

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG071318\  
 Data File : FG001669.D  
 Signal(s) : FID1A.ch  
 Acq On : 13 Jul 2018 20:29  
 Sample : J3948-01 50X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG070218.M  
 Title :

Signal : FID1A.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         | 2.157       | 2.135        | 2.167      | BH       | -4             | -901         | -0.00%         | -0.000%       |
| 2         | 2.180       | 2.167        | 2.193      | PH       | 253            | 1052         | 0.00%          | 0.000%        |
| 3         | 2.209       | 2.193        | 2.265      | PH       | 521            | 3660         | 0.01%          | 0.001%        |
| 4         | 2.276       | 2.265        | 2.302      | PH       | -109           | -3372        | -0.01%         | -0.001%       |
| 5         | 2.349       | 2.302        | 2.368      | PH       | 207            | 1859         | 0.01%          | 0.000%        |
| 6         | 2.378       | 2.368        | 2.389      | PH       | 103            | 500          | 0.00%          | 0.000%        |
| 7         | 2.420       | 2.389        | 2.432      | PH       | 582            | 5435         | 0.02%          | 0.001%        |
| 8         | 2.442       | 2.432        | 2.485      | HH       | 430            | 2326         | 0.01%          | 0.000%        |
| 9         | 2.543       | 2.485        | 2.612      | PH       | 1303           | 10750        | 0.04%          | 0.002%        |
| 10        | 2.631       | 2.612        | 2.695      | PH       | 3969           | 58255        | 0.20%          | 0.012%        |
| 11        | 2.723       | 2.695        | 2.766      | HH       | 1391           | 30397        | 0.10%          | 0.006%        |
| 12        | 2.784       | 2.766        | 2.795      | HH       | 660            | 8275         | 0.03%          | 0.002%        |
| 13        | 2.810       | 2.795        | 2.855      | HH       | 1542           | 21430        | 0.07%          | 0.004%        |
| 14        | 2.895       | 2.855        | 3.044      | HH       | 147536         | 1653801      | 5.58%          | 0.327%        |
| 15        | 3.069       | 3.044        | 3.106      | HH       | 1594           | 48884        | 0.17%          | 0.010%        |
| 16        | 3.118       | 3.106        | 3.148      | HH       | 1202           | 20341        | 0.07%          | 0.004%        |
| 17        | 3.172       | 3.148        | 3.303      | HH       | 2519           | 64516        | 0.22%          | 0.013%        |
| 18        | 3.336       | 3.303        | 3.365      | HH       | 337            | 8723         | 0.03%          | 0.002%        |
| 19        | 3.396       | 3.365        | 3.414      | HH       | 440            | 8294         | 0.03%          | 0.002%        |
| 20        | 3.431       | 3.414        | 3.480      | HH       | 783            | 13976        | 0.05%          | 0.003%        |
| 21        | 3.513       | 3.480        | 3.553      | HH       | 925            | 25366        | 0.09%          | 0.005%        |
| 22        | 3.575       | 3.553        | 3.665      | HH       | 1829           | 44324        | 0.15%          | 0.009%        |
| 23        | 3.705       | 3.665        | 3.734      | HH       | 1144           | 27849        | 0.09%          | 0.006%        |
| 24        | 3.750       | 3.734        | 3.844      | HH       | 800            | 17744        | 0.06%          | 0.004%        |
| 25        | 3.869       | 3.844        | 3.938      | PH       | 2237           | 39274        | 0.13%          | 0.008%        |
| 26        | 3.948       | 3.938        | 3.968      | HH       | 194            | 2876         | 0.01%          | 0.001%        |
| 27        | 4.000       | 3.968        | 4.022      | HH       | 45082          | 561625       | 1.90%          | 0.111%        |
| 28        | 4.036       | 4.022        | 4.123      | HH       | 22622          | 340379       | 1.15%          | 0.067%        |
