

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF100918\  
 Data File : BF109724.D  
 Acq On : 10 Oct 2018 4:52  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 10 09:06:33 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                    | AvqRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000  | 0.0   | 68    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.591 | 0.648  | -9.6  | 74    | -0.05    |
| 3    | Pyridine                    | 1.220 | 1.147  | 6.0   | 61    | -0.04    |
| 4    | n-Nitrosodimethylamine      | 0.440 | 0.393  | 10.7  | 59    | -0.04    |
| 5 S  | 2-Fluorophenol              | 1.127 | 1.208  | -7.2  | 67    | -0.01    |
| 6    | Aniline                     | 1.753 | 1.753  | 0.0   | 65    | 0.00     |
| 7 S  | Phenol-d6                   | 1.505 | 1.530  | -1.7  | 67    | 0.00     |
| 8    | 2-Chlorophenol              | 1.386 | 1.420  | -2.5  | 67    | 0.00     |
| 9    | Benzaldehyde                | 0.969 | 0.985  | -1.7  | 63    | 0.00     |
| 10 C | Phenol                      | 1.726 | 1.628  | 5.7   | 65    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.431 | 1.643  | -14.8 | 85    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.585 | 1.583  | 0.1   | 67    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.728 | 1.766  | -2.2  | 70    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.517 | 1.580  | -4.2  | 71    | 0.00     |
| 15   | Benzyl Alcohol              | 1.116 | 0.933  | 16.4  | 54    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.897 | 1.847  | 2.6   | 66    | 0.00     |
| 17   | 2-Methylphenol              | 1.096 | 1.050  | 4.2   | 65    | -0.01    |
| 18   | Hexachloroethane            | 0.611 | 0.556  | 9.0   | 62    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.056 | 0.975  | 7.7   | 63    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.350 | 1.209  | 10.4  | 58    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000  | 0.0   | 63    | 0.00     |
| 22   | Acetophenone                | 0.484 | 0.497  | -2.7  | 64    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.363 | 0.374  | -3.0  | 64    | 0.00     |
| 24   | Nitrobenzene                | 0.378 | 0.389  | -2.9  | 65    | 0.00     |
| 25   | Isophorone                  | 0.602 | 0.578  | 4.0   | 61    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.177 | 0.169  | 4.5   | 57    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.255 | 0.243  | 4.7   | 59    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.408 | 0.399  | 2.2   | 61    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.286 | 0.276  | 3.5   | 59    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.317 | 0.317  | 0.0   | 62    | 0.00     |
| 31   | Naphthalene                 | 0.925 | 0.964  | -4.2  | 66    | 0.00     |
| 32   | Benzoic acid                | 0.182 | 0.125  | 31.3# | 46#   | -0.04    |
| 33   | 4-Chloroaniline             | 0.407 | 0.394  | 3.2   | 61    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.197 | 0.204  | -3.6  | 65    | 0.00     |
| 35   | Caprolactam                 | 0.085 | 0.074  | 12.9  | 53    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.302 | 0.273  | 9.6   | 56    | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.606 | 0.547  | 9.7   | 57    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000  | 0.0   | 53    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.681 | 0.743  | -9.1  | 57    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.248 | 0.036# | 85.5# | 7#    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.218 | 0.199  | 8.7   | 48#   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.407 | 0.395  | 2.9   | 50#   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.468 | 0.473  | -1.1  | 52    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.452 | 1.606  | -10.6 | 60    | 0.00     |

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|      | Compound                   | AvqRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.787 | 1.933  | -8.2  | 58    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.339 | 1.397  | -4.3  | 55    | 0.00     |
| 47   | 2-Nitroaniline             | 0.405 | 0.425  | -4.9  | 55    | 0.00     |
| 48   | Acenaphthylene             | 1.951 | 1.960  | -0.5  | 53    | 0.00     |
| 49   | Dimethylphthalate          | 1.467 | 1.551  | -5.7  | 57    | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 0.318 | 0.314  | 1.3   | 51    | 0.00     |
| 51 C | Acenaphthene               | 1.157 | 1.121  | 3.1   | 52    | 0.00     |
| 52   | 3-Nitroaniline             | 0.356 | 0.361  | -1.4  | 53    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.103 | 0.018# | 82.5# | 9#    | 0.05     |
| 54   | Dibenzofuran               | 1.734 | 1.729  | 0.3   | 54    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.195 | 0.120  | 38.5# | 31#   | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.397 | 0.379  | 4.5   | 50#   | 0.00     |
| 57   | Fluorene                   | 1.295 | 1.241  | 4.2   | 52    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.380 | 0.382  | -0.5  | 52    | 0.00     |
| 59   | Diethylphthalate           | 1.453 | 1.460  | -0.5  | 54    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 0.683 | 0.687  | -0.6  | 55    | 0.00     |
| 61   | 4-Nitroaniline             | 0.330 | 0.334  | -1.2  | 51    | -0.01    |
| 62   | Azobenzene                 | 1.476 | 1.405  | 4.8   | 50    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0   | 50    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.097 | 0.024  | 75.3# | 12#   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.678 | 0.689  | -1.6  | 52    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.230 | 0.238  | -3.5  | 52    | 0.00     |
| 67   | Hexachlorobenzene          | 0.249 | 0.240  | 3.6   | 48#   | 0.00     |
| 68   | Atrazine                   | 0.212 | 0.199  | 6.1   | 47#   | 0.00     |
| 69 C | Pentachlorophenol          | 0.140 | 0.132  | 5.7   | 46#   | 0.00     |
| 70   | Phenanthrene               | 1.001 | 0.956  | 4.5   | 49#   | 0.00     |
| 71   | Anthracene                 | 1.035 | 1.055  | -1.9  | 52    | 0.00     |
| 72   | Carbazole                  | 1.003 | 1.040  | -3.7  | 52    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.164 | 1.192  | -2.4  | 52    | 0.00     |
| 74 C | Fluoranthene               | 1.046 | 1.145  | -9.5  | 55    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0   | 73    | 0.00     |
| 76   | Benzidine                  | 0.743 | 0.592  | 20.3  | 59    | 0.00     |
| 77   | Pyrene                     | 1.465 | 1.178  | 19.6  | 59    | 0.00     |
| 78 S | Terphenyl-d14              | 1.033 | 0.830  | 19.7  | 61    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.635 | 0.532  | 16.2  | 60    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.104 | 1.064  | 3.6   | 71    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.444 | 0.467  | -5.2  | 75    | 0.00     |
| 82   | Chrysene                   | 1.159 | 1.140  | 1.6   | 71    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.775 | 0.719  | 7.2   | 67    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.225 | 1.384  | -13.0 | 80    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.830 | 0.799  | 3.7   | 73    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0   | 80    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.105 | 1.011  | 8.5   | 76    | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.110 | 1.160 | -4.5 | 79    | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.003 | 0.966 | 3.7  | 77    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.824 | 0.758 | 8.0  | 75    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 0.823 | 0.723 | 12.2 | 70    | 0.00     |

(#) = Out of Range

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