

Instrument :  
FID\_D  
ClientSampleId :  
PE-5

rteres

## Area Percent Report

Manual Integrations  
APPROVED

mohammad  
6/29/2021 3:55:26 PM

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_D\Data\FD062821AL\  
Data File : FD038018.D  
Signal(s) : FID2B.CH  
Acq On : 28 Jun 2021 18:40  
Sample : M2858-05  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_D\methods\Alaphatic EPH 061021.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         | 3.251       | 3.205        | 3.269      | BV       | 2254           | 34784        | 0.08%          | 0.001%        |
| 2         | 3.277       | 3.269        | 3.314      | VV       | 445            | 3814         | 0.01%          | 0.000%        |
| 3         | 3.333       | 3.314        | 3.340      | PV       | 532            | 4582         | 0.01%          | 0.000%        |
| 4         | 3.355       | 3.340        | 3.397      | VV       | 2738           | 40214        | 0.10%          | 0.002%        |
| 5         | 3.414       | 3.397        | 3.424      | VV       | 1057           | 12242        | 0.03%          | 0.000%        |
| 6         | 3.436       | 3.424        | 3.458      | VV       | 1154           | 14310        | 0.03%          | 0.001%        |
| 7         | 3.471       | 3.458        | 3.482      | VV       | 835            | 6574         | 0.02%          | 0.000%        |
| 8         | 3.509       | 3.482        | 3.535      | VV       | 2720           | 43956        | 0.11%          | 0.002%        |
| 9         | 3.560       | 3.535        | 3.580      | VV       | 3032           | 51623        | 0.13%          | 0.002%        |
| 10        | 3.605       | 3.580        | 3.647      | VV       | 10655          | 160226       | 0.39%          | 0.006%        |
| 11        | 3.675       | 3.647        | 3.708      | VV       | 7467           | 101952       | 0.25%          | 0.004%        |
| 12        | 3.724       | 3.708        | 3.751      | VV       | 2388           | 30962        | 0.08%          | 0.001%        |
| 13        | 3.768       | 3.751        | 3.790      | VV       | 6328           | 56597        | 0.14%          | 0.002%        |
| 14        | 3.818       | 3.790        | 3.861      | VV       | 3974           | 83904        | 0.20%          | 0.003%        |
| 15        | 3.897       | 3.861        | 3.912      | PV       | 7088           | 94558        | 0.23%          | 0.004%        |
| 16        | 3.925       | 3.912        | 3.944      | VV       | 4011           | 53143        | 0.13%          | 0.002%        |
| 17        | 3.958       | 3.944        | 3.974      | VV       | 4349           | 55356        | 0.13%          | 0.002%        |
| 18        | 3.991       | 3.974        | 4.012      | VV       | 6626           | 75519        | 0.18%          | 0.003%        |
| 19        | 4.073       | 4.012        | 4.084      | VV       | 4085           | 98285        | 0.24%          | 0.004%        |
| 20        | 4.099       | 4.084        | 4.122      | VV       | 6074           | 85241        | 0.21%          | 0.003%        |
| 21        | 4.137       | 4.122        | 4.173      | VV       | 4467           | 62245        | 0.15%          | 0.002%        |
| 22        | 4.207       | 4.173        | 4.227      | PV       | 6217           | 78081        | 0.19%          | 0.003%        |
| 23        | 4.248       | 4.227        | 4.270      | VV       | 5335           | 86455        | 0.21%          | 0.003%        |
| 24        | 4.284       | 4.270        | 4.319      | VV       | 3837           | 78225        | 0.19%          | 0.003%        |
| 25        | 4.332       | 4.319        | 4.345      | VV       | 2355           | 24523        | 0.06%          | 0.001%        |
| 26        | 4.362       | 4.345        | 4.386      | VV       | 5682           | 66642        | 0.16%          | 0.003%        |
| 27        | 4.398       | 4.386        | 4.422      | VV       | 1258           | 21815        | 0.05%          | 0.001%        |
| 28        | 4.448       | 4.422        | 4.473      | VV       | 8240           | 156213       | 0.38%          | 0.006%        |
| 29        | 4.490       | 4.473        | 4.504      | VV       | 11061          | 142342       | 0.35%          | 0.006%        |
| 30        | 4.517       | 4.504        | 4.530      | VV       | 8760           | 106431       | 0.26%          | 0.004%        |
| 31        | 4.547       | 4.530        | 4.565      | VV       | 36462          | 342096       | 0.83%          | 0.014%        |
| 32        | 4.574       | 4.565        | 4.584      | VV       | 7007           | 64726        | 0.16%          | 0.003%        |
| 33        | 4.600       | 4.584        | 4.634      | VV       | 10171          | 211449       | 0.51%          | 0.008%        |
| 34        | 4.665       | 4.634        | 4.680      | VV       | 10310          | 169755       | 0.41%          | 0.007%        |
| 35        | 4.703       | 4.680        | 4.729      | VV       | 17839          | 303428       | 0.74%          | 0.012%        |
| 36        | 4.760       | 4.729        | 4.790      | VV       | 17453          | 244967       | 0.60%          | 0.010%        |

