

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060415\  
 Data File : BG017462.D  
 Acq On : 5 Jun 2015 5:24  
 Operator : TP/IZ  
 Sample : G2474-04  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C-4

Quant Time: Jun 05 11:49:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 04 01:31:15 2015  
 Response via : Initial Calibration

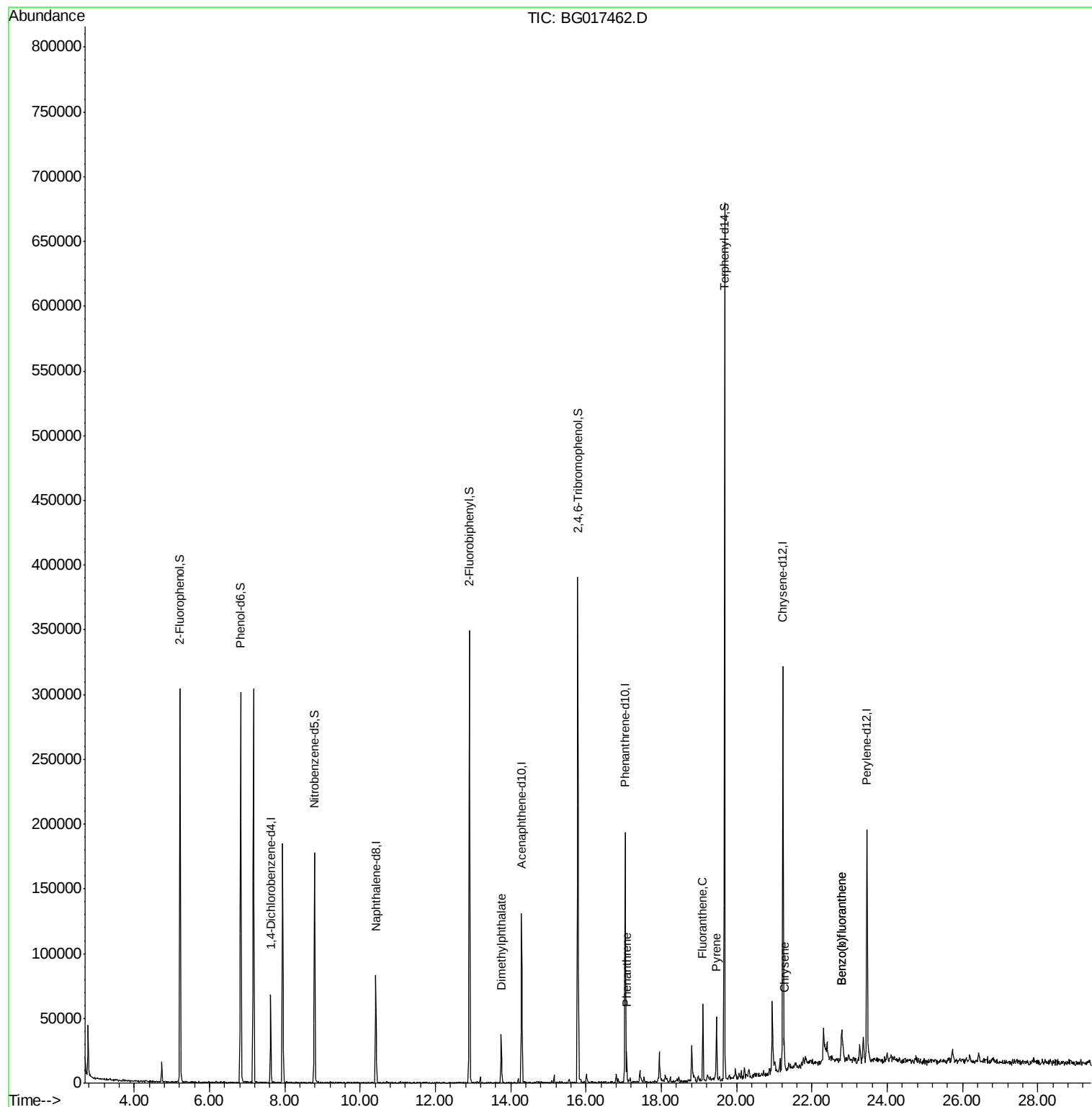
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 14484    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.42 | 136  | 59852    | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.29 | 164  | 40950    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.04 | 188  | 104557   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 21.23 | 240  | 123578   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.47 | 264  | 125257   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.21  | 112  | 97064    | 118.07 | ng    | 0.00     |
| 7) Phenol-d6                | 6.83  | 99   | 128833   | 115.03 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.79  | 82   | 88746    | 74.02  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 15.78 | 330  | 57657    | 101.37 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 12.91 | 172  | 151201   | 55.70  | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.68 | 244  | 268439   | 44.90  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 13.75 | 163  | 22615    | 6.34   | ng    | # 95     |
| 70) Phenanthrene            | 17.08 | 178  | 12844    | 2.20   | ng    | # 94     |
| 74) Fluoranthene            | 19.10 | 202  | 30416    | 3.99   | ng    | 99       |
| 77) Pyrene                  | 19.47 | 202  | 26467    | 3.48   | ng    | 98       |
| 82) Chrysene                | 21.27 | 228  | 14558    | 2.12   | ng    | 94       |
| 87) Benzo(b)fluoranthene    | 22.79 | 252  | 23510    | 2.96   | ng    | 99       |
| 88) Benzo(k)fluoranthene    | 22.79 | 252  | 23510    | 3.10   | ng    | 99       |

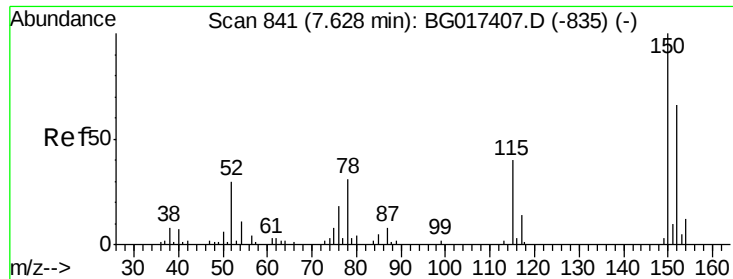
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG060415\  
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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C-4

Quant Time: Jun 05 11:49:52 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 04 01:31:15 2015  
Response via : Initial Calibration



