

Supporting information for

New Fluorescent Chemosensors for Silver Ion

Jongmin Kang,^b Miwhoa Choi,^a Ji Young Kwon,^a Eun Yeol Lee,^c and Juyoung Yoon,^{*a}

^a*Department of New Materials Chemistry, Silla University, Pusan 617-736, Korea*

^b*Department of Applied Chemistry, Sejong University, Seoul 143-747, Korea*

^c*Department of Food Science & Technology, Pusan 608-736, Korea*

Figure S1. ¹H NMR (500 MHz, CDCl₃) spectrum of compound **1**.

Figure S2. ¹³C NMR (125 MHz, CDCl₃) spectrum of compound **1**.

Figure S3. ¹H NMR (500 MHz, CDCl₃) spectrum of compound **2**.

Figure S4. ¹³C NMR (125 MHz, CDCl₃) spectrum of compound **2**.

Figure S5. Partial ¹H NMR spectra (500 MHz) of compound **1** upon the addition of silver picrate (1.1 eq.) in CDCl₃-CD₃OD (4:1, v/v) [(a) compound **1** only, (b) **1** + Ag(I) picrate].

Table I. Changes of compound **1** in its chemical shifts upon the addition of silver picrate (1.1 eq.) in CDCl₃-CD₃OD (4:1, v/v) [¹H NMR spectra (500 MHz)].

Figure S6. Partial ¹H NMR spectra (500 MHz) of compound **2** upon the addition of silver picrate (1.1 eq.) in CDCl₃-CD₃OD (4:1, v/v) [(a) compound **2** only, (b) **2** + Ag(I) picrate].

Table II. Changes of compound **2** in its chemical shifts upon the addition of silver picrate (1.1 eq.) in CDCl₃-CD₃OD (4:1, v/v) [¹H NMR spectra (500 MHz)].

Figure S1. ^1H NMR (500 MHz, CDCl_3) spectrum of compound **1**.

