

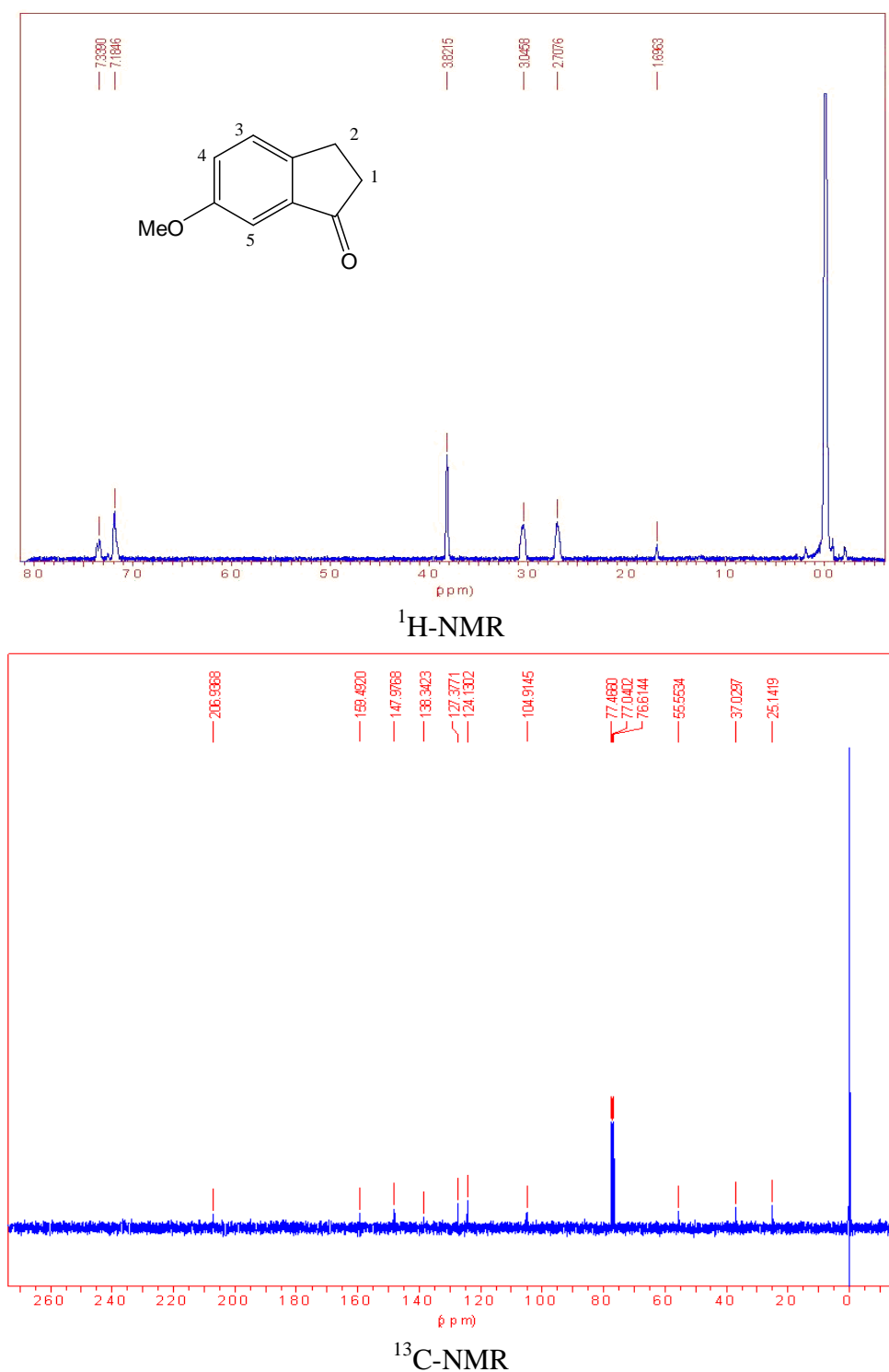
Supplementary Material

¹H- and ¹³C-NMR Spectra of 1a

6-Methoxy-2,3-dihydro-1H-inden-1-one (1a)

