

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\  
 Data File : BG021207.D  
 Acq On : 2 Mar 2016 6:20  
 Operator : UM/SJ  
 Sample : H1557-01RE 10X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-09RE

Manual Integrations  
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Sohil  
 3/2/2016 9:52:28 AM

Quant Time: Mar 02 12:48:51 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 29 17:40:25 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.15  | 152  | 13943    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.96 | 136  | 66559    | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.76 | 164  | 36227    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.49 | 188  | 74943    | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.76 | 240  | 81478    | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 25.04 | 264  | 61186    | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.71  | 112  | 5883     | 6.71  | ng    | 0.00     |
| 7) Phenol-d6                | 7.29  | 99   | 9384     | 6.51  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.31  | 82   | 7237     | 4.60  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.23 | 330  | 2372     | 6.29  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 11896    | 4.66  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.08 | 244  | 15159    | 4.51  | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 74) Fluoranthene            | 19.53 | 202  | 30190    | 6.35  | ng    | 99       |
| 77) Pyrene                  | 19.89 | 202  | 30379    | 6.25  | ng    | 95       |
| 80) Benzo(a)anthracene      | 21.74 | 228  | 22338    | 4.63  | ng    | # 95     |
| 82) Chrysene                | 21.80 | 228  | 22455m   | 4.91  | ng    |          |
| 87) Benzo(b)fluoranthene    | 24.00 | 252  | 34766    | 9.03  | ng    | # 89     |
| 88) Benzo(k)fluoranthene    | 24.05 | 252  | 14376m   | 3.73  | ng    |          |

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

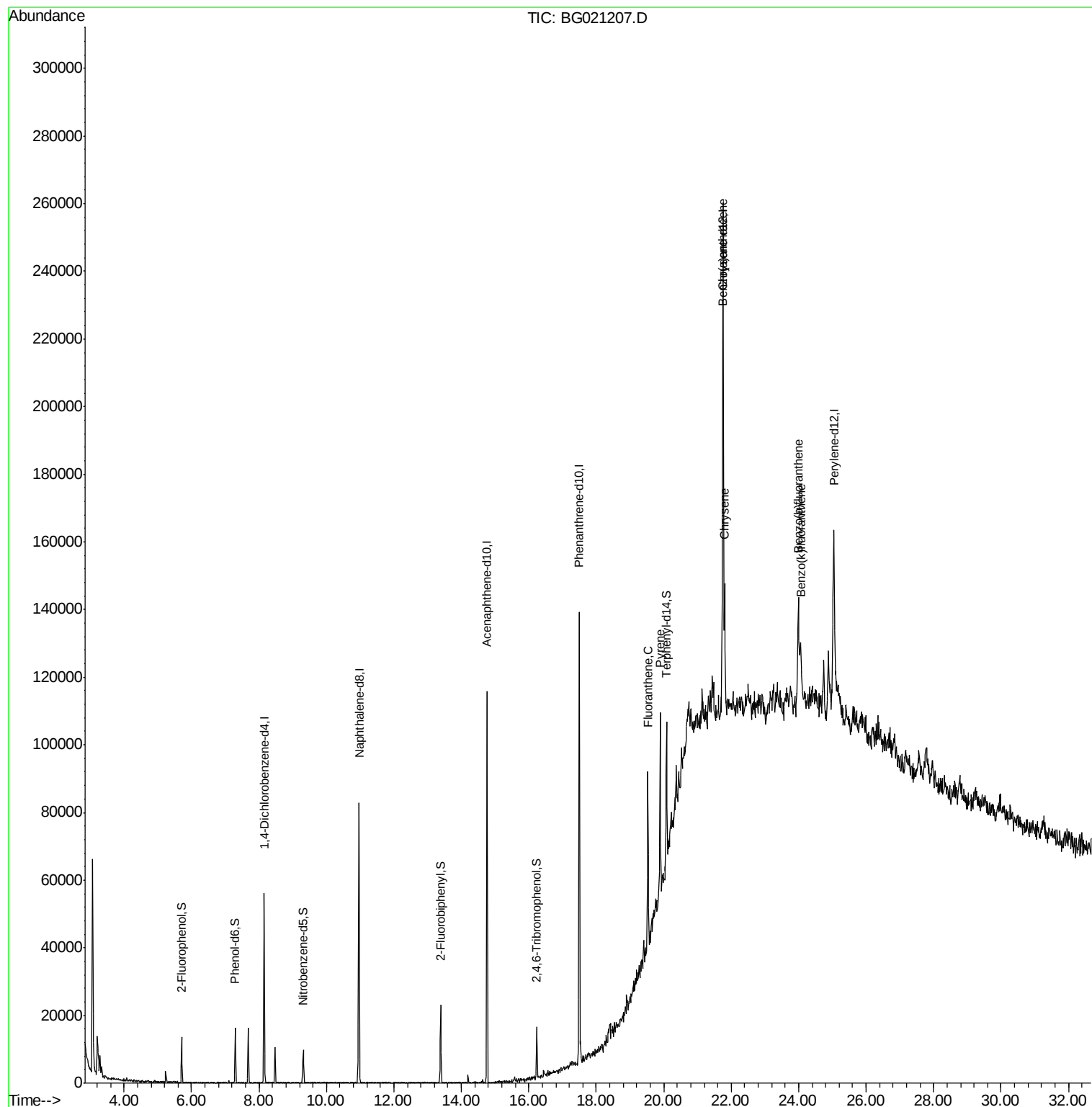
Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\  
Data File : BG021207.D  
Acq On : 2 Mar 2016 6:20  
Operator : UM/SJ  
Sample : H1557-01RE 10X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

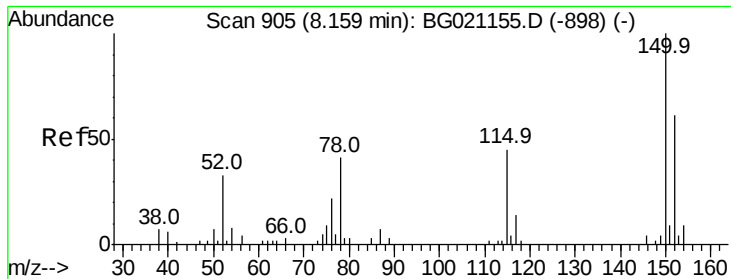
Instrument :  
BNA\_G  
ClientSampleId :  
P-09RE

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Quant Time: Mar 02 12:48:51 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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#1

