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Title:2D signature for detection and identification of drugs

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Abstract:The method of spectral dynamics analysis (SDA-method) is used for obtaining the 2D THz signature of drugs. This signature is used for the detection and identification of drugs with similar Fourier spectra by transmitted THz signal. We discuss the efficiency of SDA method for the identification problem of pure methamphetamine (MA), methylenedioxyamphetamine (MDA), 3, 4- methylenedioxyamphetamine (MDMA) and Ketamine. © 2011 SPIE.