

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF083118\  
 Data File : FF001985.D  
 Signal(s) : FID2B.ch  
 Acq On : 31 Aug 2018 14:37  
 Sample : J4720-04  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF083018.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         | 4.068       | 4.032        | 4.085      | BH       | -11            | -19851       | -0.01%         | -0.000%       |
| 2         | 4.102       | 4.085        | 4.110      | PH       | -865           | -17997       | -0.01%         | -0.000%       |
| 3         | 4.124       | 4.110        | 4.157      | PH       | -569           | -26465       | -0.02%         | -0.000%       |
| 4         | 4.176       | 4.157        | 4.188      | PH       | 761            | -4288        | -0.00%         | -0.000%       |
| 5         | 4.195       | 4.188        | 4.214      | PH       | 316            | -2274        | -0.00%         | -0.000%       |
| 6         | 4.231       | 4.214        | 4.238      | PH       | 541            | 1411         | 0.00%          | 0.000%        |
| 7         | 4.249       | 4.238        | 4.272      | HH       | 834            | 3893         | 0.00%          | 0.000%        |
| 8         | 4.291       | 4.272        | 4.311      | PH       | 676            | 2306         | 0.00%          | 0.000%        |
| 9         | 4.317       | 4.311        | 4.328      | PH       | 182            | -542         | -0.00%         | -0.000%       |
| 10        | 4.350       | 4.328        | 4.376      | PH       | 1708           | 10056        | 0.01%          | 0.000%        |
| 11        | 4.386       | 4.376        | 4.408      | PH       | -511           | -22148       | -0.01%         | -0.000%       |
| 12        | 4.420       | 4.408        | 4.430      | PH       | -1459          | -20702       | -0.01%         | -0.000%       |
| 13        | 4.454       | 4.430        | 4.467      | PH       | -28            | -16560       | -0.01%         | -0.000%       |
| 14        | 4.517       | 4.467        | 4.551      | PH       | 1672           | 32539        | 0.02%          | 0.000%        |
| 15        | 4.564       | 4.551        | 4.580      | PH       | 466            | 3508         | 0.00%          | 0.000%        |
| 16        | 4.591       | 4.580        | 4.631      | HH       | 198            | -8095        | -0.01%         | -0.000%       |
| 17        | 4.658       | 4.631        | 4.687      | PH       | 1273           | 13431        | 0.01%          | 0.000%        |
| 18        | 4.696       | 4.687        | 4.715      | HH       | 269            | -4239        | -0.00%         | -0.000%       |
| 19        | 4.737       | 4.715        | 4.754      | PH       | -77            | -10474       | -0.01%         | -0.000%       |
| 20        | 4.761       | 4.754        | 4.769      | PH       | -283           | -4172        | -0.00%         | -0.000%       |
| 21        | 4.800       | 4.769        | 4.848      | PH       | 889            | 18365        | 0.01%          | 0.000%        |
| 22        | 4.858       | 4.848        | 4.891      | HH       | 473            | -1533        | -0.00%         | -0.000%       |
| 23        | 4.908       | 4.891        | 4.921      | PH       | -390           | -9814        | -0.01%         | -0.000%       |
| 24        | 4.944       | 4.921        | 4.972      | PH       | 1090           | 14072        | 0.01%          | 0.000%        |
| 25        | 4.985       | 4.972        | 5.025      | PH       | 305            | -25208       | -0.02%         | -0.000%       |
| 26        | 5.040       | 5.025        | 5.063      | PH       | -1793          | -49314       | -0.03%         | -0.000%       |
| 27        | 5.098       | 5.063        | 5.114      | PH       | 917            | -35540       | -0.02%         | -0.000%       |
| 28        | 5.127       | 5.114        | 5.159      | PH       | -739           | -46252       | -0.03%         | -0.000%       |
| 29        | 5.173       | 5.159        | 5.185      | PH       | -2770          | -45123       | -0.03%         | -0.000%       |
| 30        | 5.209       | 5.185        | 5.245      | PH       | 4237           | 7930         | 0.01%          | 0.000%        |
| 31        | 5.259       | 5.245        | 5.271      | PH       | -830           | -16686       | -0.01%         | -0.000%       |
