

## Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC081718AL\  
 Data File : FC035958.D  
 Signal(s) : FID1A.CH  
 Acq On : 18 Aug 2018 3:42  
 Sample : J4523-02  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\PESTPCBSRV\HPCHEM1\FID\_C\Method\Alaphatic EPH 080218.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         | 3.217       | 3.182        | 3.304      | BV       | 2801           | 31757        | 0.23%          | 0.004%        |
| 2         | 3.336       | 3.304        | 3.352      | PV       | 222            | 3485         | 0.03%          | 0.000%        |
| 3         | 3.359       | 3.352        | 3.377      | VV       | 287            | 2209         | 0.02%          | 0.000%        |
| 4         | 3.418       | 3.377        | 3.467      | VV       | 436            | 10997        | 0.08%          | 0.002%        |
| 5         | 3.479       | 3.467        | 3.523      | VV       | 556            | 11692        | 0.08%          | 0.002%        |
| 6         | 3.544       | 3.523        | 3.572      | VV       | 459            | 6086         | 0.04%          | 0.001%        |
| 7         | 3.592       | 3.572        | 3.619      | VV       | 910            | 13169        | 0.10%          | 0.002%        |
| 8         | 3.622       | 3.619        | 3.634      | VV       | 315            | 2527         | 0.02%          | 0.000%        |
| 9         | 3.657       | 3.634        | 3.689      | VV       | 511            | 9578         | 0.07%          | 0.001%        |
| 10        | 3.710       | 3.689        | 3.746      | VV       | 633            | 13028        | 0.09%          | 0.002%        |
| 11        | 3.753       | 3.746        | 3.772      | VV       | 344            | 2930         | 0.02%          | 0.000%        |
| 12        | 3.801       | 3.772        | 3.812      | PV       | 486            | 7621         | 0.06%          | 0.001%        |
| 13        | 3.816       | 3.812        | 3.841      | VV       | 505            | 4957         | 0.04%          | 0.001%        |
| 14        | 3.886       | 3.841        | 3.901      | VV       | 2119           | 33353        | 0.24%          | 0.005%        |
| 15        | 3.912       | 3.901        | 3.934      | VV       | 1677           | 21014        | 0.15%          | 0.003%        |
| 16        | 3.943       | 3.934        | 3.961      | VV       | 573            | 6868         | 0.05%          | 0.001%        |
| 17        | 3.979       | 3.961        | 4.002      | VV       | 1574           | 17873        | 0.13%          | 0.002%        |
| 18        | 4.018       | 4.002        | 4.032      | VV       | 358            | 4949         | 0.04%          | 0.001%        |
| 19        | 4.058       | 4.032        | 4.070      | VV       | 491            | 9074         | 0.07%          | 0.001%        |
| 20        | 4.086       | 4.070        | 4.151      | VV       | 856            | 20866        | 0.15%          | 0.003%        |
| 21        | 4.158       | 4.151        | 4.174      | VV       | 252            | 2397         | 0.02%          | 0.000%        |
| 22        | 4.196       | 4.174        | 4.221      | VV       | 607            | 9079         | 0.07%          | 0.001%        |
| 23        | 4.237       | 4.221        | 4.262      | VV       | 478            | 7519         | 0.05%          | 0.001%        |
| 24        | 4.284       | 4.262        | 4.337      | VV       | 4071           | 45176        | 0.33%          | 0.006%        |
| 25        | 4.353       | 4.337        | 4.373      | VV       | 332            | 4693         | 0.03%          | 0.001%        |
| 26        | 4.386       | 4.373        | 4.417      | VV       | 442            | 6631         | 0.05%          | 0.001%        |
| 27        | 4.441       | 4.417        | 4.465      | VV       | 1184           | 21133        | 0.15%          | 0.003%        |
| 28        | 4.480       | 4.465        | 4.522      | VV       | 886            | 23551        | 0.17%          | 0.003%        |
| 29        | 4.537       | 4.522        | 4.552      | VV       | 879            | 10417        | 0.08%          | 0.001%        |
| 30        | 4.569       | 4.552        | 4.621      | VV       | 1442           | 24743        | 0.18%          | 0.003%        |
| 31        | 4.635       | 4.621        | 4.645      | VV       | 525            | 6168         | 0.04%          | 0.001%        |
