

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_C\Data\FC112018AL\  
 Data File : FC037793.D  
 Signal(s) : FID1A.CH  
 Acq On : 21 Nov 2018 1:46  
 Sample : J5763-01  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_C\Method\Alaphatic EPH 111318.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         | 3.095       | 3.029        | 3.105      | BV       | 221            | 3017         | 0.00%          | 0.001%        |
| 2         | 3.131       | 3.105        | 3.210      | VV       | 3827           | 50170        | 0.08%          | 0.019%        |
| 3         | 3.225       | 3.210        | 3.233      | PV       | 299            | 2750         | 0.00%          | 0.001%        |
| 4         | 3.246       | 3.233        | 3.259      | VV       | 551            | 5654         | 0.01%          | 0.002%        |
| 5         | 3.271       | 3.259        | 3.292      | VV       | 527            | 5709         | 0.01%          | 0.002%        |
| 6         | 3.307       | 3.292        | 3.317      | VV       | 464            | 4391         | 0.01%          | 0.002%        |
| 7         | 3.329       | 3.317        | 3.345      | VV       | 575            | 6158         | 0.01%          | 0.002%        |
| 8         | 3.361       | 3.345        | 3.371      | VV       | 385            | 3737         | 0.01%          | 0.001%        |
| 9         | 3.388       | 3.371        | 3.422      | VV       | 1846           | 23625        | 0.04%          | 0.009%        |
| 10        | 3.455       | 3.422        | 3.482      | PV       | 772            | 14499        | 0.02%          | 0.006%        |
| 11        | 3.499       | 3.482        | 3.540      | VV       | 2919           | 42634        | 0.07%          | 0.016%        |
| 12        | 3.569       | 3.540        | 3.596      | VV       | 2065           | 31615        | 0.05%          | 0.012%        |
| 13        | 3.617       | 3.596        | 3.647      | VV       | 2628           | 40174        | 0.07%          | 0.015%        |
| 14        | 3.657       | 3.647        | 3.679      | VV       | 2222           | 19509        | 0.03%          | 0.007%        |
| 15        | 3.702       | 3.679        | 3.754      | VV       | 3694           | 63289        | 0.10%          | 0.024%        |
| 16        | 3.792       | 3.754        | 3.804      | PV       | 6410           | 69081        | 0.11%          | 0.026%        |
| 17        | 3.820       | 3.804        | 3.838      | VV       | 6171           | 74157        | 0.12%          | 0.028%        |
| 18        | 3.851       | 3.838        | 3.868      | VV       | 2241           | 32820        | 0.05%          | 0.013%        |
| 19        | 3.886       | 3.868        | 3.907      | VV       | 5414           | 59781        | 0.10%          | 0.023%        |
| 20        | 3.918       | 3.907        | 3.929      | VV       | 596            | 6622         | 0.01%          | 0.003%        |
| 21        | 3.952       | 3.929        | 3.979      | VV       | 8671           | 124412       | 0.20%          | 0.048%        |
| 22        | 3.992       | 3.979        | 4.017      | VV       | 3531           | 50313        | 0.08%          | 0.019%        |
| 23        | 4.026       | 4.017        | 4.069      | VV       | 1685           | 26316        | 0.04%          | 0.010%        |
| 24        | 4.099       | 4.069        | 4.122      | PV       | 2018           | 28029        | 0.05%          | 0.011%        |
| 25        | 4.140       | 4.122        | 4.162      | VV       | 2985           | 36714        | 0.06%          | 0.014%        |
| 26        | 4.191       | 4.162        | 4.212      | VV       | 32082          | 306827       | 0.50%          | 0.117%        |
| 27        | 4.227       | 4.212        | 4.244      | VV       | 6428           | 62204        | 0.10%          | 0.024%        |
| 28        | 4.258       | 4.244        | 4.275      | VV       | 3202           | 34233        | 0.06%          | 0.013%        |
| 29        | 4.289       | 4.275        | 4.315      | VV       | 1384           | 18197        | 0.03%          | 0.007%        |
| 30        | 4.350       | 4.315        | 4.366      | VV       | 2611           | 48577        | 0.08%          | 0.019%        |
| 31        | 4.381       | 4.366        | 4.404      | VV       | 2908           | 48979        | 0.08%          | 0.019%        |
| 32        | 4.414       | 4.404        | 4.427      | VV       | 2525           | 26650        | 0.04%          | 0.010%        |
