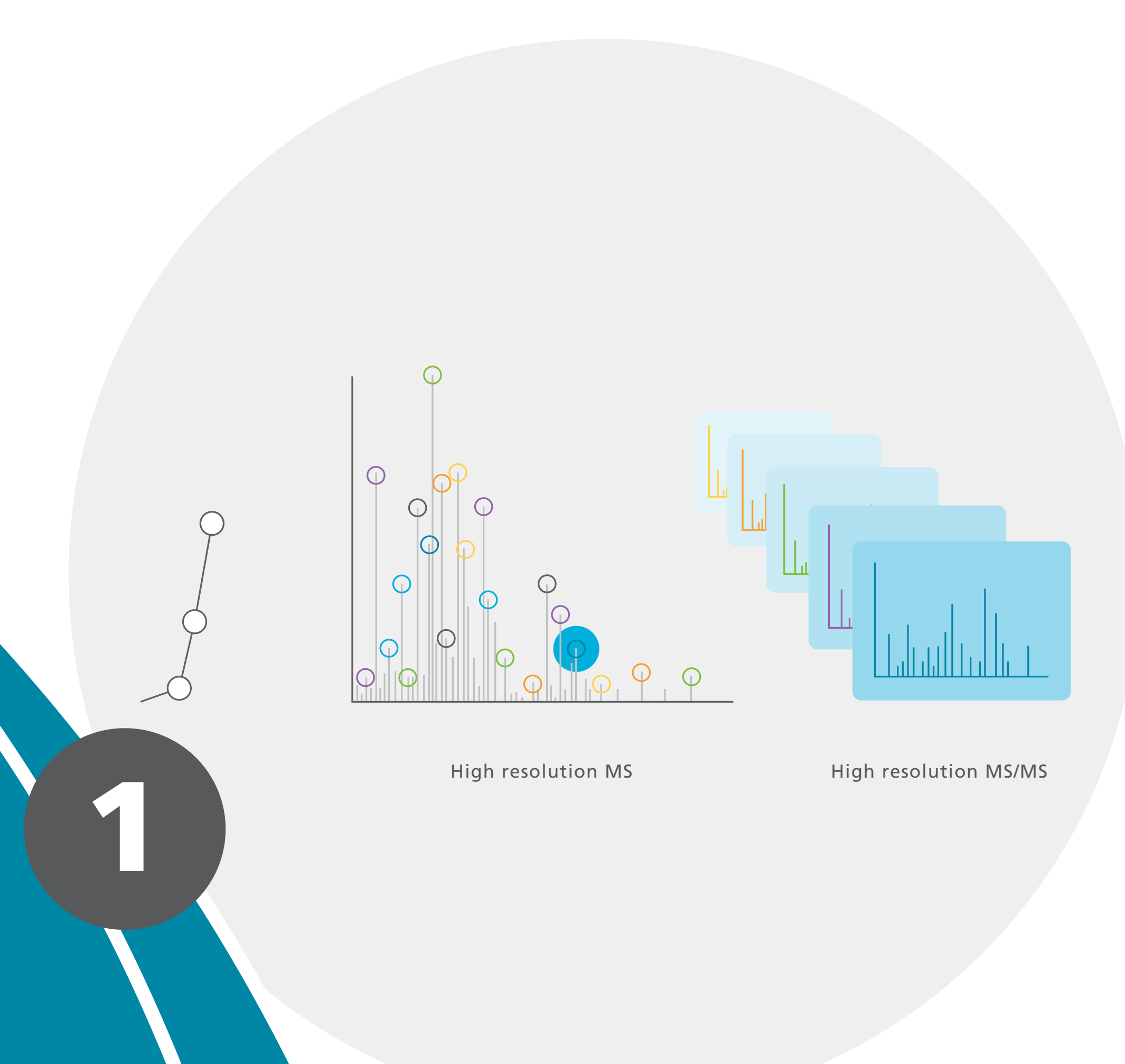


TripleTOF® 5600+ LC-MS/MS System

One System, Flexible Workflows

TRIPLE TOF®
3

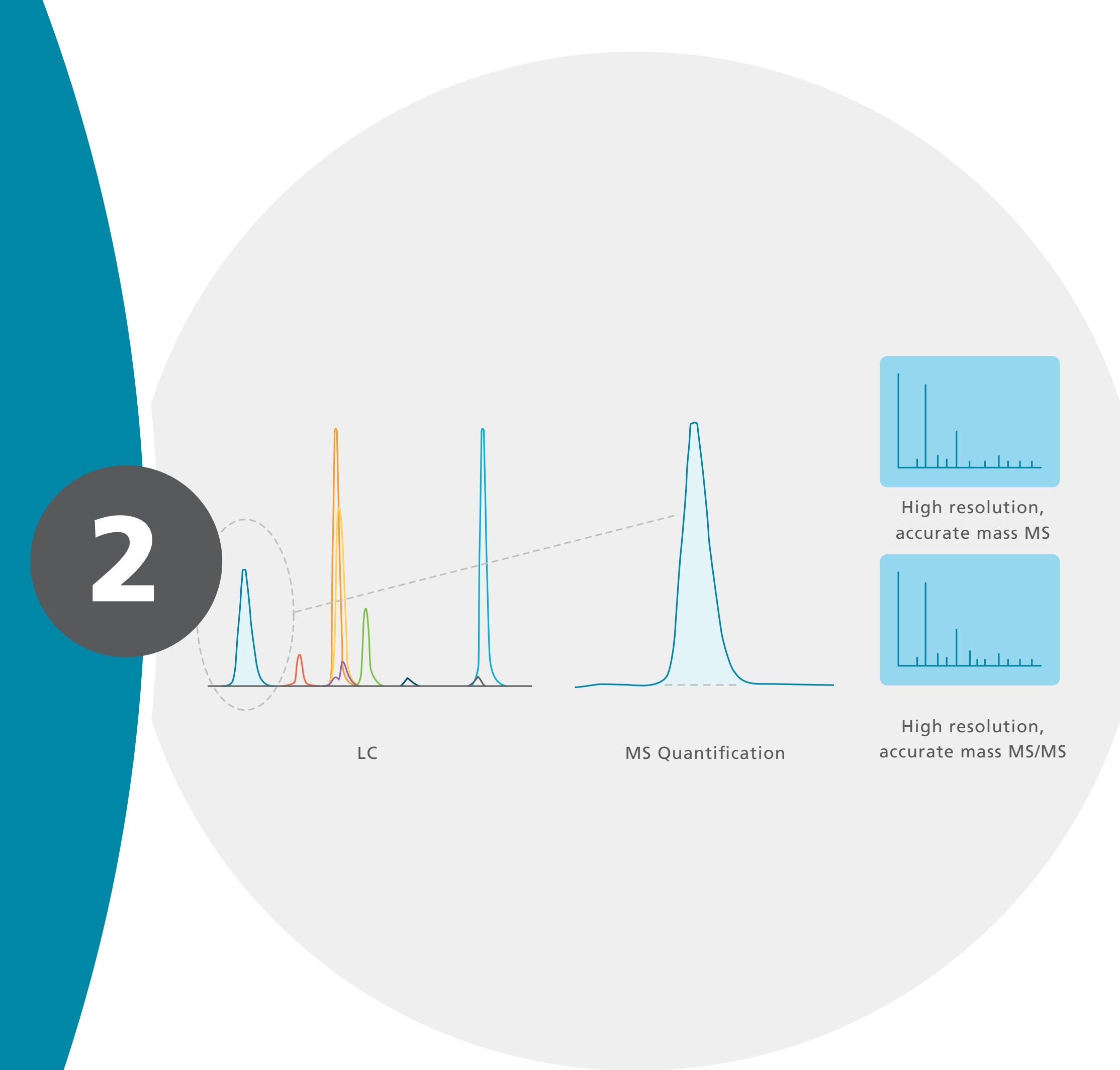
Integrate comprehensive qualitative exploration, rapid profiling, and high-resolution quantitation workflows on a single platform. Providing faster and more accurate answers to “what’s in the sample, how much is there, and does it change?”



