

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC071619AL\  
 Data File : FC042401.D  
 Signal(s) : FID1A.CH  
 Acq On : 16 Jul 2019 15:36  
 Sample : K3622-05  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Alaphatic EPH 070919.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         | 3.445       | 3.422        | 3.467      | BV       | 211            | 2625         | 0.04%          | 0.001%        |
| 2         | 3.494       | 3.467        | 3.506      | VV       | 845            | 8672         | 0.13%          | 0.004%        |
| 3         | 3.518       | 3.506        | 3.535      | VV       | 498            | 5934         | 0.09%          | 0.003%        |
| 4         | 3.542       | 3.535        | 3.585      | VV       | 196            | 1847         | 0.03%          | 0.001%        |
| 5         | 3.600       | 3.585        | 3.612      | VV       | 185            | 1866         | 0.03%          | 0.001%        |
| 6         | 3.625       | 3.612        | 3.665      | VV       | 262            | 4892         | 0.07%          | 0.002%        |
| 7         | 3.693       | 3.665        | 3.726      | VV       | 389            | 5460         | 0.08%          | 0.003%        |
| 8         | 3.742       | 3.726        | 3.752      | PV       | 152            | 1385         | 0.02%          | 0.001%        |
| 9         | 3.772       | 3.752        | 3.789      | VV       | 623            | 8726         | 0.13%          | 0.004%        |
| 10        | 3.800       | 3.789        | 3.817      | VV       | 374            | 4684         | 0.07%          | 0.002%        |
| 11        | 3.827       | 3.817        | 3.842      | VV       | 239            | 2749         | 0.04%          | 0.001%        |
| 12        | 3.867       | 3.842        | 3.899      | VV       | 714            | 13092        | 0.19%          | 0.006%        |
| 13        | 3.906       | 3.899        | 3.924      | VV       | 435            | 5233         | 0.08%          | 0.003%        |
| 14        | 3.939       | 3.924        | 3.954      | VV       | 671            | 6991         | 0.10%          | 0.003%        |
| 15        | 3.966       | 3.954        | 3.980      | VV       | 279            | 3125         | 0.05%          | 0.002%        |
| 16        | 3.993       | 3.980        | 4.027      | VV       | 627            | 8821         | 0.13%          | 0.004%        |
| 17        | 4.042       | 4.027        | 4.058      | VV       | 976            | 8499         | 0.13%          | 0.004%        |
| 18        | 4.079       | 4.058        | 4.110      | VV       | 572            | 11290        | 0.17%          | 0.006%        |
| 19        | 4.117       | 4.110        | 4.140      | VV       | 270            | 4226         | 0.06%          | 0.002%        |
| 20        | 4.161       | 4.140        | 4.184      | VV       | 927            | 15634        | 0.23%          | 0.008%        |
| 21        | 4.196       | 4.184        | 4.209      | VV       | 642            | 8722         | 0.13%          | 0.004%        |
| 22        | 4.237       | 4.209        | 4.249      | VV       | 1191           | 17860        | 0.26%          | 0.009%        |
| 23        | 4.263       | 4.249        | 4.290      | VV       | 1430           | 16415        | 0.24%          | 0.008%        |
| 24        | 4.311       | 4.290        | 4.322      | VV       | 1538           | 17380        | 0.26%          | 0.009%        |
| 25        | 4.332       | 4.322        | 4.396      | VV       | 1439           | 36055        | 0.53%          | 0.018%        |
| 26        | 4.409       | 4.396        | 4.451      | VV       | 607            | 9180         | 0.14%          | 0.005%        |
| 27        | 4.481       | 4.451        | 4.499      | PV       | 510            | 7513         | 0.11%          | 0.004%        |
| 28        | 4.521       | 4.499        | 4.530      | VV       | 404            | 5929         | 0.09%          | 0.003%        |
| 29        | 4.559       | 4.530        | 4.595      | VV       | 819            | 15005        | 0.22%          | 0.007%        |
