

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE030419\  
 Data File : FE029599.D  
 Signal(s) : FID1B.CH  
 Acq On : 04 Mar 2019 19:32  
 Sample : K1643-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\C44-FE030419.M  
 Title :

Signal : FID1B.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         | 2.510       | 2.465        | 2.585      | BH       | 174            | -16029       | -0.06%         | -0.005%       |
| 2         | 2.599       | 2.585        | 2.665      | PH       | 295            | -15169       | -0.06%         | -0.004%       |
| 3         | 2.699       | 2.665        | 2.721      | PH       | -670           | -25922       | -0.09%         | -0.007%       |
| 4         | 2.749       | 2.721        | 2.815      | PH       | 74             | -51757       | -0.19%         | -0.015%       |
| 5         | 2.845       | 2.815        | 2.909      | PH       | -1314          | -81513       | -0.30%         | -0.023%       |
| 6         | 2.921       | 2.909        | 2.932      | PH       | -1554          | -21910       | -0.08%         | -0.006%       |
| 7         | 2.939       | 2.932        | 2.963      | PH       | -1588          | -31206       | -0.11%         | -0.009%       |
| 8         | 2.980       | 2.963        | 3.033      | PH       | -1684          | -75275       | -0.27%         | -0.022%       |
| 9         | 3.061       | 3.033        | 3.083      | PH       | -1729          | -54868       | -0.20%         | -0.016%       |
| 10        | 3.102       | 3.083        | 3.131      | PH       | -1758          | -55177       | -0.20%         | -0.016%       |
| 11        | 3.149       | 3.131        | 3.189      | PH       | -1920          | -69932       | -0.25%         | -0.020%       |
| 12        | 3.198       | 3.189        | 3.216      | PH       | -2031          | -34472       | -0.13%         | -0.010%       |
| 13        | 3.222       | 3.216        | 3.231      | PH       | -2084          | -19154       | -0.07%         | -0.006%       |
| 14        | 3.249       | 3.231        | 3.263      | PH       | -1986          | -38953       | -0.14%         | -0.011%       |
| 15        | 3.289       | 3.263        | 3.308      | PH       | -1724          | -51935       | -0.19%         | -0.015%       |
| 16        | 3.351       | 3.308        | 3.381      | PH       | -1654          | -79459       | -0.29%         | -0.023%       |
| 17        | 3.393       | 3.381        | 3.398      | PH       | -1760          | -18693       | -0.07%         | -0.005%       |
| 18        | 3.416       | 3.398        | 3.424      | PH       | -1645          | -26446       | -0.10%         | -0.008%       |
| 19        | 3.435       | 3.424        | 3.455      | PH       | -1556          | -31338       | -0.11%         | -0.009%       |
| 20        | 3.500       | 3.455        | 3.558      | PH       | -1146          | -88635       | -0.32%         | -0.025%       |
| 21        | 3.565       | 3.558        | 3.582      | PH       | -1355          | -20914       | -0.08%         | -0.006%       |
| 22        | 3.593       | 3.582        | 3.599      | PH       | -1427          | -14841       | -0.05%         | -0.004%       |
| 23        | 3.645       | 3.599        | 3.656      | PH       | -1192          | -46832       | -0.17%         | -0.013%       |
| 24        | 3.664       | 3.656        | 3.698      | PH       | -1281          | -36144       | -0.13%         | -0.010%       |
| 25        | 3.704       | 3.698        | 3.731      | PH       | -1404          | -29378       | -0.11%         | -0.008%       |
| 26        | 3.740       | 3.731        | 3.777      | PH       | -1453          | -45729       | -0.17%         | -0.013%       |
| 27        | 3.810       | 3.777        | 3.863      | PH       | -1603          | -88039       | -0.32%         | -0.025%       |
| 28        | 3.873       | 3.863        | 3.928      | PH       | -1613          | -68813       | -0.25%         | -0.020%       |
| 29        | 3.959       | 3.928        | 4.005      | PH       | -1551          | -85130       | -0.31%         | -0.024%       |
| 30        | 4.016       | 4.005        | 4.031      | PH       | -1983          | -30877       | -0.11%         | -0.009%       |
