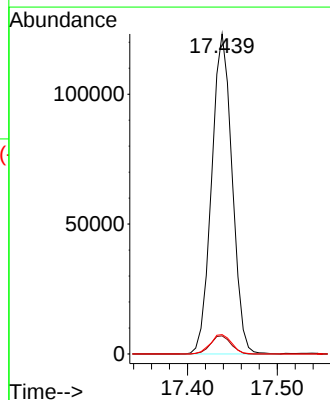
Tgt Ion:188 Resp: 195362

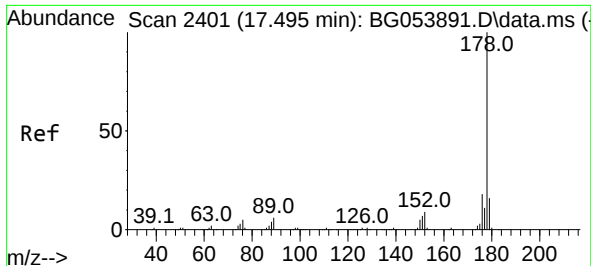
Ion Ratio Lower Upper

188 100

94 5.7 5.4 8.0

80 6.1 6.8 10.2#

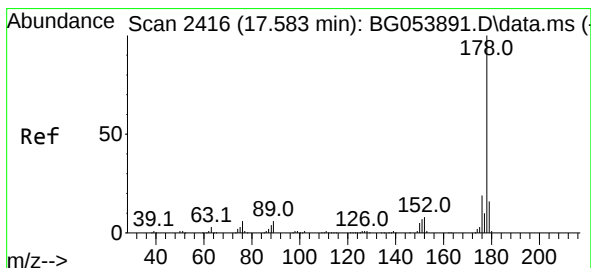
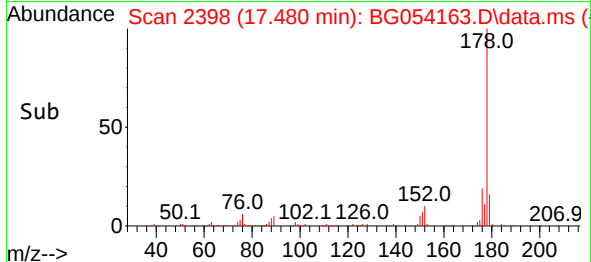
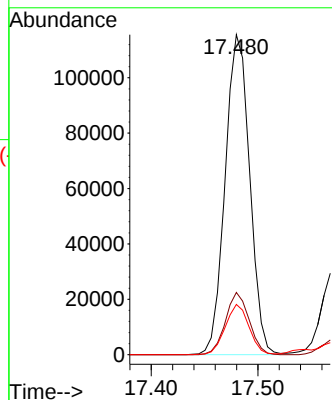
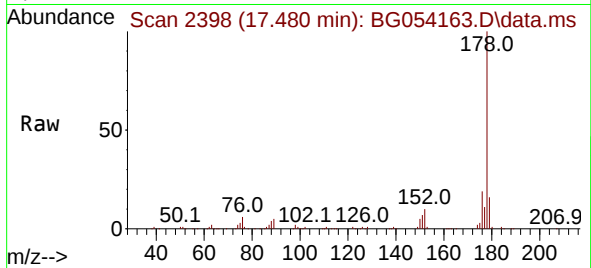




#71  
Phenanthrene  
Concen: 18.420 ng  
RT: 17.480 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

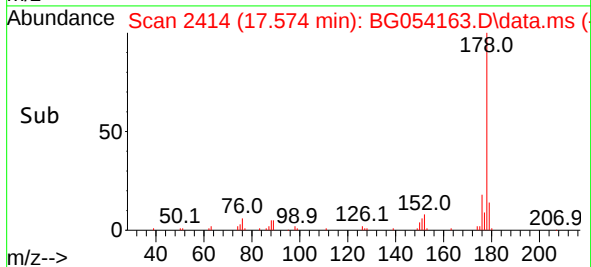
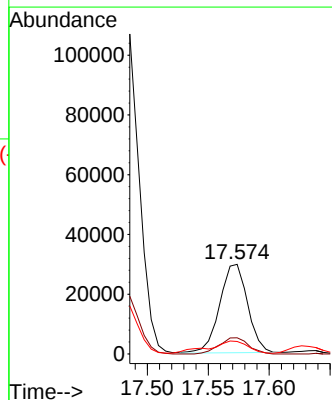
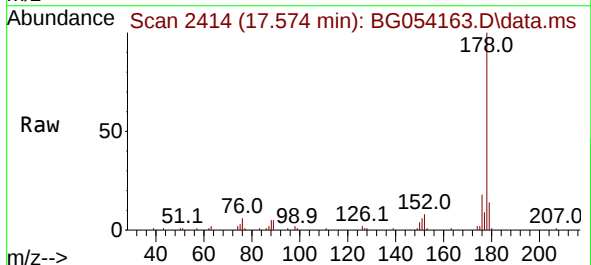
Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