| 32        | 4.665       | 4.645        | 4.684      | VV       | 1948           | 24089        | 0.17%          | 0.003%        |
| 33        | 4.697       | 4.684        | 4.737      | VV       | 571            | 12595        | 0.09%          | 0.002%        |
| 34        | 4.750       | 4.737        | 4.771      | VV       | 446            | 5740         | 0.04%          | 0.001%        |
| 35        | 4.802       | 4.771        | 4.820      | VV       | 412            | 7901         | 0.06%          | 0.001%        |
| 36        | 4.838       | 4.820        | 4.851      | VV       | 846            | 9497         | 0.07%          | 0.001%        |

| rteres.txt |       |       |       |    |      |       |       |        |
|------------|-------|-------|-------|----|------|-------|-------|--------|
| 37         | 4.866 | 4.851 | 4.879 | VV | 1725 | 17791 | 0.13% | 0.002% |
| 38         | 4.890 | 4.879 | 4.904 | VV | 1122 | 12176 | 0.09% | 0.002% |
| 39         | 4.920 | 4.904 | 4.943 | VV | 1677 | 20674 | 0.15% | 0.003% |
| 40         | 4.968 | 4.943 | 5.005 | VV | 2188 | 32459 | 0.24% | 0.004% |
| 41         | 5.025 | 5.005 | 5.059 | VV | 1402 | 18212 | 0.13% | 0.003% |
| 42         | 5.090 | 5.059 | 5.129 | PV | 885  | 21443 | 0.16% | 0.003% |
| 43         | 5.142 | 5.129 | 5.167 | VV | 822  | 13394 | 0.10% | 0.002% |
| 44         | 5.177 | 5.167 | 5.189 | VV | 418  | 4505  | 0.03% | 0.001% |
| 45         | 5.203 | 5.189 | 5.249 | VV | 937  | 17745 | 0.13% | 0.002% |
| 46         | 5.264 | 5.249 | 5.282 | VV | 438  | 5349  | 0.04% | 0.001% |
| 47         | 5.289 | 5.282 | 5.301 | VV | 305  | 2581  | 0.02% | 0.000% |
| 48         | 5.320 | 5.301 | 5.348 | VV | 4090 | 48924 | 0.36% | 0.007% |
| 49         | 5.361 | 5.348 | 5.379 | VV | 934  | 10858 | 0.08% | 0.001% |
| 50         | 5.398 | 5.379 | 5.407 | VV | 489  | 6074  | 0.04% | 0.001% |
| 51         | 5.419 | 5.407 | 5.457 | VV | 564  | 12738 | 0.09% | 0.002% |
| 52         | 5.499 | 5.457 | 5.527 | VV | 948  | 21085 | 0.15% | 0.003% |
| 53         | 5.558 | 5.527 | 5.582 | VV | 876  | 16454 | 0.12% | 0.002% |
| 54         | 5.605 | 5.582 | 5.646 | VV | 924  | 22244 | 0.16% | 0.003% |
| 55         | 5.665 | 5.646 | 5.699 | VV | 669  | 12340 | 0.09% | 0.002% |
| 56         | 5.728 | 5.699 | 5.752 | VV | 400  | 7285  | 0.05% | 0.001% |
| 57         | 5.771 | 5.752 | 5.795 | PV | 490  | 7587  | 0.06% | 0.001% |
| 58         | 5.823 | 5.795 | 5.842 | VV | 680  | 10426 | 0.08% | 0.001% |
| 59         | 5.871 | 5.842 | 5.894 | VV | 1032 | 21077 | 0.15% | 0.003% |
| 60         | 5.914 | 5.894 | 5.936 | VV | 1003 | 14814 | 0.11% | 0.002% |
| 61         | 5.958 | 5.936 | 5.984 | VV | 1343 | 18659 | 0.14% | 0.003% |
| 62         | 6.017 | 5.984 | 6.036 | VV | 1716 | 24954 | 0.18% | 0.003% |
| 63         | 6.048 | 6.036 | 6.079 | VV | 671  | 11050 | 0.08% | 0.002% |
| 64         | 6.100 | 6.079 | 6.117 | VV | 591  | 8148  | 0.06% | 0.001% |
| 65         | 6.146 | 6.117 | 6.157 | VV | 844  | 13200 | 0.10% | 0.002% |
| 66         | 6.190 | 6.157 | 6.232 | VV | 2155 | 46135 | 0.34% | 0.006% |
| 67         | 6.244 | 6.232 | 6.254 | VV | 570  | 6992  | 0.05% | 0.001% |
| 68         | 6.262 | 6.254 | 6.274 | VV | 650  | 6422  | 0.05% | 0.001% |
| 69         | 6.297 | 6.274 | 6.359 | VV | 4506 | 64174 | 0.47% | 0.009% |
| 70         | 6.383 | 6.359 | 6.405 | VV | 1006 | 15670 | 0.11% | 0.002% |
| 71         | 6.444 | 6.405 | 6.469 | VV | 1629 | 27414 | 0.20% | 0.004% |
| 72         | 6.480 | 6.469 | 6.506 | VV | 558  | 7910  | 0.06% | 0.001% |
| 73         | 6.516 | 6.506 | 6.559 | VV | 489  | 7491  | 0.05% | 0.001% |
| 74         | 6.571 | 6.559 | 6.591 | VV | 384  | 4693  | 0.03% | 0.001% |
| 75         | 6.617 | 6.591 | 6.641 | VV | 570  | 11367 | 0.08% | 0.002% |
| 76         | 6.654 | 6.641 | 6.667 | VV | 307  | 4340  | 0.03% | 0.001% |
| 77         | 6.686 | 6.667 | 6.710 | VV | 435  | 8043  | 0.06% | 0.001% |
| 78         | 6.751 | 6.710 | 6.772 | VV | 404  | 8335  | 0.06% | 0.001% |
| 79         | 6.793 | 6.772 | 6.829 | VV | 794  | 17174 | 0.12% | 0.002% |
| 80         | 6.851 | 6.829 | 6.879 | VV | 791  | 10945 | 0.08% | 0.002% |
| 81         | 6.896 | 6.879 | 6.932 | VV | 1031 | 15093 | 0.11% | 0.002% |
| 82         | 6.953 | 6.932 | 6.976 | VV | 780  | 11898 | 0.09% | 0.002% |
| 83         | 6.995 | 6.976 | 7.032 | VV | 1417 | 20963 | 0.15% | 0.003% |
