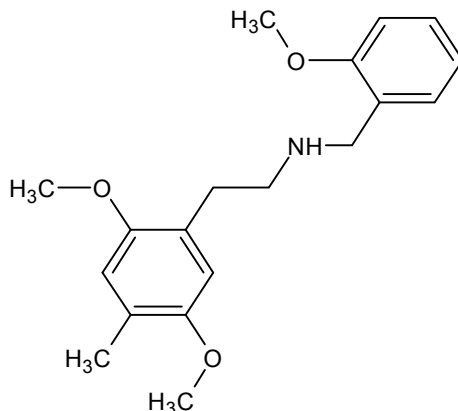




## 25D-NBOMe

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.



### 1. GENERAL INFORMATION

<b>IUPAC Name:</b>	2-(2,5-dimethoxy-4-methylphenyl)-N-(2-methoxybenzyl)ethanamine
<b>CAS#:</b>	1354632-02-2 (base), 1539266-35-7 (HCl)
<b>Synonyms:</b>	25D-NB2OMe, 2C-D-NBOMe
<b>Source:</b>	DEA Reference Material Collection
<b>Appearance:</b>	White powder (HCl)
<b>UV<sub>max</sub> (nm):</b>	Not Determined

### 2. CHEMICAL AND PHYSICAL DATA

#### 2.1 CHEMICAL DATA

Form	Chemical Formula	Molecular Weight	Melting Point (°C)
Base	C <sub>19</sub> H <sub>25</sub> NO <sub>3</sub>	315	Not Determined
HCl	C <sub>19</sub> H <sub>25</sub> NO <sub>3</sub> · HCl	351	169.0



## 25D-NBOMe

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.

