

**Anticancer and antibacterial flavonoids from callus of *Ampelopsis grossedentata*;  
a new weapon to mitigate the proliferation of cancer cells and bacteria**

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**Continued table**

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6'	97.33	5.84, d (2.1)
7'	168.81	
8'	96.52	5.80, d (2.1)
9'	164.62	
10'	128.12	
11'	116.80	
12'	146.00	
13'	135.39	
14'	147.23	
15'	107.44	6.76 (s)

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**Table S2** HRESIMS datas of compounds **2-6** (600 MHz, MeOD)

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<b>Compound</b>	<b>Ion mode</b>	<b>m/z</b>	<b>molecular formula</b>
Cuminatanol ( <b>2</b> )	[M-H] <sup>-</sup>	637.0831	C <sub>30</sub> H <sub>21</sub> O <sub>16</sub>
Myricetin ( <b>3</b> )	[M-H] <sup>-</sup>	317.0292	C <sub>15</sub> H <sub>9</sub> O <sub>8</sub>
	[2M-H] <sup>-</sup>	635.0643	
Epigallocatechin ( <b>4</b> )	[M-H] <sup>-</sup>	305.0663	C <sub>15</sub> H <sub>13</sub> O <sub>7</sub>
	[2M-H] <sup>-</sup>	611.1365	
Taxifolin ( <b>5</b> )	[M+H] <sup>+</sup>	305.0663	C <sub>15</sub> H <sub>13</sub> O <sub>7</sub>
Dihydromyricetin ( <b>6</b> )	[M+H] <sup>+</sup>	321.0635	C <sub>15</sub> H <sub>13</sub> O <sub>8</sub>

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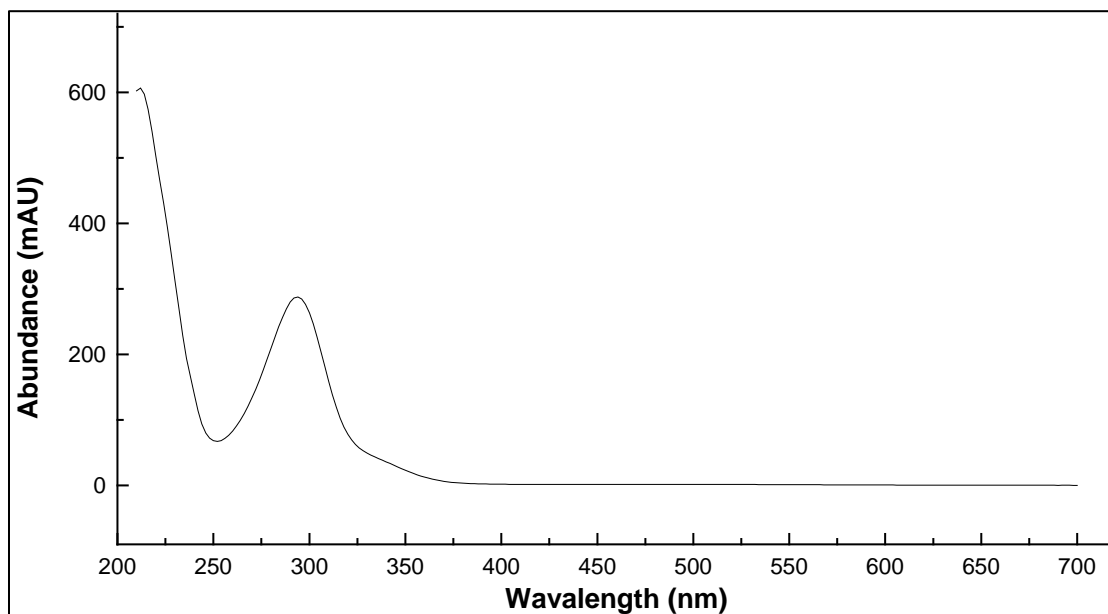


Fig.S1 UV spectrum of angelouie (1)

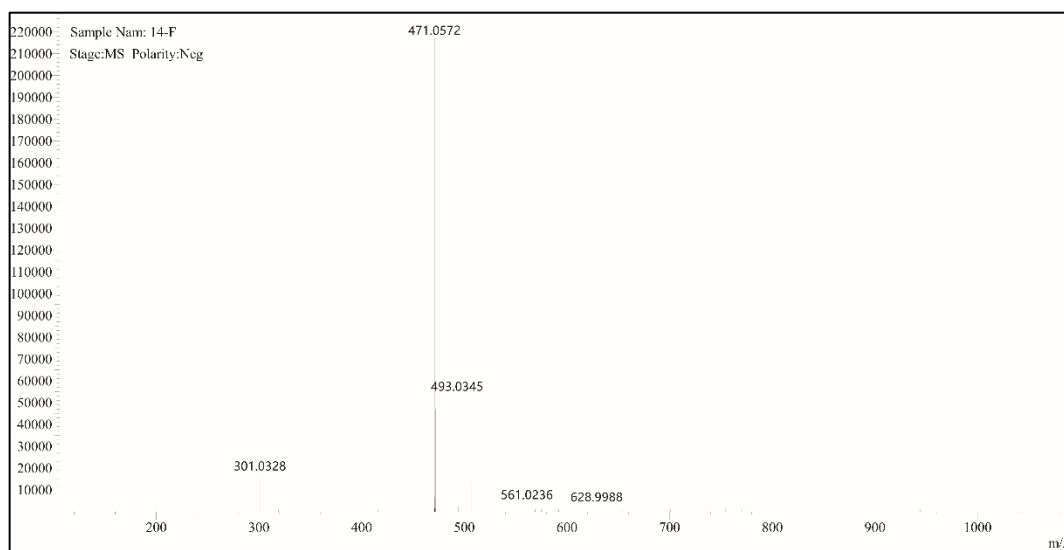


Fig.S2 The HRESIMS spectrum of angelouie (1)

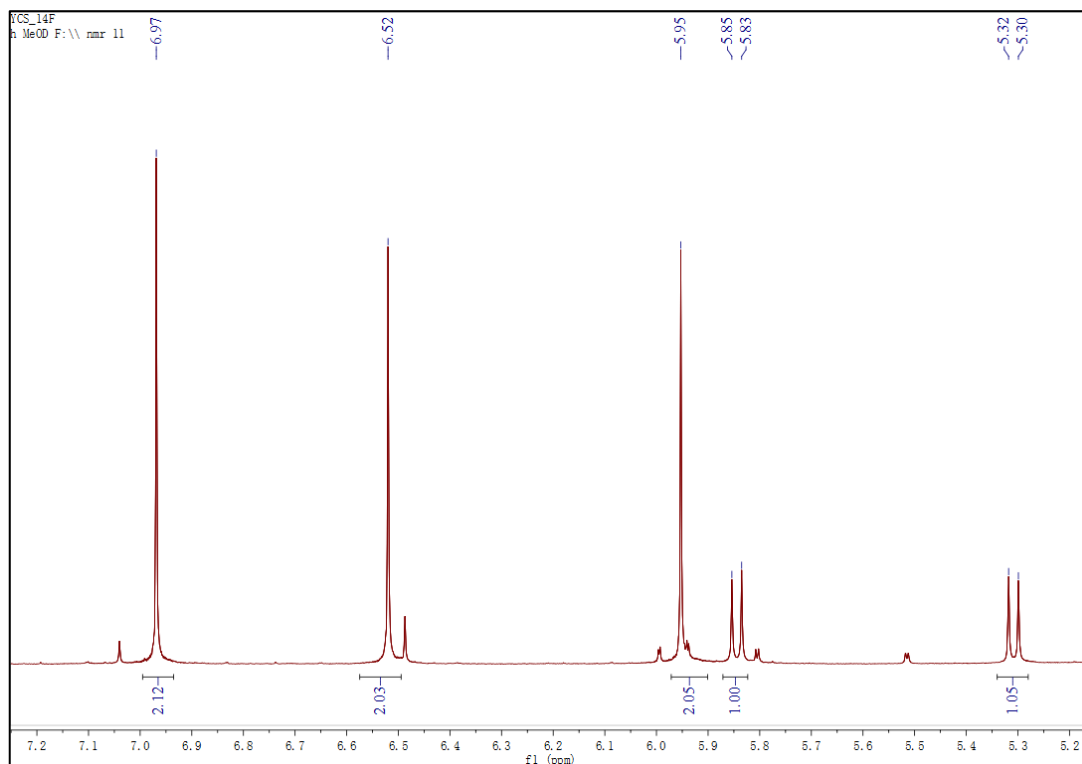


Fig.S3 The <sup>1</sup>H NMR spectrum of angelouie (1)

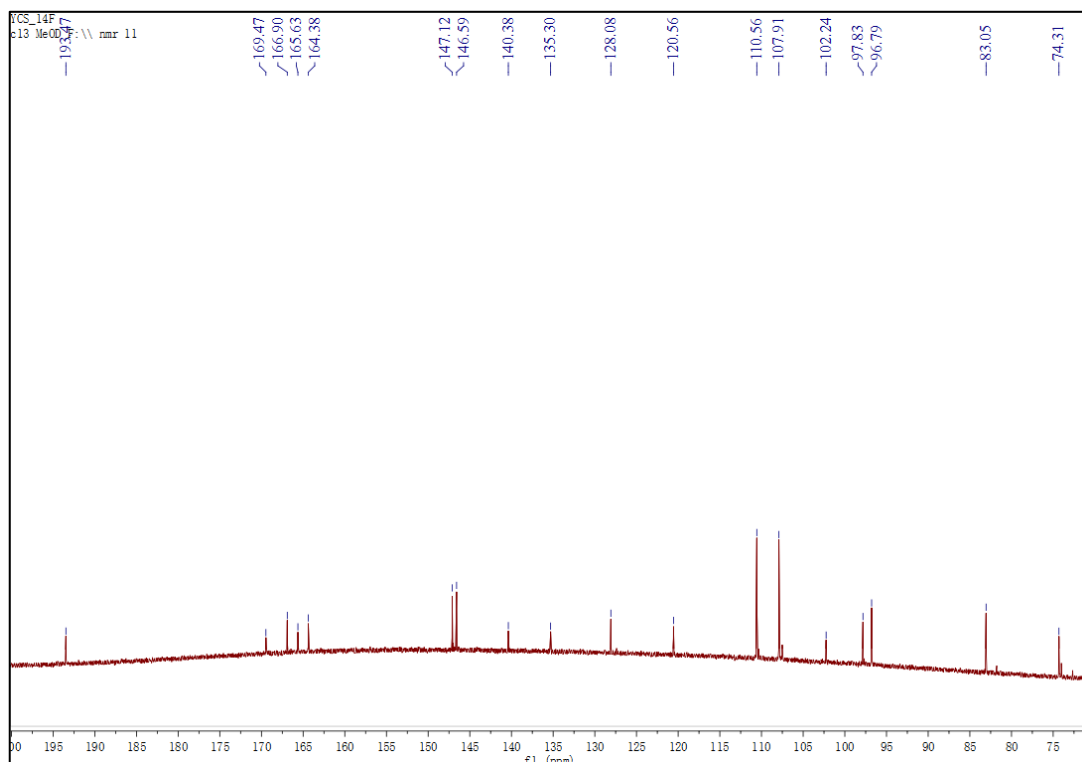


Fig.S4 The <sup>13</sup>C NMR spectrum of angelouie (1)

