

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090619\  
 Data File : BG042756.D  
 Acq On : 6 Sep 2019 20:31  
 Operator : HP/JU  
 Sample : K4721-11  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 07 01:20:13 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  | 34900    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.82 | 136  | 146373   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.66 | 164  | 120768   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.41 | 188  | 267956   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.69 | 240  | 231462   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.93 | 264  | 273139   | 20.00 | ng    | 0.00     |

|                             |       |     |        |        |    |      |
|-----------------------------|-------|-----|--------|--------|----|------|
| System Monitoring Compounds |       |     |        |        |    |      |
| 5) 2-Fluorophenol           | 5.55  | 112 | 209626 | 121.65 | ng | 0.00 |
| 7) Phenol-d6                | 7.16  | 99  | 292983 | 125.87 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 9.17  | 82  | 163389 | 77.14  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 16.15 | 330 | 222982 | 129.90 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.28 | 172 | 629310 | 88.13  | ng | 0.00 |
| 79) Terphenyl-d14           | 20.02 | 244 | 959861 | 89.65  | ng | 0.00 |

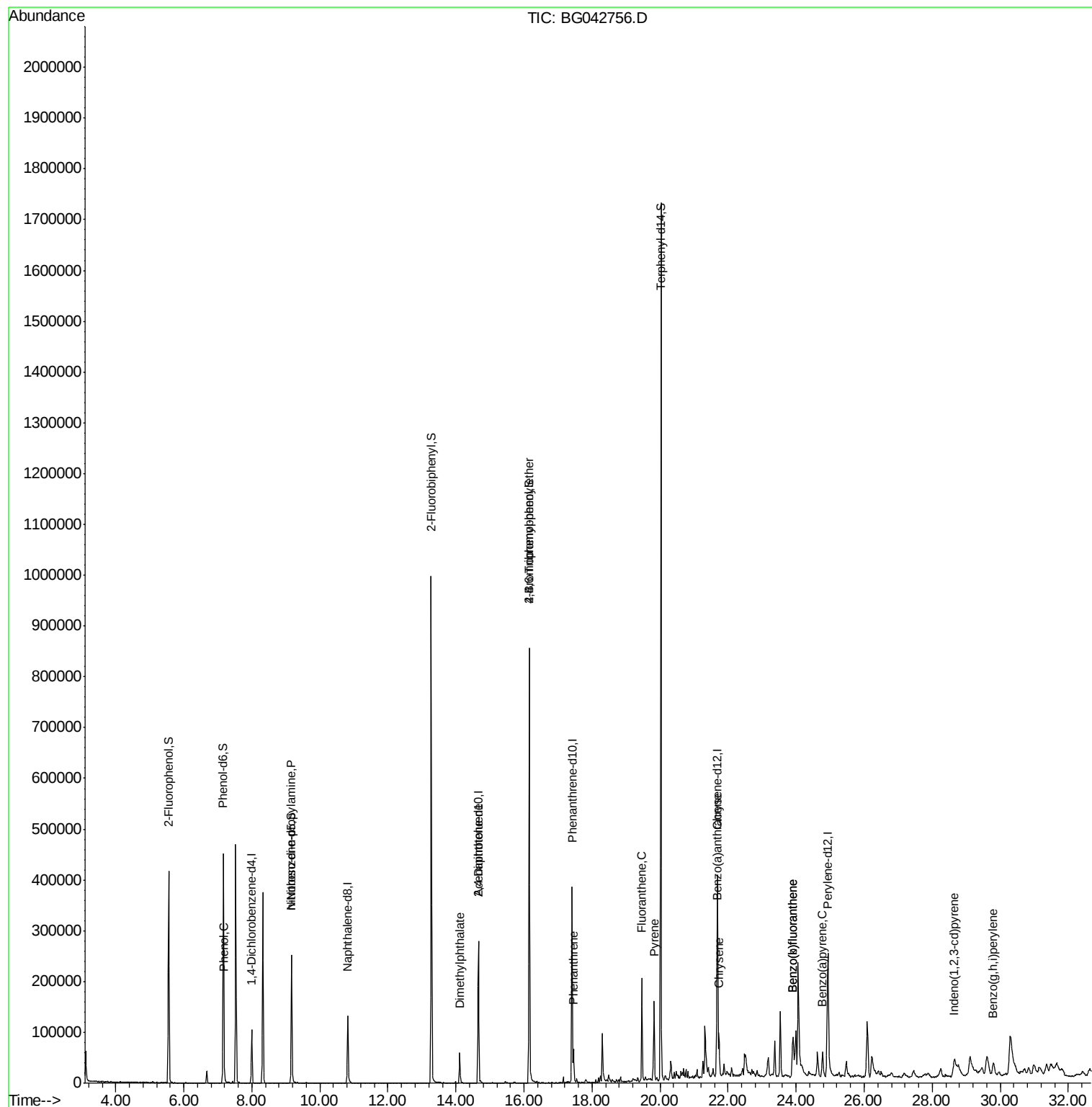
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 10) Phenol                     | 7.19  | 94  | 4977   | 2.103  | ng | # 52 |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70  | 21728  | 14.409 | ng | # 79 |
| 50) Dimethylphthalate          | 14.11 | 163 | 60520  | 6.945  | ng | 99   |
| 57) 2,4-Dinitrotoluene         | 14.65 | 165 | 15509  | 5.362  | ng | # 40 |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248 | 14518  | 4.271  | ng | # 1  |
| 71) Phenanthrene               | 17.45 | 178 | 47522  | 3.570  | ng | 98   |
| 75) Fluoranthene               | 19.47 | 202 | 133277 | 8.205  | ng | 93   |
| 78) Pyrene                     | 19.82 | 202 | 114194 | 8.047  | ng | 96   |
| 81) Benzo(a)anthracene         | 21.67 | 228 | 53013  | 3.765  | ng | 97   |
| 83) Chrysene                   | 21.73 | 228 | 68928  | 5.076  | ng | 97   |
| 86) Indeno(1,2,3-cd)pyrene     | 28.64 | 276 | 52087  | 2.823  | ng | 99   |
| 88) Benzo(b)fluoranthene       | 23.90 | 252 | 110908 | 7.386  | ng | 97   |
| 89) Benzo(k)fluoranthene       | 23.90 | 252 | 110908 | 7.684  | ng | 97   |
| 90) Benzo(a)pyrene             | 24.78 | 252 | 65334  | 4.585  | ng | 98   |
| 92) Benzo(a,h,i)perylene       | 29.79 | 276 | 55012  | 3.812  | ng | 98   |

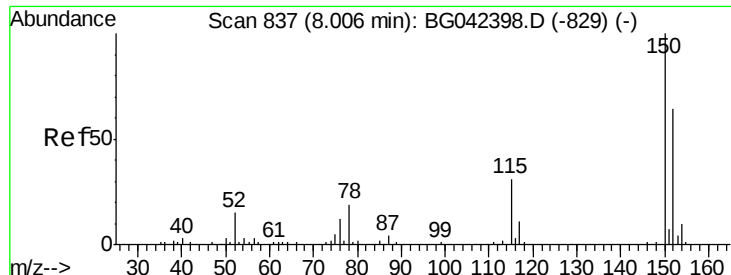
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090619\  
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Sample : K4721-11  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 07 01:20:13 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



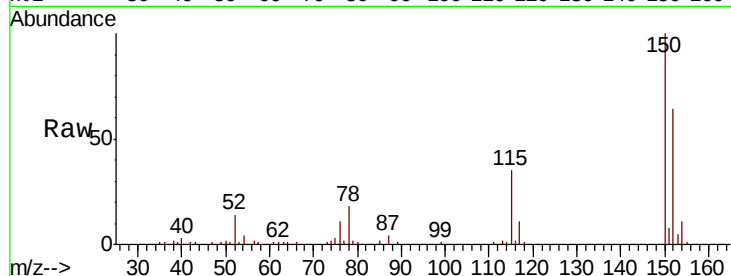


#1

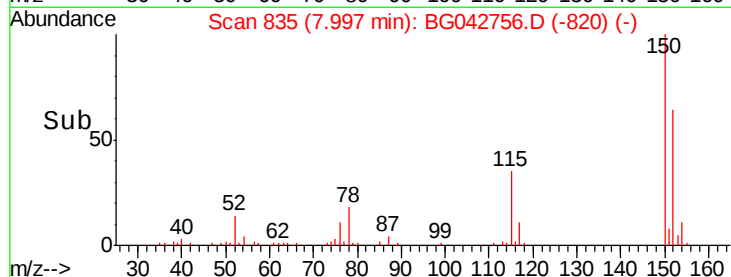
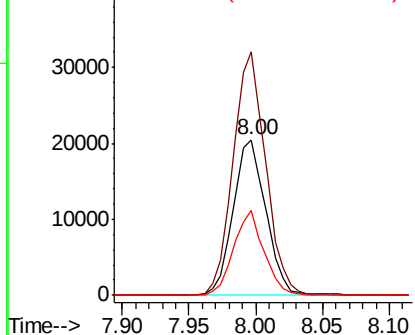
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.00 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 34900  
Ion Ratio Lower Upper  
152 100  
150 156.2 125.4 188.0  
115 54.4 38.5 57.7



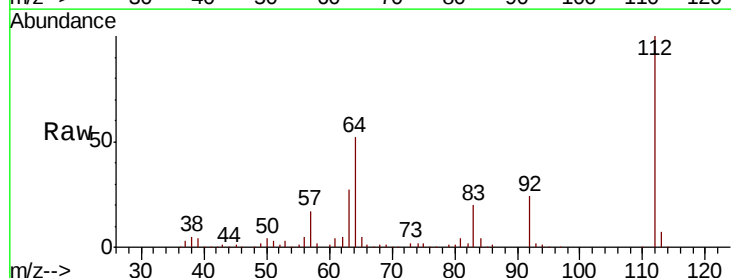
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



