Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM052217\
Data File : BM010104.D
Acq On : 22 May 2017 16:11
Operator : SJ/MA
Sample : PB99141BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** PB99141BS

Quant Time: May 23 05:27:06 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM051917.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat May 20 04:25:49 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.96 | 152 | 167550 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 10.77 | 136 | 564075 | 20.00 | ng | | -0.01 |
| 38) Acenaphthene-d10 | 14.60 | 164 | 347920 | 20.00 | ng | | -0.01 |
| 63) Phenanthrene-d10 | 17.34 | 188 | 837390 | 20.00 | ng | | -0.01 |
| 75) Chrysene-d12 | 21.50 | 240 | 1285327 | 20.00 | ng | | -0.01 |
| 86) Perylene-d12 | 23.87 | 264 | 1473210 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.55 | 112 | 1212843 | 130.72 | ng | | -0.01 |
| 7) Phenol-d6 | 7.16 | 99 | 1487616 | 124.60 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 9.15 | 82 | 971443 | 92.91 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 16.09 | 330 | 738625 | 139.78 | ng | | -0.01 |
| 44) 2-Fluorobiphenyl | 13.22 | 172 | 2551155 | 94.27 | ng | | -0.01 |
| 78) Terphenyl-d14 | 19.94 | 244 | 4273629 | 75.60 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.44 | 88 | 156918 | 36.81 | ng | # | 100 |
| 3) Pyridine | 3.85 | 79 | 412407 | 36.14 | ng | | 88 |
| 4) n-Nitrosodimethylamine | 3.77 | 42 | 183279 | 44.40 | ng | # | 84 |
| 6) Aniline | 7.32 | 93 | 231994 | 15.68 | ng | | 91 |
| 8) 2-Chlorophenol | 7.54 | 128 | 394736 | 39.10 | ng | | 94 |
| 9) Benzaldehyde | 7.13 | 77 | 106975 | 14.39 | ng | | 88 |
| 10) Phenol | 7.18 | 94 | 497015 | 39.50 | ng | | 91 |
| 11) bis(2-Chloroethyl)ether | 7.40 | 93 | 339558 | 36.21 | ng | | 97 |
| 12) 1,3-Dichlorobenzene | 7.85 | 146 | 470685 | 36.69 | ng | # | 92 |
| 13) 1,4-Dichlorobenzene | 8.00 | 146 | 481966 | 36.57 | ng | | 96 |
| 14) 1,2-Dichlorobenzene | 8.32 | 146 | 465847 | 36.83 | ng | | 95 |
| 15) Benzyl Alcohol | 8.23 | 79 | 374054 | 41.41 | ng | # | 88 |
| 16) 2,2'-oxybis(1-Chloropropan | 8.49 | 45 | 300060 | 32.54 | ng | | 76 |
| 17) 2-Methylphenol | 8.42 | 107 | 327791 | 36.61 | ng | # | 85 |
| 18) Hexachloroethane | 9.04 | 117 | 161325 | 37.77 | ng | # | 74 |
| 19) n-Nitroso-di-n-propylamine | 8.77 | 70 | 315695 | 37.46 | ng | | 92 |
| 20) 3+4-Methylphenols | 8.76 | 107 | 438407 | 36.26 | ng | | 89 |
| 22) Acetophenone | 8.80 | 105 | 590794 | 40.86 | ng | # | 98 |
| 24) Nitrobenzene | 9.20 | 77 | 484680 | 45.00 | ng | | 97 |
| 25) Isophorone | 9.70 | 82 | 759381 | 42.03 | ng | # | 95 |
| 26) 2-Nitrophenol | 9.90 | 139 | 186699 | 41.12 | ng | # | 62 |
| 27) 2,4-Dimethylphenol | 9.95 | 122 | 342783 | 41.81 | ng | # | 80 |
| 28) bis(2-Chloroethoxy)methane | 10.19 | 93 | 444176 | 38.74 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 10.43 | 162 | 417003 | 44.18 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 10.62 | 180 | 499139 | 40.87 | ng | | 94 |
| 31) Naphthalene | 10.83 | 128 | 1150591 | 38.13 | ng | | 99 |
| 32) Benzoic acid | 10.09 | 122 | 214290 | 38.36 | ng | # | 86 |
| 33) 4-Chloroaniline | 10.97 | 127 | 75720 | 6.51 | ng | # | 85 |
| 34) Hexachlorobutadiene | 11.07 | 225 | 341774 | 41.96 | ng | | 95 |
| 35) Caprolactam | 11.77 | 113 | 100464 | 37.10 | ng | # | 84 |
| 36) 4-Chloro-3-methylphenol | 12.07 | 107 | 404465 | 39.57 | ng | | 83 |
| 37) 2-Methylnaphthalene | 12.42 | 142 | 879853 | 40.50 | ng | # | 95 |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.77 | 216 | 571156 | 42.69 | ng | # | 100 |
| 40) Hexachlorocyclopentadiene | 12.74 | 237 | 839593 | 108.69 | ng | | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM052217\
Data File : BM010104.D
Acq On : 22 May 2017 16:11
Operator : SJ/MA
Sample : PB99141BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** PB99141BS

