

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082216\  
 Data File : BG023834.D  
 Acq On : 22 Aug 2016 15:37  
 Operator : UM/SJ  
 Sample : H4500-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HSR-WC-65-081616

Quant Time: Aug 22 16:57:49 2016  
 Quant Method : Z:\HPCHEM1\BNA G\Methods\8270-BG080116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 01 19:22:14 2016  
 Response via : Initial Calibration

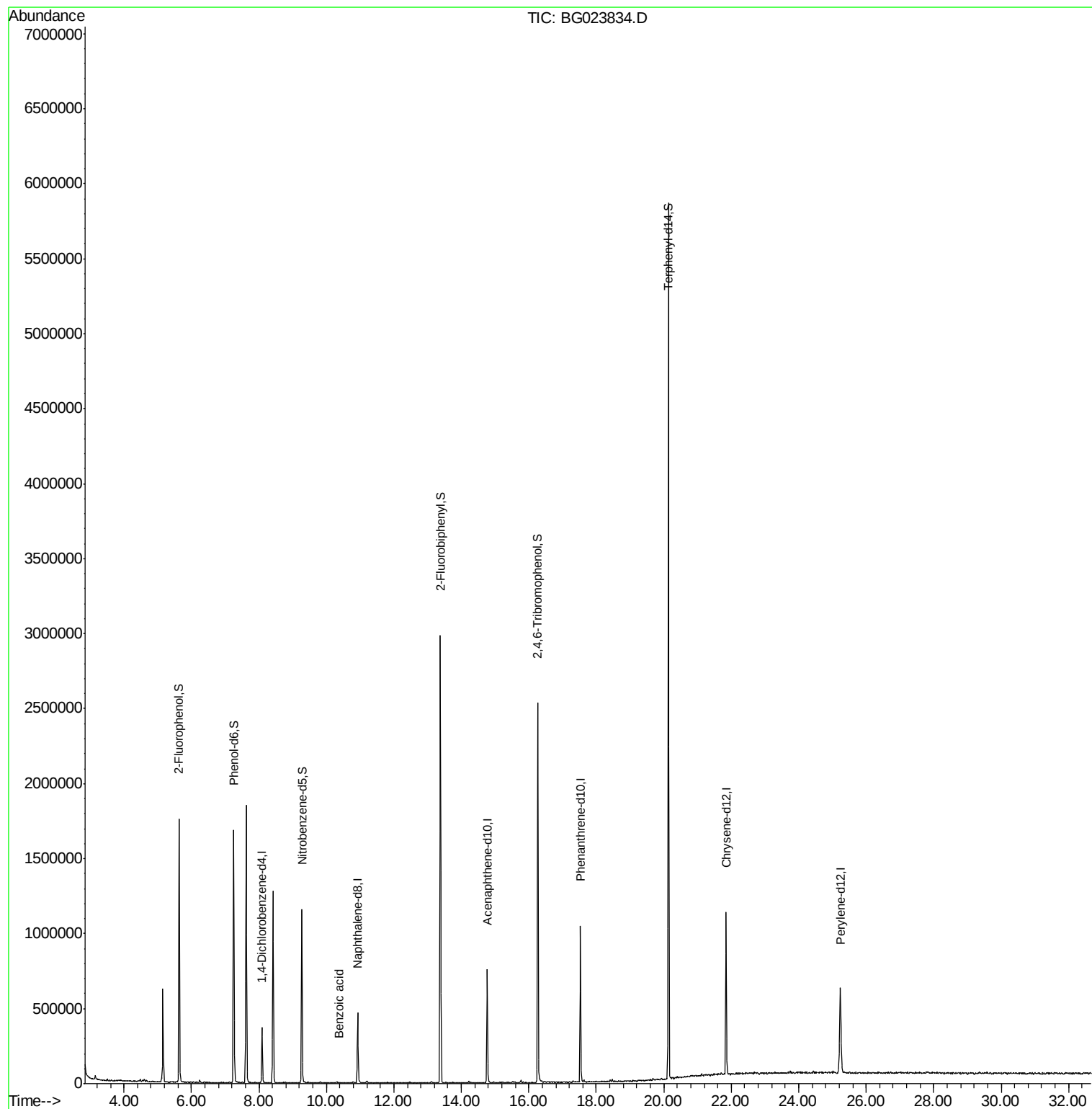
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.09  | 152  | 96566    | 20.00     | ng    | -0.03    |
| 21) Naphthalene-d8          | 10.93 | 136  | 400657   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10        | 14.77 | 164  | 264317   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.53 | 188  | 616047   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12            | 21.85 | 240  | 679712   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12            | 25.23 | 264  | 665955   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.63  | 112  | 733566   | 127.87    | ng    | -0.03    |
| 7) Phenol-d6                | 7.25  | 99   | 989492   | 110.74    | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 9.27  | 82   | 769177   | 95.44     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.27 | 330  | 477986   | 123.63    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 1463937  | 93.42     | ng    | -0.02    |
| 78) Terphenyl-d14           | 20.14 | 244  | 2277441  | 110.63    | ng    | -0.01    |
| Target Compounds            |       |      |          |           |       |          |
| 9) Benzaldehyde             | 7.26  | 77   | 2184     | Below Cal | #     | 8        |
| 32) Benzoic acid            | 10.37 | 122  | 67       | 6.45 ng   | #     | 1        |
| 73) Di-n-butylphthalate     | 18.48 | 149  | 7841     | Below Cal | #     | 95       |
| 74) Fluoranthene            | 19.59 | 202  | 699      | Below Cal | #     | 60       |
| 77) Pyrene                  | 20.14 | 202  | 10635    | Below Cal | #     | 81       |

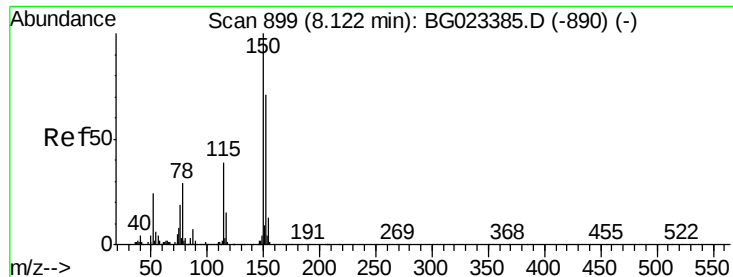
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082216\  
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HSR-WC-65-081616

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 01 19:22:14 2016  
Response via : Initial Calibration



