

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG083019\  
 Data File : BG042616.D  
 Acq On : 31 Aug 2019 1:07  
 Operator : HP/JU  
 Sample : K4618-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 31 05:10:09 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 22 14:29:15 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.00  | 152  | 34417    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.82 | 136  | 135345   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.66 | 164  | 97946    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.41 | 188  | 219180   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.68 | 240  | 229599   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.92 | 264  | 276485   | 20.00 | ng    | -0.02    |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.56  | 112 | 190557 | 112.13 | ng | 0.00  |
| 7) Phenol-d6                | 7.16  | 99  | 250868 | 109.29 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 9.16  | 82  | 137788 | 70.35  | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 16.15 | 330 | 157923 | 113.44 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 13.28 | 172 | 395252 | 68.25  | ng | 0.00  |
| 79) Terphenyl-d14           | 20.02 | 244 | 654952 | 61.67  | ng | 0.00  |

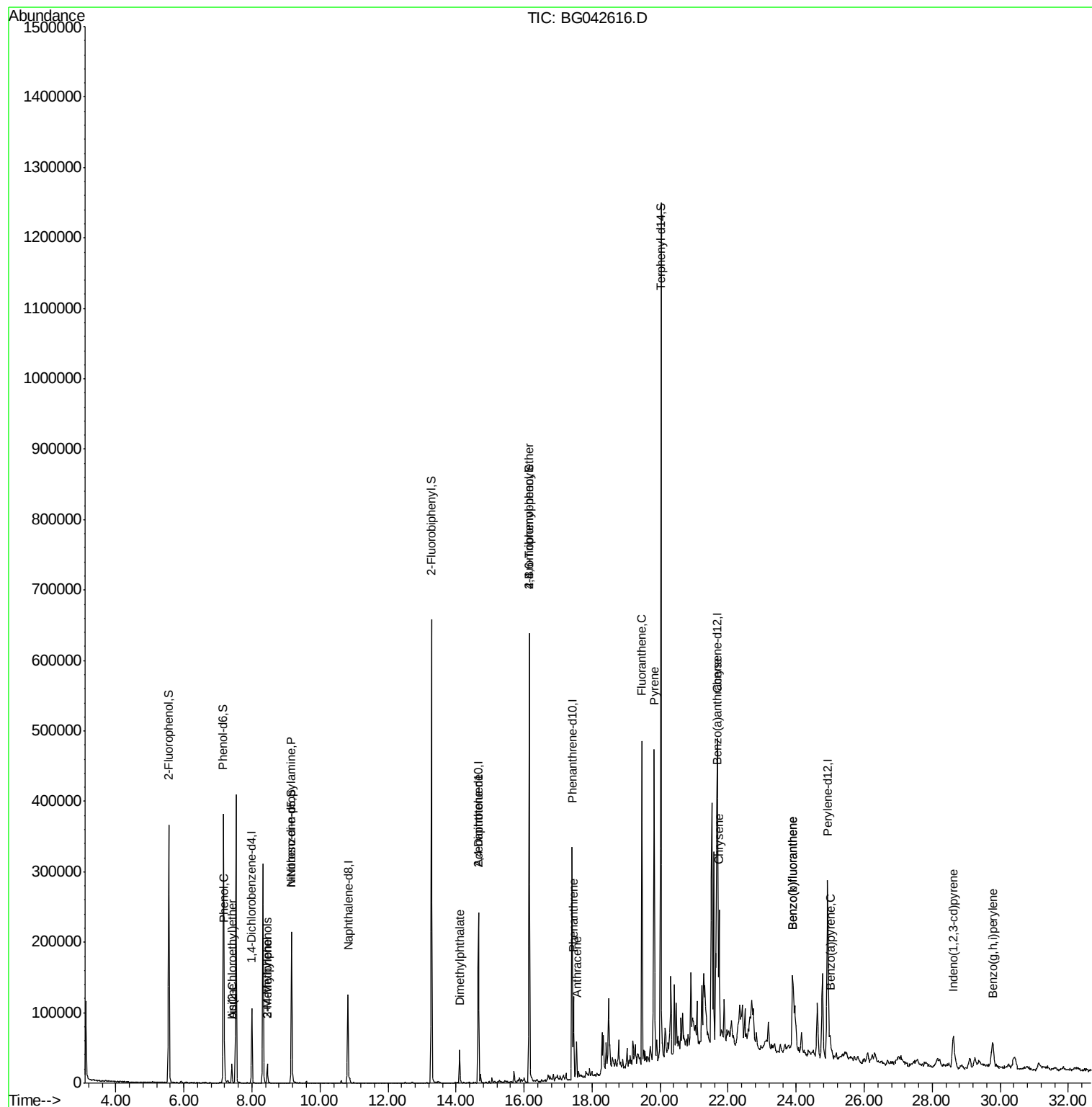
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 6) Aniline                     | 7.41  | 93  | 17368  | 5.673  | ng | # 59 |
| 10) Phenol                     | 7.18  | 94  | 21324  | 9.137  | ng | 90   |
| 11) bis(2-Chloroethyl)ether    | 7.41  | 93  | 17368  | 9.475  | ng | 95   |
| 17) 2-Methylphenol             | 8.45  | 107 | 10417  | 6.060  | ng | 91   |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70  | 18001  | 12.105 | ng | # 73 |
| 20) 3+4-Methylphenols          | 8.45  | 107 | 10417  | 4.379  | ng | 83   |
| 50) Dimethylphthalate          | 14.11 | 163 | 43098  | 6.098  | ng | 97   |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165 | 13184  | 5.620  | ng | # 38 |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248 | 10816  | 3.890  | ng | # 1  |
| 71) Phenanthrene               | 17.45 | 178 | 80023  | 7.350  | ng | 96   |
| 72) Anthracene                 | 17.54 | 178 | 39190  | 3.606  | ng | 97   |
| 75) Fluoranthene               | 19.46 | 202 | 297911 | 22.422 | ng | 96   |
| 78) Pyrene                     | 19.82 | 202 | 321325 | 22.827 | ng | 97   |
| 81) Benzo(a)anthracene         | 21.66 | 228 | 166794 | 11.942 | ng | 97   |
| 83) Chrysene                   | 21.73 | 228 | 139949 | 10.390 | ng | 98   |
| 86) Indeno(1,2,3-cd)pyrene     | 28.62 | 276 | 78368  | 4.281  | ng | # 96 |
| 88) Benzo(b)fluoranthene       | 23.90 | 252 | 163910 | 10.783 | ng | 99   |
| 89) Benzo(k)fluoranthene       | 23.90 | 252 | 163910 | 11.219 | ng | 98   |
| 90) Benzo(a)pyrene             | 25.00 | 252 | 33076  | 2.293  | ng | 94   |
| 92) Benzo(a,h,i)perylene       | 29.76 | 276 | 79251  | 5.426  | ng | 94   |

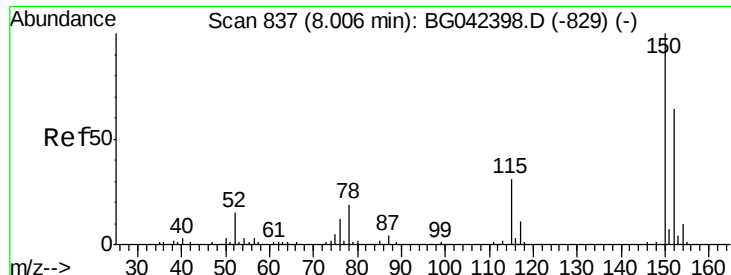
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG083019\  
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Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Aug 31 05:10:09 2019  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 22 14:29:15 2019  
Response via : Initial Calibration



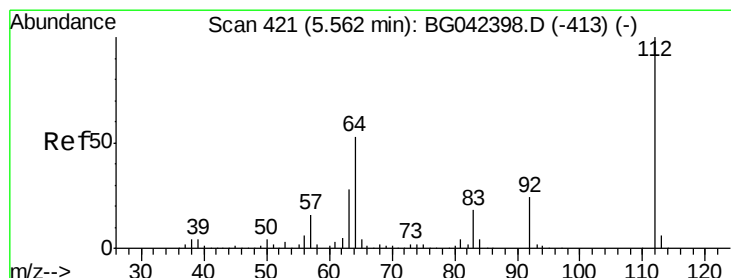
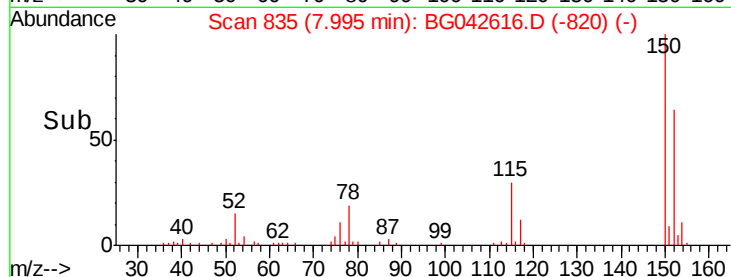
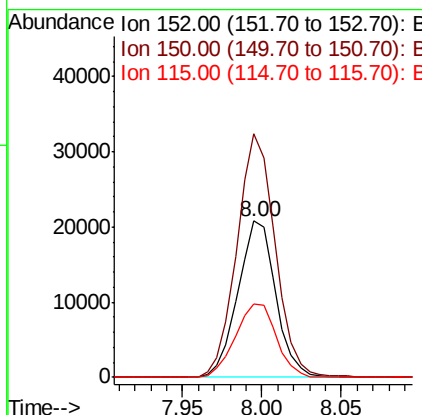
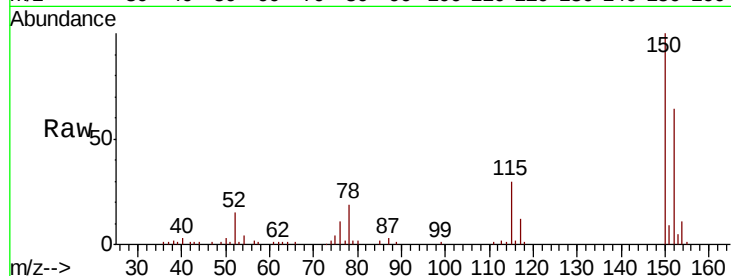


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.00 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Instrument :  
BNA\_G  
ClientSampleId :

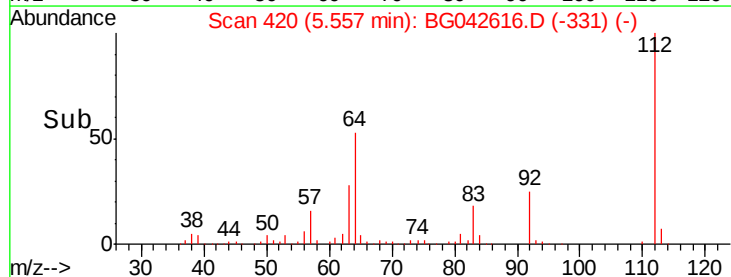
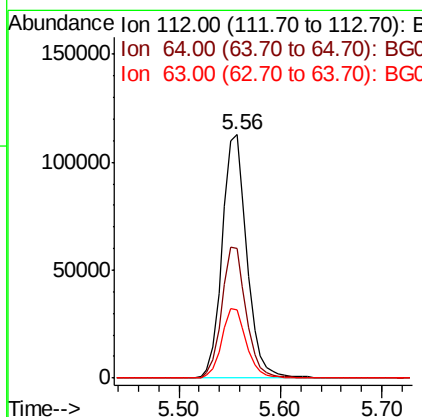
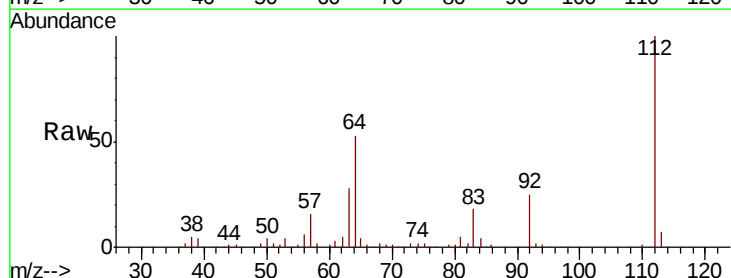
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.8 | 125.4 | 188.0 |
| 115     | 47.2  | 38.5  | 57.7  |

