

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081016\  
 Data File : BG023591.D  
 Acq On : 10 Aug 2016 14:21  
 Operator : UM/SJ  
 Sample : H4360-09  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 PR001-SS002-3642-01

Manual Integrations  
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Quant Time: Aug 11 04:10:32 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 11 03:58:16 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 119021   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.95 | 136  | 533067   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.79 | 164  | 391748   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.55 | 188  | 1015084  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.87 | 240  | 1098968m | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.27 | 264  | 1073968  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.48  | 96  | 4725    | 1.69  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.27  | 99  | 252100  | 21.03 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.43  | 67  | 163330  | 21.26 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.64  | 132 | 172872  | 21.13 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.83  | 113 | 194236  | 20.75 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.29  | 128 | 91025   | 21.66 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 104007  | 21.55 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.57 | 165 | 193019  | 21.20 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.09 | 131 | 257566m | 24.12 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 723505  | 22.56 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 828706  | 22.96 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.00 | 143 | 114652m | 20.94 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.78 | 176 | 683365  | 23.06 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.90 | 200 | 119929  | 18.42 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.65 | 188 | 1098526 | 24.02 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.94 | 212 | 1272711 | 22.88 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.03 | 264 | 1159108 | 23.84 | ng/ul | 0.00 |

## Target Compounds

|                        |       |     |         |       |        | Qvalue |
|------------------------|-------|-----|---------|-------|--------|--------|
| 44) Dimethylphthalate  | 14.23 | 163 | 454877  | 14.32 | ng/ul  | 98     |
| 69) Phenanthrene       | 17.59 | 178 | 105626  | 2.01  | ng/ul  | 99     |
| 74) Fluoranthene       | 19.60 | 202 | 141106  | 2.62  | ng/ul# | 95     |
| 77) Pyrene             | 19.97 | 202 | 188338m | 2.77  | ng/ul  |        |
| 80) Benzo(a)anthracene | 21.85 | 228 | 77169m  | 1.25  | ng/ul  |        |
| 82) Chrysene           | 21.92 | 228 | 85914   | 1.53  | ng/ul  | 97     |
| 88) Benzo(a)pyrene     | 25.10 | 252 | 65167m  | 1.10  | ng/ul  |        |

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

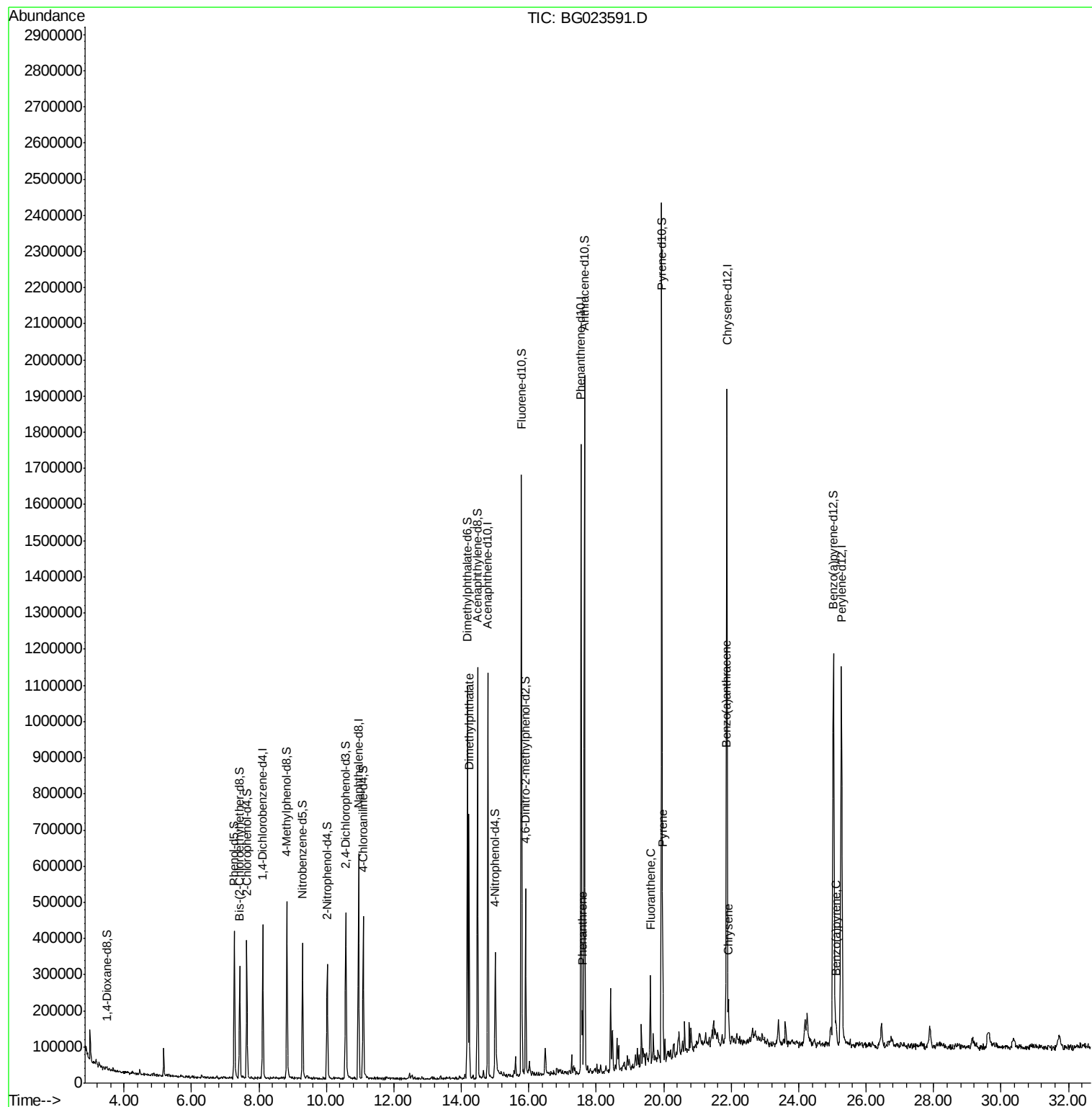
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081016\  
Data File : BG023591.D  
Acq On : 10 Aug 2016 14:21  
Operator : UM/SJ  
Sample : H4360-09  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

