



IMEKO JOINT CONFERENCE



TC8 - TC11 - TC24

TC8 Traceability in Metrology

TC11 Measurement in Testing, Inspection and Certification

TC24 Chemical Measurements

TORINO, ITALY / SEPTEMBER 14-17, 2025

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SPECIAL SESSION

*Metrological Traceability, Method Validation,
and Measurement Uncertainty in Analytical
Sciences. Guidelines and Experiences from the
Eurachem Community*

DESCRIPTION

Ensuring the reliability and comparability of analytical results is fundamental in scientific research, industry, and regulatory applications. Metrological traceability, method validation, and measurement uncertainty form the cornerstone of quality assurance in analytical sciences, providing a structured approach to achieving accuracy, precision, and confidence in measurements. A critical aspect of this process is the consideration of sampling uncertainties, which can significantly impact the overall measurement quality. Addressing these uncertainties requires robust sampling strategies and statistical approaches to ensure representative and reproducible results. Furthermore, using reference materials plays a key role in method validation and calibration, serving as essential tools for establishing traceability and assessing measurement performance. This section intends to introduce key guidelines and insights from the Eurachem community, a leading network dedicated to promoting best practices in chemical measurement.

We would be delighted to receive your valuable contributions and share your insights and experiences. Your expertise would greatly enrich our discussions. Please submit your abstract for our Special Session if you want to contribute.

We sincerely hope you will join us in making this session a success, and we look forward to your participation!

WEBSITE

<https://imekotorino2025.org/special-session-4>

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