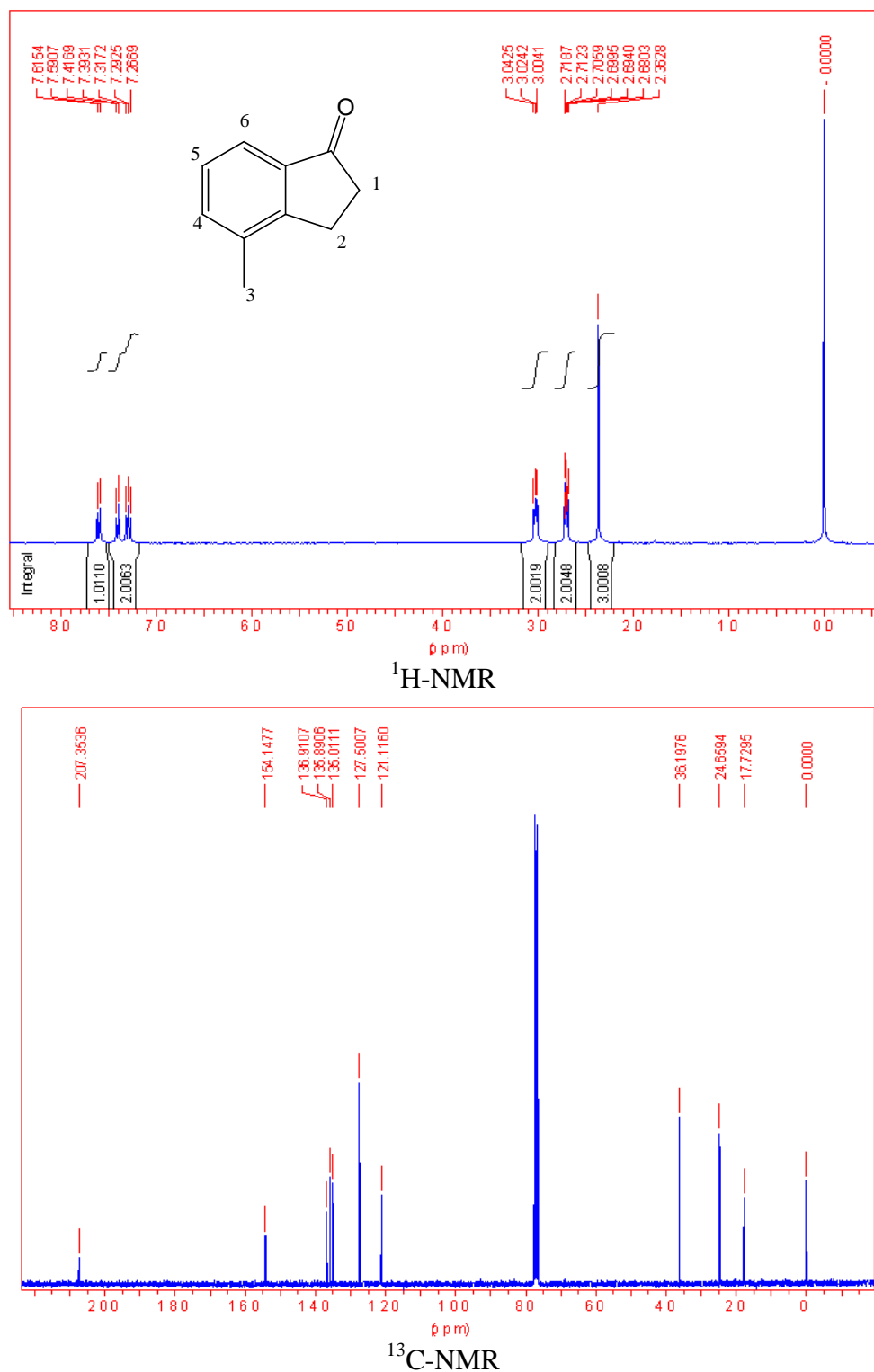
¹H-NMR δ (ppm) (300 MHz, CDCl₃): 2.6–2.8 (m, 2H₁), 3.0–3.1 (m, 2H₂), 3.8 (s, 3H, OMe), 7.1–7.2 (m, 1H₃), 7.3–7.4 (m, 2H_{4,5}); ¹³C-NMR (300 MHz, CDCl₃): δ 205, 160, 148, 139, 126, 125, 105, 55, 37, 25.

Figure S1. ¹H- and ¹³C-NMR Spectra of 6-Methoxy-2,3-dihydro-1H-inden-1-one (1a).



