

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG050815\  
 Data File : BG017028.D  
 Acq On : 10 May 2015 16:03  
 Operator : TP/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 11 01:33:04 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG050515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 05 16:13:58 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    | 110   | -0.02    |
| 2    | 1,4-Dioxane                 | 0.481 | 0.394 | 18.1   | 96    | -0.01    |
| 3    | Pyridine                    | 1.488 | 1.288 | 13.4   | 97    | -0.02    |
| 4    | n-Nitrosodimethylamine      | 0.888 | 0.931 | -4.8   | 124   | -0.01    |
| 5 S  | 2-Fluorophenol              | 1.149 | 1.097 | 4.5    | 110   | 0.00     |
| 6    | Aniline                     | 2.304 | 2.237 | 2.9    | 112   | -0.01    |
| 7 S  | Phenol-d6                   | 1.641 | 1.674 | -2.0   | 118   | 0.00     |
| 8    | 2-Chlorophenol              | 1.331 | 1.347 | -1.2   | 118   | -0.01    |
| 9    | Benzaldehyde                | 1.144 | 1.076 | 5.9    | 105   | -0.01    |
| 10 C | Phenol                      | 1.760 | 1.786 | -1.5   | 118   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.361 | 1.288 | 5.4    | 108   | -0.02    |
| 12   | 1,3-Dichlorobenzene         | 1.467 | 1.407 | 4.1    | 113   | -0.01    |
| 13 C | 1,4-Dichlorobenzene         | 1.486 | 1.462 | 1.6    | 113   | -0.02    |
| 14   | 1,2-Dichlorobenzene         | 1.426 | 1.360 | 4.6    | 110   | -0.02    |
| 15   | Benzyl Alcohol              | 1.499 | 1.493 | 0.4    | 115   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.519 | 2.173 | 13.7   | 102   | -0.02    |
| 17   | 2-Methylphenol              | 1.239 | 1.231 | 0.6    | 115   | 0.00     |
| 18   | Hexachloroethane            | 0.611 | 0.592 | 3.1    | 112   | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.439 | 1.388 | 3.5    | 113   | -0.01    |
| 20   | 3+4-Methylphenols           | 1.708 | 1.790 | -4.8   | 121   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 117   | -0.01    |
| 22   | Acetophenone                | 0.476 | 0.444 | 6.7    | 116   | -0.02    |
| 23 S | Nitrobenzene-d5             | 0.409 | 0.400 | 2.2    | 124   | -0.01    |
| 24   | Nitrobenzene                | 0.413 | 0.392 | 5.1    | 119   | -0.01    |
| 25   | Isophorone                  | 0.827 | 0.746 | 9.8    | 114   | -0.01    |
| 26 C | 2-Nitrophenol               | 0.168 | 0.181 | -7.7   | 134   | -0.01    |
| 27   | 2,4-Dimethylphenol          | 0.305 | 0.292 | 4.3    | 118   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.417 | 0.371 | 11.0   | 115   | -0.02    |
| 29 C | 2,4-Dichlorophenol          | 0.288 | 0.286 | 0.7    | 124   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.305 | 0.288 | 5.6    | 118   | -0.02    |
| 31   | Naphthalene                 | 0.995 | 0.912 | 8.3    | 117   | -0.02    |
| 32   | Benzoic acid                | 0.179 | 0.233 | -30.2# | 166#  | 0.03     |
| 33   | 4-Chloroaniline             | 0.459 | 0.440 | 4.1    | 119   | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.191 | 0.175 | 8.4    | 117   | -0.03    |
| 35   | Caprolactam                 | 0.150 | 0.141 | 6.0    | 118   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.369 | 0.367 | 0.5    | 125   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.758 | 0.702 | 7.4    | 119   | -0.02    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 123   | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.541 | 0.514 | 5.0    | 122   | -0.01    |
| 40 P | Hexachlorocyclopentadiene   | 0.349 | 0.269 | 22.9   | 100   | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 0.201 | 0.212 | -5.5   | 137   | -0.01    |
| 42 C | 2,4,6-Trichlorophenol       | 0.383 | 0.376 | 1.8    | 121   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.407 | 0.392 | 3.7    | 122   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.325 | 1.224 | 7.6    | 119   | -0.02    |

