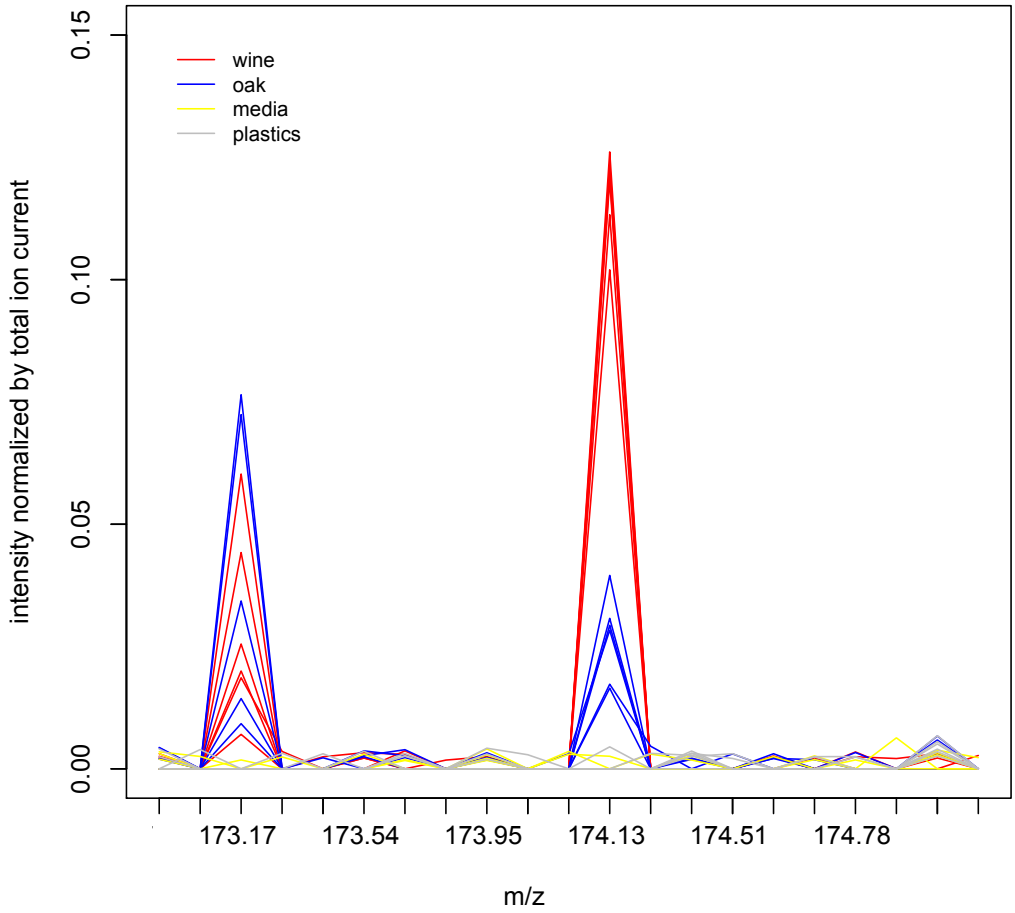
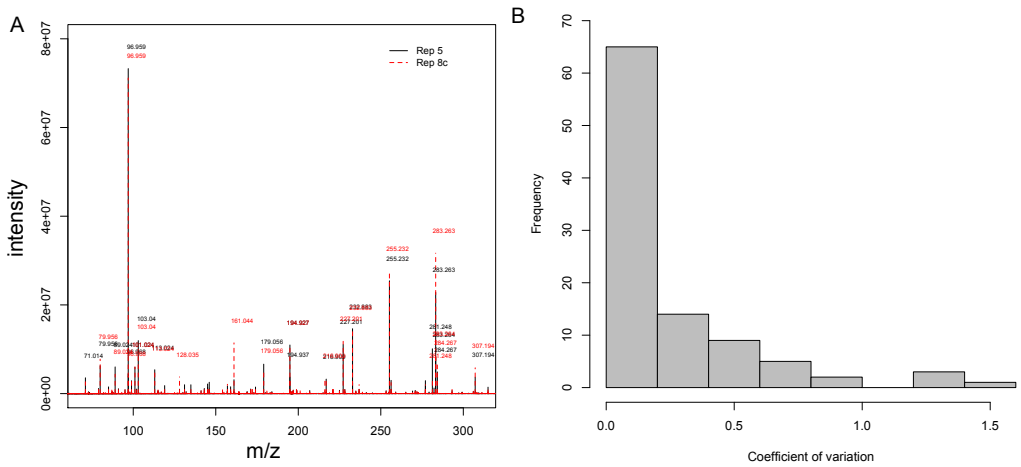


Supplemental Figure 1. Direct injection mass spectrometry captures biological metabolites. We directly injected extractions into the mass spectrometer and normalized reads by total ion current (red and blue lines depict biological samples wine parent and oak parent respectively; yellow and gray depicts negative samples without cells and without either media or cells respectively). To focus on biologically relevant metabolites, we excluded metabolites whose abundance in the negative controls were equal or greater than half of the mean of all biological samples. We excluded the peaks depicted here except the peaks at 173.17 m/z and 174.13 m/z.



Supplemental Figure 2. Direct injection mass spectrometry reproducibility. **(A)** We mixed the oak and wine parents in equal amounts, and extracted the mix to create a standard that was directly injected into the mass spectrometry at least once every 48 runs. We show the raw spectra for two runs of the standard. **(B)** Histogram of the coefficient of variation for each metabolite measured over 11 replicates of the standard**.** Frequency is the number of metabolites for a given coefficient of variation.