

rteres.txt

## Area Percent Report

Instrument :  
FID\_F  
ClientSampleId :  
OR-03-112918-AMSD

Manual Integrations  
APPROVED

mohammad  
12/5/2018 11:35:03 AM

Data Path : \\TERASTORAGE\Terastorage\pestpcbsrv\HPCHEM1\FID\_F\Data\  
Data File : FF002859.D  
Signal(s) : FID2B.ch  
Acq On : 30 Nov 2018 03:57 pm  
Sample : J5770-13MSD 2X  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\FF111418.M  
Title :

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         | 4.372       | 4.342        | 4.401      | BH       | 80738          | 764042       | 23.27%         | 0.842%        |
| 2         | 4.413       | 4.401        | 4.429      | HH       | 621            | 6684         | 0.20%          | 0.007%        |
| 3         | 4.446       | 4.429        | 4.461      | HH       | 356            | 4103         | 0.12%          | 0.005%        |
| 4         | 4.474       | 4.461        | 4.504      | HH       | 421            | 5140         | 0.16%          | 0.006%        |
| 5         | 4.521       | 4.504        | 4.556      | HH       | 1541           | 18255        | 0.56%          | 0.020%        |
| 6         | 4.592       | 4.556        | 4.616      | HH       | 1491           | 26016        | 0.79%          | 0.029%        |
| 7         | 4.625       | 4.616        | 4.643      | HH       | 737            | 9304         | 0.28%          | 0.010%        |
| 8         | 4.651       | 4.643        | 4.676      | HH       | 518            | 7215         | 0.22%          | 0.008%        |
| 9         | 4.683       | 4.676        | 4.694      | HH       | 363            | 3400         | 0.10%          | 0.004%        |
| 10        | 4.710       | 4.694        | 4.737      | HH       | 502            | 10088        | 0.31%          | 0.011%        |
| 11        | 4.751       | 4.737        | 4.766      | HH       | 608            | 7224         | 0.22%          | 0.008%        |
| 12        | 4.790       | 4.766        | 4.810      | HH       | 580            | 10879        | 0.33%          | 0.012%        |
| 13        | 4.829       | 4.810        | 4.837      | HH       | 568            | 7348         | 0.22%          | 0.008%        |
| 14        | 4.844       | 4.837        | 4.882      | HH       | 637            | 9684         | 0.30%          | 0.011%        |
| 15        | 4.903       | 4.882        | 4.917      | HH       | 432            | 6933         | 0.21%          | 0.008%        |
| 16        | 4.931       | 4.917        | 4.945      | HH       | 404            | 5854         | 0.18%          | 0.006%        |
| 17        | 4.966       | 4.945        | 4.990      | HH       | 561            | 11853        | 0.36%          | 0.013%        |
| 18        | 5.013       | 4.990        | 5.037      | HH       | 747            | 14111        | 0.43%          | 0.016%        |
| 19        | 5.065       | 5.037        | 5.079      | HH       | 634            | 12231        | 0.37%          | 0.013%        |
| 20        | 5.088       | 5.079        | 5.104      | HH       | 766            | 9179         | 0.28%          | 0.010%        |
| 21        | 5.117       | 5.104        | 5.130      | HH       | 702            | 8389         | 0.26%          | 0.009%        |
| 22        | 5.134       | 5.130        | 5.138      | HH       | 398            | 1686         | 0.05%          | 0.002%        |
| 23        | 5.141       | 5.138        | 5.157      | HH       | 401            | 3625         | 0.11%          | 0.004%        |
| 24        | 5.177       | 5.157        | 5.195      | HH       | 559            | 8799         | 0.27%          | 0.010%        |
| 25        | 5.208       | 5.195        | 5.217      | HH       | 527            | 6054         | 0.18%          | 0.007%        |
| 26        | 5.233       | 5.217        | 5.252      | HH       | 868            | 12832        | 0.39%          | 0.014%        |
| 27        | 5.279       | 5.252        | 5.289      | HH       | 632            | 11809        | 0.36%          | 0.013%        |
| 28        | 5.303       | 5.289        | 5.318      | HH       | 697            | 9917         | 0.30%          | 0.011%        |
| 29        | 5.357       | 5.318        | 5.387      | HH       | 671            | 18579        | 0.57%          | 0.020%        |
| 30        | 5.412       | 5.387        | 5.429      | HH       | 2347           | 30123        | 0.92%          | 0.033%        |
| 31        | 5.438       | 5.429        | 5.456      | HH       | 1126           | 14870        | 0.45%          | 0.016%        |
| 32        | 5.467       | 5.456        | 5.484      | HH       | 637            | 9541         | 0.29%          | 0.011%        |
| 33        | 5.488       | 5.484        | 5.501      | HH       | 591            | 4956         | 0.15%          | 0.005%        |
| 34        | 5.528       | 5.501        | 5.557      | HH       | 674            | 18288        | 0.56%          | 0.020%        |
| 35        | 5.563       | 5.557        | 5.571      | HH       | 550            | 4023         | 0.12%          | 0.004%        |
| 36        | 5.595       | 5.571        | 5.620      | HH       | 1241           | 23768        | 0.72%          | 0.026%        |

