

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062822\  
 Data File : BG054129.D  
 Acq On : 28 Jun 2022 22:47  
 Operator : CG/JU  
 Sample : N3488-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-9-0-2-20220623

Quant Time: Jun 29 02:00:10 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

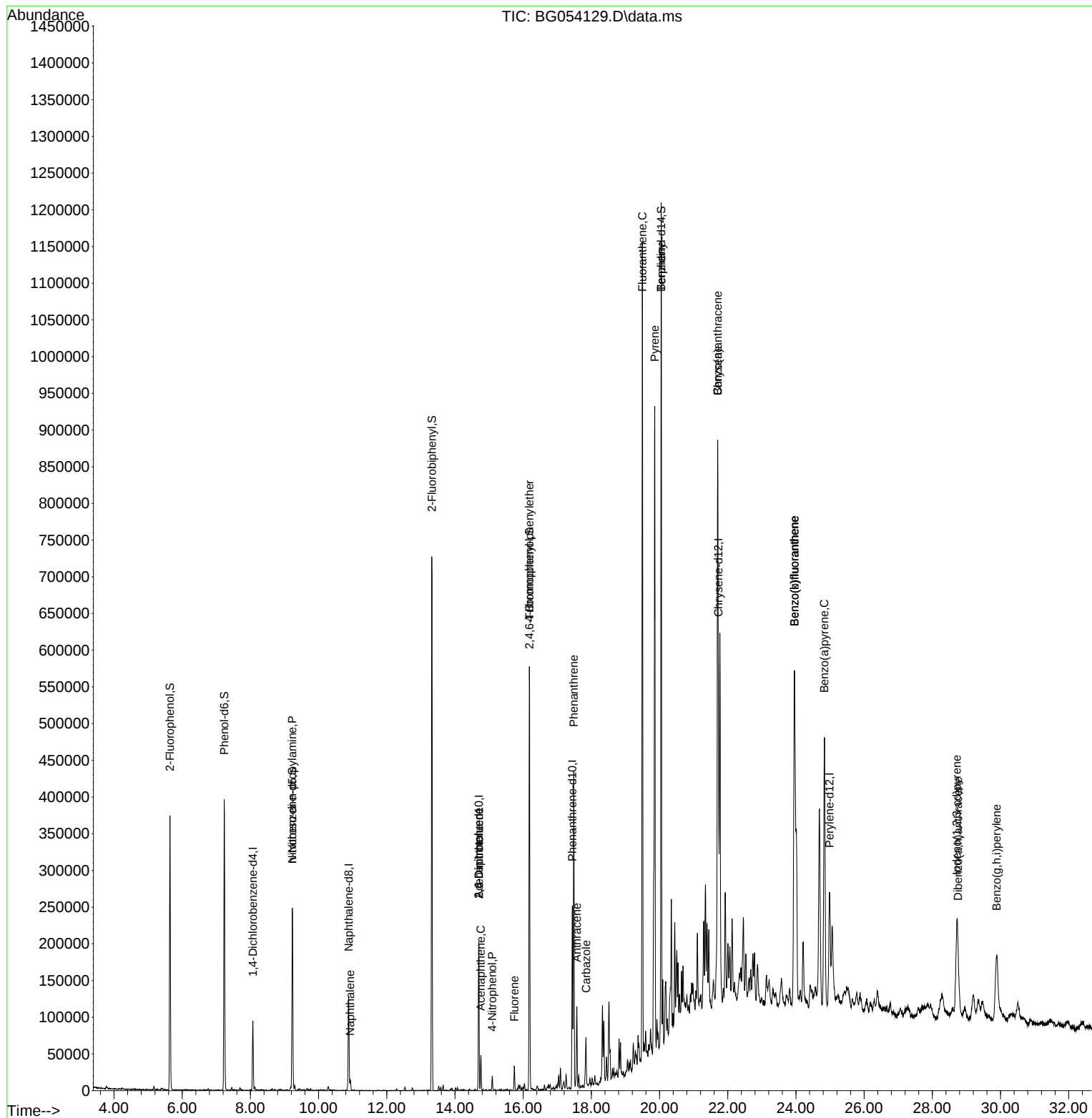
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.073  | 152  | 28226    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.882 | 136  | 116828   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.701 | 164  | 80143    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.444 | 188  | 177474   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.722 | 240  | 170807   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.983 | 264  | 180204   | 20.000  | ng    | 0.02     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.641  | 112  | 178636   | 121.001 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.233  | 99   | 240508   | 120.089 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.230  | 82   | 159412   | 76.680  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.187 | 330  | 135134   | 104.947 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.320 | 172  | 417772   | 75.802  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.047 | 244  | 646199   | 76.197  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.230  | 70   | 22077    | 16.408  | ng    | # 76     |
| 31) Naphthalene               | 10.929 | 128  | 13190    | 2.236   | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.701 | 165  | 10914    | 8.850   | ng    | # 17     |
| 52) Acenaphthene              | 14.759 | 154  | 19418    | 4.336   | ng    | 97       |
| 56) 4-Nitrophenol             | 15.094 | 139  | 4370     | 5.152   | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.701 | 165  | 10914    | 6.267   | ng    | # 22     |
| 58) Fluorene                  | 15.741 | 166  | 16554    | 2.794   | ng    | 90       |
| 67) 4-Bromophenyl-phenylether | 16.181 | 248  | 8554     | 3.859   | ng    | # 1      |
| 71) Phenanthrene              | 17.486 | 178  | 292955   | 32.129  | ng    | 98       |
| 72) Anthracene                | 17.574 | 178  | 78360    | 8.800   | ng    | 99       |
| 73) Carbazole                 | 17.844 | 167  | 46615    | 6.099   | ng    | 98       |
| 75) Fluoranthene              | 19.495 | 202  | 736058   | 61.494  | ng    | 96       |
| 77) Benzidine                 | 20.047 | 184  | 9298     | 2.629   | ng    | 96       |
| 78) Pyrene                    | 19.859 | 202  | 639969   | 62.035  | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.704 | 228  | 490169   | 44.321  | ng    | 97       |
| 83) Chrysene                  | 21.704 | 228  | 490169   | 46.497  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.719 | 276  | 254015   | 18.679  | ng    | # 96     |
| 88) Benzo(b)fluoranthene      | 23.954 | 252  | 646467   | 59.001  | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 23.954 | 252  | 646467   | 59.592  | ng    | 98       |
| 90) Benzo(a)pyrene            | 24.836 | 252  | 447619   | 48.419  | ng    | # 96     |
| 91) Dibenzo(a,h)anthracene    | 28.755 | 278  | 71340    | 6.344   | ng    | # 89     |
| 92) Benzo(g,h,i)perylene      | 29.889 | 276  | 252303   | 22.735  | ng    | 95       |
| -----                         |        |      |          |         |       |          |

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

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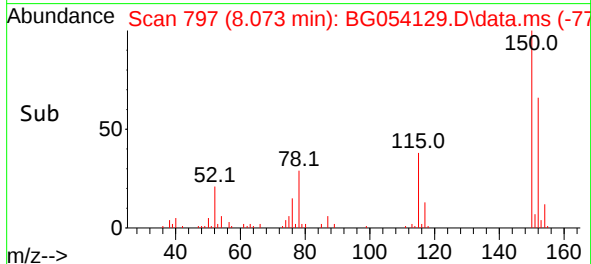
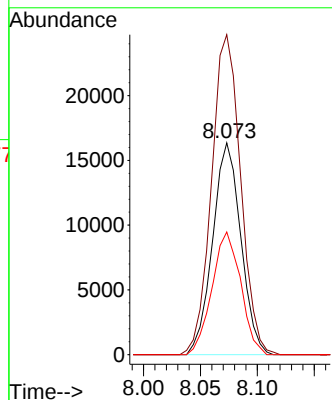
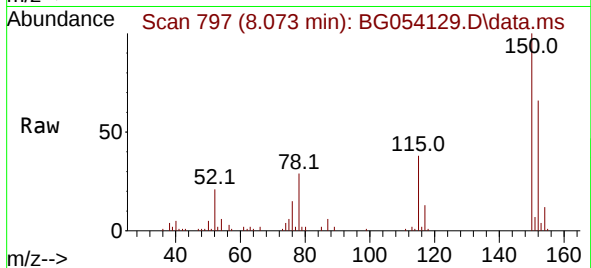




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.073 min Scan# 79  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

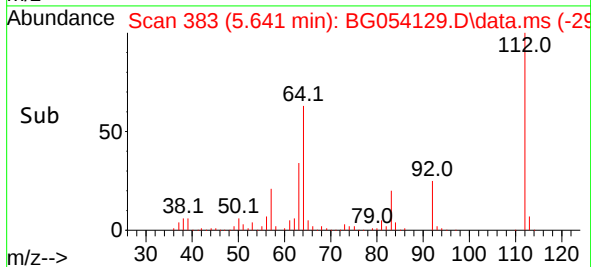
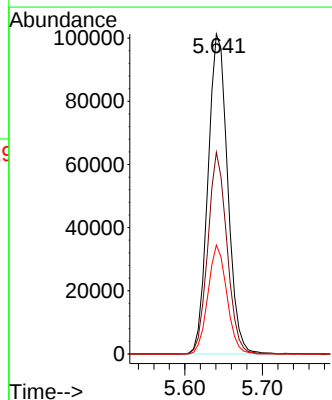
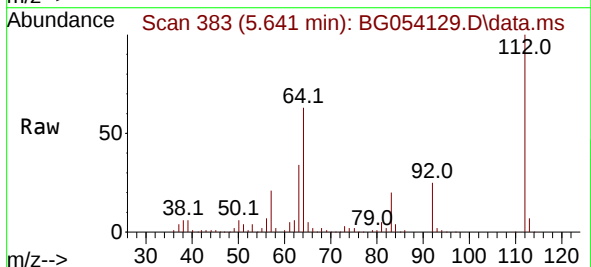
Instrument :  
BNA\_G  
ClientSampleId :  
SB-9-0-2-20220623

Tgt Ion:152 Resp: 28226  
Ion Ratio Lower Upper  
152 100  
150 151.0 131.6 197.4  
115 57.9 50.9 76.3



#5  
2-Fluorophenol  
Concen: 121.001 ng  
RT: 5.641 min Scan# 383  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:112 Resp: 178636  
Ion Ratio Lower Upper  
112 100  
64 63.0 55.1 82.7  
63 34.0 30.4 45.6

