

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF081419\  
 Data File : BF116260.D  
 Acq On : 14 Aug 2019 13:30  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 14 16:34:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 118   | -0.02    |
| 2    | 1,4-Dioxane                 | 0.604 | 0.570 | 5.6   | 114   | -0.05    |
| 3    | Pyridine                    | 1.686 | 1.382 | 18.0  | 98    | -0.04    |
| 4    | n-Nitrosodimethylamine      | 0.665 | 0.427 | 35.8# | 76    | -0.07    |
| 5 S  | 2-Fluorophenol              | 1.195 | 1.249 | -4.5  | 122   | -0.02    |
| 6    | Aniline                     | 2.159 | 2.031 | 5.9   | 109   | -0.02    |
| 7 S  | Phenol-d6                   | 1.507 | 1.569 | -4.1  | 122   | -0.01    |
| 8    | 2-Chlorophenol              | 1.321 | 1.418 | -7.3  | 125   | -0.02    |
| 9    | Benzaldehyde                | 1.040 | 0.990 | 4.8   | 111   | -0.02    |
| 10 C | Phenol                      | 1.775 | 1.795 | -1.1  | 118   | -0.02    |
| 11   | bis(2-Chloroethyl)ether     | 1.305 | 1.479 | -13.3 | 133   | -0.02    |
| 12   | 1,3-Dichlorobenzene         | 1.527 | 1.604 | -5.0  | 123   | -0.02    |
| 13 C | 1,4-Dichlorobenzene         | 1.529 | 1.603 | -4.8  | 122   | -0.02    |
| 14   | 1,2-Dichlorobenzene         | 1.408 | 1.455 | -3.3  | 118   | -0.02    |
| 15   | Benzyl Alcohol              | 1.144 | 1.150 | -0.5  | 115   | -0.01    |
| 16   | 2,2'-oxybis(1-Chloropropane | 1.780 | 1.883 | -5.8  | 122   | -0.02    |
| 17   | 2-Methylphenol              | 1.119 | 1.197 | -7.0  | 127   | -0.02    |
| 18   | Hexachloroethane            | 0.563 | 0.610 | -8.3  | 126   | -0.02    |
| 19 P | n-Nitroso-di-n-propylamine  | 0.934 | 0.985 | -5.5  | 125   | -0.02    |
| 20   | 3+4-Methylphenols           | 1.324 | 1.390 | -5.0  | 120   | -0.01    |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 123   | -0.02    |
| 22   | Acetophenone                | 0.439 | 0.442 | -0.7  | 123   | -0.02    |
| 23 S | Nitrobenzene-d5             | 0.346 | 0.351 | -1.4  | 123   | -0.02    |
| 24   | Nitrobenzene                | 0.374 | 0.384 | -2.7  | 125   | -0.02    |
| 25   | Isophorone                  | 0.663 | 0.719 | -8.4  | 133   | -0.02    |
| 26 C | 2-Nitrophenol               | 0.176 | 0.195 | -10.8 | 134   | -0.02    |
| 27   | 2,4-Dimethylphenol          | 0.265 | 0.274 | -3.4  | 125   | -0.02    |
| 28   | bis(2-Chloroethoxy)methane  | 0.411 | 0.443 | -7.8  | 132   | -0.02    |
| 29 C | 2,4-Dichlorophenol          | 0.280 | 0.301 | -7.5  | 129   | -0.02    |
| 30   | 1,2,4-Trichlorobenzene      | 0.319 | 0.332 | -4.1  | 126   | -0.02    |
| 31   | Naphthalene                 | 0.941 | 0.977 | -3.8  | 124   | -0.02    |
| 32   | Benzoic acid                | 0.187 | 0.225 | -20.3 | 161#  | 0.00     |
| 33   | 4-Chloroaniline             | 0.421 | 0.394 | 6.4   | 113   | -0.02    |
| 34 C | Hexachlorobutadiene         | 0.184 | 0.191 | -3.8  | 126   | -0.02    |
| 35   | Caprolactam                 | 0.091 | 0.092 | -1.1  | 124   | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.291 | 0.309 | -6.2  | 130   | -0.01    |
| 37   | 2-Methylnaphthalene         | 0.620 | 0.632 | -1.9  | 122   | -0.02    |
| 38   | 1-Methylnaphthalene         | 0.586 | 0.609 | -3.9  | 125   | -0.02    |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 122   | -0.02    |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.535 | 0.560 | -4.7  | 126   | -0.02    |
| 41 P | Hexachlorocyclopentadiene   | 0.209 | 0.237 | -13.4 | 133   | -0.02    |
| 42 S | 2,4,6-Tribromophenol        | 0.194 | 0.200 | -3.1  | 124   | -0.02    |
| 43 C | 2,4,6-Trichlorophenol       | 0.368 | 0.365 | 0.8   | 120   | -0.02    |
| 44   | 2,4,5-Trichlorophenol       | 0.380 | 0.384 | -1.1  | 122   | -0.02    |

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF081419\  
 Data File : BF116260.D  
 Acq On : 14 Aug 2019 13:30  
 Operator : HP/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 LabSampleId :  
 SSTDCCC040

