

Data Path : Z:\HPCHEM1\BNA G\DATA\BG102815\  
 Data File : BG019422.D  
 Acq On : 29 Oct 2015 18:06  
 Operator : UM/NP  
 Sample : G3996-18DL 25X  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E5LK7DL

Manual Integrations  
 APPROVED

Mmdadoda  
 10/30/2015 6:32:30 PM

Quant Time: Oct 30 06:17:18 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102815.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Oct 30 04:25:10 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.20  | 152  | 40479    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.04 | 136  | 177556   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.84 | 164  | 136992   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.58 | 188  | 333492   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.87 | 240  | 405269   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.25 | 264  | 393909   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.51  | 96  | 1040   | 1.23 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.37  | 99  | 5128   | 1.38 | ng/ul | 0.01  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.52  | 67  | 3922   | 1.66 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.73  | 132 | 3887   | 1.68 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.92  | 113 | 4665   | 1.58 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.38  | 128 | 3109   | 2.38 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 10.11 | 143 | 2047   | 1.32 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.66 | 165 | 4863   | 1.45 | ng/ul | 0.01  |
| 29) 4-Chloroaniline-d4         | 11.15 | 131 | 9856m  | 2.90 | ng/ul | -0.02 |
| 44) Dimethylphthalate-d6       | 14.24 | 166 | 15034  | 1.33 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.53 | 160 | 18315  | 1.46 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 15.05 | 143 | 4231m  | 2.36 | ng/ul | 0.02  |
| 58) Fluorene-d10               | 15.82 | 176 | 20776  | 1.99 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.95 | 200 | 2644   | 1.22 | ng/ul | 0.01  |
| 71) Anthracene-d10             | 17.67 | 188 | 22940m | 1.51 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 19.95 | 212 | 22787  | 1.28 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 25.02 | 264 | 25382  | 1.28 | ng/ul | 0.00  |

## Target Compounds

|                         |       |     |         |        | Ovalue    |
|-------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol               | 7.39  | 94  | 192266  | 48.57  | ng/ul 100 |
| 11) 2-Methylphenol      | 8.66  | 108 | 273839  | 93.54  | ng/ul 99  |
| 14) Acetophenone        | 9.04  | 105 | 60829   | 12.24  | ng/ul 89  |
| 16) 4-Methylphenol      | 9.00  | 108 | 545583  | 170.66 | ng/ul 98  |
| 24) 2,4-Dimethylphenol  | 10.24 | 107 | 534850m | 116.38 | ng/ul     |
| 28) Naphthalene         | 11.09 | 128 | 323889  | 36.46  | ng/ul 97  |
| 34) 2-Methylnaphthalene | 12.68 | 142 | 165344  | 23.16  | ng/ul 96  |
| 35) 1-Methylnaphthalene | 12.90 | 142 | 103904  | 15.38  | ng/ul# 96 |
| 41) 1,1'-Biphenyl       | 13.67 | 154 | 54977   | 5.68   | ng/ul# 87 |
| 48) Acenaphthylene      | 14.56 | 152 | 20450   | 1.60   | ng/ul# 77 |
| 50) Acenaphthene        | 14.90 | 153 | 15750   | 1.82   | ng/ul# 88 |
| 54) Dibenzofuran        | 15.23 | 168 | 79318   | 6.22   | ng/ul 89  |
| 59) Fluorene            | 15.88 | 166 | 57555   | 5.18   | ng/ul# 84 |
| 70) Phenanthrene        | 17.62 | 178 | 113302  | 6.73   | ng/ul# 91 |
| 72) Anthracene          | 17.71 | 178 | 23731   | 1.38   | ng/ul# 77 |
| 77) Fluoranthene        | 19.62 | 202 | 34245   | 1.57   | ng/ul# 97 |
| 80) Pyrene              | 19.98 | 202 | 37346   | 1.64   | ng/ul# 91 |

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

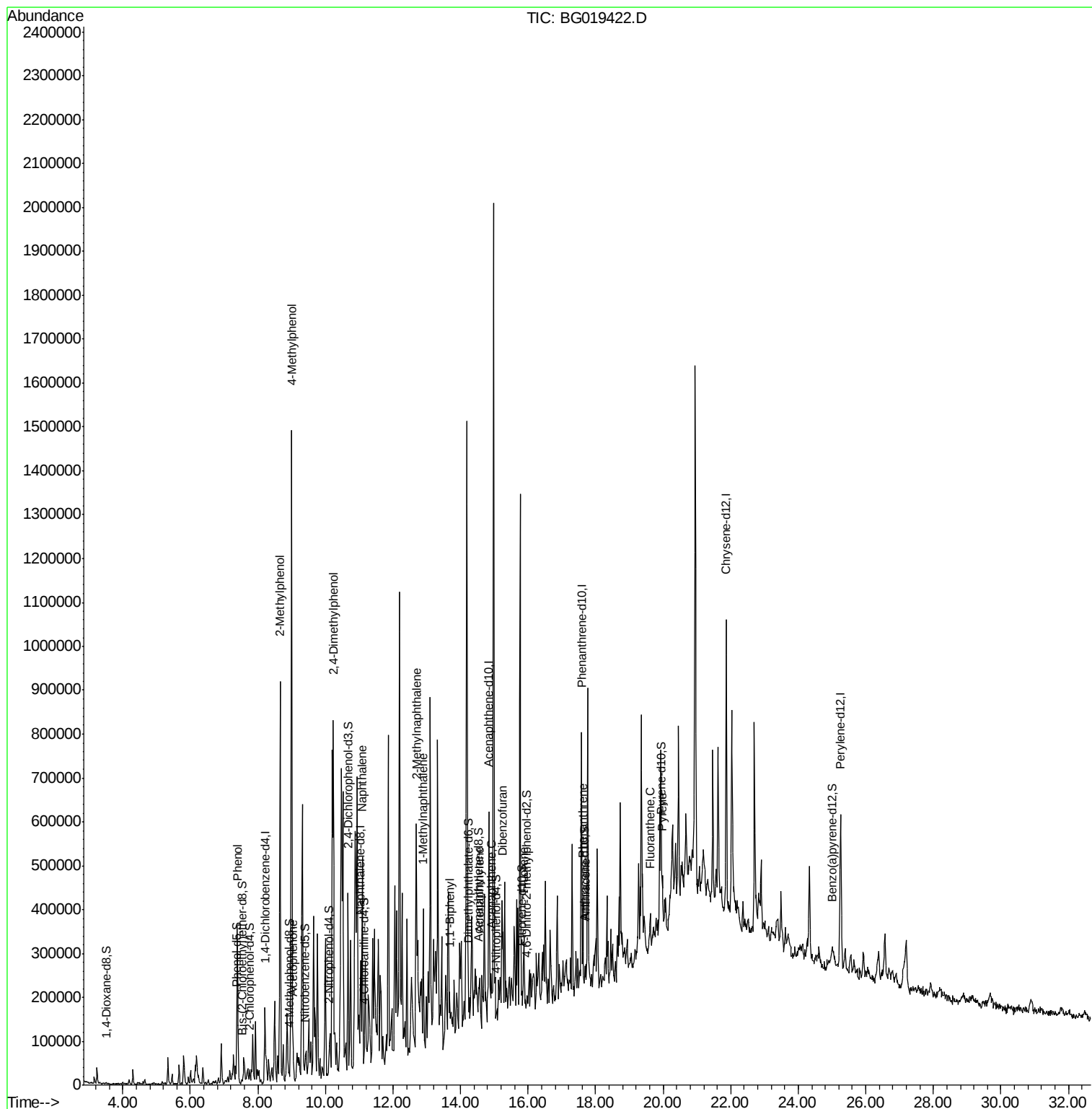
Data Path : Z:\HPCHEM1\BNA G\DATA\BG102815\  
Data File : BG019422.D  
Acq On : 29 Oct 2015 18:06  
Operator : UM/NP  
Sample : G3996-18DL 25X  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