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|------------|-------|-------|-------|----|-------|--------|--------|--------|
| 37         | 5.626 | 5.620 | 5.641 | HH | 608   | 6983   | 0.21%  | 0.008% |
| 38         | 5.694 | 5.641 | 5.702 | HH | 1665  | 37926  | 1.16%  | 0.042% |
| 39         | 5.711 | 5.702 | 5.736 | HH | 1668  | 26885  | 0.82%  | 0.030% |
| 40         | 5.744 | 5.736 | 5.768 | HH | 1156  | 20036  | 0.61%  | 0.022% |
| 41         | 5.782 | 5.768 | 5.799 | HH | 1550  | 20573  | 0.63%  | 0.023% |
| 42         | 5.825 | 5.799 | 5.842 | HH | 957   | 20929  | 0.64%  | 0.023% |
| 43         | 5.866 | 5.842 | 5.888 | HH | 1067  | 22607  | 0.69%  | 0.025% |
| 44         | 5.916 | 5.888 | 5.939 | HH | 1055  | 27207  | 0.83%  | 0.030% |
| 45         | 5.958 | 5.939 | 5.986 | HH | 6432  | 78823  | 2.40%  | 0.087% |
| 46         | 5.993 | 5.986 | 5.995 | HH | 1024  | 5495   | 0.17%  | 0.006% |
| 47         | 6.007 | 5.995 | 6.032 | HH | 1332  | 22076  | 0.67%  | 0.024% |
| 48         | 6.051 | 6.032 | 6.074 | HH | 1243  | 24430  | 0.74%  | 0.027% |
| 49         | 6.115 | 6.074 | 6.165 | HH | 2229  | 68873  | 2.10%  | 0.076% |
| 50         | 6.176 | 6.165 | 6.219 | HH | 1108  | 28411  | 0.87%  | 0.031% |
| 51         | 6.237 | 6.219 | 6.264 | HH | 1143  | 25520  | 0.78%  | 0.028% |
| 52         | 6.267 | 6.264 | 6.286 | HH | 857   | 10582  | 0.32%  | 0.012% |
| 53         | 6.327 | 6.286 | 6.361 | HH | 1336  | 43634  | 1.33%  | 0.048% |
| 54         | 6.392 | 6.361 | 6.444 | HH | 86018 | 894777 | 27.26% | 0.986% |
| 55         | 6.453 | 6.444 | 6.460 | HH | 855   | 7546   | 0.23%  | 0.008% |
| 56         | 6.481 | 6.460 | 6.491 | HH | 953   | 16497  | 0.50%  | 0.018% |
| 57         | 6.512 | 6.491 | 6.526 | HH | 1249  | 22488  | 0.69%  | 0.025% |
| 58         | 6.540 | 6.526 | 6.568 | HH | 1608  | 28789  | 0.88%  | 0.032% |
| 59         | 6.587 | 6.568 | 6.606 | HH | 1306  | 22886  | 0.70%  | 0.025% |
| 60         | 6.612 | 6.606 | 6.625 | HH | 953   | 9951   | 0.30%  | 0.011% |
| 61         | 6.668 | 6.625 | 6.688 | HH | 1559  | 38223  | 1.16%  | 0.042% |
| 62         | 6.717 | 6.688 | 6.724 | HH | 1414  | 24872  | 0.76%  | 0.027% |
| 63         | 6.729 | 6.724 | 6.746 | HH | 1380  | 15727  | 0.48%  | 0.017% |
| 64         | 6.752 | 6.746 | 6.758 | HH | 1051  | 7164   | 0.22%  | 0.008% |
| 65         | 6.790 | 6.758 | 6.815 | HH | 2687  | 51431  | 1.57%  | 0.057% |
| 66         | 6.828 | 6.815 | 6.843 | HH | 1050  | 15837  | 0.48%  | 0.017% |
| 67         | 6.864 | 6.843 | 6.872 | HH | 1127  | 18287  | 0.56%  | 0.020% |
| 68         | 6.915 | 6.872 | 6.932 | HH | 1946  | 52284  | 1.59%  | 0.058% |
| 69         | 6.952 | 6.932 | 6.979 | HH | 2059  | 44214  | 1.35%  | 0.049% |
| 70         | 7.012 | 6.979 | 7.038 | HH | 8880  | 132763 | 4.04%  | 0.146% |
| 71         | 7.054 | 7.038 | 7.079 | HH | 1780  | 36960  | 1.13%  | 0.041% |
| 72         | 7.096 | 7.079 | 7.123 | HH | 2316  | 46478  | 1.42%  | 0.051% |
| 73         | 7.145 | 7.123 | 7.174 | HH | 10402 | 124676 | 3.80%  | 0.137% |
| 74         | 7.191 | 7.174 | 7.216 | HH | 1400  | 29530  | 0.90%  | 0.033% |
| 75         | 7.225 | 7.216 | 7.241 | HH | 1125  | 15961  | 0.49%  | 0.018% |
| 76         | 7.245 | 7.241 | 7.251 | HH | 1142  | 6390   | 0.19%  | 0.007% |
| 77         | 7.268 | 7.251 | 7.272 | HH | 1218  | 13997  | 0.43%  | 0.015% |
| 78         | 7.294 | 7.272 | 7.302 | HH | 2101  | 30083  | 0.92%  | 0.033% |
| 79         | 7.315 | 7.302 | 7.339 | HH | 3939  | 54419  | 1.66%  | 0.060% |
| 80         | 7.372 | 7.339 | 7.399 | HH | 1304  | 44253  | 1.35%  | 0.049% |
| 81         | 7.404 | 7.399 | 7.413 | HH | 1200  | 9425   | 0.29%  | 0.010% |
| 82         | 7.417 | 7.413 | 7.421 | HH | 1022  | 5058   | 0.15%  | 0.006% |
| 83         | 7.432 | 7.421 | 7.458 | HH | 1132  | 23584  | 0.72%  | 0.026% |
| 84         | 7.488 | 7.458 | 7.518 | HH | 2048  | 52179  | 1.59%  | 0.058% |
| 85         | 7.540 | 7.518 | 7.560 | HH | 1364  | 28806  | 0.88%  | 0.032% |
| 86         | 7.603 | 7.560 | 7.617 | HH | 1363  | 40205  | 1.22%  | 0.044% |
| 87         | 7.624 | 7.617 | 7.636 | HH | 1429  | 14862  | 0.45%  | 0.016% |
| 88         | 7.646 | 7.636 | 7.667 | HH | 1484  | 24538  | 0.75%  | 0.027% |
| 89         | 7.678 | 7.667 | 7.694 | HH | 1351  | 20591  | 0.63%  | 0.023% |