| 32        | 5.285       | 5.271        | 5.309      | PH       | -752           | -31413       | -0.02%         | -0.000%       |
| 33        | 5.332       | 5.309        | 5.352      | PH       | -855           | -39491       | -0.03%         | -0.000%       |
| 34        | 5.365       | 5.352        | 5.382      | PH       | -671           | -21167       | -0.01%         | -0.000%       |
| 35        | 5.398       | 5.382        | 5.407      | PH       | -788           | -16994       | -0.01%         | -0.000%       |
| 36        | 5.421       | 5.407        | 5.442      | PH       | -571           | -23016       | -0.01%         | -0.000%       |

|    |       |       |       |    |            |         |        |         |
|----|-------|-------|-------|----|------------|---------|--------|---------|
|    |       |       |       |    | rteres.txt |         |        |         |
| 37 | 5.466 | 5.442 | 5.504 | PH | -1212      | -63965  | -0.04% | -0.000% |
| 38 | 5.542 | 5.504 | 5.554 | PH | -1100      | -45232  | -0.03% | -0.000% |
| 39 | 5.569 | 5.554 | 5.576 | PH | -858       | -13388  | -0.01% | -0.000% |
| 40 | 5.581 | 5.576 | 5.622 | PH | -848       | -42791  | -0.03% | -0.000% |
| 41 | 5.673 | 5.622 | 5.681 | PH | -188       | -30760  | -0.02% | -0.000% |
| 42 | 5.686 | 5.681 | 5.714 | PH | -62        | -12442  | -0.01% | -0.000% |
| 43 | 5.735 | 5.714 | 5.766 | PH | -49        | -20847  | -0.01% | -0.000% |
| 44 | 5.800 | 5.766 | 5.822 | PH | -467       | -30551  | -0.02% | -0.000% |
| 45 | 5.857 | 5.822 | 5.872 | PH | -150       | -26443  | -0.02% | -0.000% |
| 46 | 5.884 | 5.872 | 5.897 | PH | -855       | -15463  | -0.01% | -0.000% |
| 47 | 5.937 | 5.897 | 5.957 | PH | 3438       | 36557   | 0.02%  | 0.000%  |
| 48 | 5.967 | 5.957 | 5.994 | HH | 2447       | 29831   | 0.02%  | 0.000%  |
| 49 | 6.000 | 5.994 | 6.030 | PH | 80         | -15076  | -0.01% | -0.000% |
| 50 | 6.073 | 6.030 | 6.086 | PH | 301        | -22747  | -0.01% | -0.000% |
| 51 | 6.095 | 6.086 | 6.113 | PH | -168       | -8773   | -0.01% | -0.000% |
| 52 | 6.160 | 6.113 | 6.179 | PH | 2750       | 9648    | 0.01%  | 0.000%  |
| 53 | 6.202 | 6.179 | 6.265 | PH | 8697       | 74603   | 0.05%  | 0.001%  |
| 54 | 6.282 | 6.265 | 6.304 | PH | -739       | -21220  | -0.01% | -0.000% |
| 55 | 6.309 | 6.304 | 6.330 | PH | -899       | -18783  | -0.01% | -0.000% |
| 56 | 6.352 | 6.330 | 6.358 | PH | -301       | -16860  | -0.01% | -0.000% |
| 57 | 6.361 | 6.358 | 6.384 | PH | -919       | -17754  | -0.01% | -0.000% |
| 58 | 6.444 | 6.384 | 6.460 | PH | 1988       | 24000   | 0.02%  | 0.000%  |
| 59 | 6.475 | 6.460 | 6.486 | HH | 2619       | 27353   | 0.02%  | 0.000%  |
| 60 | 6.505 | 6.486 | 6.525 | HH | 7565       | 114730  | 0.07%  | 0.001%  |
| 61 | 6.545 | 6.525 | 6.556 | HH | 7967       | 112643  | 0.07%  | 0.001%  |
| 62 | 6.568 | 6.556 | 6.593 | HH | 10483      | 129346  | 0.08%  | 0.001%  |
| 63 | 6.619 | 6.593 | 6.634 | HH | 2626       | 49811   | 0.03%  | 0.000%  |
| 64 | 6.677 | 6.634 | 6.685 | HH | 19779      | 355751  | 0.23%  | 0.003%  |
| 65 | 6.723 | 6.685 | 6.741 | HH | 25685      | 699282  | 0.45%  | 0.005%  |
| 66 | 6.765 | 6.741 | 6.805 | HH | 20496      | 579994  | 0.37%  | 0.004%  |
| 67 | 6.817 | 6.805 | 6.846 | HH | 11428      | 255484  | 0.16%  | 0.002%  |
| 68 | 6.874 | 6.846 | 6.921 | HH | 28411      | 783179  | 0.50%  | 0.006%  |
| 69 | 6.932 | 6.921 | 6.947 | HH | 13563      | 207900  | 0.13%  | 0.002%  |
| 70 | 6.957 | 6.947 | 6.966 | HH | 13244      | 146771  | 0.09%  | 0.001%  |
| 71 | 6.975 | 6.966 | 6.984 | HH | 13116      | 134713  | 0.09%  | 0.001%  |
| 72 | 7.014 | 6.984 | 7.022 | HH | 22518      | 423974  | 0.27%  | 0.003%  |
| 73 | 7.035 | 7.022 | 7.065 | HH | 28706      | 544996  | 0.35%  | 0.004%  |
| 74 | 7.084 | 7.065 | 7.097 | HH | 21186      | 326722  | 0.21%  | 0.002%  |
| 75 | 7.110 | 7.097 | 7.135 | HH | 18217      | 390597  | 0.25%  | 0.003%  |
| 76 | 7.144 | 7.135 | 7.178 | HH | 16018      | 385029  | 0.25%  | 0.003%  |
| 77 | 7.232 | 7.178 | 7.266 | HH | 23650      | 1049051 | 0.67%  | 0.008%  |
| 78 | 7.282 | 7.266 | 7.294 | HH | 31945      | 458867  | 0.29%  | 0.003%  |
| 79 | 7.309 | 7.294 | 7.326 | HH | 37113      | 572543  | 0.37%  | 0.004%  |
| 80 | 7.348 | 7.326 | 7.356 | HH | 35659      | 545834  | 0.35%  | 0.004%  |
| 81 | 7.374 | 7.356 | 7.390 | HH | 53945      | 867612  | 0.56%  | 0.006%  |
| 82 | 7.404 | 7.390 | 7.415 | HH | 44476      | 624598  | 0.40%  | 0.005%  |