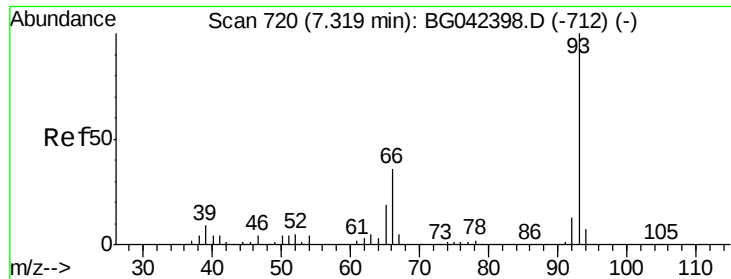


#5

2-Fluorophenol  
Concen: 112.135 ng  
RT: 5.56 min Scan# 420  
Delta R.T. -0.00 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.5  | 42.8  | 64.2  |
| 63      | 27.9  | 22.7  | 34.1  |





#6

Aniline

Concen: 5.673 ng

RT: 7.41 min Scan# 735

Delta R.T. 0.09 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

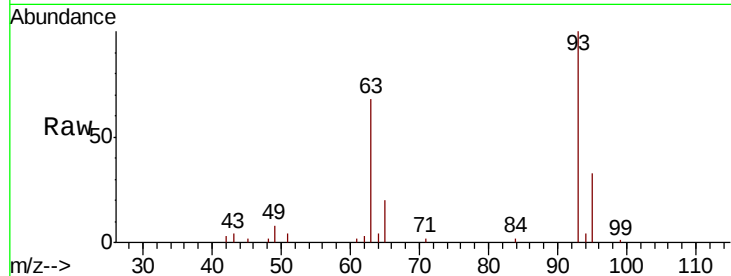
Instrument :

BNA\_G

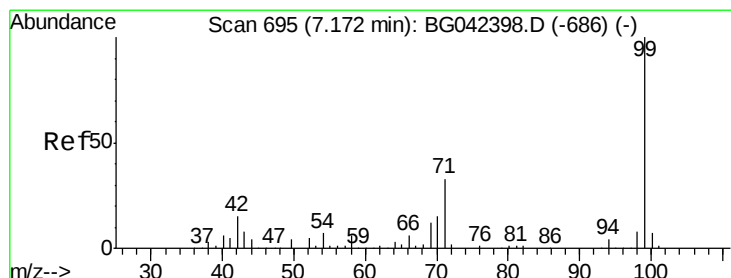
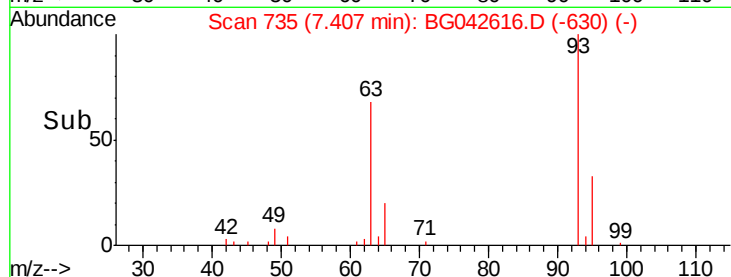
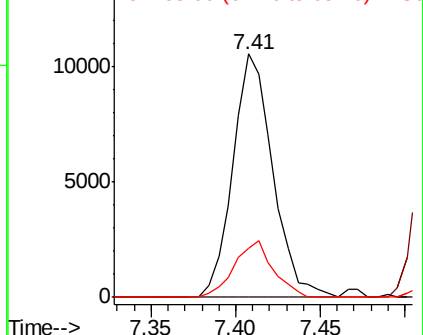
ClientSampled :

Tot Ion: 93 Resp: 17368

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 66  | 0.0   | 29.0  | 43.6# |
| 65  | 20.1  | 15.2  | 22.8  |



Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC



#7

Phenol-d6

Concen: 109.289 ng

RT: 7.16 min Scan# 693

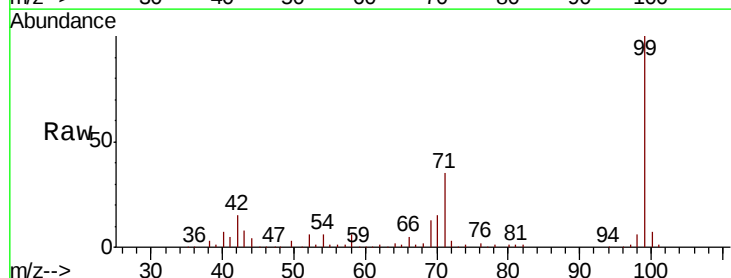
Delta R.T. -0.01 min

Lab File: BG042616.D

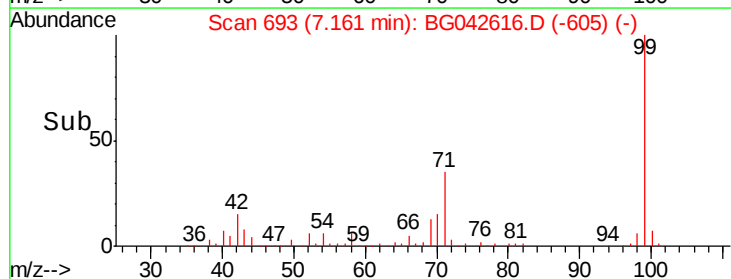
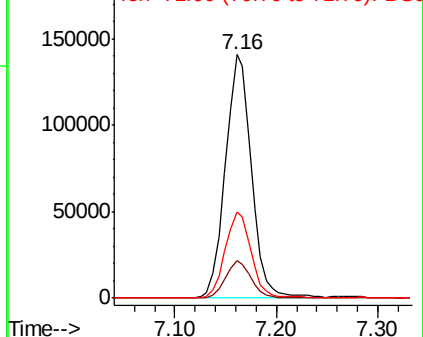
Acq: 31 Aug 2019 1:07

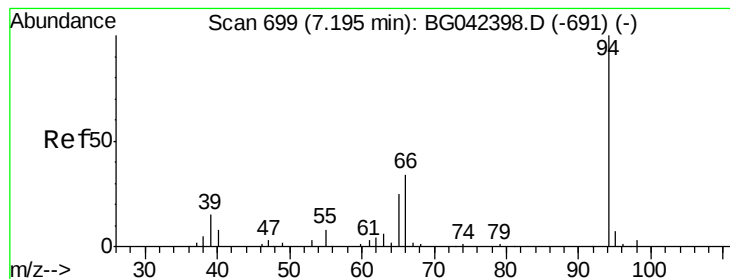
Tgt Ion: 99 Resp: 250868

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.3  | 12.0  | 18.0  |
| 71  | 35.4  | 26.3  | 39.5  |



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC





#10

Phenol

Concen: 9.137 ng

RT: 7.18 min Scan# 697

Delta R.T. -0.01 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

Instrument :

BNA\_G

ClientSampleId :

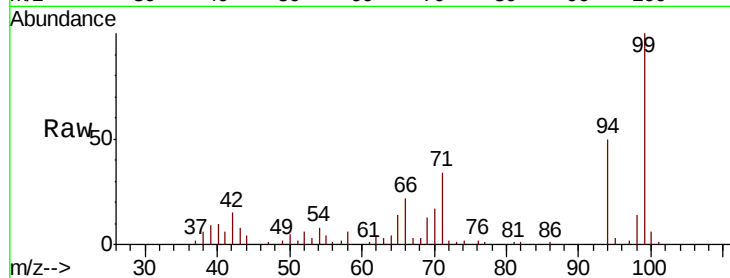
Tot Ion: 94 Resp: 21324

Ion Ratio Lower Upper

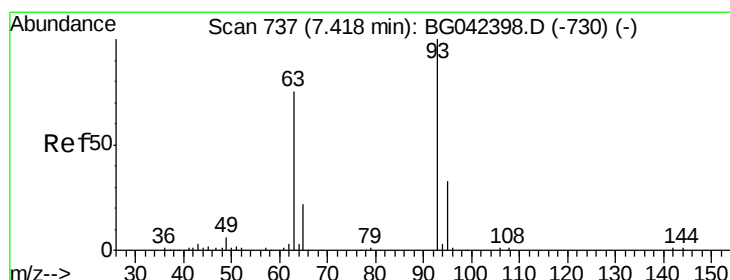
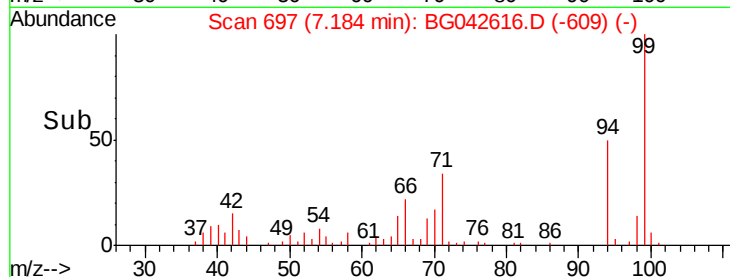
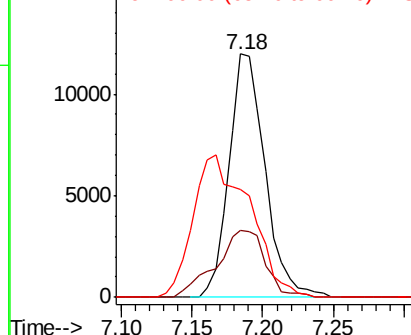
94 100

65 27.6 5.6 45.6

66 44.5 16.0 56.0



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



#11

bis(2-Chloroethyl)ether

Concen: 9.475 ng

RT: 7.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

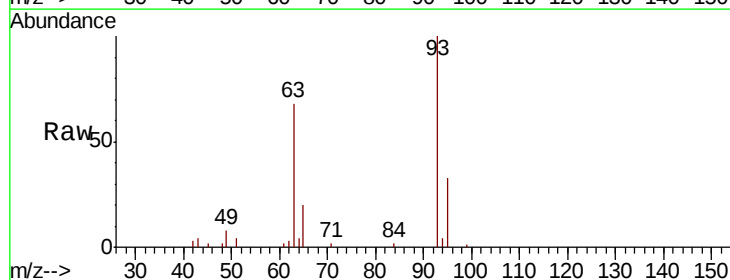
Tgt Ion: 93 Resp: 17368

Ion Ratio Lower Upper

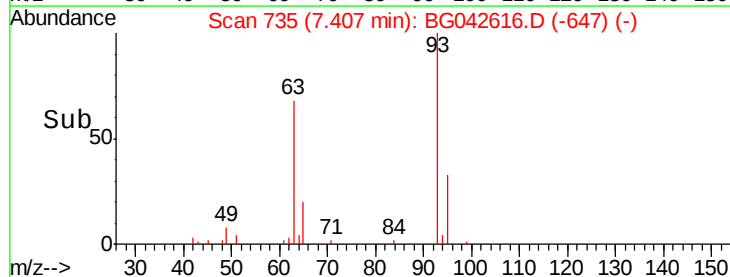
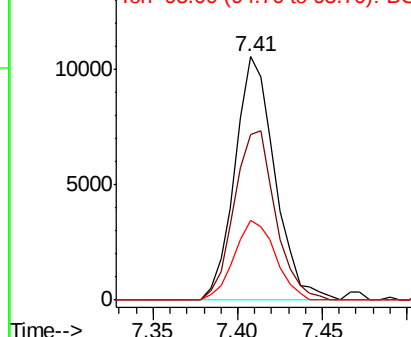
93 100

