

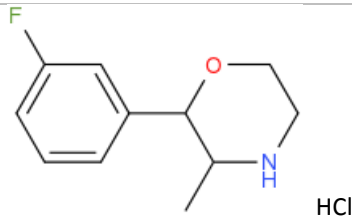
## ANALYTICAL REPORT

3F-phenmetrazine, (C<sub>11</sub>H<sub>14</sub>FNO)

2-(3-fluorophenyl)-3-methylmorpholine

Remark – other NPS detected: **none**

Sample ID:	1172-15
Sample description:	powder - white
Sample type:	P- purchased
Date of entry:	4/17/2015

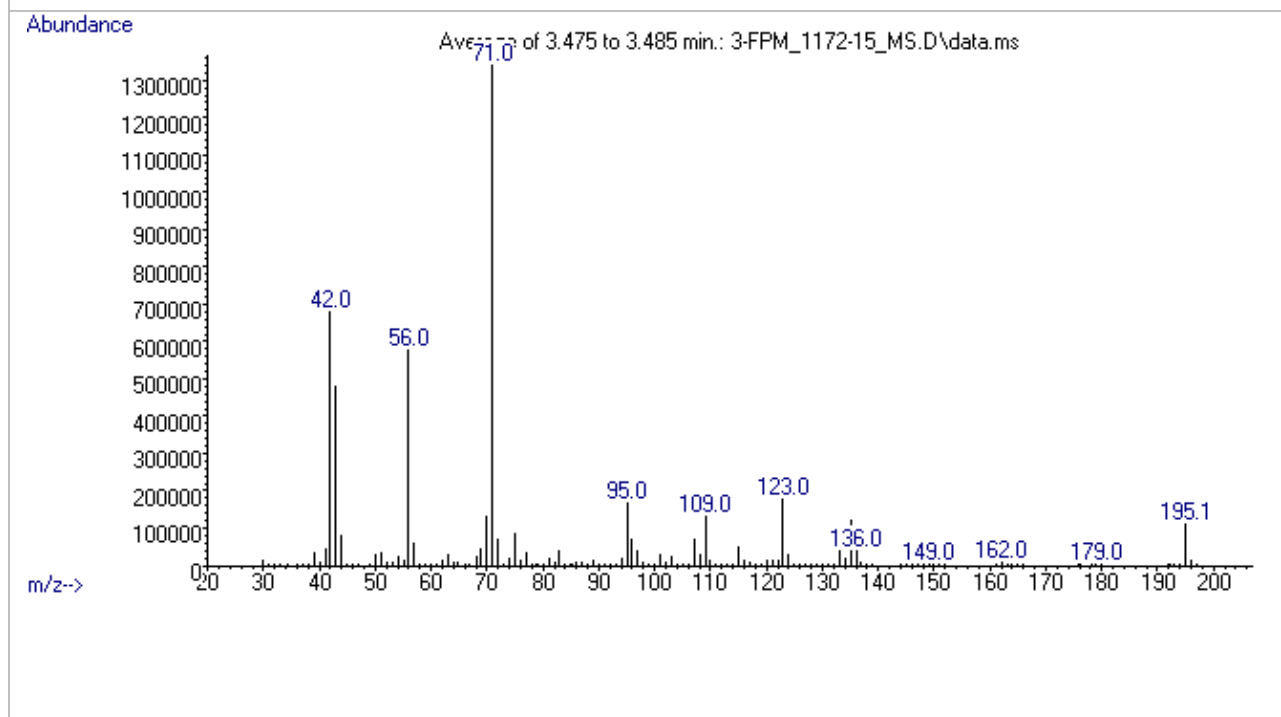
Substance identified- structure <sup>i</sup> (base form)	
Systematic name	2-(3-fluorophenyl)-3-methylmorpholine
Other names	3-FPM
Formula (per base form)	C <sub>11</sub> H <sub>14</sub> FNO
M <sub>w</sub> (g/mol)	195.23
Salt form	salt HCl
Other compounds detected	none
Smiles	FC=1C=C(C=CC1)C1OCCNC1C
Compound Class	Others

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.