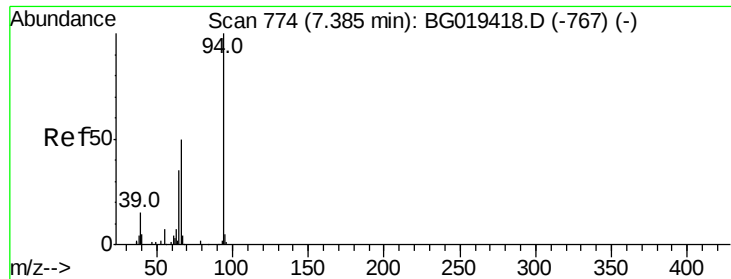
Instrument :  
BNA\_G  
ClientSampleId :  
E5LK7DL

Manual Integrations  
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10/30/2015 6:32:30 PM

Quant Time: Oct 30 06:17:18 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102815.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Oct 30 04:25:10 2015  
Response via : Initial Calibration





#6

Phenol

Concen: 48.57 ng/ul

RT: 7.39 min Scan# 775

Delta R.T. 0.01 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

Instrument :

BNA\_G

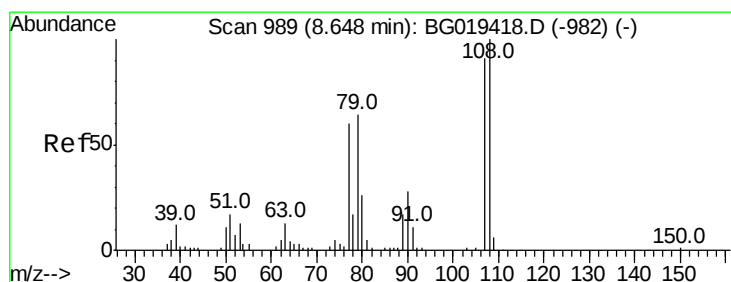
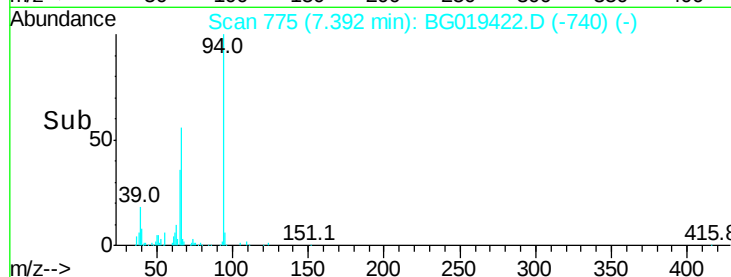
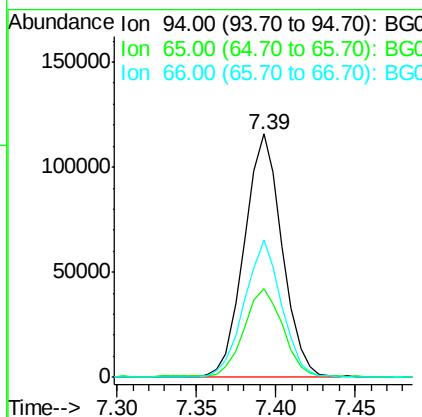
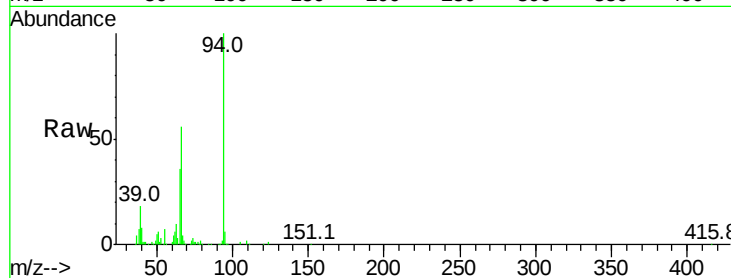
ClientSampleId :

E5LK7DL

Manual Integrations  
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10/30/2015 6:32:30 PM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 36.5  | 29.3  | 43.9  |
| 66      | 56.2  | 45.0  | 67.6  |



#11

2-Methylphenol

Concen: 93.54 ng/ul

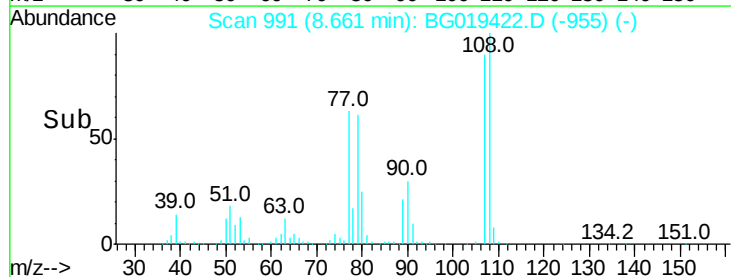
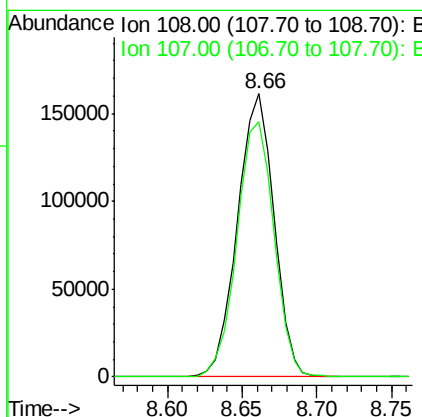
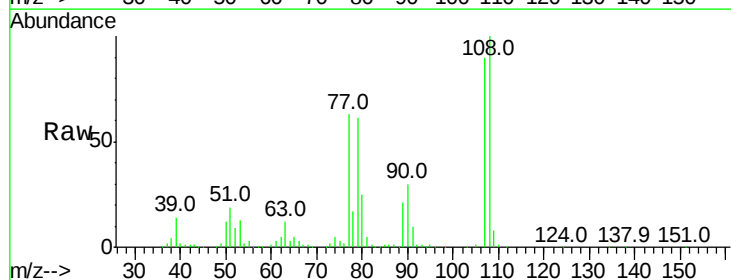
RT: 8.66 min Scan# 991

