



Discussion on further CiGas activities for VOCs

ACTRIS CiGas data QA/QC
workshop 2025

Discussion topics / perspectives

- QA/QC checks → Formation of small (3 NFs) working groups for comparable NFs (e.g. HPB, JFJ, Monte Chimone) or instruments (Medusa, PE, Markes)
 - Exchange of expertise
 - Harmonization (e.g. flagging)
 - NF data inter-comparison (e.g. HPB – JFJ within @VOC@ done together)
 - In-depth data QA
- In-person QA/QC workshop?
- Data submission: 2025 data: level 0 data → Flagged raw data including blanks and calibrations (GC: peak area; PTR-MS: cps)
level 2 data → Amount fractions with flagged data being removed
- Additional VOC methods
 - Emerging CIMS methods
 - Extend PTRMS-methods to $\text{NH}_4^+/\text{NO}^+$ -Mode
 - Basic requirements: Repeatability; Comparison to established reference methods; Secondary standard (NPL-PTRMS, NPL-NMHC; NIST-MT) + Target gas Standard

MGs/SOPs: - Measurement Guidelines for VOC Analysis by PTR-MS (31/10/2018)

- Measurement Guidelines for NMHC Analysis by TD-GC (new!)
- BVOCs, QA/QC procedures (to be developed, community contributions)