

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC101818AL\  
 Data File : FC036963.D  
 Signal(s) : FID1A.CH  
 Acq On : 18 Oct 2018 21:46  
 Sample : J5536-04  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Alaphatic EPH 101718.M  
 Title : GC Extractables

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         | 3.188       | 3.182        | 3.249      | PH       | 15251          | 184299       | 0.12%          | 0.004%        |
| 2         | 3.294       | 3.249        | 3.307      | PH       | 11123          | 148515       | 0.10%          | 0.003%        |
| 3         | 3.318       | 3.307        | 3.335      | HH       | 8314           | 84847        | 0.06%          | 0.002%        |
| 4         | 3.352       | 3.335        | 3.363      | HH       | 6832           | 79575        | 0.05%          | 0.002%        |
| 5         | 3.377       | 3.363        | 3.399      | HH       | 8833           | 116578       | 0.08%          | 0.002%        |
| 6         | 3.410       | 3.399        | 3.420      | HH       | 5103           | 49094        | 0.03%          | 0.001%        |
| 7         | 3.437       | 3.420        | 3.470      | HH       | 17965          | 287911       | 0.19%          | 0.005%        |
| 8         | 3.502       | 3.470        | 3.520      | HH       | 11662          | 202770       | 0.13%          | 0.004%        |
| 9         | 3.547       | 3.520        | 3.588      | HH       | 35424          | 602176       | 0.39%          | 0.011%        |
| 10        | 3.617       | 3.588        | 3.647      | HH       | 27375          | 448693       | 0.29%          | 0.009%        |
| 11        | 3.664       | 3.647        | 3.692      | HH       | 12145          | 206859       | 0.14%          | 0.004%        |
| 12        | 3.707       | 3.692        | 3.729      | HH       | 28311          | 274666       | 0.18%          | 0.005%        |
| 13        | 3.757       | 3.729        | 3.802      | HH       | 18187          | 438368       | 0.29%          | 0.008%        |
| 14        | 3.841       | 3.802        | 3.854      | HH       | 26222          | 389869       | 0.26%          | 0.007%        |
| 15        | 3.866       | 3.854        | 3.885      | HH       | 19034          | 265518       | 0.17%          | 0.005%        |
| 16        | 3.900       | 3.885        | 3.919      | HH       | 16878          | 259973       | 0.17%          | 0.005%        |
| 17        | 3.933       | 3.919        | 3.956      | HH       | 21416          | 280269       | 0.18%          | 0.005%        |
| 18        | 3.995       | 3.956        | 4.027      | HH       | 19439          | 510731       | 0.33%          | 0.010%        |
| 19        | 4.042       | 4.027        | 4.064      | HH       | 23043          | 347207       | 0.23%          | 0.007%        |
| 20        | 4.079       | 4.064        | 4.117      | HH       | 15732          | 324343       | 0.21%          | 0.006%        |
| 21        | 4.149       | 4.117        | 4.161      | HH       | 21725          | 301107       | 0.20%          | 0.006%        |
| 22        | 4.189       | 4.161        | 4.213      | HH       | 20816          | 481810       | 0.32%          | 0.009%        |
| 23        | 4.240       | 4.213        | 4.261      | HH       | 15814          | 361094       | 0.24%          | 0.007%        |
| 24        | 4.273       | 4.261        | 4.288      | HH       | 12455          | 154987       | 0.10%          | 0.003%        |
| 25        | 4.305       | 4.288        | 4.329      | HH       | 19997          | 300711       | 0.20%          | 0.006%        |
| 26        | 4.338       | 4.329        | 4.364      | HH       | 7869           | 149563       | 0.10%          | 0.003%        |
| 27        | 4.401       | 4.364        | 4.415      | HH       | 19826          | 481662       | 0.32%          | 0.009%        |
| 28        | 4.434       | 4.415        | 4.452      | HH       | 49961          | 692566       | 0.45%          | 0.013%        |
| 29        | 4.462       | 4.452        | 4.477      | HH       | 23364          | 299462       | 0.20%          | 0.006%        |
| 30        | 4.493       | 4.477        | 4.509      | HH       | 68725          | 733498       | 0.48%          | 0.014%        |
| 31        | 4.518       | 4.509        | 4.531      | HH       | 26535          | 299511       | 0.20%          | 0.006%        |
