

Data Path : Z:\HPCHEM1\BNA G\Data\BG121716\  
 Data File : BG025269.D  
 Acq On : 17 Dec 2016 11:16  
 Operator : UM/SJ  
 Sample : SSTDC0020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 18 00:13:59 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Dec 17 00:22:48 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 99147    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 409674   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.85 | 164  | 306666   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 671444   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 885737   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.32 | 264  | 899403   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.58  | 96  | 14072  | 7.33  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.40  | 99  | 172020 | 20.11 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 106871 | 20.20 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 120882 | 20.21 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.95  | 113 | 140913 | 19.71 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.42  | 128 | 63089  | 21.75 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 73935  | 20.44 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.69 | 165 | 145471 | 20.91 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 158052 | 23.12 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 429766 | 20.37 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.55 | 160 | 503301 | 21.78 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.08 | 143 | 68702  | 18.95 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.85 | 176 | 396201 | 19.95 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.98 | 200 | 88360  | 21.28 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.70 | 188 | 602454 | 21.26 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.98 | 212 | 757440 | 20.76 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.08 | 264 | 798514 | 21.91 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Ovalue |    |
|--------------------------------|-------|-----|--------|-------|--------|----|
| 2) 1,4-Dioxane                 | 3.62  | 88  | 20523  | 8.21  | ng/uL# | 84 |
| 4) Benzaldehyde                | 7.37  | 77  | 136751 | 21.24 | ng/ul  | 97 |
| 6) Phenol                      | 7.42  | 94  | 179186 | 20.41 | ng/ul  | 98 |
| 8) Bis(2-Chloroethyl)ether     | 7.64  | 93  | 125515 | 19.54 | ng/ul  | 92 |
| 10) 2-Chlorophenol             | 7.80  | 128 | 121793 | 20.25 | ng/ul  | 94 |
| 11) 2-Methylphenol             | 8.68  | 108 | 127519 | 19.73 | ng/ul  | 98 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.76  | 45  | 238933 | 21.87 | ng/ul  | 98 |
| 14) Acetophenone               | 9.07  | 105 | 210646 | 19.36 | ng/ul  | 95 |
| 15) N-Nitroso-di-n-propylamine | 9.04  | 70  | 121138 | 19.28 | ng/ul# | 91 |
| 16) 4-Methylphenol             | 9.01  | 108 | 137464 | 19.12 | ng/ul  | 91 |
| 17) Hexachloroethane           | 9.31  | 117 | 56151  | 21.08 | ng/ul  | 95 |
| 20) Nitrobenzene               | 9.46  | 77  | 192155 | 21.55 | ng/ul  | 97 |
| 21) Isophorone                 | 9.98  | 82  | 326218 | 19.34 | ng/ul  | 96 |
| 23) 2-Nitrophenol              | 10.17 | 139 | 77079  | 21.01 | ng/ul# | 85 |
| 24) 2,4-Dimethylphenol         | 10.22 | 107 | 177123 | 21.11 | ng/ul  | 94 |
| 25) Bis(2-Chloroethoxy)methane | 10.45 | 93  | 171588 | 19.96 | ng/ul  | 95 |
| 27) 2,4-Dichlorophenol         | 10.71 | 162 | 142043 | 21.03 | ng/ul  | 94 |
| 28) Naphthalene                | 11.12 | 128 | 389746 | 20.47 | ng/ul  | 98 |
| 30) 4-Chloroaniline            | 11.23 | 127 | 157902 | 22.60 | ng/ul  | 99 |
| 31) Hexachlorobutadiene        | 11.37 | 225 | 126133 | 21.73 | ng/ul  | 97 |
| 32) Caprolactam                | 12.00 | 113 | 45737  | 16.31 | ng/ul  | 86 |
| 33) 4-Chloro-3-methylphenol    | 12.34 | 107 | 163334 | 19.62 | ng/ul  | 96 |
| 34) 2-Methylnaphthalene        | 12.70 | 142 | 292148 | 19.44 | ng/ul  | 91 |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.06 | 216  | 209284   | 22.64 | ng/ul# | 92       |
