Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
Data File : BF089895.D
Acq On : 25 Aug 2016 2:00
Operator : UM/SJ
Sample : H4576-03MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-15A-(18-20)MSD

**Manual Integrations APPROVED**
umangi
8/25/2016 6:50:04 PM

Quant Time: Aug 25 15:43:28 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 19 14:02:57 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.67 | 152 | 407126 | 20.00 | ng | | -0.01 |
| 21) Naphthalene-d8 | 7.95 | 136 | 1620492 | 20.00 | ng | | -0.02 |
| 38) Acenaphthene-d10 | 9.71 | 164 | 796961 | 20.00 | ng | | 0.00 |
| 63) Phenanthrene-d10 | 11.19 | 188 | 1511700 | 20.00 | ng | | 0.00 |
| 75) Chrysene-d12 | 13.85 | 240 | 1209569 | 20.00 | ng | | -0.02 |
| 86) Perylene-d12 | 15.33 | 264 | 983040 | 20.00 | ng | | -0.05 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.24 | 112 | 3371840 | 142.03 | ng | | -0.01 |
| 7) Phenol-d6 | 6.32 | 99 | 4168544 | 143.04 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.23 | 82 | 2553382 | 97.89 | ng | | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.50 | 330 | 1045891 | 138.09 | ng | | 0.00 |
| 44) 2-Fluorobiphenyl | 9.04 | 172 | 3596520 | 79.31 | ng | | -0.01 |
| 78) Terphenyl-d14 | 12.78 | 244 | 3216243 | 60.15 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.18 | 88 | 450151 | 38.31 | ng | | 97 |
| 3) Pyridine | 2.81 | 79 | 1292257 | 41.94 | ng | | 92 |
| 4) n-Nitrosodimethylamine | 2.78 | 42 | 558481 | 48.68 | ng | # | 86 |
| 6) Aniline | 6.33 | 93 | 1303680 | 33.35 | ng | # | 17 |
| 8) 2-Chlorophenol | 6.46 | 128 | 1330557 | 46.87 | ng | # | 79 |
| 9) Benzaldehyde | 6.20 | 77 | 285381 | 15.03 | ng | | 85 |
| 10) Phenol | 6.33 | 94 | 1854443 | 54.29 | ng | | 92 |
| 11) bis(2-Chloroethyl)ether | 6.41 | 93 | 1166168 | 44.03 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 6.60 | 146 | 1257152 | 42.36 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.68 | 146 | 1352950 | 44.35 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 6.84 | 146 | 1257240 | 44.15 | ng | | 98 |
| 15) Benzyl Alcohol | 6.82 | 79 | 1013848 | 52.46 | ng | | 91 |
| 16) 2,2'-oxybis(1-Chloropropan | 6.96 | 45 | 1365258 | 40.28 | ng | | 94 |
| 17) 2-Methylphenol | 6.94 | 107 | 1021504 | 45.94 | ng | | 96 |
| 18) Hexachloroethane | 7.19 | 117 | 490951 | 45.12 | ng | | 91 |
| 19) n-Nitroso-di-n-propylamine | 7.10 | 70 | 788523 | 42.31 | ng | # | 88 |
| 20) 3+4-Methylphenols | 7.10 | 107 | 1363663 | 50.02 | ng | # | 52 |
| 22) Acetophenone | 7.08 | 105 | 1490957 | 40.07 | ng | # | 88 |
| 24) Nitrobenzene | 7.26 | 77 | 1238884 | 42.33 | ng | | 96 |
| 25) Isophorone | 7.50 | 82 | 2348192 | 44.64 | ng | | 98 |
| 26) 2-Nitrophenol | 7.58 | 139 | 781732 | 53.54 | ng | | 97 |
| 27) 2,4-Dimethylphenol | 7.62 | 122 | 1157652 | 43.99 | ng | | 97 |
| 28) bis(2-Chloroethoxy)methane | 7.72 | 93 | 1544002 | 47.44 | ng | # | 95 |
| 29) 2,4-Dichlorophenol | 7.82 | 162 | 1077820 | 48.81 | ng | | 95 |
| 30) 1,2,4-Trichlorobenzene | 7.90 | 180 | 1043305 | 42.71 | ng | | 98 |
| 31) Naphthalene | 7.98 | 128 | 3238426 | 42.76 | ng | | 98 |
| 32) Benzoic acid | 7.70 | 122 | 164025 | 8.00 | ng | | 95 |
| 33) 4-Chloroaniline | 8.03 | 127 | 684264 | 20.84 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.10 | 225 | 533674 | 41.73 | ng | | 100 |
| 35) Caprolactam | 8.40 | 113 | 347068m | 51.61 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.52 | 107 | 1171904 | 49.00 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.67 | 142 | 2457721 | 50.16 | ng | | 100 |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.83 | 216 | 771932 | 29.91 | ng | | 97 |
| 40) Hexachlorocyclopentadiene | 8.83 | 237 | 949223 | 105.94 | ng | | 98 |

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
Data File : BF089895.D
Acq On : 25 Aug 2016 2:00
Operator : UM/SJ
Sample : H4576-03MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SB-15A-(18-20)MSD

