

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011217\  
 Data File : BF092205.D  
 Acq On : 12 Jan 2017 13:00  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 12 16:16:11 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 06 15:43:51 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   | 80    | -0.05    |
| 2    | 1,4-Dioxane                  | 40.000 | 34.487 | 13.8  | 68    | -0.03    |
| 3    | Pyridine                     | 40.000 | 29.488 | 26.3# | 57    | -0.06    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 31.687 | 20.8  | 60    | -0.05    |
| 5 S  | 2-Fluorophenol               | 80.000 | 72.381 | 9.5   | 75    | -0.05    |
| 6    | Aniline                      | 40.000 | 35.149 | 12.1  | 70    | -0.05    |
| 7 S  | Phenol-d6                    | 80.000 | 67.062 | 16.2  | 65    | -0.05    |
| 8    | 2-Chlorophenol               | 40.000 | 36.465 | 8.8   | 71    | -0.05    |
| 9    | Benzaldehyde                 | 40.000 | 32.028 | 19.9  | 67    | -0.05    |
| 10 C | Phenol                       | 40.000 | 33.698 | 15.8  | 62    | -0.05    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 33.261 | 16.8  | 61    | -0.05    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 42.888 | -7.2  | 81    | -0.05    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.885 | -4.7  | 82    | -0.05    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 37.395 | 6.5   | 76    | -0.05    |
| 15   | Benzyl Alcohol               | 40.000 | 34.599 | 13.5  | 68    | -0.05    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.934 | 2.7   | 77    | -0.05    |
| 17   | 2-Methylphenol               | 40.000 | 37.401 | 6.5   | 74    | -0.03    |
| 18   | Hexachloroethane             | 40.000 | 39.515 | 1.2   | 75    | -0.05    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.461 | 8.8   | 69    | -0.05    |
| 20   | 3+4-Methylphenols            | 40.000 | 42.943 | -7.4  | 81    | -0.05    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 84    | -0.05    |
| 22   | Acetophenone                 | 40.000 | 36.607 | 8.5   | 76    | -0.05    |
| 23 S | Nitrobenzene-d5              | 80.000 | 73.062 | 8.7   | 80    | -0.03    |
| 24   | Nitrobenzene                 | 40.000 | 32.670 | 18.3  | 62    | -0.05    |
| 25   | Isophorone                   | 40.000 | 36.506 | 8.7   | 77    | -0.03    |
| 26 C | 2-Nitrophenol                | 40.000 | 37.411 | 6.5   | 81    | -0.05    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 34.540 | 13.7  | 67    | -0.05    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 35.755 | 10.6  | 73    | -0.05    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 38.212 | 4.5   | 78    | -0.05    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.567 | 6.1   | 75    | -0.05    |
| 31   | Naphthalene                  | 40.000 | 41.039 | -2.6  | 79    | -0.05    |
| 32   | Benzoic acid                 | 40.000 | 42.753 | -6.9  | 85    | -0.01    |
| 33   | 4-Chloroaniline              | 40.000 | 35.207 | 12.0  | 72    | -0.05    |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.355 | 1.6   | 81    | -0.05    |
| 35   | Caprolactam                  | 40.000 | 35.086 | 12.3  | 72    | -0.03    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 33.438 | 16.4  | 65    | -0.03    |
| 37   | 2-Methylnaphthalene          | 40.000 | 37.313 | 6.7   | 81    | -0.05    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 79    | -0.05    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.601 | 1.0   | 70    | -0.05    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 44.649 | -11.6 | 82    | -0.05    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 79.025 | 1.2   | 80    | -0.05    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.722 | -4.3  | 74    | -0.03    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.704 | 0.7   | 75    | -0.03    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 91.178 | -14.0 | 86    | -0.03    |

