

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_D\Data\FD010919AL\  
 Data File : FD027159.D  
 Signal(s) : FID2B.CH  
 Acq On : 09 Jan 2019 18:49  
 Sample : K1006-01  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_D\methods\Alaphatic EPH 010719.M  
 Title : GC Extractables

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         | 3.338       | 3.322        | 3.369      | PV       | 1709           | 18042        | 0.06%          | 0.009%        |
| 2         | 3.451       | 3.435        | 3.490      | VV       | 2244           | 31551        | 0.11%          | 0.015%        |
| 3         | 3.520       | 3.490        | 3.543      | VV       | 1327           | 19962        | 0.07%          | 0.010%        |
| 4         | 3.565       | 3.543        | 3.592      | VV       | 1336           | 20135        | 0.07%          | 0.010%        |
| 5         | 3.606       | 3.592        | 3.627      | VV       | 2017           | 17551        | 0.06%          | 0.009%        |
| 6         | 3.651       | 3.627        | 3.675      | PV       | 1871           | 28468        | 0.10%          | 0.014%        |
| 7         | 3.744       | 3.704        | 3.759      | VV       | 5731           | 62777        | 0.21%          | 0.031%        |
| 8         | 3.770       | 3.759        | 3.787      | VV       | 2765           | 32036        | 0.11%          | 0.016%        |
| 9         | 3.799       | 3.787        | 3.814      | VV       | 1201           | 15701        | 0.05%          | 0.008%        |
| 10        | 3.835       | 3.814        | 3.865      | VV       | 2400           | 32078        | 0.11%          | 0.016%        |
| 11        | 3.914       | 3.865        | 3.928      | VV       | 3672           | 71450        | 0.24%          | 0.035%        |
| 12        | 3.940       | 3.928        | 3.965      | VV       | 2795           | 38059        | 0.13%          | 0.019%        |
| 13        | 3.975       | 3.965        | 4.014      | VV       | 1075           | 16745        | 0.06%          | 0.008%        |
| 14        | 4.047       | 4.014        | 4.070      | PV       | 1419           | 19586        | 0.07%          | 0.010%        |
| 15        | 4.088       | 4.070        | 4.111      | VV       | 1455           | 19359        | 0.07%          | 0.009%        |
| 16        | 4.141       | 4.111        | 4.160      | VV       | 11581          | 112338       | 0.38%          | 0.055%        |
| 17        | 4.174       | 4.160        | 4.189      | VV       | 3174           | 28391        | 0.10%          | 0.014%        |
| 18        | 4.206       | 4.189        | 4.224      | VV       | 1605           | 17911        | 0.06%          | 0.009%        |
| 19        | 4.293       | 4.263        | 4.314      | VV       | 2259           | 34234        | 0.12%          | 0.017%        |
| 20        | 4.328       | 4.314        | 4.353      | VV       | 1689           | 27036        | 0.09%          | 0.013%        |
| 21        | 4.364       | 4.353        | 4.378      | VV       | 1298           | 13824        | 0.05%          | 0.007%        |
| 22        | 4.393       | 4.378        | 4.405      | VV       | 5270           | 49594        | 0.17%          | 0.024%        |
| 23        | 4.413       | 4.405        | 4.429      | VV       | 3089           | 27016        | 0.09%          | 0.013%        |
| 24        | 4.446       | 4.429        | 4.453      | VV       | 1621           | 17005        | 0.06%          | 0.008%        |
| 25        | 4.463       | 4.453        | 4.493      | VV       | 1925           | 31822        | 0.11%          | 0.016%        |
| 26        | 4.510       | 4.493        | 4.524      | VV       | 3364           | 38260        | 0.13%          | 0.019%        |
| 27        | 4.551       | 4.524        | 4.570      | VV       | 3177           | 52188        | 0.18%          | 0.025%        |
| 28        | 4.592       | 4.570        | 4.631      | VV       | 5334           | 77435        | 0.26%          | 0.038%        |
