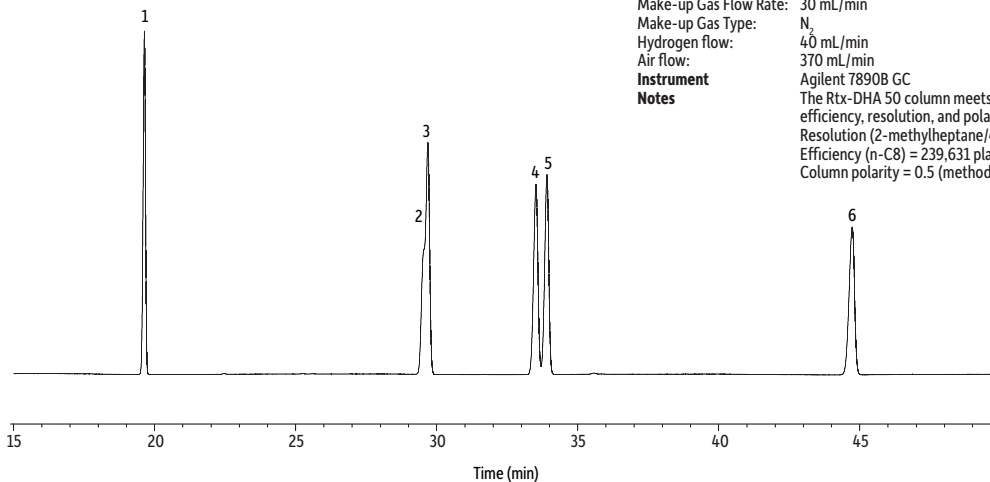


ASTM D5134 Rtx-DHA 50 Column Evaluation

Peaks	Conc. (wt.%)
1. <i>n</i> -Heptane	1.0
2. Toluene	0.5
3. 2,3,3-Trimethylpentane	0.8
4. 2-Methylheptane	1.0
5. 4-Methylheptane	1.0
6. <i>n</i> -Octane	1.0

Column Rtx-DHA-50, 50 m, 0.20 mm ID, 0.50 μ m (cat.# 10147)
Sample D5134 column evaluation mixture (DCG Partnership I, LTD)
Diluent: 2-Methylpentane
Injection 0.2 μ L split (split ratio 200:1)
Liner: Precision 4.0 mm ID Precision liner w/wool (cat.# 23305)
Inj. Temp.: 200 °C
Oven
Oven Temp.: 35 °C (hold 60 min)
Carrier Gas He, constant pressure
Linear Velocity: 23 cm/sec
Detector FID @ 250 °C
Make-up Gas Flow Rate: 30 mL/min
Make-up Gas Type: N₂
Hydrogen flow: 40 mL/min
Air flow: 370 mL/min
Instrument Agilent 7890B GC
Notes
The Rtx-DHA 50 column meets all the ASTM D5134-13 method requirements for efficiency, resolution, and polarity.
Resolution (2-methylheptane/4-methylheptane) = 1.40 (method requirement ≥ 1.35)
Efficiency (n-C8) = 239,631 plates (method specification $\geq 225,000$)
Column polarity = 0.5 (method 0.4 \pm 0.4)



GC_PC1318