

UniSpray

SEE MORE OF YOUR SAMPLE

WHAT IS UNISPRAY?

UniSpray is a new type of ionization invented and developed exclusively by Waters. This innovative new source provides more comprehensive ionization than is possible with any other single technique, allowing you to see more of your sample from a single analysis.

BENEFITS OF UNISPRAY

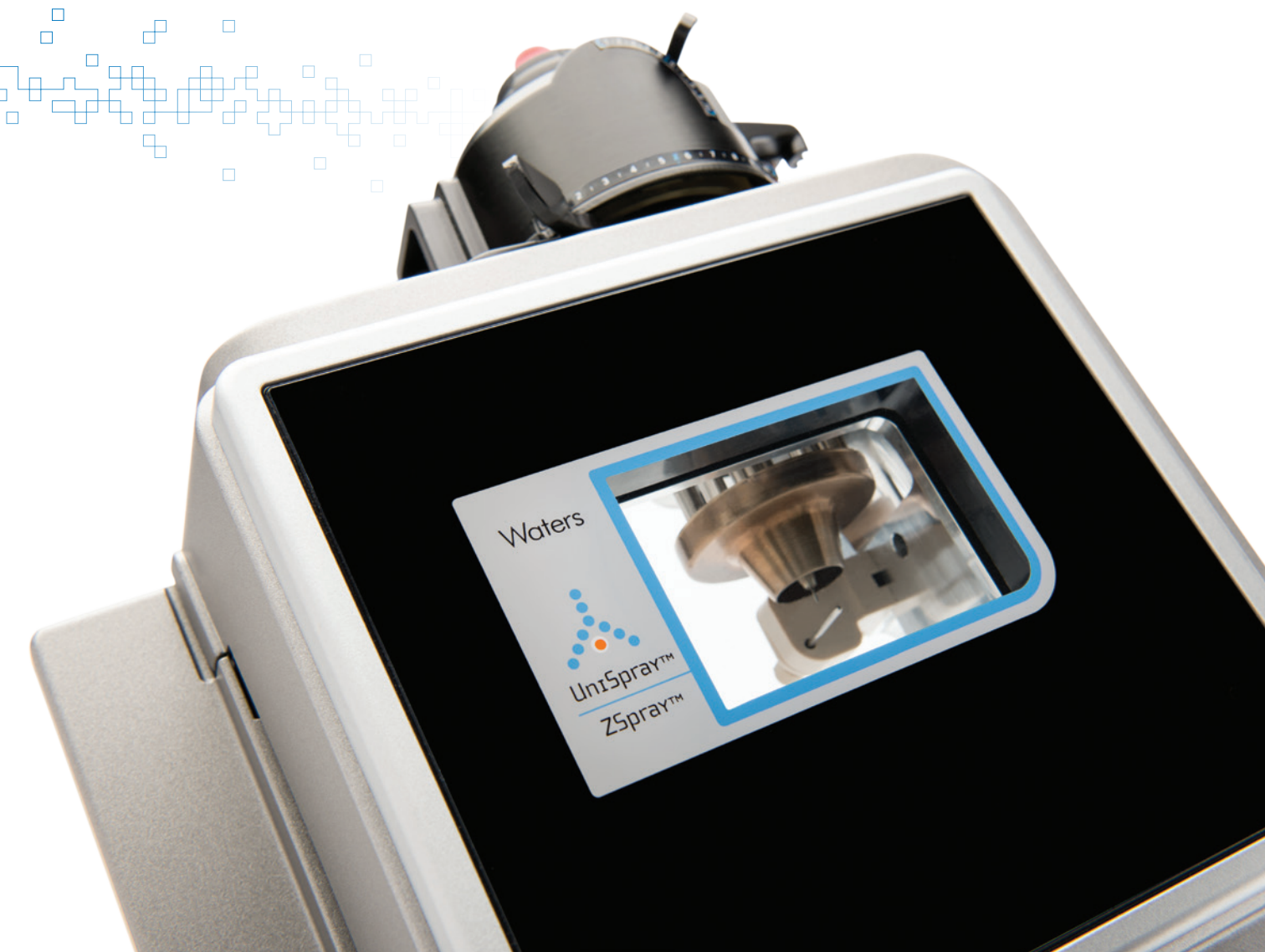
- Enhances ionization efficiency giving the potential for increased sensitivity
- Improves compound coverage – ionize a broader range of compounds in a single run
- Reduces the need to change ionization source between different analyses, saving time and increasing productivity
- Minimizes and simplifies routine maintenance – quick and easy to change single-piece probe and target pin



Xevo TQ-XS with UniSpray ion source.

