



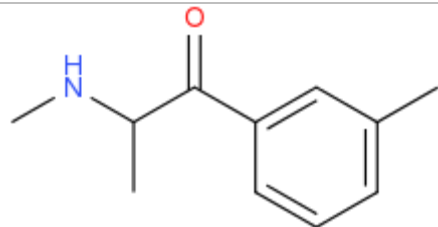
ANALYTICAL REPORT

3-MMC (C₁₁H₁₅NO)

2-(Methylamino)-1-(3-methylphenyl)-1-propanone

Remark – other NPS detected: **none**

Sample ID:	1048-12A
Sample description:	powder - white
Sample type:	RM-reference material
Comments:	Cayman Lot#0435099
Date of entry:	7/16/2012

Substance identified-structure ⁱ (base form)	
Systematic name	2-(Methylamino)-1-(3-methylphenyl)-1-propanone
Other names	3-MMC
Formula (per base form)	C ₁₁ H ₁₅ NO
M _w (g/mol)	177,24
Salt form	HCl
Smiles	<chem>CNC(C(=O)C1=CC(=CC=C1)C)C</chem>
Compound Class	Cathinones
Other NPS detected	none
Add.info (purity..)	100%

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Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 3,41 BP(1): 58; BP(2): 91,BP(3) :119,
FTIR-ATR	+	
FTIR (condensed phase) always as base form		pending

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 µm. 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

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

Abundance

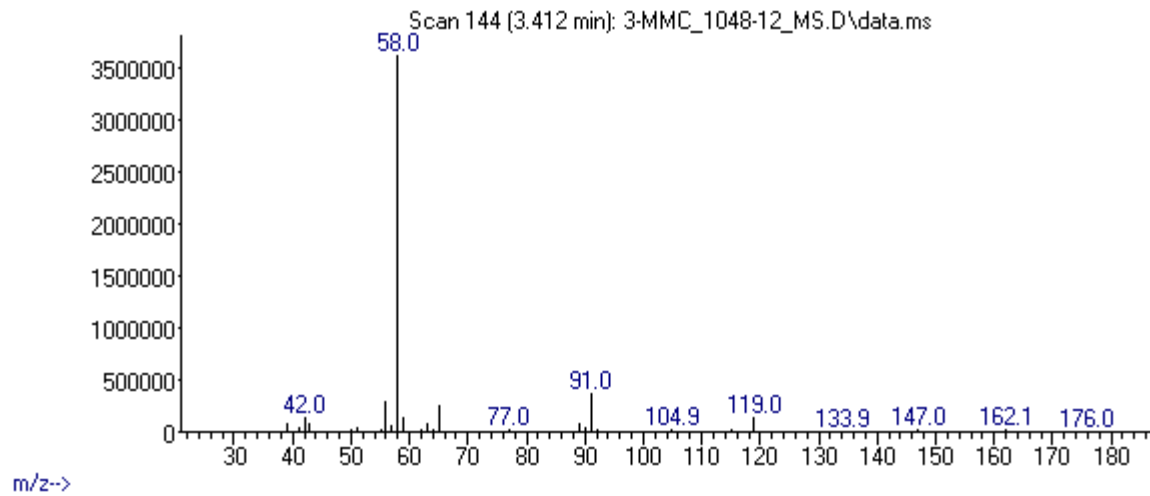


Figure 1: GC-MS spectrum

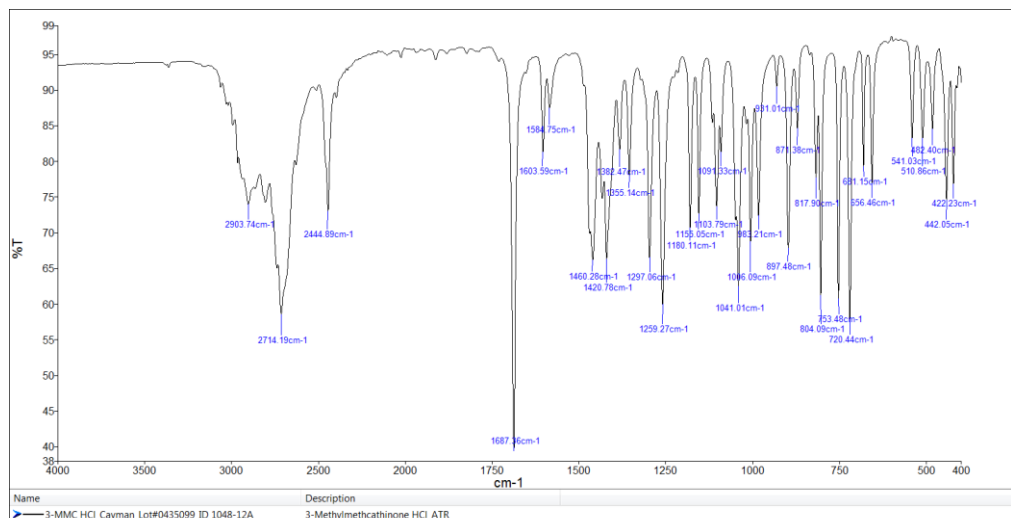


Figure 2: FTIR ATR

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