

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG041621\  
 Data File : BG048732.D  
 Acq On : 16 Apr 2021 20:07  
 Operator : CG/JU  
 Sample : M2042-08  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 FS-SB12A

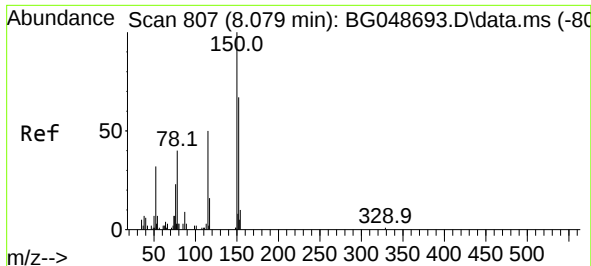
Quant Time: Apr 17 04:20:06 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG041421.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 16 15:59:00 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.079  | 152  | 19107    | 20.00  | ng    | # 0.00   |
| 21) Naphthalene-d8            | 10.905 | 136  | 79216    | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.736 | 164  | 55850    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.491 | 188  | 136476   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.792 | 240  | 135895   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12              | 25.129 | 264  | 137811   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.629  | 112  | 78854    | 69.02  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.238  | 99   | 58704    | 36.33  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.254  | 82   | 170989   | 96.64  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.228 | 330  | 113158   | 151.11 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.355 | 172  | 370344   | 95.76  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.106 | 244  | 663622   | 84.05  | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 9) Benzaldehyde               | 7.209  | 77   | 3786     | 3.54   | ng    | # 1      |
| 10) Phenol                    | 7.262  | 94   | 4058     | 2.55   | ng    | 89       |
| 18) Hexachloroethane          | 9.189  | 117  | 12094    | 21.68  | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 9.254  | 70   | 27762    | 25.46  | ng    | # 72     |
| 22) Acetophenone              | 8.895  | 105  | 8990     | 4.36   | ng    | # 61     |
| 31) Naphthalene               | 10.958 | 128  | 158281   | 38.94  | ng    | 98       |
| 33) 4-Chloroaniline           | 10.963 | 127  | 21359    | 12.63  | ng    | # 37     |
| 37) 2-Methylnaphthalene       | 12.779 | 142  | 65254    | 20.09  | ng    | 96       |
| 38) 1-Methylnaphthalene       | 12.779 | 142  | 65254    | 21.59  | ng    | # 93     |
| 50) Dimethylphthalate         | 14.177 | 163  | 8555     | 2.04   | ng    | 97       |
| 51) 2,6-Dinitrotoluene        | 14.260 | 165  | 2572     | 2.66   | ng    | # 17     |
| 54) 2,4-Dinitrophenol         | 14.700 | 184  | 77       | 5.41   | ng    | # 8      |
| 57) 2,4-Dinitrotoluene        | 14.736 | 165  | 7470     | 5.32   | ng    | # 18     |
| 67) 4-Bromophenyl-phenylether | 16.228 | 248  | 8193     | 5.22   | ng    | # 1      |
| 71) Phenanthrene              | 17.532 | 178  | 27966    | 3.95   | ng    | # 93     |
| 72) Anthracene                | 17.532 | 178  | 27966    | 3.99   | ng    | 96       |
| 73) Carbazole                 | 17.897 | 167  | 13581    | 2.02   | ng    | 99       |
| 77) Benzidine                 | 20.106 | 184  | 13769    | 3.73   | ng    | # 87     |
| -----                         |        |      |          |        |       |          |

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

Quant Time: Apr 17 04:20:06 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG041421.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 16 15:59:00 2021  
Response via : Initial Calibration

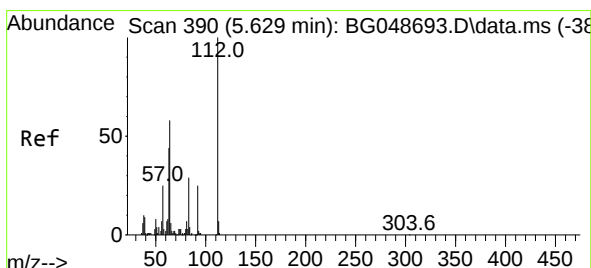
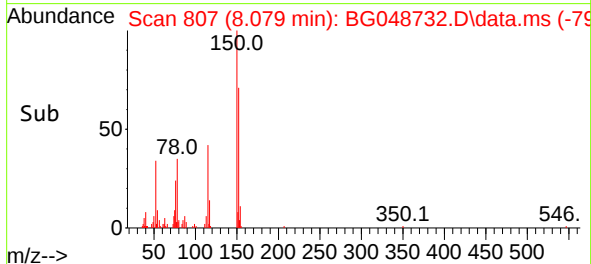
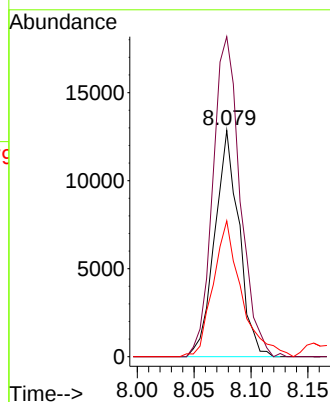
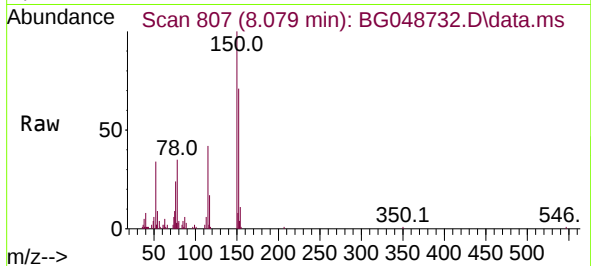




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.079 min Scan# 807  
Delta R.T. -0.001 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

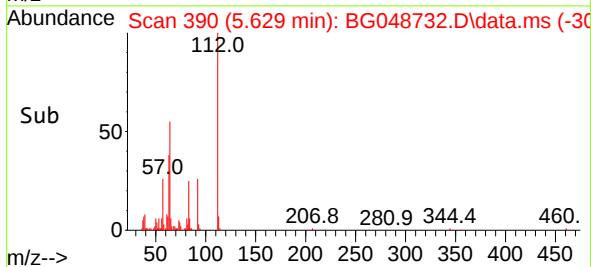
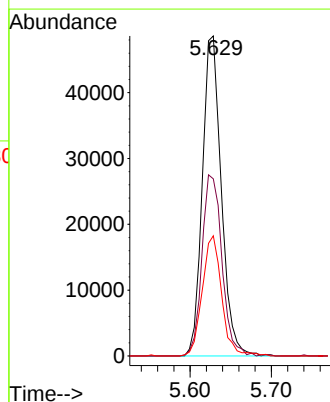
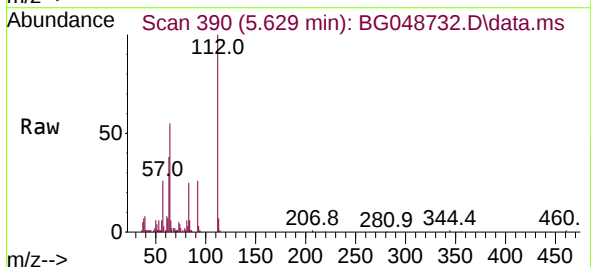
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BNA\_G  
ClientSampleId :  
FS-SB12A

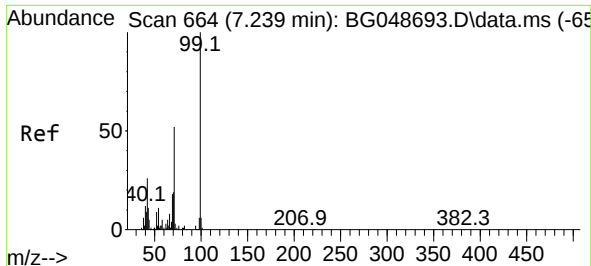
Tgt Ion:152 Resp: 19107  
Ion Ratio Lower Upper  
152 100  
150 141.4 119.4 179.0  
115 60.0 60.2 90.4#



#5  
2-Fluorophenol  
Concen: 69.02 ng  
RT: 5.629 min Scan# 390  
Delta R.T. -0.001 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:112 Resp: 78854  
Ion Ratio Lower Upper  
112 100  
64 55.3 46.7 70.1  
63 37.6 35.3 52.9