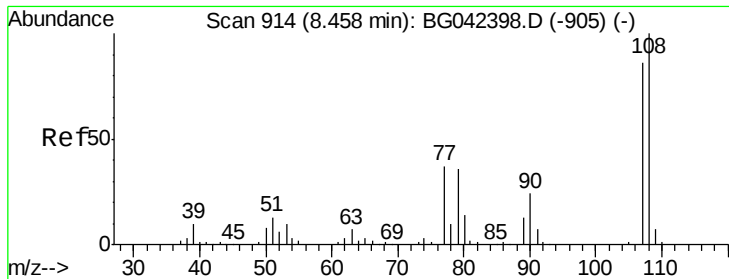
63 68.2 53.8 93.8

95 32.5 13.1 53.1



Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC

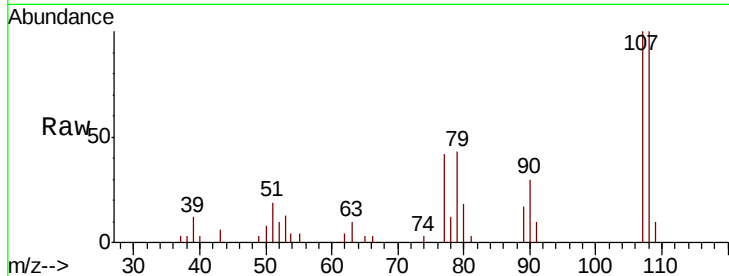




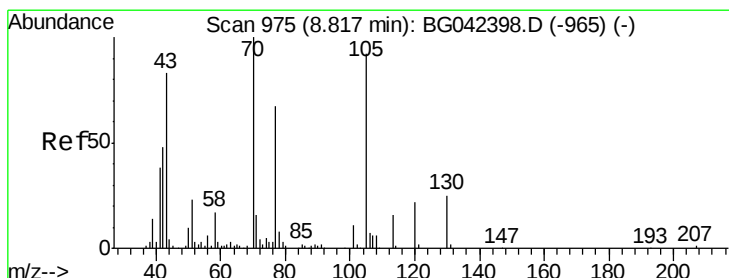
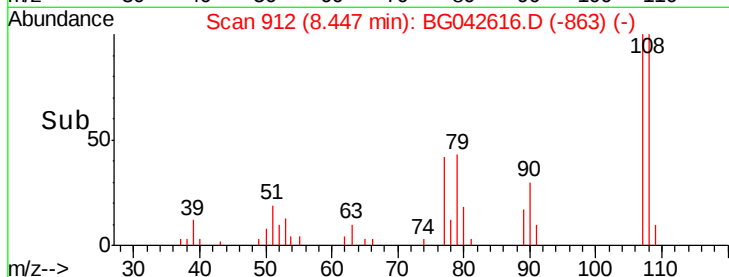
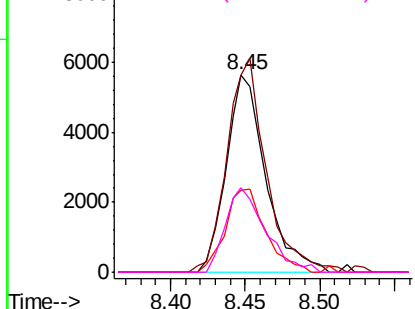
#17  
2-Methylphenol  
Concen: 6.060 ng  
RT: 8.45 min Scan# 912  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 107   | Resp: | 10417 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 100.1 | 92.9  | 139.3 |
| 77       | 41.6  | 34.4  | 51.6  |
| 79       | 42.8  | 33.8  | 50.6  |

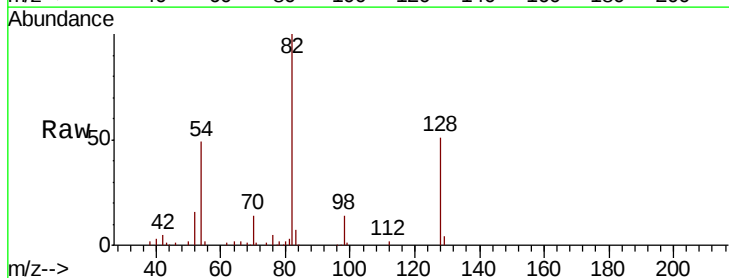


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BGC  
Ion 79.00 (78.70 to 79.70): BGC

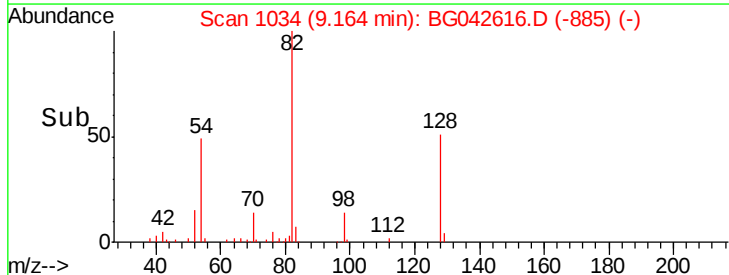
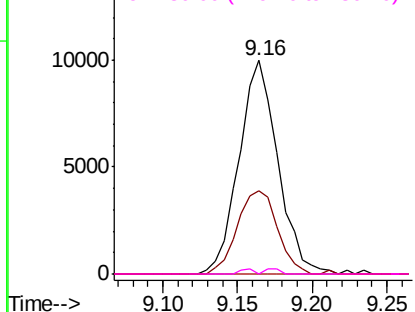


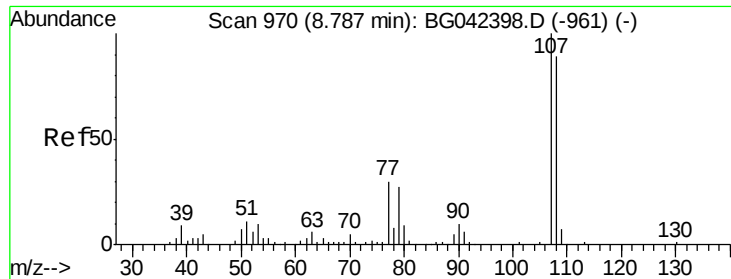
#19  
n-Nitroso-di-n-propylamine  
Concen: 12.105 ng  
RT: 9.16 min Scan# 1034  
Delta R.T. 0.35 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 18001 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 38.9  | 38.8  | 58.2  |
| 101      | 0.0   | 9.0   | 13.6# |
| 130      | 0.0   | 20.0  | 30.0# |



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E





#20

3+4-Methylphenols

Concen: 4.379 ng

RT: 8.45 min Scan# 912

Delta R.T. -0.34 min

Lab File: BG042616.D

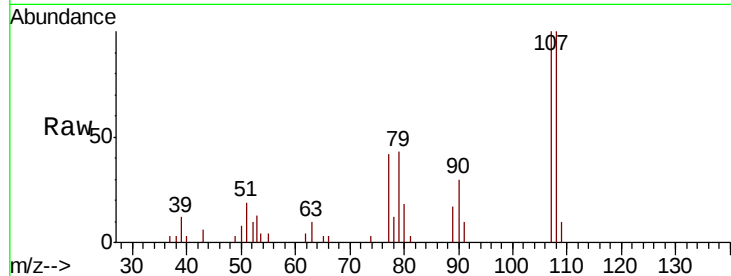
Acq: 31 Aug 2019 1:07

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 107   | Resp: | 10417 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 100.1 | 68.7  | 108.7 |
| 77       | 41.6  | 10.2  | 50.2  |
| 79       | 42.8  | 6.9   | 46.9  |



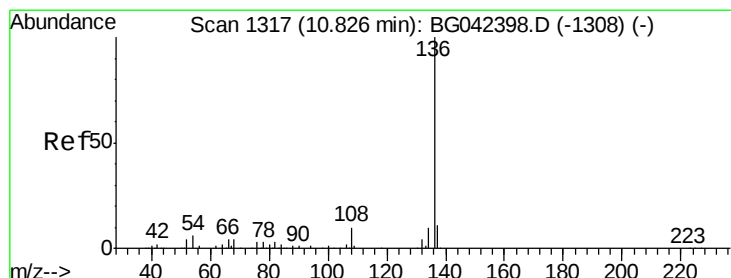
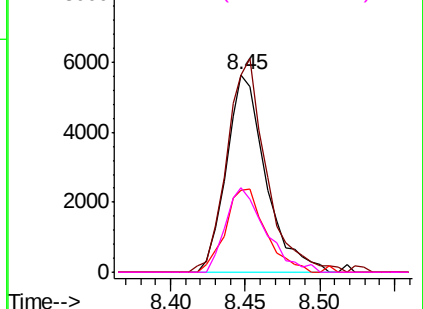
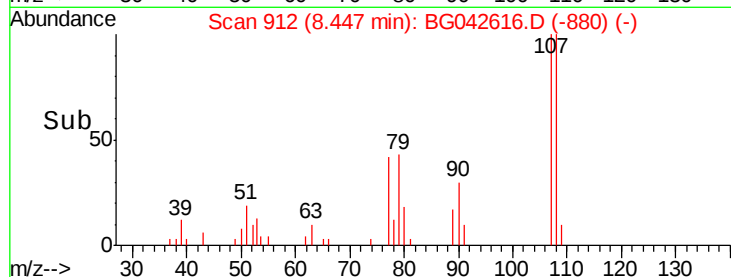
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

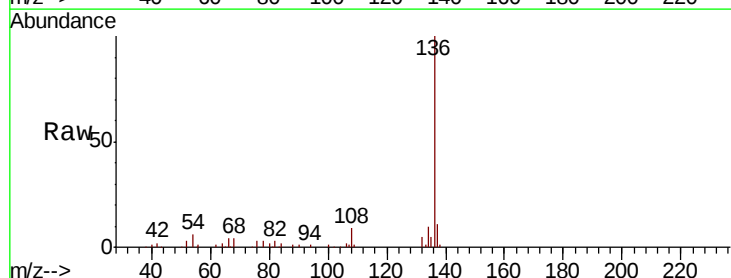
RT: 10.82 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 135345 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.7   | 13.1   |
| 54       | 6.0   | 4.9   | 7.3    |
| 68       | 3.7   | 3.6   | 5.4    |



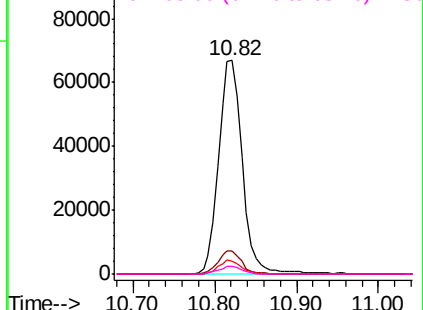
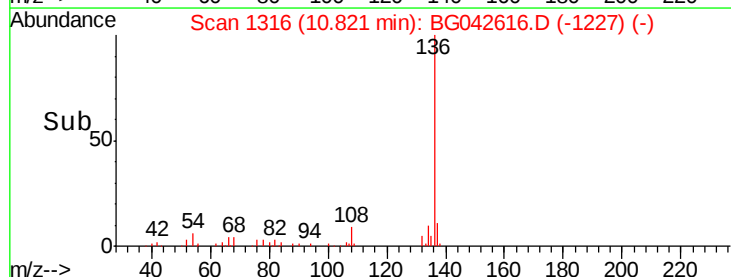
Abundance

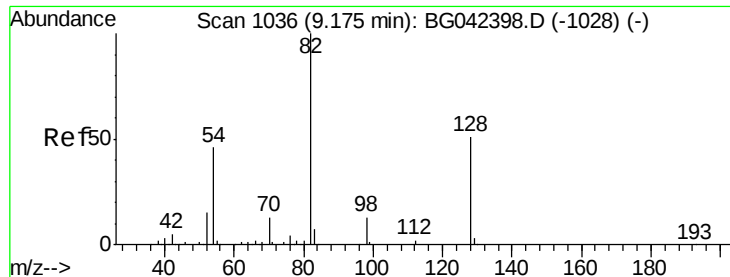
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC