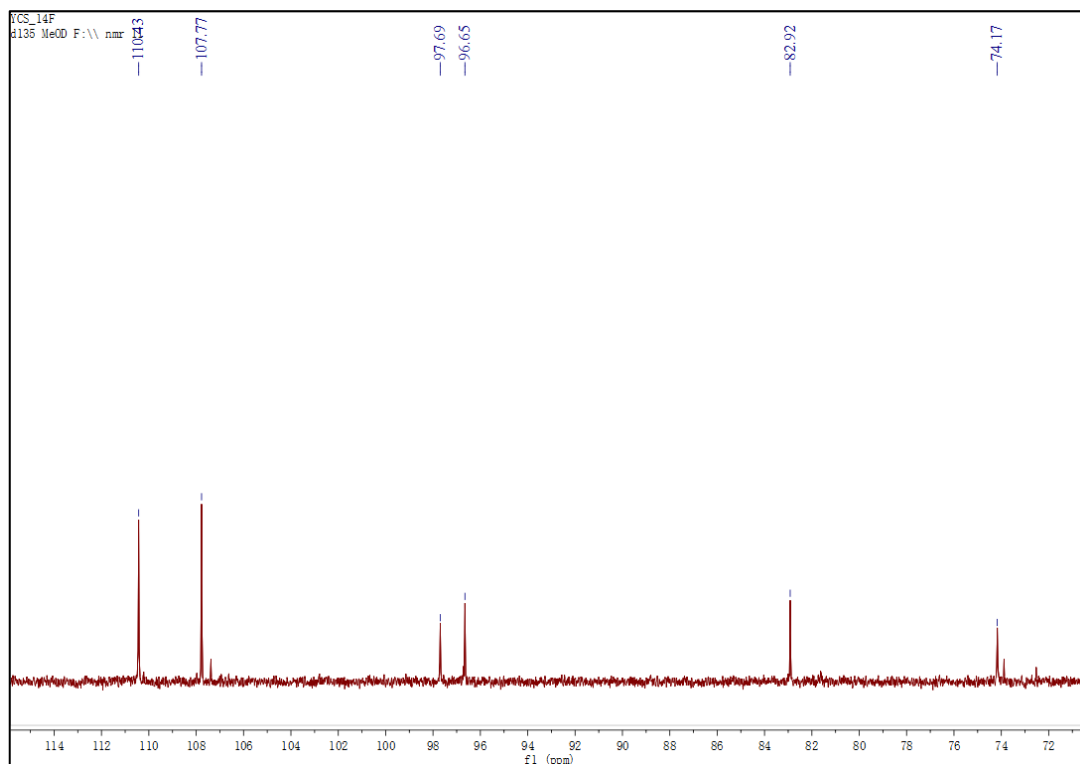


Fig.S5 The  $^{13}\text{C}$  DEPT135 NMR spectrum of angelique (1)

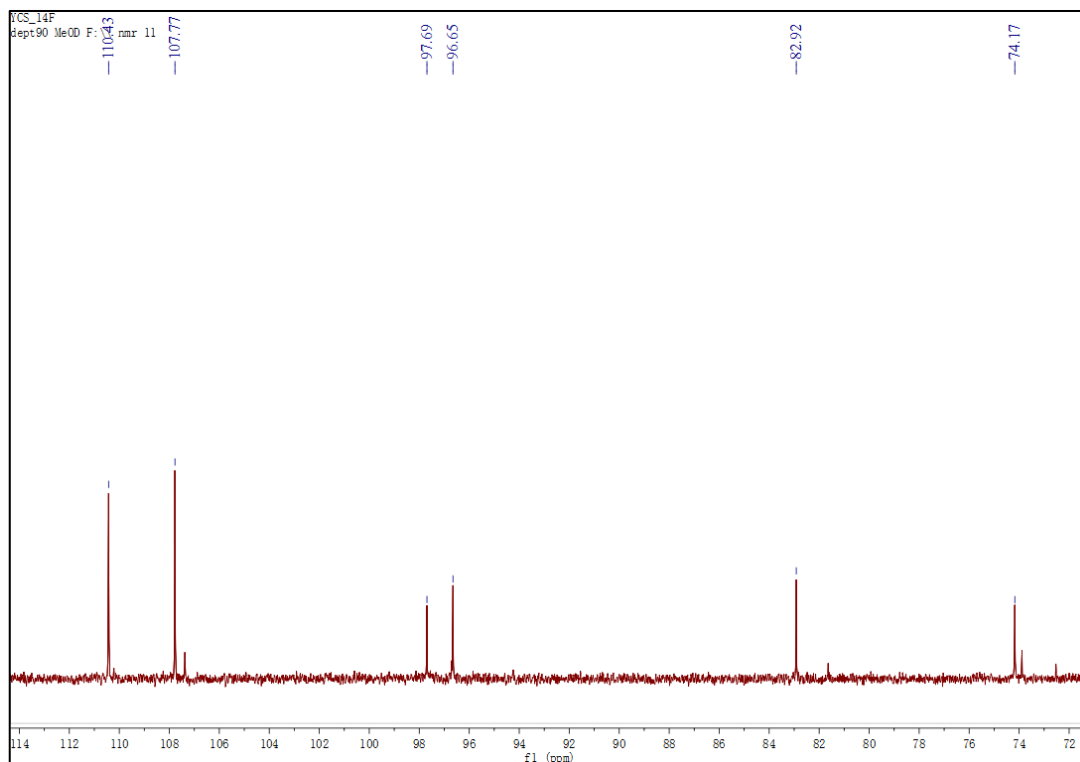


Fig.S6 The  $^{13}\text{C}$  DEPT90 NMR spectrum of angelique (1)

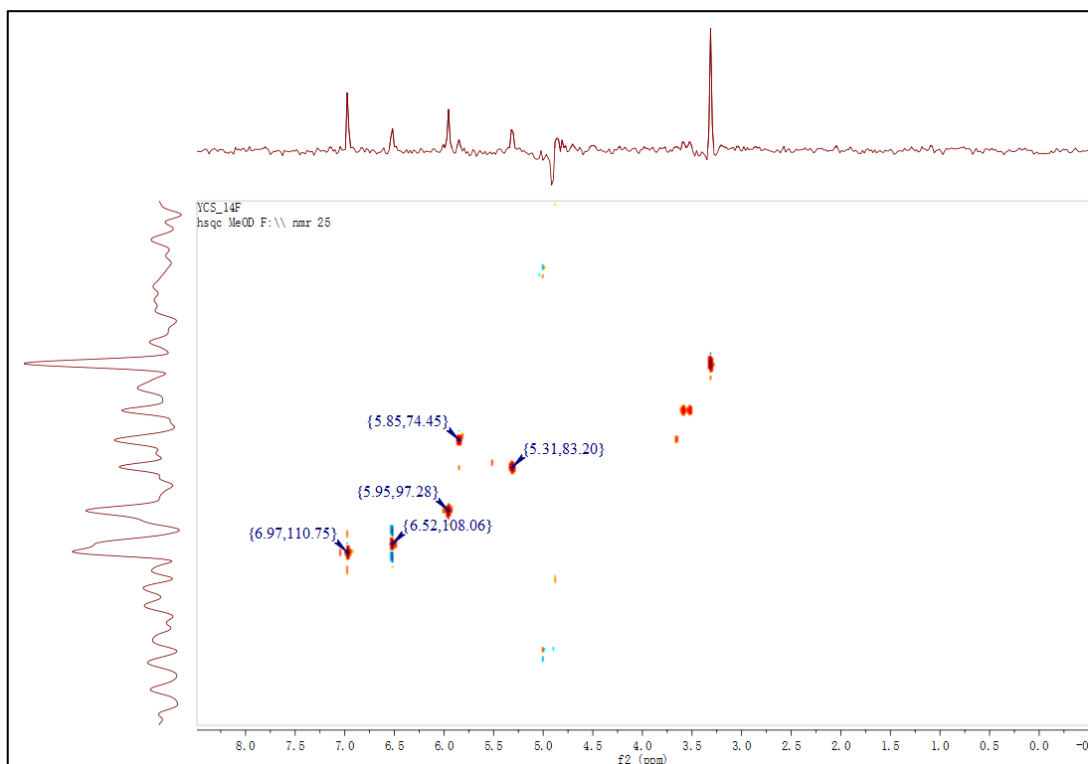


Fig.S7 The HSQC spectrum of angelique (1)

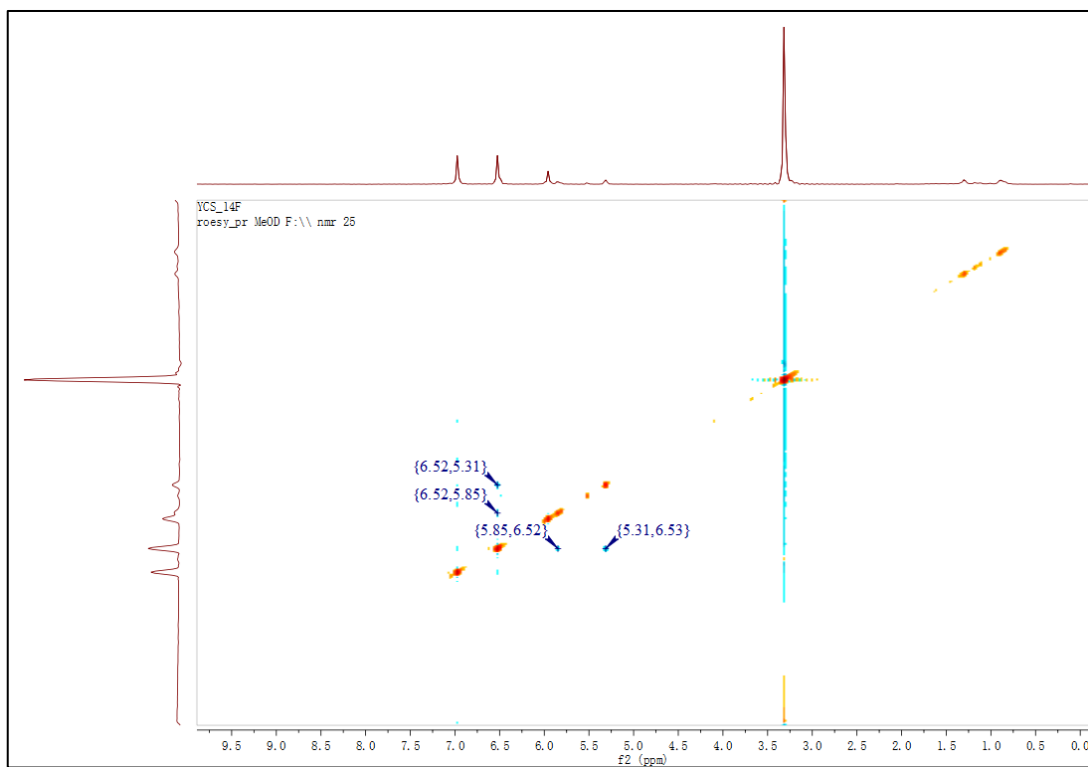


Fig.S8 The ROESY spectrum of angelique (1)



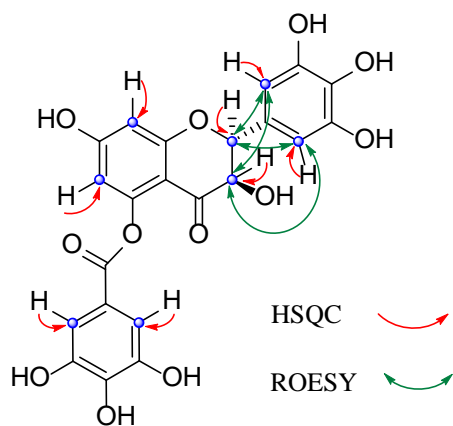


Fig. S9 Key HSQC and ROESY correlations of angelouine (1)