| rteres |       |       |       |    |        |         |       |        |
|--------|-------|-------|-------|----|--------|---------|-------|--------|
| 37     | 4.815 | 4.790 | 4.830 | VV | 7964   | 117377  | 0.29% | 0.005% |
| 38     | 4.846 | 4.830 | 4.867 | VV | 6993   | 103403  | 0.25% | 0.004% |
| 39     | 4.901 | 4.867 | 4.920 | VV | 15530  | 241021  | 0.59% | 0.010% |
| 40     | 4.931 | 4.920 | 4.955 | VV | 12244  | 139288  | 0.34% | 0.006% |
| 41     | 4.980 | 4.955 | 4.991 | VV | 8587   | 112838  | 0.27% | 0.005% |
| 42     | 5.005 | 4.991 | 5.016 | VV | 14270  | 152365  | 0.37% | 0.006% |
| 43     | 5.028 | 5.016 | 5.069 | VV | 11784  | 233954  | 0.57% | 0.009% |
| 44     | 5.094 | 5.069 | 5.107 | VV | 6083   | 102214  | 0.25% | 0.004% |
| 45     | 5.126 | 5.107 | 5.159 | VV | 11167  | 260987  | 0.63% | 0.010% |
| 46     | 5.184 | 5.159 | 5.198 | VV | 11819  | 207827  | 0.51% | 0.008% |
| 47     | 5.214 | 5.198 | 5.229 | VV | 19166  | 222234  | 0.54% | 0.009% |
| 48     | 5.242 | 5.229 | 5.290 | VV | 11218  | 291390  | 0.71% | 0.012% |
| 49     | 5.303 | 5.290 | 5.313 | VV | 6909   | 76972   | 0.19% | 0.003% |
| 50     | 5.344 | 5.313 | 5.372 | VV | 31419  | 539170  | 1.31% | 0.022% |
| 51     | 5.396 | 5.372 | 5.431 | VV | 12007  | 303271  | 0.74% | 0.012% |
| 52     | 5.447 | 5.431 | 5.457 | VV | 9589   | 122838  | 0.30% | 0.005% |
| 53     | 5.469 | 5.457 | 5.481 | VV | 10191  | 131445  | 0.32% | 0.005% |
| 54     | 5.504 | 5.481 | 5.535 | VV | 49958  | 803669  | 1.95% | 0.032% |
| 55     | 5.573 | 5.535 | 5.590 | VV | 16371  | 388252  | 0.94% | 0.016% |
| 56     | 5.610 | 5.590 | 5.652 | VV | 37079  | 700005  | 1.70% | 0.028% |
| 57     | 5.671 | 5.652 | 5.702 | VV | 17525  | 329989  | 0.80% | 0.013% |
| 58     | 5.731 | 5.702 | 5.755 | VV | 18140  | 381344  | 0.93% | 0.015% |
| 59     | 5.777 | 5.755 | 5.796 | VV | 21857  | 289886  | 0.70% | 0.012% |
| 60     | 5.827 | 5.796 | 5.846 | VV | 28257  | 511029  | 1.24% | 0.020% |
| 61     | 5.873 | 5.846 | 5.898 | VV | 29137  | 575811  | 1.40% | 0.023% |
| 62     | 5.919 | 5.898 | 5.946 | VV | 24217  | 501912  | 1.22% | 0.020% |
| 63     | 5.967 | 5.946 | 5.986 | VV | 21325  | 408414  | 0.99% | 0.016% |
| 64     | 6.004 | 5.986 | 6.031 | VV | 23445  | 504349  | 1.23% | 0.020% |
| 65     | 6.049 | 6.031 | 6.073 | VV | 24337  | 516307  | 1.25% | 0.021% |
| 66     | 6.108 | 6.073 | 6.124 | VV | 28686  | 622562  | 1.51% | 0.025% |
| 67     | 6.140 | 6.124 | 6.162 | VV | 23909  | 474920  | 1.15% | 0.019% |
| 68     | 6.183 | 6.162 | 6.201 | VV | 40064  | 657166  | 1.60% | 0.026% |
| 69     | 6.230 | 6.201 | 6.245 | VV | 31263  | 688466  | 1.67% | 0.028% |
| 70     | 6.253 | 6.245 | 6.306 | VV | 26911  | 782532  | 1.90% | 0.031% |
| 71     | 6.319 | 6.306 | 6.351 | VV | 24976  | 534250  | 1.30% | 0.021% |
| 72     | 6.390 | 6.351 | 6.404 | VV | 25561  | 615694  | 1.50% | 0.025% |
| 73     | 6.451 | 6.404 | 6.472 | VV | 130921 | 2025222 | 4.92% | 0.081% |
| 74     | 6.488 | 6.472 | 6.509 | VV | 54741  | 837651  | 2.04% | 0.034% |
| 75     | 6.521 | 6.509 | 6.538 | VV | 33984  | 438879  | 1.07% | 0.018% |
| 76     | 6.576 | 6.538 | 6.595 | VV | 33422  | 877495  | 2.13% | 0.035% |
| 77     | 6.621 | 6.595 | 6.645 | VV | 45798  | 955313  | 2.32% | 0.038% |
| 78     | 6.656 | 6.645 | 6.669 | VV | 30448  | 373996  | 0.91% | 0.015% |
| 79     | 6.688 | 6.669 | 6.730 | VV | 32892  | 921686  | 2.24% | 0.037% |
| 80     | 6.759 | 6.730 | 6.778 | VV | 37311  | 816523  | 1.98% | 0.033% |
| 81     | 6.799 | 6.778 | 6.807 | VV | 41516  | 613539  | 1.49% | 0.025% |
| 82     | 6.819 | 6.807 | 6.838 | VV | 47007  | 706461  | 1.72% | 0.028% |
| 83     | 6.858 | 6.838 | 6.885 | VV | 46259  | 914912  | 2.22% | 0.037% |
| 84     | 6.909 | 6.885 | 6.929 | VV | 39752  | 828031  | 2.01% | 0.033% |
| 85     | 6.938 | 6.929 | 6.949 | VV | 30206  | 367974  | 0.89% | 0.015% |
| 86     | 6.957 | 6.949 | 6.978 | VV | 29537  | 434958  | 1.06% | 0.017% |
| 87     | 7.002 | 6.978 | 7.039 | VV | 144762 | 2291948 | 5.57% | 0.092% |
| 88     | 7.057 | 7.039 | 7.078 | VV | 39527  | 744240  | 1.81% | 0.030% |
| 89     | 7.100 | 7.078 | 7.118 | VV | 56408  | 914724  | 2.22% | 0.037% |

