

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030216\  
 Data File : BG021217.D  
 Acq On : 2 Mar 2016 17:43  
 Operator : UM/SJ  
 Sample : H1557-01RE 10X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-09RE

Manual Integrations  
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 3/3/2016 8:23:14 AM

Quant Time: Mar 03 00:40:45 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 02 11:46:16 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.14  | 152  | 14408    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.96 | 136  | 75382    | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 14.76 | 164  | 44702    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.50 | 188  | 95549    | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.76 | 240  | 100537   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 25.05 | 264  | 97107    | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.70  | 112  | 6213     | 6.86  | ng    | 0.00     |
| 7) Phenol-d6                | 7.30  | 99   | 10364    | 6.95  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.31  | 82   | 7945     | 4.46  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.24 | 330  | 2705     | 5.82  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 14208    | 4.51  | ng    | -0.01    |
| 78) Terphenyl-d14           | 20.09 | 244  | 18580    | 4.48  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 74) Fluoranthene            | 19.54 | 202  | 37568    | 6.20  | ng    | 96       |
| 77) Pyrene                  | 19.89 | 202  | 39202    | 6.54  | ng    | 98       |
| 80) Benzo(a)anthracene      | 21.74 | 228  | 29565    | 4.97  | ng    | 95       |
| 82) Chrysene                | 21.81 | 228  | 27048    | 4.80  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 24.01 | 252  | 53431    | 8.75  | ng    | # 92     |
| 88) Benzo(k)fluoranthene    | 24.07 | 252  | 13183m   | 2.16  | ng    |          |

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

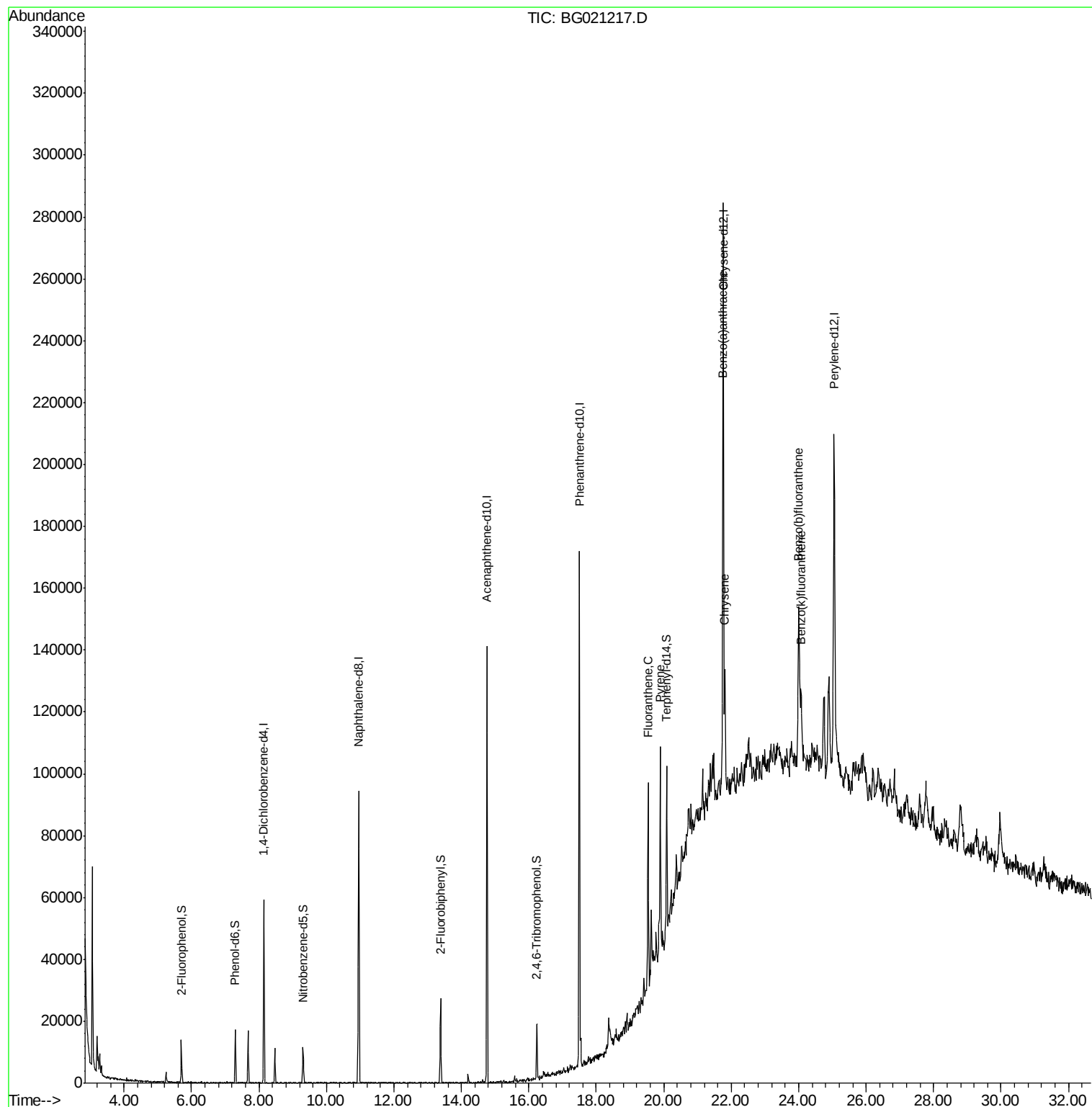
Data Path : Z:\HPCHEM1\BNA G\DATA\BG030216\  
Data File : BG021217.D  
Acq On : 2 Mar 2016 17:43  
Operator : UM/SJ  
Sample : H1557-01RE 10X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

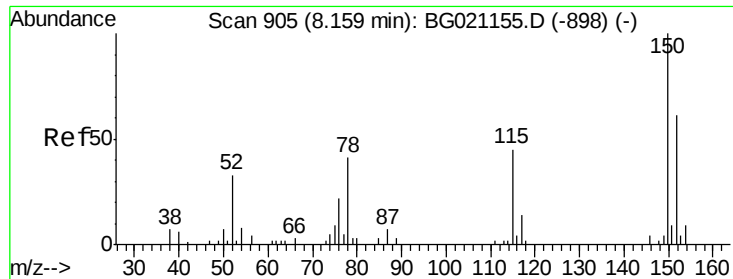
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Time: Mar 03 00:40:45 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 02 11:46:16 2016  
Response via : Initial Calibration





#1

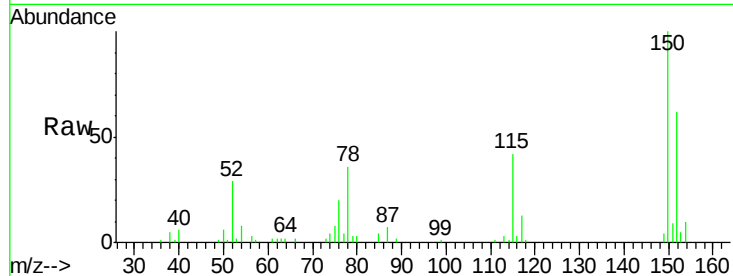
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.14 min Scan# 903  
Delta R.T. -0.02 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

