

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF121817\  
 Data File : BF101499.D  
 Acq On : 19 Dec 2017 00:33  
 Operator : SJ/JU  
 Sample : SSTDC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDC040

Quant Time: Dec 19 04:36:27 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 18 15:38:59 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   | 78    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 35.945 | 10.1  | 69    | -0.01    |
| 3    | Pyridine                     | 40.000 | 36.245 | 9.4   | 69    | -0.01    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 32.871 | 17.8  | 62    | -0.01    |
| 5 S  | 2-Fluorophenol               | 80.000 | 77.969 | 2.5   | 76    | 0.00     |
| 6    | Aniline                      | 40.000 | 35.308 | 11.7  | 70    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 70.616 | 11.7  | 72    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 37.665 | 5.8   | 75    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 35.155 | 12.1  | 69    | 0.00     |
| 10 C | Phenol                       | 40.000 | 35.580 | 11.1  | 71    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 36.340 | 9.1   | 71    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 37.960 | 5.1   | 75    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 37.908 | 5.2   | 76    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 38.089 | 4.8   | 75    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 33.976 | 15.1  | 68    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 35.298 | 11.8  | 68    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 34.532 | 13.7  | 71    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 26.219 | 34.5# | 52    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 33.636 | 15.9  | 70    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 38.624 | 3.4   | 76    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 71    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 40.045 | -0.1  | 73    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 76.532 | 4.3   | 68    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 36.838 | 7.9   | 67    | 0.00     |
| 25   | Isophorone                   | 40.000 | 34.911 | 12.7  | 64    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 33.523 | 16.2  | 57    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.447 | 3.9   | 70    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 37.867 | 5.3   | 69    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 39.538 | 1.2   | 70    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 39.346 | 1.6   | 71    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 37.904 | 5.2   | 70    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 29.613 | 26.0# | 54    | -0.02    |
| 33   | 4-Chloroaniline              | 40.000 | 37.333 | 6.7   | 69    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.139 | -2.8  | 74    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 33.244 | 16.9  | 60    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 35.155 | 12.1  | 63    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 36.777 | 8.1   | 68    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 61    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.861 | -7.2  | 67    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 11.565 | 71.1# | 0     | -0.09    |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 72.405 | 9.5   | 56    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 43.090 | -7.7  | 65    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 40.262 | -0.7  | 61    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 90.309 | -12.9 | 71    | 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 | 41.322 | -3.3  | 67    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 39.440 | 1.4   | 63    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 39.717 | 0.7   | 61    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 38.341 | 4.1   | 62    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 40.126 | -0.3  | 65    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 36.903 | 7.7   | 56    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 37.571 | 6.1   | 61    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 39.728 | 0.7   | 60    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 11.008 | 72.5# | 2     | 0.04     |
| 54   | Dibenzofuran               | 40.000 | 40.219 | -0.5  | 63    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 31.476 | 21.3  | 46    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 33.898 | 15.3  | 52    | 0.00     |
| 57   | Fluorene                   | 40.000 | 37.887 | 5.3   | 59    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 36.970 | 7.6   | 57    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 39.372 | 1.6   | 64    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.620 | -1.5  | 62    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 34.645 | 13.4  | 54    | 0.00     |
| 62   | Azobenzene                 | 40.000 | 32.624 | 18.4  | 53    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 50    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 4.001  | 90.0# | 5     | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 45.038 | -12.6 | 58    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 44.982 | -12.5 | 57    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 42.145 | -5.4  | 54    | 0.00     |
| 68   | Atrazine                   | 40.000 | 34.607 | 13.5  | 44    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 37.134 | 7.2   | 48    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 39.337 | 1.7   | 52    | 0.00     |
| 71   | Anthracene                 | 40.000 | 38.594 | 3.5   | 50    | 0.00     |
| 72   | Carbazole                  | 40.000 | 37.188 | 7.0   | 48    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 43.022 | -7.6  | 56    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 36.609 | 8.5   | 48    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 55    | 0.00     |
| 76   | Benzidine                  | 40.000 | 34.728 | 13.2  | 48    | 0.00     |
| 77   | Pyrene                     | 40.000 | 34.236 | 14.4  | 48    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 71.034 | 11.2  | 52    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 33.517 | 16.2  | 46    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 37.184 | 7.0   | 52    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 42.543 | -6.4  | 59    | 0.00     |
| 82   | Chrysene                   | 40.000 | 37.806 | 5.5   | 54    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 35.642 | 10.9  | 50    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 37.371 | 6.6   | 52    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 38.308 | 4.2   | 56    | 0.01     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 58    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 36.826 | 7.9   | 53    | 0.00     |

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|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 37.287 | 6.8  | 57    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 37.251 | 6.9  | 55    | 0.01     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 37.614 | 6.0  | 58    | 0.01     |
| 91   | Benzo(g,h,i)perylene   | 40.000 | 35.346 | 11.6 | 54    | 0.01     |

(#) = Out of Range

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