| 29        | 4.658       | 4.631        | 4.676      | VV       | 2185           | 24888        | 0.08%          | 0.012%        |
| 30        | 4.691       | 4.676        | 4.710      | VV       | 1150           | 11702        | 0.04%          | 0.006%        |
| 31        | 4.748       | 4.710        | 4.759      | PV       | 2995           | 36524        | 0.12%          | 0.018%        |
| 32        | 4.776       | 4.759        | 4.799      | VV       | 4820           | 68149        | 0.23%          | 0.033%        |
| 33        | 4.817       | 4.799        | 4.831      | PV       | 5394           | 51262        | 0.17%          | 0.025%        |
| 34        | 4.844       | 4.831        | 4.861      | VV       | 4418           | 49030        | 0.17%          | 0.024%        |
| 35        | 4.878       | 4.861        | 4.913      | VV       | 4610           | 61879        | 0.21%          | 0.030%        |
| 36        | 4.966       | 4.945        | 4.978      | VV       | 2308           | 25812        | 0.09%          | 0.013%        |

| rteres.txt |       |       |       |    |       |        |       |        |
|------------|-------|-------|-------|----|-------|--------|-------|--------|
| 37         | 4.990 | 4.978 | 5.008 | VV | 2291  | 28895  | 0.10% | 0.014% |
| 38         | 5.030 | 5.008 | 5.045 | VV | 3426  | 52383  | 0.18% | 0.026% |
| 39         | 5.057 | 5.045 | 5.071 | VV | 3374  | 34102  | 0.12% | 0.017% |
| 40         | 5.081 | 5.071 | 5.101 | VV | 1403  | 21224  | 0.07% | 0.010% |
| 41         | 5.114 | 5.101 | 5.129 | VV | 1982  | 20382  | 0.07% | 0.010% |
| 42         | 5.173 | 5.149 | 5.225 | VV | 26699 | 346573 | 1.18% | 0.169% |
| 43         | 5.242 | 5.225 | 5.268 | VV | 955   | 16631  | 0.06% | 0.008% |
| 44         | 5.289 | 5.268 | 5.302 | VV | 853   | 11531  | 0.04% | 0.006% |
| 45         | 5.339 | 5.302 | 5.397 | VV | 7127  | 152172 | 0.52% | 0.074% |
| 46         | 5.460 | 5.397 | 5.481 | VV | 8419  | 206591 | 0.70% | 0.101% |
| 47         | 5.492 | 5.481 | 5.503 | VV | 3381  | 34776  | 0.12% | 0.017% |
| 48         | 5.531 | 5.503 | 5.551 | VV | 8900  | 124544 | 0.42% | 0.061% |
| 49         | 5.576 | 5.551 | 5.601 | VV | 3879  | 67818  | 0.23% | 0.033% |
| 50         | 5.620 | 5.601 | 5.636 | VV | 4521  | 50357  | 0.17% | 0.025% |
| 51         | 5.668 | 5.636 | 5.687 | VV | 5072  | 90147  | 0.31% | 0.044% |
| 52         | 5.701 | 5.687 | 5.710 | VV | 4263  | 41958  | 0.14% | 0.020% |
| 53         | 5.735 | 5.710 | 5.754 | VV | 5898  | 117404 | 0.40% | 0.057% |
| 54         | 5.766 | 5.754 | 5.782 | VV | 4913  | 54416  | 0.19% | 0.027% |
| 55         | 5.809 | 5.782 | 5.824 | VV | 7634  | 107829 | 0.37% | 0.053% |
| 56         | 5.843 | 5.824 | 5.857 | VV | 7181  | 104003 | 0.35% | 0.051% |
| 57         | 5.875 | 5.857 | 5.907 | VV | 8948  | 159531 | 0.54% | 0.078% |
| 58         | 5.923 | 5.907 | 5.937 | VV | 5807  | 63964  | 0.22% | 0.031% |
| 59         | 5.949 | 5.937 | 5.954 | VV | 3834  | 35664  | 0.12% | 0.017% |
| 60         | 5.976 | 5.954 | 6.008 | VV | 5700  | 125585 | 0.43% | 0.061% |
| 61         | 6.026 | 6.008 | 6.046 | VV | 4075  | 75457  | 0.26% | 0.037% |
| 62         | 6.069 | 6.046 | 6.090 | VV | 10380 | 149882 | 0.51% | 0.073% |
| 63         | 6.098 | 6.090 | 6.105 | VV | 2904  | 26573  | 0.09% | 0.013% |
| 64         | 6.114 | 6.105 | 6.127 | VV | 3155  | 33589  | 0.11% | 0.016% |
| 65         | 6.149 | 6.127 | 6.198 | VV | 44444 | 500224 | 1.70% | 0.244% |
| 66         | 6.229 | 6.198 | 6.237 | VV | 3497  | 58567  | 0.20% | 0.029% |
| 67         | 6.260 | 6.237 | 6.276 | VV | 5844  | 101453 | 0.35% | 0.049% |
| 68         | 6.299 | 6.276 | 6.318 | VV | 18208 | 227113 | 0.77% | 0.111% |
| 69         | 6.336 | 6.318 | 6.355 | VV | 6911  | 107340 | 0.37% | 0.052% |
| 70         | 6.368 | 6.355 | 6.378 | VV | 4721  | 52536  | 0.18% | 0.026% |
| 71         | 6.391 | 6.378 | 6.400 | VV | 5212  | 59419  | 0.20% | 0.029% |
| 72         | 6.416 | 6.400 | 6.439 | VV | 11117 | 139501 | 0.47% | 0.068% |