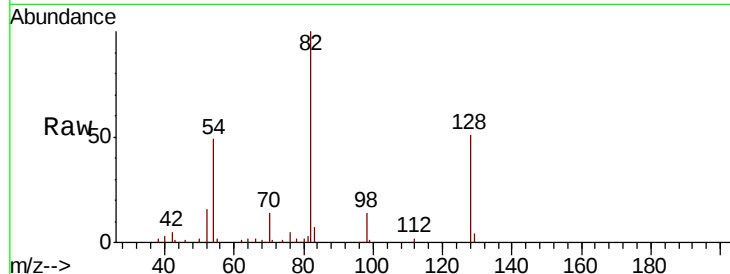




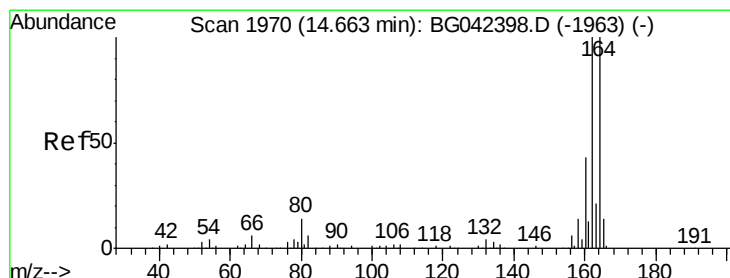
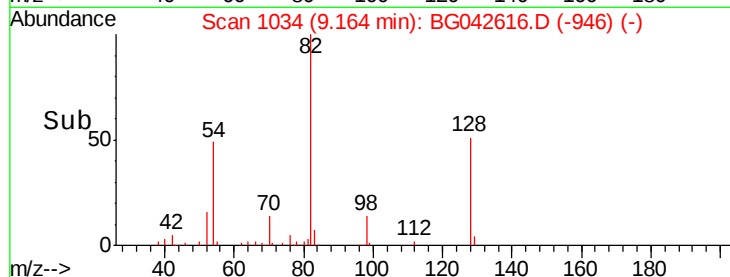
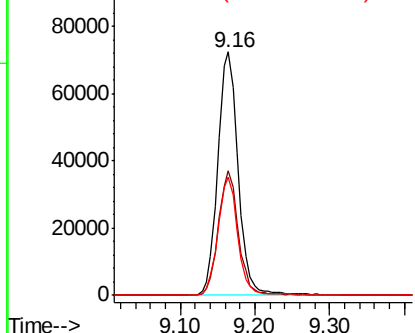
#23  
Nitrobenzene-d5  
Concen: 70.351 ng  
RT: 9.16 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion: 82 Resp: 137788  
Ion Ratio Lower Upper  
82 100  
128 51.0 40.7 61.1  
54 48.7 36.3 54.5

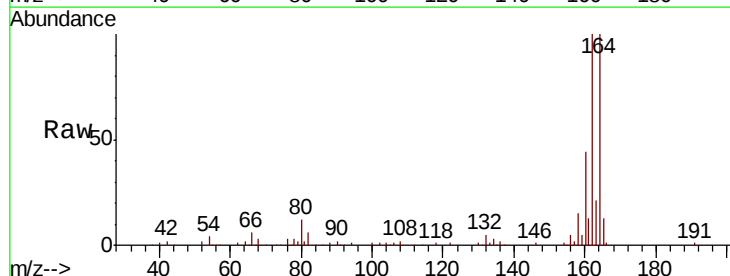


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

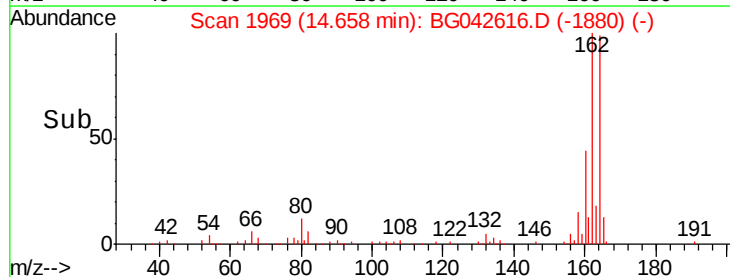
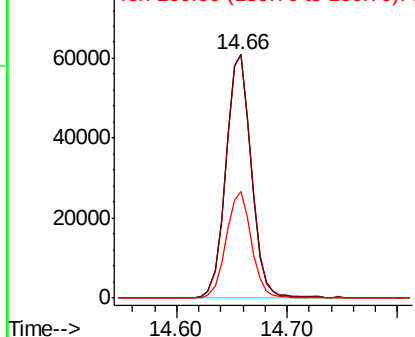


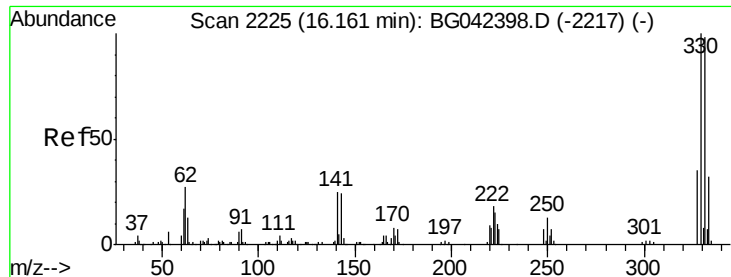
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.66 min Scan# 1969  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Tgt Ion:164 Resp: 97946  
Ion Ratio Lower Upper  
164 100  
162 100.2 79.9 119.9  
160 44.1 34.3 51.5



Abundance Ion 164.00 (163.70 to 164.70): BGC  
Ion 162.00 (161.70 to 162.70): BGC  
Ion 160.00 (159.70 to 160.70): BGC





#42

2,4,6-Tribromophenol

Concen: 113.439 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

Instrument :

BNA\_G

ClientSampleId :

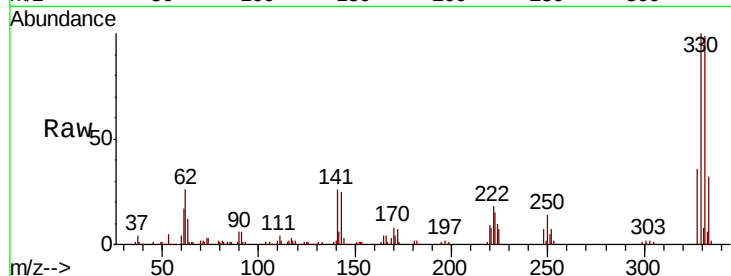
Tot Ion:330 Resp: 157923

Ion Ratio Lower Upper

330 100

332 98.0 77.4 116.0

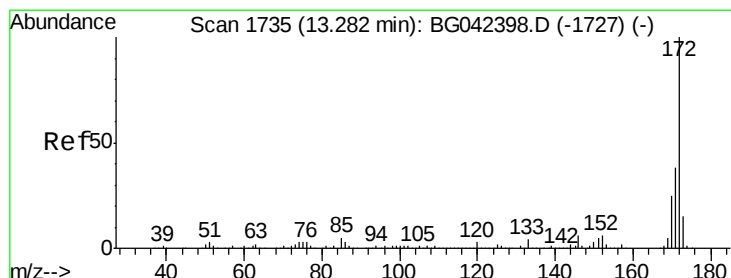
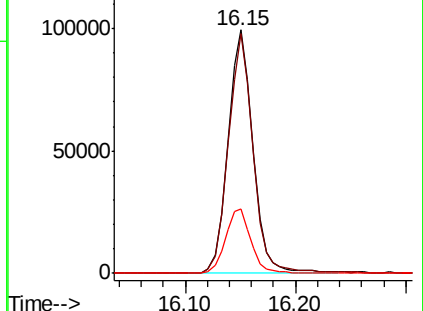
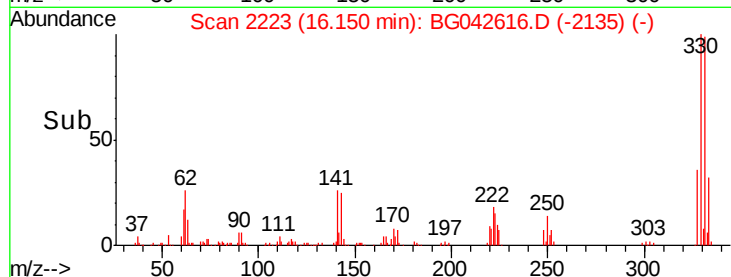
141 27.0 21.4 32.0



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 68.250 ng

RT: 13.28 min Scan# 1734

Delta R.T. -0.00 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

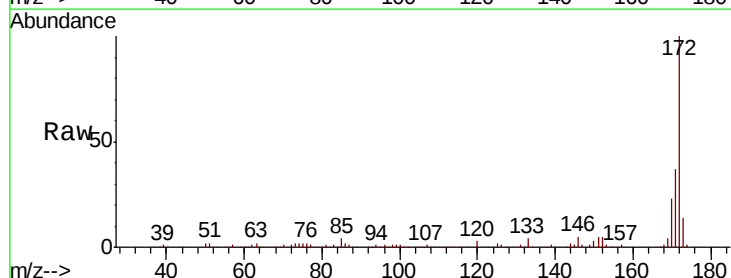
Tgt Ion:172 Resp: 395252

Ion Ratio Lower Upper

172 100

171 36.8 30.5 45.7

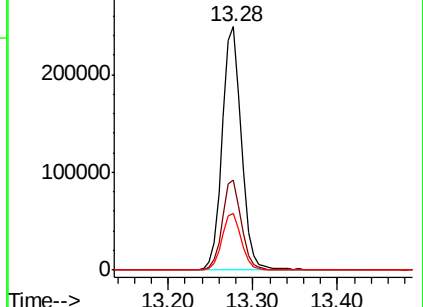
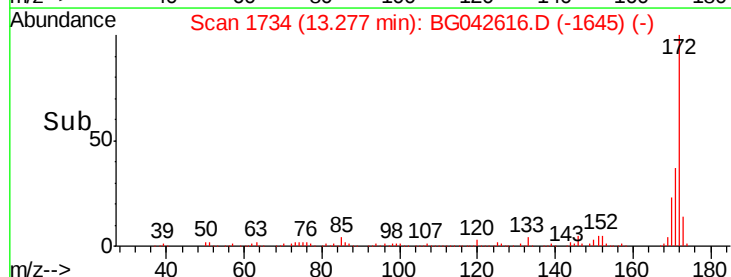
170 23.2 20.2 30.2

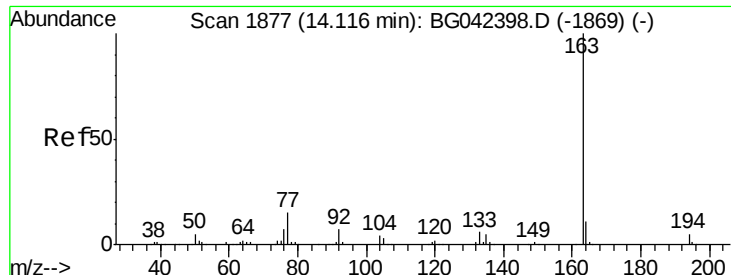


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

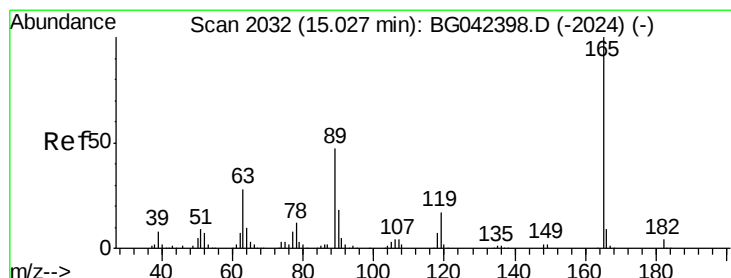
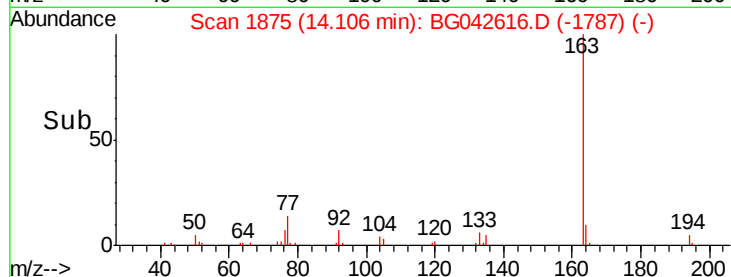
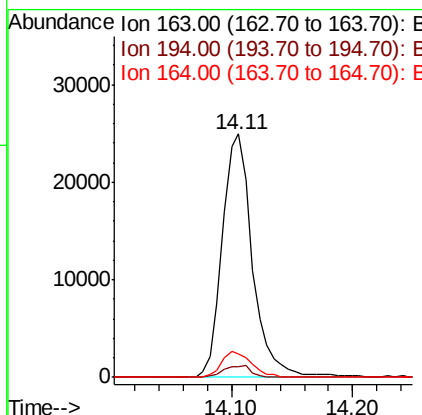
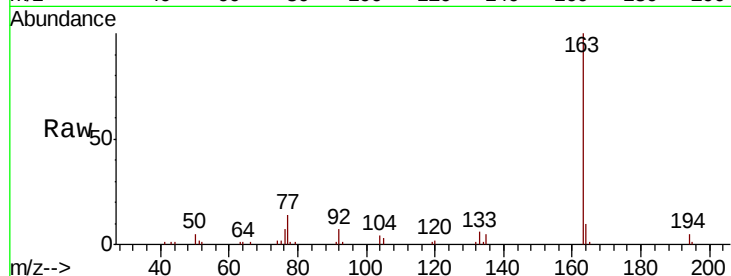