| 32        | 4.547       | 4.531        | 4.576      | HH       | 27664          | 612707       | 0.40%          | 0.012%        |
| 33        | 4.611       | 4.576        | 4.624      | HH       | 28127          | 624660       | 0.41%          | 0.012%        |
| 34        | 4.652       | 4.624        | 4.679      | HH       | 40262          | 929334       | 0.61%          | 0.018%        |
| 35        | 4.701       | 4.679        | 4.735      | HH       | 51727          | 844014       | 0.55%          | 0.016%        |
| 36        | 4.758       | 4.735        | 4.777      | HH       | 19333          | 385173       | 0.25%          | 0.007%        |

| rteres.txt |       |       |       |    |        |         |       |        |
|------------|-------|-------|-------|----|--------|---------|-------|--------|
| 37         | 4.793 | 4.777 | 4.809 | HH | 22166  | 338042  | 0.22% | 0.006% |
| 38         | 4.820 | 4.809 | 4.828 | HH | 16446  | 174215  | 0.11% | 0.003% |
| 39         | 4.850 | 4.828 | 4.865 | HH | 31187  | 509467  | 0.33% | 0.010% |
| 40         | 4.877 | 4.865 | 4.899 | HH | 30175  | 415528  | 0.27% | 0.008% |
|            |       |       |       |    |        |         |       |        |
| 41         | 4.921 | 4.899 | 4.933 | HH | 35003  | 490232  | 0.32% | 0.009% |
| 42         | 4.948 | 4.933 | 4.966 | HH | 49324  | 674822  | 0.44% | 0.013% |
| 43         | 4.978 | 4.966 | 5.013 | HH | 29671  | 646359  | 0.42% | 0.012% |
| 44         | 5.034 | 5.013 | 5.052 | HH | 24909  | 435713  | 0.29% | 0.008% |
| 45         | 5.070 | 5.052 | 5.084 | HH | 28789  | 456551  | 0.30% | 0.009% |
|            |       |       |       |    |        |         |       |        |
| 46         | 5.092 | 5.084 | 5.106 | HH | 24375  | 292460  | 0.19% | 0.006% |
| 47         | 5.132 | 5.106 | 5.144 | HH | 37903  | 648542  | 0.42% | 0.012% |
| 48         | 5.157 | 5.144 | 5.173 | HH | 37301  | 530185  | 0.35% | 0.010% |
| 49         | 5.186 | 5.173 | 5.233 | HH | 29470  | 845486  | 0.55% | 0.016% |
| 50         | 5.246 | 5.233 | 5.256 | HH | 21561  | 261050  | 0.17% | 0.005% |
|            |       |       |       |    |        |         |       |        |
| 51         | 5.287 | 5.256 | 5.306 | HH | 57267  | 1066321 | 0.70% | 0.020% |
| 52         | 5.320 | 5.306 | 5.329 | HH | 24626  | 295533  | 0.19% | 0.006% |
| 53         | 5.342 | 5.329 | 5.374 | HH | 27905  | 592671  | 0.39% | 0.011% |
| 54         | 5.394 | 5.374 | 5.402 | HH | 23142  | 344736  | 0.23% | 0.007% |
| 55         | 5.414 | 5.402 | 5.425 | HH | 26218  | 318319  | 0.21% | 0.006% |
|            |       |       |       |    |        |         |       |        |
| 56         | 5.447 | 5.425 | 5.496 | HH | 69534  | 1612386 | 1.06% | 0.031% |
| 57         | 5.519 | 5.496 | 5.534 | HH | 32820  | 614489  | 0.40% | 0.012% |
| 58         | 5.557 | 5.534 | 5.594 | HH | 60386  | 1329697 | 0.87% | 0.025% |
| 59         | 5.618 | 5.594 | 5.631 | HH | 28848  | 533076  | 0.35% | 0.010% |
| 60         | 5.657 | 5.631 | 5.671 | HH | 36422  | 707949  | 0.46% | 0.013% |
|            |       |       |       |    |        |         |       |        |
| 61         | 5.679 | 5.671 | 5.704 | HH | 29249  | 452335  | 0.30% | 0.009% |
| 62         | 5.726 | 5.704 | 5.742 | HH | 34318  | 539436  | 0.35% | 0.010% |
| 63         | 5.774 | 5.742 | 5.792 | HH | 44229  | 866773  | 0.57% | 0.016% |
| 64         | 5.813 | 5.792 | 5.840 | HH | 41341  | 984728  | 0.65% | 0.019% |
| 65         | 5.852 | 5.840 | 5.886 | HH | 34845  | 845501  | 0.55% | 0.016% |
|            |       |       |       |    |        |         |       |        |
| 66         | 5.910 | 5.886 | 5.929 | HH | 49687  | 894163  | 0.59% | 0.017% |
| 67         | 5.949 | 5.929 | 5.978 | HH | 42580  | 1061794 | 0.70% | 0.020% |
| 68         | 5.989 | 5.978 | 6.012 | HH | 37597  | 693708  | 0.45% | 0.013% |
| 69         | 6.028 | 6.012 | 6.038 | HH | 35843  | 476500  | 0.31% | 0.009% |
| 70         | 6.053 | 6.038 | 6.106 | HH | 40142  | 1366390 | 0.90% | 0.026% |
|            |       |       |       |    |        |         |       |        |
| 71         | 6.127 | 6.106 | 6.151 | HH | 40810  | 908083  | 0.59% | 0.017% |
| 72         | 6.169 | 6.151 | 6.185 | HH | 39792  | 734802  | 0.48% | 0.014% |
| 73         | 6.194 | 6.185 | 6.234 | HH | 36692  | 941500  | 0.62% | 0.018% |
| 74         | 6.284 | 6.234 | 6.297 | HH | 31852  | 1101312 | 0.72% | 0.021% |
| 75         | 6.329 | 6.297 | 6.343 | HH | 34512  | 883896  | 0.58% | 0.017% |
