

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082922\  
 Data File : BG054779.D  
 Acq On : 29 Aug 2022 19:34  
 Operator : CG/JU  
 Sample : N4376-03  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-38

Quant Time: Aug 30 02:50:43 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 25 17:50:55 2022  
 Response via : Initial Calibration

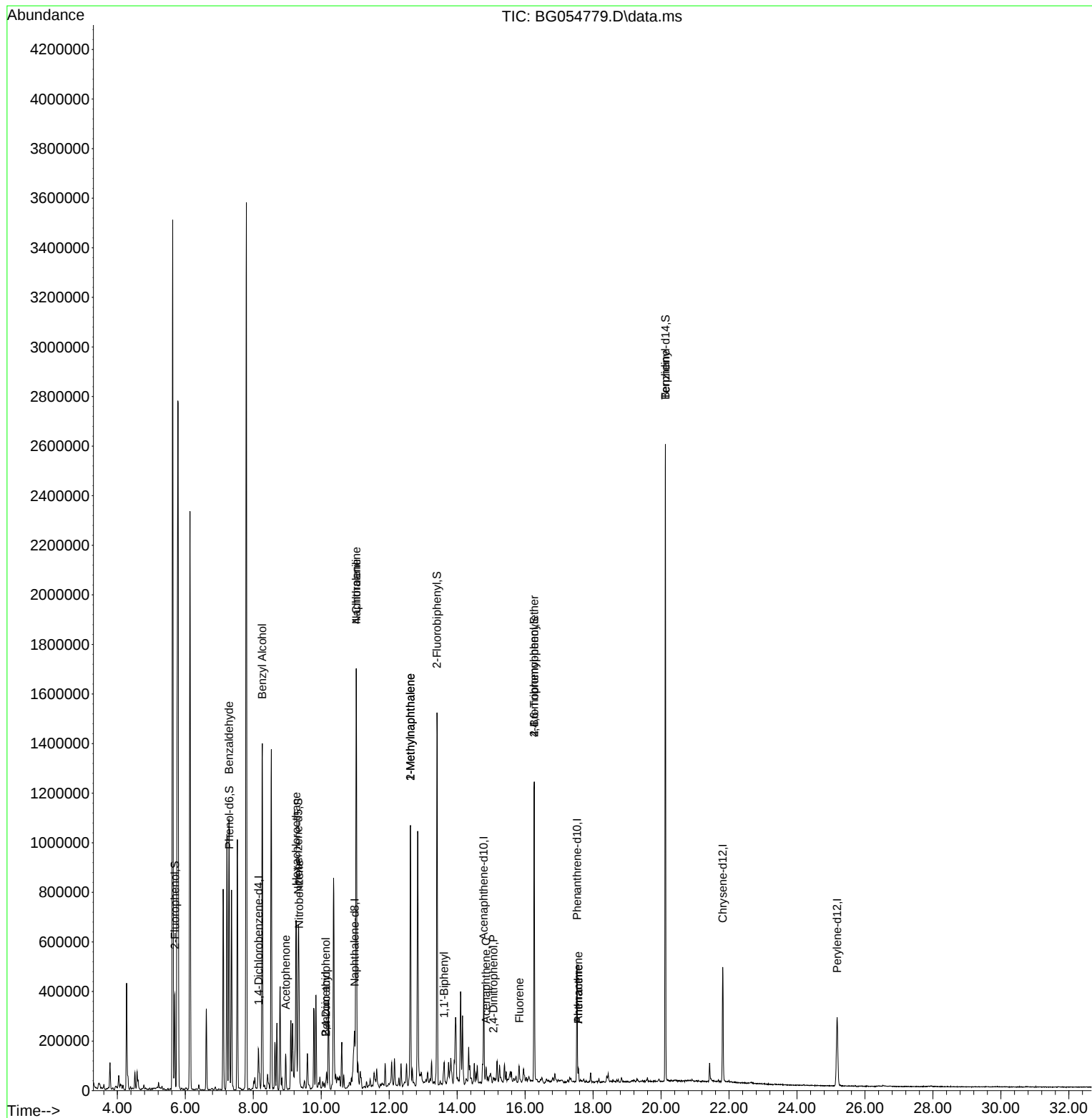
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.153  | 152  | 49136    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.979 | 136  | 203324   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.781 | 164  | 134880   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.525 | 188  | 305478   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.814 | 240  | 295722   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12              | 25.180 | 264  | 311049   | 20.000  | ng    | -0.02    |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.691  | 112  | 179847   | 63.737  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.295  | 99   | 153361   | 39.742  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.323  | 82   | 341057   | 88.058  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.267 | 330  | 250782   | 148.796 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.406 | 172  | 805227   | 89.729  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.128 | 244  | 1283989  | 86.030  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 9) Benzaldehyde               | 7.284  | 77   | 71313    | 28.196  | ng    | # 1      |
| 15) Benzyl Alcohol            | 8.265  | 79   | 73910    | 26.512  | ng    | # 9      |
| 18) Hexachloroethane          | 9.264  | 117  | 84979    | 65.122  | ng    | # 1      |
| 22) Acetophenone              | 8.952  | 105  | 108467   | 21.323  | ng    | # 55     |
| 24) Nitrobenzene              | 9.346  | 77   | 13953    | 3.574   | ng    | # 1      |
| 27) 2,4-Dimethylphenol        | 10.133 | 122  | 9451     | 3.459   | ng    | 95       |
| 31) Naphthalene               | 11.032 | 128  | 1437514  | 131.776 | ng    | 97       |
| 32) Benzoic acid              | 10.133 | 122  | 9451     | 11.861  | ng    | # 24     |
| 33) 4-Chloroaniline           | 11.032 | 127  | 211443   | 47.544  | ng    | # 34     |
| 37) 2-Methylnaphthalene       | 12.625 | 142  | 535452   | 70.032  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.625 | 142  | 535452   | 71.981  | ng    | 95       |
| 46) 1,1'-Biphenyl             | 13.618 | 154  | 43085    | 4.302   | ng    | 99       |
| 52) Acenaphthene              | 14.845 | 154  | 17717    | 2.197   | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 15.063 | 184  | 225      | 6.872   | ng    | # 1      |
| 58) Fluorene                  | 15.827 | 166  | 26268    | 2.632   | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.267 | 248  | 16565    | 4.939   | ng    | # 1      |
| 71) Phenanthrene              | 17.566 | 178  | 34830    | 2.140   | ng    | 99       |
| 72) Anthracene                | 17.566 | 178  | 34830    | 2.201   | ng    | 98       |
| 77) Benzidine                 | 20.128 | 184  | 20136    | 2.749   | ng    | # 91     |
| -----                         |        |      |          |         |       |          |

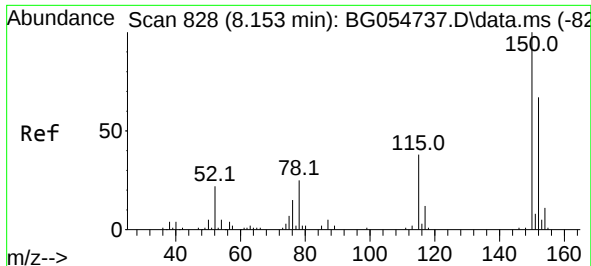
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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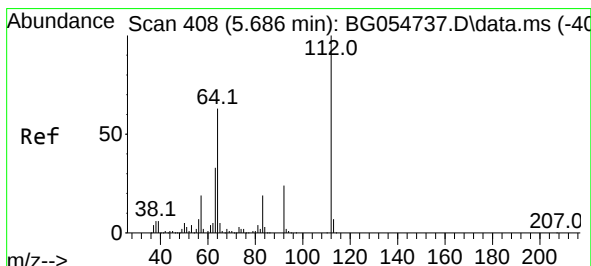
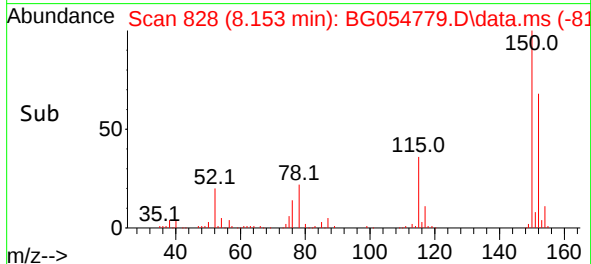
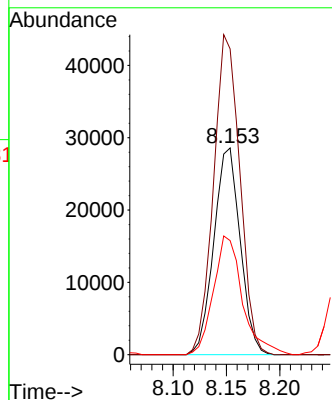
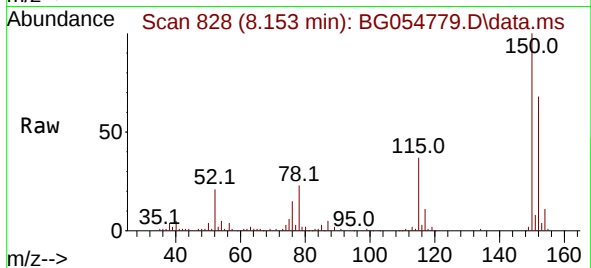




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.153 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