EXPLORE

Explore complex samples in greater depth:

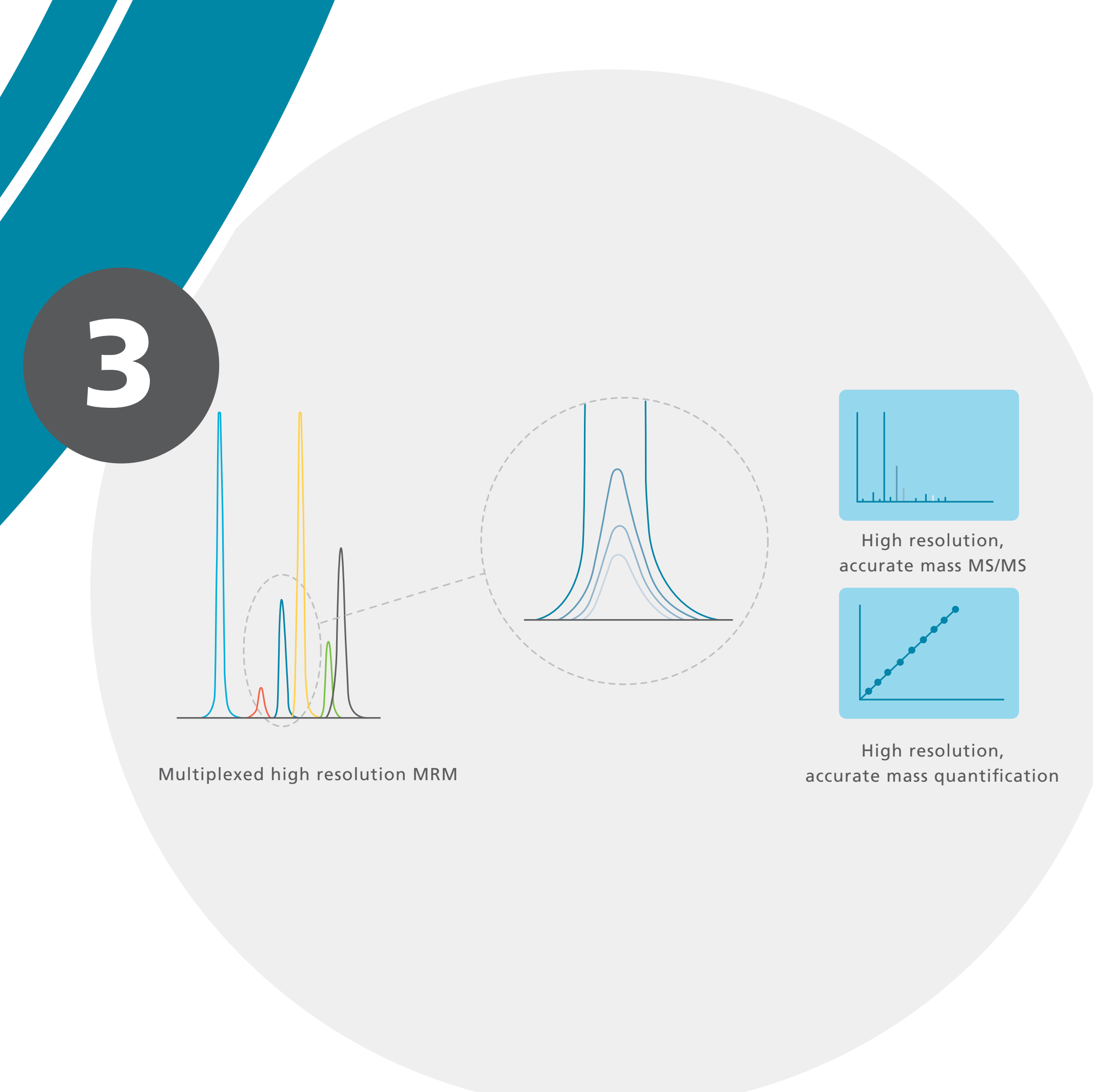
Select up to 100 precursors per cycle and generate high resolution, high mass accuracy MS/MS spectra using powerful IDA (information dependent acquisition) algorithms.



PROFILE

Profile samples for quant and qual in a single run:

Quantify large numbers of compounds in a sample high resolution SWATH® Acquisition workflow, to obtain quantification and compounds identification from high resolution MS and MS/MS data, with a speed of acquisition that easily keeps pace with today’s fast chromatography.



QUANTIFY

Quantify analytes with high resolution MRM for highest specificity and confidence:

Obtain high and low mass in the same spectrum for high-resolution MRM quantification. Cycle times as low as 10 msec generate superior peak definition even with fast LC separations. Quantification requires little optimization, and you can choose multiple fragments per precursor from the acquired full scan MS/MS data.

