

Data Path : P:\HPCHEM1\FID\_F\Data\FF032218\  
 Data File : FF000299.D  
 Signal(s) : FID2B.ch  
 Acq On : 22 Mar 2018 14:36  
 Sample : J1991-01  
 Misc :  
 ALS Vial : 55 Sample Multiplier: 1

Integration File: Sample.e

Method : P:\HPCHEM1\FID\_F\Method\FF031518.M  
 Title :

Signal : FID2B.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 2.268       | 2.242        | 2.290      | BH       | 195            | 1170         | 0.05%          | 0.001%        |
| 2         | 2.299       | 2.290        | 2.312      | PH       | 36             | -70          | -0.00%         | -0.000%       |
| 3         | 2.318       | 2.312        | 2.326      | PH       | 2              | -312         | -0.01%         | -0.000%       |
| 4         | 2.333       | 2.326        | 2.347      | PH       | -27            | -803         | -0.03%         | -0.001%       |
| 5         | 2.352       | 2.347        | 2.405      | PH       | -66            | -3329        | -0.13%         | -0.002%       |
| 6         | 2.457       | 2.405        | 2.465      | PH       | 8              | -2338        | -0.09%         | -0.002%       |
| 7         | 2.469       | 2.465        | 2.484      | PH       | 12             | -549         | -0.02%         | -0.000%       |
| 8         | 2.510       | 2.484        | 2.532      | PH       | 670            | 4402         | 0.17%          | 0.003%        |
| 9         | 2.541       | 2.532        | 2.560      | HH       | 192            | 889          | 0.03%          | 0.001%        |
| 10        | 2.565       | 2.560        | 2.571      | PH       | 5              | -250         | -0.01%         | -0.000%       |
| 11        | 2.576       | 2.571        | 2.587      | PH       | 3              | -173         | -0.01%         | -0.000%       |
| 12        | 2.597       | 2.587        | 2.613      | PH       | 155            | 324          | 0.01%          | 0.000%        |
| 13        | 2.623       | 2.613        | 2.653      | PH       | -6             | -1720        | -0.07%         | -0.001%       |
| 14        | 2.659       | 2.653        | 2.664      | PH       | -114           | -809         | -0.03%         | -0.001%       |
| 15        | 2.668       | 2.664        | 2.679      | PH       | -96            | -1270        | -0.05%         | -0.001%       |
| 16        | 2.682       | 2.679        | 2.712      | PH       | -97            | -2999        | -0.12%         | -0.002%       |
| 17        | 2.739       | 2.712        | 2.763      | PH       | 403            | 1954         | 0.08%          | 0.001%        |
| 18        | 2.774       | 2.763        | 2.802      | PH       | -124           | -3695        | -0.14%         | -0.003%       |
| 19        | 2.819       | 2.802        | 2.876      | PH       | 522            | 1546         | 0.06%          | 0.001%        |
| 20        | 2.901       | 2.876        | 2.907      | PH       | -96            | -2583        | -0.10%         | -0.002%       |
| 21        | 2.925       | 2.907        | 2.949      | PH       | -8             | -1917        | -0.07%         | -0.001%       |
| 22        | 2.957       | 2.949        | 2.965      | PH       | -59            | -889         | -0.03%         | -0.001%       |
| 23        | 2.999       | 2.965        | 3.020      | PH       | 179            | -865         | -0.03%         | -0.001%       |
| 24        | 3.026       | 3.020        | 3.028      | PH       | -121           | -652         | -0.03%         | -0.000%       |
| 25        | 3.047       | 3.028        | 3.069      | PH       | 309            | 71           | 0.00%          | 0.000%        |
| 26        | 3.084       | 3.069        | 3.102      | PH       | -1             | -2192        | -0.09%         | -0.002%       |
| 27        | 3.110       | 3.102        | 3.131      | PH       | -60            | -1975        | -0.08%         | -0.001%       |
| 28        | 3.141       | 3.131        | 3.166      | PH       | -106           | -3788        | -0.15%         | -0.003%       |
| 29        | 3.180       | 3.166        | 3.229      | PH       | 3622           | 33504        | 1.31%          | 0.024%        |
| 30        | 3.239       | 3.229        | 3.263      | PH       | 8              | -1924        | -0.08%         | -0.001%       |
| 31        | 3.299       | 3.263        | 3.331      | PH       | 627            | 1165         | 0.05%          | 0.001%        |
| 32        | 3.340       | 3.331        | 3.362      | PH       | -127           | -3504        | -0.14%         | -0.003%       |
| 33        | 3.370       | 3.362        | 3.383      | PH       | -167           | -2830        | -0.11%         | -0.002%       |
| 34        | 3.396       | 3.383        | 3.412      | PH       | -190           | -4139        | -0.16%         | -0.003%       |
| 35        | 3.421       | 3.412        | 3.437      | PH       | -175           | -3159        | -0.12%         | -0.002%       |
| 36        | 3.462       | 3.437        | 3.467      | PH       | -49            | -2912        | -0.11%         | -0.002%       |

