

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081115\  
 Data File : BG018386.D  
 Acq On : 11 Aug 2015 18:03  
 Operator : UM/MA  
 Sample : G3136-21  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C02K8

Manual Integrations  
 APPROVED

MMDadoda  
 8/12/2015 3:53:21 PM

Quant Time: Aug 12 03:07:18 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 12 00:54:17 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 93583    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 401604   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.67 | 164  | 216103   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.41 | 188  | 440354   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.68 | 240  | 389006   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.92 | 264  | 397222   | 20.00 | ng/ul | 0.03     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.48  | 96  | 5131   | 2.42  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.20  | 99  | 86065  | 10.13 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.36  | 67  | 59825  | 11.37 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.58  | 132 | 73483  | 11.30 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 33629  | 4.71  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.20  | 128 | 38238  | 12.21 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 40437  | 12.68 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 69720  | 10.30 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 54984  | 7.19  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.07 | 166 | 218805 | 12.03 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.36 | 160 | 244639 | 10.68 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.86 | 143 | 16234  | 4.96  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.65 | 176 | 158351 | 10.00 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0d     | 0.00  | ng/ul |      |
| 71) Anthracene-d10             | 17.51 | 188 | 214803 | 10.20 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.79 | 212 | 202305 | 10.02 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.70 | 264 | 183654 | 8.71  | ng/ul | 0.02 |

## Target Compounds

|                                |       |     |        |       |        | Ovalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene                | 10.90 | 128 | 22844  | 1.08  | ng/ul# | 90     |
| 34) 2-Methylnaphthalene        | 12.50 | 142 | 22201  | 1.44  | ng/ul  | 85     |
| 45) Dimethylphthalate          | 14.12 | 163 | 132809 | 7.41  | ng/ul# | 98     |
| 70) Phenanthrene               | 17.45 | 178 | 146617 | 6.14  | ng/ul  | 97     |
| 72) Anthracene                 | 17.55 | 178 | 37797  | 1.55  | ng/ul# | 84     |
| 76) Di-n-butylphthalate        | 18.37 | 149 | 164937 | 5.91  | ng/ul  | 96     |
| 77) Fluoranthene               | 19.46 | 202 | 246753 | 9.67  | ng/ul  | 97     |
| 80) Pyrene                     | 19.83 | 202 | 273323 | 10.39 | ng/ul  | 100    |
| 83) Benzo(a)anthracene         | 21.67 | 228 | 107539 | 4.46  | ng/ul# | 86     |
| 84) Bis(2-ethylhexyl)phthalate | 21.58 | 149 | 528844 | 33.64 | ng/ul  | 97     |
| 85) Chrysene                   | 21.72 | 228 | 131995 | 5.85  | ng/ul# | 91     |
| 88) Benzo(b)fluoranthene       | 23.90 | 252 | 170366 | 6.83  | ng/ul# | 60     |
| 89) Benzo(k)fluoranthene       | 23.96 | 252 | 67413m | 2.81  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 24.77 | 252 | 112318 | 4.73  | ng/ul# | 63     |
| 92) Indeno(1,2,3-cd)pyrene     | 28.62 | 276 | 77681  | 2.83  | ng/ul# | 86     |
| 94) Benzo(g,h,i)perylene       | 29.77 | 276 | 64336m | 2.79  | ng/ul  |        |

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

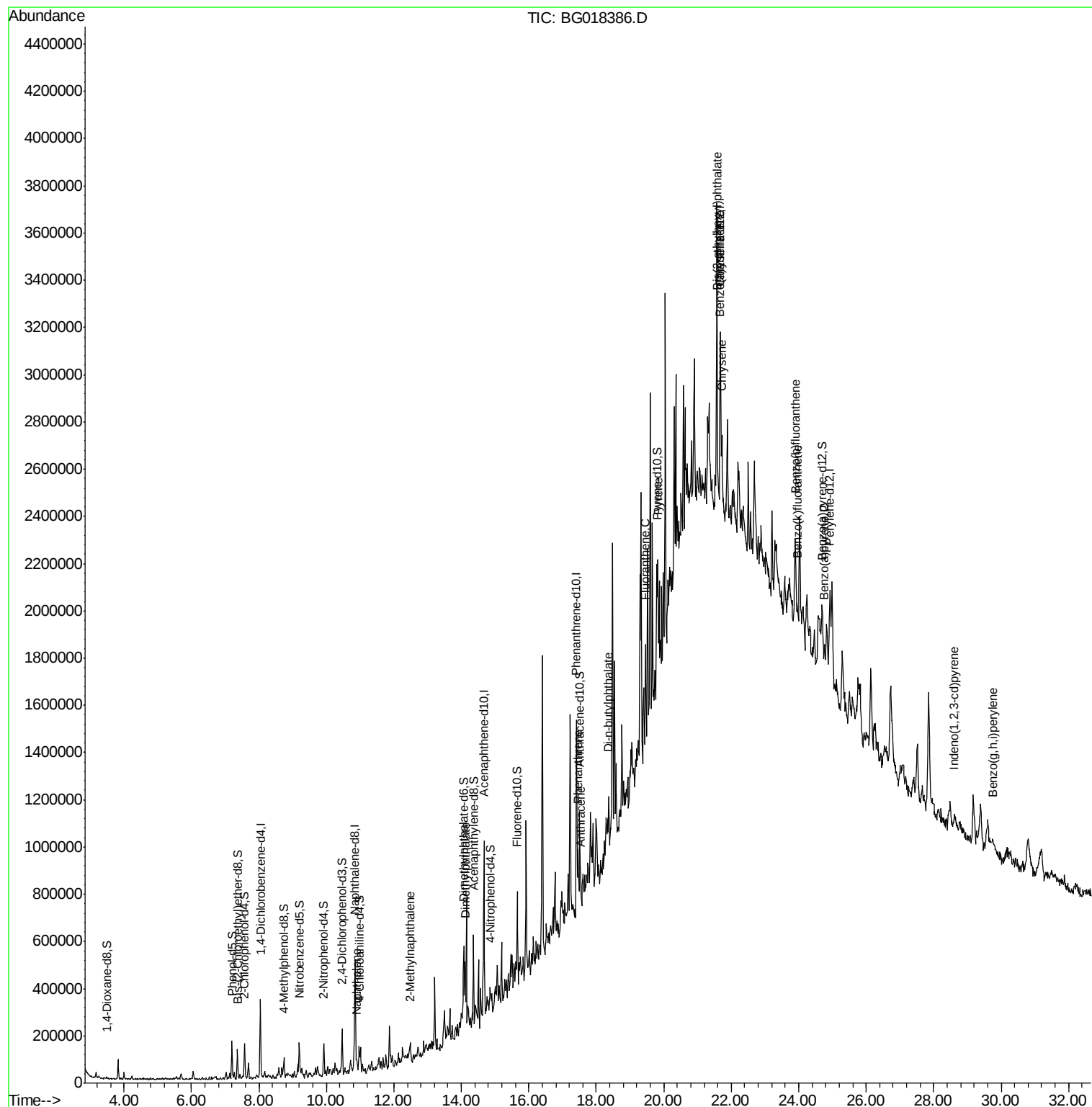
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081115\  
Data File : BG018386.D  
Acq On : 11 Aug 2015 18:03  
Operator : UM/MA  
Sample : G3136-21  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

