

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\  
 Data File : BF088091.D  
 Acq On : 17 Jun 2016 13:07  
 Operator : UM/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Jun 17 17:11:17 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 17 16:09:13 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   | 98    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.568 | 0.594 | -4.6  | 105   | 0.00     |
| 3    | Pyridine                    | 1.342 | 1.530 | -14.0 | 109   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.568 | 0.537 | 5.5   | 93    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.170 | 1.046 | 10.6  | 89    | 0.00     |
| 6    | Aniline                     | 2.018 | 1.694 | 16.1  | 83    | 0.00     |
| 7 S  | Phenol-d6                   | 1.418 | 1.358 | 4.2   | 98    | 0.00     |
| 8    | 2-Chlorophenol              | 1.385 | 1.361 | 1.7   | 99    | 0.00     |
| 9    | Benzaldehyde                | 0.923 | 0.756 | 18.1  | 86    | 0.00     |
| 10 C | Phenol                      | 1.665 | 1.604 | 3.7   | 112   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.243 | 1.301 | -4.7  | 110   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.486 | 1.440 | 3.1   | 95    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.497 | 1.491 | 0.4   | 102   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.361 | 1.224 | 10.1  | 87    | 0.00     |
| 15   | Benzyl Alcohol              | 1.109 | 0.907 | 18.2  | 77    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.680 | 1.607 | 4.3   | 93    | 0.00     |
| 17   | 2-Methylphenol              | 1.123 | 1.040 | 7.4   | 88    | 0.00     |
| 18   | Hexachloroethane            | 0.531 | 0.532 | -0.2  | 97    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 0.907 | 0.766 | 15.5  | 90    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.310 | 1.137 | 13.2  | 92    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 22   | Acetophenone                | 0.447 | 0.409 | 8.5   | 97    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.343 | 0.325 | 5.2   | 97    | 0.00     |
| 24   | Nitrobenzene                | 0.332 | 0.285 | 14.2  | 97    | 0.00     |
| 25   | Isophorone                  | 0.634 | 0.604 | 4.7   | 96    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.178 | 0.192 | -7.9  | 98    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.327 | 0.291 | 11.0  | 89    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.393 | 0.352 | 10.4  | 90    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.273 | 0.251 | 8.1   | 93    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.297 | 0.261 | 12.1  | 94    | 0.00     |
| 31   | Naphthalene                 | 0.990 | 0.891 | 10.0  | 98    | 0.00     |
| 32   | Benzoic acid                | 0.180 | 0.138 | 23.3  | 68    | 0.00     |
| 33   | 4-Chloroaniline             | 0.442 | 0.424 | 4.1   | 93    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.157 | 0.135 | 14.0  | 86    | 0.00     |
| 35   | Caprolactam                 | 0.090 | 0.083 | 7.8   | 87    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.292 | 0.273 | 6.5   | 99    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.652 | 0.550 | 15.6  | 83    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.583 | 0.548 | 6.0   | 98    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.323 | 0.199 | 38.4# | 56    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.211 | 0.154 | 27.0# | 65    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.400 | 0.366 | 8.5   | 81    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.416 | 0.398 | 4.3   | 90    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.502 | 1.251 | 16.7  | 91    | 0.00     |

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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 | 1.410 | 12.6  | 86    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.294 | 1.149 | 11.2  | 87    | 0.00     |
| 47   | 2-Nitroaniline             | 0.382 | 0.382 | 0.0   | 84    | 0.00     |
| 48   | Acenaphthylene             | 2.059 | 1.639 | 20.4  | 74    | 0.00     |
| 49   | Dimethylphthalate          | 1.449 | 1.399 | 3.5   | 97    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.332 | 0.342 | -3.0  | 104   | 0.00     |
| 51 C | Acenaphthene               | 1.284 | 1.004 | 21.8# | 71    | 0.00     |
| 52   | 3-Nitroaniline             | 0.383 | 0.333 | 13.1  | 76    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.122 | 0.091 | 25.4# | 49#   | 0.00     |
| 54   | Dibenzofuran               | 1.769 | 1.387 | 21.6  | 70    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.297 | 0.213 | 28.3# | 57    | 0.00     |
| 56   | 2,4-Dinitrotoluene         | 0.426 | 0.393 | 7.7   | 91    | 0.00     |
| 57   | Fluorene                   | 1.378 | 1.114 | 19.2  | 82    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.327 | 0.313 | 4.3   | 82    | 0.00     |
| 59   | Diethylphthalate           | 1.466 | 1.381 | 5.8   | 90    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.588 | 0.507 | 13.8  | 86    | 0.00     |
| 61   | 4-Nitroaniline             | 0.363 | 0.359 | 1.1   | 82    | 0.00     |
| 62   | Azobenzene                 | 1.450 | 1.354 | 6.6   | 84    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.108 | 0.103 | 4.6   | 68    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.664 | 0.586 | 11.7  | 81    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.215 | 0.185 | 14.0  | 77    | 0.00     |
| 67   | Hexachlorobenzene          | 0.223 | 0.216 | 3.1   | 98    | 0.00     |
| 68   | Atrazine                   | 0.201 | 0.212 | -5.5  | 90    | 0.00     |
| 69 C | Pentachlorophenol          | 0.118 | 0.096 | 18.6  | 67    | 0.00     |
| 70   | Phenanthrene               | 1.049 | 1.036 | 1.2   | 103   | 0.00     |
| 71   | Anthracene                 | 1.059 | 0.904 | 14.6  | 76    | 0.00     |
| 72   | Carbazole                  | 0.991 | 0.889 | 10.3  | 92    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.254 | 1.114 | 11.2  | 82    | 0.00     |
| 74 C | Fluoranthene               | 1.108 | 0.906 | 18.2  | 75    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 76   | Benzidine                  | 0.554 | 0.623 | -12.5 | 86    | 0.00     |
| 77   | Pyrene                     | 1.484 | 1.499 | -1.0  | 79    | 0.00     |
| 78 S | Terphenyl-d14              | 0.879 | 0.779 | 11.4  | 71    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.656 | 0.761 | -16.0 | 86    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.140 | 1.027 | 9.9   | 76    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.306 | 0.356 | -16.3 | 84    | 0.00     |
| 82   | Chrysene                   | 1.072 | 1.095 | -2.1  | 84    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.799 | 0.865 | -8.3  | 86    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.298 | 1.472 | -13.4 | 88    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.996 | 1.073 | -7.7  | 83    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.394 | 1.128 | 19.1  | 67    | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.052 | 1.046 | 0.6  | 108   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.128 | 1.081 | 4.2  | 83    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 1.047 | 0.982 | 6.2  | 83    | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 1.078 | 1.062 | 1.5  | 86    | 0.00     |

(#) = Out of Range

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