

Data Path : Z:\HPCHEM1\BNA F\Data\BF120115\  
 Data File : BF083377.D  
 Acq On : 1 Dec 2015 17:25  
 Operator : UM/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 02 03:28:07 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 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  | 105   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.722 | 0.649 | 10.1 | 98    | 0.00     |
| 3    | Pyridine                    | 1.805 | 1.598 | 11.5 | 101   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.889 | 0.894 | -0.6 | 97    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.333 | 1.261 | 5.4  | 98    | 0.00     |
| 6    | Aniline                     | 2.496 | 2.299 | 7.9  | 99    | 0.00     |
| 7 S  | Phenol-d6                   | 1.824 | 1.741 | 4.6  | 100   | 0.00     |
| 8    | 2-Chlorophenol              | 1.470 | 1.423 | 3.2  | 99    | 0.00     |
| 9    | Benzaldehyde                | 0.920 | 0.862 | 6.3  | 102   | 0.00     |
| 10 C | Phenol                      | 2.195 | 2.056 | 6.3  | 99    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.597 | 1.516 | 5.1  | 102   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.634 | 1.562 | 4.4  | 100   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.689 | 1.629 | 3.6  | 100   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.550 | 1.384 | 10.7 | 99    | 0.00     |
| 15   | Benzyl Alcohol              | 1.410 | 1.386 | 1.7  | 100   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.802 | 2.678 | 4.4  | 100   | 0.00     |
| 17   | 2-Methylphenol              | 1.225 | 1.198 | 2.2  | 102   | 0.00     |
| 18   | Hexachloroethane            | 0.587 | 0.549 | 6.5  | 101   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.304 | 1.352 | -3.7 | 105   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.660 | 1.579 | 4.9  | 101   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 104   | 0.00     |
| 22   | Acetophenone                | 0.598 | 0.582 | 2.7  | 101   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.455 | 0.427 | 6.2  | 100   | 0.00     |
| 24   | Nitrobenzene                | 0.486 | 0.459 | 5.6  | 101   | 0.00     |
| 25   | Isophorone                  | 0.881 | 0.868 | 1.5  | 104   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.198 | 0.185 | 6.6  | 101   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.332 | 0.335 | -0.9 | 101   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.502 | 0.469 | 6.6  | 102   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.320 | 0.303 | 5.3  | 102   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.348 | 0.332 | 4.6  | 102   | 0.00     |
| 31   | Naphthalene                 | 1.085 | 1.013 | 6.6  | 103   | 0.00     |
| 32   | Benzoic acid                | 0.229 | 0.251 | -9.6 | 109   | 0.01     |
| 33   | 4-Chloroaniline             | 0.468 | 0.468 | 0.0  | 101   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.198 | 0.187 | 5.6  | 104   | 0.00     |
| 35   | Caprolactam                 | 0.101 | 0.107 | -5.9 | 108   | 0.01     |
| 36 C | 4-Chloro-3-methylphenol     | 0.359 | 0.359 | 0.0  | 108   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.725 | 0.693 | 4.4  | 103   | 0.00     |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 108   | 0.00     |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.634 | 0.578 | 8.8  | 104   | 0.00     |
| 40 P | Hexachlorocyclopentadiene   | 0.301 | 0.258 | 14.3 | 93    | 0.00     |
| 41 S | 2,4,6-Tribromophenol        | 0.201 | 0.198 | 1.5  | 111   | 0.00     |
| 42 C | 2,4,6-Trichlorophenol       | 0.445 | 0.437 | 1.8  | 107   | 0.00     |
| 43   | 2,4,5-Trichlorophenol       | 0.461 | 0.449 | 2.6  | 104   | 0.00     |
| 44 S | 2-Fluorobiphenyl            | 1.403 | 1.247 | 11.1 | 103   | 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              | 1.754 | 1.631 | 7.0   | 104   | 0.00     |
