Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101518\
Data File : BF109888.D
Acq On : 15 Oct 2018 19:26
Operator : JU/SJ
Sample : PB113836BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB113836BSD

Manual Integrations APPROVED
Sohil
10/16/2018 9:57:31 AM

Quant Time: Oct 16 01:41:59 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 15 18:09:48 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.97 | 152 | 243248 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.26 | 136 | 945797 | 20.00 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 10.02 | 164 | 433318 | 20.00 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.51 | 188 | 770509 | 20.00 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.15 | 240 | 456310 | 20.00 | ng | | 0.00 |
| 87) Perylene-d12 | 15.67 | 264 | 511213 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.60 | 112 | 1603820 | 104.51 | ng | | 0.01 |
| 7) Phenol-d6 | 6.60 | 99 | 2029502 | 106.51 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.54 | 82 | 1235617 | 88.01 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.81 | 330 | 437143 | 116.52 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.33 | 172 | 2167076 | 79.80 | ng | | 0.00 |
| 79) Terphenyl-d14 | 13.09 | 244 | 1826016 | 84.03 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.91 | 88 | 265055 | 30.411 | ng | | 92 |
| 3) Pyridine | 3.66 | 79 | 752382 | 38.720 | ng | | 90 |
| 4) n-Nitrosodimethylamine | 3.62 | 42 | 365390 | 46.096 | ng | # | 99 |
| 6) Aniline | 6.64 | 93 | 536023 | 20.874 | ng | # | 52 |
| 8) 2-Chlorophenol | 6.76 | 128 | 721603 | 41.980 | ng | | 98 |
| 9) Benzaldehyde | 6.53 | 77 | 357623 | 28.880 | ng | | 100 |
| 10) Phenol | 6.61 | 94 | 839555 | 40.808 | ng | # | 62 |
| 11) bis(2-Chloroethyl)ether | 6.71 | 93 | 697268 | 40.534 | ng | | 92 |
| 12) 1,3-Dichlorobenzene | 6.92 | 146 | 757675 | 40.198 | ng | | 95 |
| 13) 1,4-Dichlorobenzene | 6.99 | 146 | 764409 | 40.269 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 7.15 | 146 | 708443 | 40.528 | ng | | 99 |
| 15) Benzyl Alcohol | 7.11 | 79 | 619832 | 42.281 | ng | | 92 |
| 16) 2,2'-oxybis(1-Chloropropan | 7.25 | 45 | 1165508 | 41.280 | ng | | 67 |
| 17) 2-Methylphenol | 7.22 | 107 | 598604 | 43.186 | ng | # | 81 |
| 18) Hexachloroethane | 7.49 | 117 | 280747 | 41.851 | ng | | 96 |
| 19) n-Nitroso-di-n-propylamine | 7.39 | 70 | 489454 | 40.005 | ng | | 96 |
| 20) 3+4-Methylphenols | 7.37 | 107 | 737692 | 41.940 | ng | # | 89 |
| 22) Acetophenone | 7.39 | 105 | 968072 | 44.136 | ng | | 98 |
| 24) Nitrobenzene | 7.56 | 77 | 729462 | 47.826 | ng | | 96 |
| 25) Isophorone | 7.80 | 82 | 1365547 | 49.499 | ng | | 95 |
| 26) 2-Nitrophenol | 7.87 | 139 | 339369 | 53.664 | ng | | 92 |
| 27) 2,4-Dimethylphenol | 7.90 | 122 | 677021 | 50.950 | ng | | 95 |
| 28) bis(2-Chloroethoxy)methane | 8.00 | 93 | 877550 | 46.350 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.11 | 162 | 588490 | 45.653 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.20 | 180 | 625364 | 43.328 | ng | | 96 |
| 31) Naphthalene | 8.28 | 128 | 2019392 | 46.561 | ng | | 99 |
| 32) Benzoic acid | 7.99 | 122 | 210918 | 25.475 | ng | | 93 |
| 33) 4-Chloroaniline | 8.32 | 127 | 196677 | 10.088 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.40 | 225 | 336577 | 42.289 | ng | | 98 |
| 35) Caprolactam | 8.69 | 113 | 196192m | 42.855 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.80 | 107 | 617937 | 45.441 | ng | | 97 |
| 37) 2-Methylnaphthalene | 8.97 | 142 | 1380096 | 49.142 | ng | | 98 |
| 38) 1-Methylnaphthalene | 9.07 | 142 | 1313932 | 48.283 | ng | | 98 |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.14 | 216 | 561109 | 42.041 | ng | # | 98 |

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101518\
Data File : BF109888.D
Acq On : 15 Oct 2018 19:26
Operator : JU/SJ
Sample : PB113836BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB113836BSD