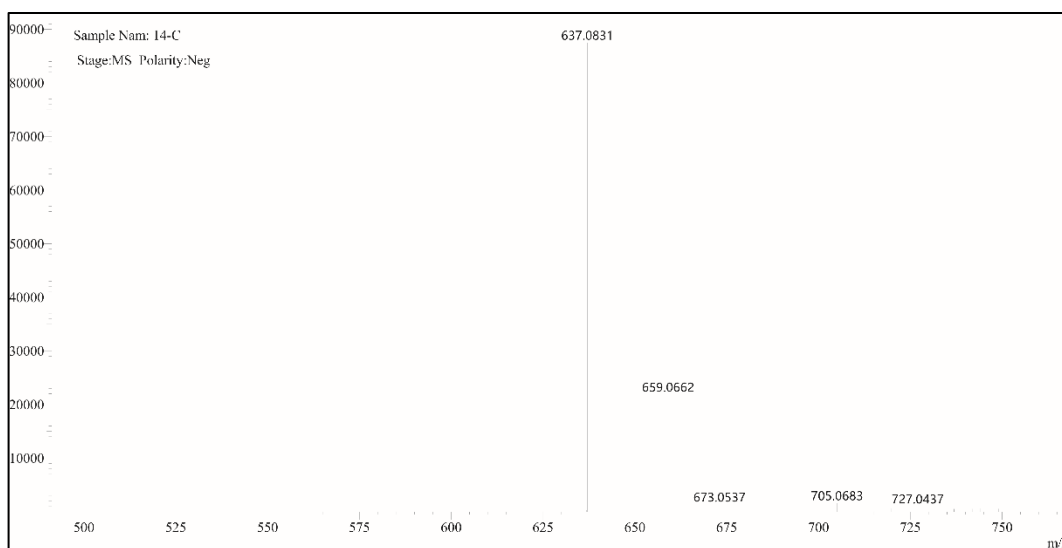


Fig.S10 The HRESIMS spectrum of cuminatanol (2)

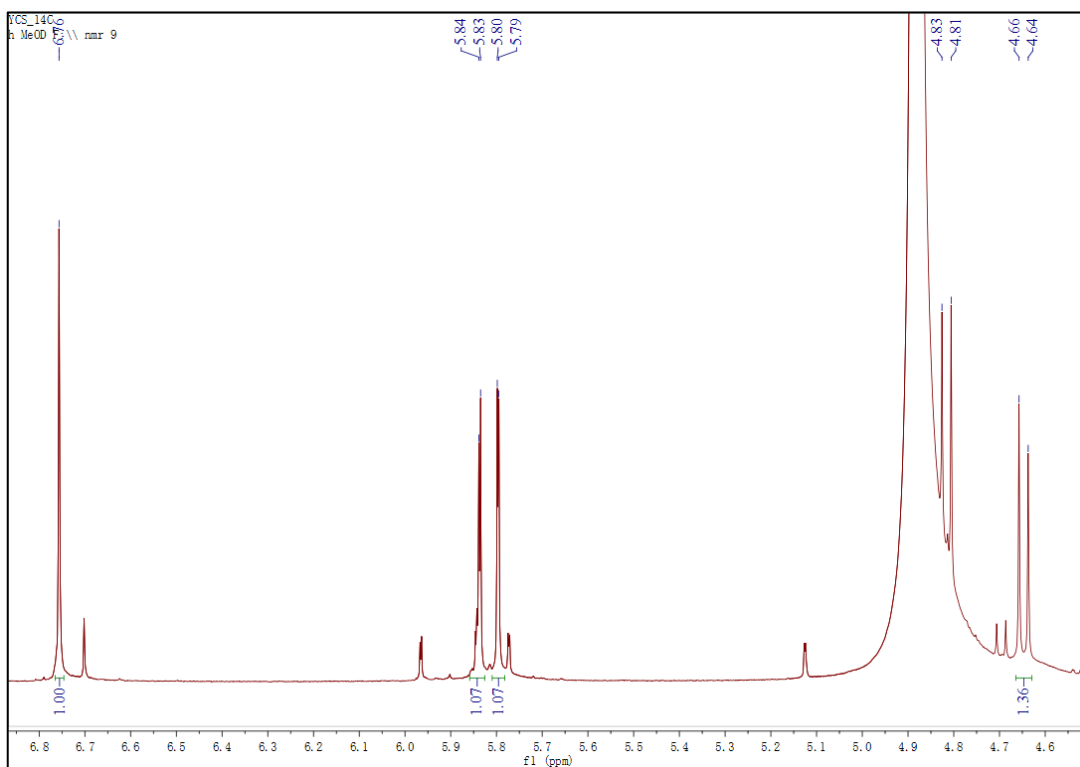


Fig.S11 The <sup>1</sup>H NMR spectrum of cuminatanol (2)

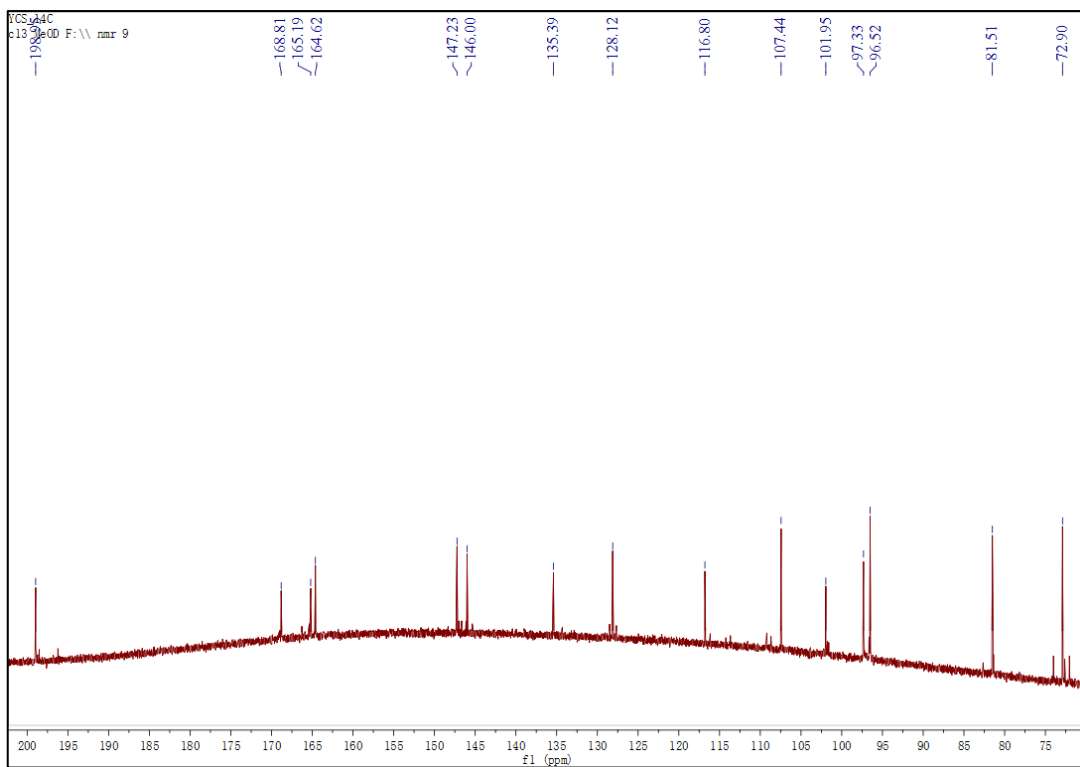


Fig.S12 The <sup>13</sup>C NMR spectrum of cuminatanol (2)

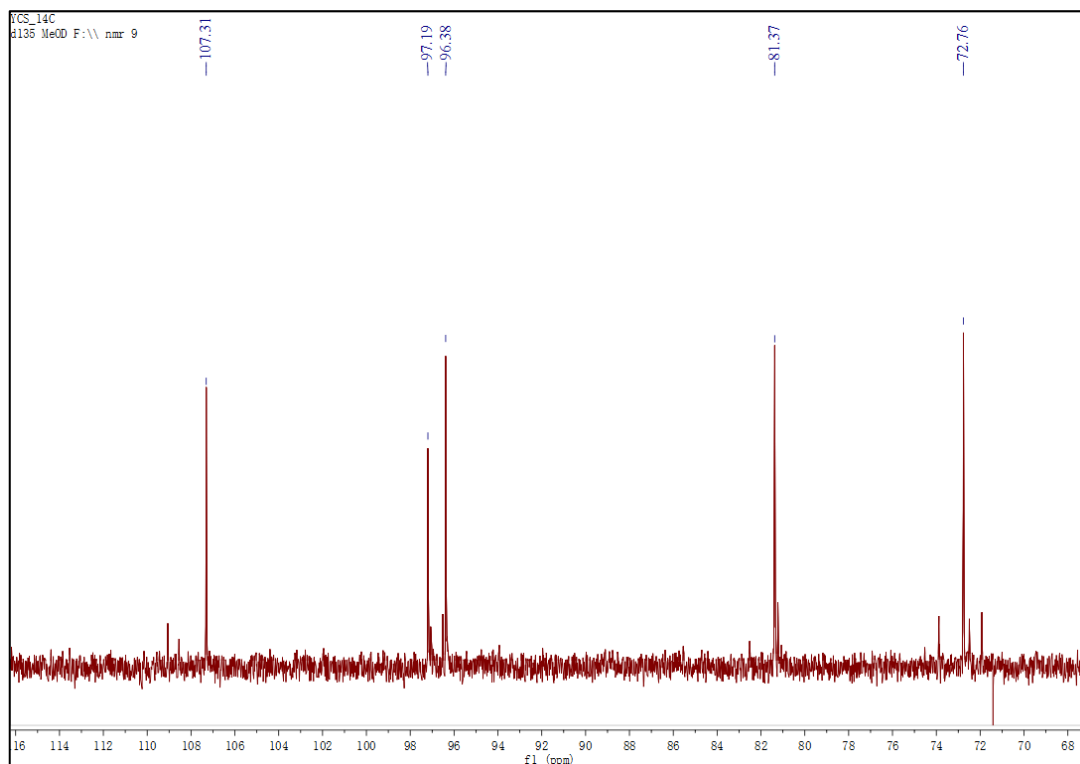


Fig.S13 The  $^{13}\text{C}$  DEPT135 NMR spectrum of cuminatanol (**2**)

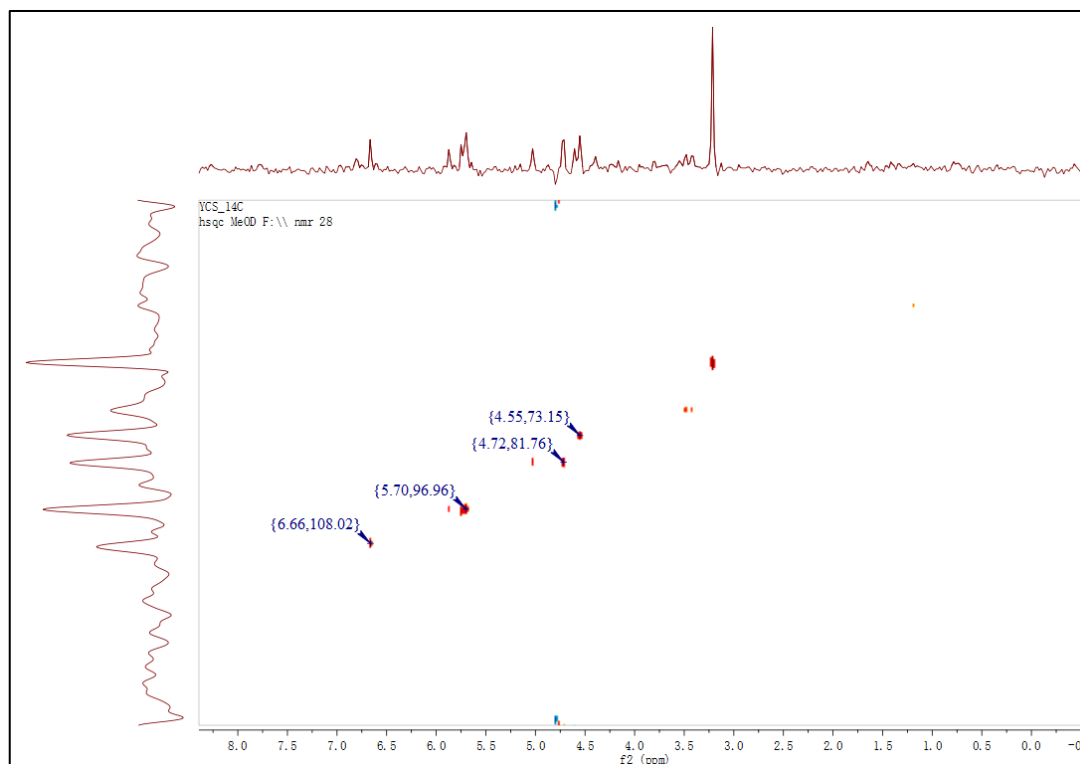


Fig.S14 The HSQC spectrum of cuminatanol (**2**)

