



Vocus Scout

High performance monitoring
of trace VOCs in complex environments



Features

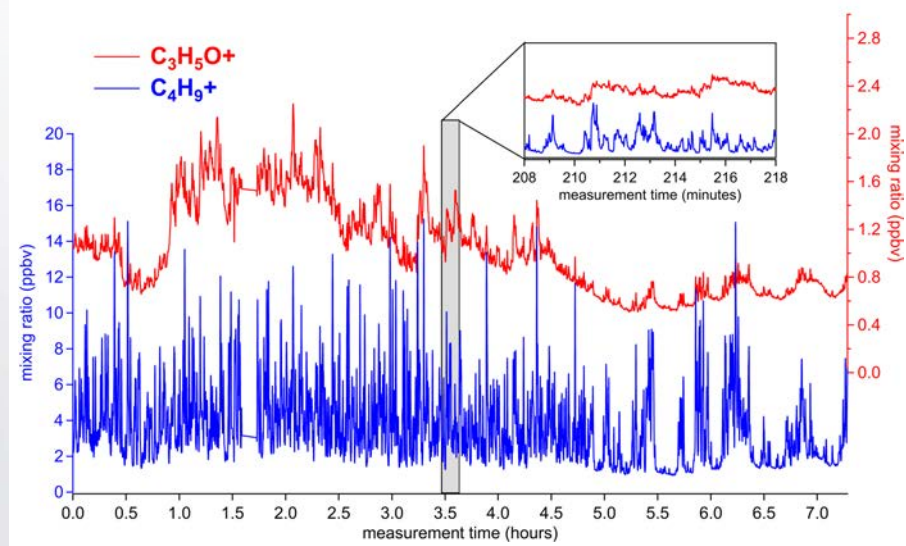
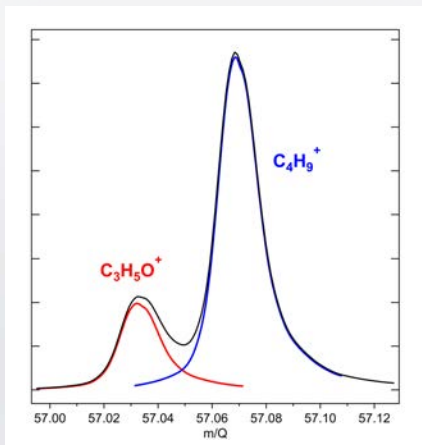
- Exceptional sensitivity, fast time response, and low detection limits
- High mass resolution for accurate VOC identification
- Target a broad range of compounds, including oxygen, nitrogen, halogen, and sulfur containing species
- Robust architecture for mobile measurements at speeds up to 100 km/h

Applications

- Air toxic monitoring
- Mobile monitoring for source emissions
- Industrial park air monitoring
- Fenceline monitoring
- Fast screening of material emissions
- QA/QC on production line

Vocus PTR-TOF

Chemically detailed measurement of dynamic processes with high resolution and fast time response



Excerpt of measured mass spectrum at nominal mass-to-charge ratio 57. Two isobaric ions ($C_3H_5O^+$ and $C_4H_9^+$) are fully resolved at 50% valley.

Time series of the two isobaric ions shown in the mass spectrum at left ($C_3H_5O^+$ and $C_4H_9^+$). Ambient indoor air inside an industrial facility was measured at 1-Hz sampling frequency. The two VOC ions display clearly different dynamic behavior, indicating that they are created and affected by different processes. The high frequency changes in $C_4H_9^+$ are not noise, but actual variability on a 10-second time scale. The inset panel includes an expanded view of ten minutes of measurement, to show this fast variability.

Specifications

Sensitivity (cps/ppb, Xylene)	> 4000
LOD (1-min, Xylene)	< 5 ppt, 1 mn
Resolving Power	3500 at specified sensitivity
Size	380 x 500 x 650 mm
Power (Max / Typical)	1100 W / 600 W

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