# Supplementary Information

## Application of an Ionic Liquid in the Microwave Assisted Extraction of Cytotoxic Metabolites from Fruits of *Schinus terebinthifolius* Raddi (Anacardiaceae)

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**Table S1.** $^{1}H$ and $^{13}C$ NMR data of compounds **1**, **2** and **3** ($\delta$ in ppm, 300 and 75 MHz, $CDCl_3$)

| | **1** | | **2** | | **3** | |
|---|---|---|---|---|---|---|
| Position | $\delta_H$ (multiplicity, *J*, Hz) | $\delta_C$ | $\delta_H$ (multiplicity, *J*, Hz) | $\delta_C$ | $\delta_H$ (multiplicity, *J*, Hz) | $\delta_C$ |
| 1 | 1.41 (m) | 38.5 | 1.46 (m) | 36.1 | 1.48 (m) | 36.0 |
| 2 | 2.23 (m)<br>2.77<br>(td, 15.1 and 6.0) | 35.0 | 2.04 (m) | 36.4 | 1.59 (m) | 24.2 |
| 3 | – | 217.1 | 3.46<br>(dd, 10.2 and 5.4) | 76.4 | 4.54<br>(dd, 10.5 and 4.5) | 81.1 |
| 4 | – | 47.9 | – | 37.4 | – | 37.8 |
| 5 | 2.27 (m) | 48.6 | 1.91 (m) | 44.5 | 1.90 (m) | 50.7 |
| 6 | 2.09 (m) | 24.5 | 1.91 (m) | 24.3 | 1.98 (m) | 23.7 |
| 7 | 5.30 (t, 3.0) | 117.8 | 5.28 (m) | 117.8 | 5.26 (br s) | 117.7 |
| 8 | – | 146.1 | – | 147.0 | – | 145.7 |
| 9 | 1.90 (m) | 38.5 | 2.50 (m) | 48.6 | 2.31 (m) | 50.7 |
| 10 | – | 35.7 | – | 35.6 | – | 34.8 |
| 11 | 0.89 (m) | 18.2 | 1.56 (m) | 18.5 | 1.54 (m) | 18.2 |
| 12 | 1.50 (m) | 34.1 | 1.59 (m) | 34.7 | 1.54 (m) | 33.9 |
| 13 | – | 43.5 | – | 43.9 | – | 43.5 |
| 14 | – | 51.2 | – | 51.6 | – | 51.2 |
| 15 | 1.52 (m) | 35.7 | 1.43 (m) | 34.0 | 1.53 (m) | 34.6 |
| 16 | 1.97 (m) | 28.2 | 1.97 (m) | 28.2 | 1.70 (m) | 28.2 |
| 17 | 1.47 (m) | 52.9 | 1.42 (m) | 53.3 | 1.44 (m) | 52.8 |
| 18 | 0.87 (s) | 18.3 | 0.83 (s) | 21.37 | 0.93 (s) | 21.8 |
| 19 | 0.77 (s) | 13.0 | 0.77 (s) | 13.0 | 0.77 (s) | 13.1 |
| 20 | 1.54 (m) | 36.1 | 1.39 (m) | 36.1 | 1.42 (m) | 36.8 |
| 21 | 0.88 (d, 6.0) | 18.0 | 0.89 (d, 6.0) | 18.7 | 0.86 (m) | 18.2 |
| 22 | 1.57 (m) | 33.8 | 1.37 (m) | 36.1 | 1.42 (m) | 36.0 |
| 23 | 2.56 (m) | 26.9 | 2.46 (m) | 26.9 | 1.87 (m) | 27.0 |
| 24 | 6.02 (t, 6.0) | 146.1 | 6.07 (t, 6.3) | 146.1 | 6.90 (m) | 146.0 |
| 25 | – | 126.5 | – | 125.7 | – | 126.6 |
| 26 | 1.90 (s) | 20.6 | 2.05 (s) | 20.6 | 1.84 (s) | 171.0 |
| 27 | – | 173.4 | – | 172.4 | – | 11.9 |
| 28 | 1.12 (s) | 27.4 | 0.93 (s) | 28.2 | 0.85 (s) | 27.2 |
| 29 | 1.00 (s) | 27.3 | 0.90 (s) | 22.5 | 0.93 (s) | 21.4 |
| 30 | 1.05 (s) | 25.4 | 1.95 (s) | 27.4 | 0.97 (s) | 21.8 |
| C=O | – | – | – | – | – | 171.0 |
| $CH_3$ | – | – | – | – | 2.07 (s) | 21.0 |

**Table S2.** $^{1}H$ and $^{13}C$ NMR data of compounds **4** and **5** ($\delta$ in ppm, 300 and 75 MHz, $CD_3OD$)

| | **4** | | **5** | |
|---|---|---|---|---|
| Position | $\delta_H$ (multiplicity) | $\delta_C$ | $\delta_H$ (multiplicity, *J*, Hz) | $\delta_C$[a] |
| 1 | – | 120.9 | – | 122.0 |
| 2 | 6.92 (s) | 109.5 | 7.02 (s) | 109.0 |
| 3 | – | 145.8 | – | 144.7 |
| 4 | – | 138.4 | – | 137.3 |
| 5 | – | 145.8 | – | 144.7 |
| 6 | 6.92 (s) | 109.5 | 7.02 (s) | 109.0 |
| 7 | – | 167.9 | – | 166.3 |
| OH | 9.36 (s) | – | – | – |
| $OCH_2$ | – | – | 3.60 (q, 7.2) | 60.0 |
| $CH_3$ | – | – | 1.24 (q, 7.2) | 14.1 |

[a]in $CDCl_3$ + $CD_3OD$.