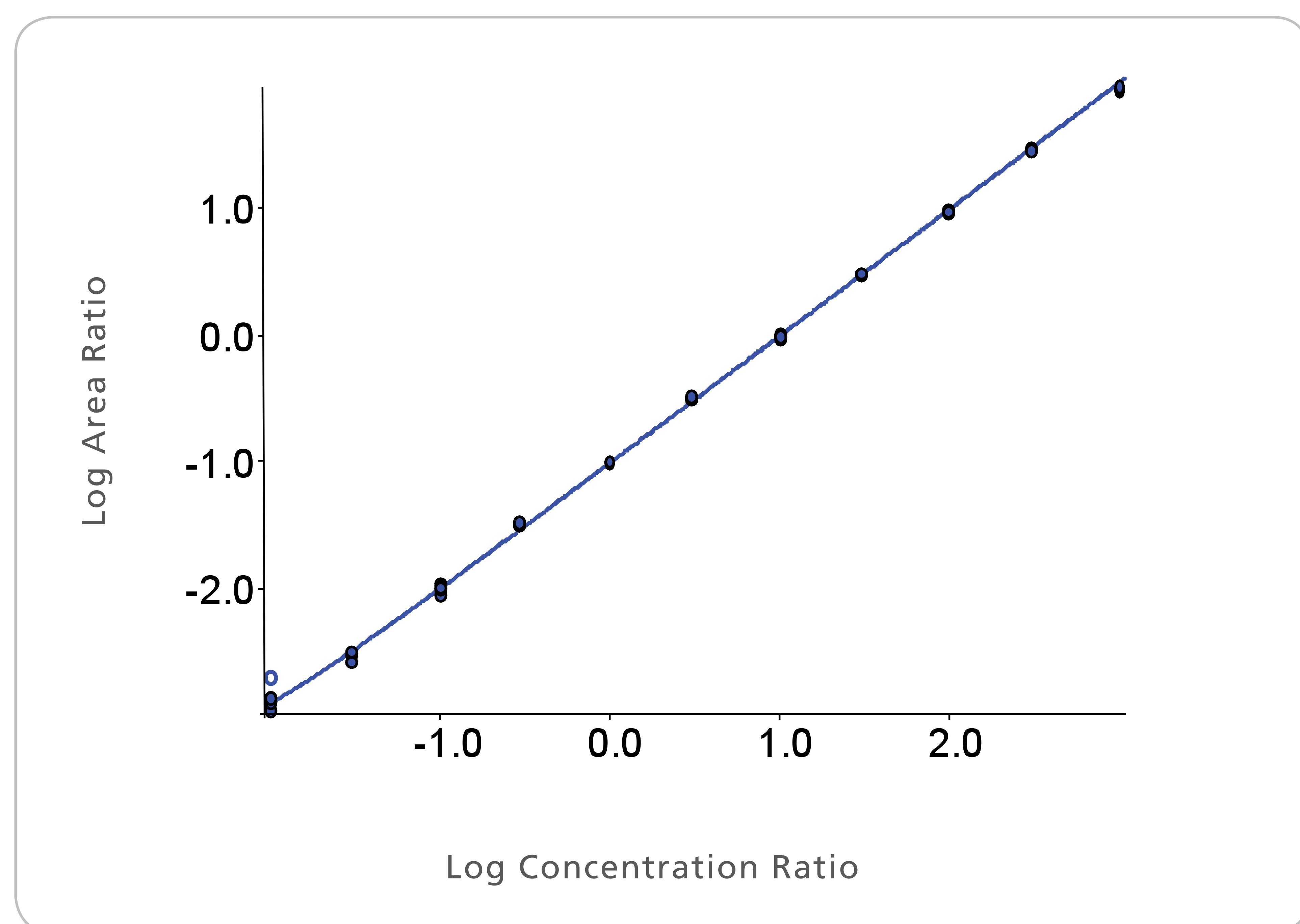
Extending the Limits of High Resolution Quantitative and Qualitative Analysis

