

Data Path : Z:\HPCHEM1\BNA M\Data\BM082517\  
 Data File : BM011346.D  
 Acq On : 25 Aug 2017 16:33  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 25 23:27:50 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM072617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 16 02:25:04 2017  
 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                     | Amount | Calc.   | %Dev   | Area% | Dev(min) |
|------|------------------------------|--------|---------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000  | 0.0    | 36    | -0.02    |
| 2    | 1,4-Dioxane                  | 40.000 | 50.528  | -26.3# | 48    | -0.02    |
| 3    | Pyridine                     | 40.000 | 51.409  | -28.5# | 46    | -0.02    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 61.573  | -53.9# | 56    | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 81.323  | -1.7   | 38    | -0.02    |
| 6    | Aniline                      | 40.000 | 46.135  | -15.3  | 42    | -0.03    |
| 7 S  | Phenol-d6                    | 80.000 | 89.648  | -12.1  | 40    | -0.02    |
| 8    | 2-Chlorophenol               | 40.000 | 39.510  | 1.2    | 36    | -0.02    |
| 9    | Benzaldehyde                 | 40.000 | 48.270  | -20.7  | 46    | -0.02    |
| 10 C | Phenol                       | 40.000 | 45.643  | -14.1  | 41    | -0.02    |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 43.709  | -9.3   | 40    | -0.02    |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 37.811  | 5.5    | 35    | -0.03    |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 39.814  | 0.5    | 36    | -0.02    |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 39.609  | 1.0    | 37    | -0.03    |
| 15   | Benzyl Alcohol               | 40.000 | 50.704  | -26.8# | 46    | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 53.608  | -34.0# | 50    | -0.03    |
| 17   | 2-Methylphenol               | 40.000 | 43.810  | -9.5   | 40    | -0.02    |
| 18   | Hexachloroethane             | 40.000 | 45.899  | -14.7  | 42    | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 57.326  | -43.3# | 52    | -0.02    |
| 20   | 3+4-Methylphenols            | 40.000 | 42.979  | -7.4   | 39    | -0.03    |
| 21 I | Naphthalene-d8               | 20.000 | 20.000  | 0.0    | 35    | -0.03    |
| 22   | Acetophenone                 | 40.000 | 43.765  | -9.4   | 40    | -0.03    |
| 23 S | Nitrobenzene-d5              | 80.000 | 110.815 | -38.5# | 50    | -0.03    |
| 24   | Nitrobenzene                 | 40.000 | 55.706  | -39.3# | 51    | -0.03    |
| 25   | Isophorone                   | 40.000 | 52.154  | -30.4# | 48    | -0.03    |
| 26 C | 2-Nitrophenol                | 40.000 | 41.188  | -3.0   | 36    | -0.03    |
| 27   | 2,4-Dimethylphenol           | 40.000 | 41.242  | -3.1   | 37    | -0.02    |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 46.595  | -16.5  | 42    | -0.02    |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 42.868  | -7.2   | 39    | -0.03    |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 45.448  | -13.6  | 42    | -0.03    |
| 31   | Naphthalene                  | 40.000 | 41.205  | -3.0   | 38    | -0.03    |
| 32   | Benzoic acid                 | 40.000 | 37.152  | 7.1    | 34    | -0.04    |
| 33   | 4-Chloroaniline              | 40.000 | 40.828  | -2.1   | 37    | -0.02    |
| 34 C | Hexachlorobutadiene          | 40.000 | 48.887  | -22.2# | 44    | -0.03    |
| 35   | Caprolactam                  | 40.000 | 40.228  | -0.6   | 38    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 47.771  | -19.4  | 44    | -0.02    |
| 37   | 2-Methylnaphthalene          | 40.000 | 43.943  | -9.9   | 40    | -0.03    |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000  | 0.0    | 44    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.222  | -5.6   | 47    | -0.03    |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 34.795  | 13.0   | 37    | -0.03    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 86.570  | -8.2   | 49    | -0.03    |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 40.764  | -1.9   | 44    | -0.02    |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.549  | 1.1    | 43    | -0.02    |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 78.089  | 2.4    | 43    | -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                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 37.905 | 5.2    | 42    | -0.02    |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.852 | 2.9    | 43    | -0.02    |