| 33        | 4.442       | 4.427        | 4.455      | VV       | 10513          | 96023        | 0.16%          | 0.037%        |
| 34        | 4.464       | 4.455        | 4.479      | VV       | 4966           | 45679        | 0.07%          | 0.017%        |
| 35        | 4.496       | 4.479        | 4.505      | VV       | 3969           | 47271        | 0.08%          | 0.018%        |
| 36        | 4.514       | 4.505        | 4.528      | VV       | 4453           | 41844        | 0.07%          | 0.016%        |

| rteres.txt |       |       |       |    |        |         |       |        |
|------------|-------|-------|-------|----|--------|---------|-------|--------|
| 37         | 4.563 | 4.528 | 4.575 | VV | 7995   | 109896  | 0.18% | 0.042% |
| 38         | 4.603 | 4.575 | 4.621 | VV | 7753   | 129719  | 0.21% | 0.050% |
| 39         | 4.644 | 4.621 | 4.685 | VV | 10152  | 162165  | 0.26% | 0.062% |
| 40         | 4.710 | 4.685 | 4.727 | VV | 7097   | 78268   | 0.13% | 0.030% |
| 41         | 4.741 | 4.727 | 4.765 | VV | 2981   | 35931   | 0.06% | 0.014% |
| 42         | 4.797 | 4.765 | 4.809 | PV | 8443   | 89439   | 0.15% | 0.034% |
| 43         | 4.826 | 4.809 | 4.850 | VV | 14930  | 202152  | 0.33% | 0.077% |
| 44         | 4.866 | 4.850 | 4.883 | VV | 13762  | 150112  | 0.24% | 0.057% |
| 45         | 4.897 | 4.883 | 4.912 | VV | 8850   | 103293  | 0.17% | 0.039% |
| 46         | 4.927 | 4.912 | 4.962 | VV | 13259  | 159694  | 0.26% | 0.061% |
| 47         | 4.977 | 4.962 | 4.999 | VV | 1165   | 18702   | 0.03% | 0.007% |
| 48         | 5.018 | 4.999 | 5.030 | VV | 5088   | 58811   | 0.10% | 0.022% |
| 49         | 5.040 | 5.030 | 5.052 | VV | 4161   | 45877   | 0.07% | 0.018% |
| 50         | 5.083 | 5.052 | 5.096 | VV | 7636   | 138746  | 0.23% | 0.053% |
| 51         | 5.107 | 5.096 | 5.145 | VV | 9037   | 140230  | 0.23% | 0.054% |
| 52         | 5.166 | 5.145 | 5.181 | VV | 4602   | 65865   | 0.11% | 0.025% |
| 53         | 5.222 | 5.181 | 5.272 | VV | 81623  | 1042564 | 1.70% | 0.398% |
| 54         | 5.290 | 5.272 | 5.324 | VV | 2985   | 63381   | 0.10% | 0.024% |
| 55         | 5.341 | 5.324 | 5.353 | VV | 2656   | 32840   | 0.05% | 0.013% |
| 56         | 5.393 | 5.353 | 5.449 | VV | 12686  | 342178  | 0.56% | 0.131% |
| 57         | 5.469 | 5.449 | 5.479 | VV | 7375   | 82874   | 0.14% | 0.032% |
| 58         | 5.507 | 5.479 | 5.534 | VV | 18734  | 400299  | 0.65% | 0.153% |
| 59         | 5.547 | 5.534 | 5.555 | VV | 9099   | 92656   | 0.15% | 0.035% |
| 60         | 5.563 | 5.555 | 5.568 | VV | 7876   | 57283   | 0.09% | 0.022% |
| 61         | 5.584 | 5.568 | 5.611 | VV | 18761  | 264097  | 0.43% | 0.101% |
| 62         | 5.625 | 5.611 | 5.654 | VV | 8272   | 141482  | 0.23% | 0.054% |
| 63         | 5.670 | 5.654 | 5.688 | VV | 11354  | 136429  | 0.22% | 0.052% |
| 64         | 5.719 | 5.688 | 5.739 | VV | 12326  | 226126  | 0.37% | 0.086% |
| 65         | 5.776 | 5.739 | 5.800 | VV | 14019  | 346298  | 0.56% | 0.132% |
| 66         | 5.815 | 5.800 | 5.833 | VV | 14721  | 178959  | 0.29% | 0.068% |
| 67         | 5.858 | 5.833 | 5.875 | VV | 20600  | 259481  | 0.42% | 0.099% |
| 68         | 5.895 | 5.875 | 5.905 | VV | 12885  | 176689  | 0.29% | 0.067% |
| 69         | 5.919 | 5.905 | 5.959 | VV | 20258  | 359366  | 0.59% | 0.137% |
| 70         | 5.974 | 5.959 | 5.987 | VV | 10173  | 124858  | 0.20% | 0.048% |
| 71         | 6.026 | 5.987 | 6.057 | VV | 11931  | 336914  | 0.55% | 0.129% |
| 72         | 6.075 | 6.057 | 6.098 | VV | 10278  | 190502  | 0.31% | 0.073% |
| 73         | 6.122 | 6.098 | 6.175 | VV | 20206  | 429822  | 0.70% | 0.164% |
| 74         | 6.198 | 6.175 | 6.243 | VV | 102257 | 1163136 | 1.89% | 0.444% |
| 75         | 6.280 | 6.243 | 6.292 | VV | 7346   | 155798  | 0.25% | 0.059% |
| 76         | 6.311 | 6.292 | 6.325 | VV | 10668  | 170972  | 0.28% | 0.065% |
| 77         | 6.345 | 6.325 | 6.366 | VV | 35299  | 454608  | 0.74% | 0.174% |
| 78         | 6.384 | 6.366 | 6.403 | VV | 12680  | 226649  | 0.37% | 0.087% |
| 79         | 6.415 | 6.403 | 6.427 | VV | 10362  | 120678  | 0.20% | 0.046% |
| 80         | 6.440 | 6.427 | 6.451 | VV | 9107   | 113103  | 0.18% | 0.043% |
| 81         | 6.467 | 6.451 | 6.488 | VV | 19097  | 249664  | 0.41% | 0.095% |
| 82         | 6.509 | 6.488 | 6.559 | VV | 13903  | 423424  | 0.69% | 0.162% |
| 83         | 6.583 | 6.559 | 6.638 | VV | 46034  | 724821  | 1.18% | 0.277% |
| 84         | 6.658 | 6.638 | 6.676 | VV | 12346  | 201927  | 0.33% | 0.077% |