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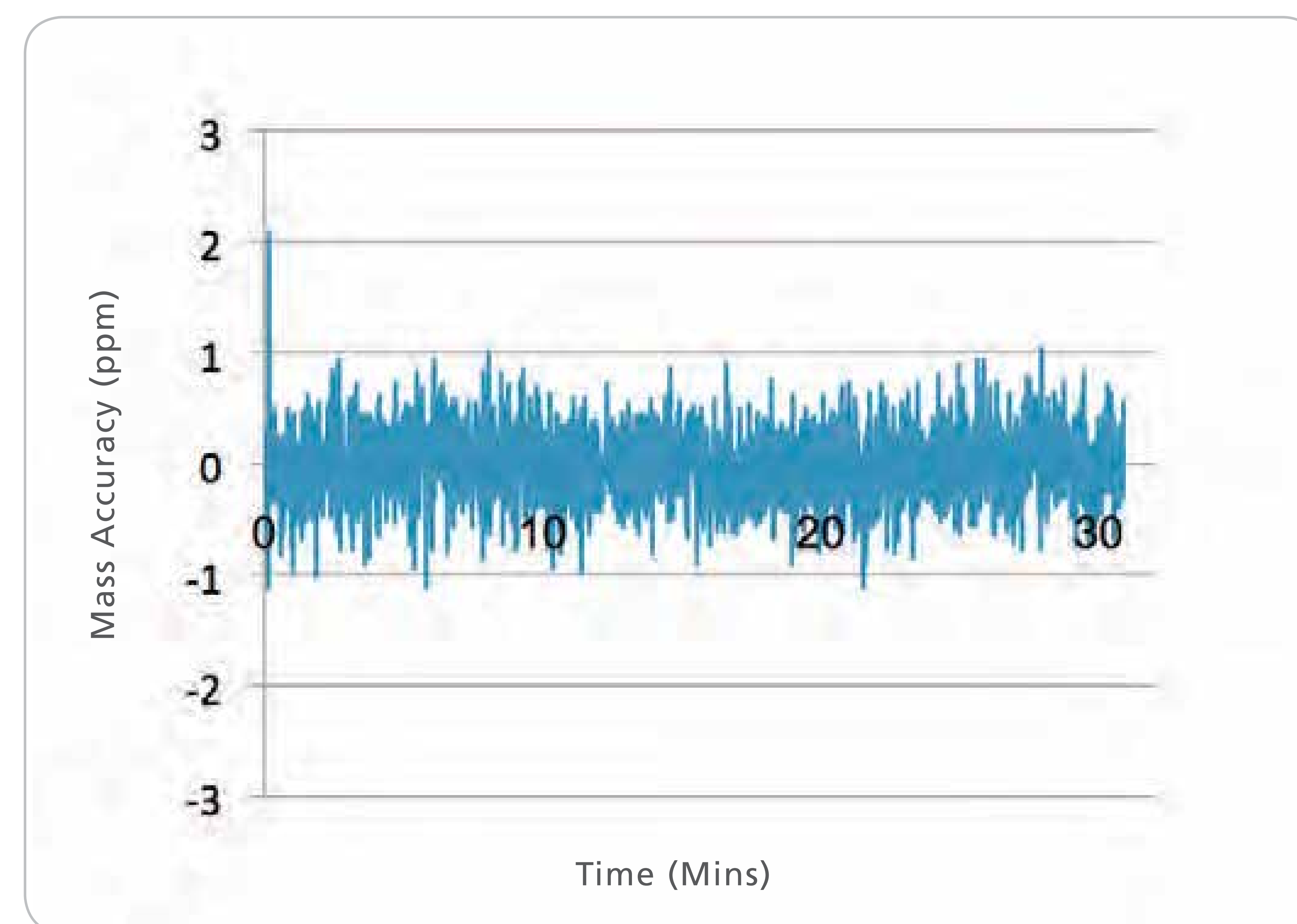
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TripleTOF[®] 5600+ LC-MS/MS System Performance Delivered