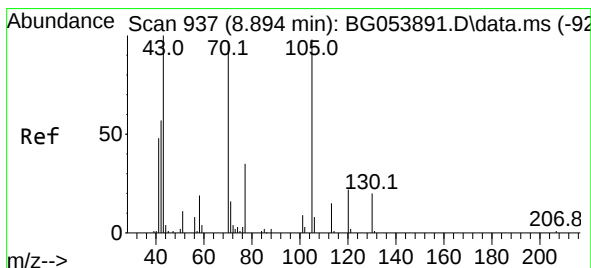
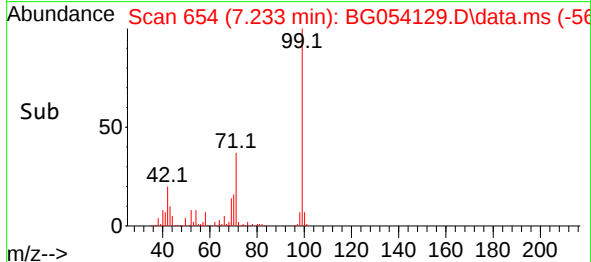
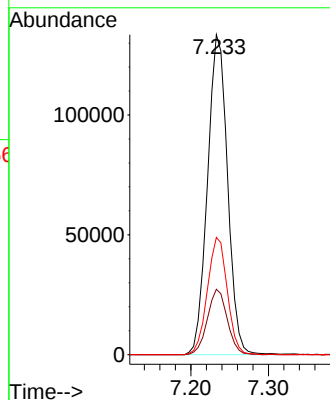
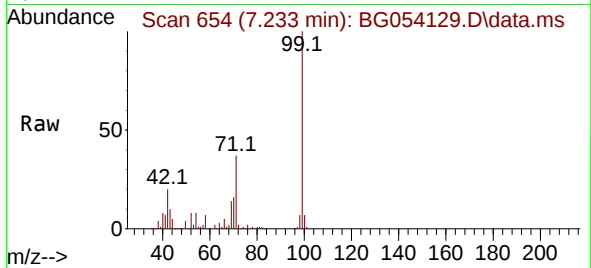




#7  
Phenol-d6  
Concen: 120.089 ng  
RT: 7.233 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

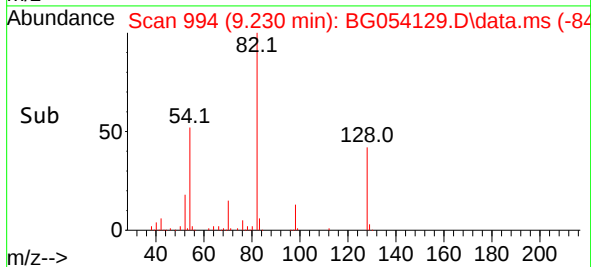
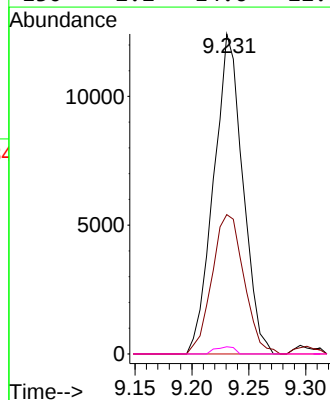
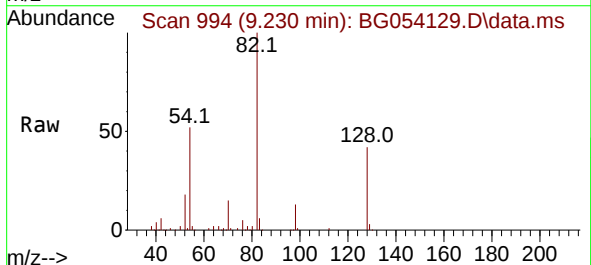
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ClientSampleId :  
SB-9-0-2-20220623

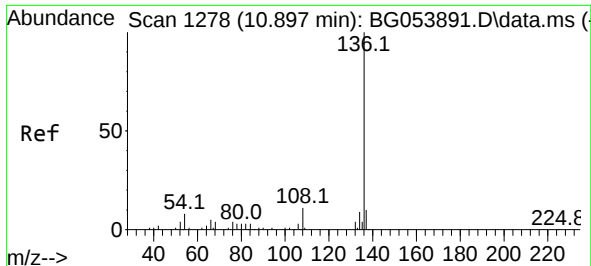
Tgt Ion: 99 Resp: 240508  
Ion Ratio Lower Upper  
99 100  
42 20.5 17.0 25.6  
71 36.6 33.8 50.8



#19  
n-Nitroso-di-n-propylamine  
Concen: 16.408 ng  
RT: 9.230 min Scan# 994  
Delta R.T. 0.355 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion: 70 Resp: 22077  
Ion Ratio Lower Upper  
70 100  
42 43.5 47.3 70.9#  
101 0.0 7.0 10.4#  
130 2.2 14.6 22.0#

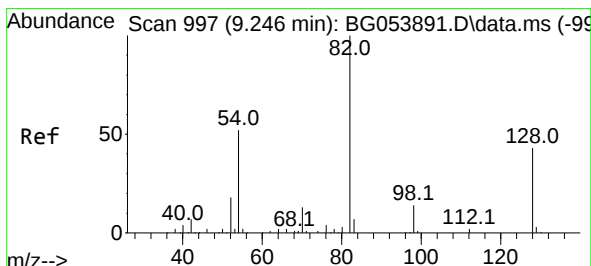
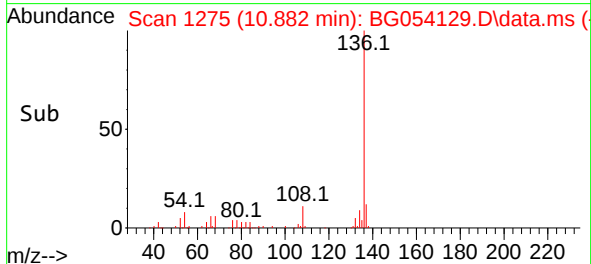
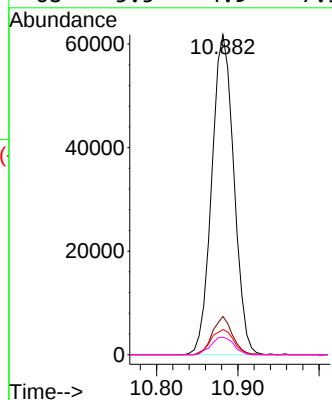
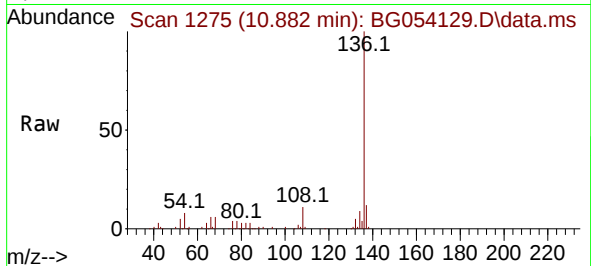




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.882 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

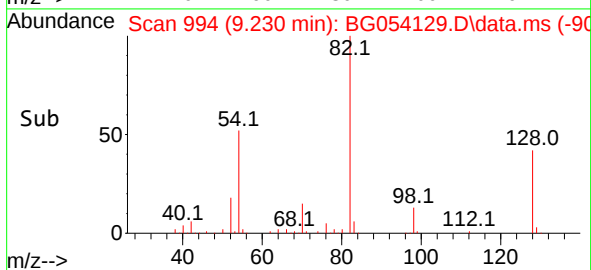
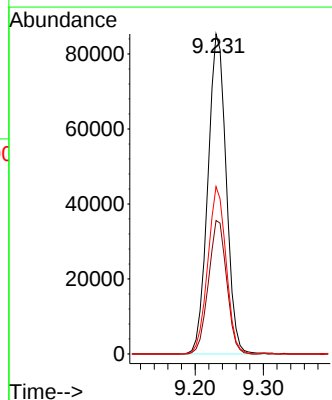
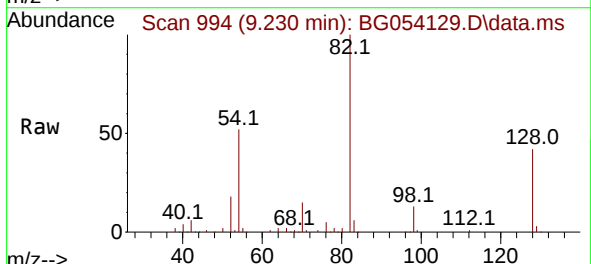
Instrument :  
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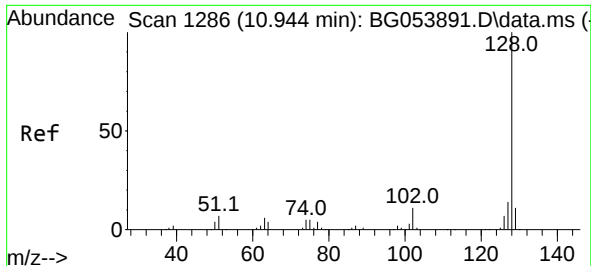
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 116828 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.9  | 8.5   | 12.7   |
| 54        | 7.8   | 7.4   | 11.2   |
| 68        | 5.5   | 4.9   | 7.3    |



#23  
Nitrobenzene-d5  
Concen: 76.680 ng  
RT: 9.230 min Scan# 994  
Delta R.T. -0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

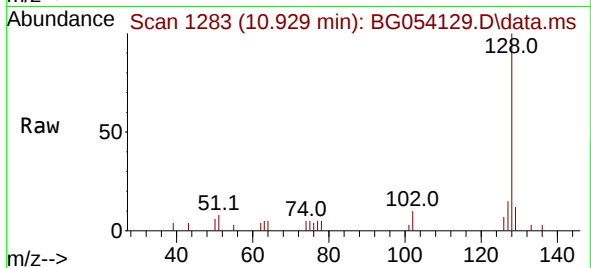
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 159412 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 41.7  | 27.9  | 41.9   |
| 54        | 52.3  | 41.2  | 61.8   |



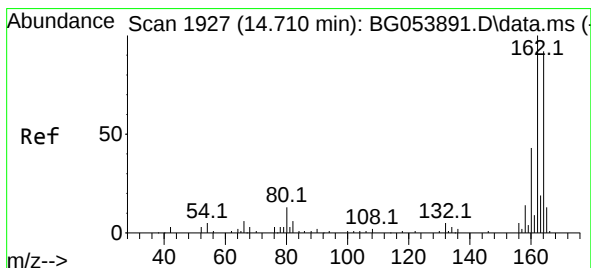
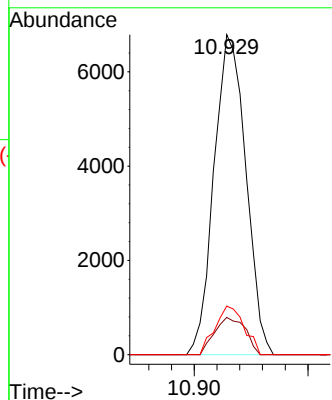
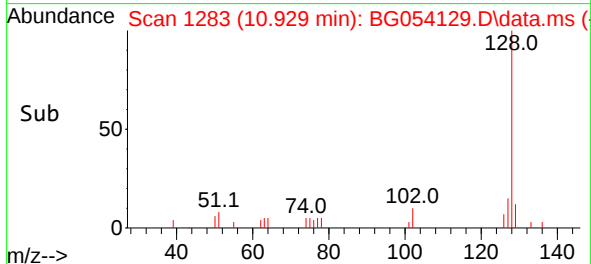


