Agilent

Trusted Answers

Reliable LC/MS Workflows Accessible for All Levels of MS Users

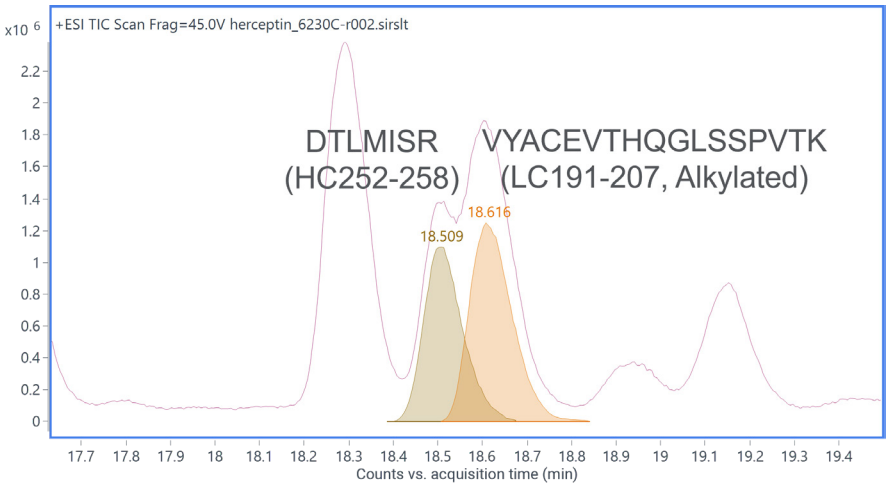
Agilent 6230C Time-of-Flight LC/MS system

It’s Time for More Specific Detection. It’s Time for Time-of-Flight LC/MS.

Screening samples by LC methods enables rapid compound detection. With UV and quadrupole MS detection, great insights on mixture compositions can be achieved. When the need arises for even more selectivity, accessible accurate mass measurement with a time-of-flight detector delivers enhanced identification and confidence.

The Agilent 6230C LC/TOF system is a high-performance, robust, and easy-to-use mass spectrometry solution designed to support many applications. With high resolution, wide coverage up to *m/z* 20,000, accurate mass, and fast data acquisition, it delivers the data quality you require for confident identification and monitoring of sample components.

Overlapped EICs

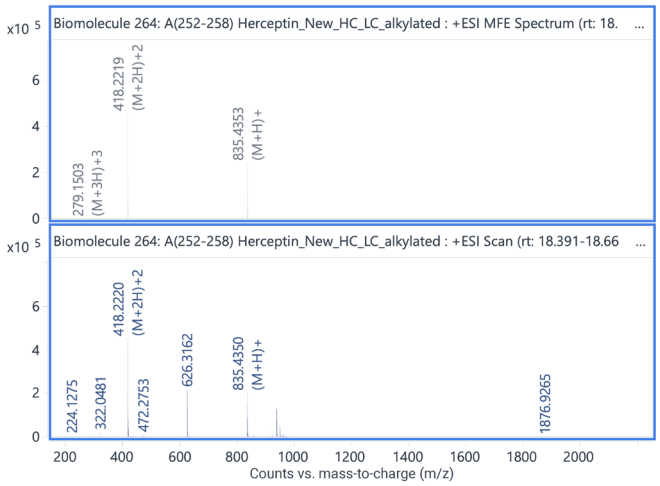


While LC/UV and nominal mass detectors cannot distinguish between coeluting compounds that lack UV absorbency or have very similar masses, the high resolving power and mass accuracy of LC/TOF allows analysts to deconvolute overlapping signals and detect minor components that may be hidden under larger UV peaks. Achieve greater specificity and confidence in resolving complex or coeluting mixtures with the 6230C LC/TOF.

