



**Title:** Advances in micro gas chromatography (GC) - applying temperature programming in a micro GC to achieve fast, accurate, and on-site analysis of fixed gases and light hydrocarbons

**Abstract Body:** For many years, micro gas chromatography (GC) has been a proven and widely accepted technique for analyzing fixed gases and light hydrocarbons in the natural gas, petrochemical, and alternate energy industries. Due to additional application requirements and the demand for simplicity, it is now time to bring the technology to a new level. Temperature programming on capillary columns is introduced in the new Micro GC Fusion to expand application coverage and increase sample throughput compared to isothermal operation. Rapid temperature ramping also improves late eluting peak sensitivity and column cleaning to minimize contamination. Currently, Micro GC users require a PC and proprietary chromatography software, which introduce operation complication for some users. Micro GC Fusion incorporates an LED front panel display and web-based chromatography software allowing users to operate the instrument on a stand alone basis, without the concern of operating system compatibility and software licensing. This presentation will discuss the instrumentation changes introduced in the Micro GC Fusion to address application and operation needs for both seasoned and new GC users.

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