|    |       |       |       |    |            |       |        |         |
|----|-------|-------|-------|----|------------|-------|--------|---------|
|    |       |       |       |    | rteres.txt |       |        |         |
| 37 | 3.490 | 3.467 | 3.552 | PH | 79         | -6772 | -0.26% | -0.005% |
| 38 | 3.574 | 3.552 | 3.585 | PH | -36        | -2168 | -0.08% | -0.002% |
| 39 | 3.597 | 3.585 | 3.620 | PH | 224        | -121  | -0.00% | -0.000% |
| 40 | 3.628 | 3.620 | 3.660 | PH | -105       | -4717 | -0.18% | -0.003% |
| 41 | 3.677 | 3.660 | 3.696 | PH | 91         | -1405 | -0.05% | -0.001% |
| 42 | 3.709 | 3.696 | 3.737 | PH | -10        | -3418 | -0.13% | -0.002% |
| 43 | 3.747 | 3.737 | 3.758 | PH | -125       | -2302 | -0.09% | -0.002% |
| 44 | 3.767 | 3.758 | 3.777 | PH | -148       | -2262 | -0.09% | -0.002% |
| 45 | 3.796 | 3.777 | 3.807 | PH | 387        | 957   | 0.04%  | 0.001%  |
| 46 | 3.816 | 3.807 | 3.830 | PH | 80         | -931  | -0.04% | -0.001% |
| 47 | 3.843 | 3.830 | 3.865 | PH | -27        | -3818 | -0.15% | -0.003% |
| 48 | 3.880 | 3.865 | 3.938 | PH | 163        | -5501 | -0.21% | -0.004% |
| 49 | 3.964 | 3.938 | 3.988 | PH | 2693       | 28975 | 1.13%  | 0.021%  |
| 50 | 3.998 | 3.988 | 4.023 | HH | 457        | 4489  | 0.18%  | 0.003%  |
| 51 | 4.031 | 4.023 | 4.049 | PH | 61         | 161   | 0.01%  | 0.000%  |
| 52 | 4.066 | 4.049 | 4.100 | PH | 284        | -546  | -0.02% | -0.000% |
| 53 | 4.134 | 4.100 | 4.162 | PH | 842        | 5492  | 0.21%  | 0.004%  |
| 54 | 4.176 | 4.162 | 4.198 | PH | 191        | 953   | 0.04%  | 0.001%  |
| 55 | 4.204 | 4.198 | 4.208 | PH | -47        | -473  | -0.02% | -0.000% |
| 56 | 4.214 | 4.208 | 4.227 | PH | -29        | -722  | -0.03% | -0.001% |
| 57 | 4.235 | 4.227 | 4.245 | PH | -30        | -1022 | -0.04% | -0.001% |
| 58 | 4.248 | 4.245 | 4.256 | PH | -138       | -974  | -0.04% | -0.001% |
| 59 | 4.290 | 4.256 | 4.309 | PH | -1         | -2950 | -0.12% | -0.002% |
| 60 | 4.328 | 4.309 | 4.347 | PH | 84         | -919  | -0.04% | -0.001% |
| 61 | 4.372 | 4.347 | 4.399 | PH | 2308       | 19696 | 0.77%  | 0.014%  |
| 62 | 4.415 | 4.399 | 4.429 | PH | 338        | 1897  | 0.07%  | 0.001%  |
| 63 | 4.444 | 4.429 | 4.461 | PH | 137        | 493   | 0.02%  | 0.000%  |
| 64 | 4.476 | 4.461 | 4.504 | PH | 84         | -1244 | -0.05% | -0.001% |
| 65 | 4.523 | 4.504 | 4.555 | PH | 937        | 7771  | 0.30%  | 0.006%  |
| 66 | 4.572 | 4.555 | 4.585 | PH | 263        | 2215  | 0.09%  | 0.002%  |
| 67 | 4.596 | 4.585 | 4.612 | HH | 87         | 666   | 0.03%  | 0.000%  |
| 68 | 4.627 | 4.612 | 4.642 | PH | 639        | 3939  | 0.15%  | 0.003%  |
| 69 | 4.655 | 4.642 | 4.669 | PH | 141        | -38   | -0.00% | -0.000% |
| 70 | 4.681 | 4.669 | 4.692 | PH | 43         | -434  | -0.02% | -0.000% |
| 71 | 4.723 | 4.692 | 4.735 | PH | 117        | 624   | 0.02%  | 0.000%  |
| 72 | 4.749 | 4.735 | 4.766 | PH | 518        | 3593  | 0.14%  | 0.003%  |
| 73 | 4.789 | 4.766 | 4.811 | PH | 607        | 5889  | 0.23%  | 0.004%  |
| 74 | 4.825 | 4.811 | 4.835 | PH | 306        | 1628  | 0.06%  | 0.001%  |
| 75 | 4.845 | 4.835 | 4.880 | HH | 335        | 1720  | 0.07%  | 0.001%  |
| 76 | 4.900 | 4.880 | 4.912 | PH | 110        | -1040 | -0.04% | -0.001% |
| 77 | 4.924 | 4.912 | 4.951 | PH | -85        | -3055 | -0.12% | -0.002% |
| 78 | 4.969 | 4.951 | 4.994 | PH | 310        | 2888  | 0.11%  | 0.002%  |
| 79 | 5.013 | 4.994 | 5.038 | PH | 477        | 3869  | 0.15%  | 0.003%  |
| 80 | 5.066 | 5.038 | 5.077 | PH | 489        | 5265  | 0.21%  | 0.004%  |
| 81 | 5.090 | 5.077 | 5.102 | HH | 572        | 4657  | 0.18%  | 0.003%  |
| 82 | 5.115 | 5.102 | 5.134 | HH | 405        | 2885  | 0.11%  | 0.002%  |
| 83 | 5.139 | 5.134 | 5.160 | PH | -28        | -1743 | -0.07% | -0.001% |
| 84 | 5.166 | 5.160 | 5.169 | PH | -150       | -1006 | -0.04% | -0.001% |
| 85 | 5.174 | 5.169 | 5.194 | PH | -121       | -2467 | -0.10% | -0.002% |
| 86 | 5.209 | 5.194 | 5.217 | PH | 91         | -176  | -0.01% | -0.000% |
| 87 | 5.232 | 5.217 | 5.258 | PH | 491        | 5952  | 0.23%  | 0.004%  |
| 88 | 5.280 | 5.258 | 5.289 | PH | 233        | 2279  | 0.09%  | 0.002%  |
| 89 | 5.301 | 5.289 | 5.322 | HH | 399        | 2870  | 0.11%  | 0.002%  |

|     |       |       |       |    |            |        |        |         |
|-----|-------|-------|-------|----|------------|--------|--------|---------|
|     |       |       |       |    | rteres.txt |        |        |         |
| 90  | 5.336 | 5.322 | 5.351 | PH | -9         | -904   | -0.04% | -0.001% |
| 91  | 5.359 | 5.351 | 5.381 | PH | 26         | -1801  | -0.07% | -0.001% |
| 92  | 5.409 | 5.381 | 5.427 | PH | 3599       | 32744  | 1.28%  | 0.024%  |
| 93  | 5.438 | 5.427 | 5.462 | HH | 590        | 5947   | 0.23%  | 0.004%  |
| 94  | 5.480 | 5.462 | 5.519 | PH | 1          | -3287  | -0.13% | -0.002% |
| 95  | 5.528 | 5.519 | 5.554 | PH | -55        | -2137  | -0.08% | -0.002% |
| 96  | 5.594 | 5.554 | 5.616 | PH | 980        | 10218  | 0.40%  | 0.007%  |
| 97  | 5.623 | 5.616 | 5.637 | HH | 99         | 278    | 0.01%  | 0.000%  |