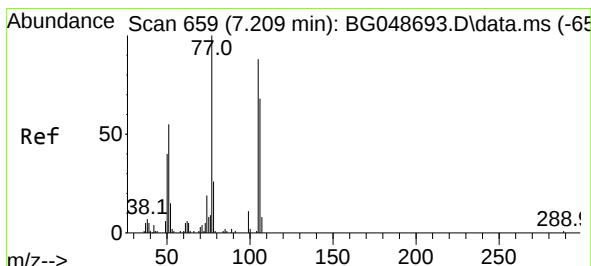
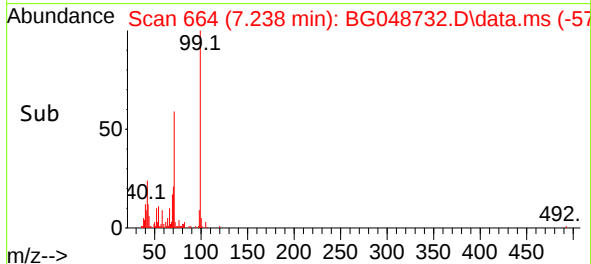
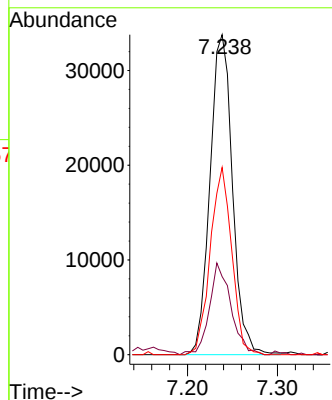
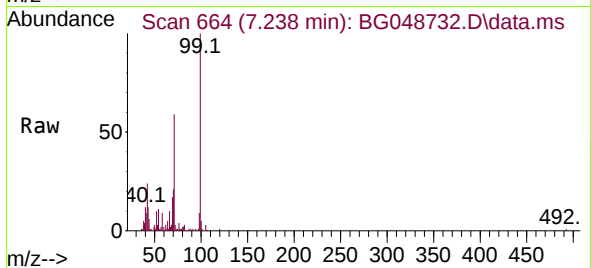




#7  
Phenol-d6  
Concen: 36.33 ng  
RT: 7.238 min Scan# 664  
Delta R.T. -0.001 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

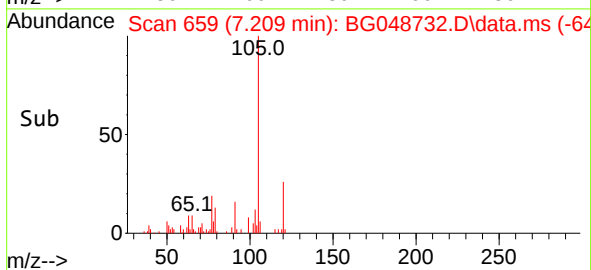
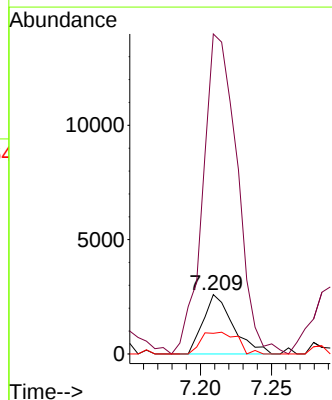
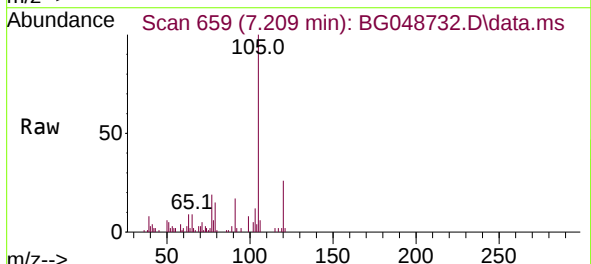
Instrument :  
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ClientSampleId :  
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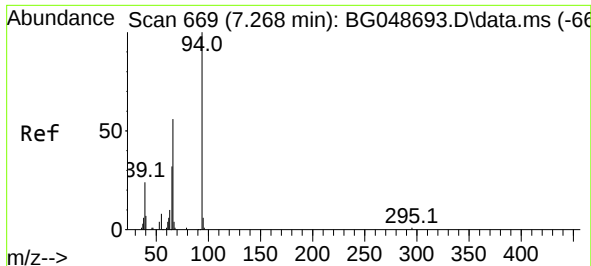
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 58704 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 24.4  | 20.5  | 30.7  |
| 71       | 58.5  | 41.5  | 62.3  |



#9  
Benzaldehyde  
Concen: 3.54 ng  
RT: 7.209 min Scan# 659  
Delta R.T. -0.001 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 3786   |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 105      | 538.9 | 68.8  | 108.8# |
| 106      | 34.9  | 47.9  | 87.9#  |

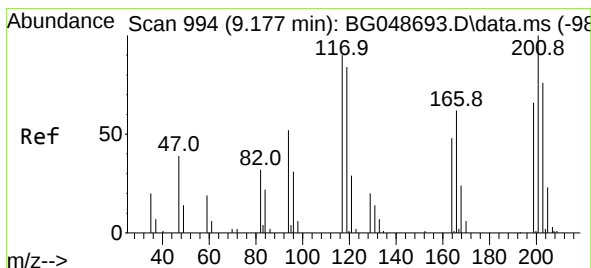
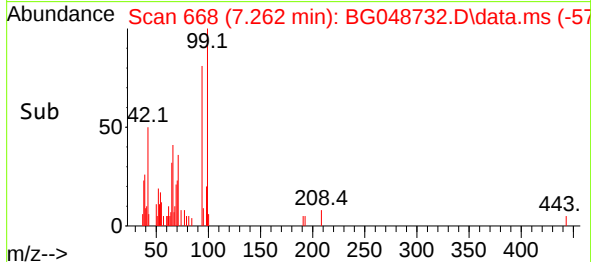
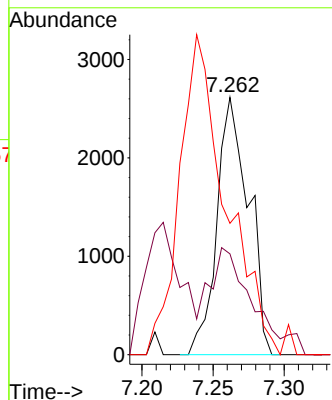
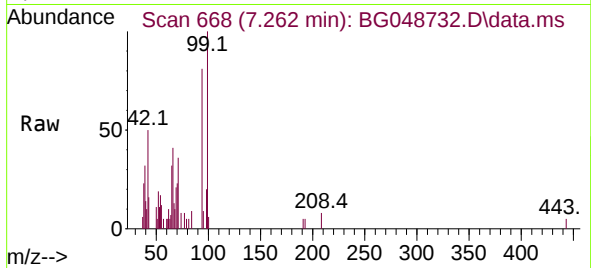




#10  
Phenol  
Concen: 2.55 ng  
RT: 7.262 min Scan# 668  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

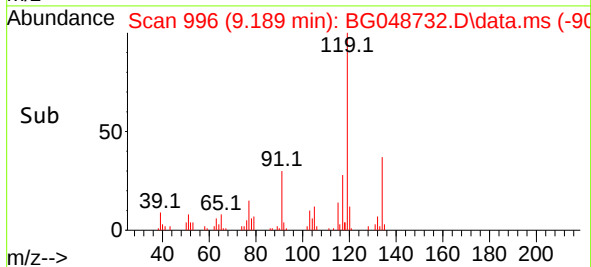
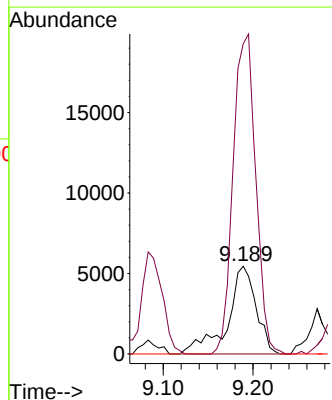
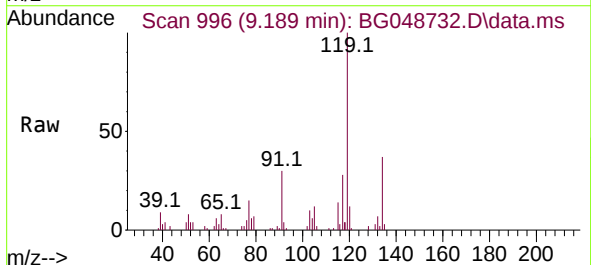
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BNA\_G  
ClientSampleId :  
FS-SB12A

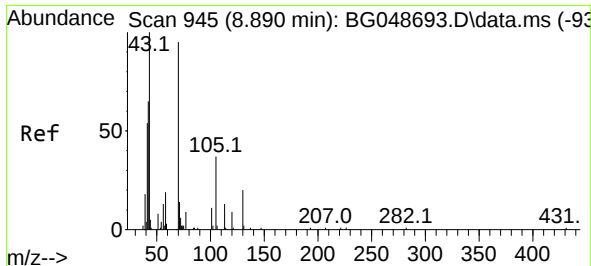
|             |             |
|-------------|-------------|
| Tgt Ion: 94 | Resp: 4058  |
| Ion Ratio   | Lower Upper |
| 94 100      |             |
| 65 39.2     | 12.9 52.9   |
| 66 51.1     | 39.4 79.4   |



#18  
Hexachloroethane  
Concen: 21.68 ng  
RT: 9.189 min Scan# 996  
Delta R.T. 0.016 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

|              |             |
|--------------|-------------|
| Tgt Ion: 117 | Resp: 12094 |
| Ion Ratio    | Lower Upper |
| 117 100      |             |
| 119 353.5    | 74.4 111.6# |
| 201 0.0      | 88.6 133.0# |

