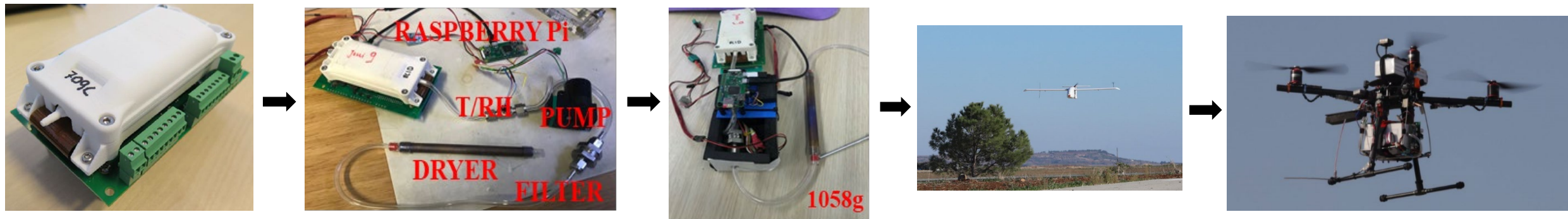
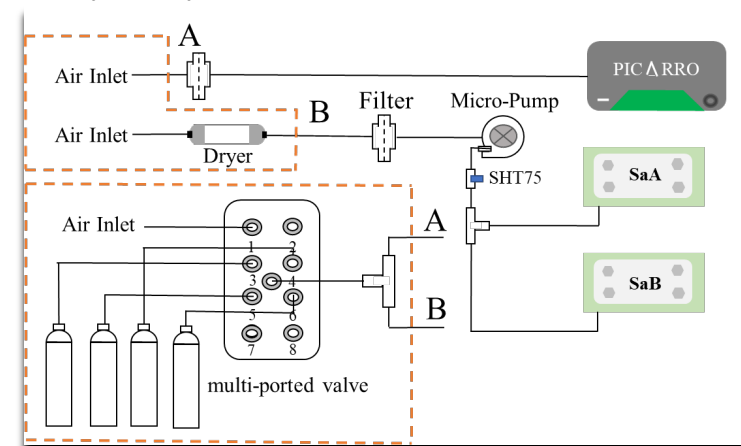
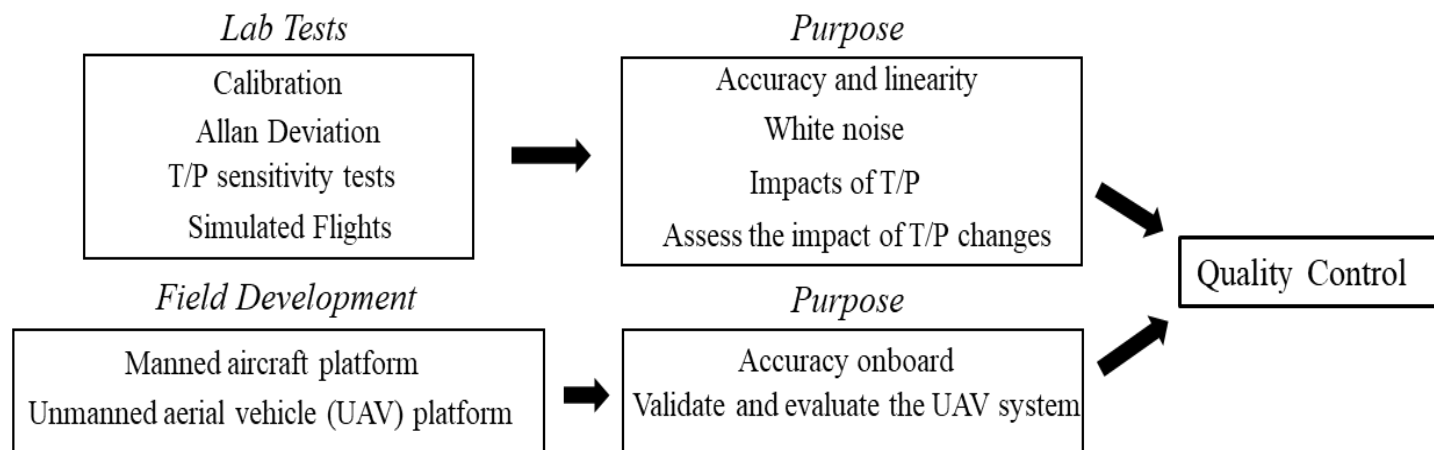


A low-cost CO₂ commercial NDIR sensor for UAV atmospheric applications

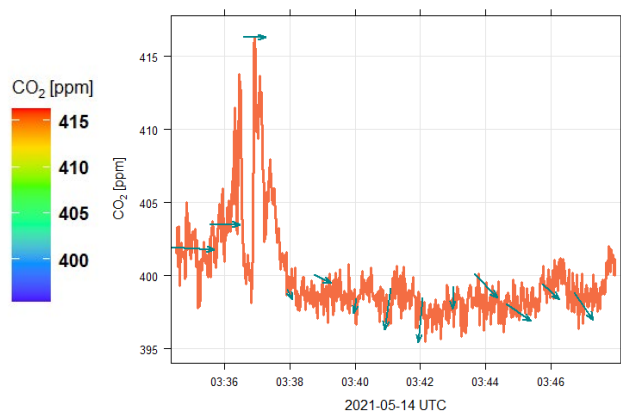
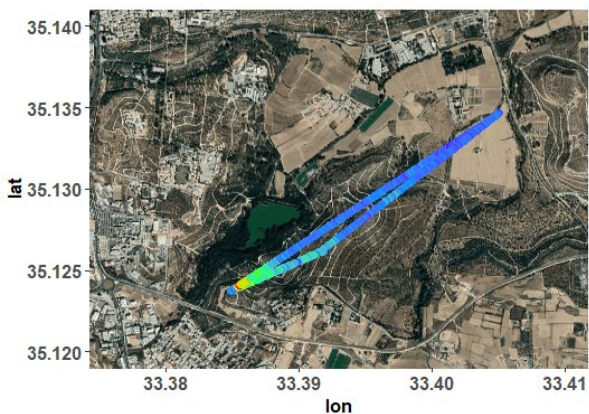


CO₂ sensor from SenseAir AB based on their High-Performance Platform (HPP) dispersive infrared (NDIR) sensors



The schematic of the system for lab tests

The establishment of the data quality control based on lab tests and field developments



On the left is the combined flight path and CO₂ mapping; on the right is the same CO₂ concentrations as a function of time and wind directions and speeds.

The UAV-CO₂ sensor system provided the potential to catch CO₂ point emissions and map dispersion plume accurately