

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG102618\  
 Data File : BG037613.D  
 Acq On : 27 Oct 2018 12:08  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 29 04:28:24 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 14:06:42 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   | 101   | 0.00     |
| 2    | 1,4-Dioxane                 | 0.607 | 0.607 | 0.0   | 105   | 0.00     |
| 3    | Pyridine                    | 1.529 | 1.548 | -1.2  | 104   | 0.00     |
| 4    | n-Nitrosodimethylamine      | 0.545 | 0.590 | -8.3  | 113   | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.196 | 1.235 | -3.3  | 106   | 0.00     |
| 6    | Aniline                     | 2.207 | 2.215 | -0.4  | 103   | 0.00     |
| 7 S  | Phenol-d6                   | 1.809 | 1.845 | -2.0  | 103   | 0.00     |
| 8    | 2-Chlorophenol              | 1.399 | 1.413 | -1.0  | 103   | 0.00     |
| 9    | Benzaldehyde                | 1.132 | 1.063 | 6.1   | 97    | 0.00     |
| 10 C | Phenol                      | 1.909 | 1.933 | -1.3  | 104   | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.450 | 1.422 | 1.9   | 102   | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.558 | 1.564 | -0.4  | 104   | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.594 | 1.581 | 0.8   | 103   | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.533 | 1.496 | 2.4   | 101   | 0.00     |
| 15   | Benzyl Alcohol              | 1.337 | 1.334 | 0.2   | 100   | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 2.594 | 2.624 | -1.2  | 104   | 0.00     |
| 17   | 2-Methylphenol              | 1.262 | 1.282 | -1.6  | 102   | 0.00     |
| 18   | Hexachloroethane            | 0.543 | 0.562 | -3.5  | 106   | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.246 | 1.226 | 1.6   | 98    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.804 | 1.821 | -0.9  | 102   | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 22   | Acetophenone                | 0.502 | 0.487 | 3.0   | 100   | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.357 | 0.362 | -1.4  | 104   | 0.00     |
| 24   | Nitrobenzene                | 0.371 | 0.377 | -1.6  | 104   | 0.00     |
| 25   | Isophorone                  | 0.652 | 0.649 | 0.5   | 100   | 0.00     |
| 26 C | 2-Nitrophenol               | 0.167 | 0.183 | -9.6  | 109   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.298 | 0.295 | 1.0   | 101   | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.427 | 0.419 | 1.9   | 100   | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.332 | 0.332 | 0.0   | 102   | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.361 | 0.347 | 3.9   | 100   | 0.00     |
| 31   | Naphthalene                 | 0.982 | 0.965 | 1.7   | 103   | 0.00     |
| 32   | Benzoic acid                | 0.194 | 0.231 | -19.1 | 119   | 0.00     |
| 33   | 4-Chloroaniline             | 0.462 | 0.462 | 0.0   | 102   | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.214 | 0.206 | 3.7   | 98    | -0.01    |
| 35   | Caprolactam                 | 0.133 | 0.134 | -0.8  | 100   | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.375 | 0.377 | -0.5  | 103   | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.716 | 0.701 | 2.1   | 100   | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.695 | 0.679 | 2.3   | 102   | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.645 | 0.633 | 1.9   | 101   | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.308 | 0.298 | 3.2   | 96    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.218 | 0.224 | -2.8  | 100   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.431 | 0.444 | -3.0  | 102   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.469 | 0.467 | 0.4   | 99    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG102618\  
 Data File : BG037613.D  
 Acq On : 27 Oct 2018 12:08  
 Operator : JU/SJ  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Oct 29 04:28:24 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 18 14:06:42 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           | 1.326 | 1.282 | 3.3  | 100   | 0.00     |
