Supporting Information for

Bipodonines A-J, a new class of natural sesquiterpenes with 2-(tetrahydro-2*H*-pyran-2-yl)propan-2-ol system from the fungus *Bipolaris cynodontis* DJWT-01

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Table 1 ^{1}H NMR data of compounds 1-5.

No.	1[a]	2[c]	3[b]	4[a]	5[a]
1	4.52 d (12.6)	4.12 dd (11.6, 7.9)	2.14 overlap	1.82 overlap	1.76 dd (6.9, 1.2)
			2.03 overlap	1.20 overlap	1.10 overlap
2	1.86 d (11.8)	1.74 overlap	6.74 s	4.32 br s	4.14 m
4	1.46 m	1.76 m		2.49 dt (12.5, 3.9)	2.43 m
	1.92 m	1.87 m			
5	1.60 m	1.55 m	1.98 m	1.86 m	1.50 m
	1.89 m	1.71 m	2.63 dd (16.9, 6.8)	1.93 m	1.96 dt (12.7, 4.1)
6	3.17 dd (12.0, 4.0)	3.18 dd (12.0, 3.8)	3.32 dd (10.7, 5.9)	3.13 dd (11.5, 3.9)	3.20 overlap
8	1.78 m	1.41 m	1.35 m	1.22 m	1.31 m
	2.03 m	2.67 m	1.72 m	1.58 m	1.60 m
9	145 m	1.47 m	1.49 m	1.40 m	1.47 m
	1.70 m	1.68 m	1.62 m	1.67 m	1.60 m
10	3.29 dd (12.0, 3.2)	3.25 dd (11.8, 2.7)	3.20 dd (8.0, 1.6)	3.21 dd (11.9, 2.9)	3.23 overlap
12	1.18 s 3H	1.17 s 3H	1.18 s 3H	1.18 s 3H	1.16 s 3H
13	1.17 s 3H	1.16 s 3H	1.17 s 3H	1.18 s 3H	1.14 s 3H
14	1.02 s 3H	1.06 s 3H	0.85 s 3H	1.15 s 3H	0.91 s 3H
15	1.43 s 3H	1.45 s 3H	2.30 s 3H	2.21 s 3H	2.19 s 3H
16		3.94 d (7.9)			

[a] Recorded at 400 MHz, (δ, $CDCl_3$, J in Hz); [b] Recorded at 600 MHz, (δ, $CDCl_3$, J in Hz); [c] Recorded at 600 MHz, (δ, CD_3OD, J in Hz).

Table 2 ^{1}H NMR data of compounds 6-10.

No.	6[a]	7[b]	8[b]	9[b]	10[b]
1		10.01 d		2.30 overlap 2H	0.84 s 3H
2		2.07 s			
4	2.21 m	1.41 m	2.50 m	2.56 m 2H	2.47 m
	2.25 m	1.75 dt (14.3, 3.1)	2.63 m		2.59 m
5	1.73 t (6.3) 2H	1.45 m	1.69 m 2H	1.59 m	1.55 m
		1.66 m		1.85 m	1.81 m
6	3.29 dd (10.6, 2.7)	3.16 dd (11.9, 3.5)	3.65 dd (9.0, 3.6)	3.23 d (10.5)	2.98 dd (10.9, 1.9)
8	1.46 m	1.57 dd (12.6, 3.9)	1.86 dt (13.1, 3.2)	1.72 m 2H	1.35 m
	1.95 d (11.6)	1.91 m	1.98 m		1.50 m
9	1.49 m	1.50 m	1.52 m 2H	1.47 m	1.40 m
	1.62 m	1.84 m		1.57 m	1.51 m
10	3.22 dd (11.6, 2.5)	3.25 dd (11.7, 2.8)	3.18 dd (11.0, 3.4)	3.09 dd (11.5, 2.2)	3.06 dd (11.0, 2.2)
12	1.19 s 3H	1.18 s 3H	1.16 s 3H	1.18 s 3H	1.17 s 3H
13	1.18 s 3H	1.17 s 3H	1.20 s 3H	1.14 s 3H	1.13 s 3H
14	1.20 s 3H	1.23 s 3H	1.19 s 3H	1.03 s 3H	0.87 s 3H
15	1.79 s 3H	1.21 s 3H	2.15 s 3H	2.15 s 3H	2.15 s 3H

[a] Recorded at 400 MHz, (δ, $CDCl_3$, J in Hz); [b] Recorded at 600 MHz, (δ, $CDCl_3$, J in Hz).

Table 3 ^{13}C NMR data of compounds 1-10.

No.	1[a]	2[c]	3[b]	4[a]	5[a]	6[a]	7[b]	8[a]	9[a]	10[b]
1	68.7	72.8	40.6	43.5	44.6	173.8	207.2	181.0	44.5	27.2
2	59.3	54.2	138.5	66.7	66.5	133.6	64.8		176.4	
3	82.5	84.3	137.8	212.2	211.5	137.6	71.4	209.0	209.8	209.6
4	36.4	39.4	198.5	54.2	57.3	31.3	39.1	41.0	41.0	41.3
5	26.0	26.1	26.9	25.4	29.0	23.7	21.4	25.8	24.0	24.2
6	84.4	85.5	79.0	83.7	82.1	80.6	83.7	80.1	82.8	85.1
7	35.2	38.2	31.6	33.2	33.7	35.4	37.6	44.9	35.4	32.7
8	36.6	40.0	37.9	39.0	38.5	33.7	37.6	34.9	35.4	39.4
9	20.7	22.5	22.3	21.8	21.6	21.9	24.0	20.5	22.1	22.6
10	85.6	86.6	84.6	85.4	85.4	84.7	85.1	84.5	84.6	84.8
11	72.1	72.8	72.0	72.1	72.0	72.4	72.0	72.0	72.3	72.2
12	26.0	25.5	26.1	26.1	26.1	26.0	26.1	26.0	26.2	26.3
13	23.8	25.5	23.9	23.9	23.9	23.8	24.0	24.0	24.1	24.2
14	12.2	12.8	16.5	17.4	16.5	19.2	13.8	13.8	17.9	19.1
15	23.5	25.4	25.5	28.8	29.1	21.2	31.1	29.7	30.0	30.0
16	178.5	77.1								
17		175.4								

[a] Recorded at 100 MHz, (δ, $CDCl_3$); [b] Recorded at 150 MHz, (δ, $CDCl_3$); [c] Recorded at 150 MHz, (δ, CD_3OD).

