

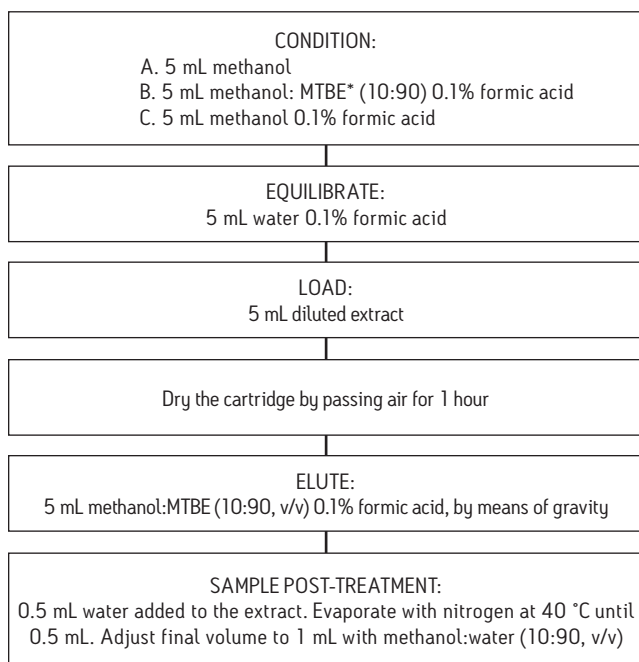
MULTIRESIDUE LC/MS/MS DETERMINATION OF 52 NON GAS CHROMATOGRAPHY-AMENABLE PESTICIDES AND METABOLITES IN FRUITS AND VEGETABLES

Pretreatment

1. Samples (lemon, raisin, tomato and avocado) were cut into small pieces.
2. A 20 g portion of homogenized sample was mixed with 60 mL 0.1% formic acid in methanol:water (80:20, v/v).
3. Extraction for 2 minutes with Ultra-Turrax at 8000 rpm.
4. Filtration and dilution with methanol:water 0.1% formic acid (80:20, v/v) to a final volume of 100 mL.
5. 2.5 mL aliquot diluted to 20 mL with 0.1% formic acid in water. Load 5 mL of the diluted extract onto the SPE cartridge.

SPE Procedure

Oasis® HLB 6cc/200mg



*MBTE: methyl-*t*-butyl ether

LC Conditions

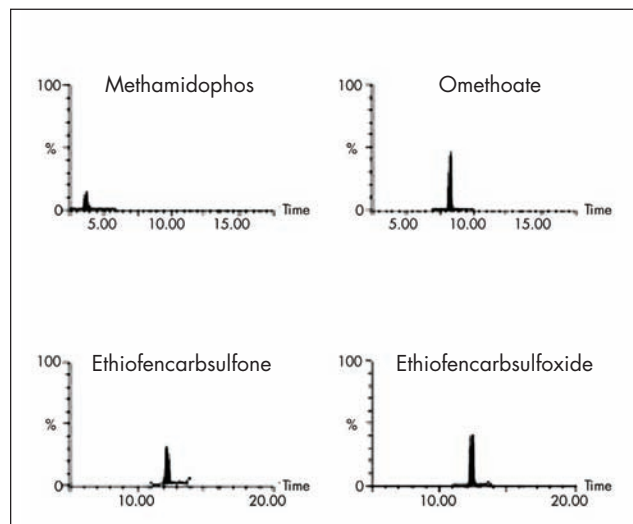
Instrument: Waters Alliance® HPLC 2695 System
Column: Atlantis® dC₁₈, 2.1 x 100 mm, 5 µm
Flow rate: 0.2 mL/min
Mobile phase: A. 0.01% formic acid in water
B. 0.01% formic acid in methanol

Gradient:	Time	A%	B%
	0	95	5
	1	95	5
	8.5	50	50
	25	10	90
	28	10	90
	29	95	5
Injection volume:	20 µL		

MS Conditions

Instrument: Waters Quattro micro™
Ionization mode: Positive electrospray (ESI+)
Multiple reaction monitoring

Results



LC/MS/MS chromatograms for 4 representative pesticides.

Ordering Information

Description	Part Number
Oasis HLB, 6 cc/200 mg, 30/box	WAT106202
Atlantis dC ₁₈ , 2.1 x 100, 5 µm	186001297
LCMS Certified Combination Packs	600000751CV