

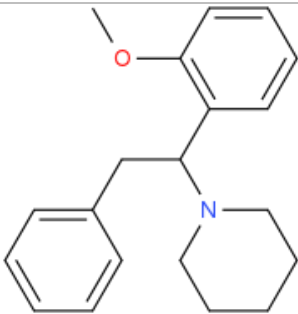
ANALYTICAL REPORT

Methoxphenidine (C₂₀H₂₅NO)

1-[1-(2-methoxyphenyl)-2-phenylethyl]piperidine

Remark – other NPS detected: **none**

Sample ID:	1239-15
Sample description:	liquid - brown (oil)
Sample type:	RM-reference material
Comments ¹ :	Chiron AS Lot#14003 RESPONSE -purchasing
Date of entry:	8/31/2015

Substance identified-structure ² (base form)	
Systematic name:	1-[1-(2-methoxyphenyl)-2-phenylethyl]piperidine
Other names:	
Formula (per base form)	C ₂₀ H ₂₅ NO
M _w (g/mol)	295,42
Salt form:	base
StdInChIKey	QXXCUXIRBHSITD-UHFFFAOYSA-N
Compound Class	Piperazine derivates
Other NPS detected	none
Add.info (purity..)	98%

¹ This report has been produced with the financial support of the Prevention of and fight against crime Programme of the European Union (grant agreement number JUST/2013/ISEC/DRUGS/AG/6413). The contents of this report are the sole responsibility of the National Forensic Laboratory and can in no way be taken to reflect the views of the European Commission.

² Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d



Supporting information

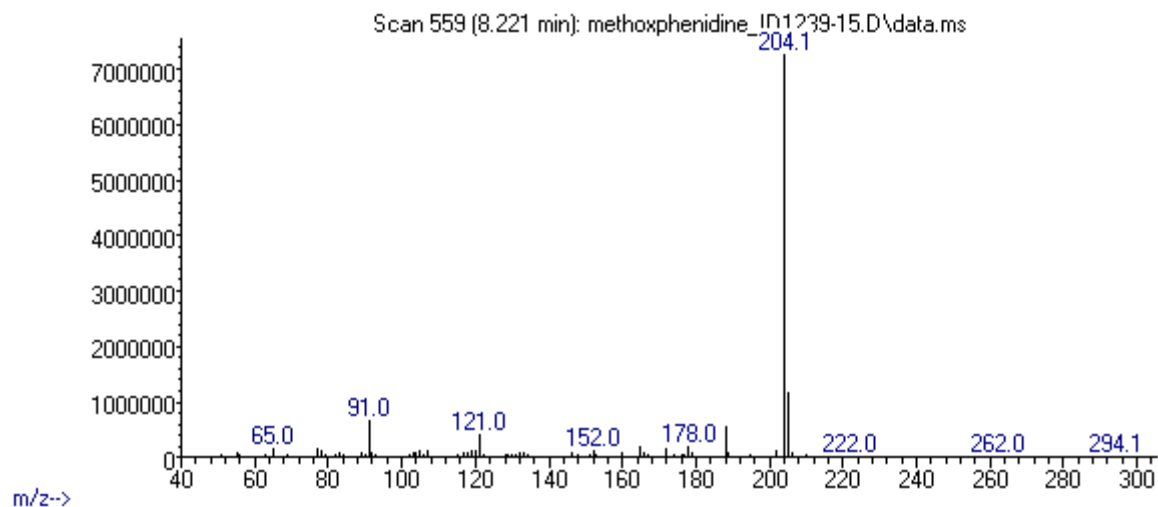
Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 8,22 BP(1): 204; BP(2): 205,BP(3) :91,
FTIR-ATR	+	direct measurement
FTIR (condensed phase) always for the base form of cpd.	+	

GC-MS (Agilent): GC-method is RT locked to tetracosane (RT=9.53 min). Injection volume 1 ml and split mode (1:50) for GC-MS instruments and 1:5 for GC-MS-FTIR(condensed phase). Injector temperature: 280 °C. Column: HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 0.25 mm. Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 °C for 1 min, followed by heating up to 293 °C at a rate of 18 °C/min, hold for 6.1 min, than heating at 50 °C/min up to 325 °C and finally 2.8 min isothermal. MSD source EI = 70 eV. GC-MS transfer line T= 235 °C, source and quadrupole temperatures 280 °C and 180 °C. m/z scan range: from 50 (40) to 550 amu.