#31  
Naphthalene  
Concen: 2.236 ng  
RT: 10.929 min Scan# 1283  
Delta R.T. -0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

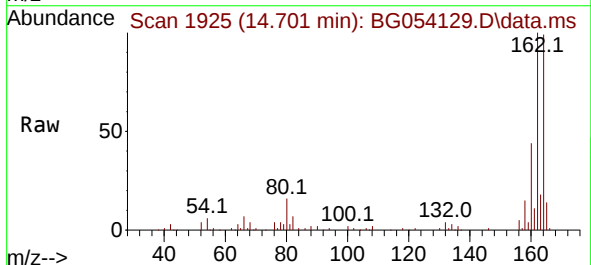
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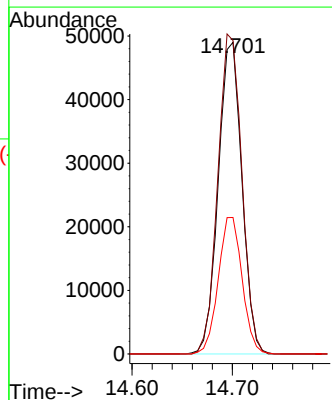
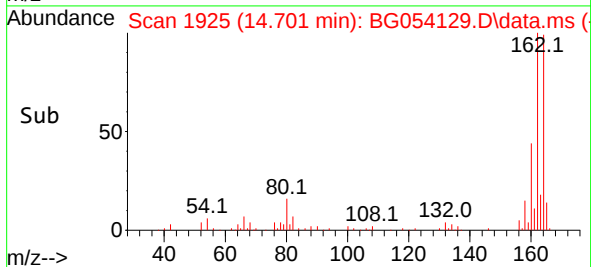
Tgt Ion:128 Resp: 13190  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.0 13.6  
127 15.2 11.1 16.7

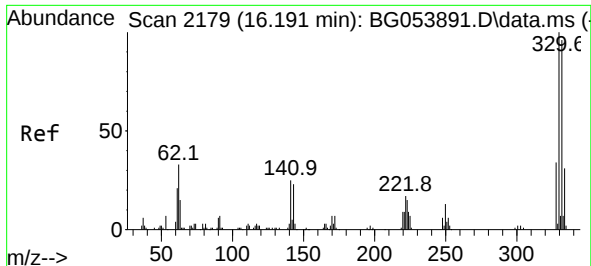


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.701 min Scan# 1925  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47



Tgt Ion:164 Resp: 80143  
Ion Ratio Lower Upper  
164 100  
162 100.5 82.3 123.5  
160 43.8 34.2 51.2

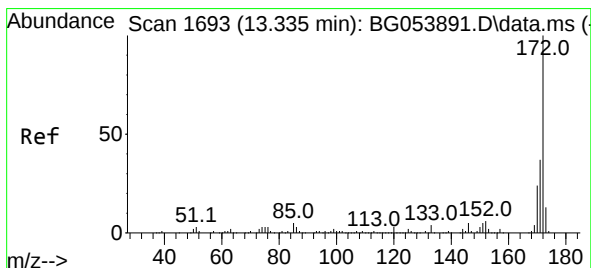
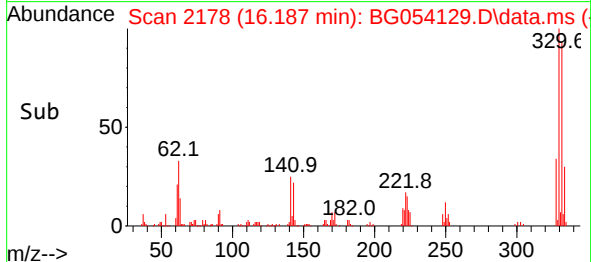
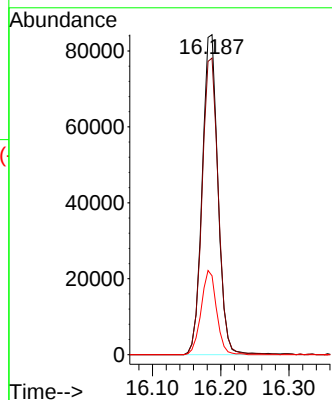
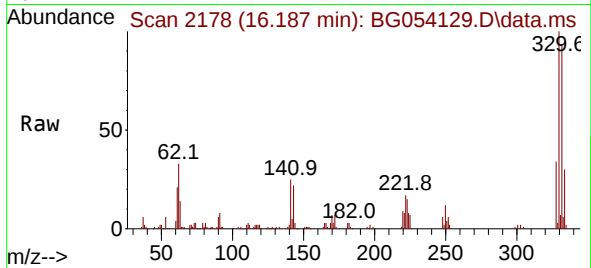




#42  
2,4,6-Tribromophenol  
Concen: 104.947 ng  
RT: 16.187 min Scan# 2179  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

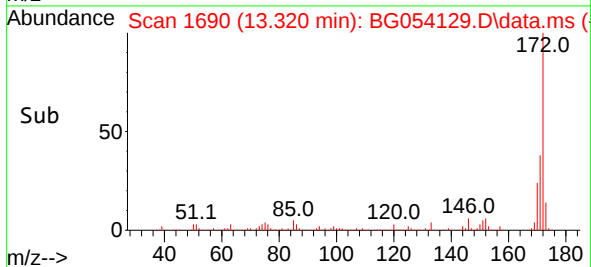
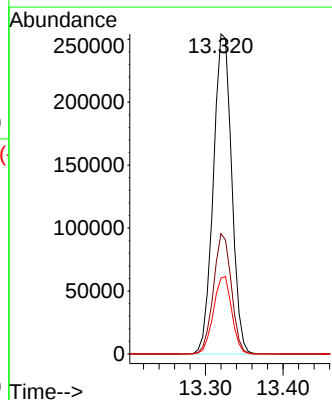
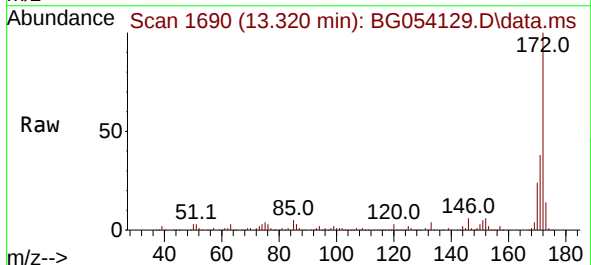
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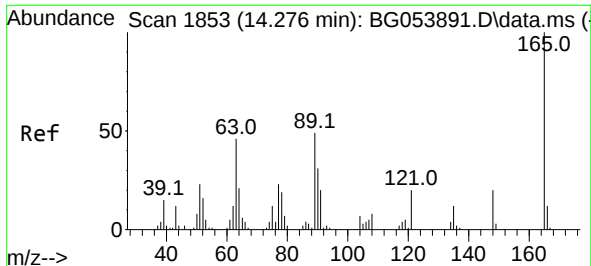
Tgt Ion:330 Resp: 135134  
Ion Ratio Lower Upper  
330 100  
332 95.5 76.0 114.0  
141 25.8 27.1 40.7#



#45  
2-Fluorobiphenyl  
Concen: 75.802 ng  
RT: 13.320 min Scan# 1690  
Delta R.T. -0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:172 Resp: 417772  
Ion Ratio Lower Upper  
172 100  
171 37.6 28.5 42.7  
170 23.7 18.9 28.3

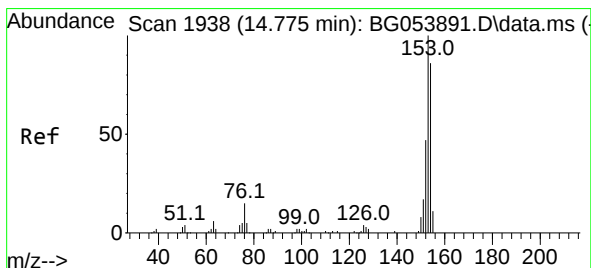
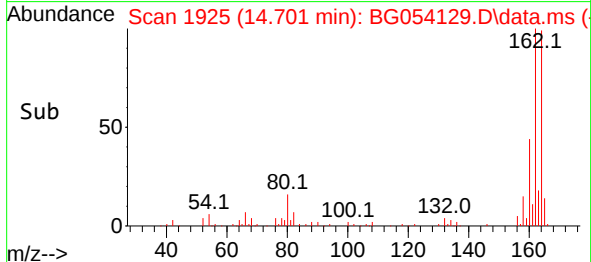
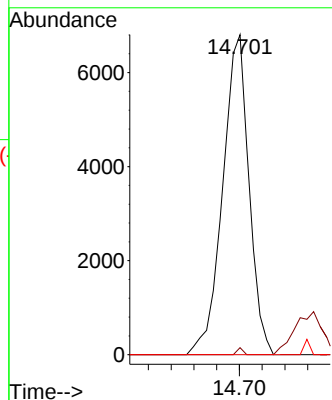
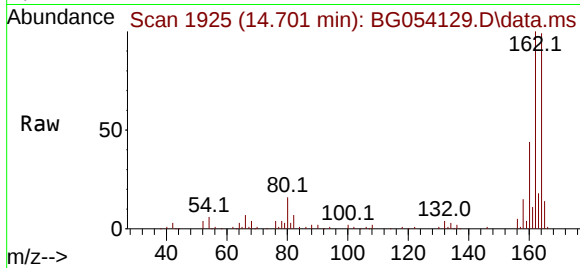




#51  
2,6-Dinitrotoluene  
Concen: 8.850 ng  
RT: 14.701 min Scan# 1925  
Delta R.T. 0.437 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

