BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY

**Supporting Information**

**for**

**Synthesis of photo- and ionochromic *N*-acylated 2-aminomethylenebenzo[*b*]thiophene-3(2*Н*)-ones with a terminal phenanthroline group**

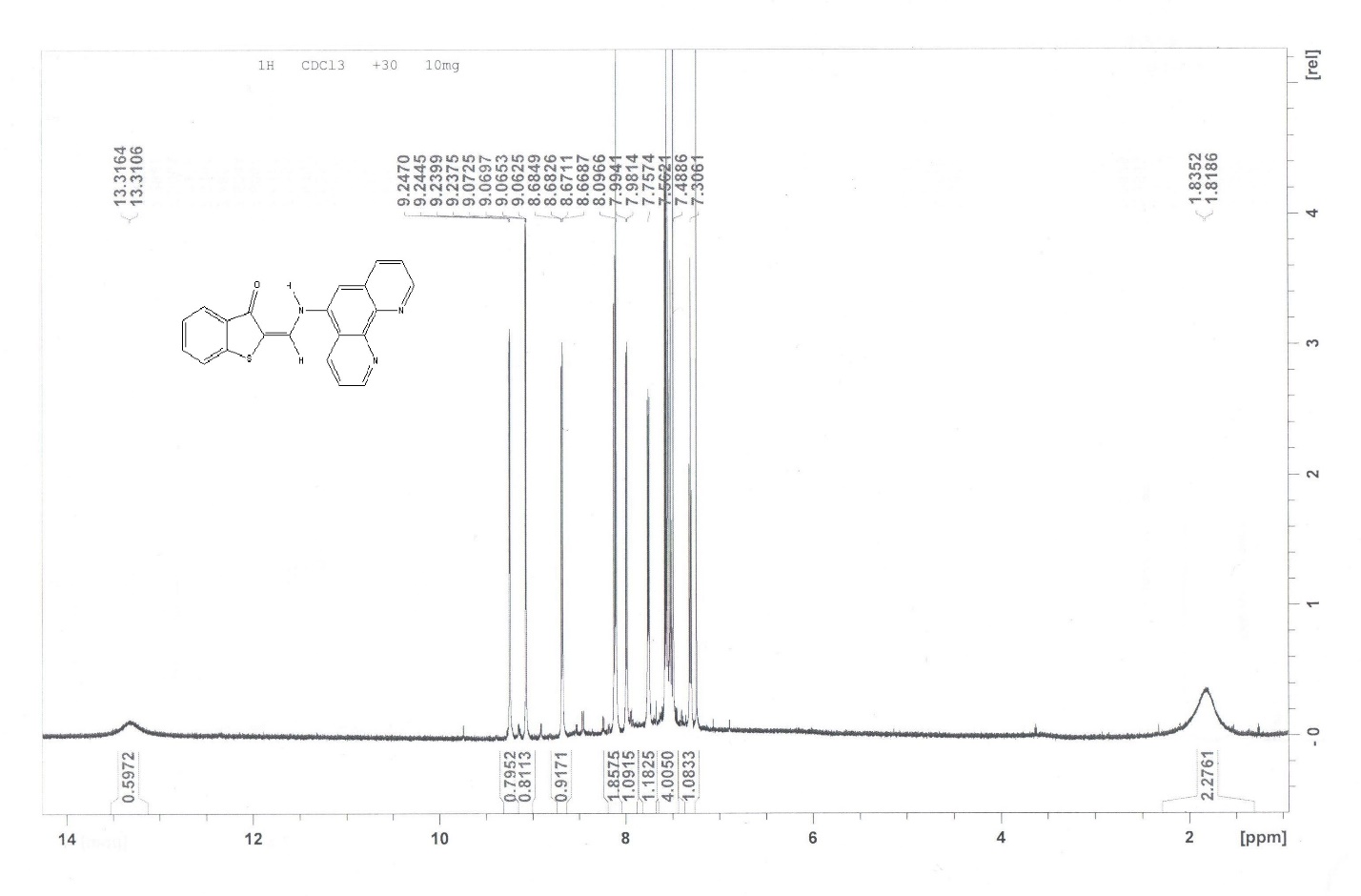
Vladimir P. Rybalkin, Sofiya Yu. Zmeeva, Lidiya L. Popova, Irina V. Dubonosova,

Olga Yu. Karlutova, Oleg P. Demidov, Alexander D. Dubonosov and Vladimir A. Bren

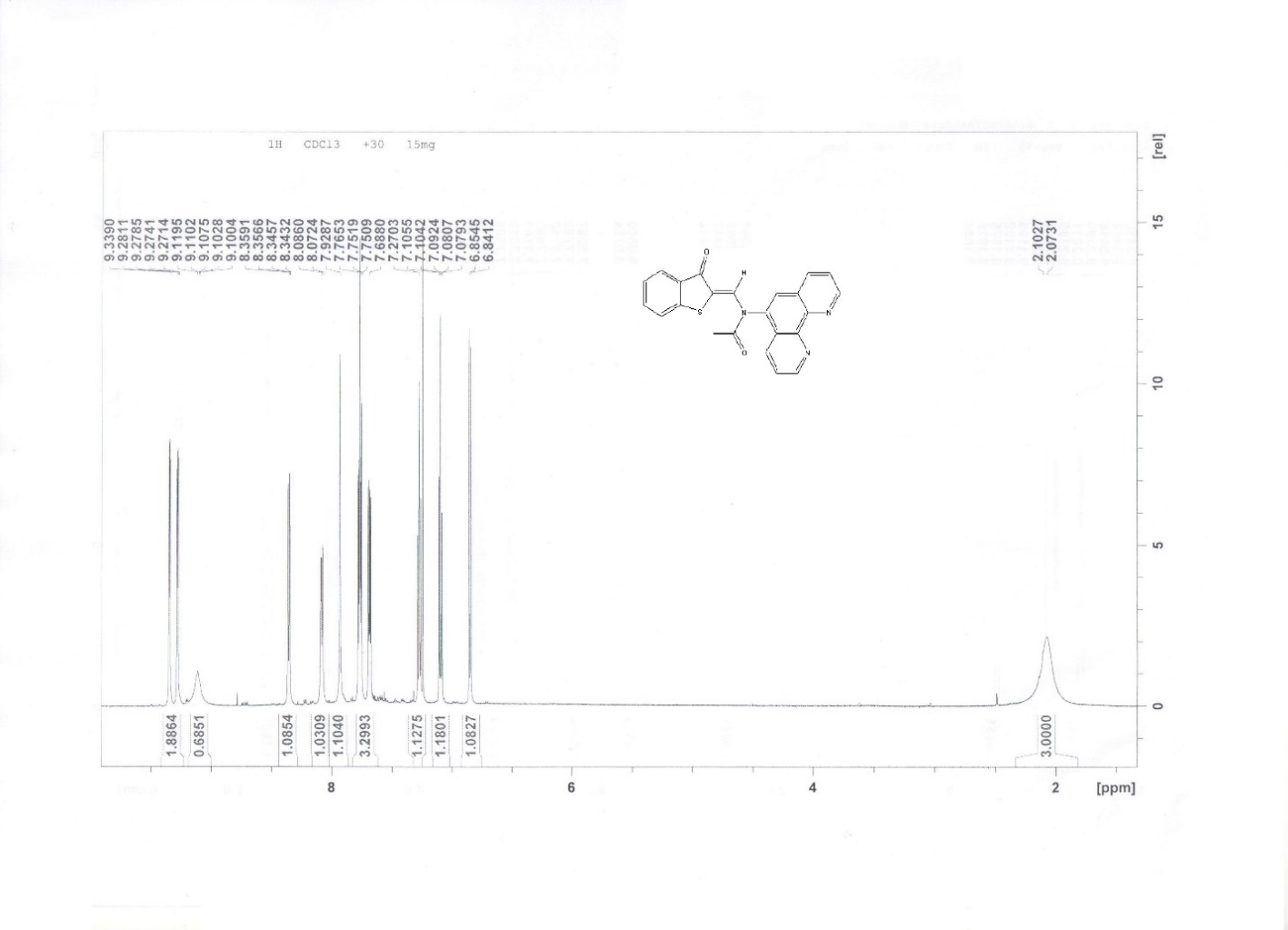
**Copies of IR, 1Н, 13С NMR and HRMS spectra of all novel compounds**

**1, 2a–c and 3a–c**

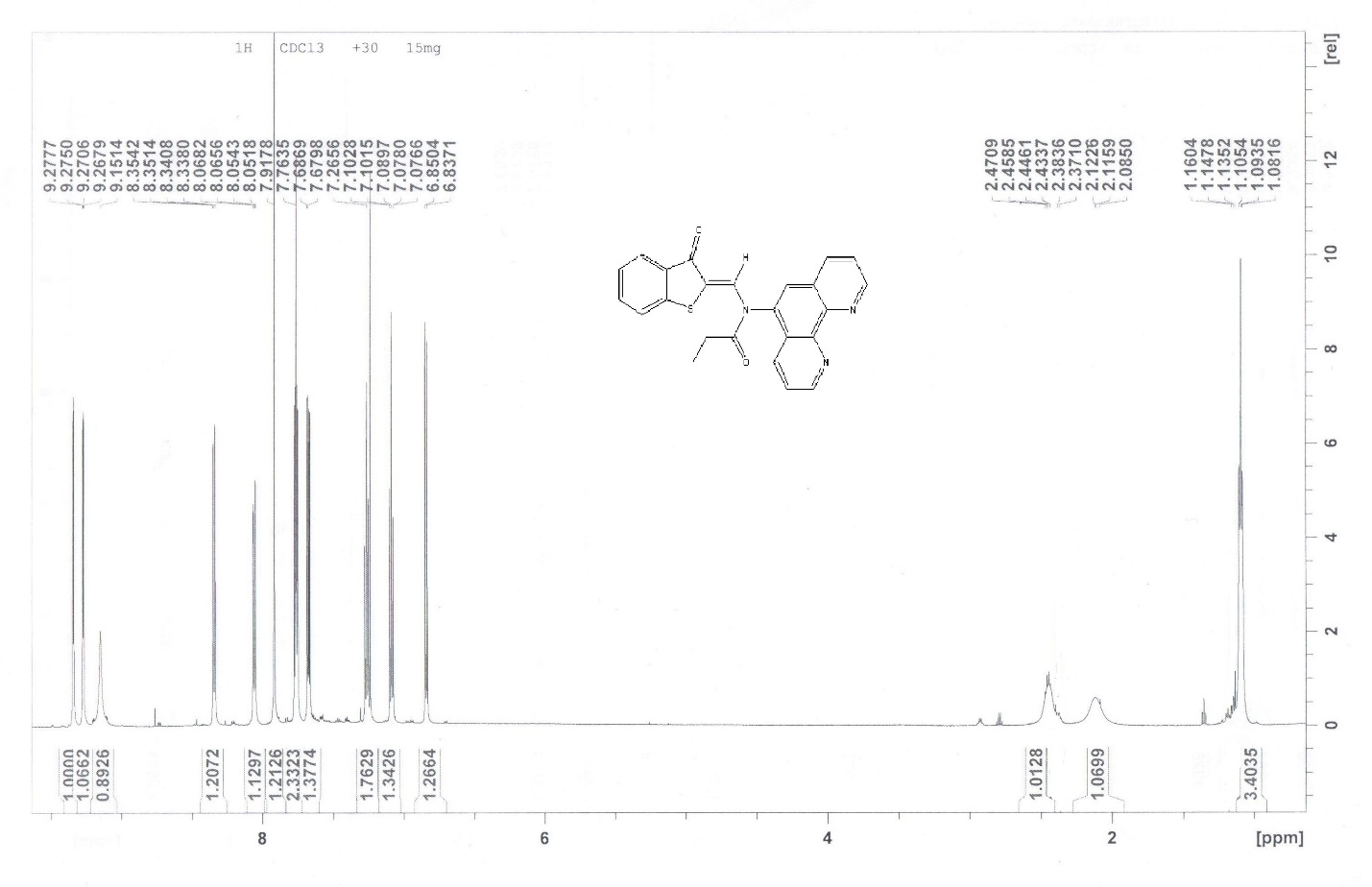
**Fig. S1.** 1H NMR spectrum of compound **1**in CDCl3.



