Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050118\
Data File : BF105000.D
Acq On : 1 May 2018 22:33
Operator : JU/SJ
Sample : PB108756BSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB108756BSD

Quant Time: May 02 06:56:20 2018
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 01 16:13:08 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.79 | 152 | 118908 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.07 | 136 | 498517 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 9.83 | 164 | 227504 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.32 | 188 | 373194 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 14.01 | 240 | 225000 | 20.00 | ng | | 0.04 |
| 86) Perylene-d12 | 15.56 | 264 | 210181 | 20.00 | ng | | 0.12 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.42 | 112 | 687044 | 88.35 | ng | | 0.01 |
| 7) Phenol-d6 | 6.43 | 99 | 837611 | 87.66 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.36 | 82 | 512200 | 67.09 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.63 | 330 | 199756 | 84.64 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.15 | 172 | 961309 | 66.75 | ng | | 0.00 |
| 78) Terphenyl-d14 | 12.91 | 244 | 739483 | 74.93 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.58 | 88 | 89714 | 24.759 | ng | # | 86 |
| 3) Pyridine | 3.31 | 79 | 249446 | 24.485 | ng | | 86 |
| 4) n-Nitrosodimethylamine | 3.28 | 42 | 95485 | 26.812 | ng | | 79 |
| 6) Aniline | 6.45 | 93 | 102913 | 7.752 | ng | # | 1 |
| 8) 2-Chlorophenol | 6.58 | 128 | 262704 | 32.006 | ng | | 91 |
| 9) Benzaldehyde | 6.34 | 77 | 83370 | 13.497 | ng | | 96 |
| 10) Phenol | 6.45 | 94 | 306832 | 30.265 | ng | | 96 |
| 11) bis(2-Chloroethyl)ether | 6.53 | 93 | 235578 | 29.119 | ng | | 93 |
| 12) 1,3-Dichlorobenzene | 6.73 | 146 | 276566 | 29.743 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.80 | 146 | 282631 | 30.491 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 6.96 | 146 | 262509 | 30.561 | ng | | 99 |
| 15) Benzyl Alcohol | 6.94 | 79 | 202457 | 27.897 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.06 | 45 | 270039 | 24.854 | ng | | 61 |
| 17) 2-Methylphenol | 7.05 | 107 | 213403 | 29.910 | ng | | 95 |
| 18) Hexachloroethane | 7.30 | 117 | 94093 | 28.471 | ng | | 96 |
| 19) n-Nitroso-di-n-propylamine | 7.20 | 70 | 167733 | 26.864 | ng | | 93 |
| 20) 3+4-Methylphenols | 7.21 | 107 | 278423 | 31.465 | ng | # | 85 |
| 22) Acetophenone | 7.20 | 105 | 350623 | 28.568 | ng | # | 98 |
| 24) Nitrobenzene | 7.38 | 77 | 262764 | 31.174 | ng | | 94 |
| 25) Isophorone | 7.62 | 82 | 471595 | 29.211 | ng | | 99 |
| 26) 2-Nitrophenol | 7.69 | 139 | 139083 | 40.532 | ng | | 95 |
| 27) 2,4-Dimethylphenol | 7.73 | 122 | 228898 | 32.126 | ng | | 99 |
| 28) bis(2-Chloroethoxy)methane | 7.82 | 93 | 308219 | 31.226 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 7.94 | 162 | 222035 | 32.661 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 8.02 | 180 | 227015 | 30.428 | ng | | 98 |
| 31) Naphthalene | 8.10 | 128 | 747526 | 30.114 | ng | | 100 |
| 32) Benzoic acid | 7.86 | 122 | 108983 | 19.171 | ng | | 97 |
| 33) 4-Chloroaniline | 8.15 | 127 | 56282 | 5.292 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.20 | 225 | 122523 | 29.982 | ng | | 98 |
| 35) Caprolactam | 8.53 | 113 | 71062 | 29.964 | ng | # | 76 |
| 36) 4-Chloro-3-methylphenol | 8.65 | 107 | 228033 | 31.282 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.79 | 142 | 490292 | 30.534 | ng | | 98 |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.96 | 216 | 217126 | 33.340 | ng | | 98 |
| 40) Hexachlorocyclopentadiene | 8.93 | 237 | 43507 | 11.933 | ng | | 98 |

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050118\
Data File : BF105000.D
Acq On : 1 May 2018 22:33
Operator : JU/SJ
Sample : PB108756BSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB108756BSD

