

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\  
 Data File : BG020986.D  
 Acq On : 20 Feb 2016 00:11  
 Operator : SJ/UM  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 20 01:32:58 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 11 15:26:53 2016  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                     | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------------|--------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000 | 0.0   | 109   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 36.509 | 8.7   | 102   | -0.01    |
| 3    | Pyridine                     | 40.000 | 38.964 | 2.6   | 102   | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 37.910 | 5.2   | 101   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.920 | 1.3   | 107   | 0.00     |
| 6    | Aniline                      | 40.000 | 40.826 | -2.1  | 110   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 84.452 | -5.6  | 113   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 41.694 | -4.2  | 113   | -0.01    |
| 9    | Benzaldehyde                 | 40.000 | 37.838 | 5.4   | 102   | 0.00     |
| 10 C | Phenol                       | 40.000 | 41.764 | -4.4  | 113   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.742 | 0.6   | 106   | -0.01    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.131 | -0.3  | 110   | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.150 | -2.9  | 111   | -0.01    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 41.135 | -2.8  | 111   | -0.01    |
| 15   | Benzyl Alcohol               | 40.000 | 41.084 | -2.7  | 110   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.486 | 3.8   | 104   | -0.01    |
| 17   | 2-Methylphenol               | 40.000 | 41.841 | -4.6  | 113   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 41.241 | -3.1  | 111   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 41.186 | -3.0  | 112   | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 42.825 | -7.1  | 117   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 117   | -0.01    |
| 22   | Acetophenone                 | 40.000 | 39.141 | 2.1   | 113   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 78.953 | 1.3   | 113   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.144 | 2.1   | 114   | 0.00     |
| 25   | Isophorone                   | 40.000 | 39.847 | 0.4   | 115   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 44.504 | -11.3 | 123   | -0.01    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.156 | 2.1   | 111   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.494 | 1.3   | 114   | -0.01    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 42.410 | -6.0  | 124   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.941 | -2.4  | 119   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 40.277 | -0.7  | 117   | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 42.615 | -6.5  | 126   | 0.01     |
| 33   | 4-Chloroaniline              | 40.000 | 41.367 | -3.4  | 120   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 40.506 | -1.3  | 118   | -0.01    |
| 35   | Caprolactam                  | 40.000 | 42.295 | -5.7  | 124   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 42.497 | -6.2  | 124   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 41.448 | -3.6  | 122   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 124   | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 40.351 | -0.9  | 124   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 35.189 | 12.0  | 105   | -0.01    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 85.794 | -7.2  | 132   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 42.151 | -5.4  | 127   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 42.327 | -5.8  | 129   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 80.834 | -1.0  | 124   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 40.247 | -0.6  | 124   | -0.01    |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.525 | -1.3  | 125   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 40.856 | -2.1  | 124   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 40.574 | -1.4  | 125   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 40.984 | -2.5  | 126   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 42.433 | -6.1  | 130   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 41.232 | -3.1  | 127   | -0.01    |
| 52   | 3-Nitroaniline             | 40.000 | 40.693 | -1.7  | 124   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 44.754 | -11.9 | 153   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 40.811 | -2.0  | 127   | -0.01    |
| 55 P | 4-Nitrophenol              | 40.000 | 41.851 | -4.6  | 125   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 43.229 | -8.1  | 130   | 0.00     |
| 57   | Fluorene                   | 40.000 | 40.398 | -1.0  | 125   | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.855 | -4.6  | 129   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 40.754 | -1.9  | 127   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.755 | -1.9  | 129   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 40.460 | -1.2  | 123   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 38.848 | 2.9   | 120   | -0.01    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 125   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 43.422 | -8.6  | 141   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 41.418 | -3.5  | 126   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 42.501 | -6.3  | 130   | -0.01    |
| 67   | Hexachlorobenzene          | 40.000 | 41.927 | -4.8  | 130   | -0.01    |
| 68   | Atrazine                   | 40.000 | 40.697 | -1.7  | 126   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 42.199 | -5.5  | 130   | -0.01    |
| 70   | Phenanthrene               | 40.000 | 40.553 | -1.4  | 126   | -0.01    |
| 71   | Anthracene                 | 40.000 | 40.535 | -1.3  | 125   | -0.01    |
| 72   | Carbazole                  | 40.000 | 40.389 | -1.0  | 125   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 40.234 | -0.6  | 124   | -0.01    |
| 74 C | Fluoranthene               | 40.000 | 40.476 | -1.2  | 125   | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 124   | -0.02    |
| 76   | Benzidine                  | 40.000 | 34.846 | 12.9  | 104   | 0.00     |
| 77   | Pyrene                     | 40.000 | 40.921 | -2.3  | 127   | -0.01    |
| 78 S | Terphenyl-d14              | 80.000 | 82.443 | -3.1  | 127   | -0.01    |
| 79   | Butylbenzylphthalate       | 40.000 | 41.272 | -3.2  | 125   | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 40.918 | -2.3  | 127   | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.240 | -0.6  | 123   | -0.01    |
| 82   | Chrysene                   | 40.000 | 40.666 | -1.7  | 126   | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.504 | -1.3  | 124   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 40.917 | -2.3  | 124   | -0.03    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 41.398 | -3.5  | 126   | -0.05    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 125   | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.239 | -3.1  | 128   | -0.02    |

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|      | Compound               | Amount | Calc.  | %Dev | Area | % Dev(min) |
|------|------------------------|--------|--------|------|------|------------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 40.088 | -0.2 | 126  | -0.02      |
| 89 C | Benzo(a)pyrene         | 40.000 | 40.727 | -1.8 | 127  | -0.03      |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.552 | -1.4 | 127  | -0.06      |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 40.334 | -0.8 | 126  | -0.06      |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0