Supporting Information

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Anti-inflammatory Continents from the Heartwood of *Dalbergia melanoxylon*

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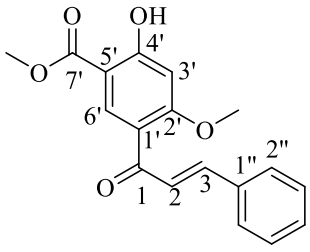
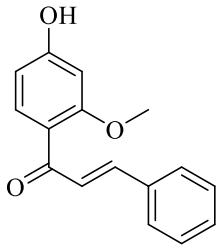


compound **1**



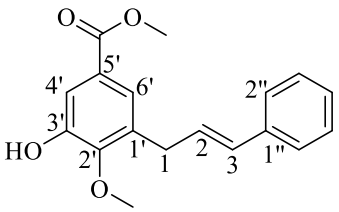
2'-methoxy-4'-hydroxychalcone

Table S1 : The most similar compound data to compound **1**

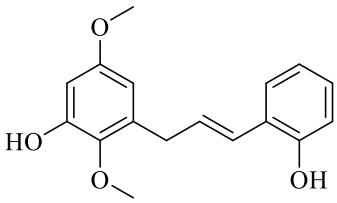
Position	**1**[a]		2'-methoxy-4'-hydroxychalcone [b]	
	δ_H	δ_C	δ_H	δ_C
1	-	188.5		191.2
2	7.59 (1H, d, J = 15.8 Hz)	126.7	7.52 (1H, d, J = 15.6)	127.1
3	7.66 (1H, d, J = 15.8 Hz)	141.8	7.68 (1H, d, J = 15.6)	142.7
1'	-	130.2	-	121.5
2'	-	164.5	-	161.6
3'	6.69 (1H, s)	99.8	6.52~6.49 (2H, d, J = 8.0)	99.4
5'	-	105.5		108.1
4'	-	166.1	-	161
6'	8.23 (1H, s)	133.5	7.70 (1H, d, J = 8.0)	133.1
7'	-	170.0	-	-
1"	-	135.3	-	135.4
2", 6"	7.75 (2H, dd, J = 7.2, 1.8 Hz)	128.4	7.40~7.37 (3H, m)	128.9
4"	7.46 (3H, d, J = 5.9 Hz)	126.8		130.1
3", 5"		128.9	7.58 (2H, m)	128.4
2'-OCH_3	4.05 (3H, s)	56.0	3.85 (3H, s)	55.7
7'-OCH_3	3.98 (3H, s)	52.0	-	-
4'-OH	11.27 (1H, s)	-	-	-

[a] Measured in Acetone-d_6.

[b] Measured in $CDCl_3$.



compound **2**



candenatenin H

Table S2 : The most similar compound data to compound **2**

Position	**2**[a]		candenatenin H [b]	
	δ_H	δ_C	δ_H	δ_C
1	3.46 (2H, d, J = 6.5 Hz)	30.7	3.25 (dd, 7.8, 1.5)	29.8
2	7.22 (1H, t, J = 7.3 Hz)	128.5	5.93 (dt, 15.4, 7.8)	135.4
3	6.35 (1H, m)	137.6	6.34 (br d, 15.4)	123.3
1'	-	130.8	-	119.0
2'	-	163.4	-	151.8
3'	-	162.7	-	144.7
4'	6.48 (1H, s)	127.0	6.47 (s)	99.4
5'	-	120.5	-	140.2
6'	7.62 (1H, s)	98.1	6.52 (s)	113.2
7'	-	170.5	-	-
1''	-	130.4	-	123.7
2''	7.33 (5H, m)	128.4	-	152.7
6''			7.06 (br d, 7.5)	129.8
3''		126.1	6.85 (br d, 7.5)	115.4
5''			6.83 (br t, 7.5)	120.2
4''		127.0	7.12 (td, 7.5, 1.5)	128.7
2'-OCH_3	3.89 (3H, s)	51.9	3.67 (s)	56.0
5'-OCH_3	-	-	3.73 (s)	56.7
7'-OCH_3	3.92 (3H, s)	55.7	-	-
3'-OH	10.95 (1H, s)	-	5.49 (s)	-

[a] Measured in Acetone-d_6.

[b] Measured in $CDCl_3$.

Table S3 : Mass information of compound **1**-**2** in HR-ESI-MS spectrum

Compounds	Ionic mode	Formula	Measured value (m/z)	Calculated value (m/z)	Error (ppm)
1	$[M-H]^-$	$C_{18}H_{15}O_5$	311.09247	311.09250	3.439
2	$[M-H]^-$	$C_{18}H_{17}O_4$	297.11346	297.11323	4.458