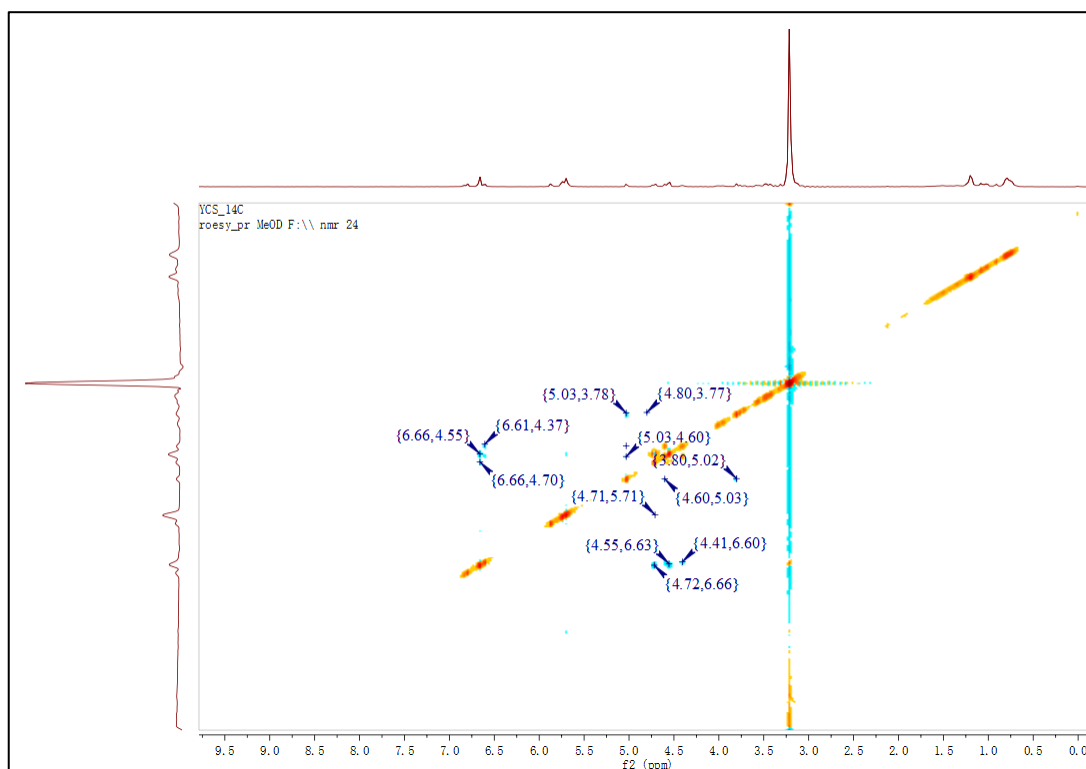


Fig.S15 The ROESY spectrum of cuminatanol (2)

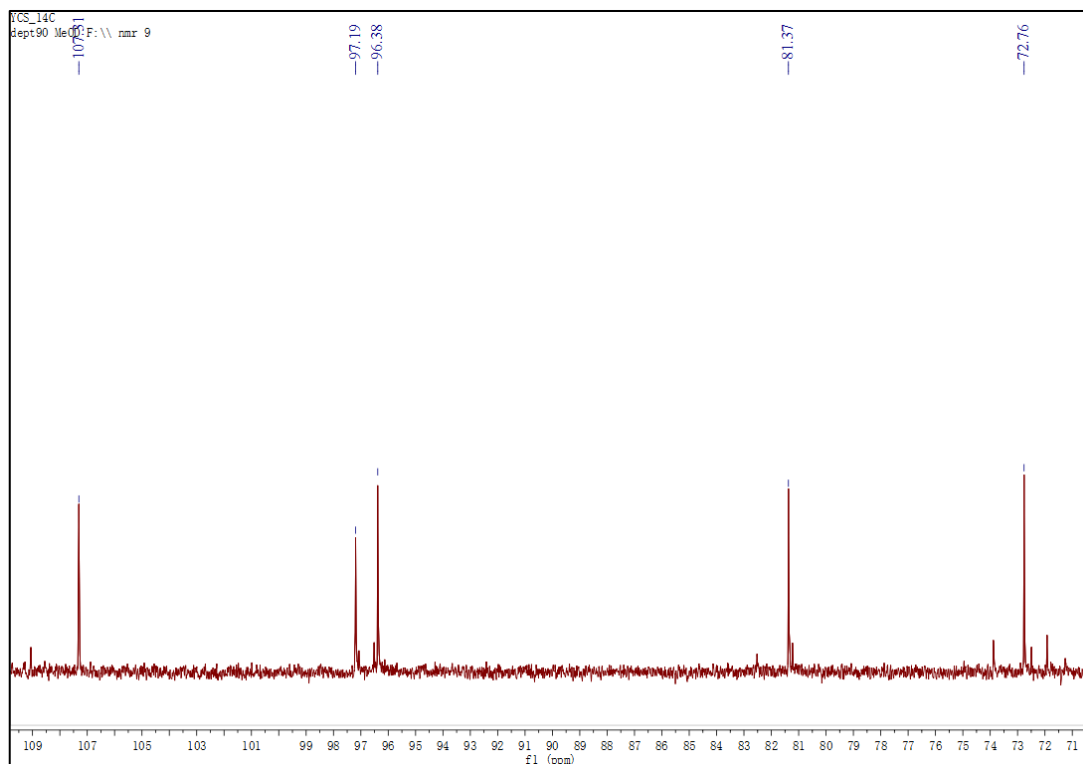


Fig.S16 The  $^{13}\text{C}$  DEPT90 NMR spectrum of cuminatanol (2)

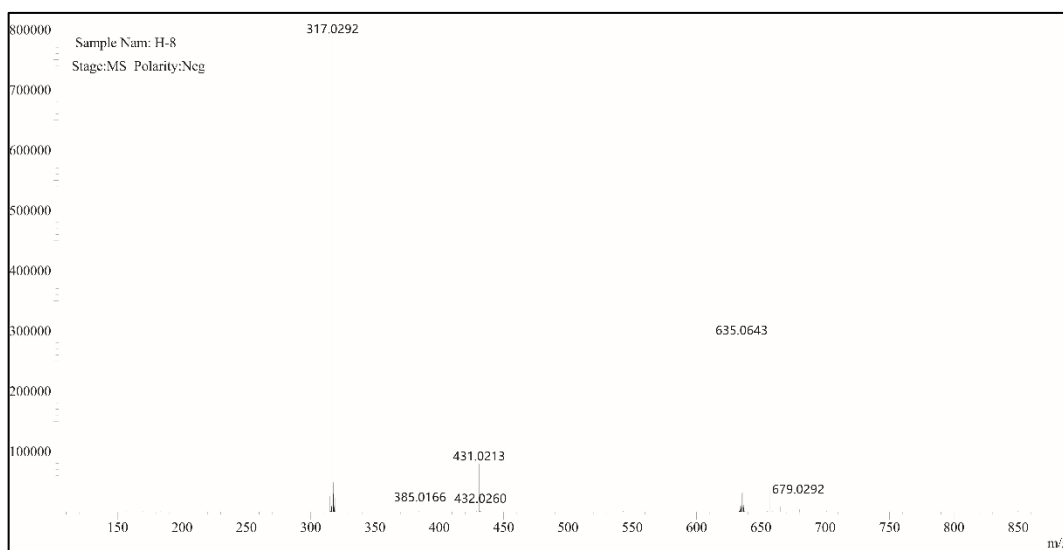


Fig.S17 The HRESIMS spectrum of myricetin (3)

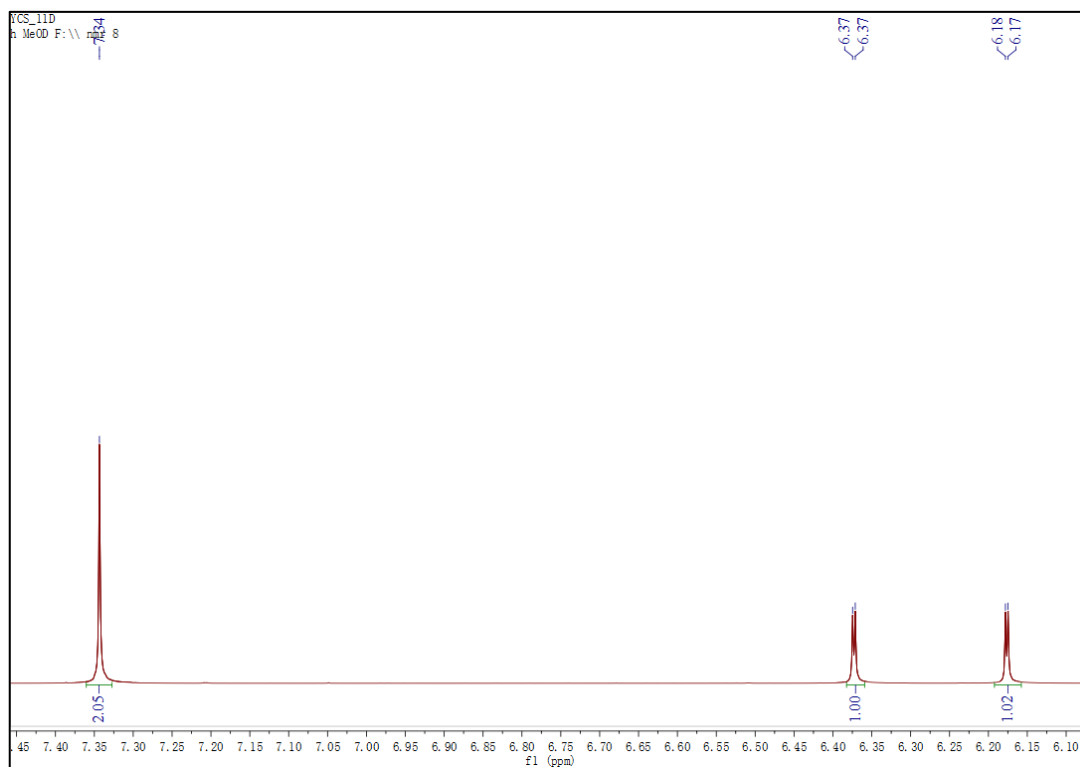


Fig.S18 The  $^1\text{H}$  NMR spectrum of myricetin (3)