Quant Time: May 23 05:27:06 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM051917.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat May 20 04:25:49 2017
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 13.03 | 196 | 359123 | 45.57 | ng | | 98 |
| 43) 2,4,5-Trichlorophenol | 13.11 | 196 | 384802 | 44.19 | ng | # | 94 |
| 45) 1,1'-Biphenyl | 13.43 | 154 | 1182284 | 41.32 | ng | | 100 |
| 46) 2-Chloronaphthalene | 13.48 | 162 | 944230 | 40.76 | ng | | 96 |
| 47) 2-Nitroaniline | 13.72 | 65 | 248677 | 41.75 | ng | # | 82 |
| 48) Acenaphthylene | 14.33 | 152 | 1441324 | 42.08 | ng | | 100 |
| 49) Dimethylphthalate | 14.06 | 163 | 1195716 | 38.53 | ng | # | 97 |
| 50) 2,6-Dinitrotoluene | 14.19 | 165 | 250628 | 42.53 | ng | | 88 |
| 51) Acenaphthene | 14.66 | 154 | 881406 | 41.39 | ng | | 99 |
| 52) 3-Nitroaniline | 14.55 | 138 | 158300 | 28.90 | ng | # | 79 |
| 53) 2,4-Dinitrophenol | 14.73 | 184 | 312303 | 79.78 | ng | # | 86 |
| 54) Dibenzofuran | 15.00 | 168 | 1500040 | 44.80 | ng | | 97 |
| 55) 4-Nitrophenol | 14.85 | 139 | 362374 | 82.21 | ng | # | 36 |
| 56) 2,4-Dinitrotoluene | 14.97 | 165 | 351611 | 42.17 | ng | # | 82 |
| 57) Fluorene | 15.65 | 166 | 1201585 | 41.27 | ng | | 99 |
| 58) 2,3,4,6-Tetrachlorophenol | 15.22 | 232 | 354382 | 47.78 | ng | # | 100 |
| 59) Diethylphthalate | 15.41 | 149 | 1144690 | 39.01 | ng | | 98 |
| 60) 4-Chlorophenyl-phenylether | 15.63 | 204 | 669870 | 40.98 | ng | | 99 |
| 61) 4-Nitroaniline | 15.71 | 138 | 199796 | 35.93 | ng | # | 33 |
| 62) Azobenzene | 15.93 | 77 | 1107015 | 51.31 | ng | | 91 |
| 64) 4,6-Dinitro-2-methylphenol | 15.72 | 198 | 210994 | 41.24 | ng | | 82 |
| 65) n-Nitrosodiphenylamine | 15.86 | 169 | 1038803 | 41.39 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 16.53 | 248 | 447651 | 41.76 | ng | | 96 |
| 67) Hexachlorobenzene | 16.62 | 284 | 513180 | 39.40 | ng | | 99 |
| 68) Atrazine | 16.80 | 200 | 406800 | 42.75 | ng | | 99 |
| 69) Pentachlorophenol | 16.98 | 266 | 619300 | 86.57 | ng | | 98 |
| 70) Phenanthrene | 17.39 | 178 | 1935414 | 41.31 | ng | | 99 |
| 71) Anthracene | 17.47 | 178 | 1972765 | 42.43 | ng | | 99 |
| 72) Carbazole | 17.76 | 167 | 1722639 | 41.85 | ng | | 98 |
| 73) Di-n-butylphthalate | 18.28 | 149 | 1846807 | 37.84 | ng | # | 98 |
| 74) Fluoranthene | 19.39 | 202 | 2473644 | 40.66 | ng | | 98 |
| 76) Benzidine | 19.59 | 184 | 1150687 | 48.54 | ng | | 99 |
| 77) Pyrene | 19.75 | 202 | 2575176 | 37.37 | ng | | 99 |
| 79) Butylbenzylphthalate | 20.63 | 149 | 919955 | 36.06 | ng | # | 87 |
| 80) Benzo(a)anthracene | 21.49 | 228 | 2963674 | 41.84 | ng | | 99 |
| 81) 3,3'-Dichlorobenzidine | 21.43 | 252 | 871966 | 30.60 | ng | # | 95 |
| 82) Chrysene | 21.54 | 228 | 2695896 | 40.13 | ng | | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 21.37 | 149 | 1370805 | 35.93 | ng | # | 97 |
| 84) Di-n-octyl phthalate | 22.28 | 149 | 2582287 | 37.81 | ng | | 96 |
| 85) Indeno(1,2,3-cd)pyrene | 26.30 | 276 | 4716828 | 47.88 | ng | # | 100 |
| 87) Benzo(b)fluoranthene | 23.14 | 252 | 3632444 | 42.13 | ng | # | 93 |
| 88) Benzo(k)fluoranthene | 23.19 | 252 | 3456399 | 40.92 | ng | # | 95 |
| 89) Benzo(a)pyrene | 23.76 | 252 | 3557307 | 43.30 | ng | # | 97 |
| 90) Dibenzo(a,h)anthracene | 26.31 | 278 | 3976646 | 43.28 | ng | # | 92 |
| 91) Benzo(g,h,i)perylene | 27.06 | 276 | 3885406 | 43.16 | ng | # | 87 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\DATA\BM052217\
Data File : BM010104.D
Acq On : 22 May 2017 16:11
Operator : SJ/MA
Sample : PB99141BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
PB99141BS

Quant Time: May 23 05:27:06 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM051917.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat May 20 04:25:49 2017
Response via : Initial Calibration