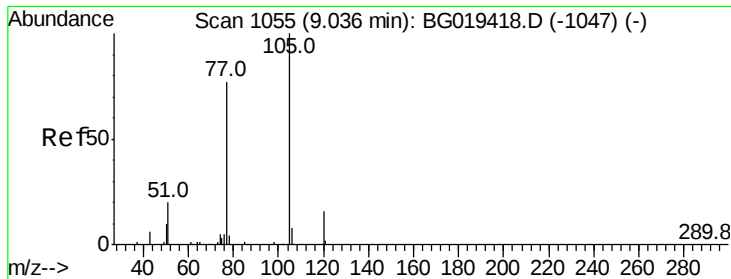
Delta R.T. 0.01 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 90.2  | 71.2  | 106.8 |





#14

Acetophenone

Concen: 12.24 ng/ul

RT: 9.04 min Scan# 1056

Delta R.T. 0.01 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

Instrument :

BNA\_G

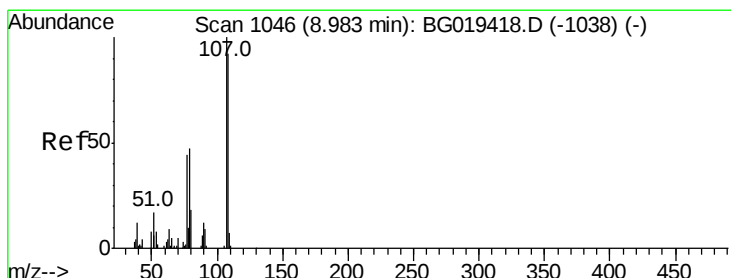
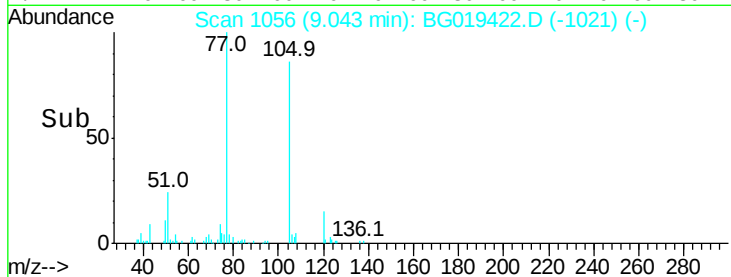
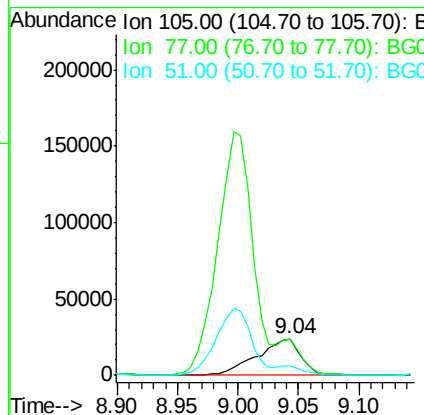
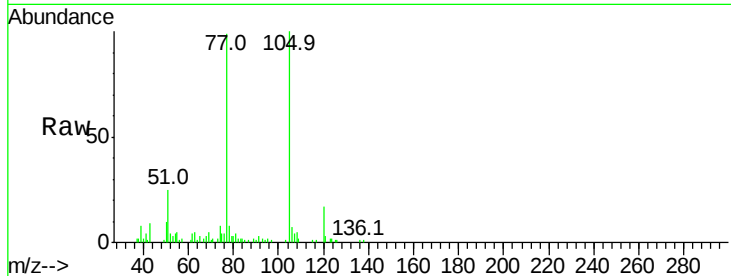
ClientSampleId :

E5LK7DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 60829 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 77        | 98.9  | 69.5  | 104.3 |
| 51        | 25.0  | 21.8  | 32.6  |

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#16

4-Methylphenol

Concen: 170.66 ng/ul

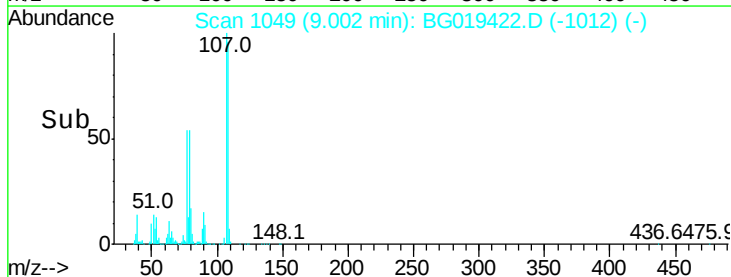
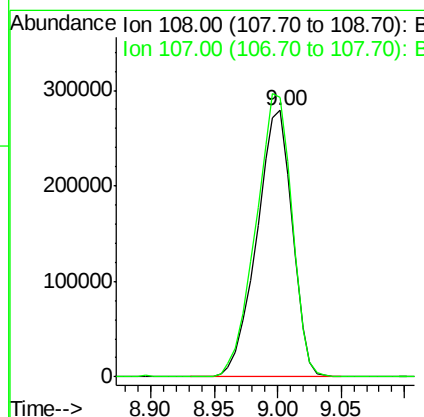
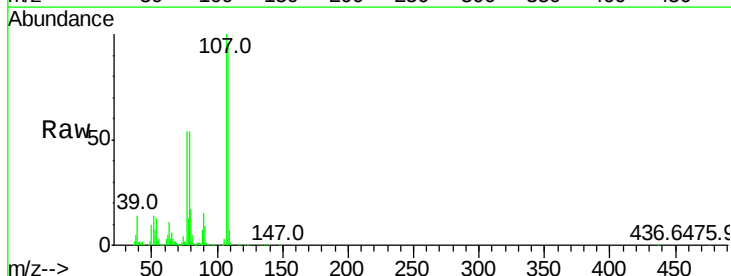
RT: 9.00 min Scan# 1049

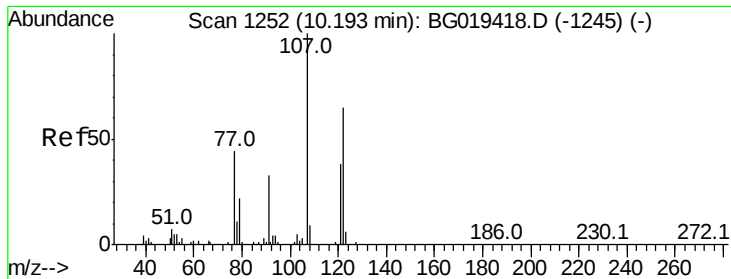
Delta R.T. 0.02 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 545583 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 104.7 | 85.4  | 128.2  |





