

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG050118\  
 Data File : BG034117.D  
 Acq On : 2 May 2018 15:39  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc : LOQ 20PPM  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: May 02 16:18:18 2018  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG050118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 01 19:08:03 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 168#  | 0.00     |
| 2    | 1,4-Dioxane                 | 0.520 | 0.446 | 14.2 | 159#  | 0.00     |
| 3    | Pyridine                    | 1.631 | 1.529 | 6.3  | 153#  | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.889 | 0.808 | 9.1  | 151#  | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.238 | 1.132 | 8.6  | 159#  | 0.00     |
| 6    | Aniline                     | 2.621 | 2.295 | 12.4 | 149   | 0.00     |
| 7 S  | Phenol-d6                   | 1.927 | 1.696 | 12.0 | 152#  | 0.00     |
| 8    | 2-Chlorophenol              | 1.235 | 1.065 | 13.8 | 147   | 0.00     |
| 9    | Benzaldehyde                | 1.043 | 0.952 | 8.7  | 154#  | 0.00     |
| 10 C | Phenol                      | 1.944 | 1.699 | 12.6 | 147   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.530 | 1.359 | 11.2 | 153#  | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.563 | 1.402 | 10.3 | 154#  | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.552 | 1.368 | 11.9 | 153#  | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.474 | 1.308 | 11.3 | 152#  | 0.00     |
| 15   | Benzyl Alcohol              | 2.056 | 1.778 | 13.5 | 144   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.105 | 1.760 | 16.4 | 142   | 0.00     |
| 17   | 2-Methylphenol              | 1.279 | 1.121 | 12.4 | 146   | 0.00     |
| 18   | Hexachloroethane            | 0.660 | 0.549 | 16.8 | 143   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.731 | 1.411 | 18.5 | 137   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.894 | 1.578 | 16.7 | 142   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 152#  | 0.00     |
| 22   | Acetophenone                | 0.681 | 0.636 | 6.6  | 146   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.521 | 0.502 | 3.6  | 145   | 0.00     |
| 24   | Nitrobenzene                | 0.571 | 0.544 | 4.7  | 144   | 0.00     |
| 25   | Isophorone                  | 1.063 | 0.958 | 9.9  | 138   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.158 | 0.166 | -5.1 | 153#  | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.306 | 0.287 | 6.2  | 140   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.522 | 0.472 | 9.6  | 138   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.366 | 0.336 | 8.2  | 141   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.441 | 0.431 | 2.3  | 154#  | 0.00     |
| 31   | Naphthalene                 | 1.051 | 0.979 | 6.9  | 143   | 0.00     |
| 32   | Benzoic acid                | 0.257 | 0.261 | -1.6 | 136   | 0.00     |
| 33   | 4-Chloroaniline             | 0.474 | 0.434 | 8.4  | 138   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.373 | 0.352 | 5.6  | 147   | 0.00     |
| 35   | Caprolactam                 | 0.130 | 0.122 | 6.2  | 148   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.475 | 0.434 | 8.6  | 138   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.852 | 0.773 | 9.3  | 142   | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 150   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.774 | 0.742 | 4.1  | 144   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.459 | 0.478 | -4.1 | 156#  | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.277 | 0.255 | 7.9  | 135   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.450 | 0.428 | 4.9  | 142   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.497 | 0.483 | 2.8  | 144   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.373 | 1.241 | 9.6  | 135   | 0.00     |

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

|      | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.562 | 1.444 | 7.6   | 140   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.183 | 1.099 | 7.1   | 139   | 0.00     |
| 47   | 2-Nitroaniline             | 0.473 | 0.474 | -0.2  | 143   | 0.00     |
| 48   | Acenaphthylene             | 1.889 | 1.700 | 10.0  | 133   | 0.00     |
| 49   | Dimethylphthalate          | 1.734 | 1.509 | 13.0  | 131   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.333 | 0.328 | 1.5   | 135   | 0.00     |
| 51 C | Acenaphthene               | 1.284 | 1.189 | 7.4   | 137   | 0.00     |
| 52   | 3-Nitroaniline             | 0.336 | 0.317 | 5.7   | 138   | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.130 | 0.149 | -14.6 | 165#  | 0.00     |
| 54   | Dibenzofuran               | 1.861 | 1.646 | 11.6  | 133   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.256 | 0.244 | 4.7   | 140   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.452 | 0.471 | -4.2  | 142   | 0.00     |
| 57   | Fluorene                   | 1.622 | 1.408 | 13.2  | 131   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.514 | 0.482 | 6.2   | 136   | 0.00     |
| 59   | Diethylphthalate           | 1.835 | 1.589 | 13.4  | 128   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.965 | 0.876 | 9.2   | 136   | 0.00     |
| 61   | 4-Nitroaniline             | 0.356 | 0.330 | 7.3   | 137   | 0.00     |
| 62   | Azobenzene                 | 1.983 | 1.703 | 14.1  | 129   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 151#  | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.094 | 0.102 | -8.5  | 163#  | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.545 | 0.486 | 10.8  | 130   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.248 | 0.223 | 10.1  | 132   | 0.00     |
| 67   | Hexachlorobenzene          | 0.252 | 0.227 | 9.9   | 135   | 0.00     |
| 68   | Atrazine                   | 0.223 | 0.207 | 7.2   | 133   | 0.00     |
| 69 C | Pentachlorophenol          | 0.176 | 0.166 | 5.7   | 132   | 0.00     |
| 70   | Phenanthrene               | 1.028 | 0.897 | 12.7  | 131   | 0.00     |
| 71   | Anthracene                 | 1.042 | 0.906 | 13.1  | 131   | 0.00     |
| 72   | Carbazole                  | 0.953 | 0.823 | 13.6  | 130   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.148 | 0.993 | 13.5  | 130   | 0.00     |
| 74 C | Fluoranthene               | 1.299 | 1.131 | 12.9  | 132   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 153#  | 0.00     |
| 76   | Benzidine                  | 0.515 | 0.535 | -3.9  | 157#  | 0.00     |
| 77   | Pyrene                     | 1.253 | 1.105 | 11.8  | 131   | 0.00     |
| 78 S | Terphenyl-d14              | 0.913 | 0.791 | 13.4  | 132   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.489 | 0.454 | 7.2   | 137   | -0.02    |
| 80   | Benzo(a)anthracene         | 1.282 | 1.168 | 8.9   | 138   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.485 | 0.467 | 3.7   | 142   | 0.00     |
| 82   | Chrysene                   | 1.227 | 1.121 | 8.6   | 140   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.673 | 0.606 | 10.0  | 133   | -0.02    |
| 84 c | Di-n-octyl phthalate       | 1.075 | 0.983 | 8.6   | 135   | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.350 | 1.286 | 4.7   | 140   | -0.03    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 158#  | -0.02    |
| 87   | Benzo(b)fluoranthene       | 1.263 | 1.123 | 11.1  | 140   | -0.02    |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.207 | 1.067 | 11.6 | 141   | -0.02    |
| 89 C | Benzo(a)pyrene         | 1.182 | 1.058 | 10.5 | 140   | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 1.114 | 0.979 | 12.1 | 139   | -0.03    |
| 91   | Benzo(g,h,i)perylene   | 1.098 | 0.986 | 10.2 | 141   | -0.04    |

(#) = Out of Range

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