

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120816\  
 Data File : BF091503.D  
 Acq On : 8 Dec 2016 14:59  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 09 00:16:15 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 29 13:33:46 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    | 67    | -0.05    |
| 2    | 1,4-Dioxane                 | 40.000 | 37.062 | 7.3    | 64    | -0.11    |
| 3    | Pyridine                    | 40.000 | 37.580 | 6.1    | 64    | -0.12    |
| 4    | n-Nitrosodimethylamine      | 40.000 | 41.025 | -2.6   | 71    | -0.12    |
| 5 S  | 2-Fluorophenol              | 80.000 | 75.052 | 6.2    | 64    | -0.06    |
| 6    | Aniline                     | 40.000 | 43.512 | -8.8   | 75    | -0.06    |
| 7 S  | Phenol-d6                   | 80.000 | 89.941 | -12.4  | 81    | -0.04    |
| 8    | 2-Chlorophenol              | 40.000 | 46.054 | -15.1  | 79    | -0.05    |
| 9    | Benzaldehyde                | 40.000 | 37.926 | 5.2    | 64    | -0.05    |
| 10 C | Phenol                      | 40.000 | 48.664 | -21.7# | 85    | -0.05    |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 45.917 | -14.8  | 84    | -0.05    |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 40.879 | -2.2   | 75    | -0.06    |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 40.343 | -0.9   | 72    | -0.06    |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 43.264 | -8.2   | 76    | -0.05    |
| 15   | Benzyl Alcohol              | 40.000 | 38.461 | 3.8    | 63    | -0.06    |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 40.743 | -1.9   | 70    | -0.06    |
| 17   | 2-Methylphenol              | 40.000 | 39.051 | 2.4    | 65    | -0.05    |
| 18   | Hexachloroethane            | 40.000 | 42.989 | -7.5   | 72    | -0.06    |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 43.782 | -9.5   | 82    | -0.05    |
| 20   | 3+4-Methylphenols           | 40.000 | 40.801 | -2.0   | 77    | -0.05    |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0    | 67    | -0.06    |
| 22   | Acetophenone                | 40.000 | 43.873 | -9.7   | 71    | -0.05    |
| 23 S | Nitrobenzene-d5             | 80.000 | 82.475 | -3.1   | 72    | -0.06    |
| 24   | Nitrobenzene                | 40.000 | 48.221 | -20.6  | 80    | -0.05    |
| 25   | Isophorone                  | 40.000 | 41.829 | -4.6   | 69    | -0.06    |
| 26 C | 2-Nitrophenol               | 40.000 | 46.097 | -15.2  | 82    | -0.05    |
| 27   | 2,4-Dimethylphenol          | 40.000 | 37.812 | 5.5    | 60    | -0.05    |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 44.644 | -11.6  | 82    | -0.05    |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 46.653 | -16.6  | 83    | -0.05    |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 44.154 | -10.4  | 74    | -0.06    |
| 31   | Naphthalene                 | 40.000 | 42.192 | -5.5   | 72    | -0.06    |
| 32   | Benzoic acid                | 40.000 | 46.720 | -16.8  | 73    | -0.05    |
| 33   | 4-Chloroaniline             | 40.000 | 44.108 | -10.3  | 79    | -0.05    |
| 34 C | Hexachlorobutadiene         | 40.000 | 50.067 | -25.2# | 82    | -0.06    |
| 35   | Caprolactam                 | 40.000 | 44.569 | -11.4  | 73    | -0.06    |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 50.488 | -26.2# | 87    | -0.05    |
| 37   | 2-Methylnaphthalene         | 40.000 | 47.142 | -17.9  | 80    | -0.05    |
| 38 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0    | 75    | -0.06    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 40.421 | -1.1   | 86    | -0.06    |
| 40 P | Hexachlorocyclopentadiene   | 40.000 | 41.611 | -4.0   | 80    | -0.06    |
| 41 S | 2,4,6-Tribromophenol        | 80.000 | 86.041 | -7.6   | 87    | -0.06    |
| 42 C | 2,4,6-Trichlorophenol       | 40.000 | 44.918 | -12.3  | 85    | -0.05    |
| 43   | 2,4,5-Trichlorophenol       | 40.000 | 41.905 | -4.8   | 78    | -0.05    |