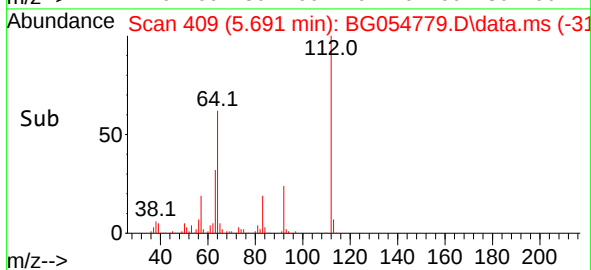
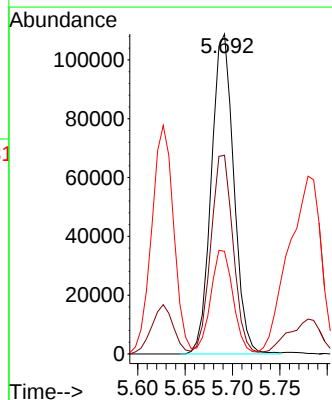
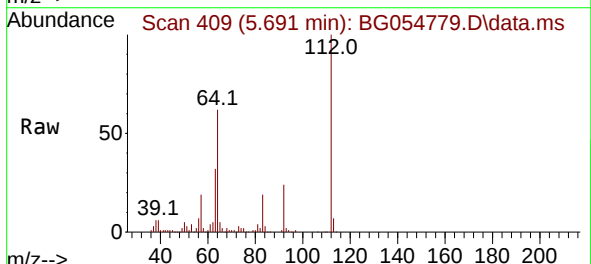
Instrument :  
BNA\_G  
ClientSampleId :  
MW-38

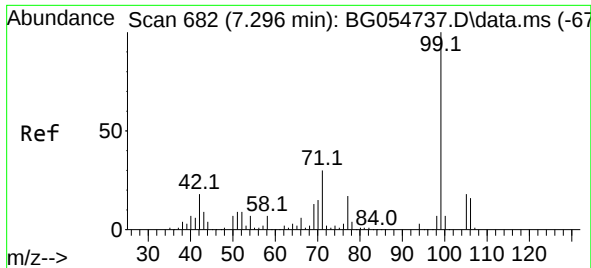
Tgt Ion:152 Resp: 49136  
Ion Ratio Lower Upper  
152 100  
150 147.9 125.2 187.8  
115 55.2 47.9 71.9



#5  
2-Fluorophenol  
Concen: 63.737 ng  
RT: 5.691 min Scan# 409  
Delta R.T. 0.006 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

Tgt Ion:112 Resp: 179847  
Ion Ratio Lower Upper  
112 100  
64 62.1 49.3 73.9  
63 32.1 26.3 39.5

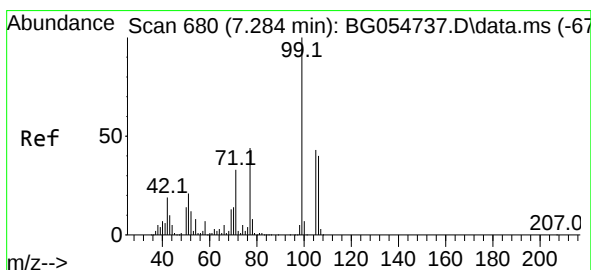
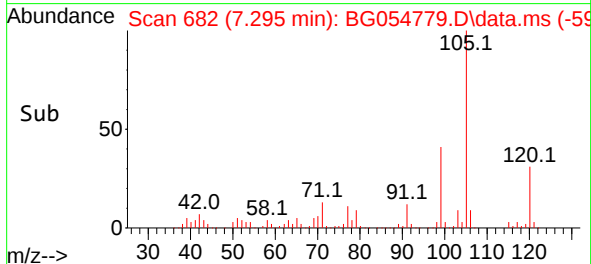
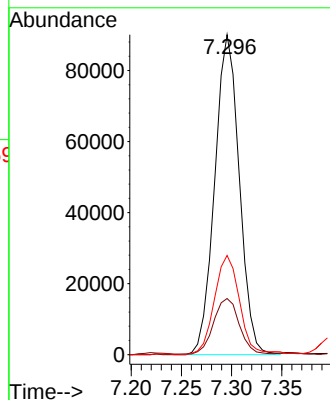
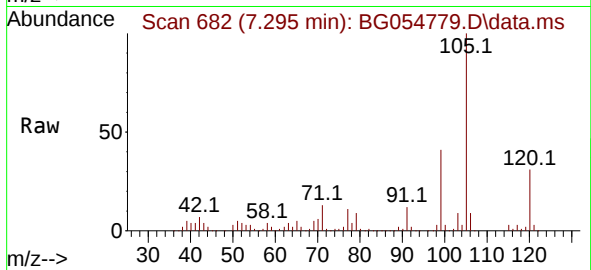




#7  
Phenol-d6  
Concen: 39.742 ng  
RT: 7.295 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

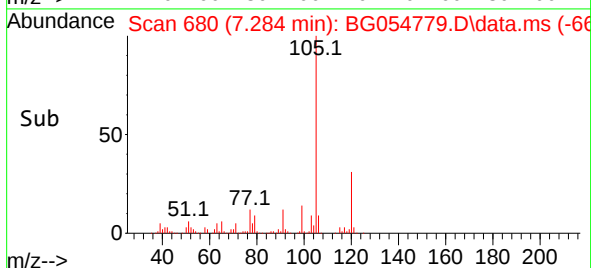
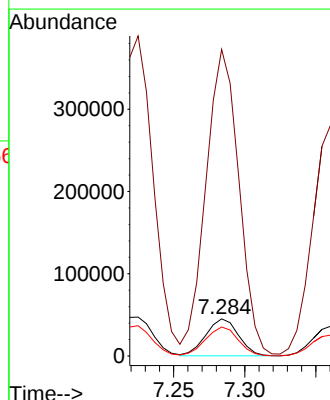
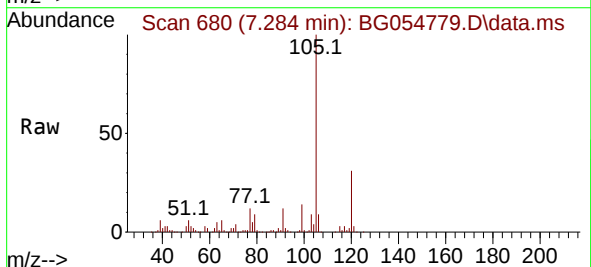
Instrument :  
BNA\_G  
ClientSampleId :  
MW-38

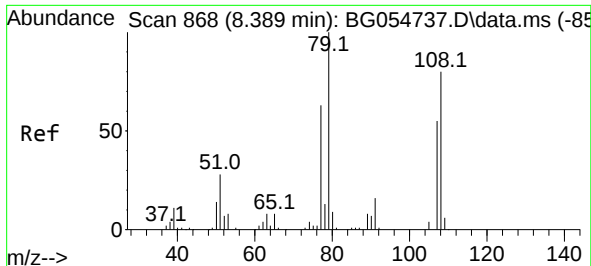
Tgt Ion: 99 Resp: 153361  
Ion Ratio Lower Upper  
99 100  
42 17.5 14.6 22.0  
71 31.0 24.6 37.0



#9  
Benzaldehyde  
Concen: 28.196 ng  
RT: 7.284 min Scan# 680  
Delta R.T. -0.000 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

Tgt Ion: 77 Resp: 71313  
Ion Ratio Lower Upper  
77 100  
105 825.7 75.3 115.3#  
106 77.9 70.2 110.2

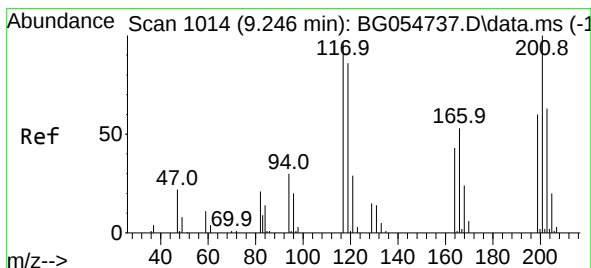
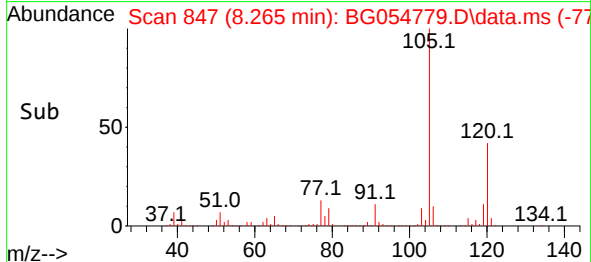
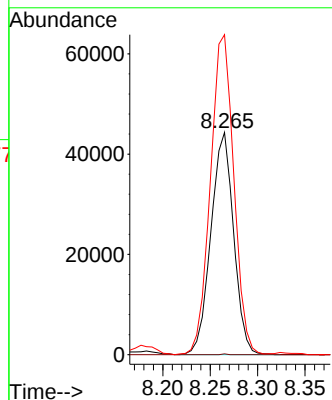
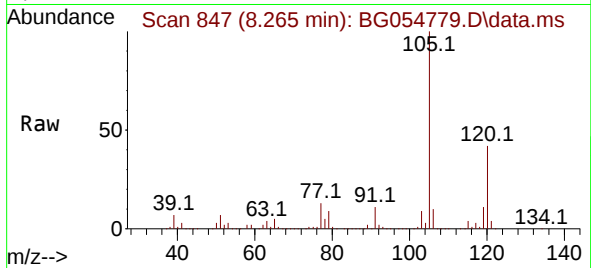




#15  
Benzyl Alcohol  
Concen: 26.512 ng  
RT: 8.265 min Scan# 84  
Delta R.T. -0.124 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

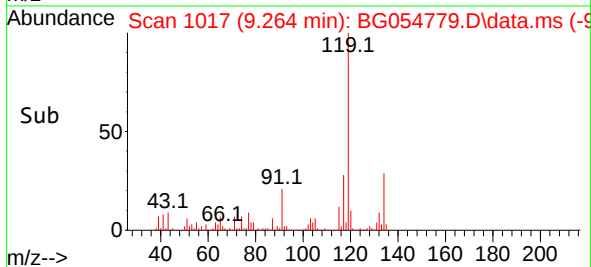
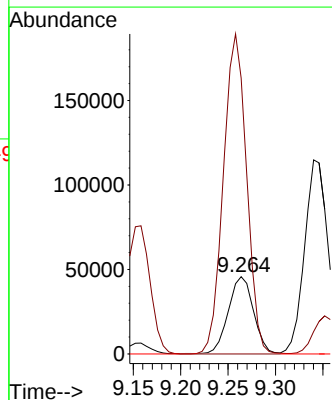
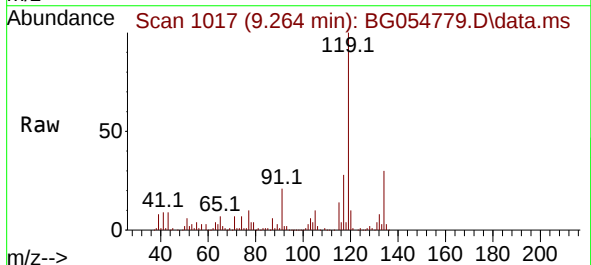
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MW-38