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|------------|-------|-------|-------|----|-------|---------|--------|--------|
| 90         | 7.737 | 7.694 | 7.788 | HH | 4285  | 125993  | 3.84%  | 0.139% |
| 91         | 7.792 | 7.788 | 7.812 | HH | 1744  | 22937   | 0.70%  | 0.025% |
| 92         | 7.835 | 7.812 | 7.856 | HH | 2157  | 42724   | 1.30%  | 0.047% |
| 93         | 7.891 | 7.856 | 7.905 | HH | 3404  | 70577   | 2.15%  | 0.078% |
| 94         | 7.912 | 7.905 | 7.928 | HH | 2864  | 37717   | 1.15%  | 0.042% |
| 95         | 7.937 | 7.928 | 7.952 | HH | 2692  | 34965   | 1.07%  | 0.039% |
| 96         | 7.961 | 7.952 | 7.971 | HH | 2254  | 22686   | 0.69%  | 0.025% |
| 97         | 7.988 | 7.971 | 7.993 | HH | 4494  | 47176   | 1.44%  | 0.052% |
| 98         | 8.005 | 7.993 | 8.047 | HH | 5445  | 102609  | 3.13%  | 0.113% |
| 99         | 8.063 | 8.047 | 8.077 | HH | 2180  | 35255   | 1.07%  | 0.039% |
| 100        | 8.107 | 8.077 | 8.122 | HH | 10925 | 151235  | 4.61%  | 0.167% |
| 101        | 8.134 | 8.122 | 8.150 | HH | 6782  | 82021   | 2.50%  | 0.090% |
| 102        | 8.185 | 8.150 | 8.215 | HH | 86300 | 1000478 | 30.48% | 1.103% |
| 103        | 8.241 | 8.215 | 8.268 | HH | 15934 | 243933  | 7.43%  | 0.269% |
| 104        | 8.290 | 8.268 | 8.332 | HH | 22770 | 347805  | 10.59% | 0.383% |
| 105        | 8.344 | 8.332 | 8.361 | HH | 3374  | 50385   | 1.53%  | 0.056% |
| 106        | 8.379 | 8.361 | 8.399 | HH | 4225  | 71511   | 2.18%  | 0.079% |
| 107        | 8.403 | 8.399 | 8.463 | HH | 2459  | 77164   | 2.35%  | 0.085% |
| 108        | 8.471 | 8.463 | 8.497 | HH | 1857  | 35623   | 1.09%  | 0.039% |
| 109        | 8.538 | 8.497 | 8.560 | HH | 2876  | 78712   | 2.40%  | 0.087% |
| 110        | 8.585 | 8.560 | 8.615 | HH | 24767 | 303884  | 9.26%  | 0.335% |
| 111        | 8.635 | 8.615 | 8.641 | HH | 4277  | 53598   | 1.63%  | 0.059% |
| 112        | 8.651 | 8.641 | 8.689 | HH | 4590  | 99714   | 3.04%  | 0.110% |
| 113        | 8.723 | 8.689 | 8.740 | HH | 3879  | 92892   | 2.83%  | 0.102% |
| 114        | 8.750 | 8.740 | 8.762 | HH | 2568  | 32252   | 0.98%  | 0.036% |
| 115        | 8.777 | 8.762 | 8.793 | HH | 2725  | 45417   | 1.38%  | 0.050% |
| 116        | 8.825 | 8.793 | 8.840 | HH | 5016  | 99434   | 3.03%  | 0.110% |
| 117        | 8.858 | 8.840 | 8.884 | HH | 11164 | 155906  | 4.75%  | 0.172% |
| 118        | 8.901 | 8.884 | 8.918 | HH | 3554  | 60505   | 1.84%  | 0.067% |
| 119        | 8.928 | 8.918 | 8.936 | HH | 2975  | 31105   | 0.95%  | 0.034% |
| 120        | 8.949 | 8.936 | 8.967 | HH | 3169  | 54113   | 1.65%  | 0.060% |
| 121        | 9.004 | 8.967 | 9.022 | HH | 7153  | 150362  | 4.58%  | 0.166% |
| 122        | 9.035 | 9.022 | 9.076 | HH | 6083  | 115091  | 3.51%  | 0.127% |
| 123        | 9.094 | 9.076 | 9.120 | HH | 3185  | 68099   | 2.07%  | 0.075% |
| 124        | 9.151 | 9.120 | 9.168 | HH | 6053  | 105244  | 3.21%  | 0.116% |
| 125        | 9.183 | 9.168 | 9.218 | HH | 4960  | 109204  | 3.33%  | 0.120% |
| 126        | 9.234 | 9.218 | 9.253 | HH | 4806  | 77707   | 2.37%  | 0.086% |
| 127        | 9.267 | 9.253 | 9.272 | HH | 3165  | 34222   | 1.04%  | 0.038% |
| 128        | 9.287 | 9.272 | 9.308 | HH | 5174  | 79525   | 2.42%  | 0.088% |
| 129        | 9.328 | 9.308 | 9.344 | HH | 3921  | 68246   | 2.08%  | 0.075% |
| 130        | 9.368 | 9.344 | 9.427 | HH | 25104 | 409323  | 12.47% | 0.451% |
| 131        | 9.449 | 9.427 | 9.464 | HH | 5538  | 91070   | 2.77%  | 0.100% |
| 132        | 9.471 | 9.464 | 9.479 | HH | 3762  | 32734   | 1.00%  | 0.036% |
| 133        | 9.491 | 9.479 | 9.497 | HH | 3915  | 40300   | 1.23%  | 0.044% |
| 134        | 9.515 | 9.497 | 9.537 | HH | 7577  | 132130  | 4.02%  | 0.146% |
| 135        | 9.549 | 9.537 | 9.561 | HH | 4357  | 56718   | 1.73%  | 0.063% |
| 136        | 9.578 | 9.561 | 9.605 | HH | 5217  | 100702  | 3.07%  | 0.111% |
| 137        | 9.629 | 9.605 | 9.665 | HH | 4974  | 124317  | 3.79%  | 0.137% |
| 138        | 9.692 | 9.665 | 9.719 | HH | 6126  | 133615  | 4.07%  | 0.147% |
| 139        | 9.745 | 9.719 | 9.761 | HH | 3691  | 82937   | 2.53%  | 0.091% |
| 140        | 9.787 | 9.761 | 9.836 | HH | 89907 | 1128258 | 34.37% | 1.244% |
| 141        | 9.853 | 9.836 | 9.875 | HH | 3699  | 74307   | 2.26%  | 0.082% |