| 73         | 6.461 | 6.439 | 6.470 | VV | 8053  | 100633 | 0.34% | 0.049% |
| 74         | 6.479 | 6.470 | 6.510 | VV | 8595  | 134334 | 0.46% | 0.065% |
| 75         | 6.532 | 6.510 | 6.576 | VV | 25041 | 358649 | 1.22% | 0.175% |
| 76         | 6.586 | 6.576 | 6.591 | VV | 2980  | 25616  | 0.09% | 0.012% |
| 77         | 6.611 | 6.591 | 6.631 | VV | 6988  | 113049 | 0.38% | 0.055% |
| 78         | 6.654 | 6.631 | 6.678 | VV | 11778 | 231438 | 0.79% | 0.113% |
| 79         | 6.702 | 6.678 | 6.728 | VV | 12970 | 227843 | 0.78% | 0.111% |
| 80         | 6.752 | 6.728 | 6.788 | VV | 25748 | 402930 | 1.37% | 0.196% |
| 81         | 6.805 | 6.788 | 6.822 | VV | 12197 | 140315 | 0.48% | 0.068% |
| 82         | 6.848 | 6.822 | 6.869 | VV | 20952 | 303174 | 1.03% | 0.148% |
| 83         | 6.901 | 6.869 | 6.921 | VV | 9651  | 204399 | 0.70% | 0.100% |
| 84         | 6.942 | 6.921 | 6.958 | VV | 7795  | 116154 | 0.40% | 0.057% |
| 85         | 6.967 | 6.958 | 6.978 | VV | 5171  | 57092  | 0.19% | 0.028% |
| 86         | 6.995 | 6.978 | 7.010 | VV | 5223  | 91919  | 0.31% | 0.045% |
| 87         | 7.034 | 7.010 | 7.049 | VV | 22093 | 280332 | 0.95% | 0.137% |
| 88         | 7.069 | 7.049 | 7.102 | VV | 65389 | 788366 | 2.68% | 0.384% |
| 89         | 7.126 | 7.102 | 7.163 | VV | 7880  | 239535 | 0.82% | 0.117% |

|     |       |       |       |    |            |         |       |        |
|-----|-------|-------|-------|----|------------|---------|-------|--------|
|     |       |       |       |    | rteres.txt |         |       |        |
| 90  | 7.190 | 7.163 | 7.201 | VV | 5433       | 108610  | 0.37% | 0.053% |
| 91  | 7.238 | 7.201 | 7.266 | VV | 17316      | 391369  | 1.33% | 0.191% |
| 92  | 7.284 | 7.266 | 7.308 | VV | 8833       | 143635  | 0.49% | 0.070% |
| 93  | 7.426 | 7.411 | 7.451 | VV | 11568      | 190268  | 0.65% | 0.093% |
| 94  | 7.483 | 7.451 | 7.504 | VV | 12821      | 267240  | 0.91% | 0.130% |
| 95  | 7.522 | 7.504 | 7.537 | VV | 14825      | 200624  | 0.68% | 0.098% |
| 96  | 7.547 | 7.537 | 7.565 | VV | 9688       | 132546  | 0.45% | 0.065% |
| 97  | 7.586 | 7.565 | 7.606 | VV | 11238      | 202179  | 0.69% | 0.099% |
| 98  | 7.631 | 7.606 | 7.644 | VV | 17353      | 261643  | 0.89% | 0.127% |
| 99  | 7.653 | 7.644 | 7.667 | VV | 14644      | 164488  | 0.56% | 0.080% |
| 100 | 7.683 | 7.667 | 7.706 | VV | 15501      | 246926  | 0.84% | 0.120% |
| 101 | 7.724 | 7.706 | 7.738 | VV | 9479       | 146132  | 0.50% | 0.071% |
| 102 | 7.758 | 7.738 | 7.781 | VV | 23421      | 328618  | 1.12% | 0.160% |
| 103 | 7.797 | 7.781 | 7.814 | VV | 7048       | 114713  | 0.39% | 0.056% |
| 104 | 7.839 | 7.814 | 7.853 | VV | 16178      | 248448  | 0.85% | 0.121% |
| 105 | 7.867 | 7.853 | 7.884 | VV | 18662      | 247516  | 0.84% | 0.121% |
| 106 | 7.900 | 7.884 | 7.914 | VV | 13315      | 199446  | 0.68% | 0.097% |
| 107 | 7.935 | 7.914 | 7.964 | VV | 76229      | 911526  | 3.10% | 0.444% |
| 108 | 7.986 | 7.964 | 8.010 | VV | 38469      | 507722  | 1.73% | 0.247% |
| 109 | 8.025 | 8.010 | 8.043 | VV | 11010      | 168485  | 0.57% | 0.082% |
| 110 | 8.052 | 8.043 | 8.061 | VV | 7142       | 74885   | 0.25% | 0.036% |
| 111 | 8.080 | 8.061 | 8.095 | VV | 12150      | 188809  | 0.64% | 0.092% |
| 112 | 8.107 | 8.095 | 8.121 | VV | 10127      | 126194  | 0.43% | 0.061% |
| 113 | 8.141 | 8.121 | 8.187 | VV | 14325      | 320876  | 1.09% | 0.156% |
| 114 | 8.285 | 8.268 | 8.322 | VV | 11306      | 286933  | 0.98% | 0.140% |
| 115 | 8.352 | 8.322 | 8.369 | VV | 14386      | 314194  | 1.07% | 0.153% |
| 116 | 8.380 | 8.369 | 8.408 | VV | 12252      | 232315  | 0.79% | 0.113% |
| 117 | 8.426 | 8.408 | 8.448 | VV | 14157      | 244631  | 0.83% | 0.119% |
| 118 | 8.469 | 8.448 | 8.493 | VV | 31353      | 422042  | 1.44% | 0.206% |
| 119 | 8.521 | 8.493 | 8.545 | VV | 12746      | 266875  | 0.91% | 0.130% |
| 120 | 8.557 | 8.545 | 8.572 | VV | 8722       | 120222  | 0.41% | 0.059% |