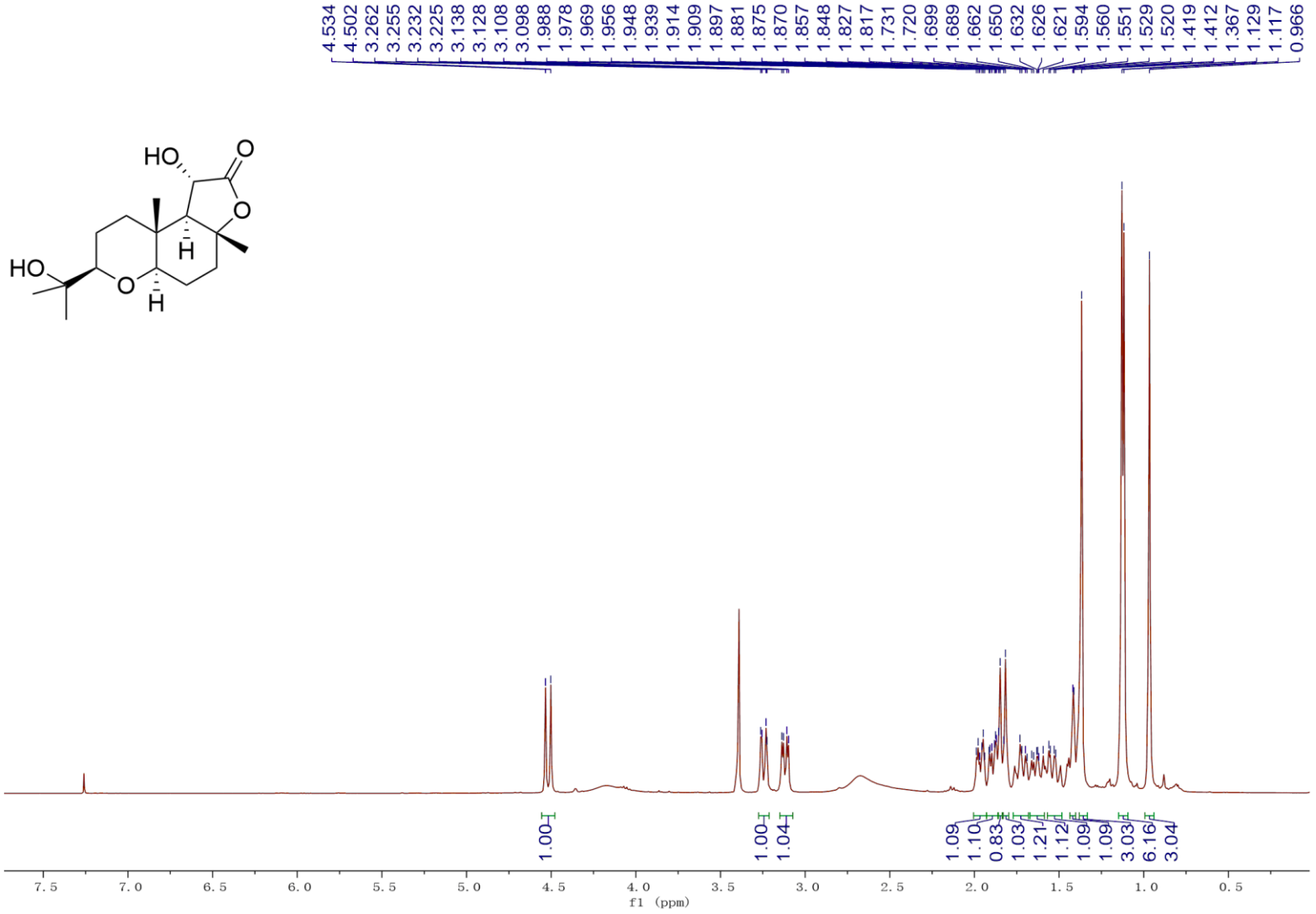

Fig. S1. ^{1}H NMR spectrum ($CDCl_3$, 400 MHz) of **1**

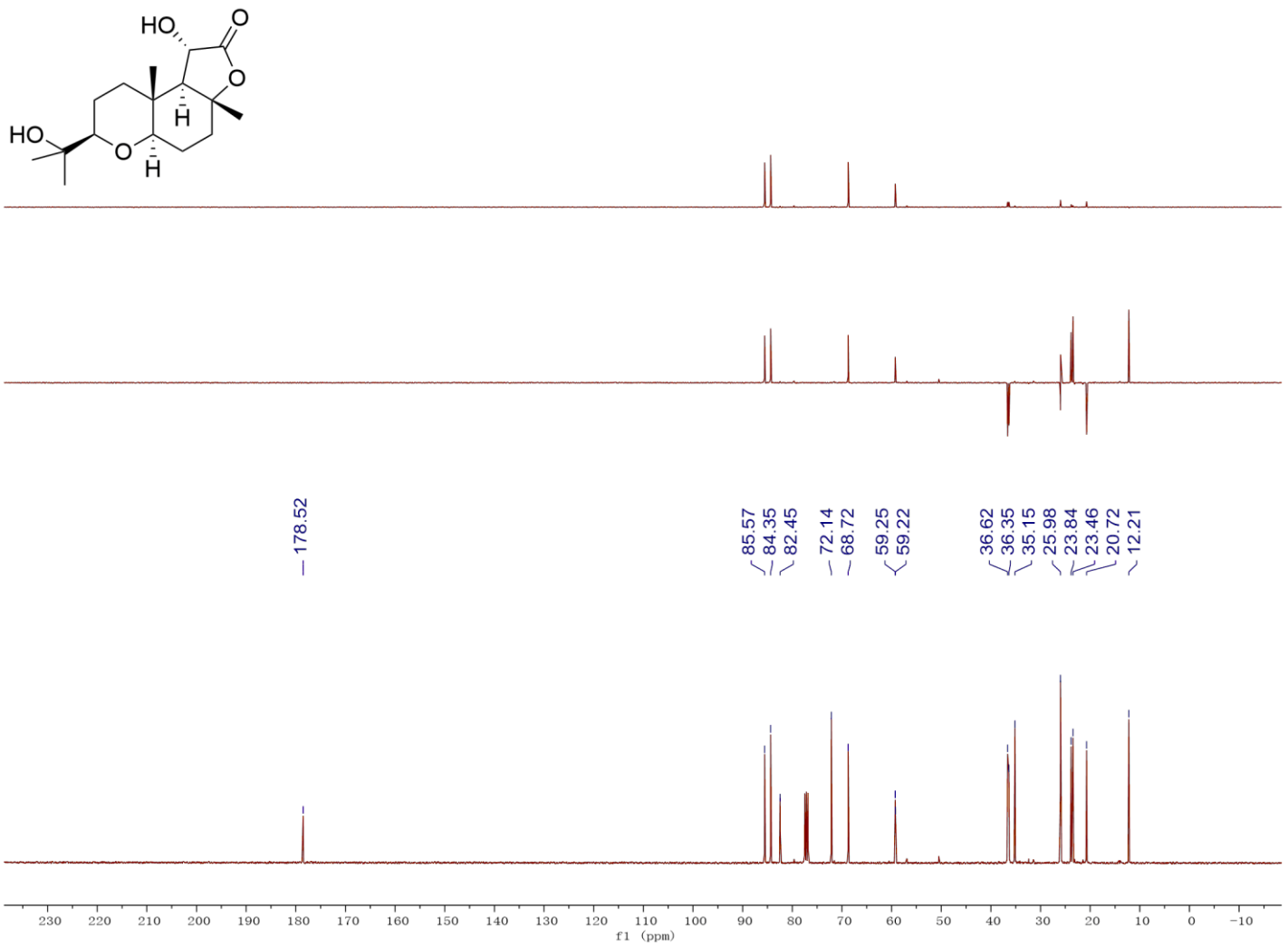

Fig. S2. ^{13}C and DEPT spectra ($CDCl_3$, 100 MHz) of **1**

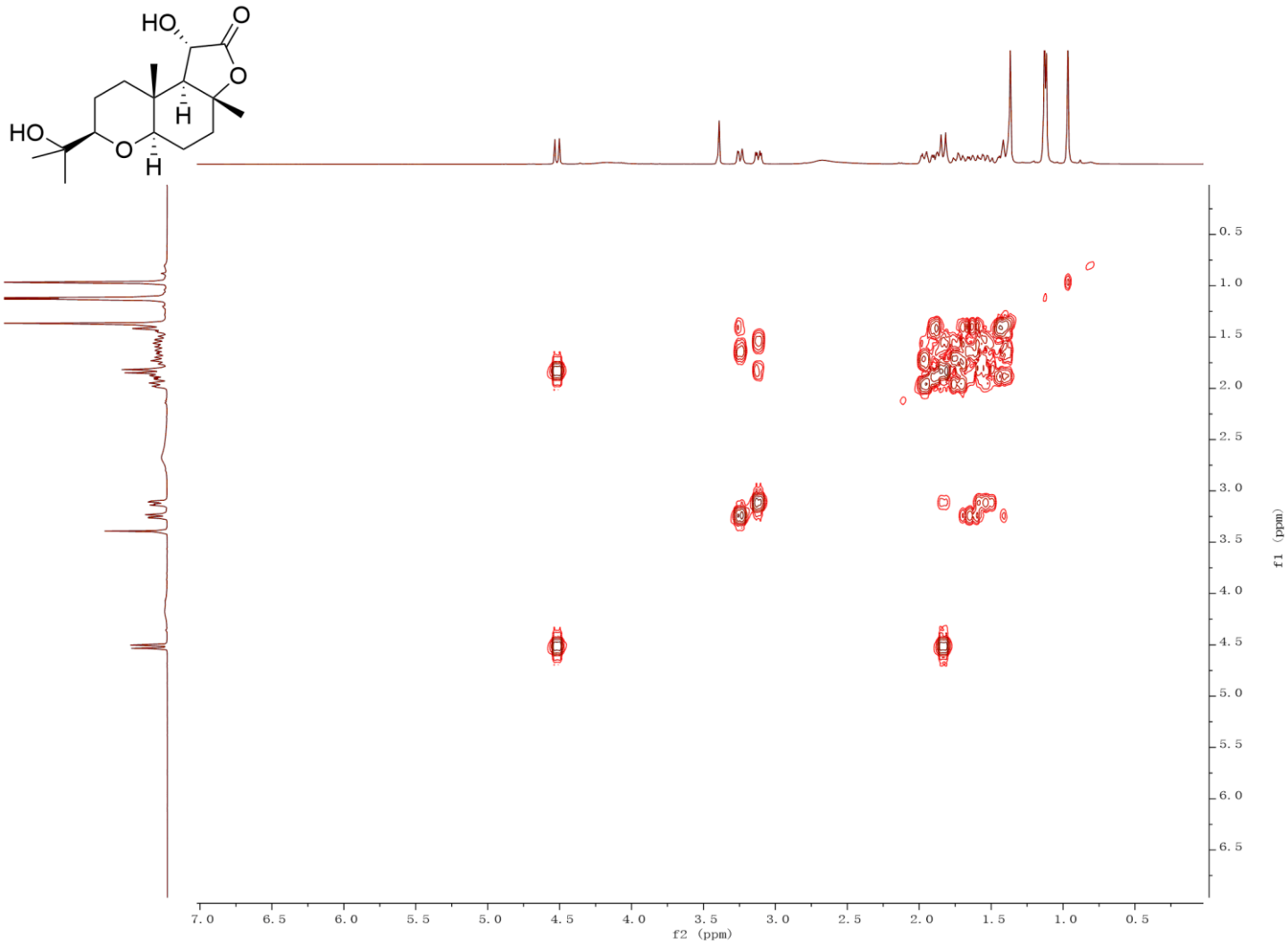

Fig. S3. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 400 MHz) of **1**

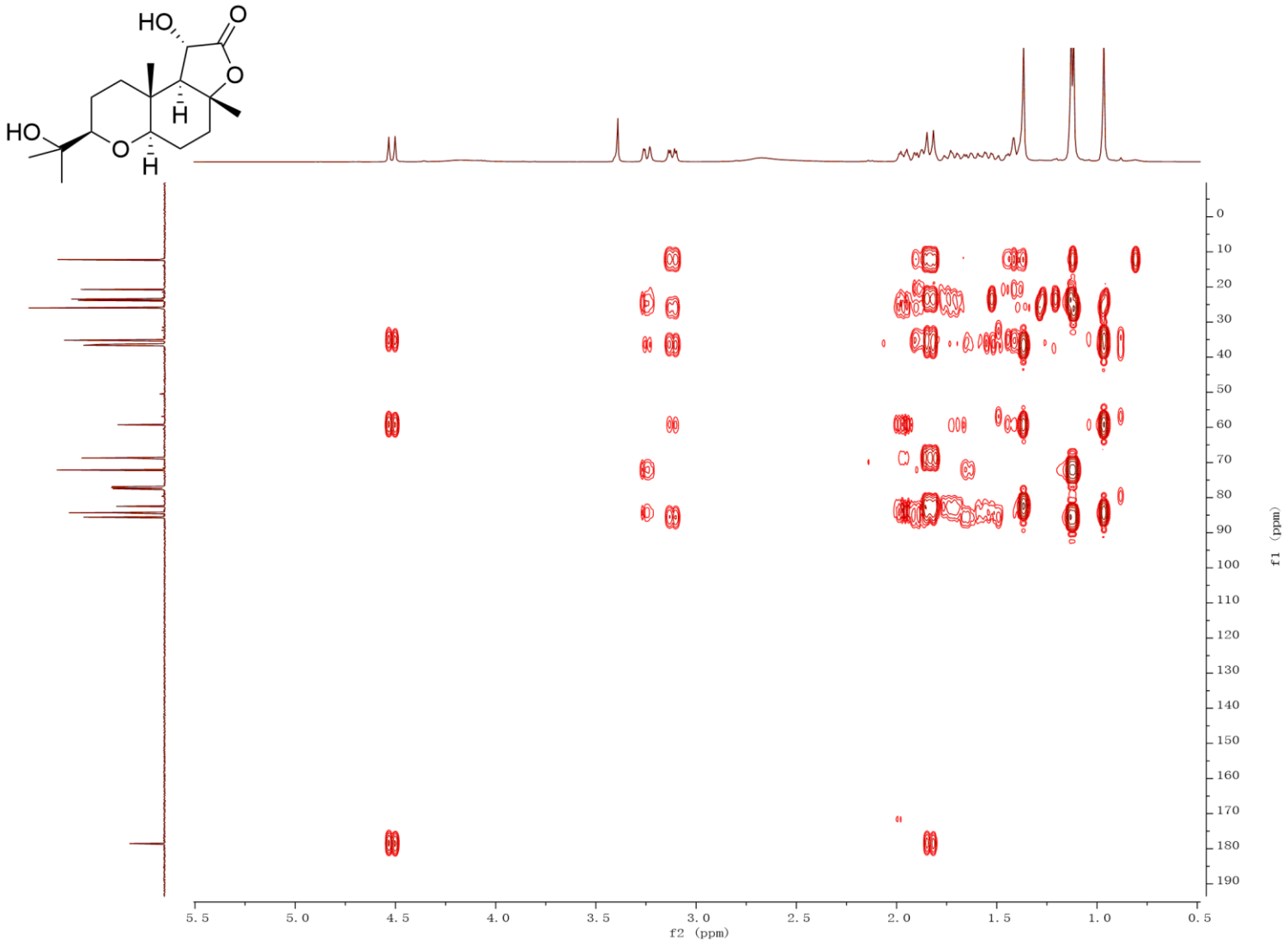

Fig. S4. HMBC spectrum ($CDCl_3$, 400 MHz) of **1**

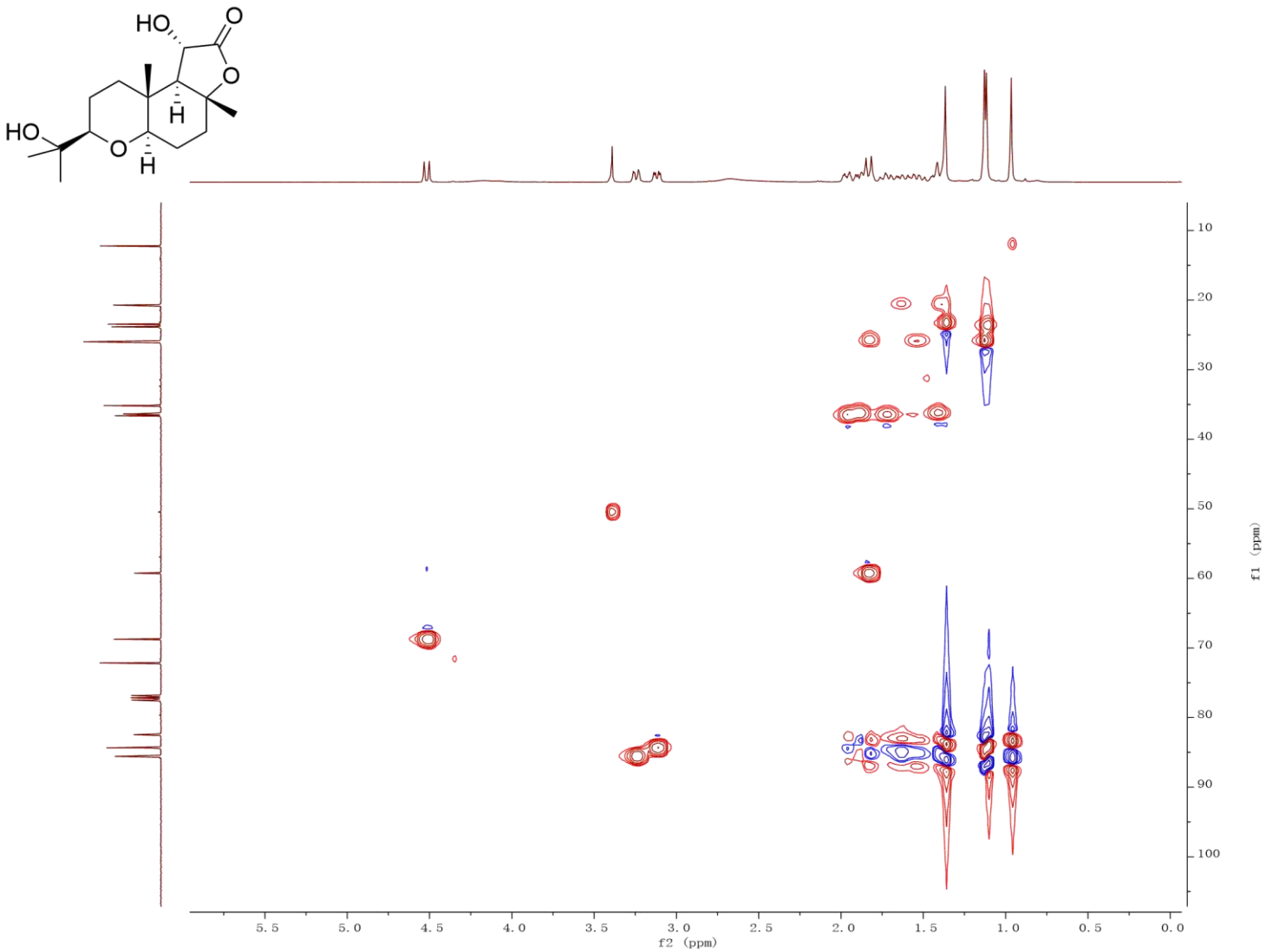

Fig. S5. HSQC spectrum ($CDCl_3$, 400 MHz) of **1**

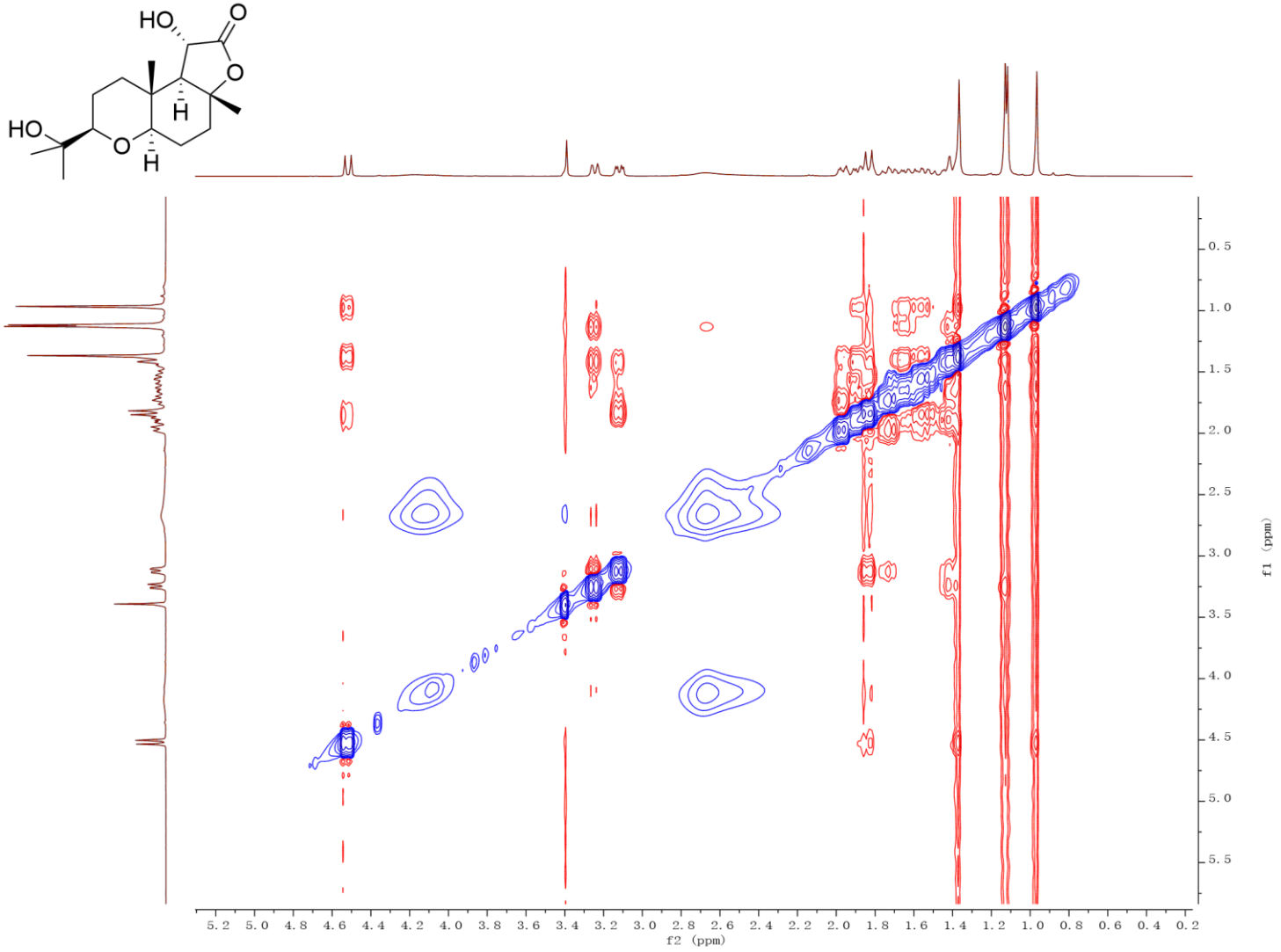

Fig. S6. NOESY spectrum ($CDCl_3$, 400 MHz) of **1**

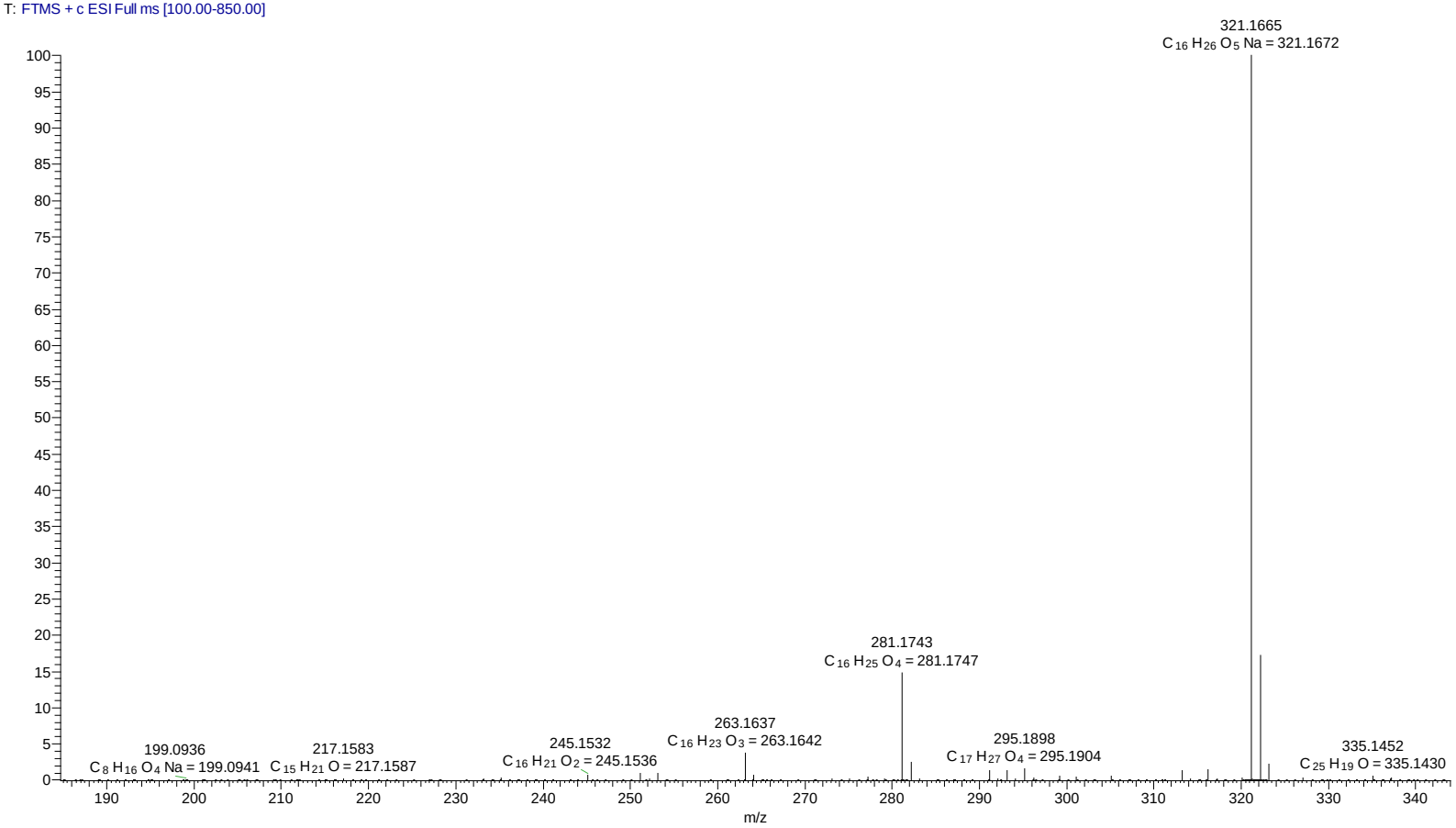

Fig. S7. (+)-HR-ESI-MS (positive mode) of **1**

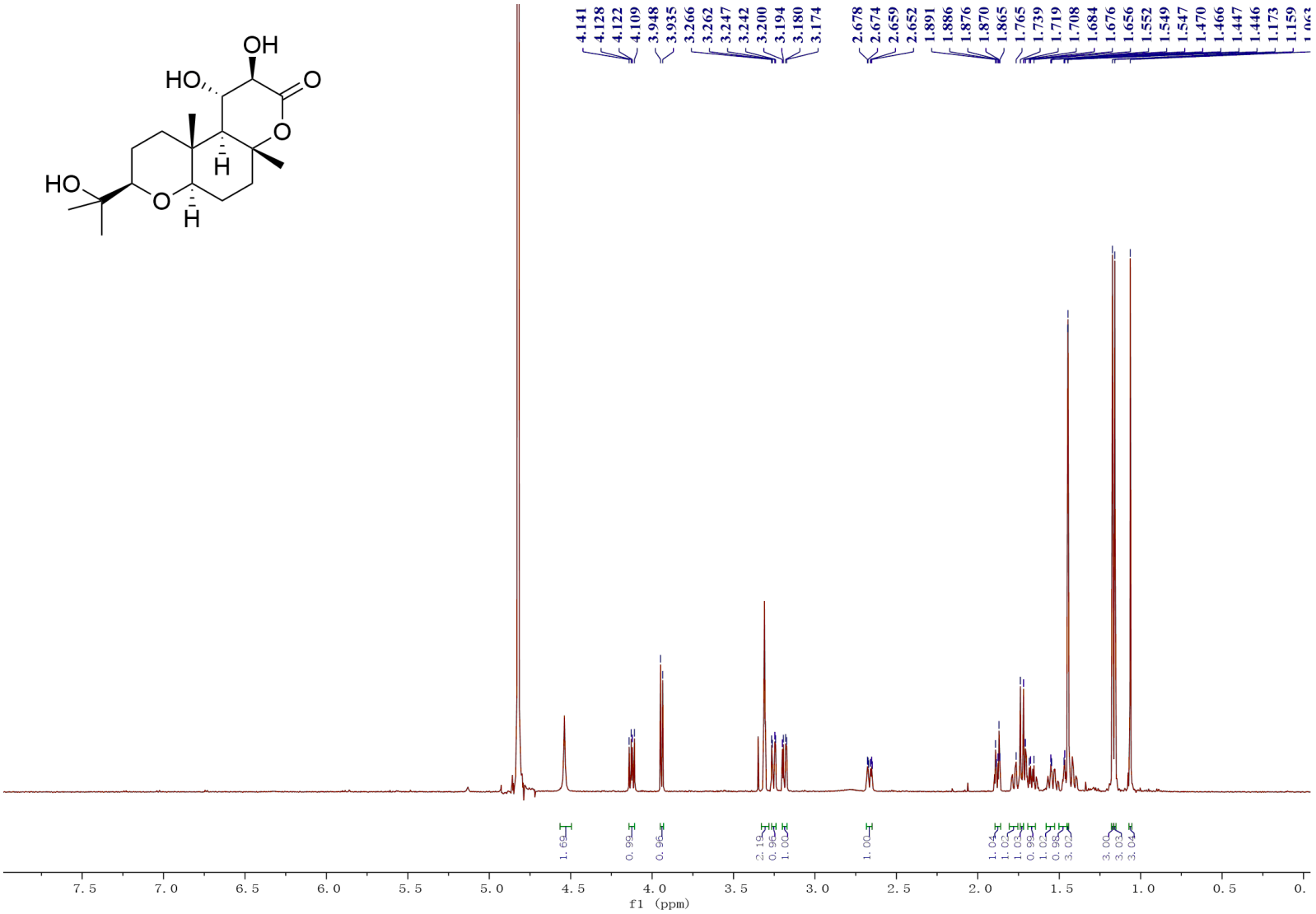

Fig. S8. ^{1}H NMR spectrum (MeOD, 600 MHz) of **2**

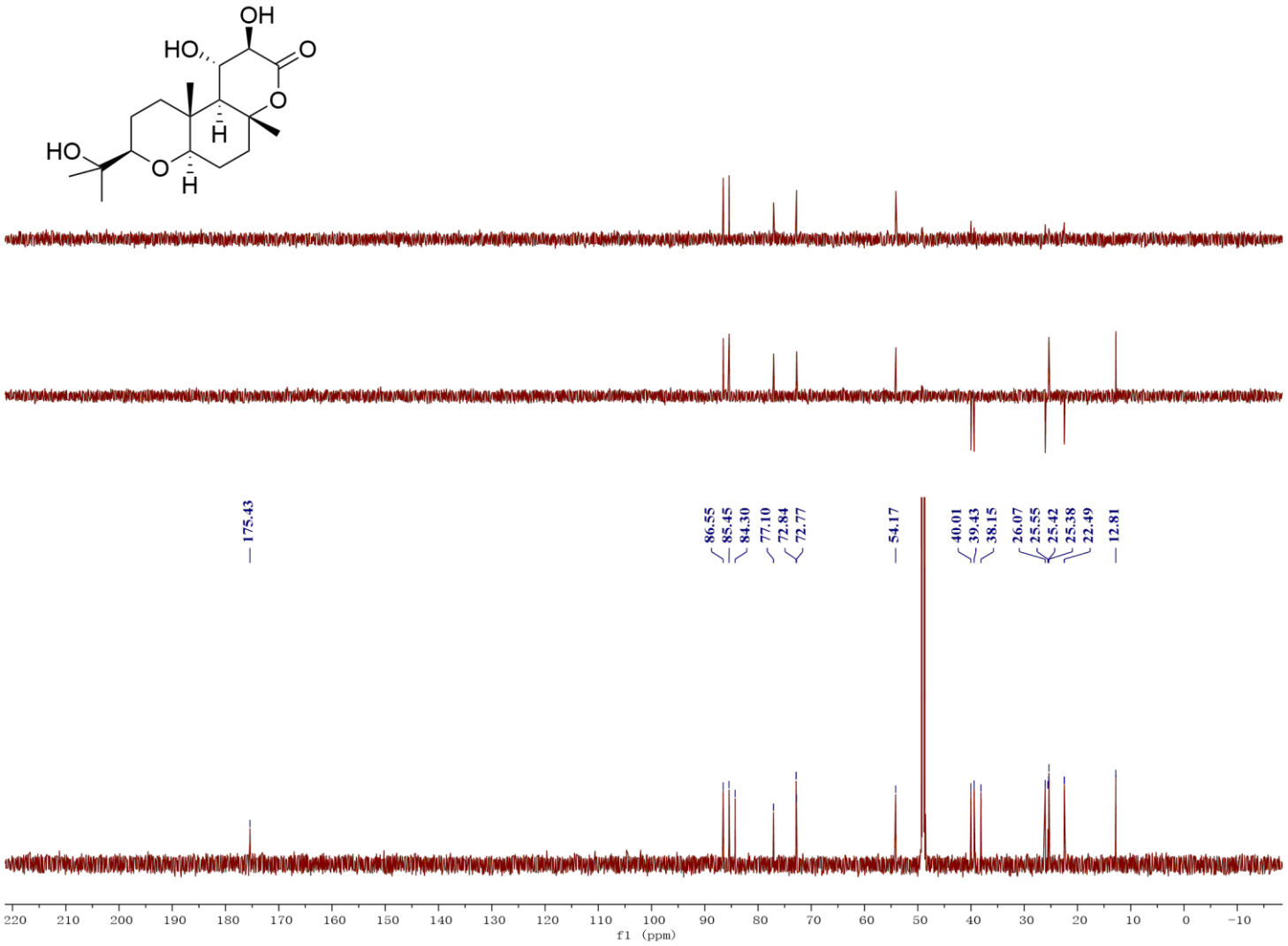

Fig. S9. ^{13}C and DEPT spectra (MeOD, 150 MHz) of **2**

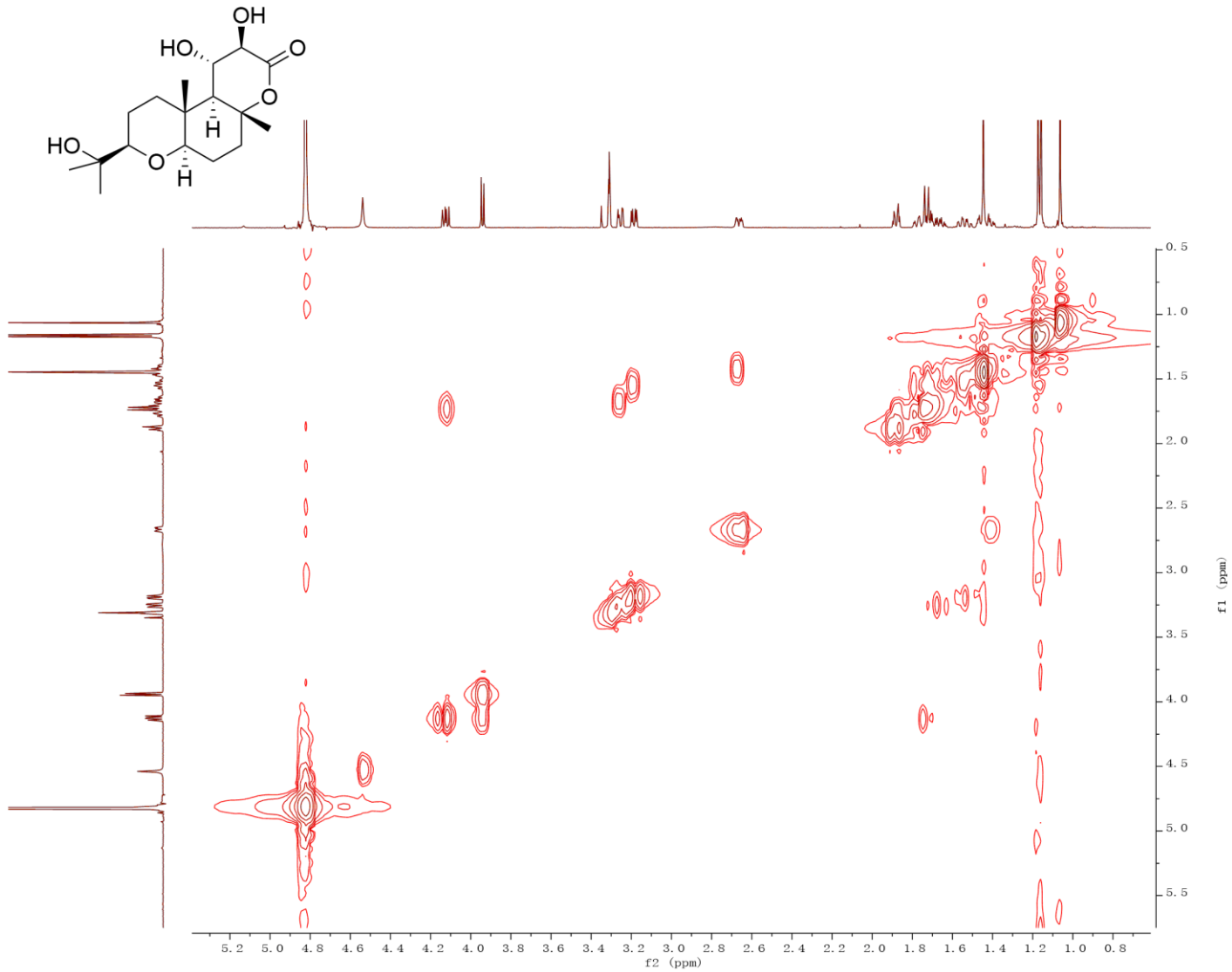

Fig. S10. ^{1}H-^{1}H COSY spectrum (MeOD, 600 MHz) of **2**

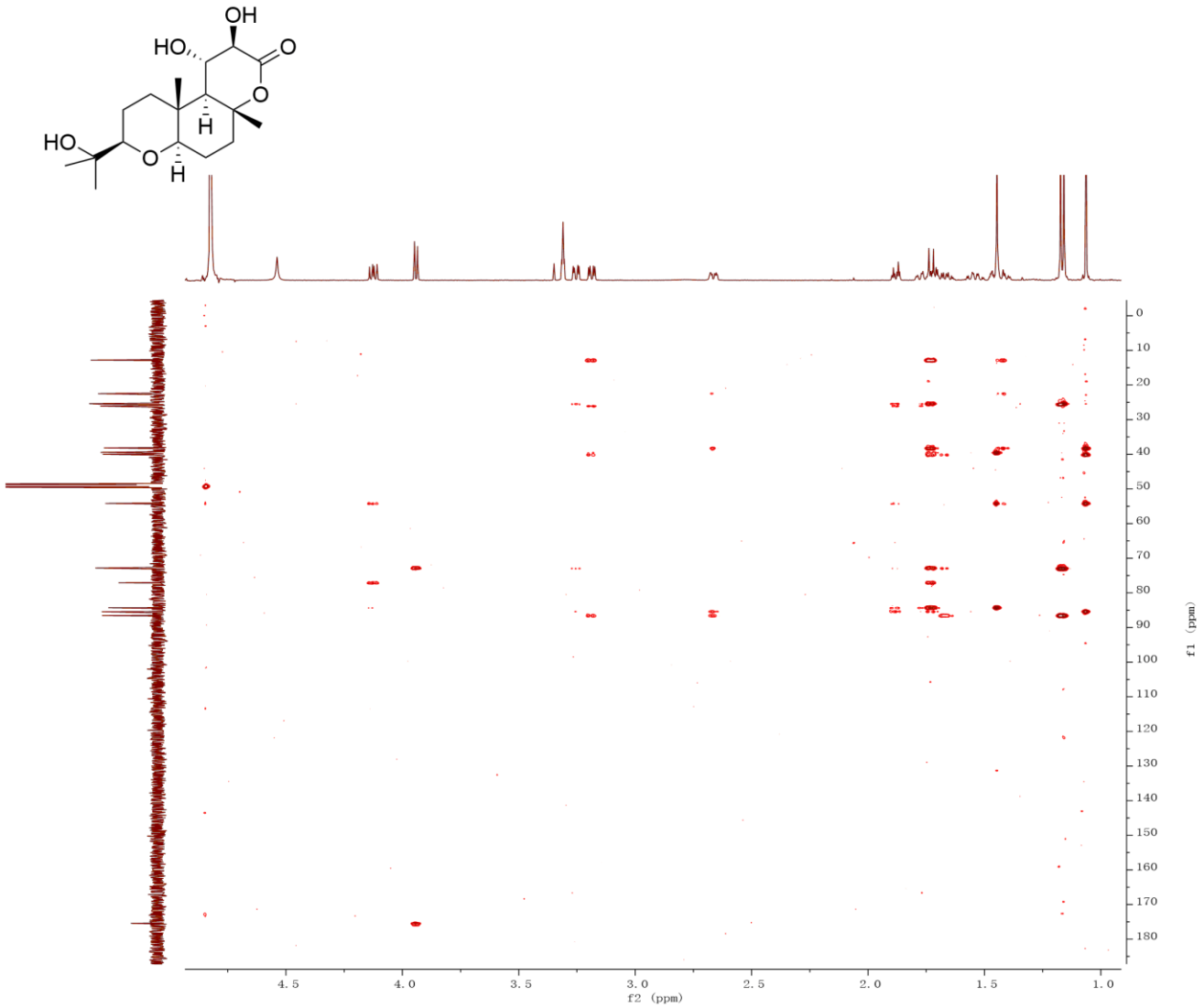

Fig. S11. HMBC spectrum (MeOD, 600 MHz) of **2**

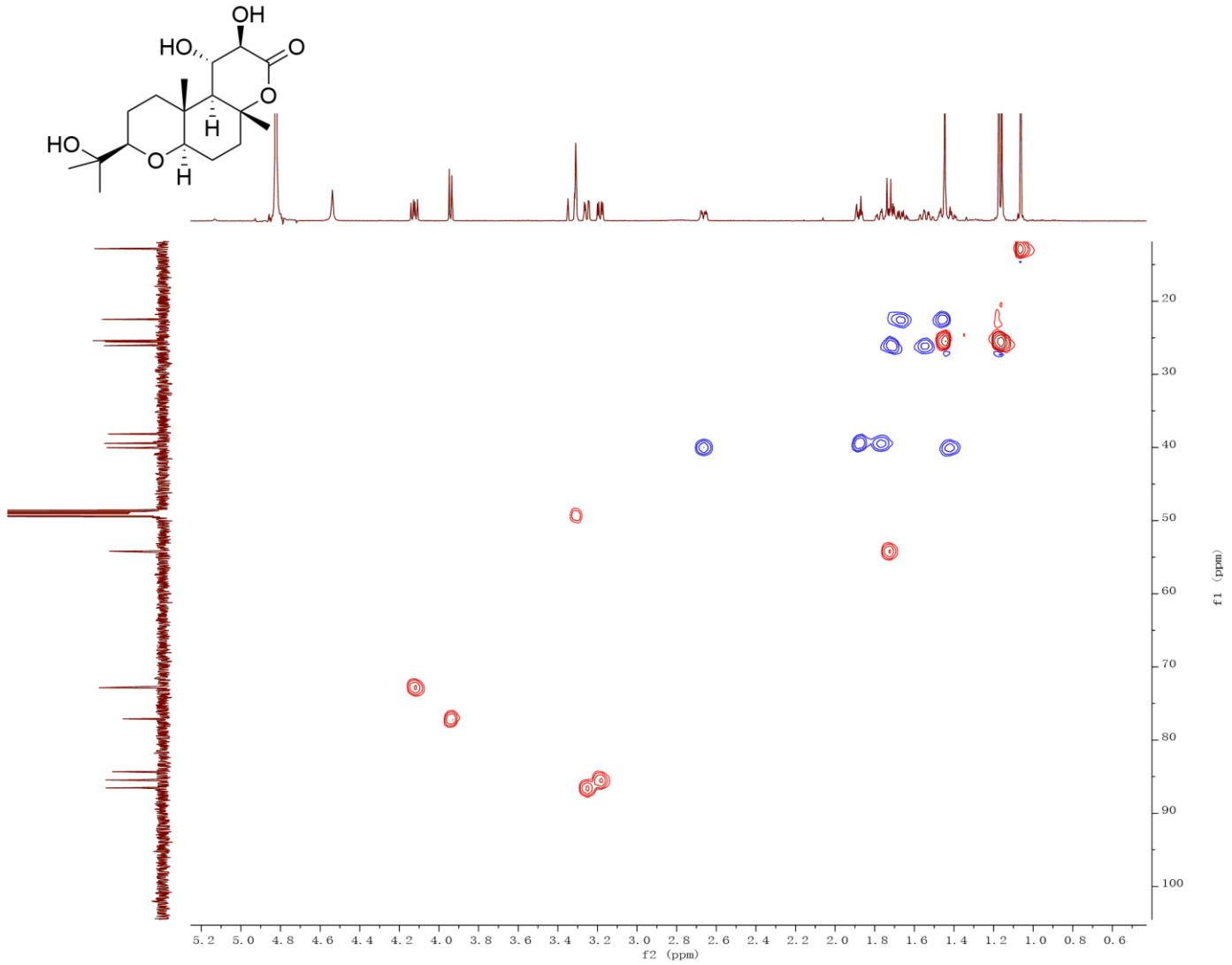

Fig. S12. HSQC spectrum (MeOD, 600 MHz) of **2**

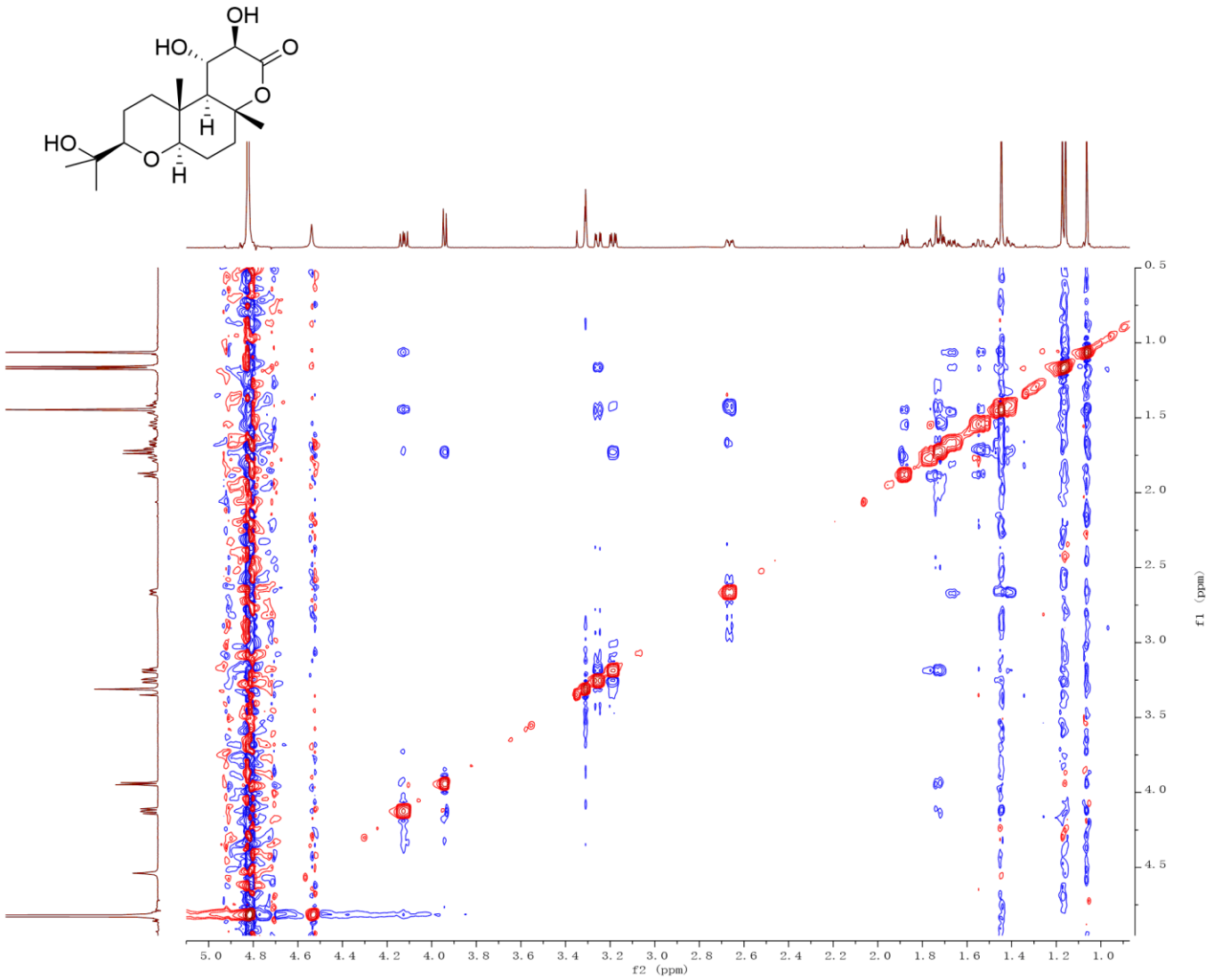

Fig. S13. NOESY spectrum (MeOD, 600 MHz) of **2**

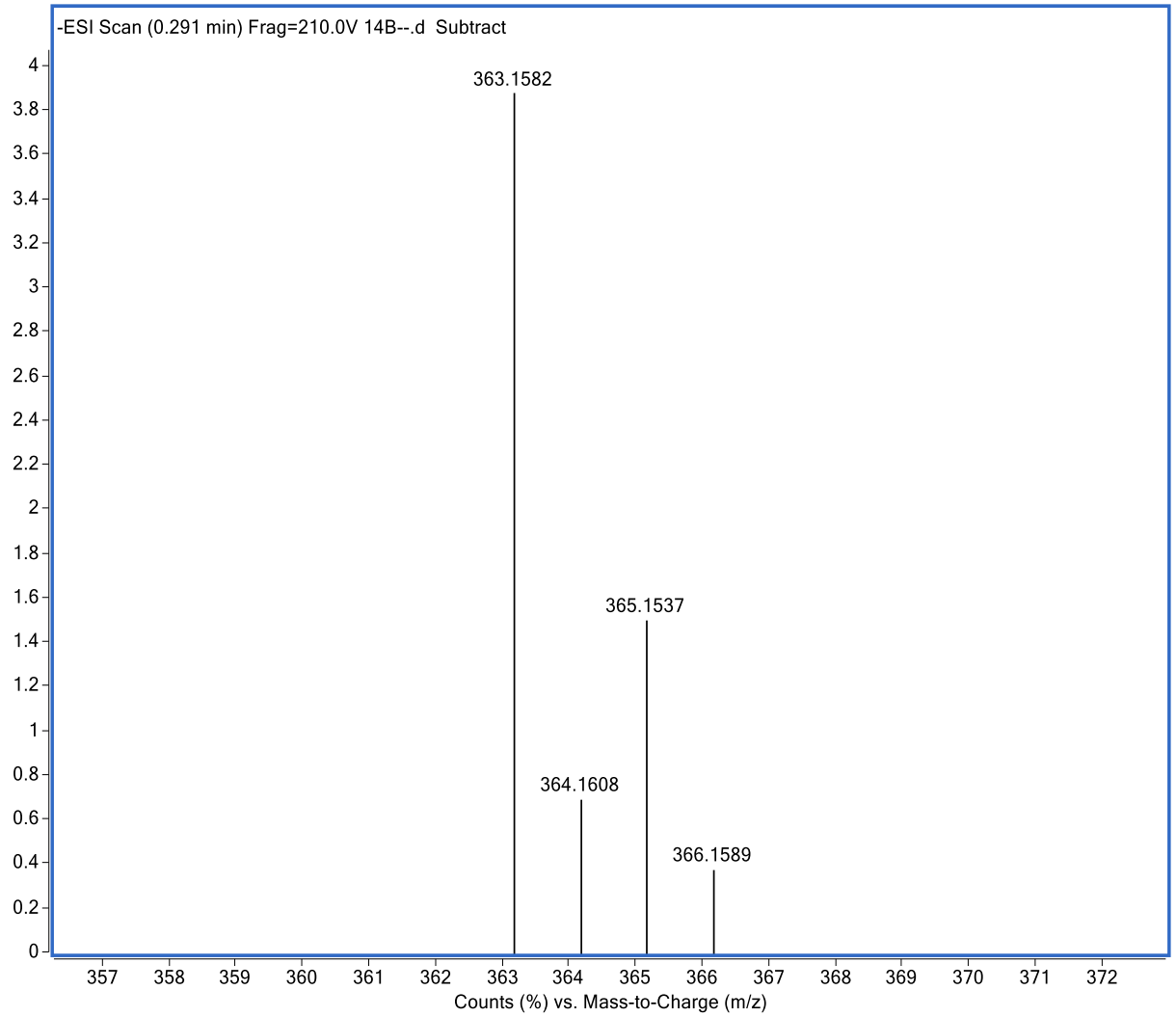

Fig. S14. (+)-HR-ESI-MS (positive mode) of **2**.

