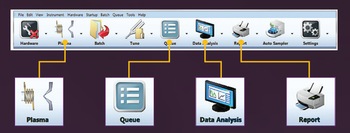
# AGILENT 7900 ICP-MS

## RAISE YOUR EXPECTATIONS WITH THE NEXT GENERATION ICP-MS

Innovative technology and a new MassHunter software platform combine to make the Agilent 7900 the world's most powerful, and most automated quadrupole ICP-MS.

www.agilent.com/chem/7900icpms




### WORLD'S MOST POWERFUL ICP-MS SOFTWARE

With automated system optimization, intelligent method setup, remote monitoring capability and a simplified user interface, Agilent's ICP-MS MassHunter software blends powerful features with unprecedented ease of use.

### SAMPLE INTRODUCTION

The standard low-flow, Peltier-cooled sample introduction system increases operational stability and consistency. The Integrated Sample Introduction System (ISIS 3) adds a piston pump and close-coupled 7-port valve for high-speed discrete sampling.

### ULTRA HIGH MATRIX INTRODUCTION (UHMI)

Increases matrix tolerance up to 25% total dissolved solids (TDS). UHMI also improves plasma robustness, dramatically reducing matrix suppression.

### PLASMA AND SHIELD TORCH SYSTEM (STS)

Provides precise ion energy control, ensuring high sensitivity and effective interference removal in helium mode. The torch auto-aligns with the interface following maintenance.

### INTERFACE AND CONES

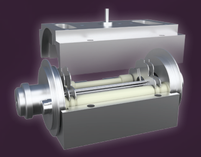
Standard Ni, or optional Pt-tipped cones increase ion transmission and matrix tolerance. Screw-threaded for easy removal during maintenance.


### OFF-AXIS ION LENS

Improves ion transmission across the mass range, *without* the need for mass-specific voltage optimization.

### 4TH-GENERATION OCTOPOLE REACTION SYSTEM (ORS⁴)

Temperature-controlled collision/reaction cell with a new gas controller for fast cell gas switching in less than 3 seconds.



### OCTOPOLE ION GUIDE

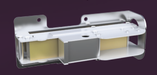
The octopole provides superior interference removal by KED in helium collision mode, and has been field-proven in thousands of Agilent ICP-MS installations.

### HYPERBOLIC QUADRUPOLE

The *only* hyperbolic quadrupole used in ICP-MS. It delivers superior peak separation and abundance sensitivity, without the need for custom quadrupole settings to separate adjacent peaks.

### ORTHOGONAL DETECTOR SYSTEM (ODS)

The ODS delivers higher sensitivity, lower background, and a wider measurement range — up to 11 orders of magnitude from 0.1 cps to 10 Gcps — virtually eliminating over-range results.



### COMPACT BENCHTOP DESIGN

The world's smallest ICP-MS system saves valuable bench space while ensuring easy access for servicing and maintenance.

### 27 MHz PLASMA RF GENERATOR

The fast, frequency-matching RF generator increases the tolerance to changing matrices. Even volatile organic solvents can be introduced without affecting plasma stability.

### VACUUM SYSTEM

A single, high-performance split-flow turbo pump and external rotary pump optimize vacuum in the interface region, increasing sensitivity while improving matrix tolerance.

### AGILENT PARTS AND SUPPLIES

Manufactured to stringent specifications to ensure top quality, and rigorously tested to maximize instrument performance.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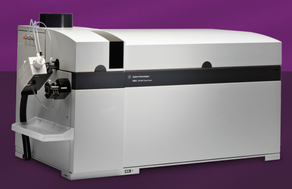
### LEADING THE WAY IN ATOMIC SPECTROSCOPY INNOVATION

www.agilent.com/chem/AtomicSpec

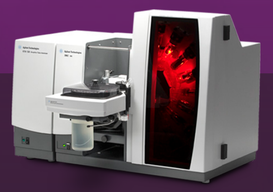


AGILENT ICP-QQQ

AGILENT ICP-MS

AGILENT ICP-OES

AGILENT MP-AES



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