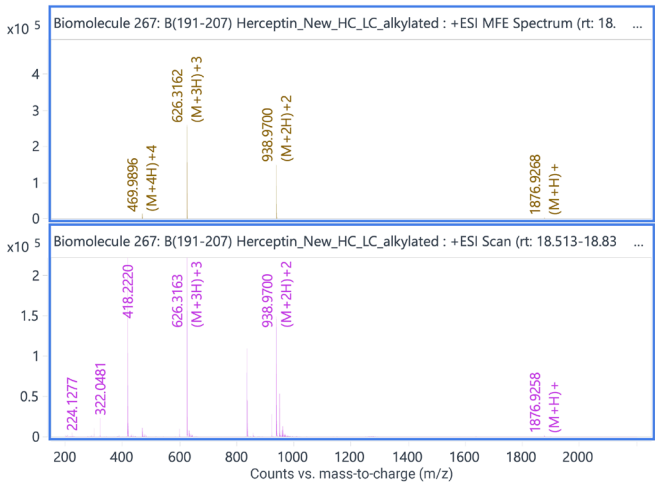
Go one step further with LC/TOF

Obtain accurate mass information to help you identify the compounds you detect.

DTLMISR (HC252-258), RT 18.509



VYACEVTHQGLSSPVTK (LC191-207, Alkylated): RT 18.616



Seamless LC/MS with less maintenance

Deliver Better Results—with Confidence

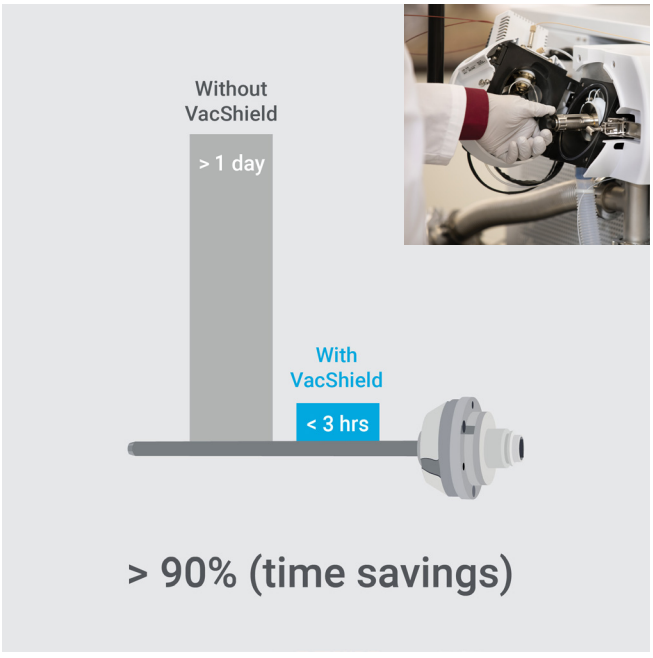
High-resolution mass detection made easier

High-quality mass information accessible to chromatographers

The high-resolution 6230C LC/TOF integrates effortlessly with LC workflows, creating a unified platform for confident, accurate analyses. Its seamless connection to the Agilent Infinity III LC Series and Agilent MassHunter or Agilent OpenLab CDS software ensures robust chromatographic performance—delivering precise mass accuracy and selectivity.

No-hassle maintenance with VacShield

Your time matters. Agilent VacShield technology transforms ion injector maintenance from a day-long disruption into a predictable, approximately one to three hour task—dramatically reducing downtime and energy use—so your lab can keep moving.



MassHunter software

Streamline Data Acquisition, Quantitation, and Screening Workflows

The Agilent MassHunter software suite is designed for labs requiring advanced and specialized LC/MS workflows in complex research applications.

MassHunter acquisition software for LC/MS

From instrument calibration and method development, to compound optimization and automation, intuitive, easy-to-use Agilent MassHunter acquisition software for LC/MS systems gives you flexibility and delivers accurate answers quickly. Eco Standby mode enhances your lab's sustainability by reducing gas and energy consumption when the system is not in use.

MassHunter Quantitative Analysis software

With Agilent MassHunter Quantitative Analysis software, you can generate the quantitative answers you need while preserving the integrity of your data. Simplify compound identification and quantitation, from small to large target lists.

Features include:

- Built-in workflow templates
- Rich data visualization
- Compliance-ready controls
- Customizable data review panels

MassHunter Qualitative Analysis software

Agilent MassHunter Qualitative Analysis software offers the built-in simplicity and usability you need to support your nontargeted workflows.