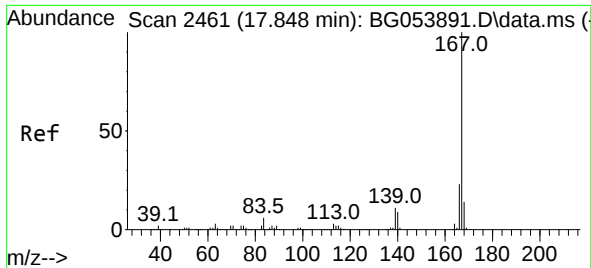
Tgt Ion:178 Resp: 184881  
Ion Ratio Lower Upper  
178 100  
176 19.4 14.1 21.1  
179 15.7 12.1 18.1



#72  
Anthracene  
Concen: 4.820 ng  
RT: 17.574 min Scan# 2414  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Tgt Ion:178 Resp: 47248  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.2 22.8  
179 14.0 13.0 19.4

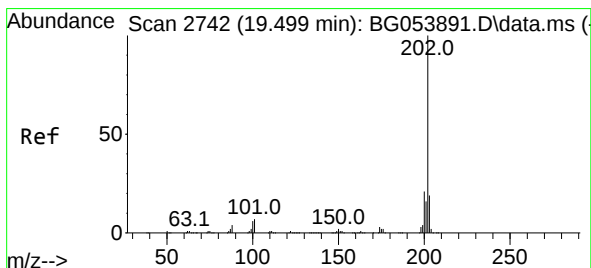
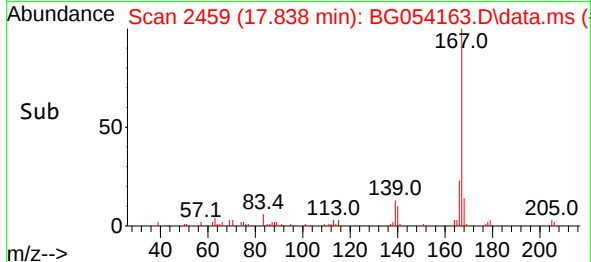
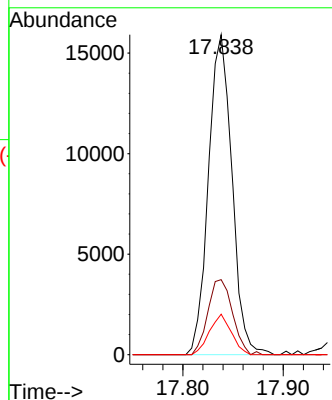
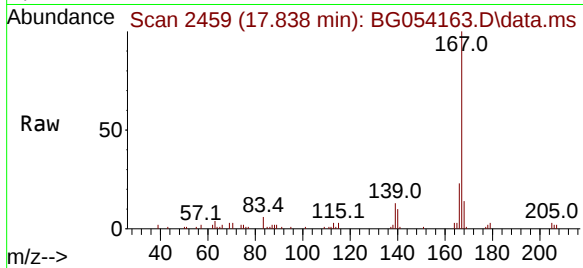




#73  
 Carbazole  
 Concen: 3.076 ng  
 RT: 17.838 min Scan# 2461  
 Delta R.T. -0.003 min  
 Lab File: BG054163.D  
 Acq: 30 Jun 2022 2:50

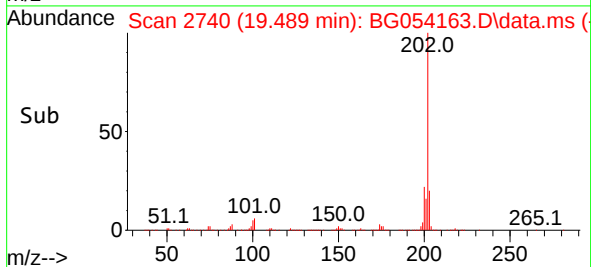
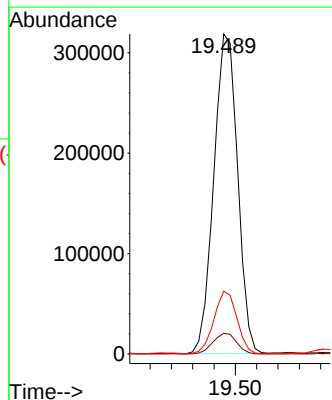
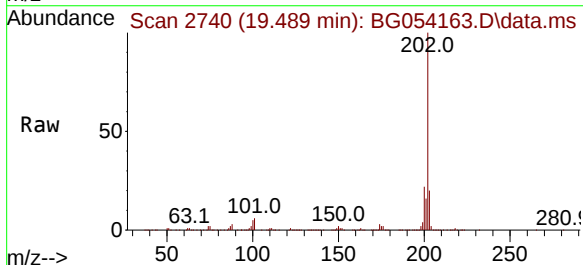
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-11-0-2-20220623DL