| 83 | 7.428 | 7.415 | 7.439 | HH | 45758      | 604820  | 0.39%  | 0.005%  |
| 84 | 7.449 | 7.439 | 7.470 | HH | 44860      | 705127  | 0.45%  | 0.005%  |
| 85 | 7.505 | 7.470 | 7.521 | HH | 51406      | 1247776 | 0.80%  | 0.009%  |
| 86 | 7.538 | 7.521 | 7.543 | HH | 52990      | 655344  | 0.42%  | 0.005%  |
| 87 | 7.576 | 7.543 | 7.595 | HH | 116723     | 2605888 | 1.67%  | 0.019%  |
| 88 | 7.602 | 7.595 | 7.620 | HH | 72292      | 923253  | 0.59%  | 0.007%  |
| 89 | 7.651 | 7.620 | 7.660 | HH | 63109      | 1376550 | 0.88%  | 0.010%  |

| rteres.txt |       |       |       |    |         |          |        |        |
|------------|-------|-------|-------|----|---------|----------|--------|--------|
| 90         | 7.677 | 7.660 | 7.692 | HH | 80836   | 1339038  | 0.86%  | 0.010% |
| 91         | 7.713 | 7.692 | 7.733 | HH | 86835   | 1894718  | 1.21%  | 0.014% |
| 92         | 7.759 | 7.733 | 7.790 | HH | 178169  | 3935491  | 2.52%  | 0.029% |
| 93         | 7.818 | 7.790 | 7.827 | HH | 126538  | 2432761  | 1.56%  | 0.018% |
| 94         | 7.836 | 7.827 | 7.877 | HH | 127949  | 3223008  | 2.07%  | 0.024% |
| 95         | 7.901 | 7.877 | 7.906 | HH | 121682  | 1861725  | 1.19%  | 0.014% |
| 96         | 7.925 | 7.906 | 7.972 | HH | 207766  | 5958683  | 3.82%  | 0.044% |
| 97         | 7.992 | 7.972 | 8.006 | HH | 196911  | 3311483  | 2.12%  | 0.025% |
| 98         | 8.014 | 8.006 | 8.035 | HH | 162752  | 2618036  | 1.68%  | 0.020% |
| 99         | 8.055 | 8.035 | 8.072 | HH | 156731  | 3312129  | 2.12%  | 0.025% |
| 100        | 8.095 | 8.072 | 8.135 | HH | 247239  | 7375001  | 4.73%  | 0.055% |
| 101        | 8.171 | 8.135 | 8.176 | HH | 179583  | 4138426  | 2.65%  | 0.031% |
| 102        | 8.210 | 8.176 | 8.227 | HH | 302747  | 7143434  | 4.58%  | 0.053% |
| 103        | 8.232 | 8.227 | 8.248 | HH | 236987  | 2966996  | 1.90%  | 0.022% |
| 104        | 8.262 | 8.248 | 8.272 | HH | 247328  | 3420361  | 2.19%  | 0.025% |
| 105        | 8.292 | 8.272 | 8.310 | HH | 286771  | 6111169  | 3.92%  | 0.046% |
| 106        | 8.327 | 8.310 | 8.336 | HH | 305678  | 4668302  | 2.99%  | 0.035% |
| 107        | 8.355 | 8.336 | 8.382 | HH | 411702  | 9239957  | 5.92%  | 0.069% |
| 108        | 8.419 | 8.382 | 8.434 | HH | 319141  | 8945091  | 5.73%  | 0.067% |
| 109        | 8.460 | 8.434 | 8.468 | HH | 347751  | 6715191  | 4.30%  | 0.050% |
| 110        | 8.488 | 8.468 | 8.504 | HH | 370392  | 7650621  | 4.90%  | 0.057% |
| 111        | 8.520 | 8.504 | 8.535 | HH | 406918  | 7043954  | 4.51%  | 0.052% |
| 112        | 8.549 | 8.535 | 8.559 | HH | 404615  | 5490795  | 3.52%  | 0.041% |
| 113        | 8.583 | 8.559 | 8.602 | HH | 504471  | 11667542 | 7.48%  | 0.087% |
| 114        | 8.614 | 8.602 | 8.629 | HH | 454568  | 7072923  | 4.53%  | 0.053% |
| 115        | 8.640 | 8.629 | 8.659 | HH | 420670  | 7373993  | 4.73%  | 0.055% |
| 116        | 8.669 | 8.659 | 8.676 | HH | 411486  | 4182588  | 2.68%  | 0.031% |
| 117        | 8.681 | 8.676 | 8.686 | HH | 406313  | 2446106  | 1.57%  | 0.018% |
| 118        | 8.711 | 8.686 | 8.730 | HH | 482507  | 12059606 | 7.73%  | 0.090% |
| 119        | 8.758 | 8.730 | 8.773 | HH | 524633  | 12497741 | 8.01%  | 0.093% |
| 120        | 8.790 | 8.773 | 8.809 | HH | 524893  | 11196850 | 7.18%  | 0.083% |
| 121        | 8.836 | 8.809 | 8.857 | HH | 600787  | 16208647 | 10.39% | 0.121% |
| 122        | 8.873 | 8.857 | 8.909 | HH | 643690  | 19055142 | 12.21% | 0.142% |
| 123        | 8.964 | 8.909 | 8.980 | HH | 756322  | 28527853 | 18.28% | 0.213% |
| 124        | 9.006 | 8.980 | 9.023 | HH | 771436  | 18993385 | 12.17% | 0.142% |
| 125        | 9.053 | 9.023 | 9.079 | HH | 953344  | 27499510 | 17.62% | 0.205% |
| 126        | 9.094 | 9.079 | 9.106 | HH | 801781  | 12376704 | 7.93%  | 0.092% |
| 127        | 9.128 | 9.106 | 9.151 | HH | 939587  | 23475765 | 15.05% | 0.175% |
| 128        | 9.163 | 9.151 | 9.173 | HH | 842732  | 11119018 | 7.13%  | 0.083% |
| 129        | 9.202 | 9.173 | 9.217 | HH | 917431  | 23593417 | 15.12% | 0.176% |
| 130        | 9.239 | 9.217 | 9.252 | HH | 952123  | 19117667 | 12.25% | 0.142% |
| 131        | 9.265 | 9.252 | 9.284 | HH | 966996  | 18253295 | 11.70% | 0.136% |
| 132        | 9.316 | 9.284 | 9.335 | HH | 1085527 | 31533487 | 20.21% | 0.235% |
| 133        | 9.341 | 9.335 | 9.355 | HH | 1034158 | 12019812 | 7.70%  | 0.090% |
| 134        | 9.378 | 9.355 | 9.384 | HH | 1067100 | 17911795 | 11.48% | 0.133% |