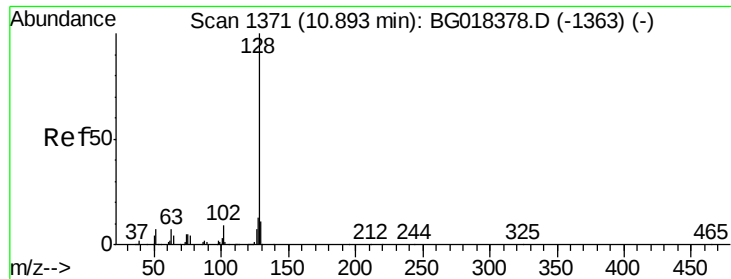
Instrument :  
BNA\_G  
ClientSampled :  
C02K8

Manual Integrations  
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8/12/2015 3:53:21 PM

Quant Time: Aug 12 03:07:18 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG080915.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 12 00:54:17 2015  
Response via : Initial Calibration





#28

Naphthalene

Concen: 1.08 ng/ul

RT: 10.90 min Scan# 1372

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

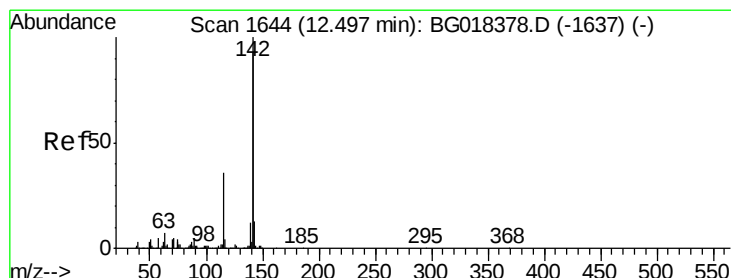
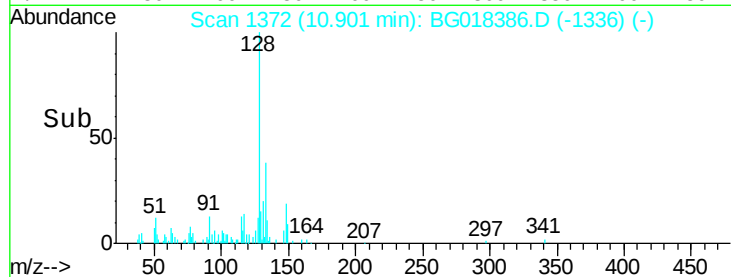
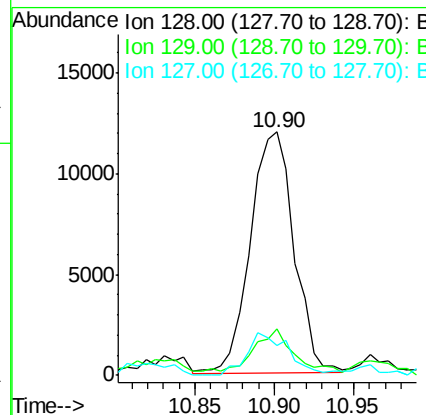
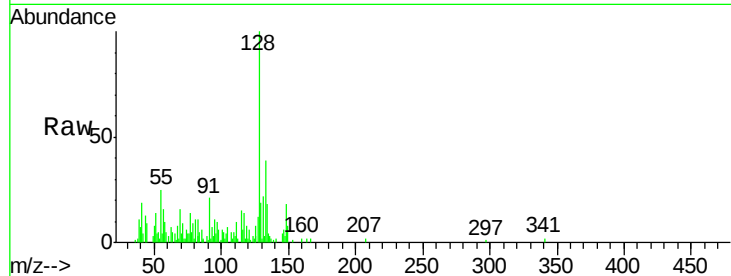
ClientSampleId :

C02K8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 19.3  | 9.6   | 14.4# |
| 127     | 12.0  | 10.5  | 15.7  |

Manual Integrations  
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#34

2-Methylnaphthalene

Concen: 1.44 ng/ul

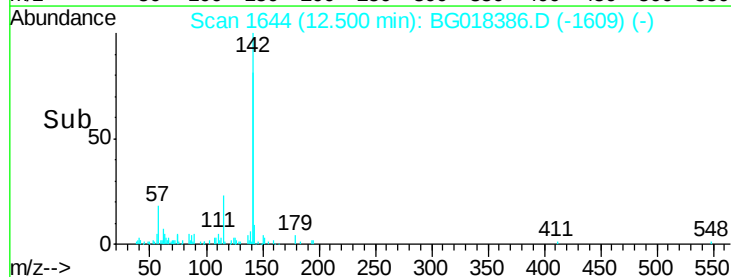
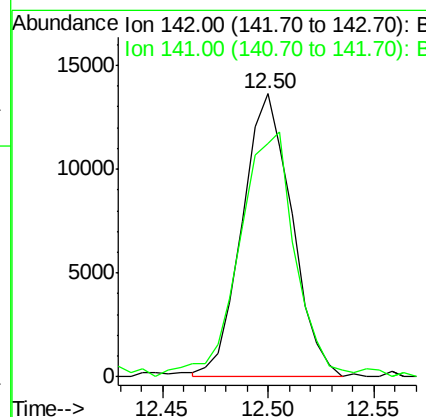
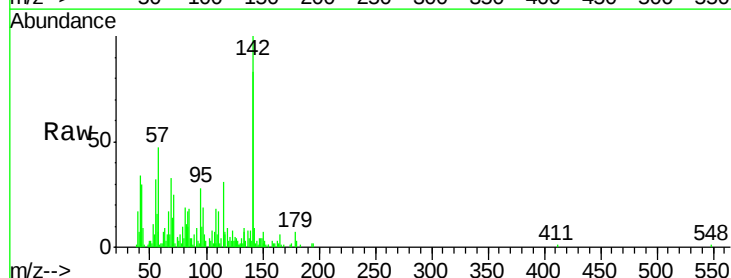
RT: 12.50 min Scan# 1644