| 98  | 5.657 | 5.637 | 5.672 | PH | 285        | 2556   | 0.10%  | 0.002%  |
| 99  | 5.691 | 5.672 | 5.702 | HH | 1054       | 11488  | 0.45%  | 0.008%  |
| 100 | 5.708 | 5.702 | 5.731 | HH | 769        | 6524   | 0.25%  | 0.005%  |
| 101 | 5.745 | 5.731 | 5.767 | PH | 401        | 4208   | 0.16%  | 0.003%  |
| 102 | 5.781 | 5.767 | 5.795 | PH | 621        | 5230   | 0.20%  | 0.004%  |
| 103 | 5.819 | 5.795 | 5.846 | HH | 351        | 3729   | 0.15%  | 0.003%  |
| 104 | 5.864 | 5.846 | 5.885 | PH | 416        | 2648   | 0.10%  | 0.002%  |
| 105 | 5.916 | 5.885 | 5.935 | PH | 522        | 7905   | 0.31%  | 0.006%  |
| 106 | 5.956 | 5.935 | 5.980 | HH | 7893       | 79348  | 3.10%  | 0.057%  |
| 107 | 6.004 | 5.980 | 6.026 | HH | 1129       | 15610  | 0.61%  | 0.011%  |
| 108 | 6.050 | 6.026 | 6.073 | HH | 787        | 11903  | 0.46%  | 0.009%  |
| 109 | 6.110 | 6.073 | 6.159 | HH | 2319       | 48391  | 1.89%  | 0.035%  |
| 110 | 6.175 | 6.159 | 6.197 | HH | 848        | 13178  | 0.51%  | 0.009%  |
| 111 | 6.201 | 6.197 | 6.217 | HH | 555        | 5741   | 0.22%  | 0.004%  |
| 112 | 6.230 | 6.217 | 6.259 | HH | 623        | 11600  | 0.45%  | 0.008%  |
| 113 | 6.269 | 6.259 | 6.285 | HH | 495        | 6444   | 0.25%  | 0.005%  |
| 114 | 6.325 | 6.285 | 6.357 | HH | 1063       | 23680  | 0.93%  | 0.017%  |
| 115 | 6.388 | 6.357 | 6.435 | HH | 3560       | 50347  | 1.97%  | 0.036%  |
| 116 | 6.479 | 6.435 | 6.488 | HH | 515        | 9529   | 0.37%  | 0.007%  |
| 117 | 6.503 | 6.488 | 6.520 | HH | 796        | 11136  | 0.44%  | 0.008%  |
| 118 | 6.537 | 6.520 | 6.559 | HH | 1841       | 23028  | 0.90%  | 0.017%  |
| 119 | 6.582 | 6.559 | 6.600 | HH | 1030       | 16332  | 0.64%  | 0.012%  |
| 120 | 6.610 | 6.600 | 6.624 | HH | 520        | 5693   | 0.22%  | 0.004%  |
| 121 | 6.665 | 6.624 | 6.685 | HH | 1210       | 21525  | 0.84%  | 0.015%  |
| 122 | 6.712 | 6.685 | 6.735 | HH | 796        | 17075  | 0.67%  | 0.012%  |
| 123 | 6.748 | 6.735 | 6.754 | HH | 513        | 5312   | 0.21%  | 0.004%  |
| 124 | 6.787 | 6.754 | 6.813 | HH | 1940       | 31781  | 1.24%  | 0.023%  |
| 125 | 6.823 | 6.813 | 6.838 | HH | 566        | 7035   | 0.27%  | 0.005%  |
| 126 | 6.855 | 6.838 | 6.870 | HH | 718        | 10993  | 0.43%  | 0.008%  |
| 127 | 6.887 | 6.870 | 6.897 | HH | 1115       | 14126  | 0.55%  | 0.010%  |
| 128 | 6.909 | 6.897 | 6.928 | HH | 1432       | 20280  | 0.79%  | 0.015%  |
| 129 | 6.947 | 6.928 | 6.975 | HH | 1804       | 29259  | 1.14%  | 0.021%  |
| 130 | 7.011 | 6.975 | 7.030 | HH | 3979       | 67594  | 2.64%  | 0.049%  |
| 131 | 7.041 | 7.030 | 7.054 | HH | 1914       | 24553  | 0.96%  | 0.018%  |
| 132 | 7.063 | 7.054 | 7.074 | HH | 1746       | 19016  | 0.74%  | 0.014%  |
| 133 | 7.090 | 7.074 | 7.126 | HH | 3270       | 57614  | 2.25%  | 0.041%  |
| 134 | 7.144 | 7.126 | 7.170 | HH | 3103       | 43637  | 1.70%  | 0.031%  |
| 135 | 7.191 | 7.170 | 7.207 | HH | 1332       | 22610  | 0.88%  | 0.016%  |
| 136 | 7.212 | 7.207 | 7.237 | HH | 876        | 14504  | 0.57%  | 0.010%  |
| 137 | 7.241 | 7.237 | 7.252 | HH | 801        | 6675   | 0.26%  | 0.005%  |
| 138 | 7.310 | 7.252 | 7.337 | HH | 5499       | 112945 | 4.41%  | 0.081%  |
| 139 | 7.352 | 7.337 | 7.376 | HH | 1466       | 30447  | 1.19%  | 0.022%  |
| 140 | 7.382 | 7.376 | 7.388 | HH | 1284       | 8981   | 0.35%  | 0.006%  |
| 141 | 7.398 | 7.388 | 7.415 | HH | 1391       | 20048  | 0.78%  | 0.014%  |

| rteres.txt |       |       |       |    |       |        |        |        |
|------------|-------|-------|-------|----|-------|--------|--------|--------|
| 142        | 7.448 | 7.415 | 7.460 | HH | 1157  | 28780  | 1.12%  | 0.021% |
| 143        | 7.484 | 7.460 | 7.517 | HH | 2613  | 59212  | 2.31%  | 0.043% |
| 144        | 7.536 | 7.517 | 7.554 | HH | 1545  | 25314  | 0.99%  | 0.018% |
| 145        | 7.581 | 7.554 | 7.585 | HH | 1258  | 19193  | 0.75%  | 0.014% |
| 146        | 7.601 | 7.585 | 7.612 | HH | 1627  | 23299  | 0.91%  | 0.017% |
| 147        | 7.625 | 7.612 | 7.631 | HH | 1733  | 18078  | 0.71%  | 0.013% |
| 148        | 7.641 | 7.631 | 7.661 | HH | 1644  | 26346  | 1.03%  | 0.019% |
| 149        | 7.678 | 7.661 | 7.685 | HH | 1353  | 17751  | 0.69%  | 0.013% |
| 150        | 7.732 | 7.685 | 7.754 | HH | 4570  | 103219 | 4.03%  | 0.074% |
| 151        | 7.762 | 7.754 | 7.777 | HH | 2378  | 30320  | 1.18%  | 0.022% |
| 152        | 7.786 | 7.777 | 7.802 | HH | 2125  | 28927  | 1.13%  | 0.021% |
| 153        | 7.827 | 7.802 | 7.849 | HH | 2300  | 53266  | 2.08%  | 0.038% |
| 154        | 7.878 | 7.849 | 7.898 | HH | 2878  | 67640  | 2.64%  | 0.049% |
| 155        | 7.915 | 7.898 | 7.925 | HH | 3554  | 48837  | 1.91%  | 0.035% |
| 156        | 7.932 | 7.925 | 7.963 | HH | 3505  | 54278  | 2.12%  | 0.039% |
| 157        | 8.000 | 7.963 | 8.039 | HH | 5864  | 133993 | 5.23%  | 0.096% |
| 158        | 8.058 | 8.039 | 8.075 | HH | 2938  | 52306  | 2.04%  | 0.038% |
| 159        | 8.102 | 8.075 | 8.118 | HH | 5302  | 90959  | 3.55%  | 0.065% |
| 160        | 8.130 | 8.118 | 8.148 | HH | 3946  | 57949  | 2.26%  | 0.042% |