| 135        | 9.404 | 9.384 | 9.419 | HH | 1133793 | 22715960 | 14.56% | 0.169% |
| 136        | 9.441 | 9.419 | 9.452 | HH | 1131700 | 22030301 | 14.12% | 0.164% |
| 137        | 9.487 | 9.452 | 9.494 | HH | 1172946 | 29348040 | 18.81% | 0.219% |
| 138        | 9.558 | 9.494 | 9.577 | HH | 1389895 | 63575357 | 40.75% | 0.474% |
| 139        | 9.594 | 9.577 | 9.606 | HH | 1423979 | 23919168 | 15.33% | 0.178% |
| 140        | 9.635 | 9.606 | 9.683 | HH | 1573873 | 69435735 | 44.50% | 0.517% |
| 141        | 9.711 | 9.683 | 9.736 | HH | 1607420 | 48788101 | 31.27% | 0.364% |

| rteres.txt |        |        |        |    |         |           |        |        |
|------------|--------|--------|--------|----|---------|-----------|--------|--------|
| 142        | 9.758  | 9.736  | 9.762  | HH | 1608779 | 25190013  | 16.14% | 0.188% |
| 143        | 9.780  | 9.762  | 9.789  | HH | 1634774 | 25853962  | 16.57% | 0.193% |
| 144        | 9.815  | 9.789  | 9.832  | HH | 1737716 | 42929336  | 27.51% | 0.320% |
| 145        | 9.850  | 9.832  | 9.855  | HH | 1782340 | 24283814  | 15.56% | 0.181% |
| 146        | 9.883  | 9.855  | 9.901  | HH | 1968897 | 51887907  | 33.26% | 0.387% |
| 147        | 9.910  | 9.901  | 9.915  | HH | 1963795 | 16277883  | 10.43% | 0.121% |
| 148        | 9.932  | 9.915  | 9.944  | HH | 2014631 | 35601235  | 22.82% | 0.265% |
| 149        | 9.951  | 9.944  | 9.959  | HH | 2012145 | 17542077  | 11.24% | 0.131% |
| 150        | 9.966  | 9.959  | 9.983  | HH | 2006440 | 27970289  | 17.93% | 0.208% |
| 151        | 10.017 | 9.983  | 10.036 | HH | 2109523 | 65771909  | 42.15% | 0.490% |
| 152        | 10.063 | 10.036 | 10.070 | HH | 2215635 | 43607614  | 27.95% | 0.325% |
| 153        | 10.094 | 10.070 | 10.100 | HH | 2269052 | 40720540  | 26.10% | 0.303% |
| 154        | 10.119 | 10.100 | 10.134 | HH | 2342518 | 46759303  | 29.97% | 0.348% |
| 155        | 10.143 | 10.134 | 10.153 | HH | 2261531 | 24831171  | 15.91% | 0.185% |
| 156        | 10.189 | 10.153 | 10.197 | HH | 2388602 | 62787079  | 40.24% | 0.468% |
| 157        | 10.205 | 10.197 | 10.218 | HH | 2420928 | 29948993  | 19.19% | 0.223% |
| 158        | 10.249 | 10.218 | 10.259 | HH | 2539352 | 59871158  | 38.37% | 0.446% |
| 159        | 10.284 | 10.259 | 10.306 | HH | 2692048 | 73323877  | 46.99% | 0.546% |
| 160        | 10.315 | 10.306 | 10.324 | HH | 2657686 | 27762313  | 17.79% | 0.207% |
| 161        | 10.339 | 10.324 | 10.344 | HH | 2710237 | 32006797  | 20.51% | 0.239% |
| 162        | 10.349 | 10.344 | 10.356 | HH | 2705790 | 19580629  | 12.55% | 0.146% |
| 163        | 10.380 | 10.356 | 10.386 | HH | 2806608 | 49880403  | 31.97% | 0.372% |
| 164        | 10.398 | 10.386 | 10.413 | HH | 2872892 | 45954943  | 29.45% | 0.342% |
| 165        | 10.418 | 10.413 | 10.433 | HH | 2816282 | 34249078  | 21.95% | 0.255% |
| 166        | 10.458 | 10.433 | 10.464 | HH | 2882108 | 51273416  | 32.86% | 0.382% |
| 167        | 10.484 | 10.464 | 10.501 | HH | 3117818 | 67885801  | 43.51% | 0.506% |
| 168        | 10.505 | 10.501 | 10.516 | HH | 2984778 | 26889444  | 17.23% | 0.200% |
| 169        | 10.541 | 10.516 | 10.573 | HH | 3343877 | 106731582 | 68.41% | 0.795% |
| 170        | 10.587 | 10.573 | 10.597 | HH | 3211541 | 46717231  | 29.94% | 0.348% |
| 171        | 10.605 | 10.597 | 10.609 | HH | 3183597 | 21422026  | 13.73% | 0.160% |
| 172        | 10.634 | 10.609 | 10.639 | HH | 3301683 | 58184478  | 37.29% | 0.434% |
| 173        | 10.645 | 10.639 | 10.659 | HH | 3311531 | 39634420  | 25.40% | 0.295% |
| 174        | 10.669 | 10.659 | 10.687 | HH | 3289435 | 54778174  | 35.11% | 0.408% |
| 175        | 10.708 | 10.687 | 10.727 | HH | 3343141 | 79392223  | 50.88% | 0.592% |
| 176        | 10.755 | 10.727 | 10.762 | HH | 3410704 | 68800934  | 44.10% | 0.513% |
| 177        | 10.776 | 10.762 | 10.791 | HH | 3437346 | 59355190  | 38.04% | 0.442% |
| 178        | 10.820 | 10.791 | 10.842 | HH | 3620983 | 110147125 | 70.59% | 0.821% |
| 179        | 10.877 | 10.842 | 10.886 | HH | 3719195 | 94865694  | 60.80% | 0.707% |
| 180        | 10.902 | 10.886 | 10.924 | HH | 3677302 | 83662952  | 53.62% | 0.623% |
| 181        | 10.941 | 10.924 | 10.949 | HH | 3724574 | 55279970  | 35.43% | 0.412% |
| 182        | 10.953 | 10.949 | 10.956 | HH | 3676172 | 16039169  | 10.28% | 0.120% |
| 183        | 10.960 | 10.956 | 10.962 | HH | 3668798 | 11743439  | 7.53%  | 0.088% |