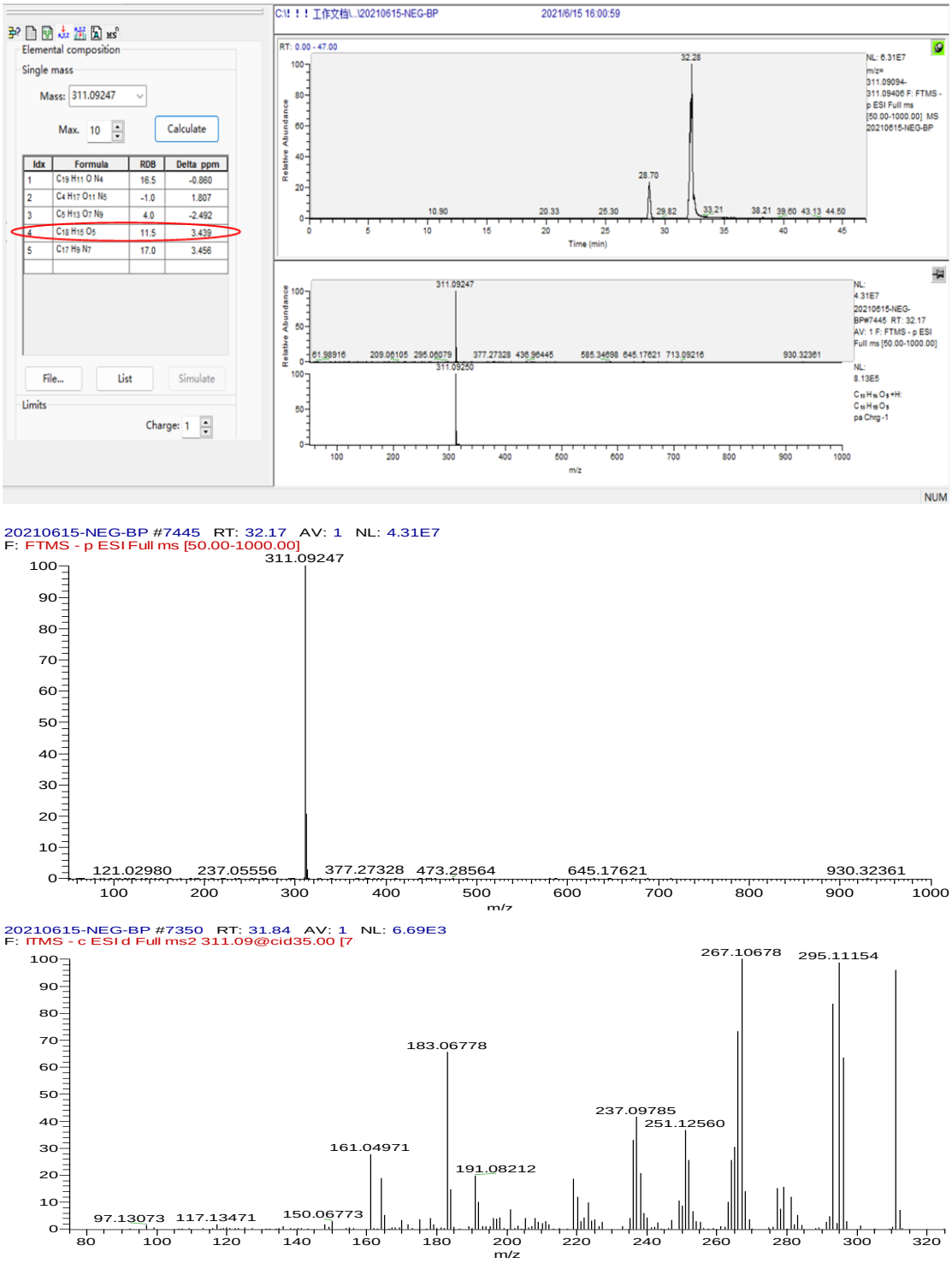


Figure S1: HR-ESI-MS spectrum of compound **1**

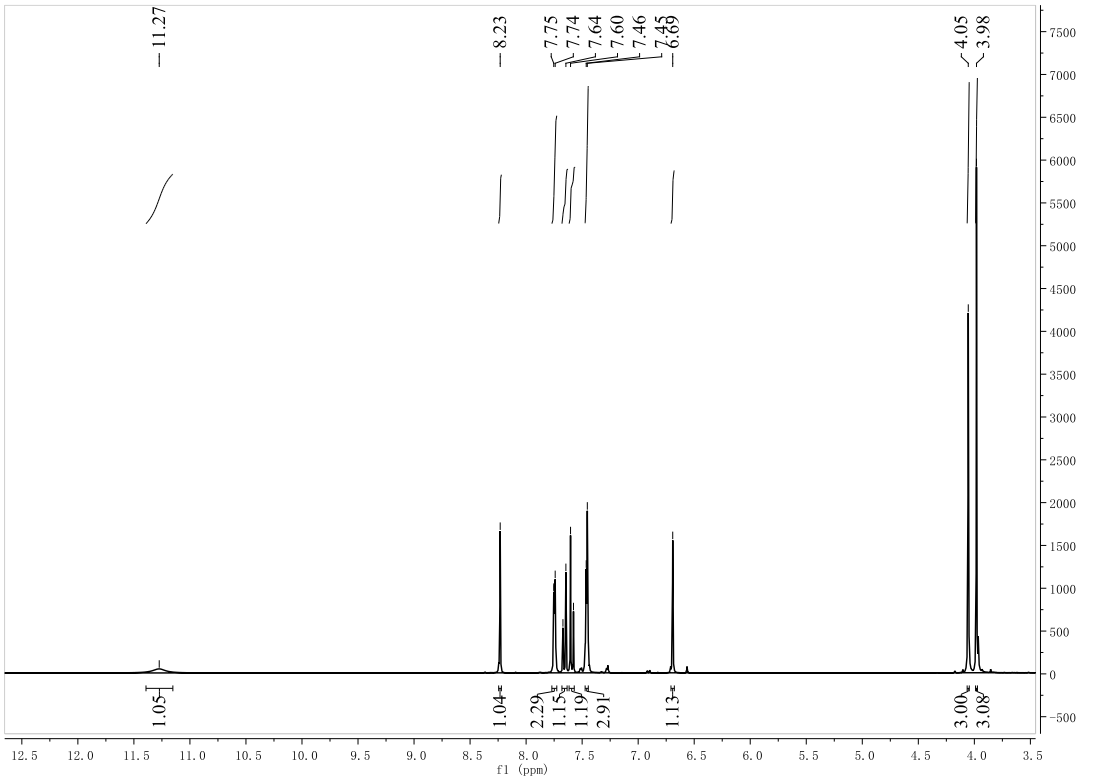


Figure S2: [1]H-NMR (600 MHz, Acetone-d_6) spectrum of **1**

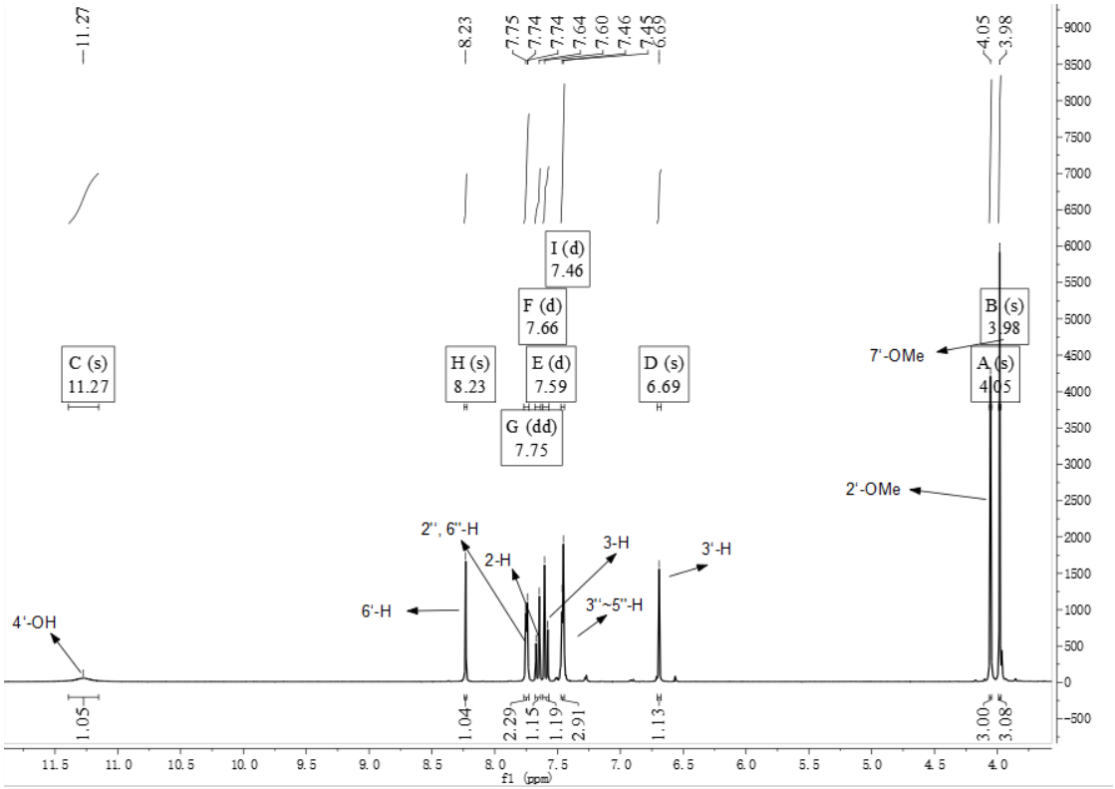


Figure S3: The labeled [1]H-NMR spectrum of compound **1**

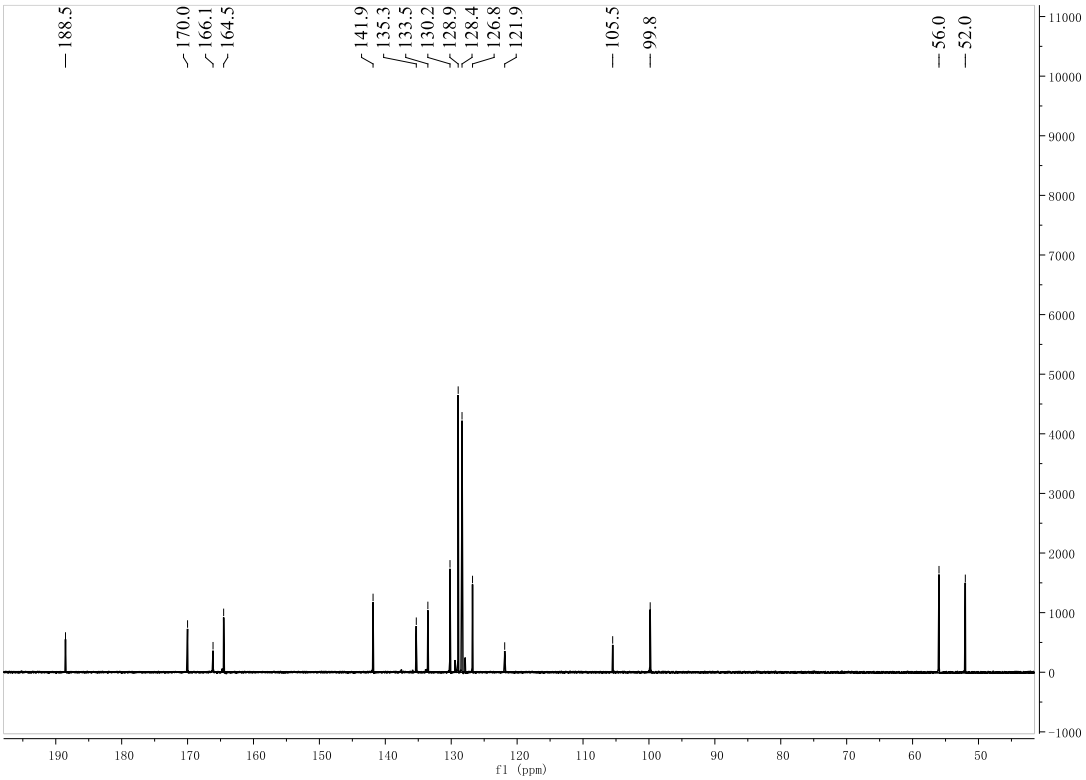


Figure S4: ^{13}C-NMR (151 MHz, Acetone-d_6) spectrum of compound **1**

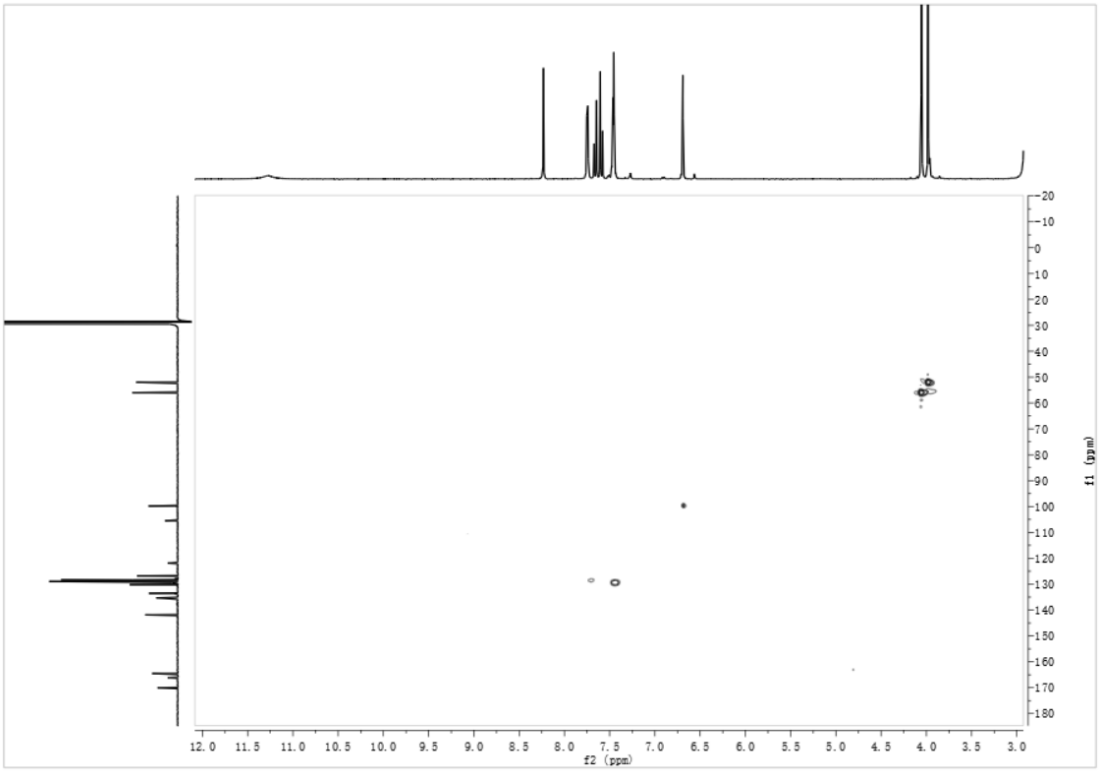


Figure S5: HSQC spectrum of compound **1**

