

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031919\  
 Data File : BF113123.D  
 Acq On : 19 Mar 2019 14:04  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Mar 19 15:17:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 85    | -0.01    |
| 2    | 1,4-Dioxane                 | 0.644 | 0.525 | 18.5   | 70    | -0.05    |
| 3    | Pyridine                    | 1.724 | 1.448 | 16.0   | 72    | -0.05    |
| 4    | n-Nitrosodimethylamine      | 0.754 | 0.649 | 13.9   | 72    | -0.05    |
| 5 S  | 2-Fluorophenol              | 1.286 | 1.129 | 12.2   | 76    | 0.00     |
| 6    | Aniline                     | 2.223 | 1.895 | 14.8   | 72    | -0.01    |
| 7 S  | Phenol-d6                   | 1.615 | 1.428 | 11.6   | 77    | 0.00     |
| 8    | 2-Chlorophenol              | 1.431 | 1.442 | -0.8   | 87    | 0.00     |
| 9    | Benzaldehyde                | 1.164 | 1.011 | 13.1   | 75    | -0.01    |
| 10 C | Phenol                      | 1.885 | 1.678 | 11.0   | 75    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.447 | 1.443 | 0.3    | 86    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.479 | 1.596 | -7.9   | 94    | -0.01    |
| 13 C | 1,4-Dichlorobenzene         | 1.483 | 1.508 | -1.7   | 88    | -0.01    |
| 14   | 1,2-Dichlorobenzene         | 1.359 | 1.444 | -6.3   | 93    | 0.00     |
| 15   | Benzyl Alcohol              | 1.232 | 1.173 | 4.8    | 81    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.414 | 2.163 | 10.4   | 77    | -0.01    |
| 17   | 2-Methylphenol              | 1.161 | 1.096 | 5.6    | 82    | 0.00     |
| 18   | Hexachloroethane            | 0.568 | 0.602 | -6.0   | 91    | -0.01    |
| 19 P | n-Nitroso-di-n-propylamine  | 1.023 | 1.059 | -3.5   | 90    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.311 | 1.418 | -8.2   | 95    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 22   | Acetophenone                | 0.468 | 0.492 | -5.1   | 99    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.334 | 0.353 | -5.7   | 98    | 0.00     |
| 24   | Nitrobenzene                | 0.372 | 0.368 | 1.1    | 92    | 0.00     |
| 25   | Isophorone                  | 0.720 | 0.689 | 4.3    | 92    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.155 | 0.201 | -29.7# | 115   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.288 | 0.281 | 2.4    | 94    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.450 | 0.434 | 3.6    | 93    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.279 | 0.301 | -7.9   | 101   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.300 | 0.319 | -6.3   | 102   | -0.01    |
| 31   | Naphthalene                 | 0.993 | 0.978 | 1.5    | 95    | -0.01    |
| 32   | Benzoic acid                | 0.202 | 0.226 | -11.9  | 105   | 0.01     |
| 33   | 4-Chloroaniline             | 0.421 | 0.410 | 2.6    | 93    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.169 | 0.194 | -14.8  | 109   | -0.01    |
| 35   | Caprolactam                 | 0.098 | 0.097 | 1.0    | 92    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.309 | 0.300 | 2.9    | 91    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.641 | 0.591 | 7.8    | 89    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.621 | 0.529 | 14.8   | 82    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 84    | -0.01    |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.583 | 0.635 | -8.9   | 92    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.319 | 0.339 | -6.3   | 87    | -0.01    |
| 42 S | 2,4,6-Tribromophenol        | 0.212 | 0.254 | -19.8  | 99    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.401 | 0.419 | -4.5   | 86    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.434 | 0.455 | -4.8   | 87    | 0.00     |

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 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.353 | 1.298 | 4.1    | 88    | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.631 | 1.666 | -2.1   | 85    | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.274 | 1.249 | 2.0    | 84    | 0.00     |
| 48   | 2-Nitroaniline             | 0.387 | 0.404 | -4.4   | 82    | 0.00     |
| 49   | Acenaphthylene             | 2.162 | 2.059 | 4.8    | 82    | 0.00     |
| 50   | Dimethylphthalate          | 1.475 | 1.530 | -3.7   | 89    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.307 | 0.340 | -10.7  | 88    | 0.00     |
| 52 C | Acenaphthene               | 1.265 | 1.167 | 7.7    | 79    | -0.01    |
| 53   | 3-Nitroaniline             | 0.374 | 0.375 | -0.3   | 80    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.108 | 0.174 | -61.1# | 131   | 0.00     |
| 55   | Dibenzofuran               | 1.838 | 1.776 | 3.4    | 84    | -0.01    |
| 56 P | 4-Nitrophenol              | 0.304 | 0.285 | 6.3    | 73    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.382 | 0.441 | -15.4  | 90    | 0.00     |
| 58   | Fluorene                   | 1.304 | 1.332 | -2.1   | 88    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.361 | 0.387 | -7.2   | 88    | 0.00     |
| 60   | Diethylphthalate           | 1.558 | 1.505 | 3.4    | 83    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.607 | 0.679 | -11.9  | 96    | 0.00     |
| 62   | 4-Nitroaniline             | 0.346 | 0.380 | -9.8   | 90    | 0.00     |
| 63   | Azobenzene                 | 1.595 | 1.407 | 11.8   | 75    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.076 | 0.113 | -48.7# | 121   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.641 | 0.620 | 3.3    | 83    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.211 | 0.232 | -10.0  | 95    | 0.00     |
| 68   | Hexachlorobenzene          | 0.237 | 0.263 | -11.0  | 96    | 0.00     |
| 69   | Atrazine                   | 0.196 | 0.181 | 7.7    | 80    | 0.00     |
| 70 C | Pentachlorophenol          | 0.140 | 0.146 | -4.3   | 85    | 0.00     |
| 71   | Phenanthrene               | 0.995 | 0.987 | 0.8    | 84    | 0.00     |
| 72   | Anthracene                 | 1.042 | 1.003 | 3.7    | 84    | 0.00     |
| 73   | Carbazole                  | 1.016 | 0.957 | 5.8    | 83    | 0.00     |
| 74   | Di-n-butylphthalate        | 1.218 | 1.206 | 1.0    | 87    | 0.00     |
| 75 C | Fluoranthene               | 1.066 | 1.070 | -0.4   | 85    | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 77   | Benzidine                  | 1.038 | 0.642 | 38.2#  | 57    | 0.00     |
| 78   | Pyrene                     | 1.686 | 1.496 | 11.3   | 83    | 0.00     |
| 79 S | Terphenyl-d14              | 1.032 | 0.984 | 4.7    | 92    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.744 | 0.693 | 6.9    | 85    | 0.00     |
| 81   | Benzo(a)anthracene         | 1.386 | 1.154 | 16.7   | 77    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.524 | 0.463 | 11.6   | 80    | 0.00     |
| 83   | Chrysene                   | 1.358 | 1.203 | 11.4   | 83    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.873 | 0.877 | -0.5   | 94    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.499 | 1.492 | 0.5    | 93    | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.158 | 1.064 | 8.1    | 92    | 0.00     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 88    | 0.00     |

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|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.294 | 1.305 | -0.9 | 83    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.172 | 1.070 | 8.7  | 85    | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.144 | 1.110 | 3.0  | 85    | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 0.976 | 1.010 | -3.5 | 95    | 0.00     |
| 92   | Benzo(g,h,i)perylene   | 0.980 | 0.988 | -0.8 | 92    | 0.00     |

(#) = Out of Range

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