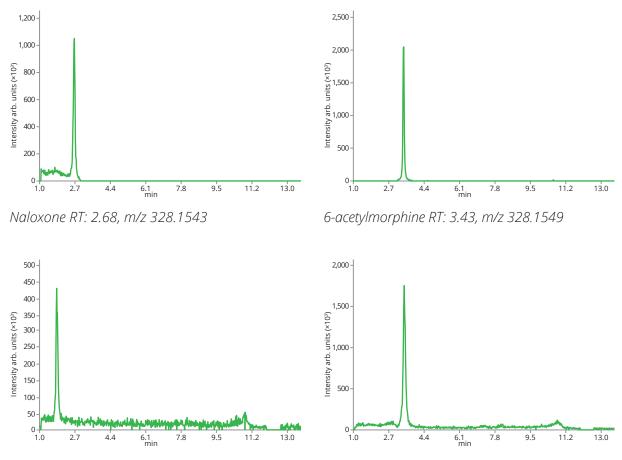


Analysis of drugs of abuse

Drug abuse has become a serious problem worldwide. Determination of drugs of abuse is important for undertanding of the needed treatment as well as for the law enforcement. The list of target compounds to be screened can number in the hundreds. This application shows a rapid analysis of the drugs of abuse belonged to different classes.

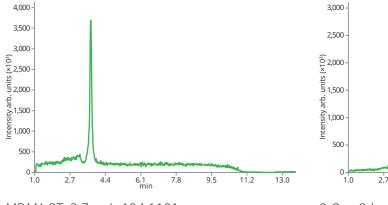


Cathinone RT: 5.66, m/z 150.0919

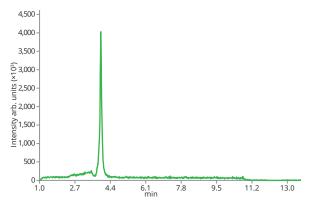
Metamphetamine RT: 4.59, m/z 150.1283

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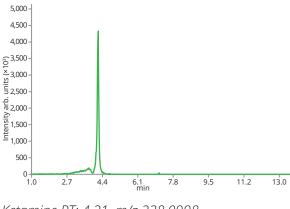
Analysis of drugs of abuse



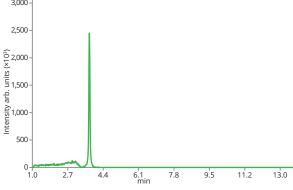
MDMA RT: 3.7, m/z 194.1181



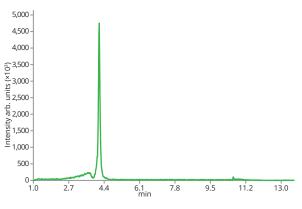
Mephedrone (4-methylmethcathinone) RT: 3.96, m/z 178.1232

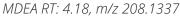


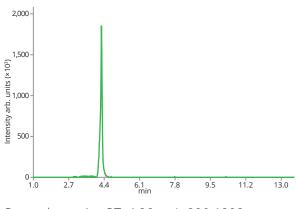








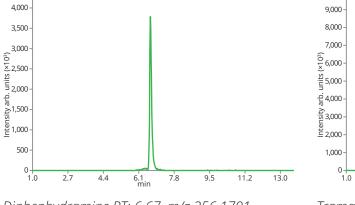




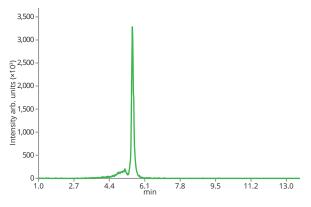
Benzoylecgonine RT: 4.28, m/z 290.1392

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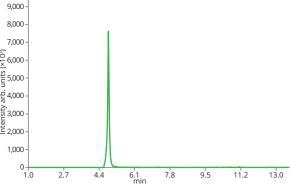
Analysis of drugs of abuse



