

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040617\  
 Data File : BF094244.D  
 Acq On : 7 Apr 2017 00:28  
 Operator : SJ/MA  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 07 10:48:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 07 10:49:07 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   | 114   | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 38.664 | 3.3   | 108   | -0.04    |
| 3    | Pyridine                     | 40.000 | 39.067 | 2.3   | 107   | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 40.449 | -1.1  | 110   | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.063 | 2.4   | 111   | 0.00     |
| 6    | Aniline                      | 40.000 | 37.045 | 7.4   | 102   | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 78.257 | 2.2   | 110   | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 40.686 | -1.7  | 113   | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 34.924 | 12.7  | 98    | 0.00     |
| 10 C | Phenol                       | 40.000 | 37.784 | 5.5   | 102   | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 40.058 | -0.1  | 112   | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.162 | -0.4  | 112   | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.696 | 0.8   | 111   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.463 | 1.3   | 111   | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 38.569 | 3.6   | 106   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 37.607 | 6.0   | 104   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 40.397 | -1.0  | 113   | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.428 | 1.4   | 108   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 39.323 | 1.7   | 110   | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 41.726 | -4.3  | 119   | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 115   | 0.00     |
| 22   | Acetophenone                 | 40.000 | 41.446 | -3.6  | 123   | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 79.878 | 0.2   | 114   | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.886 | 0.3   | 113   | 0.00     |
| 25   | Isophorone                   | 40.000 | 40.569 | -1.4  | 116   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 44.798 | -12.0 | 121   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 39.605 | 1.0   | 113   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.234 | 1.9   | 112   | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.562 | -1.4  | 115   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.593 | 1.0   | 113   | 0.00     |
| 31   | Naphthalene                  | 40.000 | 38.750 | 3.1   | 112   | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 38.423 | 3.9   | 97    | 0.01     |
| 33   | 4-Chloroaniline              | 40.000 | 40.362 | -0.9  | 115   | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 38.652 | 3.4   | 111   | 0.00     |
| 35   | Caprolactam                  | 40.000 | 44.615 | -11.5 | 124   | 0.01     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.554 | -3.9  | 118   | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 38.947 | 2.6   | 112   | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 119   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 39.698 | 0.8   | 119   | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 27.322 | 31.7# | 75    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 81.974 | -2.5  | 119   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 39.771 | 0.6   | 117   | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.857 | 0.4   | 113   | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 75.473 | 5.7   | 113   | 0.00     |

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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 | 37.637 | 5.9    | 112   | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.157 | 4.6    | 114   | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 42.673 | -6.7   | 121   | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 37.004 | 7.5    | 109   | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 40.302 | -0.8   | 120   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 41.286 | -3.2   | 118   | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 37.772 | 5.6    | 114   | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 42.078 | -5.2   | 123   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 32.430 | 18.9   | 94    | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 36.447 | 8.9    | 107   | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 37.718 | 5.7    | 106   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 37.926 | 5.2    | 107   | 0.00     |
| 57   | Fluorene                   | 40.000 | 35.854 | 10.4   | 114   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 39.065 | 2.3    | 113   | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 39.241 | 1.9    | 116   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 35.926 | 10.2   | 113   | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 42.763 | -6.9   | 122   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 37.863 | 5.3    | 111   | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 116   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 37.485 | 6.3    | 102   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.949 | 0.1    | 116   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 40.104 | -0.3   | 115   | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 40.859 | -2.1   | 119   | 0.00     |
| 68   | Atrazine                   | 40.000 | 41.107 | -2.8   | 118   | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 50.580 | -26.4# | 141   | 0.00     |
| 70   | Phenanthrene               | 40.000 | 38.685 | 3.3    | 114   | 0.00     |
| 71   | Anthracene                 | 40.000 | 38.573 | 3.6    | 113   | 0.00     |
| 72   | Carbazole                  | 40.000 | 38.057 | 4.9    | 111   | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.974 | 0.1    | 114   | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 37.139 | 7.2    | 109   | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 91    | 0.00     |
| 76   | Benzidine                  | 40.000 | 34.894 | 12.8   | 77    | 0.00     |
| 77   | Pyrene                     | 40.000 | 46.161 | -15.4  | 104   | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 92.782 | -16.0  | 107   | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 50.703 | -26.8# | 109   | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 40.365 | -0.9   | 90    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.493 | -1.2   | 87    | 0.00     |
| 82   | Chrysene                   | 40.000 | 40.360 | -0.9   | 92    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 49.675 | -24.2  | 108   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 44.324 | -10.8  | 95    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 46.884 | -17.2  | 110   | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 95    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 39.033 | 2.4    | 91    | 0.00     |

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|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.337 | 6.7   | 86    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 39.872 | 0.3   | 92    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 46.209 | -15.5 | 110   | 0.01     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 46.859 | -17.1 | 113   | 0.01     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 1