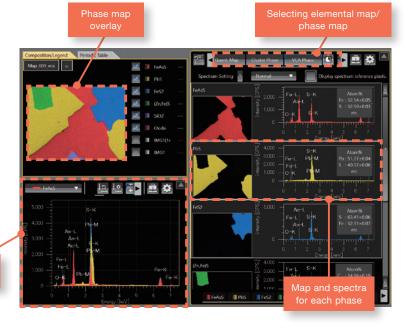
Simple phase analysis with EDS

~EDS Phase Analysis Software2~

Automatic one-click creation of chemical compound maps

EDS mapping is a way to visualize elemental distribution across a specimen. Phase Analysis is an extension of EDS map analysis for visualization of the chemical distribution.

With one click, Phase analysis automatically creates equivalent chemical composition area (phase map) as well as phase spectra and quantitative results.

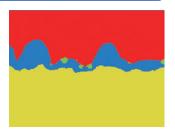


Two analysis modes optimized for different specimen types and applications

Cluster Phase Analysis

Filled color map

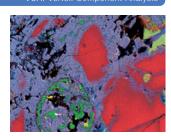
- ✓ Area fraction of each phase
- √ For analysis of materials interface, bonding surface



VCA Phase Analysis

Gradient color map

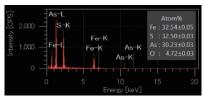
- √ For areas with heterogeneous chemical composition
- √ For non-flat specimens
- √ For finding small grains



Useful functions

(Automatic labeling)

Automatically generates spectra for each phase. Two types of labeling are available.



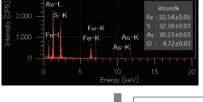
1 Labeling by constituent elements

Labeling based on the qualitative and quantitative analysis of the spectra.

2 Labeling with QBase

Labeling based on spectral match with JEOL's QBase. The label will be the same as that registered in QBase.

QBase: Qualitative Analysis Database



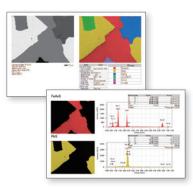
(Reanalysis Preview)

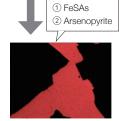
Preview results when manually changing the number of phases.



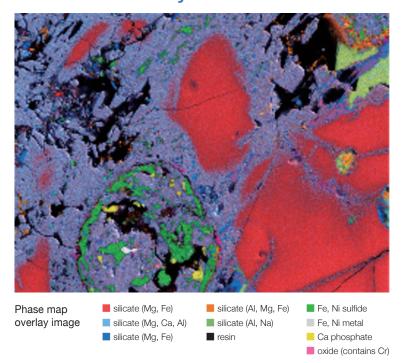
(One-click report creation)

One-click report creation of the Phase Analysis

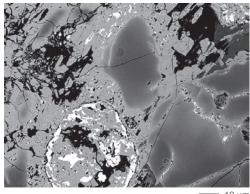




VCA Phase Analysis Mode

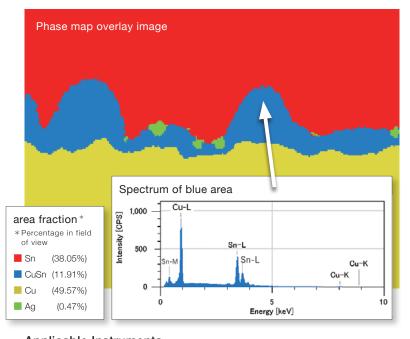


Backscattered electron compositional image

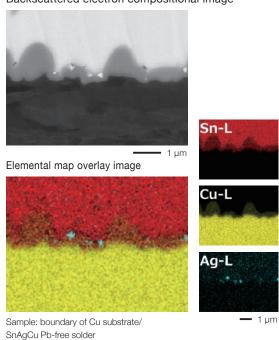


Sample: chondrite meteorite

Cluster Phase Analysis Mode



Backscattered electron compositional image



Applicable Instruments

JCM-7000*, JSM-IT510*, JSM-IT210, JSM-IT210HR * Upgrade may be required for some units

JSM-IT500**, JSM-IT500**, JSM-IT500**, JSM-IT700HR**, JSM-IT800**, JIB-PS500i** ** Offline operation using the Offline Data Processing Software (EX-37390SVL)

- EDS Phase Analysis Software 2 (EX-36430PHA2) is optional software for JEOL's EDS system.
- Playback Analysis function is available (Standard Software for EDS (EX-36271STD) is required).

*Specifications subject to change without notice.

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