

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022317\  
 Data File : BF093130.D  
 Acq On : 24 Feb 2017 5:07  
 Operator : SJ/MA  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 24 06:11:26 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 17:31:55 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                    | AvqRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000  | 0.0   | 111   | -0.01    |
| 2    | 1,4-Dioxane                 | 0.630 | 0.622  | 1.3   | 112   | -0.05    |
| 3    | Pyridine                    | 1.602 | 1.765  | -10.2 | 121   | -0.05    |
| 4    | n-Nitrosodimethylamine      | 0.752 | 0.803  | -6.8  | 118   | -0.03    |
| 5 S  | 2-Fluorophenol              | 1.166 | 1.226  | -5.1  | 112   | -0.01    |
| 6    | Aniline                     | 2.046 | 2.128  | -4.0  | 119   | 0.00     |
| 7 S  | Phenol-d6                   | 1.500 | 1.462  | 2.5   | 108   | 0.00     |
| 8    | 2-Chlorophenol              | 1.286 | 1.268  | 1.4   | 109   | -0.01    |
| 9    | Benzaldehyde                | 1.075 | 0.921  | 14.3  | 93    | -0.01    |
| 10 C | Phenol                      | 1.755 | 1.590  | 9.4   | 106   | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.401 | 1.363  | 2.7   | 113   | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.506 | 1.550  | -2.9  | 117   | -0.01    |
| 13 C | 1,4-Dichlorobenzene         | 1.525 | 1.565  | -2.6  | 118   | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 1.458 | 1.341  | 8.0   | 101   | -0.01    |
| 15   | Benzyl Alcohol              | 1.110 | 0.967  | 12.9  | 100   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.434 | 2.418  | 0.7   | 112   | -0.01    |
| 17   | 2-Methylphenol              | 1.103 | 1.123  | -1.8  | 108   | 0.00     |
| 18   | Hexachloroethane            | 0.520 | 0.441  | 15.2  | 94    | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 0.955 | 0.922  | 3.5   | 118   | -0.01    |
| 20   | 3+4-Methylphenols           | 1.319 | 1.320  | -0.1  | 108   | -0.01    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000  | 0.0   | 102   | -0.01    |
| 22   | Acetophenone                | 0.457 | 0.477  | -4.4  | 109   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.359 | 0.396  | -10.3 | 111   | 0.00     |
| 24   | Nitrobenzene                | 0.369 | 0.389  | -5.4  | 115   | -0.01    |
| 25   | Isophorone                  | 0.669 | 0.701  | -4.8  | 109   | -0.01    |
| 26 C | 2-Nitrophenol               | 0.175 | 0.190  | -8.6  | 102   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.308 | 0.340  | -10.4 | 107   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.443 | 0.516  | -16.5 | 119   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.287 | 0.284  | 1.0   | 105   | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 0.309 | 0.306  | 1.0   | 103   | -0.01    |
| 31   | Naphthalene                 | 1.014 | 0.964  | 4.9   | 100   | -0.01    |
| 32   | Benzoic acid                | 0.156 | 0.164  | -5.1  | 96    | 0.00     |
| 33   | 4-Chloroaniline             | 0.398 | 0.437  | -9.8  | 110   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.170 | 0.161  | 5.3   | 96    | -0.01    |
| 35   | Caprolactam                 | 0.090 | 0.086  | 4.4   | 91    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.299 | 0.295  | 1.3   | 99    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.651 | 0.627  | 3.7   | 98    | -0.01    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000  | 0.0   | 90    | -0.01    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.561 | 0.608  | -8.4  | 99    | -0.01    |
| 40 P | Hexachlorocyclopentadiene   | 0.253 | 0.032# | 87.4# | 11#   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.145 | 0.121  | 16.6  | 69    | -0.01    |
| 42 C | 2,4,6-Trichlorophenol       | 0.369 | 0.377  | -2.2  | 87    | -0.01    |
