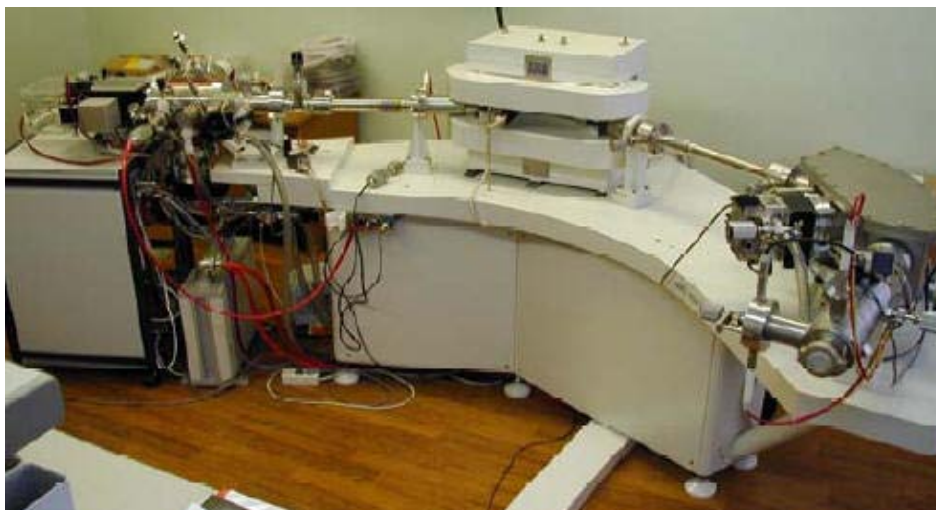


AMD 604 S

High Mass and High Resolution Research Mass Spectrometer



System Specifications

ANALYZER

Double focusing magnetic sector mass spectrometer of the classical **AMD high resolution magnetic sector systems** in reversed Nier-Johnson configuration; special ion optical design with 60 cm magnet radius and modular electronics

AMD Single Detector Technology with exit slit arrangement, post-acceleration and SEM ion detection system

Universal ion source housing for different ionization techniques, sample inlet systems and coupling with peripheral chromatographic systems

Vacuum system consisting of air-cooled turbo molecular pumps for ion source and analyzer, rotary pump, vacuum control unit with safety circuitry

IONIZATION AND HYPHENATEDTECHNIQUES

EI/CI; API (ESI/APCI); DCI/DEI; Liquid SIMS; FI/FD;

GC/MS; LC/MS

SAMPLE INTRODUCTION

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

PERFORMANCE SPECIFICATIONS

RESOLUTION

> 25 000 (10% valley definition)

MASS RANGE

4000 Dalton at 8 kV accelerating voltage

SENSITIVITY

> 1×10^{-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

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