| 84         | 7.047 | 7.032 | 7.064 | VV | 282  | 4202  | 0.03% | 0.001% |
| 85         | 7.090 | 7.064 | 7.132 | VV | 800  | 19630 | 0.14% | 0.003% |
| 86         | 7.153 | 7.132 | 7.188 | VV | 754  | 15909 | 0.12% | 0.002% |
| 87         | 7.216 | 7.188 | 7.262 | VV | 4028 | 56115 | 0.41% | 0.008% |
| 88         | 7.274 | 7.262 | 7.294 | VV | 598  | 7492  | 0.05% | 0.001% |
| 89         | 7.303 | 7.294 | 7.312 | VV | 245  | 2580  | 0.02% | 0.000% |

|     |       |       |       |    |            |        |       |        |
|-----|-------|-------|-------|----|------------|--------|-------|--------|
|     |       |       |       |    | rteres.txt |        |       |        |
| 90  | 7.344 | 7.312 | 7.354 | VV | 381        | 8180   | 0.06% | 0.001% |
| 91  | 7.384 | 7.354 | 7.412 | VV | 688        | 14839  | 0.11% | 0.002% |
| 92  | 7.429 | 7.412 | 7.446 | PV | 243        | 2813   | 0.02% | 0.000% |
| 93  | 7.477 | 7.446 | 7.513 | VV | 481        | 10763  | 0.08% | 0.001% |
| 94  | 7.552 | 7.513 | 7.564 | VV | 503        | 11672  | 0.08% | 0.002% |
| 95  | 7.580 | 7.564 | 7.591 | VV | 746        | 11022  | 0.08% | 0.002% |
| 96  | 7.632 | 7.591 | 7.654 | VV | 1067       | 33053  | 0.24% | 0.005% |
| 97  | 7.671 | 7.654 | 7.682 | VV | 759        | 9921   | 0.07% | 0.001% |
| 98  | 7.689 | 7.682 | 7.719 | VV | 600        | 8397   | 0.06% | 0.001% |
| 99  | 7.738 | 7.719 | 7.761 | VV | 500        | 7845   | 0.06% | 0.001% |
| 100 | 7.780 | 7.761 | 7.796 | VV | 869        | 11418  | 0.08% | 0.002% |
| 101 | 7.816 | 7.796 | 7.856 | VV | 838        | 20475  | 0.15% | 0.003% |
| 102 | 7.864 | 7.856 | 7.884 | VV | 381        | 4885   | 0.04% | 0.001% |
| 103 | 7.904 | 7.884 | 7.931 | VV | 1038       | 16352  | 0.12% | 0.002% |
| 104 | 7.988 | 7.931 | 8.062 | VV | 1621       | 67740  | 0.49% | 0.009% |
| 105 | 8.082 | 8.062 | 8.124 | VV | 3506       | 51837  | 0.38% | 0.007% |
| 106 | 8.134 | 8.124 | 8.164 | VV | 346        | 6138   | 0.04% | 0.001% |
| 107 | 8.202 | 8.164 | 8.214 | VV | 488        | 10120  | 0.07% | 0.001% |
| 108 | 8.234 | 8.214 | 8.304 | VV | 1312       | 23213  | 0.17% | 0.003% |
| 109 | 8.333 | 8.304 | 8.381 | PV | 504        | 8749   | 0.06% | 0.001% |
| 110 | 8.436 | 8.381 | 8.481 | VV | 665        | 18897  | 0.14% | 0.003% |
| 111 | 8.501 | 8.481 | 8.512 | VV | 515        | 7756   | 0.06% | 0.001% |
| 112 | 8.529 | 8.512 | 8.539 | VV | 1008       | 12203  | 0.09% | 0.002% |
| 113 | 8.558 | 8.539 | 8.579 | VV | 2330       | 44591  | 0.32% | 0.006% |
| 114 | 8.586 | 8.579 | 8.602 | VV | 2037       | 25356  | 0.18% | 0.003% |
| 115 | 8.616 | 8.602 | 8.643 | VV | 2138       | 32522  | 0.24% | 0.004% |
| 116 | 8.666 | 8.643 | 8.680 | VV | 844        | 14324  | 0.10% | 0.002% |
| 117 | 8.695 | 8.680 | 8.734 | VV | 650        | 15033  | 0.11% | 0.002% |
| 118 | 8.763 | 8.734 | 8.772 | VV | 674        | 11737  | 0.09% | 0.002% |
| 119 | 8.801 | 8.772 | 8.809 | VV | 1846       | 27922  | 0.20% | 0.004% |
| 120 | 8.817 | 8.809 | 8.859 | VV | 1783       | 29052  | 0.21% | 0.004% |
| 121 | 8.899 | 8.859 | 8.937 | VV | 2950       | 57360  | 0.42% | 0.008% |
| 122 | 8.950 | 8.937 | 8.965 | VV | 460        | 5164   | 0.04% | 0.001% |
| 123 | 8.985 | 8.965 | 9.007 | VV | 550        | 9114   | 0.07% | 0.001% |
| 124 | 9.030 | 9.007 | 9.055 | PV | 547        | 8468   | 0.06% | 0.001% |
| 125 | 9.088 | 9.055 | 9.147 | VV | 1788       | 36264  | 0.26% | 0.005% |
| 126 | 9.198 | 9.147 | 9.213 | PV | 477        | 9603   | 0.07% | 0.001% |
| 127 | 9.223 | 9.213 | 9.234 | VV | 259        | 2893   | 0.02% | 0.000% |
| 128 | 9.276 | 9.234 | 9.304 | VV | 1558       | 30967  | 0.22% | 0.004% |
| 129 | 9.331 | 9.304 | 9.341 | VV | 467        | 8556   | 0.06% | 0.001% |
| 130 | 9.359 | 9.341 | 9.384 | VV | 876        | 13583  | 0.10% | 0.002% |
| 131 | 9.403 | 9.384 | 9.422 | VV | 751        | 11513  | 0.08% | 0.002% |
| 132 | 9.456 | 9.422 | 9.472 | VV | 714        | 13448  | 0.10% | 0.002% |
| 133 | 9.505 | 9.472 | 9.516 | VV | 454        | 8843   | 0.06% | 0.001% |
| 134 | 9.526 | 9.516 | 9.565 | VV | 382        | 6905   | 0.05% | 0.001% |
| 135 | 9.597 | 9.565 | 9.654 | PV | 2948       | 60071  | 0.44% | 0.008% |
| 136 | 9.677 | 9.654 | 9.721 | VV | 7759       | 105648 | 0.77% | 0.015% |
| 137 | 9.769 | 9.721 | 9.814 | VV | 856        | 26515  | 0.19% | 0.004% |
| 138 | 9.828 | 9.814 | 9.836 | PV | 290        | 1959   | 0.01% | 0.000% |
