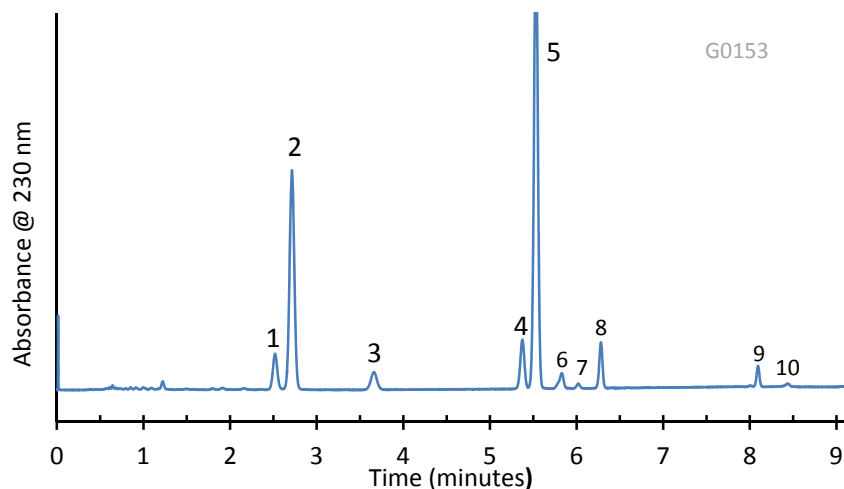


Separation of 6 Pyrethrins on HALO-5 C18



PEAK IDENTITIES:

1. Cinerin II
2. Pyrethrin II
3. Jasmolin II
4. Cinerin I
5. Pyrethrin I
6. Unknown
7. Unknown
8. Jasmolin I
9. Unknown
10. Unknown

TEST CONDITIONS:

Column: HALO 90 Å, C18, 5 µm, 3.0 x 150 mm

Part Number: 95813-702

Mobile Phase:

A= Water

B= Acetonitrile

Gradient:

Time	%B
0.0	60
3.0	60
5.0	72
7.0	90
9.0	90

Flow Rate: 1.1 mL/min.

Pressure: 170 Bar

Temperature: 30°C

Detection: UV 230 nm, VWD

Injection Volume: 3.0 µL

Sample Solvent: acetonitrile

Response Time: 0.02 sec.

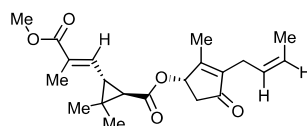
Data rate: 17 Hz

Flow Cell: 2.5 µL semi-micro

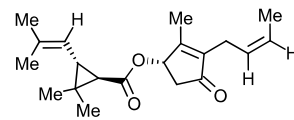
LC System: Shimadzu Prominence UFLC XR

ECV: ~14 µL

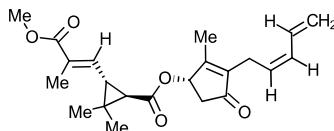
STRUCTURES:



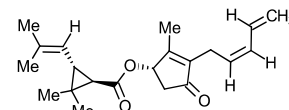
Cinerin II



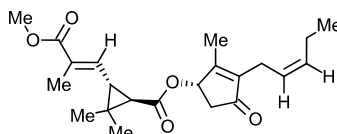
Cinerin I



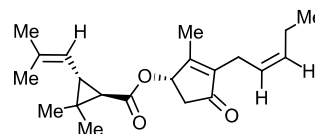
Pyrethrin II



Pyrethrin I



Jasmolin II



Jasmolin I

Pyrethrins are potent insecticides that affect the nervous systems of insects. These six pyrethrin isomers can be separated rapidly using a HALO-5 C18 column with low backpressure and good resolution.