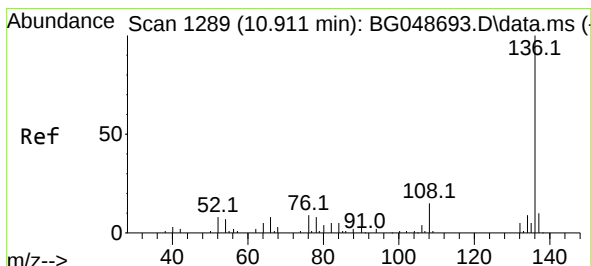
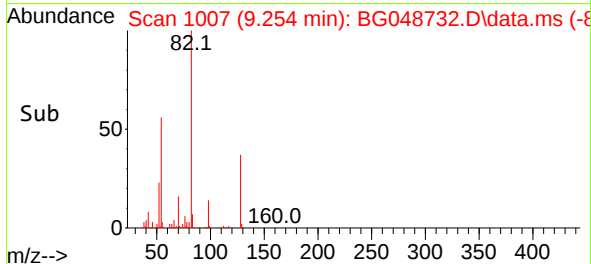
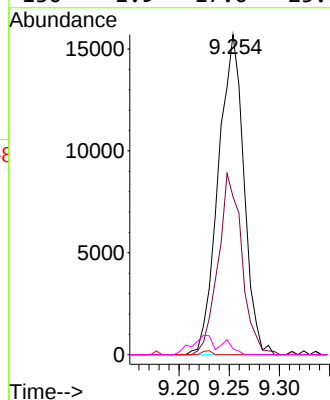
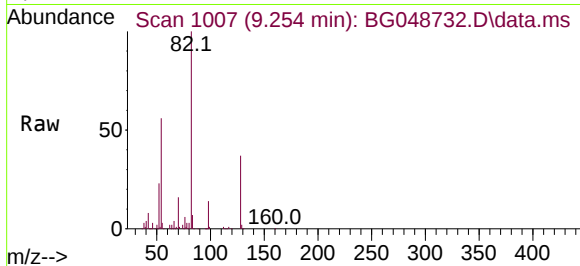




#19  
n-Nitroso-di-n-propylamine  
Concen: 25.46 ng  
RT: 9.254 min Scan# 1007  
Delta R.T. 0.363 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

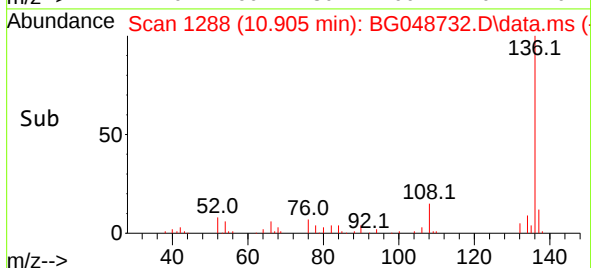
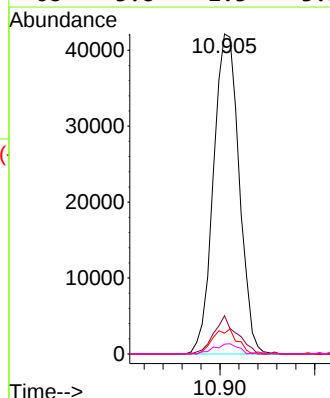
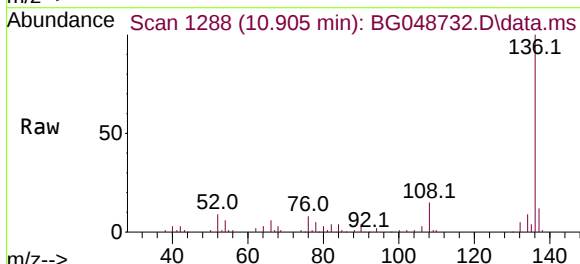
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ClientSampleId :  
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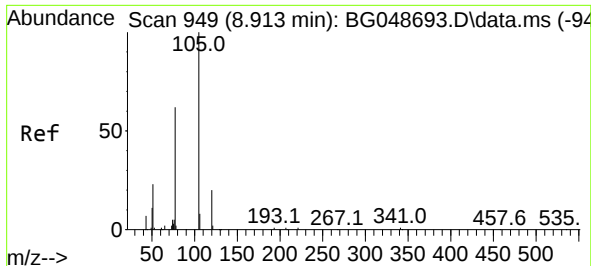
|             |             |
|-------------|-------------|
| Tgt Ion: 70 | Resp: 27762 |
| Ion Ratio   | Lower Upper |
| 70 100      |             |
| 42 49.4     | 54.5 81.7#  |
| 101 0.0     | 9.0 13.6#   |
| 130 1.9     | 17.0 25.6#  |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.905 min Scan# 1288  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

|              |             |
|--------------|-------------|
| Tgt Ion: 136 | Resp: 79216 |
| Ion Ratio    | Lower Upper |
| 136 100      |             |
| 137 11.9     | 8.2 12.2    |
| 54 6.5       | 5.5 8.3     |
| 68 3.8       | 2.3 3.5#    |

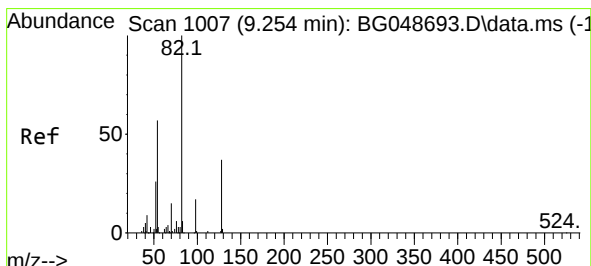
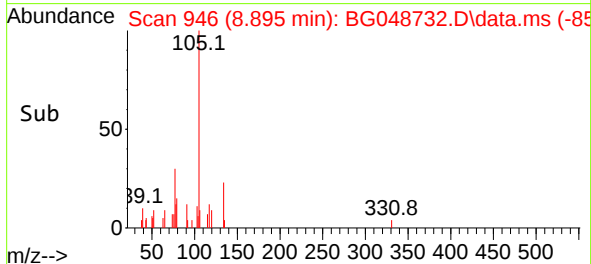
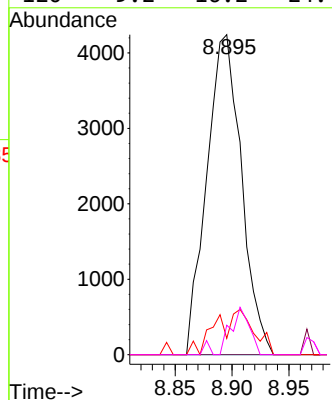
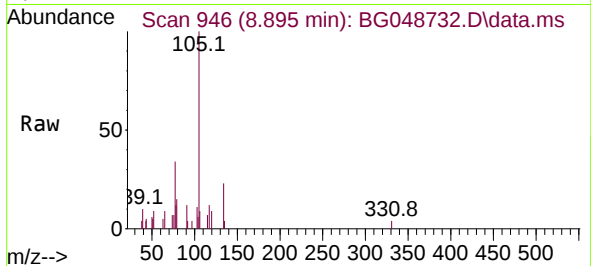




#22  
Acetophenone  
Concen: 4.36 ng  
RT: 8.895 min Scan# 946  
Delta R.T. -0.013 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

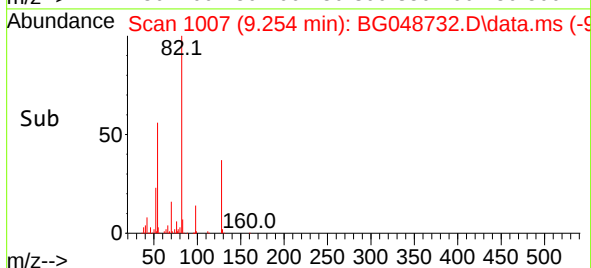
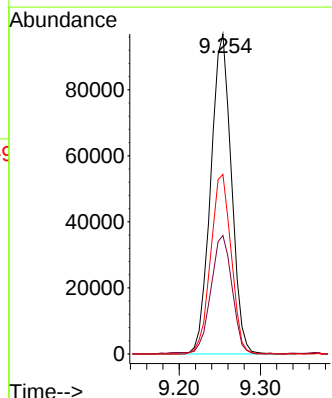
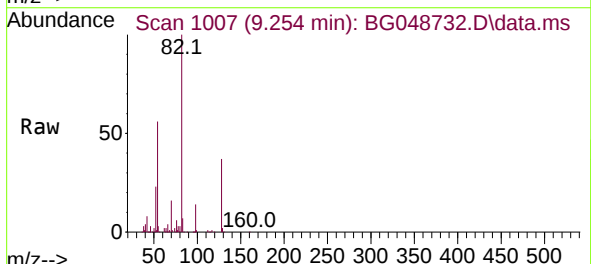
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ClientSampleId :  
FS-SB12A

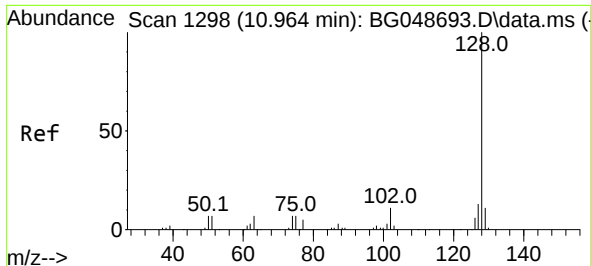
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| Tgt Ion:  | 105   | Resp: | 8990  |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 71        | 0.0   | 0.6   | 0.8#  |
| 51        | 5.1   | 26.6  | 40.0# |
| 120       | 9.2   | 16.2  | 24.4# |