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|------------|--------|--------|--------|----|--------|---------|--------|--------|--|
| 142        | 9.890  | 9.875  | 9.931  | HH | 3139   | 88337   | 2.69%  | 0.097% |  |
| 143        | 9.955  | 9.931  | 9.985  | HH | 3443   | 89685   | 2.73%  | 0.099% |  |
| 144        | 9.994  | 9.985  | 10.017 | HH | 2522   | 45737   | 1.39%  | 0.050% |  |
| 145        | 10.062 | 10.017 | 10.096 | HH | 2791   | 114297  | 3.48%  | 0.126% |  |
| 146        | 10.115 | 10.096 | 10.151 | HH | 4058   | 107996  | 3.29%  | 0.119% |  |
| 147        | 10.174 | 10.151 | 10.196 | HH | 4686   | 100683  | 3.07%  | 0.111% |  |
| 148        | 10.226 | 10.196 | 10.234 | HH | 5930   | 100606  | 3.06%  | 0.111% |  |
| 149        | 10.251 | 10.234 | 10.274 | HH | 9582   | 159806  | 4.87%  | 0.176% |  |
| 150        | 10.291 | 10.274 | 10.334 | HH | 7313   | 166180  | 5.06%  | 0.183% |  |
| 151        | 10.368 | 10.334 | 10.400 | HH | 7801   | 192491  | 5.86%  | 0.212% |  |
| 152        | 10.420 | 10.400 | 10.444 | HH | 7043   | 142259  | 4.33%  | 0.157% |  |
| 153        | 10.448 | 10.444 | 10.476 | HH | 4319   | 74543   | 2.27%  | 0.082% |  |
| 154        | 10.529 | 10.476 | 10.552 | HH | 8750   | 257130  | 7.83%  | 0.283% |  |
| 155        | 10.575 | 10.552 | 10.630 | HH | 12854  | 320473  | 9.76%  | 0.353% |  |
| 156        | 10.645 | 10.630 | 10.656 | HH | 4236   | 63541   | 1.94%  | 0.070% |  |
| 157        | 10.670 | 10.656 | 10.694 | HH | 4761   | 91448   | 2.79%  | 0.101% |  |
| 158        | 10.708 | 10.694 | 10.722 | HH | 3587   | 57977   | 1.77%  | 0.064% |  |
| 159        | 10.739 | 10.722 | 10.746 | HH | 5136   | 61326   | 1.87%  | 0.068% |  |
| 160        | 10.771 | 10.746 | 10.814 | HH | 126718 | 1485415 | 45.25% | 1.638% |  |
| 161        | 10.845 | 10.814 | 10.892 | HH | 40407  | 658702  | 20.07% | 0.726% |  |
| 162        | 10.899 | 10.892 | 10.911 | HH | 5038   | 53852   | 1.64%  | 0.059% |  |
| 163        | 10.920 | 10.911 | 10.967 | HH | 4819   | 144148  | 4.39%  | 0.159% |  |
| 164        | 10.983 | 10.967 | 10.999 | HH | 4283   | 74491   | 2.27%  | 0.082% |  |
| 165        | 11.019 | 10.999 | 11.039 | HH | 4061   | 91769   | 2.80%  | 0.101% |  |
| 166        | 11.061 | 11.039 | 11.106 | HH | 15834  | 304312  | 9.27%  | 0.335% |  |
| 167        | 11.133 | 11.106 | 11.149 | HH | 4910   | 115708  | 3.52%  | 0.128% |  |
