Thermo Fisher
S C I E N T I F I C

VENDOR WEBINAR:

Taking Advantage of the Latest Developments in GC- and LC-High Resolution Accurate Mass MS for Both Quantitative and Non-Target Analysis in Food Safety

Taking advantage of the latest developments in GC- and LC- High Resolution Accurate Mass MS for both quantitative and non-target analysis in Food Safety

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The first section of the presentation will demonstrate the benefits of high resolution accurate mass and the analytical flexibility provided by Thermo Scientific™ Orbitrap Exploris™ GC coupled with solid phase micro-extraction (SPME) with Arrow technology to assess the volatile profile of intentionally adulterated and native oregano samples. Full scan non-targeted analysis combined with powerful informatics opens up new possibilities for detecting food fraud.

The second section of the presentation will describe the multi-residue analysis of a target pesticides in extracts of garlic and cumin using the Thermo Scientific™ Orbitrap Exploris™ 120 Mass Spectrometer within Full scan, MS2 and with Thermo Scientific™ AcquireX background exclusion for cleaner spectral while using software with built-in workflows for streamlining method development. The same acquired data was successfully used to screen for unexpected compounds. The presentation will also include information how new features provide improved robustness, sub ppm mass accuracy and easier maintenance in a compact system.