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|--------|-------|-------|-------|----|--------|---------|--------|--------|
| 90     | 7.141 | 7.118 | 7.157 | VV | 31791  | 716848  | 1.74%  | 0.029% |
| 91     | 7.199 | 7.157 | 7.212 | VV | 46420  | 1246343 | 3.03%  | 0.050% |
| 92     | 7.222 | 7.212 | 7.246 | VV | 43257  | 743871  | 1.81%  | 0.030% |
| 93     | 7.270 | 7.246 | 7.298 | VV | 38727  | 1049048 | 2.55%  | 0.042% |
| 94     | 7.311 | 7.298 | 7.322 | VV | 38028  | 519225  | 1.26%  | 0.021% |
| 95     | 7.349 | 7.322 | 7.370 | VV | 41438  | 1088630 | 2.65%  | 0.044% |
| 96     | 7.396 | 7.370 | 7.425 | VV | 84271  | 1684613 | 4.09%  | 0.067% |
| 97     | 7.441 | 7.425 | 7.462 | VV | 38752  | 695229  | 1.69%  | 0.028% |
| 98     | 7.482 | 7.462 | 7.490 | VV | 33625  | 486038  | 1.18%  | 0.019% |
| 99     | 7.586 | 7.574 | 7.619 | VV | 42849  | 938119  | 2.28%  | 0.038% |
| 100    | 7.647 | 7.619 | 7.663 | VV | 54906  | 1059331 | 2.57%  | 0.042% |
| 101    | 7.679 | 7.663 | 7.690 | VV | 46329  | 665582  | 1.62%  | 0.027% |
| 102    | 7.696 | 7.690 | 7.715 | VV | 44757  | 585359  | 1.42%  | 0.023% |
| 103    | 7.742 | 7.715 | 7.758 | VV | 42321  | 954698  | 2.32%  | 0.038% |
| 104    | 7.786 | 7.758 | 7.804 | VV | 50772  | 1208420 | 2.94%  | 0.048% |
| 105    | 7.825 | 7.804 | 7.866 | VV | 90868  | 1979946 | 4.81%  | 0.079% |
| 106    | 7.913 | 7.866 | 7.943 | VV | 141933 | 2841070 | 6.90%  | 0.114% |
| 107    | 7.964 | 7.943 | 7.983 | VV | 57701  | 1149032 | 2.79%  | 0.046% |
| 108    | 8.000 | 7.983 | 8.021 | VV | 54020  | 1001856 | 2.43%  | 0.040% |
| 109    | 8.090 | 8.021 | 8.109 | VV | 52938  | 2463940 | 5.99%  | 0.099% |
| 110    | 8.138 | 8.109 | 8.170 | VV | 57758  | 1807776 | 4.39%  | 0.072% |
| 111    | 8.185 | 8.170 | 8.194 | VV | 54730  | 708647  | 1.72%  | 0.028% |
| 112    | 8.217 | 8.194 | 8.233 | VV | 304013 | 3665320 | 8.91%  | 0.147% |
| 113    | 8.244 | 8.233 | 8.289 | VV | 155260 | 2673918 | 6.50%  | 0.107% |
| 114    | 8.305 | 8.289 | 8.320 | VV | 57187  | 923417  | 2.24%  | 0.037% |
| 115    | 8.335 | 8.320 | 8.358 | VV | 59576  | 1207773 | 2.93%  | 0.048% |
| 116    | 8.444 | 8.428 | 8.454 | VV | 63243  | 865401  | 2.10%  | 0.035% |
| 117    | 8.473 | 8.454 | 8.493 | VV | 84109  | 1606954 | 3.90%  | 0.064% |
| 118    | 8.507 | 8.493 | 8.521 | VV | 62303  | 961778  | 2.34%  | 0.038% |
| 119    | 8.539 | 8.521 | 8.562 | VV | 159974 | 2372014 | 5.76%  | 0.095% |
| 120    | 8.578 | 8.562 | 8.587 | VV | 75793  | 1013725 | 2.46%  | 0.041% |
| 121    | 8.626 | 8.587 | 8.660 | VV | 154700 | 3983221 | 9.68%  | 0.159% |
| 122    | 8.675 | 8.660 | 8.686 | VV | 57979  | 859790  | 2.09%  | 0.034% |
| 123    | 8.703 | 8.686 | 8.719 | VV | 72407  | 1219048 | 2.96%  | 0.049% |
| 124    | 8.734 | 8.719 | 8.748 | VV | 60919  | 1002389 | 2.44%  | 0.040% |
| 125    | 8.768 | 8.748 | 8.788 | VV | 66164  | 1371398 | 3.33%  | 0.055% |
| 126    | 8.825 | 8.788 | 8.856 | VV | 71583  | 2487621 | 6.04%  | 0.100% |
| 127    | 8.897 | 8.856 | 8.929 | VV | 145093 | 3840030 | 9.33%  | 0.154% |
| 128    | 8.942 | 8.929 | 8.960 | VV | 67136  | 1177341 | 2.86%  | 0.047% |
| 129    | 8.991 | 8.960 | 9.016 | VV | 73901  | 2015262 | 4.90%  | 0.081% |
| 130    | 9.051 | 9.016 | 9.083 | VV | 71272  | 2394882 | 5.82%  | 0.096% |
| 131    | 9.109 | 9.083 | 9.135 | VV | 71655  | 1935910 | 4.70%  | 0.077% |
| 132    | 9.147 | 9.135 | 9.171 | VV | 64189  | 1342728 | 3.26%  | 0.054% |
| 133    | 9.209 | 9.171 | 9.248 | VV | 91434  | 3443106 | 8.37%  | 0.138% |
| 134    | 9.290 | 9.248 | 9.321 | VV | 156413 | 4193268 | 10.19% | 0.168% |
| 135    | 9.355 | 9.321 | 9.392 | VV | 109663 | 3680985 | 8.94%  | 0.147% |
| 136    | 9.413 | 9.392 | 9.423 | VV | 70422  | 1277983 | 3.11%  | 0.051% |
| 137    | 9.448 | 9.423 | 9.458 | VV | 81768  | 1620698 | 3.94%  | 0.065% |
| 138    | 9.467 | 9.458 | 9.485 | VV | 80741  | 1187178 | 2.88%  | 0.048% |
| 139    | 9.509 | 9.485 | 9.540 | VV | 138031 | 2910002 | 7.07%  | 0.116% |
| 140    | 9.560 | 9.540 | 9.572 | VV | 71507  | 1315537 | 3.20%  | 0.053% |
| 141    | 9.589 | 9.572 | 9.608 | VV | 76807  | 1583021 | 3.85%  | 0.063% |