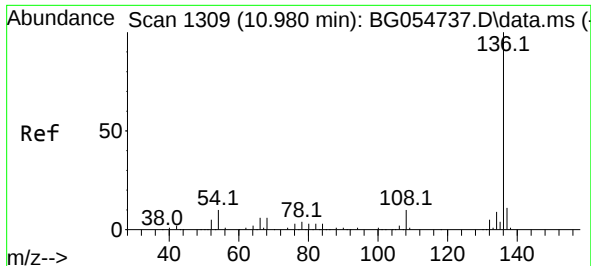
Tgt Ion: 79 Resp: 73910  
Ion Ratio Lower Upper  
79 100  
108 0.4 63.4 95.0#  
77 144.0 55.0 82.4#



#18  
Hexachloroethane  
Concen: 65.122 ng  
RT: 9.264 min Scan# 1017  
Delta R.T. 0.017 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

Tgt Ion: 117 Resp: 84979  
Ion Ratio Lower Upper  
117 100  
119 357.0 77.0 115.6#  
201 0.0 87.2 130.8#

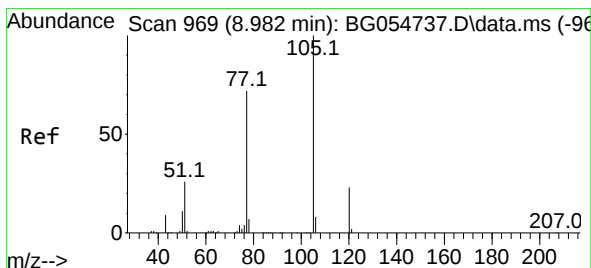
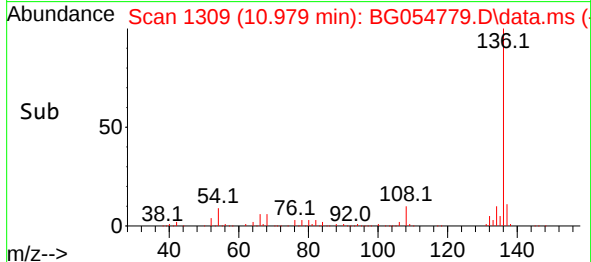
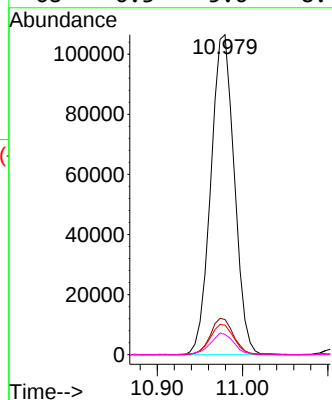
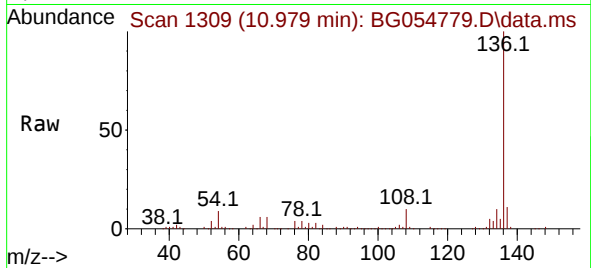




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.979 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

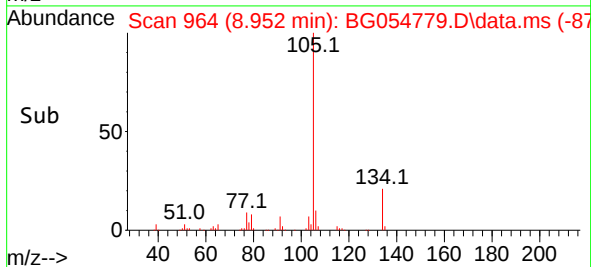
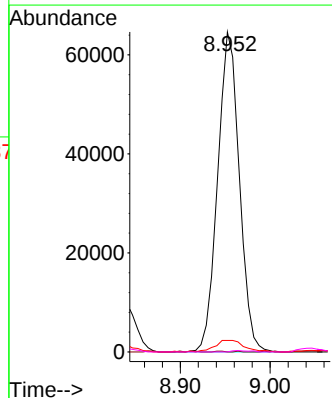
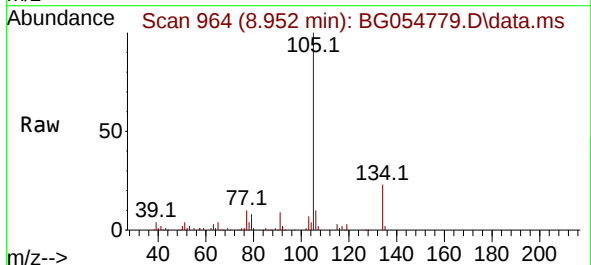
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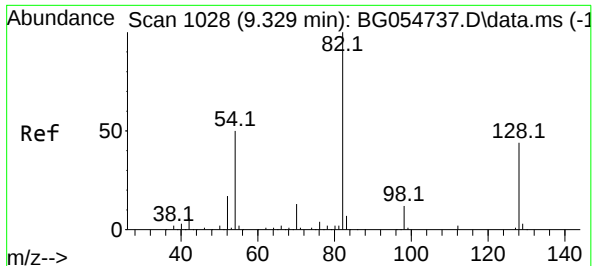
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|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 203324 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.2   | 13.8   |
| 54       | 9.2   | 7.7   | 11.5   |
| 68       | 6.3   | 5.6   | 8.4    |



#22  
Acetophenone  
Concen: 21.323 ng  
RT: 8.952 min Scan# 964  
Delta R.T. -0.030 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 108467 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 0.0   | 1.2   | 1.8#   |
| 51       | 3.6   | 22.9  | 34.3#  |
| 120      | 0.0   | 17.4  | 26.2#  |





#23

Nitrobenzene-d5

Concen: 88.058 ng

RT: 9.323 min Scan# 1027

Delta R.T. -0.006 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

Instrument :

BNA\_G

ClientSampleId :

MW-38

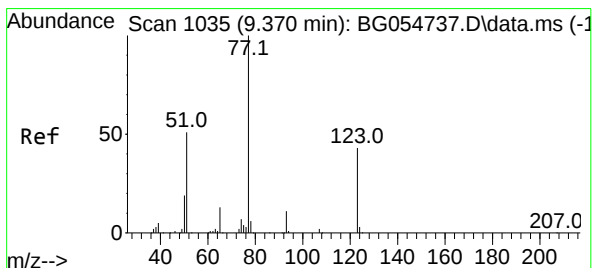
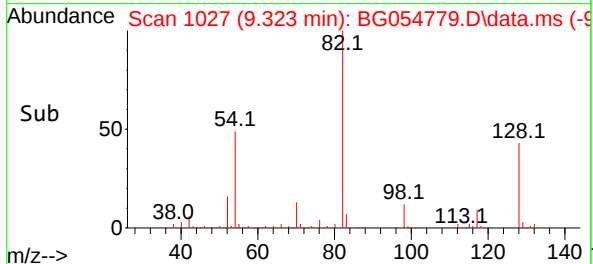
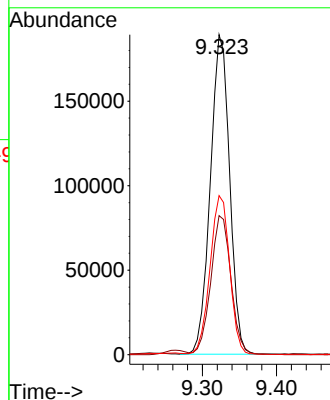
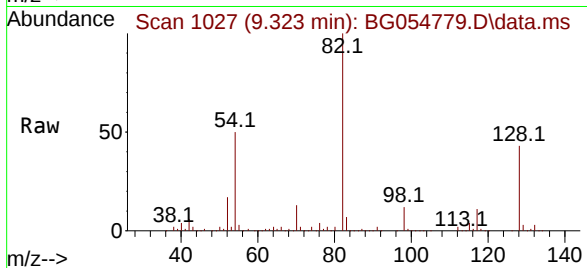
Tgt Ion: 82 Resp: 341057

Ion Ratio Lower Upper

82 100

128 43.5 32.2 48.2

54 49.7 41.4 62.0



#24

Nitrobenzene

Concen: 3.574 ng

RT: 9.346 min Scan# 1031

Delta R.T. -0.024 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

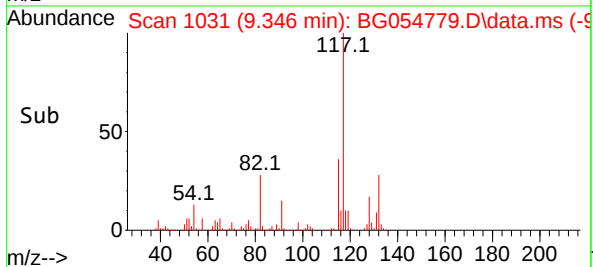
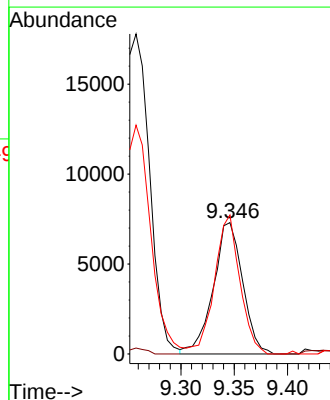
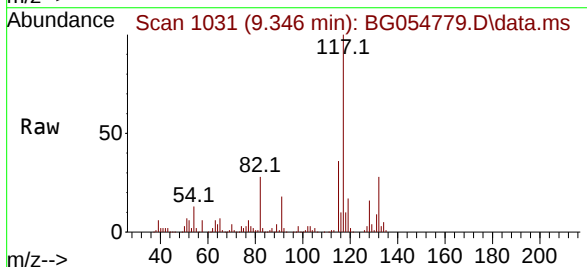
Tgt Ion: 77 Resp: 13953

