

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG071515\  
 Data File : BG017888.D  
 Acq On : 15 Jul 2015 16:36  
 Operator : TP/UM  
 Sample : MDL-01-S-ML  
 Misc : MDL-SOIL-SVOC-BLK-MED LEVEL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-01-S-ML

Manual Integrations  
 APPROVED

apatel  
 7/16/2015 3:55:42 PM

Quant Time: Jul 16 02:22:49 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG071415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 16 01:50:07 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 82137    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.37 | 136  | 380405   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.24 | 164  | 235938   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.99 | 188  | 497638   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.20 | 240  | 502170   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.42 | 264  | 487422   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.12  | 96  | 12142  | 5.29  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.77  | 99  | 205545 | 29.01 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 127570 | 26.34 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.12  | 132 | 170496 | 30.99 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 168399 | 31.01 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.74  | 128 | 85490  | 28.80 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.46  | 143 | 71268  | 31.98 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 146977 | 32.15 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.51 | 131 | 261286 | 39.69 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.66 | 166 | 546588 | 33.23 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.93 | 160 | 687870 | 32.18 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.45 | 143 | 91054  | 29.33 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.24 | 176 | 509208 | 33.28 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 42461  | 18.24 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.09 | 188 | 762807 | 33.83 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.40 | 212 | 865348 | 36.59 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.28 | 264 | 788858 | 33.02 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |       |             | Qvalue |
|--------------------------------|-------|-----|-------|-------------|--------|
| 2) 1,4-Dioxane                 | 3.15  | 88  | 2147  | 0.87 ng/uL# | 62     |
| 4) Benzaldehyde                | 6.74  | 77  | 14762 | 3.56 ng/ul  | 94     |
| 6) Phenol                      | 6.79  | 94  | 21049 | 2.71 ng/ul# | 87     |
| 8) Bis(2-Chloroethyl)ether     | 7.02  | 93  | 16873 | 2.66 ng/ul# | 96     |
| 10) 2-Chlorophenol             | 7.15  | 128 | 15810 | 2.84 ng/ul  | 90     |
| 11) 2-Methylphenol             | 8.03  | 108 | 13478 | 2.39 ng/ul# | 80     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.13  | 45  | 22261 | 2.42 ng/ul# | 89     |
| 14) Acetophenone               | 8.40  | 105 | 25034 | 2.77 ng/ul  | 97     |
| 15) N-Nitroso-di-n-propylamine | 8.39  | 70  | 13628 | 2.45 ng/ul# | 89     |
| 16) 4-Methylphenol             | 8.36  | 108 | 17396 | 2.83 ng/ul  | 98     |
| 17) Hexachloroethane           | 8.66  | 117 | 7021  | 2.65 ng/ul  | 98     |
| 20) Nitrobenzene               | 8.77  | 77  | 18758 | 2.40 ng/ul# | 96     |
| 21) Isophorone                 | 9.30  | 82  | 38972 | 2.66 ng/ul  | 98     |
| 23) 2-Nitrophenol              | 9.49  | 139 | 7704  | 2.91 ng/ul  | 91     |
| 24) 2,4-Dimethylphenol         | 9.56  | 107 | 17326 | 2.56 ng/ul  | 97     |
| 25) Bis(2-Chloroethoxy)methane | 9.80  | 93  | 22323 | 2.71 ng/ul  | 95     |
| 27) 2,4-Dichlorophenol         | 10.02 | 162 | 13684 | 2.97 ng/ul  | 88     |
| 28) Naphthalene                | 10.42 | 128 | 56418 | 2.87 ng/ul  | 99     |
| 30) 4-Chloroaniline            | 10.53 | 127 | 22642 | 3.31 ng/ul# | 85     |
| 31) Hexachlorobutadiene        | 10.71 | 225 | 8651  | 2.98 ng/ul  | 95     |
| 32) Caprolactam                | 11.32 | 113 | 4625m | 1.37 ng/ul  |        |
| 33) 4-Chloro-3-methylphenol    | 11.67 | 107 | 14569 | 2.57 ng/ul  | 98     |
| 34) 2-Methylnaphthalene        | 12.04 | 142 | 39659 | 2.97 ng/ul  | 97     |

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 Misc : MDL-SOIL-SVOC-BLK-MED LEVEL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 MDL-01-S-ML