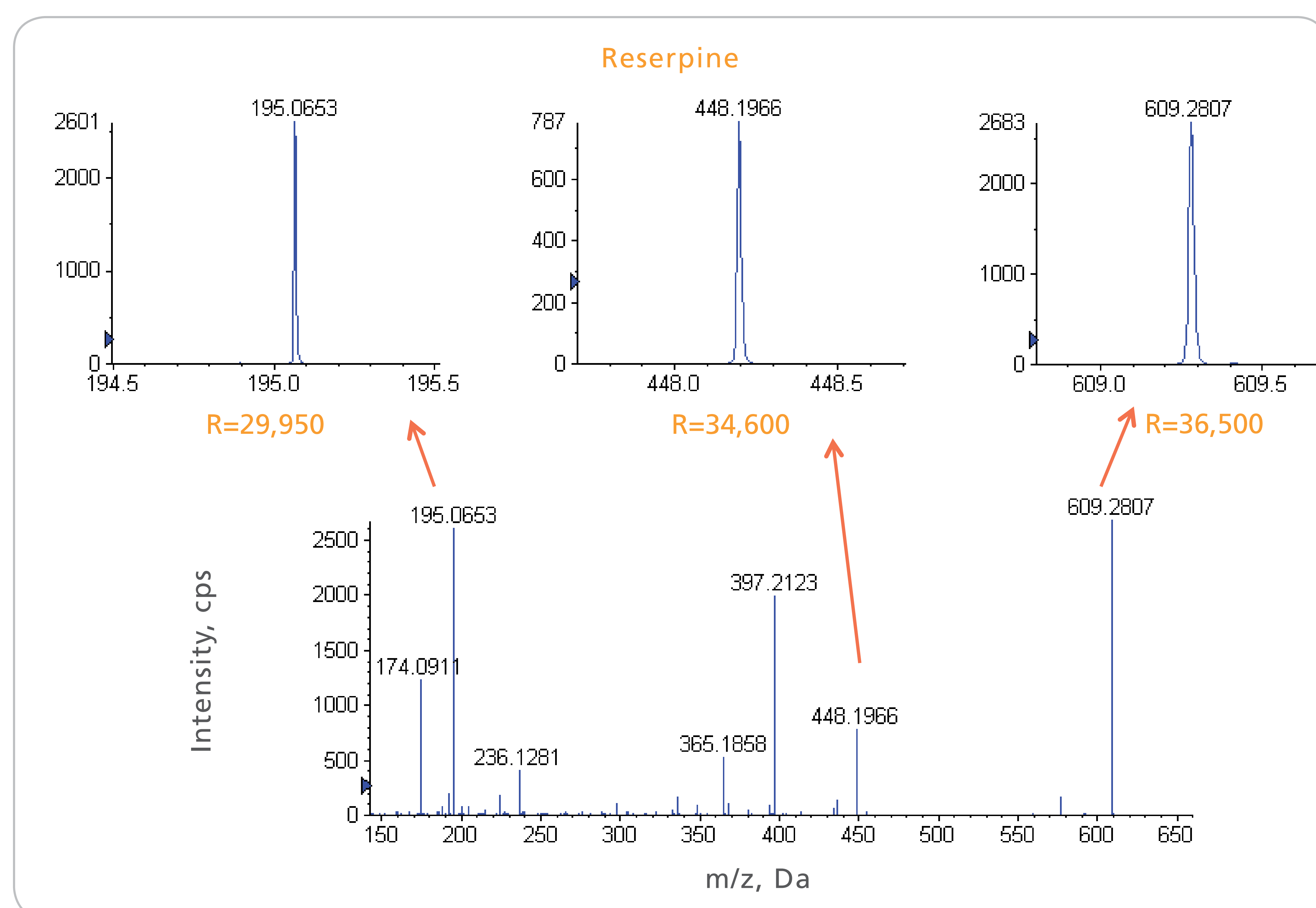
The TripleTOF 5600+ system delivers with high-resolution, high-sensitivity data, and excellent mass accuracy stability with fast acquisition rates. Get unmatched performance with the TripleTOF 5600+ system.



