

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF072518\  
 Data File : BF107676.D  
 Acq On : 26 Jul 2018 00:47  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jul 26 11:15:00 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 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                    | AvqRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000  | 0.0   | 57    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.579 | 0.498  | 14.0  | 49#   | -0.05    |
| 3    | Pyridine                    | 1.575 | 1.246  | 20.9  | 44#   | -0.03    |
| 4    | n-Nitrosodimethylamine      | 0.664 | 0.450  | 32.2# | 39#   | -0.04    |
| 5 S  | 2-Fluorophenol              | 1.244 | 1.147  | 7.8   | 52    | -0.01    |
| 6    | Aniline                     | 1.926 | 1.679  | 12.8  | 50#   | -0.01    |
| 7 S  | Phenol-d6                   | 1.494 | 1.361  | 8.9   | 53    | 0.00     |
| 8    | 2-Chlorophenol              | 1.333 | 1.269  | 4.8   | 54    | 0.00     |
| 9    | Benzaldehyde                | 0.977 | 0.858  | 12.2  | 54    | 0.00     |
| 10 C | Phenol                      | 1.757 | 1.495  | 14.9  | 49#   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.456 | 1.130  | 22.4  | 43#   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.511 | 1.424  | 5.8   | 55    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.549 | 1.537  | 0.8   | 57    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.390 | 1.308  | 5.9   | 55    | 0.00     |
| 15   | Benzyl Alcohol              | 1.018 | 0.946  | 7.1   | 52    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.457 | 2.069  | 15.8  | 49#   | -0.01    |
| 17   | 2-Methylphenol              | 1.133 | 0.994  | 12.3  | 50    | 0.00     |
| 18   | Hexachloroethane            | 0.543 | 0.390  | 28.2# | 40#   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.965 | 0.841  | 12.8  | 52    | -0.01    |
| 20   | 3+4-Methylphenols           | 1.345 | 1.171  | 12.9  | 50    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000  | 0.0   | 55    | 0.00     |
| 22   | Acetophenone                | 0.470 | 0.451  | 4.0   | 56    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.296 | 0.330  | -11.5 | 59    | -0.01    |
| 24   | Nitrobenzene                | 0.339 | 0.344  | -1.5  | 53    | 0.00     |
| 25   | Isophorone                  | 0.633 | 0.532  | 16.0  | 47#   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.143 | 0.137  | 4.2   | 49#   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.271 | 0.242  | 10.7  | 49#   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.423 | 0.373  | 11.8  | 49#   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.277 | 0.266  | 4.0   | 51    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.311 | 0.295  | 5.1   | 53    | 0.00     |
| 31   | Naphthalene                 | 0.879 | 0.825  | 6.1   | 54    | 0.00     |
| 32   | Benzoic acid                | 0.166 | 0.106  | 36.1# | 32#   | -0.04    |
| 33   | 4-Chloroaniline             | 0.384 | 0.382  | 0.5   | 58    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.185 | 0.181  | 2.2   | 54    | 0.00     |
| 35   | Caprolactam                 | 0.090 | 0.074  | 17.8  | 44#   | -0.01    |
| 36 C | 4-Chloro-3-methylphenol     | 0.308 | 0.273  | 11.4  | 48#   | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.609 | 0.545  | 10.5  | 51    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000  | 0.0   | 48#   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.667 | 0.705  | -5.7  | 52    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.339 | 0.011# | 96.8# | 2#    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.227 | 0.210  | 7.5   | 43#   | -0.01    |
| 42 C | 2,4,6-Trichlorophenol       | 0.427 | 0.414  | 3.0   | 45#   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.446 | 0.438  | 1.8   | 45#   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.315 | 1.451  | -10.3 | 59    | -0.01    |

