Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\
Data File : BF084951.D
Acq On : 9 Feb 2016 14:50
Operator : SJ/IZ
Sample : H1377-11MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB03-2-3MS

Manual Integrations APPROVED
Sohil
2/10/2016 1:44:52 PM

Quant Time: Feb 10 03:56:00 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 14:16:01 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.64 | 152 | 164305 | 20.00 | ng | | -0.05 |
| 21) Naphthalene-d8 | 7.93 | 136 | 669531 | 20.00 | ng | | -0.05 |
| 38) Acenaphthene-d10 | 9.68 | 164 | 316579 | 20.00 | ng | | -0.06 |
| 63) Phenanthrene-d10 | 11.15 | 188 | 563923 | 20.00 | ng | | -0.06 |
| 75) Chrysene-d12 | 13.78 | 240 | 404451 | 20.00 | ng | | -0.06 |
| 86) Perylene-d12 | 15.14 | 264 | 314531 | 20.00 | ng | | -0.07 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.24 | 112 | 1494679 | 141.69 | ng | | -0.03 |
| 7) Phenol-d6 | 6.30 | 99 | 1899377 | 145.24 | ng | | -0.03 |
| 23) Nitrobenzene-d5 | 7.21 | 82 | 1181993 | 99.45 | ng | | -0.06 |
| 41) 2,4,6-Tribromophenol | 10.46 | 330 | 428555 | 129.78 | ng | | -0.06 |
| 44) 2-Fluorobiphenyl | 9.00 | 172 | 1581779 | 83.70 | ng | | -0.06 |
| 78) Terphenyl-d14 | 12.74 | 244 | 1737026 | 97.32 | ng | | -0.06 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.17 | 88 | 147244 | 31.87 | ng | # | 73 |
| 3) Pyridine | 2.82 | 79 | 405178 | 33.66 | ng | # | 74 |
| 4) n-Nitrosodimethylamine | 2.77 | 42 | 257283 | 41.32 | ng | | 80 |
| 6) Aniline | 6.30 | 93 | 435672 | 27.23 | ng | # | 58 |
| 8) 2-Chlorophenol | 6.43 | 128 | 471953 | 39.53 | ng | | 90 |
| 9) Benzaldehyde | 6.18 | 77 | 140696 | 18.22 | ng | | 96 |
| 10) Phenol | 6.32 | 94 | 674305 | 46.03 | ng | | 85 |
| 11) bis(2-Chloroethyl)ether | 6.38 | 93 | 489174 | 42.82 | ng | | 88 |
| 12) 1,3-Dichlorobenzene | 6.58 | 146 | 492615 | 39.05 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.65 | 146 | 475879 | 37.73 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 6.81 | 146 | 489224 | 41.65 | ng | | 98 |
| 15) Benzyl Alcohol | 6.80 | 79 | 423621 | 46.91 | ng | | 92 |
| 16) 2,2'-oxybis(1-Chloropropan | 6.93 | 45 | 783665 | 40.78 | ng | | 89 |
| 17) 2-Methylphenol | 6.92 | 107 | 407348 | 43.14 | ng | # | 88 |
| 18) Hexachloroethane | 7.15 | 117 | 197023 | 40.57 | ng | # | 87 |
| 19) n-Nitroso-di-n-propylamine | 7.07 | 70 | 356772 | 43.52 | ng | # | 76 |
| 20) 3+4-Methylphenols | 7.07 | 107 | 501123 | 42.75 | ng | # | 83 |
| 22) Acetophenone | 7.06 | 105 | 696540 | 39.47 | ng | | 98 |
| 24) Nitrobenzene | 7.23 | 77 | 547286 | 43.00 | ng | | 99 |
| 25) Isophorone | 7.47 | 82 | 935485 | 40.48 | ng | | 99 |
| 26) 2-Nitrophenol | 7.55 | 139 | 277827 | 44.26 | ng | | 94 |
| 27) 2,4-Dimethylphenol | 7.60 | 122 | 408392 | 37.40 | ng | | 96 |
| 28) bis(2-Chloroethoxy)methane | 7.69 | 93 | 573501 | 41.83 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 7.79 | 162 | 383378 | 41.04 | ng | | 96 |
| 30) 1,2,4-Trichlorobenzene | 7.87 | 180 | 436662 | 41.38 | ng | # | 96 |
| 31) Naphthalene | 7.95 | 128 | 1398764 | 41.65 | ng | | 99 |
| 32) Benzoic acid | 7.70 | 122 | 65044 | 9.31 | ng | | 96 |
| 33) 4-Chloroaniline | 8.01 | 127 | 263508 | 18.97 | ng | # | 89 |
| 34) Hexachlorobutadiene | 8.06 | 225 | 231268 | 38.01 | ng | | 99 |
| 35) Caprolactam | 8.38 | 113 | 127940m | 44.43 | ng | | |
| 36) 4-Chloro-3-methylphenol | 8.50 | 107 | 480111 | 45.05 | ng | | 95 |
| 37) 2-Methylnaphthalene | 8.64 | 142 | 920654 | 43.80 | ng | | 97 |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.81 | 216 | 407891 | 40.57 | ng | | 99 |
| 40) Hexachlorocyclopentadiene | 8.80 | 237 | 328742 | 75.72 | ng | | 98 |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\
Data File : BF084951.D
Acq On : 9 Feb 2016 14:50
Operator : SJ/IZ
Sample : H1377-11MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SB03-2-3MS