| 29        | 4.136       | 4.123        | 4.207      | HH       | 1035           | 36280        | 0.12%          | 0.007%        |
| 30        | 4.227       | 4.207        | 4.242      | HH       | 597            | 10139        | 0.03%          | 0.002%        |
| 31        | 4.258       | 4.242        | 4.283      | HH       | 602            | 10686        | 0.04%          | 0.002%        |
| 32        | 4.332       | 4.283        | 4.344      | HH       | 644            | 14443        | 0.05%          | 0.003%        |
| 33        | 4.359       | 4.344        | 4.367      | HH       | 811            | 9292         | 0.03%          | 0.002%        |
| 34        | 4.384       | 4.367        | 4.437      | HH       | 1115           | 27859        | 0.09%          | 0.006%        |
| 35        | 4.466       | 4.437        | 4.582      | HH       | 36845          | 448893       | 1.52%          | 0.089%        |
| 36        | 4.600       | 4.582        | 4.691      | HH       | 4607           | 98631        | 0.33%          | 0.019%        |

|    |       |       |       |    | rteres.txt |         |       |        |
|----|-------|-------|-------|----|------------|---------|-------|--------|
| 37 | 4.712 | 4.691 | 4.759 | HH | 723        | 16967   | 0.06% | 0.003% |
| 38 | 4.764 | 4.759 | 4.802 | HH | 215        | 3260    | 0.01% | 0.001% |
| 39 | 4.845 | 4.802 | 4.869 | PH | 175        | 4243    | 0.01% | 0.001% |
| 40 | 4.945 | 4.869 | 4.982 | HH | 1377       | 29157   | 0.10% | 0.006% |
| 41 | 5.003 | 4.982 | 5.038 | HH | 2054       | 40522   | 0.14% | 0.008% |
| 42 | 5.059 | 5.038 | 5.095 | HH | 10900      | 163371  | 0.55% | 0.032% |
| 43 | 5.114 | 5.095 | 5.162 | HH | 7428       | 90217   | 0.30% | 0.018% |
| 44 | 5.176 | 5.162 | 5.190 | HH | 412        | 4673    | 0.02% | 0.001% |
| 45 | 5.234 | 5.190 | 5.282 | HH | 67874      | 789596  | 2.67% | 0.156% |
| 46 | 5.297 | 5.282 | 5.313 | HH | 3007       | 40376   | 0.14% | 0.008% |
| 47 | 5.341 | 5.313 | 5.454 | HH | 10093      | 167815  | 0.57% | 0.033% |
| 48 | 5.469 | 5.454 | 5.491 | HH | 325        | 4999    | 0.02% | 0.001% |
| 49 | 5.547 | 5.491 | 5.568 | HH | 6706       | 108287  | 0.37% | 0.021% |
| 50 | 5.610 | 5.568 | 5.675 | HH | 7489       | 200991  | 0.68% | 0.040% |
| 51 | 5.690 | 5.675 | 5.735 | HH | 1450       | 30339   | 0.10% | 0.006% |
| 52 | 5.782 | 5.735 | 5.795 | HH | 1915       | 44035   | 0.15% | 0.009% |
| 53 | 5.834 | 5.795 | 5.867 | HH | 37868      | 430254  | 1.45% | 0.085% |
| 54 | 5.883 | 5.867 | 5.915 | HH | 2973       | 54160   | 0.18% | 0.011% |
| 55 | 5.932 | 5.915 | 5.998 | HH | 2042       | 49205   | 0.17% | 0.010% |
| 56 | 6.021 | 5.998 | 6.038 | HH | 862        | 14798   | 0.05% | 0.003% |
| 57 | 6.062 | 6.038 | 6.081 | HH | 801        | 16656   | 0.06% | 0.003% |
| 58 | 6.130 | 6.081 | 6.152 | HH | 1373       | 43512   | 0.15% | 0.009% |
| 59 | 6.198 | 6.152 | 6.208 | HH | 17600      | 210890  | 0.71% | 0.042% |
| 60 | 6.222 | 6.208 | 6.255 | HH | 21928      | 311355  | 1.05% | 0.062% |
| 61 | 6.275 | 6.255 | 6.292 | HH | 12625      | 158803  | 0.54% | 0.031% |
| 62 | 6.305 | 6.292 | 6.391 | HH | 7810       | 169856  | 0.57% | 0.034% |
| 63 | 6.422 | 6.391 | 6.438 | HH | 1272       | 30568   | 0.10% | 0.006% |
| 64 | 6.454 | 6.438 | 6.479 | HH | 1352       | 27300   | 0.09% | 0.005% |
| 65 | 6.515 | 6.479 | 6.557 | HH | 2491       | 84283   | 0.28% | 0.017% |
| 66 | 6.594 | 6.557 | 6.650 | HH | 5608       | 167806  | 0.57% | 0.033% |
| 67 | 6.669 | 6.650 | 6.683 | HH | 3233       | 49614   | 0.17% | 0.010% |
| 68 | 6.711 | 6.683 | 6.738 | HH | 3488       | 96099   | 0.32% | 0.019% |
| 69 | 6.790 | 6.738 | 6.799 | HH | 4615       | 116790  | 0.39% | 0.023% |
| 70 | 6.823 | 6.799 | 6.859 | HH | 13761      | 267914  | 0.90% | 0.053% |
| 71 | 6.888 | 6.859 | 6.941 | HH | 15152      | 330720  | 1.12% | 0.065% |
| 72 | 6.974 | 6.941 | 6.997 | HH | 2747       | 78216   | 0.26% | 0.015% |