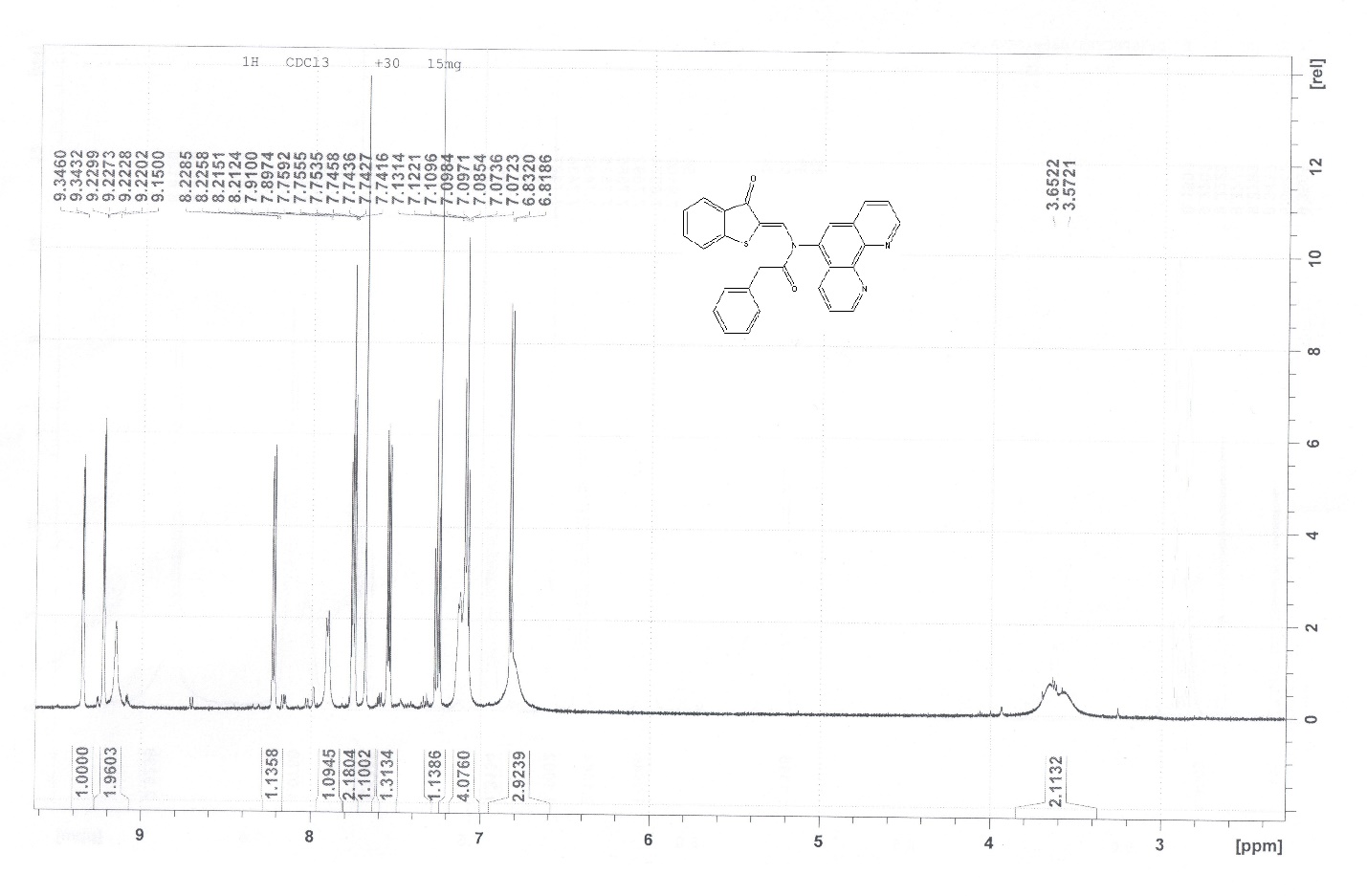
**Fig. S2.** 1H NMR spectrum of compound **2a**in CDCl3.



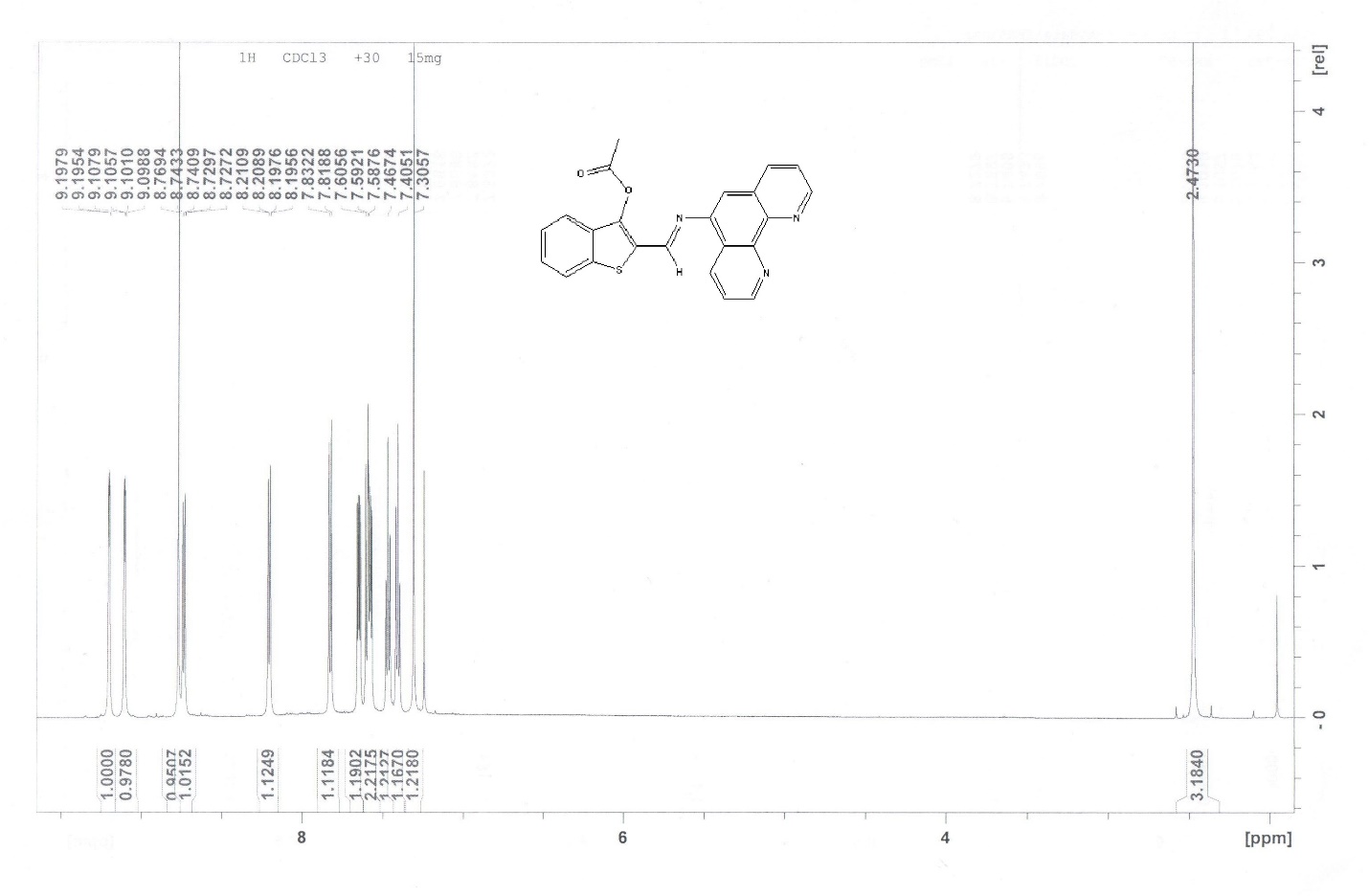
**Fig. S3.** 1H NMR spectrum of compound **2b**in CDCl3.



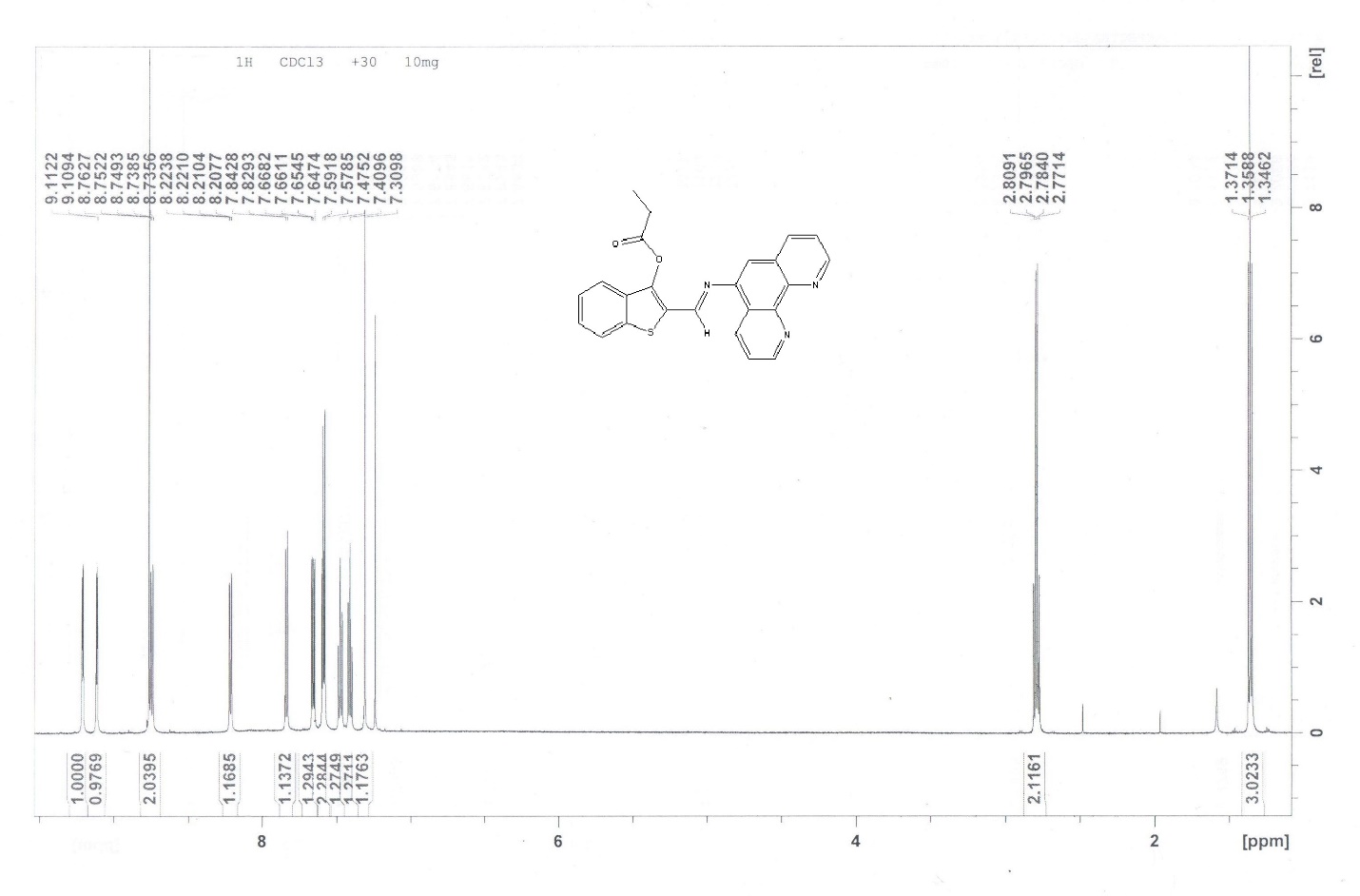
**Fig. S4.** 1H NMR spectrum of compound **2c**in CDCl3.



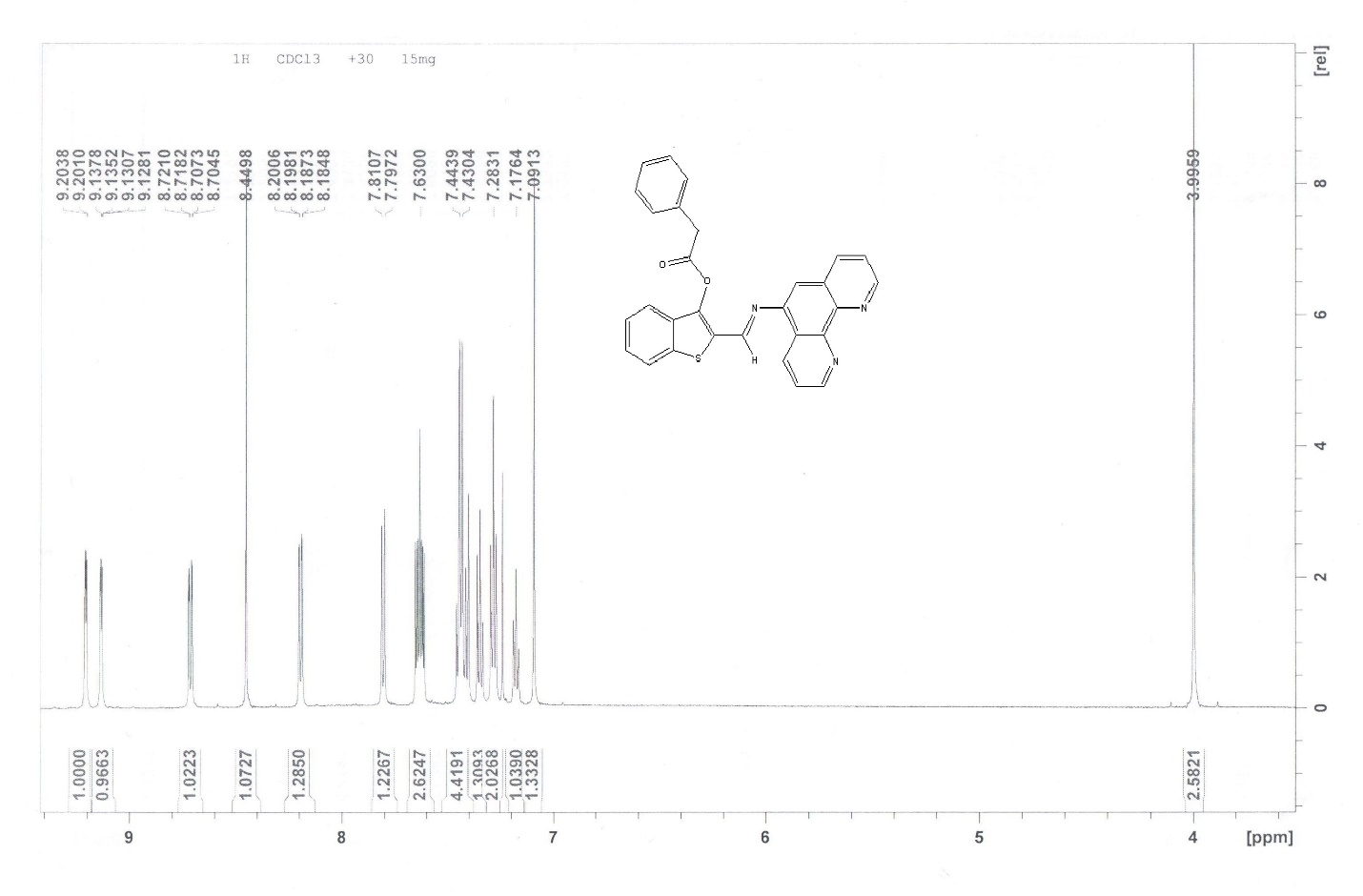
**Fig. S5.** 1H NMR spectrum of compound **3a**in CDCl3.