| 85         | 6.705 | 6.676 | 6.727 | VV | 22648  | 484617  | 0.79% | 0.185% |
| 86         | 6.749 | 6.727 | 6.775 | VV | 26643  | 425690  | 0.69% | 0.163% |
| 87         | 6.804 | 6.775 | 6.835 | VV | 41046  | 755165  | 1.23% | 0.288% |
| 88         | 6.852 | 6.835 | 6.870 | VV | 26634  | 303220  | 0.49% | 0.116% |
| 89         | 6.894 | 6.870 | 6.924 | VV | 35017  | 560271  | 0.91% | 0.214% |

| rteres.txt |       |       |       |    |        |         |       |        |
|------------|-------|-------|-------|----|--------|---------|-------|--------|
| 90         | 6.947 | 6.924 | 6.969 | VV | 17103  | 314751  | 0.51% | 0.120% |
| 91         | 6.989 | 6.969 | 7.005 | VV | 13648  | 192207  | 0.31% | 0.073% |
| 92         | 7.015 | 7.005 | 7.023 | VV | 7982   | 83309   | 0.14% | 0.032% |
| 93         | 7.037 | 7.023 | 7.055 | VV | 9306   | 161294  | 0.26% | 0.062% |
| 94         | 7.084 | 7.055 | 7.096 | VV | 36718  | 484783  | 0.79% | 0.185% |
| 95         | 7.114 | 7.096 | 7.135 | VV | 124805 | 1410499 | 2.30% | 0.539% |
| 96         | 7.144 | 7.135 | 7.152 | VV | 14163  | 132848  | 0.22% | 0.051% |
| 97         | 7.160 | 7.152 | 7.212 | VV | 13409  | 401587  | 0.65% | 0.153% |
| 98         | 7.235 | 7.212 | 7.257 | VV | 9986   | 242117  | 0.39% | 0.092% |
| 99         | 7.283 | 7.257 | 7.313 | VV | 30501  | 630524  | 1.03% | 0.241% |
| 100        | 7.330 | 7.313 | 7.354 | VV | 14822  | 234463  | 0.38% | 0.090% |
| 101        | 7.371 | 7.354 | 7.386 | VV | 12104  | 166900  | 0.27% | 0.064% |
| 102        | 7.414 | 7.386 | 7.458 | VV | 521350 | 5525828 | 9.00% | 2.110% |
| 103        | 7.473 | 7.458 | 7.510 | VV | 20986  | 436623  | 0.71% | 0.167% |
| 104        | 7.531 | 7.510 | 7.549 | VV | 20486  | 346837  | 0.57% | 0.132% |
| 105        | 7.567 | 7.549 | 7.582 | VV | 25456  | 355050  | 0.58% | 0.136% |
| 106        | 7.591 | 7.582 | 7.610 | VV | 17081  | 238378  | 0.39% | 0.091% |
| 107        | 7.631 | 7.610 | 7.650 | VV | 22242  | 355237  | 0.58% | 0.136% |
| 108        | 7.676 | 7.650 | 7.691 | VV | 31047  | 455651  | 0.74% | 0.174% |
| 109        | 7.702 | 7.691 | 7.714 | VV | 24173  | 276690  | 0.45% | 0.106% |
| 110        | 7.730 | 7.714 | 7.754 | VV | 30075  | 433315  | 0.71% | 0.165% |
| 111        | 7.801 | 7.754 | 7.828 | VV | 39117  | 742306  | 1.21% | 0.283% |
| 112        | 7.844 | 7.828 | 7.862 | VV | 11631  | 193551  | 0.32% | 0.074% |
| 113        | 7.888 | 7.862 | 7.905 | VV | 22390  | 393812  | 0.64% | 0.150% |
| 114        | 7.921 | 7.905 | 7.934 | VV | 20054  | 287479  | 0.47% | 0.110% |
| 115        | 7.947 | 7.934 | 7.959 | VV | 19111  | 261450  | 0.43% | 0.100% |
| 116        | 7.980 | 7.959 | 8.010 | VV | 122973 | 1504539 | 2.45% | 0.575% |
| 117        | 8.035 | 8.010 | 8.054 | VV | 21623  | 433858  | 0.71% | 0.166% |
| 118        | 8.071 | 8.054 | 8.106 | VV | 19085  | 410722  | 0.67% | 0.157% |
| 119        | 8.126 | 8.106 | 8.141 | VV | 17236  | 280181  | 0.46% | 0.107% |
| 120        | 8.153 | 8.141 | 8.167 | VV | 14882  | 197149  | 0.32% | 0.075% |
| 121        | 8.187 | 8.167 | 8.234 | VV | 20887  | 482683  | 0.79% | 0.184% |
| 122        | 8.267 | 8.234 | 8.313 | VV | 337948 | 3829504 | 6.24% | 1.462% |
| 123        | 8.328 | 8.313 | 8.374 | VV | 19288  | 587050  | 0.96% | 0.224% |
| 124        | 8.396 | 8.374 | 8.409 | VV | 21343  | 384338  | 0.63% | 0.147% |
| 125        | 8.423 | 8.409 | 8.450 | VV | 21687  | 401636  | 0.65% | 0.153% |
| 126        | 8.468 | 8.450 | 8.491 | VV | 19769  | 372687  | 0.61% | 0.142% |
| 127        | 8.511 | 8.491 | 8.538 | VV | 45852  | 652089  | 1.06% | 0.249% |
| 128        | 8.562 | 8.538 | 8.591 | VV | 20527  | 401882  | 0.65% | 0.153% |
| 129        | 8.606 | 8.591 | 8.620 | VV | 11992  | 177658  | 0.29% | 0.068% |
| 130        | 8.653 | 8.620 | 8.669 | VV | 11750  | 304617  | 0.50% | 0.116% |
| 131        | 8.680 | 8.669 | 8.696 | VV | 9382   | 136488  | 0.22% | 0.052% |
| 132        | 8.731 | 8.696 | 8.750 | VV | 12518  | 330974  | 0.54% | 0.126% |
| 133        | 8.796 | 8.750 | 8.852 | VV | 106073 | 1666968 | 2.72% | 0.637% |
| 134        | 8.877 | 8.852 | 8.898 | VV | 13763  | 261173  | 0.43% | 0.100% |
| 135        | 8.925 | 8.898 | 8.946 | VV | 12871  | 261248  | 0.43% | 0.100% |
| 136        | 8.984 | 8.946 | 9.000 | VV | 11927  | 297665  | 0.48% | 0.114% |
| 137        | 9.010 | 9.000 | 9.044 | VV | 9555   | 214082  | 0.35% | 0.082% |
| 138        | 9.065 | 9.044 | 9.100 | VV | 11382  | 292267  | 0.48% | 0.112% |
