

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062323\  
 Data File : BG057840.D  
 Acq On : 23 Jun 2023 13:22  
 Operator : CG/JU  
 Sample : 03291-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-6A

Quant Time: Jun 23 14:40:55 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG061923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 20 03:40:38 2023  
 Response via : Initial Calibration

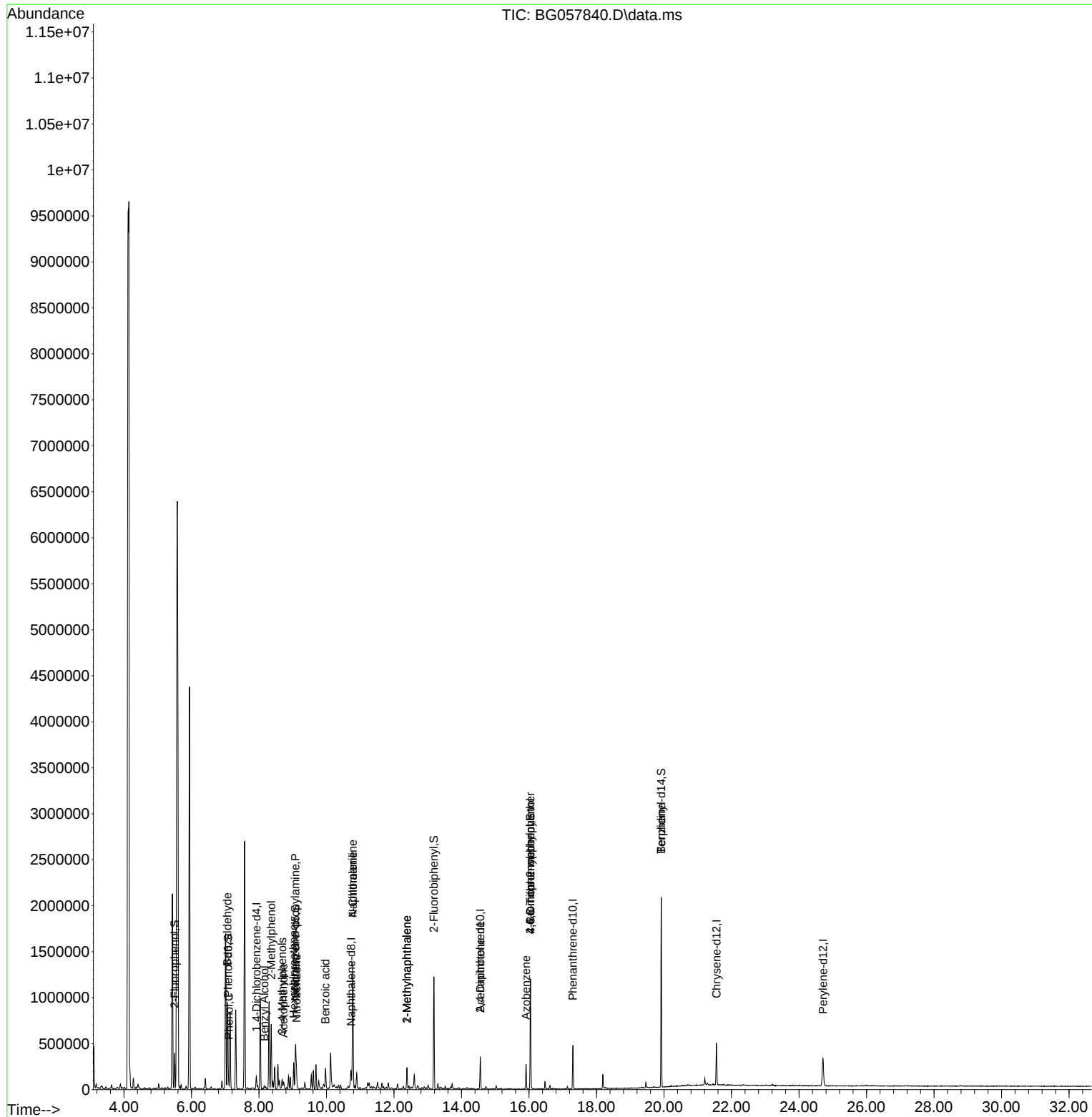
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.924  | 152  | 37110    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.727 | 136  | 162744   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.557 | 164  | 121495   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.301 | 188  | 298165   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.555 | 240  | 260085   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.710 | 264  | 320419   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.503  | 112  | 159847   | 66.416  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.084  | 99   | 134739   | 36.690  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.081  | 82   | 286570   | 90.374  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 16.044 | 330  | 252191   | 149.012 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.183 | 172  | 653014   | 81.522  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.922 | 244  | 1134386  | 81.329  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 9) Benzaldehyde               | 7.066  | 77   | 57471    | 24.889  | ng    | # 1      |
| 10) Phenol                    | 7.107  | 94   | 19734    | 5.458   | ng    | 97       |
| 15) Benzyl Alcohol            | 8.159  | 79   | 13692    | 4.876   | ng    | 99       |
| 17) 2-Methylphenol            | 8.365  | 107  | 221530   | 83.300  | ng    | 98       |
| 18) Hexachloroethane          | 9.029  | 117  | 41215    | 45.781  | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 9.081  | 70   | 36436    | 14.231  | ng    | # 75     |
| 20) 3+4-Methylphenols         | 8.688  | 107  | 49972    | 13.603  | ng    | 97       |
| 22) Acetophenone              | 8.729  | 105  | 67400    | 14.769  | ng    | # 63     |
| 24) Nitrobenzene              | 9.111  | 77   | 8183     | 2.480   | ng    | # 1      |
| 31) Naphthalene               | 10.779 | 128  | 1111029  | 128.270 | ng    | 98       |
| 32) Benzoic acid              | 9.969  | 122  | 15799    | 8.255   | ng    | # 74     |
| 33) 4-Chloroaniline           | 10.779 | 127  | 150791   | 37.572  | ng    | # 33     |
| 37) 2-Methylnaphthalene       | 12.384 | 142  | 104074   | 16.484  | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.384 | 142  | 104074   | 17.463  | ng    | 99       |
| 57) 2,4-Dinitrotoluene        | 14.557 | 165  | 15866    | 6.809   | ng    | # 21     |
| 63) Azobenzene                | 15.915 | 77   | 77873    | 7.952   | ng    | # 1      |
| 65) 4,6-Dinitro-2-methylph... | 16.044 | 198  | 535      | 5.659   | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 16.044 | 248  | 15975    | 5.052   | ng    | # 1      |
| 77) Benzidine                 | 19.922 | 184  | 14659    | 2.404   | ng    | # 93     |
| -----                         |        |      |          |         |       |          |

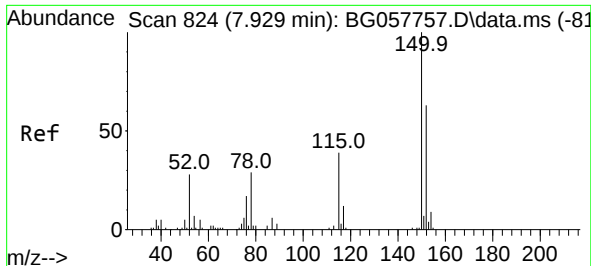
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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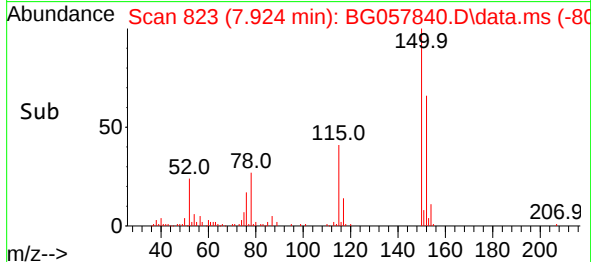
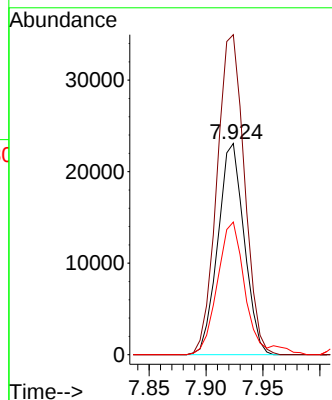
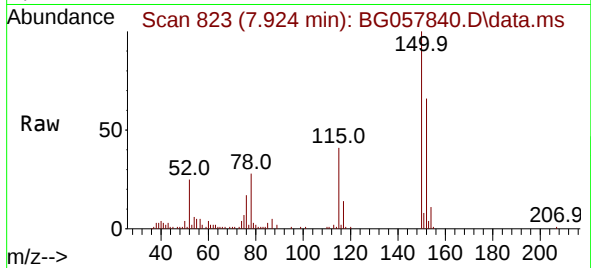




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.924 min Scan# 81  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

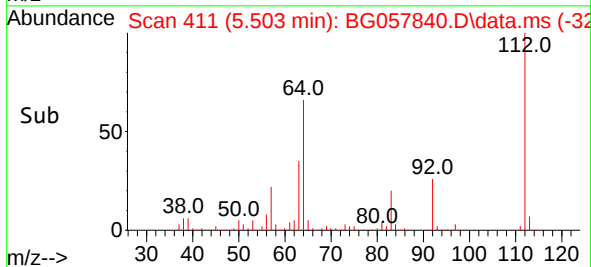
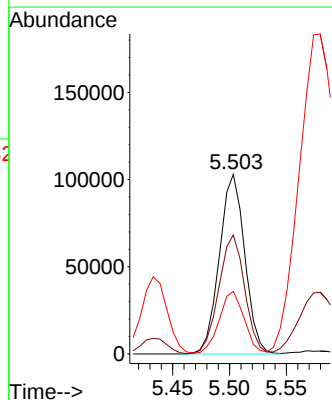
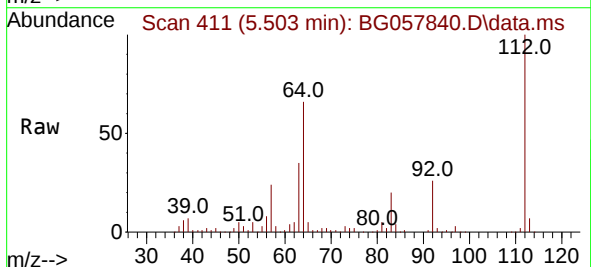
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

