

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF121418\  
 Data File : BF111414.D  
 Acq On : 14 Dec 2018 13:06  
 Operator : JU/SJ  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF121418

Quant Time: Dec 14 13:34:37 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 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  | 93    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.580 | 0.560 | 3.4  | 87    | 0.00     |
| 3    | Pyridine                    | 1.458 | 1.491 | -2.3 | 92    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.662 | 0.683 | -3.2 | 90    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.202 | 1.224 | -1.8 | 94    | 0.00     |
| 6    | Aniline                     | 1.983 | 1.920 | 3.2  | 92    | 0.00     |
| 7 S  | Phenol-d6                   | 1.599 | 1.553 | 2.9  | 93    | 0.00     |
| 8    | 2-Chlorophenol              | 1.436 | 1.417 | 1.3  | 92    | 0.00     |
| 9    | Benzaldehyde                | 0.970 | 0.900 | 7.2  | 92    | 0.00     |
| 10 C | Phenol                      | 1.781 | 1.744 | 2.1  | 93    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.396 | 1.378 | 1.3  | 94    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.581 | 1.530 | 3.2  | 93    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.605 | 1.556 | 3.1  | 92    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.509 | 1.460 | 3.2  | 92    | 0.00     |
| 15   | Benzyl Alcohol              | 1.216 | 1.198 | 1.5  | 93    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.726 | 2.672 | 2.0  | 93    | 0.00     |
| 17   | 2-Methylphenol              | 1.156 | 1.107 | 4.2  | 91    | 0.00     |
| 18   | Hexachloroethane            | 0.597 | 0.576 | 3.5  | 93    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.055 | 1.001 | 5.1  | 92    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.450 | 1.395 | 3.8  | 92    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0  | 91    | 0.00     |
| 22   | Acetophenone                | 0.446 | 0.454 | -1.8 | 92    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.336 | 0.347 | -3.3 | 93    | 0.00     |
| 24   | Nitrobenzene                | 0.343 | 0.345 | -0.6 | 91    | 0.00     |
| 25   | Isophorone                  | 0.568 | 0.565 | 0.5  | 92    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.178 | 0.182 | -2.2 | 91    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.258 | 0.263 | -1.9 | 93    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.392 | 0.389 | 0.8  | 92    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.275 | 0.275 | 0.0  | 92    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.288 | 0.283 | 1.7  | 93    | 0.00     |
| 31   | Naphthalene                 | 0.935 | 0.915 | 2.1  | 92    | 0.00     |
| 32   | Benzoic acid                | 0.223 | 0.229 | -2.7 | 91    | 0.00     |
| 33   | 4-Chloroaniline             | 0.416 | 0.398 | 4.3  | 91    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.159 | 0.160 | -0.6 | 92    | 0.00     |
| 35   | Caprolactam                 | 0.102 | 0.100 | 2.0  | 91    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.303 | 0.300 | 1.0  | 93    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.633 | 0.601 | 5.1  | 93    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.612 | 0.575 | 6.0  | 92    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0  | 91    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.548 | 0.534 | 2.6  | 92    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.282 | 0.292 | -3.5 | 92    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.179 | 0.173 | 3.4  | 90    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.388 | 0.383 | 1.3  | 92    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.413 | 0.409 | 1.0  | 92    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF121418\  
 Data File : BF111414.D  
 Acq On : 14 Dec 2018 13:06  
 Operator : JU/SJ  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ICVBF121418