| 168        | 11.168 | 11.149 | 11.190 | HH | 5512   | 119837  | 3.65%  | 0.132% |  |
| 169        | 11.199 | 11.190 | 11.203 | HH | 4979   | 38828   | 1.18%  | 0.043% |  |
| 170        | 11.231 | 11.203 | 11.257 | HH | 83885  | 1061121 | 32.32% | 1.170% |  |
| 171        | 11.264 | 11.257 | 11.275 | HH | 6120   | 63169   | 1.92%  | 0.070% |  |
| 172        | 11.296 | 11.275 | 11.345 | HH | 11335  | 326702  | 9.95%  | 0.360% |  |
| 173        | 11.373 | 11.345 | 11.397 | HH | 6204   | 160562  | 4.89%  | 0.177% |  |
| 174        | 11.425 | 11.397 | 11.449 | HH | 10798  | 209925  | 6.39%  | 0.231% |  |
| 175        | 11.465 | 11.449 | 11.491 | HH | 5918   | 125613  | 3.83%  | 0.138% |  |
| 176        | 11.499 | 11.491 | 11.507 | HH | 4350   | 42756   | 1.30%  | 0.047% |  |
| 177        | 11.527 | 11.507 | 11.546 | HH | 5740   | 114566  | 3.49%  | 0.126% |  |
| 178        | 11.575 | 11.546 | 11.590 | HH | 26970  | 386625  | 11.78% | 0.426% |  |
| 179        | 11.606 | 11.590 | 11.634 | HH | 30854  | 421481  | 12.84% | 0.465% |  |
| 180        | 11.689 | 11.634 | 11.707 | HH | 30987  | 605499  | 18.44% | 0.668% |  |
| 181        | 11.723 | 11.707 | 11.738 | HH | 22933  | 295146  | 8.99%  | 0.325% |  |
| 182        | 11.754 | 11.738 | 11.783 | HH | 25202  | 369666  | 11.26% | 0.408% |  |
| 183        | 11.800 | 11.783 | 11.812 | HH | 5174   | 86800   | 2.64%  | 0.096% |  |
| 184        | 11.833 | 11.812 | 11.856 | HH | 6269   | 140425  | 4.28%  | 0.155% |  |
| 185        | 11.901 | 11.856 | 11.915 | HH | 8544   | 222614  | 6.78%  | 0.245% |  |
| 186        | 11.933 | 11.915 | 11.942 | HH | 12020  | 162210  | 4.94%  | 0.179% |  |
| 187        | 11.952 | 11.942 | 12.007 | HH | 13812  | 338424  | 10.31% | 0.373% |  |
| 188        | 12.013 | 12.007 | 12.022 | HH | 5206   | 45631   | 1.39%  | 0.050% |  |
| 189        | 12.048 | 12.022 | 12.070 | HH | 16849  | 288781  | 8.80%  | 0.318% |  |
| 190        | 12.077 | 12.070 | 12.091 | HH | 7844   | 88351   | 2.69%  | 0.097% |  |
| 191        | 12.110 | 12.091 | 12.132 | HH | 9350   | 181080  | 5.52%  | 0.200% |  |
| 192        | 12.146 | 12.132 | 12.171 | HH | 8358   | 153079  | 4.66%  | 0.169% |  |
| 193        | 12.198 | 12.171 | 12.211 | HH | 7162   | 156298  | 4.76%  | 0.172% |  |
| 194        | 12.226 | 12.211 | 12.240 | HH | 7788   | 123160  | 3.75%  | 0.136% |  |