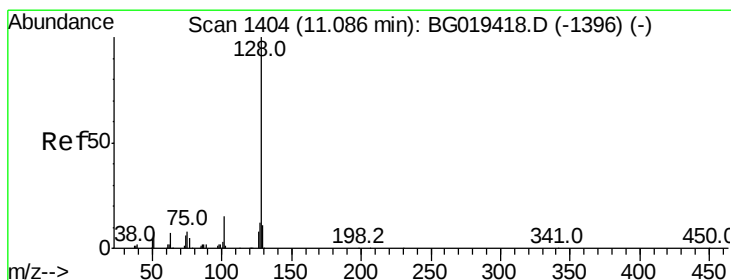
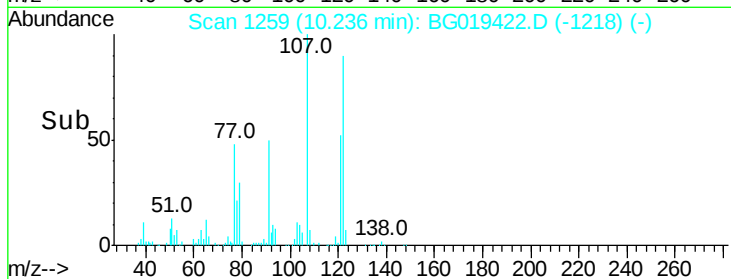
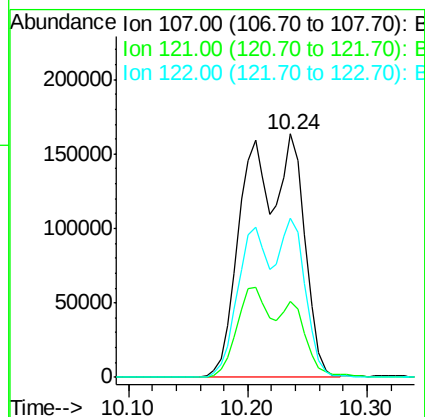
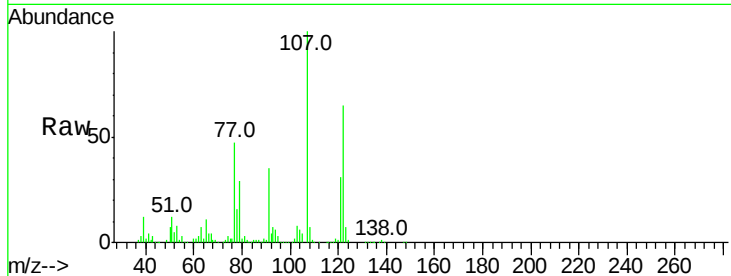
#24  
2,4-Dimethylphenol  
Concen: 116.38 ng/ul m  
RT: 10.24 min Scan# 1259  
Delta R.T. 0.04 min  
Lab File: BG019422.D  
Acq: 29 Oct 2015 18:06

Instrument :  
BNA\_G  
ClientSampleId :  
E5LK7DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 107     | 100   |            |       |
| 121     | 31.0  | 33.0       | 49.4# |
| 122     | 65.2  | 54.2       | 81.2  |

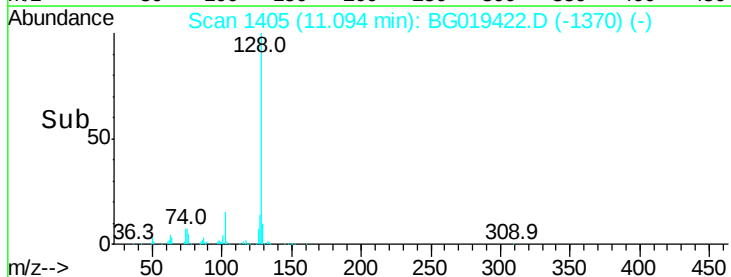
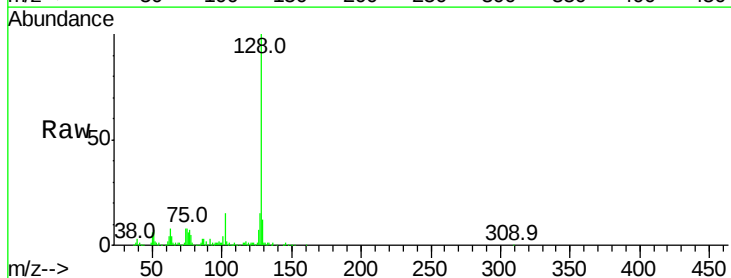
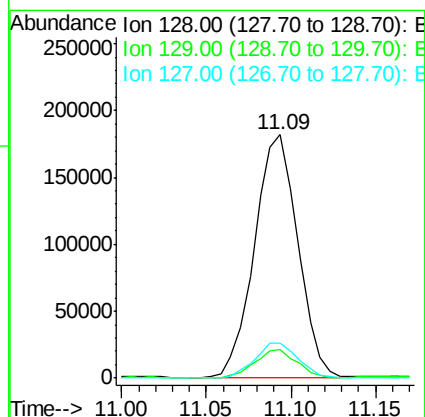
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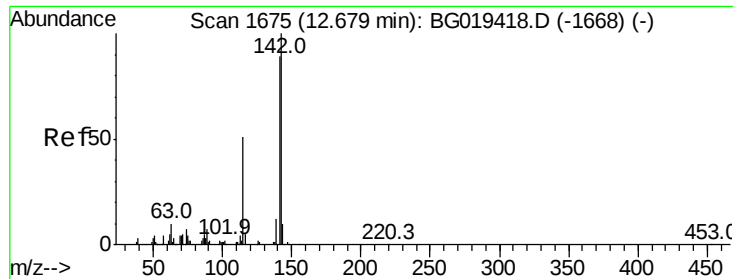
Mmdadoda  
10/30/2015 6:32:30 PM



#28  
Naphthalene  
Concen: 36.46 ng/ul  
RT: 11.09 min Scan# 1405  
Delta R.T. 0.01 min  
Lab File: BG019422.D  
Acq: 29 Oct 2015 18:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 128     | 100   |            |       |
| 129     | 11.8  | 8.9        | 13.3  |
| 127     | 14.5  | 13.1       | 19.7  |





#34

2-Methylnaphthalene

Concen: 23.16 ng/ul

RT: 12.68 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

Instrument :

BNA\_G

ClientSampleId :

E5LK7DL

Tot Ion:142 Resp: 165344

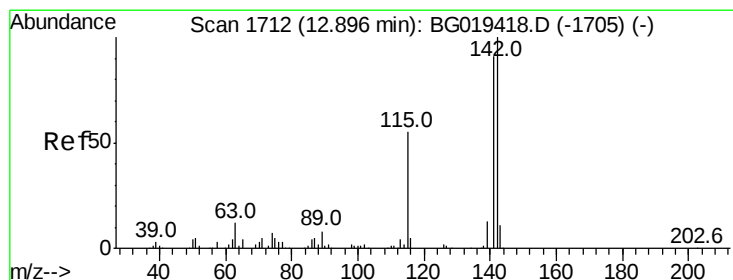
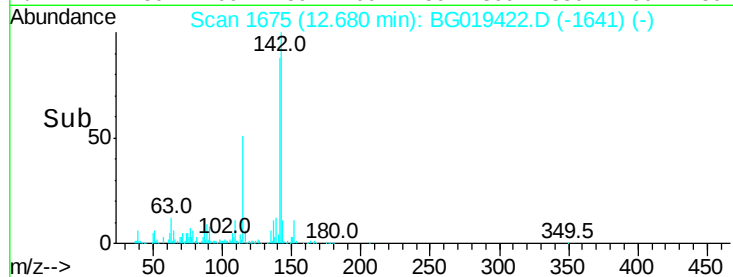
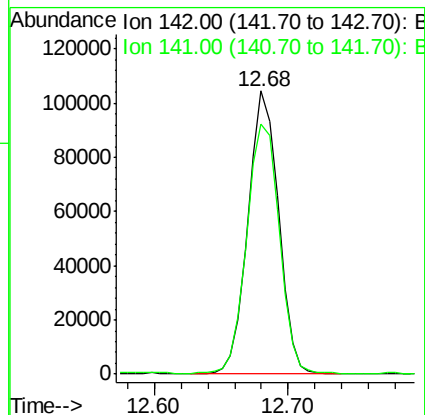
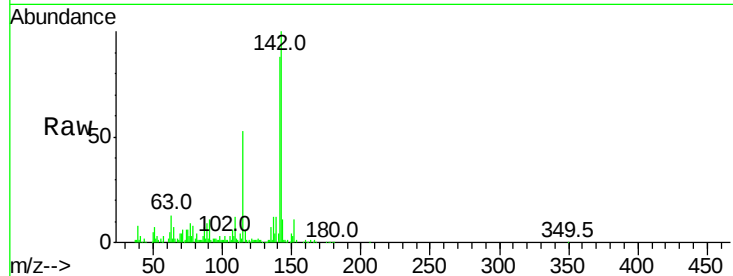
Ion Ratio Lower Upper

