

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121016\  
 Data File : BG025095.D  
 Acq On : 11 Dec 2016 9:00  
 Operator : UM/SJ  
 Sample : H5905-12  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DA812

Manual Integrations  
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Sohil  
 12/12/2016 4:30:02 PM

Quant Time: Dec 12 07:49:04 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Dec 12 06:35:19 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 92654    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 381680   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 327365   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 713339   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.89 | 240  | 816447   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.30 | 264  | 852046   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.59  | 96  | 10694   | 5.96  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.38  | 99  | 255268  | 31.93 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 172674  | 34.92 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 176277  | 31.54 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.93  | 113 | 220716  | 33.04 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 97603   | 36.11 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 118229  | 35.09 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.68 | 165 | 204707  | 31.59 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 157228  | 24.69 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 723138  | 32.11 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 785490  | 31.85 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.06 | 143 | 102499  | 26.49 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.84 | 176 | 653431  | 30.83 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.96 | 200 | 146325  | 33.18 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.70 | 188 | 976297  | 32.43 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.97 | 212 | 1105665 | 32.88 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.07 | 264 | 1120742 | 32.46 | ng/ul | 0.00  |

## Target Compounds

|                                |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 6) Phenol                      | 7.41  | 94  | 50217   | 6.12  | ng/ul  | 92     |
| 28) Naphthalene                | 11.11 | 128 | 38464   | 2.17  | ng/ul  | 95     |
| 34) 2-Methylnaphthalene        | 12.70 | 142 | 44674   | 3.19  | ng/ul  | 96     |
| 44) Dimethylphthalate          | 14.30 | 163 | 300053  | 13.56 | ng/ul  | 96     |
| 53) Dibenzofuran               | 15.25 | 168 | 32561   | 1.25  | ng/ul# | 80     |
| 69) Phenanthrene               | 17.64 | 178 | 170779  | 5.02  | ng/ul  | 97     |
| 74) Fluoranthene               | 19.63 | 202 | 327185  | 8.09  | ng/ul  | 99     |
| 77) Pyrene                     | 20.00 | 202 | 286367  | 7.30  | ng/ul  | 96     |
| 78) Butylbenzylphthalate       | 20.85 | 149 | 29936   | 1.95  | ng/ul# | 82     |
| 80) Benzo(a)anthracene         | 21.86 | 228 | 226349  | 5.34  | ng/ul  | 95     |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149 | 398514  | 18.84 | ng/ul  | 100    |
| 82) Chrysene                   | 21.94 | 228 | 286321  | 7.22  | ng/ul  | 96     |
| 85) Benzo(b)fluoranthene       | 24.21 | 252 | 430190  | 10.18 | ng/ul  | 100    |
| 86) Benzo(k)fluoranthene       | 24.27 | 252 | 176808m | 4.40  | ng/ul  |        |
| 88) Benzo(a)pyrene             | 25.14 | 252 | 275185  | 6.77  | ng/ul  | 98     |
| 89) Indeno(1,2,3-cd)pyrene     | 29.21 | 276 | 242257  | 4.80  | ng/ul  | 96     |
| 91) Benzo(g,h,i)perylene       | 30.43 | 276 | 225648m | 5.36  | ng/ul  |        |

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

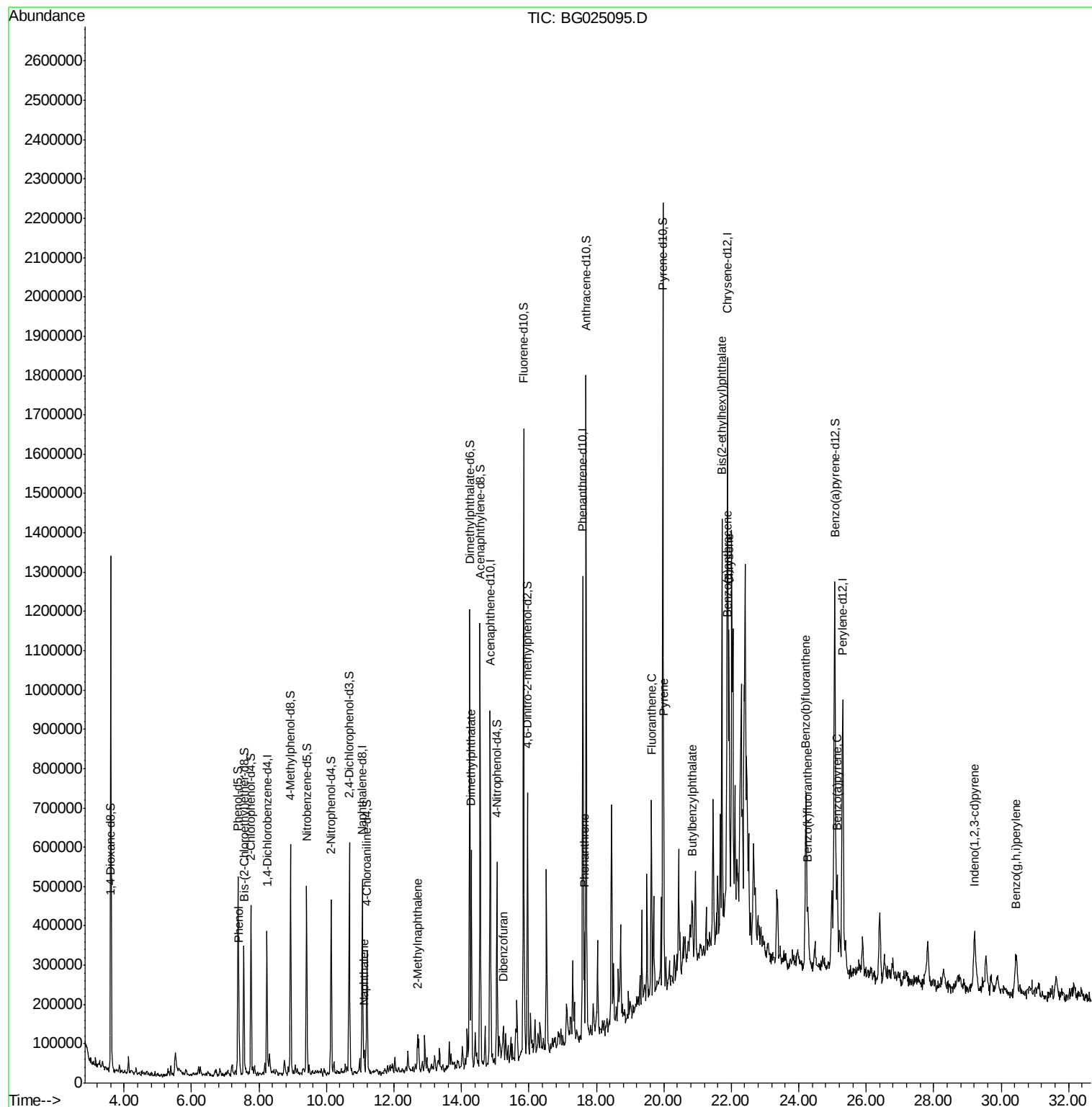
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121016\  
Data File : BG025095.D  
Acq On : 11 Dec 2016 9:00  
Operator : UM/SJ  
Sample : H5905-12  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

