



Agilent AA, MP-AES, ICP-OES, ICP-MS, ICP-QQQ

# LEADING THE WAY IN ATOMIC SPECTROSCOPY INNOVATION

The Measure of Confidence



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Agilent's portfolio offers you the most diverse application coverage, while our unique MP-AES and ICP-QQQ technologies deliver new possibilities for your lab. Choose Agilent, together we'll take the path to success.

# LEADING TOGETHER



## AA

### Atomic Absorption Spectroscopy

Agilent's comprehensive range of AA spectrometers is productive, user-friendly and exceptionally reliable.

**Fast analysis** – the Agilent 240FS and 280FS are the world's fastest and most productive flame AA systems, with unique Fast Sequential capabilities ensuring high performance and lower running costs

**Sensitive furnace AA** – the Agilent 240Z and 280Z Zeeman Graphite Furnace AA systems are productive and precise, providing superior furnace performance and accurate background correction to eliminate interferences

**Rugged and reliable** – the Agilent 55B AA standalone instrument is ideal for remote sites and harsh environments

**Simultaneous flame and furnace** – the unique DUO AA configurations double your productivity by allowing flame and furnace operation at the same time, without change-over delays

For further details refer to: Agilent 55B AA Spectrometer brochure, part number: 5990-6617EN and Agilent Atomic Absorption Spectrometers brochure, part number: 5990-6495EN



## MP-AES

### Microwave Plasma-Atomic Emission Spectroscopy

The Agilent 4200 is the next generation of MP-AES technology – designed to handle a wide range of sample types and applications. It will slash your operating costs and make your laboratory safer with elemental analysis that runs on air.

**Lowest cost of ownership** – the 4200 runs unattended without flammable or expensive gas supply, dramatically reducing your operating costs

**Improved laboratory safety** – in addition to eliminating flammable and oxidizing gases, the 4200 eliminates the need to manually transport and handle gas cylinders

**Superior performance** – lower detection limits and wider dynamic range make the 4200 an ideal flame AA alternative

**Ease-of-use** – application-specific software applets and plug-and-play hardware ensure you can set up quickly without method development or alignment, and with minimal training

For further details refer to: Agilent 4200 MP-AES brochure, part number: 5991-3696EN



## ICP-OES

### Inductively Coupled Plasma-Optical Emission Spectroscopy

The Agilent 5100 revolutionizes ICP-OES analysis. With unique Dichroic Spectral Combiner (DSC) technology, you can now run axial and radial view analysis at the same time.

**Save time and money** – run the fastest ICP-OES analysis, using less gas and measure all wavelengths in one measurement

**Uncompromised performance** – measure your toughest samples with a vertical torch and enjoy minimal interferences with a Cooled Cone Interface. Long term analytical stability is achieved by a solid-state RF system that delivers a robust plasma

**Simplify your analysis** – take the guess work out of method development with intuitive ICP Expert software and DSC technology. Powerful software algorithms simplify method development, improve accuracy and extend your measurement range

**Flexible configurations** – the 5100 is available in three configurations: Synchronous Vertical Dual View, Vertical Dual View and Radial View

For further details refer to: Agilent 5100 ICP-OES brochure, part number 5991-4734EN

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## ICP-MS

### Inductively Coupled Plasma-Mass-Spectrometry

The Solution-Ready Agilent 7800 offers a streamlined approach to routine trace metal analysis, without compromising performance

**Simplify common analyses** – Pre-set Methods, auto-optimization tools and pre-defined report templates automate many routine applications and standard operating procedures guide users in system setup and routine operation

**Reduce sample preparation** – high matrix introduction (HMI) technology enables samples with up to 3% dissolved solids to be run directly, usually without the need for matrix matched calibrations

**Ensure accurate data with effective interference removal** – helium (He) collision mode is the only universal cell mode, proven to reduce all common polyatomic interferences under a single consistent set of cell conditions

**Simplify methodology and reduce re-runs** – the wide dynamic range of the detector enables analysis of both trace and major elements in a single run

For further details refer to: Agilent 7800 ICP-MS brochure, part number: 5991-5874EN



The Agilent 7900 offers market-leading performance with the flexibility to address routine and research applications

**Superior matrix tolerance** – a robust plasma and optional Ultra High Matrix Introduction technology enable the measurement of samples containing up to 25% total dissolved solids

**Widest dynamic range** – an orthogonal detector system delivers up to 11 orders of dynamic range – allowing you to measure trace elements and majors in the same run, simplifying method development and virtually eliminating over-range results

**Fast transient signal detection** – high-speed detector electronics (integration times down to 0.1 ms) and integrated nanoparticle analysis software (for single particles or on-line separation using FFF) make characterizing nanomaterials routine

**Flexibility** – ICP-MS MassHunter software features automated system optimization and intelligent method setup, and remote monitoring capabilities

For further details refer to: Agilent 7900 ICP-MS brochure, part number: 5991-3719EN



## ICP-QQQ

### Triple Quadrupole ICP-MS

The Agilent 8800 is the world's first and only triple quadrupole ICP-MS – a truly ground-breaking instrument that transforms ICP-MS technology and performance

**Handle difficult samples** – the 8800 has superior matrix tolerance and robustness, combined with the unique interference removal capability of tandem mass spectrometry (MS/MS) – all designed to handle even the most difficult samples and applications

**Unparalleled accuracy** – MS/MS eliminates the variability associated with reaction mode on conventional quadrupole ICP-MS. The result is more accurate and reliable data, regardless of sample type

**Incomparable performance** – the 8800 sets new performance benchmarks in no gas mode and collision mode, and MS/MS gives the 8800 the highest abundance sensitivity ever seen in ICP-MS ( $<10^{-10}$ ), further improving data integrity in high matrix samples

**Total flexibility** – designed to meet the needs of routine laboratories, the 8800 also offers unique MS/MS acquisition modes, making it a perfect research tool

For further details refer to: Agilent 8800 ICP-QQQ brochure, part number: 5991-0079EN

## For more information

Find out how Agilent's Atomic Spectroscopy Solutions can deliver more possibilities for your lab.

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For further details refer to: Agilent Atomic Spectroscopy Supplies brochure, part number: 5991-1060EN

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