

Hydrogen-Bond-Assisted Hydroxylation of *o*-Fluorobenzamides: A Transition-Metal-Free Approach to Salicylamides

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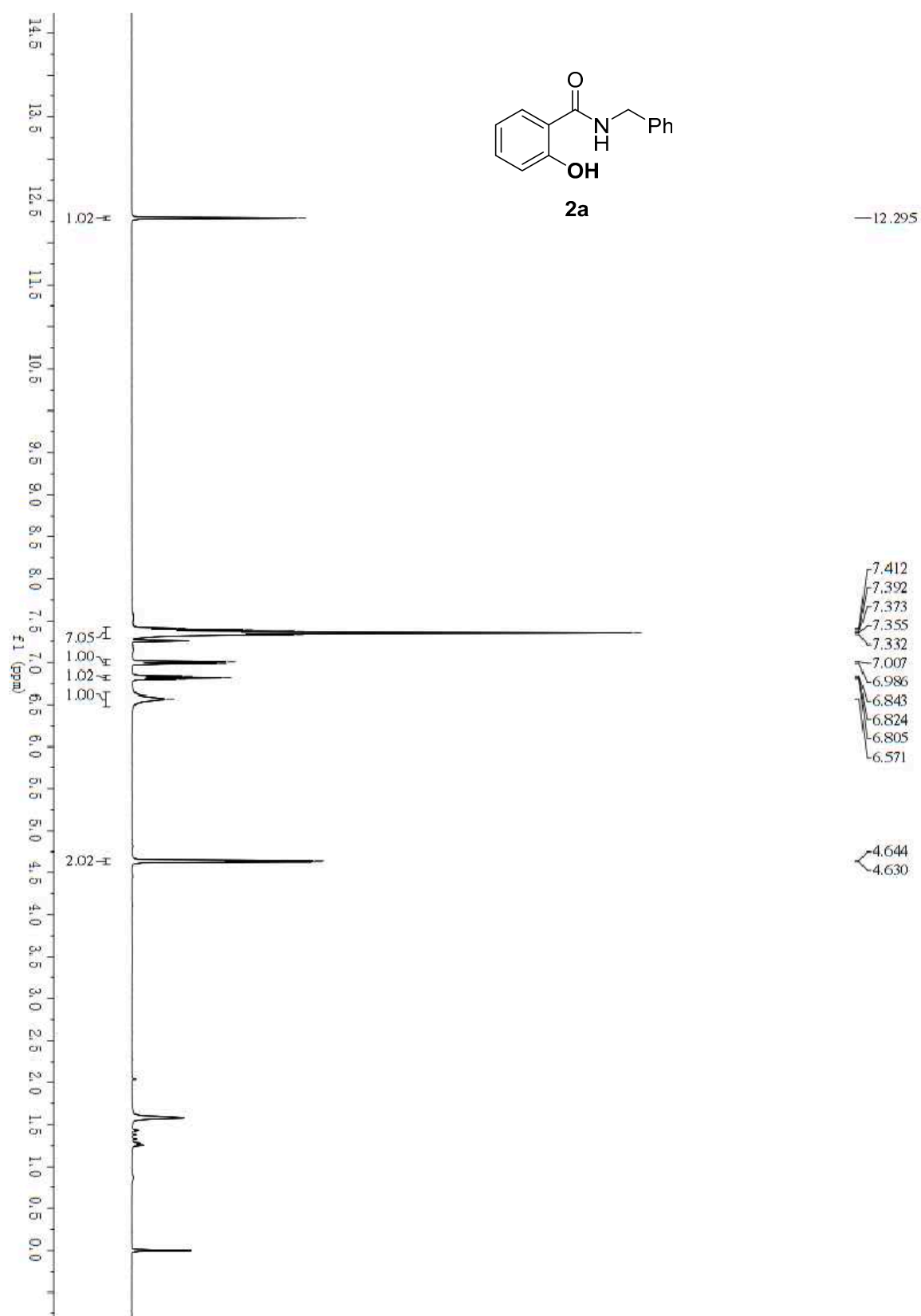
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Context

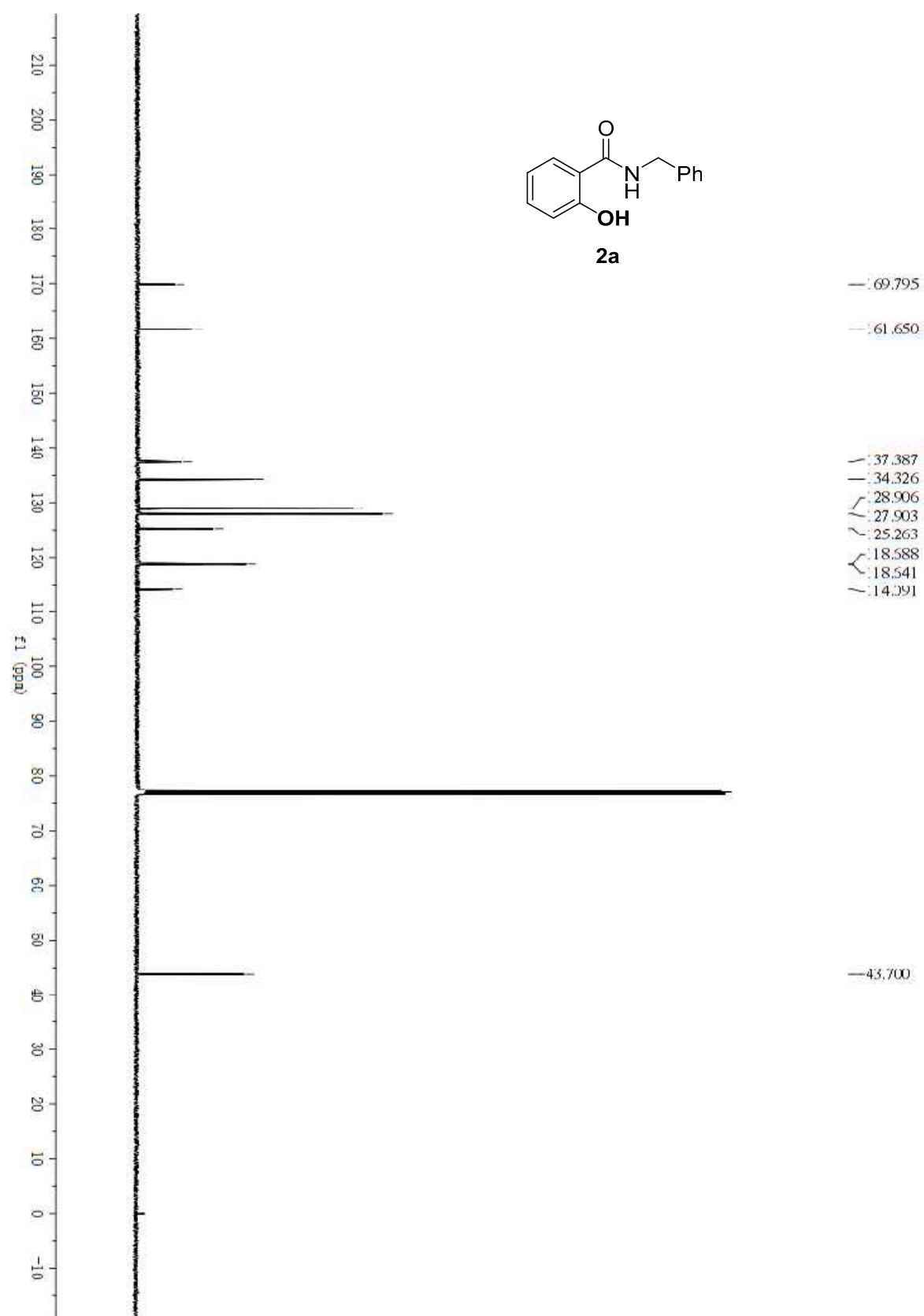
1. ¹H NMR and ¹³C{¹H} NMR spectra of products -----S2
2. HRMS spectra of the new compounds -----S58

1. ^1H NMR and $^{13}\text{C}\{^1\text{H}\}$ NMR spectra of products:

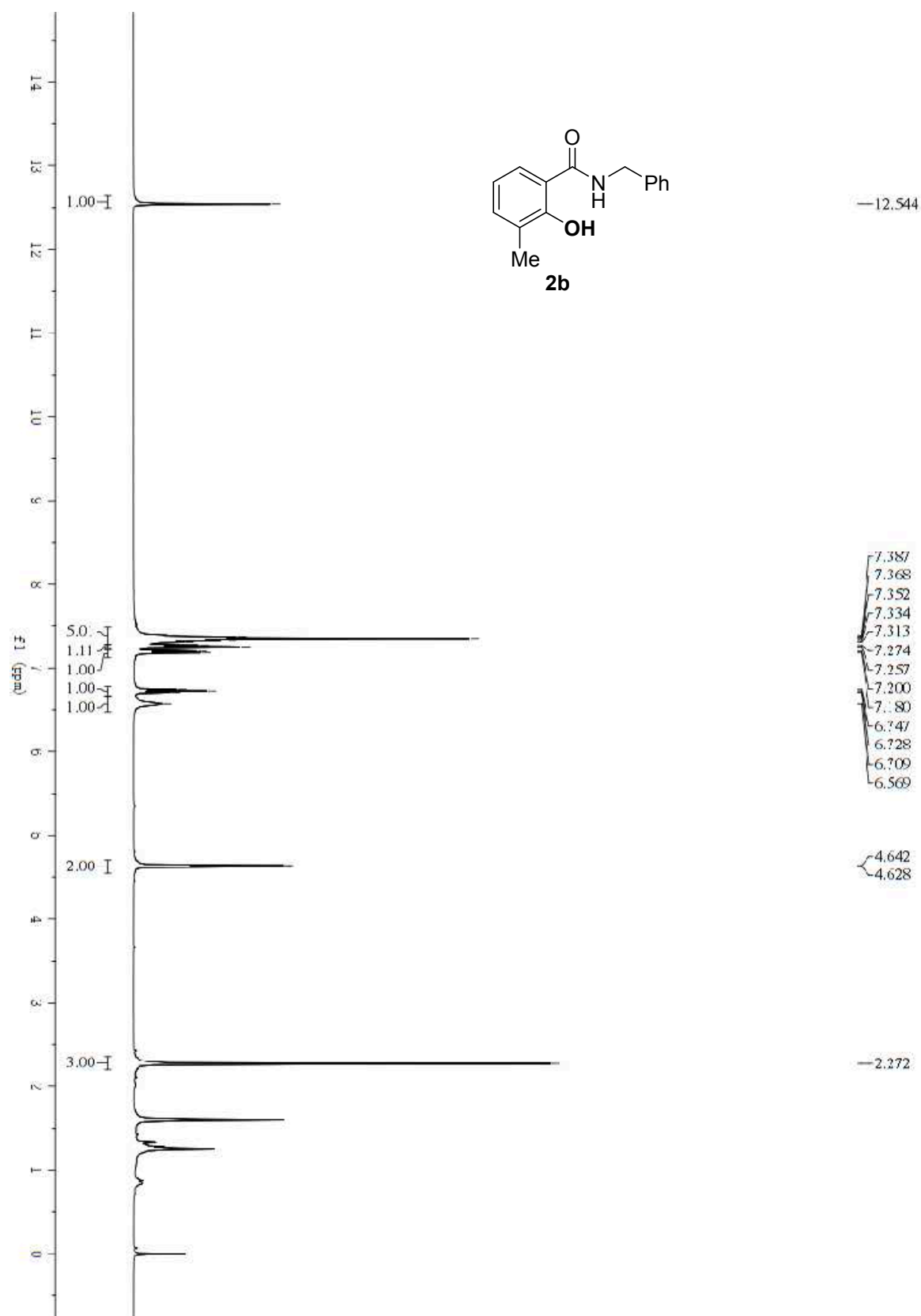
^1H NMR (400 MHz, CDCl_3) spectrum of **2a**



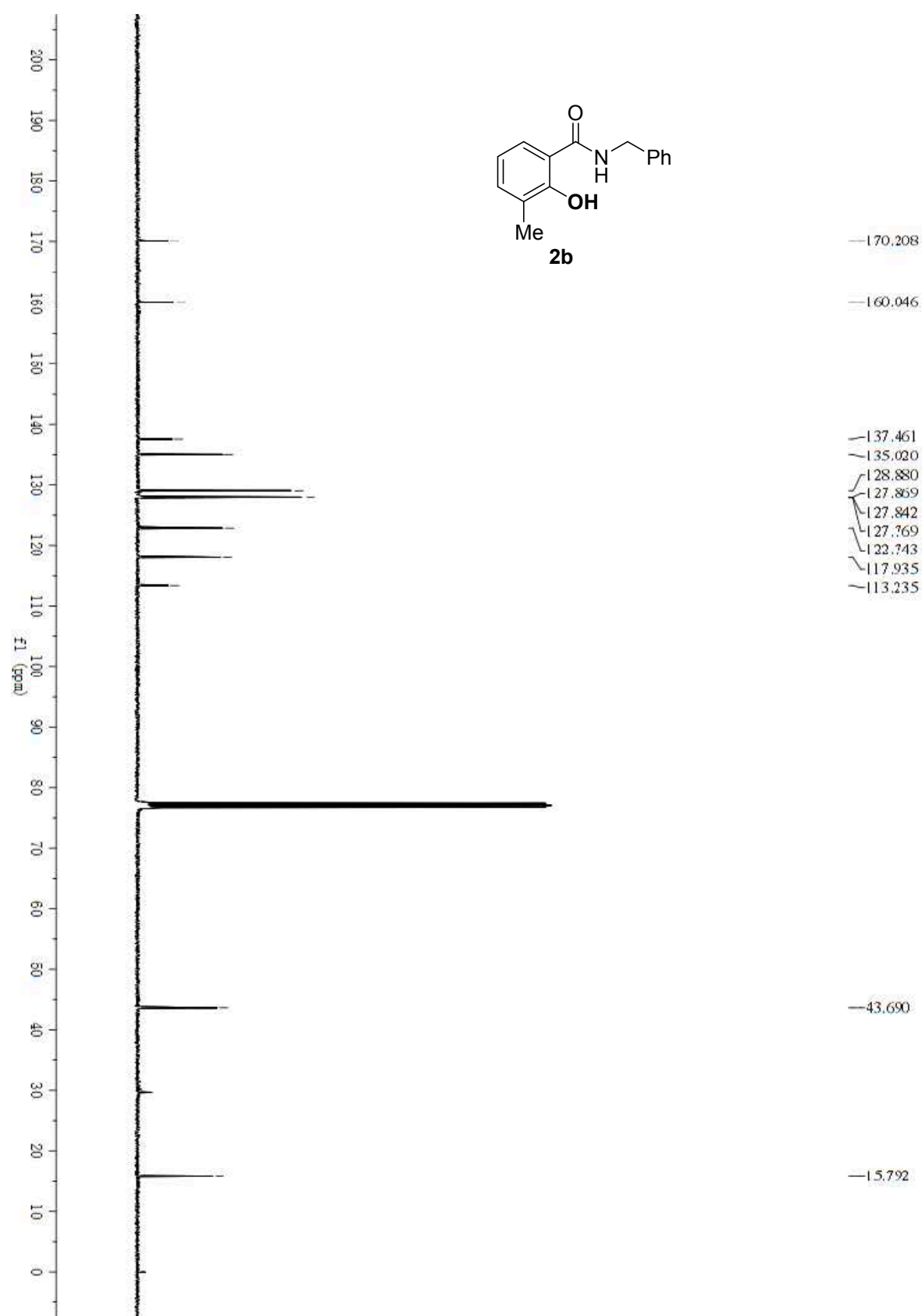
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2a**



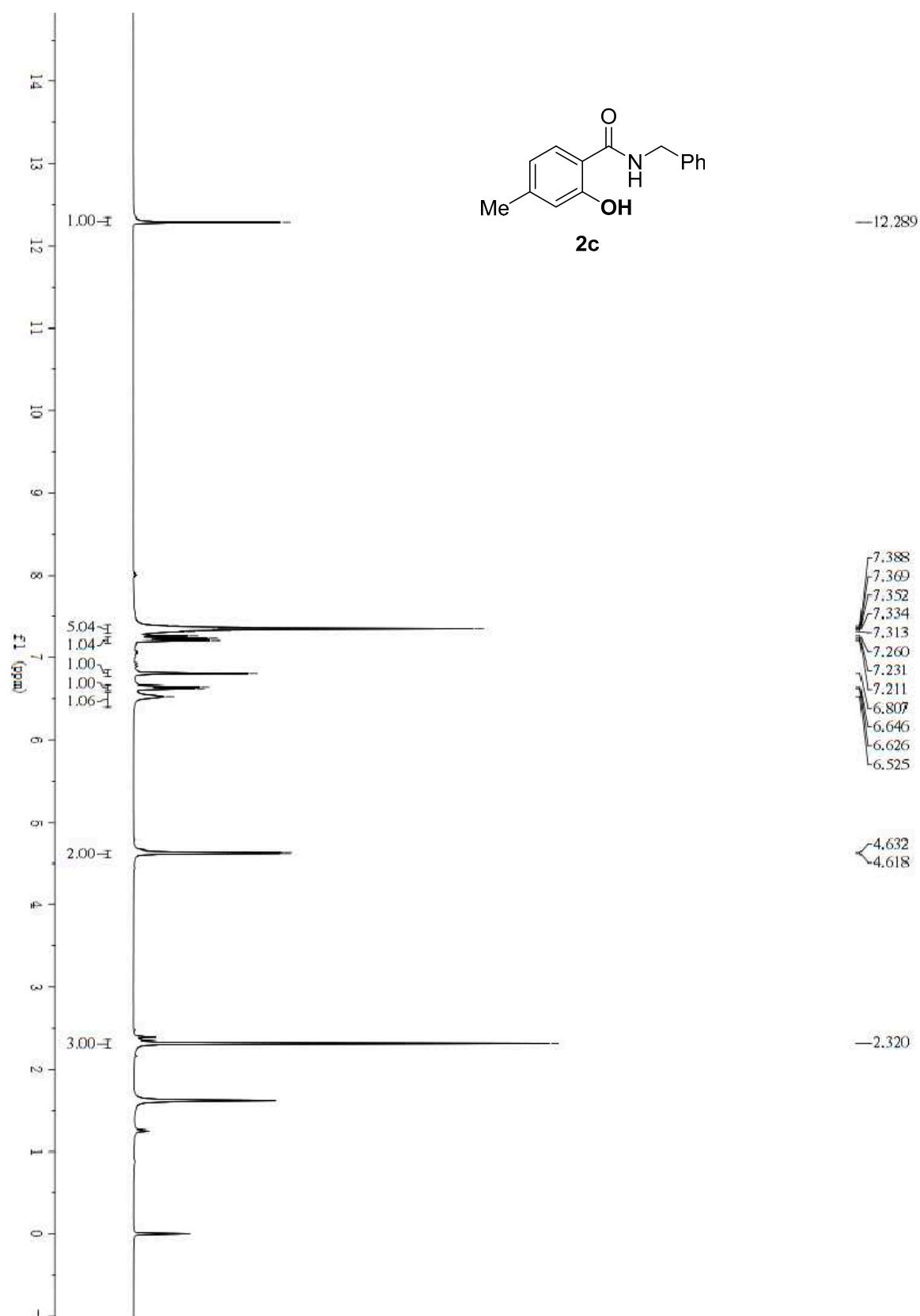
^1H NMR (400 MHz, CDCl_3) spectrum of **2b**



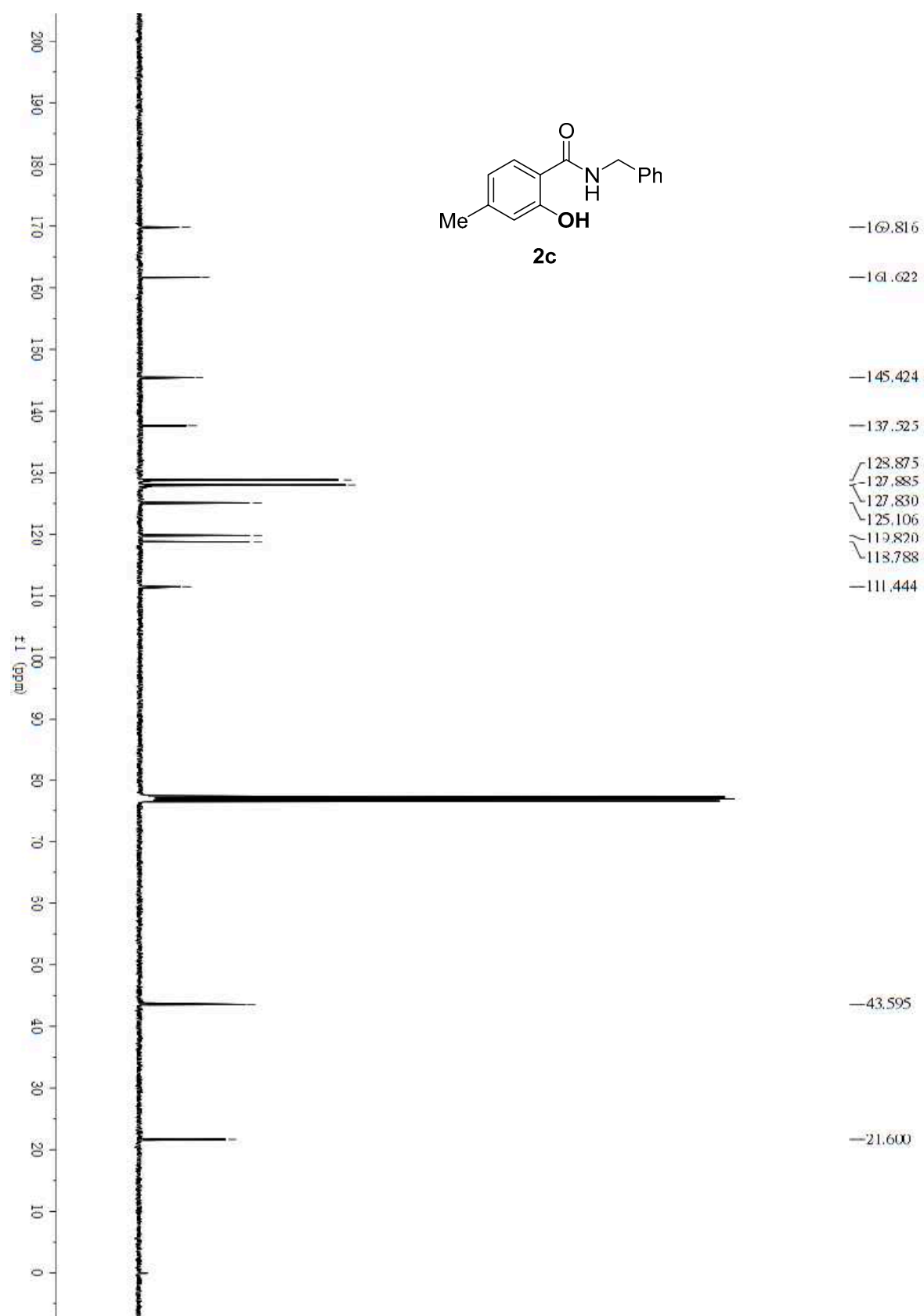
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2b**



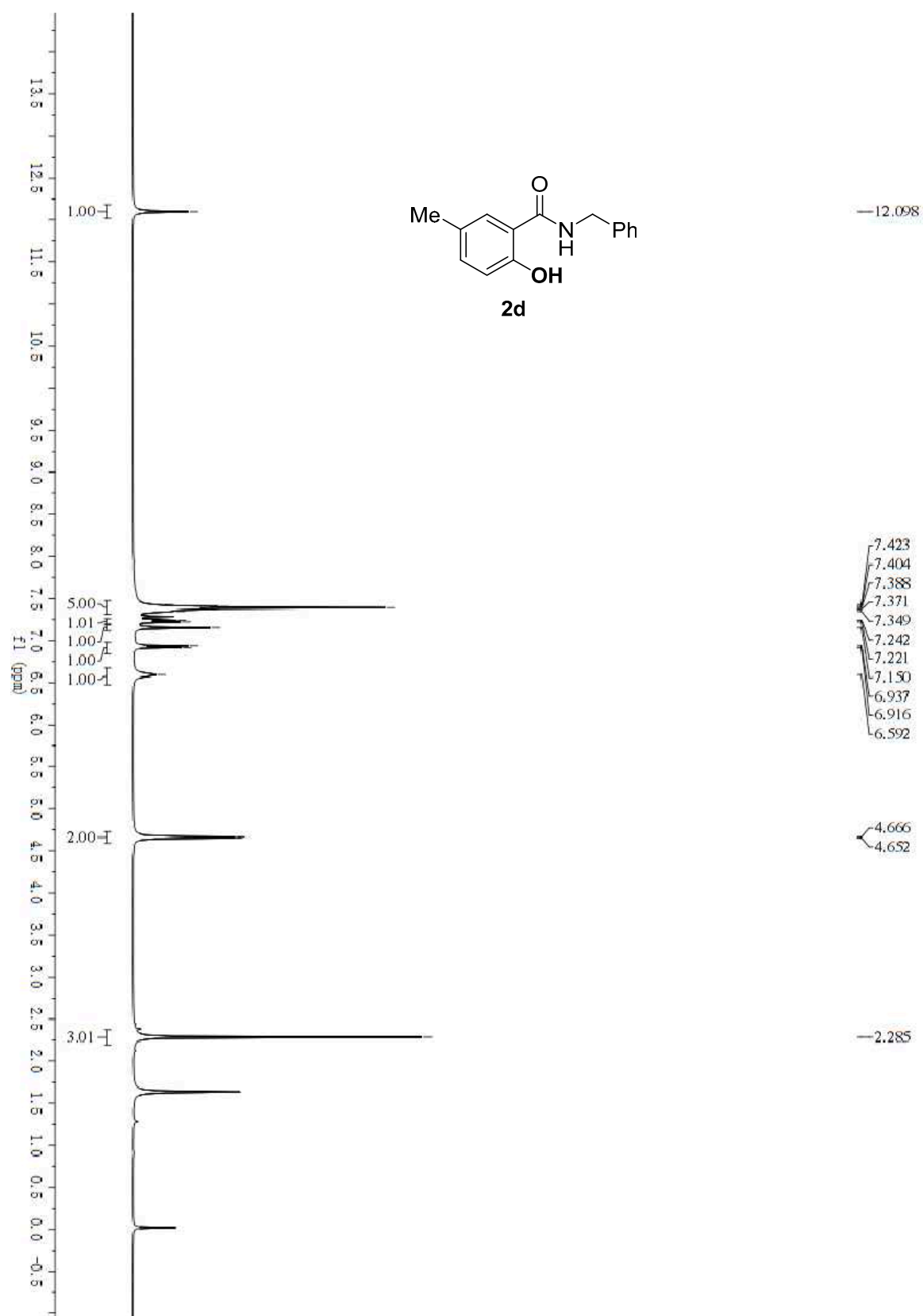
^1H NMR (400 MHz, CDCl_3) spectrum of **2c**