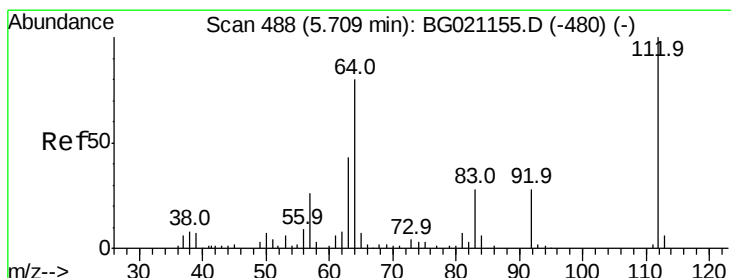
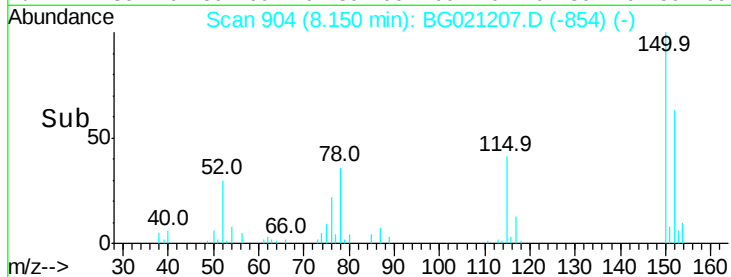
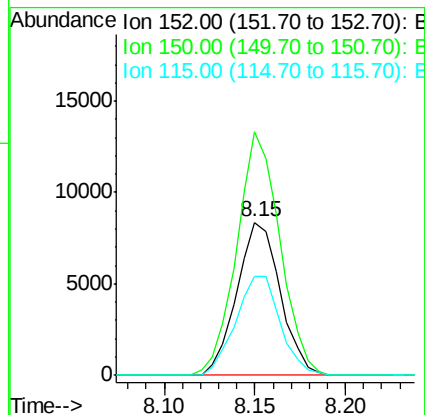
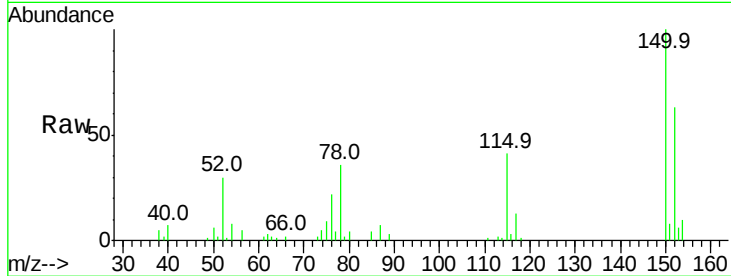
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.15 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BG021207.D  
Acq: 2 Mar 2016 6:20

Instrument :  
BNA\_G  
ClientSampleId :  
P-09RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.9 | 123.4 | 185.2 |
| 115     | 64.4  | 43.3  | 64.9  |

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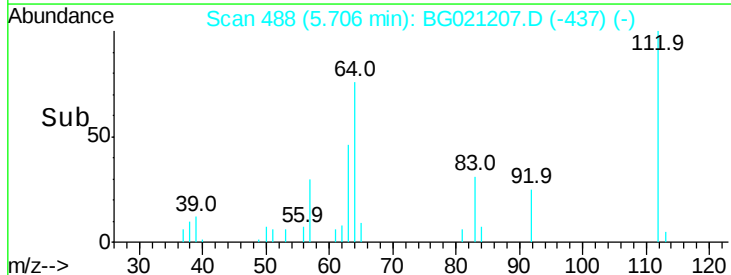
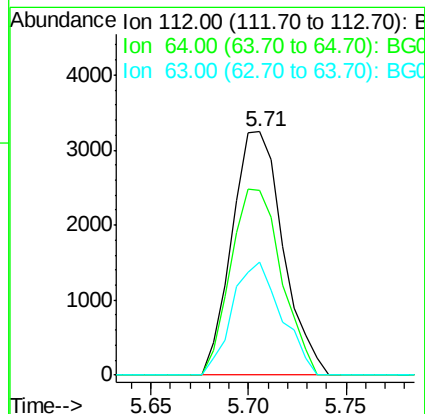
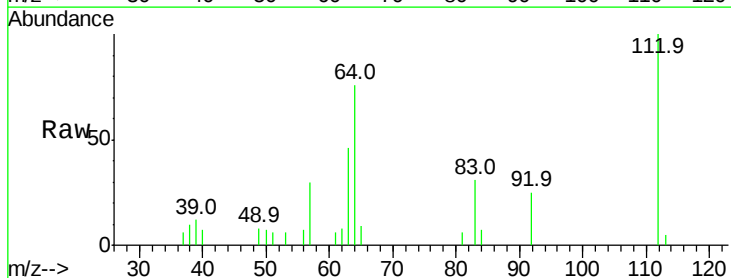
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#5

2-Fluorophenol  
Concen: 6.71 ng  
RT: 5.71 min Scan# 488  
Delta R.T. -0.00 min  
Lab File: BG021207.D  
Acq: 2 Mar 2016 6:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 76.1  | 42.6  | 63.8# |
| 63      | 46.2  | 21.7  | 32.5# |





#7

Phenol-d6

Concen: 6.51 ng

RT: 7.29 min Scan# 758

Delta R.T. -0.01 min

Lab File: BG021207.D

Acq: 2 Mar 2016 6:20

Instrument :

BNA\_G

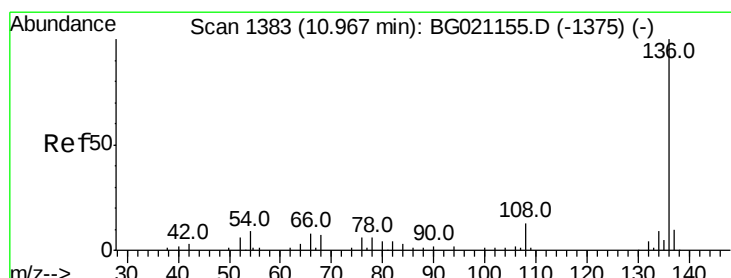
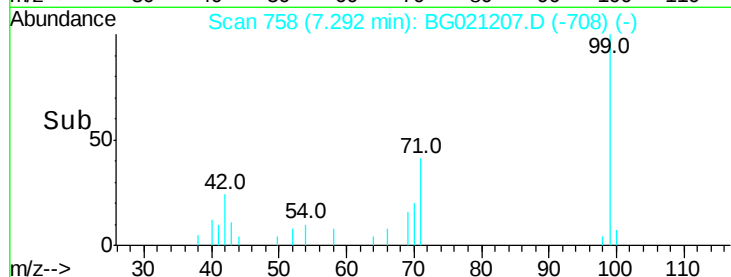
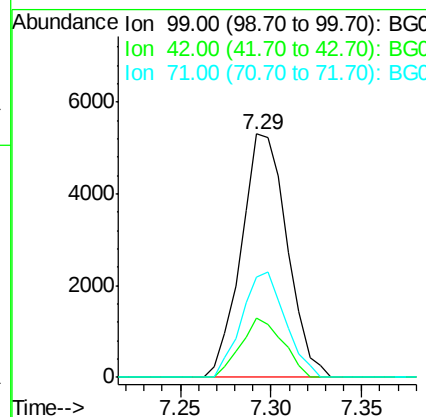
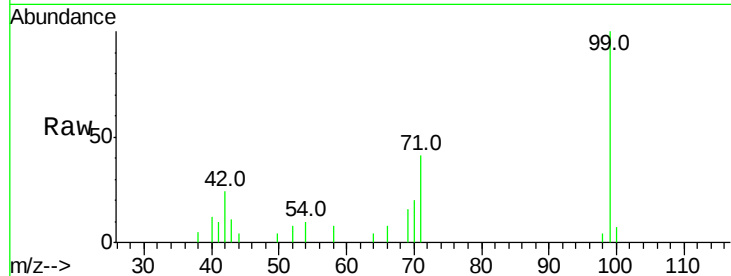
ClientSampled :