|            |       |       |       |    |        |         |       |        |
| 76         | 6.369 | 6.343 | 6.380 | HH | 42712  | 802332  | 0.53% | 0.015% |
| 77         | 6.398 | 6.380 | 6.418 | HH | 98244  | 1400027 | 0.92% | 0.027% |
| 78         | 6.432 | 6.418 | 6.455 | HH | 52488  | 898079  | 0.59% | 0.017% |
| 79         | 6.469 | 6.455 | 6.482 | HH | 38001  | 552352  | 0.36% | 0.011% |
| 80         | 6.520 | 6.482 | 6.541 | HH | 41525  | 1198957 | 0.79% | 0.023% |
|            |       |       |       |    |        |         |       |        |
| 81         | 6.564 | 6.541 | 6.588 | HH | 46798  | 1039121 | 0.68% | 0.020% |
| 82         | 6.598 | 6.588 | 6.611 | HH | 32951  | 437685  | 0.29% | 0.008% |
| 83         | 6.635 | 6.611 | 6.667 | HH | 41713  | 1160789 | 0.76% | 0.022% |
| 84         | 6.697 | 6.667 | 6.717 | HH | 37248  | 970499  | 0.64% | 0.018% |
| 85         | 6.761 | 6.717 | 6.781 | HH | 53292  | 1575761 | 1.03% | 0.030% |
|            |       |       |       |    |        |         |       |        |
| 86         | 6.801 | 6.781 | 6.830 | HH | 52835  | 1175561 | 0.77% | 0.022% |
| 87         | 6.854 | 6.830 | 6.895 | HH | 51234  | 1516518 | 0.99% | 0.029% |
| 88         | 6.907 | 6.895 | 6.922 | HH | 36609  | 534141  | 0.35% | 0.010% |
| 89         | 6.948 | 6.922 | 6.977 | HH | 106207 | 1867587 | 1.22% | 0.036% |

| rteres.txt |       |       |       |    |        |         |       |        |
|------------|-------|-------|-------|----|--------|---------|-------|--------|
| 90         | 6.992 | 6.977 | 7.022 | HH | 44948  | 1064451 | 0.70% | 0.020% |
| 91         | 7.064 | 7.022 | 7.101 | HH | 77946  | 2181745 | 1.43% | 0.041% |
| 92         | 7.123 | 7.101 | 7.139 | HH | 41122  | 873329  | 0.57% | 0.017% |
| 93         | 7.168 | 7.139 | 7.192 | HH | 48115  | 1276190 | 0.84% | 0.024% |
| 94         | 7.229 | 7.192 | 7.267 | HH | 58524  | 1937923 | 1.27% | 0.037% |
| 95         | 7.292 | 7.267 | 7.314 | HH | 50281  | 1172309 | 0.77% | 0.022% |
| 96         | 7.339 | 7.314 | 7.369 | HH | 64978  | 1646421 | 1.08% | 0.031% |
| 97         | 7.386 | 7.369 | 7.409 | HH | 60615  | 1096688 | 0.72% | 0.021% |
| 98         | 7.471 | 7.409 | 7.554 | HH | 545016 | 9042199 | 5.92% | 0.172% |
| 99         | 7.590 | 7.554 | 7.610 | HH | 57055  | 1706267 | 1.12% | 0.032% |
| 100        | 7.637 | 7.610 | 7.657 | HH | 68022  | 1544254 | 1.01% | 0.029% |
| 101        | 7.679 | 7.657 | 7.703 | HH | 66678  | 1587883 | 1.04% | 0.030% |
| 102        | 7.726 | 7.703 | 7.750 | HH | 115232 | 2186701 | 1.43% | 0.042% |
| 103        | 7.766 | 7.750 | 7.774 | HH | 62654  | 877497  | 0.57% | 0.017% |
| 104        | 7.793 | 7.774 | 7.813 | HH | 77555  | 1622765 | 1.06% | 0.031% |
| 105        | 7.858 | 7.813 | 7.887 | HH | 136010 | 3750618 | 2.46% | 0.071% |
| 106        | 7.915 | 7.887 | 7.933 | HH | 82372  | 1853547 | 1.21% | 0.035% |
| 107        | 7.949 | 7.933 | 7.962 | HH | 73531  | 1168753 | 0.77% | 0.022% |
| 108        | 8.003 | 7.962 | 8.019 | HH | 92068  | 2660755 | 1.74% | 0.051% |
| 109        | 8.032 | 8.019 | 8.056 | HH | 79146  | 1697157 | 1.11% | 0.032% |
| 110        | 8.109 | 8.056 | 8.137 | HH | 145726 | 4878265 | 3.20% | 0.093% |
| 111        | 8.157 | 8.137 | 8.171 | HH | 170224 | 2547831 | 1.67% | 0.048% |
| 112        | 8.183 | 8.171 | 8.202 | HH | 135316 | 2136651 | 1.40% | 0.041% |
| 113        | 8.216 | 8.202 | 8.236 | HH | 125487 | 2092031 | 1.37% | 0.040% |
| 114        | 8.249 | 8.236 | 8.262 | HH | 87023  | 1227457 | 0.80% | 0.023% |
| 115        | 8.276 | 8.262 | 8.294 | HH | 91523  | 1518515 | 0.99% | 0.029% |
| 116        | 8.327 | 8.294 | 8.367 | HH | 381143 | 6469586 | 4.24% | 0.123% |
| 117        | 8.385 | 8.367 | 8.402 | HH | 87356  | 1604969 | 1.05% | 0.031% |
| 118        | 8.423 | 8.402 | 8.460 | HH | 128638 | 3141456 | 2.06% | 0.060% |
| 119        | 8.477 | 8.460 | 8.499 | HH | 93142  | 1740370 | 1.14% | 0.033% |
| 120        | 8.537 | 8.499 | 8.552 | HH | 76446  | 2199195 | 1.44% | 0.042% |
| 121        | 8.569 | 8.552 | 8.587 | HH | 111213 | 1759915 | 1.15% | 0.033% |
| 122        | 8.596 | 8.587 | 8.621 | HH | 72081  | 1280780 | 0.84% | 0.024% |
| 123        | 8.639 | 8.621 | 8.649 | HH | 66722  | 1033845 | 0.68% | 0.020% |
| 124        | 8.666 | 8.649 | 8.677 | HH | 85275  | 1280474 | 0.84% | 0.024% |
| 125        | 8.691 | 8.677 | 8.724 | HH | 85509  | 2035608 | 1.33% | 0.039% |
| 126        | 8.812 | 8.724 | 8.847 | HH | 162537 | 5989909 | 3.92% | 0.114% |