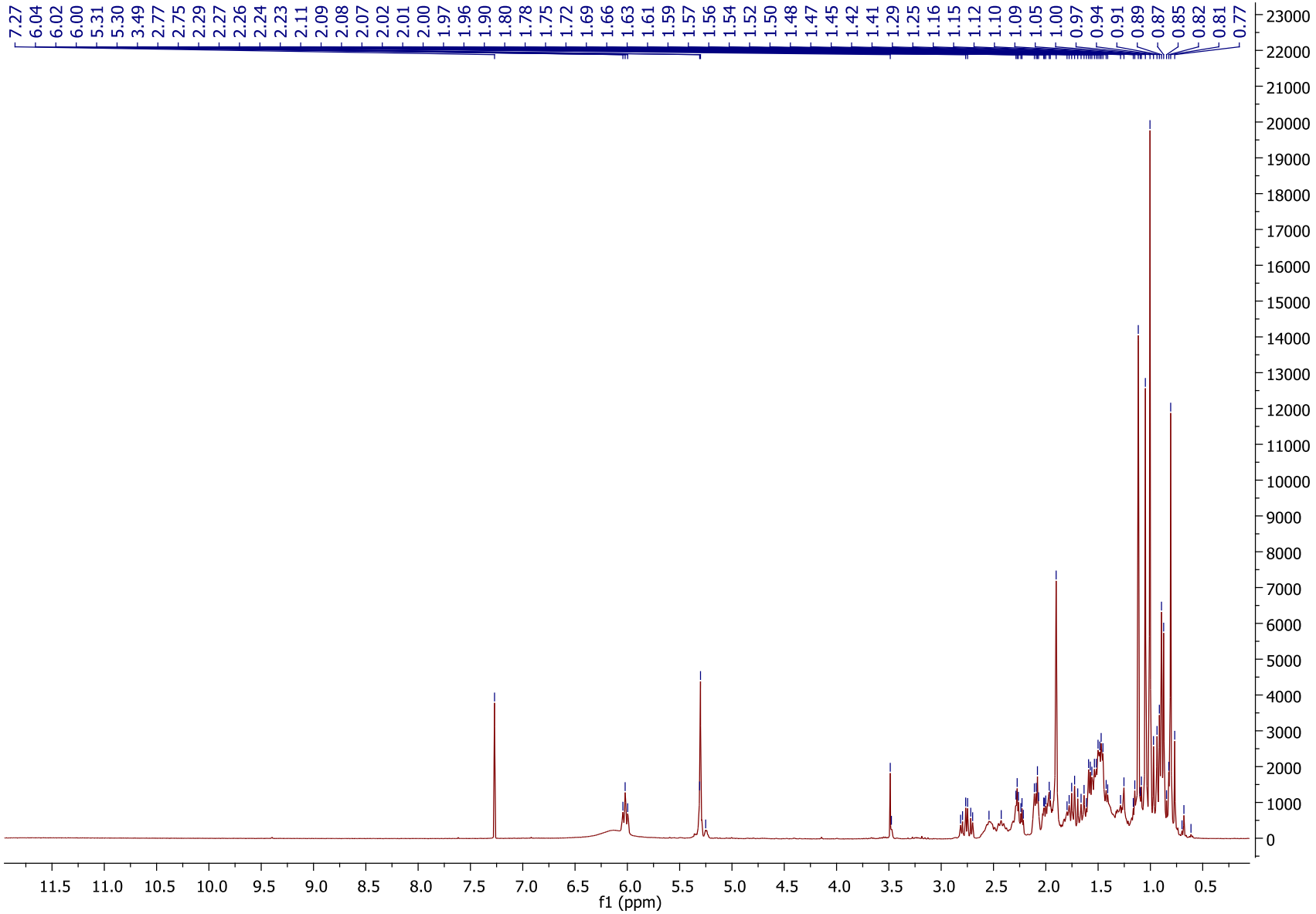


**Figure S1.** $^{1}$H NMR spectrum ($\delta$ in ppm, 300 MHz, $CDCl_3$) of compound **1**.

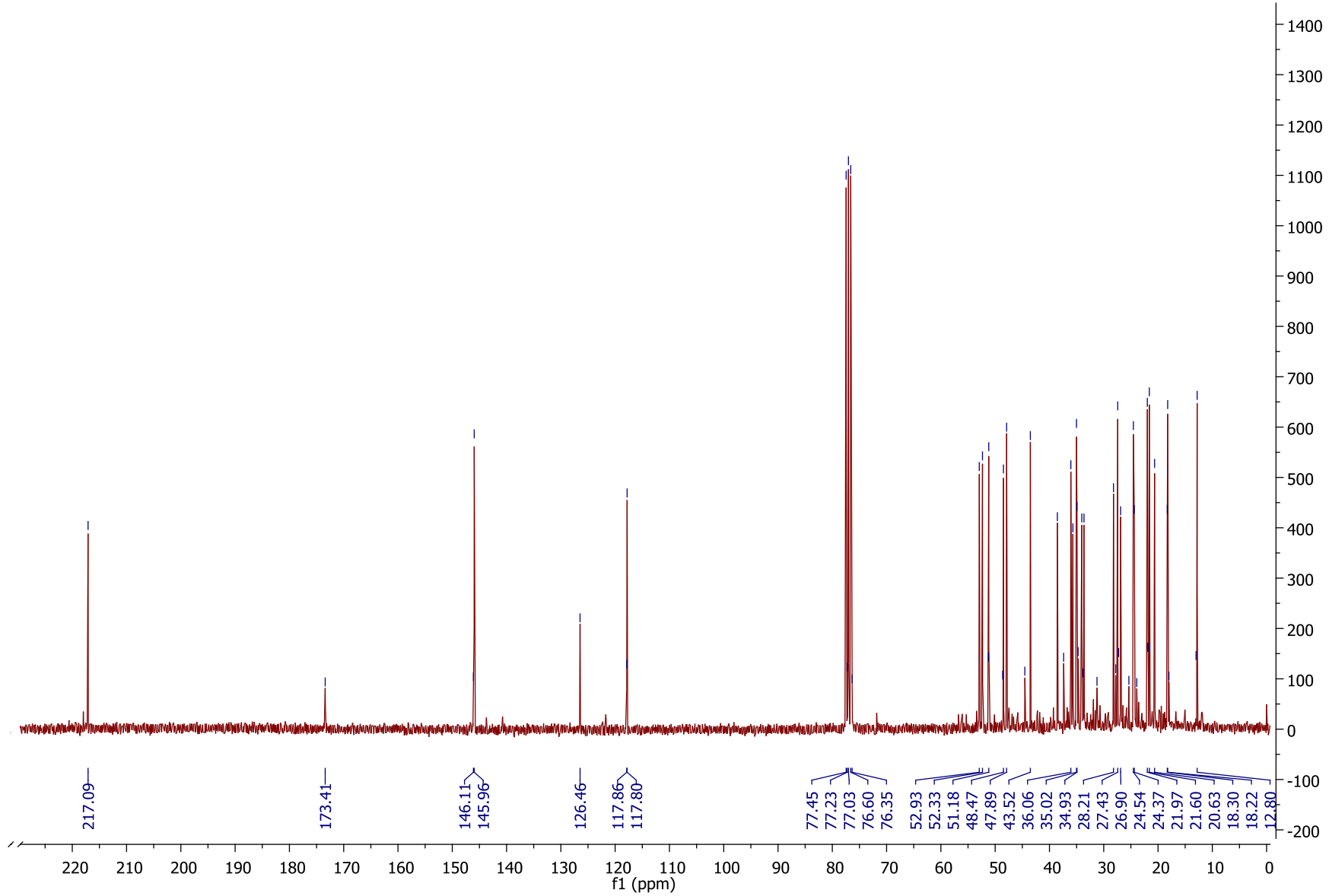