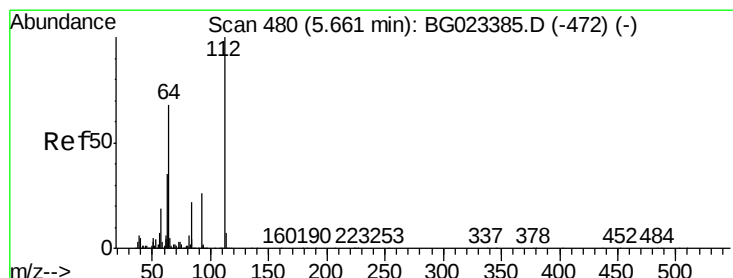
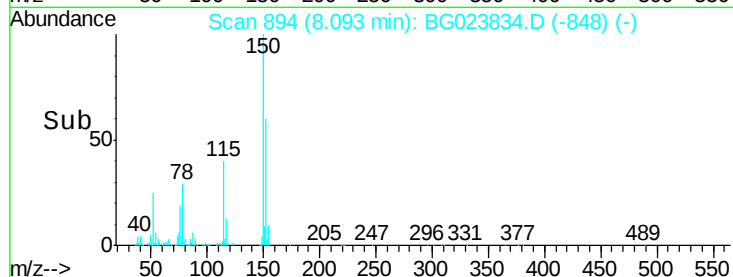
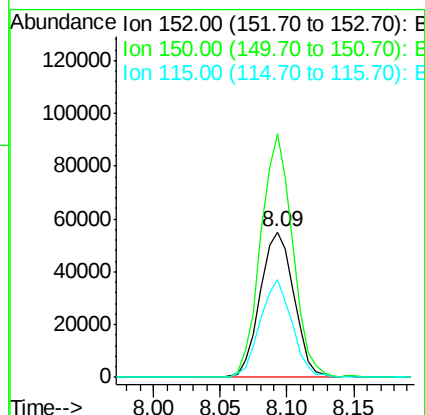
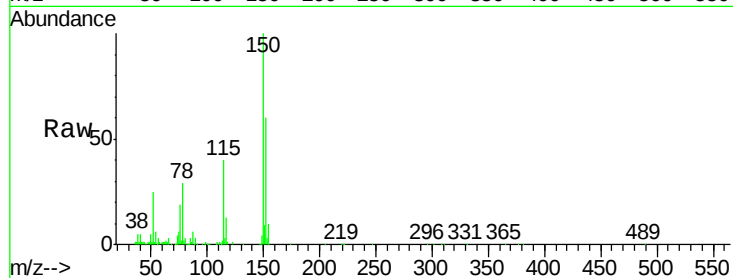


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.09 min Scan# 894  
Delta R.T. -0.03 min  
Lab File: BG023834.D  
Acq: 22 Aug 2016 15:37

Instrument :  
BNA\_G  
ClientSampleId :  
HSR-WC-65-081616

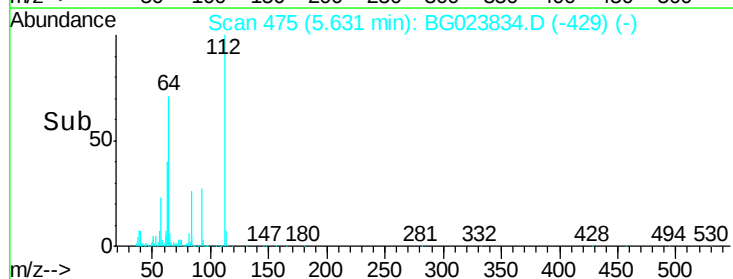
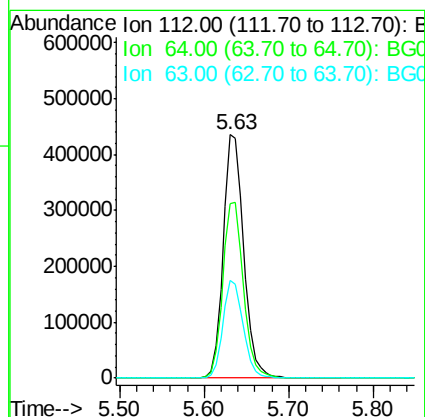
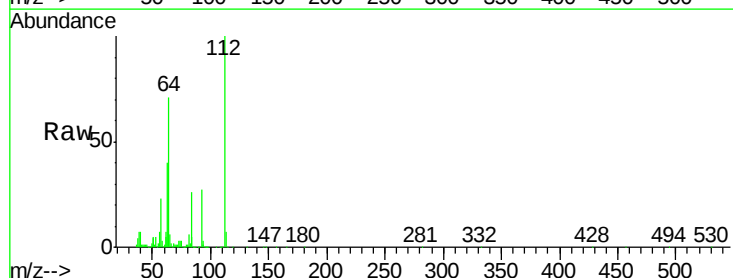
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 167.2 | 144.7 | 217.1 |
| 115     | 67.0  | 64.0  | 96.0  |

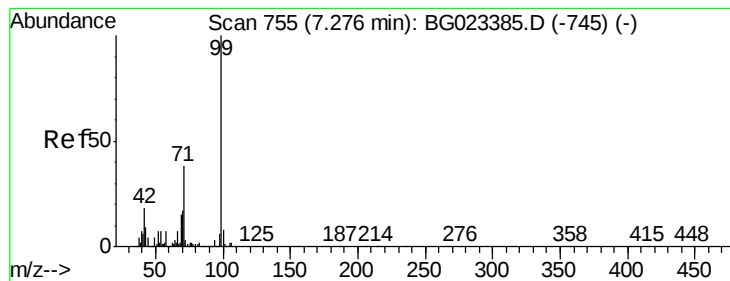


#5

2-Fluorophenol  
Concen: 127.87 ng  
RT: 5.63 min Scan# 475  
Delta R.T. -0.03 min  
Lab File: BG023834.D  
Acq: 22 Aug 2016 15:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 71.4  | 59.0  | 88.4  |
| 63      | 40.0  | 37.8  | 56.8  |





#7

Phenol-d6

Concen: 110.74 ng

RT: 7.25 min Scan# 751

Delta R.T. -0.02 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

Instrument :

BNA\_G

ClientSampleId :

