

Data Path : Z:\HPCHEM1\BNA F\Data\BF121515\  
 Data File : BF083802.D  
 Acq On : 15 Dec 2015 7:18  
 Operator : UM/IZ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Dec 15 07:51:52 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 14 01:30:12 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   | 92    | -0.02    |
| 2    | 1,4-Dioxane                 | 0.599 | 0.563 | 6.0   | 80    | -0.07    |
| 3    | Pyridine                    | 1.508 | 1.562 | -3.6  | 85    | -0.06    |
| 4    | n-Nitrosodimethylamine      | 0.571 | 0.541 | 5.3   | 80    | -0.06    |
| 5 S  | 2-Fluorophenol              | 1.240 | 1.274 | -2.7  | 92    | -0.02    |
| 6    | Aniline                     | 2.133 | 2.118 | 0.7   | 85    | -0.02    |
| 7 S  | Phenol-d6                   | 1.570 | 1.515 | 3.5   | 85    | -0.01    |
| 8    | 2-Chlorophenol              | 1.457 | 1.400 | 3.9   | 79    | -0.02    |
| 9    | Benzaldehyde                | 0.843 | 0.794 | 5.8   | 78    | -0.02    |
| 10 C | Phenol                      | 1.807 | 1.730 | 4.3   | 82    | -0.01    |
| 11   | bis(2-Chloroethyl)ether     | 1.309 | 1.347 | -2.9  | 95    | -0.02    |
| 12   | 1,3-Dichlorobenzene         | 1.546 | 1.547 | -0.1  | 83    | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 1.562 | 1.628 | -4.2  | 93    | -0.02    |
| 14   | 1,2-Dichlorobenzene         | 1.404 | 1.349 | 3.9   | 78    | -0.03    |
| 15   | Benzyl Alcohol              | 1.153 | 1.129 | 2.1   | 78    | -0.02    |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.699 | 1.568 | 7.7   | 80    | -0.02    |
| 17   | 2-Methylphenol              | 1.171 | 1.201 | -2.6  | 86    | -0.02    |
| 18   | Hexachloroethane            | 0.555 | 0.557 | -0.4  | 86    | -0.03    |
| 19 P | n-Nitroso-di-n-propylamine  | 0.961 | 1.005 | -4.6  | 98    | -0.02    |
| 20   | 3+4-Methylphenols           | 1.383 | 1.290 | 6.7   | 84    | -0.02    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 94    | -0.02    |
| 22   | Acetophenone                | 0.491 | 0.444 | 9.6   | 79    | -0.02    |
| 23 S | Nitrobenzene-d5             | 0.357 | 0.366 | -2.5  | 90    | -0.02    |
| 24   | Nitrobenzene                | 0.372 | 0.344 | 7.5   | 84    | -0.02    |
| 25   | Isophorone                  | 0.701 | 0.665 | 5.1   | 83    | -0.02    |
| 26 C | 2-Nitrophenol               | 0.179 | 0.208 | -16.2 | 107   | -0.02    |
| 27   | 2,4-Dimethylphenol          | 0.351 | 0.321 | 8.5   | 81    | -0.02    |
| 28   | bis(2-Chloroethoxy)methane  | 0.400 | 0.423 | -5.7  | 97    | -0.02    |
| 29 C | 2,4-Dichlorophenol          | 0.288 | 0.294 | -2.1  | 92    | -0.02    |
| 30   | 1,2,4-Trichlorobenzene      | 0.299 | 0.309 | -3.3  | 94    | -0.02    |
| 31   | Naphthalene                 | 1.043 | 1.065 | -2.1  | 93    | -0.02    |
| 32   | Benzoic acid                | 0.219 | 0.252 | -15.1 | 102   | 0.00     |
| 33   | 4-Chloroaniline             | 0.426 | 0.452 | -6.1  | 87    | -0.01    |
| 34 C | Hexachlorobutadiene         | 0.164 | 0.168 | -2.4  | 90    | -0.02    |
| 35   | Caprolactam                 | 0.093 | 0.094 | -1.1  | 90    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol     | 0.337 | 0.364 | -8.0  | 90    | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.655 | 0.641 | 2.1   | 89    | -0.02    |
| 38 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 94    | -0.02    |
| 39   | 1,2,4,5-Tetrachlorobenzene  | 0.590 | 0.649 | -10.0 | 103   | -0.02    |
| 40 P | Hexachlorocyclopentadiene   | 0.299 | 0.323 | -8.0  | 90    | -0.02    |
| 41 S | 2,4,6-Tribromophenol        | 0.204 | 0.224 | -9.8  | 103   | -0.02    |
| 42 C | 2,4,6-Trichlorophenol       | 0.432 | 0.425 | 1.6   | 89    | -0.02    |
| 43   | 2,4,5-Trichlorophenol       | 0.410 | 0.460 | -12.2 | 93    | -0.01    |
| 44 S | 2-Fluorobiphenyl            | 1.406 | 1.278 | 9.1   | 85    | -0.02    |