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Quant Time: Jul 16 02:22:49 2015  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 16 01:50:07 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.42 | 216  | 17636    | 2.84 | ng/ul# | 92       |
| 37) Hexachlorocyclopentadiene  | 12.40 | 237  | 6328     | 1.96 | ng/ul  | 89       |
| 38) 2,4,6-Trichlorophenol      | 12.66 | 196  | 8429     | 2.50 | ng/ul  | 93       |
| 39) 2,4,5-Trichlorophenol      | 12.73 | 196  | 9751     | 2.66 | ng/ul  | 94       |
| 40) 1,1'-Biphenyl              | 13.07 | 154  | 51111    | 2.80 | ng/ul  | 96       |
| 41) 2-Chloronaphthalene        | 13.11 | 162  | 39723    | 2.83 | ng/ul# | 94       |
| 42) 2-Nitroaniline             | 13.32 | 65   | 7905     | 1.92 | ng/ul  | 90       |
| 44) Dimethylphthalate          | 13.70 | 163  | 54941    | 3.18 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.83 | 165  | 6738     | 2.14 | ng/ul  | 94       |
| 47) Acenaphthylene             | 13.96 | 152  | 70787    | 2.99 | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.15 | 138  | 8560     | 2.39 | ng/ul# | 83       |
| 49) Acenaphthene               | 14.30 | 153  | 45346    | 2.85 | ng/ul  | 97       |
| 50) 2,4-Dinitrophenol          | 14.36 | 184  | 1105     | 0.83 | ng/ul# | 69       |
| 52) 4-Nitrophenol              | 14.46 | 109  | 6607     | 2.51 | ng/ul  | 87       |
| 53) Dibenzofuran               | 14.64 | 168  | 64911    | 3.10 | ng/ul  | 98       |
| 54) 2,4-Dinitrotoluene         | 14.62 | 165  | 11042    | 2.45 | ng/ul# | 77       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.87 | 232  | 6935     | 2.45 | ng/ul# | 84       |
| 56) Diethylphthalate           | 15.09 | 149  | 54221    | 3.05 | ng/ul  | 99       |
| 58) Fluorene                   | 15.30 | 166  | 54927    | 3.02 | ng/ul  | 91       |
| 59) 4-Chlorophenyl-phenylether | 15.30 | 204  | 24891    | 2.95 | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.31 | 138  | 10557    | 2.47 | ng/ul  | 91       |
| 63) 4,6-Dinitro-2-methylphenol | 15.38 | 198  | 5245     | 2.02 | ng/ul# | 89       |
| 64) N-Nitrosodiphenylamine     | 15.51 | 169  | 43108    | 2.84 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.20 | 248  | 14338    | 3.00 | ng/ul# | 88       |
| 66) Hexachlorobenzene          | 16.30 | 284  | 16950    | 3.27 | ng/ul# | 89       |
| 67) Atrazine                   | 16.47 | 200  | 14082    | 2.71 | ng/ul  | 94       |
| 68) Pentachlorophenol          | 16.65 | 266  | 3412     | 1.33 | ng/ul  | 98       |
| 69) Phenanthrene               | 17.04 | 178  | 85242    | 3.10 | ng/ul  | 99       |
| 71) Anthracene                 | 17.13 | 178  | 89233    | 3.17 | ng/ul  | 97       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.03 | 216  | 16432    | 2.59 | ng/uL  | 98       |
| 73) Pentachlorobenzene         | 14.56 | 250  | 19750    | 3.25 | ng/uL  | 95       |
| 74) Carbazole                  | 17.40 | 167  | 77290    | 3.15 | ng/ul  | 99       |
| 75) Di-n-butylphthalate        | 17.98 | 149  | 88725    | 2.88 | ng/ul# | 94       |
| 76) Fluoranthene               | 19.06 | 202  | 92914    | 3.33 | ng/ul  | 96       |
| 79) Pyrene                     | 19.43 | 202  | 108620   | 3.51 | ng/ul  | 95       |
| 80) Butylbenzylphthalate       | 20.35 | 149  | 30901    | 2.47 | ng/ul  | 90       |
| 81) 3,3'-Dichlorobenzidine     | 21.13 | 252  | 16816    | 2.23 | ng/ul  | 95       |
| 82) Benzo(a)anthracene         | 21.18 | 228  | 90137    | 3.25 | ng/ul  | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 21.13 | 149  | 39687    | 2.29 | ng/ul  | 96       |
| 84) Chrysene                   | 21.23 | 228  | 89891    | 3.38 | ng/ul  | 97       |
| 86) Di-n-octyl phthalate       | 22.00 | 149  | 54529    | 1.91 | ng/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.75 | 252  | 81757    | 3.04 | ng/ul  | 98       |
| 88) Benzo(k)fluoranthene       | 22.79 | 252  | 77570    | 2.80 | ng/ul  | 97       |
| 90) Benzo(a)pyrene             | 23.32 | 252  | 86899    | 3.22 | ng/ul  | 95       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.66 | 276  | 81871    | 2.83 | ng/ul  | 94       |
| 92) Dibenzo(a,h)anthracene     | 25.67 | 278  | 66830    | 2.72 | ng/ul  | 95       |
| 93) Benzo(g,h,i)perylene       | 26.34 | 276  | 71092    | 2.94 | ng/ul  | 97       |

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

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG071515\  
Data File : BG071888.D  
Acq On : 15 Jul 2015 16:36  
Operator : TP/UM  
Sample : MDL-01-S-ML  
Misc : MDL-SOIL-SVOC-BLK-MED LEVEL  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
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