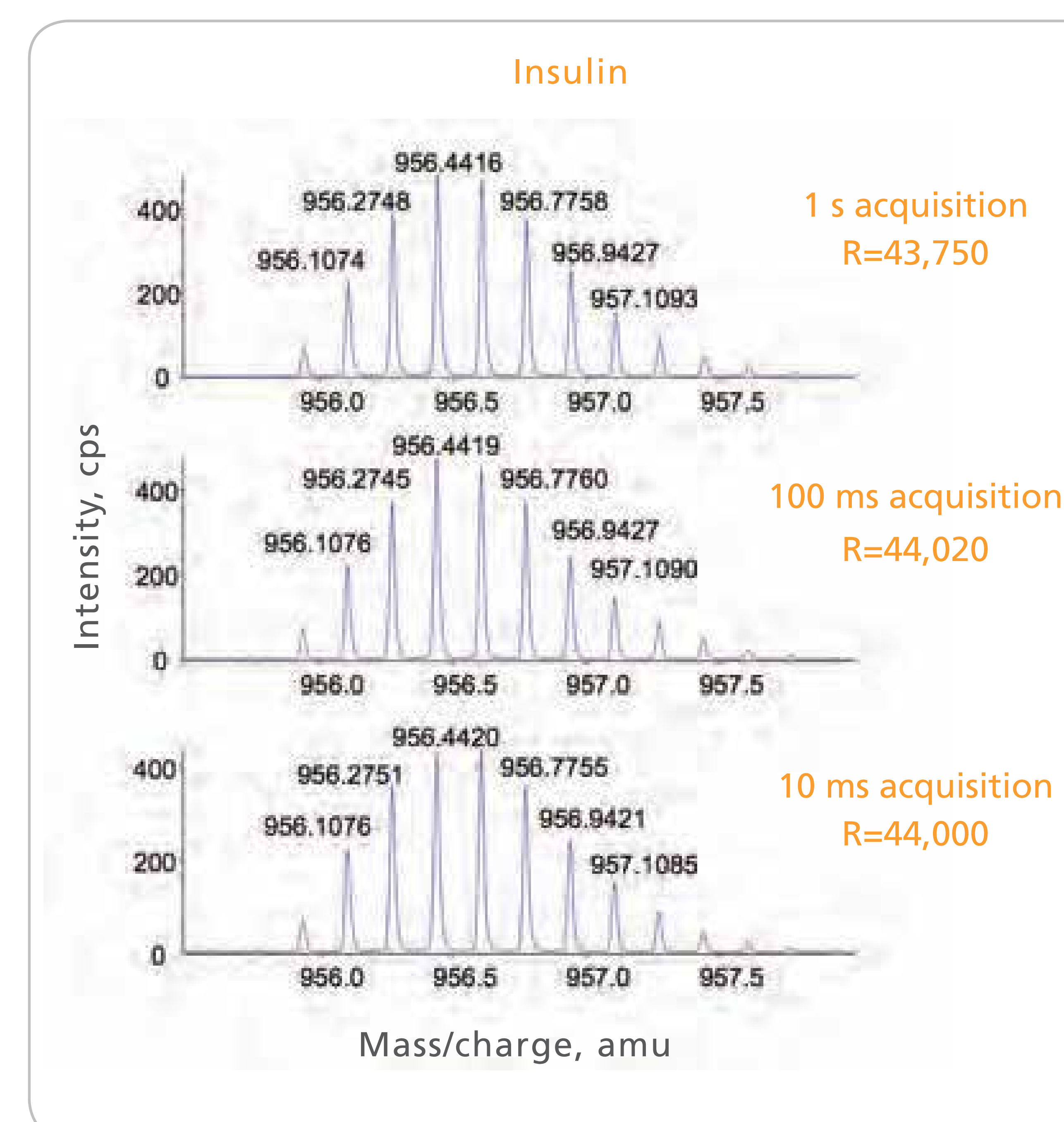
The system also provides up to 4 orders of magnitude linear dynamic range high-resolution, high-sensitivity data with acquisition speed up to 100 spectra/sec makes the TripleTOF 5600 system a perfect complement to ultra-fast chromatography. The system also provides 4-5 orders of magnitude of linearity to ensure accurate quantitation in MS and MS/MS modes.



EasyMass(TM) accuracy delivers high mass accuracy MS and MS/MS data with ease. With external calibration, the mass accuracy holds rock-steady at <1ppm over 30 minutes, and RMS=1.69 over 100 hours.



Reserpine and fragments demonstrate high resolution at low mass, ~30,000 at 100 MS/MS per second.