P-09RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 9384  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 24.2  | 13.2  | 19.8# |
| 71        | 41.4  | 25.2  | 37.8# |

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#21

Naphthalene-d8

Concen: 20.00 ng

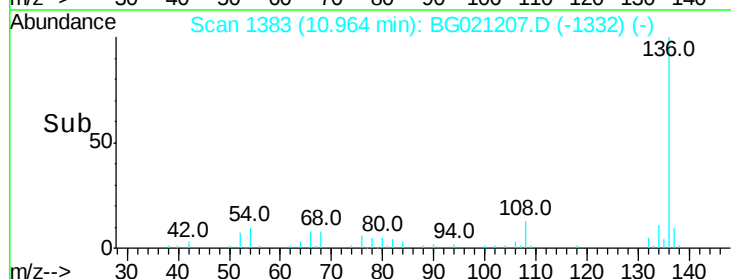
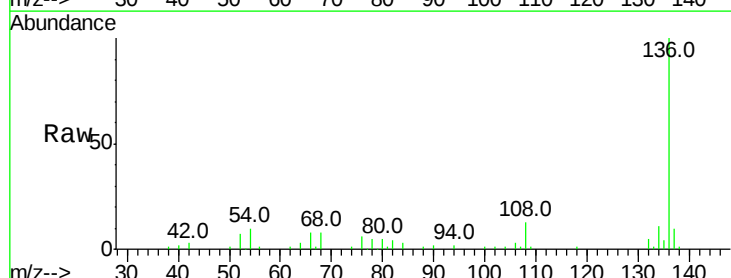
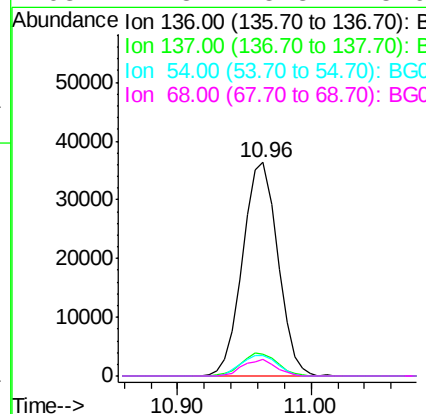
RT: 10.96 min Scan# 1383

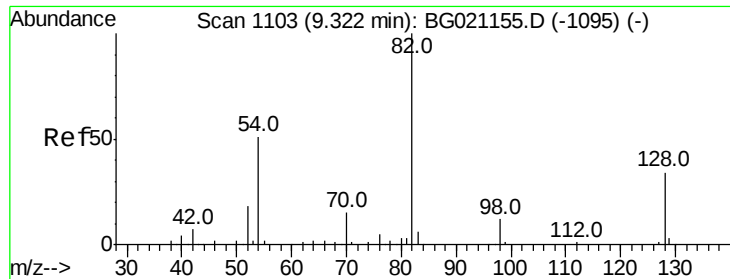
Delta R.T. -0.00 min

Lab File: BG021207.D

Acq: 2 Mar 2016 6:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 66559 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 10.5  | 8.8   | 13.2  |
| 54        | 9.8   | 6.9   | 10.3  |
| 68        | 7.8   | 5.8   | 8.6   |





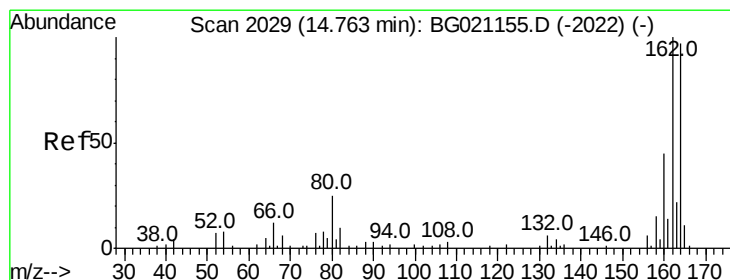
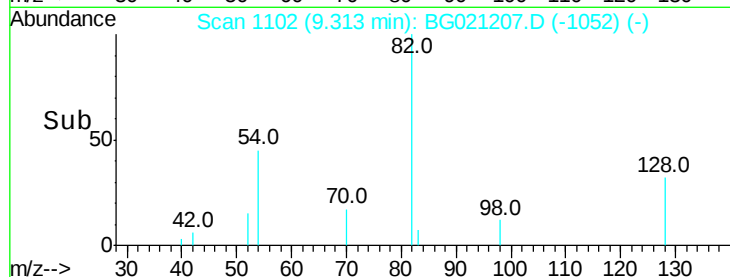
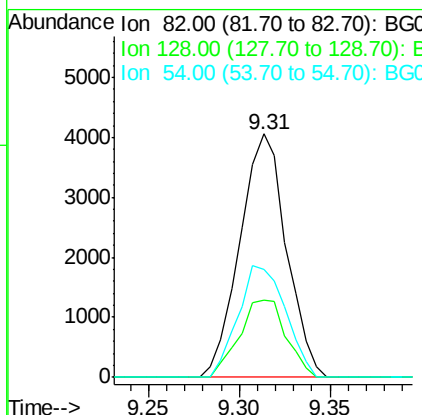
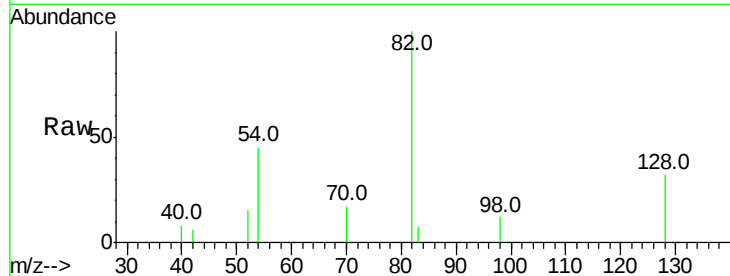
#23  
 Nitrobenzene-d5  
 Concen: 4.60 ng  
 RT: 9.31 min Scan# 1102  
 Delta R.T. -0.01 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-09RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 31.8  | 36.3  | 54.5# |
| 54      | 44.5  | 37.6  | 56.4  |