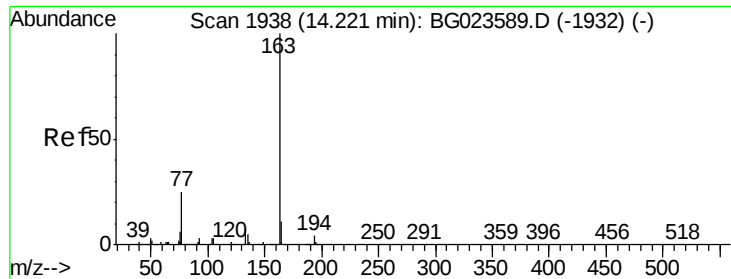
Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-3642-01

Manual Integrations  
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Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 11 03:58:16 2016  
Response via : Initial Calibration





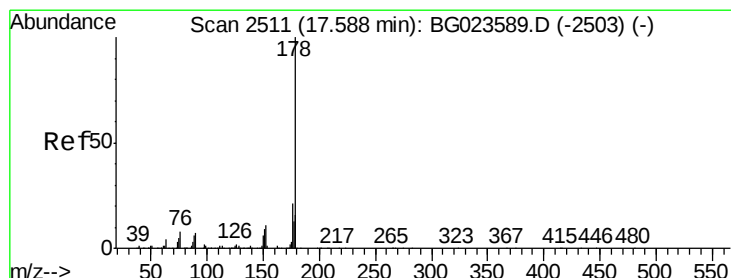
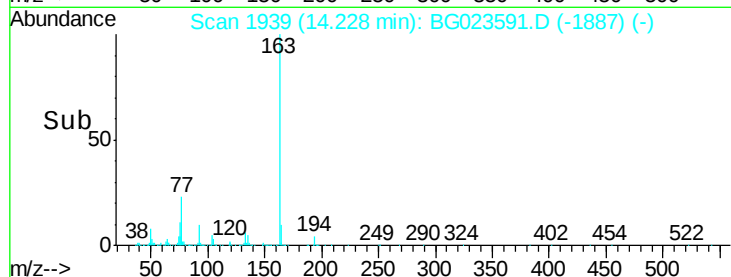
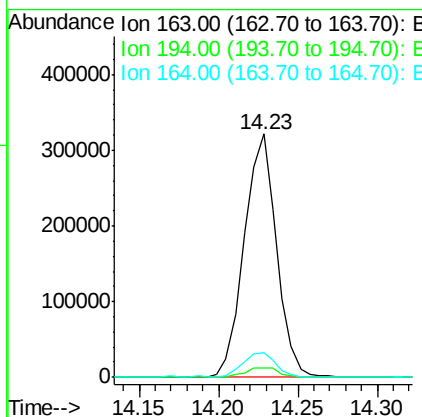
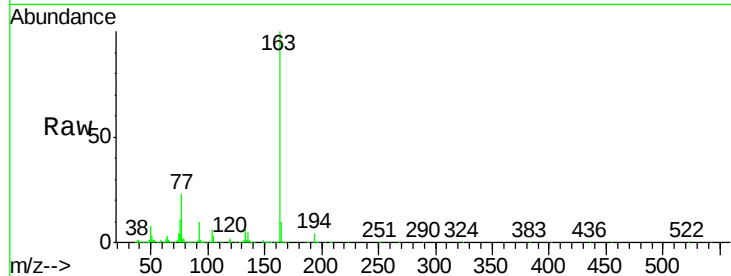
#44  
Dimethylphthalate  
Concen: 14.32 ng/ul  
RT: 14.23 min Scan# 1939  
Delta R.T. 0.01 min  
Lab File: BG023591.D  
Acq: 10 Aug 2016 14:21