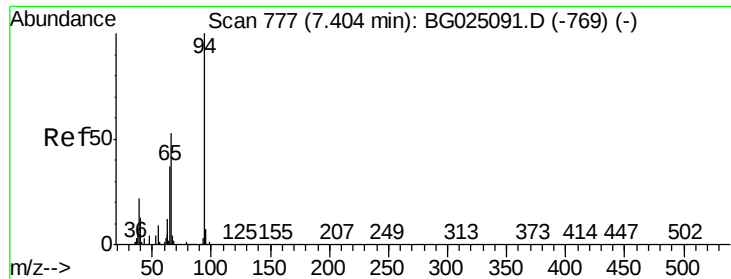
Instrument :  
BNA\_G  
ClientSampleId :  
DA812

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Quant Time: Dec 12 07:49:04 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Dec 12 06:35:19 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 6.12 ng/ul

RT: 7.41 min Scan# 777

Delta R.T. 0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

Instrument :

BNA\_G

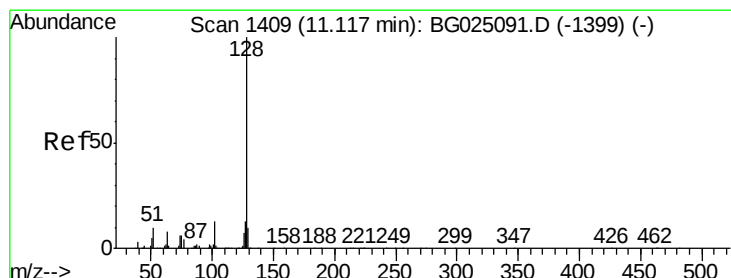
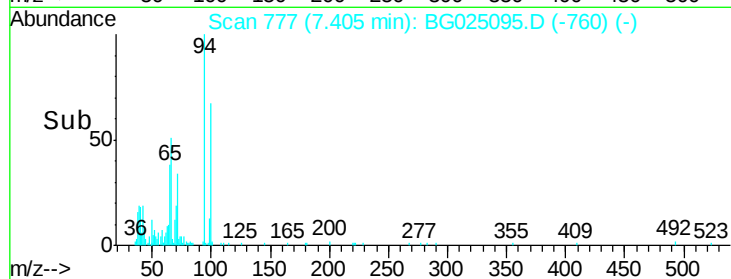
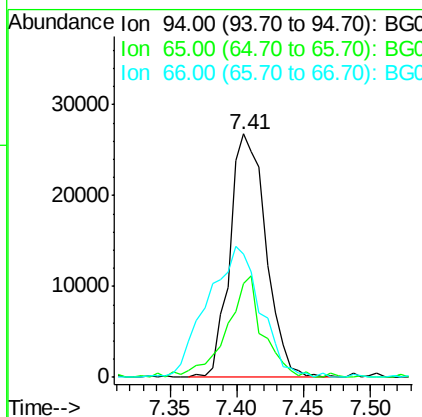
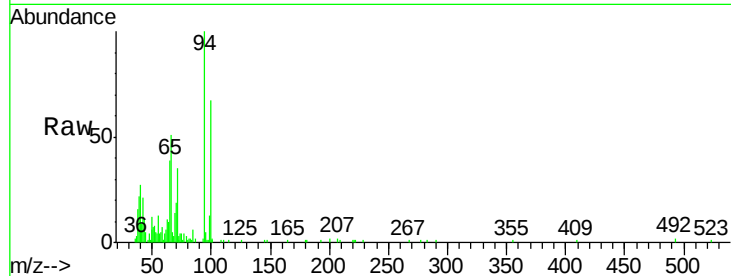
ClientSampleId :

DA812

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 50217 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 38.8  | 26.8  | 40.2  |
| 66        | 50.6  | 44.4  | 66.6  |

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#28

Naphthalene

Concen: 2.17 ng/ul

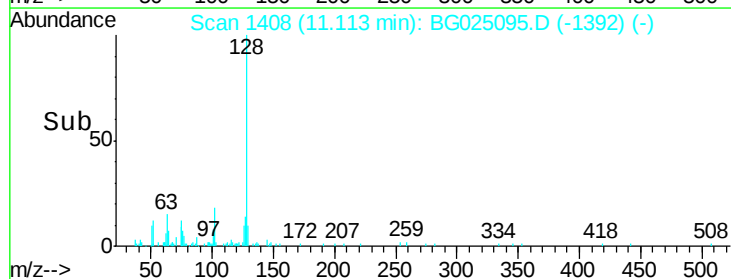
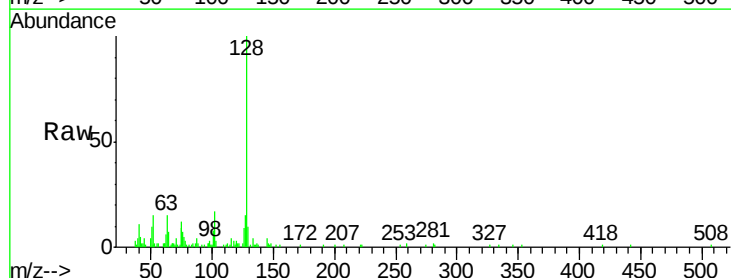
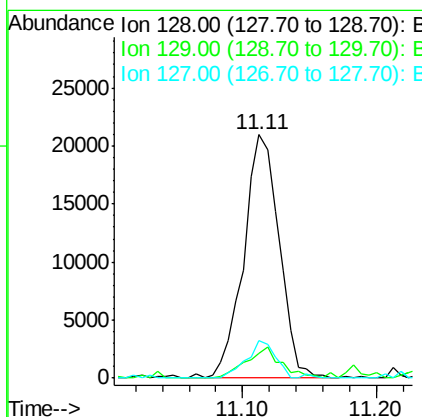
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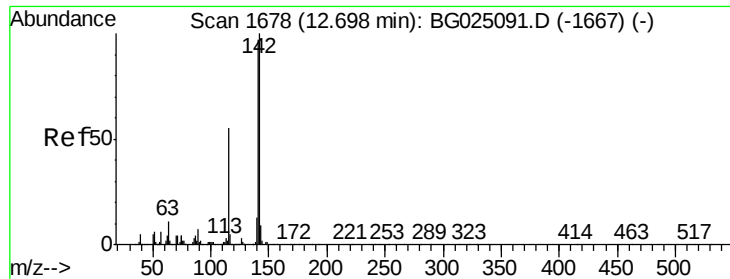
Delta R.T. -0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 38464 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 10.0  | 9.4   | 14.2  |
| 127       | 15.4  | 10.3  | 15.5  |





