



# FTIR Library for Drug Identification

## TICTAC ATR FTIR Drugs Library

Table 1. Drugs included in the Agilent TICTAC ATR FTIR drugs library.

Classification	Number
Stimulants (amphetamines, cathinones, empathogens, and so on)	215
Synthetic cannabinoids	116
Miscellaneous (cannabinoids, arylcyclohexylamines, analgesics, local anesthetics, poppers, solvents, acidifiers, alkalizers, fat burners, nootropics, other medicines, and substances detected in drugs and fake drugs)	77
Opioids	65
Depressants	56
Hallucinogens/tryptamines	52
Contaminants/adulterants/diluents/potentiates/precursors	35
Dissociatives	14
Anabolic steroids/prohormones	13

Agilent offers a selection of FTIR spectral libraries for routine, mobile, and handheld FTIR systems, covering a wide range of applications.

### What's new? TICTAC ATR FTIR drugs library

Accurate ID of narcotics, precursors, and cutting agents is critical for a range of decisions across counter-narcotics operations. With the threat landscape constantly changing as new materials and methods emerge, access to a comprehensive and up-to-date spectral library to accompany detection instrumentation is critical.

Agilent offers the comprehensive TICTAC FTIR spectral library of new psychoactive substances (NPS) and other drugs as part of its forensics library selection. TICTAC spectral libraries focus on NPS but also include traditional drugs of abuse and substances related to drugs and drug abuse, such as contaminants, adulterants, diluents, potentiators, precursors, and substances passed off as drugs (Table 1). TICTAC spectral libraries are updated every year. The 2022 release includes 643 drugs and drug-related substances.\*

\* The vast majority (83%) of spectra in TICTAC libraries are created from certified reference standards. Where these do not exist, street samples (qualified by GC/MS, NMR, or LC/MS/MS) are used.

For more information, visit:

[www.agilent.com](http://www.agilent.com)

Contact Agilent if you are interested in using the TICTAC ATR FTIR drugs library with your Agilent routine, mobile, or handheld FTIR systems.

### FTIR forensics analyzer package

The Agilent FTIR forensics analyzer package has been created to address the ever-growing need for portability, flexibility, and ease of use within the forensics community. In addition to its class-leading performance and reliability, the Agilent FTIR forensics analyzer's comprehensive forensics database now benefits from the option to add the TICTAC ATR FTIR drugs library.



### What is TICTAC?

The TICTAC ATR FTIR drugs library is created by TICTAC Communications Ltd., a UK-based company with a long and trusted history as a specialist provider of drug identification, analysis, and information products, and of services to the law enforcement and healthcare sectors. TICTAC's data and libraries are used worldwide.



[www.agilent.com](http://www.agilent.com)

RA44770.4218055556

This information is subject to change without notice.

© Agilent Technologies, Inc. 2022  
Published in the USA, September 20, 2022  
5994-5260EN