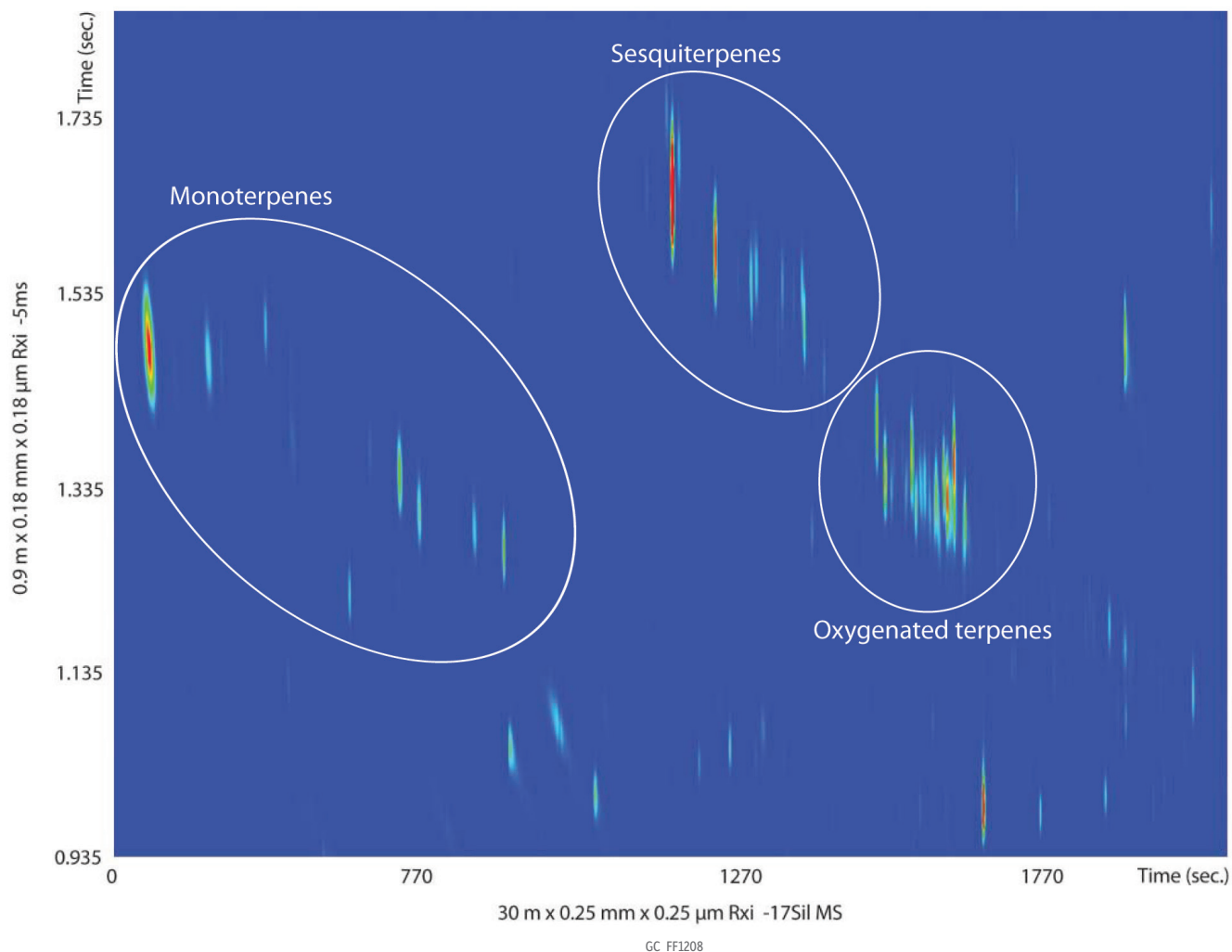


# QuEChERS Extract of Cannabis on Rxi-17Sil MS and Rxi-5ms by GCxGC-TOFMS (Zoomed in on terpenes region)



**Column**  
Rxi-17Sil MS 30 m, 0.25 mm ID, 0.25 μm (cat.# 14123)  
Rxi-5ms 0.9 m, 0.18 mm ID, 0.18 μm

**Injection**  
Inj. Vol.: 1 μL split (split ratio 20:1)  
Liner: Premium 4 mm Precision inlet liner w/wool (cat.# 23305.1)  
Inj. Temp.: 275 °C

**Oven**  
Oven Temp.: Rxi-17Sil MS: 40 °C (hold 1 min) to 320 °C at 5 °C/min (hold 3 min)  
Rxi-5ms: 45 °C (hold 1 min) to 325 °C at 5 °C/min (hold 3 min)

**Carrier Gas**  
Modulation  
Modulator Temp. Offset: 20 °C  
Second Dimension  
Separation Time: 2 sec  
Hot Pulse Time: 0.6 sec  
Cool Time between Stages: 0.4 sec

**Detector**  
Transfer Line Temp.: TOFMS  
310 °C  
Analyzer Type: TOF  
Source Temp.: 250 °C  
Electron Energy: 70 eV  
Mass Defect: -20 mu/100 u  
Solvent Delay Time: 4.5 min  
Tune Type: PFTBA  
Ionization Mode: EI  
Acquisition Range: 45-500 amu  
Spectral Acquisition Rate: 200 spectra/sec

**Instrument**  
LECO Pegasus 4D GCxGC-TOFMS

**Sample Preparation**  
Sample: Up to 2 g of finely ground cannabis in a 50 mL polypropylene centrifuge tube.

*Extraction:* Add 10 mL acetonitrile and 10 mL of organic-free water, then shake thoroughly. Soak 1 hour, then aggressively vortex 30 minutes. Add Q-sep packet (cat.# 26235), shake 1 minute, then centrifuge 5 minutes at 3000 g with Q-sep 3000 centrifuge (cat.# 26230).