

Data Path : Z:\HPCHEM1\BNA F\Data\BF111414\  
 Data File : BF075607.D  
 Acq On : 17 Nov 2014 4:11  
 Operator : TP / JJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 17 06:28:00 2014  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111214.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 17 05:54:27 2014  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 57    | -0.02    |
| 2    | 1,4-Dioxane                 | 0.475 | 0.421 | 11.4  | 50    | -0.07    |
| 3    | Pyridine                    | 1.277 | 1.209 | 5.3   | 53    | -0.17    |
| 4    | n-Nitrosodimethylamine      | 0.676 | 0.718 | -6.2  | 63    | -0.10    |
| 5 S  | 2-Fluorophenol              | 1.132 | 1.122 | 0.9   | 57    | -0.01    |
| 6    | Aniline                     | 1.966 | 2.009 | -2.2  | 58    | -0.01    |
| 7 S  | Phenol-d6                   | 1.361 | 1.389 | -2.1  | 57    | 0.00     |
| 8    | 2-Chlorophenol              | 1.310 | 1.319 | -0.7  | 57    | -0.01    |
| 9    | Benzaldehyde                | 0.916 | 0.892 | 2.6   | 56    | -0.01    |
| 10 C | Phenol                      | 1.661 | 1.608 | 3.2   | 54    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.258 | 1.218 | 3.2   | 55    | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.428 | 1.417 | 0.8   | 57    | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 1.453 | 1.518 | -4.5  | 59    | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 1.362 | 1.467 | -7.7  | 62    | -0.01    |
| 15   | Benzyl Alcohol              | 1.069 | 1.064 | 0.5   | 54    | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.604 | 2.669 | -2.5  | 59    | -0.01    |
| 17   | 2-Methylphenol              | 1.085 | 1.129 | -4.1  | 58    | -0.01    |
| 18   | Hexachloroethane            | 0.498 | 0.495 | 0.6   | 57    | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 0.928 | 0.922 | 0.6   | 56    | -0.01    |
| 20   | 3+4-Methylphenols           | 1.420 | 1.472 | -3.7  | 59    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 56    | -0.02    |
| 22   | Acetophenone                | 0.431 | 0.428 | 0.7   | 57    | -0.01    |
| 23 S | Nitrobenzene-d5             | 0.273 | 0.295 | -8.1  | 60    | -0.01    |
| 24   | Nitrobenzene                | 0.316 | 0.320 | -1.3  | 56    | -0.01    |
| 25   | Isophorone                  | 0.623 | 0.587 | 5.8   | 54    | -0.02    |
| 26 C | 2-Nitrophenol               | 0.144 | 0.158 | -9.7  | 62    | -0.01    |
| 27   | 2,4-Dimethylphenol          | 0.279 | 0.279 | 0.0   | 57    | -0.01    |
| 28   | bis(2-Chloroethoxy)methane  | 0.380 | 0.349 | 8.2   | 52    | -0.01    |
| 29 C | 2,4-Dichlorophenol          | 0.245 | 0.253 | -3.3  | 58    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 0.257 | 0.254 | 1.2   | 57    | -0.02    |
| 31   | Naphthalene                 | 0.892 | 0.920 | -3.1  | 60    | -0.01    |
| 32   | Benzoic acid                | 0.169 | 0.165 | 2.4   | 50    | 0.05     |
| 33   | 4-Chloroaniline             | 0.387 | 0.401 | -3.6  | 58    | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.139 | 0.141 | -1.4  | 58    | -0.02    |
| 35   | Caprolactam                 | 0.081 | 0.087 | -7.4  | 62    | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 0.268 | 0.281 | -4.9  | 60    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.608 | 0.635 | -4.4  | 60    | -0.01    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 55    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.411 | 0.442 | -7.5  | 59    | -0.01    |
| 40 P | Hexachlorocyclopentadiene   | 0.250 | 0.123 | 50.8# | 27#   | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 0.168 | 0.162 | 3.6   | 52    | -0.02    |
| 42 C | 2,4,6-Trichlorophenol       | 0.327 | 0.336 | -2.8  | 56    | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 0.341 | 0.377 | -10.6 | 61    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.107 | 1.136 | -2.6  | 57    | -0.01    |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvqRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.349 | 1.455  | -7.9  | 61    | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.055 | 1.098  | -4.1  | 58    | -0.01    |