Instrument :  
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ClientSampleId :  
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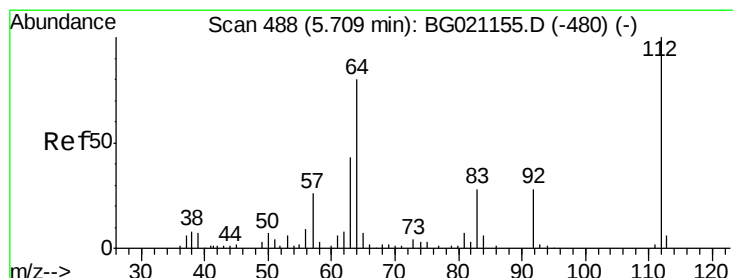
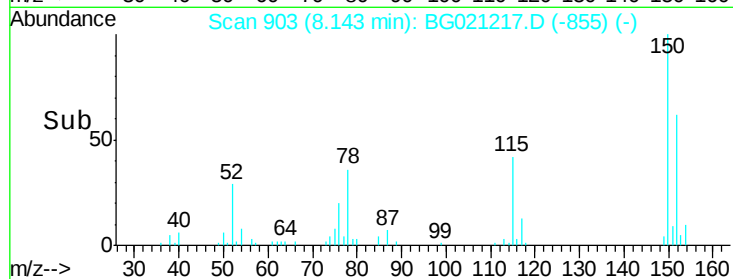
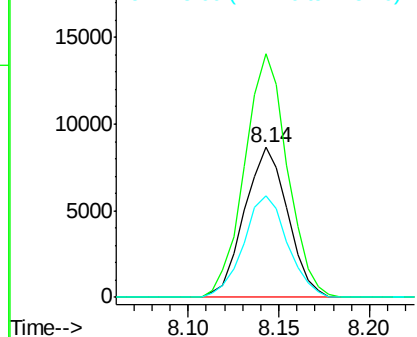
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 162.3 | 123.4 | 185.2 |
| 115     | 67.5  | 43.3  | 64.9  |

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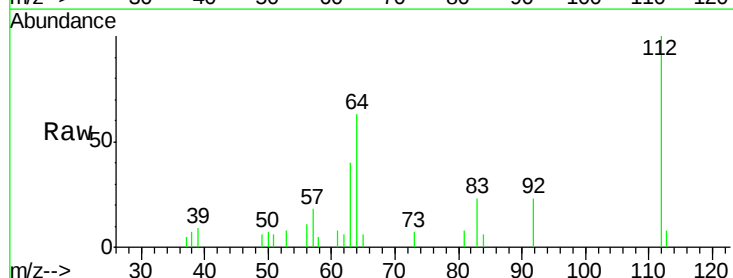
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



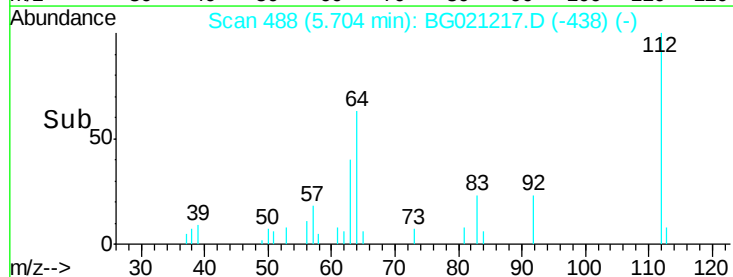
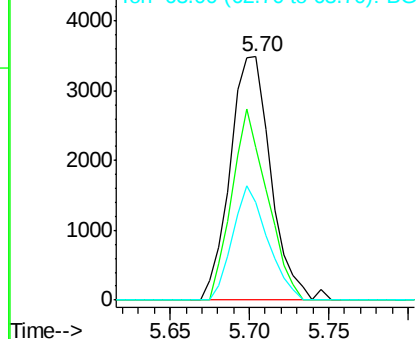
#5

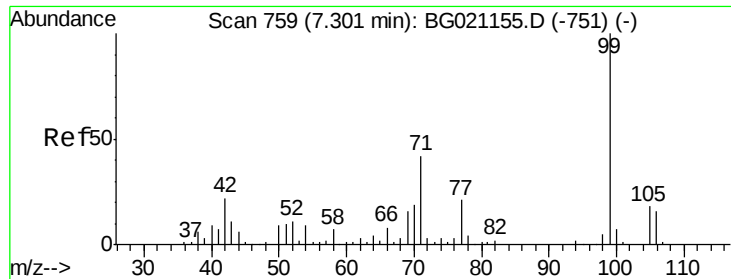
2-Fluorophenol  
Concen: 6.86 ng  
RT: 5.70 min Scan# 488  
Delta R.T. -0.00 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.6  | 42.6  | 63.8  |
| 63      | 39.9  | 21.7  | 32.5  |



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: 6.95 ng

RT: 7.30 min Scan# 759

Delta R.T. -0.00 min

Lab File: BG021217.D

Acq: 2 Mar 2016 17:43

Instrument :

BNA\_G

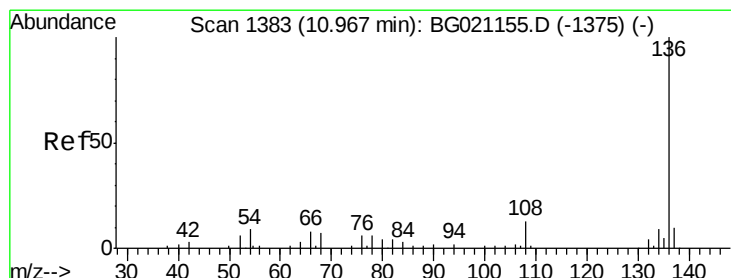
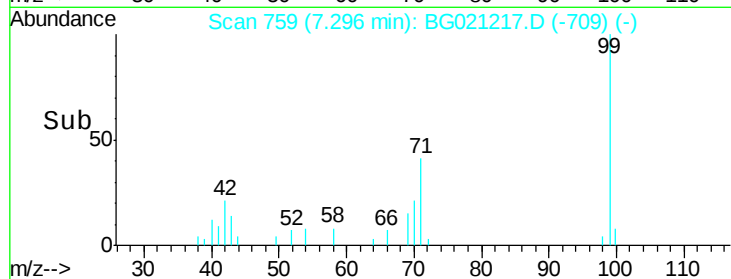
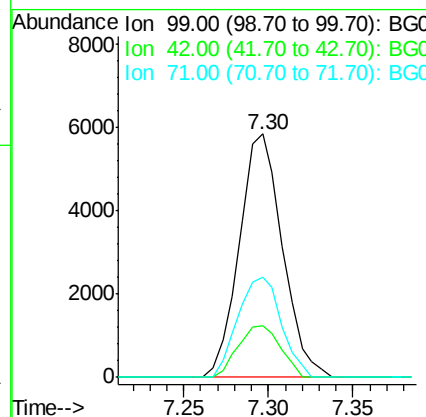
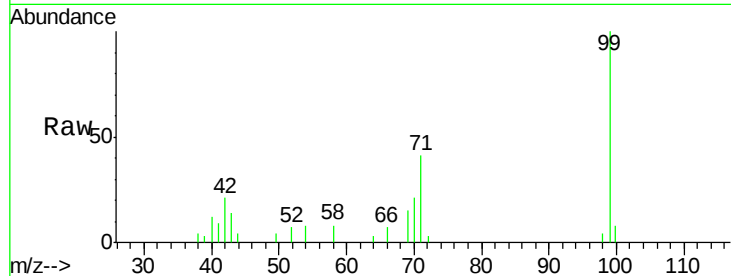
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 10364 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 21.2  | 13.2  | 19.8# |
| 71        | 41.3  | 25.2  | 37.8# |

