Thomas Bienert
Life Sciences Solutions
Deutschland
Agilent Technologies

Agilent Portfolio
Life Sciences and Chemical Analysis


MR Imaging


Prep LC


NMR


Bravo Automated Liquid Handling Platform


Microarray


Capillary Electrophoresis, Bioanalyzer portfolio


Dissolution


ICP MS


X-Ray


LC Q-TOF


LC-Technologies


LC-QQQ


Columns


Ion Trap


ICP OES


UV/VIS


GC - Technologies


GC / MS- Technologies

Vacuum Technologies

8800 Triple Quadrupole ICP-MS

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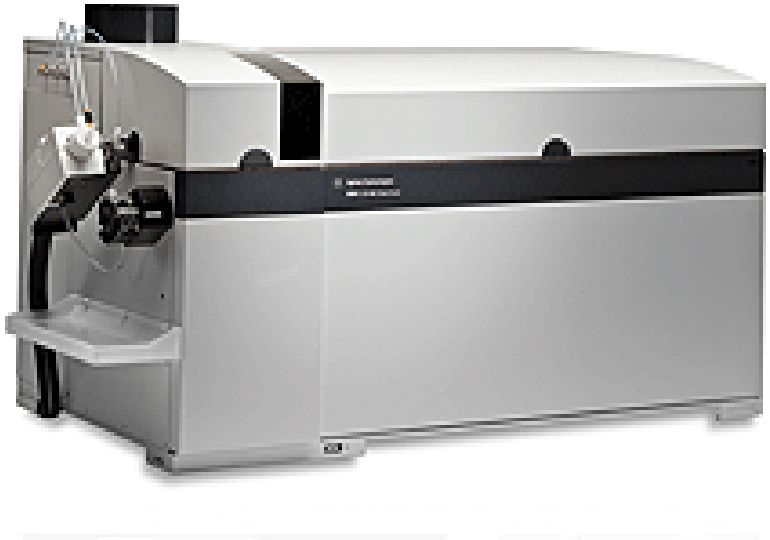
2012 Product of the Show

IBO has selected Agilent's 8800 triple quadrupole inductively coupled plasma–MS (ICP-MS) as the outstanding new product at this year's ASMS meeting. While the majority of ICP-MS systems are based on single quadrupole mass analyzers, and there are a handful of TOF and magnetic sector systems, the 8800 is the first triple quadrupole ICP-MS. Thus, the 8800 is the first ICP-MS capable of performing MS/MS. ICP-MS is primarily a quantitative instrument, but the need for sensitivity to analyze ever-smaller concentrations has been driving the development of improved ICP-MS performance. The system also can be operated as a standard single quadrupole ICP-MS.

The 8800 ICP-MS is expected to have the most significant immediate impact in the semiconductor and fine chemicals industries. As the architecture of semiconductors and microelectronics continues to get smaller, it also become sensitive to smaller amounts of contaminants. The 8800 is able to monitor the increased purity of such chemicals. Configured as an LC-ICP-MS, the system can provide improved detection limits for sulfur- and phosphorous-containing compounds.

The launch is also significant in that Agilent has more than a quarter of the ICP-MS market share. With a price of over $300,000, the 8800 is more expensive than a quadrupole ICP-MS, which averages less than $200,000. However, the new system is more capable and is likely to create a new market segment. The 8800 ICP-MS will begin shipping in June.

NEW



4100 MP-AES Spectrometer (Microwave Plasma-Atomic Emission Spectrometry)

NEW

Multi-element analysis with fast sequential measurement

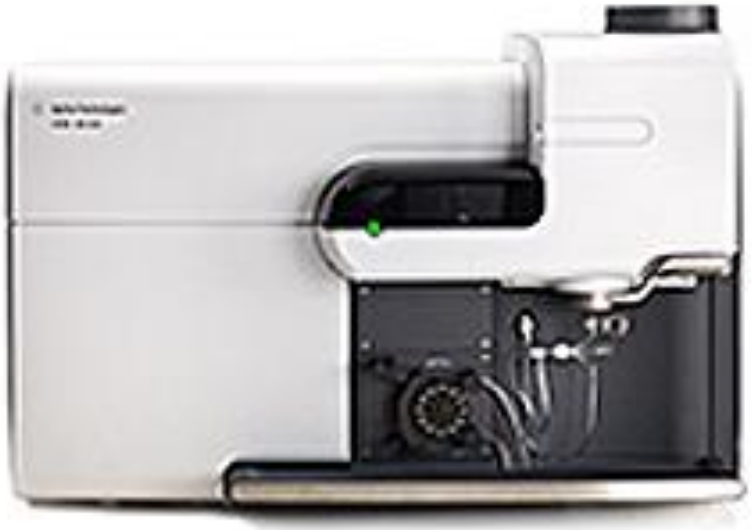
Lowest cost of ownership — the Agilent 4100 MP-AES runs unattended without flammable or expensive gas supply, dramatically reducing your operating costs