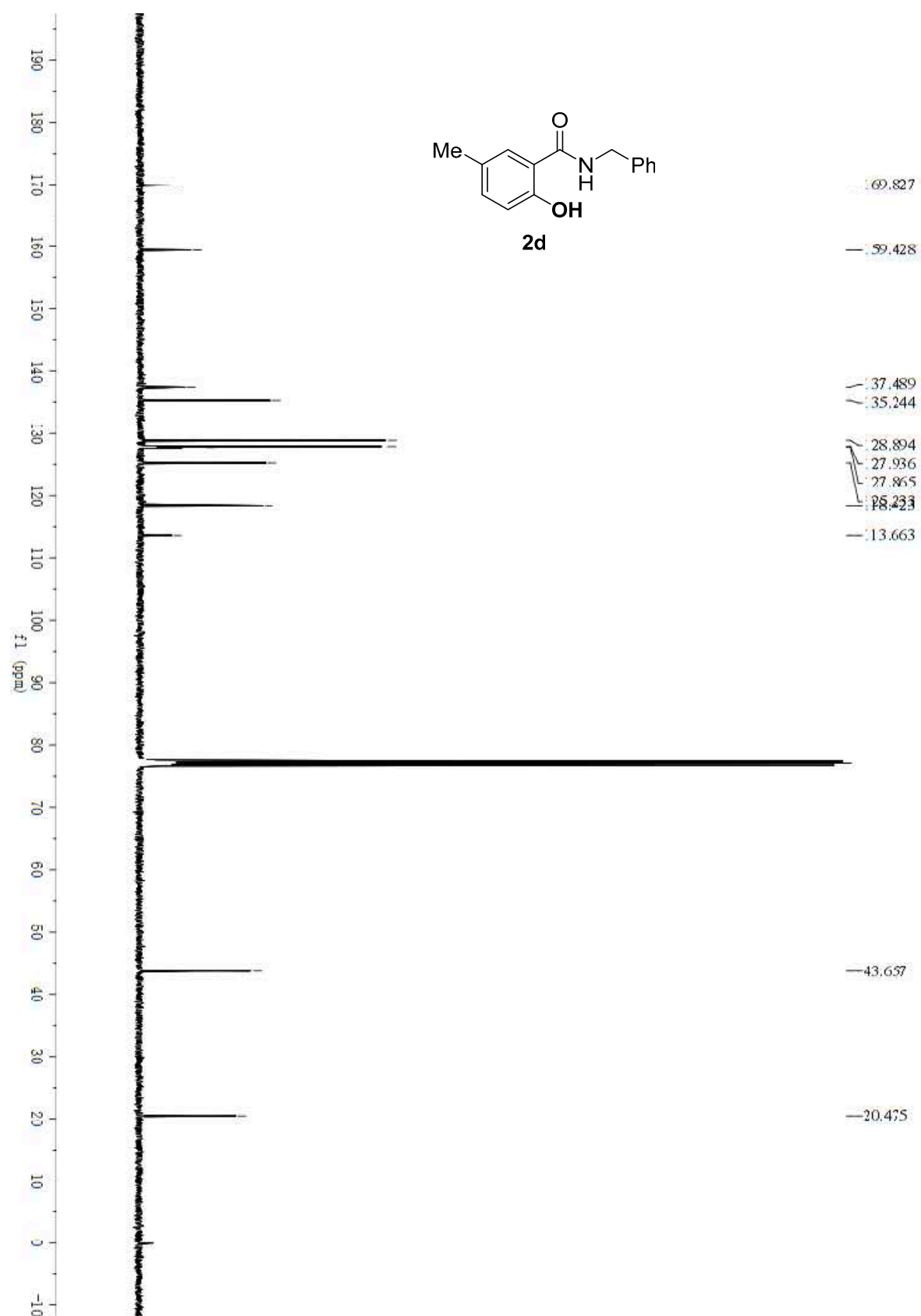
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2c**



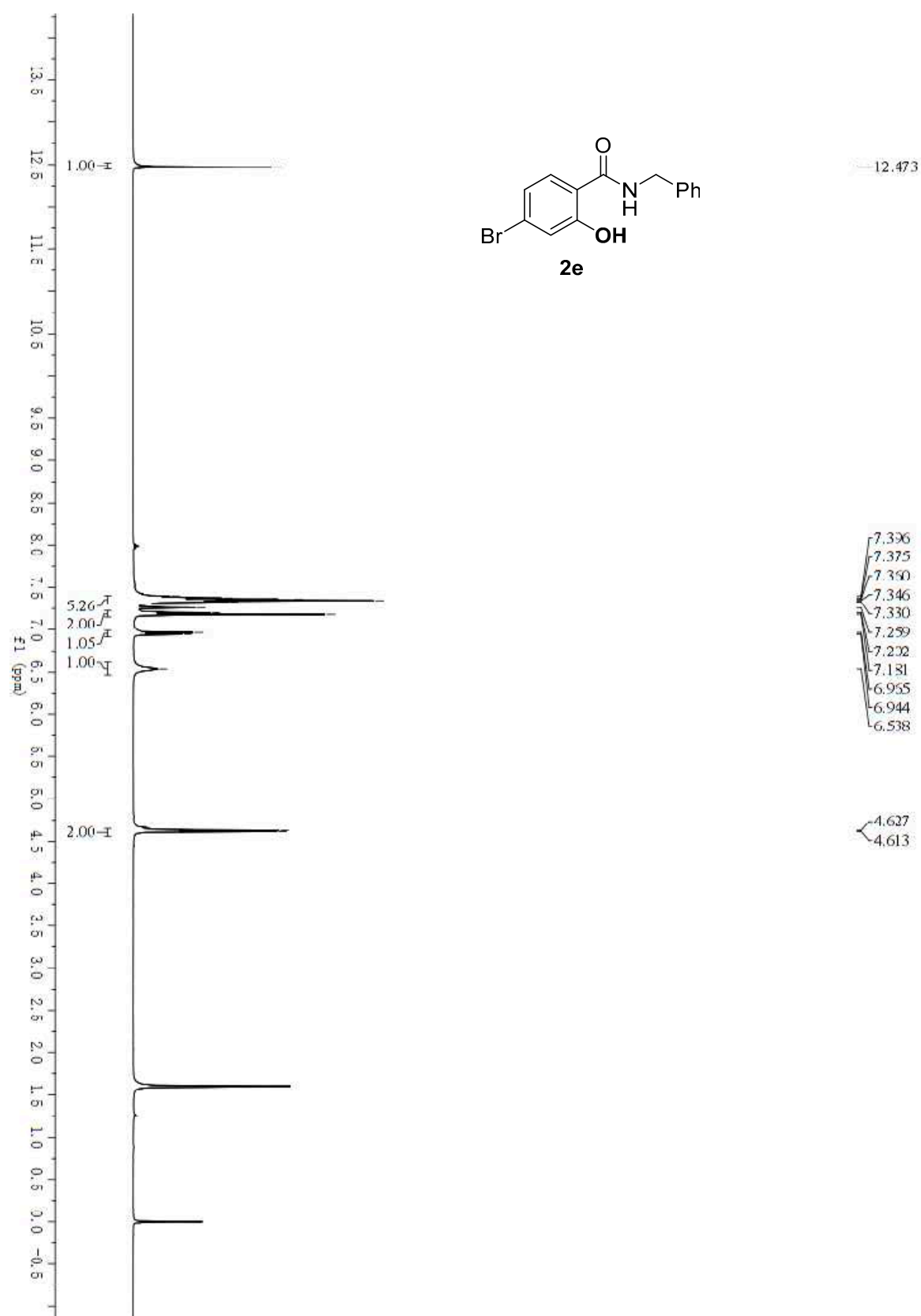
^1H NMR (400 MHz, CDCl_3) spectrum of **2d**



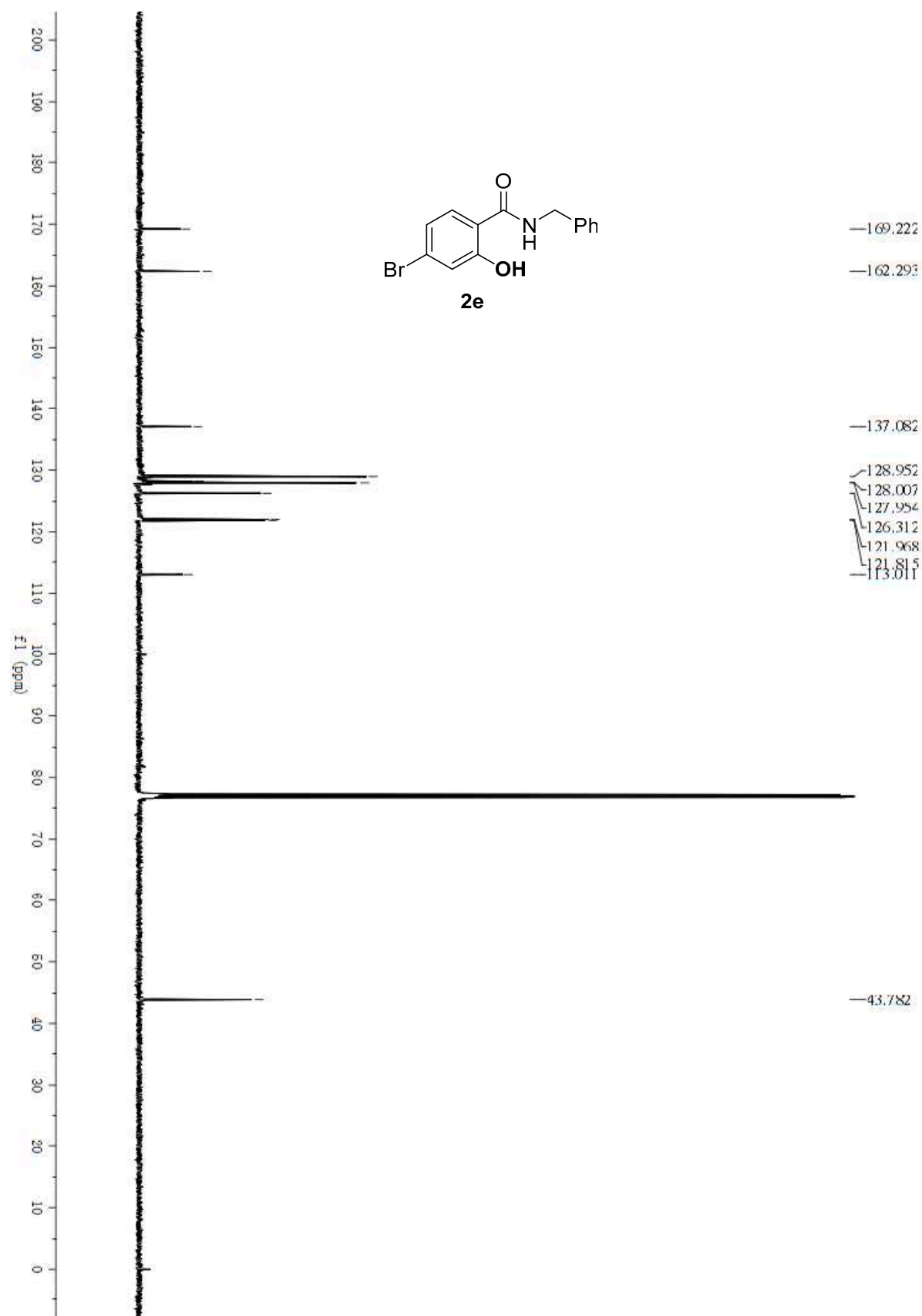
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2d**



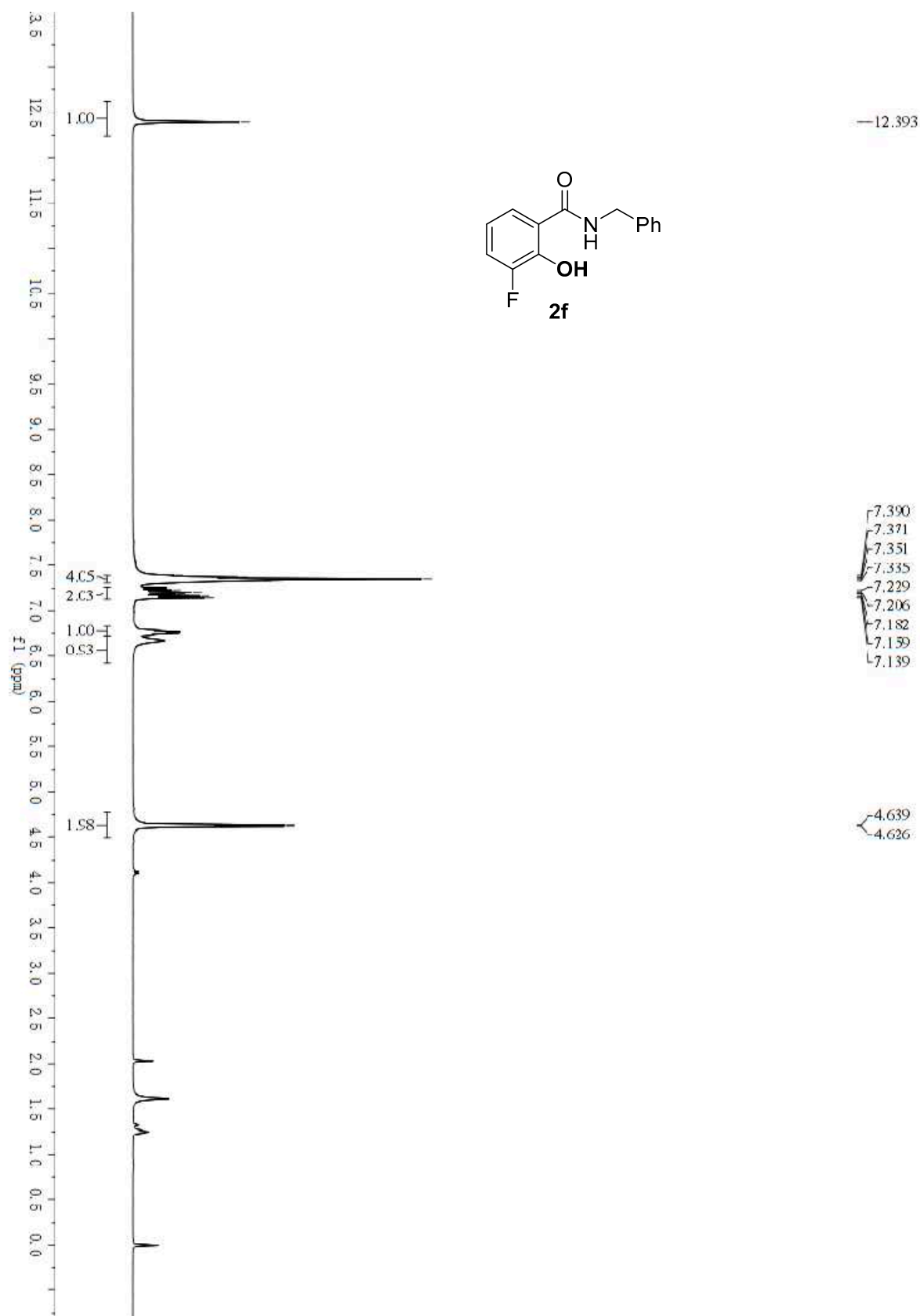
^1H NMR (400 MHz, CDCl_3) spectrum of **2e**



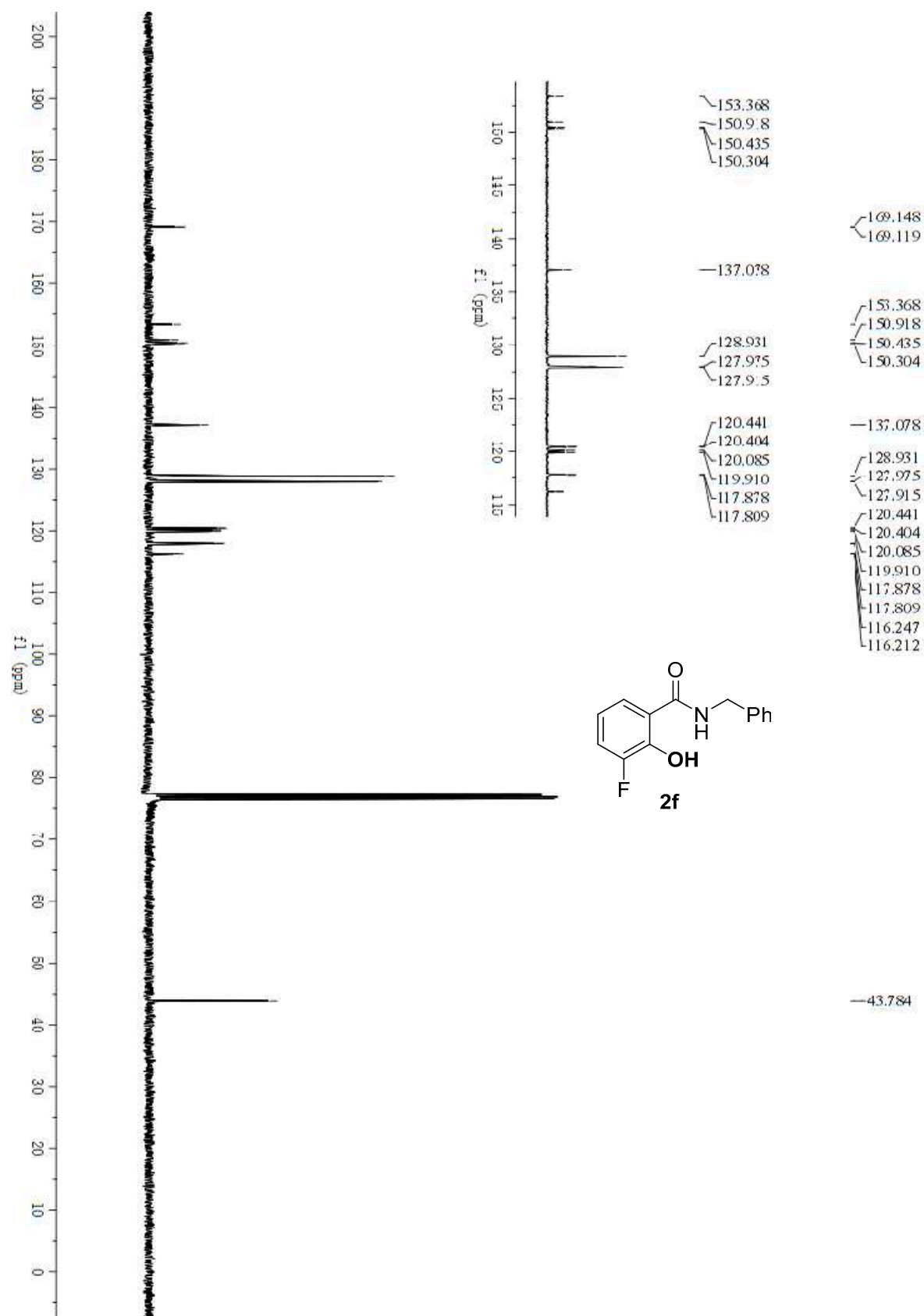
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2e**



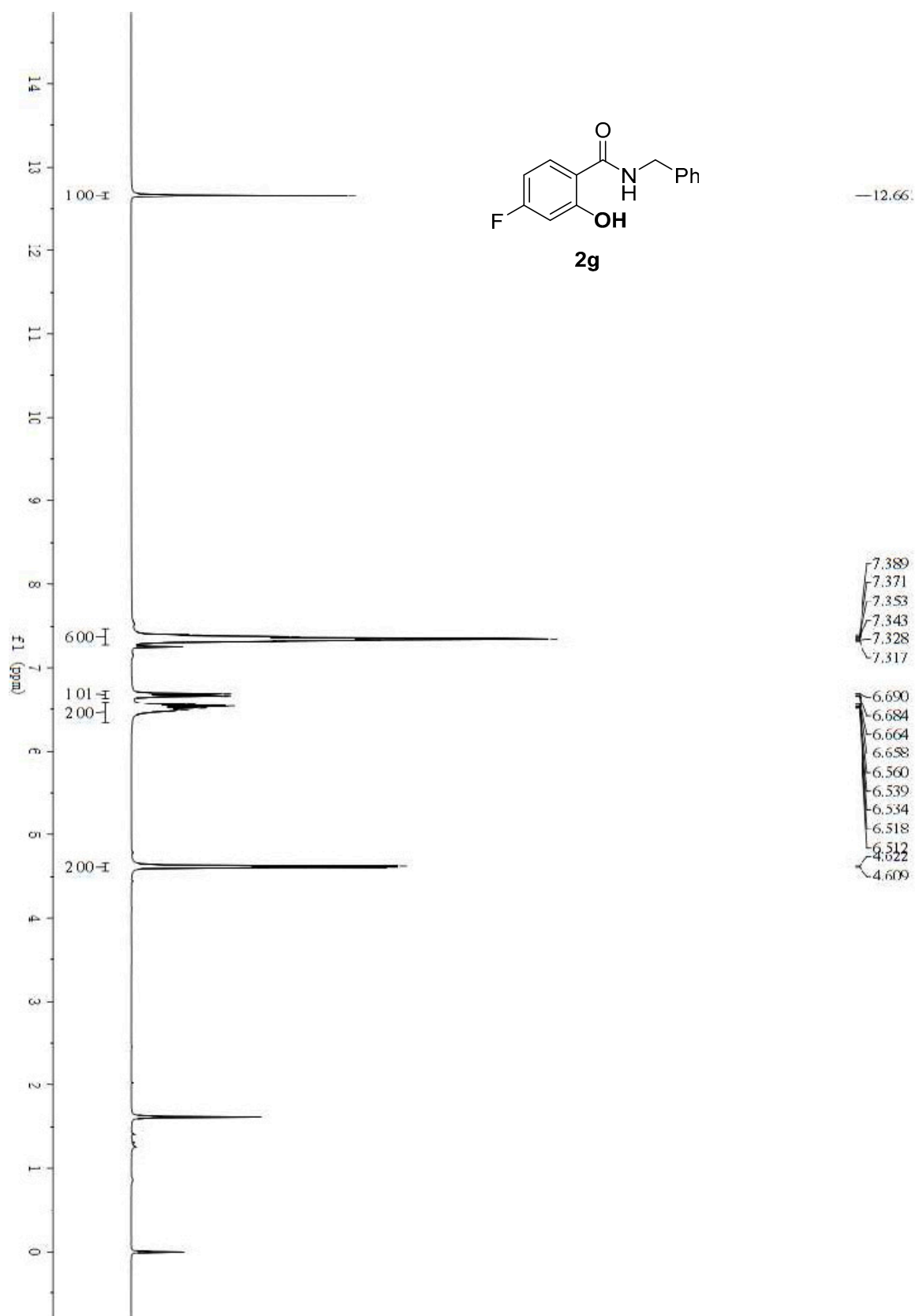
^1H NMR (400 MHz, CDCl_3) spectrum of **2f**



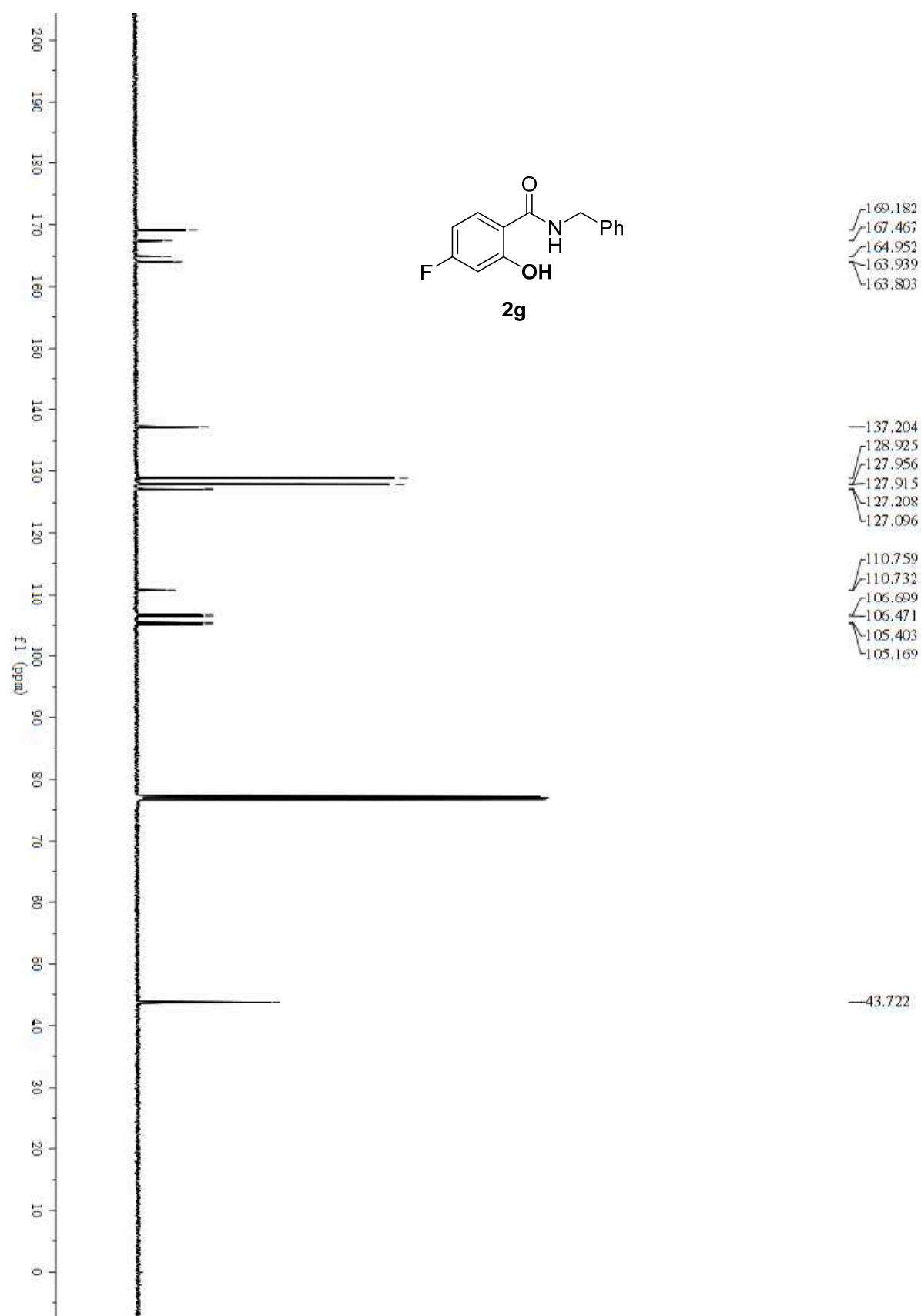
^{13}C $\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) spectrum of **2f**



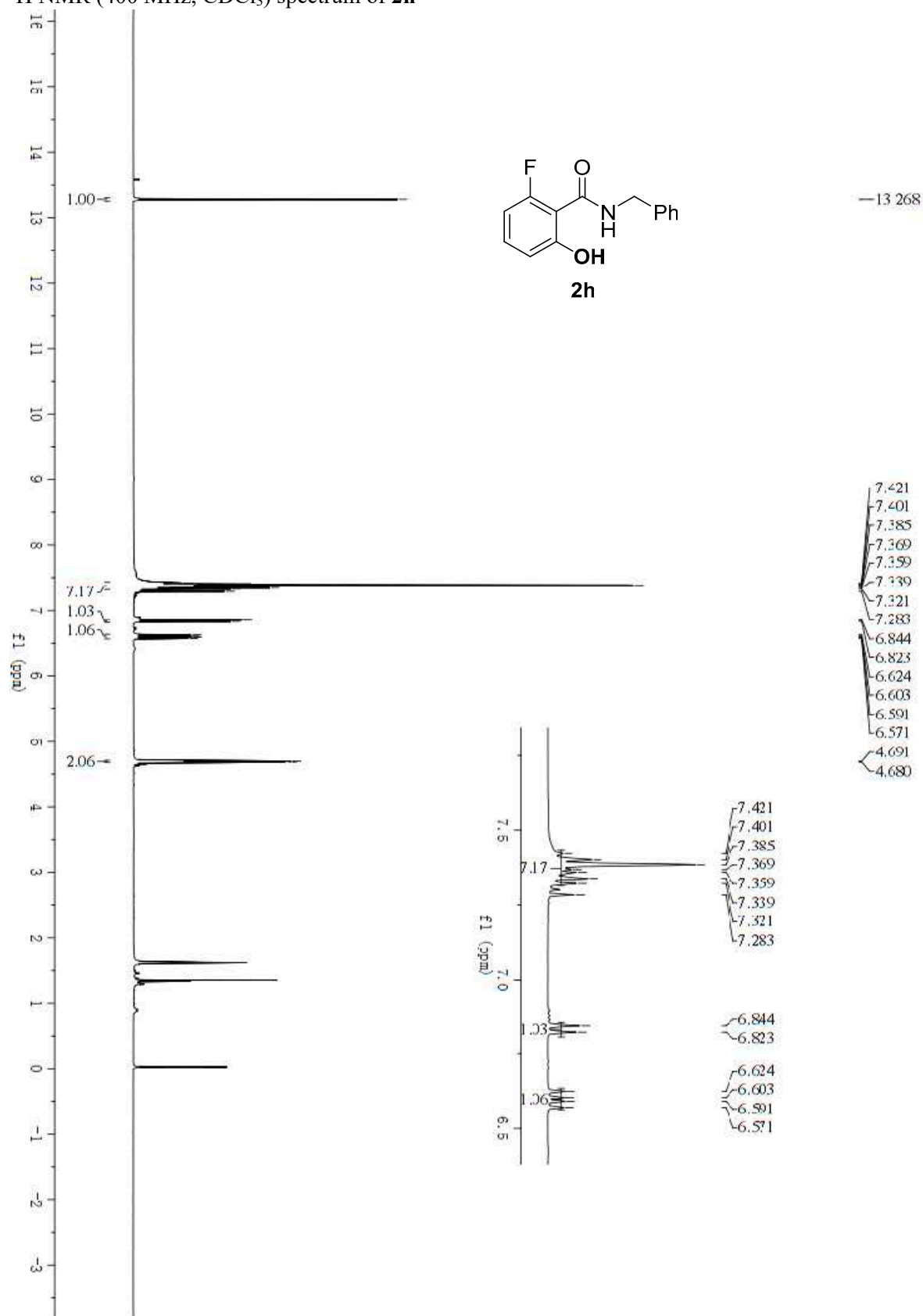
^1H NMR (400 MHz, CDCl_3) spectrum of **2g**



