Pesticides on Sweet Potato With and Without QuEChERS dSPE Cleanup on Rxi-5Sil MS

Q-sep QuEChERS tubes easily remove matrix interferences.

Peaks
1. Hexadecanoic acid

Column
Rxi-5Sil MS, 20 m, 0.18 mm ID, 0.18 µm (cat.# 43602)

Standard/Sample
Sweet potato spiked with pesticide mix and extracted with acetonitrile and Q-sep
QuEChERS EN Method 15662 extraction salts

Injection
Inj. Vol.: 1.0 µL splitless (hold 1 min)
Liner: Single taper (4 mm) w/deact. wool (cat.# 22405)
Inj. Temp.: 250 °C

Oven
Oven Temp.: 72.5 °C (hold 1 min) to 350 °C at 20 °C/min
Carrier Gas: He, constant flow
Flow Rate: 1.2 mL/min

Detector
MS
Mode:
Transfer Line Temp.: 300 °C
Analyzer Type: TOF
Ionization Mode: EI
Acquisition Range: m/z 55-550 amu

Instrument
Agilent/HP6890 GC

Sample Preparation
A. Extract (without cleanup step) acidified with formic acid to pH 5.
B. Extract with cleanup using Q-sep QuEChERS dSPE cleanup tube (cat.# 26124) acidified with formic acid to pH 5.

Notes
m/z 60, 73, 87, 129, 256 plotted