

1100 LC/MSD Ion Trap Techniques and Software Operation

Agilent Chemical Analysis Training Courses

H8966A

Four Days

Lecture with associated laboratory exercises using a personal computer

Description

This course introduces the theory and operation of the Agilent 1100 Series LC/MSD Ion Trap. Students learn how to use the LC/MSD trap quickly and efficiently for improved productivity.

Topics cover how to obtain quality data and maintain the system, reducing downtime.

Course Outline

- Overview of system components
- Understanding Atmospheric Pressure Ionization (API)
- Understanding ion trap mass spectrometry
- Basics of mass spectral information obtained by the LC/MSD ion trap
- LC/MSD ion trap sample introduction and HPLC configurations
- Optimizing Electrospray Ionization (ESI) and Atmospheric Pressure Chemical Ionization (APCI) for on-line LC/MS analysis
- LC/MSD ChemStation and Windows Overview
- · Starting and shutting down
- Tuning and calibrating
- Flow injection analysis
- Data acquisition
- Developing acquisition methods
- Qualitative data analysis
- Specifics of LC/MS quantitation
- Integration
- Quantification using QuantAnalysis
- Reporting
- Sequence
- Diagnosis view and routine maintenance

Optional

- Library searching
- Deconvolution
- Peptide tools

Prerequisites

An understanding of the fundamentals of HPLC. Laboratory experience.

Student Profile

Laboratory professionals who want to:

- Increase their knowledge and ability to use the full functionality of the Agilent 1100 LC/MSD Trap ChemStation.
- Learn the proper care of the Agilent 1100 LC/MSD Ion Trap.
- Develop HPLC methods appropriate for the Agilent 1100 LC/MSD Ion Trap.
- Understand API processes.

Equipment Used during Training

- Agilent HPLC ChemStation software
- Agilent 1100 Series LC/MSD Ion Trap software
- Bioanalysis software
- \bullet Computers with Microsoft® Windows NT or 2000

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