| 73 | 7.022 | 6.997 | 7.059 | HH | 8947       | 143162  | 0.48% | 0.028% |
| 74 | 7.071 | 7.059 | 7.088 | HH | 2066       | 32889   | 0.11% | 0.006% |
| 75 | 7.118 | 7.088 | 7.137 | HH | 4749       | 81626   | 0.28% | 0.016% |
| 76 | 7.155 | 7.137 | 7.168 | HH | 2627       | 44916   | 0.15% | 0.009% |
| 77 | 7.195 | 7.168 | 7.228 | HH | 8691       | 157582  | 0.53% | 0.031% |
| 78 | 7.253 | 7.228 | 7.278 | HH | 4079       | 78978   | 0.27% | 0.016% |
| 79 | 7.320 | 7.278 | 7.345 | HH | 4787       | 128951  | 0.44% | 0.025% |
| 80 | 7.374 | 7.345 | 7.388 | HH | 5579       | 109238  | 0.37% | 0.022% |
| 81 | 7.401 | 7.388 | 7.438 | HH | 6031       | 124464  | 0.42% | 0.025% |
| 82 | 7.455 | 7.438 | 7.493 | HH | 4116       | 106562  | 0.36% | 0.021% |
| 83 | 7.526 | 7.493 | 7.544 | HH | 2957       | 74601   | 0.25% | 0.015% |
| 84 | 7.576 | 7.544 | 7.642 | HH | 67364      | 1067451 | 3.60% | 0.211% |
| 85 | 7.657 | 7.642 | 7.684 | HH | 6472       | 144376  | 0.49% | 0.029% |
| 86 | 7.703 | 7.684 | 7.738 | HH | 6772       | 176743  | 0.60% | 0.035% |
| 87 | 7.769 | 7.738 | 7.802 | HH | 10975      | 285793  | 0.96% | 0.056% |
| 88 | 7.886 | 7.802 | 7.952 | HH | 47113      | 1005585 | 3.40% | 0.199% |
| 89 | 7.981 | 7.952 | 7.995 | HH | 15524      | 232467  | 0.78% | 0.046% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 90         | 8.036  | 7.995  | 8.098  | HH | 142936 | 1995251 | 6.74%  | 0.394% |
| 91         | 8.163  | 8.098  | 8.235  | HH | 278320 | 3485521 | 11.77% | 0.689% |
| 92         | 8.253  | 8.235  | 8.284  | HH | 6944   | 174986  | 0.59%  | 0.035% |
| 93         | 8.305  | 8.284  | 8.362  | HH | 5516   | 218898  | 0.74%  | 0.043% |
| 94         | 8.400  | 8.362  | 8.424  | HH | 13227  | 280305  | 0.95%  | 0.055% |
| 95         | 8.459  | 8.424  | 8.487  | HH | 17303  | 406009  | 1.37%  | 0.080% |
| 96         | 8.508  | 8.487  | 8.533  | HH | 14686  | 275694  | 0.93%  | 0.054% |
| 97         | 8.547  | 8.533  | 8.566  | HH | 8198   | 151268  | 0.51%  | 0.030% |
| 98         | 8.575  | 8.566  | 8.584  | HH | 7432   | 80114   | 0.27%  | 0.016% |
| 99         | 8.601  | 8.584  | 8.626  | HH | 10840  | 205460  | 0.69%  | 0.041% |
| 100        | 8.648  | 8.626  | 8.682  | HH | 7651   | 233327  | 0.79%  | 0.046% |
| 101        | 8.702  | 8.682  | 8.715  | HH | 8993   | 157233  | 0.53%  | 0.031% |
| 102        | 8.733  | 8.715  | 8.757  | HH | 13862  | 242523  | 0.82%  | 0.048% |
| 103        | 8.776  | 8.757  | 8.797  | HH | 11797  | 214262  | 0.72%  | 0.042% |
| 104        | 8.825  | 8.797  | 8.849  | HH | 9444   | 256221  | 0.87%  | 0.051% |
| 105        | 8.884  | 8.849  | 8.898  | HH | 14229  | 315345  | 1.06%  | 0.062% |
| 106        | 8.910  | 8.898  | 8.942  | HH | 14365  | 283502  | 0.96%  | 0.056% |
| 107        | 8.967  | 8.942  | 8.995  | HH | 26030  | 425761  | 1.44%  | 0.084% |
| 108        | 9.021  | 8.995  | 9.040  | HH | 15233  | 283125  | 0.96%  | 0.056% |
| 109        | 9.057  | 9.040  | 9.075  | HH | 19426  | 264214  | 0.89%  | 0.052% |
| 110        | 9.106  | 9.075  | 9.129  | HH | 26749  | 489672  | 1.65%  | 0.097% |
| 111        | 9.160  | 9.129  | 9.179  | HH | 12321  | 293692  | 0.99%  | 0.058% |
| 112        | 9.200  | 9.179  | 9.219  | HH | 17583  | 280876  | 0.95%  | 0.056% |
| 113        | 9.243  | 9.219  | 9.301  | HH | 32385  | 759700  | 2.57%  | 0.150% |
| 114        | 9.321  | 9.301  | 9.334  | HH | 13367  | 208934  | 0.71%  | 0.041% |
| 115        | 9.350  | 9.334  | 9.363  | HH | 12954  | 203920  | 0.69%  | 0.040% |
| 116        | 9.384  | 9.363  | 9.437  | HH | 33407  | 816429  | 2.76%  | 0.161% |
| 117        | 9.460  | 9.437  | 9.479  | HH | 12787  | 287000  | 0.97%  | 0.057% |
| 118        | 9.501  | 9.479  | 9.534  | HH | 34953  | 557699  | 1.88%  | 0.110% |
| 119        | 9.561  | 9.534  | 9.593  | HH | 15675  | 410870  | 1.39%  | 0.081% |
| 120        | 9.622  | 9.593  | 9.641  | HH | 12535  | 287643  | 0.97%  | 0.057% |
