

**EZ-ID provides geologists, geoscientists, and geometallurgists with the tools to identify minerals, create more accurate mineral maps and vector alteration to mineralization**



## EZ-ID Mineral Identification Software

### Porphyry Alteration Minerals

Sericite/Muscovite, Chlorite, Biotite, Anhydrite, Epidote, Illite, Kaolinite, Alunite, Calcite, Smectite

### Porphyry Leach Cap Minerals

Jarosite, Alunite, Pyrophyllite, Diaspore, Zunyite, Dickite

### Epithermal—Low Sulfidation Alteration Minerals

Illite, Smectite, Montmorillonite, Kaolinite, Calcite, Buddingtonite, Chlorite, Epidote

### Epithermal—High Sulfidation Alteration Minerals

Alunite, Pyrophyllite, Kaolinite, Illite, Chlorite, Diaspore, Dickite, Smectite, Montmorillonite

### IOCG Alteration Minerals

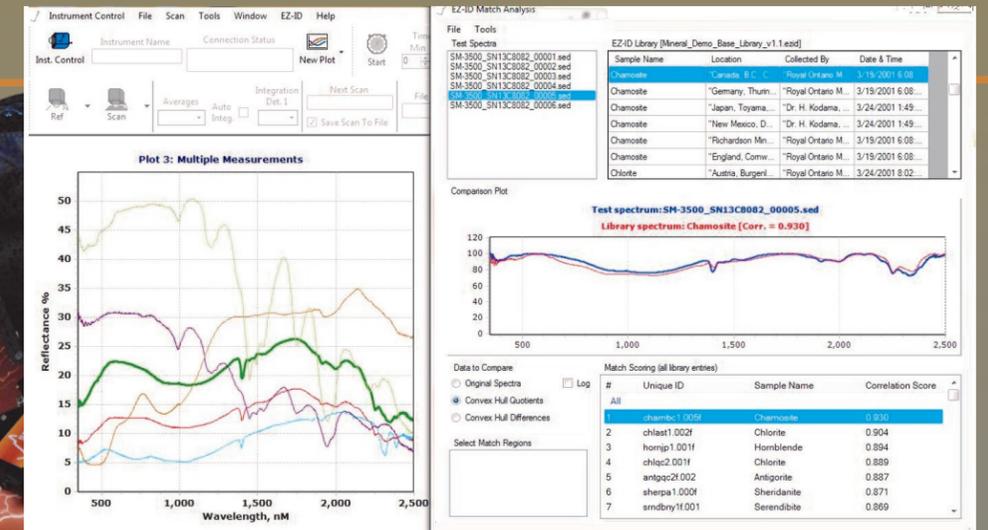
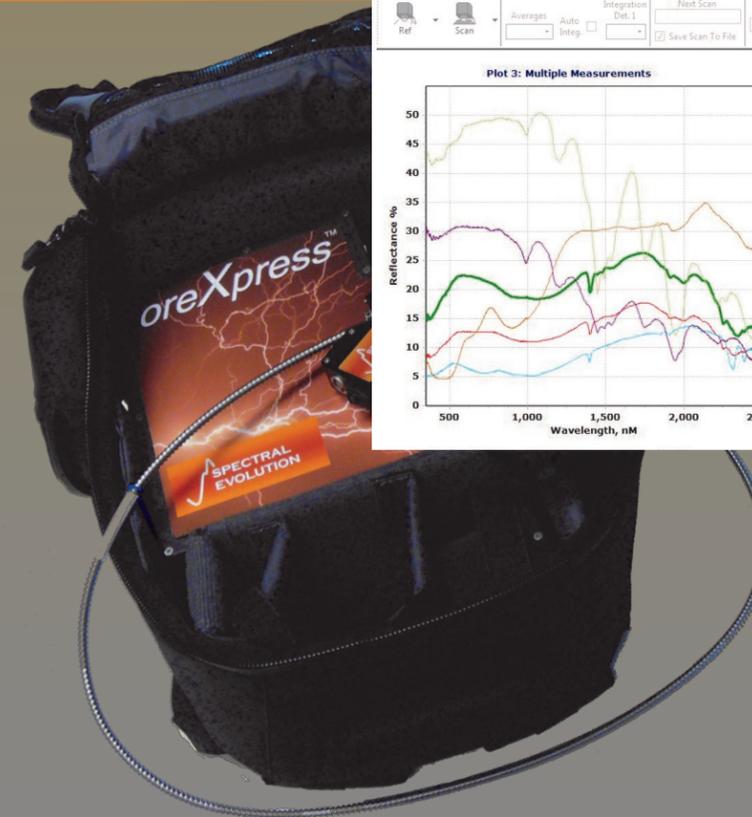
Albite, Sericite/Muscovite, Biotite, Calcite, Chlorite, Epidote, Phlogopite