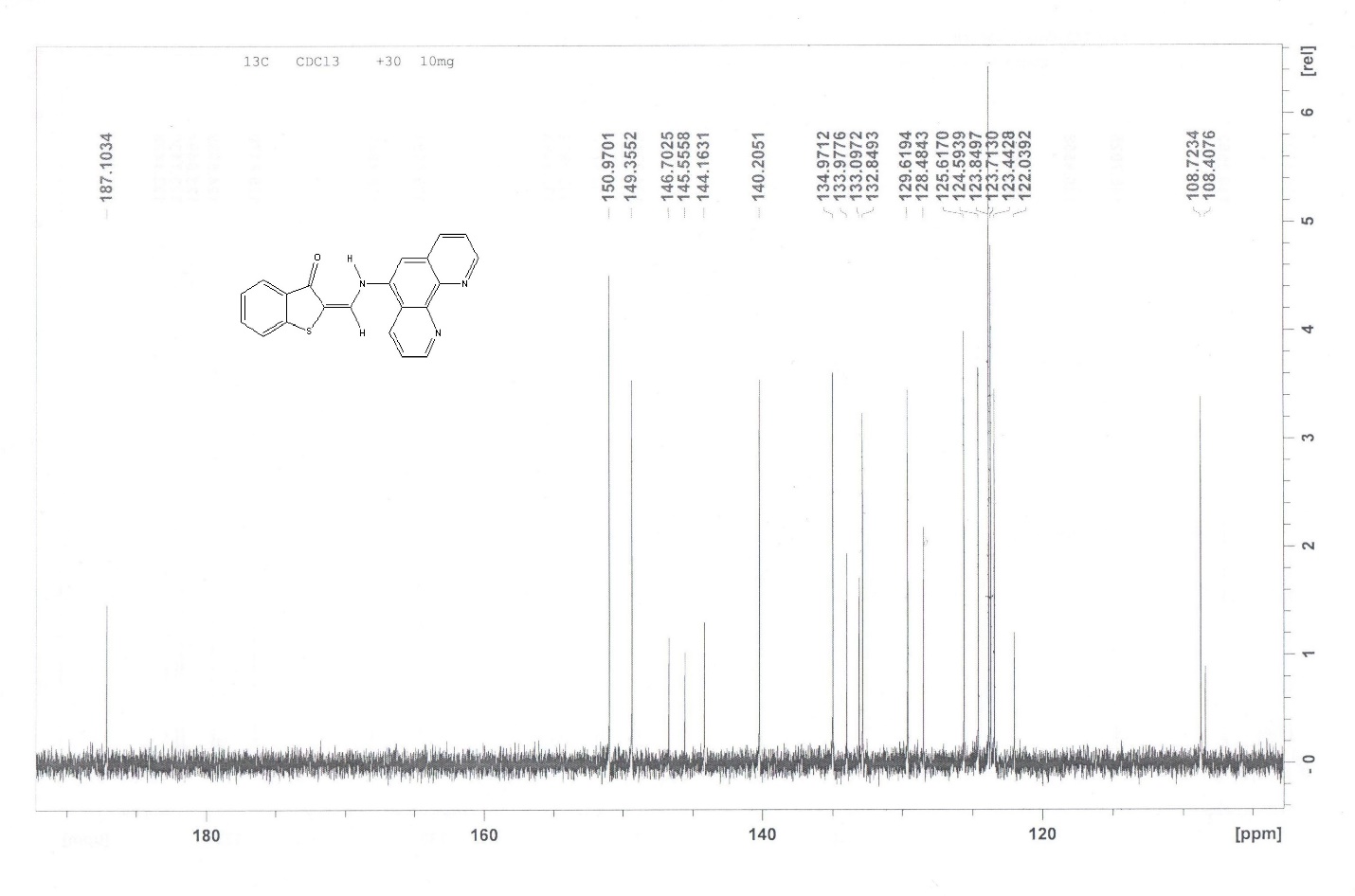
**Fig. S6.** 1H NMR spectrum of compound **3b**in CDCl3.



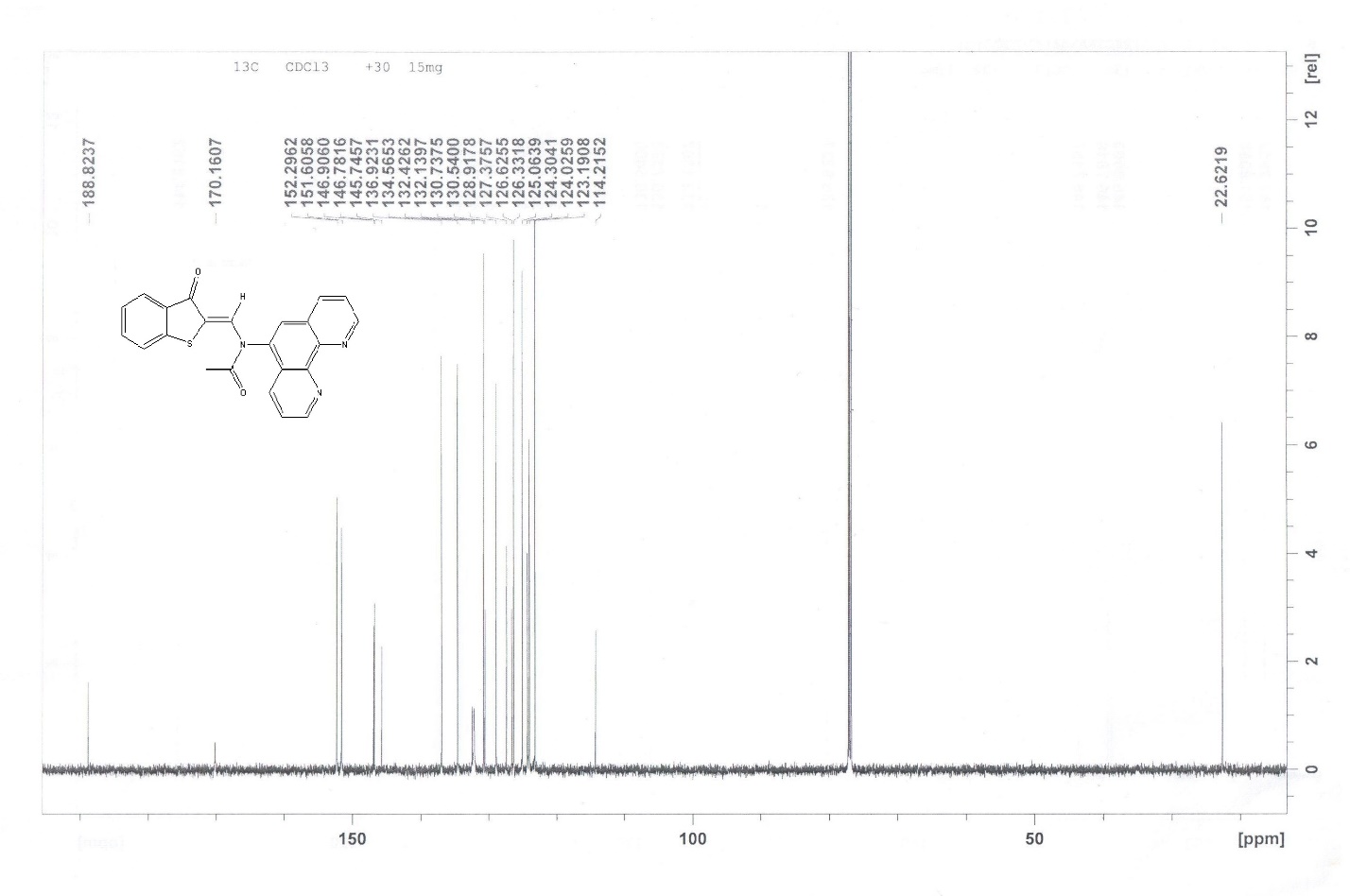
**Fig. S7.** 1H NMR spectrum of compound **3c**in CDCl3.



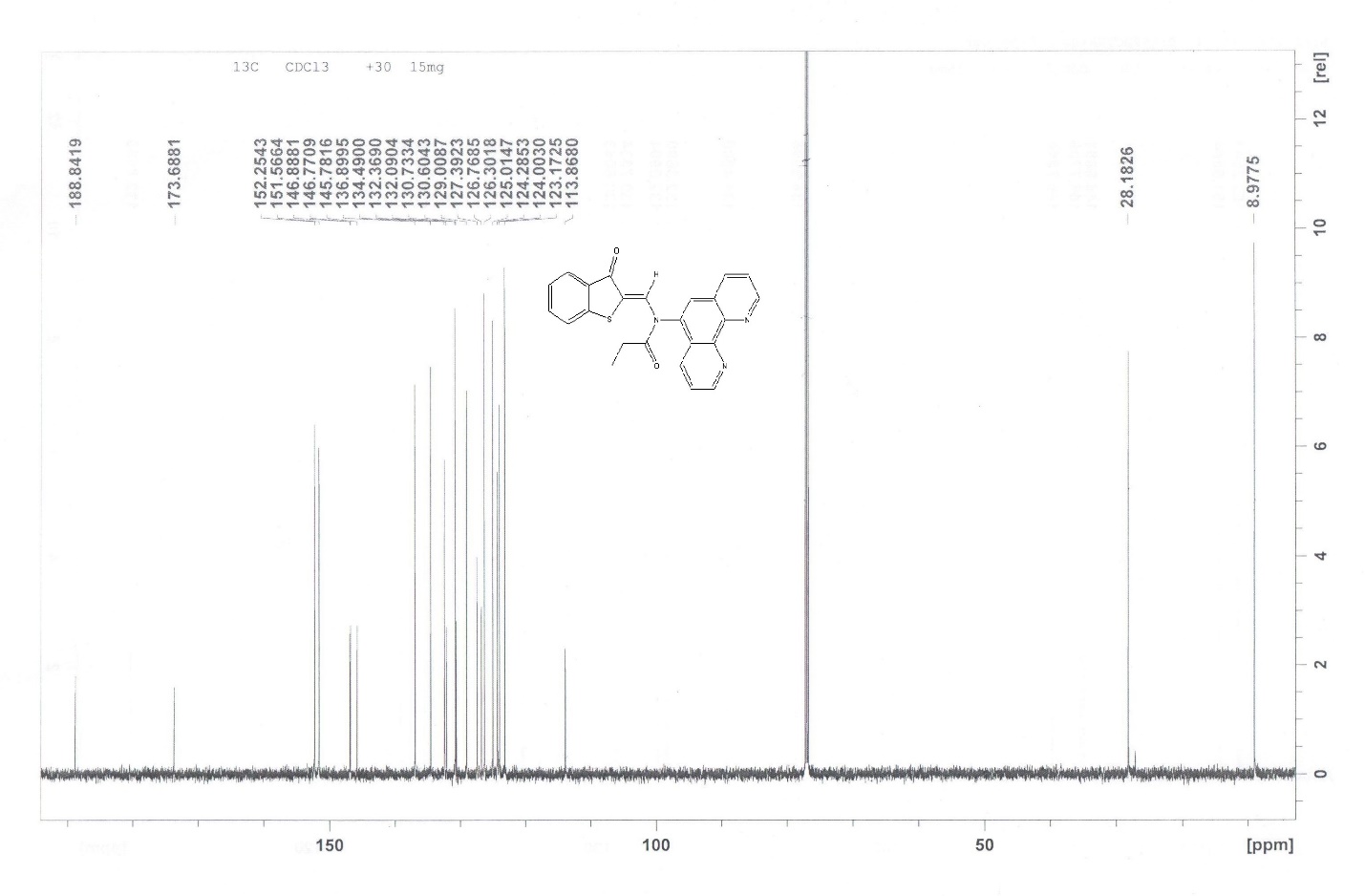
**Fig. S8.** 13C NMRspectrum of compound **1**in CDCl3.

