Aromatic hydrocarbons

Analysis of impurities in p-, m- and o-xylenes

Application Note

Materials Testing & Research

Authors

Agilent Technologies, Inc.

Introduction

Gas chromatography with an Agilent CP-Xylenes column identifies four impurities in p-, m-, and o-xylene in 15 minutes.

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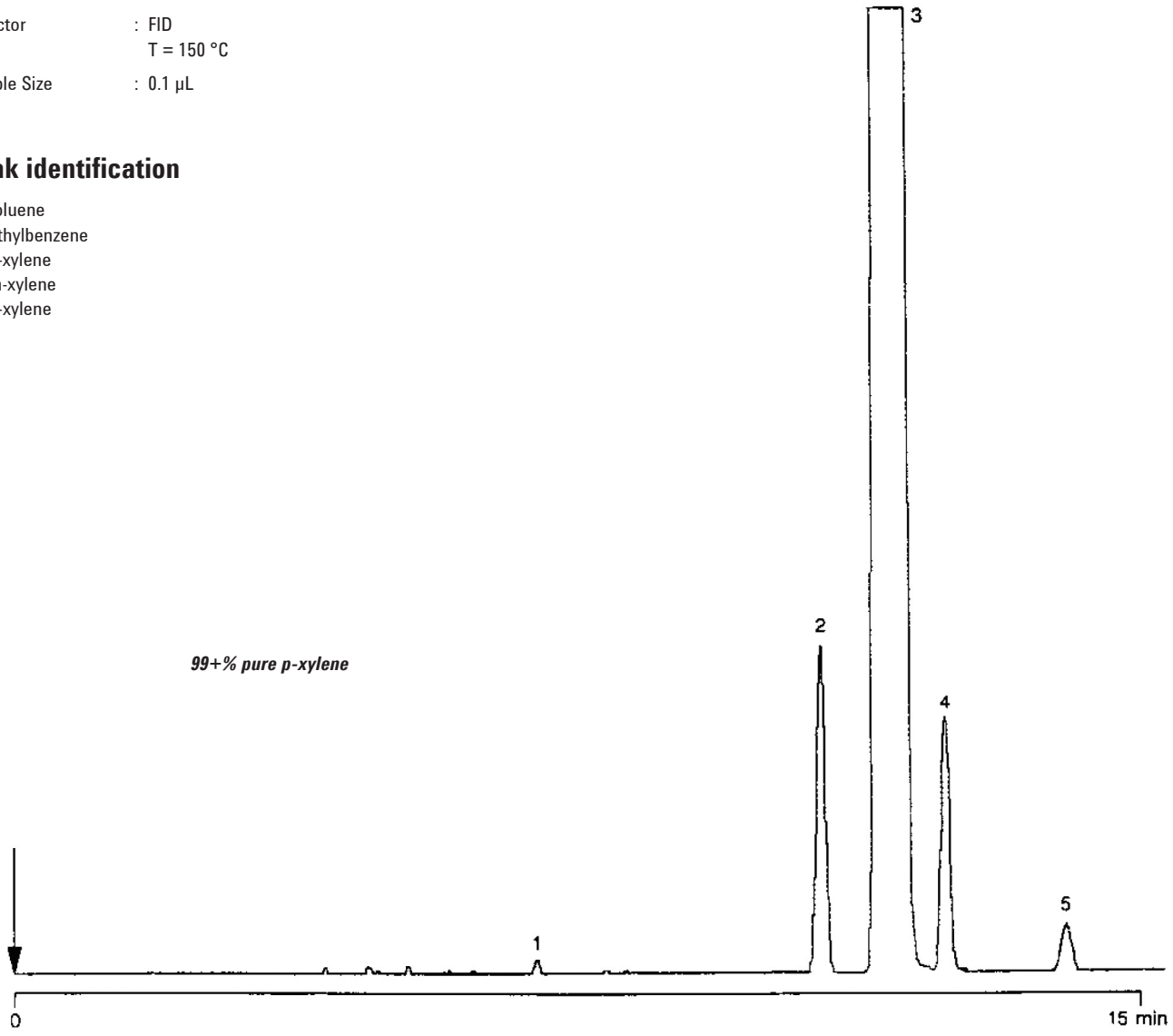
Conditions

Technique	: GC-capillary
Column	: Agilent CP-Xylenes, 0.32 mm x 50 m fused silica PLOT CP-Xylenes (Part no. CP7426)
Temperature	: 35 °C
Carrier Gas	: He, 65 kPa (0.65 bar, 9.3 psi)
Injector	: Splitter, 60 mL/min T = 150 °C
Detector	: FID T = 150 °C
Sample Size	: 0.1 µL

