

Application Datasheet

Micro GC Fusion® Analysis of Pipeline Natural Gas

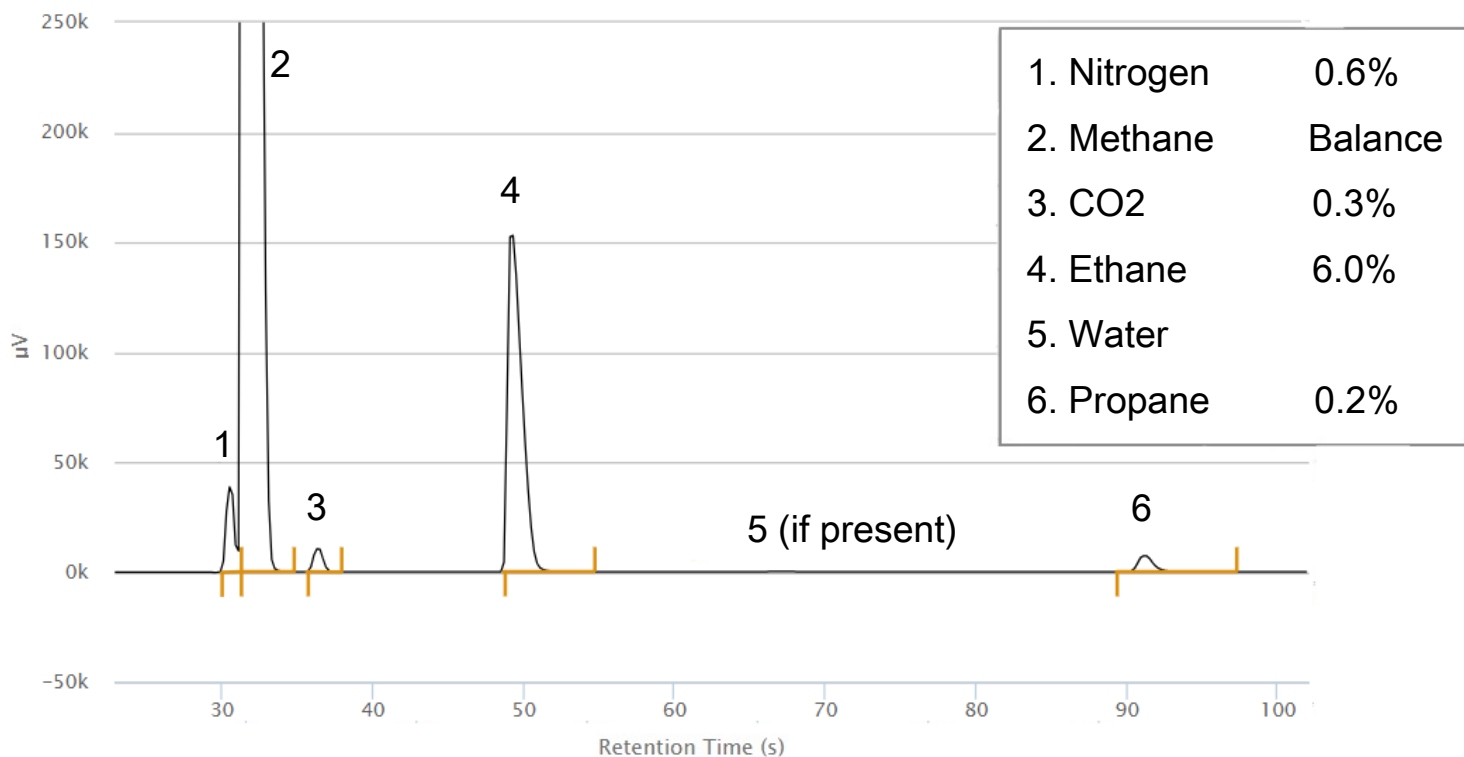
Starting Parameters

These parameters can be used as a starting point for creating a method and can be adjusted to ensure all compounds are fully separated. Exact retention times will vary from GC to GC, but the compound order remains the same.

