

Data Path : Z:\HPCHEM1\BNA G\Data\BG031318\  
 Data File : BG03131.D  
 Acq On : 14 Mar 2018 1:33  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 14 04:19:15 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 09 15:10:14 2018  
 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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 88    | 0.02     |
| 2    | 1,4-Dioxane                 | 0.543 | 0.459 | 15.5   | 75    | 0.02     |
| 3    | Pyridine                    | 1.495 | 1.392 | 6.9    | 79    | 0.02     |
| 4    | n-Nitrosodimethylamine      | 0.600 | 0.684 | -14.0  | 98    | 0.01     |
| 5 S  | 2-Fluorophenol              | 1.250 | 1.230 | 1.6    | 84    | 0.01     |
| 6    | Aniline                     | 2.359 | 2.083 | 11.7   | 77    | 0.01     |
| 7 S  | Phenol-d6                   | 1.742 | 1.645 | 5.6    | 82    | 0.00     |
| 8    | 2-Chlorophenol              | 1.368 | 1.332 | 2.6    | 84    | 0.02     |
| 9    | Benzaldehyde                | 1.004 | 1.012 | -0.8   | 91    | 0.01     |
| 10 C | Phenol                      | 1.757 | 1.692 | 3.7    | 84    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.436 | 1.240 | 13.6   | 76    | 0.01     |
| 12   | 1,3-Dichlorobenzene         | 1.603 | 1.444 | 9.9    | 79    | 0.02     |
| 13 C | 1,4-Dichlorobenzene         | 1.613 | 1.458 | 9.6    | 79    | 0.02     |
| 14   | 1,2-Dichlorobenzene         | 1.546 | 1.388 | 10.2   | 79    | 0.02     |
| 15   | Benzyl Alcohol              | 1.281 | 1.281 | 0.0    | 88    | 0.02     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.469 | 2.499 | -1.2   | 89    | 0.01     |
| 17   | 2-Methylphenol              | 1.295 | 1.227 | 5.3    | 82    | 0.01     |
| 18   | Hexachloroethane            | 0.549 | 0.521 | 5.1    | 83    | 0.01     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.230 | 1.140 | 7.3    | 82    | 0.01     |
| 20   | 3+4-Methylphenols           | 1.801 | 1.726 | 4.2    | 84    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 88    | 0.01     |
| 22   | Acetophenone                | 0.505 | 0.470 | 6.9    | 82    | 0.01     |
| 23 S | Nitrobenzene-d5             | 0.242 | 0.337 | -39.3# | 114   | 0.01     |
| 24   | Nitrobenzene                | 0.289 | 0.351 | -21.5  | 104   | 0.02     |
| 25   | Isophorone                  | 0.702 | 0.646 | 8.0    | 82    | 0.01     |
| 26 C | 2-Nitrophenol               | 0.103 | 0.168 | -63.1# | 152#  | 0.01     |
| 27   | 2,4-Dimethylphenol          | 0.305 | 0.278 | 8.9    | 82    | 0.01     |
| 28   | bis(2-Chloroethoxy)methane  | 0.409 | 0.352 | 13.9   | 76    | 0.02     |
| 29 C | 2,4-Dichlorophenol          | 0.277 | 0.276 | 0.4    | 88    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.324 | 0.297 | 8.3    | 81    | 0.02     |
| 31   | Naphthalene                 | 1.045 | 0.941 | 10.0   | 80    | 0.01     |
| 32   | Benzoic acid                | 0.174 | 0.027 | 84.5#  | 15#   | 0.00     |
| 33   | 4-Chloroaniline             | 0.467 | 0.408 | 12.6   | 78    | 0.01     |
| 34 C | Hexachlorobutadiene         | 0.182 | 0.179 | 1.6    | 86    | 0.01     |
| 35   | Caprolactam                 | 0.111 | 0.081 | 27.0#  | 63    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.322 | 0.326 | -1.2   | 88    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.756 | 0.675 | 10.7   | 79    | 0.01     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 90    | 0.01     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.594 | 0.565 | 4.9    | 86    | 0.01     |
| 40 P | Hexachlorocyclopentadiene   | 0.303 | 0.177 | 41.6#  | 52    | 0.01     |
| 41 S | 2,4,6-Tribromophenol        | 0.210 | 0.202 | 3.8    | 85    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.374 | 0.361 | 3.5    | 86    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.433 | 0.451 | -4.2   | 93    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.387 | 1.278 | 7.9    | 83    | 0.01     |