| 30        | 4.609       | 4.595        | 4.621      | VV       | 621            | 6144         | 0.09%          | 0.003%        |
| 31        | 4.639       | 4.621        | 4.687      | VV       | 684            | 14558        | 0.22%          | 0.007%        |
| 32        | 4.715       | 4.687        | 4.746      | VV       | 934            | 14282        | 0.21%          | 0.007%        |
| 33        | 4.782       | 4.746        | 4.801      | VV       | 3156           | 45104        | 0.67%          | 0.022%        |
| 34        | 4.810       | 4.801        | 4.829      | VV       | 1466           | 16379        | 0.24%          | 0.008%        |
| 35        | 4.845       | 4.829        | 4.878      | VV       | 760            | 15587        | 0.23%          | 0.008%        |
| 36        | 4.893       | 4.878        | 4.920      | VV       | 580            | 10914        | 0.16%          | 0.005%        |

| rteres.txt |       |       |       |    |       |        |       |        |
|------------|-------|-------|-------|----|-------|--------|-------|--------|
| 37         | 4.936 | 4.920 | 4.954 | VV | 600   | 9297   | 0.14% | 0.005% |
| 38         | 4.972 | 4.954 | 4.998 | VV | 1151  | 15930  | 0.24% | 0.008% |
| 39         | 5.013 | 4.998 | 5.025 | VV | 567   | 6967   | 0.10% | 0.003% |
| 40         | 5.040 | 5.025 | 5.058 | VV | 1196  | 13768  | 0.20% | 0.007% |
| 41         | 5.076 | 5.058 | 5.100 | VV | 326   | 7067   | 0.10% | 0.003% |
| 42         | 5.109 | 5.100 | 5.139 | VV | 419   | 5581   | 0.08% | 0.003% |
| 43         | 5.190 | 5.139 | 5.212 | PV | 935   | 18236  | 0.27% | 0.009% |
| 44         | 5.214 | 5.212 | 5.224 | VV | 475   | 2593   | 0.04% | 0.001% |
| 45         | 5.253 | 5.224 | 5.265 | VV | 660   | 10909  | 0.16% | 0.005% |
| 46         | 5.284 | 5.265 | 5.319 | VV | 1093  | 23904  | 0.35% | 0.012% |
| 47         | 5.329 | 5.319 | 5.346 | VV | 634   | 5872   | 0.09% | 0.003% |
| 48         | 5.365 | 5.346 | 5.381 | PV | 728   | 9219   | 0.14% | 0.005% |
| 49         | 5.414 | 5.381 | 5.442 | VV | 786   | 21570  | 0.32% | 0.011% |
| 50         | 5.466 | 5.442 | 5.477 | VV | 661   | 11547  | 0.17% | 0.006% |
| 51         | 5.492 | 5.477 | 5.510 | VV | 1252  | 15871  | 0.24% | 0.008% |
| 52         | 5.518 | 5.510 | 5.532 | VV | 538   | 5851   | 0.09% | 0.003% |
| 53         | 5.544 | 5.532 | 5.569 | VV | 784   | 8895   | 0.13% | 0.004% |
| 54         | 5.590 | 5.569 | 5.610 | PV | 1272  | 18780  | 0.28% | 0.009% |
| 55         | 5.628 | 5.610 | 5.647 | VV | 2480  | 29896  | 0.44% | 0.015% |
| 56         | 5.662 | 5.647 | 5.700 | VV | 1303  | 19836  | 0.29% | 0.010% |
| 57         | 5.723 | 5.700 | 5.757 | VV | 434   | 9032   | 0.13% | 0.004% |
| 58         | 5.783 | 5.757 | 5.817 | VV | 2388  | 32349  | 0.48% | 0.016% |
| 59         | 5.829 | 5.817 | 5.845 | VV | 575   | 6510   | 0.10% | 0.003% |
| 60         | 5.866 | 5.845 | 5.882 | VV | 1454  | 24509  | 0.36% | 0.012% |
| 61         | 5.895 | 5.882 | 5.915 | VV | 1788  | 24880  | 0.37% | 0.012% |
| 62         | 5.928 | 5.915 | 5.949 | VV | 872   | 12504  | 0.19% | 0.006% |
| 63         | 5.994 | 5.949 | 6.025 | VV | 849   | 22952  | 0.34% | 0.011% |
| 64         | 6.044 | 6.025 | 6.069 | VV | 847   | 10277  | 0.15% | 0.005% |
| 65         | 6.091 | 6.069 | 6.105 | PV | 1103  | 14981  | 0.22% | 0.007% |
| 66         | 6.116 | 6.105 | 6.125 | VV | 939   | 8816   | 0.13% | 0.004% |
| 67         | 6.148 | 6.125 | 6.176 | VV | 14431 | 155904 | 2.31% | 0.077% |
| 68         | 6.190 | 6.176 | 6.210 | VV | 1505  | 24842  | 0.37% | 0.012% |
| 69         | 6.247 | 6.210 | 6.259 | VV | 1054  | 23619  | 0.35% | 0.012% |
| 70         | 6.274 | 6.259 | 6.300 | VV | 1444  | 26155  | 0.39% | 0.013% |
| 71         | 6.319 | 6.300 | 6.347 | VV | 1413  | 31612  | 0.47% | 0.016% |
| 72         | 6.359 | 6.347 | 6.397 | VV | 1083  | 26698  | 0.40% | 0.013% |
| 73         | 6.411 | 6.397 | 6.430 | VV | 1462  | 19077  | 0.28% | 0.009% |
| 74         | 6.448 | 6.430 | 6.469 | VV | 930   | 14361  | 0.21% | 0.007% |
| 75         | 6.507 | 6.469 | 6.540 | VV | 1514  | 46087  | 0.68% | 0.023% |
| 76         | 6.562 | 6.540 | 6.579 | VV | 2425  | 34303  | 0.51% | 0.017% |
| 77         | 6.586 | 6.579 | 6.619 | VV | 1117  | 15658  | 0.23% | 0.008% |
