



## FT-IR SPECTROSCOPY

# B-TICTAC

## TICTAC ATR FT-IR Drug Library

Innovation with Integrity

### What the TICTAC library offers:

The ATR FT-IR library has been carefully compiled by TICTAC Communications Ltd. using their enormous experience in street drugs analysis.

### It contains spectra of a total of 917 substances.

It exclusively contains compounds that are likely to be encountered when testing contemporary street drugs. In addition to the drugs themselves, it also includes new "legal highs" as well as diluents and contaminants. The library is composed of highest-quality spectra measured by TICTAC using a Bruker ALPHA II system and a Platinum diamond ATR module. As new drugs constantly enter the market (Fig. 1) the library is updated about once per year.

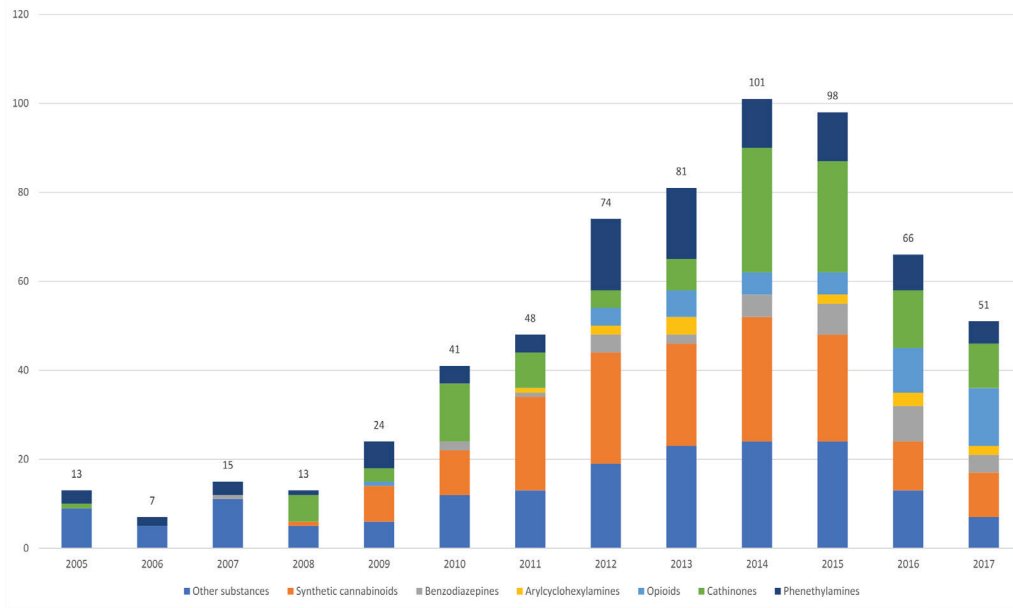
### It contains drugs such as:

- Anabolic steroids / prohormones
- Analgesics / local anaesthetics
- Depressants
- Dissociatives
- Hallucinogens / tryptamines
- Opioids
- Poppers
- Stimulants (amphetamines, cathinones, etc.)
- Synthetic cannabinoids
- Others like: cannabinoids, arylcyclohexylamines, solvents, acidifiers, alkalisers, fat burners, nootropics, other medicines, SERMS, SARMS and miscellaneous substances detected in drugs and fake drugs



## It also contains artifacts such as:

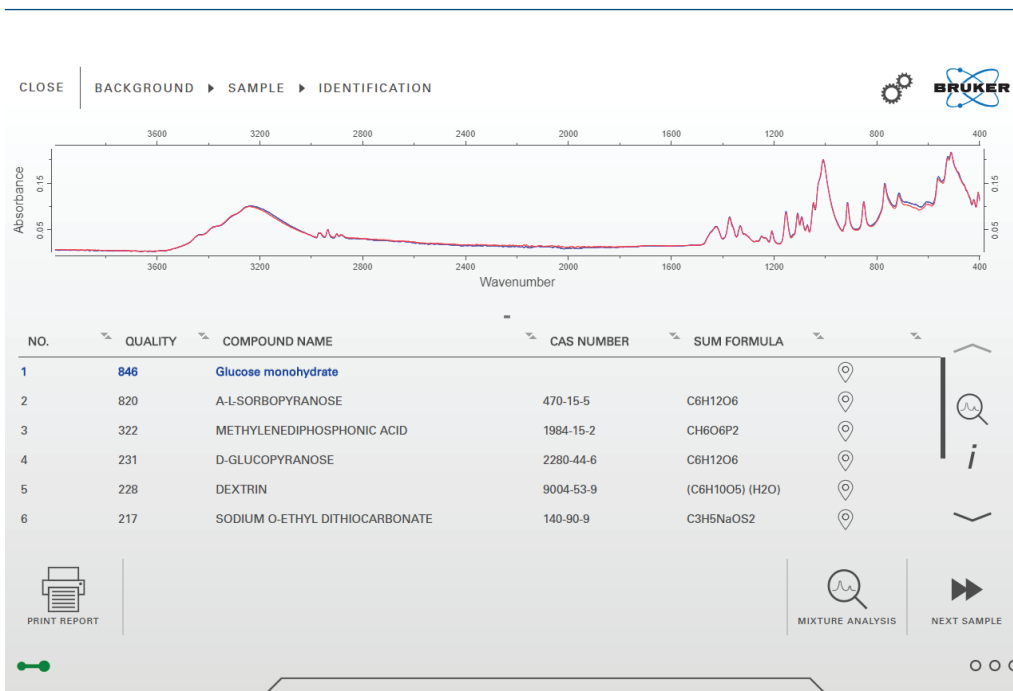
- Diluents (organic and inorganic) e.g. boric acid
- Household products e.g. sugar
- Contaminants
- Adulterants
- Potentiates
- Precursors/plasticizers, antistatic agents etc.



**Fig. 1**

Number of new psychoactive substances notified to the EU Early Warning System for the first time, 2005–17.

Source: *European Monitoring Centre for Drugs and Drug Addiction (2018), European Drug Report 2018: Trends and Developments*, Publications Office of the European Union, Luxembourg.



**Fig. 2**

Analysis result in OPUS TOUCH. The integrated touch-PC makes ALPHA II and INVENIO even more robust and compact.



**Fig. 3** Analysis report of the identification of street drug components using the mixture analysis function of the OPUS software together with the TICTAC FT-IR drug library.

**Basic library:**

• **B-TICTAC  
TICTAC ATR FT-IR Drug Library**

Includes 778 ATR spectra from new drugs, new psychoactive substances (NPS), synthetic cannabinoid receptor agonists, and legal highs. The library is expanded constantly by new drugs entering the market. Updated versions of the library are released typically once per year.

**Upgrade option:**

• **B-TICTAC-UP**

The 2023 update adds 135 new substances to the previous release of the TICTAC ATR FT-IR Library.

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 ISO 14001 and ISO 50001 certified.**

