

## SUPPLEMENTARY MATERIAL

### Two New Biphenyls from the Stems of *Garcinia tetralata*

Bing-Kun Ji<sup>a</sup>, Xue-Mei Gao<sup>a,\*</sup>, Di Cui<sup>a</sup>, Shan-Shan Wang<sup>a</sup>, Wen-Zhong Huang<sup>b</sup>, Yin-Ke Li<sup>c</sup>, Shuang-Xi Mei<sup>d</sup>, Zhi Yang<sup>d</sup>, Gan-Peng Li<sup>a</sup>, Meng-Yuan Jiang<sup>a</sup>, Yong-Hui He<sup>a</sup>, Zhi-Yong Jiang<sup>a</sup>, Gang Du<sup>a</sup>, Xiao-Xia Pan<sup>a</sup>, Wen-Xing Liu<sup>a</sup>, and Qiu-Fen Hu<sup>a</sup>

<sup>a</sup> Key Laboratory of Chemistry in Ethnic Medicinal Resources, State Ethnic Affairs Commission & Ministry of Education, School of Ethnic Medicine, Yunnan Minzu University, Kunming 650031, P. R. China

<sup>b</sup> Department of Chemical Science and Technology, Kunming University, Kunming 650031, P. R. China

<sup>c</sup> Collge of Resource and Environment, Yuxi Normal University, Yuxi 653100, P.R. China

<sup>d</sup> Yunnan Bai Yao Group Innovation and R&D Center, Yunnan Baiyao Industry Co., Ltd, Kunming 650031, P. R. China

