

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122718\  
 Data File : BF111754.D  
 Acq On : 27 Dec 2018 11:19  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 28 05:50:14 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 19 17:39:39 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    | 74    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 35.018 | 12.5   | 67    | 0.00     |
| 3    | Pyridine                     | 40.000 | 36.529 | 8.7    | 70    | 0.01     |
| 4    | n-Nitrosodimethylamine       | 40.000 | 37.506 | 6.2    | 71    | 0.01     |
| 5 S  | 2-Fluorophenol               | 80.000 | 78.061 | 2.4    | 74    | 0.02     |
| 6    | Aniline                      | 40.000 | 37.605 | 6.0    | 71    | 0.01     |
| 7 S  | Phenol-d6                    | 80.000 | 78.378 | 2.0    | 74    | 0.02     |
| 8    | 2-Chlorophenol               | 40.000 | 40.384 | -1.0   | 76    | 0.02     |
| 9    | Benzaldehyde                 | 40.000 | 36.757 | 8.1    | 71    | 0.00     |
| 10 C | Phenol                       | 40.000 | 38.187 | 4.5    | 72    | 0.03     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 39.183 | 2.0    | 74    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.480 | -1.2   | 76    | 0.01     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 40.416 | -1.0   | 76    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 40.503 | -1.3   | 76    | 0.01     |
| 15   | Benzyl Alcohol               | 40.000 | 40.202 | -0.5   | 75    | 0.01     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 35.744 | 10.6   | 67    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 39.004 | 2.5    | 73    | 0.02     |
| 18   | Hexachloroethane             | 40.000 | 42.366 | -5.9   | 79    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 37.953 | 5.1    | 73    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 39.066 | 2.3    | 73    | 0.02     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0    | 77    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 39.226 | 1.9    | 76    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 88.113 | -10.1  | 81    | 0.01     |
| 24   | Nitrobenzene                 | 40.000 | 42.254 | -5.6   | 77    | 0.01     |
| 25   | Isophorone                   | 40.000 | 38.880 | 2.8    | 74    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 52.673 | -31.7# | 93    | 0.01     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 38.219 | 4.5    | 72    | 0.02     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.135 | 2.2    | 75    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 40.409 | -1.0   | 77    | 0.02     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.571 | -1.4   | 77    | 0.01     |
| 31   | Naphthalene                  | 40.000 | 40.142 | -0.4   | 77    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 35.601 | 11.0   | 66    | 0.02     |
| 33   | 4-Chloroaniline              | 40.000 | 40.223 | -0.6   | 76    | 0.01     |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.327 | -3.3   | 79    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 38.982 | 2.5    | 74    | 0.01     |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 41.018 | -2.5   | 78    | 0.02     |
| 37   | 2-Methylnaphthalene          | 40.000 | 40.340 | -0.9   | 77    | 0.00     |
| 38   | 1-Methylnaphthalene          | 40.000 | 40.511 | -1.3   | 77    | 0.00     |
| 39 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0    | 78    | 0.01     |
| 40   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 41.179 | -2.9   | 80    | 0.01     |
| 41 P | Hexachlorocyclopentadiene    | 40.000 | 46.647 | -16.6  | 88    | 0.00     |
| 42 S | 2,4,6-Tribromophenol         | 80.000 | 86.905 | -8.6   | 82    | 0.01     |
| 43 C | 2,4,6-Trichlorophenol        | 40.000 | 40.999 | -2.5   | 80    | 0.02     |
| 44   | 2,4,5-Trichlorophenol        | 40.000 | 41.176 | -2.9   | 79    | 0.02     |