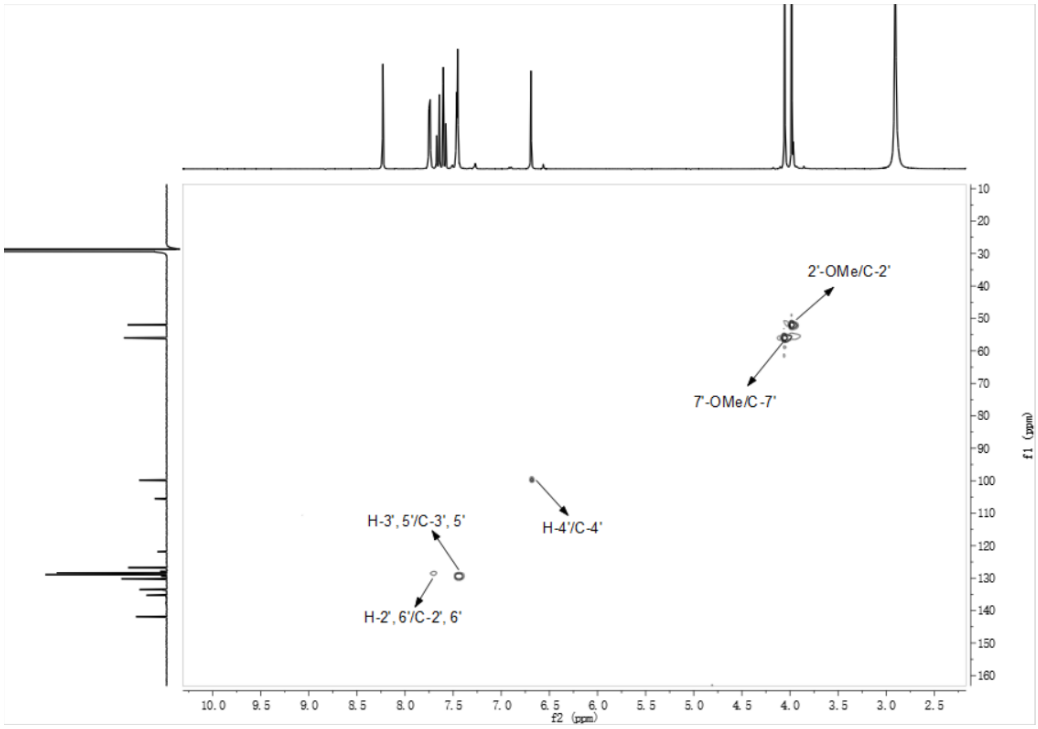


Figure S6: The labeled HSQC spectrum of compound **1**

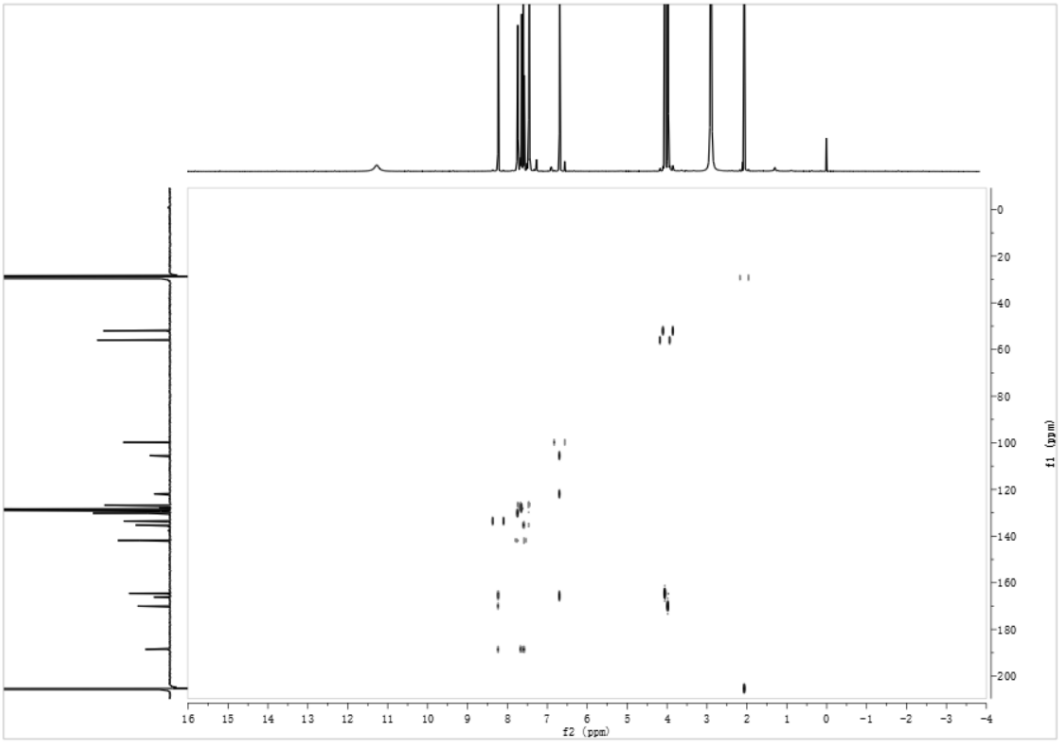


Figure S7: HMBC spectrum of compound **1**

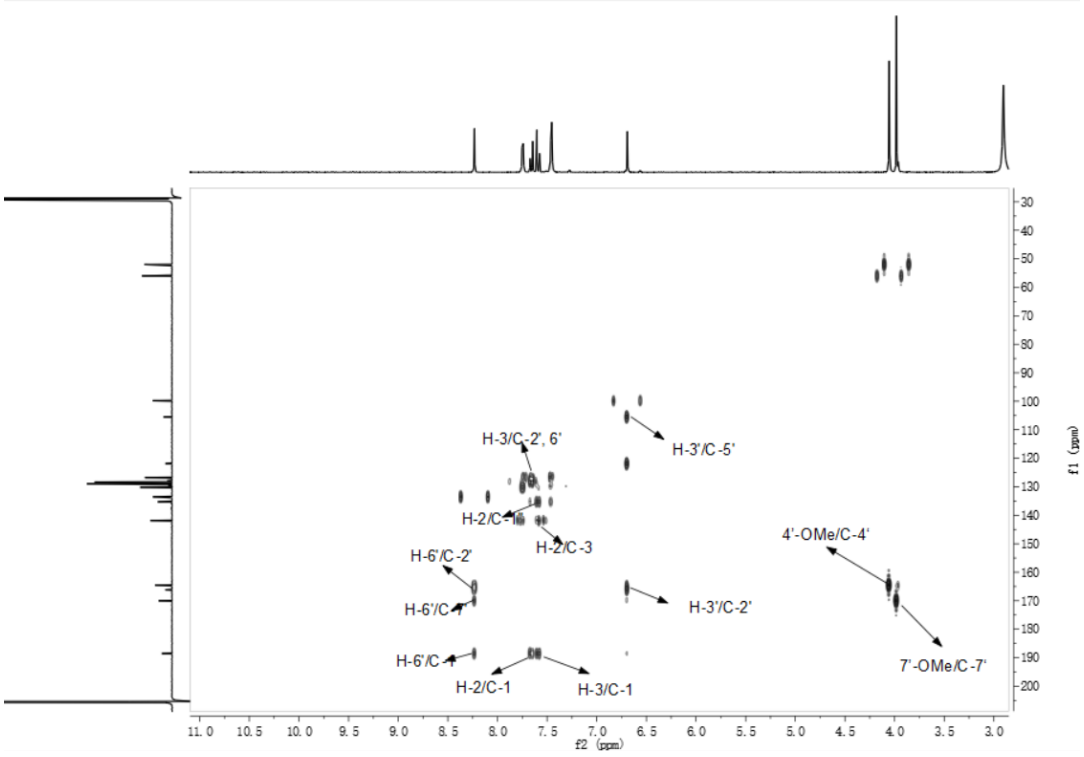


Figure S8: The labeled HMBC spectrum of compound **1**

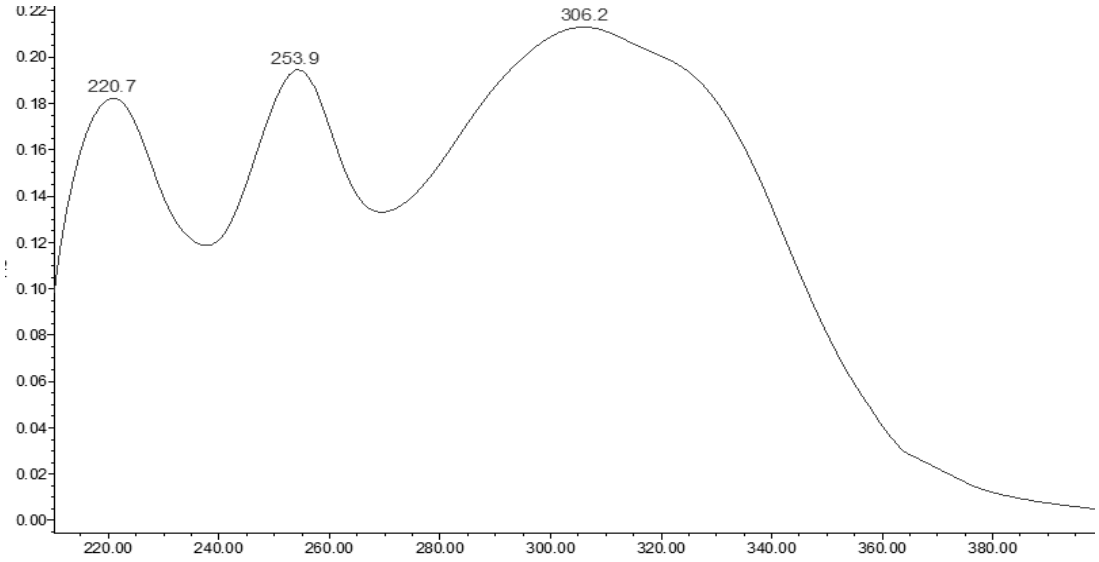


Figure S9: UV spectra of compound **1**

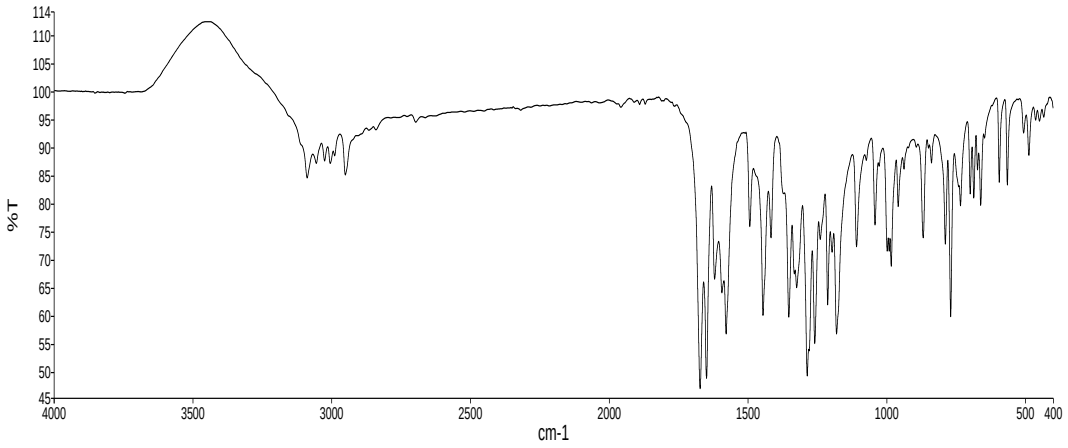
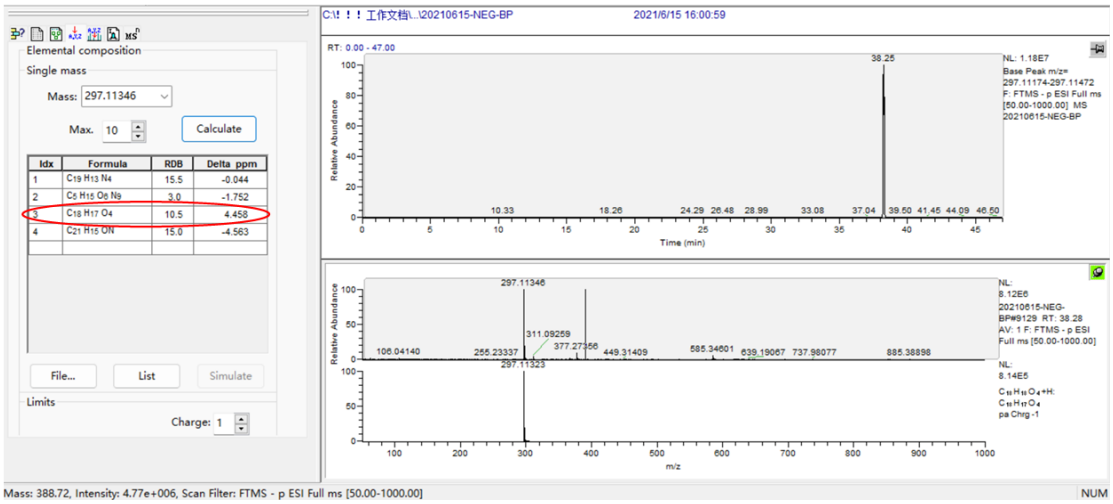
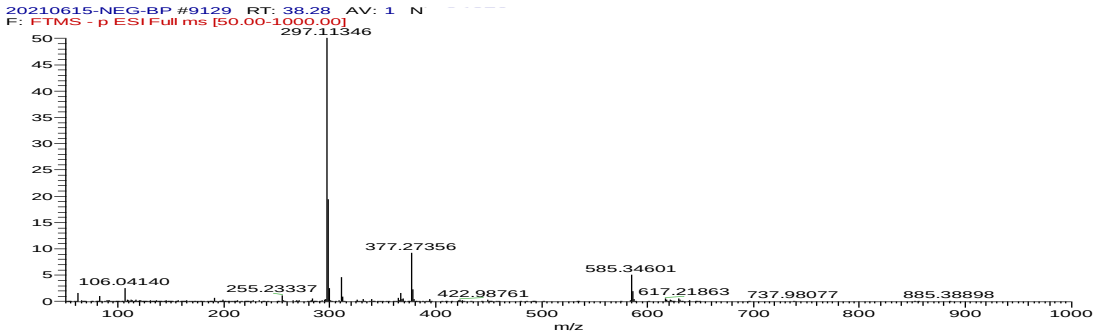


