

Supplementary Information

Table S1. Inhibition rates of compounds **1–10** in preliminary cytotoxicity test.

Table S2. Inhibition rates of compounds with anti-H1N1 virus activities in preliminary test.

Figure S1. Animal material: The *sarcophyton* sp. was collected from the South Sea (Weizhou Islands sea area, Guangxi, China) at a depth of 12 m. The specimen was identified by Professor Zou, R.L. (South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, China). The voucher specimen (NO. WZD-2010-03) was deposited at State Key Laboratory of Marine Drugs, Ocean University of China, Qingdao, China.

Figure S2. The positive HRESIMS spectrum of compound **(1)**.

Figure S3. ^1H -NMR (600 MHz, CDCl_3) spectrum of compound **(1)**.

Figure S4. The amplificatory ^1H NMR (600 MHz, CDCl_3) spectrum of compound **(1)**.

Figure S5. ^1H -NMR (600 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound **(1)**.

Figure S6. The amplificatory ^1H NMR (600 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound **(1)**.

Figure S7. ^{13}C -NMR (150 MHz, CDCl_3) spectrum of compound **(1)**.

Figure S8. DEPT (150 MHz, CDCl_3) spectrum of compound **(1)**.

Figure S9. ^1H - ^1H COSY spectrum of compound **(1)**.

Figure S10. HMQC spectrum of compound **(1)**.

Figure S11. HMBC spectrum of compound **(1)**.

Figure S12. NOESY spectrum of compound **(1)**.

Figure S13. The positive HRESIMS spectrum of compound **(2)**.

Figure S14. ^1H -NMR (600 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound **(2)**.

Figure S15. The amplificatory ^1H NMR (600 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound **(2)**.

Figure S16. ^{13}C -NMR (150 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound **(2)**.

Figure S17. DEPT (150 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound **(2)**.

Figure S18. ^1H - ^1H COSY spectrum of compound **(2)**.

Figure S19. HMQC spectrum of compound **(2)**.

Figure S20. HMBC spectrum of compound **(2)**.

Figure S21 NOESY spectrum of compound **(2)**.

Figure S22. The positive HRESIMS spectrum of compound **(3)**.

Figure S23. ^1H -NMR (600 MHz, CDCl_3) spectrum of compound **(3)**.

Figure S24. The amplificatory ^1H NMR (600 MHz, CDCl_3) spectrum of compound **(3)**.

Figure S25. ^{13}C -NMR (150 MHz, CDCl_3) spectrum of compound **(3)**.

Figure S26. DEPT (150 MHz, CDCl_3) spectrum of compound **(3)**.

Figure S27. ^1H - ^1H COSY spectrum of compound **(3)**.

Figure S28. HMQC spectrum of compound **(3)**.

Figure S29. HMBC spectrum of compound **(3)**.

Figure S30. NOESY spectrum of compound **(3)**.

Table S1. Inhibition rates of compounds 1–10 in preliminary cytotoxicity test.

	K562		HL-60		HeLa	
	Inhibition Ratio (%)	OD Value	Inhibition Ratio (%)	OD Value	Inhibition Ratio (%)	OD Value
Adramycin (1 μ M)	80.17	0.31 \pm 0.00	85.85	0.18 \pm 0.00	54.89	0.84 \pm 0.02
1 (50 μ M)	91.43	0.13 \pm 0.00	55.49	0.57 \pm 0.06	47.33	0.96 \pm 0.04
2 (50 μ M)	89.99	0.15 \pm 0.01	25.72	0.95 \pm 0.03	46.45	0.98 \pm 0.09
3 (50 μ M)	91.07	0.13 \pm 0.00	50.65	0.63 \pm 0.02	64.35	0.65 \pm 0.05
4 (50 μ M)	76.23	0.36 \pm 0.00	42.79	0.73 \pm 0.01	-9.90	2.00 \pm 0.05
5 (50 μ M)	91.05	0.14 \pm 0.00	51.25	0.62 \pm 0.01	17.52	1.50 \pm 0.02
6 (50 μ M)	91.69	0.13 \pm 0.00	63.28	0.47 \pm 0.02	77.05	0.42 \pm 0.01
7 (50 μ M)	90.74	0.14 \pm 0.00	52.77	0.60 \pm 0.01	36.45	1.16 \pm 0.03
8 (50 μ M)	90.90	0.14 \pm 0.00	47.62	0.67 \pm 0.06	74.62	0.46 \pm 0.06
9 (50 μ M)	68.10	0.48 \pm 0.01	31.68	0.87 \pm 0.01	-1.24	1.84 \pm 0.07
10 (50 μ M)	65.31	0.52 \pm 0.02	28.96	0.91 \pm 0.02	28.33	1.31 \pm 0.06

Table S2. Inhibition rates of compounds with anti-H1N1 virus activities in preliminary test.

	Concentration (μ g/mL)	Inhibition Ratio (%)
Ribavirin	50	72.4
4	50	54.3
5	50	30.5
9	50	52.7
10	50	48.6

Figure S1. Animal material: The *sarcophyton* sp. was collected from the South Sea (Weizhou Islands sea area, Guangxi, China) at a depth of 12 m. The specimen was identified by Professor Zou, R.L. (South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, China). The voucher specimen (NO. WZD-2010-03) was deposited at State Key Laboratory of Marine Drugs, Ocean University of China, Qingdao, China.

*Sarcophyton* sp.

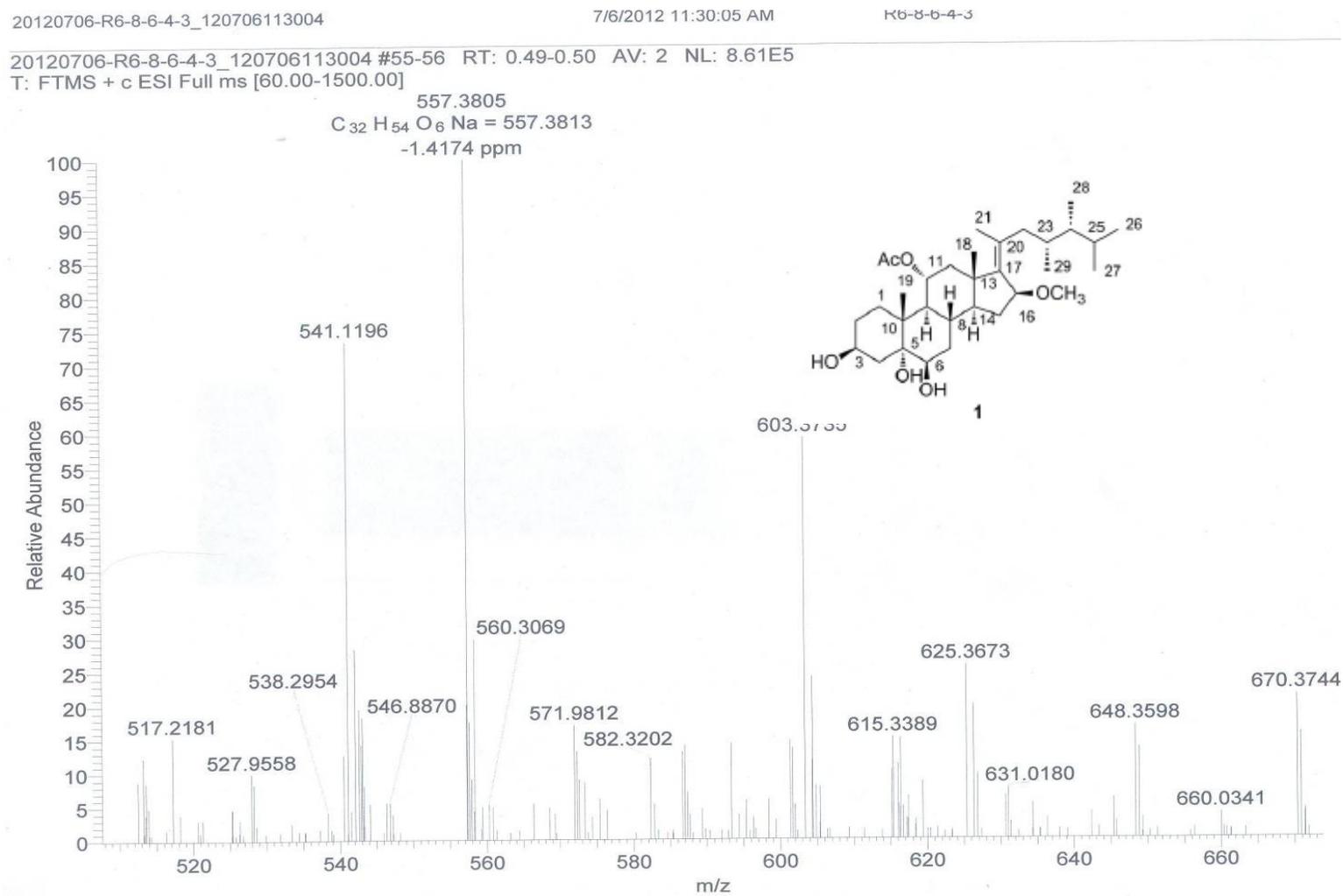
Figure S2. The positive HRESIMS spectrum of compound (1).

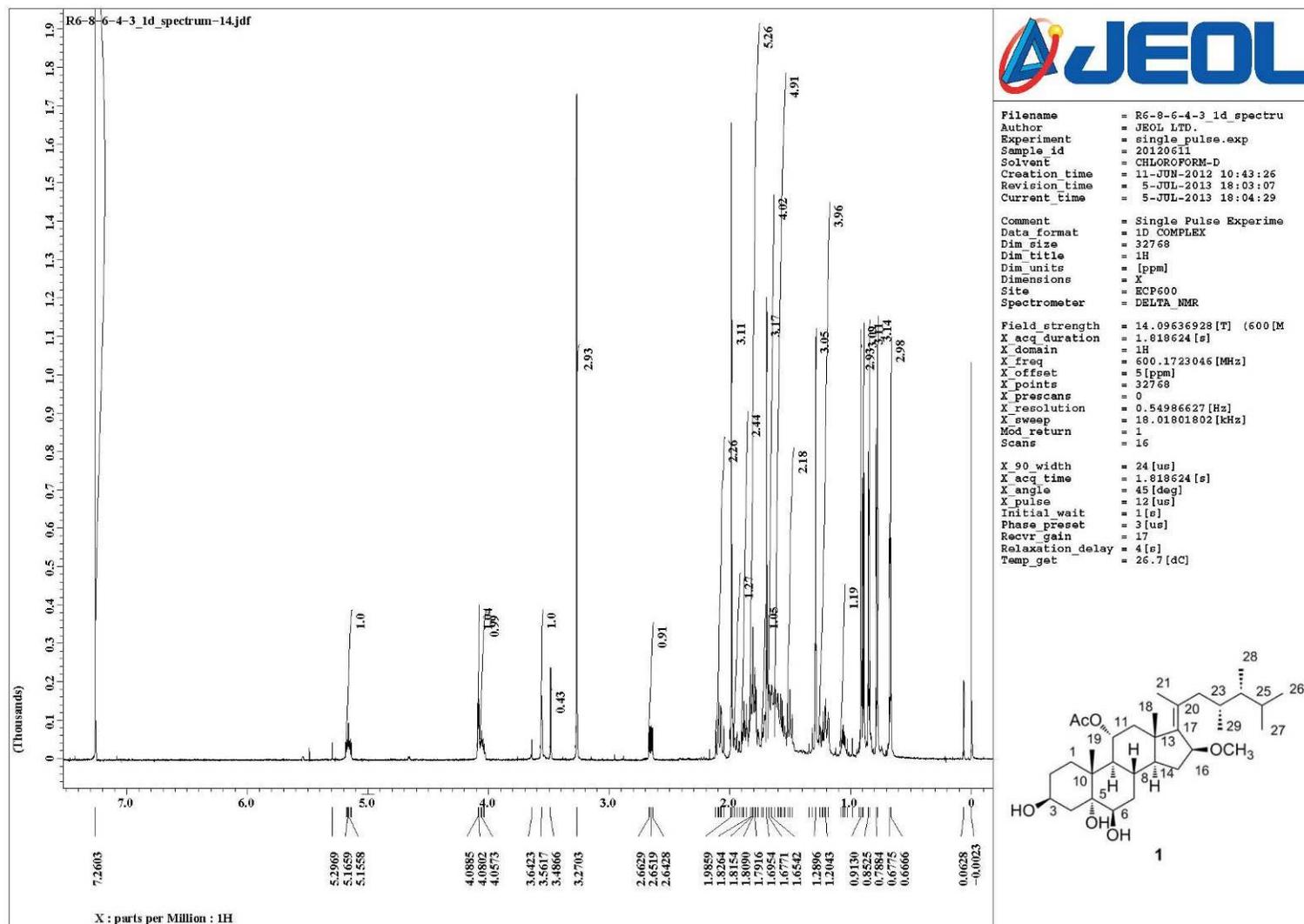
Figure S3. $^1\text{H-NMR}$ (600 MHz, CDCl_3) spectrum of compound (1).

