Electronic Supplementary Material (ESI) for Analytical Methods.

Supplemental Information

Supplemental Table 1. Tuning parameters for the comparing standard and coaxial EESI in the analysis of oleic acid aerosol using a Bruker HCTultra ion trap mass spectrometer. Differences between the two configurations are bolded.

Configuration	**Standard EESI**	**Coaxial EESI**
Trap Drive (V)	41.0	41.0
Octopole RF Amplitude (Vpp)	149.0	149.0
Lens 2 (V)	52.0	52.0
Capillary Exit (V)	-133.3	-133.3
Skimmer (V)	-40.5	-40.5
Lens 1 (V)	6.5	6.5
Octopole 1 (V)	-12.0	-12.0
Octopole 2 (V)	-1.7	-1.7
Dry Gas Temperature (°C)	300	300
Nebulizer Gas Pressure (psi)	10.0	10.0
Dry Gas Flow Rate (L/min)	8.0	8.0
HV Capillary (V)	**5000**	**6000**
HV End Plate Offset (V)	-500	-500
Solvent Flow Rate (µL/min)	**2.0**	**3.0**

Supplemental Table 2. Tuning parameters for the comparing standard and coaxial EESI in the analysis of aerosolized pyrolysis products of cellulose using a Bruker Esquire 3000 ion trap mass spectrometer. Differences between the two configurations are bolded.

Configuration	**Standard EESI**	**Coaxial EESI**
Trap Drive (V)	41.7	41.7
Octopole RF Amplitude (Vpp)	150.0	150.0
Lens 2 (V)	-60.0	-60.0
Capillary Exit (V)	87.4	87.4
Skimmer 1 (V)	19.4	19.4
Skimmer 2 (V)	6.0	6.0
Lens 1 (V)	-5.0	-5.0
Octopole (V)	2.4	2.4V
Dry Gas Temperature (°C)	300	300
Nebulizer Gas Pressure (psi)	10.0	10.0
Dry Gas Flow Rate (L/min)	5.0	5.0
HV Capillary (V)	**5000**	**6000**
HV End Plate Offset (V)	-500	-500
Solvent Flow Rate (µL/min)	**2.0**	**3.0**