| 78         | 6.632 | 6.619 | 6.662 | VV | 737   | 12663  | 0.19% | 0.006% |
| 79         | 6.680 | 6.662 | 6.690 | VV | 798   | 11146  | 0.17% | 0.005% |
| 80         | 6.710 | 6.690 | 6.731 | VV | 2509  | 33156  | 0.49% | 0.016% |
| 81         | 6.765 | 6.731 | 6.807 | VV | 1763  | 37737  | 0.56% | 0.019% |
| 82         | 6.841 | 6.807 | 6.864 | VV | 1856  | 28628  | 0.42% | 0.014% |
| 83         | 6.891 | 6.864 | 6.930 | PV | 1266  | 32430  | 0.48% | 0.016% |
| 84         | 6.973 | 6.930 | 6.992 | VV | 2541  | 40618  | 0.60% | 0.020% |
| 85         | 7.036 | 6.992 | 7.055 | VV | 1232  | 30741  | 0.46% | 0.015% |
| 86         | 7.072 | 7.055 | 7.107 | VV | 1975  | 45484  | 0.67% | 0.022% |
| 87         | 7.124 | 7.107 | 7.150 | VV | 2204  | 40814  | 0.61% | 0.020% |
| 88         | 7.198 | 7.150 | 7.242 | VV | 12240 | 180169 | 2.67% | 0.089% |
| 89         | 7.261 | 7.242 | 7.277 | VV | 3284  | 43784  | 0.65% | 0.022% |

|     |       |       |       |    |            |        |       |        |
|-----|-------|-------|-------|----|------------|--------|-------|--------|
|     |       |       |       |    | rteres.txt |        |       |        |
| 90  | 7.286 | 7.277 | 7.309 | VV | 2358       | 33479  | 0.50% | 0.017% |
| 91  | 7.331 | 7.309 | 7.356 | VV | 14240      | 156479 | 2.32% | 0.077% |
| 92  | 7.368 | 7.356 | 7.389 | VV | 1870       | 26502  | 0.39% | 0.013% |
| 93  | 7.411 | 7.389 | 7.433 | VV | 972        | 19085  | 0.28% | 0.009% |
| 94  | 7.480 | 7.433 | 7.518 | VV | 4452       | 90671  | 1.35% | 0.045% |
| 95  | 7.534 | 7.518 | 7.554 | VV | 1566       | 24166  | 0.36% | 0.012% |
| 96  | 7.566 | 7.554 | 7.606 | VV | 1383       | 29909  | 0.44% | 0.015% |
| 97  | 7.623 | 7.606 | 7.632 | VV | 718        | 9256   | 0.14% | 0.005% |
| 98  | 7.664 | 7.632 | 7.699 | VV | 2640       | 62545  | 0.93% | 0.031% |
| 99  | 7.714 | 7.699 | 7.734 | VV | 1480       | 17249  | 0.26% | 0.009% |
| 100 | 7.879 | 7.863 | 7.900 | VV | 2417       | 43756  | 0.65% | 0.022% |
| 101 | 7.918 | 7.900 | 7.944 | VV | 4615       | 81726  | 1.21% | 0.040% |
| 102 | 7.955 | 7.944 | 7.981 | VV | 2066       | 37666  | 0.56% | 0.019% |
| 103 | 8.000 | 7.981 | 8.021 | VV | 2403       | 36904  | 0.55% | 0.018% |
| 104 | 8.047 | 8.021 | 8.057 | VV | 2320       | 36567  | 0.54% | 0.018% |
| 105 | 8.075 | 8.057 | 8.083 | VV | 3591       | 47147  | 0.70% | 0.023% |
| 106 | 8.097 | 8.083 | 8.132 | VV | 4437       | 89425  | 1.33% | 0.044% |
| 107 | 8.169 | 8.132 | 8.223 | VV | 10701      | 239323 | 3.55% | 0.118% |
| 108 | 8.239 | 8.223 | 8.249 | VV | 2345       | 33466  | 0.50% | 0.017% |
| 109 | 8.286 | 8.249 | 8.302 | VV | 18016      | 233259 | 3.46% | 0.115% |
| 110 | 8.314 | 8.302 | 8.329 | VV | 11011      | 123262 | 1.83% | 0.061% |
| 111 | 8.344 | 8.329 | 8.382 | VV | 10832      | 162665 | 2.41% | 0.080% |
| 112 | 8.410 | 8.382 | 8.427 | VV | 19203      | 225945 | 3.35% | 0.111% |
| 113 | 8.441 | 8.427 | 8.450 | VV | 6733       | 86316  | 1.28% | 0.043% |
| 114 | 8.472 | 8.450 | 8.502 | VV | 24057      | 324429 | 4.81% | 0.160% |
| 115 | 8.520 | 8.502 | 8.547 | VV | 5403       | 92114  | 1.37% | 0.045% |
| 116 | 8.561 | 8.547 | 8.612 | VV | 4942       | 111094 | 1.65% | 0.055% |
| 117 | 8.764 | 8.738 | 8.791 | VV | 27921      | 341455 | 5.07% | 0.168% |
| 118 | 8.811 | 8.791 | 8.845 | VV | 6230       | 135079 | 2.00% | 0.067% |
| 119 | 8.879 | 8.845 | 8.907 | VV | 9909       | 162918 | 2.42% | 0.080% |
| 120 | 8.925 | 8.907 | 8.941 | VV | 2836       | 44184  | 0.66% | 0.022% |
| 121 | 8.957 | 8.941 | 8.973 | VV | 2636       | 43075  | 0.64% | 0.021% |
| 122 | 9.001 | 8.973 | 9.018 | VV | 7190       | 116481 | 1.73% | 0.057% |
| 123 | 9.037 | 9.018 | 9.062 | VV | 13912      | 188306 | 2.79% | 0.093% |
| 124 | 9.072 | 9.062 | 9.092 | VV | 3387       | 54207  | 0.80% | 0.027% |
| 125 | 9.117 | 9.092 | 9.137 | VV | 4199       | 90448  | 1.34% | 0.045% |
| 126 | 9.165 | 9.137 | 9.189 | VV | 12669      | 187710 | 2.78% | 0.093% |
| 127 | 9.210 | 9.189 | 9.232 | VV | 8657       | 118391 | 1.76% | 0.058% |
| 128 | 9.244 | 9.232 | 9.256 | VV | 2431       | 31919  | 0.47% | 0.016% |
