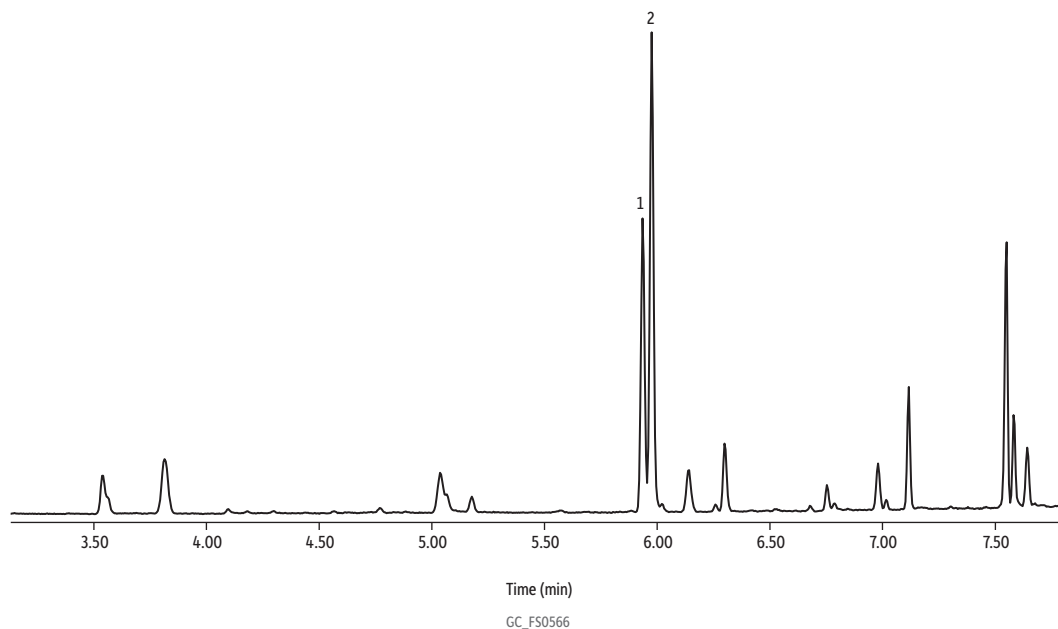


### 3-Monochloropropane-1,2-Diol (3-MCPD) Esters in Olive Oil on Rxi-17Sil MS



| Peaks                       | ts (min) | Conc. (µg/g) |
|-----------------------------|----------|--------------|
| 1. 3-MCPD-d5 PBA derivative | 5.937    | 1.81         |
| 2. 3-MCPD PBA derivative    | 5.977    | 2.94         |

**Column** Rxi-17Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 14123)  
**Standard/Sample** Extracted olive oil  
**Diluent:** Isooctane  
**Injection**  
Inj. Vol.: 1 µL split (split ratio 10:1)  
Liner: Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)  
Inj. Temp.: 280 °C  
**Oven**  
Oven Temp.: 120 °C (hold 0.5 min) to 180 °C at 12 °C/min to 330 °C at 25 °C/min (hold 5 min)  
**Carrier Gas**  
Carrier Gas He, constant flow  
Flow Rate: 1.4 mL/min  
**Detector**  
Detector MS  
Mode: SIM  
SIM Program: 147, 150, 196, 201 m/z, 50 ms dwell  
Transfer Line Temp.: 320 °C  
Analyzer Type: Quadrupole  
Source Temp.: 230 °C  
Quad Temp.: 150 °C  
**Instrument** Agilent 7890A GC & 5975C MSD  
**Sample Preparation** The olive oil sample was spiked with 3-MCPD-d5 ester and prepared according to AOCS method Cd 29c-13.