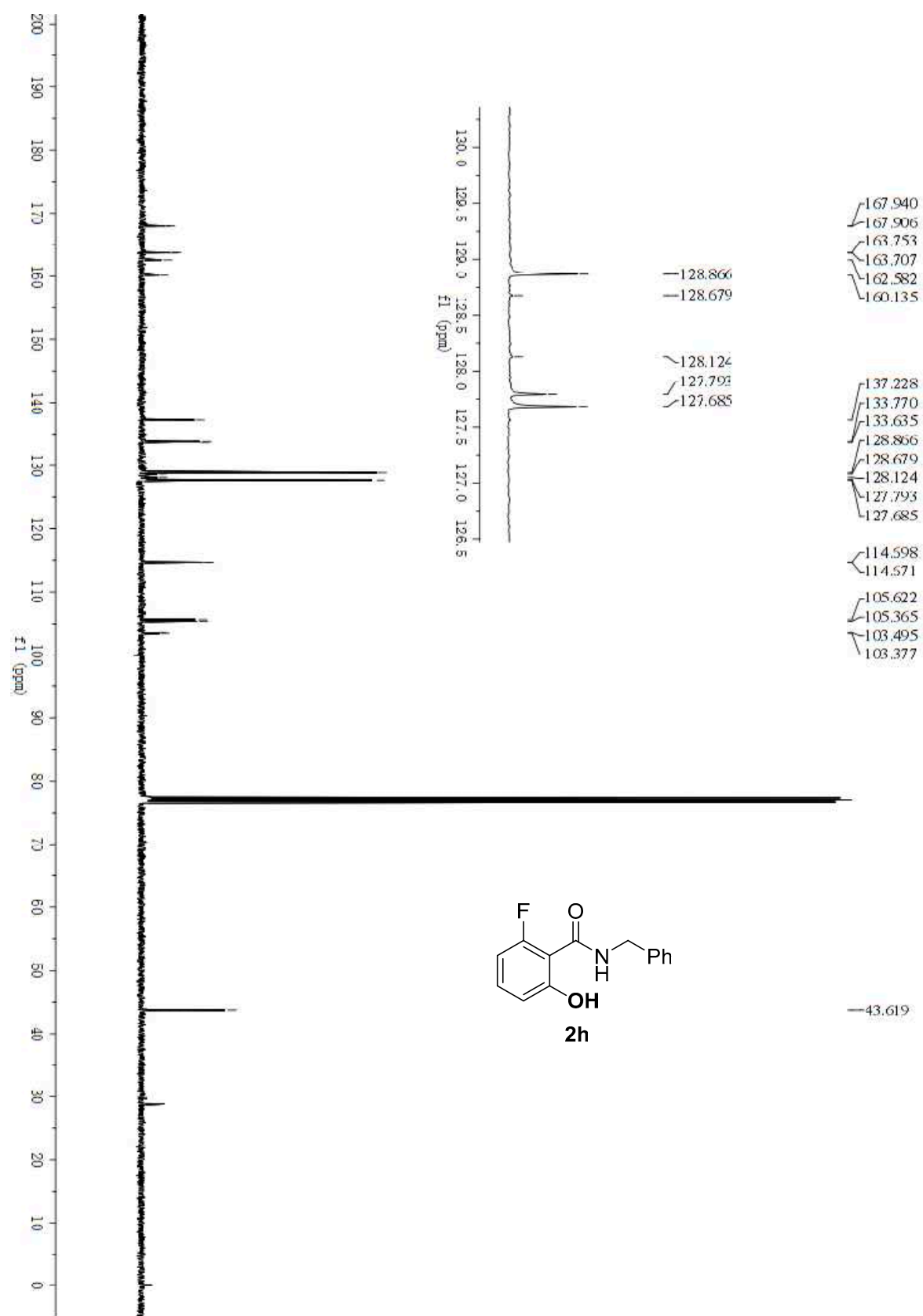
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2g**



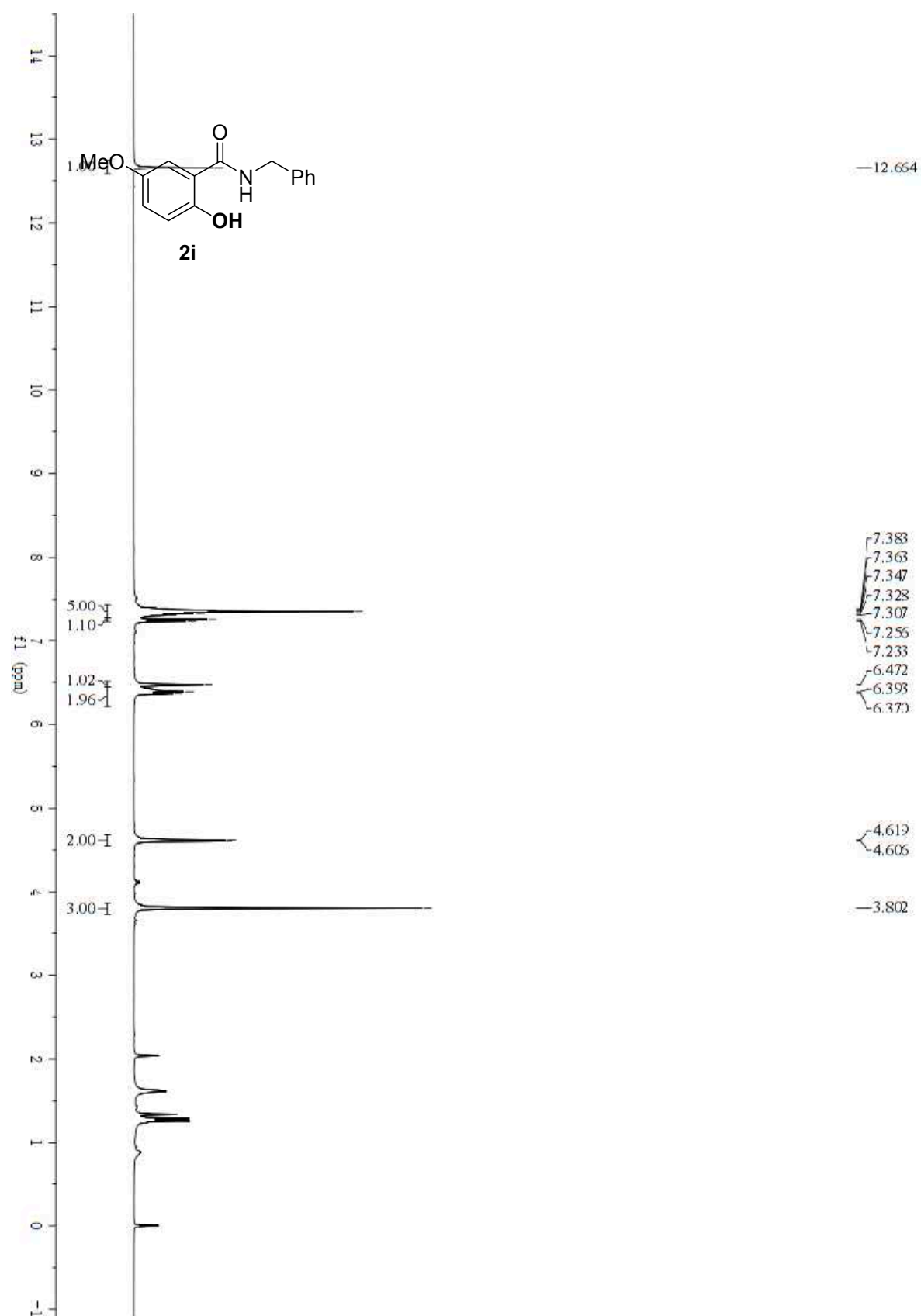
^1H NMR (400 MHz, CDCl_3) spectrum of **2h**



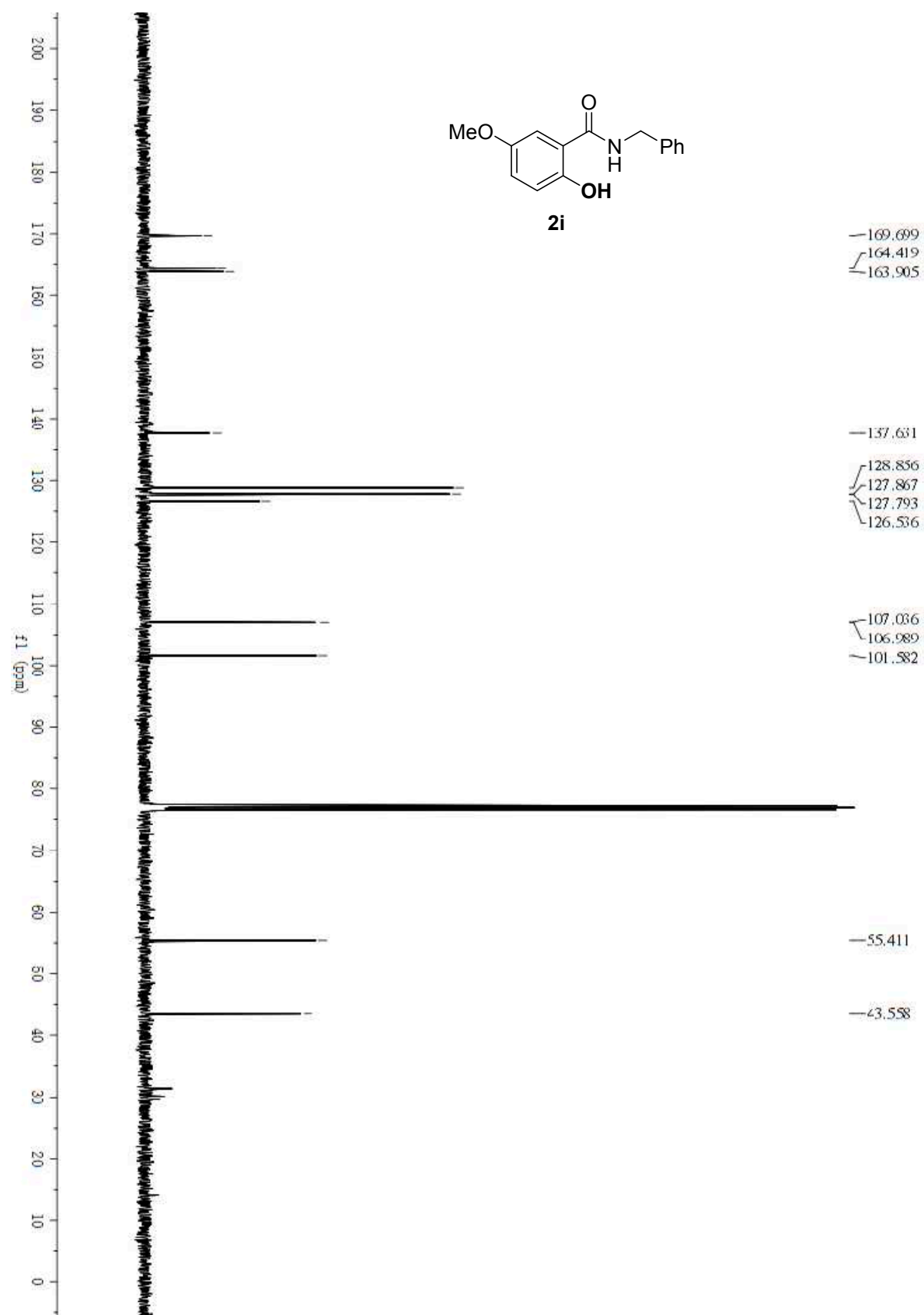
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2h**



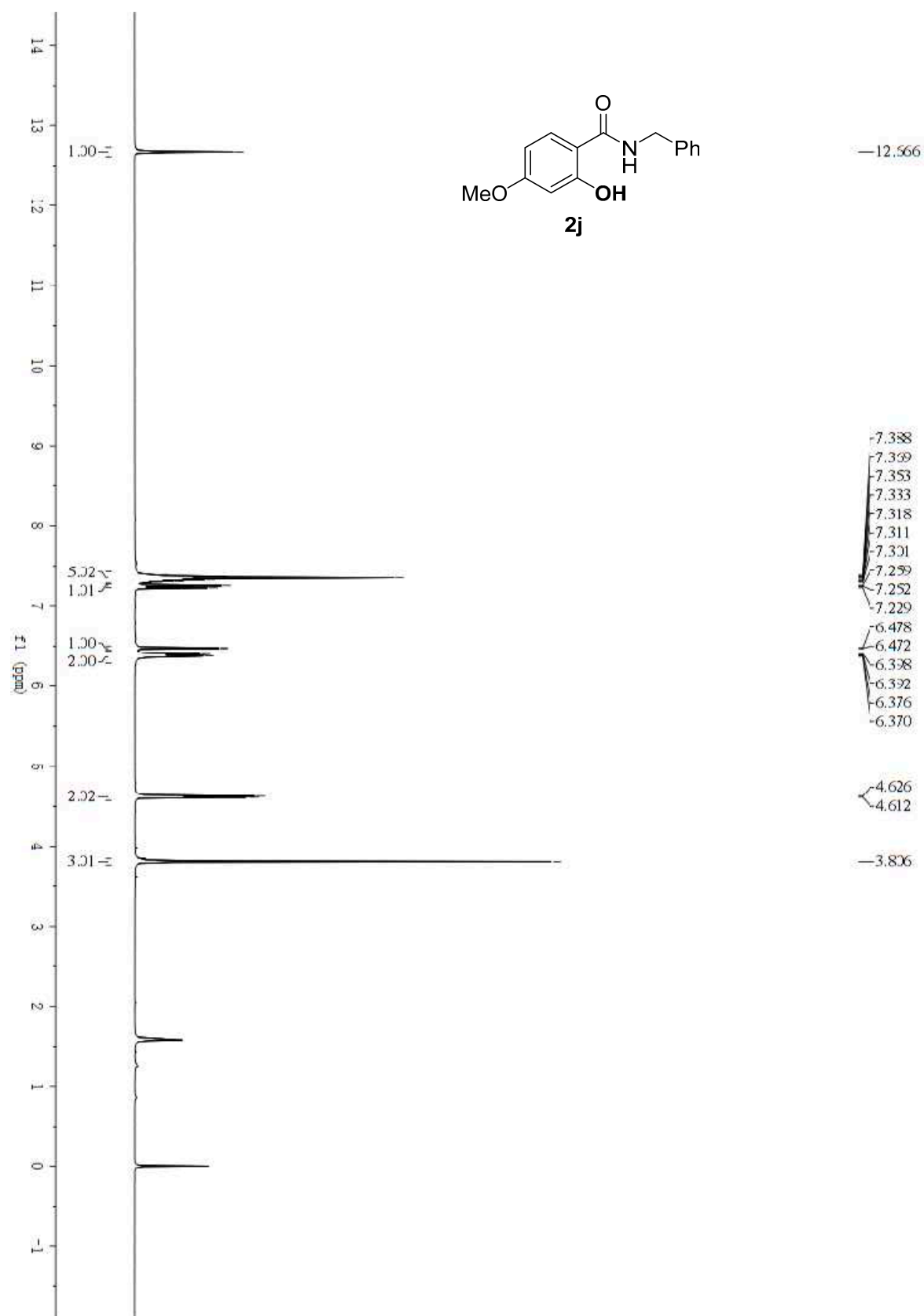
^1H NMR (400 MHz, CDCl_3) spectrum of **2i**



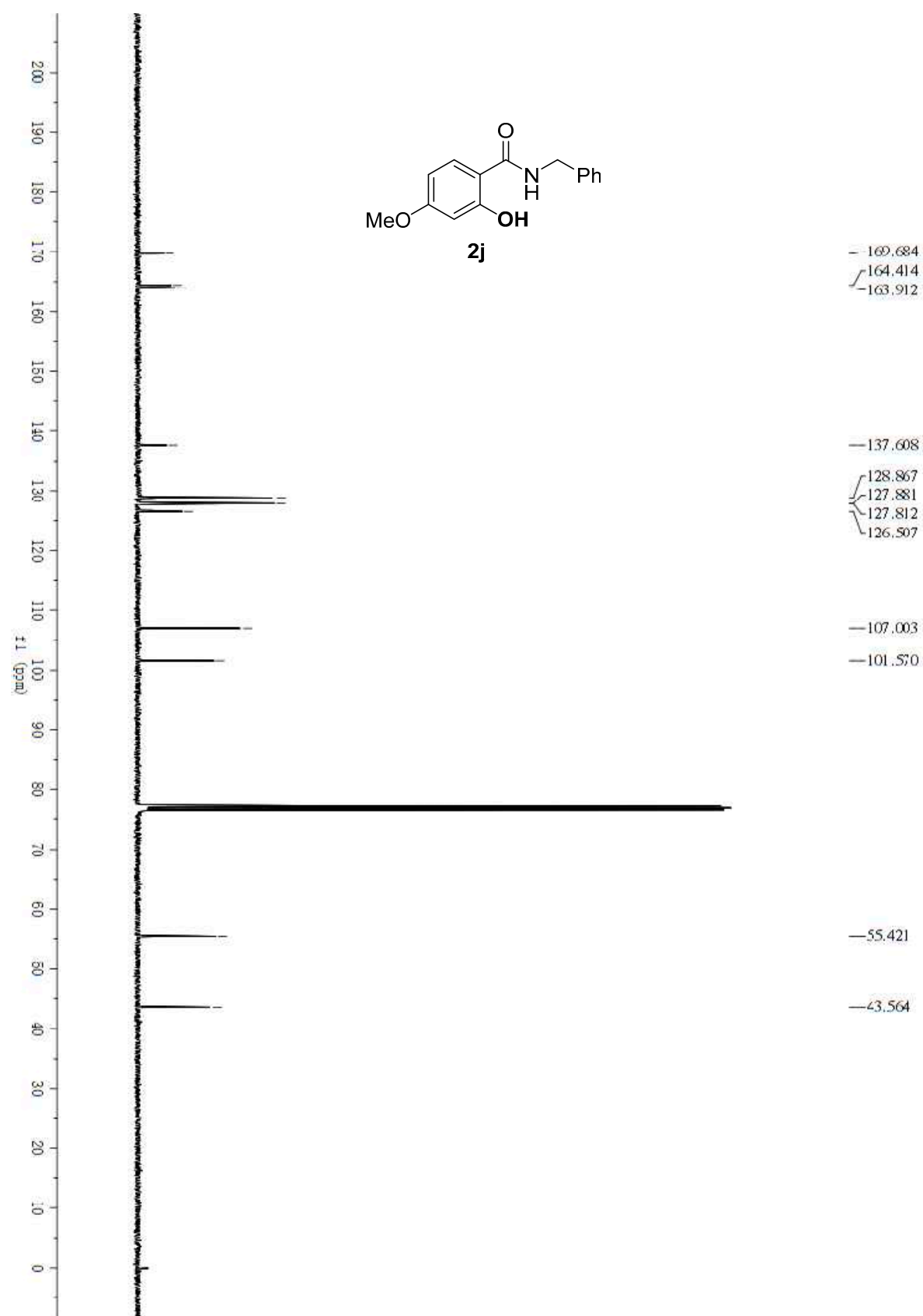
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2i**



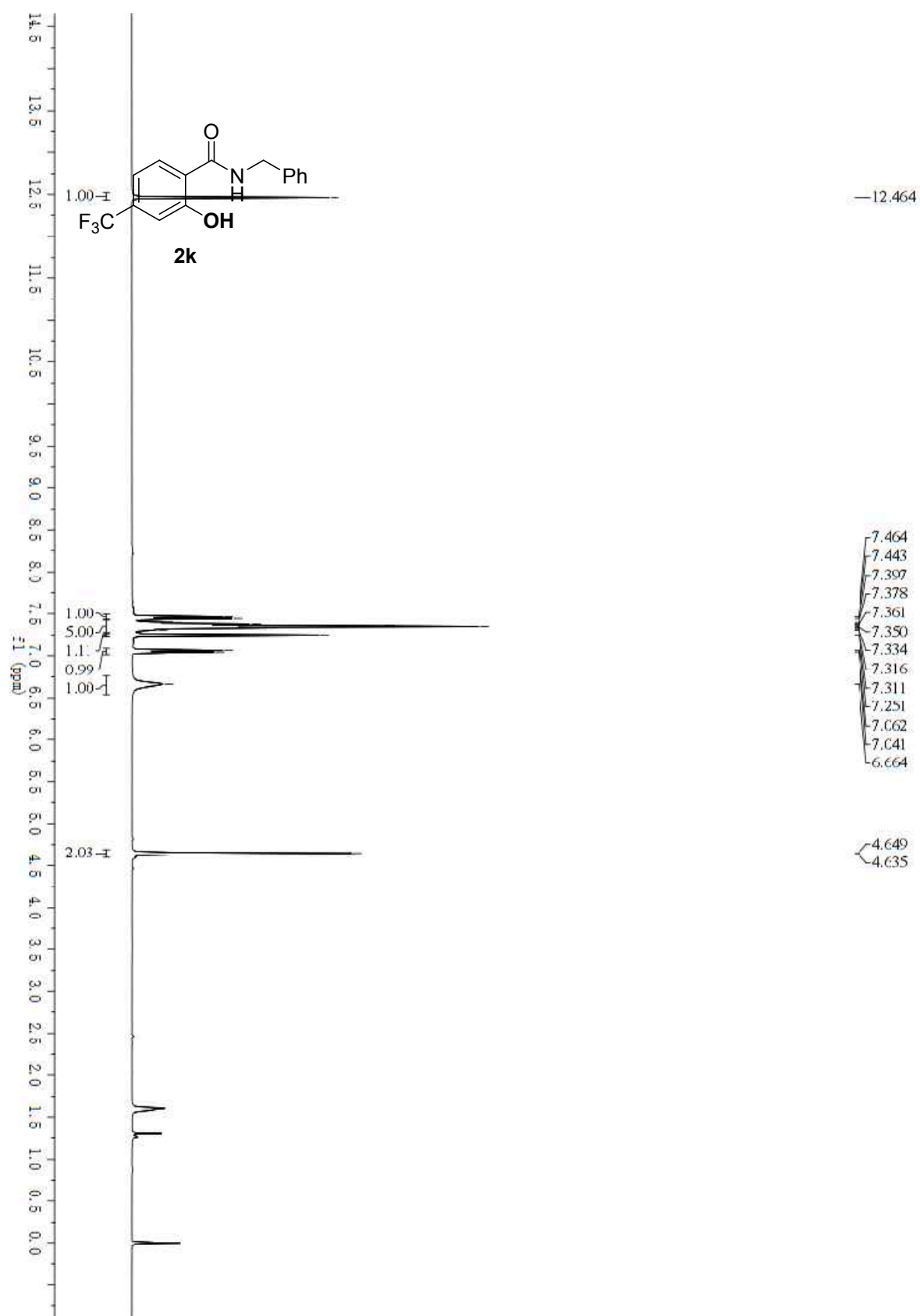
^1H NMR (400 MHz, CDCl_3) spectrum of **2j**



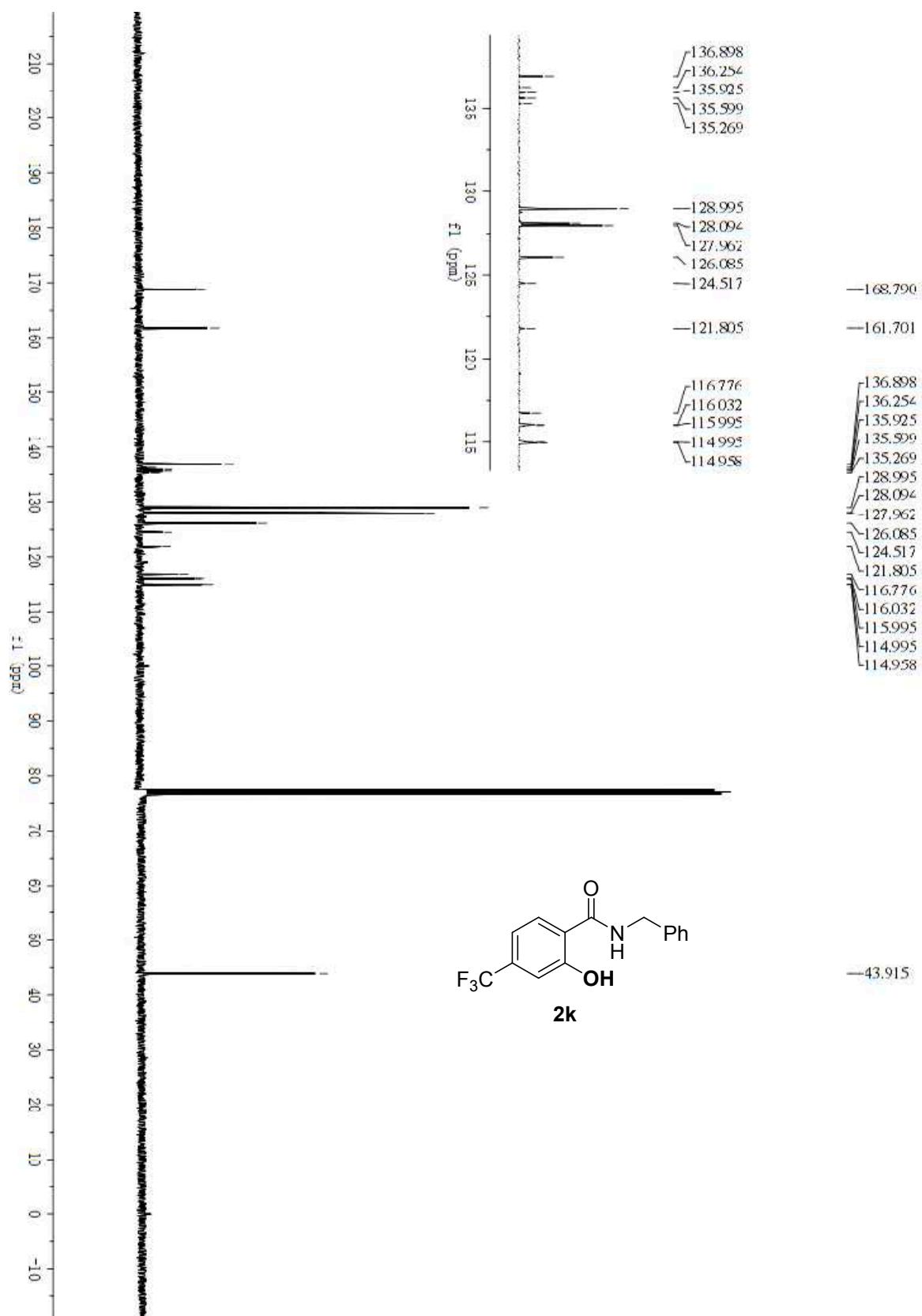
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2j**