**Figure S2.** $^{13}$C NMR spectrum ($\delta$ in ppm, 75 MHz, $CDCl_3$) of compound **1**.

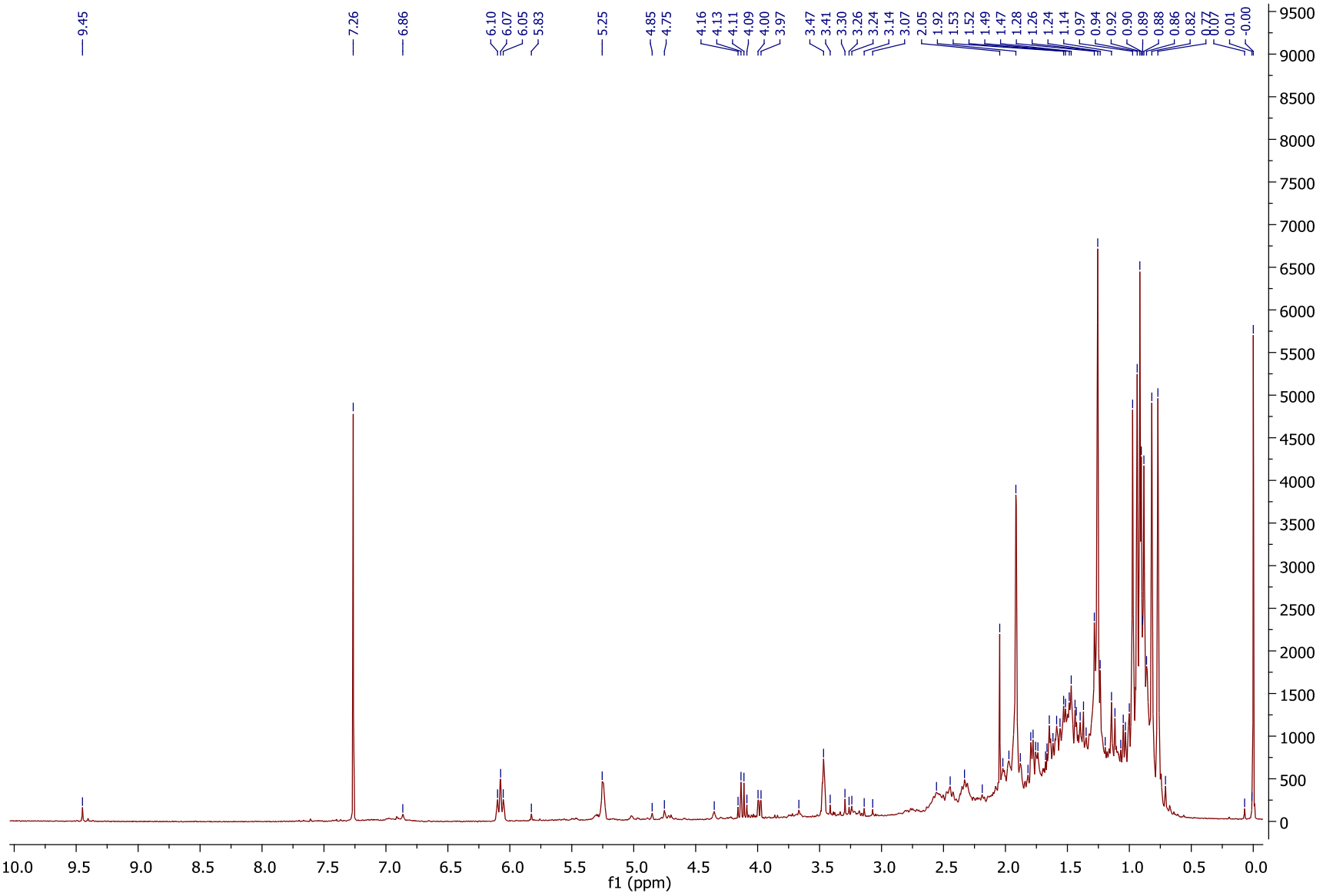


**Figure S3.** $^{1}$H NMR spectrum ($\delta$ in ppm, 300 MHz, $CDCl_3$) of compound **2**.

