Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG092816\
Data File : BG024150.D
Acq On : 28 Sep 2016 17:17
Operator : UM/SJ
Sample : PB93653BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PB93653BS

Quant Time: Sep 29 01:15:03 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG092316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 23 15:35:28 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.04 | 152 | 52202 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.87 | 136 | 239739 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 14.71 | 164 | 197626 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 17.48 | 188 | 441970 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 21.79 | 240 | 472278 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 25.12 | 264 | 467411 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.59 | 112 | 299779 | 99.49 | ng | | 0.00 |
| 7) Phenol-d6 | 7.21 | 99 | 453307 | 89.41 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.22 | 82 | 509537 | 83.77 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.21 | 330 | 221353 | 77.92 | ng | | -0.01 |
| 44) 2-Fluorobiphenyl | 13.32 | 172 | 1040929 | 88.54 | ng | | 0.00 |
| 78) Terphenyl-d14 | 20.09 | 244 | 1669242 | 72.37 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.43 | 88 | 43098 | 37.37 | ng | | 96 |
| 3) Pyridine | 3.84 | 79 | 151715 | 37.22 | ng | | 92 |
| 4) n-Nitrosodimethylamine | 3.76 | 42 | 83385 | 40.36 | ng | # | 82 |
| 6) Aniline | 7.36 | 93 | 236773 | 33.25 | ng | | 94 |
| 8) 2-Chlorophenol | 7.60 | 128 | 161684 | 44.83 | ng | | 89 |
| 9) Benzaldehyde | 7.17 | 77 | 120179 | 43.53 | ng | | 90 |
| 10) Phenol | 7.23 | 94 | 248773 | 46.67 | ng | | 89 |
| 11) bis(2-Chloroethyl)ether | 7.45 | 93 | 171465 | 40.79 | ng | | 87 |
| 12) 1,3-Dichlorobenzene | 7.92 | 146 | 168126 | 41.80 | ng | | 95 |
| 13) 1,4-Dichlorobenzene | 8.07 | 146 | 173753 | 42.33 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 8.39 | 146 | 169825 | 42.51 | ng | | 92 |
| 15) Benzyl Alcohol | 8.29 | 79 | 202033 | 41.17 | ng | | 92 |
| 16) 2,2'-oxybis(1-Chloropropan | 8.56 | 45 | 237733 | 40.96 | ng | | 95 |
| 17) 2-Methylphenol | 8.49 | 107 | 167139 | 47.17 | ng | | 92 |
| 18) Hexachloroethane | 9.12 | 117 | 72049 | 41.66 | ng | | 93 |
| 19) n-Nitroso-di-n-propylamine | 8.85 | 70 | 186437 | 37.44 | ng | | 98 |
| 20) 3+4-Methylphenols | 8.83 | 107 | 226549 | 44.02 | ng | | 98 |
| 22) Acetophenone | 8.87 | 105 | 299853 | 43.35 | ng | # | 97 |
| 24) Nitrobenzene | 9.26 | 77 | 282508 | 43.33 | ng | | 98 |
| 25) Isophorone | 9.78 | 82 | 496707 | 40.03 | ng | | 96 |
| 26) 2-Nitrophenol | 9.97 | 139 | 100554 | 43.48 | ng | # | 87 |
| 27) 2,4-Dimethylphenol | 10.04 | 122 | 179470 | 46.41 | ng | | 95 |
| 28) bis(2-Chloroethoxy)methane | 10.26 | 93 | 262646 | 43.54 | ng | | 97 |
| 29) 2,4-Dichlorophenol | 10.53 | 162 | 201440 | 50.05 | ng | | 97 |
| 30) 1,2,4-Trichlorobenzene | 10.73 | 180 | 187536 | 43.53 | ng | | 95 |
| 31) Naphthalene | 10.91 | 128 | 543654 | 44.77 | ng | | 99 |
| 32) Benzoic acid | 10.22 | 122 | 89096 | 31.46 | ng | | 99 |
| 33) 4-Chloroaniline | 11.05 | 127 | 104723 | 19.32 | ng | | 91 |
| 34) Hexachlorobutadiene | 11.18 | 225 | 140661 | 41.47 | ng | | 95 |
| 35) Caprolactam | 11.83 | 113 | 72211m | 44.11 | ng | | |
| 36) 4-Chloro-3-methylphenol | 12.18 | 107 | 250354 | 44.20 | ng | | 99 |
| 37) 2-Methylnaphthalene | 12.53 | 142 | 426977 | 45.91 | ng | | 96 |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.90 | 216 | 242190 | 41.98 | ng | | 98 |
| 40) Hexachlorocyclopentadiene | 12.86 | 237 | 235626 | 83.96 | ng | | 93 |

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG092816\
Data File : BG024150.D
Acq On : 28 Sep 2016 17:17
Operator : UM/SJ
Sample : PB93653BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** PB93653BS

