

Unbelievably Robust, Remarkably Versatile

Agilent 6470B triple quadrupole LC/MS





Proven Reliability for All Your Applications, from Routine to Research

In the lab, you face consistent pressure to do more with less while trying to keep up with a growing workload. Success means having instruments that you can rely on to overcome diverse challenges.

The Agilent 6470B LC/TQ—the latest version of our trusted workhorse—gives you the versatility and robustness you need to handle a breadth of applications. With its proven performance, backed by numerous peer-reviewed articles, the 6470B LC/TQ is an instrument you can trust to meet your evolving needs, every day. Plus, with new productivity-boosting enhancements, the 6470B LC/TQ suits your current and future needs for sensitivity and throughput.



Couple the 6470B LC/TQ with the 1290 Infinity II LC to achieve the lowest detection limits possible for day-to-day analysis or research-oriented applications.



Reduce Maintenance Time by 92% with VacShield

Maintaining your LC/TQ has never been so easy. VacShield lets you remove the capillary and run the cleaning cycle in at least 30 minutes—compared to at least 6 hours for maintenance by venting and disassembly. So you can gain back valuable lab time and keep up with high demands.

Procedure	Time Without VacShield (min.)	Time With VacShield (min.)
Cool down to acceptable temperature	15	Not needed
Break vacuum and leak air into the instrument	15	Not needed
Remove and clean ion injector capillary	20	20
Power on and pump down	300 (5 hours)	Not needed
Check tune or autotune instrument	10 (Check tune) 45 (Autotune)	10 (Check tune) 45 (Autotune)
Total	360 to 395 (6.0 - 6.6 hours)	30-65 (0.5-1.1 hours)

More Flexibility to Ionize Any Kind of Sample

The ability to analyze any application is enhanced with a wide choice of ion sources. Our extensive ion source portfolio lets you choose the ideal match for your specific application.



Electrospray ionization (ESI)

Analyze a broad array of molecules in concentration-dependent manner. Suitable for standard flow, capillary flow, and nanoflow regimes.



Agilent Jet Stream (AJS)

Drastically increase ion formation by enhanced droplet desolvation with the aid of superheated nitrogen sheath gas for ultrahigh sensitivity.



Atmospheric pressure chemical ionization (APCI)

When you complement your standard electrospray analysis with APCI, you can detect difficult to ionize polar and nonpolar analytes.

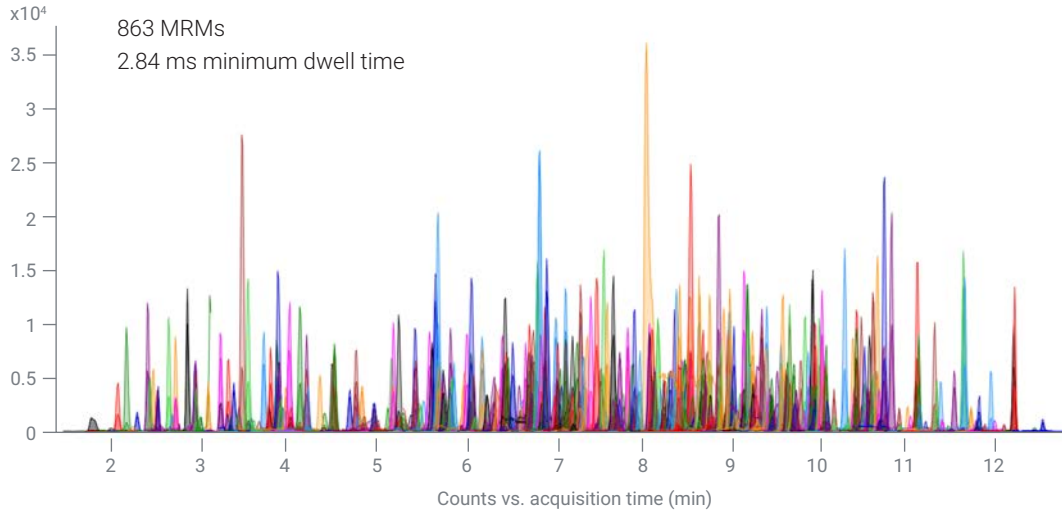


Multimode inlet (MMI)

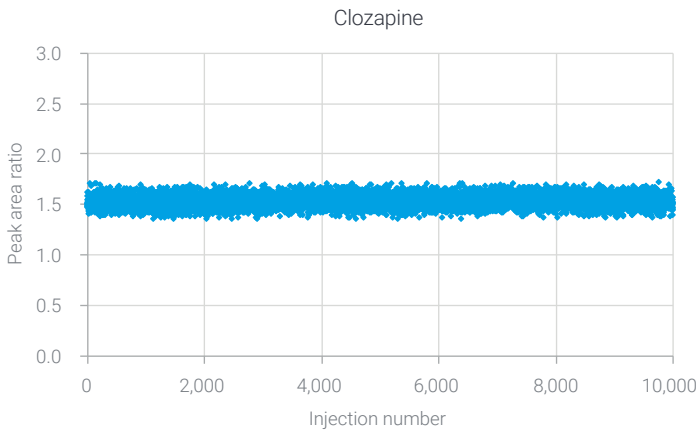
Increase signal-to-noise ratios in cold splitless mode with our programmable temperature-vaporizing inlet.