| 46   | 1,1'-Biphenyl              | 1.656 | 1.620 | 2.2  | 101   | 0.00     |
| 47   | 2-Chloronaphthalene        | 1.253 | 1.231 | 1.8  | 101   | 0.00     |
| 48   | 2-Nitroaniline             | 0.380 | 0.405 | -6.6 | 107   | 0.00     |
| 49   | Acenaphthylene             | 1.885 | 1.871 | 0.7  | 101   | 0.00     |
| 50   | Dimethylphthalate          | 1.547 | 1.541 | 0.4  | 101   | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.342 | 0.354 | -3.5 | 102   | 0.00     |
| 52 C | Acenaphthene               | 1.161 | 1.139 | 1.9  | 102   | 0.00     |
| 53   | 3-Nitroaniline             | 0.380 | 0.396 | -4.2 | 102   | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.100 | 0.097 | 3.0  | 100   | 0.00     |
| 55   | Dibenzofuran               | 1.923 | 1.854 | 3.6  | 100   | 0.00     |
| 56 P | 4-Nitrophenol              | 0.281 | 0.283 | -0.7 | 99    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.449 | 0.486 | -8.2 | 105   | 0.00     |
| 58   | Fluorene                   | 1.440 | 1.392 | 3.3  | 100   | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.402 | 0.399 | 0.7  | 100   | 0.00     |
| 60   | Diethylphthalate           | 1.588 | 1.583 | 0.3  | 102   | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.840 | 0.818 | 2.6  | 100   | 0.00     |
| 62   | 4-Nitroaniline             | 0.378 | 0.394 | -4.2 | 102   | 0.00     |
| 63   | Azobenzene                 | 1.516 | 1.491 | 1.6  | 102   | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.093 | 0.098 | -5.4 | 105   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.602 | 0.597 | 0.8  | 100   | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.220 | 0.216 | 1.8  | 100   | 0.00     |
| 68   | Hexachlorobenzene          | 0.228 | 0.222 | 2.6  | 98    | 0.00     |
| 69   | Atrazine                   | 0.218 | 0.212 | 2.8  | 96    | 0.00     |
| 70 C | Pentachlorophenol          | 0.152 | 0.152 | 0.0  | 97    | 0.00     |
| 71   | Phenanthrene               | 1.016 | 0.987 | 2.9  | 99    | 0.00     |
| 72   | Anthracene                 | 0.998 | 0.990 | 0.8  | 101   | 0.00     |
| 73   | Carbazole                  | 0.998 | 1.001 | -0.3 | 101   | 0.00     |
| 74   | Di-n-butylphthalate        | 1.110 | 1.135 | -2.3 | 101   | 0.00     |
| 75 C | Fluoranthene               | 1.153 | 1.145 | 0.7  | 100   | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 77   | Benzidine                  | 0.680 | 0.543 | 20.1 | 78    | 0.00     |
| 78   | Pyrene                     | 1.307 | 1.304 | 0.2  | 100   | 0.00     |
| 79 S | Terphenyl-d14              | 0.936 | 0.922 | 1.5  | 99    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.535 | 0.578 | -8.0 | 104   | 0.00     |
| 81   | Benzo(a)anthracene         | 1.183 | 1.189 | -0.5 | 101   | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.459 | 0.463 | -0.9 | 98    | 0.00     |
| 83   | Chrysene                   | 1.138 | 1.145 | -0.6 | 101   | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.750 | 0.812 | -8.3 | 104   | -0.01    |
| 85 c | Di-n-octyl phthalate       | 1.223 | 1.334 | -9.1 | 105   | -0.02    |
| 86   | Indeno(1,2,3-cd)pyrene     | 1.220 | 1.187 | 2.7  | 96    | -0.02    |
| 87 I | Perylene-d12               | 1.000 | 1.000 | 0.0  | 104   | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG102618\  
Data File : BG037613.D  
Acq On : 27 Oct 2018 12:08  
Operator : JU/SJ  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC040

Quant Time: Oct 29 04:28:24 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG101818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 18 14:06:42 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   | 1.096 | 1.070 | 2.4  | 100   | 0.00     |
| 89   | Benzo(k)fluoranthene   | 1.074 | 1.078 | -0.4 | 103   | 0.00     |
| 90 C | Benzo(a)pyrene         | 1.042 | 1.037 | 0.5  | 102   | 0.00     |
| 91   | Dibenzo(a,h)anthracene | 0.961 | 0.886 | 7.8  | 93    | 0.00     |
| 92   | Benzo(q,h,i)perylene   | 0.972 | 0.895 | 7.9  | 94    | -0.02    |

(#) = Out of Range

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