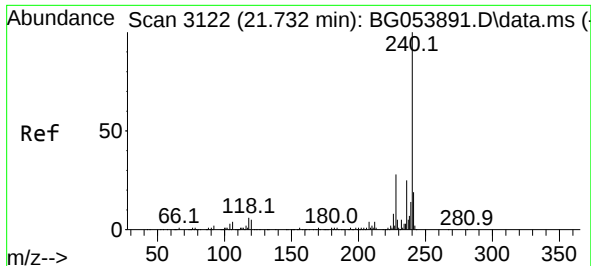
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 25878     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 23.4  | 18.2 27.2 |
| 139         | 12.6  | 10.1 15.1 |



#75  
 Fluoranthene  
 Concen: 37.456 ng  
 RT: 19.489 min Scan# 2740  
 Delta R.T. -0.003 min  
 Lab File: BG054163.D  
 Acq: 30 Jun 2022 2:50

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 493526   |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 6.5   | 0.0 26.9 |
| 203         | 19.6  | 0.0 37.2 |

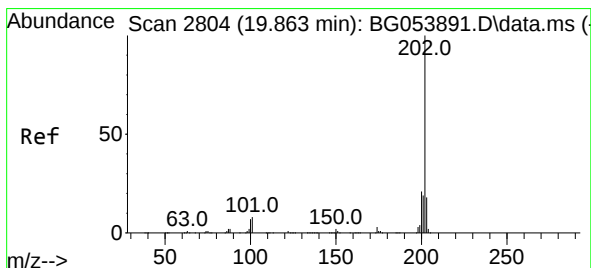
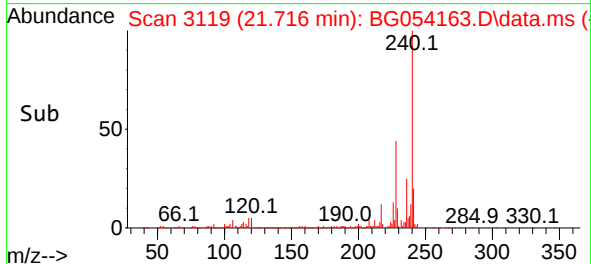
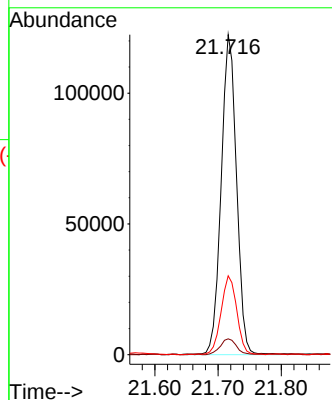
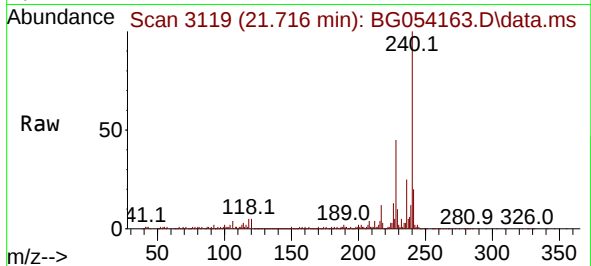




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.716 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

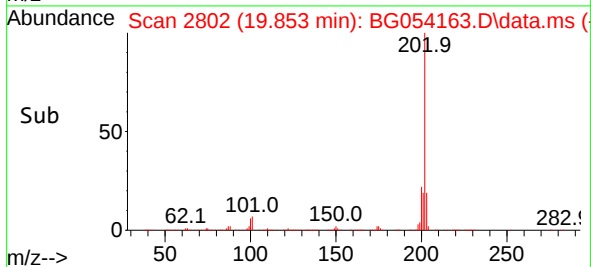
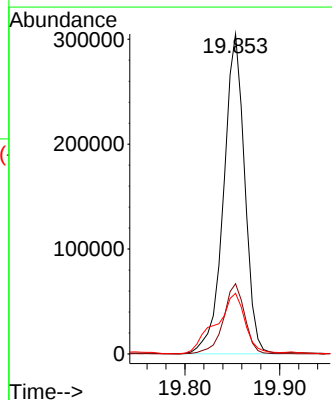
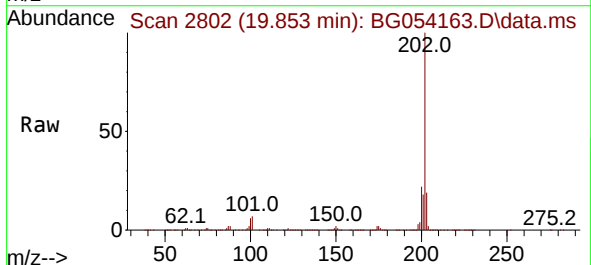
Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

