Support information for

Xylopsides A–D, four rare guaiane dimers with two unique bridged pentacyclic skeleton from *Xylopia vielana*

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Contents

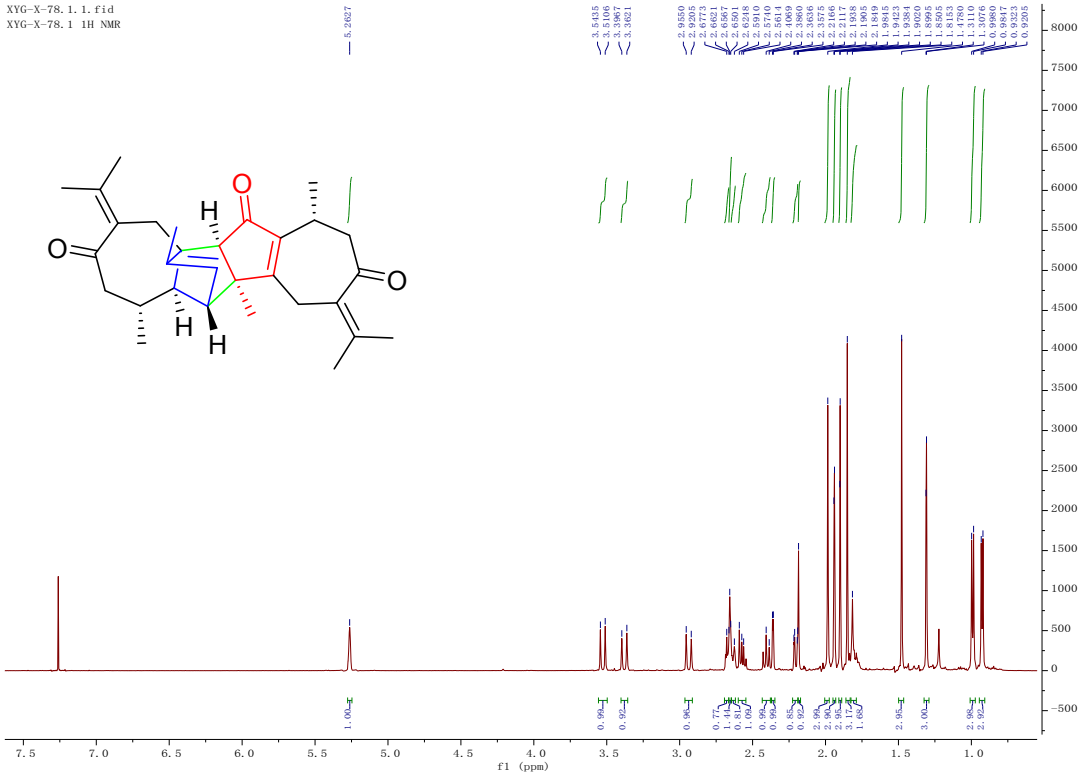