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-3642-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.4   | 5.2   |
| 164     | 10.1  | 8.8   | 13.2  |

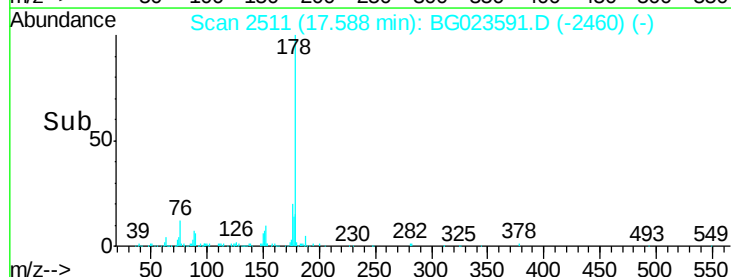
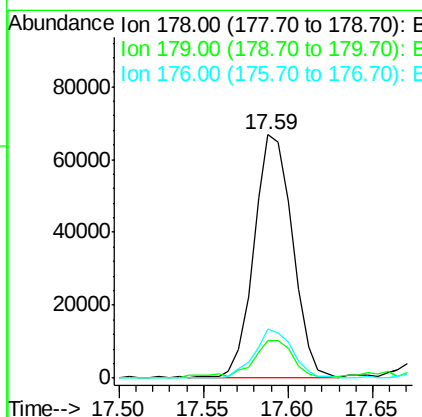
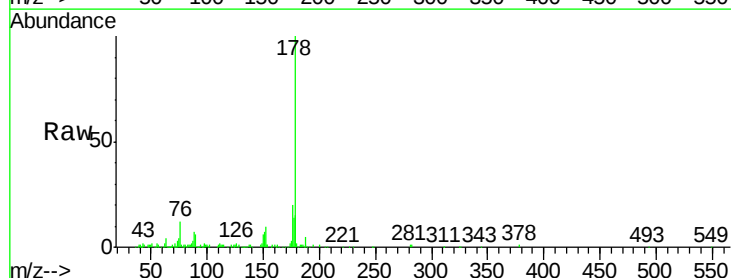
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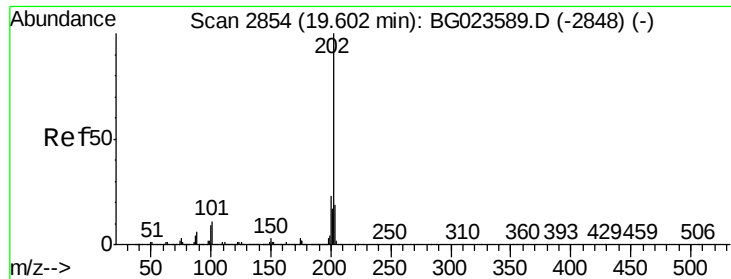
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#69  
Phenanthrene  
Concen: 2.01 ng/ul  
RT: 17.59 min Scan# 2511  
Delta R.T. 0.00 min  
Lab File: BG023591.D  
Acq: 10 Aug 2016 14:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 12.9  | 19.3  |
| 176     | 20.2  | 15.8  | 23.8  |





