

Data Path : Z:\HPCHEM1\BNA F\DATA\BF033115\  
 Data File : BF078119.D  
 Acq On : 31 Mar 2015 17:39  
 Operator : TP/IZ  
 Sample : G1704-01MSD  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-11(0-10)MSD

Quant Time: Apr 01 01:53:21 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 01 00:51:03 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.05  | 152  | 39374    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.62  | 136  | 163584   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.78 | 164  | 84743    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.63 | 188  | 162750   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 15.91 | 240  | 161220   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12          | 17.68 | 264  | 146779   | 20.00 | ng    | 0.07     |

## System Monitoring Compounds

|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 5.33  | 112 | 255007 | 113.05 | ng | 0.00 |
| 7) Phenol-d6             | 6.64  | 99  | 333520 | 119.67 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.74  | 82  | 196939 | 78.92  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 11.77 | 330 | 82037  | 101.18 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.97  | 172 | 421168 | 73.04  | ng | 0.00 |
| 78) Terphenyl-d14        | 14.61 | 244 | 450652 | 68.28  | ng | 0.00 |

## Target Compounds

|                                |      |     |        |       |    | Qvalue |
|--------------------------------|------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 1.90 | 88  | 31002  | 30.27 | ng | # 100  |
| 3) Pyridine                    | 2.58 | 79  | 45263  | 16.45 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 2.49 | 42  | 41106m | 34.31 | ng |        |
| 6) Aniline                     | 6.64 | 93  | 93966  | 23.57 | ng | # 83   |
| 8) 2-Chlorophenol              | 6.78 | 128 | 100872 | 37.57 | ng | 90     |
| 9) Benzaldehyde                | 6.50 | 77  | 3278   | 2.87  | ng | 83     |
| 10) Phenol                     | 6.65 | 94  | 126047 | 38.26 | ng | 79     |
| 11) bis(2-Chloroethyl)ether    | 6.74 | 93  | 93396  | 37.85 | ng | 90     |
| 12) 1,3-Dichlorobenzene        | 6.97 | 146 | 105804 | 35.43 | ng | 100    |
| 13) 1,4-Dichlorobenzene        | 7.07 | 146 | 104076 | 33.54 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 7.25 | 146 | 99310  | 34.91 | ng | 99     |
| 15) Benzyl Alcohol             | 7.24 | 79  | 81320  | 37.38 | ng | 95     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.41 | 45  | 121459 | 36.52 | ng | 98     |
| 17) 2-Methylphenol             | 7.40 | 107 | 78798  | 36.05 | ng | 96     |
| 18) Hexachloroethane           | 7.66 | 117 | 35273  | 34.66 | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 7.57 | 70  | 74066  | 38.42 | ng | # 94   |
| 20) 3+4-Methylphenols          | 7.60 | 107 | 110562 | 38.55 | ng | 99     |
| 22) Acetophenone               | 7.56 | 105 | 144038 | 39.77 | ng | # 92   |
| 24) Nitrobenzene               | 7.77 | 77  | 103020 | 38.32 | ng | # 87   |
| 25) Isophorone                 | 8.06 | 82  | 188545 | 37.41 | ng | 94     |
| 26) 2-Nitrophenol              | 8.16 | 139 | 48832  | 37.10 | ng | # 84   |
| 27) 2,4-Dimethylphenol         | 8.24 | 122 | 88719  | 37.00 | ng | 96     |
| 28) bis(2-Chloroethoxy)methane | 8.35 | 93  | 116696 | 38.15 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 8.46 | 162 | 91079  | 39.85 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 8.56 | 180 | 91593  | 35.82 | ng | 99     |
| 31) Naphthalene                | 8.65 | 128 | 307501 | 36.60 | ng | 100    |
| 32) Benzoic acid               | 8.36 | 122 | 44361  | 34.12 | ng | 95     |
| 33) 4-Chloroaniline            | 8.73 | 127 | 87582  | 25.69 | ng | # 90   |
| 34) Hexachlorobutadiene        | 8.81 | 225 | 48659  | 33.57 | ng | 98     |
| 35) Caprolactam                | 9.15 | 113 | 25529  | 38.22 | ng | 96     |
| 36) 4-Chloro-3-methylphenol    | 9.36 | 107 | 89800  | 39.05 | ng | 98     |
| 37) 2-Methylnaphthalene        | 9.50 | 142 | 211500 | 37.47 | ng | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.71 | 216 | 88651  | 35.07 | ng | # 100  |
| 40) Hexachlorocyclopentadiene  | 9.70 | 237 | 84082  | 66.99 | ng | 99     |

Data Path : Z:\HPCHEM1\BNA F\DATA\BF033115\  
 Data File : BF078119.D  
 Acq On : 31 Mar 2015 17:39  
 Operator : TP/IZ  
 Sample : G1704-01MSD  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-11(0-10)MSD