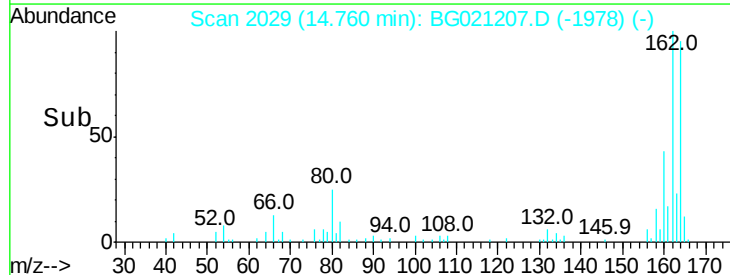
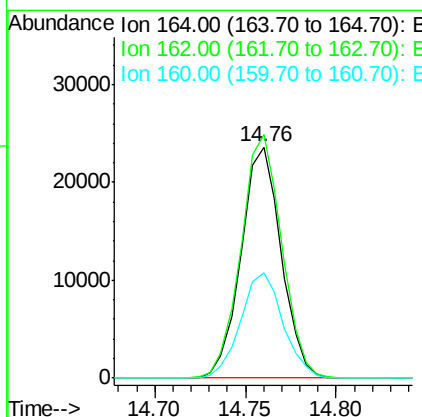
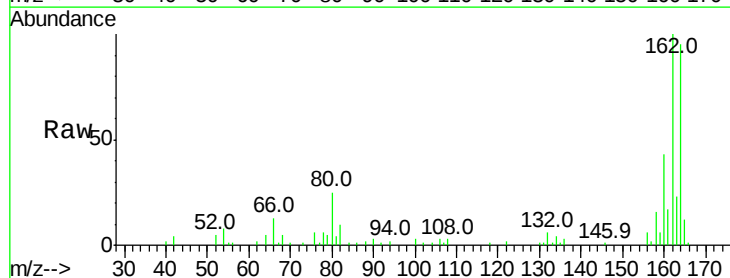
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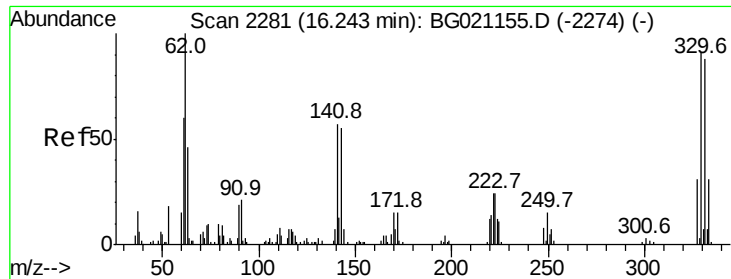
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.76 min Scan# 2029  
 Delta R.T. -0.00 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.3 | 80.6  | 120.8 |
| 160     | 45.5  | 36.5  | 54.7  |





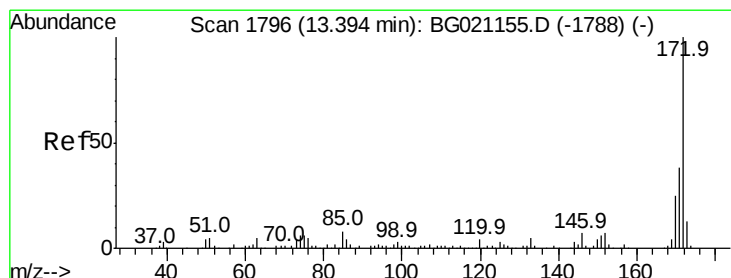
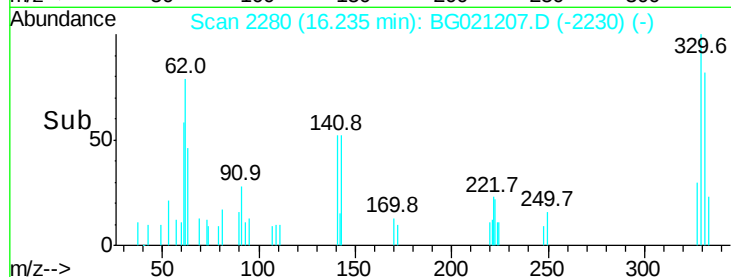
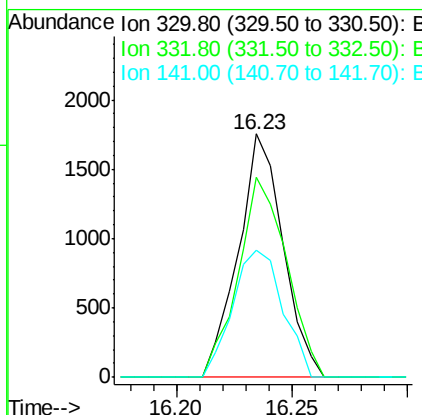
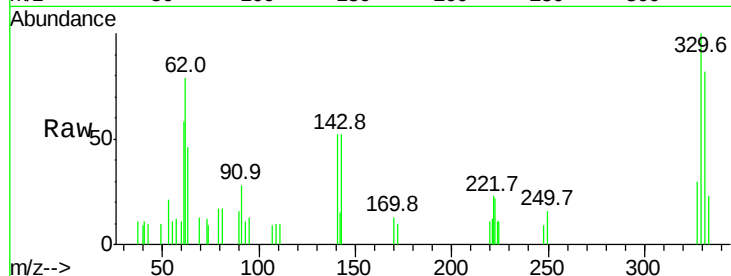
#41  
 2,4,6-Tribromophenol  
 Concen: 6.29 ng  
 RT: 16.23 min Scan# 2280  
 Delta R.T. -0.01 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

Instrument :  
 BNA\_G  
 ClientSampled :  
 P-09RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 88.5  | 77.4  | 116.0 |
| 141     | 58.3  | 35.3  | 52.9# |

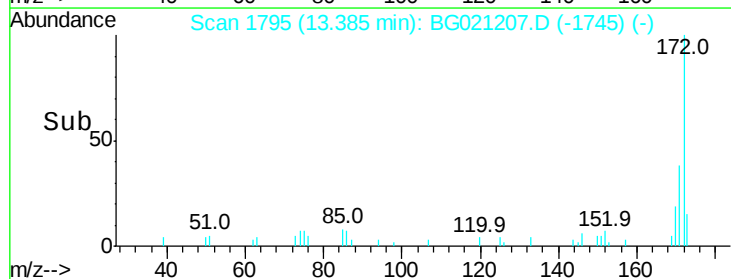
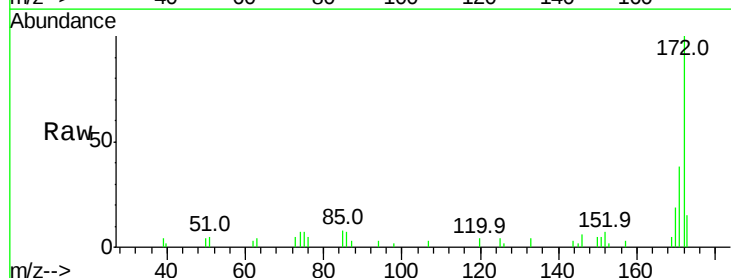
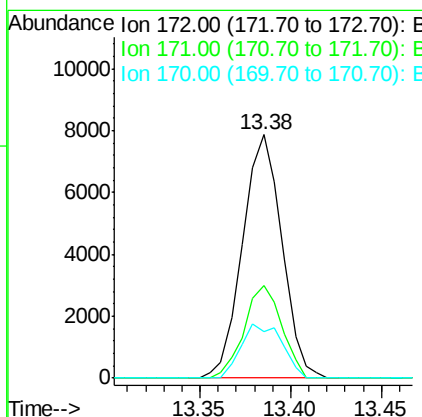
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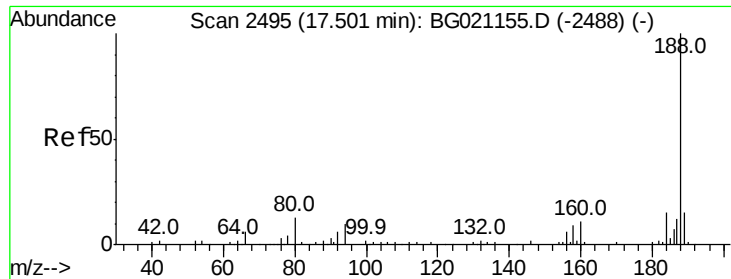
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#44  
 2-Fluorobiphenyl  
 Concen: 4.66 ng  
 RT: 13.38 min Scan# 1795  
 Delta R.T. -0.01 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.9  | 29.4  | 44.0  |
| 170     | 19.1  | 19.8  | 29.8# |