Reputations Are Made on Rock-Solid Performance

From analyzing environmental contaminants to ensuring food safety, your demands for reliable, accurate results have never been greater. The 6470B LC/TQ gives you the peace of mind that you are delivering on your promises.



Capability and performance: Chromatogram of more than 400 pesticides in a single run. Pesticides were spiked into green tea at a concentration of 1.6 ppb.



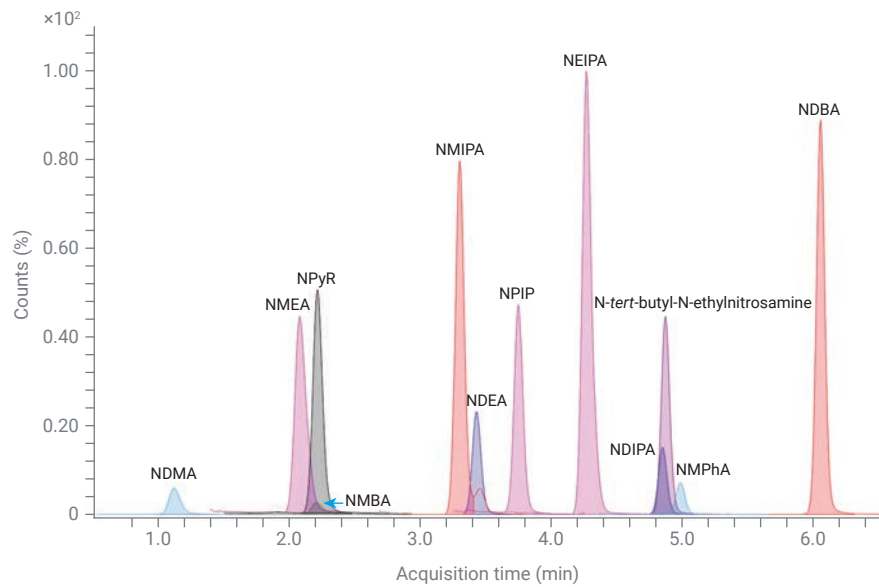
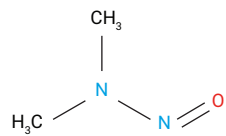
Confirmed robustness: The test data shown here was collected over more than 1,000 injections.



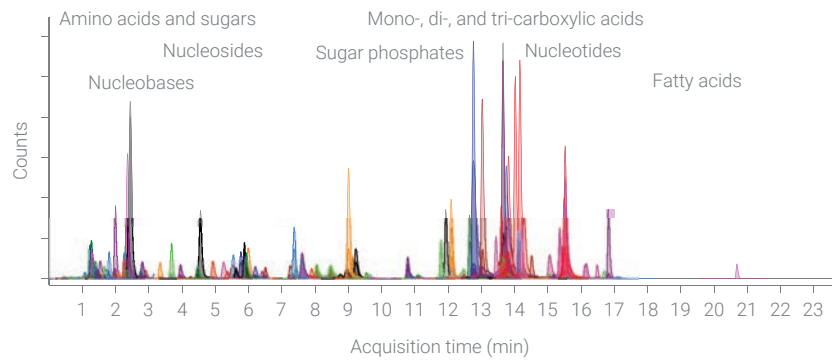
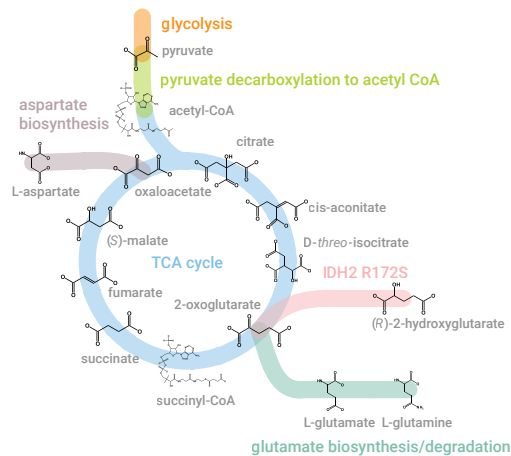
Rigorous data: This calibration curve represents data collected over six orders of linear dynamic range.