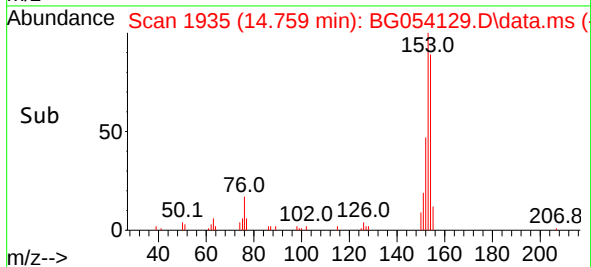
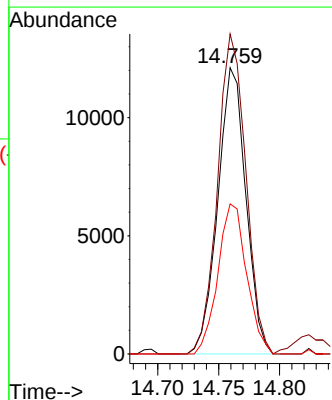
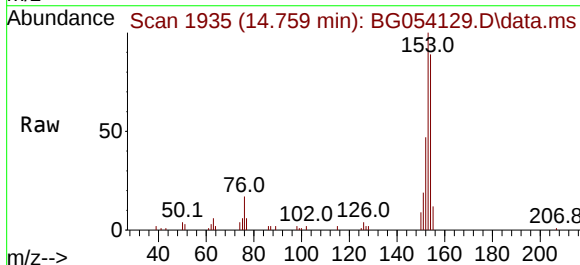
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SB-9-0-2-20220623

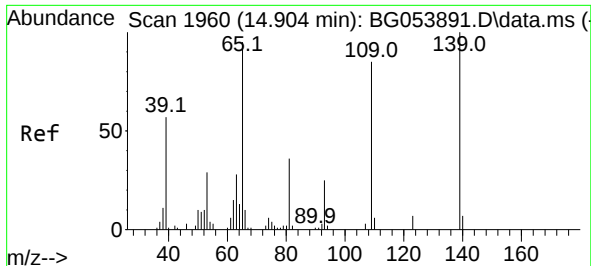
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Ion Ratio Lower Upper  
165 100  
63 2.2 54.1 81.1#  
89 0.0 54.8 82.2#



#52  
Acenaphthene  
Concen: 4.336 ng  
RT: 14.759 min Scan# 1935  
Delta R.T. -0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:154 Resp: 19418  
Ion Ratio Lower Upper  
154 100  
153 111.8 92.7 139.1  
152 52.5 42.6 64.0

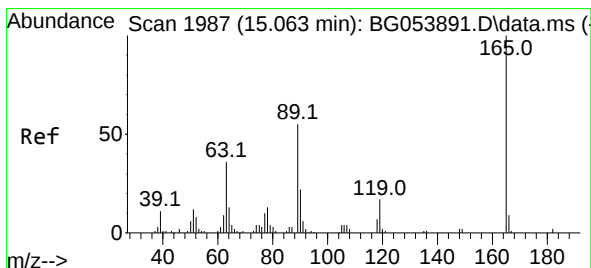
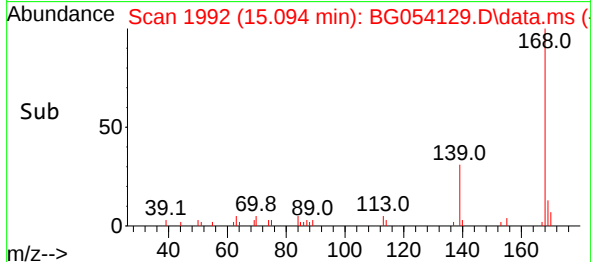
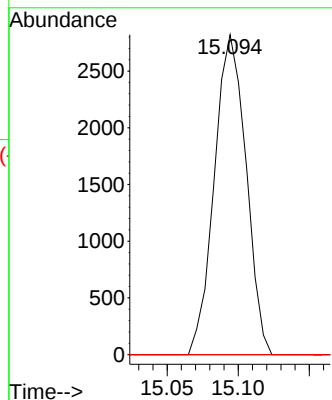
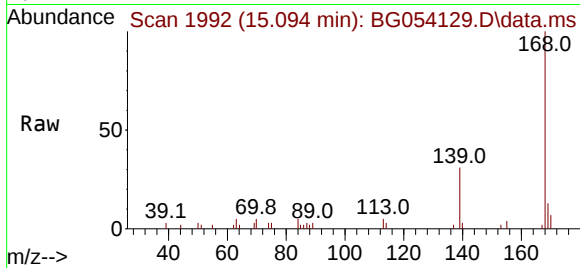




#56  
4-Nitrophenol  
Concen: 5.152 ng  
RT: 15.094 min Scan# 1992  
Delta R.T. 0.197 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

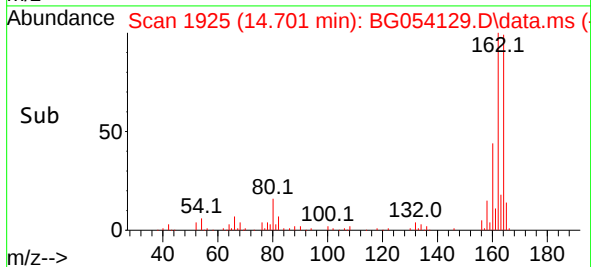
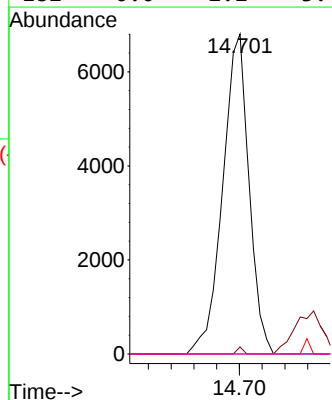
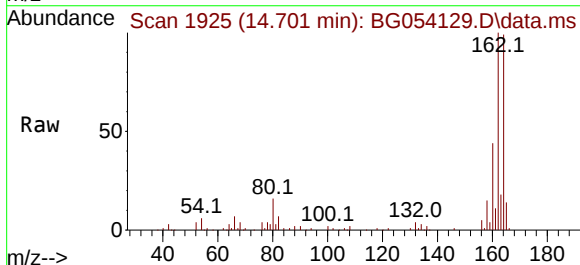
Instrument :  
BNA\_G  
ClientSampleId :  
SB-9-0-2-20220623

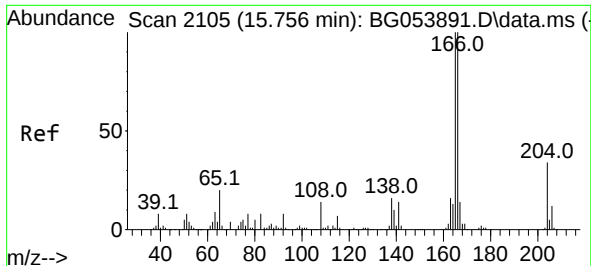
Tgt Ion:139 Resp: 4370  
Ion Ratio Lower Upper  
139 100  
109 0.0 88.5 128.5#  
65 0.0 93.9 133.9#



#57  
2,4-Dinitrotoluene  
Concen: 6.267 ng  
RT: 14.701 min Scan# 1925  
Delta R.T. -0.350 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:165 Resp: 10914  
Ion Ratio Lower Upper  
165 100  
63 2.2 34.6 52.0#  
89 0.0 60.3 90.5#  
182 0.0 2.2 3.4#

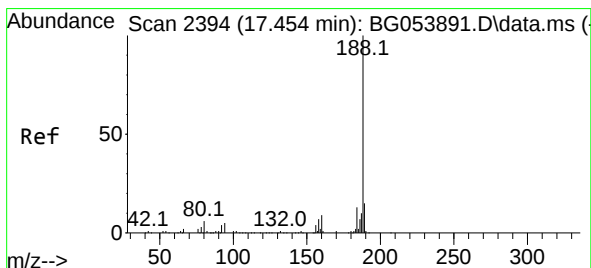
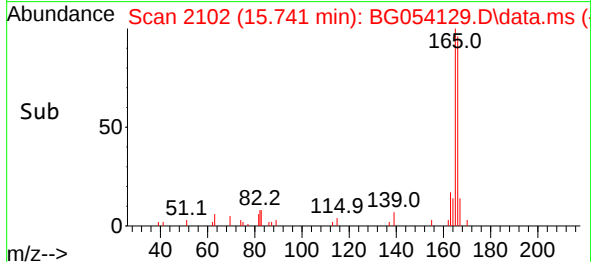
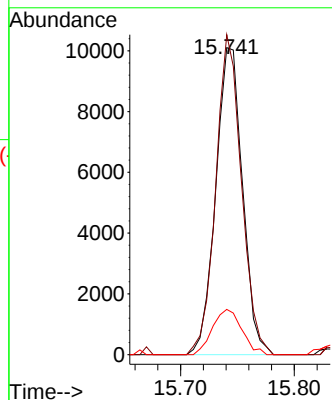
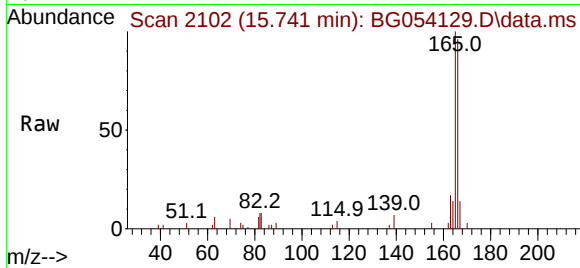




#58  
 Fluorene  
 Concen: 2.794 ng  
 RT: 15.741 min Scan# 2105  
 Delta R.T. -0.003 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

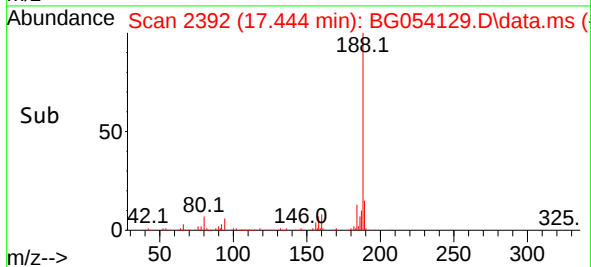
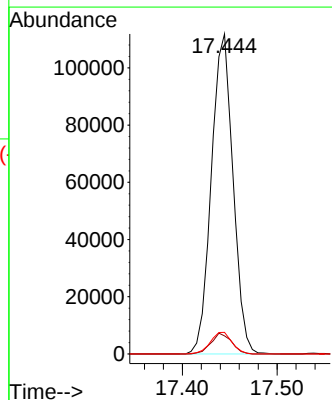
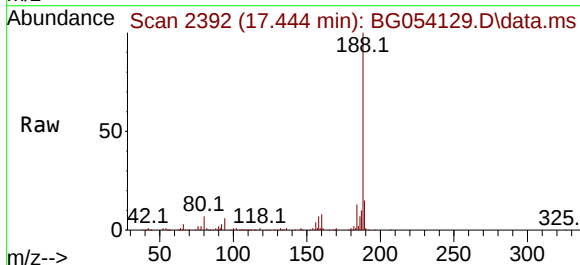
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-9-0-2-20220623

