

Data Path : \\74.0.250.170\svoasrv\HPCHEM1\BNA F\Data\BF062217\  
 Data File : BF096138.D  
 Acq On : 23 Jun 2017 00:24  
 Operator : SJ/MA  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 100 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 23 02:01:39 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 20 16:05:47 2017  
 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   | 87    | -0.02    |
| 2    | 1,4-Dioxane                 | 0.597 | 0.744  | -24.6 | 103   | -0.04    |
| 3    | Pyridine                    | 1.403 | 1.564  | -11.5 | 93    | -0.04    |
| 4    | n-Nitrosodimethylamine      | 0.534 | 0.591  | -10.7 | 93    | -0.04    |
| 5 S  | 2-Fluorophenol              | 1.255 | 1.317  | -4.9  | 83    | -0.02    |
| 6    | Aniline                     | 1.966 | 1.990  | -1.2  | 82    | -0.01    |
| 7 S  | Phenol-d6                   | 1.503 | 1.496  | 0.5   | 79    | -0.01    |
| 8    | 2-Chlorophenol              | 1.335 | 1.383  | -3.6  | 83    | -0.01    |
| 9    | Benzaldehyde                | 1.014 | 0.965  | 4.8   | 78    | -0.01    |
| 10 C | Phenol                      | 1.559 | 1.657  | -6.3  | 83    | -0.02    |
| 11   | bis(2-Chloroethyl)ether     | 1.235 | 1.303  | -5.5  | 84    | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.511 | 1.517  | -0.4  | 86    | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 1.532 | 1.581  | -3.2  | 87    | -0.02    |
| 14   | 1,2-Dichlorobenzene         | 1.412 | 1.448  | -2.5  | 86    | -0.01    |
| 15   | Benzyl Alcohol              | 1.031 | 1.073  | -4.1  | 85    | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.735 | 1.825  | -5.2  | 88    | -0.02    |
| 17   | 2-Methylphenol              | 1.120 | 1.180  | -5.4  | 88    | 0.00     |
| 18   | Hexachloroethane            | 0.506 | 0.479  | 5.3   | 79    | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine  | 0.952 | 0.996  | -4.6  | 86    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.422 | 1.590  | -11.8 | 93    | -0.01    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000  | 0.0   | 83    | -0.02    |
| 22   | Acetophenone                | 0.468 | 0.492  | -5.1  | 85    | -0.01    |
| 23 S | Nitrobenzene-d5             | 0.322 | 0.334  | -3.7  | 84    | -0.01    |
| 24   | Nitrobenzene                | 0.344 | 0.358  | -4.1  | 85    | -0.01    |
| 25   | Isophorone                  | 0.601 | 0.614  | -2.2  | 84    | -0.01    |
| 26 C | 2-Nitrophenol               | 0.180 | 0.168  | 6.7   | 74    | -0.01    |
| 27   | 2,4-Dimethylphenol          | 0.280 | 0.298  | -6.4  | 87    | -0.01    |
| 28   | bis(2-Chloroethoxy)methane  | 0.396 | 0.418  | -5.6  | 85    | -0.02    |
| 29 C | 2,4-Dichlorophenol          | 0.269 | 0.272  | -1.1  | 82    | -0.01    |
| 30   | 1,2,4-Trichlorobenzene      | 0.280 | 0.281  | -0.4  | 83    | -0.01    |
| 31   | Naphthalene                 | 1.004 | 1.007  | -0.3  | 84    | -0.02    |
| 32   | Benzoic acid                | 0.161 | 0.111  | 31.1# | 54    | -0.03    |
| 33   | 4-Chloroaniline             | 0.392 | 0.408  | -4.1  | 86    | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.145 | 0.147  | -1.4  | 84    | -0.02    |
| 35   | Caprolactam                 | 0.080 | 0.081  | -1.3  | 79    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.282 | 0.285  | -1.1  | 82    | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.678 | 0.673  | 0.7   | 83    | -0.01    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000  | 0.0   | 82    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.599 | 0.628  | -4.8  | 81    | -0.01    |
| 40 P | Hexachlorocyclopentadiene   | 0.138 | 0.006# | 95.7# | 3#    | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 0.177 | 0.162  | 8.5   | 73    | -0.02    |
| 42 C | 2,4,6-Trichlorophenol       | 0.385 | 0.397  | -3.1  | 78    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.409 | 0.380  | 7.1   | 68    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.437 | 1.442  | -0.3  | 80    | -0.01    |