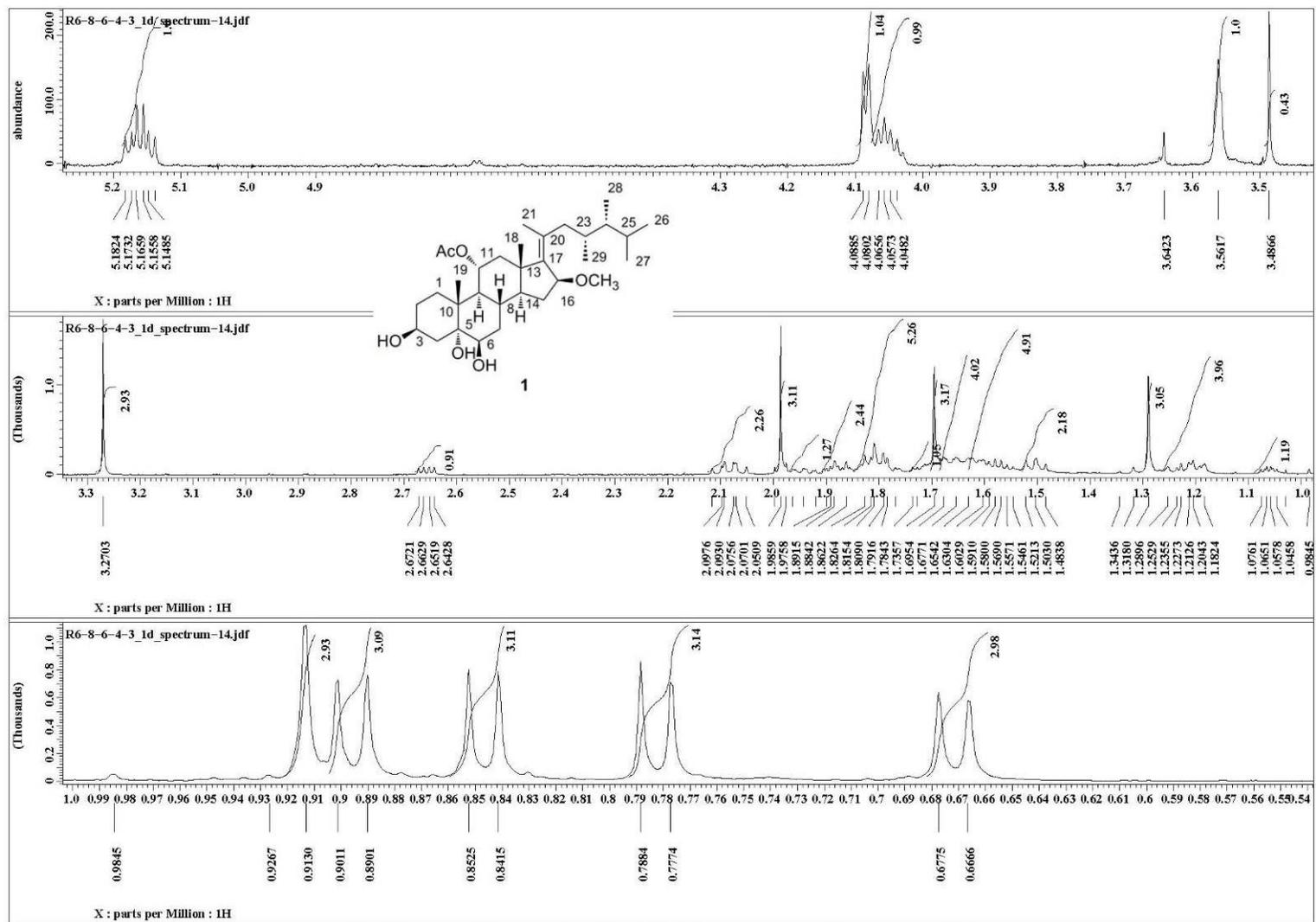
Figure S4. The amplificatory ^1H NMR (600 MHz, CDCl_3) spectrum of compound (1).

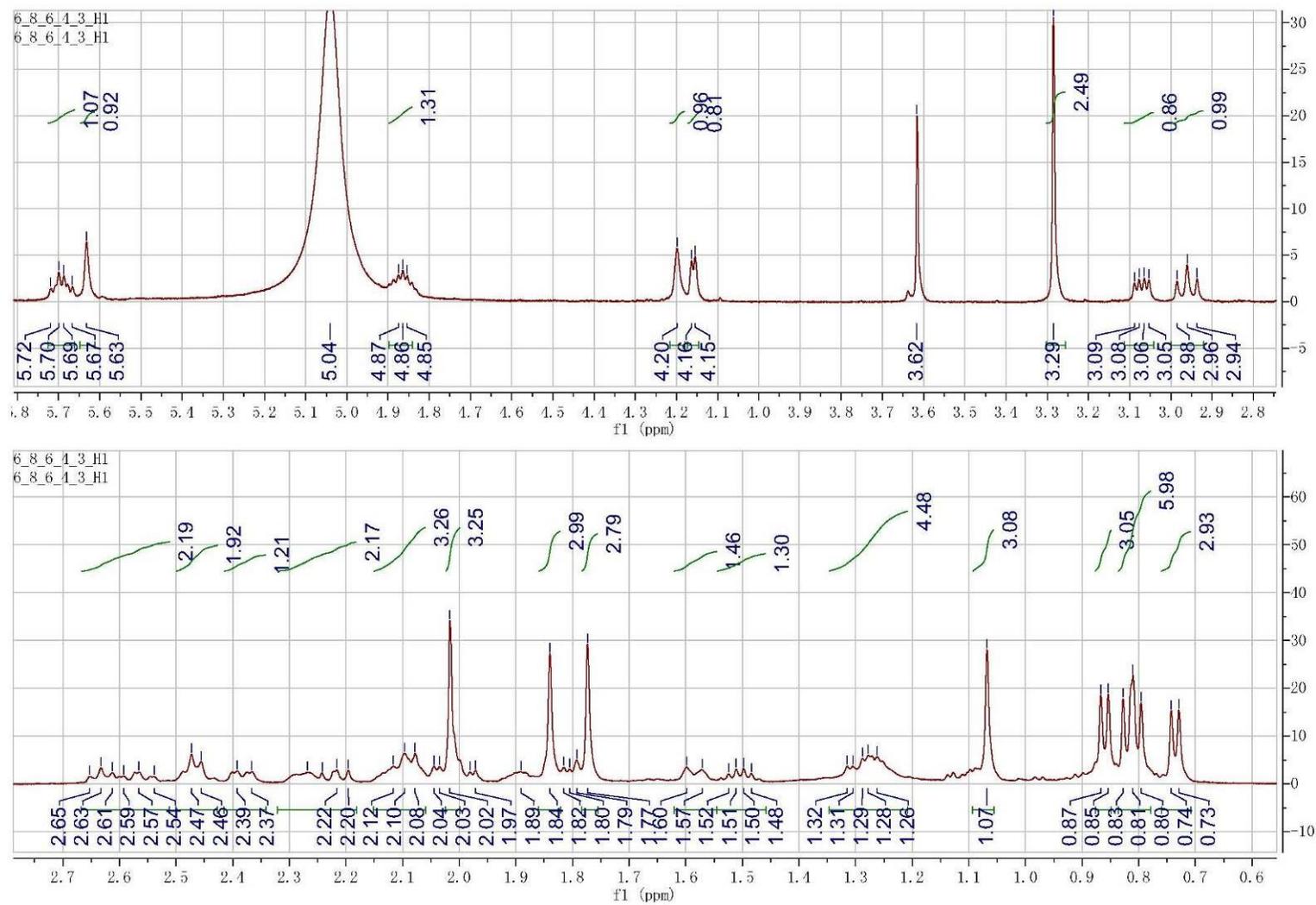
Figure S6. The amplificatory ^1H NMR (600 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound (1).

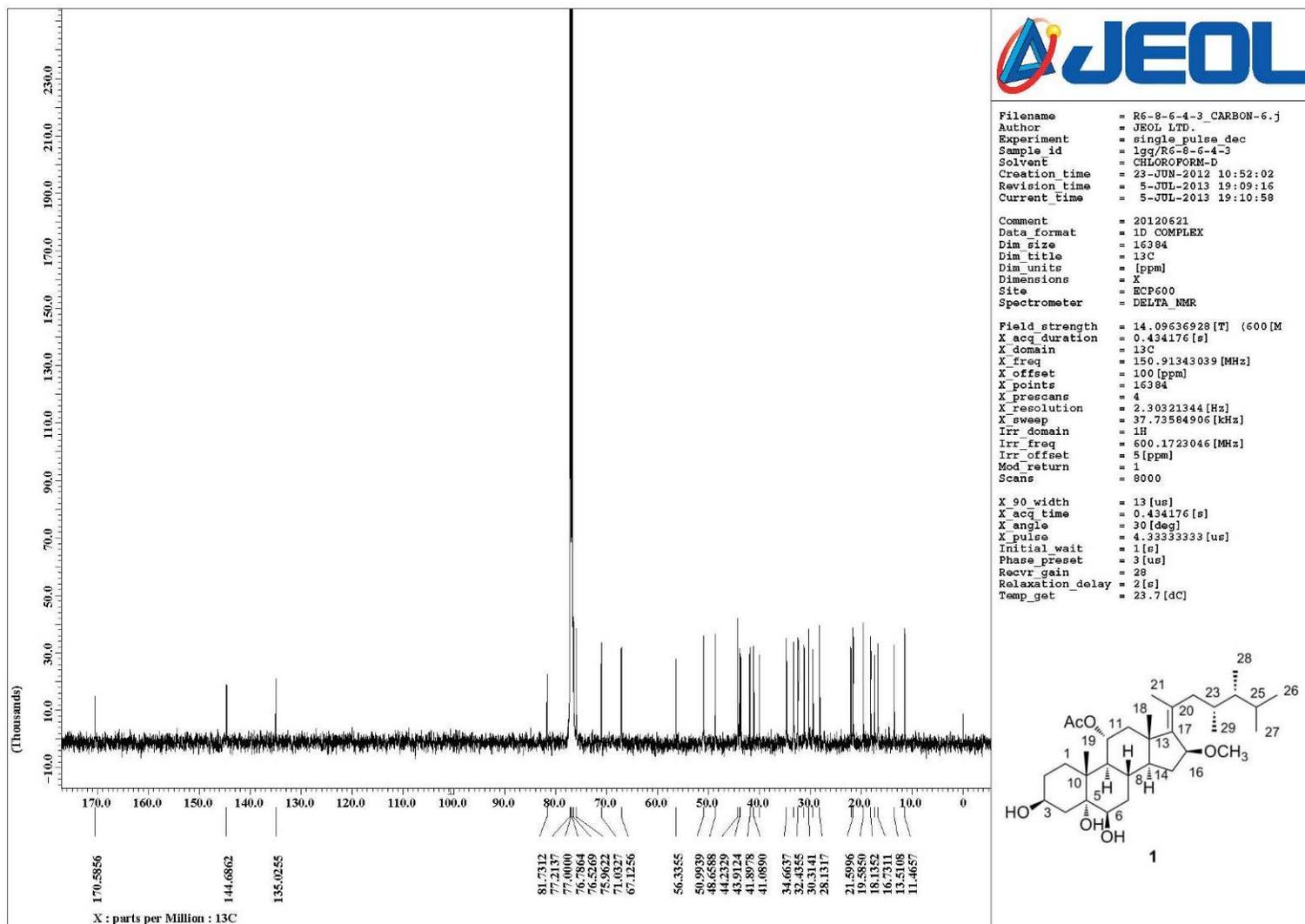
Figure S7. ^{13}C -NMR (150 MHz, CDCl_3) spectrum of compound (1).

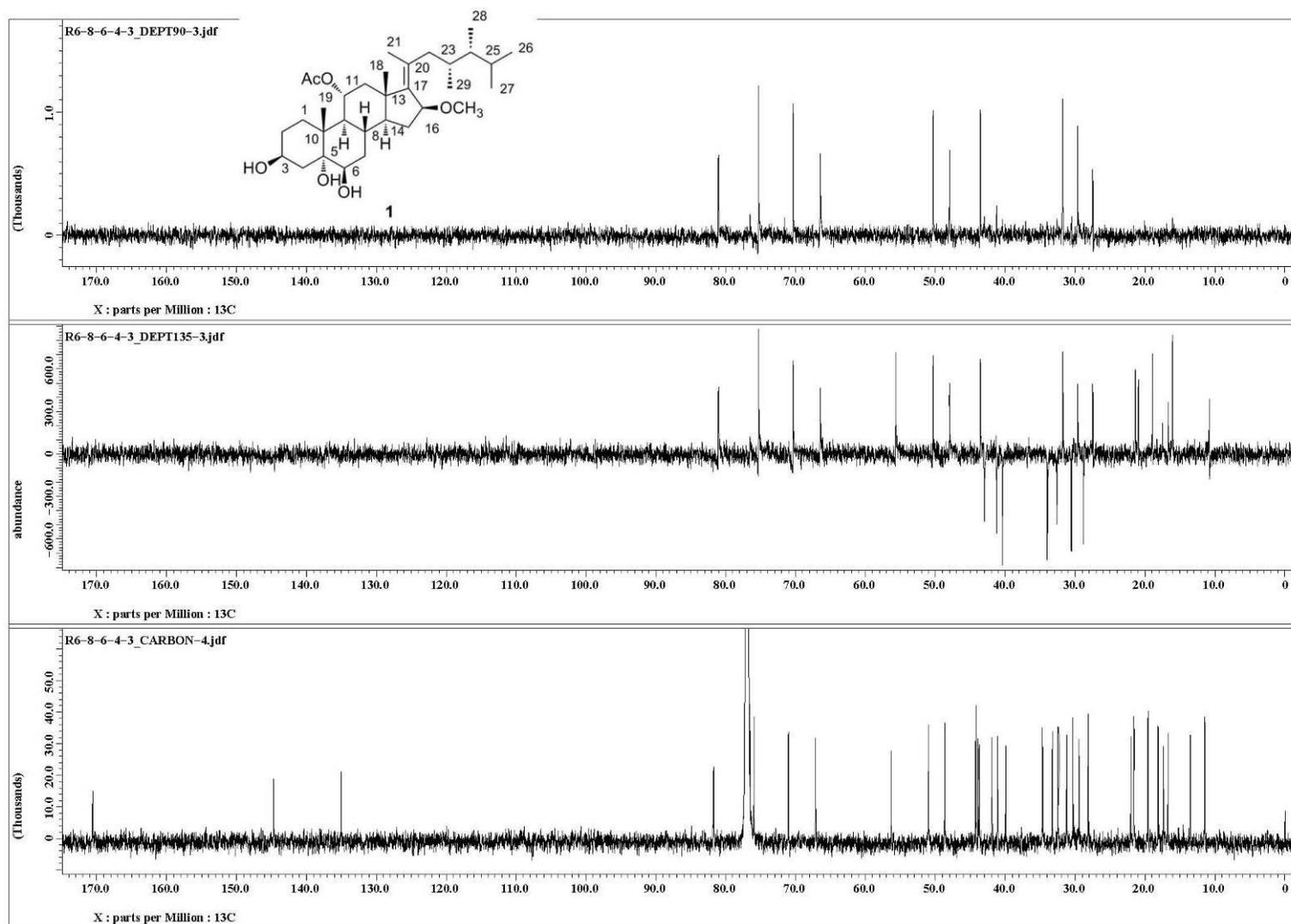
Figure S8. DEPT (150 MHz, CDCl₃) spectrum of compound (1).

