

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
 Data File : BG025134.D  
 Acq On : 13 Dec 2016 3:59  
 Operator : UM/SJ  
 Sample : H5990-03  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BACKGROUND03-0106-03

Manual Integrations  
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 12/13/2016 6:08:06 PM

Quant Time: Dec 13 06:42:37 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 13 06:23:40 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.24  | 152  | 98871    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 468695   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 385505   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 789987   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 910327   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.32 | 264  | 925168   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.59  | 96  | 9868    | 5.16  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.39  | 99  | 249901  | 29.30 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.56  | 67  | 167898  | 31.82 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.77  | 132 | 181562  | 30.44 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.94  | 113 | 221170  | 31.03 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 101360  | 30.54 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 118193  | 28.57 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.68 | 165 | 218965  | 27.52 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 38817   | 4.96  | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 735060  | 27.72 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 835489  | 28.76 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.06 | 143 | 115293  | 25.30 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.85 | 176 | 667520  | 26.74 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.96 | 200 | 133806  | 27.39 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.70 | 188 | 942088  | 28.25 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.98 | 212 | 1091766 | 29.12 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.08 | 264 | 1065395 | 28.42 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |      |        | Ovalue |
|--------------------------------|-------|-----|--------|------|--------|--------|
| 6) Phenol                      | 7.42  | 94  | 48662  | 5.56 | ng/ul  | 94     |
| 44) Dimethylphthalate          | 14.30 | 163 | 146947 | 5.64 | ng/ul  | 96     |
| 69) Phenanthrene               | 17.64 | 178 | 94654  | 2.51 | ng/ul  | 94     |
| 74) Fluoranthene               | 19.64 | 202 | 233020 | 5.20 | ng/ul  | 99     |
| 77) Pyrene                     | 20.01 | 202 | 199644 | 4.56 | ng/ul# | 95     |
| 80) Benzo(a)anthracene         | 21.87 | 228 | 99995  | 2.11 | ng/ul  | 95     |
| 81) Bis(2-ethylhexyl)phthalate | 21.73 | 149 | 28071  | 1.19 | ng/ul# | 97     |
| 82) Chrysene                   | 21.95 | 228 | 134601 | 3.04 | ng/ul  | 96     |
| 85) Benzo(b)fluoranthene       | 24.22 | 252 | 180793 | 3.94 | ng/ul# | 83     |
| 88) Benzo(a)pyrene             | 25.15 | 252 | 103402 | 2.34 | ng/ul# | 85     |
| 89) Indeno(1,2,3-cd)pyrene     | 29.25 | 276 | 90961m | 1.66 | ng/ul  |        |
| 91) Benzo(g,h,i)perylene       | 30.49 | 276 | 69644m | 1.52 | ng/ul  |        |

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

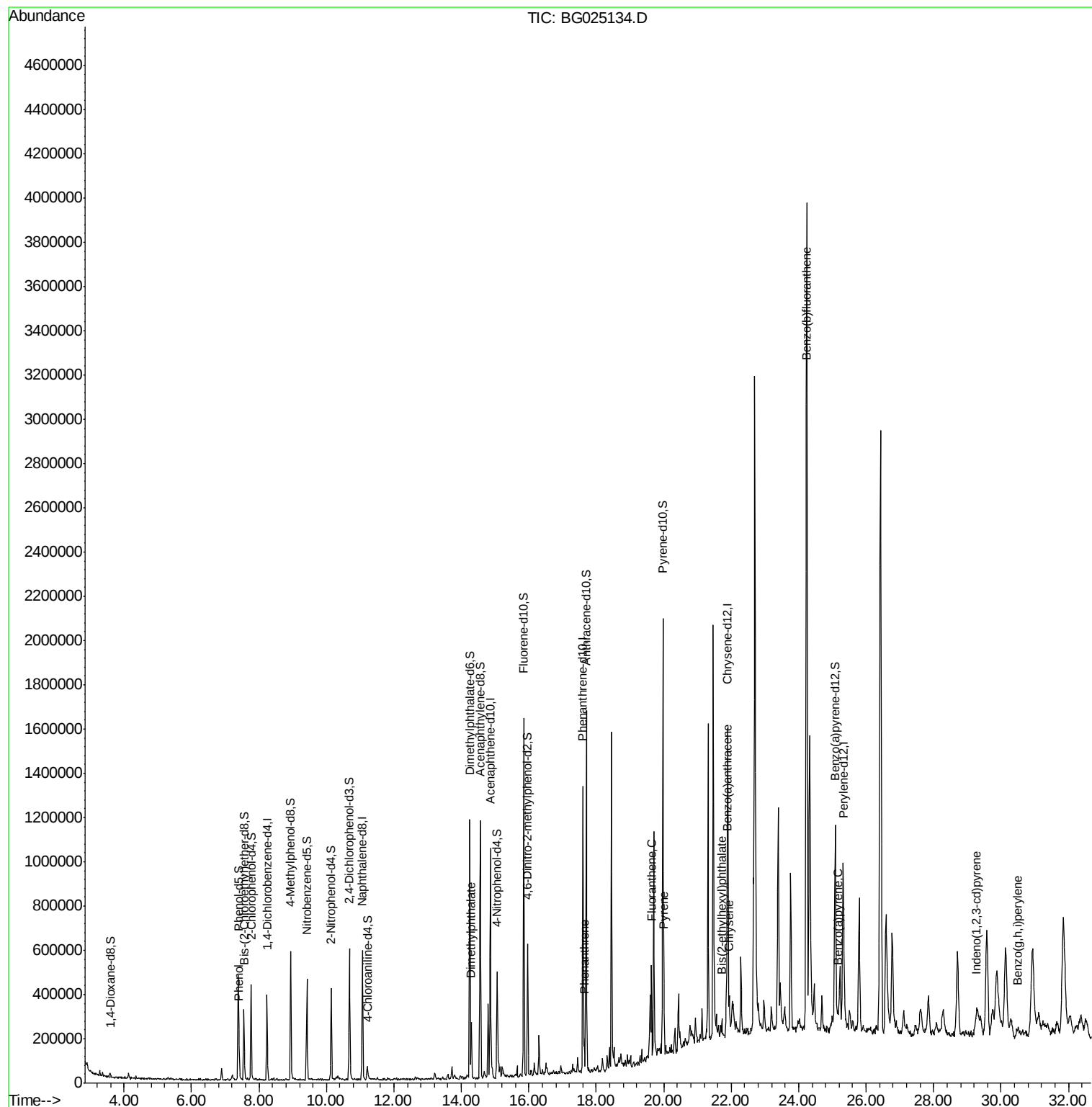
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025134.D  
Acq On : 13 Dec 2016 3:59  
Operator : UM/SJ  
Sample : H5990-03  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

