Media Backgrounder

Agilent 6470B Triple Quadrupole LC/MS

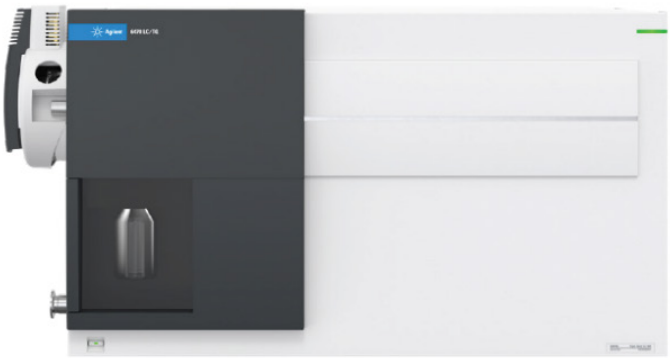
Overview

The Agilent 6470B Triple Quadrupole LC/MS (6470 LC/TQ) is a new, robust mass spectrometer developed to build on the success of the best-selling 6470A LC/TQ, and harmonize the 6470 and 6475 platforms, incorporating much-loved features from each. The rugged and reliable 6470B LC/TQ is non-stop, core, routine research platform due to the improved uptime and maintainability provided by VacShield, meaning more time dedicated to running samples, generating meaningful results, and therefore greater lab productivity.

The 6470 LC/TQ is targeted towards the applied and life science markets for routine analysis, and is designed for low level detection of compounds in pharmaceutical, biological, food, environmental and forensic matrices such as drugs and metabolomic markers, pesticides and organic contaminants.

Key uses:

- **High-throughput & high-volume applications** for the applied and life-science markets, allowing customers to carry out a **wide variety of sample analysis**.
- **Low-level detection of compounds** in various sample matrices.
- Ability to carry out **high-throughput screening and low-level quantitation** with the same instrument.



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Key features:

- **VacShield**

  VacShield dramatically reduces maintenance by 92% for this instrument, by allowing the user to easily remove the Ion Injector without venting the MS system. This **reduces the cleaning cycle to approximately 30 minutes compared to at least 6 hours for maintenance** by venting and disassembly. This means the **6470B can be operational much faster than the previous system**.

- **Ultra-robust ion optics rail**

  Greater reliability and system uptime are key components to achieving greater lab productivity and "getting the most" out of an instrument purchase. The 6470B utilizes the same **high-powered ion optics rail** as the 6495C, providing the same sensitivity and mass range, and added "versatility". In addition to workhorse capabilities, this also enables users to venture into more research-oriented applications such as peptides, polymers, and oligonucleotides, or focus on different types or aspects of their analysis.

- **High-speed electronics control**

  Updated electronics provides improved speed and performance to match the most strenuous methods needed to meet customer demands. Customers running a single chromatographic method for multi-residue compound screening of 200+ compounds (Pesticides, Veterinary Drugs, Toxicology, Metabolites, Environmental contaminants, etc.) will see greater **data fidelity, reproducibility, and sensitivity**.

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