

# Extreme quantitative value with unprecedented ease





### **Unsurpassed value**

From forensic toxicology to environmental analysis to pharmaceutical research, a constant in almost every field is the need for greater productivity; to quantify more samples in less time with greater reliability and confidence, and to do it all on ever tighter budgets. The Thermo Scientific™ Endura™ triple-stage quadrupole mass spectrometer meets these needs with unsurpassed value. It delivers best-in-class sensitivity run-after-run and day-after-day regardless of sample type or matrix, and does so with an ease-of-use that takes the worry out of method development and operation.

#### Best-in-class sensitivity

The TSQ Endura mass spectrometer delivers best-in-class, research-level sensitivity and dynamic range, assuring accurate, reliable quantitation of even low-level or difficult-to-analyze samples.

#### Unprecedented usability

New software with a simplified user interface makes this next-generation triple quadrupole easier to use. The drag-and-drop method editor speeds method development. Seamless integration with application-specific software ensures maximum productivity.

#### Ultimate robustness

From an enhanced ion source exhaust port that removes more solvent vapor, to an neutral blocker that keeps the ion optics cleaner, to new electronics that maintain mass accuracy and mass resolution stability, the TSQ Endura mass spectrometer design ensures the same best-in-class performance over hundreds or thousands of samples.





## Economical solutions for clinical research and forensic toxicology

Clinical research and forensic toxicology demand fast, accurate, reproducible quantitative analyses...that don't break the budget. The TSQ Endura MS delivers fast, economical quantitation without compromising sensitivity or reproducibility. Simplified methods make operation straightforward for experts and non-experts alike.

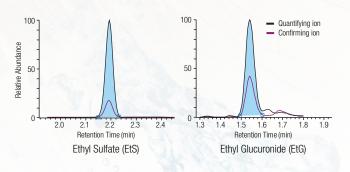
#### Flexible sensitivity for environmental and food safety research

New threats to food safety and the environment emerge every day. The TSQ Endura system makes it easy and practical to keep up with them. A drag-and-drop method editor and close integration with Thermo Scientific™ TraceFinder™ software make development of sensitive, reliable screening and quantitation methods faster and easier than ever before.

### Highly productive pharmaceutical research

Pharmaceutical research demands high productivity with uncompromising performance. The high sensitivity and utter reliability of the TSQ Endura MS make it the perfect instrument for the day-in and day-out quantitation of large numbers of pharmaceutical samples. Thermo Scientific™ LCQUAN™ software provides 21 CFR Part 11-compliant data analysis.





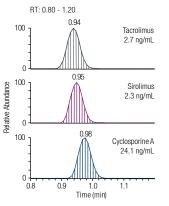
The TSQ Endura system provides sensitive analysis of even difficult-to-analyze samples such as ethyl sulfate and ethyl glucuronide in a urine matrix

## Simplified, integrated software delivers performance with ease

Integral to the TSQ Endura system is entirely new software for method development and instrument operation; software that ensures more performance with less effort. The drag-and-drop method editor simplifies method development and close integration with application-specific software packages ensures seamless, effective operation. TSQ Endura software helps researchers focus on their science instead of their instruments while maintaining the highest levels of productivity.



CLINICAL RESEARCH AND FORENSIC TOXICOLOGY



Quantitative analysis of immunosuppressant drugs with the TSQ Endura MS. %RSD for five injections of three different QC samples show excellent precision across a range of concentrations.

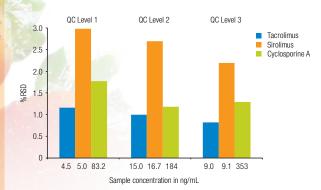


#### TRACEFINDER SOFTWARE

TraceFinder software provides an extensive database of SRM parameters as well as a set of preconfigured but customizable report templates for environmental, food safety, clinical research, and forensic toxicology applications.



ENVIRONMENT
AND FOOD SAFETY





1200 ng/mL shown here

## Innovative design delivers outstanding sensitivity and unsurpassed robustness

#### REDUCED NOISE

Curved ion beam guide stops neutrals and high-velocity clusters with a neutral blocker, keeping the ion optics cleaner, reducing noise, and increasing sensitivity.

#### **ENHANCED SENSITIVITY**

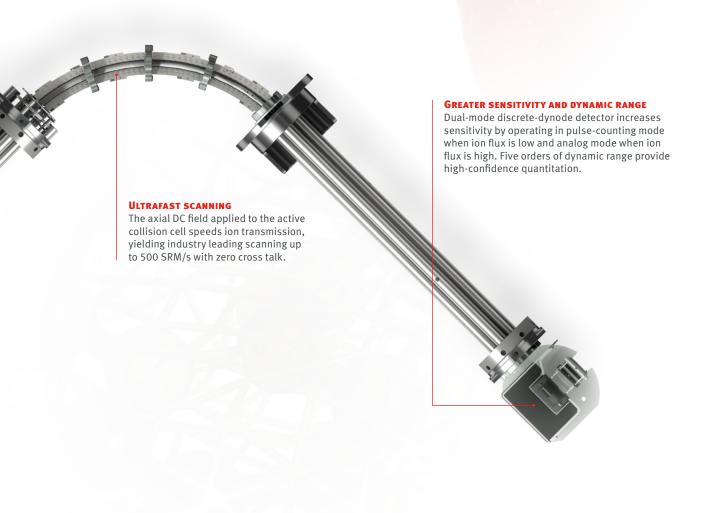
RF-Lens captures and focuses the cloud of ions exiting the capillary and efficiently transfers them into the ion beam guide for enhanced sensitivity.

#### MORE ROBUST OPERATION

An enhanced exhaust port with constant nitrogen flush removes more solvent vapor, reducing baseline noise and increasing uptime.

#### EASIER TO USE

EASY-Max NG ion source makes all gas and electrical connections automatically on installation. It accommodates HESI, APCI, and combined HESI/APCI probes, which can be swapped quickly, without tools.







### Transforming science with the next generation of mass spectrometers

The TSQ Endura mass spectrometer is just one of a family of transformational, next-generation Thermo Scientific mass spectrometers that combine unprecedented performance and usability. Others include:

- Thermo Scientific<sup>™</sup> TSQ Quantiva<sup>™</sup> triple-stage quadrupole mass spectrometer
- Thermo Scientific<sup>™</sup> Orbitrap Fusion<sup>™</sup> Tribrid<sup>™</sup> mass spectrometer

These next-generation instruments are built on a foundation of shared, state-of-the-art hardware and software components. This commonality makes it easier to transfer methods from one instrument to another when research progresses from single-sample-based experiments to validation and high-volume screening or routine quantification.







All of these Thermo Scientific mass spectrometers can be paired with a range of high-performance Thermo Scientific LC systems. Regardless of application, there is an LC that will ensure the highest possible performance.





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