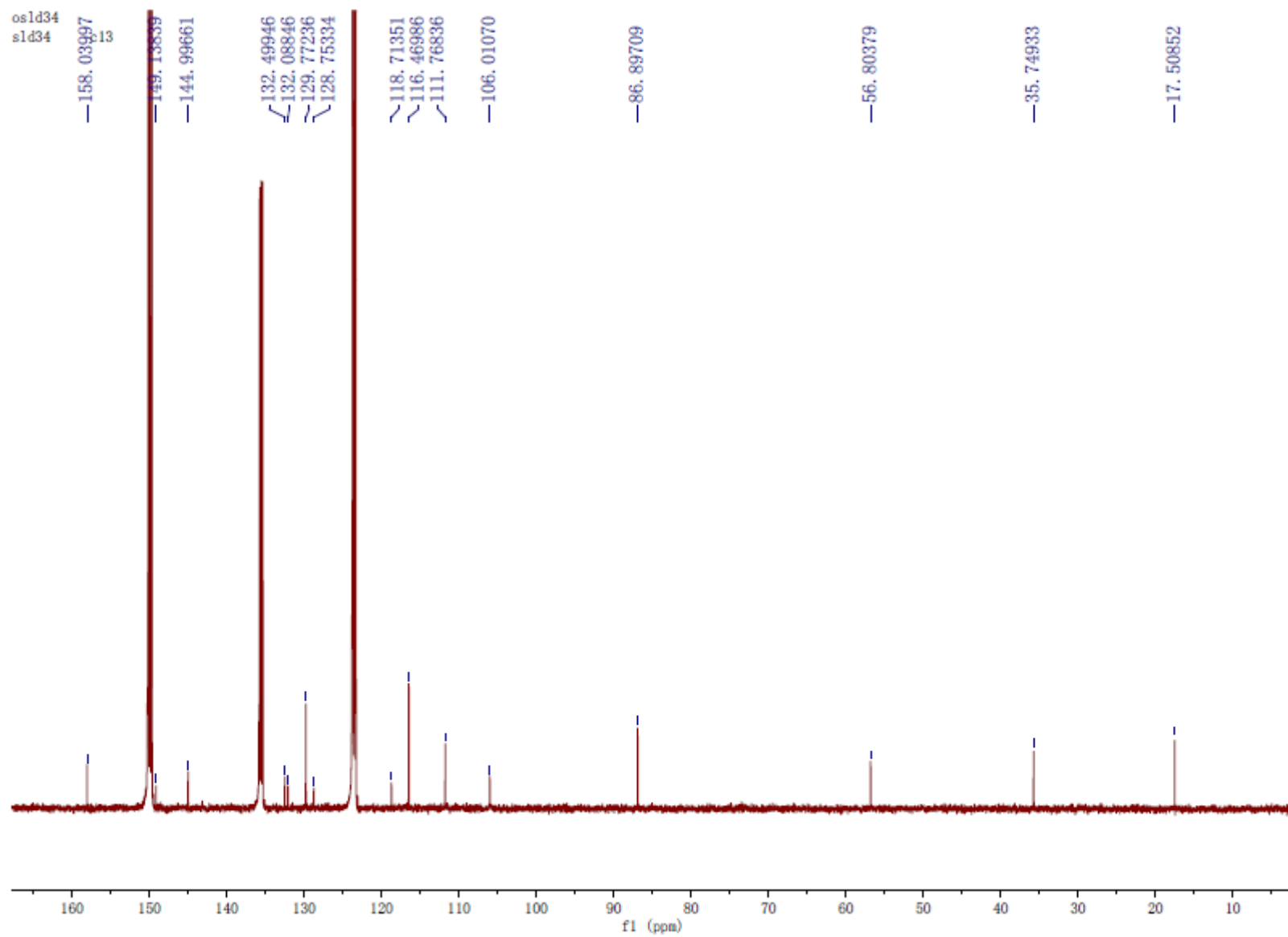
### Abstract

Two new biphenyls (**1** and **2**) and three known xanthones (**3-5**) were isolated from the ethanol extract of the stems of *Garcinia tetralata*. Structural elucidations of **1-2** were elucidated by spectroscopic methods including extensive 1D- and 2D-nuclear magnetic resonance spectroscopy techniques. Compounds **1- 2** showed anti-rotavirus activities with SI above 10.

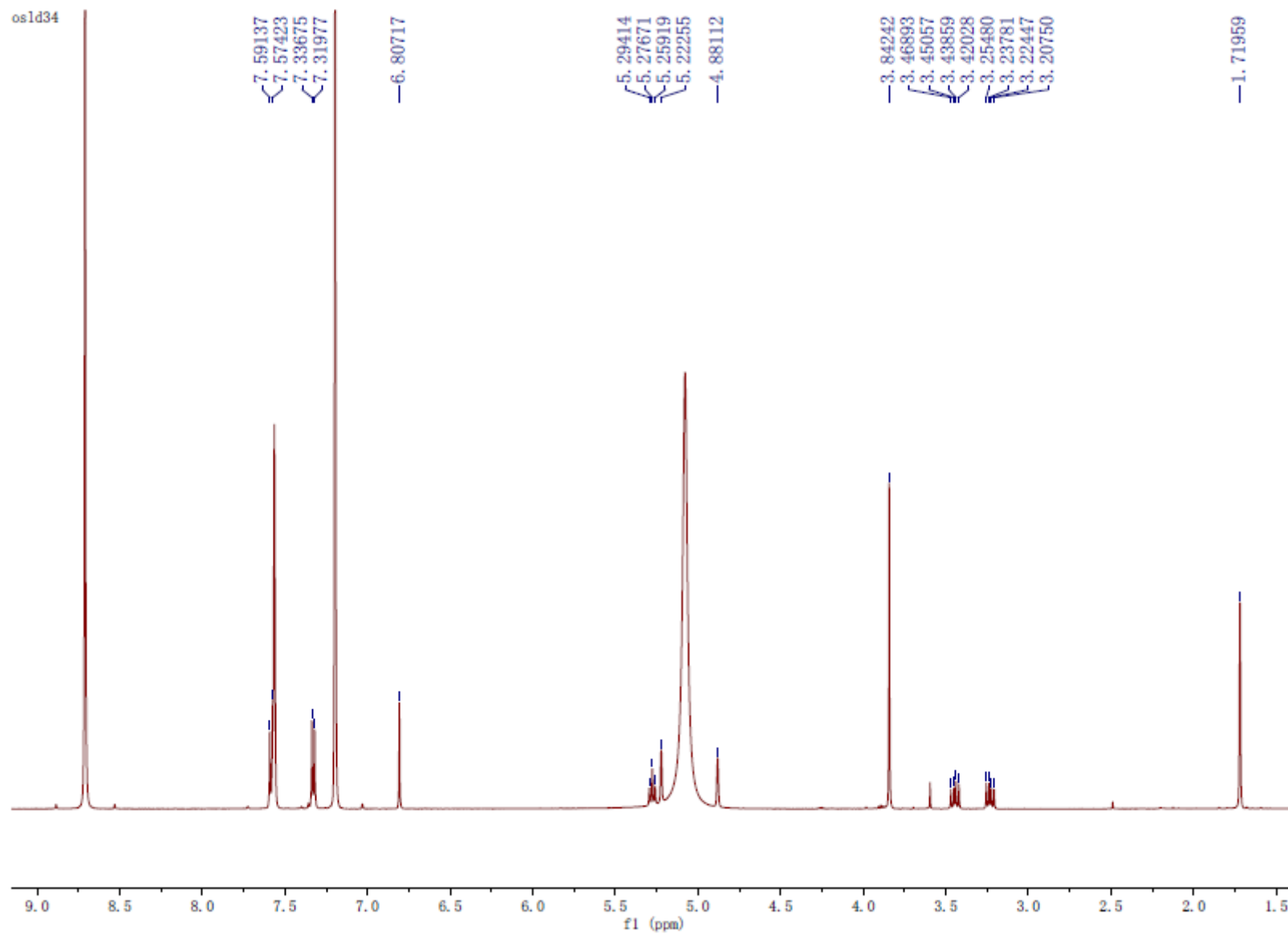
**Keywords:** *Garcinia tetralata*, biphenyls, anti-rotavirus activity