#23  
Nitrobenzene-d5  
Concen: 96.64 ng  
RT: 9.254 min Scan# 1007  
Delta R.T. -0.001 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 170989 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 37.0  | 29.8  | 44.6   |
| 54        | 56.1  | 45.8  | 68.8   |

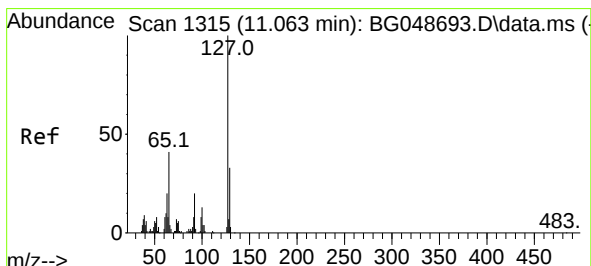
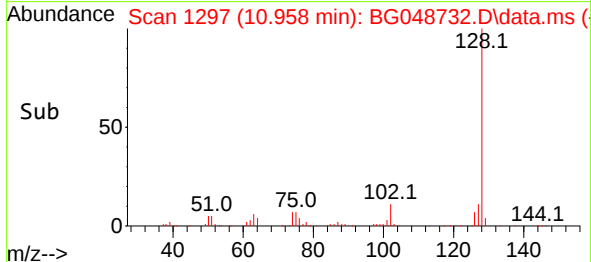
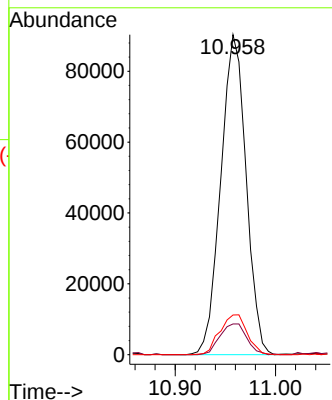
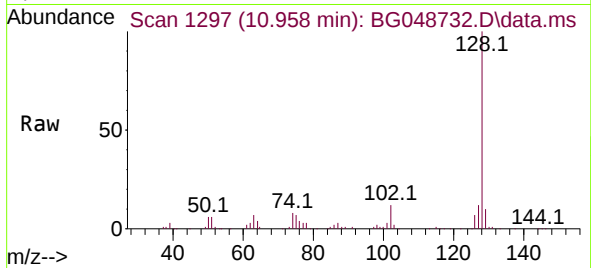




#31  
Naphthalene  
Concen: 38.94 ng  
RT: 10.958 min Scan# 1297  
Delta R.T. -0.001 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

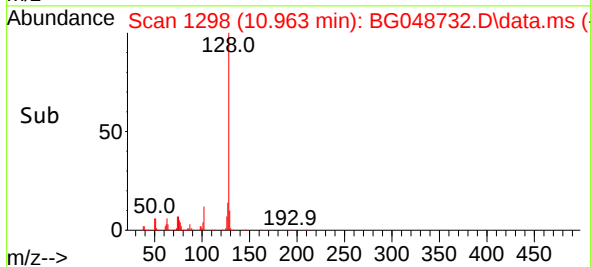
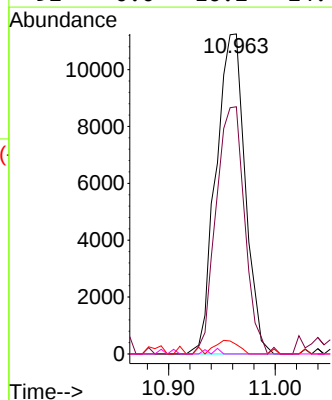
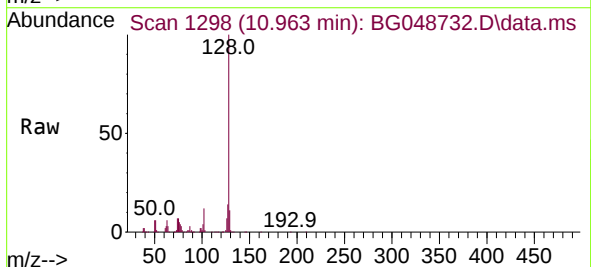
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

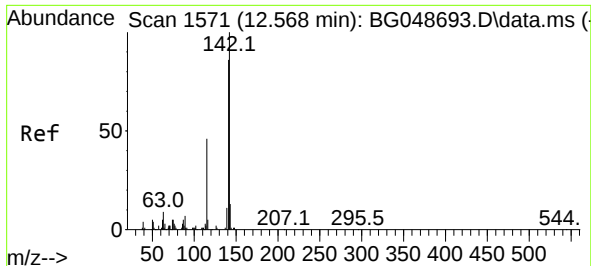
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Ion Ratio Lower Upper  
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127 12.4 10.2 15.4



#33  
4-Chloroaniline  
Concen: 12.63 ng  
RT: 10.963 min Scan# 1298  
Delta R.T. -0.101 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:127 Resp: 21359  
Ion Ratio Lower Upper  
127 100  
129 77.2 26.7 40.1#  
65 2.9 32.8 49.2#  
92 0.0 16.2 24.4#

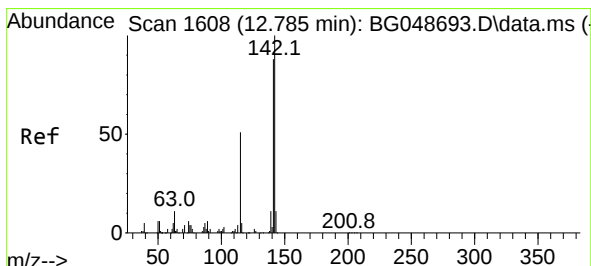
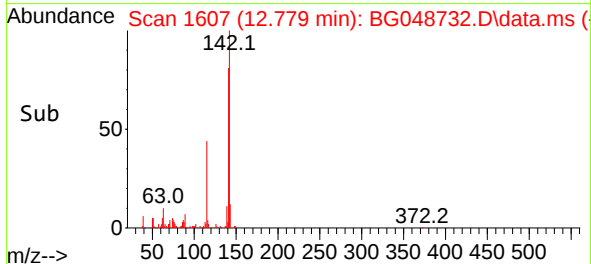
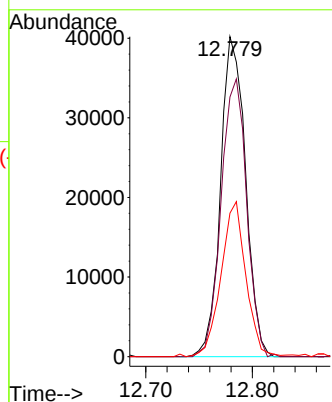
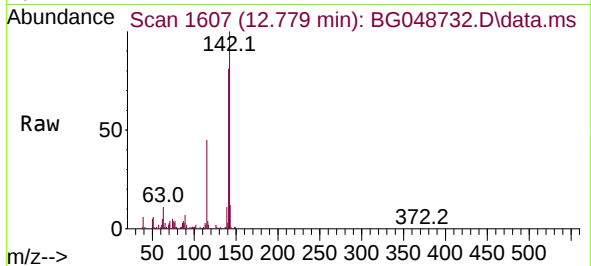




#37  
2-Methylnaphthalene  
Concen: 20.09 ng  
RT: 12.779 min Scan# 1607  
Delta R.T. 0.210 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

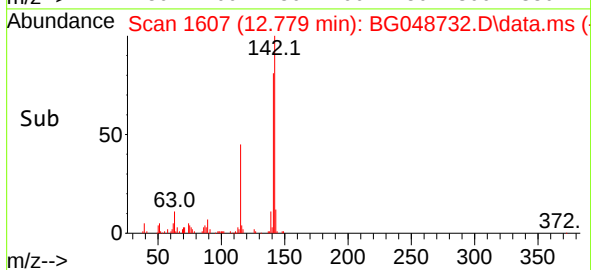
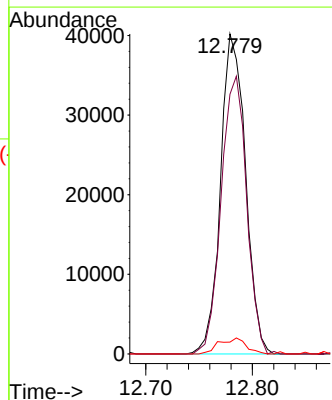
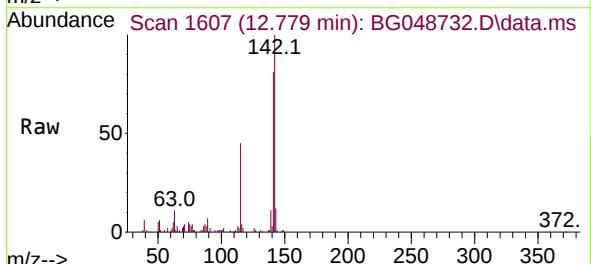
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

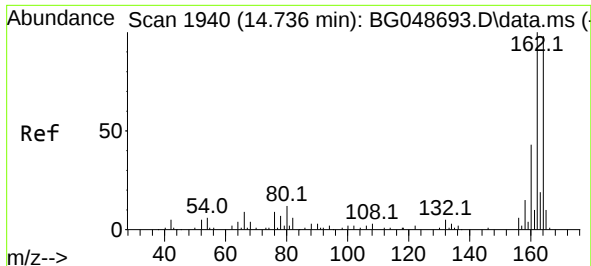
Tgt Ion:142 Resp: 65254  
Ion Ratio Lower Upper  
142 100  
141 81.1 68.8 103.2  
115 44.8 36.4 54.6