Features include:

- Instant access to accurate mass MS/MS fragmentation
- Searches against curated or custom databases
- Industry-standard data export to third-party software

MassHunter BioConfirm software

Agilent MassHunter BioConfirm software is ideal for intact protein analysis, oligonucleotide characterization, peptide mapping, and glycan profiling, enabling routine characterization through easy-to-use workflows. BioConfirm is also required for deconvolution of TOF data.

Features include:

- Confident biomolecule sequence confirmation
- Rapid deconvolution of intact biomolecule data
- Secure, auditable analysis

Agilent MassHunter WalkUp software

With Agilent MassHunter WalkUp software, you can submit your samples and receive the report in four easy steps:

1. Log in
2. Select method
3. Load sample
4. Receive report

The software adds the sample to the queue, performs the analysis, and sends a report to the user. WalkUp software also indicates whether the system has detected the compound of interest—and if so, delivers a purity estimate. Reports can also be customized to include extra information.

Applications: intact protein analysis

Accurate and Reproducible Intact Protein and Subunit Analysis

High-resolution LC/MS is central for comprehensive characterization of biopharmaceuticals. High-resolution TOF mass measurements can rapidly and accurately assess post-translational modifications (PTMs), antibody-drug conjugates (ADCs), mAb sequence variations, impurities, and degradation products.

With the Agilent 1290 Infinity III bio LC, 6230C LC/TOF, and MassHunter software, you can confidently characterize intact proteins and accelerate data analysis across applications.

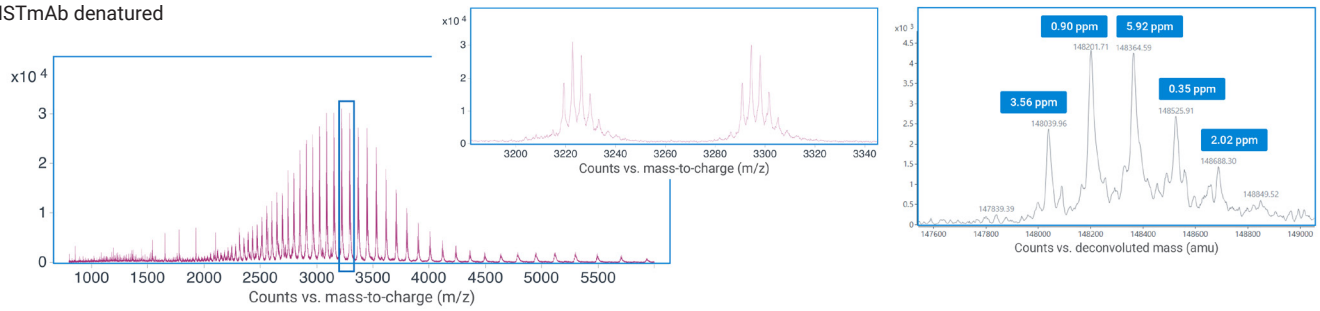
ADC analysis

Automated drug-to-antibody (DAR) determination using MassHunter DAR calculation software enables both experts and nonexperts to extract critical, meaningful insights.

