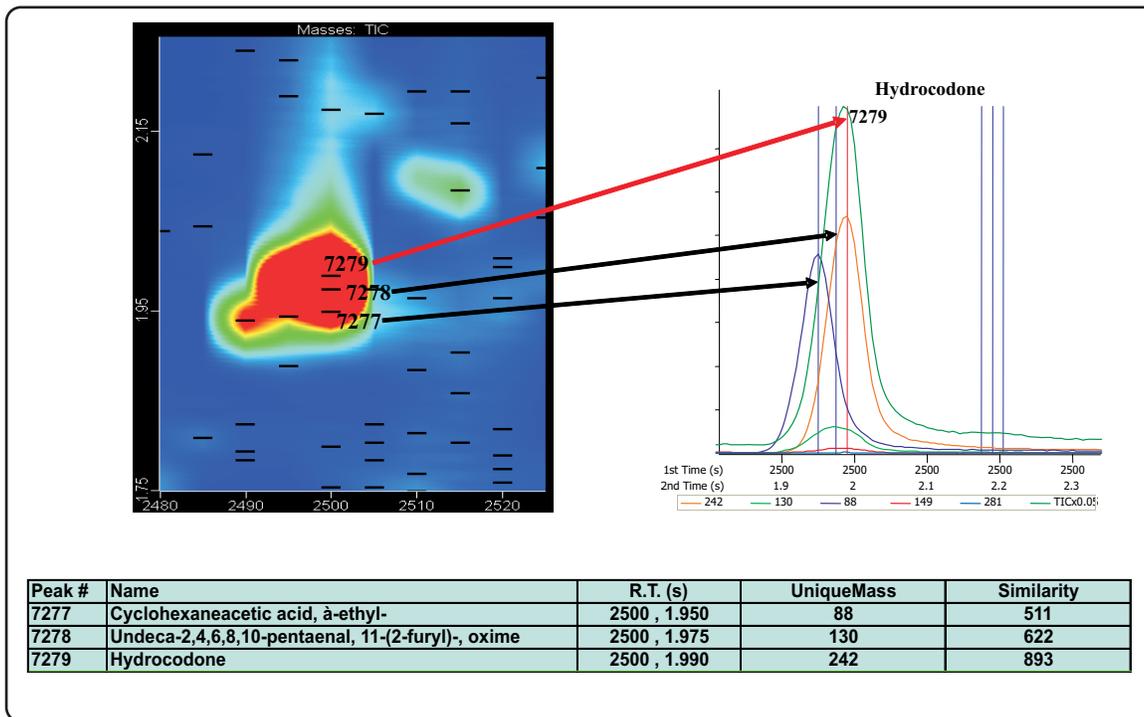


Example of True Signal Deconvolution[®] in an Automated SPME-GCxGC-TOFMS Analysis of Non-Derivatized Drugs in Urine

Life Science and Chemical Analysis Centre
LECO Corporation, Saint Joseph, Michigan USA



The illustration above shows the benefits of time-of-flight mass spectrometry to allow fast acquisition rates which provide the data density and non-skewed mass spectra required to facilitate deconvolution algorithms that successfully identify trace components even in heavy sample matrices. Hydrocodone (Peak 7279) is identified with a similarity of 893 as well as 2 other components in approximately 40 milliseconds.

Columns:

30 m x 0.25 mm x 0.25 µm Rxi-5MS
1.5 m x 0.18 mm x 0.20 µm Rtx-200

TOFMS:

45 to 550 m/z @ 200 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

