

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021017\  
 Data File : BG025824.D  
 Acq On : 10 Feb 2017 11:01  
 Operator : SJ/MA  
 Sample : SSTD02006  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 10 12:14:48 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG021017MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 10 12:09:06 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 75114    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.89 | 136  | 385341   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.69 | 164  | 281308   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.42 | 188  | 611263   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.67 | 240  | 617943   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.89 | 264  | 595045   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.52  | 96  | 13764  | 9.94  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.24  | 99  | 144913 | 24.61 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.41  | 67  | 90640  | 23.73 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.62  | 132 | 109781 | 25.23 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.78  | 113 | 120070 | 24.60 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.24  | 128 | 49350  | 18.37 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.97  | 143 | 53262  | 16.62 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.50 | 165 | 117846 | 19.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.02 | 131 | 160088 | 23.50 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.09 | 166 | 428163 | 22.10 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.39 | 160 | 491877 | 23.06 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.86 | 143 | 80282  | 29.85 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.68 | 176 | 376000 | 20.81 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.78 | 200 | 56829  | 14.62 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.52 | 188 | 582010 | 22.44 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.79 | 212 | 624964 | 26.18 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.66 | 264 | 552424 | 22.46 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue |    |
|--------------------------------|-------|-----|--------|-------|--------|----|
| 2) 1,4-Dioxane                 | 3.55  | 88  | 15243  | 9.16  | ng/uL# | 61 |
| 4) Benzaldehyde                | 7.23  | 77  | 95914  | 23.44 | ng/ul  | 95 |
| 6) Phenol                      | 7.26  | 94  | 151045 | 24.54 | ng/ul  | 94 |
| 8) Bis(2-Chloroethyl)ether     | 7.50  | 93  | 115514 | 25.11 | ng/ul# | 84 |
| 10) 2-Chlorophenol             | 7.66  | 128 | 109668 | 24.95 | ng/ul# | 84 |
| 11) 2-Methylphenol             | 8.52  | 108 | 114068 | 25.20 | ng/ul  | 99 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.62  | 45  | 161663 | 19.32 | ng/ul# | 88 |
| 14) Acetophenone               | 8.91  | 105 | 186336 | 24.64 | ng/ul# | 93 |
| 15) N-Nitroso-di-n-propylamine | 8.89  | 70  | 93282  | 20.34 | ng/ul  | 93 |
| 16) 4-Methylphenol             | 8.84  | 108 | 130565 | 26.12 | ng/ul  | 94 |
| 17) Hexachloroethane           | 9.18  | 117 | 38748  | 18.64 | ng/ul  | 93 |
| 20) Nitrobenzene               | 9.29  | 77  | 120649 | 14.09 | ng/ul  | 96 |
| 21) Isophorone                 | 9.81  | 82  | 273638 | 17.91 | ng/ul  | 98 |
| 23) 2-Nitrophenol              | 10.00 | 139 | 60916  | 17.93 | ng/ul# | 91 |
| 24) 2,4-Dimethylphenol         | 10.05 | 107 | 133004 | 17.52 | ng/ul  | 95 |
| 25) Bis(2-Chloroethoxy)methane | 10.29 | 93  | 167372 | 20.99 | ng/ul  | 99 |
| 27) 2,4-Dichlorophenol         | 10.53 | 162 | 115594 | 19.30 | ng/ul  | 99 |
| 28) Naphthalene                | 10.95 | 128 | 390559 | 22.21 | ng/ul  | 98 |
| 30) 4-Chloroaniline            | 11.04 | 127 | 155245 | 22.87 | ng/ul  | 97 |
| 31) Hexachlorobutadiene        | 11.24 | 225 | 65539  | 11.25 | ng/ul  | 96 |
| 32) Caprolactam                | 11.79 | 113 | 23511  | 10.29 | ng/ul# | 56 |
| 33) 4-Chloro-3-methylphenol    | 12.14 | 107 | 136467 | 19.79 | ng/ul  | 95 |
| 34) 2-Methylnaphthalene        | 12.54 | 142 | 308053 | 22.58 | ng/ul  | 99 |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.90 | 216  | 139939   | 14.99 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.89 | 237  | 80201    | 21.79 | ng/ul  | 97       |