| 129 | 9.269 | 9.256 | 9.291 | VV | 2690       | 41108  | 0.61% | 0.020% |
| 130 | 9.325 | 9.291 | 9.343 | VV | 8690       | 119477 | 1.77% | 0.059% |
| 131 | 9.357 | 9.343 | 9.387 | VV | 6068       | 86134  | 1.28% | 0.042% |
| 132 | 9.411 | 9.387 | 9.428 | VV | 5174       | 78198  | 1.16% | 0.039% |
| 133 | 9.460 | 9.428 | 9.480 | VV | 7313       | 128320 | 1.90% | 0.063% |
| 134 | 9.503 | 9.480 | 9.518 | VV | 4697       | 72746  | 1.08% | 0.036% |
| 135 | 9.545 | 9.518 | 9.592 | VV | 39913      | 557749 | 8.27% | 0.275% |
| 136 | 9.622 | 9.592 | 9.650 | VV | 9347       | 177220 | 2.63% | 0.087% |
| 137 | 9.664 | 9.650 | 9.675 | VV | 5345       | 59653  | 0.88% | 0.029% |
| 138 | 9.693 | 9.675 | 9.709 | VV | 9440       | 130585 | 1.94% | 0.064% |
| 139 | 9.718 | 9.709 | 9.735 | VV | 6168       | 72878  | 1.08% | 0.036% |
| 140 | 9.754 | 9.735 | 9.790 | VV | 5495       | 107407 | 1.59% | 0.053% |
| 141 | 9.807 | 9.790 | 9.837 | VV | 3338       | 61849  | 0.92% | 0.030% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 142        | 9.864  | 9.837  | 9.887  | VV | 9690   | 145716  | 2.16%  | 0.072% |
| 143        | 9.910  | 9.887  | 9.920  | VV | 3875   | 70987   | 1.05%  | 0.035% |
| 144        | 9.938  | 9.920  | 9.952  | VV | 12498  | 151470  | 2.25%  | 0.075% |
| 145        | 9.965  | 9.952  | 10.010 | VV | 9643   | 170712  | 2.53%  | 0.084% |
| 146        | 10.027 | 10.010 | 10.040 | VV | 2786   | 40594   | 0.60%  | 0.020% |
| 147        | 10.055 | 10.040 | 10.090 | VV | 2041   | 35208   | 0.52%  | 0.017% |
| 148        | 10.120 | 10.090 | 10.177 | PV | 2745   | 56820   | 0.84%  | 0.028% |
| 149        | 10.216 | 10.177 | 10.239 | VV | 1132   | 17494   | 0.26%  | 0.009% |
| 150        | 10.282 | 10.239 | 10.305 | VV | 4770   | 82495   | 1.22%  | 0.041% |
| 151        | 10.325 | 10.305 | 10.355 | VV | 7905   | 120905  | 1.79%  | 0.060% |
| 152        | 10.390 | 10.355 | 10.402 | VV | 6634   | 101224  | 1.50%  | 0.050% |
| 153        | 10.421 | 10.402 | 10.444 | VV | 14688  | 206464  | 3.06%  | 0.102% |
| 154        | 10.463 | 10.444 | 10.497 | VV | 12170  | 162584  | 2.41%  | 0.080% |
| 155        | 10.539 | 10.497 | 10.574 | VV | 10867  | 191433  | 2.84%  | 0.094% |
| 156        | 10.598 | 10.574 | 10.642 | VV | 8001   | 156295  | 2.32%  | 0.077% |
| 157        | 10.672 | 10.642 | 10.690 | VV | 15851  | 209490  | 3.11%  | 0.103% |
| 158        | 10.706 | 10.690 | 10.720 | VV | 9123   | 110365  | 1.64%  | 0.054% |
| 159        | 10.745 | 10.720 | 10.783 | VV | 25086  | 408437  | 6.06%  | 0.201% |
| 160        | 10.811 | 10.783 | 10.824 | VV | 2749   | 53604   | 0.80%  | 0.026% |
| 161        | 10.840 | 10.824 | 10.857 | VV | 5103   | 56438   | 0.84%  | 0.028% |
| 162        | 10.875 | 10.857 | 10.893 | VV | 2153   | 35695   | 0.53%  | 0.018% |
| 163        | 10.945 | 10.893 | 10.993 | VV | 281861 | 3058706 | 45.38% | 1.508% |
| 164        | 11.018 | 10.993 | 11.105 | VV | 83882  | 1033164 | 15.33% | 0.509% |
| 165        | 11.122 | 11.105 | 11.140 | VV | 2249   | 30543   | 0.45%  | 0.015% |
| 166        | 11.151 | 11.140 | 11.166 | VV | 1317   | 11323   | 0.17%  | 0.006% |
| 167        | 11.194 | 11.166 | 11.210 | PV | 2169   | 31138   | 0.46%  | 0.015% |
| 168        | 11.231 | 11.210 | 11.270 | VV | 14044  | 205638  | 3.05%  | 0.101% |
| 169        | 11.300 | 11.270 | 11.317 | VV | 3466   | 64088   | 0.95%  | 0.032% |
| 170        | 11.337 | 11.317 | 11.351 | VV | 5183   | 73269   | 1.09%  | 0.036% |
| 171        | 11.371 | 11.351 | 11.394 | VV | 17417  | 202400  | 3.00%  | 0.100% |
| 172        | 11.430 | 11.394 | 11.439 | VV | 4016   | 76337   | 1.13%  | 0.038% |
| 173        | 11.466 | 11.439 | 11.497 | VV | 25287  | 361644  | 5.37%  | 0.178% |
| 174        | 11.533 | 11.497 | 11.554 | VV | 7563   | 100380  | 1.49%  | 0.050% |
| 175        | 11.593 | 11.554 | 11.614 | VV | 10034  | 139944  | 2.08%  | 0.069% |
| 176        | 11.632 | 11.614 | 11.651 | VV | 3736   | 53945   | 0.80%  | 0.027% |
| 177        | 11.699 | 11.651 | 11.721 | VV | 276869 | 2909645 | 43.17% | 1.435% |
| 178        | 11.742 | 11.721 | 11.757 | VV | 47504  | 545628  | 8.09%  | 0.269% |
| 179        | 11.773 | 11.757 | 11.815 | VV | 59625  | 674683  | 10.01% | 0.333% |