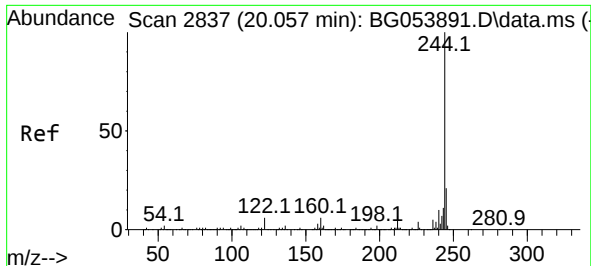
Tgt Ion:240 Resp: 206258  
Ion Ratio Lower Upper  
240 100  
120 5.0 4.6 7.0  
236 24.7 20.2 30.4



#78  
Pyrene  
Concen: 37.746 ng  
RT: 19.853 min Scan# 2802  
Delta R.T. 0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Tgt Ion:202 Resp: 470215  
Ion Ratio Lower Upper  
202 100  
200 21.9 16.6 24.8  
203 19.0 14.6 21.8

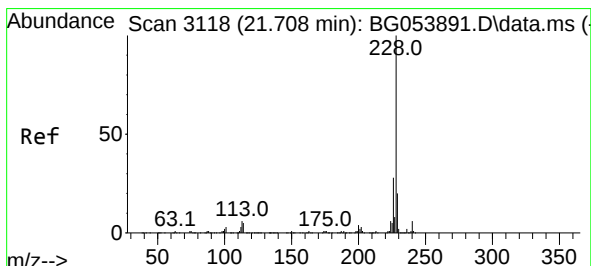
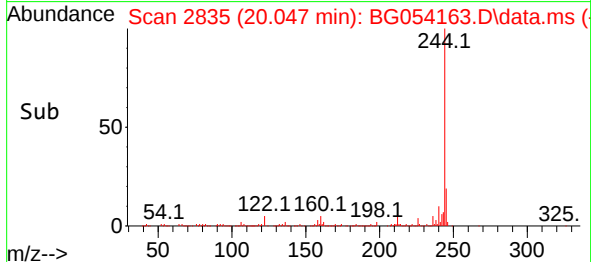
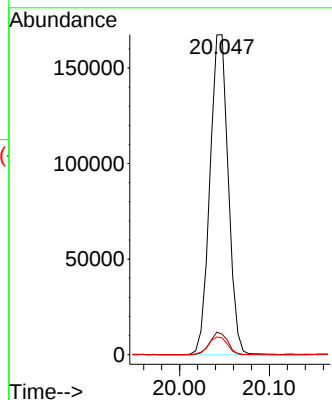
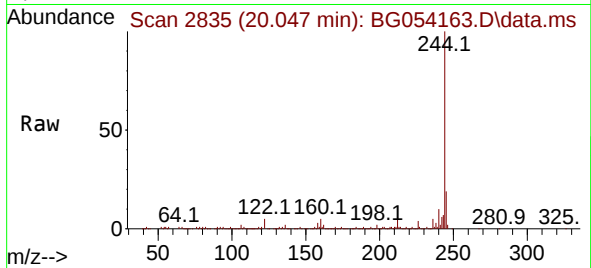




#79  
 Terphenyl-d14  
 Concen: 23.112 ng  
 RT: 20.047 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: BG054163.D  
 Acq: 30 Jun 2022 2:50

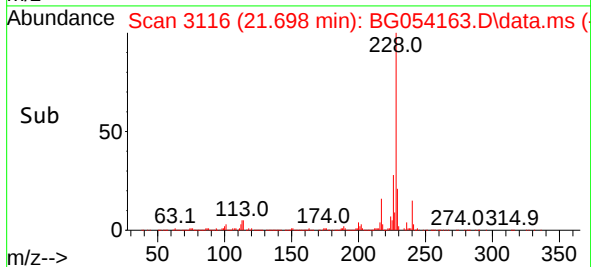
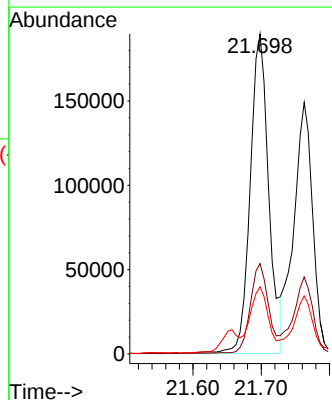
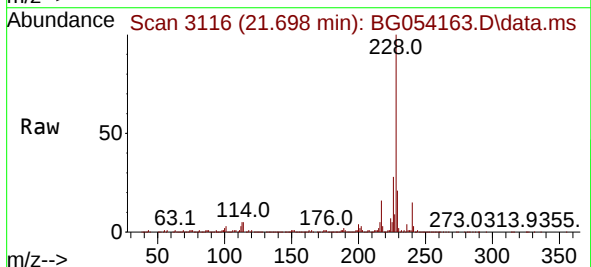
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-11-0-2-20220623DL