| 121 | 8.588 | 8.572 | 8.601 | VV | 7492       | 121208  | 0.41% | 0.059% |
| 122 | 8.612 | 8.601 | 8.626 | VV | 7256       | 98956   | 0.34% | 0.048% |
| 123 | 8.637 | 8.626 | 8.647 | VV | 6776       | 81831   | 0.28% | 0.040% |
| 124 | 8.663 | 8.647 | 8.670 | VV | 7589       | 95993   | 0.33% | 0.047% |
| 125 | 8.686 | 8.670 | 8.706 | VV | 8602       | 171915  | 0.59% | 0.084% |
| 126 | 8.754 | 8.706 | 8.815 | VV | 75051      | 1198215 | 4.08% | 0.584% |
| 127 | 8.834 | 8.815 | 8.854 | VV | 10207      | 176341  | 0.60% | 0.086% |
| 128 | 8.878 | 8.854 | 8.898 | VV | 9505       | 180539  | 0.61% | 0.088% |
| 129 | 8.911 | 8.898 | 8.923 | VV | 6706       | 83062   | 0.28% | 0.040% |
| 130 | 8.945 | 8.923 | 8.979 | VV | 9512       | 247455  | 0.84% | 0.121% |
| 131 | 8.991 | 8.979 | 9.001 | VV | 6835       | 81314   | 0.28% | 0.040% |
| 132 | 9.016 | 9.001 | 9.053 | VV | 8892       | 208374  | 0.71% | 0.102% |
| 133 | 9.072 | 9.053 | 9.101 | VV | 6795       | 167500  | 0.57% | 0.082% |
| 134 | 9.122 | 9.101 | 9.155 | VV | 15979      | 339613  | 1.16% | 0.165% |
| 135 | 9.172 | 9.155 | 9.188 | VV | 12614      | 189017  | 0.64% | 0.092% |
| 136 | 9.208 | 9.188 | 9.231 | VV | 13086      | 234461  | 0.80% | 0.114% |
| 137 | 9.255 | 9.231 | 9.271 | VV | 13100      | 207515  | 0.71% | 0.101% |
| 138 | 9.305 | 9.271 | 9.330 | VV | 12361      | 302361  | 1.03% | 0.147% |
| 139 | 9.337 | 9.330 | 9.355 | VV | 4915       | 68062   | 0.23% | 0.033% |
| 140 | 9.371 | 9.355 | 9.389 | VV | 5306       | 98264   | 0.33% | 0.048% |
| 141 | 9.401 | 9.389 | 9.412 | VV | 4924       | 62648   | 0.21% | 0.031% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 142        | 9.458  | 9.412  | 9.468  | VV | 10117  | 232378  | 0.79%  | 0.113% |
| 143        | 9.479  | 9.468  | 9.502  | VV | 10376  | 178934  | 0.61%  | 0.087% |
| 144        | 9.528  | 9.502  | 9.565  | VV | 73848  | 924916  | 3.15%  | 0.451% |
| 145        | 9.601  | 9.565  | 9.619  | VV | 7452   | 186179  | 0.63%  | 0.091% |
| 146        | 9.627  | 9.619  | 9.662  | VV | 5867   | 120789  | 0.41%  | 0.059% |
| 147        | 9.681  | 9.662  | 9.721  | VV | 6223   | 157645  | 0.54%  | 0.077% |
| 148        | 9.760  | 9.721  | 9.778  | VV | 5414   | 143255  | 0.49%  | 0.070% |
| 149        | 9.806  | 9.778  | 9.815  | VV | 4526   | 87138   | 0.30%  | 0.042% |
| 150        | 9.840  | 9.815  | 9.855  | VV | 4930   | 107895  | 0.37%  | 0.053% |
| 151        | 9.872  | 9.855  | 9.884  | VV | 9896   | 133398  | 0.45%  | 0.065% |
| 152        | 9.912  | 9.884  | 9.942  | VV | 22457  | 491505  | 1.67%  | 0.239% |
| 153        | 9.962  | 9.942  | 9.982  | VV | 11669  | 199696  | 0.68%  | 0.097% |
| 154        | 10.005 | 9.982  | 10.031 | VV | 12977  | 232568  | 0.79%  | 0.113% |
| 155        | 10.055 | 10.031 | 10.076 | VV | 11896  | 189467  | 0.64%  | 0.092% |
| 156        | 10.105 | 10.076 | 10.123 | VV | 4716   | 120400  | 0.41%  | 0.059% |
| 157        | 10.144 | 10.123 | 10.171 | VV | 7016   | 143883  | 0.49%  | 0.070% |
| 158        | 10.189 | 10.171 | 10.208 | VV | 6454   | 118798  | 0.40%  | 0.058% |
| 159        | 10.263 | 10.208 | 10.294 | VV | 65130  | 947895  | 3.23%  | 0.462% |
| 160        | 10.335 | 10.294 | 10.414 | VV | 23050  | 676445  | 2.30%  | 0.330% |
| 161        | 10.446 | 10.414 | 10.465 | VV | 4750   | 115514  | 0.39%  | 0.056% |
| 162        | 10.481 | 10.465 | 10.504 | VV | 11424  | 155053  | 0.53%  | 0.076% |
| 163        | 10.522 | 10.504 | 10.544 | VV | 5661   | 98654   | 0.34%  | 0.048% |
| 164        | 10.583 | 10.544 | 10.619 | VV | 9163   | 263609  | 0.90%  | 0.128% |
| 165        | 10.645 | 10.619 | 10.692 | VV | 11361  | 309637  | 1.05%  | 0.151% |
| 166        | 10.716 | 10.692 | 10.751 | VV | 8104   | 179599  | 0.61%  | 0.088% |
| 167        | 10.767 | 10.751 | 10.786 | VV | 7141   | 107104  | 0.36%  | 0.052% |
| 168        | 10.797 | 10.786 | 10.828 | VV | 4257   | 90258   | 0.31%  | 0.044% |
| 169        | 10.839 | 10.828 | 10.856 | VV | 3260   | 50263   | 0.17%  | 0.024% |