| 37) Hexachlorocyclopentadiene  | 13.03 | 237  | 87487    | 16.12 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 13.31 | 196  | 127541   | 21.97 | ng/ul  | 89       |
| 39) 2,4,5-Trichlorophenol      | 13.38 | 196  | 135443   | 21.28 | ng/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.69 | 154  | 406751   | 21.88 | ng/ul  | 97       |
| 41) 2-Chloronaphthalene        | 13.74 | 162  | 325955   | 22.02 | ng/ul  | 96       |
| 42) 2-Nitroaniline             | 13.95 | 65   | 132834   | 22.93 | ng/ul  | 94       |
| 44) Dimethylphthalate          | 14.30 | 163  | 415588   | 20.05 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 14.44 | 165  | 92633    | 20.80 | ng/ul# | 91       |
| 47) Acenaphthylene             | 14.59 | 152  | 482346   | 21.47 | ng/ul  | 97       |
| 48) 3-Nitroaniline             | 14.78 | 138  | 86684    | 22.47 | ng/ul# | 80       |
| 49) Acenaphthene               | 14.92 | 153  | 343501   | 22.32 | ng/ul  | 94       |
| 50) 2,4-Dinitrophenol          | 15.00 | 184  | 38950    | 13.46 | ng/ul# | 80       |
| 52) 4-Nitrophenol              | 15.10 | 109  | 96621    | 22.16 | ng/ul  | 95       |
| 53) Dibenzofuran               | 15.25 | 168  | 505010   | 20.75 | ng/ul  | 97       |
| 54) 2,4-Dinitrotoluene         | 15.23 | 165  | 136837   | 20.38 | ng/ul  | 97       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.48 | 232  | 140456   | 20.89 | ng/ul  | 97       |
| 56) Diethylphthalate           | 15.65 | 149  | 433840   | 19.76 | ng/ul  | 96       |
| 58) Fluorene                   | 15.90 | 166  | 401712   | 20.27 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.88 | 204  | 224512   | 20.12 | ng/ul  | 87       |
| 60) 4-Nitroaniline             | 15.94 | 138  | 96929    | 20.83 | ng/ul  | 91       |
| 63) 4,6-Dinitro-2-methylphenol | 15.99 | 198  | 93902    | 21.84 | ng/ul# | 94       |
| 64) N-Nitrosodiphenylamine     | 16.10 | 169  | 377424   | 21.85 | ng/ul  | 96       |
| 65) 4-Bromophenyl-phenylether  | 16.78 | 248  | 171340   | 22.59 | ng/ul  | 97       |
| 66) Hexachlorobenzene          | 16.90 | 284  | 187533   | 21.96 | ng/ul  | 96       |
| 67) Atrazine                   | 17.04 | 200  | 166237   | 20.24 | ng/ul  | 97       |
| 68) Pentachlorophenol          | 17.26 | 266  | 101827   | 19.86 | ng/ul  | 96       |
| 69) Phenanthrene               | 17.64 | 178  | 685102   | 21.38 | ng/ul  | 100      |
| 71) Anthracene                 | 17.74 | 178  | 707757   | 21.48 | ng/ul  | 98       |
| 72) Carbazole                  | 18.01 | 167  | 629436   | 22.90 | ng/ul  | 100      |
| 73) Di-n-butylphthalate        | 18.52 | 149  | 722324   | 20.81 | ng/ul  | 98       |
| 74) Fluoranthene               | 19.64 | 202  | 873868   | 22.95 | ng/ul  | 98       |
| 77) Pyrene                     | 20.01 | 202  | 885386   | 20.79 | ng/ul# | 97       |
| 78) Butylbenzylphthalate       | 20.85 | 149  | 354406   | 21.26 | ng/ul  | 96       |
| 79) 3,3'-Dichlorobenzidine     | 21.78 | 252  | 382755   | 24.79 | ng/ul  | 96       |
| 80) Benzo(a)anthracene         | 21.88 | 228  | 980465   | 21.31 | ng/ul  | 98       |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149  | 483061   | 21.05 | ng/ul  | 97       |
| 82) Chrysene                   | 21.94 | 228  | 921318   | 21.40 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.98 | 149  | 831372   | 22.77 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 24.22 | 252  | 978462   | 21.94 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 24.29 | 252  | 913274   | 21.54 | ng/ul  | 100      |
| 88) Benzo(a)pyrene             | 25.16 | 252  | 926462   | 21.61 | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 29.27 | 276  | 1158502m | 21.74 | ng/ul  |          |
| 90) Dibenzo(a,h)anthracene     | 29.32 | 278  | 970393m  | 21.61 | ng/ul  |          |
| 91) Benzo(g,h,i)perylene       | 30.51 | 276  | 915248m  | 20.58 | ng/ul  |          |

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