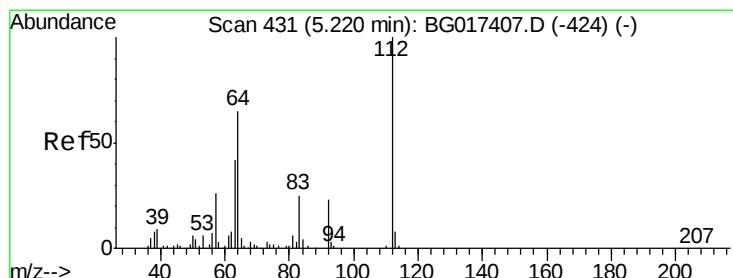
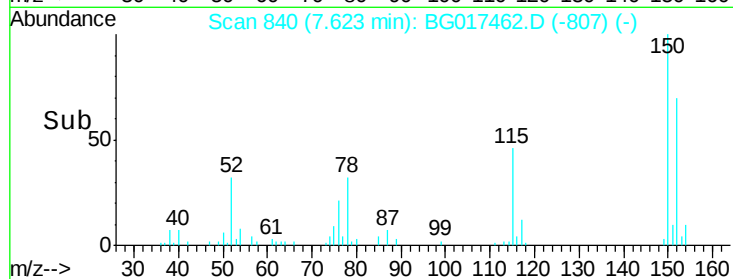
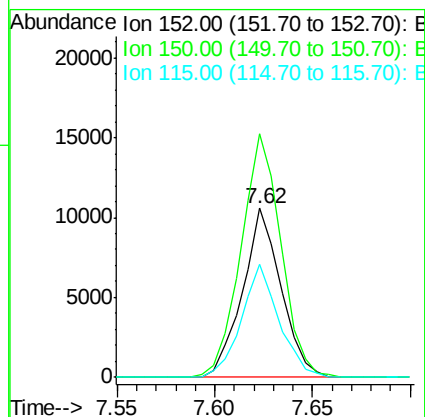
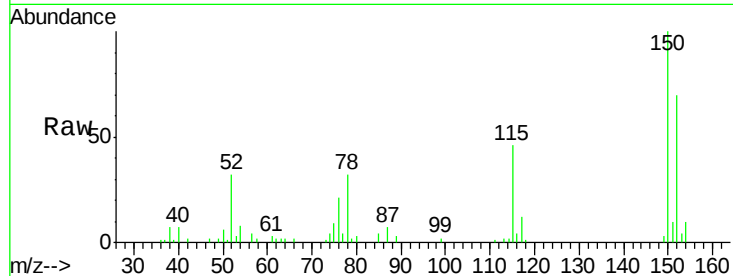


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.62 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BG017462.D  
Acq: 5 Jun 2015 5:24

Instrument :  
BNA\_G  
ClientSampled :  
C-4

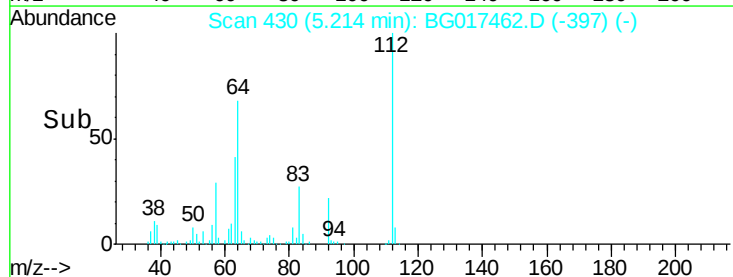
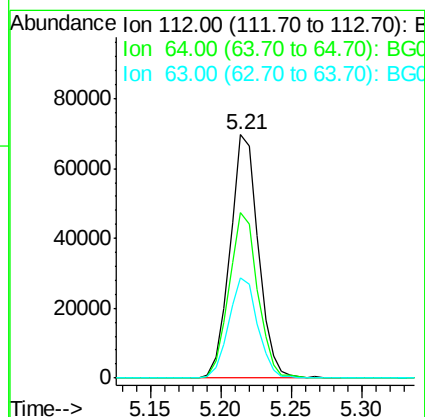
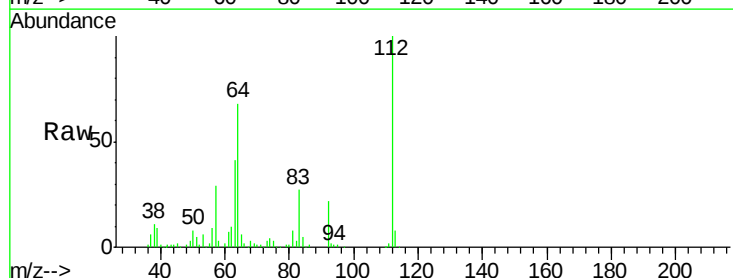
Tgt Ion:152 Resp: 14484  
Ion Ratio Lower Upper  
152 100  
150 143.9 121.7 182.5  
115 66.5 48.6 73.0



#5

2-Fluorophenol  
Concen: 118.07 ng  
RT: 5.21 min Scan# 430  
Delta R.T. -0.01 min  
Lab File: BG017462.D  
Acq: 5 Jun 2015 5:24

Tgt Ion:112 Resp: 97064  
Ion Ratio Lower Upper  
112 100  
64 67.9 51.6 77.4  
63 41.1 33.3 49.9





#7

Phenol-d6

Concen: 115.03 ng

RT: 6.83 min Scan# 705

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

Instrument :

BNA\_G

ClientSampleId :

C-4

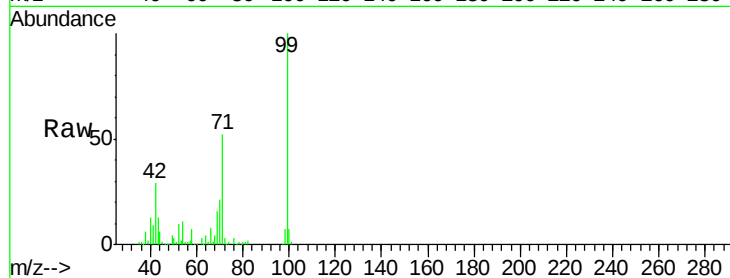
Tgt Ion: 99 Resp: 128833

Ion Ratio Lower Upper

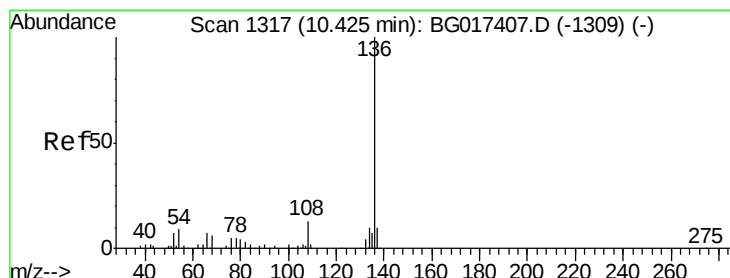
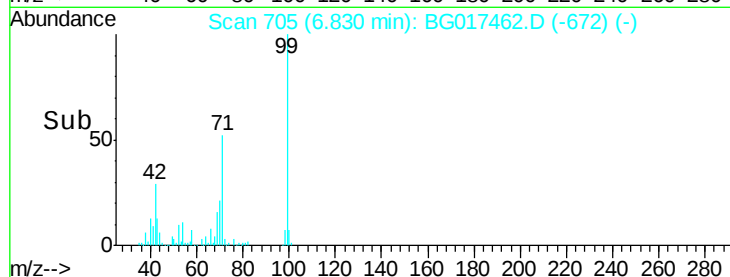
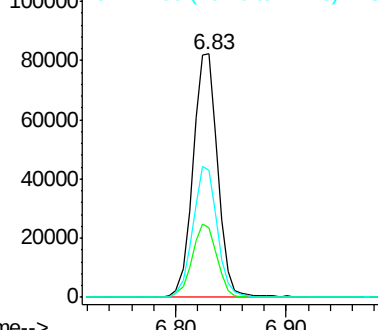
99 100

42 28.7 21.0 31.6

71 52.3 37.2 55.8



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.42 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