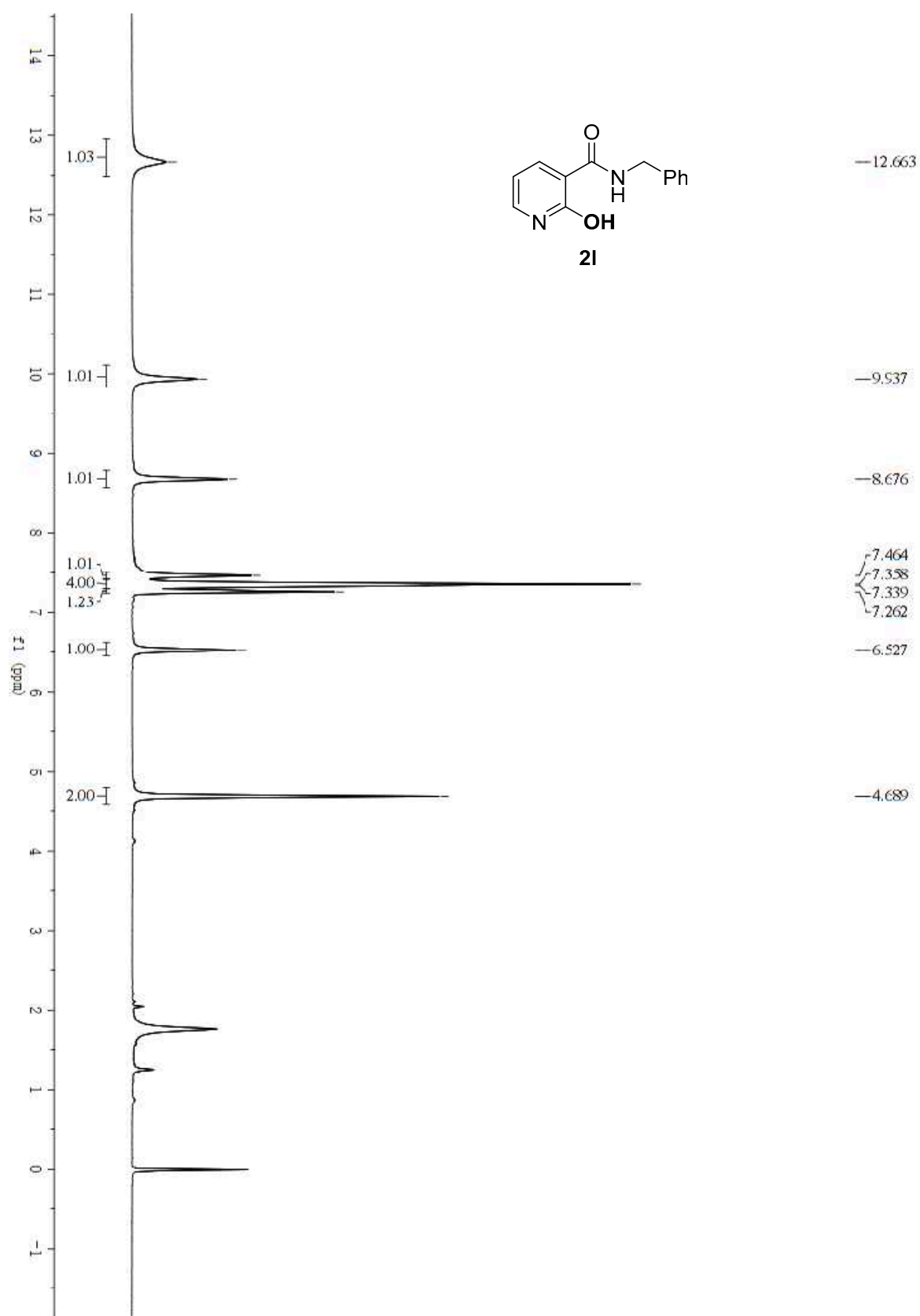
^1H NMR (400 MHz, CDCl_3) spectrum of **2k**



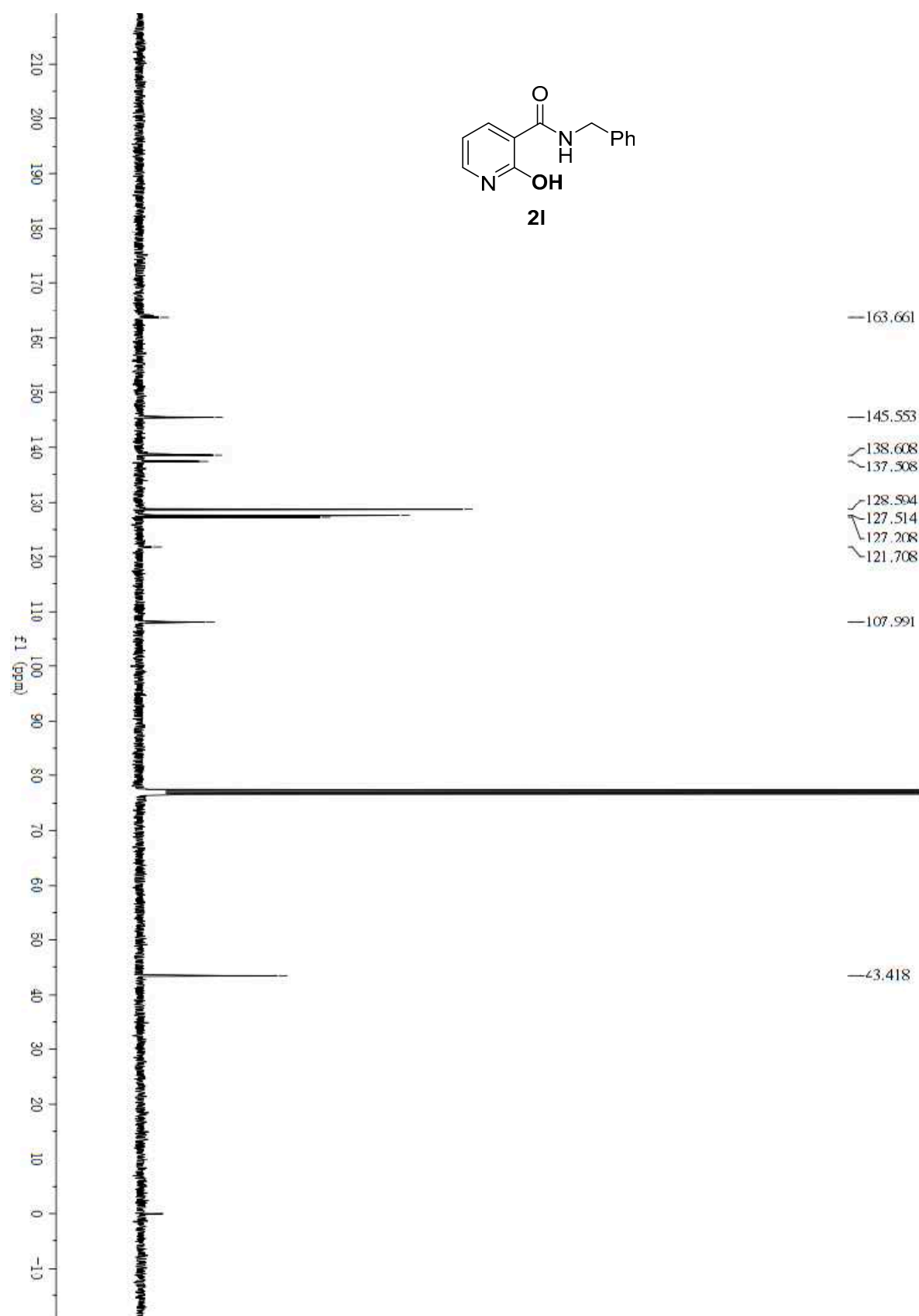
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2k**



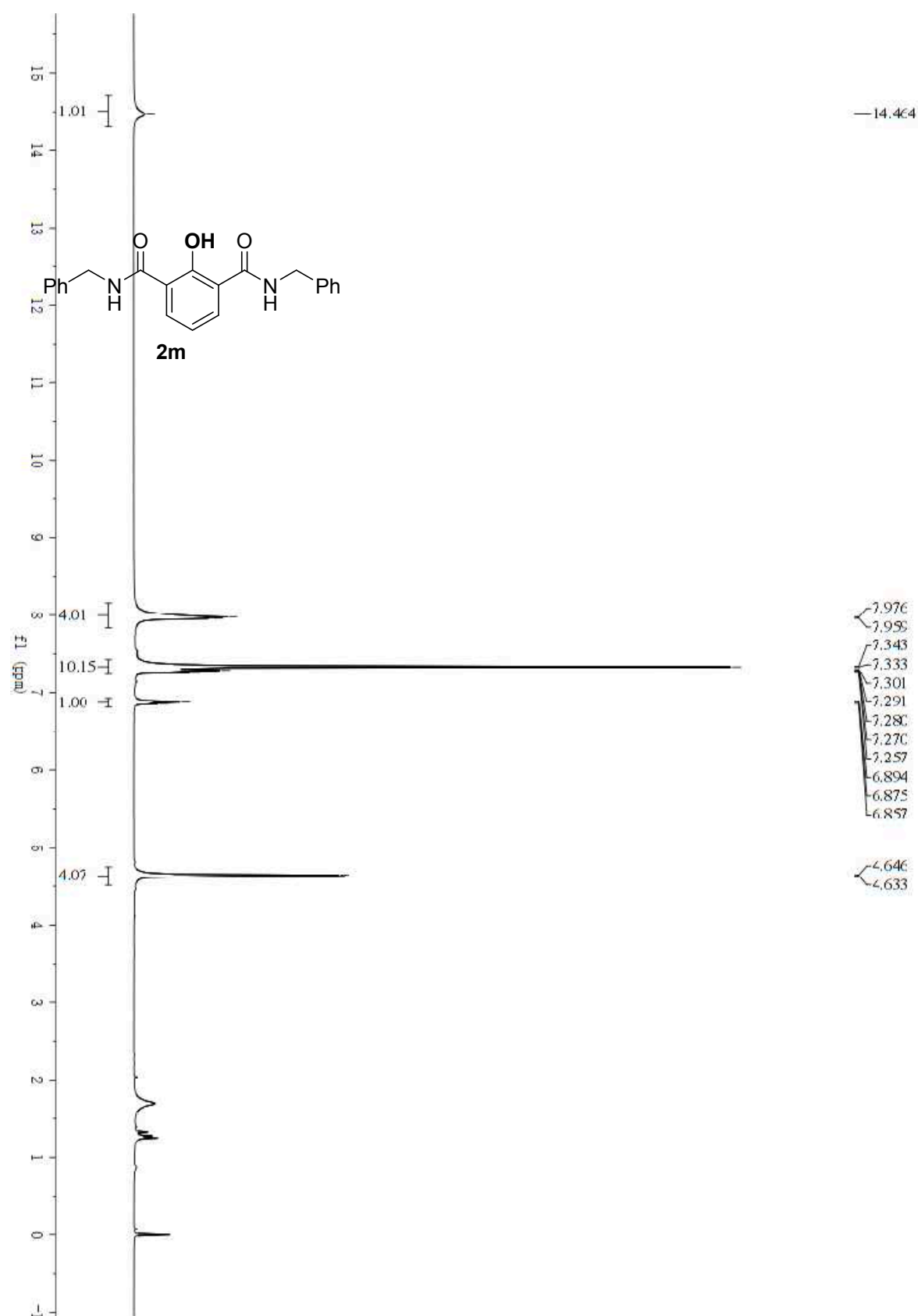
^1H NMR (400 MHz, CDCl_3) spectrum of **21**



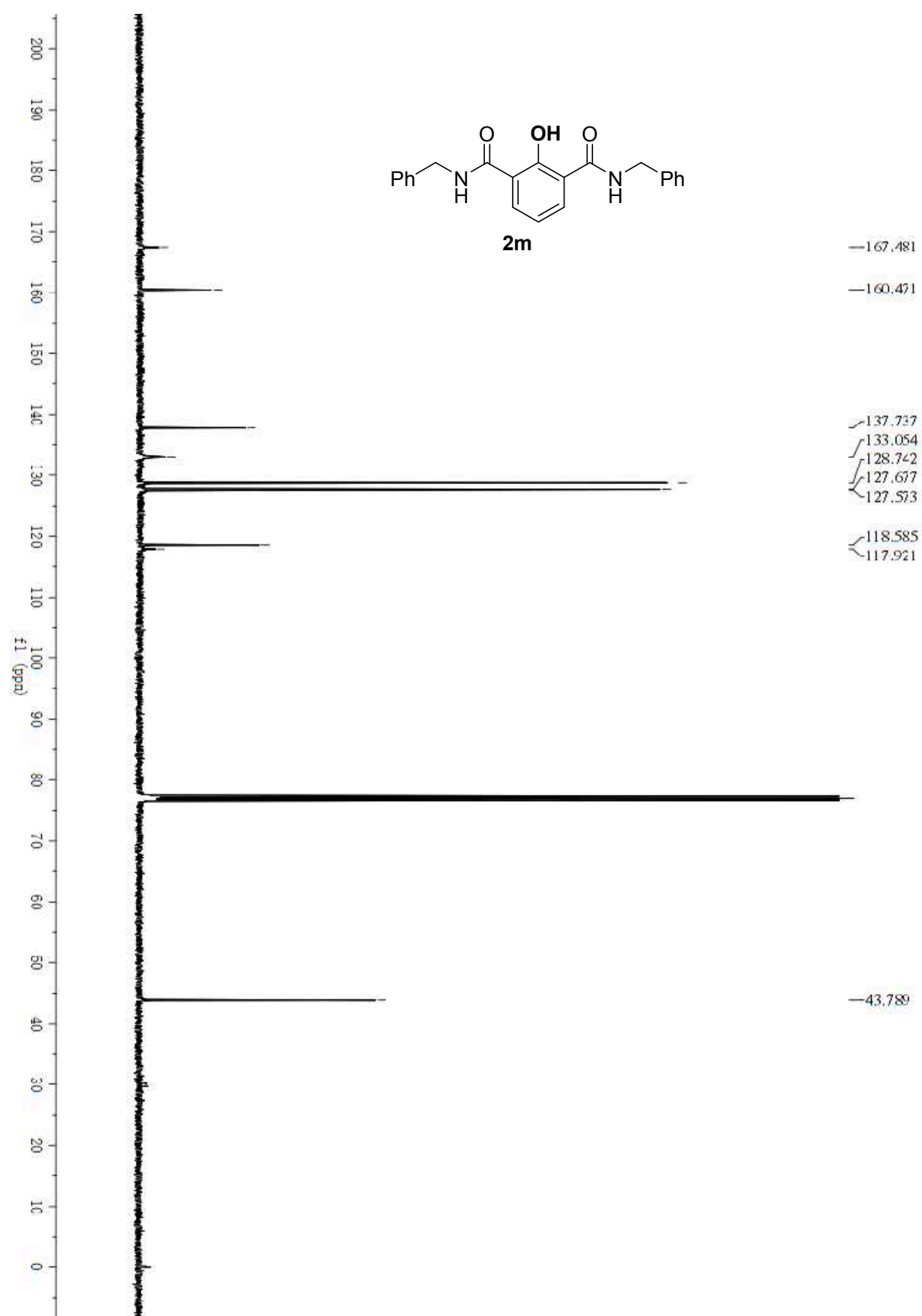
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **21**



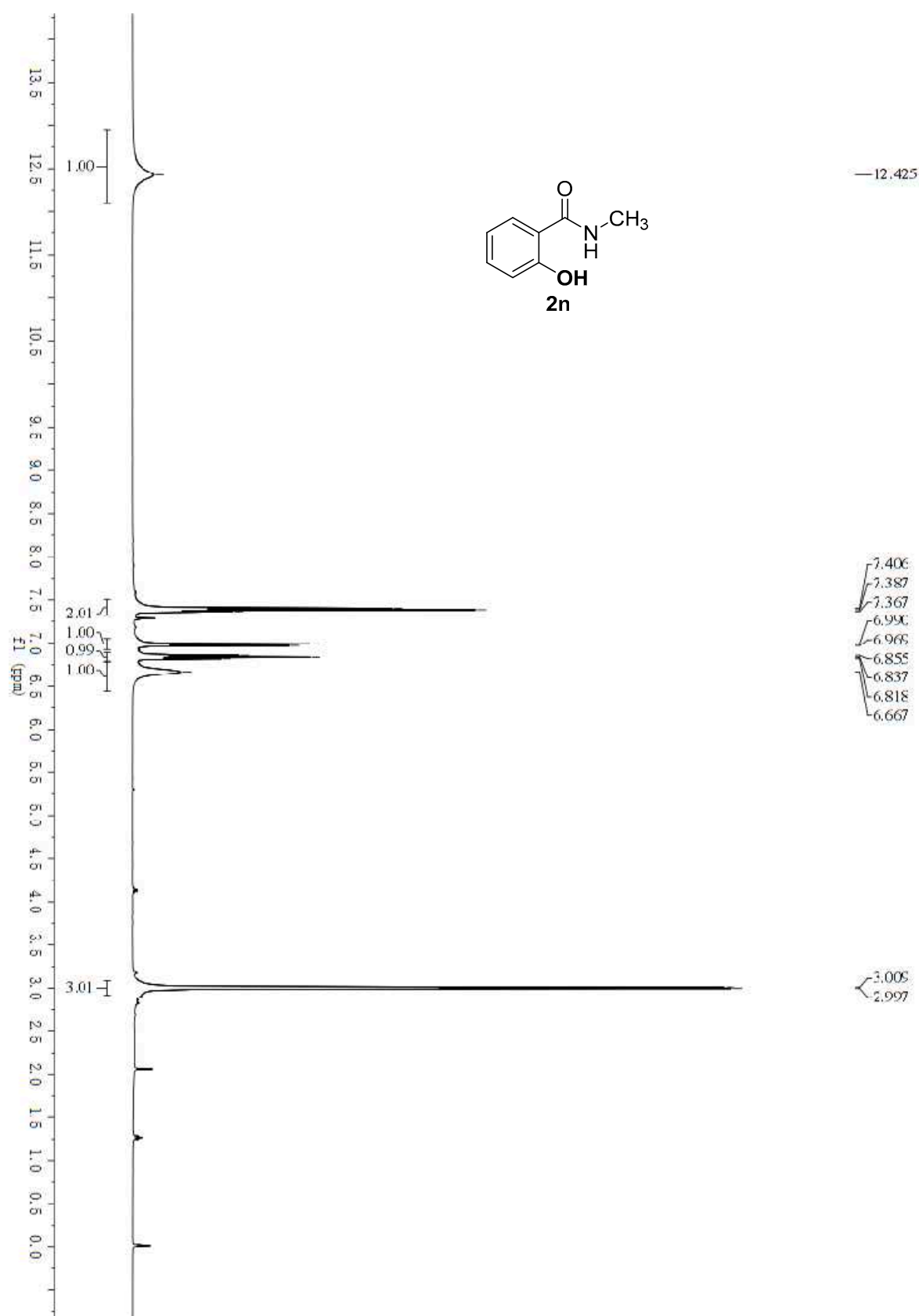
^1H NMR (400 MHz, CDCl_3) spectrum of **2m**



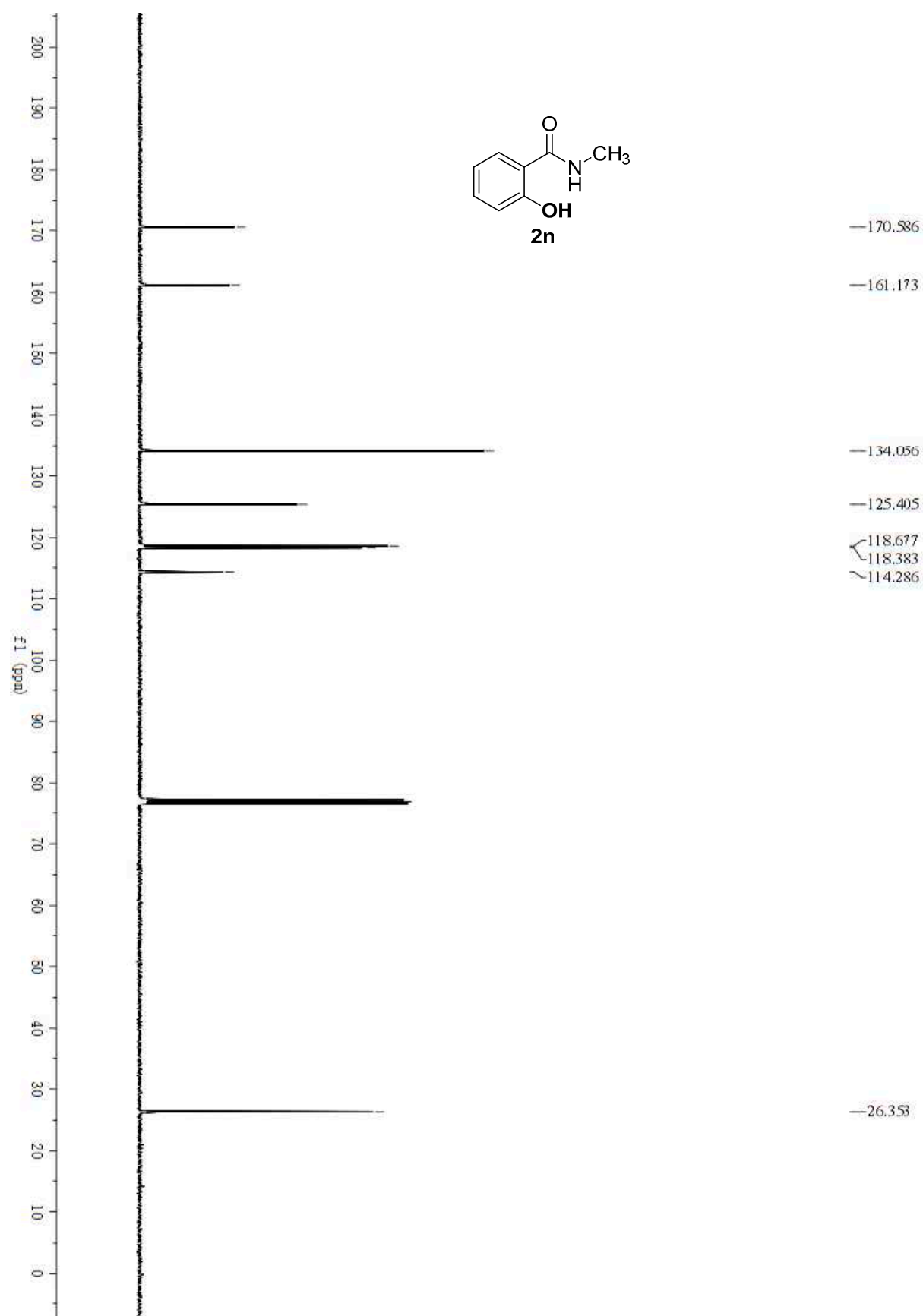
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2m**



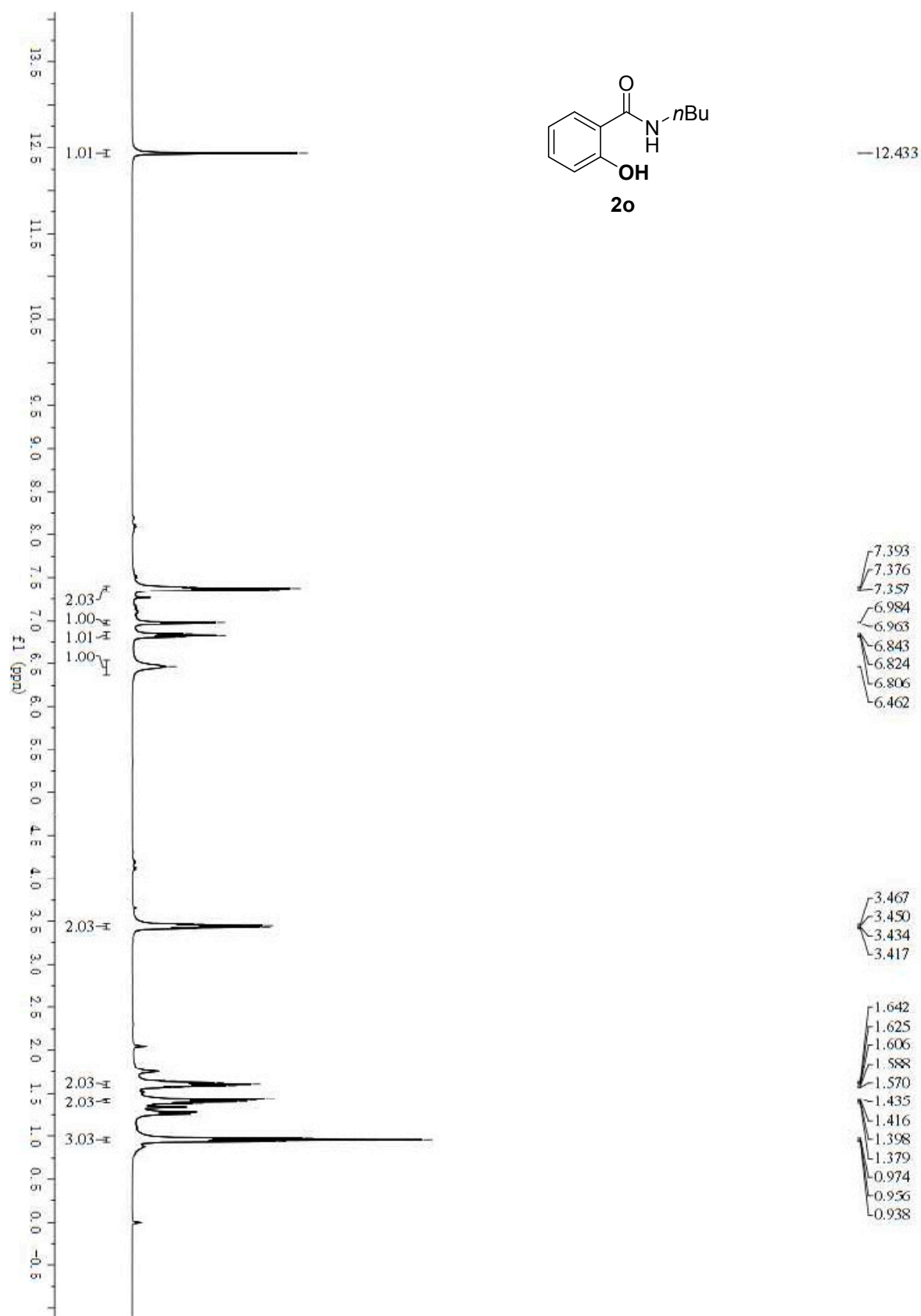
^1H NMR (400 MHz, CDCl_3) spectrum of **2n**