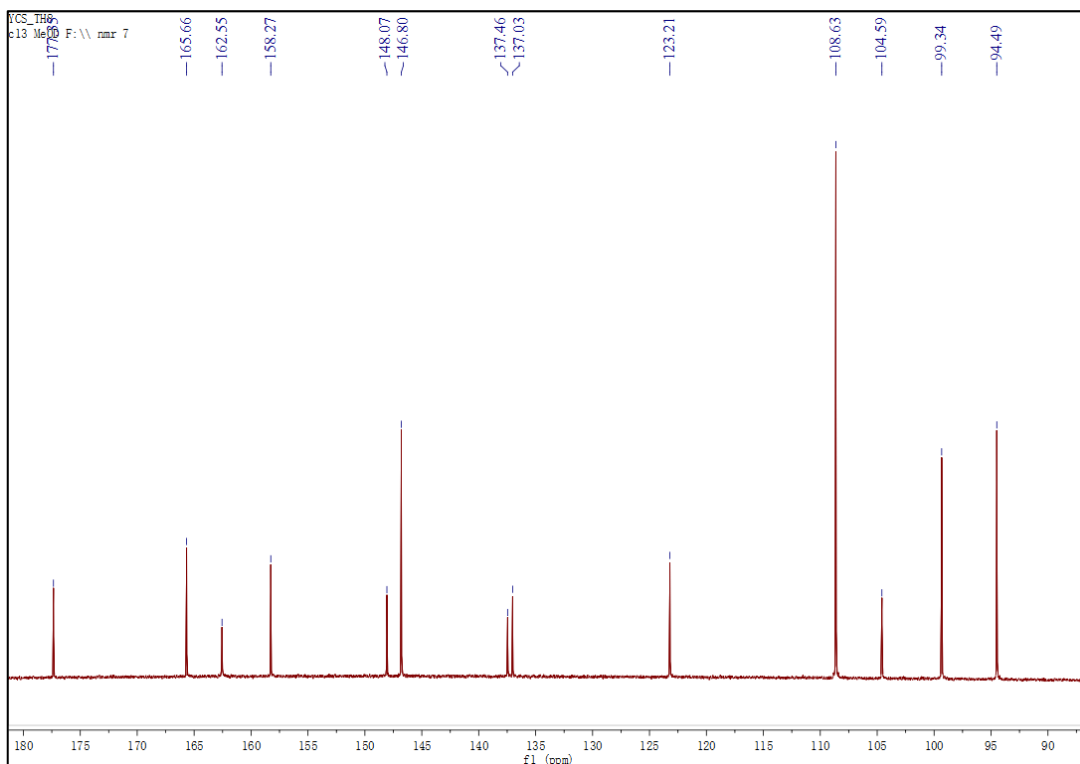


Fig.S19 The  $^{13}\text{C}$  NMR spectrum of myricetin (3)

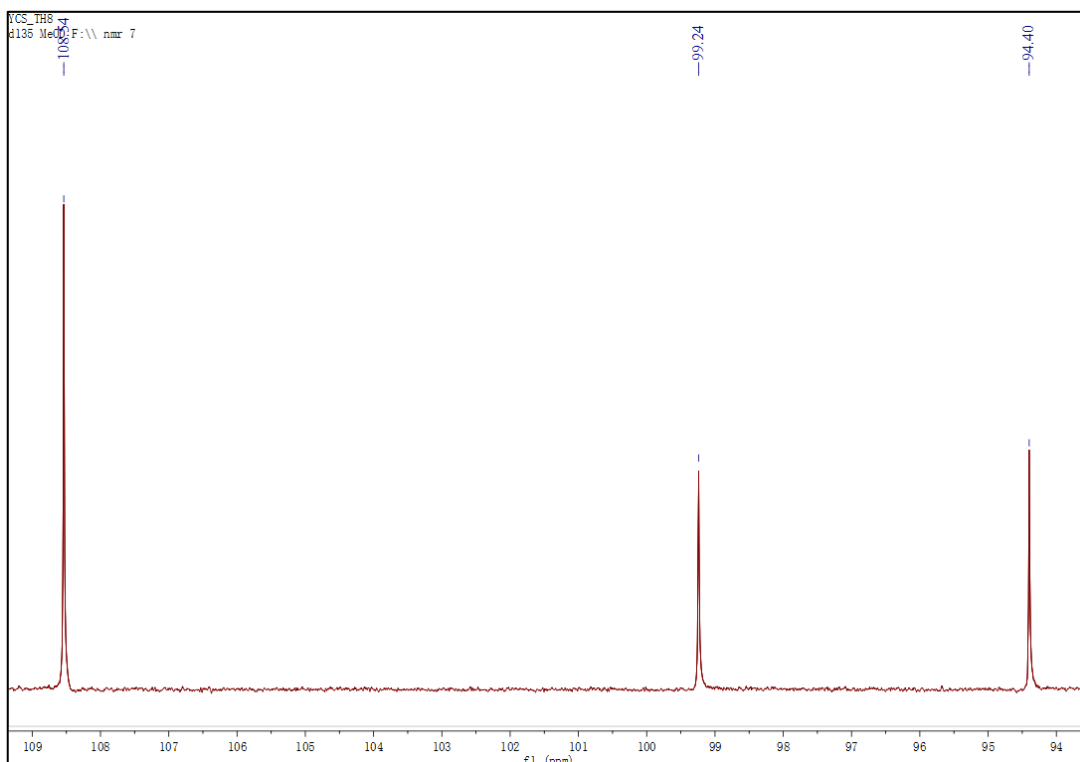


Fig.S20 The  $^{13}\text{C}$  DEPT135 NMR spectrum of myricetin (3)

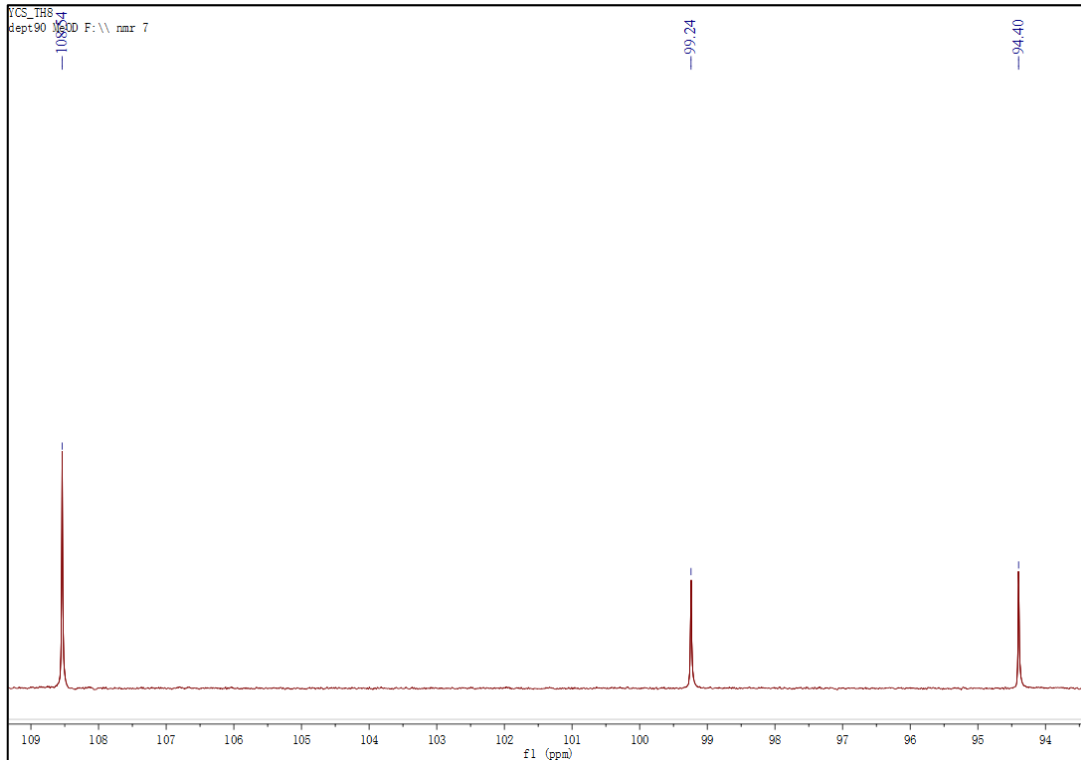


Fig.S21 The <sup>13</sup>C DEPT90 NMR spectrum of myricetin (3)

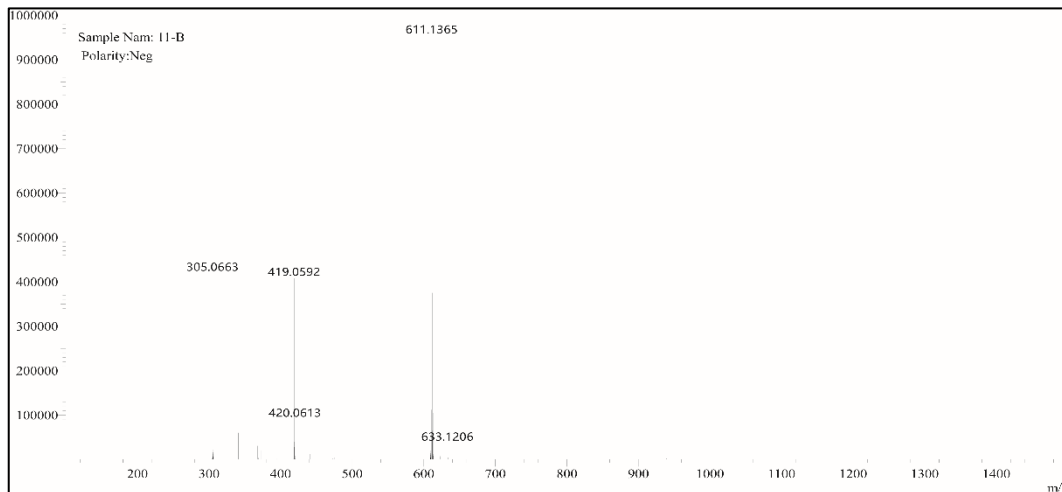


Fig.S22 The HRESIMS spectrum of epigallocatechin (4)

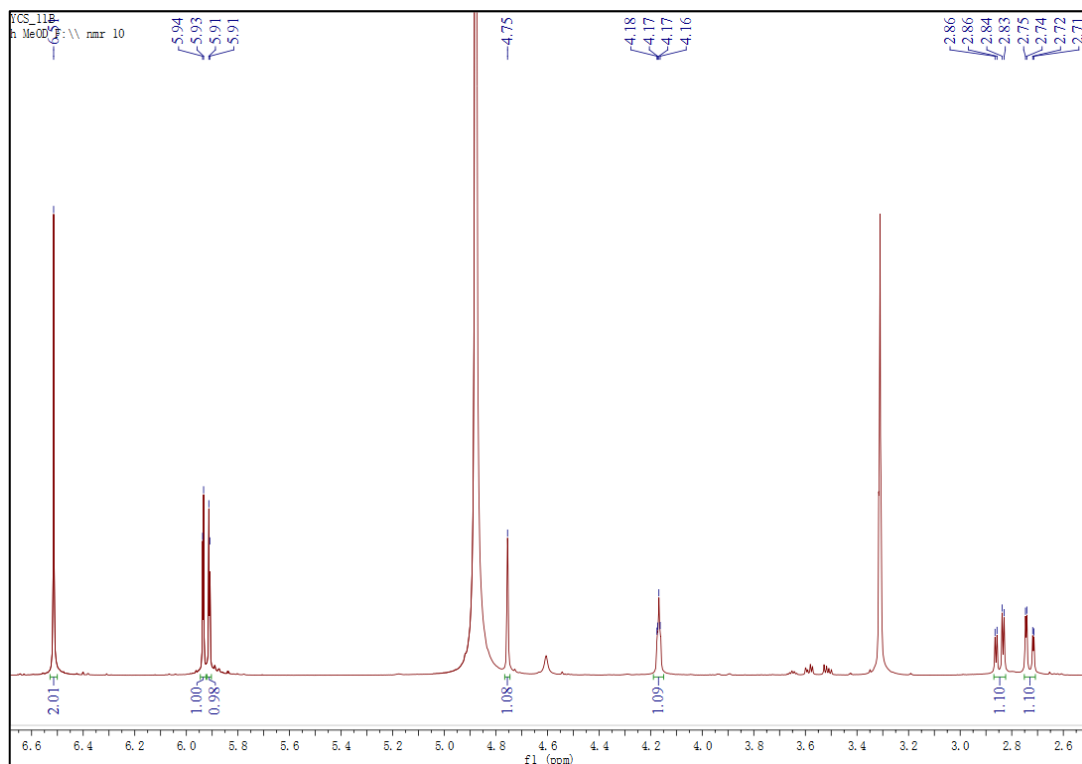


Fig.S23 The <sup>1</sup>H NMR spectrum of epigallocatechin (4)