Tgt Ion: 136 Resp: 59852

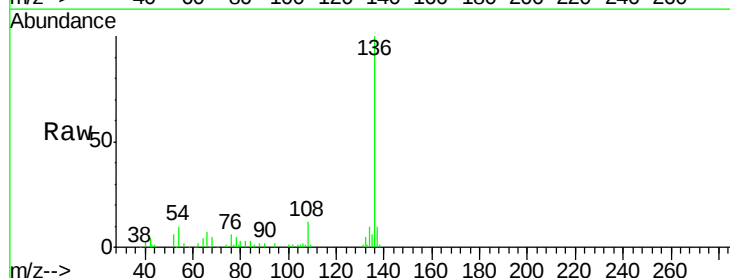
Ion Ratio Lower Upper

136 100

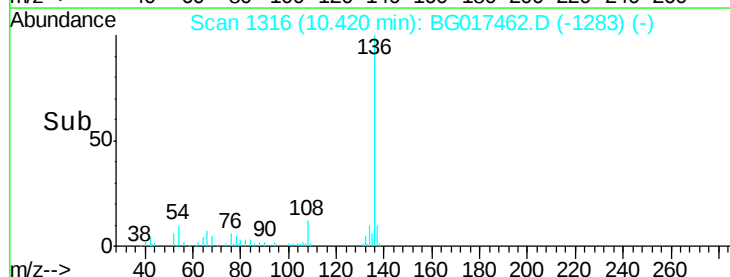
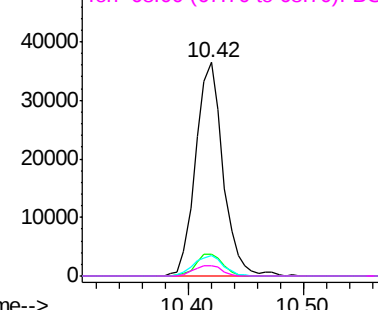
137 10.5 7.9 11.9

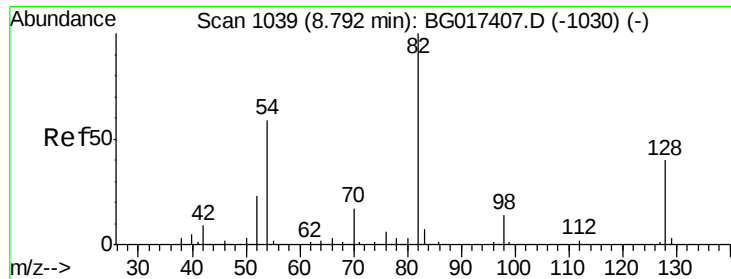
54 9.6 7.2 10.8

68 5.0 4.5 6.7



Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

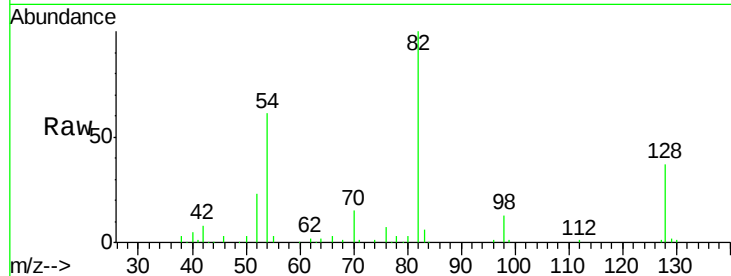




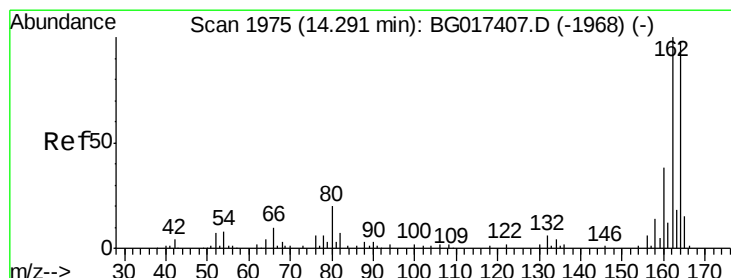
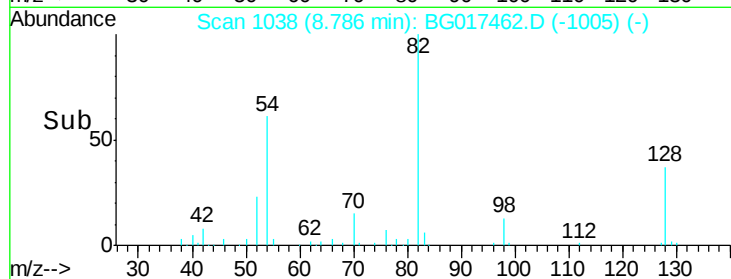
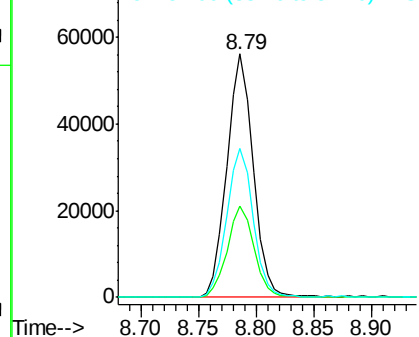
#23  
 Nitrobenzene-d5  
 Concen: 74.02 ng  
 RT: 8.79 min Scan# 1038  
 Delta R.T. -0.01 min  
 Lab File: BG017462.D  
 Acq: 5 Jun 2015 5:24

Instrument :  
 BNA\_G  
 ClientSampleId :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.5  | 32.2  | 48.4  |
| 54      | 61.2  | 47.4  | 71.2  |

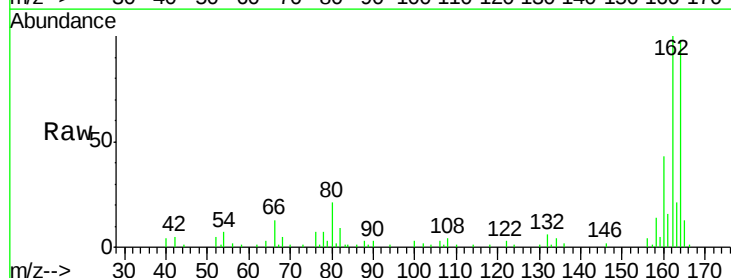


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

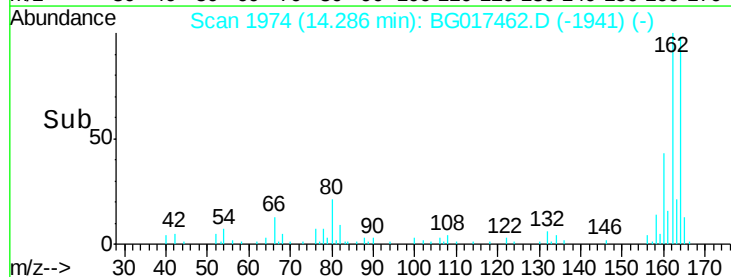
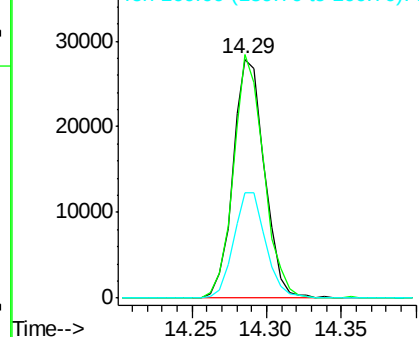


