**STANDARDS**

The team plans to investigate the use of the following materials for use as standards. Synthetic minerals (used to accommodate planetary protection concerns) would provide a way to verify functionality of the instrument after landing, quantify any contribution from the martian atmosphere to the EDS signal, and monitor the health of the instrument over time. The listed minerals will be assessed to determine their usefulness in this manner and reduced accordingly.

- **Anorthite**
- **Basaltic Glass**
- **Dolomite/Siderite**
- **Gypsum**
- **Hematite**
- **Jarosite**
- **Kamacite**
- **Magnetite/Titanomagnetite**
- **Montmorillonite**
- **Olivine**
- **Pyroxene**
- **Sodium Chloride**
- **Taenite**
- **Teflon**

**FUTURE WORK**

The team is refining the Concept of Operations to incorporate a feature recognition library. This library will help autonomously characterize the samples and accommodate an expected quick turn-around between daily downlink and uplink activities.

At the end of this PICASSO effort, the team will continue development of the instrument through the Maturation of Instruments for Solar System Exploration (MatrisSE) ROSES opportunity. The team would like to thank the PICASSO program and reviewers for supporting our project, as well as the survey respondents!

**REFERENCES**