| 46   | 2-Chloronaphthalene        | 1.336 | 1.221 | 8.6   | 104   | 0.00     |
| 47   | 2-Nitroaniline             | 0.529 | 0.535 | -1.1  | 105   | 0.00     |
| 48   | Acenaphthylene             | 2.132 | 1.960 | 8.1   | 105   | 0.00     |
| 49   | Dimethylphthalate          | 1.625 | 1.462 | 10.0  | 110   | 0.00     |
| 50   | 2,6-Dinitrotoluene         | 0.347 | 0.312 | 10.1  | 99    | 0.00     |
| 51 C | Acenaphthene               | 1.254 | 1.123 | 10.4  | 104   | 0.00     |
| 52   | 3-Nitroaniline             | 0.407 | 0.385 | 5.4   | 98    | 0.00     |
| 53 P | 2,4-Dinitrophenol          | 0.187 | 0.172 | 8.0   | 93    | 0.00     |
| 54   | Dibenzofuran               | 1.838 | 1.665 | 9.4   | 107   | 0.00     |
| 55 P | 4-Nitrophenol              | 0.254 | 0.206 | 18.9  | 88    | 0.01     |
| 56   | 2,4-Dinitrotoluene         | 0.440 | 0.410 | 6.8   | 105   | 0.00     |
| 57   | Fluorene                   | 1.451 | 1.289 | 11.2  | 103   | 0.00     |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.372 | 0.359 | 3.5   | 108   | 0.00     |
| 59   | Diethylphthalate           | 1.549 | 1.435 | 7.4   | 105   | 0.00     |
| 60   | 4-Chlorophenyl-phenylether | 0.667 | 0.646 | 3.1   | 108   | 0.00     |
| 61   | 4-Nitroaniline             | 0.407 | 0.393 | 3.4   | 99    | 0.00     |
| 62   | Azobenzene                 | 1.872 | 1.879 | -0.4  | 108   | 0.00     |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 109   | 0.00     |
| 64   | 4,6-Dinitro-2-methylphenol | 0.134 | 0.134 | 0.0   | 100   | 0.00     |
| 65 c | n-Nitrosodiphenylamine     | 0.703 | 0.683 | 2.8   | 105   | 0.00     |
| 66   | 4-Bromophenyl-phenylether  | 0.219 | 0.218 | 0.5   | 110   | 0.00     |
| 67   | Hexachlorobenzene          | 0.242 | 0.236 | 2.5   | 108   | 0.00     |
| 68   | Atrazine                   | 0.194 | 0.189 | 2.6   | 117   | 0.01     |
| 69 C | Pentachlorophenol          | 0.127 | 0.125 | 1.6   | 104   | 0.00     |
| 70   | Phenanthrene               | 1.184 | 1.136 | 4.1   | 106   | 0.00     |
| 71   | Anthracene                 | 1.192 | 1.146 | 3.9   | 107   | 0.00     |
| 72   | Carbazole                  | 1.071 | 0.988 | 7.7   | 103   | 0.00     |
| 73   | Di-n-butylphthalate        | 1.269 | 1.272 | -0.2  | 114   | 0.00     |
| 74 C | Fluoranthene               | 1.227 | 1.167 | 4.9   | 107   | 0.00     |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 108   | 0.00     |
| 76   | Benzidine                  | 0.596 | 0.584 | 2.0   | 107   | 0.00     |
| 77   | Pyrene                     | 1.397 | 1.305 | 6.6   | 105   | 0.00     |
| 78 S | Terphenyl-d14              | 0.839 | 0.776 | 7.5   | 108   | 0.00     |
| 79   | Butylbenzylphthalate       | 0.593 | 0.587 | 1.0   | 114   | 0.00     |
| 80   | Benzo(a)anthracene         | 1.225 | 1.145 | 6.5   | 105   | 0.00     |
| 81   | 3,3'-Dichlorobenzidine     | 0.383 | 0.383 | 0.0   | 108   | 0.01     |
| 82   | Chrysene                   | 1.184 | 1.096 | 7.4   | 108   | 0.00     |
| 83   | Bis(2-ethylhexyl)phthalate | 0.795 | 0.839 | -5.5  | 122   | 0.00     |
| 84 c | Di-n-octyl phthalate       | 1.184 | 1.359 | -14.8 | 124   | 0.00     |
| 85   | Indeno(1,2,3-cd)pyrene     | 0.862 | 0.828 | 3.9   | 110   | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 114   | 0.00     |
| 87   | Benzo(b)fluoranthene       | 1.283 | 1.181 | 8.0   | 110   | 0.01     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.212 | 1.164 | 4.0  | 115   | 0.00     |
| 89 C | Benzo(a)pyrene         | 1.102 | 1.062 | 3.6  | 113   | 0.00     |
| 90   | Dibenzo(a,h)anthracene | 0.960 | 0.878 | 8.5  | 110   | 0.00     |
| 91   | Benzo(a,h,i)perylene   | 0.943 | 0.824 | 12.6 | 107   | 0.00     |

(#) = Out of Range

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