

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF020317\  
 Data File : BF092780.D  
 Acq On : 3 Feb 2017 17:09  
 Operator : SJ/MA  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Feb 03 23:20:07 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 30 14:50:05 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 111   | 0.05     |
| 2    | 1,4-Dioxane                 | 0.630 | 0.506 | 19.7  | 91    | 0.08     |
| 3    | Pyridine                    | 1.602 | 1.376 | 14.1  | 94    | 0.10     |
| 4    | n-Nitrosodimethylamine      | 0.752 | 0.604 | 19.7  | 89    | 0.09     |
| 5 S  | 2-Fluorophenol              | 1.166 | 0.948 | 18.7  | 86    | 0.05     |
| 6    | Aniline                     | 2.046 | 2.103 | -2.8  | 117   | 0.03     |
| 7 S  | Phenol-d6                   | 1.500 | 1.537 | -2.5  | 114   | 0.03     |
| 8    | 2-Chlorophenol              | 1.286 | 1.263 | 1.8   | 108   | 0.05     |
| 9    | Benzaldehyde                | 1.075 | 1.069 | 0.6   | 107   | 0.05     |
| 10 C | Phenol                      | 1.755 | 1.667 | 5.0   | 111   | 0.05     |
| 11   | bis(2-Chloroethyl)ether     | 1.401 | 1.508 | -7.6  | 125   | 0.05     |
| 12   | 1,3-Dichlorobenzene         | 1.506 | 1.454 | 3.5   | 109   | 0.03     |
| 13 C | 1,4-Dichlorobenzene         | 1.525 | 1.443 | 5.4   | 108   | 0.05     |
| 14   | 1,2-Dichlorobenzene         | 1.458 | 1.459 | -0.1  | 110   | 0.05     |
| 15   | Benzyl Alcohol              | 1.110 | 1.092 | 1.6   | 112   | 0.05     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.434 | 2.500 | -2.7  | 115   | 0.05     |
| 17   | 2-Methylphenol              | 1.103 | 1.175 | -6.5  | 112   | 0.05     |
| 18   | Hexachloroethane            | 0.520 | 0.445 | 14.4  | 94    | 0.05     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.955 | 0.841 | 11.9  | 107   | 0.03     |
| 20   | 3+4-Methylphenols           | 1.319 | 1.196 | 9.3   | 98    | 0.03     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 93    | 0.05     |
| 22   | Acetophenone                | 0.457 | 0.477 | -4.4  | 100   | 0.05     |
| 23 S | Nitrobenzene-d5             | 0.359 | 0.373 | -3.9  | 96    | 0.05     |
| 24   | Nitrobenzene                | 0.369 | 0.344 | 6.8   | 93    | 0.03     |
| 25   | Isophorone                  | 0.669 | 0.660 | 1.3   | 94    | 0.05     |
| 26 C | 2-Nitrophenol               | 0.175 | 0.206 | -17.7 | 101   | 0.05     |
| 27   | 2,4-Dimethylphenol          | 0.308 | 0.310 | -0.6  | 90    | 0.05     |
| 28   | bis(2-Chloroethoxy)methane  | 0.443 | 0.452 | -2.0  | 96    | 0.05     |
| 29 C | 2,4-Dichlorophenol          | 0.287 | 0.280 | 2.4   | 95    | 0.05     |
| 30   | 1,2,4-Trichlorobenzene      | 0.309 | 0.304 | 1.6   | 94    | 0.05     |
| 31   | Naphthalene                 | 1.014 | 0.965 | 4.8   | 92    | 0.05     |
| 32   | Benzoic acid                | 0.156 | 0.167 | -7.1  | 90    | 0.03     |
| 33   | 4-Chloroaniline             | 0.398 | 0.440 | -10.6 | 101   | 0.05     |
| 34 C | Hexachlorobutadiene         | 0.170 | 0.163 | 4.1   | 90    | 0.05     |
| 35   | Caprolactam                 | 0.090 | 0.100 | -11.1 | 96    | 0.05     |
| 36 C | 4-Chloro-3-methylphenol     | 0.299 | 0.332 | -11.0 | 102   | 0.06     |
| 37   | 2-Methylnaphthalene         | 0.651 | 0.673 | -3.4  | 97    | 0.05     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 100   | 0.06     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.561 | 0.564 | -0.5  | 102   | 0.06     |
| 40 P | Hexachlorocyclopentadiene   | 0.253 | 0.221 | 12.6  | 86    | 0.05     |
| 41 S | 2,4,6-Tribromophenol        | 0.145 | 0.152 | -4.8  | 97    | 0.06     |
| 42 C | 2,4,6-Trichlorophenol       | 0.369 | 0.388 | -5.1  | 99    | 0.06     |
| 43   | 2,4,5-Trichlorophenol       | 0.404 | 0.425 | -5.2  | 109   | 0.06     |
| 44 S | 2-Fluorobiphenyl            | 1.104 | 1.050 | 4.9   | 90    | 0.06     |