**Manual Integrations APPROVED**
Sohil
2/10/2016 1:44:52 PM

Quant Time: Feb 10 03:56:00 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 14:16:01 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 2,4,6-Trichlorophenol | 8.92 | 196 | 270636 | 41.78 | ng | | 94 |
| 43) 2,4,5-Trichlorophenol | 8.97 | 196 | 274263 | 41.67 | ng | # | 86 |
| 45) 1,1'-Biphenyl | 9.10 | 154 | 1194948 | 42.26 | ng | | 97 |
| 46) 2-Chloronaphthalene | 9.13 | 162 | 877828 | 42.16 | ng | # | 88 |
| 47) 2-Nitroaniline | 9.23 | 65 | 315169 | 47.80 | ng | # | 83 |
| 48) Acenaphthylene | 9.54 | 152 | 1339101 | 42.38 | ng | | 99 |
| 49) Dimethylphthalate | 9.41 | 163 | 1189046 | 49.31 | ng | # | 90 |
| 50) 2,6-Dinitrotoluene | 9.47 | 165 | 203613 | 38.66 | ng | # | 43 |
| 51) Acenaphthene | 9.71 | 154 | 852169 | 41.45 | ng | | 98 |
| 52) 3-Nitroaniline | 9.64 | 138 | 184288 | 31.13 | ng | # | 84 |
| 53) 2,4-Dinitrophenol | 9.76 | 184 | 173139 | 71.85 | ng | | 90 |
| 54) Dibenzofuran | 9.88 | 168 | 1172066 | 46.65 | ng | | 96 |
| 55) 4-Nitrophenol | 9.82 | 139 | 273317 | 62.83 | ng | # | 79 |
| 56) 2,4-Dinitrotoluene | 9.88 | 165 | 302280 | 44.99 | ng | | 91 |
| 57) Fluorene | 10.22 | 166 | 908451 | 43.30 | ng | | 99 |
| 58) 2,3,4,6-Tetrachlorophenol | 10.01 | 232 | 226013 | 45.11 | ng | | 89 |
| 59) Diethylphthalate | 10.11 | 149 | 932614 | 39.61 | ng | | 99 |
| 60) 4-Chlorophenyl-phenylether | 10.21 | 204 | 368227 | 41.15 | ng | | 92 |
| 61) 4-Nitroaniline | 10.26 | 138 | 256978 | 44.55 | ng | | 90 |
| 62) Azobenzene | 10.37 | 77 | 967981 | 42.76 | ng | | 88 |
| 64) 4,6-Dinitro-2-methylphenol | 10.28 | 198 | 143084 | 41.11 | ng | # | 51 |
| 65) n-Nitrosodiphenylamine | 10.34 | 169 | 765180 | 42.73 | ng | | 99 |
| 66) 4-Bromophenyl-phenylether | 10.70 | 248 | 275096 | 44.17 | ng | # | 93 |
| 67) Hexachlorobenzene | 10.76 | 284 | 265572 | 39.13 | ng | # | 83 |
| 68) Atrazine | 10.88 | 200 | 283007 | 50.05 | ng | | 97 |
| 69) Pentachlorophenol | 10.97 | 266 | 233510 | 73.21 | ng | | 98 |
| 70) Phenanthrene | 11.17 | 178 | 1217823 | 38.94 | ng | | 97 |
| 71) Anthracene | 11.23 | 178 | 1396133 | 44.30 | ng | | 99 |
| 72) Carbazole | 11.39 | 167 | 1264404 | 46.01 | ng | | 98 |
| 73) Di-n-butylphthalate | 11.72 | 149 | 1362327 | 38.94 | ng | # | 96 |
| 74) Fluoranthene | 12.35 | 202 | 1237275 | 39.08 | ng | | 99 |
| 76) Benzidine | 12.49 | 184 | 359218 | 25.70 | ng | | 97 |
| 77) Pyrene | 12.58 | 202 | 1243276 | 40.15 | ng | | 98 |
| 79) Butylbenzylphthalate | 13.21 | 149 | 589917 | 41.99 | ng | # | 83 |
| 80) Benzo(a)anthracene | 13.77 | 228 | 1096218 | 43.67 | ng | | 99 |
| 81) 3,3'-Dichlorobenzidine | 13.73 | 252 | 165271 | 18.59 | ng | # | 95 |
| 82) Chrysene | 13.80 | 228 | 822237 | 33.78 | ng | | 100 |
| 83) Bis(2-ethylhexyl)phthalate | 13.78 | 149 | 784458 | 44.87 | ng | # | 97 |
| 84) Di-n-octyl phthalate | 14.39 | 149 | 1148685 | 39.83 | ng | # | 88 |
| 85) Indeno(1,2,3-cd)pyrene | 16.40 | 276 | 805353 | 42.03 | ng | | 98 |
| 87) Benzo(b)fluoranthene | 14.77 | 252 | 1021093m | 48.32 | ng | | |
| 88) Benzo(k)fluoranthene | 14.80 | 252 | 647788m | 37.07 | ng | | |
| 89) Benzo(a)pyrene | 15.08 | 252 | 750849 | 41.70 | ng | # | 97 |
| 90) Dibenzo(a,h)anthracene | 16.41 | 278 | 666670 | 43.98 | ng | # | 95 |
| 91) Benzo(g,h,i)perylene | 16.77 | 276 | 687282 | 45.01 | ng | | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\
Data File : BF084951.D
Acq On : 9 Feb 2016 14:50
Operator : SJ/IZ
Sample : H1377-11MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 10 03:56:00 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 14:16:01 2016
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SB03-2-3MS

**Manual Integrations APPROVED**
Sohil
2/10/2016 1:44:52 PM