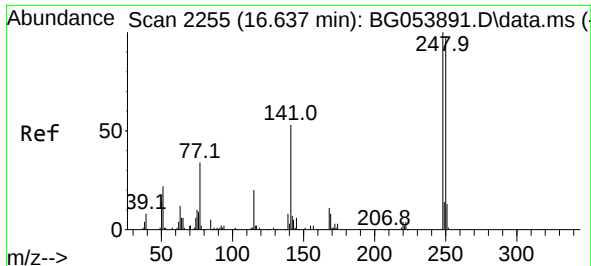
Tgt Ion:166 Resp: 16554  
 Ion Ratio Lower Upper  
 166 100  
 165 104.2 75.0 112.6  
 167 14.7 10.8 16.2



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.444 min Scan# 2392  
 Delta R.T. 0.003 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

Tgt Ion:188 Resp: 177474  
 Ion Ratio Lower Upper  
 188 100  
 94 5.6 5.4 8.0  
 80 6.8 6.8 10.2#

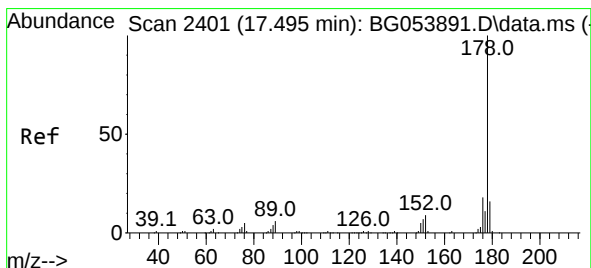
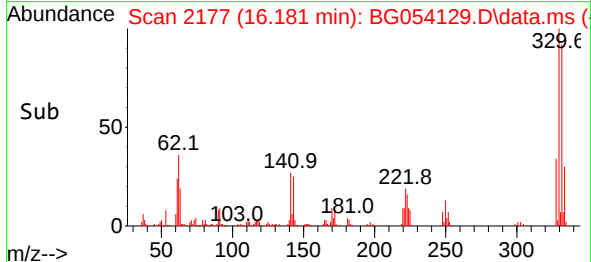
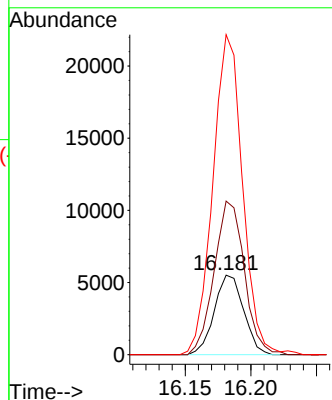
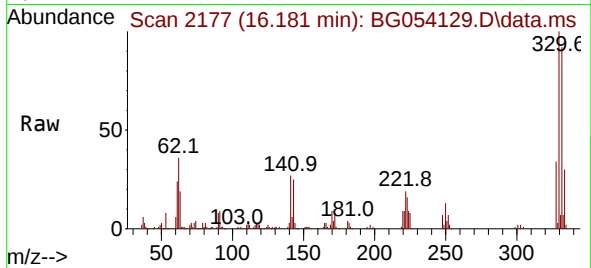




#67  
4-Bromophenyl-phenylether  
Concen: 3.859 ng  
RT: 16.181 min Scan# 2177  
Delta R.T. -0.444 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

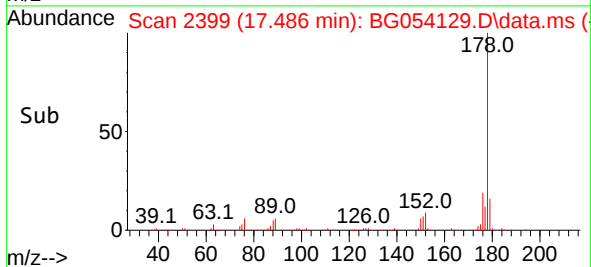
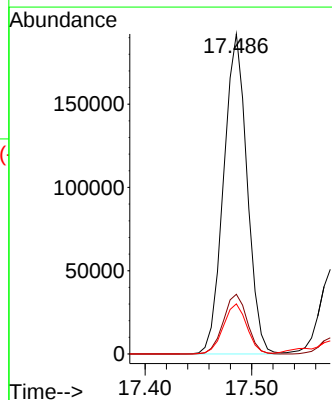
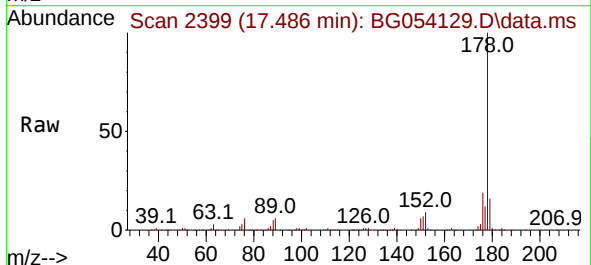
Instrument :  
BNA\_G  
ClientSampleId :  
SB-9-0-2-20220623

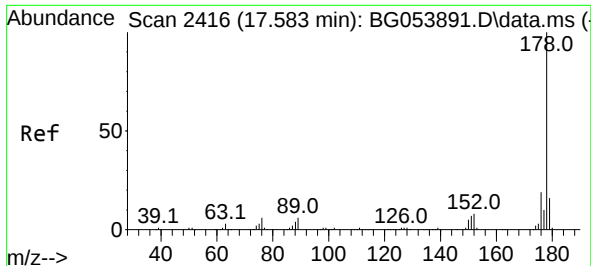
Tgt Ion:248 Resp: 8554  
Ion Ratio Lower Upper  
248 100  
250 192.0 75.2 112.8#  
141 305.0 50.0 75.0#



#71  
Phenanthrene  
Concen: 32.129 ng  
RT: 17.486 min Scan# 2399  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:178 Resp: 292955  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.1 21.1  
179 15.7 12.1 18.1

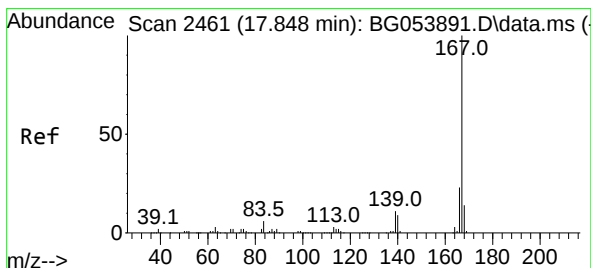
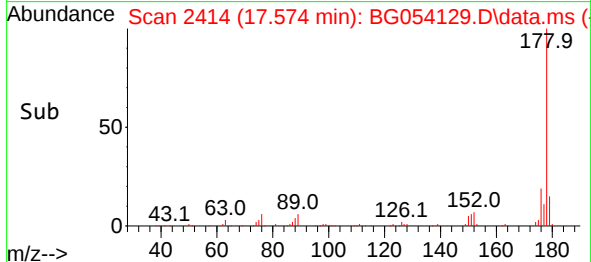
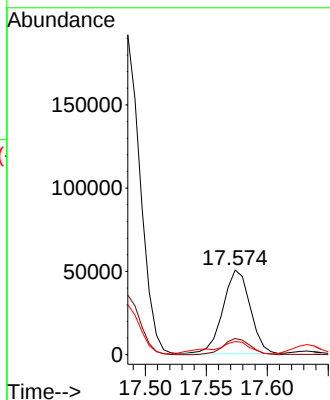
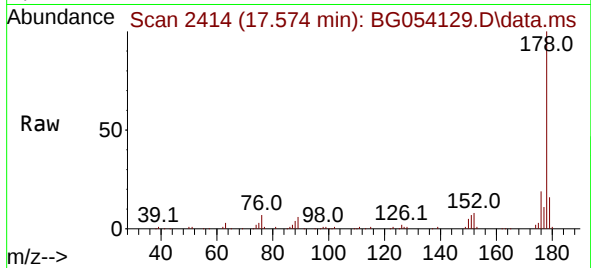




#72  
 Anthracene  
 Concen: 8.800 ng  
 RT: 17.574 min Scan# 2416  
 Delta R.T. -0.003 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

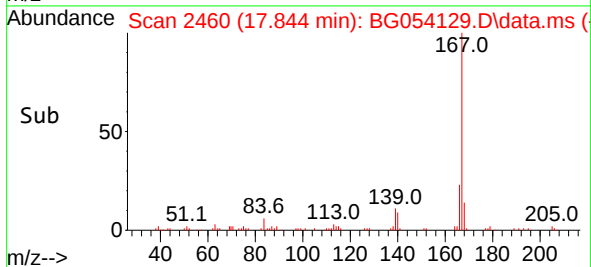
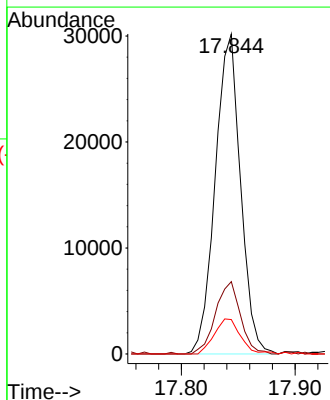
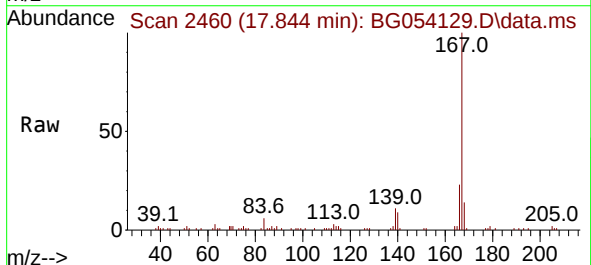
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-9-0-2-20220623

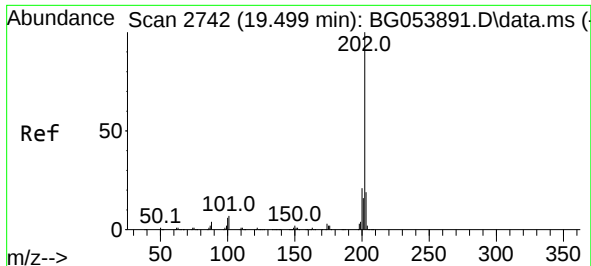
Tgt Ion:178 Resp: 78360  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.2 22.8  
 179 15.6 13.0 19.4



#73  
 Carbazole  
 Concen: 6.099 ng  
 RT: 17.844 min Scan# 2460  
 Delta R.T. 0.003 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

Tgt Ion:167 Resp: 46615  
 Ion Ratio Lower Upper  
 167 100  
 166 22.6 18.2 27.2  
 139 10.8 10.1 15.1

