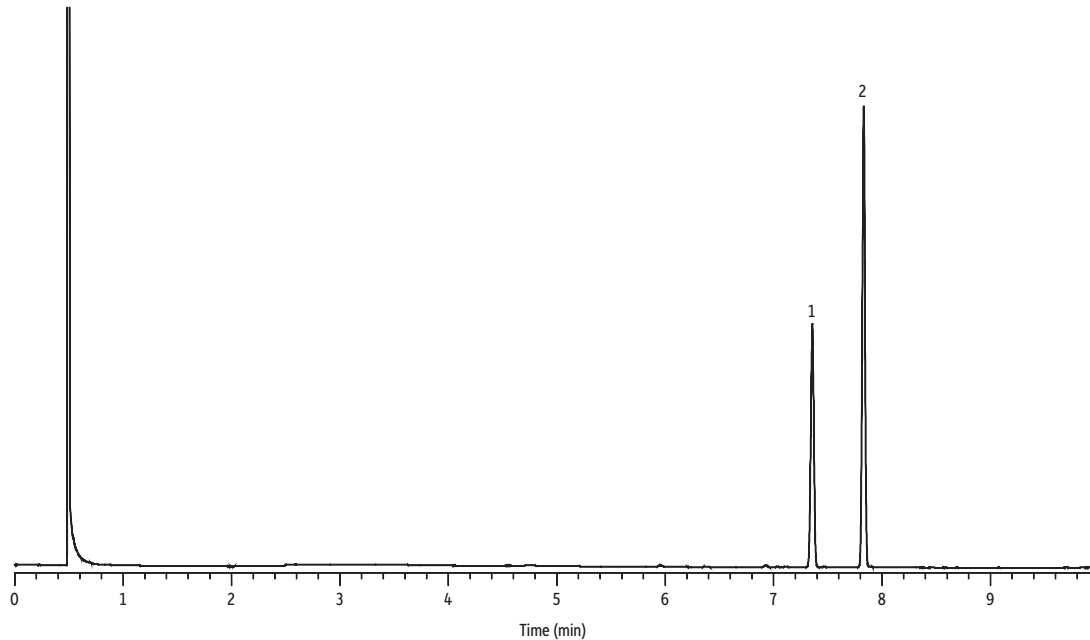


# Butylated Hydroxytoluene (BHT) and Butylated Hydroxyanisole (BHA) on Rtx-50



GC\_FF1381

Peaks	Retention Time (min)	Concentration (µg/mL)	Mass On-Column (ng)
1. Butylated hydroxytoluene (BHT)	7.35	2000	20
2. Butylated hydroxyanisole (BHA)	7.83	4000	40

**Column** Rtx-50, 30 m, 0.53 mm ID, 0.50 µm (cat.# 10540)  
**Standard/Sample** Butylated hydroxyanisole (BHA)  
 Butylated hydroxytoluene (BHT)  
**Diluent:** Methanol  
**Injection**  
 Inj. Vol.: 1 µL split (split ratio 100:1)  
 Liner: Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)  
 Inj. Temp.: 250 °C  
 Split Vent Flow Rate: 859 mL/min  
 Gas Saver Time: 2 min  
 Gas Saver Flow Rate: 20 mL/min  
**Oven**  
 Oven Temp.: 50 °C to 240 °C at 15 °C/min (hold 3 min)  
**Carrier Gas** He, constant pressure (6 psi, 41.4 kPa)  
 Linear Velocity: 58 cm/sec @ 50 °C  
**Detector** FID @ 250 °C  
 Make-up Gas Flow Rate: 35 mL/min  
 Make-up Gas Type: H<sub>2</sub>  
 Hydrogen flow: 40 mL/min  
 Air flow: 400 mL/min  
 Data Rate: 20 Hz  
**Instrument** Agilent 7890B GC  
**Sample Preparation** Weighed 0.002 g BHT and 0.004 g BHA and diluted to 1 mL in methanol, producing a mixed standard that contained 2000 µg/mL BHT and 4000 µg/mL BHA.