

Supporting Information

Direct Ionization of Biological Tissue for Mass Spectrometric Analysis

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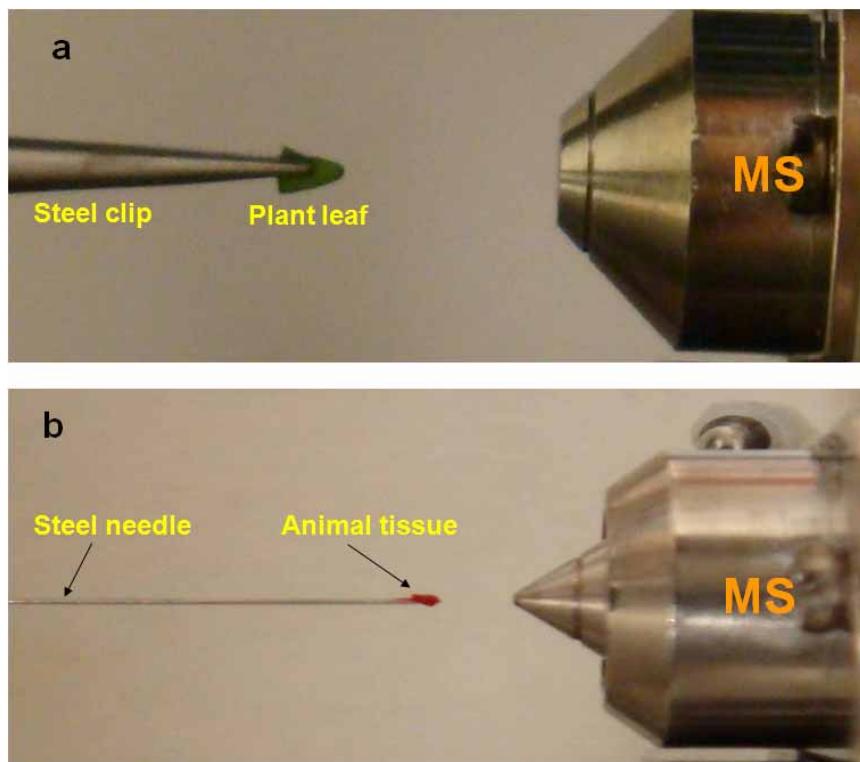


Figure S1. Photos of experimental setup for DI analysis of plant tissue (a) and animal tissue (b).