#50  
Dimethylphthalate  
Concen: 6.098 ng  
RT: 14.11 min Scan# 1875  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

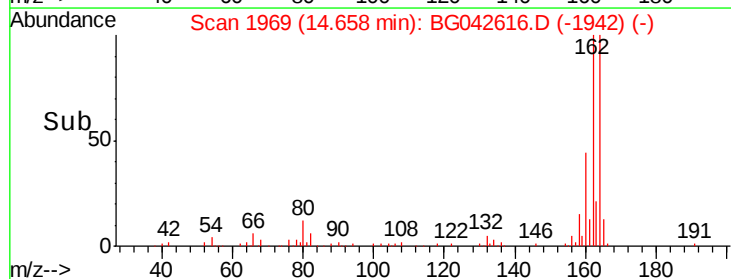
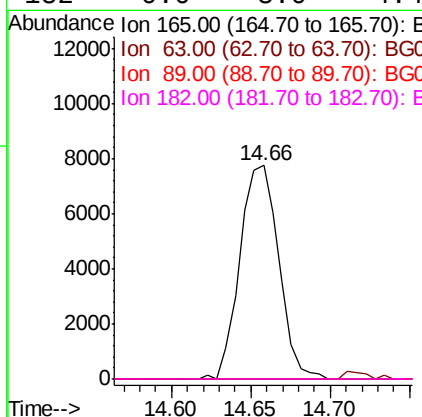
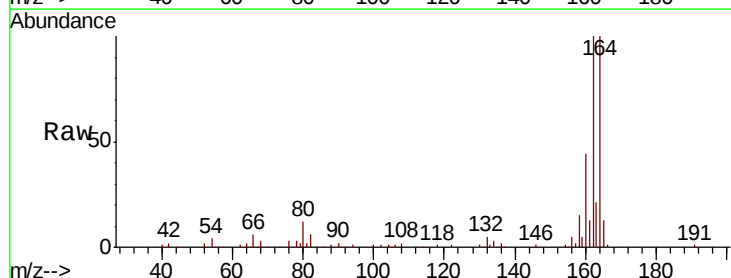
Instrument :  
BNA\_G  
ClientSampleId :

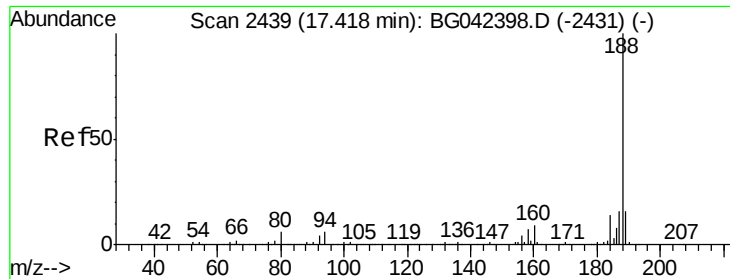
Tot Ion:163 Resp: 43098  
Ion Ratio Lower Upper  
163 100  
194 4.6 4.2 6.2  
164 9.6 8.8 13.2



#57  
2,4-Dinitrotoluene  
Concen: 5.620 ng  
RT: 14.66 min Scan# 1969  
Delta R.T. -0.37 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Tgt Ion:165 Resp: 13184  
Ion Ratio Lower Upper  
165 100  
63 0.0 22.5 33.7#  
89 0.0 37.8 56.6#  
182 0.0 3.0 4.4#

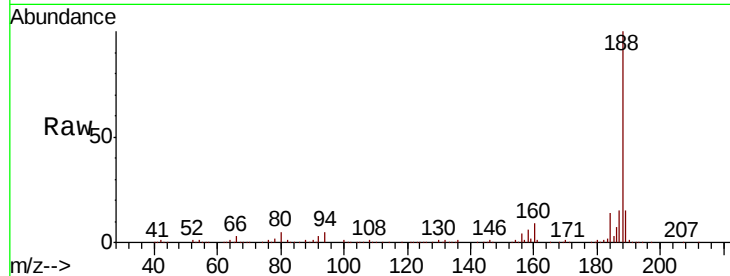




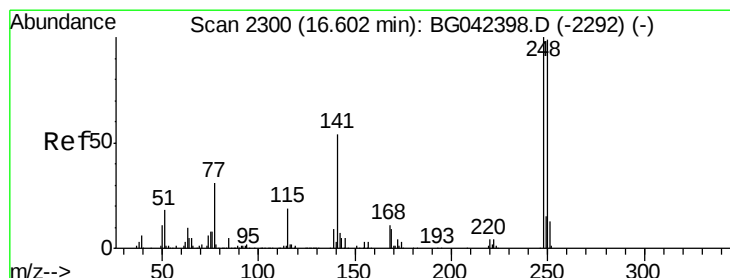
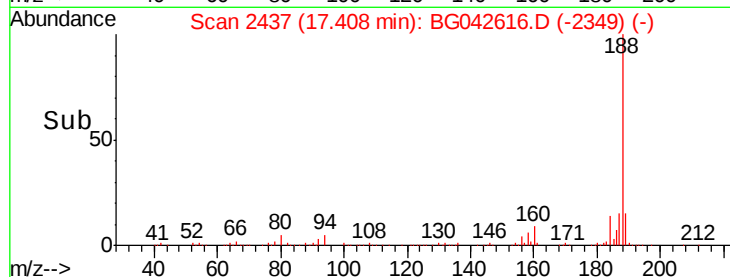
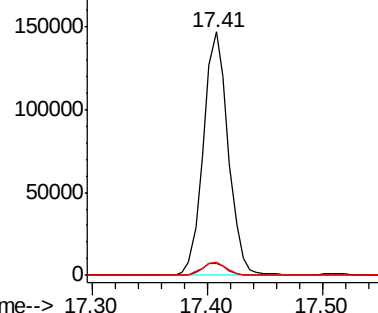
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2437  
 Delta R.T. -0.01 min  
 Lab File: BG042616.D  
 Acq: 31 Aug 2019 1:07

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:188 Resp: 219180  
 Ion Ratio Lower Upper  
 188 100  
 94 5.0 4.5 6.7  
 80 5.3 4.9 7.3

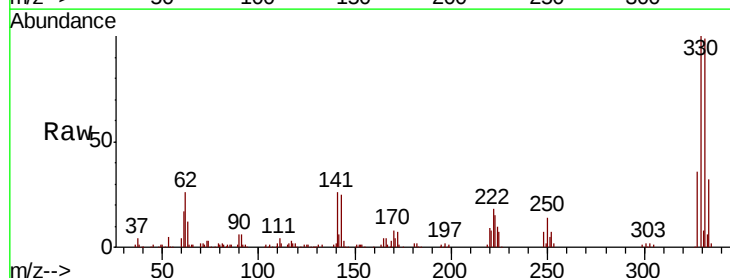


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGC  
 Ion 80.00 (79.70 to 80.70): BGC

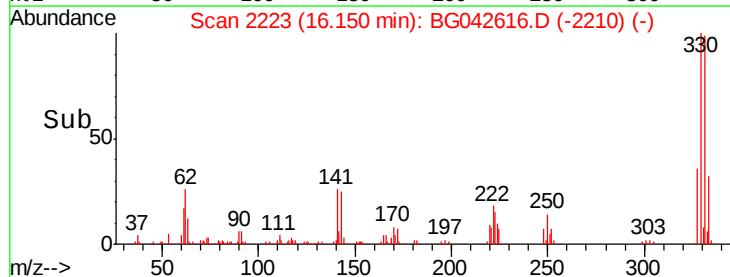
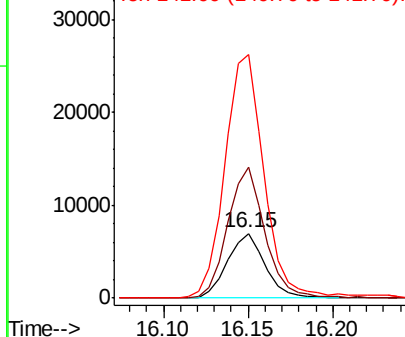


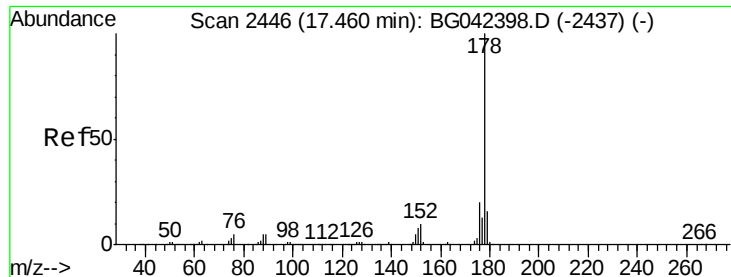
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.890 ng  
 RT: 16.15 min Scan# 2223  
 Delta R.T. -0.45 min  
 Lab File: BG042616.D  
 Acq: 31 Aug 2019 1:07

Tgt Ion:248 Resp: 10816  
 Ion Ratio Lower Upper  
 248 100  
 250 201.6 78.9 118.3#  
 141 374.8 43.3 64.9#



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

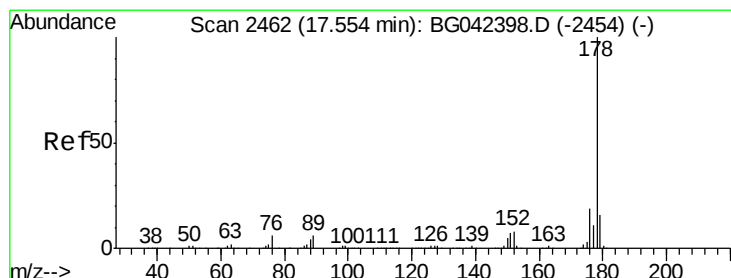
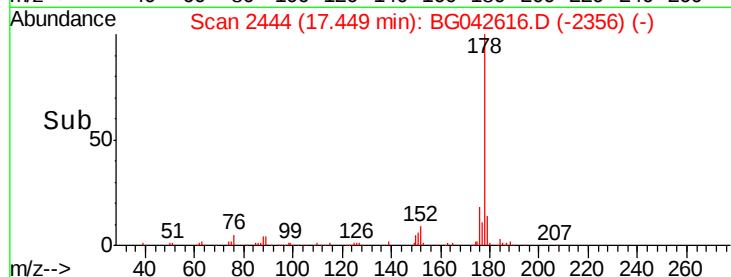
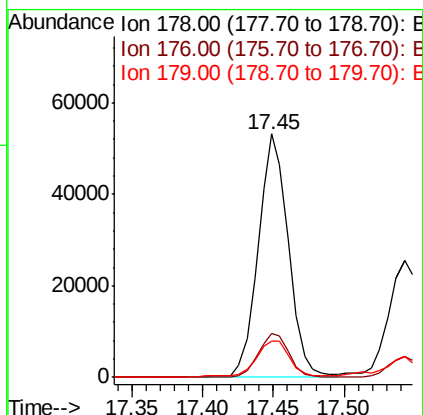
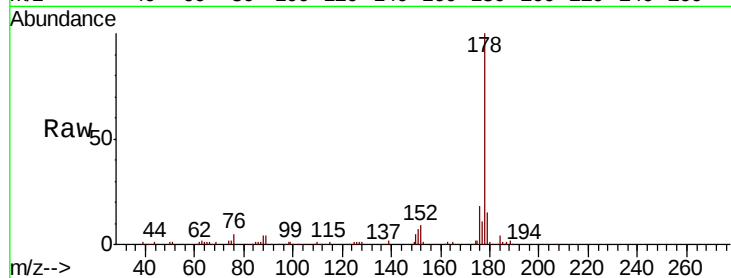




