

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF091815\  
 Data File : BF081694.D  
 Acq On : 18 Sep 2015 12:56  
 Operator : UM/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Sep 18 23:19:59 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 15 14:03:59 2015  
 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     | 118   | -0.04    |
| 2    | 1,4-Dioxane                 | 0.579 | 1.356 | -134.2# | 280#  | -0.03    |
| 3    | Pyridine                    | 1.596 | 1.477 | 7.5     | 95    | -0.03    |
| 4    | n-Nitrosodimethylamine      | 0.887 | 1.052 | -18.6   | 132   | -0.03    |
| 5 S  | 2-Fluorophenol              | 1.289 | 1.269 | 1.6     | 121   | -0.03    |
| 6    | Aniline                     | 2.410 | 2.380 | 1.2     | 117   | -0.03    |
| 7 S  | Phenol-d6                   | 1.706 | 1.752 | -2.7    | 119   | -0.03    |
| 8    | 2-Chlorophenol              | 1.420 | 1.450 | -2.1    | 121   | -0.04    |
| 9    | Benzaldehyde                | 1.069 | 0.922 | 13.8    | 101   | -0.03    |
| 10 C | Phenol                      | 1.979 | 1.861 | 6.0     | 101   | -0.03    |
| 11   | bis(2-Chloroethyl)ether     | 1.428 | 1.457 | -2.0    | 120   | -0.04    |
| 12   | 1,3-Dichlorobenzene         | 1.518 | 1.499 | 1.3     | 119   | -0.04    |
| 13 C | 1,4-Dichlorobenzene         | 1.545 | 1.549 | -0.3    | 119   | -0.04    |
| 14   | 1,2-Dichlorobenzene         | 1.391 | 1.451 | -4.3    | 125   | -0.03    |
| 15   | Benzyl Alcohol              | 1.400 | 1.477 | -5.5    | 117   | -0.03    |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.736 | 3.059 | -11.8   | 138   | -0.04    |
| 17   | 2-Methylphenol              | 1.133 | 1.179 | -4.1    | 121   | -0.03    |
| 18   | Hexachloroethane            | 0.601 | 0.641 | -6.7    | 126   | -0.04    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.161 | 1.295 | -11.5   | 138   | -0.02    |
| 20   | 3+4-Methylphenols           | 1.528 | 1.560 | -2.1    | 122   | -0.03    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0     | 128   | -0.04    |
| 22   | Acetophenone                | 0.546 | 0.537 | 1.6     | 122   | -0.03    |
| 23 S | Nitrobenzene-d5             | 0.415 | 0.432 | -4.1    | 130   | -0.03    |
| 24   | Nitrobenzene                | 0.430 | 0.457 | -6.3    | 129   | -0.03    |
| 25   | Isophorone                  | 0.771 | 0.805 | -4.4    | 135   | -0.03    |
| 26 C | 2-Nitrophenol               | 0.188 | 0.185 | 1.6     | 132   | -0.04    |
| 27   | 2,4-Dimethylphenol          | 0.324 | 0.318 | 1.9     | 112   | -0.04    |
| 28   | bis(2-Chloroethoxy)methane  | 0.445 | 0.454 | -2.0    | 116   | -0.03    |
| 29 C | 2,4-Dichlorophenol          | 0.281 | 0.285 | -1.4    | 125   | -0.03    |
| 30   | 1,2,4-Trichlorobenzene      | 0.305 | 0.316 | -3.6    | 126   | -0.04    |
| 31   | Naphthalene                 | 1.067 | 1.065 | 0.2     | 127   | -0.03    |
| 32   | Benzoic acid                | 0.221 | 0.172 | 22.2    | 90    | 0.00     |
| 33   | 4-Chloroaniline             | 0.435 | 0.448 | -3.0    | 115   | -0.03    |
| 34 C | Hexachlorobutadiene         | 0.186 | 0.204 | -9.7    | 145   | -0.04    |
| 35   | Caprolactam                 | 0.086 | 0.086 | 0.0     | 122   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.315 | 0.353 | -12.1   | 143   | -0.03    |
| 37   | 2-Methylnaphthalene         | 0.694 | 0.714 | -2.9    | 141   | -0.04    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0     | 132   | -0.04    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.633 | 0.634 | -0.2    | 129   | -0.04    |
| 40 P | Hexachlorocyclopentadiene   | 0.310 | 0.257 | 17.1    | 107   | -0.06    |
| 41 S | 2,4,6-Tribromophenol        | 0.178 | 0.188 | -5.6    | 133   | -0.04    |
| 42 C | 2,4,6-Trichlorophenol       | 0.437 | 0.442 | -1.1    | 136   | -0.04    |
| 43   | 2,4,5-Trichlorophenol       | 0.445 | 0.443 | 0.4     | 128   | -0.04    |
| 44 S | 2-Fluorobiphenyl            | 1.561 | 1.603 | -2.7    | 130   | -0.04    |