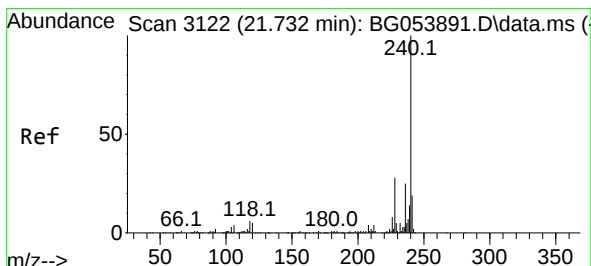
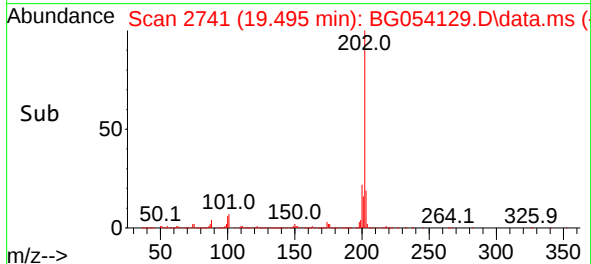
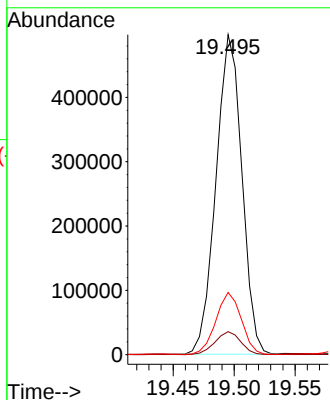
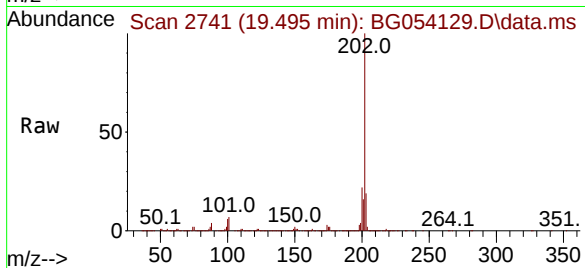




#75  
Fluoranthene  
Concen: 61.494 ng  
RT: 19.495 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

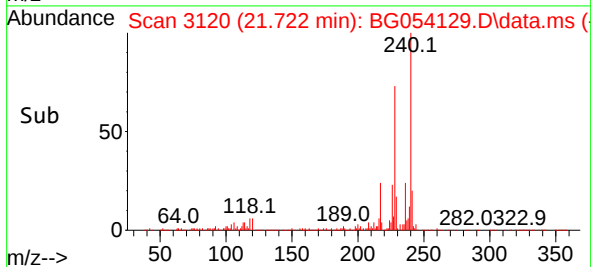
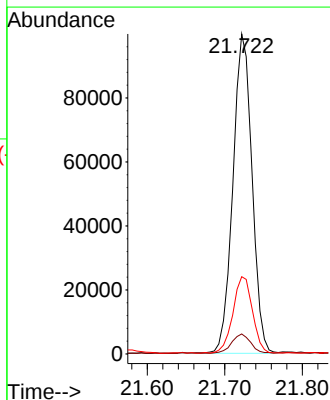
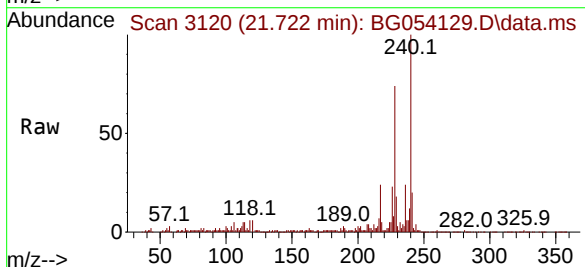
Instrument :  
BNA\_G  
ClientSampleId :  
SB-9-0-2-20220623

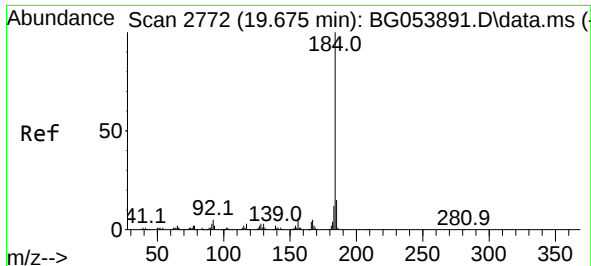
Tgt Ion:202 Resp: 736058  
Ion Ratio Lower Upper  
202 100  
101 7.2 0.0 26.9  
203 19.5 0.0 37.2



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.722 min Scan# 3120  
Delta R.T. 0.003 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:240 Resp: 170807  
Ion Ratio Lower Upper  
240 100  
120 6.3 4.6 7.0  
236 24.1 20.2 30.4

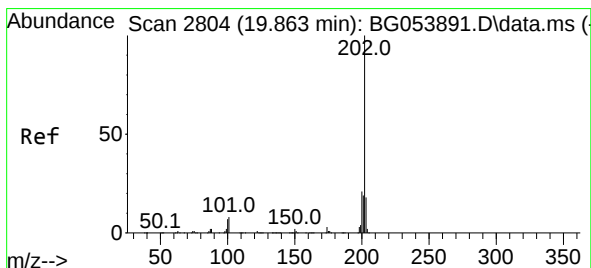
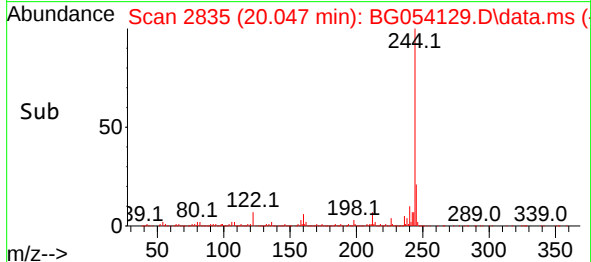
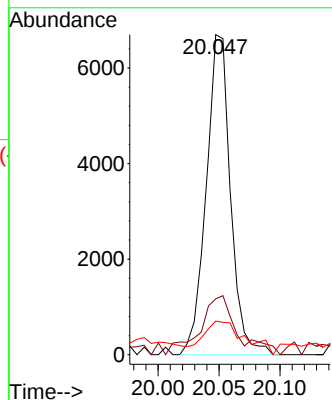
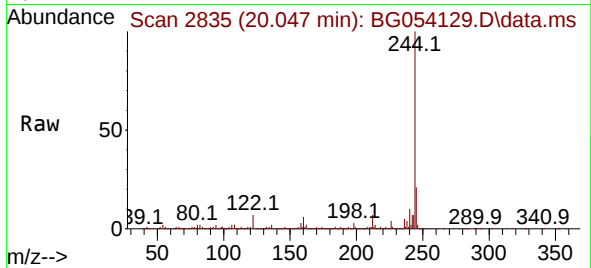




#77  
Benzidine  
Concen: 2.629 ng  
RT: 20.047 min Scan# 21  
Delta R.T. 0.385 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

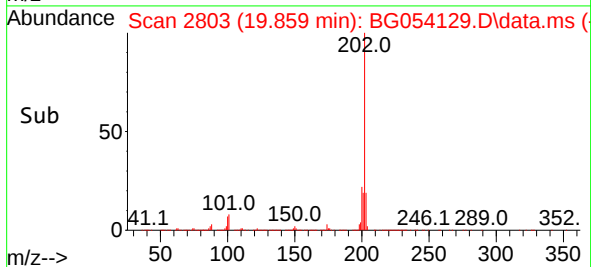
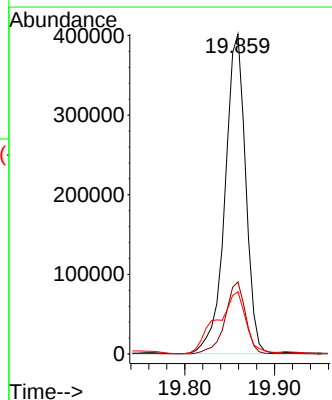
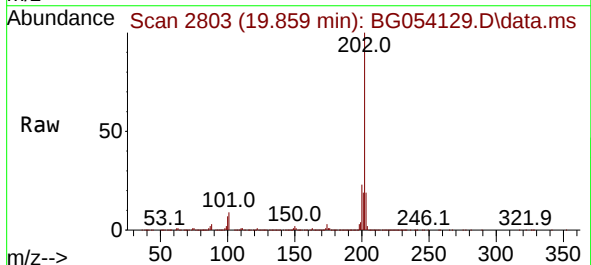
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BNA\_G  
ClientSampleId :  
SB-9-0-2-20220623

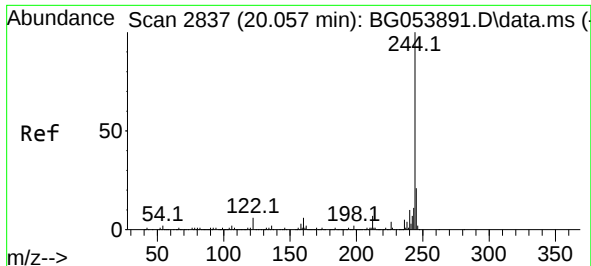
Tgt Ion:184 Resp: 9298  
Ion Ratio Lower Upper  
184 100  
185 17.5 11.8 17.6  
183 10.5 8.9 13.3



#78  
Pyrene  
Concen: 62.035 ng  
RT: 19.859 min Scan# 2803  
Delta R.T. 0.009 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:202 Resp: 639969  
Ion Ratio Lower Upper  
202 100  
200 22.5 16.6 24.8  
203 19.4 14.6 21.8