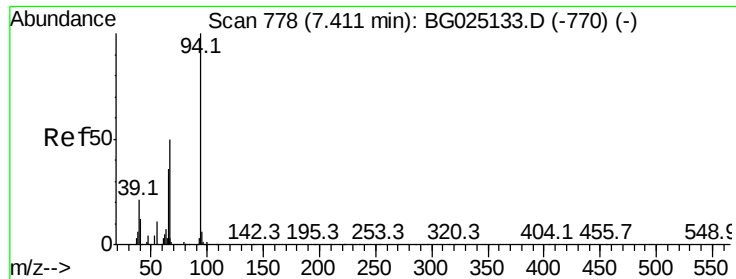
Instrument :  
BNA\_G  
ClientSampleId :  
BACKGROUND03-0106-03

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12/13/2016 6:08:06 PM

Quant Time: Dec 13 06:42:37 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 13 06:23:40 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 5.56 ng/ul

RT: 7.42 min Scan# 779

Delta R.T. 0.00 min

Lab File: BG025134.D

Acq: 13 Dec 2016 3:59

Instrument :

BNA\_G

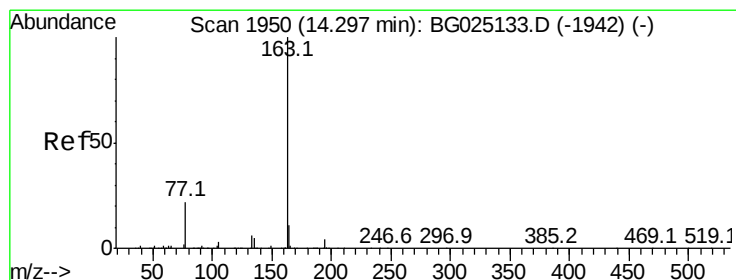
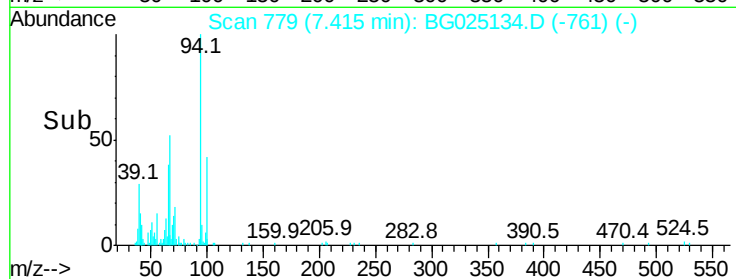
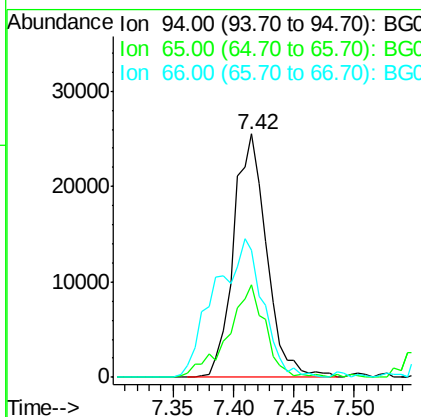
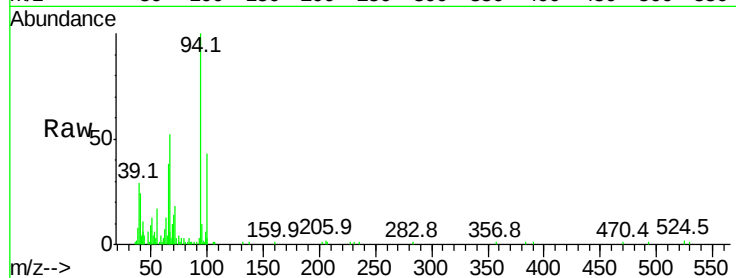
ClientSampleId :