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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 | 39.739 | 0.7    | 69    | -0.05    |
| 46   | 2-Chloronaphthalene        | 40.000 | 39.695 | 0.8    | 74    | -0.05    |
| 47   | 2-Nitroaniline             | 40.000 | 35.466 | 11.3   | 61    | -0.05    |
| 48   | Acenaphthylene             | 40.000 | 39.662 | 0.8    | 77    | -0.05    |
| 49   | Dimethylphthalate          | 40.000 | 38.871 | 2.8    | 73    | -0.05    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 45.000 | -12.5  | 87    | -0.03    |
| 51 C | Acenaphthene               | 40.000 | 38.485 | 3.8    | 76    | -0.05    |
| 52   | 3-Nitroaniline             | 40.000 | 37.191 | 7.0    | 64    | -0.05    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 40.924 | -2.3   | 70    | -0.05    |
| 54   | Dibenzofuran               | 40.000 | 36.795 | 8.0    | 78    | -0.05    |
| 55 P | 4-Nitrophenol              | 40.000 | 36.023 | 9.9    | 64    | -0.03    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 37.159 | 7.1    | 74    | -0.05    |
| 57   | Fluorene                   | 40.000 | 43.490 | -8.7   | 82    | -0.05    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 40.028 | -0.1   | 73    | -0.05    |
| 59   | Diethylphthalate           | 40.000 | 38.539 | 3.7    | 69    | -0.05    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.138 | -0.3   | 79    | -0.05    |
| 61   | 4-Nitroaniline             | 40.000 | 40.412 | -1.0   | 71    | -0.05    |
| 62   | Azobenzene                 | 40.000 | 39.383 | 1.5    | 78    | -0.05    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 91    | -0.05    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 39.829 | 0.4    | 84    | -0.03    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 33.616 | 16.0   | 77    | -0.05    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 36.788 | 8.0    | 85    | -0.05    |
| 67   | Hexachlorobenzene          | 40.000 | 38.376 | 4.1    | 86    | -0.03    |
| 68   | Atrazine                   | 40.000 | 36.255 | 9.4    | 83    | -0.05    |
| 69 C | Pentachlorophenol          | 40.000 | 35.195 | 12.0   | 71    | -0.05    |
| 70   | Phenanthrene               | 40.000 | 34.235 | 14.4   | 75    | -0.05    |
| 71   | Anthracene                 | 40.000 | 46.055 | -15.1  | 103   | -0.05    |
| 72   | Carbazole                  | 40.000 | 40.538 | -1.3   | 94    | -0.05    |
| 73   | Di-n-butylphthalate        | 40.000 | 47.454 | -18.6  | 101   | -0.03    |
| 74 C | Fluoranthene               | 40.000 | 44.883 | -12.2  | 100   | -0.05    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 79    | -0.05    |
| 76   | Benzidine                  | 40.000 | 52.067 | -30.2# | 91    | -0.05    |
| 77   | Pyrene                     | 40.000 | 42.607 | -6.5   | 90    | -0.05    |
| 78 S | Terphenyl-d14              | 80.000 | 88.364 | -10.5  | 95    | -0.05    |
| 79   | Butylbenzylphthalate       | 40.000 | 50.255 | -25.6# | 92    | -0.05    |
| 80   | Benzo(a)anthracene         | 40.000 | 45.418 | -13.5  | 90    | -0.05    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 47.470 | -18.7  | 99    | -0.05    |
| 82   | Chrysene                   | 40.000 | 42.838 | -7.1   | 93    | -0.05    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 47.246 | -18.1  | 94    | -0.05    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 46.966 | -17.4  | 93    | -0.05    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 44.056 | -10.1  | 89    | -0.08    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 90    | -0.05    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 42.465 | -6.2   | 90    | -0.05    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 33.703 | 15.7 | 79    | -0.05    |
| 89 C | Benzo(a)pyrene         | 40.000 | 37.817 | 5.5  | 84    | -0.06    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.762 | -1.9 | 90    | -0.08    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 41.967 | -4.9 | 93    | -0.09    |

(#) = Out of Range

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