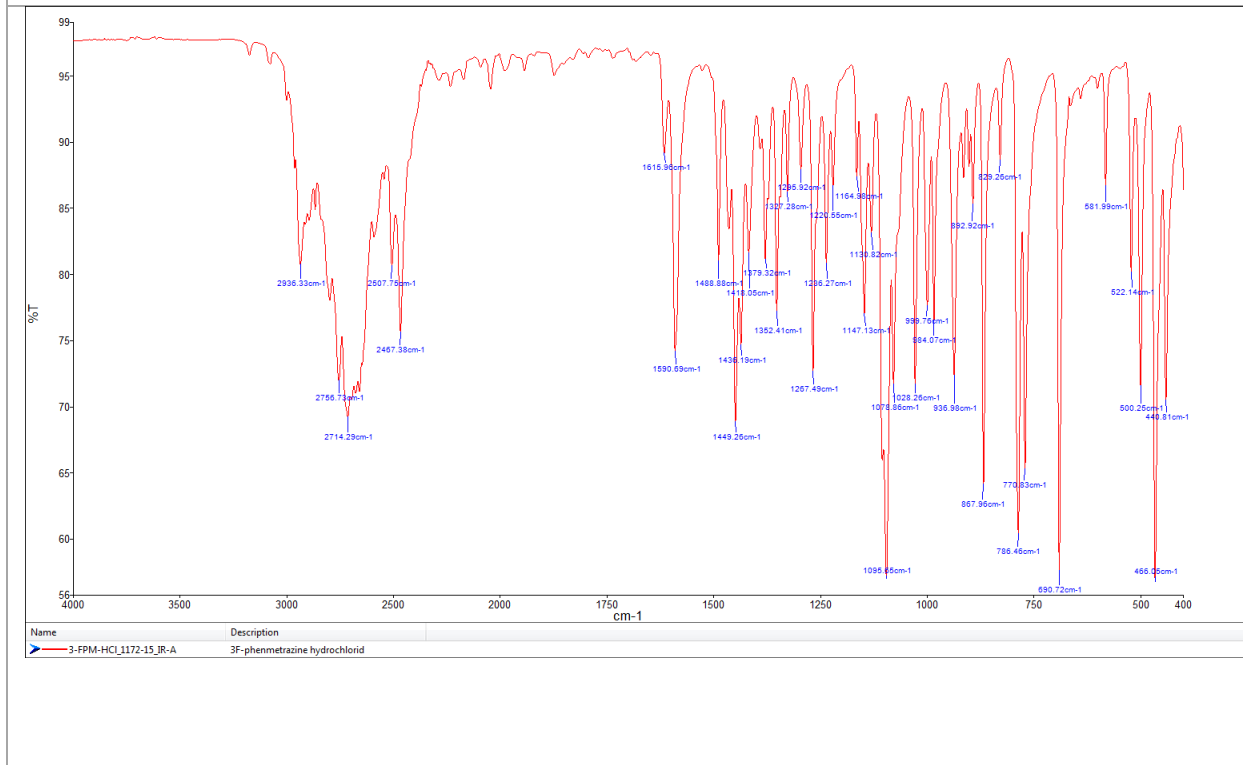
## Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	BP(1): 71; BP(2): 42,BP(3) :56
FTIR-ATR	+	salt HCl
FTIR (condensed phase)		
HPLC-TOF	+	Exact mass: 195.1059, measured/ $\Delta$ ppm:-2.15; formula: C <sub>11</sub> H <sub>14</sub> FNO
NMR-confirmed	+	
validation		
other		

