

## Laser Ablation Directly into a Surface Liquid Junction

### **Disclosure Number**

201102579

### **Technology Summary**

Laser desorption (LD) or ablation (LA) in transmission or reflective geometry, at an acute, right or obtuse angle, directly into a liquid junction at the surface of interest that is formed between a solvent dispensing and retrieving unit and the surface. These processes take place under ambient conditions or possibly in a controlled environment. Analysis is necessarily limited or specific for material that is not dissolved simply by contact of the solvent to the surface – this distinguishes the method from our other liquid extraction surface sampling probe approaches. The probe to surface can be a wall-less liquid junction or a sealing surface sampling probe. The ablated surface material collected in the liquid is available for further processing or direct analysis by one or more techniques including spectroscopic and mass spectrometric methods or others.

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