HSR-WC-65-081616

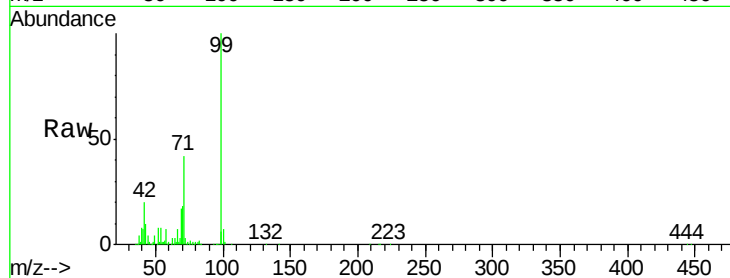
Tot Ion: 99 Resp: 989492

Ion Ratio Lower Upper

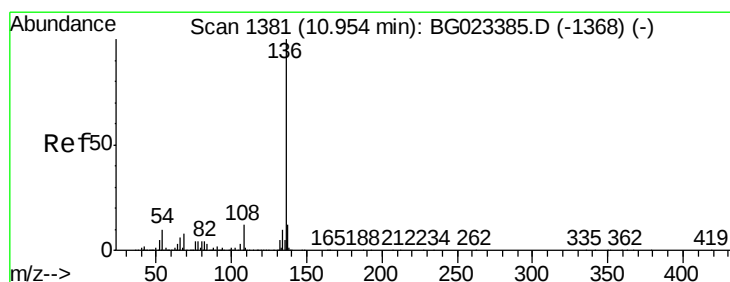
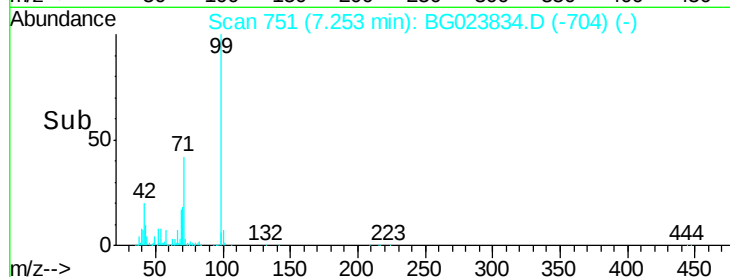
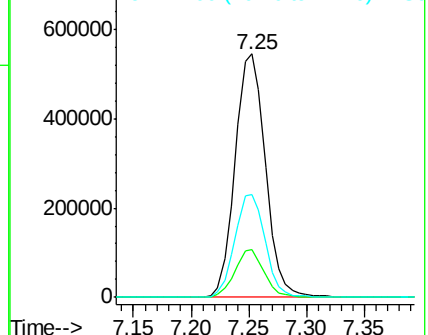
99 100

42 19.6 17.8 26.6

71 42.5 41.5 62.3



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: 10.93 min Scan# 1377

Delta R.T. -0.02 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

Tgt Ion: 136 Resp: 400657

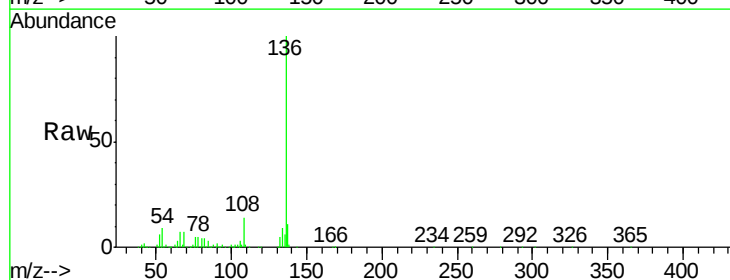
Ion Ratio Lower Upper

136 100

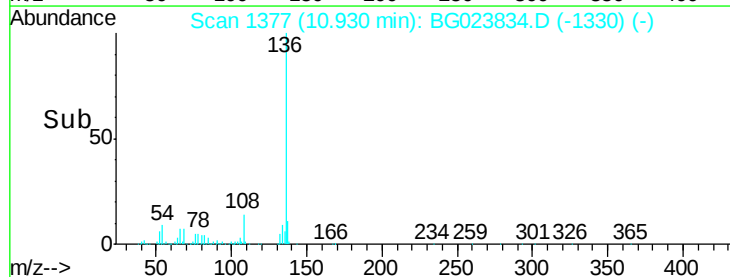
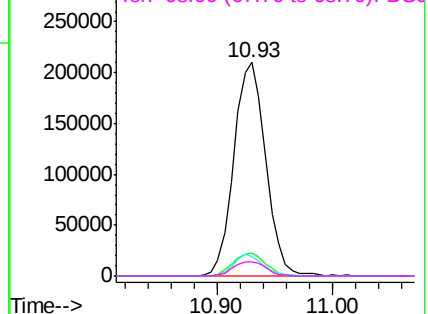
137 10.9 9.6 14.4