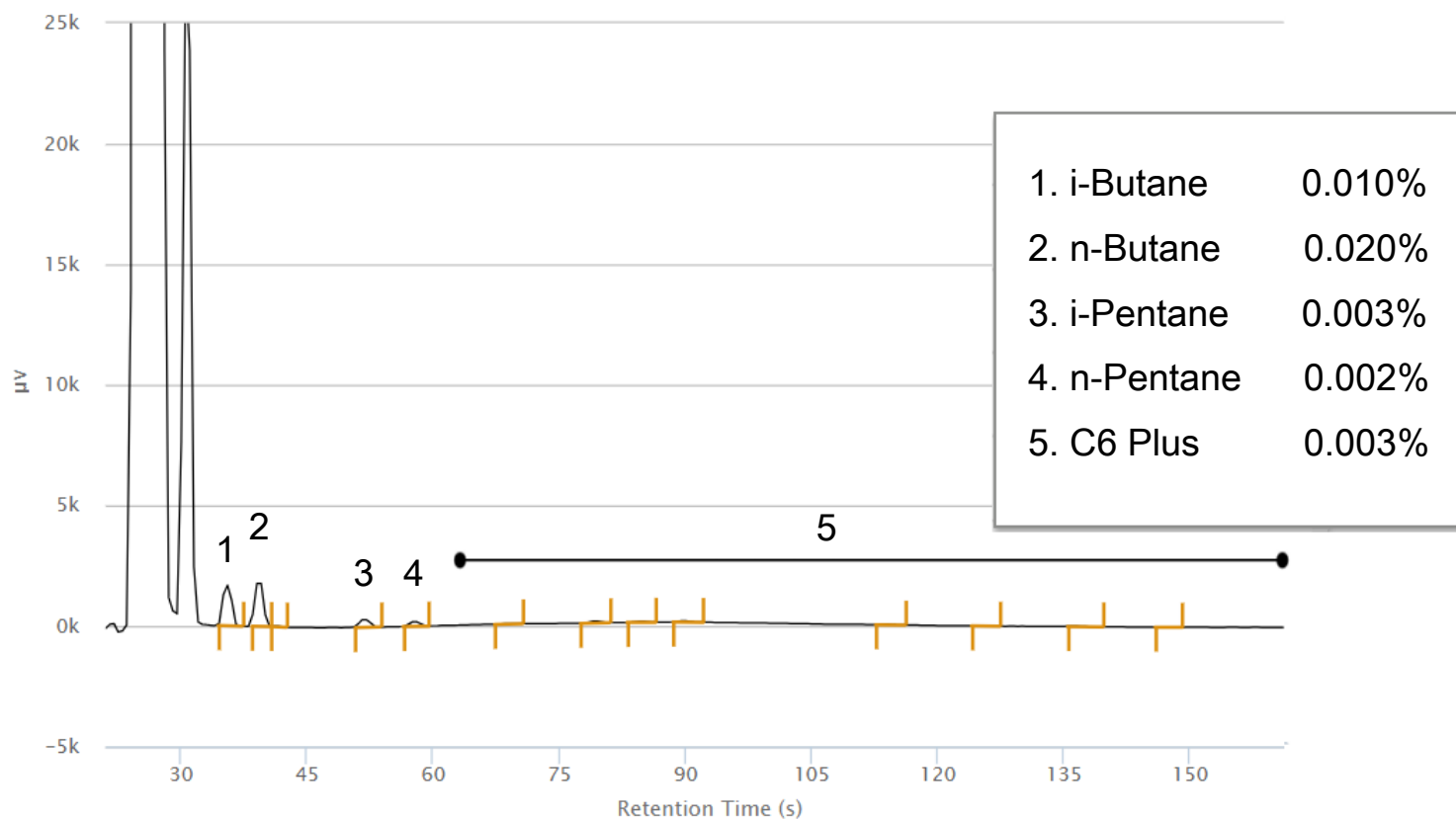
Method Parameter	Module A - 12m RT-Q-Bond, Fixed Volume Injector (GCMR-RR2)	Module B - 10m Rxi-1ms, Fixed Volume Injector (GCMR-R03)
Inject time	35 ms	35 ms
Injector temperature	90°C	90°C
Column pressure	21 psi, 99.999% helium	22 psi, 99.999% helium
Data rate	100 Hz	50 Hz
Temperature ramp	65°C (42 s) --> 210°C (30 s), 1.2°C/s	65°C (60 s) --> 150°C/s (25 s), 0.8°C/s
Sample pump time	20 s	20 s
Sample inlet temperature	90°C	90°C

Chromatograms

Module A Chromatogram – 12 m RT-Q-Bond, Fixed Volume Injector



Module B Chromatogram - 10 m Rxi-1ms, Fixed Volume Injector



Recommended Accessories

- Pressure reducer and gas-liquid separator (952-033-G1) for samples with moisture and pressures up to 500 psi