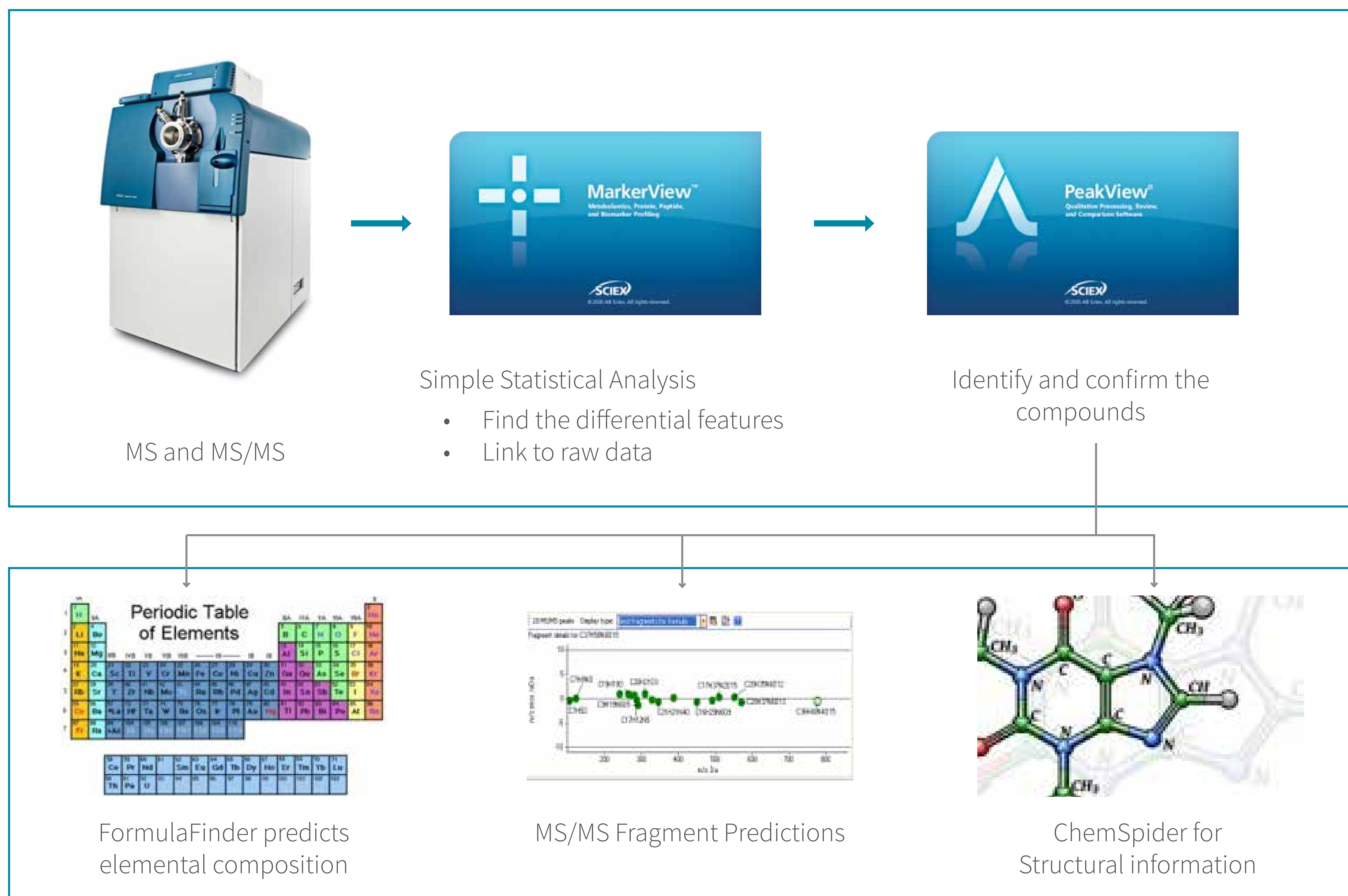
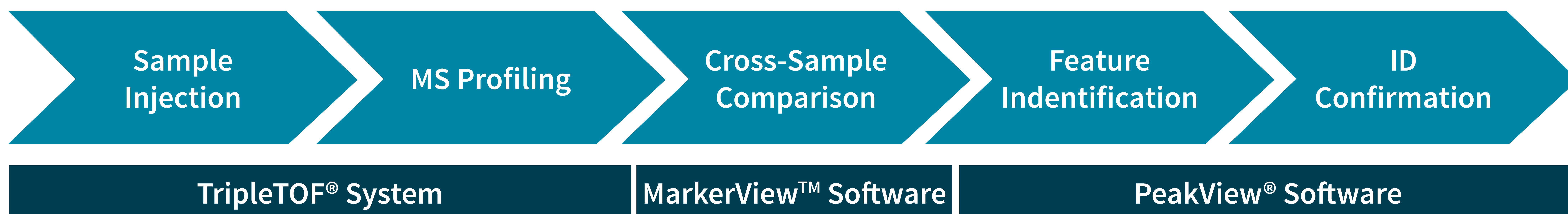
Resolution of insulin (6+) is maintained at >43,000 with data accumulation times of 1 second, 100 milliseconds, and 10 milliseconds.

Extending the Limits of High-Resolution Quantitative and Qualitative Analysis

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SWATH® Acquisition Quant/ Qual Experimental Workflow



Extending the Limits of High-Resolution Quantitative and Qualitative Analysis