Quant Time: Apr 01 01:53:21 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 01 00:51:03 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.87  | 196  | 59405    | 33.93 | nq    | 98       |
| 43) 2,4,5-Trichlorophenol      | 9.92  | 196  | 69653    | 36.82 | nq #  | 92       |
| 45) 1,1'-Biphenyl              | 10.09 | 154  | 247179   | 36.49 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 10.11 | 162  | 195015   | 35.42 | nq    | 98       |
| 47) 2-Nitroaniline             | 10.25 | 65   | 52821    | 38.63 | nq    | 89       |
| 48) Acenaphthylene             | 10.61 | 152  | 312515   | 34.14 | nq    | 99       |
| 49) Dimethylphthalate          | 10.49 | 163  | 270771   | 43.08 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 10.56 | 165  | 51560    | 39.57 | nq #  | 87       |
| 51) Acenaphthene               | 10.83 | 154  | 185402   | 35.32 | nq    | 100      |
| 52) 3-Nitroaniline             | 10.76 | 138  | 47812    | 31.60 | nq    | 94       |
| 53) 2,4-Dinitrophenol          | 10.89 | 184  | 33287    | 70.60 | nq    | 95       |
| 54) Dibenzofuran               | 11.05 | 168  | 280971   | 36.09 | nq    | 99       |
| 55) 4-Nitrophenol              | 10.99 | 139  | 76780    | 68.50 | nq #  | 74       |
| 56) 2,4-Dinitrotoluene         | 11.05 | 165  | 66586    | 39.19 | nq    | 87       |
| 57) Fluorene                   | 11.47 | 166  | 232862   | 36.02 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 11.21 | 232  | 50922    | 34.96 | nq #  | 100      |
| 59) Diethylphthalate           | 11.36 | 149  | 228160   | 37.26 | nq    | 96       |
| 60) 4-Chlorophenyl-phenylether | 11.48 | 204  | 106882   | 36.23 | nq    | 99       |
| 61) 4-Nitroaniline             | 11.50 | 138  | 52226    | 34.63 | nq    | 78       |
| 62) Azobenzene                 | 11.68 | 77   | 217985   | 37.24 | nq    | 98       |
| 64) 4,6-Dinitro-2-methylphenol | 11.55 | 198  | 26373    | 35.55 | nq    | 80       |
| 65) n-Nitrosodiphenylamine     | 11.63 | 169  | 198615   | 36.65 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 12.09 | 248  | 63088    | 36.32 | nq    | 97       |
| 67) Hexachlorobenzene          | 12.13 | 284  | 65805    | 34.48 | nq #  | 76       |
| 68) Atrazine                   | 12.31 | 200  | 59472    | 39.16 | nq    | 94       |
| 69) Pentachlorophenol          | 12.40 | 266  | 59309    | 60.13 | nq    | 98       |
| 70) Phenanthrene               | 12.65 | 178  | 329100   | 35.22 | nq    | 100      |
| 71) Anthracene                 | 12.72 | 178  | 333197   | 36.10 | nq    | 99       |
| 72) Carbazole                  | 12.93 | 167  | 325065   | 37.02 | nq    | 98       |
| 73) Di-n-butylphthalate        | 13.39 | 149  | 376504   | 38.24 | nq    | 98       |
| 74) Fluoranthene               | 14.12 | 202  | 354761   | 34.43 | nq    | 96       |
| 76) Benzidine                  | 14.32 | 184  | 50133    | 12.23 | nq    | 99       |
| 77) Pyrene                     | 14.40 | 202  | 354129   | 34.93 | nq    | 99       |
| 79) Butylbenzylphthalate       | 15.24 | 149  | 153218   | 38.33 | nq    | 94       |
| 80) Benzo(a)anthracene         | 15.89 | 228  | 326288   | 34.14 | nq    | 100      |
| 81) 3,3'-Dichlorobenzidine     | 15.88 | 252  | 100018   | 31.73 | nq    | 98       |
| 82) Chrysene                   | 15.94 | 228  | 311183   | 36.21 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 15.97 | 149  | 240174   | 39.67 | nq #  | 96       |
| 84) Di-n-octyl phthalate       | 16.79 | 149  | 395775   | 38.23 | nq    | 100      |
| 85) Indeno(1,2,3-cd)pyrene     | 19.01 | 276  | 325160   | 30.32 | nq #  | 100      |
| 87) Benzo(b)fluoranthene       | 17.22 | 252  | 304047   | 31.73 | nq    | 98       |
| 88) Benzo(k)fluoranthene       | 17.25 | 252  | 316791m  | 42.33 | nq    |          |
| 89) Benzo(a)pyrene             | 17.61 | 252  | 291234   | 36.43 | nq #  | 97       |
| 90) Dibenzo(a,h)anthracene     | 19.05 | 278  | 268723   | 33.89 | nq    | 99       |
| 91) Benzo(g,h,i)perylene       | 19.40 | 276  | 270967   | 33.56 | nq    | 98       |

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