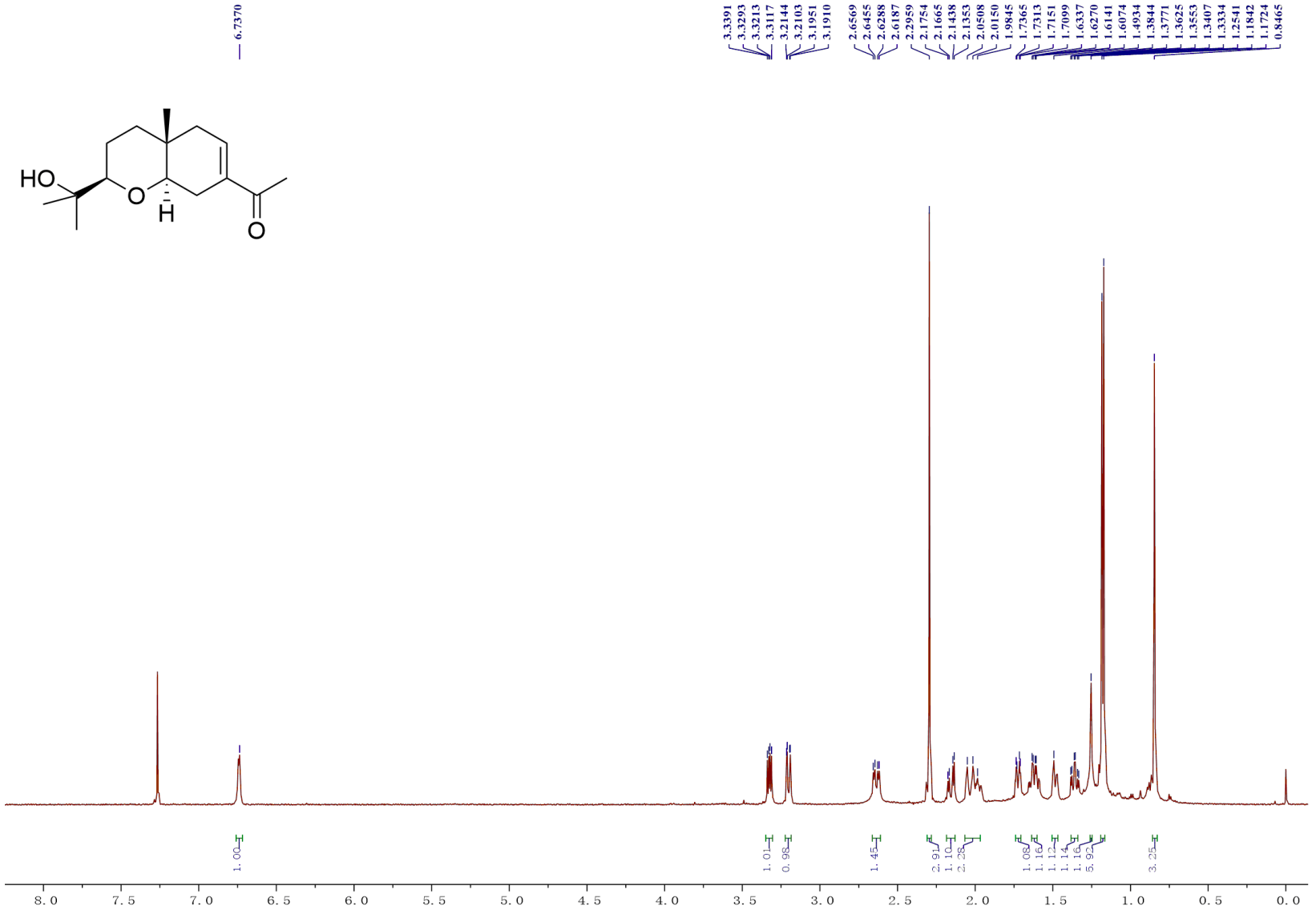

Fig. S15. ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **3**

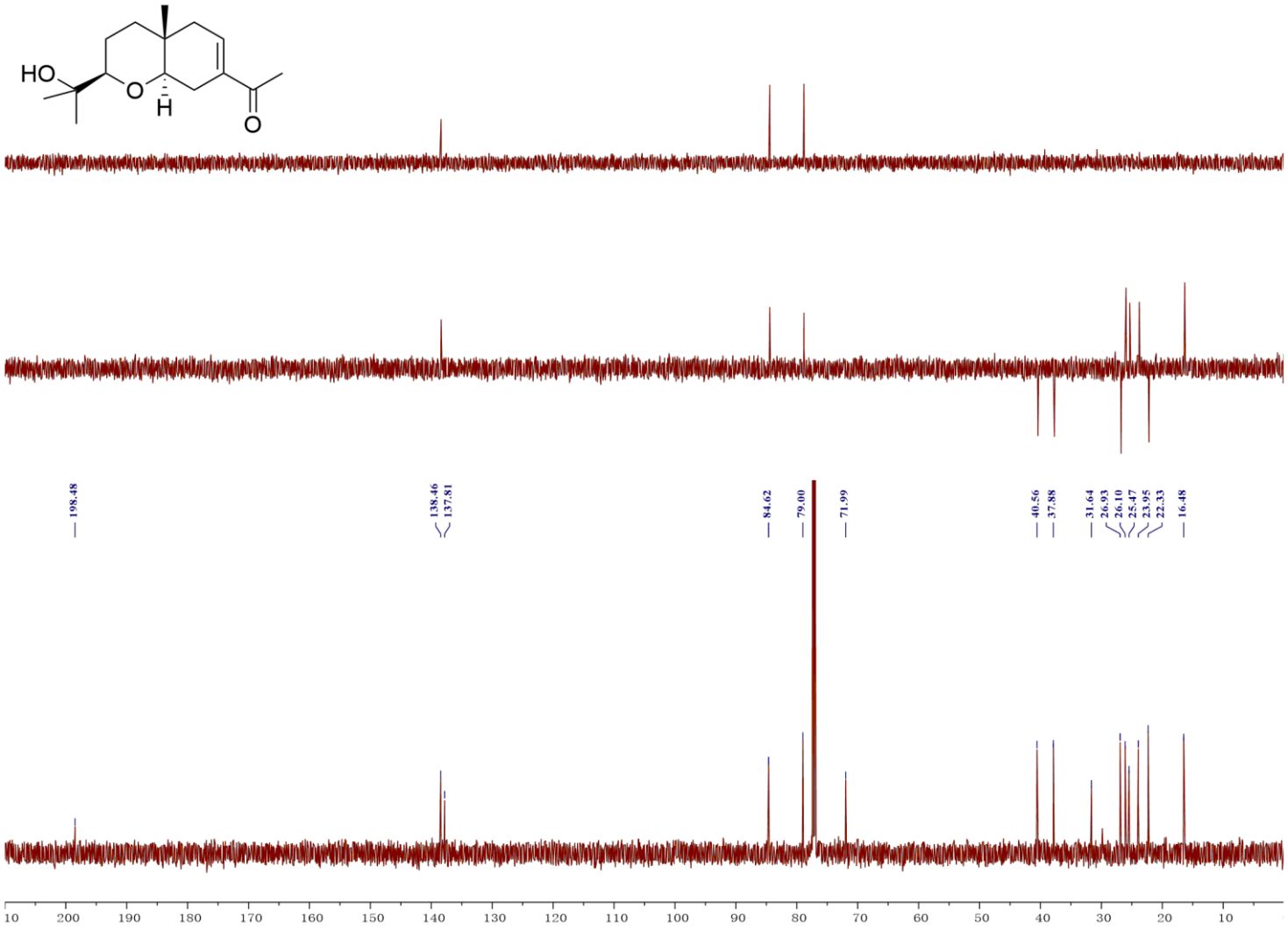

Fig. S16. ^{13}C and DEPT spectra ($CDCl_3$, 150 MHz) of **3**

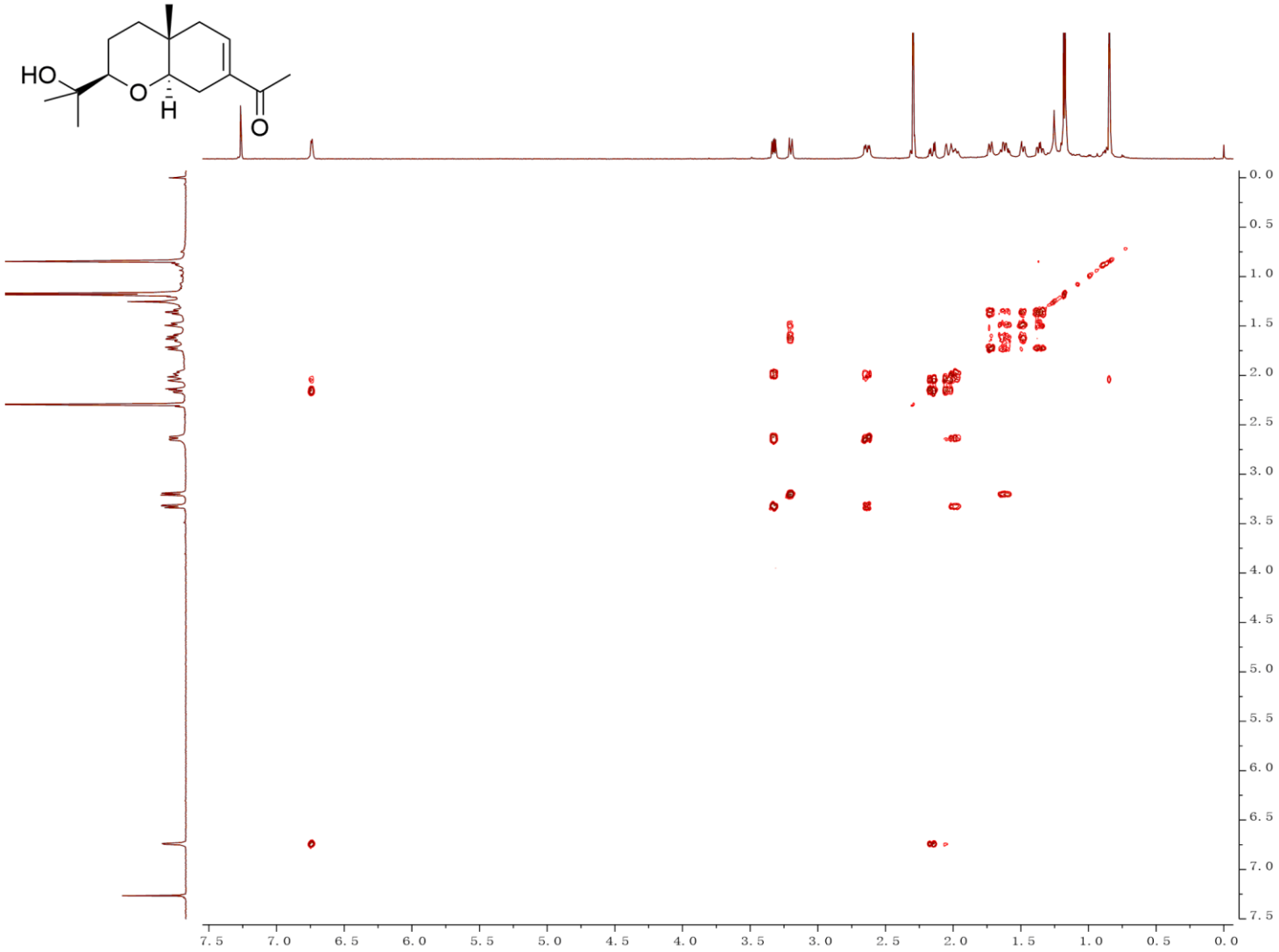

Fig. S17. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 600 MHz) of **3**

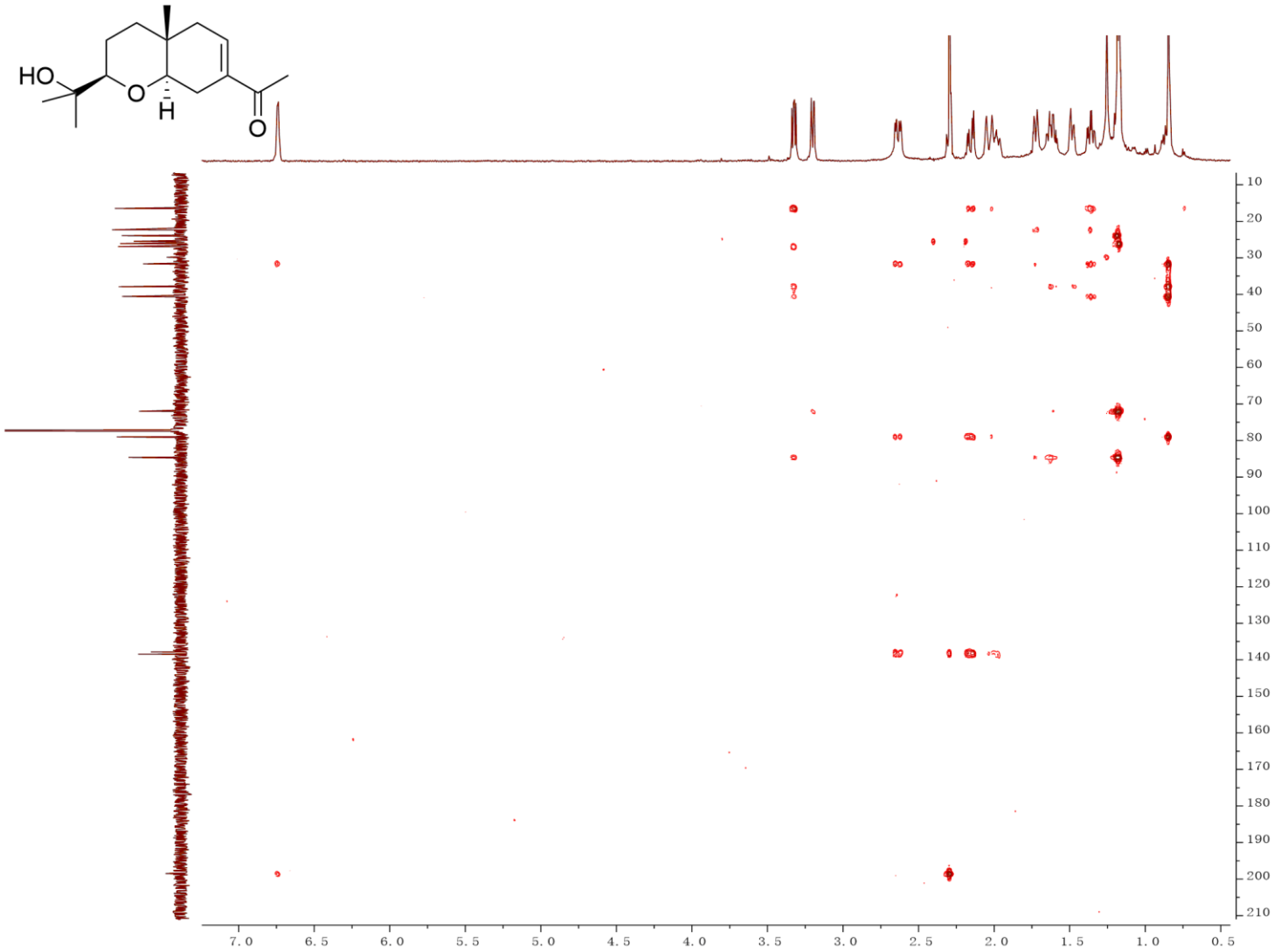

Fig. S18. HMBC spectrum ($CDCl_3$, 600 MHz) of **3**

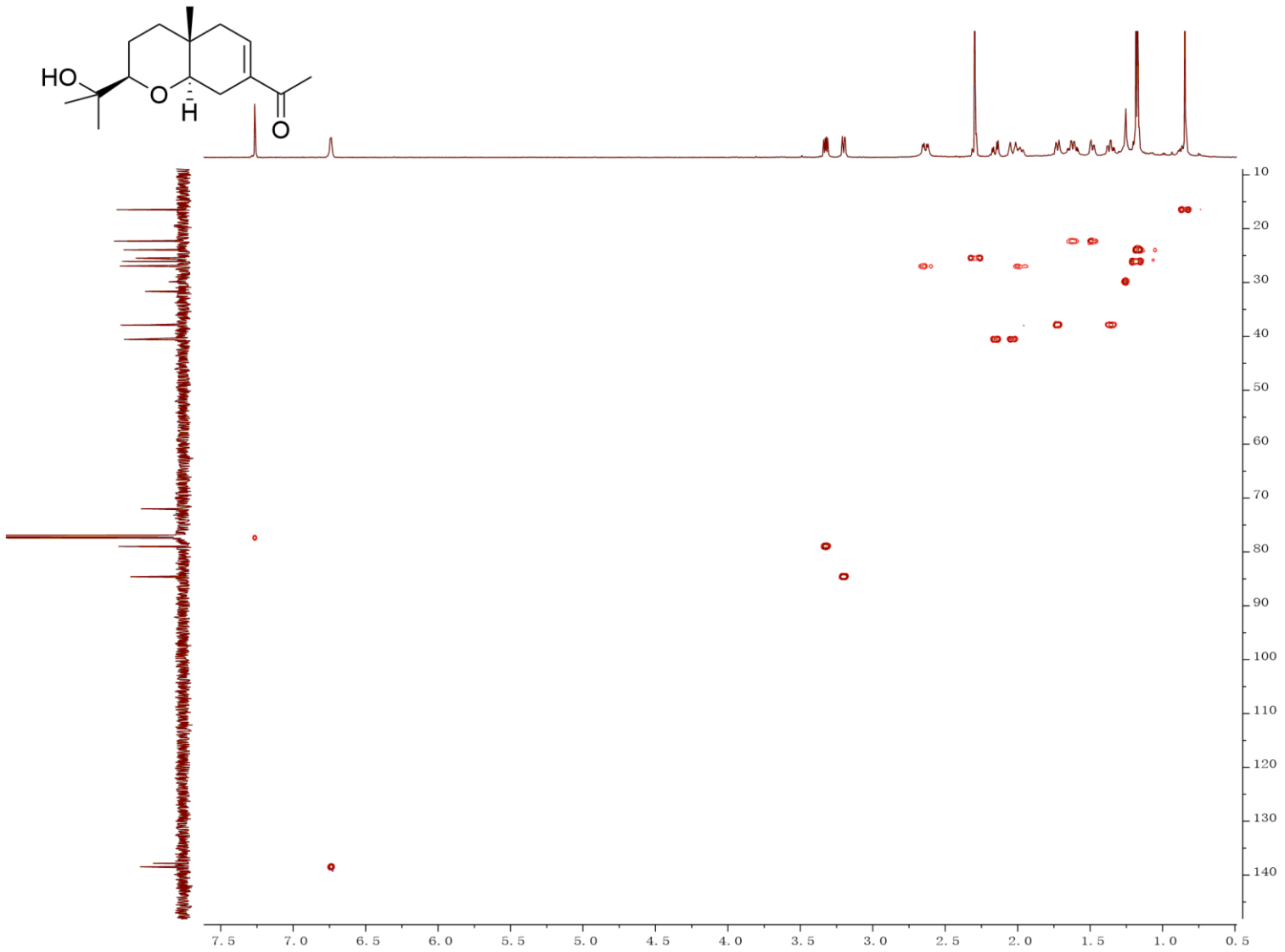

Fig. S19. HSQC spectrum ($CDCl_3$, 600 MHz) of **3**

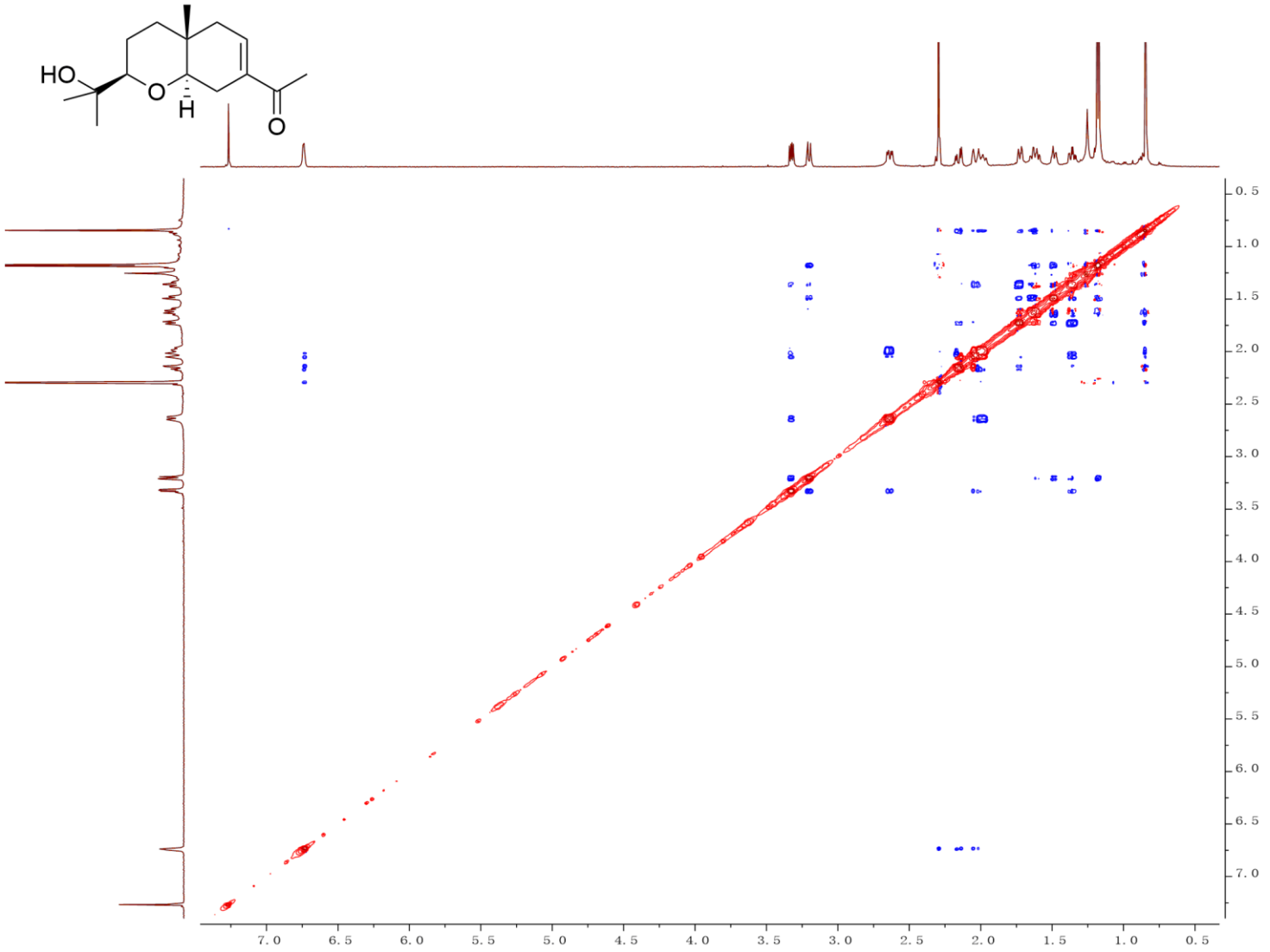

Fig. S20. NOESY spectrum ($CDCl_3$, 600 MHz) of **3**

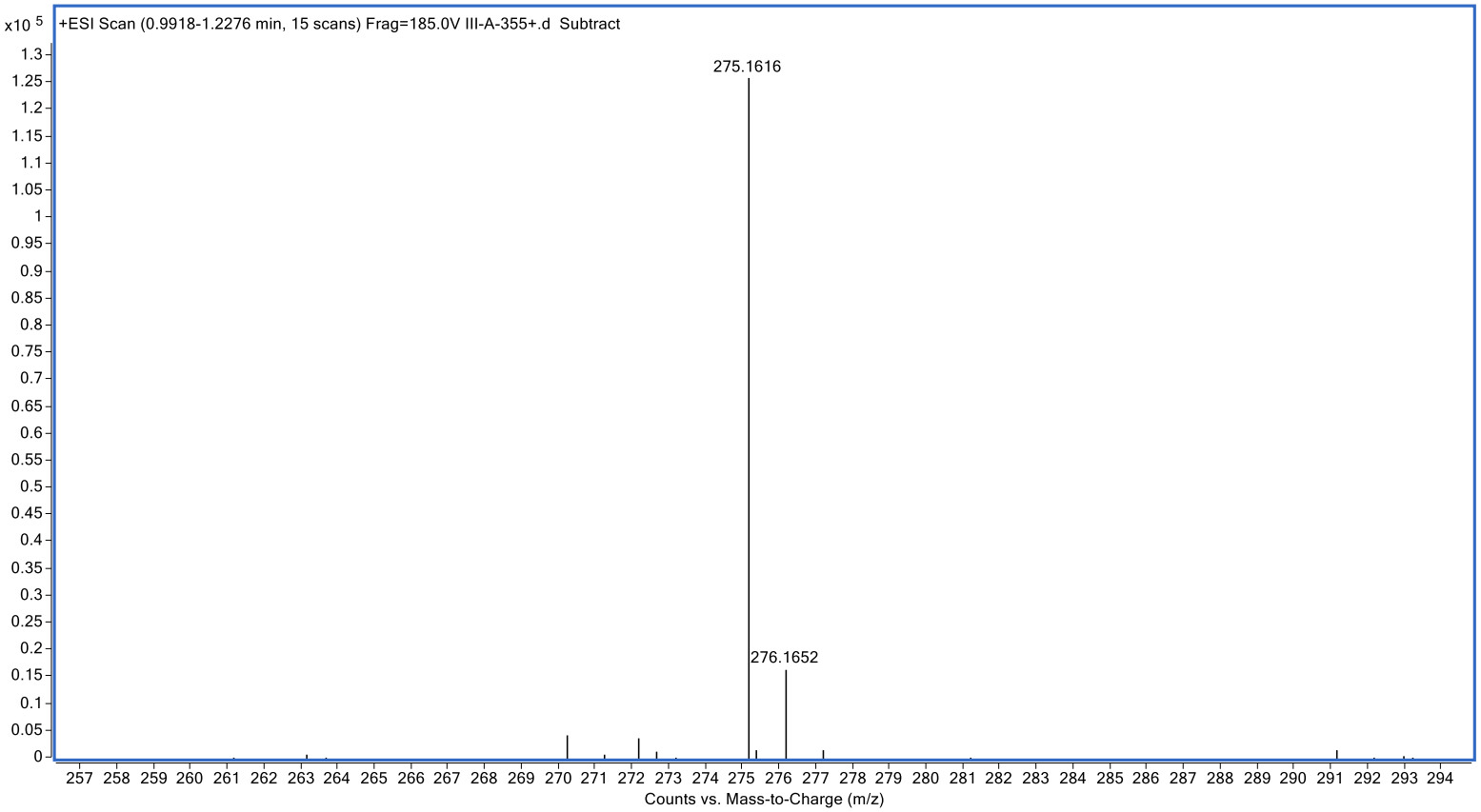

Fig. S21. (+)-HR-ESI-MS (positive mode) of **3**

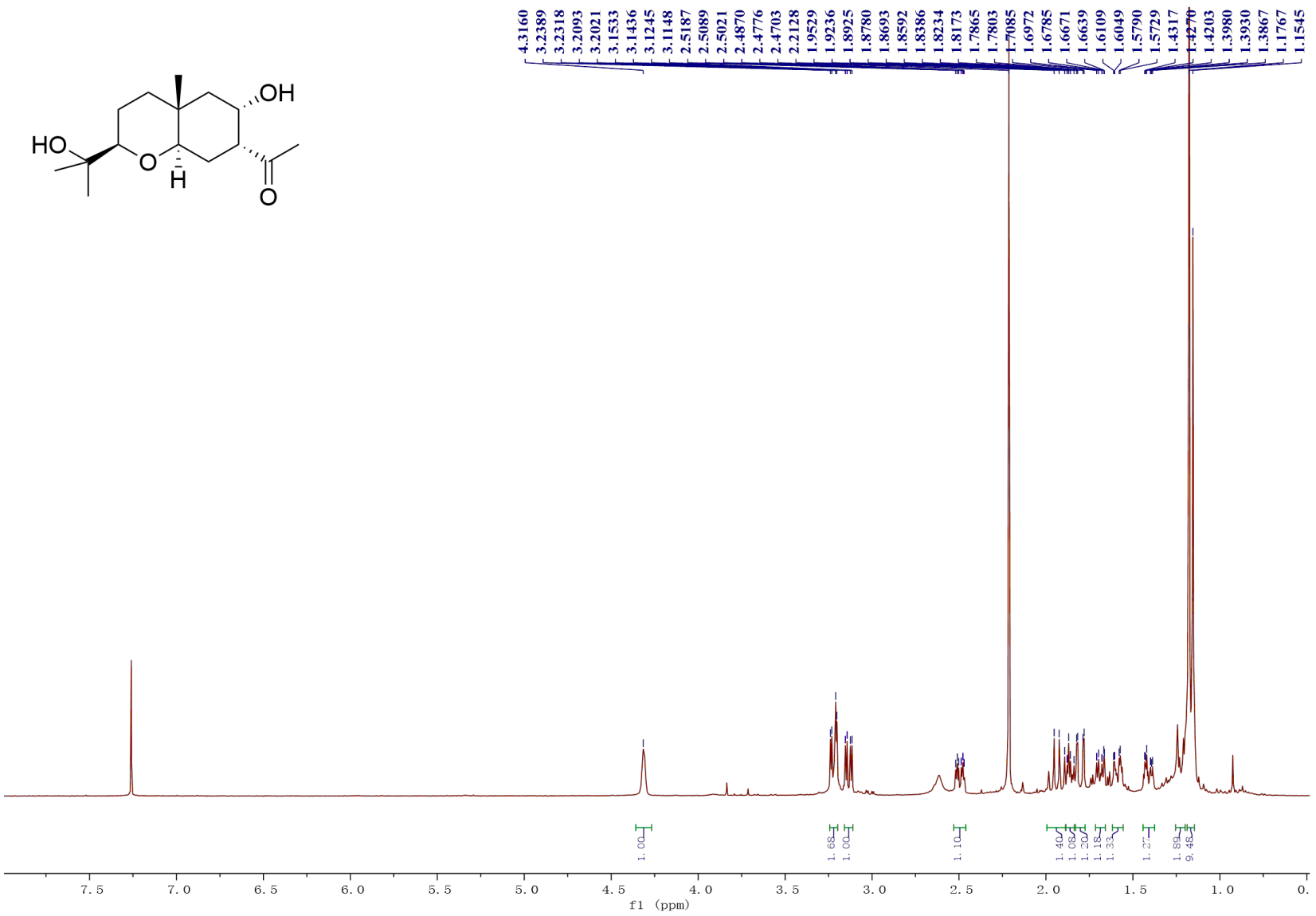

Fig. S22. ^{1}H NMR spectrum ($CDCl_3$, 400 MHz) of **4**

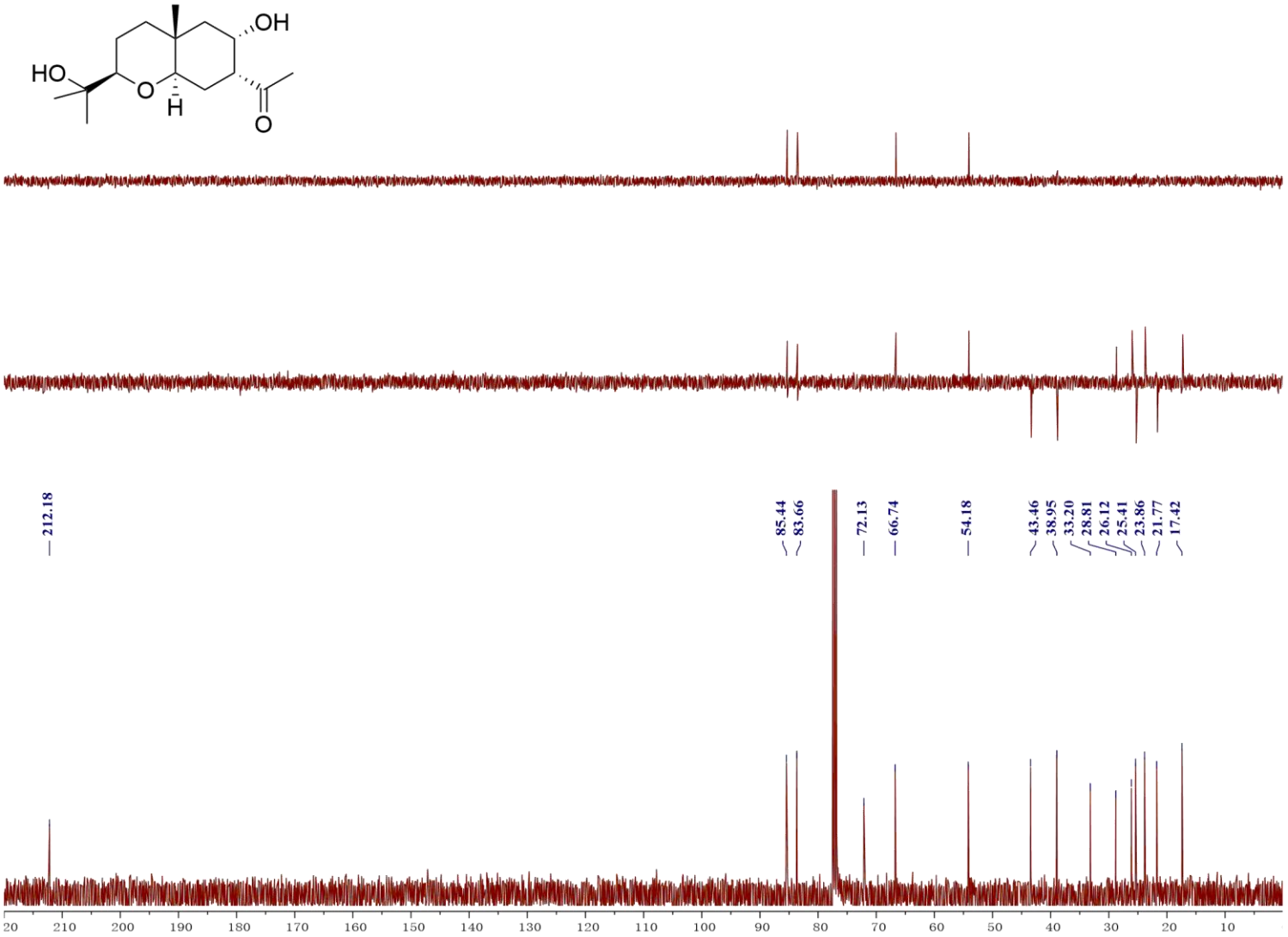

Fig. S23. ^{13}C and DEPT spectra ($CDCl_3$, 100 MHz) of **4**

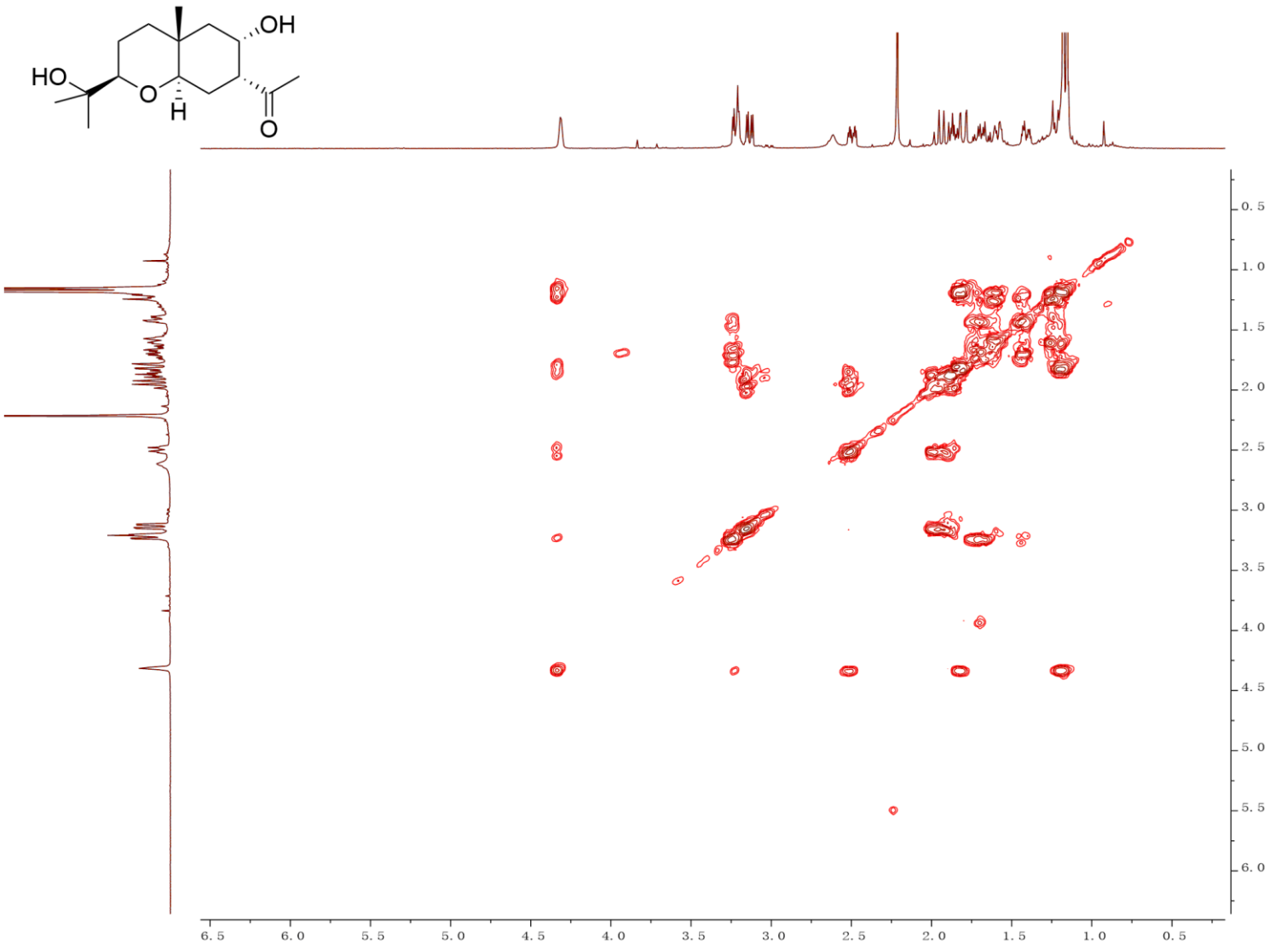

Fig. S24. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 400 MHz) of **4**

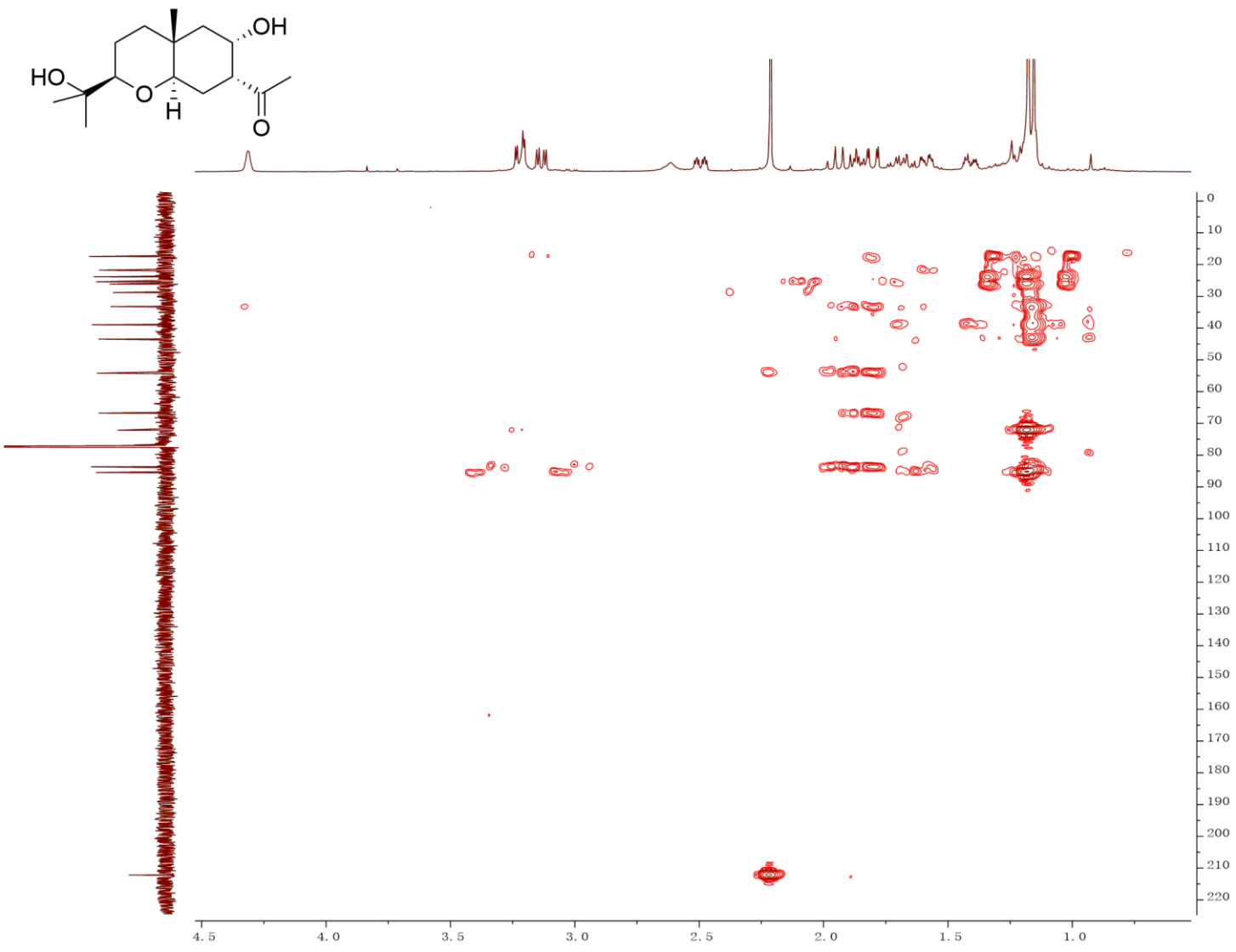

Fig. S25. HMBC spectrum ($CDCl_3$, 400 MHz) of **4**

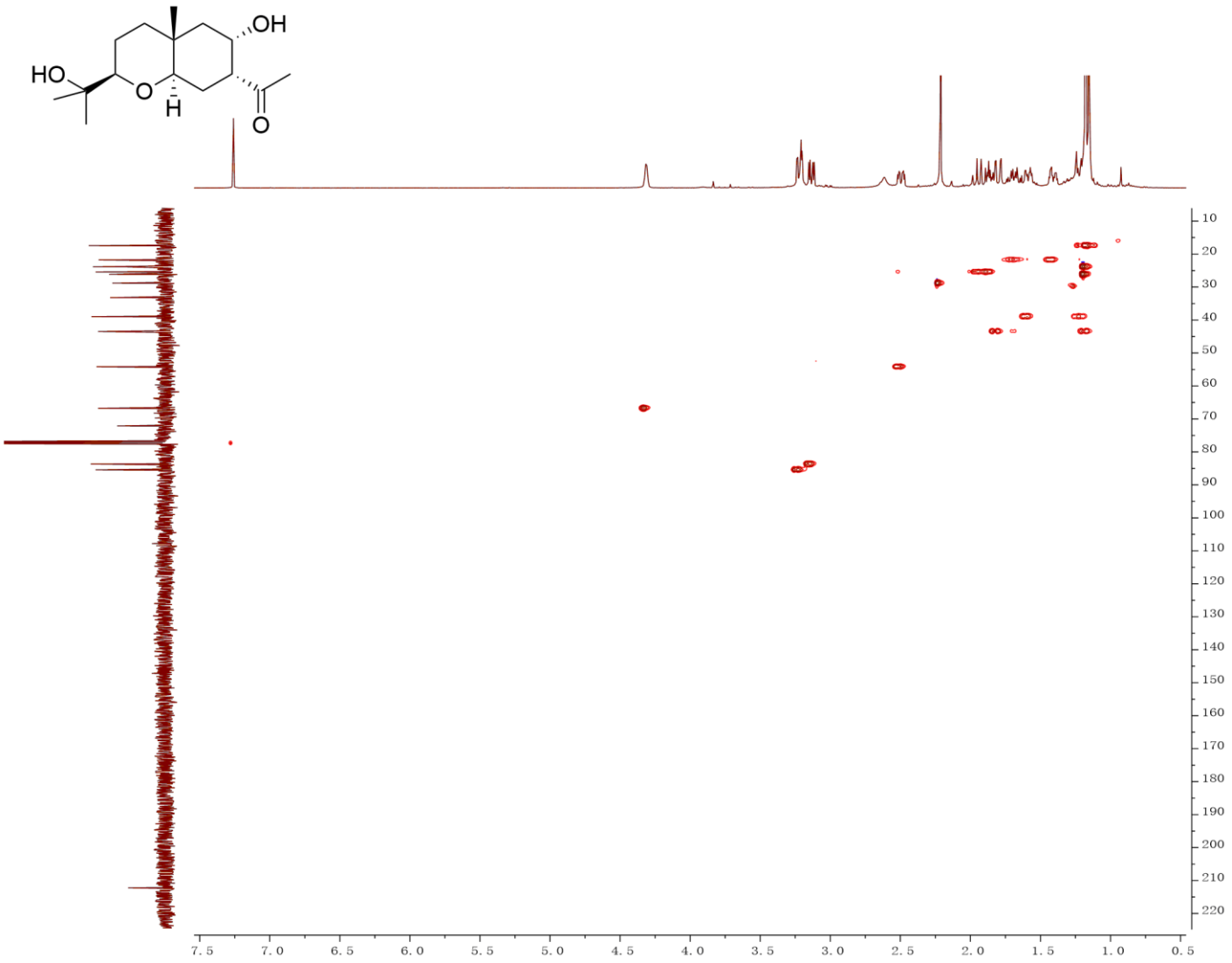

Fig. S26. HSQC spectrum ($CDCl_3$, 400 MHz) of **4**

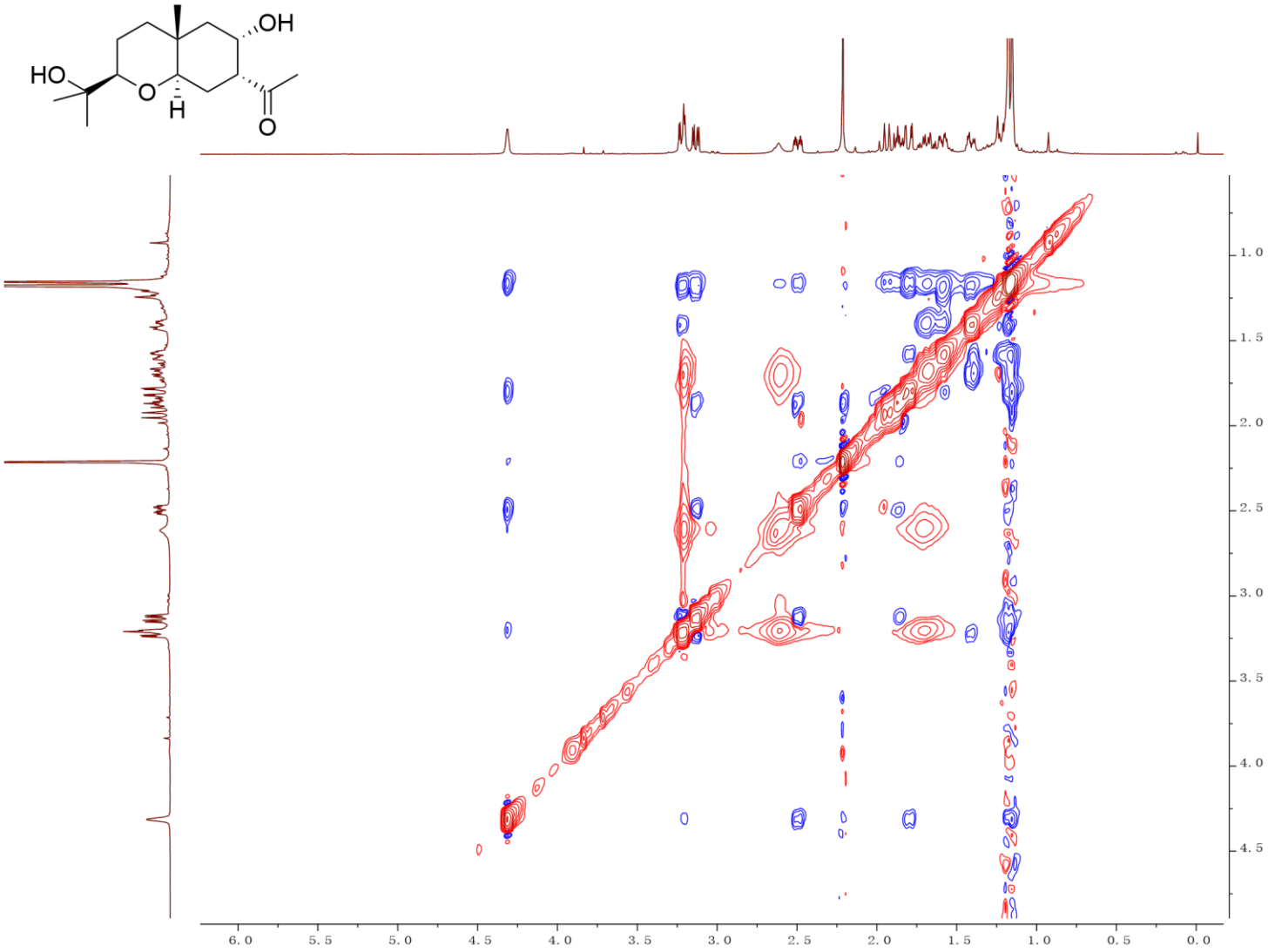