### Rare Earth Minerals

Apatite, Monazite, Bastnaesite, Parasite, Xenotime

### Uranium

Uraninite, Sericite, Dickite, Chlorite, Kaolinite, Illite, Pyritre, Chalcopyrite



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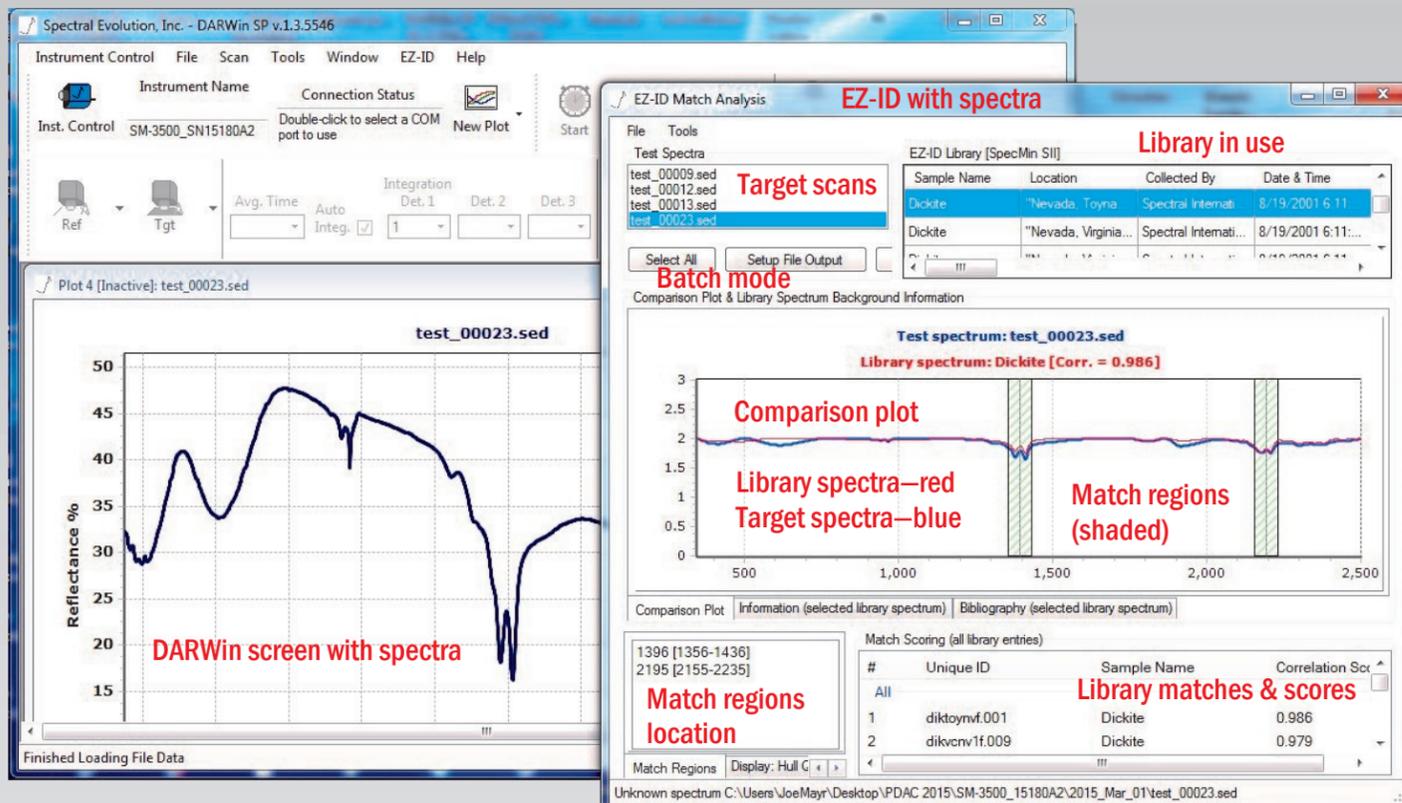
# Quickly Identify Your Target Mineral with EZ-ID™ Software and the oreXpress™ Field Spectrometer for Mining

Mineral identification has never been faster, easier, or more accurate than with EZ-ID software from SPECTRAL EVOLUTION. EZ-ID provides mineral identification capabilities for the oreXpress family of spectrometers for mining exploration.

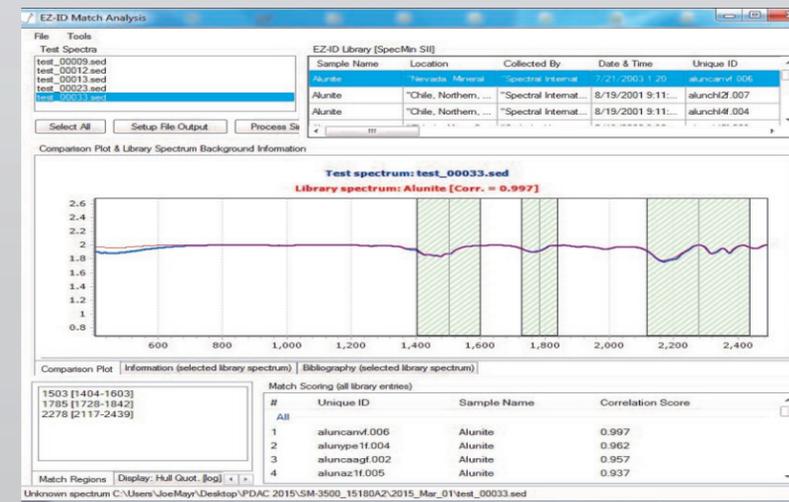
You can perform mineral identification in seconds by matching your target minerals against the USGS library of minerals. The optional SPECMin library provides an additional 1500 scans for fast identification of over 500 minerals. EZ-ID compares the target spectra versus the library, allows you to select regions of interest for closer examination, and provides the most likely matches with weighted scores. A batch processing capability allows a geologist to select target files, their information and rankings, and import that data into a Microsoft Excel spreadsheet, a comma delimited file, or a tab delimited file, for geological modeling or mine planning. EZ-ID software can be used on unknown samples found on outcrops, in pits, hand samples, cores, anywhere mineral identification is performed. EZ-ID features include:

- ◆ Fast and accurate identification of an unknown mineral to a known library sample
- ◆ Easy-to-use—just collect your scan using the oreXpress and see results in real time
- ◆ Simple, consistent user-interface
- ◆ Software provides a weighted score for best matches
- ◆ Include or exclude spectral regions of interest for optimal results and display results and scores in multiple columns in different combinations for comparison
- ◆ Fast scanning is perfect for collecting/identifying target minerals in a core logging shack

EZ-ID works through the DARwin SP Data Acquisition software interface for all our spectrometers and spectroradiometers. You can select the Match Analysis function or Library Builder.

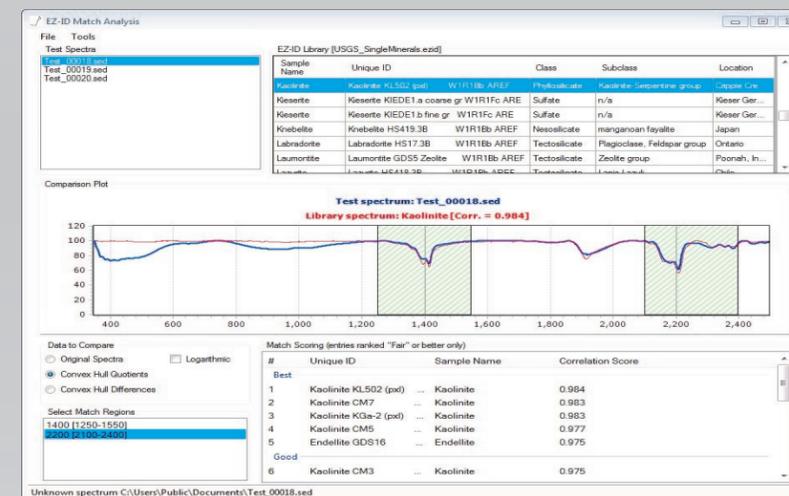


## Sample scans identified with EZ-ID



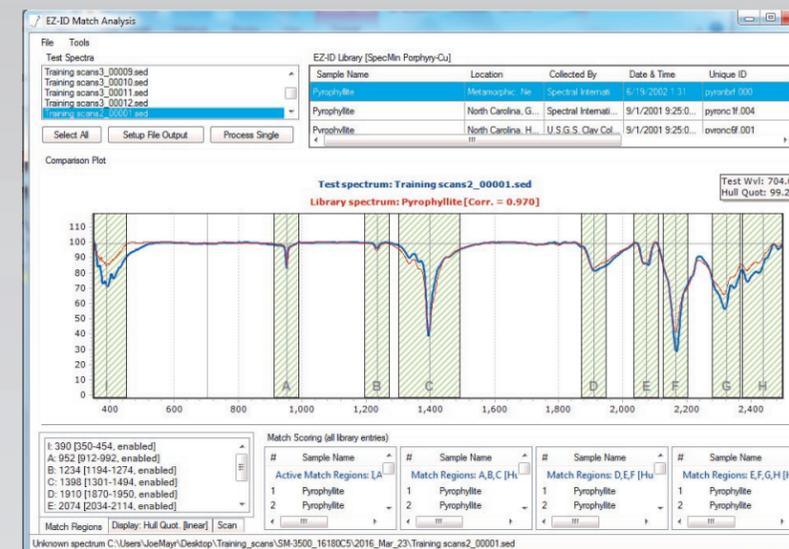
### Alunite

Alunite identified by EZ-ID with a match to the SPECMin library—available along with the USGS library. The sample shows the characteristic absorption features near: 1440, 1475, 1760, 2165/2206, 2320 nm.



### Kaolinite

Kaolinite (a clay) showing characteristic absorption features at 960, 1400/1412, 2100/2206, 2310, 2350, 2380nm. In this sample there seems to be some iron in the mix as represented by the large feature around 400-500nm and a large water feature at 1900nm.



### Pyrophyllite

This sample of pyrophyllite shows the characteristic features at 1396, 2066/2078, 2168, 2320nm.



Using the multiple scoring column feature in EZ-ID we have been able to fine tune our analysis by focusing on different combinations of features, all in one display.