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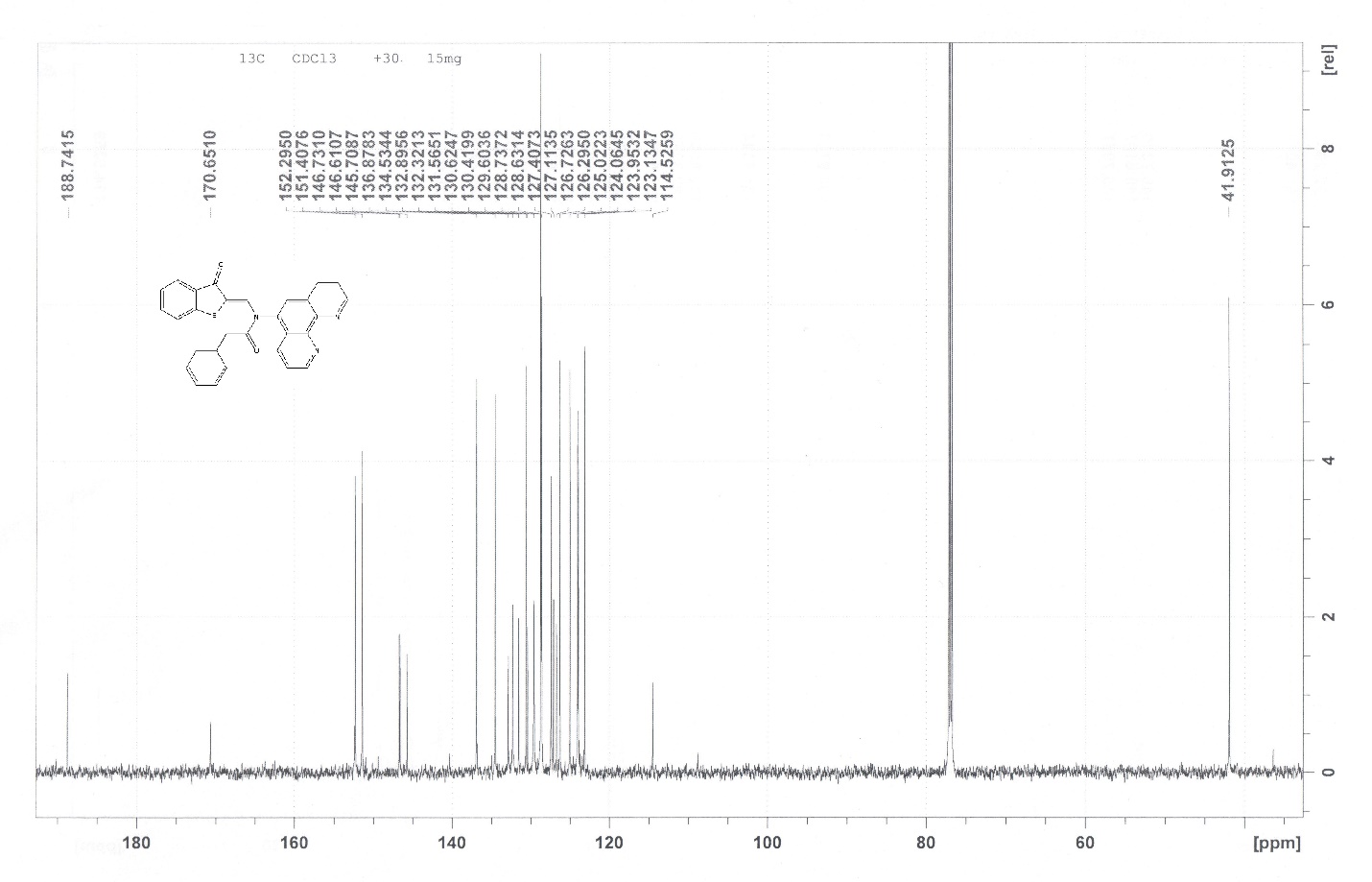
**Fig. S9.** 13C NMRspectrum of compound **2a**in CDCl3.



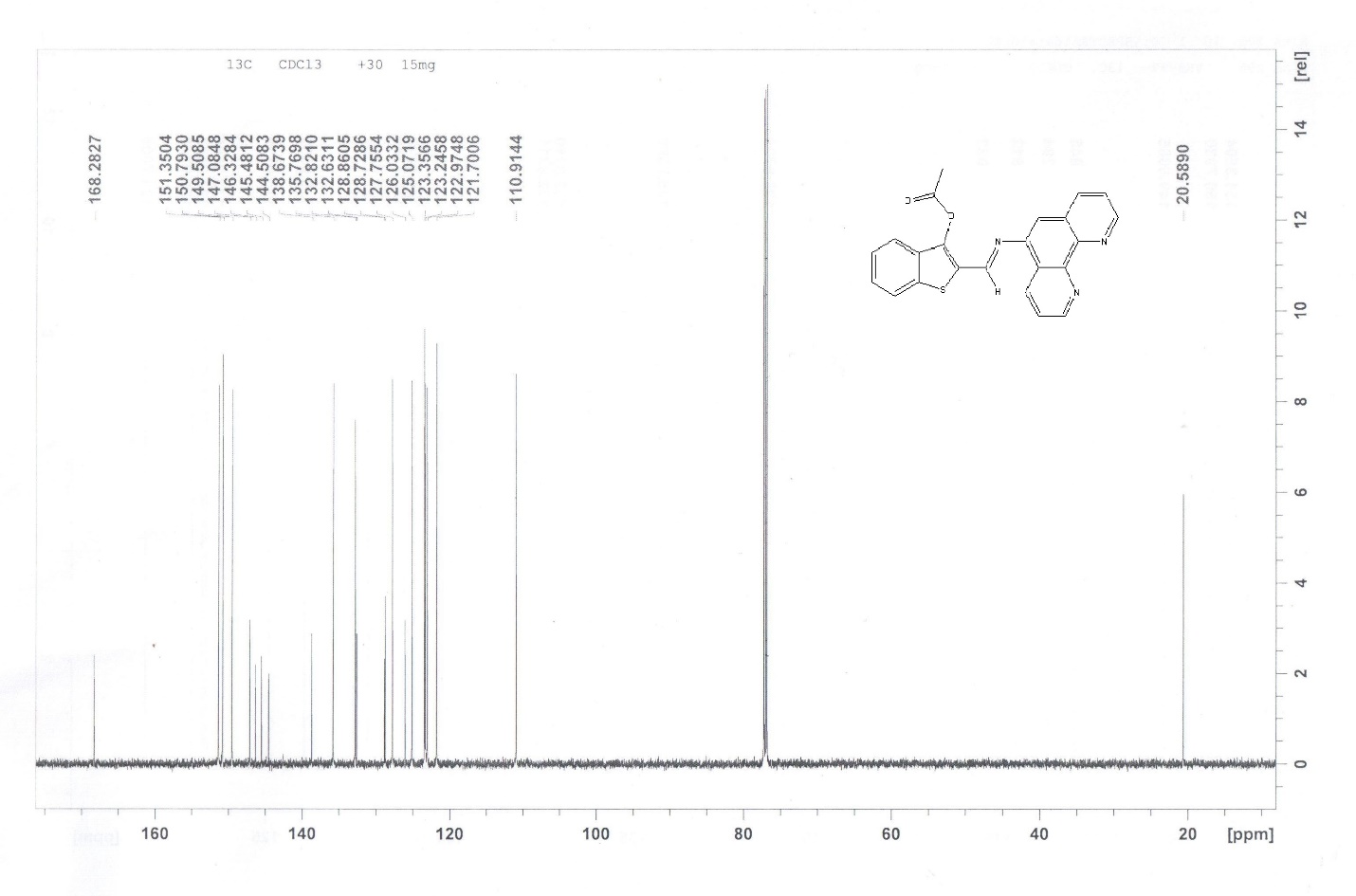
**Fig. S10.** 13C NMRspectrum of compound **2b**in CDCl3.



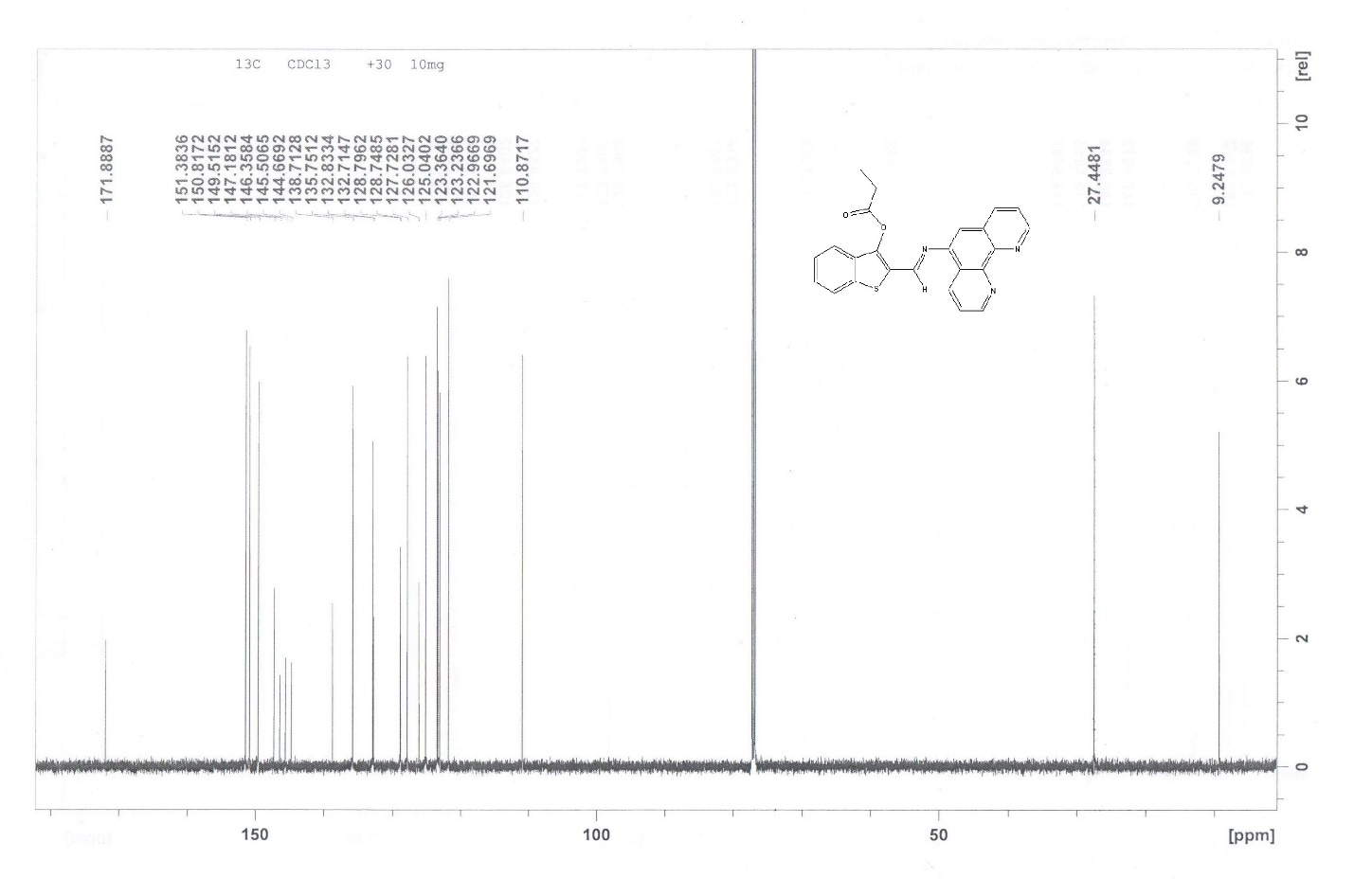
**Fig. S11.** 13C NMRspectrum of compound **2с**in CDCl3.



