

CoreFocus
Report
No.358

GC

FID

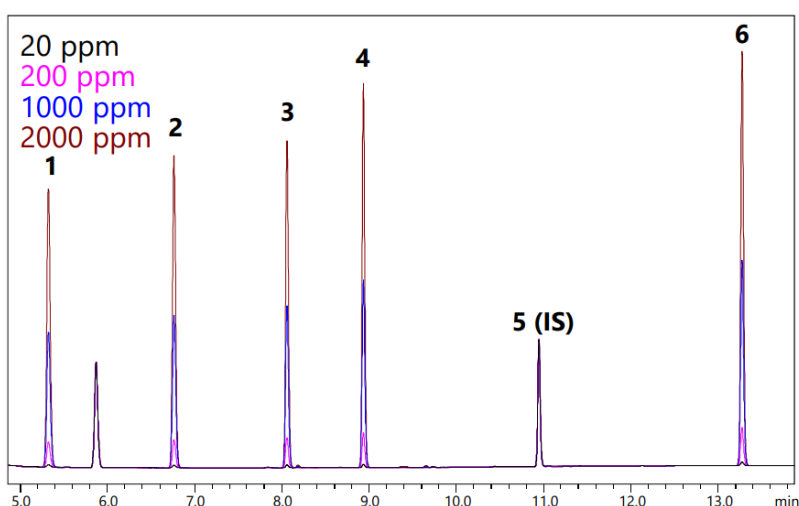
AOC

SH Series

SH-PolarWax

Analysis of aromatics Using Automated Injection of Internal Standards

Keywords: Aromatic compounds, Internal standard method



1. Benzene
2. Toluene
3. o-Xylene
4. Ethyl benzene
5. p-BFB
6. Tetralin

Model	: Nexis™ GC-2030 / AOC-30i
Injection Mode	: Sampler Navigator - sandwich-injection (IS 5 %, sample 0.5 µL)*
Syringe	: 10 µL syringe for AOC, P/N: 221-34618
Injection Volume	: 0.5 µL (IS) + 0.5 µL (Mixture)
Injection Temp.	: 200 °C
Injection Mode	: Split
Split Ratio	: 1:30
Carrier Gas	: He
Carrier Gas Control	: Linear Velocity (35 cm/s)
Column	: SH-PolarWax (60 m x 0.32 mm I.D. d. = 1.0 µm), P/N: 227-36252-02
Column Temp.	: 90 °C - 20 °C/min - 200 °C (5 min)
Detector	: Flame Ionization Detector (FID)
Detector Temp.	: 250 °C
Detector Gas	: H ₂ 32 mL/min, Air 200 mL/min
Makeup Gas	: N ₂ 24 mL/min

* The IS injection volume can be selected for 5 % or 10 % of the syringe volume.

Source : Application News 01-00005 ([JP](#), [ENG](#))

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