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|      | Compound                   | AvqRF | CCRF   | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|--------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.742 | 1.830  | -5.1   | 53    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.332 | 1.345  | -1.0   | 50    | 0.00     |
| 47   | 2-Nitroaniline             | 0.388 | 0.470  | -21.1  | 55    | 0.00     |
| 48   | Acenaphthylene             | 2.000 | 1.963  | 1.8    | 49#   | 0.00     |
| 49   | Dimethylphthalate          | 1.507 | 1.519  | -0.8   | 50    | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 0.299 | 0.277  | 7.4    | 43#   | -0.01    |
| 51 C | Acenaphthene               | 1.253 | 1.152  | 8.1    | 45#   | -0.01    |
| 52   | 3-Nitroaniline             | 0.364 | 0.423  | -16.2  | 54    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.096 | 0.002# | 97.9#  | 1#    | 0.02     |
| 54   | Dibenzofuran               | 1.845 | 1.759  | 4.7    | 48#   | -0.01    |
| 55 P | 4-Nitrophenol              | 0.273 | 0.170  | 37.7#  | 28#   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.361 | 0.310  | 14.1   | 39#   | -0.01    |
| 57   | Fluorene                   | 1.316 | 1.269  | 3.6    | 47#   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.371 | 0.336  | 9.4    | 42#   | -0.01    |
| 59   | Diethylphthalate           | 1.574 | 1.531  | 2.7    | 49#   | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 0.744 | 0.710  | 4.6    | 48#   | -0.01    |
| 61   | 4-Nitroaniline             | 0.306 | 0.402  | -31.4# | 60    | -0.01    |
| 62   | Azobenzene                 | 1.476 | 1.270  | 14.0   | 42#   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0    | 42#   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.084 | 0.005  | 94.0#  | 2#    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.679 | 0.722  | -6.3   | 46#   | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.235 | 0.238  | -1.3   | 44#   | -0.01    |
| 67   | Hexachlorobenzene          | 0.259 | 0.250  | 3.5    | 42#   | 0.00     |
| 68   | Atrazine                   | 0.207 | 0.181  | 12.6   | 37#   | -0.01    |
| 69 C | Pentachlorophenol          | 0.162 | 0.132  | 18.5   | 33#   | -0.01    |
| 70   | Phenanthrene               | 0.975 | 0.925  | 5.1    | 42#   | -0.01    |
| 71   | Anthracene                 | 0.981 | 0.990  | -0.9   | 45#   | 0.00     |
| 72   | Carbazole                  | 1.020 | 1.000  | 2.0    | 44#   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.155 | 1.221  | -5.7   | 47#   | -0.01    |
| 74 C | Fluoranthene               | 1.046 | 0.971  | 7.2    | 41#   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0    | 41#   | 0.00     |
| 76   | Benzidine                  | 0.576 | 0.779  | -35.2# | 58    | 0.00     |
| 77   | Pyrene                     | 1.368 | 1.309  | 4.3    | 41#   | 0.00     |
| 78 S | Terphenyl-d14              | 0.781 | 0.872  | -11.7  | 48#   | -0.01    |
| 79   | Butylbenzylphthalate       | 0.588 | 0.618  | -5.1   | 40#   | -0.01    |
| 80   | Benzo(a)anthracene         | 1.172 | 1.076  | 8.2    | 38#   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.371 | 0.452  | -21.8  | 52    | 0.00     |
| 82   | Chrysene                   | 1.126 | 1.107  | 1.7    | 43#   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.830 | 0.787  | 5.2    | 40#   | -0.01    |
| 84 c | Di-n-octyl phthalate       | 1.290 | 1.381  | -7.1   | 42#   | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.954 | 0.840  | 11.9   | 40#   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0    | 40#   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.095 | 0.983  | 10.2   | 36#   | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.072 | 1.122 | -4.7 | 43#   | -0.01    |
| 89 C | Benzo(a)pyrene         | 1.001 | 0.951 | 5.0  | 38#   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.866 | 0.838 | 3.2  | 41#   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 0.854 | 0.788 | 7.7  | 39#   | 0.00     |

(#) = Out of Range

SPCC's out = 2 CCC's out = 0