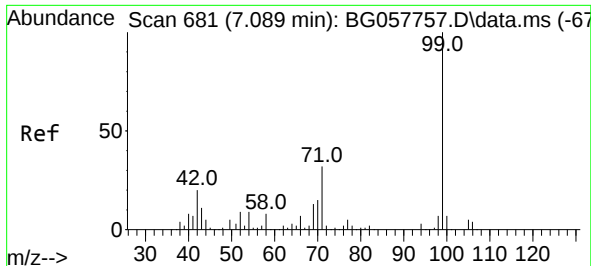
Tgt Ion:152 Resp: 37110  
Ion Ratio Lower Upper  
152 100  
150 151.5 126.6 189.8  
115 62.8 48.9 73.3



#5  
2-Fluorophenol  
Concen: 66.416 ng  
RT: 5.503 min Scan# 411  
Delta R.T. 0.006 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion:112 Resp: 159847  
Ion Ratio Lower Upper  
112 100  
64 66.3 62.1 93.1  
63 34.8 31.5 47.3

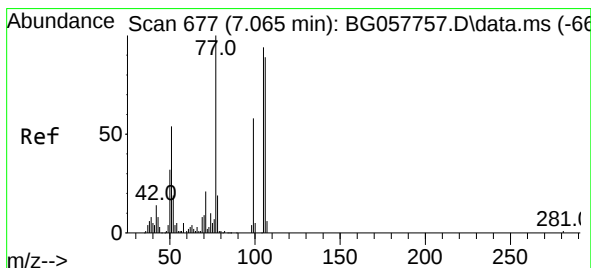
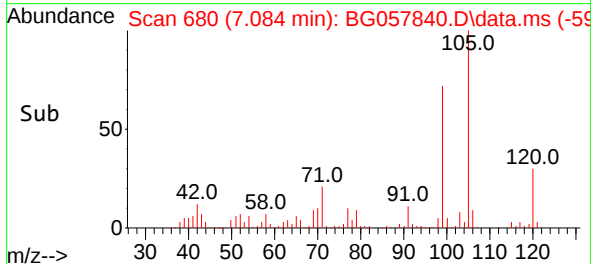
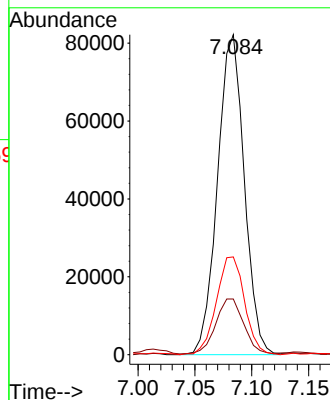
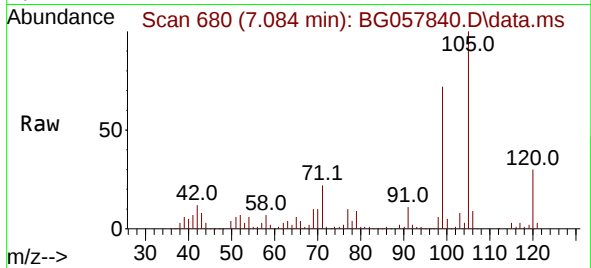




#7  
Phenol-d6  
Concen: 36.690 ng  
RT: 7.084 min Scan# 681  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

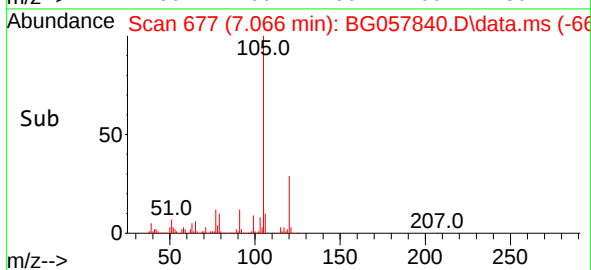
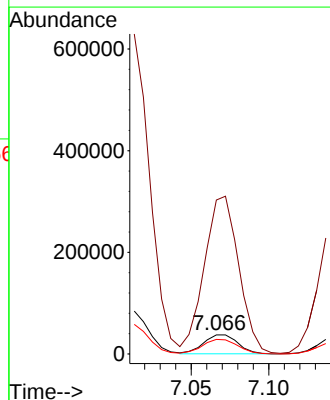
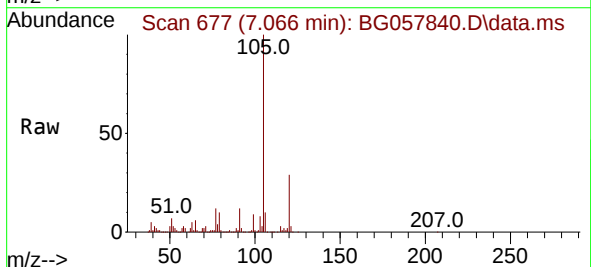
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

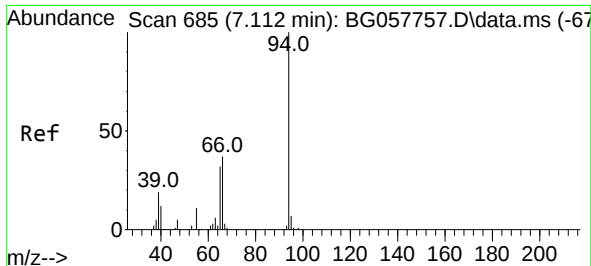
Tgt Ion: 99 Resp: 134739  
Ion Ratio Lower Upper  
99 100  
42 17.4 16.4 24.6  
71 30.5 25.8 38.6



#9  
Benzaldehyde  
Concen: 24.889 ng  
RT: 7.066 min Scan# 677  
Delta R.T. 0.001 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion: 77 Resp: 57471  
Ion Ratio Lower Upper  
77 100  
105 805.3 73.7 113.7#  
106 76.6 69.0 109.0

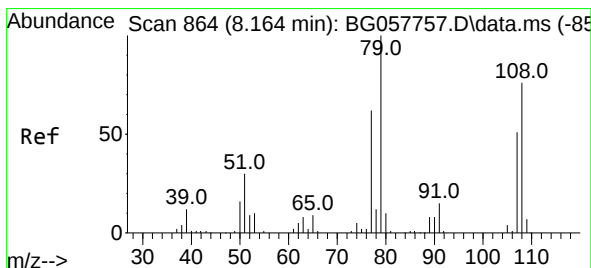
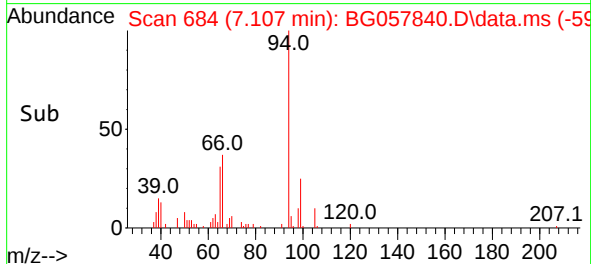
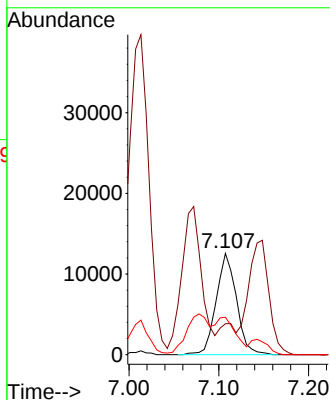
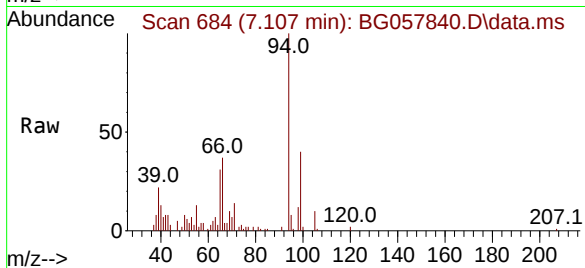




#10  
Phenol  
Concen: 5.458 ng  
RT: 7.107 min Scan# 610  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

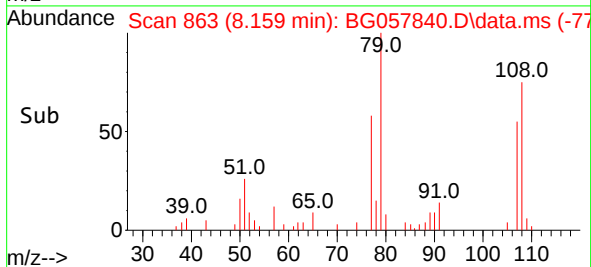
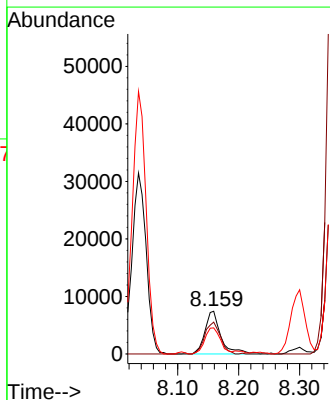
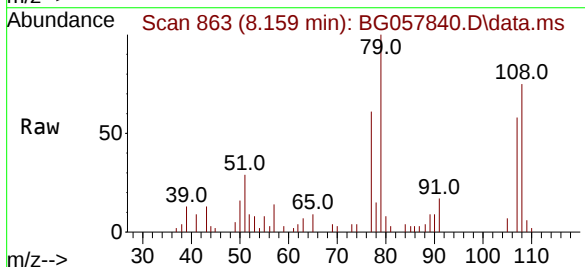
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