Fig. S27. NOESY spectrum ($CDCl_3$, 400 MHz) of **4**

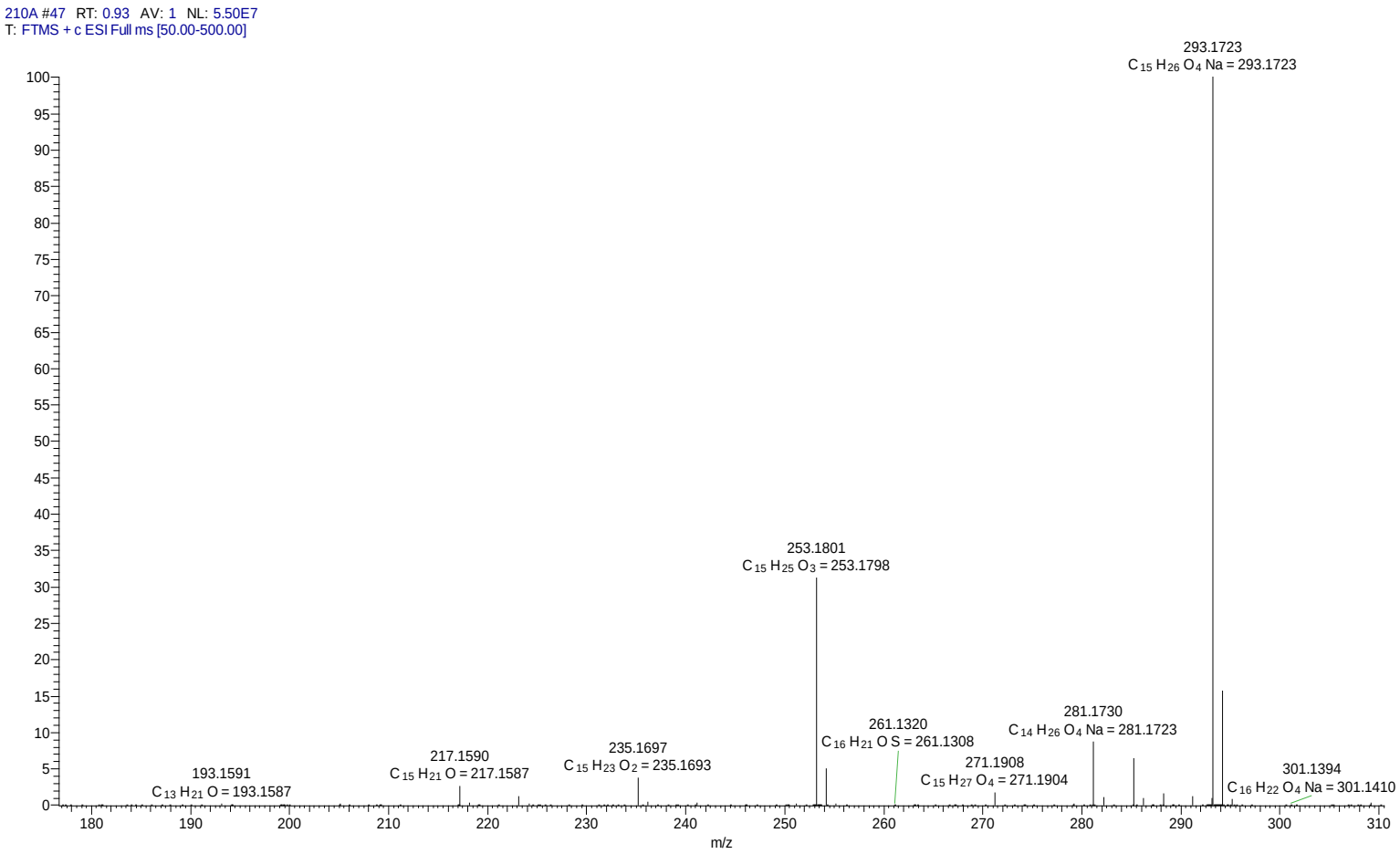

Fig. S28. (+)-HR-ESI-MS (positive mode) of **4**

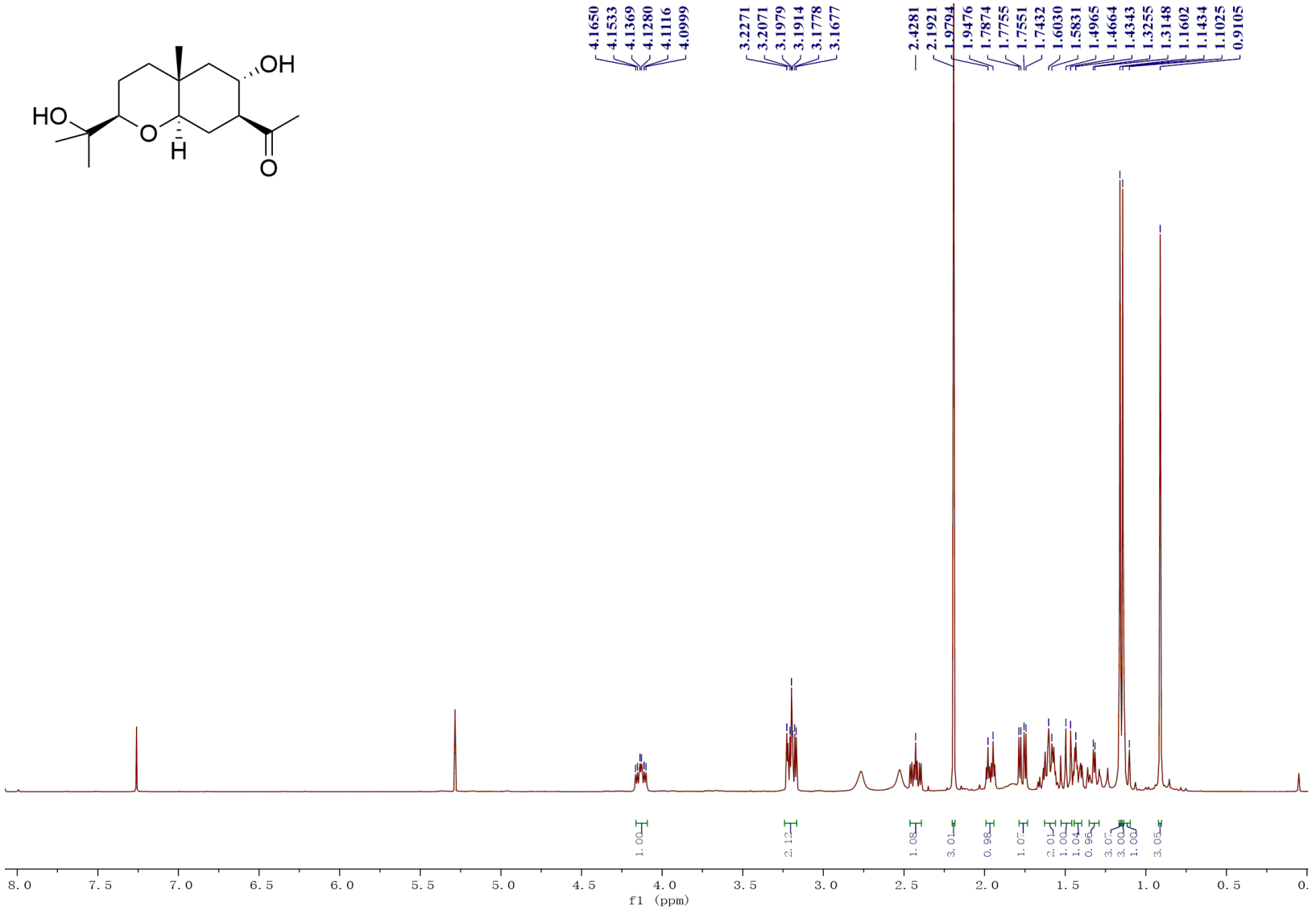

Fig. S29. ^{1}H NMR spectrum ($CDCl_3$, 400 MHz) of **5**

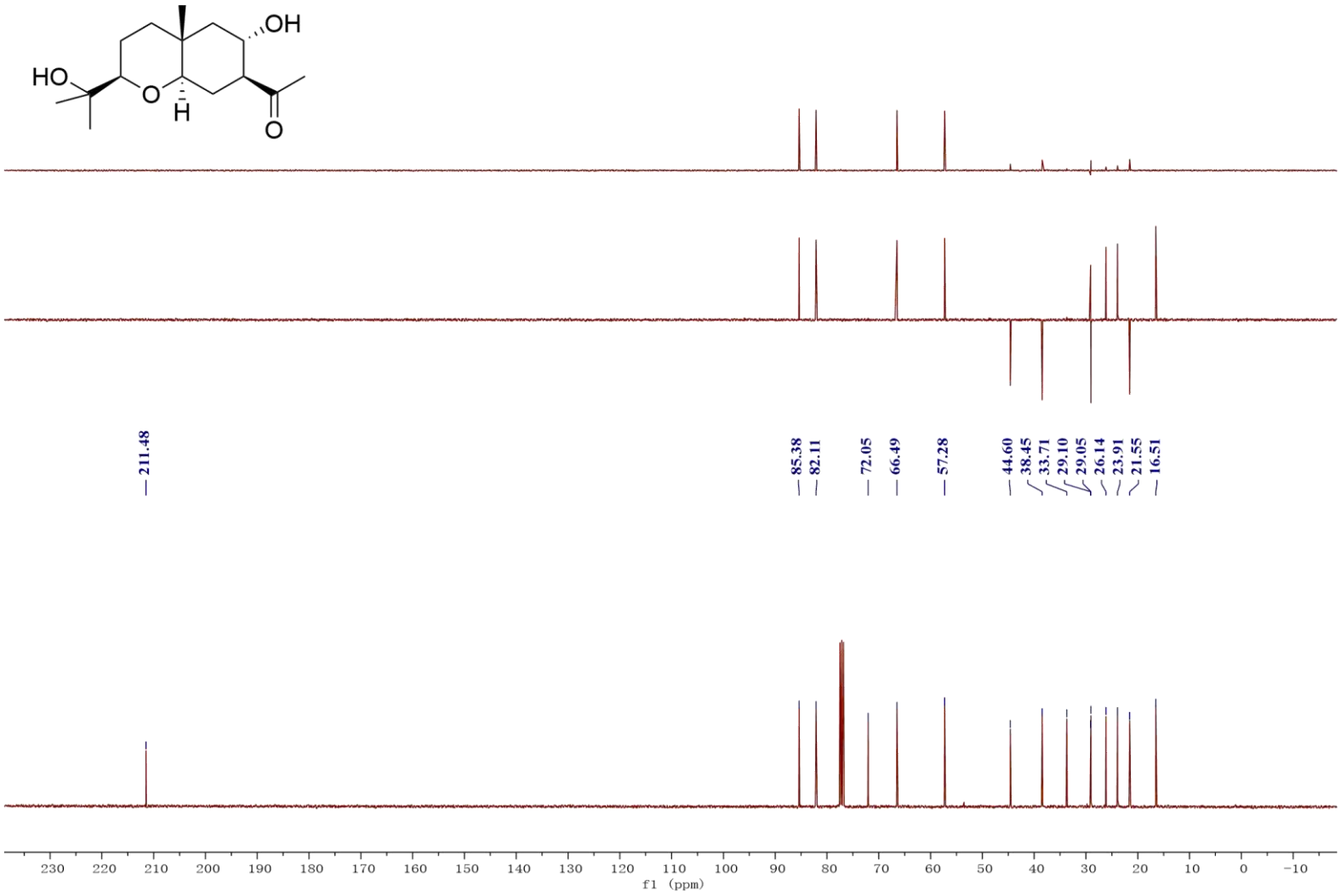

Fig. S30. ^{13}C and DEPT spectra ($CDCl_3$, 100 MHz) of **5**

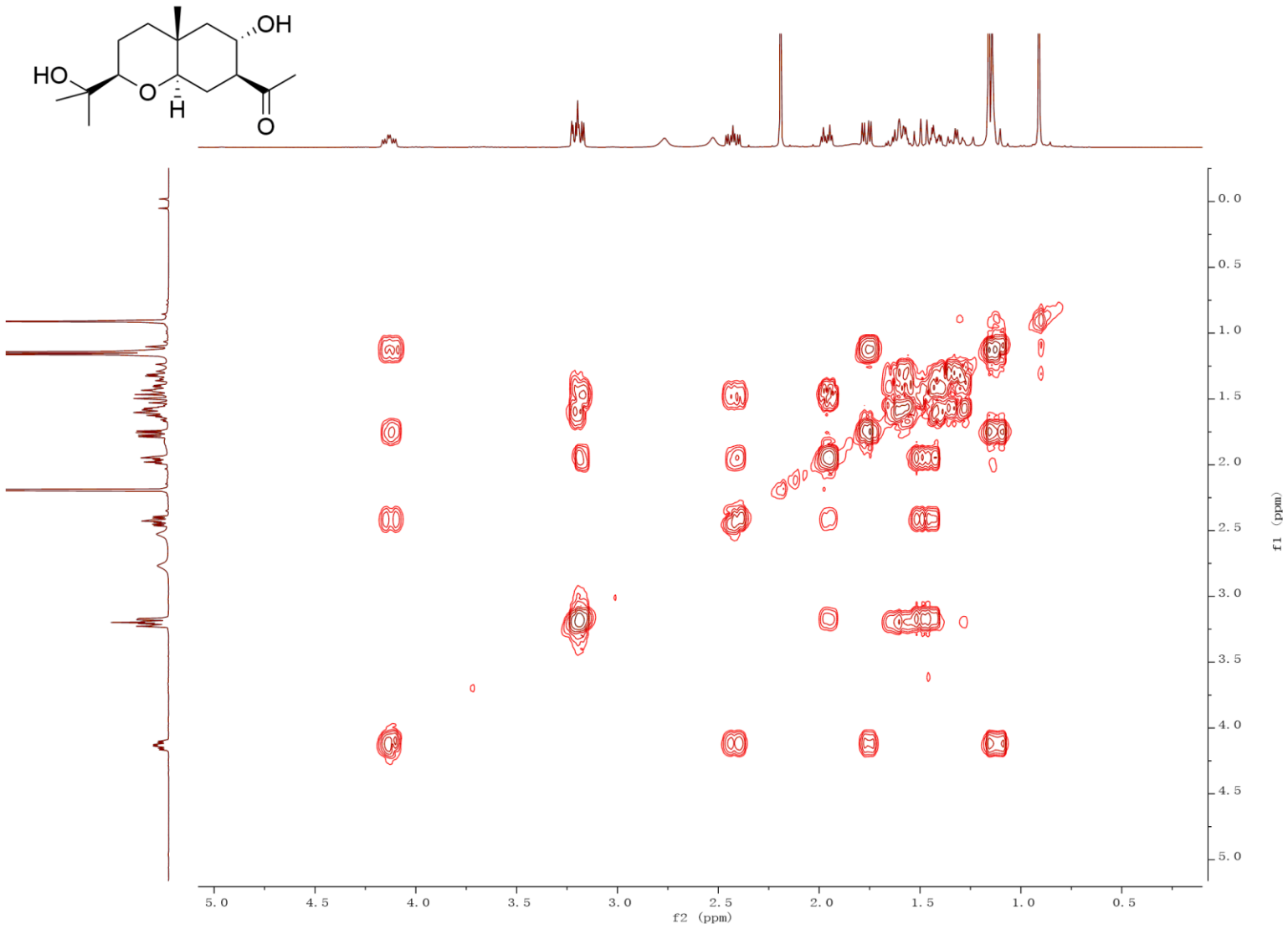

Fig. S31. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 400 MHz) of **5**

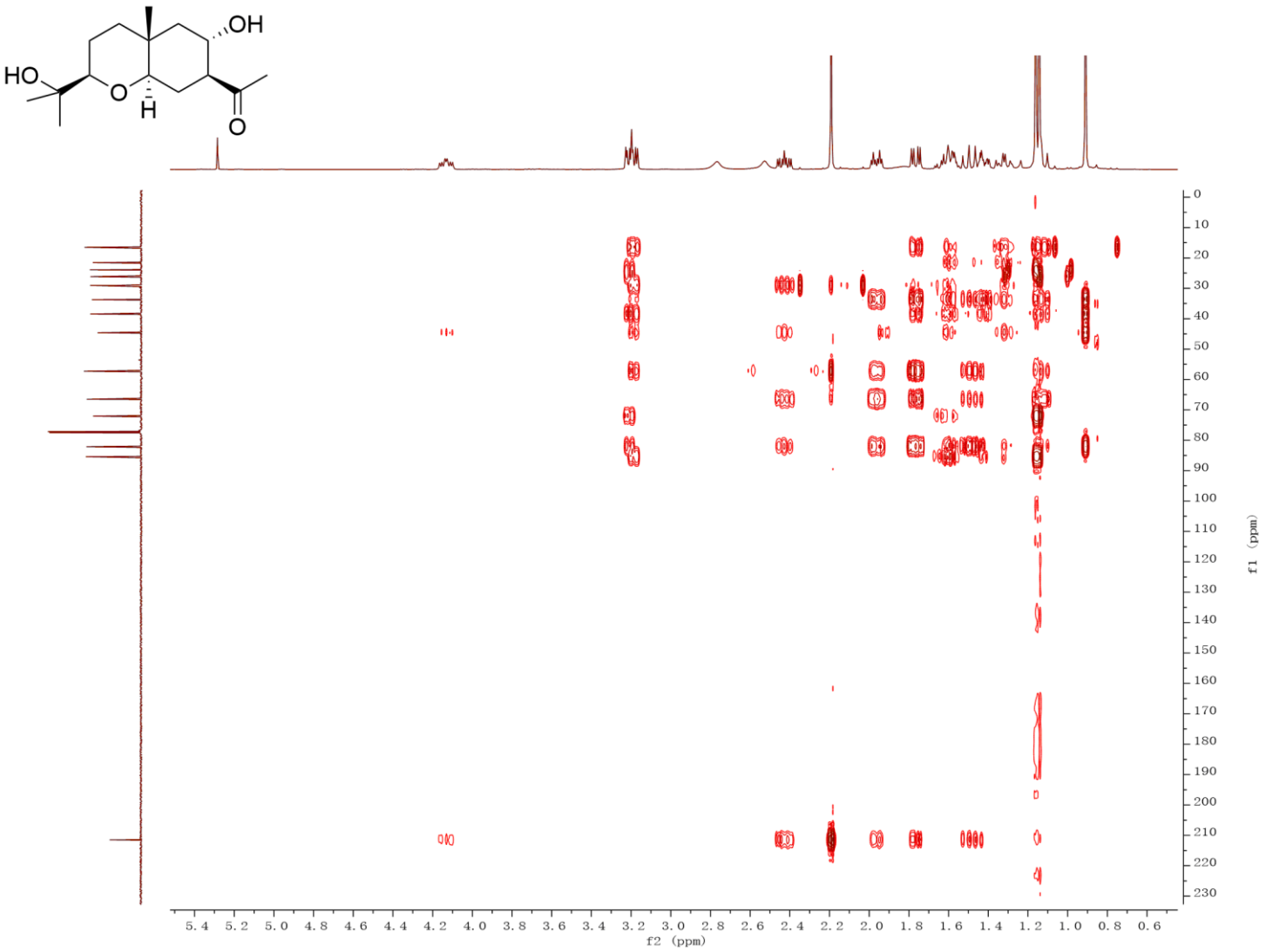

Fig. S32. HMBC spectrum ($CDCl_3$, 400 MHz) of **5**

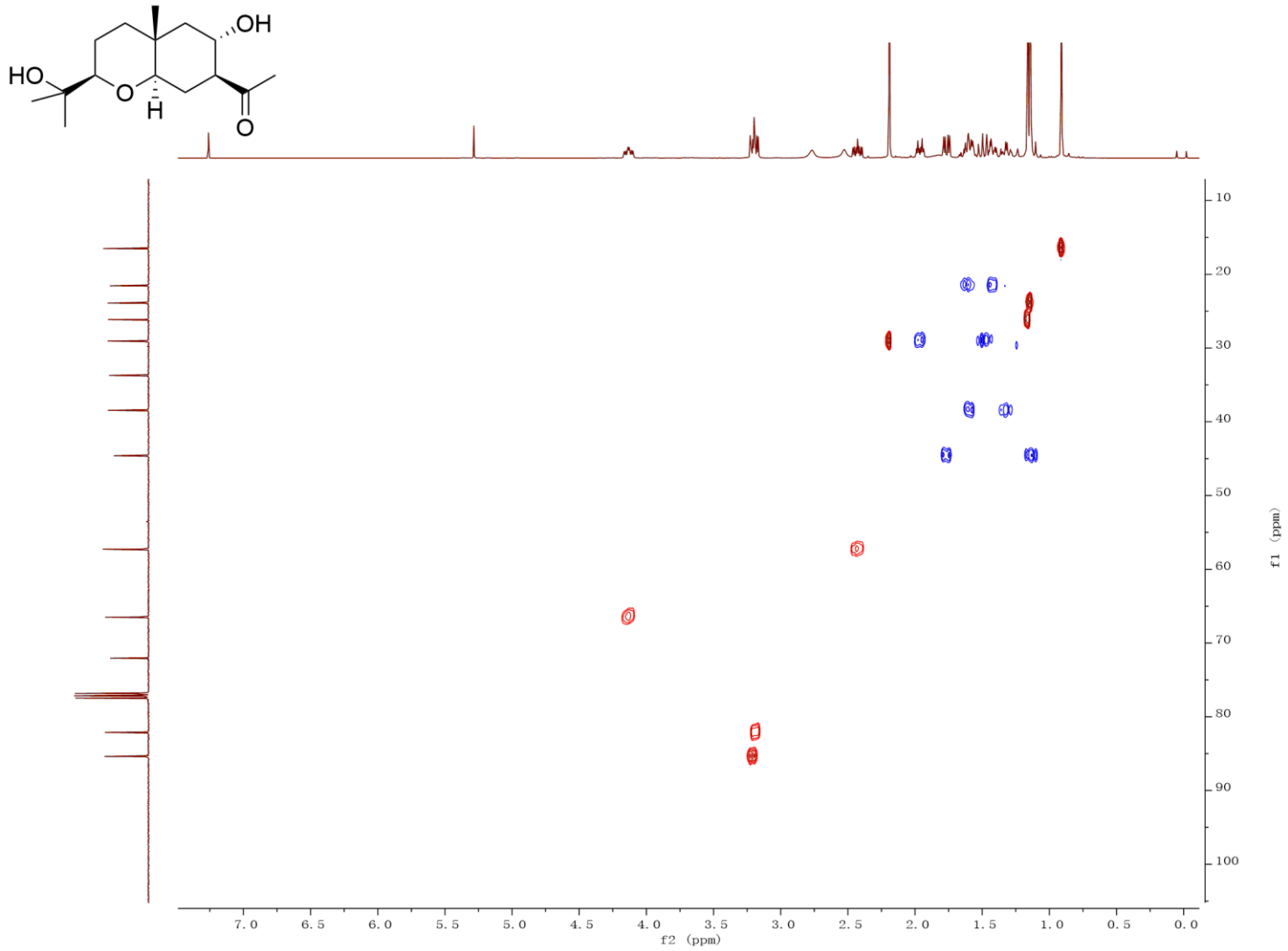

Fig. S33. HSQC spectrum ($CDCl_3$, 400 MHz) of **5**

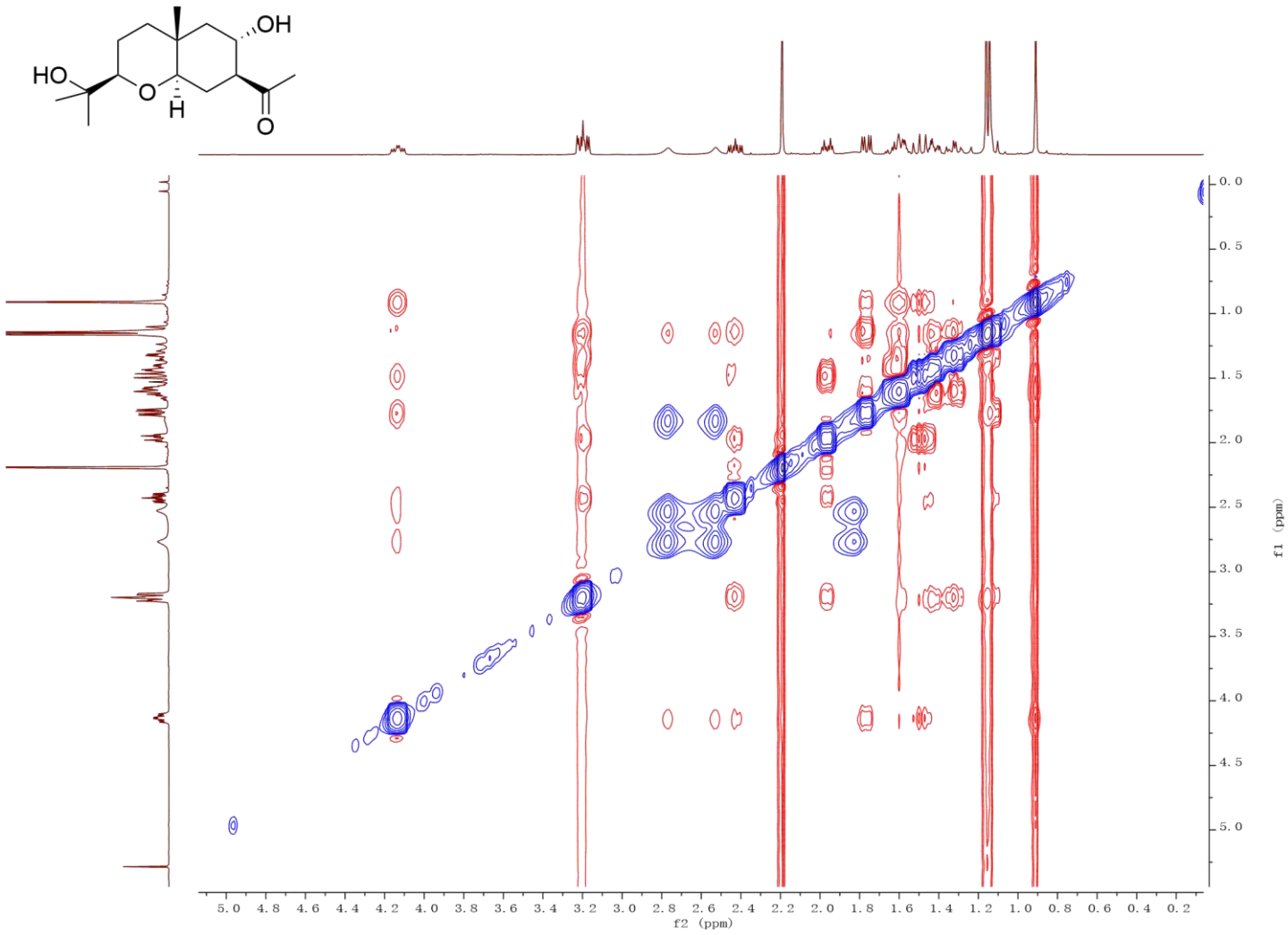

Fig. S34. NOESY spectrum ($CDCl_3$, 400 MHz) of **5**

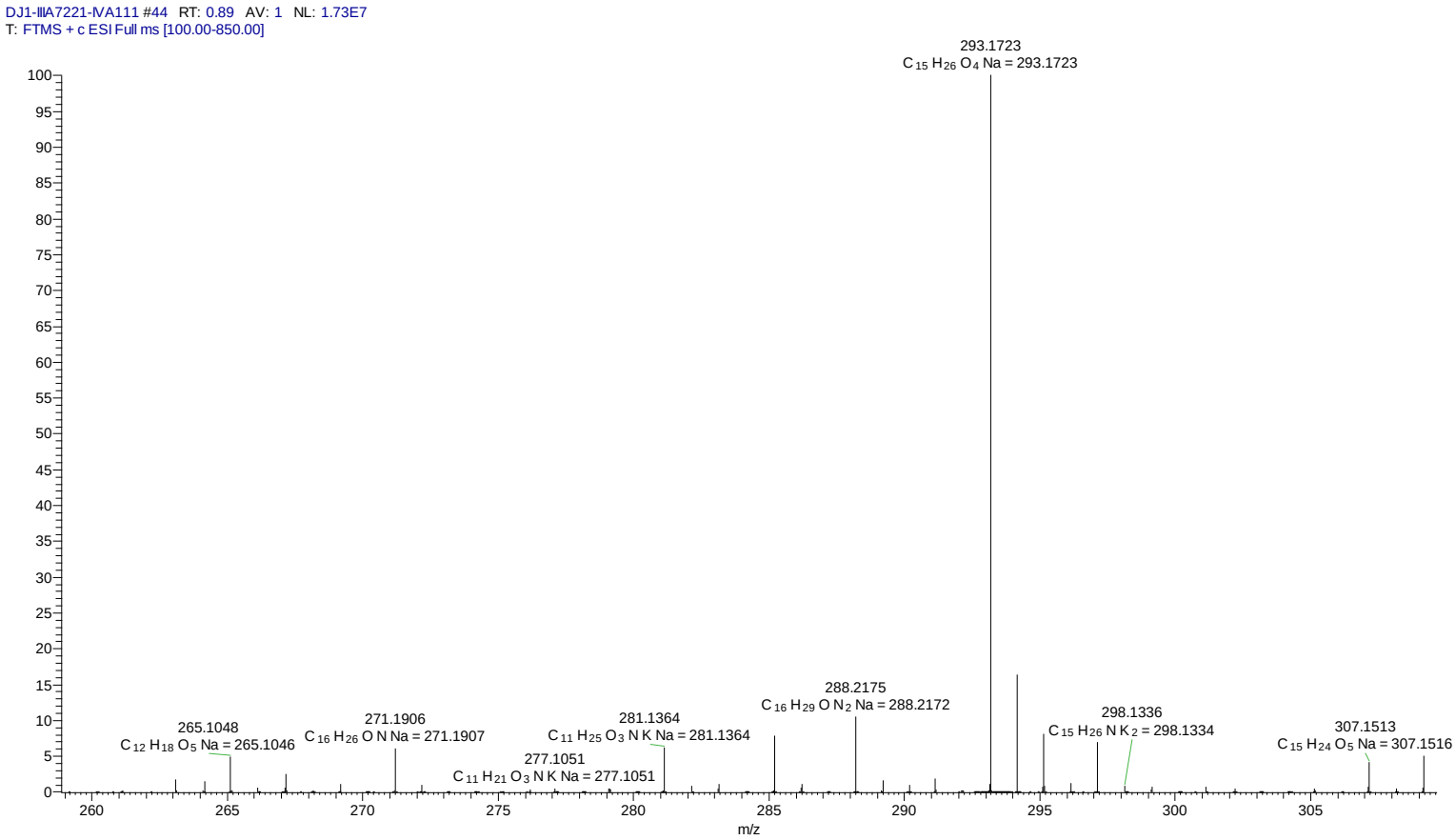

Fig. S35. (+)-HR-ESI-MS (positive mode) of **5**

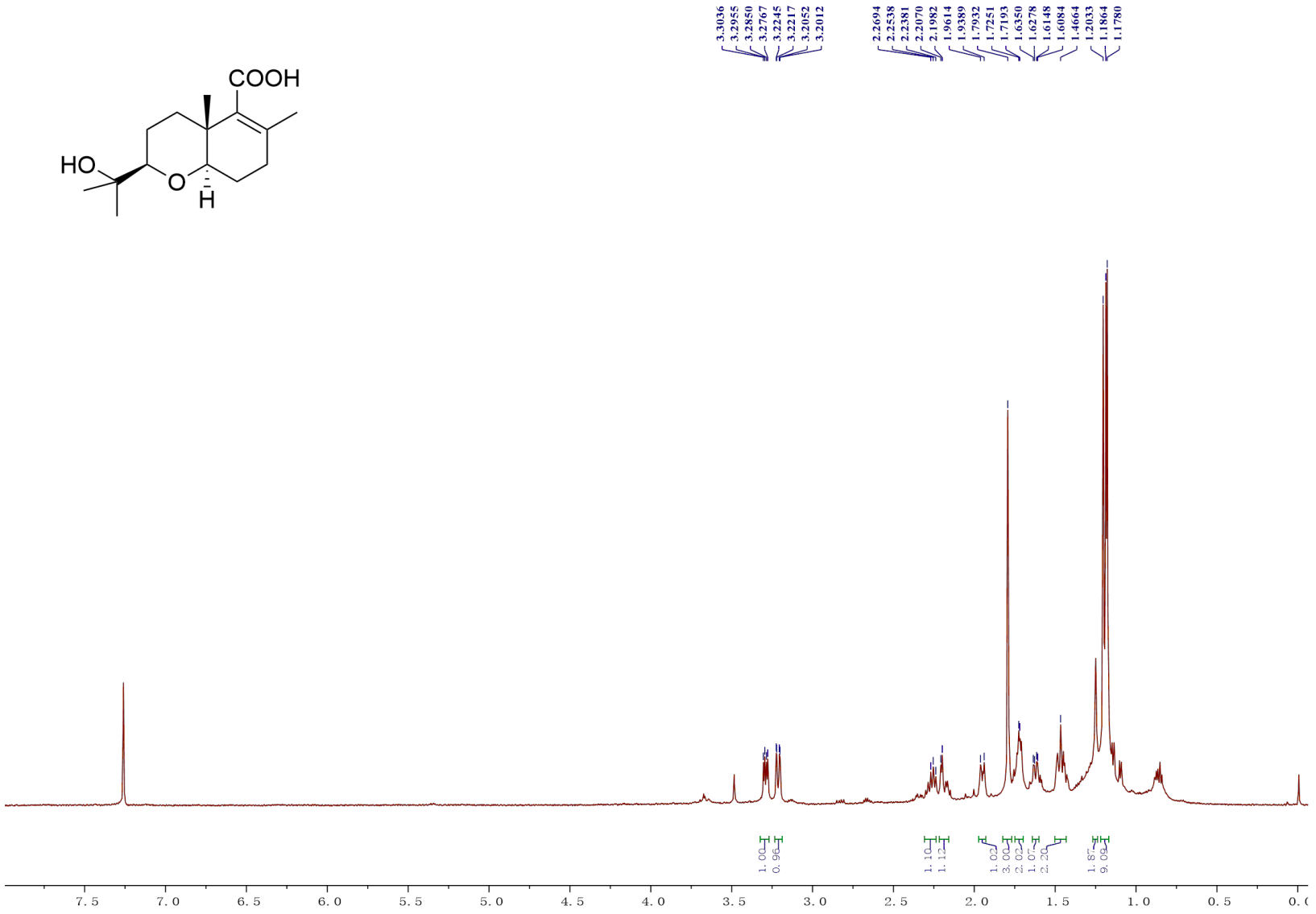

Fig. S36. ^{1}H NMR spectrum ($CDCl_3$, 400 MHz) of **6**

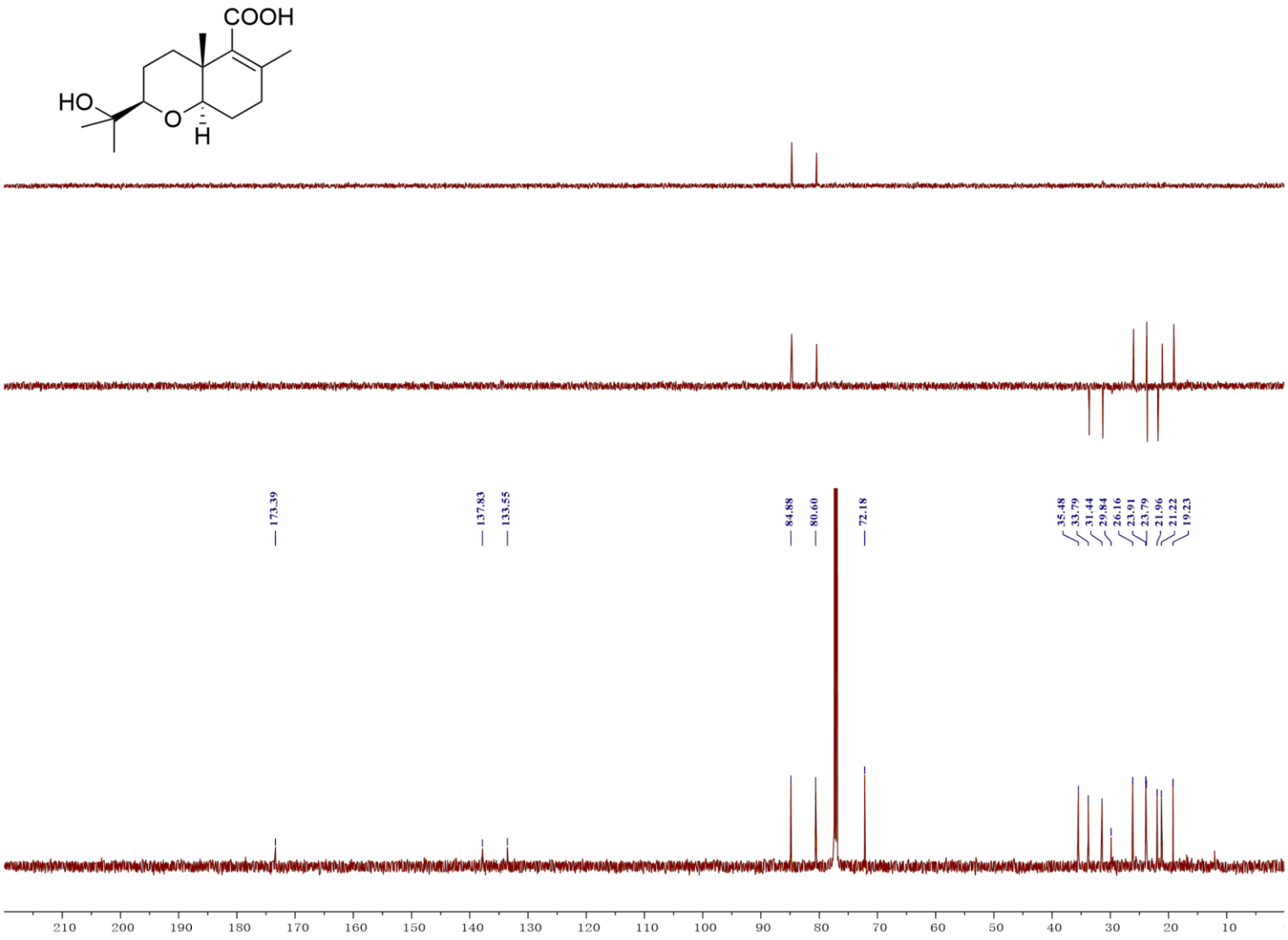

Fig. S37. ^{13}C and DEPT spectra ($CDCl_3$, 100 MHz) of **6**

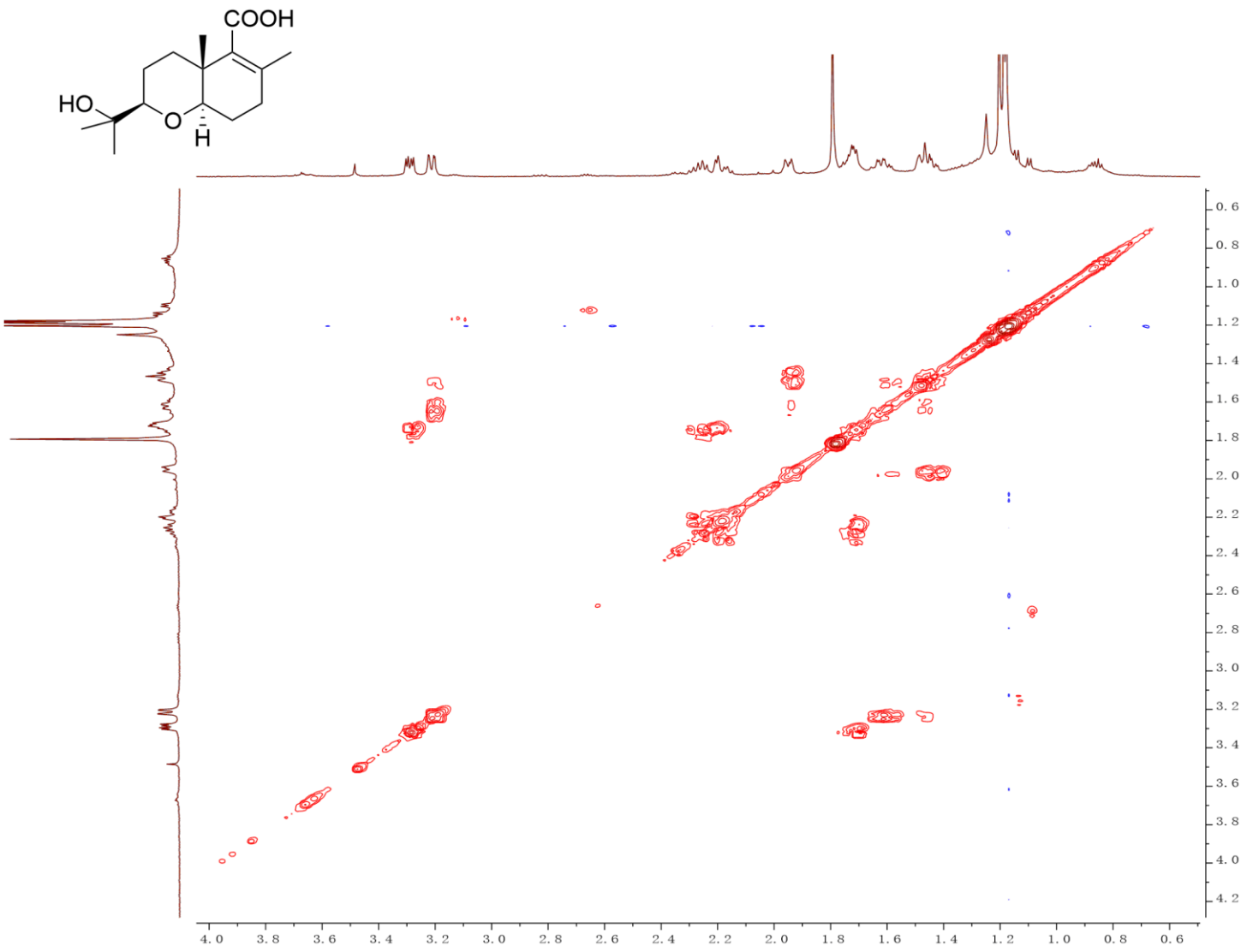

Fig. S38. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 400 MHz) of **6**

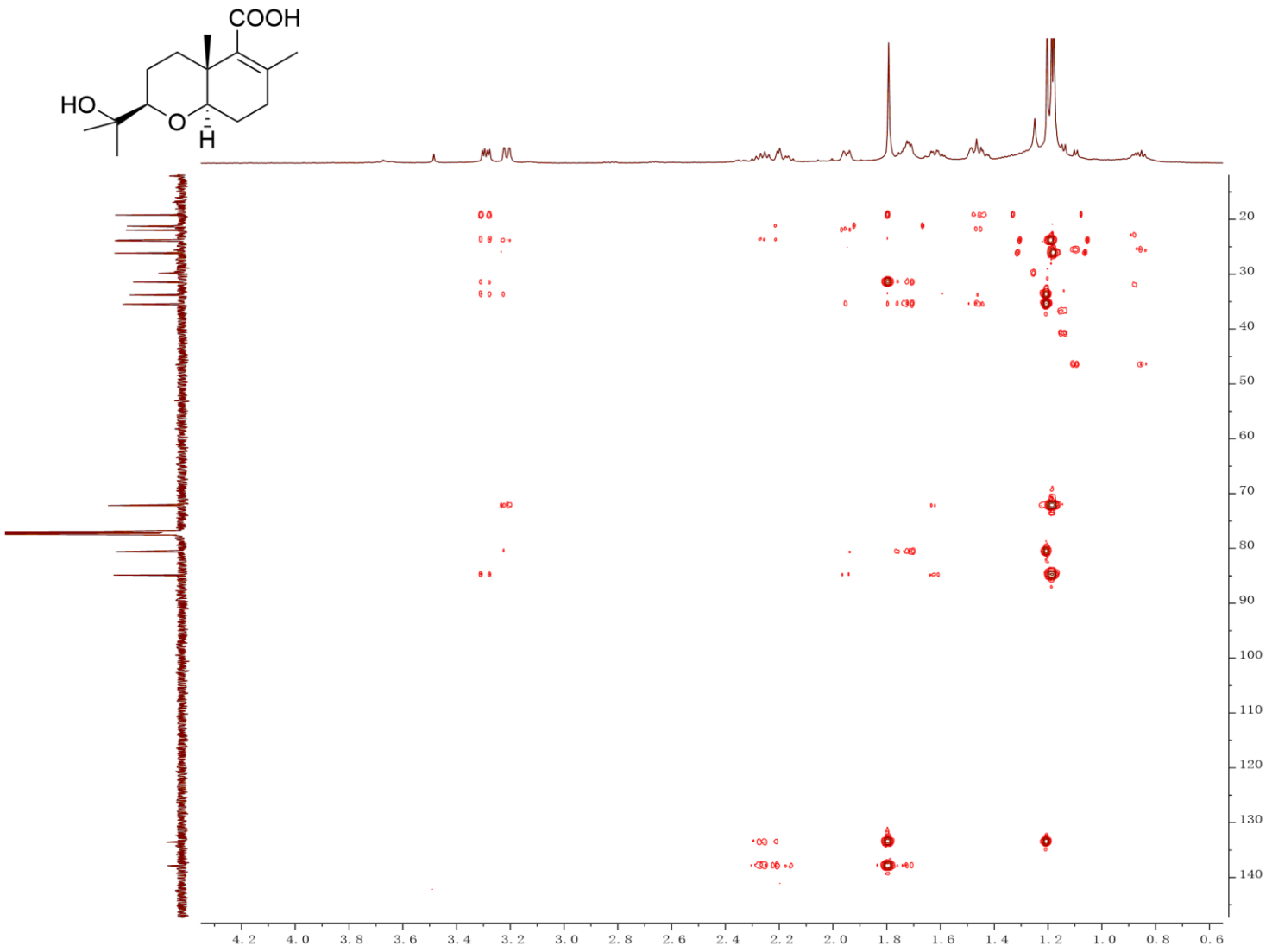