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#21

Naphthalene-d8

Concen: 20.00 ng

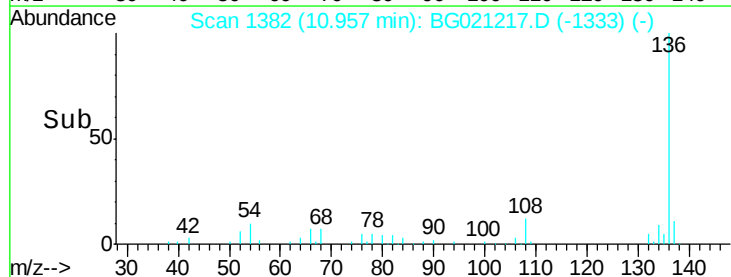
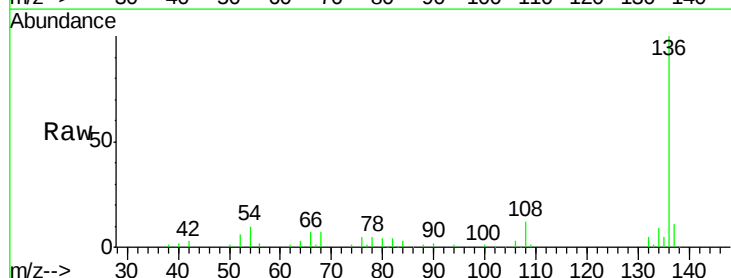
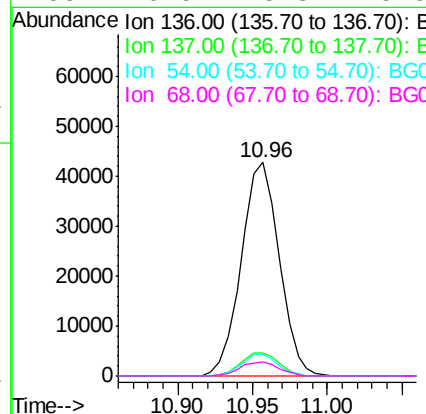
RT: 10.96 min Scan# 1382

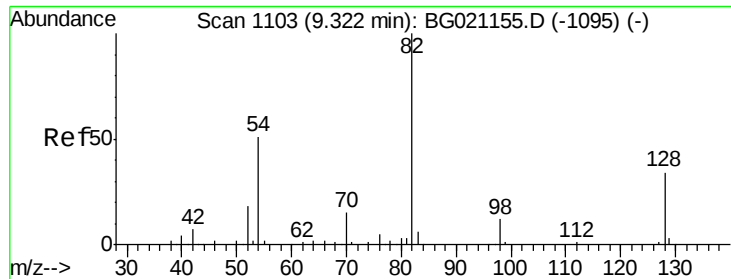
Delta R.T. -0.01 min

Lab File: BG021217.D

Acq: 2 Mar 2016 17:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 75382 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.1  | 8.8   | 13.2  |
| 54        | 9.9   | 6.9   | 10.3  |
| 68        | 6.5   | 5.8   | 8.6   |





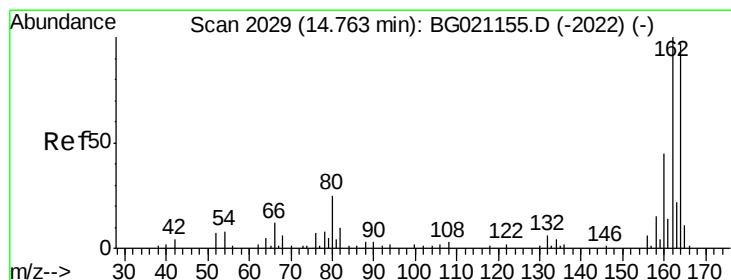
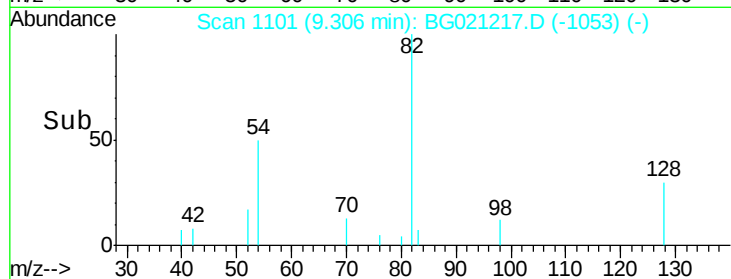
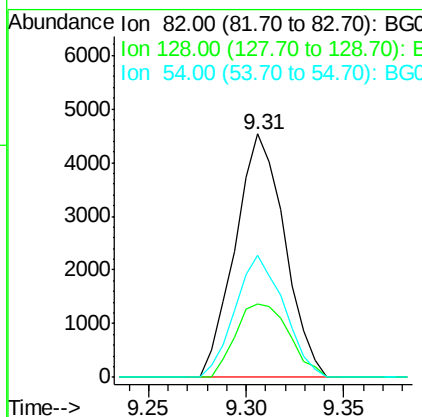
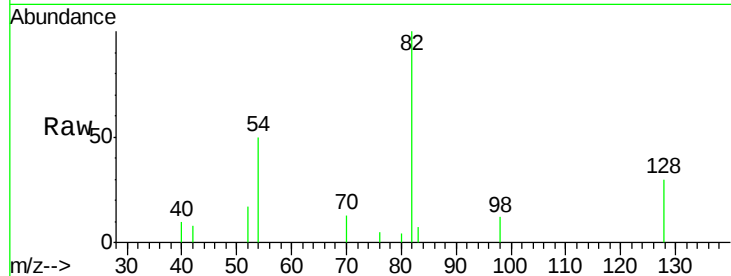
#23  
Nitrobenzene-d5  
Concen: 4.46 ng  
RT: 9.31 min Scan# 1101  
Delta R.T. -0.02 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

Instrument :  
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ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 30.2  | 36.3  | 54.5# |
| 54      | 50.0  | 37.6  | 56.4  |