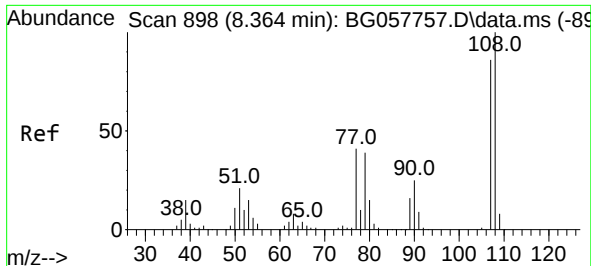
Tgt Ion: 94 Resp: 19734  
Ion Ratio Lower Upper  
94 100  
65 30.5 12.2 52.2  
66 37.0 18.3 58.3



#15  
Benzyl Alcohol  
Concen: 4.876 ng  
RT: 8.159 min Scan# 863  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion: 79 Resp: 13692  
Ion Ratio Lower Upper  
79 100  
108 74.6 60.5 90.7  
77 61.1 49.3 73.9

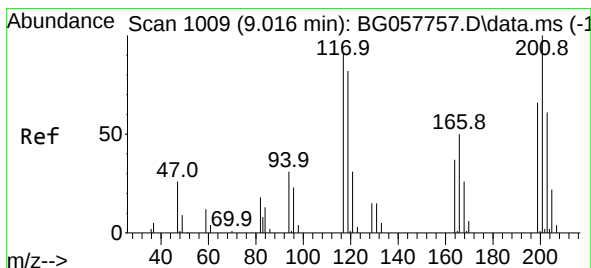
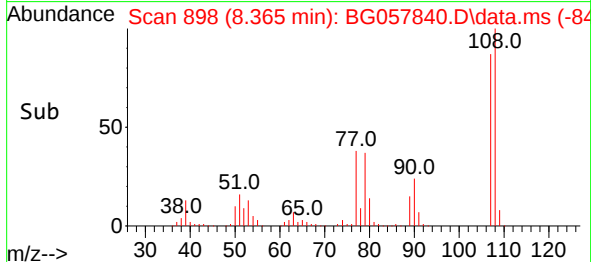
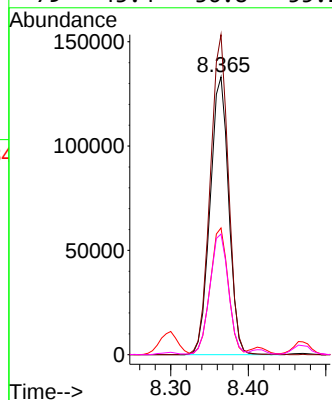
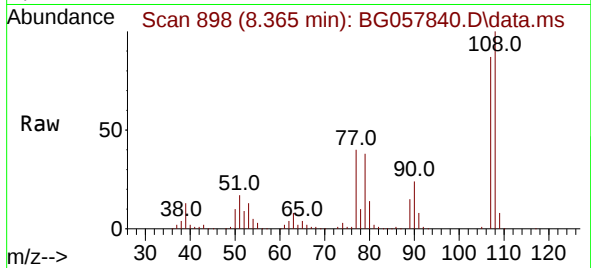




#17  
2-Methylphenol  
Concen: 83.300 ng  
RT: 8.365 min Scan# 898  
Delta R.T. 0.001 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

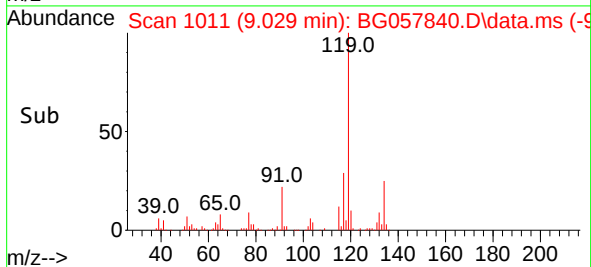
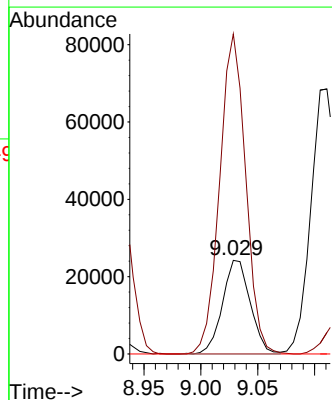
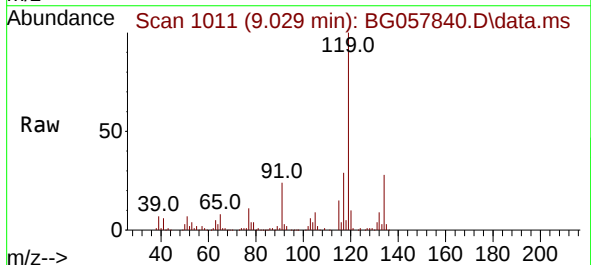
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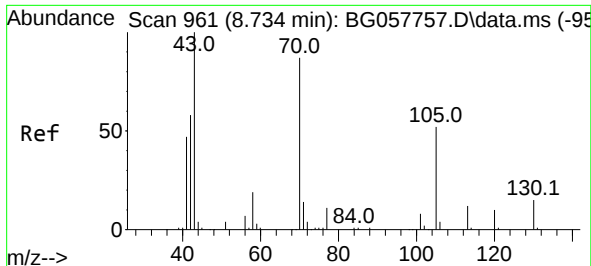
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|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 221530 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 115.2 | 93.2  | 139.8  |
| 77       | 45.6  | 37.8  | 56.8   |
| 79       | 43.4  | 36.8  | 55.2   |



#18  
Hexachloroethane  
Concen: 45.781 ng  
RT: 9.029 min Scan# 1011  
Delta R.T. 0.012 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 41215  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 341.8 | 72.3  | 108.5# |
| 201      | 0.0   | 87.8  | 131.8# |

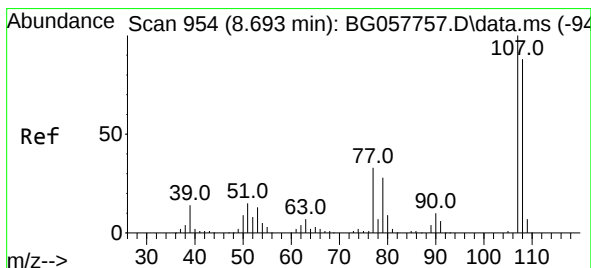
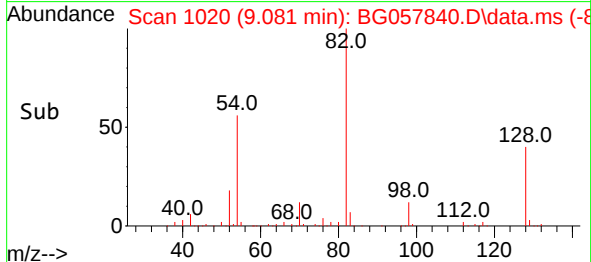
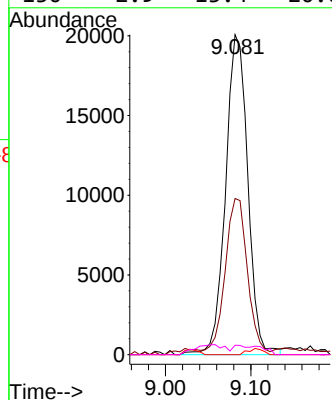
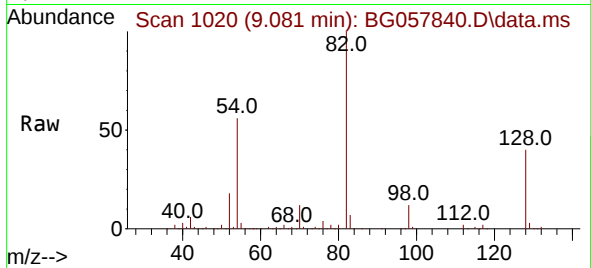




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.231 ng  
RT: 9.081 min Scan# 1020  
Delta R.T. 0.347 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

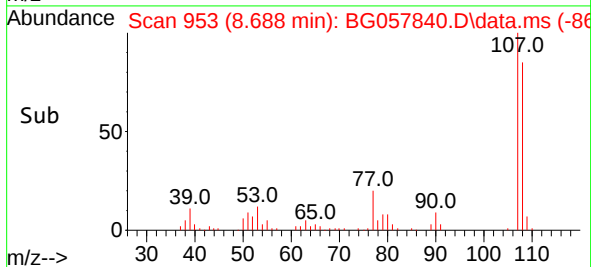
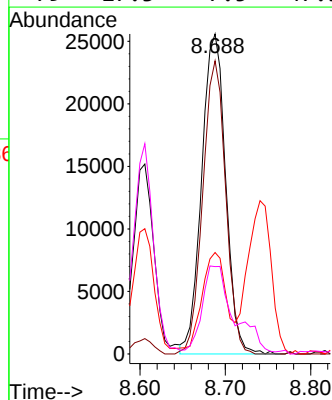
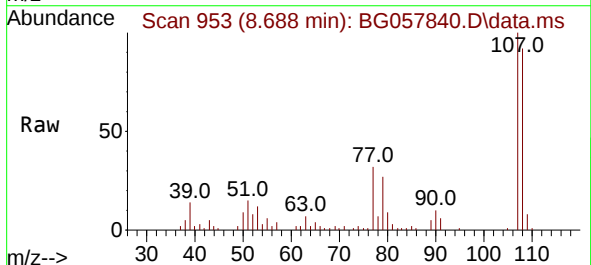
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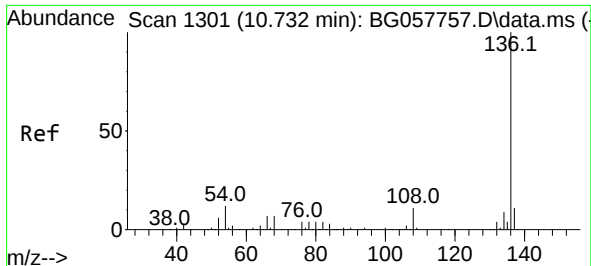
Tgt Ion: 70 Resp: 36436  
Ion Ratio Lower Upper  
70 100  
42 48.8 54.2 81.2#  
101 0.0 7.4 11.0#  
130 2.9 13.4 20.0#