Fig. S1 ^{1}H NMR spectrum (500 MHz, Chloroform-*d*) of compound **1**

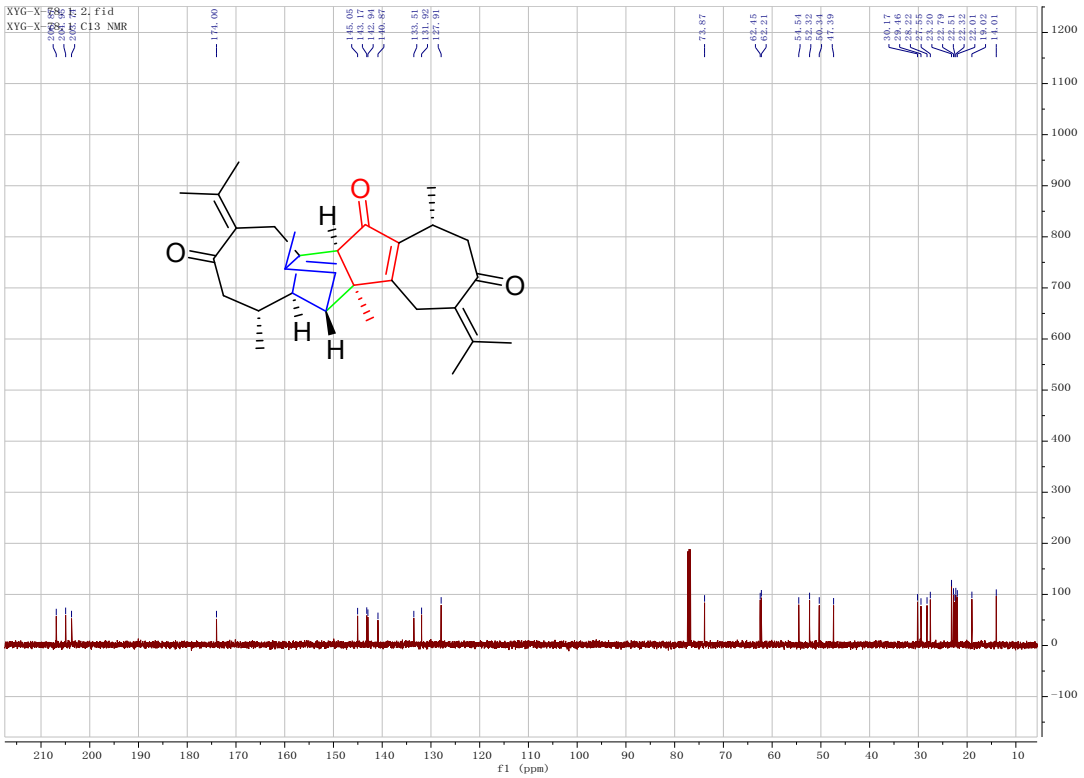


Fig. S2 ^{13}C NMR spectrum (125 MHz, Chloroform-*d*) of compound **1**

