

# Micro GC Fusion® Analysis of Refinery Gas

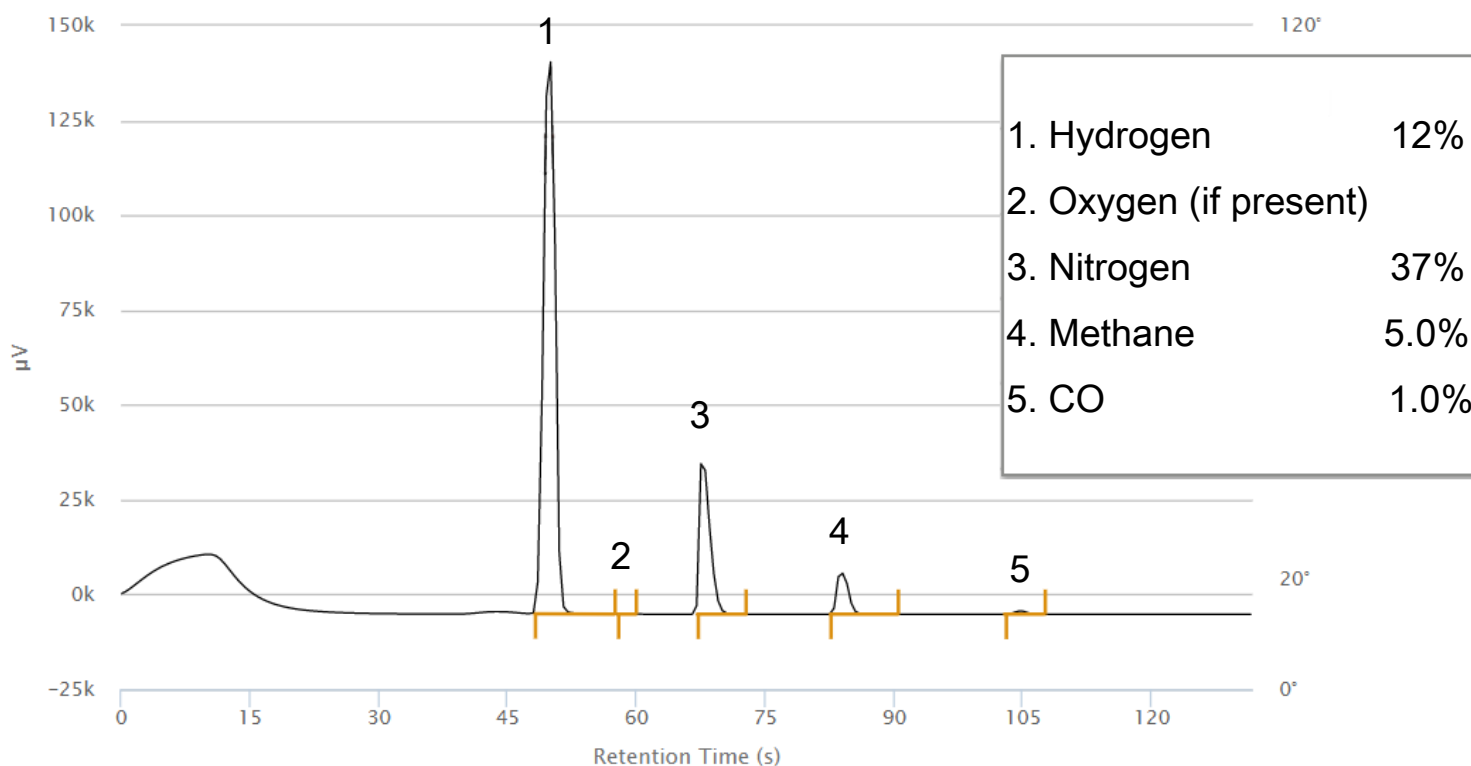
## Starting Parameters

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.