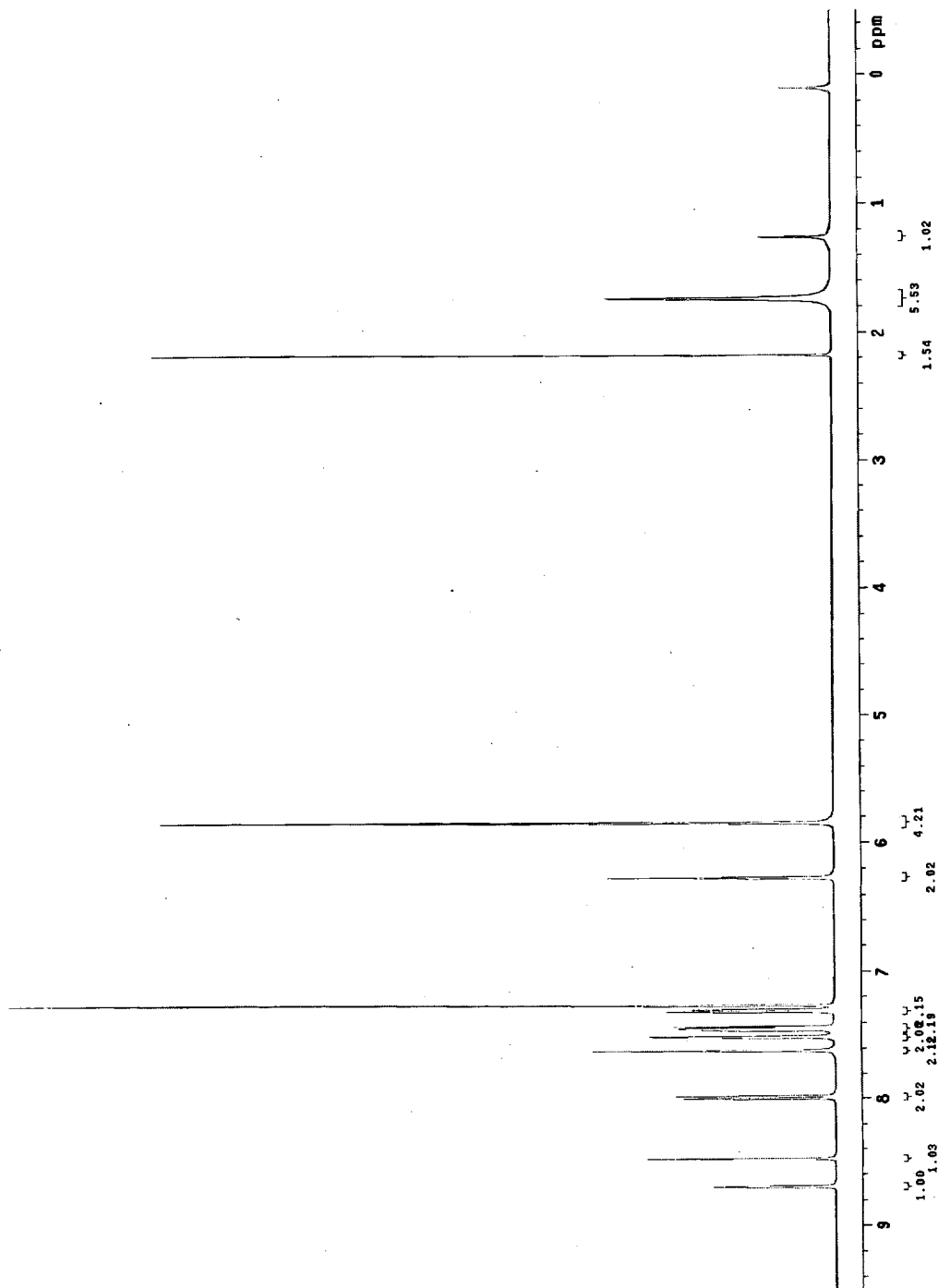


Figure S2. ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound **1**.

