



IET | International Equipment Trading, Ltd.

www.IetLtd.com | *Proudly serving laboratories worldwide since 1979*

CALL +847.913.0777 for Refurbished & Certified Lab Equipment

Waters Xevo G2-S ToF Performance Specifications

Xevo® G2-S ToF incorporates StepWave™ ion optics for unsurpassed levels of durable sensitivity and proven quantitative time-of-flight (QuanToF™) and UPLC®/MSE technologies to deliver superior UPLC-compatible mass resolution*, matrix-tolerant dynamic range, quantitative performance, mass accuracy and speed of analysis – simultaneously.

UPLC/MSE provides a comprehensive digital record of your sample. The system incorporates IntelliStart™ Technology, for automated system optimization and status monitoring, ensuring that the highest quality data is routinely available to all levels of operator.

System Hardware Specifications

API sources
and ionization modes

High performance ZSpray™ dual-orthogonal API sources:

- 1) Multi mode source – ESI/APCI/ESCI® (optional)
NB – Dedicated APCI requires an additional probe (optional)
- 2) APCI IonSABRE II probe (optional)
- 3) Dual mode APPI/APCI source (optional)
- 4) nanoFlow ESI source (optional)
- 5) ASAP ion probe (optional)
- 6) APGC ion source (optional)
- 7) TRIZAIC™ ion source (optional)

Tool-free source exchange

Vacuum isolation valve

Tool free access to customer serviceable elements

Plug and play probes

De-clustering cone gas

Software control of gas flows and heating elements

Mass analyzer

The instrument is equipped with a high resolution, high stability quadrupole ion guide and a high performance oaToF mass analyzer with a mass range up to m/z 100,000 and a resolving power of >32,500 FWHM.

The quadrupole ion guide is upgradable on-site to a high performance resolving mass analyzer.

Collision cell

T-Wave enabled for optimal UPLC/MSE performance at high data acquisition rates; Software programmable collision energy control.

IET - Used Lab Equipment - Refurbished Analytical Laboratory Instruments

Detector	Ultra-fast electron multiplier and hybrid ADC detector electronics to provide outstanding sensitivity and quantitative performance.
Vacuum system	Differentially pumped, automated vacuum system comprising air-cooled turbomolecular pumps and one backing pump (either one rotary pump or one oil free pump). Vacuum read backs and system vent/pump cycles are digitally monitored and controlled, to provide total software control and ensure fail-safe operation in the event of power failure.
Dimensions	Width: 69.2 cm (27.2 in.) Height: 152.0 cm (59.8 in.) Depth: 101.8 cm (40.1 in.)
Regulatory approvals	CE and NRTL

System Software Specifications

Software	Systems supported on MassLynx™ version 4.1 or later and on UNIFI™ Scientific Information System version 1.6 or later.
IntelliStart Technology	System parameter checking and alerts Integrated sample/calibrant delivery system + programmable divert valve Automated mass calibration LC/MS System Check – automated on-column performance test

Performance Specifications

Acquisition modes	MS scanning UPLC/MSE Ionization mode switching (ESCI) External contact start/stop/events Analogue channel acquisition via an e-SAT/IN module
Mass range	The TOF mass range is m/z 20 to 100,000. The quadrupole ion guide has a high mass cutoff of m/z 16,000. An optional high-mass quadrupole ion guide is available with a high mass cutoff of m/z 100,000.
Mass measurement Accuracy	The mass measurement accuracy of the instrument, in resolution mode, will be better than 1 ppm RMS, based on 10 consecutive repeat measurements of the [M + Na] ⁺ ion of raffinose (m/z 527.1588), using a suitable choice of lock mass.
Dynamic range	The dynamic range, defined as the range of peak intensities that will give better than 3 ppm RMS for 10 sec of data, is at least four orders of magnitude when measured on the m/z 556.2771 peak from leucine enkephalin. This can be

increased with use of programmable dynamic range enhancement (pDRE) technology.

Mass resolution	<p>>32,500 FWHM measured on the (M + 6H)⁶⁺ isotope cluster from bovine insulin (m/z 956) MS sensitivity (ESI+) The peak at m/z 556 from a solution of 50 pg/μL leucine enkephalin in 50/50 acetonitrile/water + 0.1% formic acid, will have an intensity of greater than 6,400 counts per sec. The instrument will be tuned to >32,500 FWHM resolution (as demonstrated on bovine insulin) and the mass range will be set to m/z 1200.</p> <p>The peak at m/z 556 from a solution of 50 pg/μL leucine enkephalin in 50/50 acetonitrile/water + 0.1% formic acid, will have an intensity of greater than 32,000 counts per sec. The instrument will be tuned to >22,500 FWHM resolution (as demonstrated on bovine insulin) and the mass range will be set to m/z 1200.</p>
MS sensitivity	<p>(ESI-) The peak at m/z 503 from a solution of 500 pg/μL raffinose in 70/30 acetonitrile/water (no additives), will have an intensity of greater than 7,200 counts per second. The instrument will be tuned to >32,500 FWHM resolution (as demonstrated on bovine insulin), and the mass range will be set to m/z 1200.</p> <p>The peak at m/z 503 from a solution of 500 pg/μL raffinose in 70/30 acetonitrile/water (no additives), will have an intensity of greater than 36,000 counts per second. The instrument will be tuned to > 25,000 FWHM resolution (as demonstrated on bovine insulin), and the mass range will be set to m/z 1200.</p>

WWW.IETLTD.COM



IET | International Equipment Trading Ltd.

www.IetLtd.com | *Proudly serving laboratories worldwide since 1979*

CALL +847.913.0777 for Refurbished & Certified Lab Equipment

IET - Used Lab Equipment - Refurbished Analytical Laboratory Instruments