| 139        | 9.116 | 9.100 | 9.130 | VV | 8098   | 128462  | 0.21% | 0.049% |
| 140        | 9.164 | 9.130 | 9.198 | VV | 21732  | 512738  | 0.84% | 0.196% |
| 141        | 9.218 | 9.198 | 9.234 | VV | 15224  | 255352  | 0.42% | 0.098% |

| rteres.txt |        |        |        |    |        |          |        |        |
|------------|--------|--------|--------|----|--------|----------|--------|--------|
| 142        | 9.251  | 9.234  | 9.274  | VV | 16555  | 287990   | 0.47%  | 0.110% |
| 143        | 9.296  | 9.274  | 9.314  | VV | 18096  | 274991   | 0.45%  | 0.105% |
| 144        | 9.348  | 9.314  | 9.374  | VV | 16311  | 375620   | 0.61%  | 0.143% |
| 145        | 9.386  | 9.374  | 9.399  | VV | 6323   | 85142    | 0.14%  | 0.033% |
|            |        |        |        |    |        |          |        |        |
| 146        | 9.417  | 9.399  | 9.434  | VV | 5839   | 111579   | 0.18%  | 0.043% |
| 147        | 9.443  | 9.434  | 9.454  | VV | 5478   | 61708    | 0.10%  | 0.024% |
| 148        | 9.477  | 9.454  | 9.490  | VV | 7716   | 143928   | 0.23%  | 0.055% |
| 149        | 9.520  | 9.490  | 9.541  | VV | 12968  | 297071   | 0.48%  | 0.113% |
| 150        | 9.569  | 9.541  | 9.610  | VV | 87271  | 1167259  | 1.90%  | 0.446% |
|            |        |        |        |    |        |          |        |        |
| 151        | 9.643  | 9.610  | 9.661  | VV | 7989   | 198187   | 0.32%  | 0.076% |
| 152        | 9.670  | 9.661  | 9.709  | VV | 6418   | 134548   | 0.22%  | 0.051% |
| 153        | 9.729  | 9.709  | 9.760  | VV | 6914   | 151562   | 0.25%  | 0.058% |
| 154        | 9.801  | 9.760  | 9.819  | VV | 4875   | 139775   | 0.23%  | 0.053% |
| 155        | 9.834  | 9.819  | 9.860  | VV | 4483   | 99439    | 0.16%  | 0.038% |
|            |        |        |        |    |        |          |        |        |
| 156        | 9.886  | 9.860  | 9.895  | VV | 5425   | 99169    | 0.16%  | 0.038% |
| 157        | 9.913  | 9.895  | 9.924  | VV | 10584  | 138165   | 0.23%  | 0.053% |
| 158        | 9.953  | 9.924  | 9.982  | VV | 27672  | 551656   | 0.90%  | 0.211% |
| 159        | 10.005 | 9.982  | 10.027 | VV | 12730  | 248439   | 0.40%  | 0.095% |
| 160        | 10.046 | 10.027 | 10.076 | VV | 12614  | 260554   | 0.42%  | 0.099% |
|            |        |        |        |    |        |          |        |        |
| 161        | 10.096 | 10.076 | 10.115 | VV | 13042  | 190249   | 0.31%  | 0.073% |
| 162        | 10.134 | 10.115 | 10.142 | VV | 5470   | 72755    | 0.12%  | 0.028% |
| 163        | 10.150 | 10.142 | 10.170 | VV | 4946   | 75710    | 0.12%  | 0.029% |
| 164        | 10.194 | 10.170 | 10.215 | VV | 7421   | 156846   | 0.26%  | 0.060% |
| 165        | 10.231 | 10.215 | 10.250 | VV | 7442   | 120746   | 0.20%  | 0.046% |
|            |        |        |        |    |        |          |        |        |
| 166        | 10.304 | 10.250 | 10.330 | VV | 72810  | 1086323  | 1.77%  | 0.415% |
| 167        | 10.375 | 10.330 | 10.455 | VV | 28322  | 790994   | 1.29%  | 0.302% |
| 168        | 10.481 | 10.455 | 10.506 | VV | 4707   | 108070   | 0.18%  | 0.041% |
| 169        | 10.532 | 10.506 | 10.589 | VV | 35655  | 608301   | 0.99%  | 0.232% |
| 170        | 10.619 | 10.589 | 10.658 | VV | 12261  | 331251   | 0.54%  | 0.126% |
|            |        |        |        |    |        |          |        |        |
| 171        | 10.685 | 10.658 | 10.733 | VV | 11123  | 322734   | 0.53%  | 0.123% |
| 172        | 10.756 | 10.733 | 10.785 | VV | 9294   | 171486   | 0.28%  | 0.065% |
| 173        | 10.807 | 10.785 | 10.825 | VV | 7077   | 109784   | 0.18%  | 0.042% |
| 174        | 10.847 | 10.825 | 10.869 | VV | 5663   | 107520   | 0.18%  | 0.041% |
| 175        | 10.899 | 10.869 | 10.909 | VV | 3638   | 72343    | 0.12%  | 0.028% |
|            |        |        |        |    |        |          |        |        |
| 176        | 10.932 | 10.909 | 10.971 | VV | 4800   | 141922   | 0.23%  | 0.054% |
| 177        | 11.002 | 10.971 | 11.035 | VV | 65224  | 815865   | 1.33%  | 0.312% |
| 178        | 11.055 | 11.035 | 11.067 | VV | 8349   | 123453   | 0.20%  | 0.047% |
| 179        | 11.092 | 11.067 | 11.141 | VV | 20597  | 386182   | 0.63%  | 0.147% |
| 180        | 11.156 | 11.141 | 11.163 | VV | 2625   | 32650    | 0.05%  | 0.012% |
|            |        |        |        |    |        |          |        |        |
| 181        | 11.186 | 11.163 | 11.252 | VV | 5295   | 165084   | 0.27%  | 0.063% |
| 182        | 11.301 | 11.252 | 11.346 | VV | 313194 | 3543352  | 5.77%  | 1.353% |