| 31        | 4.063       | 4.031        | 4.095      | PH       | -1537          | -67997       | -0.25%         | -0.020%       |
| 32        | 4.156       | 4.095        | 4.164      | PH       | -1488          | -66480       | -0.24%         | -0.019%       |
| 33        | 4.204       | 4.164        | 4.269      | PH       | -985           | -80412       | -0.29%         | -0.023%       |
| 34        | 4.295       | 4.269        | 4.408      | PH       | 5371           | 162329       | 0.59%          | 0.047%        |
| 35        | 4.428       | 4.408        | 4.442      | HH       | 2448           | 33834        | 0.12%          | 0.010%        |
| 36        | 4.451       | 4.442        | 4.508      | HH       | 1834           | 29387        | 0.11%          | 0.008%        |

|    |       |       |       |    | rteres |         |        |         |
|----|-------|-------|-------|----|--------|---------|--------|---------|
| 37 | 4.537 | 4.508 | 4.582 | PH | 904    | 9633    | 0.04%  | 0.003%  |
| 38 | 4.596 | 4.582 | 4.668 | PH | 398    | -21268  | -0.08% | -0.006% |
| 39 | 4.682 | 4.668 | 4.698 | PH | -881   | -17474  | -0.06% | -0.005% |
| 40 | 4.720 | 4.698 | 4.804 | PH | 408    | -31030  | -0.11% | -0.009% |
| 41 | 4.816 | 4.804 | 4.846 | PH | -905   | -27417  | -0.10% | -0.008% |
| 42 | 4.863 | 4.846 | 4.895 | PH | -643   | -31905  | -0.12% | -0.009% |
| 43 | 4.913 | 4.895 | 4.925 | PH | -997   | -19687  | -0.07% | -0.006% |
| 44 | 4.938 | 4.925 | 4.961 | PH | -880   | -23949  | -0.09% | -0.007% |
| 45 | 4.976 | 4.961 | 5.032 | PH | -1282  | -62545  | -0.23% | -0.018% |
| 46 | 5.042 | 5.032 | 5.062 | PH | -1635  | -30514  | -0.11% | -0.009% |
| 47 | 5.110 | 5.062 | 5.136 | PH | -730   | -55055  | -0.20% | -0.016% |
| 48 | 5.158 | 5.136 | 5.191 | PH | -638   | -30824  | -0.11% | -0.009% |
| 49 | 5.216 | 5.191 | 5.264 | PH | -799   | -37988  | -0.14% | -0.011% |
| 50 | 5.288 | 5.264 | 5.330 | PH | 2856   | 60667   | 0.22%  | 0.017%  |
| 51 | 5.374 | 5.330 | 5.435 | HH | 2146   | 72645   | 0.26%  | 0.021%  |
| 52 | 5.461 | 5.435 | 5.548 | PH | 3095   | 53279   | 0.19%  | 0.015%  |
| 53 | 5.574 | 5.548 | 5.591 | PH | -103   | -12224  | -0.04% | -0.004% |
| 54 | 5.626 | 5.591 | 5.664 | PH | 18     | -15707  | -0.06% | -0.005% |
| 55 | 5.718 | 5.664 | 5.820 | PH | 25006  | 498501  | 1.81%  | 0.143%  |
| 56 | 5.869 | 5.820 | 5.929 | PH | 11531  | 127237  | 0.46%  | 0.037%  |
| 57 | 5.967 | 5.929 | 6.047 | PH | 180    | -23779  | -0.09% | -0.007% |
| 58 | 6.080 | 6.047 | 6.108 | PH | -409   | -27277  | -0.10% | -0.008% |
| 59 | 6.137 | 6.108 | 6.153 | PH | 117    | -9664   | -0.04% | -0.003% |
| 60 | 6.221 | 6.153 | 6.242 | PH | 32228  | 586085  | 2.13%  | 0.169%  |
| 61 | 6.253 | 6.242 | 6.322 | HH | 9836   | 198503  | 0.72%  | 0.057%  |
| 62 | 6.338 | 6.322 | 6.378 | HH | 2568   | 57990   | 0.21%  | 0.017%  |
| 63 | 6.391 | 6.378 | 6.422 | HH | 1261   | 24358   | 0.09%  | 0.007%  |
| 64 | 6.451 | 6.422 | 6.528 | HH | 1356   | 41541   | 0.15%  | 0.012%  |
| 65 | 6.550 | 6.528 | 6.604 | HH | 666    | 1992    | 0.01%  | 0.001%  |
| 66 | 6.650 | 6.604 | 6.721 | PH | 1079   | 39410   | 0.14%  | 0.011%  |
| 67 | 6.737 | 6.721 | 6.782 | HH | 1730   | 35471   | 0.13%  | 0.010%  |
| 68 | 6.811 | 6.782 | 6.823 | HH | 801    | 14818   | 0.05%  | 0.004%  |
| 69 | 6.863 | 6.823 | 6.886 | HH | 3391   | 54954   | 0.20%  | 0.016%  |
| 70 | 6.899 | 6.886 | 6.932 | HH | 1738   | 23530   | 0.09%  | 0.007%  |
| 71 | 6.970 | 6.932 | 6.986 | HH | 960    | 14976   | 0.05%  | 0.004%  |
| 72 | 7.004 | 6.986 | 7.030 | HH | 738    | 14444   | 0.05%  | 0.004%  |
| 73 | 7.112 | 7.030 | 7.125 | HH | 46422  | 953620  | 3.47%  | 0.274%  |
| 74 | 7.142 | 7.125 | 7.237 | HH | 58130  | 2486734 | 9.04%  | 0.715%  |
| 75 | 7.251 | 7.237 | 7.455 | HH | 19939  | 1516057 | 5.51%  | 0.436%  |
| 76 | 7.468 | 7.455 | 7.515 | HH | 7153   | 215907  | 0.79%  | 0.062%  |
| 77 | 7.531 | 7.515 | 7.583 | HH | 6224   | 218701  | 0.80%  | 0.063%  |
| 78 | 7.594 | 7.583 | 7.655 | HH | 4827   | 180318  | 0.66%  | 0.052%  |
| 79 | 7.657 | 7.655 | 7.669 | HH | 3800   | 30596   | 0.11%  | 0.009%  |
| 80 | 7.691 | 7.669 | 7.739 | HH | 4715   | 175211  | 0.64%  | 0.050%  |