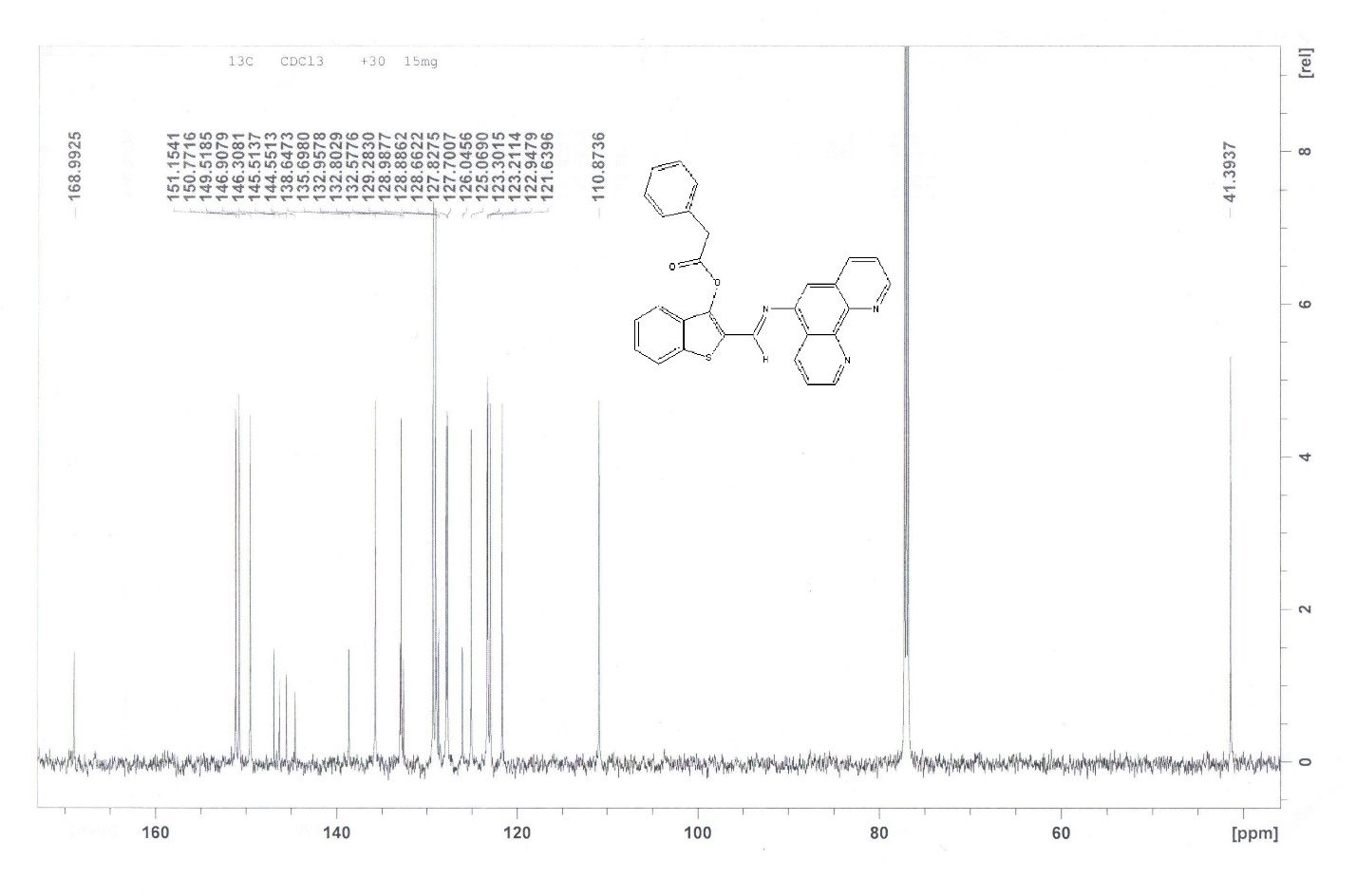
**Fig. S12.** 13C NMRspectrum of compound **3a**in CDCl3.

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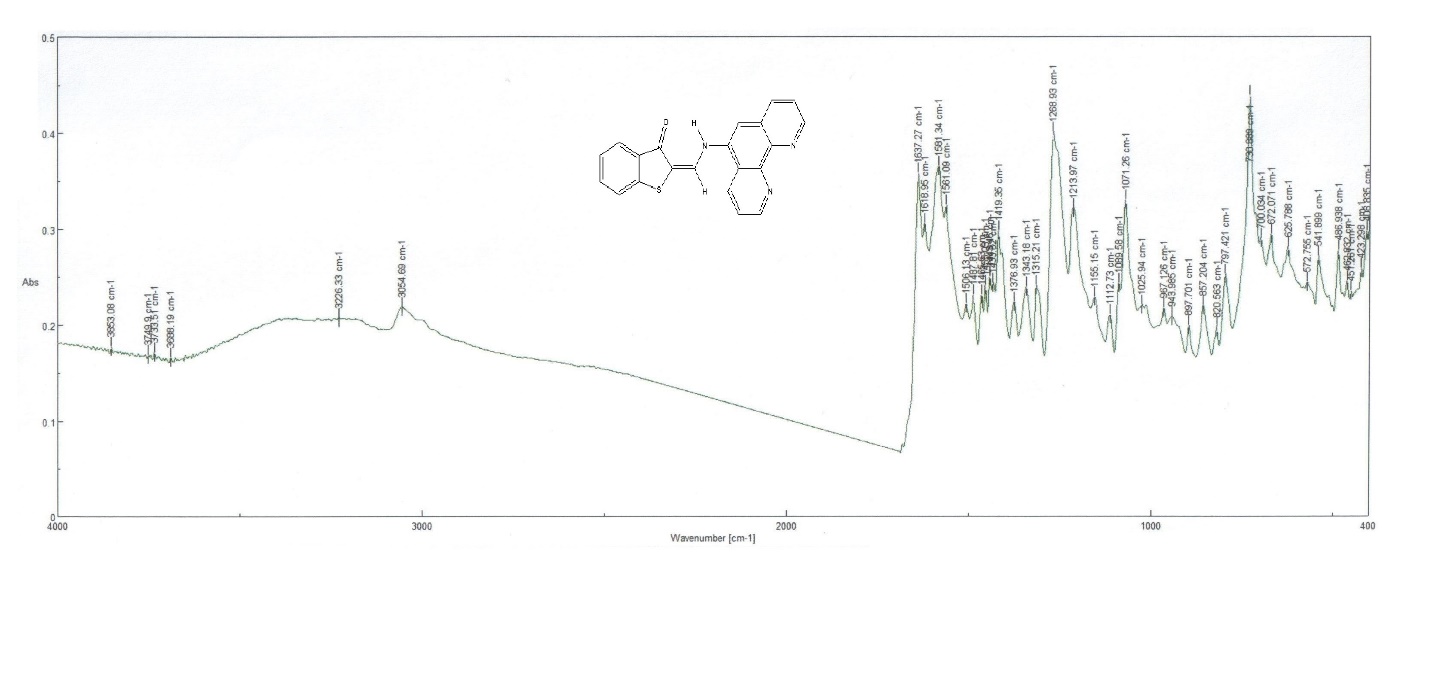
**Fig. S13.** 13C NMRspectrum of compound **3b**in CDCl3.



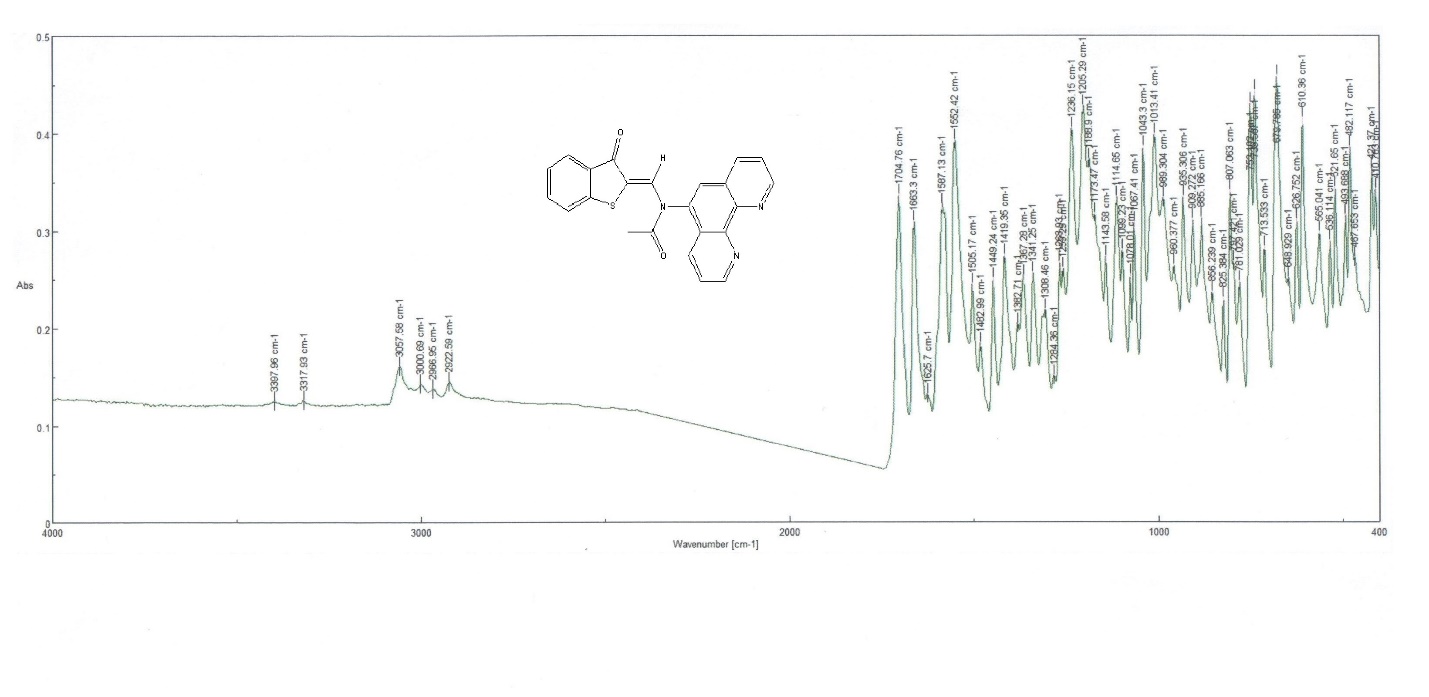
**Fig. S14.** 13C NMRspectrum of compound **3c**in CDCl3.



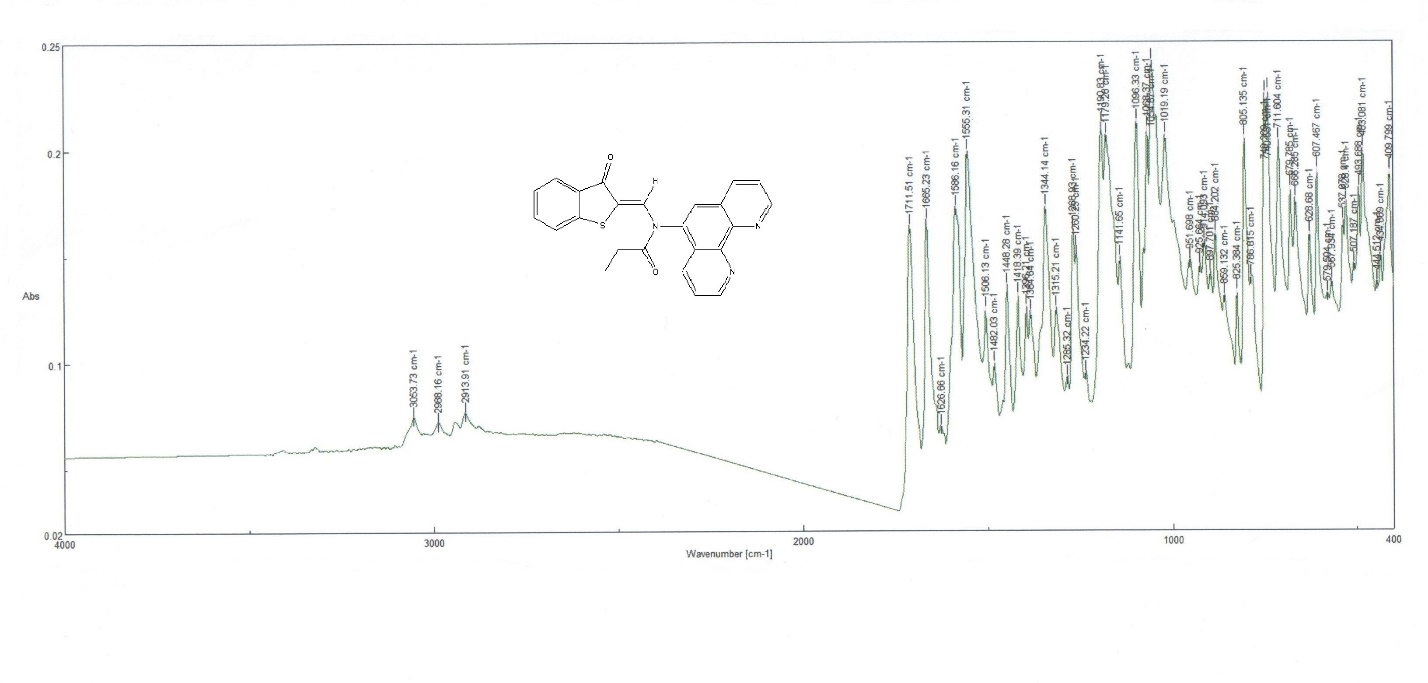
**Figure S15.** IR spectrum of compound **1**.