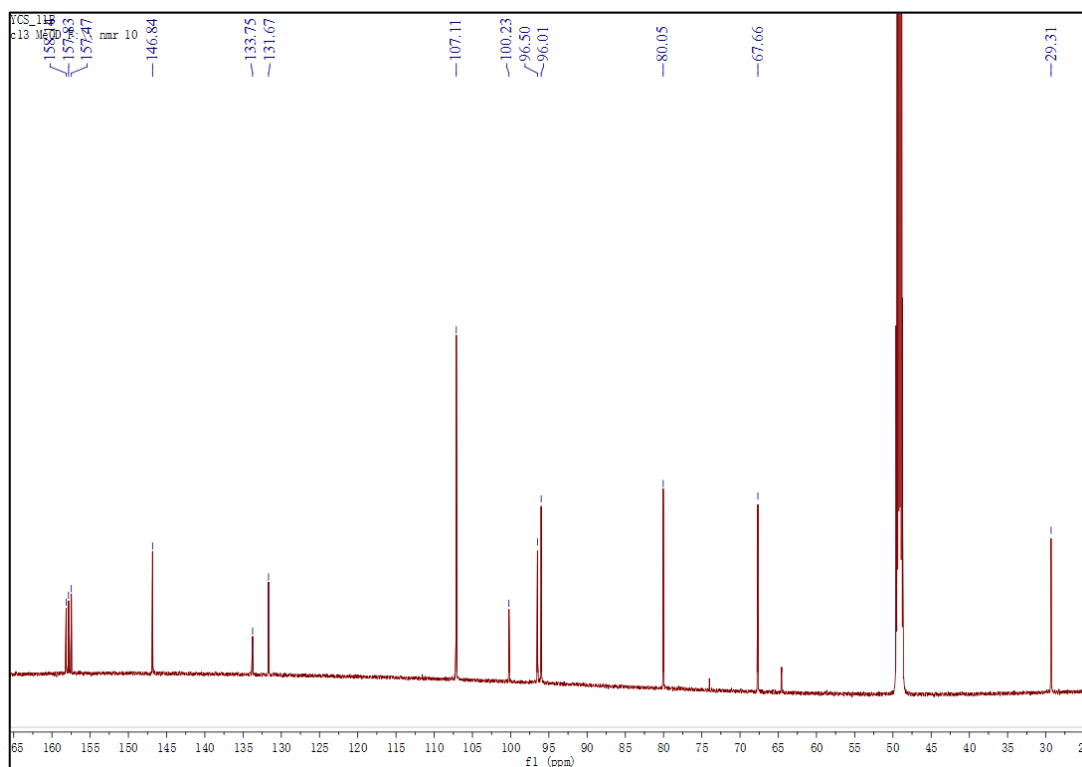


Fig.S24 The <sup>13</sup>C NMR spectrum of epigallocatechin (4)



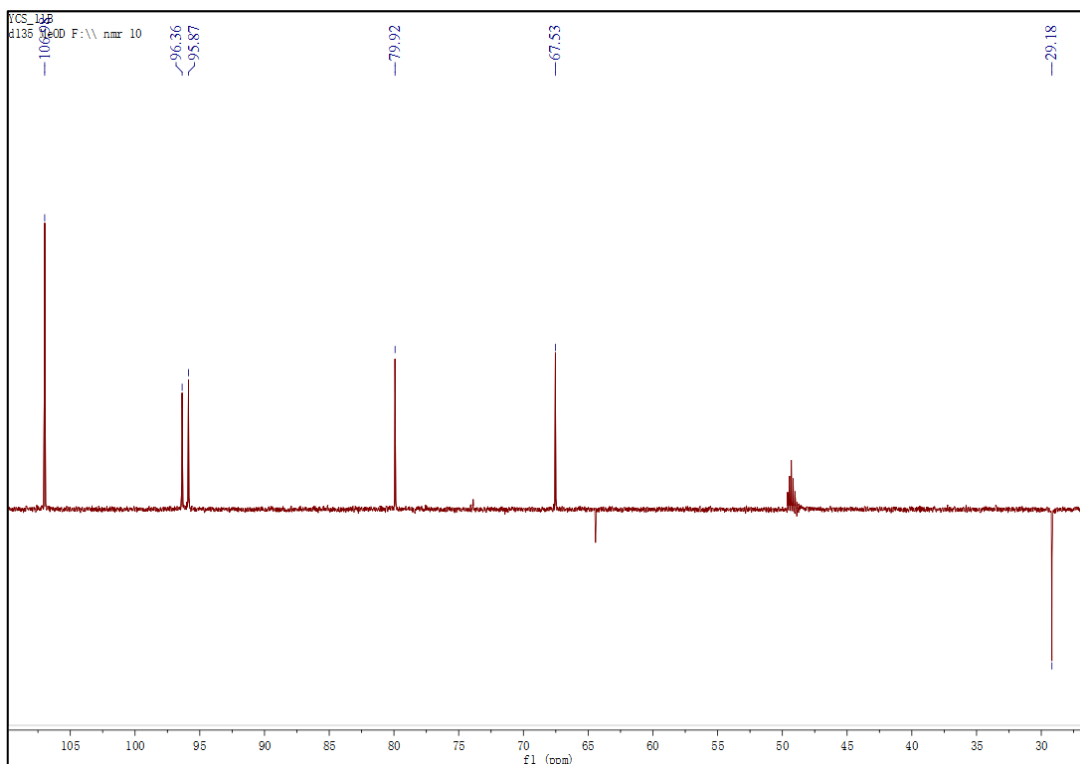


Fig.S25 The  $^{13}\text{C}$  DEPT135 NMR spectrum of epigallocatechin (4)

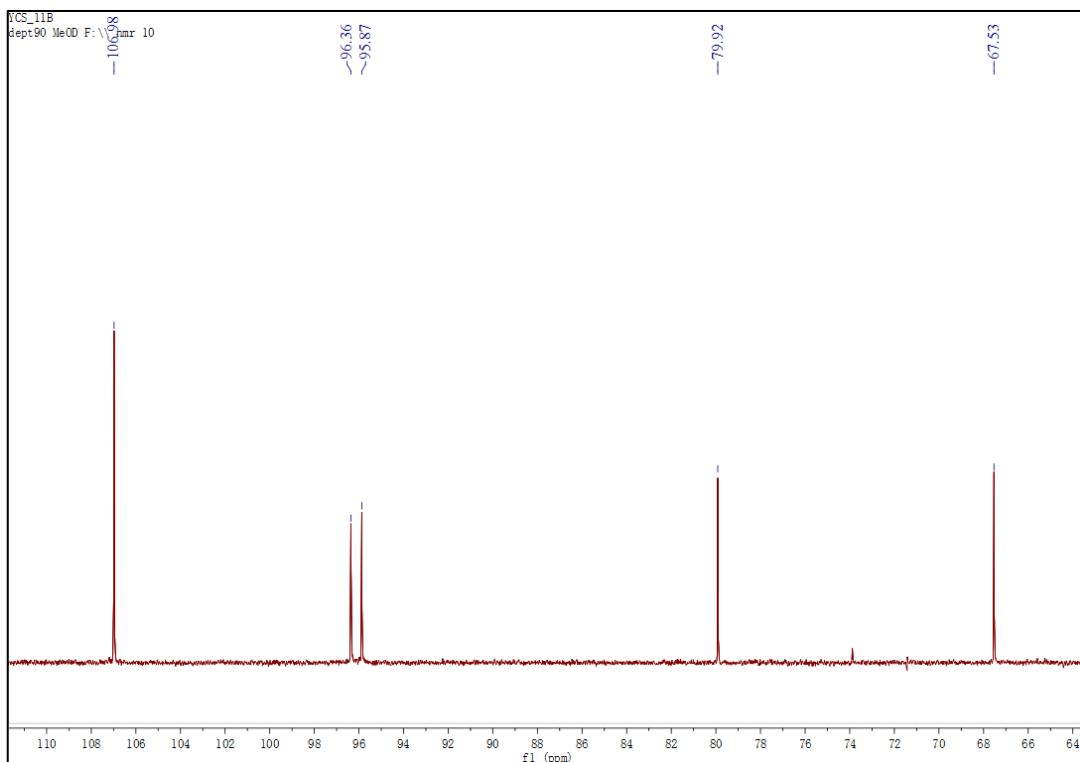


Fig.S26 The  $^{13}\text{C}$  DEPT90 NMR spectrum of epigallocatechin (4)

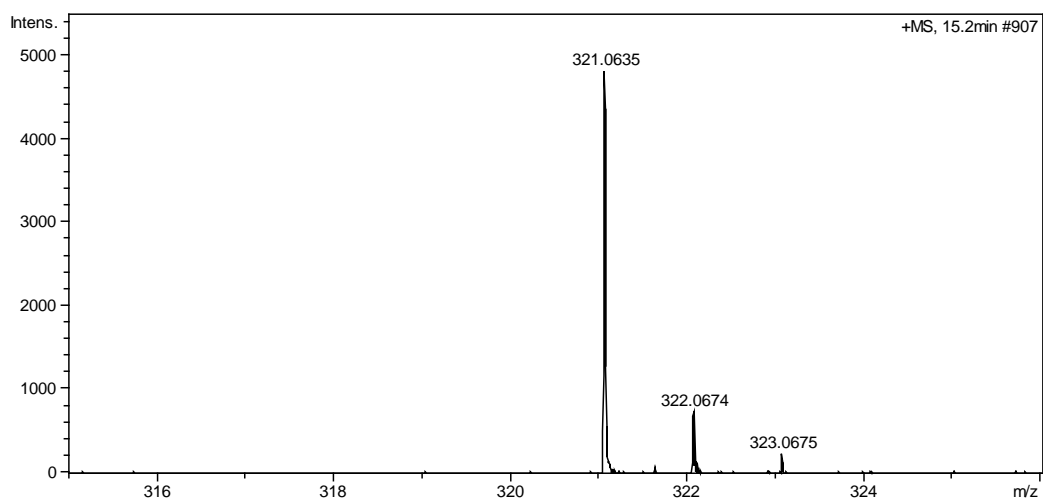


Fig.S27 The HRESIMS spectrum of Taxifolin (5)

