Supporting Information: A drone-based sampling platform for vertically resolved chemical characterization of aerosol particles using chemical ionization mass spectrometry

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Table S1. Summary of measurements

Measurement	Height MAGL	Description	Date
Hovering	8	Comparison of drone and ground-based while drone is hovering, simultaneous stationary and drone based sensor measurements	11 May 2025
Grounded	2	Comparison of drone and ground-based while drone is grounded	10 May 2025
Vertical profile test	2–120	Vertical profiles of T, RH, wind speed and direction between 19:30 and 02:30	24 Apr 2024
Nocturnal boundary layer profile	2–120	Vertical profiles of T, RH, wind speed and direction during the nocturnal boundary layer profiling, simultaneous ground and drone based filter collection	14-15 Apr 2025

Figure S1. Drone setup used in comparison measurements. On the left: Natrium Atmospheric and climate measurement tower.

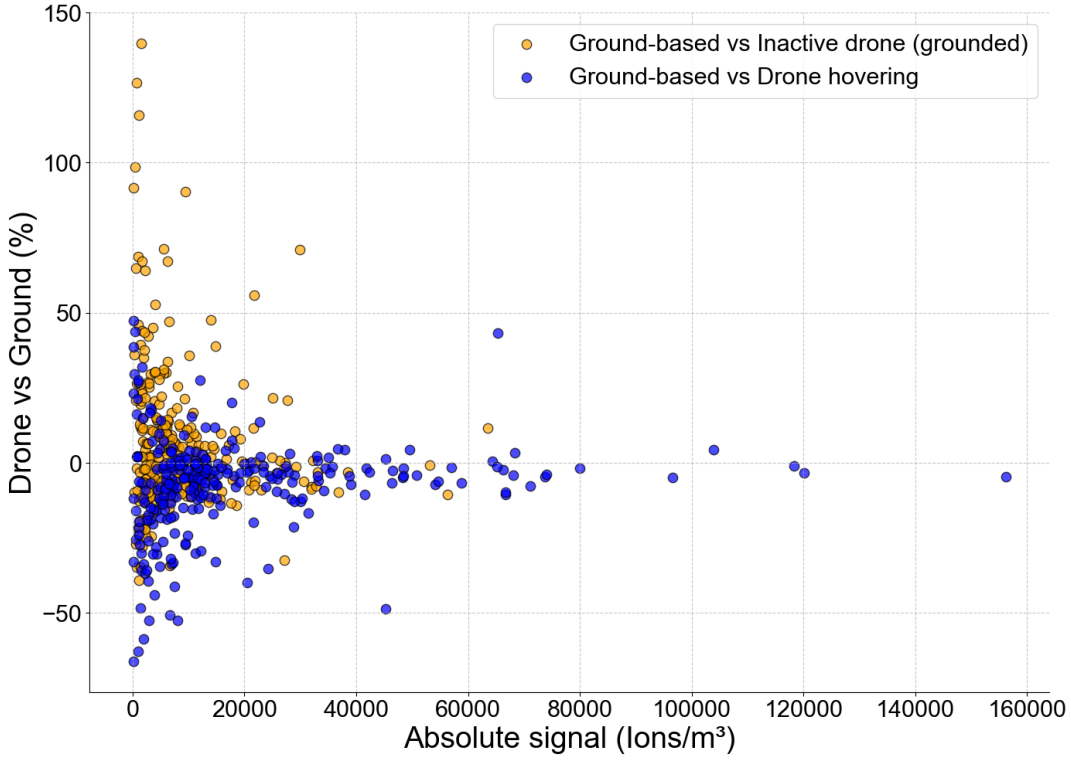

Figure S2. Distribution of relative difference between drone and ground-based measurements ((drone-ground)/ground) as a function of absolute signal of ground-based measurements.