

Terpene Detection by Liquid Injection Using the Intuvo/ALS/5977 System

Application Note Abstract

Common terpenes found in cannabis include monoterpenes and sesquiterpenes. This application note describes the detection of 40 terpenes in 30 minutes, using liquid injection. This technique assures that sesquiterpenoids such as α -bisabolol are accurately detected and not lost as it often happens with headspace sampling. The application note details sample preparation, matrix matched calibrant preparation with internal standard, regression analysis (~4-500ug/ml), provides intra- and inter-day precision and accuracy data, LODs and LOQs. For more detail, please see the application note below.

Instrument configuration

Agilent Intuvo 9000 GC and the 7650A 50 position Automatic Liquid Sampler connected to a 5977B MSD.

The GC was equipped with a MultiMode Inlet (MMI) and backflush. The 5977B had an InertPlus source and operated in SIM mode. Data were collected with MassHunter B.10 GC/MS Acquisition software, and data analyses were performed with MassHunter Quantitative Software B.10.1.

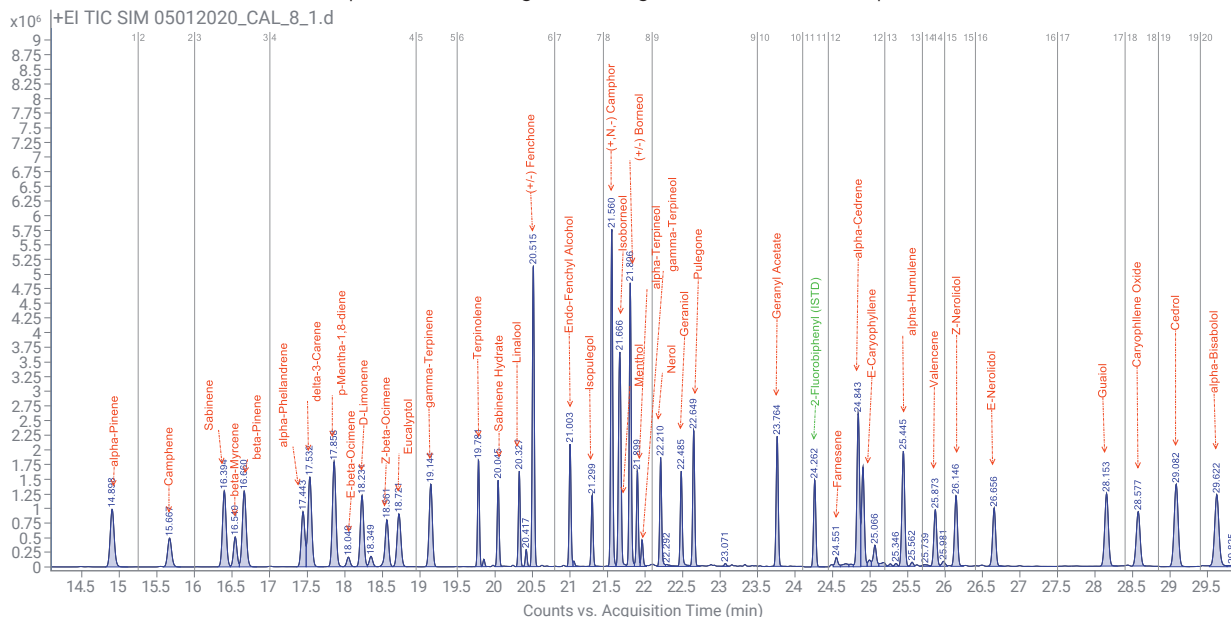


Detailed application note



Terpenes Analysis in Cannabinoid Products by Liquid Injection Using the Agilent Intuvo 9000/5977B GC/MS System

Terpene Chromatogram of High Calibrators in Hempseed Oil



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

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.

DE.8193402778

This information is subject to change without notice.

© Agilent Technologies, Inc. 2020
Published in the USA, June 1, 2020
5994-2128EN