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

|      | Compound                   | AvqRF | CCRF   | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.748 | 1.581  | 9.6    | 82    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.306 | 1.174  | 10.1   | 81    | 0.01     |
| 47   | 2-Nitroaniline             | 0.282 | 0.438  | -55.3# | 140   | 0.00     |
| 48   | Acenaphthylene             | 2.137 | 1.949  | 8.8    | 82    | 0.01     |
| 49   | Dimethylphthalate          | 1.698 | 1.525  | 10.2   | 81    | 0.01     |
| 50   | 2,6-Dinitrotoluene         | 0.244 | 0.332  | -36.1# | 121   | 0.00     |
| 51 C | Acenaphthene               | 1.331 | 1.176  | 11.6   | 79    | 0.01     |
| 52   | 3-Nitroaniline             | 0.308 | 0.377  | -22.4  | 109   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.070 | 0.015# | 78.6#  | 21#   | 0.01     |
| 54   | Dibenzofuran               | 1.895 | 1.734  | 8.5    | 83    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.233 | 0.195  | 16.3   | 74    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.293 | 0.471  | -60.8# | 150#  | 0.00     |
| 57   | Fluorene                   | 1.564 | 1.424  | 9.0    | 83    | 0.01     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.336 | 0.228  | 32.1#  | 60    | 0.00     |
| 59   | Diethylphthalate           | 1.791 | 1.662  | 7.2    | 84    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.765 | 0.718  | 6.1    | 85    | 0.00     |
| 61   | 4-Nitroaniline             | 0.336 | 0.373  | -11.0  | 97    | 0.00     |
| 62   | Azobenzene                 | 1.602 | 1.475  | 7.9    | 83    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0    | 93    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.054 | 0.021  | 61.1#  | 37#   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.651 | 0.580  | 10.9   | 82    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.211 | 0.197  | 6.6    | 88    | 0.00     |
| 67   | Hexachlorobenzene          | 0.229 | 0.216  | 5.7    | 89    | 0.00     |
| 68   | Atrazine                   | 0.214 | 0.184  | 14.0   | 79    | 0.00     |
| 69 C | Pentachlorophenol          | 0.144 | 0.075  | 47.9#  | 48#   | 0.01     |
| 70   | Phenanthrene               | 1.116 | 0.993  | 11.0   | 83    | 0.00     |
| 71   | Anthracene                 | 1.120 | 1.005  | 10.3   | 83    | 0.00     |
| 72   | Carbazole                  | 1.104 | 0.965  | 12.6   | 81    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.355 | 1.232  | 9.1    | 83    | 0.00     |
| 74 C | Fluoranthene               | 1.233 | 1.114  | 9.7    | 84    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0    | 97    | 0.00     |
| 76   | Benzidine                  | 0.682 | 0.446  | 34.6#  | 65    | 0.00     |
| 77   | Pyrene                     | 1.410 | 1.213  | 14.0   | 84    | 0.00     |
| 78 S | Terphenyl-d14              | 0.890 | 0.796  | 10.6   | 88    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.625 | 0.535  | 14.4   | 80    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.283 | 1.153  | 10.1   | 88    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.475 | 0.398  | 16.2   | 79    | 0.00     |
| 82   | Chrysene                   | 1.225 | 1.110  | 9.4    | 88    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.926 | 0.867  | 6.4    | 86    | 0.01     |
| 84 c | Di-n-octyl phthalate       | 1.411 | 1.213  | 14.0   | 77    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.429 | 1.189  | 16.8   | 79    | 0.02     |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0    | 100   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.183 | 1.028  | 13.1   | 85    | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.175 | 1.073 | 8.7  | 92    | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.125 | 0.999 | 11.2 | 88    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 1.132 | 0.924 | 18.4 | 80    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 1.116 | 0.902 | 19.2 | 80    | -0.01    |

(#) = Out of Range

SPCC's out = 1 CCC's out = 2