#20  
3+4-Methylphenols  
Concen: 13.603 ng  
RT: 8.688 min Scan# 953  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion: 107 Resp: 49972  
Ion Ratio Lower Upper  
107 100  
108 91.6 67.7 107.7  
77 31.7 13.3 53.3  
79 27.3 7.5 47.5

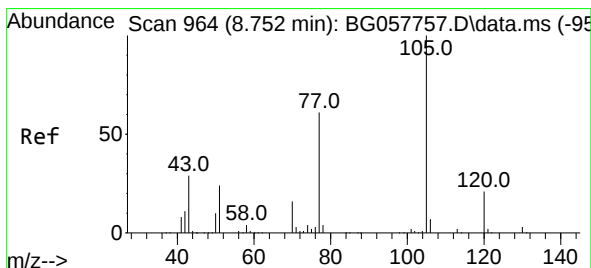
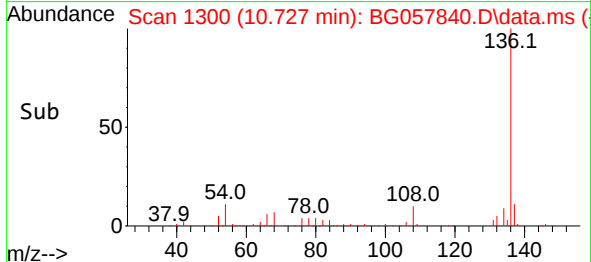
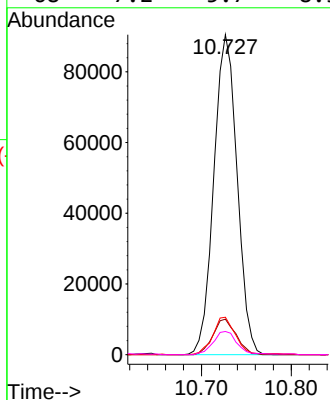
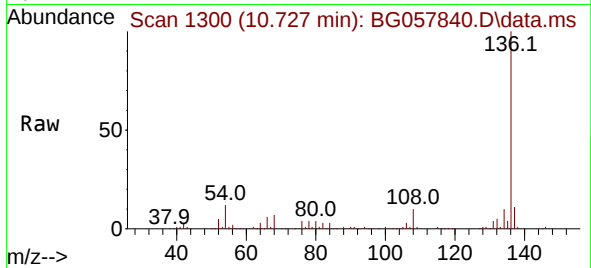




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.727 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

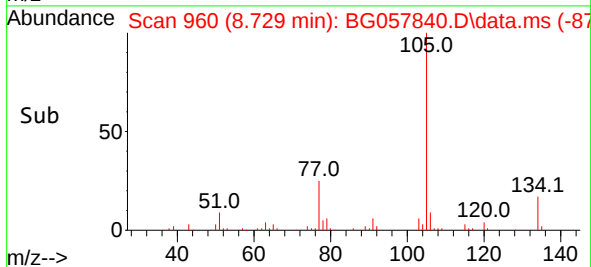
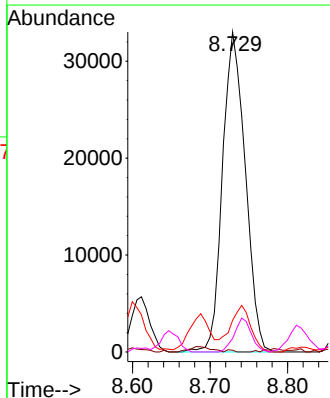
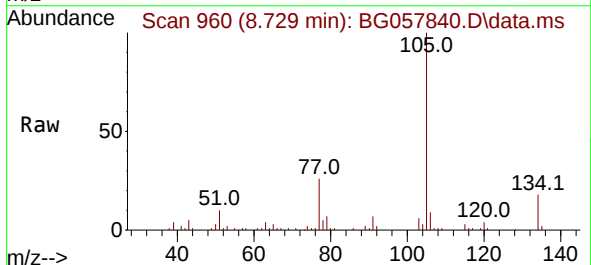
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

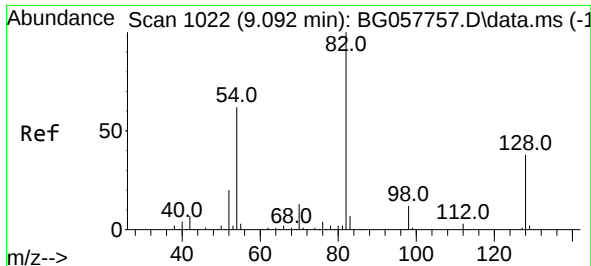
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|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 162744 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 8.5   | 12.7   |
| 54        | 11.7  | 9.5   | 14.3   |
| 68        | 7.2   | 5.7   | 8.5    |



#22  
Acetophenone  
Concen: 14.769 ng  
RT: 8.729 min Scan# 960  
Delta R.T. -0.023 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 67400 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 71        | 0.6   | 2.4   | 3.6#  |
| 51        | 9.9   | 25.9  | 38.9# |
| 120       | 4.2   | 16.7  | 25.1# |

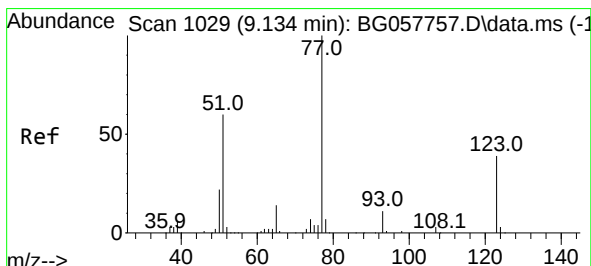
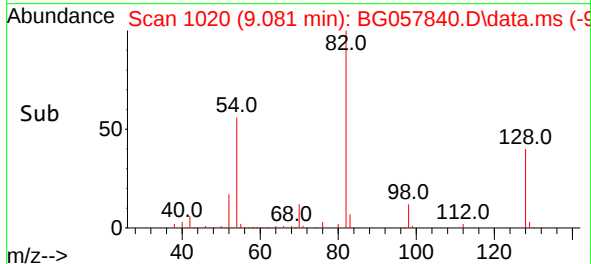
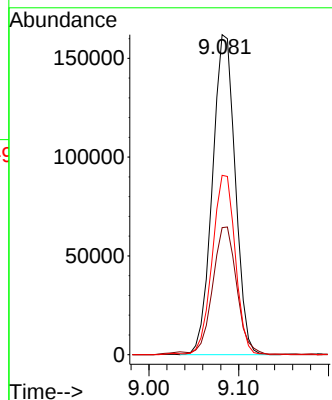
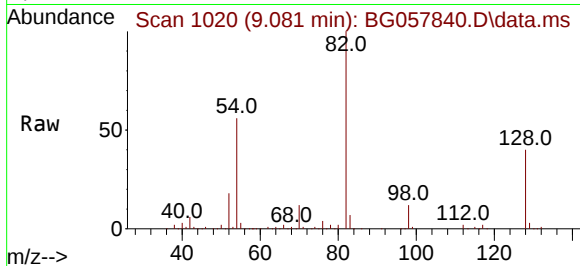




#23  
Nitrobenzene-d5  
Concen: 90.374 ng  
RT: 9.081 min Scan# 1020  
Delta R.T. -0.011 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

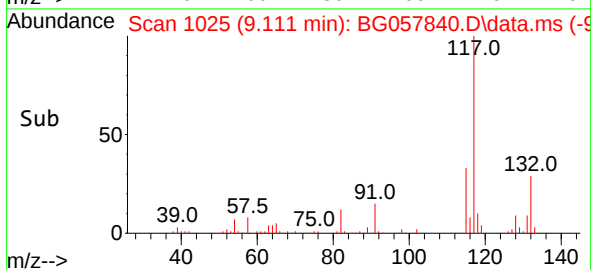
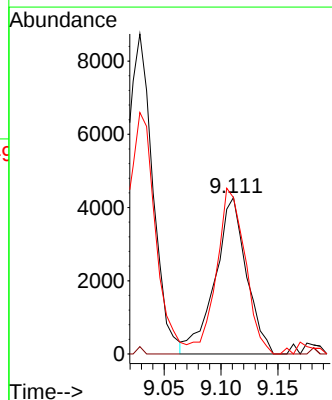
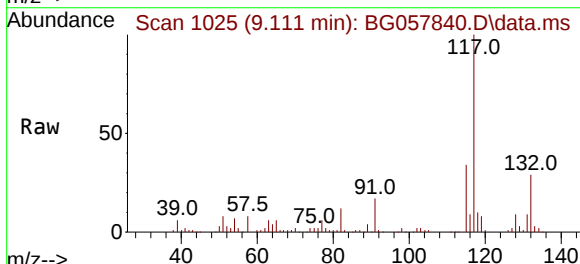
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

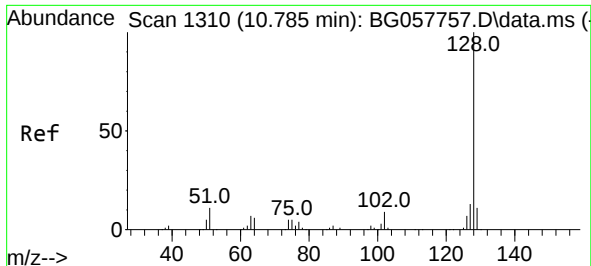
Tgt Ion: 82 Resp: 286570  
Ion Ratio Lower Upper  
82 100  
128 39.7 30.7 46.1  
54 56.1 49.6 74.4