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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 | 80.169 | -0.2   | 80    | 0.00     |
| 46   | 1,1'-Biphenyl              | 40.000 | 40.534 | -1.3   | 79    | 0.00     |
| 47   | 2-Chloronaphthalene        | 40.000 | 39.986 | 0.0    | 78    | 0.01     |
| 48   | 2-Nitroaniline             | 40.000 | 47.285 | -18.2  | 89    | 0.01     |
| 49   | Acenaphthylene             | 40.000 | 39.930 | 0.2    | 78    | 0.01     |
| 50   | Dimethylphthalate          | 40.000 | 40.503 | -1.3   | 78    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 46.380 | -16.0  | 87    | 0.01     |
| 52 C | Acenaphthene               | 40.000 | 40.921 | -2.3   | 81    | 0.01     |
| 53   | 3-Nitroaniline             | 40.000 | 46.874 | -17.2  | 82    | 0.01     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 55.382 | -38.5# | 120   | 0.02     |
| 55   | Dibenzofuran               | 40.000 | 39.947 | 0.1    | 77    | 0.01     |
| 56 P | 4-Nitrophenol              | 40.000 | 44.739 | -11.8  | 79    | 0.04     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 50.337 | -25.8# | 93    | 0.01     |
| 58   | Fluorene                   | 40.000 | 40.130 | -0.3   | 79    | 0.01     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 40.612 | -1.5   | 77    | 0.02     |
| 60   | Diethylphthalate           | 40.000 | 39.693 | 0.8    | 77    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 40.877 | -2.2   | 81    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 46.682 | -16.7  | 88    | 0.01     |
| 63   | Azobenzene                 | 40.000 | 39.189 | 2.0    | 76    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 77    | 0.01     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 53.930 | -34.8# | 113   | 0.02     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 40.571 | -1.4   | 77    | 0.01     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 40.814 | -2.0   | 79    | 0.01     |
| 68   | Hexachlorobenzene          | 40.000 | 41.036 | -2.6   | 78    | 0.01     |
| 69   | Atrazine                   | 40.000 | 40.059 | -0.1   | 77    | 0.01     |
| 70 C | Pentachlorophenol          | 40.000 | 39.109 | 2.2    | 71    | 0.02     |
| 71   | Phenanthrene               | 40.000 | 39.986 | 0.0    | 77    | 0.02     |
| 72   | Anthracene                 | 40.000 | 39.978 | 0.1    | 78    | 0.02     |
| 73   | Carbazole                  | 40.000 | 39.666 | 0.8    | 76    | 0.02     |
| 74   | Di-n-butylphthalate        | 40.000 | 39.394 | 1.5    | 75    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 38.685 | 3.3    | 75    | 0.02     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 68    | 0.02     |
| 77   | Benzidine                  | 40.000 | 39.445 | 1.4    | 66    | 0.02     |
| 78   | Pyrene                     | 40.000 | 43.921 | -9.8   | 74    | 0.02     |
| 79 S | Terphenyl-d14              | 80.000 | 86.280 | -7.9   | 74    | 0.02     |
| 80   | Butylbenzylphthalate       | 40.000 | 42.578 | -6.4   | 69    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 41.258 | -3.1   | 71    | 0.02     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 40.354 | -0.9   | 67    | 0.02     |
| 83   | Chrysene                   | 40.000 | 39.962 | 0.1    | 68    | 0.02     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 43.073 | -7.7   | 72    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 40.093 | -0.2   | 67    | 0.01     |
| 86   | Indeno(1,2,3-cd)pyrene     | 40.000 | 41.190 | -3.0   | 70    | 0.06     |
| 87 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 67    | 0.04     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 40.000 | 40.550 | -1.4 | 66    | 0.03     |
| 89   | Benzo(k)fluoranthene   | 40.000 | 39.038 | 2.4  | 67    | 0.03     |
| 90 C | Benzo(a)pyrene         | 40.000 | 40.236 | -0.6 | 68    | 0.04     |
| 91   | Dibenzo(a,h)anthracene | 40.000 | 43.200 | -8.0 | 70    | 0.06     |
| 92   | Benzo(q,h,i)perylene   | 40.000 | 42.879 | -7.2 | 69    | 0.07     |

(#) = Out of Range

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