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 (C₃H₅O⁺ and C₄H₅⁺) are fully resolved at 50% valley.

Time series of the two isobaric ions shown in the mass spectrum at left (C₃H₅O⁺ and C₄H₅⁺). 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 C₄H₅⁺ 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Sensitivity (cps/ppb, Xylene)</td>
<td>&gt; 4000</td>
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<tr>
<td>LOD (1-min, Xylene)</td>
<td>&lt; 5 ppt, 1 mn</td>
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<tr>
<td>Resolving Power</td>
<td>3500 at specified sensitivity</td>
</tr>
<tr>
<td>Size</td>
<td>380 x 500 x 650 mm</td>
</tr>
<tr>
<td>Power (Max / Typical)</td>
<td>1100 W / 600 W</td>
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</tbody>
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