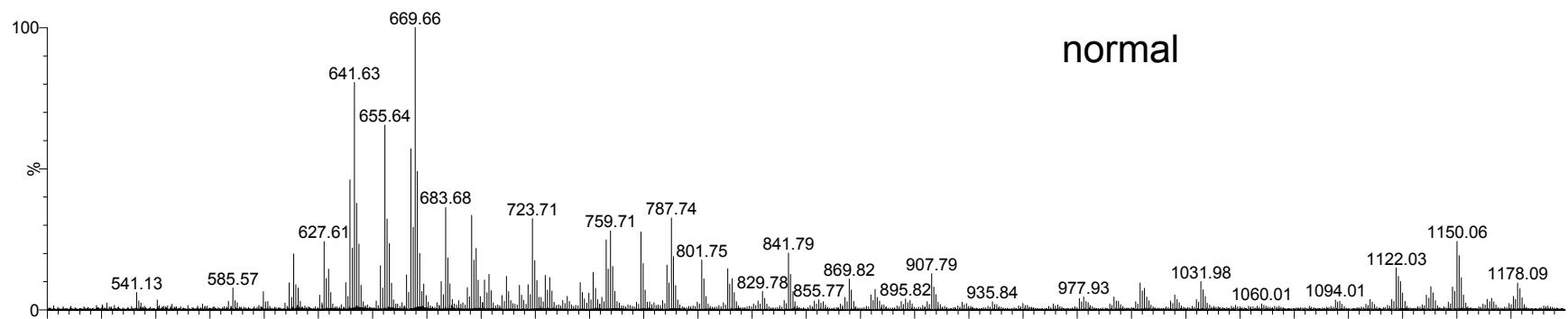
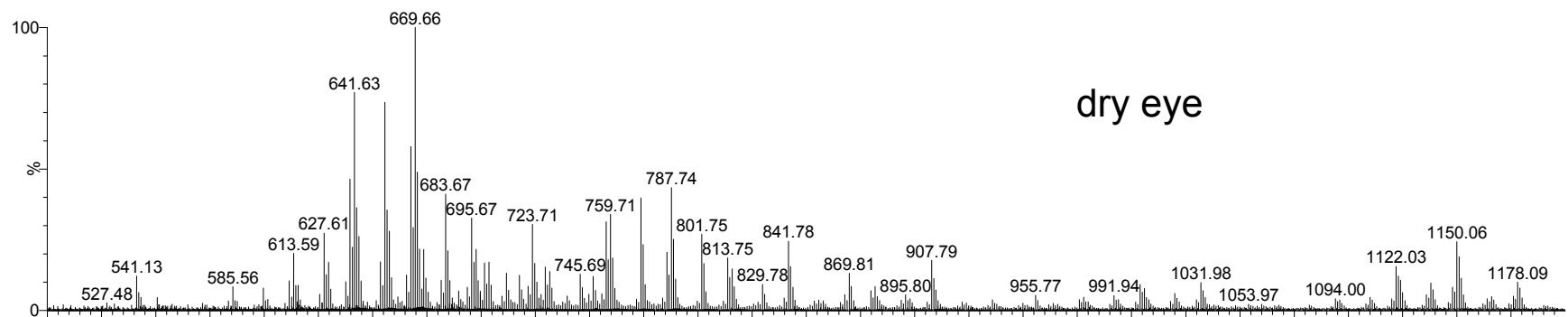


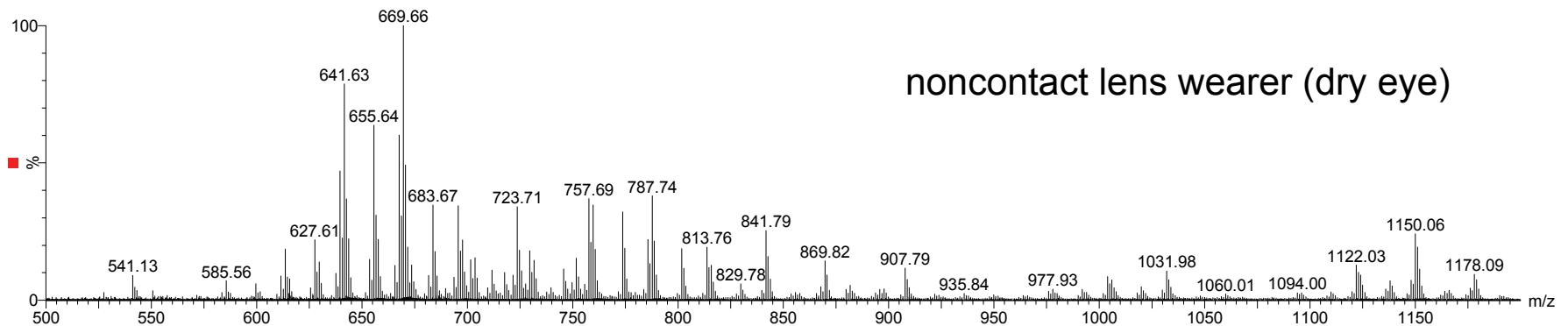
Supplementary Figure S1. Comparison of MS spectra of a meibum sample with 1 mM sodium iodide additive at different cone voltages: a) 15V; b) 50V and c) 75V. The other experimental conditions are the same as in Figure 1. Only the range m/z 600-1200 of the spectra is shown. The cluster ions are mainly composed of multiple ion pairs of Na^+ and I^- and one Na^+ , sometimes with additional ion pair of Na^+ and Cl^- . The anion Cl^- was most likely from chloroform.