| 170        | 10.878 | 10.856 | 10.908 | VV | 4416   | 113863  | 0.39%  | 0.055% |
| 171        | 10.914 | 10.908 | 10.933 | VV | 3762   | 53746   | 0.18%  | 0.026% |
| 172        | 10.962 | 10.933 | 10.990 | VV | 53313  | 686047  | 2.34%  | 0.334% |
| 173        | 11.007 | 10.990 | 11.025 | VV | 6686   | 112491  | 0.38%  | 0.055% |
| 174        | 11.053 | 11.025 | 11.091 | VV | 18100  | 321326  | 1.09%  | 0.157% |
| 175        | 11.130 | 11.091 | 11.148 | VV | 4068   | 103395  | 0.35%  | 0.050% |
| 176        | 11.153 | 11.148 | 11.191 | VV | 3129   | 61420   | 0.21%  | 0.030% |
| 177        | 11.260 | 11.191 | 11.298 | VV | 258628 | 2992725 | 10.19% | 1.458% |
| 178        | 11.313 | 11.298 | 11.331 | VV | 7436   | 105828  | 0.36%  | 0.052% |
| 179        | 11.352 | 11.331 | 11.373 | VV | 7687   | 131681  | 0.45%  | 0.064% |
| 180        | 11.394 | 11.373 | 11.411 | VV | 6855   | 117671  | 0.40%  | 0.057% |
| 181        | 11.433 | 11.411 | 11.471 | VV | 6982   | 183890  | 0.63%  | 0.090% |
| 182        | 11.516 | 11.471 | 11.551 | VV | 25413  | 392575  | 1.34%  | 0.191% |
| 183        | 11.574 | 11.551 | 11.584 | VV | 2969   | 50422   | 0.17%  | 0.025% |
| 184        | 11.630 | 11.584 | 11.653 | VV | 43283  | 636445  | 2.17%  | 0.310% |
| 185        | 11.687 | 11.653 | 11.737 | VV | 665996 | 7724192 | 26.29% | 3.764% |
| 186        | 11.752 | 11.737 | 11.768 | VV | 2718   | 42622   | 0.15%  | 0.021% |
| 187        | 11.780 | 11.768 | 11.796 | VV | 2353   | 28338   | 0.10%  | 0.014% |
| 188        | 11.818 | 11.796 | 11.872 | VV | 4666   | 92119   | 0.31%  | 0.045% |
| 189        | 11.898 | 11.872 | 11.912 | VV | 4937   | 75329   | 0.26%  | 0.037% |
| 190        | 11.931 | 11.912 | 11.948 | VV | 4751   | 85859   | 0.29%  | 0.042% |
| 191        | 11.962 | 11.948 | 11.989 | VV | 4024   | 80387   | 0.27%  | 0.039% |
| 192        | 12.009 | 11.989 | 12.019 | VV | 4552   | 61640   | 0.21%  | 0.030% |
| 193        | 12.034 | 12.019 | 12.057 | VV | 5358   | 88978   | 0.30%  | 0.043% |
| 194        | 12.088 | 12.057 | 12.125 | VV | 5019   | 121287  | 0.41%  | 0.059% |

| rteres.txt |        |        |        |    |         |          |         |         |
|------------|--------|--------|--------|----|---------|----------|---------|---------|
| 195        | 12.142 | 12.125 | 12.163 | VV | 10110   | 127740   | 0.43%   | 0.062%  |
| 196        | 12.179 | 12.163 | 12.201 | VV | 5234    | 82143    | 0.28%   | 0.040%  |
| 197        | 12.214 | 12.201 | 12.229 | VV | 2670    | 39216    | 0.13%   | 0.019%  |
| 198        | 12.266 | 12.229 | 12.303 | VV | 35613   | 581887   | 1.98%   | 0.284%  |
| 199        | 12.319 | 12.303 | 12.365 | VV | 9657    | 149980   | 0.51%   | 0.073%  |
| 200        | 12.417 | 12.365 | 12.448 | VV | 1926    | 62690    | 0.21%   | 0.031%  |
| 201        | 12.479 | 12.448 | 12.499 | PV | 1664    | 28967    | 0.10%   | 0.014%  |
| 202        | 12.536 | 12.499 | 12.546 | VV | 3547    | 73157    | 0.25%   | 0.036%  |
| 203        | 12.578 | 12.546 | 12.601 | VV | 10578   | 216207   | 0.74%   | 0.105%  |
| 204        | 12.623 | 12.601 | 12.651 | VV | 4157    | 94953    | 0.32%   | 0.046%  |
| 205        | 12.712 | 12.651 | 12.740 | VV | 1646992 | 29379760 | 100.00% | 14.315% |
| 206        | 12.773 | 12.740 | 12.834 | VV | 1838780 | 27502774 | 93.61%  | 13.401% |
| 207        | 12.878 | 12.834 | 12.902 | VV | 30909   | 453404   | 1.54%   | 0.221%  |
| 208        | 12.933 | 12.902 | 12.960 | VV | 263539  | 3129848  | 10.65%  | 1.525%  |
| 209        | 12.967 | 12.960 | 12.975 | VV | 10327   | 93787    | 0.32%   | 0.046%  |
| 210        | 12.988 | 12.975 | 13.003 | VV | 12633   | 160866   | 0.55%   | 0.078%  |
| 211        | 13.017 | 13.003 | 13.047 | VV | 9096    | 140868   | 0.48%   | 0.069%  |
| 212        | 13.064 | 13.047 | 13.079 | VV | 3510    | 54752    | 0.19%   | 0.027%  |
| 213        | 13.122 | 13.079 | 13.162 | VV | 4367    | 165291   | 0.56%   | 0.081%  |
| 214        | 13.221 | 13.162 | 13.247 | VV | 47048   | 714020   | 2.43%   | 0.348%  |
