

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF082915\  
 Data File : BF081269.D  
 Acq On : 29 Aug 2015 14:07  
 Operator : UM/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 31 01:17:22 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 31 01:11:18 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   | 114   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.627 | 0.657 | -4.8  | 116   | 0.00     |
| 3    | Pyridine                    | 1.769 | 1.675 | 5.3   | 96    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.985 | 1.042 | -5.8  | 118   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.330 | 1.287 | 3.2   | 114   | 0.00     |
| 6    | Aniline                     | 2.523 | 2.544 | -0.8  | 117   | 0.00     |
| 7 S  | Phenol-d6                   | 1.735 | 1.818 | -4.8  | 112   | 0.00     |
| 8    | 2-Chlorophenol              | 1.455 | 1.448 | 0.5   | 104   | 0.00     |
| 9    | Benzaldehyde                | 1.118 | 1.151 | -3.0  | 109   | 0.00     |
| 10 C | Phenol                      | 2.049 | 2.188 | -6.8  | 109   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.572 | 1.633 | -3.9  | 116   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.564 | 1.713 | -9.5  | 124   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.549 | 1.692 | -9.2  | 125   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.449 | 1.295 | 10.6  | 94    | 0.00     |
| 15   | Benzyl Alcohol              | 1.404 | 1.521 | -8.3  | 132   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.089 | 3.218 | -4.2  | 114   | 0.00     |
| 17   | 2-Methylphenol              | 1.249 | 1.275 | -2.1  | 112   | 0.00     |
| 18   | Hexachloroethane            | 0.626 | 0.657 | -5.0  | 115   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.202 | 1.256 | -4.5  | 111   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.585 | 1.552 | 2.1   | 112   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 123   | 0.00     |
| 22   | Acetophenone                | 0.525 | 0.554 | -5.5  | 121   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.438 | 0.412 | 5.9   | 116   | 0.00     |
| 24   | Nitrobenzene                | 0.458 | 0.508 | -10.9 | 129   | 0.00     |
| 25   | Isophorone                  | 0.816 | 0.860 | -5.4  | 128   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.190 | 0.178 | 6.3   | 119   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.337 | 0.306 | 9.2   | 101   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.482 | 0.488 | -1.2  | 124   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.284 | 0.305 | -7.4  | 125   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.315 | 0.312 | 1.0   | 115   | 0.00     |
| 31   | Naphthalene                 | 1.115 | 1.036 | 7.1   | 112   | 0.00     |
| 32   | Benzoic acid                | 0.189 | 0.229 | -21.2 | 172#  | 0.00     |
| 33   | 4-Chloroaniline             | 0.470 | 0.457 | 2.8   | 128   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.178 | 0.184 | -3.4  | 125   | 0.00     |
| 35   | Caprolactam                 | 0.099 | 0.098 | 1.0   | 116   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.338 | 0.359 | -6.2  | 128   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.704 | 0.676 | 4.0   | 113   | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 137   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.645 | 0.567 | 12.1  | 119   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.334 | 0.326 | 2.4   | 124   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.173 | 0.171 | 1.2   | 140   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.456 | 0.415 | 9.0   | 124   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.456 | 0.456 | 0.0   | 121   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.526 | 1.335 | 12.5  | 132   | 0.00     |

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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              | 1.762 | 1.464 | 16.9   | 102   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.415 | 1.290 | 8.8    | 127   | 0.00     |
| 47   | 2-Nitroaniline             | 0.579 | 0.527 | 9.0    | 121   | 0.00     |
| 48   | Acenaphthylene             | 2.532 | 2.324 | 8.2    | 133   | 0.00     |
| 49   | Dimethylphthalate          | 1.647 | 1.446 | 12.2   | 111   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.354 | 0.340 | 4.0    | 120   | 0.00     |
| 51 C | Acenaphthene               | 1.516 | 1.321 | 12.9   | 121   | 0.00     |
| 52   | 3-Nitroaniline             | 0.443 | 0.359 | 19.0   | 113   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.167 | 0.215 | -28.7# | 168#  | 0.00     |
| 54   | Dibenzofuran               | 2.031 | 1.824 | 10.2   | 130   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.311 | 0.322 | -3.5   | 148   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.469 | 0.436 | 7.0    | 123   | 0.00     |
| 57   | Fluorene                   | 1.562 | 1.282 | 17.9   | 118   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.353 | 0.334 | 5.4    | 117   | 0.00     |
| 59   | Diethylphthalate           | 1.743 | 1.735 | 0.5    | 131   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.661 | 0.594 | 10.1   | 120   | 0.00     |
| 61   | 4-Nitroaniline             | 0.452 | 0.407 | 10.0   | 125   | 0.00     |
| 62   | Azobenzene                 | 2.009 | 1.707 | 15.0   | 107   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 130   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.119 | 0.132 | -10.9  | 129   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.714 | 0.629 | 11.9   | 110   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.196 | 0.213 | -8.7   | 144   | 0.00     |
| 67   | Hexachlorobenzene          | 0.199 | 0.212 | -6.5   | 128   | 0.00     |
| 68   | Atrazine                   | 0.199 | 0.180 | 9.5    | 118   | 0.00     |
| 69 C | Pentachlorophenol          | 0.119 | 0.124 | -4.2   | 133   | 0.00     |
| 70   | Phenanthrene               | 1.185 | 1.029 | 13.2   | 115   | 0.00     |
| 71   | Anthracene                 | 1.153 | 1.154 | -0.1   | 126   | 0.00     |
| 72   | Carbazole                  | 1.110 | 1.105 | 0.5    | 115   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.344 | 1.359 | -1.1   | 126   | 0.00     |
| 74 C | Fluoranthene               | 1.279 | 1.138 | 11.0   | 111   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 139   | 0.00     |
| 76   | Benzidine                  | 0.756 | 0.806 | -6.6   | 120   | 0.00     |
| 77   | Pyrene                     | 1.626 | 1.530 | 5.9    | 138   | 0.00     |
| 78 S | Terphenyl-d14              | 0.933 | 0.910 | 2.5    | 129   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.699 | 0.749 | -7.2   | 134   | 0.00     |
| 80   | Benzo(a)anthracene         | 1.341 | 1.263 | 5.8    | 123   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.434 | 0.393 | 9.4    | 125   | 0.00     |
| 82   | Chrysene                   | 1.209 | 0.969 | 19.9   | 103   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.895 | 0.960 | -7.3   | 142   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.361 | 1.710 | -25.6# | 162#  | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.849 | 0.977 | -15.1  | 152#  | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 152#  | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.415 | 1.470 | -3.9   | 144   | -0.02    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.318 | 1.044 | 20.8 | 131   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.233 | 1.182 | 4.1  | 144   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.960 | 0.998 | -4.0 | 153#  | 0.00     |
| 91   | Benzo(g,h,i)perylene   | 0.974 | 0.956 | 1.8  | 147   | 0.00     |

(#) = Out of Range

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