

November 7, 2013 (14:30-15:30)



VENDOR SEMINAR:

A NEW HIGH-SPEED GCMSMS SYSTEM FOR TARGETED AND UNTARGETED FOOD ANALYSIS

Fast, easy and efficient untargeted and targeted food analysis by using a novel high-speed GC-MSMS system

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The present seminar is focused on the use of a novel «unified» high-speed triple quadrupole mass spectrometer, under fast and very fast GC conditions. The MSMS device is capable of rapid operation under full-scan conditions, generating MS-database matchable spectra; additionally, the new instrument can produce MSMS spectra with frequencies of up to a 100 Hz. Moreover, the MS system can also be operated in the simultaneous full scan/MSMS mode. The latter characteristic makes untargeted and targeted analysis possible, in the same application. A series of fast GC-MSMS food applications will be shown, demonstrating the exceptional features of the instrument. The final part of the seminar will be devoted to the use of the tandem mass spectrometer under extreme GC conditions, namely those generated in comprehensive 2D GC experiments.

A novel GCMSMS system for highest sensitivity, acquisition speed and ease of use

Rebecca Kelting

For Food safety analysis sensitivity is one of the important factors. The GCMS-TQ8030 triple quadrupole mass spectrometer starting from the high efficiency ion source to the patented overdrive lens in front of the detector matches highest requirements. The advanced scanning speed protocol allows to acquire high speed data (20000 amu/sec in scan mode , 600 transitions/s in MSMS). No cross talk is measured in MRM mode. Easy maintenance and user guiding pictures (MSNavigator in the GCMSsolution software) reduces downtime to a minimum.