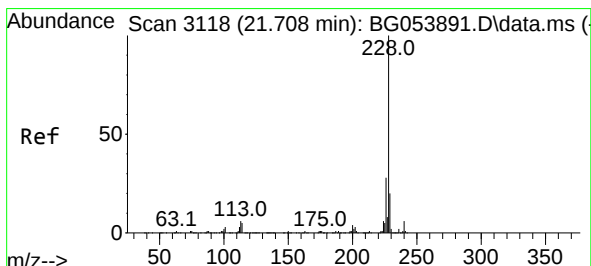
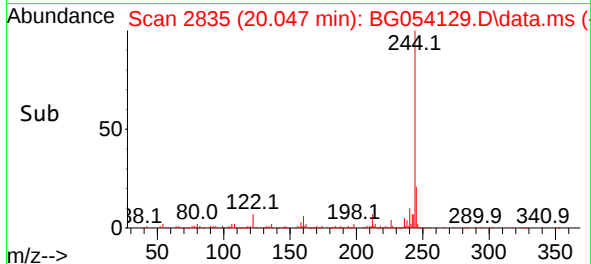
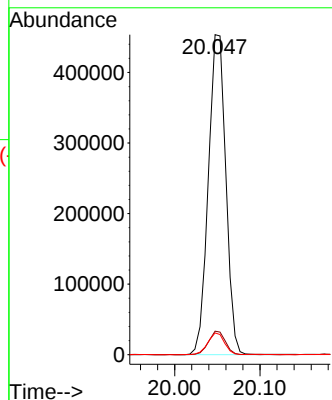
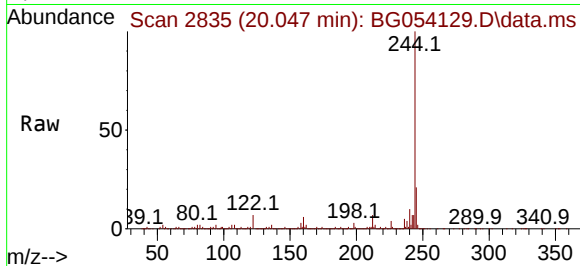




#79  
 Terphenyl-d14  
 Concen: 76.197 ng  
 RT: 20.047 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

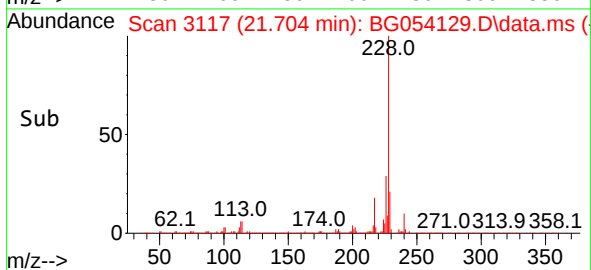
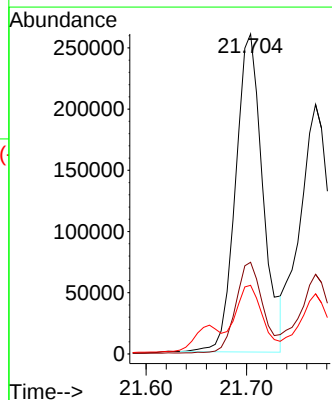
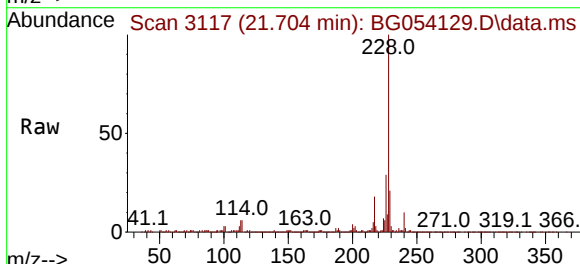
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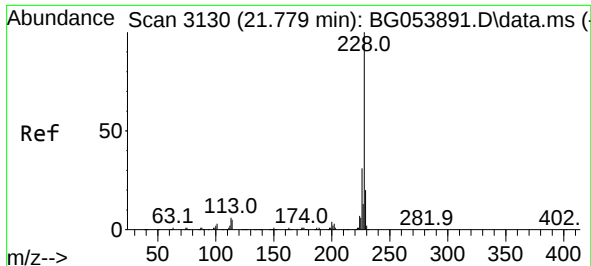
Tgt Ion:244 Resp: 646199  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.5 9.7  
 122 6.8 5.0 7.4



#81  
 Benzo(a)anthracene  
 Concen: 44.321 ng  
 RT: 21.704 min Scan# 3117  
 Delta R.T. 0.009 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

Tgt Ion:228 Resp: 490169  
 Ion Ratio Lower Upper  
 228 100  
 226 28.6 21.6 32.4  
 229 21.4 16.2 24.2

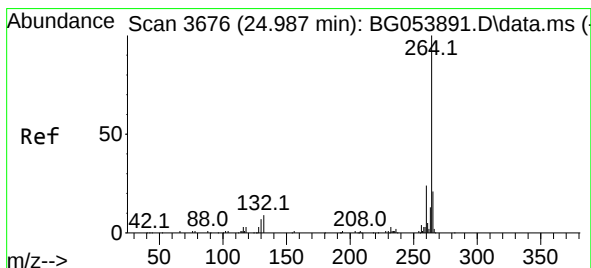
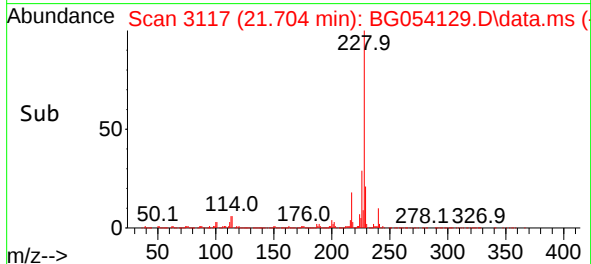
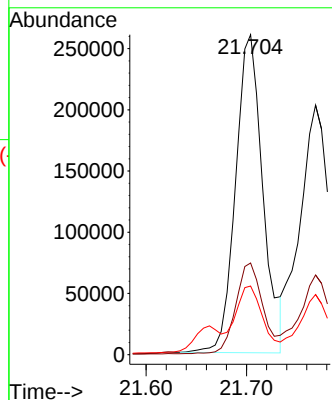
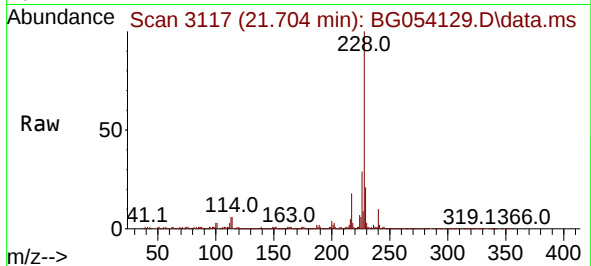




#83  
Chrysene  
Concen: 46.497 ng  
RT: 21.704 min Scan# 31  
Delta R.T. -0.056 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

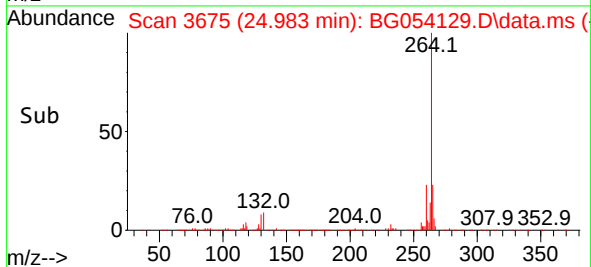
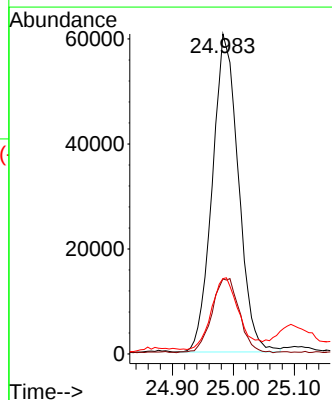
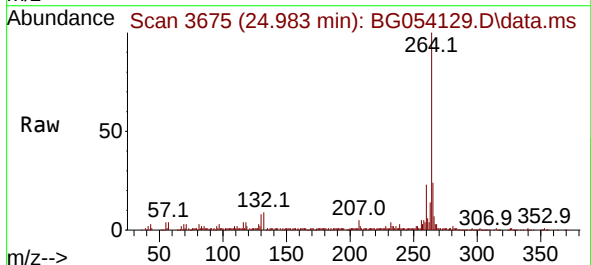
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SB-9-0-2-20220623

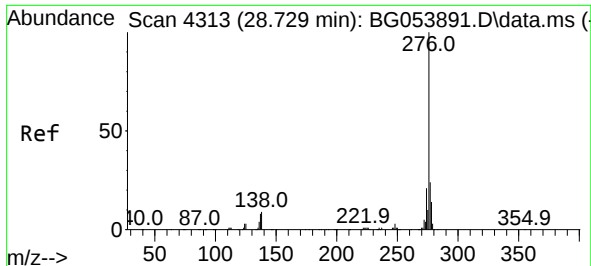
Tgt Ion:228 Resp: 490169  
Ion Ratio Lower Upper  
228 100  
226 28.6 23.4 35.2  
229 21.4 15.5 23.3



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.983 min Scan# 3675  
Delta R.T. 0.020 min  
Lab File: BG054129.D  
Acq: 28 Jun 2022 22:47

Tgt Ion:264 Resp: 180204  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.0 28.6  
265 23.5 17.4 26.2

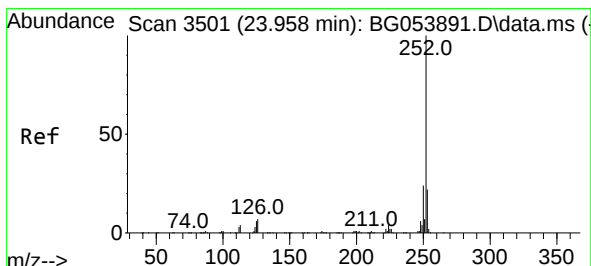
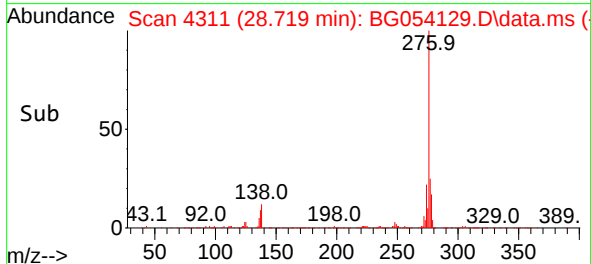
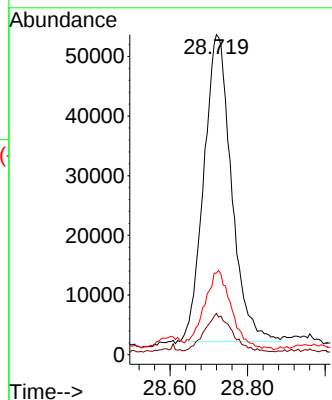
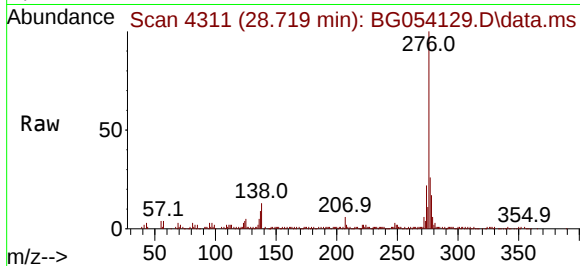




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 18.679 ng  
 RT: 28.719 min Scan# 41  
 Delta R.T. 0.032 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

