

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG021615\  
 Data File : BG015995.D  
 Acq On : 16 Feb 2015 16:29  
 Operator : TP/IZ  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD02007

Quant Time: Feb 16 17:19:48 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG021015.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Feb 11 12:50:03 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 69158    | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.60 | 136  | 322067   | 20.00 | ng/ul | -0.01    |
| 35) Acenaphthene-d10      | 14.44 | 164  | 202673   | 20.00 | ng/ul | -0.01    |
| 61) Phenanthrene-d10      | 17.18 | 188  | 421577   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 456371   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.66 | 264  | 422852   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.28  | 96  | 13502  | 8.00  | ng/uL | -0.01 |
| 5) Phenol-d5                   | 6.97  | 99  | 135718 | 19.78 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.14  | 67  | 78731  | 19.92 | ng/ul | -0.01 |
| 9) 2-Chlorophenol-d4           | 7.34  | 132 | 99876  | 19.63 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 105066 | 19.70 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 49956  | 18.63 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 9.69  | 143 | 50046  | 18.26 | ng/ul | -0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 96110  | 19.86 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.73 | 131 | 121226 | 22.54 | ng/ul | -0.01 |
| 43) Dimethylphthalate-d6       | 13.85 | 166 | 269931 | 19.83 | ng/ul | -0.01 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 377318 | 20.34 | ng/ul | -0.01 |
| 51) 4-Nitrophenol-d4           | 14.63 | 143 | 62959  | 18.53 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.43 | 176 | 265092 | 19.97 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 38196  | 15.32 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.28 | 188 | 395728 | 20.44 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.57 | 212 | 426402 | 21.00 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 23.51 | 264 | 383796 | 20.50 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.32  | 88  | 15807  | 8.19  | ng/uL | 97     |
| 4) Benzaldehyde                | 6.95  | 77  | 46381  | 22.73 | ng/ul | 96     |
| 6) Phenol                      | 6.99  | 94  | 145707 | 20.39 | ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 7.24  | 93  | 111406 | 20.33 | ng/ul | 99     |
| 10) 2-Chlorophenol             | 7.37  | 128 | 103016 | 20.01 | ng/ul | 99     |
| 11) 2-Methylphenol             | 8.25  | 108 | 104627 | 19.74 | ng/ul | 100    |
| 12) 2,2'-oxybis(1-Chloropropan | 8.35  | 45  | 147919 | 19.48 | ng/ul | 98     |
| 14) Acetophenone               | 8.63  | 105 | 156399 | 20.40 | ng/ul | 97     |
| 15) N-Nitroso-di-n-propylamine | 8.62  | 70  | 89783  | 19.34 | ng/ul | 99     |
| 16) 4-Methylphenol             | 8.57  | 108 | 117955 | 19.83 | ng/ul | 100    |
| 17) Hexachloroethane           | 8.89  | 117 | 39862  | 19.94 | ng/ul | 99     |
| 20) Nitrobenzene               | 9.00  | 77  | 119051 | 19.35 | ng/ul | 97     |
| 21) Isophorone                 | 9.53  | 82  | 248094 | 19.63 | ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.71  | 139 | 55786  | 18.93 | ng/ul | 95     |
| 24) 2,4-Dimethylphenol         | 9.77  | 107 | 118831 | 19.85 | ng/ul | 96     |
| 25) Bis(2-Chloroethoxy)methane | 10.01 | 93  | 146506 | 19.88 | ng/ul | 98     |
| 27) 2,4-Dichlorophenol         | 10.24 | 162 | 93686  | 19.94 | ng/ul | 99     |
| 28) Naphthalene                | 10.65 | 128 | 344650 | 20.57 | ng/ul | 99     |
| 30) 4-Chloroaniline            | 10.75 | 127 | 121809 | 22.56 | ng/ul | 98     |
| 31) Hexachlorobutadiene        | 10.94 | 225 | 48589  | 19.67 | ng/ul | 96     |
| 32) Caprolactam                | 11.51 | 113 | 48255  | 19.16 | ng/ul | 95     |
| 33) 4-Chloro-3-methylphenol    | 11.88 | 107 | 112011 | 19.61 | ng/ul | 100    |
| 34) 2-Methylnaphthalene        | 12.26 | 142 | 244250 | 20.29 | ng/ul | 97     |