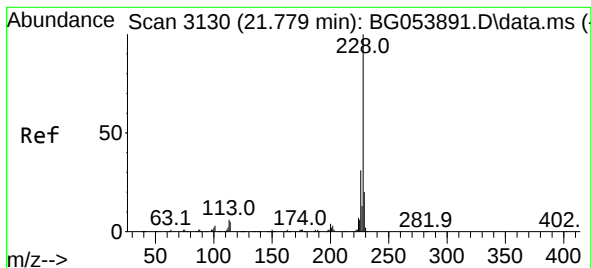
Tgt Ion:244 Resp: 236686  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 6.5 9.7#  
 122 5.3 5.0 7.4



#81  
 Benzo(a)anthracene  
 Concen: 26.677 ng  
 RT: 21.698 min Scan# 3116  
 Delta R.T. 0.003 min  
 Lab File: BG054163.D  
 Acq: 30 Jun 2022 2:50

Tgt Ion:228 Resp: 356270  
 Ion Ratio Lower Upper  
 228 100  
 226 28.3 21.6 32.4  
 229 21.0 16.2 24.2





#83

Chrysene

Concen: 22.601 ng

RT: 21.763 min Scan# 31

Delta R.T. 0.003 min

Lab File: BG054163.D

Acq: 30 Jun 2022 2:50

Instrument :

BNA\_G

ClientSampleId :

SB-11-0-2-20220623DL

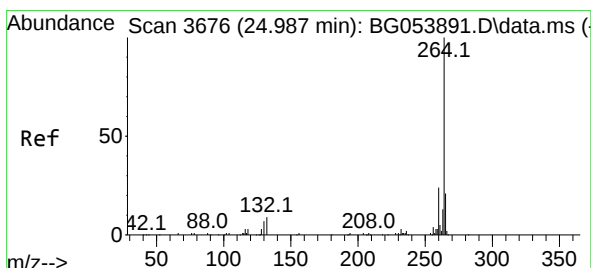
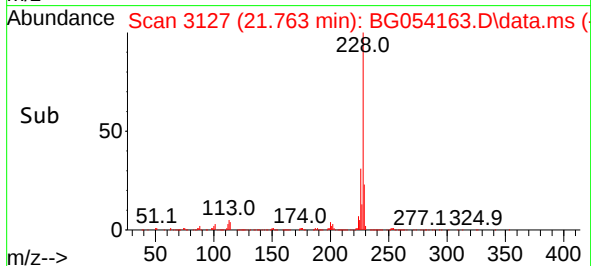
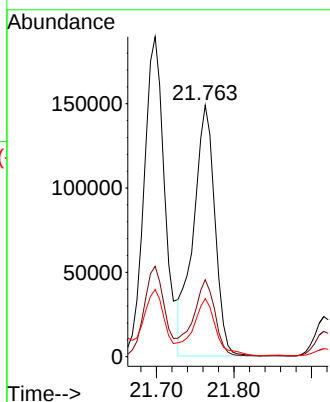
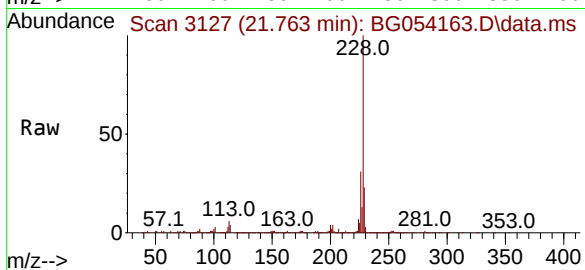
Tgt Ion:228 Resp: 287707

Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.2

229 23.1 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.977 min Scan# 3674

