



# HyLogger™ scalar definitions

Acronym				Definition
VIS-NIR				Visible near-infrared 380nm-1300nm
SWIR				Shortwave Infrared 1300nm-2500nm
TIR				Thermal Infrared 6000nm-14500nm
Min1				Primary mineral component of sample
Min2				Secondary mineral component of sample
Min3				Tertiary mineral component of sample
Grp1				Grouping of Min1 minerals by common, more generalised, classification
Grp2				Grouping of Min2 minerals by common, more generalised, classification
Grp3				Grouping of Min3 minerals by common, more generalised, classification
	u			Mineral match generated from a library subset chosen by an analyst
		TSA		The spectral assistant algorithm used to match library spectra to the measured spectra
		jCLS		Joint Constrained Least Squares algorithm used to match Thermal Infrared spectra to library spectra. "Joint" implies SWIR results influence TIR results.
			V	Visible near-infrared minerals
			S	Shortwave infrared minerals
			Т	Thermal infrared minerals

### **SCALAR PLOT EXAMPLES**

#### Min1 uTSAS

Min1 Primary mineral component of sample;

Mineral match generated from a library subset chosen by an analyst;

TSA The spectral assistant algorithm used to match library spectra to the measured;

Shortwave infrared minerals.

## **Grp1 uTSAV**

Grp1 Grouping of Min1 minerals by common, more generalised, classification;

Mineral match generated from a library subset chosen by an analyst;

**TSA** The spectral assistant algorithm used to match library spectra to the measured;

V Visible near-infrared minerals.

## **Grp EXAMPLES**

WHITE-MICA: Muscovite, Paragonite and Phengite

**KAOLIN**: Kaolinite, Dickite and Nacrite