BACKGROUND03-0106-03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 48662 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 37.8  | 26.8  | 40.2  |
| 66        | 52.1  | 44.4  | 66.6  |

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#44

Dimethylphthalate

Concen: 5.64 ng/ul

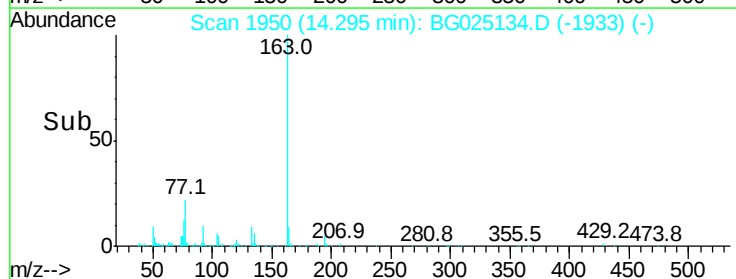
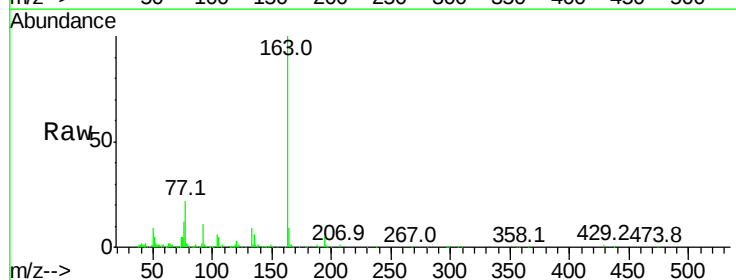
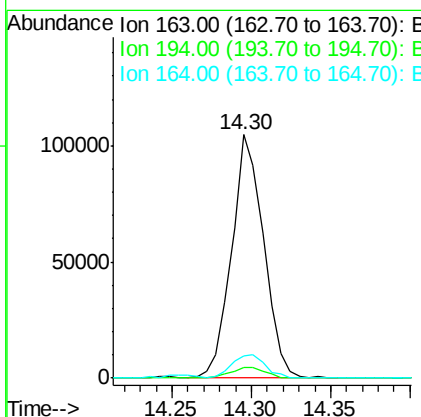
RT: 14.30 min Scan# 1950

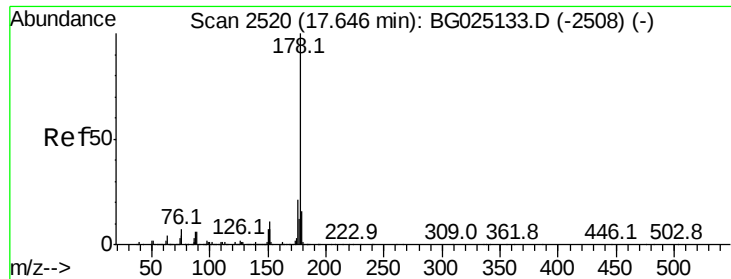
Delta R.T. -0.00 min

Lab File: BG025134.D

Acq: 13 Dec 2016 3:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 146947 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.6   | 3.4   | 5.0    |
| 164       | 9.2   | 9.0   | 13.4   |





#69

Phenanthrene

Concen: 2.51 ng/ul

RT: 17.64 min Scan# 2520

Delta R.T. -0.00 min

Lab File: BG025134.D

Acq: 13 Dec 2016 3:59

Instrument :

BNA\_G

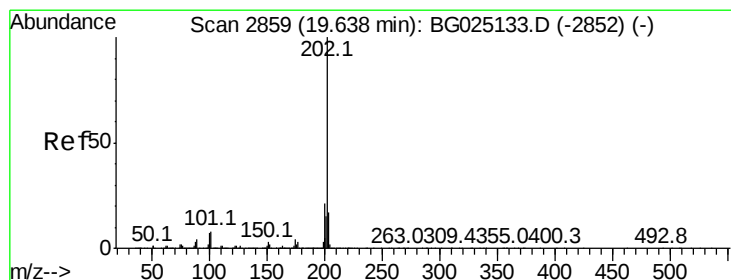
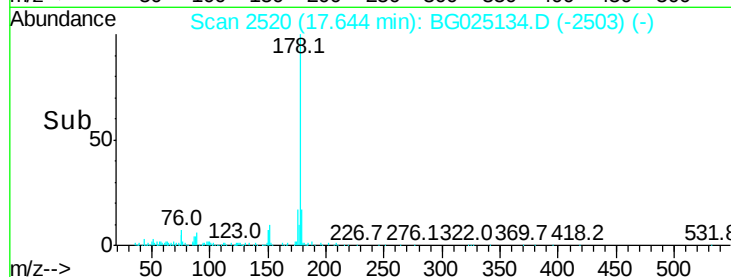
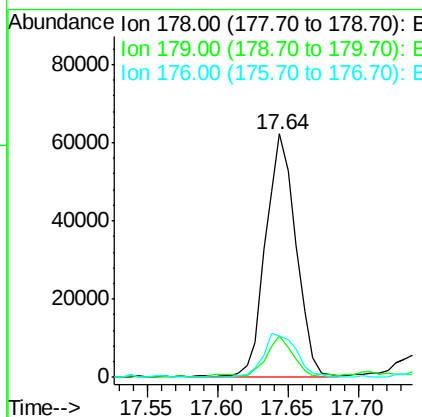
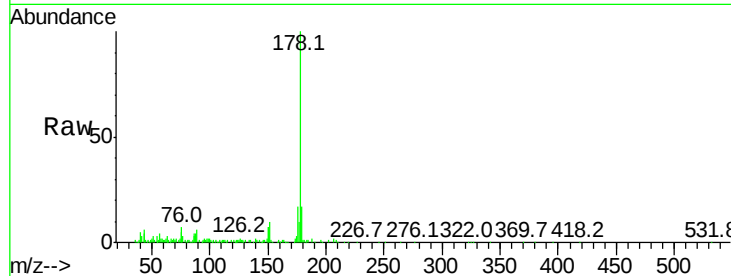
ClientSampleId :