#71  
Phenanthrene  
Concen: 7.350 ng  
RT: 17.45 min Scan# 2444  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

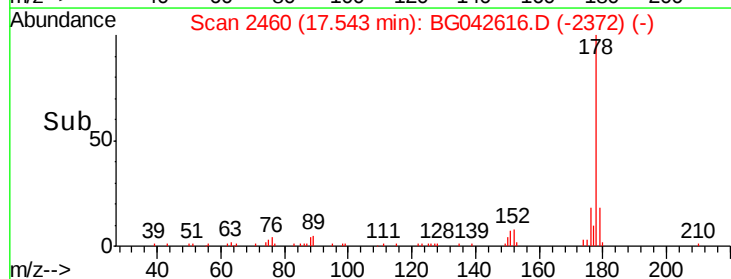
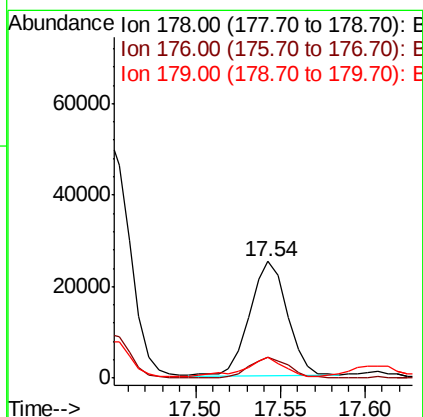
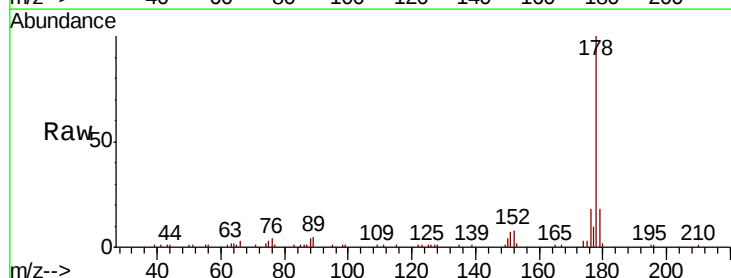
Instrument :  
BNA\_G  
ClientSampleId :

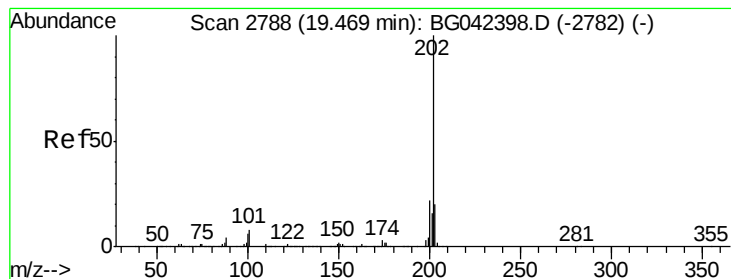
Tot Ion:178 Resp: 80023  
Ion Ratio Lower Upper  
178 100  
176 17.9 15.9 23.9  
179 14.7 12.7 19.1



#72  
Anthracene  
Concen: 3.606 ng  
RT: 17.54 min Scan# 2460  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Tgt Ion:178 Resp: 39190  
Ion Ratio Lower Upper  
178 100  
176 18.2 15.5 23.3  
179 17.5 12.9 19.3





#75

Fluoranthene

Concen: 22.422 ng

RT: 19.46 min Scan# 2787

Delta R.T. -0.00 min

Lab File: BG042616.D

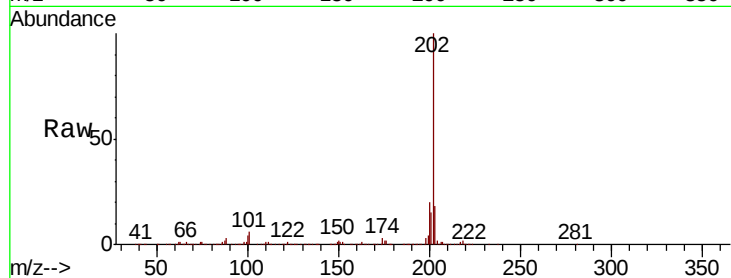
Acq: 31 Aug 2019 1:07

Instrument :

BNA\_G

ClientSampled :

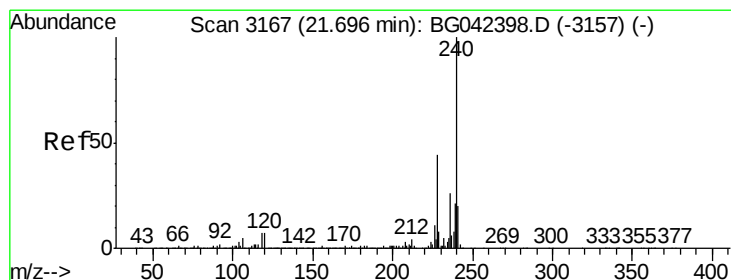
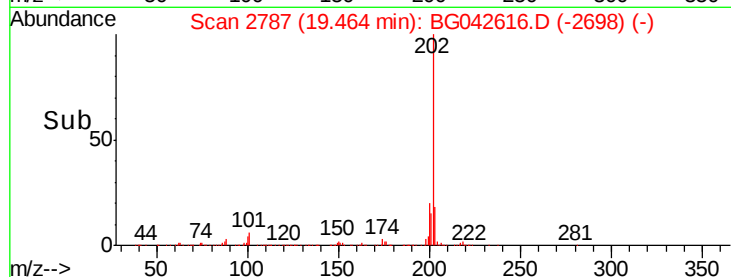
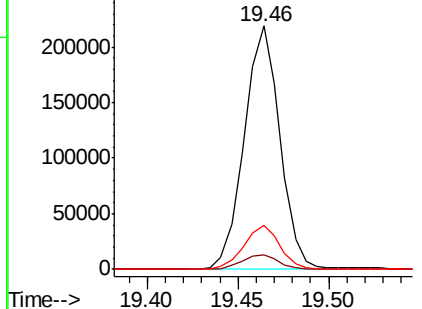
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 297911 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 5.8   | 0.0   | 28.3   |
| 203      | 18.1  | 0.0   | 39.6   |



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

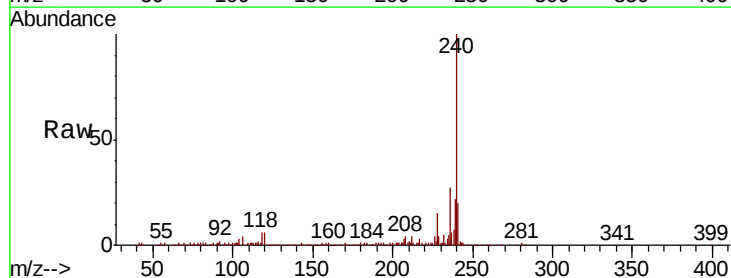
RT: 21.68 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

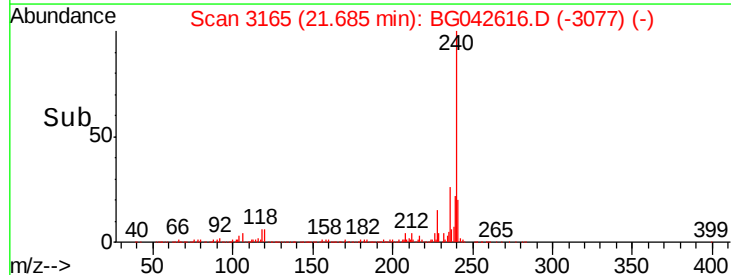
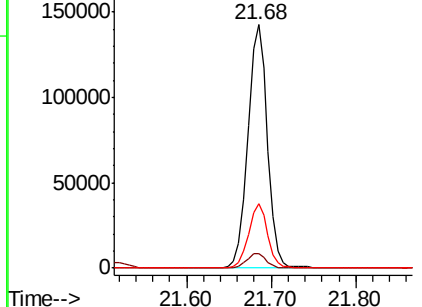
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 229599 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 6.1   | 5.7   | 8.5    |
| 236      | 26.5  | 21.0  | 31.4   |

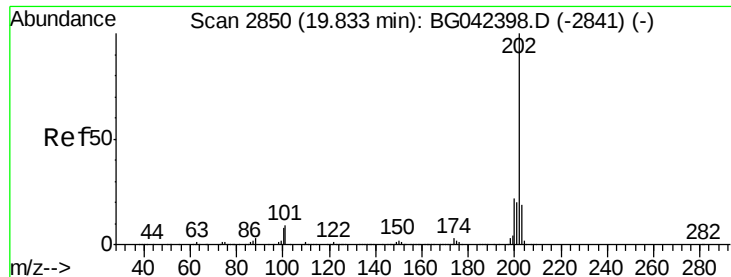


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

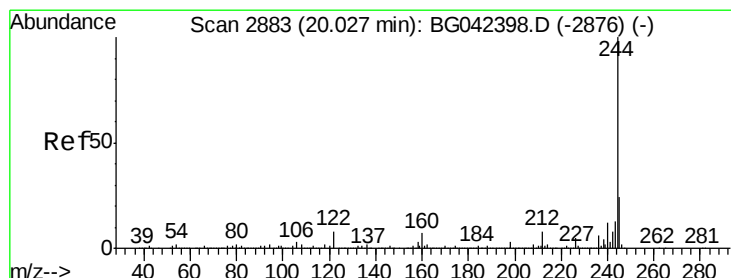
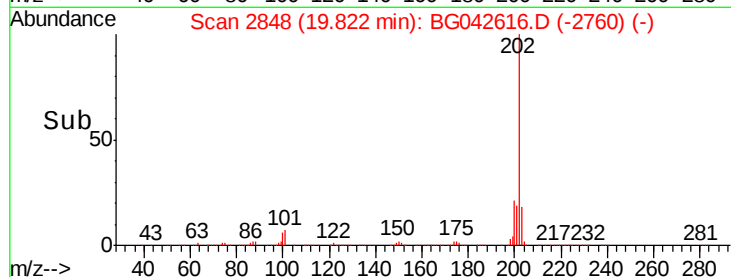
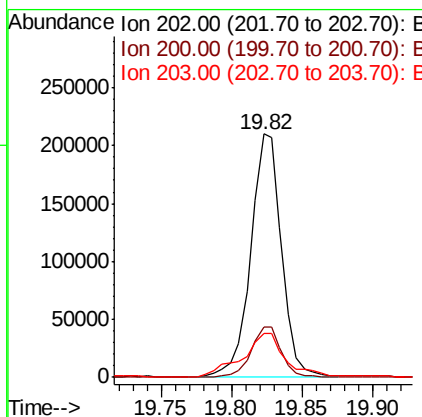
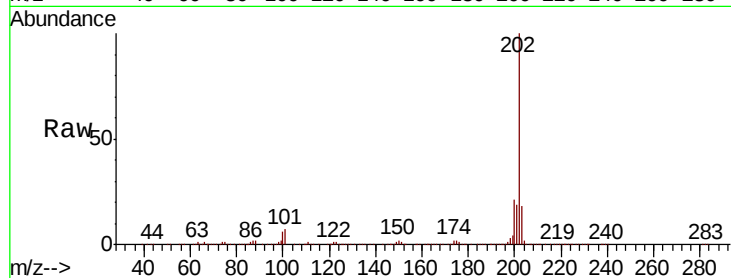