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.29 min Scan# 1974  
 Delta R.T. -0.01 min  
 Lab File: BG017462.D  
 Acq: 5 Jun 2015 5:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.0 | 81.8  | 122.6 |
| 160     | 44.3  | 31.0  | 46.4  |



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

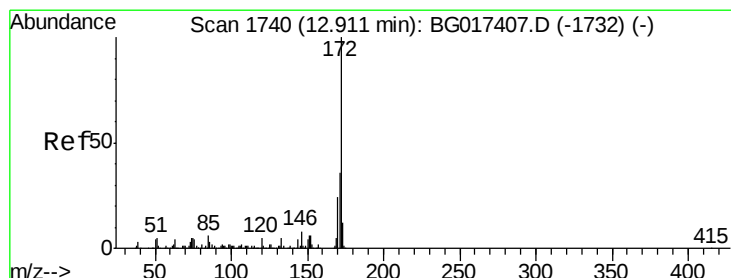
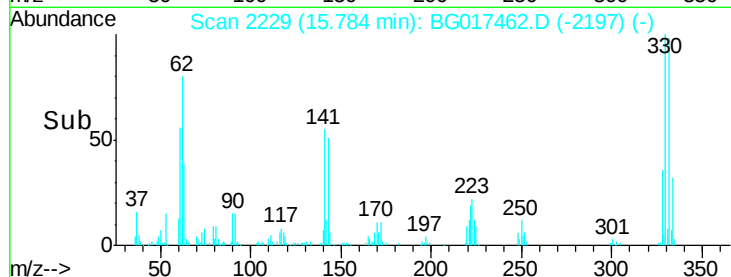
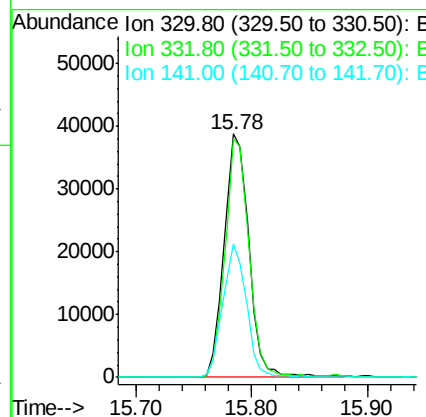
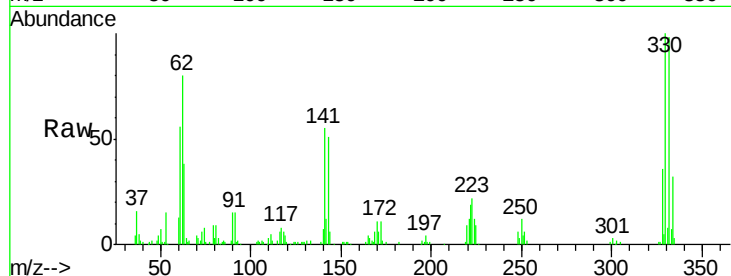




#41  
 2,4,6-Tribromophenol  
 Concen: 101.37 ng  
 RT: 15.78 min Scan# 2229  
 Delta R.T. -0.01 min  
 Lab File: BG017462.D  
 Acq: 5 Jun 2015 5:24

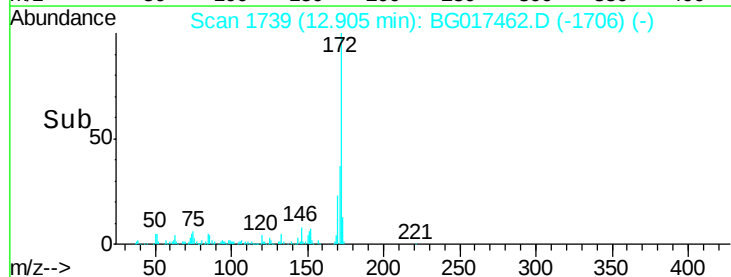
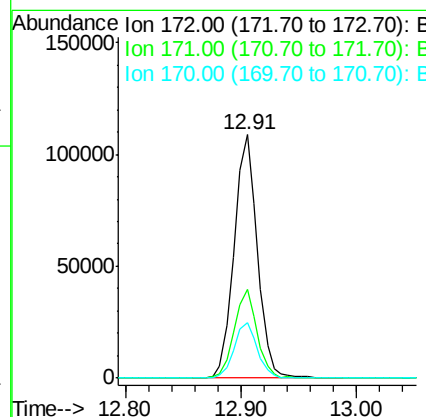
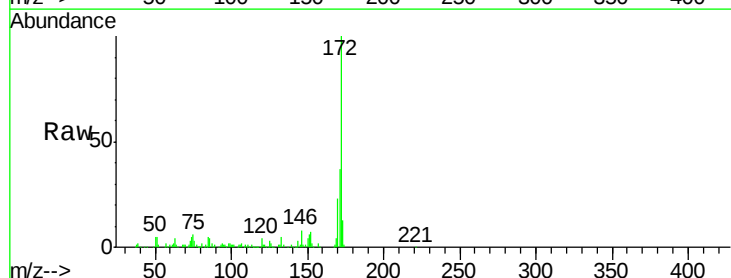
Instrument :  
 BNA\_G  
 ClientSampleId :  
 C-4

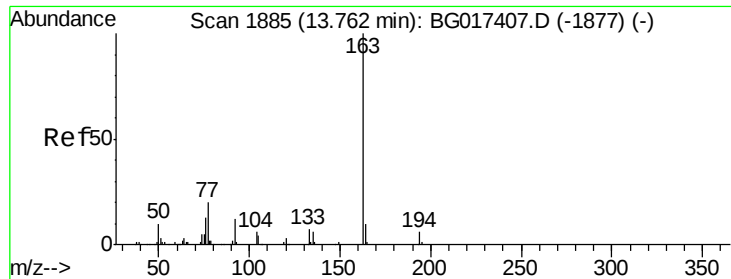
Tgt Ion:330 Resp: 57657  
 Ion Ratio Lower Upper  
 330 100  
 332 94.6 75.9 113.9  
 141 52.2 40.2 60.4



#44  
 2-Fluorobiphenyl  
 Concen: 55.70 ng  
 RT: 12.91 min Scan# 1739  
 Delta R.T. -0.01 min  
 Lab File: BG017462.D  
 Acq: 5 Jun 2015 5:24

Tgt Ion:172 Resp: 151201  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 29.0 43.6  
 170 22.6 18.9 28.3





