Cathinone Psychoactive Substances by LC-UV and LC-Amperometry

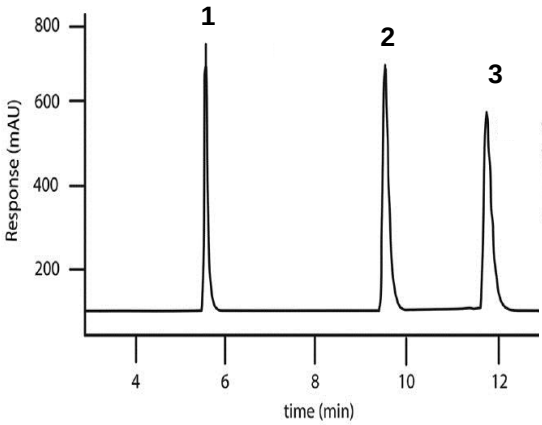
ACE® Ultra-inert UHPLC & HPLC Columns

Application #AN3500

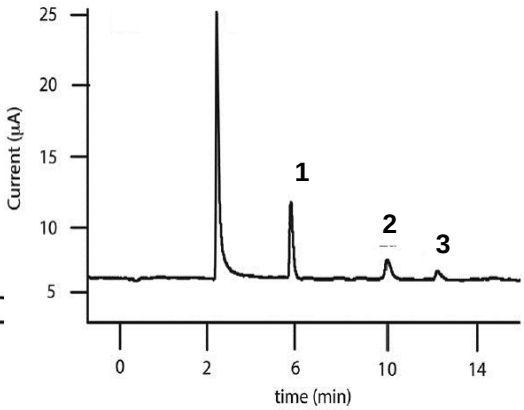
Conditions

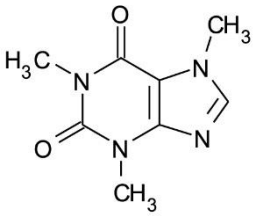
Column:	ACE 3 C18
Dimensions:	150 x 4.6 mm
Part Number:	ACE-111-1546
Mobile Phase:	10 mM ammonium acetate-100 mM KCl pH 4.3/MeOH (70:30 v/v)
Flow Rate:	0.8 mL/min
Injection:	10 µL
Temperature:	22 °C
Detection:	UV, 264 nm Amperometric Potential +1.4 V

UV Detection

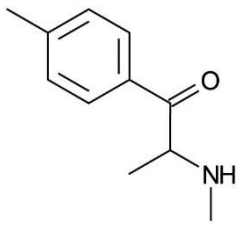


Amperometric Detection

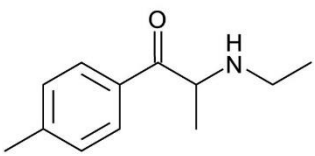




1. Caffeine



2. 4-Methylmethcathinone (4-MMC, mephedrone)



3. 4-Methylethcathinone (4-MEC)

Zuway K, Smith J, Foster C, Kapur N, Banks C, Sutcliffe O (2015) Detection and quantification of new psychoactive substances (NPSs) within the evolved 'legal high' product, NRG-2, using high performance liquid chromatography-amperometric detection (HPLC-AD). Analyst 140, 6283. doi:10.1039/c5an01106j

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