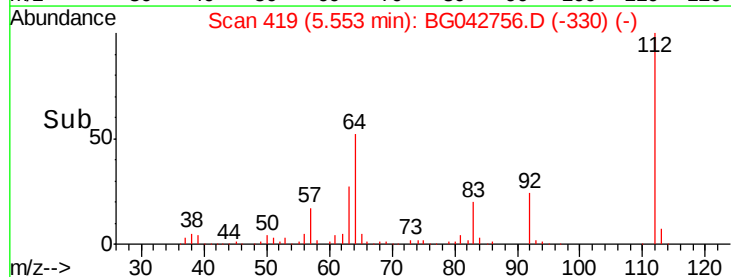
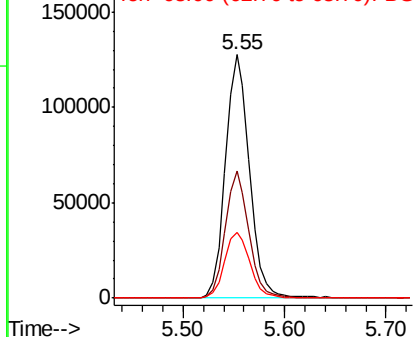
#5

2-Fluorophenol  
Concen: 121.649 ng  
RT: 5.55 min Scan# 419  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Tgt Ion:112 Resp: 209626  
Ion Ratio Lower Upper  
112 100  
64 52.2 42.8 64.2  
63 27.2 22.7 34.1



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 125.870 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042756.D

Acq: 6 Sep 2019 20:31

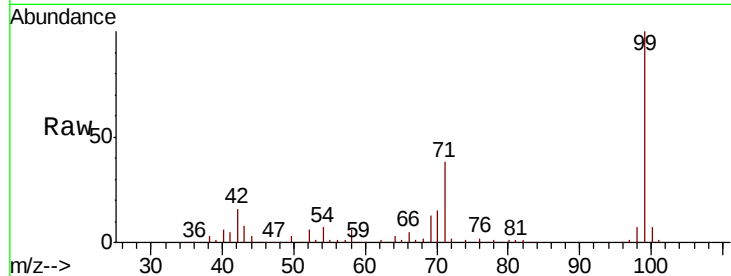
Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 99 Resp: 292983

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.8  | 12.0  | 18.0  |
| 71  | 37.5  | 26.3  | 39.5  |

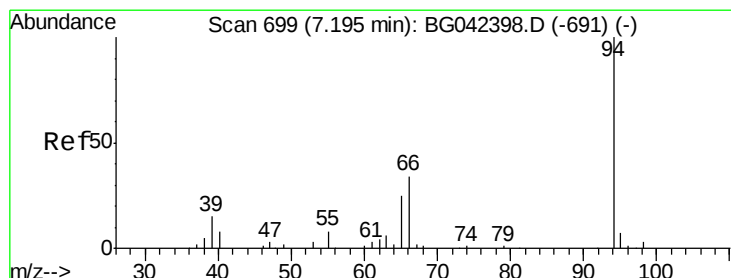
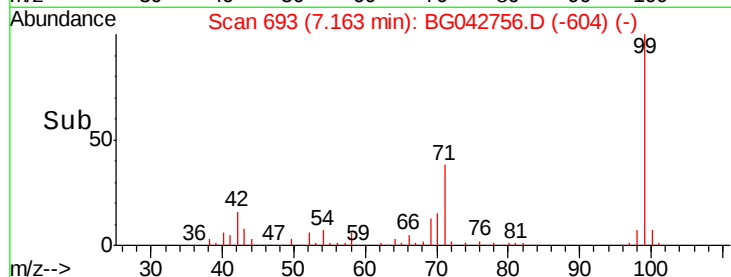
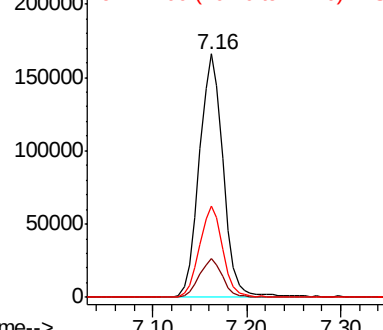


Abundance

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: 2.103 ng

RT: 7.19 min Scan# 697

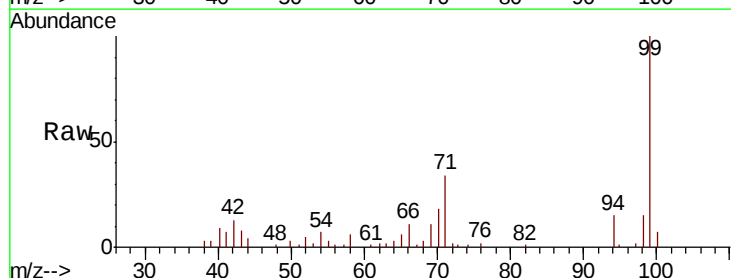
Delta R.T. -0.01 min

Lab File: BG042756.D

Acq: 6 Sep 2019 20:31

Tgt Ion: 94 Resp: 4977

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 42.1  | 5.6   | 45.6  |
| 66  | 70.8  | 16.0  | 56.0  |

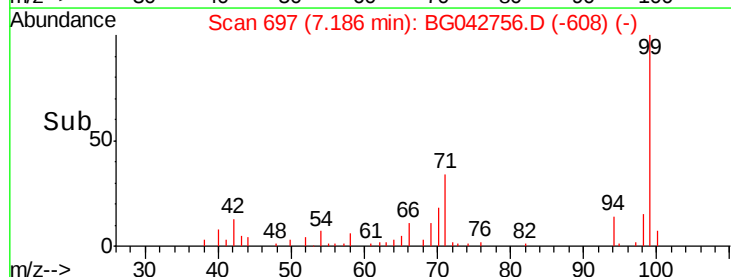
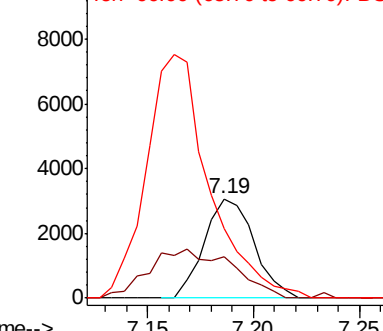


Abundance

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

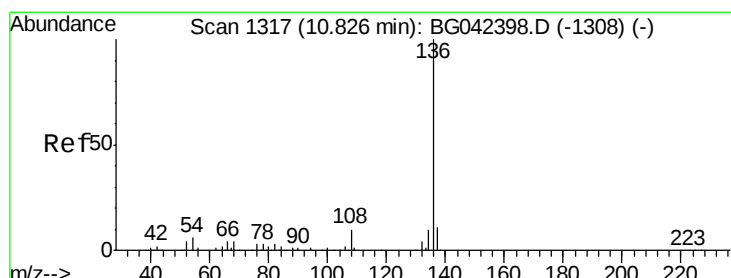
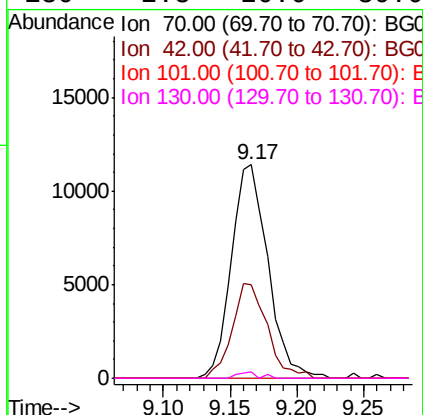
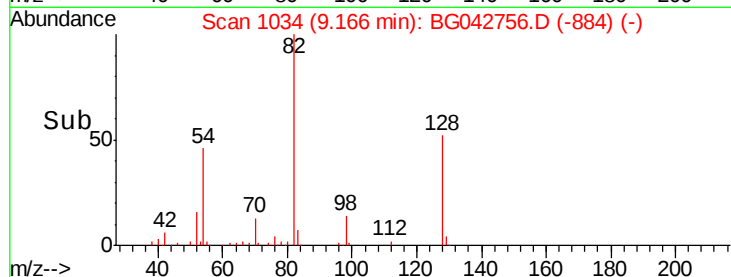
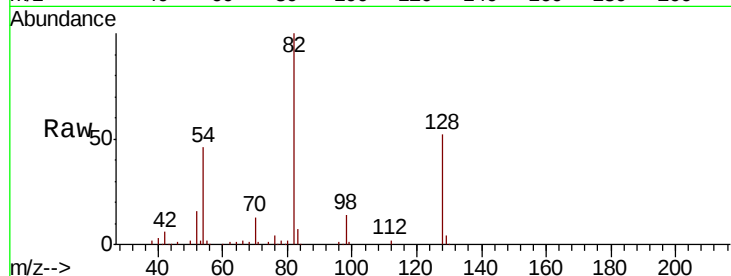




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.409 ng  
RT: 9.17 min Scan# 1034  
Delta R.T. 0.35 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