| 121        | 9.687  | 9.641  | 9.731  | HH | 43538  | 1080124 | 3.65%  | 0.213% |
| 122        | 9.743  | 9.731  | 9.786  | HH | 11560  | 318140  | 1.07%  | 0.063% |
| 123        | 9.825  | 9.786  | 9.848  | HH | 10153  | 321899  | 1.09%  | 0.064% |
| 124        | 9.865  | 9.848  | 9.885  | HH | 9842   | 192466  | 0.65%  | 0.038% |
| 125        | 9.953  | 9.885  | 9.976  | HH | 50631  | 1053208 | 3.56%  | 0.208% |
| 126        | 9.988  | 9.976  | 10.021 | HH | 14368  | 310938  | 1.05%  | 0.061% |
| 127        | 10.051 | 10.021 | 10.072 | HH | 15129  | 357818  | 1.21%  | 0.071% |
| 128        | 10.100 | 10.072 | 10.110 | HH | 20935  | 356838  | 1.20%  | 0.071% |
| 129        | 10.121 | 10.110 | 10.144 | HH | 22235  | 360926  | 1.22%  | 0.071% |
| 130        | 10.163 | 10.144 | 10.183 | HH | 20973  | 357965  | 1.21%  | 0.071% |
| 131        | 10.193 | 10.183 | 10.215 | HH | 12871  | 220835  | 0.75%  | 0.044% |
| 132        | 10.244 | 10.215 | 10.269 | HH | 19246  | 458985  | 1.55%  | 0.091% |
| 133        | 10.296 | 10.269 | 10.345 | HH | 52742  | 1099844 | 3.71%  | 0.217% |
| 134        | 10.363 | 10.345 | 10.381 | HH | 15666  | 299815  | 1.01%  | 0.059% |
| 135        | 10.404 | 10.381 | 10.422 | HH | 27683  | 504425  | 1.70%  | 0.100% |
| 136        | 10.444 | 10.422 | 10.497 | HH | 46030  | 1107870 | 3.74%  | 0.219% |
| 137        | 10.514 | 10.497 | 10.530 | HH | 14275  | 258647  | 0.87%  | 0.051% |
| 138        | 10.545 | 10.530 | 10.562 | HH | 14015  | 231988  | 0.78%  | 0.046% |
| 139        | 10.647 | 10.562 | 10.689 | HH | 812228 | 9651952 | 32.59% | 1.908% |
| 140        | 10.718 | 10.689 | 10.762 | HH | 290822 | 3590570 | 12.12% | 0.710% |
| 141        | 10.794 | 10.762 | 10.843 | HH | 20278  | 810709  | 2.74%  | 0.160% |

| rteres.txt |        |        |        |    |         |          |         |        |
|------------|--------|--------|--------|----|---------|----------|---------|--------|
| 142        | 10.854 | 10.843 | 10.875 | HH | 13561   | 243854   | 0.82%   | 0.048% |
| 143        | 10.897 | 10.875 | 10.917 | HH | 15021   | 336056   | 1.13%   | 0.066% |
| 144        | 10.940 | 10.917 | 10.978 | HH | 20582   | 623136   | 2.10%   | 0.123% |
| 145        | 11.017 | 10.978 | 11.037 | HH | 17694   | 556377   | 1.88%   | 0.110% |
|            |        |        |        |    |         |          |         |        |
| 146        | 11.050 | 11.037 | 11.061 | HH | 16408   | 225295   | 0.76%   | 0.045% |
| 147        | 11.070 | 11.061 | 11.081 | HH | 16328   | 181168   | 0.61%   | 0.036% |
| 148        | 11.103 | 11.081 | 11.122 | HH | 43909   | 723922   | 2.44%   | 0.143% |
| 149        | 11.130 | 11.122 | 11.145 | HH | 26450   | 345130   | 1.17%   | 0.068% |
| 150        | 11.180 | 11.145 | 11.219 | HH | 112280  | 2086564  | 7.04%   | 0.412% |
|            |        |        |        |    |         |          |         |        |
| 151        | 11.245 | 11.219 | 11.268 | HH | 24245   | 558153   | 1.88%   | 0.110% |
| 152        | 11.294 | 11.268 | 11.316 | HH | 33087   | 632381   | 2.14%   | 0.125% |
| 153        | 11.338 | 11.316 | 11.362 | HH | 26603   | 532932   | 1.80%   | 0.105% |
| 154        | 11.409 | 11.362 | 11.420 | HH | 25810   | 630331   | 2.13%   | 0.125% |
| 155        | 11.446 | 11.420 | 11.461 | HH | 150314  | 1900092  | 6.42%   | 0.376% |
|            |        |        |        |    |         |          |         |        |
| 156        | 11.477 | 11.461 | 11.518 | HH | 178233  | 2279269  | 7.70%   | 0.450% |
| 157        | 11.559 | 11.518 | 11.576 | HH | 163230  | 2367098  | 7.99%   | 0.468% |
| 158        | 11.592 | 11.576 | 11.608 | HH | 114451  | 1388592  | 4.69%   | 0.274% |
| 159        | 11.624 | 11.608 | 11.670 | HH | 122584  | 1764243  | 5.96%   | 0.349% |
| 160        | 11.699 | 11.670 | 11.724 | HH | 25595   | 585859   | 1.98%   | 0.116% |
|            |        |        |        |    |         |          |         |        |