HIGH EFFICIENCY, BROAD APPLICABILITY

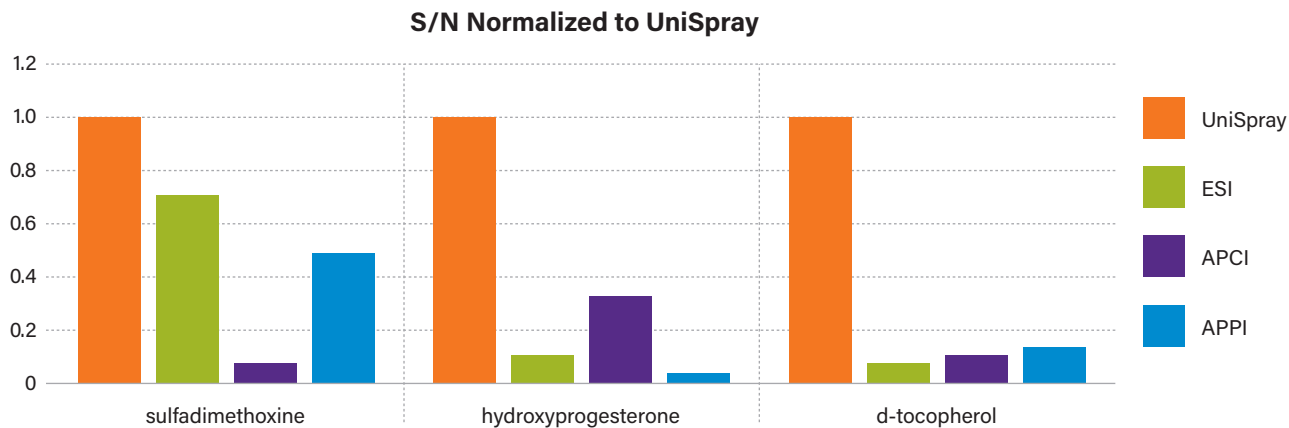
Available on the full range of Waters Universal Ion Source compatible mass spectrometers, UniSpray™ expands the scope of your analysis by enabling a wider range of analytes to be ionized in a single run and delivering results for more compounds than ever before.



EXPANDING THE BREADTH OF IONIZATION

The unique geometry of the UniSpray ion source generates several different mechanisms to produce smaller droplets and enhance desolvation. These effects combine to produce a greater number of free ions from the same amount of sample when compared to traditional ionization modes such as electrospray, and typically result in an increased response across a wide range of compounds.

The combination of a broader range of analytes and a potential boost in response allow the possibility to consolidate several analytical methods into one. This potentially removes the need to swap sources between analyses, saving you time and increasing your laboratory's efficiency.



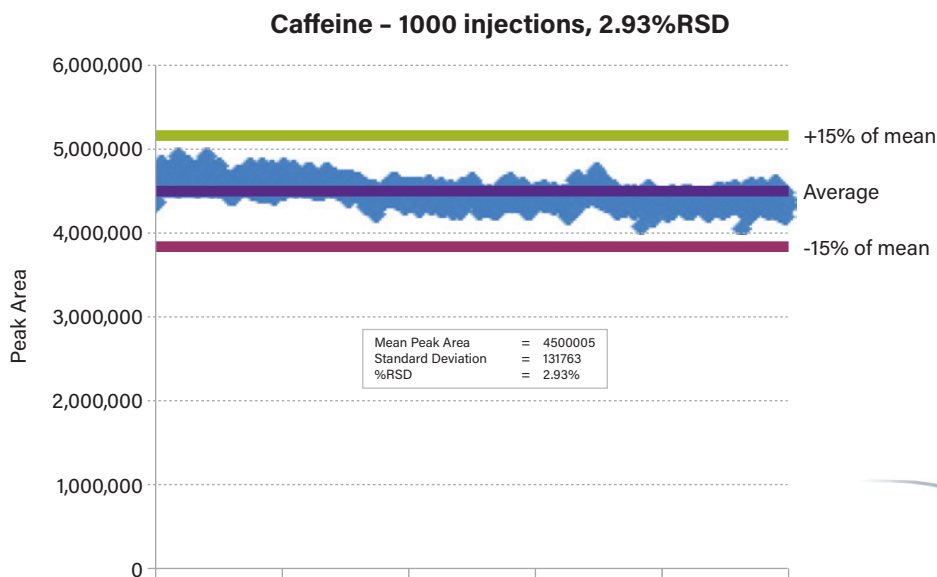
UPLC/MRM data on the Xevo TQ-XS with UniSpray ion source showing improved sensitivity for three compounds that would typically require a change in ionization technique for optimal analysis.



ROBUST, REPRODUCIBLE, AND EASY TO USE

The single-piece probe design and updated probe adjuster on the UniSpray ion source allow for simple optimization and tool free routine maintenance, ensuring you get the same results, no matter who operates and maintains your

instrumentation. In a study of 1,000 injections of protein precipitated plasma, analyzing for spiked caffeine, peak area RSD of <3% was observed across the entire series of injections.



UPLC/MRM data on the Xevo TQ-XS with UniSpray ion source showing excellent reproducibility for 1000 injections of caffeine in protein precipitated human plasma.





www.waters.com/unispray

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Waters

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