



# Scanning Electron Microscopy/ Energy Dispersive X-Ray Spectroscopy (SEM/EDX)

Carl Zeiss AG SUPRA 25 FE-SEM with Oxford  
EDAX XMAX80 INCA

Carl Zeiss AG SIGMA HD VP FE-SEM with Oxford  
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A SEM (Scanning Electron Microscope) can be utilized for high magnification imaging of almost all materials. With SEM in combination with EDX (Energy Dispersive X-Ray spectroscopy) it is also possible to find out which elements are present in the area being viewed. A SEM-EDX is a powerful problem-solving instrument to not only identify but also quantify the elemental composition as part of a failure analysis.

## Key Features:

- Ultra high resolution over the full high voltage range
- High probe current for fast X-Ray analysis and mapping
- Combine scanning electron microscopy and elemental analytics: Oxford XMAX80 EDX.
- Short analytical working distance of 8.5 mm for simultaneous high resolution imaging and X-Ray analysis

## Strength:

- Quick, “first look” compositional analysis
- Get analytical data at half the probe current and twice the speed
- Achieve complete, shadow-free analytics in your FE-SEM. Profit from using a short analytical working distance of 8.5 mm and a take-off angle of 35°
- Obtain crisp images in variable pressure mode with the VPSE

## Services:

ALS Thailand offers qualitative and semi-quantitative analysis by SEM/ EDX to surfaces of solid samples for the identification of contaminants, internal structure of Electronics devices as well as determination of coating thickness by cross-section (destructive).

## About ALS

With more than a decade of sophisticated testing experience, ALS Thailand (Pathumthani) has a diverse range of sampling, testing, and consulting services for the Electronics industry. We have dedicated technical staff to deliver reliable and timely analytical solutions for customer testing needs. We specialize in micro-contaminant and RoHS analysis, offering tailored analytical packages that are specific to client requirements and needs. We are ready to deploy our world-class services to additional industries to support Thailand’s industry growth. ALS provides the wide range of professional services for Electronics, Semi-Conductor, Auto motive, Telecommunication, and Wear-Check analysis (Tribology).

