

Data Path : V:\HPCHEM1\BNA F\DATA\BF070816\  
 Data File : BF088856.D  
 Acq On : 9 Jul 2016 6:36  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jul 09 07:04:02 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 08 18:51:20 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   | 75    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.662 | 0.580 | 12.4  | 67    | 0.00     |
| 3    | Pyridine                    | 1.920 | 1.637 | 14.7  | 66    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.733 | 0.594 | 19.0  | 63    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.334 | 1.170 | 12.3  | 65    | -0.01    |
| 6    | Aniline                     | 2.513 | 2.275 | 9.5   | 68    | 0.00     |
| 7 S  | Phenol-d6                   | 1.724 | 1.547 | 10.3  | 70    | 0.00     |
| 8    | 2-Chlorophenol              | 1.434 | 1.324 | 7.7   | 74    | 0.00     |
| 9    | Benzaldehyde                | 1.168 | 0.933 | 20.1  | 64    | 0.00     |
| 10 C | Phenol                      | 1.968 | 1.631 | 17.1  | 62    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.468 | 1.393 | 5.1   | 76    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.578 | 1.618 | -2.5  | 84    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.567 | 1.624 | -3.6  | 83    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.466 | 1.344 | 8.3   | 77    | 0.00     |
| 15   | Benzyl Alcohol              | 1.269 | 1.102 | 13.2  | 63    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.125 | 1.638 | 22.9  | 59    | 0.00     |
| 17   | 2-Methylphenol              | 1.170 | 1.147 | 2.0   | 74    | 0.01     |
| 18   | Hexachloroethane            | 0.606 | 0.602 | 0.7   | 76    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.158 | 1.107 | 4.4   | 83    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.404 | 1.233 | 12.2  | 71    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 73    | 0.00     |
| 22   | Acetophenone                | 0.485 | 0.498 | -2.7  | 77    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.382 | 0.335 | 12.3  | 68    | 0.00     |
| 24   | Nitrobenzene                | 0.385 | 0.400 | -3.9  | 80    | 0.00     |
| 25   | Isophorone                  | 0.707 | 0.651 | 7.9   | 70    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.158 | 0.157 | 0.6   | 79    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.329 | 0.290 | 11.9  | 64    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.460 | 0.458 | 0.4   | 80    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.266 | 0.282 | -6.0  | 82    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.291 | 0.315 | -8.2  | 79    | 0.00     |
| 31   | Naphthalene                 | 0.986 | 1.075 | -9.0  | 79    | 0.00     |
| 32   | Benzoic acid                | 0.239 | 0.197 | 17.6  | 61    | 0.00     |
| 33   | 4-Chloroaniline             | 0.439 | 0.414 | 5.7   | 70    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.156 | 0.161 | -3.2  | 76    | 0.00     |
| 35   | Caprolactam                 | 0.090 | 0.090 | 0.0   | 71    | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 0.314 | 0.340 | -8.3  | 80    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.635 | 0.645 | -1.6  | 84    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 74    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.665 | 0.768 | -15.5 | 83    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.327 | 0.274 | 16.2  | 63    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.186 | 0.217 | -16.7 | 83    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.439 | 0.406 | 7.5   | 75    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.377 | 0.436 | -15.6 | 83    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.266 | 1.249 | 1.3   | 81    | 0.00     |

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|      | Compound                   | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.656 | 1.875 | -13.2  | 82    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.300 | 1.394 | -7.2   | 78    | 0.00     |
| 47   | 2-Nitroaniline             | 0.461 | 0.455 | 1.3    | 66    | 0.00     |
| 48   | Acenaphthylene             | 2.069 | 2.232 | -7.9   | 80    | 0.00     |
| 49   | Dimethylphthalate          | 1.425 | 1.481 | -3.9   | 84    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.316 | 0.326 | -3.2   | 82    | -0.01    |
| 51 C | Acenaphthene               | 1.268 | 1.395 | -10.0  | 86    | 0.00     |
| 52   | 3-Nitroaniline             | 0.401 | 0.380 | 5.2    | 62    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.139 | 0.104 | 25.2#  | 57    | 0.00     |
| 54   | Dibenzofuran               | 1.660 | 1.716 | -3.4   | 78    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.305 | 0.246 | 19.3   | 55    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.413 | 0.431 | -4.4   | 82    | 0.00     |
| 57   | Fluorene                   | 1.279 | 1.276 | 0.2    | 71    | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.292 | 0.311 | -6.5   | 77    | 0.00     |
| 59   | Diethylphthalate           | 1.430 | 1.415 | 1.0    | 74    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.594 | 0.608 | -2.4   | 83    | 0.00     |
| 61   | 4-Nitroaniline             | 0.386 | 0.410 | -6.2   | 86    | 0.00     |
| 62   | Azobenzene                 | 1.631 | 1.639 | -0.5   | 78    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 79    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.107 | 0.087 | 18.7   | 58    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.677 | 0.669 | 1.2    | 75    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.202 | 0.211 | -4.5   | 85    | 0.00     |
| 67   | Hexachlorobenzene          | 0.223 | 0.204 | 8.5    | 72    | 0.00     |
| 68   | Atrazine                   | 0.211 | 0.210 | 0.5    | 75    | 0.00     |
| 69 C | Pentachlorophenol          | 0.132 | 0.116 | 12.1   | 65    | 0.00     |
| 70   | Phenanthrene               | 1.093 | 1.036 | 5.2    | 79    | 0.00     |
| 71   | Anthracene                 | 1.087 | 1.038 | 4.5    | 75    | 0.00     |
| 72   | Carbazole                  | 1.023 | 0.900 | 12.0   | 77    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.190 | 1.249 | -5.0   | 87    | 0.00     |
| 74 C | Fluoranthene               | 1.108 | 0.955 | 13.8   | 65    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 60    | -0.01    |
| 76   | Benzidine                  | 1.011 | 0.930 | 8.0    | 53    | 0.00     |
| 77   | Pyrene                     | 1.696 | 1.985 | -17.0  | 66    | 0.00     |
| 78 S | Terphenyl-d14              | 0.898 | 1.033 | -15.0  | 70    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.756 | 0.909 | -20.2  | 72    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.288 | 1.343 | -4.3   | 62    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.484 | 0.467 | 3.5    | 60    | 0.00     |
| 82   | Chrysene                   | 1.274 | 1.394 | -9.4   | 66    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.864 | 1.070 | -23.8  | 70    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.467 | 1.671 | -13.9  | 65    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.980 | 1.475 | -50.5# | 94    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 72    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.255 | 1.049 | 16.4   | 63    | 0.00     |

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|------|------------------------|-------|-------|--------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.092 | 1.137 | -4.1   | 75    | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.062 | 1.038 | 2.3    | 70    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.887 | 1.132 | -27.6# | 94    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 0.918 | 1.180 | -28.5# | 94    | 0.01     |

(#) = Out of Range

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