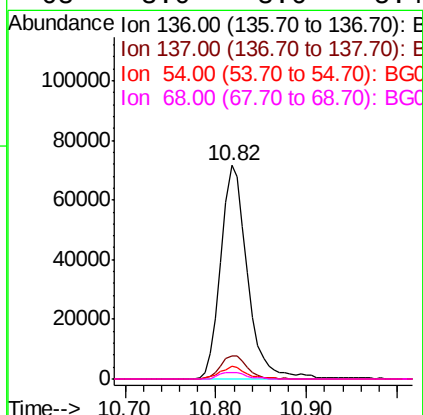
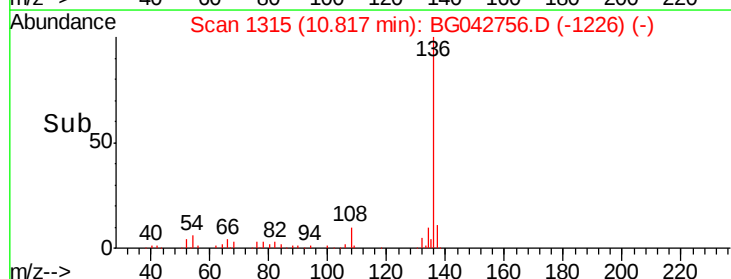
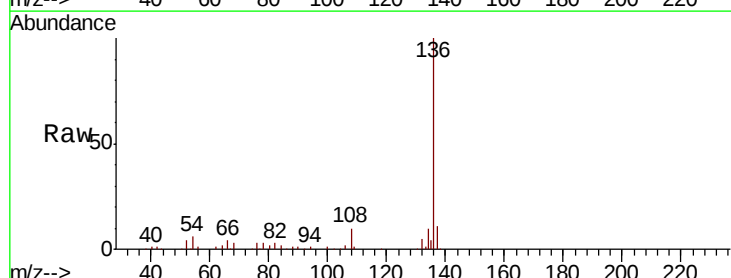
Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion: 70 Resp: 21728  
Ion Ratio Lower Upper  
70 100  
42 44.0 38.8 58.2  
101 0.0 9.0 13.6#  
130 2.8 20.0 30.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.82 min Scan# 1315  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Tgt Ion: 136 Resp: 146373  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.7 13.1  
54 5.7 4.9 7.3  
68 3.0 3.6 5.4#

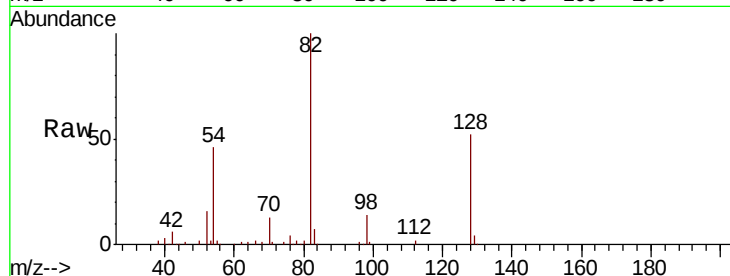




#23  
Nitrobenzene-d5  
Concen: 77.137 ng  
RT: 9.17 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion   | 82    | Resp  | 163389 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 51.6  | 40.7  | 61.1   |
| 54        | 46.3  | 36.3  | 54.5   |

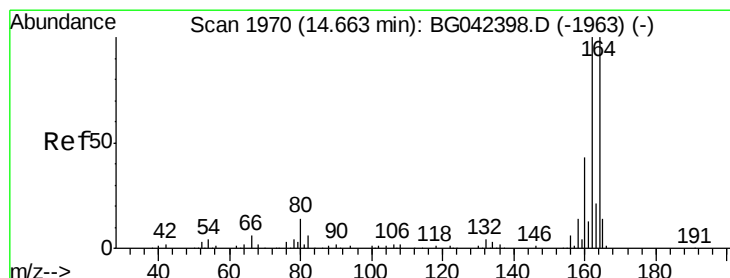
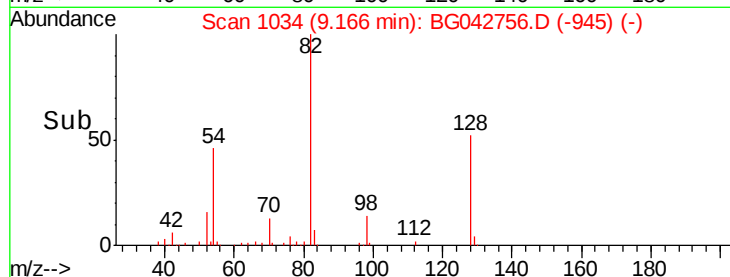
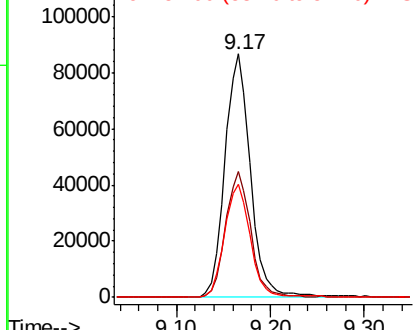


Abundance

Ion 82.00 (81.70 to 82.70): BGC

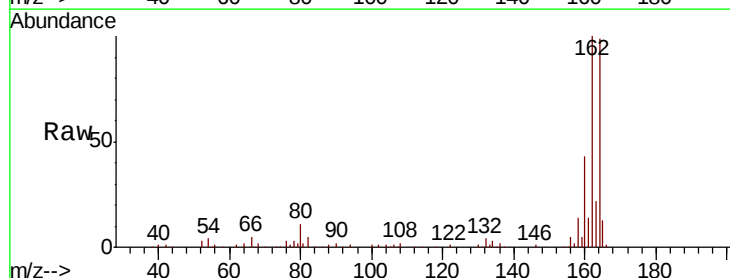
Ion 128.00 (127.70 to 128.70): BGC

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. -0.00 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

| Tgt Ion   | 164   | Resp  | 120768 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 101.2 | 79.9  | 119.9  |
| 160       | 43.5  | 34.3  | 51.5   |

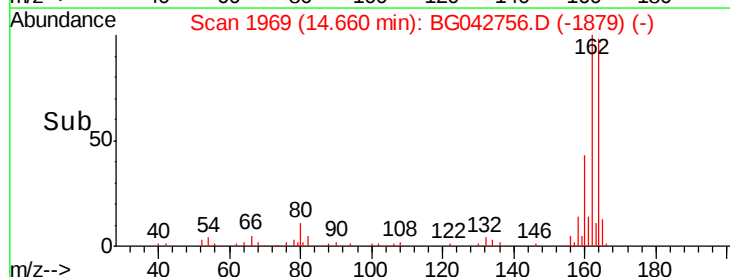
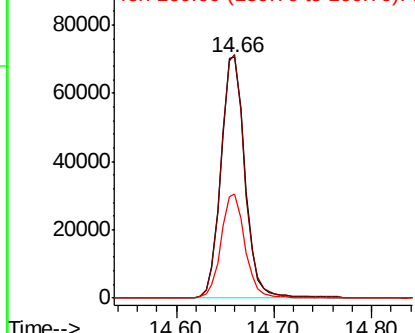


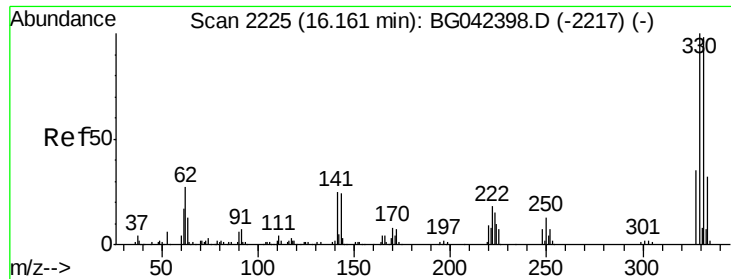
Abundance

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

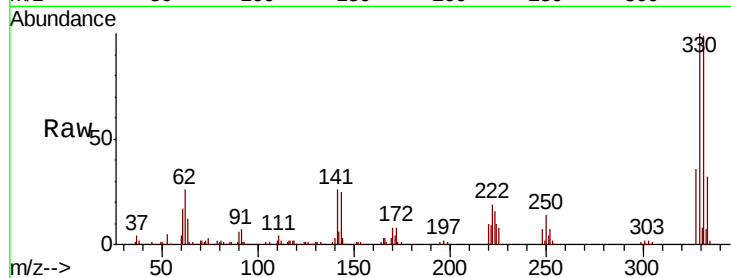




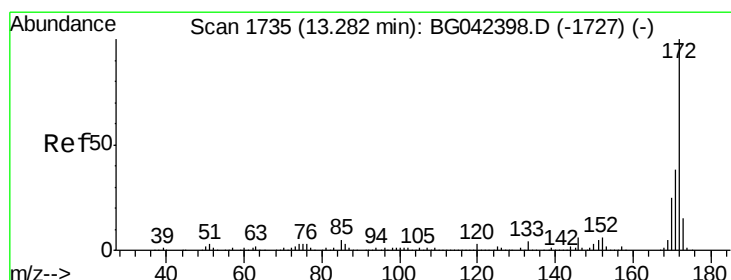
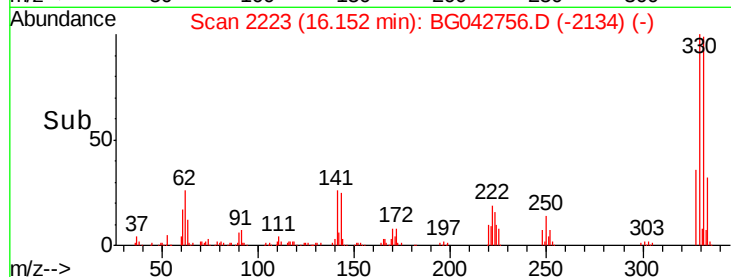
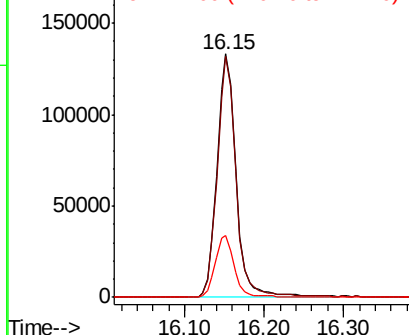
#42  
 2,4,6-Tribromophenol  
 Concen: 129.904 ng  
 RT: 16.15 min Scan# 2223  
 Delta R.T. -0.01 min  
 Lab File: BG042756.D  
 Acq: 6 Sep 2019 20:31