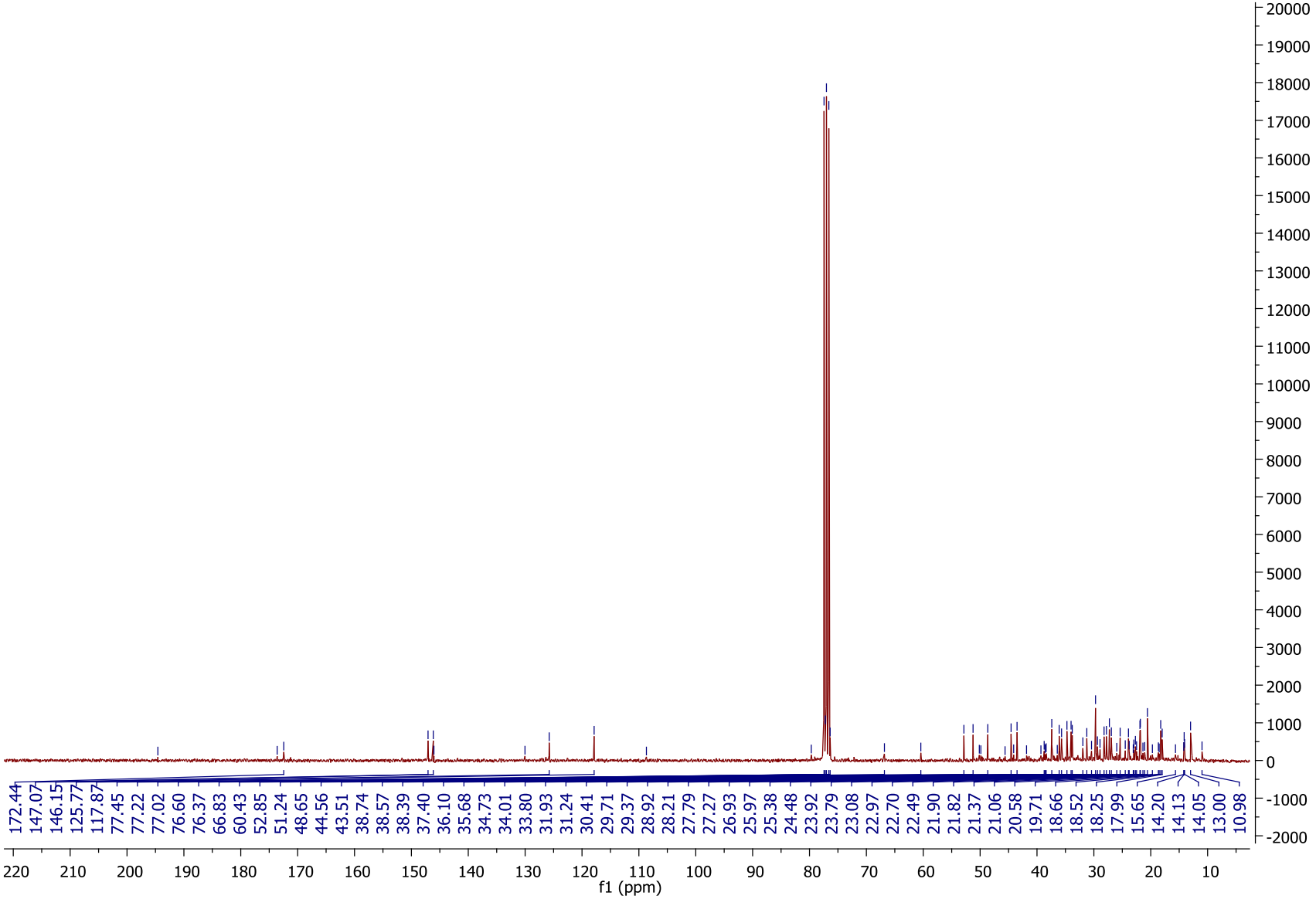


**Figure S4.** $^{13}C$ NMR spectrum ($\delta$ in ppm, 75 MHz, $CDCl_3$) of compound **2**.

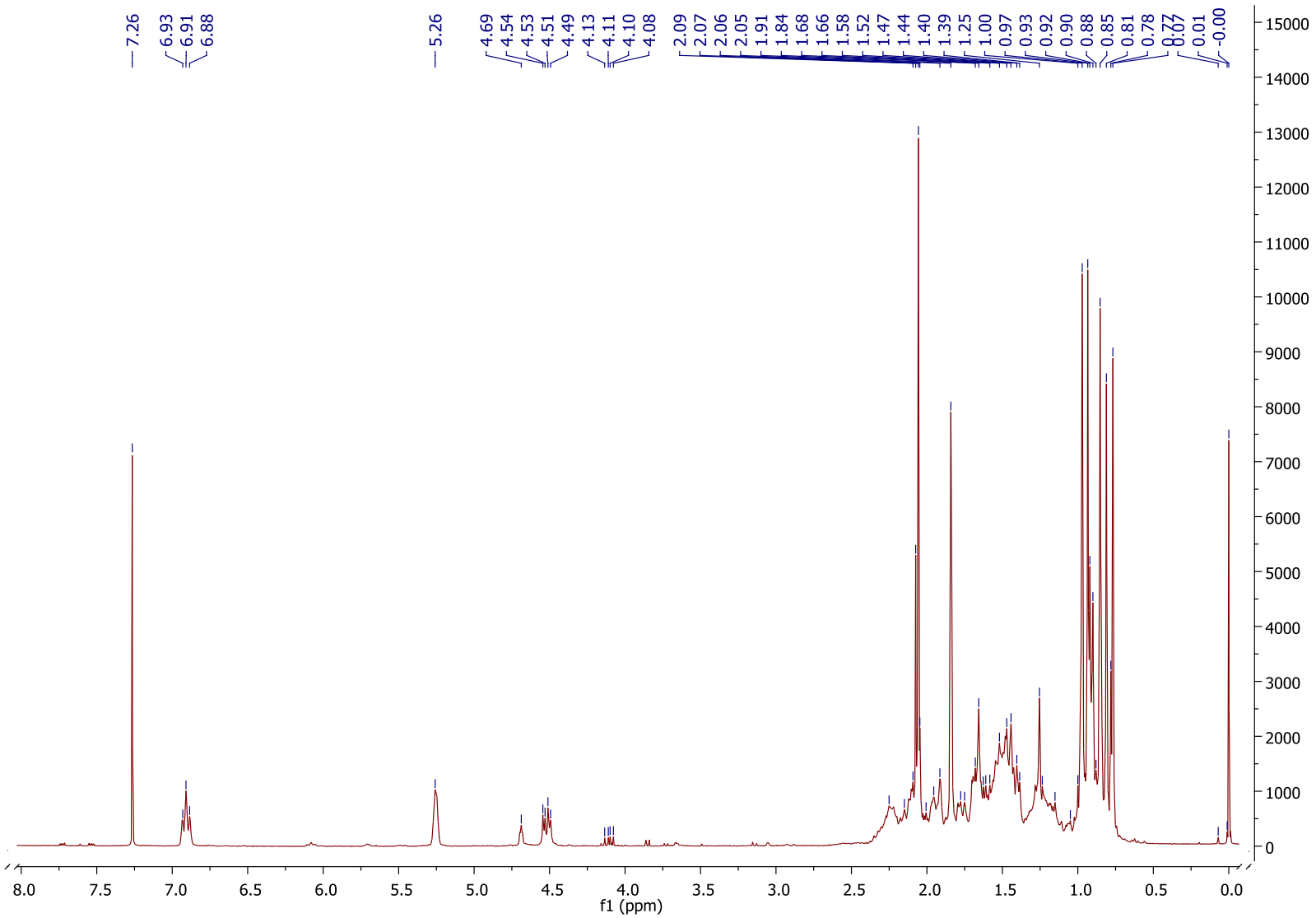