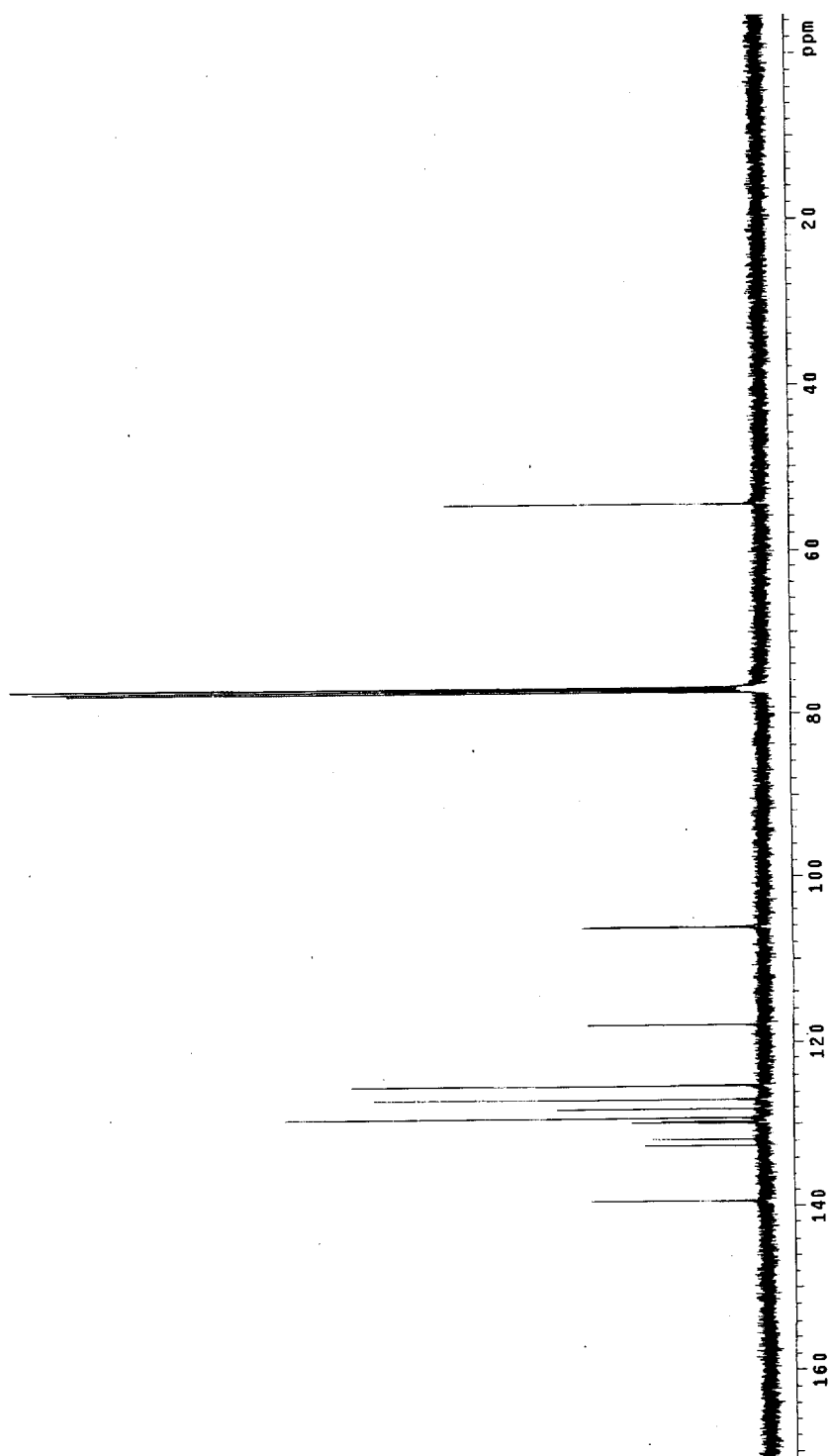


Figure S3. (a) ^1H NMR (500 MHz, CDCl_3) spectrum of compound **2**.