| 183        | 11.362 | 11.346 | 11.380 | VV | 12308  | 188731   | 0.31%  | 0.072% |
| 184        | 11.392 | 11.380 | 11.413 | VV | 9321   | 130015   | 0.21%  | 0.050% |
| 185        | 11.439 | 11.413 | 11.459 | VV | 11511  | 193951   | 0.32%  | 0.074% |
|            |        |        |        |    |        |          |        |        |
| 186        | 11.480 | 11.459 | 11.497 | VV | 11903  | 181610   | 0.30%  | 0.069% |
| 187        | 11.511 | 11.497 | 11.534 | VV | 7746   | 125304   | 0.20%  | 0.048% |
| 188        | 11.556 | 11.534 | 11.600 | VV | 11129  | 200417   | 0.33%  | 0.077% |
| 189        | 11.669 | 11.600 | 11.692 | VV | 51561  | 773593   | 1.26%  | 0.295% |
| 190        | 11.727 | 11.692 | 11.785 | VV | 967353 | 11470384 | 18.69% | 4.380% |
|            |        |        |        |    |        |          |        |        |
| 191        | 11.807 | 11.785 | 11.840 | VV | 3997   | 101039   | 0.16%  | 0.039% |
| 192        | 11.864 | 11.840 | 11.915 | VV | 6808   | 131642   | 0.21%  | 0.050% |
| 193        | 11.941 | 11.915 | 11.964 | PV | 5450   | 102633   | 0.17%  | 0.039% |
| 194        | 11.975 | 11.964 | 11.988 | VV | 4634   | 55251    | 0.09%  | 0.021% |

|            |        |        |        |    |         |          |         |         |
|------------|--------|--------|--------|----|---------|----------|---------|---------|
| rteres.txt |        |        |        |    |         |          |         |         |
| 195        | 12.006 | 11.988 | 12.025 | VV | 6807    | 103963   | 0.17%   | 0.040%  |
| 196        | 12.046 | 12.025 | 12.059 | VV | 5008    | 83154    | 0.14%   | 0.032%  |
| 197        | 12.076 | 12.059 | 12.100 | VV | 7667    | 125092   | 0.20%   | 0.048%  |
| 198        | 12.125 | 12.100 | 12.165 | VV | 7087    | 180553   | 0.29%   | 0.069%  |
| 199        | 12.183 | 12.165 | 12.205 | VV | 9377    | 135546   | 0.22%   | 0.052%  |
| 200        | 12.226 | 12.205 | 12.251 | VV | 10880   | 180399   | 0.29%   | 0.069%  |
| 201        | 12.264 | 12.251 | 12.279 | VV | 5116    | 71831    | 0.12%   | 0.027%  |
| 202        | 12.303 | 12.279 | 12.321 | VV | 47003   | 593019   | 0.97%   | 0.226%  |
| 203        | 12.337 | 12.321 | 12.404 | VV | 48225   | 780897   | 1.27%   | 0.298%  |
| 204        | 12.444 | 12.404 | 12.457 | VV | 2790    | 56736    | 0.09%   | 0.022%  |
| 205        | 12.469 | 12.457 | 12.492 | VV | 2641    | 33153    | 0.05%   | 0.013%  |
| 206        | 12.529 | 12.492 | 12.543 | PV | 2939    | 52357    | 0.09%   | 0.020%  |
| 207        | 12.579 | 12.543 | 12.592 | VV | 5220    | 115727   | 0.19%   | 0.044%  |
| 208        | 12.603 | 12.592 | 12.610 | VV | 5910    | 56500    | 0.09%   | 0.022%  |
| 209        | 12.632 | 12.610 | 12.678 | VV | 42553   | 627422   | 1.02%   | 0.240%  |
| 210        | 12.761 | 12.678 | 12.785 | VV | 2983807 | 61382924 | 100.00% | 23.439% |
| 211        | 12.809 | 12.785 | 12.872 | VV | 1880030 | 25707003 | 41.88%  | 9.816%  |
| 212        | 12.916 | 12.872 | 12.940 | VV | 39751   | 589963   | 0.96%   | 0.225%  |
| 213        | 12.971 | 12.940 | 13.018 | VV | 379752  | 4791964  | 7.81%   | 1.830%  |
| 214        | 13.028 | 13.018 | 13.045 | VV | 7444    | 107184   | 0.17%   | 0.041%  |
| 215        | 13.060 | 13.045 | 13.088 | VV | 6650    | 121845   | 0.20%   | 0.047%  |
| 216        | 13.110 | 13.088 | 13.127 | VV | 7356    | 115761   | 0.19%   | 0.044%  |
| 217        | 13.138 | 13.127 | 13.164 | VV | 5460    | 102802   | 0.17%   | 0.039%  |
| 218        | 13.185 | 13.164 | 13.202 | VV | 4300    | 85849    | 0.14%   | 0.033%  |
| 219        | 13.258 | 13.202 | 13.317 | VV | 28622   | 630654   | 1.03%   | 0.241%  |
| 220        | 13.365 | 13.317 | 13.393 | VV | 11365   | 306136   | 0.50%   | 0.117%  |
| 221        | 13.413 | 13.393 | 13.444 | VV | 8231    | 157574   | 0.26%   | 0.060%  |
| 222        | 13.497 | 13.444 | 13.521 | VV | 36607   | 533718   | 0.87%   | 0.204%  |
| 223        | 13.541 | 13.521 | 13.565 | VV | 11536   | 184434   | 0.30%   | 0.070%  |
| 224        | 13.599 | 13.565 | 13.645 | VV | 8730    | 228415   | 0.37%   | 0.087%  |
| 225        | 13.751 | 13.645 | 13.769 | PV | 26252   | 527018   | 0.86%   | 0.201%  |
| 226        | 13.794 | 13.769 | 13.820 | VV | 14850   | 352813   | 0.57%   | 0.135%  |
| 227        | 13.836 | 13.820 | 13.853 | VV | 7769    | 126625   | 0.21%   | 0.048%  |
| 228        | 13.876 | 13.853 | 13.884 | VV | 11690   | 166747   | 0.27%   | 0.064%  |
| 229        | 13.898 | 13.884 | 13.915 | VV | 14134   | 220736   | 0.36%   | 0.084%  |