High-performance — magnetically excited microwave plasma source provides sensitivity, linear dynamic range, detection limits and analysis speed superior to flame AA

Ease of use — application-specific software applets plus plug-and-play hardware ensure any user can set up quickly without method development or alignment, and with minimal training

Improved laboratory safety — in addition to eliminating flammable and oxidizing gases, the 4100 MP-AES eliminates the need to plumb multiple gases into the laboratory, or manually transport and handle gas cylinders

Robust and reliable — ideal for industries such as mining, food and agriculture, chemicals, petrochemicals, and manufacturing, and for remote locations



7200 Q-TOF for GC/MS

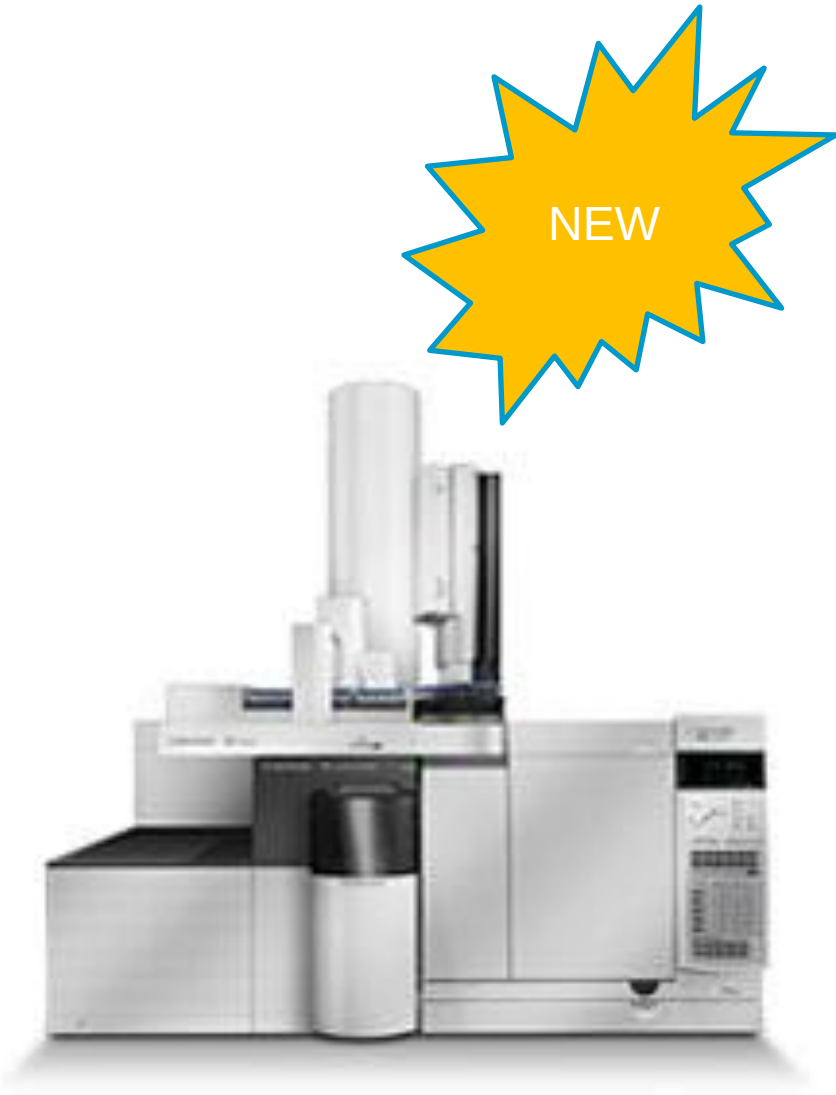
Highly accurate mass assignments: The Agilent 7200 GC/MS Q-TOF uses dual gain amplifiers with dual analog-to-digital (ADC) detection to record multiple events over a wide mass range and dynamic range of concentrations.

A high sampling rate (32 Gbit/s): 4 GHz ADC electronics improve resolution, mass accuracy, and sensitivity for low-abundance samples.

24/7 mass accuracy: Our proprietary INVAR flight tube, sealed in a vacuum-insulated shell, stabilizes mass calibration against thermal change.

Fast, high-quality MS/MS spectra: Ions are accelerated in Agilent's unique hexapole collision cell.

Fast routine maintenance: Removable ion source for rapid changing of the entire ion source, lens and filaments without venting the high vacuum mass analyzer.



AssayMAP Bravo Platform

Solution for quantitative, microscale protein sample preparation and assay.

- A sample prep front end for the analysis of biologics by our core products.
- Enables **true chromatography on micro scale.**

Enables applications ***for biologics discovery & development***:

– ***Protein/peptide, Ab capture and purification***

– ***mAb titer/characterization*** for bioprocess development;

- ***Total solution <u>from Agilent</u>!*** – HW, SW, cartridge consumable, support, and service.

NEW