Delta R.T. 0.014 min

Lab File: BG054163.D

Acq: 30 Jun 2022 2:50

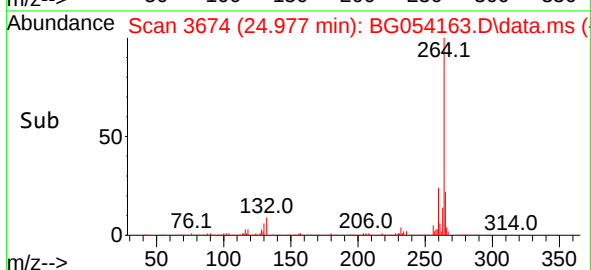
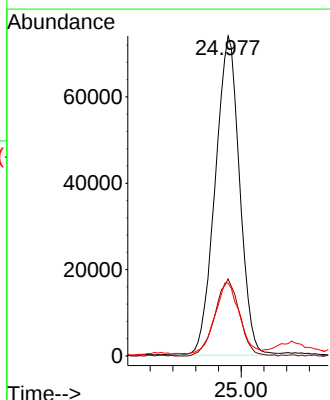
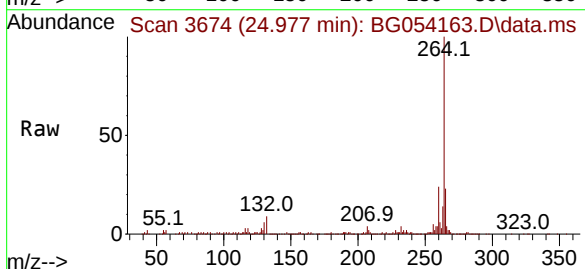
Tgt Ion:264 Resp: 219604

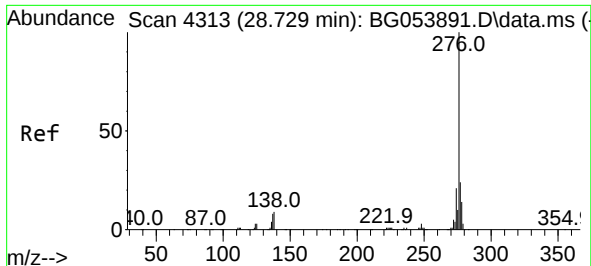
Ion Ratio Lower Upper

264 100

260 24.1 19.0 28.6

265 22.8 17.4 26.2

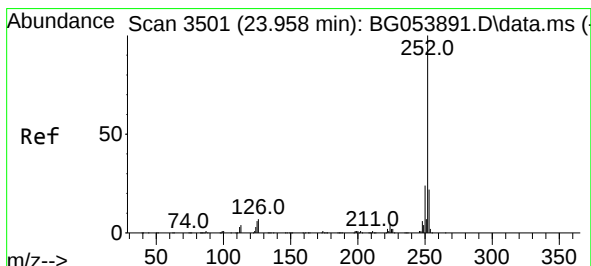
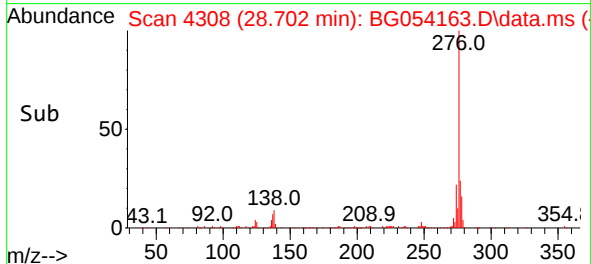
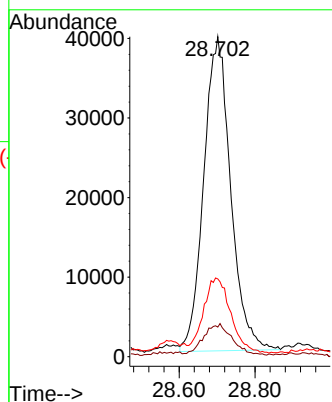
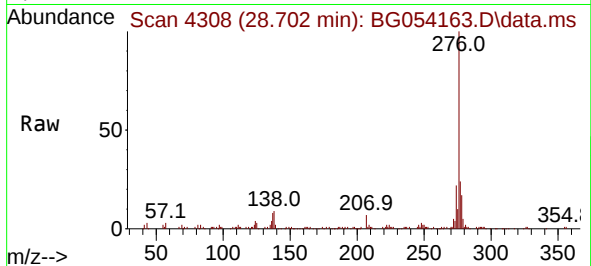




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 11.734 ng  
 RT: 28.702 min Scan# 41  
 Delta R.T. 0.014 min  
 Lab File: BG054163.D  
 Acq: 30 Jun 2022 2:50

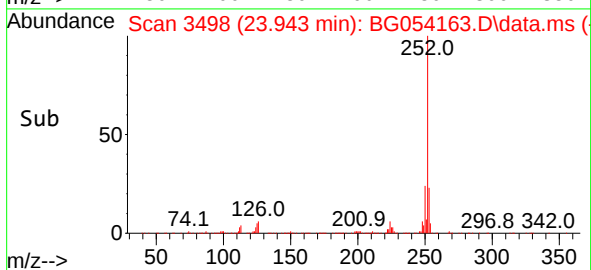
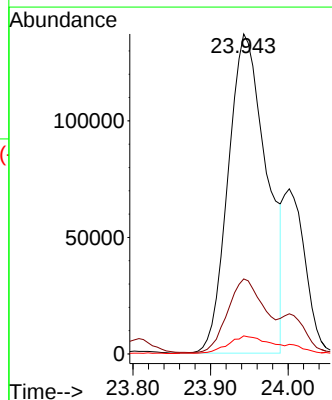
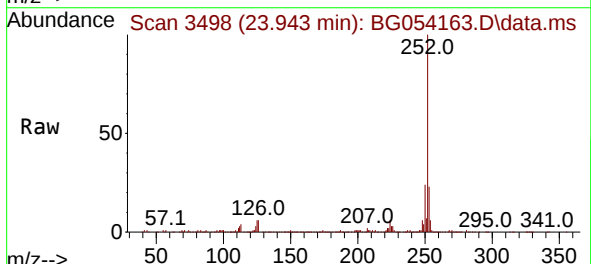
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-11-0-2-20220623DL

