

Data Path : Z:\HPCHEM1\BNA F\Data\BF122717\  
 Data File : BF101761.D  
 Acq On : 27 Dec 2017 14:41  
 Operator : SJ/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 28 04:19:55 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 26 10:48:01 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   | 78    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.690 | 0.603 | 12.6  | 68    | 0.00     |
| 3    | Pyridine                    | 1.917 | 1.578 | 17.7  | 63    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.883 | 0.729 | 17.4  | 63    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.343 | 1.370 | -2.0  | 80    | 0.00     |
| 6    | Aniline                     | 2.322 | 2.106 | 9.3   | 72    | 0.00     |
| 7 S  | Phenol-d6                   | 1.671 | 1.538 | 8.0   | 75    | 0.00     |
| 8    | 2-Chlorophenol              | 1.412 | 1.374 | 2.7   | 78    | 0.00     |
| 9    | Benzaldehyde                | 1.234 | 1.024 | 17.0  | 65    | 0.00     |
| 10 C | Phenol                      | 1.905 | 1.758 | 7.7   | 74    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.494 | 1.392 | 6.8   | 74    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.594 | 1.548 | 2.9   | 77    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.628 | 1.614 | 0.9   | 80    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.465 | 1.440 | 1.7   | 78    | 0.00     |
| 15   | Benzyl Alcohol              | 1.150 | 1.080 | 6.1   | 76    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.286 | 2.110 | 7.7   | 72    | 0.00     |
| 17   | 2-Methylphenol              | 1.299 | 1.180 | 9.2   | 75    | 0.00     |
| 18   | Hexachloroethane            | 0.566 | 0.536 | 5.3   | 75    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.097 | 1.024 | 6.7   | 79    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.377 | 1.490 | -8.2  | 86    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 22   | Acetophenone                | 0.456 | 0.461 | -1.1  | 80    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.359 | 0.346 | 3.6   | 74    | 0.00     |
| 24   | Nitrobenzene                | 0.398 | 0.373 | 6.3   | 74    | 0.00     |
| 25   | Isophorone                  | 0.721 | 0.655 | 9.2   | 73    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.171 | 0.193 | -12.9 | 84    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.290 | 0.285 | 1.7   | 78    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.458 | 0.435 | 5.0   | 76    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.287 | 0.298 | -3.8  | 81    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.303 | 0.297 | 2.0   | 77    | 0.00     |
| 31   | Naphthalene                 | 1.007 | 0.976 | 3.1   | 78    | 0.00     |
| 32   | Benzoic acid                | 0.173 | 0.199 | -15.0 | 92    | 0.00     |
| 33   | 4-Chloroaniline             | 0.438 | 0.418 | 4.6   | 77    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.175 | 0.180 | -2.9  | 81    | 0.00     |
| 35   | Caprolactam                 | 0.100 | 0.095 | 5.0   | 74    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.315 | 0.314 | 0.3   | 78    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.656 | 0.637 | 2.9   | 78    | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.675 | 0.668 | 1.0   | 81    | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.088 | 0.077 | 12.5  | 73    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.193 | 0.209 | -8.3  | 87    | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.407 | 0.399 | 2.0   | 77    | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.445 | 0.402 | 9.7   | 71    | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.289 | 1.268 | 1.6   | 80    | 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              | 1.774 | 1.695 | 4.5    | 80    | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.357 | 1.286 | 5.2    | 79    | 0.00     |
| 47   | 2-Nitroaniline             | 0.469 | 0.459 | 2.1    | 78    | 0.00     |
| 48   | Acenaphthylene             | 2.144 | 2.021 | 5.7    | 79    | 0.00     |
| 49   | Dimethylphthalate          | 1.609 | 1.484 | 7.8    | 77    | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.327 | 0.321 | 1.8    | 77    | 0.00     |
| 51 C | Acenaphthene               | 1.288 | 1.233 | 4.3    | 80    | 0.00     |
| 52   | 3-Nitroaniline             | 0.408 | 0.415 | -1.7   | 80    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.087 | 0.127 | -46.0# | 114   | 0.01     |
| 54   | Dibenzofuran               | 1.637 | 1.734 | -5.9   | 85    | 0.00     |
| 55 P | 4-Nitrophenol              | 0.178 | 0.150 | 15.7   | 64    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 0.368 | 0.444 | -20.7  | 95    | 0.00     |
| 57   | Fluorene                   | 1.385 | 1.429 | -3.2   | 83    | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.320 | 0.354 | -10.6  | 88    | 0.00     |
| 59   | Diethylphthalate           | 1.593 | 1.555 | 2.4    | 83    | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.664 | 0.702 | -5.7   | 84    | 0.00     |
| 61   | 4-Nitroaniline             | 0.410 | 0.406 | 1.0    | 79    | 0.00     |
| 62   | Azobenzene                 | 1.650 | 1.501 | 9.0    | 77    | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.102 | 0.118 | -15.7  | 91    | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.738 | 0.690 | 6.5    | 81    | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.225 | 0.223 | 0.9    | 84    | 0.00     |
| 67   | Hexachlorobenzene          | 0.238 | 0.232 | 2.5    | 83    | 0.00     |
| 68   | Atrazine                   | 0.220 | 0.213 | 3.2    | 82    | 0.00     |
| 69 C | Pentachlorophenol          | 0.079 | 0.067 | 15.2   | 70    | 0.00     |
| 70   | Phenanthrene               | 1.112 | 1.055 | 5.1    | 83    | 0.00     |
| 71   | Anthracene                 | 1.136 | 1.092 | 3.9    | 84    | 0.00     |
| 72   | Carbazole                  | 1.064 | 1.032 | 3.0    | 84    | 0.00     |
| 73   | Di-n-butylphthalate        | 1.291 | 1.286 | 0.4    | 87    | 0.00     |
| 74 C | Fluoranthene               | 1.167 | 1.139 | 2.4    | 85    | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 76   | Benzidine                  | 0.845 | 0.977 | -15.6  | 101   | 0.00     |
| 77   | Pyrene                     | 1.501 | 1.437 | 4.3    | 86    | 0.00     |
| 78 S | Terphenyl-d14              | 0.830 | 0.786 | 5.3    | 88    | 0.00     |
| 79   | Butylbenzylphthalate       | 0.679 | 0.677 | 0.3    | 87    | 0.00     |
| 80   | Benzo(a)anthracene         | 1.321 | 1.236 | 6.4    | 84    | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.431 | 0.416 | 3.5    | 85    | 0.01     |
| 82   | Chrysene                   | 1.247 | 1.198 | 3.9    | 86    | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.860 | 0.820 | 4.7    | 85    | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.534 | 1.497 | 2.4    | 87    | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.110 | 1.015 | 8.6    | 84    | 0.02     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 87    | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.219 | 1.109 | 9.0    | 79    | 0.01     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.185 | 1.128 | 4.8  | 88    | 0.01     |
| 89 C | Benzo(a)pyrene         | 1.124 | 1.039 | 7.6  | 83    | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.965 | 0.881 | 8.7  | 84    | 0.02     |
| 91   | Benzo(a,h,i)perylene   | 0.955 | 0.874 | 8.5  | 84    | 0.02     |

(#) = Out of Range

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