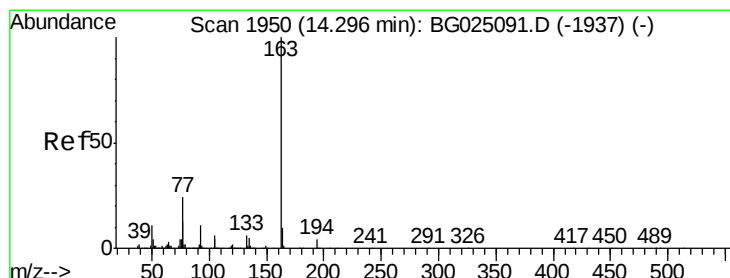
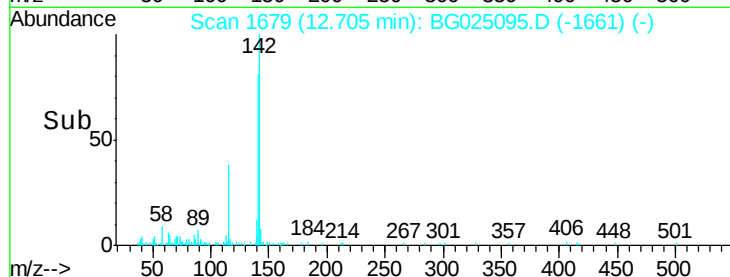
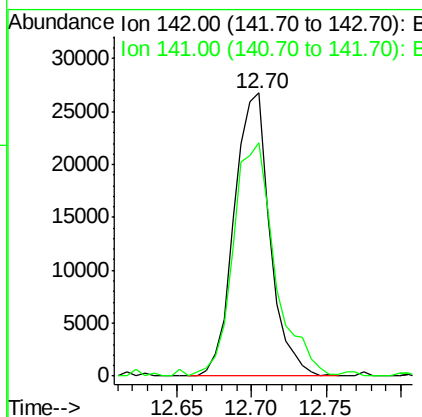
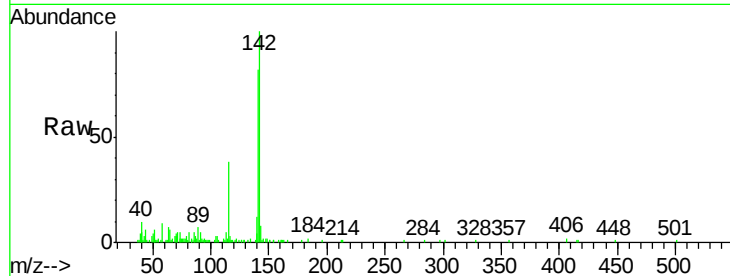
#34  
 2-Methylnaphthalene  
 Concen: 3.19 ng/ul  
 RT: 12.70 min Scan# 1679  
 Delta R.T. 0.01 min  
 Lab File: BG025095.D  
 Acq: 11 Dec 2016 9:00

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DA812

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 82.4  | 68.6  | 102.8 |

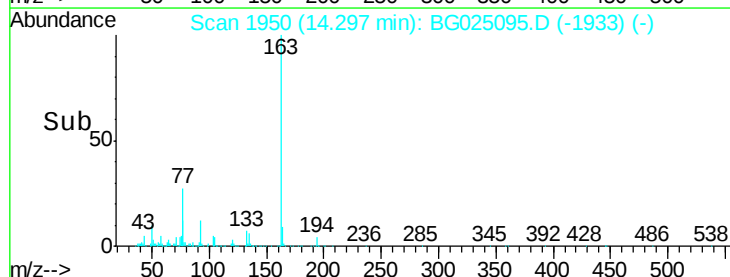
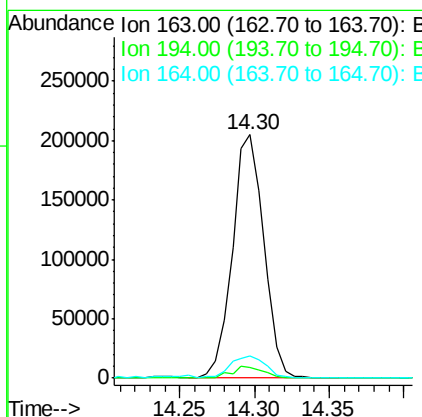
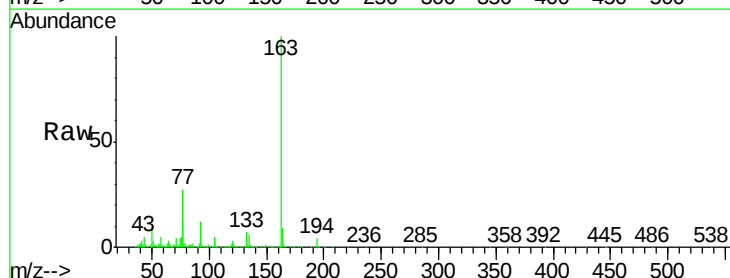
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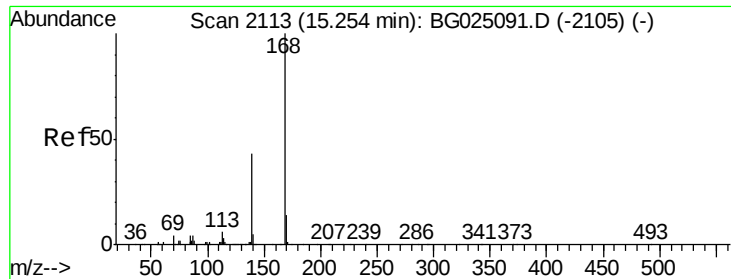
Sohil  
 12/12/2016 4:30:02 PM



#44  
 Dimethylphthalate  
 Concen: 13.56 ng/ul  
 RT: 14.30 min Scan# 1950  
 Delta R.T. 0.00 min  
 Lab File: BG025095.D  
 Acq: 11 Dec 2016 9:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.2   | 3.4   | 5.0   |
| 164     | 9.0   | 9.0   | 13.4  |





#53

Dibenzenofuran

Concen: 1.25 ng/ul

RT: 15.25 min Scan# 2112

Delta R.T. -0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

Instrument :

BNA\_G

ClientSampleId :