| 47   | 2-Nitroaniline             | 40.000 | 55.338 | -38.3# | 60    | -0.03    |
| 48   | Acenaphthylene             | 40.000 | 40.319 | -0.8   | 45    | -0.03    |
| 49   | Dimethylphthalate          | 40.000 | 39.442 | 1.4    | 45    | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 40.245 | -0.6   | 44    | -0.02    |
| 51 C | Acenaphthene               | 40.000 | 41.410 | -3.5   | 46    | -0.02    |
| 52   | 3-Nitroaniline             | 40.000 | 39.669 | 0.8    | 44    | -0.03    |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 40.403 | -1.0   | 46    | -0.02    |
| 54   | Dibenzofuran               | 40.000 | 41.851 | -4.6   | 47    | -0.02    |
| 55 P | 4-Nitrophenol              | 40.000 | 28.969 | 27.6#  | 32    | -0.02    |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 44.170 | -10.4  | 48    | -0.02    |
| 57   | Fluorene                   | 40.000 | 43.696 | -9.2   | 50    | -0.03    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 44.241 | -10.6  | 50    | -0.02    |
| 59   | Diethylphthalate           | 40.000 | 42.206 | -5.5   | 48    | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 43.480 | -8.7   | 50    | -0.02    |
| 61   | 4-Nitroaniline             | 40.000 | 30.422 | 23.9   | 35    | -0.02    |
| 62   | Azobenzene                 | 40.000 | 58.338 | -45.8# | 65    | -0.03    |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 51    | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 42.235 | -5.6   | 53    | -0.02    |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 39.455 | 1.4    | 52    | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 40.425 | -1.1   | 53    | -0.02    |
| 67   | Hexachlorobenzene          | 40.000 | 38.132 | 4.7    | 49    | -0.03    |
| 68   | Atrazine                   | 40.000 | 39.789 | 0.5    | 50    | -0.02    |
| 69 C | Pentachlorophenol          | 40.000 | 39.839 | 0.4    | 50    | -0.02    |
| 70   | Phenanthrene               | 40.000 | 42.179 | -5.4   | 54    | -0.02    |
| 71   | Anthracene                 | 40.000 | 42.657 | -6.6   | 55    | -0.02    |
| 72   | Carbazole                  | 40.000 | 43.482 | -8.7   | 57    | -0.02    |
| 73   | Di-n-butylphthalate        | 40.000 | 43.020 | -7.6   | 55    | -0.02    |
| 74 C | Fluoranthene               | 40.000 | 47.000 | -17.5  | 61    | -0.02    |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 64    | -0.02    |
| 76   | Benzidine                  | 40.000 | 25.263 | 36.8#  | 39    | -0.02    |
| 77   | Pyrene                     | 40.000 | 39.215 | 2.0    | 63    | -0.02    |
| 78 S | Terphenyl-d14              | 80.000 | 79.953 | 0.1    | 63    | -0.02    |
| 79   | Butylbenzylphthalate       | 40.000 | 39.743 | 0.6    | 61    | -0.02    |
| 80   | Benzo(a)anthracene         | 40.000 | 42.471 | -6.2   | 69    | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 40.646 | -1.6   | 64    | -0.02    |
| 82   | Chrysene                   | 40.000 | 42.485 | -6.2   | 69    | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.244 | -0.6   | 63    | -0.02    |
| 84 c | Di-n-octyl phthalate       | 40.000 | 41.889 | -4.7   | 66    | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 42.361 | -5.9   | 70    | -0.05    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 69    | -0.03    |
| 87   | Benzo(b)fluoranthene       | 40.000 | 39.793 | 0.5    | 69    | -0.03    |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 41.248 | -3.1 | 73    | -0.03    |
| 89 C | Benzo(a)pyrene         | 40.000 | 41.593 | -4.0 | 73    | -0.03    |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 39.194 | 2.0  | 70    | -0.05    |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 39.893 | 0.3  | 71    | -0.05    |

(#) = Out of Range

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