

AMD 402 / 403

High Performance Mass Spectrometer Series of Open Design



SYSTEM SPECIFICATIONS

ANALYZER

Double-focusing analyzer system in BE-configuration on anti-vibration platform, fully laminated magnet with approx. 40 cm deflection radius, electric sector field with high energy dispersion.

Electrically operated entrance and exit slits.

Post accelerating system (up to ± 15 kV) including SEM.

Vacuum system including 3 turbo-molecular pumps for ion source and analyzer region and safety circuitry

IONIZATION AND HYPHENATED TECHNIQUES

High intensity EI/CI standard ion source

API (ESI/APCI), DCI/DEI, Liquid SIMS and FI/FD

GC/MS, LC/MS

SAMPLE INTRODUCTION

Direct Insertion Probe, DCI Probe, High Temperature DEI Probe and customized systems including robot control for fully automated analyses

PERFORMANCE SPECIFICATIONS

RESOLUTION

$> 25\,000$ (10% valley definition)

MASS RANGE

2000 dalton at 8 kV accelerating voltage

4000 dalton at 4 kV accelerating voltage

SENSITIVITY

$> 2 \times 10^{-7}$ C/ μ g for the molecular peak of methyl stearate at 1000 resolution (10% valley definition)

INSTRUMENT CONTROL AND DATA SYSTEM

PC based (Microsoft-Windows™) Multi-Tasking Instrument-Control-System (MICS) and data system for simultaneous acquisition, display and evaluation of data.

Software control of ion sources and all system parameters, scan functions, sample introduction systems and other peripheral units

Low resolution and high resolution magnetic and electric scan modes including Linked Scans, MIKES and selected ion monitoring techniques

All common data evaluation methodologies including Accurate Mass Matching, Atomic Composition Determination, Quantitation and Library Search

Special system automation hardware and software modules

The Innovators in Magnetic Sector Mass Spectrometry

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