

# Nanoliter

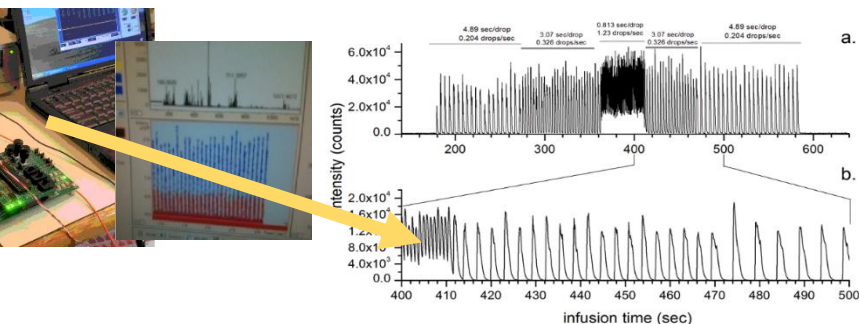
## Forensic, Radiochemistry and Defense Mass Spectrometry Breakthroughs. 100% ESI Sample Introduction, MALDI Prep or non-touch Dispensing using the **SAME** nanoLiter Cool Wave<sup>®</sup> IBF Dispenser.

Drew Sauter and Andrew D. Sauter III, nanoLiter LLC, 217 Garfield Dr., Henderson, NV 89074, USA, [adsauterjr@gmail.com](mailto:adsauterjr@gmail.com). Video demo ? Call 702-882-5413..

Fastest MS Throughput in the World!  
100% Input Efficient, LITERALLY.

Analyze ALL Lanthanides in a nL drop.  
(Actinides probable. NO PLASMA! See Analytical Chem., 6/13)

Analyze, ALL Lanthanides in a single 25 nL drop at 2 Hz! (Actinides probable too!) to fg, ag's.  
Demoed 6400 analysis/day @ res = 20k @ INL.. Data from the 6/13 AC paper. See below.  
Read 14+ peer review papers, see videos at [nanoliter.com](http://nanoliter.com)



SAVE EVIDENCE using nLs.  
MS Analyze **viscous** liquids.

Shoot 100%, viscous, etc. liquids into/near ESI's  
Shoot samples onto MALDI plates w/ **same tool!**  
MAJOR sensitivity increases due to great crystals.  
NIST demoed excellent SIMS results for explosives, drugs.  
NIH found PTM's of a tublin in brain cancer sample via MALDI.  
Wisconsin did single cell MALDI finding 6 new neural proteins.  
Illinois flew nLs into **levitated** uLs. See video playing.



NEW! US Army,  
nL Agent Dispenser.

Dispense viscous agents, whole BLOOD, cells serum, organelles, urine, DNA, other polymers, glues, coffee, explosives, mixtures, etc., into an ESI, get STANDARD ESI mass spectra. Depositions for TLC, PCR, IR, uV-vis, misc. sample handling w/ special IBF inducto tips.

With GoPro<sup>®</sup> Camera!



Clients, customers: U's of Ill, WI, CA, Cinn., MUSC, Wash. U., USF, USU, US Army APG, ECBC and Natick, Abbott, Biogen Idec, Genentech, Amgen, Hitachi, Allergan, Sciex, Spark, Douglas, NIH, NIST, USDOE INL, Ga Tech, UNH, Duquesne and more.

New cell phone directed LCMS power supply! Ask to see video clip.