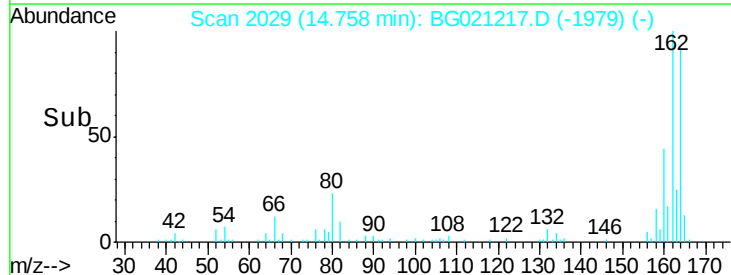
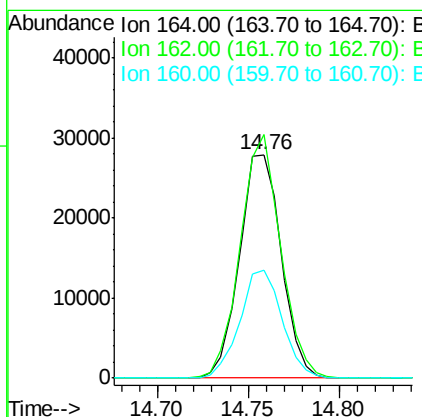
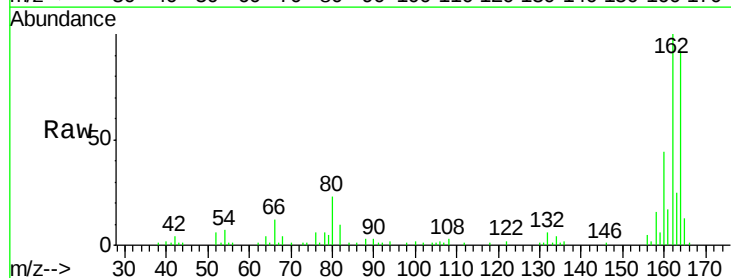
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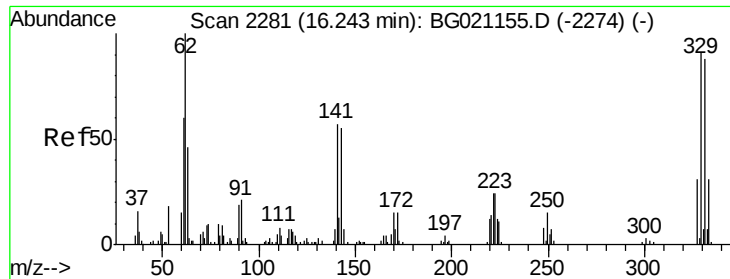
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.76 min Scan# 2029  
Delta R.T. -0.00 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 108.9 | 80.6  | 120.8 |
| 160     | 48.2  | 36.5  | 54.7  |





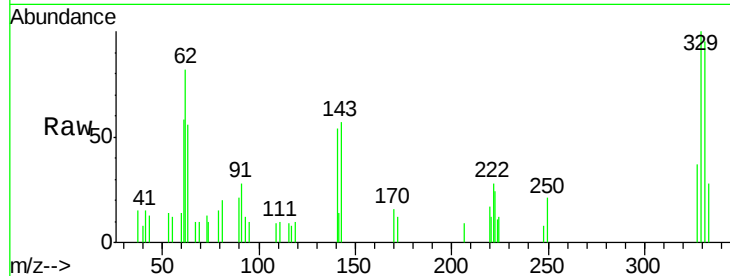
#41  
 2,4,6-Tribromophenol  
 Concen: 5.82 ng  
 RT: 16.24 min Scan# 2281  
 Delta R.T. -0.00 min  
 Lab File: BG021217.D  
 Acq: 2 Mar 2016 17:43

Instrument :  
 BNA\_G  
 ClientSampled :  
 P-09RE

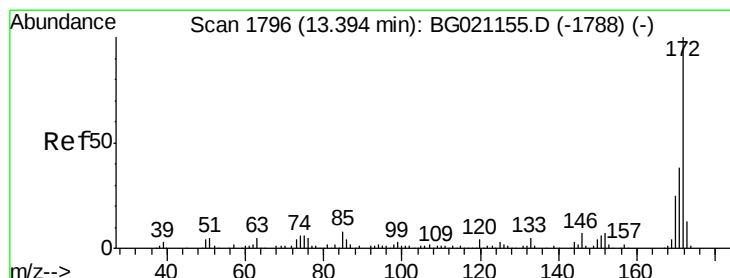
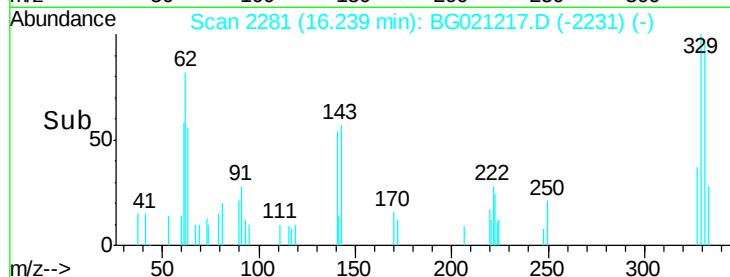
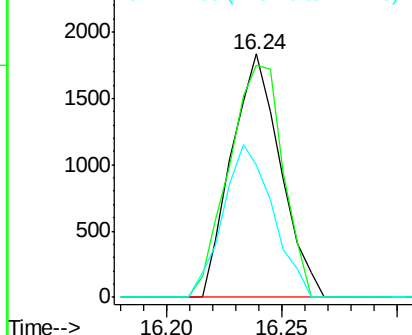
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 105.2 | 77.4  | 116.0 |
| 141     | 63.7  | 35.3  | 52.9# |

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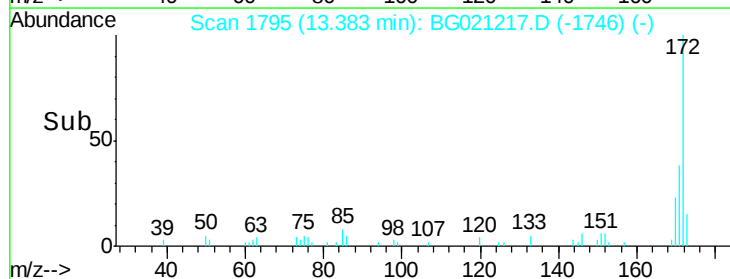
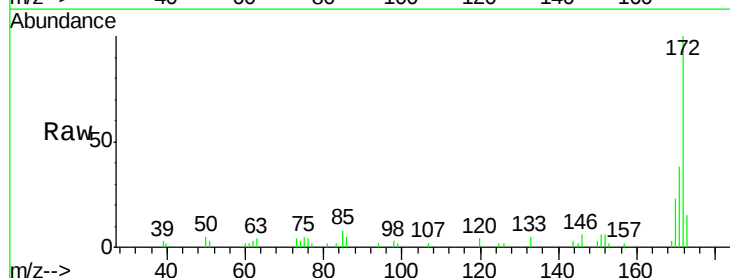
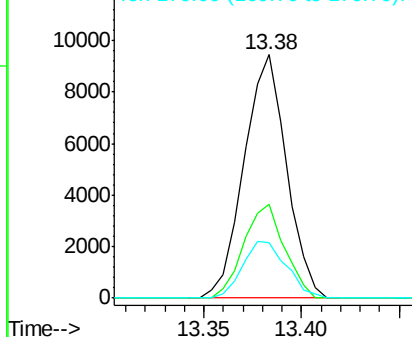
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