| 127        | 8.870 | 8.847 | 8.913 | HH | 116831 | 3097749 | 2.03% | 0.059% |
| 128        | 8.943 | 8.913 | 8.961 | HH | 81941  | 1977634 | 1.30% | 0.038% |
| 129        | 8.987 | 8.961 | 9.006 | HH | 97166  | 2108040 | 1.38% | 0.040% |
| 130        | 9.039 | 9.006 | 9.067 | HH | 154439 | 3978787 | 2.61% | 0.076% |
| 131        | 9.108 | 9.067 | 9.158 | HH | 151028 | 5356396 | 3.51% | 0.102% |
| 132        | 9.175 | 9.158 | 9.189 | HH | 94963  | 1582192 | 1.04% | 0.030% |
| 133        | 9.203 | 9.189 | 9.214 | HH | 99768  | 1375277 | 0.90% | 0.026% |
| 134        | 9.247 | 9.214 | 9.267 | HH | 157612 | 3483937 | 2.28% | 0.066% |
| 135        | 9.283 | 9.267 | 9.331 | HH | 94623  | 3175250 | 2.08% | 0.060% |
| 136        | 9.351 | 9.331 | 9.367 | HH | 77542  | 1557785 | 1.02% | 0.030% |
| 137        | 9.393 | 9.367 | 9.422 | HH | 99402  | 2882436 | 1.89% | 0.055% |
| 138        | 9.444 | 9.422 | 9.472 | HH | 101818 | 2698929 | 1.77% | 0.051% |
| 139        | 9.519 | 9.472 | 9.567 | HH | 216972 | 6860005 | 4.49% | 0.130% |
| 140        | 9.579 | 9.567 | 9.601 | HH | 115610 | 2075506 | 1.36% | 0.039% |
| 141        | 9.642 | 9.601 | 9.662 | HH | 155960 | 4807985 | 3.15% | 0.091% |

| rteres.txt |        |        |        |    |         |          |        |        |
|------------|--------|--------|--------|----|---------|----------|--------|--------|
| 142        | 9.685  | 9.662  | 9.704  | HH | 215236  | 3980871  | 2.61%  | 0.076% |
| 143        | 9.716  | 9.704  | 9.735  | HH | 134174  | 2321107  | 1.52%  | 0.044% |
| 144        | 9.791  | 9.735  | 9.814  | HH | 372565  | 10243585 | 6.71%  | 0.195% |
| 145        | 9.865  | 9.814  | 9.900  | HH | 391545  | 11392569 | 7.46%  | 0.217% |
| 146        | 9.920  | 9.900  | 9.931  | HH | 209269  | 3382059  | 2.22%  | 0.064% |
| 147        | 9.956  | 9.931  | 9.975  | HH | 292630  | 6322691  | 4.14%  | 0.120% |
| 148        | 10.017 | 9.975  | 10.062 | HH | 493085  | 14544487 | 9.53%  | 0.277% |
| 149        | 10.100 | 10.062 | 10.121 | HH | 588039  | 11433618 | 7.49%  | 0.217% |
| 150        | 10.128 | 10.121 | 10.157 | HH | 260506  | 4702401  | 3.08%  | 0.089% |
| 151        | 10.176 | 10.157 | 10.196 | HH | 223829  | 4553043  | 2.98%  | 0.087% |
| 152        | 10.221 | 10.196 | 10.239 | HH | 230659  | 5475843  | 3.59%  | 0.104% |
| 153        | 10.286 | 10.239 | 10.305 | HH | 1023851 | 21339527 | 13.98% | 0.406% |
| 154        | 10.320 | 10.305 | 10.342 | HH | 848981  | 11398838 | 7.47%  | 0.217% |
| 155        | 10.351 | 10.342 | 10.369 | HH | 230334  | 3583626  | 2.35%  | 0.068% |
| 156        | 10.394 | 10.369 | 10.418 | HH | 579395  | 10514160 | 6.89%  | 0.200% |
| 157        | 10.431 | 10.418 | 10.454 | HH | 316769  | 6015748  | 3.94%  | 0.114% |
| 158        | 10.484 | 10.454 | 10.498 | HH | 598157  | 11293324 | 7.40%  | 0.215% |
| 159        | 10.516 | 10.498 | 10.556 | HH | 706472  | 15305752 | 10.03% | 0.291% |
| 160        | 10.602 | 10.556 | 10.649 | HH | 671513  | 19909401 | 13.04% | 0.379% |
| 161        | 10.674 | 10.649 | 10.700 | HH | 603139  | 12466344 | 8.17%  | 0.237% |
| 162        | 10.719 | 10.700 | 10.732 | HH | 438379  | 7369080  | 4.83%  | 0.140% |
| 163        | 10.751 | 10.732 | 10.771 | HH | 751344  | 11693621 | 7.66%  | 0.222% |
| 164        | 10.793 | 10.771 | 10.820 | HH | 342546  | 9216717  | 6.04%  | 0.175% |
| 165        | 10.835 | 10.820 | 10.850 | HH | 274977  | 4605433  | 3.02%  | 0.088% |
| 166        | 10.871 | 10.850 | 10.887 | HH | 450657  | 7419902  | 4.86%  | 0.141% |
| 167        | 10.903 | 10.887 | 10.931 | HH | 370511  | 8428046  | 5.52%  | 0.160% |
| 168        | 11.015 | 10.931 | 11.035 | HH | 1504874 | 37986425 | 24.89% | 0.722% |
| 169        | 11.054 | 11.035 | 11.072 | HH | 605654  | 11924831 | 7.81%  | 0.227% |
| 170        | 11.087 | 11.072 | 11.109 | HH | 547859  | 10561487 | 6.92%  | 0.201% |
| 171        | 11.137 | 11.109 | 11.150 | HH | 729643  | 13295057 | 8.71%  | 0.253% |
| 172        | 11.177 | 11.150 | 11.199 | HH | 1111814 | 23692291 | 15.52% | 0.451% |
| 173        | 11.226 | 11.199 | 11.244 | HH | 1473696 | 27977042 | 18.33% | 0.532% |
| 174        | 11.256 | 11.244 | 11.267 | HH | 1125243 | 14345564 | 9.40%  | 0.273% |
| 175        | 11.287 | 11.267 | 11.299 | HH | 1257640 | 21170178 | 13.87% | 0.403% |
| 176        | 11.315 | 11.299 | 11.361 | HH | 1616395 | 43078003 | 28.22% | 0.819% |