## Contents of Supporting Information

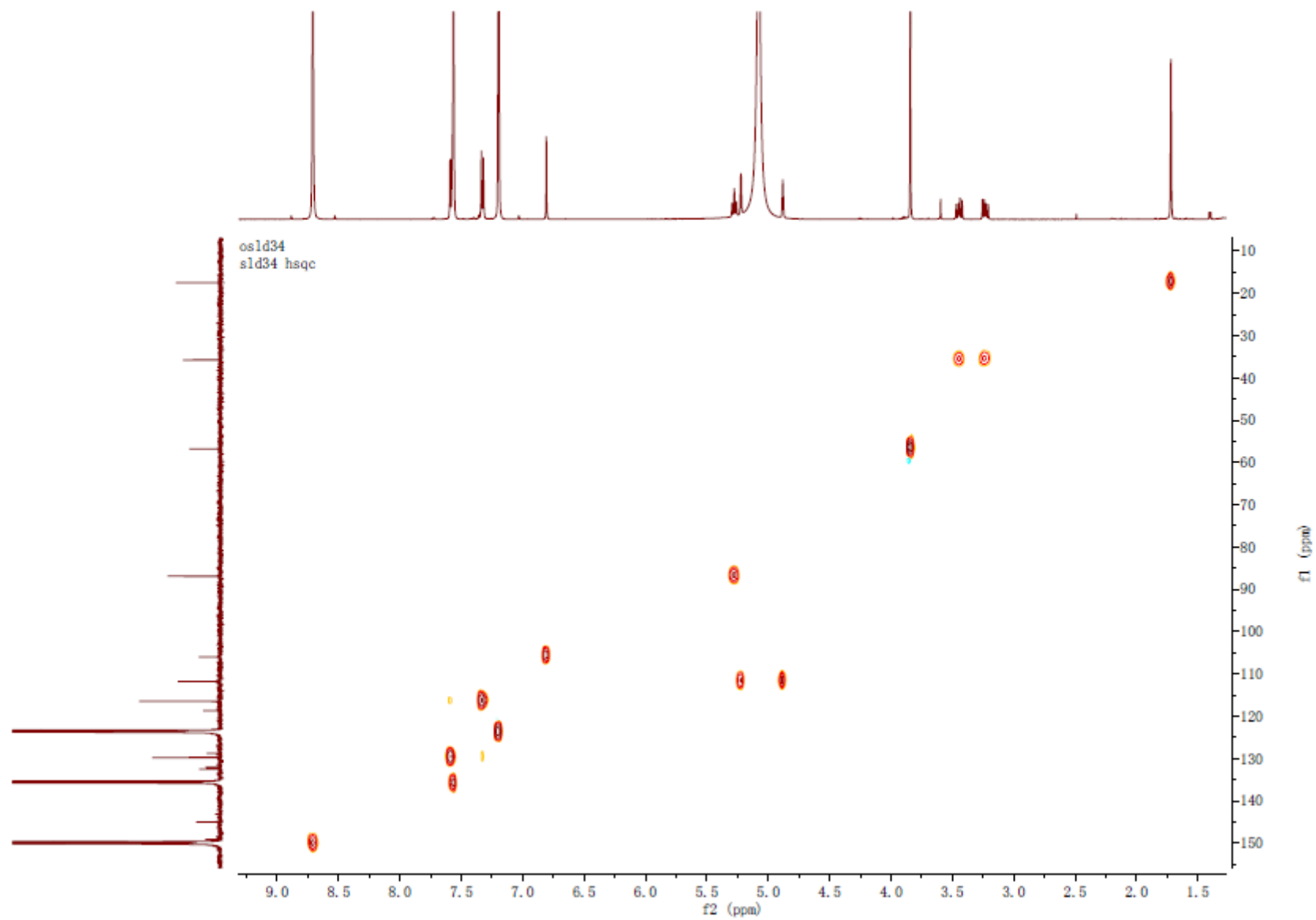
| <b>No.</b> | <b>Contents:</b>   | <b>Pages:</b> |
|------------|--|---------------|
| Figure S1  | $^{13}\text{C}$ NMR spectrum of compound ( <b>1</b> )              | 3             |
| Figure S2  | $^1\text{H}$ NMR spectrum of compound ( <b>1</b> )                 | 4             |
| Figure S3  | HSQC spectrum of compound ( <b>1</b> )                             | 5             |
| Figure S4  | HMBC spectrum of compound ( <b>1</b> )                             | 6             |
| Figure S5  | $^1\text{H}$ - $^1\text{H}$ COSY spectrum of compound ( <b>1</b> ) | 7             |
| Figure S6  | ESI-MS spectrum of compound ( <b>1</b> )                           | 8             |
| Figure S7  | $^{13}\text{C}$ NMR spectrum of compound ( <b>2</b> )              | 9             |
| Figure S8  | $^1\text{H}$ NMR spectrum of compound ( <b>2</b> )                 | 10            |
| Figure S9  | ESI-MS spectrum of compound ( <b>2</b> )                           | 11            |
| Figure S10 | The key HMBC and COSY correlations of compound 1.                  | 12            |



