Astronomic Dimensions in Mass Spectrometry

AMD QuAS^{3}AR

The Innovation in Magnetic Sector MS

The new **AMD QuAS³AR** is designed for the demanding challenges in **Life Sciences** and **Environmental Analyses**

The future orientated **AMD QuAS³AR combines all advantages** of magnetic sector, time of flight and quadrupole technologies resulting in an unmatched summation of success parameters:
Quality of **A**nalyses, **S**ensitivity, **S**peed, **S**pecificity, **A**ccuracy, **R**esolving power = **QuAS³AR**

Unique combination of ionization techniques results in **outstanding features** for GC/MS, LC/MS and future CE/MS methodologies

Configurations:

- **Dedicated GC/MS with unique in-axis EI and CI sources for simultaneous recording of fragment ions and quasi-molecular ions or rapid switching between the ionization techniques**
- **Dedicated LC/MS with unique in-axis API (ESI/APCI) and EI sources**
- **Dual Chromatography GC/LC/MS for alternating analyses in both chromatography modes**
- **Multi Purpose Systems according to customer demands incorporating additional modules as DEI, DIP, DCI, FI, FD, Liquid SIMS (FAB) techniques**

Features:

- **Electric recording of mass spectra covering 1.2 mass decades by simultaneous multi channel scanning**
- **Fast scan speed achieving up to 30 spectra per sec for full scan**
- **Accurate mass measurements better than 5 ppm at dynamic working resolution (6000 FWHM)**
- **Outstanding long term stability of external calibration and use of one lock mass for full mass range**
- **Large dynamic range and drastically improved specificity for quantitative SIM analyses using new de-convolution methodologies**

Technology:

- **A compact double focussing magnetic sector analyzer applying Mattauch-Herzog ion optical geometry**
- **Focal plane for the detection of highly resolved ions in a wide mass range at constant magnetic field**
- **Unique AMD QuAS³AR technology using parallel multi channel detection system**
- **Latest digital hardware technolgy for data acquisition and processing and sophisticated new software**

The Innovators in Magnetic Sector Mass Spectrometry

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