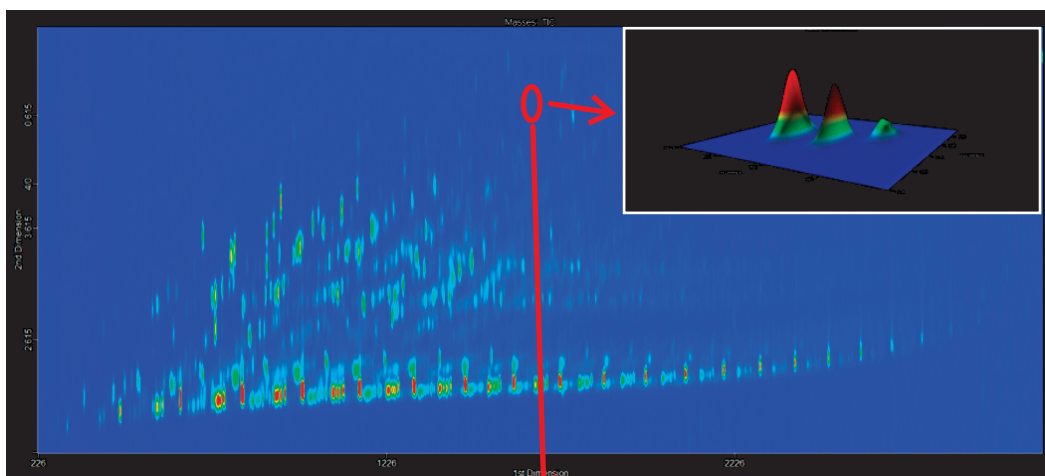
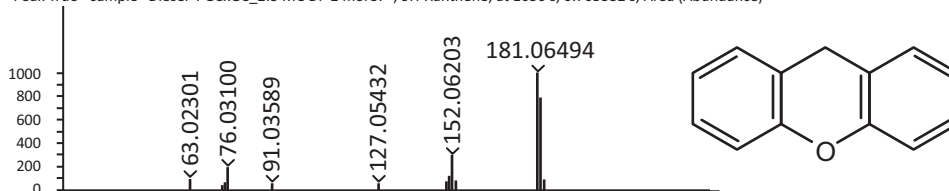


PEGASUS® GC-HRT 4D

LECO, your trusted leader in providing innovative solutions for your most challenging samples, is proud to introduce the latest development in comprehensive two-dimensional gas chromatography (GCxGC). The Pegasus GC-HRT 4D combines the industry's highest performance time-of-flight mass spectrometer with established GCxGC technology, giving you an unprecedented ability to investigate complex samples and identify unknown analytes. Discover more analytes than ever before, and identify components with the ultimate confidence.



Peak True - sample "Diesel 4 GCxGC_2:3 MC DP 2 more!", 9H-Xanthene, at 1650 s, 0.765532 s, Area (Abundance)



Library Hit - Similarity: 875 - Library: mainlib - 9H - Xanthene, Abundance

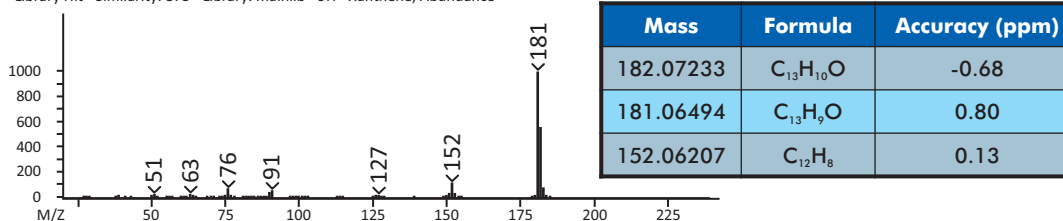


Figure 1: A diesel fuel sample run on the Pegasus GC-HRT 4D. A seemingly empty portion of the 4D chromatogram shows an important oxygen-containing species. The 3D inset shows an expanded Xanthene region of the structured contour plot. The corresponding deconvoluted mass spectrum is shown underneath with its library hit demonstrating excellent similarity to the library spectrum and 1 ppm mass accuracy for the molecular ion and its deconvoluted fragments.