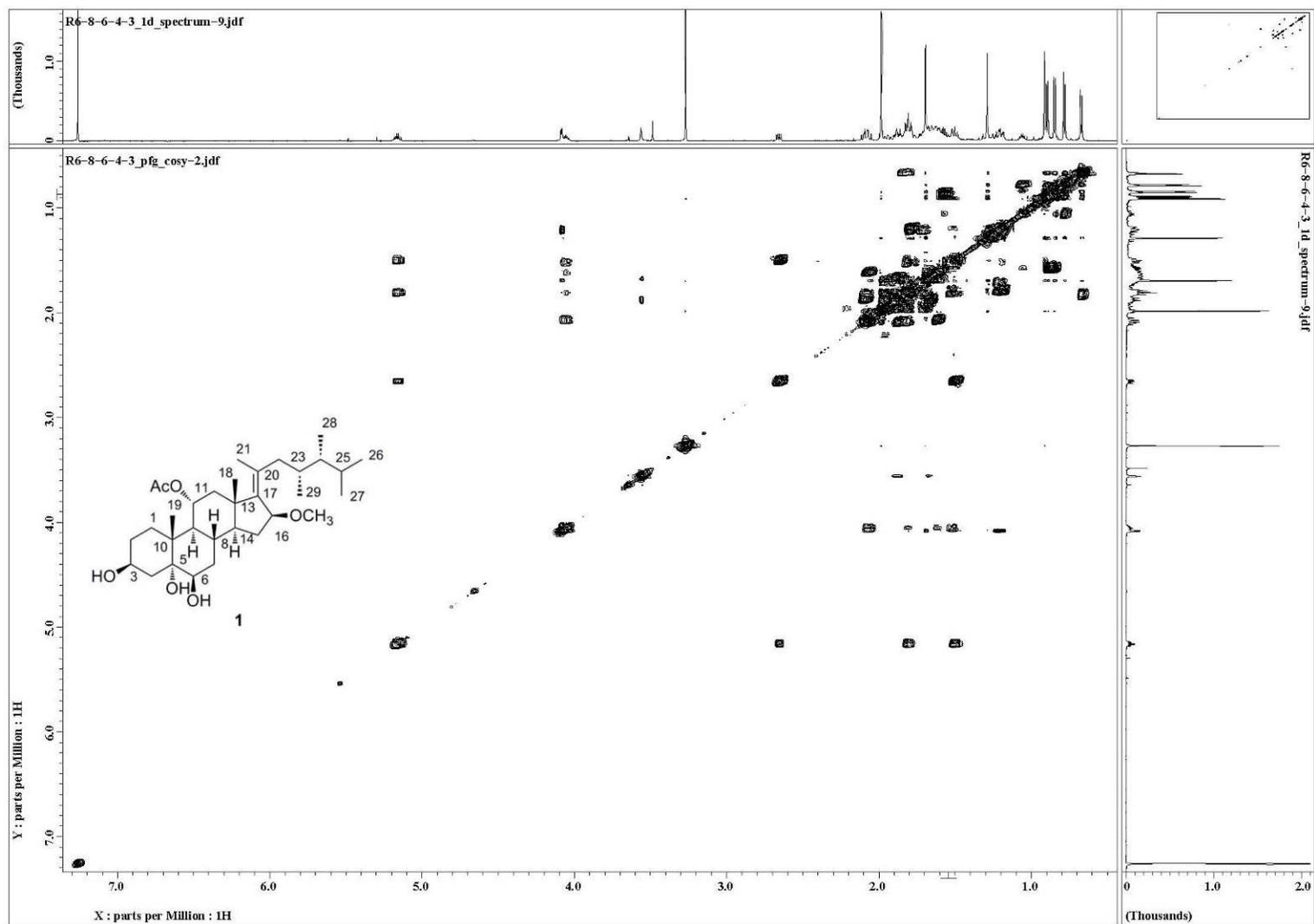
Figure S9. ^1H - ^1H COSY spectrum of compound (1).

Figure S10. HMQC spectrum of compound (1).

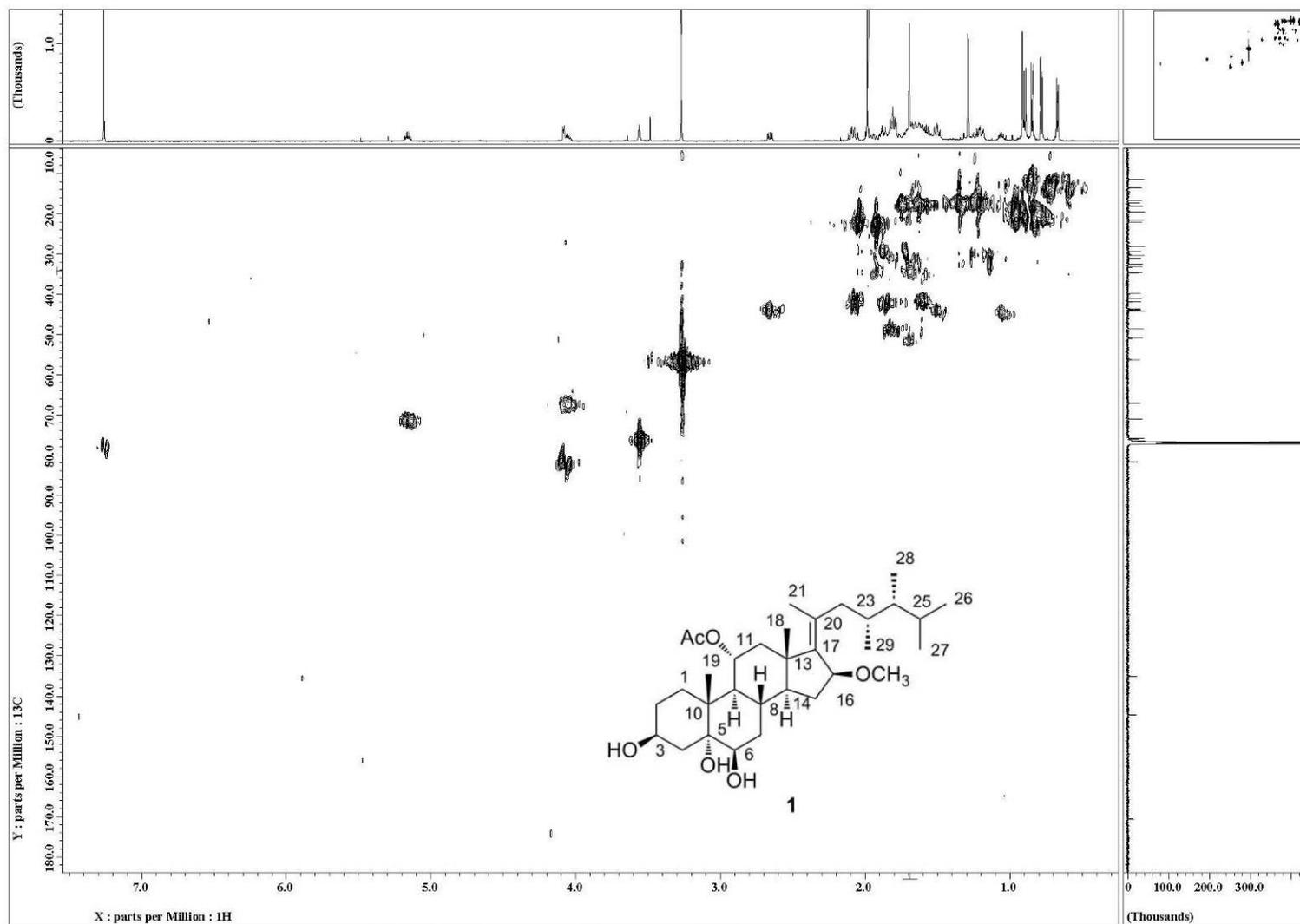


Figure S11. HMBC spectrum of compound (1).

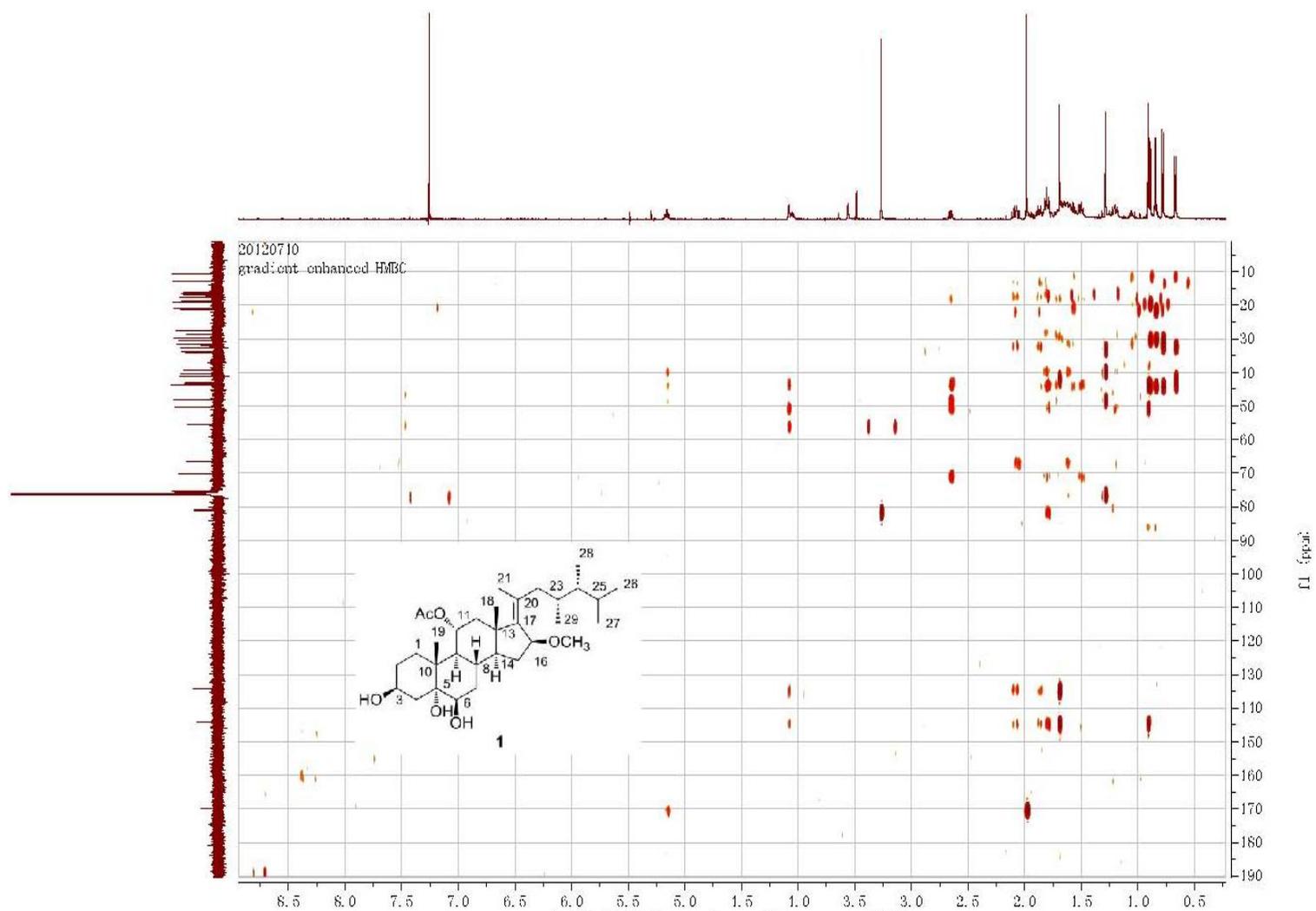


Figure S12. NOESY spectrum of compound (1).