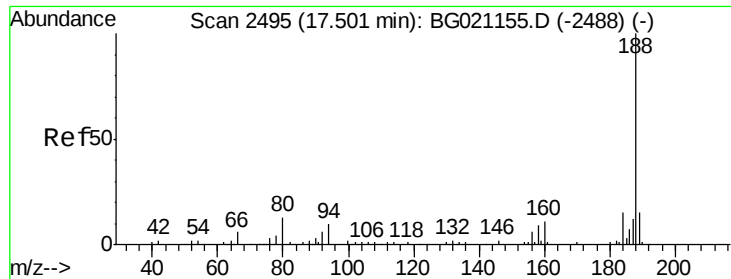


#44  
 2-Fluorobiphenyl  
 Concen: 4.51 ng  
 RT: 13.38 min Scan# 1795  
 Delta R.T. -0.01 min  
 Lab File: BG021217.D  
 Acq: 2 Mar 2016 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.3  | 29.4  | 44.0  |
| 170     | 22.9  | 19.8  | 29.8  |

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





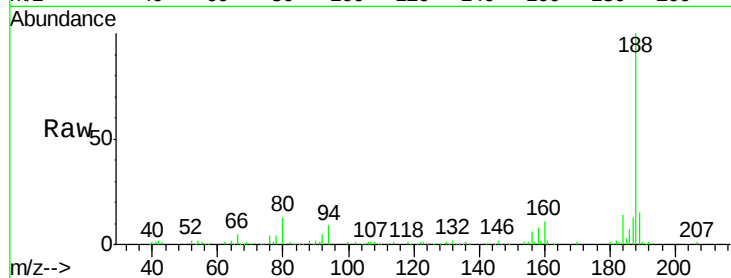
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.50 min Scan# 2495  
Delta R.T. -0.00 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

Instrument :  
BNA\_G  
ClientSampleId :  
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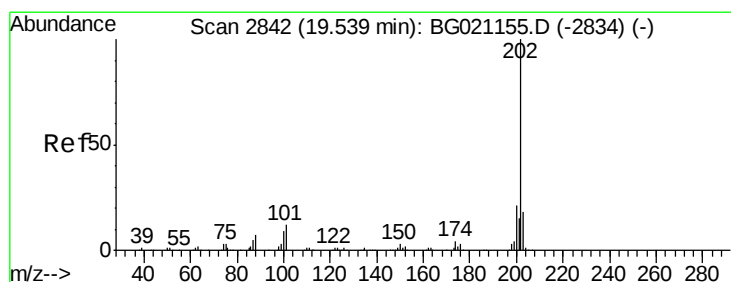
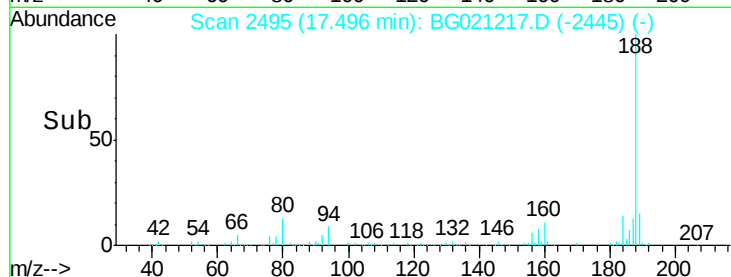
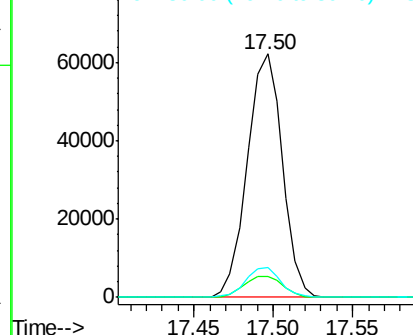
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.8   | 8.2        | 12.4  |
| 80      | 12.5  | 9.2        | 13.8  |

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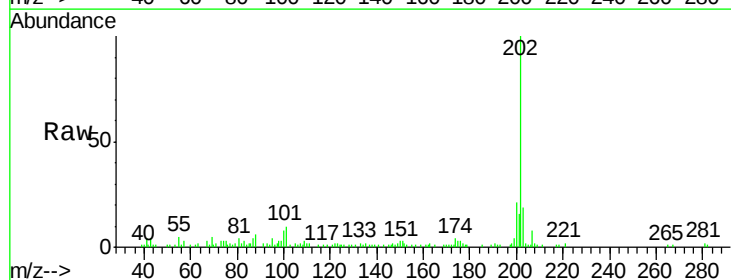


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGO  
Ion 80.00 (79.70 to 80.70): BGO

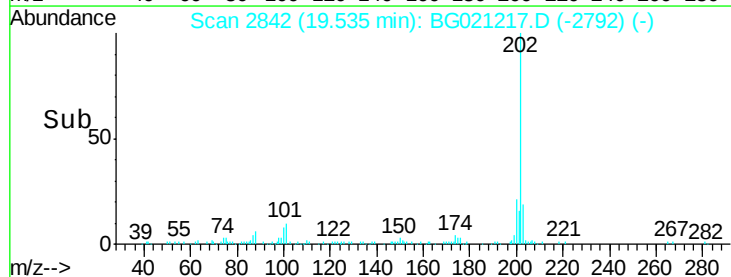
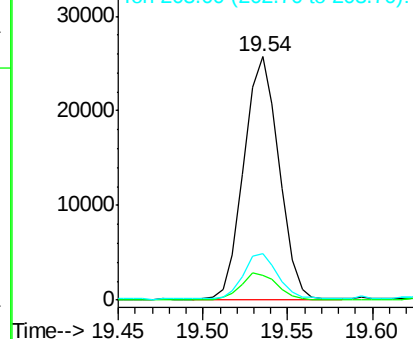


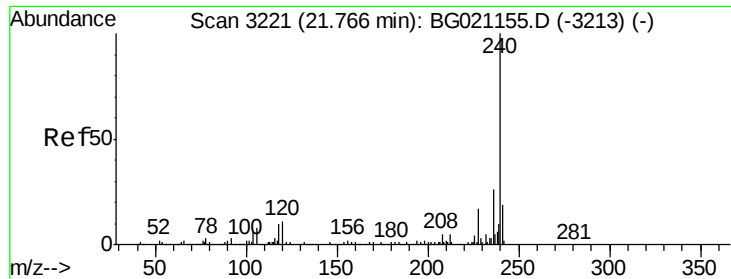
#74  
Fluoranthene  
Concen: 6.20 ng  
RT: 19.54 min Scan# 2842  
Delta R.T. -0.00 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.2  | 0.0        | 32.5  |
| 203     | 19.2  | 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: 21.76 min Scan# 3221

