



# GC - MS Technical Training

## Module Name: GC-MS – Setting Up the Method

**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:

- Autotune
- Optimizing MS parameters using Manual Tune
- Full Scan mode
- Selected Ion Monitoring (SIM) mode
- Relationship between GC and MS parameters and setting the optimum conditions

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

- Based also on the hardware module, understand the output from an Autotune report and how this relates to instrument performance
- Understand the advantages and drawbacks of changing the full scan mass range
- Know when to use full scan and SIM modes
- Know which ions to avoid in SIM mode based on common contaminant ions and fragmentation patterns
- Be able to choose SIM ions based on obtaining maximum specificity and sensitivity
- Know how to increase sensitivity and decrease noise in a GC-MS system