

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012017\  
 Data File : BF092391.D  
 Acq On : 21 Jan 2017 2:08  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 21 03:55:52 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 20 22:22:14 2017  
 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    | 37    | -0.12    |
| 2    | 1,4-Dioxane                  | 40.000 | 71.280  | -78.2# | 66    | -0.17    |
| 3    | Pyridine                     | 40.000 | 38.658  | 3.4    | 35    | -0.21    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 43.264  | -8.2   | 39    | -0.20    |
| 5 S  | 2-Fluorophenol               | 80.000 | 95.269  | -19.1  | 46    | -0.13    |
| 6    | Aniline                      | 40.000 | 42.977  | -7.4   | 40    | -0.12    |
| 7 S  | Phenol-d6                    | 80.000 | 88.183  | -10.2  | 40    | -0.11    |
| 8    | 2-Chlorophenol               | 40.000 | 42.750  | -6.9   | 39    | -0.12    |
| 9    | Benzaldehyde                 | 40.000 | 49.440  | -23.6  | 42    | -0.12    |
| 10 C | Phenol                       | 40.000 | 47.770  | -19.4  | 41    | -0.11    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 41.592  | -4.0   | 36    | -0.12    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 43.694  | -9.2   | 39    | -0.12    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 44.268  | -10.7  | 41    | -0.12    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 45.904  | -14.8  | 44    | -0.12    |
| 15   | Benzyl Alcohol               | 40.000 | 44.905  | -12.3  | 41    | -0.11    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 52.764  | -31.9# | 49    | -0.12    |
| 17   | 2-Methylphenol               | 40.000 | 54.077  | -35.2# | 51    | -0.11    |
| 18   | Hexachloroethane             | 40.000 | 44.085  | -10.2  | 39    | -0.12    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 67.911  | -69.8# | 60    | -0.11    |
| 20   | 3+4-Methylphenols            | 40.000 | 71.926  | -79.8# | 64    | -0.11    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000  | 0.0    | 55    | -0.12    |
| 22   | Acetophenone                 | 40.000 | 44.331  | -10.8  | 60    | -0.11    |
| 23 S | Nitrobenzene-d5              | 80.000 | 75.738  | 5.3    | 54    | -0.11    |
| 24   | Nitrobenzene                 | 40.000 | 41.381  | -3.5   | 52    | -0.11    |
| 25   | Isophorone                   | 40.000 | 40.828  | -2.1   | 56    | -0.11    |
| 26 C | 2-Nitrophenol                | 40.000 | 24.048  | 39.9#  | 34    | -0.11    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 40.068  | -0.2   | 51    | -0.11    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 41.119  | -2.8   | 55    | -0.11    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.385  | 1.5    | 53    | -0.11    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.611  | -4.0   | 55    | -0.11    |
| 31   | Naphthalene                  | 40.000 | 40.820  | -2.1   | 51    | -0.12    |
| 32   | Benzoic acid                 | 40.000 | 20.236  | 49.4#  | 26    | -0.11    |
| 33   | 4-Chloroaniline              | 40.000 | 41.640  | -4.1   | 56    | -0.11    |
| 34 C | Hexachlorobutadiene          | 40.000 | 44.481  | -11.2  | 60    | -0.12    |
| 35   | Caprolactam                  | 40.000 | 34.118  | 14.7   | 46    | -0.11    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 37.444  | 6.4    | 48    | -0.10    |
| 37   | 2-Methylnaphthalene          | 40.000 | 43.856  | -9.6   | 59    | -0.11    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000  | 0.0    | 48    | -0.12    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 45.498  | -13.7  | 49    | -0.11    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 5.237   | 86.9#  | 2     | -0.12    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 68.648  | 14.2   | 42    | -0.12    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 40.064  | -0.2   | 43    | -0.11    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 36.779  | 8.1    | 42    | -0.10    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 107.542 | -34.4# | 60    | -0.11    |