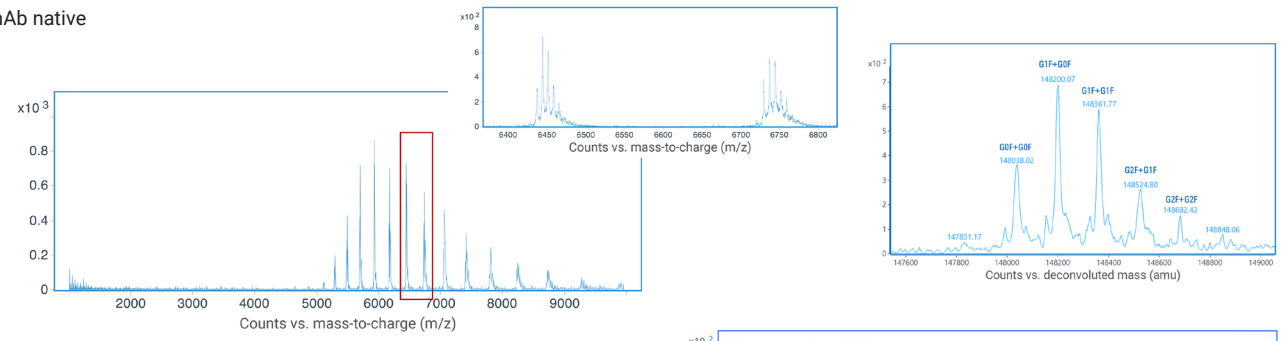
Glycoform analysis

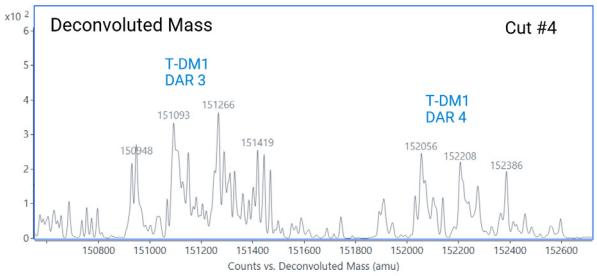
Accurate mass and high-resolution TOF performance support comprehensive glycoform characterization, strengthening glycan profiling across development, manufacturing, and QC for quality and timely product release.

NISTmAb denatured



NISTmAb native

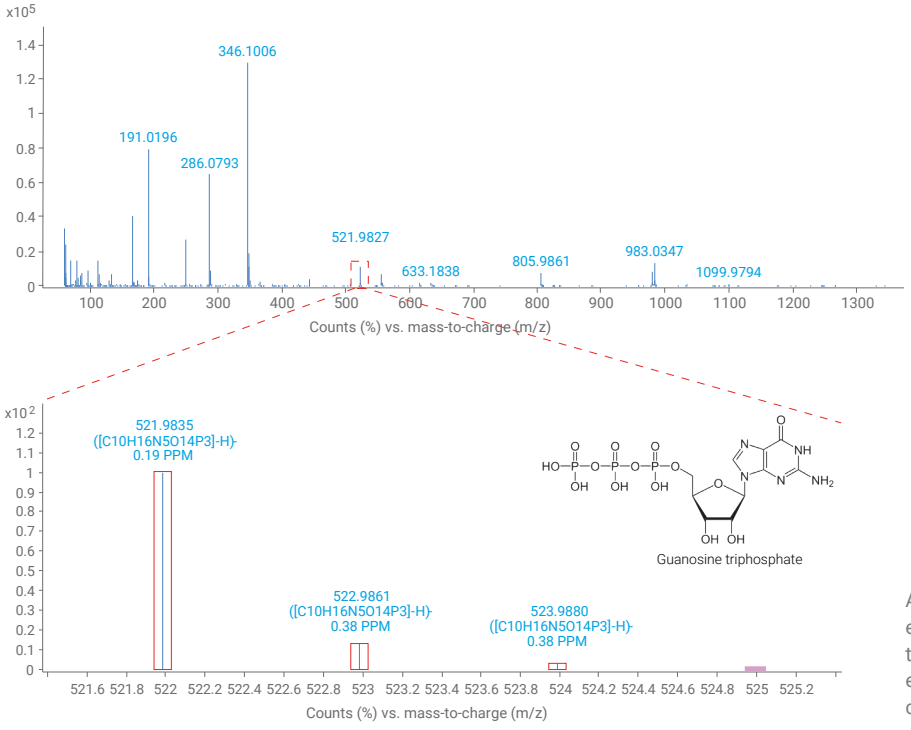




2D-LC/TOF analysis of intact native T-DM1 in neat plasma using high resolution heart cutting technology.

Detect the Unexpected —Even at Trace Levels

With different ion sources to analyze compounds of differing polarities and weights, the 6230C LC/TOF offers the full-spectrum sensitivity needed for challenging detection limits. Available ion sources include electrospray ionization (Dual ESI), Agilent Jet Stream (Dual AJS), multimode ionization (MMI), and atmospheric pressure chemical ionization (APCI).



A broad in-spectrum dynamic range ensures accurate detection of trace-level analytes and their isotopes—even in the presence of abundant coeluting compounds.