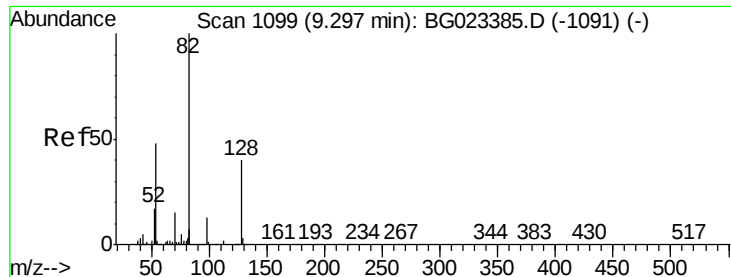
54 9.3 7.3 10.9

68 6.5 5.3 7.9



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

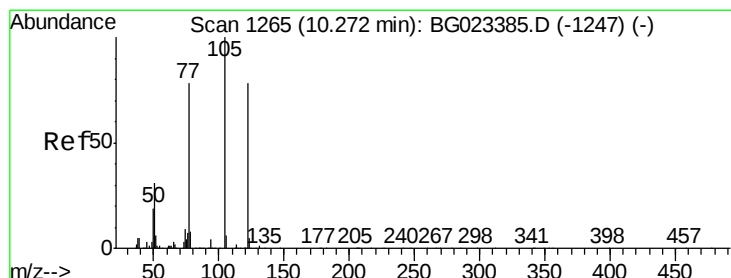
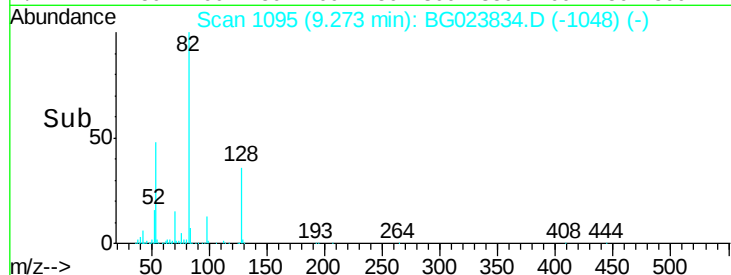
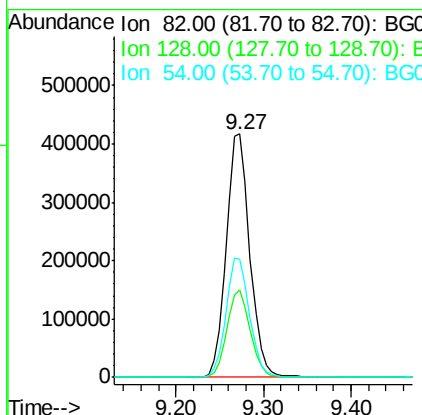
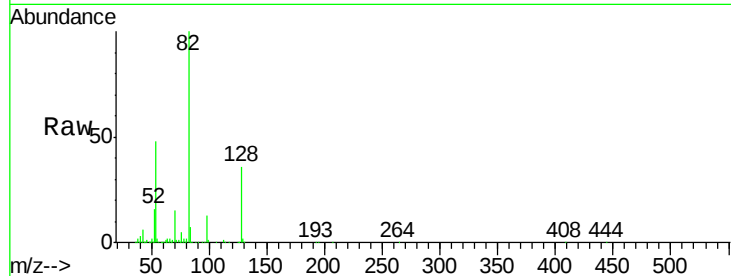




#23  
 Nitrobenzene-d5  
 Concen: 95.44 ng  
 RT: 9.27 min Scan# 1095  
 Delta R.T. -0.02 min  
 Lab File: BG023834.D  
 Acq: 22 Aug 2016 15:37

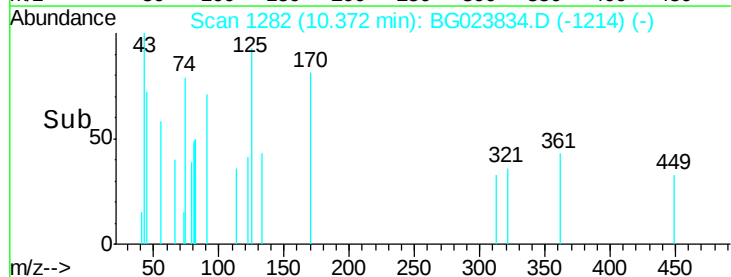
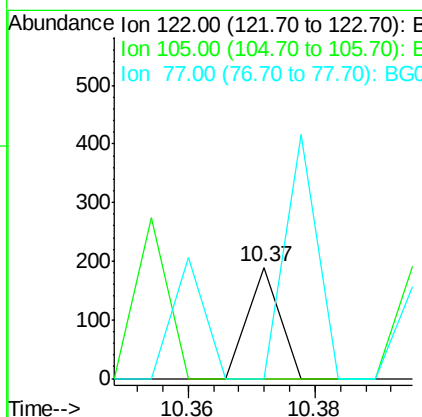
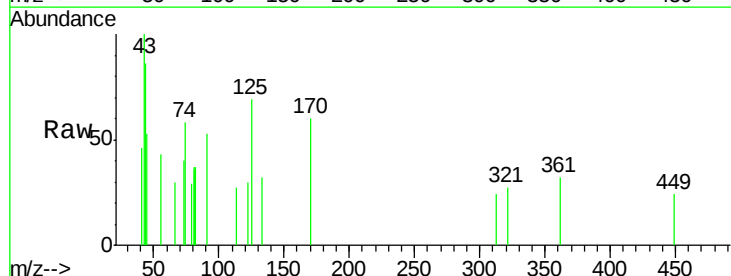
Instrument :  
 BNA\_G  
 ClientSampleId :  
 HSR-WC-65-081616

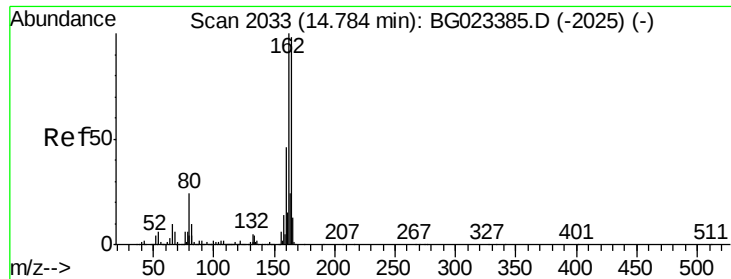
| Tot Ion   | 82    | Resp  | 769177 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 35.8  | 24.4  | 36.6   |
| 54        | 48.3  | 41.4  | 62.0   |



#32  
 Benzoic acid  
 Concen: 6.45 ng  
 RT: 10.37 min Scan# 1282  
 Delta R.T. 0.10 min  
 Lab File: BG023834.D  
 Acq: 22 Aug 2016 15:37

| Tgt Ion   | 122   | Resp  | 67     |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 105       | 0.0   | 117.2 | 157.2# |
| 77        | 0.0   | 109.2 | 149.2# |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.77 min Scan# 2030

Delta R.T. -0.02 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

Instrument :

BNA\_G

ClientSampleId :

