

Data Path : Z:\HPCHEM1\BNA F\Data\BF042518\  
 Data File : BF104781.D  
 Acq On : 25 Apr 2018 11:44  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 25 14:14:45 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 25 14:01:50 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    | 85    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 35.503 | 11.2   | 75    | 0.00     |
| 3    | Pyridine                     | 40.000 | 33.586 | 16.0   | 71    | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 33.059 | 17.4   | 70    | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 72.560 | 9.3    | 78    | 0.00     |
| 6    | Aniline                      | 40.000 | 34.089 | 14.8   | 72    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 71.716 | 10.4   | 78    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 37.530 | 6.2    | 80    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 55.951 | -39.9# | 102   | 0.00     |
| 10 C | Phenol                       | 40.000 | 36.725 | 8.2    | 80    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 35.273 | 11.8   | 75    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 37.740 | 5.6    | 81    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 38.548 | 3.6    | 82    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.524 | 3.7    | 82    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 35.522 | 11.2   | 77    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 31.766 | 20.6   | 68    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 36.911 | 7.7    | 79    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 39.014 | 2.5    | 84    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 32.947 | 17.6   | 74    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 36.496 | 8.8    | 79    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 85    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 36.436 | 8.9    | 78    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 84.309 | -5.4   | 87    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 40.026 | -0.1   | 82    | 0.00     |
| 25   | Isophorone                   | 40.000 | 35.025 | 12.4   | 75    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 50.959 | -27.4# | 102   | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 35.024 | 12.4   | 74    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 35.764 | 10.6   | 77    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 37.722 | 5.7    | 79    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.020 | 2.4    | 83    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 37.456 | 6.4    | 80    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 31.604 | 21.0   | 63    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 37.806 | 5.5    | 81    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 39.933 | 0.2    | 85    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 34.727 | 13.2   | 72    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 38.037 | 4.9    | 81    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 37.427 | 6.4    | 81    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 82    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 41.090 | -2.7   | 87    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 41.055 | -2.6   | 83    | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 79.326 | 0.8    | 82    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 38.784 | 3.0    | 78    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 38.881 | 2.8    | 81    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 79.025 | 1.2    | 83    | 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 | 38.939 | 2.7    | 82    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 38.975 | 2.6    | 82    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 46.432 | -16.1  | 90    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 37.224 | 6.9    | 77    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 38.696 | 3.3    | 82    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 45.240 | -13.1  | 87    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 35.769 | 10.6   | 75    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 44.713 | -11.8  | 86    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 51.275 | -28.2# | 120   | 0.00     |
| 54   | Dibenzofuran               | 40.000 | 36.586 | 8.5    | 76    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 33.723 | 15.7   | 65    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 43.544 | -8.9   | 86    | 0.00     |
| 57   | Fluorene                   | 40.000 | 40.784 | -2.0   | 84    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 36.883 | 7.8    | 77    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 36.828 | 7.9    | 78    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 42.526 | -6.3   | 88    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 45.377 | -13.4  | 86    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 34.520 | 13.7   | 72    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 82    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 48.788 | -22.0  | 106   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 37.314 | 6.7    | 78    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 38.201 | 4.5    | 80    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 39.156 | 2.1    | 82    | 0.00     |
| 68   | Atrazine                   | 40.000 | 36.570 | 8.6    | 77    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 37.883 | 5.3    | 74    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 36.937 | 7.7    | 77    | 0.00     |
| 71   | Anthracene                 | 40.000 | 37.215 | 7.0    | 78    | 0.00     |
| 72   | Carbazole                  | 40.000 | 36.377 | 9.1    | 77    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 35.915 | 10.2   | 75    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 36.527 | 8.7    | 76    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 78    | 0.00     |
| 76   | Benzidine                  | 40.000 | 35.554 | 11.1   | 71    | 0.00     |
| 77   | Pyrene                     | 40.000 | 38.389 | 4.0    | 76    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 78.239 | 2.2    | 80    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 38.154 | 4.6    | 75    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 40.297 | -0.7   | 81    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 37.706 | 5.7    | 72    | 0.00     |
| 82   | Chrysene                   | 40.000 | 37.254 | 6.9    | 74    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 39.474 | 1.3    | 79    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 35.337 | 11.7   | 68    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 35.150 | 12.1   | 72    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 70    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 40.476 | -1.2   | 71    | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.250 | 6.9  | 67    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.202 | 4.5  | 68    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 38.692 | 3.3  | 71    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 39.217 | 2.0  | 74    | 0.00     |

(#) = Out of Range

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