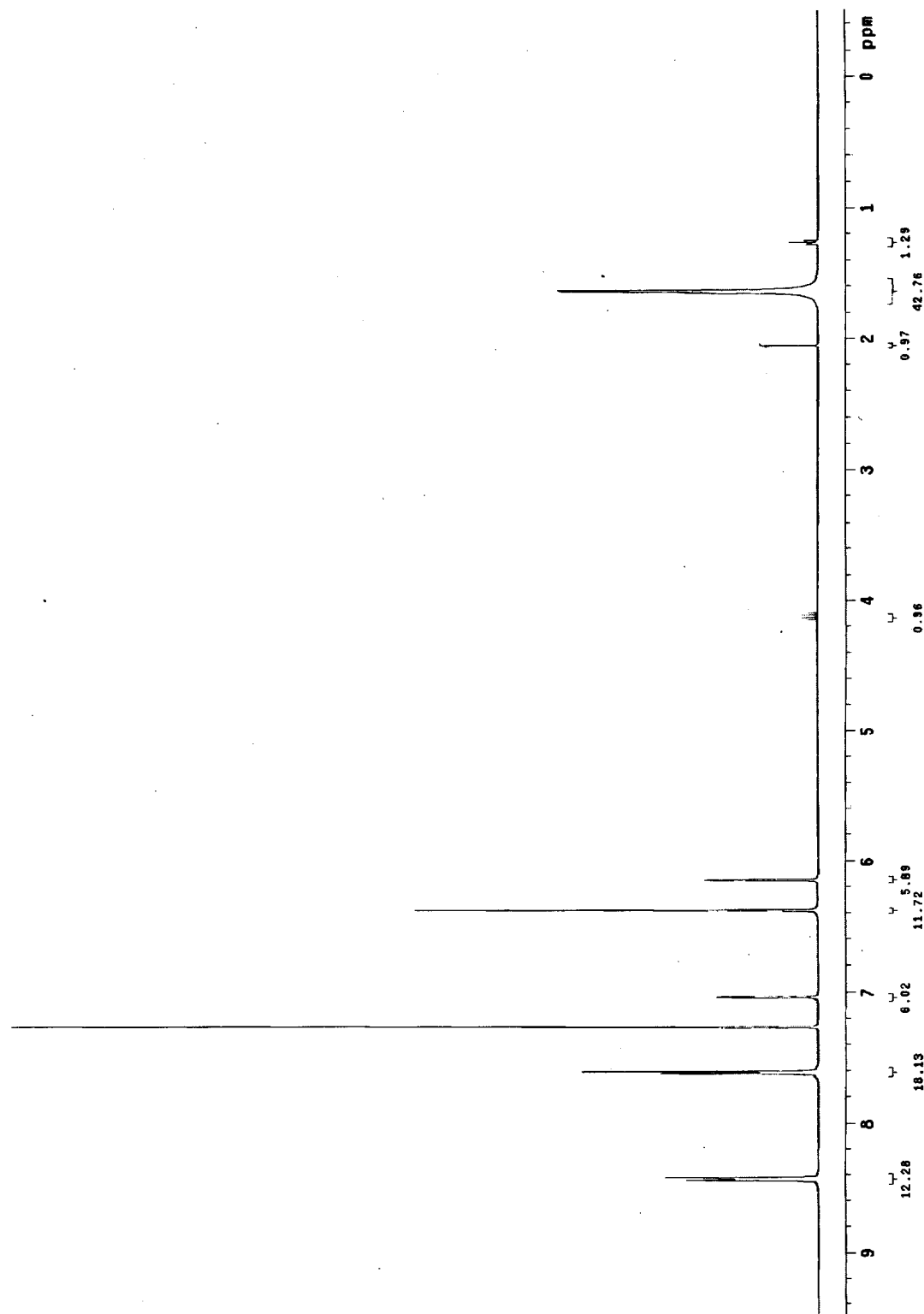
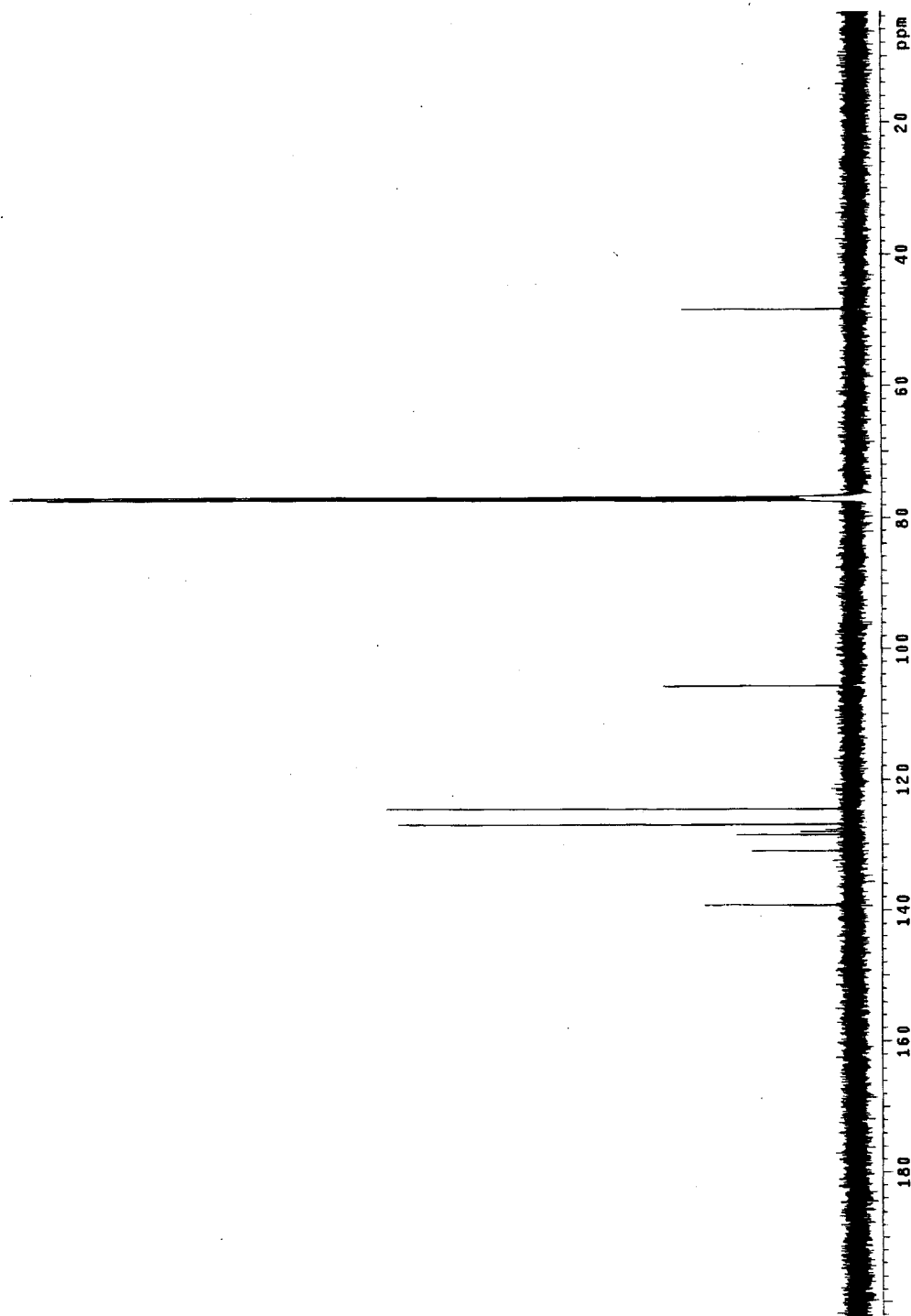