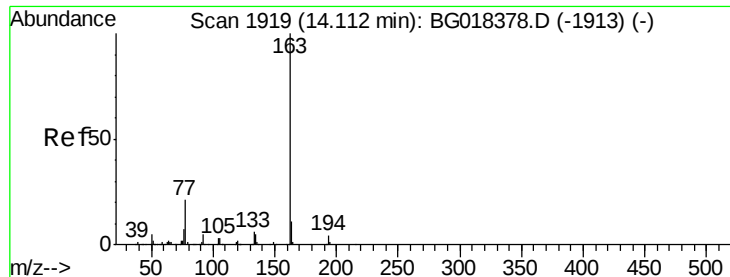
Delta R.T. 0.00 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 82.7  | 78.0  | 117.0 |





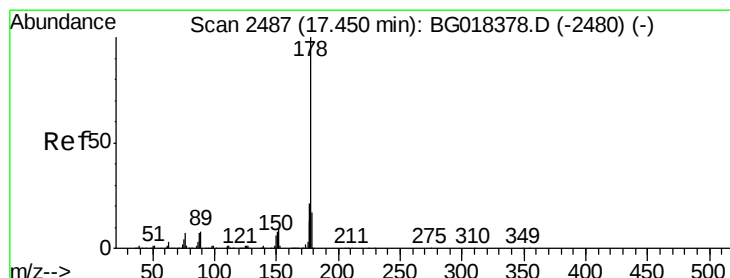
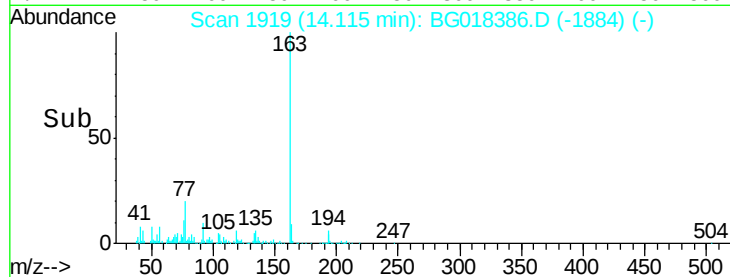
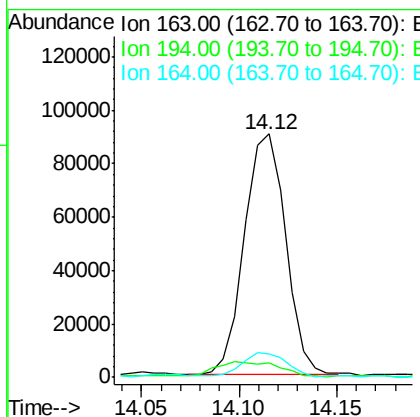
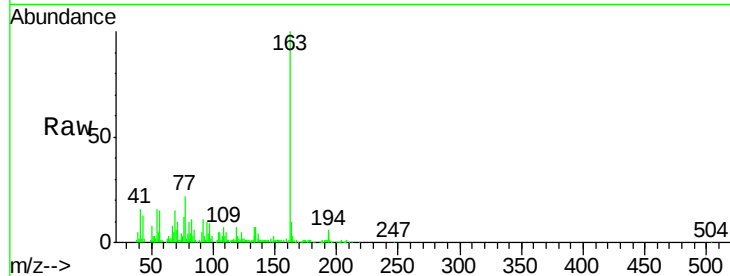
#45  
Dimethylphthalate  
Concen: 7.41 ng/ul  
RT: 14.12 min Scan# 1919  
Delta R.T. 0.00 min  
Lab File: BG018386.D  
Acq: 11 Aug 2015 18:03

Instrument :  
BNA\_G  
ClientSampleId :  
C02K8

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 132809 |       |       |
| 194     | 5.9   | 2.9    | 4.3#  |       |
| 164     | 9.5   | 7.7    | 11.5  |       |

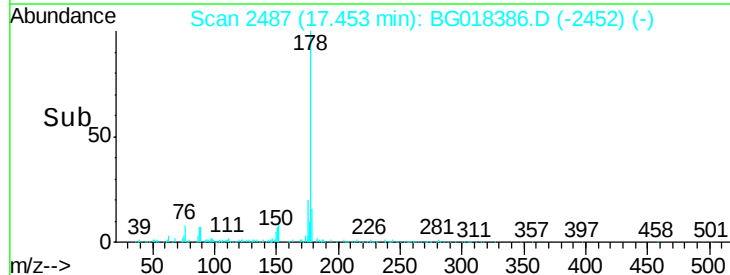
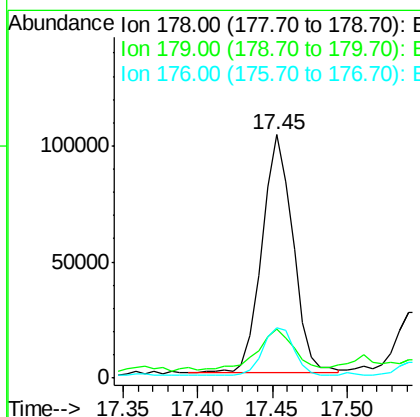
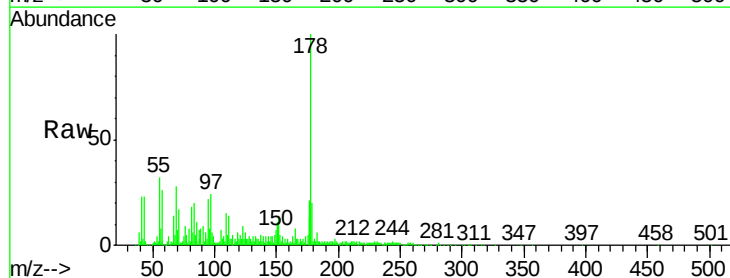
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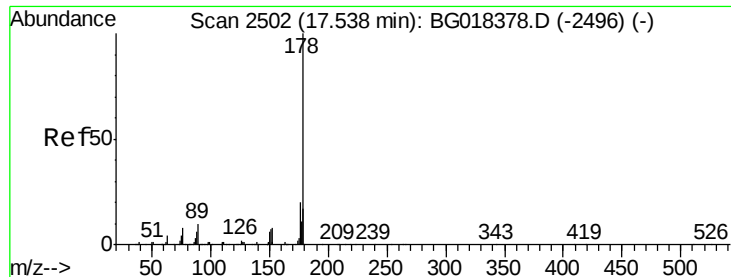
MMDadoda  
8/12/2015 3:53:21 PM