DA812

Tgt Ion:168 Resp: 32561

Ion Ratio Lower Upper

168 100

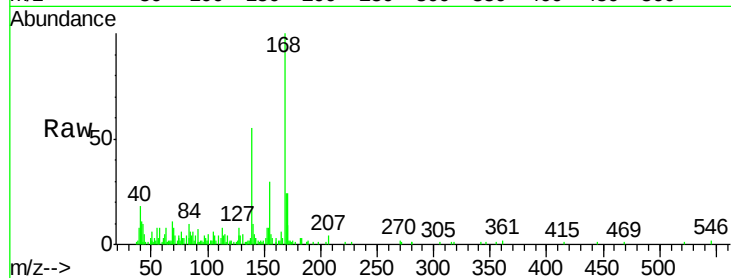
139 54.9 33.8 50.8#

Manual Integrations

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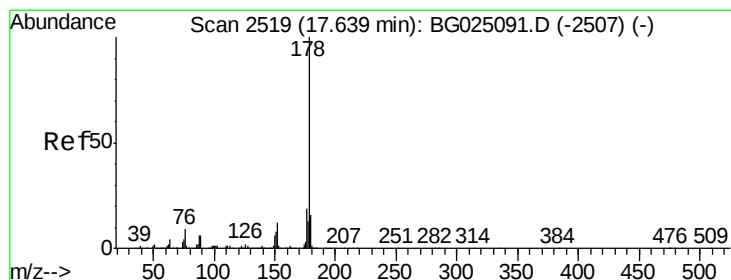
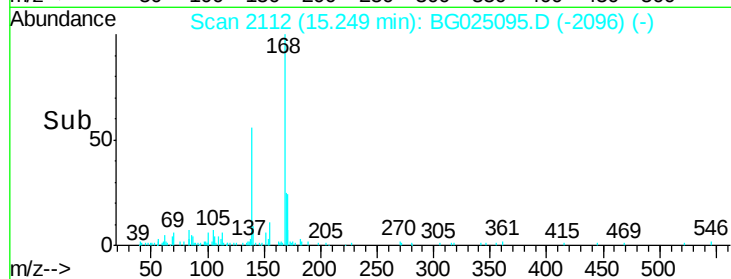
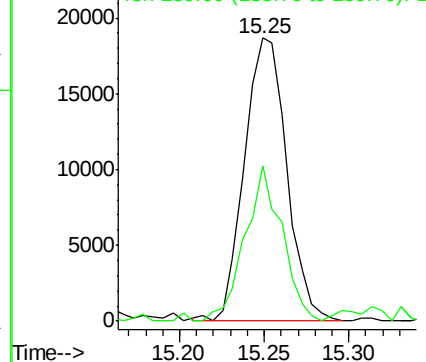
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#69

Phenanthrene

Concen: 5.02 ng/ul

RT: 17.64 min Scan# 2519

Delta R.T. 0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

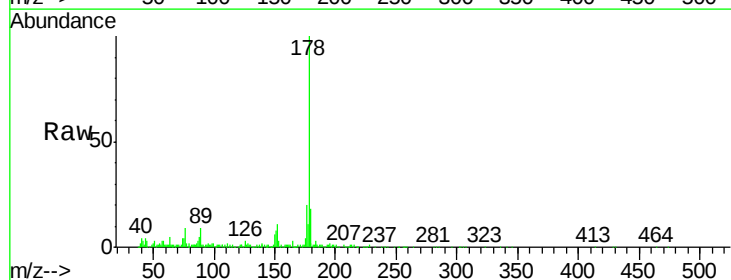
Tgt Ion:178 Resp: 170779

Ion Ratio Lower Upper

178 100

179 18.2 12.4 18.6

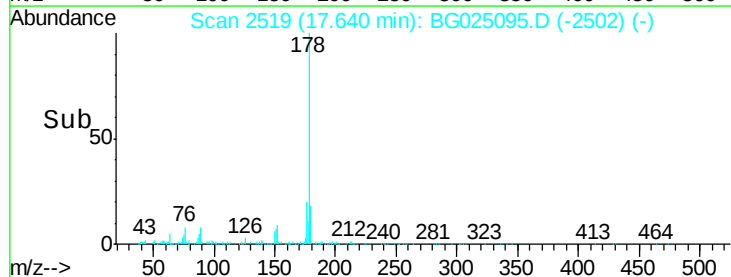
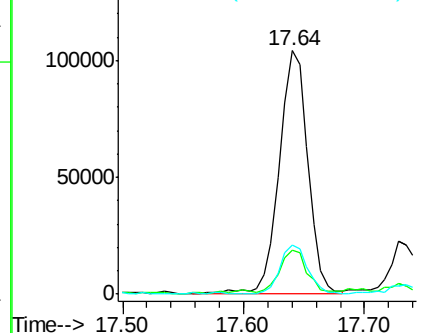
176 20.1 16.5 24.7

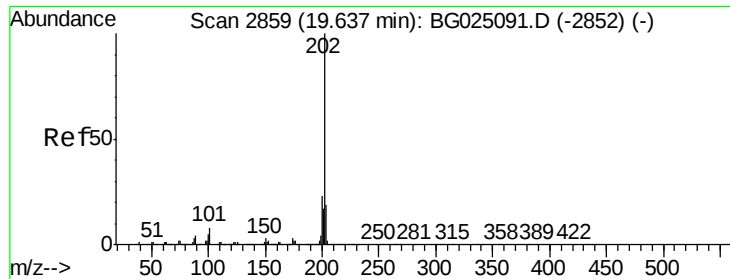


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Fluoranthene

Concen: 8.09 ng/ul

RT: 19.63 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

Instrument :

BNA\_G

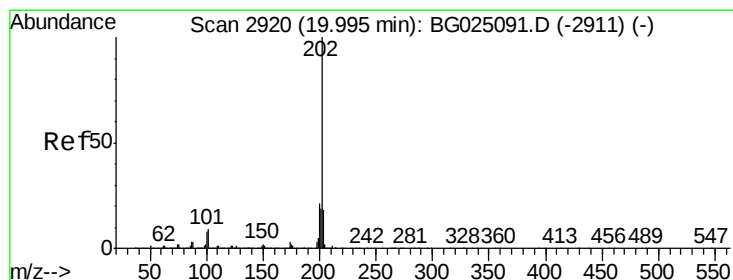
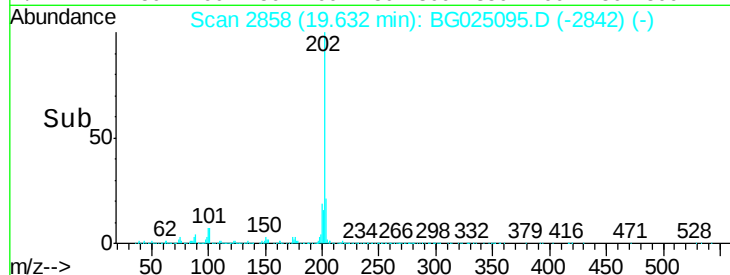
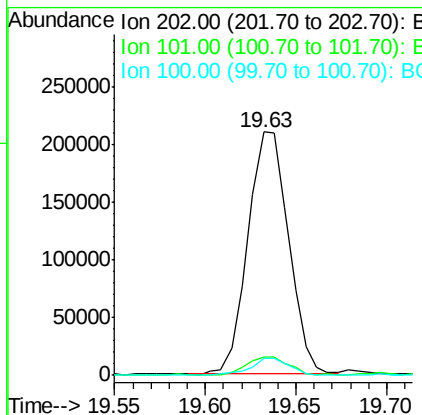
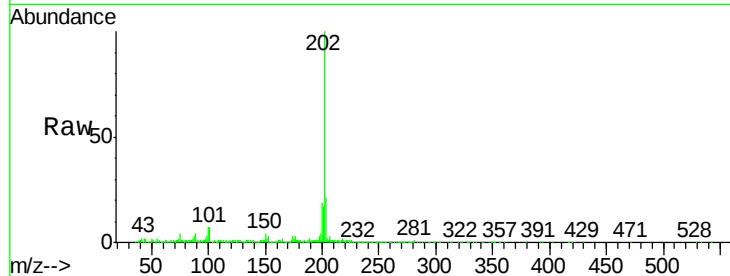
ClientSampleId :