BACKGROUND03-0106-03

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 94654 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 17.0  | 12.4  | 18.6  |
| 176       | 16.8  | 16.5  | 24.7  |

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#74

Fluoranthene

Concen: 5.20 ng/ul

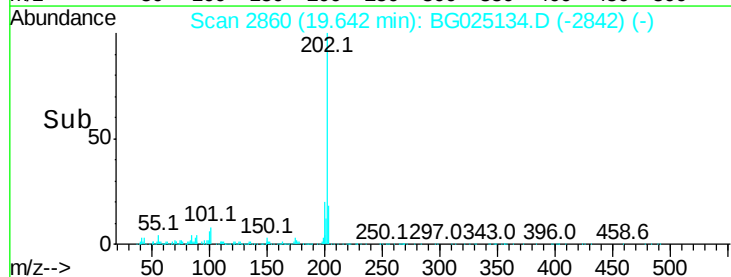
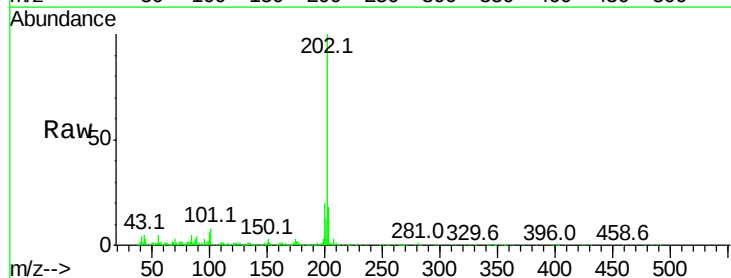
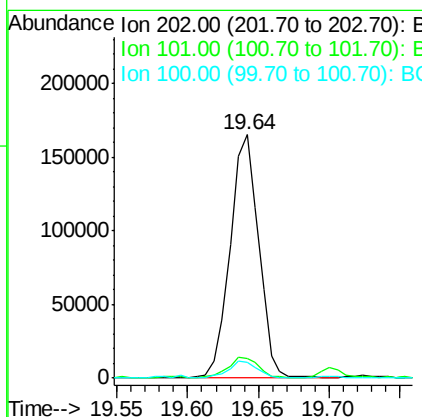
RT: 19.64 min Scan# 2860

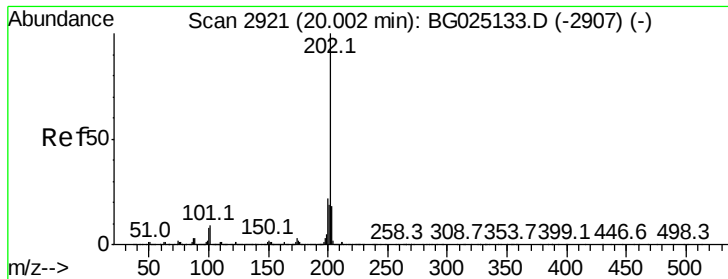
Delta R.T. 0.00 min

Lab File: BG025134.D

Acq: 13 Dec 2016 3:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 233020 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.0   | 6.2   | 9.2    |
| 100       | 6.4   | 5.2   | 7.8    |





#77

Pvrene

Concen: 4.56 ng/ul

RT: 20.01 min Scan# 2922

Delta R.T. 0.00 min

Lab File: BG025134.D

Acq: 13 Dec 2016 3:59

Instrument :

BNA\_G

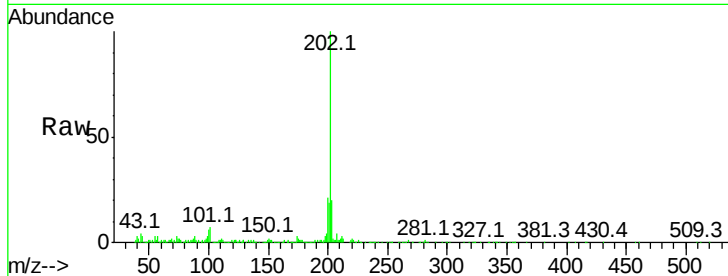
ClientSampleId :

