



# GC - MS Technical Training

## Module Name: GC-MS – Mass Spectral Interpretation

**Time Allocated:** 1.5 - 2 hours

**Intended Audience:** This module assumes a basic knowledge of gas chromatography but assumes no prior knowledge of GC-MS.

### Content Covers:

- Mass spectra comparison of structural isomers
- Library search algorithms
- Library search results interpretation
- Mass spectral interpretation
- Isotopic abundances
- Odd nitrogen rule
- Alpha cleavage and simple re-arrangements

### At the completion of this seminar, attendees should be able to:

- Be able to interpret a commercial mass spectral library search report
- Be aware of the traps of library search matching especially for structural isomers
- Identify the parent peak and be aware of logical and illogical losses
- Predict the main fragment ions based on likely fragmentation