

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF052317\  
 Data File : BF095348.D  
 Acq On : 23 May 2017 13:29  
 Operator : SJ/MA  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 24 01:56:58 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 18 17:07:53 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    | 81    | -0.01    |
| 2    | 1,4-Dioxane                 | 40.000 | 46.192  | -15.5  | 98    | -0.02    |
| 3    | Pyridine                    | 40.000 | 44.121  | -10.3  | 92    | -0.02    |
| 4    | n-Nitrosodimethylamine      | 40.000 | 38.439  | 3.9    | 81    | -0.02    |
| 5 S  | 2-Fluorophenol              | 80.000 | 100.219 | -25.3# | 102   | -0.02    |
| 6    | Aniline                     | 40.000 | 48.184  | -20.5  | 93    | -0.01    |
| 7 S  | Phenol-d6                   | 80.000 | 90.371  | -13.0  | 92    | -0.01    |
| 8    | 2-Chlorophenol              | 40.000 | 46.393  | -16.0  | 95    | -0.01    |
| 9    | Benzaldehyde                | 40.000 | 37.732  | 5.7    | 75    | -0.01    |
| 10 C | Phenol                      | 40.000 | 46.527  | -16.3  | 95    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 44.770  | -11.9  | 90    | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 44.681  | -11.7  | 97    | -0.01    |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 45.386  | -13.5  | 92    | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 45.610  | -14.0  | 93    | -0.02    |
| 15   | Benzyl Alcohol              | 40.000 | 49.373  | -23.4  | 96    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 42.470  | -6.2   | 89    | -0.01    |
| 17   | 2-Methylphenol              | 40.000 | 46.377  | -15.9  | 98    | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 44.118  | -10.3  | 89    | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 45.131  | -12.8  | 94    | -0.01    |
| 20   | 3+4-Methylphenols           | 40.000 | 45.048  | -12.6  | 92    | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000  | 0.0    | 82    | -0.01    |
| 22   | Acetophenone                | 40.000 | 44.305  | -10.8  | 92    | -0.01    |
| 23 S | Nitrobenzene-d5             | 80.000 | 88.264  | -10.3  | 90    | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 44.453  | -11.1  | 94    | -0.01    |
| 25   | Isophorone                  | 40.000 | 45.506  | -13.8  | 94    | 0.00     |
| 26 C | 2-Nitrophenol               | 40.000 | 47.937  | -19.8  | 97    | -0.01    |
| 27   | 2,4-Dimethylphenol          | 40.000 | 44.996  | -12.5  | 96    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 44.390  | -11.0  | 92    | -0.02    |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 43.924  | -9.8   | 94    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 44.112  | -10.3  | 93    | -0.01    |
| 31   | Naphthalene                 | 40.000 | 44.595  | -11.5  | 94    | -0.01    |
| 32   | Benzoic acid                | 40.000 | 38.239  | 4.4    | 85    | 0.00     |
| 33   | 4-Chloroaniline             | 40.000 | 46.883  | -17.2  | 97    | -0.01    |
| 34 C | Hexachlorobutadiene         | 40.000 | 42.732  | -6.8   | 90    | -0.02    |
| 35   | Caprolactam                 | 40.000 | 42.931  | -7.3   | 85    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 46.441  | -16.1  | 96    | -0.01    |
| 37   | 2-Methylnaphthalene         | 40.000 | 45.972  | -14.9  | 97    | -0.01    |
| 38 I | Acenaphthene-d10            | 20.000 | 20.000  | 0.0    | 95    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 41.728  | -4.3   | 94    | -0.01    |
| 40 P | Hexachlorocyclopentadiene   | 40.000 | 42.039  | -5.1   | 99    | -0.01    |
| 41 S | 2,4,6-Tribromophenol        | 80.000 | 90.419  | -13.0  | 100   | -0.01    |
| 42 C | 2,4,6-Trichlorophenol       | 40.000 | 41.680  | -4.2   | 94    | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 40.000 | 38.545  | 3.6    | 87    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 80.000 | 80.638  | -0.8   | 94    | -0.01    |

