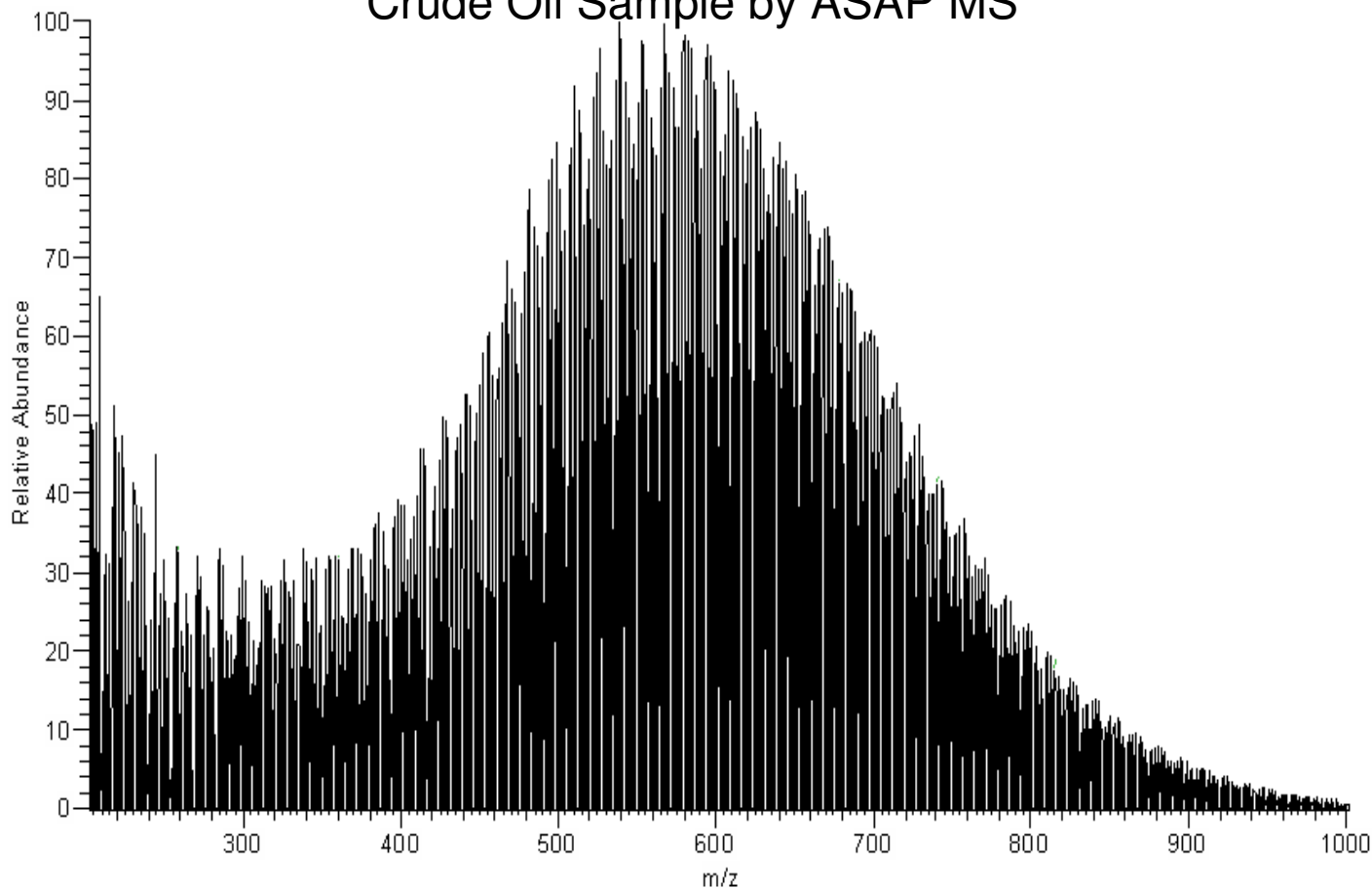


## Analysis of Crude Oil by ASAP Mass Spectrometry

ASAP mass spectrometry provides more universal ionization than either ESI or liquid introduction APCI. Elimination of solvent in the APCI source allows hydrocarbons to be ionized. This is demonstrated with a crude oil sample in which numerous compounds are efficiently ionized. Even at 100,000 resolution (50% valley) on a Thermo Fischer Orbitrap® mass spectrometer, there are ions at  $m/z$  528 that are unresolved.

### Crude Oil Sample by ASAP MS



Instrument Resolution 100,000

### Crude Oil ASAP-MS 100,000 Resolution