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 77.4  | 116.0 |
| 141     | 26.1  | 21.4  | 32.0  |

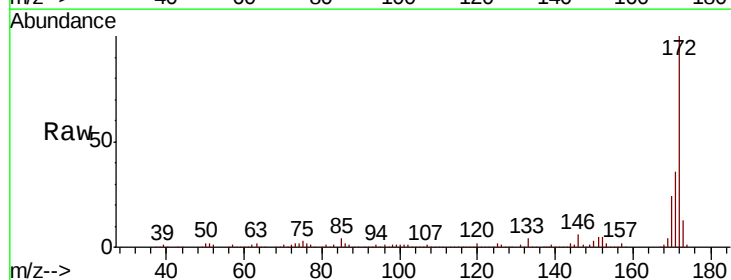


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

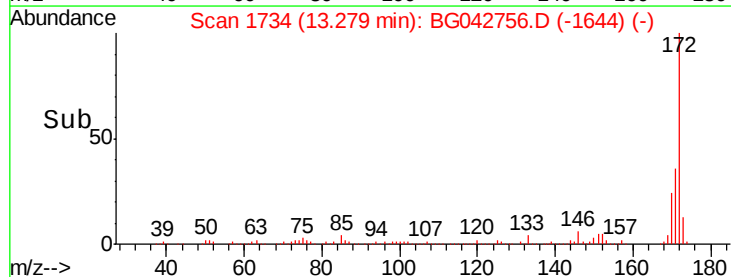
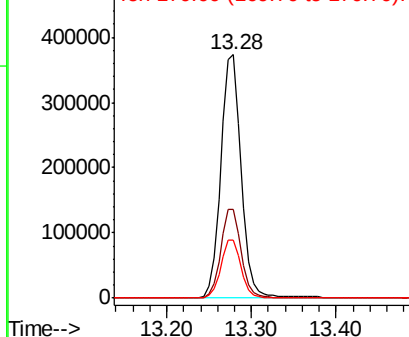


#45  
 2-Fluorobiphenyl  
 Concen: 88.131 ng  
 RT: 13.28 min Scan# 1734  
 Delta R.T. -0.00 min  
 Lab File: BG042756.D  
 Acq: 6 Sep 2019 20:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 30.5  | 45.7  |
| 170     | 24.0  | 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

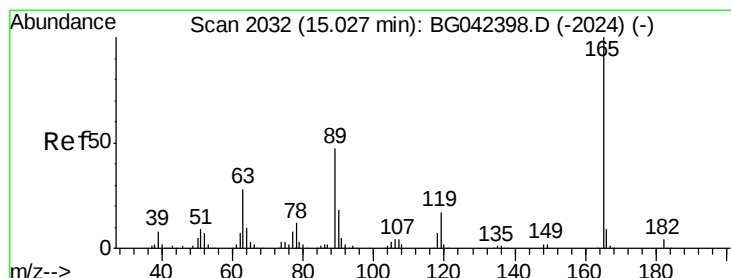
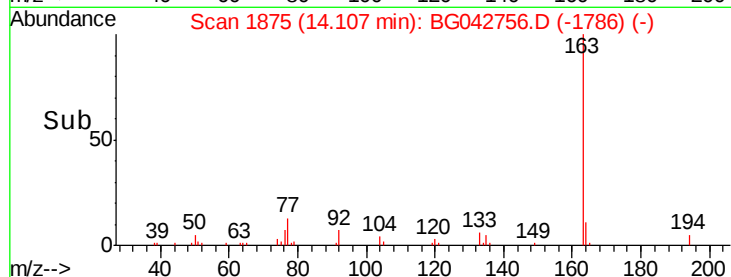
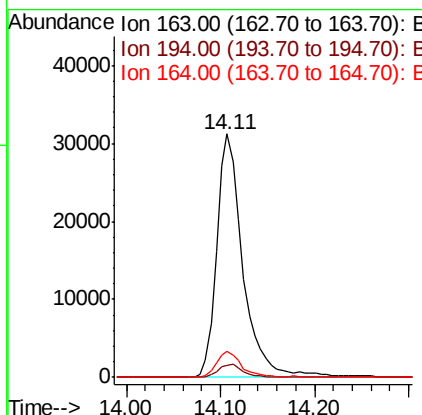
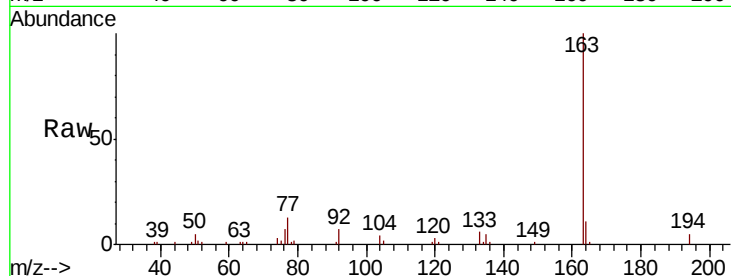




#50  
Dimethylphthalate  
Concen: 6.945 ng  
RT: 14.11 min Scan# 1875  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

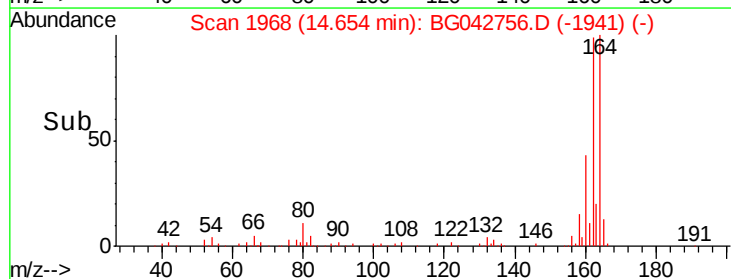
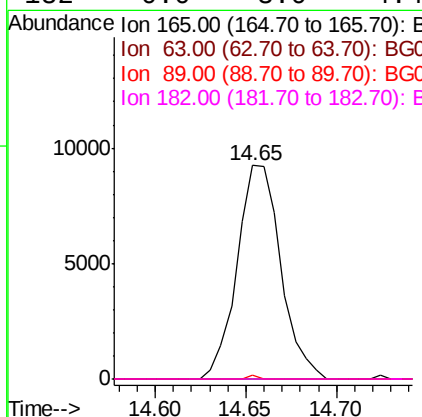
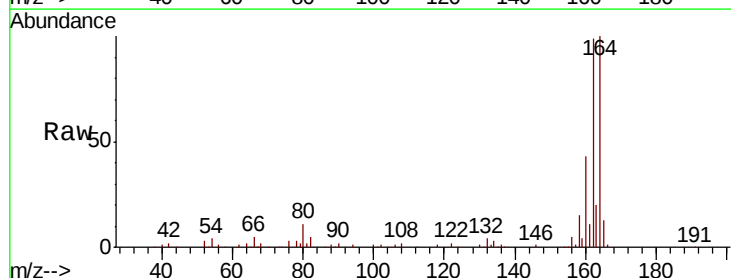
Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:163 Resp: 60520  
Ion Ratio Lower Upper  
163 100  
194 4.8 4.2 6.2  
164 10.7 8.8 13.2



#57  
2,4-Dinitrotoluene  
Concen: 5.362 ng  
RT: 14.65 min Scan# 1968  
Delta R.T. -0.37 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Tgt Ion:165 Resp: 15509  
Ion Ratio Lower Upper  
165 100  
63 0.0 22.5 33.7#  
89 1.7 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: BG042756.D

Acq: 6 Sep 2019 20:31

Instrument :

BNA\_G

ClientSampleId :

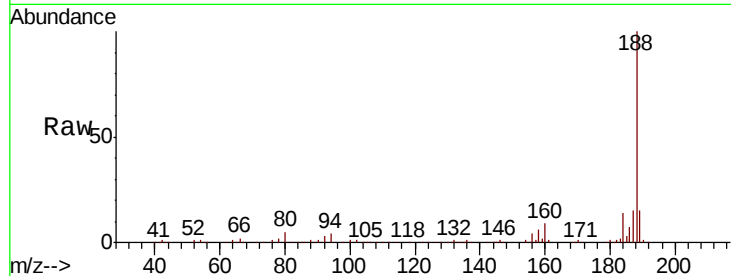
Tot Ion:188 Resp: 267956

Ion Ratio Lower Upper

188 100

94 4.2 4.5 6.7#

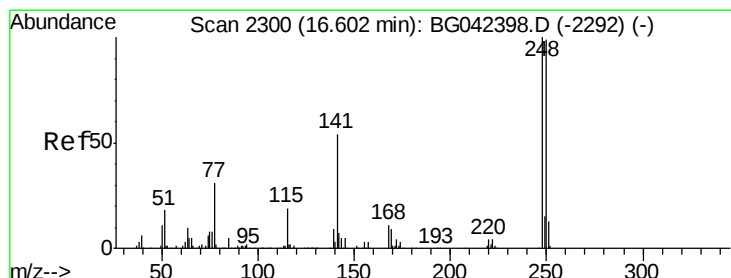
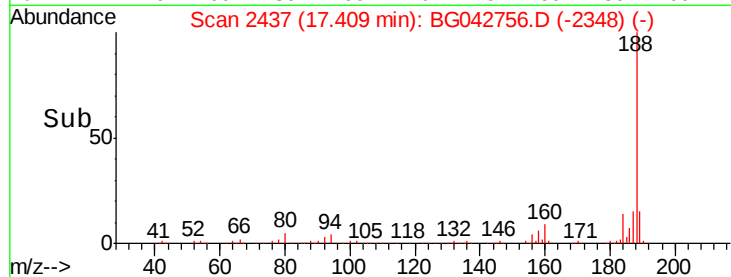
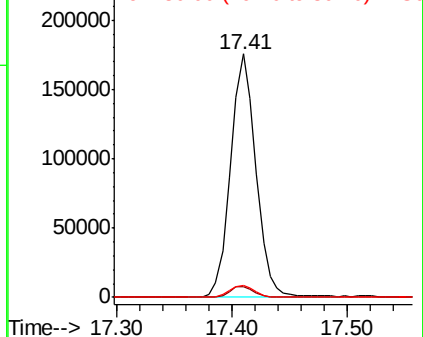
80 4.7 4.9 7.3#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 4.271 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.45 min

