

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\  
 Data File : BF086874.D  
 Acq On : 10 May 2016 22:06  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 11 05:32:17 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 09 16:04:56 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   | 111   | -0.01    |
| 2    | 1,4-Dioxane                  | 40.000 | 36.772 | 8.1   | 101   | -0.01    |
| 3    | Pyridine                     | 40.000 | 41.451 | -3.6  | 113   | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 41.595 | -4.0  | 109   | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 75.779 | 5.3   | 103   | -0.01    |
| 6    | Aniline                      | 40.000 | 32.631 | 18.4  | 91    | -0.01    |
| 7 S  | Phenol-d6                    | 80.000 | 65.983 | 17.5  | 91    | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 35.974 | 10.1  | 99    | -0.01    |
| 9    | Benzaldehyde                 | 40.000 | 38.283 | 4.3   | 110   | 0.00     |
| 10 C | Phenol                       | 40.000 | 29.356 | 26.6# | 79    | -0.01    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 36.605 | 8.5   | 95    | -0.01    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 38.141 | 4.6   | 106   | -0.01    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.245 | 4.4   | 112   | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 34.973 | 12.6  | 93    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 37.800 | 5.5   | 103   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 37.768 | 5.6   | 110   | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 33.182 | 17.0  | 89    | -0.01    |
| 18   | Hexachloroethane             | 40.000 | 38.836 | 2.9   | 109   | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 35.468 | 11.3  | 91    | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 32.678 | 18.3  | 87    | -0.01    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 101   | -0.01    |
| 22   | Acetophenone                 | 40.000 | 40.227 | -0.6  | 103   | -0.01    |
| 23 S | Nitrobenzene-d5              | 80.000 | 74.301 | 7.1   | 94    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 41.357 | -3.4  | 104   | 0.00     |
| 25   | Isophorone                   | 40.000 | 37.954 | 5.1   | 101   | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 37.602 | 6.0   | 90    | -0.01    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 36.069 | 9.8   | 99    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 37.270 | 6.8   | 91    | -0.01    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 36.055 | 9.9   | 92    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 37.780 | 5.5   | 96    | -0.01    |
| 31   | Naphthalene                  | 40.000 | 35.318 | 11.7  | 91    | -0.01    |
| 32   | Benzoic acid                 | 40.000 | 29.619 | 26.0# | 76    | -0.01    |
| 33   | 4-Chloroaniline              | 40.000 | 30.762 | 23.1  | 77    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 37.987 | 5.0   | 96    | -0.01    |
| 35   | Caprolactam                  | 40.000 | 34.062 | 14.8  | 91    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 29.442 | 26.4# | 75    | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 36.937 | 7.7   | 91    | -0.01    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 86    | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.167 | -5.4  | 94    | -0.01    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 41.459 | -3.6  | 88    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 60.019 | 25.0  | 67    | -0.01    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 37.724 | 5.7   | 85    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 33.316 | 16.7  | 72    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 88.819 | -11.0 | 108   | 0.00     |

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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 | 38.420 | 3.9    | 81    | -0.01    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.093 | 4.8    | 80    | -0.01    |
| 47   | 2-Nitroaniline             | 40.000 | 35.013 | 12.5   | 80    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 36.563 | 8.6    | 76    | -0.01    |
| 49   | Dimethylphthalate          | 40.000 | 35.153 | 12.1   | 82    | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 40.002 | -0.0   | 92    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 38.412 | 4.0    | 78    | -0.01    |
| 52   | 3-Nitroaniline             | 40.000 | 31.238 | 21.9   | 69    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 27.339 | 31.7#  | 57    | -0.01    |
| 54   | Dibenzofuran               | 40.000 | 36.190 | 9.5    | 74    | -0.01    |
| 55 P | 4-Nitrophenol              | 40.000 | 26.550 | 33.6#  | 53    | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 35.858 | 10.4   | 77    | -0.01    |
| 57   | Fluorene                   | 40.000 | 38.306 | 4.2    | 80    | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 34.137 | 14.7   | 70    | -0.01    |
| 59   | Diethylphthalate           | 40.000 | 36.123 | 9.7    | 78    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 39.022 | 2.4    | 86    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 28.907 | 27.7#  | 59    | -0.01    |
| 62   | Azobenzene                 | 40.000 | 34.472 | 13.8   | 77    | -0.01    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 76    | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 32.122 | 19.7   | 62    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 37.416 | 6.5    | 74    | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 41.131 | -2.8   | 74    | -0.01    |
| 67   | Hexachlorobenzene          | 40.000 | 43.741 | -9.4   | 91    | 0.00     |
| 68   | Atrazine                   | 40.000 | 39.844 | 0.4    | 70    | -0.01    |
| 69 C | Pentachlorophenol          | 40.000 | 37.391 | 6.5    | 65    | -0.01    |
| 70   | Phenanthrene               | 40.000 | 37.654 | 5.9    | 78    | 0.00     |
| 71   | Anthracene                 | 40.000 | 38.071 | 4.8    | 69    | -0.01    |
| 72   | Carbazole                  | 40.000 | 34.672 | 13.3   | 68    | -0.01    |
| 73   | Di-n-butylphthalate        | 40.000 | 39.038 | 2.4    | 73    | -0.01    |
| 74 C | Fluoranthene               | 40.000 | 37.346 | 6.6    | 69    | -0.01    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 75    | -0.01    |
| 76   | Benzidine                  | 40.000 | 2.972  | 92.6#  | 5     | 0.00     |
| 77   | Pyrene                     | 40.000 | 38.459 | 3.9    | 75    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 80.214 | -0.3   | 75    | -0.01    |
| 79   | Butylbenzylphthalate       | 40.000 | 40.497 | -1.2   | 79    | -0.01    |
| 80   | Benzo(a)anthracene         | 40.000 | 40.042 | -0.1   | 77    | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 35.297 | 11.8   | 63    | -0.01    |
| 82   | Chrysene                   | 40.000 | 43.215 | -8.0   | 90    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 43.887 | -9.7   | 83    | -0.01    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 48.685 | -21.7# | 92    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 46.464 | -16.2  | 86    | -0.01    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 94    | -0.01    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 33.117 | 17.2   | 85    | -0.01    |

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|------|------------------------|--------|--------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 45.083 | -12.7 | 103   | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.305 | 4.2   | 92    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 37.976 | 5.1   | 86    | -0.01    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 37.612 | 6.0   | 85    | -0.01    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 3