| 180        | 11.858 | 11.815 | 11.876 | VV | 67947  | 963553  | 14.30% | 0.475% |
| 181        | 11.890 | 11.876 | 11.904 | VV | 35251  | 394869  | 5.86%  | 0.195% |
| 182        | 11.921 | 11.904 | 11.957 | VV | 47149  | 567765  | 8.42%  | 0.280% |
| 183        | 12.038 | 11.957 | 12.062 | PV | 15966  | 275586  | 4.09%  | 0.136% |
| 184        | 12.092 | 12.062 | 12.129 | VV | 106467 | 1373245 | 20.37% | 0.677% |
| 185        | 12.140 | 12.129 | 12.183 | VV | 5873   | 102071  | 1.51%  | 0.050% |
| 186        | 12.208 | 12.183 | 12.229 | VV | 28302  | 319678  | 4.74%  | 0.158% |
| 187        | 12.241 | 12.229 | 12.255 | VV | 5758   | 64549   | 0.96%  | 0.032% |
| 188        | 12.285 | 12.255 | 12.329 | VV | 13681  | 253013  | 3.75%  | 0.125% |
| 189        | 12.353 | 12.329 | 12.371 | VV | 5060   | 70811   | 1.05%  | 0.035% |
| 190        | 12.387 | 12.371 | 12.400 | VV | 3067   | 39472   | 0.59%  | 0.019% |
| 191        | 12.418 | 12.400 | 12.434 | VV | 6882   | 91674   | 1.36%  | 0.045% |
| 192        | 12.458 | 12.434 | 12.469 | VV | 7306   | 111963  | 1.66%  | 0.055% |
| 193        | 12.482 | 12.469 | 12.509 | VV | 7008   | 117171  | 1.74%  | 0.058% |
| 194        | 12.529 | 12.509 | 12.571 | VV | 16346  | 282707  | 4.19%  | 0.139% |

|            |        |        |        |    |        |         |                |
|------------|--------|--------|--------|----|--------|---------|----------------|
| rteres.txt |        |        |        |    |        |         |                |
| 195        | 12.599 | 12.571 | 12.618 | PV | 15327  | 223877  | 3.32% 0.110%   |
| 196        | 12.640 | 12.618 | 12.658 | VV | 40441  | 523736  | 7.77% 0.258%   |
| 197        | 12.676 | 12.658 | 12.694 | VV | 33456  | 453261  | 6.72% 0.224%   |
| 198        | 12.704 | 12.694 | 12.722 | VV | 15224  | 192251  | 2.85% 0.095%   |
| 199        | 12.763 | 12.722 | 12.805 | VV | 527534 | 6018518 | 89.29% 2.968%  |
| 200        | 12.823 | 12.805 | 12.837 | VV | 3332   | 36060   | 0.53% 0.018%   |
| 201        | 12.854 | 12.837 | 12.869 | VV | 3188   | 38874   | 0.58% 0.019%   |
| 202        | 12.905 | 12.869 | 12.925 | VV | 13637  | 307366  | 4.56% 0.152%   |
| 203        | 12.944 | 12.925 | 13.028 | VV | 22187  | 591549  | 8.78% 0.292%   |
| 204        | 13.062 | 13.028 | 13.084 | VV | 451848 | 5119089 | 75.95% 2.524%  |
| 205        | 13.112 | 13.084 | 13.144 | VV | 346208 | 6740470 | 100.00% 3.324% |
| 206        | 13.165 | 13.144 | 13.189 | VV | 479428 | 5688876 | 84.40% 2.805%  |
| 207        | 13.197 | 13.189 | 13.215 | VV | 28168  | 316745  | 4.70% 0.156%   |
| 208        | 13.226 | 13.215 | 13.243 | VV | 15754  | 185777  | 2.76% 0.092%   |
| 209        | 13.259 | 13.243 | 13.272 | VV | 12264  | 149328  | 2.22% 0.074%   |
| 210        | 13.286 | 13.272 | 13.303 | VV | 14794  | 173703  | 2.58% 0.086%   |
| 211        | 13.338 | 13.303 | 13.365 | VV | 63704  | 1001119 | 14.85% 0.494%  |
| 212        | 13.383 | 13.365 | 13.425 | VV | 12196  | 214156  | 3.18% 0.106%   |
| 213        | 13.451 | 13.425 | 13.489 | PV | 14281  | 275194  | 4.08% 0.136%   |
| 214        | 13.513 | 13.489 | 13.539 | VV | 36343  | 532161  | 7.90% 0.262%   |
| 215        | 13.548 | 13.539 | 13.580 | VV | 5073   | 69138   | 1.03% 0.034%   |
| 216        | 13.643 | 13.580 | 13.686 | VV | 84435  | 1452006 | 21.54% 0.716%  |
| 217        | 13.707 | 13.686 | 13.724 | VV | 9999   | 136358  | 2.02% 0.067%   |
| 218        | 13.750 | 13.724 | 13.772 | VV | 63338  | 792852  | 11.76% 0.391%  |
| 219        | 13.792 | 13.772 | 13.815 | VV | 39533  | 518031  | 7.69% 0.255%   |
| 220        | 13.828 | 13.815 | 13.847 | VV | 12426  | 160461  | 2.38% 0.079%   |
| 221        | 13.872 | 13.847 | 13.889 | VV | 22385  | 361001  | 5.36% 0.178%   |
| 222        | 13.920 | 13.889 | 13.942 | VV | 39353  | 655150  | 9.72% 0.323%   |
| 223        | 13.961 | 13.942 | 14.002 | VV | 33647  | 460389  | 6.83% 0.227%   |
| 224        | 14.016 | 14.002 | 14.025 | VV | 3994   | 46100   | 0.68% 0.023%   |
| 225        | 14.036 | 14.025 | 14.054 | VV | 5110   | 57531   | 0.85% 0.028%   |
| 226        | 14.081 | 14.054 | 14.098 | VV | 5087   | 90488   | 1.34% 0.045%   |
