

Cannabis Potency Test with the Infinity II 1260 Prime / LC/MSD iQ and DAD

Application Note Abstract

HPLC with UV detection is commonly used to measure cannabinoids in the various products. However, CBD oils often have coeluting compounds such as terpenes that may interfere with accurate identification and quantitation of the target analytes when using only UV detectors. The addition of the LC/MSD iQ adds the specificity of mass confirmation to mitigate these interferences. This application note describes the separation and detection of 11 cannabinoids under 10 minutes using both DAD and MSD detectors. Correction for decarboxylation of the acid components is included in the reports of commercial samples.

Instrument configuration

Agilent Infinity II 1260 Prime LC and InfinityLab LC/MSD iQ with DAD

The system was equipped with a vial sampler, an integrated column compartment and integrated sample cooler and was connected to the 1260 Infinity II Diode Array Detector WR and LC/MSD iQ. The OpenLab CDS Software 2.4 was used for acquisition and data processing.

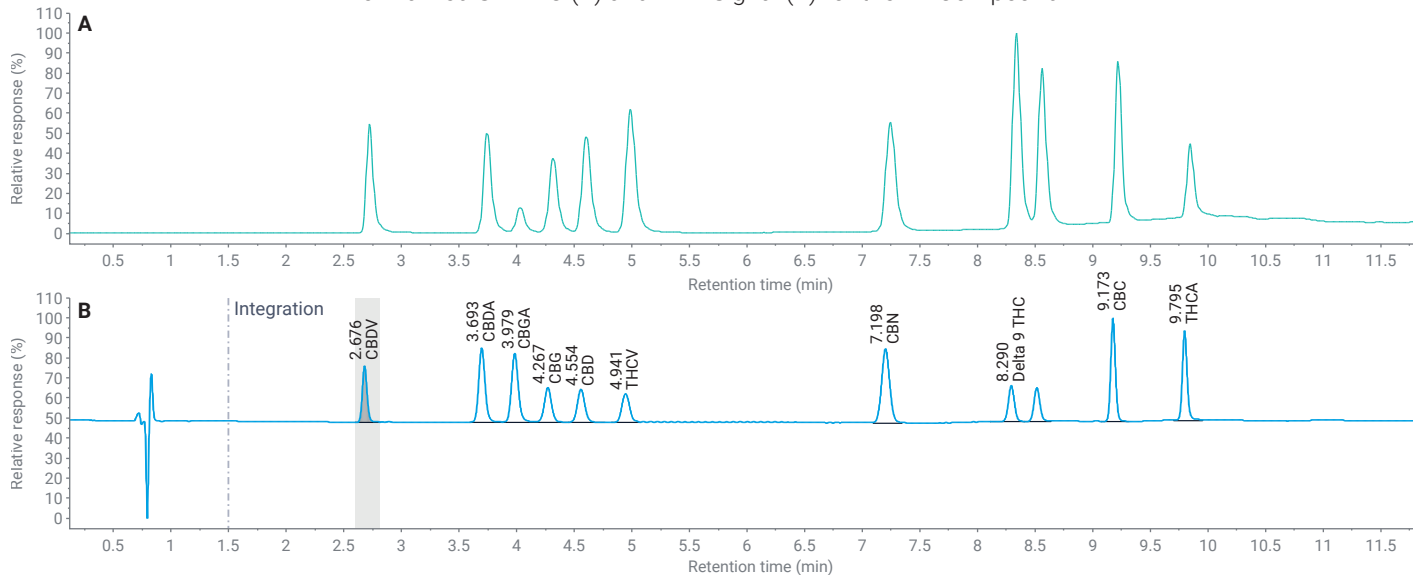


Detailed application note



Quantitation of Phytocannabinoid Oils Using the Agilent Infinity II 1260 Prime/InfinityLab LC/MSD iQ LC/MS System

Normalized SIM TIC (A) and DAD Signal (B) for the 11-Compound Mix



For more information visit <http://www.agilent.com/chem/cannabis-testing-emethods>

Agilent products and solutions are intended to be used for cannabis quality control and safety testing in laboratories where such use is permitted under state/country law.

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