HSR-WC-65-081616

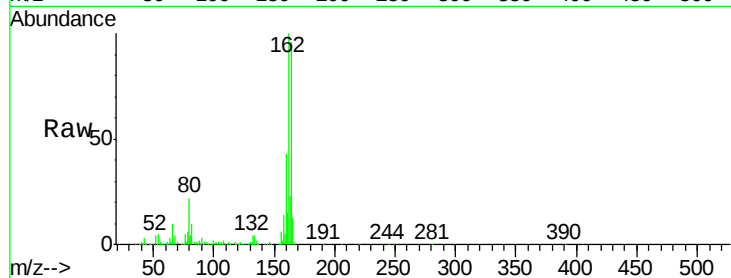
Tot Ion:164 Resp: 264317

Ion Ratio Lower Upper

164 100

162 103.8 87.7 131.5

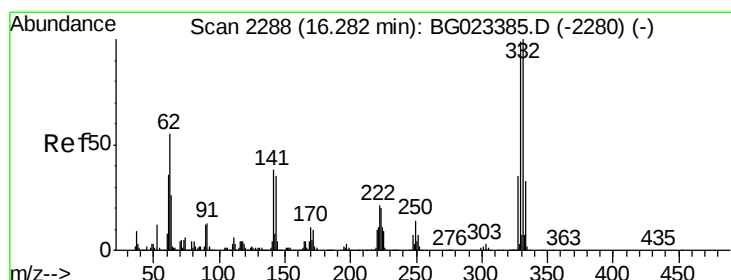
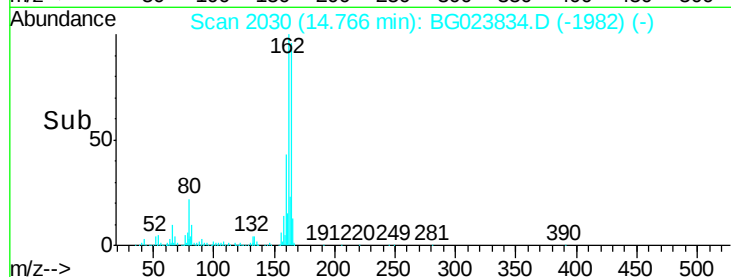
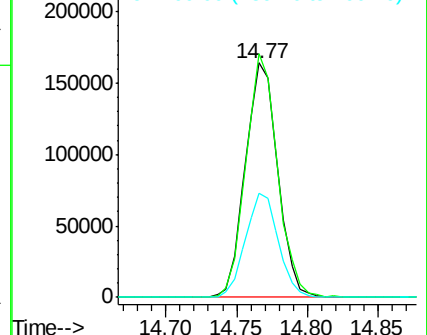
160 44.2 37.2 55.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 123.63 ng

RT: 16.27 min Scan# 2286

Delta R.T. -0.01 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

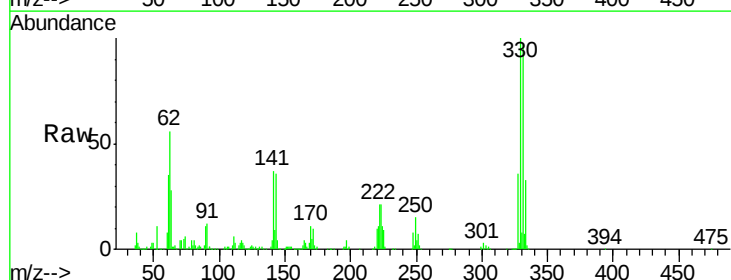
Tgt Ion:330 Resp: 477986

Ion Ratio Lower Upper

330 100

332 95.0 77.4 116.2

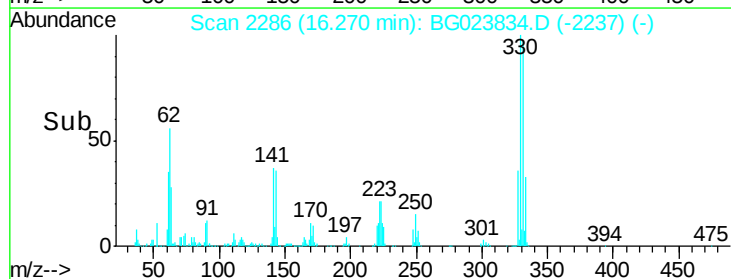
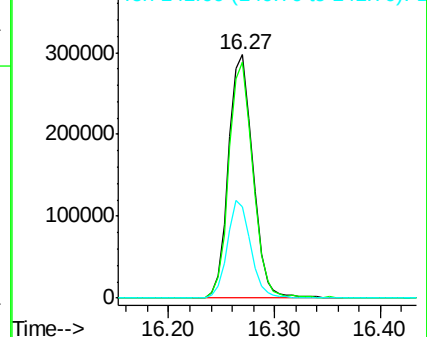
141 38.3 31.7 47.5

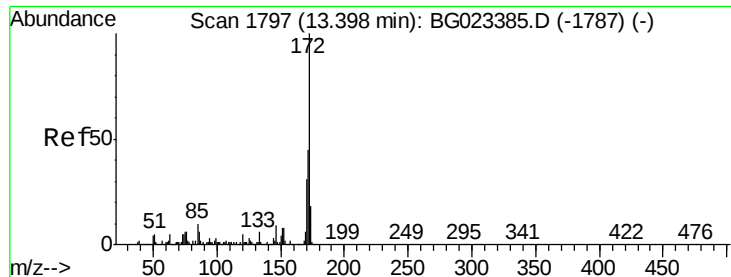


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

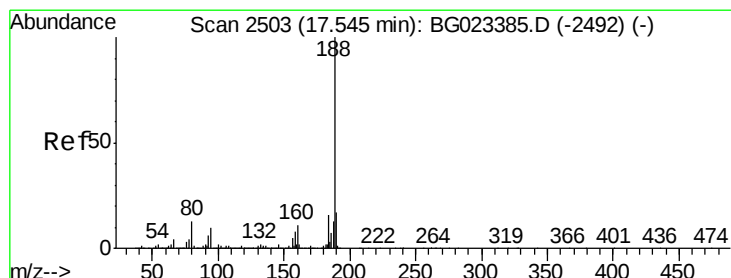
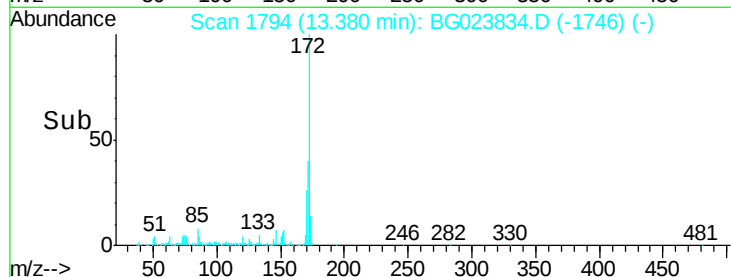
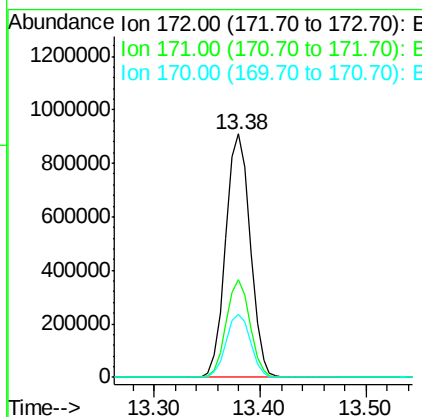
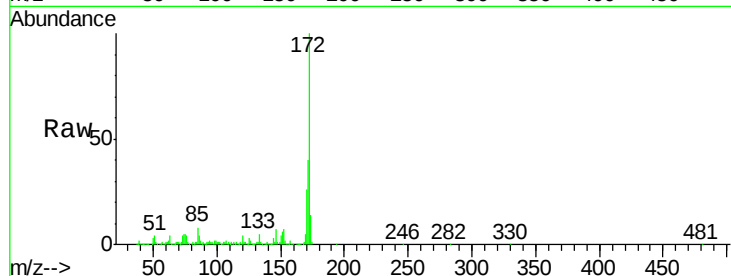