DA812

| Tgt | Ion | Ratio | Resp   | Lower | Upper |
|-----|-----|-------|--------|-------|-------|
| 202 | 100 |       | 327185 |       |       |
| 101 | 7.5 | 6.2   | 9.2    |       |       |
| 100 | 7.1 | 5.2   | 7.8    |       |       |

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#77

Pyrene

Concen: 7.30 ng/ul

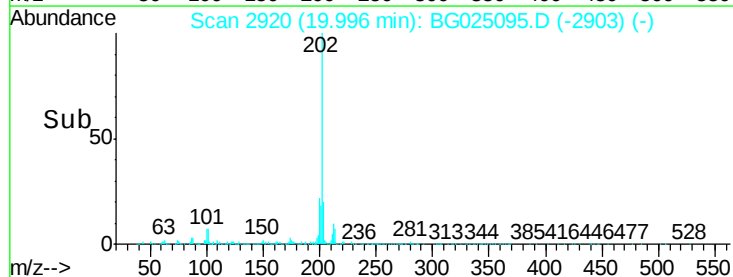
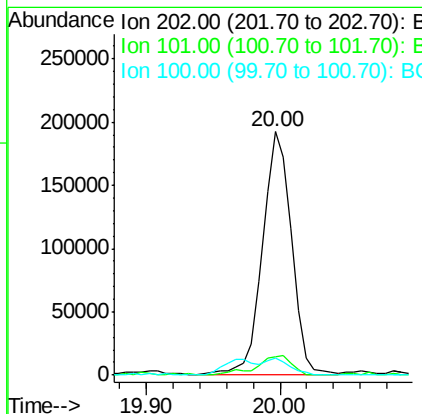
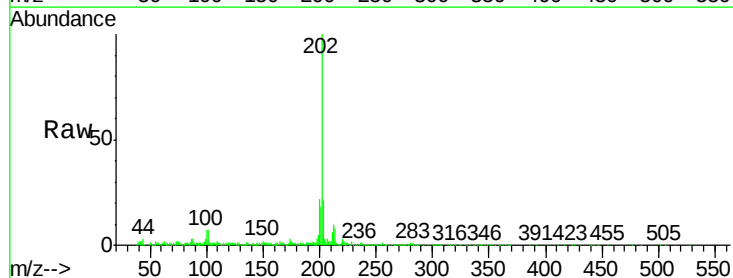
RT: 20.00 min Scan# 2920

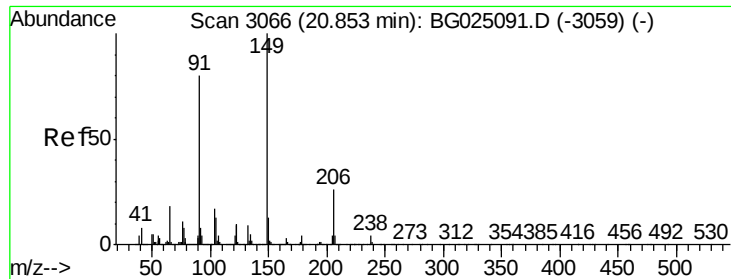
Delta R.T. 0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

| Tgt | Ion | Ratio | Resp   | Lower | Upper |
|-----|-----|-------|--------|-------|-------|
| 202 | 100 |       | 286367 |       |       |
| 101 | 7.3 | 6.9   | 10.3   |       |       |
| 100 | 6.8 | 6.6   | 10.0   |       |       |





#78

Butylbenzylphthalate

Concen: 1.95 ng/ul

RT: 20.85 min Scan# 3065

Delta R.T. -0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

Instrument :

BNA\_G

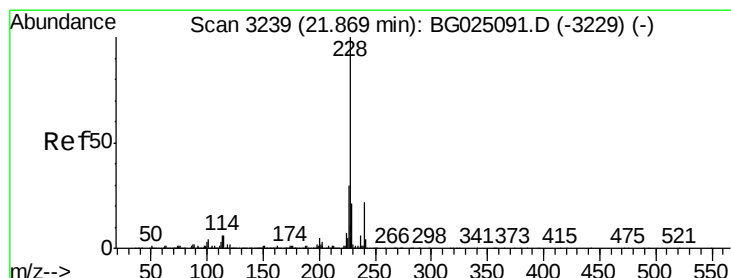
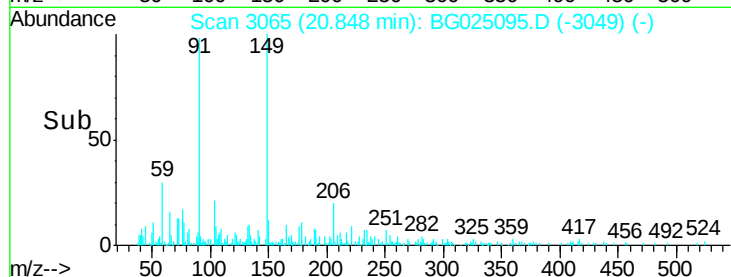
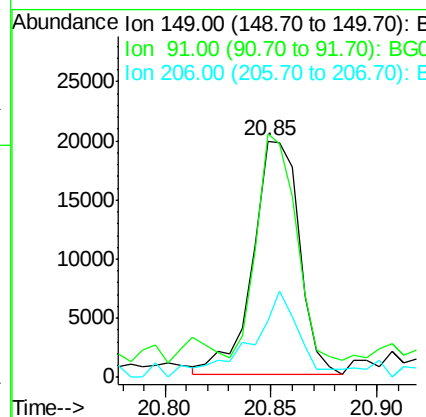
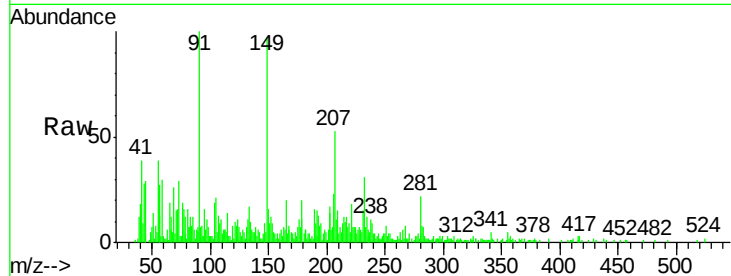
ClientSampleId :

DA812

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 29936 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 91        | 103.0 | 65.8  | 98.6# |
| 206       | 23.9  | 20.1  | 30.1  |