| 161        | 11.743 | 11.724 | 11.756 | HH | 19849   | 345612   | 1.17%   | 0.068% |
| 162        | 11.775 | 11.756 | 11.790 | HH | 26597   | 463961   | 1.57%   | 0.092% |
| 163        | 11.815 | 11.790 | 11.869 | HH | 137092  | 2520900  | 8.51%   | 0.498% |
| 164        | 11.918 | 11.869 | 11.958 | HH | 211858  | 3189821  | 10.77%  | 0.630% |
| 165        | 11.980 | 11.958 | 12.009 | HH | 31874   | 761584   | 2.57%   | 0.151% |
|            |        |        |        |    |         |          |         |        |
| 166        | 12.033 | 12.009 | 12.042 | HH | 21144   | 389458   | 1.31%   | 0.077% |
| 167        | 12.059 | 12.042 | 12.081 | HH | 23579   | 478903   | 1.62%   | 0.095% |
| 168        | 12.118 | 12.081 | 12.145 | HH | 37908   | 972157   | 3.28%   | 0.192% |
| 169        | 12.168 | 12.145 | 12.178 | HH | 29599   | 512082   | 1.73%   | 0.101% |
| 170        | 12.190 | 12.178 | 12.215 | HH | 32746   | 577958   | 1.95%   | 0.114% |
|            |        |        |        |    |         |          |         |        |
| 171        | 12.236 | 12.215 | 12.277 | HH | 42065   | 1090860  | 3.68%   | 0.216% |
| 172        | 12.307 | 12.277 | 12.329 | HH | 169904  | 2388641  | 8.06%   | 0.472% |
| 173        | 12.348 | 12.329 | 12.367 | HH | 94735   | 1433561  | 4.84%   | 0.283% |
| 174        | 12.383 | 12.367 | 12.404 | HH | 67888   | 1177325  | 3.98%   | 0.233% |
| 175        | 12.418 | 12.404 | 12.434 | HH | 46960   | 729670   | 2.46%   | 0.144% |
|            |        |        |        |    |         |          |         |        |
| 176        | 12.479 | 12.434 | 12.512 | HH | 1394610 | 20677430 | 69.81%  | 4.087% |
| 177        | 12.523 | 12.512 | 12.544 | HH | 18646   | 336439   | 1.14%   | 0.066% |
| 178        | 12.562 | 12.544 | 12.573 | HH | 21223   | 340128   | 1.15%   | 0.067% |
| 179        | 12.602 | 12.573 | 12.623 | HH | 225980  | 3069991  | 10.37%  | 0.607% |
| 180        | 12.645 | 12.623 | 12.670 | HH | 70925   | 1464755  | 4.95%   | 0.289% |
|            |        |        |        |    |         |          |         |        |
| 181        | 12.696 | 12.670 | 12.730 | HH | 80881   | 1912818  | 6.46%   | 0.378% |
| 182        | 12.785 | 12.730 | 12.809 | HH | 1794493 | 29617888 | 100.00% | 5.853% |
| 183        | 12.818 | 12.809 | 12.834 | HH | 44960   | 577934   | 1.95%   | 0.114% |
| 184        | 12.850 | 12.834 | 12.880 | HH | 46612   | 875679   | 2.96%   | 0.173% |
| 185        | 12.907 | 12.880 | 12.919 | HH | 26954   | 550327   | 1.86%   | 0.109% |
|            |        |        |        |    |         |          |         |        |
| 186        | 12.934 | 12.919 | 12.956 | HH | 29339   | 531593   | 1.79%   | 0.105% |
| 187        | 12.966 | 12.956 | 12.986 | HH | 20113   | 332618   | 1.12%   | 0.066% |
| 188        | 13.029 | 12.986 | 13.044 | HH | 38167   | 915564   | 3.09%   | 0.181% |
| 189        | 13.055 | 13.044 | 13.081 | HH | 34887   | 702920   | 2.37%   | 0.139% |
| 190        | 13.093 | 13.081 | 13.134 | HH | 28037   | 685955   | 2.32%   | 0.136% |
|            |        |        |        |    |         |          |         |        |
| 191        | 13.183 | 13.134 | 13.195 | HH | 39132   | 1069502  | 3.61%   | 0.211% |
| 192        | 13.221 | 13.195 | 13.298 | HH | 131544  | 3114558  | 10.52%  | 0.616% |
| 193        | 13.351 | 13.298 | 13.388 | HH | 197566  | 4571277  | 15.43%  | 0.903% |
| 194        | 13.411 | 13.388 | 13.435 | HH | 40212   | 983662   | 3.32%   | 0.194% |

|     |        |        |        |    | rteres.txt |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
| 195 | 13.459 | 13.435 | 13.475 | HH | 87358      | 1348663  | 4.55%  | 0.267% |
| 196 | 13.498 | 13.475 | 13.559 | HH | 215653     | 3569943  | 12.05% | 0.706% |
| 197 | 13.581 | 13.559 | 13.592 | HH | 41483      | 677169   | 2.29%  | 0.134% |
| 198 | 13.626 | 13.592 | 13.646 | HH | 169518     | 2679837  | 9.05%  | 0.530% |
| 199 | 13.667 | 13.646 | 13.711 | HH | 173343     | 2633662  | 8.89%  | 0.520% |