#78  
Pvrene  
Concen: 22.827 ng  
RT: 19.82 min Scan# 2848  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

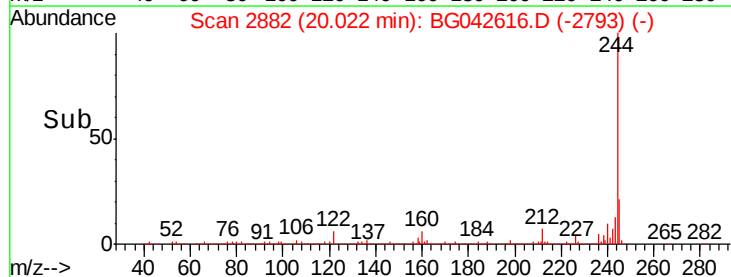
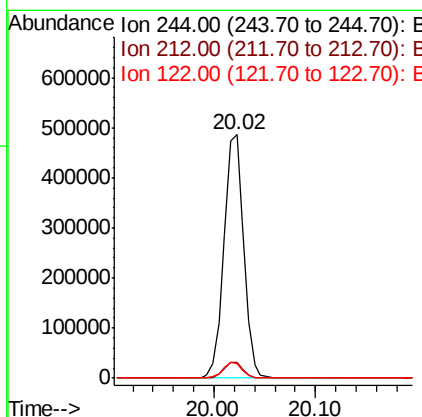
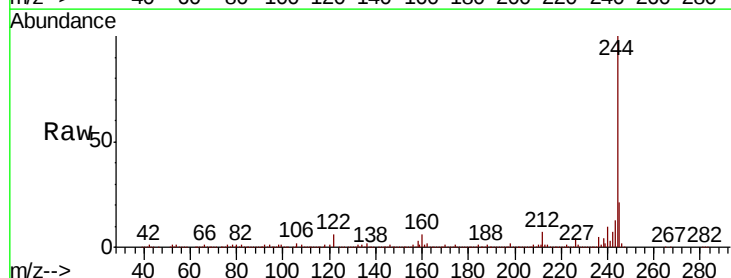
Instrument :  
BNA\_G  
ClientSampleId :

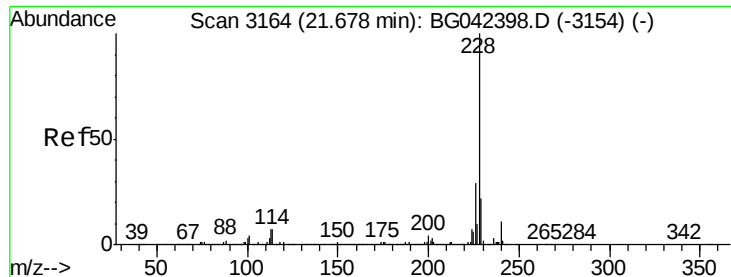
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.6  | 17.8  | 26.6  |
| 203     | 18.0  | 15.5  | 23.3  |



#79  
Terphenyl-d14  
Concen: 61.671 ng  
RT: 20.02 min Scan# 2882  
Delta R.T. -0.00 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 6.0   | 9.0   |
| 122     | 6.0   | 6.7   | 10.1# |





#81

Benzo(a)anthracene

Concen: 11.942 ng

RT: 21.66 min Scan# 3161

Delta R.T. -0.02 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

Instrument :

BNA\_G

ClientSampleId :

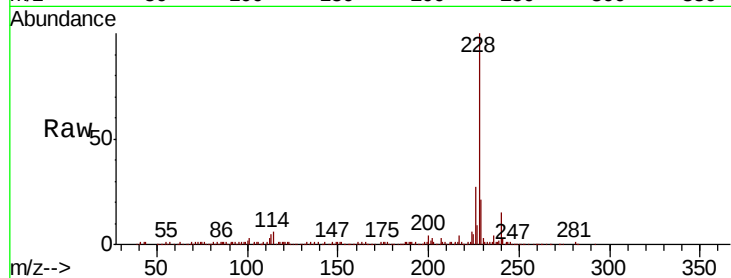
Tot Ion:228 Resp: 166794

Ion Ratio Lower Upper

228 100

226 27.0 23.4 35.2

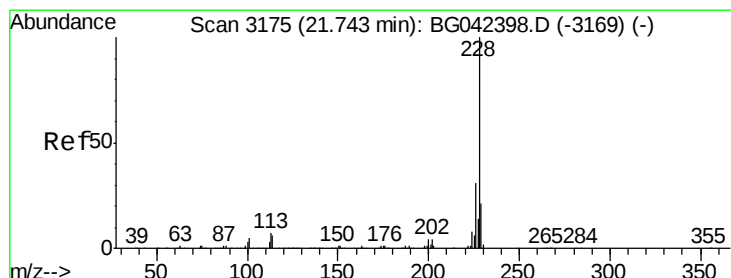
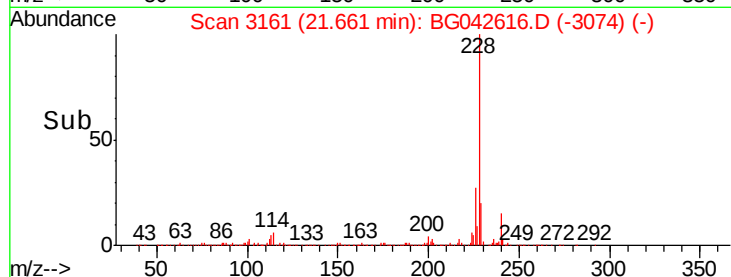
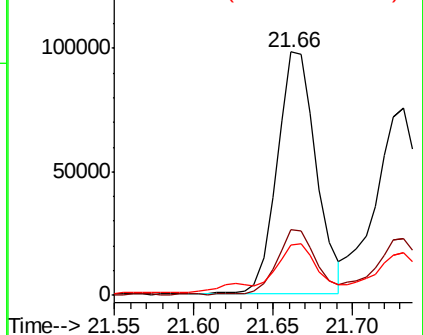
229 20.8 17.4 26.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 10.390 ng

RT: 21.73 min Scan# 3173

Delta R.T. -0.01 min

Lab File: BG042616.D

Acq: 31 Aug 2019 1:07

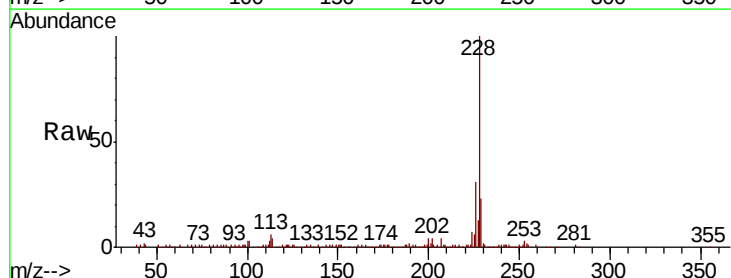
Tgt Ion:228 Resp: 139949

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

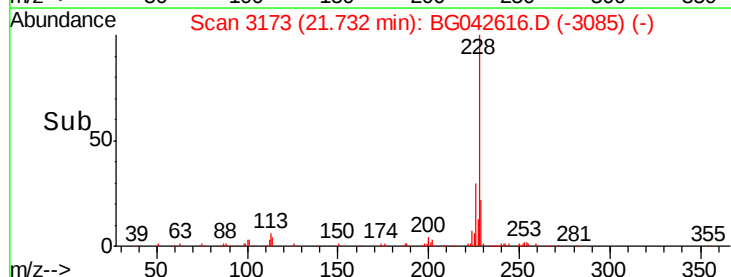
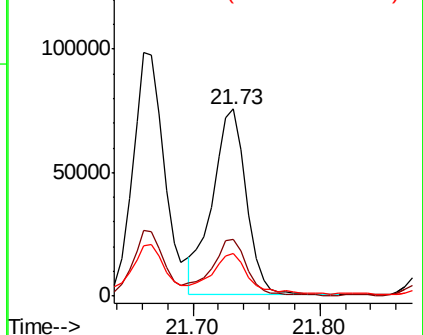
229 22.6 16.9 25.3

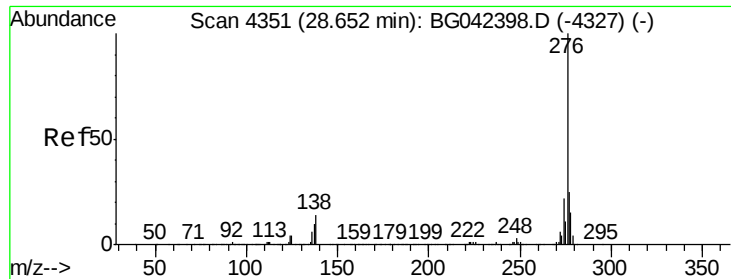


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

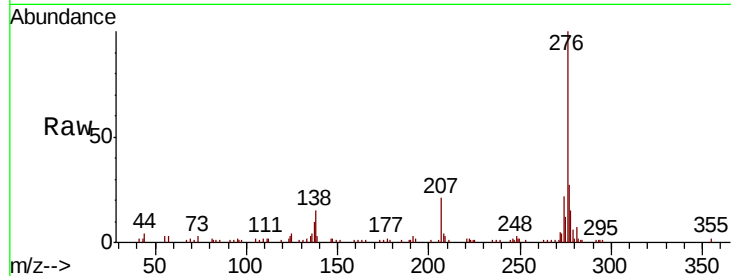




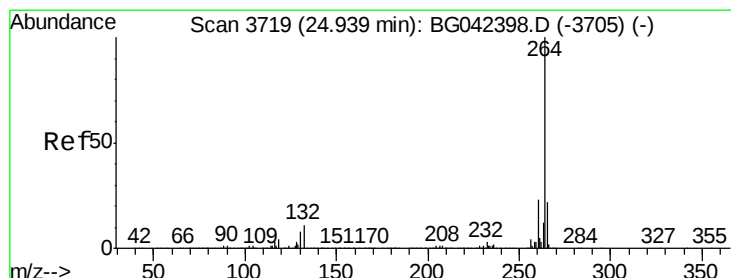
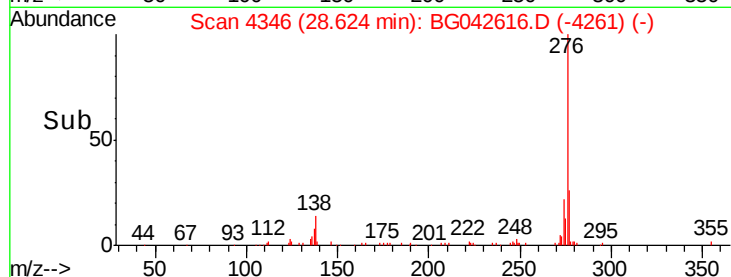
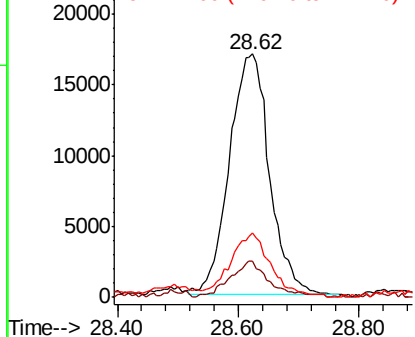
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 4.281 ng  
RT: 28.62 min Scan# 4346  
Delta R.T. -0.03 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.7  | 9.2   | 13.8# |
| 277     | 27.1  | 21.0  | 31.6  |

