REPUBLIKA SLOVENIJA
MINISTRSTVO ZA NOTRANJE ZADEVE
POLICIJA

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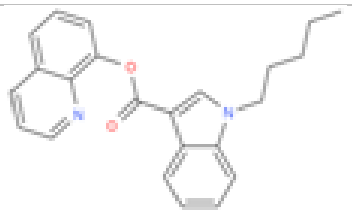
ANALYTICAL REPORT

THJ 2201, AM 2202 indazole analog (C23H21FN2O)

(1-(5-fluoropentyl)-1H-indazol-3-yl)(naphthalen-1-yl)methanone,

Sample ID:	233-5422/2014
Sample description:	powder
Report date:	1/5/2015
Sample type:	S-seized

Substance identified-structure[i]	
Systematic name	(1-(5-fluoropentyl)-1H-indazol-3-yl)(naphthalen-1-yl)methanone
Other names	THJ 2201, AM 2202 indazole analog,
Formula (per base form)	C23H21FN2O
M_w (g/mol)	360,42
Salt form	base
Other compounds detected	
Smiles	FCCCCCN1N=C(C2=CC=CC=C12)C(=O)C1=CC=CC2=CC=CC=C12
Compound Class	Cannabinoids

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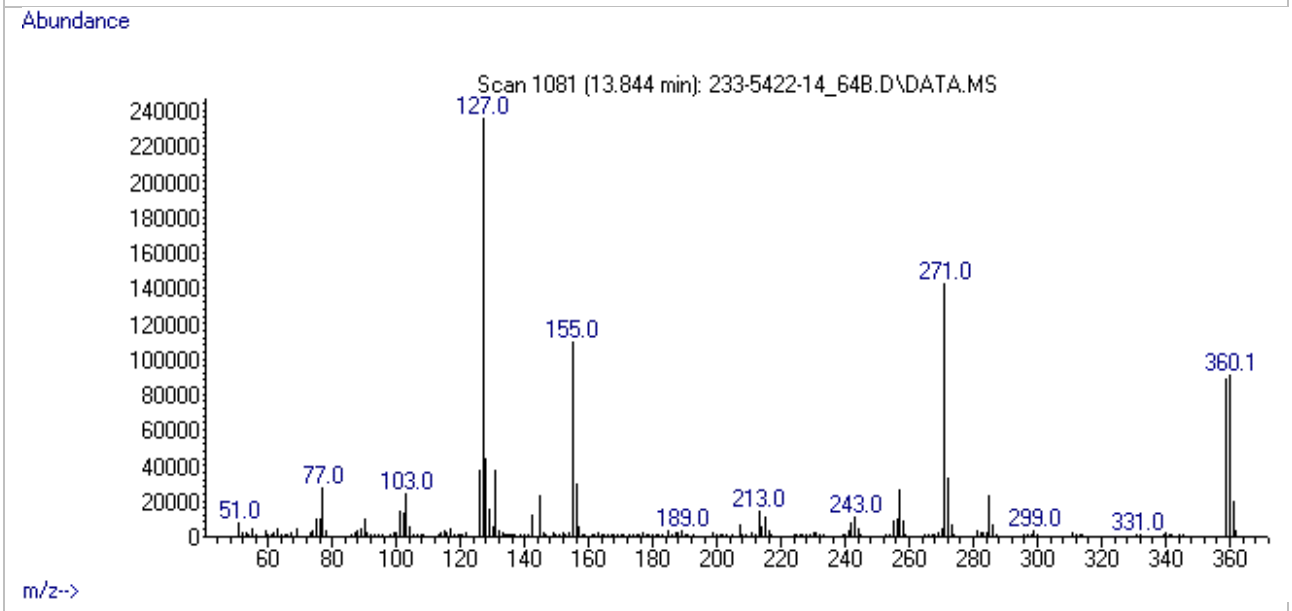
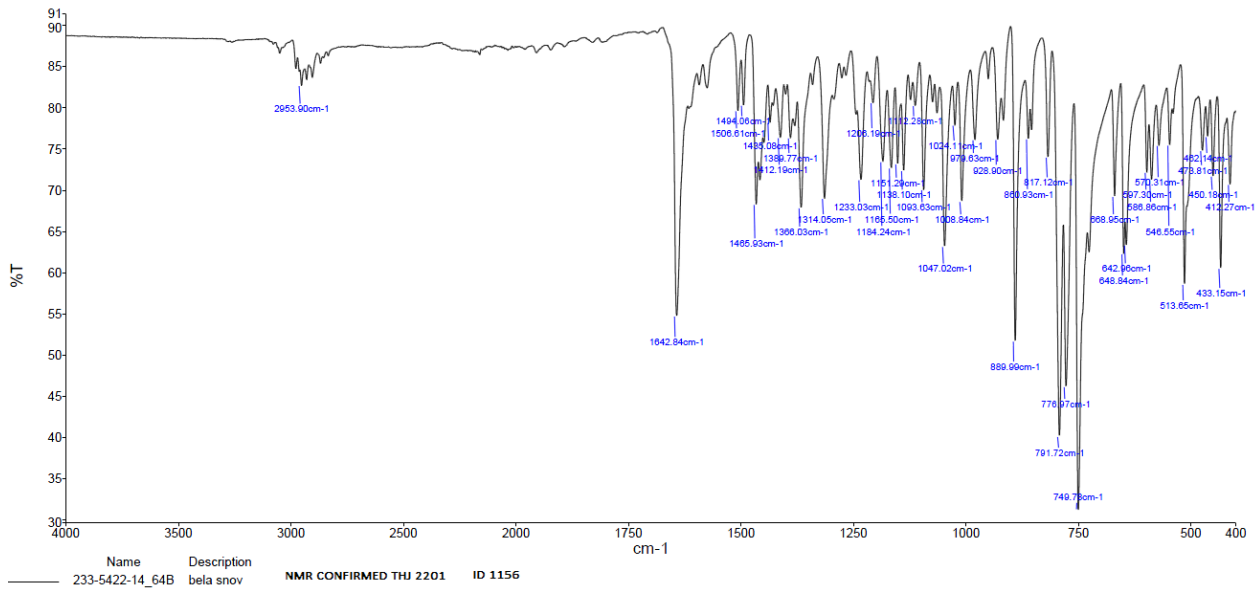
Supporting information

