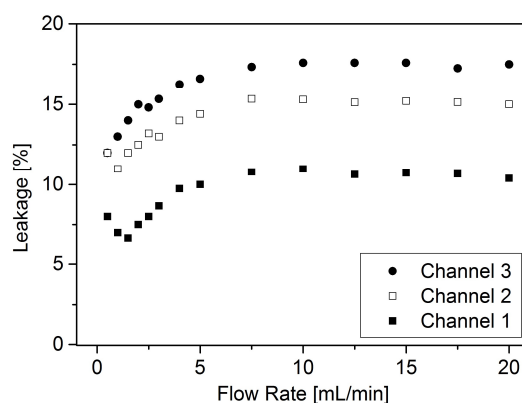


# Micro Milled Microfluidic Photoionization Detector for Volatile Organic Compounds

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Leakage for experiments with channel 1, channel 2 and channel 3 using nitrogen at different flow rates:



**Figure S1.** Leakage for three channel designs. Uncertainty varies from 1% at high flow rates to 5% at low flow-rates.

$$\text{Leakage [\%]} = \frac{(\text{Inlet flow rate}) - (\text{outlet flow rate})}{(\text{Inlet flow rate})} \times 100$$