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 Quant Title : SVOA CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.63 | 216  | 102597   | 19.77 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.61 | 237  | 54286    | 16.79 | ng/ul  | 95       |
| 38) 2,4,6-Trichlorophenol      | 12.87 | 196  | 67392    | 19.42 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.93 | 196  | 75837    | 19.74 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.27 | 154  | 308616   | 20.15 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.32 | 162  | 228349   | 20.04 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.52 | 65   | 72087    | 18.83 | ng/ul  | 95       |
| 44) Dimethylphthalate          | 13.90 | 163  | 292593   | 19.91 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 14.01 | 165  | 58564    | 18.54 | ng/ul  | 99       |
| 47) Acenaphthylene             | 14.16 | 152  | 409001   | 20.52 | ng/ul  | 100      |
| 48) 3-Nitroaniline             | 14.34 | 138  | 72022    | 20.60 | ng/ul  | 99       |
| 49) Acenaphthene               | 14.50 | 153  | 265764   | 20.13 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.54 | 184  | 22161    | 13.21 | ng/ul  | 94       |
| 52) 4-Nitrophenol              | 14.64 | 109  | 37409    | 19.56 | ng/ul  | 96       |
| 53) Dibenzofuran               | 14.84 | 168  | 361237   | 20.41 | ng/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.80 | 165  | 82403    | 18.66 | ng/ul  | 98       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.06 | 232  | 64816    | 19.38 | ng/ul# | 94       |
| 56) Diethylphthalate           | 15.27 | 149  | 299391   | 19.68 | ng/ul  | 99       |
| 58) Fluorene                   | 15.49 | 166  | 313266   | 20.20 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.48 | 204  | 141784   | 19.84 | ng/ul  | 98       |
| 60) 4-Nitroaniline             | 15.50 | 138  | 84883    | 19.70 | ng/ul  | 97       |
| 63) 4,6-Dinitro-2-methylphenol | 15.56 | 198  | 44454    | 16.41 | ng/ul  | 100      |
| 64) N-Nitrosodiphenylamine     | 15.69 | 169  | 269067   | 20.40 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.38 | 248  | 86274    | 19.68 | ng/ul  | 98       |
| 66) Hexachlorobenzene          | 16.49 | 284  | 95671    | 19.46 | ng/ul  | 99       |
| 67) Atrazine                   | 16.65 | 200  | 87665    | 20.08 | ng/ul  | 96       |
| 68) Pentachlorophenol          | 16.83 | 266  | 52433    | 17.91 | ng/ul  | 99       |
| 69) Phenanthrene               | 17.22 | 178  | 473862   | 20.81 | ng/ul  | 99       |
| 71) Anthracene                 | 17.32 | 178  | 485334   | 20.68 | ng/ul  | 99       |
| 72) Carbazole                  | 17.58 | 167  | 463479   | 22.32 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.15 | 149  | 545962   | 20.48 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.24 | 202  | 523612   | 22.69 | ng/ul  | 98       |
| 77) Pyrene                     | 19.60 | 202  | 560213   | 21.09 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.50 | 149  | 250581   | 20.84 | ng/ul  | 98       |
| 79) 3,3'-Dichlorobenzidine     | 21.28 | 252  | 168833   | 19.91 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.34 | 228  | 524278   | 20.97 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.28 | 149  | 330183   | 20.74 | ng/ul  | 99       |
| 82) Chrysene                   | 21.39 | 228  | 486771   | 20.78 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.17 | 149  | 537564   | 23.07 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.96 | 252  | 494214   | 20.80 | ng/ul  | 98       |
| 86) Benzo(k)fluoranthene       | 23.01 | 252  | 477489   | 20.87 | ng/ul  | 100      |
| 88) Benzo(a)pyrene             | 23.56 | 252  | 478843   | 20.83 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 26.02 | 276  | 553435   | 20.06 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 26.04 | 278  | 470491   | 20.25 | ng/ul  | 98       |
| 91) Benzo(g,h,i)perylene       | 26.74 | 276  | 461862   | 20.05 | ng/ul  | 99       |

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