| 161        | 8.178 | 8.148 | 8.207 | HH | 12615 | 198383 | 7.75%  | 0.143% |
| 162        | 8.236 | 8.207 | 8.262 | HH | 52038 | 570913 | 22.30% | 0.411% |
| 163        | 8.284 | 8.262 | 8.312 | HH | 5370  | 114272 | 4.46%  | 0.082% |
| 164        | 8.340 | 8.312 | 8.356 | HH | 4242  | 86490  | 3.38%  | 0.062% |
| 165        | 8.367 | 8.356 | 8.384 | HH | 3290  | 51004  | 1.99%  | 0.037% |
| 166        | 8.399 | 8.384 | 8.415 | HH | 3429  | 56063  | 2.19%  | 0.040% |
| 167        | 8.423 | 8.415 | 8.439 | HH | 2750  | 36496  | 1.43%  | 0.026% |
| 168        | 8.467 | 8.439 | 8.496 | HH | 2664  | 80225  | 3.13%  | 0.058% |
| 169        | 8.507 | 8.496 | 8.514 | HH | 2209  | 23019  | 0.90%  | 0.017% |
| 170        | 8.537 | 8.514 | 8.556 | HH | 3360  | 72972  | 2.85%  | 0.053% |
| 171        | 8.580 | 8.556 | 8.610 | HH | 15974 | 236657 | 9.24%  | 0.170% |
| 172        | 8.630 | 8.610 | 8.652 | HH | 5601  | 112909 | 4.41%  | 0.081% |
| 173        | 8.669 | 8.652 | 8.683 | HH | 4373  | 73658  | 2.88%  | 0.053% |
| 174        | 8.714 | 8.683 | 8.737 | HH | 10452 | 198934 | 7.77%  | 0.143% |
| 175        | 8.766 | 8.737 | 8.782 | HH | 4756  | 99071  | 3.87%  | 0.071% |
| 176        | 8.794 | 8.782 | 8.803 | HH | 3566  | 43020  | 1.68%  | 0.031% |
| 177        | 8.821 | 8.803 | 8.834 | HH | 5308  | 81278  | 3.17%  | 0.058% |
| 178        | 8.852 | 8.834 | 8.881 | HH | 14381 | 213391 | 8.34%  | 0.154% |
| 179        | 8.891 | 8.881 | 8.904 | HH | 3608  | 46797  | 1.83%  | 0.034% |
| 180        | 8.944 | 8.904 | 8.959 | HH | 4488  | 127346 | 4.97%  | 0.092% |
| 181        | 8.998 | 8.959 | 9.019 | HH | 26229 | 389632 | 15.22% | 0.280% |
| 182        | 9.029 | 9.019 | 9.067 | HH | 6152  | 126196 | 4.93%  | 0.091% |
| 183        | 9.085 | 9.067 | 9.108 | HH | 4658  | 97405  | 3.80%  | 0.070% |
| 184        | 9.144 | 9.108 | 9.162 | HH | 5724  | 140674 | 5.50%  | 0.101% |
| 185        | 9.180 | 9.162 | 9.188 | HH | 4946  | 67405  | 2.63%  | 0.049% |
| 186        | 9.191 | 9.188 | 9.213 | HH | 4721  | 66711  | 2.61%  | 0.048% |
| 187        | 9.228 | 9.213 | 9.245 | HH | 4459  | 79076  | 3.09%  | 0.057% |
| 188        | 9.281 | 9.245 | 9.310 | HH | 5782  | 172583 | 6.74%  | 0.124% |
| 189        | 9.323 | 9.310 | 9.338 | HH | 4158  | 68230  | 2.67%  | 0.049% |
| 190        | 9.363 | 9.338 | 9.405 | HH | 17722 | 355375 | 13.88% | 0.256% |
| 191        | 9.415 | 9.405 | 9.426 | HH | 5401  | 64726  | 2.53%  | 0.047% |
| 192        | 9.446 | 9.426 | 9.455 | HH | 7962  | 124001 | 4.84%  | 0.089% |
| 193        | 9.459 | 9.455 | 9.479 | HH | 7773  | 92032  | 3.60%  | 0.066% |
| 194        | 9.506 | 9.479 | 9.527 | HH | 8315  | 189223 | 7.39%  | 0.136% |

|            |        |        |        |    |       |        |        |        |
|------------|--------|--------|--------|----|-------|--------|--------|--------|
| rteres.txt |        |        |        |    |       |        |        |        |
| 195        | 9.556  | 9.527  | 9.592  | HH | 7191  | 241607 | 9.44%  | 0.174% |
| 196        | 9.613  | 9.592  | 9.635  | HH | 5567  | 125784 | 4.91%  | 0.091% |
| 197        | 9.646  | 9.635  | 9.664  | HH | 4373  | 75191  | 2.94%  | 0.054% |
| 198        | 9.685  | 9.664  | 9.708  | HH | 7398  | 150084 | 5.86%  | 0.108% |
| 199        | 9.732  | 9.708  | 9.752  | HH | 6624  | 157655 | 6.16%  | 0.113% |
| 200        | 9.776  | 9.752  | 9.827  | HH | 34635 | 573108 | 22.39% | 0.412% |
| 201        | 9.847  | 9.827  | 9.867  | HH | 6135  | 134765 | 5.26%  | 0.097% |
| 202        | 9.881  | 9.867  | 9.920  | HH | 5964  | 166198 | 6.49%  | 0.120% |
| 203        | 9.948  | 9.920  | 9.972  | HH | 5745  | 154653 | 6.04%  | 0.111% |
| 204        | 9.985  | 9.972  | 10.000 | HH | 5017  | 82744  | 3.23%  | 0.060% |
| 205        | 10.010 | 10.000 | 10.030 | HH | 5007  | 83685  | 3.27%  | 0.060% |
| 206        | 10.049 | 10.030 | 10.077 | HH | 6413  | 149427 | 5.84%  | 0.108% |
| 207        | 10.122 | 10.077 | 10.138 | HH | 7300  | 219047 | 8.56%  | 0.158% |
| 208        | 10.164 | 10.138 | 10.190 | HH | 13577 | 288677 | 11.28% | 0.208% |
| 209        | 10.215 | 10.190 | 10.228 | HH | 8498  | 161474 | 6.31%  | 0.116% |
| 210        | 10.247 | 10.228 | 10.270 | HH | 9782  | 210904 | 8.24%  | 0.152% |
| 211        | 10.283 | 10.270 | 10.294 | HH | 8092  | 105045 | 4.10%  | 0.076% |
| 212        | 10.308 | 10.294 | 10.335 | HH | 8594  | 171512 | 6.70%  | 0.123% |
| 213        | 10.360 | 10.335 | 10.391 | HH | 7812  | 222174 | 8.68%  | 0.160% |
| 214        | 10.413 | 10.391 | 10.433 | HH | 7653  | 174925 | 6.83%  | 0.126% |
| 215        | 10.442 | 10.433 | 10.476 | HH | 6985  | 172761 | 6.75%  | 0.124% |
| 216        | 10.513 | 10.476 | 10.544 | HH | 28293 | 532052 | 20.78% | 0.383% |
| 217        | 10.587 | 10.544 | 10.613 | HH | 15510 | 466884 | 18.24% | 0.336% |
| 218        | 10.626 | 10.613 | 10.650 | HH | 7968  | 168674 | 6.59%  | 0.121% |
| 219        | 10.655 | 10.650 | 10.674 | HH | 7067  | 97327  | 3.80%  | 0.070% |
| 220        | 10.686 | 10.674 | 10.706 | HH | 6845  | 129441 | 5.06%  | 0.093% |