Fig. S39. HMBC spectrum ($CDCl_3$, 400 MHz) of **6**

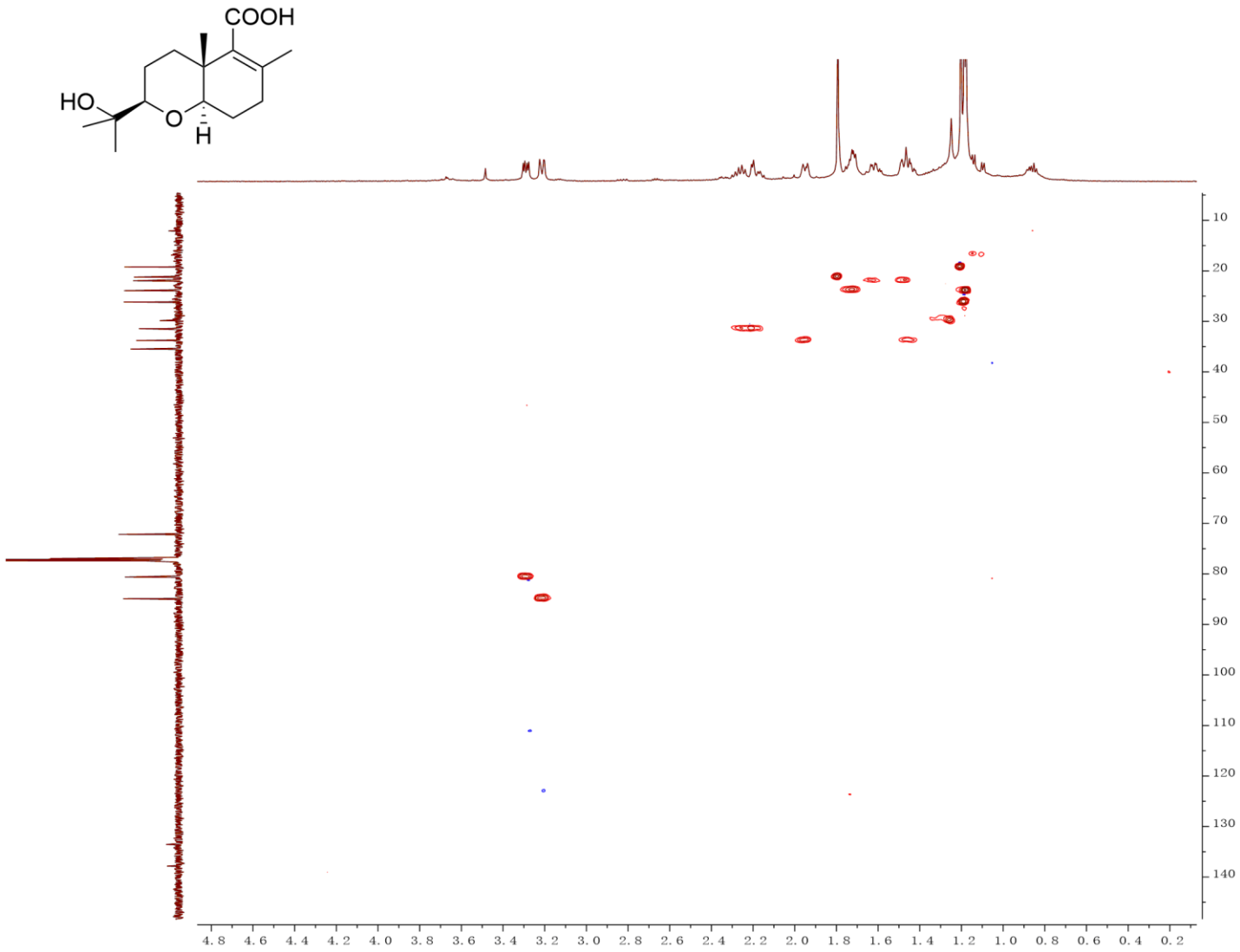

Fig. S40. HSQC spectrum ($CDCl_3$, 400 MHz) of **6**

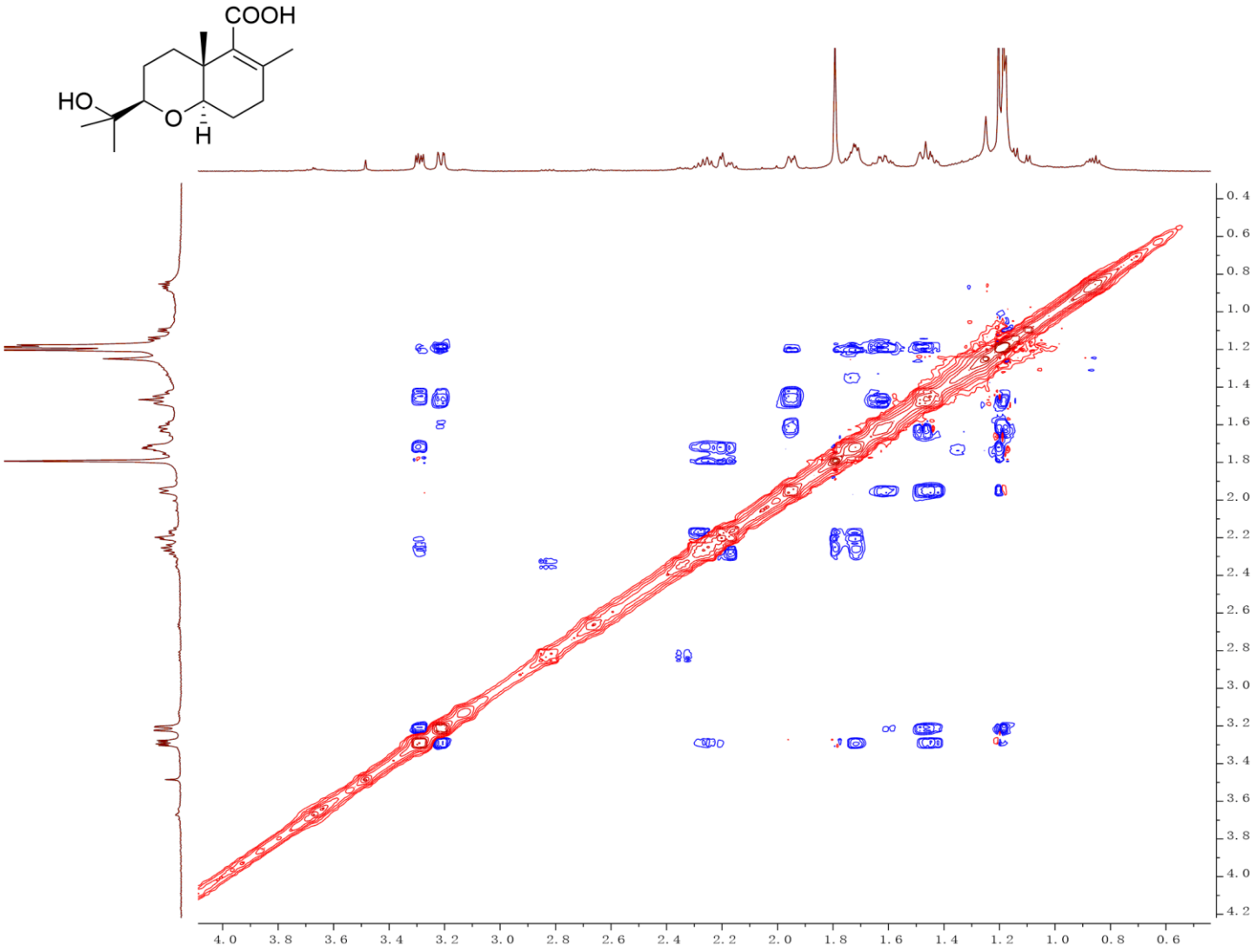

Fig. S41. NOESY spectrum ($CDCl_3$, 400 MHz) of **6**

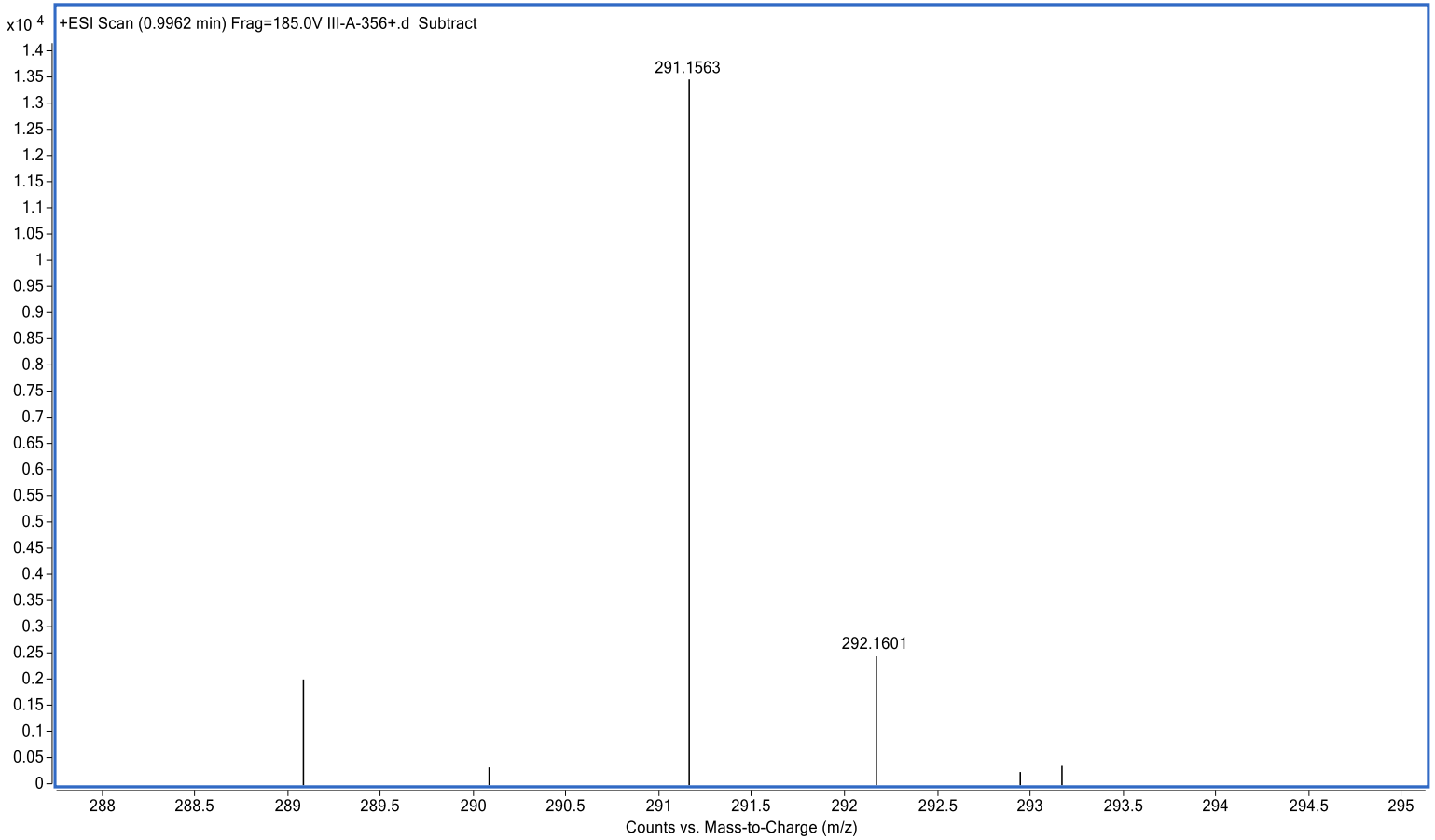

Fig. S42. (+)-HR-ESI-MS (positive mode) of **6**

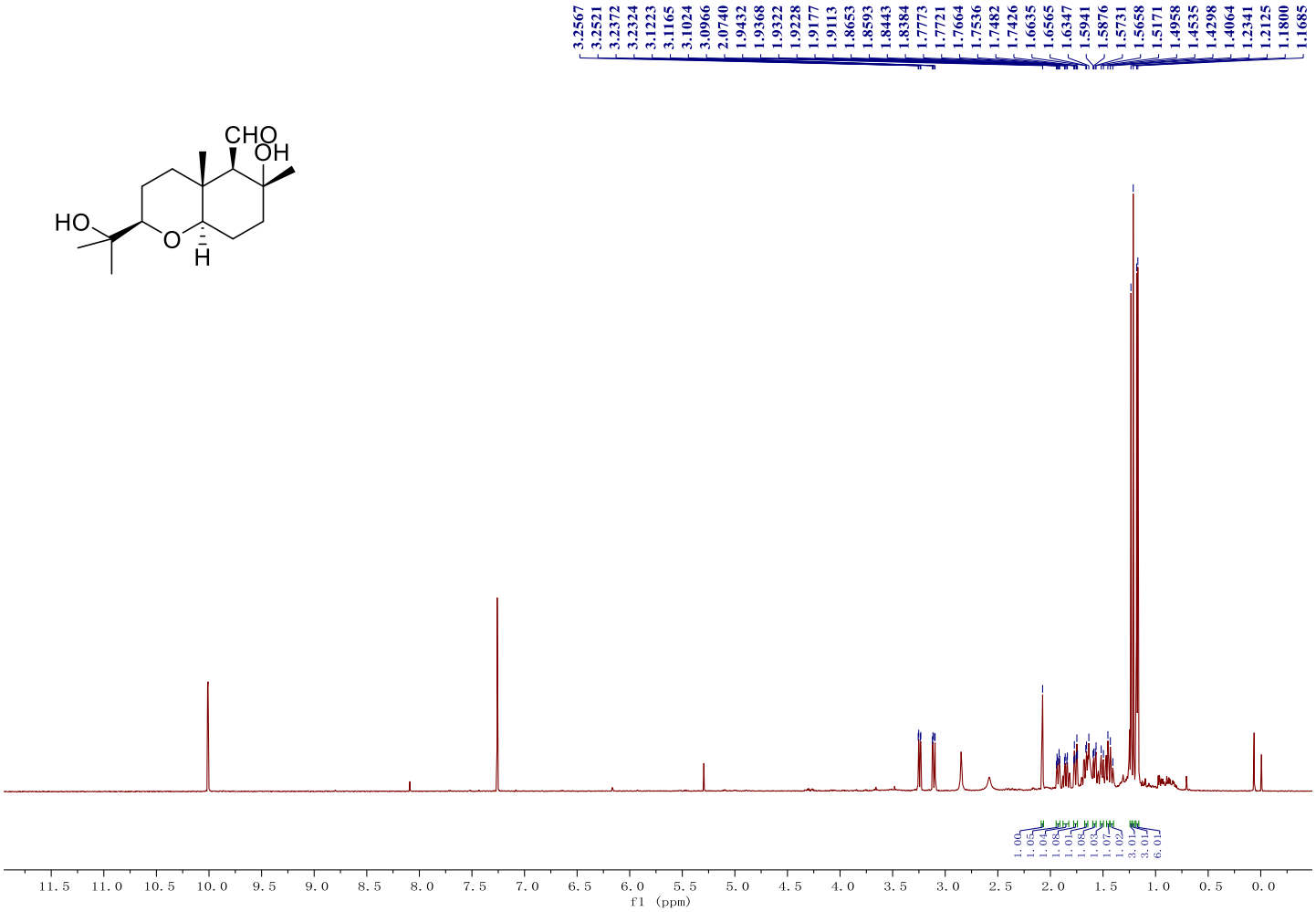

Fig. S43. ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **7**

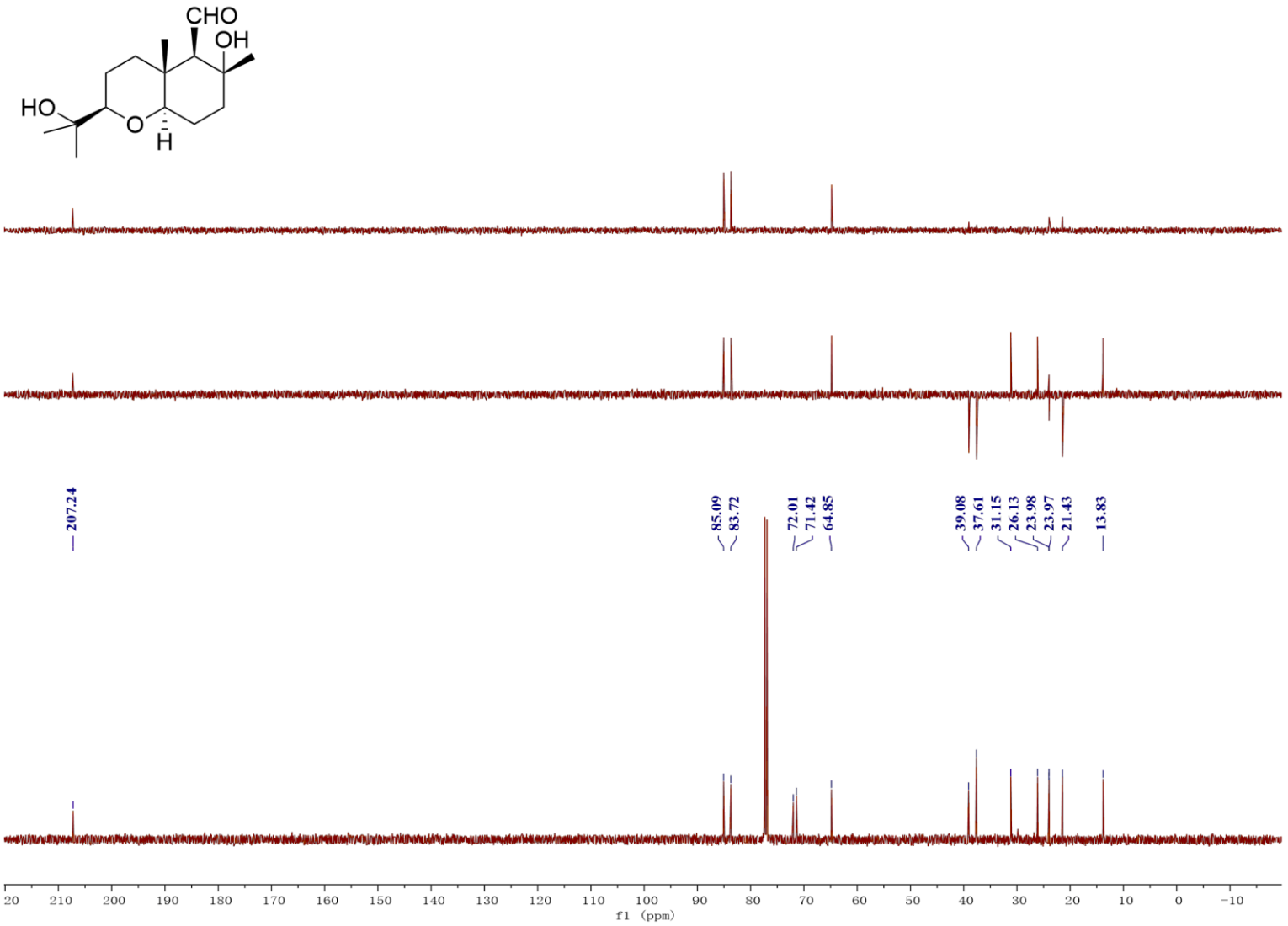

Fig. S44. ^{13}C and DEPT spectra ($CDCl_3$, 150 MHz) of **7**

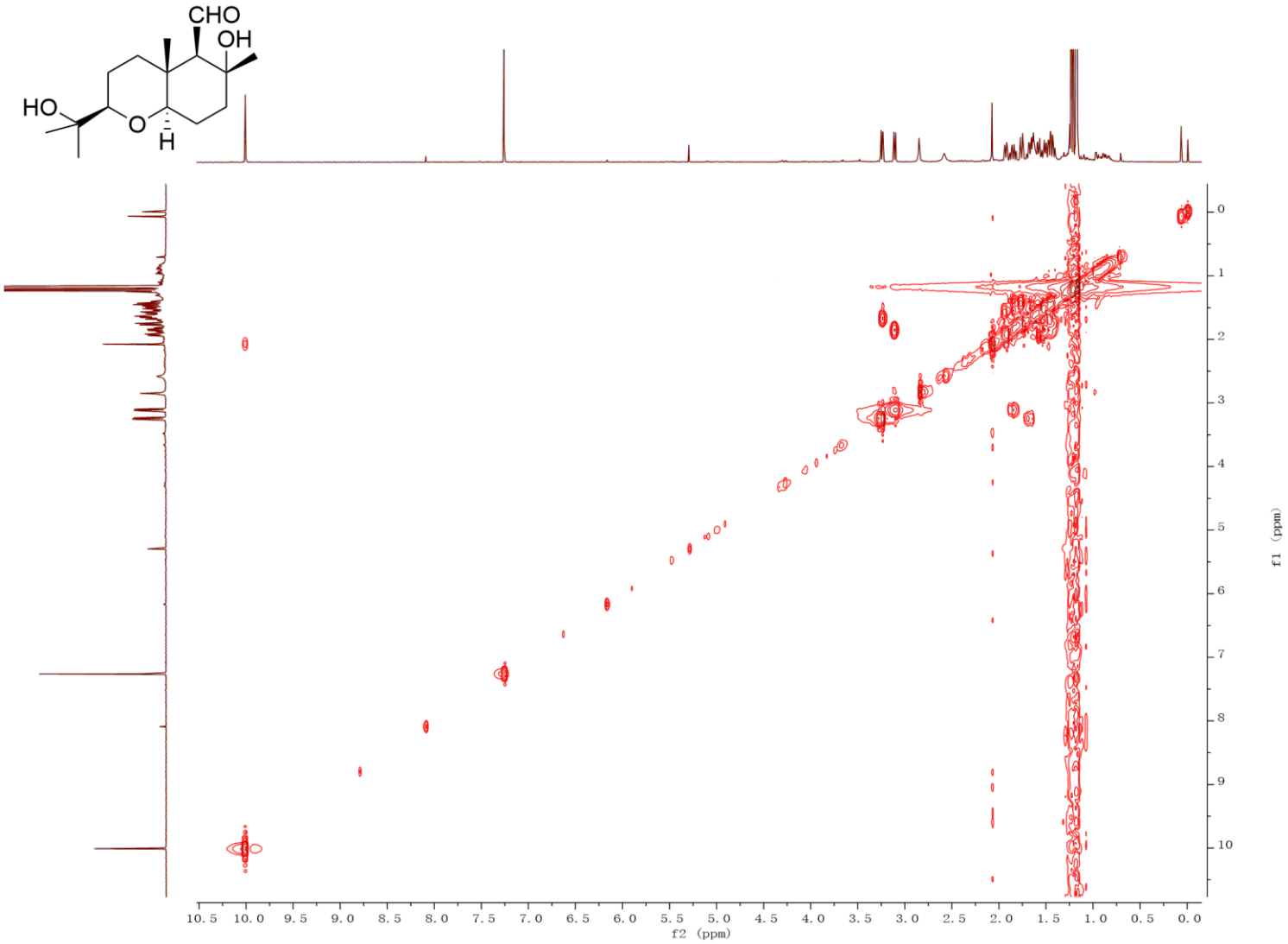

Fig. S45. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 600 MHz) of **7**

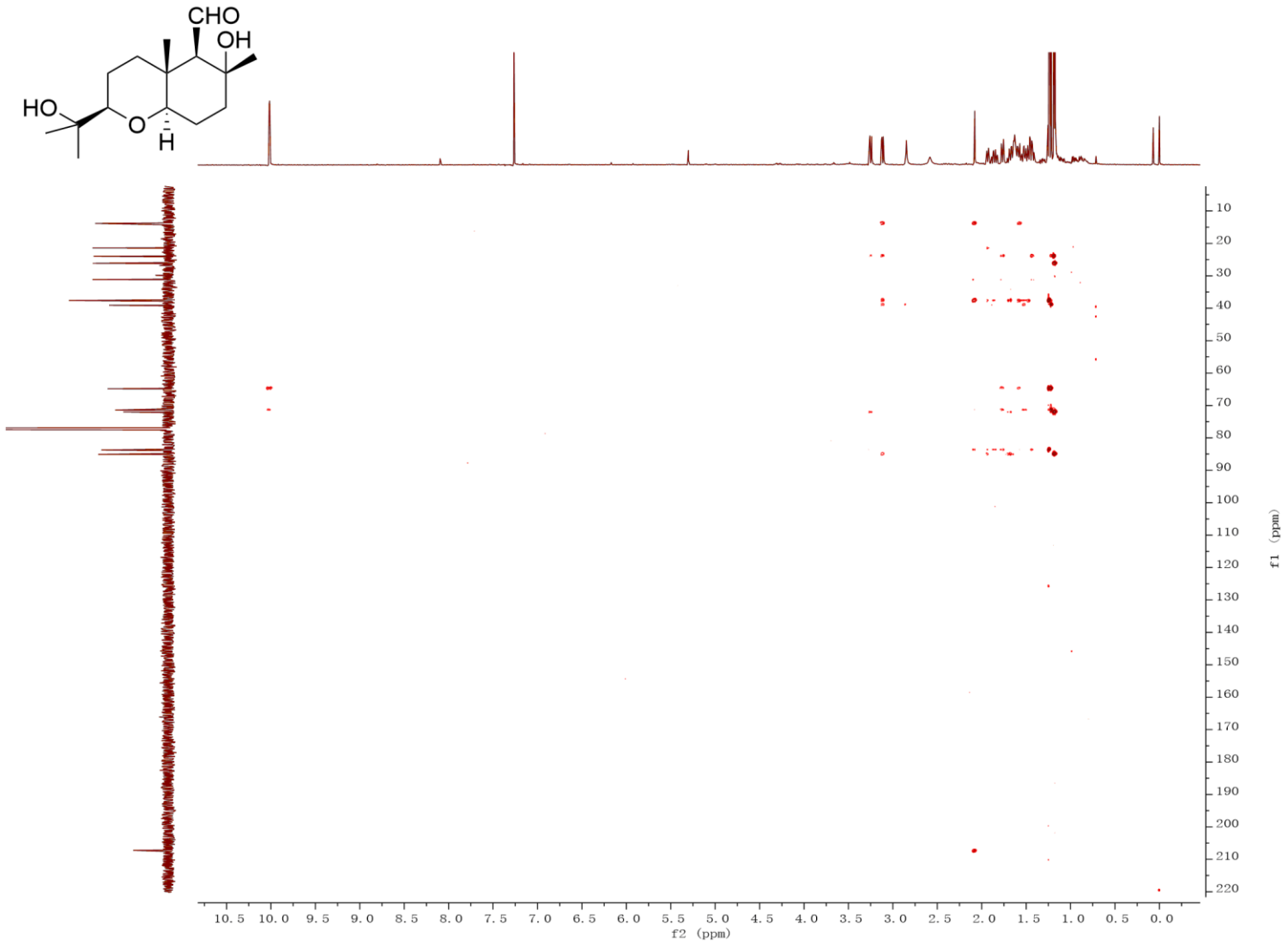

Fig. S46. HMBC spectrum ($CDCl_3$, 600 MHz) of **7**

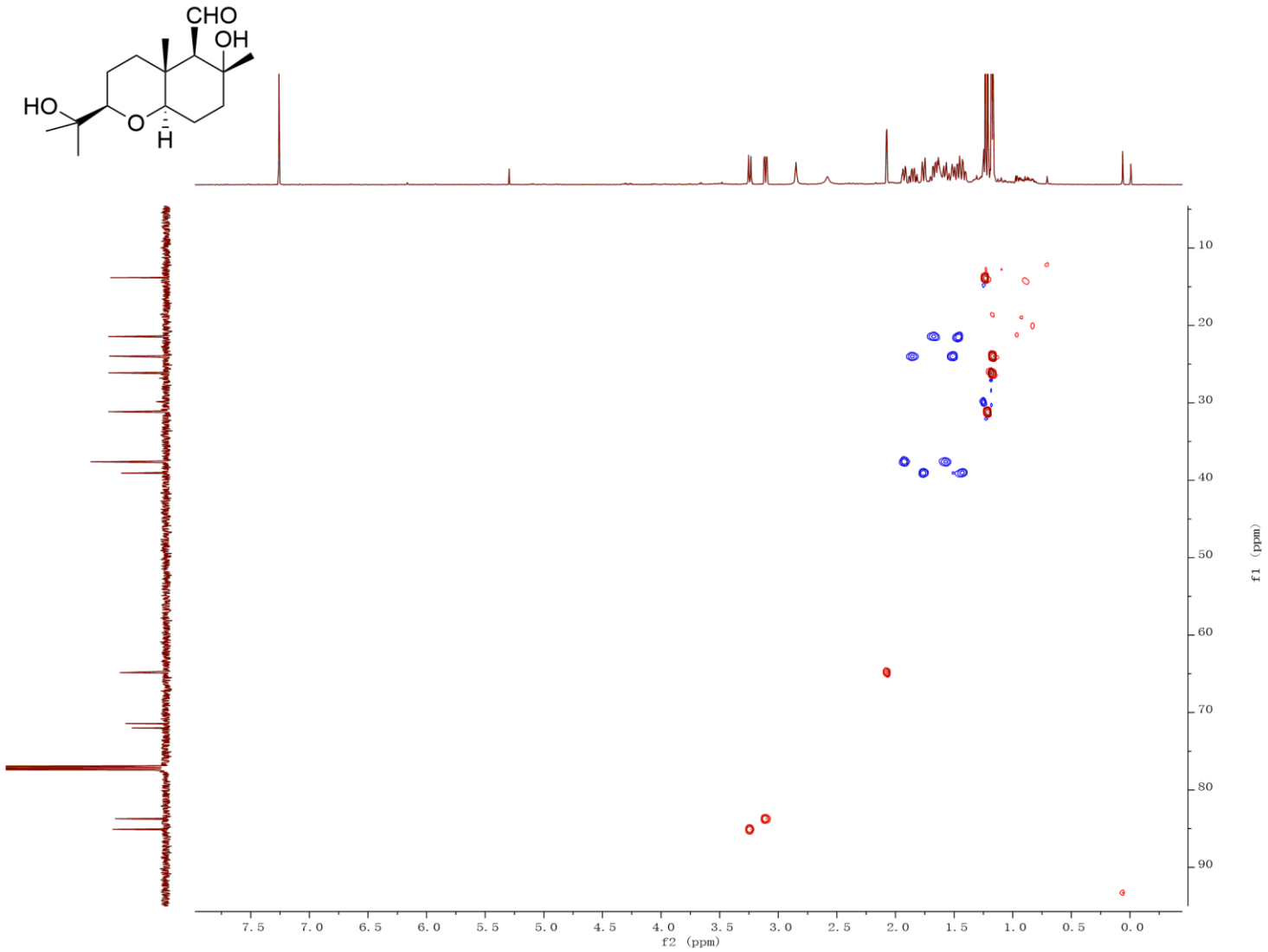

Fig. S47. HSQC spectrum ($CDCl_3$, 600 MHz) of **7**

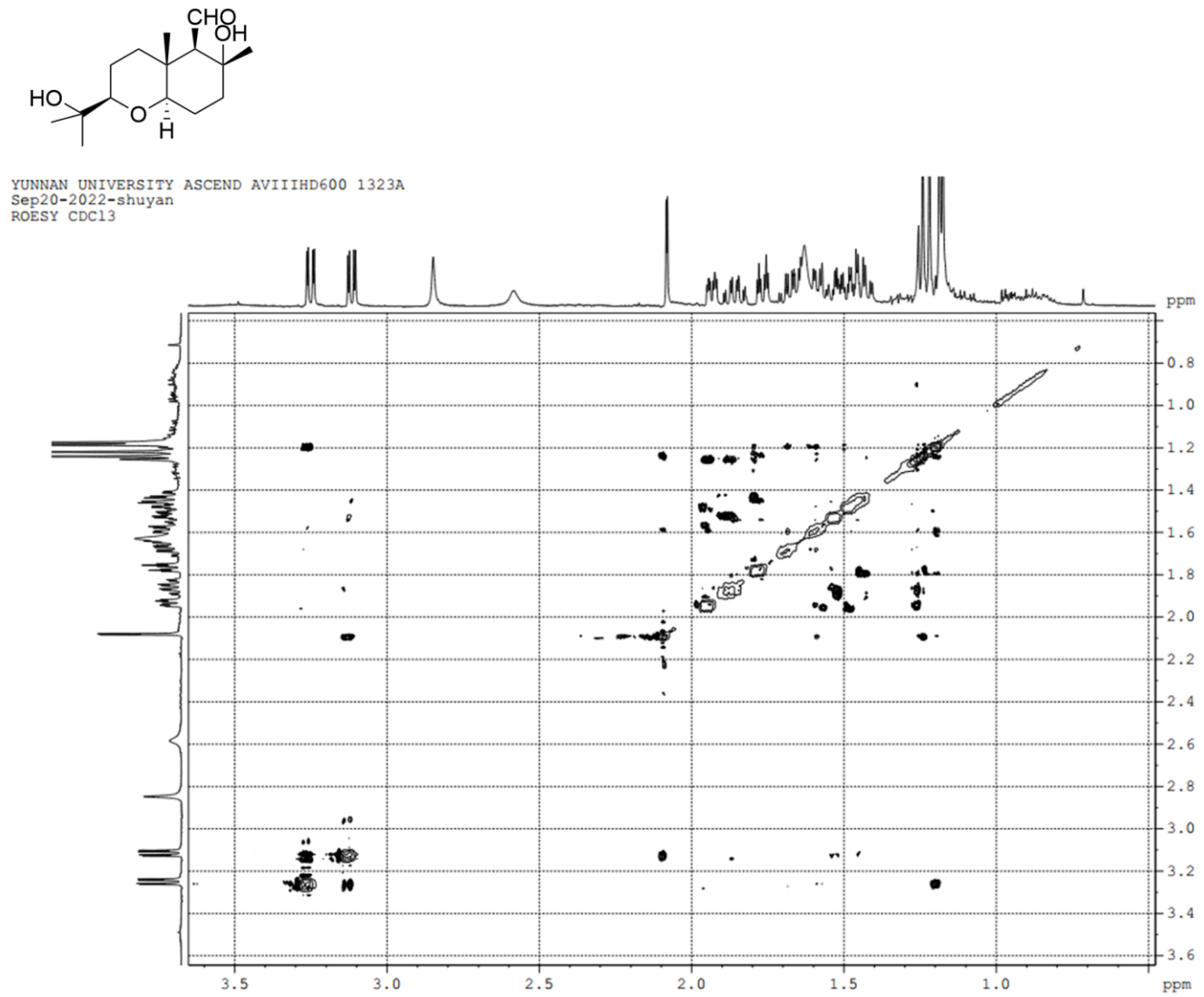

Fig. S48. ROESY spectrum ($CDCl_3$, 600 MHz) of **7**

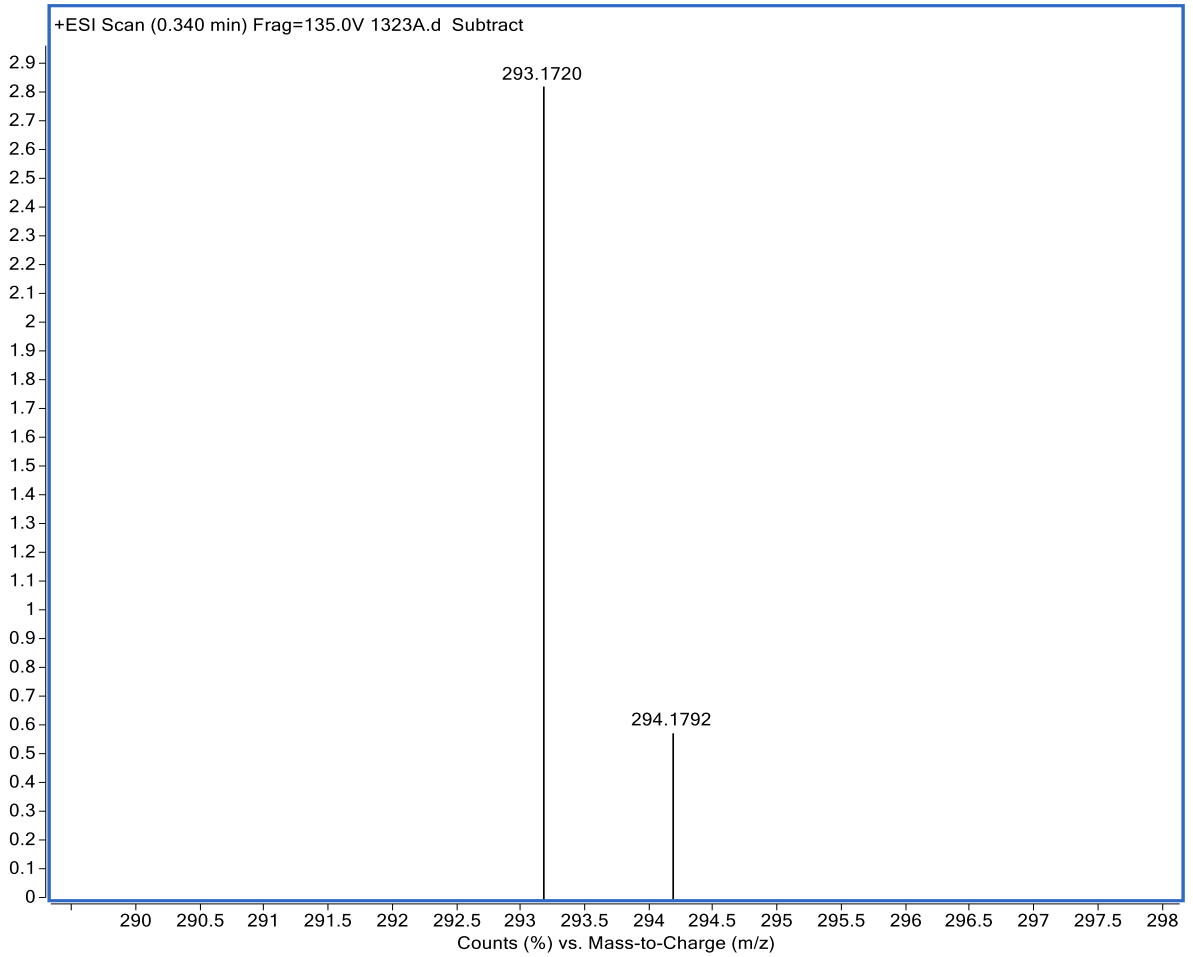

Fig. S49. (+)-HR-ESI-MS (positive mode) of **7**

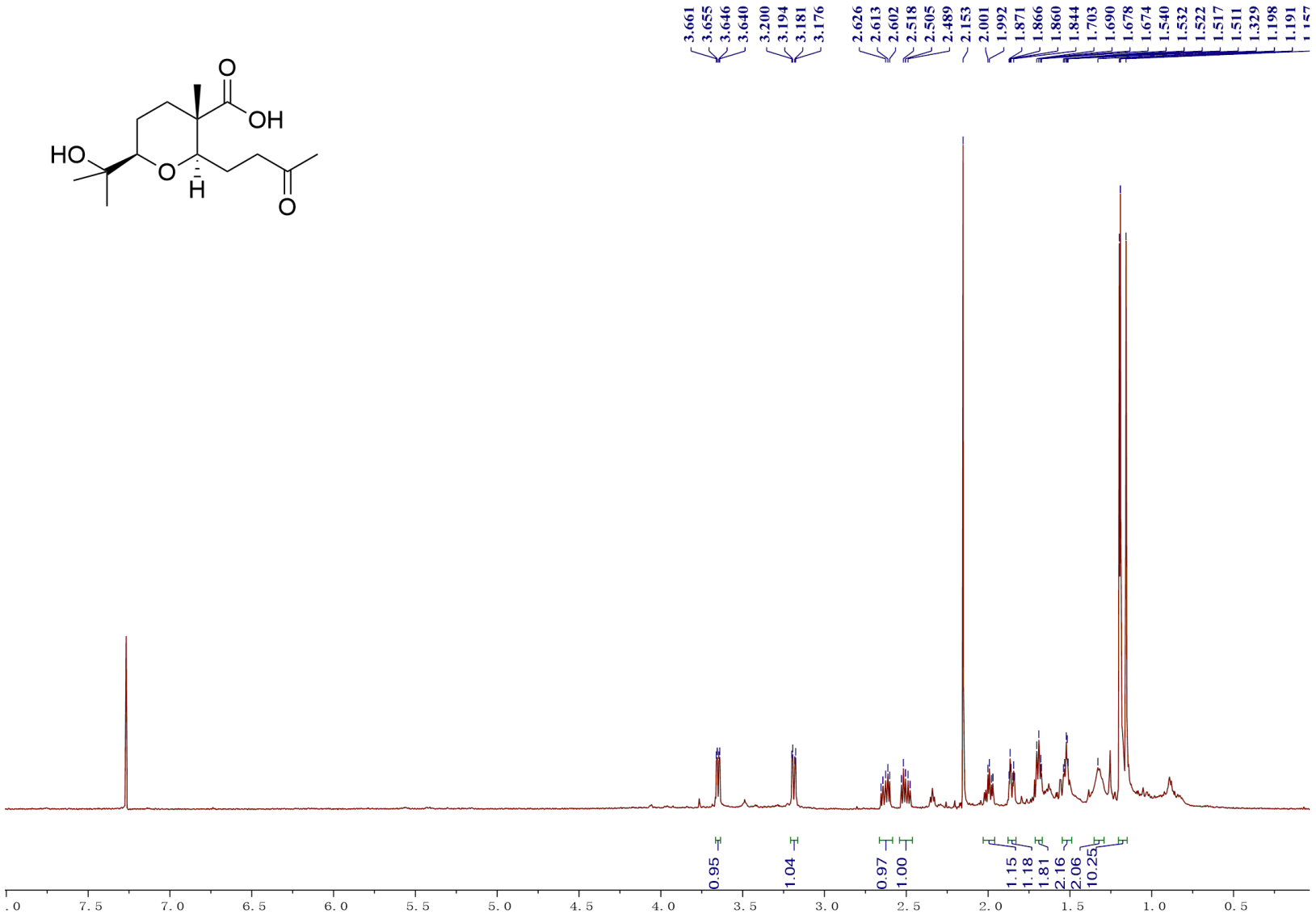

Fig. S50. ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **8**

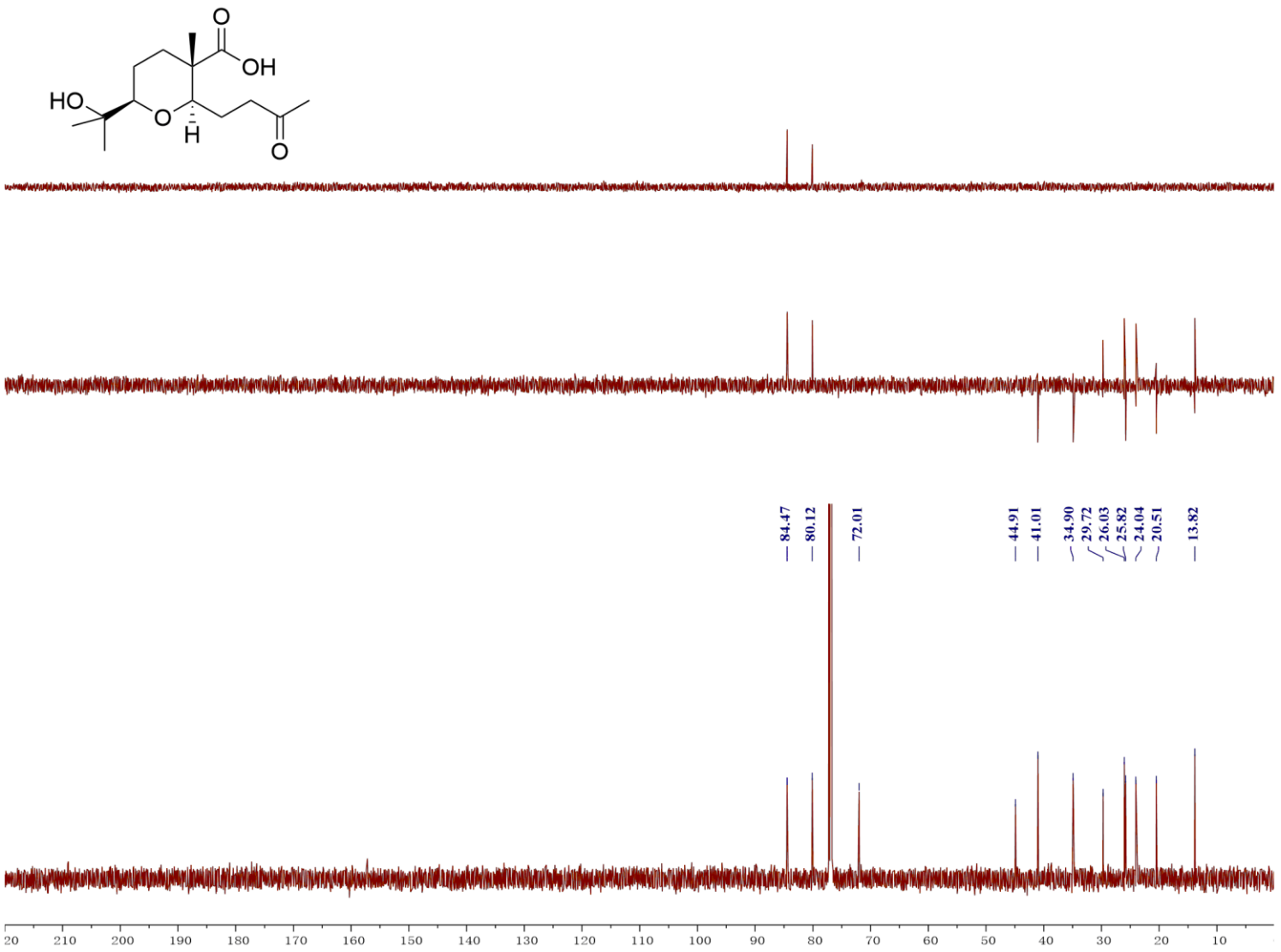

Fig. S51. ^{13}C and DEPT spectra ($CDCl_3$, 150 MHz) of **8**