## MS spectrum (EI)



## FTIR - ATR



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

# Target Compound Screening Report

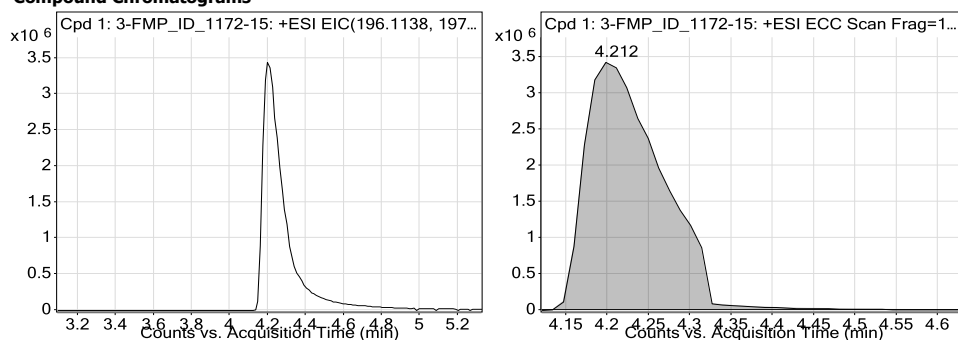
<b>Data File</b>	3-FPM_ID_1172-15_TOF.d	<b>Sample Name</b>	3-FPM
<b>Sample Type</b>	Sample	<b>Position</b>	P1-F5
<b>Instrument Name</b>	SG13170002	<b>User Name</b>	
<b>Acq Method</b>	droge general-2-4-2015-XDB-C18-ESI-poz.m	<b>Acquired Time</b>	4/10/2015 9:34:24 AM
<b>IRM Calibration Status</b>	Success	<b>DA Method</b>	Droge_Default.m
<b>Comment</b>	white powder, extract in MeOH		

## Compound Table

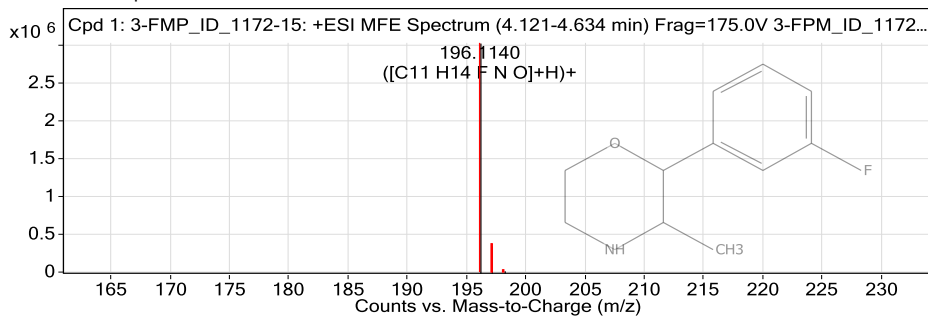
Label	Tgt Name	MFG Formula	Tgt Formula	Obs. RT	Obs. Mass
Cpd 1: 3-FPM_ID_1172-15	3-FPM_ID_1172-15	C11 H14 F N O	C11 H14 F N O	4.212	195.1067

Name	Obs. m/z	Obs. RT	Obs. Mass	DB RT	DB Formula	DB Mass	DB Mass Error	Tgt Formula	Find Cpds Algorith
3-FPM_ID_1172-15	196.114	4.212	195.1067	4.211	C11 H14 F N O	195.1059	-3.76	C11 H14 F N O	Find by Molecular Feature