**Figure S5.** $^{1}$H NMR spectrum ($\delta$ in ppm, 300 MHz, $CDCl_3$) of compound **3**.

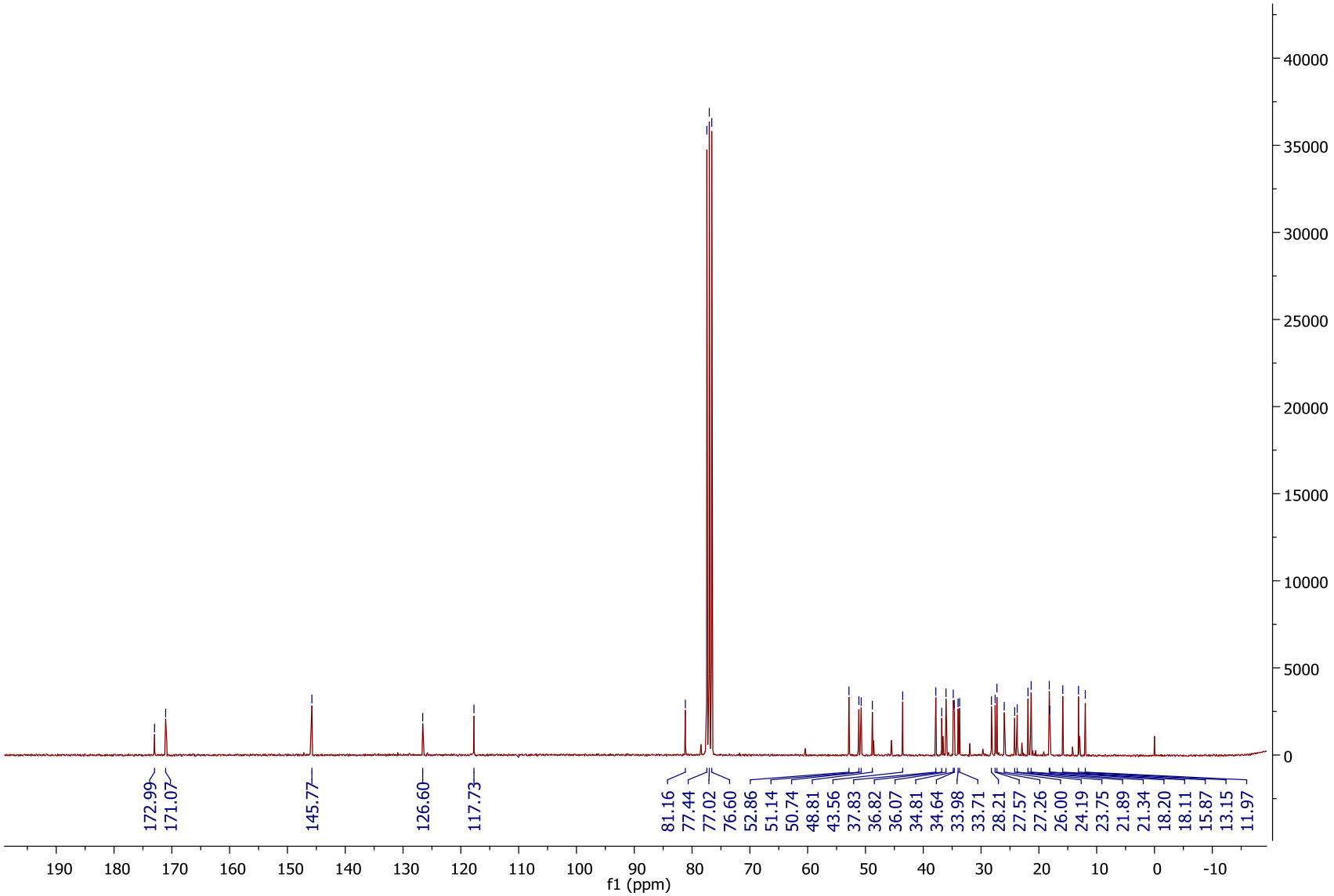


**Figure S6.** $^{13}C$ NMR spectrum ($\delta$ in ppm, 75 