Peak identification

1. toluene
2. ethylbenzene
3. p-xylene
4. m-xylene
5. o-xylene



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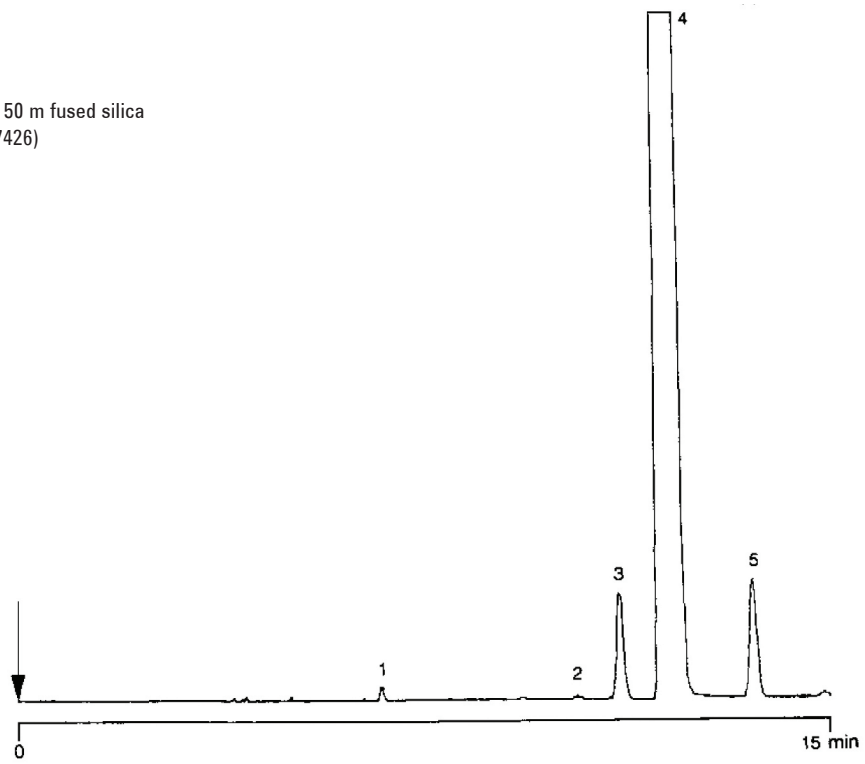
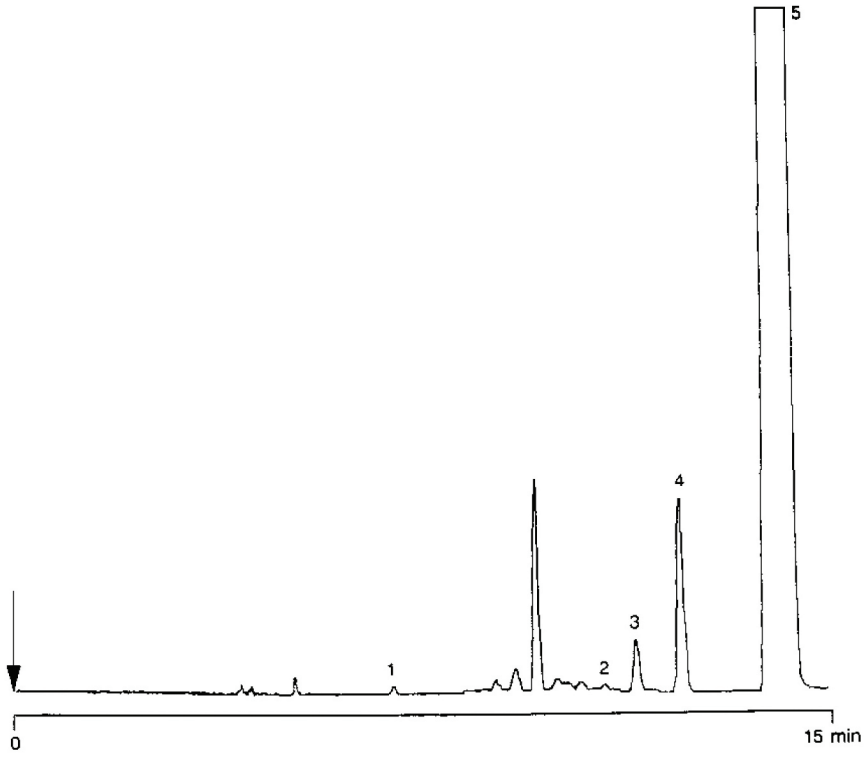
99+% pure m-xylene



99+% pure o-xylene



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