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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 | 43.036 | -7.6   | 97    | -0.01    |
| 46   | 2-Chloronaphthalene        | 40.000 | 42.848 | -7.1   | 99    | -0.01    |
| 47   | 2-Nitroaniline             | 40.000 | 44.248 | -10.6  | 103   | -0.01    |
| 48   | Acenaphthylene             | 40.000 | 42.646 | -6.6   | 99    | -0.01    |
| 49   | Dimethylphthalate          | 40.000 | 41.037 | -2.6   | 94    | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 43.666 | -9.2   | 99    | -0.01    |
| 51 C | Acenaphthene               | 40.000 | 42.664 | -6.7   | 99    | -0.01    |
| 52   | 3-Nitroaniline             | 40.000 | 45.371 | -13.4  | 102   | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 41.726 | -4.3   | 101   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 44.369 | -10.9  | 104   | -0.01    |
| 55 P | 4-Nitrophenol              | 40.000 | 36.194 | 9.5    | 78    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 47.064 | -17.7  | 106   | 0.00     |
| 57   | Fluorene                   | 40.000 | 43.312 | -8.3   | 103   | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 47.717 | -19.3  | 111   | -0.01    |
| 59   | Diethylphthalate           | 40.000 | 42.631 | -6.6   | 102   | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 43.976 | -9.9   | 101   | -0.01    |
| 61   | 4-Nitroaniline             | 40.000 | 41.465 | -3.7   | 97    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 44.935 | -12.3  | 101   | -0.01    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 94    | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 45.125 | -12.8  | 104   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 43.480 | -8.7   | 103   | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 43.635 | -9.1   | 100   | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 42.562 | -6.4   | 100   | -0.01    |
| 68   | Atrazine                   | 40.000 | 43.589 | -9.0   | 107   | -0.01    |
| 69 C | Pentachlorophenol          | 40.000 | 50.485 | -26.2# | 138   | -0.01    |
| 70   | Phenanthrene               | 40.000 | 44.238 | -10.6  | 106   | -0.02    |
| 71   | Anthracene                 | 40.000 | 45.331 | -13.3  | 108   | -0.01    |
| 72   | Carbazole                  | 40.000 | 45.185 | -13.0  | 109   | -0.01    |
| 73   | Di-n-butylphthalate        | 40.000 | 44.156 | -10.4  | 102   | -0.01    |
| 74 C | Fluoranthene               | 40.000 | 44.781 | -12.0  | 105   | -0.01    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 93    | -0.01    |
| 76   | Benzidine                  | 40.000 | 38.330 | 4.2    | 88    | 0.00     |
| 77   | Pyrene                     | 40.000 | 45.988 | -15.0  | 106   | -0.01    |
| 78 S | Terphenyl-d14              | 80.000 | 87.476 | -9.3   | 103   | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 44.925 | -12.3  | 103   | -0.01    |
| 80   | Benzo(a)anthracene         | 40.000 | 42.995 | -7.5   | 100   | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 41.250 | -3.1   | 93    | -0.01    |
| 82   | Chrysene                   | 40.000 | 43.130 | -7.8   | 100   | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.931 | -2.3   | 93    | -0.01    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 41.593 | -4.0   | 94    | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 36.535 | 8.7    | 87    | -0.02    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 84    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.702 | -4.3   | 81    | -0.01    |

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|------|------------------------|--------|--------|--------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 51.223 | -28.1# | 104   | -0.01    |
| 89 C | Benzo(a)pyrene         | 40.000 | 44.964 | -12.4  | 90    | -0.01    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 41.046 | -2.6   | 84    | -0.01    |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 42.829 | -7.1   | 90    | -0.01    |

(#) = Out of Range

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