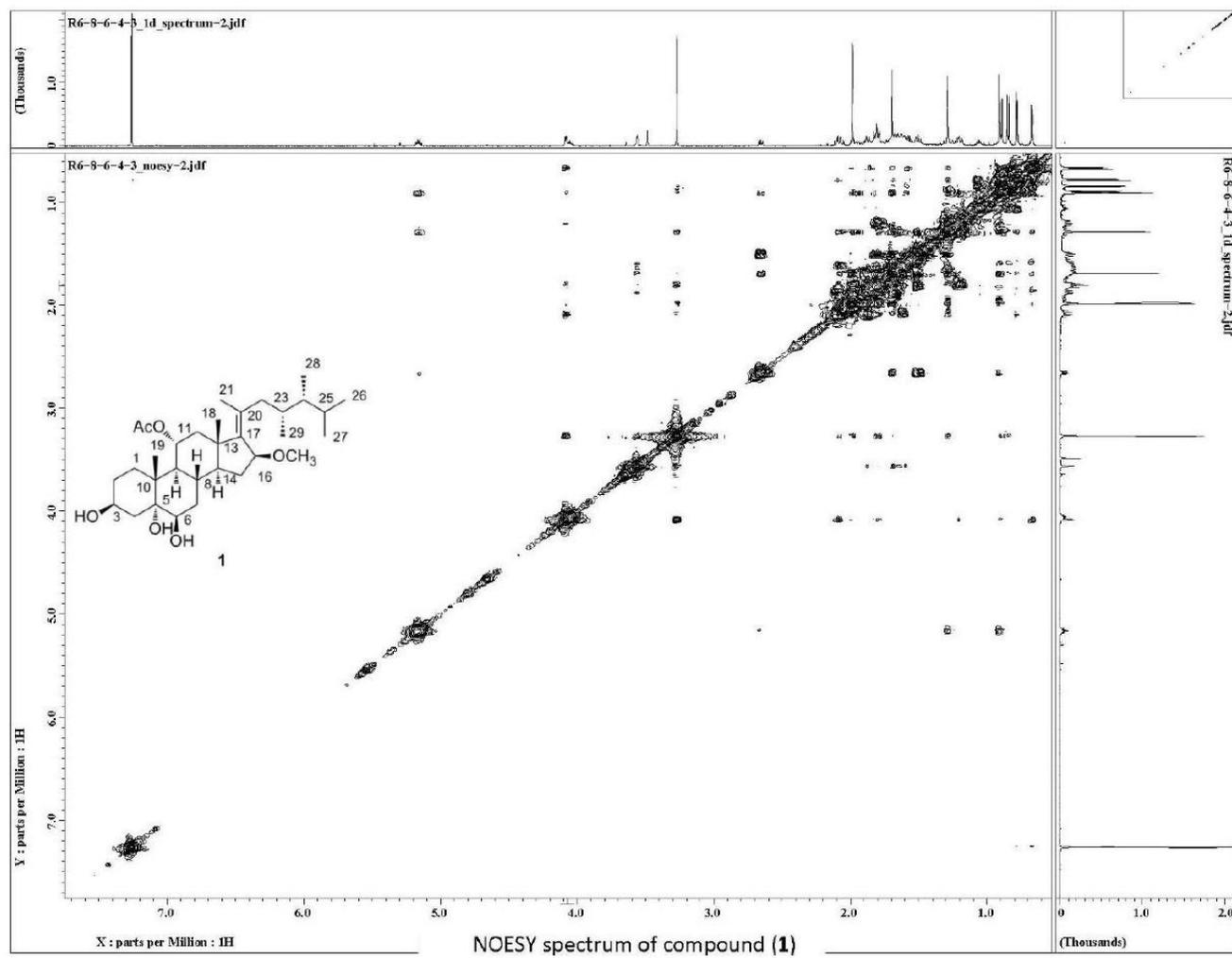


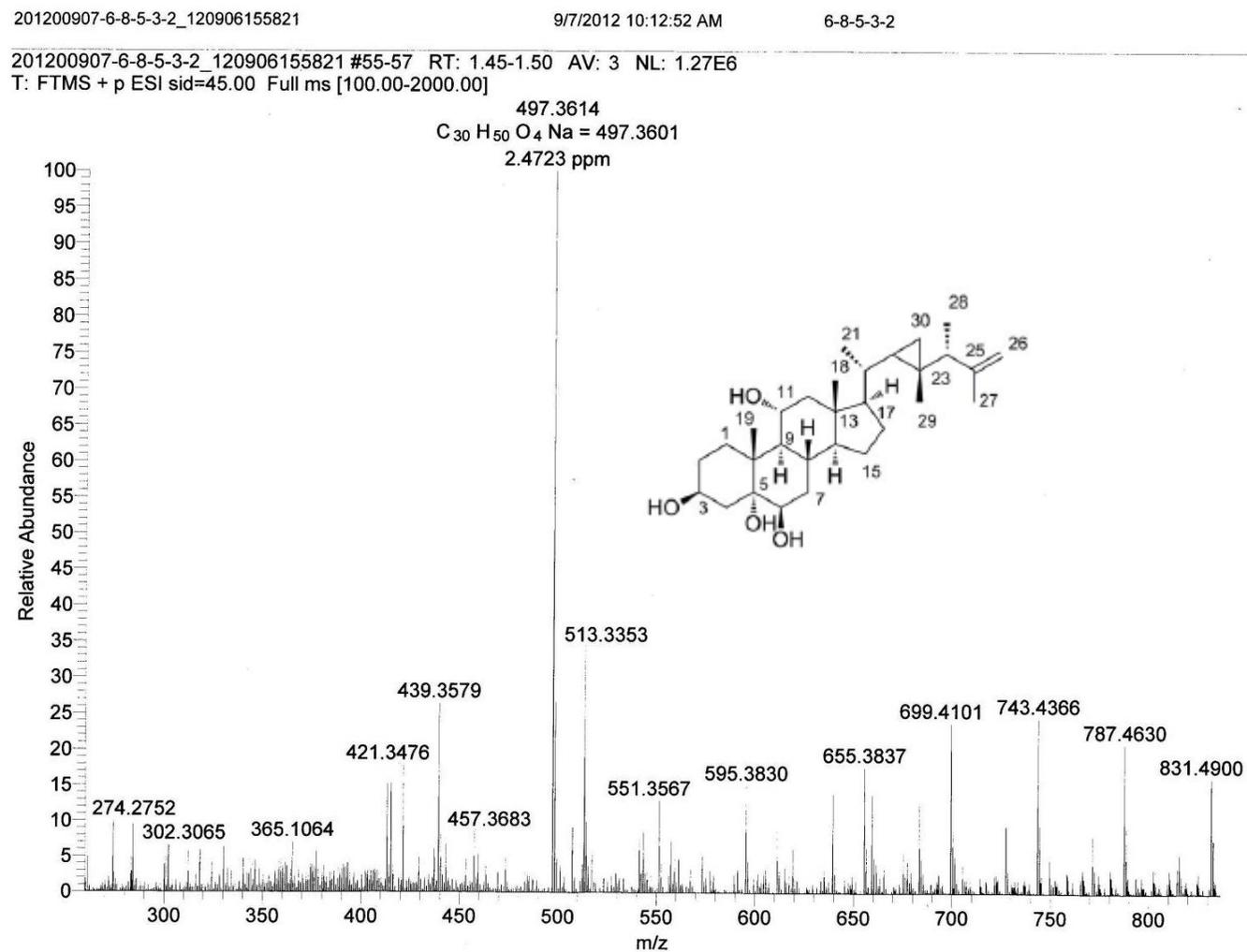
Figure S13. The positive HRESIMS spectrum of compound (2).

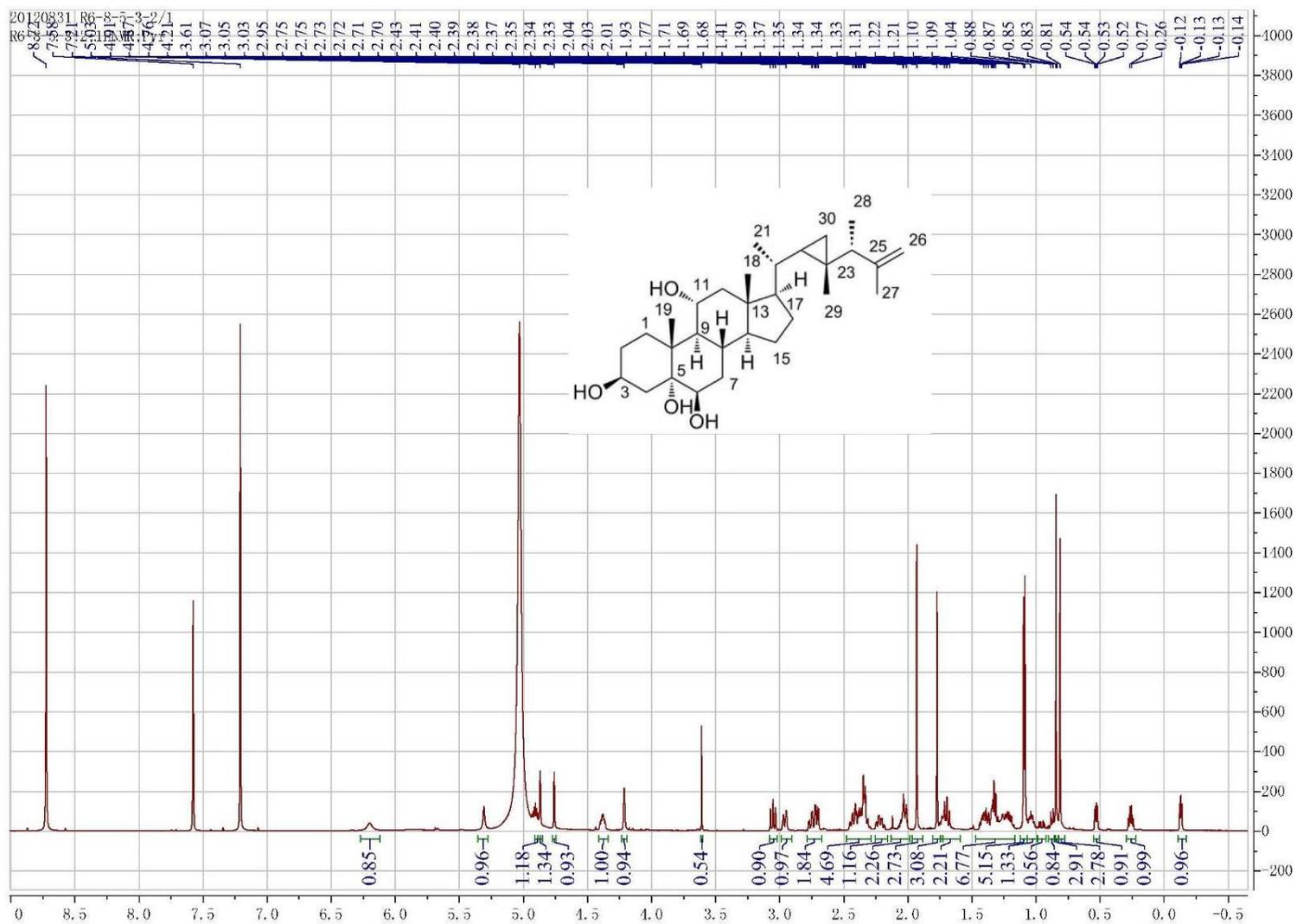
Figure S14. $^1\text{H-NMR}$ (600 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound (2).

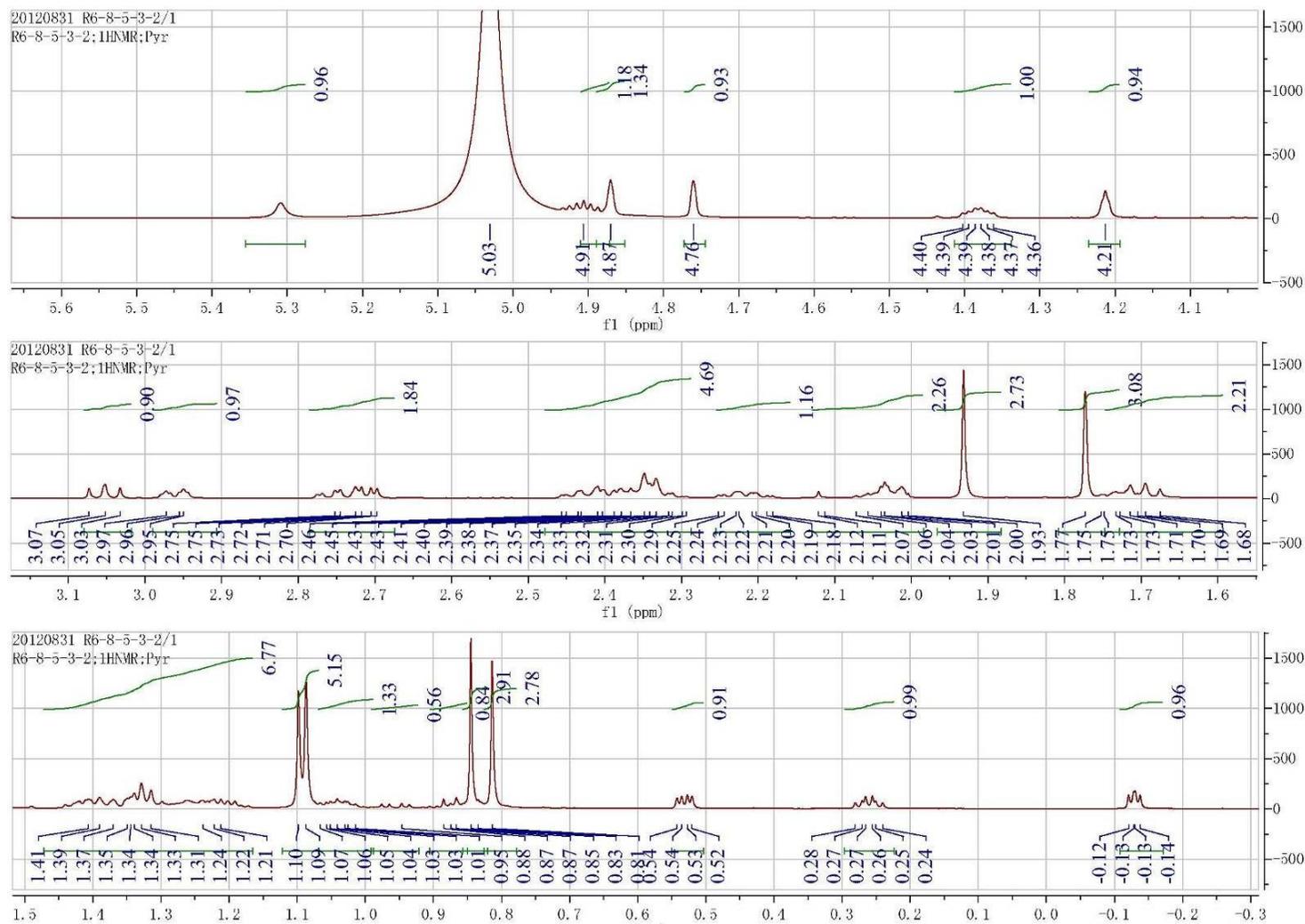
Figure S15. The amplificatory ^1H NMR (600 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound (2).