| 221        | 10.727 | 10.706 | 10.737 | HH | 7265  | 124581 | 4.87%  | 0.090% |
| 222        | 10.761 | 10.737 | 10.783 | HH | 55975 | 714862 | 27.92% | 0.514% |
| 223        | 10.789 | 10.783 | 10.812 | HH | 10491 | 154189 | 6.02%  | 0.111% |
| 224        | 10.835 | 10.812 | 10.852 | HH | 22734 | 344115 | 13.44% | 0.248% |
| 225        | 10.862 | 10.852 | 10.880 | HH | 13089 | 187377 | 7.32%  | 0.135% |
| 226        | 10.906 | 10.880 | 10.924 | HH | 9240  | 226249 | 8.84%  | 0.163% |
| 227        | 10.928 | 10.924 | 10.951 | HH | 8123  | 124898 | 4.88%  | 0.090% |
| 228        | 10.968 | 10.951 | 10.987 | HH | 8255  | 163184 | 6.37%  | 0.117% |
| 229        | 11.006 | 10.987 | 11.032 | HH | 9088  | 221659 | 8.66%  | 0.160% |
| 230        | 11.050 | 11.032 | 11.092 | HH | 11828 | 327062 | 12.78% | 0.235% |
| 231        | 11.115 | 11.092 | 11.132 | HH | 7921  | 180653 | 7.06%  | 0.130% |
| 232        | 11.153 | 11.132 | 11.177 | HH | 8677  | 217816 | 8.51%  | 0.157% |
| 233        | 11.215 | 11.177 | 11.242 | HH | 21478 | 463744 | 18.12% | 0.334% |
| 234        | 11.304 | 11.242 | 11.340 | HH | 12733 | 546076 | 21.33% | 0.393% |
| 235        | 11.365 | 11.340 | 11.386 | HH | 8407  | 213415 | 8.34%  | 0.154% |
| 236        | 11.412 | 11.386 | 11.434 | HH | 9119  | 225800 | 8.82%  | 0.162% |
| 237        | 11.453 | 11.434 | 11.470 | HH | 7914  | 162935 | 6.36%  | 0.117% |
| 238        | 11.529 | 11.470 | 11.545 | HH | 10064 | 379129 | 14.81% | 0.273% |
| 239        | 11.563 | 11.545 | 11.578 | HH | 14757 | 228283 | 8.92%  | 0.164% |
| 240        | 11.593 | 11.578 | 11.636 | HH | 16938 | 384222 | 15.01% | 0.276% |
| 241        | 11.678 | 11.636 | 11.695 | HH | 19351 | 439643 | 17.17% | 0.316% |
| 242        | 11.711 | 11.695 | 11.726 | HH | 14103 | 222384 | 8.69%  | 0.160% |
| 243        | 11.741 | 11.726 | 11.799 | HH | 14285 | 419657 | 16.39% | 0.302% |
| 244        | 11.829 | 11.799 | 11.845 | HH | 8714  | 224990 | 8.79%  | 0.162% |
| 245        | 11.884 | 11.845 | 11.907 | HH | 14695 | 398888 | 15.58% | 0.287% |
| 246        | 11.917 | 11.907 | 11.943 | HH | 9409  | 190343 | 7.44%  | 0.137% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 247 | 11.967 | 11.943 | 11.997 | HH | 8988       | 271945  | 10.62% | 0.196% |
| 248 | 12.002 | 11.997 | 12.011 | HH | 7948       | 64091   | 2.50%  | 0.046% |
| 249 | 12.035 | 12.011 | 12.054 | HH | 12106      | 247963  | 9.69%  | 0.178% |
| 250 | 12.064 | 12.054 | 12.074 | HH | 8227       | 97639   | 3.81%  | 0.070% |
| 251 | 12.096 | 12.074 | 12.123 | HH | 9226       | 247555  | 9.67%  | 0.178% |
| 252 | 12.181 | 12.123 | 12.198 | HH | 8707       | 372541  | 14.55% | 0.268% |
| 253 | 12.212 | 12.198 | 12.232 | HH | 8905       | 170104  | 6.64%  | 0.122% |
| 254 | 12.246 | 12.232 | 12.270 | HH | 8386       | 188379  | 7.36%  | 0.136% |
| 255 | 12.289 | 12.270 | 12.295 | HH | 9388       | 136208  | 5.32%  | 0.098% |
| 256 | 12.303 | 12.295 | 12.327 | HH | 9569       | 169981  | 6.64%  | 0.122% |
| 257 | 12.352 | 12.327 | 12.392 | HH | 10838      | 356390  | 13.92% | 0.256% |
| 258 | 12.410 | 12.392 | 12.437 | HH | 9052       | 226854  | 8.86%  | 0.163% |
| 259 | 12.462 | 12.437 | 12.481 | HH | 15257      | 301374  | 11.77% | 0.217% |
| 260 | 12.497 | 12.481 | 12.506 | HH | 10766      | 147177  | 5.75%  | 0.106% |
| 261 | 12.523 | 12.506 | 12.549 | HH | 16284      | 313649  | 12.25% | 0.226% |
| 262 | 12.576 | 12.549 | 12.617 | HH | 83323      | 1203604 | 47.02% | 0.866% |
| 263 | 12.637 | 12.617 | 12.661 | HH | 9709       | 234692  | 9.17%  | 0.169% |
| 264 | 12.671 | 12.661 | 12.690 | HH | 8143       | 134907  | 5.27%  | 0.097% |
| 265 | 12.712 | 12.690 | 12.727 | HH | 9675       | 196597  | 7.68%  | 0.141% |
| 266 | 12.741 | 12.727 | 12.751 | HH | 9742       | 130881  | 5.11%  | 0.094% |
| 267 | 12.765 | 12.751 | 12.785 | HH | 10400      | 194718  | 7.61%  | 0.140% |
| 268 | 12.793 | 12.785 | 12.807 | HH | 9491       | 122110  | 4.77%  | 0.088% |
| 269 | 12.816 | 12.807 | 12.842 | HH | 8901       | 175028  | 6.84%  | 0.126% |
| 270 | 12.874 | 12.842 | 12.902 | HH | 69813      | 964317  | 37.67% | 0.694% |
| 271 | 12.931 | 12.902 | 12.949 | HH | 13849      | 309110  | 12.07% | 0.222% |
| 272 | 12.966 | 12.949 | 13.000 | HH | 14128      | 327786  | 12.80% | 0.236% |
| 273 | 13.015 | 13.000 | 13.031 | HH | 8529       | 154583  | 6.04%  | 0.111% |
| 274 | 13.071 | 13.031 | 13.103 | HH | 10868      | 399226  | 15.60% | 0.287% |
| 275 | 13.138 | 13.103 | 13.163 | HH | 14400      | 370495  | 14.47% | 0.267% |
| 276 | 13.188 | 13.163 | 13.205 | HH | 10603      | 256945  | 10.04% | 0.185% |
| 277 | 13.212 | 13.205 | 13.252 | HH | 10351      | 249315  | 9.74%  | 0.179% |
| 278 | 13.273 | 13.252 | 13.286 | HH | 9576       | 180012  | 7.03%  | 0.130% |
| 279 | 13.301 | 13.286 | 13.315 | HH | 9652       | 155185  | 6.06%  | 0.112% |
| 280 | 13.333 | 13.315 | 13.363 | HH | 11300      | 284618  | 11.12% | 0.205% |
| 281 | 13.373 | 13.363 | 13.393 | HH | 8642       | 154834  | 6.05%  | 0.111% |
| 282 | 13.463 | 13.393 | 13.499 | HH | 18681      | 689131  | 26.92% | 0.496% |