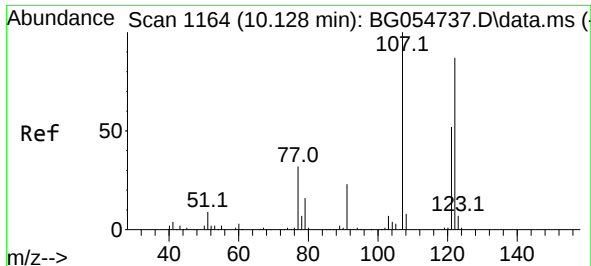
Ion Ratio Lower Upper

77 100

123 0.0 35.0 52.6#

65 105.8 10.2 15.2#





#27

2,4-Dimethylphenol

Concen: 3.459 ng

RT: 10.133 min Scan# 1165

Delta R.T. 0.006 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

Instrument :

BNA\_G

ClientSampleId :

MW-38

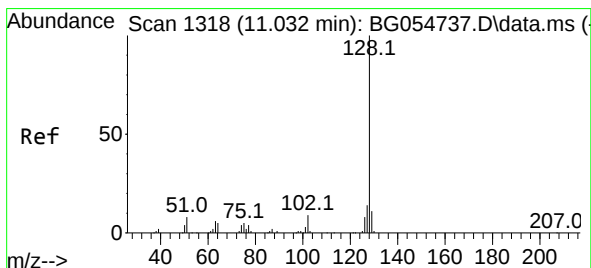
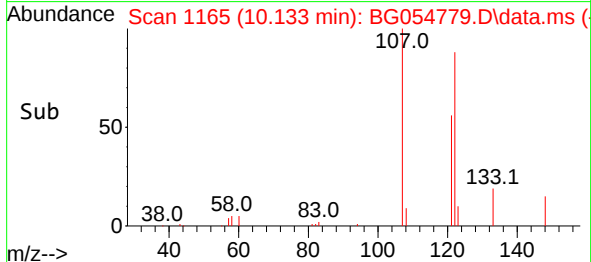
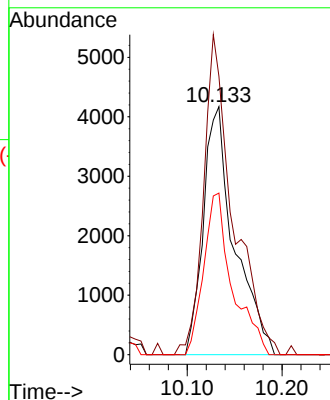
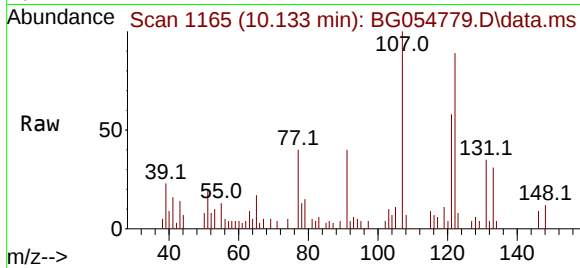
Tgt Ion:122 Resp: 9451

Ion Ratio Lower Upper

122 100

107 112.3 94.6 142.0

121 65.2 49.8 74.6



#31

Naphthalene

Concen: 131.776 ng

RT: 11.032 min Scan# 1318

Delta R.T. -0.000 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

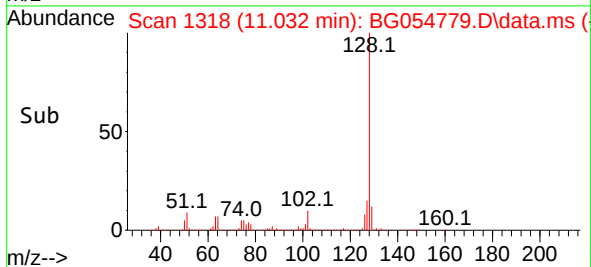
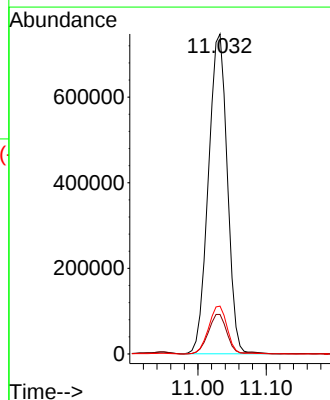
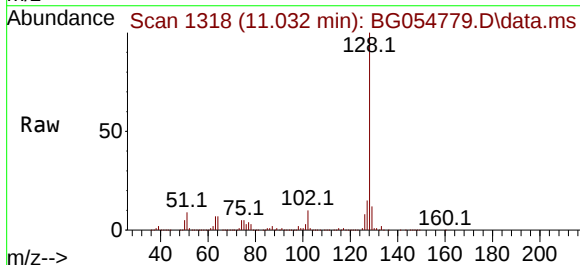
Tgt Ion:128 Resp: 1437514

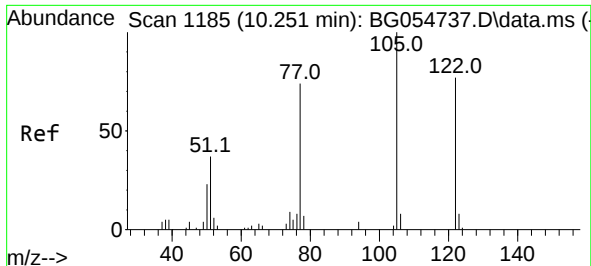
Ion Ratio Lower Upper

128 100

129 12.4 9.0 13.4

127 15.0 11.1 16.7

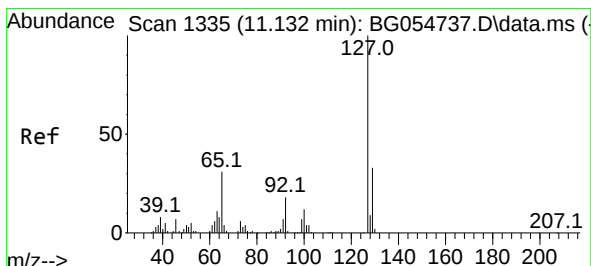
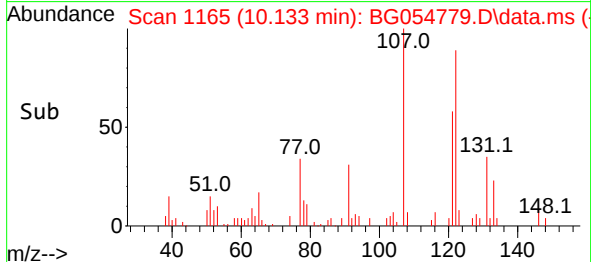
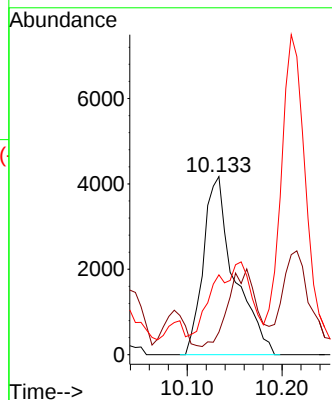
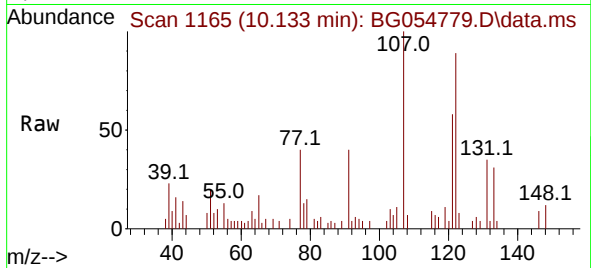




#32  
Benzoic acid  
Concen: 11.861 ng  
RT: 10.133 min Scan# 1165  
Delta R.T. -0.118 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

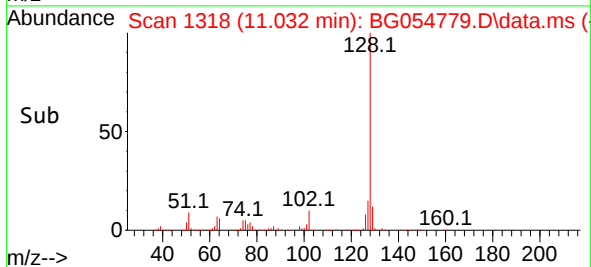
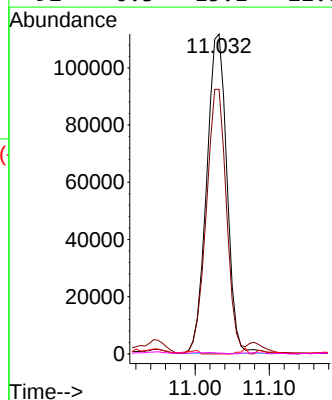
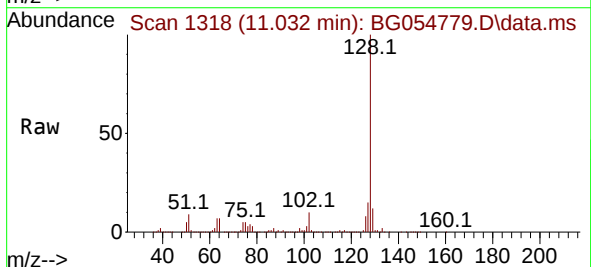
Instrument :  
BNA\_G  
ClientSampleId :  
MW-38

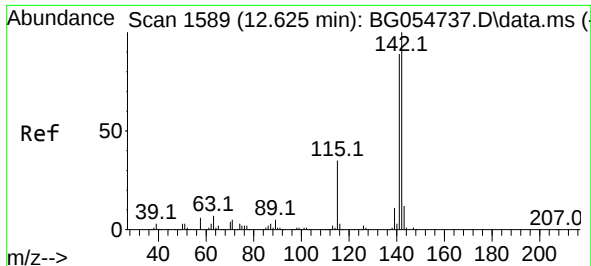
Tgt Ion:122 Resp: 9451  
Ion Ratio Lower Upper  
122 100  
105 12.6 101.5 141.5#  
77 44.9 69.3 109.3#