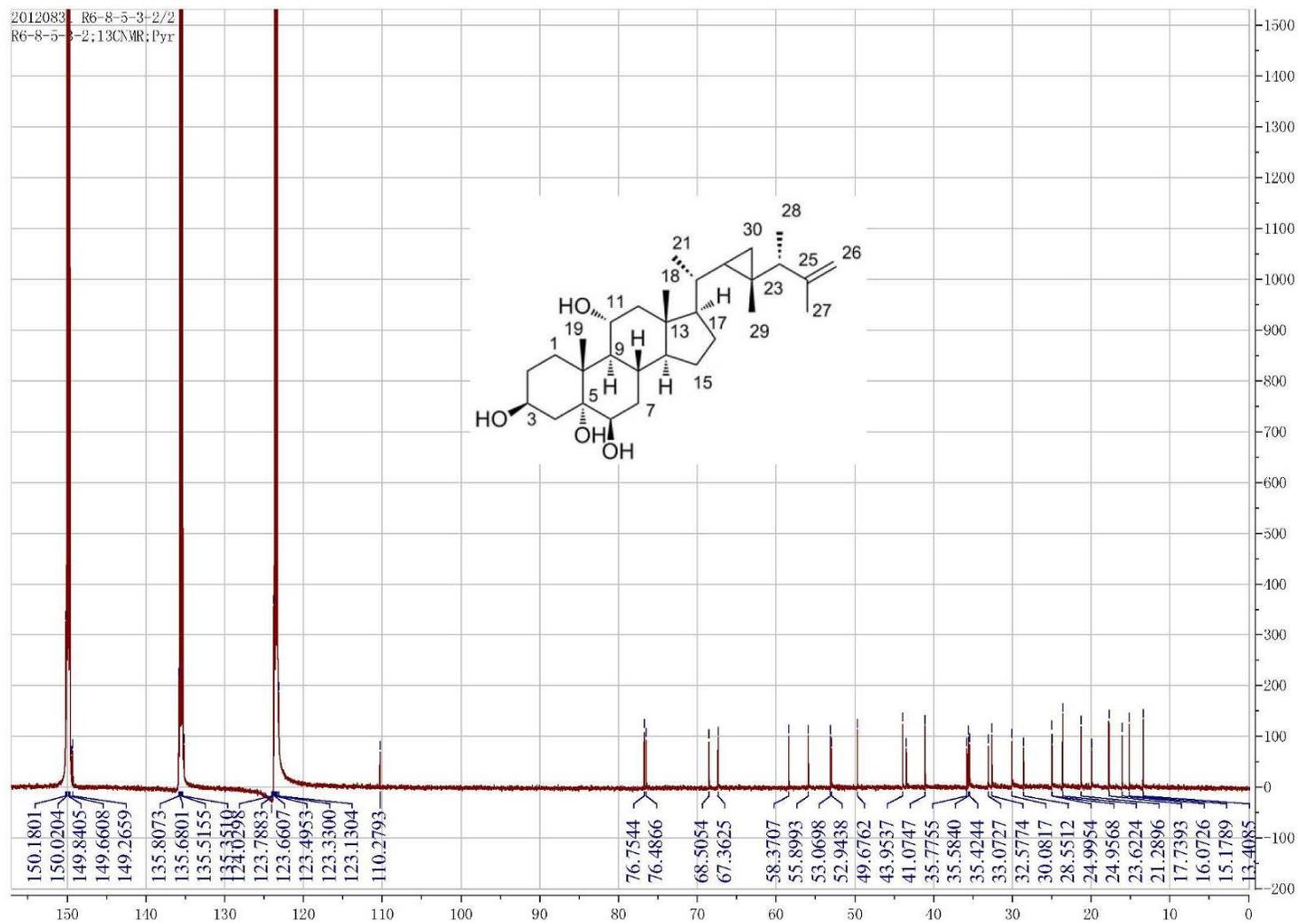
Figure S16. ^{13}C -NMR (150 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of compound (2).

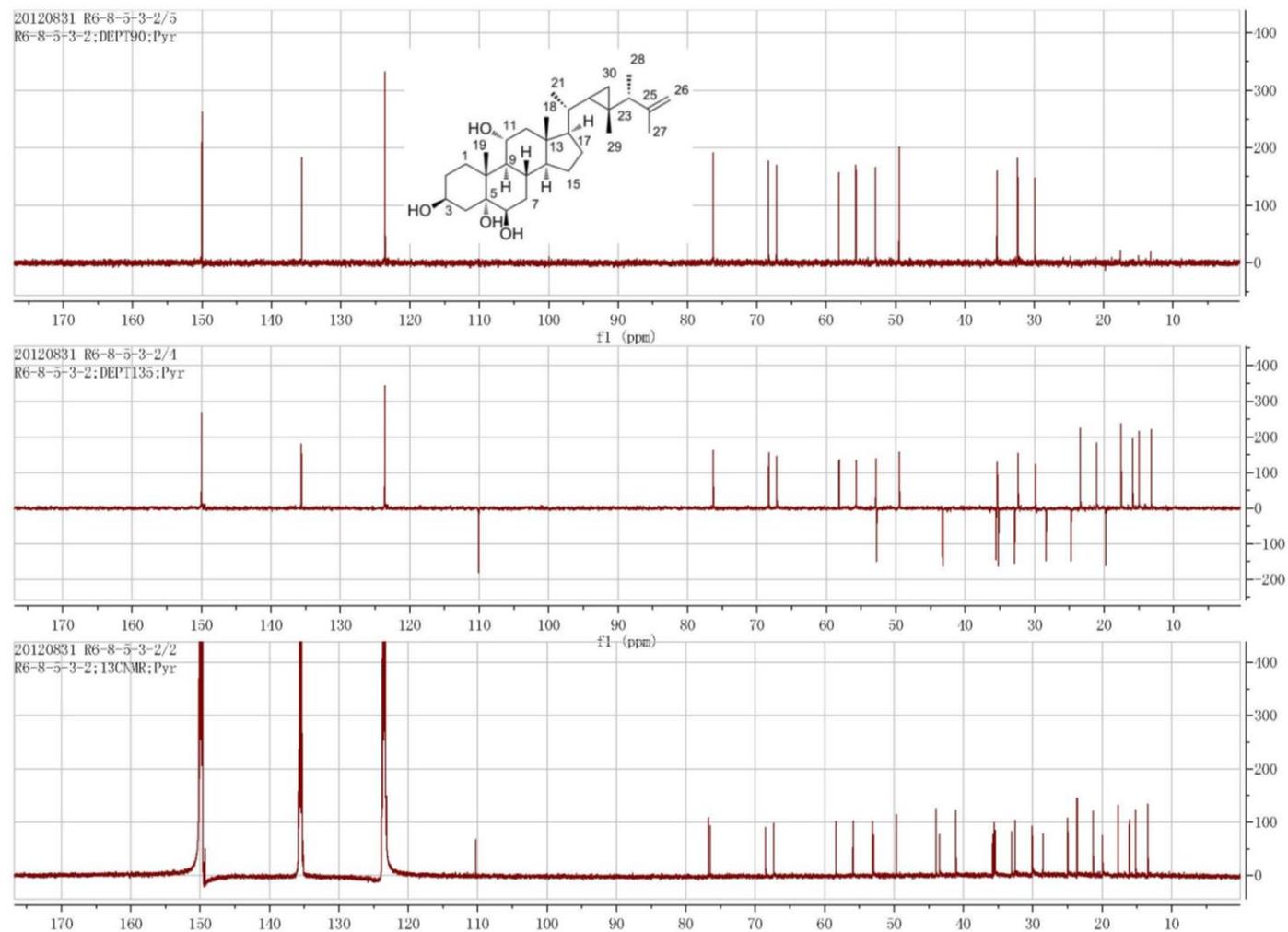
Figure S17. DEPT (150 MHz, C₅D₅N) spectrum of compound (2).

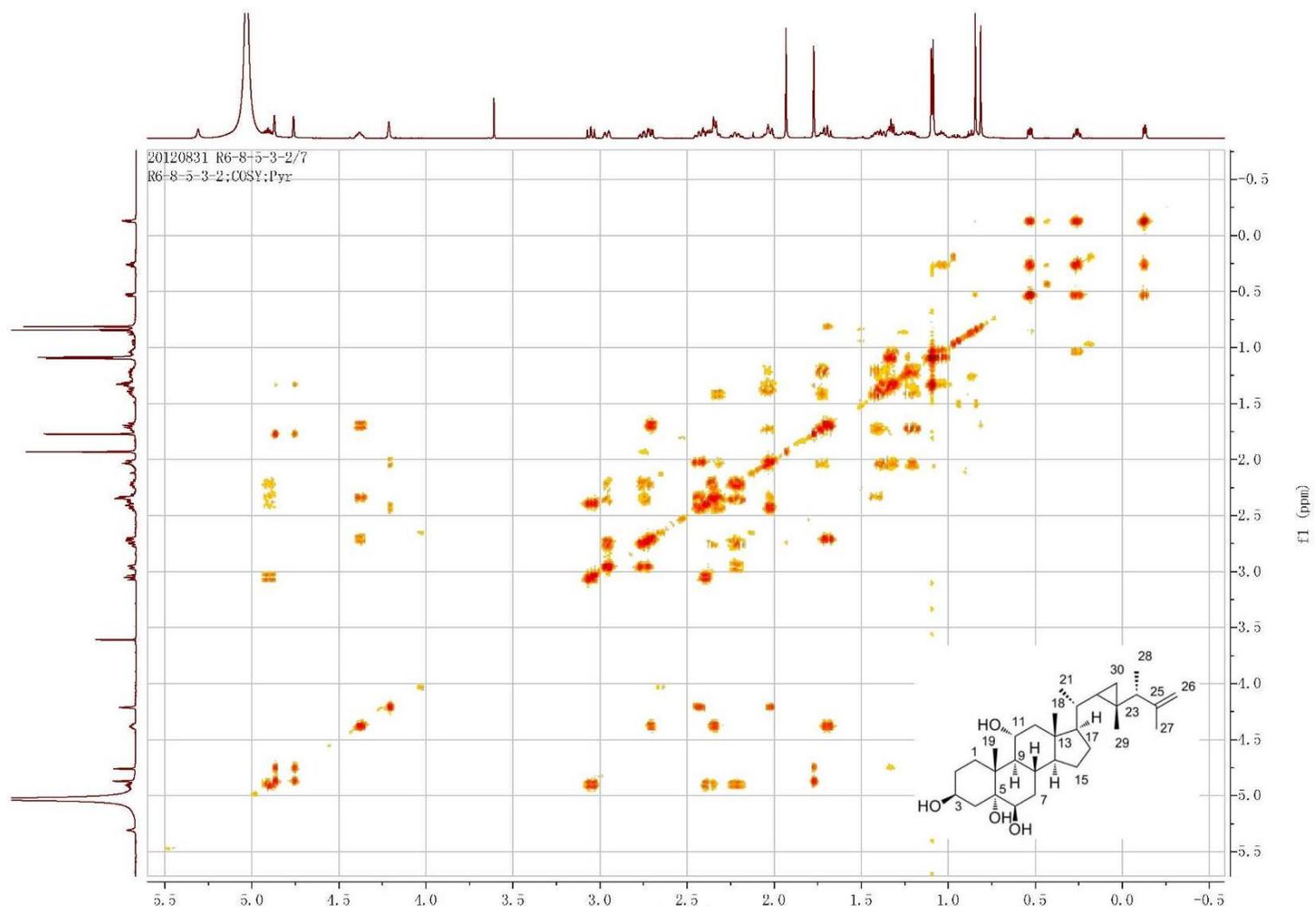
Figure S18. ^1H - ^1H COSY spectrum of compound (2).

Figure S19. HMQC spectrum of compound (2).

