Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122118\
Data File : BM018374.D
Acq On : 22 Dec 2018 01:30
Operator : JU/SJ
Sample : J6500-02MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
SOIL-CUTTINGSMS

**Manual Integrations APPROVED**
Sohil
12/26/2018 3:20:23 PM

Quant Time: Dec 22 05:56:27 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 15 21:39:37 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.48 | 152 | 103314 | 20.00 | ng | | -0.02 |
| 21) Naphthalene-d8 | 10.25 | 136 | 418890 | 20.00 | ng | | -0.02 |
| 39) Acenaphthene-d10 | 14.15 | 164 | 224893 | 20.00 | ng | | -0.02 |
| 64) Phenanthrene-d10 | 16.91 | 188 | 402205 | 20.00 | ng | | -0.01 |
| 76) Chrysene-d12 | 21.13 | 240 | 357996 | 20.00 | ng | | -0.01 |
| 87) Perylene-d12 | 23.30 | 264 | 415924 | 20.00 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.13 | 112 | 526862 | 85.19 | ng | | 0.00 |
| 7) Phenol-d6 | 6.70 | 99 | 702813 | 81.76 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 8.64 | 82 | 475582 | 58.24 | ng | | -0.02 |
| 42) 2,4,6-Tribromophenol | 15.66 | 330 | 200037 | 60.60 | ng | | -0.01 |
| 45) 2-Fluorobiphenyl | 12.75 | 172 | 913147 | 52.59 | ng | | -0.02 |
| 79) Terphenyl-d14 | 19.56 | 244 | 921501 | 58.22 | ng | | -0.01 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.12 | 88 | 51786 | 21.138 | ng | | 97 |
| 3) Pyridine | 3.50 | 79 | 177497 | 24.627 | ng | | 95 |
| 4) n-Nitrosodimethylamine | 3.42 | 42 | 77888 | 31.396 | ng | | 92 |
| 6) Aniline | 6.83 | 93 | 172571 | 16.003 | ng | | 97 |
| 8) 2-Chlorophenol | 7.06 | 128 | 181350 | 24.818 | ng | | 92 |
| 9) Benzaldehyde | 6.65 | 77 | 150917 | 28.803 | ng | | 88 |
| 10) Phenol | 6.73 | 94 | 295139 | 32.419 | ng | | 94 |
| 11) bis(2-Chloroethyl)ether | 6.93 | 93 | 168645 | 23.309 | ng | | 97 |
| 12) 1,3-Dichlorobenzene | 7.37 | 146 | 191707 | 23.494 | ng | | 95 |
| 13) 1,4-Dichlorobenzene | 7.52 | 146 | 192444 | 23.225 | ng | | 97 |
| 14) 1,2-Dichlorobenzene | 7.82 | 146 | 186486 | 23.346 | ng | | 97 |
| 15) Benzyl Alcohol | 7.74 | 79 | 196772 | 28.092 | ng | | 93 |
| 16) 2,2'-oxybis(1-Chloropropan | 8.00 | 45 | 128750 | 19.774 | ng | | 87 |
| 17) 2-Methylphenol | 7.95 | 107 | 157044 | 25.835 | ng | | 90 |
| 18) Hexachloroethane | 8.53 | 117 | 56487 | 18.599 | ng | | 92 |
| 19) n-Nitroso-di-n-propylamine | 8.29 | 70 | 155588 | 24.241 | ng | | 97 |
| 20) 3+4-Methylphenols | 8.28 | 107 | 207194 | 24.325 | ng | | 94 |
| 22) Acetophenone | 8.30 | 105 | 281073 | 25.356 | ng | | 94 |
| 24) Nitrobenzene | 8.68 | 77 | 232723 | 28.520 | ng | | 93 |
| 25) Isophorone | 9.20 | 82 | 391488 | 28.794 | ng | | 96 |
| 26) 2-Nitrophenol | 9.38 | 139 | 57452 | 14.355 | ng | # | 88 |
| 27) 2,4-Dimethylphenol | 9.46 | 122 | 161913 | 28.071 | ng | | 95 |
| 28) bis(2-Chloroethoxy)methane | 9.69 | 93 | 225350 | 25.427 | ng | | 97 |
| 29) 2,4-Dichlorophenol | 9.92 | 162 | 164238 | 25.681 | ng | | 98 |
| 30) 1,2,4-Trichlorobenzene | 10.12 | 180 | 187942 | 25.836 | ng | | 96 |
| 31) Naphthalene | 10.30 | 128 | 530627 | 25.906 | ng | | 99 |
| 32) Benzoic acid | 9.59 | 122 | 38528m | 7.054 | ng | | |
| 33) 4-Chloroaniline | 10.43 | 127 | 140695 | 15.681 | ng | | 93 |
| 34) Hexachlorobutadiene | 10.56 | 225 | 112973 | 24.555 | ng | | 98 |
| 35) Caprolactam | 11.24 | 113 | 48310 | 19.824 | ng | | 89 |
| 36) 4-Chloro-3-methylphenol | 11.59 | 107 | 185006 | 24.075 | ng | | 91 |
| 37) 2-Methylnaphthalene | 11.92 | 142 | 381606 | 26.418 | ng | | 96 |
| 38) 1-Methylnaphthalene | 12.15 | 142 | 360219 | 25.556 | ng | # | 98 |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.30 | 216 | 203066 | 26.258 | ng | | 99 |

