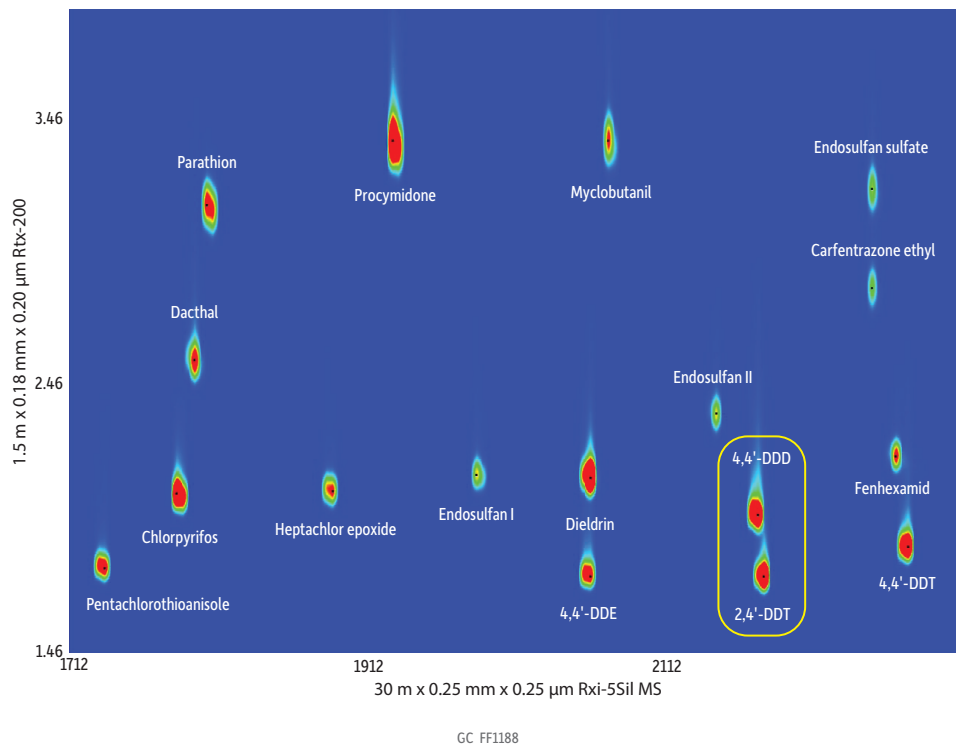


Pesticides in Dietary Supplements (Zoom of GCxGC-TOFMS Contour Plot)

Excellent two-dimensional separation of pesticides using orthogonal column set of Rxi-5Sil MS and Rtx-200. Note 2D separation of compounds that have isobaric interferences when coeluting on Rxi-5Sil MS, 2,4'-DDT and 4,4'-DDD.



Column	Rxi-5Sil MS 30 m, 0.25 mm ID, 0.25 μ m (cat.# 13623) Rtx-200 1.5 m, 0.18 mm ID, 0.20 μ m (cat.# 45001)
Standard/Sample	Mixed pesticide standard
Diluent:	Toluene
Conc.:	2 ng/ μ L
Injection	
Inj. Vol.:	1 μ L splitless (hold 1 min)
Liner:	Gooseneck Splitless (4mm) w/Wool (cat.# 22405)
Inj. Temp.:	250 $^{\circ}$ C
Purge Flow:	40 mL/min
Oven	
Oven Temp.:	Rxi-5Sil MS: 80 $^{\circ}$ C (hold 1 min) to 310 $^{\circ}$ C at 4 $^{\circ}$ C/min (hold 1.5 min) Rtx-200: 90 $^{\circ}$ C (hold 1 min) to 320 $^{\circ}$ C at 4 $^{\circ}$ C/min (hold 1.5 min)
Carrier Gas	
Flow Rate:	He, constant flow 1.8 mL/min
Modulation	
Modulator Temp. Offset:	25 $^{\circ}$ C
Second Dimension	
Separation Time:	4 sec
Hot Pulse Time:	1.2 sec
Cool Time between Stages:	0.8 sec
Detector	
Transfer Line Temp.:	290 $^{\circ}$ C
Analyzer Type:	TOF
Source Temp.:	225 $^{\circ}$ C
Electron Energy:	70 eV
Mass Defect:	-20 mu/100 u
Solvent Delay Time:	4 min
Ionization Mode:	EI
Acquisition Range:	45 to 550 amu
Spectral Acquisition Rate:	100 spectra/sec
Instrument	
Notes	LECO Pegasus 4D GCxGC-TOFMS See application note GNAN1338 for extraction and cleanup details. A 1.5 m length of the Rtx-200 column was trimmed from a 10 m column. Columns were connected with a Universal Press-Tight Connector (cat.# 20429). See chromatogram GC_FF1187 for full scale view.