| 139 | 9.854 | 9.836 | 9.871 | VV | 397        | 4835   | 0.04% | 0.001% |
| 140 | 9.906 | 9.871 | 9.919 | VV | 369        | 5094   | 0.04% | 0.001% |
| 141 | 9.936 | 9.919 | 9.943 | VV | 227        | 3178   | 0.02% | 0.000% |

| rteres.txt |        |        |        |    |       |         |        |        |
|------------|--------|--------|--------|----|-------|---------|--------|--------|
| 142        | 9.962  | 9.943  | 9.984  | VV | 247   | 4203    | 0.03%  | 0.001% |
| 143        | 10.023 | 9.984  | 10.032 | PV | 1191  | 16919   | 0.12%  | 0.002% |
| 144        | 10.063 | 10.032 | 10.080 | VV | 3602  | 63325   | 0.46%  | 0.009% |
| 145        | 10.094 | 10.080 | 10.132 | VV | 3101  | 69139   | 0.50%  | 0.010% |
| 146        | 10.152 | 10.132 | 10.186 | VV | 2526  | 57747   | 0.42%  | 0.008% |
| 147        | 10.205 | 10.186 | 10.226 | VV | 2400  | 38458   | 0.28%  | 0.005% |
| 148        | 10.255 | 10.226 | 10.272 | VV | 1303  | 30597   | 0.22%  | 0.004% |
| 149        | 10.303 | 10.272 | 10.321 | VV | 1847  | 41473   | 0.30%  | 0.006% |
| 150        | 10.344 | 10.321 | 10.354 | VV | 2284  | 38817   | 0.28%  | 0.005% |
| 151        | 10.365 | 10.354 | 10.376 | VV | 2666  | 31957   | 0.23%  | 0.004% |
| 152        | 10.408 | 10.376 | 10.444 | VV | 12028 | 232760  | 1.69%  | 0.032% |
| 153        | 10.483 | 10.444 | 10.511 | VV | 13573 | 262165  | 1.90%  | 0.036% |
| 154        | 10.519 | 10.511 | 10.557 | VV | 3794  | 87927   | 0.64%  | 0.012% |
| 155        | 10.610 | 10.557 | 10.626 | VV | 8069  | 180798  | 1.31%  | 0.025% |
| 156        | 10.640 | 10.626 | 10.664 | VV | 7078  | 122328  | 0.89%  | 0.017% |
| 157        | 10.675 | 10.664 | 10.688 | VV | 4011  | 54763   | 0.40%  | 0.008% |
| 158        | 10.728 | 10.688 | 10.747 | VV | 6112  | 172075  | 1.25%  | 0.024% |
| 159        | 10.807 | 10.747 | 10.837 | VV | 16849 | 473764  | 3.44%  | 0.065% |
| 160        | 10.860 | 10.837 | 10.878 | VV | 8366  | 187368  | 1.36%  | 0.026% |
| 161        | 10.887 | 10.878 | 10.902 | VV | 7606  | 102760  | 0.75%  | 0.014% |
| 162        | 10.917 | 10.902 | 10.929 | VV | 7876  | 118312  | 0.86%  | 0.016% |
| 163        | 10.951 | 10.929 | 10.967 | VV | 10619 | 205960  | 1.50%  | 0.028% |
| 164        | 10.987 | 10.967 | 10.997 | VV | 10987 | 172977  | 1.26%  | 0.024% |
| 165        | 11.010 | 10.997 | 11.021 | VV | 11321 | 156825  | 1.14%  | 0.022% |
| 166        | 11.043 | 11.021 | 11.065 | VV | 15061 | 339087  | 2.46%  | 0.047% |
| 167        | 11.112 | 11.065 | 11.151 | VV | 27402 | 820687  | 5.96%  | 0.113% |
| 168        | 11.202 | 11.151 | 11.230 | VV | 23655 | 793807  | 5.77%  | 0.109% |
| 169        | 11.243 | 11.230 | 11.254 | VV | 13769 | 192691  | 1.40%  | 0.027% |
| 170        | 11.271 | 11.254 | 11.289 | VV | 13977 | 282212  | 2.05%  | 0.039% |
| 171        | 11.312 | 11.289 | 11.328 | VV | 16370 | 353291  | 2.57%  | 0.049% |
| 172        | 11.357 | 11.328 | 11.367 | VV | 16845 | 379666  | 2.76%  | 0.052% |
| 173        | 11.406 | 11.367 | 11.447 | VV | 21733 | 951982  | 6.92%  | 0.131% |
| 174        | 11.467 | 11.447 | 11.477 | VV | 20690 | 351987  | 2.56%  | 0.049% |
| 175        | 11.505 | 11.477 | 11.529 | VV | 23705 | 686774  | 4.99%  | 0.095% |
| 176        | 11.549 | 11.529 | 11.572 | VV | 22952 | 554429  | 4.03%  | 0.076% |
| 177        | 11.597 | 11.572 | 11.612 | VV | 25091 | 558277  | 4.06%  | 0.077% |
| 178        | 11.631 | 11.612 | 11.638 | VV | 22892 | 344106  | 2.50%  | 0.047% |
| 179        | 11.664 | 11.638 | 11.681 | VV | 25512 | 610346  | 4.43%  | 0.084% |
| 180        | 11.713 | 11.681 | 11.729 | VV | 29808 | 762830  | 5.54%  | 0.105% |
| 181        | 11.777 | 11.729 | 11.801 | VV | 42448 | 1423664 | 10.34% | 0.196% |
| 182        | 11.825 | 11.801 | 11.834 | VV | 31101 | 605830  | 4.40%  | 0.084% |
| 183        | 11.880 | 11.834 | 11.904 | VV | 33296 | 1346226 | 9.78%  | 0.186% |
| 184        | 11.922 | 11.904 | 11.953 | VV | 33348 | 922964  | 6.70%  | 0.127% |
| 185        | 11.989 | 11.953 | 12.011 | VV | 34608 | 1115104 | 8.10%  | 0.154% |
| 186        | 12.052 | 12.011 | 12.062 | VV | 39271 | 1122434 | 8.15%  | 0.155% |
| 187        | 12.078 | 12.062 | 12.099 | VV | 40805 | 862688  | 6.27%  | 0.119% |
| 188        | 12.157 | 12.099 | 12.175 | VV | 43034 | 1841997 | 13.38% | 0.254% |
| 189        | 12.191 | 12.175 | 12.214 | VV | 43638 | 977948  | 7.10%  | 0.135% |
| 190        | 12.265 | 12.214 | 12.284 | VV | 44074 | 1735307 | 12.60% | 0.239% |