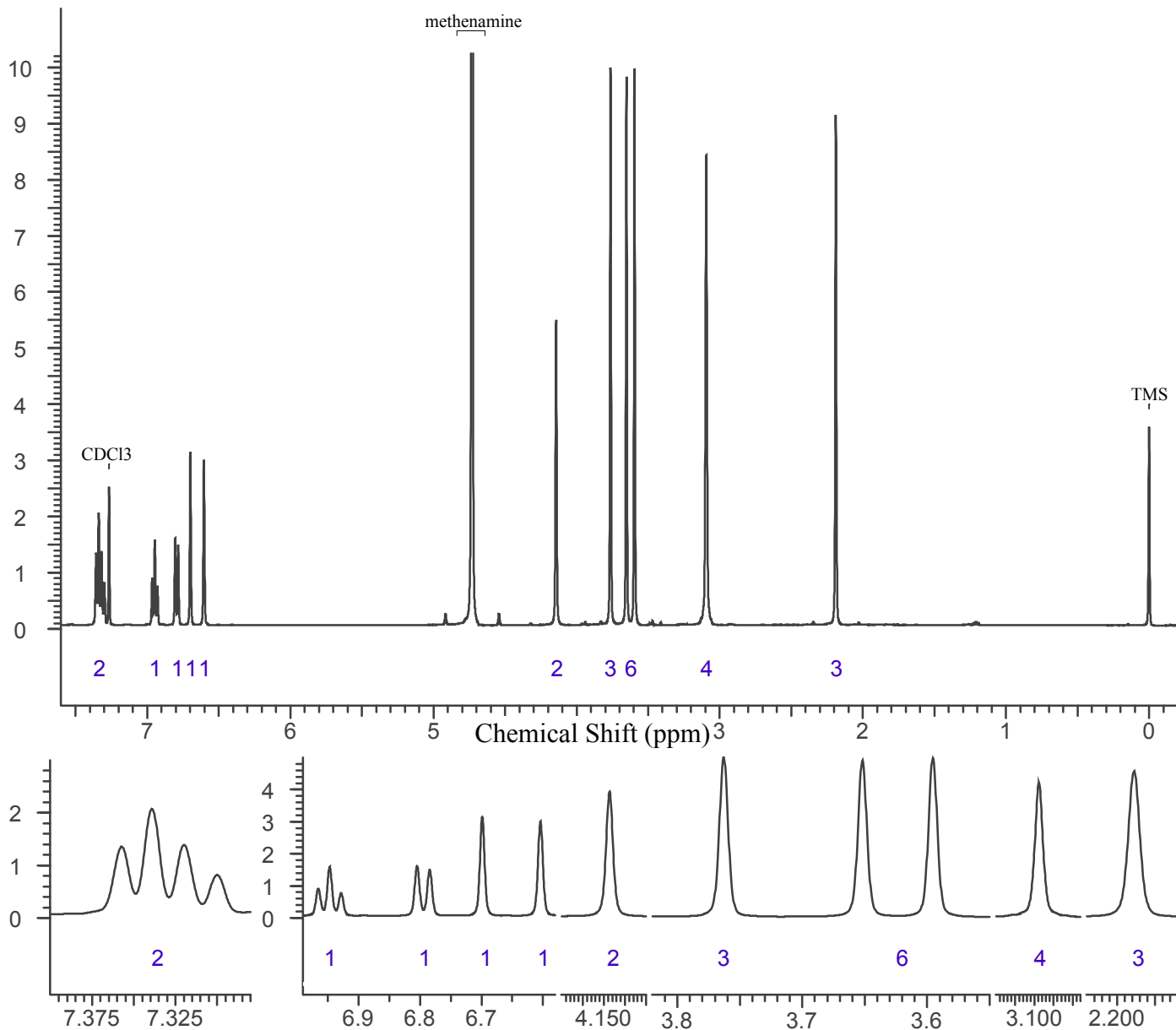


### 3. QUALITATIVE DATA

#### 3.1 NUCLEAR MAGNETIC RESONANCE

*Sample Preparation:* Dilute analyte to ~7 mg/mL in deuterium chloroform ( $\text{CDCl}_3$ ) containing TMS for 0 ppm reference and methenamine as quantitative internal standard.

**Instrument:** 400 MHz NMR spectrometer  
**Parameters:** Spectral width: at least containing -3 ppm through 13 ppm  
Pulse angle:  $90^\circ$   
Delay between pulses: 45 seconds  
 $^1\text{H}$  NMR: 25D-NBOMe HCl Lot# N17-P88C;  $\text{CDCl}_3$ ; 400MHz





## 25D-NBOMe

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.



### 3.2 Gas Chromatography/Mass Spectrometry

**Sample Preparation:** Dilute analyte ~ 4 mg/mL in methanol

**Instrument:** Agilent gas chromatograph operated in split mode with MS detector

**Column:** DB-1 MS (or equivalent); 30m x 0.25 mm x 0.25  $\mu$ m

**Carrier Gas:** Helium at 1 mL/min

**Temperatures:** Injector: 280°C  
MSD transfer line: 280°C

MS Source: 230°C

MS Quad: 150°C

Oven program:

1) 100°C initial temperature for 1.0 min

2) Ramp to 300°C at 12 °C/min

3) Hold final temperature for 9.0 min

**Injection Parameters:** Split Ratio = 20:1, 1  $\mu$ L injected

**MS Parameters:** Mass scan range: 34-550 amu

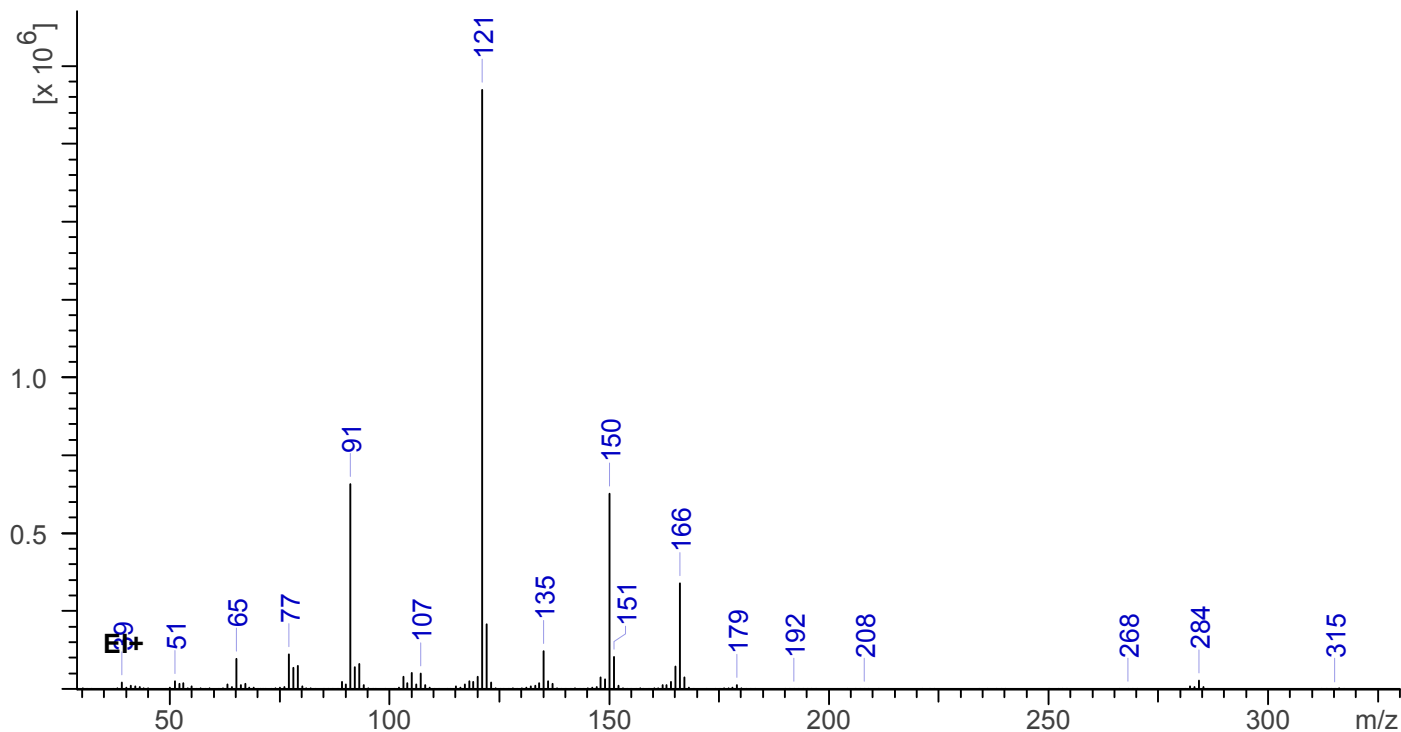
Threshold: 90

Tune file: stune.u

Acquisition mode: scan

**Retention Time:** 15.455 min

EI Mass Spectrum: 25D-NBOMe HCl Lot# N17-P88C





## 25D-NBOMe

The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.