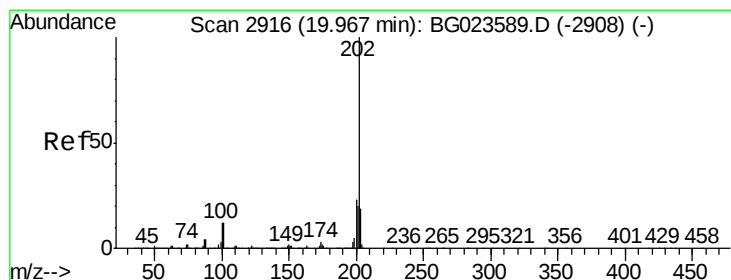
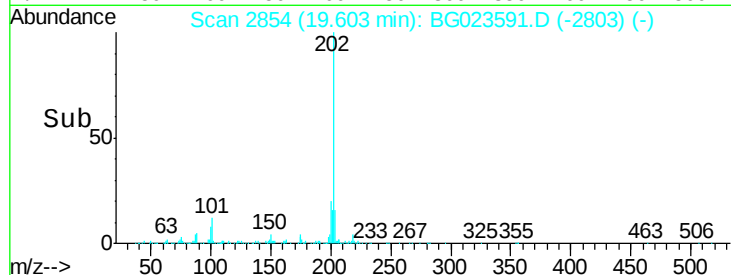
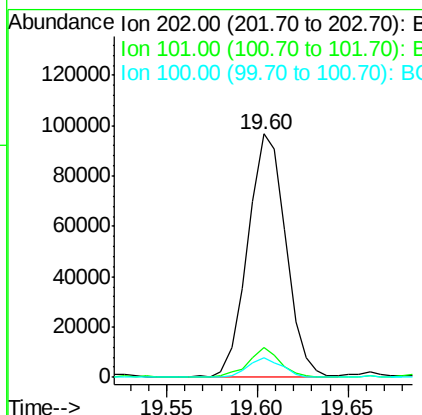
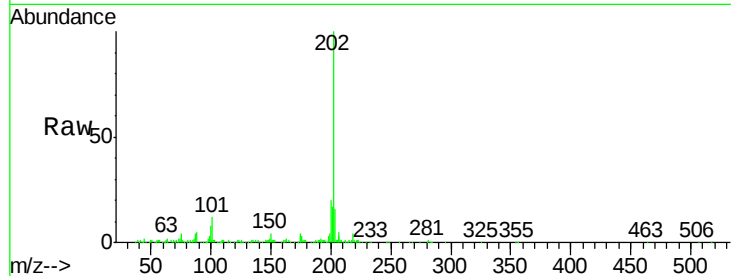
#74  
 Fluoranthene  
 Concen: 2.62 ng/ul  
 RT: 19.60 min Scan# 2854  
 Delta R.T. 0.00 min  
 Lab File: BG023591.D  
 Acq: 10 Aug 2016 14:21

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR001-SS002-3642-01

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 141106 |       |       |
| 101 | 12.3 | 10.6  | 16.0   |       |       |
| 100 | 8.1  | 8.7   | 13.1   |       |       |

