1 Application of High Resolution Chemical Ionization Mass

2 Spectrometry (CI-ToFMS) to Study SOA Composition: Focus on

- **3 Formation of Oxygenated Species via Aqueous Phase Processing**
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9 Supplementary Material

Table S1: Voltages (V) applied on the HR-CIMS elements in positive mode for water and negative mode for acetate and iodide reagent ions. These elements are listed from left to right according their order in the mass spectrometer downstream from the sample inlet. A detailed description of the CI-ToFMS can be found in (Bertram et al., 2011)

Reagent ion	IMR	Nozzle	Q1 entrance plate	Q1 front	Q1 back	Lens skimmer	Skimmer	Q2 front	Q2 back
$(H_2O)_nH^+$	0	-3.3	0	-9.9	-2.1	0	0	-7.6	-9.5
CH ₃ C(O)O ⁻	0	3.3	6.6	17.9	-8.1	-7.2	-1.4	8.3	7.2
I(H ₂ O) _n	0	3.3	6.6	17.9	2.1	2.2	5.2	6.6	7.2

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