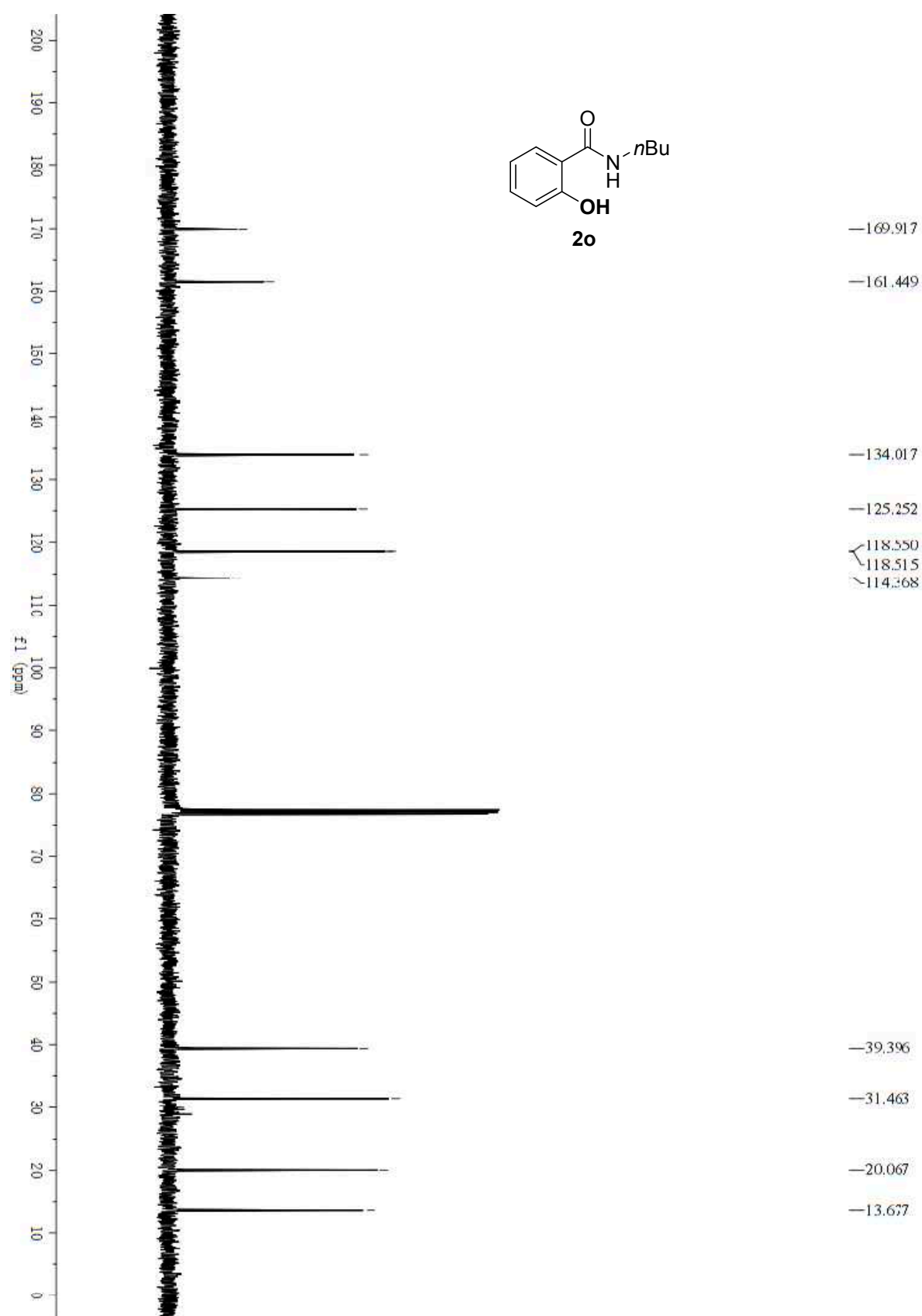
^{13}C $\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) spectrum of **2n**



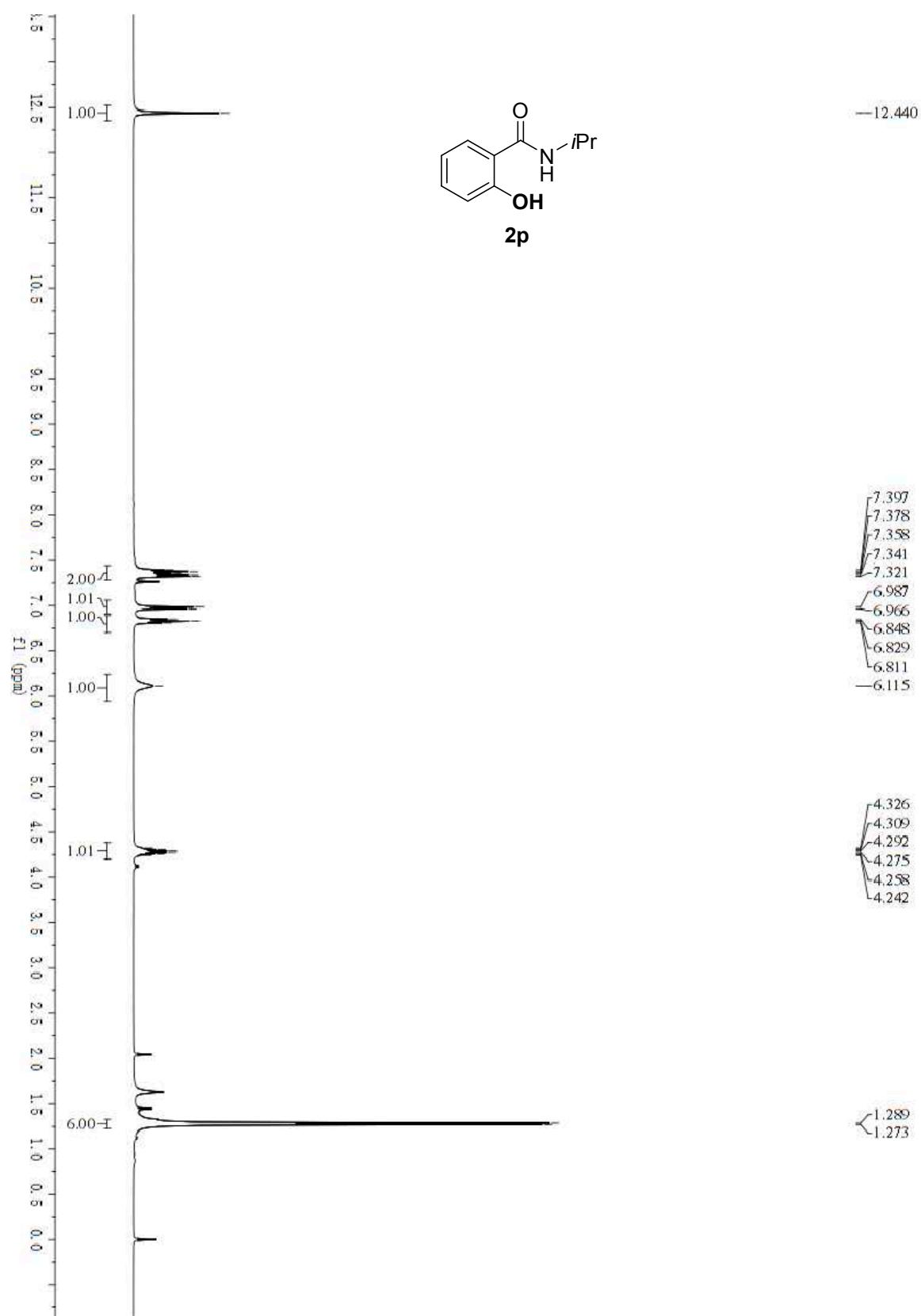
^1H NMR (400 MHz, CDCl_3) spectrum of **2o**



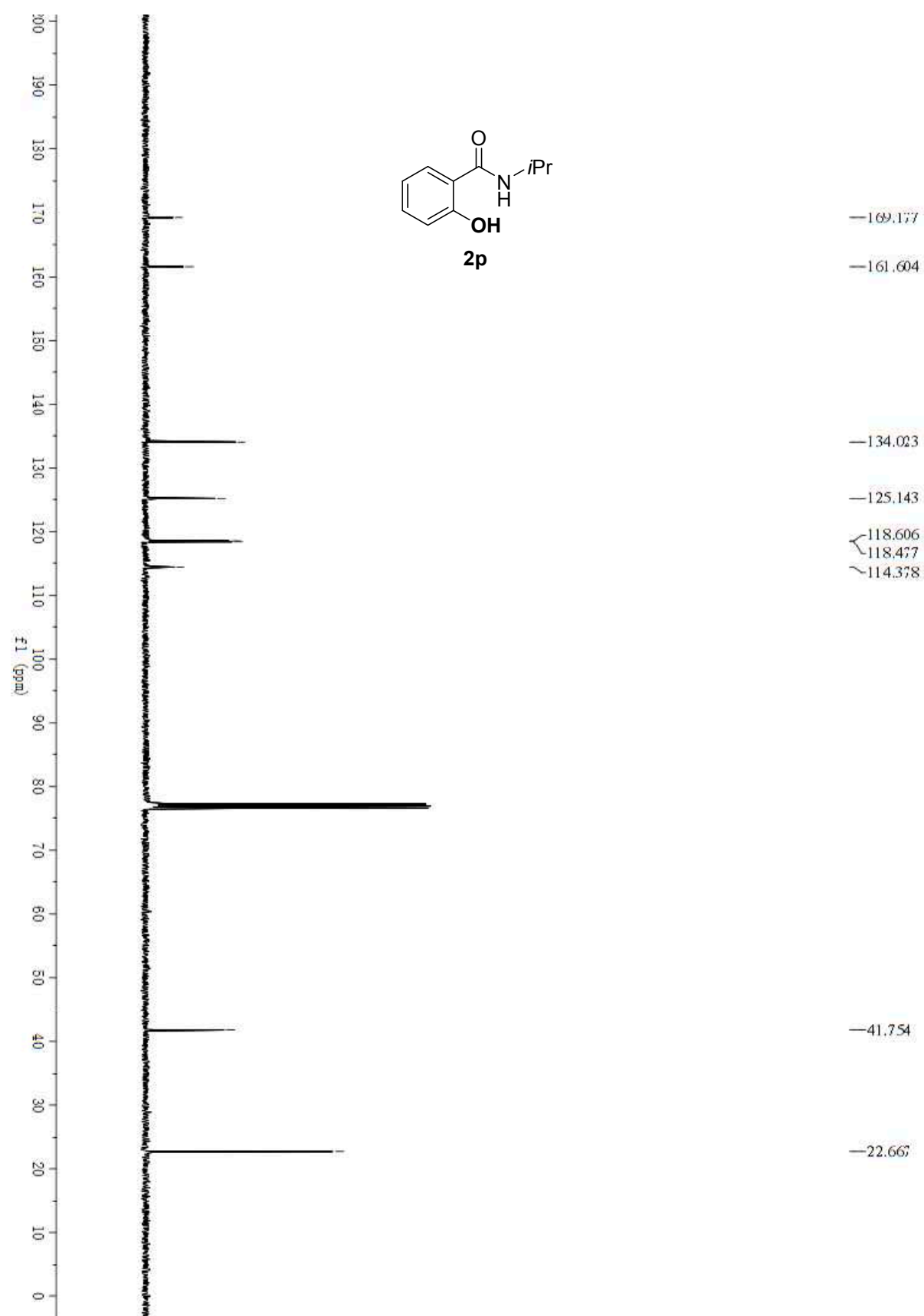
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2o**



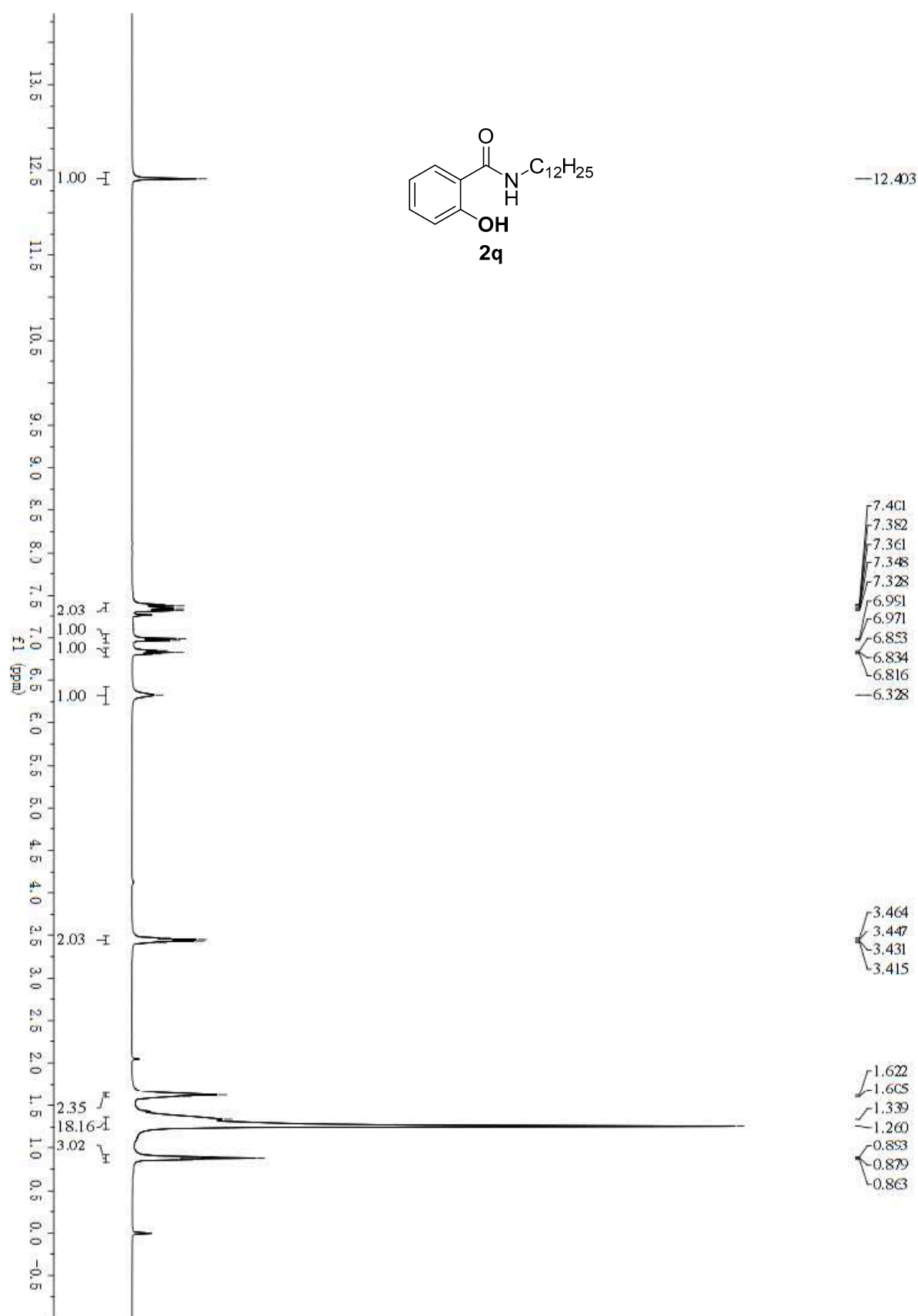
^1H NMR (400 MHz, CDCl_3) spectrum of **2p**



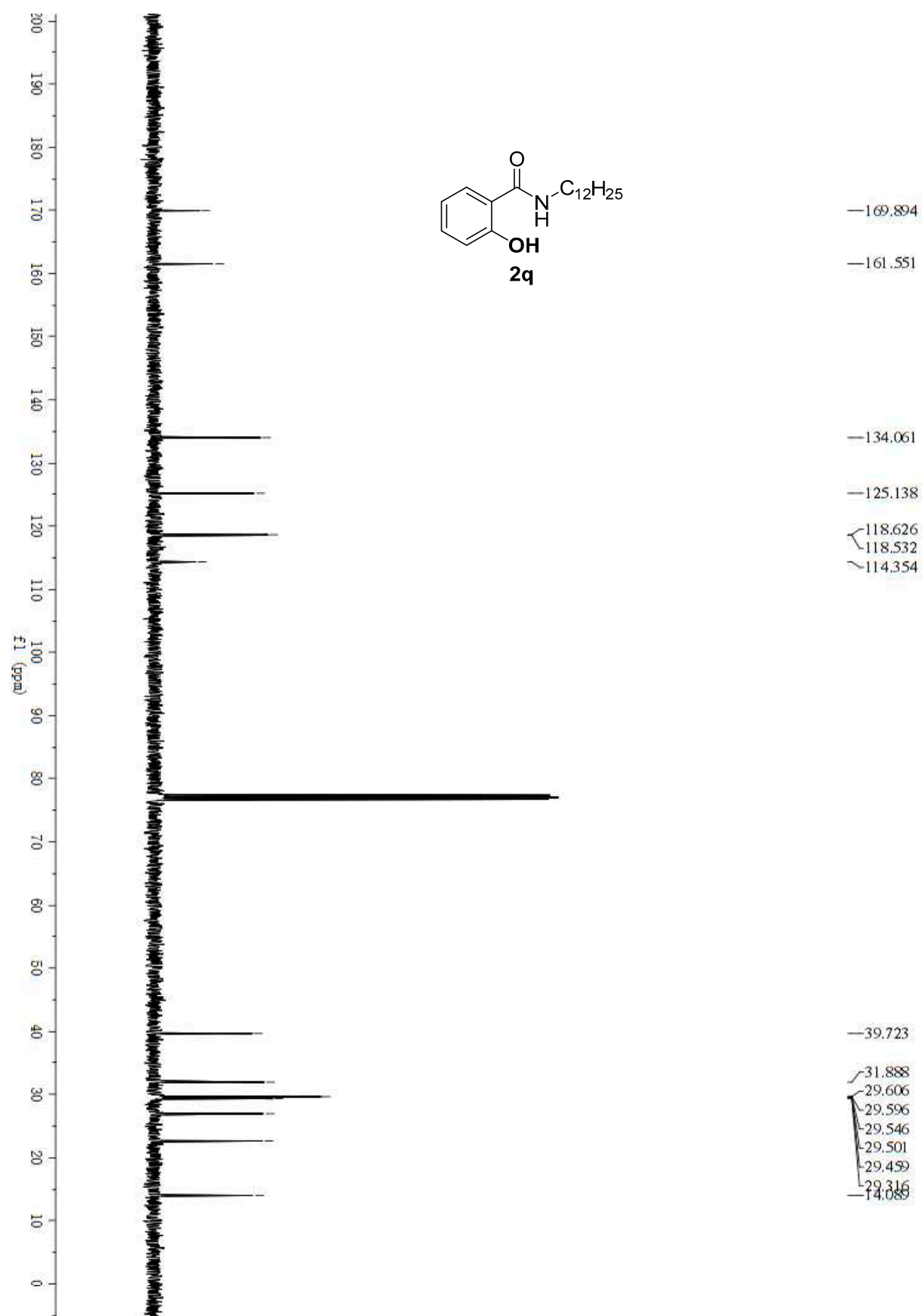
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2p**



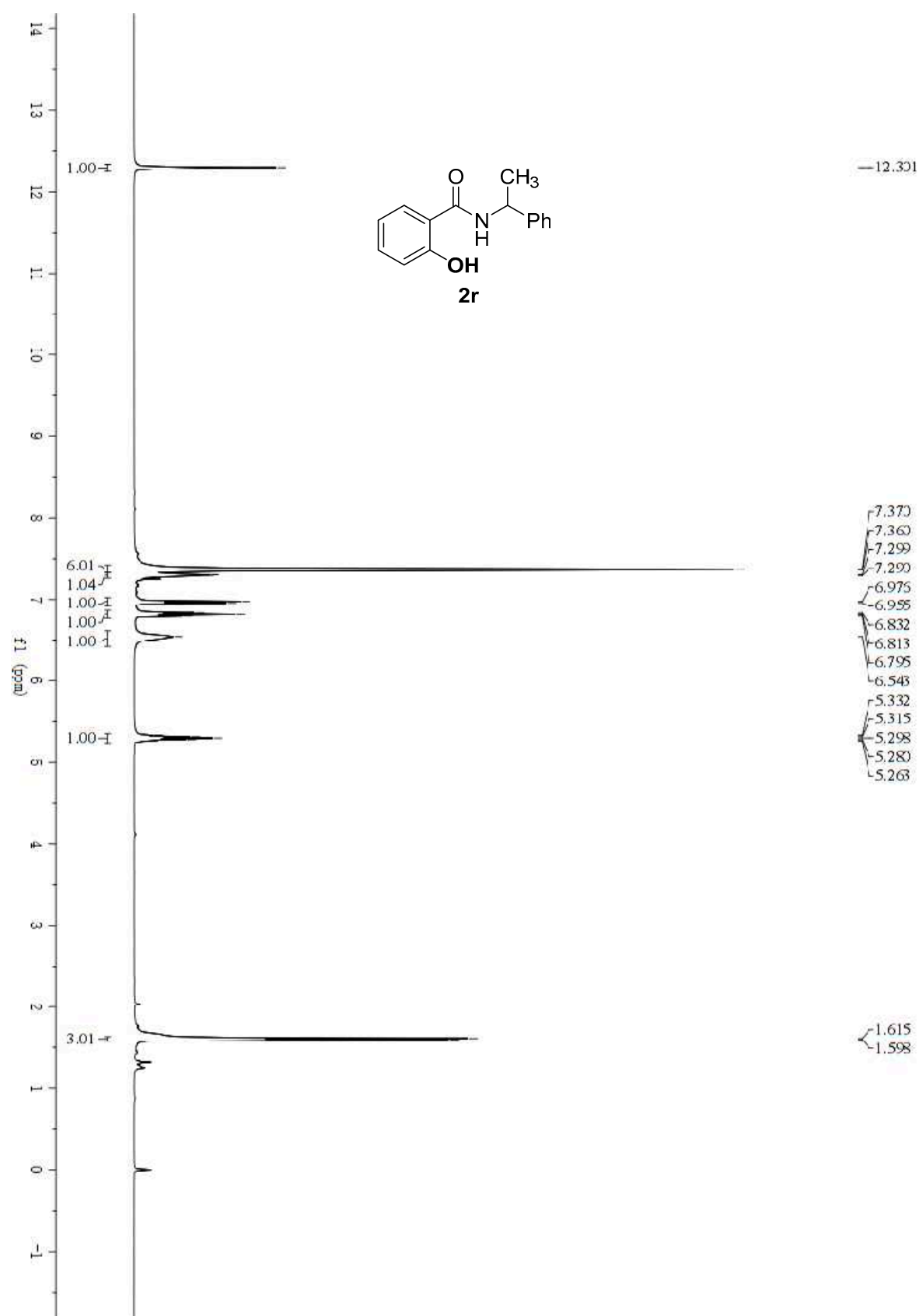
^1H NMR (400 MHz, CDCl_3) spectrum of **2q**



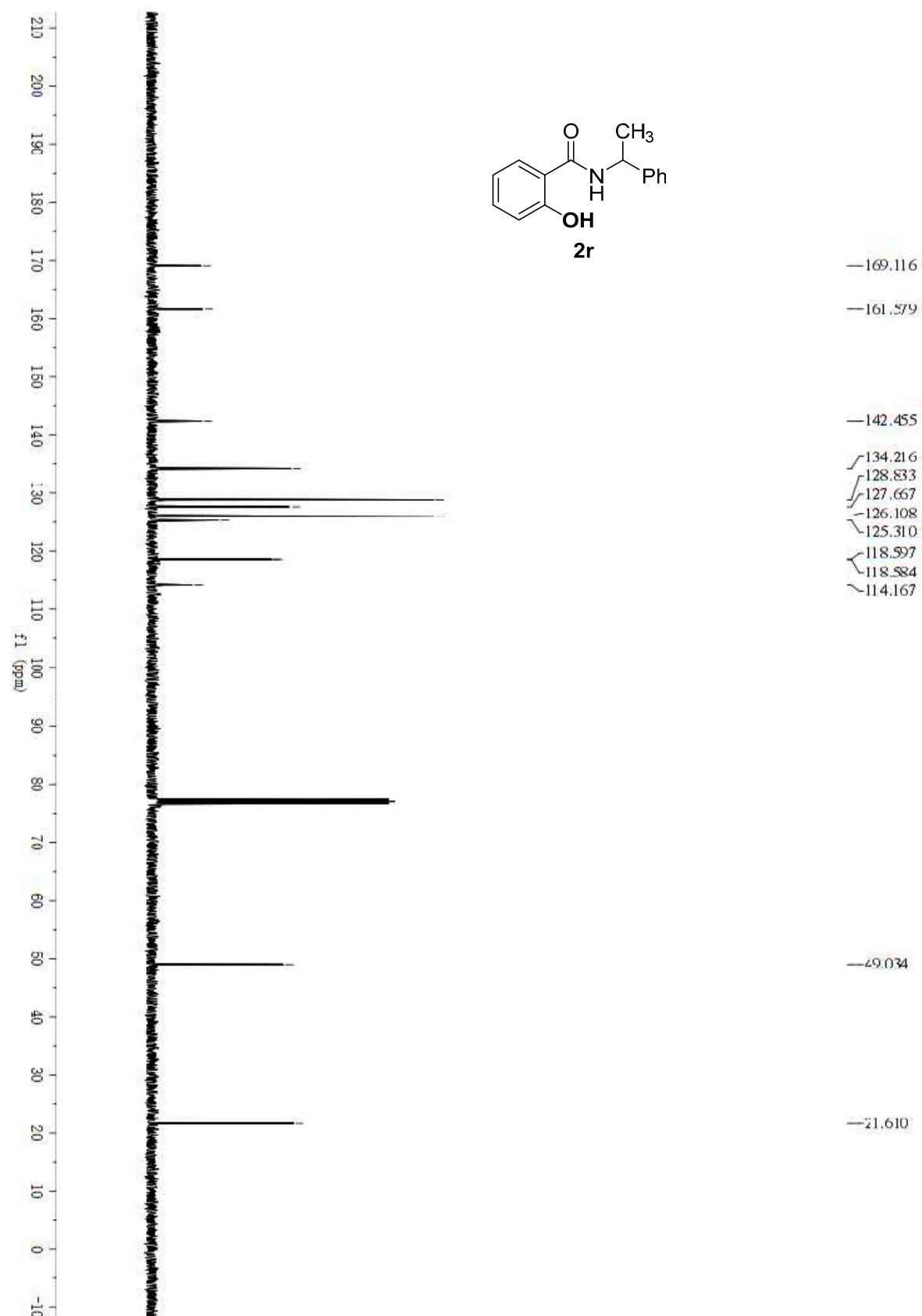
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2q**



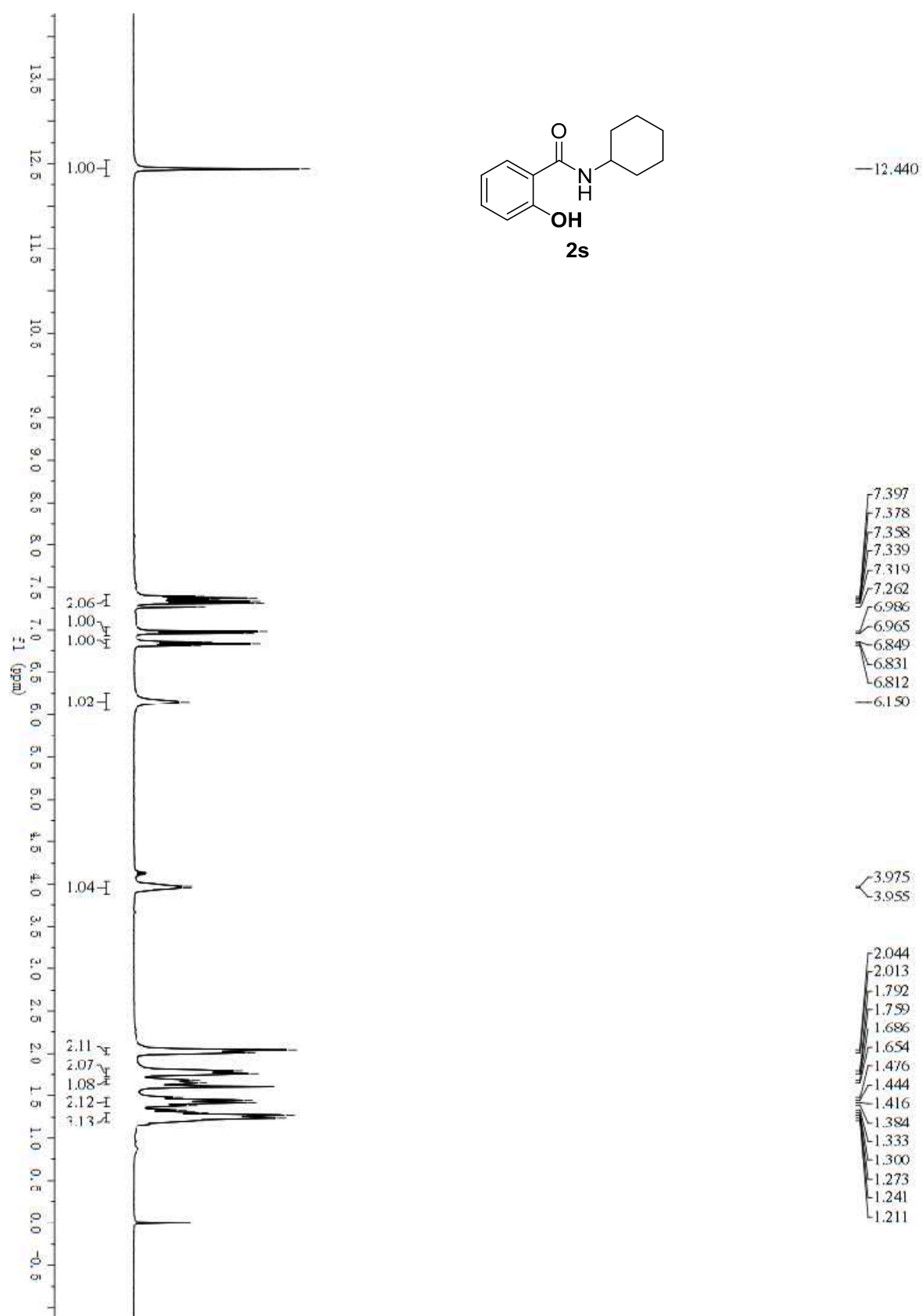
^1H NMR (400 MHz, CDCl_3) spectrum of **2r**