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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) |
|------|----------------------------|-------|--------|-------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.648 | 1.721  | -4.4  | 82    | -0.01    |
| 46   | 2-Chloronaphthalene        | 1.288 | 1.294  | -0.5  | 78    | -0.01    |
| 47   | 2-Nitroaniline             | 0.377 | 0.400  | -6.1  | 77    | 0.00     |
| 48   | Acenaphthylene             | 2.202 | 2.080  | 5.5   | 72    | -0.02    |
| 49   | Dimethylphthalate          | 1.519 | 1.541  | -1.4  | 78    | -0.01    |
| 50   | 2,6-Dinitrotoluene         | 0.331 | 0.304  | 8.2   | 68    | -0.01    |
| 51 C | Acenaphthene               | 1.272 | 1.244  | 2.2   | 80    | -0.02    |
| 52   | 3-Nitroaniline             | 0.386 | 0.403  | -4.4  | 85    | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 0.160 | 0.019# | 88.1# | 9#    | 0.06     |
| 54   | Dibenzofuran               | 1.790 | 1.758  | 1.8   | 81    | -0.02    |
| 55 P | 4-Nitrophenol              | 0.201 | 0.152  | 24.4  | 57    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.447 | 0.444  | 0.7   | 79    | 0.00     |
| 57   | Fluorene                   | 1.558 | 1.499  | 3.8   | 79    | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.280 | 0.251  | 10.4  | 70    | 0.00     |
| 59   | Diethylphthalate           | 1.461 | 1.518  | -3.9  | 84    | -0.01    |
| 60   | 4-Chlorophenyl-phenylether | 0.677 | 0.665  | 1.8   | 80    | -0.01    |
| 61   | 4-Nitroaniline             | 0.360 | 0.365  | -1.4  | 80    | -0.01    |
| 62   | Azobenzene                 | 1.324 | 1.288  | 2.7   | 79    | -0.01    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000  | 0.0   | 70    | -0.01    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.131 | 0.030  | 77.1# | 15#   | 0.02     |
| 65 c | n-Nitrosodiphenylamine     | 0.719 | 0.806  | -12.1 | 79    | -0.02    |
| 66   | 4-Bromophenyl-phenylether  | 0.208 | 0.230  | -10.6 | 76    | -0.01    |
| 67   | Hexachlorobenzene          | 0.205 | 0.222  | -8.3  | 75    | -0.01    |
| 68   | Atrazine                   | 0.200 | 0.213  | -6.5  | 75    | -0.02    |
| 69 C | Pentachlorophenol          | 0.067 | 0.036  | 46.3# | 37#   | 0.00     |
| 70   | Phenanthrene               | 1.154 | 1.181  | -2.3  | 73    | -0.01    |
| 71   | Anthracene                 | 1.205 | 1.232  | -2.2  | 73    | -0.02    |
| 72   | Carbazole                  | 1.174 | 1.218  | -3.7  | 72    | -0.01    |
| 73   | Di-n-butylphthalate        | 1.249 | 1.457  | -16.7 | 80    | -0.01    |
| 74 C | Fluoranthene               | 1.142 | 1.086  | 4.9   | 66    | -0.01    |
| 75 I | Chrysene-d12               | 1.000 | 1.000  | 0.0   | 66    | 0.00     |
| 76   | Benzidine                  | 0.768 | 0.679  | 11.6  | 57    | 0.00     |
| 77   | Pyrene                     | 1.492 | 1.484  | 0.5   | 66    | 0.00     |
| 78 S | Terphenyl-d14              | 0.806 | 0.814  | -1.0  | 67    | -0.01    |
| 79   | Butylbenzylphthalate       | 0.652 | 0.675  | -3.5  | 66    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.163 | 1.175  | -1.0  | 66    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.413 | 0.438  | -6.1  | 68    | -0.01    |
| 82   | Chrysene                   | 1.162 | 1.187  | -2.2  | 67    | -0.01    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.919 | 0.959  | -4.4  | 67    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.515 | 1.592  | -5.1  | 68    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.994 | 0.958  | 3.6   | 68    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000  | 0.0   | 67    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.252 | 1.208  | 3.5   | 62    | 0.00     |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.197 | 1.323 | -10.5 | 76    | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.151 | 1.184 | -2.9  | 69    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.976 | 0.944 | 3.3   | 69    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 0.995 | 0.897 | 9.8   | 64    | 0.00     |

(#) = Out of Range

SPCC's out = 2 CCC's out = 1