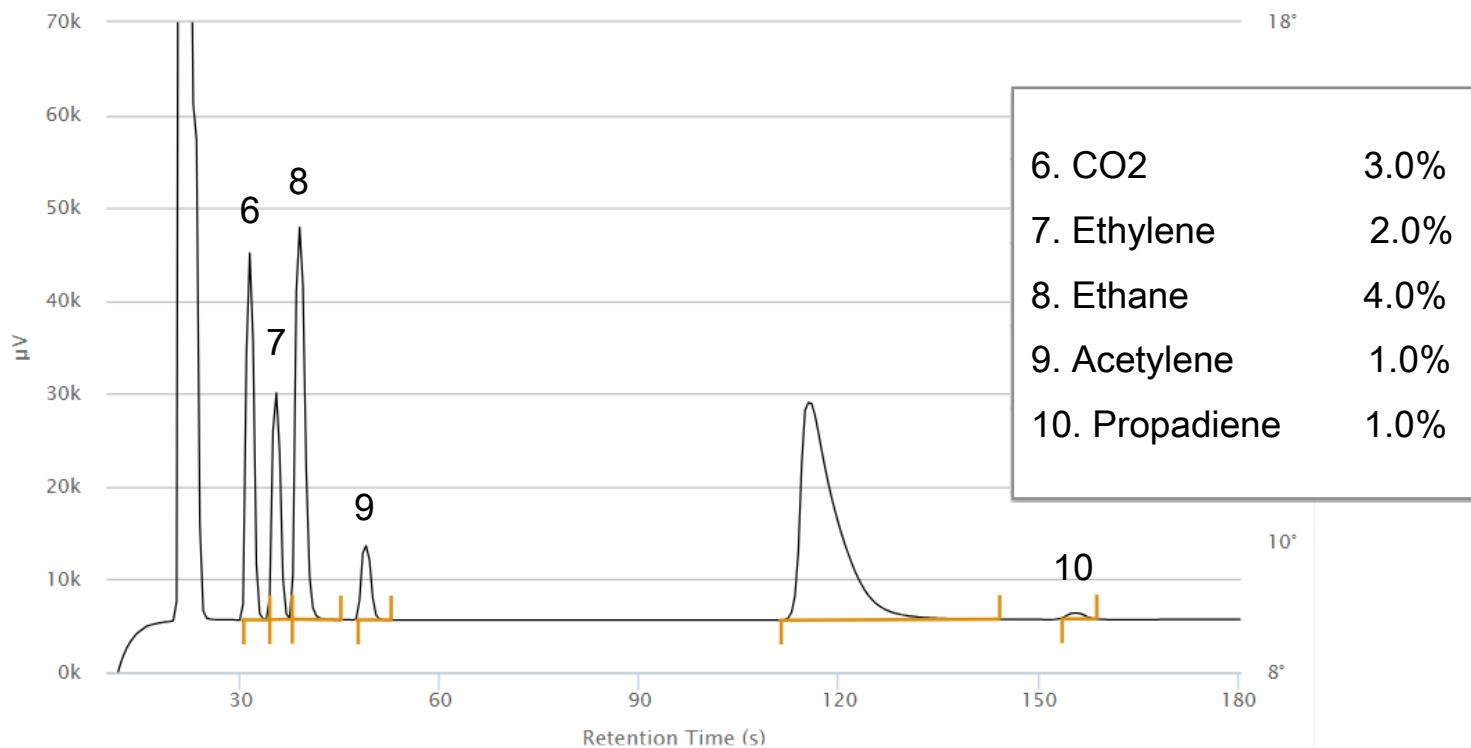
Method Parameter	Module A – 10m RT-Molsieve Backflush Injector (GCMR-W02)	Module B – 8m RT-U-Bond Backflush Injector (GCMR-W81)	Module C – 10m RT-Alumina Backflush Injector (GCMR-VC4)	Module D – 10m Rxi-1ms Fixed Volume Injector (GCMR-R03)
Inject Time	0 ms	0 ms	0 ms	30 ms
Backflush Time	10 s	9 s	7 s	N/A
Injector Temperature	90°C	90°C	90°C	90°C
Column Pressure	30 psi, 99.999% Argon	20 psi, 99.999% Helium	25 psi, 99.999% Helium	23 psi, 99.999% Helium
Data Rate	50 Hz	50 Hz	100 Hz	50 Hz
Column Temperature	100°C (220 s)	70°C (220 s)	130°C (220 s)	60°C (220 s)
Sample Pump Time	15 s	15 s	15 s	15 s
Sample Inlet Temp	90°C	90°C	90°C	90°C