| 81 | 7.762 | 7.739 | 7.795 | HH | 11600  | 198453  | 0.72%  | 0.057%  |
| 82 | 7.830 | 7.795 | 7.844 | HH | 3712   | 98649   | 0.36%  | 0.028%  |
| 83 | 7.857 | 7.844 | 7.868 | HH | 3851   | 54786   | 0.20%  | 0.016%  |
| 84 | 7.876 | 7.868 | 7.890 | HH | 3791   | 45728   | 0.17%  | 0.013%  |
| 85 | 7.940 | 7.890 | 8.055 | HH | 17159  | 600459  | 2.18%  | 0.173%  |
| 86 | 8.070 | 8.055 | 8.085 | HH | 3759   | 61555   | 0.22%  | 0.018%  |
| 87 | 8.115 | 8.085 | 8.140 | HH | 4799   | 125106  | 0.45%  | 0.036%  |
| 88 | 8.169 | 8.140 | 8.197 | HH | 4969   | 133558  | 0.49%  | 0.038%  |
| 89 | 8.231 | 8.197 | 8.243 | HH | 3797   | 90478   | 0.33%  | 0.026%  |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        |    | rteres |         |        |        |
| 90  | 8.254  | 8.243  | 8.288  | HH | 3505   | 88839   | 0.32%  | 0.026% |
| 91  | 8.341  | 8.288  | 8.405  | HH | 5789   | 271745  | 0.99%  | 0.078% |
| 92  | 8.434  | 8.405  | 8.540  | HH | 34395  | 849182  | 3.09%  | 0.244% |
| 93  | 8.573  | 8.540  | 8.604  | HH | 6914   | 207449  | 0.75%  | 0.060% |
| 94  | 8.617  | 8.604  | 8.658  | HH | 5215   | 145578  | 0.53%  | 0.042% |
| 95  | 8.681  | 8.658  | 8.697  | HH | 5817   | 123279  | 0.45%  | 0.035% |
| 96  | 8.713  | 8.697  | 8.745  | HH | 7051   | 155069  | 0.56%  | 0.045% |
| 97  | 8.779  | 8.745  | 8.800  | HH | 11516  | 229986  | 0.84%  | 0.066% |
| 98  | 8.835  | 8.800  | 8.917  | HH | 9213   | 421901  | 1.53%  | 0.121% |
| 99  | 8.928  | 8.917  | 8.941  | HH | 4698   | 65113   | 0.24%  | 0.019% |
| 100 | 8.958  | 8.941  | 8.979  | HH | 5783   | 109184  | 0.40%  | 0.031% |
| 101 | 9.008  | 8.979  | 9.026  | HH | 4473   | 122507  | 0.45%  | 0.035% |
| 102 | 9.036  | 9.026  | 9.064  | HH | 4103   | 85718   | 0.31%  | 0.025% |
| 103 | 9.097  | 9.064  | 9.140  | HH | 5353   | 211908  | 0.77%  | 0.061% |
| 104 | 9.163  | 9.140  | 9.186  | HH | 7204   | 145710  | 0.53%  | 0.042% |
| 105 | 9.198  | 9.186  | 9.220  | HH | 4411   | 86951   | 0.32%  | 0.025% |
| 106 | 9.311  | 9.220  | 9.334  | HH | 6030   | 345075  | 1.25%  | 0.099% |
| 107 | 9.344  | 9.334  | 9.385  | HH | 5915   | 155923  | 0.57%  | 0.045% |
| 108 | 9.431  | 9.385  | 9.449  | HH | 10154  | 268919  | 0.98%  | 0.077% |
| 109 | 9.463  | 9.449  | 9.485  | HH | 9672   | 183570  | 0.67%  | 0.053% |
| 110 | 9.501  | 9.485  | 9.518  | HH | 10714  | 172308  | 0.63%  | 0.050% |
| 111 | 9.537  | 9.518  | 9.554  | HH | 25027  | 335028  | 1.22%  | 0.096% |
| 112 | 9.569  | 9.554  | 9.630  | HH | 39137  | 724725  | 2.64%  | 0.208% |
| 113 | 9.645  | 9.630  | 9.657  | HH | 7559   | 116633  | 0.42%  | 0.034% |
| 114 | 9.665  | 9.657  | 9.701  | HH | 7383   | 175614  | 0.64%  | 0.050% |
| 115 | 9.721  | 9.701  | 9.755  | HH | 6944   | 198198  | 0.72%  | 0.057% |
| 116 | 9.783  | 9.755  | 9.813  | HH | 11351  | 262088  | 0.95%  | 0.075% |
| 117 | 9.822  | 9.813  | 9.840  | HH | 6372   | 98843   | 0.36%  | 0.028% |
| 118 | 9.864  | 9.840  | 9.884  | HH | 6557   | 159178  | 0.58%  | 0.046% |
| 119 | 9.902  | 9.884  | 9.925  | HH | 7069   | 157407  | 0.57%  | 0.045% |
| 120 | 9.943  | 9.925  | 9.982  | HH | 11805  | 276430  | 1.01%  | 0.079% |
| 121 | 10.008 | 9.982  | 10.061 | HH | 8234   | 354183  | 1.29%  | 0.102% |
| 122 | 10.080 | 10.061 | 10.098 | HH | 8474   | 173803  | 0.63%  | 0.050% |
| 123 | 10.116 | 10.098 | 10.153 | HH | 8256   | 263232  | 0.96%  | 0.076% |
| 124 | 10.191 | 10.153 | 10.202 | HH | 8435   | 237846  | 0.87%  | 0.068% |
| 125 | 10.215 | 10.202 | 10.235 | HH | 8498   | 161122  | 0.59%  | 0.046% |
| 126 | 10.286 | 10.235 | 10.315 | HH | 14663  | 480907  | 1.75%  | 0.138% |
| 127 | 10.330 | 10.315 | 10.354 | HH | 11047  | 236205  | 0.86%  | 0.068% |
| 128 | 10.402 | 10.354 | 10.430 | HH | 12104  | 473713  | 1.72%  | 0.136% |
| 129 | 10.445 | 10.430 | 10.454 | HH | 10717  | 151154  | 0.55%  | 0.043% |
| 130 | 10.471 | 10.454 | 10.518 | HH | 13903  | 421674  | 1.53%  | 0.121% |
| 131 | 10.569 | 10.518 | 10.598 | HH | 16166  | 591392  | 2.15%  | 0.170% |
| 132 | 10.615 | 10.598 | 10.633 | HH | 15723  | 277553  | 1.01%  | 0.080% |
| 133 | 10.650 | 10.633 | 10.660 | HH | 13384  | 217469  | 0.79%  | 0.063% |
| 134 | 10.682 | 10.660 | 10.720 | HH | 17924  | 499268  | 1.82%  | 0.144% |