Quant Time: Sep 29 01:15:03 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG092316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 23 15:35:28 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 13.15 | 196 | 169276 | 45.36 | ng | | 96 |
| 43) 2,4,5-Trichlorophenol | 13.24 | 196 | 171501 | 44.67 | ng | | 95 |
| 45) 1,1'-Biphenyl | 13.53 | 154 | 597587 | 44.22 | ng | | 97 |
| 46) 2-Chloronaphthalene | 13.58 | 162 | 467223 | 46.31 | ng | | 98 |
| 47) 2-Nitroaniline | 13.80 | 65 | 212798 | 45.32 | ng | | 96 |
| 48) Acenaphthylene | 14.43 | 152 | 762526 | 44.51 | ng | | 99 |
| 49) Dimethylphthalate | 14.16 | 163 | 681670 | 44.96 | ng | | 99 |
| 50) 2,6-Dinitrotoluene | 14.29 | 165 | 151226 | 47.48 | ng | | 94 |
| 51) Acenaphthene | 14.77 | 154 | 478743 | 46.08 | ng | | 95 |
| 52) 3-Nitroaniline | 14.64 | 138 | 95440 | 30.01 | ng | | 99 |
| 53) 2,4-Dinitrophenol | 14.86 | 184 | 144072 | 65.67 | ng | | 95 |
| 54) Dibenzofuran | 15.11 | 168 | 777050 | 48.04 | ng | | 99 |
| 55) 4-Nitrophenol | 14.97 | 139 | 182463 | 72.76 | ng | | 94 |
| 56) 2,4-Dinitrotoluene | 15.10 | 165 | 216872 | 44.75 | ng | | 88 |
| 57) Fluorene | 15.77 | 166 | 637388 | 45.27 | ng | | 98 |
| 58) 2,3,4,6-Tetrachlorophenol | 15.35 | 232 | 176091 | 47.49 | ng | | 92 |
| 59) Diethylphthalate | 15.52 | 149 | 719342 | 44.06 | ng | | 98 |
| 60) 4-Chlorophenyl-phenylether | 15.75 | 204 | 335893 | 44.53 | ng | | 96 |
| 61) 4-Nitroaniline | 15.81 | 138 | 131014 | 39.77 | ng | | 88 |
| 62) Azobenzene | 16.04 | 77 | 822792 | 49.60 | ng | | 90 |
| 64) 4,6-Dinitro-2-methylphenol | 15.87 | 198 | 127228 | 41.45 | ng | | 89 |
| 65) n-Nitrosodiphenylamine | 15.97 | 169 | 580888 | 48.05 | ng | | 92 |
| 66) 4-Bromophenyl-phenylether | 16.65 | 248 | 237831 | 46.39 | ng | | 95 |
| 67) Hexachlorobenzene | 16.78 | 284 | 239216 | 41.41 | ng | | 95 |
| 68) Atrazine | 16.92 | 200 | 244875 | 45.88 | ng | | 95 |
| 69) Pentachlorophenol | 17.14 | 266 | 206064 | 69.33 | ng | | 96 |
| 70) Phenanthrene | 17.52 | 178 | 1091894 | 48.50 | ng | | 99 |
| 71) Anthracene | 17.61 | 178 | 1104038 | 47.74 | ng | | 98 |
| 72) Carbazole | 17.89 | 167 | 984020 | 45.71 | ng | | 98 |
| 73) Di-n-butylphthalate | 18.42 | 149 | 1189313 | 42.21 | ng | | 97 |
| 74) Fluoranthene | 19.54 | 202 | 1289329 | 43.87 | ng | | 96 |
| 76) Benzidine | 19.73 | 184 | 489857 | 36.64 | ng | | 98 |
| 77) Pyrene | 19.90 | 202 | 1265618 | 38.38 | ng | | 95 |
| 79) Butylbenzylphthalate | 20.77 | 149 | 535589 | 44.10 | ng | | 97 |
| 80) Benzo(a)anthracene | 21.76 | 228 | 1252522 | 46.59 | ng | | 94 |
| 81) 3,3'-Dichlorobenzidine | 21.68 | 252 | 292522 | 30.36 | ng | # | 99 |
| 82) Chrysene | 21.84 | 228 | 1174283 | 46.47 | ng | | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 21.64 | 149 | 756096 | 52.11 | ng | # | 95 |
| 84) Di-n-octyl phthalate | 22.87 | 149 | 1302729 | 52.04 | ng | | 98 |
| 85) Indeno(1,2,3-cd)pyrene | 28.94 | 276 | 1475202 | 52.35 | ng | # | 100 |
| 87) Benzo(b)fluoranthene | 24.05 | 252 | 1277314 | 46.97 | ng | # | 98 |
| 88) Benzo(k)fluoranthene | 24.12 | 252 | 1254395 | 46.45 | ng | # | 98 |
| 89) Benzo(a)pyrene | 24.96 | 252 | 1246299 | 47.41 | ng | # | 99 |
| 90) Dibenzo(a,h)anthracene | 28.99 | 278 | 1212786 | 46.20 | ng | # | 94 |
| 91) Benzo(g,h,i)perylene | 30.13 | 276 | 1188145 | 44.93 | ng | # | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG092816\
Data File : BG024150.D
Acq On : 28 Sep 2016 17:17
Operator : UM/SJ
Sample : PB93653BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
PB93653BS

Quant Time: Sep 29 01:15:03 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG092316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 23 15:35:28 2016
Response via : Initial Calibration