| 177        | 11.384 | 11.361 | 11.413 | HH | 1645704 | 31887793 | 20.89% | 0.606% |
| 178        | 11.431 | 11.413 | 11.446 | HH | 897329  | 15685663 | 10.28% | 0.298% |
| 179        | 11.474 | 11.446 | 11.500 | HH | 2010616 | 44571220 | 29.20% | 0.848% |
| 180        | 11.522 | 11.500 | 11.534 | HH | 1568967 | 26167622 | 17.14% | 0.498% |
| 181        | 11.546 | 11.534 | 11.603 | HH | 1413787 | 45859879 | 30.04% | 0.872% |
| 182        | 11.637 | 11.603 | 11.678 | HH | 2169258 | 64521624 | 42.27% | 1.227% |
| 183        | 11.732 | 11.678 | 11.752 | HH | 3624360 | 83059099 | 54.42% | 1.579% |
| 184        | 11.767 | 11.752 | 11.794 | HH | 1814403 | 32923006 | 21.57% | 0.626% |
| 185        | 11.804 | 11.794 | 11.812 | HH | 945703  | 10059857 | 6.59%  | 0.191% |
| 186        | 11.837 | 11.812 | 11.847 | HH | 1960807 | 32637000 | 21.38% | 0.621% |
| 187        | 11.859 | 11.847 | 11.874 | HH | 2060740 | 27986440 | 18.34% | 0.532% |
| 188        | 11.896 | 11.874 | 11.918 | HH | 2531732 | 44926326 | 29.43% | 0.854% |
| 189        | 11.928 | 11.918 | 11.956 | HH | 852764  | 17810958 | 11.67% | 0.339% |
| 190        | 11.987 | 11.956 | 12.056 | HH | 2283425 | 58815548 | 38.53% | 1.118% |
| 191        | 12.088 | 12.056 | 12.107 | HH | 702101  | 19120392 | 12.53% | 0.364% |
| 192        | 12.144 | 12.107 | 12.182 | HH | 2764657 | 58815627 | 38.53% | 1.118% |
| 193        | 12.192 | 12.182 | 12.239 | HH | 688711  | 20791073 | 13.62% | 0.395% |
| 194        | 12.261 | 12.239 | 12.280 | HH | 516117  | 12136976 | 7.95%  | 0.231% |

| rteres.txt |        |        |        |    |         |           |         |        |
|------------|--------|--------|--------|----|---------|-----------|---------|--------|
| 195        | 12.314 | 12.280 | 12.335 | HH | 674743  | 18099084  | 11.86%  | 0.344% |
| 196        | 12.409 | 12.335 | 12.447 | HH | 5972122 | 152638627 | 100.00% | 2.902% |
| 197        | 12.461 | 12.447 | 12.472 | HH | 839913  | 11852251  | 7.76%   | 0.225% |
| 198        | 12.485 | 12.472 | 12.506 | HH | 902265  | 16537786  | 10.83%  | 0.314% |
| 199        | 12.526 | 12.506 | 12.567 | HH | 1104947 | 29454386  | 19.30%  | 0.560% |
| 200        | 12.594 | 12.567 | 12.641 | HH | 866478  | 32004890  | 20.97%  | 0.609% |
| 201        | 12.666 | 12.641 | 12.687 | HH | 793095  | 18850614  | 12.35%  | 0.358% |
| 202        | 12.725 | 12.687 | 12.746 | HH | 1144779 | 30643592  | 20.08%  | 0.583% |
| 203        | 12.764 | 12.746 | 12.797 | HH | 999812  | 27442295  | 17.98%  | 0.522% |
| 204        | 12.831 | 12.797 | 12.900 | HH | 1198794 | 55019823  | 36.05%  | 1.046% |
| 205        | 12.913 | 12.900 | 12.926 | HH | 611200  | 9172095   | 6.01%   | 0.174% |
| 206        | 12.953 | 12.926 | 12.974 | HH | 728612  | 19131161  | 12.53%  | 0.364% |
| 207        | 13.002 | 12.974 | 13.061 | HH | 1088580 | 38037716  | 24.92%  | 0.723% |
| 208        | 13.090 | 13.061 | 13.109 | HH | 721388  | 19098053  | 12.51%  | 0.363% |
| 209        | 13.119 | 13.109 | 13.142 | HH | 697985  | 13284123  | 8.70%   | 0.253% |
| 210        | 13.153 | 13.142 | 13.177 | HH | 699797  | 13668344  | 8.95%   | 0.260% |
| 211        | 13.206 | 13.177 | 13.226 | HH | 666729  | 18368429  | 12.03%  | 0.349% |
| 212        | 13.245 | 13.226 | 13.263 | HH | 692433  | 14544329  | 9.53%   | 0.277% |
| 213        | 13.287 | 13.263 | 13.312 | HH | 760456  | 19999110  | 13.10%  | 0.380% |
| 214        | 13.345 | 13.312 | 13.382 | HH | 962863  | 33643024  | 22.04%  | 0.640% |
| 215        | 13.402 | 13.382 | 13.446 | HH | 812179  | 28276509  | 18.53%  | 0.538% |
| 216        | 13.470 | 13.446 | 13.489 | HH | 781490  | 18968279  | 12.43%  | 0.361% |
| 217        | 13.506 | 13.489 | 13.524 | HH | 840228  | 15764166  | 10.33%  | 0.300% |
| 218        | 13.544 | 13.524 | 13.552 | HH | 747557  | 11969093  | 7.84%   | 0.228% |
| 219        | 13.571 | 13.552 | 13.584 | HH | 835589  | 15081144  | 9.88%   | 0.287% |
| 220        | 13.603 | 13.584 | 13.610 | HH | 867718  | 13137841  | 8.61%   | 0.250% |
| 221        | 13.624 | 13.610 | 13.634 | HH | 902594  | 12517258  | 8.20%   | 0.238% |
| 222        | 13.641 | 13.634 | 13.667 | HH | 894633  | 17639689  | 11.56%  | 0.335% |
| 223        | 13.692 | 13.667 | 13.713 | HH | 954591  | 24818339  | 16.26%  | 0.472% |
| 224        | 13.731 | 13.713 | 13.752 | HH | 1035011 | 22492246  | 14.74%  | 0.428% |
| 225        | 13.779 | 13.752 | 13.821 | HH | 998629  | 38251702  | 25.06%  | 0.727% |
| 226        | 13.840 | 13.821 | 13.859 | HH | 1108230 | 23102607  | 15.14%  | 0.439% |