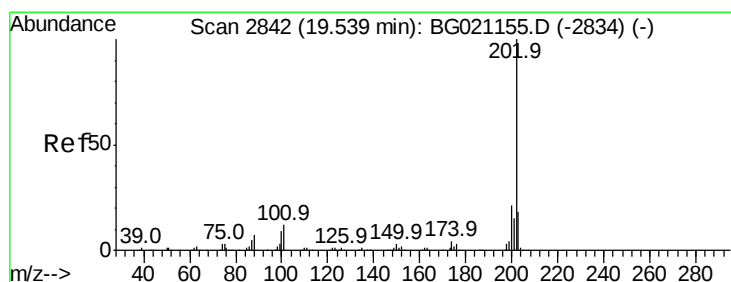
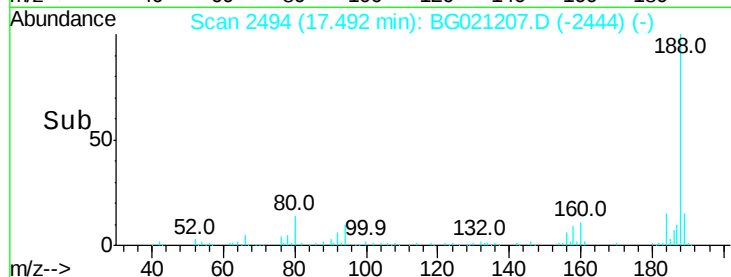
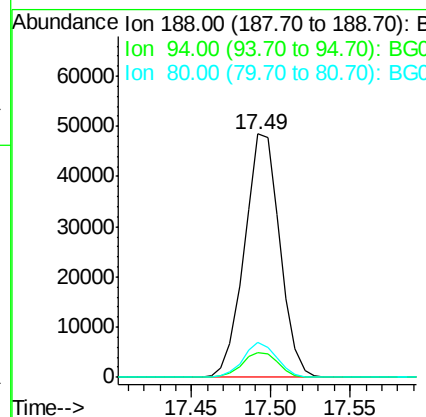
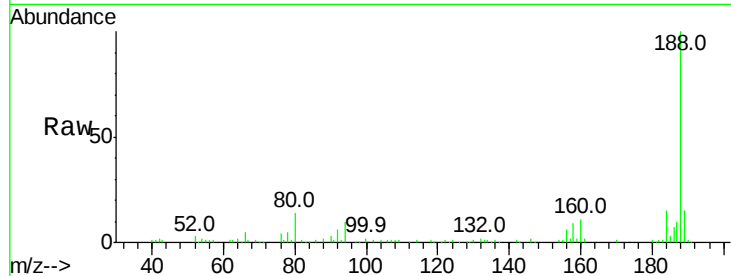
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.49 min Scan# 2494  
 Delta R.T. -0.01 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-09RE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.2  | 8.2        | 12.4  |
| 80      | 14.1  | 9.2        | 13.8  |

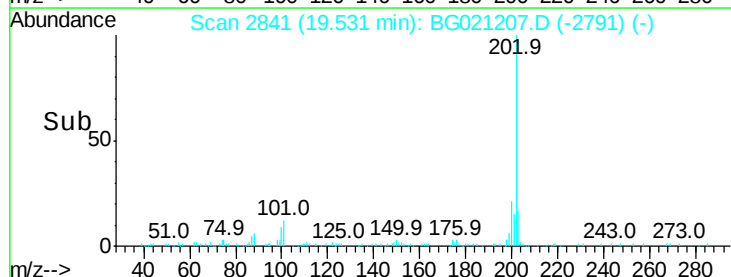
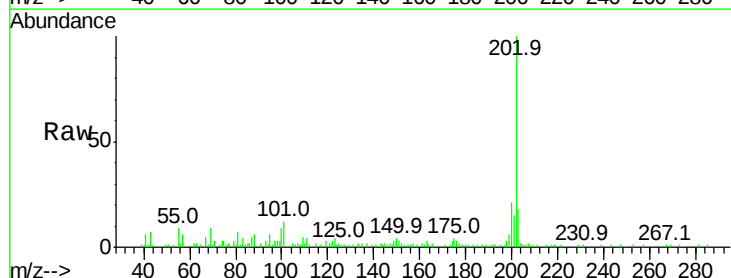
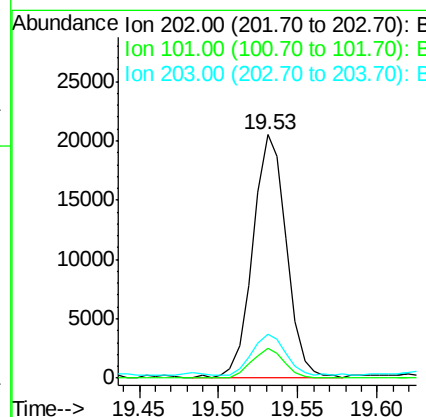
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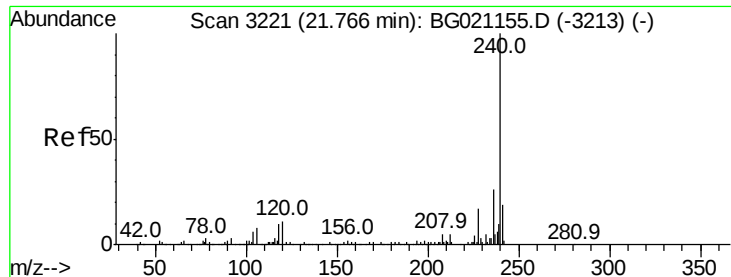
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#74  
 Fluoranthene  
 Concen: 6.35 ng  
 RT: 19.53 min Scan# 2841  
 Delta R.T. -0.01 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.0  | 0.0        | 32.5  |
| 203     | 18.2  | 0.0        | 37.6  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.76 min Scan# 3220

