

Data Path : Z:\HPCHEM1\BNA F\Data\BF011918\  
 Data File : BF102226.D  
 Acq On : 19 Jan 2018 19:39  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jan 19 22:03:34 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 19 13:31:35 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                     | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|------------------------------|--------|--------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4       | 20.000 | 20.000 | 0.0    | 59    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 35.190 | 12.0   | 52    | 0.00     |
| 3    | Pyridine                     | 40.000 | 35.423 | 11.4   | 52    | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 33.860 | 15.4   | 49    | -0.02    |
| 5 S  | 2-Fluorophenol               | 80.000 | 76.410 | 4.5    | 57    | 0.00     |
| 6    | Aniline                      | 40.000 | 36.855 | 7.9    | 54    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 76.529 | 4.3    | 57    | -0.01    |
| 8    | 2-Chlorophenol               | 40.000 | 40.470 | -1.2   | 59    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 38.735 | 3.2    | 57    | 0.00     |
| 10 C | Phenol                       | 40.000 | 37.453 | 6.4    | 54    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 37.309 | 6.7    | 56    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.244 | -0.6   | 60    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 40.126 | -0.3   | 60    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.882 | -2.2   | 61    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 37.873 | 5.3    | 55    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 33.962 | 15.1   | 49    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.152 | 2.1    | 58    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 40.091 | -0.2   | 59    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.554 | 8.6    | 55    | -0.01    |
| 20   | 3+4-Methylphenols            | 40.000 | 37.946 | 5.1    | 57    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 59    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 38.707 | 3.2    | 59    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 82.391 | -3.0   | 59    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 39.619 | 1.0    | 58    | 0.00     |
| 25   | Isophorone                   | 40.000 | 36.988 | 7.5    | 56    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 50.012 | -25.0# | 70    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.065 | 4.8    | 56    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 37.556 | 6.1    | 56    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 41.010 | -2.5   | 60    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.567 | -3.9   | 62    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 39.910 | 0.2    | 60    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 32.031 | 19.9   | 43    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 39.645 | 0.9    | 59    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 42.850 | -7.1   | 64    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 37.964 | 5.1    | 55    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 38.634 | 3.4    | 57    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.881 | 0.3    | 60    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 60    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.466 | -6.2   | 65    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 39.902 | 0.2    | 58    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 85.833 | -7.3   | 64    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 41.332 | -3.3   | 61    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 41.204 | -3.0   | 60    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 87.101 | -8.9   | 65    | 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                   | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 39.777 | 0.6   | 61    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.436 | -1.1  | 62    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 42.226 | -5.6  | 59    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 38.809 | 3.0   | 59    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 39.570 | 1.1   | 60    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 42.803 | -7.0  | 60    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 37.102 | 7.2   | 57    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 39.605 | 1.0   | 56    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 43.369 | -8.4  | 70    | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 38.149 | 4.6   | 58    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 39.981 | 0.0   | 56    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 43.288 | -8.2  | 60    | 0.00     |
| 57   | Fluorene                   | 40.000 | 43.170 | -7.9  | 64    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 38.893 | 2.8   | 57    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 37.721 | 5.7   | 58    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 43.761 | -9.4  | 65    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 37.676 | 5.8   | 54    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 35.267 | 11.8  | 54    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 57    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 45.007 | -12.5 | 65    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 40.482 | -1.2  | 60    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 42.326 | -5.8  | 61    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 43.730 | -9.3  | 63    | 0.00     |
| 68   | Atrazine                   | 40.000 | 40.260 | -0.6  | 57    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 36.615 | 8.5   | 49    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 39.710 | 0.7   | 58    | 0.00     |
| 71   | Anthracene                 | 40.000 | 39.508 | 1.2   | 58    | 0.00     |
| 72   | Carbazole                  | 40.000 | 35.027 | 12.4  | 51    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.589 | 1.0   | 57    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 36.028 | 9.9   | 53    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 55    | 0.00     |
| 76   | Benzidine                  | 40.000 | 21.762 | 45.6# | 29    | 0.00     |
| 77   | Pyrene                     | 40.000 | 38.998 | 2.5   | 52    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 82.455 | -3.1  | 57    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 40.007 | -0.0  | 51    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 38.872 | 2.8   | 53    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 38.206 | 4.5   | 51    | 0.00     |
| 82   | Chrysene                   | 40.000 | 38.157 | 4.6   | 51    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 45.162 | -12.9 | 60    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 43.188 | -8.0  | 56    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 47.666 | -19.2 | 67    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 62    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 40.981 | -2.5  | 59    | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 36.671 | 8.3  | 58    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 40.466 | -1.2 | 62    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 43.561 | -8.9 | 65    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 43.520 | -8.8 | 66    | 0.00     |

(#) = Out of Range

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