#24  
Nitrobenzene  
Concen: 2.480 ng  
RT: 9.111 min Scan# 1025  
Delta R.T. -0.023 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion: 77 Resp: 8183  
Ion Ratio Lower Upper  
77 100  
123 0.0 31.4 47.2#  
65 99.9 11.2 16.8#

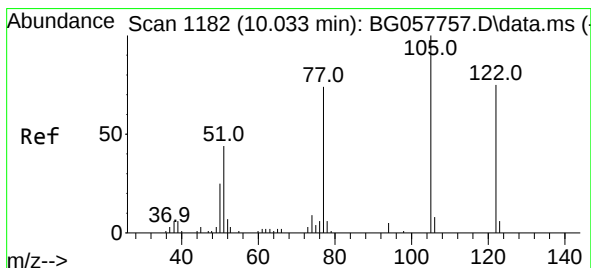
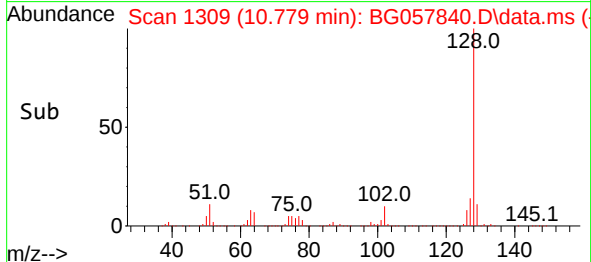
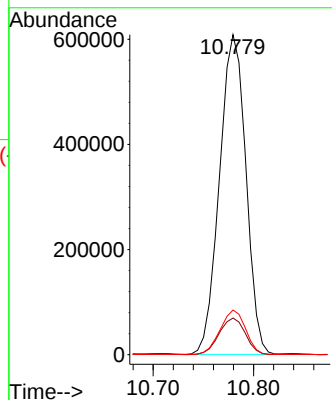
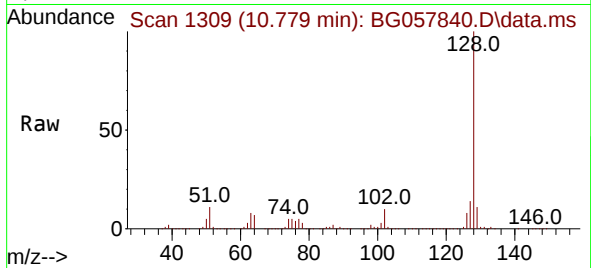




#31  
Naphthalene  
Concen: 128.270 ng  
RT: 10.779 min Scan# 1111029  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

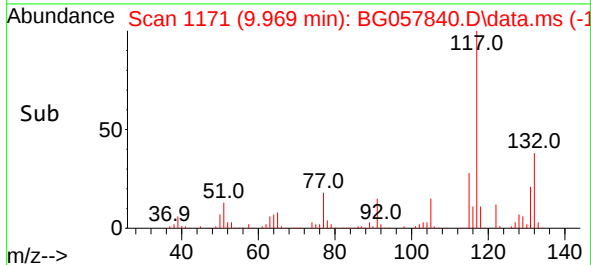
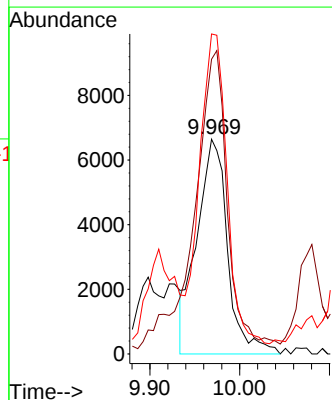
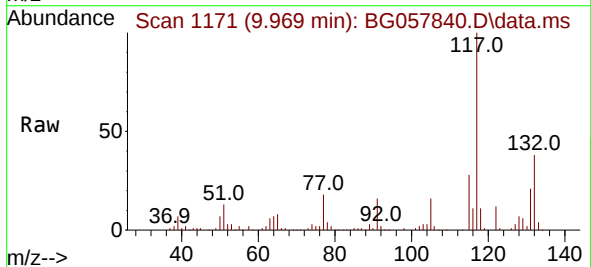
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

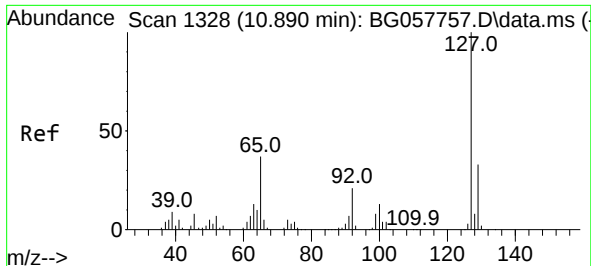
Tgt Ion:128 Resp: 1111029  
Ion Ratio Lower Upper  
128 100  
129 11.4 8.5 12.7  
127 14.0 10.7 16.1



#32  
Benzoic acid  
Concen: 8.255 ng  
RT: 9.969 min Scan# 1171  
Delta R.T. -0.064 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion:122 Resp: 15799  
Ion Ratio Lower Upper  
122 100  
105 137.3 110.1 150.1  
77 149.1 78.2 118.2#

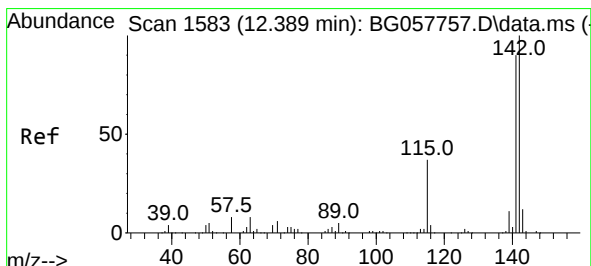
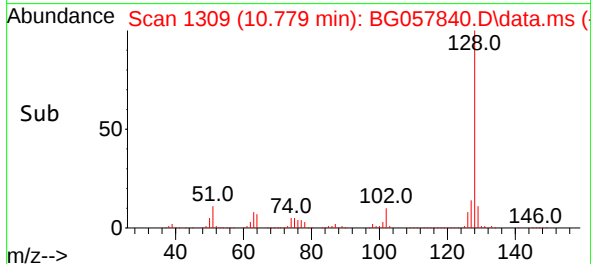
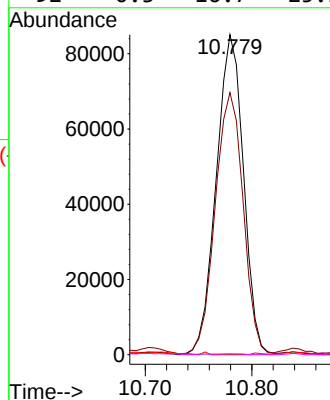
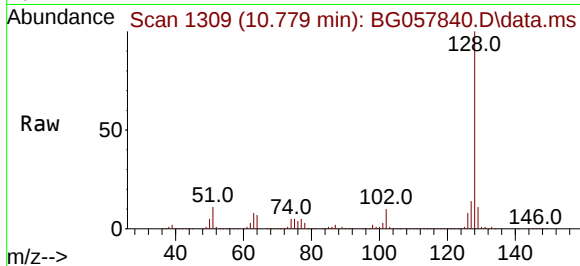




#33  
4-Chloroaniline  
Concen: 37.572 ng  
RT: 10.779 min Scan# 11  
Delta R.T. -0.111 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

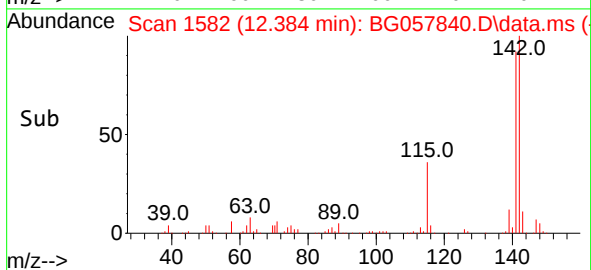
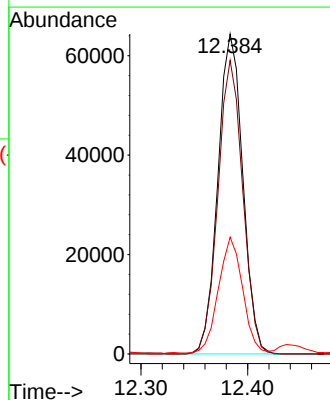
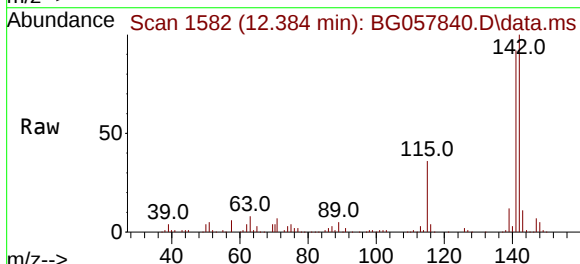
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

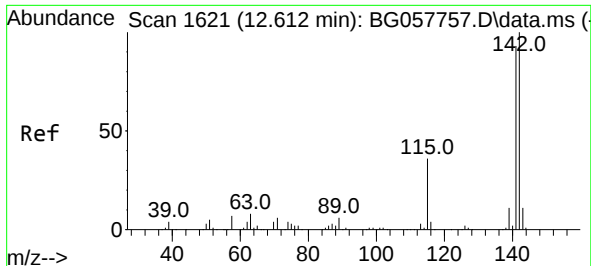
|             |              |
|-------------|--------------|
| Tgt Ion:127 | Resp: 150791 |
| Ion Ratio   | Lower Upper  |
| 127 100     |              |
| 129 81.9    | 26.6 40.0#   |
| 65 0.0      | 29.8 44.8#   |
| 92 0.3      | 16.7 25.1#   |



