

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG103116\  
 Data File : BG024573.D  
 Acq On : 1 Nov 2016 1:51  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 01 12:01:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG102516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 01 11:50:40 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 153#  | 0.00     |
| 2    | 1,4-Dioxane                 | 0.499 | 0.503 | -0.8 | 161#  | 0.00     |
| 3    | Pyridine                    | 1.493 | 1.421 | 4.8  | 151#  | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.773 | 0.714 | 7.6  | 143   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.220 | 1.213 | 0.6  | 160#  | 0.00     |
| 6    | Aniline                     | 2.121 | 2.146 | -1.2 | 158#  | 0.00     |
| 7 S  | Phenol-d6                   | 1.674 | 1.734 | -3.6 | 163#  | 0.00     |
| 8    | 2-Chlorophenol              | 1.241 | 1.240 | 0.1  | 162#  | 0.00     |
| 9    | Benzaldehyde                | 1.034 | 1.019 | 1.5  | 156#  | 0.00     |
| 10 C | Phenol                      | 1.725 | 1.770 | -2.6 | 163#  | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.296 | 1.345 | -3.8 | 168#  | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.536 | 1.523 | 0.8  | 162#  | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.517 | 1.531 | -0.9 | 162#  | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.459 | 1.458 | 0.1  | 161#  | 0.00     |
| 15   | Benzyl Alcohol              | 1.557 | 1.540 | 1.1  | 156#  | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.405 | 2.296 | 4.5  | 152#  | 0.00     |
| 17   | 2-Methylphenol              | 1.143 | 1.157 | -1.2 | 162#  | 0.00     |
| 18   | Hexachloroethane            | 0.583 | 0.575 | 1.4  | 164#  | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.234 | 1.191 | 3.5  | 149   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.535 | 1.579 | -2.9 | 159#  | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 150#  | 0.00     |
| 22   | Acetophenone                | 0.514 | 0.501 | 2.5  | 155#  | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.439 | 0.442 | -0.7 | 161#  | 0.00     |
| 24   | Nitrobenzene                | 0.489 | 0.485 | 0.8  | 157#  | 0.00     |
| 25   | Isophorone                  | 0.817 | 0.785 | 3.9  | 150   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.181 | 0.197 | -8.8 | 173#  | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.318 | 0.329 | -3.5 | 160#  | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.423 | 0.421 | 0.5  | 162#  | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.333 | 0.343 | -3.0 | 161#  | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.395 | 0.391 | 1.0  | 159#  | 0.00     |
| 31   | Naphthalene                 | 0.998 | 0.969 | 2.9  | 154#  | 0.00     |
| 32   | Benzoic acid                | 0.264 | 0.238 | 9.8  | 143   | 0.02     |
| 33   | 4-Chloroaniline             | 0.433 | 0.436 | -0.7 | 152#  | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.309 | 0.311 | -0.6 | 166#  | 0.00     |
| 35   | Caprolactam                 | 0.122 | 0.116 | 4.9  | 147   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.402 | 0.399 | 0.7  | 152#  | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.728 | 0.718 | 1.4  | 157#  | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 137   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.675 | 0.695 | -3.0 | 155#  | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.380 | 0.376 | 1.1  | 144   | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.299 | 0.316 | -5.7 | 145   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.405 | 0.439 | -8.4 | 160#  | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.438 | 0.459 | -4.8 | 152#  | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.203 | 1.195 | 0.7  | 147   | 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              | 1.388 | 1.390 | -0.1 | 148   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.057 | 1.082 | -2.4 | 152#  | 0.00     |
| 47   | 2-Nitroaniline             | 0.433 | 0.450 | -3.9 | 141   | 0.00     |
| 48   | Acenaphthylene             | 1.621 | 1.637 | -1.0 | 145   | 0.00     |
| 49   | Dimethylphthalate          | 1.420 | 1.421 | -0.1 | 141   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.303 | 0.328 | -8.3 | 147   | 0.00     |
| 51 C | Acenaphthene               | 1.208 | 1.120 | 7.3  | 134   | 0.00     |
| 52   | 3-Nitroaniline             | 0.314 | 0.327 | -4.1 | 145   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.220 | 0.238 | -8.2 | 145   | 0.00     |
| 54   | Dibenzofuran               | 1.670 | 1.652 | 1.1  | 142   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.273 | 0.262 | 4.0  | 134   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.440 | 0.471 | -7.0 | 142   | 0.00     |
| 57   | Fluorene                   | 1.385 | 1.367 | 1.3  | 139   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.454 | 0.467 | -2.9 | 142   | 0.00     |
| 59   | Diethylphthalate           | 1.489 | 1.435 | 3.6  | 135   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.777 | 0.785 | -1.0 | 147   | 0.00     |
| 61   | 4-Nitroaniline             | 0.343 | 0.355 | -3.5 | 144   | 0.00     |
| 62   | Azobenzene                 | 1.485 | 1.402 | 5.6  | 133   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 127   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.138 | 0.136 | 1.4  | 131   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.547 | 0.557 | -1.8 | 139   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.243 | 0.252 | -3.7 | 143   | 0.00     |
| 67   | Hexachlorobenzene          | 0.268 | 0.279 | -4.1 | 140   | 0.00     |
| 68   | Atrazine                   | 0.235 | 0.224 | 4.7  | 127   | 0.00     |
| 69 C | Pentachlorophenol          | 0.177 | 0.167 | 5.6  | 122   | 0.00     |
| 70   | Phenanthrene               | 1.019 | 0.994 | 2.5  | 134   | 0.00     |
| 71   | Anthracene                 | 1.028 | 1.003 | 2.4  | 133   | 0.00     |
| 72   | Carbazole                  | 0.938 | 0.903 | 3.7  | 133   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.081 | 1.036 | 4.2  | 130   | 0.00     |
| 74 C | Fluoranthene               | 1.289 | 1.239 | 3.9  | 128   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 128   | 0.00     |
| 76   | Benzidine                  | 0.471 | 0.487 | -3.4 | 139   | 0.00     |
| 77   | Pyrene                     | 0.978 | 0.950 | 2.9  | 128   | 0.00     |
| 78 S | Terphenyl-d14              | 0.669 | 0.600 | 10.3 | 122   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.408 | 0.407 | 0.2  | 135   | 0.00     |
| 80   | Benzo(a)anthracene         | 1.099 | 1.057 | 3.8  | 133   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.443 | 0.428 | 3.4  | 131   | 0.00     |
| 82   | Chrysene                   | 1.046 | 1.007 | 3.7  | 131   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.583 | 0.566 | 2.9  | 132   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 0.968 | 0.971 | -0.3 | 135   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.444 | 1.429 | 1.0  | 140   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0  | 130   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.081 | 1.054 | 2.5  | 137   | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.044 | 0.996 | 4.6  | 132   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.056 | 1.029 | 2.6  | 135   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 1.159 | 1.104 | 4.7  | 138   | 0.00     |
| 91   | Benzo(g,h,i)perylene   | 1.158 | 1.092 | 5.7  | 138   | 0.00     |

(#) = Out of Range

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