

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF101118\  
 Data File : BF109811.D  
 Acq On : 12 Oct 2018 3:10  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 12 08:58:44 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 08 16:02:11 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   | 67    | 0.00     |
| 2    | 1,4-Dioxane                  | 40.000 | 45.192 | -13.0 | 75    | -0.06    |
| 3    | Pyridine                     | 40.000 | 36.368 | 9.1   | 58    | -0.05    |
| 4    | n-Nitrosodimethylamine       | 40.000 | 37.122 | 7.2   | 60    | -0.05    |
| 5 S  | 2-Fluorophenol               | 80.000 | 87.911 | -9.9  | 67    | -0.01    |
| 6    | Aniline                      | 40.000 | 39.565 | 1.1   | 63    | 0.00     |
| 7 S  | Phenol-d6                    | 80.000 | 79.429 | 0.7   | 64    | 0.00     |
| 8    | 2-Chlorophenol               | 40.000 | 41.282 | -3.2  | 66    | 0.00     |
| 9    | Benzaldehyde                 | 40.000 | 40.795 | -2.0  | 62    | 0.00     |
| 10 C | Phenol                       | 40.000 | 36.917 | 7.7   | 63    | 0.00     |
| 11   | bis(2-Chloroethyl)ether      | 40.000 | 33.982 | 15.0  | 62    | 0.00     |
| 12   | 1,3-Dichlorobenzene          | 40.000 | 40.659 | -1.6  | 66    | 0.00     |
| 13 C | 1,4-Dichlorobenzene          | 40.000 | 41.107 | -2.8  | 69    | 0.00     |
| 14   | 1,2-Dichlorobenzene          | 40.000 | 41.712 | -4.3  | 69    | 0.00     |
| 15   | Benzyl Alcohol               | 40.000 | 37.130 | 7.2   | 58    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane) | 40.000 | 37.740 | 5.6   | 63    | 0.00     |
| 17   | 2-Methylphenol               | 40.000 | 36.705 | 8.2   | 61    | 0.00     |
| 18   | Hexachloroethane             | 40.000 | 35.167 | 12.1  | 58    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine   | 40.000 | 36.910 | 7.7   | 62    | 0.00     |
| 20   | 3+4-Methylphenols            | 40.000 | 35.349 | 11.6  | 56    | 0.00     |
| 21 I | Naphthalene-d8               | 20.000 | 20.000 | 0.0   | 59    | 0.00     |
| 22   | Acetophenone                 | 40.000 | 41.660 | -4.1  | 61    | 0.00     |
| 23 S | Nitrobenzene-d5              | 80.000 | 85.917 | -7.4  | 63    | 0.00     |
| 24   | Nitrobenzene                 | 40.000 | 42.022 | -5.1  | 62    | 0.00     |
| 25   | Isophorone                   | 40.000 | 38.791 | 3.0   | 58    | 0.00     |
| 26 C | 2-Nitrophenol                | 40.000 | 21.519 | 46.2# | 30    | 0.00     |
| 27   | 2,4-Dimethylphenol           | 40.000 | 37.903 | 5.2   | 55    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane   | 40.000 | 39.426 | 1.4   | 58    | 0.00     |
| 29 C | 2,4-Dichlorophenol           | 40.000 | 37.289 | 6.8   | 54    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene       | 40.000 | 40.173 | -0.4  | 59    | 0.00     |
| 31   | Naphthalene                  | 40.000 | 37.805 | 5.5   | 56    | 0.00     |
| 32   | Benzoic acid                 | 40.000 | 20.041 | 49.9# | 32    | -0.04    |
| 33   | 4-Chloroaniline              | 40.000 | 38.240 | 4.4   | 57    | 0.00     |
| 34 C | Hexachlorobutadiene          | 40.000 | 41.906 | -4.8  | 62    | 0.00     |
| 35   | Caprolactam                  | 40.000 | 35.190 | 12.0  | 51    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol      | 40.000 | 35.140 | 12.1  | 51    | -0.01    |
| 37   | 2-Methylnaphthalene          | 40.000 | 35.489 | 11.3  | 53    | 0.00     |
| 38 I | Acenaphthene-d10             | 20.000 | 20.000 | 0.0   | 51    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene   | 40.000 | 42.656 | -6.6  | 54    | 0.00     |
| 40 P | Hexachlorocyclopentadiene    | 40.000 | 8.140  | 79.7# | 1     | 0.00     |
| 41 S | 2,4,6-Tribromophenol         | 80.000 | 88.788 | -11.0 | 57    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol        | 40.000 | 38.815 | 3.0   | 48    | 0.00     |
| 43   | 2,4,5-Trichlorophenol        | 40.000 | 39.954 | 0.1   | 50    | 0.00     |
| 44 S | 2-Fluorobiphenyl             | 80.000 | 85.701 | -7.1  | 56    | 0.00     |