| 227        | 14.110 | 14.098 | 14.128 | VV | 4070   | 61709   | 0.92% 0.030%   |
| 228        | 14.150 | 14.128 | 14.162 | VV | 6378   | 91520   | 1.36% 0.045%   |
| 229        | 14.170 | 14.162 | 14.194 | VV | 5815   | 69826   | 1.04% 0.034%   |
| 230        | 14.201 | 14.194 | 14.207 | VV | 955    | 6693    | 0.10% 0.003%   |
| 231        | 14.229 | 14.207 | 14.252 | VV | 4123   | 60537   | 0.90% 0.030%   |
| 232        | 14.278 | 14.252 | 14.293 | VV | 3169   | 58156   | 0.86% 0.029%   |
| 233        | 14.343 | 14.293 | 14.361 | VV | 17402  | 455164  | 6.75% 0.224%   |
| 234        | 14.381 | 14.361 | 14.410 | VV | 30944  | 470055  | 6.97% 0.232%   |
| 235        | 14.432 | 14.410 | 14.461 | VV | 18546  | 338845  | 5.03% 0.167%   |
| 236        | 14.484 | 14.461 | 14.525 | VV | 19278  | 387426  | 5.75% 0.191%   |
| 237        | 14.554 | 14.525 | 14.589 | VV | 43051  | 702485  | 10.42% 0.346%  |
| 238        | 14.617 | 14.589 | 14.642 | VV | 60811  | 948508  | 14.07% 0.468%  |
| 239        | 14.660 | 14.642 | 14.670 | VV | 17845  | 237573  | 3.52% 0.117%   |
| 240        | 14.684 | 14.670 | 14.715 | VV | 26636  | 352234  | 5.23% 0.174%   |
| 241        | 14.739 | 14.715 | 14.757 | VV | 6376   | 99553   | 1.48% 0.049%   |
| 242        | 14.802 | 14.757 | 14.842 | VV | 15928  | 372856  | 5.53% 0.184%   |
| 243        | 14.885 | 14.842 | 14.902 | PV | 11858  | 158978  | 2.36% 0.078%   |
| 244        | 14.932 | 14.902 | 14.952 | VV | 244408 | 3062334 | 45.43% 1.510%  |
| 245        | 14.974 | 14.952 | 15.002 | VV | 254502 | 3002466 | 44.54% 1.481%  |
| 246        | 15.017 | 15.002 | 15.042 | VV | 7243   | 107872  | 1.60% 0.053%   |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 247        | 15.093 | 15.042 | 15.143 | VV | 61084  | 1048975 | 15.56% | 0.517% |
| 248        | 15.170 | 15.143 | 15.205 | VV | 11185  | 229204  | 3.40%  | 0.113% |
| 249        | 15.235 | 15.205 | 15.257 | VV | 16156  | 272022  | 4.04%  | 0.134% |
| 250        | 15.276 | 15.257 | 15.332 | VV | 18604  | 436076  | 6.47%  | 0.215% |
| 251        | 15.358 | 15.332 | 15.404 | VV | 20345  | 549849  | 8.16%  | 0.271% |
| 252        | 15.411 | 15.404 | 15.457 | VV | 8499   | 131354  | 1.95%  | 0.065% |
| 253        | 15.487 | 15.457 | 15.526 | PV | 17401  | 348594  | 5.17%  | 0.172% |
| 254        | 15.552 | 15.526 | 15.577 | VV | 16204  | 318626  | 4.73%  | 0.157% |
| 255        | 15.600 | 15.577 | 15.621 | VV | 55336  | 713173  | 10.58% | 0.352% |
| 256        | 15.639 | 15.621 | 15.669 | VV | 26571  | 399428  | 5.93%  | 0.197% |
| 257        | 15.687 | 15.669 | 15.715 | VV | 15989  | 274482  | 4.07%  | 0.135% |
| 258        | 15.760 | 15.715 | 15.800 | VV | 34746  | 967030  | 14.35% | 0.477% |
| 259        | 15.835 | 15.800 | 15.862 | VV | 15880  | 274851  | 4.08%  | 0.136% |
| 260        | 15.878 | 15.862 | 15.896 | VV | 5008   | 70962   | 1.05%  | 0.035% |
| 261        | 15.920 | 15.896 | 15.945 | VV | 11354  | 165438  | 2.45%  | 0.082% |
| 262        | 15.986 | 15.945 | 16.010 | VV | 21027  | 373853  | 5.55%  | 0.184% |
| 263        | 16.032 | 16.010 | 16.060 | VV | 11541  | 215546  | 3.20%  | 0.106% |
| 264        | 16.102 | 16.060 | 16.117 | VV | 3158   | 56791   | 0.84%  | 0.028% |
| 265        | 16.132 | 16.117 | 16.155 | VV | 2730   | 33797   | 0.50%  | 0.017% |
| 266        | 16.192 | 16.155 | 16.217 | VV | 11010  | 220397  | 3.27%  | 0.109% |
| 267        | 16.233 | 16.217 | 16.252 | VV | 8169   | 122684  | 1.82%  | 0.061% |
| 268        | 16.277 | 16.252 | 16.324 | VV | 17007  | 409124  | 6.07%  | 0.202% |
| 269        | 16.368 | 16.324 | 16.380 | VV | 12329  | 282483  | 4.19%  | 0.139% |
| 270        | 16.398 | 16.380 | 16.420 | VV | 19105  | 305526  | 4.53%  | 0.151% |
| 271        | 16.431 | 16.420 | 16.447 | VV | 8452   | 114313  | 1.70%  | 0.056% |
| 272        | 16.494 | 16.447 | 16.510 | VV | 251900 | 3826218 | 56.76% | 1.887% |
| 273        | 16.518 | 16.510 | 16.552 | VV | 116640 | 1304043 | 19.35% | 0.643% |
| 274        | 16.620 | 16.552 | 16.642 | VV | 52814  | 974670  | 14.46% | 0.481% |
| 275        | 16.654 | 16.642 | 16.668 | VV | 14439  | 197183  | 2.93%  | 0.097% |