| 191        | 12.325 | 12.284 | 12.396 | VV | 58720 | 3293265 | 23.92% | 0.454% |
| 192        | 12.417 | 12.396 | 12.439 | VV | 68841 | 1501779 | 10.91% | 0.207% |
| 193        | 12.448 | 12.439 | 12.464 | VV | 53339 | 787621  | 5.72%  | 0.109% |
| 194        | 12.485 | 12.464 | 12.495 | VV | 53939 | 971072  | 7.05%  | 0.134% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 195 | 12.514 | 12.495 | 12.539 | VV | 56399      | 1409136 | 10.24% | 0.194% |
| 196 | 12.559 | 12.539 | 12.578 | VV | 57132      | 1277460 | 9.28%  | 0.176% |
| 197 | 12.614 | 12.578 | 12.631 | VV | 56734      | 1696585 | 12.32% | 0.234% |
| 198 | 12.671 | 12.631 | 12.693 | VV | 66294      | 2295513 | 16.67% | 0.316% |
| 199 | 12.709 | 12.693 | 12.726 | VV | 67366      | 1258936 | 9.14%  | 0.174% |
| 200 | 12.741 | 12.726 | 12.756 | VV | 65734      | 1136618 | 8.26%  | 0.157% |
| 201 | 12.774 | 12.756 | 12.811 | VV | 74480      | 2258172 | 16.40% | 0.311% |
| 202 | 12.818 | 12.811 | 12.829 | VV | 67725      | 702838  | 5.11%  | 0.097% |
| 203 | 12.861 | 12.829 | 12.889 | VV | 322499     | 5479831 | 39.80% | 0.755% |
| 204 | 12.915 | 12.889 | 12.944 | VV | 81773      | 2514857 | 18.27% | 0.347% |
| 205 | 12.956 | 12.944 | 12.982 | VV | 78355      | 1730760 | 12.57% | 0.239% |
| 206 | 13.034 | 12.982 | 13.077 | VV | 92353      | 4657338 | 33.83% | 0.642% |
| 207 | 13.096 | 13.077 | 13.112 | VV | 92149      | 1810989 | 13.15% | 0.250% |
| 208 | 13.131 | 13.112 | 13.159 | VV | 88852      | 2397494 | 17.41% | 0.331% |
| 209 | 13.183 | 13.159 | 13.211 | VV | 86254      | 2605802 | 18.93% | 0.359% |
| 210 | 13.257 | 13.211 | 13.284 | VV | 100780     | 4048811 | 29.41% | 0.558% |
| 211 | 13.300 | 13.284 | 13.321 | VV | 98784      | 2129252 | 15.47% | 0.294% |
| 212 | 13.345 | 13.321 | 13.356 | VV | 98506      | 2009216 | 14.59% | 0.277% |
| 213 | 13.377 | 13.356 | 13.397 | VV | 99128      | 2405953 | 17.48% | 0.332% |
| 214 | 13.406 | 13.397 | 13.413 | VV | 97993      | 918755  | 6.67%  | 0.127% |
| 215 | 13.461 | 13.413 | 13.481 | VV | 108070     | 4121567 | 29.94% | 0.568% |
| 216 | 13.528 | 13.481 | 13.571 | VV | 113444     | 5777637 | 41.97% | 0.797% |
| 217 | 13.607 | 13.571 | 13.623 | VV | 116117     | 3443372 | 25.01% | 0.475% |
| 218 | 13.672 | 13.623 | 13.681 | VV | 117357     | 3892233 | 28.27% | 0.537% |
| 219 | 13.695 | 13.681 | 13.713 | VV | 117343     | 2215198 | 16.09% | 0.305% |
| 220 | 13.730 | 13.713 | 13.742 | VV | 116378     | 2010673 | 14.61% | 0.277% |
| 221 | 13.755 | 13.742 | 13.779 | VV | 117361     | 2475220 | 17.98% | 0.341% |
| 222 | 13.844 | 13.779 | 13.874 | VV | 137085     | 7099599 | 51.57% | 0.979% |
| 223 | 13.885 | 13.874 | 13.894 | VV | 126488     | 1473055 | 10.70% | 0.203% |
| 224 | 13.911 | 13.894 | 13.954 | VV | 127510     | 4468774 | 32.46% | 0.616% |
| 225 | 13.964 | 13.954 | 13.974 | VV | 122182     | 1455975 | 10.58% | 0.201% |
| 226 | 14.002 | 13.974 | 14.012 | VV | 135954     | 2933964 | 21.31% | 0.404% |
| 227 | 14.030 | 14.012 | 14.053 | VV | 138694     | 3238147 | 23.52% | 0.446% |
| 228 | 14.063 | 14.053 | 14.081 | VV | 132436     | 2147992 | 15.60% | 0.296% |
| 229 | 14.103 | 14.081 | 14.134 | VV | 141328     | 4255780 | 30.91% | 0.587% |
| 230 | 14.148 | 14.134 | 14.158 | VV | 130142     | 1862881 | 13.53% | 0.257% |
| 231 | 14.178 | 14.158 | 14.195 | VV | 141495     | 2961734 | 21.51% | 0.408% |
| 232 | 14.249 | 14.195 | 14.268 | VV | 145891     | 6059559 | 44.02% | 0.835% |
| 233 | 14.282 | 14.268 | 14.297 | VV | 142150     | 2472558 | 17.96% | 0.341% |
| 234 | 14.307 | 14.297 | 14.331 | VV | 146861     | 2798304 | 20.33% | 0.386% |
| 235 | 14.379 | 14.331 | 14.395 | VV | 147537     | 5419774 | 39.37% | 0.747% |
| 236 | 14.417 | 14.395 | 14.473 | VV | 155174     | 6933705 | 50.37% | 0.956% |
| 237 | 14.488 | 14.473 | 14.517 | VV | 147781     | 3728974 | 27.09% | 0.514% |
| 238 | 14.569 | 14.517 | 14.592 | VV | 153389     | 6609393 | 48.01% | 0.911% |
| 239 | 14.616 | 14.592 | 14.674 | VV | 156003     | 7364243 | 53.49% | 1.015% |
| 240 | 14.718 | 14.674 | 14.734 | VV | 160401     | 5498001 | 39.94% | 0.758% |
| 241 | 14.768 | 14.734 | 14.782 | VV | 166223     | 4546514 | 33.03% | 0.627% |
| 242 | 14.794 | 14.782 | 14.817 | VV | 162456     | 3330801 | 24.19% | 0.459% |
| 243 | 14.851 | 14.817 | 14.861 | VV | 160460     | 4072661 | 29.58% | 0.561% |
