

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102416\  
 Data File : BF090794.D  
 Acq On : 24 Oct 2016 18:20  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 24 19:14:49 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 21 17:36:31 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    | 136   | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 31.752  | 20.6   | 111   | -0.06    |
| 3    | Pyridine                     | 40.000 | 42.552  | -6.4   | 135   | -0.06    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 36.411  | 9.0    | 122   | -0.06    |
| 5 S  | 2-Fluorophenol               | 80.000 | 82.424  | -3.0   | 125   | -0.02    |
| 6    | Aniline                      | 40.000 | 40.101  | -0.3   | 127   | -0.02    |
| 7 S  | Phenol-d6                    | 80.000 | 74.700  | 6.6    | 121   | -0.02    |
| 8    | 2-Chlorophenol               | 40.000 | 40.426  | -1.1   | 134   | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 36.952  | 7.6    | 130   | -0.02    |
| 10 C | Phenol                       | 40.000 | 34.833  | 12.9   | 110   | -0.02    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 38.394  | 4.0    | 129   | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 39.260  | 1.9    | 136   | -0.02    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.467  | 1.3    | 130   | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 37.706  | 5.7    | 135   | -0.02    |
| 15   | Benzyl Alcohol               | 40.000 | 37.941  | 5.1    | 118   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 30.570  | 23.6   | 104   | -0.02    |
| 17   | 2-Methylphenol               | 40.000 | 41.111  | -2.8   | 140   | -0.01    |
| 18   | Hexachloroethane             | 40.000 | 35.030  | 12.4   | 123   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 33.267  | 16.8   | 121   | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 37.561  | 6.1    | 118   | -0.02    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000  | 0.0    | 132   | -0.02    |
| 22   | Acetophenone                 | 40.000 | 38.542  | 3.6    | 125   | -0.02    |
| 23 S | Nitrobenzene-d5              | 80.000 | 78.245  | 2.2    | 126   | -0.01    |
| 24   | Nitrobenzene                 | 40.000 | 37.984  | 5.0    | 121   | -0.02    |
| 25   | Isophorone                   | 40.000 | 37.022  | 7.4    | 126   | -0.02    |
| 26 C | 2-Nitrophenol                | 40.000 | 47.429  | -18.6  | 154   | -0.02    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 41.481  | -3.7   | 137   | -0.01    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 41.508  | -3.8   | 142   | -0.01    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 45.525  | -13.8  | 142   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 42.914  | -7.3   | 138   | -0.02    |
| 31   | Naphthalene                  | 40.000 | 37.439  | 6.4    | 125   | -0.02    |
| 32   | Benzoic acid                 | 40.000 | 34.275  | 14.3   | 118   | -0.01    |
| 33   | 4-Chloroaniline              | 40.000 | 47.268  | -18.2  | 155   | -0.02    |
| 34 C | Hexachlorobutadiene          | 40.000 | 45.081  | -12.7  | 150   | -0.02    |
| 35   | Caprolactam                  | 40.000 | 45.032  | -12.6  | 147   | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 40.111  | -0.3   | 138   | -0.02    |
| 37   | 2-Methylnaphthalene          | 40.000 | 44.468  | -11.2  | 150   | -0.02    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000  | 0.0    | 151   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.687  | 0.8    | 142   | -0.02    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 36.102  | 9.7    | 130   | -0.02    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 103.405 | -29.3# | 182   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 42.734  | -6.8   | 149   | -0.02    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 44.053  | -10.1  | 166   | -0.02    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 73.408  | 8.2    | 144   | -0.02    |

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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 | 35.066 | 12.3  | 128   | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.162 | 4.6   | 144   | -0.01    |
| 47   | 2-Nitroaniline             | 40.000 | 32.762 | 18.1  | 115   | -0.02    |
| 48   | Acenaphthylene             | 40.000 | 38.867 | 2.8   | 147   | -0.02    |
| 49   | Dimethylphthalate          | 40.000 | 37.201 | 7.0   | 146   | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 40.322 | -0.8  | 139   | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 37.503 | 6.2   | 138   | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 38.015 | 5.0   | 136   | -0.02    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 35.423 | 11.4  | 127   | -0.01    |
| 54   | Dibenzofuran               | 40.000 | 40.837 | -2.1  | 148   | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 44.161 | -10.4 | 172   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 47.498 | -18.7 | 165   | -0.01    |
| 57   | Fluorene                   | 40.000 | 41.619 | -4.0  | 153   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 44.728 | -11.8 | 153   | -0.02    |
| 59   | Diethylphthalate           | 40.000 | 36.035 | 9.9   | 137   | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 41.617 | -4.0  | 140   | -0.02    |
| 61   | 4-Nitroaniline             | 40.000 | 41.447 | -3.6  | 157   | -0.02    |
| 62   | Azobenzene                 | 40.000 | 34.110 | 14.7  | 121   | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 174   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 33.838 | 15.4  | 149   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 38.700 | 3.2   | 162   | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 44.084 | -10.2 | 182   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 47.847 | -19.6 | 211   | -0.02    |
| 68   | Atrazine                   | 40.000 | 40.629 | -1.6  | 181   | -0.02    |
| 69 C | Pentachlorophenol          | 40.000 | 41.770 | -4.4  | 187   | -0.02    |
| 70   | Phenanthrene               | 40.000 | 40.698 | -1.7  | 175   | -0.02    |
| 71   | Anthracene                 | 40.000 | 38.536 | 3.7   | 159   | -0.02    |
| 72   | Carbazole                  | 40.000 | 41.902 | -4.8  | 172   | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 36.041 | 9.9   | 140   | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 44.075 | -10.2 | 191   | -0.01    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 191   | -0.01    |
| 76   | Benzidine                  | 40.000 | 46.603 | -16.5 | 202   | -0.01    |
| 77   | Pyrene                     | 40.000 | 38.627 | 3.4   | 195   | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 81.081 | -1.4  | 189   | -0.01    |
| 79   | Butylbenzylphthalate       | 40.000 | 36.966 | 7.6   | 169   | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 38.875 | 2.8   | 184   | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 43.638 | -9.1  | 198   | -0.01    |
| 82   | Chrysene                   | 40.000 | 40.811 | -2.0  | 188   | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 32.042 | 19.9  | 142   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 33.466 | 16.3  | 154   | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 33.022 | 17.4  | 149   | -0.03    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 166   | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 42.693 | -6.7  | 163   | -0.02    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 38.181 | 4.5  | 171   | -0.02    |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.672 | 0.8  | 162   | -0.03    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 36.539 | 8.7  | 143   | -0.03    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 36.255 | 9.4  | 146   | -0.05    |

(#) = Out of Range

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