

Analytical Instruments Testing Series TRAINING ON GCMS/MSD

Gas Chromatography Mass Spectrometry is one of the most important tools for quantitative identification of volatile and semi-volatile organic compounds in a complex mixture. Spectro conduct training programs for providing general introduction of GC-MS/MS Detectors under which full knowledge of detailed description of the instruments, its theory and the use of their accessories is imparted.



Objective of the Training



The program is well-designed for those who are complete beginners/early users to GC-MS, analysts experienced with a few years in GC and/or GC-MS analysis looking for a first formal course. We provide training on GC with FID and TCD (Nucon 5700), GC-MS/MS (Thermo Finnigan, Polaris Q.), GC-MS/MS Triple Quad (Agilent-GC 7890A and MS 7000), GC-MSD (Agilent-GC 7820 AGC and MSD 5977E) and GC with FID and TCD (East & West 4000 A, EGC-4002A). The training is carried out according to the specified protocols and fundamental principles of GC, Theory of Single/Triple Quadrupole, Data acquisition and Data quantification, General Hardware and Software, System Evaluation and Method building are discussed in detail.

Training Module for 6 Days

Day 1

Introduction to GC-MS, Principles of Mass Spectroscopy, Ionisation techniques, Scan modes, PICI & NICI (positive & negative chemical Ionisation), Sample introduction (injection techniques).

Day 2

Explanation of Pre-Acquisition software: Tuning and Calibration, Calibration report generation, MS Tune File, Explanation of MS Method, GC Method.

Day 3

Introduction to Data acquisition software, System and method Parameter setup, Set up method for Full Scan and Single Ion Monitoring Operation, On-column injection, Split/Split less injection.

Day 4

Introduction to Qualitative software, Quantitative software, Library search Concepts, integration, report generation.

Day 5

Explanation on sample Preparation techniques/ Extraction techniques with demonstration.

Day 6

Maintenance of GC-MS and Troubleshooting covering the problems related to Gas supply, inlet, auto-sampler, column and detector.



Minimum Eligibility Required:

The trainee must possess a graduation degree in science field or must be pursuing the same.

Benefits of the Training:

The training is beneficial to the person who wants to mark his presence in the industries which relates to chemicals, oil industries, cosmetics, pharmaceuticals, food, agriculture, analytical testing laboratories and several others.

Please Note:

- ☞ We also conduct customized training programs on request.
- ☞ The certificate will be provided only after clearing a test.



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