#49

Dimethylphthalate

Concen: 6.34 ng

RT: 13.75 min Scan# 1883

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

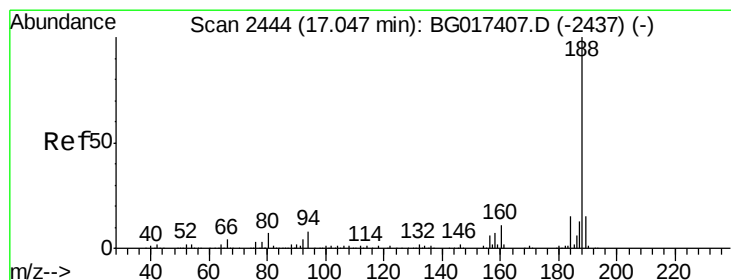
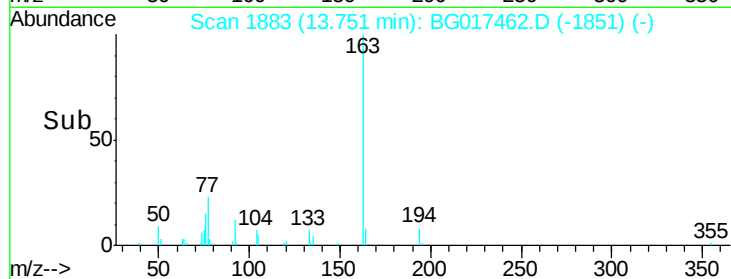
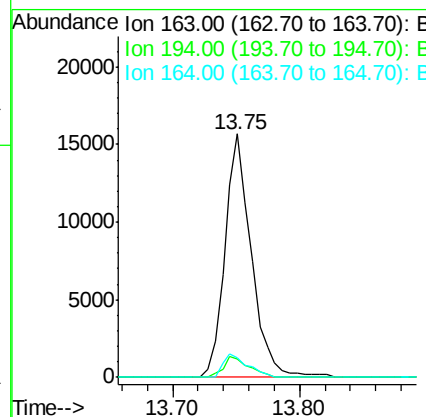
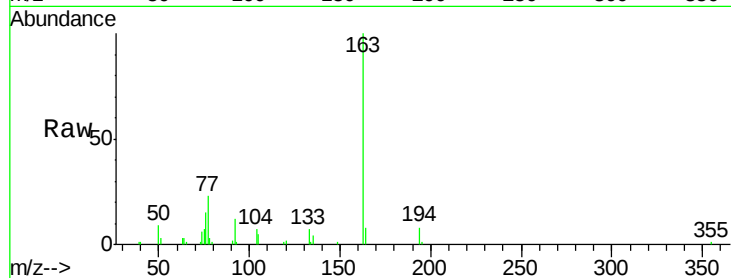
Instrument :

BNA\_G

ClientSampleId :

C-4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 22615 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 7.7   | 4.9   | 7.3#  |
| 164      | 8.3   | 8.2   | 12.2  |



#63

Phenanthrene-d10

Concen: 20.00 ng

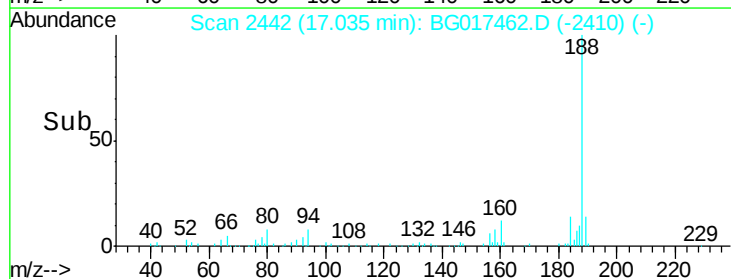
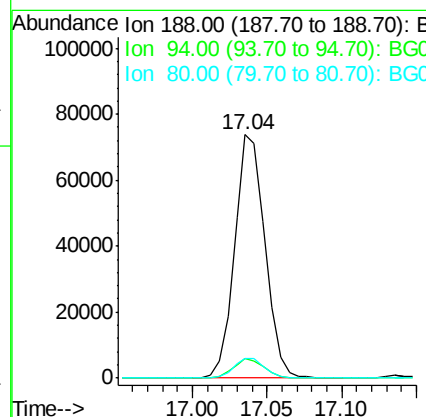
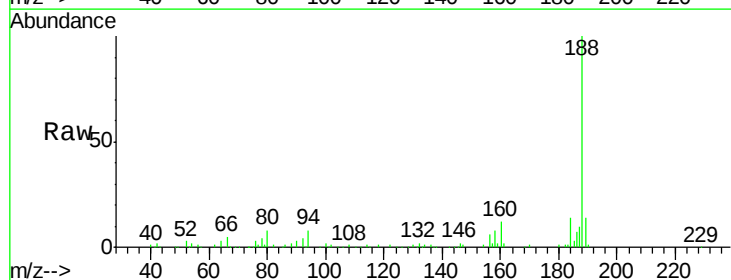
RT: 17.04 min Scan# 2442

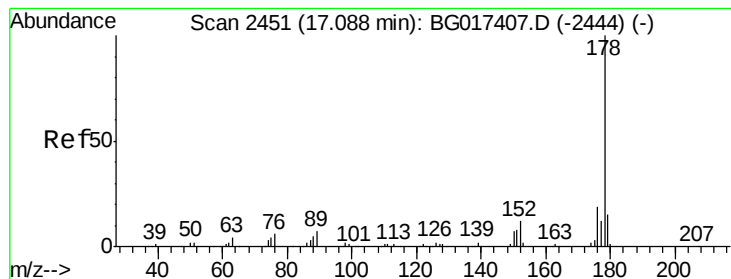
Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 104557 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 8.1   | 6.3   | 9.5    |
| 80       | 8.3   | 5.2   | 7.8#   |





#70

Phenanthrene

Concen: 2.20 ng

RT: 17.08 min Scan# 2450

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

Instrument :

BNA\_G

ClientSampleId :

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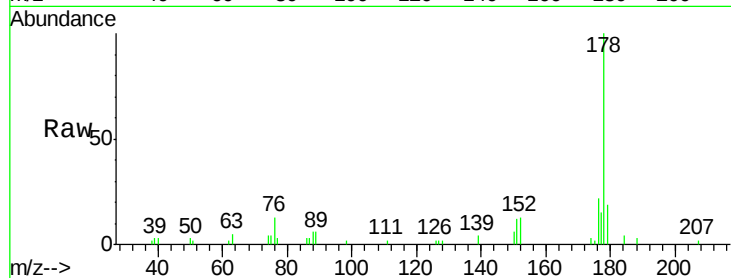
Tgt Ion:178 Resp: 12844

