

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG030816\  
 Data File : BG021393.D  
 Acq On : 9 Mar 2016 11:05  
 Operator : UM/SJ  
 Sample : SSTDCCC020EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD02023

Quant Time: Mar 09 12:00:42 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG030316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Mar 09 02:03:52 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.13  | 152  | 13776    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.94 | 136  | 65262    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.74 | 164  | 36736    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.48 | 188  | 80362    | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.75 | 240  | 86438    | 20.00 | ng/ul | 0.01     |
| 86) Perylene-d12          | 25.02 | 264  | 81680    | 20.00 | ng/ul | 0.03     |

## System Monitoring Compounds

|                                |       |     |       |       |       |      |
|--------------------------------|-------|-----|-------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.53  | 96  | 2421  | 7.33  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.28  | 99  | 27731 | 19.19 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.45  | 67  | 18153 | 19.02 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.66  | 132 | 21111 | 20.95 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.83  | 113 | 22260 | 19.53 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.29  | 128 | 10218 | 19.57 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 11063 | 19.96 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.56 | 165 | 19734 | 19.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.07 | 131 | 25213 | 20.32 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.14 | 166 | 56910 | 18.74 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.44 | 160 | 76274 | 19.90 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.93 | 143 | 10219 | 17.08 | ng/ul | 0.01 |
| 58) Fluorene-d10               | 15.73 | 176 | 51458 | 19.12 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.85 | 200 | 7795  | 13.82 | ng/ul | 0.01 |
| 71) Anthracene-d10             | 17.58 | 188 | 77390 | 19.54 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.85 | 212 | 82704 | 19.14 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.79 | 264 | 84551 | 19.45 | ng/ul | 0.02 |

