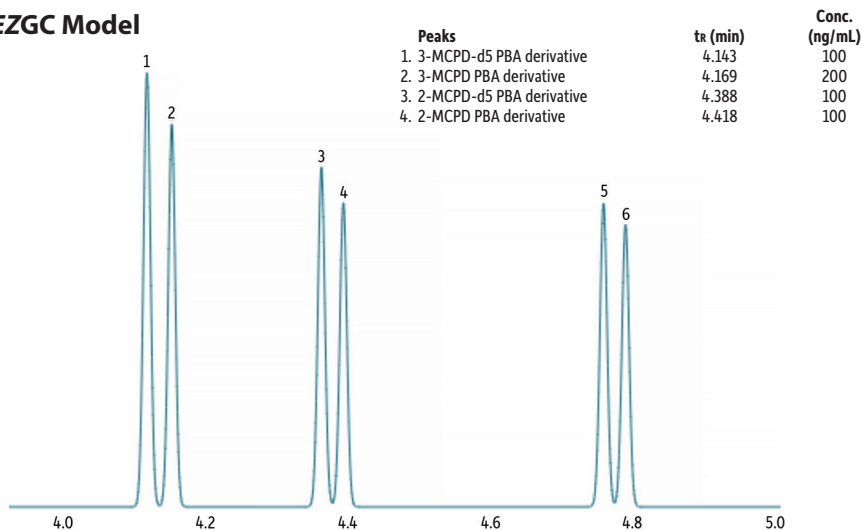
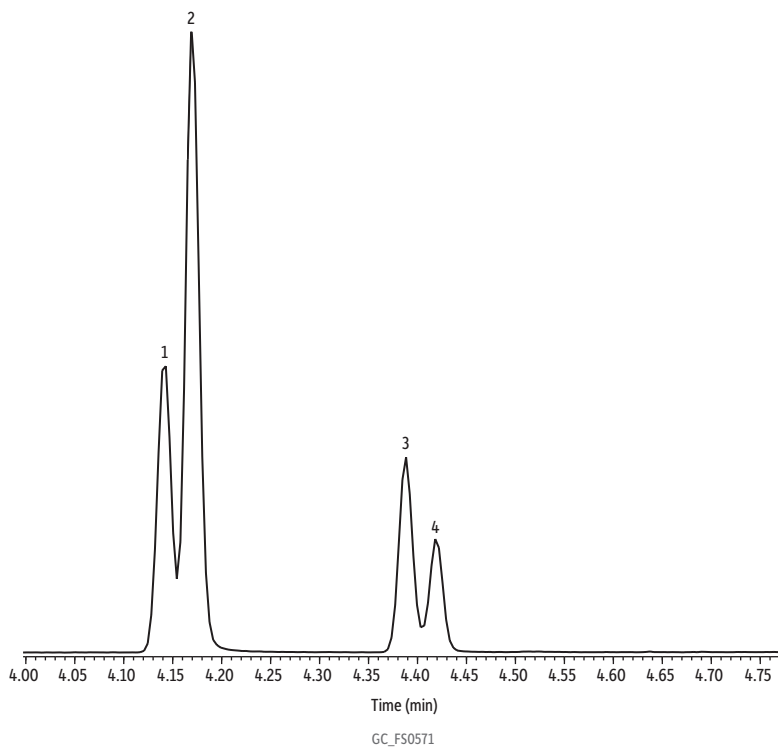


Fast Analysis of 3-MCPD and 2-MCPD on Rxi-17Sil MS

Pro EZGC Model



Experimental Chromatogram



Column Rxi-17Sil MS, 20 m, 0.18 mm ID, 0.18 µm (cat.# 14102)
Standard/Sample See notes
Diluent: Isooctane
Injection
 Inj. Vol.: 1 µL PTV split (split ratio 10:1)
 Liner: Topaz 2.0 mm ID straight inlet liner w/wool (cat.# 23314)
 Inlet Temp. Program: 120 °C to 165 °C at 300 °C/min (hold 10 min) to 320 °C at 300 °C/min (hold 8 min)
Oven
 Oven Temp.: 120 °C (hold 0.5 min) to 200 °C at 18.5 °C/min to 330 °C at 35 °C/min
Carrier Gas
 Flow Rate: He, constant flow
 1 mL/min
Detector
 Mode: MS
 SIM Program: SIM
 147, 150, 196, 201 m/z, 50 ms dwell

Transfer Line Temp.: 320 °C
Analyzer Type: Quadrupole
Source Type: Inert
Source Temp.: 230 °C
Quad Temp.: 150 °C
Ionization Mode: EI
Instrument Agilent 7890A GC & 5975C MSD
Sample Preparation Standards were derivatized with 20 µL phenylboronic acid (saturated solution in diethyl ether), dried, and then reconstituted in 1 mL isooctane. Final concentrations are given in the peak table.
Notes Compounds and retention times in the peak list are from the actual chromatographic analysis. PBA derivatives of 3-MBPD-d5 and 3-MBPD were included in the Pro EZGC model, but not in the experimental analysis.