| 283 | 13.530 | 13.499 | 13.547 | HH | 9335       | 256956  | 10.04% | 0.185% |
| 284 | 13.572 | 13.547 | 13.593 | HH | 15763      | 330971  | 12.93% | 0.238% |
| 285 | 13.610 | 13.593 | 13.631 | HH | 13563      | 255810  | 9.99%  | 0.184% |
| 286 | 13.653 | 13.631 | 13.689 | HH | 10449      | 342483  | 13.38% | 0.246% |
| 287 | 13.722 | 13.689 | 13.731 | HH | 15352      | 298981  | 11.68% | 0.215% |
| 288 | 13.735 | 13.731 | 13.760 | HH | 14745      | 214770  | 8.39%  | 0.155% |
| 289 | 13.779 | 13.760 | 13.814 | HH | 12700      | 322598  | 12.60% | 0.232% |
| 290 | 13.821 | 13.814 | 13.828 | HH | 8489       | 74162   | 2.90%  | 0.053% |
| 291 | 13.855 | 13.828 | 13.892 | HH | 8738       | 328149  | 12.82% | 0.236% |
| 292 | 13.944 | 13.892 | 13.980 | HH | 9294       | 464271  | 18.14% | 0.334% |
| 293 | 13.994 | 13.980 | 14.007 | HH | 8776       | 140464  | 5.49%  | 0.101% |
| 294 | 14.046 | 14.007 | 14.065 | HH | 9235       | 304055  | 11.88% | 0.219% |
| 295 | 14.081 | 14.065 | 14.099 | HH | 9449       | 183262  | 7.16%  | 0.132% |
| 296 | 14.107 | 14.099 | 14.119 | HH | 9161       | 108578  | 4.24%  | 0.078% |
| 297 | 14.158 | 14.119 | 14.179 | HH | 11358      | 375539  | 14.67% | 0.270% |
| 298 | 14.194 | 14.179 | 14.217 | HH | 11882      | 250487  | 9.78%  | 0.180% |
| 299 | 14.231 | 14.217 | 14.250 | HH | 10259      | 196938  | 7.69%  | 0.142% |

|     |        |        |        |    |            |         |         |        |
|-----|--------|--------|--------|----|------------|---------|---------|--------|
|     |        |        |        |    | rteres.txt |         |         |        |
| 300 | 14.284 | 14.250 | 14.327 | HH | 12291      | 497558  | 19.44%  | 0.358% |
| 301 | 14.345 | 14.327 | 14.353 | HH | 10825      | 168969  | 6.60%   | 0.122% |
| 302 | 14.377 | 14.353 | 14.397 | HH | 13826      | 321164  | 12.55%  | 0.231% |
| 303 | 14.402 | 14.397 | 14.418 | HH | 11122      | 133451  | 5.21%   | 0.096% |
| 304 | 14.440 | 14.418 | 14.463 | HH | 16500      | 344073  | 13.44%  | 0.248% |
| 305 | 14.502 | 14.463 | 14.525 | HH | 12040      | 414150  | 16.18%  | 0.298% |
| 306 | 14.540 | 14.525 | 14.547 | HH | 10498      | 132785  | 5.19%   | 0.096% |
| 307 | 14.564 | 14.547 | 14.584 | HH | 10956      | 229355  | 8.96%   | 0.165% |
| 308 | 14.621 | 14.584 | 14.679 | HH | 152181     | 2559959 | 100.00% | 1.842% |
| 309 | 14.702 | 14.679 | 14.724 | HH | 12181      | 304545  | 11.90%  | 0.219% |
| 310 | 14.750 | 14.724 | 14.770 | HH | 32877      | 572710  | 22.37%  | 0.412% |
| 311 | 14.791 | 14.770 | 14.813 | HH | 33521      | 563886  | 22.03%  | 0.406% |
| 312 | 14.823 | 14.813 | 14.850 | HH | 15263      | 305886  | 11.95%  | 0.220% |
| 313 | 14.867 | 14.850 | 14.887 | HH | 13372      | 279510  | 10.92%  | 0.201% |
| 314 | 14.911 | 14.887 | 14.939 | HH | 16432      | 426713  | 16.67%  | 0.307% |
| 315 | 14.958 | 14.939 | 14.975 | HH | 12813      | 260508  | 10.18%  | 0.187% |
| 316 | 14.992 | 14.975 | 15.032 | HH | 12443      | 402245  | 15.71%  | 0.289% |
| 317 | 15.057 | 15.032 | 15.104 | HH | 13321      | 537933  | 21.01%  | 0.387% |
| 318 | 15.112 | 15.104 | 15.165 | HH | 12255      | 436754  | 17.06%  | 0.314% |
| 319 | 15.200 | 15.165 | 15.285 | HH | 32397      | 1222022 | 47.74%  | 0.879% |
| 320 | 15.302 | 15.285 | 15.318 | HH | 13051      | 255960  | 10.00%  | 0.184% |
| 321 | 15.344 | 15.318 | 15.368 | HH | 14747      | 409882  | 16.01%  | 0.295% |
| 322 | 15.383 | 15.368 | 15.398 | HH | 14024      | 255603  | 9.98%   | 0.184% |
| 323 | 15.424 | 15.398 | 15.445 | HH | 19940      | 457426  | 17.87%  | 0.329% |
| 324 | 15.461 | 15.445 | 15.489 | HH | 15547      | 385480  | 15.06%  | 0.277% |
| 325 | 15.494 | 15.489 | 15.497 | HH | 13932      | 67424   | 2.63%   | 0.049% |
| 326 | 15.504 | 15.497 | 15.515 | HH | 14098      | 154524  | 6.04%   | 0.111% |
| 327 | 15.586 | 15.515 | 15.630 | HH | 17025      | 1031484 | 40.29%  | 0.742% |
| 328 | 15.663 | 15.630 | 15.688 | HH | 14705      | 487467  | 19.04%  | 0.351% |
| 329 | 15.712 | 15.688 | 15.719 | HH | 14064      | 262485  | 10.25%  | 0.189% |
| 330 | 15.749 | 15.719 | 15.768 | HH | 14713      | 417744  | 16.32%  | 0.301% |
| 331 | 15.780 | 15.768 | 15.804 | HH | 14575      | 309145  | 12.08%  | 0.222% |
| 332 | 15.845 | 15.804 | 15.889 | HH | 18784      | 805410  | 31.46%  | 0.580% |
| 333 | 15.908 | 15.889 | 15.943 | HH | 14898      | 473007  | 18.48%  | 0.340% |
| 334 | 15.950 | 15.943 | 15.970 | HH | 14675      | 232920  | 9.10%   | 0.168% |
| 335 | 16.030 | 15.970 | 16.055 | HH | 16991      | 804332  | 31.42%  | 0.579% |
| 336 | 16.059 | 16.055 | 16.078 | HH | 16270      | 215790  | 8.43%   | 0.155% |
| 337 | 16.095 | 16.078 | 16.105 | HH | 16252      | 256902  | 10.04%  | 0.185% |
| 338 | 16.135 | 16.105 | 16.150 | HH | 17216      | 456191  | 17.82%  | 0.328% |
| 339 | 16.170 | 16.150 | 16.196 | HH | 17283      | 460440  | 17.99%  | 0.331% |
| 340 | 16.229 | 16.196 | 16.260 | HH | 18173      | 655383  | 25.60%  | 0.472% |
| 341 | 16.307 | 16.260 | 16.324 | HH | 33811      | 882770  | 34.48%  | 0.635% |