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

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 40.000 | 41.848 | -4.6   | 54    | 0.00     |
| 46   | 2-Chloronaphthalene        | 40.000 | 40.763 | -1.9   | 52    | 0.00     |
| 47   | 2-Nitroaniline             | 40.000 | 42.898 | -7.2   | 54    | 0.00     |
| 48   | Acenaphthylene             | 40.000 | 40.434 | -1.1   | 52    | 0.00     |
| 49   | Dimethylphthalate          | 40.000 | 41.240 | -3.1   | 54    | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 40.000 | 36.905 | 7.7    | 46    | 0.00     |
| 51 C | Acenaphthene               | 40.000 | 40.220 | -0.5   | 53    | 0.00     |
| 52   | 3-Nitroaniline             | 40.000 | 46.613 | -16.5  | 59    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 40.000 | 0.000  | 100.0# | 0     | -9.80#   |
| 54   | Dibenzofuran               | 40.000 | 40.303 | -0.8   | 53    | 0.00     |
| 55 P | 4-Nitrophenol              | 40.000 | 31.156 | 22.1   | 38    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 40.000 | 35.091 | 12.3   | 44    | 0.00     |
| 57   | Fluorene                   | 40.000 | 40.579 | -1.4   | 53    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.368 | -8.4   | 54    | 0.00     |
| 59   | Diethylphthalate           | 40.000 | 41.587 | -4.0   | 55    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 40.000 | 40.767 | -1.9   | 54    | 0.00     |
| 61   | 4-Nitroaniline             | 40.000 | 49.766 | -24.4  | 61    | -0.01    |
| 62   | Azobenzene                 | 40.000 | 40.602 | -1.5   | 52    | 0.00     |
| 63 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 59    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 40.000 | 0.466  | 98.8#  | 1     | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 40.000 | 36.090 | 9.8    | 54    | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 40.000 | 34.877 | 12.8   | 52    | 0.00     |
| 67   | Hexachlorobenzene          | 40.000 | 35.957 | 10.1   | 53    | 0.00     |
| 68   | Atrazine                   | 40.000 | 34.324 | 14.2   | 51    | 0.00     |
| 69 C | Pentachlorophenol          | 40.000 | 41.111 | -2.8   | 58    | 0.00     |
| 70   | Phenanthrene               | 40.000 | 38.369 | 4.1    | 58    | 0.00     |
| 71   | Anthracene                 | 40.000 | 41.610 | -4.0   | 62    | 0.00     |
| 72   | Carbazole                  | 40.000 | 42.841 | -7.1   | 63    | 0.00     |
| 73   | Di-n-butylphthalate        | 40.000 | 39.800 | 0.5    | 59    | 0.00     |
| 74 C | Fluoranthene               | 40.000 | 47.142 | -17.9  | 69    | 0.00     |
| 75 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 86    | 0.00     |
| 76   | Benzidine                  | 40.000 | 37.139 | 7.2    | 81    | 0.00     |
| 77   | Pyrene                     | 40.000 | 33.143 | 17.1   | 71    | 0.00     |
| 78 S | Terphenyl-d14              | 80.000 | 67.198 | 16.0   | 74    | 0.00     |
| 79   | Butylbenzylphthalate       | 40.000 | 36.530 | 8.7    | 77    | 0.00     |
| 80   | Benzo(a)anthracene         | 40.000 | 37.781 | 5.5    | 82    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 40.000 | 41.914 | -4.8   | 88    | 0.00     |
| 82   | Chrysene                   | 40.000 | 39.565 | 1.1    | 84    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 40.000 | 40.280 | -0.7   | 86    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 40.000 | 46.691 | -16.7  | 97    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 40.000 | 31.858 | 20.4   | 71    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 75    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 40.000 | 41.935 | -4.8   | 81    | 0.00     |

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|------|------------------------|--------|--------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 40.000 | 40.522 | -1.3 | 72    | 0.00     |
| 89 C | Benzo(a)pyrene         | 40.000 | 38.658 | 3.4  | 72    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 40.000 | 37.691 | 5.8  | 72    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 40.000 | 37.239 | 6.9  | 69    | 0.00     |

(#) = Out of Range

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