142 100

141 88.2 73.4 110.2

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#35

1-Methylnaphthalene

Concen: 15.38 ng/ul

RT: 12.90 min Scan# 1712

Delta R.T. 0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

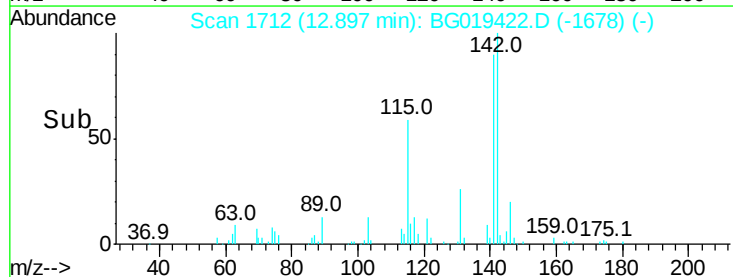
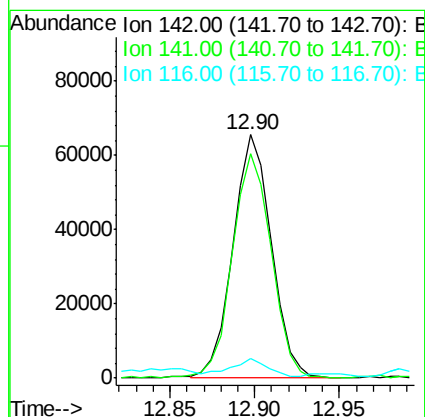
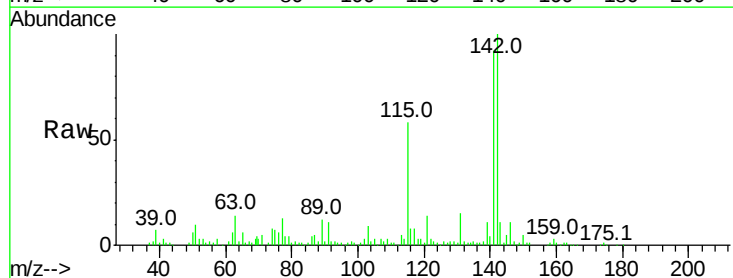
Tgt Ion:142 Resp: 103904

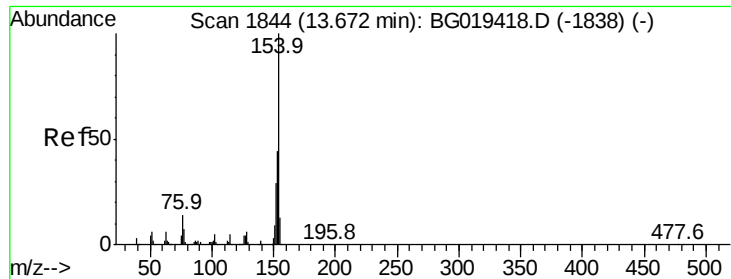
Ion Ratio Lower Upper

142 100

141 92.2 76.5 114.7

116 8.3 5.4 8.0#





#41

1,1'-Biphenyl

Concen: 5.68 ng/ul

RT: 13.67 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

Instrument :

BNA\_G

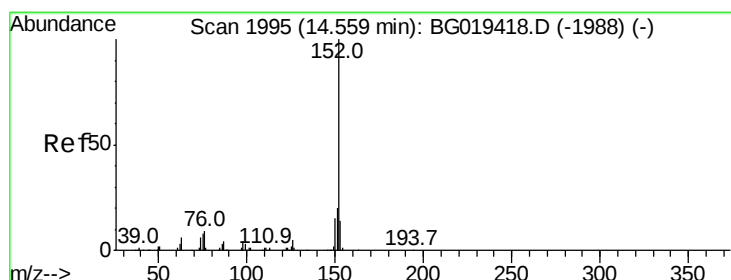
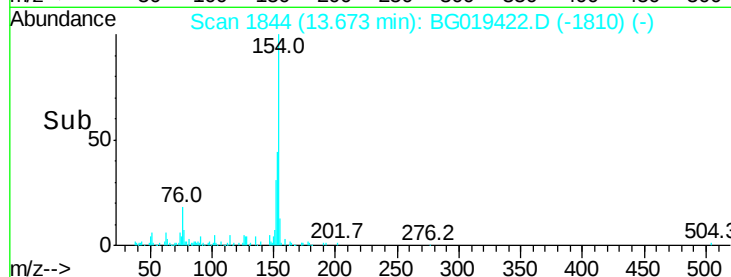
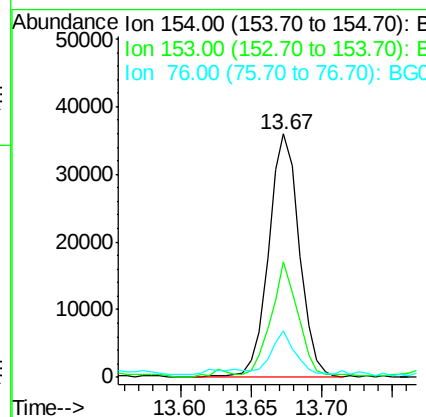
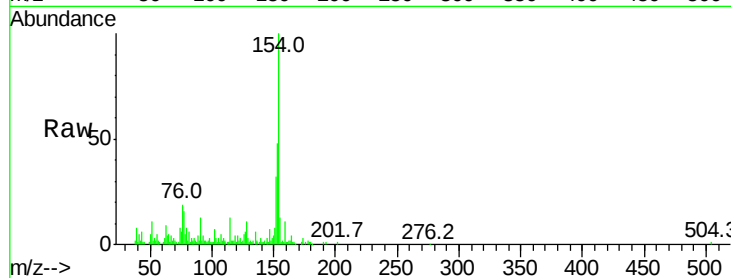
ClientSampleId :

E5LK7DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 54977 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 47.6  | 32.8  | 49.2  |
| 76        | 18.9  | 7.7   | 11.5# |