Figure S10: IR spectra of compound **1**





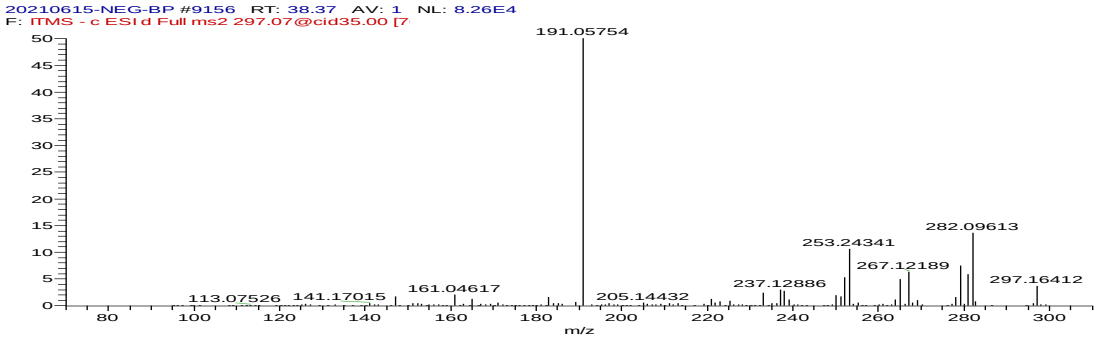


Figure S11: HR-ESI-MS spectrum of compound **2**

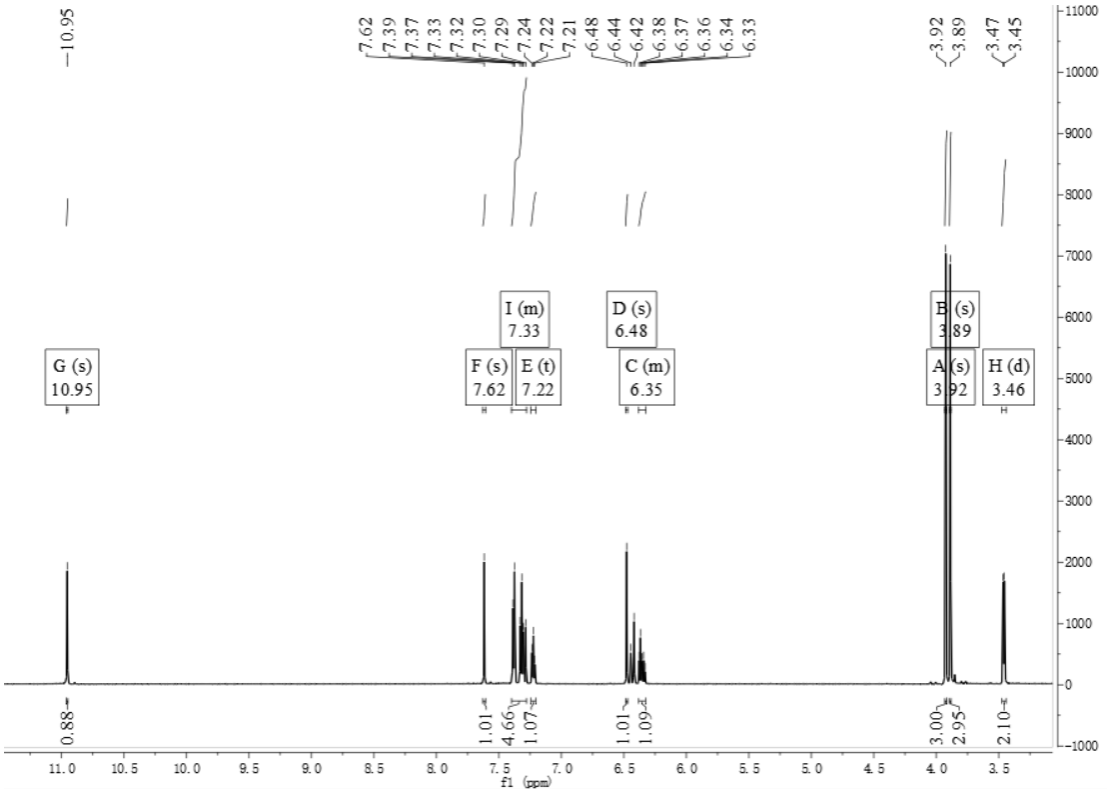


Figure S12: ^{1}H-NMR (600 MHz, $CDCl_3$-d_6) spectrum of compound **2**

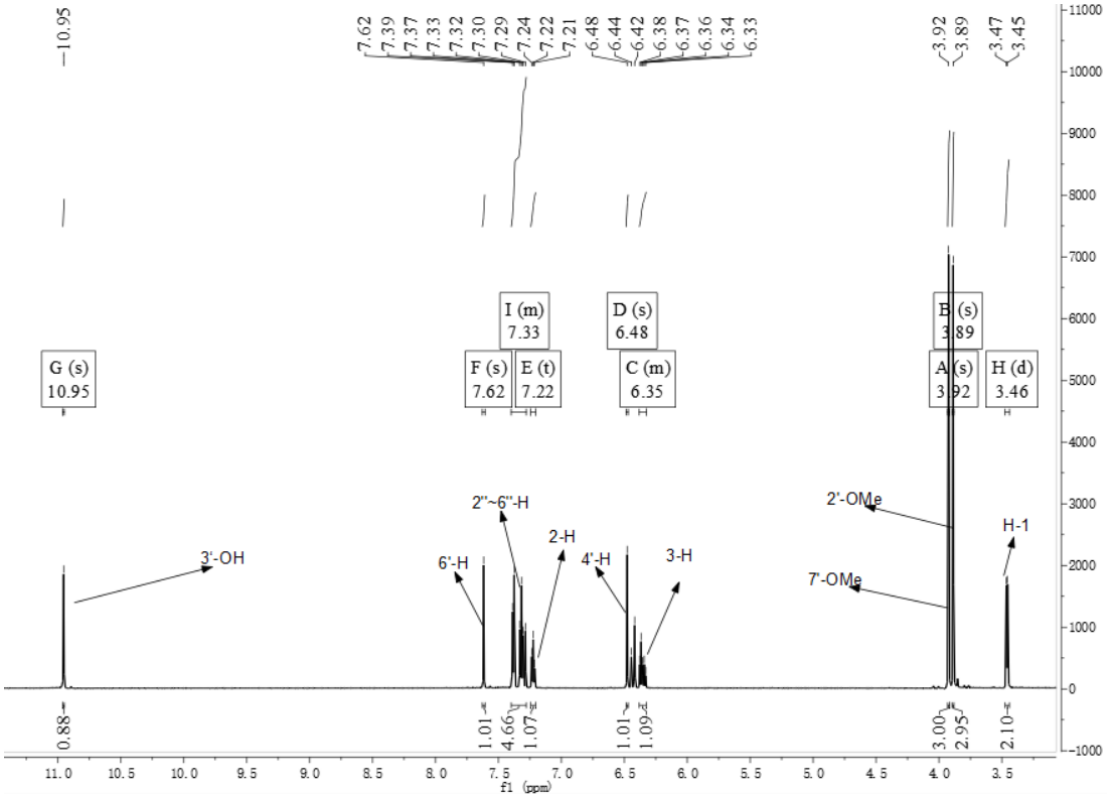


Figure S13: The labeled ^{1}H-NMR spectrum of compound **2**

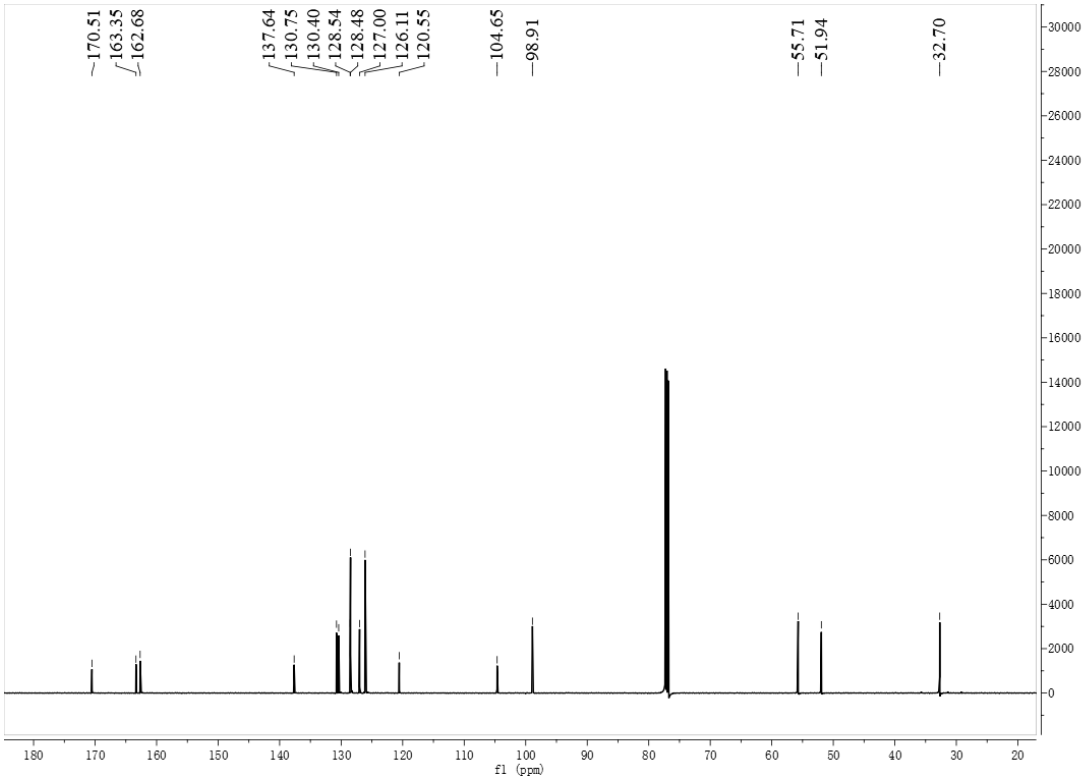