| 230        | 13.946 | 13.915 | 13.957 | VV | 31131   | 506832   | 0.83%   | 0.194%  |
| 231        | 13.965 | 13.957 | 14.019 | VV | 32472   | 528911   | 0.86%   | 0.202%  |
| 232        | 14.052 | 14.019 | 14.085 | VV | 40565   | 784389   | 1.28%   | 0.300%  |
| 233        | 14.112 | 14.085 | 14.152 | VV | 43093   | 720380   | 1.17%   | 0.275%  |
| 234        | 14.167 | 14.152 | 14.209 | VV | 11320   | 292006   | 0.48%   | 0.112%  |
| 235        | 14.221 | 14.209 | 14.242 | VV | 9587    | 125804   | 0.20%   | 0.048%  |
| 236        | 14.266 | 14.242 | 14.298 | VV | 10360   | 203104   | 0.33%   | 0.078%  |
| 237        | 14.312 | 14.298 | 14.364 | VV | 4738    | 107479   | 0.18%   | 0.041%  |
| 238        | 14.381 | 14.364 | 14.418 | VV | 2666    | 51399    | 0.08%   | 0.020%  |
| 239        | 14.503 | 14.418 | 14.524 | VV | 18208   | 347636   | 0.57%   | 0.133%  |
| 240        | 14.545 | 14.524 | 14.565 | VV | 18463   | 290586   | 0.47%   | 0.111%  |
| 241        | 14.591 | 14.565 | 14.619 | VV | 30495   | 507320   | 0.83%   | 0.194%  |
| 242        | 14.656 | 14.619 | 14.682 | VV | 6954    | 162599   | 0.26%   | 0.062%  |
| 243        | 14.700 | 14.682 | 14.719 | VV | 4700    | 75850    | 0.12%   | 0.029%  |
| 244        | 14.736 | 14.719 | 14.769 | VV | 3779    | 67552    | 0.11%   | 0.026%  |
| 245        | 14.790 | 14.769 | 14.812 | VV | 3324    | 67844    | 0.11%   | 0.026%  |
| 246        | 14.832 | 14.812 | 14.852 | VV | 3914    | 68733    | 0.11%   | 0.026%  |

|     |        |        |        |    |            |         |       |        |  |
|-----|--------|--------|--------|----|------------|---------|-------|--------|--|
|     |        |        |        |    | rteres.txt |         |       |        |  |
| 247 | 14.892 | 14.852 | 14.912 | VV | 3783       | 95375   | 0.16% | 0.036% |  |
| 248 | 14.938 | 14.912 | 14.950 | VV | 8087       | 126727  | 0.21% | 0.048% |  |
| 249 | 14.970 | 14.950 | 15.053 | VV | 17084      | 442351  | 0.72% | 0.169% |  |
| 250 | 15.111 | 15.053 | 15.140 | VV | 19335      | 356209  | 0.58% | 0.136% |  |
| 251 | 15.170 | 15.140 | 15.197 | VV | 36211      | 537482  | 0.88% | 0.205% |  |
| 252 | 15.211 | 15.197 | 15.266 | VV | 6653       | 135438  | 0.22% | 0.052% |  |
| 253 | 15.290 | 15.266 | 15.322 | PV | 5461       | 122480  | 0.20% | 0.047% |  |
| 254 | 15.341 | 15.322 | 15.391 | VV | 6134       | 155098  | 0.25% | 0.059% |  |
| 255 | 15.419 | 15.391 | 15.440 | PV | 3631       | 71472   | 0.12% | 0.027% |  |
| 256 | 15.500 | 15.440 | 15.517 | VV | 6167       | 184694  | 0.30% | 0.071% |  |
| 257 | 15.528 | 15.517 | 15.545 | VV | 3547       | 42069   | 0.07% | 0.016% |  |
| 258 | 15.561 | 15.545 | 15.572 | VV | 3794       | 40338   | 0.07% | 0.015% |  |
| 259 | 15.609 | 15.572 | 15.644 | VV | 30418      | 486350  | 0.79% | 0.186% |  |
| 260 | 15.670 | 15.644 | 15.692 | VV | 5778       | 103704  | 0.17% | 0.040% |  |
| 261 | 15.703 | 15.692 | 15.737 | VV | 2637       | 33461   | 0.05% | 0.013% |  |
| 262 | 15.774 | 15.737 | 15.792 | PV | 31128      | 504486  | 0.82% | 0.193% |  |
| 263 | 15.810 | 15.792 | 15.901 | VV | 25819      | 707980  | 1.15% | 0.270% |  |
| 264 | 15.921 | 15.901 | 15.940 | VV | 6454       | 112045  | 0.18% | 0.043% |  |
| 265 | 15.972 | 15.940 | 16.009 | VV | 10175      | 249149  | 0.41% | 0.095% |  |
| 266 | 16.052 | 16.009 | 16.068 | VV | 19618      | 327005  | 0.53% | 0.125% |  |
| 267 | 16.089 | 16.068 | 16.130 | VV | 28100      | 498638  | 0.81% | 0.190% |  |
| 268 | 16.153 | 16.130 | 16.171 | VV | 15719      | 243546  | 0.40% | 0.093% |  |
| 269 | 16.184 | 16.171 | 16.205 | VV | 9187       | 166319  | 0.27% | 0.064% |  |
| 270 | 16.222 | 16.205 | 16.240 | VV | 8545       | 161452  | 0.26% | 0.062% |  |
| 271 | 16.275 | 16.240 | 16.297 | VV | 8540       | 223872  | 0.36% | 0.085% |  |
| 272 | 16.315 | 16.297 | 16.327 | VV | 6115       | 90905   | 0.15% | 0.035% |  |
| 273 | 16.345 | 16.327 | 16.354 | VV | 7721       | 106714  | 0.17% | 0.041% |  |
| 274 | 16.394 | 16.354 | 16.412 | VV | 42624      | 758492  | 1.24% | 0.290% |  |
| 275 | 16.433 | 16.412 | 16.486 | VV | 71622      | 1156683 | 1.88% | 0.442% |  |
| 276 | 16.497 | 16.486 | 16.513 | VV | 7056       | 105386  | 0.17% | 0.040% |  |
| 277 | 16.557 | 16.513 | 16.577 | VV | 35348      | 651670  | 1.06% | 0.249% |  |
| 278 | 16.594 | 16.577 | 16.616 | VV | 18895      | 325798  | 0.53% | 0.124% |  |
| 279 | 16.636 | 16.616 | 16.672 | VV | 12492      | 267166  | 0.44% | 0.102% |  |