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|--------|--------|--------|--------|----|--------|----------|--------|--------|
| 142    | 9.642  | 9.608  | 9.667  | VV | 89590  | 2814963  | 6.84%  | 0.113% |
| 143    | 9.686  | 9.667  | 9.706  | VV | 90703  | 1916674  | 4.66%  | 0.077% |
| 144    | 9.716  | 9.706  | 9.728  | VV | 80425  | 1061466  | 2.58%  | 0.042% |
| 145    | 9.781  | 9.728  | 9.818  | VV | 91785  | 4516457  | 10.97% | 0.181% |
| 146    | 9.852  | 9.818  | 9.881  | VV | 97685  | 3270477  | 7.95%  | 0.131% |
| 147    | 9.892  | 9.881  | 9.901  | VV | 86216  | 1047532  | 2.55%  | 0.042% |
| 148    | 9.925  | 9.901  | 9.941  | VV | 95916  | 2177531  | 5.29%  | 0.087% |
| 149    | 9.955  | 9.941  | 9.965  | VV | 91267  | 1267176  | 3.08%  | 0.051% |
| 150    | 9.978  | 9.965  | 9.991  | VV | 92047  | 1434364  | 3.49%  | 0.057% |
| 151    | 10.009 | 9.991  | 10.016 | VV | 97448  | 1441037  | 3.50%  | 0.058% |
| 152    | 10.029 | 10.016 | 10.039 | VV | 100475 | 1345640  | 3.27%  | 0.054% |
| 153    | 10.071 | 10.039 | 10.094 | VV | 164983 | 4260168  | 10.35% | 0.170% |
| 154    | 10.119 | 10.094 | 10.129 | VV | 128018 | 2523165  | 6.13%  | 0.101% |
| 155    | 10.145 | 10.129 | 10.175 | VV | 136166 | 3453699  | 8.39%  | 0.138% |
| 156    | 10.214 | 10.175 | 10.238 | VV | 129153 | 4370339  | 10.62% | 0.175% |
| 157    | 10.263 | 10.238 | 10.294 | VV | 155643 | 4229295  | 10.28% | 0.169% |
| 158    | 10.326 | 10.294 | 10.342 | VV | 169398 | 4005194  | 9.73%  | 0.160% |
| 159    | 10.353 | 10.342 | 10.369 | VV | 150095 | 2286489  | 5.56%  | 0.091% |
| 160    | 10.433 | 10.369 | 10.453 | VV | 200358 | 8182659  | 19.88% | 0.327% |
| 161    | 10.495 | 10.453 | 10.529 | VV | 237726 | 8427650  | 20.48% | 0.337% |
| 162    | 10.540 | 10.529 | 10.562 | VV | 178598 | 3299060  | 8.02%  | 0.132% |
| 163    | 10.585 | 10.562 | 10.601 | VV | 179206 | 3772541  | 9.17%  | 0.151% |
| 164    | 10.644 | 10.601 | 10.668 | VV | 178329 | 6675619  | 16.22% | 0.267% |
| 165    | 10.692 | 10.668 | 10.715 | VV | 170846 | 4682563  | 11.38% | 0.187% |
| 166    | 10.744 | 10.715 | 10.778 | VV | 181466 | 6387304  | 15.52% | 0.256% |
| 167    | 10.810 | 10.778 | 10.860 | VV | 202688 | 9323070  | 22.65% | 0.373% |
| 168    | 10.904 | 10.860 | 10.918 | VV | 208800 | 6735173  | 16.37% | 0.270% |
| 169    | 10.952 | 10.918 | 10.961 | VV | 215003 | 5368212  | 13.04% | 0.215% |
| 170    | 10.980 | 10.961 | 10.998 | VV | 228635 | 4812127  | 11.69% | 0.193% |
| 171    | 11.022 | 10.998 | 11.035 | VV | 222474 | 4731334  | 11.50% | 0.189% |
| 172    | 11.065 | 11.035 | 11.078 | VV | 240420 | 6001889  | 14.58% | 0.240% |
| 173    | 11.090 | 11.078 | 11.104 | VV | 241878 | 3707265  | 9.01%  | 0.148% |
| 174    | 11.116 | 11.104 | 11.131 | VV | 235436 | 3840030  | 9.33%  | 0.154% |
| 175    | 11.145 | 11.131 | 11.161 | VV | 244909 | 4240301  | 10.30% | 0.170% |
| 176    | 11.218 | 11.161 | 11.246 | VV | 344516 | 13941530 | 33.88% | 0.558% |
| 177    | 11.263 | 11.246 | 11.299 | VV | 258870 | 8071671  | 19.61% | 0.323% |
| 178    | 11.326 | 11.299 | 11.342 | VV | 266501 | 6534297  | 15.88% | 0.261% |
| 179    | 11.357 | 11.342 | 11.372 | VV | 271137 | 4764425  | 11.58% | 0.191% |
| 180    | 11.440 | 11.372 | 11.474 | VV | 974058 | 24454174 | 59.42% | 0.979% |
| 181    | 11.526 | 11.474 | 11.551 | VV | 318695 | 14107006 | 34.28% | 0.565% |
| 182    | 11.583 | 11.551 | 11.599 | VV | 336857 | 9140420  | 22.21% | 0.366% |
| 183    | 11.618 | 11.599 | 11.655 | VV | 361288 | 11342178 | 27.56% | 0.454% |
| 184    | 11.686 | 11.655 | 11.700 | VV | 339242 | 8876083  | 21.57% | 0.355% |
| 185    | 11.734 | 11.700 | 11.753 | VV | 382341 | 11148056 | 27.09% | 0.446% |
| 186    | 11.783 | 11.753 | 11.858 | VV | 425448 | 23863451 | 57.99% | 0.955% |
| 187    | 11.929 | 11.858 | 11.974 | VV | 406492 | 26294431 | 63.89% | 1.052% |
| 188    | 11.996 | 11.974 | 12.007 | VV | 415813 | 7933671  | 19.28% | 0.317% |
| 189    | 12.021 | 12.007 | 12.034 | VV | 423245 | 6759438  | 16.43% | 0.270% |
| 190    | 12.052 | 12.034 | 12.080 | VV | 454269 | 11826434 | 28.74% | 0.473% |
| 191    | 12.102 | 12.080 | 12.120 | VV | 456968 | 10553668 | 25.64% | 0.422% |
| 192    | 12.159 | 12.120 | 12.172 | VV | 469872 | 14022112 | 34.07% | 0.561% |
| 193    | 12.183 | 12.172 | 12.235 | VV | 467573 | 16987107 | 41.28% | 0.680% |
| 194    | 12.291 | 12.235 | 12.316 | VV | 462962 | 21513210 | 52.28% | 0.861% |