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#48

Acenaphthylene

Concen: 1.60 ng/ul

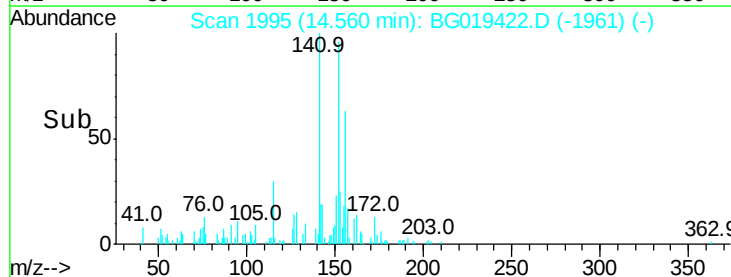
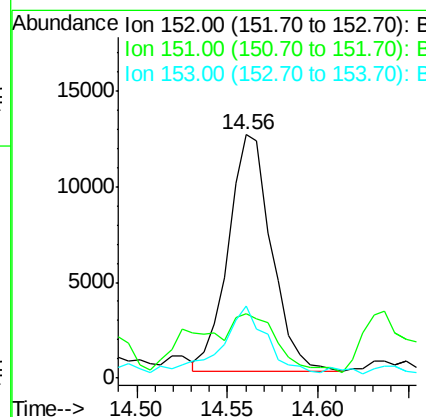
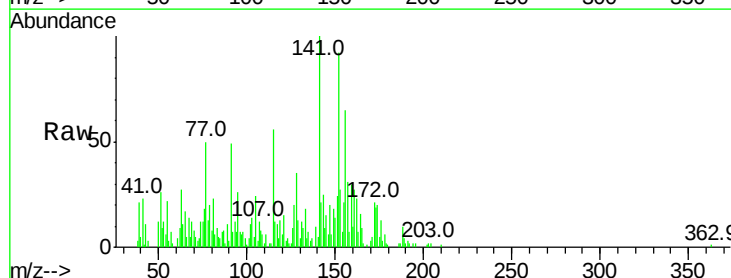
RT: 14.56 min Scan# 1995

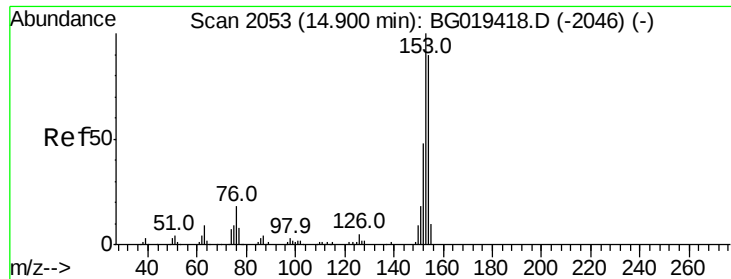
Delta R.T. 0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 20450 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 26.4  | 16.9  | 25.3# |
| 153       | 29.8  | 10.8  | 16.2# |





#50

Acenaphthene

Concen: 1.82 ng/ul

RT: 14.90 min Scan# 2053

Delta R.T. 0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

Instrument :

BNA\_G

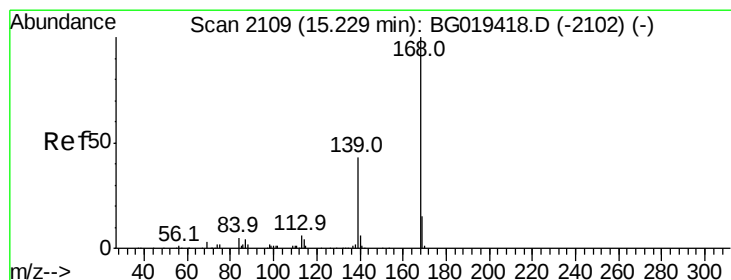
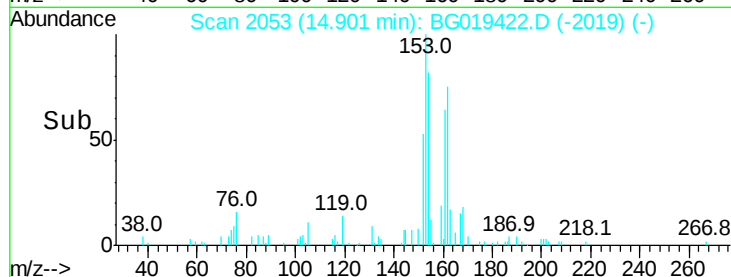
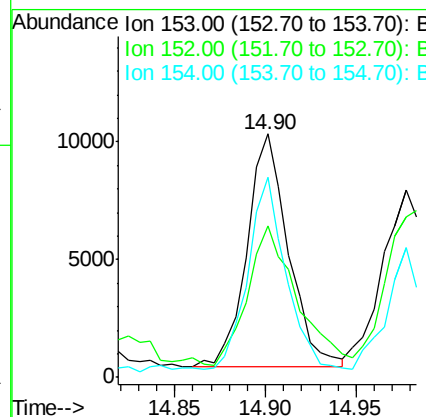
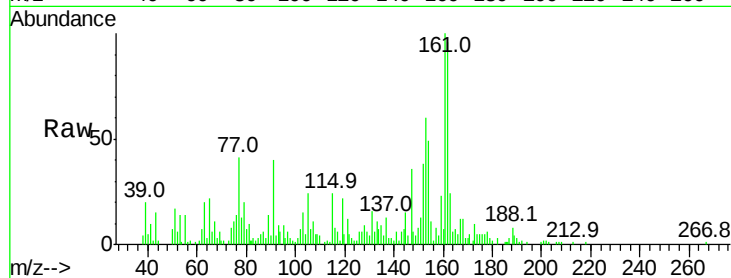
ClientSampleId :

E5LK7DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 15750 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 62.5  | 38.8  | 58.2# |
| 154       | 82.1  | 71.5  | 107.3 |

Manual Integrations  
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#54

Dibenzofuran

Concen: 6.22 ng/ul

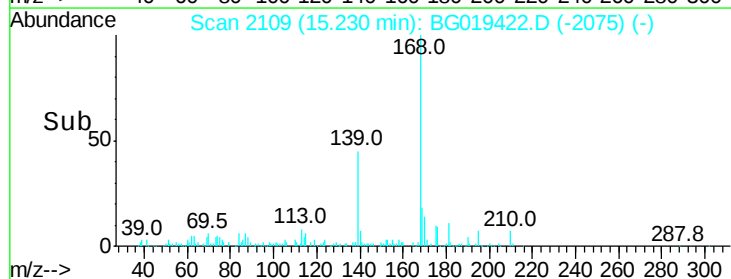
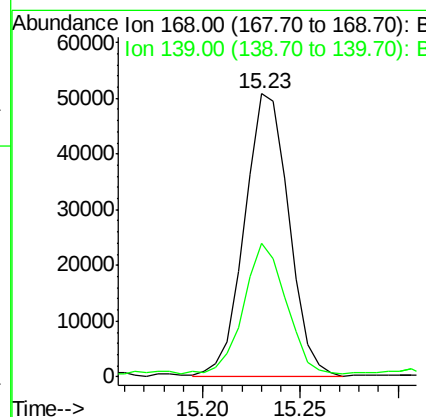
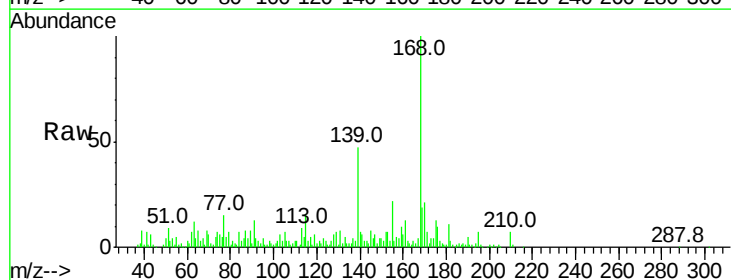
RT: 15.23 min Scan# 2109

