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Waters sets new standards with Xevo MRT Mass Spectrometer

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The Waters Xevo MRT MS is orderable now for shipment in the second half of 2024



US-based Waters Corporation has unveiled the Xevo MRT, its highest-performing benchtop mass spectrometer (MS), setting new standards for delivering high resolution and speed, critical for large population and epidemiology-type studies.

It builds on the innovative technology pioneered by the Waters SELECT SERIES MRT MS. The new Xevo MRT MS combines the raw power and resolution speed of multi-reflecting time-of-flight (MRT) and hybrid quadrupole time-of-flight (QTof) technologies within a flexible benchtop platform.

The Xevo MRT system delivers a class-leading 100,000 full width half maximum (FWHM) resolution at 100 Hz MS/MS scan speed and <500 parts per billion (ppb) mass accuracy. This enables deeper probing of biologically relevant concentrations with high levels of mass accuracy, independent of acquisition rate.

The innovative multi-reflecting time-of-flight design of the Xevo MRT MS offers scientists the power to work at maximum resolution with high sensitivity and fast data acquisition rates. This helps ensure confident identification of analytes across a range of samples and complex matrices and generate comprehensive and highly accurate mass data for scientific interpretation.

Waters offers complete workflows for metabolomic, lipidomic, and metabolite identification for the Xevo MRT MS, alongside Waters high throughput ACQUITY UPLC Systems and UPLC Column chemistries and waters_connect Software for data acquisition, processing, and reporting. The system supports universal data-sharing via mzML file formats with third-party informatics software, including popular applications from Mass Analytica such as its MARS, Lipostar2, and MassMetaSite software offerings.