

Recent Advances in Portable Mass Spectrometry Systems at Kennedy Space Center

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Portable mass spectrometer systems provide a wealth of information when troubleshooting equipment. One of the primary challenges of mass spectrometry is the ability to transport the system to the equipment. This presentation will provide a variety of examples of unique solutions to solve many operational needs for mass spectrometry at NASA's Kennedy Space Center. Examples will discuss system portability, ruggedness, sampling properties. Individual components comprising the systems will be discussed so as to evaluate their effectiveness. Focus will also be placed on the ability to quickly modify the hardware for various applications. Finally, attention will be brought to the importance of a generalized software platform in achieving the many needs of portable field analysis.