Lab File: BG042756.D

Acq: 6 Sep 2019 20:31

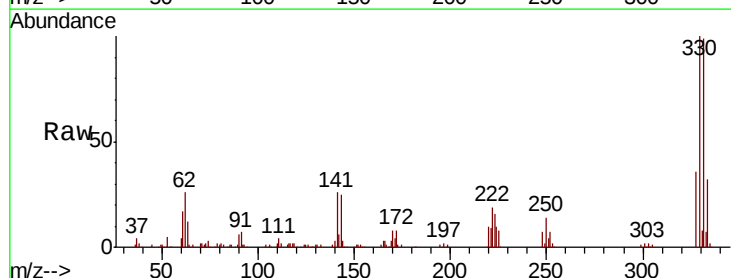
Tgt Ion:248 Resp: 14518

Ion Ratio Lower Upper

248 100

250 194.4 78.9 118.3#

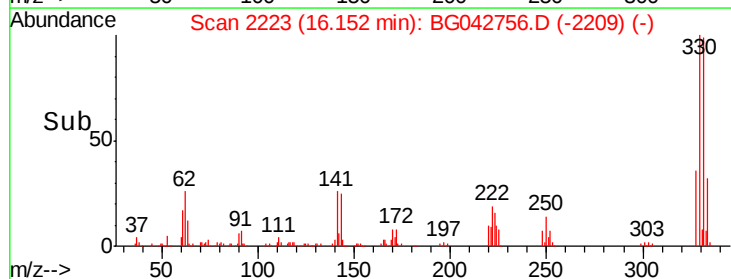
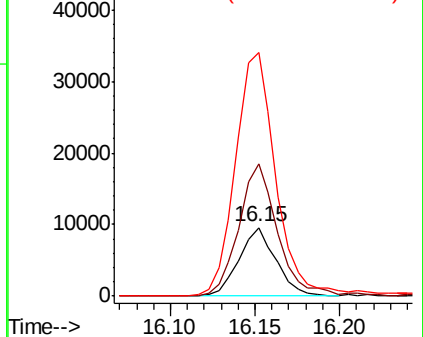
141 356.5 43.3 64.9#

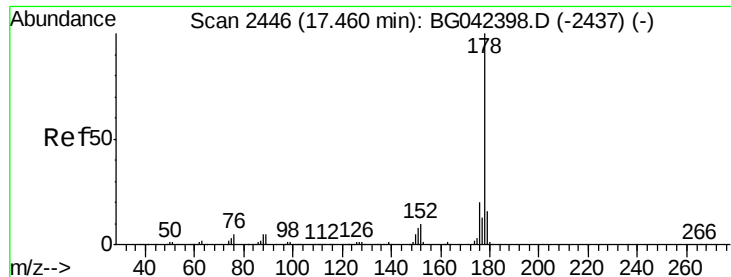


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

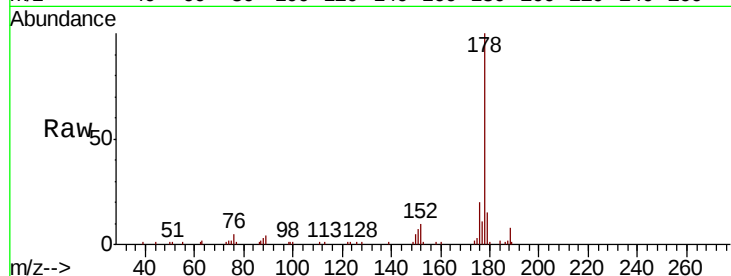




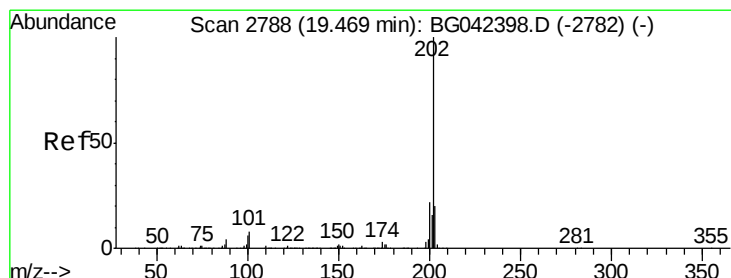
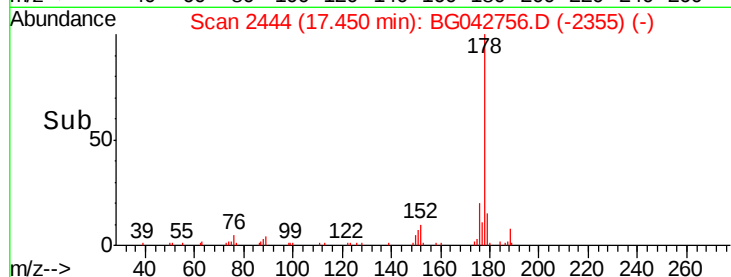
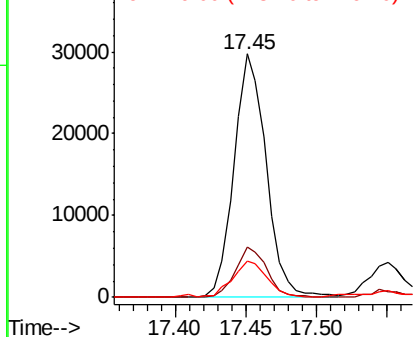
#71  
Phenanthrene  
Concen: 3.570 ng  
RT: 17.45 min Scan# 2444  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:178 Resp: 47522  
Ion Ratio Lower Upper  
178 100  
176 20.5 15.9 23.9  
179 14.9 12.7 19.1

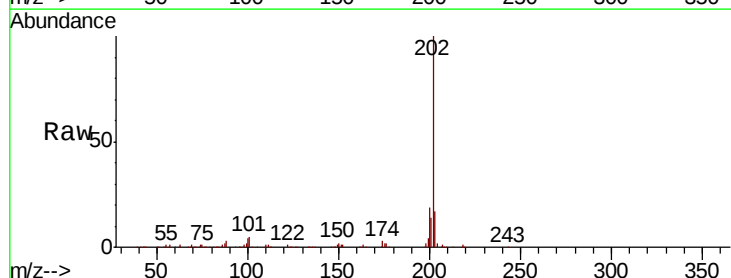


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

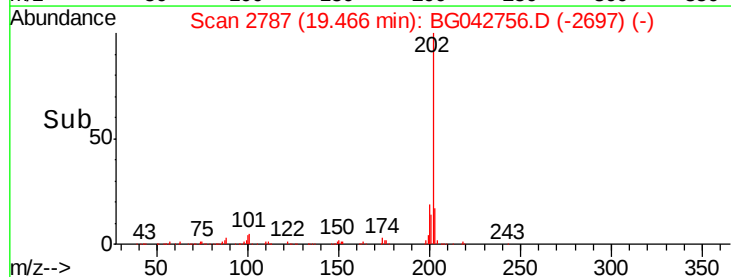
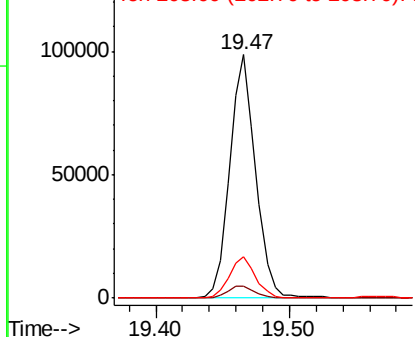


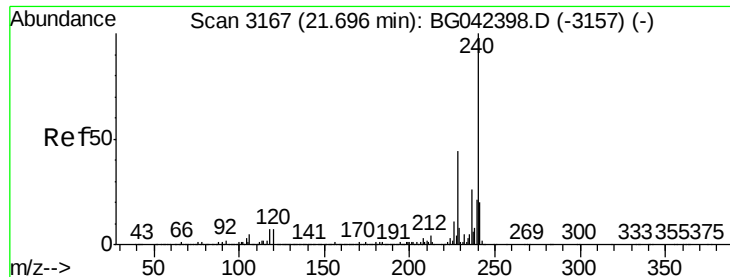
#75  
Fluoranthene  
Concen: 8.205 ng  
RT: 19.47 min Scan# 2787  
Delta R.T. -0.00 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Tgt Ion:202 Resp: 133277  
Ion Ratio Lower Upper  
202 100  
101 5.1 0.0 28.3  
203 17.1 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

