Fast Fingerprint Analysis of Perfume using Agilent J&W FactorFour VF-WAXms High Efficiency GC Columns

Application Note

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**Introduction**
The VF-WAXms column shows excellent selectivity for the many volatiles present in perfumes. Use of the 0.15 mm column allows analysis time to be reduced significantly without compromising on the resolution of the separation, as shown on Figure 1 on next page.
Conditions

Technique: GC-FID
Column: VF-WAXms
(A) 30 m x 0.25 mm df = 0.25 µm
   (part number CP9205)
(B) 15 m x 0.15 mm df = 0.15 mm
   (part number CP9201)

Temperature: 75 °C to 260 °C with 16 °C/min
Carrier Gas: Helium, 2.0 bar
Injector: 250 °C, split 60 mL/min
Detector: 275 °C, FID
Sample Size: 1.0 µL
Sample: Perfume, 2 % (acetone)

Figure 1. Fast fingerprint analysis of perfume using 0.15 mm VF-WAXms GC column (B) compared to the equivalent 0.25 mm VF-WAXms GC column (A)