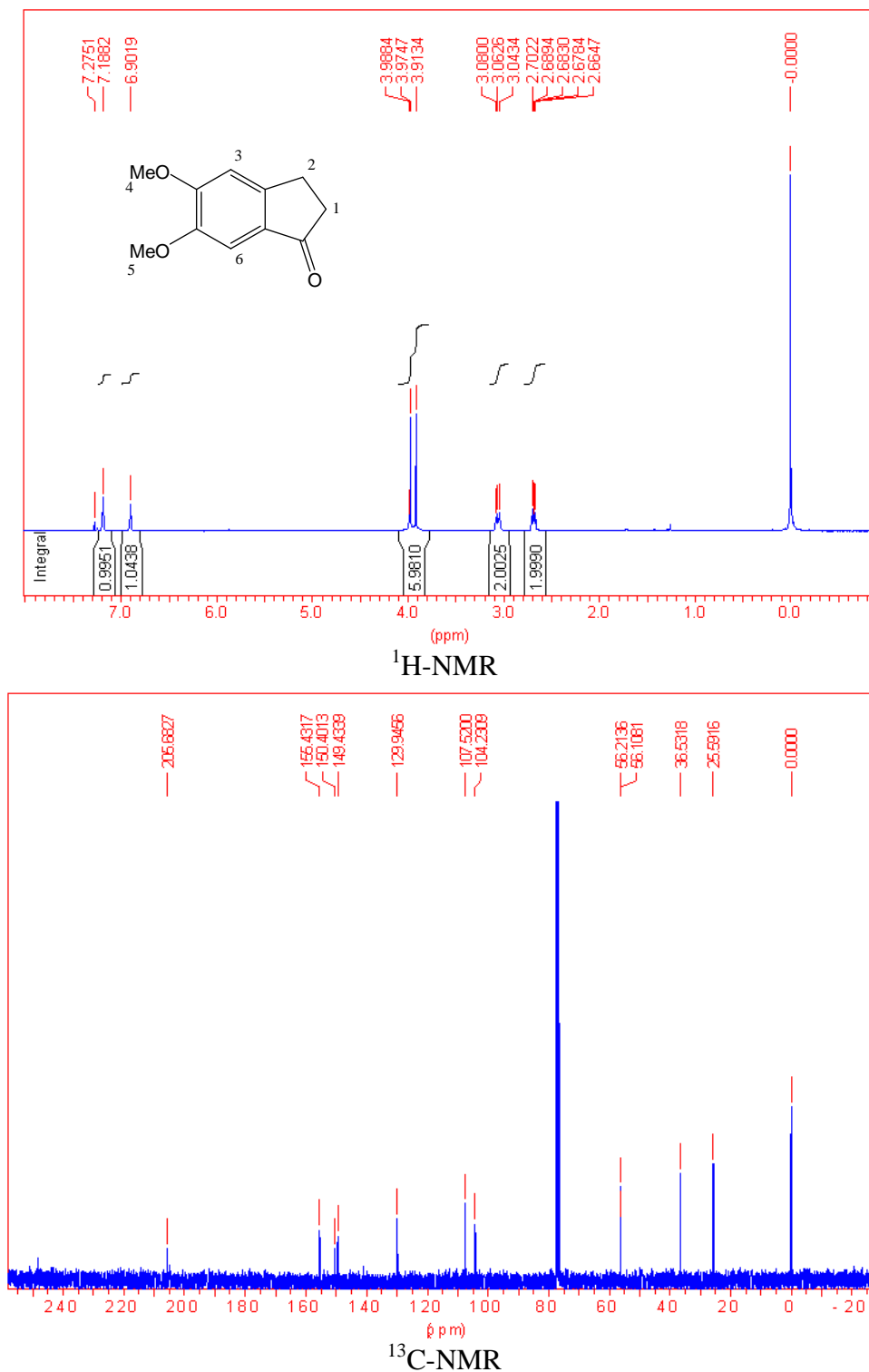
^1H - and ^{13}C -NMR Spectra of 4a*4-Methyl-2,3-dihydro-1H-inden-1-one (4a)*

^1H -NMR δ (ppm) (300 MHz, CDCl_3): 2.36 (s, 3H₃), 2.67–2.73 (m, 2H₁) 3.02 (t, 2H₂, $J = 6\text{Hz}$), 7.29 (t, 1H₅, $J = 7\text{Hz}$), 7.40 (d, 1H₄, $J = 7\text{Hz}$), 7.60 (d, 1H₆, $J = 7\text{Hz}$). ^{13}C -NMR (300 MHz, CDCl_3): δ 207.4, 154.1, 136.9, 135.9, 135.0, 127.5, 121.1, 36.2, 24.6, 17.7.

Figure S2. ^1H - and ^{13}C -NMR Spectra of 4-Methyl-2,3-dihydro-1H-inden-1-one (**4a**).

¹H- and ¹³C-NMR spectra of 5a*5,6-dimethoxy-2,3-dihydro-1H-inden-1-one (5a)*

¹H-NMR δ (ppm) (300 MHz, CDCl₃): 2.68 (m, 2H₁), 3.06 (t, 2H₂, *J* = 6Hz), 3.91 (s, 3H₄), 3.98 (s, 3H₅), 6.90 (s, 1H₃), 7.19 (s, 1H₆). ¹³C-NMR (300 MHz, CDCl₃): δ 205.7, 155.4, 150.4, 149.4, 129.9, 107.5, 104.2, 56.2, 56.1, 36.5, 25.6.

Figure S3. ¹H- and ¹³C-NMR spectra of 5,6-dimethoxy-2,3-dihydro-1H-inden-1-one (**5a**).

¹H- and ¹³C-NMR Spectra of 9a*2,3-dihydro-1H-inden-1-one (9a)*

¹H-NMR δ (ppm) (300 MHz, CDCl₃): 2.69 (m, 2H₁), 3.15 (t, 2H₂, $J = 6$ Hz), 7.37 (m, 1H₅); 7.48 (m, 1H₃), 7.60 (m, 1H₄), 7.76 (m, 1H₆). ¹³C-NMR (300 MHz, CDCl₃): δ 207.1, 155.2, 137.1, 134.6, 127.3, 126.7, 123.7, 36.2, 25.8.

Figure S4. ¹H- and ¹³C-NMR Spectra of 2,3-dihydro-1H-inden-1-one (**9a**).