MHz, $CDCl_3$) of compound **3**.

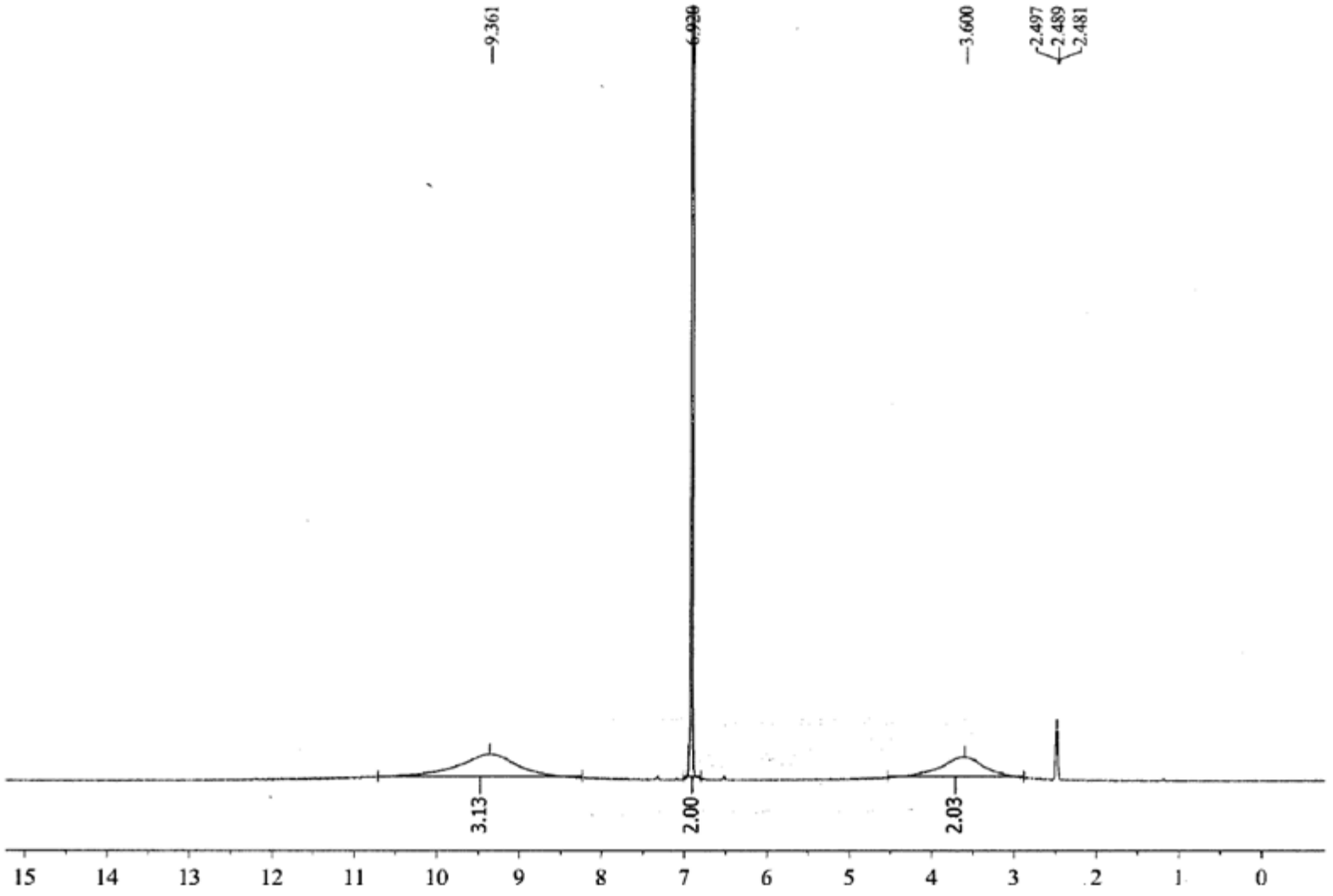


**Figure S7.** $^{1}$H NMR spectrum ($\delta$ in ppm, 300 MHz, $CD_3OD$) of compound **4**.

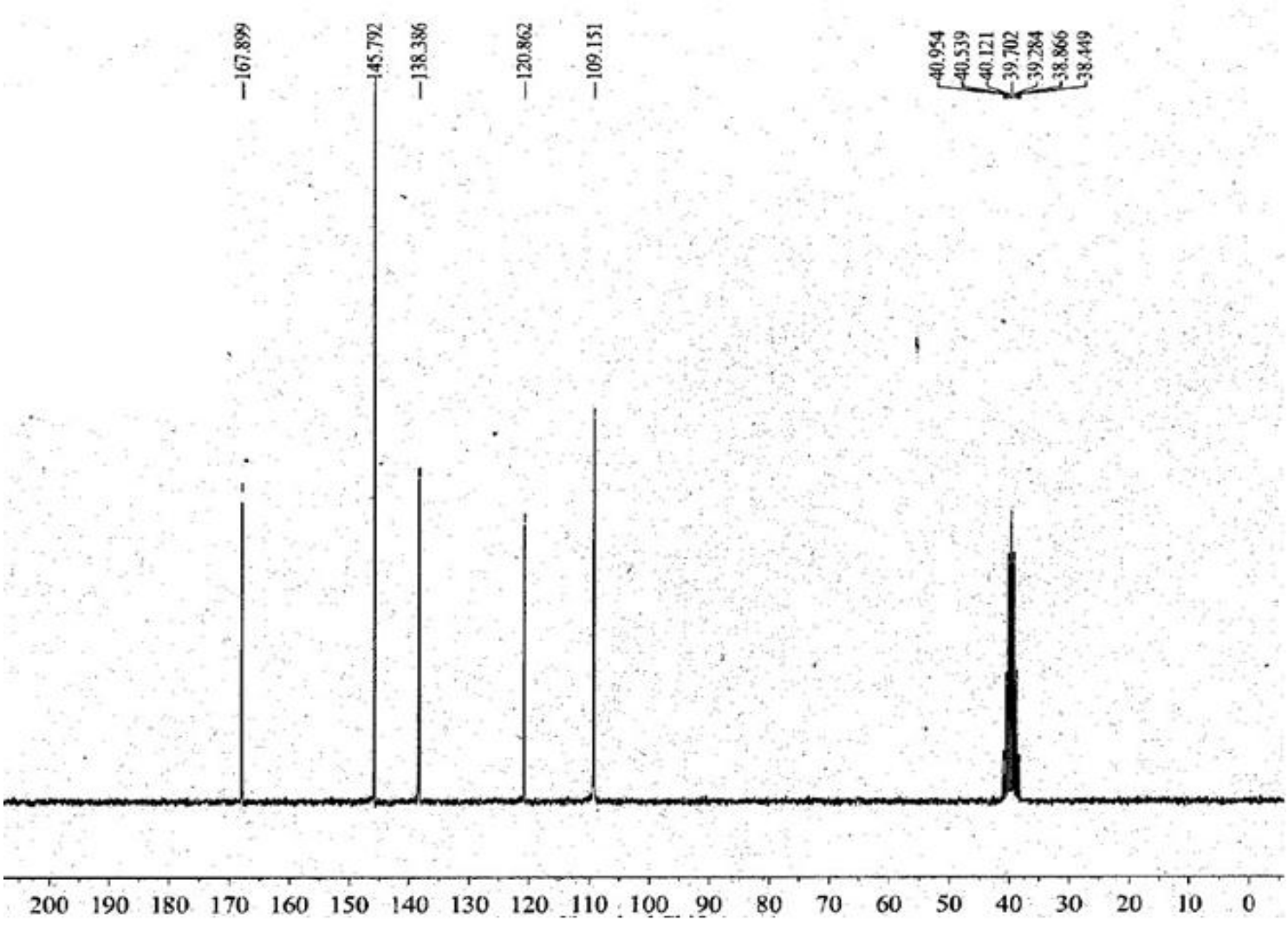