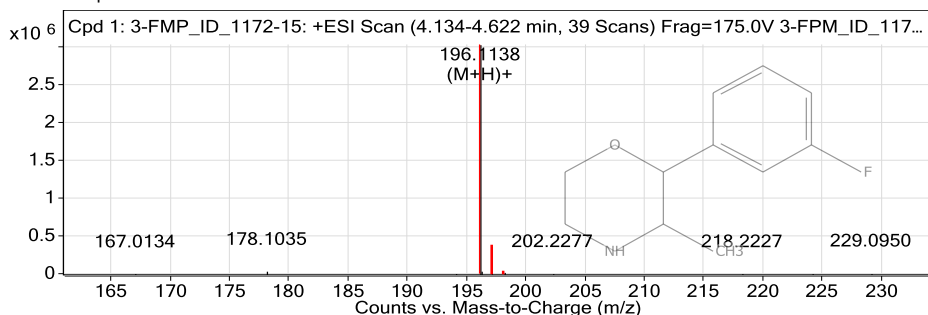
## Compound Chromatograms



## MFE MS Zoomed Spectrum



## MS Zoomed Spectrum



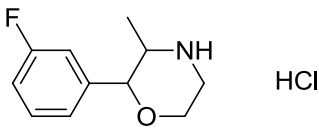
## MS Spectrum Peak List

Obs. m/z	Charge	Abund	Formula	Ion/Isotope
196.114	1	3034731.25	C11 H14 F N O	(M+H)+
197.1168	1	363243.04	C11 H14 F N O	(M+H)+
198.1196	1	28945.91	C11 H14 F N O	(M+H)+
199.1211	1	1569.9	C11 H14 F N O	(M+H)+

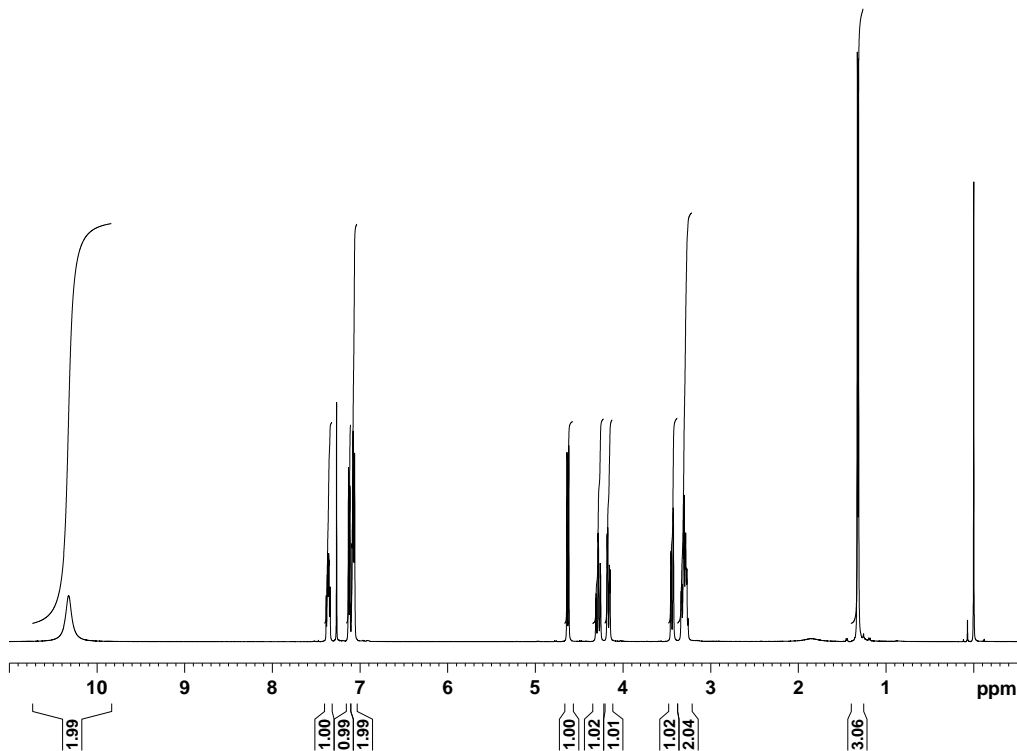
--- End Of Report ---



## REPORT

Sample ID:	<b>1172-15</b>
Our notebook code:	P-1172-15
NMR sample preparation:	15 mg dissolved in 0.7 mL CDCl <sub>3</sub>
NMR experiments:	<sup>1</sup> H, <sup>13</sup> C, <sup>1</sup> H- <sup>1</sup> H <i>gs</i> -COSY, <sup>1</sup> H- <sup>13</sup> C <i>gs</i> -HSQC, <sup>1</sup> H- <sup>13</sup> C <i>gs</i> -HMBC, <sup>1</sup> H- <sup>15</sup> N <i>gs</i> -HMBC, <sup>19</sup> F
Proposed structure with chemical name:	 <p>2-(3-fluorophenyl)-3-methylmorpholine hydrochloride</p>
Comments:	<ul style="list-style-type: none"> <li>- Structure elucidation based on 1D and 2D NMR spectra</li> <li>- Compound is pure by NMR</li> </ul>
Supporting information:	Copies of <sup>1</sup> H and <sup>13</sup> C NMR spectra
Author:	Prof. Dr. Janez Košmrlj
Date of report:	April 30, 2015