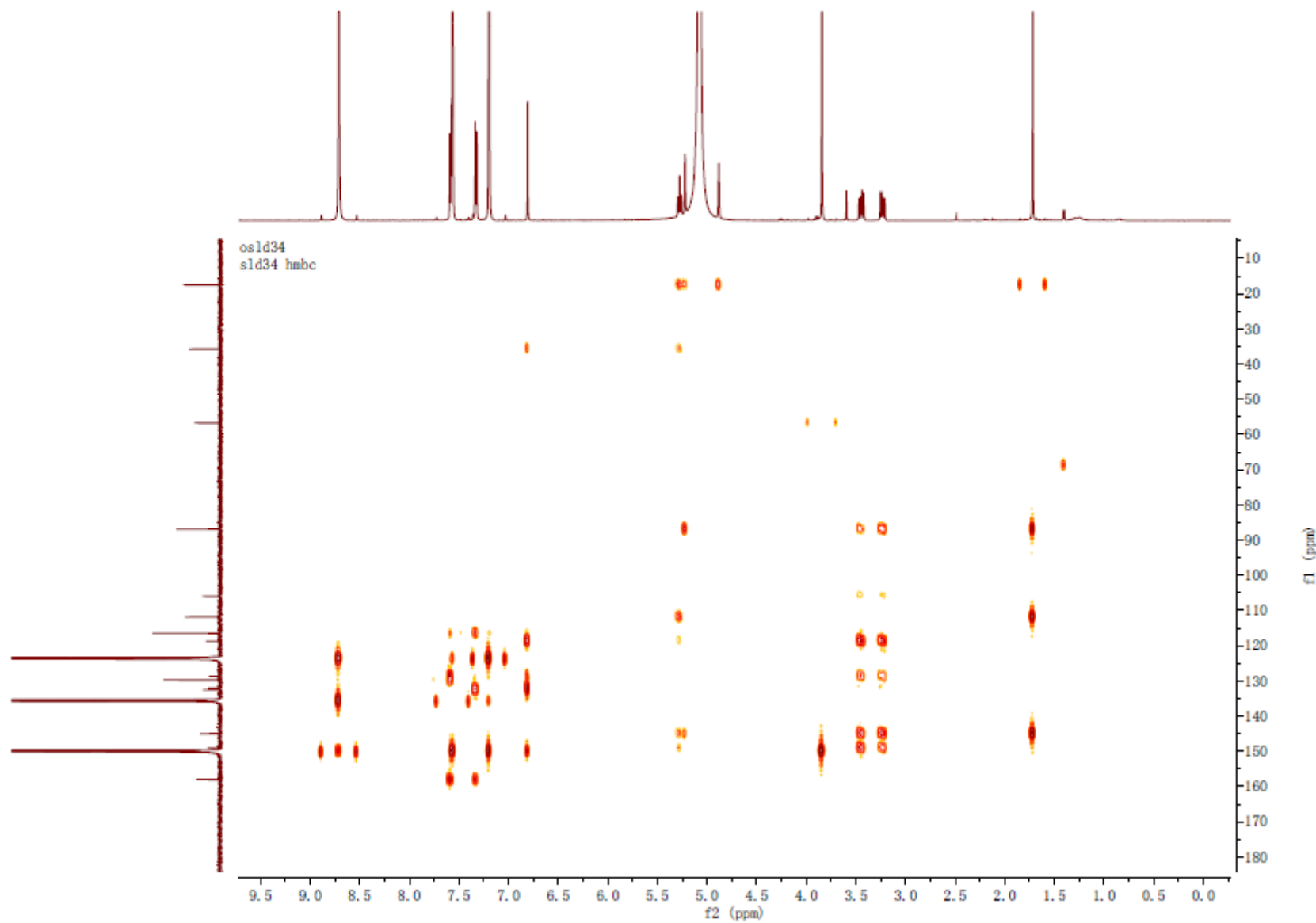
**Figure S1.**  $^{13}\text{C}$  NMR spectrum (125 MHz,  $\text{C}_5\text{D}_5\text{N}$ ) of compound (**1**)