**Manual Integrations APPROVED**
Sohil
10/16/2018 9:57:31 AM

Quant Time: Oct 16 01:41:59 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 15 18:09:48 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Hexachlorocyclopentadiene | 9.13 | 237 | 679607 | 105.498 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.25 | 196 | 394202 | 47.235 | ng | | 96 |
| 44) 2,4,5-Trichlorophenol | 9.29 | 196 | 408553 | 47.168 | ng | | 94 |
| 46) 1,1'-Biphenyl | 9.44 | 154 | 1610105 | 41.705 | ng | | 97 |
| 47) 2-Chloronaphthalene | 9.46 | 162 | 1238072 | 43.536 | ng | | 97 |
| 48) 2-Nitroaniline | 9.56 | 65 | 374404 | 51.303 | ng | | 97 |
| 49) Acenaphthylene | 9.89 | 152 | 1941400 | 46.993 | ng | | 97 |
| 50) Dimethylphthalate | 9.73 | 163 | 1401921 | 45.691 | ng | | 98 |
| 51) 2,6-Dinitrotoluene | 9.80 | 165 | 305430 | 52.410 | ng | | 95 |
| 52) Acenaphthene | 10.06 | 154 | 1247329 | 47.424 | ng | | 99 |
| 53) 3-Nitroaniline | 9.96 | 138 | 128133 | 18.075 | ng | | 98 |
| 54) 2,4-Dinitrophenol | 10.07 | 184 | 150799 | 81.091 | ng | # | 79 |
| 55) Dibenzofuran | 10.23 | 168 | 1685971 | 44.947 | ng | | 97 |
| 56) 4-Nitrophenol | 10.12 | 139 | 505960 | 93.538 | ng | | 87 |
| 57) 2,4-Dinitrotoluene | 10.20 | 165 | 385530 | 51.953 | ng | # | 89 |
| 58) Fluorene | 10.57 | 166 | 1266426 | 46.380 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.34 | 232 | 327937 | 47.772 | ng | | 95 |
| 60) Diethylphthalate | 10.44 | 149 | 1343612 | 44.337 | ng | | 97 |
| 61) 4-Chlorophenyl-phenylether | 10.56 | 204 | 599114 | 42.121 | ng | | 97 |
| 62) 4-Nitroaniline | 10.59 | 138 | 297570 | 44.344 | ng | | 92 |
| 63) Azobenzene | 10.72 | 77 | 1379224 | 43.565 | ng | | 95 |
| 65) 4,6-Dinitro-2-methylphenol | 10.61 | 198 | 117830 | 43.165 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.68 | 169 | 1139391 | 44.399 | ng | | 96 |
| 67) 4-Bromophenyl-phenylether | 11.05 | 248 | 371280 | 44.463 | ng | | 93 |
| 68) Hexachlorobenzene | 11.12 | 284 | 390026 | 43.801 | ng | # | 92 |
| 69) Atrazine | 11.20 | 200 | 370920 | 46.272 | ng | | 98 |
| 70) Pentachlorophenol | 11.31 | 266 | 347967 | 68.665 | ng | | 96 |
| 71) Phenanthrene | 11.54 | 178 | 1821853 | 45.672 | ng | | 99 |
| 72) Anthracene | 11.59 | 178 | 1911144 | 47.655 | ng | | 99 |
| 73) Carbazole | 11.74 | 167 | 1627127 | 41.283 | ng | | 99 |
| 74) Di-n-butylphthalate | 12.06 | 149 | 1904483 | 43.297 | ng | | 99 |
| 75) Fluoranthene | 12.73 | 202 | 1744943 | 43.789 | ng | | 99 |
| 77) Benzidine | 12.84 | 184 | 430575 | 24.611 | ng | | 97 |
| 78) Pyrene | 12.96 | 202 | 1727010 | 51.530 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.56 | 149 | 674967 | 49.815 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.14 | 228 | 1304577 | 48.537 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.10 | 252 | 203452 | 21.591 | ng | | 98 |
| 83) Chrysene | 14.18 | 228 | 1205544 | 47.122 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phthalate | 14.12 | 149 | 840074 | 47.118 | ng | | 96 |
| 85) Di-n-octyl phthalate | 14.74 | 149 | 1325799 | 52.745 | ng | | 98 |
| 86) Indeno(1,2,3-cd)pyrene | 17.23 | 276 | 1747492 | 84.835 | ng | # | 93 |
| 88) Benzo(b)fluoranthene | 15.22 | 252 | 1284338 | 43.577 | ng | | 97 |
| 89) Benzo(k)fluoranthene | 15.25 | 252 | 1218305 | 41.938 | ng | # | 95 |
| 90) Benzo(a)pyrene | 15.61 | 252 | 1304027 | 48.108 | ng | | 97 |
| 91) Dibenzo(a,h)anthracene | 17.26 | 278 | 1428812 | 59.478 | ng | # | 96 |
| 92) Benzo(g,h,i)perylene | 17.72 | 276 | 1492325 | 61.485 | ng | # | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101518\
Data File : BF109888.D
Acq On : 15 Oct 2018 19:26
Operator : JU/SJ
Sample : PB113836BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 16 01:41:59 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 15 18:09:48 2018
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
PB113836BSD

**Manual Integrations APPROVED**
Sohil
10/16/2018 9:57:31 AM