Instrument :  
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ClientSampleId :  
PE-5

Manual Integrations  
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| rteres |        |        |        |    |         |          |         |        |
|--------|--------|--------|--------|----|---------|----------|---------|--------|
| 195    | 12.358 | 12.316 | 12.388 | VV | 507755  | 20736940 | 50.39%  | 0.830% |
| 196    | 12.400 | 12.388 | 12.419 | VV | 481684  | 8640506  | 21.00%  | 0.346% |
| 197    | 12.441 | 12.419 | 12.465 | VV | 502121  | 13540176 | 32.90%  | 0.542% |
| 198    | 12.483 | 12.465 | 12.518 | VV | 491957  | 15386045 | 37.39%  | 0.616% |
| 199    | 12.536 | 12.518 | 12.563 | VV | 523439  | 13496464 | 32.80%  | 0.540% |
| 200    | 12.583 | 12.563 | 12.605 | VV | 505617  | 12214056 | 29.68%  | 0.489% |
| 201    | 12.664 | 12.605 | 12.678 | VV | 484708  | 20942117 | 50.89%  | 0.838% |
| 202    | 12.697 | 12.678 | 12.714 | VV | 503647  | 10754792 | 26.13%  | 0.430% |
| 203    | 12.732 | 12.714 | 12.747 | VV | 503458  | 9880858  | 24.01%  | 0.395% |
| 204    | 12.762 | 12.747 | 12.777 | VV | 519127  | 9024696  | 21.93%  | 0.361% |
| 205    | 12.794 | 12.777 | 12.832 | VV | 527914  | 16914348 | 41.10%  | 0.677% |
| 206    | 12.884 | 12.832 | 12.908 | VV | 1004483 | 29195033 | 70.94%  | 1.168% |
| 207    | 12.935 | 12.908 | 12.971 | VV | 599749  | 21427430 | 52.07%  | 0.857% |
| 208    | 12.986 | 12.971 | 13.005 | VV | 552979  | 11092315 | 26.95%  | 0.444% |
| 209    | 13.018 | 13.005 | 13.033 | VV | 546295  | 8930047  | 21.70%  | 0.357% |
| 210    | 13.053 | 13.033 | 13.070 | VV | 581660  | 12053009 | 29.29%  | 0.482% |
| 211    | 13.104 | 13.070 | 13.142 | VV | 579486  | 24465939 | 59.45%  | 0.979% |
| 212    | 13.183 | 13.142 | 13.197 | VV | 576007  | 18483197 | 44.91%  | 0.740% |
| 213    | 13.212 | 13.197 | 13.238 | VV | 597416  | 13722307 | 33.34%  | 0.549% |
| 214    | 13.276 | 13.238 | 13.300 | VV | 617428  | 21687154 | 52.70%  | 0.868% |
| 215    | 13.319 | 13.300 | 13.340 | VV | 604863  | 14126226 | 34.33%  | 0.565% |
| 216    | 13.368 | 13.340 | 13.395 | VV | 592522  | 19244369 | 46.76%  | 0.770% |
| 217    | 13.413 | 13.395 | 13.440 | VV | 585672  | 15305970 | 37.19%  | 0.612% |
| 218    | 13.487 | 13.440 | 13.511 | VV | 636430  | 25234725 | 61.32%  | 1.010% |
| 219    | 13.549 | 13.511 | 13.591 | VV | 620686  | 28796465 | 69.97%  | 1.152% |
| 220    | 13.624 | 13.591 | 13.648 | VV | 624579  | 20337512 | 49.42%  | 0.814% |
| 221    | 13.653 | 13.648 | 13.664 | VV | 592791  | 5782500  | 14.05%  | 0.231% |
| 222    | 13.688 | 13.664 | 13.705 | VV | 619830  | 14441630 | 35.09%  | 0.578% |
| 223    | 13.722 | 13.705 | 13.742 | VV | 602334  | 13441026 | 32.66%  | 0.538% |
| 224    | 13.781 | 13.742 | 13.800 | VV | 612738  | 20502769 | 49.82%  | 0.820% |
| 225    | 13.870 | 13.800 | 13.891 | VV | 673274  | 34050000 | 82.74%  | 1.363% |
| 226    | 13.935 | 13.891 | 13.981 | VV | 632685  | 33146582 | 80.54%  | 1.326% |
| 227    | 14.016 | 13.981 | 14.065 | VV | 635942  | 30427795 | 73.94%  | 1.218% |
| 228    | 14.079 | 14.065 | 14.088 | VV | 604959  | 8404609  | 20.42%  | 0.336% |
| 229    | 14.107 | 14.088 | 14.118 | VV | 611333  | 10771293 | 26.17%  | 0.431% |
| 230    | 14.133 | 14.118 | 14.148 | VV | 614024  | 10899142 | 26.48%  | 0.436% |
| 231    | 14.158 | 14.148 | 14.184 | VV | 606265  | 12811021 | 31.13%  | 0.513% |
| 232    | 14.281 | 14.184 | 14.295 | VV | 659795  | 41153304 | 100.00% | 1.647% |
| 233    | 14.320 | 14.295 | 14.365 | VV | 670110  | 26683579 | 64.84%  | 1.068% |
| 234    | 14.390 | 14.365 | 14.407 | VV | 607411  | 14982780 | 36.41%  | 0.600% |
| 235    | 14.438 | 14.407 | 14.464 | VV | 634058  | 21235188 | 51.60%  | 0.850% |
| 236    | 14.474 | 14.464 | 14.511 | VV | 617248  | 16978009 | 41.26%  | 0.679% |
| 237    | 14.522 | 14.511 | 14.538 | VV | 604624  | 9427016  | 22.91%  | 0.377% |
| 238    | 14.549 | 14.538 | 14.560 | VV | 584238  | 7562234  | 18.38%  | 0.303% |
| 239    | 14.567 | 14.560 | 14.580 | VV | 583601  | 7176659  | 17.44%  | 0.287% |
| 240    | 14.594 | 14.580 | 14.604 | VV | 587995  | 8507281  | 20.67%  | 0.340% |
| 241    | 14.635 | 14.604 | 14.688 | VV | 601044  | 29270247 | 71.12%  | 1.171% |
| 242    | 14.718 | 14.688 | 14.734 | VV | 586580  | 15935246 | 38.72%  | 0.638% |
| 243    | 14.798 | 14.734 | 14.828 | VV | 609224  | 33307715 | 80.94%  | 1.333% |
| 244    | 14.863 | 14.828 | 14.905 | VV | 643889  | 27390918 | 66.56%  | 1.096% |
| 245    | 14.935 | 14.905 | 14.951 | VV | 579031  | 15537430 | 37.76%  | 0.622% |
| 246    | 14.984 | 14.951 | 15.054 | VV | 586340  | 35197457 | 85.53%  | 1.408% |