| 184        | 10.993 | 10.962 | 11.012 | HH | 3965358 | 116462165 | 74.64% | 0.868% |
| 185        | 11.024 | 11.012 | 11.037 | HH | 3843053 | 56013522  | 35.90% | 0.417% |
| 186        | 11.046 | 11.037 | 11.057 | HH | 3871763 | 47621458  | 30.52% | 0.355% |
| 187        | 11.062 | 11.057 | 11.068 | HH | 3854638 | 23860392  | 15.29% | 0.178% |
| 188        | 11.083 | 11.068 | 11.087 | HH | 3904321 | 45446985  | 29.13% | 0.339% |
| 189        | 11.108 | 11.087 | 11.115 | HH | 3998862 | 64335177  | 41.23% | 0.479% |
| 190        | 11.127 | 11.115 | 11.140 | HH | 4002924 | 60289138  | 38.64% | 0.449% |
| 191        | 11.173 | 11.140 | 11.187 | HH | 4078348 | 112401083 | 72.04% | 0.838% |
| 192        | 11.201 | 11.187 | 11.207 | HH | 4137644 | 51361515  | 32.92% | 0.383% |
| 193        | 11.223 | 11.207 | 11.229 | HH | 4241943 | 52863378  | 33.88% | 0.394% |
| 194        | 11.246 | 11.229 | 11.279 | HH | 4286471 | 127052363 | 81.43% | 0.947% |

|     |        |        |        |    | rteres.txt |           |        |        |
|-----|--------|--------|--------|----|------------|-----------|--------|--------|
| 195 | 11.285 | 11.279 | 11.287 | HH | 4177867    | 20022268  | 12.83% | 0.149% |
| 196 | 11.307 | 11.287 | 11.313 | HH | 4423768    | 68446040  | 43.87% | 0.510% |
| 197 | 11.319 | 11.313 | 11.326 | HH | 4415527    | 34820743  | 22.32% | 0.259% |
| 198 | 11.335 | 11.326 | 11.339 | HH | 4473110    | 32876960  | 21.07% | 0.245% |
| 199 | 11.348 | 11.339 | 11.354 | HH | 4543365    | 41344614  | 26.50% | 0.308% |
| 200 | 11.359 | 11.354 | 11.369 | HH | 4495599    | 38847269  | 24.90% | 0.290% |
| 201 | 11.388 | 11.369 | 11.395 | HH | 4501092    | 71371787  | 45.74% | 0.532% |
| 202 | 11.418 | 11.395 | 11.425 | HH | 4561610    | 80832980  | 51.81% | 0.602% |
| 203 | 11.433 | 11.425 | 11.446 | HH | 4559891    | 56513094  | 36.22% | 0.421% |
| 204 | 11.461 | 11.446 | 11.471 | HH | 4615962    | 69165530  | 44.33% | 0.515% |
| 205 | 11.476 | 11.471 | 11.484 | HH | 4615405    | 35267081  | 22.60% | 0.263% |
| 206 | 11.495 | 11.484 | 11.526 | HH | 4627917    | 113420853 | 72.69% | 0.845% |
| 207 | 11.554 | 11.526 | 11.565 | HH | 4845659    | 110168671 | 70.61% | 0.821% |
| 208 | 11.595 | 11.565 | 11.608 | HH | 4890609    | 125426561 | 80.39% | 0.935% |
| 209 | 11.612 | 11.608 | 11.624 | HH | 4839863    | 45929753  | 29.44% | 0.342% |
| 210 | 11.629 | 11.624 | 11.642 | HH | 4812521    | 51285757  | 32.87% | 0.382% |
| 211 | 11.647 | 11.642 | 11.662 | HH | 4748058    | 57233707  | 36.68% | 0.427% |
| 212 | 11.672 | 11.662 | 11.684 | HH | 4746872    | 61217432  | 39.24% | 0.456% |
| 213 | 11.699 | 11.684 | 11.704 | HH | 4703746    | 57811614  | 37.05% | 0.431% |
| 214 | 11.727 | 11.704 | 11.732 | HH | 4894970    | 79209843  | 50.77% | 0.590% |
| 215 | 11.745 | 11.732 | 11.753 | HH | 5009396    | 62414557  | 40.00% | 0.465% |
| 216 | 11.765 | 11.753 | 11.771 | HH | 5016048    | 52534060  | 33.67% | 0.392% |
| 217 | 11.779 | 11.771 | 11.799 | HH | 5028227    | 84583142  | 54.21% | 0.630% |
| 218 | 11.806 | 11.799 | 11.831 | HH | 4874014    | 91582368  | 58.70% | 0.683% |
| 219 | 11.844 | 11.831 | 11.850 | HH | 4865652    | 56385398  | 36.14% | 0.420% |
| 220 | 11.865 | 11.850 | 11.876 | HH | 5094531    | 77223658  | 49.49% | 0.575% |
| 221 | 11.891 | 11.876 | 11.897 | HH | 5106935    | 64546927  | 41.37% | 0.481% |
| 222 | 11.904 | 11.897 | 11.911 | HH | 5134240    | 43219722  | 27.70% | 0.322% |
| 223 | 11.916 | 11.911 | 11.919 | HH | 5094383    | 23859360  | 15.29% | 0.178% |
| 224 | 11.930 | 11.919 | 11.939 | HH | 5205774    | 61282296  | 39.28% | 0.457% |
| 225 | 11.944 | 11.939 | 11.949 | HH | 5176604    | 29698880  | 19.03% | 0.221% |
| 226 | 11.961 | 11.949 | 11.986 | HH | 5269431    | 116338588 | 74.56% | 0.867% |
| 227 | 11.997 | 11.986 | 12.002 | HH | 5143394    | 48728495  | 31.23% | 0.363% |
| 228 | 12.029 | 12.002 | 12.047 | HH | 5324112    | 142324206 | 91.22% | 1.061% |
| 229 | 12.053 | 12.047 | 12.081 | HH | 5210448    | 101319708 | 64.94% | 0.755% |
| 230 | 12.099 | 12.081 | 12.107 | HH | 5027677    | 78477662  | 50.30% | 0.585% |
| 231 | 12.118 | 12.107 | 12.123 | HH | 5014768    | 45845394  | 29.38% | 0.342% |
| 232 | 12.127 | 12.123 | 12.152 | HH | 5015816    | 87821658  | 56.29% | 0.654% |
| 233 | 12.160 | 12.152 | 12.167 | HH | 4883267    | 43594618  | 27.94% | 0.325% |
| 234 | 12.171 | 12.167 | 12.179 | HH | 4881332    | 33760886  | 21.64% | 0.252% |