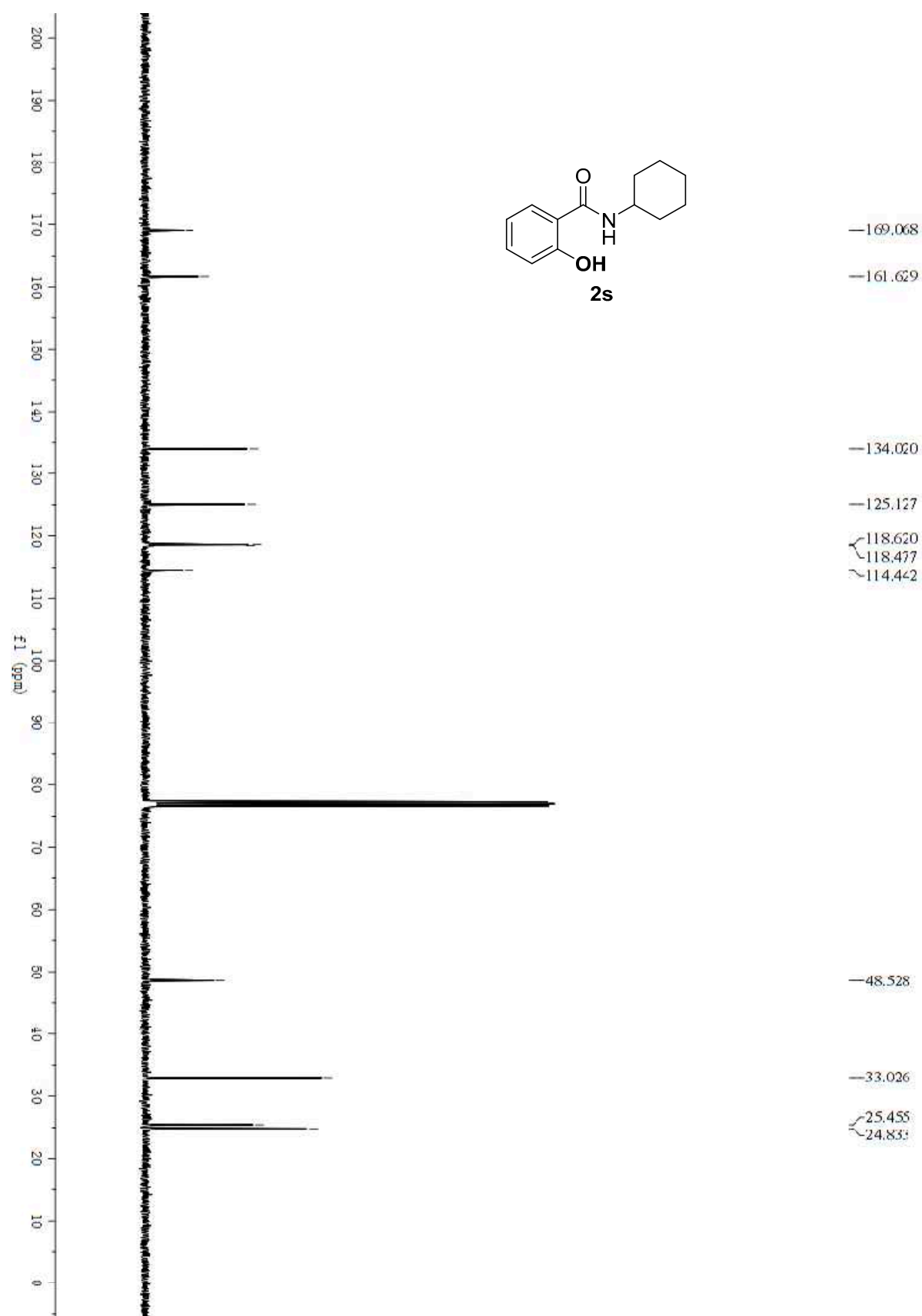
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2r**



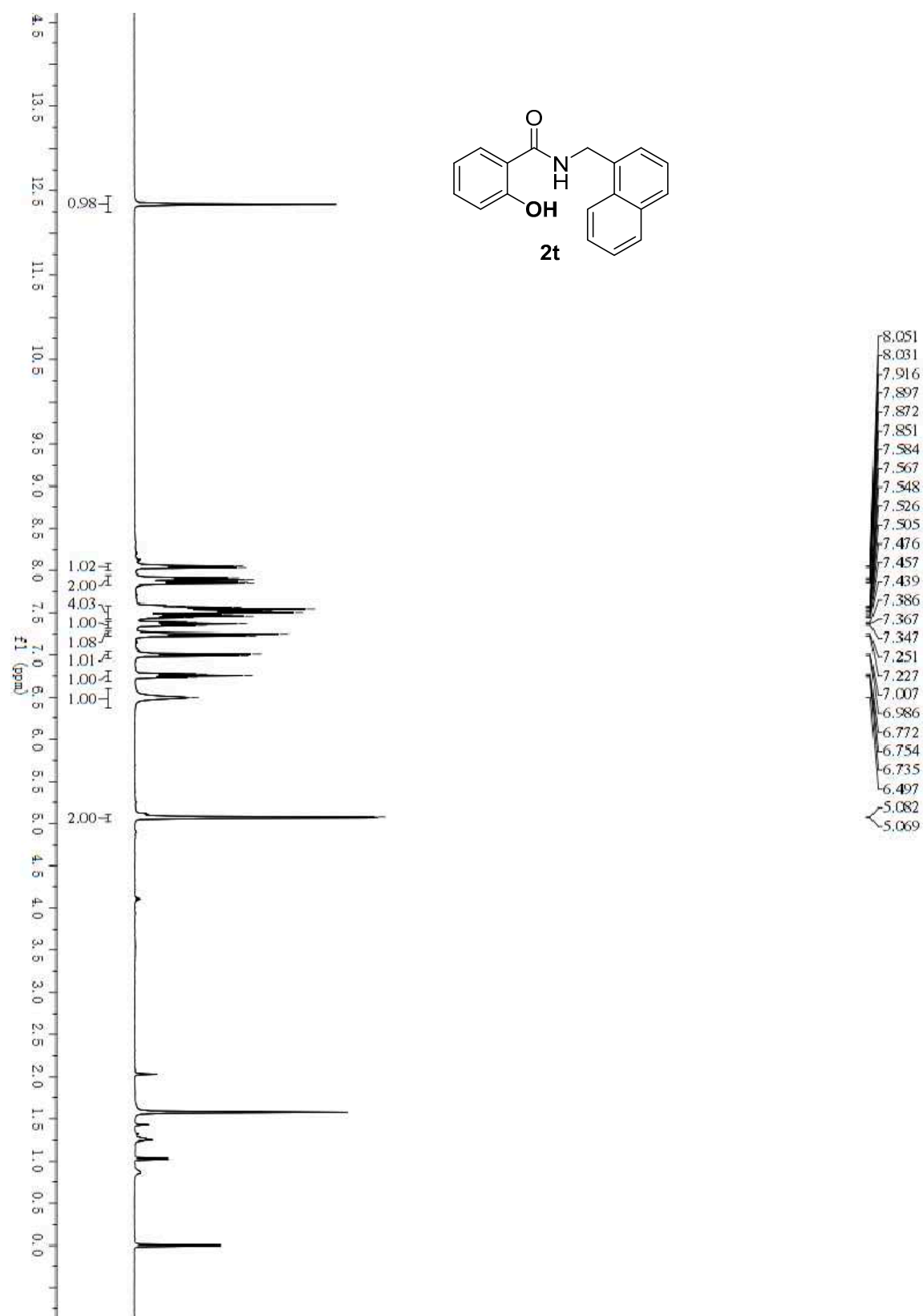
^1H NMR (400 MHz, CDCl_3) spectrum of **2s**



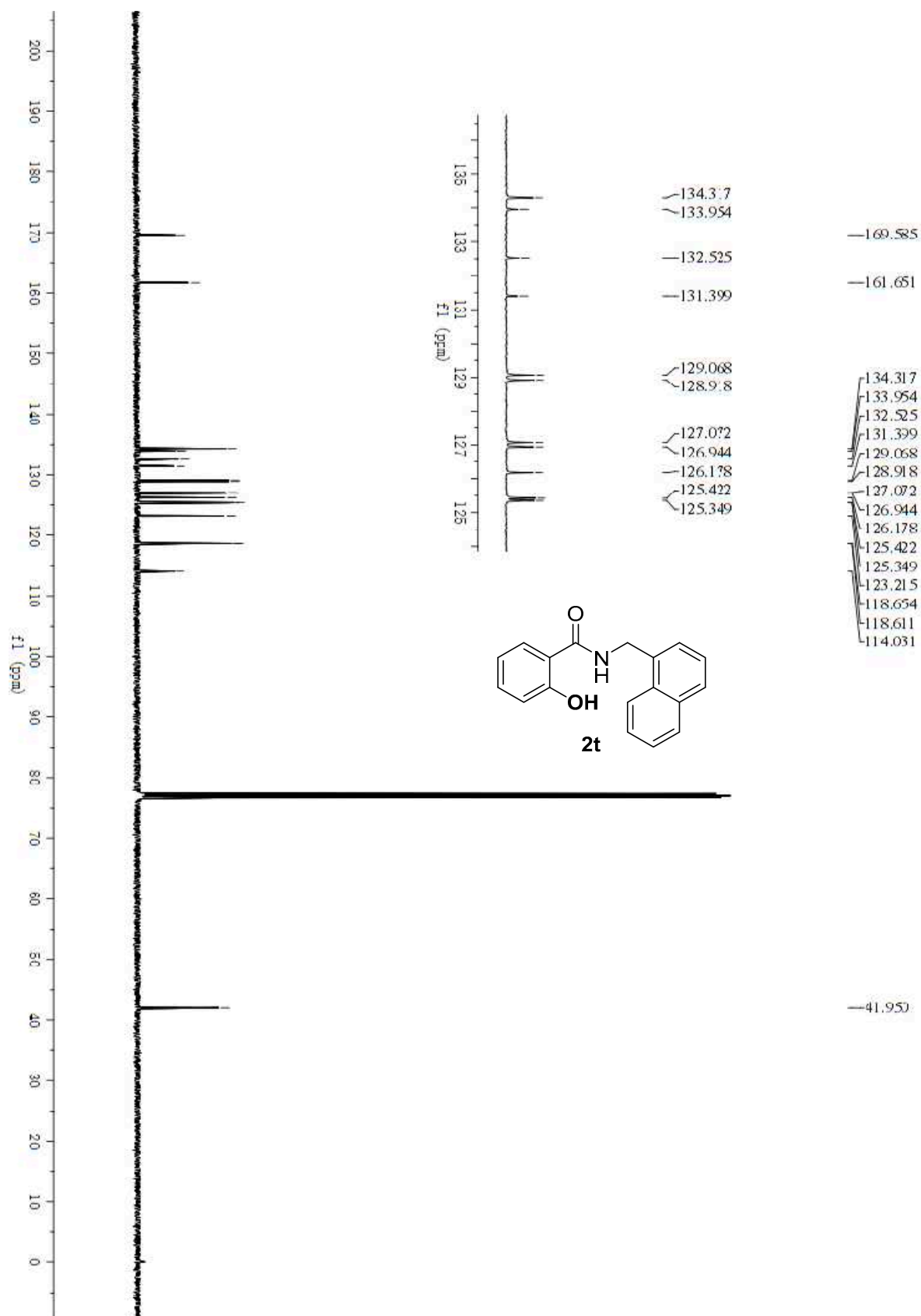
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2s**



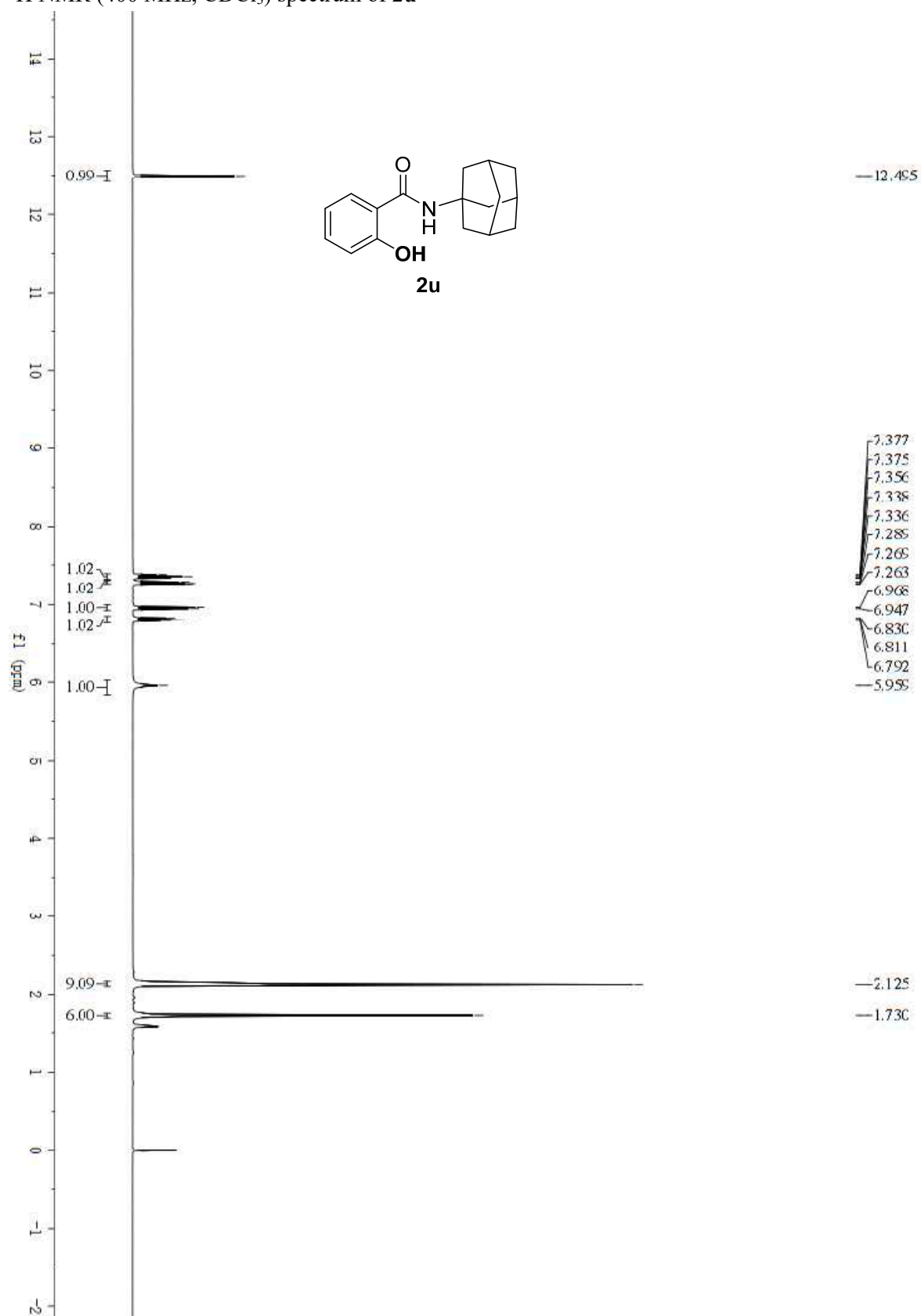
^1H NMR (400 MHz, CDCl_3) spectrum of **2t**



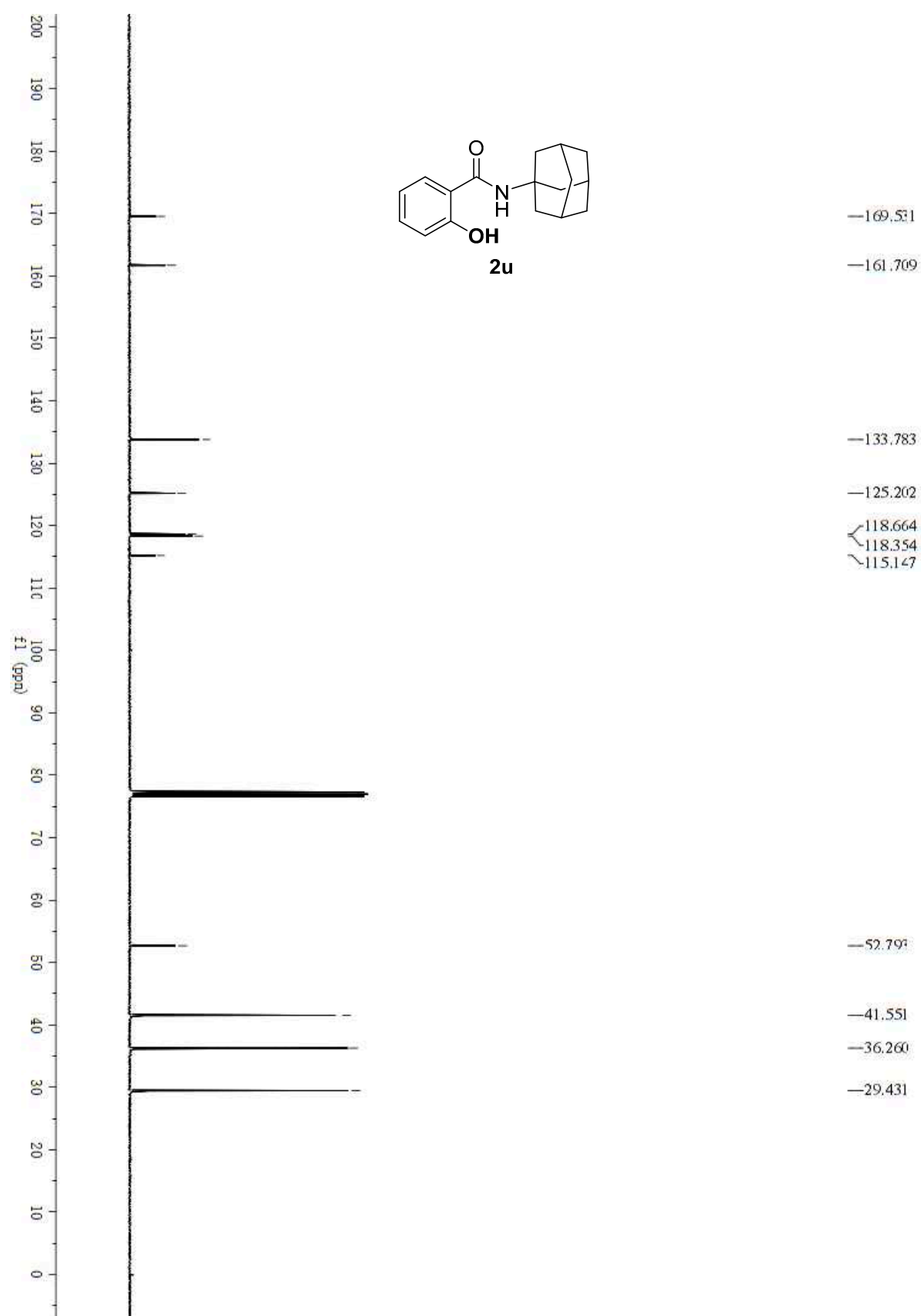
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2t**



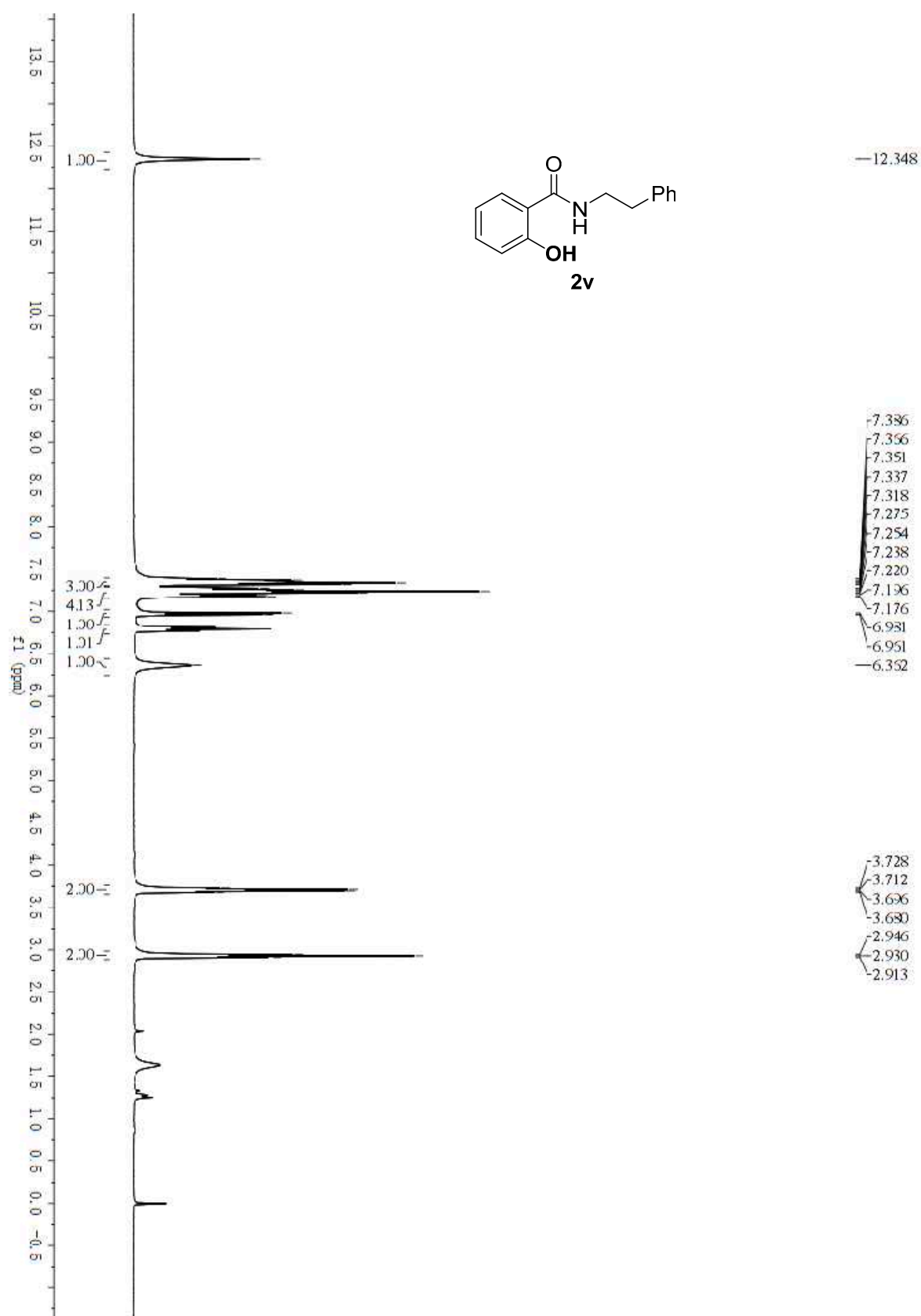
^1H NMR (400 MHz, CDCl_3) spectrum of **2u**



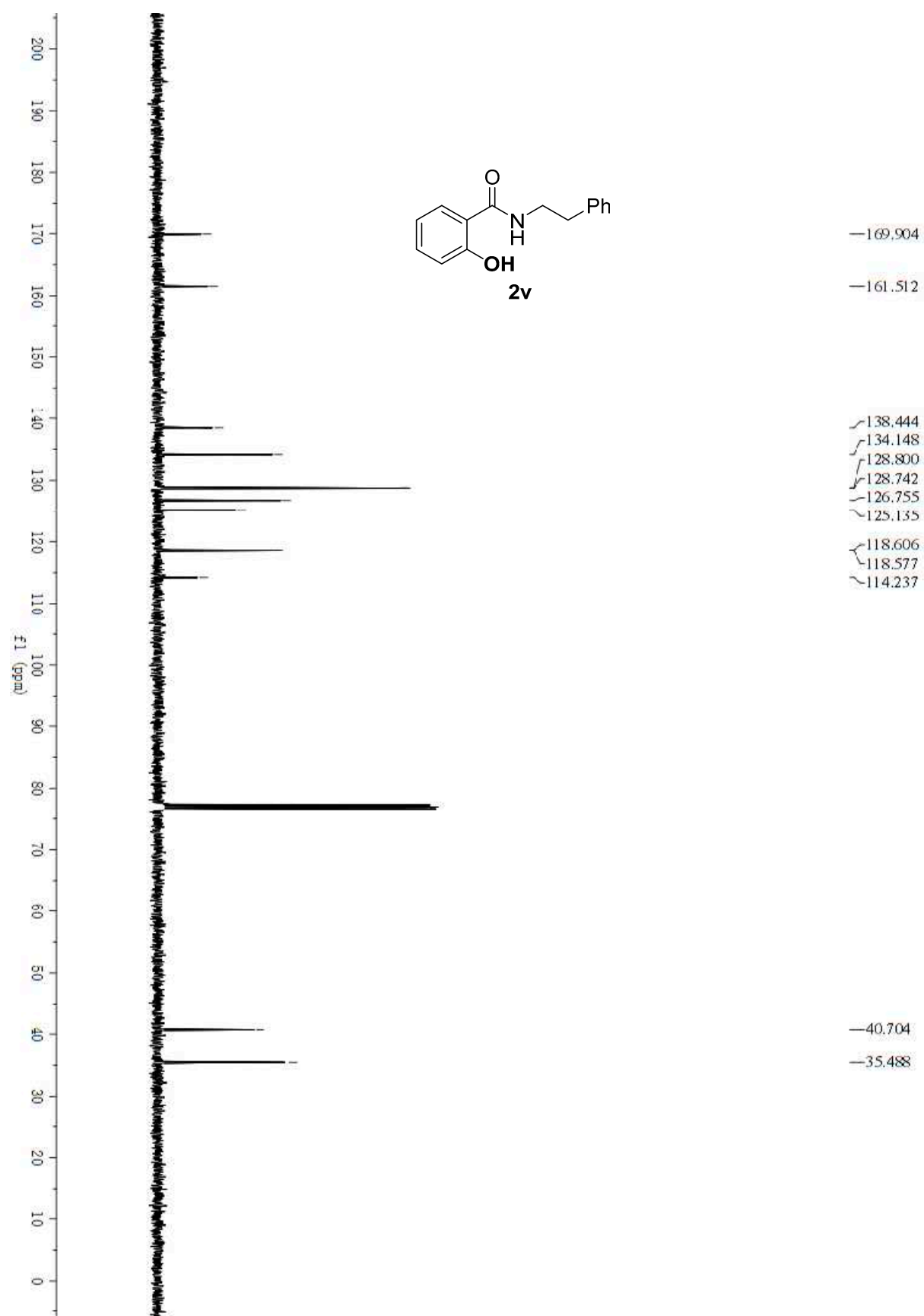
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2u**