Figure S4. ^{13}C NMR (125 MHz, CDCl_3) spectrum of compound 2.



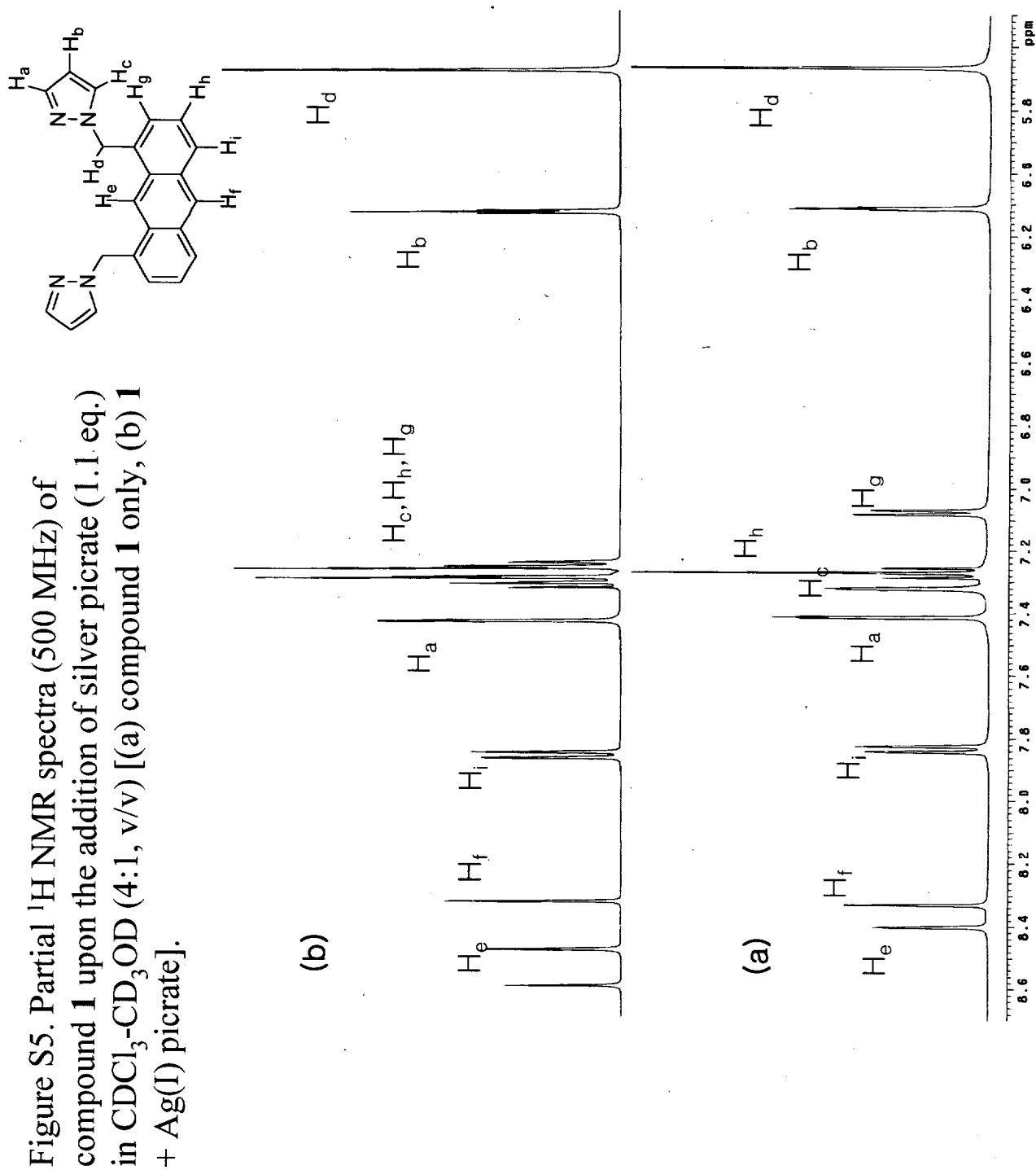
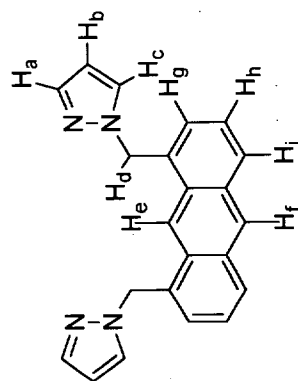