| 342 | 16.333 | 16.324 | 16.380 | HH | 26067      | 683988  | 26.72%  | 0.492% |
| 343 | 16.439 | 16.380 | 16.464 | HH | 21253      | 951989  | 37.19%  | 0.685% |
| 344 | 16.476 | 16.464 | 16.517 | HH | 19032      | 593025  | 23.17%  | 0.427% |
| 345 | 16.534 | 16.517 | 16.540 | HH | 18428      | 253878  | 9.92%   | 0.183% |
| 346 | 16.550 | 16.540 | 16.572 | HH | 18523      | 349445  | 13.65%  | 0.251% |
| 347 | 16.627 | 16.572 | 16.655 | HH | 28774      | 1070705 | 41.83%  | 0.771% |
| 348 | 16.684 | 16.655 | 16.729 | HH | 31605      | 996176  | 38.91%  | 0.717% |
| 349 | 16.790 | 16.729 | 16.811 | HH | 26529      | 1048372 | 40.95%  | 0.754% |
| 350 | 16.842 | 16.811 | 16.882 | HH | 25445      | 962232  | 37.59%  | 0.692% |
| 351 | 16.894 | 16.882 | 16.905 | HH | 20214      | 276988  | 10.82%  | 0.199% |

|     |        |        |        |    | rteres.txt |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
| 352 | 16.924 | 16.905 | 16.935 | HH | 20882      | 369735  | 14.44% | 0.266% |
| 353 | 16.940 | 16.935 | 16.959 | HH | 20805      | 284509  | 11.11% | 0.205% |
| 354 | 16.987 | 16.959 | 17.012 | HH | 21207      | 663777  | 25.93% | 0.478% |
| 355 | 17.044 | 17.012 | 17.081 | HH | 23062      | 905530  | 35.37% | 0.652% |
| 356 | 17.104 | 17.081 | 17.159 | HH | 21814      | 991162  | 38.72% | 0.713% |
| 357 | 17.186 | 17.159 | 17.198 | HH | 22820      | 511411  | 19.98% | 0.368% |
| 358 | 17.213 | 17.198 | 17.227 | HH | 23252      | 398651  | 15.57% | 0.287% |
| 359 | 17.240 | 17.227 | 17.260 | HH | 23444      | 439568  | 17.17% | 0.316% |
| 360 | 17.274 | 17.260 | 17.306 | HH | 22224      | 601757  | 23.51% | 0.433% |
| 361 | 17.321 | 17.306 | 17.325 | HH | 21629      | 248194  | 9.70%  | 0.179% |
| 362 | 17.356 | 17.325 | 17.386 | HH | 24227      | 832972  | 32.54% | 0.599% |
| 363 | 17.390 | 17.386 | 17.400 | HH | 21361      | 180400  | 7.05%  | 0.130% |
| 364 | 17.418 | 17.400 | 17.438 | HH | 21939      | 476409  | 18.61% | 0.343% |
| 365 | 17.460 | 17.438 | 17.496 | HH | 21450      | 733436  | 28.65% | 0.528% |
| 366 | 17.537 | 17.496 | 17.562 | HH | 21513      | 828284  | 32.36% | 0.596% |
| 367 | 17.589 | 17.562 | 17.610 | HH | 22352      | 625126  | 24.42% | 0.450% |
| 368 | 17.681 | 17.610 | 17.709 | HH | 28436      | 1415814 | 55.31% | 1.019% |
| 369 | 17.730 | 17.709 | 17.750 | HH | 23450      | 548921  | 21.44% | 0.395% |
| 370 | 17.772 | 17.750 | 17.797 | HH | 24925      | 652172  | 25.48% | 0.469% |
| 371 | 17.831 | 17.797 | 17.898 | HH | 26088      | 1444235 | 56.42% | 1.039% |
| 372 | 17.910 | 17.898 | 17.945 | HH | 22257      | 616083  | 24.07% | 0.443% |
| 373 | 17.965 | 17.945 | 17.983 | HH | 23485      | 506861  | 19.80% | 0.365% |
| 374 | 18.003 | 17.983 | 18.019 | HH | 22752      | 484216  | 18.92% | 0.348% |
| 375 | 18.054 | 18.019 | 18.082 | HH | 31698      | 1010690 | 39.48% | 0.727% |
| 376 | 18.102 | 18.082 | 18.127 | HH | 27463      | 686028  | 26.80% | 0.494% |
| 377 | 18.142 | 18.127 | 18.153 | HH | 23430      | 354890  | 13.86% | 0.255% |
| 378 | 18.196 | 18.153 | 18.283 | HH | 29383      | 1954628 | 76.35% | 1.407% |
| 379 | 18.308 | 18.283 | 18.364 | HH | 31706      | 1214729 | 47.45% | 0.874% |
| 380 | 18.397 | 18.364 | 18.420 | HH | 24988      | 802901  | 31.36% | 0.578% |
| 381 | 18.439 | 18.420 | 18.468 | HH | 24990      | 681744  | 26.63% | 0.491% |
| 382 | 18.513 | 18.468 | 18.557 | HH | 28153      | 1294417 | 50.56% | 0.932% |
| 383 | 18.576 | 18.557 | 18.587 | HH | 22891      | 407359  | 15.91% | 0.293% |
| 384 | 18.620 | 18.587 | 18.645 | HH | 28564      | 878842  | 34.33% | 0.632% |
| 385 | 18.671 | 18.645 | 18.705 | HH | 25750      | 874111  | 34.15% | 0.629% |
| 386 | 18.711 | 18.705 | 18.726 | HH | 23834      | 298079  | 11.64% | 0.215% |
| 387 | 18.745 | 18.726 | 18.760 | HH | 24194      | 486164  | 18.99% | 0.350% |
| 388 | 18.790 | 18.760 | 18.807 | HH | 24429      | 679084  | 26.53% | 0.489% |
| 389 | 18.821 | 18.807 | 18.847 | HH | 24416      | 574563  | 22.44% | 0.413% |
| 390 | 18.914 | 18.847 | 18.938 | HH | 27091      | 1377167 | 53.80% | 0.991% |
| 391 | 18.954 | 18.938 | 18.972 | HH | 26026      | 515684  | 20.14% | 0.371% |
| 392 | 19.019 | 18.972 | 19.070 | HH | 26617      | 1507538 | 58.89% | 1.085% |
| 393 | 19.076 | 19.070 | 19.078 | HH | 24339      | 115962  | 4.53%  | 0.083% |
| 394 | 19.103 | 19.078 | 19.135 | HH | 25328      | 854632  | 33.38% | 0.615% |
| 395 | 19.149 | 19.135 | 19.157 | HH | 25176      | 324031  | 12.66% | 0.233% |
| 396 | 19.162 | 19.157 | 19.173 | HH | 25053      | 231147  | 9.03%  | 0.166% |
| 397 | 19.175 | 19.173 | 19.180 | HH | 24920      | 109674  | 4.28%  | 0.079% |
| 398 | 19.206 | 19.180 | 19.231 | HH | 25388      | 764782  | 29.87% | 0.550% |
| 399 | 19.235 | 19.231 | 19.247 | HH | 24662      | 231858  | 9.06%  | 0.167% |
| 400 | 19.258 | 19.247 | 19.262 | HH | 24966      | 227958  | 8.90%  | 0.164% |
| 401 | 19.300 | 19.262 | 19.321 | HH | 29932      | 962383  | 37.59% | 0.693% |
| 402 | 19.336 | 19.321 | 19.342 | HH | 27377      | 331953  | 12.97% | 0.239% |
| 403 | 19.359 | 19.342 | 19.383 | HH | 28975      | 691422  | 27.01% | 0.498% |