#70  
Phenanthrene  
Concen: 6.14 ng/ul  
RT: 17.45 min Scan# 2487  
Delta R.T. 0.00 min  
Lab File: BG018386.D  
Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 146617 |       |       |
| 179     | 19.9  | 13.7   | 20.5  |       |
| 176     | 20.8  | 16.6   | 24.8  |       |





#72

Anthracene

Concen: 1.55 ng/ul

RT: 17.55 min Scan# 2503

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

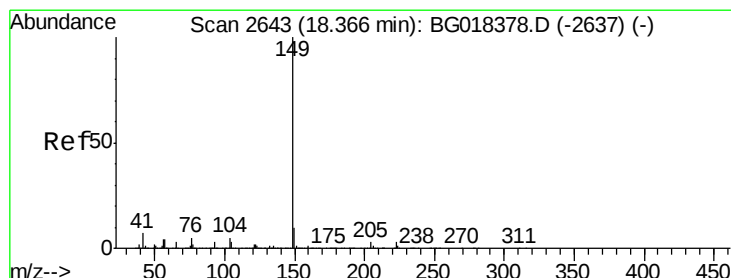
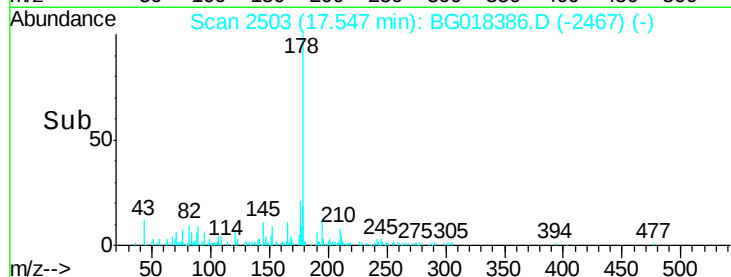
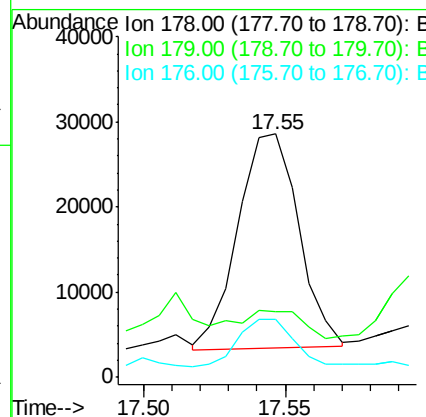
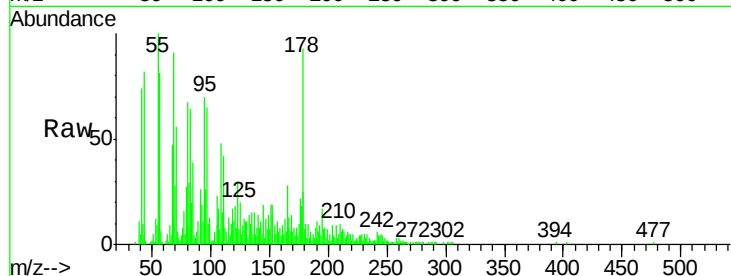
ClientSampleId :

C02K8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 27.2  | 13.0  | 19.4# |
| 176     | 23.6  | 16.0  | 24.0  |

Manual Integrations  
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#76

Di-n-butylphthalate

Concen: 5.91 ng/ul

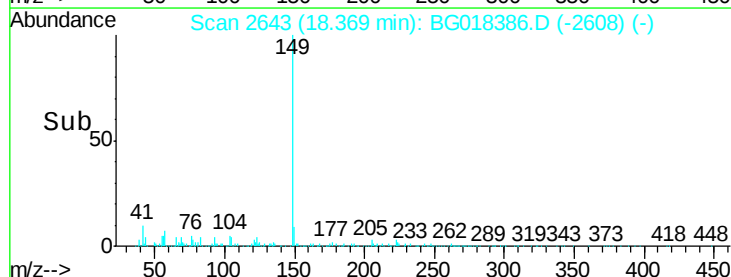
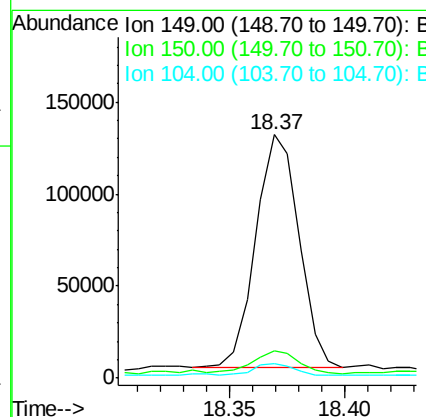
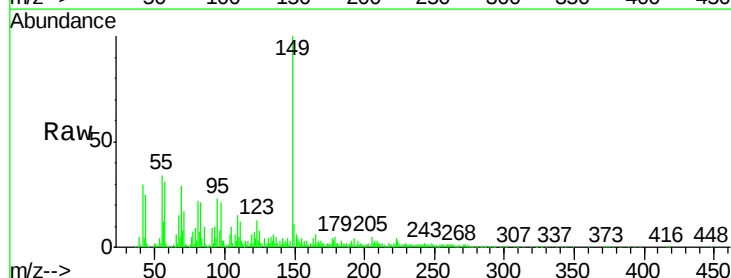
RT: 18.37 min Scan# 2643

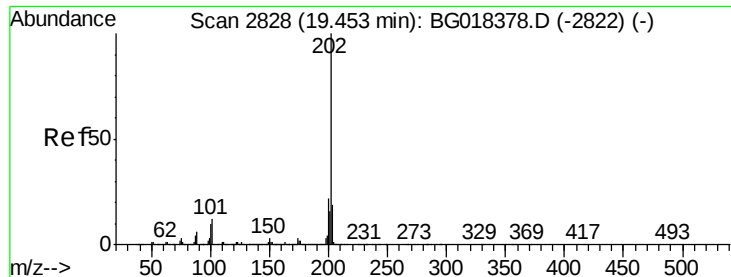
Delta R.T. 0.00 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 11.2  | 7.5   | 11.3  |
| 104     | 6.2   | 4.3   | 6.5   |