| 135 | 10.749 | 10.720 | 10.766 | HH | 17396  | 411462  | 1.50%  | 0.118% |
| 136 | 10.775 | 10.766 | 10.791 | HH | 15971  | 240055  | 0.87%  | 0.069% |
| 137 | 10.812 | 10.791 | 10.838 | HH | 18715  | 477140  | 1.74%  | 0.137% |
| 138 | 10.873 | 10.838 | 10.914 | HH | 17996  | 761996  | 2.77%  | 0.219% |
| 139 | 10.928 | 10.914 | 10.970 | HH | 17510  | 547703  | 1.99%  | 0.157% |
| 140 | 11.023 | 10.970 | 11.112 | HH | 195090 | 4714209 | 17.14% | 1.355% |
| 141 | 11.129 | 11.112 | 11.143 | HH | 19259  | 335387  | 1.22%  | 0.096% |

| rteres |        |        |        |    |        |          |         |        |
|--------|--------|--------|--------|----|--------|----------|---------|--------|
| 142    | 11.165 | 11.143 | 11.202 | HH | 20523  | 653282   | 2.38%   | 0.188% |
| 143    | 11.228 | 11.202 | 11.259 | HH | 18354  | 599683   | 2.18%   | 0.172% |
| 144    | 11.286 | 11.259 | 11.338 | HH | 40218  | 1229300  | 4.47%   | 0.353% |
| 145    | 11.360 | 11.338 | 11.370 | HH | 26577  | 461324   | 1.68%   | 0.133% |
|        |        |        |        |    |        |          |         |        |
| 146    | 11.385 | 11.370 | 11.399 | HH | 27845  | 458208   | 1.67%   | 0.132% |
| 147    | 11.409 | 11.399 | 11.428 | HH | 25878  | 400618   | 1.46%   | 0.115% |
| 148    | 11.444 | 11.428 | 11.460 | HH | 27575  | 468502   | 1.70%   | 0.135% |
| 149    | 11.471 | 11.460 | 11.484 | HH | 24855  | 356132   | 1.30%   | 0.102% |
| 150    | 11.496 | 11.484 | 11.523 | HH | 25858  | 537717   | 1.96%   | 0.155% |
|        |        |        |        |    |        |          |         |        |
| 151    | 11.574 | 11.523 | 11.614 | HH | 31123  | 1310602  | 4.77%   | 0.377% |
| 152    | 11.633 | 11.614 | 11.660 | HH | 23580  | 634877   | 2.31%   | 0.183% |
| 153    | 11.683 | 11.660 | 11.723 | HH | 64534  | 1377771  | 5.01%   | 0.396% |
| 154    | 11.742 | 11.723 | 11.763 | HH | 31507  | 681118   | 2.48%   | 0.196% |
| 155    | 11.798 | 11.763 | 11.810 | HH | 31846  | 851101   | 3.10%   | 0.245% |
|        |        |        |        |    |        |          |         |        |
| 156    | 11.821 | 11.810 | 11.852 | HH | 31544  | 732530   | 2.66%   | 0.211% |
| 157    | 11.889 | 11.852 | 11.911 | HH | 30160  | 1027880  | 3.74%   | 0.296% |
| 158    | 11.930 | 11.911 | 11.942 | HH | 29972  | 537917   | 1.96%   | 0.155% |
| 159    | 11.952 | 11.942 | 11.965 | HH | 29376  | 400341   | 1.46%   | 0.115% |
| 160    | 11.978 | 11.965 | 12.004 | HH | 29395  | 679003   | 2.47%   | 0.195% |
|        |        |        |        |    |        |          |         |        |
| 161    | 12.034 | 12.004 | 12.044 | HH | 31753  | 711676   | 2.59%   | 0.205% |
| 162    | 12.060 | 12.044 | 12.085 | HH | 36375  | 809744   | 2.94%   | 0.233% |
| 163    | 12.116 | 12.085 | 12.144 | HH | 41490  | 1333003  | 4.85%   | 0.383% |
| 164    | 12.169 | 12.144 | 12.245 | HH | 159672 | 3506430  | 12.75%  | 1.008% |
| 165    | 12.263 | 12.245 | 12.281 | HH | 40591  | 841238   | 3.06%   | 0.242% |
|        |        |        |        |    |        |          |         |        |
| 166    | 12.302 | 12.281 | 12.316 | HH | 45970  | 882790   | 3.21%   | 0.254% |
| 167    | 12.424 | 12.316 | 12.483 | HH | 710296 | 27496141 | 100.00% | 7.906% |
| 168    | 12.495 | 12.483 | 12.521 | HH | 52805  | 1139759  | 4.15%   | 0.328% |
| 169    | 12.530 | 12.521 | 12.544 | HH | 48947  | 685282   | 2.49%   | 0.197% |
| 170    | 12.564 | 12.544 | 12.600 | HH | 49195  | 1599919  | 5.82%   | 0.460% |
|        |        |        |        |    |        |          |         |        |
| 171    | 12.610 | 12.600 | 12.618 | HH | 47752  | 524768   | 1.91%   | 0.151% |
| 172    | 12.650 | 12.618 | 12.677 | HH | 50987  | 1720408  | 6.26%   | 0.495% |
| 173    | 12.702 | 12.677 | 12.728 | HH | 62354  | 1646593  | 5.99%   | 0.473% |
| 174    | 12.763 | 12.728 | 12.784 | HH | 61109  | 1847732  | 6.72%   | 0.531% |
| 175    | 12.812 | 12.784 | 12.837 | HH | 84232  | 2022716  | 7.36%   | 0.582% |
|        |        |        |        |    |        |          |         |        |
| 176    | 12.849 | 12.837 | 12.882 | HH | 56600  | 1497881  | 5.45%   | 0.431% |