#37  
2-Methylnaphthalene  
Concen: 16.484 ng  
RT: 12.384 min Scan# 1582  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

|             |              |
|-------------|--------------|
| Tgt Ion:142 | Resp: 104074 |
| Ion Ratio   | Lower Upper  |
| 142 100     |              |
| 141 91.7    | 72.1 108.1   |
| 115 36.5    | 29.7 44.5    |





#38

1-Methylnaphthalene

Concen: 17.463 ng

RT: 12.384 min Scan# 1

Delta R.T. -0.228 min

Lab File: BG057840.D

Acq: 23 Jun 2023 13:22

Instrument :

BNA\_G

ClientSampleId :

MW-6A

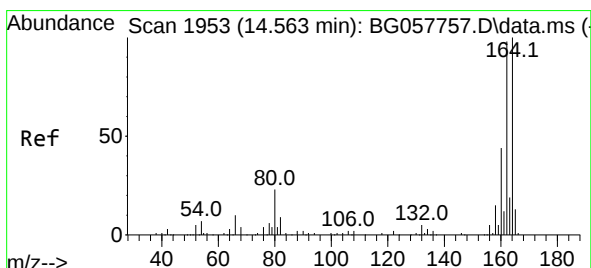
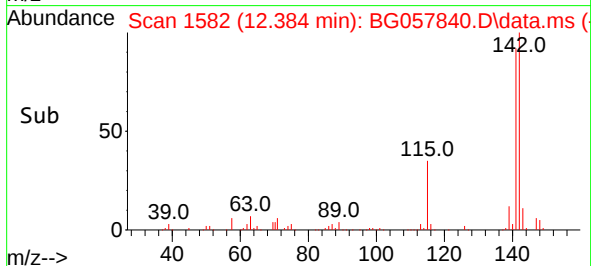
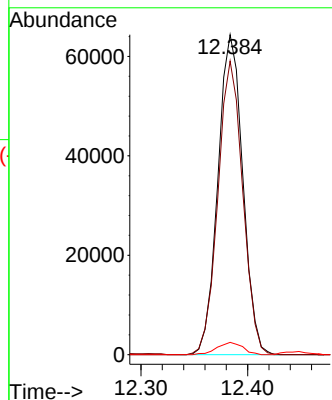
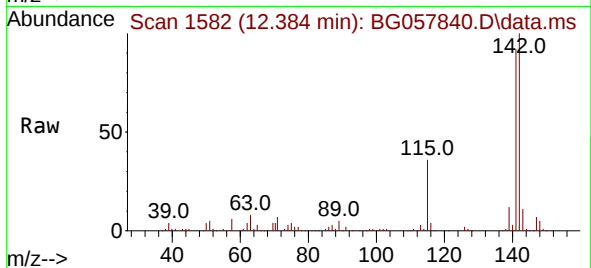
Tgt Ion:142 Resp: 104074

Ion Ratio Lower Upper

142 100

141 91.7 74.2 111.4

116 3.9 3.1 4.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.557 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BG057840.D

Acq: 23 Jun 2023 13:22

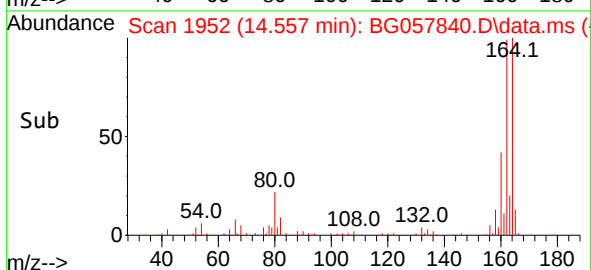
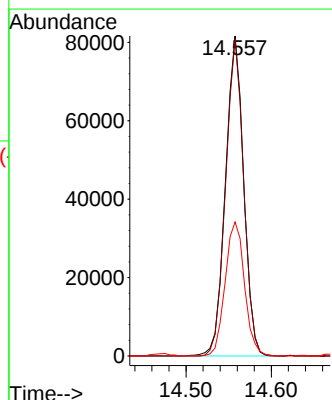
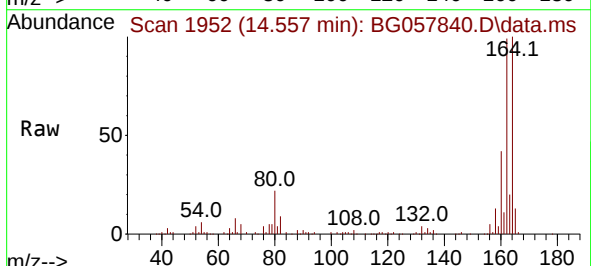
Tgt Ion:164 Resp: 121495

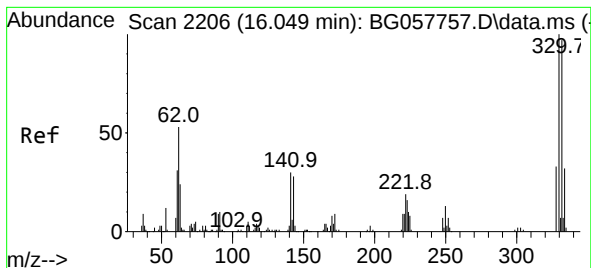
Ion Ratio Lower Upper

164 100

162 99.1 78.3 117.5

160 41.8 35.4 53.0

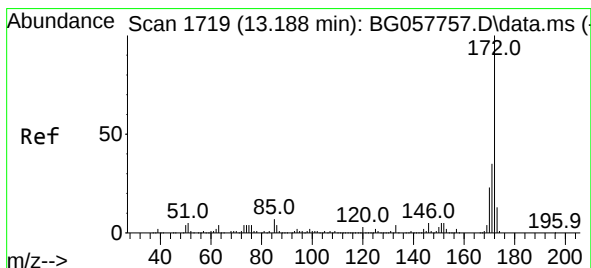
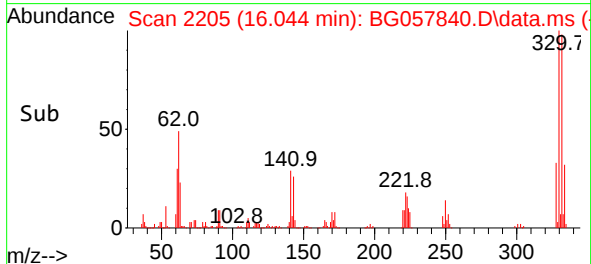
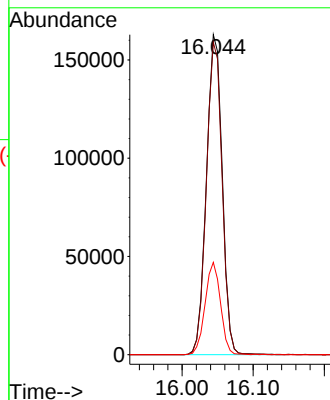
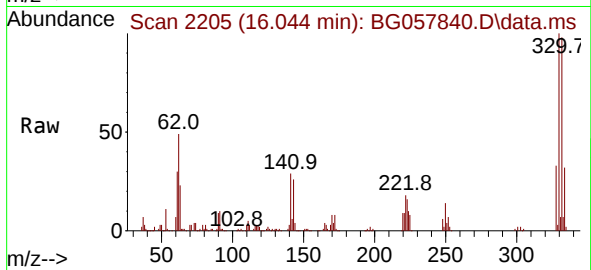




#42  
2,4,6-Tribromophenol  
Concen: 149.012 ng  
RT: 16.044 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

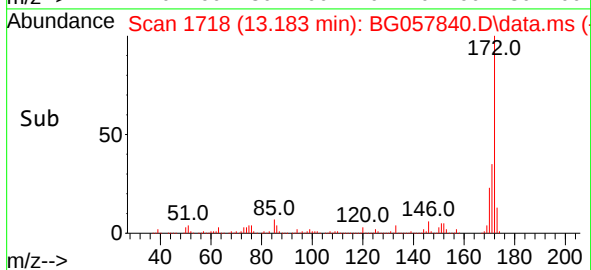
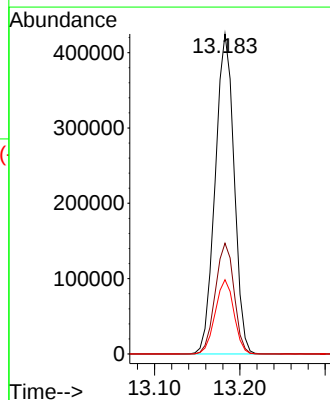
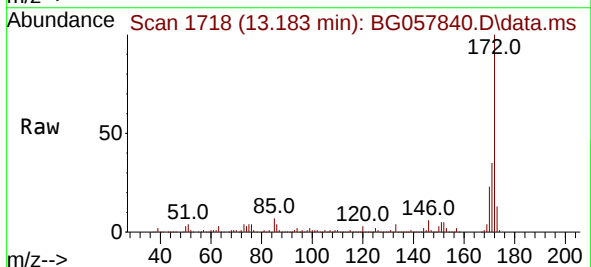
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

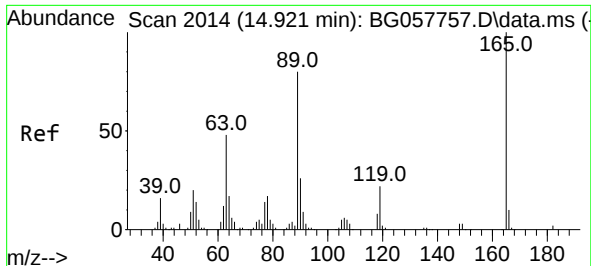
Tgt Ion:330 Resp: 252191  
Ion Ratio Lower Upper  
330 100  
332 97.2 76.6 115.0  
141 28.1 24.7 37.1