#38  
1-Methylnaphthalene  
Concen: 21.59 ng  
RT: 12.779 min Scan# 1607  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:142 Resp: 65254  
Ion Ratio Lower Upper  
142 100  
141 81.1 70.6 106.0  
116 3.7 4.0 6.0#

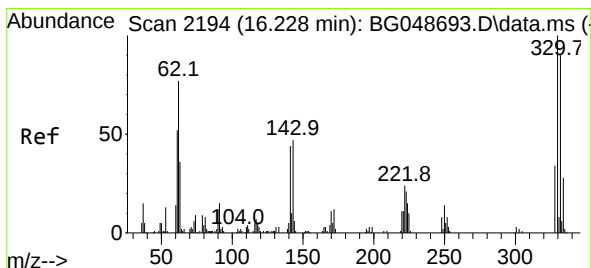
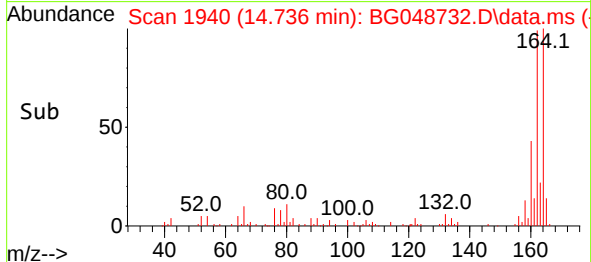
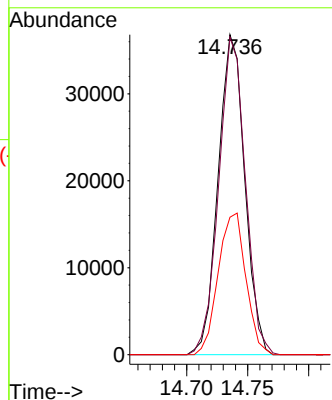
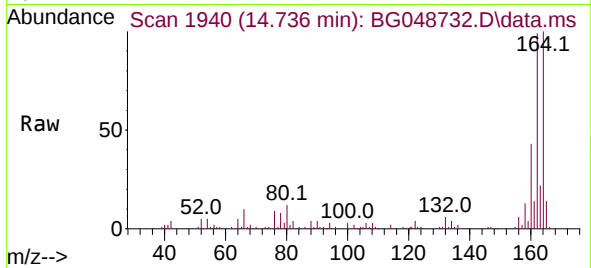




#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.736 min Scan# 1940  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

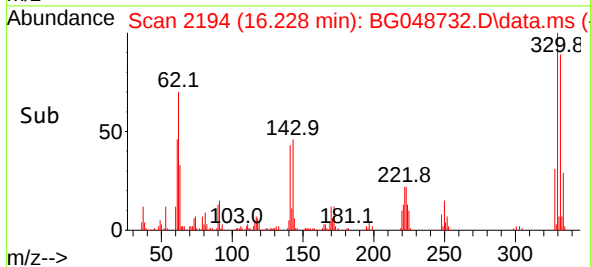
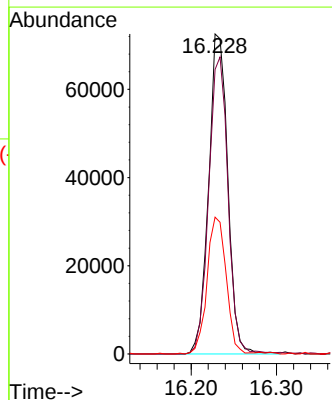
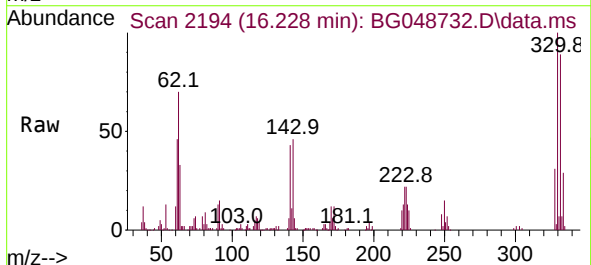
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

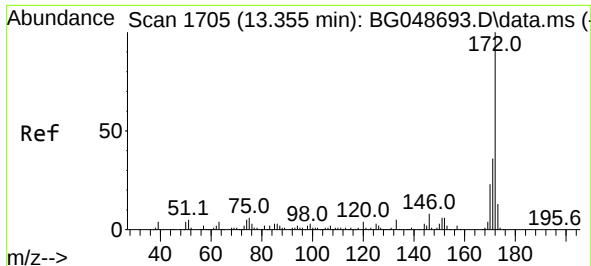
Tgt Ion:164 Resp: 55850  
Ion Ratio Lower Upper  
164 100  
162 99.2 81.4 122.0  
160 43.0 34.9 52.3



#42  
2,4,6-Tribromophenol  
Concen: 151.11 ng  
RT: 16.228 min Scan# 2194  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:330 Resp: 113158  
Ion Ratio Lower Upper  
330 100  
332 93.9 77.3 115.9  
141 42.7 35.6 53.4

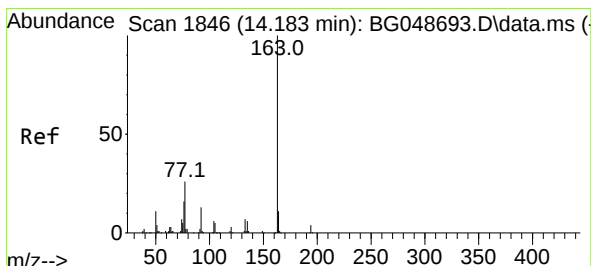
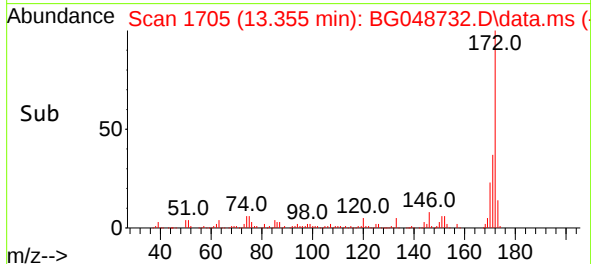
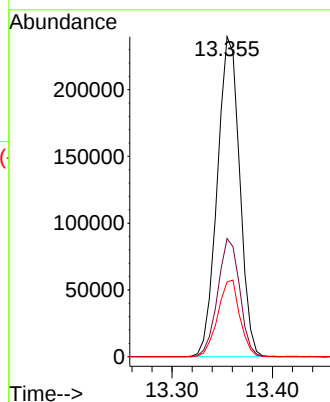
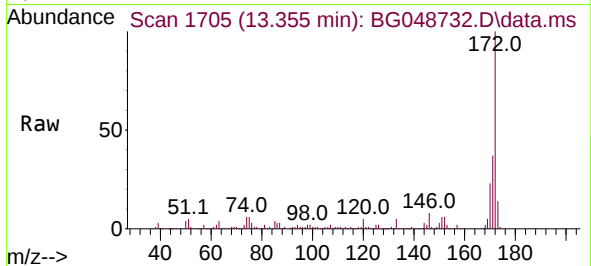




#45  
2-Fluorobiphenyl  
Concen: 95.76 ng  
RT: 13.355 min Scan# 1705  
Delta R.T. -0.001 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

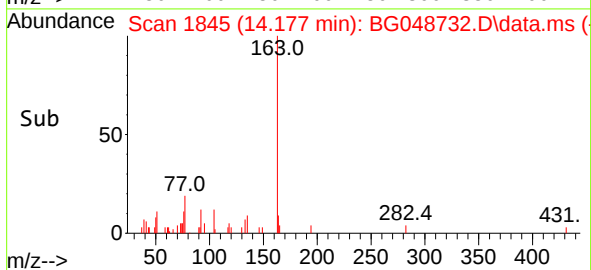
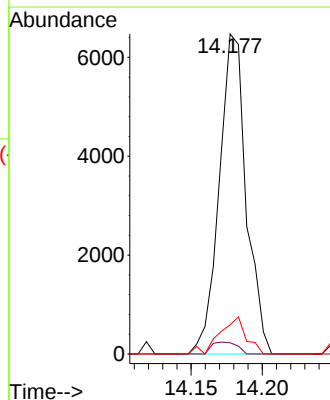
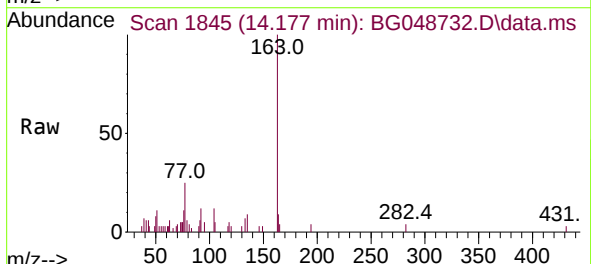
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

