

Data Path : Z:\HPCHEM1\BNA G\DATA\BG120315\  
 Data File : BG019891.D  
 Acq On : 4 Dec 2015 4:25  
 Operator : UM/NP  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 04 05:02:12 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 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   | 143   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 42.864 | -7.2  | 155   | 0.00     |
| 3    | Pyridine                     | 40.000 | 43.918 | -9.8  | 157   | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 39.940 | 0.2   | 135   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 84.386 | -5.5  | 152   | -0.01    |
| 6    | Aniline                      | 40.000 | 42.149 | -5.4  | 148   | -0.01    |
| 7 S  | Phenol-d6                    | 80.000 | 85.087 | -6.4  | 152   | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 41.693 | -4.2  | 148   | -0.01    |
| 9    | Benzaldehyde                 | 40.000 | 40.026 | -0.1  | 144   | -0.01    |
| 10 C | Phenol                       | 40.000 | 41.975 | -4.9  | 148   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 42.200 | -5.5  | 152   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 41.143 | -2.9  | 148   | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.909 | 0.2   | 145   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 41.562 | -3.9  | 150   | -0.01    |
| 15   | Benzyl Alcohol               | 40.000 | 40.602 | -1.5  | 148   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 41.632 | -4.1  | 150   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 42.970 | -7.4  | 151   | -0.01    |
| 18   | Hexachloroethane             | 40.000 | 41.930 | -4.8  | 148   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 40.551 | -1.4  | 146   | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 42.147 | -5.4  | 146   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 147   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 40.589 | -1.5  | 147   | -0.01    |
| 23 S | Nitrobenzene-d5              | 80.000 | 84.581 | -5.7  | 153   | -0.01    |
| 24   | Nitrobenzene                 | 40.000 | 42.300 | -5.7  | 151   | -0.01    |
| 25   | Isophorone                   | 40.000 | 40.296 | -0.7  | 147   | -0.01    |
| 26 C | 2-Nitrophenol                | 40.000 | 44.784 | -12.0 | 160   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.265 | -0.7  | 148   | -0.01    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 41.971 | -4.9  | 154   | -0.01    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.372 | -3.4  | 149   | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.533 | 1.2   | 143   | -0.01    |
| 31   | Naphthalene                  | 40.000 | 40.986 | -2.5  | 149   | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 47.627 | -19.1 | 191   | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 40.267 | -0.7  | 148   | -0.01    |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.519 | 3.7   | 141   | -0.01    |
| 35   | Caprolactam                  | 40.000 | 40.442 | -1.1  | 152   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 40.693 | -1.7  | 150   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 40.769 | -1.9  | 149   | -0.01    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 147   | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.626 | 0.9   | 147   | -0.01    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 36.439 | 8.9   | 130   | -0.01    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 76.594 | 4.3   | 141   | -0.01    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 38.910 | 2.7   | 146   | -0.01    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.239 | 1.9   | 148   | -0.01    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 76.553 | 4.3   | 143   | -0.01    |

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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 | 38.713 | 3.2  | 142   | -0.01    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.985 | 2.5  | 144   | -0.01    |
| 47   | 2-Nitroaniline             | 40.000 | 42.665 | -6.7 | 154   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 38.733 | 3.2  | 144   | -0.01    |
| 49   | Dimethylphthalate          | 40.000 | 37.483 | 6.3  | 141   | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 41.815 | -4.5 | 148   | -0.01    |
| 51 C | Acenaphthene               | 40.000 | 39.291 | 1.8  | 145   | -0.01    |
| 52   | 3-Nitroaniline             | 40.000 | 42.181 | -5.5 | 152   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 39.657 | 0.9  | 163   | -0.01    |
| 54   | Dibenzofuran               | 40.000 | 37.828 | 5.4  | 141   | -0.01    |
| 55 P | 4-Nitrophenol              | 40.000 | 39.155 | 2.1  | 141   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 43.074 | -7.7 | 150   | -0.01    |
| 57   | Fluorene                   | 40.000 | 37.729 | 5.7  | 141   | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 38.000 | 5.0  | 137   | -0.01    |
| 59   | Diethylphthalate           | 40.000 | 36.116 | 9.7  | 137   | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 37.699 | 5.8  | 140   | -0.01    |
| 61   | 4-Nitroaniline             | 40.000 | 39.578 | 1.1  | 142   | -0.01    |
| 62   | Azobenzene                 | 40.000 | 37.644 | 5.9  | 140   | -0.01    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0  | 136   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 42.147 | -5.4 | 152   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 40.430 | -1.1 | 139   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 40.306 | -0.8 | 137   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 40.611 | -1.5 | 139   | -0.01    |
| 68   | Atrazine                   | 40.000 | 39.190 | 2.0  | 132   | -0.01    |
| 69 C | Pentachlorophenol          | 40.000 | 43.780 | -9.5 | 148   | -0.01    |
| 70   | Phenanthrene               | 40.000 | 39.541 | 1.1  | 135   | -0.01    |
| 71   | Anthracene                 | 40.000 | 39.829 | 0.4  | 136   | -0.01    |
| 72   | Carbazole                  | 40.000 | 38.788 | 3.0  | 132   | -0.01    |
| 73   | Di-n-butylphthalate        | 40.000 | 39.122 | 2.2  | 133   | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 38.736 | 3.2  | 131   | -0.01    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0  | 132   | -0.02    |
| 76   | Benzidine                  | 40.000 | 38.164 | 4.6  | 122   | -0.02    |
| 77   | Pyrene                     | 40.000 | 40.201 | -0.5 | 130   | -0.01    |
| 78 S | Terphenyl-d14              | 80.000 | 78.073 | 2.4  | 126   | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 41.077 | -2.7 | 133   | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 39.655 | 0.9  | 131   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 38.914 | 2.7  | 126   | -0.02    |
| 82   | Chrysene                   | 40.000 | 40.205 | -0.5 | 132   | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.790 | -2.0 | 135   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 42.282 | -5.7 | 137   | -0.04    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.784 | -7.0 | 141   | -0.07    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0  | 137   | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 38.899 | 2.8  | 134   | -0.04    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 39.432 | 1.4  | 137   | -0.03    |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.760 | 0.6  | 137   | -0.04    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.312 | -0.8 | 141   | -0.05    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 40.920 | -2.3 | 141   | -0.07    |

(#) = Out of Range

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