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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              | 1.432 | 1.329 | 7.2   | 119   | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.134 | 1.075 | 5.2   | 122   | -0.01    |
| 47   | 2-Nitroaniline             | 0.395 | 0.442 | -11.9 | 141   | 0.00     |
| 48   | Acenaphthylene             | 1.975 | 1.821 | 7.8   | 118   | -0.02    |
| 49   | Dimethylphthalate          | 1.493 | 1.389 | 7.0   | 120   | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 0.310 | 0.331 | -6.8  | 132   | -0.01    |
| 51 C | Acenaphthene               | 1.175 | 1.075 | 8.5   | 118   | -0.02    |
| 52   | 3-Nitroaniline             | 0.353 | 0.367 | -4.0  | 128   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.142 | 0.140 | 1.4   | 134   | 0.00     |
| 54   | Dibenzofuran               | 1.669 | 1.578 | 5.5   | 120   | -0.02    |
| 55 P | 4-Nitrophenol              | 0.299 | 0.286 | 4.3   | 122   | 0.03     |
| 56   | 2,4-Dinitrotoluene         | 0.397 | 0.453 | -14.1 | 143   | 0.00     |
| 57   | Fluorene                   | 1.478 | 1.380 | 6.6   | 120   | -0.01    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.351 | 0.340 | 3.1   | 120   | 0.00     |
| 59   | Diethylphthalate           | 1.577 | 1.452 | 7.9   | 119   | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 0.742 | 0.701 | 5.5   | 124   | -0.02    |
| 61   | 4-Nitroaniline             | 0.409 | 0.406 | 0.7   | 126   | 0.00     |
| 62   | Azobenzene                 | 1.633 | 1.521 | 6.9   | 121   | -0.02    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 121   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.099 | 0.118 | -19.2 | 154#  | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.611 | 0.575 | 5.9   | 122   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.201 | 0.191 | 5.0   | 123   | -0.02    |
| 67   | Hexachlorobenzene          | 0.212 | 0.209 | 1.4   | 129   | -0.01    |
| 68   | Atrazine                   | 0.220 | 0.199 | 9.5   | 114   | -0.01    |
| 69 C | Pentachlorophenol          | 0.137 | 0.128 | 6.6   | 116   | 0.00     |
| 70   | Phenanthrene               | 1.029 | 0.941 | 8.6   | 117   | -0.01    |
| 71   | Anthracene                 | 1.038 | 0.938 | 9.6   | 116   | -0.01    |
| 72   | Carbazole                  | 0.987 | 0.871 | 11.8  | 112   | -0.01    |
| 73   | Di-n-butylphthalate        | 1.280 | 1.160 | 9.4   | 115   | -0.03    |
| 74 C | Fluoranthene               | 1.194 | 1.061 | 11.1  | 112   | -0.02    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 110   | -0.02    |
| 76   | Benzidine                  | 0.680 | 0.568 | 16.5  | 94    | -0.02    |
| 77   | Pyrene                     | 1.180 | 1.104 | 6.4   | 111   | -0.02    |
| 78 S | Terphenyl-d14              | 0.853 | 0.832 | 2.5   | 113   | -0.02    |
| 79   | Butylbenzylphthalate       | 0.561 | 0.536 | 4.5   | 112   | -0.03    |
| 80   | Benzo(a)anthracene         | 1.073 | 1.019 | 5.0   | 111   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 0.419 | 0.402 | 4.1   | 111   | -0.02    |
| 82   | Chrysene                   | 1.005 | 0.966 | 3.9   | 112   | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.767 | 0.723 | 5.7   | 109   | -0.03    |
| 84 c | Di-n-octyl phthalate       | 1.289 | 1.203 | 6.7   | 107   | -0.04    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.198 | 1.175 | 1.9   | 119   | -0.04    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 112   | -0.03    |
| 87   | Benzo(b)fluoranthene       | 1.114 | 1.040 | 6.6   | 111   | -0.03    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.072 | 1.054 | 1.7  | 118   | -0.03    |
| 89 C | Benzo(a)pyrene         | 1.039 | 0.986 | 5.1  | 113   | -0.03    |
| 90   | Dibenzo(a,h)anthracene | 1.061 | 1.018 | 4.1  | 117   | -0.05    |
| 91   | Benzo(g,h,i)perylene   | 1.011 | 0.940 | 7.0  | 115   | -0.04    |

(#) = Out of Range

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