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#80

Benzo(a)anthracene

Concen: 5.34 ng/ul

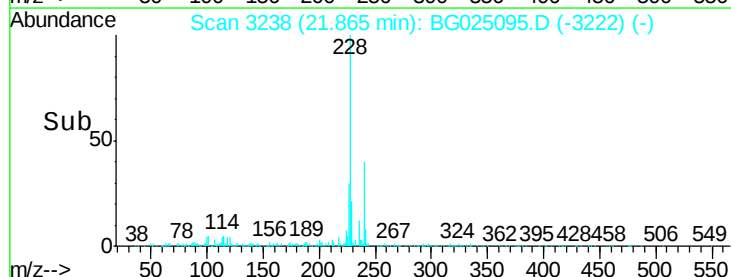
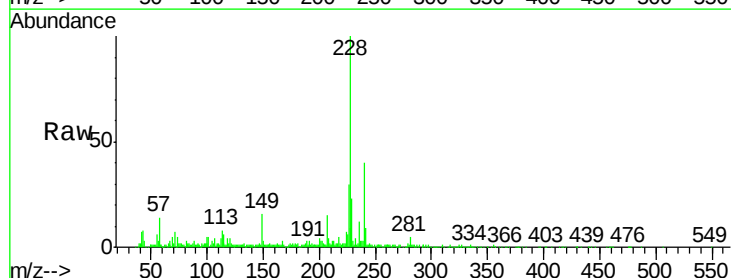
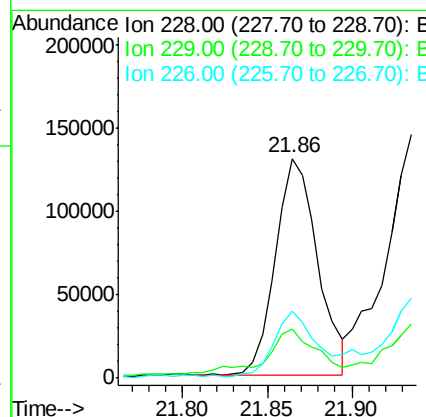
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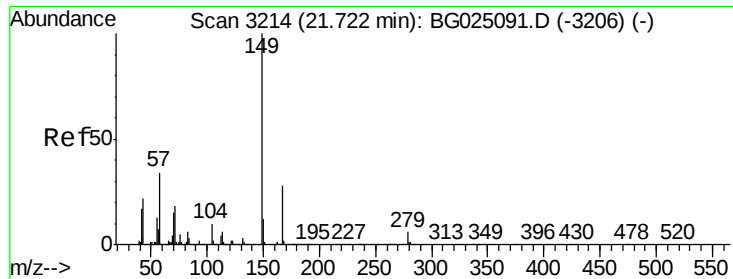
Delta R.T. -0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 226349 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 22.5  | 16.3  | 24.5   |
| 226       | 30.4  | 21.9  | 32.9   |





#81

Bis(2-ethylhexyl)phthalate

Concen: 18.84 ng/ul

RT: 21.72 min Scan# 3214

Delta R.T. 0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

Instrument :

BNA\_G

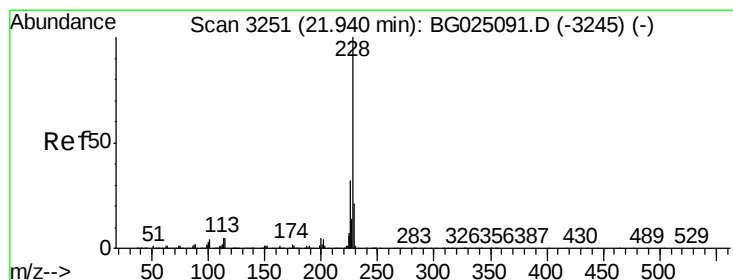
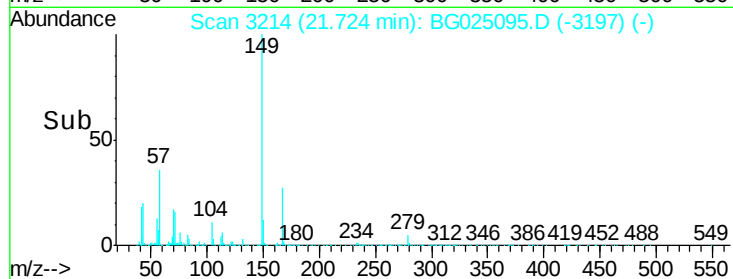
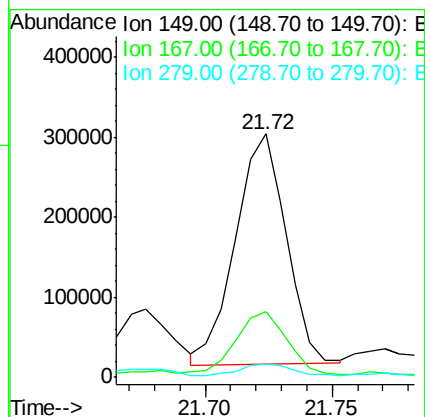
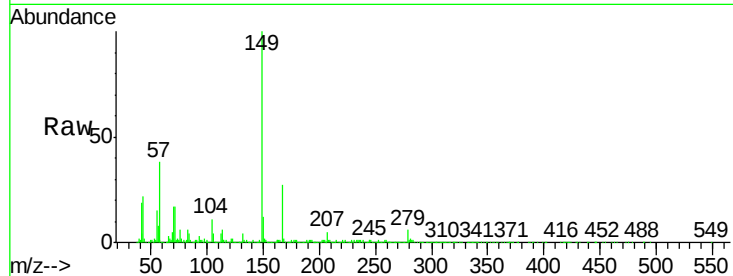
ClientSampleId :

DA812

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 398514 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 27.1  | 21.8  | 32.8   |
| 279       | 5.6   | 4.5   | 6.7    |

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#82

Chrysene

Concen: 7.22 ng/ul

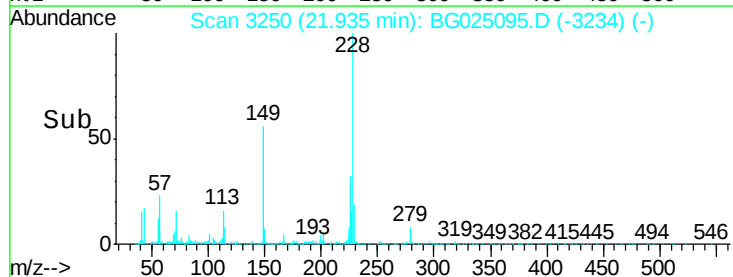
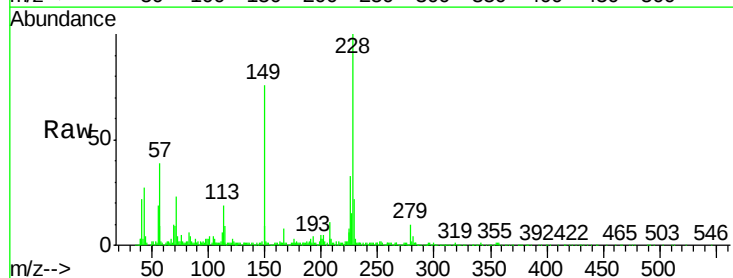
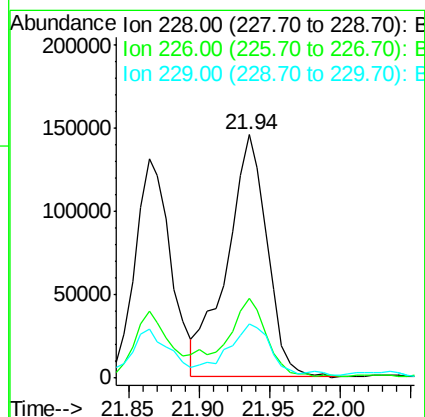
RT: 21.94 min Scan# 3250

