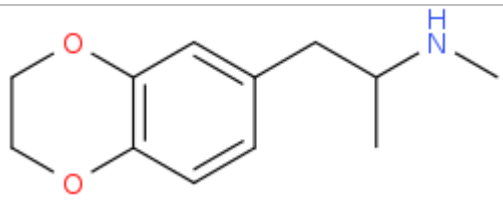


## ANALYTICAL REPORT

3,4-EDMA (C<sub>12</sub>H<sub>17</sub>NO<sub>2</sub>)**[1-(2,3-dihydro-1,4-benzodioxin-6-yl)propan-2-yl](methyl)amine**Remark – other active cpd. detected: **none**

Sample ID:	1921-18
Sample description:	powder - white
Sample type:	RM-reference material
Comments:	CAY Lot#0457928-14,
Date of entry (DD/MM/YYYY):	09/04/2018

Substance identified- structure <sup>1</sup> (base form)	
Systematic name:	[1-(2,3-dihydro-1,4-benzodioxin-6-yl)propan-2-yl](methyl)amine
Other names:	3,4-Ethylenedioxy-N-methylamphetamine; 1-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-N-methylpropan-2-amine
Formula (per base form)	C <sub>12</sub> H <sub>17</sub> NO <sub>2</sub>
M <sub>w</sub> (g/mol)	207,27
Salt form:	HCl
StdInChIKey (per base form)	UJKWLAZYSLJTKA-UHFFFAOYSA-N
Other active cpd. detected	none
Add.info (purity..)	100 %

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

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## Report updates

date	comments (explanation)

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## Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 5,09 BP(1): 58; BP(2): 150,BP(3) :65,
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<sup>-1</sup>; resolution 4cm<sup>-1</sup>

**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.

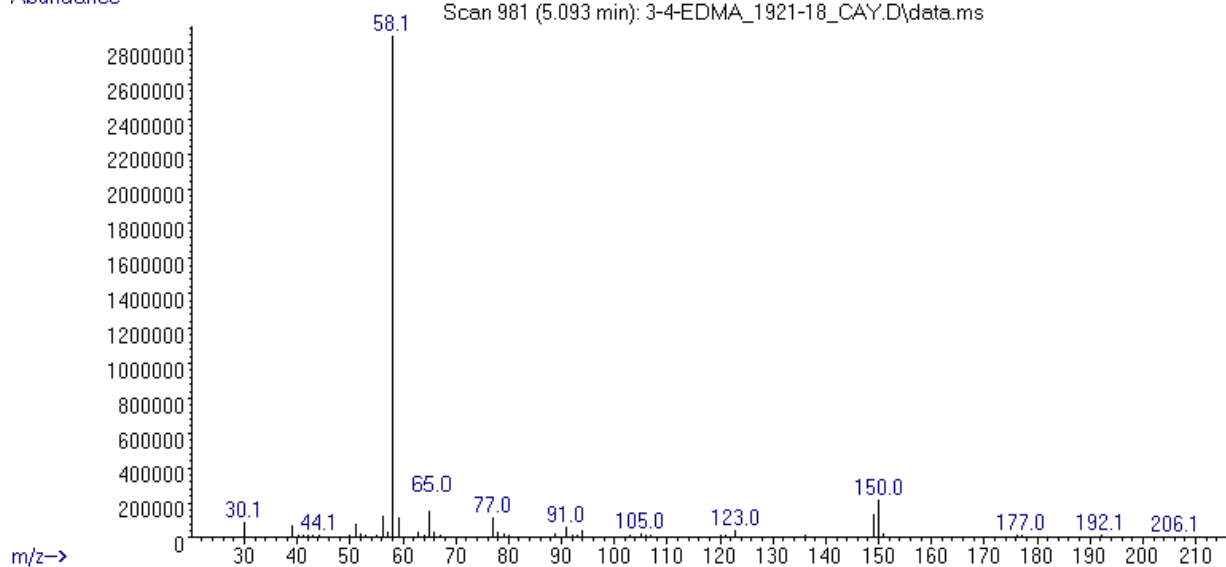
IR (condensed (solid) phase): IR scan range 4000 to 650, resolution 4 cm<sup>-1</sup>.

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

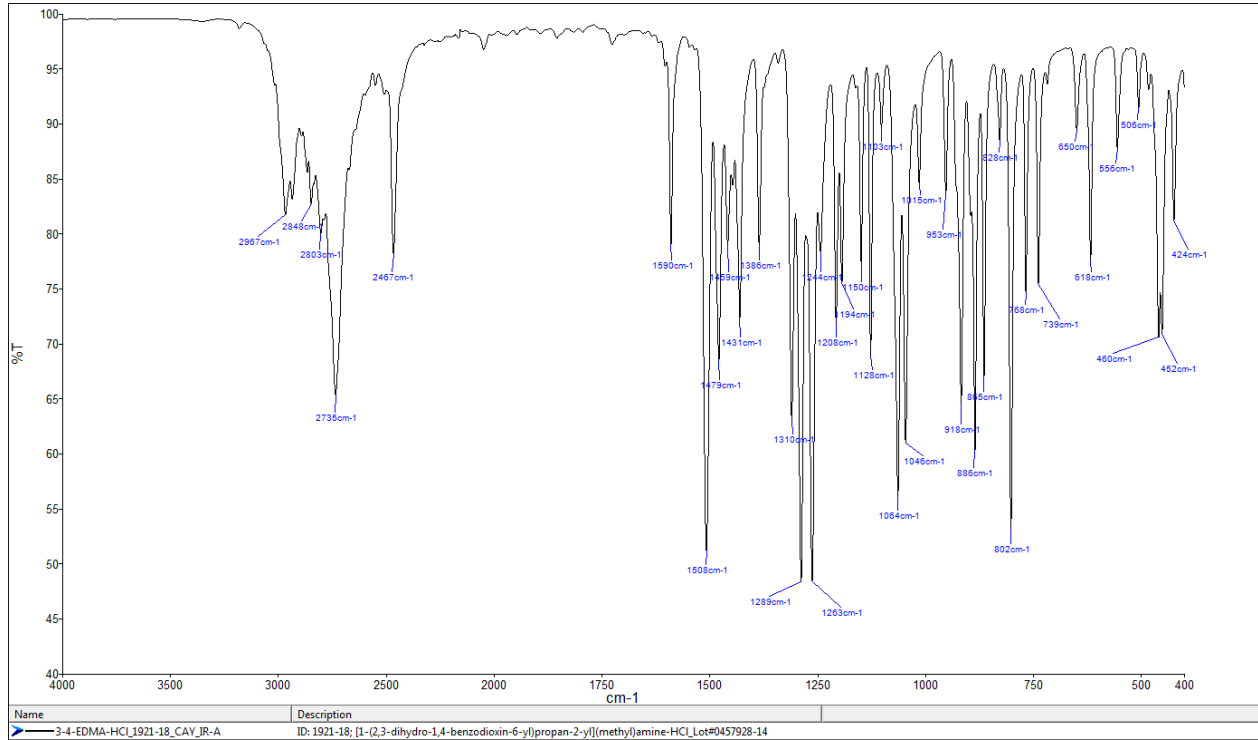
# ANALYTICAL RESULTS

MS (EI)

Abundance



FTIR-ATR - sample as received



IR (condensed phase – after chromatographic separation)