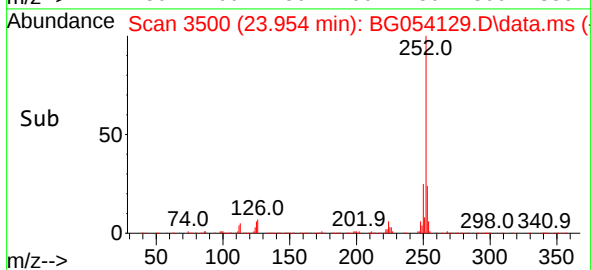
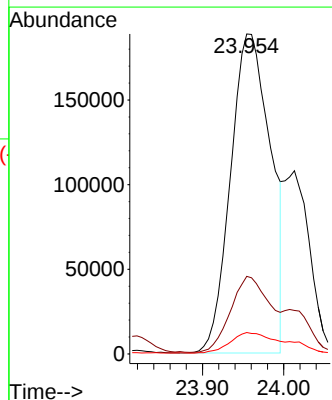
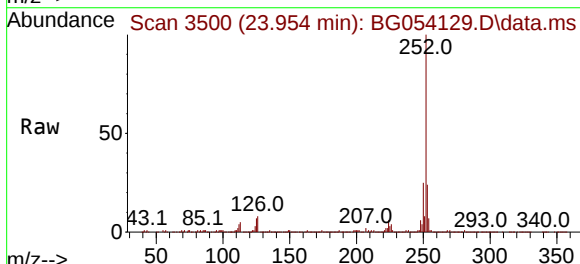
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 SB-9-0-2-20220623

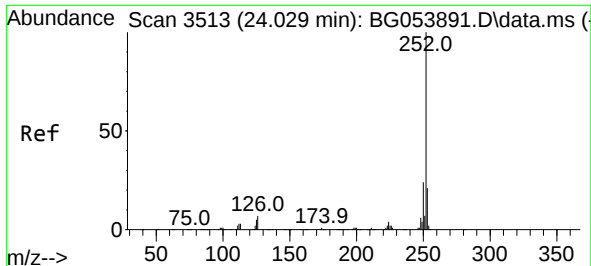
Tgt Ion:276 Resp: 254015  
 Ion Ratio Lower Upper  
 276 100  
 138 11.6 5.0 7.4#  
 277 24.7 20.3 30.5



#88  
 Benzo(b)fluoranthene  
 Concen: 59.001 ng  
 RT: 23.954 min Scan# 3500  
 Delta R.T. 0.020 min  
 Lab File: BG054129.D  
 Acq: 28 Jun 2022 22:47

Tgt Ion:252 Resp: 646467  
 Ion Ratio Lower Upper  
 252 100  
 253 24.2 18.0 27.0  
 125 6.7 4.6 6.8





#89

Benzo(k)fluoranthene

Concen: 59.592 ng

RT: 23.954 min Scan# 3

Delta R.T. -0.050 min

Lab File: BG054129.D

Acq: 28 Jun 2022 22:47

Instrument :

BNA\_G

ClientSampleId :

SB-9-0-2-20220623

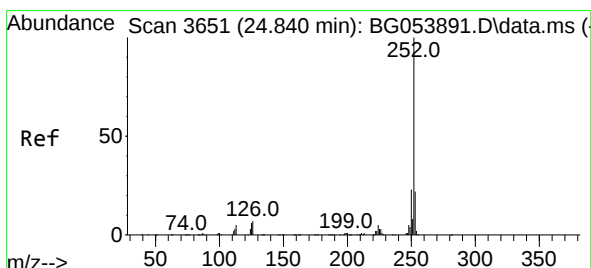
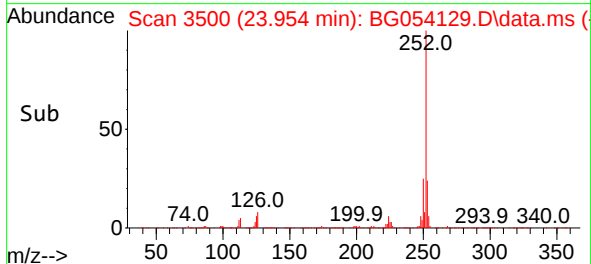
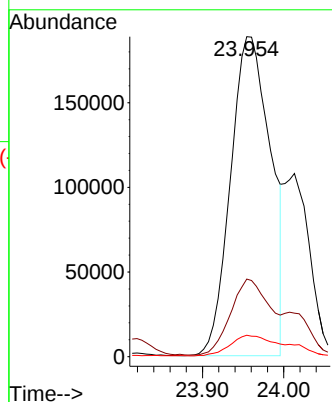
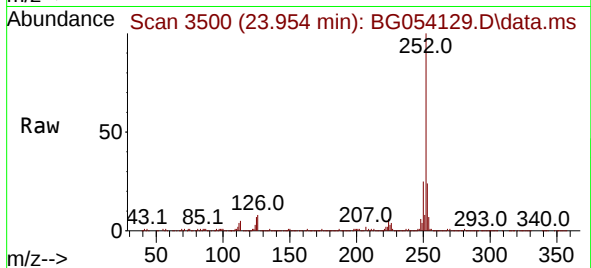
Tgt Ion:252 Resp: 646467

Ion Ratio Lower Upper

252 100

253 24.2 18.4 27.6

125 6.7 4.8 7.2



#90

Benzo(a)pyrene

Concen: 48.419 ng

RT: 24.836 min Scan# 3650

Delta R.T. 0.020 min

Lab File: BG054129.D

Acq: 28 Jun 2022 22:47

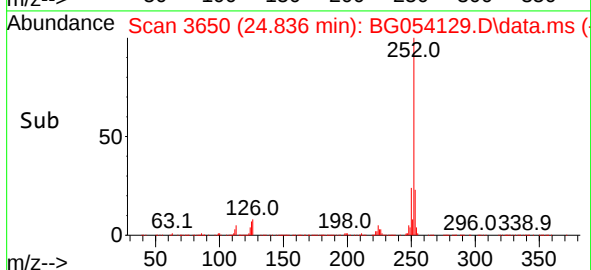
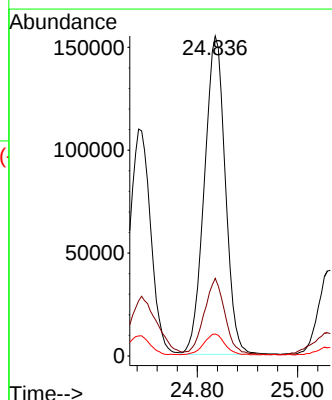
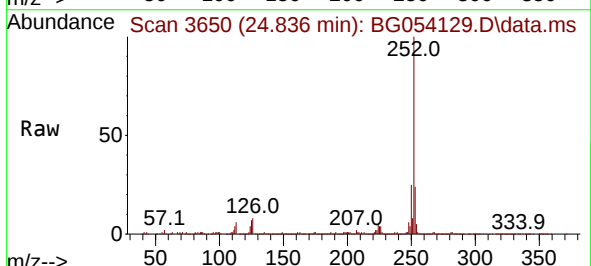
Tgt Ion:252 Resp: 447619

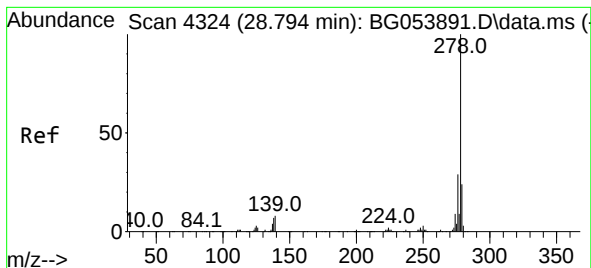
Ion Ratio Lower Upper

252 100

253 24.3 17.8 26.8

125 6.9 4.3 6.5#





#91

Dibenzo(a,h)anthracene

Concen: 6.344 ng

RT: 28.755 min Scan# 41

Delta R.T. 0.009 min

Lab File: BG054129.D

Acq: 28 Jun 2022 22:47

Instrument :

BNA\_G

ClientSampleId :

SB-9-0-2-20220623

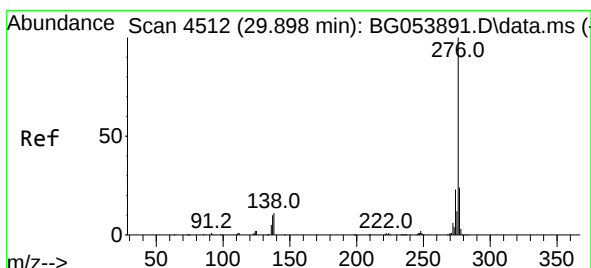
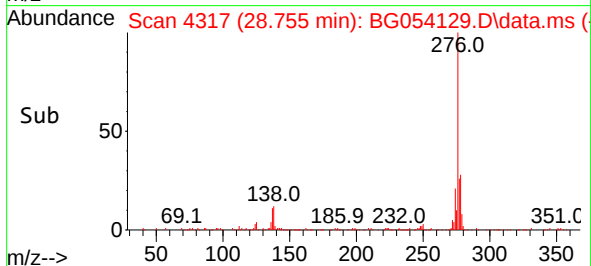
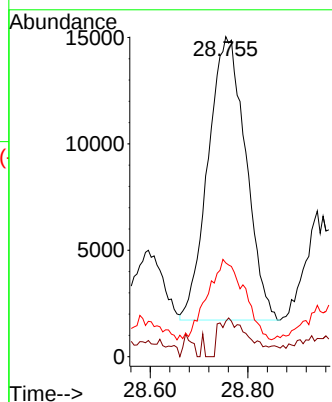
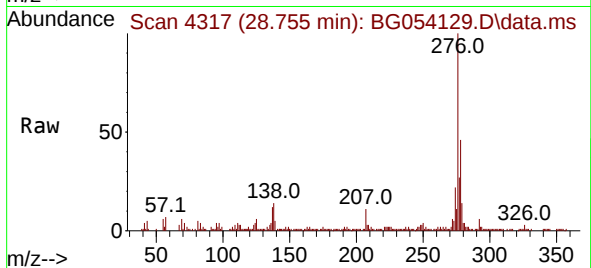
Tgt Ion:278 Resp: 71340

Ion Ratio Lower Upper

278 100

139 11.1 7.2 10.8#

279 29.3 18.6 27.8#



#92

Benzo(g,h,i)perylene

Concen: 22.735 ng

RT: 29.889 min Scan# 4510

Delta R.T. 0.026 min

Lab File: BG054129.D

Acq: 28 Jun 2022 22:47

Tgt Ion:276 Resp: 252303

Ion Ratio Lower Upper

276 100

277 24.7 17.3 25.9

138 12.5 9.6 14.4