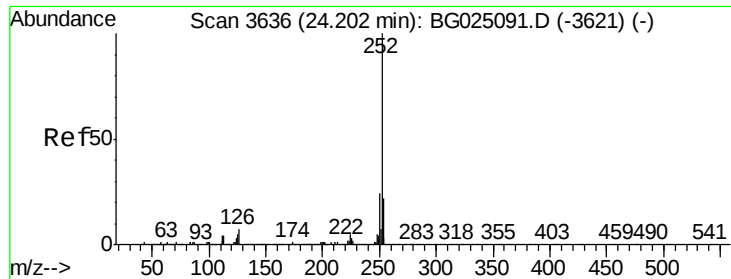
Delta R.T. -0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 286321 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 32.8  | 24.0  | 36.0   |
| 229       | 22.3  | 16.9  | 25.3   |





#85

Benzo(b)fluoranthene

Concen: 10.18 ng/ul

RT: 24.21 min Scan# 3637

Delta R.T. 0.01 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

Instrument :

BNA\_G

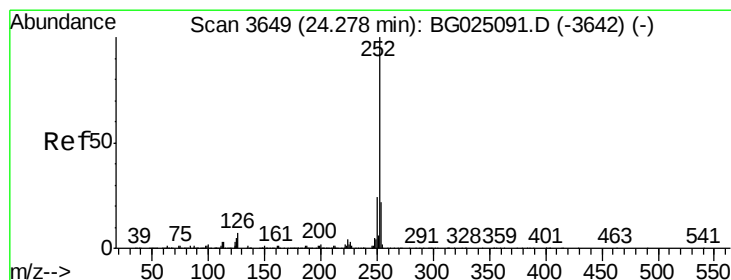
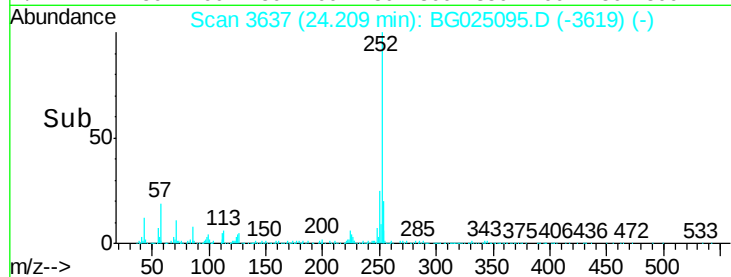
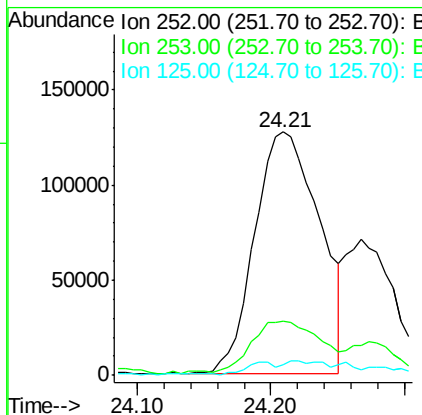
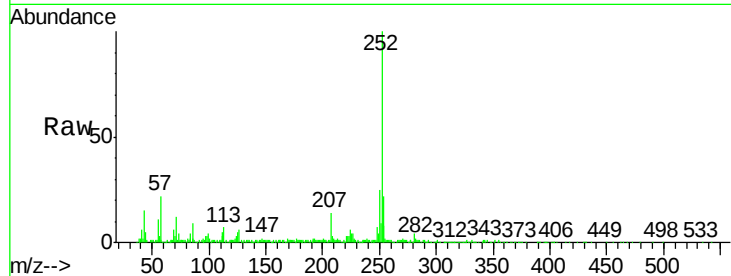
ClientSampleId :

DA812

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 430190 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 17.7  | 26.5   |
| 125       | 4.5   | 4.0   | 6.0    |

Manual Integrations  
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#86

Benzo(k)fluoranthene

Concen: 4.40 ng/ul m

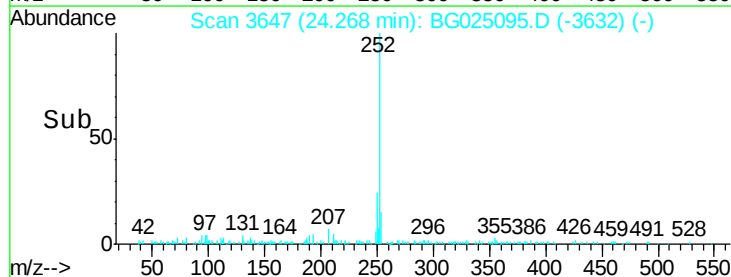
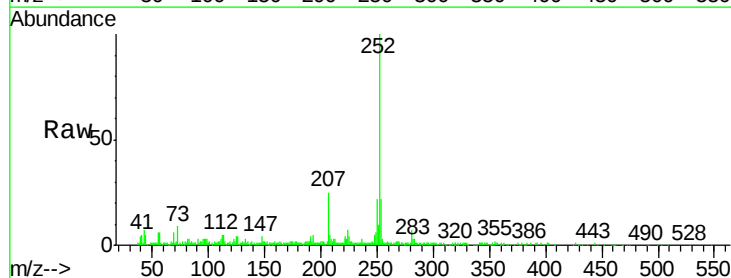
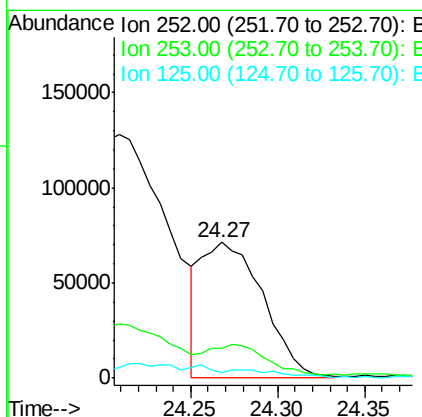
RT: 24.27 min Scan# 3647

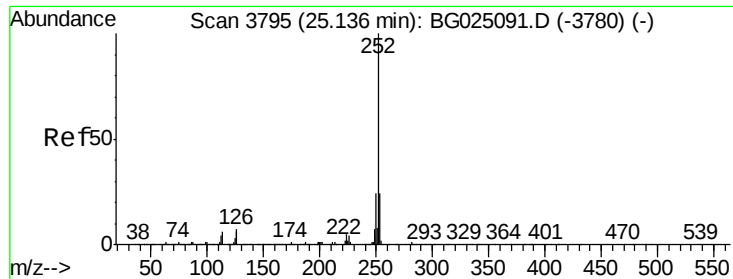
Delta R.T. -0.01 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 176808 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.6  | 18.5  | 27.7   |
| 125       | 3.9   | 4.1   | 6.1#   |





#88

Benzo(a)pyrene

Concen: 6.77 ng/ul

RT: 25.14 min Scan# 3795

Delta R.T. 0.00 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

Instrument :