| 280 | 16.715 | 16.672 | 16.729 | VV | 10686      | 287485  | 0.47% | 0.110% |  |
| 281 | 16.764 | 16.729 | 16.793 | VV | 13434      | 409315  | 0.67% | 0.156% |  |
| 282 | 16.839 | 16.793 | 16.870 | VV | 16122      | 510224  | 0.83% | 0.195% |  |
| 283 | 16.890 | 16.870 | 16.907 | VV | 12298      | 204817  | 0.33% | 0.078% |  |
| 284 | 16.928 | 16.907 | 16.962 | VV | 21975      | 443413  | 0.72% | 0.169% |  |
| 285 | 17.005 | 16.962 | 17.032 | VV | 33811      | 702111  | 1.14% | 0.268% |  |
| 286 | 17.047 | 17.032 | 17.062 | VV | 13264      | 197347  | 0.32% | 0.075% |  |
| 287 | 17.083 | 17.062 | 17.105 | VV | 14175      | 301182  | 0.49% | 0.115% |  |
| 288 | 17.157 | 17.105 | 17.182 | VV | 16455      | 525280  | 0.86% | 0.201% |  |
| 289 | 17.196 | 17.182 | 17.225 | VV | 9410       | 213361  | 0.35% | 0.081% |  |
| 290 | 17.239 | 17.225 | 17.257 | VV | 10668      | 178731  | 0.29% | 0.068% |  |
| 291 | 17.274 | 17.257 | 17.294 | VV | 11386      | 198467  | 0.32% | 0.076% |  |
| 292 | 17.337 | 17.294 | 17.359 | VV | 14240      | 455008  | 0.74% | 0.174% |  |
| 293 | 17.386 | 17.359 | 17.404 | VV | 17950      | 364238  | 0.59% | 0.139% |  |
| 294 | 17.442 | 17.404 | 17.484 | VV | 35883      | 931187  | 1.52% | 0.356% |  |
| 295 | 17.507 | 17.484 | 17.515 | VV | 14276      | 204804  | 0.33% | 0.078% |  |
| 296 | 17.549 | 17.515 | 17.567 | VV | 46809      | 856648  | 1.40% | 0.327% |  |
| 297 | 17.579 | 17.567 | 17.639 | VV | 23868      | 716495  | 1.17% | 0.274% |  |
| 298 | 17.655 | 17.639 | 17.677 | VV | 14034      | 255115  | 0.42% | 0.097% |  |
| 299 | 17.741 | 17.677 | 17.771 | VV | 17934      | 818010  | 1.33% | 0.312% |  |

|     |        |        |        |    |            |         |       |        |
|-----|--------|--------|--------|----|------------|---------|-------|--------|
|     |        |        |        |    | rteres.txt |         |       |        |
| 300 | 17.807 | 17.771 | 17.835 | VV | 23398      | 717342  | 1.17% | 0.274% |
| 301 | 17.865 | 17.835 | 17.892 | VV | 40828      | 869820  | 1.42% | 0.332% |
| 302 | 17.915 | 17.892 | 17.935 | VV | 40571      | 714203  | 1.16% | 0.273% |
| 303 | 17.944 | 17.935 | 17.977 | VV | 21336      | 466792  | 0.76% | 0.178% |
| 304 | 17.999 | 17.977 | 18.019 | VV | 22631      | 445684  | 0.73% | 0.170% |
| 305 | 18.052 | 18.019 | 18.087 | VV | 20823      | 713845  | 1.16% | 0.273% |
| 306 | 18.102 | 18.087 | 18.110 | VV | 16187      | 194104  | 0.32% | 0.074% |
| 307 | 18.141 | 18.110 | 18.162 | VV | 18430      | 496377  | 0.81% | 0.190% |
| 308 | 18.175 | 18.162 | 18.194 | VV | 18367      | 296128  | 0.48% | 0.113% |
| 309 | 18.236 | 18.194 | 18.245 | VV | 21310      | 515387  | 0.84% | 0.197% |
| 310 | 18.271 | 18.245 | 18.312 | VV | 45025      | 1018065 | 1.66% | 0.389% |
| 311 | 18.337 | 18.312 | 18.364 | VV | 35628      | 776686  | 1.27% | 0.297% |
| 312 | 18.389 | 18.364 | 18.449 | VV | 39121      | 1277384 | 2.08% | 0.488% |
| 313 | 18.466 | 18.449 | 18.486 | VV | 21464      | 422761  | 0.69% | 0.161% |
| 314 | 18.515 | 18.486 | 18.554 | VV | 24017      | 842211  | 1.37% | 0.322% |
| 315 | 18.575 | 18.554 | 18.592 | VV | 23073      | 469394  | 0.76% | 0.179% |
| 316 | 18.606 | 18.592 | 18.624 | VV | 24972      | 417876  | 0.68% | 0.160% |
| 317 | 18.668 | 18.624 | 18.705 | VV | 63612      | 1606300 | 2.62% | 0.613% |
| 318 | 18.743 | 18.705 | 18.774 | VV | 29876      | 1028895 | 1.68% | 0.393% |
| 319 | 18.785 | 18.774 | 18.812 | VV | 25275      | 527679  | 0.86% | 0.201% |
| 320 | 18.850 | 18.812 | 18.871 | VV | 28408      | 880491  | 1.43% | 0.336% |
| 321 | 18.892 | 18.871 | 18.912 | VV | 27428      | 603348  | 0.98% | 0.230% |
| 322 | 18.922 | 18.912 | 18.940 | VV | 28577      | 409031  | 0.67% | 0.156% |
| 323 | 18.960 | 18.940 | 18.979 | VV | 24803      | 541224  | 0.88% | 0.207% |
| 324 | 19.052 | 18.979 | 19.087 | VV | 55536      | 2102820 | 3.43% | 0.803% |
| 325 | 19.105 | 19.087 | 19.124 | VV | 27977      | 598041  | 0.97% | 0.228% |
| 326 | 19.146 | 19.124 | 19.190 | VV | 34069      | 1196545 | 1.95% | 0.457% |
| 327 | 19.201 | 19.190 | 19.232 | VV | 31523      | 743517  | 1.21% | 0.284% |
| 328 | 19.241 | 19.232 | 19.259 | VV | 34612      | 487769  | 0.79% | 0.186% |
| 329 | 19.296 | 19.259 | 19.327 | VV | 34706      | 1258637 | 2.05% | 0.481% |
| 330 | 19.364 | 19.327 | 19.394 | VV | 41133      | 1378165 | 2.25% | 0.526% |
| 331 | 19.427 | 19.394 | 19.488 | VV | 60106      | 2309498 | 3.76% | 0.882% |
| 332 | 19.508 | 19.488 | 19.518 | VV | 32766      | 547437  | 0.89% | 0.209% |