#77

Fluoranthene

Concen: 9.67 ng/ul

RT: 19.46 min Scan# 2829

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

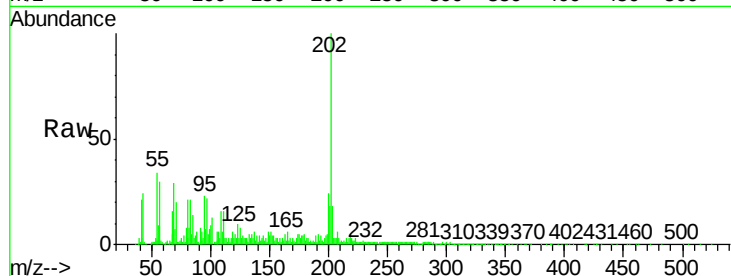
ClientSampleId :

C02K8

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 246753 |       |       |
| 101     | 13.4 | 9.7   | 14.5   |       |       |
| 100     | 8.9  | 7.8   | 11.8   |       |       |

Manual Integrations  
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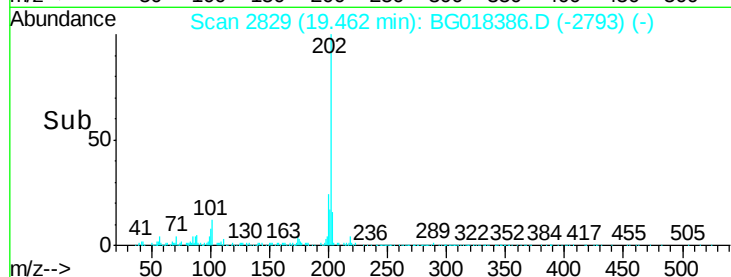


Abundance Ion 202.00 (201.70 to 202.70): E

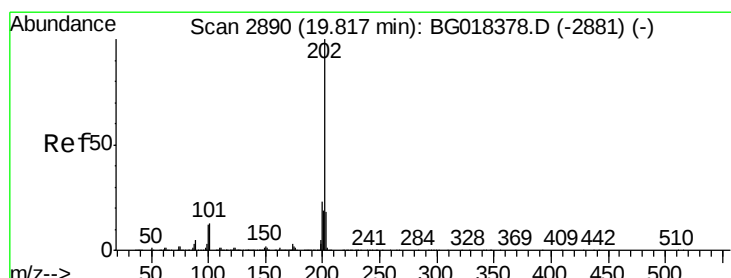
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

Time-->



Time-->



#80

Pyrene

Concen: 10.39 ng/ul

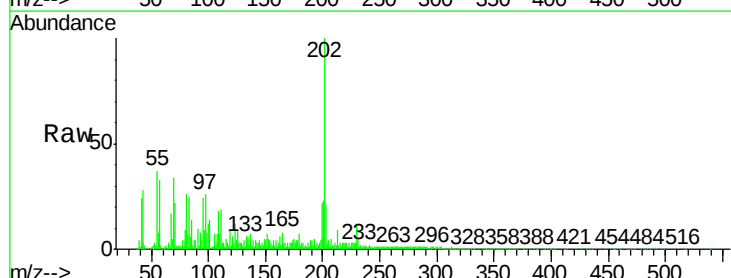
RT: 19.83 min Scan# 2891

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 273323 |       |       |
| 101     | 13.9 | 11.0  | 16.4   |       |       |
| 100     | 12.3 | 9.8   | 14.6   |       |       |

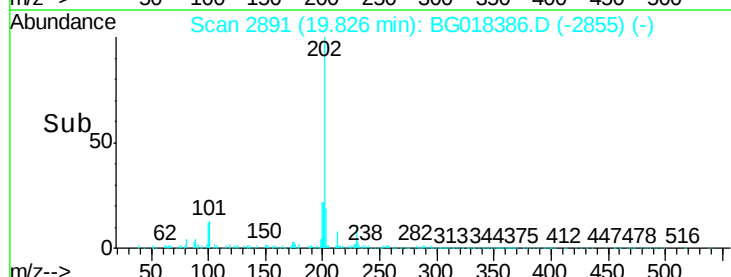


Abundance Ion 202.00 (201.70 to 202.70): E

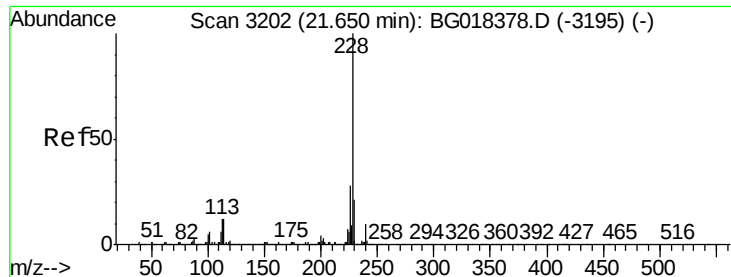
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

Time-->



Time-->



#83

Benzo(a)anthracene

Concen: 4.46 ng/ul

RT: 21.67 min Scan# 3204

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

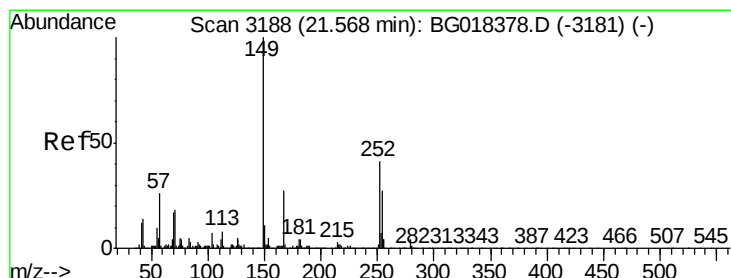
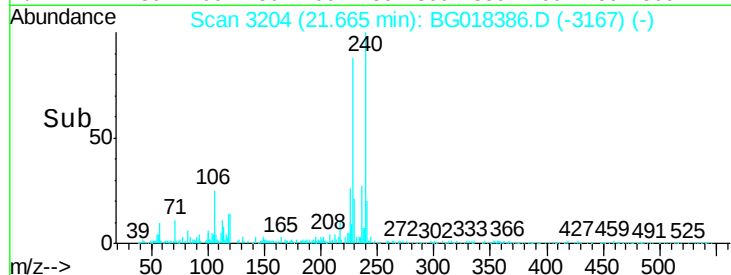
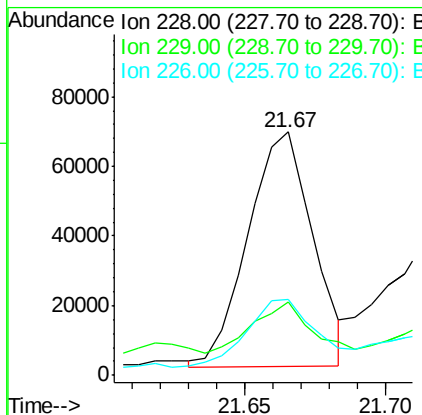
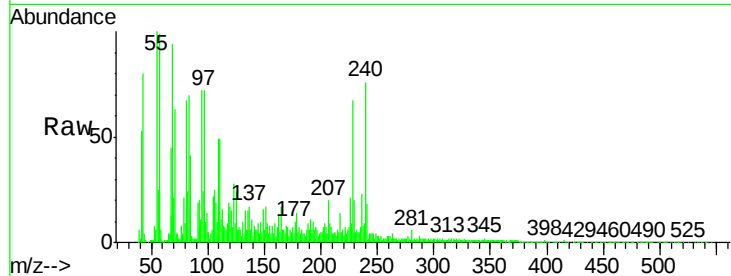
ClientSampleId :