Figure S14: ^{13}C-NMR (151 MHz, $CDCl_3$-d_6) spectrum of compound **2**

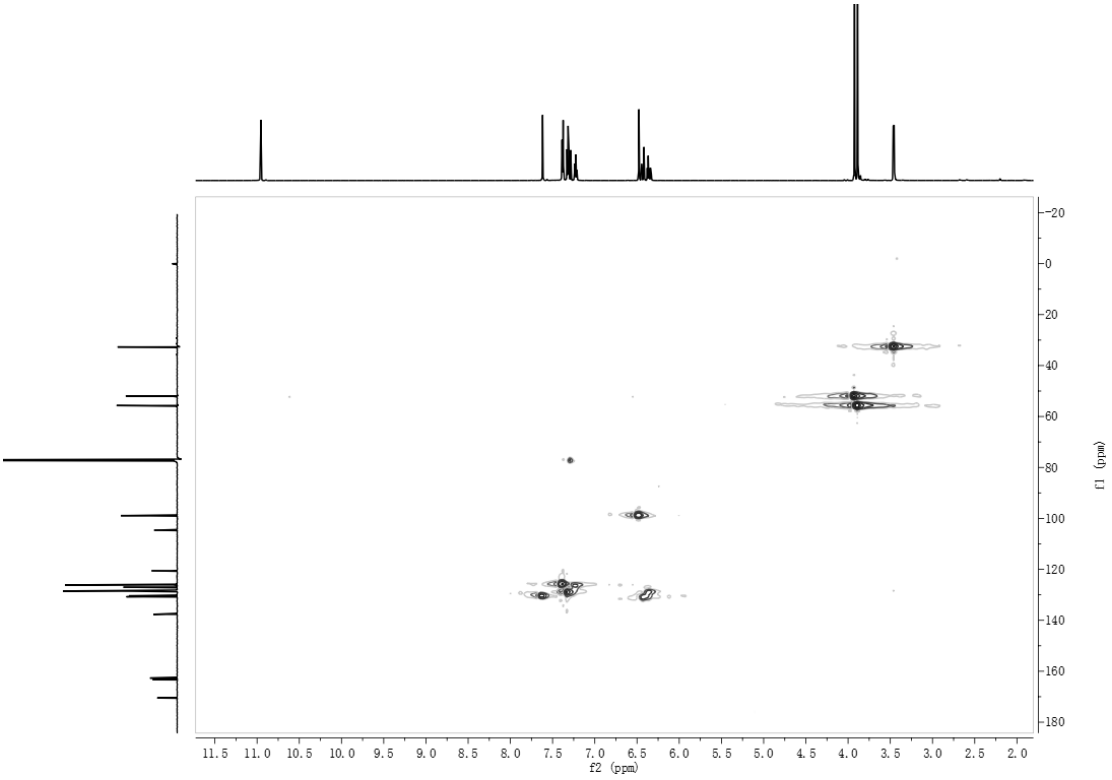


Figure S15: HSQC spectrum of compound **2**

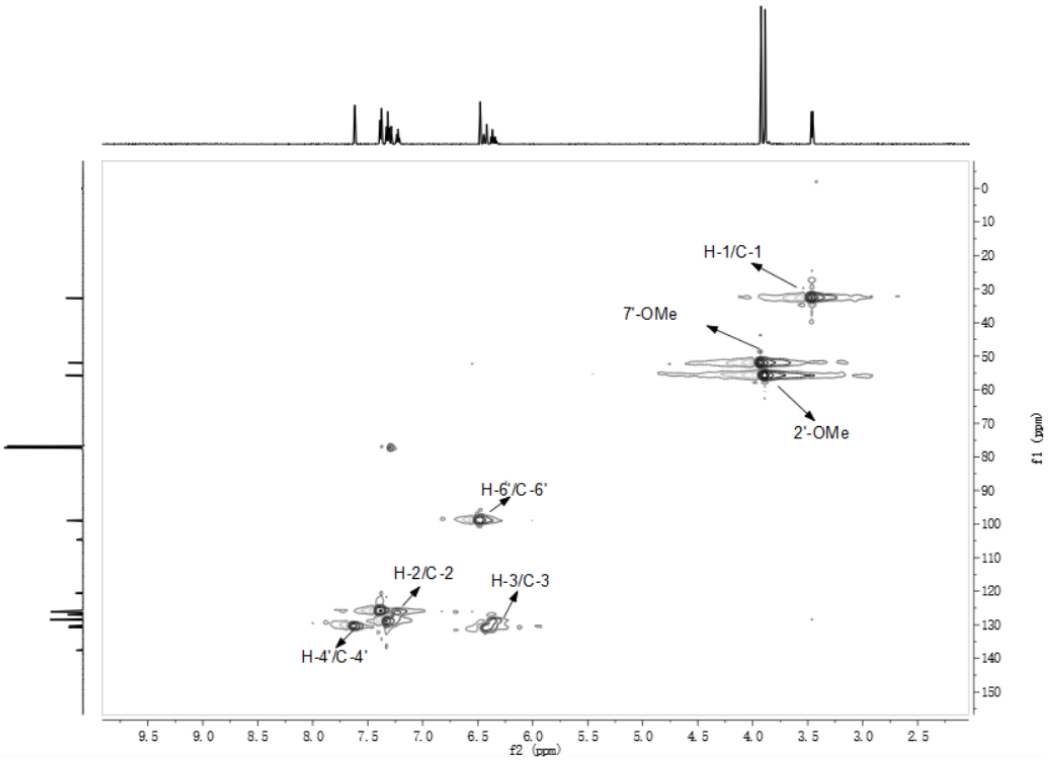


Figure S16: The labeled HSQC spectrum of compound **2**

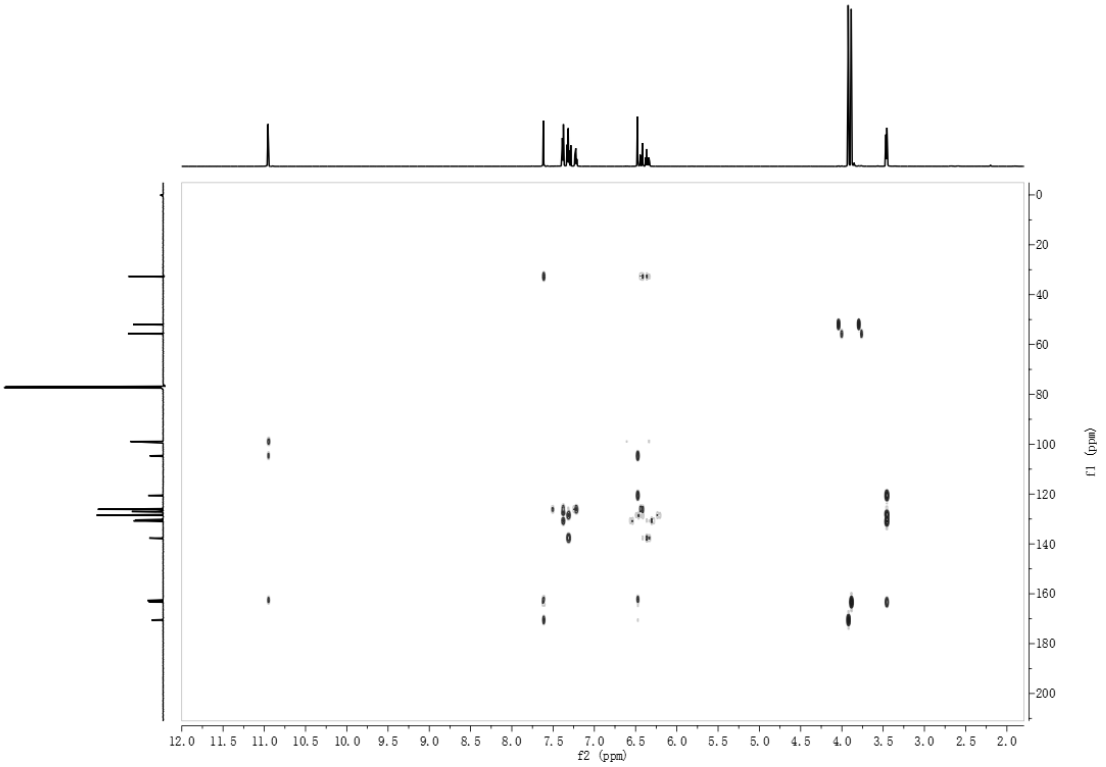


Figure S17: HMBC spectrum of compound **2**

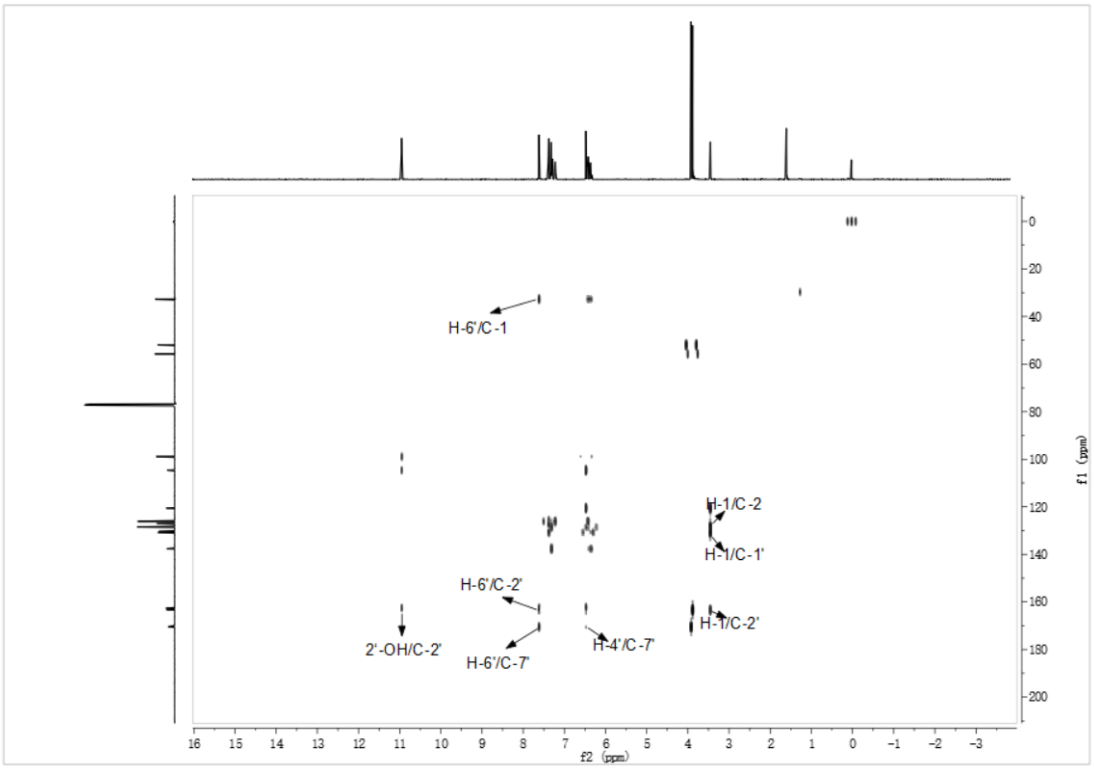


Figure S18: The labeled HMBC spectrum of compound **2**