## Chromatograms

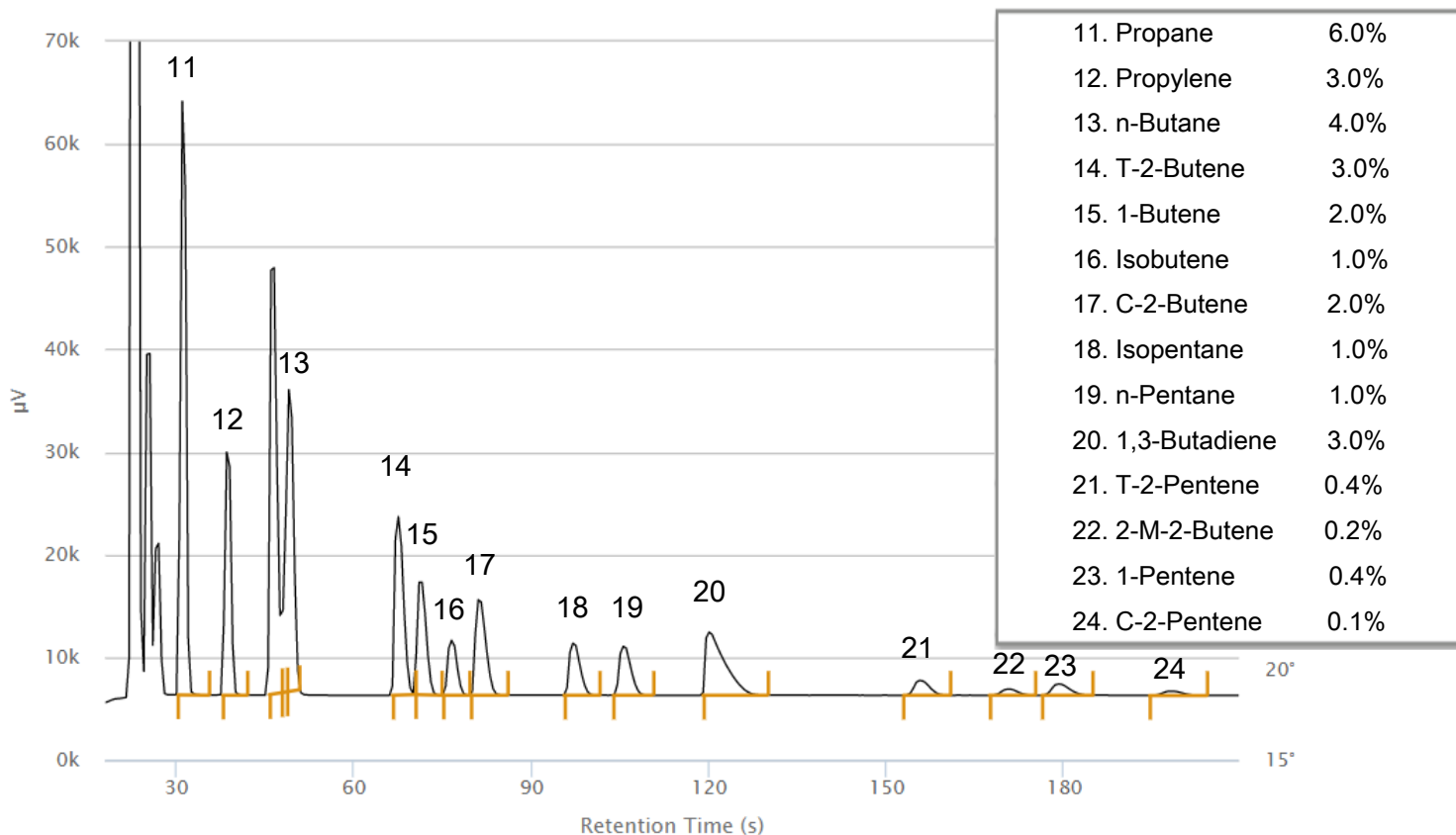
Module A Chromatogram – 10m RT-Molsieve, Backflush Injector