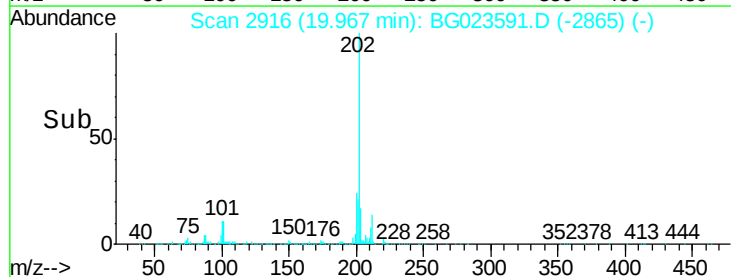
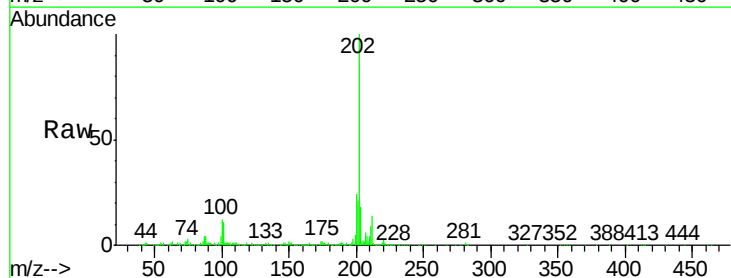
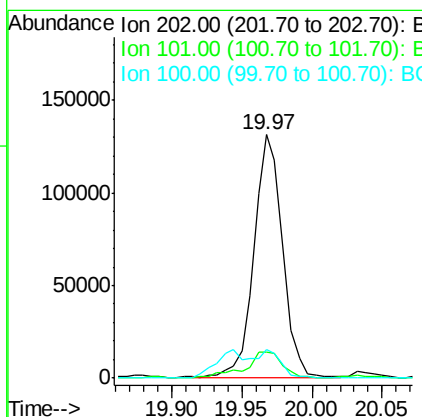
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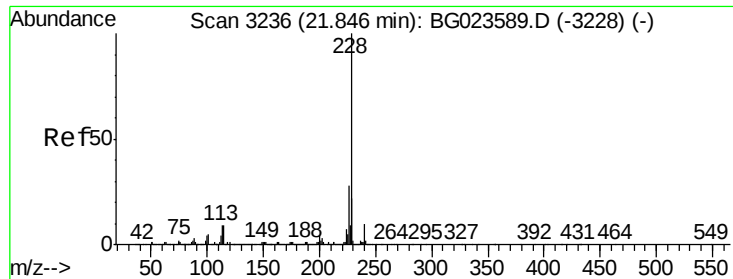
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#77  
 Pyrene  
 Concen: 2.77 ng/ul m  
 RT: 19.97 min Scan# 2916  
 Delta R.T. 0.00 min  
 Lab File: BG023591.D  
 Acq: 10 Aug 2016 14:21

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 188338 |       |       |
| 101 | 10.8 | 12.5  | 18.7   |       |       |
| 100 | 11.6 | 10.2  | 15.4   |       |       |





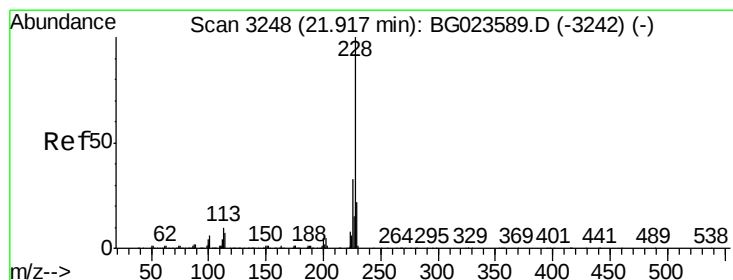
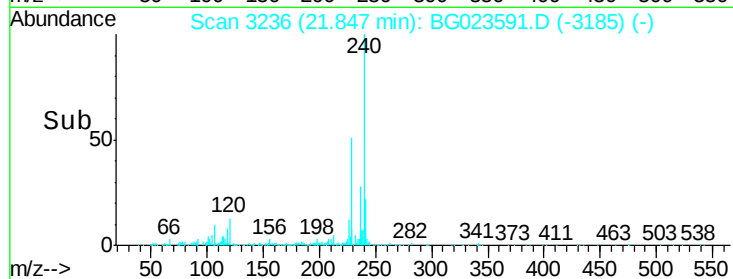
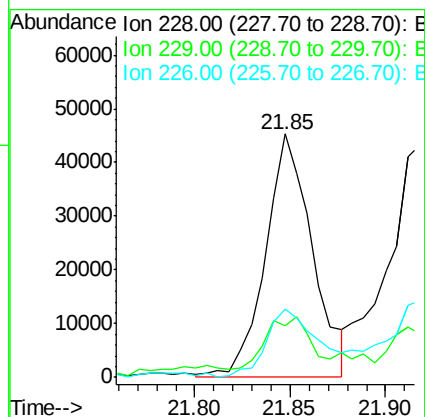
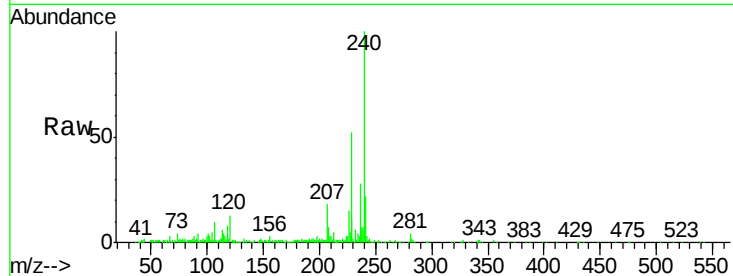
#80  
Benzo(a)anthracene  
Concen: 1.25 ng/ul m  
RT: 21.85 min Scan# 3236  
Delta R.T. 0.00 min  
Lab File: BG023591.D  
Acq: 10 Aug 2016 14:21