#45  
2-Fluorobiphenyl  
Concen: 81.522 ng  
RT: 13.183 min Scan# 1718  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion:172 Resp: 653014  
Ion Ratio Lower Upper  
172 100  
171 34.6 28.1 42.1  
170 23.2 18.6 27.8

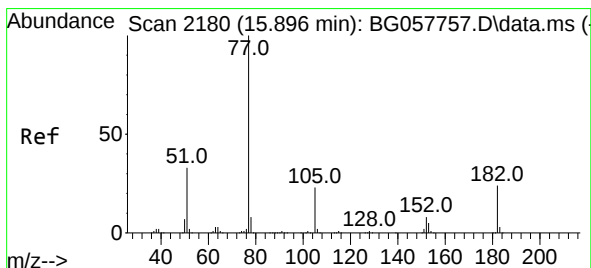
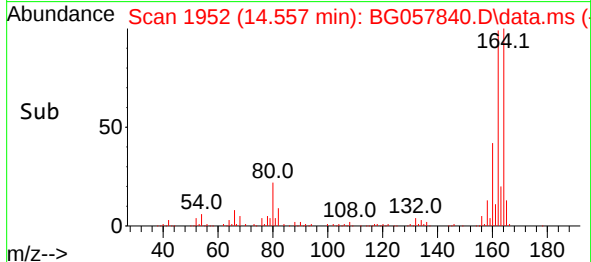
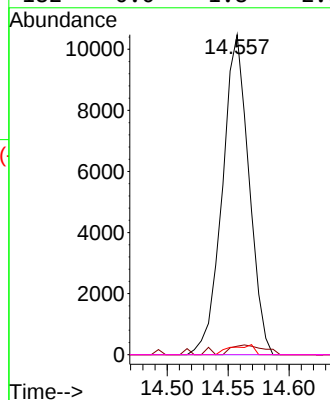
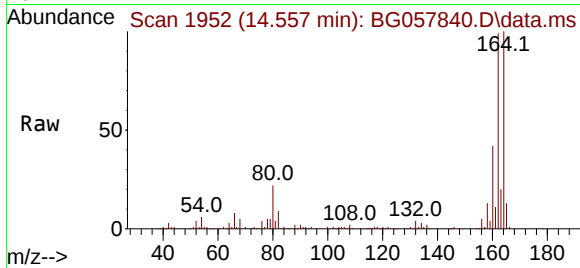




#57  
2,4-Dinitrotoluene  
Concen: 6.809 ng  
RT: 14.557 min Scan# 1952  
Delta R.T. -0.364 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

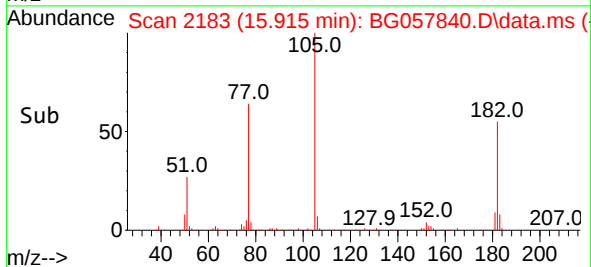
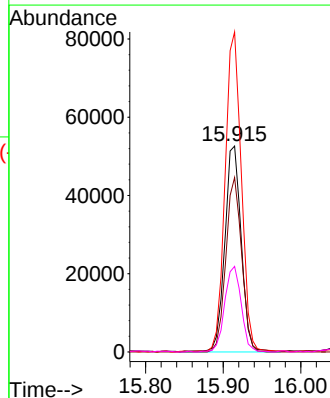
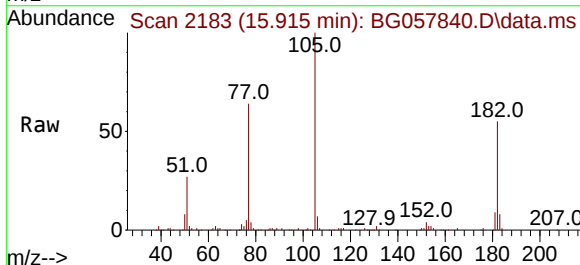
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

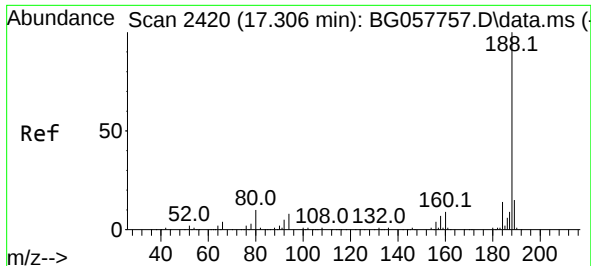
Tgt Ion:165 Resp: 15866  
Ion Ratio Lower Upper  
165 100  
63 2.7 38.6 58.0#  
89 2.3 63.7 95.5#  
182 0.0 1.8 2.6#



#63  
Azobenzene  
Concen: 7.952 ng  
RT: 15.915 min Scan# 2183  
Delta R.T. 0.018 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion: 77 Resp: 77873  
Ion Ratio Lower Upper  
77 100  
182 84.7 4.1 44.1#  
105 155.4 3.3 43.3#  
51 41.6 13.4 53.4

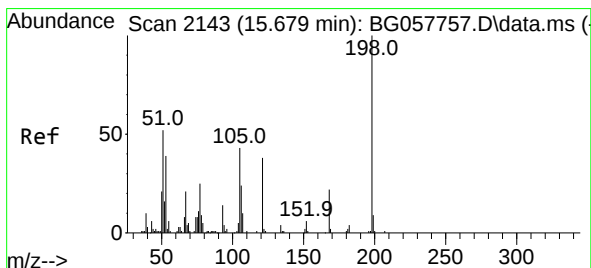
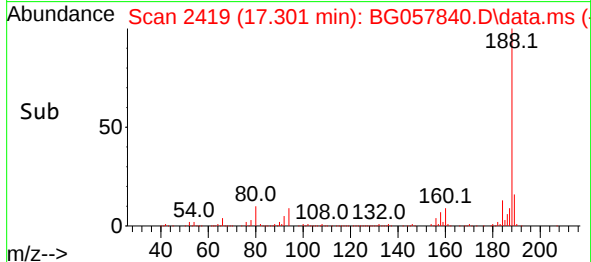
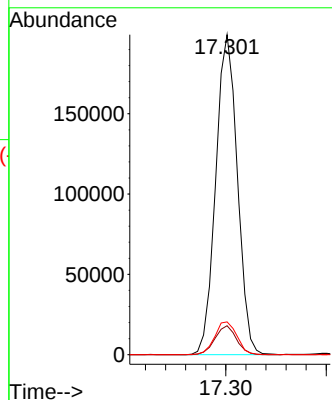
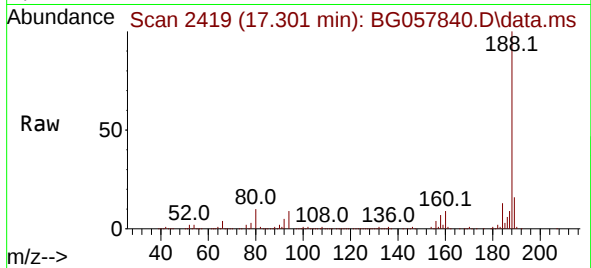




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.301 min Scan# 2419  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

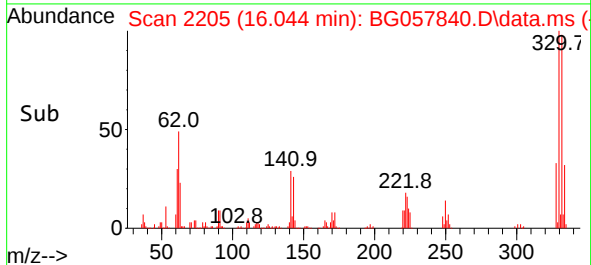
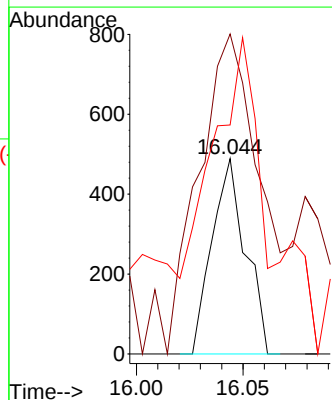
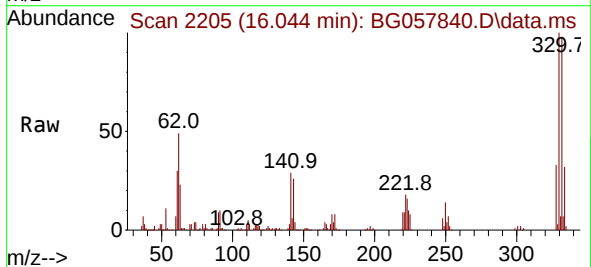
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

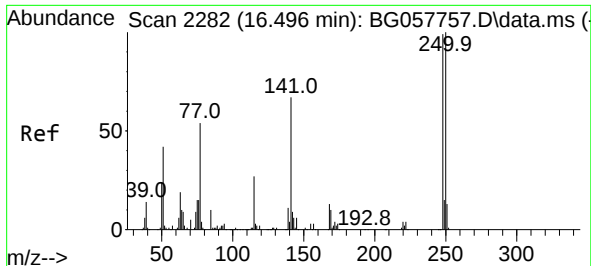
Tgt Ion:188 Resp: 298165  
Ion Ratio Lower Upper  
188 100  
94 9.1 6.6 9.8  
80 10.3 7.6 11.4



#65  
4,6-Dinitro-2-methylphenol  
Concen: 5.659 ng  
RT: 16.044 min Scan# 2205  
Delta R.T. 0.365 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion:198 Resp: 535  
Ion Ratio Lower Upper  
198 100  
51 163.8 36.6 76.6#  
105 117.2 24.3 64.3#

