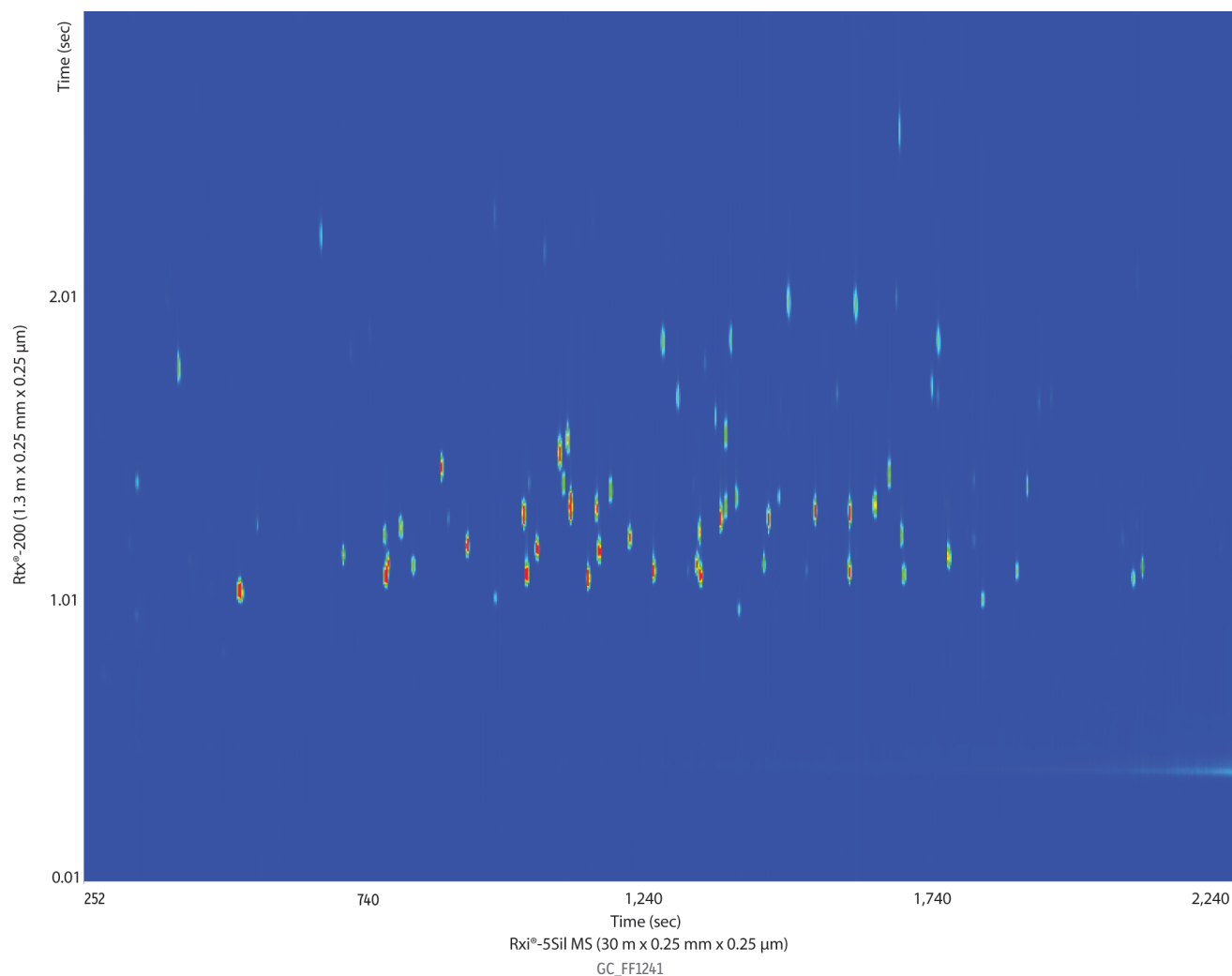


GCxGC-TOFMS Analysis of Multi-Pesticide Standard Using Rxi®-5Sil MS and Rtx®-200



Column Rxi®-5Sil MS 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
 Rtx®-200 1.3 m, 0.25 mm ID, 0.25 µm (cat.# 15124)

Sample Custom pesticide standard

Diluent: Acetonitrile

Conc.: 500 pg/µL

Injection

Inj. Vol.: 1.0 µL splitless (hold 1.0 min)

Liner: Premium 4 mm single taper w/wool (cat.# 23303.5)

Inj. Temp.: 250 °C

Oven

Oven Temp.: Rxi®-5Sil MS: 90 °C (hold 1.0 min) to 310 °C at 5 °C/min (hold 2.0 min)
 Rtx®-200: 95 °C (hold 1.0 min) to 315 °C at 5 °C/min (hold 2.0 min)

Carrier Gas He, corrected constant flow (2 mL/min)

Modulation

Modulator Temp. Offset: +20 °C

Second Dimension

Separation Time: 3 sec

Hot Pulse Time: 0.9 sec

Cool Time between

Stages: 0.6 sec

Detector MS

Mode:

Transfer Line Temp.: 300 °C

Analyzer Type: TOF

Source Temp.: 225 °C

Electron Energy: 70 eV

Mass Defect: -20 mu/100 u

Ionization Mode: EI

Acquisition Range: 45 to 550 amu

Spectral Acquisition

Rate: 100 spectra/sec

Instrument LECO Pegasus 4D GCxGC-TOFMS

Notes Rtx®-200 (cat.# 15124) is a 2 m column. A 1.3 m section was cut off and used as the second dimension column.