

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011816\  
 Data File : BF084542.D  
 Acq On : 18 Jan 2016 18:20  
 Operator : SJ/UM  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 19 00:12:46 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 14 14:15:52 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 81    | -0.03    |
| 2    | 1,4-Dioxane                 | 0.586 | 0.575 | 1.9   | 76    | -0.06    |
| 3    | Pyridine                    | 1.633 | 1.413 | 13.5  | 64    | -0.07    |
| 4    | n-Nitrosodimethylamine      | 0.838 | 0.684 | 18.4  | 62    | -0.06    |
| 5 S  | 2-Fluorophenol              | 1.236 | 1.165 | 5.7   | 81    | -0.05    |
| 6    | Aniline                     | 2.272 | 2.134 | 6.1   | 74    | -0.03    |
| 7 S  | Phenol-d6                   | 1.553 | 1.523 | 1.9   | 78    | -0.03    |
| 8    | 2-Chlorophenol              | 1.403 | 1.396 | 0.5   | 81    | -0.05    |
| 9    | Benzaldehyde                | 1.011 | 0.903 | 10.7  | 72    | -0.05    |
| 10 C | Phenol                      | 1.766 | 1.652 | 6.5   | 70    | -0.03    |
| 11   | bis(2-Chloroethyl)ether     | 1.368 | 1.365 | 0.2   | 84    | -0.05    |
| 12   | 1,3-Dichlorobenzene         | 1.447 | 1.550 | -7.1  | 89    | -0.03    |
| 13 C | 1,4-Dichlorobenzene         | 1.451 | 1.510 | -4.1  | 80    | -0.03    |
| 14   | 1,2-Dichlorobenzene         | 1.390 | 1.357 | 2.4   | 84    | -0.03    |
| 15   | Benzyl Alcohol              | 1.306 | 1.119 | 14.3  | 66    | -0.03    |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.491 | 2.133 | 14.4  | 71    | -0.03    |
| 17   | 2-Methylphenol              | 1.176 | 1.215 | -3.3  | 78    | -0.03    |
| 18   | Hexachloroethane            | 0.580 | 0.603 | -4.0  | 81    | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.051 | 0.981 | 6.7   | 77    | -0.03    |
| 20   | 3+4-Methylphenols           | 1.382 | 1.284 | 7.1   | 80    | -0.03    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 80    | -0.03    |
| 22   | Acetophenone                | 0.481 | 0.500 | -4.0  | 78    | -0.03    |
| 23 S | Nitrobenzene-d5             | 0.359 | 0.329 | 8.4   | 75    | -0.03    |
| 24   | Nitrobenzene                | 0.364 | 0.405 | -11.3 | 80    | -0.03    |
| 25   | Isophorone                  | 0.687 | 0.671 | 2.3   | 78    | -0.03    |
| 26 C | 2-Nitrophenol               | 0.166 | 0.173 | -4.2  | 86    | -0.05    |
| 27   | 2,4-Dimethylphenol          | 0.336 | 0.321 | 4.5   | 72    | -0.03    |
| 28   | bis(2-Chloroethoxy)methane  | 0.420 | 0.426 | -1.4  | 88    | -0.03    |
| 29 C | 2,4-Dichlorophenol          | 0.280 | 0.296 | -5.7  | 87    | -0.03    |
| 30   | 1,2,4-Trichlorobenzene      | 0.289 | 0.310 | -7.3  | 83    | -0.03    |
| 31   | Naphthalene                 | 0.907 | 0.974 | -7.4  | 87    | -0.03    |
| 32   | Benzoic acid                | 0.198 | 0.210 | -6.1  | 81    | -0.01    |
| 33   | 4-Chloroaniline             | 0.416 | 0.400 | 3.8   | 80    | -0.05    |
| 34 C | Hexachlorobutadiene         | 0.166 | 0.164 | 1.2   | 79    | -0.03    |
| 35   | Caprolactam                 | 0.094 | 0.101 | -7.4  | 77    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol     | 0.313 | 0.295 | 5.8   | 79    | -0.03    |
| 37   | 2-Methylnaphthalene         | 0.651 | 0.584 | 10.3  | 75    | -0.03    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 76    | -0.03    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.575 | 0.650 | -13.0 | 86    | -0.03    |
| 40 P | Hexachlorocyclopentadiene   | 0.347 | 0.331 | 4.6   | 71    | -0.03    |
| 41 S | 2,4,6-Tribromophenol        | 0.202 | 0.207 | -2.5  | 73    | -0.05    |
| 42 C | 2,4,6-Trichlorophenol       | 0.430 | 0.437 | -1.6  | 79    | -0.03    |
| 43   | 2,4,5-Trichlorophenol       | 0.412 | 0.441 | -7.0  | 78    | -0.03    |
| 44 S | 2-Fluorobiphenyl            | 1.317 | 1.129 | 14.3  | 74    | -0.03    |

