

ESLumen

FULL ELEMENTAL COVERAGE

LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS)

FEATURES

- DETECTION OF EVERY ELEMENT ON THE PERIODIC TABLE
- DETECTION OF DIFFICULT ELEMENTS
 - INCLUDING H, O AND F
- MULTIPLE CONFIGURATIONS AVAILABLE DEPENDING UPON APPLICATION NEED



Complementary technique for LA-ICP-MS, especially when performing imaging experiments on a quadrupole ICPMS

Expands elemental coverage – high ionization potential elements such as F and atmospheric elements such as H, N and O.

Increases the dynamic range of laser ablation experiments to cover sub-ppb (LA) to % range (LIBS)

- Requirements to add LIBS: TwoVol3 laser ablation chamber and iolite software

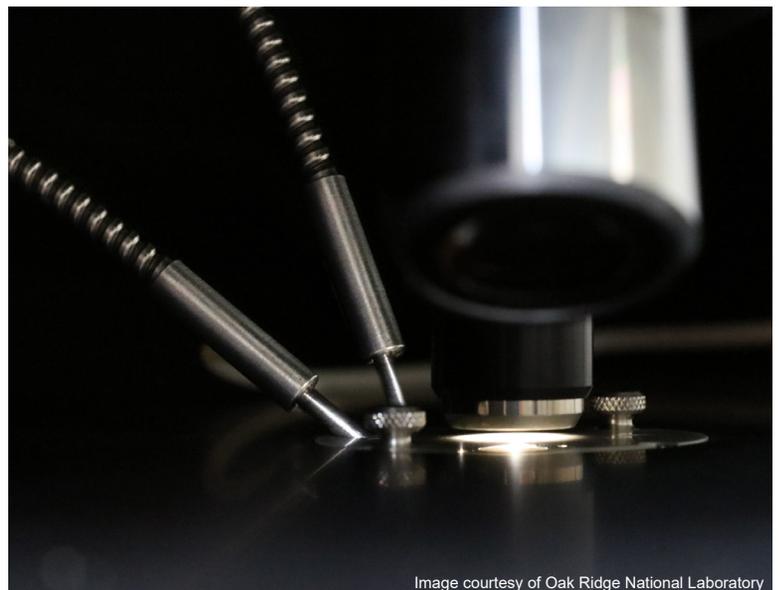
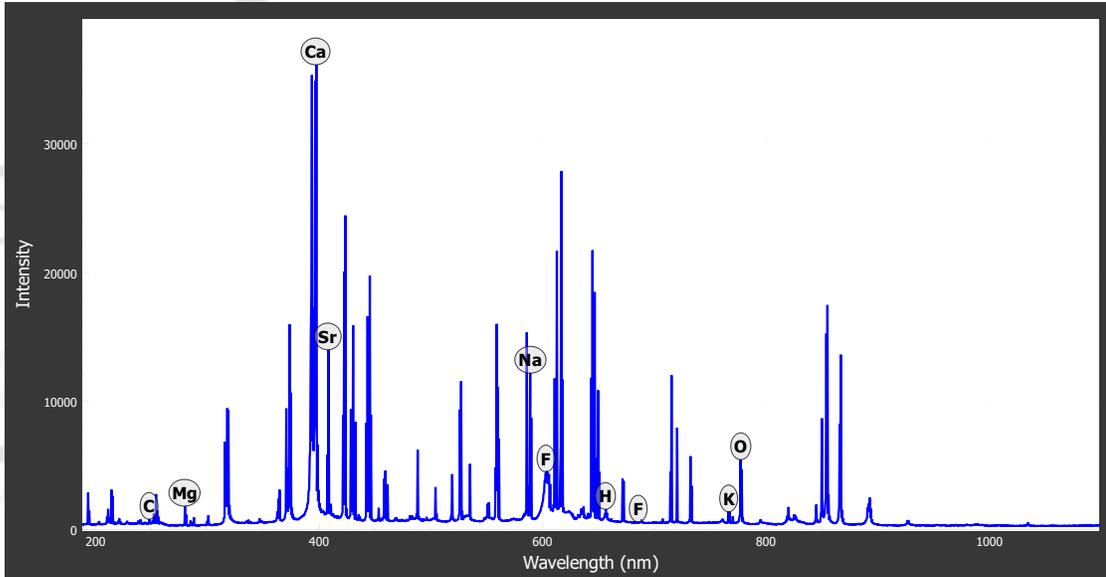


Image courtesy of Oak Ridge National Laboratory

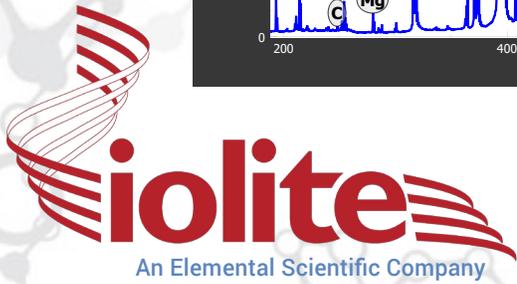
Image of the fiber optics from a Lumen and ICCD detector connected to the TwoVol3

LIBS-ICPMS – PROVIDES FULL ELEMENTAL COVERAGE

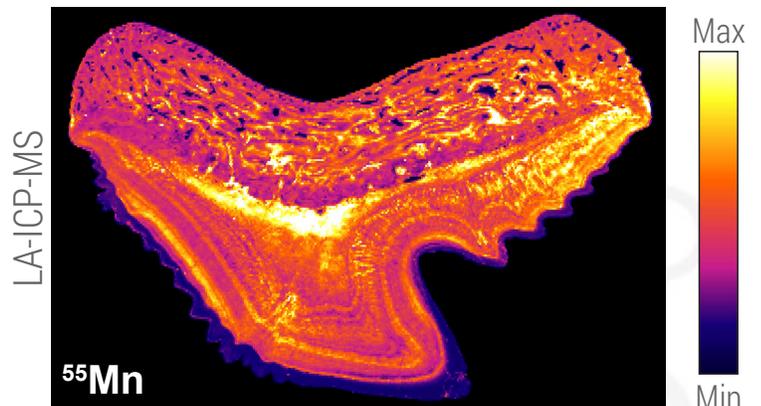
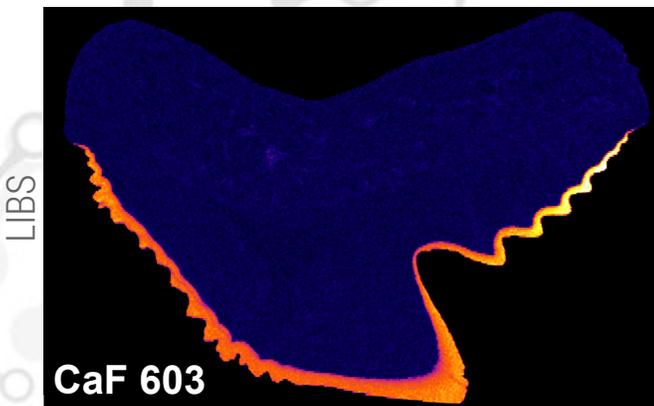
iolite software transports LIBS and ICPMS data into a single data processing software



Peak identification of LIBS spectrum using iolite software



Tiger Shark Tooth



Simultaneous LIBS and LA-ICP-MS



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