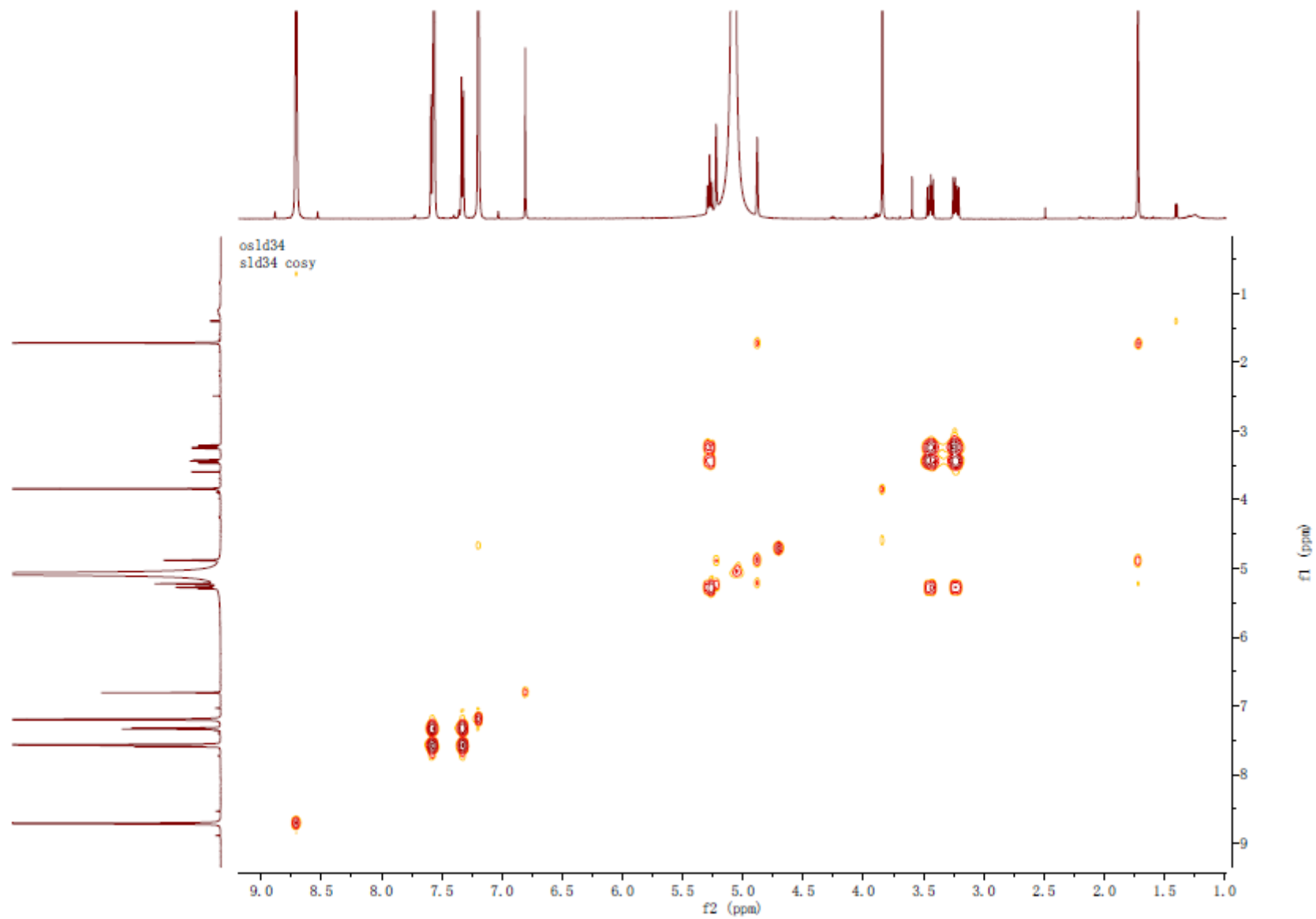
**Figure S2.**  $^1\text{H}$  NMR spectrum (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ) of compound (**1**)



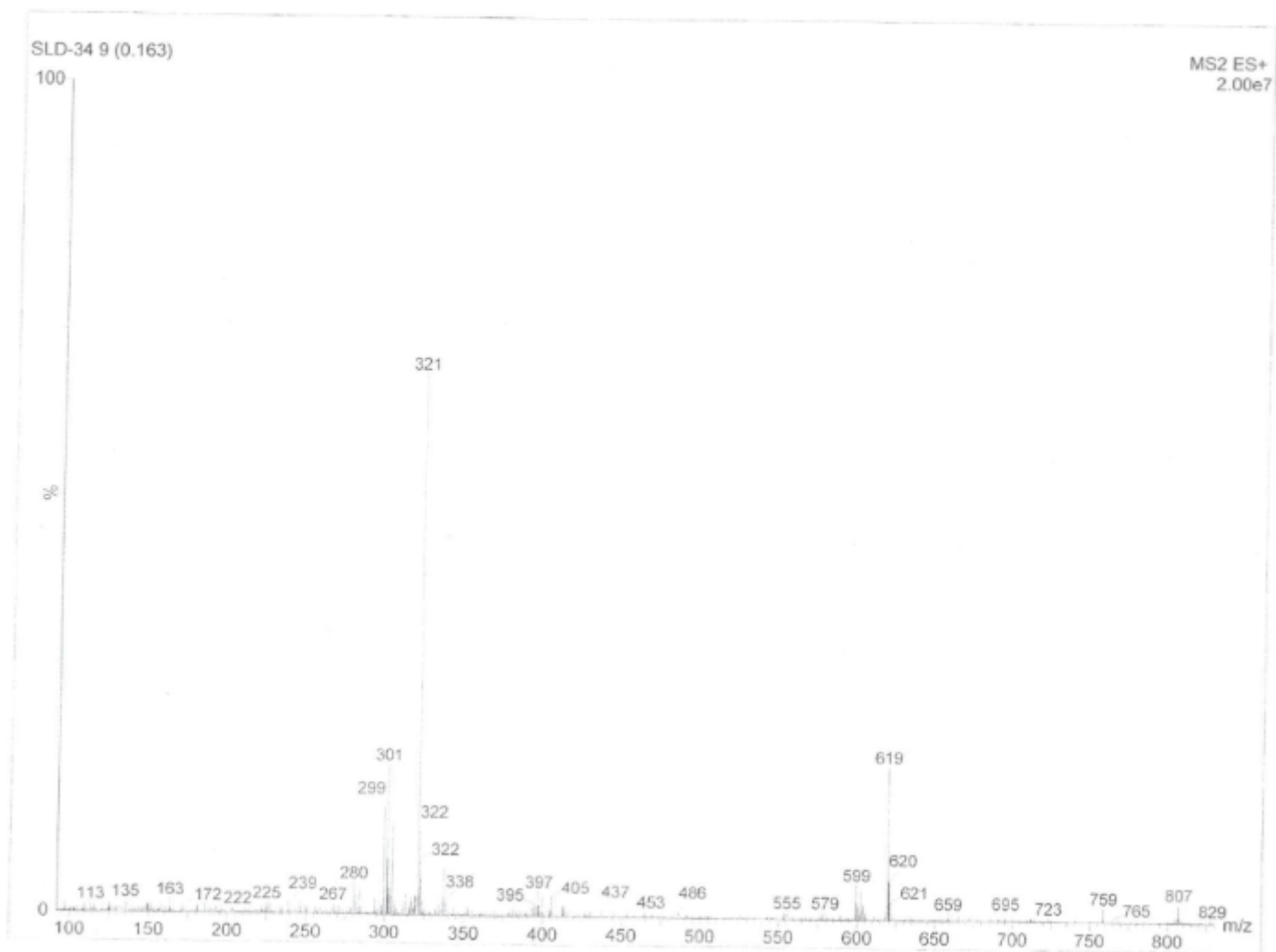
**Figure S3.** HSQC spectrum (600 MHz,  $\text{C}_5\text{D}_5\text{N}$ ) of compound (**1**)



