

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF110918\  
 Data File : BF110615.D  
 Acq On : 9 Nov 2018 9:29  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Nov 09 15:48:17 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 09 15:13:13 2018  
 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                 | 0.613 | 0.617 | -0.7 | 104   | 0.00     |
| 3    | Pyridine                    | 1.324 | 1.405 | -6.1 | 103   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.568 | 0.590 | -3.9 | 103   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.231 | 1.256 | -2.0 | 103   | 0.00     |
| 6    | Aniline                     | 2.053 | 2.033 | 1.0  | 104   | 0.00     |
| 7 S  | Phenol-d6                   | 1.575 | 1.576 | -0.1 | 104   | 0.00     |
| 8    | 2-Chlorophenol              | 1.443 | 1.437 | 0.4  | 103   | 0.00     |
| 9    | Benzaldehyde                | 0.893 | 0.842 | 5.7  | 101   | 0.00     |
| 10 C | Phenol                      | 1.826 | 1.814 | 0.7  | 102   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.368 | 1.349 | 1.4  | 103   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.579 | 1.568 | 0.7  | 102   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.604 | 1.567 | 2.3  | 102   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.492 | 1.480 | 0.8  | 104   | 0.00     |
| 15   | Benzyl Alcohol              | 1.232 | 1.238 | -0.5 | 103   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.149 | 2.121 | 1.3  | 102   | 0.00     |
| 17   | 2-Methylphenol              | 1.149 | 1.134 | 1.3  | 103   | 0.00     |
| 18   | Hexachloroethane            | 0.592 | 0.579 | 2.2  | 101   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.005 | 0.994 | 1.1  | 104   | 0.00     |
| 20   | 3+4-Methylphenols           | 1.475 | 1.463 | 0.8  | 104   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 22   | Acetophenone                | 0.466 | 0.467 | -0.2 | 102   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.347 | 0.353 | -1.7 | 103   | 0.00     |
| 24   | Nitrobenzene                | 0.356 | 0.358 | -0.6 | 102   | 0.00     |
| 25   | Isophorone                  | 0.569 | 0.568 | 0.2  | 103   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.178 | 0.185 | -3.9 | 103   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.270 | 0.274 | -1.5 | 103   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.385 | 0.382 | 0.8  | 101   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.278 | 0.285 | -2.5 | 102   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.314 | 0.315 | -0.3 | 101   | 0.00     |
| 31   | Naphthalene                 | 0.939 | 0.932 | 0.7  | 102   | 0.00     |
| 32   | Benzoic acid                | 0.191 | 0.208 | -8.9 | 103   | 0.00     |
| 33   | 4-Chloroaniline             | 0.425 | 0.415 | 2.4  | 103   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.179 | 0.176 | 1.7  | 101   | 0.00     |
| 35   | Caprolactam                 | 0.093 | 0.095 | -2.2 | 103   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.300 | 0.304 | -1.3 | 102   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.615 | 0.613 | 0.3  | 102   | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.592 | 0.591 | 0.2  | 102   | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.633 | 0.634 | -0.2 | 101   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.203 | 0.195 | 3.9  | 92    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.202 | 0.195 | 3.5  | 98    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.398 | 0.398 | 0.0  | 99    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.424 | 0.425 | -0.2 | 100   | 0.00     |

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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 S | 2-Fluorobiphenyl           | 1.400 | 1.360 | 2.9  | 100   | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.866 | 1.841 | 1.3  | 101   | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.344 | 1.332 | 0.9  | 102   | 0.00     |
| 48   | 2-Nitroaniline             | 0.414 | 0.415 | -0.2 | 100   | 0.00     |
| 49   | Acenaphthylene             | 1.936 | 1.907 | 1.5  | 100   | 0.00     |
| 50   | Dimethylphthalate          | 1.492 | 1.427 | 4.4  | 98    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.328 | 0.322 | 1.8  | 99    | 0.00     |
| 52 C | Acenaphthene               | 1.223 | 1.190 | 2.7  | 100   | 0.00     |
| 53   | 3-Nitroaniline             | 0.380 | 0.382 | -0.5 | 102   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.116 | 0.113 | 2.6  | 93    | 0.00     |
| 55   | Dibenzofuran               | 1.790 | 1.736 | 3.0  | 99    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.252 | 0.252 | 0.0  | 97    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.427 | 0.427 | 0.0  | 100   | 0.00     |
| 58   | Fluorene                   | 1.375 | 1.329 | 3.3  | 100   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.334 | 0.334 | 0.0  | 101   | 0.00     |
| 60   | Diethylphthalate           | 1.476 | 1.409 | 4.5  | 99    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.712 | 0.691 | 2.9  | 99    | 0.00     |
| 62   | 4-Nitroaniline             | 0.383 | 0.376 | 1.8  | 99    | 0.00     |
| 63   | Azobenzene                 | 1.440 | 1.404 | 2.5  | 99    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.101 | 0.097 | 4.0  | 92    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.674 | 0.678 | -0.6 | 100   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.221 | 0.217 | 1.8  | 98    | 0.00     |
| 68   | Hexachlorobenzene          | 0.233 | 0.233 | 0.0  | 100   | 0.00     |
| 69   | Atrazine                   | 0.206 | 0.193 | 6.3  | 93    | 0.00     |
| 70 C | Pentachlorophenol          | 0.124 | 0.127 | -2.4 | 97    | 0.00     |
| 71   | Phenanthrene               | 1.071 | 1.059 | 1.1  | 100   | 0.00     |
| 72   | Anthracene                 | 1.081 | 1.069 | 1.1  | 99    | 0.00     |
| 73   | Carbazole                  | 1.038 | 1.043 | -0.5 | 100   | 0.00     |
| 74   | Di-n-butylphthalate        | 1.217 | 1.187 | 2.5  | 96    | 0.00     |
| 75 C | Fluoranthene               | 1.074 | 1.066 | 0.7  | 100   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 102   | 0.00     |
| 77   | Benzidine                  | 0.550 | 0.509 | 7.5  | 98    | 0.00     |
| 78   | Pyrene                     | 1.540 | 1.495 | 2.9  | 100   | 0.00     |
| 79 S | Terphenyl-d14              | 1.068 | 1.012 | 5.2  | 100   | 0.00     |
| 80   | Butylbenzylphthalate       | 0.663 | 0.649 | 2.1  | 98    | 0.00     |
| 81   | Benzo(a)anthracene         | 1.195 | 1.185 | 0.8  | 102   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.400 | 0.392 | 2.0  | 102   | 0.00     |
| 83   | Chrysene                   | 1.139 | 1.126 | 1.1  | 105   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.822 | 0.807 | 1.8  | 101   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.209 | 1.219 | -0.8 | 107   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 0.817 | 0.744 | 8.9  | 96    | 0.00     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0  | 98    | 0.00     |

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|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.196 | 1.231 | -2.9 | 98    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.182 | 1.256 | -6.3 | 108   | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.087 | 1.095 | -0.7 | 99    | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 0.920 | 0.914 | 0.7  | 95    | -0.01    |
| 92   | Benzo(q,h,i)perylene   | 0.913 | 0.914 | -0.1 | 95    | 0.00     |

(#) = Out of Range

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