BACKGROUND03-0106-03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 199644 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.3   | 6.9   | 10.3   |
| 100       | 5.8   | 6.6   | 10.0#  |

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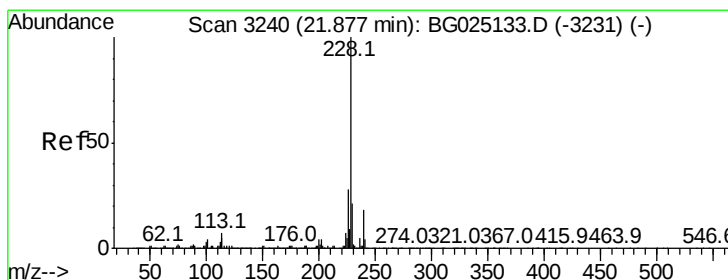
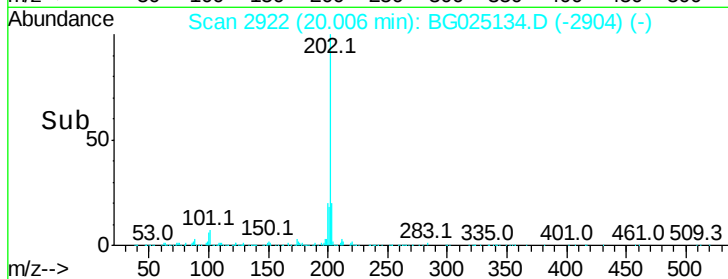
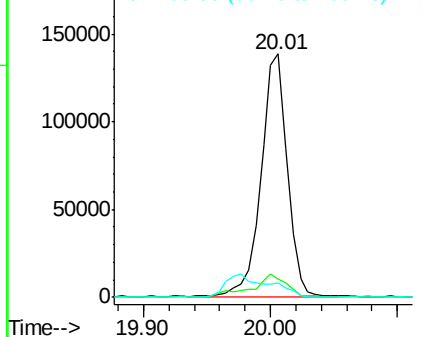
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#80

Benzo(a)anthracene

Concen: 2.11 ng/ul

RT: 21.87 min Scan# 3240

Delta R.T. -0.00 min

Lab File: BG025134.D

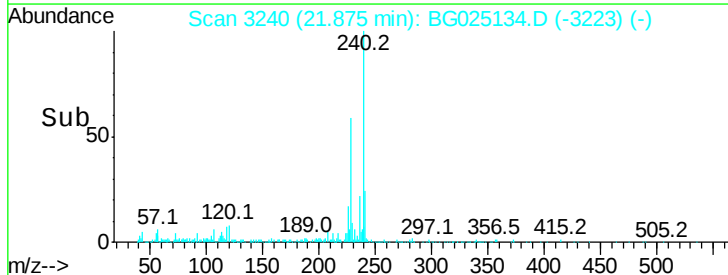
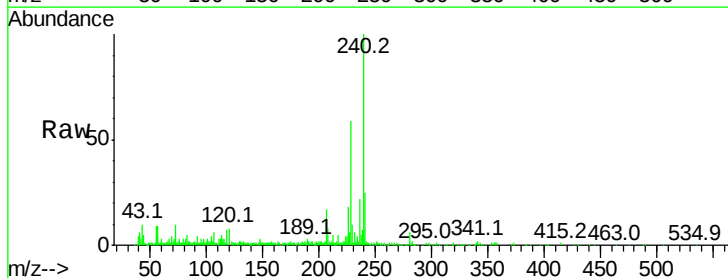
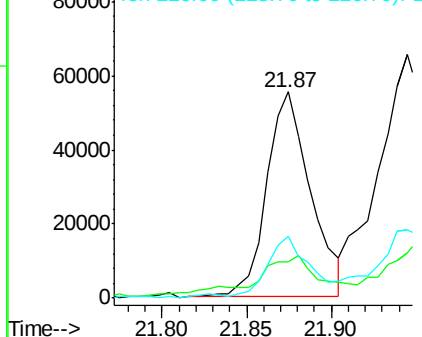
Acq: 13 Dec 2016 3:59

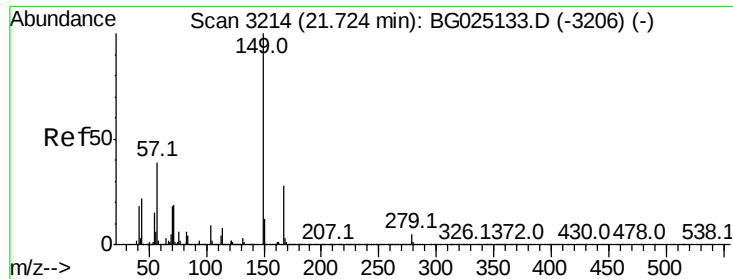
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 99995 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 17.9  | 16.3  | 24.5  |
| 226       | 29.9  | 21.9  | 32.9  |

