Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG101518\
Data File : BG037338.D
Acq On : 15 Oct 2018 18:02
Operator : JU/SJ
Sample : J5509-02MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MS-SOILMSD

Quant Time: Oct 16 04:16:45 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG101118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 16 02:21:11 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 8.12 | 152 | 64270 | 20.00 | ng | | 0.00 |
| 21) Naphthalene-d8 | 10.94 | 136 | 277154 | 20.00 | ng | | -0.01 |
| 39) Acenaphthene-d10 | 14.75 | 164 | 186778 | 20.00 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 17.50 | 188 | 449084 | 20.00 | ng | | -0.01 |
| 76) Chrysene-d12 | 21.78 | 240 | 405150 | 20.00 | ng | | -0.01 |
| 87) Perylene-d12 | 25.13 | 264 | 420572 | 20.00 | ng | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.65 | 112 | 400826 | 109.76 | ng | | 0.00 |
| 7) Phenol-d6 | 7.25 | 99 | 582924 | 105.16 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 9.29 | 82 | 313729 | 74.42 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.24 | 330 | 208528 | 113.84 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 13.38 | 172 | 746992 | 60.06 | ng | | 0.00 |
| 79) Terphenyl-d14 | 20.09 | 244 | 1125783 | 58.35 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.54 | 88 | 47825 | 23.318 | ng | | 97 |
| 3) Pyridine | 3.94 | 79 | 132028 | 27.112 | ng | | 89 |
| 4) n-Nitrosodimethylamine | 3.86 | 42 | 62364 | 32.978 | ng | # | 88 |
| 6) Aniline | 7.44 | 93 | 177409 | 24.450 | ng | | 97 |
| 8) 2-Chlorophenol | 7.67 | 128 | 164333 | 38.449 | ng | | 99 |
| 9) Benzaldehyde | 7.25 | 77 | 76413 | 20.023 | ng | | 96 |
| 10) Phenol | 7.28 | 94 | 245828 | 42.109 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 7.53 | 93 | 155045 | 32.509 | ng | | 93 |
| 12) 1,3-Dichlorobenzene | 8.00 | 146 | 162464 | 32.334 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 8.15 | 146 | 165050 | 32.445 | ng | | 98 |
| 14) 1,2-Dichlorobenzene | 8.47 | 146 | 158101 | 32.073 | ng | | 99 |
| 15) Benzyl Alcohol | 8.35 | 79 | 150051 | 34.608 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropropan | 8.63 | 45 | 273963 | 29.057 | ng | | 98 |
| 17) 2-Methylphenol | 8.55 | 107 | 151140 | 38.657 | ng | | 98 |
| 18) Hexachloroethane | 9.20 | 117 | 56943 | 32.796 | ng | | 92 |
| 19) n-Nitroso-di-n-propylamine | 8.92 | 70 | 131336 | 31.296 | ng | | 92 |
| 20) 3+4-Methylphenols | 8.88 | 107 | 209016 | 38.233 | ng | | 99 |
| 22) Acetophenone | 8.95 | 105 | 245683 | 35.165 | ng | # | 97 |
| 24) Nitrobenzene | 9.33 | 77 | 177893 | 39.398 | ng | | 96 |
| 25) Isophorone | 9.85 | 82 | 375622 | 39.031 | ng | | 98 |
| 26) 2-Nitrophenol | 10.05 | 139 | 67887 | 42.060 | ng | | 96 |
| 27) 2,4-Dimethylphenol | 10.09 | 122 | 179127 | 44.531 | ng | | 97 |
| 28) bis(2-Chloroethoxy)methane | 10.33 | 93 | 226843 | 37.676 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 10.57 | 162 | 175303 | 42.933 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 10.79 | 180 | 170134 | 34.241 | ng | | 97 |
| 31) Naphthalene | 10.99 | 128 | 511742 | 37.993 | ng | | 100 |
| 32) Benzoic acid | 10.19 | 122 | 66605 | 29.987 | ng | | 96 |
| 33) 4-Chloroaniline | 11.10 | 127 | 117956 | 18.668 | ng | | 96 |
| 34) Hexachlorobutadiene | 11.26 | 225 | 99332 | 32.192 | ng | | 98 |
| 35) Caprolactam | 11.88 | 113 | 68922 | 41.404 | ng | | 95 |
| 36) 4-Chloro-3-methylphenol | 12.20 | 107 | 198033 | 41.066 | ng | | 97 |
| 37) 2-Methylnaphthalene | 12.58 | 142 | 390974 | 39.774 | ng | | 99 |
| 38) 1-Methylnaphthalene | 12.80 | 142 | 372470 | 38.797 | ng | | 99 |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.94 | 216 | 197191 | 32.601 | ng | | 99 |