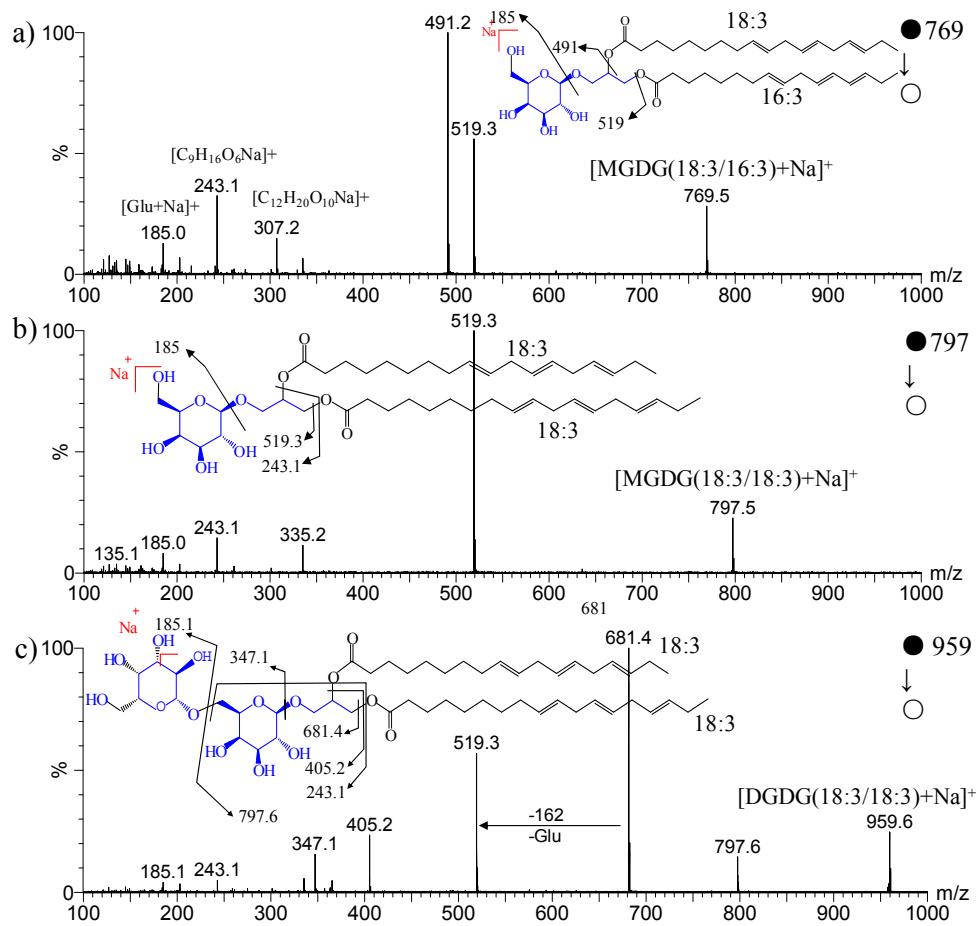


Figure S2. MS/MS spectra of major ions observed in DI spectrum of the spinach leaf.

