Liquid Calibration System (LCS)
Direct calibration of instrument response using liquid standards

Features
- Compatible with single standards or mixtures
- Precise liquid flow control
- Wide concentration range, pptv - ppmv
- Response in seconds
- Volatility range up to C12 hydrocarbons
- Easy to exchange liquid reservoir
- Cost effective compared to gas standards
- Dedicated control in Vocus software

Uses
- Determination of instrument sensitivity and detection limits
- Interpretation of gas-phase data
- Direct liquid analysis
- Trace contaminants in water samples

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Calibration with a liquid standard
Calibrations are obtained by adjusting the flow rate of the liquid standard during continuous data acquisition with the Vocus PTR-TOF.

Vocus Liquid Calibration System

Specifications

- Liquid Flow Rate: 0 to 50 µL/min
- Dilution Gas Flow Rate: 0 to 2 L/min
- Flow Precision: 5%
- Evaporation Temperature: 100 to 200°C
- Transfer Line Temperature: Ambient to 250°C
- Size: 25 x 15 x 10 cm, 4 kg

Vocus sensitivity for many compounds can be estimated using published reaction rate coefficients.

The LCS can be used to quickly check the accuracy of such predicted values. Here, it was shown that the estimated sensitivity for D6 phenol was within 10% of the measured.