Delta R.T. -0.00 min

Lab File: BG021217.D

Acq: 2 Mar 2016 17:43

Instrument :

BNA\_G

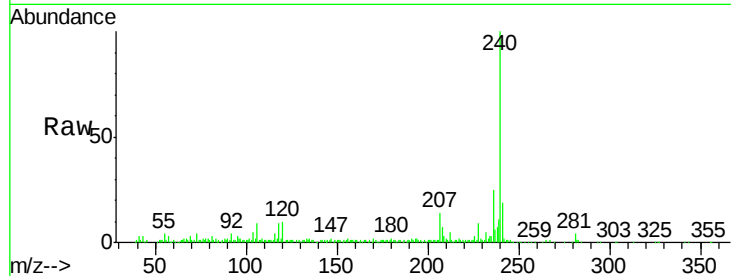
ClientSampleId :

P-09RE

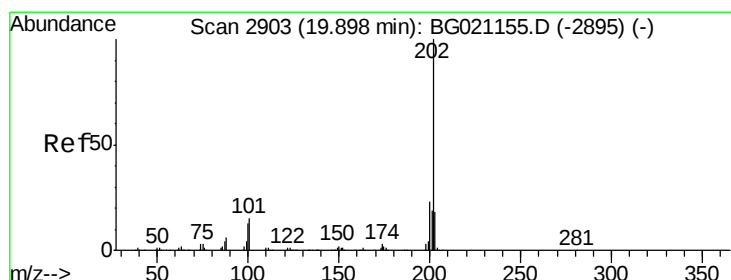
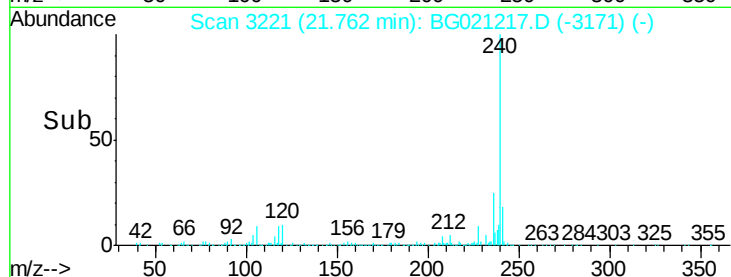
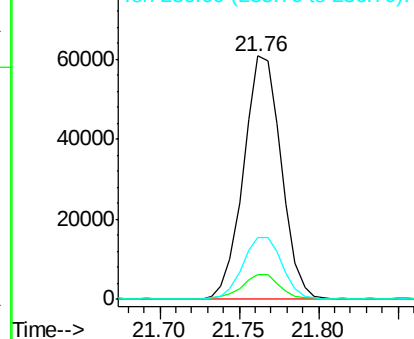
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 100537 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.0  | 7.5   | 11.3   |
| 236       | 25.3  | 20.5  | 30.7   |

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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: 6.54 ng

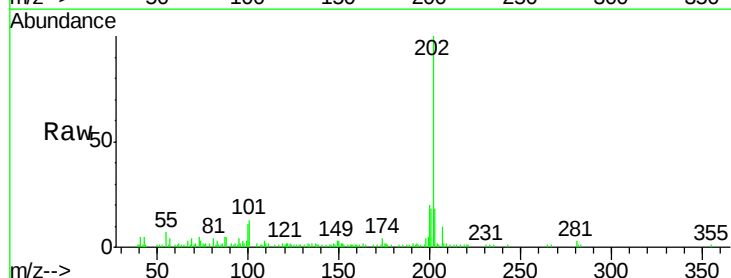
RT: 19.89 min Scan# 2903

Delta R.T. -0.00 min

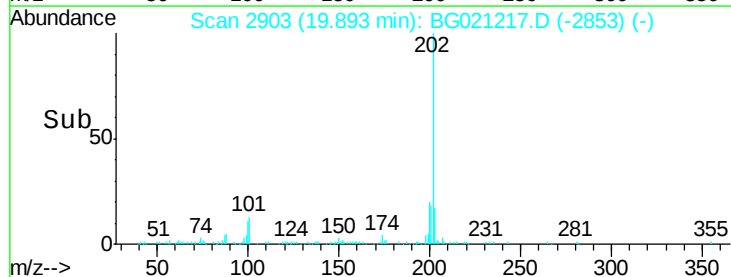
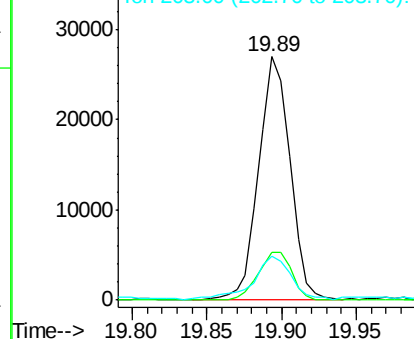
Lab File: BG021217.D

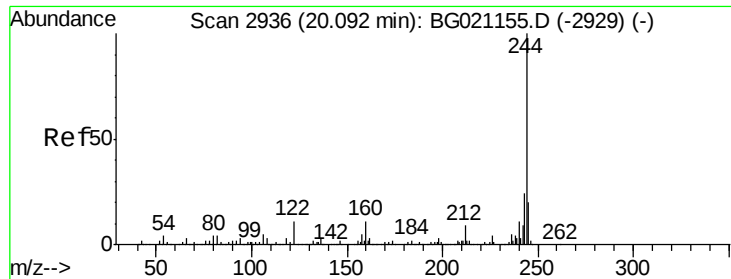
Acq: 2 Mar 2016 17:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 39202 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 19.6  | 16.6  | 25.0  |
| 203       | 18.2  | 13.8  | 20.8  |



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: 4.48 ng

RT: 20.09 min Scan# 2936

Delta R.T. -0.00 min

Lab File: BG021217.D

Acq: 2 Mar 2016 17:43

Instrument :

BNA\_G

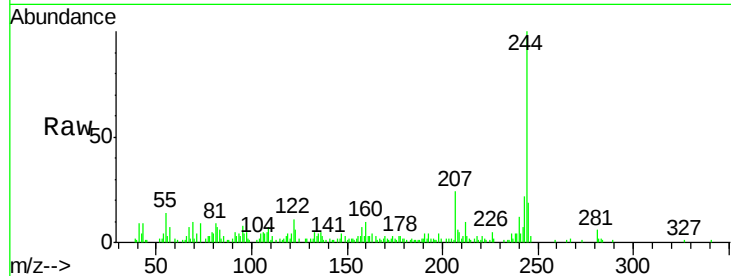
ClientSampleId :