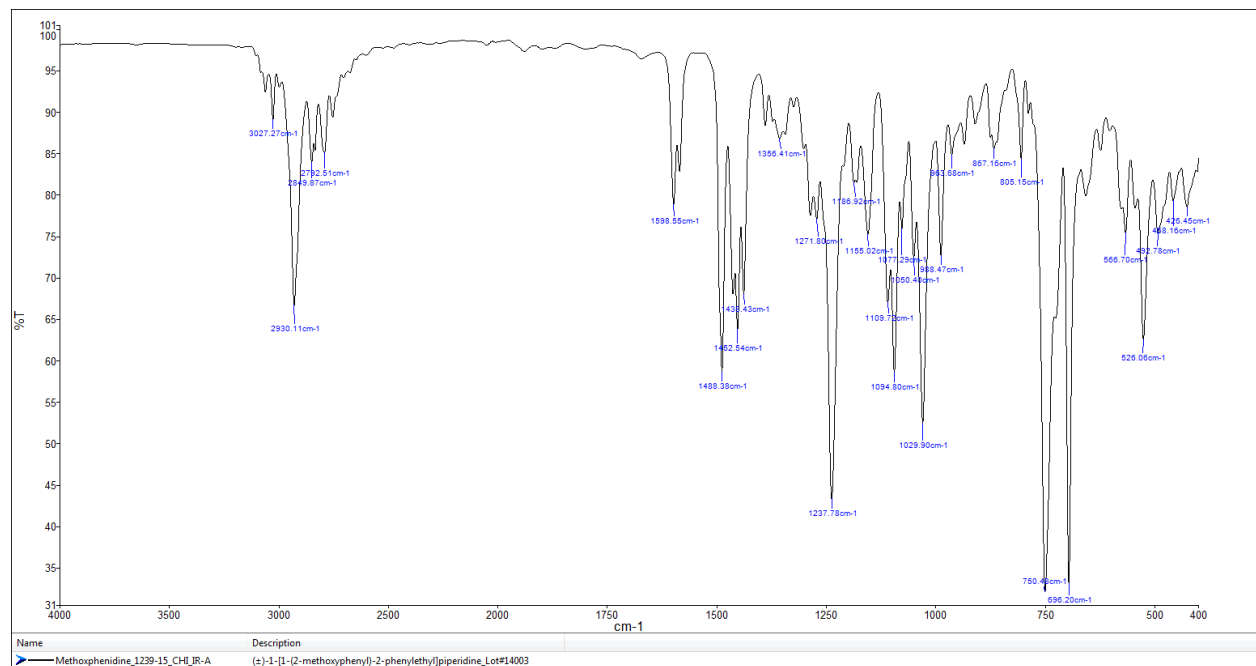
FTIR-ATR (Perkin Elmer): scan range 4000-400 cm⁻¹; resolution 4cm⁻¹

FTIR (Spectra analyses-Danny): scan range 4000 to 700, resolution 4cm⁻¹

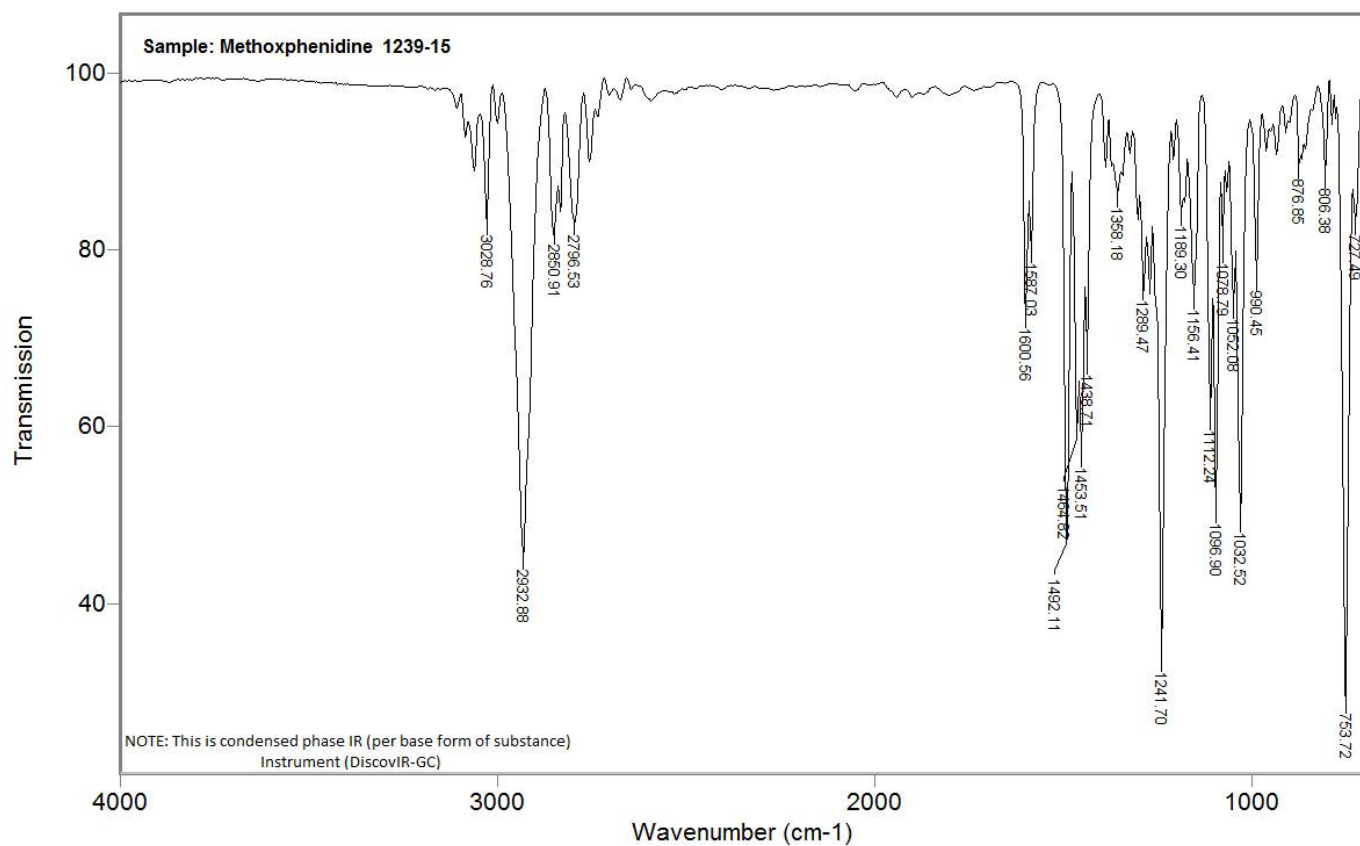
Abundance



MS-EI spectrum



FTIR-ATR direct measurement



FTIR condensed phase