#44  
2-Fluorobiphenyl  
Concen: 93.42 ng  
RT: 13.38 min Scan# 1794  
Delta R.T. -0.02 min  
Lab File: BG023834.D  
Acq: 22 Aug 2016 15:37

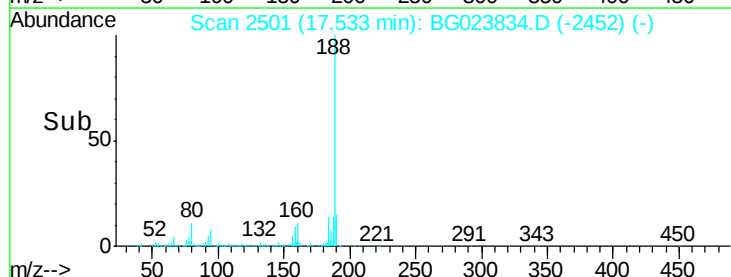
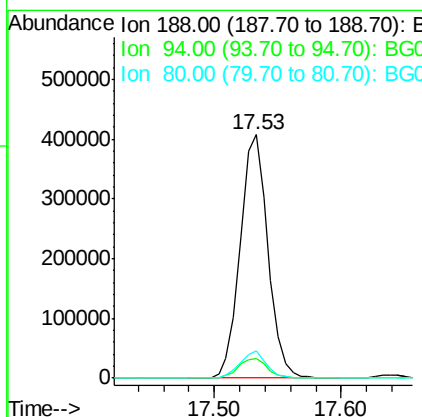
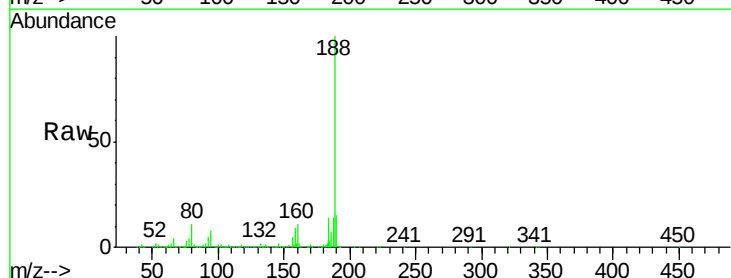
Instrument :  
BNA\_G  
ClientSampleId :  
HSR-WC-65-081616

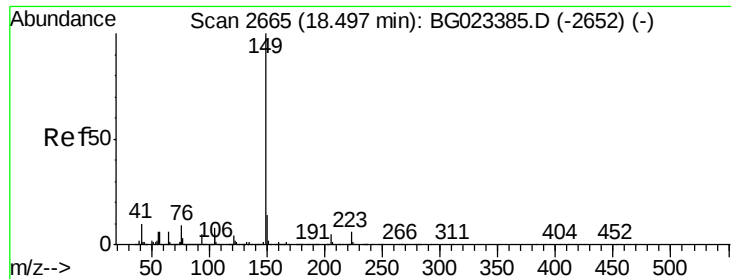
Tot Ion:172 Resp: 1463937  
Ion Ratio Lower Upper  
172 100  
171 39.9 31.6 47.4  
170 26.1 21.3 31.9



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.53 min Scan# 2501  
Delta R.T. -0.01 min  
Lab File: BG023834.D  
Acq: 22 Aug 2016 15:37

Tgt Ion:188 Resp: 616047  
Ion Ratio Lower Upper  
188 100  
94 8.3 5.2 7.8#  
80 11.0 7.2 10.8#

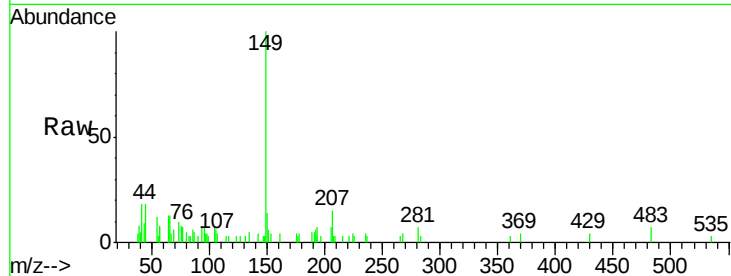




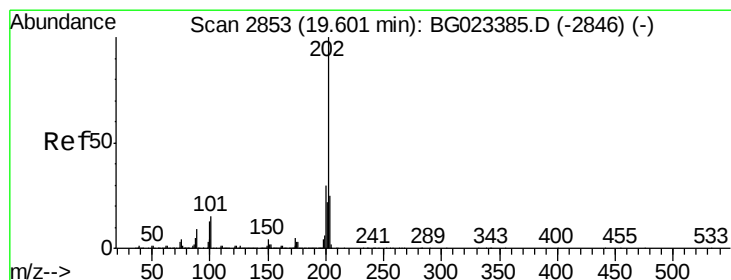
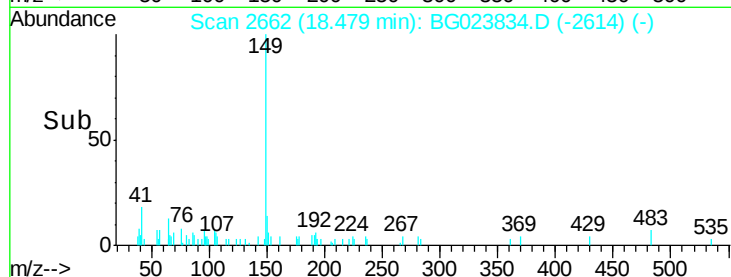
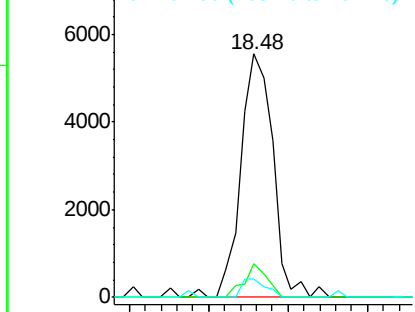
#73  
Di-n-butylphthalate  
Concen: Below Cal  
RT: 18.48 min Scan# 2662  
Delta R.T. -0.02 min  
Lab File: BG023834.D  
Acq: 22 Aug 2016 15:37