P-09RE

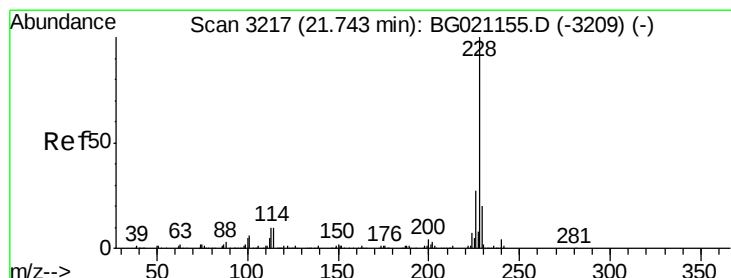
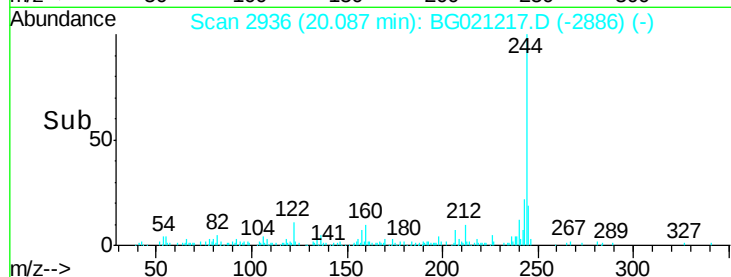
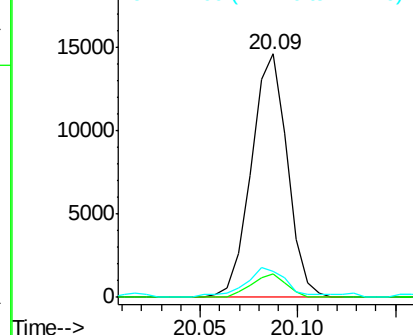
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 18580 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 9.8   | 5.8   | 8.6#  |
| 122       | 10.6  | 8.3   | 12.5  |

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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



#80

Benzo(a)anthracene

Concen: 4.97 ng

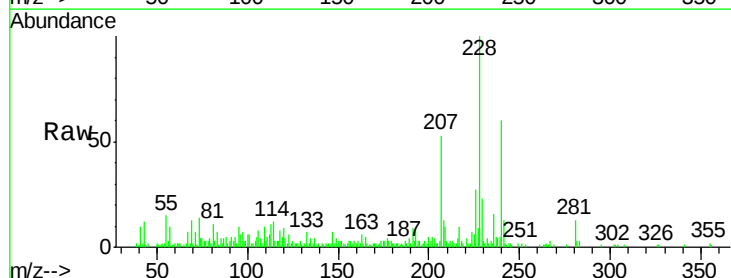
RT: 21.74 min Scan# 3218

Delta R.T. 0.00 min

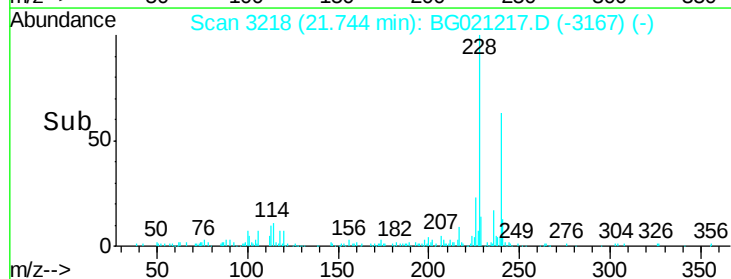
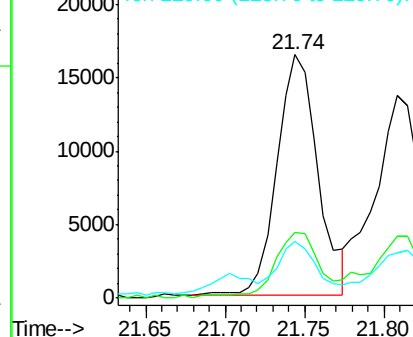
Lab File: BG021217.D

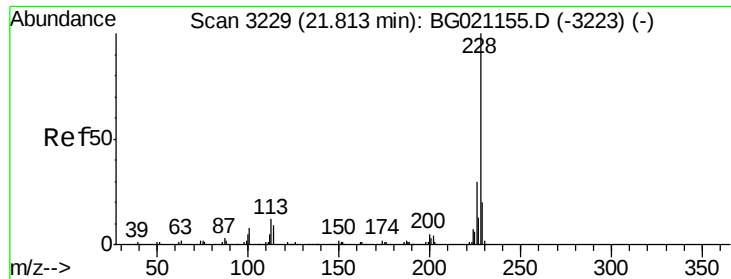
Acq: 2 Mar 2016 17:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 29565 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 26.9  | 22.7  | 34.1  |
| 229       | 23.1  | 15.5  | 23.3  |



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





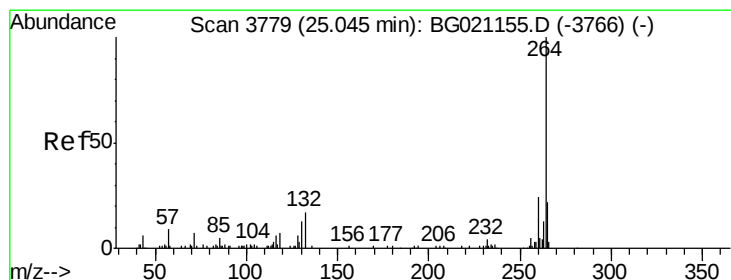
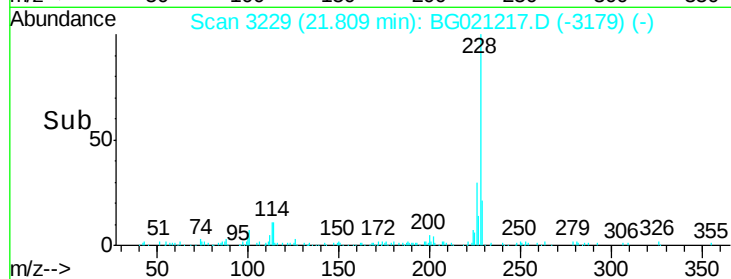
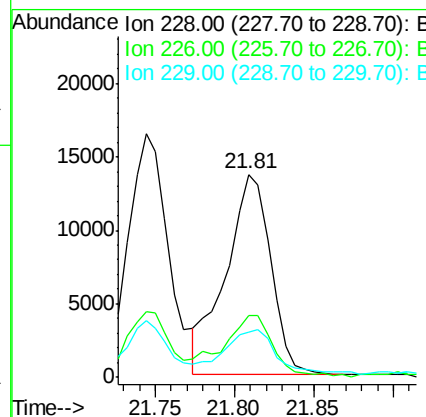
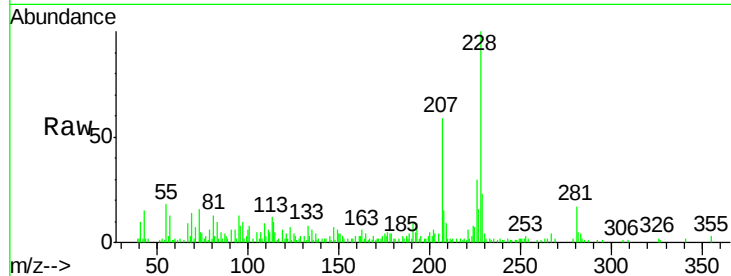
#82  
Chrysene  
Concen: 4.80 ng  
RT: 21.81 min Scan# 3229  
Delta R.T. -0.00 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