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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 | 45.880 | -14.7  | 48    | -0.12    |
| 46   | 2-Chloronaphthalene        | 40.000 | 42.306 | -5.8   | 48    | -0.12    |
| 47   | 2-Nitroaniline             | 40.000 | 46.146 | -15.4  | 49    | -0.11    |
| 48   | Acenaphthylene             | 40.000 | 40.941 | -2.4   | 48    | -0.12    |
| 49   | Dimethylphthalate          | 40.000 | 47.484 | -18.7  | 54    | -0.11    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 33.367 | 16.6   | 39    | -0.11    |
| 51 C | Acenaphthene               | 40.000 | 38.338 | 4.2    | 46    | -0.12    |
| 52   | 3-Nitroaniline             | 40.000 | 47.401 | -18.5  | 49    | -0.11    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 0.585  | 98.5#  | 1     | -0.07    |
| 54   | Dibenzofuran               | 40.000 | 39.173 | 2.1    | 50    | -0.12    |
| 55 P | 4-Nitrophenol              | 40.000 | 31.123 | 22.2   | 34    | -0.09    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 33.260 | 16.9   | 41    | -0.11    |
| 57   | Fluorene                   | 40.000 | 40.638 | -1.6   | 46    | -0.12    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 35.079 | 12.3   | 39    | -0.11    |
| 59   | Diethylphthalate           | 40.000 | 44.229 | -10.6  | 48    | -0.11    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 45.117 | -12.8  | 54    | -0.11    |
| 61   | 4-Nitroaniline             | 40.000 | 48.054 | -20.1  | 51    | -0.11    |
| 62   | Azobenzene                 | 40.000 | 39.638 | 0.9    | 48    | -0.11    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 42    | -0.12    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 1.788  | 95.5#  | 2     | -0.09    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 46.291 | -15.7  | 49    | -0.12    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 43.851 | -9.6   | 46    | -0.12    |
| 67   | Hexachlorobenzene          | 40.000 | 42.015 | -5.0   | 43    | -0.11    |
| 68   | Atrazine                   | 40.000 | 29.390 | 26.5#  | 31    | -0.12    |
| 69 C | Pentachlorophenol          | 40.000 | 41.718 | -4.3   | 39    | -0.11    |
| 70   | Phenanthrene               | 40.000 | 39.245 | 1.9    | 40    | -0.12    |
| 71   | Anthracene                 | 40.000 | 47.966 | -19.9  | 48    | -0.12    |
| 72   | Carbazole                  | 40.000 | 43.954 | -9.9   | 45    | -0.12    |
| 73   | Di-n-butylphthalate        | 40.000 | 51.713 | -29.3# | 50    | -0.11    |
| 74 C | Fluoranthene               | 40.000 | 46.582 | -16.5  | 48    | -0.12    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 38    | -0.11    |
| 76   | Benzidine                  | 40.000 | 71.420 | -78.6# | 55    | -0.11    |
| 77   | Pyrene                     | 40.000 | 46.469 | -16.2  | 47    | -0.11    |
| 78 S | Terphenyl-d14              | 80.000 | 92.780 | -16.0  | 48    | -0.12    |
| 79   | Butylbenzylphthalate       | 40.000 | 46.649 | -16.6  | 41    | -0.12    |
| 80   | Benzo(a)anthracene         | 40.000 | 47.053 | -17.6  | 45    | -0.11    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 52.281 | -30.7# | 52    | -0.12    |
| 82   | Chrysene                   | 40.000 | 47.266 | -18.2  | 49    | -0.11    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 54.701 | -36.8# | 52    | -0.11    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 50.388 | -26.0# | 48    | -0.11    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 38.150 | 4.6    | 37    | -0.19    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 37    | -0.12    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 39.749 | 0.6    | 35    | -0.12    |

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|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 47.473 | -18.7 | 46    | -0.12    |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.813 | -4.5  | 38    | -0.13    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.970 | -4.9  | 38    | -0.20    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 39.498 | 1.3   | 36    | -0.21    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 2