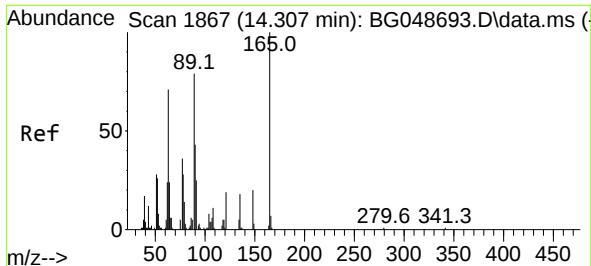
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 370344    |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 36.9  | 28.6 43.0 |
| 170         | 23.4  | 18.6 27.8 |



#50  
Dimethylphthalate  
Concen: 2.04 ng  
RT: 14.177 min Scan# 1845  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:163 | Resp: | 8555     |
| Ion Ratio   | Lower | Upper    |
| 163         | 100   |          |
| 194         | 3.5   | 3.0 4.6  |
| 164         | 9.1   | 8.6 12.8 |

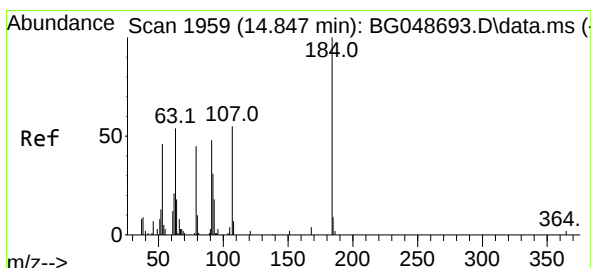
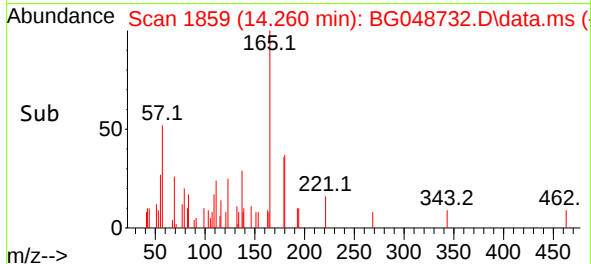
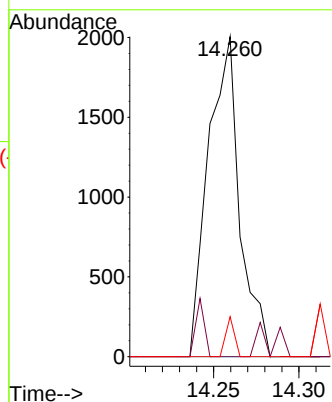
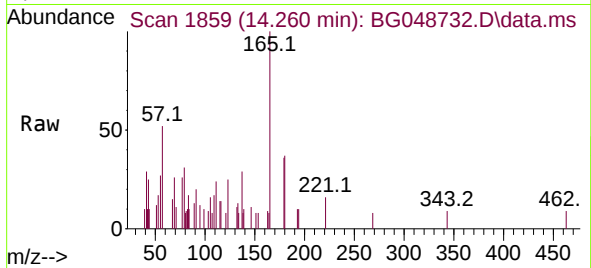




#51  
2,6-Dinitrotoluene  
Concen: 2.66 ng  
RT: 14.260 min Scan# 1859  
Delta R.T. -0.054 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

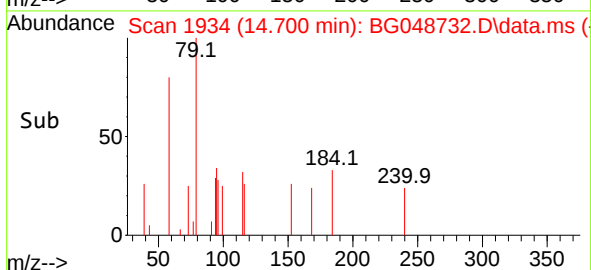
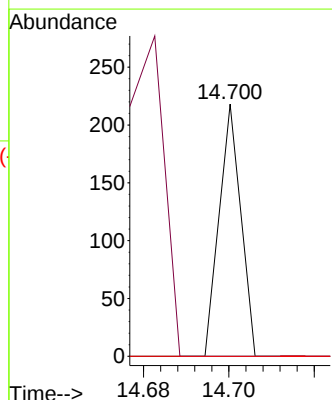
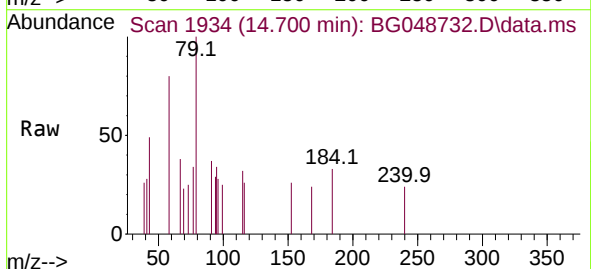
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

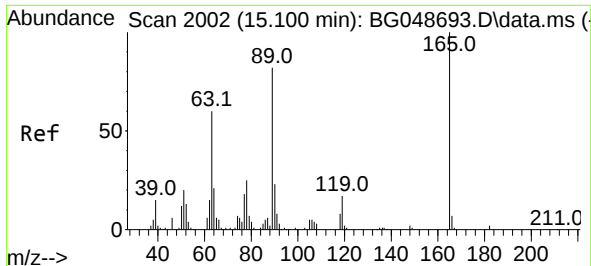
Tgt Ion:165 Resp: 2572  
Ion Ratio Lower Upper  
165 100  
63 0.0 63.3 94.9#  
89 12.5 63.4 95.0#



#54  
2,4-Dinitrophenol  
Concen: 5.41 ng  
RT: 14.700 min Scan# 1934  
Delta R.T. -0.154 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:184 Resp: 77  
Ion Ratio Lower Upper  
184 100  
63 0.0 68.3 102.5#  
154 0.0 62.6 93.8#

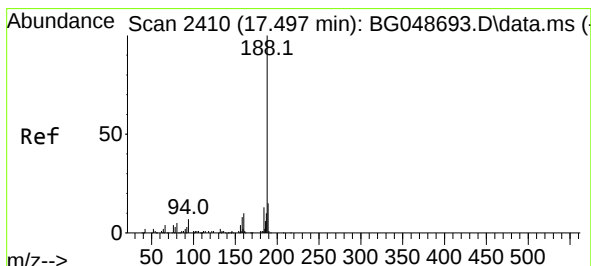
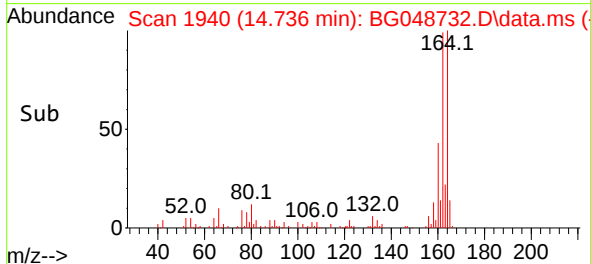
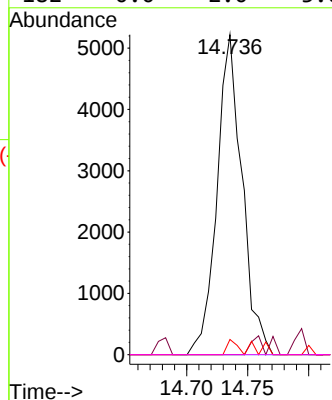
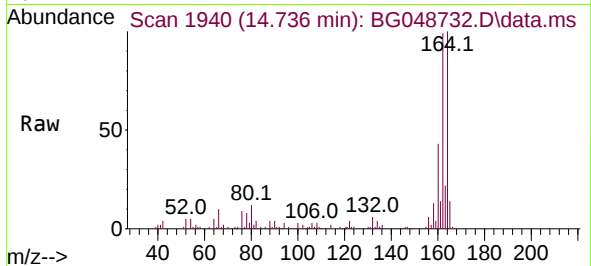




#57  
2,4-Dinitrotoluene  
Concen: 5.32 ng  
RT: 14.736 min Scan# 1940  
Delta R.T. -0.366 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

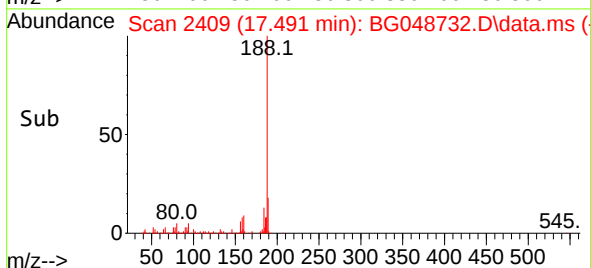
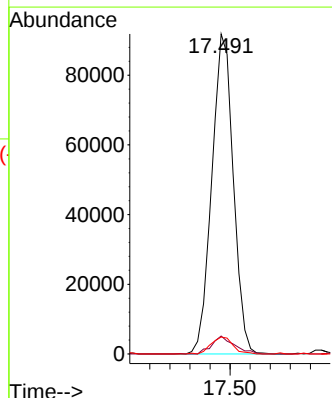
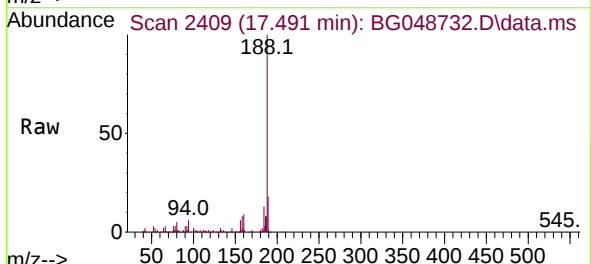
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

