

# X500 QTOF Platform: Streamlined for Productivity

## Learn the Top 5 Technology

## Advancements of the Accurate Mass X500 QTOF System

X500 QTOF  
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The X500 Series QTOF Systems were engineered with ease-of-use and simplicity in mind. Explore the technological advances that give this system the performance edge, while still being the smallest HRMS system on the market.

### 1. Legendary Ionization

Renowned Turbo V™ Source provides efficient ion production while limiting contamination for maximum robustness



Point-and-click SCIEX OS acquisition software makes set-up and running easy and accessible to all skill levels



### 2. Simplicity in Operation

Designed to deliver optimal performance through adjustment of only two voltage variables



### 3. Service Accessibility

QJet® Ion Guide and ion optics improve sensitivity and ion capture rates, while giving easy access for expedited maintenance

### 4. Workflow Versatility

Ability to perform IDA, SWATH® Acquisition, MRM<sup>HR</sup>, and TOF-MS on a single system for ultimate workflow flexibility



### 5. Stability and Robustness

N-optic design with heated TOF path and 6 drone heaters give optimal mass accuracy and resolution

X500B version is enhanced with additional vacuum capabilities for improved resolution of large intact proteins, such as antibodies and antibody drug conjugates



Condensed data file sizes simplifies and streamlines data storage and portability, without losses in data quality, completeness, or security

# Easy to Learn, Compact and Robust

Discovery the Benefits of the

X500 QTOF System Technology for These Selected Application Areas

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## X500R QTOF System



### Food Testing

Confidently detect and quantify the analytes your high throughput laboratory needs in the most challenging of food testing matrices.

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### Forensics

Test for the forensic drugs of today and be prepared to detect the novel psychoactives of tomorrow by using SWATH® and MRM<sup>HR</sup> workflows.

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### Environment Testing

Identify persistent and emerging contaminants of concern at trace levels using accurate mass.

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### Routine Drug Metabolism

Simplified high-throughput MetID analyses for both small and large therapeutics, with maximal robustness for increased uptime.

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### Metabolomics

Identify and quantify large numbers of metabolites on a routine basis, with performance for high quality metabolic profiling in a simple guided workflow that delivers biological insights fast.

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## X500B QTOF System



### Biologics Intact Mass Analysis

See both major and minor isoforms of your intact biotherapeutic with accurate mass assignments and maximized robustness and stability over time.

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### Biologics Subunit Analysis

Confidently determine glycans, post-translational modifications, or C-terminal clipping by performing high-quality subunit mass analysis.

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### Biologics Peptide Mapping

Using unbiased and high speed SWATH® Acquisition obtain comprehensive high-resolution MS and MS/MS peptide mapping data, allowing for detection of low abundance peptides and PTMs.

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### Antibody Drug Conjugate Analysis

Confidently identify drug load and drug-to-antibody ratio for even very large ADC molecules with the accuracy of the high-resolution TOF mass analyzer.

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High-Resolution Accurate Mass Spectrometry Made Simple with the X500 QTOF Platform and Intuitive SCIEX OS Software Interface