

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081015\  
 Data File : BF080951.D  
 Acq On : 10 Aug 2015 14:20  
 Operator : TP/UM  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 11 01:25:24 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF080715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Aug 08 01:33:05 2015  
 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    | 144   | -0.02    |
| 2    | 1,4-Dioxane                 | 40.000 | 35.628 | 10.9   | 126   | 0.03     |
| 3    | Pyridine                    | 40.000 | 43.047 | -7.6   | 162   | 0.02     |
| 4    | n-Nitrosodimethylamine      | 40.000 | 45.864 | -14.7  | 158   | 0.03     |
| 5 S  | 2-Fluorophenol              | 80.000 | 90.693 | -13.4  | 163   | 0.00     |
| 6    | Aniline                     | 40.000 | 40.385 | -1.0   | 148   | -0.01    |
| 7 S  | Phenol-d6                   | 80.000 | 82.969 | -3.7   | 138   | -0.01    |
| 8    | 2-Chlorophenol              | 40.000 | 40.819 | -2.0   | 136   | -0.01    |
| 9    | Benzaldehyde                | 40.000 | 42.066 | -5.2   | 144   | -0.01    |
| 10 C | Phenol                      | 40.000 | 42.320 | -5.8   | 132   | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 44.537 | -11.3  | 158   | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 40.815 | -2.0   | 139   | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 42.101 | -5.3   | 157   | -0.02    |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 38.348 | 4.1    | 132   | -0.02    |
| 15   | Benzyl Alcohol              | 40.000 | 41.165 | -2.9   | 136   | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 42.083 | -5.2   | 155   | -0.01    |
| 17   | 2-Methylphenol              | 40.000 | 41.899 | -4.7   | 146   | -0.02    |
| 18   | Hexachloroethane            | 40.000 | 40.208 | -0.5   | 143   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 44.328 | -10.8  | 153   | -0.01    |
| 20   | 3+4-Methylphenols           | 40.000 | 38.701 | 3.2    | 149   | -0.01    |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0    | 145   | -0.02    |
| 22   | Acetophenone                | 40.000 | 39.024 | 2.4    | 153   | -0.01    |
| 23 S | Nitrobenzene-d5             | 80.000 | 78.752 | 1.6    | 141   | -0.02    |
| 24   | Nitrobenzene                | 40.000 | 42.259 | -5.6   | 177   | -0.01    |
| 25   | Isophorone                  | 40.000 | 39.592 | 1.0    | 147   | -0.02    |
| 26 C | 2-Nitrophenol               | 40.000 | 40.636 | -1.6   | 147   | -0.02    |
| 27   | 2,4-Dimethylphenol          | 40.000 | 37.492 | 6.3    | 135   | -0.02    |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 41.558 | -3.9   | 173   | -0.01    |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 42.216 | -5.5   | 157   | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 40.836 | -2.1   | 144   | -0.02    |
| 31   | Naphthalene                 | 40.000 | 40.445 | -1.1   | 149   | -0.02    |
| 32   | Benzoic acid                | 40.000 | 46.930 | -17.3  | 189   | 0.00     |
| 33   | 4-Chloroaniline             | 40.000 | 36.037 | 9.9    | 125   | -0.02    |
| 34 C | Hexachlorobutadiene         | 40.000 | 37.440 | 6.4    | 150   | -0.02    |
| 35   | Caprolactam                 | 40.000 | 39.868 | 0.3    | 135   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 40.024 | -0.1   | 146   | -0.01    |
| 37   | 2-Methylnaphthalene         | 40.000 | 35.521 | 11.2   | 133   | -0.02    |
| 38 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0    | 111   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 49.877 | -24.7  | 145   | -0.02    |
| 40 P | Hexachlorocyclopentadiene   | 40.000 | 55.697 | -39.2# | 153   | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 80.000 | 74.085 | 7.4    | 97    | -0.02    |
| 42 C | 2,4,6-Trichlorophenol       | 40.000 | 48.046 | -20.1# | 150   | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 40.000 | 44.670 | -11.7  | 132   | -0.02    |
| 44 S | 2-Fluorobiphenyl            | 80.000 | 88.787 | -11.0  | 132   | -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 | 42.672 | -6.7  | 119   | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 42.716 | -6.8  | 120   | -0.02    |
| 47   | 2-Nitroaniline             | 40.000 | 43.794 | -9.5  | 118   | -0.02    |
| 48   | Acenaphthylene             | 40.000 | 39.900 | 0.3   | 111   | -0.02    |
| 49   | Dimethylphthalate          | 40.000 | 40.310 | -0.8  | 132   | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 40.317 | -0.8  | 123   | -0.01    |
| 51 C | Acenaphthene               | 40.000 | 39.935 | 0.2   | 111   | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 45.999 | -15.0 | 129   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 46.941 | -17.4 | 133   | -0.01    |
| 54   | Dibenzofuran               | 40.000 | 40.820 | -2.1  | 114   | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 48.491 | -21.2 | 124   | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 37.317 | 6.7   | 116   | -0.01    |
| 57   | Fluorene                   | 40.000 | 42.274 | -5.7  | 117   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.334 | -8.3  | 125   | -0.01    |
| 59   | Diethylphthalate           | 40.000 | 44.688 | -11.7 | 136   | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 42.366 | -5.9  | 140   | -0.01    |
| 61   | 4-Nitroaniline             | 40.000 | 43.237 | -8.1  | 120   | 0.00     |
| 62   | Azobenzene                 | 40.000 | 39.370 | 1.6   | 117   | -0.02    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 123   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 44.632 | -11.6 | 124   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 36.236 | 9.4   | 107   | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 34.200 | 14.5  | 107   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 39.960 | 0.1   | 127   | -0.02    |
| 68   | Atrazine                   | 40.000 | 38.527 | 3.7   | 114   | -0.02    |
| 69 C | Pentachlorophenol          | 40.000 | 40.009 | -0.0  | 128   | -0.01    |
| 70   | Phenanthrene               | 40.000 | 41.036 | -2.6  | 128   | -0.02    |
| 71   | Anthracene                 | 40.000 | 32.267 | 19.3  | 101   | -0.02    |
| 72   | Carbazole                  | 40.000 | 38.105 | 4.7   | 114   | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 34.989 | 12.5  | 112   | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 33.822 | 15.4  | 99    | -0.02    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 97    | -0.02    |
| 76   | Benzidine                  | 40.000 | 36.827 | 7.9   | 88    | -0.02    |
| 77   | Pyrene                     | 40.000 | 45.387 | -13.5 | 107   | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 81.815 | -2.3  | 102   | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 44.911 | -12.3 | 101   | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 44.496 | -11.2 | 105   | -0.03    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 49.021 | -22.6 | 101   | -0.02    |
| 82   | Chrysene                   | 40.000 | 44.886 | -12.2 | 99    | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 47.152 | -17.9 | 105   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 44.380 | -11.0 | 95    | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 40.433 | -1.1  | 87    | -0.05    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 90    | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 37.866 | 5.3   | 80    | -0.03    |

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|      | Compound               | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 45.598 | -14.0 | 117   | -0.02    |
| 89 C | Benzo(a)pyrene         | 40.000 | 45.544 | -13.9 | 100   | -0.03    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 40.102 | -0.3  | 89    | -0.05    |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 38.743 | 3.1   | 84    | -0.05    |

(#) = Out of Range

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