Instrument :  
BNA\_G  
ClientSampleId :  
P-09RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 23.7  | 35.5  |
| 229     | 22.5  | 16.7  | 25.1  |

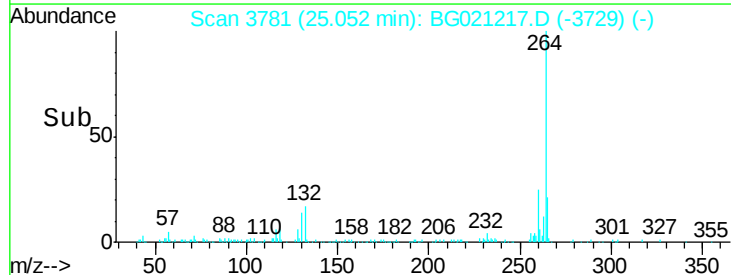
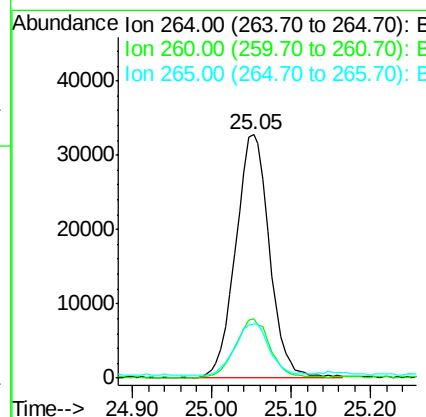
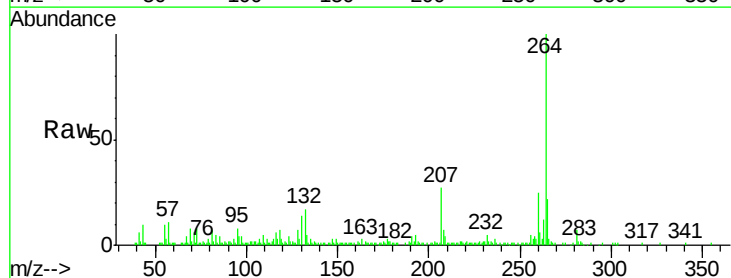
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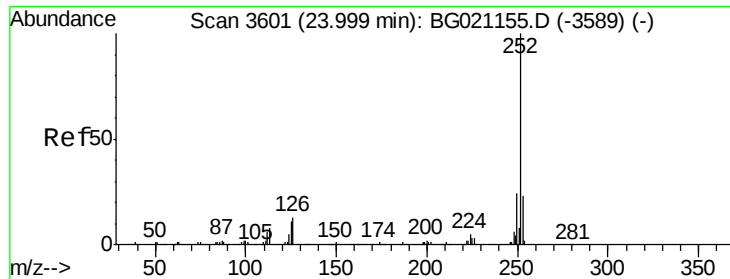
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.05 min Scan# 3781  
Delta R.T. 0.01 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 18.5  | 27.7  |
| 265     | 22.0  | 18.6  | 28.0  |





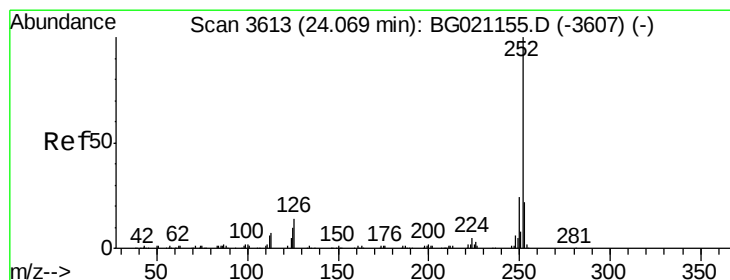
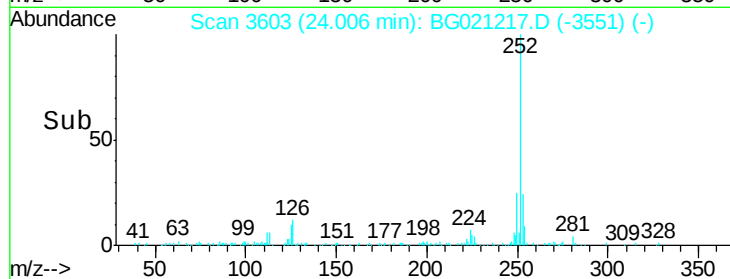
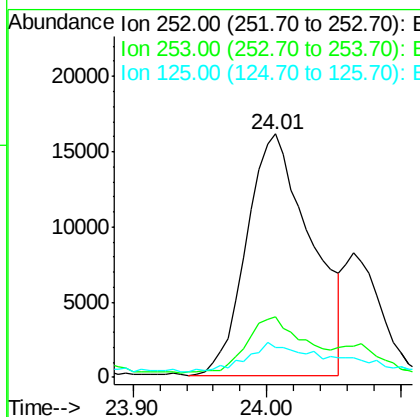
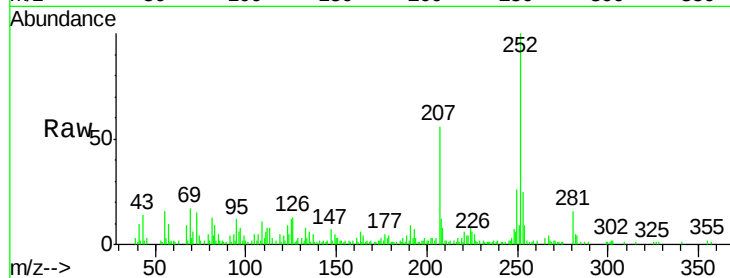
#87  
Benzo(b)fluoranthene  
Concen: 8.75 ng  
RT: 24.01 min Scan# 3603  
Delta R.T. 0.01 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

Instrument :  
BNA\_G  
ClientSampleId :  
P-09RE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 25.0  | 16.8       | 25.2  |
| 125     | 12.4  | 8.2        | 12.2# |

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#88  
Benzo(k)fluoranthene  
Concen: 2.16 ng m  
RT: 24.07 min Scan# 3613  
Delta R.T. -0.00 min  
Lab File: BG021217.D  
Acq: 2 Mar 2016 17:43

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 25.2  | 16.4       | 24.6# |
| 125     | 16.0  | 8.2        | 12.2# |