Make Critical Decisions with Confidence

Your complex life science research requires efficiency and reliable answers, and the 6470B LC/TQ has you covered. Whether you're performing pharma/biopharma applications or metabolomics research, you'll get results you can count on—including results that must meet compliance standards.



Confidently detect and quantitate confirmed and potential mutagenic impurities far below the required regulatory limits.



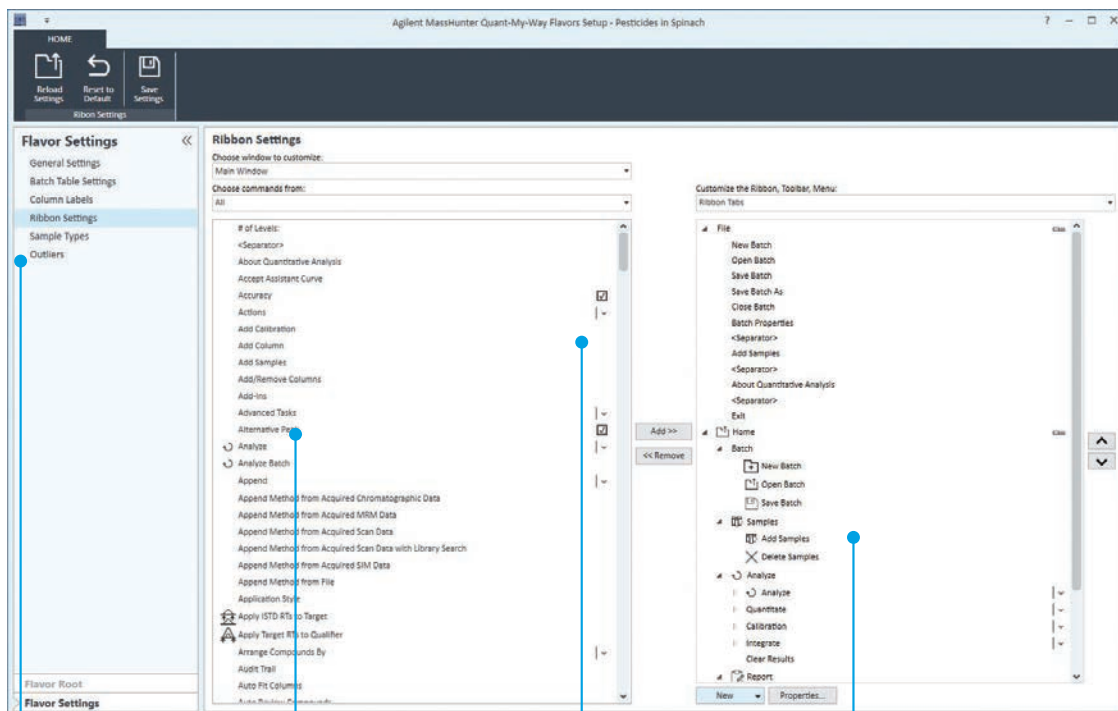
Enhance your understanding of metabolic pathways by measuring key target metabolites.

Shorten Your Time from Analysis to Reporting

Simplify and personalize your MassHunter quantitation with Quant-My-Way

Analyze complex samples—including environmental and food matrices—with compound-based workflows that combine MassHunter Quantitative Analysis with Quant-My-Way customization.

You can even create your own streamlined version with tools that highlight only the capabilities of interest.



Hide features you don't need for your specific workflow.

Highlight the features you do need as you analyze the data acquired on the 6470B.

Stop wading through functions to find the necessary calculations.

Save hours of sample processing time each week.

Reduce regulatory costs and risks

Agilent MassHunter software for LC/MS supports Title 21 CFR Part 11 and Annex 11 compliance, so you can reduce the risk of regulatory audits. We can also help you strengthen your compliance efforts with Agilent CrossLab compliance services, which include automation technologies.

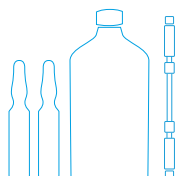
Maximize productivity for veterinary drugs in food

Adding a new method to your laboratory, or updating an existing one, can be challenging and time consuming. But it doesn't need to be.

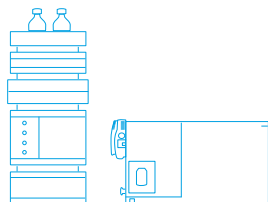
The Agilent multiclass veterinary drugs workflow helps you simplify laboratory operations and combine multiple food matrices analyses into a single, easy-to-follow protocol.