Quant Time: Dec 14 13:34:37 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 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) |
|------|----------------------------|-------|-------|------|-------|----------|
| 45 S | 2-Fluorobiphenyl           | 1.295 | 1.279 | 1.2  | 94    | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.695 | 1.651 | 2.6  | 92    | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.288 | 1.258 | 2.3  | 92    | 0.00     |
| 48   | 2-Nitroaniline             | 0.418 | 0.409 | 2.2  | 92    | 0.00     |
| 49   | Acenaphthylene             | 1.912 | 1.875 | 1.9  | 92    | 0.00     |
| 50   | Dimethylphthalate          | 1.440 | 1.419 | 1.5  | 93    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.324 | 0.325 | -0.3 | 94    | 0.00     |
| 52 C | Acenaphthene               | 1.208 | 1.180 | 2.3  | 93    | 0.00     |
| 53   | 3-Nitroaniline             | 0.394 | 0.385 | 2.3  | 92    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.123 | 0.119 | 3.3  | 90    | 0.00     |
| 55   | Dibenzofuran               | 1.754 | 1.722 | 1.8  | 93    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.273 | 0.283 | -3.7 | 92    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.426 | 0.428 | -0.5 | 93    | 0.00     |
| 58   | Fluorene                   | 1.272 | 1.242 | 2.4  | 94    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.323 | 0.319 | 1.2  | 94    | 0.00     |
| 60   | Diethylphthalate           | 1.459 | 1.434 | 1.7  | 93    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.623 | 0.607 | 2.6  | 92    | 0.00     |
| 62   | 4-Nitroaniline             | 0.390 | 0.384 | 1.5  | 91    | 0.00     |
| 63   | Azobenzene                 | 1.438 | 1.382 | 3.9  | 91    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 92    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.113 | 0.110 | 2.7  | 91    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.690 | 0.677 | 1.9  | 94    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.216 | 0.206 | 4.6  | 91    | 0.00     |
| 68   | Hexachlorobenzene          | 0.222 | 0.216 | 2.7  | 92    | 0.00     |
| 69   | Atrazine                   | 0.199 | 0.199 | 0.0  | 93    | 0.00     |
| 70 C | Pentachlorophenol          | 0.136 | 0.135 | 0.7  | 92    | 0.00     |
| 71   | Phenanthrene               | 1.031 | 1.009 | 2.1  | 94    | 0.00     |
| 72   | Anthracene                 | 1.054 | 1.029 | 2.4  | 93    | 0.00     |
| 73   | Carbazole                  | 1.090 | 1.068 | 2.0  | 93    | 0.00     |
| 74   | Di-n-butylphthalate        | 1.214 | 1.211 | 0.2  | 93    | 0.00     |
| 75 C | Fluoranthene               | 1.008 | 1.013 | -0.5 | 93    | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 77   | Benzidine                  | 0.735 | 0.647 | 12.0 | 96    | 0.00     |
| 78   | Pyrene                     | 1.410 | 1.325 | 6.0  | 94    | 0.00     |
| 79 S | Terphenyl-d14              | 0.852 | 0.793 | 6.9  | 95    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.687 | 0.649 | 5.5  | 95    | 0.00     |
| 81   | Benzo(a)anthracene         | 1.087 | 1.044 | 4.0  | 98    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.442 | 0.407 | 7.9  | 95    | 0.00     |
| 83   | Chrysene                   | 1.146 | 1.061 | 7.4  | 97    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.878 | 0.844 | 3.9  | 98    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.481 | 1.472 | 0.6  | 101   | 0.00     |
| 86   | Indeno(1,2,3-cd)pyrene     | 0.827 | 0.725 | 12.3 | 104   | 0.01     |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0  | 107   | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF121418\  
Data File : BF111414.D  
Acq On : 14 Dec 2018 13:06  
Operator : JU/SJ  
Sample : SSTDICV040  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
ICVBF121418

Quant Time: Dec 14 13:34:37 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 14 13:26:17 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               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 88   | Benzo(b)fluoranthene   | 1.166 | 1.092 | 6.3  | 98    | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.114 | 1.150 | -3.2 | 116   | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.051 | 1.023 | 2.7  | 108   | 0.01     |
| 91   | Dibenzo(a,h)anthracene | 0.829 | 0.746 | 10.0 | 106   | 0.01     |
| 92   | Benzo(q,h,i)perylene   | 0.814 | 0.699 | 14.1 | 103   | 0.00     |

(#) = Out of Range

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