Instrument :  
FID\_F  
ClientSampleId :  
OR-03-112918-AMSD

Manual Integrations  
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Instrument :  
FID\_F  
ClientSampleId :  
OR-03-112918-AMSD

Manual Integrations  
APPROVED

mohammad  
12/5/2018 11:35:03 AM

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 195        | 12.255 | 12.240 | 12.267 | HH | 7678   | 114415  | 3.49%  | 0.126% |
| 196        | 12.277 | 12.267 | 12.286 | HH | 6902   | 75109   | 2.29%  | 0.083% |
| 197        | 12.323 | 12.286 | 12.347 | HH | 9048   | 282488  | 8.61%  | 0.311% |
| 198        | 12.367 | 12.347 | 12.404 | HH | 13242  | 314842  | 9.59%  | 0.347% |
| 199        | 12.425 | 12.404 | 12.455 | HH | 12902  | 274745  | 8.37%  | 0.303% |
| 200        | 12.477 | 12.455 | 12.496 | HH | 28271  | 431585  | 13.15% | 0.476% |
| 201        | 12.513 | 12.496 | 12.520 | HH | 14808  | 179760  | 5.48%  | 0.198% |
| 202        | 12.543 | 12.520 | 12.567 | HH | 87430  | 1204264 | 36.68% | 1.328% |
| 203        | 12.593 | 12.567 | 12.637 | HH | 217735 | 2670697 | 81.36% | 2.944% |
| 204        | 12.652 | 12.637 | 12.672 | HH | 7017   | 128906  | 3.93%  | 0.142% |
| 205        | 12.690 | 12.672 | 12.704 | HH | 7225   | 126239  | 3.85%  | 0.139% |
| 206        | 12.728 | 12.704 | 12.745 | HH | 18235  | 304449  | 9.27%  | 0.336% |
| 207        | 12.756 | 12.745 | 12.764 | HH | 11499  | 124133  | 3.78%  | 0.137% |
| 208        | 12.780 | 12.764 | 12.820 | HH | 16131  | 404369  | 12.32% | 0.446% |
| 209        | 12.833 | 12.820 | 12.860 | HH | 11452  | 227310  | 6.92%  | 0.251% |
| 210        | 12.892 | 12.860 | 12.922 | HH | 189255 | 2315954 | 70.55% | 2.553% |
| 211        | 12.949 | 12.922 | 12.955 | HH | 20965  | 287099  | 8.75%  | 0.317% |
| 212        | 12.975 | 12.955 | 13.010 | HH | 53930  | 930367  | 28.34% | 1.026% |
| 213        | 13.030 | 13.010 | 13.050 | HH | 23948  | 373252  | 11.37% | 0.412% |
| 214        | 13.065 | 13.050 | 13.078 | HH | 13896  | 198230  | 6.04%  | 0.219% |
| 215        | 13.087 | 13.078 | 13.122 | HH | 12061  | 243375  | 7.41%  | 0.268% |
| 216        | 13.160 | 13.122 | 13.193 | HH | 17556  | 451839  | 13.76% | 0.498% |
| 217        | 13.227 | 13.193 | 13.255 | HH | 14074  | 412529  | 12.57% | 0.455% |
| 218        | 13.289 | 13.255 | 13.307 | HH | 14120  | 318924  | 9.72%  | 0.352% |