| 227        | 13.894 | 13.859 | 13.919 | HH | 1103744 | 36416818  | 23.86%  | 0.692% |
| 228        | 13.941 | 13.919 | 13.964 | HH | 1148742 | 27799284  | 18.21%  | 0.529% |
| 229        | 14.000 | 13.964 | 14.048 | HH | 1313123 | 56686738  | 37.14%  | 1.078% |
| 230        | 14.072 | 14.048 | 14.109 | HH | 1115696 | 38142158  | 24.99%  | 0.725% |
| 231        | 14.171 | 14.109 | 14.197 | HH | 1693712 | 69906628  | 45.80%  | 1.329% |
| 232        | 14.217 | 14.197 | 14.239 | HH | 1606179 | 36194808  | 23.71%  | 0.688% |
| 233        | 14.264 | 14.239 | 14.291 | HH | 1469049 | 42885997  | 28.10%  | 0.815% |
| 234        | 14.315 | 14.291 | 14.349 | HH | 1600620 | 45508606  | 29.81%  | 0.865% |
| 235        | 14.384 | 14.349 | 14.414 | HH | 1455822 | 51926342  | 34.02%  | 0.987% |
| 236        | 14.441 | 14.414 | 14.471 | HH | 1716477 | 52173388  | 34.18%  | 0.992% |
| 237        | 14.497 | 14.471 | 14.524 | HH | 1797135 | 50157418  | 32.86%  | 0.954% |
| 238        | 14.531 | 14.524 | 14.567 | HH | 1560439 | 37441413  | 24.53%  | 0.712% |
| 239        | 14.595 | 14.567 | 14.624 | HH | 1768996 | 53140147  | 34.81%  | 1.010% |
| 240        | 14.646 | 14.624 | 14.669 | HH | 1854663 | 45967158  | 30.12%  | 0.874% |
| 241        | 14.692 | 14.669 | 14.710 | HH | 2070240 | 45814270  | 30.01%  | 0.871% |
| 242        | 14.727 | 14.710 | 14.758 | HH | 1993471 | 52584428  | 34.45%  | 1.000% |
| 243        | 14.776 | 14.758 | 14.794 | HH | 1724091 | 34732955  | 22.76%  | 0.660% |
| 244        | 14.799 | 14.794 | 14.818 | HH | 1648959 | 23280444  | 15.25%  | 0.443% |
| 245        | 14.833 | 14.818 | 14.875 | HH | 1707230 | 52083430  | 34.12%  | 0.990% |
| 246        | 14.942 | 14.875 | 14.971 | HH | 2262717 | 104771998 | 68.64%  | 1.992% |

| rteres.txt |        |        |        |    |         |          |        |        |
|------------|--------|--------|--------|----|---------|----------|--------|--------|
| 247        | 15.010 | 14.971 | 15.029 | HH | 1937819 | 62560610 | 40.99% | 1.190% |
| 248        | 15.043 | 15.029 | 15.067 | HH | 1807771 | 38129760 | 24.98% | 0.725% |
| 249        | 15.095 | 15.067 | 15.119 | HH | 1729570 | 48239568 | 31.60% | 0.917% |
| 250        | 15.157 | 15.119 | 15.171 | HH | 2011244 | 54128437 | 35.46% | 1.029% |
| 251        | 15.200 | 15.171 | 15.252 | HH | 2458335 | 94937125 | 62.20% | 1.805% |
| 252        | 15.274 | 15.252 | 15.299 | HH | 1758824 | 44064734 | 28.87% | 0.838% |
| 253        | 15.342 | 15.299 | 15.361 | HH | 1583137 | 51320748 | 33.62% | 0.976% |
| 254        | 15.388 | 15.361 | 15.427 | HH | 2148560 | 72718787 | 47.64% | 1.383% |
| 255        | 15.455 | 15.427 | 15.481 | HH | 2350565 | 63383188 | 41.52% | 1.205% |
| 256        | 15.497 | 15.481 | 15.512 | HH | 1786739 | 30668553 | 20.09% | 0.583% |
| 257        | 15.532 | 15.512 | 15.567 | HH | 1768081 | 53148609 | 34.82% | 1.011% |
| 258        | 15.581 | 15.567 | 15.602 | HH | 1490900 | 28922208 | 18.95% | 0.550% |
| 259        | 15.636 | 15.602 | 15.656 | HH | 1864534 | 50915676 | 33.36% | 0.968% |
| 260        | 15.692 | 15.656 | 15.731 | HH | 2075493 | 75871014 | 49.71% | 1.443% |
| 261        | 15.749 | 15.731 | 15.782 | HH | 1533616 | 39705962 | 26.01% | 0.755% |
| 262        | 15.858 | 15.782 | 15.867 | HH | 1610034 | 64336968 | 42.15% | 1.223% |
| 263        | 15.879 | 15.867 | 15.902 | HH | 1624210 | 31105776 | 20.38% | 0.591% |
| 264        | 15.938 | 15.902 | 15.981 | HH | 2018093 | 74785120 | 48.99% | 1.422% |
| 265        | 16.007 | 15.981 | 16.027 | HH | 1392410 | 34306340 | 22.48% | 0.652% |
| 266        | 16.038 | 16.027 | 16.070 | HH | 1259272 | 29447050 | 19.29% | 0.560% |
| 267        | 16.101 | 16.070 | 16.144 | HH | 1497783 | 56367326 | 36.93% | 1.072% |
| 268        | 16.166 | 16.144 | 16.189 | HH | 1707909 | 37429765 | 24.52% | 0.712% |
| 269        | 16.204 | 16.189 | 16.229 | HH | 1285830 | 26503818 | 17.36% | 0.504% |
| 270        | 16.276 | 16.229 | 16.283 | HH | 1057719 | 30931679 | 20.26% | 0.588% |
| 271        | 16.294 | 16.283 | 16.307 | HH | 1067231 | 14658240 | 9.60%  | 0.279% |
| 272        | 16.329 | 16.307 | 16.349 | HH | 1196313 | 28272560 | 18.52% | 0.538% |
| 273        | 16.377 | 16.349 | 16.391 | HH | 1505140 | 32722149 | 21.44% | 0.622% |
| 274        | 16.407 | 16.391 | 16.433 | HH | 1509532 | 30005877 | 19.66% | 0.571% |
| 275        | 16.462 | 16.433 | 16.519 | HH | 1110495 | 48423898 | 31.72% | 0.921% |