| 235 | 12.197 | 12.179 | 12.202 | HH | 4856587    | 65426337  | 41.93% | 0.488% |
| 236 | 12.212 | 12.202 | 12.221 | HH | 4877526    | 55352908  | 35.48% | 0.413% |
| 237 | 12.228 | 12.221 | 12.236 | HH | 4901699    | 44376605  | 28.44% | 0.331% |
| 238 | 12.243 | 12.236 | 12.249 | HH | 4911283    | 38083064  | 24.41% | 0.284% |
| 239 | 12.253 | 12.249 | 12.264 | HH | 4875862    | 42442547  | 27.20% | 0.316% |
| 240 | 12.282 | 12.264 | 12.298 | HH | 4942898    | 99766343  | 63.94% | 0.743% |
| 241 | 12.305 | 12.298 | 12.332 | HH | 4933441    | 101421016 | 65.00% | 0.756% |
| 242 | 12.369 | 12.332 | 12.375 | HH | 5102158    | 124933759 | 80.07% | 0.931% |
| 243 | 12.391 | 12.375 | 12.404 | HH | 5152447    | 89414827  | 57.31% | 0.666% |
| 244 | 12.413 | 12.404 | 12.452 | HH | 4988596    | 139002548 | 89.09% | 1.036% |
| 245 | 12.460 | 12.452 | 12.472 | HH | 4771615    | 56350409  | 36.12% | 0.420% |
| 246 | 12.481 | 12.472 | 12.492 | HH | 4790305    | 59055794  | 37.85% | 0.440% |

| rteres.txt |        |        |        |    |         |           |         |        |
|------------|--------|--------|--------|----|---------|-----------|---------|--------|
| 247        | 12.508 | 12.492 | 12.515 | HH | 4790405 | 65588344  | 42.04%  | 0.489% |
| 248        | 12.535 | 12.515 | 12.569 | HH | 4791705 | 152342830 | 97.64%  | 1.135% |
| 249        | 12.574 | 12.569 | 12.582 | HH | 4741569 | 37582030  | 24.09%  | 0.280% |
| 250        | 12.587 | 12.582 | 12.594 | HH | 4741089 | 32939962  | 21.11%  | 0.245% |
| 251        | 12.600 | 12.594 | 12.622 | HH | 4715601 | 77456367  | 49.64%  | 0.577% |
| 252        | 12.631 | 12.622 | 12.639 | HH | 4666969 | 48003007  | 30.77%  | 0.358% |
| 253        | 12.646 | 12.639 | 12.655 | HH | 4698581 | 45490571  | 29.16%  | 0.339% |
| 254        | 12.665 | 12.655 | 12.692 | HH | 4831543 | 103706003 | 66.47%  | 0.773% |
| 255        | 12.699 | 12.692 | 12.714 | HH | 4660992 | 61244099  | 39.25%  | 0.456% |
| 256        | 12.723 | 12.714 | 12.729 | HH | 4616335 | 41163633  | 26.38%  | 0.307% |
| 257        | 12.734 | 12.729 | 12.756 | HH | 4583597 | 71993160  | 46.14%  | 0.537% |
| 258        | 12.765 | 12.756 | 12.769 | HH | 4540051 | 36206588  | 23.21%  | 0.270% |
| 259        | 12.806 | 12.769 | 12.816 | HH | 4697201 | 129511769 | 83.01%  | 0.965% |
| 260        | 12.822 | 12.816 | 12.828 | HH | 4613917 | 32569634  | 20.87%  | 0.243% |
| 261        | 12.840 | 12.828 | 12.847 | HH | 4645976 | 53686043  | 34.41%  | 0.400% |
| 262        | 12.854 | 12.847 | 12.864 | HH | 4641564 | 46820146  | 30.01%  | 0.349% |
| 263        | 12.881 | 12.864 | 12.892 | HH | 4602254 | 76054416  | 48.74%  | 0.567% |
| 264        | 12.897 | 12.892 | 12.908 | HH | 4563444 | 44227015  | 28.35%  | 0.330% |
| 265        | 12.933 | 12.908 | 12.944 | HH | 4726218 | 100839536 | 64.63%  | 0.751% |
| 266        | 12.952 | 12.944 | 13.000 | HH | 4773949 | 153188012 | 98.18%  | 1.142% |
| 267        | 13.007 | 13.000 | 13.017 | HH | 4511080 | 46266952  | 29.65%  | 0.345% |
| 268        | 13.028 | 13.017 | 13.047 | HH | 4544165 | 81292593  | 52.10%  | 0.606% |
| 269        | 13.051 | 13.047 | 13.061 | HH | 4550717 | 36777724  | 23.57%  | 0.274% |
| 270        | 13.066 | 13.061 | 13.083 | HH | 4494649 | 59855960  | 38.36%  | 0.446% |
| 271        | 13.091 | 13.083 | 13.101 | HH | 4497648 | 45929570  | 29.44%  | 0.342% |
| 272        | 13.110 | 13.101 | 13.119 | HH | 4523973 | 49514927  | 31.73%  | 0.369% |
| 273        | 13.132 | 13.119 | 13.141 | HH | 4497478 | 59045893  | 37.84%  | 0.440% |
| 274        | 13.163 | 13.141 | 13.199 | HH | 4560189 | 156026953 | 100.00% | 1.163% |
| 275        | 13.202 | 13.199 | 13.221 | HH | 4439846 | 56839592  | 36.43%  | 0.424% |
| 276        | 13.233 | 13.221 | 13.240 | HH | 4399508 | 48886408  | 31.33%  | 0.364% |
| 277        | 13.260 | 13.240 | 13.278 | HH | 4397714 | 100687446 | 64.53%  | 0.750% |
| 278        | 13.302 | 13.278 | 13.322 | HH | 4433292 | 113523339 | 72.76%  | 0.846% |
| 279        | 13.331 | 13.322 | 13.367 | HH | 4344159 | 114715215 | 73.52%  | 0.855% |
| 280        | 13.375 | 13.367 | 13.393 | HH | 4324030 | 68448764  | 43.87%  | 0.510% |
| 281        | 13.407 | 13.393 | 13.412 | HH | 4300582 | 47464391  | 30.42%  | 0.354% |
| 282        | 13.420 | 13.412 | 13.439 | HH | 4347835 | 69940572  | 44.83%  | 0.521% |
| 283        | 13.446 | 13.439 | 13.451 | HH | 4248646 | 29528549  | 18.93%  | 0.220% |