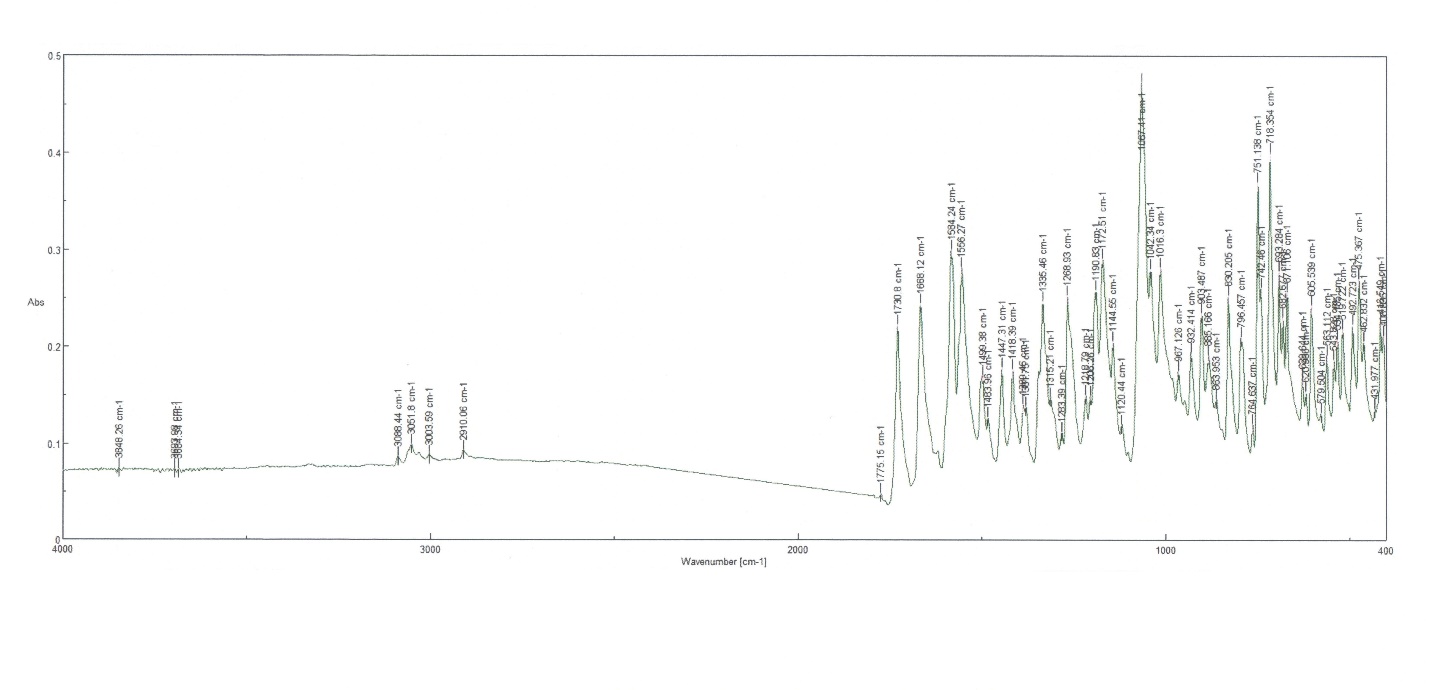
**Figure S16.** IR spectrum of compound **2a**.



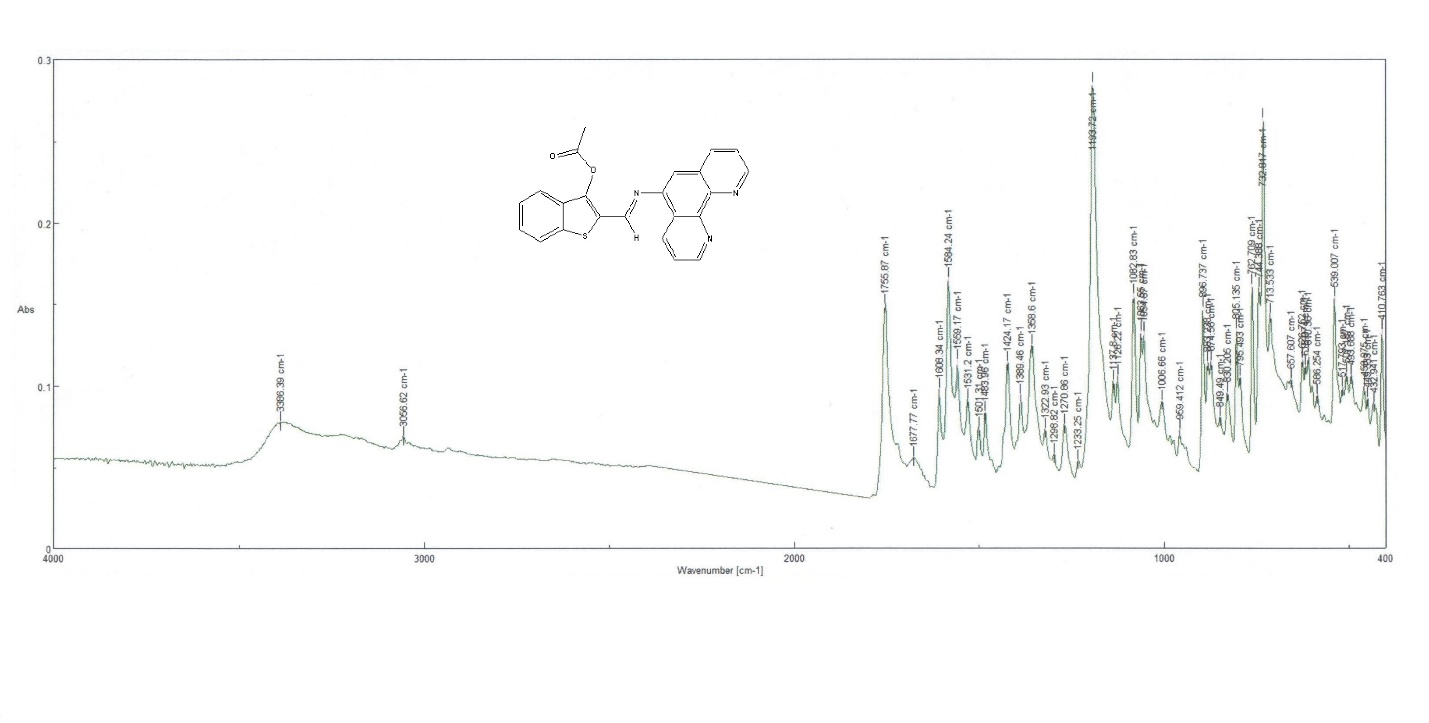
**Figure S17.** IR spectrum of compound **2b**.



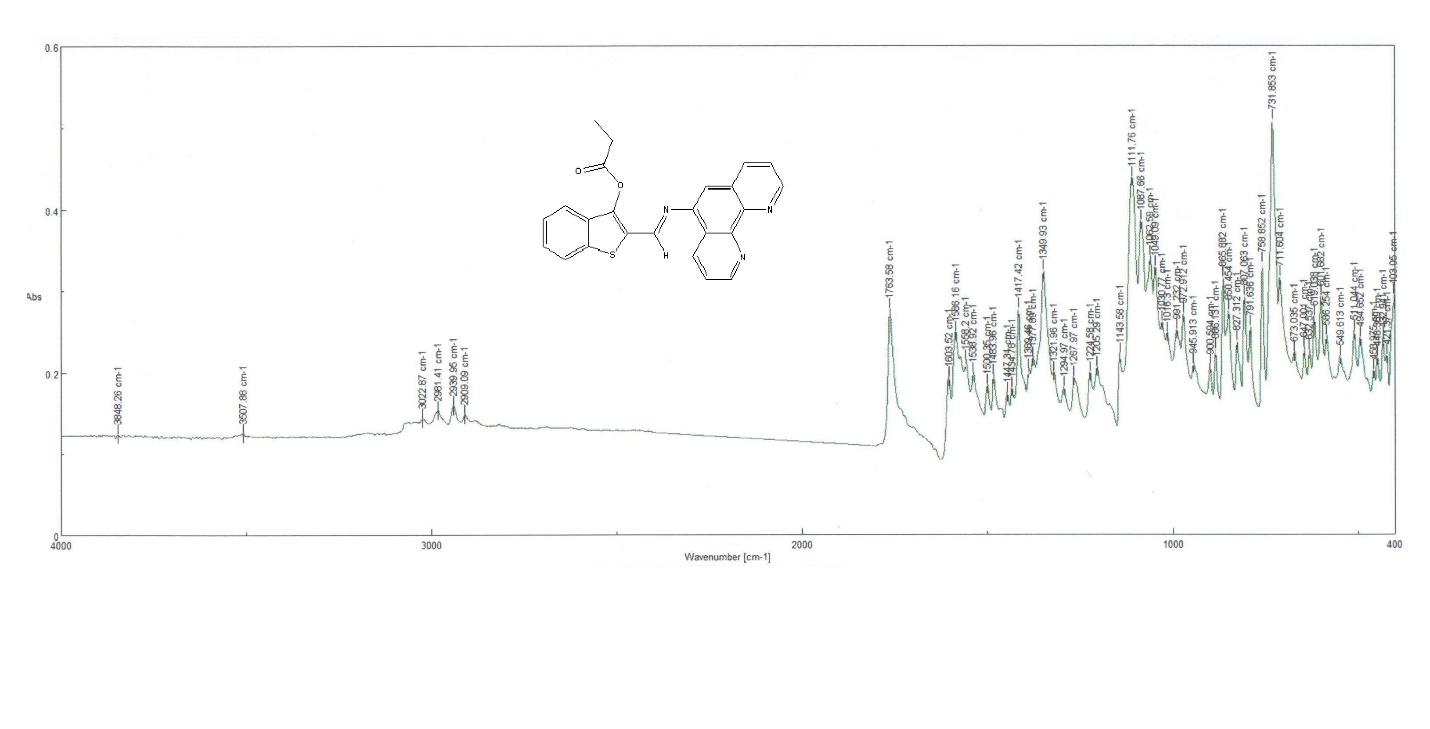
**Figure S18.** IR spectrum of compound **2с**.

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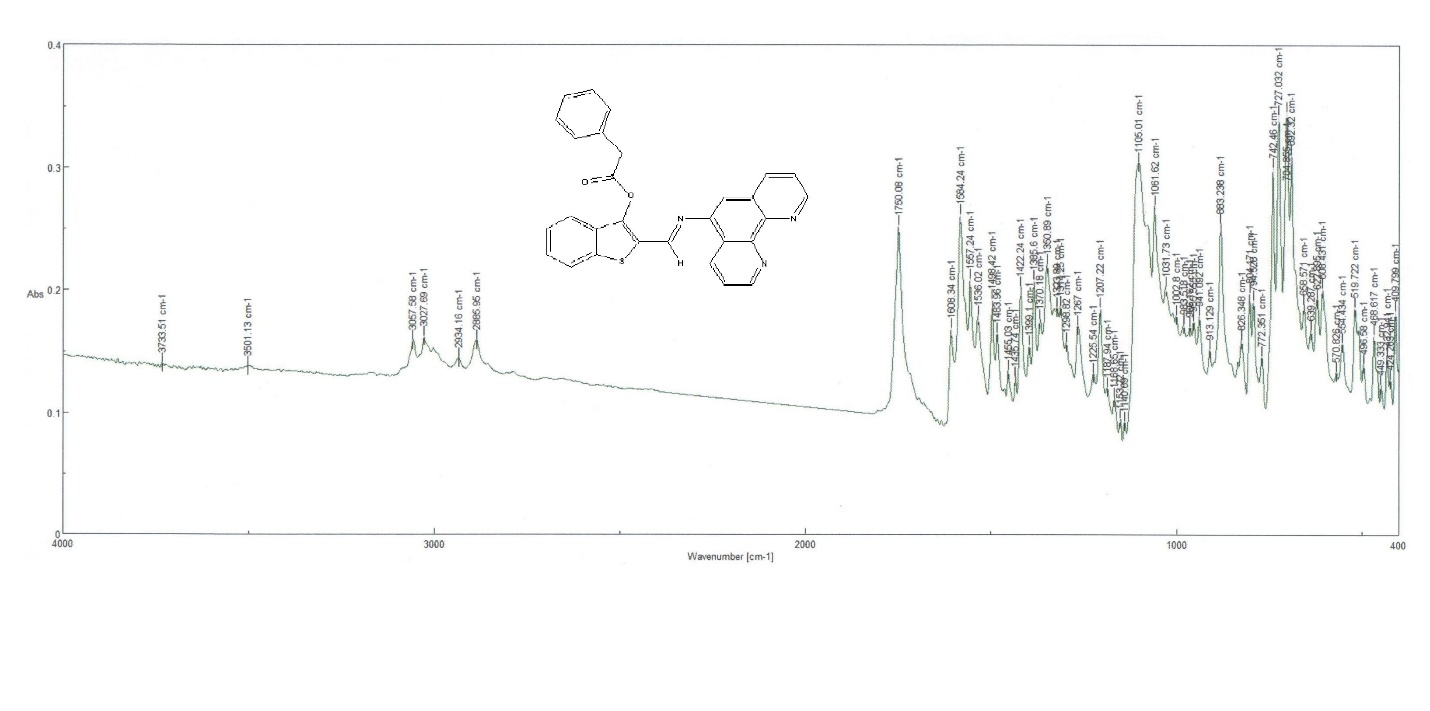
**Figure S19.** IR spectrum of compound **3a**.