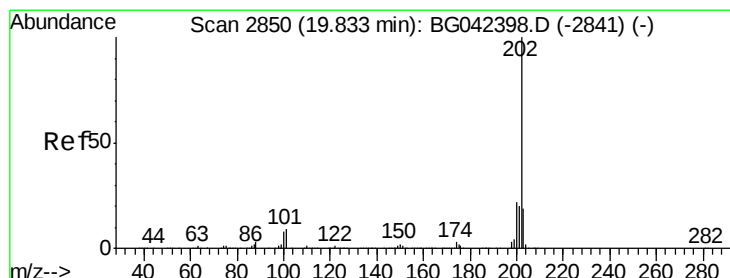
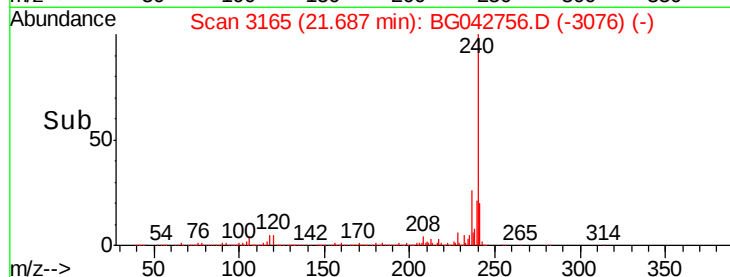
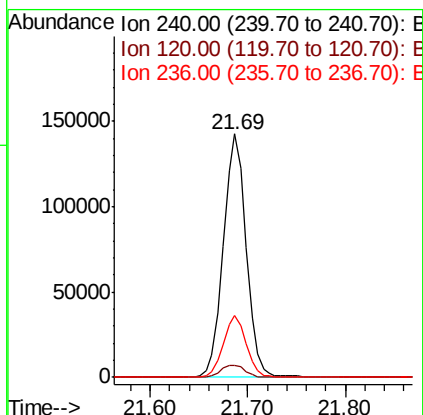
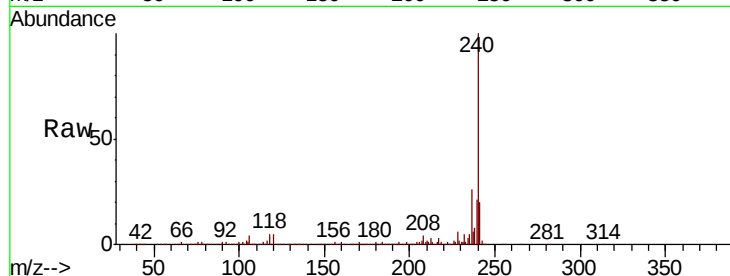




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3165  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

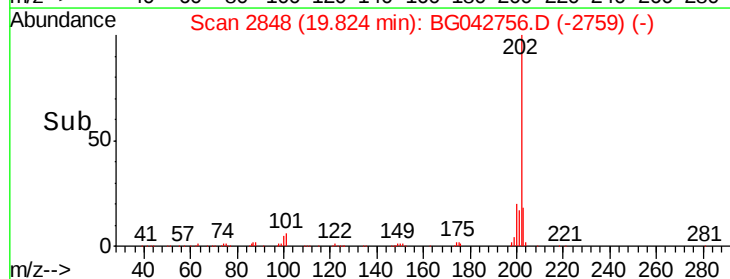
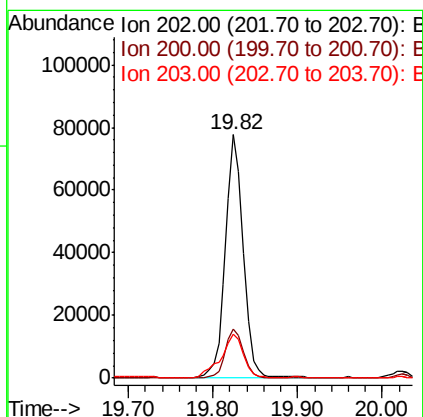
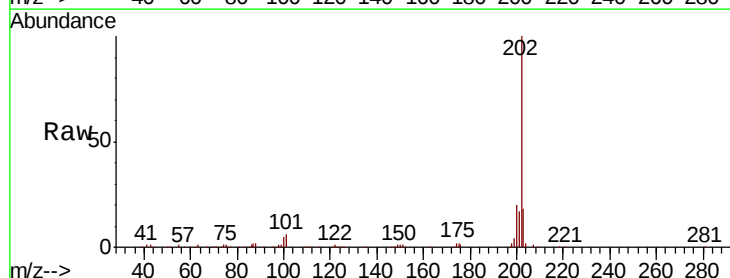
Instrument :  
BNA\_G  
ClientSampleId :

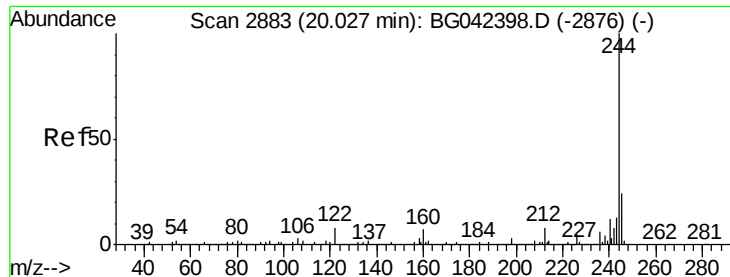
Tot Ion:240 Resp: 231462  
Ion Ratio Lower Upper  
240 100  
120 5.0 5.7 8.5#  
236 25.6 21.0 31.4



#78  
Pyrene  
Concen: 8.047 ng  
RT: 19.82 min Scan# 2848  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Tgt Ion:202 Resp: 114194  
Ion Ratio Lower Upper  
202 100  
200 20.3 17.8 26.6  
203 18.0 15.5 23.3





#79

Terphenyl-d14

Concen: 89.654 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BG042756.D

Acq: 6 Sep 2019 20:31

Instrument :

BNA\_G

ClientSampled :

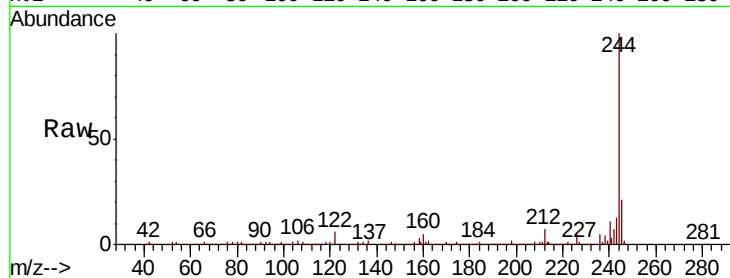
Tot Ion:244 Resp: 959861

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

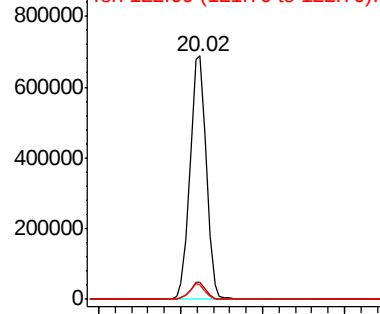
122 6.0 6.7 10.1#



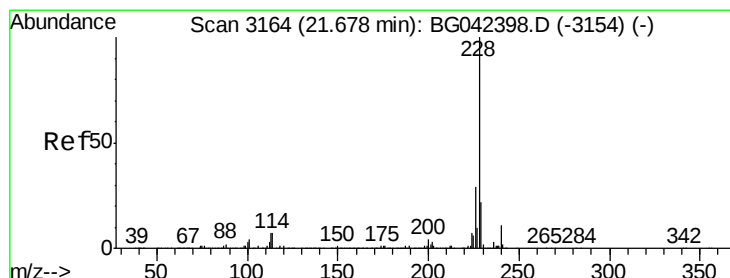
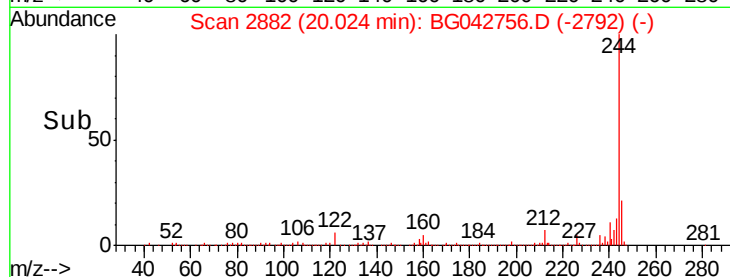
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->



#81

Benzo(a)anthracene

Concen: 3.765 ng

RT: 21.67 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG042756.D

Acq: 6 Sep 2019 20:31

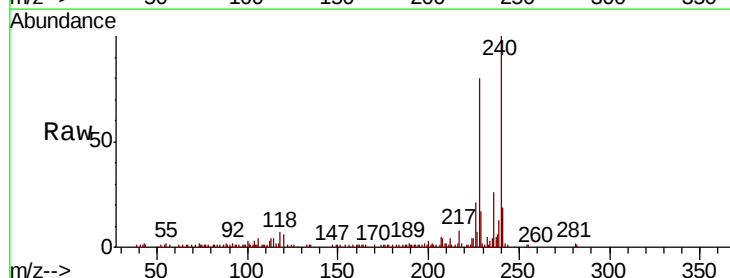
Tgt Ion:228 Resp: 53013

Ion Ratio Lower Upper

228 100

226 26.3 23.4 35.2

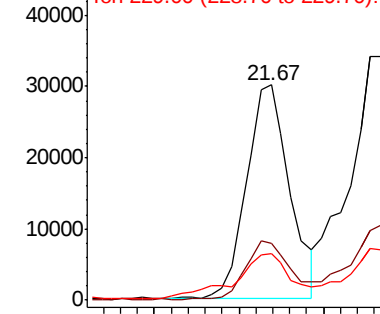
229 21.7 17.4 26.2



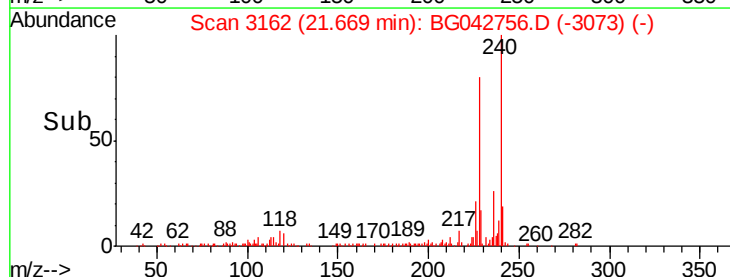
Abundance Ion 228.00 (227.70 to 228.70): E