High resolution, GCxGC technology is paired with LECO's ChromaTOF-HRT[®] brand software which utilizes High Resolution Deconvolution™ (HRD™) for component detection, NIST and Accurate Mass Library searches, pseudo-molecular ions (via Chemical Ionization), retention time matching, isotope patterns, and mass accuracy of deconvoluted fragments—all for confident identification. All of these features are combined within a complete package for data acquisition, processing, and reporting.

With mass accuracies of 1 ppm and peak capacity potential which is at least two times greater than any other mass spectrometer currently available in the marketplace, the Pegasus GC-HRT 4D is an innovation that has been eagerly awaited by scientists the world over.

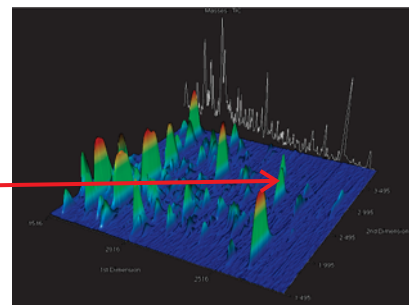
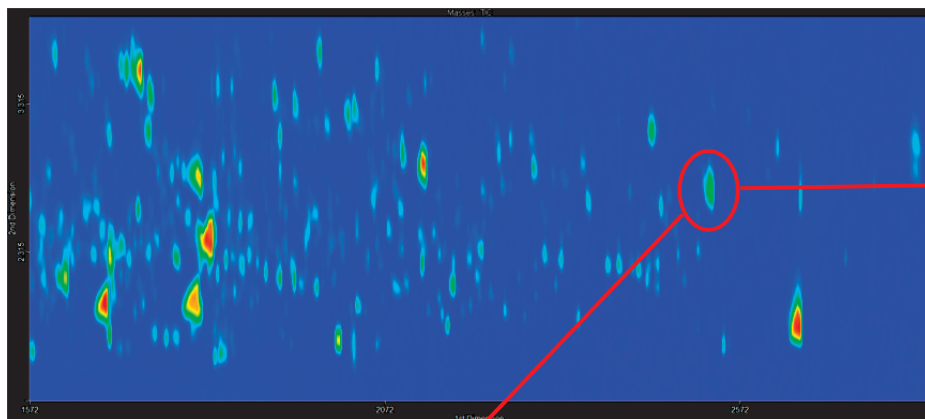


Figure 3: Pegasus GC-HRT 4D chromatogram of yeast sample (HR-CI).

Peak True - sample "CI GCxGC Yeast Sigma SL 1uL", Peak 136, at 2532 s, 2.71 s, Area (Abundance)

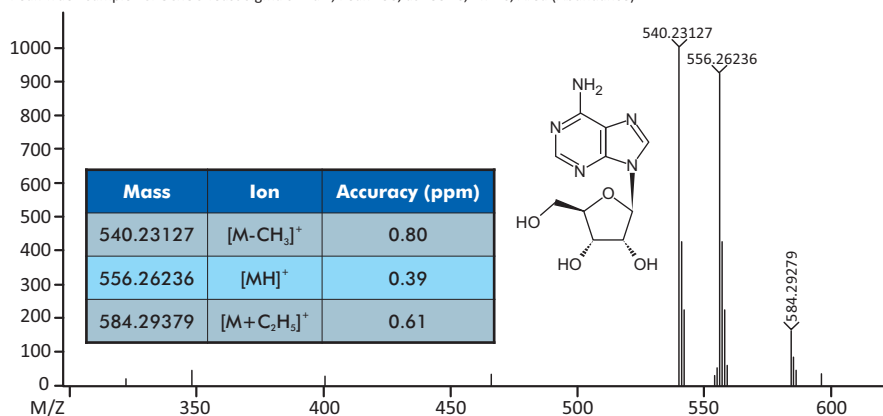


Figure 2: Example of a Pegasus GC-HRT 4D chromatogram however this is run in HR-CI mode. This notoriously difficult to chromatograph sample (yeast), is cleanly separated into its constituent parts revealing a level of detail that is not seen in 1D chromatograms. The mass accuracy of the GC-HRT 4D is maintained in HR-CI mode with adenosine's pseudo molecular ion and related species.

Specifications and part numbers may change.
 Consult LECO for latest information.
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 Delivering the Right Results