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





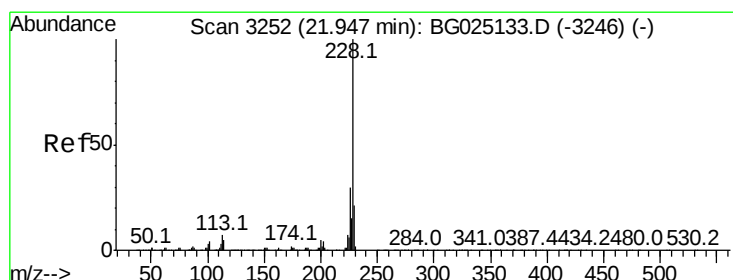
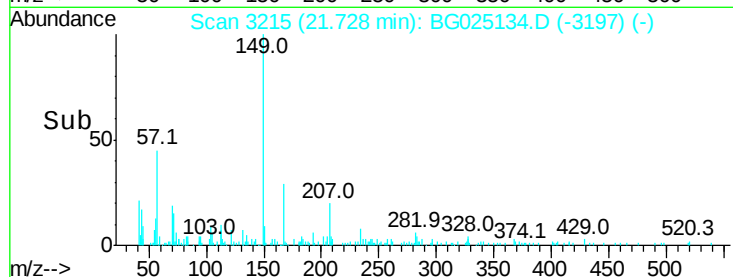
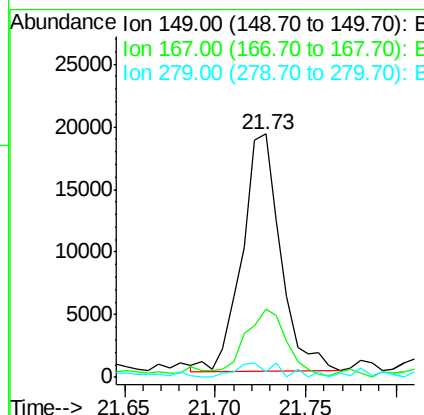
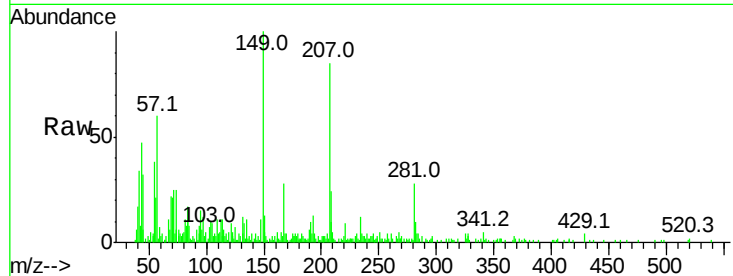
#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.19 ng/ul  
 RT: 21.73 min Scan# 3215  
 Delta R.T. 0.00 min  
 Lab File: BG025134.D  
 Acq: 13 Dec 2016 3:59

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BACKGROUND03-0106-03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.2  | 21.8  | 32.8  |
| 279     | 2.1   | 4.5   | 6.7   |

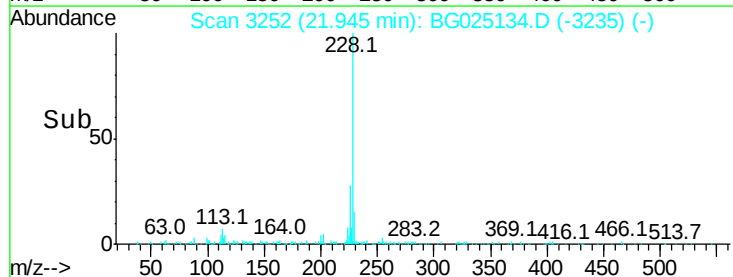
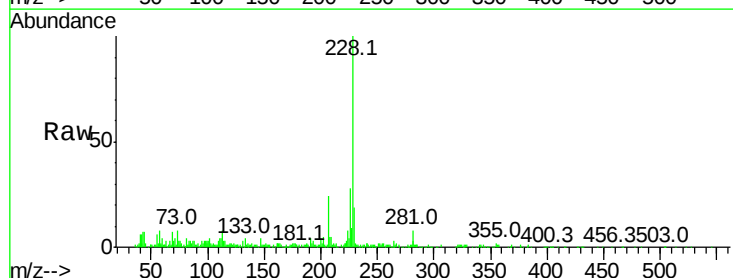
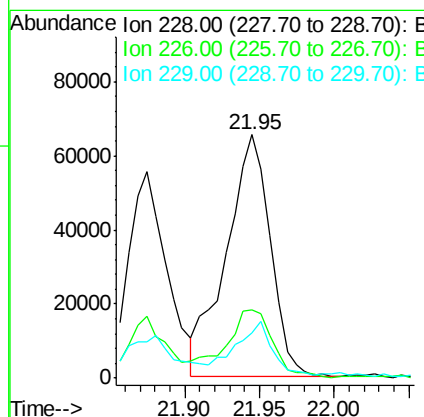
Manual Integrations  
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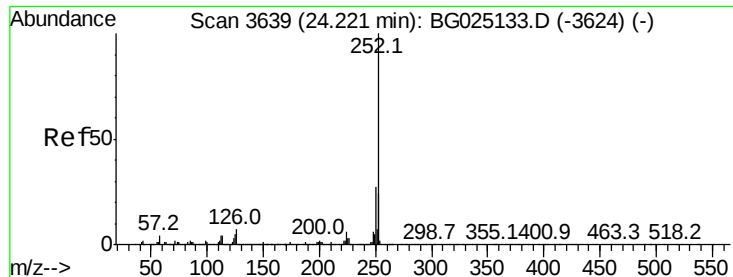
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 12/13/2016 6:08:06 PM