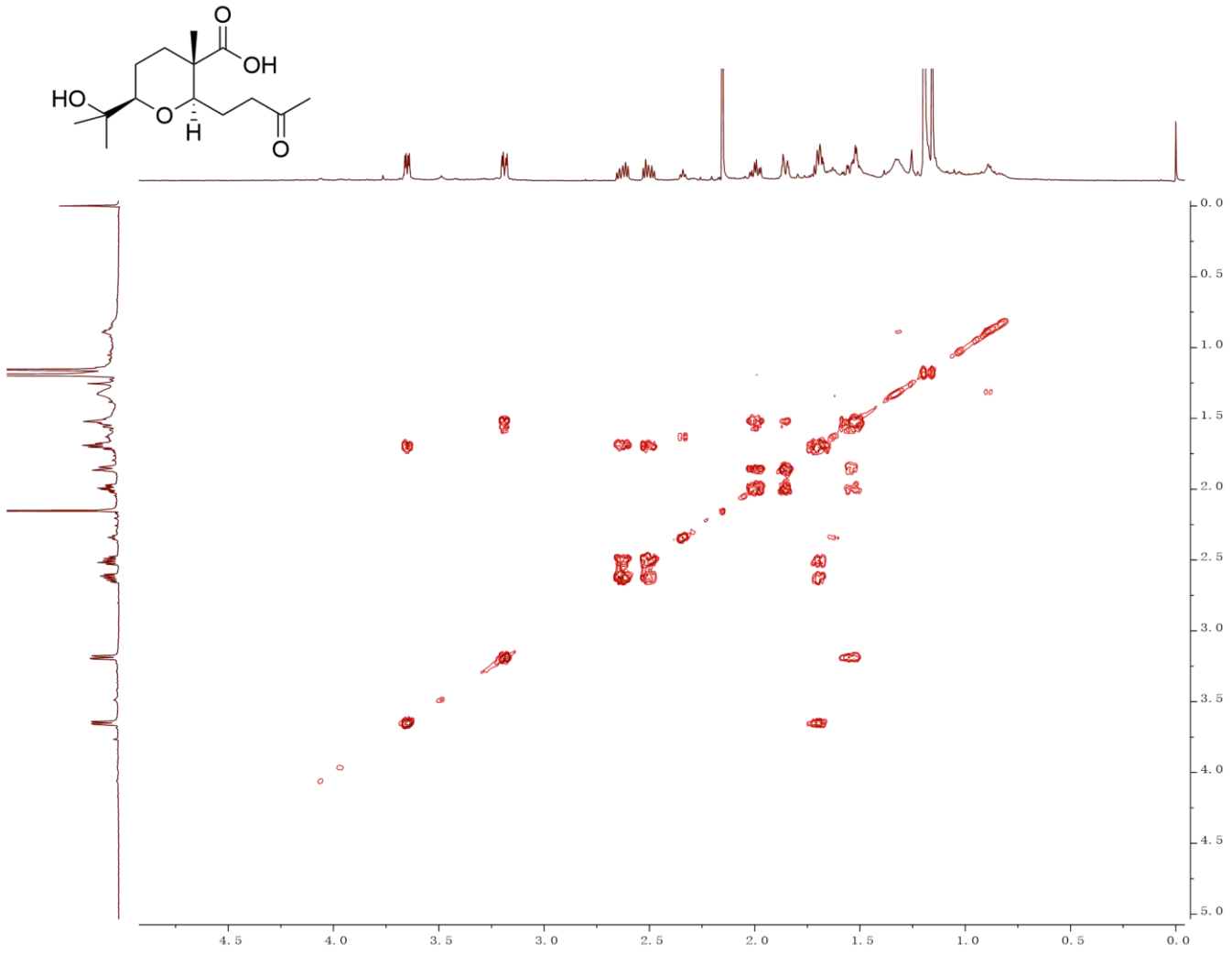

Fig. S52. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 600 MHz) of **8**

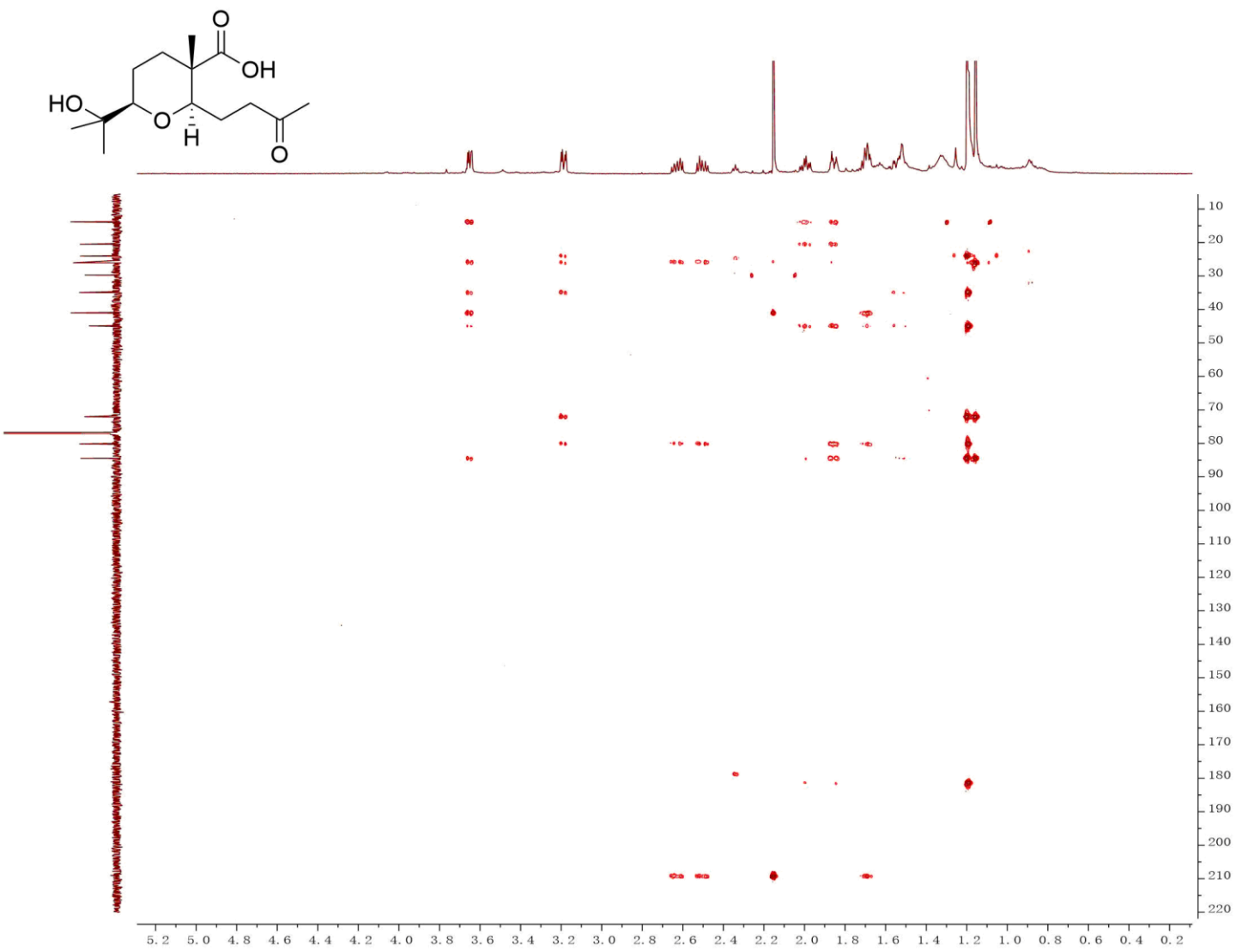

Fig. S53. HMBC spectrum ($CDCl_3$, 600 MHz) of **8**

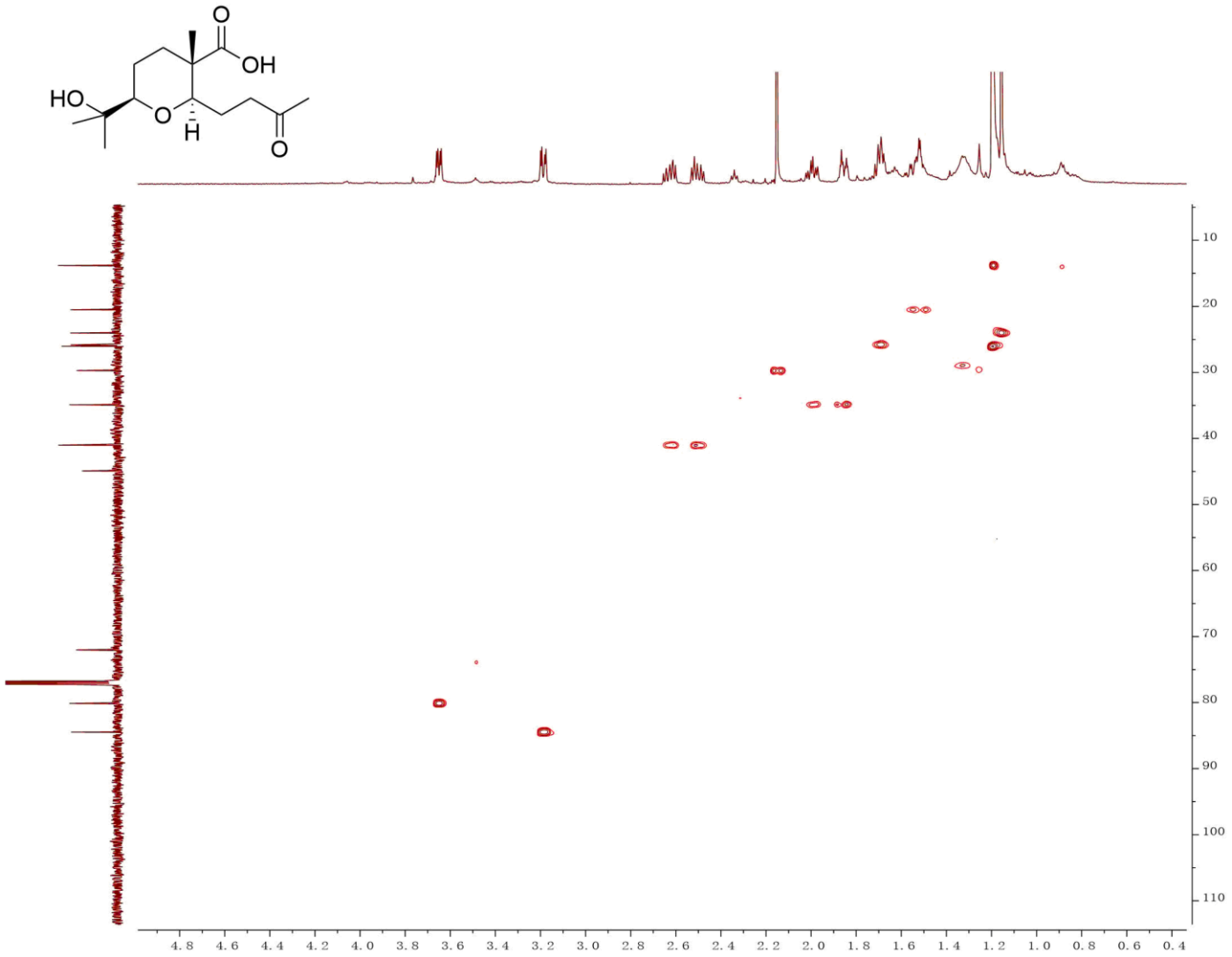

Fig. S54. HSQC spectrum ($CDCl_3$, 600 MHz) of **8**

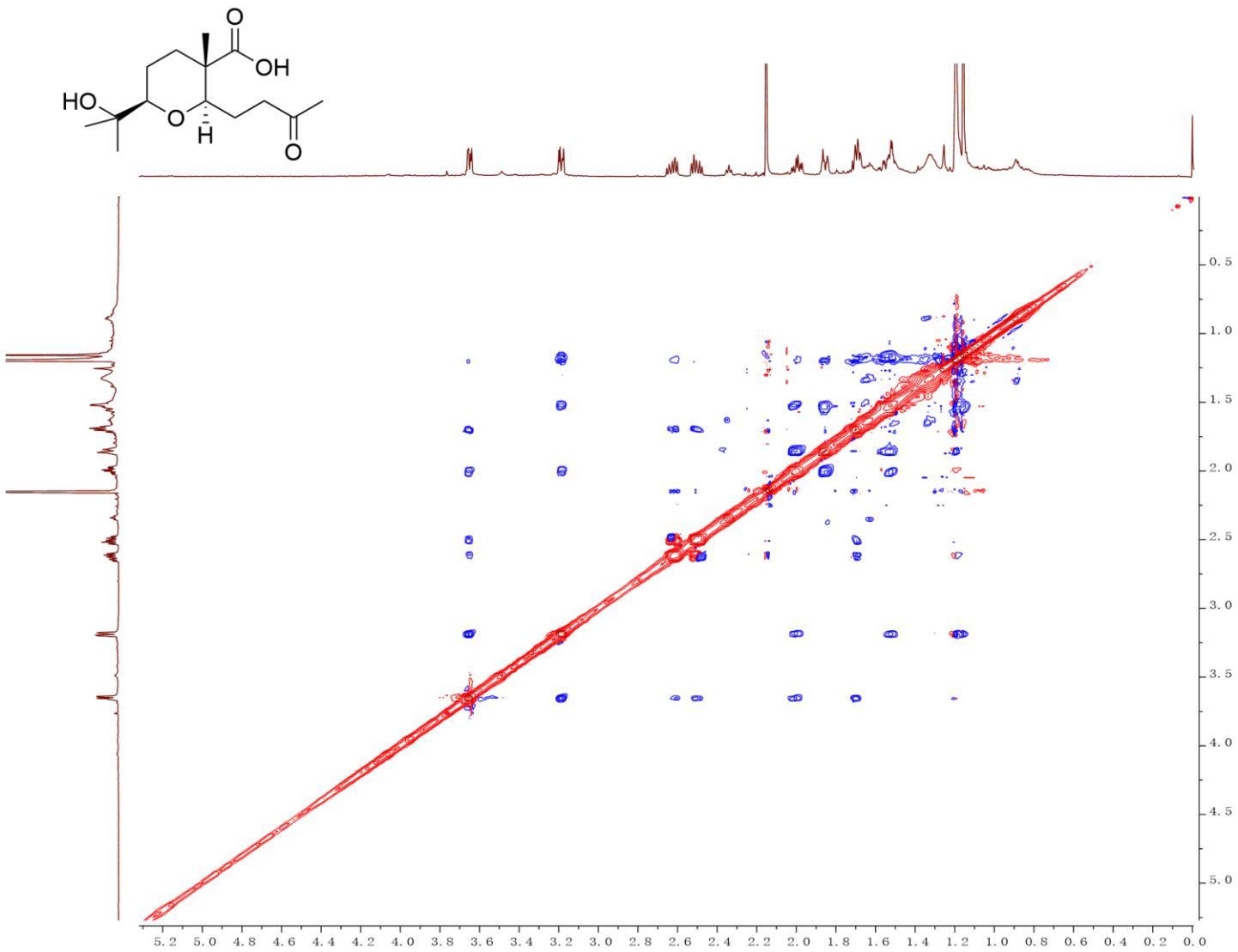

Fig. S55. NOESY spectrum ($CDCl_3$, 600 MHz) of **8**

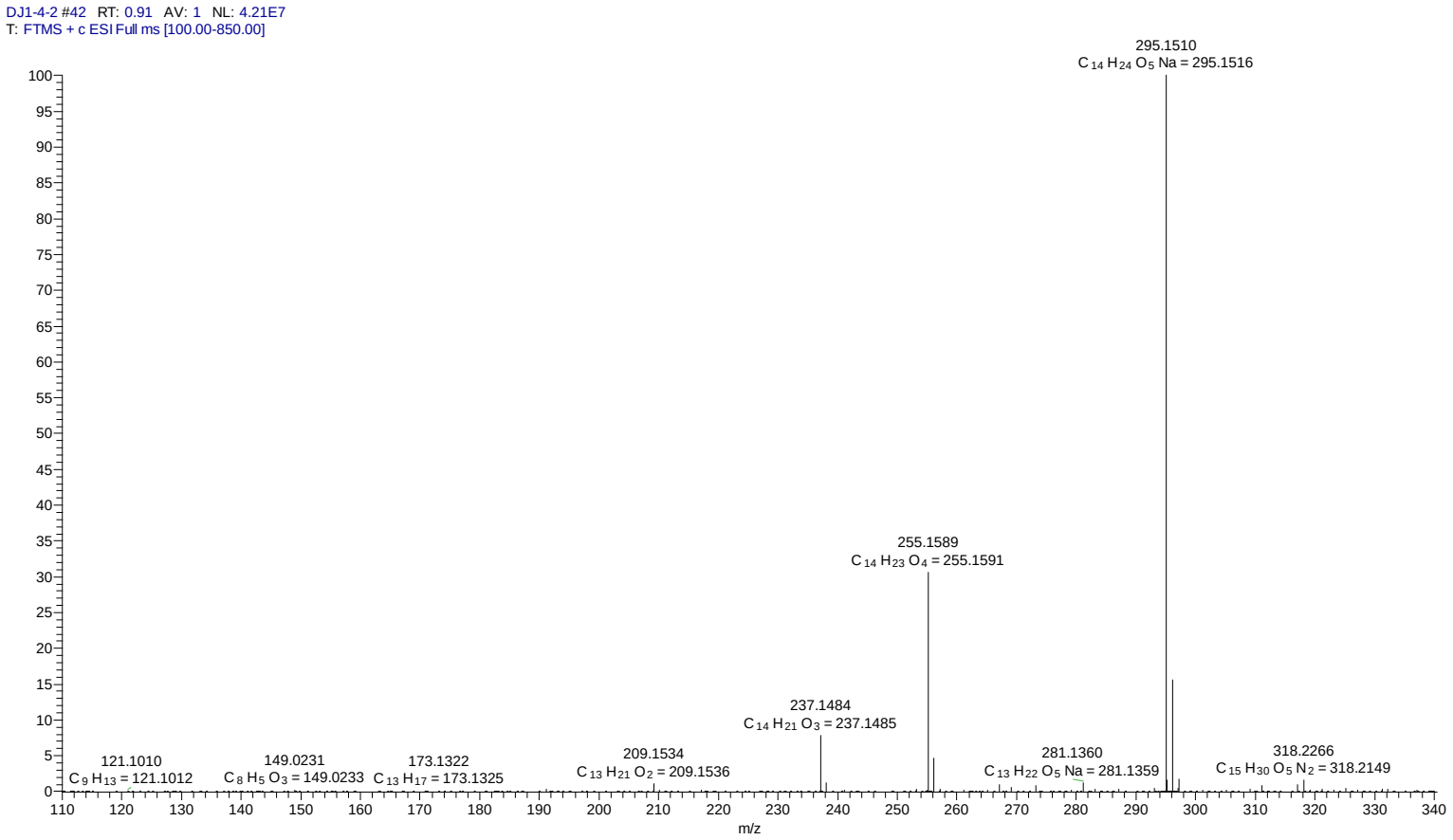

Fig. S56. (+)-HR-ESI-MS (positive mode) of **8**

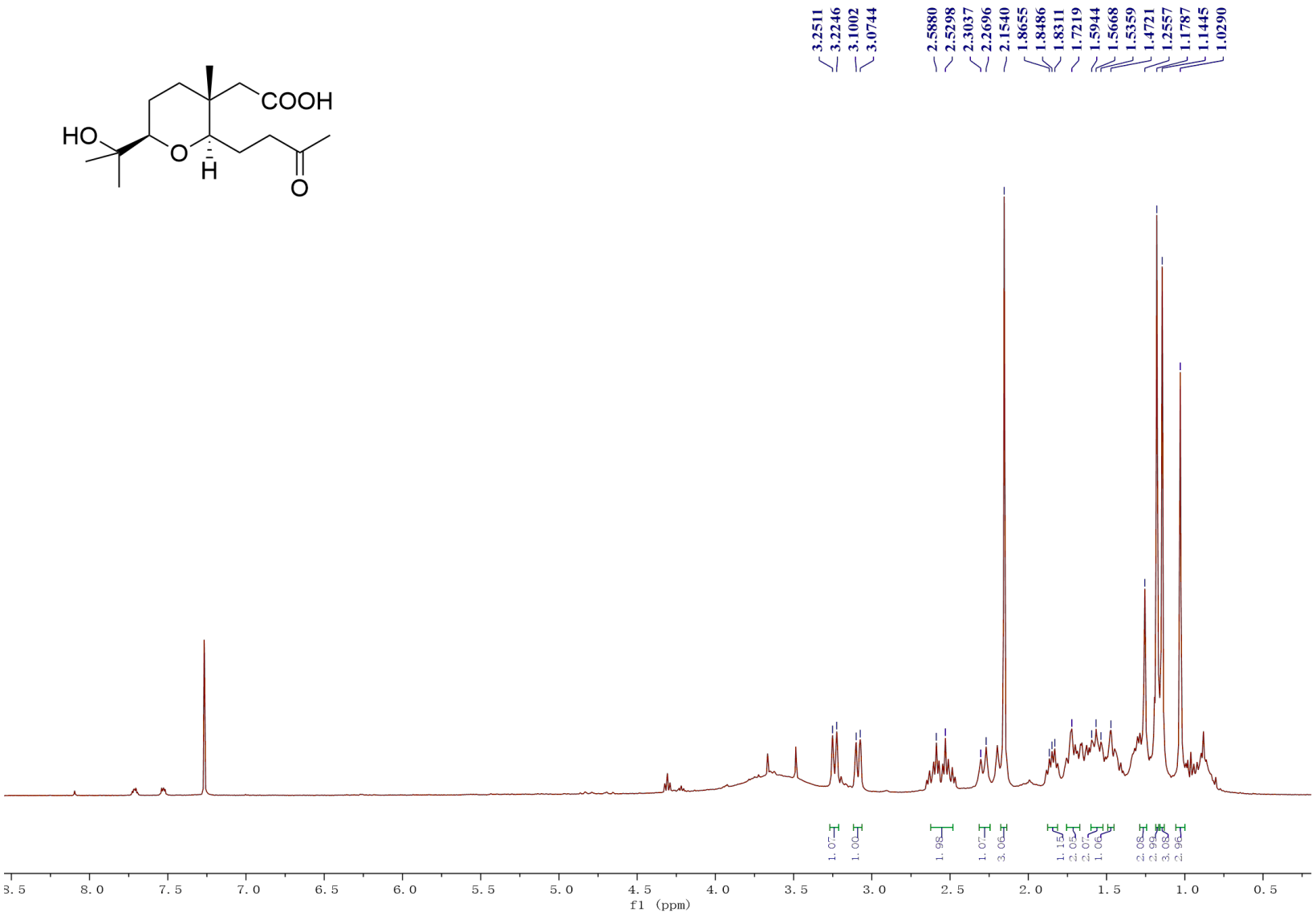

Fig. S57. ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **9**

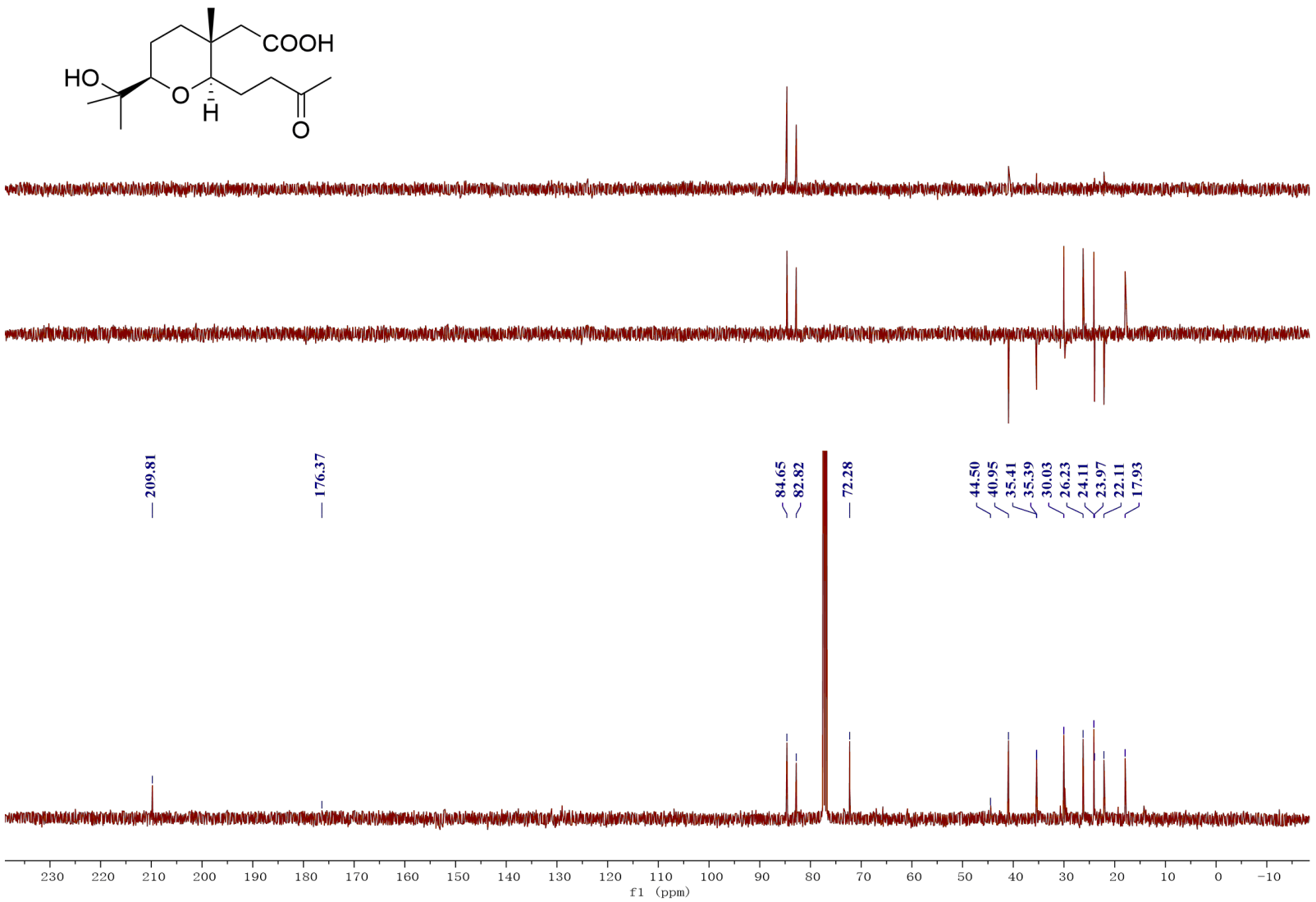

Fig. S58. ^{13}C and DEPT spectra ($CDCl_3$, 150 MHz) of **9**

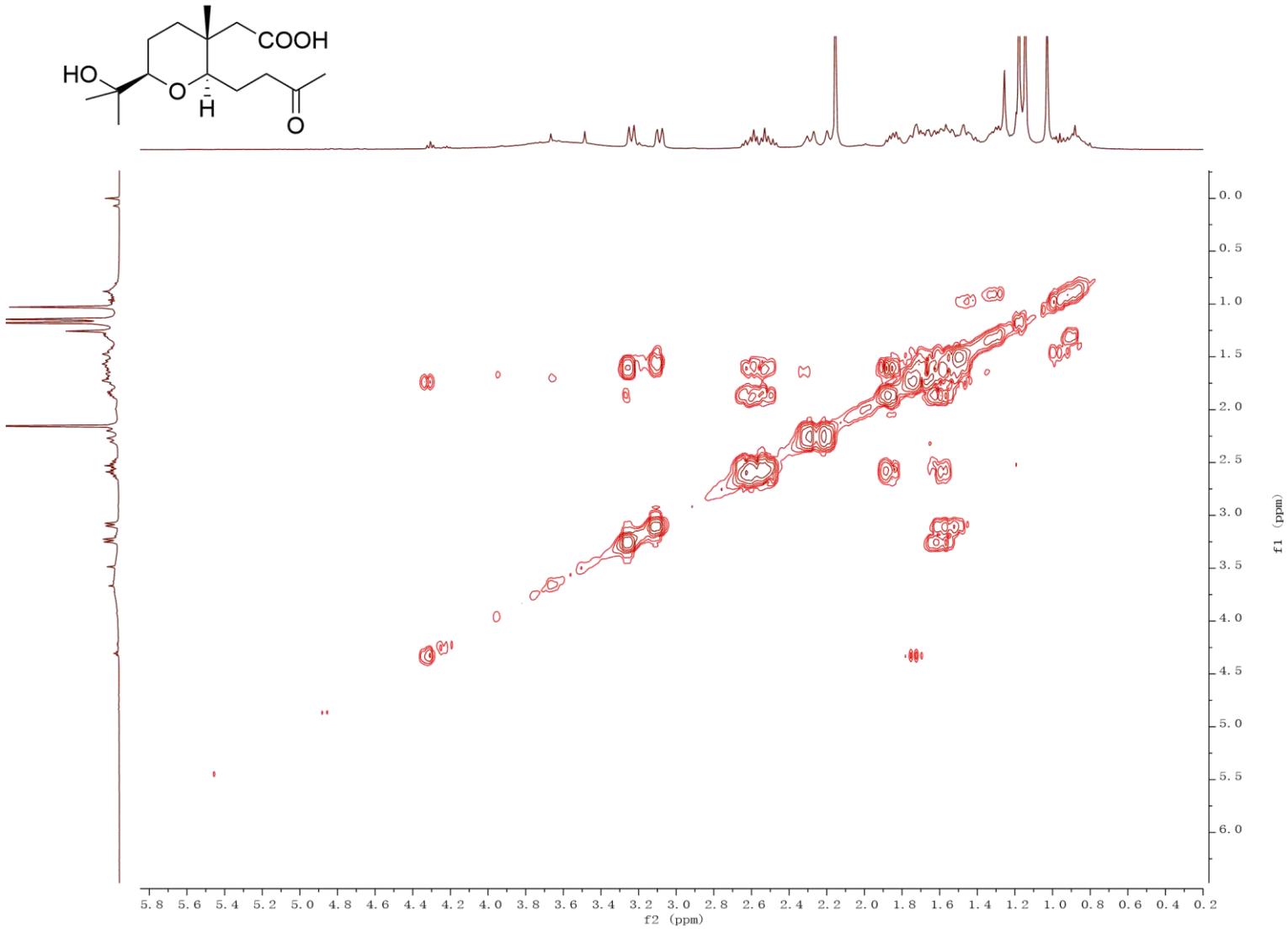

Fig. S59. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 600 MHz) of **9**

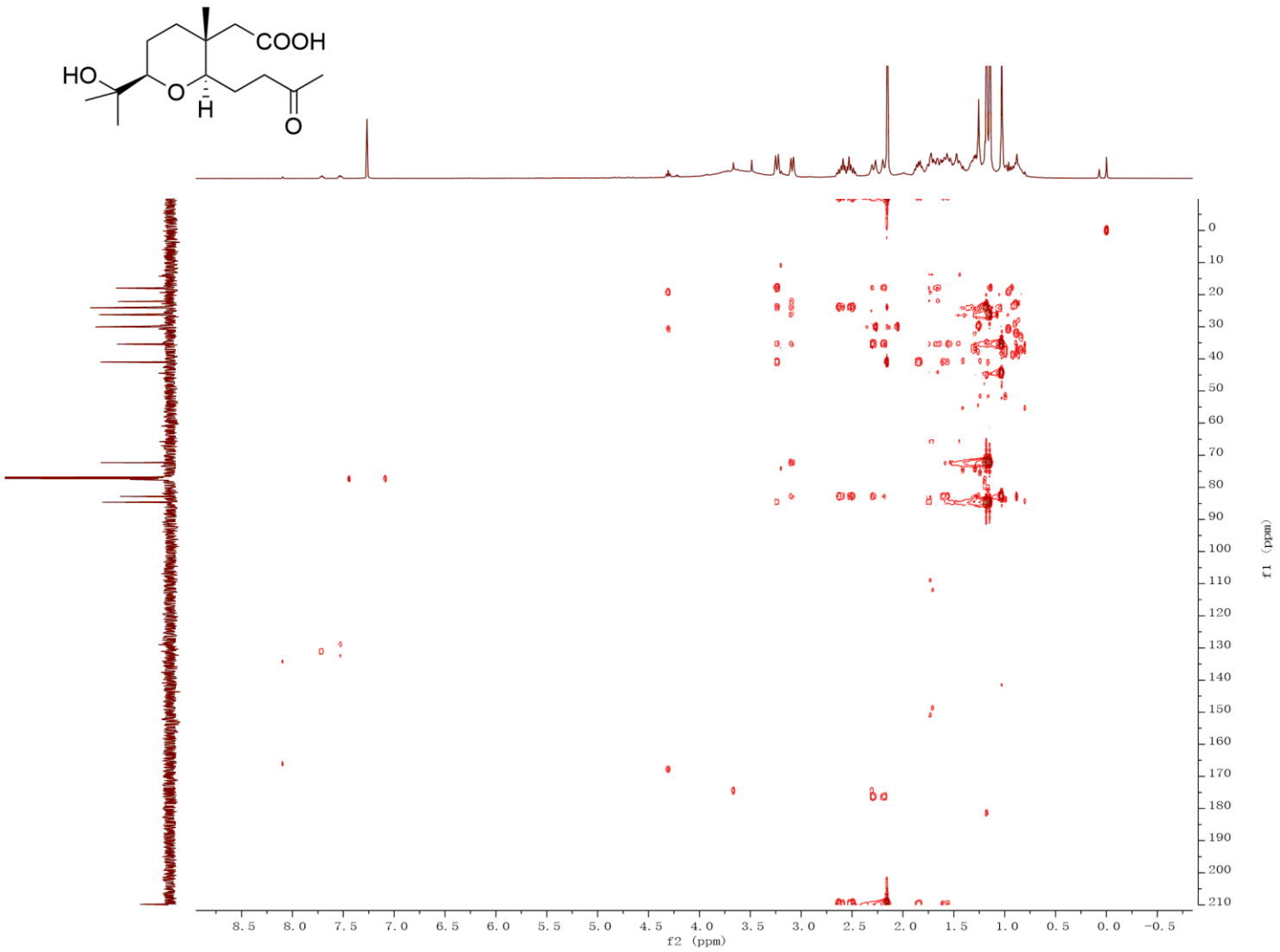

Fig. S60. HMBC spectrum ($CDCl_3$, 600 MHz) of **9**

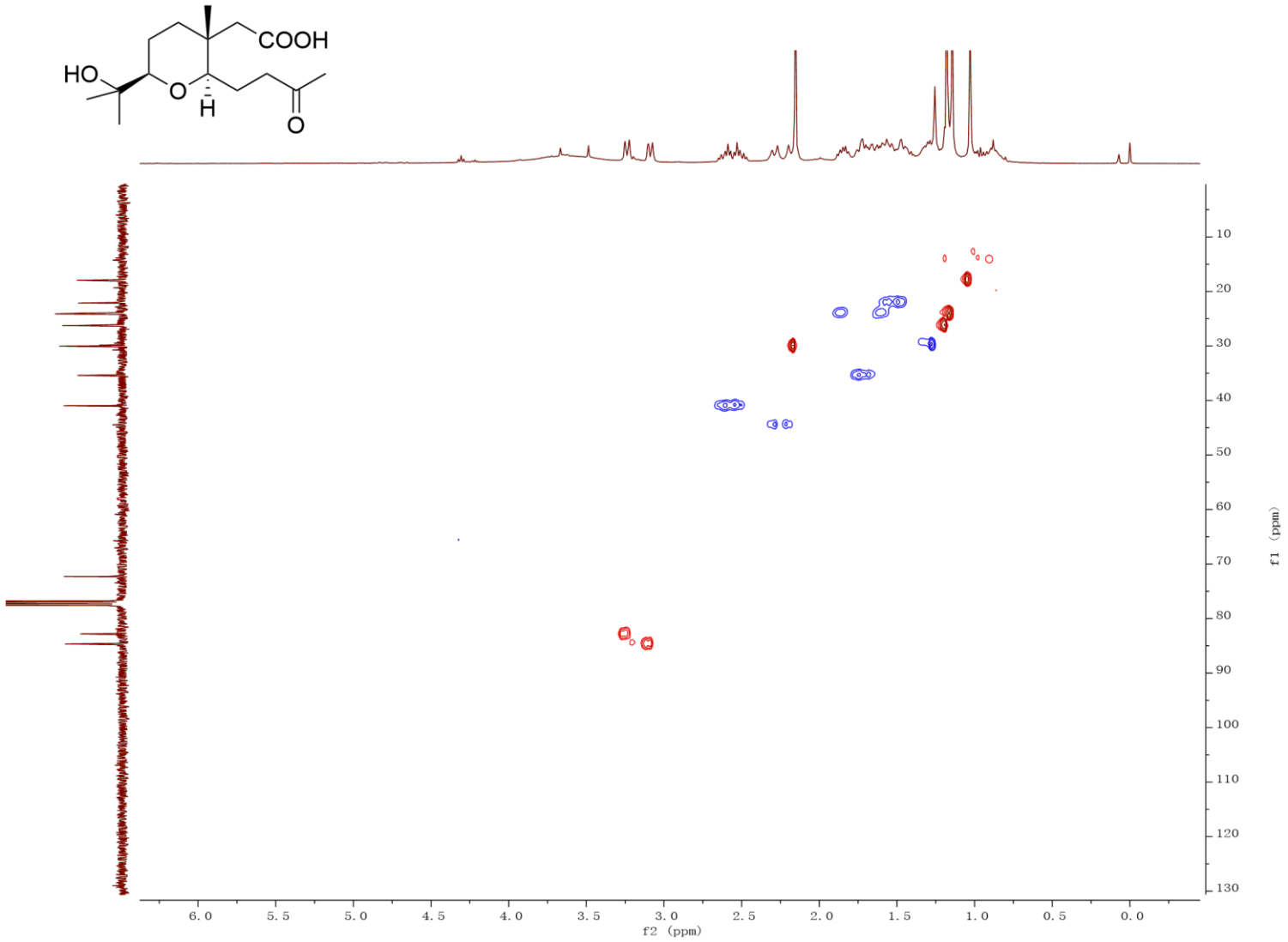

Fig. S61. HSQC spectrum ($CDCl_3$, 600 MHz) of **9**

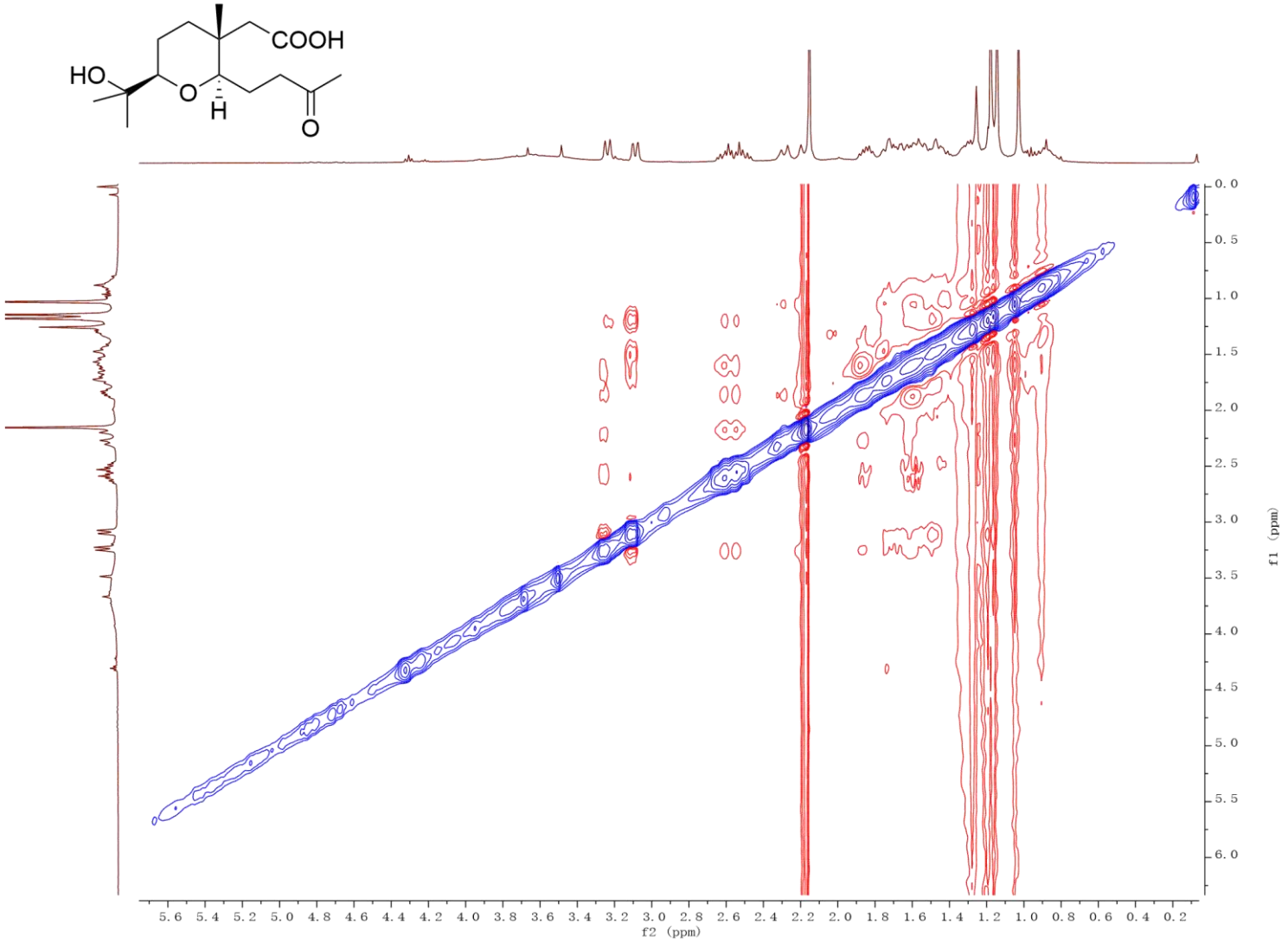

Fig. S62. NOESY spectrum ($CDCl_3$, 600 MHz) of **9**

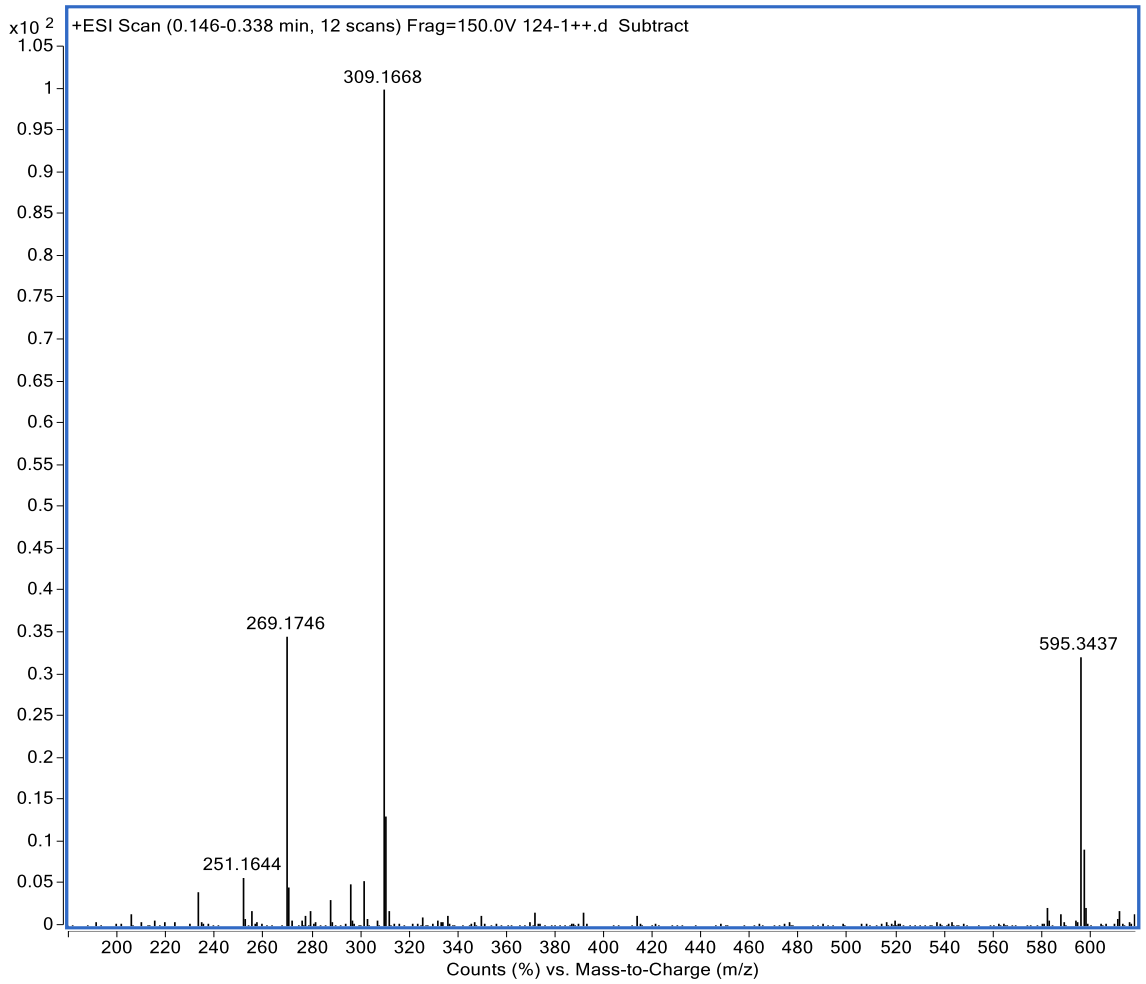

Fig. S63. (+)-HR-ESI-MS (positive mode) of **9**

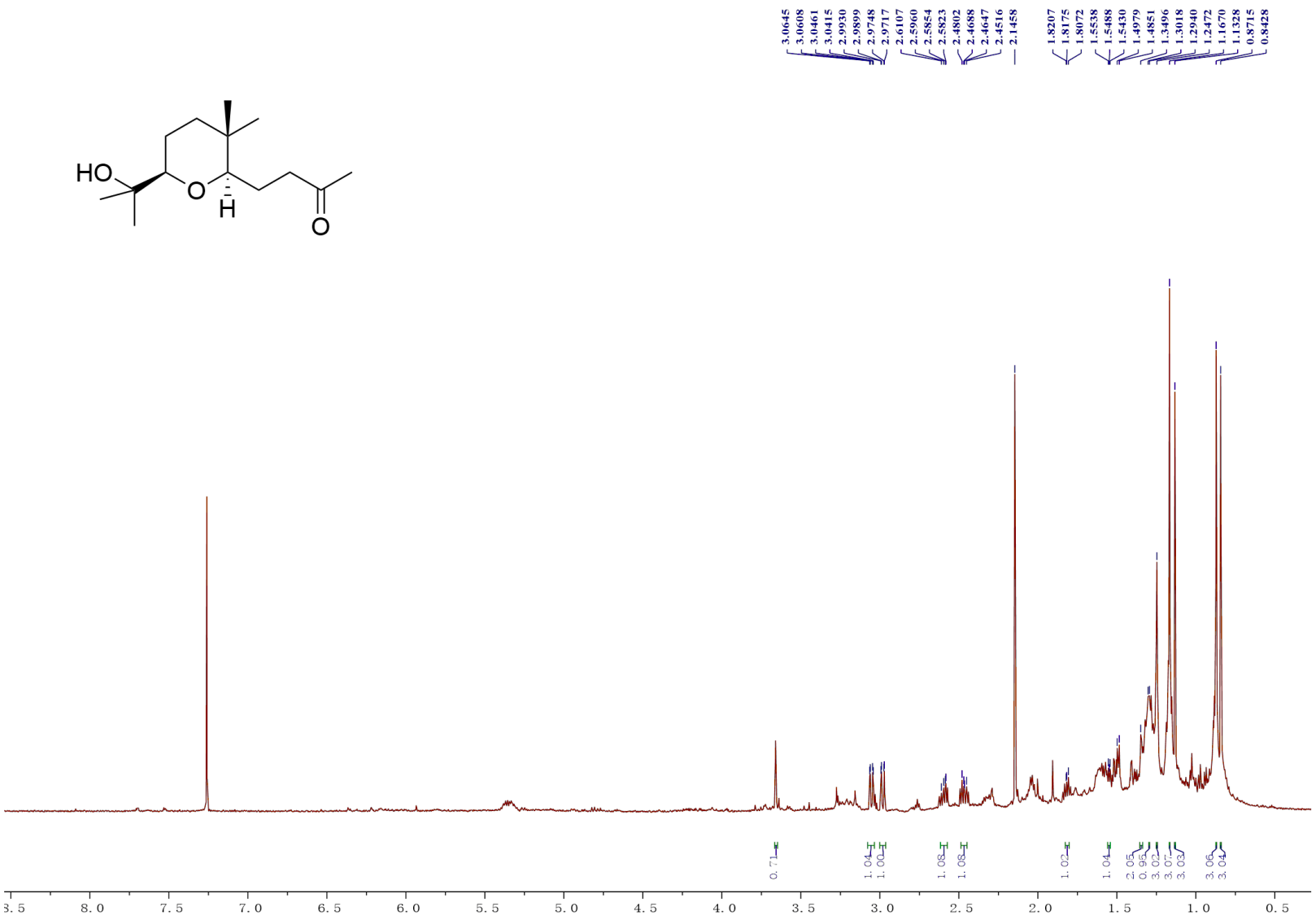