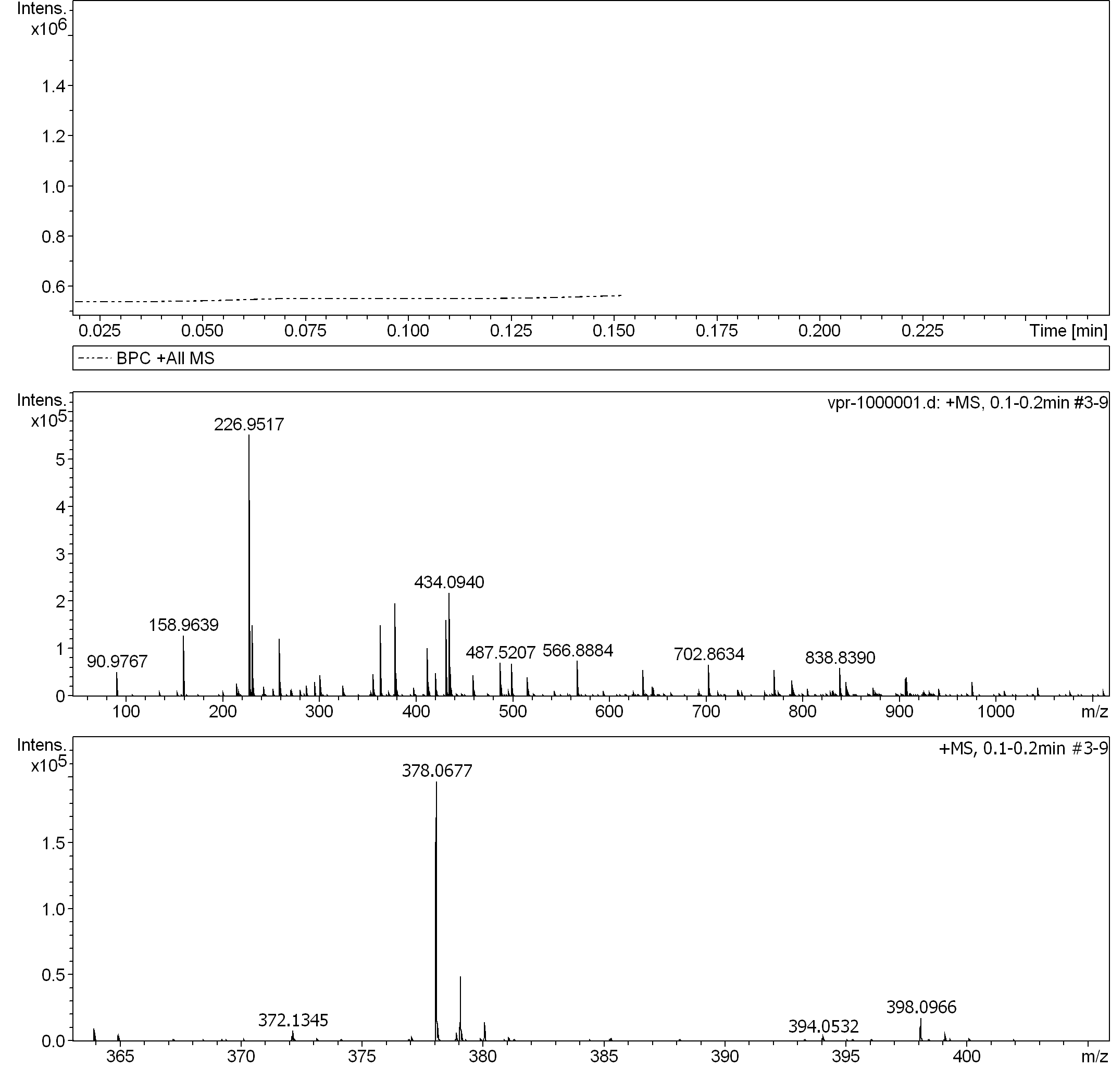
**Figure S20.** IR spectrum of compound **3b**.

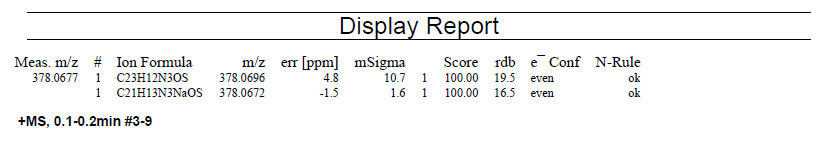


**Figure S21.** IR spectrum of compound **3c**.

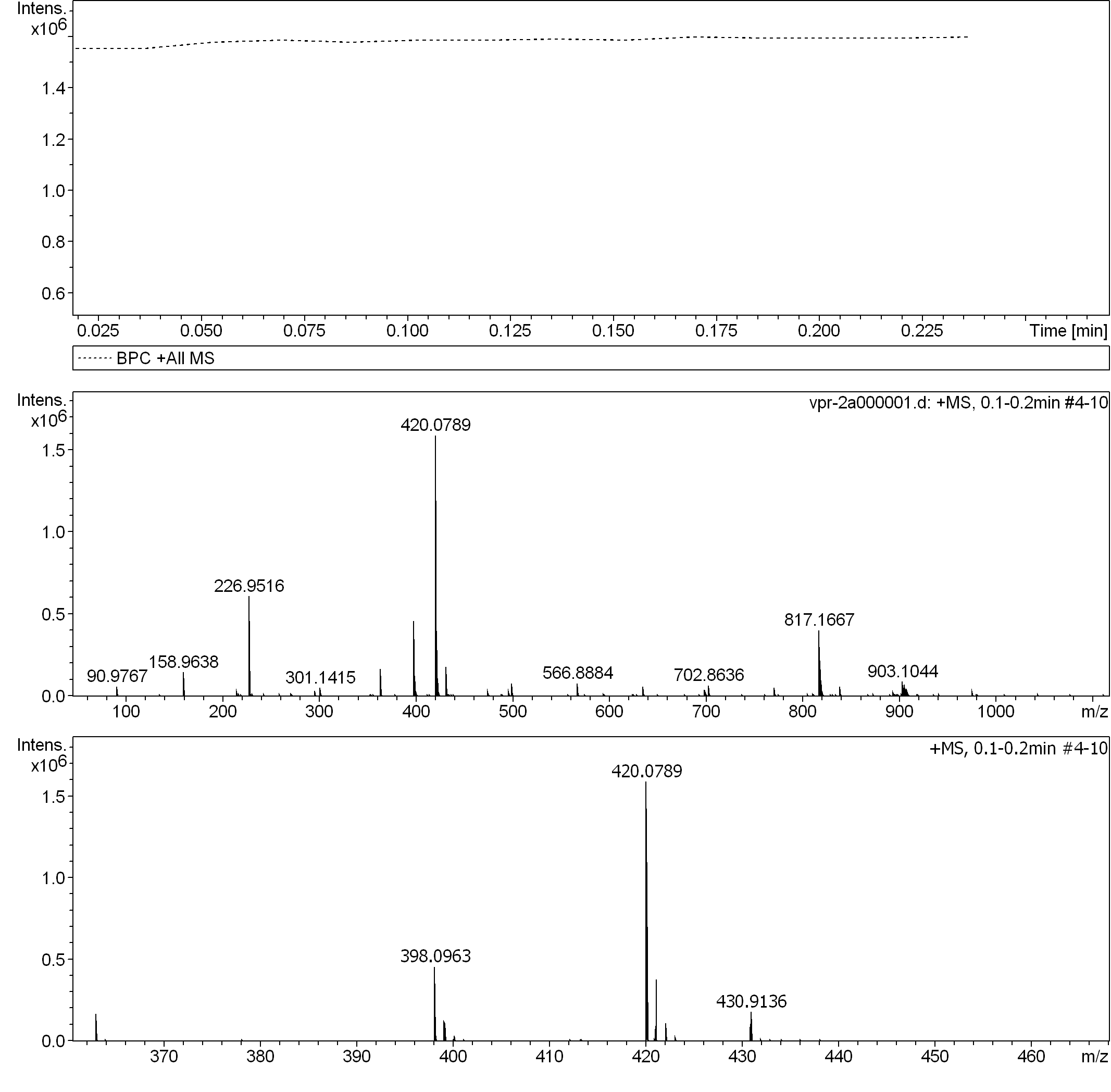


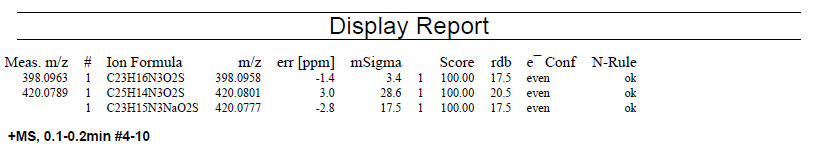
**Figure S22.** Mass spectrum of compound **1**.



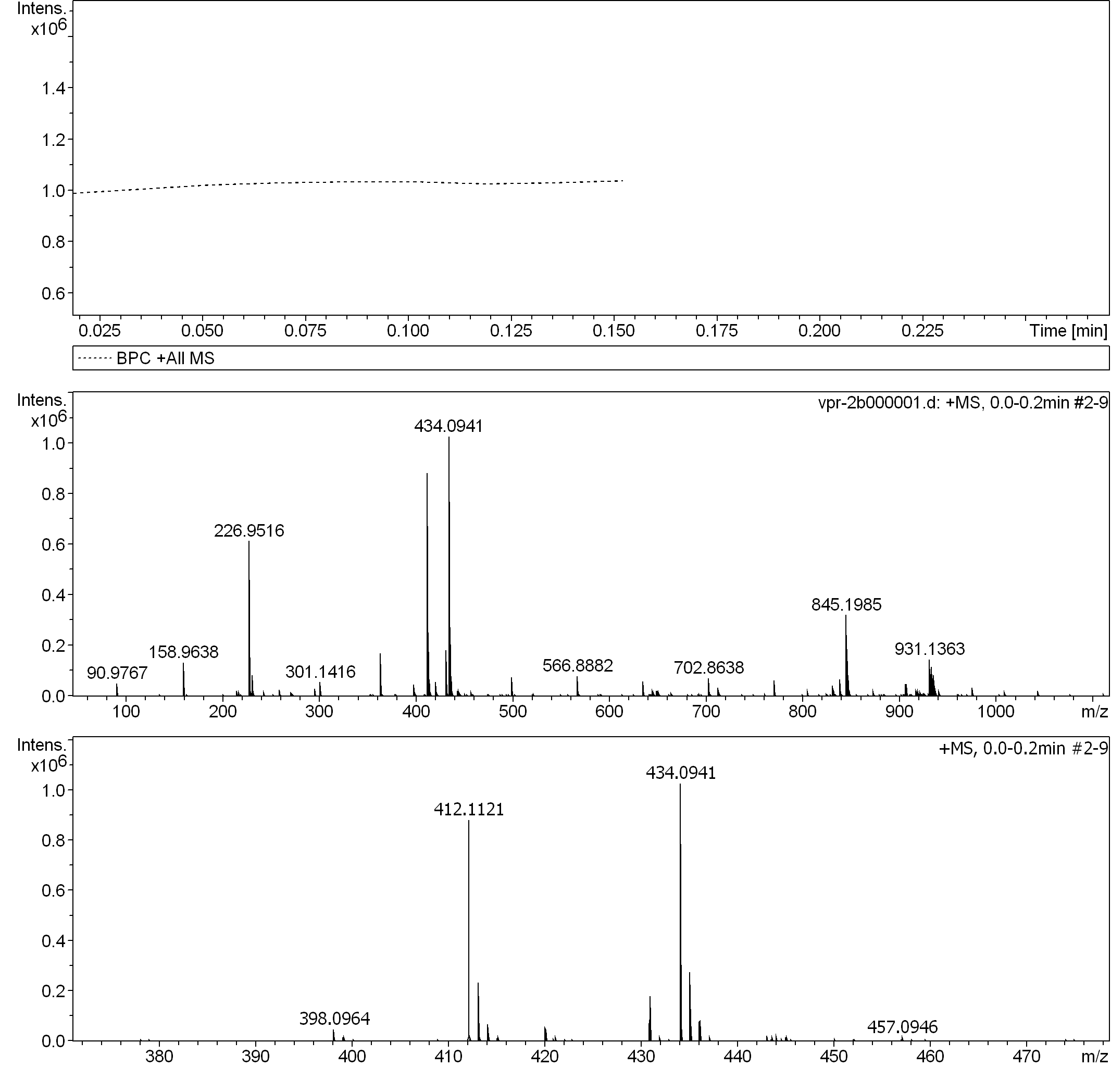
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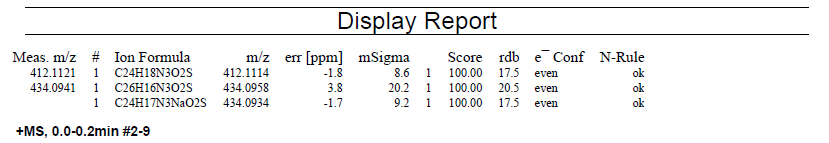
**Figure S23.** Mass spectrum of compound **2a**.