**Manual Integrations APPROVED**
umangi
8/25/2016 6:50:04 PM

Quant Time: Aug 25 15:43:28 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 19 14:02:57 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 8.95 | 196 | 710514 | 43.76 | ng | | 99 |
| 43) 2,4,5-Trichlorophenol | 8.99 | 196 | 758315 | 46.96 | ng | | 99 |
| 45) 1,1'-Biphenyl | 9.14 | 154 | 2569050 | 41.66 | ng | | 94 |
| 46) 2-Chloronaphthalene | 9.15 | 162 | 2038057 | 41.80 | ng | | 99 |
| 47) 2-Nitroaniline | 9.26 | 65 | 752052 | 54.09 | ng | # | 82 |
| 48) Acenaphthylene | 9.56 | 152 | 3363976 | 45.92 | ng | | 99 |
| 49) Dimethylphthalate | 9.45 | 163 | 3923984 | 69.93 | ng | | 97 |
| 50) 2,6-Dinitrotoluene | 9.51 | 165 | 649481 | 50.13 | ng | # | 73 |
| 51) Acenaphthene | 9.75 | 154 | 2294314 | 47.32 | ng | | 99 |
| 52) 3-Nitroaniline | 9.67 | 138 | 535949 | 37.34 | ng | | 80 |
| 53) 2,4-Dinitrophenol | 9.77 | 184 | 259011 | 43.02 | ng | # | 73 |
| 54) Dibenzofuran | 9.92 | 168 | 3202999 | 52.60 | ng | # | 89 |
| 55) 4-Nitrophenol | 9.84 | 139 | 1167926 | 99.69 | ng | | 94 |
| 56) 2,4-Dinitrotoluene | 9.91 | 165 | 792319 | 47.13 | ng | | 91 |
| 57) Fluorene | 10.25 | 166 | 2173908 | 44.79 | ng | | 99 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.03 | 232 | 605444 | 51.52 | ng | | 98 |
| 59) Diethylphthalate | 10.15 | 149 | 2521394 | 44.23 | ng | | 98 |
| 60) 4-Chlorophenyl-phenylether | 10.25 | 204 | 915853 | 41.37 | ng | | 95 |
| 61) 4-Nitroaniline | 10.28 | 138 | 738608 | 54.89 | ng | | 90 |
| 62) Azobenzene | 10.41 | 77 | 2570044 | 47.95 | ng | | 95 |
| 64) 4,6-Dinitro-2-methylphenol | 10.31 | 198 | 357889 | 41.20 | ng | # | 79 |
| 65) n-Nitrosodiphenylamine | 10.38 | 169 | 2260034 | 47.55 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 10.74 | 248 | 688533 | 43.44 | ng | # | 83 |
| 67) Hexachlorobenzene | 10.80 | 284 | 708070 | 39.16 | ng | # | 82 |
| 68) Atrazine | 10.90 | 200 | 672821 | 46.22 | ng | | 96 |
| 69) Pentachlorophenol | 10.99 | 266 | 759421 | 74.10 | ng | | 98 |
| 70) Phenanthrene | 11.21 | 178 | 3337910 | 43.72 | ng | | 96 |
| 71) Anthracene | 11.26 | 178 | 3445672 | 44.40 | ng | | 99 |
| 72) Carbazole | 11.42 | 167 | 3086439 | 44.34 | ng | | 98 |
| 73) Di-n-butylphthalate | 11.77 | 149 | 4174995 | 47.94 | ng | # | 98 |
| 74) Fluoranthene | 12.39 | 202 | 3121457 | 42.98 | ng | | 93 |
| 76) Benzidine | 12.51 | 184 | 1432367 | 36.59 | ng | | 97 |
| 77) Pyrene | 12.62 | 202 | 3243340 | 32.93 | ng | | 96 |
| 79) Butylbenzylphthalate | 13.27 | 149 | 1971191 | 44.31 | ng | | 99 |
| 80) Benzo(a)anthracene | 13.84 | 228 | 2930567 | 42.31 | ng | | 98 |
| 81) 3,3'-Dichlorobenzidine | 13.81 | 252 | 760565 | 33.49 | ng | | 97 |
| 82) Chrysene | 13.87 | 228 | 2469785 | 41.59 | ng | | 98 |
| 83) Bis(2-ethylhexyl)phthalate | 13.86 | 149 | 2464929 | 40.22 | ng | # | 98 |
| 84) Di-n-octyl phthalate | 14.54 | 149 | 4249904 | 52.19 | ng | | 95 |
| 85) Indeno(1,2,3-cd)pyrene | 16.61 | 276 | 2469589 | 32.59 | ng | | 99 |
| 87) Benzo(b)fluoranthene | 14.94 | 252 | 2384289m | 44.09 | ng | | |
| 88) Benzo(k)fluoranthene | 14.97 | 252 | 2552510m | 52.02 | ng | | |
| 89) Benzo(a)pyrene | 15.27 | 252 | 2205715 | 43.09 | ng | | 98 |
| 90) Dibenzo(a,h)anthracene | 16.63 | 278 | 2066617 | 37.20 | ng | | 95 |
| 91) Benzo(g,h,i)perylene | 16.99 | 276 | 2103830 | 35.96 | ng | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082416\
Data File : BF089895.D
Acq On : 25 Aug 2016 2:00
Operator : UM/SJ
Sample : H4576-03MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Aug 25 15:43:28 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 19 14:02:57 2016
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SB-15A-(18-20)MSD

**Manual Integrations APPROVED**
umangi
8/25/2016 6:50:04 PM