| 284        | 13.460 | 13.451 | 13.472 | HH | 4278469 | 55391981  | 35.50%  | 0.413% |
| 285        | 13.478 | 13.472 | 13.487 | HH | 4252781 | 37680022  | 24.15%  | 0.281% |
| 286        | 13.503 | 13.487 | 13.541 | HH | 4262869 | 133721588 | 85.70%  | 0.997% |
| 287        | 13.548 | 13.541 | 13.565 | HH | 4104828 | 58443283  | 37.46%  | 0.436% |
| 288        | 13.584 | 13.565 | 13.599 | HH | 4128939 | 83427709  | 53.47%  | 0.622% |
| 289        | 13.612 | 13.599 | 13.630 | HH | 4085392 | 76615135  | 49.10%  | 0.571% |
| 290        | 13.635 | 13.630 | 13.646 | HH | 4021455 | 37521079  | 24.05%  | 0.280% |
| 291        | 13.671 | 13.646 | 13.706 | HH | 4134470 | 144580485 | 92.66%  | 1.077% |
| 292        | 13.710 | 13.706 | 13.720 | HH | 3974765 | 32901220  | 21.09%  | 0.245% |
| 293        | 13.730 | 13.720 | 13.736 | HH | 3921302 | 37415232  | 23.98%  | 0.279% |
| 294        | 13.742 | 13.736 | 13.764 | HH | 3917417 | 65642371  | 42.07%  | 0.489% |
| 295        | 13.771 | 13.764 | 13.781 | HH | 3855716 | 37892593  | 24.29%  | 0.282% |
| 296        | 13.787 | 13.781 | 13.792 | HH | 3849486 | 25808881  | 16.54%  | 0.192% |
| 297        | 13.799 | 13.792 | 13.820 | HH | 3845619 | 64710149  | 41.47%  | 0.482% |
| 298        | 13.829 | 13.820 | 13.851 | HH | 3792206 | 67874195  | 43.50%  | 0.506% |
| 299        | 13.857 | 13.851 | 13.866 | HH | 3749571 | 35664176  | 22.86%  | 0.266% |

|     |        |        |        |    | rteres.txt |           |        |        |
|-----|--------|--------|--------|----|------------|-----------|--------|--------|
| 300 | 13.880 | 13.866 | 13.887 | HH | 3716850    | 46483566  | 29.79% | 0.346% |
| 301 | 13.912 | 13.887 | 13.944 | HH | 3710792    | 124358523 | 79.70% | 0.927% |
| 302 | 13.955 | 13.944 | 13.977 | HH | 3693401    | 73331785  | 47.00% | 0.546% |
| 303 | 13.982 | 13.977 | 13.995 | HH | 3614627    | 37046540  | 23.74% | 0.276% |
| 304 | 13.998 | 13.995 | 14.003 | HH | 3495445    | 17159077  | 11.00% | 0.128% |
| 305 | 14.007 | 14.003 | 14.013 | HH | 3498390    | 21853023  | 14.01% | 0.163% |
| 306 | 14.025 | 14.013 | 14.044 | HH | 3546226    | 65024120  | 41.67% | 0.485% |
| 307 | 14.049 | 14.044 | 14.058 | HH | 3488150    | 28644953  | 18.36% | 0.213% |
| 308 | 14.068 | 14.058 | 14.074 | HH | 3429821    | 33371561  | 21.39% | 0.249% |
| 309 | 14.080 | 14.074 | 14.084 | HH | 3446127    | 19748178  | 12.66% | 0.147% |
| 310 | 14.092 | 14.084 | 14.102 | HH | 3447506    | 37675970  | 24.15% | 0.281% |
| 311 | 14.108 | 14.102 | 14.114 | HH | 3399636    | 24007223  | 15.39% | 0.179% |
| 312 | 14.121 | 14.114 | 14.173 | HH | 3423704    | 117685380 | 75.43% | 0.877% |
| 313 | 14.181 | 14.173 | 14.189 | HH | 3253501    | 30610256  | 19.62% | 0.228% |
| 314 | 14.192 | 14.189 | 14.208 | HH | 3225920    | 36800325  | 23.59% | 0.274% |
| 315 | 14.214 | 14.208 | 14.230 | HH | 3175604    | 40305802  | 25.83% | 0.300% |
| 316 | 14.240 | 14.230 | 14.245 | HH | 3215141    | 30038996  | 19.25% | 0.224% |
| 317 | 14.255 | 14.245 | 14.264 | HH | 3216818    | 35870781  | 22.99% | 0.267% |
| 318 | 14.269 | 14.264 | 14.279 | HH | 3210983    | 29071570  | 18.63% | 0.217% |
| 319 | 14.286 | 14.279 | 14.321 | HH | 3160223    | 76106174  | 48.78% | 0.567% |
| 320 | 14.342 | 14.321 | 14.375 | HH | 3140019    | 99620253  | 63.85% | 0.742% |
| 321 | 14.382 | 14.375 | 14.391 | HH | 2942665    | 26985937  | 17.30% | 0.201% |
| 322 | 14.397 | 14.391 | 14.413 | HH | 2944575    | 38487216  | 24.67% | 0.287% |
| 323 | 14.421 | 14.413 | 14.450 | HH | 2889781    | 63834054  | 40.91% | 0.476% |
| 324 | 14.465 | 14.450 | 14.478 | HH | 2804263    | 45921852  | 29.43% | 0.342% |
| 325 | 14.489 | 14.478 | 14.504 | HH | 2713798    | 41627380  | 26.68% | 0.310% |
| 326 | 14.524 | 14.504 | 14.541 | HH | 2719217    | 58937997  | 37.77% | 0.439% |
| 327 | 14.550 | 14.541 | 14.556 | HH | 2670257    | 24818768  | 15.91% | 0.185% |
| 328 | 14.569 | 14.556 | 14.582 | HH | 2685744    | 41510226  | 26.60% | 0.309% |
| 329 | 14.587 | 14.582 | 14.636 | HH | 2605036    | 80964530  | 51.89% | 0.603% |
| 330 | 14.641 | 14.636 | 14.652 | HH | 2430406    | 23022705  | 14.76% | 0.172% |
| 331 | 14.659 | 14.652 | 14.667 | HH | 2431477    | 21176740  | 13.57% | 0.158% |
| 332 | 14.675 | 14.667 | 14.713 | HH | 2442981    | 66638381  | 42.71% | 0.497% |
| 333 | 14.719 | 14.713 | 14.733 | HH | 2308326    | 26752552  | 17.15% | 0.199% |