| 43   | 2,4,5-Trichlorophenol       | 0.404 | 0.421  | -4.2  | 97    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.104 | 1.126  | -2.0  | 87    | -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              | 1.448 | 1.569  | -8.4   | 94    | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.133 | 1.187  | -4.8   | 89    | -0.01    |
| 47   | 2-Nitroaniline             | 0.381 | 0.445  | -16.8  | 112   | -0.01    |
| 48   | Acenaphthylene             | 1.957 | 1.841  | 5.9    | 91    | -0.01    |
| 49   | Dimethylphthalate          | 1.347 | 1.534  | -13.9  | 102   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.291 | 0.284  | 2.4    | 85    | -0.01    |
| 51 C | Acenaphthene               | 1.170 | 1.028  | 12.1   | 83    | -0.01    |
| 52   | 3-Nitroaniline             | 0.333 | 0.371  | -11.4  | 94    | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 0.130 | 0.021# | 83.8#  | 14#   | 0.00     |
| 54   | Dibenzofuran               | 1.565 | 1.425  | 8.9    | 88    | -0.01    |
| 55 P | 4-Nitrophenol              | 0.240 | 0.212  | 11.7   | 80    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.387 | 0.337  | 12.9   | 70    | -0.01    |
| 57   | Fluorene                   | 1.204 | 1.171  | 2.7    | 90    | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.270 | 0.271  | -0.4   | 81    | -0.01    |
| 59   | Diethylphthalate           | 1.270 | 1.305  | -2.8   | 90    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 0.578 | 0.539  | 6.7    | 86    | -0.01    |
| 61   | 4-Nitroaniline             | 0.341 | 0.349  | -2.3   | 93    | -0.01    |
| 62   | Azobenzene                 | 1.312 | 1.323  | -0.8   | 91    | -0.01    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0    | 77    | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.103 | 0.030  | 70.9#  | 20#   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 0.639 | 0.781  | -22.2# | 94    | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.209 | 0.229  | -9.6   | 87    | -0.01    |
| 67   | Hexachlorobenzene          | 0.206 | 0.214  | -3.9   | 82    | -0.01    |
| 68   | Atrazine                   | 0.205 | 0.208  | -1.5   | 83    | -0.01    |
| 69 C | Pentachlorophenol          | 0.089 | 0.104  | -16.9  | 86    | -0.01    |
| 70   | Phenanthrene               | 1.146 | 1.132  | 1.2    | 76    | -0.01    |
| 71   | Anthracene                 | 1.151 | 1.148  | 0.3    | 80    | -0.02    |
| 72   | Carbazole                  | 1.100 | 1.035  | 5.9    | 69    | -0.01    |
| 73   | Di-n-butylphthalate        | 1.190 | 1.377  | -15.7  | 90    | -0.01    |
| 74 C | Fluoranthene               | 1.182 | 1.124  | 4.9    | 72    | -0.01    |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0    | 81    | -0.01    |
| 76   | Benzidine                  | 0.852 | 0.890  | -4.5   | 86    | -0.01    |
| 77   | Pyrene                     | 1.497 | 1.398  | 6.6    | 72    | -0.01    |
| 78 S | Terphenyl-d14              | 0.851 | 0.735  | 13.6   | 73    | -0.02    |
| 79   | Butylbenzylphthalate       | 0.608 | 0.619  | -1.8   | 83    | -0.01    |
| 80   | Benzo(a)anthracene         | 1.223 | 1.211  | 1.0    | 80    | -0.01    |
| 81   | 3,3'-Dichlorobenzidine     | 0.436 | 0.462  | -6.0   | 84    | -0.02    |
| 82   | Chrysene                   | 1.145 | 1.235  | -7.9   | 81    | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.831 | 0.855  | -2.9   | 81    | -0.02    |
| 84 c | Di-n-octyl phthalate       | 1.354 | 1.608  | -18.8  | 92    | -0.01    |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.887 | 0.944  | -6.4   | 91    | -0.02    |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0    | 89    | -0.02    |
| 87   | Benzo(b)fluoranthene       | 1.316 | 1.435  | -9.0   | 92    | -0.01    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.137 | 1.034 | 9.1  | 88    | -0.02    |
| 89 C | Benzo(a)pyrene         | 1.139 | 1.150 | -1.0 | 90    | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 0.920 | 0.911 | 1.0  | 93    | -0.02    |
| 91   | Benzo(a,h,i)perylene   | 0.930 | 0.867 | 6.8  | 89    | -0.03    |

(#) = Out of Range

SPCC's out = 2 CCC's out = 1