| 47   | 2-Nitroaniline             | 0.317 | 0.381  | -20.2 | 66    | -0.01    |
| 48   | Acenaphthylene             | 1.739 | 1.831  | -5.3  | 58    | -0.01    |
| 49   | Dimethylphthalate          | 1.367 | 1.295  | 5.3   | 52    | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 0.269 | 0.288  | -7.1  | 59    | -0.01    |
| 51 C | Acenaphthene               | 1.050 | 1.054  | -0.4  | 56    | -0.01    |
| 52   | 3-Nitroaniline             | 0.318 | 0.372  | -17.0 | 63    | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 0.112 | 0.035# | 68.8# | 16#   | -0.01    |
| 54   | Dibenzofuran               | 1.500 | 1.535  | -2.3  | 58    | -0.01    |
| 55 P | 4-Nitrophenol              | 0.254 | 0.259  | -2.0  | 56    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.354 | 0.368  | -4.0  | 52    | -0.02    |
| 57   | Fluorene                   | 1.213 | 1.215  | -0.2  | 55    | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.270 | 0.273  | -1.1  | 55    | -0.01    |
| 59   | Diethylphthalate           | 1.419 | 1.382  | 2.6   | 52    | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 0.522 | 0.500  | 4.2   | 54    | -0.02    |
| 61   | 4-Nitroaniline             | 0.317 | 0.342  | -7.9  | 59    | -0.01    |
| 62   | Azobenzene                 | 1.248 | 1.162  | 6.9   | 52    | -0.02    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0   | 56    | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.101 | 0.041  | 59.4# | 22#   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 0.633 | 0.633  | 0.0   | 54    | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 0.188 | 0.183  | 2.7   | 54    | -0.02    |
| 67   | Hexachlorobenzene          | 0.214 | 0.206  | 3.7   | 53    | -0.02    |
| 68   | Atrazine                   | 0.196 | 0.195  | 0.5   | 57    | -0.01    |
| 69 C | Pentachlorophenol          | 0.134 | 0.118  | 11.9  | 47#   | -0.02    |
| 70   | Phenanthrene               | 1.053 | 1.080  | -2.6  | 57    | -0.01    |
| 71   | Anthracene                 | 1.088 | 1.080  | 0.7   | 56    | -0.02    |
| 72   | Carbazole                  | 1.065 | 1.099  | -3.2  | 60    | -0.02    |
| 73   | Di-n-butylphthalate        | 1.471 | 1.389  | 5.6   | 53    | -0.02    |
| 74 C | Fluoranthene               | 1.127 | 1.114  | 1.2   | 56    | -0.02    |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0   | 56    | -0.07    |
| 76   | Benzidine                  | 0.636 | 0.668  | -5.0  | 56    | -0.02    |
| 77   | Pyrene                     | 1.163 | 1.172  | -0.8  | 54    | -0.02    |
| 78 S | Terphenyl-d14              | 0.743 | 0.730  | 1.7   | 55    | -0.02    |
| 79   | Butylbenzylphthalate       | 0.653 | 0.654  | -0.2  | 54    | -0.05    |
| 80   | Benzo(a)anthracene         | 1.051 | 1.047  | 0.4   | 55    | -0.08    |
| 81   | 3,3'-Dichlorobenzidine     | 0.388 | 0.425  | -9.5  | 59    | -0.08    |
| 82   | Chrysene                   | 0.909 | 0.956  | -5.2  | 59    | -0.08    |
| 83   | Bis(2-ethylhexyl)phthalate | 1.029 | 0.934  | 9.2   | 50#   | -0.09    |
| 84 c | Di-n-octyl phthalate       | 1.811 | 1.640  | 9.4   | 52    | -0.17    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.102 | 1.158  | -5.1  | 57    | -0.25    |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0   | 58    | -0.23    |
| 87   | Benzo(b)fluoranthene       | 1.069 | 1.048  | 2.0   | 60    | -0.19    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 0.960 | 0.956 | 0.4  | 54    | -0.21    |
| 89 C | Benzo(a)pyrene         | 0.957 | 0.948 | 0.9  | 57    | -0.23    |
| 90   | Dibenzo(a,h)anthracene | 0.999 | 1.018 | -1.9 | 58    | -0.26    |
| 91   | Benzo(a,h,i)perylene   | 0.952 | 0.973 | -2.2 | 59    | -0.25    |

(#) = Out of Range

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