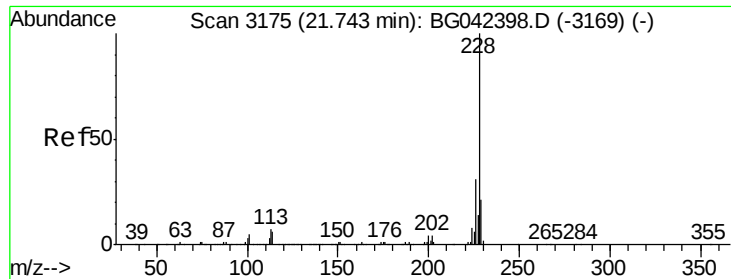
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->

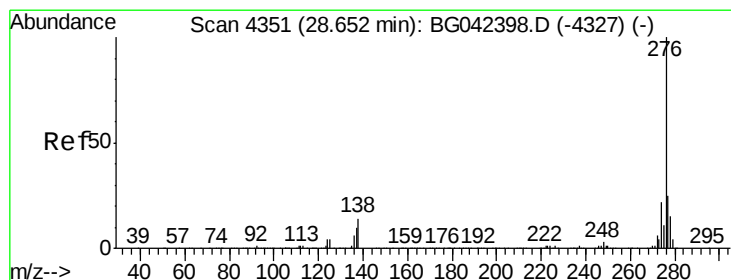
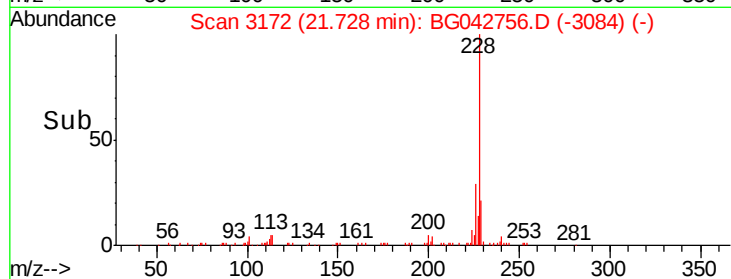
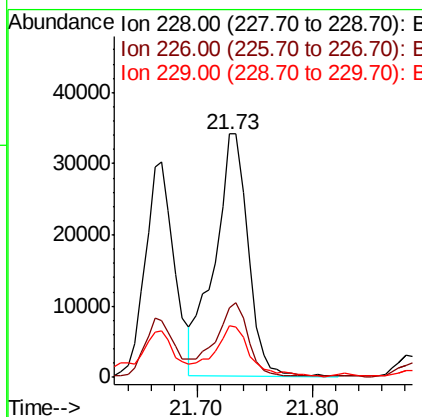
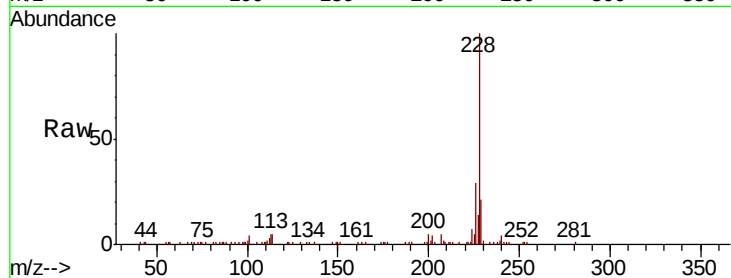




#83  
 Chrysene  
 Concen: 5.076 ng  
 RT: 21.73 min Scan# 3172  
 Delta R.T. -0.01 min  
 Lab File: BG042756.D  
 Acq: 6 Sep 2019 20:31

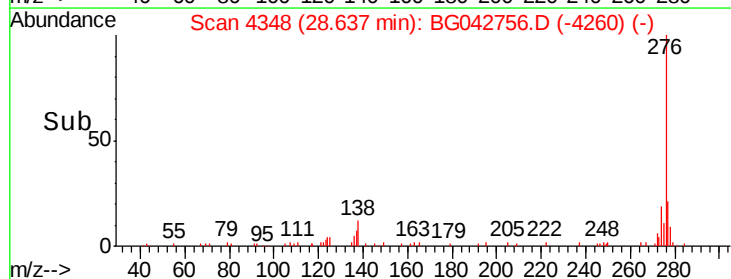
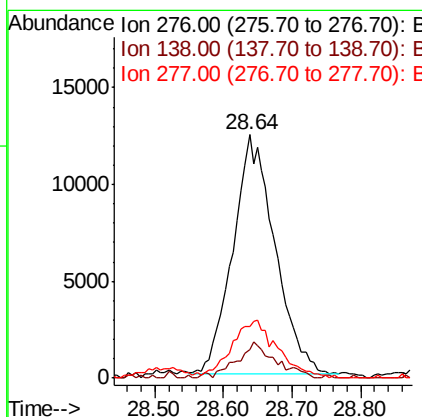
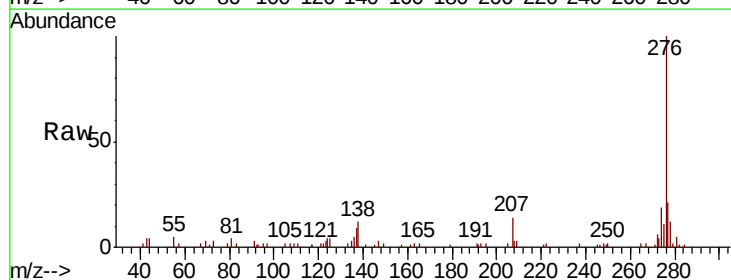
Instrument :  
 BNA\_G  
 ClientSampleId :

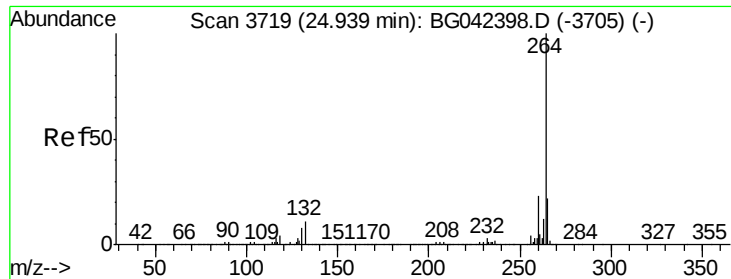
Tot Ion:228 Resp: 68928  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 24.9 37.3  
 229 21.0 16.9 25.3



#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.823 ng  
 RT: 28.64 min Scan# 4348  
 Delta R.T. -0.01 min  
 Lab File: BG042756.D  
 Acq: 6 Sep 2019 20:31

Tgt Ion:276 Resp: 52087  
 Ion Ratio Lower Upper  
 276 100  
 138 12.3 9.2 13.8  
 277 26.7 21.0 31.6



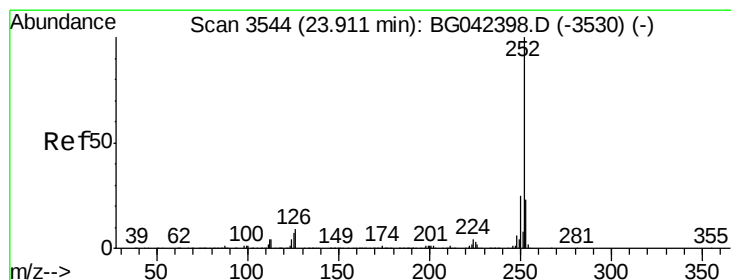
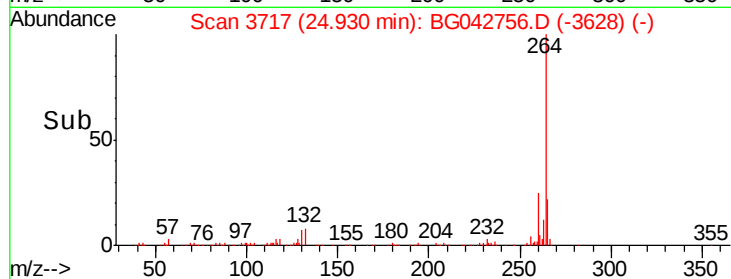
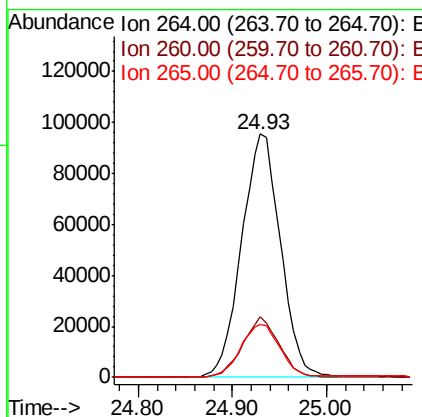
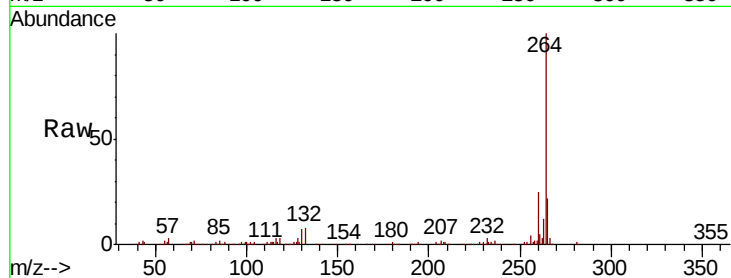


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.93 min Scan# 3717  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:264 Resp: 273139  

