Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032918\
Data File : BF104081.D
Acq On : 30 Mar 2018 5:43
Operator : JU/SJ
Sample : PB107808BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB107808BS

Quant Time: Mar 30 06:55:21 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 28 13:41:47 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.97 | 152 | 107203 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.25 | 136 | 439607 | 20.00 | ng | | 0.00 |
| 38) Acenaphthene-d10 | 10.00 | 164 | 195524 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.50 | 188 | 306298 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 14.16 | 240 | 208305 | 20.00 | ng | | 0.00 |
| 86) Perylene-d12 | 15.70 | 264 | 202265 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.60 | 112 | 608055 | 90.45 | ng | | 0.00 |
| 7) Phenol-d6 | 6.60 | 99 | 737794 | 89.21 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.53 | 82 | 665038 | 92.52 | ng | | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.80 | 330 | 174547 | 80.17 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.32 | 172 | 1248204 | 100.67 | ng | | 0.00 |
| 78) Terphenyl-d14 | 13.09 | 244 | 856084 | 94.89 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.89 | 88 | 107345 | 37.025 | ng | # | 88 |
| 3) Pyridine | 3.66 | 79 | 261094 | 35.573 | ng | # | 84 |
| 4) n-Nitrosodimethylamine | 3.64 | 42 | 80953 | 37.106 | ng | # | 76 |
| 6) Aniline | 6.64 | 93 | 265823 | 26.849 | ng | # | 84 |
| 8) 2-Chlorophenol | 6.76 | 128 | 347515 | 47.127 | ng | | 96 |
| 9) Benzaldehyde | 6.53 | 77 | 96051 | 18.982 | ng | | 95 |
| 10) Phenol | 6.62 | 94 | 389774 | 42.535 | ng | | 98 |
| 11) bis(2-Chloroethyl)ether | 6.70 | 93 | 340773 | 43.155 | ng | | 90 |
| 12) 1,3-Dichlorobenzene | 6.91 | 146 | 345313 | 41.659 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.99 | 146 | 395816 | 44.566 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.13 | 146 | 357087 | 44.731 | ng | | 99 |
| 15) Benzyl Alcohol | 7.11 | 79 | 228830 | 42.555 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.23 | 45 | 374341 | 43.514 | ng | | 63 |
| 17) 2-Methylphenol | 7.22 | 107 | 269439 | 44.894 | ng | # | 87 |
| 18) Hexachloroethane | 7.47 | 117 | 110493 | 37.157 | ng | | 96 |
| 19) n-Nitroso-di-n-propylamine | 7.37 | 70 | 218412 | 44.500 | ng | | 91 |
| 20) 3+4-Methylphenols | 7.37 | 107 | 329371 | 43.001 | ng | # | 62 |
| 22) Acetophenone | 7.38 | 105 | 469984 | 44.187 | ng | | 98 |
| 24) Nitrobenzene | 7.56 | 77 | 313923 | 41.506 | ng | | 95 |
| 25) Isophorone | 7.78 | 82 | 621643 | 46.926 | ng | | 99 |
| 26) 2-Nitrophenol | 7.87 | 139 | 154690 | 39.182 | ng | | 91 |
| 27) 2,4-Dimethylphenol | 7.90 | 122 | 303258 | 53.261 | ng | | 99 |
| 28) bis(2-Chloroethoxy)methane | 7.99 | 93 | 399907 | 48.165 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.11 | 162 | 282068 | 47.429 | ng | | 97 |
| 30) 1,2,4-Trichlorobenzene | 8.19 | 180 | 301697 | 44.710 | ng | | 99 |
| 31) Naphthalene | 8.27 | 128 | 1002819 | 46.694 | ng | | 99 |
| 32) Benzoic acid | 8.03 | 122 | 113754 | 27.272 | ng | | 90 |
| 33) 4-Chloroaniline | 8.33 | 127 | 162301 | 17.926 | ng | | 95 |
| 34) Hexachlorobutadiene | 8.37 | 225 | 159452 | 43.424 | ng | | 98 |
| 35) Caprolactam | 8.70 | 113 | 82610 | 43.808 | ng | # | 77 |
| 36) 4-Chloro-3-methylphenol | 8.81 | 107 | 292737 | 46.537 | ng | | 96 |
| 37) 2-Methylnaphthalene | 8.96 | 142 | 628174 | 44.405 | ng | | 99 |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.13 | 216 | 282645 | 47.140 | ng | | 98 |
| 40) Hexachlorocyclopentadiene | 9.10 | 237 | 53516 | 23.072 | ng | | 95 |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032918\
Data File : BF104081.D
Acq On : 30 Mar 2018 5:43
Operator : JU/SJ
Sample : PB107808BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PB107808BS