Fig. S64. ^{1}H NMR spectrum ($CDCl_3$, 600 MHz) of **10**

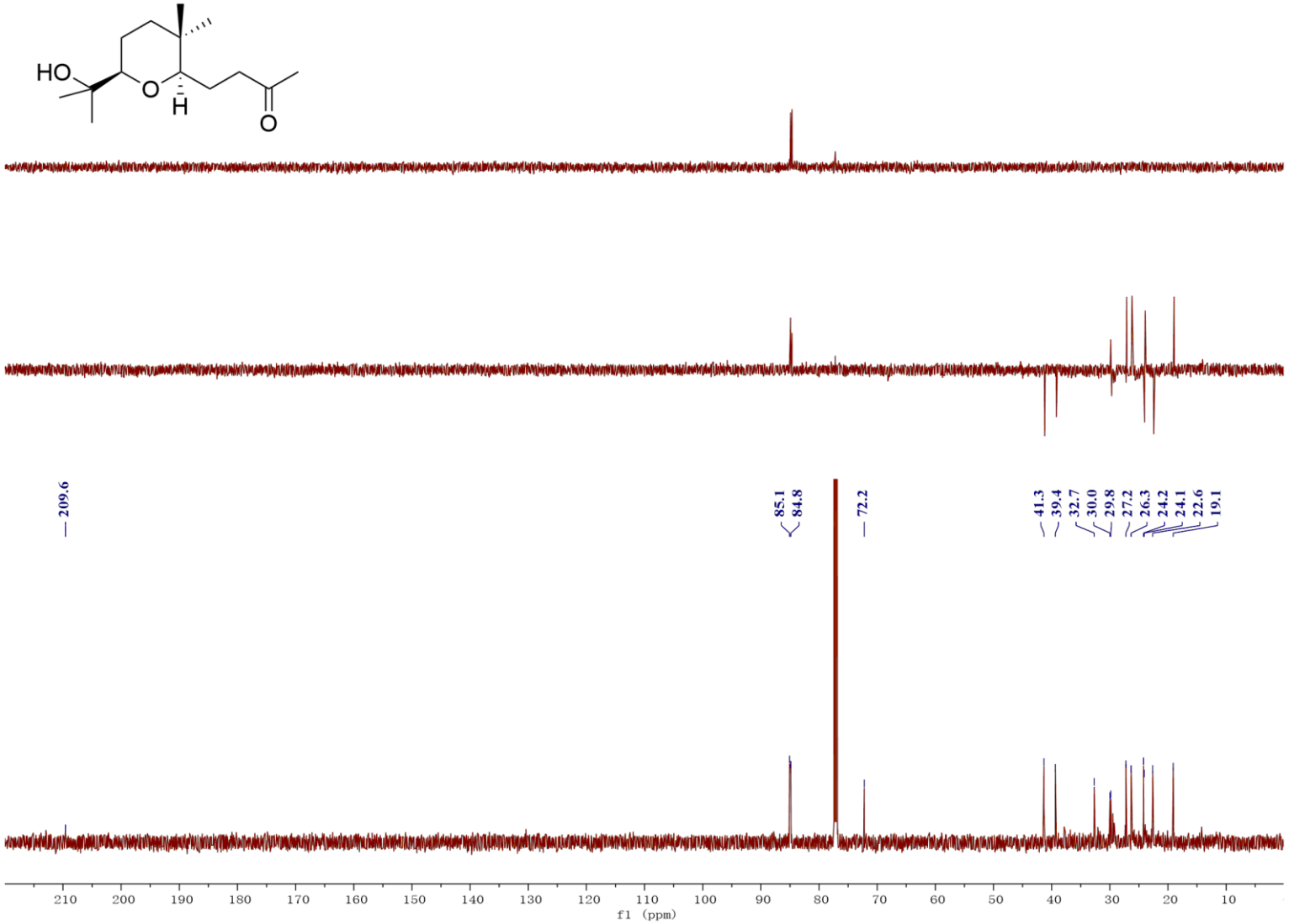

Fig. S65. ^{13}C and DEPT spectra ($CDCl_3$, 150 MHz) of **10**

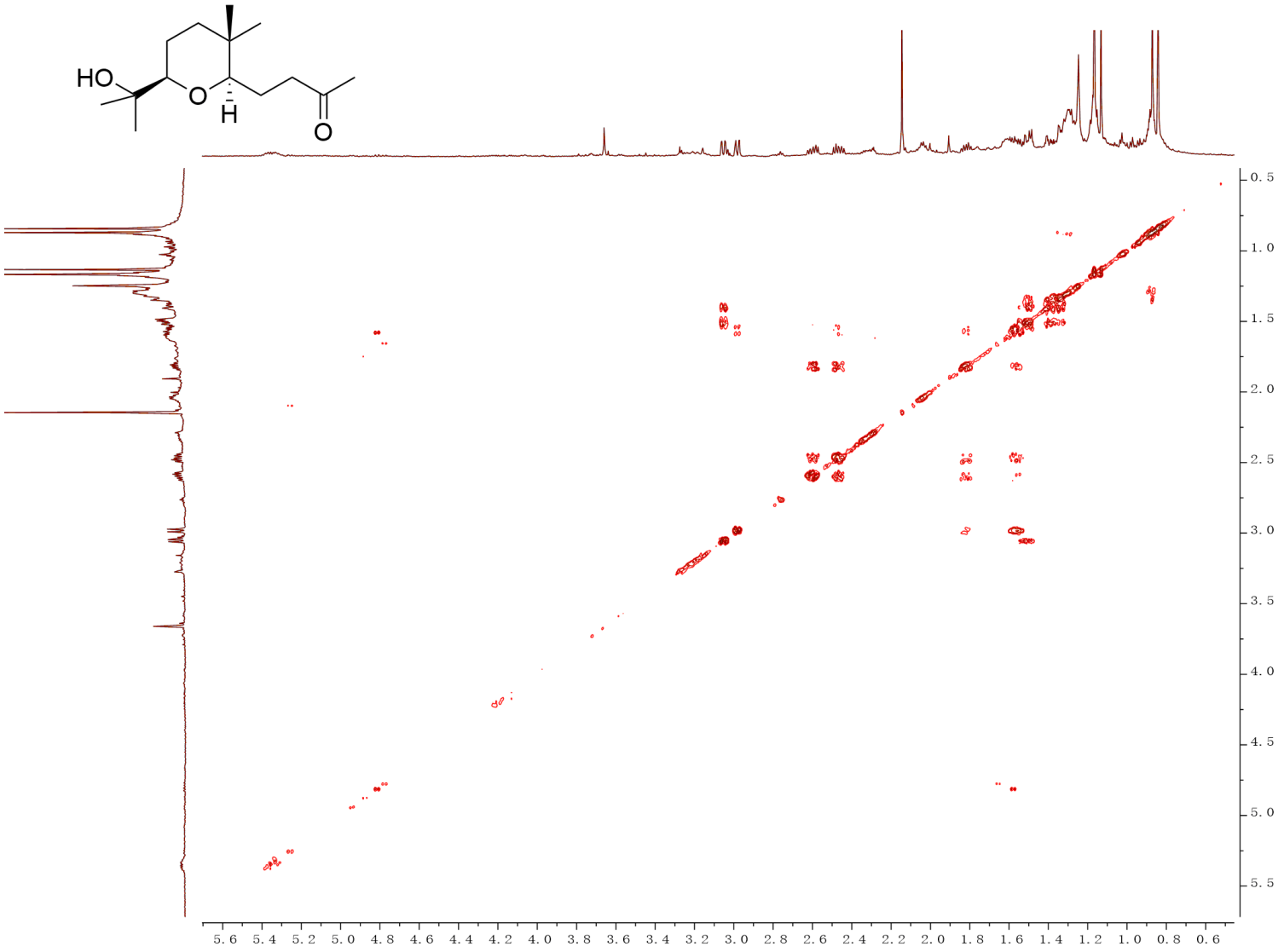

Fig. S66. ^{1}H-^{1}H COSY spectrum ($CDCl_3$, 600 MHz) of **10**

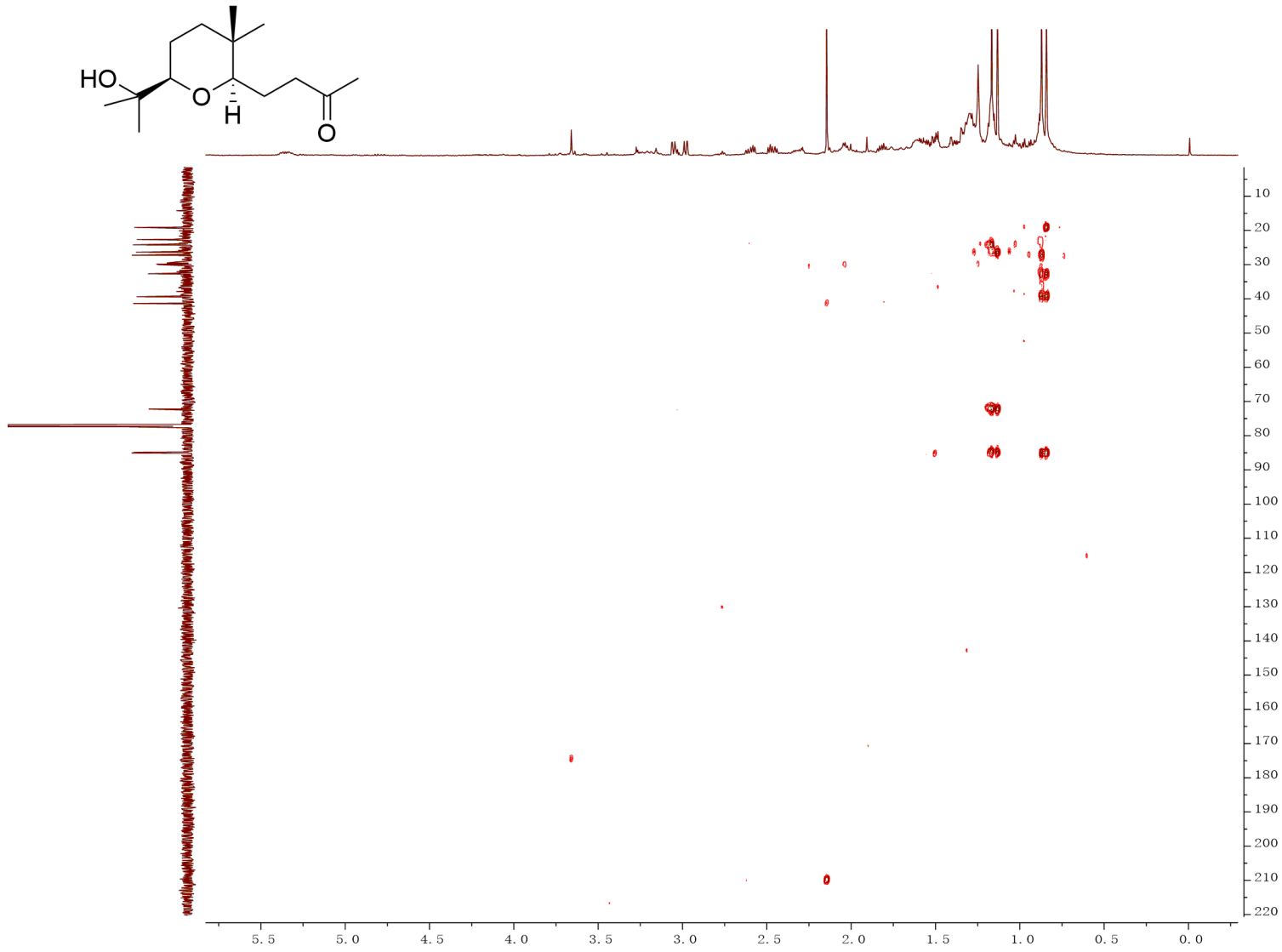

Fig. S67. HMBC spectrum ($CDCl_3$, 600 MHz) of **10**

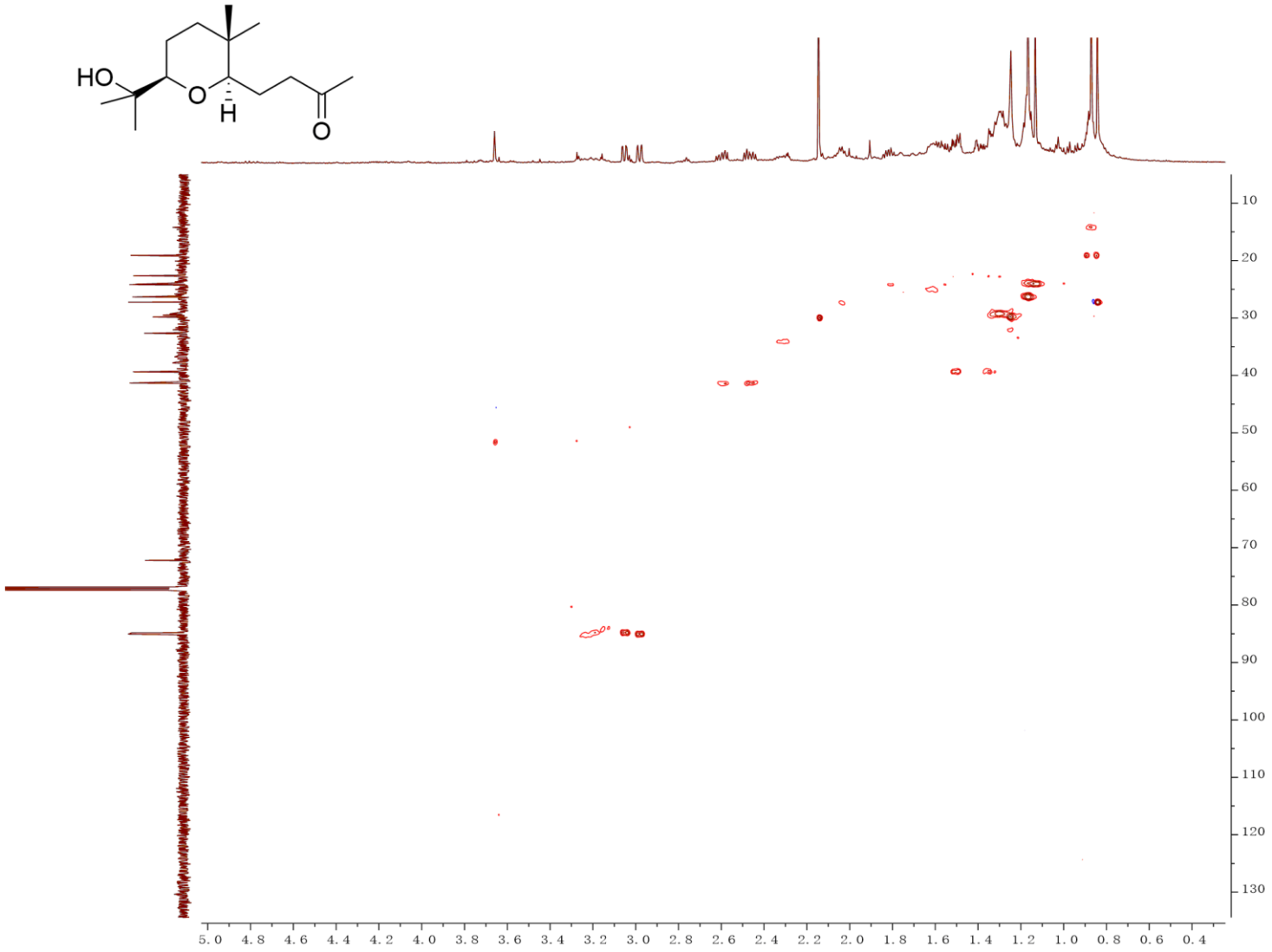

Fig. S68. HSQC spectrum ($CDCl_3$, 600 MHz) of **10**

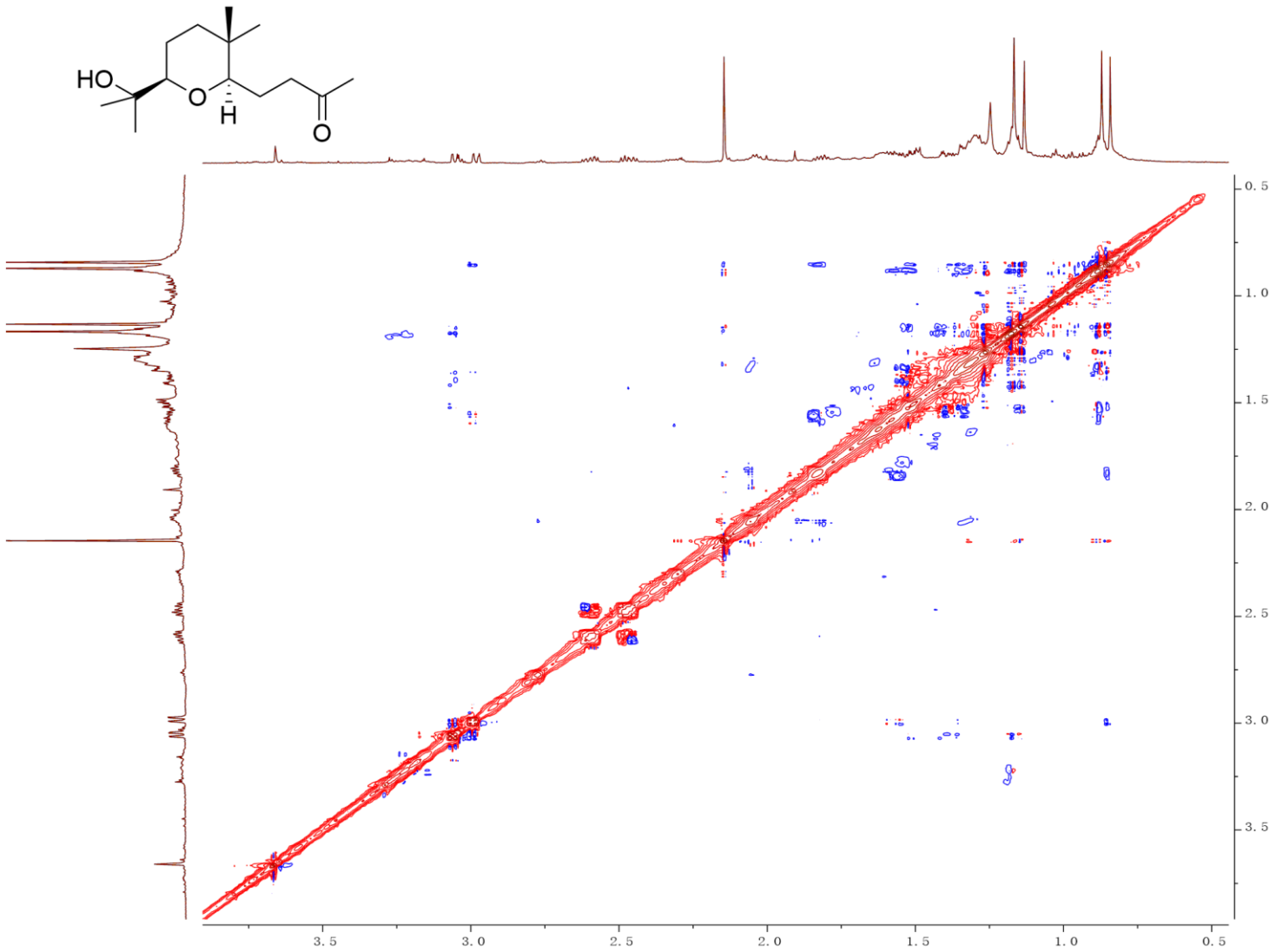

Fig. S69. NOESY spectrum ($CDCl_3$, 600 MHz) of **10**

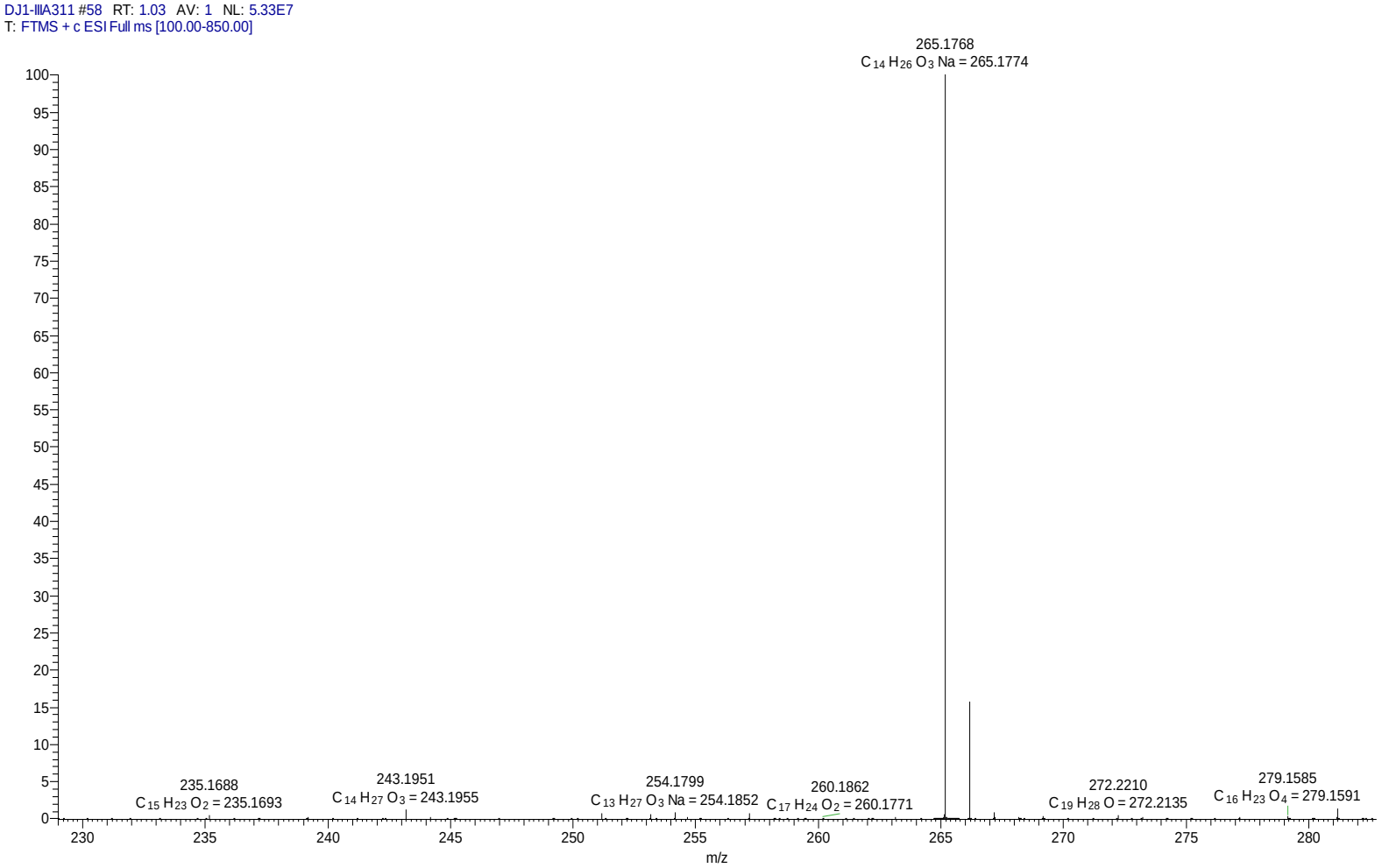

Fig. S70. (+)-HR-ESI-MS (positive mode) of **10**

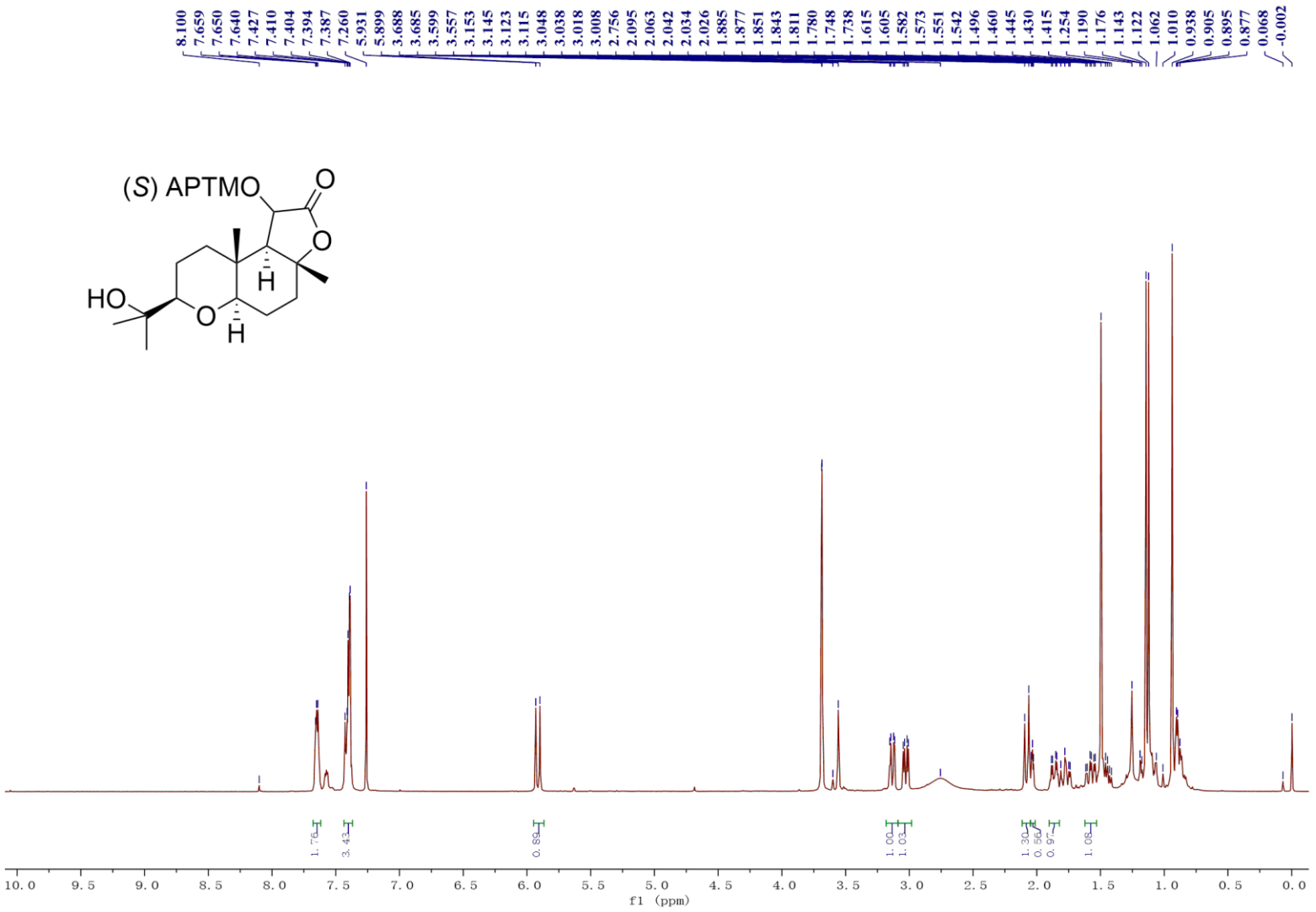

Fig. S71. ^{1}H NMR spectrum of *S*-MTPA ester of **1**

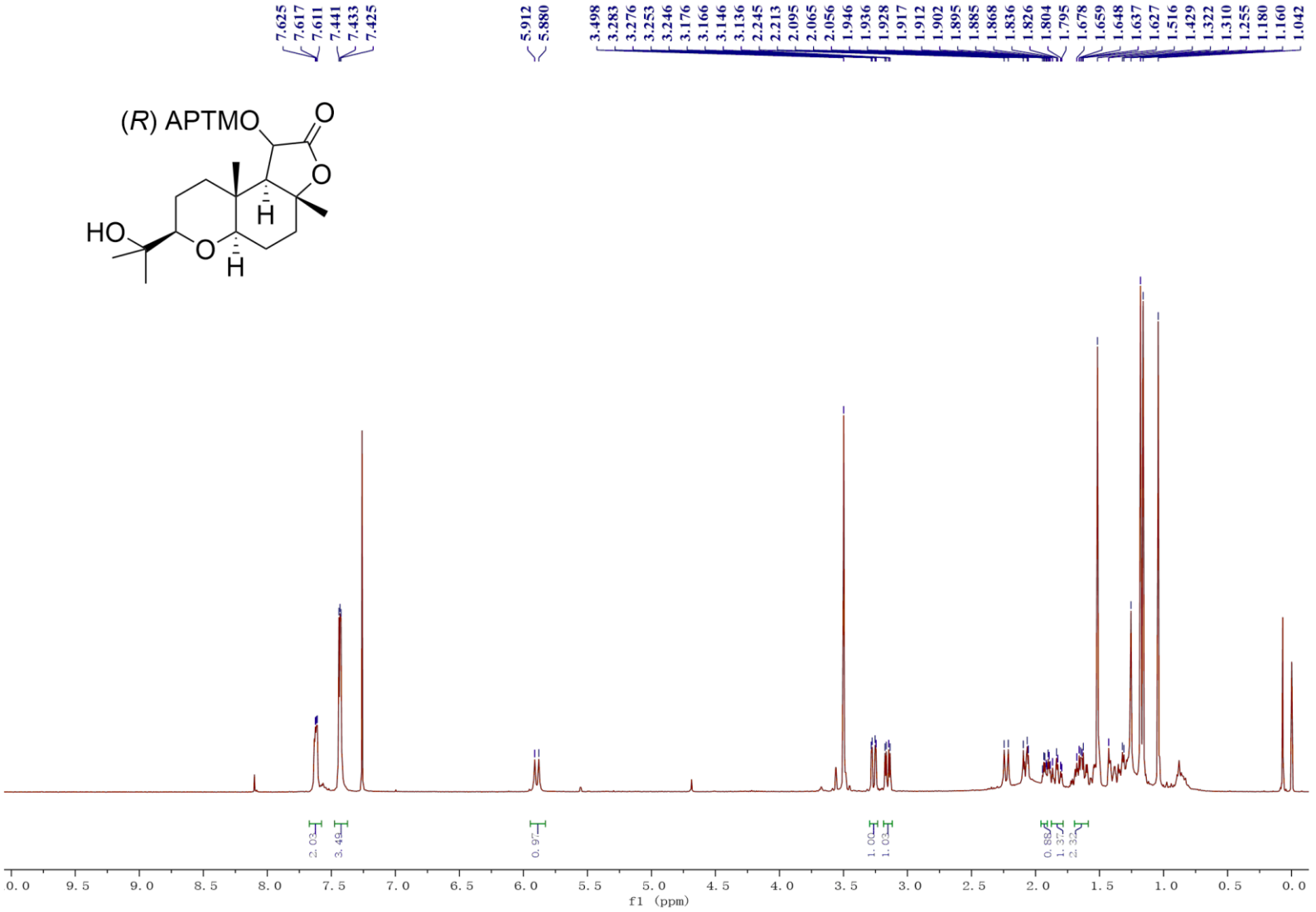

Fig. S72. [1]H NMR spectrum of *R*-MTPA ester of **1**

	A	B	C	D	E	F	G	H
1	Functional		Solvent?		Basis Set		Type of Data	
2	mP▼1P▼91		PC▮		6-31+G(d,p)		Shielding Tensors	
3								
12			DP4+	0.00%	100.00%	-	-	-
14	Nuclei	sp2?	xperimenta	Isomer 1	Isomer 2	Isomer 3	Isomer 4	Isomer 5
15	C		40.6	43.6	44.5			
16	C	x	138.5	146.7	150.9			
17	C	x	137.8	148.3	143.3			
18	C		198.5	209.9	205.3			
19	C		26.9	51.9	29.9			
20	C		79	82.2	81.6			
21	C		31.6	39.6	34.5			
22	C		37.9	42.3	40.8			
