

Data Path : Z:\HPCHEM1\BNA F\Data\BF062516\  
 Data File : BF088367.D  
 Acq On : 25 Jun 2016 10:29  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 26 02:07:13 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 22 14:55:14 2016  
 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  | 76    | 0.01     |
| 2    | 1,4-Dioxane                 | 0.568 | 0.573 | -0.9 | 79    | 0.01     |
| 3    | Pyridine                    | 1.342 | 1.315 | 2.0  | 73    | 0.03     |
| 4    | n-Nitrosodimethylamine      | 0.568 | 0.466 | 18.0 | 63    | 0.01     |
| 5 S  | 2-Fluorophenol              | 1.170 | 1.125 | 3.8  | 75    | 0.01     |
| 6    | Aniline                     | 2.018 | 1.660 | 17.7 | 63    | 0.00     |
| 7 S  | Phenol-d6                   | 1.418 | 1.314 | 7.3  | 74    | 0.00     |
| 8    | 2-Chlorophenol              | 1.385 | 1.395 | -0.7 | 79    | 0.01     |
| 9    | Benzaldehyde                | 0.923 | 0.851 | 7.8  | 75    | 0.01     |
| 10 C | Phenol                      | 1.665 | 1.756 | -5.5 | 96    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.243 | 1.358 | -9.3 | 90    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.486 | 1.439 | 3.2  | 74    | 0.01     |
| 13 C | 1,4-Dichlorobenzene         | 1.497 | 1.538 | -2.7 | 83    | 0.01     |
| 14   | 1,2-Dichlorobenzene         | 1.361 | 1.320 | 3.0  | 73    | 0.01     |
| 15   | Benzyl Alcohol              | 1.109 | 0.990 | 10.7 | 66    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.680 | 1.261 | 24.9 | 57    | 0.01     |
| 17   | 2-Methylphenol              | 1.123 | 1.009 | 10.2 | 67    | 0.00     |
| 18   | Hexachloroethane            | 0.531 | 0.521 | 1.9  | 75    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.907 | 0.949 | -4.6 | 87    | 0.01     |
| 20   | 3+4-Methylphenols           | 1.310 | 1.313 | -0.2 | 83    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 81    | 0.01     |
| 22   | Acetophenone                | 0.447 | 0.459 | -2.7 | 85    | 0.01     |
| 23 S | Nitrobenzene-d5             | 0.343 | 0.317 | 7.6  | 73    | 0.00     |
| 24   | Nitrobenzene                | 0.332 | 0.338 | -1.8 | 89    | 0.01     |
| 25   | Isophorone                  | 0.634 | 0.614 | 3.2  | 76    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.178 | 0.182 | -2.2 | 72    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.327 | 0.281 | 14.1 | 67    | 0.01     |
| 28   | bis(2-Chloroethoxy)methane  | 0.393 | 0.400 | -1.8 | 80    | 0.01     |
| 29 C | 2,4-Dichlorophenol          | 0.273 | 0.274 | -0.4 | 79    | 0.01     |
| 30   | 1,2,4-Trichlorobenzene      | 0.297 | 0.277 | 6.7  | 77    | 0.01     |
| 31   | Naphthalene                 | 0.990 | 0.933 | 5.8  | 80    | 0.01     |
| 32   | Benzoic acid                | 0.180 | 0.153 | 15.0 | 59    | -0.01    |
| 33   | 4-Chloroaniline             | 0.442 | 0.418 | 5.4  | 71    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.157 | 0.140 | 10.8 | 69    | 0.01     |
| 35   | Caprolactam                 | 0.090 | 0.086 | 4.4  | 69    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.292 | 0.296 | -1.4 | 83    | 0.01     |
| 37   | 2-Methylnaphthalene         | 0.652 | 0.589 | 9.7  | 69    | 0.01     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 74    | 0.01     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.583 | 0.568 | 2.6  | 83    | 0.01     |
| 40 P | Hexachlorocyclopentadiene   | 0.323 | 0.344 | -6.5 | 78    | 0.01     |
| 41 S | 2,4,6-Tribromophenol        | 0.211 | 0.181 | 14.2 | 62    | 0.01     |
| 42 C | 2,4,6-Trichlorophenol       | 0.400 | 0.351 | 12.3 | 64    | 0.01     |
| 43   | 2,4,5-Trichlorophenol       | 0.416 | 0.382 | 8.2  | 70    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.502 | 1.328 | 11.6 | 79    | 0.01     |