Table S1. Changes of compound **1** in its chemical shifts upon the addition of silver picrate (1.1 eq.) in CDCl₃-CD₃OD (4:1, v/v) [¹H NMR spectra (500 MHz)].



	H _a	H _b	H _c	H _d	H _e	H _f	H _g	H _h	H _i
1	7.41	6.11	7.32	5.66	8.40	8.33	7.07	7.27	7.83
1 + Ag ⁺	7.30	6.13	7.44	5.68	8.49	8.33	7.25	7.32	7.86
Δδ	-0.11	0.02	0.12	0.02	0.09	0	0.18	0.05	0.03

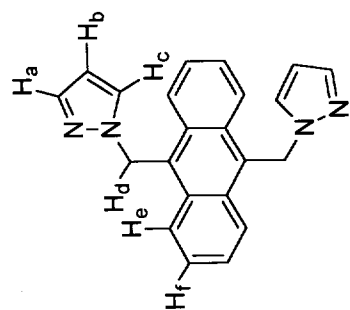


Figure S6. Partial ^1H NMR spectra (500 MHz) of compound **2** upon the addition of silver picrate (1.1 eq.) in $\text{CDCl}_3\text{-CD}_3\text{OD}$ (4:1, v/v) [(a) compound **2** only, (b) **2** + Ag(I) picrate].

