



Cannabis Breath Testing: Technology & Analytical Considerations

2024 IACT Workshop
Sponsored by the SOFT/AAFS
Oral Fluid Committee

Location: La Jolla, CA

Date: Friday, April 26th 2024

Time: 08:00 – 12:00 pm

Workshop Chairs: Jason Hudson, Ph.D., F-ABFT and Jasmine Maxwell, MSFS

Target Audience: Forensic practitioners of intermediate level of experience

Abstract:

Cannabis breath testing has emerged as a critical area of research and development, driven by the increasing legalization of cannabis for medicinal and recreational purposes in various regions. The primary objective of cannabis breath testing is to establish a reliable and non-invasive method for the collection of THC in breath samples and for the assessment of recent cannabis use. There are multiple challenges inherent in this pursuit such as encompassing the complexities of cannabis pharmacokinetics, collection of cannabinoids in a breath sample, and the need for accurate, sensitive, and specific screening and confirmation techniques. This workshop is designed to provide background information regarding the pharmacokinetics and pharmacodynamics of cannabinoids in breath, present the current technology for collection devices from commercial vendors, and discuss the necessary laboratory workflows and analytical considerations when testing these samples.

Learning Objectives:

1. Inform the forensic community of the new cannabis breath testing technology.
2. Provide insight into the technology behind THC breath capture/testing devices.
3. Explain the analytical processes in the laboratory to test cannabis breath samples.

Course Specifics: The course fee includes registration, all course materials, attendance certificate, and breaks. Attendees will be responsible for travel, lodging, and meal expenses.

Agenda

8:00 – 8:15 am	Welcome & Overview	Dr. Jason Hudson/Jasmine Maxwell
8:15 – 9:00 am	Pharmacokinetics and Pharmacodynamics of Cannabinoids in Breath	Dr. Marilyn Huestis
9:00 – 9:45 am	Science & Technology Behind Cannabis Breath Testing: Hound Labs, Inc	Dr. Deb Mitra
9:45 – 10:30 am	Science & Technology Behind Cannabis Breath Testing: Cannabix Technologies Inc.	Dr. Bruce Goldberger
10:30 – 10:45 am	Break	
10:45 – 11:30 am	Analytical Workflows & Interpretation	Dr. Jason Hudson
11:30 – 12:00 pm	Panel Discussion: Scientific and Legal Perspectives on Marijuana Breath Testing	All Speakers