OpenLab CDS

Workflows Ready for Your QC Lab—OpenLab CDS

Take control of data integrity and compliance

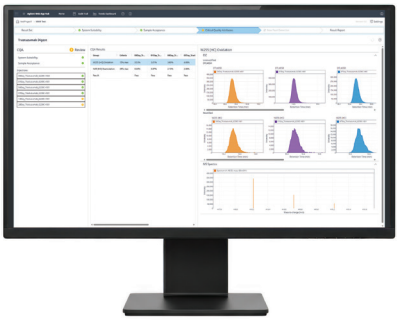
Agilent OpenLab CDS software unifies instrument control, secure data management, and standardized workflows—delivering the technical controls needed to support compliant multi-attribute method (MAM) analysis in biopharma QC while reducing complexity and training demands.

OpenLab CDS client/server is required for MAM analysis.

Unlock a range of benefits, including:
Agilent Auto Acquire: accelerates MS acquisition method setup by automatically setting optimized instrument parameters
Agilent Intelligent System Emulation technology: enables the emulation of other LC instruments, including non-Agilent systems, for smoother method transfers
Data integrity technical controls: supports secure data management with e-signatures, audit trails, role-based access, and system validation—reducing manual, error-prone processes while maintaining secure, audit-ready data
Extensive learning tools: support user success with a wide range of learning resources—including online help and learning, self-guided tutorials, the Agilent Community, and Agilent University

Be ready to adopt MAM with an integrated solution

The Agilent MAM solution streamlines method transfer from R&D into regulated QC environments. This USP <1060>-aligned solution combines intuitive Agilent MAM for OpenLab CDS software with powerful LC/MS on the Agilent Infinity III bio LC system and 6230C LC/TOF. A step-by-step, guided user interface simplifies complex workflows, reducing training time and minimizing human error. Easy-to-read pass/fail results eliminate the guesswork—so you can focus on the data that truly matters.



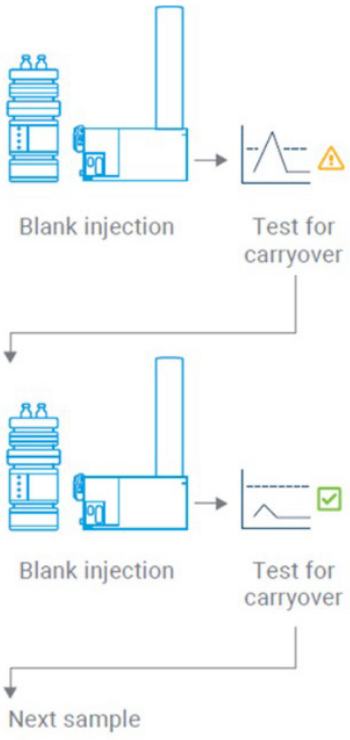
Instrument intelligence

Smarter Workflows with Intelligent Reflex

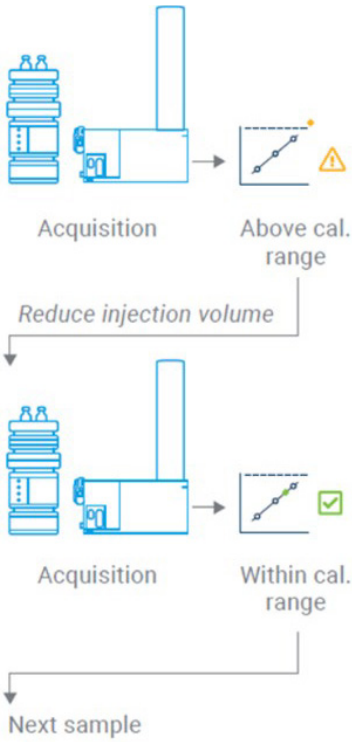
Intelligent reflex is a data-dependent worklist reinjection algorithm that enhances data quality in real time and dramatically speeds up sample analysis throughput with several logic-based workflows. Samples are automatically reinjected based on answers provided by quantitative MS data analysis software.

Intelligent reflex workflows can be set up on either a per-method or per-worklist basis.

