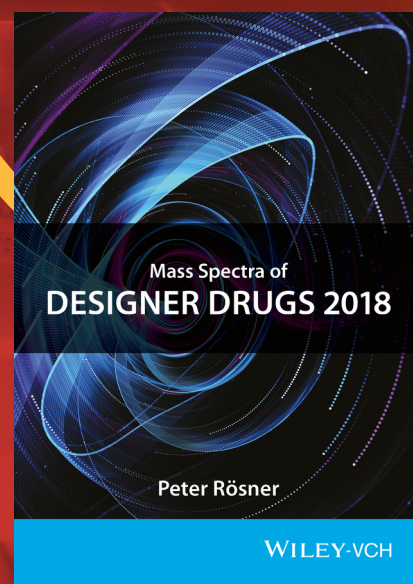


Mass Spectra of Designer Drugs 2018

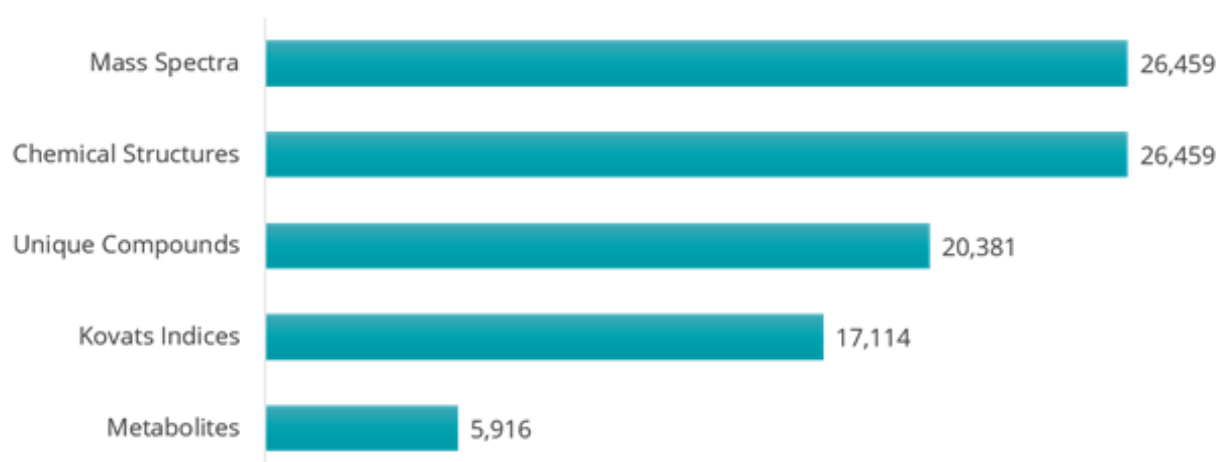
Peter Rösner



Introduction

Mass Spectra of Designer Drugs is the largest collection of chemical signatures of NPS and drugs of abuse in the world. This impressive mass spectral library was developed to support forensics and toxicology labs to combat this global health epidemic.

The 2018 edition features the addition of over 1,300 new mass spectra and over 700 new, unique compounds in over 30 different classification groups such as, 415 fentanyls, 1,042 synthetic cannabinoids, and 344 opiates.



With an average quality index per spectrum of 949.4 and 17,114 kovats retention indices this spectral library provides comprehensive data on the most up-to-date list of novel psychoactive substances.



Instrument Specifications

Data were acquired on a GCMS TSQ 700, Autosampler CTC PAL A200 SE, split/splitless injector inlet, DB-1 30 m 0.32 mm x 0.25 μ m (J&W), Helium in constant linear velocity mode (35cm/s) carrier gas, with an oven temperature of 80°C to 280°C at 15°C/min. Ion source temperature 150°C, interface temperature 280°C, scan range 30-800 u, EI 70 eV.



Compound Coverage

Updated annually, the 2018 edition covers the range of known novel psychoactive substances through December 31, 2017. Compound coverage for individual compounds can be verified at www.compoundsearch.com:

- Amphetamines: 2,238
- Methylenedioxyphenethylamines: 1,234
- Phenethylamines: 2,992
- Tryptamines: 553
- Piperazines: 918
- Opiates: 344
- Fentanyles: 415
- Cathinones: 907
- Phencyclidines: 45
- Tropines: 100
- Indoles: 1,176
- Barbituates: 88
- Cannabinoids: 112
- Cannabimimetics: 930
- Steroids: 195
- Arylpropan-2-amines: 835
- Arylbutan-2-amines: 501
- Indane-2-amines: 102
- 1-aryl-2-nitro-ethenes: 53
- 1-aryl-2-nitroprop-1-enes: 80
- 1-aryl-2-nitrobut-1-ene: 45
- Benzaldehydes: 178
- Designer drug isomers: 1,036
- Derivatives: 7,530
- Metabolites (incl. derivatives): 5,916
- Chemical warfare agents: 70
- Designer drug precursors: 1,381
- Benzodiazepines: 312
- Pharmaceutical drugs (incl. metabolites): 5,071
- Pesticides: 334
- Explosives: 55
- Controlled compounds: 5,489



Compatibility

Compatible with most current and legacy mass spectrometry data systems, including:

- Agilent Chemstation, MassHunter
- NIST MS Search
- Shimadzu GCMS Solutions
- Thermo Xcalibur



Ordering Information

Mass Spectra of Designer Drugs 2018

DVD-ROM ISBN: 978-3-527-34527-4

Mass Spectra of Designer Drugs 2018 Upgrade

DVD-ROM ISBN: 978-3-527-34528-1

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