| rteres |        |        |        |    |        |          |        |        |
|--------|--------|--------|--------|----|--------|----------|--------|--------|
| 247    | 15.073 | 15.054 | 15.097 | VV | 567582 | 14356613 | 34.89% | 0.575% |
| 248    | 15.114 | 15.097 | 15.129 | VV | 556454 | 10848185 | 26.36% | 0.434% |
| 249    | 15.162 | 15.129 | 15.188 | VV | 586386 | 19776757 | 48.06% | 0.791% |
| 250    | 15.199 | 15.188 | 15.228 | VV | 560574 | 13289027 | 32.29% | 0.532% |
| 251    | 15.265 | 15.228 | 15.285 | VV | 620464 | 19933692 | 48.44% | 0.798% |
| 252    | 15.314 | 15.285 | 15.362 | VV | 740226 | 28528601 | 69.32% | 1.142% |
| 253    | 15.377 | 15.362 | 15.403 | VV | 551422 | 13261714 | 32.23% | 0.531% |
| 254    | 15.419 | 15.403 | 15.444 | VV | 528251 | 12787700 | 31.07% | 0.512% |
| 255    | 15.468 | 15.444 | 15.483 | VV | 550212 | 12422715 | 30.19% | 0.497% |
| 256    | 15.506 | 15.483 | 15.526 | VV | 542467 | 14039769 | 34.12% | 0.562% |
| 257    | 15.560 | 15.526 | 15.622 | VV | 602112 | 31799870 | 77.27% | 1.273% |
| 258    | 15.633 | 15.622 | 15.671 | VV | 539848 | 15451867 | 37.55% | 0.618% |
| 259    | 15.694 | 15.671 | 15.734 | VV | 524347 | 19331299 | 46.97% | 0.774% |
| 260    | 15.788 | 15.734 | 15.821 | VV | 562629 | 28282230 | 68.72% | 1.132% |
| 261    | 15.834 | 15.821 | 15.860 | VV | 510851 | 11739638 | 28.53% | 0.470% |
| 262    | 15.934 | 15.860 | 15.974 | VV | 563190 | 35701543 | 86.75% | 1.429% |
| 263    | 15.991 | 15.974 | 16.015 | VV | 527151 | 12441714 | 30.23% | 0.498% |
| 264    | 16.065 | 16.015 | 16.091 | VV | 632158 | 25664124 | 62.36% | 1.027% |
| 265    | 16.104 | 16.091 | 16.152 | VV | 543937 | 18834314 | 45.77% | 0.754% |
| 266    | 16.186 | 16.152 | 16.210 | VV | 518513 | 17542601 | 42.63% | 0.702% |
| 267    | 16.225 | 16.210 | 16.245 | VV | 503232 | 10110854 | 24.57% | 0.405% |
| 268    | 16.281 | 16.245 | 16.309 | VV | 637574 | 20859150 | 50.69% | 0.835% |
| 269    | 16.339 | 16.309 | 16.371 | VV | 510339 | 18627280 | 45.26% | 0.745% |
| 270    | 16.380 | 16.371 | 16.414 | VV | 500740 | 12818730 | 31.15% | 0.513% |
| 271    | 16.451 | 16.414 | 16.476 | VV | 531376 | 19043872 | 46.28% | 0.762% |
| 272    | 16.486 | 16.476 | 16.510 | VV | 508226 | 10039748 | 24.40% | 0.402% |
| 273    | 16.553 | 16.510 | 16.619 | VV | 515049 | 31787751 | 77.24% | 1.272% |