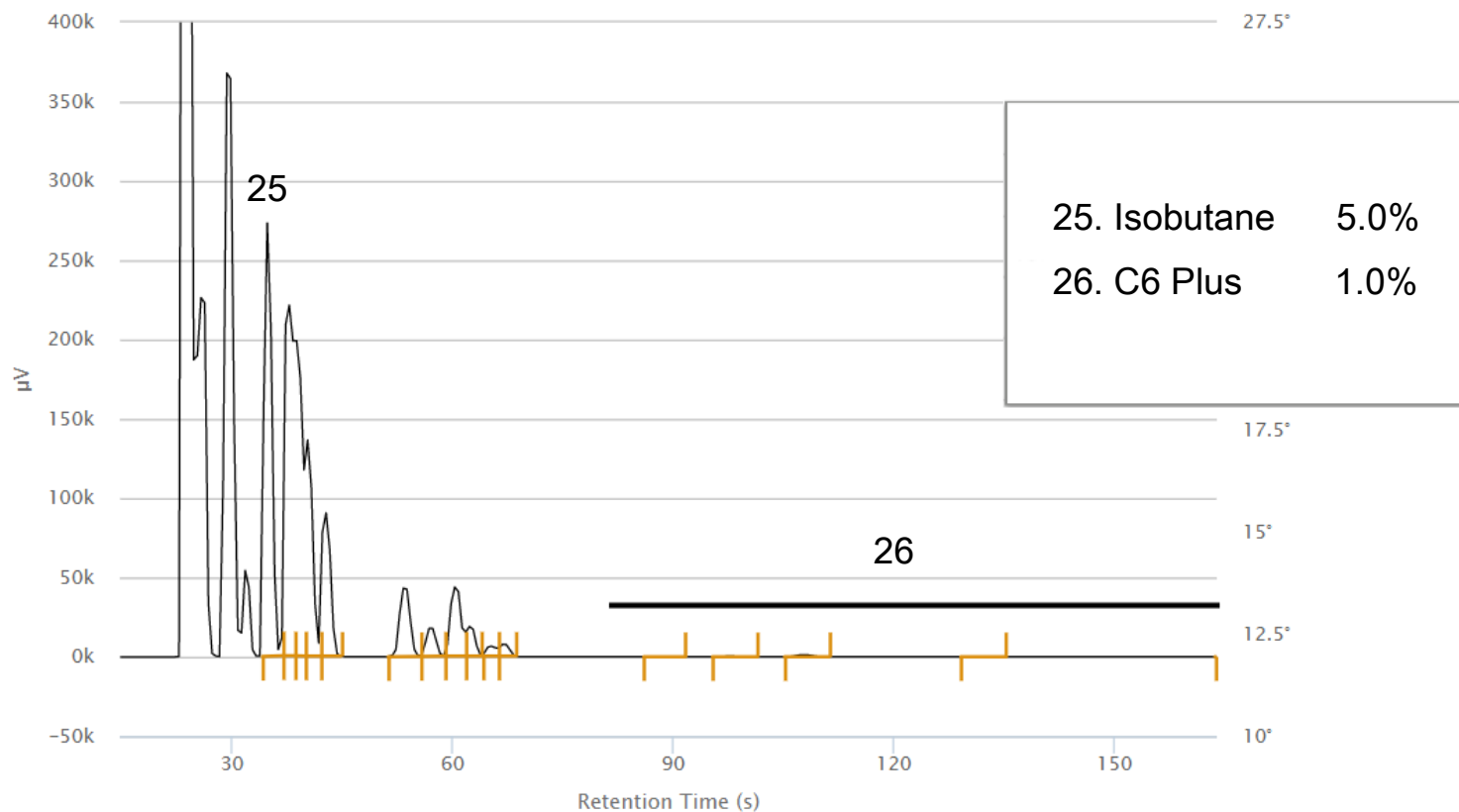
Module B Chromatogram - 8m RT-U-Bond, Backflush Injector



Module C Chromatogram - 10m RT-Alumina, Backflush Injector



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



## Recommended Accessories

- Gas-liquid separator (952-029-G1) for samples with moisture
- Pressure reducer and gas-liquid separator (952-033-G1) for samples with moisture and pressures up to 500 psi