#82  
 Chrysene  
 Concen: 3.04 ng/ul  
 RT: 21.95 min Scan# 3252  
 Delta R.T. -0.00 min  
 Lab File: BG025134.D  
 Acq: 13 Dec 2016 3:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 24.0  | 36.0  |
| 229     | 18.7  | 16.9  | 25.3  |





#85

Benzo(b)fluoranthene

Concen: 3.94 ng/ul

RT: 24.22 min Scan# 3639

Delta R.T. -0.00 min

Lab File: BG025134.D

Acq: 13 Dec 2016 3:59

Instrument :

BNA\_G

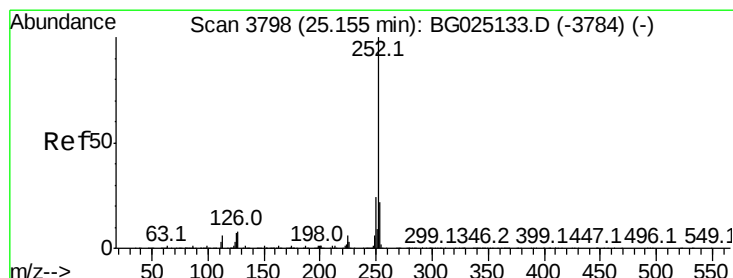
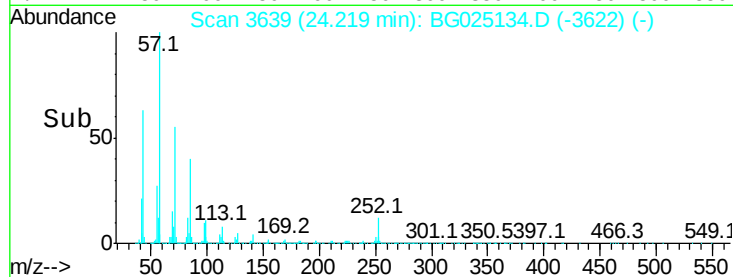
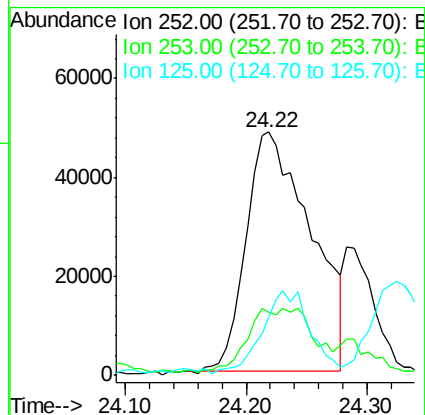
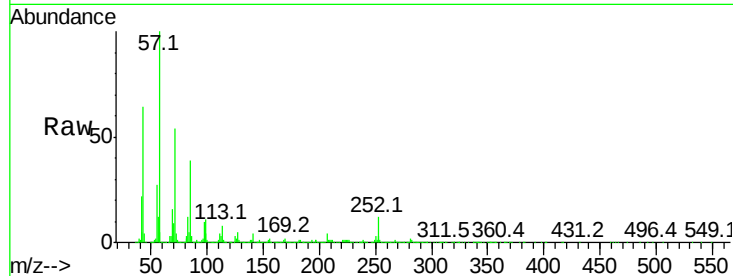
ClientSampleId :

BACKGROUND03-0106-03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 180793 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 26.1  | 17.7  | 26.5   |
| 125       | 23.8  | 4.0   | 6.0#   |

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#88

Benzo(a)pyrene

Concen: 2.34 ng/ul

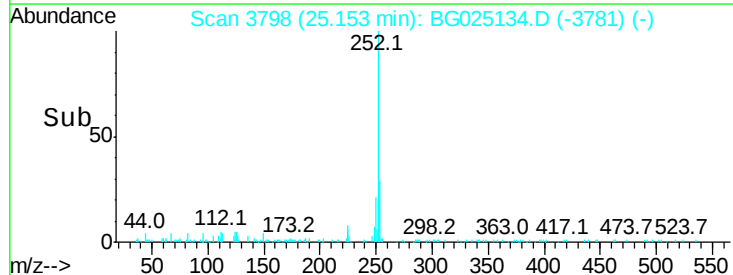
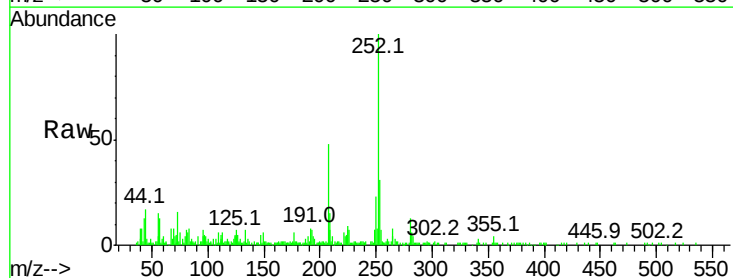
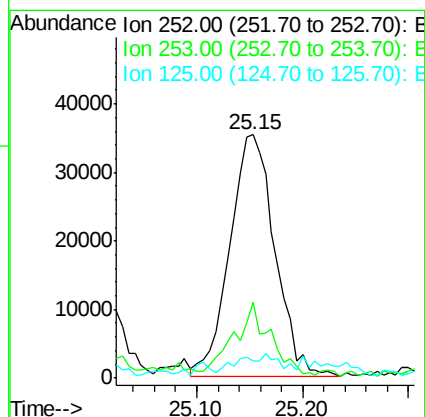
RT: 25.15 min Scan# 3798