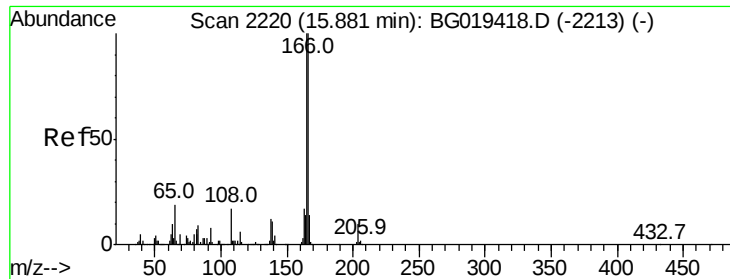
Delta R.T. 0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 79318 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 47.0  | 32.4  | 48.6  |





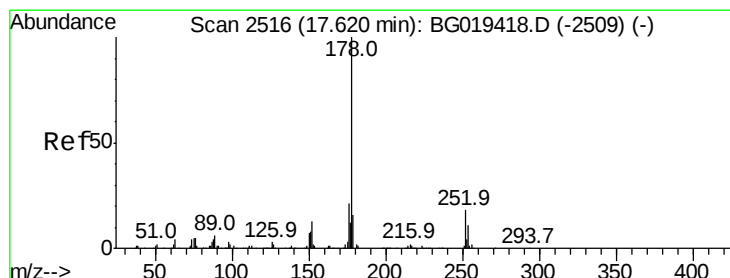
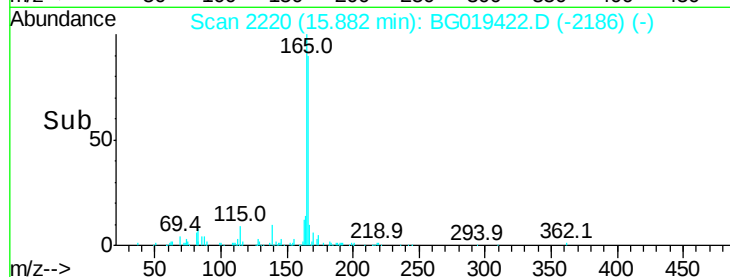
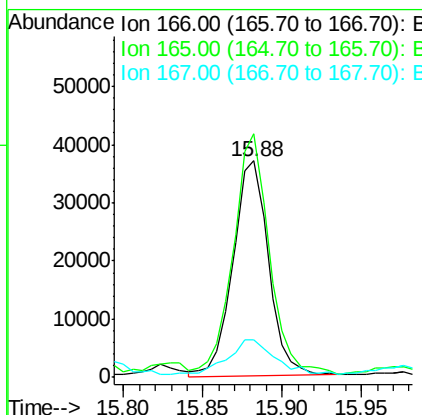
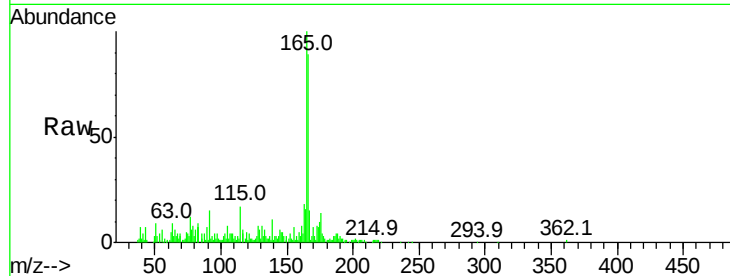
#59  
**Fluorene**  
 Concen: 5.18 ng/ul  
 RT: 15.88 min Scan# 2220  
 Delta R.T. 0.00 min  
 Lab File: BG019422.D  
 Acq: 29 Oct 2015 18:06

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E5LK7DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 112.7 | 77.6  | 116.4 |
| 167     | 17.4  | 9.6   | 14.4  |

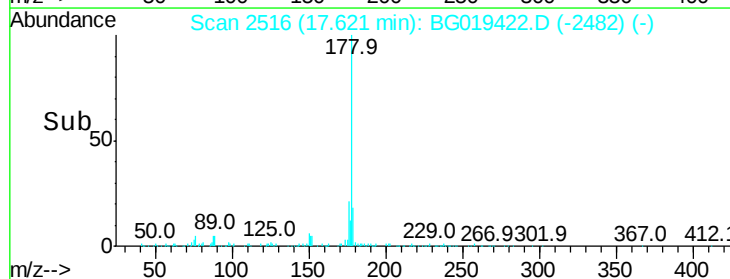
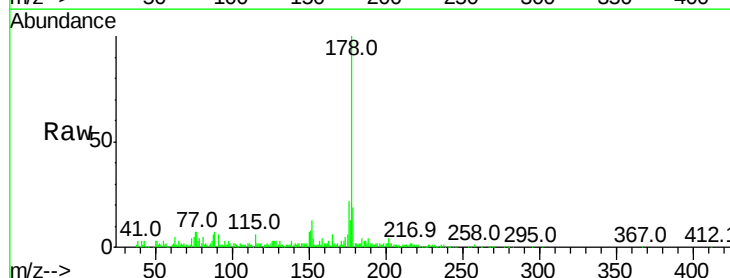
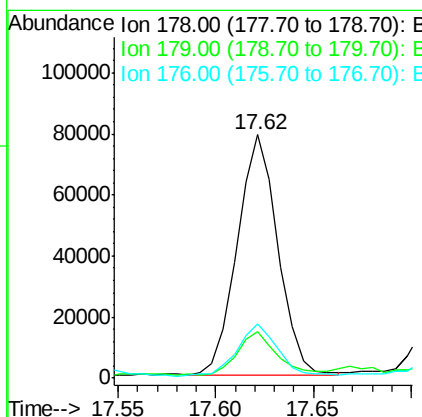
Manual Integrations  
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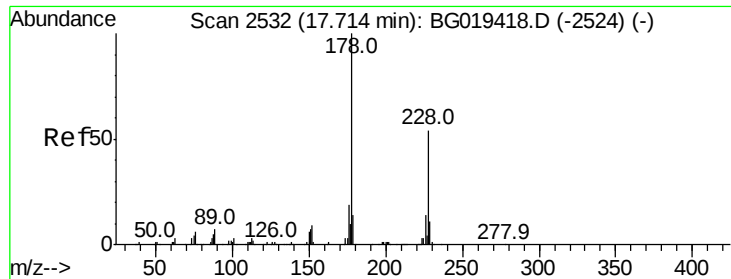
Mmdadoda  
 10/30/2015 6:32:30 PM



#70  
**Phenanthrene**  
 Concen: 6.73 ng/ul  
 RT: 17.62 min Scan# 2516  
 Delta R.T. 0.00 min  
 Lab File: BG019422.D  
 Acq: 29 Oct 2015 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.9  | 12.6  | 18.8  |
| 176     | 22.3  | 14.3  | 21.5  |