| 276        | 16.546 | 16.519 | 16.590 | HH | 1127315 | 40430343 | 26.49% | 0.769% |
| 277        | 16.615 | 16.590 | 16.639 | HH | 1186672 | 28169292 | 18.45% | 0.536% |
| 278        | 16.650 | 16.639 | 16.691 | HH | 846916  | 24045162 | 15.75% | 0.457% |
| 279        | 16.718 | 16.691 | 16.739 | HH | 730758  | 20434681 | 13.39% | 0.389% |
| 280        | 16.774 | 16.739 | 16.786 | HH | 813794  | 21295344 | 13.95% | 0.405% |
| 281        | 16.813 | 16.786 | 16.842 | HH | 908527  | 27182238 | 17.81% | 0.517% |
| 282        | 16.856 | 16.842 | 16.874 | HH | 855330  | 13811428 | 9.05%  | 0.263% |
| 283        | 16.898 | 16.874 | 16.925 | HH | 743730  | 19789102 | 12.96% | 0.376% |
| 284        | 16.945 | 16.925 | 16.979 | HH | 609307  | 18188649 | 11.92% | 0.346% |
| 285        | 16.996 | 16.979 | 17.021 | HH | 649449  | 14205472 | 9.31%  | 0.270% |
| 286        | 17.050 | 17.021 | 17.102 | HH | 707442  | 26448948 | 17.33% | 0.503% |
| 287        | 17.111 | 17.102 | 17.155 | HH | 436047  | 13025500 | 8.53%  | 0.248% |
| 288        | 17.196 | 17.155 | 17.219 | HH | 591830  | 18227290 | 11.94% | 0.347% |
| 289        | 17.240 | 17.219 | 17.267 | HH | 530691  | 13088508 | 8.57%  | 0.249% |
| 290        | 17.288 | 17.267 | 17.309 | HH | 523915  | 11367322 | 7.45%  | 0.216% |
| 291        | 17.316 | 17.309 | 17.353 | HH | 443307  | 10101867 | 6.62%  | 0.192% |
| 292        | 17.367 | 17.353 | 17.386 | HH | 349567  | 6658528  | 4.36%  | 0.127% |
| 293        | 17.417 | 17.386 | 17.451 | HH | 370506  | 12935910 | 8.47%  | 0.246% |
| 294        | 17.475 | 17.451 | 17.509 | HH | 478755  | 13002061 | 8.52%  | 0.247% |
| 295        | 17.519 | 17.509 | 17.542 | HH | 304277  | 5888305  | 3.86%  | 0.112% |
| 296        | 17.547 | 17.542 | 17.565 | HH | 286593  | 3753931  | 2.46%  | 0.071% |
| 297        | 17.609 | 17.565 | 17.632 | HH | 304111  | 11770750 | 7.71%  | 0.224% |
| 298        | 17.653 | 17.632 | 17.679 | HH | 309941  | 8199621  | 5.37%  | 0.156% |
| 299        | 17.711 | 17.679 | 17.764 | HH | 361426  | 14927771 | 9.78%  | 0.284% |

| rteres.txt |        |        |        |    |        |          |       |        |
|------------|--------|--------|--------|----|--------|----------|-------|--------|
| 300        | 17.791 | 17.764 | 17.826 | HH | 266931 | 9655736  | 6.33% | 0.184% |
| 301        | 17.843 | 17.826 | 17.855 | HH | 264709 | 4396117  | 2.88% | 0.084% |
| 302        | 17.886 | 17.855 | 17.942 | HH | 378757 | 15013638 | 9.84% | 0.285% |
| 303        | 17.953 | 17.942 | 17.977 | HH | 255153 | 5176045  | 3.39% | 0.098% |
| 304        | 18.009 | 17.977 | 18.039 | HH | 272737 | 9246582  | 6.06% | 0.176% |
| 305        | 18.048 | 18.039 | 18.100 | HH | 245772 | 8537909  | 5.59% | 0.162% |
| 306        | 18.130 | 18.100 | 18.184 | HH | 323861 | 12362857 | 8.10% | 0.235% |
| 307        | 18.213 | 18.184 | 18.234 | HH | 227953 | 6594182  | 4.32% | 0.125% |
| 308        | 18.261 | 18.234 | 18.310 | HH | 254334 | 10579402 | 6.93% | 0.201% |
| 309        | 18.340 | 18.310 | 18.402 | HH | 227364 | 11908592 | 7.80% | 0.226% |
| 310        | 18.420 | 18.402 | 18.434 | HH | 220889 | 4032632  | 2.64% | 0.077% |
| 311        | 18.442 | 18.434 | 18.451 | HH | 211600 | 2152949  | 1.41% | 0.041% |
| 312        | 18.475 | 18.451 | 18.493 | HH | 217095 | 5394475  | 3.53% | 0.103% |
| 313        | 18.504 | 18.493 | 18.532 | HH | 210524 | 4867805  | 3.19% | 0.093% |
| 314        | 18.556 | 18.532 | 18.591 | HH | 212057 | 7282606  | 4.77% | 0.138% |
| 315        | 18.604 | 18.591 | 18.617 | HH | 207309 | 3288484  | 2.15% | 0.063% |
| 316        | 18.639 | 18.617 | 18.664 | HH | 215970 | 5786077  | 3.79% | 0.110% |
| 317        | 18.708 | 18.664 | 18.718 | HH | 223676 | 6901984  | 4.52% | 0.131% |
| 318        | 18.727 | 18.718 | 18.768 | HH | 224741 | 6472567  | 4.24% | 0.123% |
| 319        | 18.778 | 18.768 | 18.792 | HH | 210415 | 2943912  | 1.93% | 0.056% |
| 320        | 18.817 | 18.792 | 18.881 | HH | 215934 | 11017078 | 7.22% | 0.209% |
| 321        | 18.921 | 18.881 | 18.943 | HH | 208481 | 7647182  | 5.01% | 0.145% |
| 322        | 18.978 | 18.943 | 18.999 | HH | 203794 | 6717295  | 4.40% | 0.128% |
| 323        | 19.014 | 18.999 | 19.043 | HH | 202174 | 5312138  | 3.48% | 0.101% |
| 324        | 19.121 | 19.043 | 19.142 | HH | 215103 | 12335925 | 8.08% | 0.235% |
| 325        | 19.149 | 19.142 | 19.169 | HH | 209254 | 3248870  | 2.13% | 0.062% |