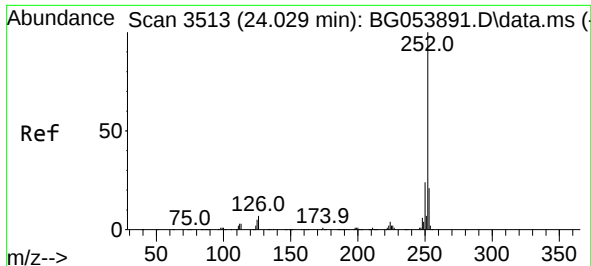
Tgt Ion:276 Resp: 194464  
 Ion Ratio Lower Upper  
 276 100  
 138 10.5 5.0 7.4#  
 277 24.1 20.3 30.5



#88  
 Benzo(b)fluoranthene  
 Concen: 35.437 ng  
 RT: 23.943 min Scan# 3498  
 Delta R.T. 0.009 min  
 Lab File: BG054163.D  
 Acq: 30 Jun 2022 2:50

Tgt Ion:252 Resp: 473172  
 Ion Ratio Lower Upper  
 252 100  
 253 23.5 18.0 27.0  
 125 5.6 4.6 6.8

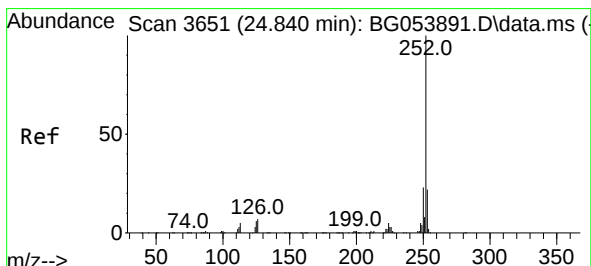
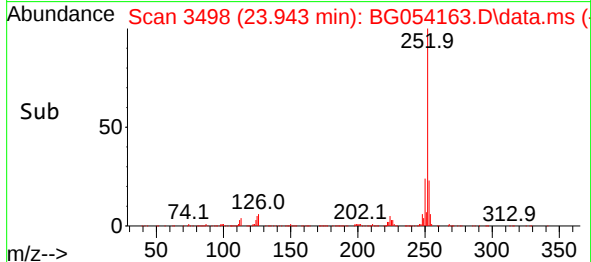
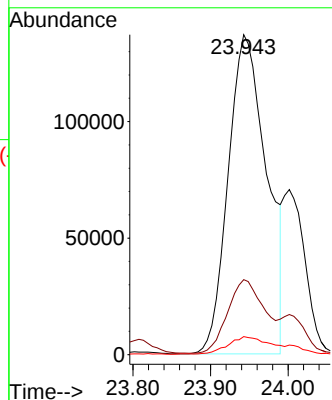
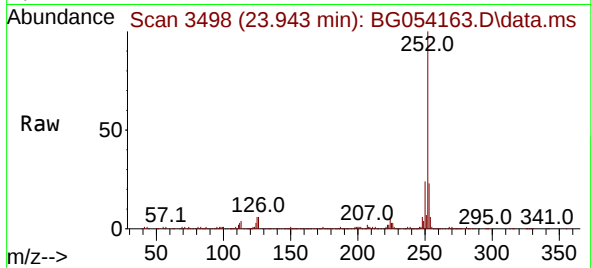




#89  
Benzo(k)fluoranthene  
Concen: 35.792 ng  
RT: 23.943 min Scan# 34  
Delta R.T. -0.062 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