| 44 S | 2-Fluorobiphenyl            | 80.000 | 90.067 | -12.6  | 84    | -0.05    |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 38.719 | 3.2    | 84    | -0.06    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.923 | 2.7    | 83    | -0.06    |
| 47   | 2-Nitroaniline             | 40.000 | 40.517 | -1.3   | 86    | -0.06    |
| 48   | Acenaphthylene             | 40.000 | 38.842 | 2.9    | 77    | -0.06    |
| 49   | Dimethylphthalate          | 40.000 | 44.940 | -12.3  | 85    | -0.06    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 48.589 | -21.5  | 89    | -0.05    |
| 51 C | Acenaphthene               | 40.000 | 41.713 | -4.3   | 78    | -0.05    |
| 52   | 3-Nitroaniline             | 40.000 | 38.958 | 2.6    | 87    | -0.06    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 49.488 | -23.7  | 86    | -0.06    |
| 54   | Dibenzofuran               | 40.000 | 40.357 | -0.9   | 79    | -0.06    |
| 55 P | 4-Nitrophenol              | 40.000 | 38.149 | 4.6    | 75    | -0.05    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 49.909 | -24.8  | 91    | -0.05    |
| 57   | Fluorene                   | 40.000 | 40.300 | -0.7   | 82    | -0.06    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 46.286 | -15.7  | 86    | -0.05    |
| 59   | Diethylphthalate           | 40.000 | 44.285 | -10.7  | 85    | -0.06    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 42.454 | -6.1   | 89    | -0.06    |
| 61   | 4-Nitroaniline             | 40.000 | 42.593 | -6.5   | 78    | -0.05    |
| 62   | Azobenzene                 | 40.000 | 45.841 | -14.6  | 83    | -0.06    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 75    | -0.06    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 51.291 | -28.2# | 98    | -0.06    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.836 | 0.4    | 80    | -0.06    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 45.595 | -14.0  | 82    | -0.06    |
| 67   | Hexachlorobenzene          | 40.000 | 40.268 | -0.7   | 83    | -0.06    |
| 68   | Atrazine                   | 40.000 | 40.079 | -0.2   | 86    | -0.06    |
| 69 C | Pentachlorophenol          | 40.000 | 46.281 | -15.7  | 80    | -0.06    |
| 70   | Phenanthrene               | 40.000 | 39.287 | 1.8    | 81    | -0.06    |
| 71   | Anthracene                 | 40.000 | 44.742 | -11.9  | 80    | -0.06    |
| 72   | Carbazole                  | 40.000 | 40.461 | -1.2   | 82    | -0.06    |
| 73   | Di-n-butylphthalate        | 40.000 | 43.742 | -9.4   | 79    | -0.06    |
| 74 C | Fluoranthene               | 40.000 | 48.476 | -21.2# | 86    | -0.06    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 89    | -0.07    |
| 76   | Benzidine                  | 40.000 | 24.710 | 38.2#  | 52    | -0.06    |
| 77   | Pyrene                     | 40.000 | 40.655 | -1.6   | 84    | -0.06    |
| 78 S | Terphenyl-d14              | 80.000 | 89.532 | -11.9  | 93    | -0.06    |
| 79   | Butylbenzylphthalate       | 40.000 | 42.302 | -5.8   | 95    | -0.07    |
| 80   | Benzo(a)anthracene         | 40.000 | 45.657 | -14.1  | 103   | -0.06    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 42.367 | -5.9   | 99    | -0.06    |
| 82   | Chrysene                   | 40.000 | 46.984 | -17.5  | 101   | -0.06    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 47.401 | -18.5  | 102   | -0.06    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 46.568 | -16.4  | 101   | -0.06    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 37.154 | 7.1    | 79    | -0.13    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 78    | -0.09    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 46.936 | -17.3  | 83    | -0.07    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 43.241 | -8.1 | 101   | -0.07    |
| 89 C | Benzo(a)pyrene         | 40.000 | 43.097 | -7.7 | 88    | -0.09    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 42.685 | -6.7 | 81    | -0.13    |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 42.005 | -5.0 | 78    | -0.13    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 4