| 274    | 16.667 | 16.619 | 16.688 | VV | 474463 | 19287977 | 46.87% | 0.772% |
| 275    | 16.713 | 16.688 | 16.766 | VV | 531032 | 22502063 | 54.68% | 0.900% |
| 276    | 16.785 | 16.766 | 16.799 | VV | 461364 | 9095523  | 22.10% | 0.364% |
| 277    | 16.810 | 16.799 | 16.841 | VV | 463165 | 11558684 | 28.09% | 0.463% |
| 278    | 16.864 | 16.841 | 16.878 | VV | 463994 | 10001251 | 24.30% | 0.400% |
| 279    | 16.924 | 16.878 | 16.976 | VV | 522840 | 27758877 | 67.45% | 1.111% |
| 280    | 17.003 | 16.976 | 17.048 | VV | 466665 | 19058964 | 46.31% | 0.763% |
| 281    | 17.054 | 17.048 | 17.062 | VV | 440718 | 3594636  | 8.73%  | 0.144% |
| 282    | 17.072 | 17.062 | 17.132 | VV | 439574 | 17893210 | 43.48% | 0.716% |
| 283    | 17.183 | 17.132 | 17.224 | VV | 499957 | 23949716 | 58.20% | 0.958% |
| 284    | 17.253 | 17.224 | 17.283 | VV | 449258 | 14910592 | 36.23% | 0.597% |
| 285    | 17.291 | 17.283 | 17.318 | VV | 397803 | 8290187  | 20.14% | 0.332% |
| 286    | 17.334 | 17.318 | 17.387 | VV | 387740 | 15718931 | 38.20% | 0.629% |
| 287    | 17.419 | 17.387 | 17.442 | VV | 376742 | 12230655 | 29.72% | 0.489% |
| 288    | 17.483 | 17.442 | 17.535 | VV | 383915 | 20595892 | 50.05% | 0.824% |
| 289    | 17.542 | 17.535 | 17.550 | VV | 369476 | 3471044  | 8.43%  | 0.139% |
| 290    | 17.566 | 17.550 | 17.594 | VV | 371492 | 9445952  | 22.95% | 0.378% |
| 291    | 17.609 | 17.594 | 17.655 | VV | 342879 | 12240230 | 29.74% | 0.490% |
| 292    | 17.710 | 17.655 | 17.788 | VV | 391854 | 27356234 | 66.47% | 1.095% |
| 293    | 17.807 | 17.788 | 17.836 | VV | 317075 | 9071048  | 22.04% | 0.363% |
| 294    | 17.858 | 17.836 | 17.885 | VV | 321829 | 9035902  | 21.96% | 0.362% |
| 295    | 17.936 | 17.885 | 17.975 | VV | 332078 | 16666657 | 40.50% | 0.667% |
| 296    | 17.992 | 17.975 | 18.000 | VV | 286612 | 4376902  | 10.64% | 0.175% |
| 297    | 18.033 | 18.000 | 18.058 | VV | 367977 | 11056028 | 26.87% | 0.442% |
| 298    | 18.073 | 18.058 | 18.130 | VV | 326364 | 12143406 | 29.51% | 0.486% |
| 299    | 18.143 | 18.130 | 18.171 | VV | 255780 | 6307546  | 15.33% | 0.252% |

Instrument :  
FID\_D  
ClientSampleId :  
PE-5

Manual Integrations  
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Instrument :  
FID\_D  
ClientSampleId :  
PE-5