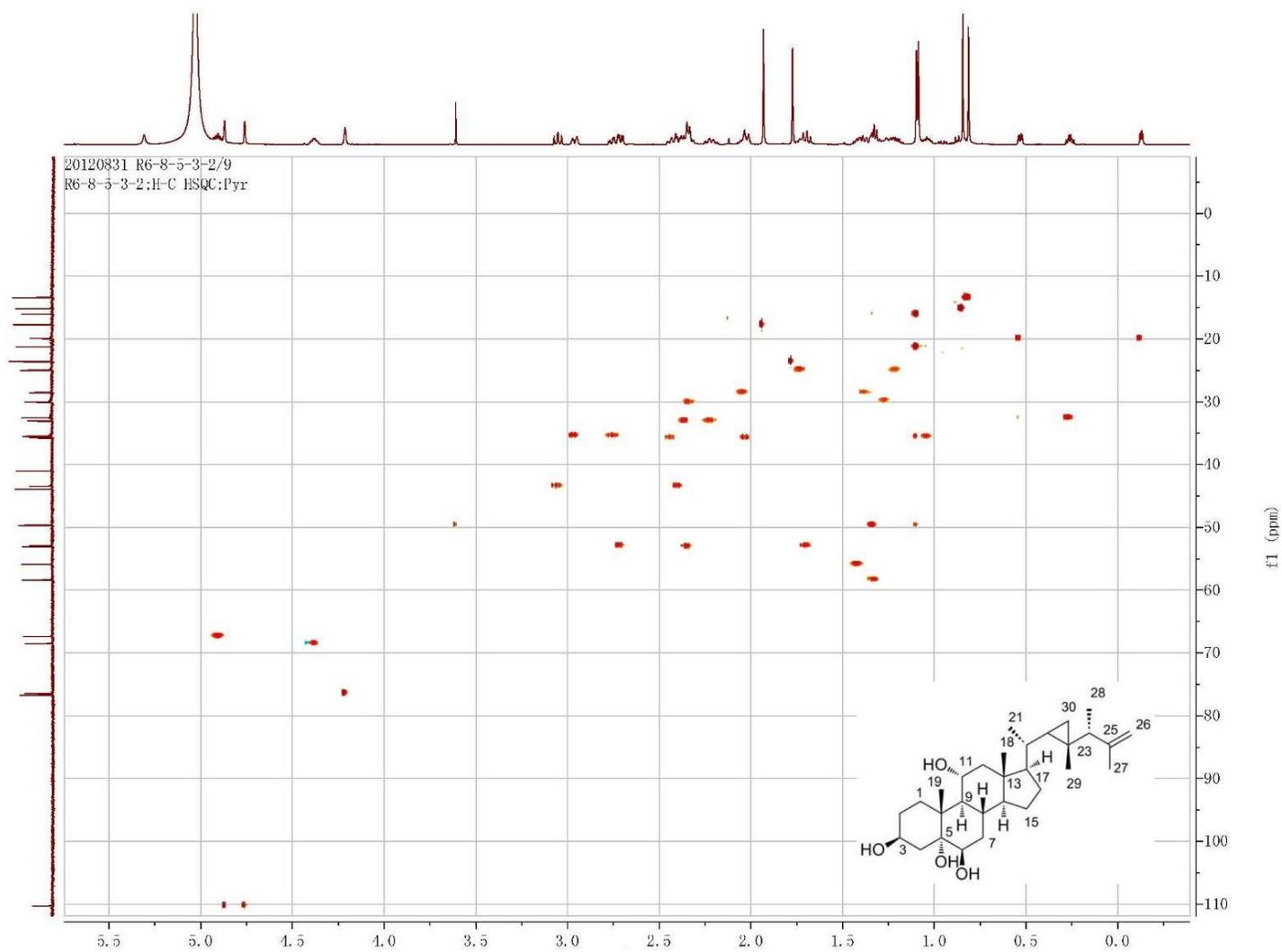


Figure S20. HMBC spectrum of compound (2).

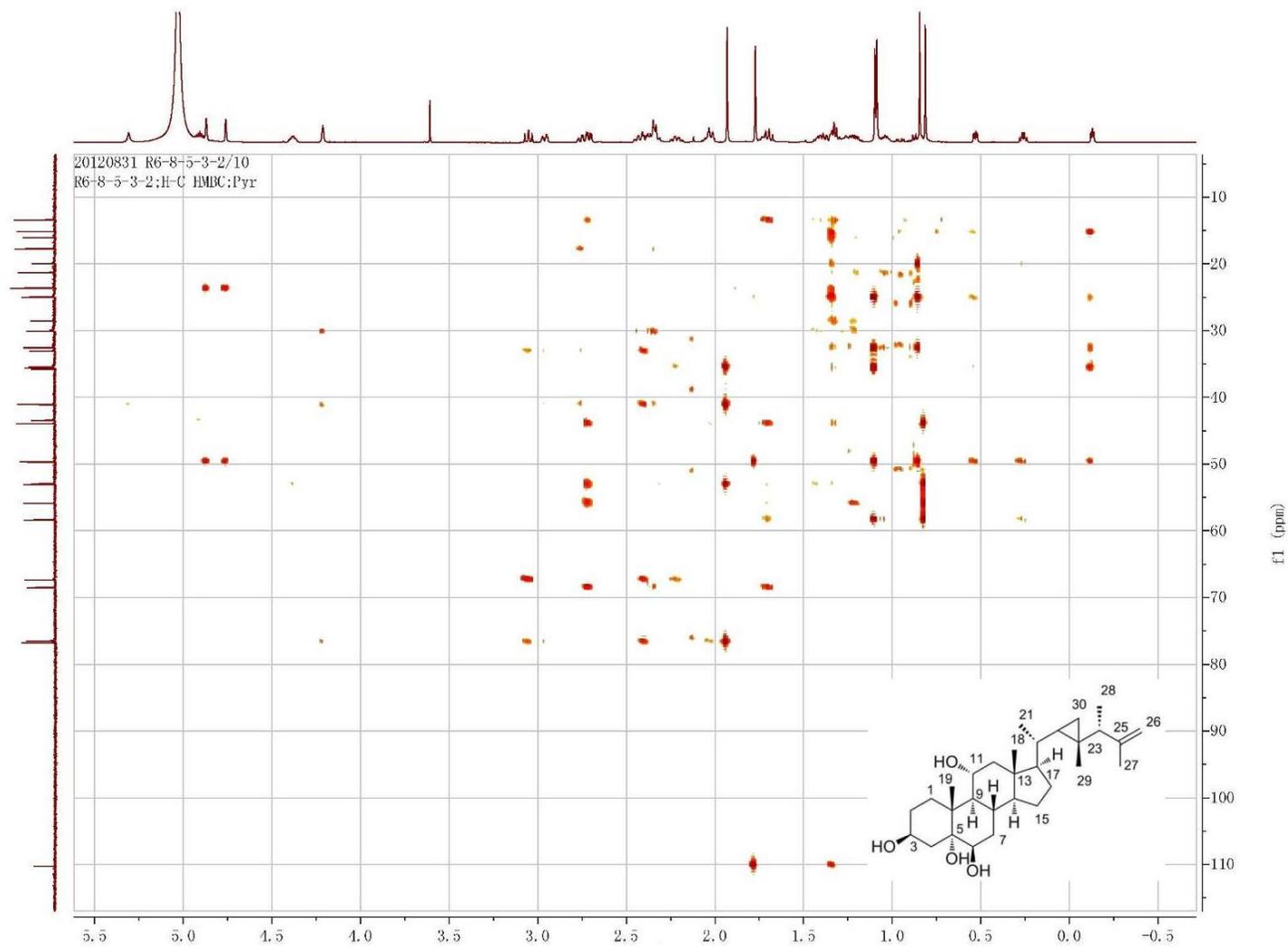


Figure S21 NOESY spectrum of compound (2).

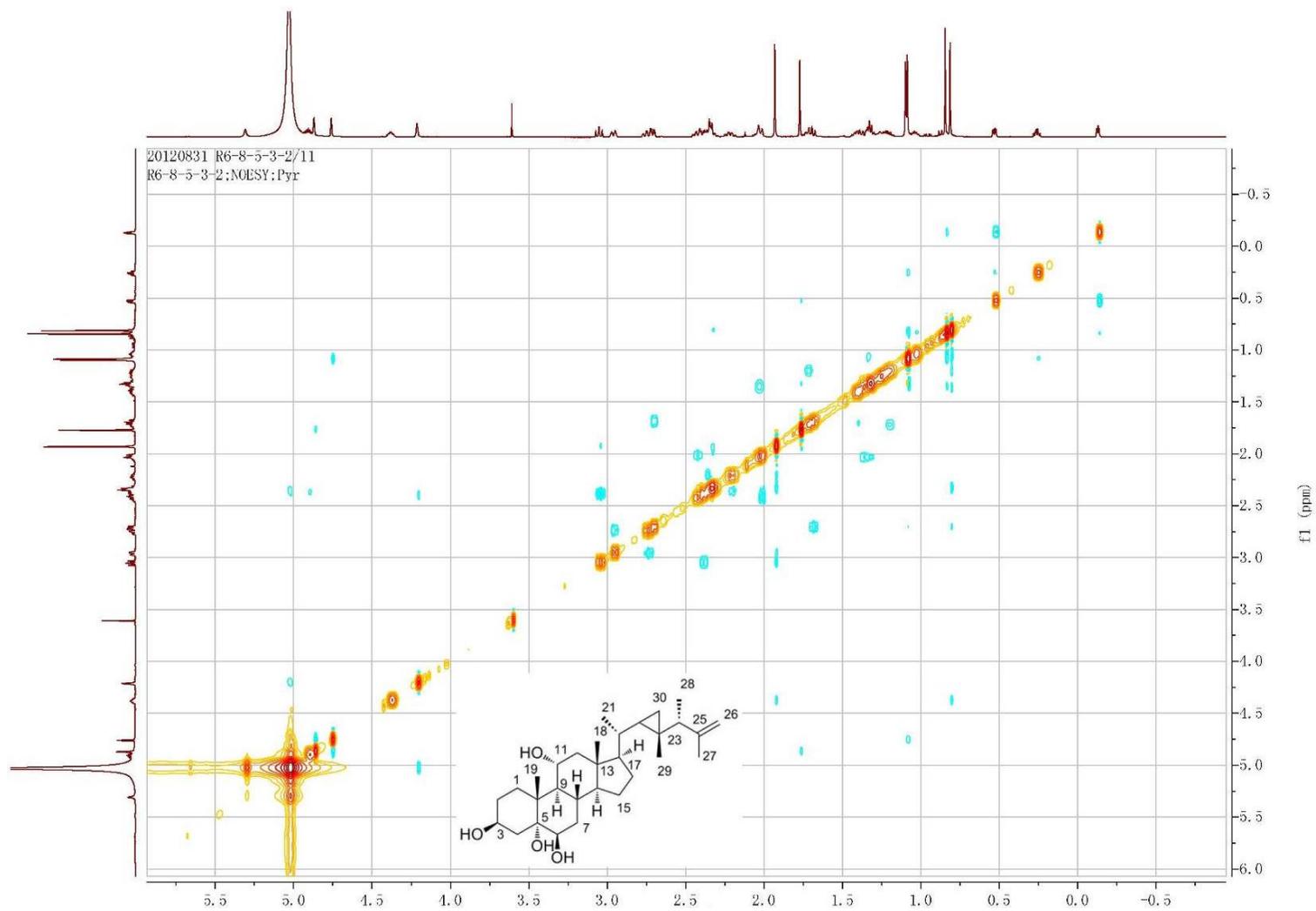


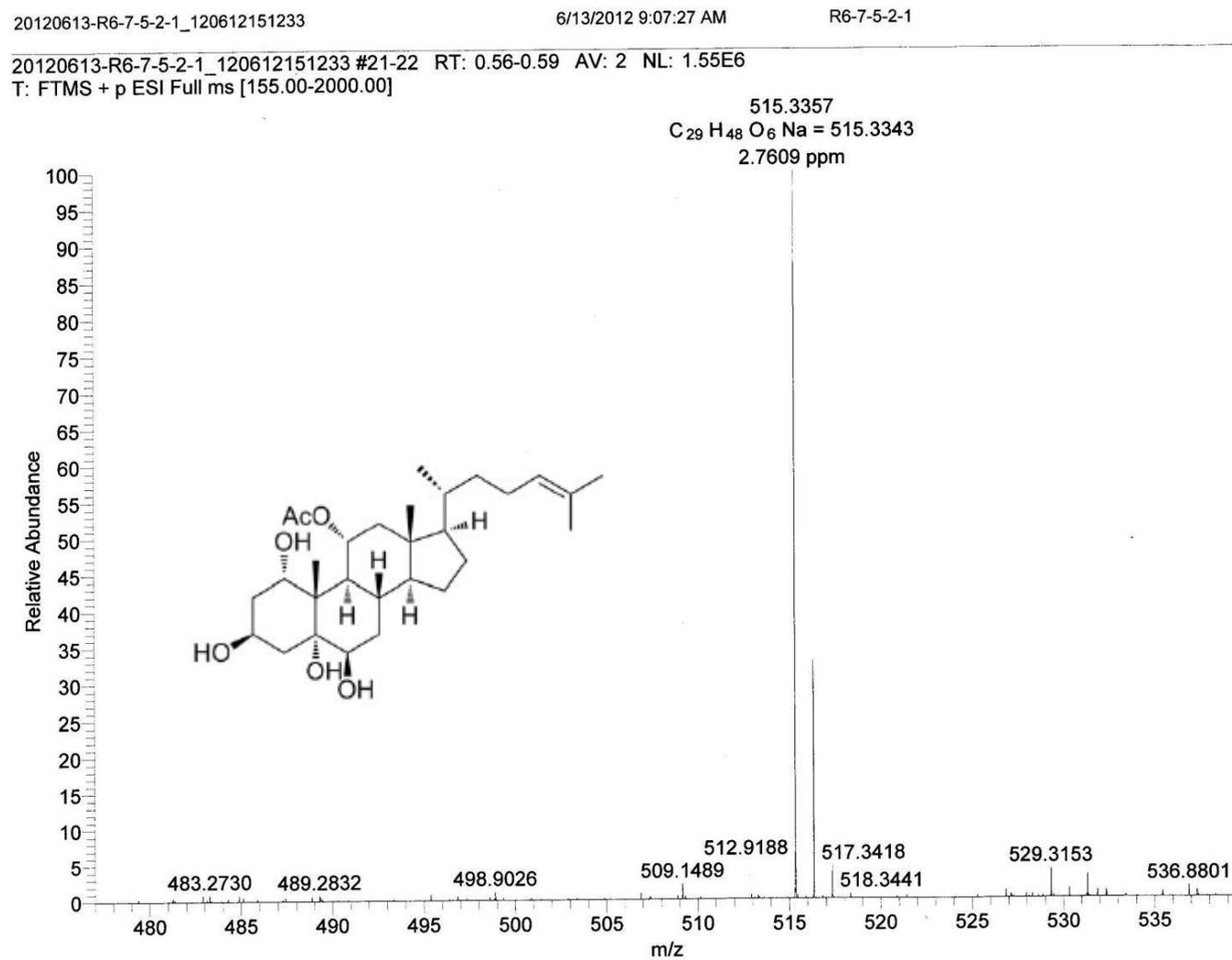
Figure S22. The positive HRESIMS spectrum of compound (3).