Delta R.T. -0.01 min

Lab File: BG021207.D

Acq: 2 Mar 2016 6:20

Instrument :

BNA\_G

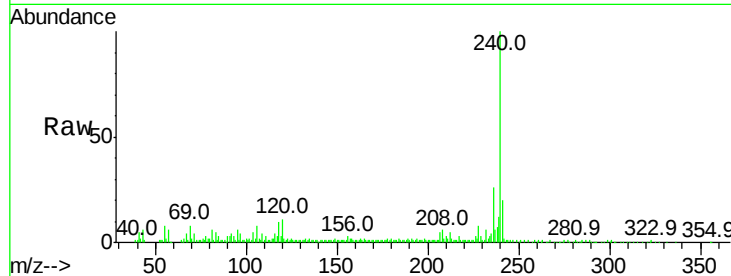
ClientSampleId :

P-09RE

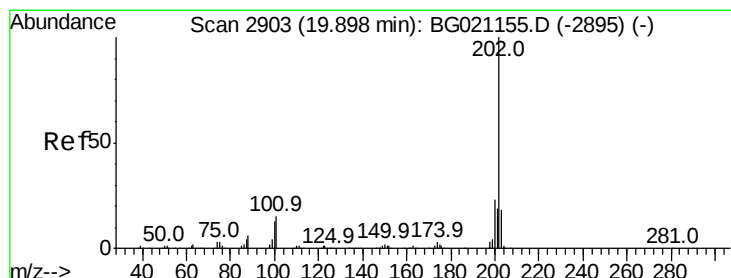
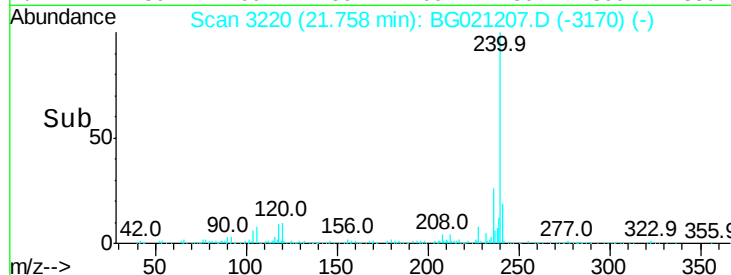
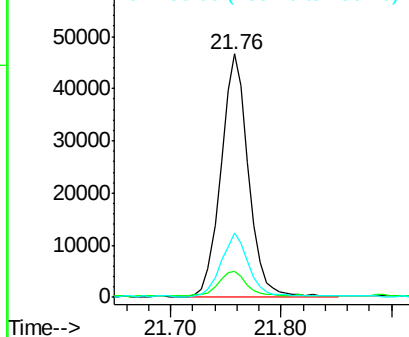
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 240   | Resp: | 81478 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 10.6  | 7.5   | 11.3  |
| 236       | 26.4  | 20.5  | 30.7  |

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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: 6.25 ng

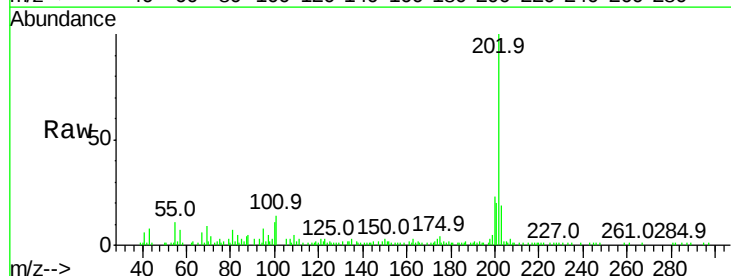
RT: 19.89 min Scan# 2903

Delta R.T. -0.00 min

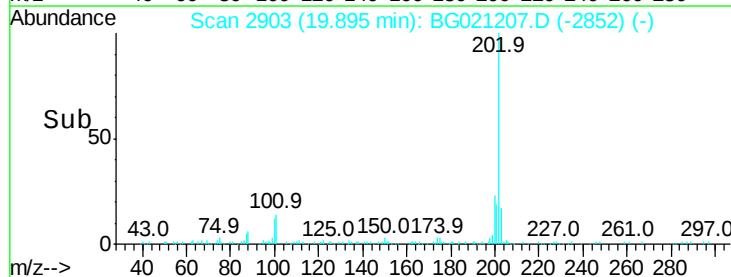
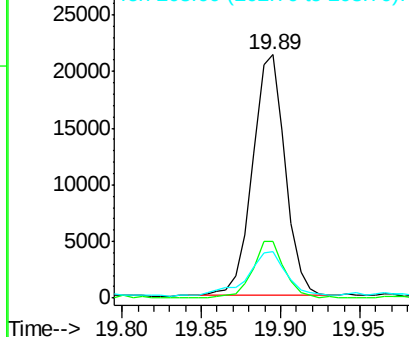
Lab File: BG021207.D

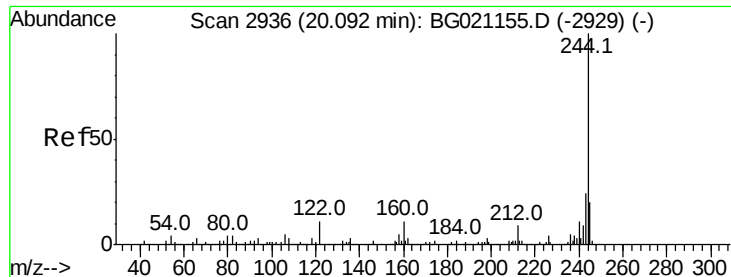
Acq: 2 Mar 2016 6:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 30379 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 23.1  | 16.6  | 25.0  |
| 203       | 19.2  | 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





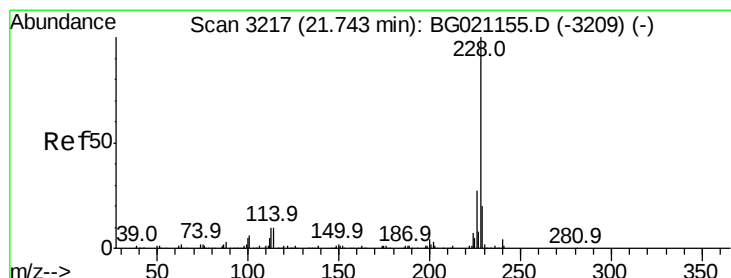
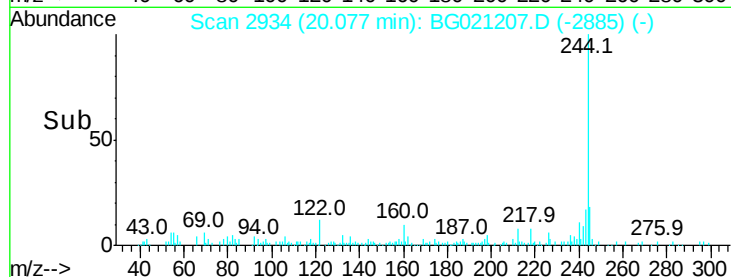
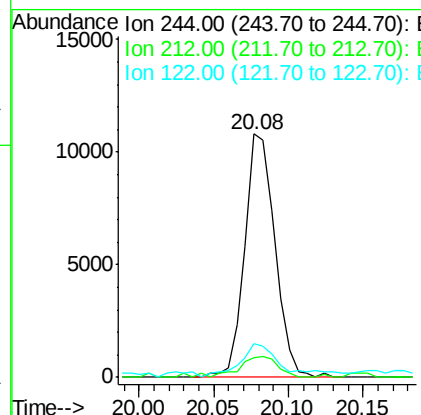
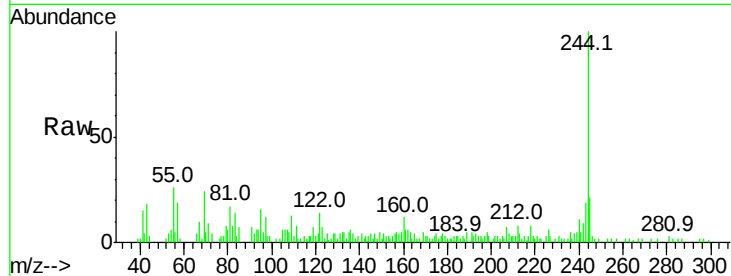
#78  
 Terphenyl-d14  
 Concen: 4.51 ng  
 RT: 20.08 min Scan# 2934  
 Delta R.T. -0.01 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

