

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100416\  
 Data File : BF090349.D  
 Acq On : 4 Oct 2016 18:39  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 05 03:24:35 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF100416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 04 14:16:07 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.619 | 0.637 | -2.9  | 94    | 0.00     |
| 3    | Pyridine                    | 1.641 | 1.756 | -7.0  | 98    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.594 | 0.693 | -16.7 | 106   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.268 | 1.250 | 1.4   | 84    | 0.00     |
| 6    | Aniline                     | 2.178 | 2.227 | -2.2  | 93    | 0.00     |
| 7 S  | Phenol-d6                   | 1.585 | 1.567 | 1.1   | 88    | 0.00     |
| 8    | 2-Chlorophenol              | 1.425 | 1.446 | -1.5  | 96    | 0.00     |
| 9    | Benzaldehyde                | 0.736 | 0.715 | 2.9   | 91    | 0.00     |
| 10 C | Phenol                      | 1.928 | 1.741 | 9.7   | 75    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.369 | 1.315 | 3.9   | 80    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.480 | 1.490 | -0.7  | 96    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.503 | 1.402 | 6.7   | 84    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.429 | 1.476 | -3.3  | 97    | 0.00     |
| 15   | Benzyl Alcohol              | 1.117 | 1.081 | 3.2   | 93    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.092 | 2.300 | -9.9  | 98    | 0.00     |
| 17   | 2-Methylphenol              | 1.104 | 1.088 | 1.4   | 87    | 0.00     |
| 18   | Hexachloroethane            | 0.544 | 0.550 | -1.1  | 88    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.012 | 1.143 | -12.9 | 109   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.403 | 1.500 | -6.9  | 100   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 22   | Acetophenone                | 0.463 | 0.465 | -0.4  | 92    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.343 | 0.393 | -14.6 | 95    | 0.00     |
| 24   | Nitrobenzene                | 0.366 | 0.415 | -13.4 | 108   | 0.00     |
| 25   | Isophorone                  | 0.653 | 0.703 | -7.7  | 101   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.141 | 0.151 | -7.1  | 95    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.319 | 0.315 | 1.3   | 85    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.405 | 0.433 | -6.9  | 88    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.261 | 0.243 | 6.9   | 79    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.292 | 0.269 | 7.9   | 81    | 0.00     |
| 31   | Naphthalene                 | 0.956 | 0.936 | 2.1   | 92    | 0.00     |
| 32   | Benzoic acid                | 0.188 | 0.190 | -1.1  | 87    | 0.00     |
| 33   | 4-Chloroaniline             | 0.382 | 0.386 | -1.0  | 83    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.172 | 0.155 | 9.9   | 80    | 0.00     |
| 35   | Caprolactam                 | 0.068 | 0.066 | 2.9   | 83    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.280 | 0.275 | 1.8   | 90    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.600 | 0.597 | 0.5   | 86    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 80    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.565 | 0.584 | -3.4  | 86    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.330 | 0.380 | -15.2 | 98    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.174 | 0.142 | 18.4  | 63    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.355 | 0.401 | -13.0 | 92    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.357 | 0.398 | -11.5 | 87    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.227 | 1.410 | -14.9 | 92    | 0.00     |

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

|      | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.548 | 1.714 | -10.7  | 97    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.162 | 1.301 | -12.0  | 90    | 0.00     |
| 47   | 2-Nitroaniline             | 0.317 | 0.374 | -18.0  | 95    | 0.00     |
| 48   | Acenaphthylene             | 1.758 | 1.837 | -4.5   | 80    | 0.00     |
| 49   | Dimethylphthalate          | 1.184 | 1.214 | -2.5   | 87    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.259 | 0.289 | -11.6  | 100   | 0.00     |
| 51 C | Acenaphthene               | 1.070 | 1.088 | -1.7   | 83    | 0.00     |
| 52   | 3-Nitroaniline             | 0.293 | 0.286 | 2.4    | 78    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.078 | 0.093 | -19.2  | 87    | 0.00     |
| 54   | Dibenzofuran               | 1.415 | 1.406 | 0.6    | 81    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.234 | 0.266 | -13.7  | 86    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.312 | 0.360 | -15.4  | 100   | 0.00     |
| 57   | Fluorene                   | 1.183 | 1.181 | 0.2    | 82    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.252 | 0.234 | 7.1    | 69    | 0.00     |
| 59   | Diethylphthalate           | 1.210 | 1.246 | -3.0   | 82    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.561 | 0.601 | -7.1   | 88    | 0.00     |
| 61   | 4-Nitroaniline             | 0.264 | 0.310 | -17.4  | 89    | 0.00     |
| 62   | Azobenzene                 | 1.261 | 1.518 | -20.4  | 107   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 82    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.076 | 0.088 | -15.8  | 86    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.682 | 0.765 | -12.2  | 89    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.216 | 0.220 | -1.9   | 87    | 0.00     |
| 67   | Hexachlorobenzene          | 0.254 | 0.239 | 5.9    | 80    | 0.00     |
| 68   | Atrazine                   | 0.163 | 0.141 | 13.5   | 75    | 0.00     |
| 69 C | Pentachlorophenol          | 0.142 | 0.136 | 4.2    | 76    | 0.00     |
| 70   | Phenanthrene               | 1.073 | 1.114 | -3.8   | 85    | 0.00     |
| 71   | Anthracene                 | 1.071 | 1.044 | 2.5    | 77    | 0.00     |
| 72   | Carbazole                  | 0.985 | 0.979 | 0.6    | 85    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.177 | 1.281 | -8.8   | 85    | 0.00     |
| 74 C | Fluoranthene               | 1.018 | 1.009 | 0.9    | 77    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 76   | Benzidine                  | 0.550 | 0.334 | 39.3#  | 43#   | 0.00     |
| 77   | Pyrene                     | 1.281 | 1.360 | -6.2   | 77    | 0.00     |
| 78 S | Terphenyl-d14              | 0.859 | 0.970 | -12.9  | 83    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.505 | 0.621 | -23.0  | 89    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.121 | 1.185 | -5.7   | 83    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.386 | 0.461 | -19.4  | 89    | 0.00     |
| 82   | Chrysene                   | 1.051 | 1.128 | -7.3   | 88    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.807 | 1.000 | -23.9  | 92    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.173 | 1.564 | -33.3# | 96    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.129 | 1.222 | -8.2   | 87    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 84    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.150 | 1.133 | 1.5    | 83    | 0.00     |

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| 88   | Benzo(k)fluoranthene   | 1.099 | 1.204 | -9.6 | 83    | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.049 | 1.103 | -5.1 | 84    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 1.029 | 1.118 | -8.6 | 87    | 0.00     |
| 91   | Benzo(g,h,i)perylene   | 1.008 | 1.100 | -9.1 | 89    | 0.00     |

(#) = Out of Range

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