Quant Time: Mar 30 06:55:21 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 28 13:41:47 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 9.25 | 196 | 168145 | 44.288 | ng | | 98 |
| 43) 2,4,5-Trichlorophenol | 9.29 | 196 | 194369 | 42.400 | ng | | 95 |
| 45) 1,1'-Biphenyl | 9.43 | 154 | 773278 | 46.080 | ng | | 98 |
| 46) 2-Chloronaphthalene | 9.46 | 162 | 595176 | 44.962 | ng | | 98 |
| 47) 2-Nitroaniline | 9.56 | 65 | 171779 | 45.509 | ng | | 97 |
| 48) Acenaphthylene | 9.87 | 152 | 858780 | 42.823 | ng | | 100 |
| 49) Dimethylphthalate | 9.72 | 163 | 701580 | 45.447 | ng | | 99 |
| 50) 2,6-Dinitrotoluene | 9.79 | 165 | 144542 | 43.521 | ng | | 96 |
| 51) Acenaphthene | 10.04 | 154 | 510572 | 44.011 | ng | | 99 |
| 52) 3-Nitroaniline | 9.97 | 138 | 125313 | 32.823 | ng | | 100 |
| 53) 2,4-Dinitrophenol | 10.09 | 184 | 13059 | 13.952 | ng | # | 73 |
| 54) Dibenzofuran | 10.22 | 168 | 748496 | 44.182 | ng | | 97 |
| 55) 4-Nitrophenol | 10.15 | 139 | 148974 | 65.078 | ng | | 94 |
| 56) 2,4-Dinitrotoluene | 10.20 | 165 | 173012 | 40.824 | ng | | 95 |
| 57) Fluorene | 10.56 | 166 | 588261 | 42.095 | ng | | 98 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.33 | 232 | 140331 | 40.859 | ng | | 93 |
| 59) Diethylphthalate | 10.42 | 149 | 661403 | 44.723 | ng | | 98 |
| 60) 4-Chlorophenyl-phenylether | 10.55 | 204 | 288595 | 44.964 | ng | | 96 |
| 61) 4-Nitroaniline | 10.60 | 138 | 136089 | 38.095 | ng | | 92 |
| 62) Azobenzene | 10.70 | 77 | 575072 | 43.004 | ng | | 96 |
| 64) 4,6-Dinitro-2-methylphenol | 10.62 | 198 | 16034 | 8.648 | ng | | 90 |
| 65) n-Nitrosodiphenylamine | 10.67 | 169 | 537950 | 51.859 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 11.04 | 248 | 164822 | 50.297 | ng | # | 88 |
| 67) Hexachlorobenzene | 11.10 | 284 | 171716 | 45.554 | ng | | 96 |
| 68) Atrazine | 11.19 | 200 | 151116 | 47.552 | ng | | 98 |
| 69) Pentachlorophenol | 11.30 | 266 | 141464 | 68.199 | ng | | 98 |
| 70) Phenanthrene | 11.53 | 178 | 731927 | 44.136 | ng | | 98 |
| 71) Anthracene | 11.58 | 178 | 817410 | 47.190 | ng | | 99 |
| 72) Carbazole | 11.74 | 167 | 708938 | 42.882 | ng | | 99 |
| 73) Di-n-butylphthalate | 12.05 | 149 | 937011 | 47.582 | ng | | 99 |
| 74) Fluoranthene | 12.72 | 202 | 682848 | 38.738 | ng | | 97 |
| 76) Benzidine | 12.85 | 184 | 400939 | 67.541 | ng | | 97 |
| 77) Pyrene | 12.95 | 202 | 662338 | 44.232 | ng | | 98 |
| 79) Butylbenzylphthalate | 13.55 | 149 | 311346 | 44.133 | ng | | 97 |
| 80) Benzo(a)anthracene | 14.14 | 228 | 578170 | 44.359 | ng | | 98 |
| 81) 3,3'-Dichlorobenzidine | 14.10 | 252 | 206828 | 47.940 | ng | | 96 |
| 82) Chrysene | 14.19 | 228 | 589657 | 46.189 | ng | | 98 |
| 83) Bis(2-ethylhexyl)phthalate | 14.10 | 149 | 394707 | 43.302 | ng | | 100 |
| 84) Di-n-octyl phthalate | 14.73 | 149 | 692828 | 44.186 | ng | # | 94 |
| 85) Indeno(1,2,3-cd)pyrene | 17.29 | 276 | 514196 | 38.869 | ng | | 96 |
| 87) Benzo(b)fluoranthene | 15.24 | 252 | 512785 | 41.657 | ng | | 99 |
| 88) Benzo(k)fluoranthene | 15.27 | 252 | 614823 | 53.021 | ng | | 99 |
| 89) Benzo(a)pyrene | 15.63 | 252 | 532206 | 46.655 | ng | | 99 |
| 90) Dibenzo(a,h)anthracene | 17.30 | 278 | 449872 | 42.655 | ng | | 97 |
| 91) Benzo(g,h,i)perylene | 17.77 | 276 | 407449 | 38.570 | ng | | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032918\
Data File : BF104081.D
Acq On : 30 Mar 2018 5:43
Operator : JU/SJ
Sample : PB107808BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB107808BS

Quant Time: Mar 30 06:55:21 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 28 13:41:47 2018
Response via : Initial Calibration