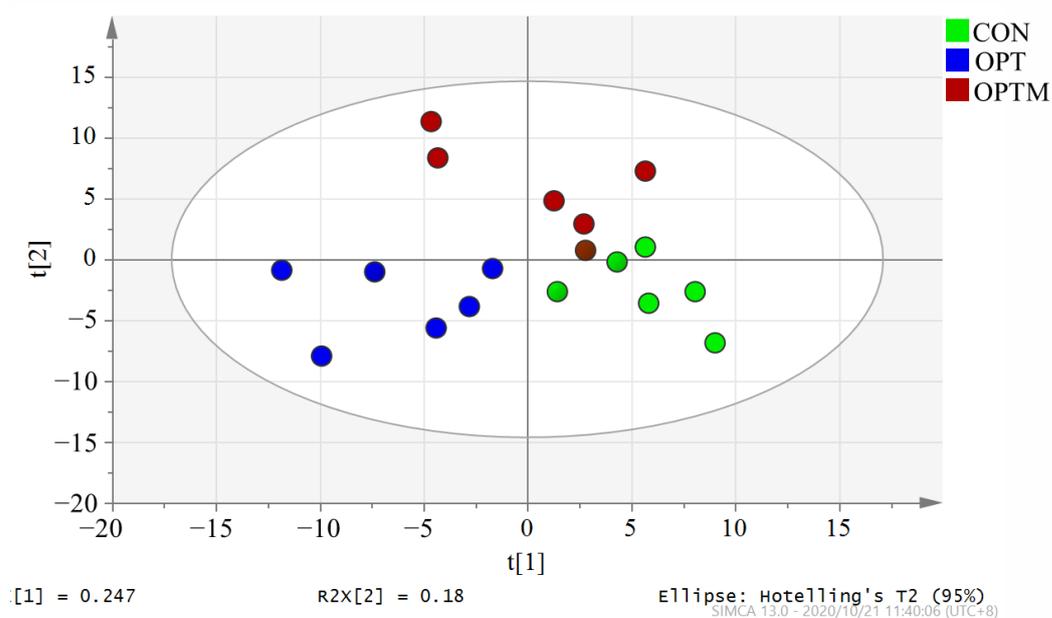
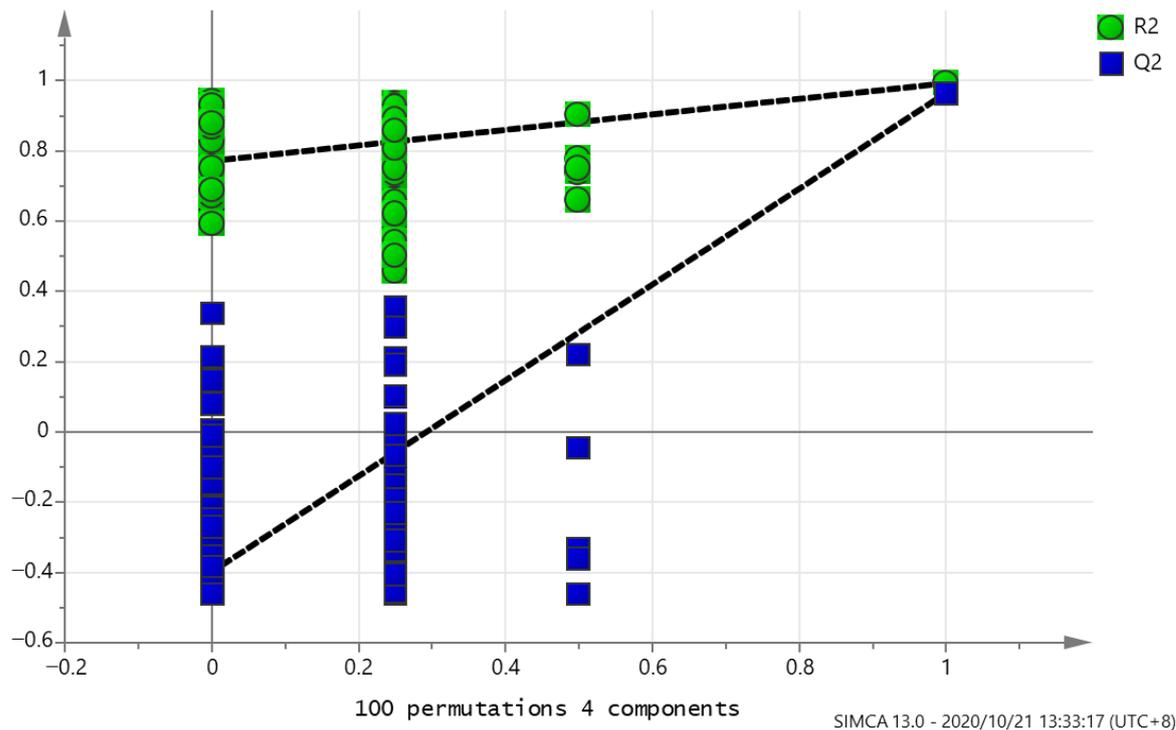


Supplementary Figure. S1. Random distribution of three types of fertilized plots in an experimental tea field in Anxi, Fujian.



Supplementary Figure. S2. PCA score plots derived from non-targeted metabolite profiling of three different treatments analyzed by HPLC-TOF-MS and GC-TOF-MS.



Supplementary Figure. S3. The response permutation test ($n = 100$) to estimate the statistical significance of the PLS-DA model. The value of the R^2 and Q^2 on the extreme right-hand side of the plot and always larger than the corresponding values of the models fitted to the permuted response. Y -axis intercepts: $R^2 = 0.75$ and $Q^2 = -0.40$, showed a low risk of over fitting and reliable [1,2].

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