

Data Path : Z:\HPCHEM1\BNA G\DATA\BG061716\  
 Data File : BG022397.D  
 Acq On : 17 Jun 2016 21:08  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 20 14:49:58 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 17:40:23 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    | 157   | -0.05    |
| 2    | 1,4-Dioxane                  | 40.000 | 42.902 | -7.3   | 182   | -0.06    |
| 3    | Pyridine                     | 40.000 | 44.523 | -11.3  | 172   | -0.05    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 52.440 | -31.1# | 197   | -0.06    |
| 5 S  | 2-Fluorophenol               | 80.000 | 92.091 | -15.1  | 174   | -0.03    |
| 6    | Aniline                      | 40.000 | 44.860 | -12.1  | 165   | -0.04    |
| 7 S  | Phenol-d6                    | 80.000 | 86.313 | -7.9   | 161   | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 41.799 | -4.5   | 159   | -0.03    |
| 9    | Benzaldehyde                 | 40.000 | 43.336 | -8.3   | 159   | -0.04    |
| 10 C | Phenol                       | 40.000 | 42.688 | -6.7   | 161   | -0.02    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 45.200 | -13.0  | 172   | -0.04    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.173 | -0.4   | 158   | -0.05    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.348 | -3.4   | 161   | -0.04    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.872 | 0.3    | 158   | -0.04    |
| 15   | Benzyl Alcohol               | 40.000 | 45.112 | -12.8  | 174   | -0.04    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 48.487 | -21.2  | 191   | -0.04    |
| 17   | 2-Methylphenol               | 40.000 | 42.283 | -5.7   | 165   | -0.02    |
| 18   | Hexachloroethane             | 40.000 | 43.386 | -8.5   | 173   | -0.05    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 45.775 | -14.4  | 169   | -0.04    |
| 20   | 3+4-Methylphenols            | 40.000 | 40.056 | -0.1   | 156   | -0.02    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 150   | -0.04    |
| 22   | Acetophenone                 | 40.000 | 43.559 | -8.9   | 159   | -0.04    |
| 23 S | Nitrobenzene-d5              | 80.000 | 91.842 | -14.8  | 167   | -0.04    |
| 24   | Nitrobenzene                 | 40.000 | 45.402 | -13.5  | 166   | -0.04    |
| 25   | Isophorone                   | 40.000 | 41.729 | -4.3   | 158   | -0.04    |
| 26 C | 2-Nitrophenol                | 40.000 | 45.435 | -13.6  | 161   | -0.04    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 41.453 | -3.6   | 152   | -0.03    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 42.865 | -7.2   | 159   | -0.04    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.565 | -3.9   | 147   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 38.916 | 2.7    | 144   | -0.05    |
| 31   | Naphthalene                  | 40.000 | 39.814 | 0.5    | 154   | -0.04    |
| 32   | Benzoic acid                 | 40.000 | 55.128 | -37.8# | 236   | 0.03     |
| 33   | 4-Chloroaniline              | 40.000 | 40.307 | -0.8   | 148   | -0.04    |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.125 | 2.2    | 153   | -0.05    |
| 35   | Caprolactam                  | 40.000 | 34.386 | 14.0   | 129   | -0.03    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.608 | -4.0   | 151   | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.662 | 0.8    | 148   | -0.04    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 137   | -0.04    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 40.216 | -0.5   | 137   | -0.04    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 46.984 | -17.5  | 168   | -0.05    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 69.974 | 12.5   | 117   | -0.04    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.928 | -4.8   | 138   | -0.04    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.946 | 0.1    | 136   | -0.02    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 82.204 | -2.8   | 139   | -0.04    |

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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 | 42.211 | -5.5   | 140   | -0.04    |
| 46   | 2-Chloronaphthalene        | 40.000 | 41.876 | -4.7   | 140   | -0.04    |
| 47   | 2-Nitroaniline             | 40.000 | 47.502 | -18.8  | 157   | -0.03    |
| 48   | Acenaphthylene             | 40.000 | 40.185 | -0.5   | 138   | -0.04    |
| 49   | Dimethylphthalate          | 40.000 | 38.160 | 4.6    | 133   | -0.03    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 40.528 | -1.3   | 135   | -0.03    |
| 51 C | Acenaphthene               | 40.000 | 40.284 | -0.7   | 139   | -0.04    |
| 52   | 3-Nitroaniline             | 40.000 | 38.354 | 4.1    | 140   | -0.02    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 61.765 | -54.4# | 246   | -0.03    |
| 54   | Dibenzofuran               | 40.000 | 39.576 | 1.1    | 135   | -0.04    |
| 55 P | 4-Nitrophenol              | 40.000 | 48.360 | -20.9  | 153   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 41.696 | -4.2   | 134   | -0.03    |
| 57   | Fluorene                   | 40.000 | 39.027 | 2.4    | 134   | -0.04    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 36.064 | 9.8    | 126   | -0.03    |
| 59   | Diethylphthalate           | 40.000 | 38.362 | 4.1    | 135   | -0.04    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 39.239 | 1.9    | 133   | -0.04    |
| 61   | 4-Nitroaniline             | 40.000 | 32.748 | 18.1   | 111   | -0.02    |
| 62   | Azobenzene                 | 40.000 | 43.590 | -9.0   | 150   | -0.04    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 127   | -0.04    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 44.776 | -11.9  | 144   | -0.03    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 42.847 | -7.1   | 131   | -0.03    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 41.329 | -3.3   | 127   | -0.04    |
| 67   | Hexachlorobenzene          | 40.000 | 37.722 | 5.7    | 118   | -0.04    |
| 68   | Atrazine                   | 40.000 | 36.907 | 7.7    | 116   | -0.04    |
| 69 C | Pentachlorophenol          | 40.000 | 45.028 | -12.6  | 155   | -0.03    |
| 70   | Phenanthrene               | 40.000 | 40.058 | -0.1   | 128   | -0.04    |
| 71   | Anthracene                 | 40.000 | 41.127 | -2.8   | 128   | -0.04    |
| 72   | Carbazole                  | 40.000 | 38.541 | 3.6    | 122   | -0.03    |
| 73   | Di-n-butylphthalate        | 40.000 | 38.095 | 4.8    | 122   | -0.04    |
| 74 C | Fluoranthene               | 40.000 | 34.811 | 13.0   | 113   | -0.04    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 87    | -0.04    |
| 76   | Benzidine                  | 40.000 | 41.305 | -3.3   | 80    | -0.02    |
| 77   | Pyrene                     | 40.000 | 49.401 | -23.5  | 107   | -0.04    |
| 78 S | Terphenyl-d14              | 80.000 | 92.727 | -15.9  | 99    | -0.04    |
| 79   | Butylbenzylphthalate       | 40.000 | 47.310 | -18.3  | 102   | -0.04    |
| 80   | Benzo(a)anthracene         | 40.000 | 40.888 | -2.2   | 90    | -0.05    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 41.489 | -3.7   | 86    | -0.04    |
| 82   | Chrysene                   | 40.000 | 41.598 | -4.0   | 92    | -0.04    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 47.900 | -19.7  | 104   | -0.05    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 47.488 | -18.7  | 102   | -0.06    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.145 | 2.1    | 84    | -0.11    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 85    | -0.08    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.802 | -4.5   | 88    | -0.06    |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 41.230 | -3.1 | 87    | -0.07    |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.900 | -4.7 | 87    | -0.08    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.228 | -0.6 | 83    | -0.12    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 39.421 | 1.4  | 83    | -0.11    |

(#) = Out of Range

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