



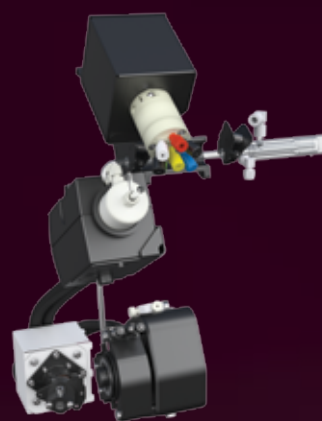
AGILENT 8900 TRIPLE QUADRUPOLE ICP-MS

LEAVE INTERFERENCES BEHIND WITH MS/MS

www.agilent.com/chem/8900icpqqq

SAMPLE INTRODUCTION

Low-flow, Peltier-cooled sample introduction system provides stability and consistency. Optional 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)

UHMI increases matrix tolerance up to 25% total dissolved solids (TDS). UHMI is standard on the 8900 Standard and Advanced Applications configurations, ensuring high matrix samples can be measured routinely, and eliminating matrix suppression.



GAS CONTROL

Four channel argon mass flow control for plasma gases. Advanced and Semiconductor configurations include 5th (option) gas controller and low Si/S argon flow path.

27 MHz PLASMA RF GENERATOR

The fast, frequency-matching RF generator offers the highest power transfer efficiency, tolerating changing sample matrices including volatile organic solvents.

PLASMA AND SHIELD TORCH SYSTEM (STS)

Provides high energy for effective matrix decomposition, and precise ion energy control for efficient interference removal in helium mode. Torch auto-aligns following routine maintenance.

INTERFACE CONES

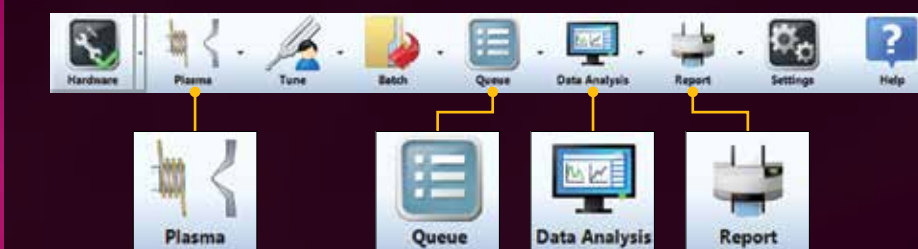
Ni or Pt-tipped cones deliver exceptional matrix tolerance and high sensitivity. Screw-threaded for easy removal during routine maintenance.

ION LENS

The dual Extraction lens and off-axis Omega lens provide high ion transmission and matrix tolerance in a single optimized interface. The ion lens is located outside the high vacuum region, making it easy to access for routine maintenance.

POWERFUL, FLEXIBLE, INTUITIVE 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.



FIRST QUADRUPOLE (Q1)

High frequency, hyperbolic quadrupole. In MS/MS, Q1 rejects all masses except the target analyte mass, simplifying reaction chemistry in the cell.

4TH-GENERATION OCTOPOLE REACTION SYSTEM (ORS⁴)

Temperature-controlled collision/reaction cell with a 4-channel gas controller for flexibility in cell gas methods. Operates in helium (He) mode and also provides effective, consistent control of interferences in reaction mode with MS/MS. Axial acceleration enhances sensitivity and controls creation of high order product ions.



SECOND QUADRUPOLE (Q2)

The second high-frequency hyperbolic quadrupole filters the ions that emerge from the cell exit, passing only the target analyte ions/product ions to the detector.

ELECTRON MULTIPLIER DETECTOR

Dual-mode, discrete dynode electron multiplier provides up to 11 orders dynamic range. Short (0.1 ms) minimum dwell time supports fast-transient signal analysis (optimal for Cap-LC, GC, single nanoparticles (sNP) and laser ablation).

VACUUM SYSTEM

High-performance 4-stage pumping system with one split-flow turbo pump, a second turbo pump and a single external rotary pump. The enhanced vacuum performance contributes to the very high sensitivity and low background of the 8900 ICP-QQQ.



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AGILENT ICP-QQQ



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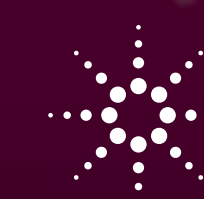
AGILENT ICP-OES



AGILENT MP-AES



AGILENT AA



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Some items shown are optional at additional cost.

This information is subject to change without notice.

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