#72

Anthracene

Concen: 1.38 ng/ul

RT: 17.71 min Scan# 2531

Delta R.T. -0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

Instrument :

BNA\_G

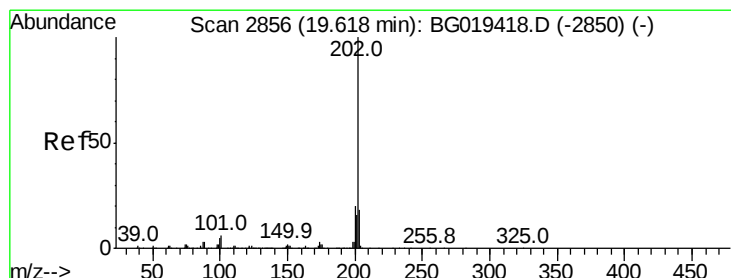
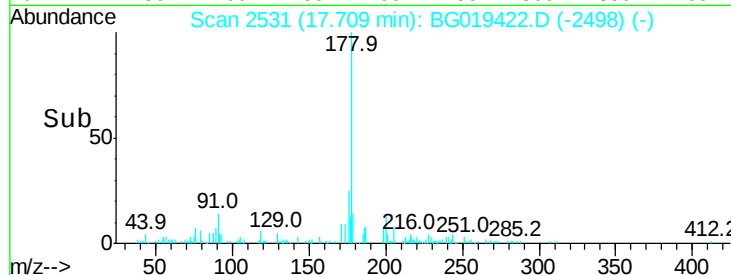
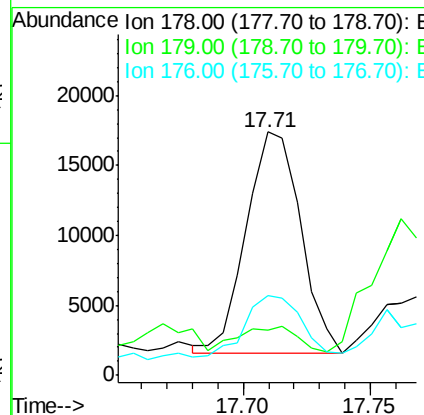
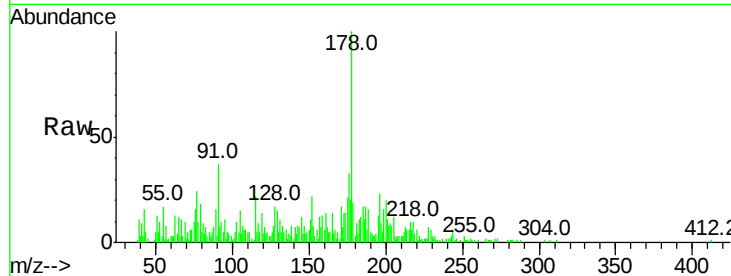
ClientSampleId :

E5LK7DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.7  | 11.6  | 17.4# |
| 176     | 32.9  | 14.2  | 21.4# |

Manual Integrations  
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10/30/2015 6:32:30 PM



#77

Fluoranthene

Concen: 1.57 ng/ul

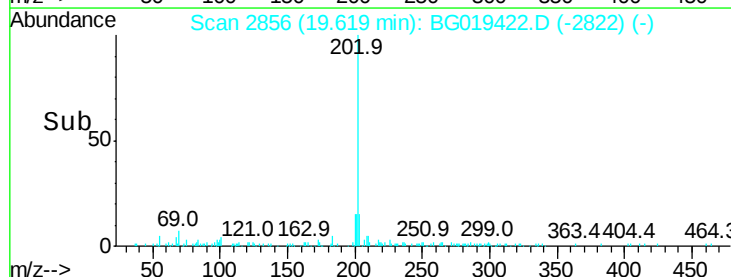
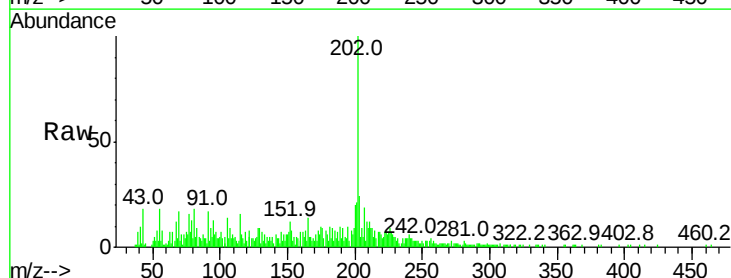
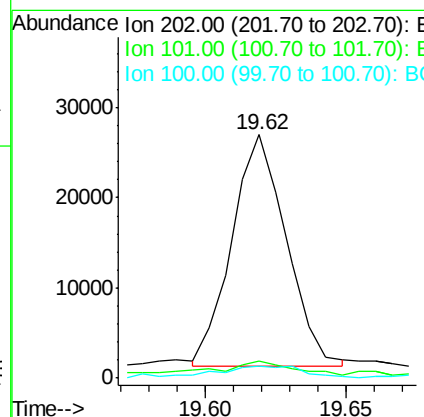
RT: 19.62 min Scan# 2856

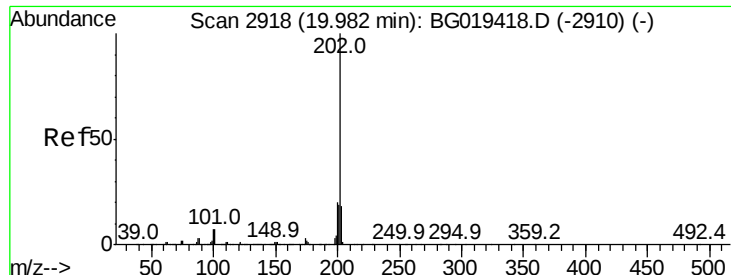
Delta R.T. 0.00 min

Lab File: BG019422.D

Acq: 29 Oct 2015 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 6.9   | 4.0   | 6.0#  |
| 100     | 4.8   | 3.6   | 5.4   |





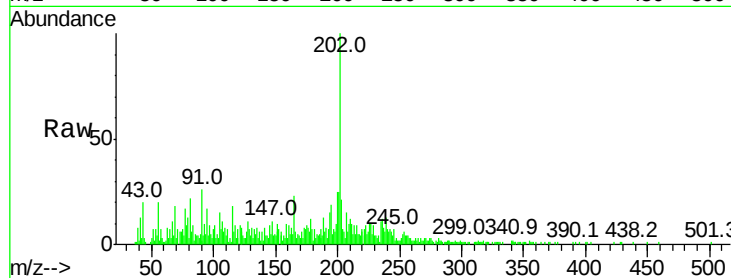
#80  
 Pvrene  
 Concen: 1.64 ng/ul  
 RT: 19.98 min Scan# 2917  
 Delta R.T. -0.00 min  
 Lab File: BG019422.D  
 Acq: 29 Oct 2015 18:06

Instrument :  
 BNA\_G  
 ClientSampleId :  
 E5LK7DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 37346 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.8   | 4.3   | 6.5#  |
| 100       | 7.3   | 3.6   | 5.4#  |

Manual Integrations  
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 10/30/2015 6:32:30 PM



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