normal

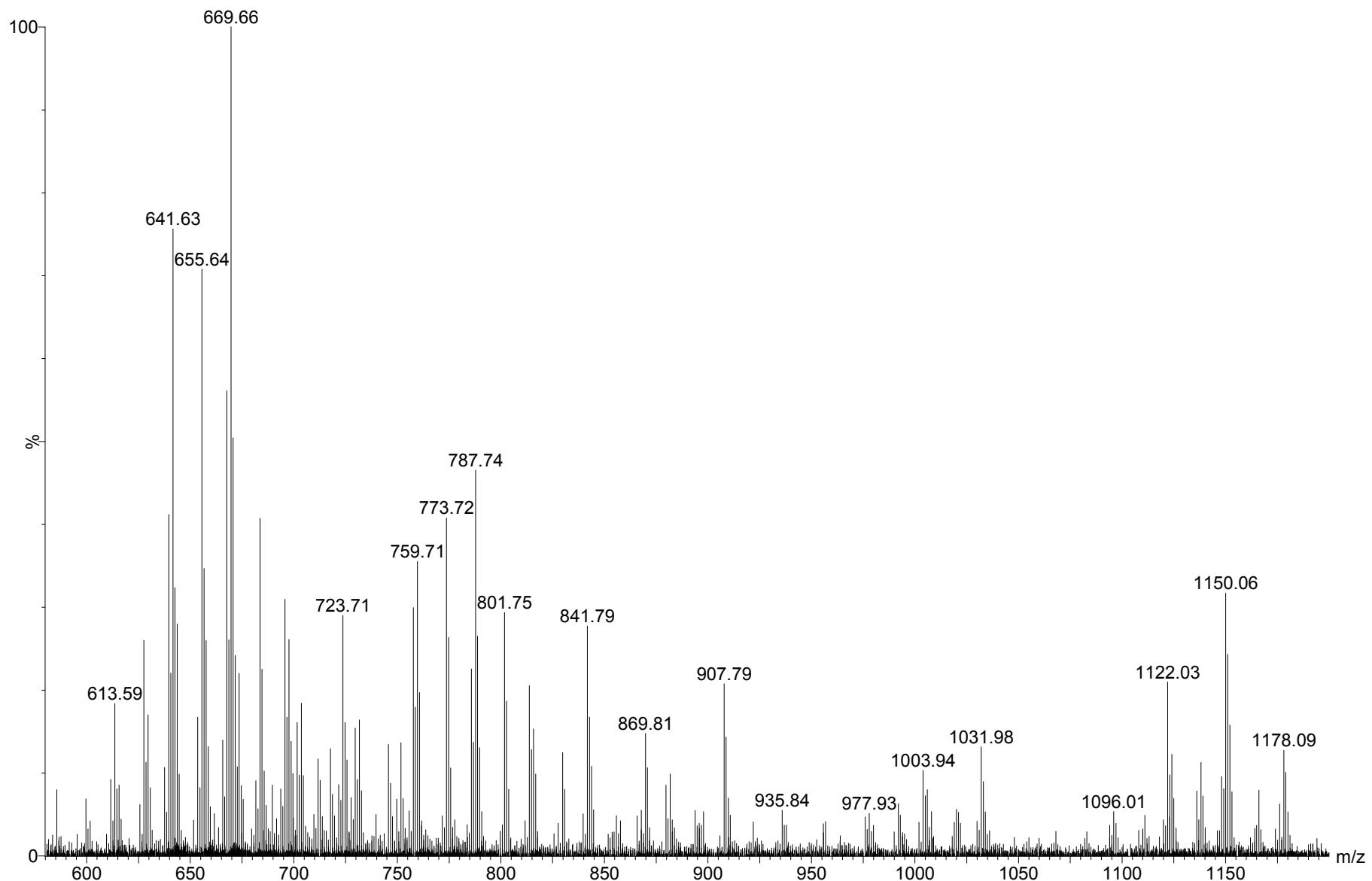


dry eye



noncontact lens wearer (dry eye)

Supplementary Figure S2. Representative spectra for each group of meibum samples. The spectra were acquired at cone voltage of 50V. Each sample containing ~ 3.2 µg/mL lipids was diluted from stock solution with the final composition of 1.3% chloroform and 98.7% methanol (v/v) and the additive of 33 µM NaI. The flow rate was 40 µl/min, the desolvation temperature was 250°C and the acquisition time was 5 min.



Supplementary Figure S3. Representative spectrum for a meibum sample with the acquisition of 1 scan (1 s). The experimental condition is the same as in **Supplementary Figure S2**.