



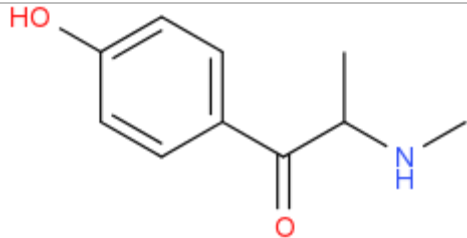
ANALYTICAL REPORT

4-Hydroxymethcathinone (C₁₀H₁₃NO₂)

1-(4-hydroxy-phenyl)-2-methylamino-propan-1-one

Remark – other active cpd. detected: **none**

Sample ID:	1216-15
Sample description:	powder - white
Sample type:	RM-reference material
Comments ¹ :	Chiron AS Lot#15351RESPONSE -purchasing
Date of entry:	8/31/2015

Substance identified-structure ² (base form)	
Systematic name:	1-(4-hydroxy-phenyl)-2-methylamino-propan-1-one
Other names:	
Formula (per base form)	C ₁₀ H ₁₃ NO ₂
M _w (g/mol)	179,22
Salt form:	base
StdInChIKey	WYLPQOVNOVHCLO-UHFFFAOYSA-N
Compound Class	Cathinones
Other active cpd. detected	none
Add.info (purity..)	99,10%

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): 4,97 BP(1): 58; BP(2): 121,BP(3) :39,
FTIR-ATR	+	direct measurement
GC-IR (condensed phase)	+	spectrum is always for the base form of compound

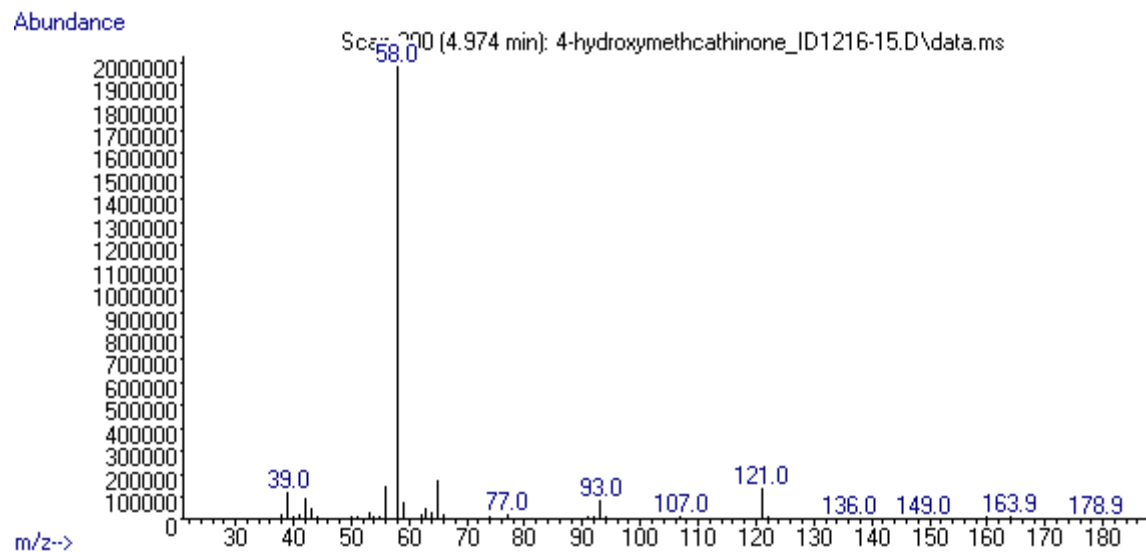
1. GC-MS (Agilent): GC-method is RT locked to tetracosane (RT=9.53 min). Injection volume 1 ml and split mode (1:50) for GC-MS instruments and 1:5 for GC-MS-FTIR (condensed phase). Injector temperature: 280 °C. Column: HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickness 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, then 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 quadropole 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

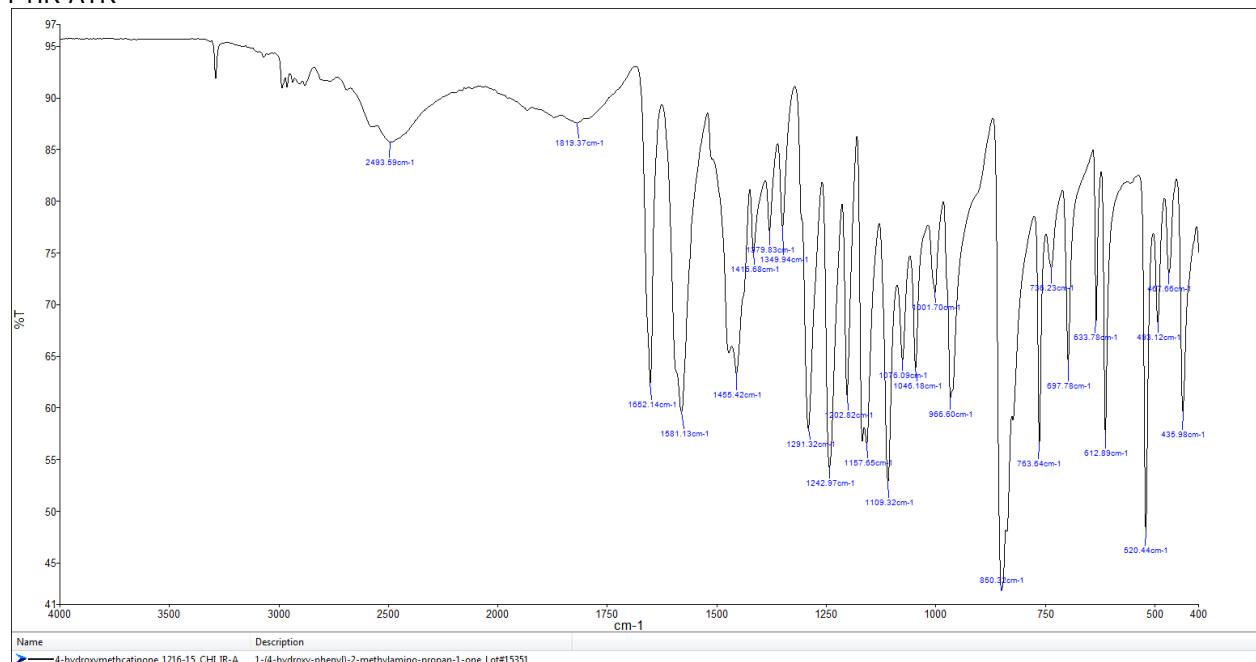
GC-FTIR (Spectra analyses-Danny): scan range 4000 to 700, resolution 4cm⁻¹

FIGURES OF SPECTRA

MS (EI)



FTIR-ATR



IR-condensed phase

