

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM052218\  
 Data File : BM015265.D  
 Acq On : 23 May 2018 06:24  
 Operator : SJ/JU  
 Sample : J2133-02  
 Misc : LOQ 20 PPM  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOQ-SOIL-02-QT2-2018

Quant Time: May 23 07:56:59 2018  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-BM052218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 22 15:47:28 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.40  | 152  | 256184   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.24 | 136  | 1085580  | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.02 | 164  | 560007   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.73 | 188  | 1104654  | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.83 | 240  | 998776   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 24.27 | 264  | 958118   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.89  | 112 | 1932676 | 123.43 | ng | 0.00 |
| 7) Phenol-d6             | 7.55  | 99  | 2566566 | 125.87 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.59  | 82  | 1681950 | 84.87  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.49 | 330 | 918571  | 130.81 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.65 | 172 | 3712698 | 82.42  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.29 | 244 | 4344882 | 96.06  | ng | 0.00 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.62  | 88  | 118974  | 18.391 | ng | # 100  |
| 3) Pyridine                    | 4.07  | 79  | 303799  | 18.332 | ng | 87     |
| 4) n-Nitrosodimethylamine      | 3.98  | 42  | 158154  | 17.638 | ng | # 67   |
| 6) Aniline                     | 7.72  | 93  | 483308  | 19.237 | ng | 96     |
| 8) 2-Chlorophenol              | 7.96  | 128 | 334275  | 18.916 | ng | 98     |
| 9) Benzaldehyde                | 7.53  | 77  | 211893  | 16.429 | ng | 97     |
| 10) Phenol                     | 7.57  | 94  | 393055  | 18.983 | ng | 80     |
| 11) bis(2-Chloroethyl)ether    | 7.81  | 93  | 325568  | 19.822 | ng | 90     |
| 12) 1,3-Dichlorobenzene        | 8.29  | 146 | 400239  | 19.865 | ng | # 96   |
| 13) 1,4-Dichlorobenzene        | 8.44  | 146 | 406559  | 19.957 | ng | 95     |
| 14) 1,2-Dichlorobenzene        | 8.76  | 146 | 390508  | 20.196 | ng | 94     |
| 15) Benzyl Alcohol             | 8.65  | 79  | 294420  | 19.968 | ng | 95     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.93  | 45  | 526082  | 20.303 | ng | 95     |
| 17) 2-Methylphenol             | 8.85  | 107 | 281731  | 20.467 | ng | # 93   |
| 18) Hexachloroethane           | 9.50  | 117 | 143786  | 19.875 | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70  | 270331  | 20.801 | ng | # 88   |
| 20) 3+4-Methylphenols          | 9.17  | 107 | 384223  | 21.022 | ng | 94     |
| 22) Acetophenone               | 9.24  | 105 | 528970  | 20.312 | ng | 94     |
| 24) Nitrobenzene               | 9.63  | 77  | 409308  | 19.836 | ng | 97     |
| 25) Isophorone                 | 10.16 | 82  | 632602  | 18.585 | ng | 96     |
| 26) 2-Nitrophenol              | 10.35 | 139 | 166327  | 17.966 | ng | # 77   |
| 27) 2,4-Dimethylphenol         | 10.39 | 122 | 267149  | 15.910 | ng | 92     |
| 28) bis(2-Chloroethoxy)methane | 10.63 | 93  | 411575  | 18.466 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.88 | 162 | 297660  | 18.721 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 11.10 | 180 | 376447  | 20.096 | ng | 98     |
| 31) Naphthalene                | 11.29 | 128 | 1099781 | 19.491 | ng | 100    |
| 32) Benzoic acid               | 10.52 | 122 | 199223  | 20.511 | ng | 93     |
| 33) 4-Chloroaniline            | 11.40 | 127 | 434795  | 19.309 | ng | # 91   |
| 34) Hexachlorobutadiene        | 11.56 | 225 | 230141  | 20.660 | ng | 96     |
| 35) Caprolactam                | 12.17 | 113 | 80176   | 17.816 | ng | 97     |
| 36) 4-Chloro-3-methylphenol    | 12.49 | 107 | 304735  | 18.761 | ng | 90     |
| 37) 2-Methylnaphthalene        | 12.87 | 142 | 754065  | 19.284 | ng | 97     |
| 39) 1,2,4,5-Tetrachlorobenzene | 13.23 | 216 | 391687  | 19.857 | ng | # 100  |
| 40) Hexachlorocyclopentadiene  | 13.20 | 237 | 176037  | 18.026 | ng | 99     |

