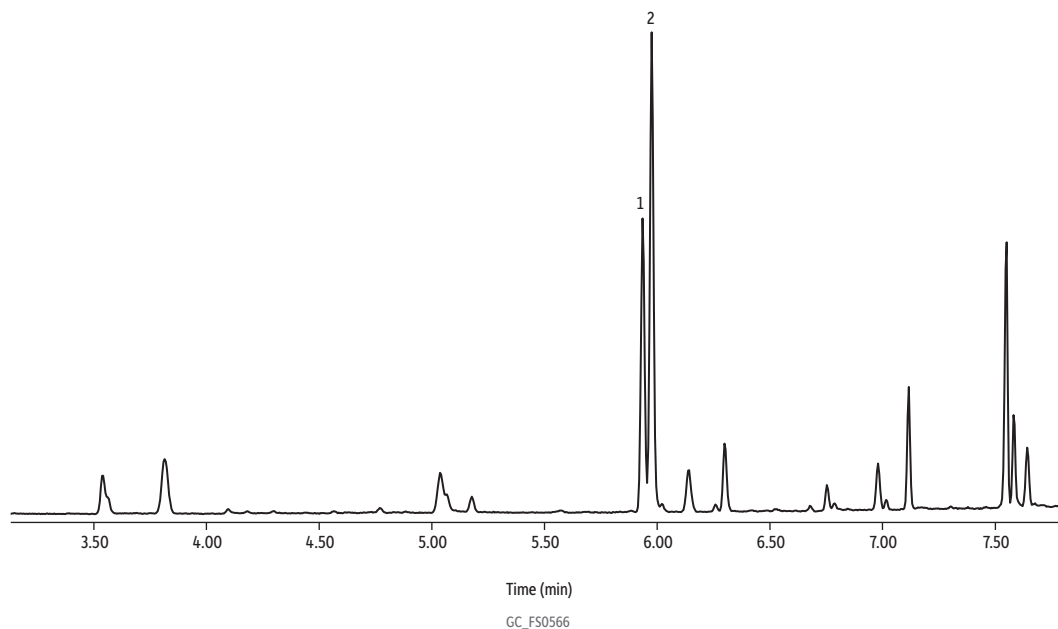


3-Monochloropropane-1,2-Diol (3-MCPD) Esters in Olive Oil on Rxi-17Sil MS



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 He, constant flow
Flow Rate: 1.4 mL/min
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.
Notes Restek MCPD reference standards are now available. Search for MCPD on www.restek.com to view our full selection.