Ion Ratio Lower Upper

178 100

176 21.5 15.6 23.4

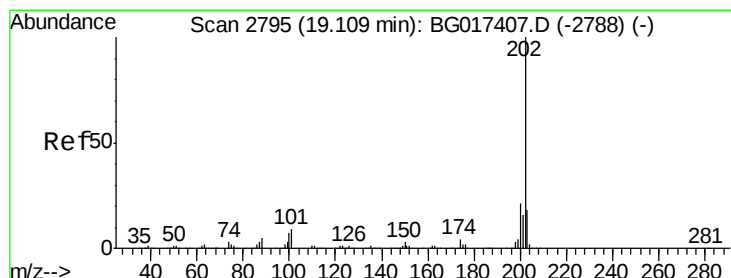
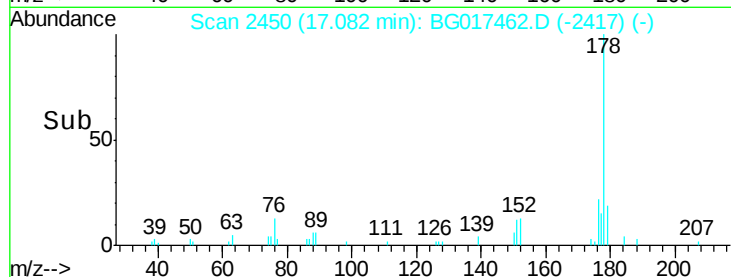
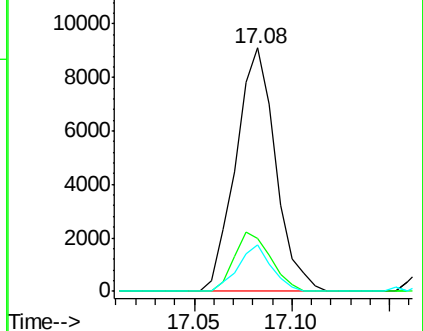
179 19.0 12.2 18.2#



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



#74

Fluoranthene

Concen: 3.99 ng

RT: 19.10 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

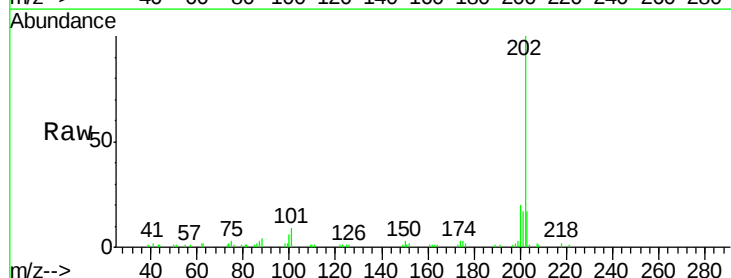
Tgt Ion:202 Resp: 30416

Ion Ratio Lower Upper

202 100

101 9.2 0.0 28.8

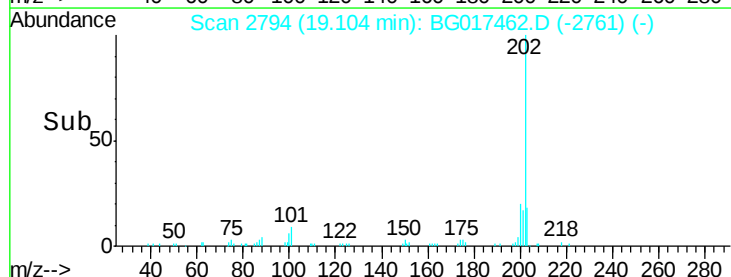
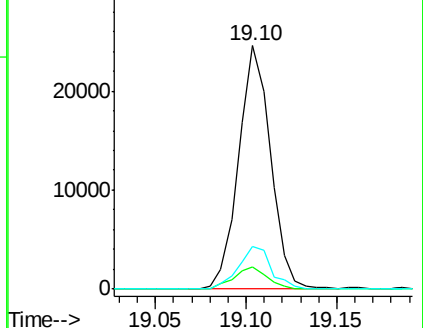
203 17.4 0.0 37.6

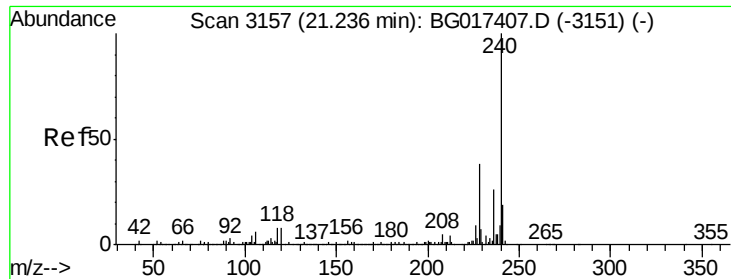


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

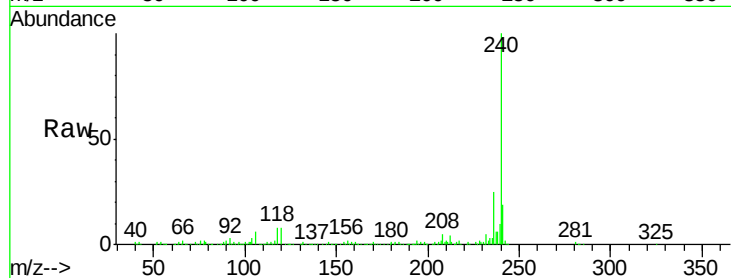




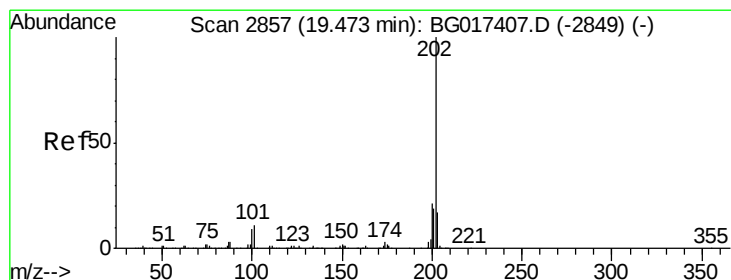
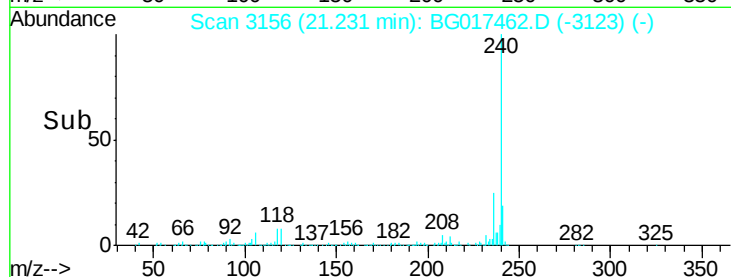
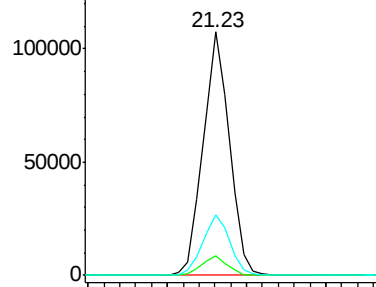
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 21.23 min Scan# 3156  
 Delta R.T. -0.01 min  
 Lab File: BG017462.D  
 Acq: 5 Jun 2015 5:24

Instrument :  
 BNA\_G  
 ClientSampleId :  
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Tgt Ion: 240 Resp: 123578  
 Ion Ratio Lower Upper  
 240 100  
 120 7.8 6.5 9.7  
 236 24.6 20.8 31.2