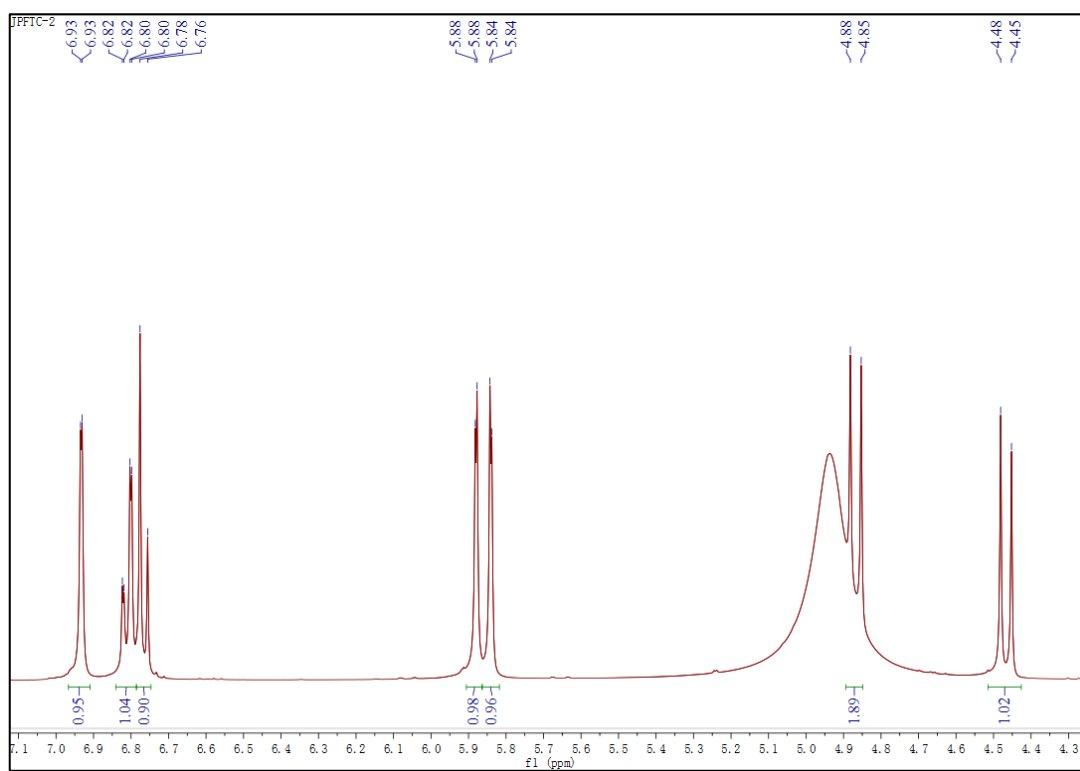


Fig.S28 The <sup>1</sup>H NMR spectrum of Taxifolin (5)

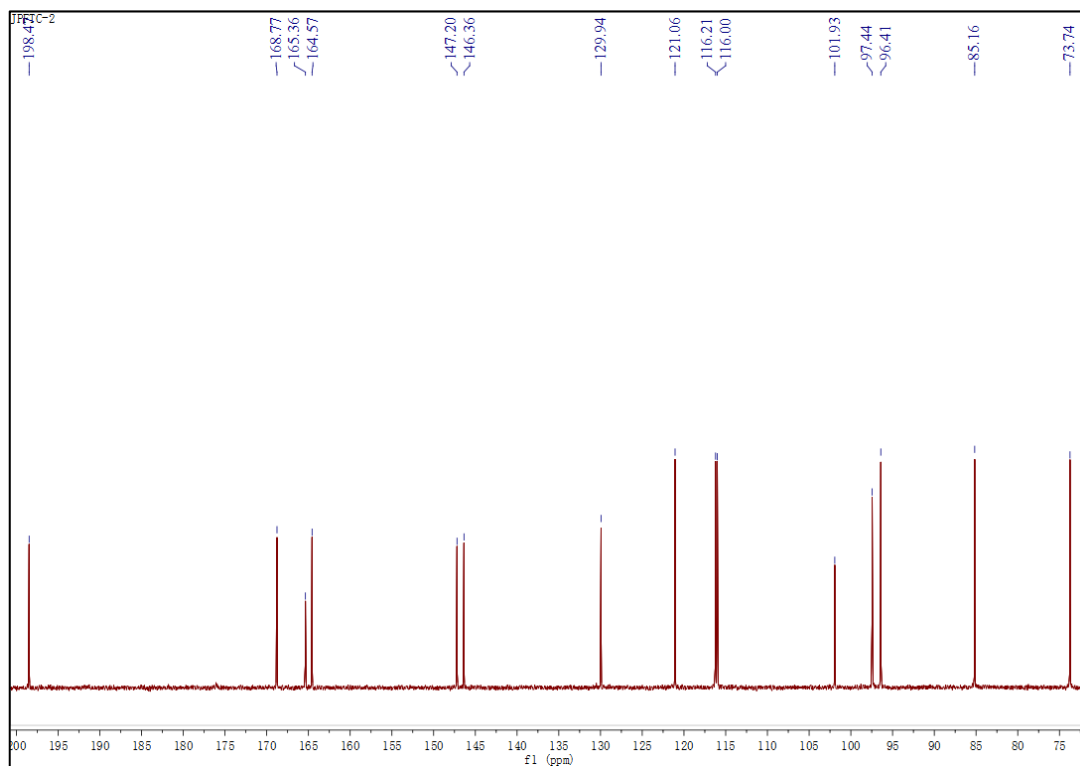


Fig.S29 The  $^{13}\text{C}$  NMR spectrum of Taxifolin (5)

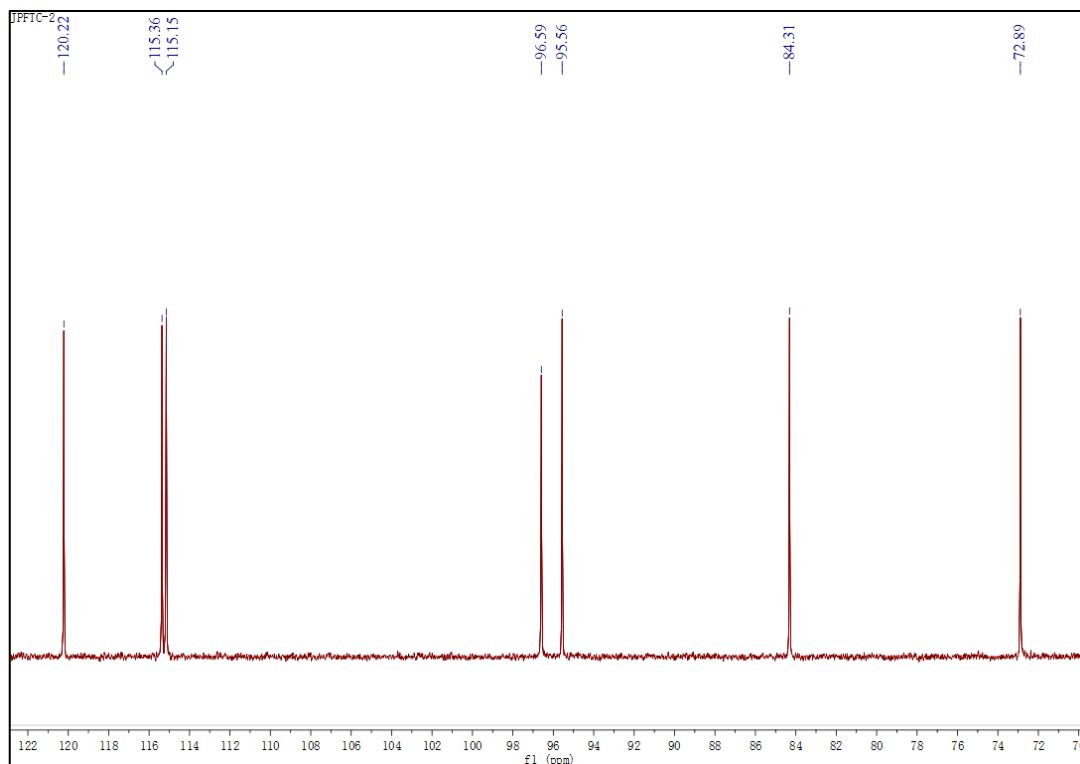


Fig.S30 The  $^{13}\text{C}$  DEPT135 NMR spectrum of Taxifolin (5)

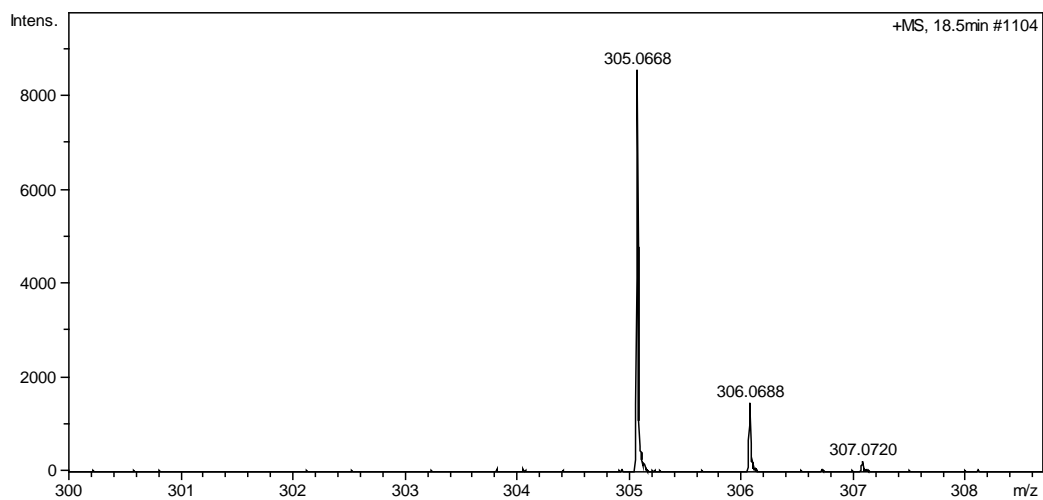


Fig.S31 The HRESIMS spectrum of dihydromyricetin (6)

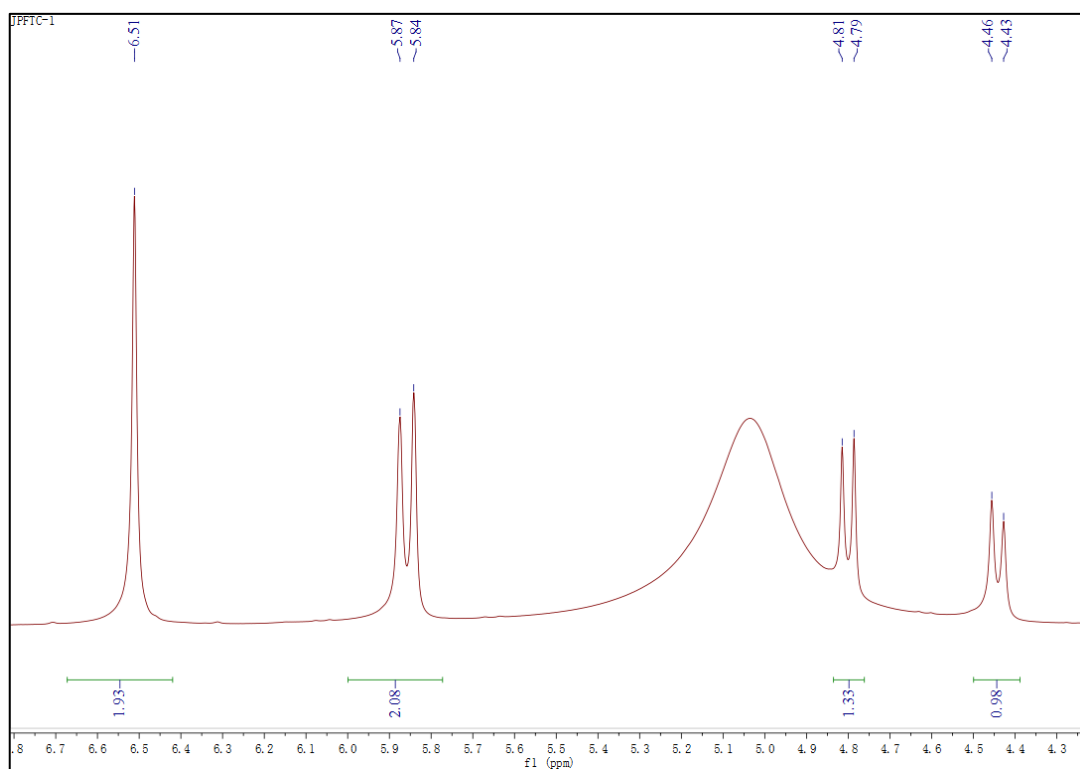


Fig.S32 The <sup>1</sup>H NMR spectrum of dihydromyricetin (6)