| 219        | 13.321 | 13.307 | 13.329 | HH | 11205  | 142043  | 4.33%  | 0.157% |
| 220        | 13.351 | 13.329 | 13.377 | HH | 23609  | 470475  | 14.33% | 0.519% |
| 221        | 13.385 | 13.377 | 13.429 | HH | 10104  | 269114  | 8.20%  | 0.297% |
| 222        | 13.482 | 13.429 | 13.519 | HH | 45598  | 1050969 | 32.01% | 1.159% |
| 223        | 13.551 | 13.519 | 13.566 | HH | 11585  | 287947  | 8.77%  | 0.317% |
| 224        | 13.589 | 13.566 | 13.610 | HH | 29240  | 498830  | 15.20% | 0.550% |
| 225        | 13.628 | 13.610 | 13.652 | HH | 30196  | 471076  | 14.35% | 0.519% |
| 226        | 13.670 | 13.652 | 13.692 | HH | 11713  | 253206  | 7.71%  | 0.279% |
| 227        | 13.744 | 13.692 | 13.779 | HH | 90488  | 1739883 | 53.00% | 1.918% |
| 228        | 13.798 | 13.779 | 13.838 | HH | 26677  | 537416  | 16.37% | 0.592% |
| 229        | 13.875 | 13.838 | 13.894 | HH | 11793  | 345529  | 10.53% | 0.381% |
| 230        | 13.917 | 13.894 | 13.933 | HH | 10135  | 218581  | 6.66%  | 0.241% |
| 231        | 13.945 | 13.933 | 13.952 | HH | 9738   | 112499  | 3.43%  | 0.124% |
| 232        | 13.966 | 13.952 | 14.004 | HH | 10306  | 308723  | 9.40%  | 0.340% |
| 233        | 14.011 | 14.004 | 14.040 | HH | 9911   | 197706  | 6.02%  | 0.218% |
| 234        | 14.046 | 14.040 | 14.051 | HH | 9066   | 58281   | 1.78%  | 0.064% |
| 235        | 14.069 | 14.051 | 14.084 | HH | 10328  | 194014  | 5.91%  | 0.214% |
| 236        | 14.103 | 14.084 | 14.132 | HH | 10914  | 289367  | 8.81%  | 0.319% |
| 237        | 14.181 | 14.132 | 14.199 | HH | 16941  | 530838  | 16.17% | 0.585% |
| 238        | 14.217 | 14.199 | 14.261 | HH | 26496  | 617419  | 18.81% | 0.681% |
| 239        | 14.318 | 14.261 | 14.351 | HH | 17700  | 749449  | 22.83% | 0.826% |
| 240        | 14.396 | 14.351 | 14.417 | HH | 29424  | 753279  | 22.95% | 0.830% |
| 241        | 14.423 | 14.417 | 14.437 | HH | 16931  | 195379  | 5.95%  | 0.215% |
| 242        | 14.460 | 14.437 | 14.483 | HH | 45033  | 737910  | 22.48% | 0.814% |
| 243        | 14.521 | 14.483 | 14.552 | HH | 29375  | 795452  | 24.23% | 0.877% |
| 244        | 14.587 | 14.552 | 14.602 | HH | 15368  | 395239  | 12.04% | 0.436% |
| 245        | 14.646 | 14.602 | 14.688 | HH | 79161  | 1608828 | 49.01% | 1.774% |
| 246        | 14.725 | 14.688 | 14.744 | HH | 23394  | 544687  | 16.59% | 0.601% |

