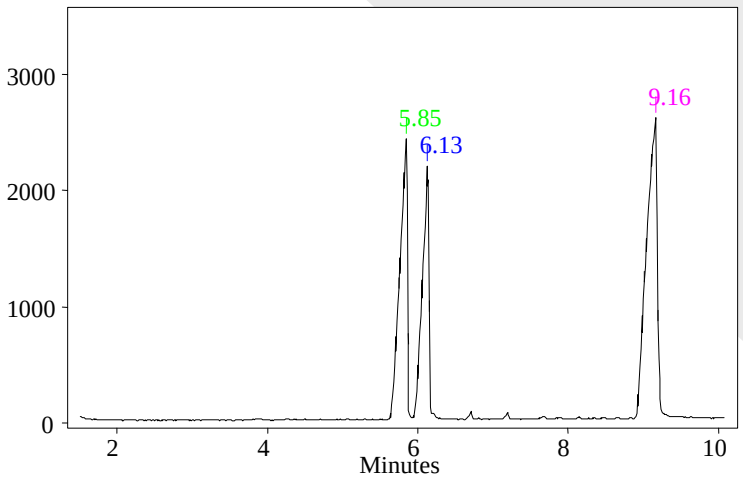
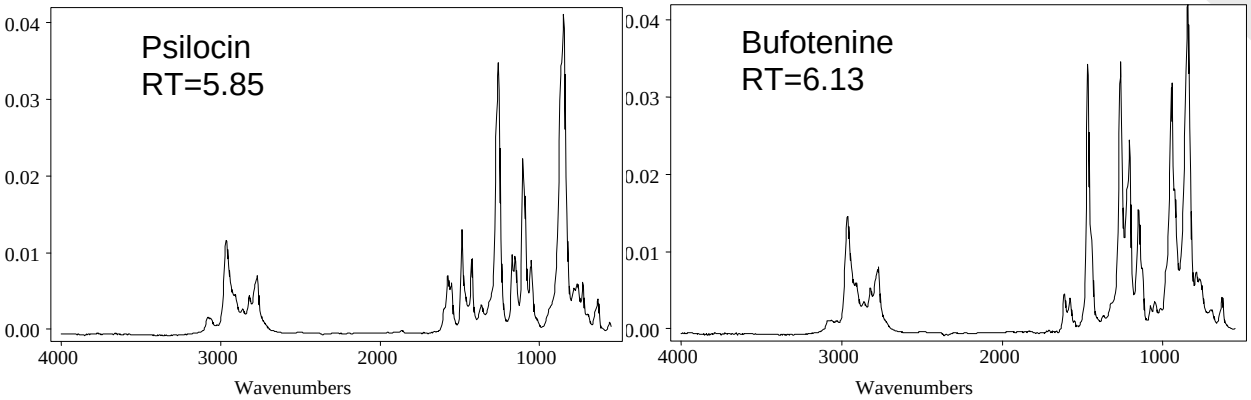
Infrared Detector

DIFFERENTIATION OF PSILOCIN AND BUFOTENINE

Introduction

When analyzing bufotentine by GC/MS the mass spectrum of its positional isomer psilocin is so similar it can be difficult to differentiate. Both compounds are controlled under Schedule I of the US Controlled Substance Act so it is important to separate and identify both compounds with unique IR spectral data.





ASAP, LLC
1511 Neave Street
Covington, KY 41011
ph: 877-987-2800 or
859-581-6990
fx: 859-581-6821
info@asapanalytical.com
www.asapanalytical.com
date founded: 1999

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Infrared Detector

Conditions:

Gas Chromatograph: 200°C for 4.5 min to 290°C at 17.5°/min for 3 minutes
Injection: Splitless
Column: HP-5 30m x .32 x .25
IRD: scan from 4000 to 550 wavenumbers
Optical Resolution: 8 cm^{-1} wavenumber
Transfer Line Temperature: 280°C

Summary

The vapor phase infrared spectra can provide unique information to assist in the differentiation of psilocin, bufotenine and psilocybin.

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