| 326        | 19.176 | 19.169 | 19.184 | HH | 205189 | 1815952  | 1.19% | 0.035% |
| 327        | 19.227 | 19.184 | 19.239 | HH | 223131 | 6818588  | 4.47% | 0.130% |
| 328        | 19.266 | 19.239 | 19.304 | HH | 244708 | 8783195  | 5.75% | 0.167% |
| 329        | 19.346 | 19.304 | 19.376 | HH | 234424 | 9487797  | 6.22% | 0.180% |
| 330        | 19.404 | 19.376 | 19.476 | HH | 218784 | 12688972 | 8.31% | 0.241% |
| 331        | 19.507 | 19.476 | 19.544 | HH | 212387 | 8502506  | 5.57% | 0.162% |
| 332        | 19.555 | 19.544 | 19.597 | HH | 213281 | 6551529  | 4.29% | 0.125% |
| 333        | 19.653 | 19.597 | 19.701 | HH | 243909 | 13833806 | 9.06% | 0.263% |
| 334        | 19.720 | 19.701 | 19.776 | HH | 227114 | 9634506  | 6.31% | 0.183% |
| 335        | 19.790 | 19.776 | 19.824 | HH | 214416 | 6019210  | 3.94% | 0.114% |
| 336        | 19.851 | 19.824 | 19.858 | HH | 213256 | 4245511  | 2.78% | 0.081% |
| 337        | 19.867 | 19.858 | 19.886 | HH | 212322 | 3407997  | 2.23% | 0.065% |
| 338        | 19.917 | 19.886 | 19.950 | HH | 212979 | 8088512  | 5.30% | 0.154% |
| 339        | 20.003 | 19.950 | 20.020 | HH | 220877 | 8721919  | 5.71% | 0.166% |
| 340        | 20.029 | 20.020 | 20.072 | HH | 212741 | 6497780  | 4.26% | 0.124% |
| 341        | 20.080 | 20.072 | 20.128 | HH | 207151 | 6669933  | 4.37% | 0.127% |
| 342        | 20.141 | 20.128 | 20.162 | HH | 200657 | 3968825  | 2.60% | 0.075% |
| 343        | 20.201 | 20.162 | 20.254 | HH | 205002 | 10874135 | 7.12% | 0.207% |
| 344        | 20.267 | 20.254 | 20.279 | HH | 194582 | 2877272  | 1.89% | 0.055% |
| 345        | 20.303 | 20.279 | 20.322 | HH | 201736 | 5057112  | 3.31% | 0.096% |
| 346        | 20.361 | 20.322 | 20.404 | HH | 202486 | 9574361  | 6.27% | 0.182% |
| 347        | 20.412 | 20.404 | 20.434 | HH | 193336 | 3365674  | 2.20% | 0.064% |
| 348        | 20.439 | 20.434 | 20.487 | HH | 185546 | 5698801  | 3.73% | 0.108% |
| 349        | 20.515 | 20.487 | 20.546 | HH | 185413 | 6229600  | 4.08% | 0.118% |
| 350        | 20.590 | 20.546 | 20.612 | HH | 175413 | 6748488  | 4.42% | 0.128% |
| 351        | 20.622 | 20.612 | 20.646 | HH | 167833 | 3313661  | 2.17% | 0.063% |

| rteres.txt |        |        |        |     |                                    |         |       |        |
|------------|--------|--------|--------|-----|------------------------------------|---------|-------|--------|
| 352        | 20.658 | 20.646 | 20.686 | HH  | 164774                             | 3863626 | 2.53% | 0.073% |
| 353        | 20.700 | 20.686 | 20.771 | HH  | 159190                             | 7880380 | 5.16% | 0.150% |
| 354        | 20.789 | 20.771 | 20.810 | HH  | 151150                             | 3492849 | 2.29% | 0.066% |
| 355        | 20.819 | 20.810 | 20.847 | HH  | 148737                             | 3292435 | 2.16% | 0.063% |
| 356        | 20.853 | 20.847 | 20.866 | HH  | 147645                             | 1604493 | 1.05% | 0.031% |
| 357        | 20.903 | 20.866 | 20.935 | HH  | 153373                             | 6173399 | 4.04% | 0.117% |
| 358        | 20.980 | 20.935 | 21.043 | HH  | 158102                             | 9622613 | 6.30% | 0.183% |
| 359        | 21.055 | 21.043 | 21.131 | HH  | 141633                             | 7052371 | 4.62% | 0.134% |
| 360        | 21.138 | 21.131 | 21.157 | HH  | 130120                             | 2061044 | 1.35% | 0.039% |
| 361        | 21.180 | 21.157 | 21.222 | HH  | 129400                             | 4920502 | 3.22% | 0.094% |
| 362        | 21.254 | 21.222 | 21.299 | HH  | 134579                             | 5877354 | 3.85% | 0.112% |
| 363        | 21.327 | 21.299 | 21.354 | HH  | 132882                             | 4287714 | 2.81% | 0.082% |
| 364        | 21.367 | 21.354 | 21.375 | HH  | 130711                             | 1668252 | 1.09% | 0.032% |
| 365        | 21.383 | 21.375 | 21.412 | HH  | 131316                             | 2799779 | 1.83% | 0.053% |
| 366        | 21.432 | 21.412 | 21.524 | HH  | 127991                             | 8018547 | 5.25% | 0.152% |
| 367        | 21.532 | 21.524 | 21.554 | HH  | 114849                             | 1996347 | 1.31% | 0.038% |
| 368        | 21.575 | 21.554 | 21.601 | HHA | 115519                             | 3173520 | 2.08% | 0.060% |
|            |        |        |        |     | Sum of corrected areas: 5259005768 |         |       |        |

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