| 177    | 12.903 | 12.882 | 12.938 | HH | 65285  | 1864210  | 6.78%   | 0.536% |
| 178    | 12.976 | 12.938 | 13.010 | HH | 95738  | 2862007  | 10.41%  | 0.823% |
| 179    | 13.041 | 13.010 | 13.061 | HH | 59942  | 1747124  | 6.35%   | 0.502% |
| 180    | 13.085 | 13.061 | 13.140 | HH | 90069  | 3003669  | 10.92%  | 0.864% |
|        |        |        |        |    |        |          |         |        |
| 181    | 13.162 | 13.140 | 13.194 | HH | 70141  | 1911146  | 6.95%   | 0.550% |
| 182    | 13.218 | 13.194 | 13.244 | HH | 60945  | 1684081  | 6.12%   | 0.484% |
| 183    | 13.267 | 13.244 | 13.286 | HH | 76215  | 1598991  | 5.82%   | 0.460% |
| 184    | 13.315 | 13.286 | 13.331 | HH | 84804  | 1870298  | 6.80%   | 0.538% |
| 185    | 13.357 | 13.331 | 13.394 | HH | 114470 | 3217314  | 11.70%  | 0.925% |
|        |        |        |        |    |        |          |         |        |
| 186    | 13.425 | 13.394 | 13.504 | HH | 213505 | 6610358  | 24.04%  | 1.901% |
| 187    | 13.515 | 13.504 | 13.555 | HH | 71507  | 2067366  | 7.52%   | 0.594% |
| 188    | 13.617 | 13.555 | 13.651 | HH | 509870 | 13368754 | 48.62%  | 3.844% |
| 189    | 13.662 | 13.651 | 13.672 | HH | 73089  | 907526   | 3.30%   | 0.261% |
| 190    | 13.683 | 13.672 | 13.707 | HH | 73164  | 1415473  | 5.15%   | 0.407% |
|        |        |        |        |    |        |          |         |        |
| 191    | 13.719 | 13.707 | 13.729 | HH | 64486  | 859213   | 3.12%   | 0.247% |
| 192    | 13.743 | 13.729 | 13.785 | HH | 66019  | 2087358  | 7.59%   | 0.600% |
| 193    | 13.812 | 13.785 | 13.846 | HH | 69339  | 2355362  | 8.57%   | 0.677% |
| 194    | 13.862 | 13.846 | 13.872 | HH | 63872  | 979149   | 3.56%   | 0.282% |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        |    | rteres |         |        |        |
| 195 | 13.903 | 13.872 | 13.933 | HH | 106066 | 2811366 | 10.22% | 0.808% |
| 196 | 13.953 | 13.933 | 13.965 | HH | 65392  | 1226194 | 4.46%  | 0.353% |
| 197 | 13.980 | 13.965 | 13.993 | HH | 67357  | 1092961 | 3.97%  | 0.314% |
| 198 | 14.011 | 13.993 | 14.053 | HH | 82734  | 2466473 | 8.97%  | 0.709% |
| 199 | 14.060 | 14.053 | 14.070 | HH | 62899  | 663402  | 2.41%  | 0.191% |
| 200 | 14.101 | 14.070 | 14.111 | HH | 62961  | 1514292 | 5.51%  | 0.435% |
| 201 | 14.160 | 14.111 | 14.195 | HH | 70813  | 3348733 | 12.18% | 0.963% |
| 202 | 14.214 | 14.195 | 14.236 | HH | 64785  | 1571979 | 5.72%  | 0.452% |
| 203 | 14.284 | 14.236 | 14.311 | HH | 84592  | 3331722 | 12.12% | 0.958% |
| 204 | 14.322 | 14.311 | 14.348 | HH | 82419  | 1616714 | 5.88%  | 0.465% |
| 205 | 14.366 | 14.348 | 14.378 | HH | 67233  | 1234054 | 4.49%  | 0.355% |
| 206 | 14.404 | 14.378 | 14.442 | HH | 71869  | 2555045 | 9.29%  | 0.735% |
| 207 | 14.468 | 14.442 | 14.484 | HH | 99877  | 1964207 | 7.14%  | 0.565% |
| 208 | 14.501 | 14.484 | 14.542 | HH | 95424  | 2724203 | 9.91%  | 0.783% |
| 209 | 14.564 | 14.542 | 14.574 | HH | 68984  | 1288851 | 4.69%  | 0.371% |
| 210 | 14.584 | 14.574 | 14.618 | HH | 68480  | 1744289 | 6.34%  | 0.502% |
| 211 | 14.630 | 14.618 | 14.657 | HH | 63960  | 1455750 | 5.29%  | 0.419% |
| 212 | 14.668 | 14.657 | 14.690 | HH | 64568  | 1239173 | 4.51%  | 0.356% |
| 213 | 14.712 | 14.690 | 14.745 | HH | 87789  | 2334384 | 8.49%  | 0.671% |
| 214 | 14.808 | 14.745 | 14.848 | HH | 294093 | 6638506 | 24.14% | 1.909% |
| 215 | 14.861 | 14.848 | 14.888 | HH | 61828  | 1437717 | 5.23%  | 0.413% |
| 216 | 14.911 | 14.888 | 14.924 | HH | 60401  | 1269638 | 4.62%  | 0.365% |
| 217 | 14.944 | 14.924 | 14.965 | HH | 62598  | 1473376 | 5.36%  | 0.424% |
| 218 | 14.972 | 14.965 | 14.987 | HH | 60385  | 795897  | 2.89%  | 0.229% |
| 219 | 15.008 | 14.987 | 15.048 | HH | 92325  | 2439783 | 8.87%  | 0.701% |
| 220 | 15.064 | 15.048 | 15.083 | HH | 57450  | 1172006 | 4.26%  | 0.337% |
| 221 | 15.106 | 15.083 | 15.165 | HH | 58678  | 2717325 | 9.88%  | 0.781% |
| 222 | 15.183 | 15.165 | 15.233 | HH | 60433  | 2293935 | 8.34%  | 0.660% |
| 223 | 15.264 | 15.233 | 15.284 | HH | 57923  | 1710940 | 6.22%  | 0.492% |
| 224 | 15.305 | 15.284 | 15.332 | HH | 65026  | 1634252 | 5.94%  | 0.470% |
| 225 | 15.395 | 15.332 | 15.443 | HH | 104664 | 4678991 | 17.02% | 1.345% |
| 226 | 15.460 | 15.443 | 15.509 | HH | 58924  | 2150226 | 7.82%  | 0.618% |
