



Agilent 6550 iFunnel Q-TOF LC/MS System

Data Sheet



Parameter	Measure	Specification
Sensitivity, MS mode, electrospray on-column, 400 $\mu\text{L}/\text{min}$ flow rate	1 pg LC/MS injection of reserpine signal-to-noise for the reserpine (M+H) ⁺ at m/z 609.2807 while maintaining a resolution of 40,000 at m/z 2,722 in 4 GHz mode	1,000:1 RMS
Sensitivity, MS/MS mode, electrospray on-column, 400 $\mu\text{L}/\text{min}$ flow rate	1 pg LC/MS injection of reserpine signal-to-noise for most intense product ions (174, 195,397,448 m/z) while maintaining a resolution of 40,000 at m/z 2,722 in 4 GHz mode	3,000:1 RMS 4,500:1 RMS for maximum sensitivity mode
Mass resolving power	Measured at m/z 322 after automatic tuning procedure Measured at m/z 2,722 after automatic tuning procedure	Greater than 25,000 at 322 m/z Greater than 42,000 FWHM at 2,722 m/z
Mass accuracy, MS mode, electrospray on-column, 400 $\mu\text{L}/\text{min}$	Measured at the (M+H) ⁺ ion of reserpine (m/z 609.2807) using an internal mass reference	Better than 1 ppm RMS as measured from 10 repeat injections
Mass accuracy, MS/MS mode, electrospray on-column, 400 $\mu\text{L}/\text{min}$	Product ion 397 m/z for reserpine	Better than 2 ppm RMS on m/z 397 as measured from 10 repeat injections



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Mass accuracy temperature stability, MS mode	Temperature: 15 to 35 °C (59 to 95 °F) at constant temperature	Maintain 1 ppm mass accuracy (variations < 3 °C from calibration temperature)
Dynamic range	Intra-scan dynamic range on co-eluting components	Up to 5 decades
Mass range		<i>m/z</i> 100 – 10,000 extended mass range <i>m/z</i> 50 – 1,700 or 50-3,200 for both high resolution and extended dynamic range modes Quadrupole up to 4,000 <i>m/z</i>
Spectral acquisition rate, MS mode	<i>m/z</i> 50 to 1,700 in MS mode while maintaining a resolution of 40,000 at <i>m/z</i> 2,722 in 4 GHz mode	50 spectra/second
Spectral acquisition rate, MS/MS mode	<i>m/z</i> 50 to 1,700 in MS/MS mode while maintaining a resolution of 40,000 at <i>m/z</i> 2,722 in 4 GHz mode	50 MS/MS spectra/second
Positive to negative switching	Complete cycle switching from positive to negative and positive modes – allows for stabilization time	1.5 seconds

All specifications are achieved in manufacturing, and instrument performance data is supplied with shipment. All specification values are achieved after autotune and do not require manual optimization. These specifications are not standard installation specifications for the iFunnel Q-TOF LC/MS System. Agilent high resolution accurate mass Q-TOF instruments are tested and installed in accordance with standard performance tests as described in the Agilent installation manual.

www.agilent.com/chem/QTOF

This information is subject to change without notice.

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