| 404 | 19.411 | 19.383 | 19.441 | HH | 28293      | 933020  | 36.45% | 0.671% |



|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 405 | 19.470 | 19.441 | 19.500 | HH | 30331      | 989232  | 38.64% | 0.712% |
| 406 | 19.535 | 19.500 | 19.564 | HH | 29126      | 1072964 | 41.91% | 0.772% |
| 407 | 19.584 | 19.564 | 19.615 | HH | 27664      | 846054  | 33.05% | 0.609% |
| 408 | 19.673 | 19.615 | 19.700 | HH | 29185      | 1413082 | 55.20% | 1.017% |
| 409 | 19.727 | 19.700 | 19.736 | HH | 28275      | 615963  | 24.06% | 0.443% |
| 410 | 19.754 | 19.736 | 19.767 | HH | 28280      | 524295  | 20.48% | 0.377% |
| 411 | 19.782 | 19.767 | 19.788 | HH | 27711      | 336402  | 13.14% | 0.242% |
| 412 | 19.847 | 19.788 | 19.872 | HH | 31789      | 1475044 | 57.62% | 1.061% |
| 413 | 19.883 | 19.872 | 19.888 | HH | 28827      | 277581  | 10.84% | 0.200% |
| 414 | 19.918 | 19.888 | 19.939 | HH | 30179      | 895331  | 34.97% | 0.644% |
| 415 | 19.952 | 19.939 | 19.970 | HH | 29852      | 559265  | 21.85% | 0.402% |
| 416 | 19.989 | 19.970 | 20.012 | HH | 30273      | 749070  | 29.26% | 0.539% |
| 417 | 20.043 | 20.012 | 20.078 | HH | 34387      | 1221937 | 47.73% | 0.879% |
| 418 | 20.117 | 20.078 | 20.145 | HH | 31389      | 1234880 | 48.24% | 0.889% |
| 419 | 20.153 | 20.145 | 20.157 | HH | 30292      | 206985  | 8.09%  | 0.149% |
| 420 | 20.161 | 20.157 | 20.165 | HH | 30501      | 155814  | 6.09%  | 0.112% |
| 421 | 20.189 | 20.165 | 20.193 | HH | 30489      | 499038  | 19.49% | 0.359% |
| 422 | 20.202 | 20.193 | 20.230 | HH | 31115      | 687738  | 26.87% | 0.495% |
| 423 | 20.257 | 20.230 | 20.262 | HH | 31000      | 576822  | 22.53% | 0.415% |
| 424 | 20.265 | 20.262 | 20.302 | HH | 30993      | 741533  | 28.97% | 0.534% |
| 425 | 20.308 | 20.302 | 20.323 | HH | 30460      | 382324  | 14.93% | 0.275% |
| 426 | 20.332 | 20.323 | 20.344 | HH | 30532      | 370705  | 14.48% | 0.267% |
| 427 | 20.352 | 20.344 | 20.369 | HH | 30440      | 453356  | 17.71% | 0.326% |
| 428 | 20.374 | 20.369 | 20.377 | HH | 30296      | 152026  | 5.94%  | 0.109% |
| 429 | 20.400 | 20.377 | 20.475 | HH | 32198      | 1819363 | 71.07% | 1.309% |
| 430 | 20.506 | 20.475 | 20.521 | HH | 30719      | 828775  | 32.37% | 0.596% |
| 431 | 20.527 | 20.521 | 20.534 | HH | 30682      | 237399  | 9.27%  | 0.171% |
| 432 | 20.538 | 20.534 | 20.574 | HH | 30504      | 726759  | 28.39% | 0.523% |
| 433 | 20.579 | 20.574 | 20.585 | HH | 29846      | 187954  | 7.34%  | 0.135% |
| 434 | 20.592 | 20.585 | 20.605 | HH | 29984      | 363018  | 14.18% | 0.261% |
| 435 | 20.617 | 20.605 | 20.669 | HH | 30183      | 1146121 | 44.77% | 0.825% |
| 436 | 20.675 | 20.669 | 20.700 | HH | 29400      | 543277  | 21.22% | 0.391% |
| 437 | 20.705 | 20.700 | 20.731 | HH | 28833      | 529161  | 20.67% | 0.381% |
| 438 | 20.768 | 20.731 | 20.806 | HH | 32650      | 1353183 | 52.86% | 0.974% |
| 439 | 20.810 | 20.806 | 20.815 | HH | 28225      | 150715  | 5.89%  | 0.108% |
| 440 | 20.831 | 20.815 | 20.892 | HH | 28345      | 1287513 | 50.29% | 0.927% |
| 441 | 20.932 | 20.892 | 20.938 | HH | 28201      | 773763  | 30.23% | 0.557% |
| 442 | 20.943 | 20.938 | 20.962 | HH | 28192      | 403343  | 15.76% | 0.290% |
| 443 | 20.969 | 20.962 | 20.977 | HH | 27752      | 243856  | 9.53%  | 0.175% |
| 444 | 20.983 | 20.977 | 21.031 | HH | 27556      | 881400  | 34.43% | 0.634% |
| 445 | 21.036 | 21.031 | 21.041 | HH | 27199      | 164307  | 6.42%  | 0.118% |
| 446 | 21.045 | 21.041 | 21.074 | HH | 27145      | 524131  | 20.47% | 0.377% |
| 447 | 21.080 | 21.074 | 21.100 | HH | 26562      | 423094  | 16.53% | 0.304% |
| 448 | 21.110 | 21.100 | 21.155 | HH | 26447      | 859109  | 33.56% | 0.618% |
| 449 | 21.190 | 21.155 | 21.234 | HH | 27956      | 1284593 | 50.18% | 0.924% |
| 450 | 21.239 | 21.234 | 21.335 | HH | 26737      | 1557319 | 60.83% | 1.121% |
| 451 | 21.362 | 21.335 | 21.394 | HH | 24863      | 863306  | 33.72% | 0.621% |
| 452 | 21.412 | 21.394 | 21.445 | HH | 24729      | 745949  | 29.14% | 0.537% |
| 453 | 21.492 | 21.445 | 21.547 | HH | 25387      | 1510752 | 59.01% | 1.087% |
| 454 | 21.569 | 21.547 | 21.608 | HH | 24881      | 900606  | 35.18% | 0.648% |
| 455 | 21.649 | 21.608 | 21.764 | HH | 27011      | 2247370 | 87.79% | 1.617% |
| 456 | 21.786 | 21.764 | 21.817 | HH | 22697      | 721337  | 28.18% | 0.519% |

|     |        |        |        |    |                         |           |        |        |  |
|-----|--------|--------|--------|----|-------------------------|-----------|--------|--------|--|
|     |        |        |        |    | rteres.txt              |           |        |        |  |
| 457 | 21.830 | 21.817 | 21.901 | HH | 22573                   | 1117690   | 43.66% | 0.804% |  |
| 458 | 21.913 | 21.901 | 21.937 | HH | 22061                   | 467897    | 18.28% | 0.337% |  |
| 459 | 21.970 | 21.937 | 21.980 | HH | 21873                   | 571178    | 22.31% | 0.411% |  |
|     |        |        |        |    | Sum of corrected areas: | 138959576 |        |        |  |

FF031518.M Thu Mar 22 16:09:05 2018