| 215        | 13.274 | 13.247 | 13.294 | VV | 4748    | 116739   | 0.40%   | 0.057%  |
| 216        | 13.318 | 13.294 | 13.342 | VV | 10230   | 157223   | 0.54%   | 0.077%  |
| 217        | 13.363 | 13.342 | 13.395 | VV | 4919    | 92228    | 0.31%   | 0.045%  |
| 218        | 13.426 | 13.395 | 13.436 | VV | 4781    | 59849    | 0.20%   | 0.029%  |
| 219        | 13.459 | 13.436 | 13.480 | VV | 24454   | 340947   | 1.16%   | 0.166%  |
| 220        | 13.506 | 13.480 | 13.530 | VV | 8417    | 167208   | 0.57%   | 0.081%  |
| 221        | 13.560 | 13.530 | 13.612 | VV | 9314    | 189150   | 0.64%   | 0.092%  |
| 222        | 13.629 | 13.612 | 13.639 | VV | 1033    | 10210    | 0.03%   | 0.005%  |
| 223        | 13.663 | 13.639 | 13.670 | VV | 2710    | 34732    | 0.12%   | 0.017%  |
| 224        | 13.713 | 13.670 | 13.731 | VV | 35699   | 534789   | 1.82%   | 0.261%  |
| 225        | 13.755 | 13.731 | 13.780 | VV | 17905   | 361826   | 1.23%   | 0.176%  |
| 226        | 13.798 | 13.780 | 13.812 | VV | 8143    | 121038   | 0.41%   | 0.059%  |
| 227        | 13.833 | 13.812 | 13.844 | VV | 8258    | 138244   | 0.47%   | 0.067%  |
| 228        | 13.861 | 13.844 | 13.880 | VV | 13865   | 207773   | 0.71%   | 0.101%  |
| 229        | 13.908 | 13.880 | 13.962 | VV | 41516   | 812592   | 2.77%   | 0.396%  |
| 230        | 13.970 | 13.962 | 13.981 | VV | 3411    | 36891    | 0.13%   | 0.018%  |
| 231        | 14.016 | 13.981 | 14.044 | VV | 28823   | 493651   | 1.68%   | 0.241%  |
| 232        | 14.074 | 14.044 | 14.111 | VV | 43768   | 647536   | 2.20%   | 0.316%  |
| 233        | 14.129 | 14.111 | 14.158 | VV | 10115   | 161573   | 0.55%   | 0.079%  |
| 234        | 14.180 | 14.158 | 14.201 | VV | 7969    | 116728   | 0.40%   | 0.057%  |
| 235        | 14.227 | 14.201 | 14.250 | VV | 6846    | 118115   | 0.40%   | 0.058%  |
| 236        | 14.270 | 14.250 | 14.325 | VV | 3115    | 81155    | 0.28%   | 0.040%  |
| 237        | 14.336 | 14.325 | 14.358 | PV | 929     | 13513    | 0.05%   | 0.007%  |
| 238        | 14.456 | 14.358 | 14.473 | VV | 5563    | 171953   | 0.59%   | 0.084%  |
| 239        | 14.489 | 14.473 | 14.501 | VV | 5102    | 65261    | 0.22%   | 0.032%  |
| 240        | 14.552 | 14.501 | 14.581 | VV | 22909   | 533272   | 1.82%   | 0.260%  |
| 241        | 14.612 | 14.581 | 14.641 | VV | 3384    | 80573    | 0.27%   | 0.039%  |
| 242        | 14.659 | 14.641 | 14.681 | VV | 3284    | 54893    | 0.19%   | 0.027%  |
| 243        | 14.703 | 14.681 | 14.726 | VV | 3796    | 59489    | 0.20%   | 0.029%  |
| 244        | 14.754 | 14.726 | 14.818 | VV | 6007    | 133923   | 0.46%   | 0.065%  |
| 245        | 14.835 | 14.818 | 14.845 | VV | 2350    | 29921    | 0.10%   | 0.015%  |
| 246        | 14.861 | 14.845 | 14.876 | VV | 2902    | 42665    | 0.15%   | 0.021%  |

|     |        |        |        |    |            |         |       |        |
|-----|--------|--------|--------|----|------------|---------|-------|--------|
|     |        |        |        |    | rteres.txt |         |       |        |
| 247 | 14.897 | 14.876 | 14.911 | VV | 8316       | 118072  | 0.40% | 0.058% |
| 248 | 14.931 | 14.911 | 14.958 | VV | 14883      | 238612  | 0.81% | 0.116% |
| 249 | 14.975 | 14.958 | 15.008 | VV | 3858       | 88159   | 0.30% | 0.043% |
| 250 | 15.040 | 15.008 | 15.051 | VV | 2393       | 46665   | 0.16% | 0.023% |
| 251 | 15.074 | 15.051 | 15.102 | VV | 17524      | 228758  | 0.78% | 0.111% |
| 252 | 15.132 | 15.102 | 15.208 | VV | 31108      | 519845  | 1.77% | 0.253% |
| 253 | 15.228 | 15.208 | 15.237 | PV | 1345       | 15651   | 0.05% | 0.008% |
| 254 | 15.260 | 15.237 | 15.277 | VV | 3859       | 66048   | 0.22% | 0.032% |
| 255 | 15.290 | 15.277 | 15.325 | VV | 4116       | 85165   | 0.29% | 0.041% |
| 256 | 15.330 | 15.325 | 15.345 | VV | 2715       | 24573   | 0.08% | 0.012% |
| 257 | 15.420 | 15.345 | 15.431 | VV | 3914       | 154021  | 0.52% | 0.075% |
| 258 | 15.451 | 15.431 | 15.488 | VV | 6255       | 144463  | 0.49% | 0.070% |