#33  
4-Chloroaniline  
Concen: 47.544 ng  
RT: 11.032 min Scan# 1318  
Delta R.T. -0.100 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

Tgt Ion:127 Resp: 211443  
Ion Ratio Lower Upper  
127 100  
129 82.7 26.0 39.0#  
65 0.0 25.8 38.8#  
92 0.3 15.1 22.7#





#37

2-Methylnaphthalene

Concen: 70.032 ng

RT: 12.625 min Scan# 1

Delta R.T. -0.000 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

Instrument :

BNA\_G

ClientSampleId :

MW-38

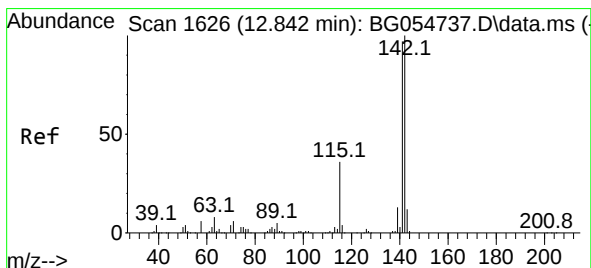
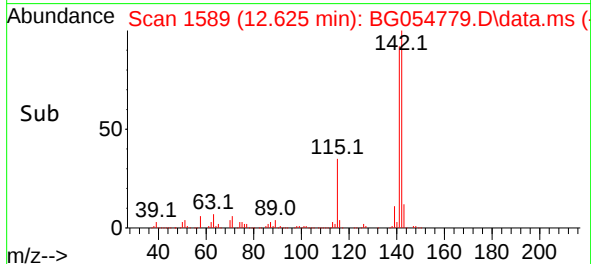
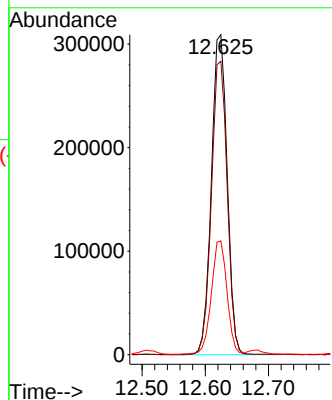
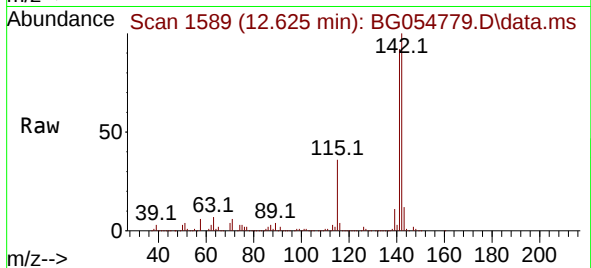
Tgt Ion:142 Resp: 535452

Ion Ratio Lower Upper

142 100

141 91.7 73.0 109.4

115 35.5 27.3 40.9



#38

1-Methylnaphthalene

Concen: 71.981 ng

RT: 12.625 min Scan# 1589

Delta R.T. -0.218 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

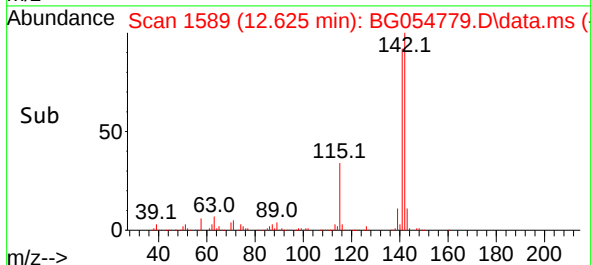
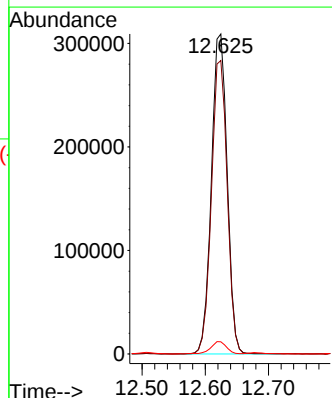
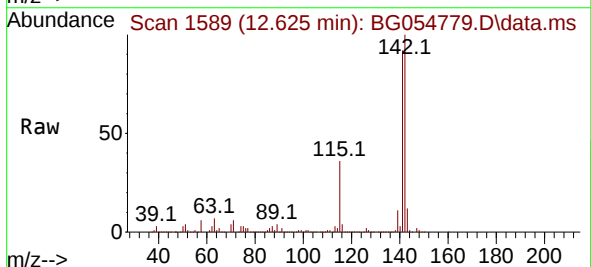
Tgt Ion:142 Resp: 535452

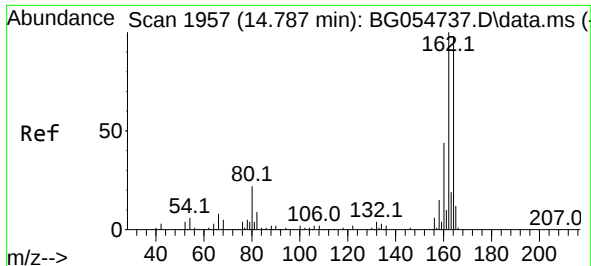
Ion Ratio Lower Upper

142 100

141 91.7 77.4 116.0

116 3.8 3.0 4.4

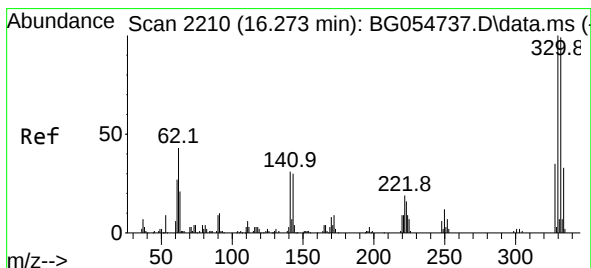
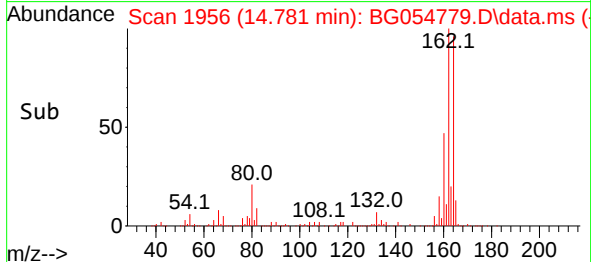
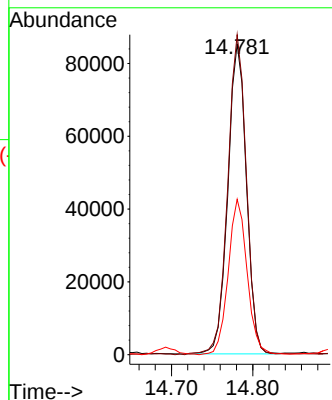
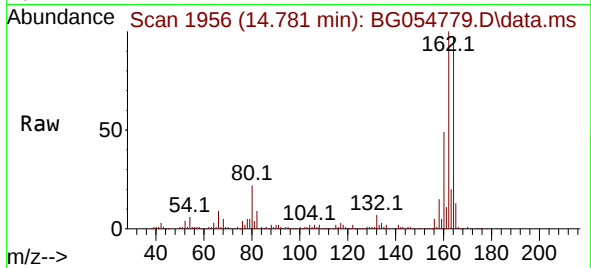




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.781 min Scan# 1956  
Delta R.T. -0.006 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

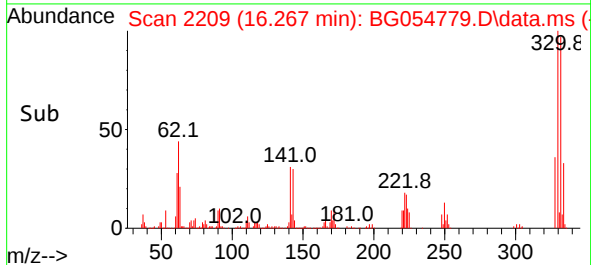
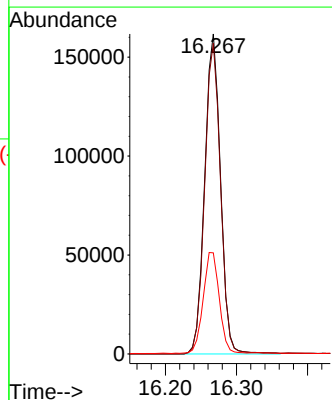
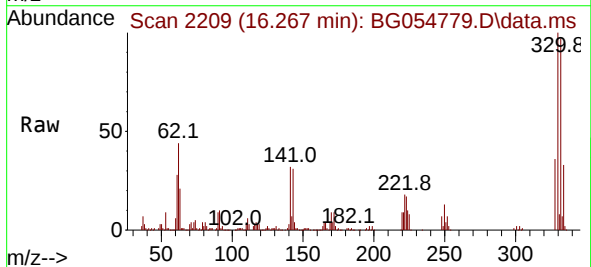
Instrument :  
BNA\_G  
ClientSampleId :  
MW-38

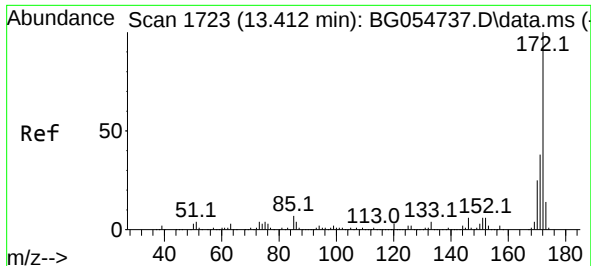
Tgt Ion:164 Resp: 134880  
Ion Ratio Lower Upper  
164 100  
162 103.0 83.0 124.4  
160 50.0 38.0 57.0



#42  
2,4,6-Tribromophenol  
Concen: 148.796 ng  
RT: 16.267 min Scan# 2209  
Delta R.T. -0.006 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