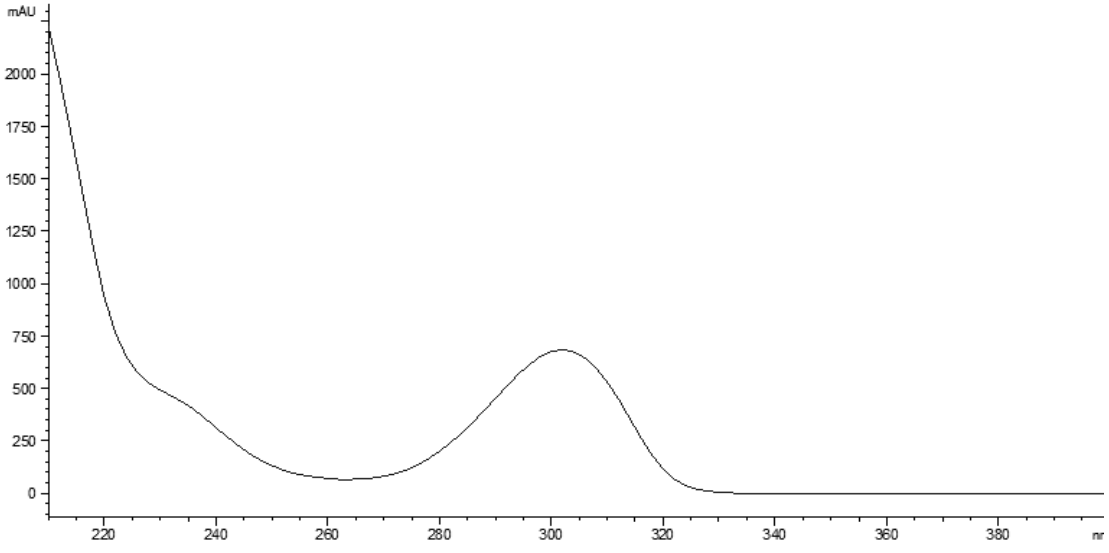


Figure S19: UV spectrum of compound **2**

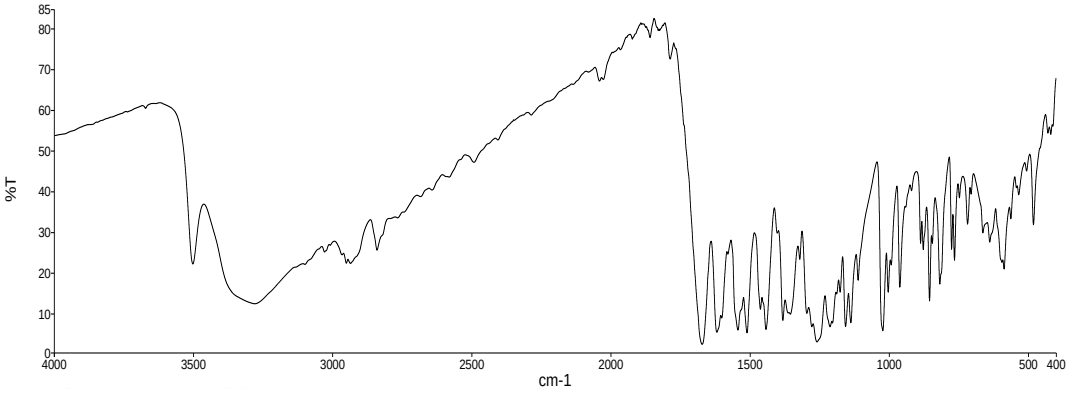


Figure S20: IR spectrum of compound **2**

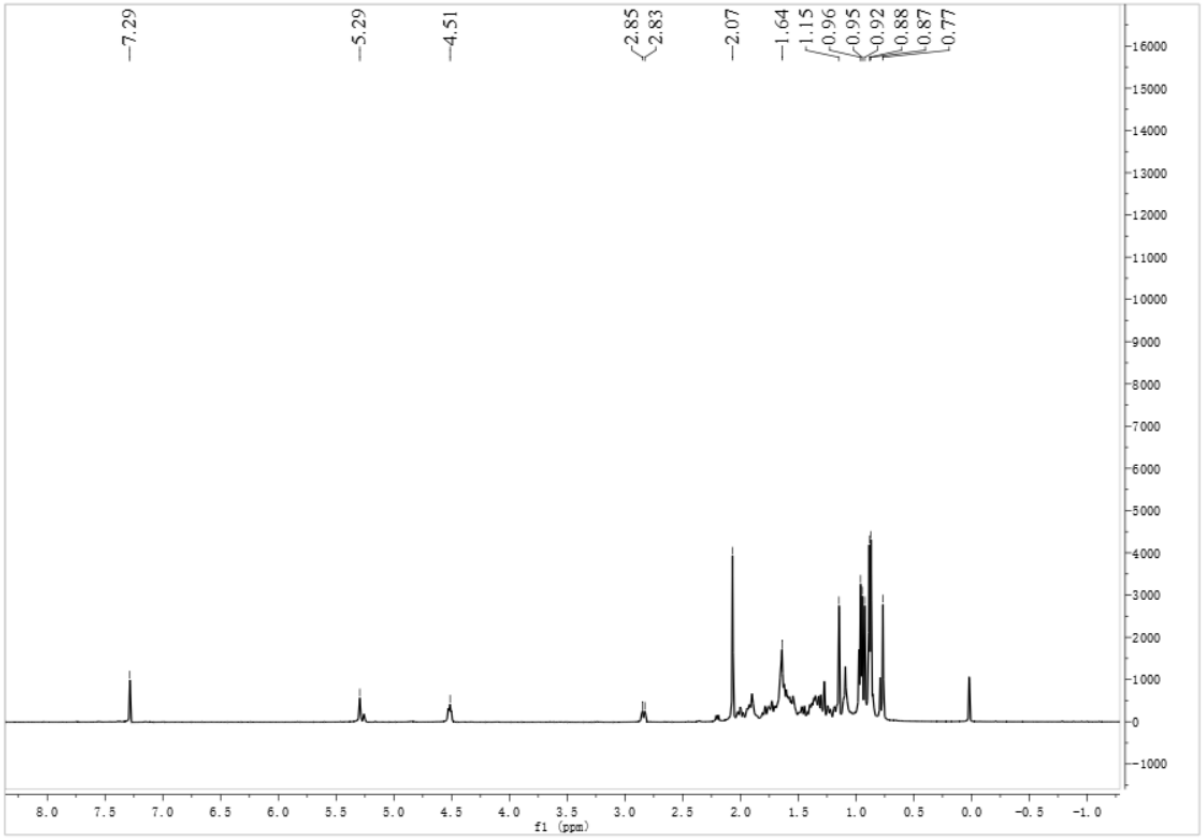


Figure S21: ^{1}H-NMR spectrum of compound **3** (600 MHz, Acetone-d_6)

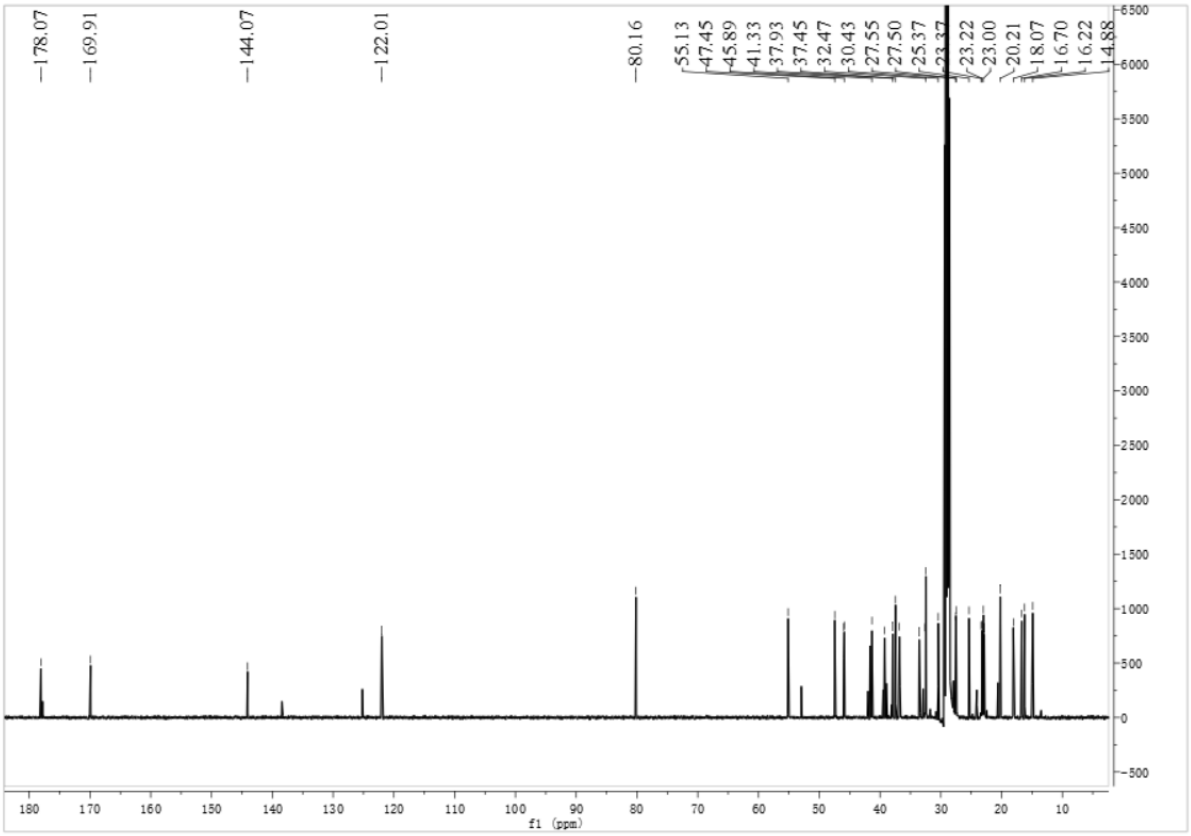


Figure S22 : ^{13}C-NMR spectra of compound compound **3** (151 MHz, Acetone-d_6)