| 259 | 15.571 | 15.488 | 15.608 | VV | 24656      | 588122  | 2.00% | 0.287% |
| 260 | 15.634 | 15.608 | 15.657 | VV | 6187       | 140001  | 0.48% | 0.068% |
| 261 | 15.667 | 15.657 | 15.685 | VV | 4117       | 57795   | 0.20% | 0.028% |
| 262 | 15.735 | 15.685 | 15.751 | VV | 19168      | 402219  | 1.37% | 0.196% |
| 263 | 15.771 | 15.751 | 15.805 | VV | 22772      | 464263  | 1.58% | 0.226% |
| 264 | 15.826 | 15.805 | 15.841 | VV | 9074       | 179919  | 0.61% | 0.088% |
| 265 | 15.847 | 15.841 | 15.862 | VV | 8517       | 99126   | 0.34% | 0.048% |
| 266 | 15.884 | 15.862 | 15.897 | VV | 9004       | 167535  | 0.57% | 0.082% |
| 267 | 15.925 | 15.897 | 15.964 | VV | 11103      | 356658  | 1.21% | 0.174% |
| 268 | 15.997 | 15.964 | 16.024 | VV | 11794      | 332266  | 1.13% | 0.162% |
| 269 | 16.056 | 16.024 | 16.080 | VV | 25207      | 498114  | 1.70% | 0.243% |
| 270 | 16.116 | 16.080 | 16.144 | VV | 22762      | 536826  | 1.83% | 0.262% |
| 271 | 16.185 | 16.144 | 16.205 | VV | 13021      | 393585  | 1.34% | 0.192% |
| 272 | 16.222 | 16.205 | 16.264 | VV | 12328      | 386896  | 1.32% | 0.189% |
| 273 | 16.311 | 16.264 | 16.327 | VV | 13470      | 437665  | 1.49% | 0.213% |
| 274 | 16.355 | 16.327 | 16.373 | VV | 35865      | 628520  | 2.14% | 0.306% |
| 275 | 16.394 | 16.373 | 16.421 | VV | 51362      | 876255  | 2.98% | 0.427% |
| 276 | 16.431 | 16.421 | 16.457 | VV | 15435      | 289993  | 0.99% | 0.141% |
| 277 | 16.477 | 16.457 | 16.495 | VV | 13806      | 285072  | 0.97% | 0.139% |
| 278 | 16.519 | 16.495 | 16.541 | VV | 38847      | 710008  | 2.42% | 0.346% |
| 279 | 16.556 | 16.541 | 16.582 | VV | 22109      | 476799  | 1.62% | 0.232% |
| 280 | 16.598 | 16.582 | 16.626 | VV | 17486      | 396680  | 1.35% | 0.193% |
| 281 | 16.635 | 16.626 | 16.645 | VV | 14101      | 160267  | 0.55% | 0.078% |
| 282 | 16.682 | 16.645 | 16.701 | VV | 17923      | 529264  | 1.80% | 0.258% |
| 283 | 16.725 | 16.701 | 16.770 | VV | 19806      | 715595  | 2.44% | 0.349% |
| 284 | 16.802 | 16.770 | 16.835 | VV | 20225      | 703379  | 2.39% | 0.343% |
| 285 | 16.849 | 16.835 | 16.861 | VV | 19213      | 291143  | 0.99% | 0.142% |
| 286 | 16.891 | 16.861 | 16.915 | VV | 24921      | 670951  | 2.28% | 0.327% |
| 287 | 16.969 | 16.915 | 16.995 | VV | 43632      | 1154356 | 3.93% | 0.562% |
| 288 | 17.042 | 16.995 | 17.065 | VV | 23211      | 864087  | 2.94% | 0.421% |
| 289 | 17.114 | 17.065 | 17.151 | VV | 24799      | 1104850 | 3.76% | 0.538% |
| 290 | 17.160 | 17.151 | 17.175 | VV | 20824      | 279538  | 0.95% | 0.136% |
| 291 | 17.209 | 17.175 | 17.226 | VV | 21296      | 622484  | 2.12% | 0.303% |
| 292 | 17.259 | 17.226 | 17.267 | VV | 22512      | 520372  | 1.77% | 0.254% |
| 293 | 17.290 | 17.267 | 17.318 | VV | 24786      | 714416  | 2.43% | 0.348% |
| 294 | 17.350 | 17.318 | 17.377 | VV | 28066      | 905990  | 3.08% | 0.441% |
| 295 | 17.404 | 17.377 | 17.433 | VV | 50214      | 1146388 | 3.90% | 0.559% |
| 296 | 17.508 | 17.433 | 17.595 | VV | 46575      | 2830581 | 9.63% | 1.379% |
| 297 | 17.605 | 17.595 | 17.616 | VV | 26970      | 330115  | 1.12% | 0.161% |
| 298 | 17.622 | 17.616 | 17.632 | VV | 25096      | 225591  | 0.77% | 0.110% |
| 299 | 17.721 | 17.632 | 17.734 | VV | 32449      | 1747959 | 5.95% | 0.852% |

| rteres.txt              |        |        |        |    |           |         |        |        |
|-------------------------|--------|--------|--------|----|-----------|---------|--------|--------|
| 300                     | 17.756 | 17.734 | 17.798 | VV | 33515     | 1182689 | 4.03%  | 0.576% |
| 301                     | 17.826 | 17.798 | 17.849 | VV | 55197     | 1218655 | 4.15%  | 0.594% |
| 302                     | 17.876 | 17.849 | 17.905 | VV | 47257     | 1237896 | 4.21%  | 0.603% |
| 303                     | 17.913 | 17.905 | 17.935 | VV | 35330     | 587360  | 2.00%  | 0.286% |
| 304                     | 17.955 | 17.935 | 17.975 | VV | 35032     | 777439  | 2.65%  | 0.379% |