| 244 | 14.871 | 14.861 | 14.892 | VV | 159742     | 2938501 | 21.34% | 0.405% |
| 245 | 14.911 | 14.892 | 14.929 | VV | 168510     | 3550355 | 25.79% | 0.489% |
| 246 | 14.957 | 14.929 | 14.989 | VV | 168005     | 5853203 | 42.52% | 0.807% |

|     |        |        |        |    | rteres.txt |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
| 247 | 15.013 | 14.989 | 15.026 | VV | 167272     | 3583716  | 26.03% | 0.494% |
| 248 | 15.049 | 15.026 | 15.060 | VV | 169068     | 3372876  | 24.50% | 0.465% |
| 249 | 15.074 | 15.060 | 15.087 | VV | 168252     | 2667552  | 19.38% | 0.368% |
| 250 | 15.105 | 15.087 | 15.129 | VV | 169160     | 4154234  | 30.18% | 0.573% |
| 251 | 15.143 | 15.129 | 15.197 | VV | 176004     | 6955645  | 50.52% | 0.959% |
| 252 | 15.259 | 15.197 | 15.269 | VV | 181845     | 7418625  | 53.89% | 1.023% |
| 253 | 15.285 | 15.269 | 15.326 | VV | 187565     | 6099286  | 44.30% | 0.841% |
| 254 | 15.344 | 15.326 | 15.381 | VV | 178099     | 5640950  | 40.97% | 0.778% |
| 255 | 15.410 | 15.381 | 15.426 | VV | 177995     | 4616521  | 33.53% | 0.636% |
| 256 | 15.439 | 15.426 | 15.457 | VV | 184850     | 3427133  | 24.89% | 0.472% |
| 257 | 15.463 | 15.457 | 15.471 | VV | 180116     | 1486488  | 10.80% | 0.205% |
| 258 | 15.479 | 15.471 | 15.504 | VV | 183374     | 3469643  | 25.20% | 0.478% |
| 259 | 15.551 | 15.504 | 15.575 | VV | 191965     | 7844538  | 56.98% | 1.081% |
| 260 | 15.588 | 15.575 | 15.600 | VV | 189752     | 2789785  | 20.26% | 0.385% |
| 261 | 15.618 | 15.600 | 15.631 | VV | 192728     | 3403323  | 24.72% | 0.469% |
| 262 | 15.635 | 15.631 | 15.648 | VV | 190983     | 1919311  | 13.94% | 0.265% |
| 263 | 15.664 | 15.648 | 15.676 | VV | 183680     | 3040881  | 22.09% | 0.419% |
| 264 | 15.680 | 15.676 | 15.686 | VV | 184942     | 1101779  | 8.00%  | 0.152% |
| 265 | 15.740 | 15.686 | 15.758 | VV | 198483     | 8238301  | 59.84% | 1.136% |
| 266 | 15.779 | 15.758 | 15.802 | VV | 197689     | 5100986  | 37.05% | 0.703% |
| 267 | 15.813 | 15.802 | 15.834 | VV | 199259     | 3648980  | 26.51% | 0.503% |
| 268 | 15.851 | 15.834 | 15.876 | VV | 192173     | 4712663  | 34.23% | 0.650% |
| 269 | 15.908 | 15.876 | 15.942 | VV | 220174     | 8130894  | 59.06% | 1.121% |
| 270 | 15.960 | 15.942 | 15.989 | VV | 204919     | 5639848  | 40.97% | 0.778% |
| 271 | 16.039 | 15.989 | 16.061 | VV | 221408     | 9118898  | 66.24% | 1.257% |
| 272 | 16.068 | 16.061 | 16.087 | VV | 218041     | 3401485  | 24.71% | 0.469% |
| 273 | 16.103 | 16.087 | 16.131 | VV | 218432     | 5456997  | 39.64% | 0.752% |
| 274 | 16.158 | 16.131 | 16.181 | VV | 215809     | 6023538  | 43.75% | 0.830% |
| 275 | 16.214 | 16.181 | 16.235 | VV | 212885     | 6621346  | 48.10% | 0.913% |
| 276 | 16.247 | 16.235 | 16.267 | VV | 207604     | 3957531  | 28.75% | 0.546% |
| 277 | 16.293 | 16.267 | 16.357 | VV | 214953     | 11180876 | 81.22% | 1.541% |
| 278 | 16.376 | 16.357 | 16.394 | VV | 217104     | 4657963  | 33.83% | 0.642% |
| 279 | 16.400 | 16.394 | 16.417 | VV | 218316     | 2925695  | 21.25% | 0.403% |
| 280 | 16.438 | 16.417 | 16.474 | VV | 218678     | 7037539  | 51.12% | 0.970% |
| 281 | 16.481 | 16.474 | 16.498 | VV | 204969     | 2918812  | 21.20% | 0.402% |
| 282 | 16.527 | 16.498 | 16.577 | VV | 257833     | 10607621 | 77.05% | 1.462% |
| 283 | 16.597 | 16.577 | 16.617 | VV | 205720     | 4819675  | 35.01% | 0.664% |
| 284 | 16.646 | 16.617 | 16.666 | VV | 225739     | 6253679  | 45.43% | 0.862% |
| 285 | 16.692 | 16.666 | 16.741 | VV | 254229     | 10047240 | 72.98% | 1.385% |
| 286 | 16.742 | 16.741 | 16.771 | VV | 211506     | 3744441  | 27.20% | 0.516% |
| 287 | 16.787 | 16.771 | 16.797 | VV | 215638     | 3274724  | 23.79% | 0.451% |
| 288 | 16.814 | 16.797 | 16.822 | VV | 217323     | 3248691  | 23.60% | 0.448% |
| 289 | 16.848 | 16.822 | 16.877 | VV | 225320     | 7141014  | 51.87% | 0.984% |
| 290 | 16.899 | 16.877 | 16.947 | VV | 267031     | 9839570  | 71.47% | 1.357% |
| 291 | 16.970 | 16.947 | 16.984 | VV | 219148     | 4661395  | 33.86% | 0.643% |
| 292 | 16.997 | 16.984 | 17.032 | VV | 217721     | 6094232  | 44.27% | 0.840% |
| 293 | 17.066 | 17.032 | 17.104 | VV | 221637     | 8957429  | 65.07% | 1.235% |
| 294 | 17.129 | 17.104 | 17.171 | VV | 230766     | 8506491  | 61.79% | 1.173% |
| 295 | 17.184 | 17.171 | 17.206 | VV | 202726     | 4149533  | 30.14% | 0.572% |
| 296 | 17.235 | 17.206 | 17.260 | VV | 220377     | 6696756  | 48.64% | 0.923% |
