Electronic Supplementary Material (ESI) for Analytical Methods.

A simple, quick and non-destructive approach for sampling drugs of abuse in tablets and blotter for qualitative analysis by paper spray mass spectrometry

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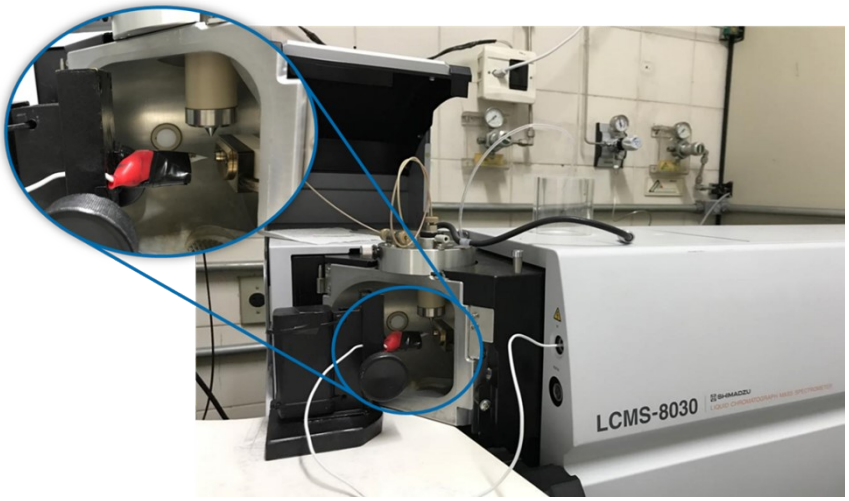

Fig. 1S Picture of the PS interface adapted on a Shimadzu mass spectrometer model LCMS 8030.

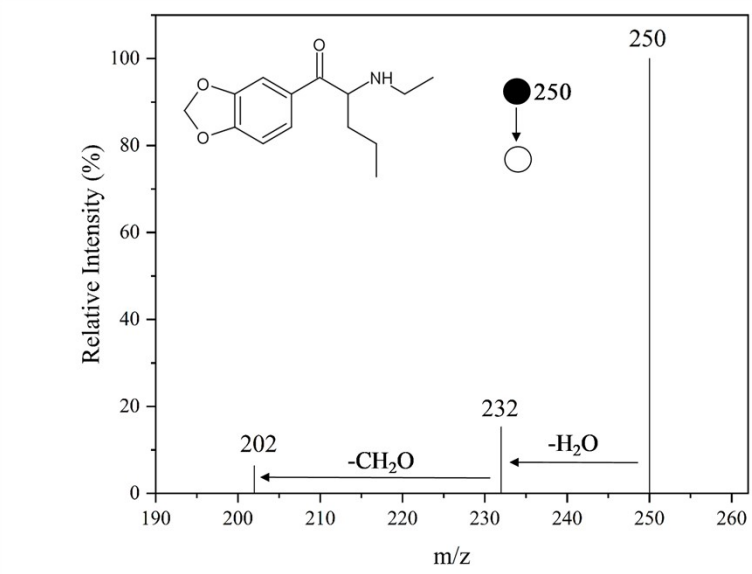

Fig. 2S PS(+)-MS/MS of *N*-ethylpentylone (NEP) recorded from a sample also containing U-47700 (a potent synthetic opioid also known as pink heroin). Conditions: support, filter paper; spray solvent, MeOH; spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision 5 V.

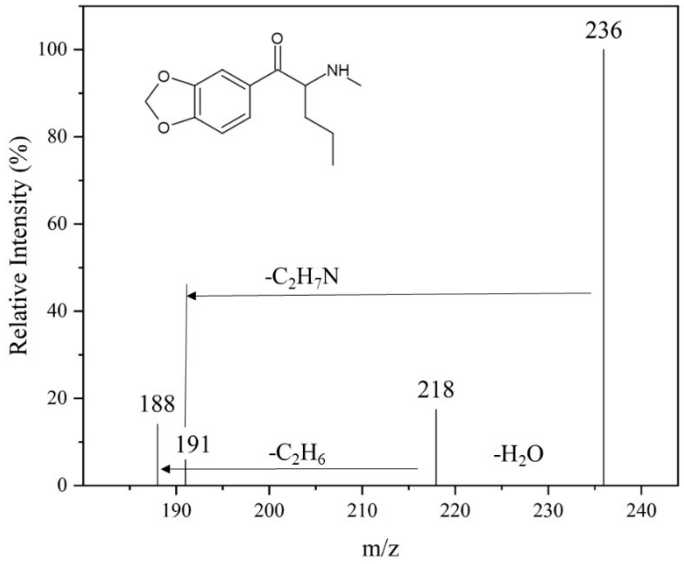

Fig. 3S PS(+)-MS/MS of pentylone recorded from a sample also containing NEP. Conditions: support, filter paper; spray solvent, MeOH; spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision 5 V.