| 334 | 14.740 | 14.733 | 14.842 | HH | 2275951    | 143462827 | 91.95% | 1.069% |
| 335 | 14.848 | 14.842 | 14.855 | HH | 2101551    | 15592990  | 9.99%  | 0.116% |
| 336 | 14.860 | 14.855 | 14.905 | HH | 2081925    | 61336917  | 39.31% | 0.457% |
| 337 | 14.921 | 14.905 | 14.972 | HH | 2007186    | 78072381  | 50.04% | 0.582% |
| 338 | 14.976 | 14.972 | 14.981 | HH | 1900471    | 11179850  | 7.17%  | 0.083% |
| 339 | 14.988 | 14.981 | 15.002 | HH | 1895435    | 23186035  | 14.86% | 0.173% |
| 340 | 15.009 | 15.002 | 15.025 | HH | 1873042    | 25217893  | 16.16% | 0.188% |
| 341 | 15.031 | 15.025 | 15.056 | HH | 1866980    | 33991909  | 21.79% | 0.253% |
| 342 | 15.066 | 15.056 | 15.098 | HH | 1816627    | 44716722  | 28.66% | 0.333% |
| 343 | 15.105 | 15.098 | 15.147 | HH | 1707487    | 49124270  | 31.48% | 0.366% |
| 344 | 15.151 | 15.147 | 15.156 | HH | 1605408    | 7913513   | 5.07%  | 0.059% |
| 345 | 15.163 | 15.156 | 15.171 | HH | 1615681    | 14602374  | 9.36%  | 0.109% |
| 346 | 15.184 | 15.171 | 15.225 | HH | 1602504    | 50678877  | 32.48% | 0.378% |
| 347 | 15.229 | 15.225 | 15.262 | HH | 1534979    | 33541979  | 21.50% | 0.250% |
| 348 | 15.267 | 15.262 | 15.307 | HH | 1491743    | 39908126  | 25.58% | 0.297% |
| 349 | 15.325 | 15.307 | 15.369 | HH | 1427683    | 51461699  | 32.98% | 0.384% |
| 350 | 15.375 | 15.369 | 15.396 | HH | 1327043    | 21621098  | 13.86% | 0.161% |
| 351 | 15.401 | 15.396 | 15.426 | HH | 1319022    | 23109932  | 14.81% | 0.172% |

rteres.txt

|                         |        |        |        |     |             |          |        |        |
|-------------------------|--------|--------|--------|-----|-------------|----------|--------|--------|
| 352                     | 15.432 | 15.426 | 15.450 | HH  | 1265749     | 17316296 | 11.10% | 0.129% |
| 353                     | 15.460 | 15.450 | 15.485 | HH  | 1233932     | 25495651 | 16.34% | 0.190% |
| 354                     | 15.492 | 15.485 | 15.523 | HH  | 1189127     | 27345929 | 17.53% | 0.204% |
| 355                     | 15.530 | 15.523 | 15.539 | HH  | 1153185     | 10549342 | 6.76%  | 0.079% |
| 356                     | 15.552 | 15.539 | 15.586 | HH  | 1157259     | 31988351 | 20.50% | 0.238% |
| 357                     | 15.594 | 15.586 | 15.647 | HH  | 1099274     | 38156675 | 24.46% | 0.284% |
| 358                     | 15.653 | 15.647 | 15.684 | HH  | 1024657     | 22470169 | 14.40% | 0.167% |
| 359                     | 15.688 | 15.684 | 15.692 | HH  | 989855      | 4783277  | 3.07%  | 0.036% |
| 360                     | 15.703 | 15.692 | 15.784 | HH  | 1000921     | 51705983 | 33.14% | 0.385% |
| 361                     | 15.794 | 15.784 | 15.837 | HH  | 894744      | 27907158 | 17.89% | 0.208% |
| 362                     | 15.853 | 15.837 | 15.884 | HH  | 853919      | 23466737 | 15.04% | 0.175% |
| 363                     | 15.901 | 15.884 | 15.972 | HH  | 842387      | 41526544 | 26.61% | 0.309% |
| 364                     | 15.997 | 15.972 | 16.017 | HH  | 753179      | 19948789 | 12.79% | 0.149% |
| 365                     | 16.041 | 16.017 | 16.065 | HH  | 822056      | 21783548 | 13.96% | 0.162% |
| 366                     | 16.070 | 16.065 | 16.107 | HH  | 754860      | 18169606 | 11.65% | 0.135% |
| 367                     | 16.112 | 16.107 | 16.157 | HH  | 674013      | 19379643 | 12.42% | 0.144% |
| 368                     | 16.165 | 16.157 | 16.172 | HH  | 616910      | 5319925  | 3.41%  | 0.040% |
| 369                     | 16.180 | 16.172 | 16.183 | HH  | 618925      | 4031867  | 2.58%  | 0.030% |
| 370                     | 16.187 | 16.183 | 16.232 | HH  | 619612      | 17781643 | 11.40% | 0.133% |
| 371                     | 16.252 | 16.232 | 16.266 | HH  | 578267      | 11380912 | 7.29%  | 0.085% |
| 372                     | 16.288 | 16.266 | 16.295 | HH  | 568824      | 9799349  | 6.28%  | 0.073% |
| 373                     | 16.298 | 16.295 | 16.333 | HH  | 565082      | 12694198 | 8.14%  | 0.095% |
| 374                     | 16.359 | 16.333 | 16.392 | HH  | 584266      | 18980482 | 12.16% | 0.141% |
| 375                     | 16.417 | 16.392 | 16.452 | HH  | 573306      | 19289538 | 12.36% | 0.144% |
| 376                     | 16.458 | 16.452 | 16.481 | HHA | 513692      | 8899039  | 5.70%  | 0.066% |
| Sum of corrected areas: |        |        |        |     | 13418550723 |          |        |        |

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