**Figure S4.** HMBC spectrum (500 MHz, C<sub>5</sub>D<sub>5</sub>N) of compound (**1**)

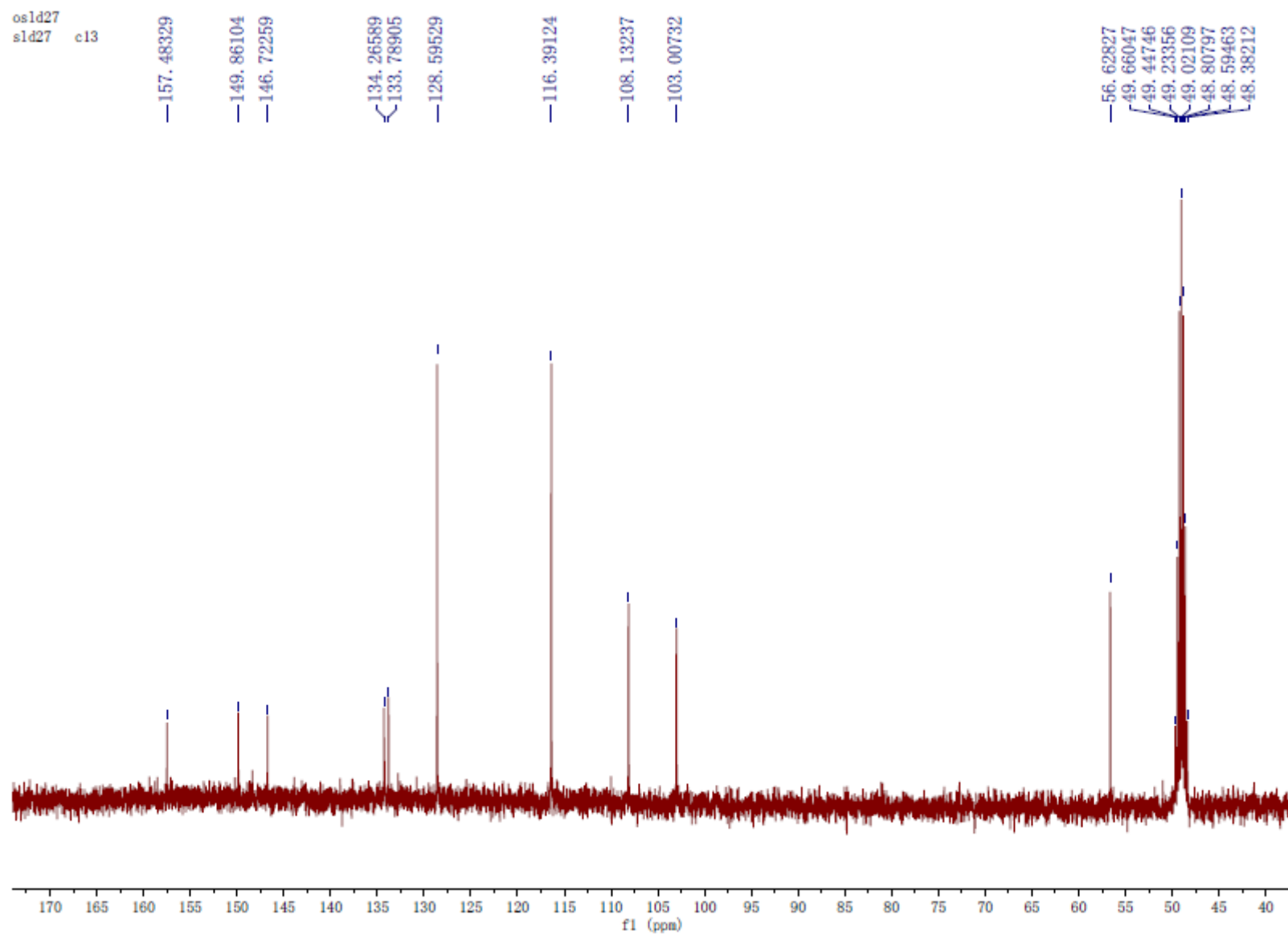


**Figure S5.**  $^1\text{H}$ - $^1\text{H}$  COSY spectrum (500 MHz,  $\text{C}_5\text{D}_5\text{N}$ ) of compound (**1**)