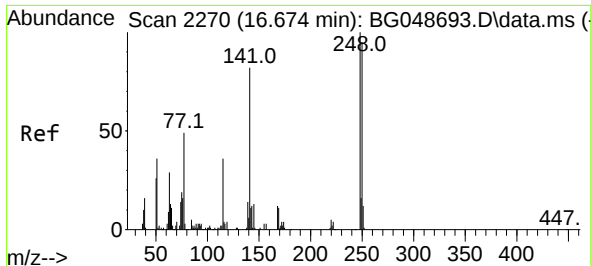
Tgt Ion:165 Resp: 7470  
Ion Ratio Lower Upper  
165 100  
63 0.0 48.0 72.0#  
89 4.8 65.4 98.0#  
182 0.0 2.0 3.0#



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.491 min Scan# 2409  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:188 Resp: 136476  
Ion Ratio Lower Upper  
188 100  
94 5.6 5.4 8.0  
80 5.3 3.7 5.5

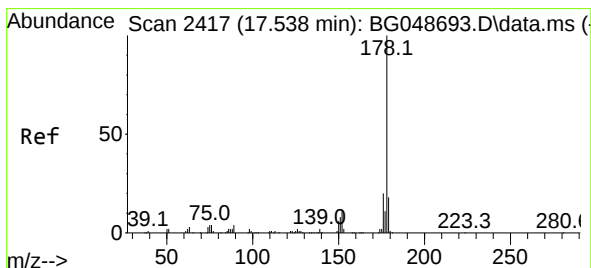
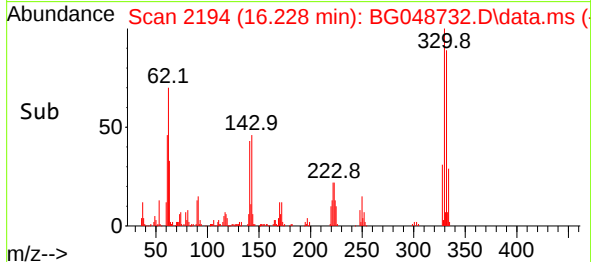
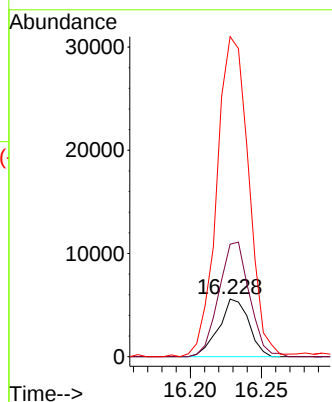
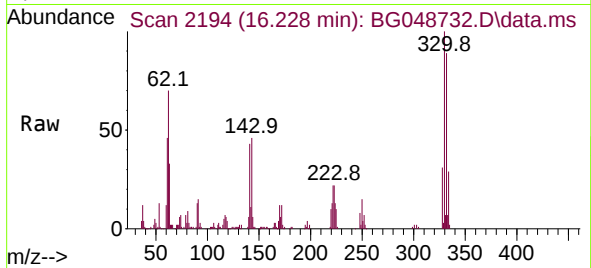




#67  
4-Bromophenyl-phenylether  
Concen: 5.22 ng  
RT: 16.228 min Scan# 2194  
Delta R.T. -0.448 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

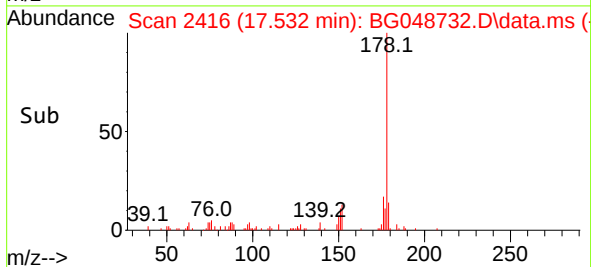
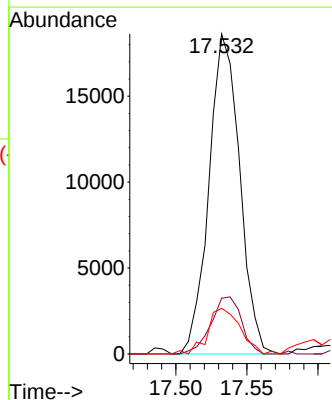
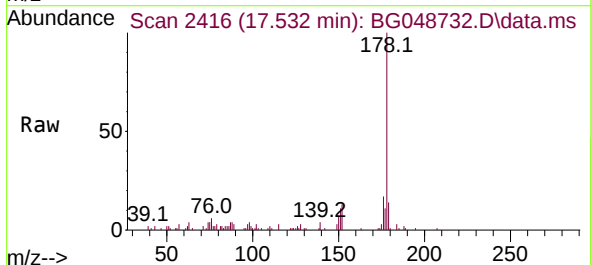
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

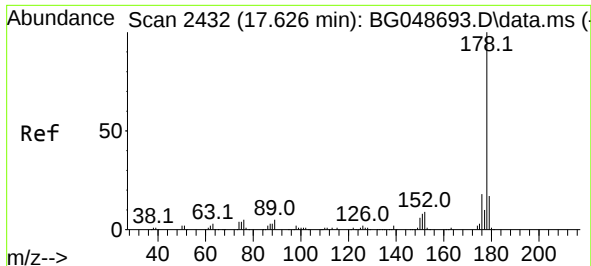
Tgt Ion:248 Resp: 8193  
Ion Ratio Lower Upper  
248 100  
250 252.2 76.1 114.1#  
141 554.8 65.4 98.2#



#71  
Phenanthrene  
Concen: 3.95 ng  
RT: 17.532 min Scan# 2416  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:178 Resp: 27966  
Ion Ratio Lower Upper  
178 100  
176 17.4 16.0 24.0  
179 14.2 14.2 21.4#

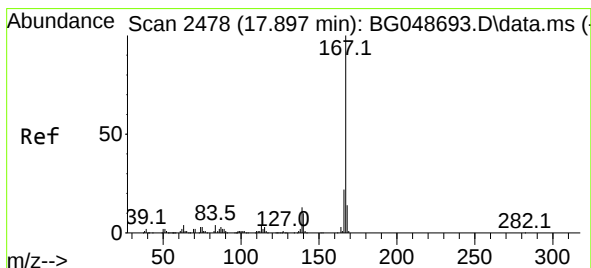
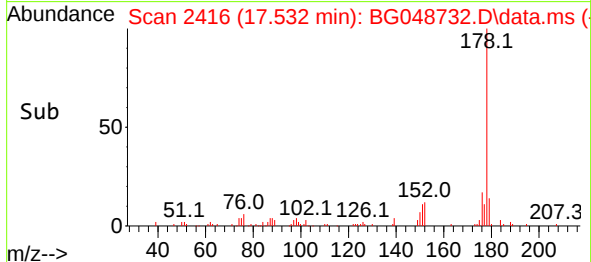
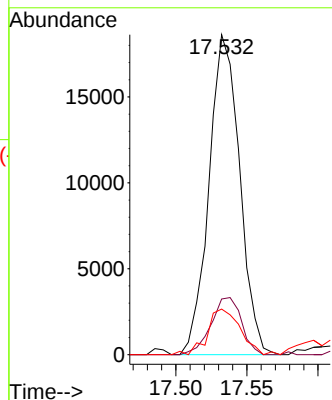
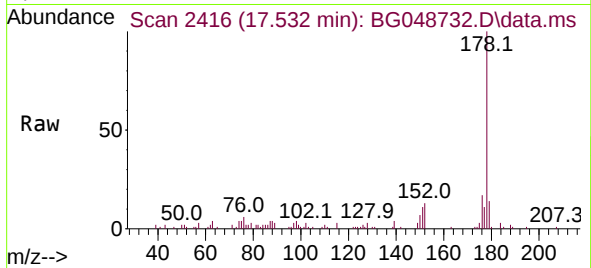




#72  
 Anthracene  
 Concen: 3.99 ng  
 RT: 17.532 min Scan# 2416  
 Delta R.T. -0.095 min  
 Lab File: BG048732.D  
 Acq: 16 Apr 2021 20:07

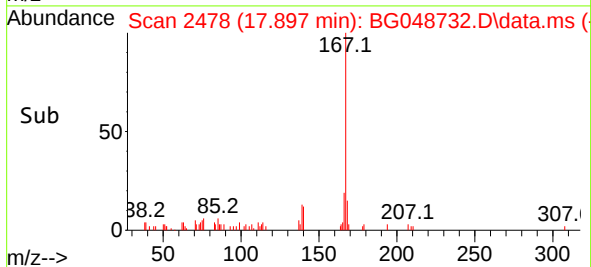
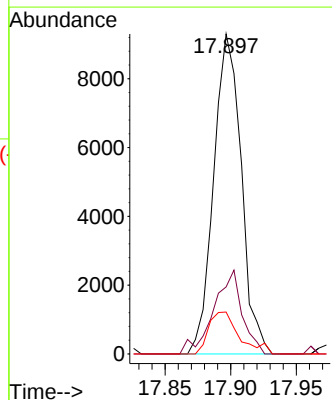
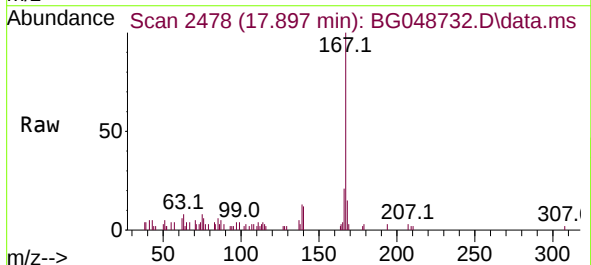
Instrument :  
 BNA\_G  
 ClientSampleId :  
 FS-SB12A