Instrument :  
BNA\_G  
ClientSampleId :  
HSR-WC-65-081616

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 13.8  | 9.1   | 13.7# |
| 104     | 7.5   | 6.9   | 10.3  |

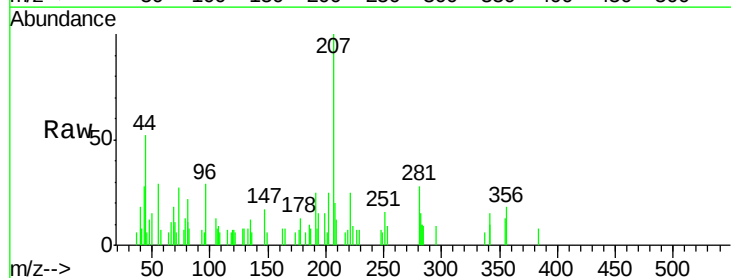


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E

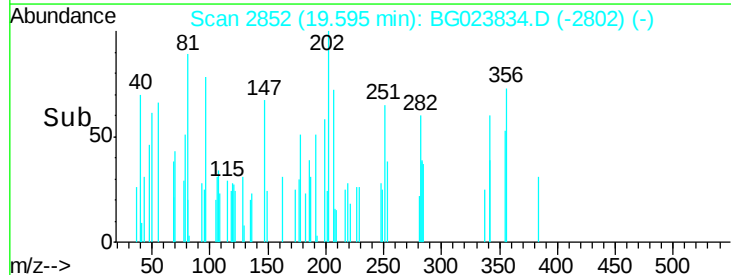
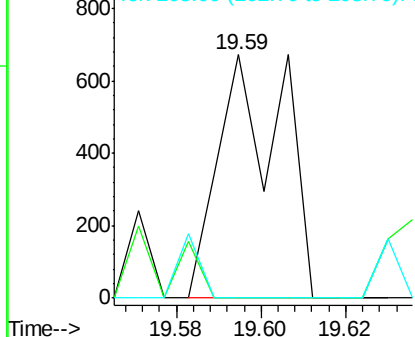


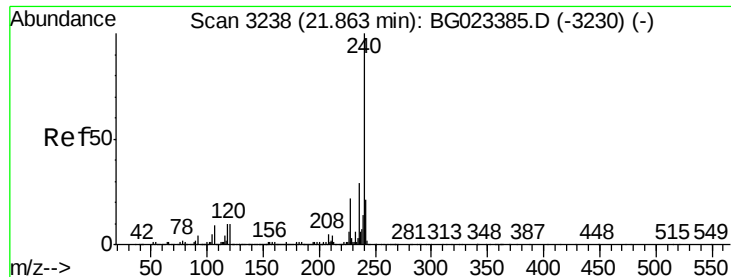
#74  
Fluoranthene  
Concen: Below Cal  
RT: 19.59 min Scan# 2852  
Delta R.T. -0.01 min  
Lab File: BG023834.D  
Acq: 22 Aug 2016 15:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 0.0   | 0.0   | 27.4  |
| 203     | 0.0   | 1.7   | 41.7# |



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: 21.85 min Scan# 3236

Delta R.T. -0.01 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

Instrument :

BNA\_G

ClientSampleId :

HSR-WC-65-081616

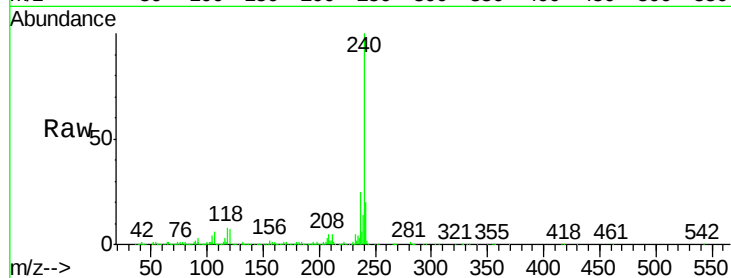
Tot Ion:240 Resp: 679712

Ion Ratio Lower Upper

240 100

120 7.3 4.1 6.1#

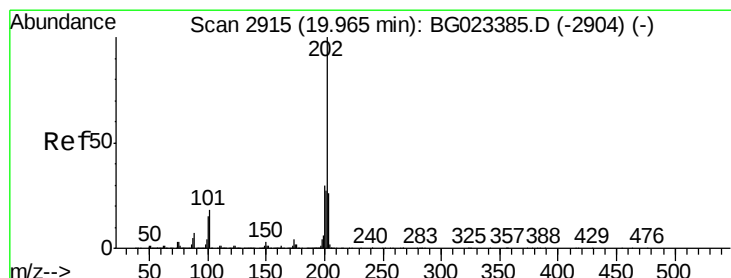
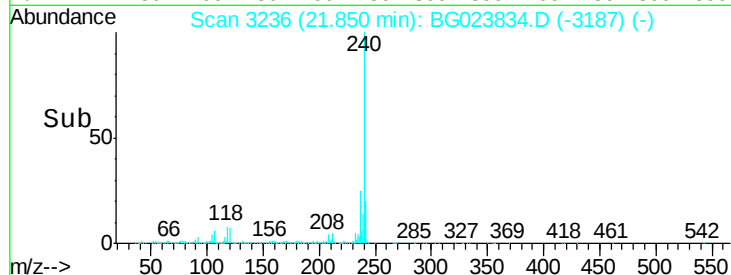
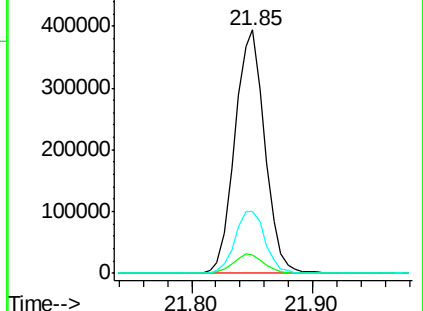
236 25.3 21.1 31.7