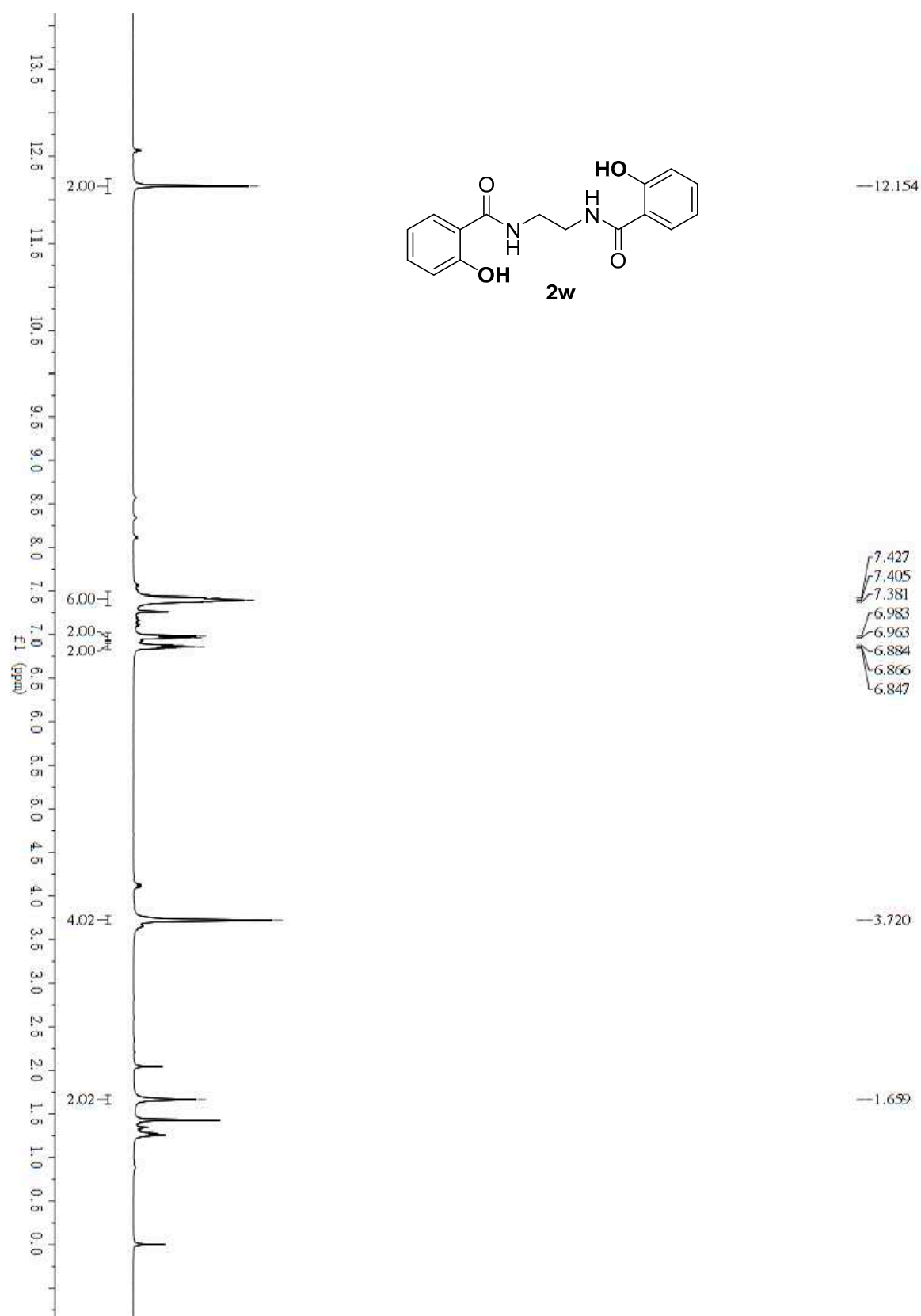
^1H NMR (400 MHz, CDCl_3) spectrum of **2v**



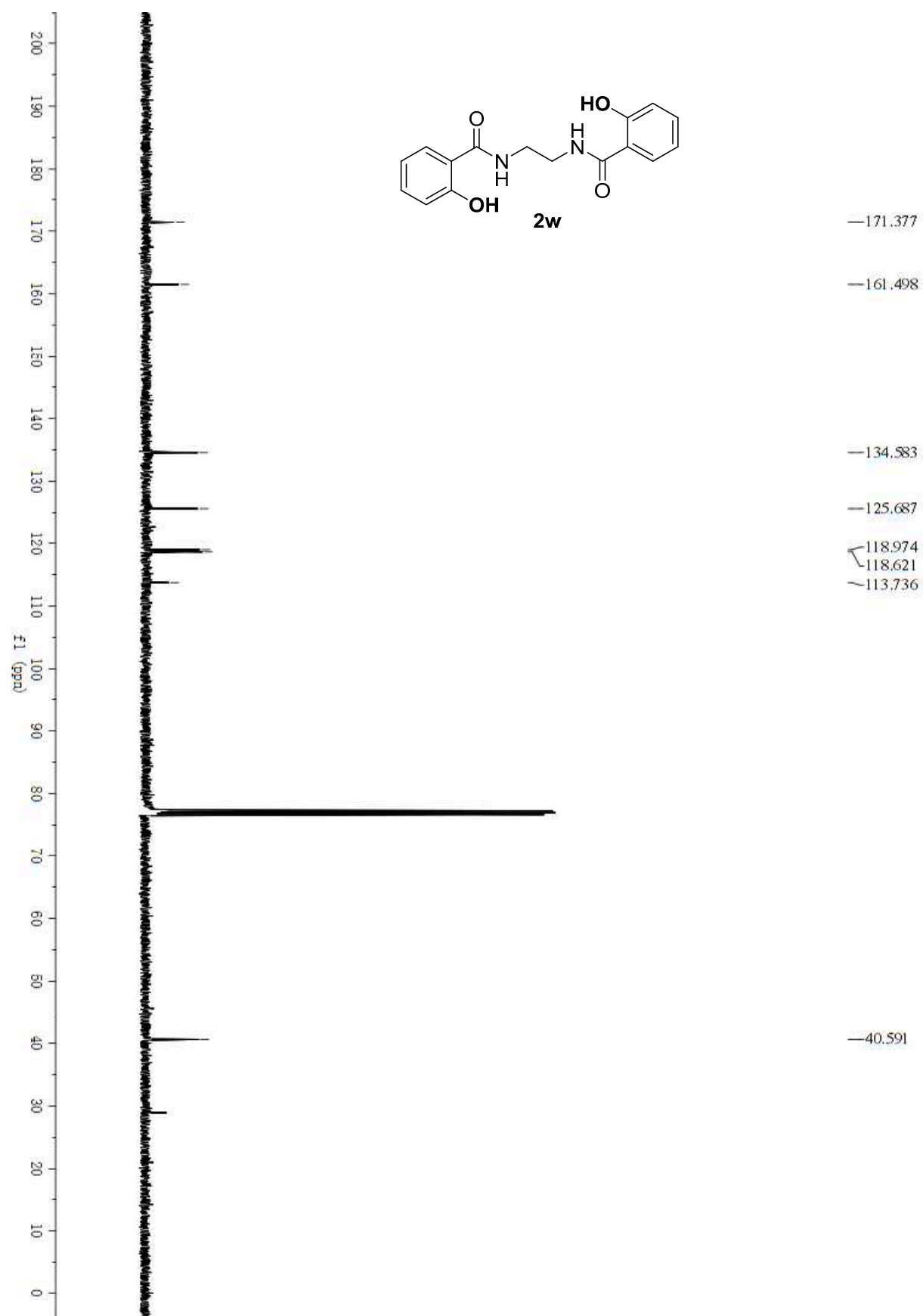
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2v**



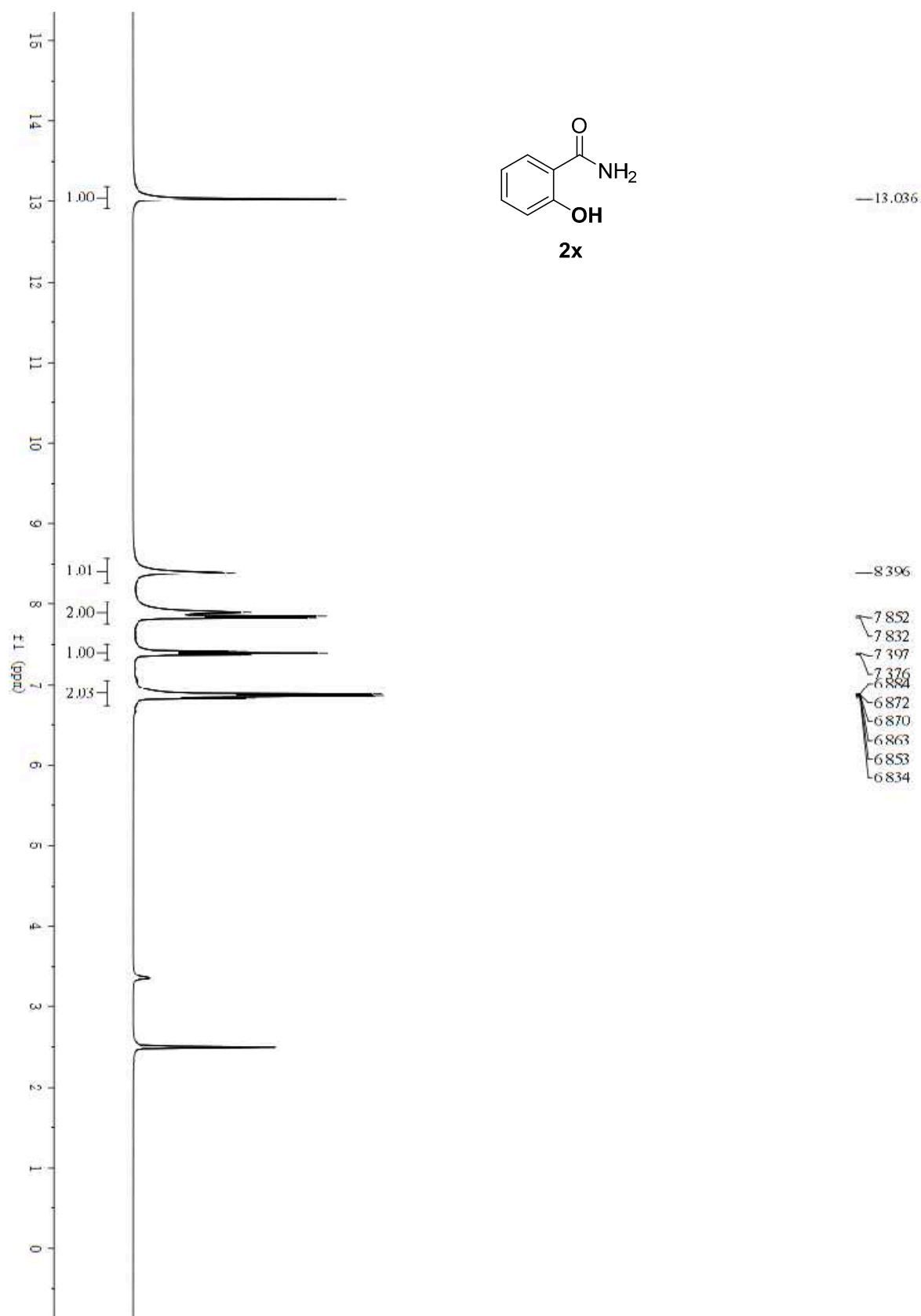
^1H NMR (400 MHz, CDCl_3) spectrum of **2w**



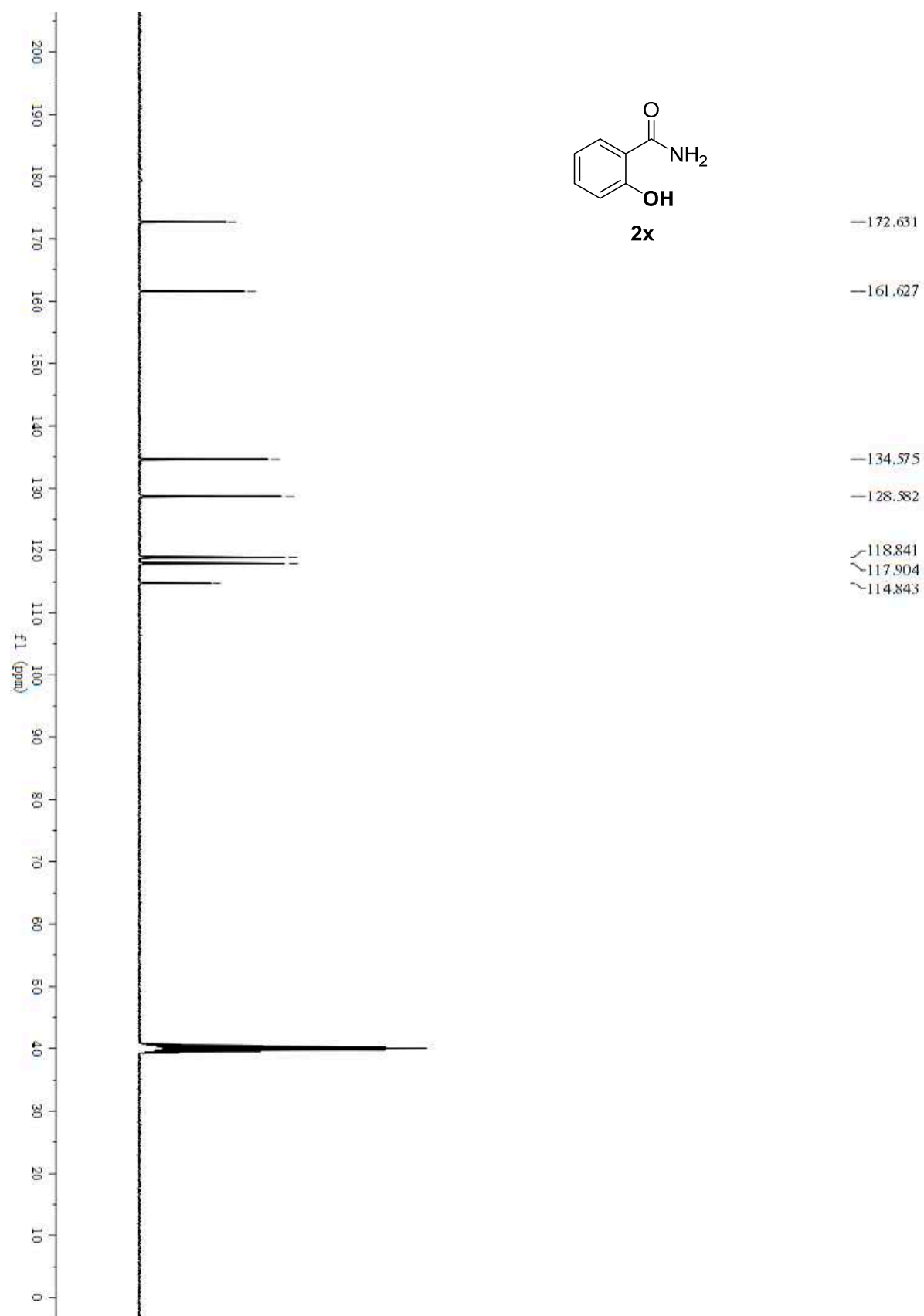
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2w**



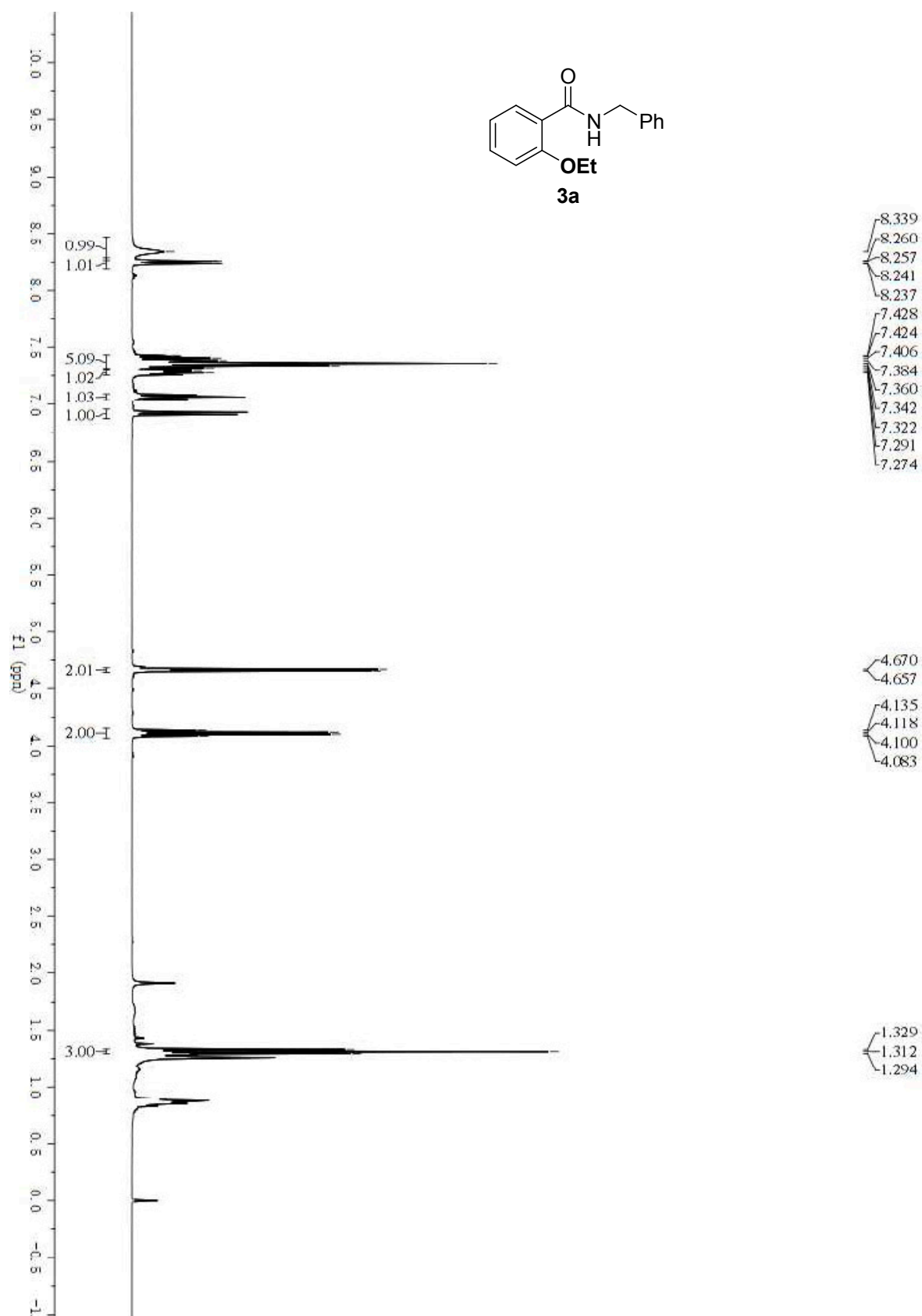
^1H NMR (400 MHz, DMSO- d_6) spectrum of **2x**



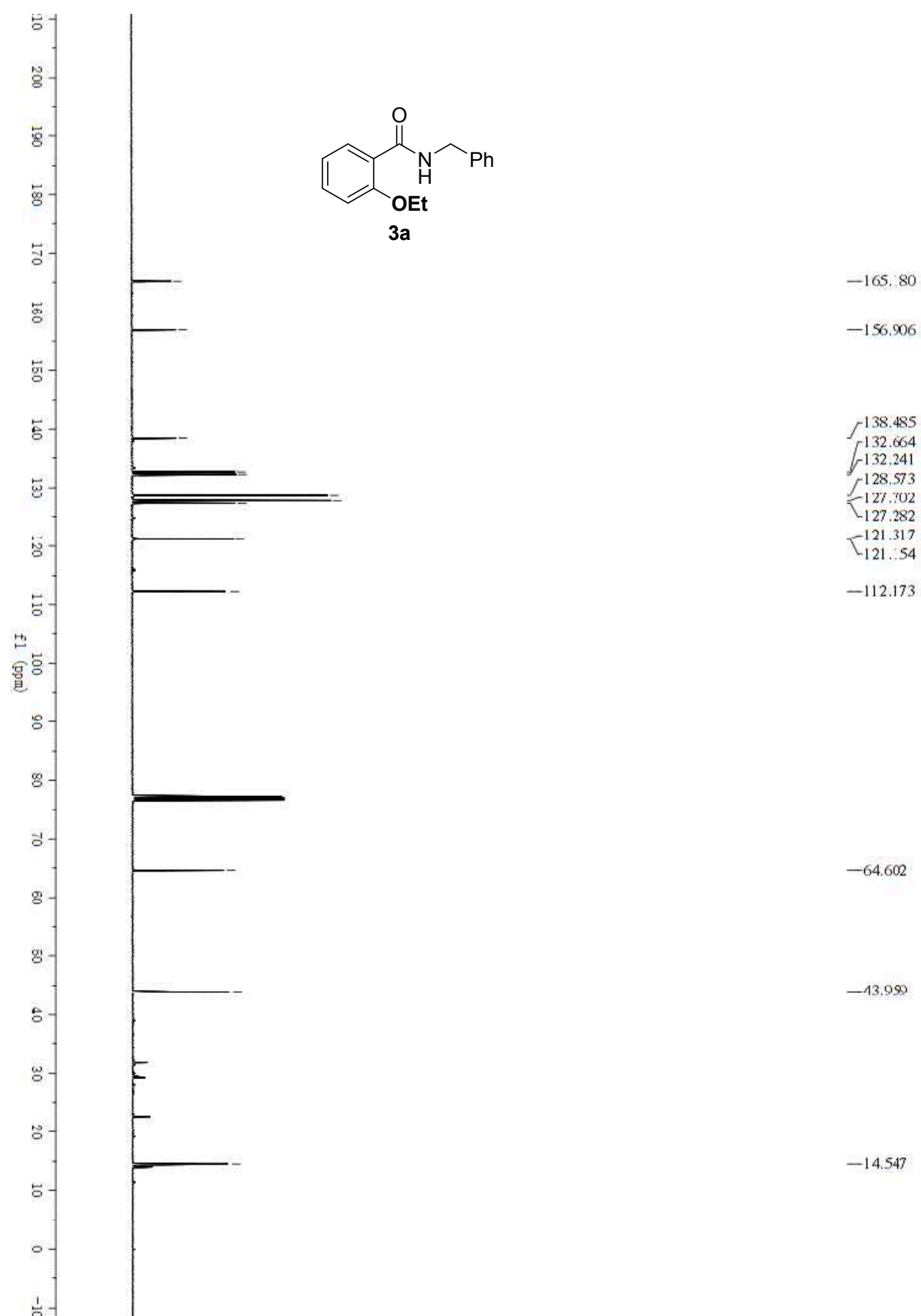
^{13}C { ^1H } NMR (100 MHz, DMSO- d_6) spectrum of **2x**



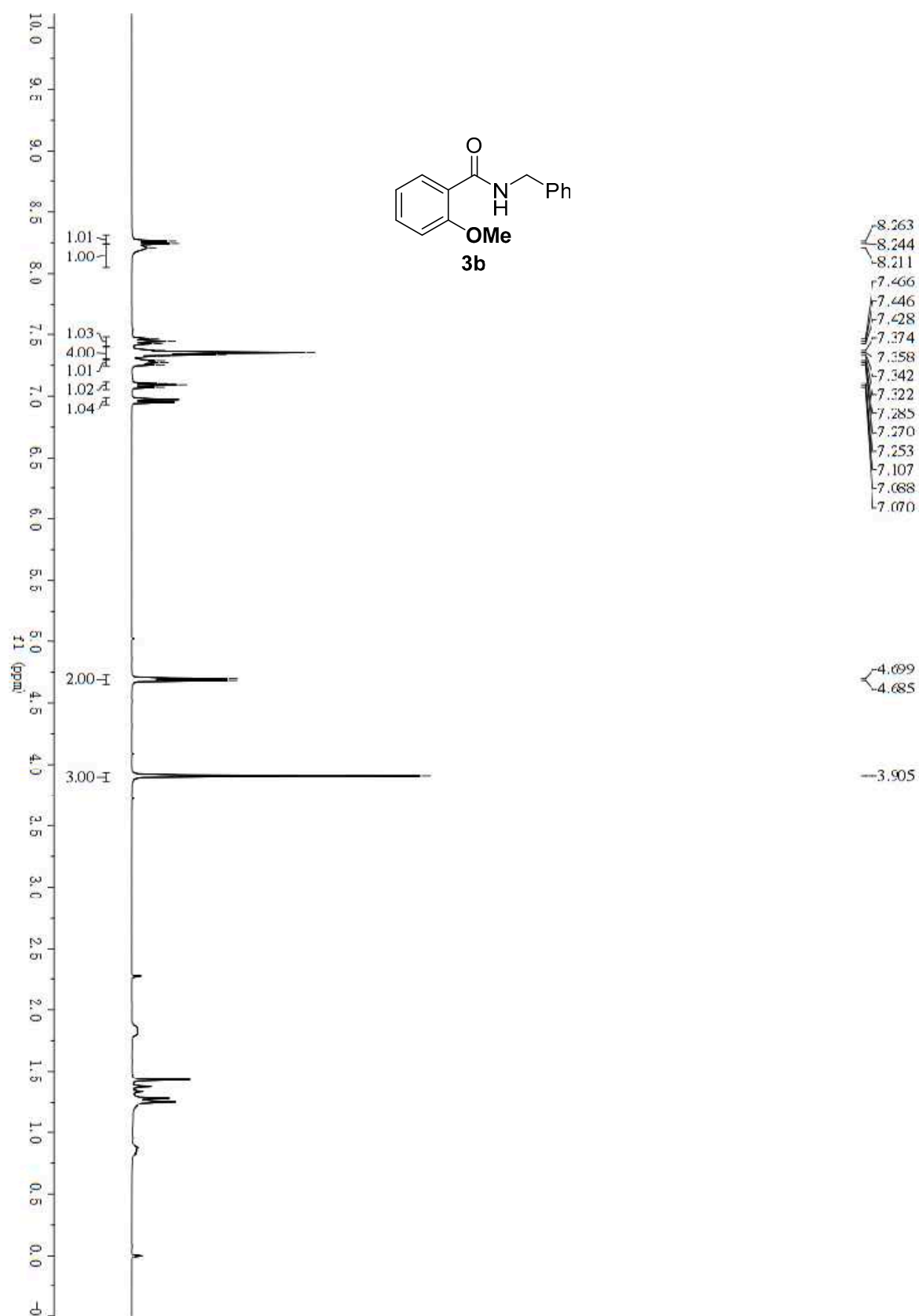
^1H NMR (400 MHz, CDCl_3) spectrum of **3a**