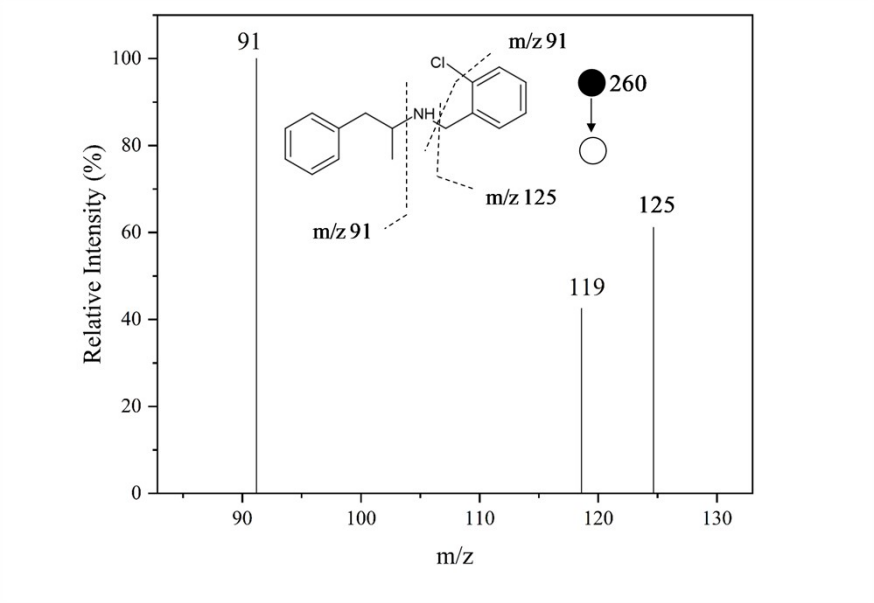

Fig. 4S PS(+)-MS/MS of clobenzorex. Conditions: support, blotter paper; spray solvent, MeOH:ACN (1:1 v/v); spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision, 5 V.

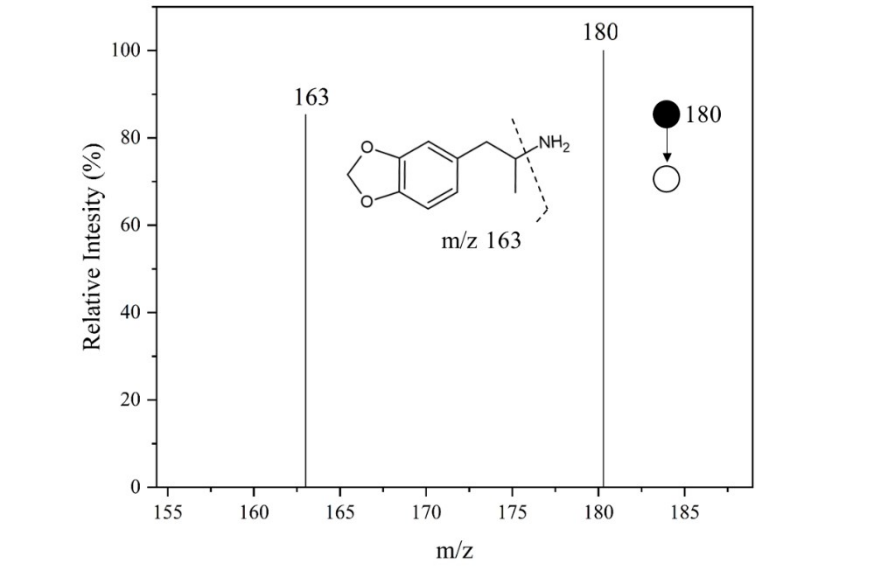

Fig. 5S PS(+)-MS/MS of MDA. Conditions: support, blotter paper; spray solvent, MeOH; spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision, 5 V.