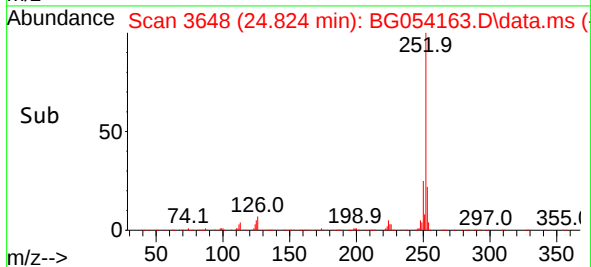
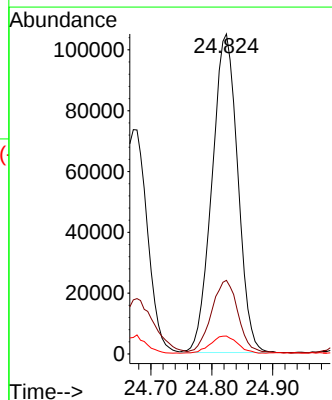
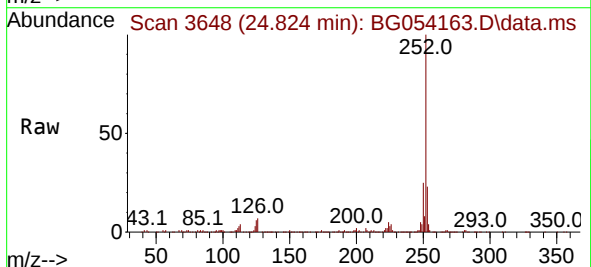
Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

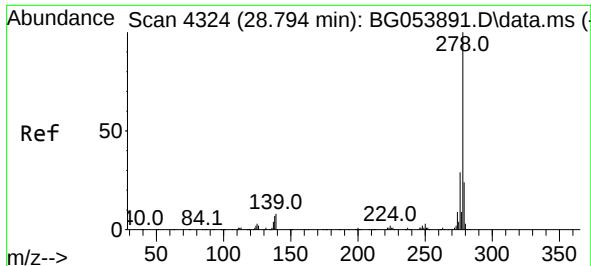
Tgt Ion:252 Resp: 473172  
Ion Ratio Lower Upper  
252 100  
253 23.5 18.4 27.6  
125 5.6 4.8 7.2



#90  
Benzo(a)pyrene  
Concen: 27.234 ng  
RT: 24.824 min Scan# 3648  
Delta R.T. 0.009 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Tgt Ion:252 Resp: 306810  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.8 26.8  
125 5.6 4.3 6.5

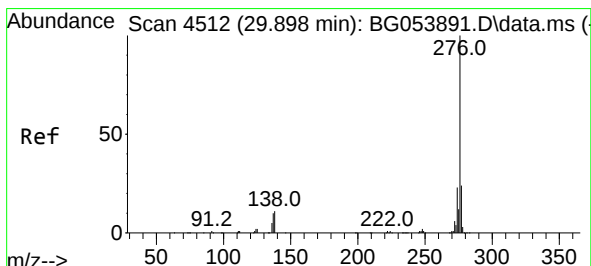
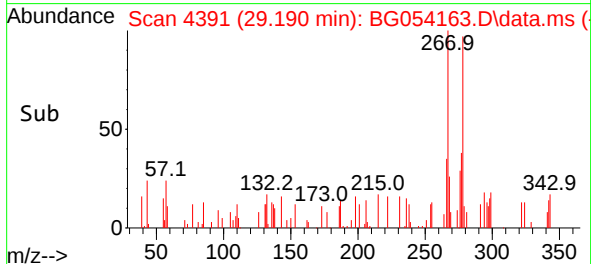
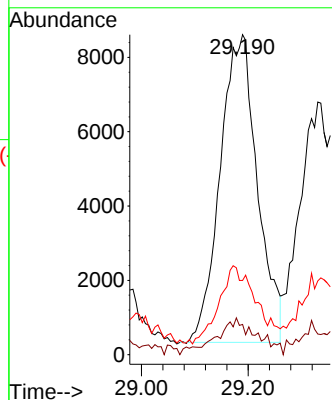
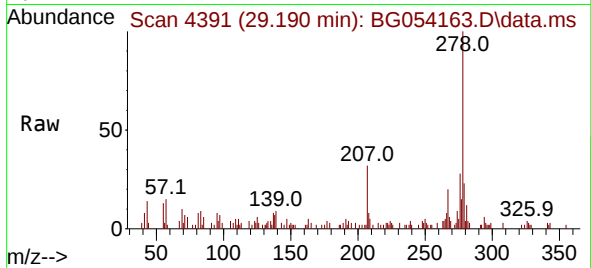




#91  
Dibenzo(a,h)anthracene  
Concen: 2.928 ng  
RT: 29.190 min Scan# 41  
Delta R.T. 0.443 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Instrument :  
BNA\_G  
ClientSampleId :  
SB-11-0-2-20220623DL

Tgt Ion:278 Resp: 40127  
Ion Ratio Lower Upper  
278 100  
139 9.5 7.2 10.8  
279 23.2 18.6 27.8



#92  
Benzo(g,h,i)perylene  
Concen: 13.594 ng  
RT: 29.865 min Scan# 4506  
Delta R.T. 0.003 min  
Lab File: BG054163.D  
Acq: 30 Jun 2022 2:50

Tgt Ion:276 Resp: 183851  
Ion Ratio Lower Upper  
276 100  
277 25.6 17.3 25.9  
138 10.3 9.6 14.4