C02K8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 107539 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 30.3  | 15.5  | 23.3#  |
| 226       | 31.2  | 22.1  | 33.1   |

Manual Integrations  
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#84

Bis(2-ethylhexyl)phthalate

Concen: 33.64 ng/ul

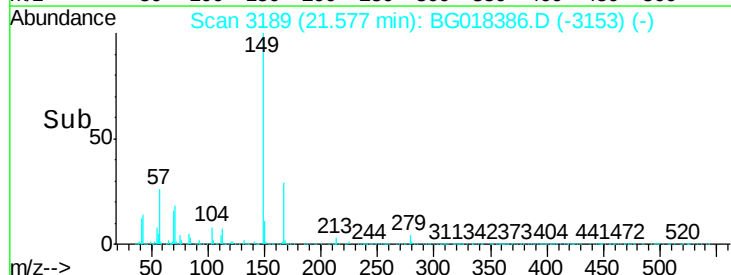
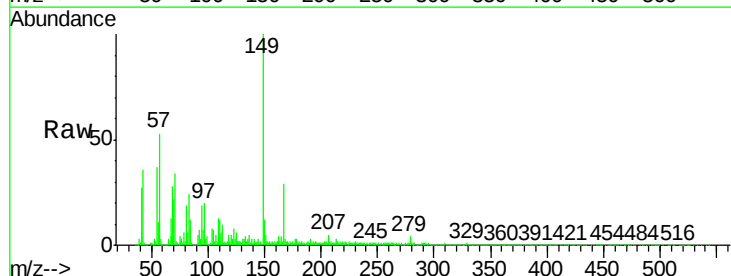
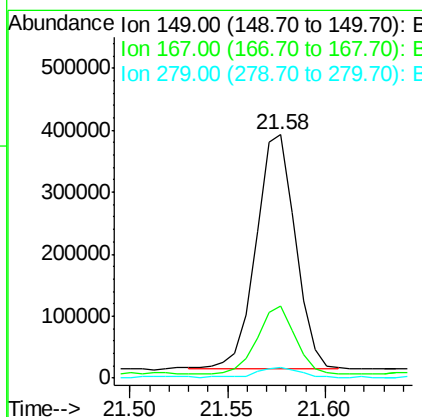
RT: 21.58 min Scan# 3189

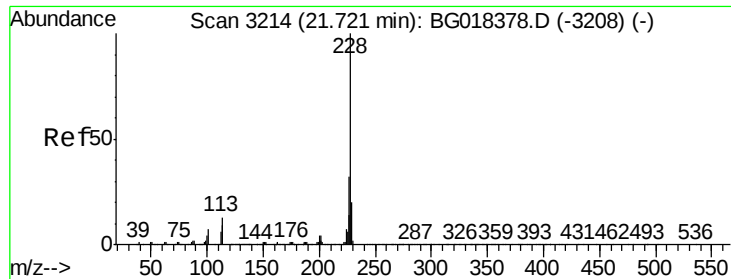
Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 528844 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 29.4  | 22.2  | 33.2   |
| 279       | 4.1   | 2.8   | 4.2    |





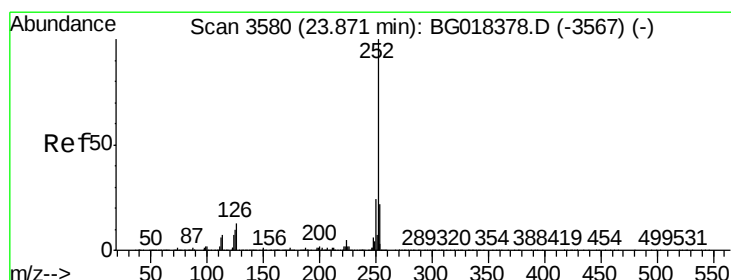
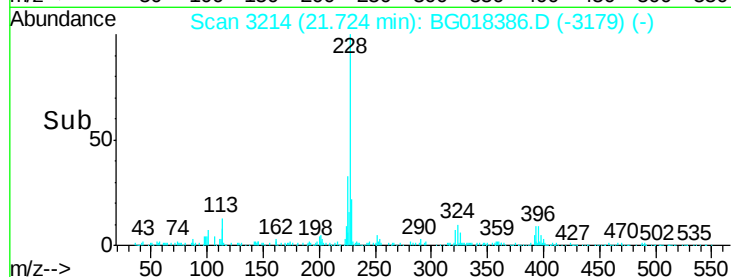
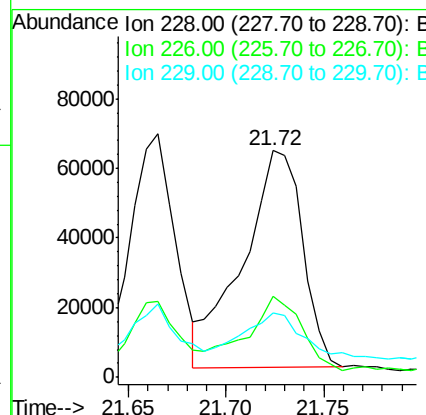
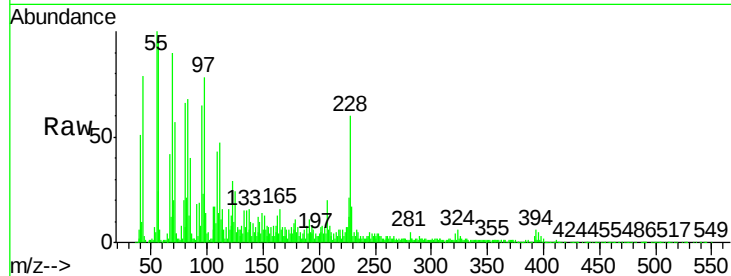
#85  
Chrysene  
Concen: 5.85 ng/ul  
RT: 21.72 min Scan# 3214  
Delta R.T. 0.00 min  
Lab File: BG018386.D  
Acq: 11 Aug 2015 18:03