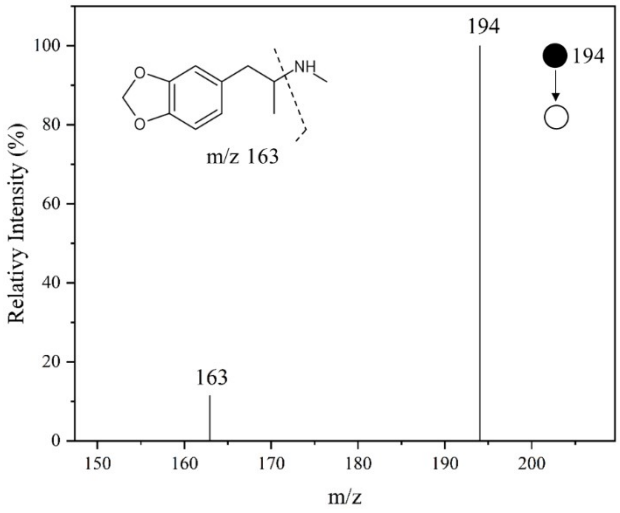

Fig. 6S PS(+)-MS/MS of MDMA. Conditions: support, blotter paper; spray solvent, MeOH; spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision, 5 V.

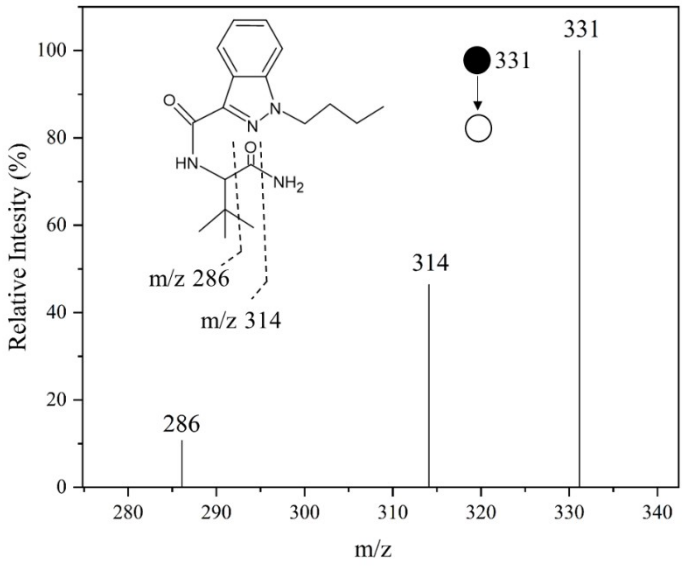

Fig. 7S PS(+)-MS/MS of ADB-BUTINACA. Conditions: support, filter paper; spray solvent, MeOH; spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision, 5 V.

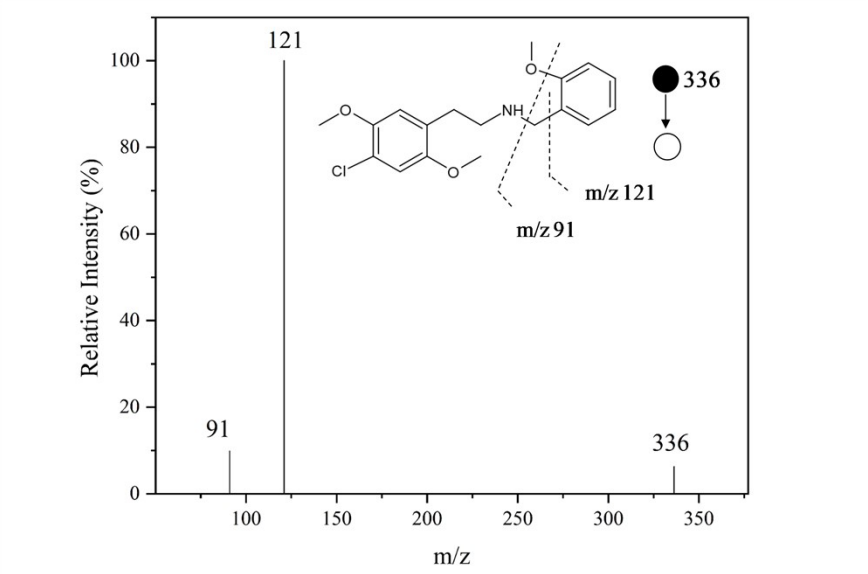

Fig. 8S PS(+)-MS/MS of 25C-NBOMe. Conditions: support, filter paper; spray solvent, MeOH; spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision, 5 V.