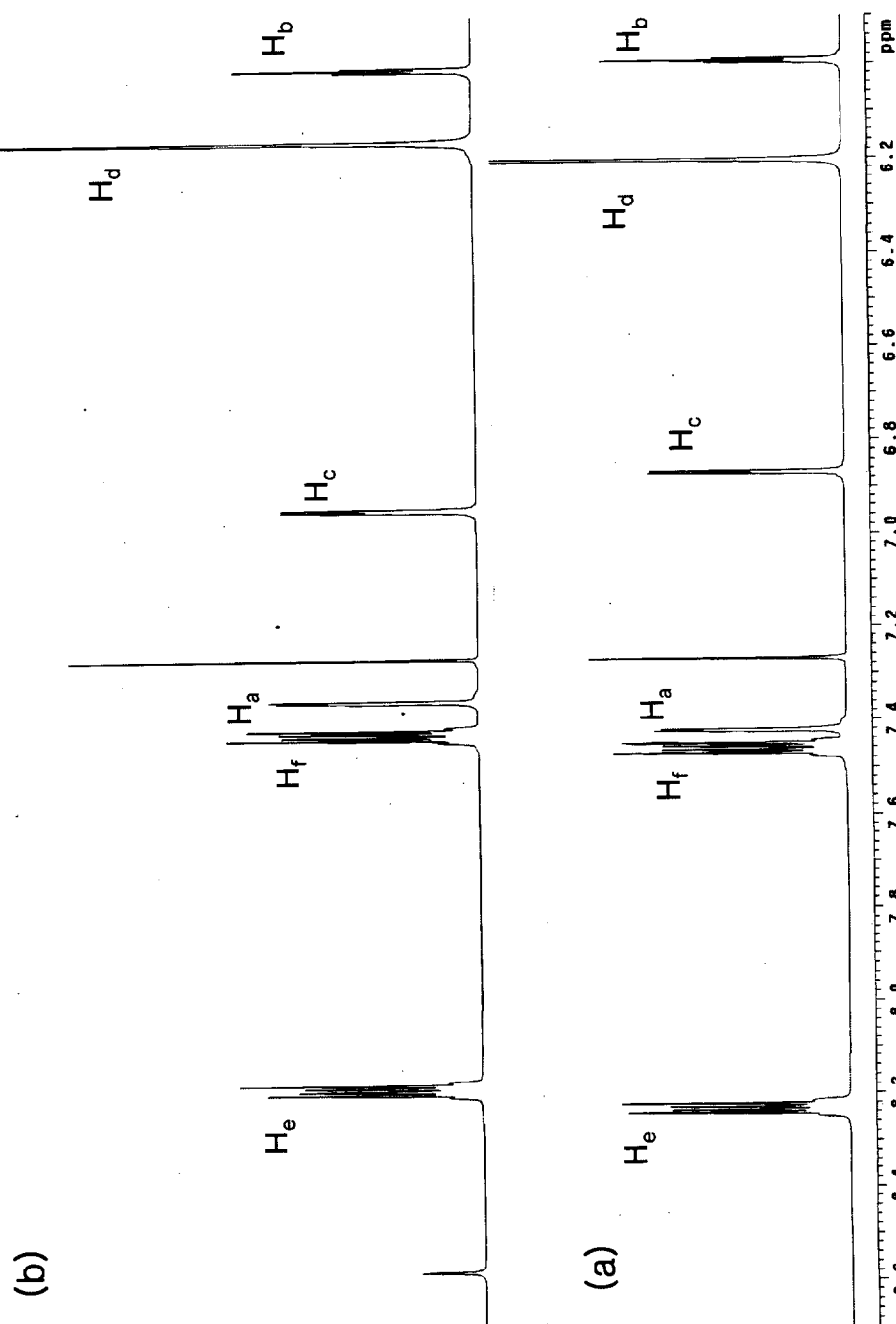
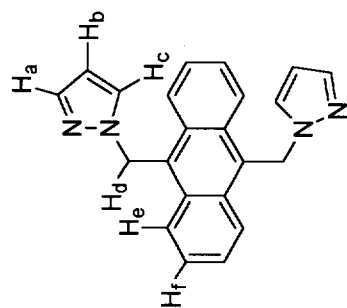


Table SII. Changes of compound **2** in its chemical shifts upon the addition of silver picrate (1.1 eq.) in CDCl₃-CD₃OD (4:1, v/v) [¹H NMR spectra (500 MHz)].



	H _a	H _b	H _c	H _d	H _e	H _f
2	7.42	5.99	6.87	6.20	8.23	7.45
2 + Ag⁺	7.36	6.01	6.95	6.16	8.19	7.43
$\Delta\delta$	-0.06	0.02	0.08	-0.04	-0.04	-0.02