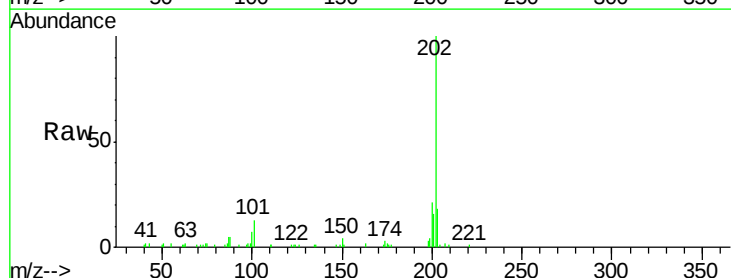


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

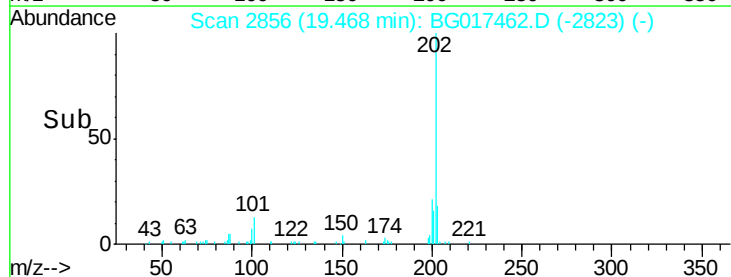
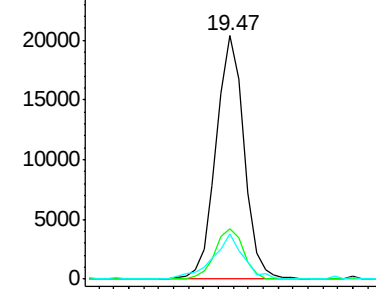


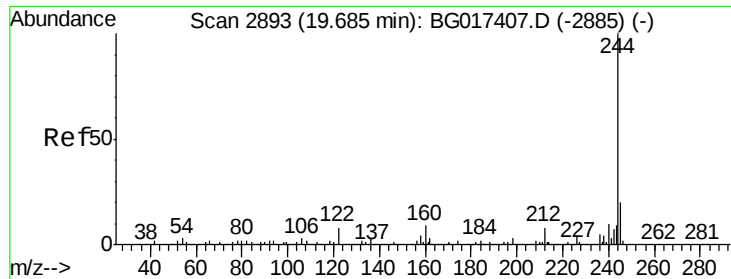
#77  
 Pyrene  
 Concen: 3.48 ng  
 RT: 19.47 min Scan# 2856  
 Delta R.T. -0.01 min  
 Lab File: BG017462.D  
 Acq: 5 Jun 2015 5:24

Tgt Ion: 202 Resp: 26467  
 Ion Ratio Lower Upper  
 202 100  
 200 20.6 17.0 25.4  
 203 18.4 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 44.90 ng

RT: 19.68 min Scan# 2892

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

Instrument :

BNA\_G

ClientSampleId :

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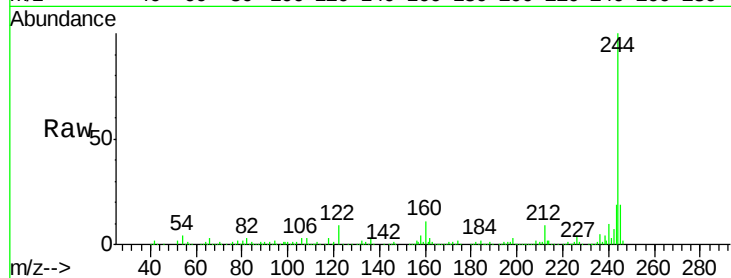
Tgt Ion:244 Resp: 268439

Ion Ratio Lower Upper

244 100

212 8.6 6.4 9.6

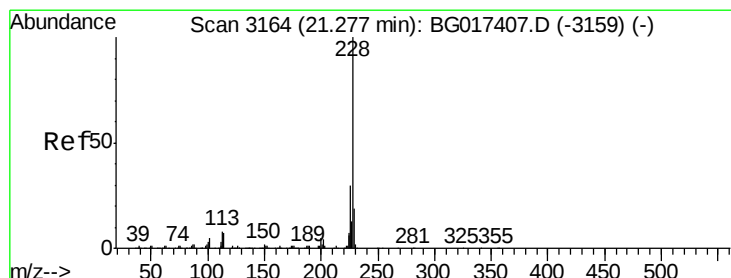
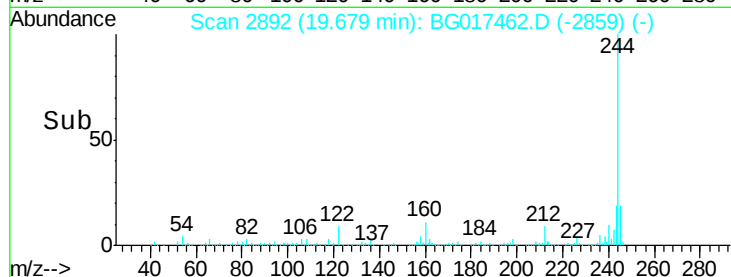
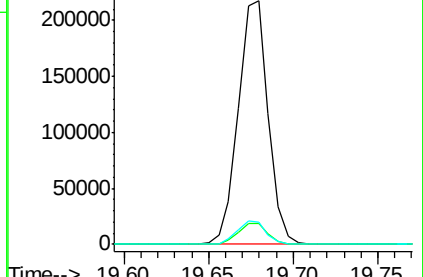
122 8.9 6.6 10.0



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



#82

Chrysene

Concen: 2.12 ng

RT: 21.27 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

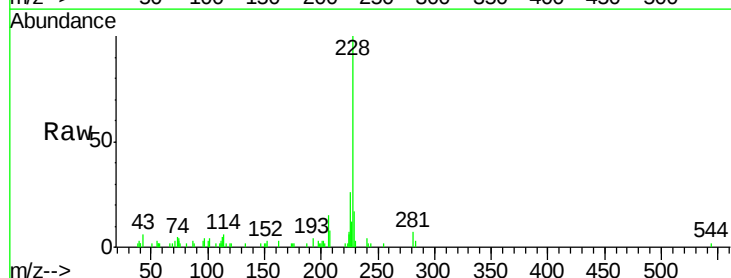
Tgt Ion:228 Resp: 14558

Ion Ratio Lower Upper

228 100

226 26.0 23.7 35.5

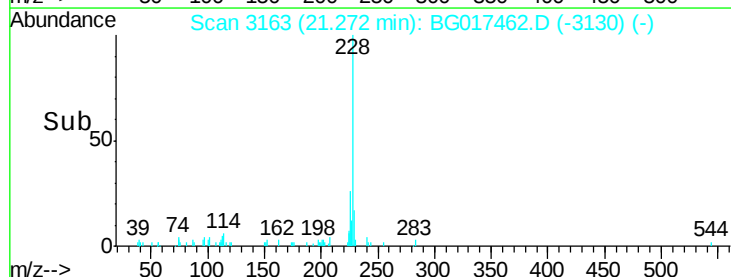
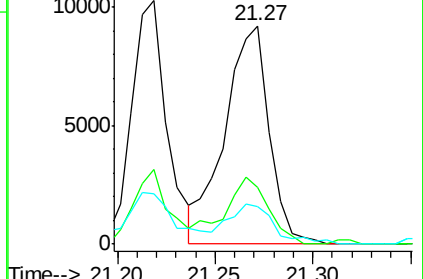
229 17.3 15.2 22.8