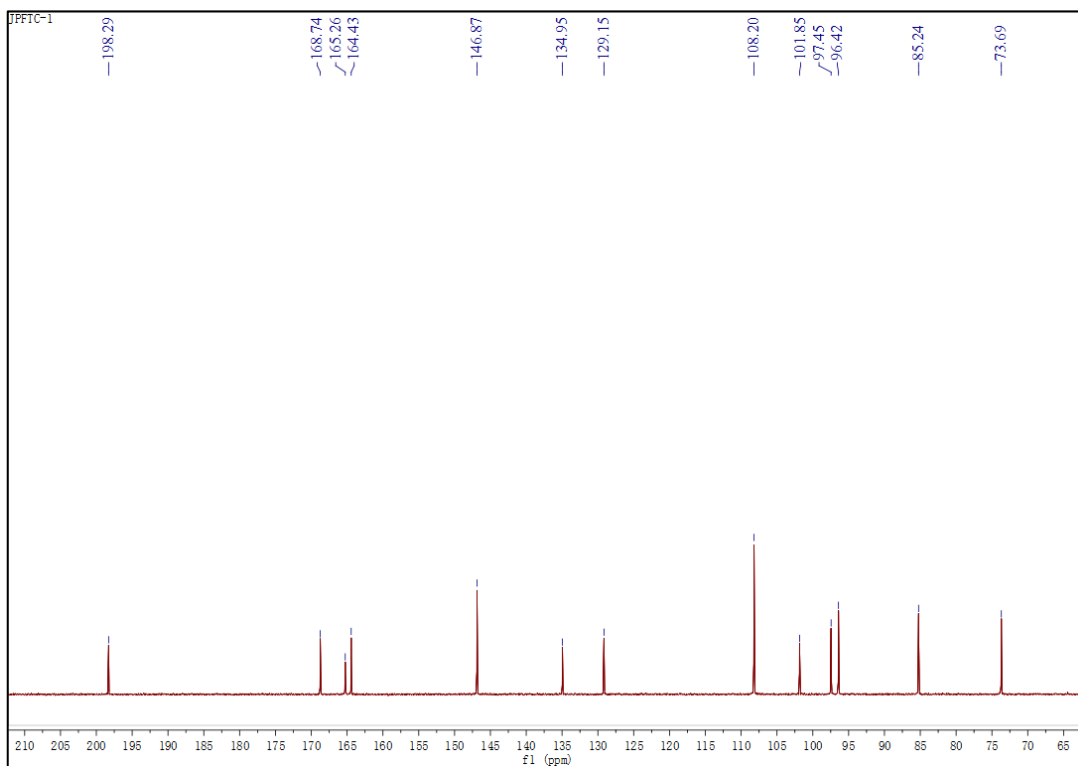


Fig.S33 The  $^{13}\text{C}$  NMR spectrum of dihydromyricetin (6)

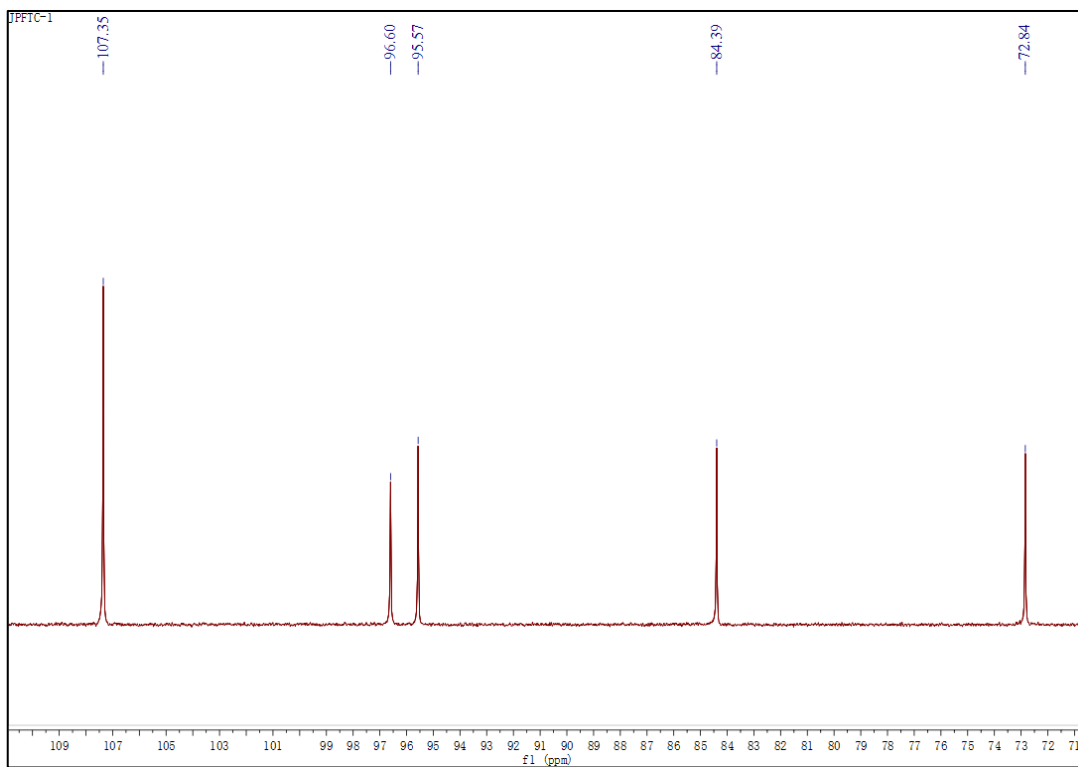


Fig.S34 The  $^{13}\text{C}$  DEPT135 NMR spectrum of dihydromyricetin (6)

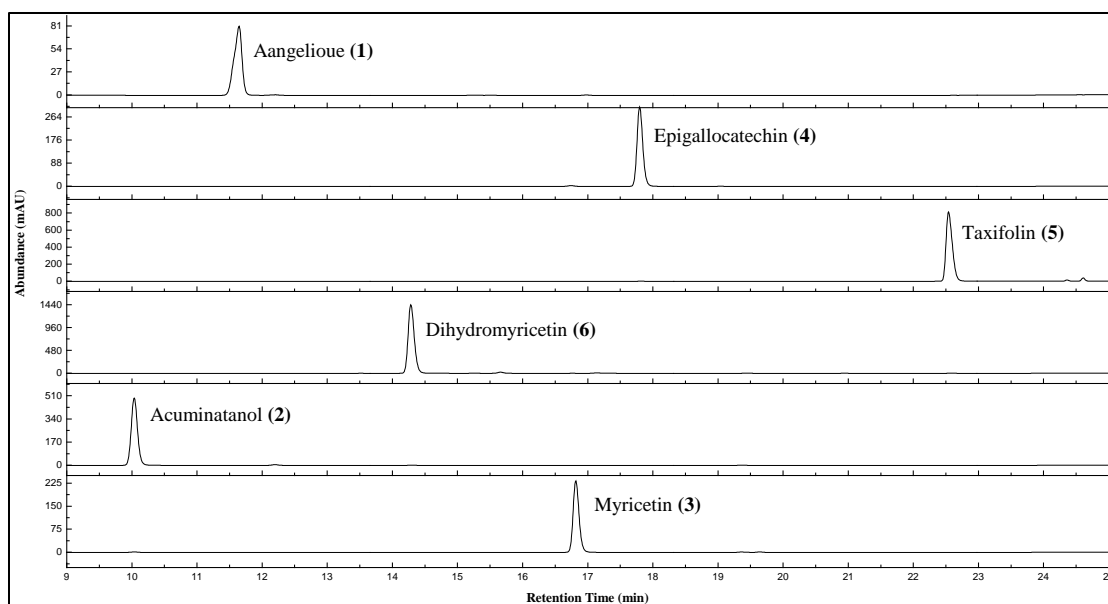


Fig. S35 HPLC Chromatogram of the isolated compound 1-6 from *A. grossedentata* callus

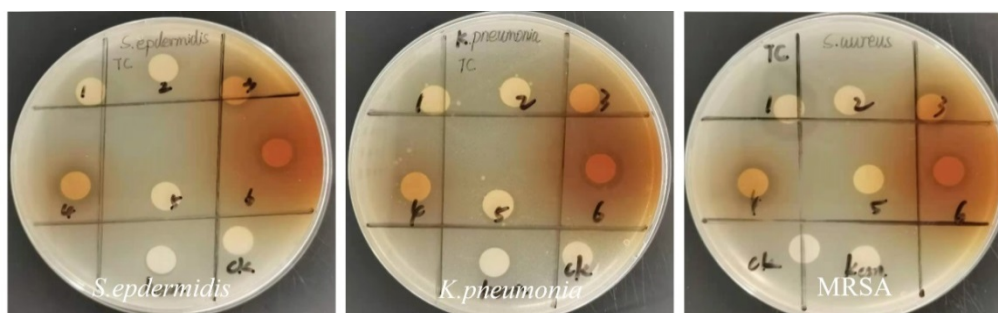


Fig.S36 Antibacterial activity of compound 1-6 using disc diffusion assay

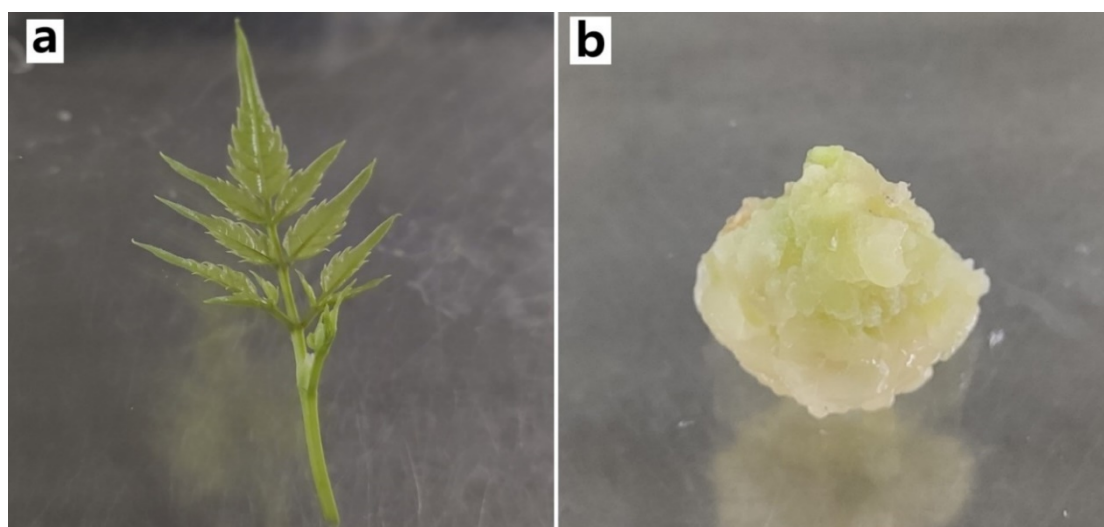


Fig. 37 The tender shoots and the induced calluses of *A. grossedentata*, (a) The tender shoot tip of *A. grossedentata*. (b) The calluses of *A. grossedentata*