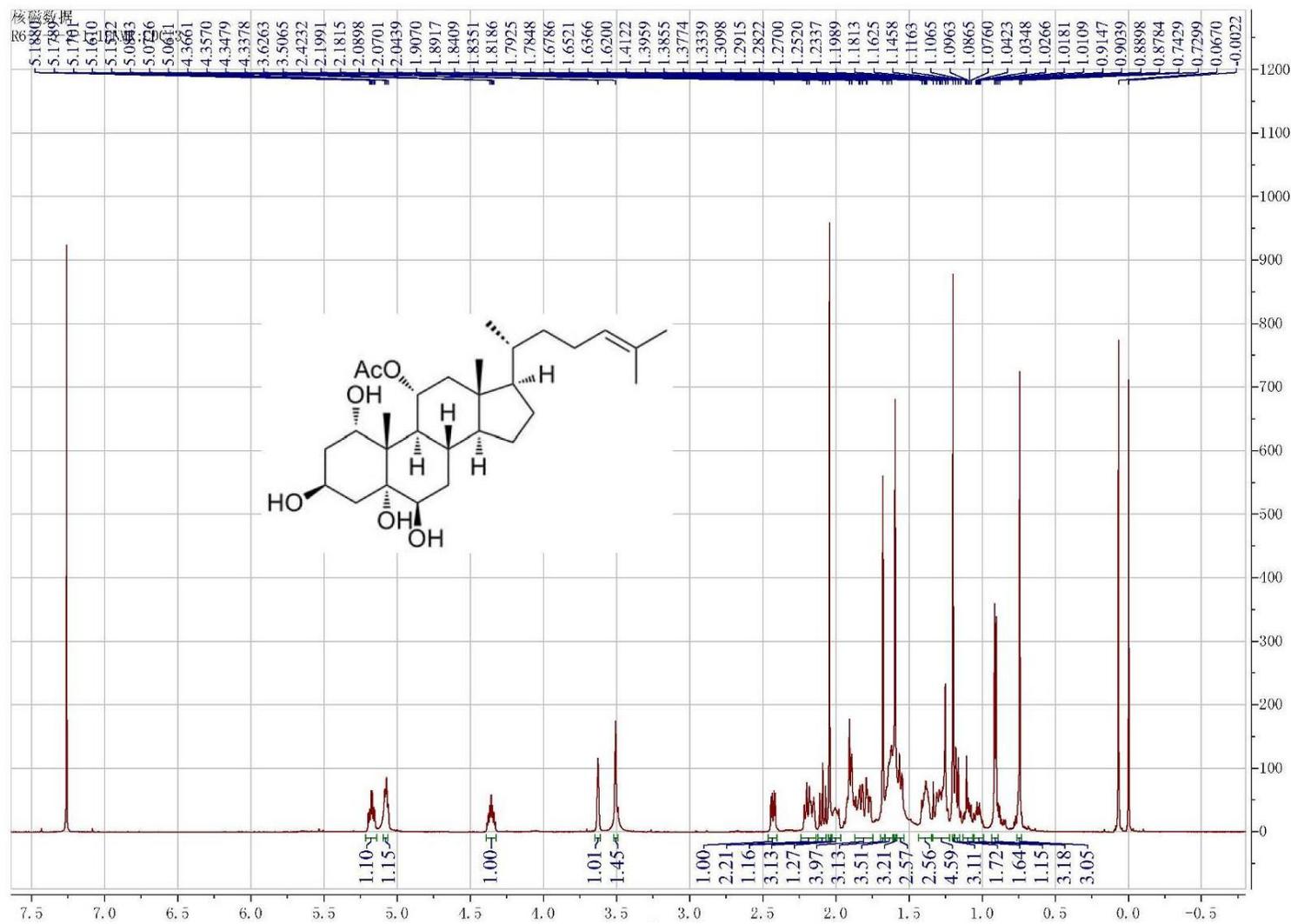
Figure S23. $^1\text{H-NMR}$ (600 MHz, CDCl_3) spectrum of compound (3).

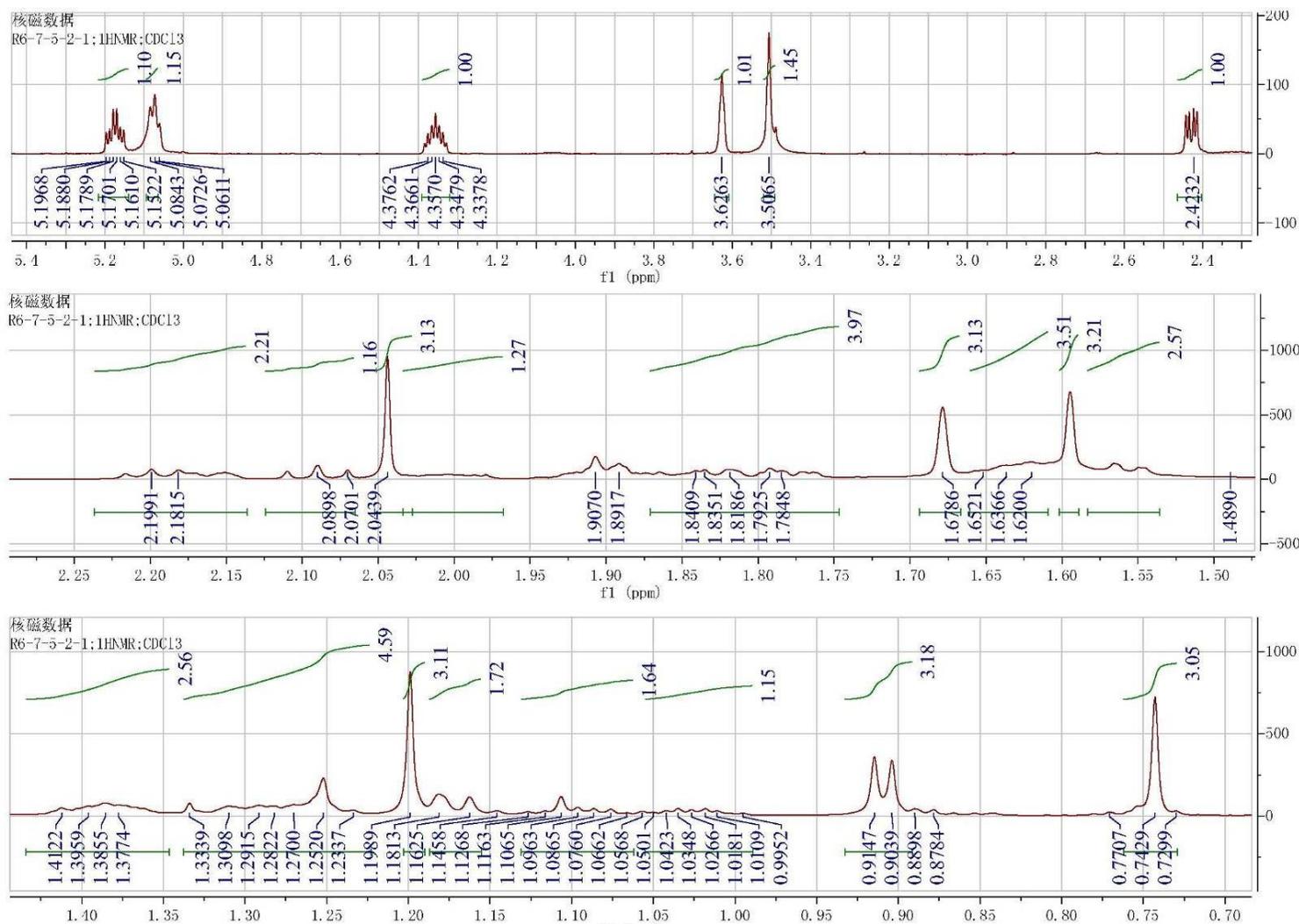
Figure S24. The amplificatory ^1H NMR (600 MHz, CDCl_3) spectrum of compound (3).

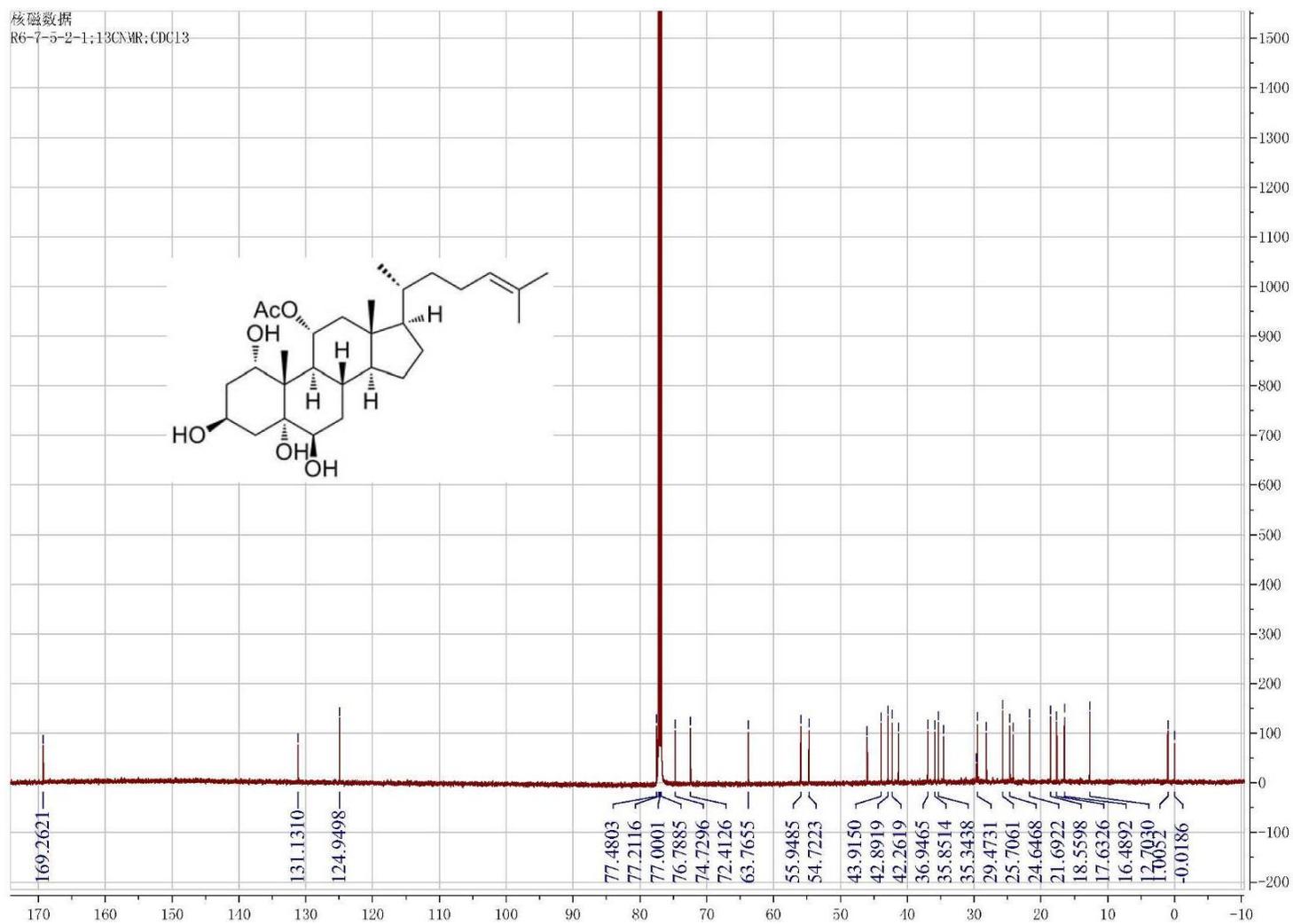
Figure S25. ^{13}C -NMR (150 MHz, CDCl_3) spectrum of compound (3).