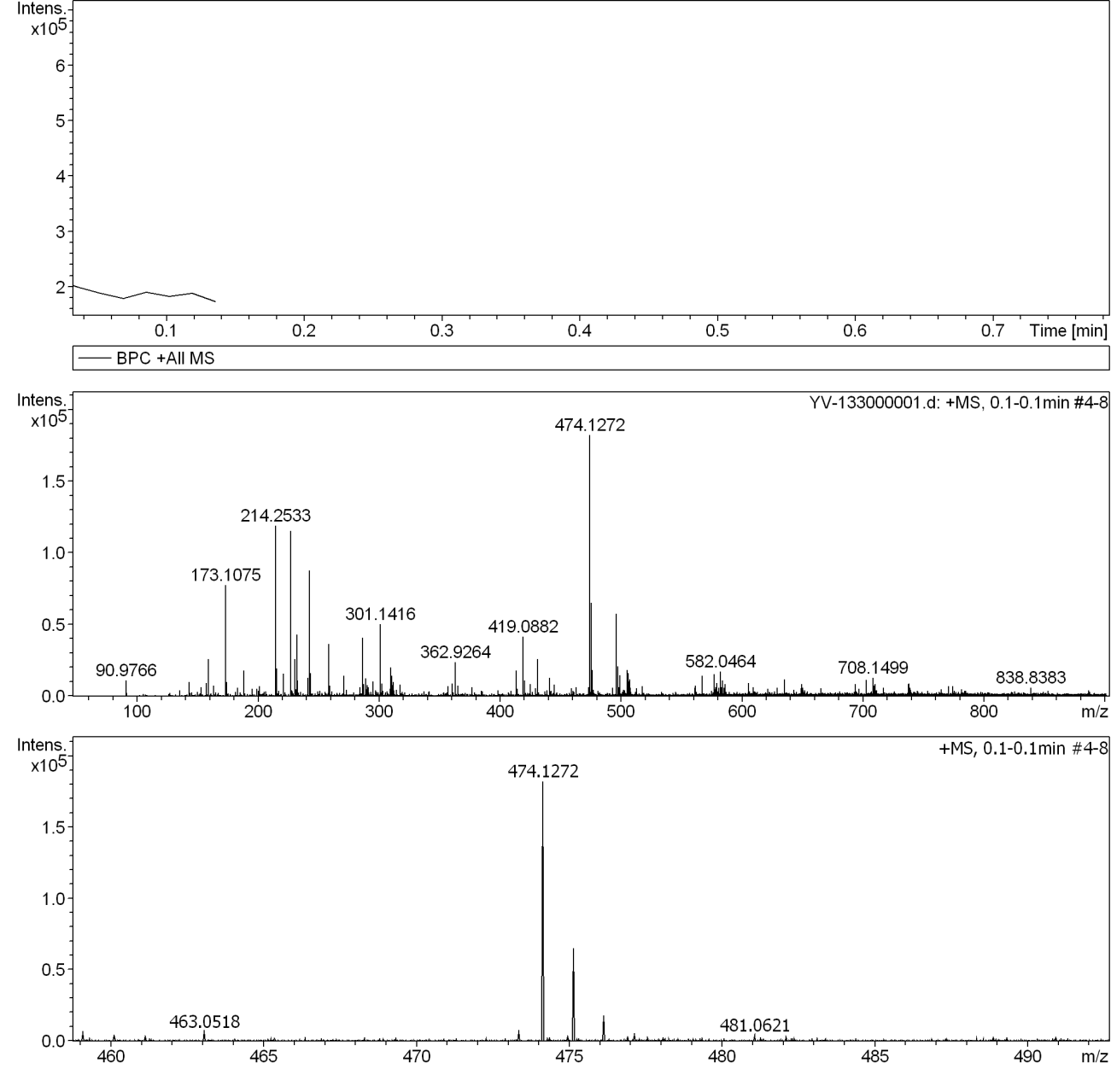


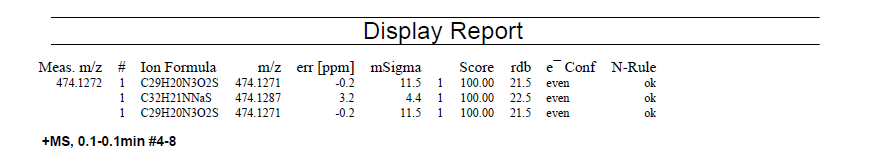
**Figure S24.** Mass spectrum of compound **2b**.



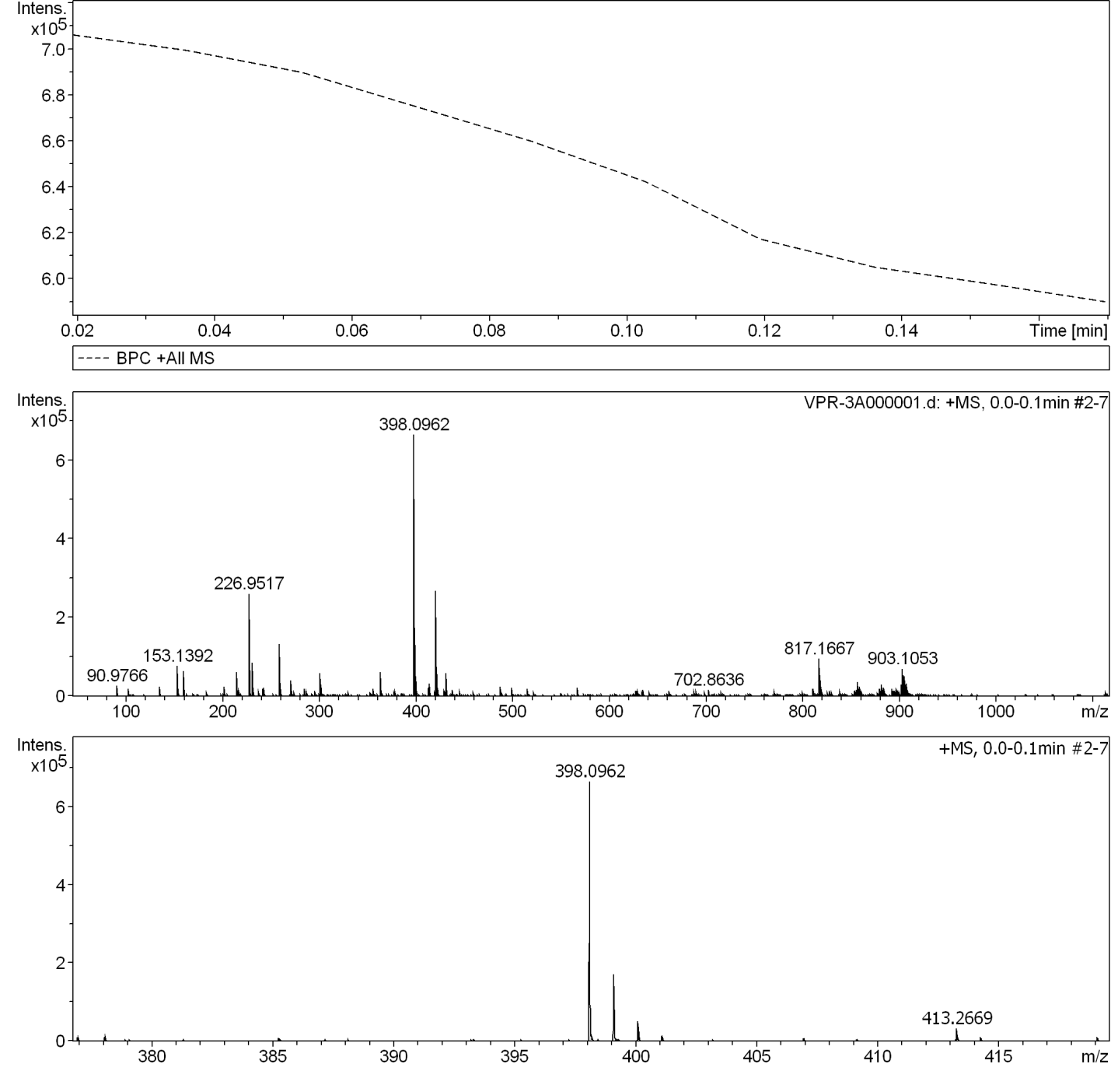


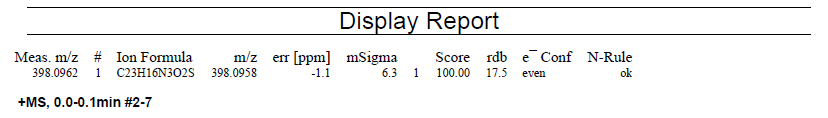
**Figure S25.** Mass spectrum of compound **2с**.



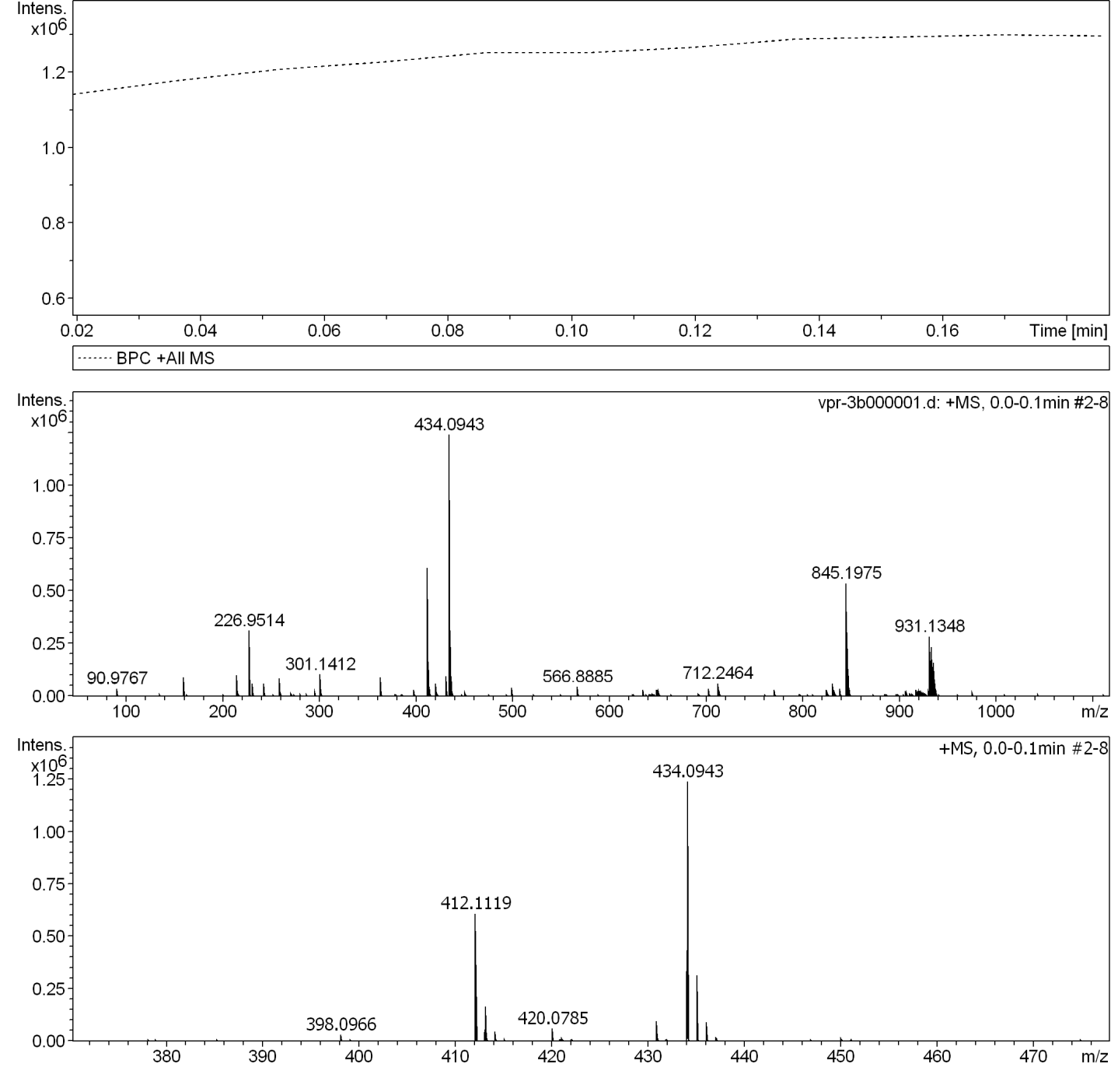


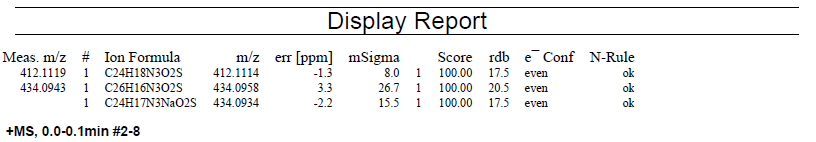
**Figure S26.** Mass spectrum of compound **3a**.





**Figure S27.** Mass spectrum of compound **3b**.





**Figure S28.** Mass spectrum of compound **3c**.

