



IONICON Analytik GmbH
Eduard-Bodem-Gasse 3
6020 Innsbruck
Austria

mailto: info@ionicon.com
Tel: +43 512 214 800
Web: www.ionicon.com

Leading the Way in VOC Detection: IONICON Showcases High-Performance PTR-TOF Solutions

Innsbruck/Munich, February 2026 – IONICON Analytik, the global leader in real-time trace gas analysis, is proud to announce its participation in analytica 2026 (**Booth A2.413A**). As the world's premier manufacturer of Proton Transfer Reaction - Mass Spectrometry (PTR-MS) technology, IONICON will demonstrate why its instruments remain the gold standard for both academic research and high-stakes industrial monitoring.

Unrivaed Sensitivity in Real-Time

When rapid data is critical, IONICON's PTR-TOF systems continue to lead the industry by detecting Volatile Organic Compounds (VOCs) with market-leading detection limit of less than 0.1 pptv and mass resolutions of $> m/\Delta m$ 20000. Unlike traditional methods, these instruments provide high-performance analysis in real time without the need for time-consuming sample preparation.

This combination of speed and sensitivity has made IONICON a trusted partner across a vast array of fields, including environmental and climate research, engine emissions testing, and NASA airborne science missions. Whether it is analyzing food and flavor profiles or conducting medical breath analysis, IONICON provides the precision required for the most demanding scientific inquiries.

From Laboratory Excellence to Industrial Automation

At analytica 2026, IONICON will highlight its growing presence in the industrial sector with a suite of automated solutions. IONICON's real-time trace gas analyzers for the semiconductor industry play a key role in AMC contamination management in cleanrooms, FOUPs, and in Advanced Packaging, a key technology for AI-chip production.

Joining the lineup is also the new VOCentinel, a compact and robust PTR-TOF mass spectrometer designed for continuous, real-time quantification with minimal user interaction. The VOCentinel is engineered for long-term air quality and industrial monitoring, offering a simple interface to track various chemical classes – including aromatics, amines,



and siloxanes – while maintaining a small footprint for easy integration into mobile platforms or 19-inch racks.

**Advancing Analytical Precision:
Highest Mass Resolution with the FUSION PTR-TOF 20**

IONICON is pleased to announce its latest breakthroughs in high-performance trace gas analysis. Leading the charge in mass resolution is the FUSION PTR-TOF 20, an ultimate-performance analyzer featuring the next-generation ioniTOF and an ultra-clean FUSION reaction chamber. It offers a market-leading detection limit below 1 pptv and a mass resolution of up to 25,000 $m/\Delta m$, providing unmatched precision for complex mixtures.

Expanding Analytical Versatility: Isomer Separation with PTR-SLIM-TOF

While maintaining its core leadership in PTR-TOF technology, IONICON has integrated Structures for Lossless Ion Manipulation (SLIM) technology through a sublicense agreement with MOBILion Systems, Inc. to complement raw analytical power with physical separation capabilities. The resulting PTR-SLIM-TOF is set to revolutionize the analysis of complex mixtures by adding high-resolution ion mobility to IONICON's trace-level VOC platforms. This allows researchers to physically separate isomers in milliseconds.

Visit IONICON at Booth A2.413A

Meet our experts at analytica 2026 and see our PTR-TOF in action. For more information, please visit www.ionicon.com.

About IONICON Analytik

Based in Innsbruck, Austria, IONICON is the world's leading manufacturer of real-time PTR-MS trace gas analyzers and high-performance modular Time-of-Flight mass spectrometers.