| 227 | 15.532 | 15.509 | 15.544 | HH | 83079  | 1406703 | 5.12%  | 0.404% |
| 228 | 15.561 | 15.544 | 15.598 | HH | 134279 | 2558423 | 9.30%  | 0.736% |
| 229 | 15.641 | 15.598 | 15.661 | HH | 68518  | 2155160 | 7.84%  | 0.620% |
| 230 | 15.672 | 15.661 | 15.695 | HH | 53095  | 1013082 | 3.68%  | 0.291% |
| 231 | 15.720 | 15.695 | 15.740 | HH | 51016  | 1330072 | 4.84%  | 0.382% |
| 232 | 15.763 | 15.740 | 15.811 | HH | 55307  | 2154326 | 7.84%  | 0.619% |
| 233 | 15.822 | 15.811 | 15.838 | HH | 49689  | 815671  | 2.97%  | 0.235% |
| 234 | 15.855 | 15.838 | 15.882 | HH | 49754  | 1275049 | 4.64%  | 0.367% |
| 235 | 15.930 | 15.882 | 15.953 | HH | 49374  | 2038416 | 7.41%  | 0.586% |
| 236 | 15.960 | 15.953 | 15.985 | HH | 47148  | 874273  | 3.18%  | 0.251% |
| 237 | 15.999 | 15.985 | 16.007 | HH | 46076  | 623618  | 2.27%  | 0.179% |
| 238 | 16.033 | 16.007 | 16.093 | HH | 83859  | 2813915 | 10.23% | 0.809% |
| 239 | 16.112 | 16.093 | 16.128 | HH | 46709  | 975016  | 3.55%  | 0.280% |
| 240 | 16.137 | 16.128 | 16.167 | HH | 46072  | 1037633 | 3.77%  | 0.298% |
| 241 | 16.180 | 16.167 | 16.213 | HH | 45556  | 1220622 | 4.44%  | 0.351% |
| 242 | 16.239 | 16.213 | 16.285 | HH | 45898  | 1908674 | 6.94%  | 0.549% |
| 243 | 16.320 | 16.285 | 16.333 | HH | 45193  | 1263999 | 4.60%  | 0.363% |
| 244 | 16.342 | 16.333 | 16.355 | HH | 44439  | 576512  | 2.10%  | 0.166% |
| 245 | 16.386 | 16.355 | 16.396 | HH | 50390  | 1166082 | 4.24%  | 0.335% |
| 246 | 16.404 | 16.396 | 16.444 | HH | 49597  | 1318599 | 4.80%  | 0.379% |

| rteres |        |        |        |    |        |         |        |        |
|--------|--------|--------|--------|----|--------|---------|--------|--------|
| 247    | 16.466 | 16.444 | 16.482 | HH | 53890  | 1093350 | 3.98%  | 0.314% |
| 248    | 16.516 | 16.482 | 16.565 | HH | 99897  | 2850482 | 10.37% | 0.820% |
| 249    | 16.612 | 16.565 | 16.643 | HH | 42916  | 1915699 | 6.97%  | 0.551% |
| 250    | 16.685 | 16.643 | 16.722 | HH | 42290  | 1897367 | 6.90%  | 0.546% |
| 251    | 16.754 | 16.722 | 16.778 | HH | 39895  | 1309839 | 4.76%  | 0.377% |
| 252    | 16.813 | 16.778 | 16.837 | HH | 39589  | 1340870 | 4.88%  | 0.386% |
| 253    | 16.864 | 16.837 | 16.887 | HH | 39436  | 1147994 | 4.18%  | 0.330% |
| 254    | 16.899 | 16.887 | 16.941 | HH | 37299  | 1181887 | 4.30%  | 0.340% |
| 255    | 16.984 | 16.941 | 17.018 | HH | 104780 | 2469295 | 8.98%  | 0.710% |
| 256    | 17.036 | 17.018 | 17.080 | HH | 38992  | 1365581 | 4.97%  | 0.393% |
| 257    | 17.096 | 17.080 | 17.128 | HH | 36196  | 1023825 | 3.72%  | 0.294% |
| 258    | 17.150 | 17.128 | 17.208 | HH | 42178  | 1787628 | 6.50%  | 0.514% |
| 259    | 17.223 | 17.208 | 17.234 | HH | 35173  | 528139  | 1.92%  | 0.152% |
| 260    | 17.247 | 17.234 | 17.261 | HH | 36045  | 585419  | 2.13%  | 0.168% |
| 261    | 17.277 | 17.261 | 17.298 | HH | 36301  | 785732  | 2.86%  | 0.226% |
| 262    | 17.321 | 17.298 | 17.342 | HH | 36336  | 926901  | 3.37%  | 0.267% |
| 263    | 17.356 | 17.342 | 17.408 | HH | 35121  | 1356636 | 4.93%  | 0.390% |
| 264    | 17.436 | 17.408 | 17.504 | HH | 107645 | 2680873 | 9.75%  | 0.771% |
| 265    | 17.533 | 17.504 | 17.545 | HH | 33053  | 803931  | 2.92%  | 0.231% |
| 266    | 17.555 | 17.545 | 17.608 | HH | 32706  | 1201808 | 4.37%  | 0.346% |
| 267    | 17.658 | 17.608 | 17.682 | HH | 33594  | 1449987 | 5.27%  | 0.417% |
| 268    | 17.721 | 17.682 | 17.749 | HH | 34967  | 1304028 | 4.74%  | 0.375% |
| 269    | 17.763 | 17.749 | 17.788 | HH | 31874  | 728230  | 2.65%  | 0.209% |
| 270    | 17.823 | 17.788 | 17.848 | HH | 37805  | 1184361 | 4.31%  | 0.341% |
| 271    | 17.875 | 17.848 | 17.904 | HH | 102771 | 1821661 | 6.63%  | 0.524% |
| 272    | 17.935 | 17.904 | 17.980 | HH | 31756  | 1397749 | 5.08%  | 0.402% |
| 273    | 18.000 | 17.980 | 18.018 | HH | 30601  | 690663  | 2.51%  | 0.199% |
| 274    | 18.077 | 18.018 | 18.104 | HH | 37126  | 1686877 | 6.13%  | 0.485% |
| 275    | 18.124 | 18.104 | 18.174 | HH | 36728  | 1337027 | 4.86%  | 0.384% |
| 276    | 18.192 | 18.174 | 18.207 | HH | 30526  | 584951  | 2.13%  | 0.168% |
| 277    | 18.238 | 18.207 | 18.275 | HH | 44284  | 1424193 | 5.18%  | 0.409% |