Quant Time: May 02 06:56:20 2018
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 01 16:13:08 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 9.07 | 196 | 141661 | 31.335 | ng | | 97 |
| 43) 2,4,5-Trichlorophenol | 9.12 | 196 | 148687 | 29.391 | ng | | 93 |
| 45) 1,1'-Biphenyl | 9.25 | 154 | 588207 | 30.777 | ng | | 99 |
| 46) 2-Chloronaphthalene | 9.28 | 162 | 456483 | 30.239 | ng | | 99 |
| 47) 2-Nitroaniline | 9.39 | 65 | 133312 | 35.710 | ng | | 86 |
| 48) Acenaphthylene | 9.70 | 152 | 678158 | 28.632 | ng | | 99 |
| 49) Dimethylphthalate | 9.55 | 163 | 550157 | 30.666 | ng | | 100 |
| 50) 2,6-Dinitrotoluene | 9.63 | 165 | 119862 | 36.107 | ng | # | 85 |
| 51) Acenaphthene | 9.87 | 154 | 398937 | 27.606 | ng | | 99 |
| 52) 3-Nitroaniline | 9.79 | 138 | 53466 | 13.757 | ng | | 97 |
| 53) 2,4-Dinitrophenol | 9.91 | 184 | 20501 | 24.703 | ng | # | 21 |
| 54) Dibenzofuran | 10.04 | 168 | 587404 | 29.167 | ng | | 98 |
| 55) 4-Nitrophenol | 9.97 | 139 | 144273 | 47.258 | ng | | 97 |
| 56) 2,4-Dinitrotoluene | 10.03 | 165 | 143835 | 33.032 | ng | | 98 |
| 57) Fluorene | 10.38 | 166 | 469520 | 32.030 | ng | | 100 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.16 | 232 | 110200 | 29.198 | ng | | 92 |
| 59) Diethylphthalate | 10.25 | 149 | 528612 | 29.585 | ng | | 99 |
| 60) 4-Chlorophenyl-phenylether | 10.37 | 204 | 220952 | 33.846 | ng | | 93 |
| 61) 4-Nitroaniline | 10.41 | 138 | 103792 | 27.314 | ng | | 96 |
| 62) Azobenzene | 10.53 | 77 | 461590 | 27.040 | ng | | 93 |
| 64) 4,6-Dinitro-2-methylphenol | 10.45 | 198 | 20329 | 16.820 | ng | # | 79 |
| 65) n-Nitrosodiphenylamine | 10.49 | 169 | 422050 | 32.617 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 10.86 | 248 | 133708 | 33.683 | ng | | 93 |
| 67) Hexachlorobenzene | 10.93 | 284 | 143041 | 32.024 | ng | # | 86 |
| 68) Atrazine | 11.02 | 200 | 134574 | 34.455 | ng | | 100 |
| 69) Pentachlorophenol | 11.13 | 266 | 96230 | 34.825 | ng | | 98 |
| 70) Phenanthrene | 11.35 | 178 | 618154 | 29.743 | ng | | 99 |
| 71) Anthracene | 11.40 | 178 | 638938 | 30.244 | ng | | 99 |
| 72) Carbazole | 11.56 | 167 | 567907 | 27.510 | ng | | 99 |
| 73) Di-n-butylphthalate | 11.88 | 149 | 776090 | 30.776 | ng | | 99 |
| 74) Fluoranthene | 12.54 | 202 | 548494 | 25.260 | ng | | 98 |
| 76) Benzidine | 12.67 | 184 | 254414 | 31.230 | ng | | 98 |
| 77) Pyrene | 12.77 | 202 | 528667 | 31.699 | ng | | 99 |
| 79) Butylbenzylphthalate | 13.39 | 149 | 261959 | 33.340 | ng | | 98 |
| 80) Benzo(a)anthracene | 14.00 | 228 | 445792 | 33.165 | ng | | 98 |
| 81) 3,3'-Dichlorobenzidine | 13.96 | 252 | 143790 | 28.690 | ng | # | 98 |
| 82) Chrysene | 14.04 | 228 | 418292 | 30.296 | ng | | 98 |
| 83) Bis(2-ethylhexyl)phthalate | 13.97 | 149 | 371623 | 36.772 | ng | | 98 |
| 84) Di-n-octyl phthalate | 14.65 | 149 | 571275 | 33.830 | ng | # | 93 |
| 85) Indeno(1,2,3-cd)pyrene | 17.04 | 276 | 351022 | 29.929 | ng | | 96 |
| 87) Benzo(b)fluoranthene | 15.12 | 252 | 433861 | 32.683 | ng | | 99 |
| 88) Benzo(k)fluoranthene | 15.15 | 252 | 379900 | 30.313 | ng | | 99 |
| 89) Benzo(a)pyrene | 15.49 | 252 | 384609 | 32.381 | ng | | 99 |
| 90) Dibenzo(a,h)anthracene | 17.05 | 278 | 303459 | 31.108 | ng | | 97 |
| 91) Benzo(g,h,i)perylene | 17.48 | 276 | 276075 | 29.211 | ng | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050118\
Data File : BF105000.D
Acq On : 1 May 2018 22:33
Operator : JU/SJ
Sample : PB108756BSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB108756BSD

Quant Time: May 02 06:56:20 2018
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 01 16:13:08 2018
Response via : Initial Calibration