Sample prep
and containment



Chemical standards
and supplies



Analysis



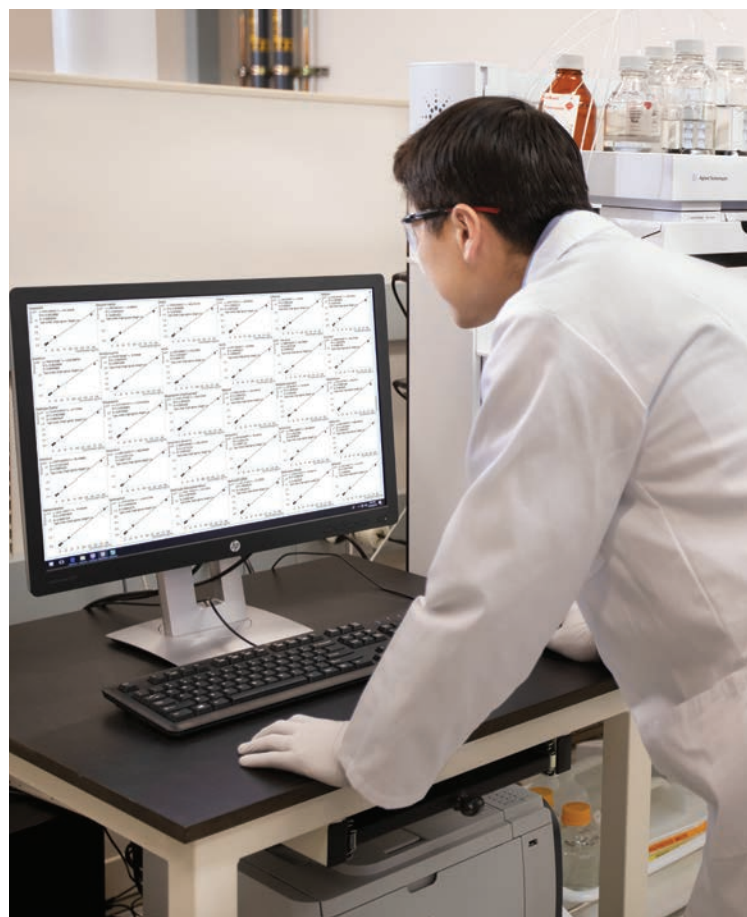
Data processing
and reporting



Application
services

Develop methods quickly using professionally curated MRM databases

Eliminate the need to build your method from scratch. With Agilent's application-focused MRM databases, you can easily import professionally curated and pre-optimized analyte MRM. This allows you to easily build a complex analysis method in a matter of minutes.



A Complete LC/MS Workflow from One Trusted Partner

Maximize your LC/MS efficiency with our InfinityLab solutions. Agilent InfinityLab LC instruments, columns, and supplies complete your LC/MS workflow to deliver rugged quality and robust analytical results. InfinityLab solutions are designed to work together to provide efficiency gains that help you get more done and reduce operation costs.

InfinityLab LC instruments

From routine analysis to cutting-edge research, the Agilent InfinityLab LC Series offers a choice of HPLC and UHPLC systems to suit your application and budget.

InfinityLab LC columns

With three particle sizes and 18 different chemistries, Agilent InfinityLab Poroshell 120 LC columns provide a range of selectivity that makes your method development fast and easy.

InfinityLab LC supplies

The “small” parts of your workflow can make a big difference in the quality of your results. Agilent InfinityLab supplies are designed to make your daily tasks more efficient.





An Extensive Portfolio of Triple Quadrupole LC/MS

Our triple quadrupole LC/MS family brings powerful analytical capability to a wide range of applications. These solutions provide the capabilities and performance to solve virtually any analytical challenge.



Agilent Ultivo LC/TQ

This stackable LC/TQ saves you bench space while maintaining powerful performance.



Agilent 6470 LC/TQ

Well-known for robustness with the versatility to analyze a wide array of applications.



Agilent 6495 LC/TQ

An ultrahigh-sensitivity LC/MS with the reliability for your most demanding challenges.

Agilent CrossLab services

CrossLab is an Agilent capability that integrates services and consumables to support workflow success and important outcomes like improved productivity and operational efficiency. Through CrossLab, Agilent strives to provide insight in every interaction to help you achieve your goals. CrossLab offers method optimization, flexible service plans, and training for all skill levels. We have many other products and services to help you manage your instruments and your lab for best performance.

Learn more about Agilent CrossLab, and see examples of insight that leads to great outcomes, at www.agilent.com/crosslab

Learn more:

www.agilent.com/chem/6470B

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