**Figure S8.** $^{13}C$ NMR spectrum ($\delta$ in ppm, 75 MHz, $CD_3OD$) of compound **4**.

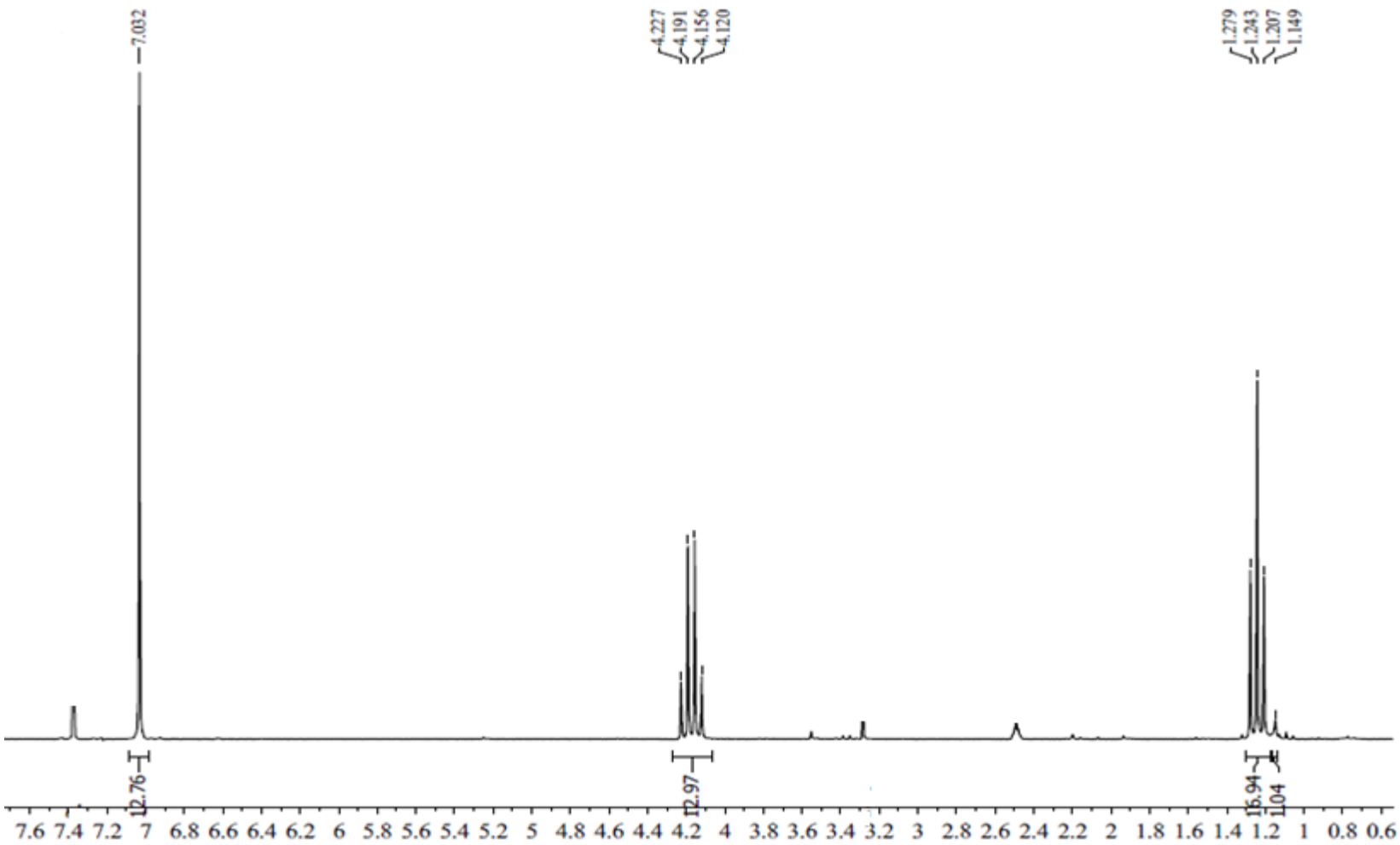


**Figure S9.** $^{1}$H NMR spectrum ($\delta$ in ppm, 300 MHz, $CD_3OD$) of compound **5**.

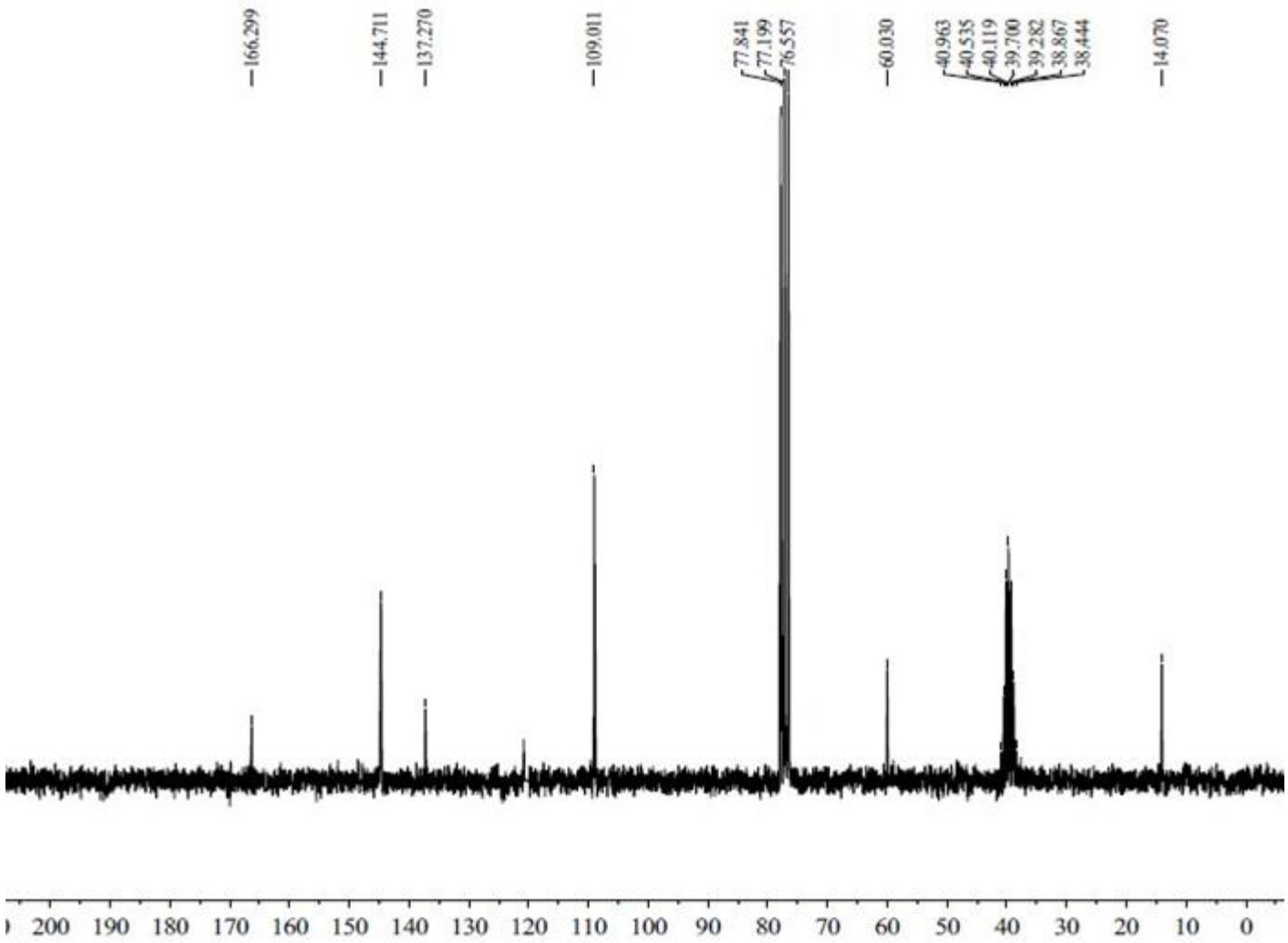


**Figure S10.** $^{13}C$ NMR spectrum ($\delta$ in ppm, 75 MHz, $CDCl_3$ + $CD_3OD$) of compound **5**.