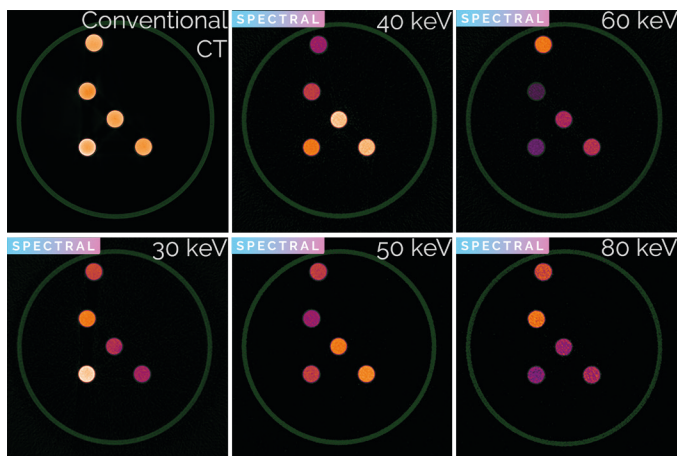
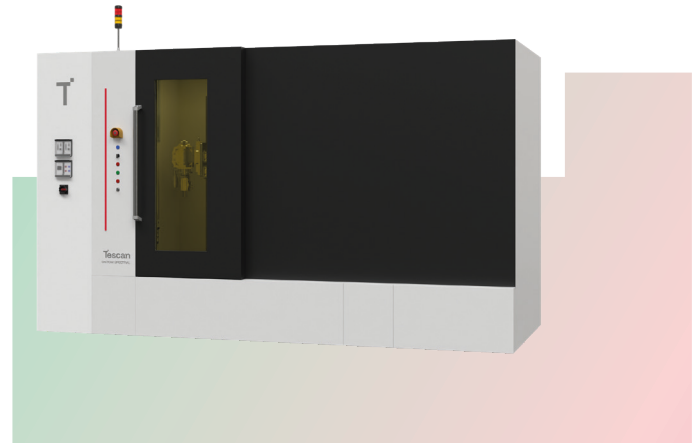




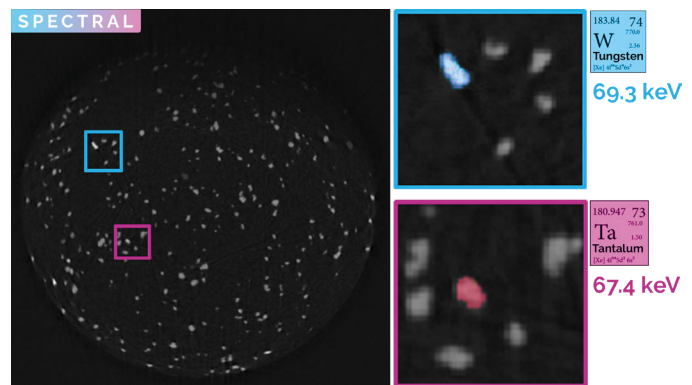
Tescan UniTOM XL SPECTRAL

Obtain chemical information from any point inside a sample, complementing state-of-the-art structural imaging capabilities.

TESCAN SPECTRAL CT provides true spectral imaging, capturing the full x-ray spectrum before and after interacting with your samples. Spectral information can be used to complement micro-structural imaging with chemical and compositional data and provides contrast where traditional attenuation micro-CT imaging hits its limits.



TrueContrast™ provides differentiation between phases that traditional micro-CT (top left) cannot differentiate. Full spectral analysis enables multi-energy CT - in a single scan, identifying the five different chemical compositions in this sample.



Absolute identification of Ta and W in an ore mineral sample using K-edge localization. Even edges close together can be separated.

Key benefits:

- **Complement structural information with non-destructive chemical and compositional data** through the use of a fully integrated, novel energy-sensitive photon counting detector.
- **Collect the x-ray spectrum at any point inside the sample** by selecting locations using the TESCAN Volume-Of-Interest Scanning (VOIS™) workflow.
- **Acquire structural information of the highest quality in short scan times**, enabled by the fast hardware and versatility of the TESCAN UniTOM XL SPECTRAL.
- **Switch between standard and spectral imaging with one click**, without complicated data matching and alignment, for a smooth and intuitive imaging workflow.
- **Differentiate between materials, identify their composition and quantify their properties** using automated k-edge filters, spectrum comparison and shape analysis in TESCAN SPECTRAL SUITE™, which provides powerful tools to reconstruct, visualize and analyze spectral data and create reference libraries.