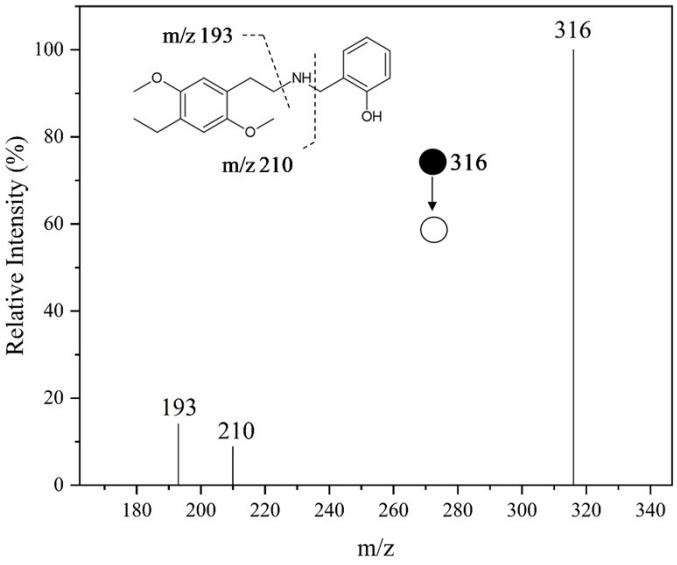

Fig. 9S PS(+)-MS/MS of 25E-NBOH. Conditions: support, blotter paper; spray solvent, MeOH:ACN (1:1 v/v); spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision, 5 V.

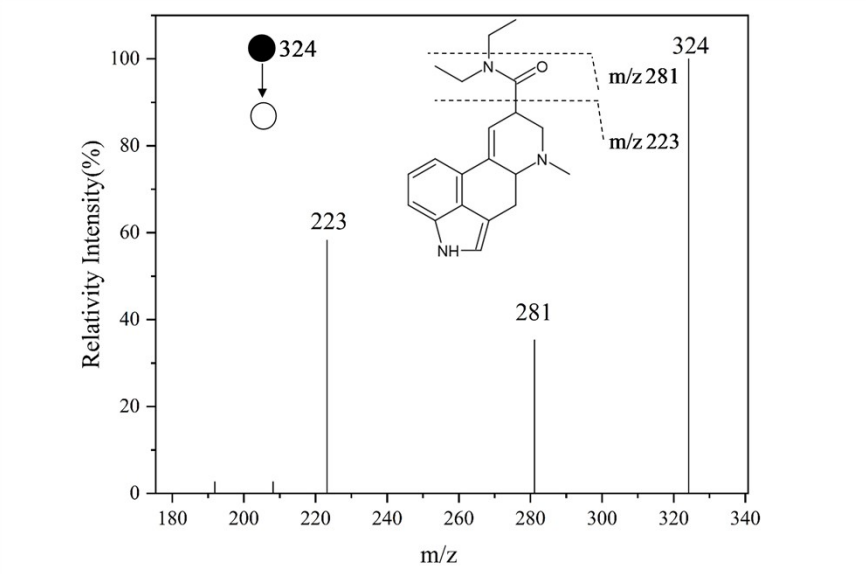

Fig. 10S PS(+)-MS/MS of 25C-NBOMe. Conditions: support, filter paper; spray solvent, MeOH; spray solvent volume, 10 µL; spray voltage, 4.5 kV; distance between paper tip and MS inlet, 10 mm; energy collision, 20 V.

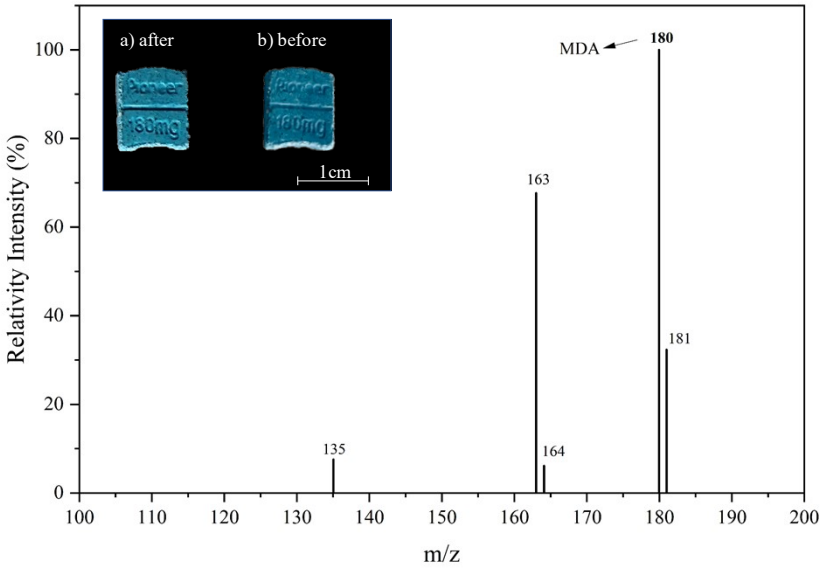

Fig. 11S PS(+)-MS spectrum of MDA after the 10 consecutive extractions with blotter paper and methanol as spray solvent. Photos of sample after 1 extraction and 10 consecutive extractions.