| 305                     | 17.989 | 17.975 | 18.018 | VV | 33183     | 819360  | 2.79%  | 0.399% |
| 306                     | 18.032 | 18.018 | 18.055 | VV | 33433     | 694579  | 2.36%  | 0.338% |
| 307                     | 18.066 | 18.055 | 18.071 | VV | 31240     | 298963  | 1.02%  | 0.146% |
| 308                     | 18.101 | 18.071 | 18.118 | VV | 33990     | 928426  | 3.16%  | 0.452% |
| 309                     | 18.128 | 18.118 | 18.156 | VV | 32798     | 731243  | 2.49%  | 0.356% |
| 310                     | 18.233 | 18.156 | 18.278 | VV | 57685     | 2807959 | 9.56%  | 1.368% |
| 311                     | 18.297 | 18.278 | 18.319 | VV | 48048     | 1003017 | 3.41%  | 0.489% |
| 312                     | 18.346 | 18.319 | 18.398 | VV | 46517     | 1961993 | 6.68%  | 0.956% |
| 313                     | 18.438 | 18.398 | 18.451 | VV | 40514     | 1207435 | 4.11%  | 0.588% |
| 314                     | 18.495 | 18.451 | 18.506 | VV | 41386     | 1352434 | 4.60%  | 0.659% |
| 315                     | 18.530 | 18.506 | 18.550 | VV | 42264     | 1065355 | 3.63%  | 0.519% |
| 316                     | 18.581 | 18.550 | 18.597 | VV | 42990     | 1200358 | 4.09%  | 0.585% |
| 317                     | 18.629 | 18.597 | 18.668 | VV | 71731     | 2184944 | 7.44%  | 1.065% |
| 318                     | 18.698 | 18.668 | 18.719 | VV | 48571     | 1362480 | 4.64%  | 0.664% |
| 319                     | 18.737 | 18.719 | 18.750 | VV | 45653     | 796400  | 2.71%  | 0.388% |
| 320                     | 18.767 | 18.750 | 18.778 | VV | 45855     | 761073  | 2.59%  | 0.371% |
| 321                     | 18.817 | 18.778 | 18.849 | VV | 50256     | 2002347 | 6.82%  | 0.976% |
| 322                     | 18.869 | 18.849 | 18.877 | VV | 47086     | 780837  | 2.66%  | 0.380% |
| 323                     | 18.886 | 18.877 | 18.908 | VV | 47273     | 845719  | 2.88%  | 0.412% |
| 324                     | 18.917 | 18.908 | 18.927 | VV | 47369     | 532452  | 1.81%  | 0.259% |
| 325                     | 18.939 | 18.927 | 18.973 | VV | 46833     | 1254215 | 4.27%  | 0.611% |
| 326                     | 19.012 | 18.973 | 19.075 | VV | 76711     | 3344967 | 11.39% | 1.630% |
| 327                     | 19.113 | 19.075 | 19.147 | VV | 53444     | 2229027 | 7.59%  | 1.086% |
| 328                     | 19.177 | 19.147 | 19.187 | VV | 52659     | 1235805 | 4.21%  | 0.602% |
| 329                     | 19.198 | 19.187 | 19.231 | VV | 53028     | 1373438 | 4.67%  | 0.669% |
| 330                     | 19.245 | 19.231 | 19.261 | VV | 54537     | 981210  | 3.34%  | 0.478% |
| 331                     | 19.318 | 19.261 | 19.341 | VV | 60795     | 2621987 | 8.92%  | 1.278% |
| 332                     | 19.391 | 19.341 | 19.463 | VV | 76291     | 4533597 | 15.43% | 2.209% |
| 333                     | 19.518 | 19.463 | 19.538 | VV | 65279     | 2748854 | 9.36%  | 1.339% |
| 334                     | 19.550 | 19.538 | 19.560 | VV | 61391     | 811861  | 2.76%  | 0.396% |
| 335                     | 19.577 | 19.560 | 19.591 | VV | 62128     | 1158510 | 3.94%  | 0.564% |
| 336                     | 19.619 | 19.591 | 19.702 | VV | 71873     | 4347574 | 14.80% | 2.118% |
| 337                     | 19.750 | 19.702 | 19.769 | VV | 79792     | 2839001 | 9.66%  | 1.383% |
| 338                     | 19.782 | 19.769 | 19.794 | VV | 73275     | 1024472 | 3.49%  | 0.499% |
| 339                     | 19.804 | 19.794 | 19.831 | VV | 70704     | 1547819 | 5.27%  | 0.754% |
| 340                     | 19.854 | 19.831 | 19.876 | VV | 74452     | 1904451 | 6.48%  | 0.928% |
| 341                     | 19.889 | 19.876 | 19.908 | VV | 72134     | 1362681 | 4.64%  | 0.664% |
| 342                     | 19.923 | 19.908 | 19.958 | VV | 77085     | 2184939 | 7.44%  | 1.065% |
| 343                     | 19.966 | 19.958 | 20.001 | VV | 72666     | 1858938 | 6.33%  | 0.906% |
| Sum of corrected areas: |        |        |        |    | 205232009 |         |        |        |

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