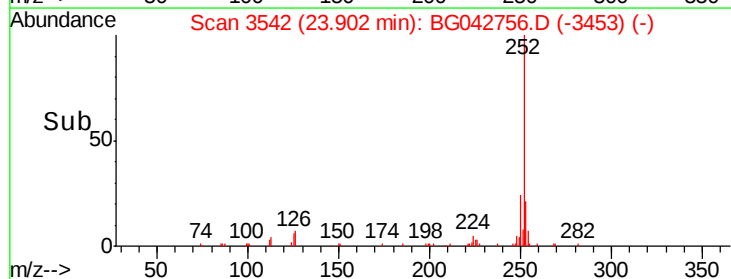
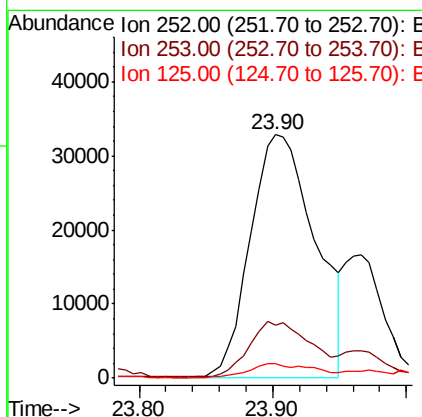
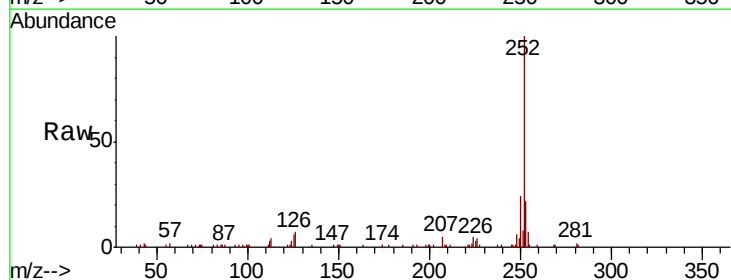
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.7  | 18.5  | 27.7  |
| 265 | 21.6  | 17.6  | 26.4  |

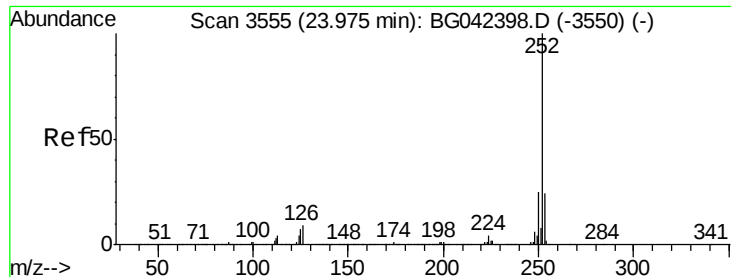


#88  
Benzo(b)fluoranthene  
Concen: 7.386 ng  
RT: 23.90 min Scan# 3542  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Tgt Ion:252 Resp: 110908  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.9  | 18.6  | 27.8  |
| 125 | 6.0   | 5.6   | 8.4   |

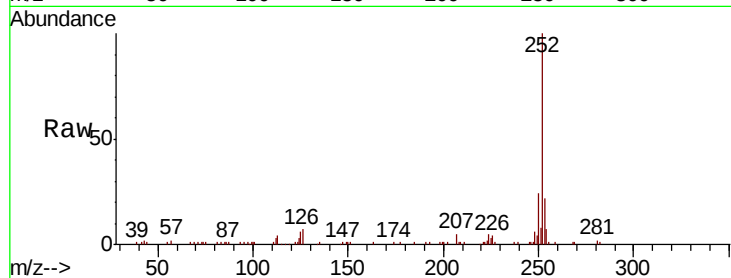




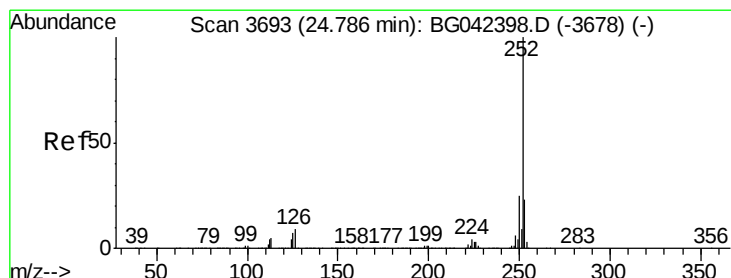
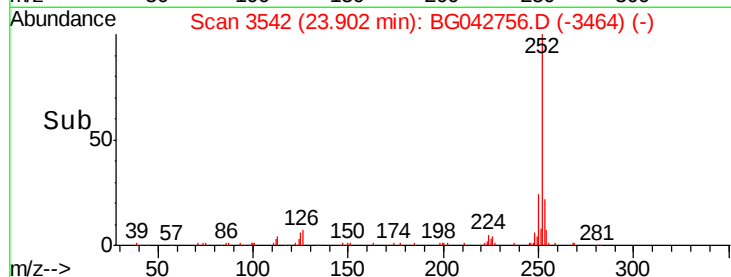
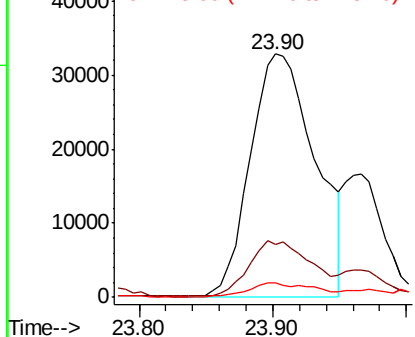
#89  
Benzo(k)fluoranthene  
Concen: 7.684 ng  
RT: 23.90 min Scan# 3542  
Delta R.T. -0.07 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:252 Resp: 110908  
Ion Ratio Lower Upper  
252 100  
253 21.9 18.6 27.8  
125 6.0 5.8 8.6

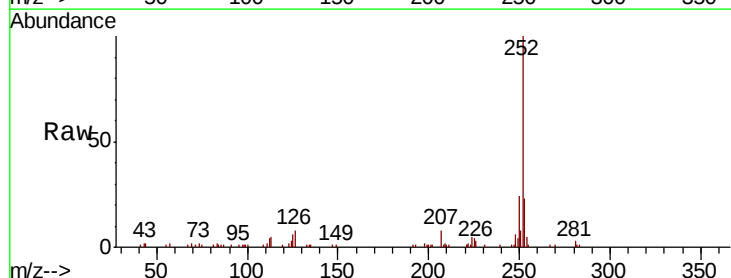


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

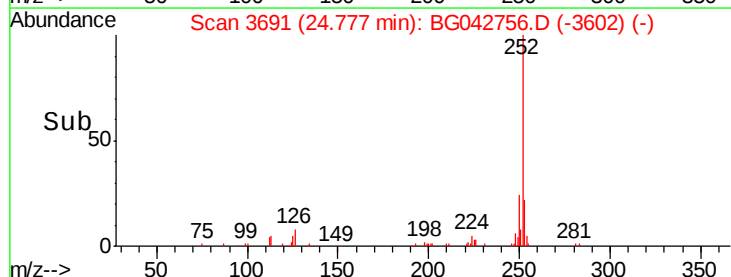
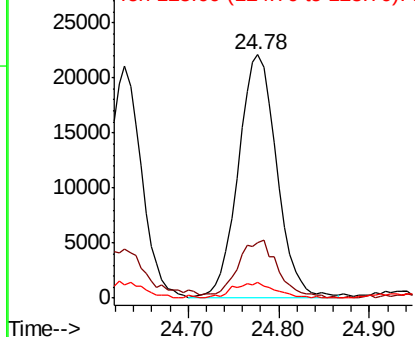


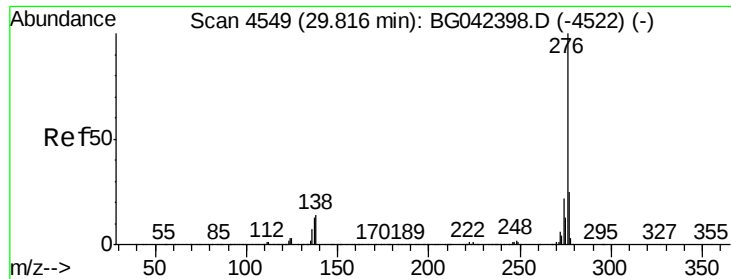
#90  
Benzo(a)pyrene  
Concen: 4.585 ng  
RT: 24.78 min Scan# 3691  
Delta R.T. -0.01 min  
Lab File: BG042756.D  
Acq: 6 Sep 2019 20:31

Tgt Ion:252 Resp: 65334  
Ion Ratio Lower Upper  
252 100  
253 22.6 18.4 27.6  
125 6.3 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

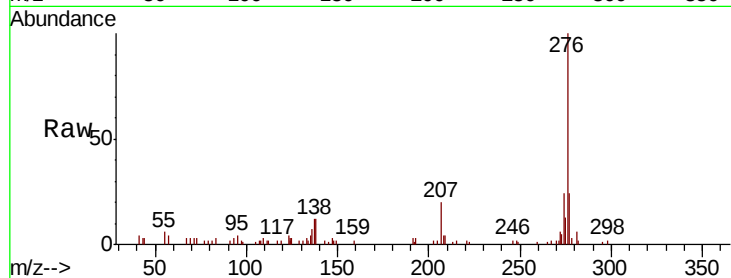




#92  
 Benzo(a,h,i)perylene  
 Concen: 3.812 ng  
 RT: 29.79 min Scan# 4545  
 Delta R.T. -0.02 min  
 Lab File: BG042756.D  
 Acq: 6 Sep 2019 20:31

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.3  | 19.8  | 29.8  |
| 138     | 12.4  | 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

