

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\  
 Data File : BF111528.D  
 Acq On : 17 Dec 2018 9:59  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 18 04:17:58 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 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    | 83    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 37.933  | 5.2    | 77    | 0.00     |
| 3    | Pyridine                     | 40.000 | 39.827  | 0.4    | 80    | 0.00     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 39.327  | 1.7    | 77    | 0.00     |
| 5 S  | 2-Fluorophenol               | 80.000 | 74.334  | 7.1    | 77    | 0.00     |
| 6    | Aniline                      | 40.000 | 35.654  | 10.9   | 76    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 78.992  | 1.3    | 85    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 40.055  | -0.1   | 84    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 36.892  | 7.8    | 83    | 0.00     |
| 10 C | Phenol                       | 40.000 | 36.255  | 9.4    | 77    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 35.737  | 10.7   | 76    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.664  | -1.7   | 87    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 40.762  | -1.9   | 87    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 37.659  | 5.9    | 80    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 36.775  | 8.1    | 78    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 38.708  | 3.2    | 82    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 38.665  | 3.3    | 83    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 38.450  | 3.9    | 84    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 38.753  | 3.1    | 84    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 39.393  | 1.5    | 85    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000  | 0.0    | 67    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 51.129  | -27.8# | 86    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 99.234  | -24.0  | 83    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 43.855  | -9.6   | 74    | 0.00     |
| 25   | Isophorone                   | 40.000 | 48.956  | -22.4  | 84    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 43.361  | -8.4   | 72    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 42.302  | -5.8   | 71    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 40.248  | -0.6   | 69    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 42.394  | -6.0   | 72    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 41.184  | -3.0   | 72    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 40.979  | -2.4   | 71    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 35.238  | 11.9   | 58    | 0.00     |
| 33   | 4-Chloroaniline              | 40.000 | 40.357  | -0.9   | 71    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 43.268  | -8.2   | 73    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 40.854  | -2.1   | 70    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.029  | -2.6   | 72    | 0.00     |
| 37   | 2-Methylnaphthalene          | 40.000 | 39.808  | 0.5    | 72    | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 39.652  | 0.9    | 72    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000  | 0.0    | 69    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 41.280  | -3.2   | 74    | 0.00     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 39.481  | 1.3    | 67    | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 119.787 | -49.7# | 106   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 40.175  | -0.4   | 72    | 0.00     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 41.196  | -3.0   | 73    | 0.00     |

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

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 80.000 | 83.339 | -4.2   | 76    | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 40.914 | -2.3   | 74    | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 41.445 | -3.6   | 75    | 0.00     |
| 48   | 2-Nitroaniline             | 40.000 | 40.106 | -0.3   | 72    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 41.628 | -4.1   | 75    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 41.199 | -3.0   | 74    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 41.698 | -4.2   | 75    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 42.127 | -5.3   | 76    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 41.635 | -4.1   | 75    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 43.291 | -8.2   | 77    | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 42.881 | -7.2   | 78    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 42.475 | -6.2   | 72    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 43.223 | -8.1   | 76    | 0.00     |
| 58   | Fluorene                   | 40.000 | 57.826 | -44.6# | 106   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 48.341 | -20.9  | 87    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 47.188 | -18.0  | 85    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 55.853 | -39.6# | 100   | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 60.752 | -51.9# | 107   | 0.00     |
| 63   | Azobenzene                 | 40.000 | 58.748 | -46.9# | 107   | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 104   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 40.098 | -0.2   | 106   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.997 | 0.0    | 108   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.841 | 0.4    | 106   | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 40.028 | -0.1   | 107   | 0.00     |
| 69   | Atrazine                   | 40.000 | 39.968 | 0.1    | 104   | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 42.368 | -5.9   | 110   | 0.00     |
| 71   | Phenanthrene               | 40.000 | 39.652 | 0.9    | 107   | 0.00     |
| 72   | Anthracene                 | 40.000 | 39.455 | 1.4    | 106   | 0.00     |
| 73   | Carbazole                  | 40.000 | 40.260 | -0.6   | 108   | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 41.090 | -2.7   | 108   | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 41.366 | -3.4   | 108   | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 108   | 0.00     |
| 77   | Benzidine                  | 40.000 | 39.824 | 0.4    | 118   | 0.00     |
| 78   | Pyrene                     | 40.000 | 39.539 | 1.2    | 109   | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 75.519 | 5.6    | 106   | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 40.719 | -1.8   | 113   | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 39.255 | 1.9    | 110   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 39.747 | 0.6    | 112   | 0.00     |
| 83   | Chrysene                   | 40.000 | 39.073 | 2.3    | 112   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.502 | -1.3   | 113   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 41.026 | -2.6   | 114   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 34.443 | 13.9   | 112   | 0.00     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 110   | 0.00     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 40.739 | -1.8 | 110   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 42.521 | -6.3 | 124   | 0.00     |
| 90 C | Benzo(a)pyrene         | 40.000 | 40.682 | -1.7 | 116   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 36.483 | 8.8  | 111   | 0.00     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 36.621 | 8.4  | 114   | 0.00     |

(#) = Out of Range

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