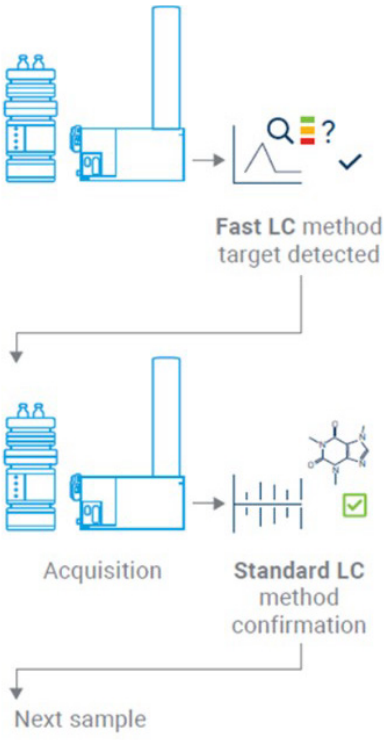
Carryover



Above calibration



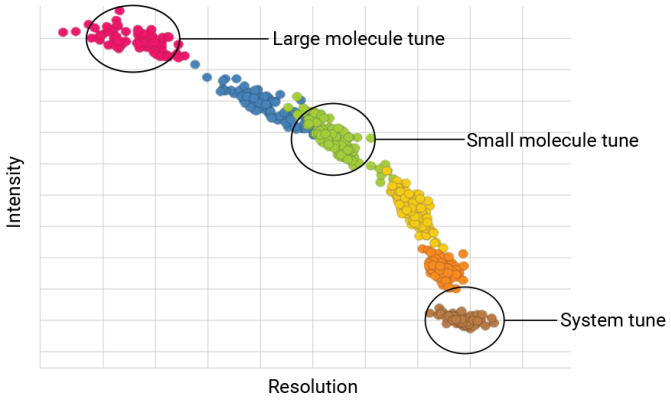
Fast LC



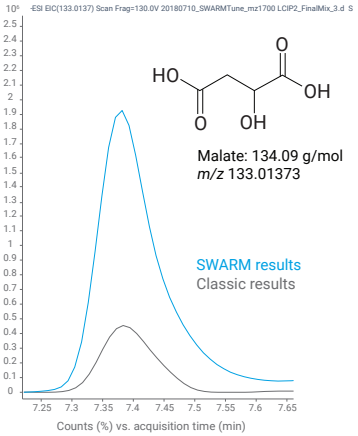
Rapid Instrument Insights

Find the best parameters faster—SWARM autotune

AI-based Agilent SWARM autotune delivers expert, application-specific results every time with Agilent LC/MS instruments. By combining aspects of the particle swarm optimization algorithm with the speed of the simplex algorithm, SWARM autotune identifies optimal parameters faster.



Resolution-intensity plot highlighting tune modes for large molecules, small molecules, and system-level calibration.



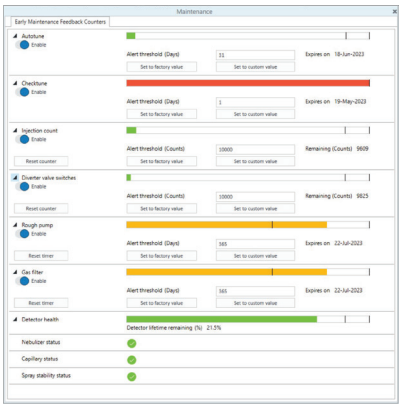
Comparison between classic and SWARM tuning results for the low-mass metabolite malate.

Monitor your system in real time—early maintenance feedback

Early maintenance feedback (EMF) proactively monitors key system metrics, providing clear visibility into instrument status and health to identify issues early and reduce downtime.

InfinityLab Level Sensing

Integrated with OpenLab CDS, Agilent InfinityLab Level Sensing automates solvent level monitoring on your HPLC system through accurate, weight-based measurements—preventing the system from running dry to avoid costly reruns or damage while supporting continuous workflows.