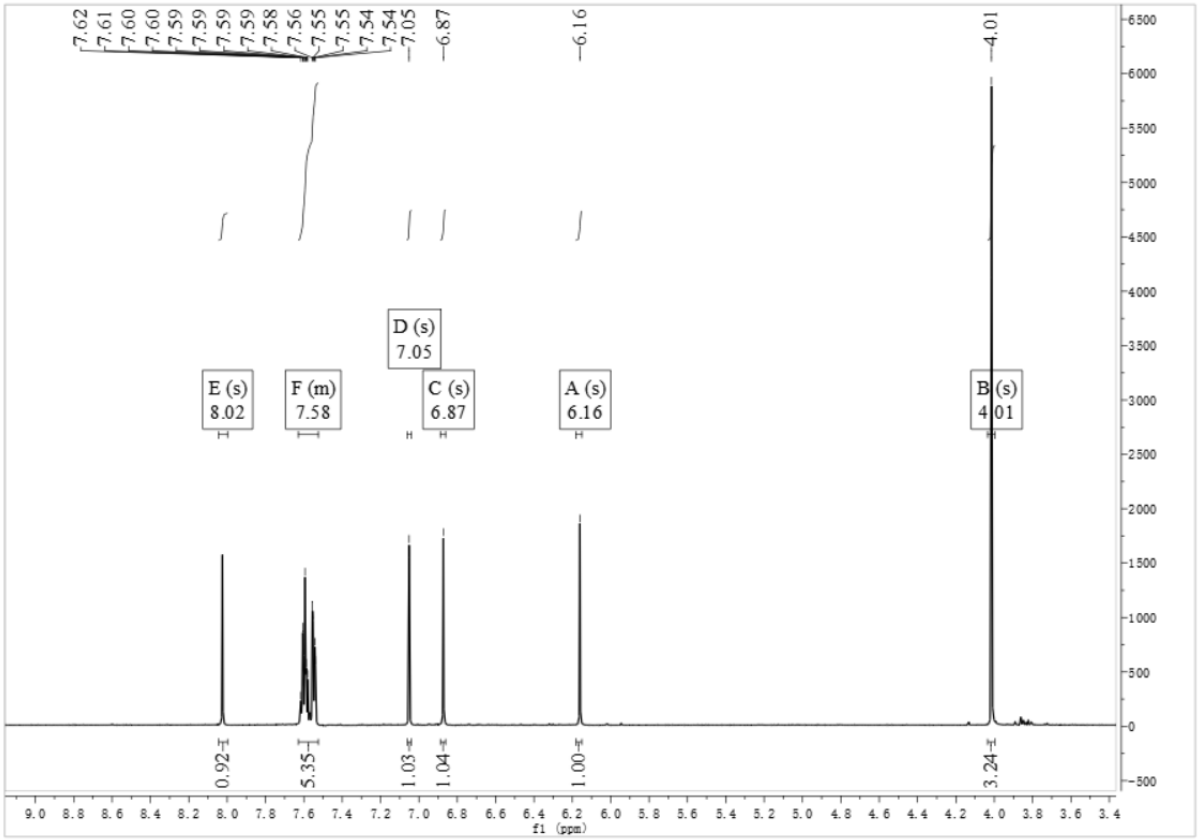


Figure S23 : ^{1}H-NMR spectra of compound **4** (600 MHz, Acetone-d_6)

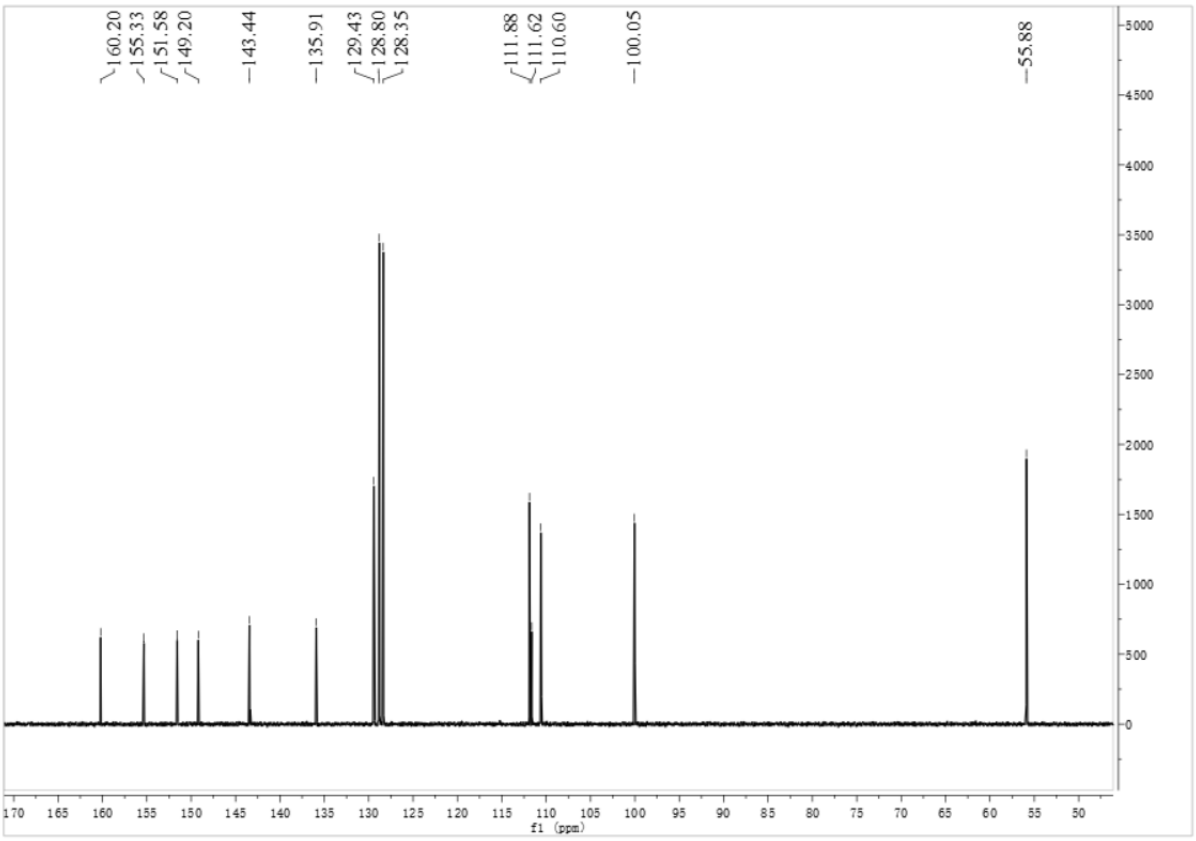


Figure S24 : ^{13}C-NMR spectra of compound **4** (600 MHz, Acetone-d_6)

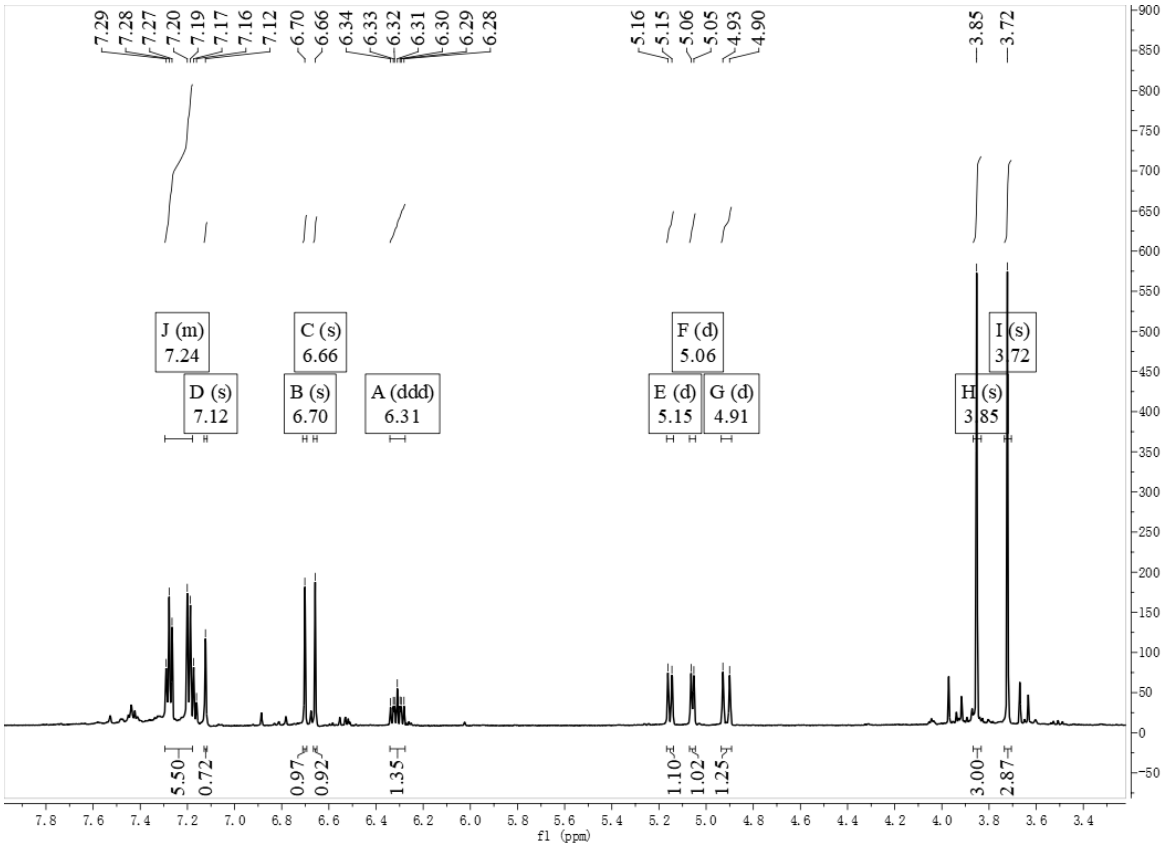


Figure S25 : ^{1}H-NMR spectra of compound **5** (600 MHz, Acetone-d_6)