| 200 | 13.759 | 13.711 | 13.778 | HH | 32542      | 1104975  | 3.73%  | 0.218% |
| 201 | 13.795 | 13.778 | 13.819 | HH | 29482      | 634480   | 2.14%  | 0.125% |
| 202 | 13.830 | 13.819 | 13.888 | HH | 24290      | 890013   | 3.00%  | 0.176% |
| 203 | 13.905 | 13.888 | 13.915 | HH | 19663      | 299772   | 1.01%  | 0.059% |
| 204 | 13.938 | 13.915 | 13.960 | HH | 26683      | 640325   | 2.16%  | 0.127% |
| 205 | 13.984 | 13.960 | 14.003 | HH | 34145      | 709000   | 2.39%  | 0.140% |
| 206 | 14.051 | 14.003 | 14.068 | HH | 44375      | 1316244  | 4.44%  | 0.260% |
| 207 | 14.092 | 14.068 | 14.129 | HH | 125657     | 2325802  | 7.85%  | 0.460% |
| 208 | 14.185 | 14.129 | 14.218 | HH | 39257      | 1631088  | 5.51%  | 0.322% |
| 209 | 14.264 | 14.218 | 14.300 | HH | 168505     | 3393920  | 11.46% | 0.671% |
| 210 | 14.330 | 14.300 | 14.366 | HH | 415718     | 6575776  | 22.20% | 1.300% |
| 211 | 14.398 | 14.366 | 14.428 | HH | 139139     | 2500963  | 8.44%  | 0.494% |
| 212 | 14.456 | 14.428 | 14.468 | HH | 36529      | 722816   | 2.44%  | 0.143% |
| 213 | 14.512 | 14.468 | 14.564 | HH | 69201      | 2215238  | 7.48%  | 0.438% |
| 214 | 14.595 | 14.564 | 14.615 | HH | 152551     | 2274431  | 7.68%  | 0.449% |
| 215 | 14.653 | 14.615 | 14.671 | HH | 750757     | 11726584 | 39.59% | 2.318% |
| 216 | 14.698 | 14.671 | 14.722 | HH | 918837     | 11847143 | 40.00% | 2.341% |
| 217 | 14.736 | 14.722 | 14.772 | HH | 36273      | 1011521  | 3.42%  | 0.200% |
| 218 | 14.806 | 14.772 | 14.854 | HH | 257717     | 5006236  | 16.90% | 0.989% |
| 219 | 14.869 | 14.854 | 14.913 | HH | 54957      | 1279405  | 4.32%  | 0.253% |
| 220 | 14.953 | 14.913 | 14.975 | HH | 62884      | 1477137  | 4.99%  | 0.292% |
| 221 | 14.997 | 14.975 | 15.052 | HH | 72925      | 1950246  | 6.58%  | 0.385% |
| 222 | 15.092 | 15.052 | 15.117 | HH | 57551      | 1600399  | 5.40%  | 0.316% |
| 223 | 15.128 | 15.117 | 15.162 | HH | 37938      | 843922   | 2.85%  | 0.167% |
| 224 | 15.186 | 15.162 | 15.210 | HH | 36074      | 893200   | 3.02%  | 0.177% |
| 225 | 15.231 | 15.210 | 15.250 | HH | 40973      | 809544   | 2.73%  | 0.160% |
| 226 | 15.272 | 15.250 | 15.288 | HH | 58387      | 1013016  | 3.42%  | 0.200% |
| 227 | 15.314 | 15.288 | 15.336 | HH | 191267     | 3061974  | 10.34% | 0.605% |
| 228 | 15.352 | 15.336 | 15.375 | HH | 80258      | 1362565  | 4.60%  | 0.269% |
| 229 | 15.399 | 15.375 | 15.427 | HH | 56373      | 1441928  | 4.87%  | 0.285% |
| 230 | 15.473 | 15.427 | 15.509 | HH | 171194     | 4426730  | 14.95% | 0.875% |
| 231 | 15.554 | 15.509 | 15.577 | HH | 94075      | 2022556  | 6.83%  | 0.400% |
| 232 | 15.592 | 15.577 | 15.612 | HH | 40376      | 723145   | 2.44%  | 0.143% |
| 233 | 15.635 | 15.612 | 15.665 | HH | 94089      | 1590104  | 5.37%  | 0.314% |
| 234 | 15.699 | 15.665 | 15.725 | HH | 52488      | 1425683  | 4.81%  | 0.282% |
| 235 | 15.759 | 15.725 | 15.792 | HH | 66049      | 1661615  | 5.61%  | 0.328% |
| 236 | 15.831 | 15.792 | 15.873 | HH | 69155      | 2086947  | 7.05%  | 0.412% |
| 237 | 15.946 | 15.873 | 15.974 | HH | 62442      | 2235571  | 7.55%  | 0.442% |
| 238 | 16.017 | 15.974 | 16.038 | HH | 42042      | 1318398  | 4.45%  | 0.261% |
| 239 | 16.064 | 16.038 | 16.091 | HH | 54987      | 1314615  | 4.44%  | 0.260% |
| 240 | 16.118 | 16.091 | 16.136 | HH | 55414      | 1223115  | 4.13%  | 0.242% |
| 241 | 16.161 | 16.136 | 16.177 | HH | 97955      | 1700349  | 5.74%  | 0.336% |
| 242 | 16.221 | 16.177 | 16.282 | HH | 756783     | 18775346 | 63.39% | 3.711% |
| 243 | 16.337 | 16.282 | 16.381 | HH | 169903     | 3719520  | 12.56% | 0.735% |
| 244 | 16.396 | 16.381 | 16.436 | HH | 38365      | 1151301  | 3.89%  | 0.228% |
| 245 | 16.460 | 16.436 | 16.484 | HH | 41525      | 1076747  | 3.64%  | 0.213% |
| 246 | 16.541 | 16.484 | 16.566 | HH | 641513     | 12554313 | 42.39% | 2.481% |

| rteres.txt |        |        |        |    |        |          |        |        |