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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                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.840 | 1.783 | 3.1   | 142   | -0.04    |
| 46   | 2-Chloronaphthalene        | 1.329 | 1.326 | 0.2   | 123   | -0.04    |
| 47   | 2-Nitroaniline             | 0.542 | 0.582 | -7.4  | 137   | -0.04    |
| 48   | Acenaphthylene             | 2.357 | 2.335 | 0.9   | 143   | -0.06    |
| 49   | Dimethylphthalate          | 1.554 | 1.621 | -4.3  | 143   | -0.04    |
| 50   | 2,6-Dinitrotoluene         | 0.353 | 0.342 | 3.1   | 121   | -0.04    |
| 51 C | Acenaphthene               | 1.341 | 1.292 | 3.7   | 142   | -0.04    |
| 52   | 3-Nitroaniline             | 0.402 | 0.388 | 3.5   | 125   | -0.04    |
| 53 P | 2,4-Dinitrophenol          | 0.149 | 0.146 | 2.0   | 122   | -0.03    |
| 54   | Dibenzofuran               | 1.958 | 1.959 | -0.1  | 144   | -0.04    |
| 55 P | 4-Nitrophenol              | 0.252 | 0.228 | 9.5   | 102   | -0.03    |
| 56   | 2,4-Dinitrotoluene         | 0.449 | 0.463 | -3.1  | 135   | -0.03    |
| 57   | Fluorene                   | 1.486 | 1.586 | -6.7  | 133   | -0.04    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.340 | 0.345 | -1.5  | 139   | -0.04    |
| 59   | Diethylphthalate           | 1.635 | 1.782 | -9.0  | 143   | -0.04    |
| 60   | 4-Chlorophenyl-phenylether | 0.693 | 0.760 | -9.7  | 151#  | -0.04    |
| 61   | 4-Nitroaniline             | 0.406 | 0.369 | 9.1   | 128   | -0.03    |
| 62   | Azobenzene                 | 1.817 | 1.931 | -6.3  | 132   | -0.04    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 139   | -0.04    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.112 | 0.110 | 1.8   | 118   | -0.04    |
| 65 c | n-Nitrosodiphenylamine     | 0.728 | 0.681 | 6.5   | 130   | -0.04    |
| 66   | 4-Bromophenyl-phenylether  | 0.202 | 0.209 | -3.5  | 161#  | -0.04    |
| 67   | Hexachlorobenzene          | 0.211 | 0.211 | 0.0   | 148   | -0.06    |
| 68   | Atrazine                   | 0.211 | 0.201 | 4.7   | 136   | -0.04    |
| 69 C | Pentachlorophenol          | 0.082 | 0.081 | 1.2   | 136   | -0.04    |
| 70   | Phenanthrene               | 1.112 | 1.110 | 0.2   | 134   | -0.06    |
| 71   | Anthracene                 | 1.142 | 1.100 | 3.7   | 138   | -0.06    |
| 72   | Carbazole                  | 1.072 | 1.028 | 4.1   | 142   | -0.04    |
| 73   | Di-n-butylphthalate        | 1.266 | 1.418 | -12.0 | 165#  | -0.06    |
| 74 C | Fluoranthene               | 1.204 | 1.181 | 1.9   | 146   | -0.03    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 120   | -0.02    |
| 76   | Benzidine                  | 0.859 | 0.730 | 15.0  | 116   | -0.02    |
| 77   | Pyrene                     | 1.481 | 1.557 | -5.1  | 130   | -0.04    |
| 78 S | Terphenyl-d14              | 0.859 | 0.981 | -14.2 | 165#  | -0.03    |
| 79   | Butylbenzylphthalate       | 0.644 | 0.747 | -16.0 | 152#  | -0.03    |
| 80   | Benzo(a)anthracene         | 1.274 | 1.269 | 0.4   | 123   | -0.03    |
| 81   | 3,3'-Dichlorobenzidine     | 0.430 | 0.407 | 5.3   | 130   | -0.03    |
| 82   | Chrysene                   | 1.142 | 1.105 | 3.2   | 147   | -0.03    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.850 | 1.040 | -22.4 | 169#  | -0.03    |
| 84 c | Di-n-octyl phthalate       | 1.400 | 1.500 | -7.1  | 144   | -0.03    |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.838 | 0.839 | -0.1  | 132   | -0.04    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 123   | -0.02    |
| 87   | Benzo(b)fluoranthene       | 1.428 | 1.241 | 13.1  | 87    | -0.03    |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.185 | 1.350 | -13.9 | 169#  | -0.02    |
| 89 C | Benzo(a)pyrene         | 1.210 | 1.213 | -0.2  | 131   | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 0.935 | 1.016 | -8.7  | 133   | -0.04    |
| 91   | Benzo(g,h,i)perylene   | 0.892 | 0.929 | -4.1  | 131   | -0.04    |

(#) = Out of Range

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