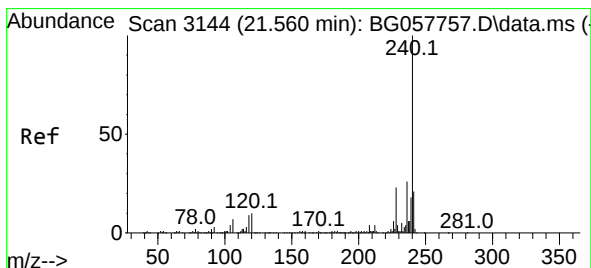
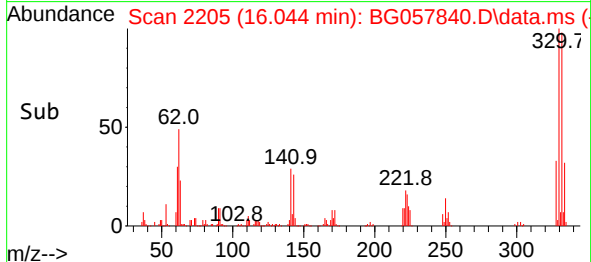
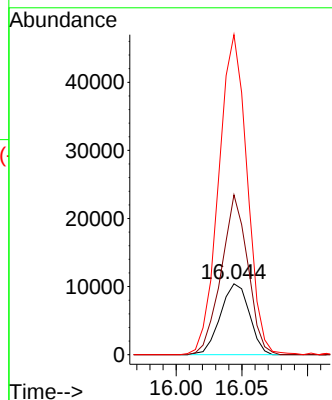
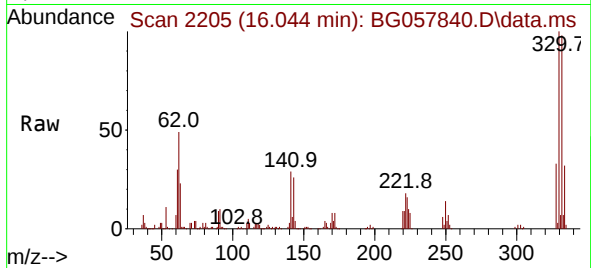




#67  
4-Bromophenyl-phenylether  
Concen: 5.052 ng  
RT: 16.044 min Scan# 21  
Delta R.T. -0.452 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

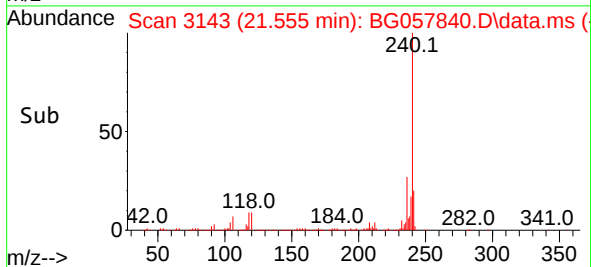
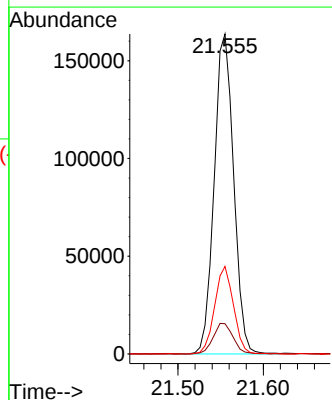
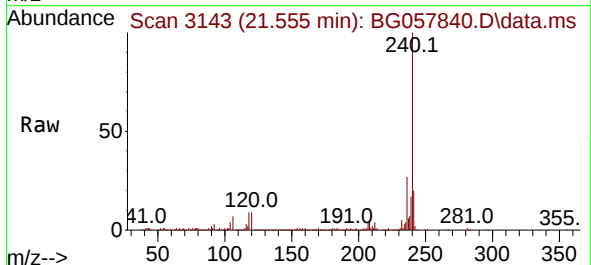
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

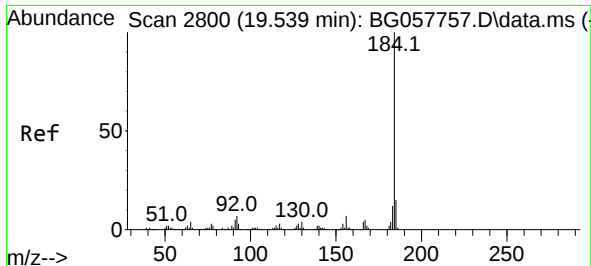
Tgt Ion:248 Resp: 15975  
Ion Ratio Lower Upper  
248 100  
250 225.8 81.1 121.7#  
141 451.8 54.6 81.8#



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.555 min Scan# 3143  
Delta R.T. -0.005 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion:240 Resp: 260085  
Ion Ratio Lower Upper  
240 100  
120 9.4 8.1 12.1  
236 27.3 20.6 30.8

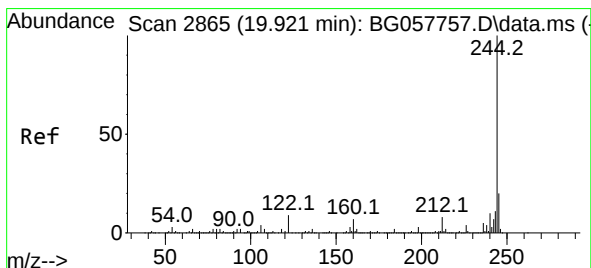
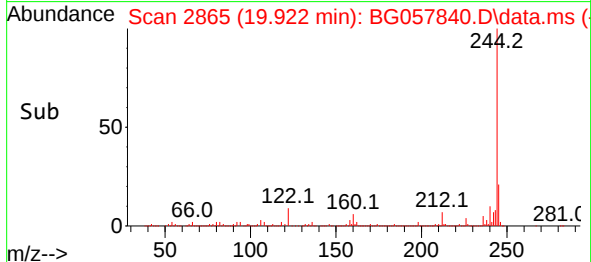
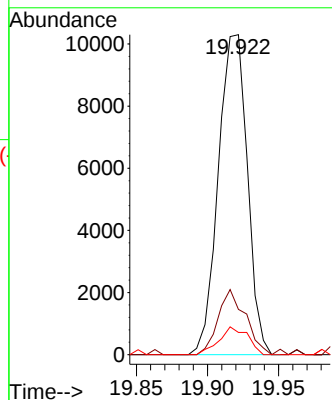
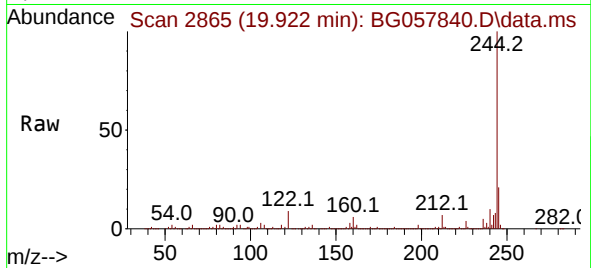




#77  
Benzidine  
Concen: 2.404 ng  
RT: 19.922 min Scan# 2865  
Delta R.T. 0.383 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

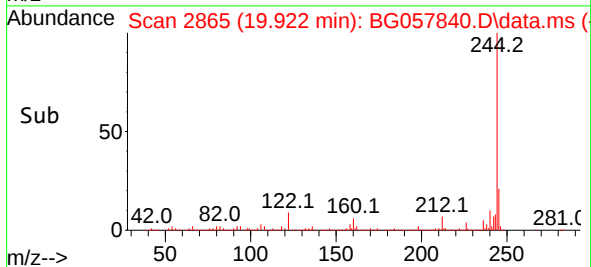
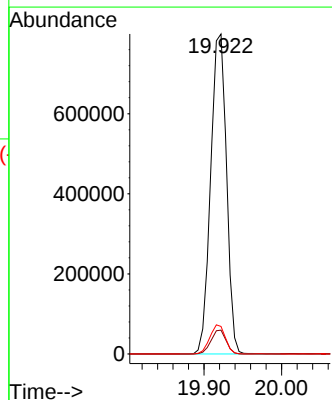
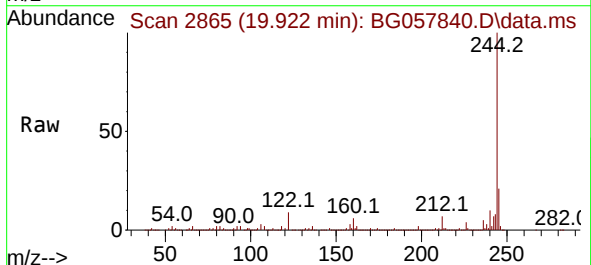
Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

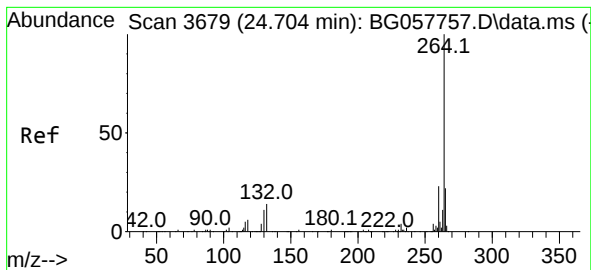
Tgt Ion:184 Resp: 14659  
Ion Ratio Lower Upper  
184 100  
185 14.1 12.0 18.0  
183 6.9 9.4 14.0#



#79  
Terphenyl-d14  
Concen: 81.329 ng  
RT: 19.922 min Scan# 2865  
Delta R.T. 0.001 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Tgt Ion:244 Resp: 1134386  
Ion Ratio Lower Upper  
244 100  
212 7.5 6.1 9.1  
122 8.6 7.6 11.4





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.710 min Scan# 30  
Delta R.T. 0.007 min  
Lab File: BG057840.D  
Acq: 23 Jun 2023 13:22

Instrument :  
BNA\_G  
ClientSampleId :  
MW-6A

Tgt Ion:264 Resp: 320419  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.5  | 18.5  | 27.7  |
| 265 | 21.6  | 17.4  | 26.2  |