|------------|--------|--------|--------|----|--------|----------|--------|--------|
| 247        | 16.601 | 16.566 | 16.629 | HH | 713647 | 10296383 | 34.76% | 2.035% |
| 248        | 16.650 | 16.629 | 16.664 | HH | 57900  | 942164   | 3.18%  | 0.186% |
| 249        | 16.688 | 16.664 | 16.714 | HH | 176481 | 2560424  | 8.64%  | 0.506% |
| 250        | 16.739 | 16.714 | 16.776 | HH | 72925  | 1715120  | 5.79%  | 0.339% |
| 251        | 16.827 | 16.776 | 16.870 | HH | 63466  | 2674710  | 9.03%  | 0.529% |
| 252        | 16.904 | 16.870 | 16.914 | HH | 52592  | 1221375  | 4.12%  | 0.241% |
| 253        | 16.949 | 16.914 | 17.025 | HH | 98618  | 4153805  | 14.02% | 0.821% |
| 254        | 17.079 | 17.025 | 17.099 | HH | 75555  | 2651570  | 8.95%  | 0.524% |
| 255        | 17.111 | 17.099 | 17.145 | HH | 62195  | 1299967  | 4.39%  | 0.257% |
| 256        | 17.169 | 17.145 | 17.186 | HH | 53938  | 1082534  | 3.66%  | 0.214% |
| 257        | 17.199 | 17.186 | 17.216 | HH | 46431  | 719235   | 2.43%  | 0.142% |
| 258        | 17.243 | 17.216 | 17.261 | HH | 124691 | 2105284  | 7.11%  | 0.416% |
| 259        | 17.276 | 17.261 | 17.318 | HH | 81877  | 1889817  | 6.38%  | 0.373% |
| 260        | 17.357 | 17.318 | 17.408 | HH | 42443  | 1969413  | 6.65%  | 0.389% |
| 261        | 17.426 | 17.408 | 17.472 | HH | 32025  | 1136687  | 3.84%  | 0.225% |
| 262        | 17.544 | 17.472 | 17.557 | HH | 43842  | 1829704  | 6.18%  | 0.362% |
| 263        | 17.576 | 17.557 | 17.601 | HH | 64809  | 1248243  | 4.21%  | 0.247% |
| 264        | 17.677 | 17.601 | 17.716 | HH | 122097 | 4576624  | 15.45% | 0.904% |
| 265        | 17.735 | 17.716 | 17.795 | HH | 85636  | 2922692  | 9.87%  | 0.578% |
| 266        | 17.869 | 17.795 | 17.927 | HH | 221650 | 7171648  | 24.21% | 1.417% |
| 267        | 17.974 | 17.927 | 17.993 | HH | 528695 | 9060564  | 30.59% | 1.791% |
| 268        | 18.000 | 17.993 | 18.027 | HH | 128892 | 1981344  | 6.69%  | 0.392% |
| 269        | 18.043 | 18.027 | 18.065 | HH | 75476  | 1332255  | 4.50%  | 0.263% |
| 270        | 18.093 | 18.065 | 18.109 | HH | 155087 | 2645845  | 8.93%  | 0.523% |
| 271        | 18.126 | 18.109 | 18.187 | HH | 147736 | 4225122  | 14.27% | 0.835% |
| 272        | 18.234 | 18.187 | 18.275 | HH | 595616 | 10540881 | 35.59% | 2.083% |
| 273        | 18.306 | 18.275 | 18.321 | HH | 63499  | 1484752  | 5.01%  | 0.293% |
| 274        | 18.348 | 18.321 | 18.385 | HH | 101782 | 2503350  | 8.45%  | 0.495% |
| 275        | 18.405 | 18.385 | 18.425 | HH | 49094  | 1114541  | 3.76%  | 0.220% |
| 276        | 18.444 | 18.425 | 18.484 | HH | 48499  | 1616554  | 5.46%  | 0.319% |
| 277        | 18.527 | 18.484 | 18.558 | HH | 61931  | 2198010  | 7.42%  | 0.434% |
| 278        | 18.574 | 18.558 | 18.588 | HH | 44198  | 758337   | 2.56%  | 0.150% |
| 279        | 18.645 | 18.588 | 18.671 | HH | 74864  | 2914544  | 9.84%  | 0.576% |
| 280        | 18.693 | 18.671 | 18.708 | HH | 59190  | 1175883  | 3.97%  | 0.232% |
| 281        | 18.728 | 18.708 | 18.753 | HH | 79521  | 1607413  | 5.43%  | 0.318% |
| 282        | 18.779 | 18.753 | 18.806 | HH | 85833  | 1902767  | 6.42%  | 0.376% |
| 283        | 18.814 | 18.806 | 18.831 | HH | 45505  | 662462   | 2.24%  | 0.131% |
| 284        | 18.851 | 18.831 | 18.862 | HH | 49747  | 854578   | 2.89%  | 0.169% |
| 285        | 18.895 | 18.862 | 18.952 | HH | 104697 | 3622217  | 12.23% | 0.716% |
| 286        | 18.962 | 18.952 | 18.973 | HH | 41400  | 514589   | 1.74%  | 0.102% |
| 287        | 18.992 | 18.973 | 19.015 | HH | 46736  | 1084571  | 3.66%  | 0.214% |
| 288        | 19.028 | 19.015 | 19.048 | HH | 39914  | 776952   | 2.62%  | 0.154% |
| 289        | 19.075 | 19.048 | 19.109 | HH | 44350  | 1498597  | 5.06%  | 0.296% |
| 290        | 19.152 | 19.109 | 19.207 | HH | 48904  | 2665259  | 9.00%  | 0.527% |
| 291        | 19.228 | 19.207 | 19.274 | HH | 52165  | 1758080  | 5.94%  | 0.347% |
| 292        | 19.380 | 19.274 | 19.409 | HH | 188423 | 7140103  | 24.11% | 1.411% |
