



Ultra-Fast GC for Vocus PTR-TOF

Separation of isomeric species and enhanced chemical specificity for complex mixtures



Features

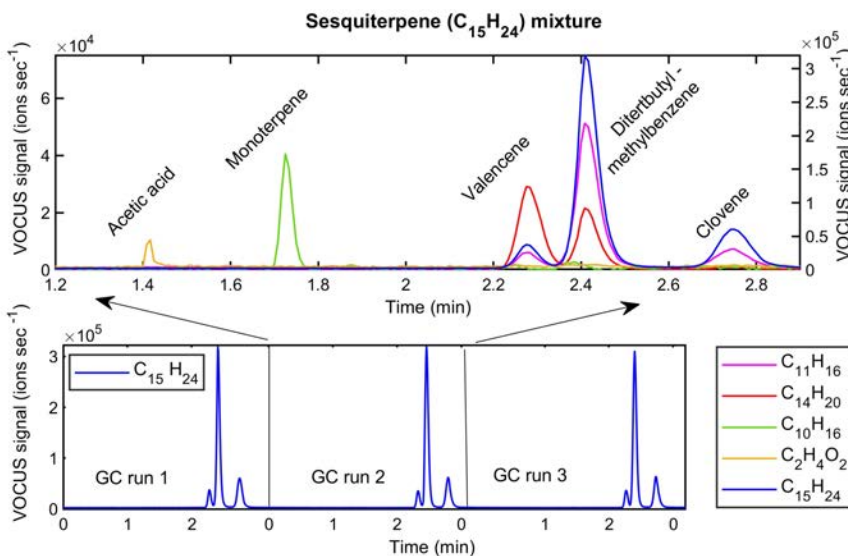
- Compact design with plug-and-play coupling to Vocus PTR-TOF
- Detect trace species with thermal desorption preconcentrator trap
- Results in as fast as 2 min
- Fast switching between continuous measurements and GC separations
- Integrated software control with customizable methods and workflows
- Large variety of column and traps targeting specific application

Applications

- Air monitoring
- Food, flavor, and fragrances
- Beverage and alcohol
- Material emissions
- Forensics
- Petrochemical analysis

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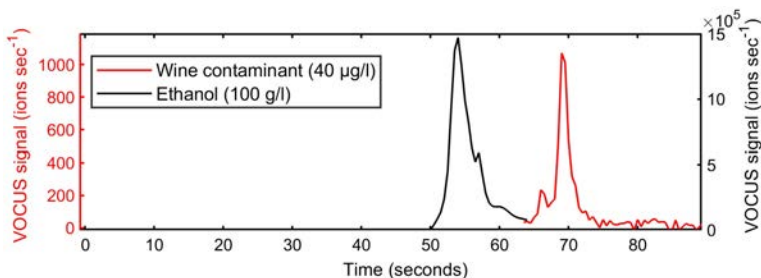
Vocus PTR-TOF



Rapid analysis of isomers

Fast GC coupled with Vocus PTR-TOF shows excellent separation of monoterpenes and sesquiterpenes in under 3 min.

Identification of trace contaminants in complex mixtures



Optimized chromatographic peak separation with the Vocus GC-PTR-TOF enables robust quantification in complex mixtures. Here, a wine sample is rapidly screened for the presence of unwanted contaminants.

Specifications

Column Temperature	Max: 360 °C Max Heating Rate: 2400 °C/min (40°C/s) Max Cooling Rate: 1200 °C/min (20°C/s)
Trap Low Temperature	-5 to 100 °C
Trap Desorption Temperature	50 to 335 °C
Trap Heating Rate	60 °C/s
Separation Time	1 to 60 min
Accuracy (Retention Times)	0.03% RSD
Carrier Gas	He, N ₂ , Ar, H ₂
Operating Conditions	Temperature 18-30 °C; Humidity 5-80 %
Size	45 x 18 x 55 cm; 25 kg

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