

## FAMES In Olive Oil by GC/MS on Zebron ZB-FAME

**Column:** Zebron ZB-FAME, GC Cap. Column 30m x 0.25mm x 0.2µm , Ea

**Phase:**

**Dimensions:** 30 meters x 0.25 mm x 0.2 µm

**Order No:** 7HG-G033-10

**Oven Profile:** 100 °C for 2 min to 214 °C @ 3 °C/min

**Carrier Gas:** Constant Flow Helium, 1 mL/min

**Injection:** Split 50:1 1 µL @ 240°C

**Detection:** Mass Spectrometer (MS) (250°C)

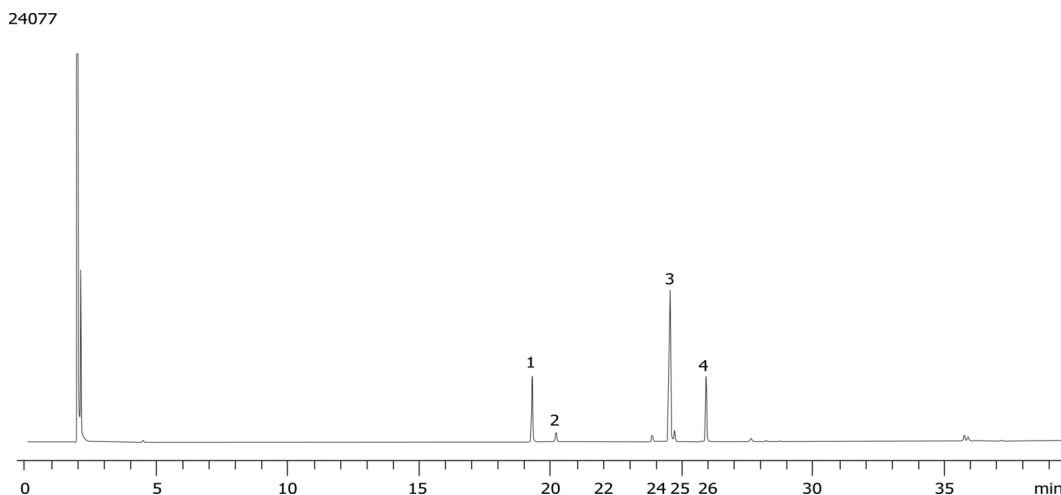
**Analyst Note:** Recommended Accessories:  
Recommended Liner: Zebron PLUS Single Taper Z-Liner, 4 mm ID  
Liner Part No.: AG2-0A13-05 (for Agilent systems)  
Inlet Seal: AG0-8620 (Gold Plated Easy Seal)  
Septum: AG0-4696 (PhenoRed-400)

**Sample Preparation:**

1. Weigh out 25 mg of oil into a 5 mL screw cap glass vial
2. Add 2 mL of BF<sub>3</sub>-methanol to sample vial
3. Heat vial at 60 °C for 15 minutes with periodic vortexing
4. Remove from heat and allow to attain room temperature
5. Add 1 mL water followed by 1 mL hexane
6. Vortex for 1 minute
7. Remove upper organic layer
8. Dry hexane layer over anhydrous sodium sulfate
9. Transfer to autosampler vial and inject on GC



Products used in this application:



### ANALYTES:

- 1 C16:0
- 2 C16:1 cis 9
- 3 C18:1 cis 9
- 4 C18:2 cis 9,12