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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              | 1.773 | 1.877 | -5.9   | 97    | -0.02    |
| 46   | 2-Chloronaphthalene        | 1.308 | 1.413 | -8.0   | 100   | -0.02    |
| 47   | 2-Nitroaniline             | 0.371 | 0.431 | -16.2  | 90    | -0.01    |
| 48   | Acenaphthylene             | 2.201 | 2.099 | 4.6    | 88    | -0.02    |
| 49   | Dimethylphthalate          | 1.559 | 1.538 | 1.3    | 92    | -0.02    |
| 50   | 2,6-Dinitrotoluene         | 0.331 | 0.358 | -8.2   | 98    | -0.02    |
| 51 C | Acenaphthene               | 1.331 | 1.273 | 4.4    | 87    | -0.02    |
| 52   | 3-Nitroaniline             | 0.382 | 0.456 | -19.4  | 95    | -0.01    |
| 53 P | 2,4-Dinitrophenol          | 0.109 | 0.166 | -52.3# | 125   | -0.01    |
| 54   | Dibenzofuran               | 1.763 | 1.698 | 3.7    | 90    | -0.02    |
| 55 P | 4-Nitrophenol              | 0.283 | 0.294 | -3.9   | 78    | -0.01    |
| 56   | 2,4-Dinitrotoluene         | 0.432 | 0.465 | -7.6   | 97    | -0.02    |
| 57   | Fluorene                   | 1.389 | 1.357 | 2.3    | 95    | -0.02    |
| 58   | 2,3,4,6-Tetrachlorophenol  | 0.307 | 0.326 | -6.2   | 96    | -0.02    |
| 59   | Diethylphthalate           | 1.579 | 1.564 | 0.9    | 88    | -0.02    |
| 60   | 4-Chlorophenyl-phenylether | 0.633 | 0.637 | -0.6   | 86    | -0.02    |
| 61   | 4-Nitroaniline             | 0.336 | 0.361 | -7.4   | 96    | -0.01    |
| 62   | Azobenzene                 | 1.439 | 1.406 | 2.3    | 84    | -0.02    |
| 63 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 101   | -0.02    |
| 64   | 4,6-Dinitro-2-methylphenol | 0.114 | 0.140 | -22.8  | 102   | -0.01    |
| 65 c | n-Nitrosodiphenylamine     | 0.684 | 0.690 | -0.9   | 92    | -0.01    |
| 66   | 4-Bromophenyl-phenylether  | 0.224 | 0.209 | 6.7    | 90    | -0.02    |
| 67   | Hexachlorobenzene          | 0.242 | 0.227 | 6.2    | 92    | -0.02    |
| 68   | Atrazine                   | 0.195 | 0.222 | -13.8  | 96    | -0.01    |
| 69 C | Pentachlorophenol          | 0.136 | 0.148 | -8.8   | 95    | -0.01    |
| 70   | Phenanthrene               | 1.062 | 1.087 | -2.4   | 102   | -0.02    |
| 71   | Anthracene                 | 1.103 | 1.048 | 5.0    | 89    | -0.02    |
| 72   | Carbazole                  | 1.028 | 1.072 | -4.3   | 95    | -0.01    |
| 73   | Di-n-butylphthalate        | 1.249 | 1.166 | 6.6    | 94    | -0.02    |
| 74 C | Fluoranthene               | 1.098 | 1.122 | -2.2   | 93    | -0.02    |
| 75 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 114   | -0.02    |
| 76   | Benzidine                  | 0.609 | 0.780 | -28.1# | 116   | -0.01    |
| 77   | Pyrene                     | 1.581 | 1.450 | 8.3    | 99    | -0.02    |
| 78 S | Terphenyl-d14              | 0.930 | 0.795 | 14.5   | 98    | -0.02    |
| 79   | Butylbenzylphthalate       | 0.678 | 0.697 | -2.8   | 99    | -0.02    |
| 80   | Benzo(a)anthracene         | 1.137 | 1.118 | 1.7    | 105   | -0.02    |
| 81   | 3,3'-Dichlorobenzidine     | 0.410 | 0.448 | -9.3   | 111   | -0.01    |
| 82   | Chrysene                   | 1.109 | 1.030 | 7.1    | 99    | -0.02    |
| 83   | Bis(2-ethylhexyl)phthalate | 0.772 | 0.752 | 2.6    | 98    | -0.02    |
| 84 c | Di-n-octyl phthalate       | 1.227 | 1.252 | -2.0   | 105   | -0.02    |
| 85   | Indeno(1,2,3-cd)pyrene     | 1.089 | 1.042 | 4.3    | 107   | -0.03    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 122   | -0.02    |
| 87   | Benzo(b)fluoranthene       | 1.276 | 1.517 | -18.9  | 139   | -0.02    |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(k)fluoranthene   | 1.156 | 0.976 | 15.6 | 84    | -0.02    |
| 89 C | Benzo(a)pyrene         | 1.139 | 1.164 | -2.2 | 114   | -0.02    |
| 90   | Dibenzo(a,h)anthracene | 1.132 | 1.077 | 4.9  | 104   | -0.02    |
| 91   | Benzo(a,h,i)perylene   | 1.164 | 1.120 | 3.8  | 105   | -0.03    |

(#) = Out of Range

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