Instrument :  
 BNA\_G  
 ClientSampled :  
 P-09RE

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 8.3   | 5.8        | 8.6   |
| 122     | 13.9  | 8.3        | 12.5  |

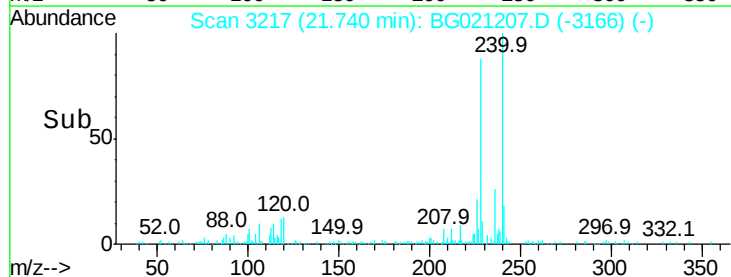
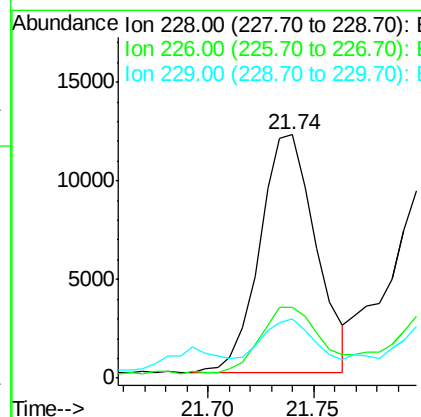
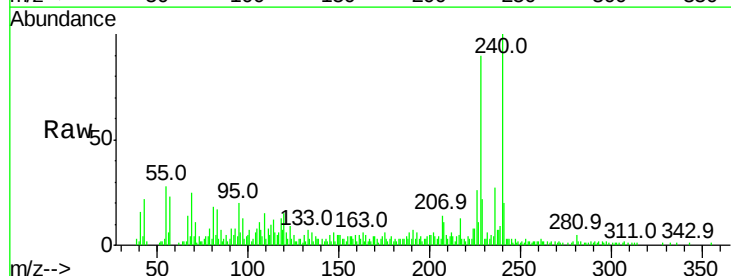
Manual Integrations  
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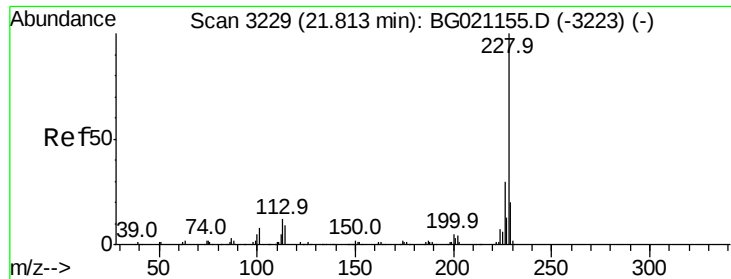
Sohil  
 3/2/2016 9:52:28 AM



#80  
 Benzo(a)anthracene  
 Concen: 4.63 ng  
 RT: 21.74 min Scan# 3217  
 Delta R.T. -0.00 min  
 Lab File: BG021207.D  
 Acq: 2 Mar 2016 6:20

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 29.0  | 22.7       | 34.1  |
| 229     | 24.1  | 15.5       | 23.3  |





#82

Chrysene

Concen: 4.91 ng/mL

RT: 21.80 min Scan# 3228

Delta R.T. -0.01 min

Lab File: BG021207.D

Acq: 2 Mar 2016 6:20

Instrument :

BNA\_G

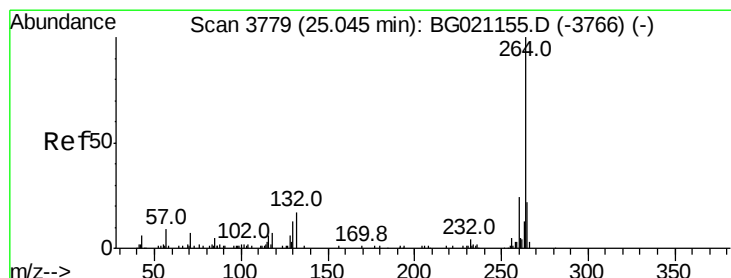
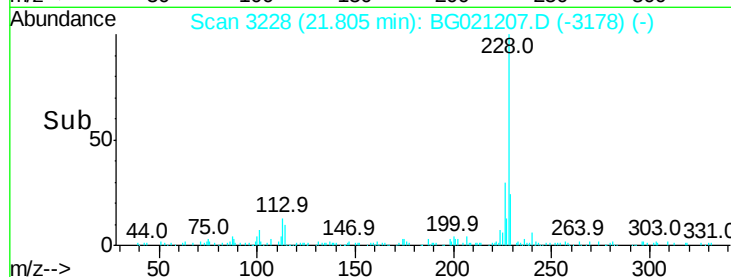
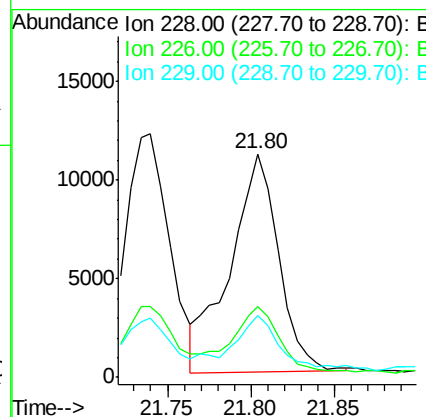
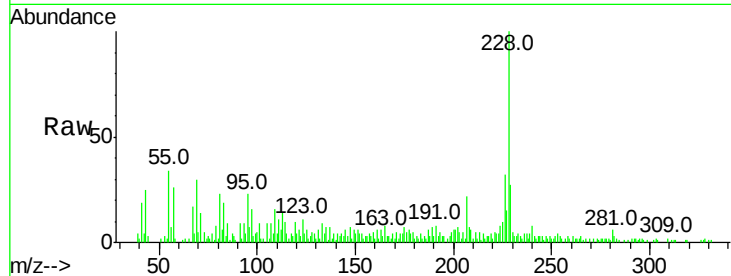
ClientSampleId :

