

# Press Release

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UFLC technology

## **World's Fastest and Most Sensitive LCMS System**

Faster and more sensitive than any other single quadrupole analyzer /  
Most accurate detection of trace impurities, e.g. in pharmaceuticals /  
Updated software version

Shimadzu, one of the world's leading developers of analytical instrumentation, has introduced a new compact LCMS-2020 single quadrupole mass spectrometer, which features the world's fastest scanning capabilities. Utilizing patent pending ultrafast (UF) technology, the LCMS-2020 has faster measurement speed and significantly higher sensitivity than any other single quadrupole analyzer. This provides more accurate detection of trace impurities in pharmaceuticals, environmental pollutants and other contaminants.

### **Best chromatography for fastest LC conditions**

The new UFscanning technology achieves mass spectrum measurement speeds of 15,000 u/sec without sacrificing sensitivity or resolution, thus obtaining the best chromatography for the fastest LC conditions. The novel UFswitching technology achieves industry-leading 15 ms polarity switching, enabling accurate data from even the fastest chromatographic peaks without any loss of peak height.

### **Redesigned ion transfer section; easier maintenance**

Shimadzu redesigned the ion transfer section to provide greater sensitivity than other quadrupole analyzers for commonly measured substances. Users can now inject less and keep the analyzer cleaner for longer. It also has improved high mass operation with sensitivity increased for masses above 1,000. In addition to better performance, the LCMS-2020 allows easier maintenance, permitting users to replace the ionization unit and inlet capillary to the MS from the LC, without breaking the vacuum.

### **Updated software version**

LCMS-2020 control and data processing are handled by an updated version of LCMSsolution software. The new software easily displays multiple sets of LC or MS data, allowing overlay and analysis of multiple data results for easy searching and comparison. The new software controls the LCMS-2020 and is fully integrated with Shimadzu's *prominence* series of ultrafast and nano HPLCs.



Caption 1: Shimadzu's new LCMS-2020 single quadrupole mass spectrometer combines fastest measurement speed with highest sensitivity. Trace impurities in pharmaceuticals, environmental pollutants and other contaminants are detected most accurately.

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