Quant Time: Aug 14 16:34:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 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                   | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.068 | 1.053 | 1.4    | 117   | -0.02    |
| 46   | 1,1'-Biphenyl              | 1.412 | 1.443 | -2.2   | 123   | -0.02    |
| 47   | 2-Chloronaphthalene        | 1.175 | 1.193 | -1.5   | 122   | -0.02    |
| 48   | 2-Nitroaniline             | 0.388 | 0.392 | -1.0   | 122   | -0.02    |
| 49   | Acenaphthylene             | 1.715 | 1.708 | 0.4    | 119   | -0.02    |
| 50   | Dimethylphthalate          | 1.362 | 1.429 | -4.9   | 127   | -0.02    |
| 51   | 2,6-Dinitrotoluene         | 0.296 | 0.311 | -5.1   | 127   | -0.02    |
| 52 C | Acenaphthene               | 1.052 | 1.061 | -0.9   | 120   | -0.02    |
| 53   | 3-Nitroaniline             | 0.366 | 0.359 | 1.9    | 119   | -0.02    |
| 54 P | 2,4-Dinitrophenol          | 0.126 | 0.132 | -4.8   | 124   | -0.01    |
| 55   | Dibenzofuran               | 1.530 | 1.456 | 4.8    | 113   | -0.02    |
| 56 P | 4-Nitrophenol              | 0.234 | 0.219 | 6.4    | 112   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.394 | 0.364 | 7.6    | 110   | -0.02    |
| 58   | Fluorene                   | 1.177 | 1.182 | -0.4   | 120   | -0.02    |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.320 | 0.315 | 1.6    | 119   | -0.02    |
| 60   | Diethylphthalate           | 1.271 | 1.375 | -8.2   | 129   | -0.02    |
| 61   | 4-Chlorophenyl-phenylether | 0.596 | 0.606 | -1.7   | 120   | -0.02    |
| 62   | 4-Nitroaniline             | 0.378 | 0.333 | 11.9   | 106   | -0.01    |
| 63   | Azobenzene                 | 1.308 | 1.365 | -4.4   | 125   | -0.02    |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 119   | -0.02    |
| 65   | 4,6-Dinitro-2-methylphenol | 0.106 | 0.123 | -16.0  | 134   | -0.02    |
| 66 c | n-Nitrosodiphenylamine     | 0.602 | 0.638 | -6.0   | 125   | -0.02    |
| 67   | 4-Bromophenyl-phenylether  | 0.214 | 0.231 | -7.9   | 126   | -0.02    |
| 68   | Hexachlorobenzene          | 0.248 | 0.258 | -4.0   | 122   | -0.02    |
| 69   | Atrazine                   | 0.198 | 0.177 | 10.6   | 105   | -0.02    |
| 70 C | Pentachlorophenol          | 0.120 | 0.125 | -4.2   | 119   | -0.02    |
| 71   | Phenanthrene               | 1.022 | 1.032 | -1.0   | 118   | -0.02    |
| 72   | Anthracene                 | 1.035 | 1.043 | -0.8   | 118   | -0.02    |
| 73   | Carbazole                  | 0.939 | 0.955 | -1.7   | 118   | -0.02    |
| 74   | Di-n-butylphthalate        | 1.095 | 1.209 | -10.4  | 126   | -0.02    |
| 75 C | Fluoranthene               | 1.070 | 1.065 | 0.5    | 117   | -0.02    |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 88    | -0.02    |
| 77   | Benzidine                  | 0.676 | 0.693 | -2.5   | 84    | -0.02    |
| 78   | Pyrene                     | 1.508 | 1.937 | -28.4# | 115   | -0.02    |
| 79 S | Terphenyl-d14              | 0.949 | 1.207 | -27.2# | 113   | -0.02    |
| 80   | Butylbenzylphthalate       | 0.638 | 0.917 | -43.7# | 124   | -0.02    |
| 81   | Benzo(a)anthracene         | 1.278 | 1.469 | -14.9  | 100   | -0.02    |
| 82   | 3,3'-Dichlorobenzidine     | 0.444 | 0.561 | -26.4# | 108   | -0.02    |
| 83   | Chrysene                   | 1.241 | 1.532 | -23.4  | 107   | -0.02    |
| 84   | Bis(2-ethylhexyl)phthalate | 0.829 | 1.254 | -51.3# | 130   | -0.02    |
| 85 c | Di-n-octyl phthalate       | 1.316 | 1.891 | -43.7# | 121   | -0.02    |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.042 | 1.274 | -22.3  | 112   | -0.02    |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 99    | -0.02    |

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF081419\  
Data File : BF116260.D  
Acq On : 14 Aug 2019 13:30  
Operator : HP/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_F  
LabSampleId :  
SSTDCCC040

Quant Time: Aug 14 16:34:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 11:13:18 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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.156 | 0.946 | 18.2  | 77    | -0.02    |
| 89   | Benzo(k)fluoranthene   | 1.126 | 1.207 | -7.2  | 110   | -0.02    |
| 90 C | Benzo(a)pyrene         | 1.034 | 0.797 | 22.9# | 76    | -0.02    |
| 91   | Dibenzo(a,h)anthracene | 0.895 | 0.994 | -11.1 | 113   | -0.03    |
| 92   | Benzo(g,h,i)perylene   | 0.879 | 1.008 | -14.7 | 121   | -0.03    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 2