Instrument :  
BNA\_G  
ClientSampleId :  
C02K8

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 131995 |       |       |
| 226     | 35.9  | 26.5   | 39.7  |       |
| 229     | 28.2  | 16.9   | 25.3  |       |

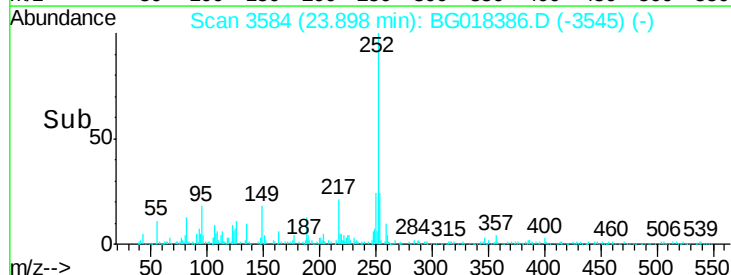
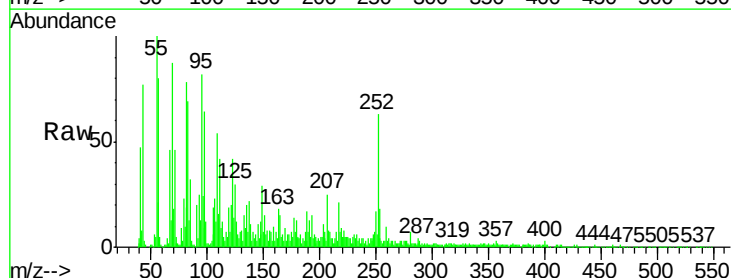
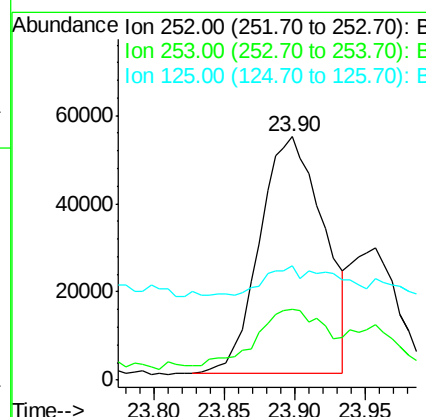
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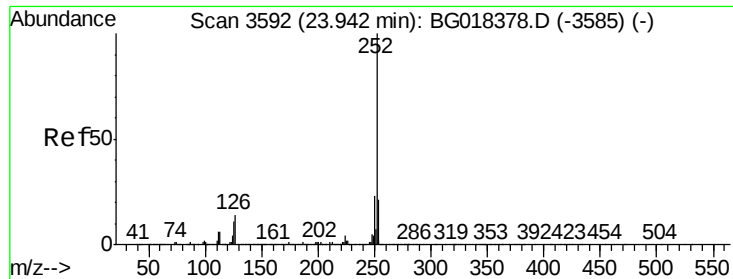
MMDadoda  
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#88  
Benzo(b)fluoranthene  
Concen: 6.83 ng/ul  
RT: 23.90 min Scan# 3584  
Delta R.T. 0.03 min  
Lab File: BG018386.D  
Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 170366 |       |       |
| 253     | 29.0  | 18.1   | 27.1  |       |
| 125     | 47.2  | 8.3    | 12.5  |       |





#89

Benzo(k)fluoranthene

Concen: 2.81 ng/ul m

RT: 23.96 min Scan# 3594

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

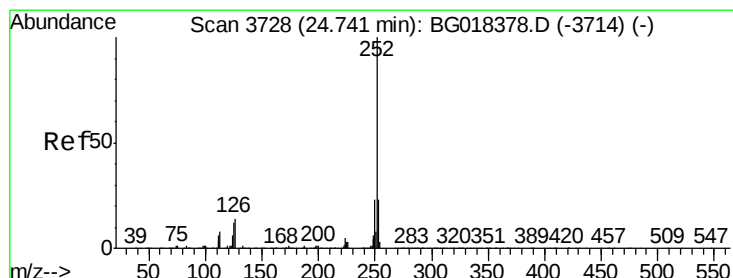
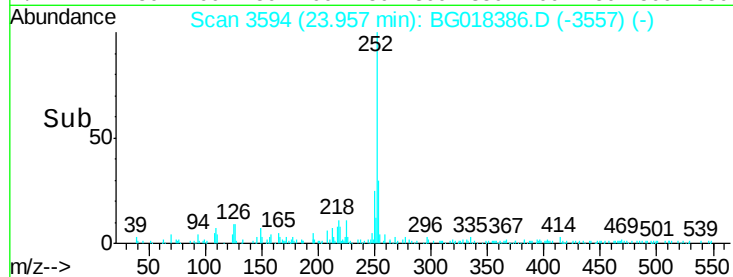
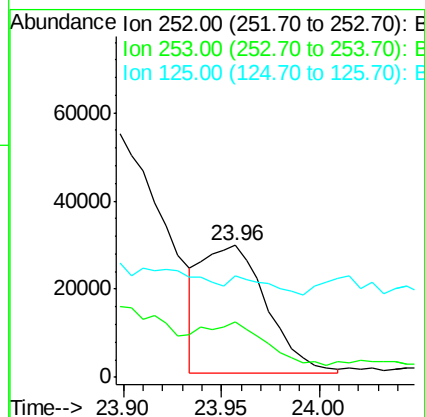
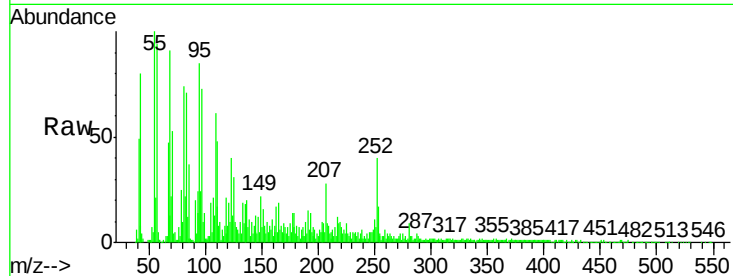
ClientSampleId :