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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                   | AvqRF | CCRF  | %Dev    | Area% | Dev(min) |
|------|----------------------------|-------|-------|---------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.590 | 1.683 | -5.8    | 86    | -0.03    |
| 46   | 2-Chloronaphthalene        | 1.249 | 1.253 | -0.3    | 84    | -0.03    |
| 47   | 2-Nitroaniline             | 0.412 | 0.491 | -19.2   | 94    | -0.03    |
| 48   | Acenaphthylene             | 1.845 | 1.759 | 4.7     | 69    | -0.03    |
| 49   | Dimethylphthalate          | 1.430 | 1.431 | -0.1    | 73    | -0.03    |
| 50   | 2,6-Dinitrotoluene         | 0.314 | 0.317 | -1.0    | 69    | -0.03    |
| 51 C | Acenaphthene               | 1.237 | 1.277 | -3.2    | 73    | -0.03    |
| 52   | 3-Nitroaniline             | 0.389 | 0.400 | -2.8    | 72    | -0.03    |
| 53 P | 2,4-Dinitrophenol          | 0.093 | 0.200 | -115.1# | 114   | -0.03    |
| 54   | Dibenzofuran               | 1.812 | 1.600 | 11.7    | 70    | -0.03    |
| 55 P | 4-Nitrophenol              | 0.282 | 0.311 | -10.3   | 70    | -0.03    |
| 56   | 2,4-Dinitrotoluene         | 0.397 | 0.391 | 1.5     | 64    | -0.03    |
| 57   | Fluorene                   | 1.400 | 1.152 | 17.7    | 66    | -0.03    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.352 | 0.374 | -6.3    | 76    | -0.03    |
| 59   | Diethylphthalate           | 1.410 | 1.495 | -6.0    | 79    | -0.03    |
| 60   | 4-Chlorophenyl-phenylether | 0.564 | 0.647 | -14.7   | 88    | -0.03    |
| 61   | 4-Nitroaniline             | 0.346 | 0.417 | -20.5   | 94    | -0.02    |
| 62   | Azobenzene                 | 1.546 | 1.604 | -3.8    | 77    | -0.03    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0     | 81    | -0.03    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.109 | 0.139 | -27.5#  | 99    | -0.03    |
| 65 c | n-Nitrosodiphenylamine     | 0.639 | 0.591 | 7.5     | 74    | -0.03    |
| 66   | 4-Bromophenyl-phenylether  | 0.215 | 0.215 | 0.0     | 76    | -0.03    |
| 67   | Hexachlorobenzene          | 0.242 | 0.228 | 5.8     | 80    | -0.03    |
| 68   | Atrazine                   | 0.209 | 0.210 | -0.5    | 72    | -0.03    |
| 69 C | Pentachlorophenol          | 0.126 | 0.124 | 1.6     | 70    | -0.03    |
| 70   | Phenanthrene               | 1.046 | 0.953 | 8.9     | 68    | -0.03    |
| 71   | Anthracene                 | 1.026 | 1.118 | -9.0    | 92    | -0.03    |
| 72   | Carbazole                  | 1.003 | 0.939 | 6.4     | 73    | -0.05    |
| 73   | Di-n-butylphthalate        | 1.111 | 1.203 | -8.3    | 86    | -0.03    |
| 74 C | Fluoranthene               | 1.093 | 1.095 | -0.2    | 84    | -0.03    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0     | 55    | -0.03    |
| 76   | Benzidine                  | 0.717 | 0.886 | -23.6   | 67    | -0.03    |
| 77   | Pyrene                     | 1.569 | 2.102 | -34.0#  | 84    | -0.03    |
| 78 S | Terphenyl-d14              | 0.896 | 1.140 | -27.2#  | 82    | -0.03    |
| 79   | Butylbenzylphthalate       | 0.679 | 0.730 | -7.5    | 58    | -0.05    |
| 80   | Benzo(a)anthracene         | 1.174 | 1.243 | -5.9    | 62    | -0.03    |
| 81   | 3,3'-Dichlorobenzidine     | 0.410 | 0.501 | -22.2   | 66    | -0.03    |
| 82   | Chrysene                   | 1.128 | 1.213 | -7.5    | 60    | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.858 | 0.888 | -3.5    | 60    | -0.03    |
| 84 c | Di-n-octyl phthalate       | 1.449 | 1.364 | 5.9     | 49#   | -0.03    |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.895 | 0.997 | -11.4   | 63    | -0.07    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0     | 57    | -0.06    |
| 87   | Benzo(b)fluoranthene       | 1.308 | 1.353 | -3.4    | 57    | -0.05    |

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| 88   | Benzo(k)fluoranthene   | 1.070 | 1.061 | 0.8  | 57    | -0.05    |
| 89 C | Benzo(a)pyrene         | 1.110 | 1.167 | -5.1 | 58    | -0.05    |
| 90   | Dibenzo(a,h)anthracene | 0.955 | 1.003 | -5.0 | 63    | -0.07    |
| 91   | Benzo(a,h,i)perylene   | 0.989 | 1.053 | -6.5 | 65    | -0.08    |

(#) = Out of Range

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