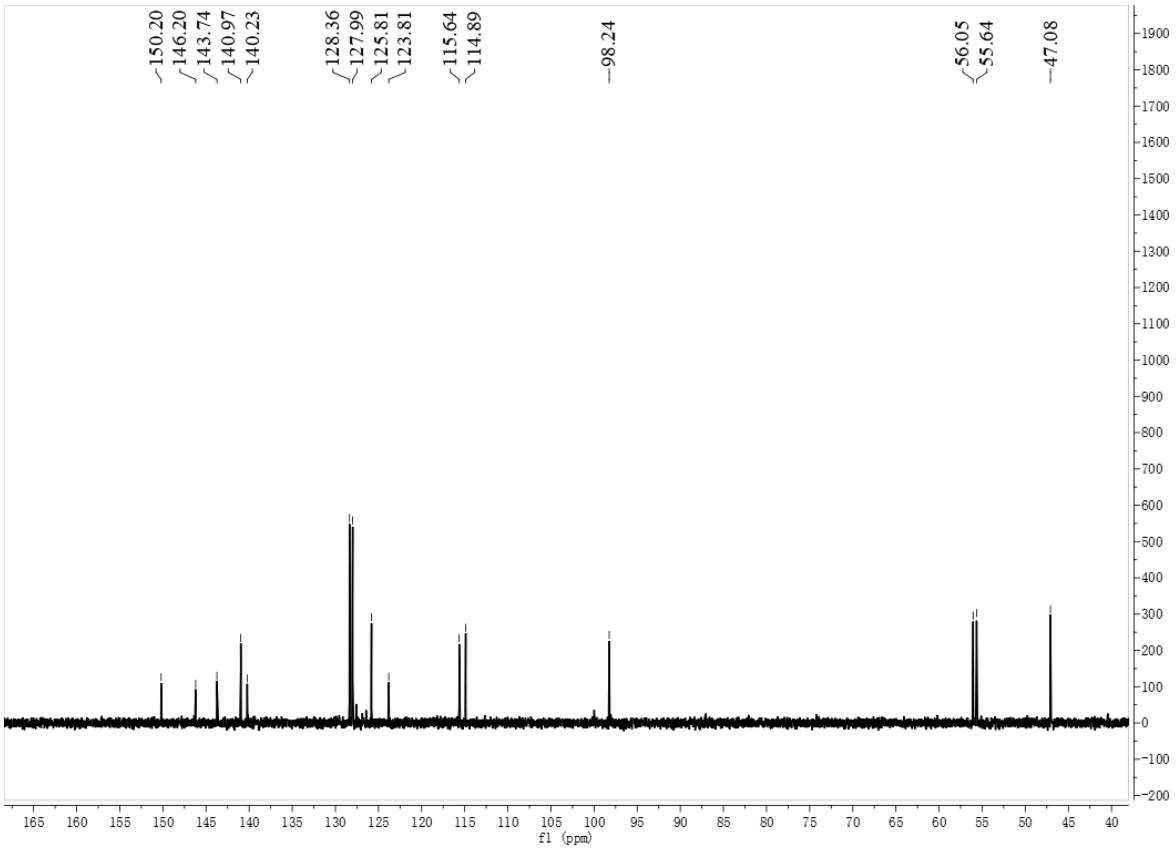


Figure S26 : ^{13}C-NMR spectra of compound **5** (151 MHz, Acetone-d_6)

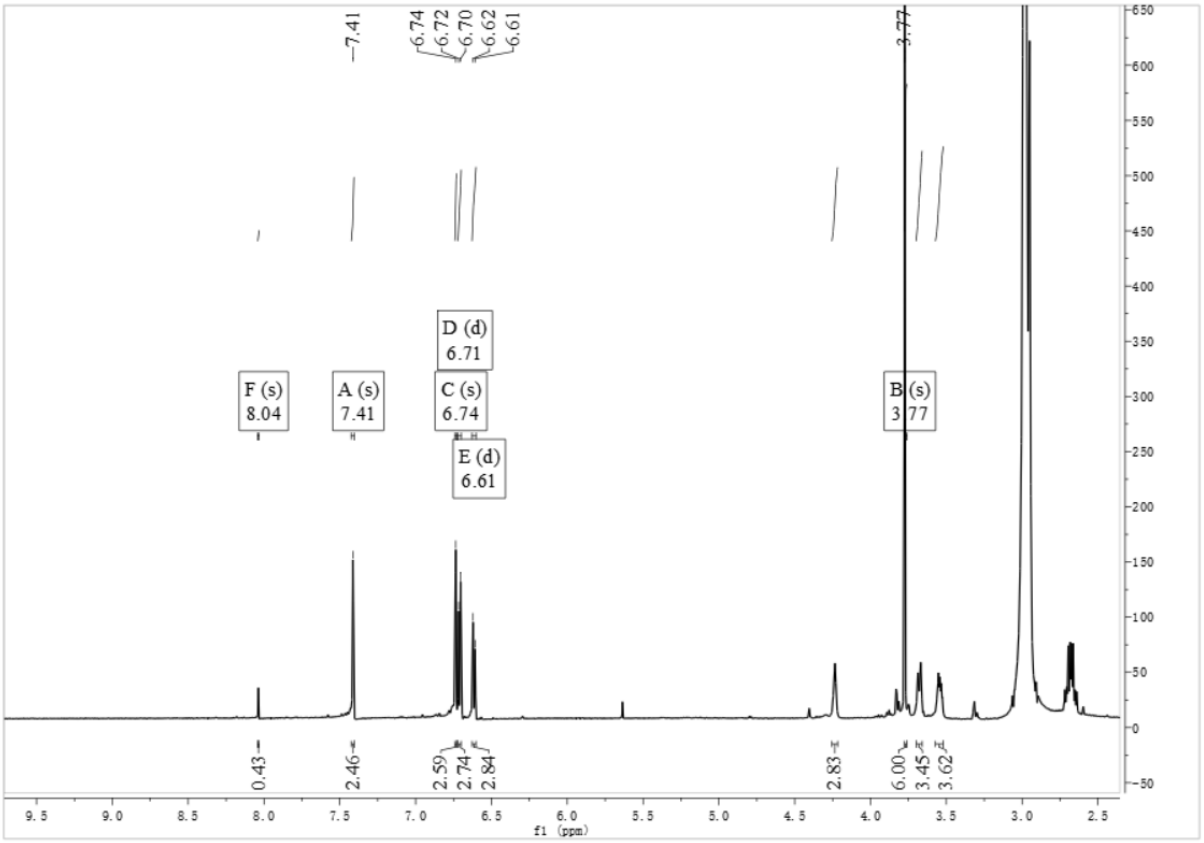


Figure S27: ^{1}H-NMR spectra of compound **6** (600 MHz, Acetone-d_6)

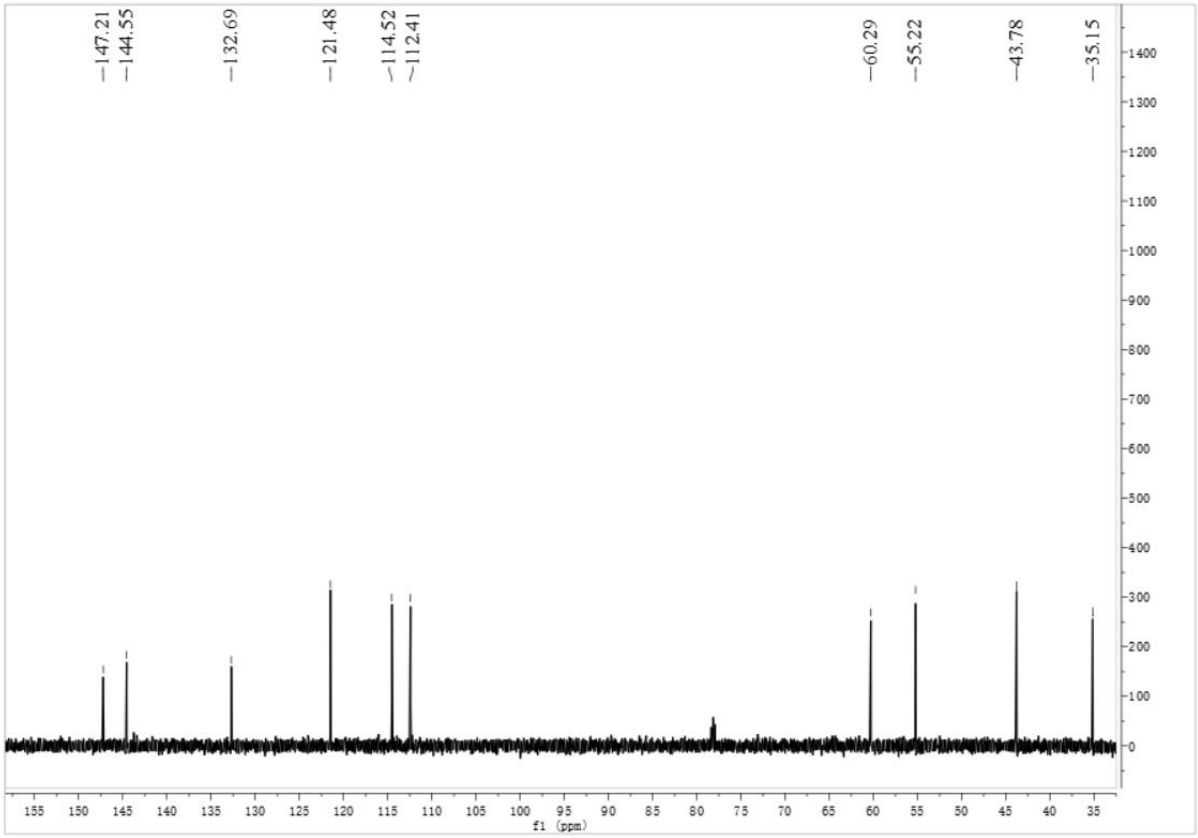


Figure S28: ^{13}C-NMR spectra of compound **6** (151 MHz, Acetone-d_6)