| 297 | 17.268 | 17.260 | 17.304 | VV | 199521     | 5083973  | 36.93% | 0.701% |
| 298 | 17.310 | 17.304 | 17.346 | VV | 189773     | 4595529  | 33.38% | 0.634% |
| 299 | 17.380 | 17.346 | 17.434 | VV | 211245     | 10360645 | 75.26% | 1.428% |

|     |        |        |        |    |            |          |         |        |
|-----|--------|--------|--------|----|------------|----------|---------|--------|
|     |        |        |        |    | rteres.txt |          |         |        |
| 300 | 17.456 | 17.434 | 17.472 | VV | 202456     | 4380215  | 31.82%  | 0.604% |
| 301 | 17.482 | 17.472 | 17.502 | VV | 184724     | 3155171  | 22.92%  | 0.435% |
| 302 | 17.533 | 17.502 | 17.591 | VV | 254518     | 10941650 | 79.48%  | 1.508% |
| 303 | 17.601 | 17.591 | 17.619 | VV | 178312     | 2934790  | 21.32%  | 0.405% |
| 304 | 17.637 | 17.619 | 17.656 | VV | 175983     | 3769301  | 27.38%  | 0.520% |
| 305 | 17.691 | 17.656 | 17.776 | VV | 228662     | 13766883 | 100.00% | 1.898% |
| 306 | 17.796 | 17.776 | 17.819 | VV | 167861     | 4116241  | 29.90%  | 0.567% |
| 307 | 17.843 | 17.819 | 17.882 | VV | 164871     | 6026590  | 43.78%  | 0.831% |
| 308 | 17.896 | 17.882 | 17.911 | VV | 163857     | 2686106  | 19.51%  | 0.370% |
| 309 | 17.929 | 17.911 | 17.967 | VV | 159161     | 5284861  | 38.39%  | 0.729% |
| 310 | 17.987 | 17.967 | 18.026 | VV | 159877     | 5258967  | 38.20%  | 0.725% |
| 311 | 18.055 | 18.026 | 18.104 | VV | 202534     | 7436478  | 54.02%  | 1.025% |
| 312 | 18.125 | 18.104 | 18.156 | VV | 141891     | 4214292  | 30.61%  | 0.581% |
| 313 | 18.180 | 18.156 | 18.242 | VV | 153546     | 7201468  | 52.31%  | 0.993% |
| 314 | 18.253 | 18.242 | 18.268 | VV | 130080     | 1934877  | 14.05%  | 0.267% |
| 315 | 18.283 | 18.268 | 18.324 | VV | 129763     | 4180300  | 30.36%  | 0.576% |
| 316 | 18.366 | 18.324 | 18.437 | VV | 166410     | 8814523  | 64.03%  | 1.215% |
| 317 | 18.478 | 18.437 | 18.504 | VV | 136230     | 4893837  | 35.55%  | 0.675% |
| 318 | 18.529 | 18.504 | 18.550 | VV | 134344     | 3380816  | 24.56%  | 0.466% |
| 319 | 18.566 | 18.550 | 18.588 | VV | 116564     | 2581749  | 18.75%  | 0.356% |
| 320 | 18.604 | 18.588 | 18.622 | VV | 112555     | 2237684  | 16.25%  | 0.308% |
| 321 | 18.641 | 18.622 | 18.651 | VV | 112746     | 1847025  | 13.42%  | 0.255% |
| 322 | 18.668 | 18.651 | 18.683 | VV | 112015     | 2075707  | 15.08%  | 0.286% |
| 323 | 18.690 | 18.683 | 18.702 | VV | 109423     | 1253937  | 9.11%   | 0.173% |
| 324 | 18.706 | 18.702 | 18.756 | VV | 106820     | 3277593  | 23.81%  | 0.452% |
| 325 | 18.807 | 18.756 | 18.852 | VV | 121458     | 6230427  | 45.26%  | 0.859% |
| 326 | 18.871 | 18.852 | 18.907 | VV | 107868     | 3303306  | 23.99%  | 0.455% |
| 327 | 18.927 | 18.907 | 18.942 | VV | 101432     | 2023881  | 14.70%  | 0.279% |
| 328 | 18.964 | 18.942 | 19.014 | VV | 104562     | 4231783  | 30.74%  | 0.583% |
| 329 | 19.025 | 19.014 | 19.045 | VV | 94838      | 1749498  | 12.71%  | 0.241% |
| 330 | 19.056 | 19.045 | 19.077 | VV | 97750      | 1816638  | 13.20%  | 0.250% |
| 331 | 19.083 | 19.077 | 19.105 | VV | 92290      | 1489942  | 10.82%  | 0.205% |
| 332 | 19.150 | 19.105 | 19.169 | VV | 120151     | 3937761  | 28.60%  | 0.543% |
| 333 | 19.185 | 19.169 | 19.259 | VV | 108874     | 5122911  | 37.21%  | 0.706% |
| 334 | 19.275 | 19.259 | 19.317 | VV | 93778      | 3133290  | 22.76%  | 0.432% |
| 335 | 19.325 | 19.317 | 19.365 | VV | 88481      | 2485707  | 18.06%  | 0.343% |
| 336 | 19.377 | 19.365 | 19.399 | VV | 85913      | 1731072  | 12.57%  | 0.239% |
| 337 | 19.403 | 19.399 | 19.416 | VV | 85522      | 834011   | 6.06%   | 0.115% |
| 338 | 19.428 | 19.416 | 19.452 | VV | 84086      | 1833534  | 13.32%  | 0.253% |
| 339 | 19.460 | 19.452 | 19.529 | VV | 85330      | 3775107  | 27.42%  | 0.520% |
| 340 | 19.546 | 19.529 | 19.555 | VV | 89594      | 1352022  | 9.82%   | 0.186% |
| 341 | 19.577 | 19.555 | 19.633 | VV | 94445      | 3930445  | 28.55%  | 0.542% |
| 342 | 19.644 | 19.633 | 19.664 | VV | 76019      | 1389954  | 10.10%  | 0.192% |
| 343 | 19.684 | 19.664 | 19.698 | VV | 79291      | 1596380  | 11.60%  | 0.220% |
| 344 | 19.710 | 19.698 | 19.737 | VV | 77957      | 1771695  | 12.87%  | 0.244% |
| 345 | 19.749 | 19.737 | 19.761 | VV | 77125      | 1048193  | 7.61%   | 0.145% |
| 346 | 19.781 | 19.761 | 19.796 | VV | 77454      | 1573649  | 11.43%  | 0.217% |