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| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Hexachlorocyclopentadiene | 12.26 | 237 | 6108 | 9.711 | ng | | 92 |
| 43) 2,4,6-Trichlorophenol | 12.57 | 196 | 125746 | 25.281 | ng | | 93 |
| 44) 2,4,5-Trichlorophenol | 12.65 | 196 | 126184 | 23.896 | ng | | 95 |
| 46) 1,1'-Biphenyl | 12.96 | 154 | 484714 | 23.958 | ng | | 98 |
| 47) 2-Chloronaphthalene | 13.00 | 162 | 372836 | 25.037 | ng | | 97 |
| 48) 2-Nitroaniline | 13.24 | 65 | 135470 | 29.532 | ng | | 90 |
| 49) Acenaphthylene | 13.86 | 152 | 577169 | 25.720 | ng | | 99 |
| 50) Dimethylphthalate | 13.62 | 163 | 554091 | 29.635 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 13.75 | 165 | 83439 | 20.301 | ng | # | 81 |
| 52) Acenaphthene | 14.21 | 154 | 340141 | 24.802 | ng | | 98 |
| 53) 3-Nitroaniline | 14.09 | 138 | 103432 | 23.913 | ng | | 89 |
| 54) 2,4-Dinitrophenol | 14.33 | 184 | 128 | 0.056 | ng | # | 33 |
| 55) Dibenzofuran | 14.55 | 168 | 539104 | 24.464 | ng | | 96 |
| 56) 4-Nitrophenol | 14.45 | 139 | 93709 | 28.575 | ng | # | 69 |
| 57) 2,4-Dinitrotoluene | 14.56 | 165 | 110401 | 19.432 | ng | # | 86 |
| 58) Fluorene | 15.20 | 166 | 424050 | 24.915 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 14.80 | 232 | 101487 | 21.340 | ng | | 95 |
| 60) Diethylphthalate | 14.99 | 149 | 464917 | 23.042 | ng | | 98 |
| 61) 4-Chlorophenyl-phenylether | 15.20 | 204 | 223279 | 23.196 | ng | | 98 |
| 62) 4-Nitroaniline | 15.26 | 138 | 95134 | 23.180 | ng | # | 73 |
| 63) Azobenzene | 15.50 | 77 | 480911 | 26.139 | ng | | 94 |
| 65) 4,6-Dinitro-2-methylphenol | 15.34 | 198 | 1085 | 0.366 | ng | # | 22 |
| 66) n-Nitrosodiphenylamine | 15.43 | 169 | 365724 | 27.498 | ng | | 98 |
| 67) 4-Bromophenyl-phenylether | 16.10 | 248 | 131032 | 26.900 | ng | | 96 |
| 68) Hexachlorobenzene | 16.21 | 284 | 133830 | 25.079 | ng | # | 93 |
| 69) Atrazine | 16.40 | 200 | 125695 | 27.994 | ng | | 98 |
| 70) Pentachlorophenol | 16.57 | 266 | 115387 | 32.740 | ng | | 97 |
| 71) Phenanthrene | 16.96 | 178 | 583370 | 26.703 | ng | | 100 |
| 72) Anthracene | 17.04 | 178 | 580611 | 26.789 | ng | | 98 |
| 73) Carbazole | 17.33 | 167 | 489180 | 21.990 | ng | | 99 |
| 74) Di-n-butylphthalate | 17.89 | 149 | 696983 | 25.393 | ng | | 99 |
| 75) Fluoranthene | 18.99 | 202 | 584709 | 23.020 | ng | | 98 |
| 77) Benzidine | 19.20 | 184 | 425721 | 46.895 | ng | | 100 |
| 78) Pyrene | 19.35 | 202 | 575586 | 26.983 | ng | | 99 |
| 80) Butylbenzylphthalate | 20.27 | 149 | 264480 | 26.063 | ng | | 91 |
| 81) Benzo(a)anthracene | 21.12 | 228 | 564844 | 27.010 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 21.06 | 252 | 215186 | 25.756 | ng | | 99 |
| 83) Chrysene | 21.17 | 228 | 528381 | 26.269 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phthalate | 21.06 | 149 | 388985 | 25.720 | ng | | 99 |
| 85) Di-n-octyl phthalate | 21.92 | 149 | 679402 | 27.429 | ng | | 98 |
| 86) Indeno(1,2,3-cd)pyrene | 25.44 | 276 | 712724 | 35.571 | ng | | 97 |
| 88) Benzo(b)fluoranthene | 22.66 | 252 | 622633 | 26.650 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 22.70 | 252 | 573130 | 24.632 | ng | | 97 |
| 90) Benzo(a)pyrene | 23.20 | 252 | 591134 | 26.603 | ng | | 97 |
| 91) Dibenzo(a,h)anthracene | 25.44 | 278 | 600805 | 29.188 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 26.09 | 276 | 591440 | 30.397 | ng | | 97 |

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

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