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: Below Cal

RT: 20.14 min Scan# 2945

Delta R.T. 0.18 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

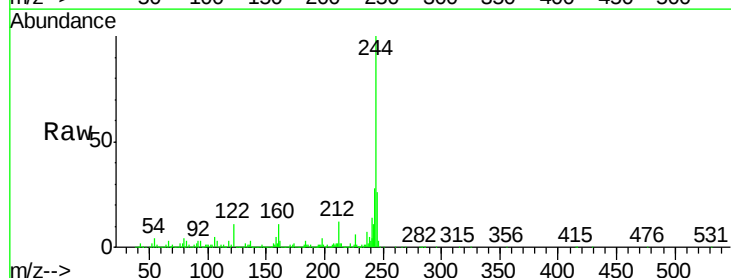
Tgt Ion:202 Resp: 10635

Ion Ratio Lower Upper

202 100

200 40.9 21.2 31.8#

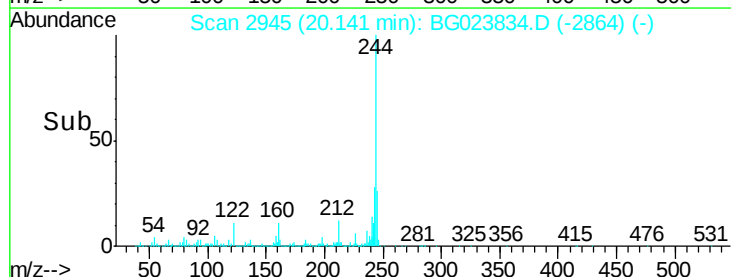
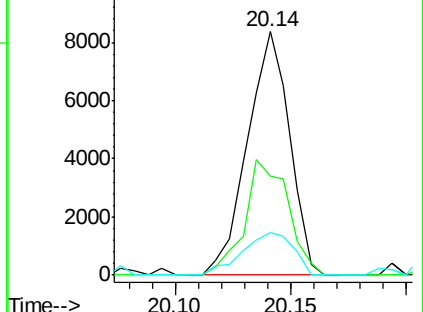
203 17.5 16.8 25.2

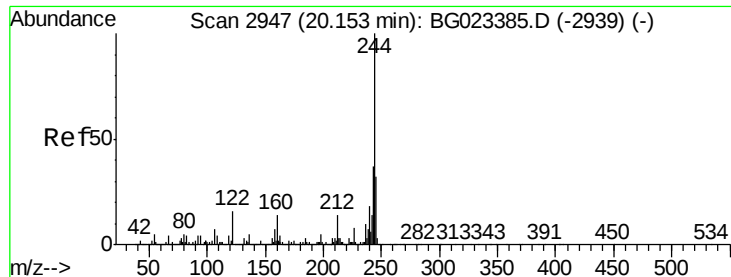


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 110.63 ng

RT: 20.14 min Scan# 2945

Delta R.T. -0.01 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

Instrument :

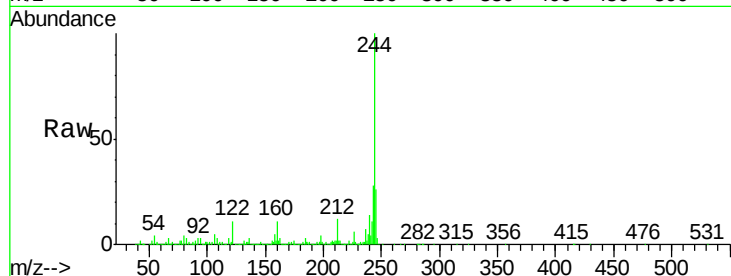
BNA\_G

ClientSampleId :

HSR-WC-65-081616

Tot Ion:244 Resp: 2277441

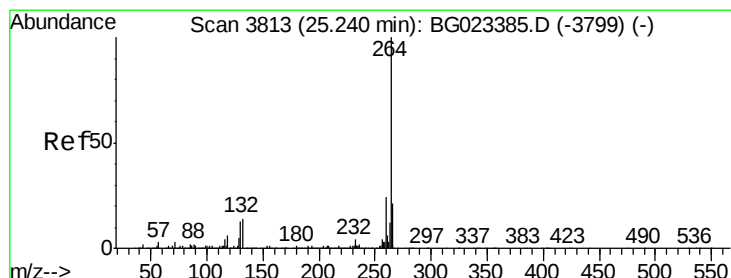
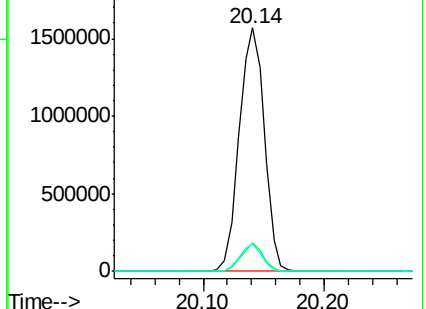
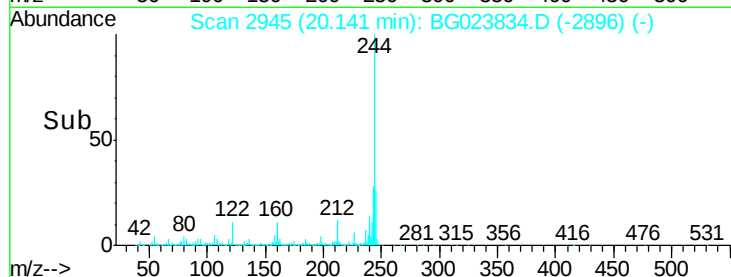
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 11.6  | 10.8  | 16.2  |
| 122 | 11.2  | 8.0   | 12.0  |



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.23 min Scan# 3811

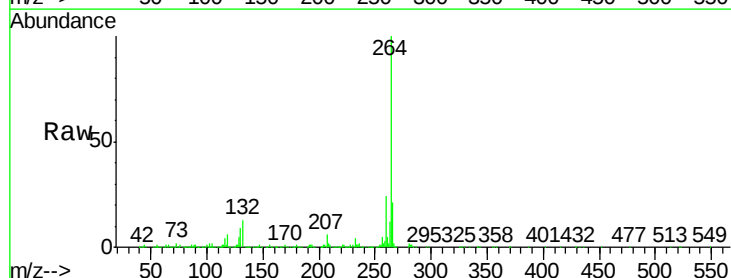
Delta R.T. -0.01 min

Lab File: BG023834.D

Acq: 22 Aug 2016 15:37

Tgt Ion:264 Resp: 665955

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.0  | 18.4  | 27.6  |
| 265 | 21.2  | 18.9  | 28.3  |



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