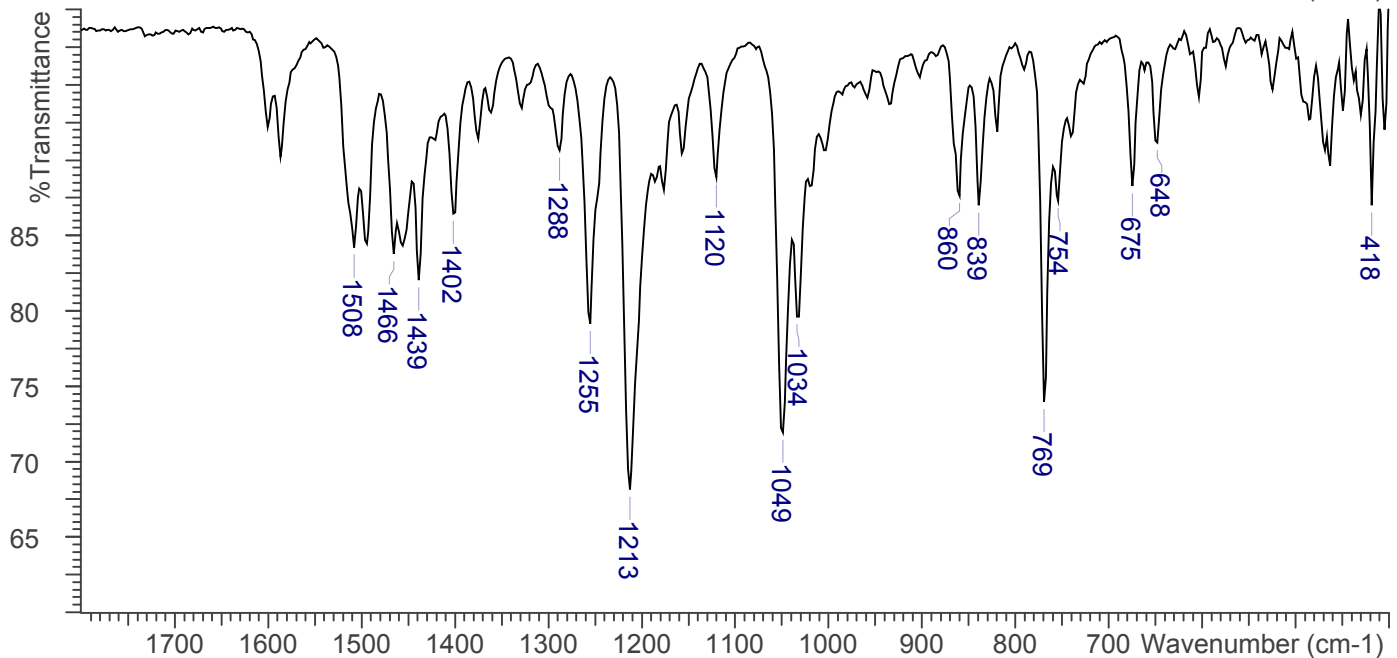
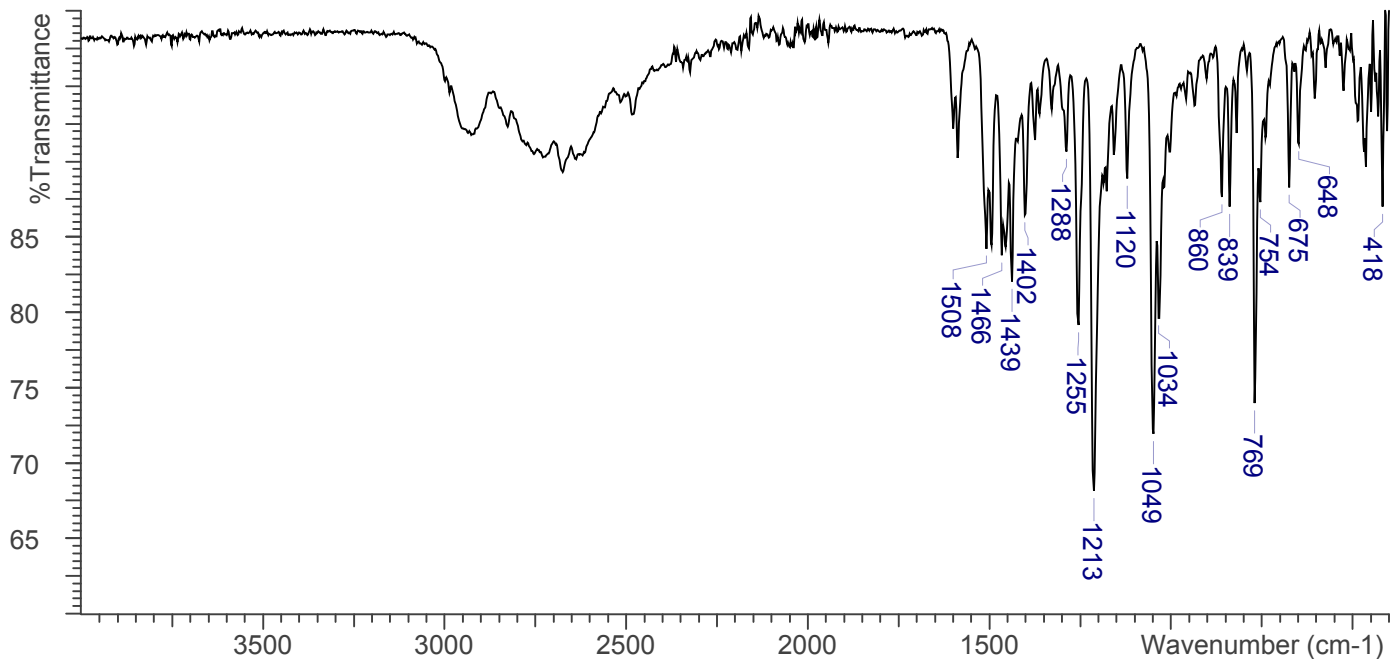


### 3.3 INFRARED SPECTROSCOPY (FTIR)

**Instrument:** FTIR with diamond ATR attachment (3 bounce)

**Scan Parameters:**  
Number of scans: 32  
Number of background scans: 32  
Resolution: 4  $\text{cm}^{-1}$   
Sample gain: 8  
Aperture: 150

FTIR ATR (Diamond, 3 Bounce): 25D-NBOMe HCl Lot# N17-P88C





## 25D-NBOMe

*The Drug Enforcement Administration's Special Testing and Research Laboratory generated this monograph using structurally confirmed reference material.*



### 4. **ADDITIONAL RESOURCES**

[Forendex](#)

[Wikipedia](#)