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

|      | Compound                   | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45   | 1,1'-Biphenyl              | 1.613 | 1.592 | 1.3    | 79    | 0.01     |
| 46   | 2-Chloronaphthalene        | 1.294 | 1.267 | 2.1    | 78    | 0.01     |
| 47   | 2-Nitroaniline             | 0.382 | 0.376 | 1.6    | 67    | 0.01     |
| 48   | Acenaphthylene             | 2.059 | 1.985 | 3.6    | 73    | 0.01     |
| 49   | Dimethylphthalate          | 1.449 | 1.542 | -6.4   | 87    | 0.01     |
| 50   | 2,6-Dinitrotoluene         | 0.332 | 0.313 | 5.7    | 77    | 0.00     |
| 51 C | Acenaphthene               | 1.284 | 1.187 | 7.6    | 69    | 0.01     |
| 52   | 3-Nitroaniline             | 0.383 | 0.367 | 4.2    | 68    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.122 | 0.179 | -46.7# | 79    | 0.01     |
| 54   | Dibenzofuran               | 1.769 | 1.717 | 2.9    | 71    | 0.01     |
| 55 P | 4-Nitrophenol              | 0.297 | 0.337 | -13.5  | 74    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 0.426 | 0.440 | -3.3   | 83    | 0.01     |
| 57   | Fluorene                   | 1.378 | 1.323 | 4.0    | 79    | 0.01     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.327 | 0.316 | 3.4    | 68    | 0.01     |
| 59   | Diethylphthalate           | 1.466 | 1.333 | 9.1    | 71    | 0.01     |
| 60   | 4-Chlorophenyl-phenylether | 0.588 | 0.525 | 10.7   | 72    | 0.01     |
| 61   | 4-Nitroaniline             | 0.363 | 0.372 | -2.5   | 69    | 0.00     |
| 62   | Azobenzene                 | 1.450 | 1.409 | 2.8    | 71    | 0.01     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 76    | 0.01     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.108 | 0.115 | -6.5   | 62    | 0.01     |
| 65 c | n-Nitrosodiphenylamine     | 0.664 | 0.636 | 4.2    | 72    | 0.01     |
| 66   | 4-Bromophenyl-phenylether  | 0.215 | 0.216 | -0.5   | 74    | 0.01     |
| 67   | Hexachlorobenzene          | 0.223 | 0.202 | 9.4    | 75    | 0.01     |
| 68   | Atrazine                   | 0.201 | 0.180 | 10.4   | 62    | 0.01     |
| 69 C | Pentachlorophenol          | 0.118 | 0.123 | -4.2   | 71    | 0.01     |
| 70   | Phenanthrene               | 1.049 | 1.025 | 2.3    | 83    | 0.01     |
| 71   | Anthracene                 | 1.059 | 1.129 | -6.6   | 77    | 0.01     |
| 72   | Carbazole                  | 0.991 | 1.044 | -5.3   | 88    | 0.01     |
| 73   | Di-n-butylphthalate        | 1.254 | 1.231 | 1.8    | 74    | 0.01     |
| 74 C | Fluoranthene               | 1.108 | 1.020 | 7.9    | 68    | 0.01     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 72    | 0.01     |
| 76   | Benzidine                  | 0.554 | 0.440 | 20.6   | 57    | 0.01     |
| 77   | Pyrene                     | 1.484 | 1.482 | 0.1    | 73    | 0.01     |
| 78 S | Terphenyl-d14              | 0.879 | 0.817 | 7.1    | 70    | 0.01     |
| 79   | Butylbenzylphthalate       | 0.656 | 0.778 | -18.6  | 82    | 0.01     |
| 80   | Benzo(a)anthracene         | 1.140 | 1.041 | 8.7    | 72    | 0.02     |
| 81   | 3,3'-Dichlorobenzidine     | 0.306 | 0.327 | -6.9   | 72    | 0.01     |
| 82   | Chrysene                   | 1.072 | 1.171 | -9.2   | 84    | 0.01     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.799 | 0.856 | -7.1   | 79    | 0.01     |
| 84 c | Di-n-octyl phthalate       | 1.298 | 1.542 | -18.8  | 87    | 0.01     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.996 | 0.958 | 3.8    | 70    | 0.01     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 73    | 0.01     |
| 87   | Benzo(b)fluoranthene       | 1.394 | 1.133 | 18.7   | 56    | 0.01     |

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|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.052 | 1.207 | -14.7 | 103   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.128 | 1.097 | 2.7   | 70    | 0.01     |
| 90   | Dibenzo(a,h)anthracene | 1.047 | 0.995 | 5.0   | 69    | 0.01     |
| 91   | Benzo(a,h,i)perylene   | 1.078 | 1.068 | 0.9   | 71    | 0.02     |

(#) = Out of Range

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