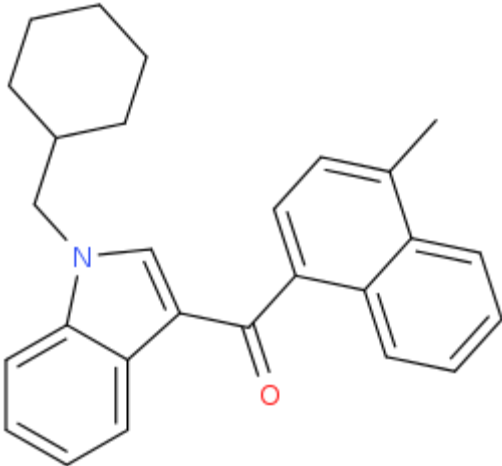


ANALYTICAL REPORT

CHM-122 (C₂₇H₂₇NO)**1-(cyclohexylmethyl)-3-(4-methylnaphthalene-1-carbonyl)-1H-indole**Remark – other active cpd. detected: **none**

Sample ID:	1848-17
Sample description:	powder - white
Sample type:	RM-reference material
Comments:	CAY Lot#0504582-2,
Date of entry (DD/MM/YYYY):	18/08/2017

Substance identified- structure ¹ (base form)	
Systematic name:	1-(cyclohexylmethyl)-3-(4-methylnaphthalene-1-carbonyl)-1H-indole
Other names:	[1-(cyclohexylmethyl)-1H-indol-3-yl](4-methyl-1-naphthalenyl)-methanone
Formula (per base form)	C ₂₇ H ₂₇ NO
M _w (g/mol)	381,52
Salt form:	base
StdInChIKey (per base form)	LRHHYHXSAXSNA-UHFFFAOYSA-N
Other active cpd. detected	none
Add.info (purity..)	98,7%

¹ Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d



Report updates

date	comments (explanation)

Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 18,73 BP(1): 298; BP(2): 169,BP(3) :381,
FTIR-ATR	+	direct measurement
GC-IR (condensed phase)	+	always as base form

1. GC-MS (Agilent): GC-method is RT locked to tetracosane (9.258 min). Injection volume 1 ml and split mode (1:50). Injector temperature: 280 °C. Chromatographic separation: on 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 190 °C at rate 8 °C/min, then heating up to 293 °C at a rate of 18 °C/min, hold for 7.1 min, then heating at 50 °C/min up to 325 °C and finally 6.1 min isothermal. MSD source EI = 70 eV. GC-MS transfer line T= 235 °C, source and quadropole temperatures 280 °C and 180 °C, respectively. Scan range m/z scan range: from 50 (30 until 6 min.) to 550 (300 until 6 min) amu.

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

3. GC- (MS)-IR condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny)

GC-method: Injection volume 1 ml and split mode (1:5). Injector temperature 280 °C. Chromatographic separation as above **(1)**. Split MS : IR = 1 : 9.

MSD source EI = 70 eV. GC-MS transfer line T= 235 °C, source and quadropole temperatures 280 °C and 180 °C, respectively. Scan range m/z scan range: from 50 (30 until 6 min.) to 550 (300) amu.

IR (condensed (solid) phase): IR scan range 4000 to 650, resolution 4 cm⁻¹.

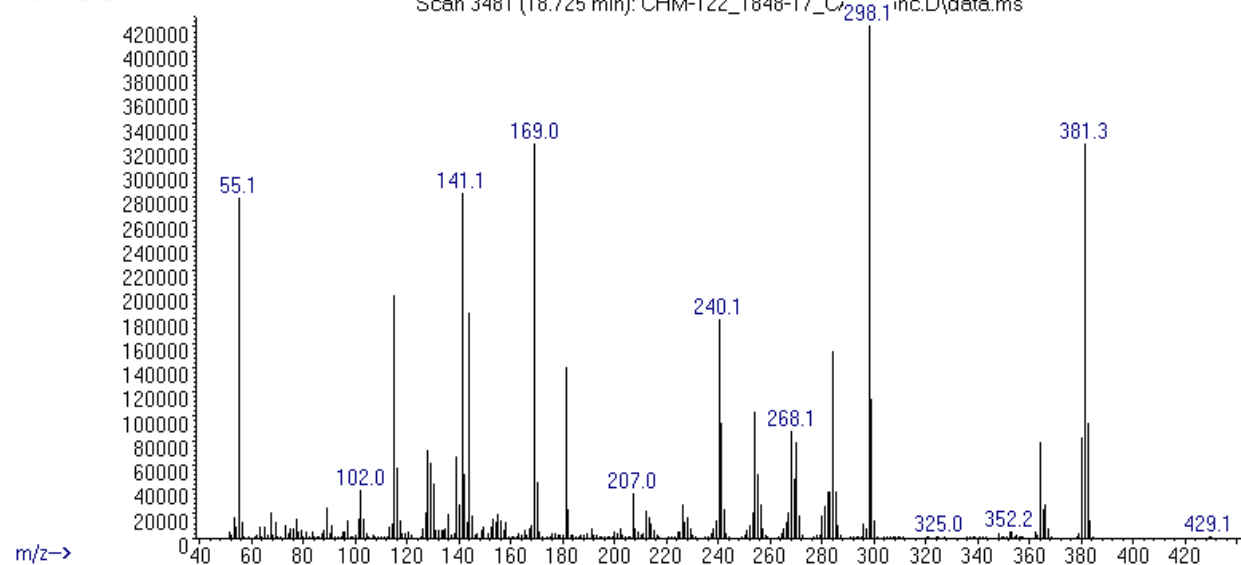
4. HPLC-TOF for exact monoisotopic mass and empirical formula control - results are not shown in the report.