Tgt Ion:330 Resp: 250782  
Ion Ratio Lower Upper  
330 100  
332 97.0 79.8 119.6  
141 32.1 26.8 40.2

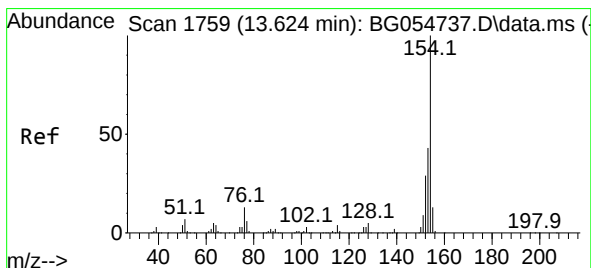
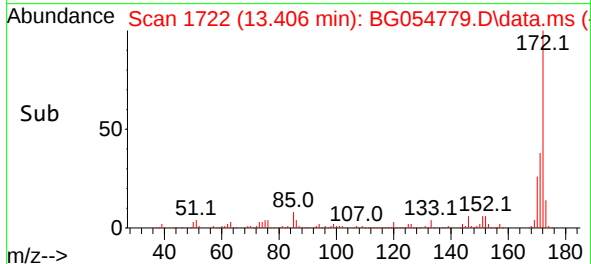
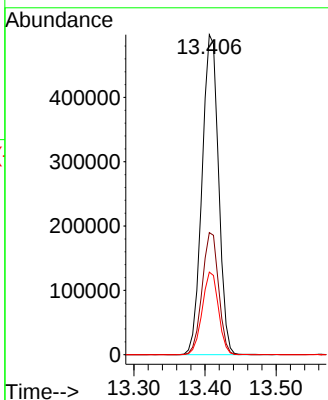
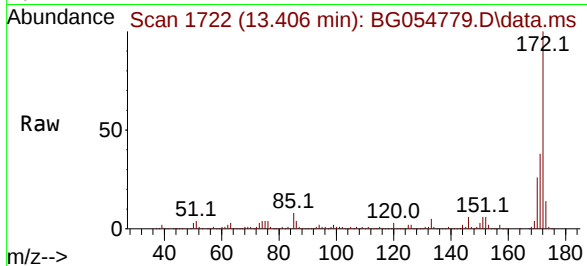




#45  
2-Fluorobiphenyl  
Concen: 89.729 ng  
RT: 13.406 min Scan# 1722  
Delta R.T. -0.006 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

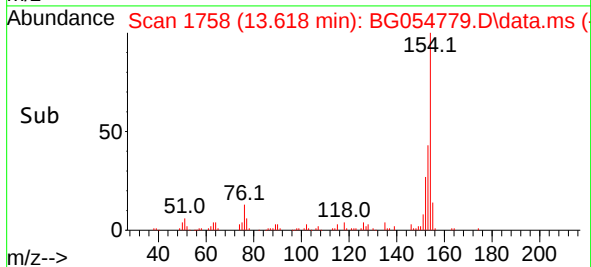
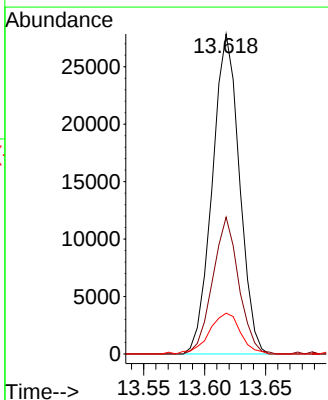
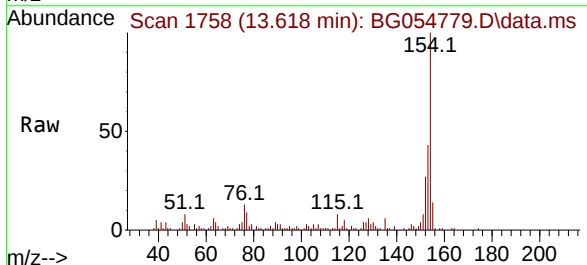
Instrument :  
BNA\_G  
ClientSampleId :  
MW-38

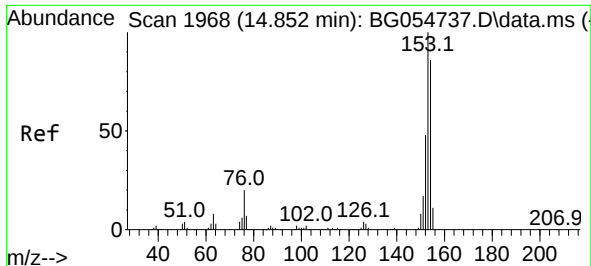
Tgt Ion:172 Resp: 805227  
Ion Ratio Lower Upper  
172 100  
171 38.2 31.2 46.8  
170 25.8 20.6 30.8



#46  
1,1'-Biphenyl  
Concen: 4.302 ng  
RT: 13.618 min Scan# 1758  
Delta R.T. -0.006 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

Tgt Ion:154 Resp: 43085  
Ion Ratio Lower Upper  
154 100  
153 42.7 22.2 62.2  
76 12.7 0.0 34.0

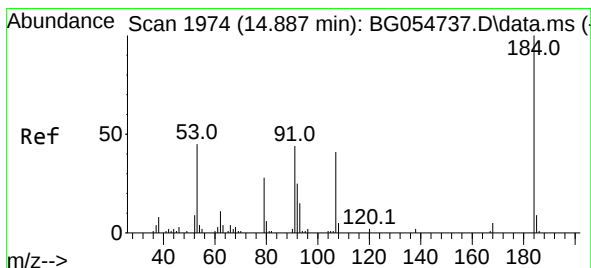
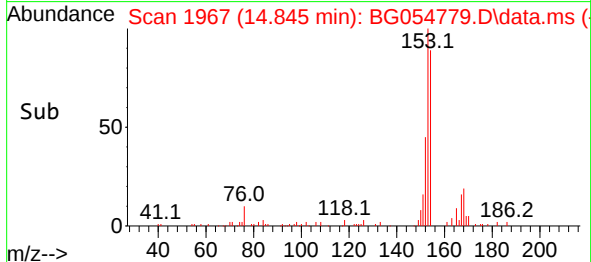
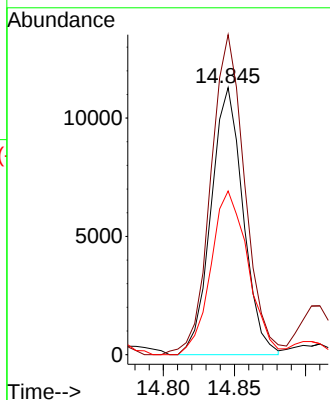
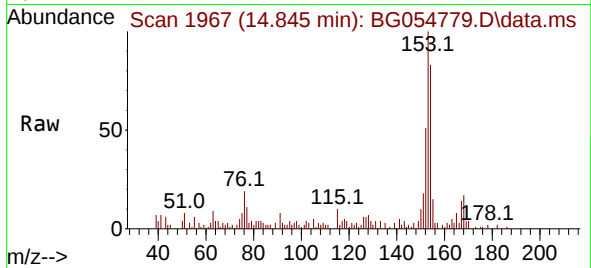




#52  
 Acenaphthene  
 Concen: 2.197 ng  
 RT: 14.845 min Scan# 1967  
 Delta R.T. -0.006 min  
 Lab File: BG054779.D  
 Acq: 29 Aug 2022 19:34

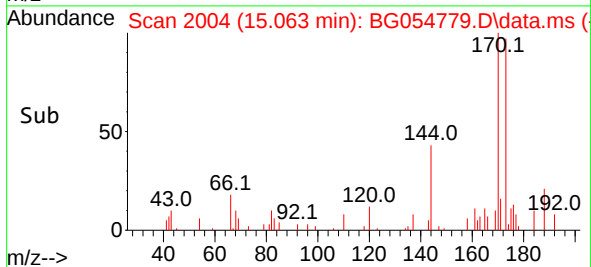
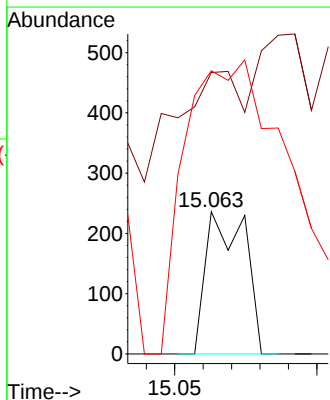
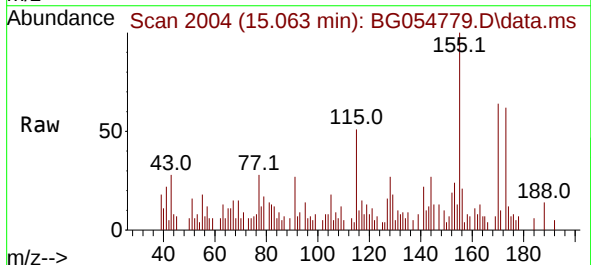
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-38

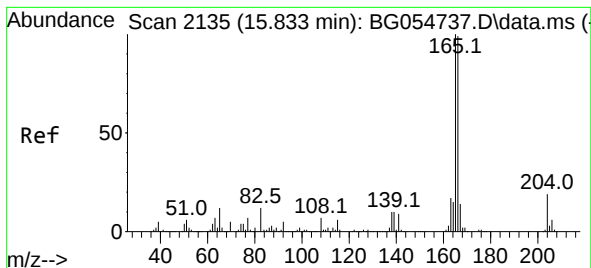
Tgt Ion:154 Resp: 17717  
 Ion Ratio Lower Upper  
 154 100  
 153 119.8 92.8 139.2  
 152 61.3 45.4 68.2



#54  
 2,4-Dinitrophenol  
 Concen: 6.872 ng  
 RT: 15.063 min Scan# 2004  
 Delta R.T. 0.176 min  
 Lab File: BG054779.D  
 Acq: 29 Aug 2022 19:34

Tgt Ion:184 Resp: 225  
 Ion Ratio Lower Upper  
 184 100  
 63 197.9 41.8 62.8#  
 154 199.2 45.2 67.8#