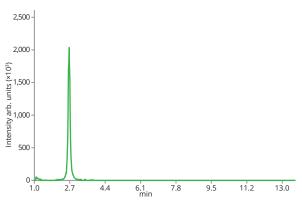
Diphenhydramine RT: 6.67, m/z 256.1701



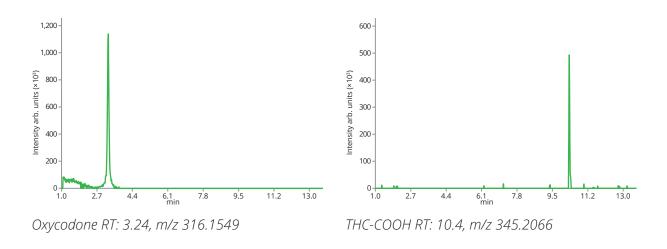
Cocaine RT: 5.52, m/z 304.1549





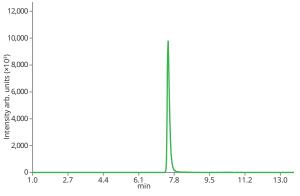




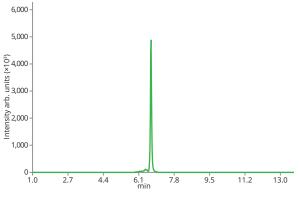


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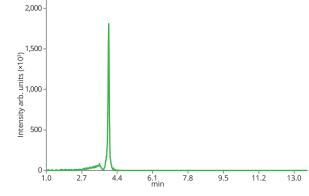
Analysis of drugs of abuse



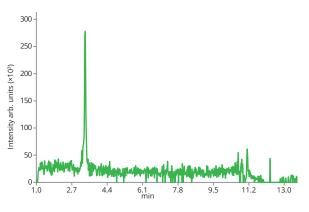
Methadone RT: 7.57, m/z 310.2171



Buprenorphine RT: 6.71, m/z 468.3114







MDA RT: 3.71, m/z 163.0753

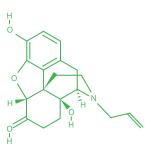
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Analysis of drugs of abuse

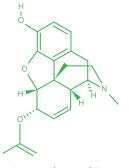
Column	ASTRA [®] C18-HE, 3.0 μm						
Dimensions	75 mm × 2.1 mm						
Part number	AST-5732-IH21						
Mobile phase	A: DDW + 0.1% Formic Acid, B: ACN + 0.1% Formic Acid						
Gradient elution	Time 0 1 4 8 10	A (%) 90 90 75 60 0	B (%) 10 10 25 40 100	14	.01	A (%) 0 90 90 90	B (%) 100 10 10 10
Flow rate	0.35 mL/min						
Temperature	23 °C						
Detection	Full scan (resolving power 120 000, m/z 200), positive mode						
Injection volume	5 μL						
	 Naloxone, CAS number 465-65-6 6-acetylmorphine, CAS number 2784-73-8 Cathinone, CAS number 71031-15-7 Metamphetamine, CAS number 537-46-2 MDMA (3,4-methylenedioxymethamphetamine), CAS number 42542-10-9 6. 2-Oxo-3-hydroxy-LSD (2-Oxo-3-hydroxy-lysergide), CAS number 111295-09-1 Mephedrone (4-methylmethcathinone), CAS number 1189805-46-6 MDEA (N-methyldiethanolamine), CAS number 105-59-9 Ketamine, CAS number 6740-88-1 Benzoylecgonine, CAS number 519-09-5 Diphenhydramine, CAS number 58-73-1 Tramadol, CAS number 123154-38-1 Cocaine, CAS number 76-57-3 Oxycodone, CAS number 76-42-6 THC-COOH (11-Nor-9-carboxy-THC), CAS number 64280-14-4 Methadone, CAS number 76-99-3 Norketamine, CAS number 52485-79-7 MDA (tenamfetamine), CAS number 4764-17-4 						

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Analysis of drugs of abuse

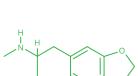


Naloxone





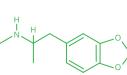


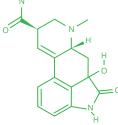


MDMA

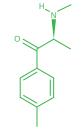
6-acetylmorphine

Cathinone





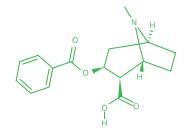
2-Oxo-3-hydroxy-LSD



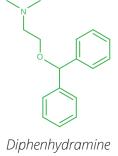
Mephedrone





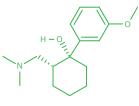


Benzoylecgonine

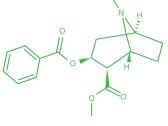


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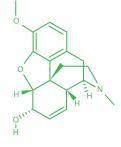
Analysis of drugs of abuse



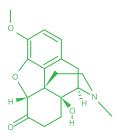
Tramadol



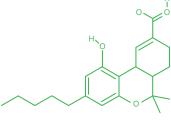
Cocaine



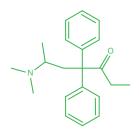
Codeine



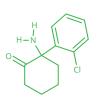
Oxycodone



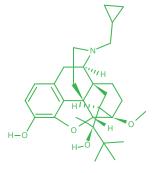
THC-COOH



Methadone



Norketamine



Buprenorphine

MDA

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