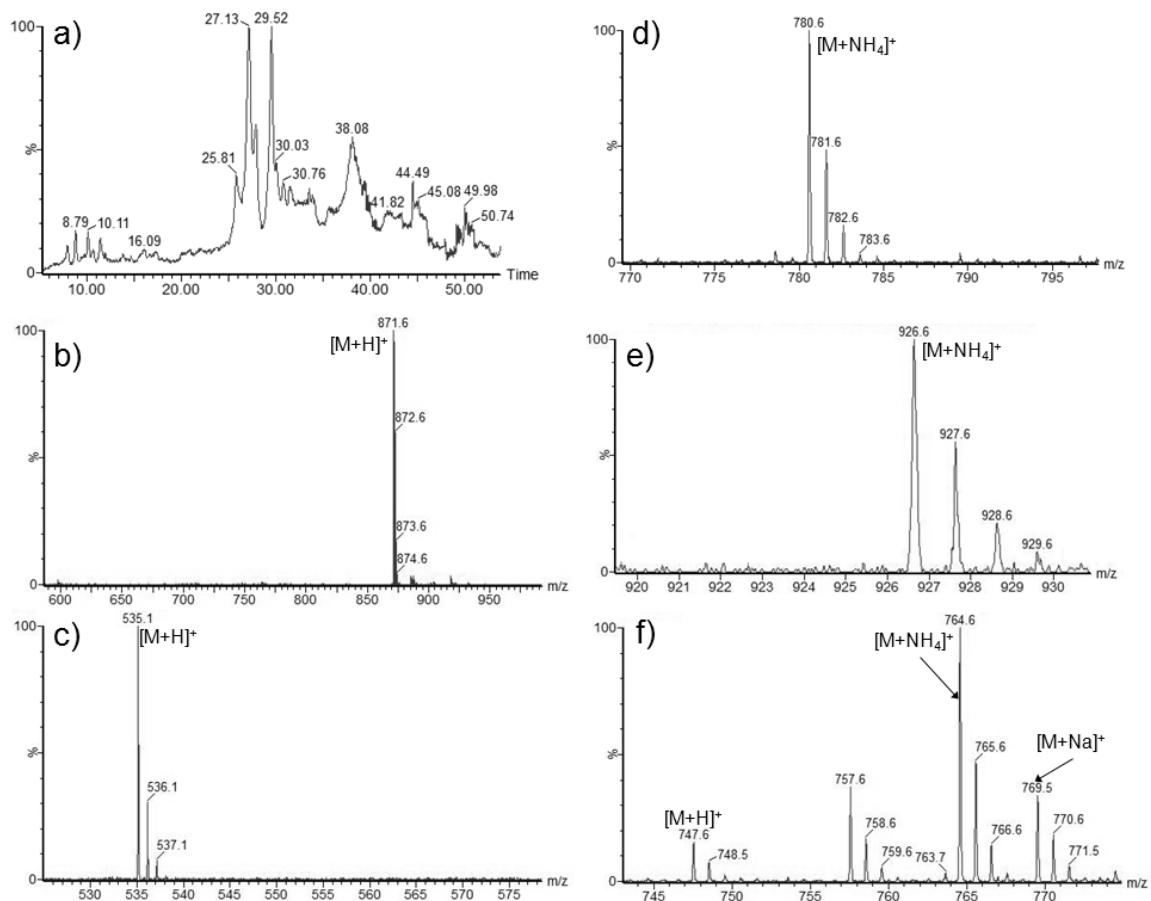


Figure S3. Total ion chromatogram (a) and mass spectrum of phenophytina a (retention time (t_r): 38.1 min) (b), pyropheophorbide a (t_r : 20.0 min) (c), OPDA/16:2 MGD or 18:2/dnOPDA MGD (t_r : 30.8 min) (d), DGDG (34:6) (t_r : 25.8 min) (e), and MGDG (18:3/16:3) (t_r : 27.9 min) (f) obtained by LC-MS analysis of the spinach extract.

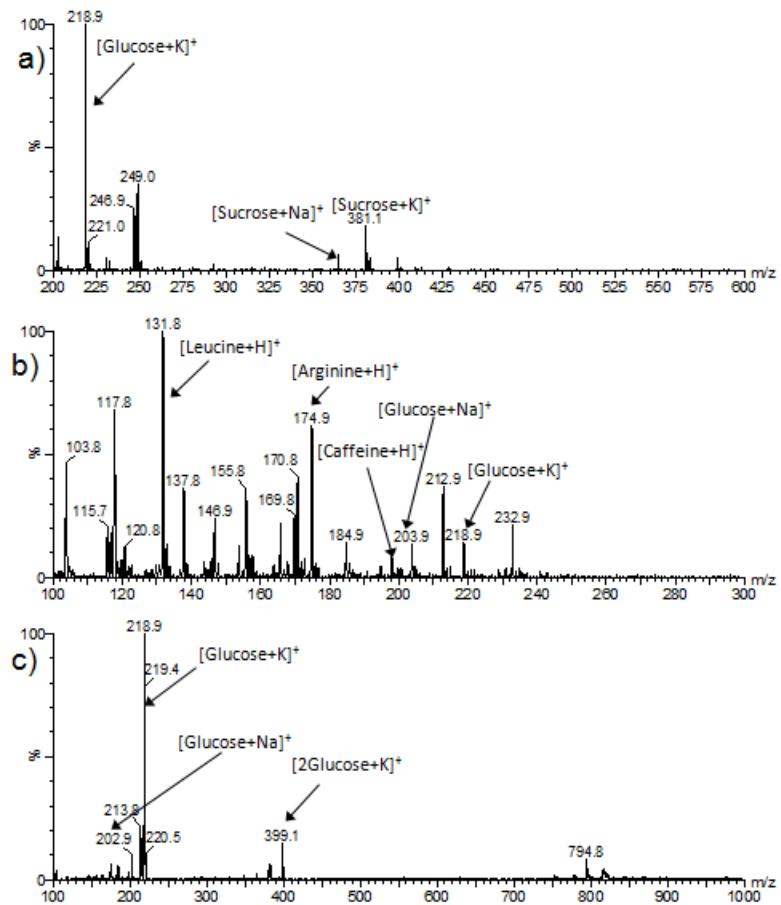


Figure S4. DI spectra of (a) chilli, (b) tea, and (c) radish root acquired on the triple-quadrupole mass spectrometer with methanol/water (1/1) as the added solvent.