| 276        | 16.679 | 16.668 | 16.694 | VV | 12680  | 165212  | 2.45%  | 0.081% |
| 277        | 16.707 | 16.694 | 16.724 | VV | 10093  | 160403  | 2.38%  | 0.079% |
| 278        | 16.744 | 16.724 | 16.754 | VV | 15703  | 210490  | 3.12%  | 0.104% |
| 279        | 16.776 | 16.754 | 16.790 | VV | 39368  | 595868  | 8.84%  | 0.294% |
| 280        | 16.814 | 16.790 | 16.842 | VV | 148704 | 2127776 | 31.57% | 1.049% |
| 281        | 16.874 | 16.842 | 16.907 | VV | 205811 | 2770818 | 41.11% | 1.366% |
| 282        | 16.934 | 16.907 | 16.951 | VV | 36269  | 590408  | 8.76%  | 0.291% |
| 283        | 16.971 | 16.951 | 16.997 | VV | 75133  | 1106899 | 16.42% | 0.546% |
| 284        | 17.017 | 16.997 | 17.055 | VV | 20600  | 520279  | 7.72%  | 0.257% |
| 285        | 17.120 | 17.055 | 17.155 | VV | 24806  | 1060183 | 15.73% | 0.523% |
| 286        | 17.172 | 17.155 | 17.188 | VV | 20007  | 318100  | 4.72%  | 0.157% |
| 287        | 17.230 | 17.188 | 17.294 | VV | 33814  | 1605157 | 23.81% | 0.792% |
| 288        | 17.334 | 17.294 | 17.350 | VV | 19609  | 599201  | 8.89%  | 0.295% |
| 289        | 17.382 | 17.350 | 17.420 | VV | 52035  | 1290090 | 19.14% | 0.636% |
| 290        | 17.459 | 17.420 | 17.495 | VV | 23411  | 893892  | 13.26% | 0.441% |
| 291        | 17.527 | 17.495 | 17.552 | VV | 36427  | 860078  | 12.76% | 0.424% |
| 292        | 17.569 | 17.552 | 17.617 | VV | 23391  | 690694  | 10.25% | 0.341% |
| 293        | 17.652 | 17.617 | 17.702 | VV | 19415  | 846554  | 12.56% | 0.417% |
| 294        | 17.739 | 17.702 | 17.764 | VV | 20966  | 644362  | 9.56%  | 0.318% |
| 295        | 17.819 | 17.764 | 17.879 | VV | 53770  | 1927877 | 28.60% | 0.951% |
| 296        | 17.887 | 17.879 | 17.900 | VV | 18647  | 231269  | 3.43%  | 0.114% |
| 297        | 17.957 | 17.900 | 17.967 | VV | 32799  | 946157  | 14.04% | 0.467% |
| 298        | 17.985 | 17.967 | 18.005 | VV | 46342  | 867159  | 12.86% | 0.428% |
| 299        | 18.013 | 18.005 | 18.080 | VV | 36596  | 1247896 | 18.51% | 0.615% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 300 | 18.086 | 18.080 | 18.117 | VV | 23167      | 472161  | 7.00%  | 0.233% |
| 301 | 18.149 | 18.117 | 18.169 | VV | 59080      | 1148367 | 17.04% | 0.566% |
| 302 | 18.182 | 18.169 | 18.210 | VV | 38086      | 790010  | 11.72% | 0.390% |
| 303 | 18.244 | 18.210 | 18.269 | VV | 163409     | 2718993 | 40.34% | 1.341% |
| 304 | 18.281 | 18.269 | 18.309 | VV | 41462      | 858960  | 12.74% | 0.424% |
| 305 | 18.323 | 18.309 | 18.334 | VV | 35419      | 505355  | 7.50%  | 0.249% |
| 306 | 18.371 | 18.334 | 18.389 | VV | 56693      | 1486479 | 22.05% | 0.733% |
| 307 | 18.406 | 18.389 | 18.465 | VV | 47573      | 1507920 | 22.37% | 0.744% |
| 308 | 18.501 | 18.465 | 18.525 | VV | 138361     | 2242309 | 33.27% | 1.106% |
| 309 | 18.545 | 18.525 | 18.558 | VV | 28910      | 532942  | 7.91%  | 0.263% |
| 310 | 18.580 | 18.558 | 18.605 | VV | 31280      | 837275  | 12.42% | 0.413% |
| 311 | 18.633 | 18.605 | 18.694 | VV | 68381      | 2156138 | 31.99% | 1.063% |
| 312 | 18.773 | 18.694 | 18.795 | VV | 41732      | 1838554 | 27.28% | 0.907% |
| 313 | 18.820 | 18.795 | 18.870 | VV | 44099      | 1536894 | 22.80% | 0.758% |
| 314 | 18.876 | 18.870 | 18.893 | VV | 30447      | 402604  | 5.97%  | 0.199% |
| 315 | 18.926 | 18.893 | 18.990 | VV | 41803      | 2020695 | 29.98% | 0.996% |
| 316 | 19.016 | 18.990 | 19.031 | VV | 44470      | 988251  | 14.66% | 0.487% |
| 317 | 19.050 | 19.031 | 19.082 | VV | 48171      | 1253330 | 18.59% | 0.618% |
| 318 | 19.100 | 19.082 | 19.127 | VV | 45452      | 1037817 | 15.40% | 0.512% |
| 319 | 19.173 | 19.127 | 19.227 | VV | 47214      | 2229973 | 33.08% | 1.100% |
| 320 | 19.253 | 19.227 | 19.272 | VV | 35090      | 885234  | 13.13% | 0.437% |
| 321 | 19.300 | 19.272 | 19.310 | VV | 36062      | 776647  | 11.52% | 0.383% |
| 322 | 19.335 | 19.310 | 19.387 | VV | 35901      | 1585675 | 23.52% | 0.782% |
| 323 | 19.433 | 19.387 | 19.459 | VV | 50823      | 1733970 | 25.72% | 0.855% |
| 324 | 19.482 | 19.459 | 19.499 | VV | 47569      | 1028378 | 15.26% | 0.507% |
| 325 | 19.511 | 19.499 | 19.525 | VV | 41295      | 633913  | 9.40%  | 0.313% |