| 38) 2,4,6-Trichlorophenol      | 13.13 | 196  | 92912    | 18.03 | ng/ul  | 95       |
| 39) 2,4,5-Trichlorophenol      | 13.20 | 196  | 103429   | 18.56 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.54 | 154  | 413435   | 23.49 | ng/ul  | 100      |
| 41) 2-Chloronaphthalene        | 13.57 | 162  | 298109   | 21.25 | ng/ul  | 95       |
| 42) 2-Nitroaniline             | 13.77 | 65   | 83364    | 15.40 | ng/ul  | 87       |
| 44) Dimethylphthalate          | 14.14 | 163  | 414365   | 22.06 | ng/ul# | 99       |
| 45) 2,6-Dinitrotoluene         | 14.25 | 165  | 72254    | 18.49 | ng/ul  | 98       |
| 47) Acenaphthylene             | 14.42 | 152  | 509862   | 24.84 | ng/ul  | 98       |
| 48) 3-Nitroaniline             | 14.58 | 138  | 82862    | 24.86 | ng/ul  | 98       |
| 49) Acenaphthene               | 14.75 | 153  | 359216   | 24.81 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.78 | 184  | 34647    | 16.25 | ng/ul  | 96       |
| 52) 4-Nitrophenol              | 14.87 | 109  | 48160    | 13.49 | ng/ul# | 63       |
| 53) Dibenzofuran               | 15.09 | 168  | 505363   | 22.58 | ng/ul  | 92       |
| 54) 2,4-Dinitrotoluene         | 15.03 | 165  | 108541   | 18.60 | ng/ul  | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.31 | 232  | 97962    | 17.00 | ng/ul  | 95       |
| 56) Diethylphthalate           | 15.50 | 149  | 432441   | 21.96 | ng/ul  | 98       |
| 58) Fluorene                   | 15.73 | 166  | 424271   | 23.42 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.72 | 204  | 192147   | 18.50 | ng/ul  | 89       |
| 60) 4-Nitroaniline             | 15.73 | 138  | 97161    | 29.25 | ng/ul# | 79       |
| 63) 4,6-Dinitro-2-methylphenol | 15.79 | 198  | 61780    | 15.58 | ng/ul# | 95       |
| 64) N-Nitrosodiphenylamine     | 15.93 | 169  | 369739   | 23.59 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.62 | 248  | 124952   | 17.53 | ng/ul# | 89       |
| 66) Hexachlorobenzene          | 16.73 | 284  | 134466   | 16.23 | ng/ul  | 96       |
| 67) Atrazine                   | 16.87 | 200  | 133527   | 18.05 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 17.07 | 266  | 81256    | 22.47 | ng/ul  | 99       |
| 69) Phenanthrene               | 17.47 | 178  | 697827   | 23.53 | ng/ul  | 99       |
| 71) Anthracene                 | 17.56 | 178  | 704424   | 23.53 | ng/ul  | 98       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.50 | 216  | 136893   | 16.02 | ng/uL  | 100      |
| 73) Pentachlorobenzene         | 15.01 | 250  | 145262   | 16.32 | ng/uL  | 97       |
| 74) Carbazole                  | 17.81 | 167  | 657583   | 26.35 | ng/ul  | 96       |
| 75) Di-n-butylphthalate        | 18.38 | 149  | 721277   | 22.32 | ng/ul# | 99       |
| 76) Fluoranthene               | 19.46 | 202  | 772622   | 20.90 | ng/ul  | 97       |
| 79) Pvrene                     | 19.82 | 202  | 793141   | 28.31 | ng/ul  | 96       |
| 80) Butylbenzylphthalate       | 20.71 | 149  | 286619   | 25.12 | ng/ul  | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.57 | 252  | 241371   | 20.90 | ng/ul  | 98       |
| 82) Benzo(a)anthracene         | 21.66 | 228  | 724322   | 22.66 | ng/ul  | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.57 | 149  | 430514   | 26.19 | ng/ul  | 96       |
| 84) Chrysene                   | 21.72 | 228  | 688832   | 22.77 | ng/ul  | 97       |
| 86) Di-n-octyl phthalate       | 22.79 | 149  | 727945   | 29.42 | ng/ul  | 97       |
| 87) Benzo(b)fluoranthene       | 23.87 | 252  | 711126   | 24.07 | ng/ul  | 99       |
| 88) Benzo(k)fluoranthene       | 23.94 | 252  | 702216   | 24.70 | ng/ul  | 98       |
| 90) Benzo(a)pyrene             | 24.74 | 252  | 690035   | 24.13 | ng/ul  | 96       |
| 91) Indeno(1,2,3-cd)pyrene     | 28.54 | 276  | 804476   | 22.26 | ng/ul# | 92       |
| 92) Dibenzo(a,h)anthracene     | 28.61 | 278  | 678524   | 22.36 | ng/ul  | 99       |
| 93) Benzo(g,h,i)perylene       | 29.69 | 276  | 668979   | 22.30 | ng/ul  | 99       |

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

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