| 333 | 19.549 | 19.518 | 19.608 | VV | 43740      | 2070983 | 3.37% | 0.791% |
| 334 | 19.628 | 19.608 | 19.639 | VV | 40711      | 711272  | 1.16% | 0.272% |
| 335 | 19.660 | 19.639 | 19.680 | VV | 55758      | 1106256 | 1.80% | 0.422% |
| 336 | 19.692 | 19.680 | 19.714 | VV | 42987      | 814050  | 1.33% | 0.311% |
| 337 | 19.722 | 19.714 | 19.733 | VV | 41656      | 451181  | 0.74% | 0.172% |
| 338 | 19.788 | 19.733 | 19.814 | VV | 57386      | 2146880 | 3.50% | 0.820% |
| 339 | 19.830 | 19.814 | 19.869 | VV | 51201      | 1493296 | 2.43% | 0.570% |
| 340 | 19.896 | 19.869 | 19.914 | VV | 52083      | 1256973 | 2.05% | 0.480% |
| 341 | 19.930 | 19.914 | 19.940 | VV | 49209      | 715906  | 1.17% | 0.273% |
| 342 | 19.970 | 19.940 | 19.984 | VV | 51452      | 1248566 | 2.03% | 0.477% |
| 343 | 19.995 | 19.984 | 20.015 | VV | 49177      | 852432  | 1.39% | 0.325% |
| 344 | 20.037 | 20.015 | 20.062 | VV | 49726      | 1228610 | 2.00% | 0.469% |
| 345 | 20.103 | 20.062 | 20.116 | VV | 47260      | 1420504 | 2.31% | 0.542% |
| 346 | 20.147 | 20.116 | 20.185 | VV | 72648      | 2251349 | 3.67% | 0.860% |
| 347 | 20.233 | 20.185 | 20.247 | VV | 51812      | 1753295 | 2.86% | 0.669% |
| 348 | 20.255 | 20.247 | 20.274 | VV | 53694      | 803766  | 1.31% | 0.307% |
| 349 | 20.282 | 20.274 | 20.310 | VV | 50809      | 1066964 | 1.74% | 0.407% |
| 350 | 20.319 | 20.310 | 20.325 | VV | 52474      | 475843  | 0.78% | 0.182% |
| 351 | 20.340 | 20.325 | 20.362 | VV | 53337      | 1130308 | 1.84% | 0.432% |

| rteres.txt |        |        |        |    |                                   |         |       |        |  |
|------------|--------|--------|--------|----|-----------------------------------|---------|-------|--------|--|
| 352        | 20.390 | 20.362 | 20.417 | VV | 56173                             | 1671385 | 2.72% | 0.638% |  |
| 353        | 20.437 | 20.417 | 20.449 | VV | 50193                             | 891414  | 1.45% | 0.340% |  |
| 354        | 20.494 | 20.449 | 20.541 | VV | 60215                             | 2687473 | 4.38% | 1.026% |  |
| 355        | 20.555 | 20.541 | 20.565 | VV | 42661                             | 573833  | 0.93% | 0.219% |  |
| 356        | 20.587 | 20.565 | 20.601 | VV | 41352                             | 840677  | 1.37% | 0.321% |  |
| 357        | 20.614 | 20.601 | 20.636 | VV | 43184                             | 803146  | 1.31% | 0.307% |  |
| 358        | 20.645 | 20.636 | 20.689 | VV | 38667                             | 1134173 | 1.85% | 0.433% |  |
| 359        | 20.690 | 20.689 | 20.700 | VV | 35934                             | 229651  | 0.37% | 0.088% |  |
| 360        | 20.723 | 20.700 | 20.737 | VV | 34630                             | 700780  | 1.14% | 0.268% |  |
| 361        | 20.756 | 20.737 | 20.767 | VV | 34384                             | 573326  | 0.93% | 0.219% |  |
| 362        | 20.779 | 20.767 | 20.802 | VV | 32859                             | 663502  | 1.08% | 0.253% |  |
| 363        | 20.811 | 20.802 | 20.838 | VV | 31252                             | 593994  | 0.97% | 0.227% |  |
| 364        | 20.866 | 20.838 | 20.912 | VV | 35547                             | 1297426 | 2.11% | 0.495% |  |
| 365        | 20.926 | 20.912 | 20.944 | VV | 24795                             | 416944  | 0.68% | 0.159% |  |
| 366        | 20.975 | 20.944 | 20.997 | VV | 23419                             | 658822  | 1.07% | 0.252% |  |
| 367        | 21.018 | 20.997 | 21.060 | VV | 22083                             | 706143  | 1.15% | 0.270% |  |
| 368        | 21.070 | 21.060 | 21.115 | VV | 18540                             | 538588  | 0.88% | 0.206% |  |
| 369        | 21.127 | 21.115 | 21.154 | VV | 15184                             | 290610  | 0.47% | 0.111% |  |
| 370        | 21.163 | 21.154 | 21.187 | VV | 10495                             | 202070  | 0.33% | 0.077% |  |
| 371        | 21.192 | 21.187 | 21.200 | VV | 10903                             | 76937   | 0.13% | 0.029% |  |
| 372        | 21.215 | 21.200 | 21.227 | VV | 12276                             | 149194  | 0.24% | 0.057% |  |
| 373        | 21.235 | 21.227 | 21.257 | VV | 8468                              | 131626  | 0.21% | 0.050% |  |
| 374        | 21.312 | 21.257 | 21.375 | VV | 18316                             | 612354  | 1.00% | 0.234% |  |
|            |        |        |        |    | Sum of corrected areas: 261884566 |         |       |        |  |

Alaphatic EPH 111318.M Wed Nov 21 08:41:36 2018