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

|      | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.448 | 1.521 | -5.0  | 101   | 0.06     |
| 46   | 2-Chloronaphthalene        | 1.133 | 1.129 | 0.4   | 94    | 0.06     |
| 47   | 2-Nitroaniline             | 0.381 | 0.398 | -4.5  | 112   | 0.06     |
| 48   | Acenaphthylene             | 1.957 | 1.904 | 2.7   | 105   | 0.05     |
| 49   | Dimethylphthalate          | 1.347 | 1.367 | -1.5  | 101   | 0.06     |
| 50   | 2,6-Dinitrotoluene         | 0.291 | 0.306 | -5.2  | 103   | 0.06     |
| 51 C | Acenaphthene               | 1.170 | 1.194 | -2.1  | 108   | 0.06     |
| 52   | 3-Nitroaniline             | 0.333 | 0.339 | -1.8  | 96    | 0.06     |
| 53 P | 2,4-Dinitrophenol          | 0.130 | 0.145 | -11.5 | 106   | 0.05     |
| 54   | Dibenzofuran               | 1.565 | 1.491 | 4.7   | 102   | 0.06     |
| 55 P | 4-Nitrophenol              | 0.240 | 0.263 | -9.6  | 111   | 0.06     |
| 56   | 2,4-Dinitrotoluene         | 0.387 | 0.365 | 5.7   | 84    | 0.05     |
| 57   | Fluorene                   | 1.204 | 1.289 | -7.1  | 110   | 0.06     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.270 | 0.286 | -5.9  | 95    | 0.06     |
| 59   | Diethylphthalate           | 1.270 | 1.312 | -3.3  | 101   | 0.06     |
| 60   | 4-Chlorophenyl-phenylether | 0.578 | 0.602 | -4.2  | 107   | 0.06     |
| 61   | 4-Nitroaniline             | 0.341 | 0.340 | 0.3   | 101   | 0.06     |
| 62   | Azobenzene                 | 1.312 | 1.349 | -2.8  | 103   | 0.06     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 104   | 0.07     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.103 | 0.111 | -7.8  | 96    | 0.05     |
| 65 c | n-Nitrosodiphenylamine     | 0.639 | 0.608 | 4.9   | 98    | 0.05     |
| 66   | 4-Bromophenyl-phenylether  | 0.209 | 0.212 | -1.4  | 109   | 0.06     |
| 67   | Hexachlorobenzene          | 0.206 | 0.210 | -1.9  | 109   | 0.06     |
| 68   | Atrazine                   | 0.205 | 0.217 | -5.9  | 118   | 0.06     |
| 69 C | Pentachlorophenol          | 0.089 | 0.102 | -14.6 | 113   | 0.06     |
| 70   | Phenanthrene               | 1.146 | 1.065 | 7.1   | 96    | 0.06     |
| 71   | Anthracene                 | 1.151 | 1.130 | 1.8   | 106   | 0.07     |
| 72   | Carbazole                  | 1.100 | 0.982 | 10.7  | 88    | 0.06     |
| 73   | Di-n-butylphthalate        | 1.190 | 1.236 | -3.9  | 109   | 0.06     |
| 74 C | Fluoranthene               | 1.182 | 1.072 | 9.3   | 92    | 0.06     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 101   | 0.06     |
| 76   | Benzidine                  | 0.852 | 0.839 | 1.5   | 100   | 0.07     |
| 77   | Pyrene                     | 1.497 | 1.355 | 9.5   | 87    | 0.06     |
| 78 S | Terphenyl-d14              | 0.851 | 0.911 | -7.1  | 113   | 0.07     |
| 79   | Butylbenzylphthalate       | 0.608 | 0.659 | -8.4  | 110   | 0.07     |
| 80   | Benzo(a)anthracene         | 1.223 | 1.199 | 2.0   | 98    | 0.06     |
| 81   | 3,3'-Dichlorobenzidine     | 0.436 | 0.430 | 1.4   | 97    | 0.07     |
| 82   | Chrysene                   | 1.145 | 1.208 | -5.5  | 99    | 0.07     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.831 | 0.868 | -4.5  | 102   | 0.07     |
| 84 c | Di-n-octyl phthalate       | 1.354 | 1.464 | -8.1  | 104   | 0.07     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.887 | 0.918 | -3.5  | 110   | 0.14     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 105   | 0.09     |
| 87   | Benzo(b)fluoranthene       | 1.316 | 1.247 | 5.2   | 94    | 0.08     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.137 | 1.237 | -8.8 | 124   | 0.08     |
| 89 C | Benzo(a)pyrene         | 1.139 | 1.136 | 0.3  | 105   | 0.09     |
| 90   | Dibenzo(a,h)anthracene | 0.920 | 0.905 | 1.6  | 109   | 0.13     |
| 91   | Benzo(g,h,i)perylene   | 0.930 | 0.900 | 3.2  | 108   | 0.15     |

(#) = Out of Range

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