| 278    | 18.298 | 18.275 | 18.378 | HH | 85975  | 2378662 | 8.65%  | 0.684% |
| 279    | 18.405 | 18.378 | 18.455 | HH | 30269  | 1295010 | 4.71%  | 0.372% |
| 280    | 18.486 | 18.455 | 18.531 | HH | 30106  | 1277826 | 4.65%  | 0.367% |
| 281    | 18.561 | 18.531 | 18.582 | HH | 28480  | 821184  | 2.99%  | 0.236% |
| 282    | 18.616 | 18.582 | 18.647 | HH | 32668  | 1106097 | 4.02%  | 0.318% |
| 283    | 18.708 | 18.647 | 18.777 | HH | 63222  | 2498732 | 9.09%  | 0.718% |
| 284    | 18.796 | 18.777 | 18.815 | HH | 26630  | 584390  | 2.13%  | 0.168% |
| 285    | 18.850 | 18.815 | 18.899 | HH | 29587  | 1371253 | 4.99%  | 0.394% |
| 286    | 18.913 | 18.899 | 18.932 | HH | 26477  | 506764  | 1.84%  | 0.146% |
| 287    | 18.944 | 18.932 | 18.978 | HH | 25570  | 710360  | 2.58%  | 0.204% |
| 288    | 19.003 | 18.978 | 19.024 | HH | 26139  | 689206  | 2.51%  | 0.198% |
| 289    | 19.035 | 19.024 | 19.042 | HH | 25759  | 281751  | 1.02%  | 0.081% |
| 290    | 19.086 | 19.042 | 19.096 | HH | 44851  | 1180300 | 4.29%  | 0.339% |
| 291    | 19.103 | 19.096 | 19.123 | HH | 43762  | 624050  | 2.27%  | 0.179% |
| 292    | 19.139 | 19.123 | 19.176 | HH | 35981  | 931565  | 3.39%  | 0.268% |
| 293    | 19.211 | 19.176 | 19.260 | HH | 28997  | 1336824 | 4.86%  | 0.384% |
| 294    | 19.278 | 19.260 | 19.294 | HH | 26848  | 538484  | 1.96%  | 0.155% |
| 295    | 19.317 | 19.294 | 19.337 | HH | 30088  | 710334  | 2.58%  | 0.204% |
| 296    | 19.360 | 19.337 | 19.408 | HH | 33796  | 1173267 | 4.27%  | 0.337% |
| 297    | 19.436 | 19.408 | 19.459 | HH | 42065  | 960230  | 3.49%  | 0.276% |
| 298    | 19.492 | 19.459 | 19.518 | HH | 33809  | 1031606 | 3.75%  | 0.297% |
| 299    | 19.538 | 19.518 | 19.567 | HH | 25139  | 709496  | 2.58%  | 0.204% |

|     |        |        |        |    |        |         |       |        |
|-----|--------|--------|--------|----|--------|---------|-------|--------|
|     |        |        |        |    | rteres |         |       |        |
| 300 | 19.594 | 19.567 | 19.663 | HH | 29018  | 1460411 | 5.31% | 0.420% |
| 301 | 19.688 | 19.663 | 19.703 | HH | 26894  | 589405  | 2.14% | 0.169% |
| 302 | 19.715 | 19.703 | 19.757 | HH | 25828  | 805689  | 2.93% | 0.232% |
| 303 | 19.796 | 19.757 | 19.832 | HH | 26871  | 1135521 | 4.13% | 0.326% |
| 304 | 19.869 | 19.832 | 19.880 | HH | 30958  | 793964  | 2.89% | 0.228% |
| 305 | 19.897 | 19.880 | 19.922 | HH | 39290  | 789878  | 2.87% | 0.227% |
| 306 | 19.932 | 19.922 | 19.981 | HH | 24056  | 841041  | 3.06% | 0.242% |
| 307 | 20.000 | 19.981 | 20.042 | HH | 24469  | 854020  | 3.11% | 0.246% |
| 308 | 20.065 | 20.042 | 20.093 | HH | 24235  | 725003  | 2.64% | 0.208% |
| 309 | 20.156 | 20.093 | 20.193 | HH | 29227  | 1542775 | 5.61% | 0.444% |
| 310 | 20.211 | 20.193 | 20.223 | HH | 27897  | 465607  | 1.69% | 0.134% |
| 311 | 20.233 | 20.223 | 20.262 | HH | 27331  | 599676  | 2.18% | 0.172% |
| 312 | 20.277 | 20.262 | 20.306 | HH | 24556  | 621377  | 2.26% | 0.179% |
| 313 | 20.316 | 20.306 | 20.365 | HH | 22476  | 781682  | 2.84% | 0.225% |
| 314 | 20.411 | 20.365 | 20.449 | HH | 32286  | 1234172 | 4.49% | 0.355% |
| 315 | 20.491 | 20.449 | 20.538 | HH | 22442  | 1153969 | 4.20% | 0.332% |
| 316 | 20.566 | 20.538 | 20.581 | HH | 21270  | 528215  | 1.92% | 0.152% |
| 317 | 20.626 | 20.581 | 20.662 | HH | 33815  | 1195105 | 4.35% | 0.344% |
| 318 | 20.704 | 20.662 | 20.729 | HH | 20659  | 822106  | 2.99% | 0.236% |
| 319 | 20.778 | 20.729 | 20.895 | HH | 25324  | 2051188 | 7.46% | 0.590% |
| 320 | 20.903 | 20.895 | 20.918 | HH | 18975  | 261120  | 0.95% | 0.075% |
| 321 | 20.929 | 20.918 | 20.945 | HH | 18774  | 301350  | 1.10% | 0.087% |
| 322 | 20.992 | 20.945 | 21.028 | HH | 19972  | 942604  | 3.43% | 0.271% |
| 323 | 21.048 | 21.028 | 21.133 | HH | 18688  | 1116051 | 4.06% | 0.321% |
| 324 | 21.146 | 21.133 | 21.175 | HH | 17307  | 428336  | 1.56% | 0.123% |
| 325 | 21.196 | 21.175 | 21.222 | HH | 17707  | 483983  | 1.76% | 0.139% |
| 326 | 21.243 | 21.222 | 21.300 | HH | 16924  | 771698  | 2.81% | 0.222% |
| 327 | 21.338 | 21.300 | 21.398 | HH | 18374  | 984871  | 3.58% | 0.283% |
| 328 | 21.437 | 21.398 | 21.468 | HH | 16883  | 680832  | 2.48% | 0.196% |