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 QLast Update : Tue May 22 15:47:28 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 42) 2,4,6-Trichlorophenol      | 13.46 | 196  | 221981   | 18.727 | ng    | 100      |
| 43) 2,4,5-Trichlorophenol      | 13.54 | 196  | 252991   | 19.766 | ng    | # 90     |
| 45) 1,1'-Biphenyl              | 13.86 | 154  | 1005531  | 20.522 | ng    | 98       |
| 46) 2-Chloronaphthalene        | 13.91 | 162  | 757385   | 20.085 | ng    | 95       |
| 47) 2-Nitroaniline             | 14.11 | 65   | 201825   | 18.786 | ng    | 88       |
| 48) Acenaphthylene             | 14.74 | 152  | 1133223  | 20.231 | ng    | 100      |
| 49) Dimethylphthalate          | 14.46 | 163  | 899580   | 20.128 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 14.59 | 165  | 184793   | 19.819 | ng    | 95       |
| 51) Acenaphthene               | 15.08 | 154  | 701113   | 20.094 | ng    | 99       |
| 52) 3-Nitroaniline             | 14.92 | 138  | 184446   | 18.786 | ng    | # 79     |
| 53) 2,4-Dinitrophenol          | 15.13 | 184  | 66914    | 17.573 | ng    | 89       |
| 54) Dibenzofuran               | 15.41 | 168  | 1039591  | 18.897 | ng    | 94       |
| 55) 4-Nitrophenol              | 15.21 | 139  | 128434   | 16.128 | ng    | # 57     |
| 56) 2,4-Dinitrotoluene         | 15.37 | 165  | 233771   | 18.309 | ng    | # 81     |
| 57) Fluorene                   | 16.05 | 166  | 845129   | 19.439 | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.63 | 232  | 186183   | 16.963 | ng    | # 100    |
| 59) Diethylphthalate           | 15.80 | 149  | 885097   | 20.090 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 16.03 | 204  | 428836   | 19.365 | ng    | 95       |
| 61) 4-Nitroaniline             | 16.07 | 138  | 183109   | 17.838 | ng    | # 70     |
| 62) Azobenzene                 | 16.33 | 77   | 835320   | 19.959 | ng    | 91       |
| 64) 4,6-Dinitro-2-methylphenol | 16.13 | 198  | 116867   | 19.168 | ng    | 93       |
| 65) n-Nitrosodiphenylamine     | 16.24 | 169  | 718269   | 20.236 | ng    | 100      |
| 66) 4-Bromophenyl-phenylether  | 16.92 | 248  | 249707   | 20.233 | ng    | # 91     |
| 67) Hexachlorobenzene          | 17.04 | 284  | 293530   | 20.653 | ng    | # 90     |
| 68) Atrazine                   | 17.17 | 200  | 124997   | 11.102 | ng    | 98       |
| 69) Pentachlorophenol          | 17.38 | 266  | 147361   | 18.626 | ng    | 97       |
| 70) Phenanthrene               | 17.77 | 178  | 1226879  | 19.499 | ng    | 99       |
| 71) Anthracene                 | 17.87 | 178  | 1194682  | 19.048 | ng    | 99       |
| 72) Carbazole                  | 18.13 | 167  | 1092585  | 19.677 | ng    | 99       |
| 73) Di-n-butylphthalate        | 18.65 | 149  | 1344980  | 20.574 | ng    | 99       |
| 74) Fluoranthene               | 19.75 | 202  | 1289275  | 18.683 | ng    | 97       |
| 76) Benzidine                  | 19.92 | 184  | 401532   | 12.842 | ng    | 98       |
| 77) Pyrene                     | 20.10 | 202  | 1339651  | 21.252 | ng    | 99       |
| 79) Butylbenzylphthalate       | 20.95 | 149  | 536239   | 20.834 | ng    | 90       |
| 80) Benzo(a)anthracene         | 21.82 | 228  | 1241072  | 19.719 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.74 | 252  | 443712   | 19.039 | ng    | 99       |
| 82) Chrysene                   | 21.87 | 228  | 1176590  | 19.849 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.70 | 149  | 790348   | 21.111 | ng    | 98       |
| 84) Di-n-octyl phthalate       | 22.63 | 149  | 1175945  | 17.959 | ng    | # 94     |
| 85) Indeno(1,2,3-cd)pyrene     | 26.79 | 276  | 1302971  | 18.169 | ng    | # 91     |
| 87) Benzo(b)fluoranthene       | 23.53 | 252  | 1191813  | 19.660 | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 23.57 | 252  | 1143384  | 19.939 | ng    | 100      |
| 89) Benzo(a)pyrene             | 24.16 | 252  | 1083594  | 19.163 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene     | 26.80 | 278  | 1112653  | 19.287 | ng    | 98       |
| 91) Benzo(g,h,i)perylene       | 27.56 | 276  | 1058516  | 18.839 | ng    | 97       |
| -----                          |       |      |          |        |       |          |

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

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