ANALYTICAL RESULTS

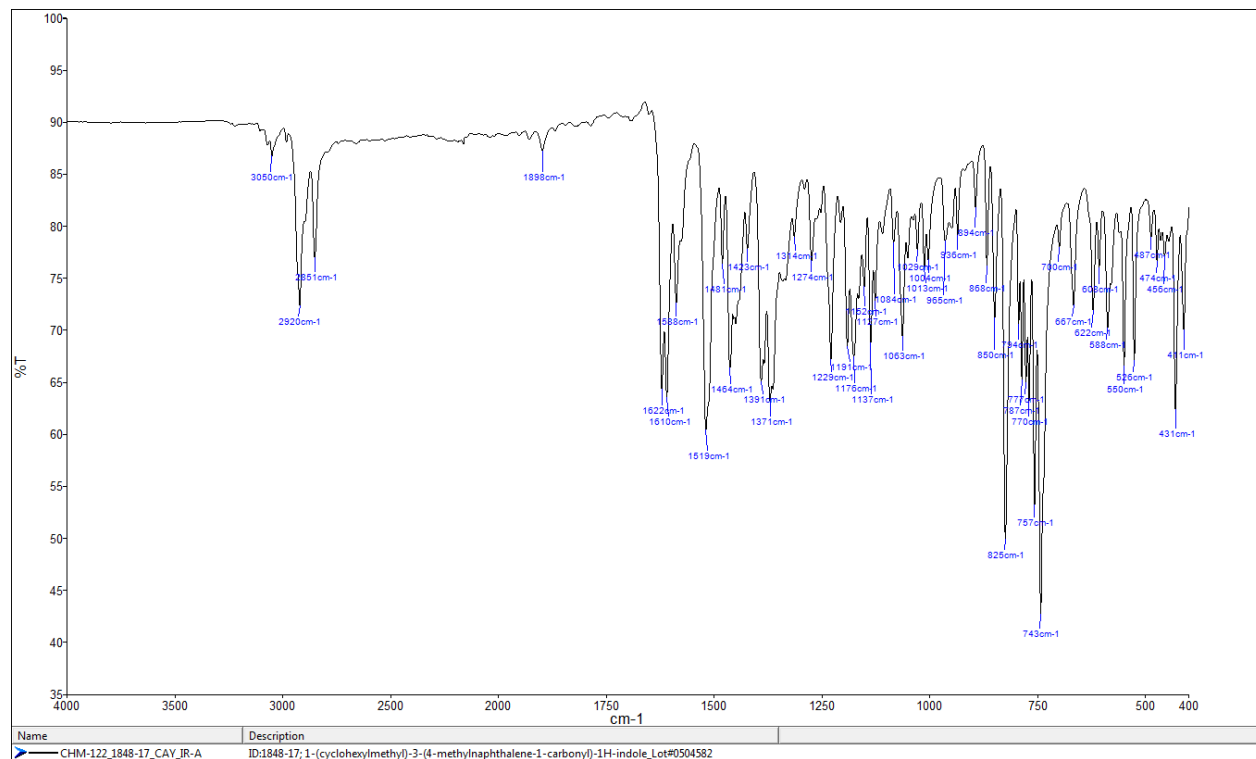
MS (EI)

Abundance

Scan 3481 (18.725 min): CHM-122_1848-17_C\11\inc.D\data.ms



FTIR-ATR - sample as received



IR (condensed phase – after chromatographic separation)