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-3642-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.2  | 15.4  | 23.2  |
| 226     | 28.0  | 22.8  | 34.2  |

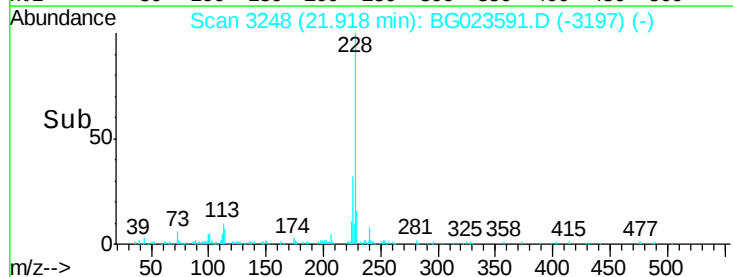
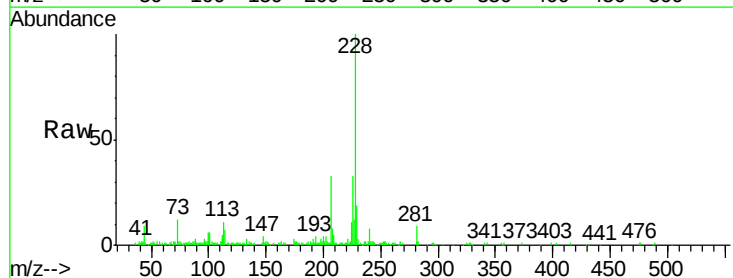
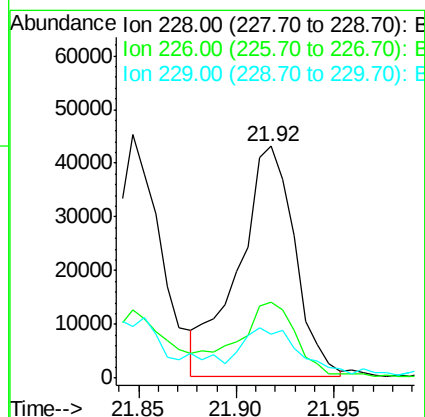
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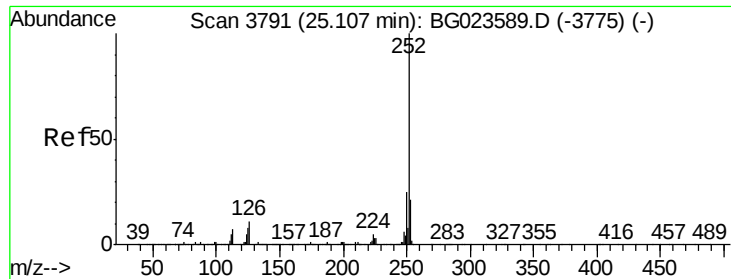
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#82  
Chrysene  
Concen: 1.53 ng/ul  
RT: 21.92 min Scan# 3248  
Delta R.T. 0.00 min  
Lab File: BG023591.D  
Acq: 10 Aug 2016 14:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.7  | 24.2  | 36.4  |
| 229     | 19.0  | 15.0  | 22.6  |





#88

Benzo(a)pyrene

Concen: 1.10 ng/ul m

RT: 25.10 min Scan# 3790

Delta R.T. -0.01 min

Lab File: BG023591.D

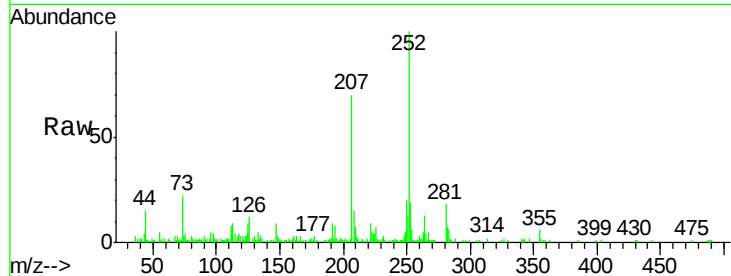
Acq: 10 Aug 2016 14:21

Instrument :

BNA\_G

ClientSampleId :

PR001-SS002-3642-01



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 19.1  | 19.0  | 28.4  |
| 125     | 9.3   | 12.0  | 18.0  |

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