Analytical technique:	applied	remarks
GC-MS	+	
FTIR-ATR	+	
FTIR (condensed phase)		
HPLC-TOF	+	
NMR-confirmed	+	
validation		
other		

MS spectrum (EI)



FTIR - ATR



[i] Created by OPSIN free tool: http://opsin.ch.cam.ac.uk/ **DOI:** 10.1021/ci100384d

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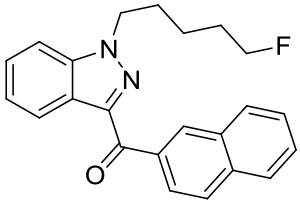
Dr. Janez Košmrlj
Professor of Organic Chemistry

January 17, 2015

Dr. Sonja Klemenc
Head of Chemistry Department
Vodovodna 95
1000 Ljubljana
Slovenija

Dear Dr. Sonja Klemenc,

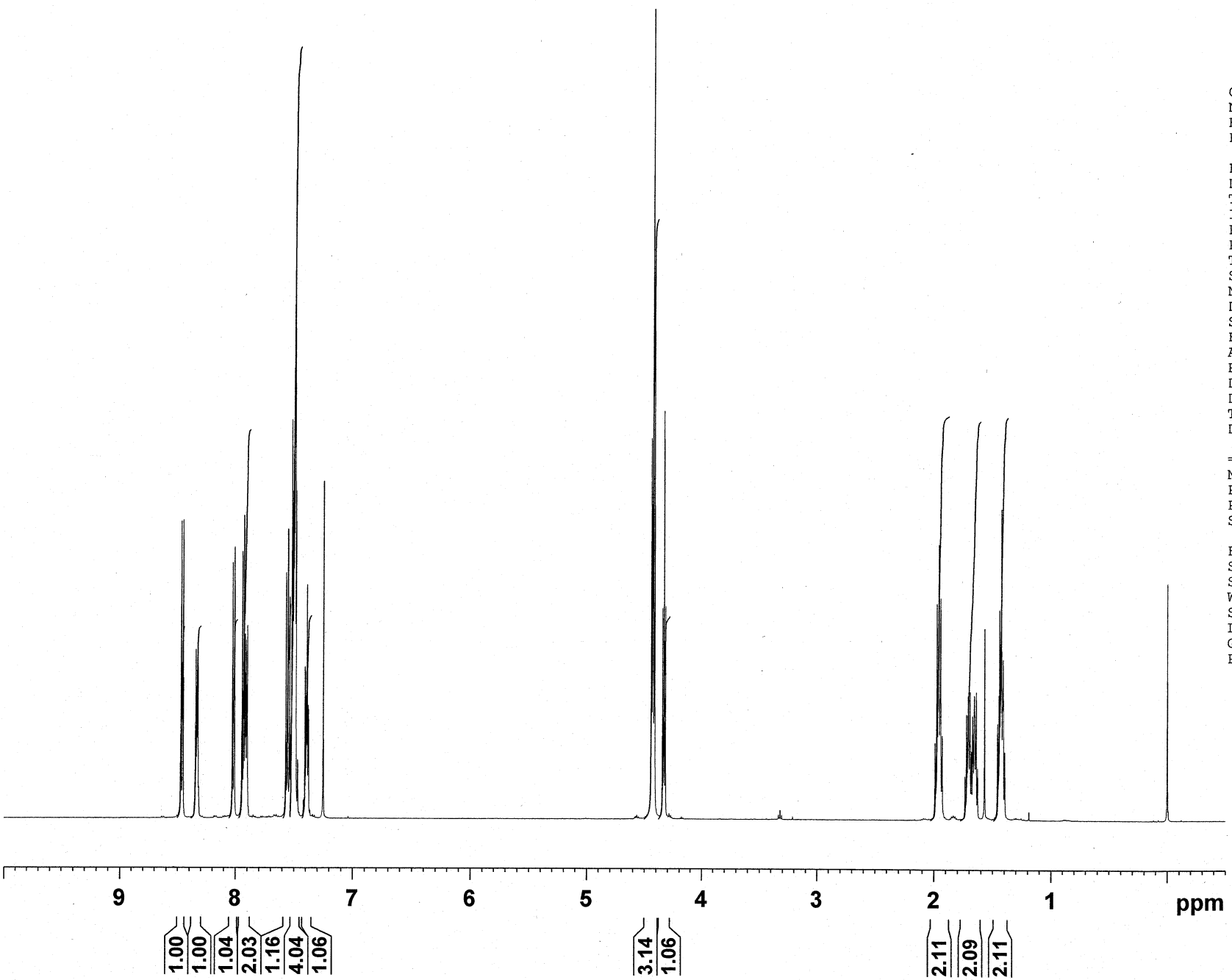
Please find enclosed the results of the structure elucidation for the sample:

Sample ID:	**233-5422-14-64b**
Received date:	November, 2014
Our notebook code:	P-233-5422-14-64b
NMR sample preparation:	15 mg dissolved in 0.7 mL $CDCl_3$
NMR experiments:	^{1}H NMR, ^{13}C NMR
Proposed structure with atom numbering scheme, formula, exact mass, molecular weight:	 Chemical Formula: $C_{23}H_{21}FN_2O$ Exact Mass: 360.1638 Molecular Weight: 360.4240
Chemical name:	(1-(5-Fluoropentyl)-1*H*-indazol-3-yl)(naphthalen-2-yl)methanone
Comments:	- The analysis of ^{1}H NMR and ^{13}C NMR spectra confirm the structure proposed by MS.
Supporting information:	Copies of ^{1}H and ^{13}C NMR spectra (pp 2-3)