C02K8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 67413 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 42.1  | 17.8  | 26.6# |
| 125       | 76.4  | 9.0   | 13.4# |

Manual Integrations  
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8/12/2015 3:53:21 PM



#91

Benzo(a)pyrene

Concen: 4.73 ng/ul

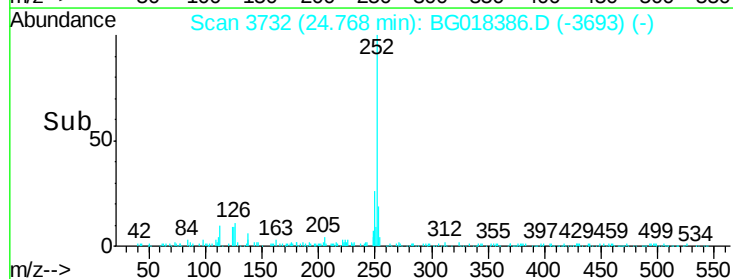
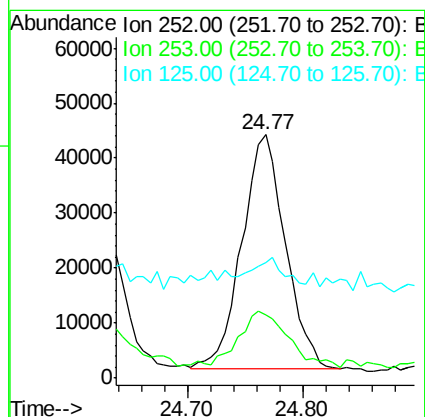
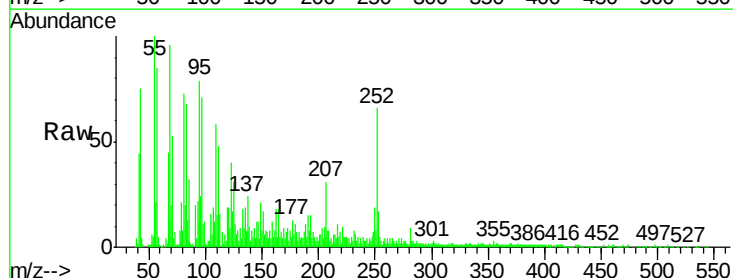
RT: 24.77 min Scan# 3732

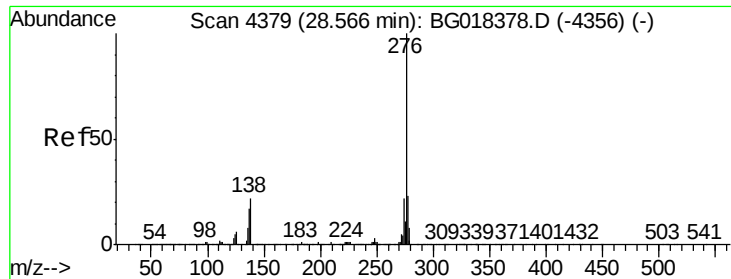
Delta R.T. 0.03 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 112318 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.8  | 17.7  | 26.5   |
| 125       | 47.6  | 10.2  | 15.2#  |





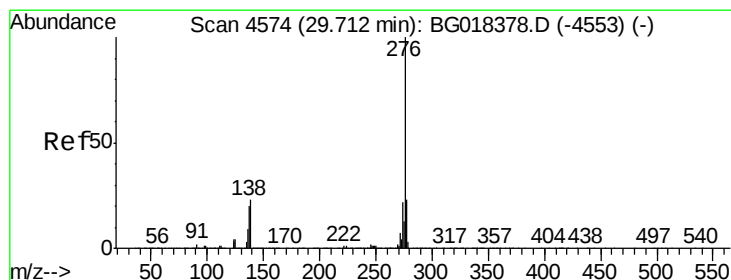
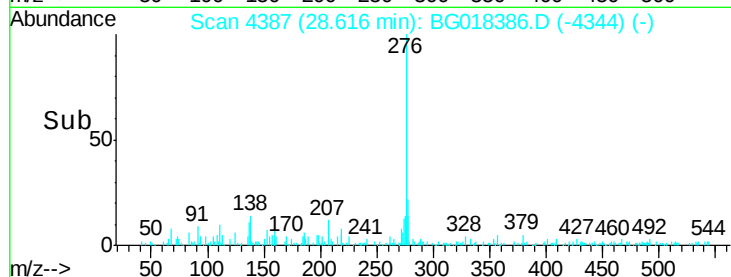
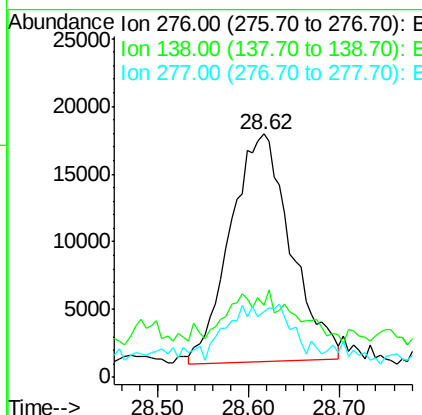
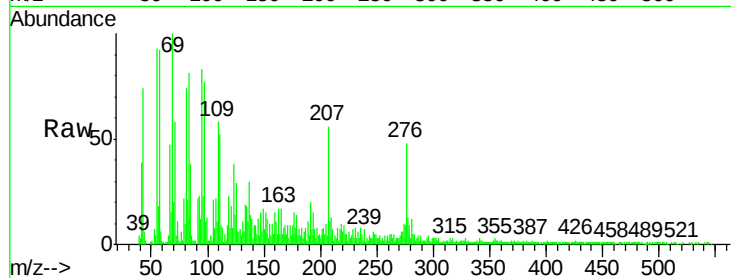
#92  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.83 ng/ul  
 RT: 28.62 min Scan# 4387  
 Delta R.T. 0.05 min  
 Lab File: BG018386.D  
 Acq: 11 Aug 2015 18:03

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C02K8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.8  | 15.8  | 23.6# |
| 277     | 27.0  | 18.9  | 28.3  |

Manual Integrations  
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 8/12/2015 3:53:21 PM



#94  
 Benzo(g,h,i)perylene  
 Concen: 2.79 ng/ul m  
 RT: 29.77 min Scan# 4583  
 Delta R.T. 0.06 min  
 Lab File: BG018386.D  
 Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 36.6  | 16.5  | 24.7# |
| 277     | 25.3  | 19.0  | 28.6  |