#58

Fluorene

Concen: 2.632 ng

RT: 15.827 min Scan# 2135

Delta R.T. -0.006 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

Instrument :

BNA\_G

ClientSampleId :

MW-38

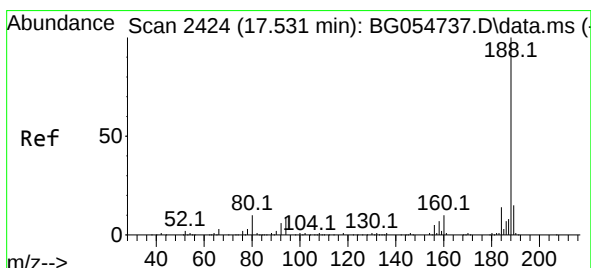
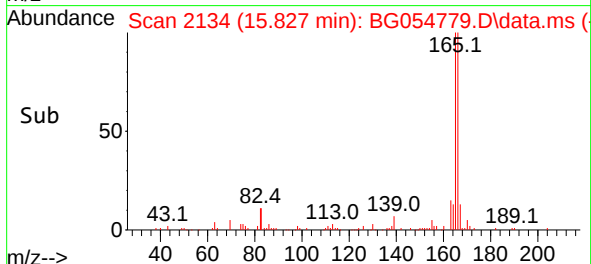
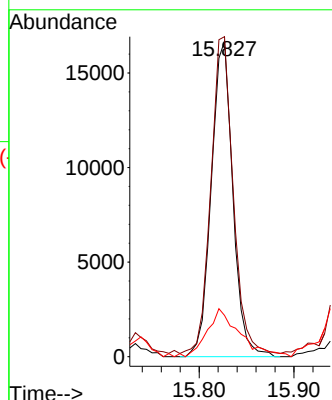
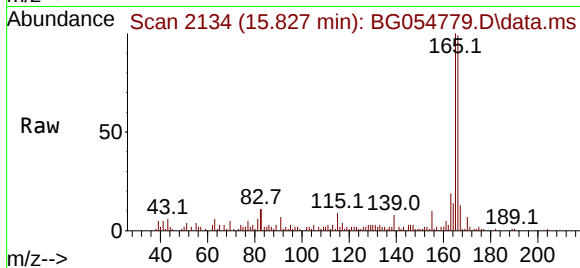
Tgt Ion:166 Resp: 26268

Ion Ratio Lower Upper

166 100

165 101.4 80.8 121.2

167 13.1 11.4 17.0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.525 min Scan# 2423

Delta R.T. -0.006 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

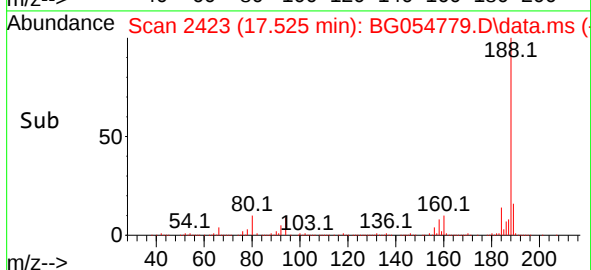
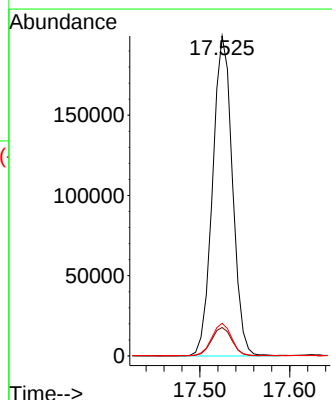
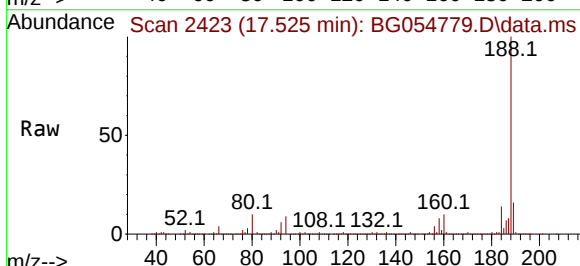
Tgt Ion:188 Resp: 305478

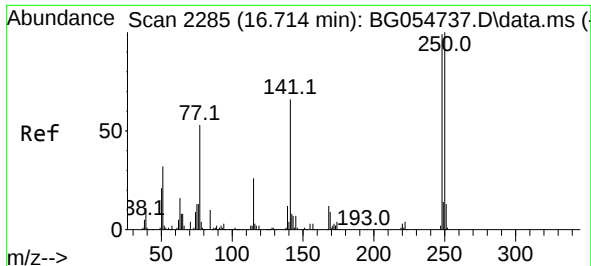
Ion Ratio Lower Upper

188 100

94 8.9 7.0 10.4

80 10.2 7.9 11.9

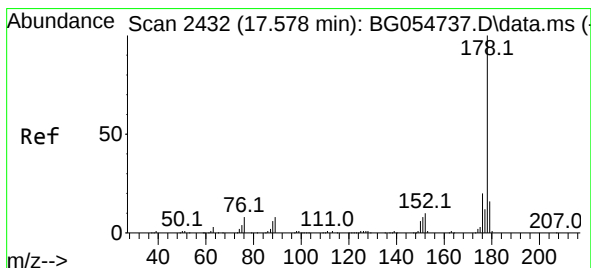
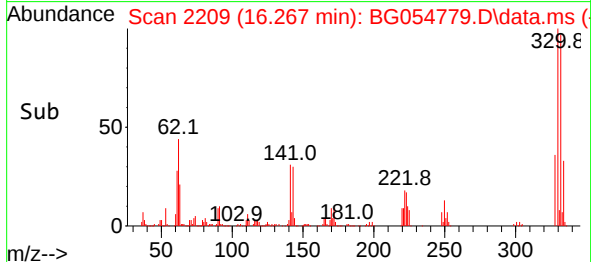
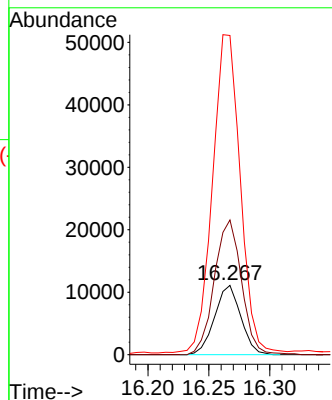
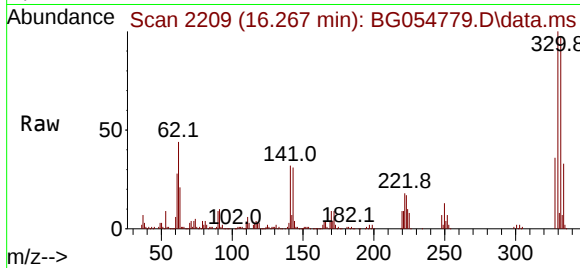




#67  
4-Bromophenyl-phenylether  
Concen: 4.939 ng  
RT: 16.267 min Scan# 21  
Delta R.T. -0.447 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

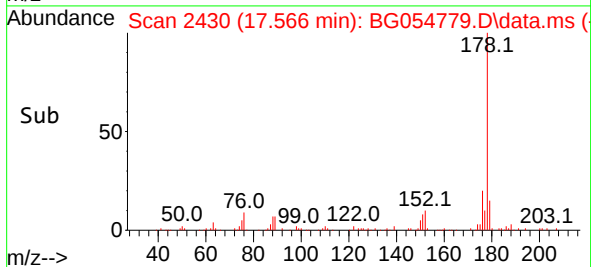
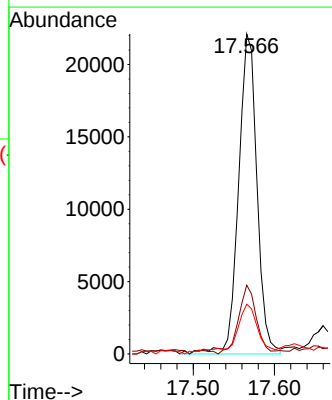
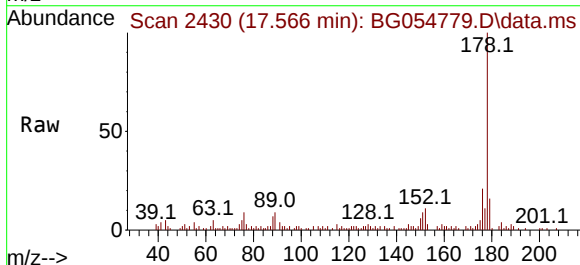
Instrument :  
BNA\_G  
ClientSampleId :  
MW-38

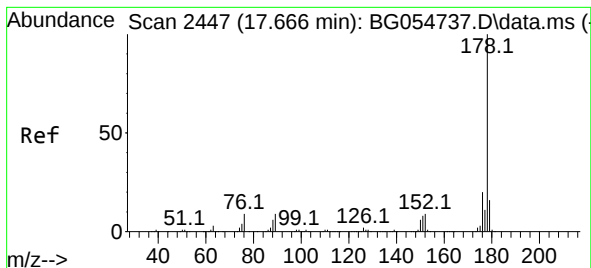
Tgt Ion:248 Resp: 16565  
Ion Ratio Lower Upper  
248 100  
250 194.4 78.8 118.2#  
141 460.4 51.9 77.9#



#71  
Phenanthrene  
Concen: 2.140 ng  
RT: 17.566 min Scan# 2430  
Delta R.T. -0.012 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

Tgt Ion:178 Resp: 34830  
Ion Ratio Lower Upper  
178 100  
176 21.5 16.6 25.0  
179 15.6 12.8 19.2





#72

Anthracene

Concen: 2.201 ng

RT: 17.566 min Scan# 2447

Delta R.T. -0.100 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

Instrument :

BNA\_G

ClientSampleId :