## Target Compounds

|                                |       |     |       |       |        | Qvalue |
|--------------------------------|-------|-----|-------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.57  | 88  | 2950  | 7.23  | ng/uL  | 97     |
| 4) Benzaldehyde                | 7.27  | 77  | 13754 | 15.74 | ng/ul  | 96     |
| 6) Phenol                      | 7.31  | 94  | 30126 | 19.39 | ng/ul  | 98     |
| 8) Bis(2-Chloroethyl)ether     | 7.54  | 93  | 21399 | 18.64 | ng/ul  | 96     |
| 10) 2-Chlorophenol             | 7.69  | 128 | 22217 | 20.61 | ng/ul  | 97     |
| 11) 2-Methylphenol             | 8.56  | 108 | 22198 | 19.28 | ng/ul  | 98     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.66  | 45  | 33988 | 19.54 | ng/ul  | 98     |
| 14) Acetophenone               | 8.95  | 105 | 35851 | 18.75 | ng/ul  | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.93  | 70  | 21914 | 18.55 | ng/ul# | 99     |
| 16) 4-Methylphenol             | 8.89  | 108 | 24792 | 19.44 | ng/ul  | 99     |
| 17) Hexachloroethane           | 9.22  | 117 | 9763  | 20.81 | ng/ul  | 94     |
| 20) Nitrobenzene               | 9.34  | 77  | 33438 | 19.98 | ng/ul  | 99     |
| 21) Isophorone                 | 9.86  | 82  | 57252 | 18.61 | ng/ul  | 97     |
| 23) 2-Nitrophenol              | 10.05 | 139 | 12781 | 20.06 | ng/ul  | 91     |
| 24) 2,4-Dimethylphenol         | 10.10 | 107 | 28597 | 19.11 | ng/ul  | 97     |
| 25) Bis(2-Chloroethoxy)methane | 10.34 | 93  | 29426 | 18.27 | ng/ul  | 96     |
| 27) 2,4-Dichlorophenol         | 10.58 | 162 | 19903 | 19.36 | ng/ul# | 88     |
| 28) Naphthalene                | 10.99 | 128 | 70068 | 19.31 | ng/ul  | 97     |
| 30) 4-Chloroaniline            | 11.10 | 127 | 27174 | 20.03 | ng/ul  | 93     |
| 31) Hexachlorobutadiene        | 11.27 | 225 | 13799 | 19.75 | ng/ul  | 88     |
| 32) Caprolactam                | 11.85 | 113 | 7459  | 18.90 | ng/ul  | 89     |
| 33) 4-Chloro-3-methylphenol    | 12.21 | 107 | 26355 | 18.93 | ng/ul  | 97     |
| 34) 2-Methylnaphthalene        | 12.58 | 142 | 49253 | 18.83 | ng/ul  | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 35) 1-Methylnaphthalene        | 12.80 | 142  | 45817    | 18.65 | ng/ul  | 96       |
| 37) 1,2,4,5-Tetrachlorobenzene | 12.95 | 216  | 25840    | 20.65 | ng/ul  | 98       |
| 38) Hexachlorocyclopentadiene  | 12.92 | 237  | 8654     | 10.50 | ng/ul  | 98       |
| 39) 2,4,6-Trichlorophenol      | 13.18 | 196  | 17000    | 20.05 | ng/ul  | 96       |
| 40) 2,4,5-Trichlorophenol      | 13.25 | 196  | 18622    | 20.44 | ng/ul  | 92       |
| 41) 1,1'-Biphenyl              | 13.58 | 154  | 62465    | 19.66 | ng/ul  | 99       |
| 42) 2-Chloronaphthalene        | 13.62 | 162  | 49633    | 20.44 | ng/ul  | 98       |
| 43) 2-Nitroaniline             | 13.83 | 65   | 21543    | 20.53 | ng/ul  | 93       |
| 45) Dimethylphthalate          | 14.19 | 163  | 61513    | 18.82 | ng/ul# | 98       |
| 46) 2,6-Dinitrotoluene         | 14.32 | 165  | 12745    | 18.95 | ng/ul  | 89       |
| 48) Acenaphthylene             | 14.47 | 152  | 77704    | 19.57 | ng/ul  | 98       |
| 49) 3-Nitroaniline             | 14.64 | 138  | 12563    | 19.20 | ng/ul# | 89       |
| 50) Acenaphthene               | 14.80 | 153  | 53940    | 19.85 | ng/ul  | 97       |
| 51) 2,4-Dinitrophenol          | 14.86 | 184  | 5163     | 11.39 | ng/ul  | 96       |
| 53) 4-Nitrophenol              | 14.94 | 109  | 12841    | 17.67 | ng/ul  | 96       |
| 54) Dibenzofuran               | 15.14 | 168  | 71726    | 19.36 | ng/ul  | 100      |
| 55) 2,4-Dinitrotoluene         | 15.10 | 165  | 18980    | 18.99 | ng/ul  | 98       |
| 56) 2,3,4,6-Tetrachlorophenol  | 15.36 | 232  | 15084    | 18.59 | ng/ul  | 97       |
| 57) Diethylphthalate           | 15.54 | 149  | 65929    | 18.30 | ng/ul  | 98       |
| 59) Fluorene                   | 15.78 | 166  | 61055    | 18.87 | ng/ul  | 92       |
| 60) 4-Chlorophenyl-phenylether | 15.77 | 204  | 29937    | 18.62 | ng/ul  | 95       |
| 61) 4-Nitroaniline             | 15.80 | 138  | 12784    | 16.65 | ng/ul  | 94       |
| 64) 4,6-Dinitro-2-methylphenol | 15.87 | 198  | 8381     | 13.72 | ng/ul  | 91       |
| 65) N-Nitrosodiphenylamine     | 15.98 | 169  | 52573    | 20.12 | ng/ul  | 93       |
| 66) 4-Bromophenyl-phenylether  | 16.67 | 248  | 17890    | 20.01 | ng/ul  | 97       |
| 67) Hexachlorobenzene          | 16.79 | 284  | 18874    | 21.54 | ng/ul  | 96       |
| 68) Atrazine                   | 16.92 | 200  | 18826    | 18.93 | ng/ul  | 99       |
| 69) Pentachlorophenol          | 17.13 | 266  | 10543    | 17.77 | ng/ul  | 92       |
| 70) Phenanthrene               | 17.52 | 178  | 91527    | 19.18 | ng/ul  | 99       |
| 72) Anthracene                 | 17.61 | 178  | 94643    | 19.52 | ng/ul  | 98       |
| 73) 1,2,3,4-Tetrachlorobenzene | 13.55 | 216  | 23788    | 22.04 | ng/uL# | 87       |
| 74) Pentachlorobenzene         | 15.06 | 250  | 22845    | 21.32 | ng/uL  | 95       |
| 75) Carbazole                  | 17.88 | 167  | 82471    | 19.48 | ng/ul  | 99       |
| 76) Di-n-butylphthalate        | 18.42 | 149  | 111888   | 19.60 | ng/ul  | 99       |
| 77) Fluoranthene               | 19.52 | 202  | 103622   | 18.47 | ng/ul  | 98       |
| 80) Pyrene                     | 19.88 | 202  | 108822   | 18.98 | ng/ul  | 99       |
| 81) Butylbenzylphthalate       | 20.75 | 149  | 52121    | 20.06 | ng/ul  | 98       |
| 82) 3,3'-Dichlorobenzidine     | 21.64 | 252  | 34665    | 18.91 | ng/ul  | 97       |
| 83) Benzo(a)anthracene         | 21.72 | 228  | 107322   | 19.34 | ng/ul  | 97       |
| 84) Bis(2-ethylhexyl)phthalate | 21.61 | 149  | 75472    | 19.56 | ng/ul  | 97       |
| 85) Chrysene                   | 21.80 | 228  | 99995    | 19.31 | ng/ul  | 99       |
| 87) Di-n-octyl phthalate       | 22.83 | 149  | 131988   | 19.67 | ng/ul  | 100      |
| 88) Benzo(b)fluoranthene       | 23.97 | 252  | 108512   | 19.52 | ng/ul  | 99       |
| 89) Benzo(k)fluoranthene       | 24.04 | 252  | 104497   | 19.38 | ng/ul  | 99       |
| 91) Benzo(a)pyrene             | 24.86 | 252  | 103167   | 19.18 | ng/ul  | 99       |
| 92) Indeno(1,2,3-cd)pyrene     | 28.73 | 276  | 44910    | 7.65  | ng/ul  | 100      |
| 93) Dibenzo(a,h)anthracene     | 28.79 | 278  | 87069    | 17.25 | ng/ul  | 99       |
| 94) Benzo(g,h,i)perylene       | 29.91 | 276  | 69361    | 15.74 | ng/ul  | 98       |

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| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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```