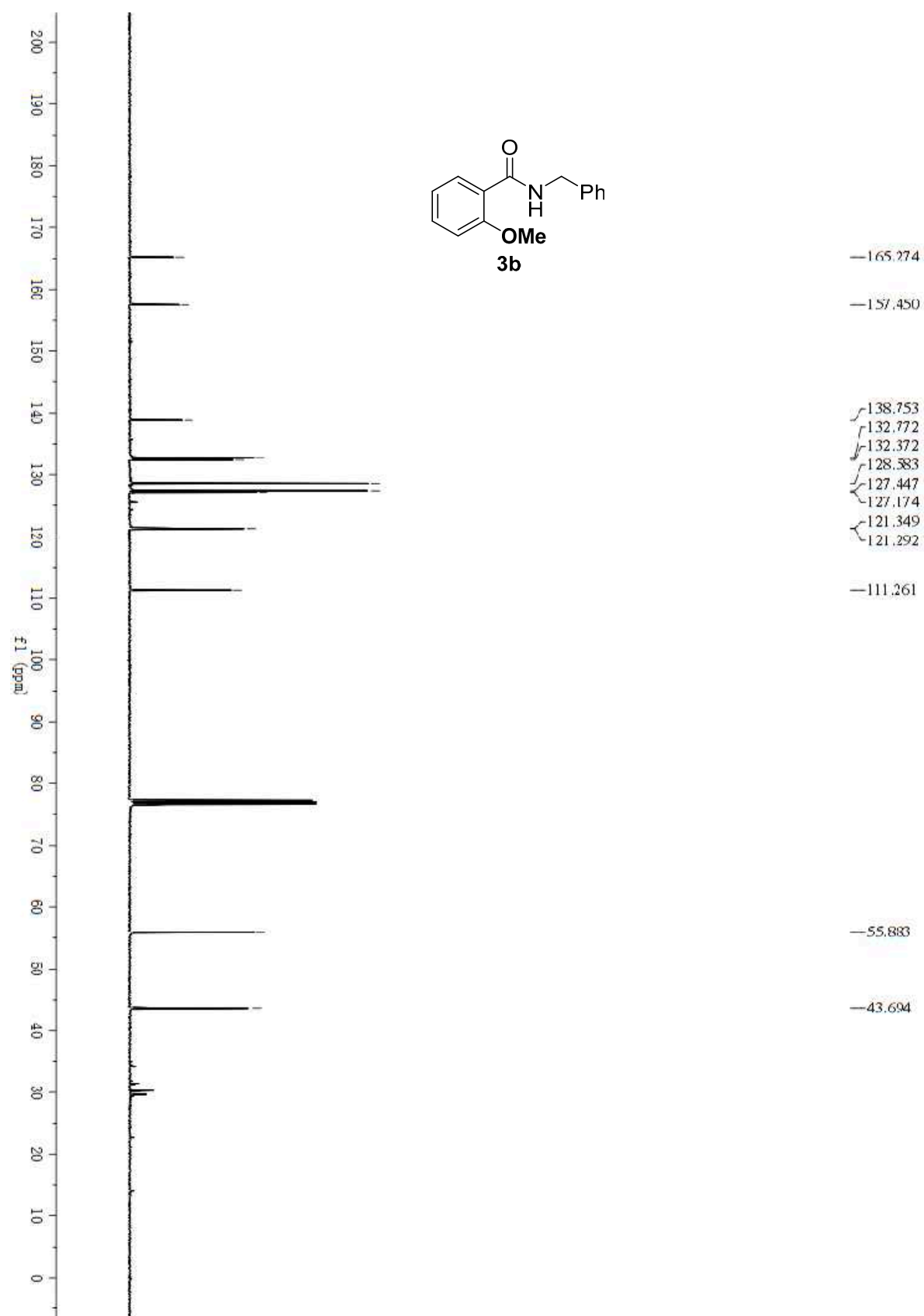
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **2a**



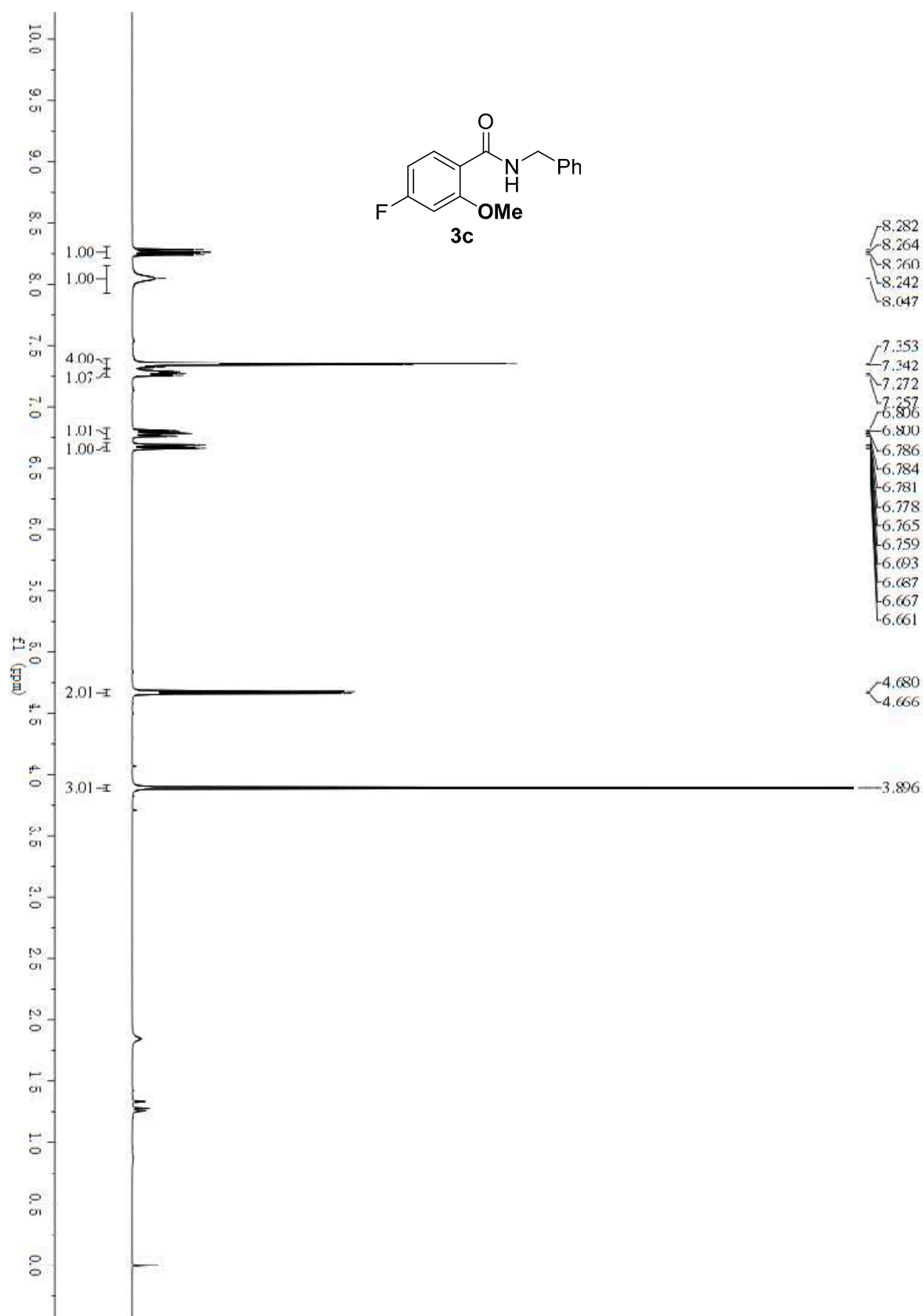
^1H NMR (400 MHz, CDCl_3) spectrum of **3b**



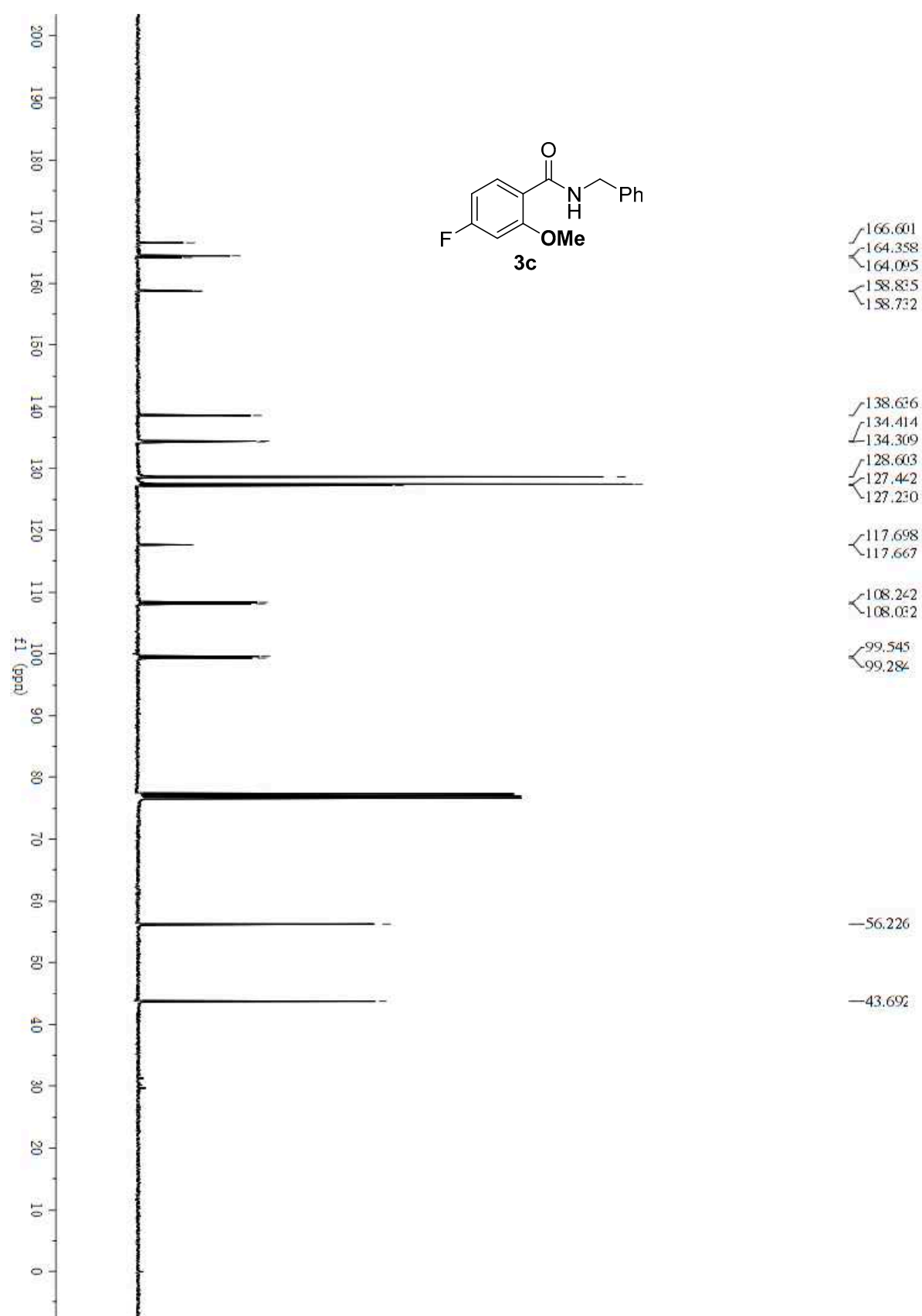
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **3b**



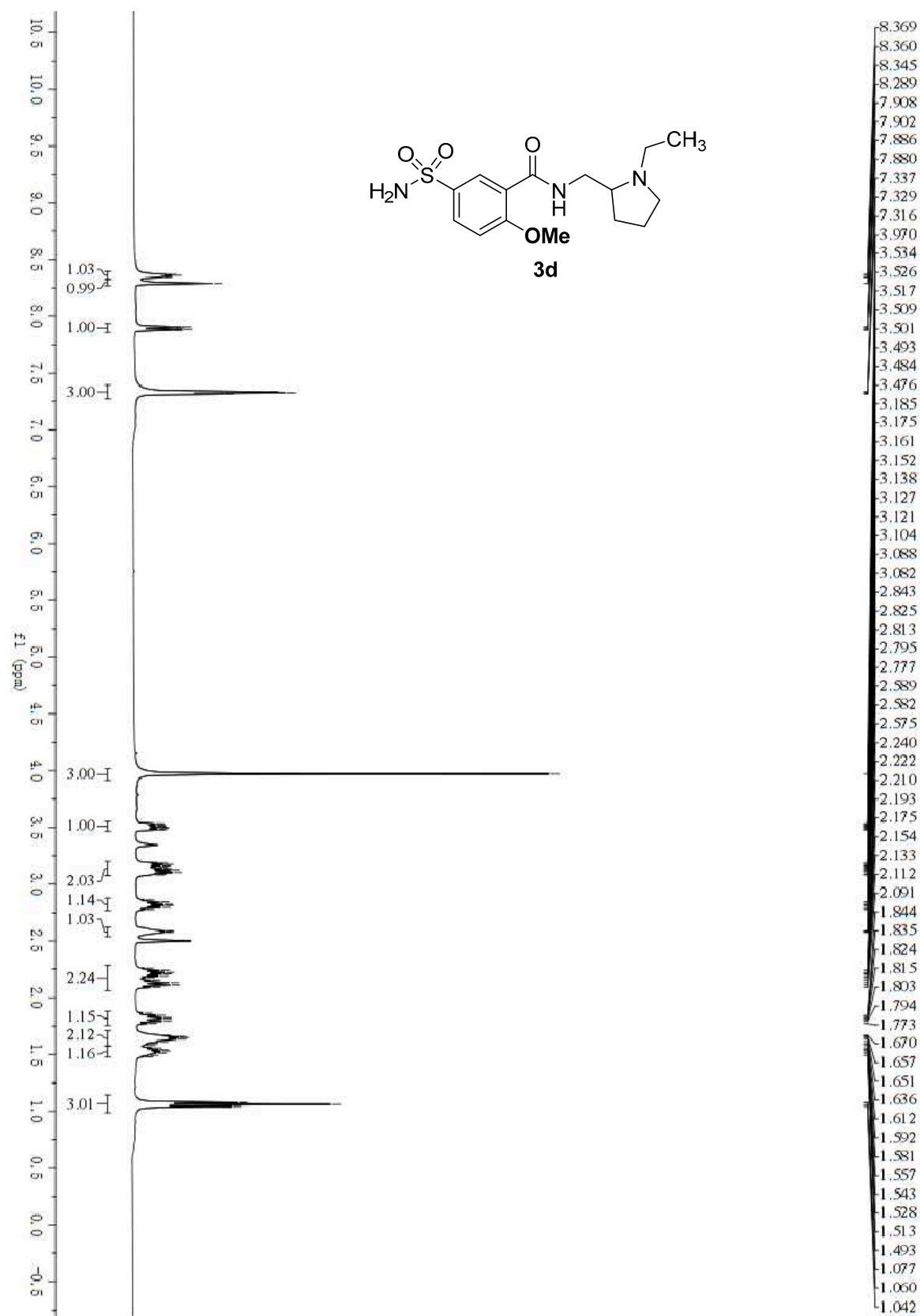
^1H NMR (400 MHz, CDCl_3) spectrum of **3c**



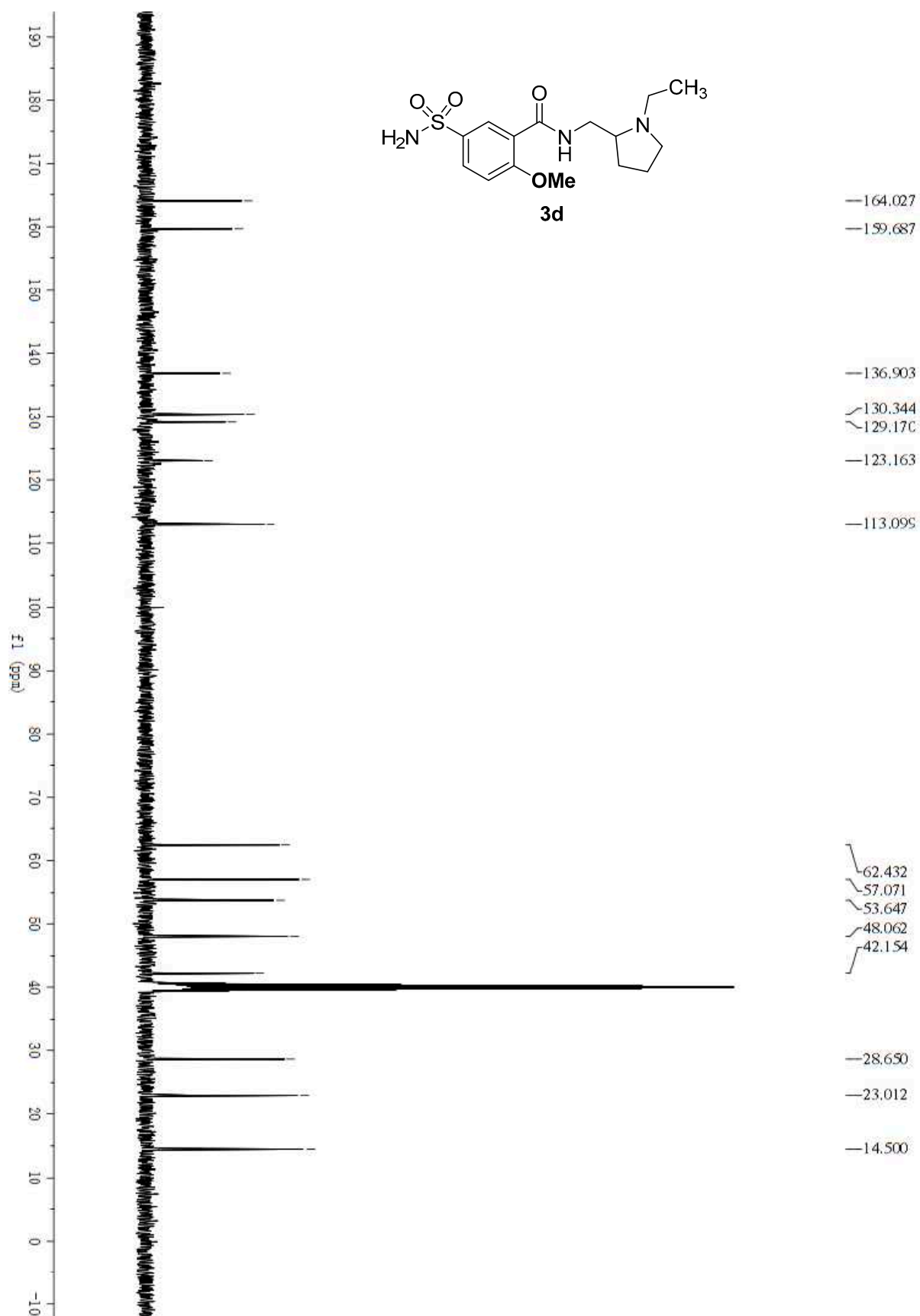
^{13}C { ^1H } NMR (100 MHz, CDCl_3) spectrum of **3c**



^1H NMR (400 MHz, DMSO-d_6) spectrum of **3d**

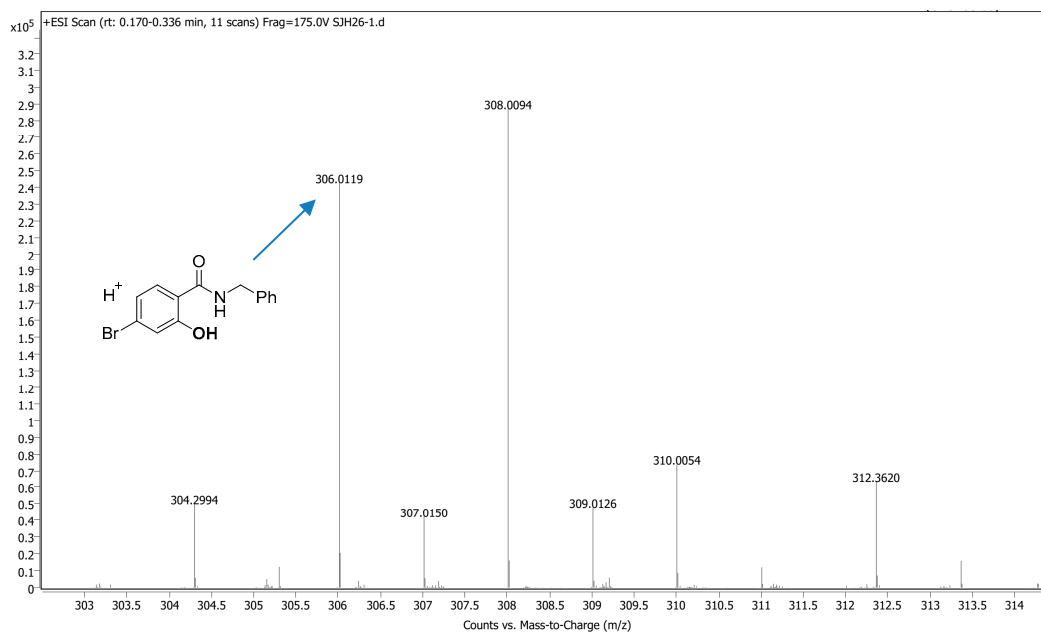


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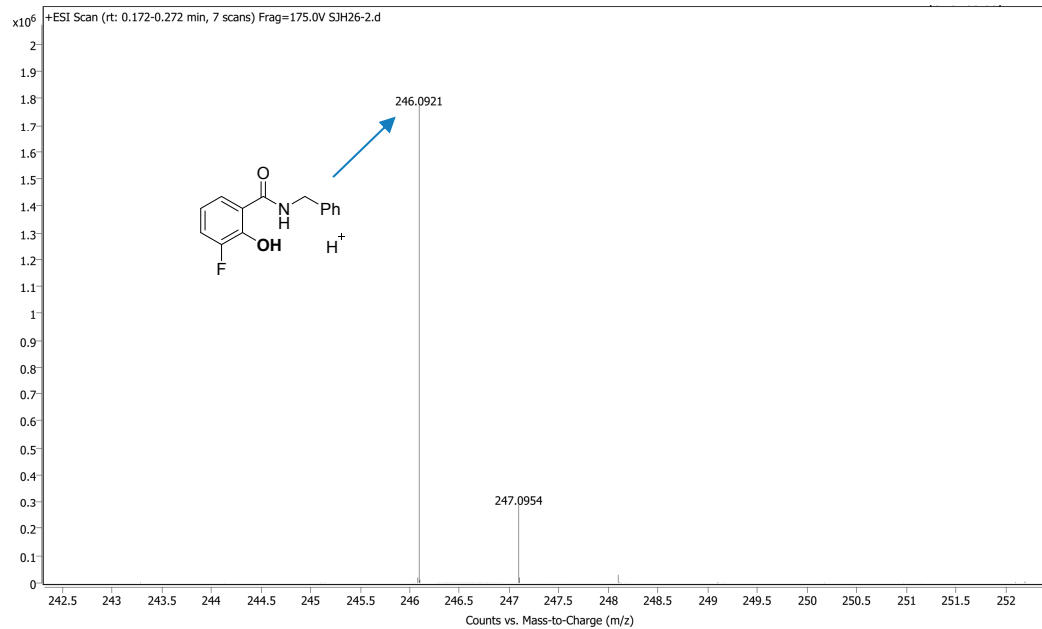
HRMS spectrum of **2e**

HRMS (ESI) m/z calcd for $C_{14}H_{13}BrNO_2$ (MH⁺) 306.0124, found 306.0119.



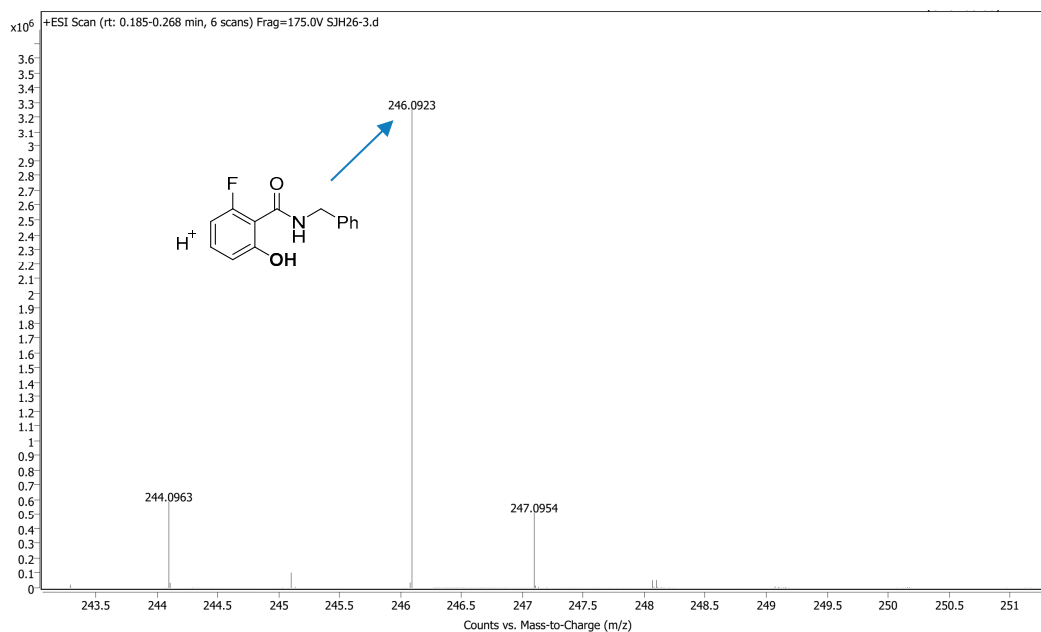
HRMS spectrum of **2f**

HRMS (ESI) m/z calcd for $C_{14}H_{13}FNO_2$ (MH⁺) 246.0925, found 246.0921.



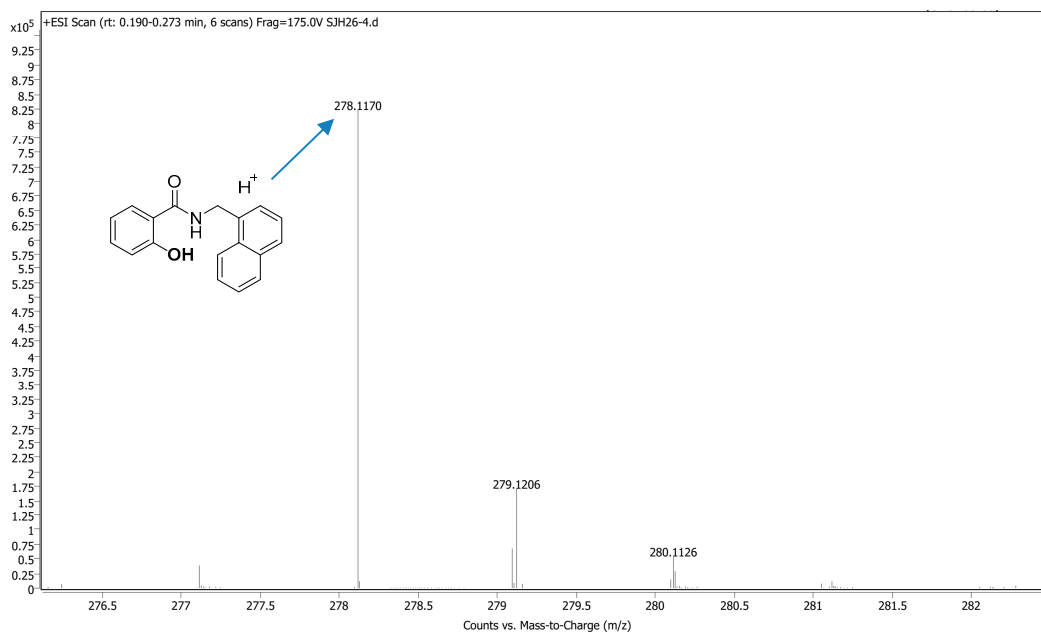
HRMS spectrum of **2h**

HRMS (ESI) m/z calcd for $C_{14}H_{13}FNO_2$ (MH^+) 246.0925, found 246.0923.



HRMS spectrum of **2t**

HRMS (ESI) m/z calcd for $C_{18}H_{16}NO_2$ (MH^+) 278.1176, found 278.1170.



HRMS spectrum of **3c**

HRMS (ESI) m/z calcd for $C_{15}H_{15}FNO_2$ (MH^+) 260.1081, found 260.1079.