23	C		22.3	25.2	25.5			
24	C		84.6	87.8	87.6			
25	C		72	74.1	74.3			
26	C		26.1	27.12	27.47			
27	C		23.9	24.27	24.45			
28	C		16.5	17.85	17.60			
29	C		25.5	24.54	28.12			
30								
31	H		2.14	2.19	2.22			
32	H		2.03	2.09	2.16			
33	H	x	6.74	6.62	7.37			
34	H		1.98	2.65	2.03			
35	H		2.63	2.88	2.70			
36	H		3.32	3.48	3.35			
37	H		1.35	1.40	1.38			
38	H		1.72	1.55	1.72			
39	H		1.49	1.38	1.43			
40	H		1.62	1.62	1.74			
41	H		3.2	3.19	3.22			
42	H		1.18	1.14	1.16			
43	H		1.17	1.11	1.11			
44	H		0.85	1.1	0.91			
45	H		2.3	1.9	2.34			
46								

	A	B	C	D	E	F	G	H
1	Functional		Solvent?		Basis Set		Type of Data	
2	mP▼1P▼91		PC▮		6-31+G(d,p)		Shielding Tensors	
3								
4			Isomer 1	Isomer 2	Isomer 3	Isomer 4	Isomer 5	Isomer 6
5	sDP4+ (H data)		0.00%	100.00%	-	-	-	-
6	sDP4+ (C data)		0.00%	100.00%	-	-	-	-
7	sDP4+ (all data)		0.00%	100.00%	-	-	-	-
8	uDP4+ (H data)		46.40%	53.60%	-	-	-	-
9	uDP4+ (C data)		75.32%	24.68%	-	-	-	-
10	uDP4+ (all data)		72.54%	27.46%	-	-	-	-
11	DP4+ (H data)		0.00%	100.00%	-	-	-	-
12	DP4+ (C data)		0.00%	100.00%	-	-	-	-
13	DP4+ (all data)		0.00%	100.00%	-	-	-	-

Fig. S73. DP4+ analysis of **3a** (Isomer 1) and **3b** (Isomer 2).

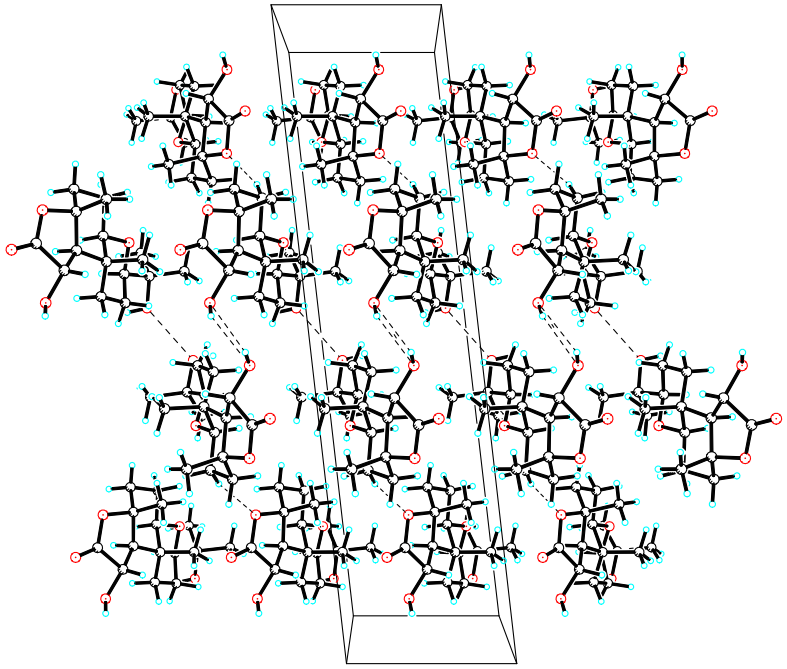

Fig. 74. View of the pack drawing of bipodonine A (**1**).