Sincerely,

Janez Košmrlj

P-233-5422-14-64b



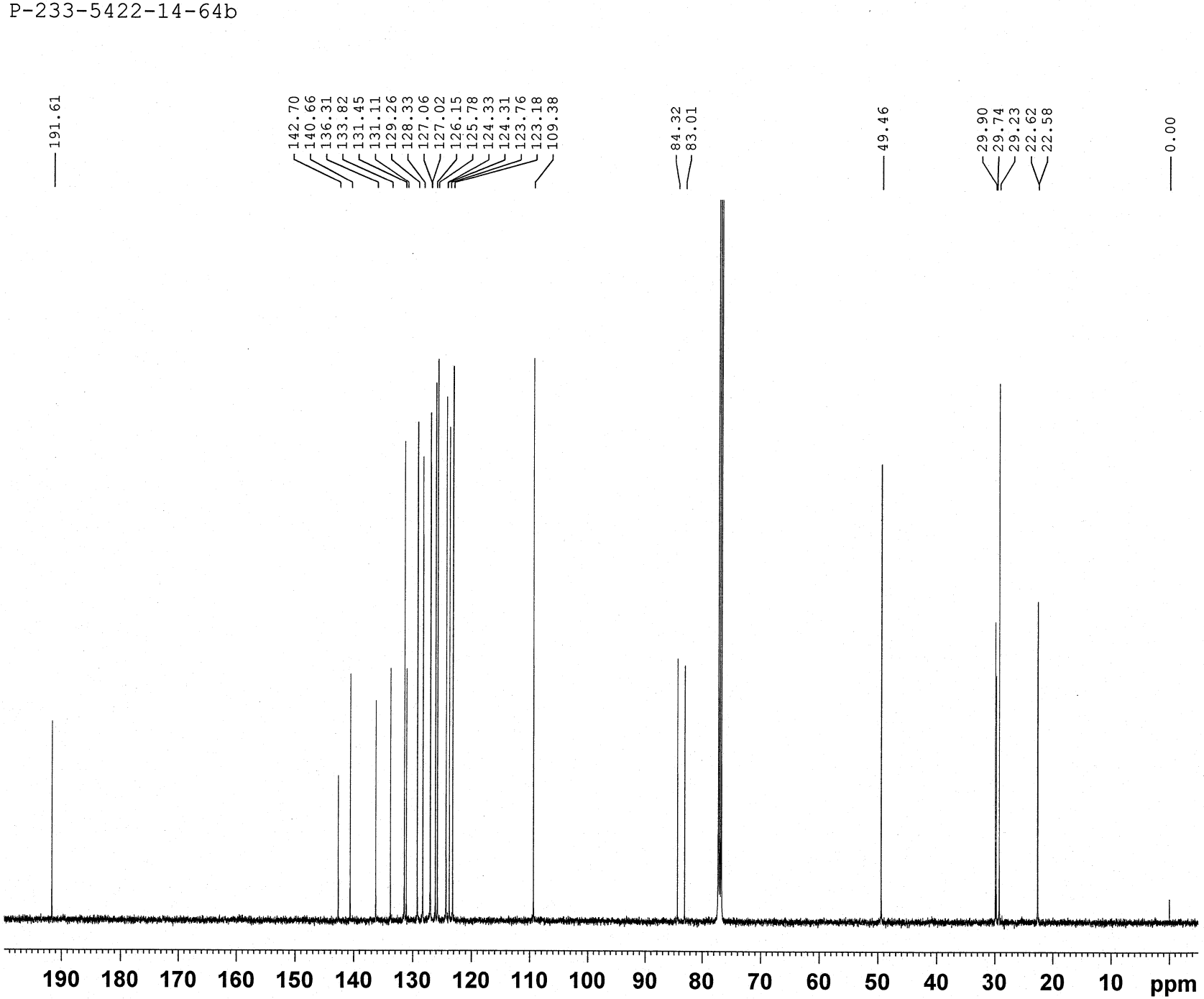
Current Data Parameters
NAME P-233-5422-14-64b
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 20141231
Time 2.49
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719923 sec
RG 90.5
DW 48.400 usec
DE 6.50 usec
TE 296.1 K
D1 1.00000000 sec

======== CHANNEL f1 ========
NUC1 1H
P1 8.90 usec
PLW1 26.00000000 W
SFO1 500.1330885 MHz

F2 - Processing parameters
SI 65536
SF 500.1300185 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

P-233-5422-14-64b



Current Data Parameters

NAME	P-233-5422-14-64b
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date_	20141231
Time	5.18
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl3
NS	4096
DS	4
SWH	29761.904 Hz
FIDRES	0.454131 Hz
AQ	1.1010548 sec
RG	2050
DW	16.800 usec
DE	6.50 usec
TE	296.0 K
D1	1.00000000 sec
D11	0.03000000 sec

======== CHANNEL f1 ========

NUC1	13C
P1	9.00 usec
PLW1	122.00000000 W
SFO1	125.7703637 MHz

======== CHANNEL f2 ========

CPDPRG2	waltz16
NUC2	1H
PCPD2	80.00 usec
PLW2	26.00000000 W
PLW12	0.32179001 W
PLW13	0.20595001 W
SFO2	500.1320005 MHz

F2 - Processing parameters

SI	32768
SF	125.7577920 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40