BNA\_G

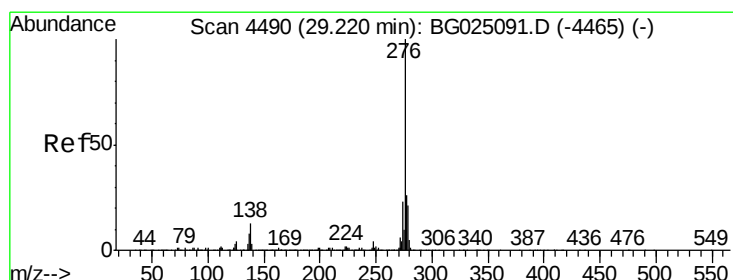
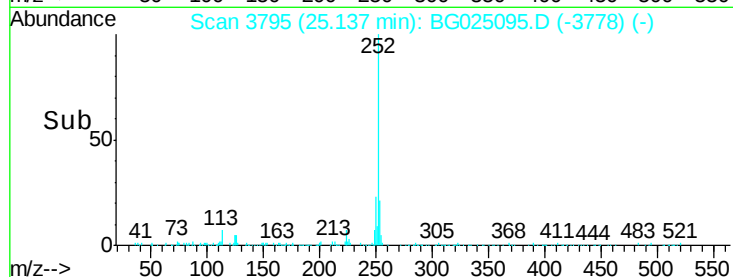
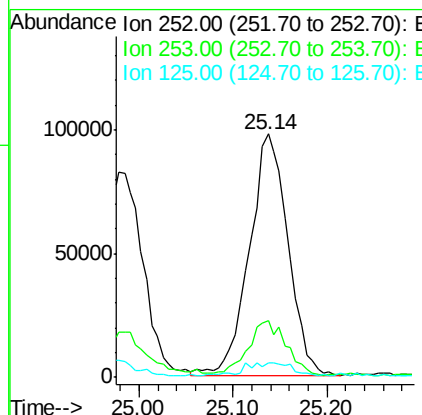
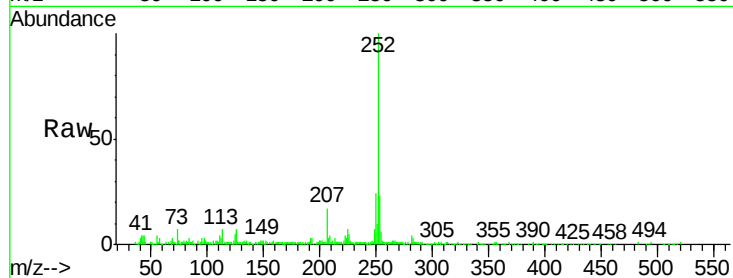
ClientSampleId :

DA812

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.2  | 17.8       | 26.6       |
| 125     | 5.9   | 5.4        | 8.0        |

Manual Integrations  
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#89

Indeno(1,2,3-cd)pyrene

Concen: 4.80 ng/ul

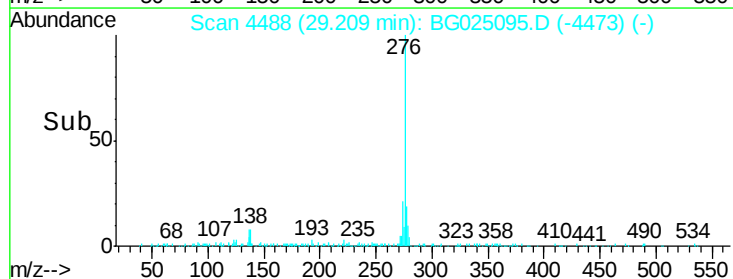
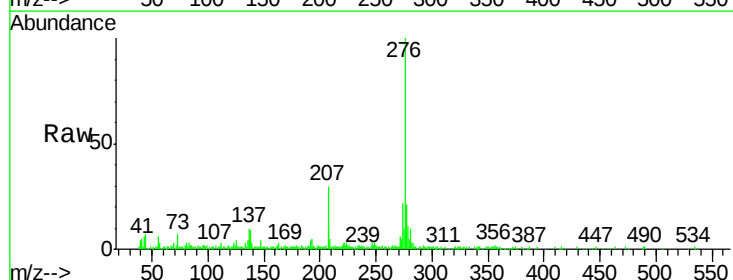
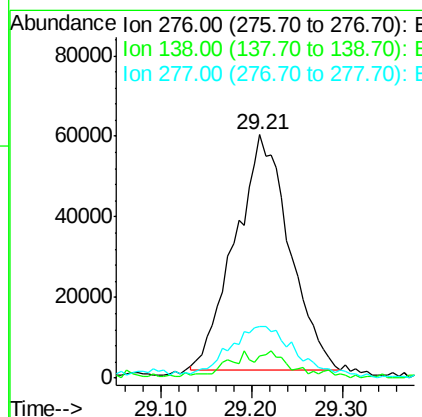
RT: 29.21 min Scan# 4488

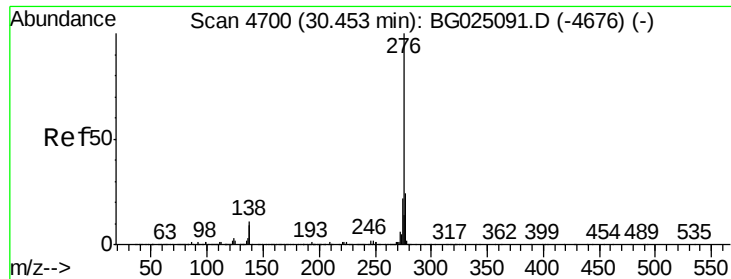
Delta R.T. -0.01 min

Lab File: BG025095.D

Acq: 11 Dec 2016 9:00

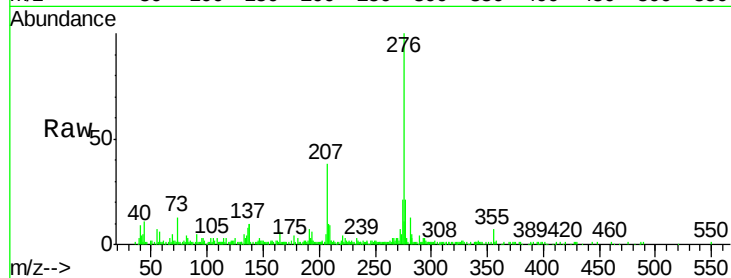
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 8.9   | 8.2        | 12.4       |
| 277     | 21.1  | 18.6       | 28.0       |





#91  
 Benzo(g,h,i)perylene  
 Concen: 5.36 ng/ul m  
 RT: 30.43 min Scan# 4696  
 Delta R.T. -0.02 min  
 Lab File: BG025095.D  
 Acq: 11 Dec 2016 9:00

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DA812



| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 276 | 100  |       | 225648 |       |       |
| 138 | 9.5  | 8.6   | 12.8   |       |       |
| 277 | 21.1 | 17.6  | 26.4   |       |       |

Manual Integrations  
 APPROVED

Sohil  
 12/12/2016 4:30:02 PM