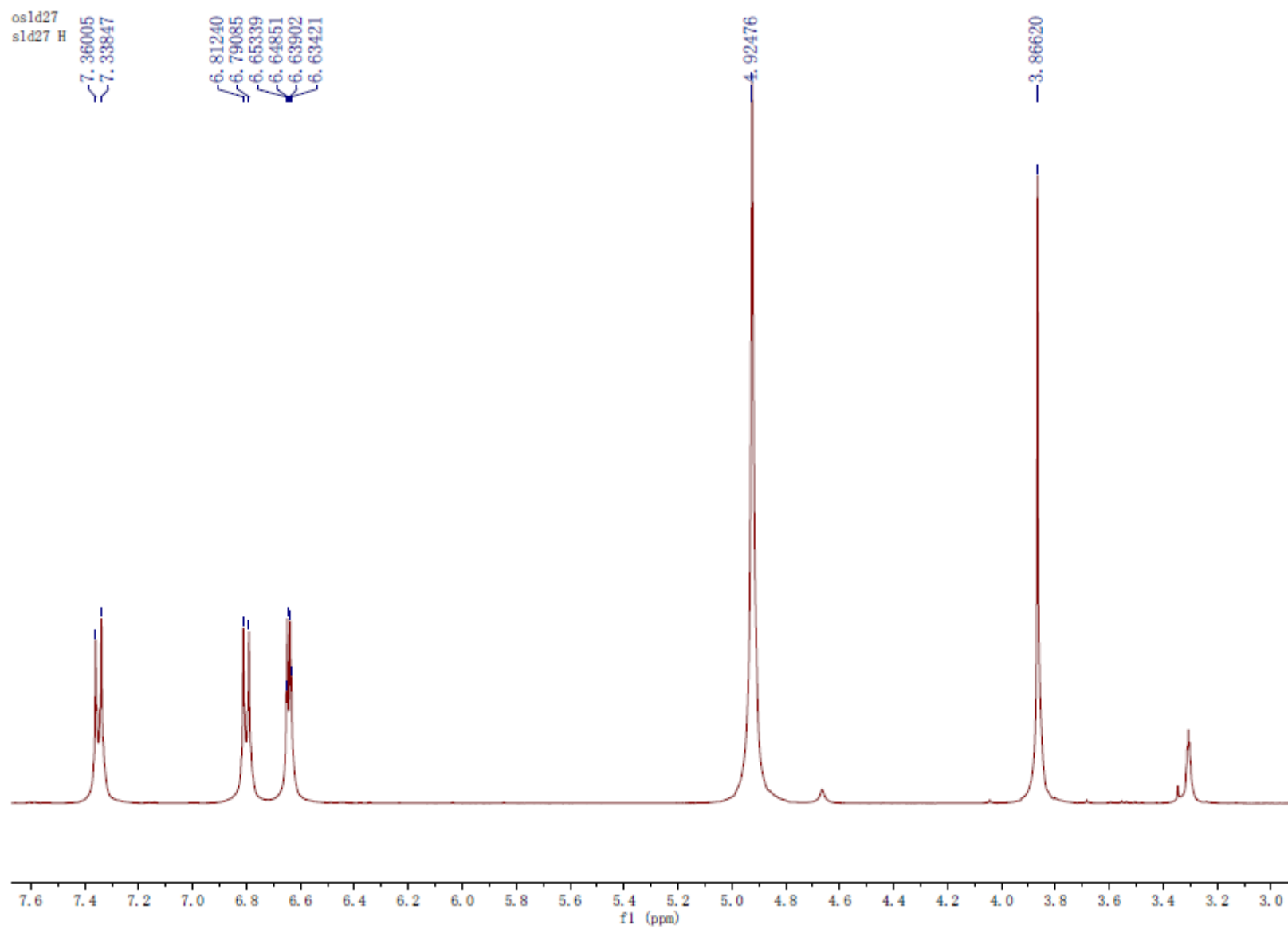


**Figure S6.** ESI-MS spectrum of compound (1)

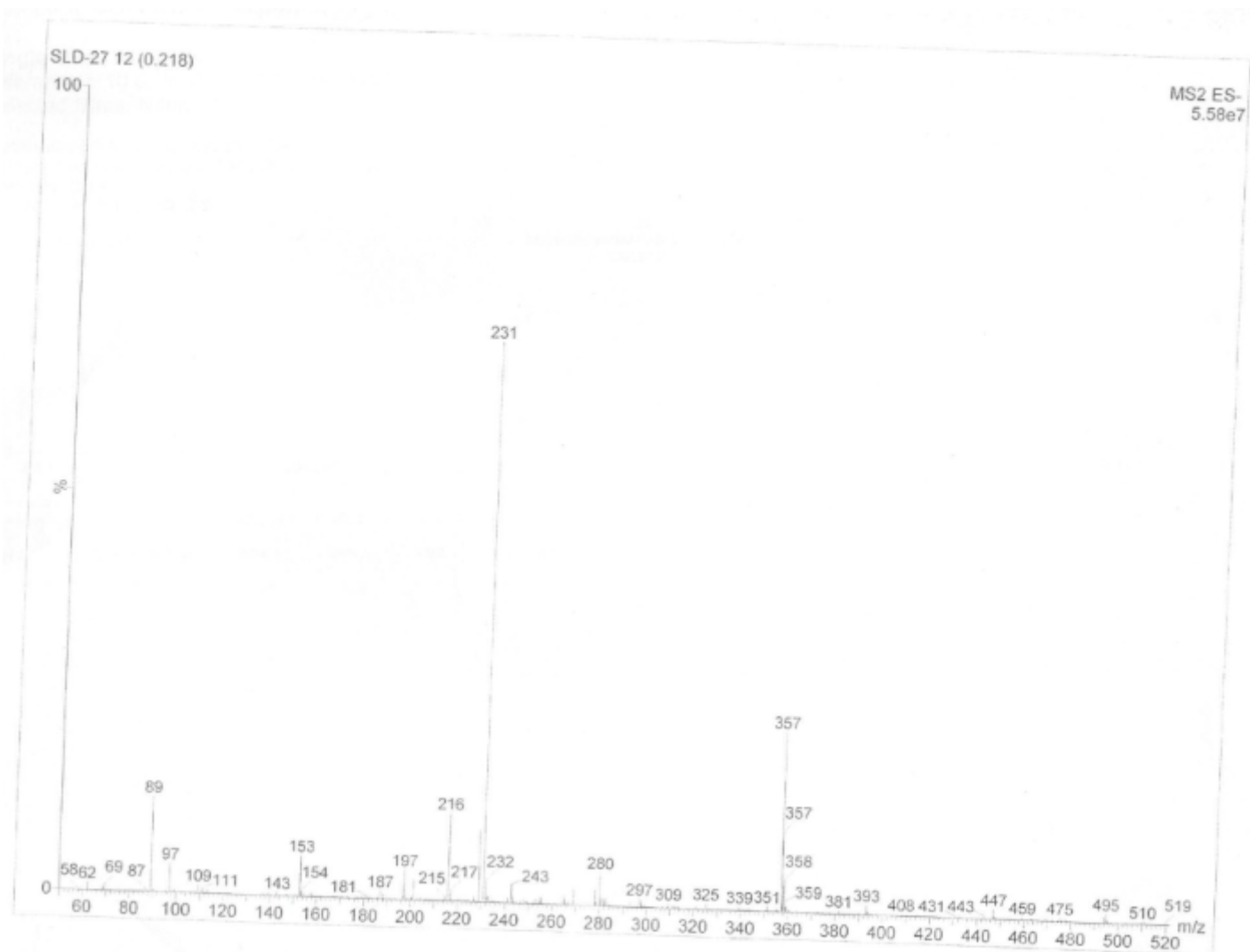




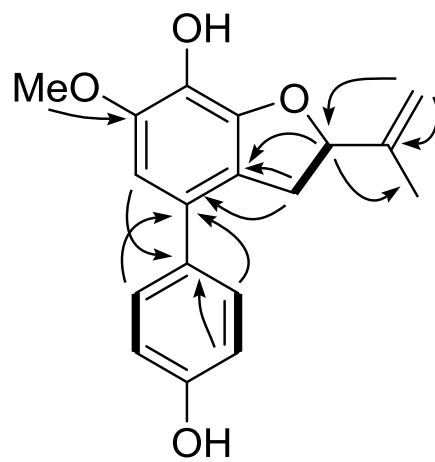
**Figure S7.**  $^{13}\text{C}$  NMR spectrum (125 MHz,  $\text{CD}_3\text{OD}$ ) of compound (**2**)



**Figure S8.**  $^1\text{H}$  NMR spectrum (500 MHz,  $\text{CD}_3\text{OD}$ ) of compound (**2**)



**Figure S9.** ESI-MS spectrum of compound (2)



**Figure S10.** The key HMBC and COSY correlations of compound **1**.