Manual Integrations  
APPROVED

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| rteres |        |        |        |    |        |          |        |        |
|--------|--------|--------|--------|----|--------|----------|--------|--------|
| 300    | 18.196 | 18.171 | 18.207 | VV | 257176 | 5530326  | 13.44% | 0.221% |
| 301    | 18.217 | 18.207 | 18.248 | VV | 255273 | 6145982  | 14.93% | 0.246% |
| 302    | 18.261 | 18.248 | 18.333 | VV | 261518 | 12496526 | 30.37% | 0.500% |
| 303    | 18.349 | 18.333 | 18.360 | VV | 237002 | 3807744  | 9.25%  | 0.152% |
| 304    | 18.387 | 18.360 | 18.465 | VV | 280825 | 14630901 | 35.55% | 0.585% |
| 305    | 18.490 | 18.465 | 18.523 | VV | 227078 | 7523874  | 18.28% | 0.301% |
| 306    | 18.540 | 18.523 | 18.553 | VV | 214937 | 3739053  | 9.09%  | 0.150% |
| 307    | 18.570 | 18.553 | 18.646 | VV | 218623 | 11391269 | 27.68% | 0.456% |
| 308    | 18.668 | 18.646 | 18.717 | VV | 198129 | 8033180  | 19.52% | 0.321% |
| 309    | 18.740 | 18.717 | 18.752 | VV | 189919 | 3894531  | 9.46%  | 0.156% |
| 310    | 18.760 | 18.752 | 18.764 | VV | 185650 | 1305995  | 3.17%  | 0.052% |
| 311    | 18.783 | 18.764 | 18.798 | VV | 192484 | 3869303  | 9.40%  | 0.155% |
| 312    | 18.817 | 18.798 | 18.865 | VV | 219349 | 7418532  | 18.03% | 0.297% |
| 313    | 18.884 | 18.865 | 18.907 | VV | 166487 | 4105842  | 9.98%  | 0.164% |
| 314    | 18.919 | 18.907 | 18.938 | VV | 160759 | 2933041  | 7.13%  | 0.117% |
| 315    | 18.978 | 18.938 | 19.111 | VV | 168144 | 15515147 | 37.70% | 0.621% |
| 316    | 19.128 | 19.111 | 19.141 | VV | 137650 | 2453867  | 5.96%  | 0.098% |
| 317    | 19.190 | 19.141 | 19.235 | VV | 157878 | 7930577  | 19.27% | 0.317% |
| 318    | 19.298 | 19.235 | 19.336 | VV | 133223 | 7560617  | 18.37% | 0.303% |
| 319    | 19.359 | 19.336 | 19.421 | VV | 121317 | 5753455  | 13.98% | 0.230% |
| 320    | 19.468 | 19.421 | 19.484 | VV | 118430 | 4125993  | 10.03% | 0.165% |
| 321    | 19.500 | 19.484 | 19.524 | VV | 112867 | 2614698  | 6.35%  | 0.105% |
| 322    | 19.566 | 19.524 | 19.643 | VV | 122623 | 7394680  | 17.97% | 0.296% |
| 323    | 19.661 | 19.643 | 19.674 | VV | 90080  | 1645482  | 4.00%  | 0.066% |
| 324    | 19.688 | 19.674 | 19.740 | VV | 90976  | 3388145  | 8.23%  | 0.136% |
| 325    | 19.751 | 19.740 | 19.783 | VV | 83615  | 2112135  | 5.13%  | 0.085% |
| 326    | 19.797 | 19.783 | 19.845 | VV | 81808  | 2934992  | 7.13%  | 0.117% |
| 327    | 19.854 | 19.845 | 19.924 | VV | 76611  | 3417878  | 8.31%  | 0.137% |
| 328    | 19.933 | 19.924 | 19.975 | VV | 69928  | 2088302  | 5.07%  | 0.084% |
| 329    | 20.001 | 19.975 | 20.047 | VV | 76086  | 2869180  | 6.97%  | 0.115% |
| 330    | 20.065 | 20.047 | 20.118 | VV | 65595  | 2625571  | 6.38%  | 0.105% |
| 331    | 20.155 | 20.118 | 20.230 | VV | 147453 | 5066012  | 12.31% | 0.203% |
| 332    | 20.274 | 20.230 | 20.311 | VV | 53393  | 2407750  | 5.85%  | 0.096% |
| 333    | 20.346 | 20.311 | 20.445 | VV | 46165  | 3453617  | 8.39%  | 0.138% |
| 334    | 20.455 | 20.445 | 20.534 | VV | 42226  | 2020923  | 4.91%  | 0.081% |
| 335    | 20.556 | 20.534 | 20.595 | VV | 32691  | 1148158  | 2.79%  | 0.046% |
| 336    | 20.600 | 20.595 | 20.642 | VV | 30470  | 804682   | 1.96%  | 0.032% |
| 337    | 20.688 | 20.642 | 20.758 | VV | 31438  | 1755378  | 4.27%  | 0.070% |
| 338    | 20.764 | 20.758 | 20.784 | VV | 20534  | 316413   | 0.77%  | 0.013% |
| 339    | 20.852 | 20.784 | 20.960 | VV | 102078 | 3829129  | 9.30%  | 0.153% |
| 340    | 20.995 | 20.960 | 21.026 | VV | 13550  | 495426   | 1.20%  | 0.020% |
| 341    | 21.044 | 21.026 | 21.088 | VV | 11973  | 406695   | 0.99%  | 0.016% |
| 342    | 21.095 | 21.088 | 21.178 | VV | 10526  | 413170   | 1.00%  | 0.017% |
| 343    | 21.203 | 21.178 | 21.333 | VV | 6202   | 420185   | 1.02%  | 0.017% |
| 344    | 21.381 | 21.333 | 21.421 | VV | 2781   | 94162    | 0.23%  | 0.004% |
| 345    | 21.434 | 21.421 | 21.474 | VV | 1478   | 23888    | 0.06%  | 0.001% |

Sum of corrected areas: 2498951083

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