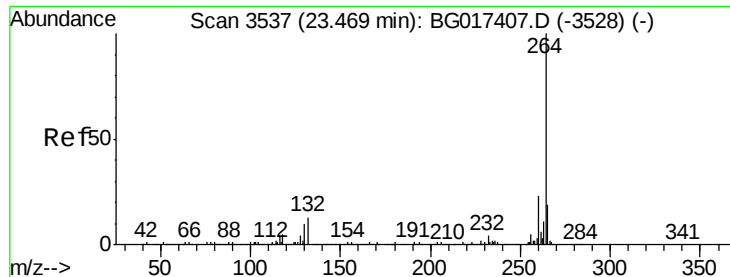


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 23.47 min Scan# 3537

Delta R.T. 0.00 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

Instrument :

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ClientSampleId :

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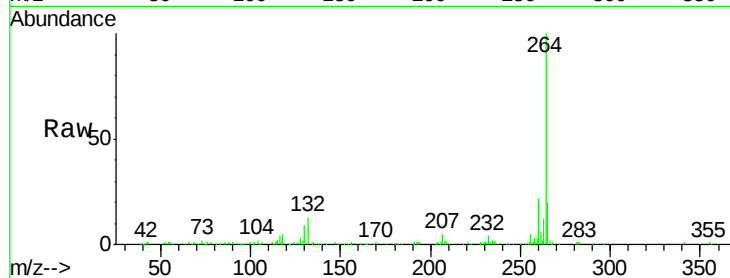
Tgt Ion:264 Resp: 125257

Ion Ratio Lower Upper

264 100

260 22.3 18.2 27.4

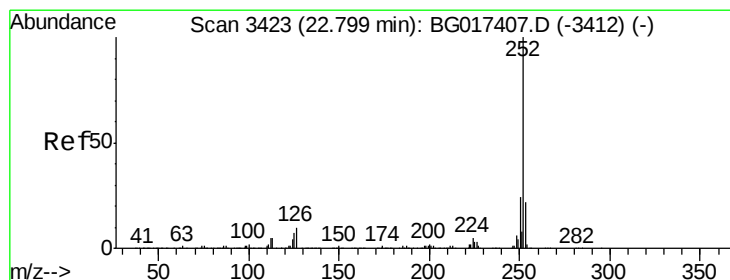
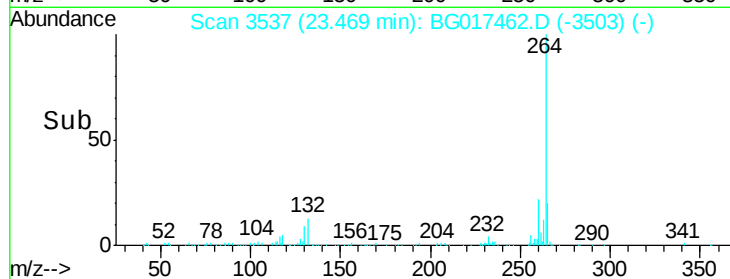
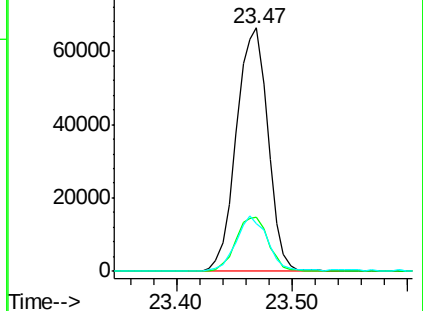
265 19.9 15.8 23.6



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



#87

Benzo(b)fluoranthene

Concen: 2.96 ng

RT: 22.79 min Scan# 3422

Delta R.T. -0.01 min

Lab File: BG017462.D

Acq: 5 Jun 2015 5:24

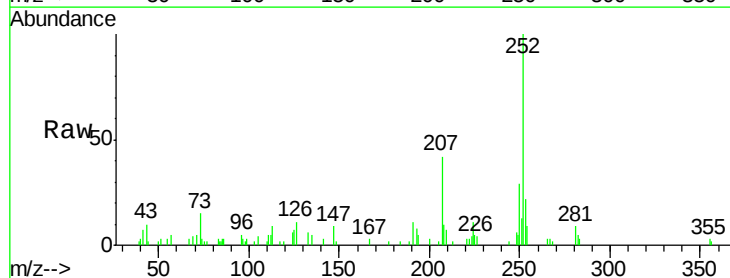
Tgt Ion:252 Resp: 23510

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

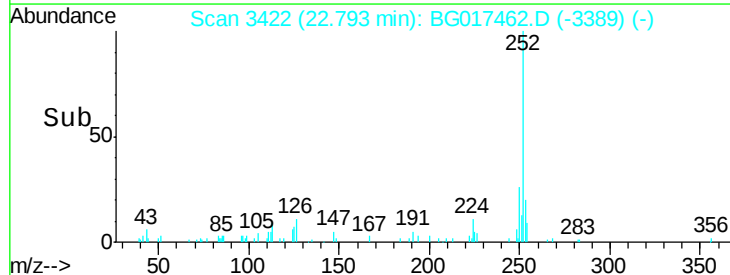
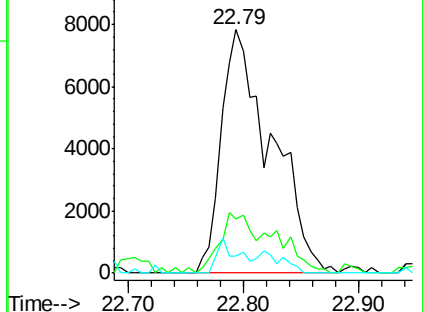
125 7.0 5.8 8.8

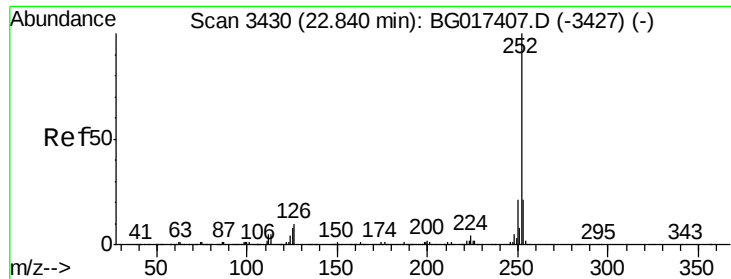


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 3.10 ng

RT: 22.79 min Scan# 3422

Delta R.T. -0.05 min

Lab File: BG017462.D

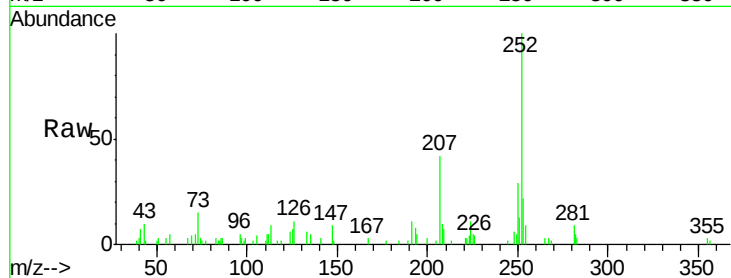
Acq: 5 Jun 2015 5:24

Instrument :

BNA\_G

ClientSampleId :

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|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 23510 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 22.0  | 17.7  | 26.5  |
| 125      | 7.0   | 6.5   | 9.7   |

