

**FOR IMMEDIATE RELEASE**

Media Contact Information:

Stu Matlow

(408) 965-6408

[stu.matlow@thermofisher.com](mailto:stu.matlow@thermofisher.com)

**Thermo Fisher Scientific Transforms Triple Quadrupole LC-MS with New Levels of Sensitivity, Robustness and Usability**

*New Thermo Scientific TSQ Quantiva LC-MS breaks attogram sensitivity barrier;  
New TSQ Endura LC-MS delivers high sensitivity, extreme uptime*

**MINNEAPOLIS - ASMS 2013** – (June 10, 2013) – Thermo Fisher Scientific Inc., the world leader in serving science, today introduced a new-generation triple quadrupole liquid chromatography-mass spectrometry (LC-MS) platform designed to transform quantitation experiments with extreme sensitivity, productivity, precision and usability.

The platform, which includes the new [Thermo Scientific Quantiva triple-stage quadrupole mass spectrometer](#) and the new [Thermo Scientific Endura triple-stage quadrupole mass spectrometer](#), made its debut at the ASMS Conference on Mass Spectrometry and Allied Topics, being held in Minneapolis from June 9-13 at the Minneapolis Convention Center in **booth 154**.

“Evolving applications continue to push the limits of instrument performance,” said Iain Mylchreest, vice president of research and development, chromatography and mass spectrometry, Thermo Fisher Scientific. “We have created a completely new instrument platform, built from the ground up, to deliver extreme sensitivity and uptime. Equally important is a great user experience, easy method creation and accessible data analysis and review. We believe this is the highest-performing, most-usable triple quad on the market today.”

The TSQ Quantiva triple quadrupole mass spectrometer employs Active Ion Management (AIM) to optimize ion creation and transmission from the source to the detector, resulting in extreme sensitivity. This enhanced level of sensitivity greatly improves results in applications such as peptide quantitation, metabolomics and biopharmaceutical QA/QC compared to previous Thermo Fisher triple quads. In company laboratories, AIM-enhanced systems have measured 70 attograms of verapamil in plasma on column with excellent precision, an unprecedented level of performance.

The TSQ Quantiva MS system is also extremely productive, with the ability to perform 500 SRM experiments per second, and positive/negative polarity switching in 20ms with no signal loss. Productivity is enhanced by a new Ion Beam Guide and Neutral Blocker that helps keep components free of contamination and eases maintenance when it is required. The TSQ Quantiva MS has been shown using synthetic serum stress tests to operate approximately three times longer between maintenance intervals than the company’s previous best systems, without loss of signal.

The TSQ Endura triple quadrupole mass spectrometer shares much of the advanced technology of the TSQ Quantiva MS, but was designed to deliver higher uptime than any competitive triple quadrupole instrument. It was built for workhorse applications requiring trace level quantitation, such as food testing, environmental analysis and pharmaceutical QA/QC.

### **Common Sources and Software**

The TSQ Quantiva MS system uses the same source housings as the company's new Orbitrap Fusion Tribrid LC-MS system, which was also introduced at ASMS. Both are designed for plug-and-play exchange between each other. Gas and electrical connections are made automatically when sources are installed, and ESI, APCI, and nanospray housings and probes are automatically recognized by the system.

The new triple quads share common software with the new Orbitrap Fusion Tribrid system, making it easier to learn and use both systems. Method parameters can automatically pass between systems to support discovery and verification studies employing both instruments.

"Improved usability was a core goal of this project," added Mylchreest. "We know many customers use both our hybrid and our triple quad technologies, and we have created an environment that makes it as easy as possible to leverage both systems in the same laboratory."

To see the entire Thermo Fisher portfolio of new mass spectrometry instruments, software and consumables, visit Thermo Scientific booth 154 or online at [www.thermoscientific.com/asms](http://www.thermoscientific.com/asms) or [www.thermofisher.com/news](http://www.thermofisher.com/news).

### **About Thermo Fisher Scientific**

Thermo Fisher Scientific Inc. is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. With revenues of \$13 billion, we have 39,000 employees and serve customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as in environmental and process control industries. We create value for our key stakeholders through three premier brands, Thermo Scientific, Fisher Scientific and Unity™ Lab Services, which offer a unique combination of innovative technologies, convenient purchasing options and a single solution for laboratory operations management. Our products and services help our customers solve complex analytical challenges, improve patient diagnostics and increase laboratory productivity. Visit <http://www.thermofisher.com>.

###