MW-38

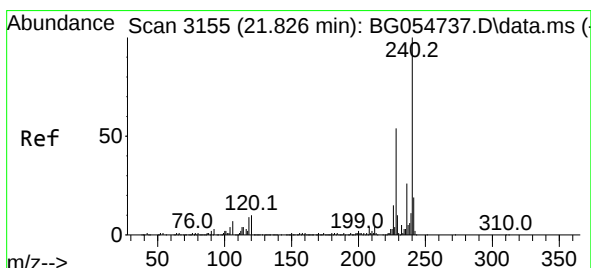
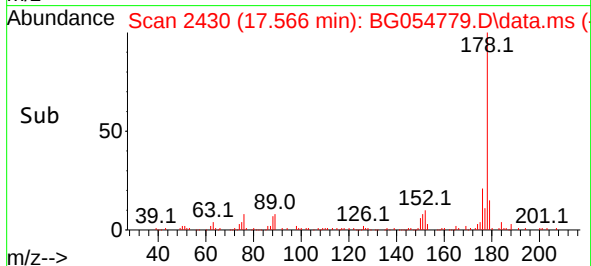
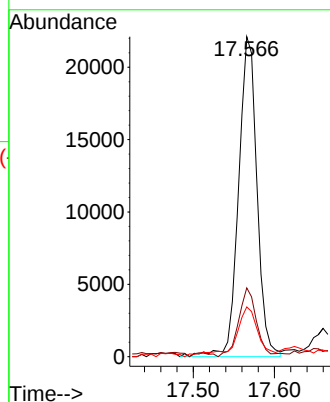
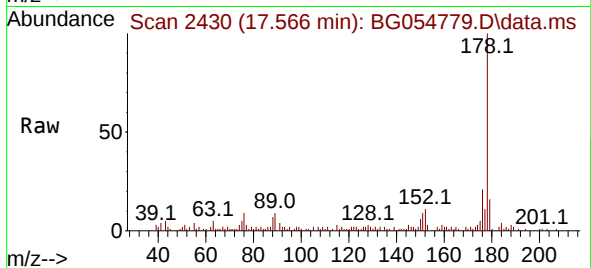
Tgt Ion:178 Resp: 34830

Ion Ratio Lower Upper

178 100

176 21.5 16.2 24.4

179 15.6 12.9 19.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.814 min Scan# 3153

Delta R.T. -0.012 min

Lab File: BG054779.D

Acq: 29 Aug 2022 19:34

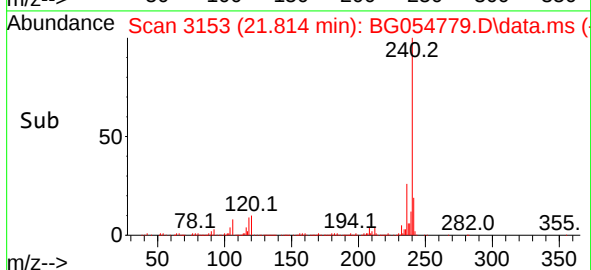
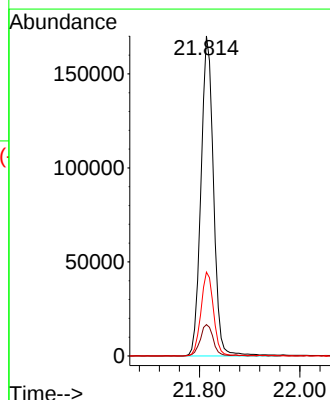
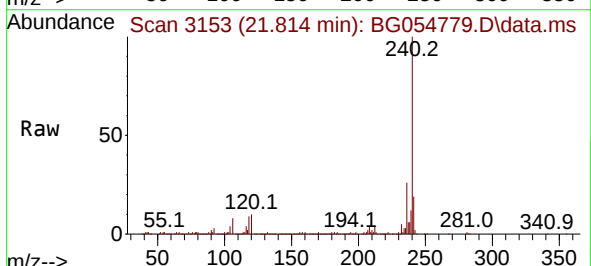
Tgt Ion:240 Resp: 295722

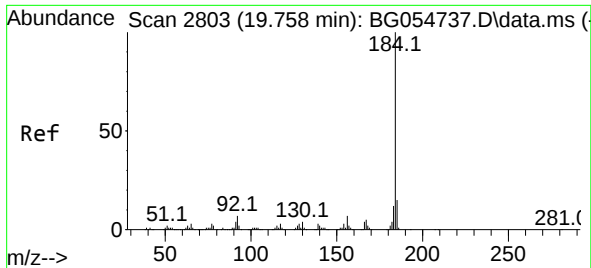
Ion Ratio Lower Upper

240 100

120 9.8 8.2 12.4

236 26.2 21.2 31.8

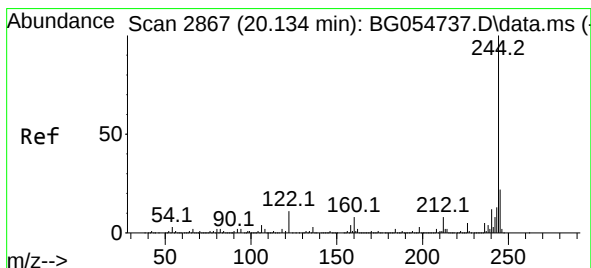
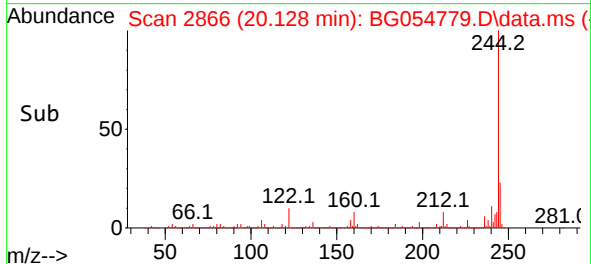
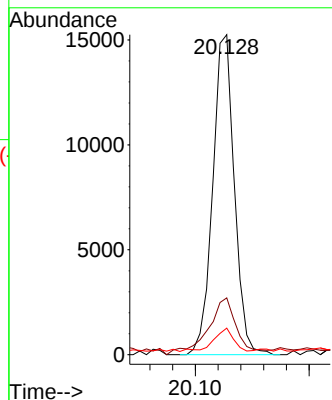
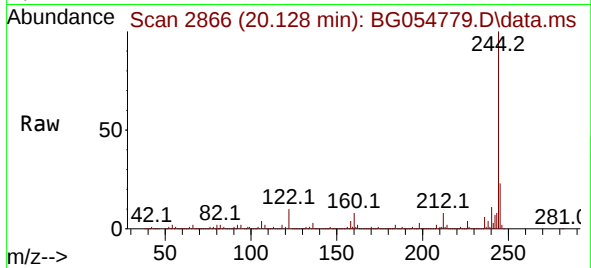




#77  
Benzidine  
Concen: 2.749 ng  
RT: 20.128 min Scan# 2866  
Delta R.T. 0.370 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

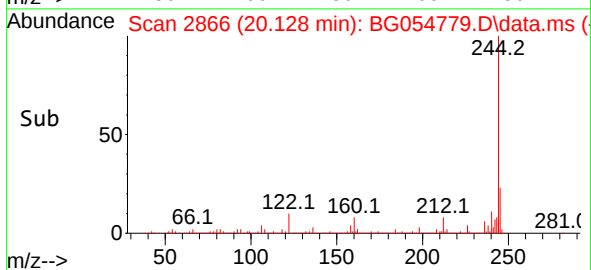
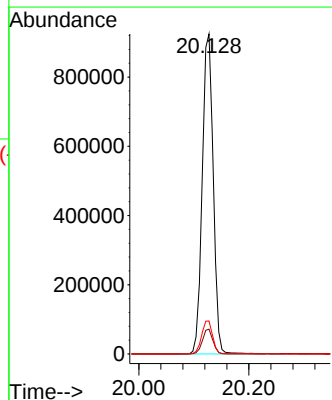
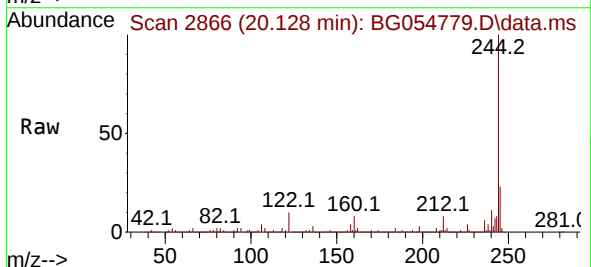
Instrument :  
BNA\_G  
ClientSampleId :  
MW-38

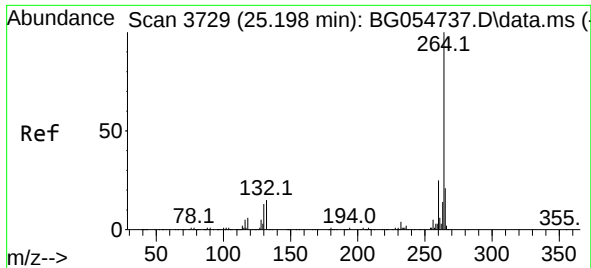
Tgt Ion:184 Resp: 20136  
Ion Ratio Lower Upper  
184 100  
185 17.8 11.4 17.0#  
183 8.3 9.8 14.8#



#79  
Terphenyl-d14  
Concen: 86.030 ng  
RT: 20.128 min Scan# 2866  
Delta R.T. -0.006 min  
Lab File: BG054779.D  
Acq: 29 Aug 2022 19:34

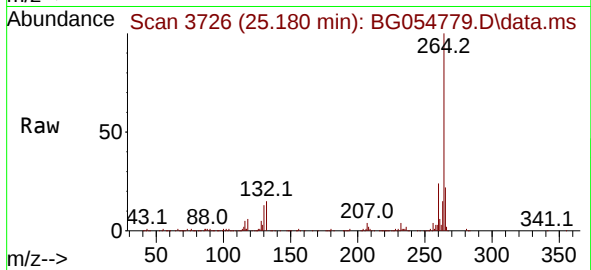
Tgt Ion:244 Resp: 1283989  
Ion Ratio Lower Upper  
244 100  
212 7.7 6.2 9.2  
122 10.3 9.0 13.6





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.180 min Scan# 31  
 Delta R.T. -0.018 min  
 Lab File: BG054779.D  
 Acq: 29 Aug 2022 19:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-38



Tgt Ion:264 Resp: 311049  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.9 29.9  
 265 22.0 16.9 25.3