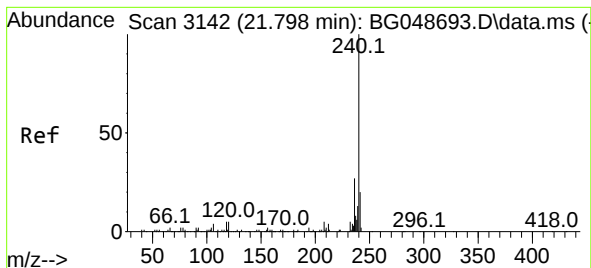
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 27966     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 17.4  | 14.6 21.8 |
| 179         | 14.2  | 13.4 20.0 |



#73  
 Carbazole  
 Concen: 2.02 ng  
 RT: 17.897 min Scan# 2478  
 Delta R.T. -0.007 min  
 Lab File: BG048732.D  
 Acq: 16 Apr 2021 20:07

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:167 | Resp: | 13581     |
| Ion Ratio   | Lower | Upper     |
| 167         | 100   |           |
| 166         | 21.0  | 17.4 26.2 |
| 139         | 13.1  | 10.7 16.1 |

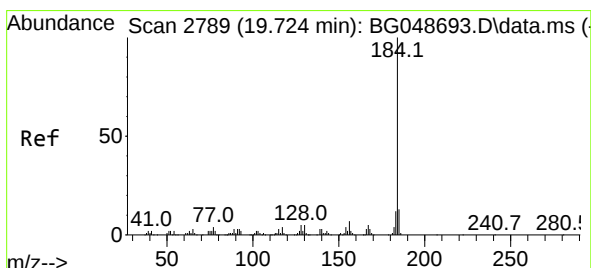
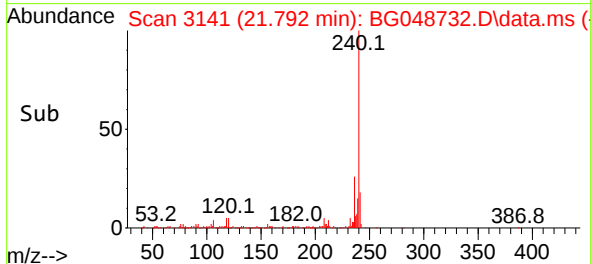
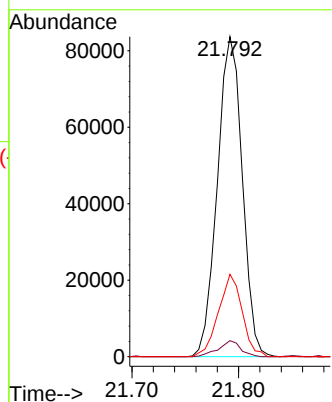
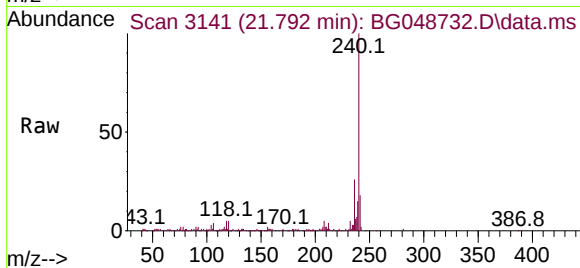




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.792 min Scan# 3141  
Delta R.T. -0.007 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

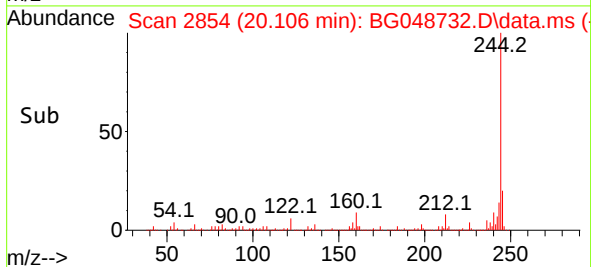
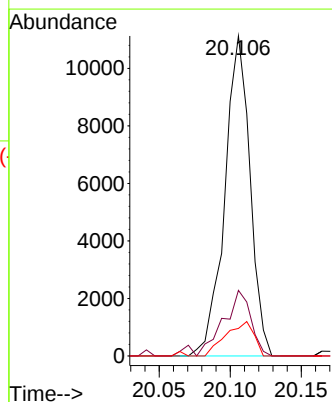
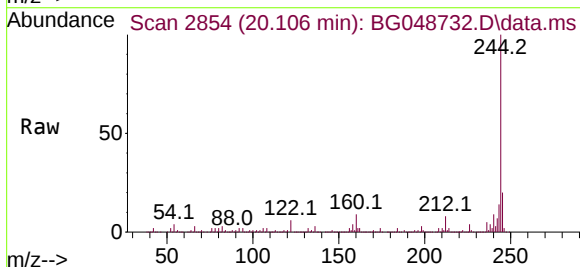
Instrument :  
BNA\_G  
ClientSampleId :  
FS-SB12A

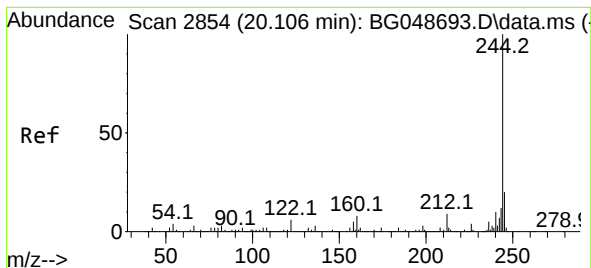
Tgt Ion:240 Resp: 135895  
Ion Ratio Lower Upper  
240 100  
120 5.0 4.2 6.2  
236 25.8 21.8 32.6



#77  
Benzidine  
Concen: 3.73 ng  
RT: 20.106 min Scan# 2854  
Delta R.T. 0.375 min  
Lab File: BG048732.D  
Acq: 16 Apr 2021 20:07

Tgt Ion:184 Resp: 13769  
Ion Ratio Lower Upper  
184 100  
185 20.5 10.7 16.1#  
183 8.6 9.4 14.0#





#79

Terphenyl-d14

Concen: 84.05 ng

RT: 20.106 min Scan# 2854

Delta R.T. -0.001 min

Lab File: BG048732.D

Acq: 16 Apr 2021 20:07

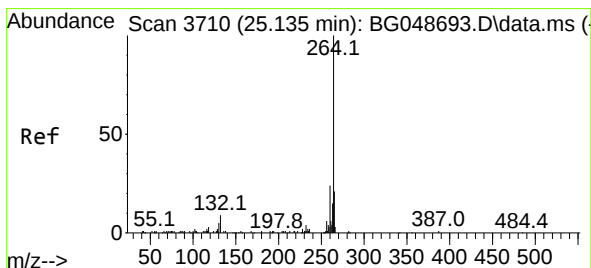
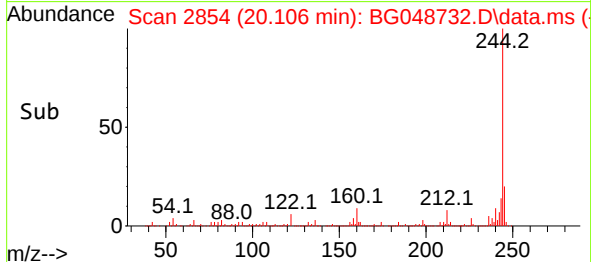
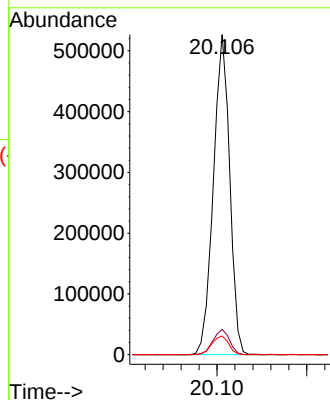
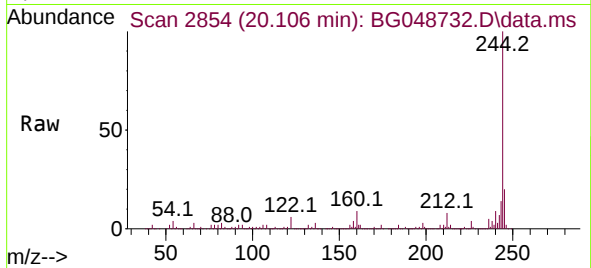
Tgt Ion:244 Resp: 663622

Ion Ratio Lower Upper

244 100

212 7.9 6.9 10.3

122 5.9 5.0 7.6



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.129 min Scan# 3709

Delta R.T. -0.013 min

Lab File: BG048732.D

Acq: 16 Apr 2021 20:07

Tgt Ion:264 Resp: 137811

Ion Ratio Lower Upper

264 100

260 23.6 19.4 29.2

265 20.8 16.9 25.3