P-09RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 22455 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.9  | 23.7  | 35.5  |
| 229       | 27.4  | 16.7  | 25.1  |

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#86

Perylene-d12

Concen: 20.00 ng/mL

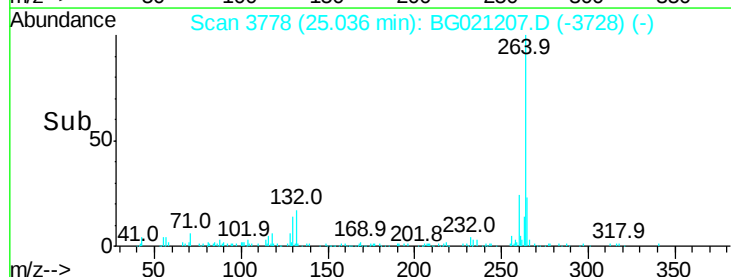
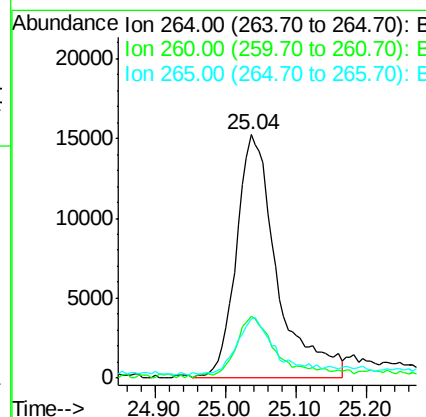
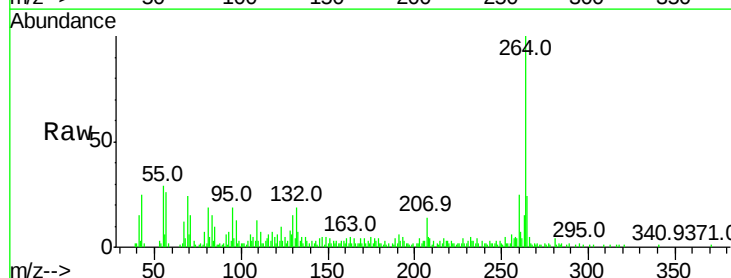
RT: 25.04 min Scan# 3778

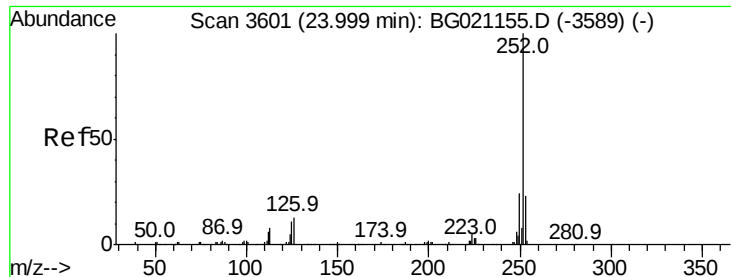
Delta R.T. -0.01 min

Lab File: BG021207.D

Acq: 2 Mar 2016 6:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 61186 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 25.4  | 18.5  | 27.7  |
| 265       | 24.4  | 18.6  | 28.0  |





#87

Benzo(b)fluoranthene

Concen: 9.03 ng

RT: 24.00 min Scan# 3602

Delta R.T. 0.00 min

Lab File: BG021207.D

Acq: 2 Mar 2016 6:20

Instrument :

BNA\_G

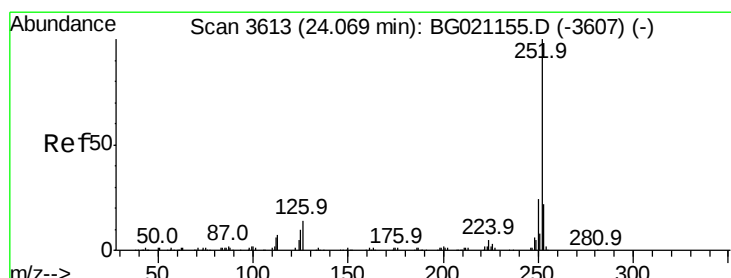
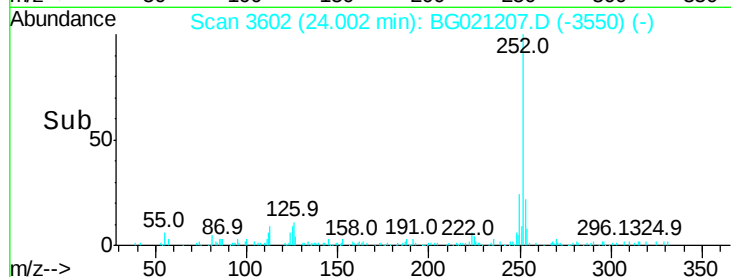
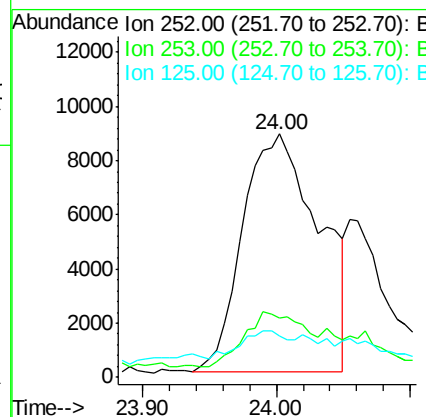
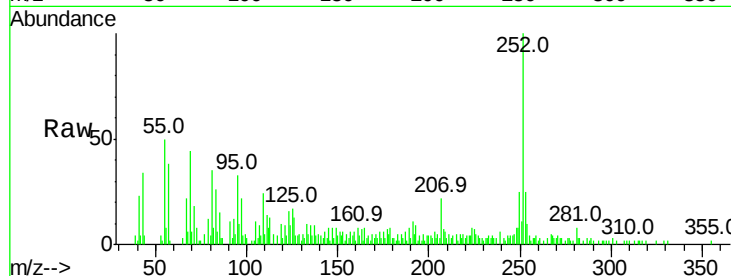
ClientSampleId :

P-09RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 34766 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.5  | 16.8  | 25.2  |
| 125       | 16.8  | 8.2   | 12.2# |

Manual Integrations  
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#88

Benzo(k)fluoranthene

Concen: 3.73 ng m

RT: 24.05 min Scan# 3611

Delta R.T. -0.01 min

Lab File: BG021207.D

Acq: 2 Mar 2016 6:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 14376 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 16.4  | 24.6# |
| 125       | 24.7  | 8.2   | 12.2# |