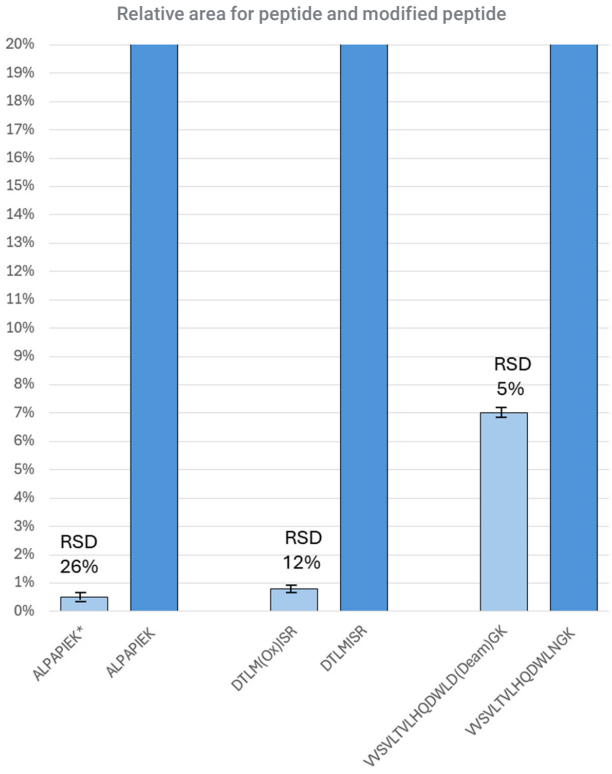
The health of your LC/MS system in one easy-to-read EMF dashboard.

Powerful Performance for Powerful Results

6230C TOF LC/MS system measures and specifications

Parameter	Measure	Specification
Spectral Acquisition Rate, MS Mode	Spectral acquisition from *m/z* 100 to 3,200	30 spectra/second
Dynamic Range	In-scan dynamic range on coeluting components	Up to 5 orders
Mass Range	High-mass stable acquisition mode	*m/z* 25 to 20,000
Polarity Switching	Positive/negative switching	2 Hz

For analysis of main components and low-abundance compounds, the 6230C LC/TOF system demonstrates a mass accuracy of **< 1 ppm**, enabling confident identification—even in complex matrices. Its high dynamic range and sensitivity support precise quantitation of both trace-level impurities and major constituents within a single analysis.



6230C LC/TOF enables precise quantitation of sub-1% impurities

Complete workflow and support

End-to-End Workflow Solutions

Agilent supports your workflows with precisely matched consumables and supplies for optimal LC/MS performance.

InfinityLab solvents for UHPLC and LC/MS

Expertly formulated Agilent InfinityLab solvents for analytical applications shield against common contaminants—ensuring optimal performance and minimizing the risk of costly downtime and repairs.

LC columns

A wide selection of Agilent columns are available to match your large or small molecule applications.

LC/MS supplies

The small parts of the workflow can make a big difference in the quality of your results. Agilent InfinityLab LC and LC/MS supplies are designed to enhance the efficiency and ease of your daily tasks.

Quiet Cover

A pump acoustic enclosure provides a quieter lab environment by containing pump noise inside a sound-absorbing cabinet. Fan-controlled temperature and an audible temperature limit alarm help to reduce pump downtime. The easy-to-open cover enables the cleanup of spills, as well as quick oil changes and oil additions. An oil-free dry pump is also available.

Complete workflow and support

Expert Support at Every Step of Your Workflow

CrossLab—expert support to amplify your success

Agilent CrossLab integrates services and consumables to support workflow success, improve productivity, and enhance operational efficiency. In every interaction, we strive to deliver insights that help you achieve your goals.

Benefit from a range of products and services—from method optimization, troubleshooting, and training to full-lab relocations and operations analytics—all designed to help you manage your instruments and lab for optimal performance. For enhanced connectivity across your lab, Agilent CrossLab connect provides a suite of digital capabilities and proven lab operation approaches that accelerate performance with control over all scientific assets.

Connect with us

Virtual tech support

CrossLab service plans enable customers to get live technical help. Our **Virtual Assist** application uses a secure connection and supports digital annotations, enabling clear instructions for remote problem solving to reduce your downtime.

Agilent learning services

Having productivity challenges? Agilent can help you optimize your method, train new staff, and bolster troubleshooting abilities with method consulting and **education services**.

Service plans

Agilent CrossLab **service plans** provide comprehensive, customizable coverage to suit your specific needs and budget. We offer a range of service plans so that you can choose the level of coverage desired.

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