Instrument :  
FID\_F  
ClientSampleId :  
OR-03-112918-AMSD

Manual Integrations  
APPROVED

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| rteres.txt              |        |        |        |    |        |         |          |        |
|-------------------------|--------|--------|--------|----|--------|---------|----------|--------|
| 247                     | 14.773 | 14.744 | 14.793 | HH | 122371 | 1709834 | 52.09%   | 1.885% |
| 248                     | 14.814 | 14.793 | 14.833 | HH | 123943 | 1693320 | 51.58%   | 1.867% |
| 249                     | 14.850 | 14.833 | 14.887 | HH | 85120  | 1388439 | 42.29%   | 1.531% |
| 250                     | 14.933 | 14.887 | 14.966 | HH | 39907  | 1072674 | 32.68%   | 1.183% |
| 251                     | 14.979 | 14.966 | 14.996 | HH | 19115  | 322464  | 9.82%    | 0.356% |
| 252                     | 15.012 | 14.996 | 15.046 | HH | 21311  | 530117  | 16.15%   | 0.584% |
| 253                     | 15.077 | 15.046 | 15.100 | HH | 25048  | 652119  | 19.86%   | 0.719% |
| 254                     | 15.112 | 15.100 | 15.174 | HH | 22670  | 858249  | 26.14%   | 0.946% |
| 255                     | 15.191 | 15.174 | 15.195 | HH | 18462  | 223001  | 6.79%    | 0.246% |
| 256                     | 15.236 | 15.195 | 15.299 | HH | 34327  | 1494748 | 45.53%   | 1.648% |
| 257                     | 15.305 | 15.299 | 15.307 | HH | 17869  | 82705   | 2.52%    | 0.091% |
| 258                     | 15.312 | 15.307 | 15.337 | HH | 18233  | 322053  | 9.81%    | 0.355% |
| 259                     | 15.367 | 15.337 | 15.389 | HH | 21560  | 599533  | 18.26%   | 0.661% |
| 260                     | 15.407 | 15.389 | 15.420 | HH | 23459  | 396873  | 12.09%   | 0.438% |
| 261                     | 15.448 | 15.420 | 15.469 | HH | 47532  | 941782  | 28.69%   | 1.038% |
| 262                     | 15.485 | 15.469 | 15.514 | HH | 30996  | 662306  | 20.18%   | 0.730% |
| 263                     | 15.530 | 15.514 | 15.546 | HH | 23391  | 422544  | 12.87%   | 0.466% |
| 264                     | 15.611 | 15.546 | 15.657 | HH | 35525  | 1735744 | 52.87%   | 1.914% |
| 265                     | 15.687 | 15.657 | 15.716 | HH | 24234  | 777642  | 23.69%   | 0.857% |
| 266                     | 15.731 | 15.716 | 15.736 | HH | 20641  | 236554  | 7.21%    | 0.261% |
| 267                     | 15.741 | 15.736 | 15.751 | HH | 20559  | 190617  | 5.81%    | 0.210% |
| 268                     | 15.772 | 15.751 | 15.792 | HH | 25693  | 567048  | 17.27%   | 0.625% |
| 269                     | 15.805 | 15.792 | 15.827 | HH | 23675  | 473048  | 14.41%   | 0.522% |
| 270                     | 15.874 | 15.827 | 15.910 | HH | 96353  | 2074279 | 63.19%   | 2.287% |
| 271                     | 15.916 | 15.910 | 15.924 | HH | 21216  | 181373  | 5.53%    | 0.200% |
| 272                     | 15.934 | 15.924 | 15.949 | HH | 21666  | 321306  | 9.79%    | 0.354% |
| 273                     | 15.952 | 15.949 | 15.966 | HH | 21604  | 214797  | 6.54%    | 0.237% |
| 274                     | 15.985 | 15.966 | 16.005 | HH | 22347  | 510333  | 15.55%   | 0.563% |
| 275                     | 16.061 | 16.005 | 16.078 | HH | 30017  | 1087023 | 33.11%   | 1.198% |
| 276                     | 16.088 | 16.078 | 16.102 | HH | 25691  | 357162  | 10.88%   | 0.394% |
| 277                     | 16.119 | 16.102 | 16.141 | HH | 28013  | 595852  | 18.15%   | 0.657% |
| 278                     | 16.164 | 16.141 | 16.193 | HH | 30244  | 874012  | 26.62%   | 0.964% |
| 279                     | 16.264 | 16.193 | 16.294 | HH | 38744  | 1805687 | 55.01%   | 1.991% |
| 280                     | 16.336 | 16.294 | 16.354 | HH | 143666 | 2591930 | 78.96%   | 2.858% |
| 281                     | 16.362 | 16.354 | 16.406 | HH | 83712  | 1456313 | 44.36%   | 1.606% |
| 282                     | 16.466 | 16.406 | 16.490 | HH | 53276  | 1750606 | 53.33%   | 1.930% |
| 283                     | 16.507 | 16.490 | 16.546 | HH | 32437  | 1039307 | 31.66%   | 1.146% |
| 284                     | 16.555 | 16.546 | 16.567 | HH | 30292  | 382789  | 11.66%   | 0.422% |
| 285                     | 16.583 | 16.567 | 16.605 | HH | 32601  | 708053  | 21.57%   | 0.781% |
| 286                     | 16.656 | 16.605 | 16.685 | HH | 101340 | 2674950 | 81.48%   | 2.949% |
| 287                     | 16.715 | 16.685 | 16.759 | HH | 125036 | 2604053 | 79.33%   | 2.871% |
| 288                     | 16.824 | 16.759 | 16.856 | HH | 120257 | 3282757 | 100.00%  | 3.619% |
| Sum of corrected areas: |        |        |        |    |        |         | 90704234 |        |

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