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Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** MS-SOILMSD

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Hexachlorocyclopentadiene | 12.91 | 237 | 208843 | 83.753 | ng | | 100 |
| 43) 2,4,6-Trichlorophenol | 13.18 | 196 | 148192 | 42.233 | ng | | 99 |
| 44) 2,4,5-Trichlorophenol | 13.25 | 196 | 167242 | 44.298 | ng | | 99 |
| 46) 1,1'-Biphenyl | 13.58 | 154 | 513010 | 33.389 | ng | | 99 |
| 47) 2-Chloronaphthalene | 13.63 | 162 | 400052 | 34.470 | ng | | 98 |
| 48) 2-Nitroaniline | 13.83 | 65 | 119151 | 39.104 | ng | | 97 |
| 49) Acenaphthylene | 14.48 | 152 | 664265 | 37.415 | ng | | 99 |
| 50) Dimethylphthalate | 14.20 | 163 | 610824 | 41.614 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 14.33 | 165 | 109868 | 39.483 | ng | | 97 |
| 52) Acenaphthene | 14.82 | 154 | 393254 | 35.860 | ng | | 98 |
| 53) 3-Nitroaniline | 14.66 | 138 | 88137 | 28.699 | ng | | 99 |
| 54) 2,4-Dinitrophenol | 14.86 | 184 | 64582 | 87.928 | ng | | 99 |
| 55) Dibenzofuran | 15.14 | 168 | 627036 | 35.238 | ng | | 100 |
| 56) 4-Nitrophenol | 14.95 | 139 | 204153 | 85.280 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 15.11 | 165 | 154704 | 43.441 | ng | | 96 |
| 58) Fluorene | 15.80 | 166 | 507401 | 37.703 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 15.36 | 232 | 145131 | 43.419 | ng | | 99 |
| 60) Diethylphthalate | 15.56 | 149 | 546601 | 35.933 | ng | | 100 |
| 61) 4-Chlorophenyl-phenylether | 15.79 | 204 | 264753 | 33.656 | ng | | 99 |
| 62) 4-Nitroaniline | 15.82 | 138 | 129632 | 40.215 | ng | | 94 |
| 63) Azobenzene | 16.07 | 77 | 502371 | 34.445 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylphenol | 15.86 | 198 | 60013 | 43.351 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 16.00 | 169 | 476402 | 36.123 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 16.68 | 248 | 167328 | 34.524 | ng | | 99 |
| 68) Hexachlorobenzene | 16.78 | 284 | 170085 | 33.847 | ng | | 97 |
| 69) Atrazine | 16.94 | 200 | 181776 | 37.084 | ng | | 98 |
| 70) Pentachlorophenol | 17.13 | 266 | 205313 | 63.326 | ng | | 97 |
| 71) Phenanthrene | 17.54 | 178 | 839311 | 36.715 | ng | | 99 |
| 72) Anthracene | 17.63 | 178 | 860874 | 38.474 | ng | | 97 |
| 73) Carbazole | 17.90 | 167 | 802215 | 34.797 | ng | | 99 |
| 74) Di-n-butylphthalate | 18.44 | 149 | 925307 | 37.447 | ng | | 99 |
| 75) Fluoranthene | 19.54 | 202 | 986889 | 36.937 | ng | | 99 |
| 77) Benzidine | 19.72 | 184 | 287525 | 18.551 | ng | | 99 |
| 78) Pyrene | 19.90 | 202 | 977681 | 37.026 | ng | | 99 |
| 80) Butylbenzylphthalate | 20.78 | 149 | 406867 | 39.604 | ng | | 97 |
| 81) Benzo(a)anthracene | 21.76 | 228 | 902152 | 37.180 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 21.67 | 252 | 203369 | 21.727 | ng | | 98 |
| 83) Chrysene | 21.83 | 228 | 832618 | 35.972 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phthalate | 21.64 | 149 | 580648 | 39.360 | ng | | 100 |
| 85) Di-n-octyl phthalate | 22.90 | 149 | 957578 | 39.992 | ng | | 98 |
| 86) Indeno(1,2,3-cd)pyrene | 28.96 | 276 | 962759 | 37.526 | ng | # | 90 |
| 88) Benzo(b)fluoranthene | 24.05 | 252 | 870328 | 38.063 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 24.13 | 252 | 840498 | 37.251 | ng | | 98 |
| 90) Benzo(a)pyrene | 24.97 | 252 | 843417 | 38.467 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 29.03 | 278 | 788197 | 37.571 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 30.17 | 276 | 794432 | 37.915 | ng | | 99 |

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

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