P-1172-15  
1H



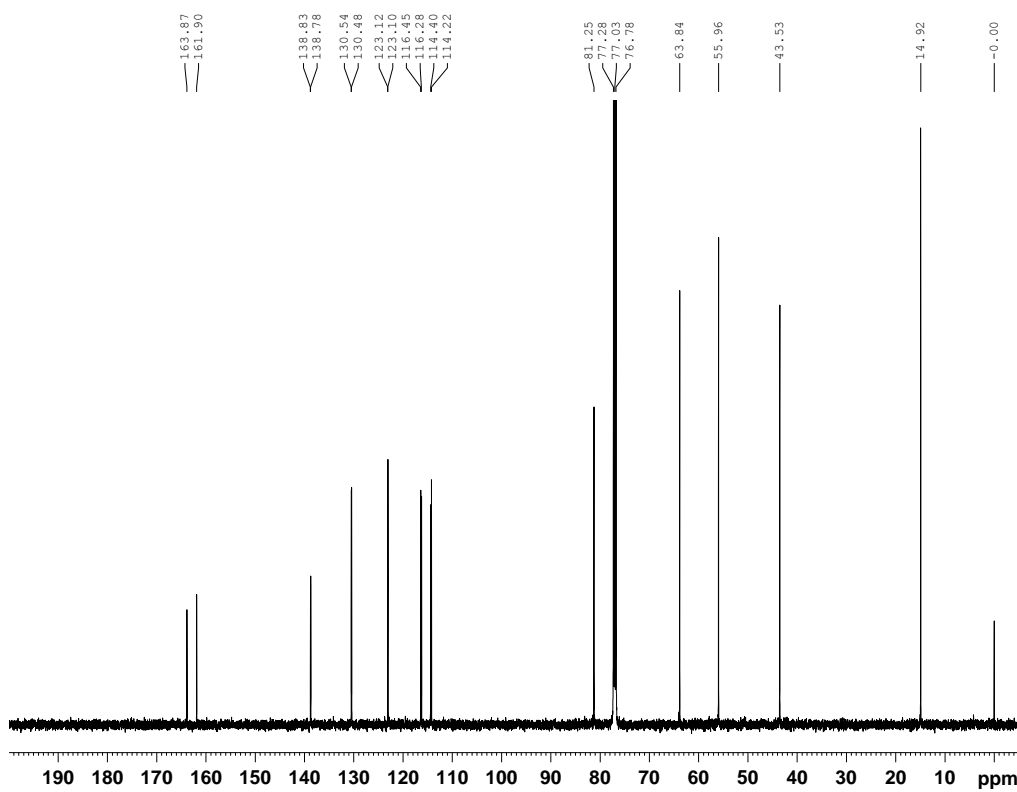
Current Data Parameters  
NAME P-1172-15  
EXFNO 1  
PROCNO 1

F2 - Acquisition Parameters  
Date 20150423  
Time 19.10  
INSTRUM spect  
PROBHD 5 mm FAPBO BB-  
FULPROG zg30  
TD 65536  
SOLVENT CDCl3  
NS 16  
DS 2  
SWH 10330.578 Hz  
FIDRES 0.157632 Hz  
AQ 3.1719923 sec  
RG 114  
DW 48.400 usec  
DE 6.50 usec  
TE 296.0 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 500.1300095 MHz  
WDW EM  
SSB 0  
LB 0.30 Hz  
GB 0  
PC 1.00

P-1172-15  
13C



Current Data Parameters  
NAME P-1172-15  
EXFNO 2  
PROCNO 1

F2 - Acquisition Parameters  
Date 20150423  
Time 21.39  
INSTRUM spect  
PROBHD 5 mm FAPBO BB-  
FULPROG 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  
F1 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 125.7577899 MHz  
WDW EM  
SSB 0  
LB 1.00 Hz  
GB 0  
PC 1.40