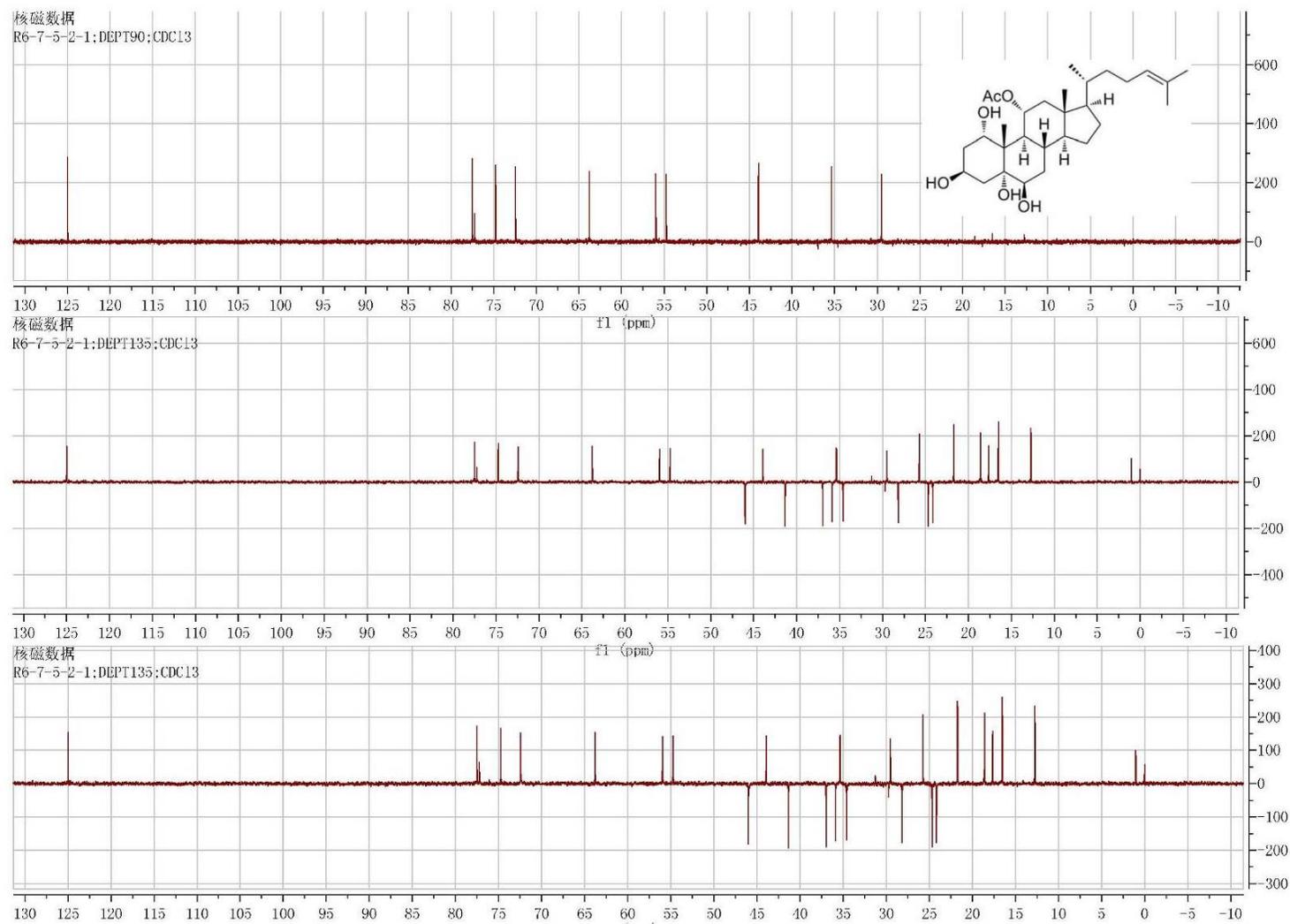
Figure S26. DEPT (150 MHz, CDCl₃) spectrum of compound (3).

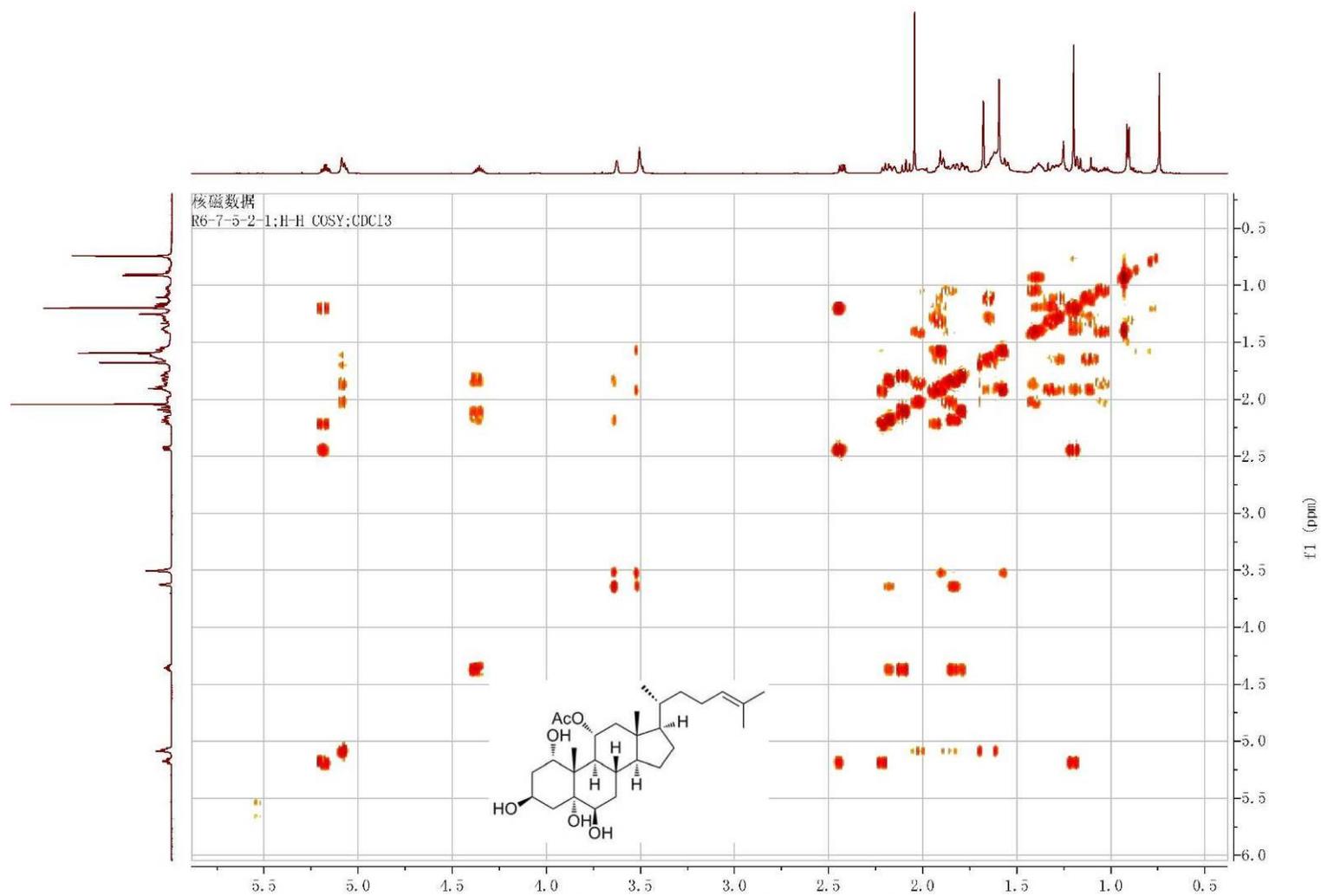
Figure S27. ^1H - ^1H COSY spectrum of compound (3).

Figure S28. HMQC spectrum of compound (3).

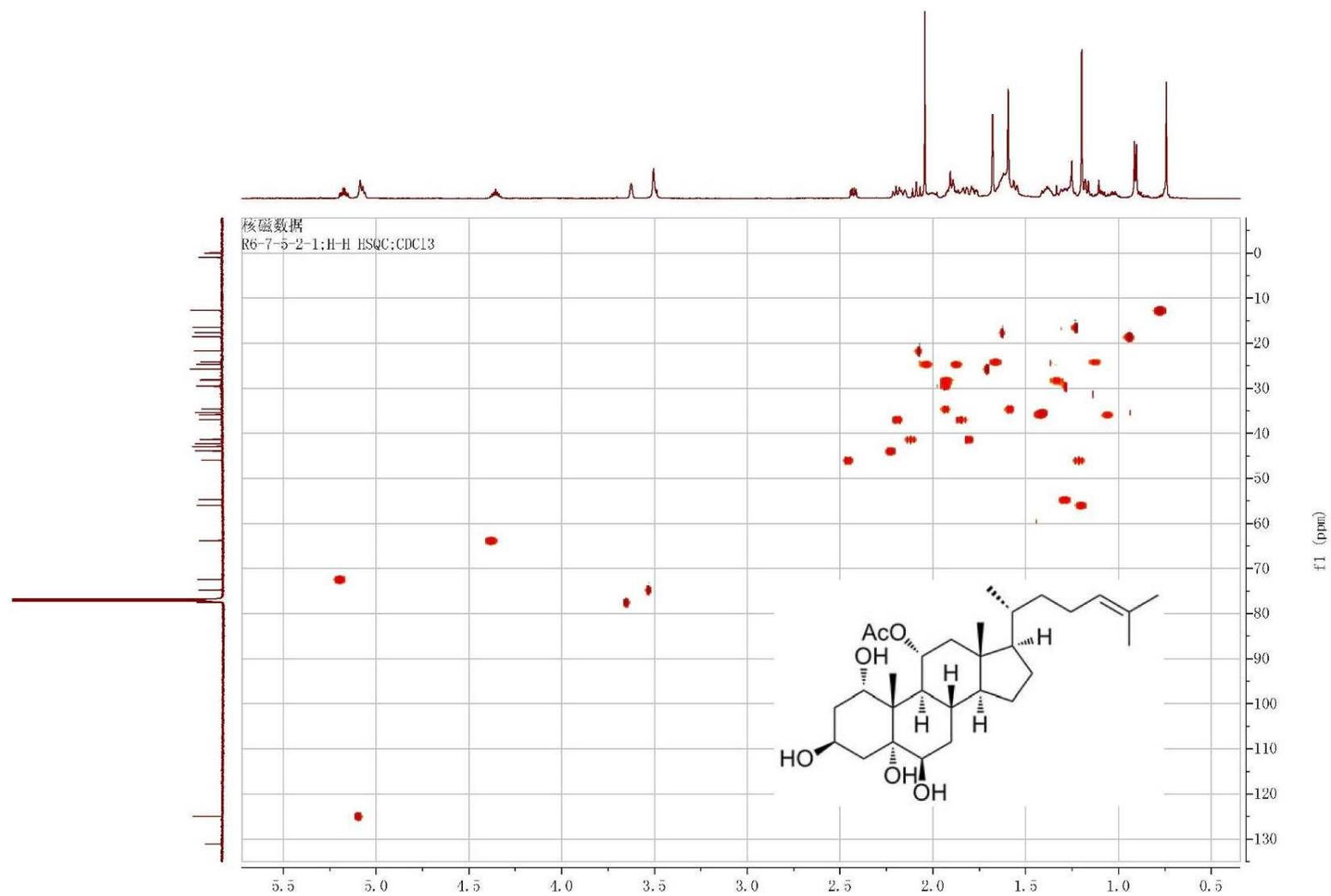


Figure S29. HMBC spectrum of compound (3).

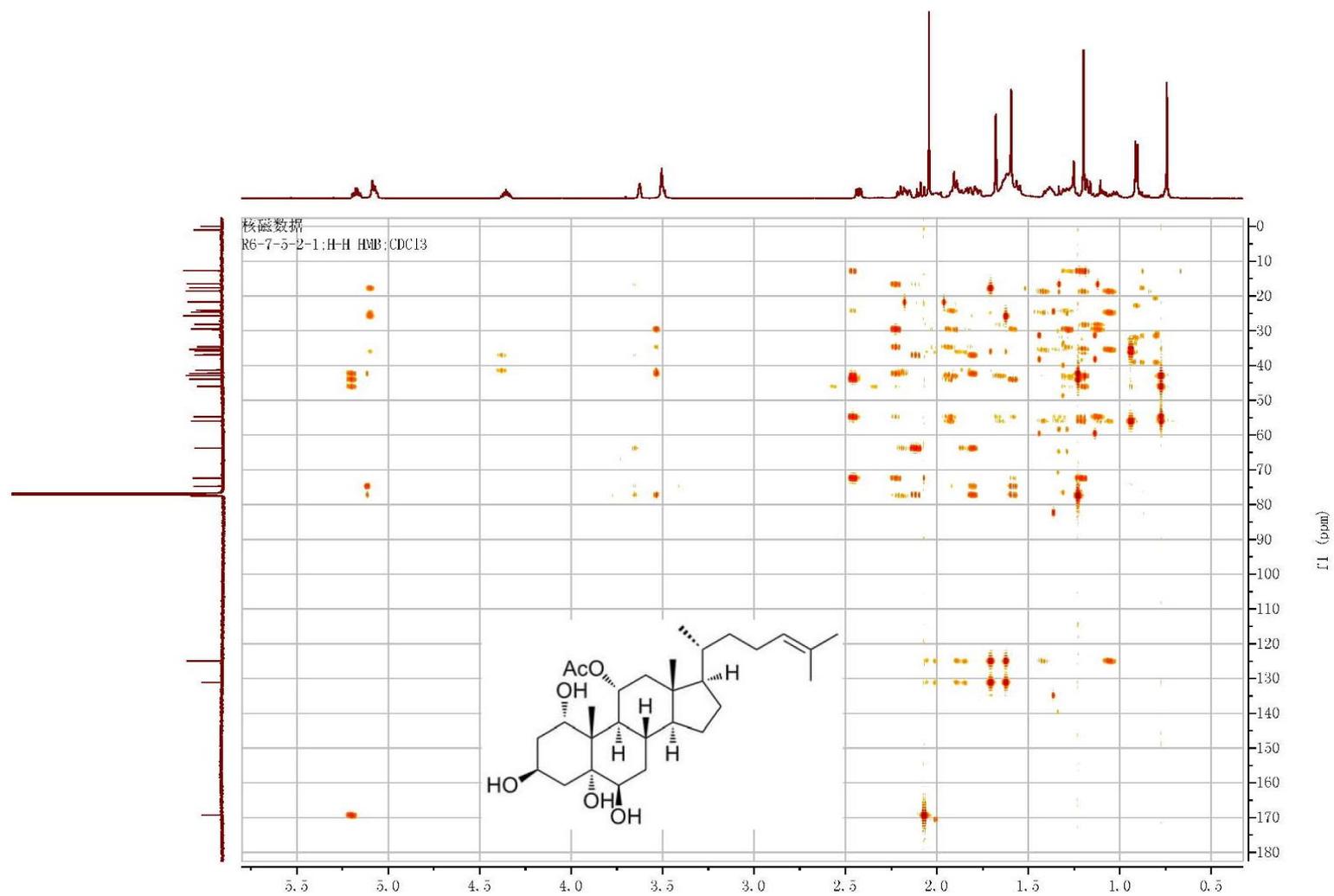


Figure S30. NOESY spectrum of compound (3).