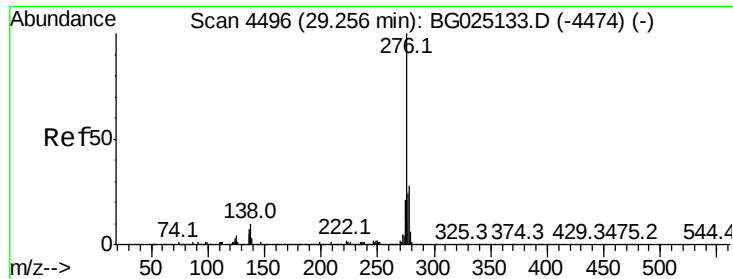
Delta R.T. -0.00 min

Lab File: BG025134.D

Acq: 13 Dec 2016 3:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 103402 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 31.4  | 17.8  | 26.6#  |
| 125       | 6.9   | 5.4   | 8.0    |





#89

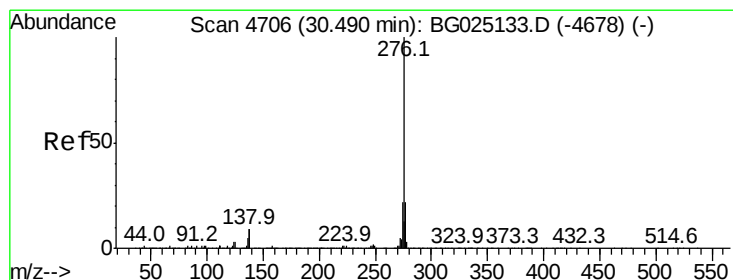
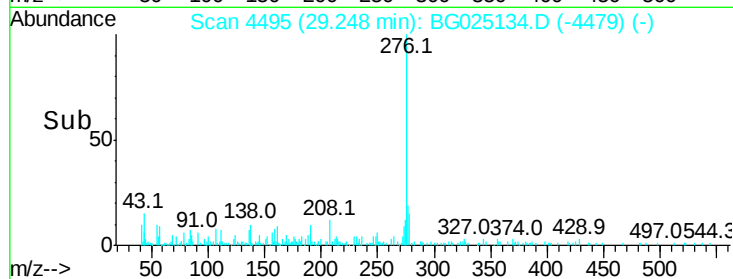
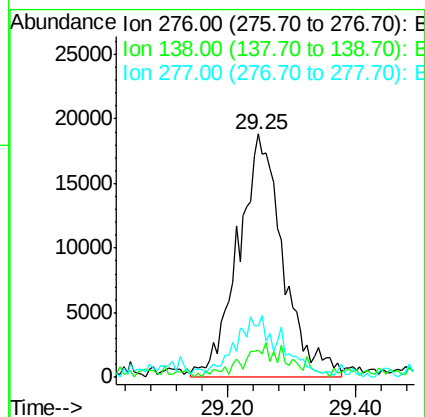
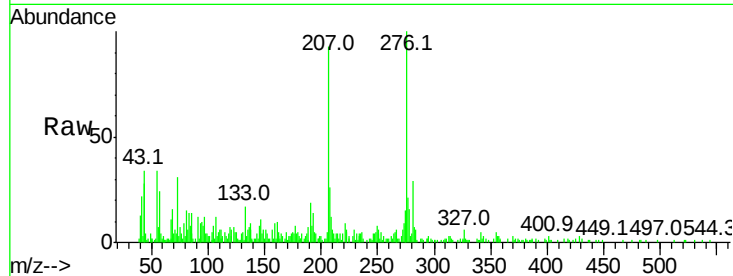
Indeno(1,2,3-cd)pyrene  
Concen: 1.66 ng/ul m  
RT: 29.25 min Scan# 4495  
Delta R.T. -0.01 min  
Lab File: BG025134.D  
Acq: 13 Dec 2016 3:59

Instrument :  
BNA\_G  
ClientSampleId :  
BACKGROUND03-0106-03

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 9.5   | 8.2        | 12.4  |
| 277     | 21.4  | 18.6       | 28.0  |

Manual Integrations  
APPROVED

sohil  
12/13/2016 6:08:06 PM



#91

Benzo(g,h,i)perylene  
Concen: 1.52 ng/ul m  
RT: 30.49 min Scan# 4706  
Delta R.T. -0.00 min  
Lab File: BG025134.D  
Acq: 13 Dec 2016 3:59

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 8.6   | 8.6        | 12.8  |
| 277     | 21.7  | 17.6       | 26.4  |