| 326 | 19.578 | 19.525 | 19.610 | VV | 48532      | 2187661 | 32.46% | 1.079% |
| 327 | 19.654 | 19.610 | 19.692 | VV | 78420      | 2713475 | 40.26% | 1.338% |
| 328 | 19.721 | 19.692 | 19.757 | VV | 86766      | 2453191 | 36.39% | 1.210% |
| 329 | 19.807 | 19.757 | 19.848 | VV | 74961      | 3233777 | 47.98% | 1.595% |
| 330 | 19.865 | 19.848 | 19.902 | VV | 60219      | 1685146 | 25.00% | 0.831% |
| 331 | 19.936 | 19.902 | 19.972 | VV | 56966      | 2194861 | 32.56% | 1.082% |
| 332 | 20.035 | 19.972 | 20.069 | VV | 101037     | 3880849 | 57.58% | 1.914% |
| 333 | 20.101 | 20.069 | 20.122 | VV | 77522      | 2118691 | 31.43% | 1.045% |
| 334 | 20.134 | 20.122 | 20.154 | VV | 65277      | 1191360 | 17.67% | 0.588% |
| 335 | 20.175 | 20.154 | 20.209 | VV | 74616      | 2202870 | 32.68% | 1.086% |
| 336 | 20.258 | 20.209 | 20.279 | VV | 67196      | 2626332 | 38.96% | 1.295% |
| 337 | 20.297 | 20.279 | 20.306 | VV | 65891      | 1056934 | 15.68% | 0.521% |
| 338 | 20.358 | 20.306 | 20.370 | VV | 72843      | 2621758 | 38.90% | 1.293% |
| 339 | 20.393 | 20.370 | 20.424 | VV | 74077      | 2218669 | 32.92% | 1.094% |
| 340 | 20.435 | 20.424 | 20.475 | VV | 65074      | 1914751 | 28.41% | 0.944% |
| 341 | 20.485 | 20.475 | 20.501 | VV | 60920      | 893918  | 13.26% | 0.441% |
| 342 | 20.530 | 20.501 | 20.579 | VV | 70148      | 2879177 | 42.71% | 1.420% |
| 343 | 20.599 | 20.579 | 20.653 | VV | 61416      | 2508789 | 37.22% | 1.237% |
| 344 | 20.677 | 20.653 | 20.714 | VV | 57923      | 2042047 | 30.30% | 1.007% |
| 345 | 20.728 | 20.714 | 20.749 | VV | 53143      | 1068120 | 15.85% | 0.527% |
| 346 | 20.764 | 20.749 | 20.774 | VV | 51980      | 753254  | 11.18% | 0.371% |
| 347 | 20.786 | 20.774 | 20.835 | VV | 51281      | 1743933 | 25.87% | 0.860% |
| 348 | 20.846 | 20.835 | 20.875 | VV | 47003      | 1070417 | 15.88% | 0.528% |
| 349 | 20.914 | 20.875 | 20.987 | VV | 49441      | 2883128 | 42.77% | 1.422% |
| 350 | 21.001 | 20.987 | 21.015 | VV | 39154      | 642530  | 9.53%  | 0.317% |
| 351 | 21.052 | 21.015 | 21.062 | VV | 38086      | 1036865 | 15.38% | 0.511% |

|     |        |        |        |    |                                   |         |        |        |
|-----|--------|--------|--------|----|-----------------------------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt                        |         |        |        |
| 352 | 21.078 | 21.062 | 21.135 | VV | 40106                             | 1652263 | 24.51% | 0.815% |
| 353 | 21.177 | 21.135 | 21.223 | VV | 36245                             | 1723284 | 25.57% | 0.850% |
| 354 | 21.246 | 21.223 | 21.255 | VV | 31980                             | 590725  | 8.76%  | 0.291% |
| 355 | 21.266 | 21.255 | 21.277 | VV | 29696                             | 377928  | 5.61%  | 0.186% |
| 356 | 21.289 | 21.277 | 21.302 | VV | 32345                             | 434719  | 6.45%  | 0.214% |
| 357 | 21.309 | 21.302 | 21.317 | VV | 28093                             | 241996  | 3.59%  | 0.119% |
| 358 | 21.367 | 21.317 | 21.409 | VV | 32114                             | 1583394 | 23.49% | 0.781% |
| 359 | 21.448 | 21.409 | 21.462 | VV | 28557                             | 812561  | 12.05% | 0.401% |
| 360 | 21.490 | 21.462 | 21.547 | VV | 31870                             | 1252422 | 18.58% | 0.618% |
| 361 | 21.559 | 21.547 | 21.579 | VV | 18511                             | 336213  | 4.99%  | 0.166% |
| 362 | 21.586 | 21.579 | 21.625 | VV | 17127                             | 446315  | 6.62%  | 0.220% |
| 363 | 21.655 | 21.625 | 21.702 | VV | 15581                             | 616161  | 9.14%  | 0.304% |
| 364 | 21.715 | 21.702 | 21.758 | VV | 14075                             | 338817  | 5.03%  | 0.167% |
| 365 | 21.791 | 21.758 | 21.837 | VV | 13527                             | 488990  | 7.25%  | 0.241% |
| 366 | 21.866 | 21.837 | 21.922 | VV | 15493                             | 548561  | 8.14%  | 0.271% |
| 367 | 21.933 | 21.922 | 21.977 | VV | 6710                              | 133675  | 1.98%  | 0.066% |
|     |        |        |        |    | Sum of corrected areas: 202783077 |         |        |        |

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