| 347 | 19.803 | 19.796 | 19.822 | VV | 77047      | 1209118  | 8.78%   | 0.167% |
| 348 | 19.834 | 19.822 | 19.852 | VV | 76869      | 1338160  | 9.72%   | 0.184% |
| 349 | 19.888 | 19.852 | 19.926 | VV | 102611     | 3764775  | 27.35%  | 0.519% |
| 350 | 19.958 | 19.926 | 19.989 | VV | 79533      | 2933089  | 21.31%  | 0.404% |
| 351 | 20.007 | 19.989 | 20.059 | VV | 76438      | 3079530  | 22.37%  | 0.425% |

|                         |        |        |        |     | rteres.txt |           |        |        |
|-------------------------|--------|--------|--------|-----|------------|-----------|--------|--------|
| 352                     | 20.091 | 20.059 | 20.119 | VV  | 78066      | 2685492   | 19.51% | 0.370% |
| 353                     | 20.132 | 20.119 | 20.142 | VV  | 74049      | 1032662   | 7.50%  | 0.142% |
| 354                     | 20.153 | 20.142 | 20.184 | VV  | 74656      | 1804175   | 13.11% | 0.249% |
| 355                     | 20.193 | 20.184 | 20.209 | VV  | 70670      | 1043496   | 7.58%  | 0.144% |
| 356                     | 20.225 | 20.209 | 20.233 | VV  | 70907      | 987158    | 7.17%  | 0.136% |
| 357                     | 20.281 | 20.233 | 20.299 | VV  | 77270      | 2892082   | 21.01% | 0.399% |
| 358                     | 20.308 | 20.299 | 20.322 | VV  | 72614      | 984232    | 7.15%  | 0.136% |
| 359                     | 20.368 | 20.322 | 20.446 | VV  | 75571      | 5176614   | 37.60% | 0.714% |
| 360                     | 20.459 | 20.446 | 20.487 | VV  | 65827      | 1598111   | 11.61% | 0.220% |
| 361                     | 20.511 | 20.487 | 20.523 | VV  | 63438      | 1303223   | 9.47%  | 0.180% |
| 362                     | 20.540 | 20.523 | 20.556 | VV  | 60758      | 1195094   | 8.68%  | 0.165% |
| 363                     | 20.601 | 20.556 | 20.666 | VV  | 76436      | 4223053   | 30.68% | 0.582% |
| 364                     | 20.675 | 20.666 | 20.699 | VV  | 56081      | 1083972   | 7.87%  | 0.149% |
| 365                     | 20.705 | 20.699 | 20.752 | VV  | 52615      | 1580402   | 11.48% | 0.218% |
| 366                     | 20.766 | 20.752 | 20.796 | VV  | 49867      | 1258811   | 9.14%  | 0.174% |
| 367                     | 20.822 | 20.796 | 20.842 | VV  | 48083      | 1298186   | 9.43%  | 0.179% |
| 368                     | 20.855 | 20.842 | 20.875 | VV  | 46304      | 865795    | 6.29%  | 0.119% |
| 369                     | 20.887 | 20.875 | 20.949 | VV  | 45088      | 1956800   | 14.21% | 0.270% |
| 370                     | 20.967 | 20.949 | 20.999 | VV  | 43186      | 1238918   | 9.00%  | 0.171% |
| 371                     | 21.019 | 20.999 | 21.034 | VV  | 41117      | 839990    | 6.10%  | 0.116% |
| 372                     | 21.053 | 21.034 | 21.076 | VV  | 38720      | 931395    | 6.77%  | 0.128% |
| 373                     | 21.085 | 21.076 | 21.107 | VV  | 36121      | 674785    | 4.90%  | 0.093% |
| 374                     | 21.117 | 21.107 | 21.133 | VV  | 37370      | 548490    | 3.98%  | 0.076% |
| 375                     | 21.143 | 21.133 | 21.156 | VV  | 36127      | 495166    | 3.60%  | 0.068% |
| 376                     | 21.182 | 21.156 | 21.229 | VV  | 35747      | 1530800   | 11.12% | 0.211% |
| 377                     | 21.242 | 21.229 | 21.257 | VV  | 35563      | 578063    | 4.20%  | 0.080% |
| 378                     | 21.267 | 21.257 | 21.277 | VV  | 33979      | 405394    | 2.94%  | 0.056% |
| 379                     | 21.286 | 21.277 | 21.318 | VV  | 32966      | 774871    | 5.63%  | 0.107% |
| 380                     | 21.327 | 21.318 | 21.371 | VV  | 32407      | 963512    | 7.00%  | 0.133% |
| 381                     | 21.382 | 21.371 | 21.406 | VV  | 29232      | 599596    | 4.36%  | 0.083% |
| 382                     | 21.415 | 21.406 | 21.422 | VV  | 29463      | 287696    | 2.09%  | 0.040% |
| 383                     | 21.446 | 21.422 | 21.497 | VV  | 34068      | 1316668   | 9.56%  | 0.182% |
| 384                     | 21.506 | 21.497 | 21.529 | VV  | 25070      | 461228    | 3.35%  | 0.064% |
| 385                     | 21.547 | 21.529 | 21.569 | VV  | 25290      | 589214    | 4.28%  | 0.081% |
| 386                     | 21.580 | 21.569 | 21.601 | VBA | 24410      | 481010    | 3.49%  | 0.066% |
| Sum of corrected areas: |        |        |        |     |            | 725357918 |        |        |

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