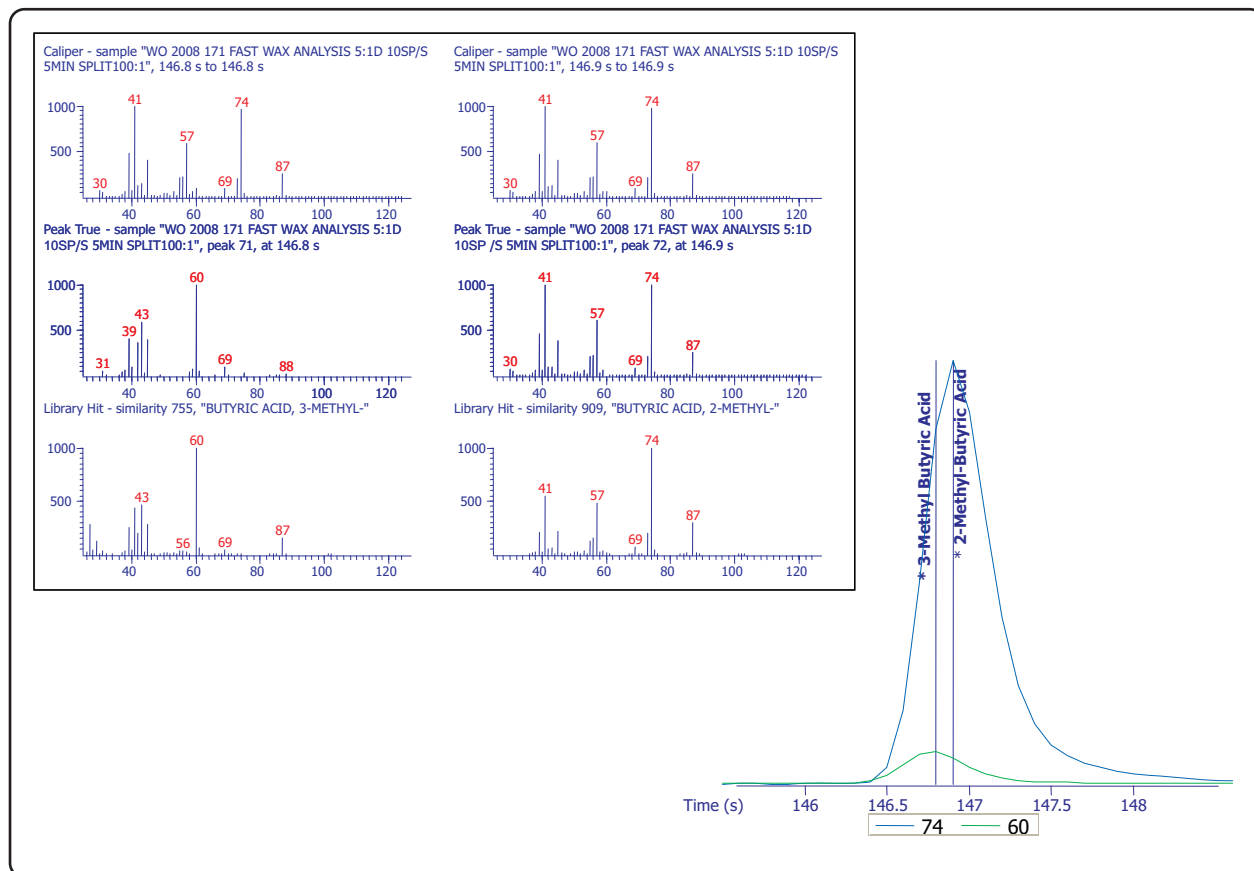


Deconvolution of Geometric Isomers by GC-TOFMS Analysis of Flavor Extract

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Application Snapshot



The unique mass ion chromatograms for 3-Methyl Butyric Acid at m/z 60 and the unique ion mass at m/z 74 for 2-Methyl Butyric Acid are illustrated. This example shows the deconvolution and identification of 3-Methyl Butyric Acid at a relatively low concentration which is buried completely under the 2-Methyl Butyric Acid peak. These two compounds are geometric isomers that share the same molecular weight, however have different mass spectral fragmentation patterns as indicated by the mass spectral library matches.

Column:
20 m x 0.18 mm x 0.18 μ m DB-WAX

TOFMS:
30 to 350 m/z @ 10 spectra/s

For questions on this analysis e-mail us at:
life_science@leco.com

For a complete listing of snapshots and application notes visit us on the web at www.leco.com



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