| 293        | 19.446 | 19.409 | 19.482 | HH | 253912 | 6323317  | 21.35% | 1.250% |
| 294        | 19.537 | 19.482 | 19.558 | HH | 135837 | 4239438  | 14.31% | 0.838% |
| 295        | 19.572 | 19.558 | 19.620 | HH | 82487  | 2207824  | 7.45%  | 0.436% |
| 296        | 19.661 | 19.620 | 19.700 | HH | 90713  | 2710723  | 9.15%  | 0.536% |
| 297        | 19.767 | 19.700 | 19.798 | HH | 347381 | 8259110  | 27.89% | 1.632% |
| 298        | 19.830 | 19.798 | 19.842 | HH | 100184 | 2102056  | 7.10%  | 0.415% |
| 299        | 19.853 | 19.842 | 19.885 | HH | 101118 | 2038632  | 6.88%  | 0.403% |

|     |        |        |        |     |                         |         |           |        |
|-----|--------|--------|--------|-----|-------------------------|---------|-----------|--------|
|     |        |        |        |     | rteres.txt              |         |           |        |
| 300 | 19.906 | 19.885 | 19.930 | HH  | 60760                   | 1472271 | 4.97%     | 0.291% |
| 301 | 19.968 | 19.930 | 19.995 | HH  | 56668                   | 2031076 | 6.86%     | 0.401% |
| 302 | 20.034 | 19.995 | 20.058 | HH  | 60779                   | 2078639 | 7.02%     | 0.411% |
| 303 | 20.068 | 20.058 | 20.086 | HH  | 48945                   | 814802  | 2.75%     | 0.161% |
| 304 | 20.105 | 20.086 | 20.127 | HH  | 52245                   | 1184298 | 4.00%     | 0.234% |
| 305 | 20.182 | 20.127 | 20.207 | HH  | 55700                   | 2349996 | 7.93%     | 0.464% |
| 306 | 20.234 | 20.207 | 20.272 | HH  | 55509                   | 1974750 | 6.67%     | 0.390% |
| 307 | 20.280 | 20.272 | 20.298 | HH  | 50083                   | 778275  | 2.63%     | 0.154% |
| 308 | 20.324 | 20.298 | 20.352 | HH  | 53447                   | 1594333 | 5.38%     | 0.315% |
| 309 | 20.362 | 20.352 | 20.373 | HH  | 46637                   | 609412  | 2.06%     | 0.120% |
| 310 | 20.404 | 20.373 | 20.436 | HH  | 71981                   | 2153160 | 7.27%     | 0.426% |
| 311 | 20.444 | 20.436 | 20.462 | HH  | 49739                   | 762127  | 2.57%     | 0.151% |
| 312 | 20.468 | 20.462 | 20.479 | HH  | 48328                   | 506546  | 1.71%     | 0.100% |
| 313 | 20.492 | 20.479 | 20.532 | HH  | 49229                   | 1448990 | 4.89%     | 0.286% |
| 314 | 20.564 | 20.532 | 20.605 | HH  | 48679                   | 2013843 | 6.80%     | 0.398% |
| 315 | 20.632 | 20.605 | 20.642 | HH  | 45343                   | 987914  | 3.34%     | 0.195% |
| 316 | 20.647 | 20.642 | 20.694 | HH  | 44858                   | 1373560 | 4.64%     | 0.271% |
| 317 | 20.760 | 20.694 | 20.812 | HH  | 72100                   | 3881155 | 13.10%    | 0.767% |
| 318 | 20.837 | 20.812 | 20.875 | HH  | 61066                   | 1961339 | 6.62%     | 0.388% |
| 319 | 20.910 | 20.875 | 20.919 | HH  | 50676                   | 1233819 | 4.17%     | 0.244% |
| 320 | 20.943 | 20.919 | 20.972 | HH  | 60970                   | 1716345 | 5.79%     | 0.339% |
| 321 | 21.026 | 20.972 | 21.056 | HH  | 82463                   | 3127255 | 10.56%    | 0.618% |
| 322 | 21.122 | 21.056 | 21.173 | HH  | 110961                  | 6174912 | 20.85%    | 1.220% |
| 323 | 21.185 | 21.173 | 21.216 | HH  | 67819                   | 1593189 | 5.38%     | 0.315% |
| 324 | 21.225 | 21.216 | 21.250 | HH  | 52328                   | 1021420 | 3.45%     | 0.202% |
| 325 | 21.276 | 21.250 | 21.291 | HH  | 54120                   | 1240811 | 4.19%     | 0.245% |
| 326 | 21.317 | 21.291 | 21.361 | HH  | 64714                   | 2224202 | 7.51%     | 0.440% |
| 327 | 21.404 | 21.361 | 21.443 | HH  | 86009                   | 3019930 | 10.20%    | 0.597% |
| 328 | 21.478 | 21.443 | 21.553 | HH  | 80131                   | 3990228 | 13.47%    | 0.789% |
| 329 | 21.578 | 21.553 | 21.602 | HHA | 53993                   | 1577373 | 5.33%     | 0.312% |
|     |        |        |        |     | Sum of corrected areas: |         | 505991322 |        |

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