Figure S1. Comparison of the NR-PM$_1$ mass concentration between the SP-AMS and the interstitial AMS, before correction (red) was applied and after applying the correction (black).
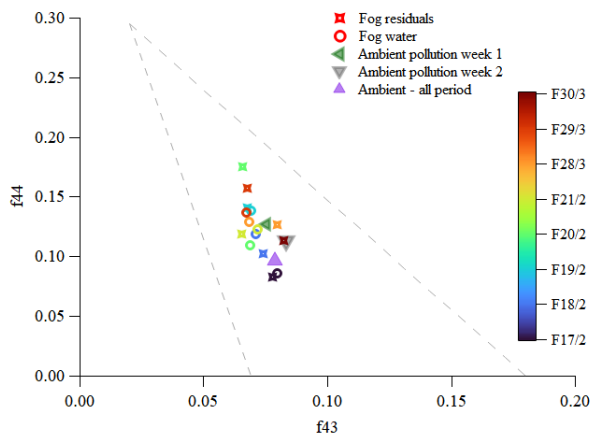
Figure S2. Fraction of m/z 44 to total OA (f44) vs. fraction of m/z 43 to total OA (f43) scatter plot averaged for each fog event (color scale). Fog residuals (diamonds), fog water (circles), and ambient aerosol (triangles). The two dotted lines indicate the space for typical oxygenated OA.
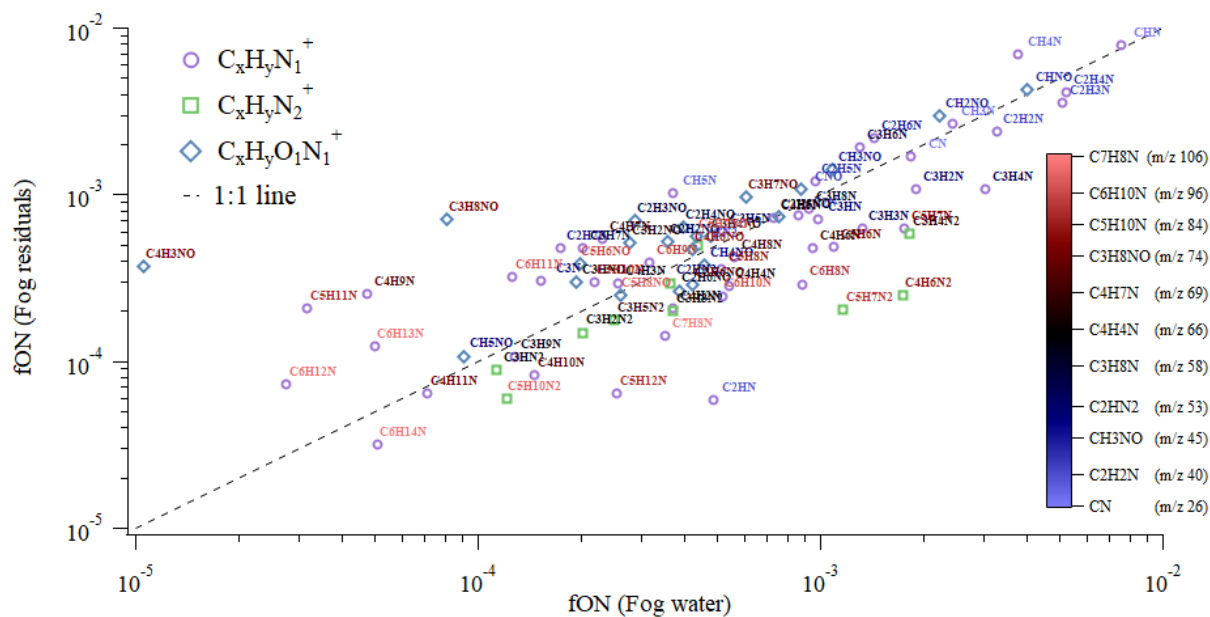
Figure S3. Scatter plot showing the organic fraction of each individual ON ion measured with the SP-AMS in the fog residuals vs. fog water. The color bar shows smaller (blue) to larger (red) ions.
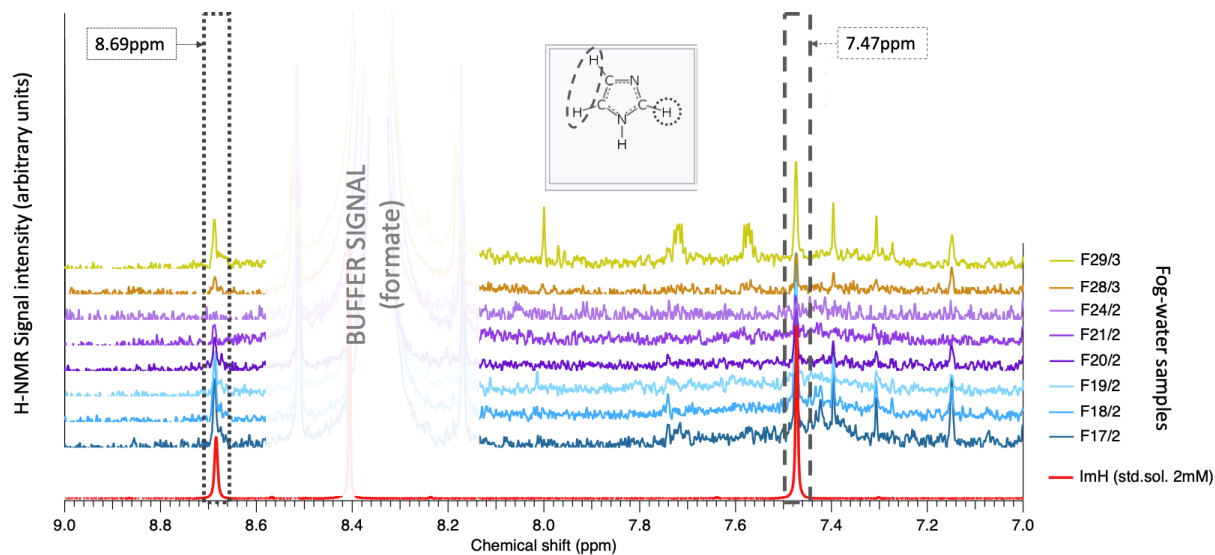
Figure S4. Aromatic region of the 1H-NMR spectra of a standard solution of 1H-Imidazole (ImH, 2mM solution, 2mL evaporated and re-dissolved in D_2O) and of the fog water samples analyzed.