| 329 | 21.484 | 21.468 | 21.500 | HH | 16243  | 301609  | 1.10% | 0.087% |
| 330 | 21.565 | 21.500 | 21.656 | HH | 17135  | 1488498 | 5.41% | 0.428% |
| 331 | 21.660 | 21.656 | 21.669 | HH | 14574  | 112530  | 0.41% | 0.032% |
| 332 | 21.698 | 21.669 | 21.753 | HH | 14831  | 732848  | 2.67% | 0.211% |
| 333 | 21.818 | 21.753 | 21.863 | HH | 14729  | 939695  | 3.42% | 0.270% |
| 334 | 21.882 | 21.863 | 21.895 | HH | 14184  | 265704  | 0.97% | 0.076% |
| 335 | 21.936 | 21.895 | 21.966 | HH | 15160  | 624662  | 2.27% | 0.180% |
| 336 | 21.997 | 21.966 | 22.066 | HH | 15693  | 868218  | 3.16% | 0.250% |
| 337 | 22.109 | 22.066 | 22.220 | HH | 14261  | 1251218 | 4.55% | 0.360% |
| 338 | 22.237 | 22.220 | 22.272 | HH | 13302  | 409995  | 1.49% | 0.118% |
| 339 | 22.282 | 22.272 | 22.297 | HH | 13044  | 193141  | 0.70% | 0.056% |
| 340 | 22.309 | 22.297 | 22.338 | HH | 13070  | 323680  | 1.18% | 0.093% |
| 341 | 22.344 | 22.338 | 22.379 | HH | 12855  | 306819  | 1.12% | 0.088% |
| 342 | 22.398 | 22.379 | 22.441 | HH | 13057  | 480257  | 1.75% | 0.138% |
| 343 | 22.478 | 22.441 | 22.624 | HH | 14144  | 1439810 | 5.24% | 0.414% |
| 344 | 22.686 | 22.624 | 22.722 | HH | 12579  | 725606  | 2.64% | 0.209% |
| 345 | 22.785 | 22.722 | 22.845 | HH | 13461  | 936824  | 3.41% | 0.269% |
| 346 | 22.855 | 22.845 | 22.948 | HH | 12268  | 730149  | 2.66% | 0.210% |
| 347 | 22.991 | 22.948 | 23.035 | HH | 13747  | 653325  | 2.38% | 0.188% |
| 348 | 23.046 | 23.035 | 23.095 | HH | 11597  | 412072  | 1.50% | 0.118% |
| 349 | 23.127 | 23.095 | 23.164 | HH | 11643  | 471803  | 1.72% | 0.136% |
| 350 | 23.187 | 23.164 | 23.272 | HH | 11737  | 740705  | 2.69% | 0.213% |
| 351 | 23.282 | 23.272 | 23.307 | HH | 11047  | 230306  | 0.84% | 0.066% |

|     |        |        |        |     |                         |         |           |        |
|-----|--------|--------|--------|-----|-------------------------|---------|-----------|--------|
|     |        |        |        |     |                         | rteres  |           |        |
| 352 | 23.314 | 23.307 | 23.339 | HH  | 10958                   | 214710  | 0.78%     | 0.062% |
| 353 | 23.377 | 23.339 | 23.416 | HH  | 11045                   | 498646  | 1.81%     | 0.143% |
| 354 | 23.425 | 23.416 | 23.439 | HH  | 10781                   | 151472  | 0.55%     | 0.044% |
| 355 | 23.455 | 23.439 | 23.503 | HH  | 10870                   | 410929  | 1.49%     | 0.118% |
| 356 | 23.512 | 23.503 | 23.556 | HH  | 10672                   | 337485  | 1.23%     | 0.097% |
| 357 | 23.569 | 23.556 | 23.588 | HH  | 10595                   | 200310  | 0.73%     | 0.058% |
| 358 | 23.597 | 23.588 | 23.655 | HH  | 10518                   | 421083  | 1.53%     | 0.121% |
| 359 | 23.740 | 23.655 | 23.815 | HH  | 11420                   | 1028754 | 3.74%     | 0.296% |
| 360 | 23.825 | 23.815 | 23.838 | HH  | 10052                   | 139949  | 0.51%     | 0.040% |
| 361 | 23.865 | 23.838 | 23.878 | HH  | 10038                   | 236328  | 0.86%     | 0.068% |
| 362 | 23.893 | 23.878 | 23.912 | HH  | 10137                   | 203918  | 0.74%     | 0.059% |
| 363 | 23.942 | 23.912 | 24.037 | HH  | 10329                   | 758022  | 2.76%     | 0.218% |
| 364 | 24.050 | 24.037 | 24.108 | HH  | 9987                    | 422186  | 1.54%     | 0.121% |
| 365 | 24.172 | 24.108 | 24.185 | HH  | 9983                    | 451608  | 1.64%     | 0.130% |
| 366 | 24.264 | 24.185 | 24.311 | HH  | 10431                   | 773037  | 2.81%     | 0.222% |
| 367 | 24.323 | 24.311 | 24.332 | HH  | 10383                   | 130872  | 0.48%     | 0.038% |
| 368 | 24.359 | 24.332 | 24.481 | HH  | 10625                   | 910221  | 3.31%     | 0.262% |
| 369 | 24.550 | 24.481 | 24.712 | HH  | 10677                   | 1351184 | 4.91%     | 0.388% |
| 370 | 24.733 | 24.712 | 24.762 | HH  | 9402                    | 278779  | 1.01%     | 0.080% |
| 371 | 24.834 | 24.762 | 24.879 | HH  | 11063                   | 720652  | 2.62%     | 0.207% |
| 372 | 24.921 | 24.879 | 24.962 | HHA | 10286                   | 506951  | 1.84%     | 0.146% |
|     |        |        |        |     | Sum of corrected areas: |         | 347795491 |        |

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