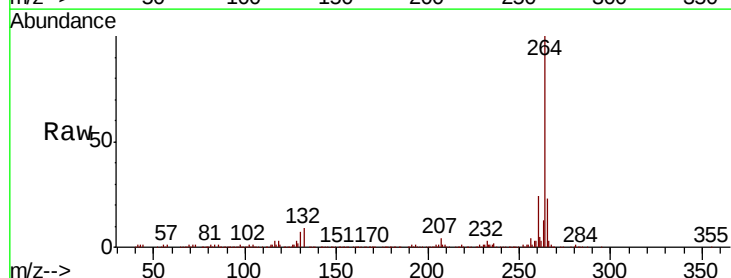


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

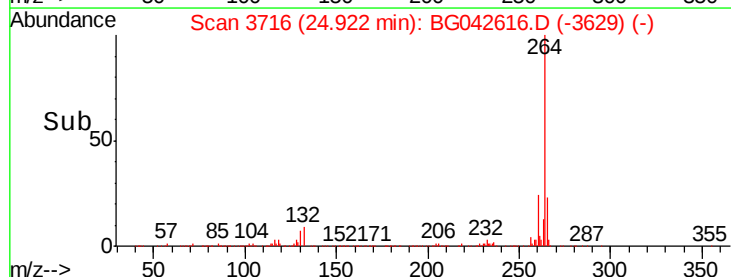
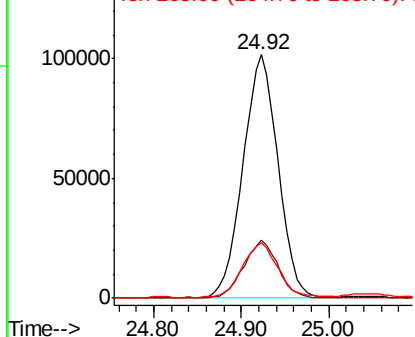


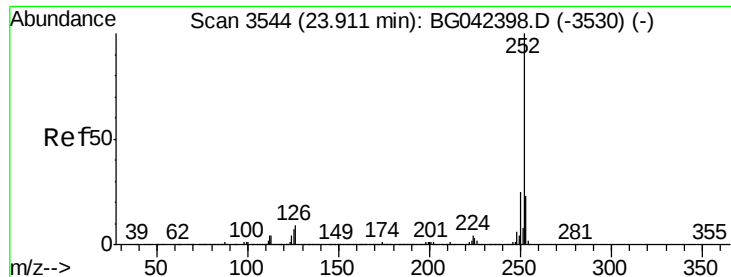
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.92 min Scan# 3716  
Delta R.T. -0.02 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 18.5  | 27.7  |
| 265     | 22.9  | 17.6  | 26.4  |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

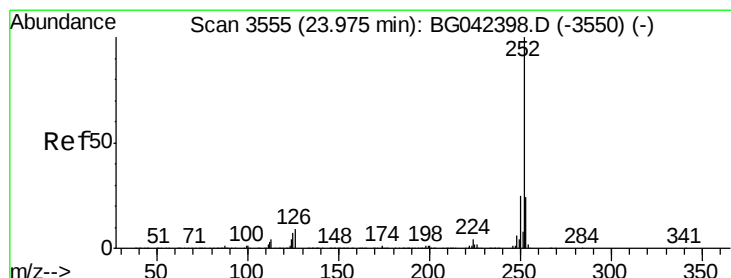
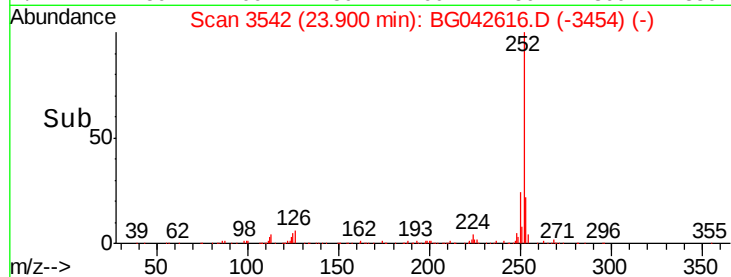
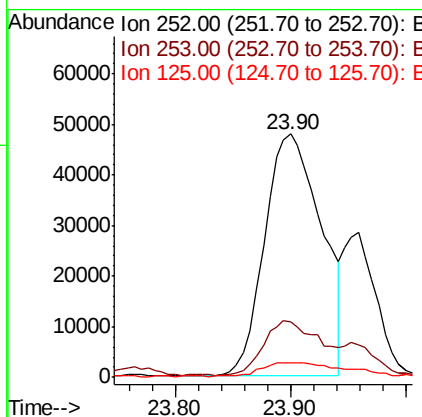
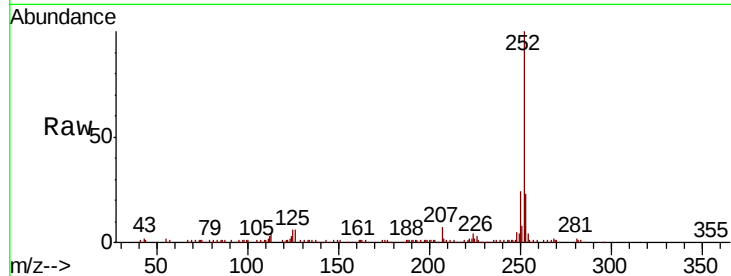




#88  
Benzo(b)fluoranthene  
Concen: 10.783 ng  
RT: 23.90 min Scan# 3542  
Delta R.T. -0.01 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

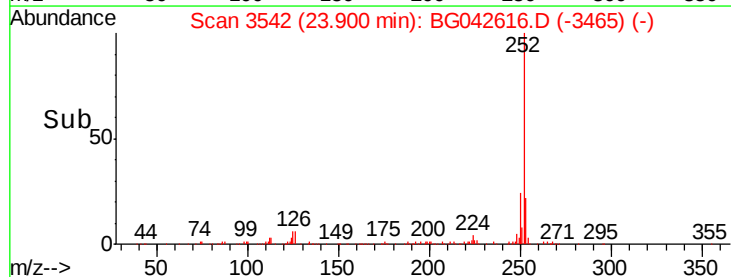
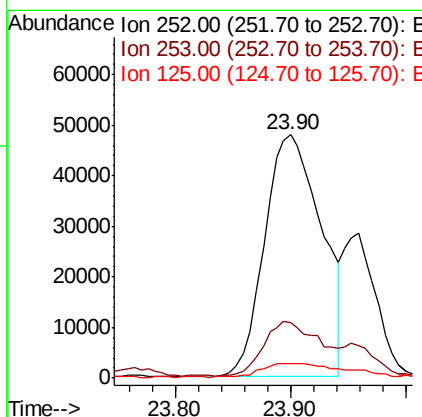
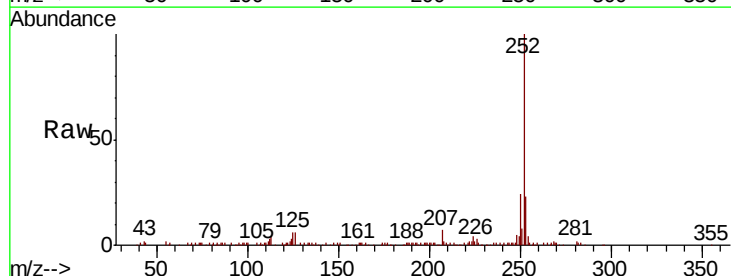
Instrument :  
BNA\_G  
ClientSampleId :

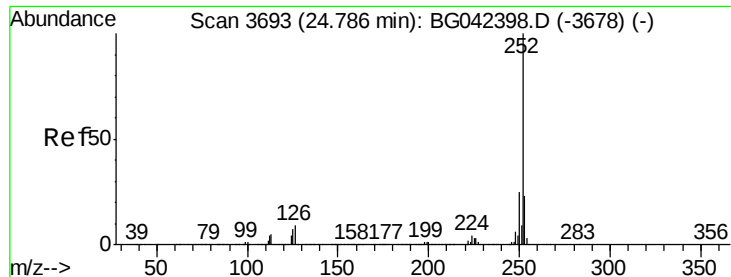
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 18.6  | 27.8  |
| 125     | 6.1   | 5.6   | 8.4   |



#89  
Benzo(k)fluoranthene  
Concen: 11.219 ng  
RT: 23.90 min Scan# 3542  
Delta R.T. -0.08 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 18.6  | 27.8  |
| 125     | 6.1   | 5.8   | 8.6   |

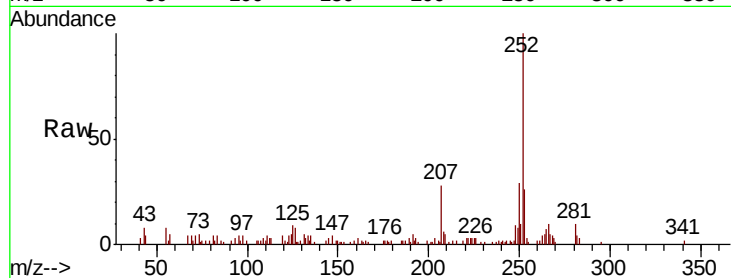




#90  
Benzo(a)pyrene  
Concen: 2.293 ng  
RT: 25.00 min Scan# 3729  
Delta R.T. 0.21 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.2  | 18.4  | 27.6  |
| 125     | 8.7   | 6.0   | 9.0   |

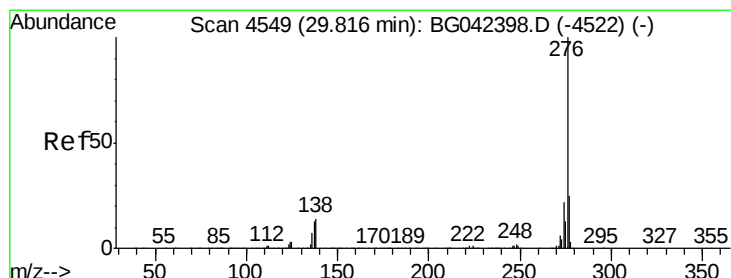
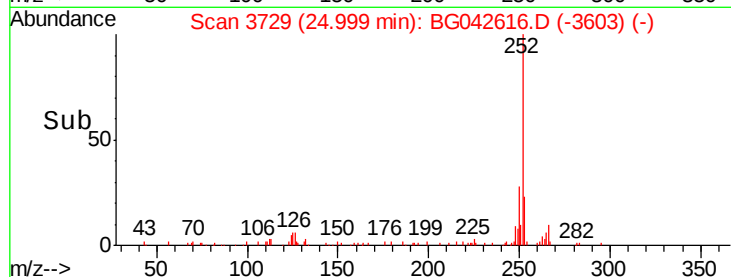
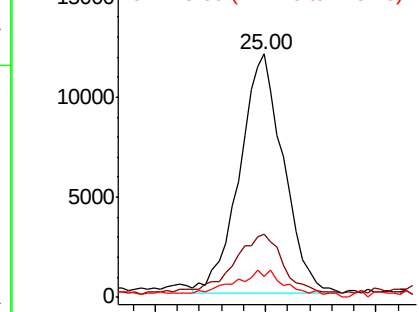


Abundance

Ion 252.00 (251.70 to 252.70): E

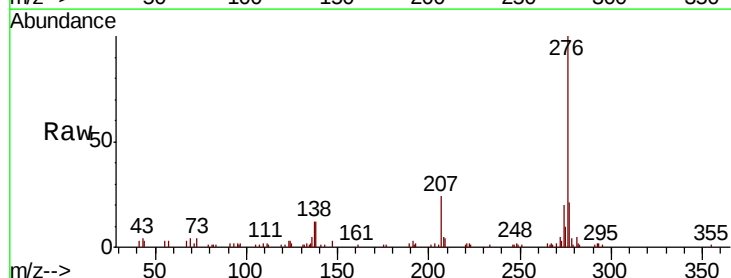
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 5.426 ng  
RT: 29.76 min Scan# 4540  
Delta R.T. -0.05 min  
Lab File: BG042616.D  
Acq: 31 Aug 2019 1:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 21.5  | 19.8  | 29.8  |
| 138     | 12.0  | 11.4  | 17.0  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