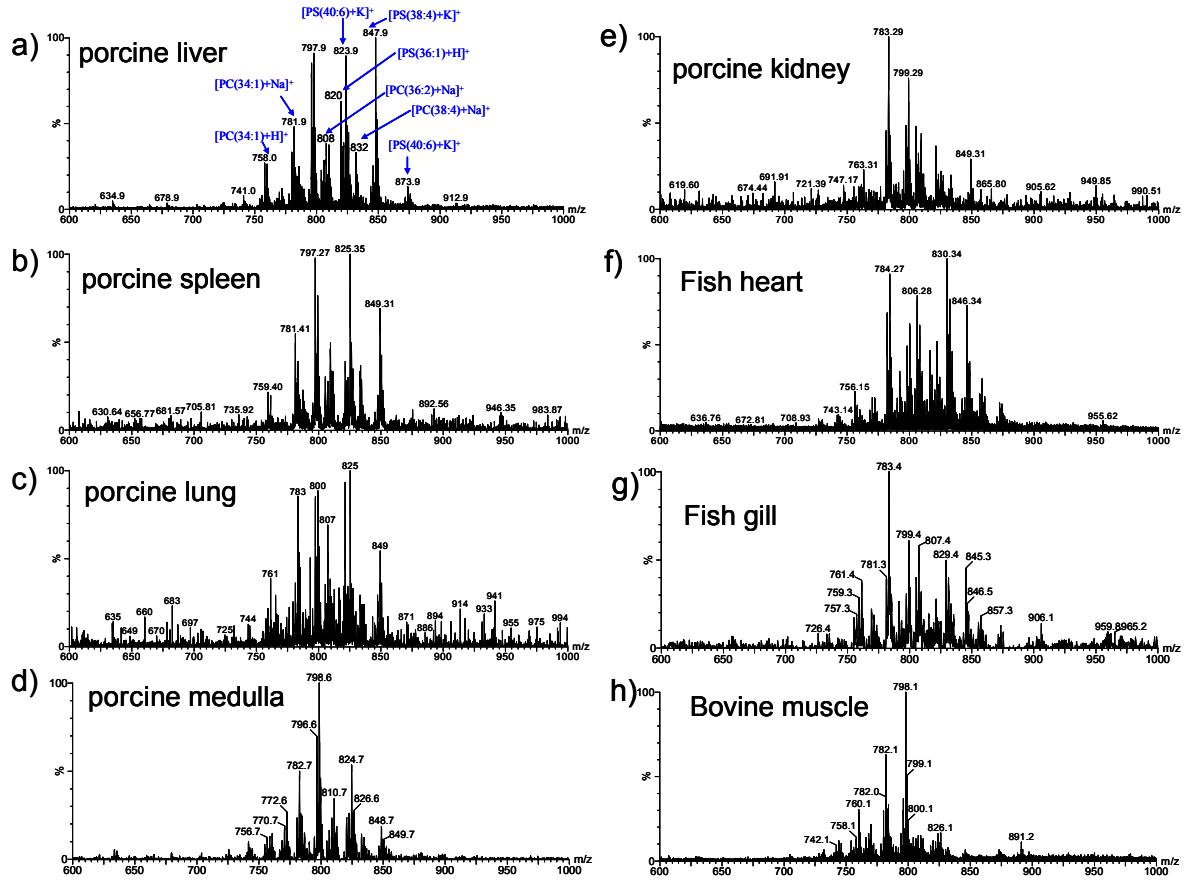


Figure S5. DI spectra of various animal tissues with methanol/water (1/1) as the added solvent. Spectra b, c and d were acquired on the triple-quadrupole mass spectrometer.