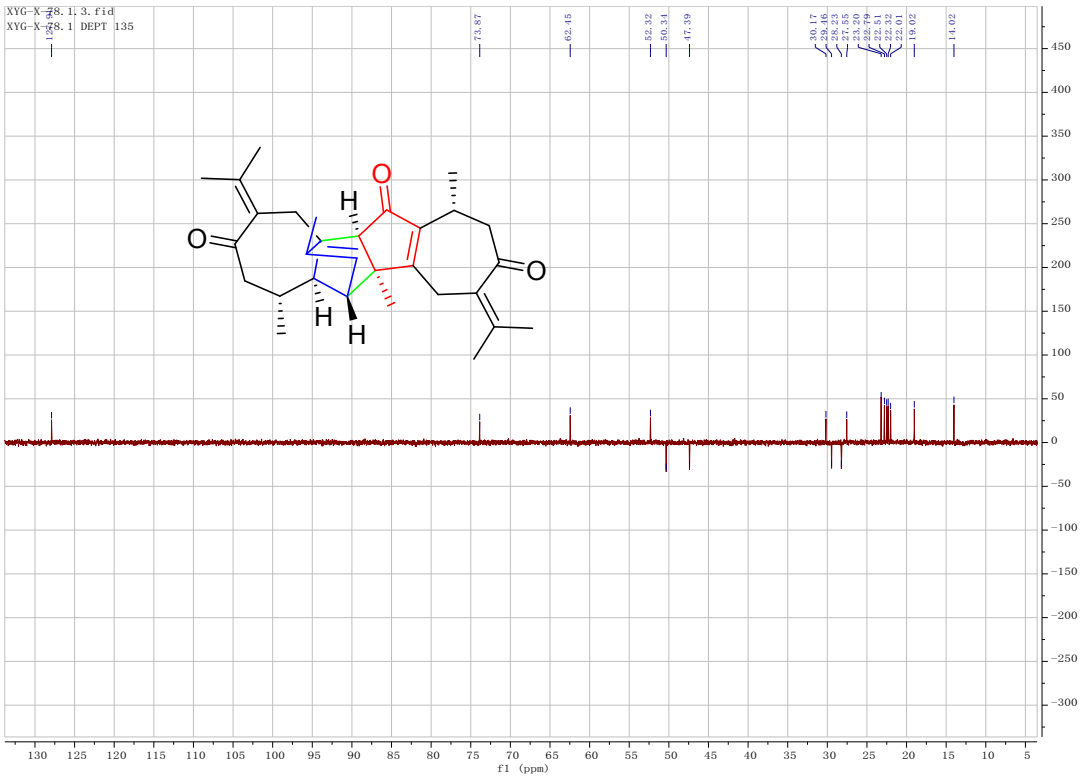


Fig. S3 DEPT spectrum (125 MHz, Chloroform-*d*) of compound **1**

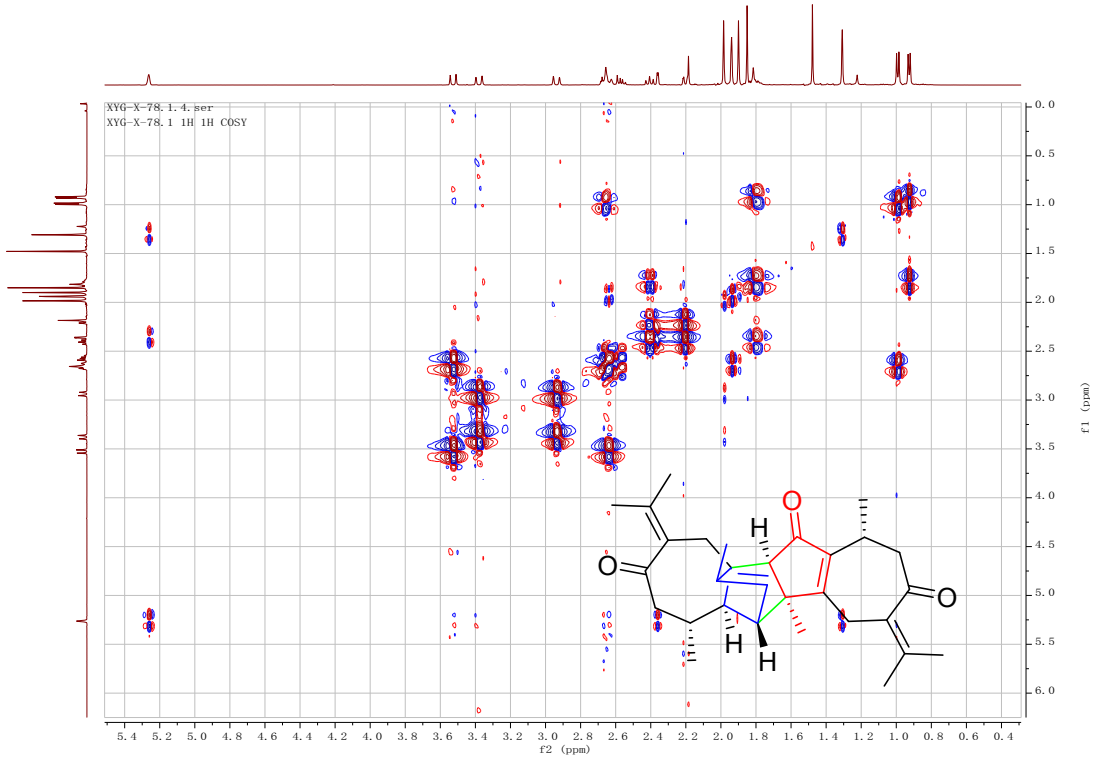


Fig. S4 ^{1}H-^{1}H COSY spectrum (500 MHz, Chloroform-*d*) of compound **1**

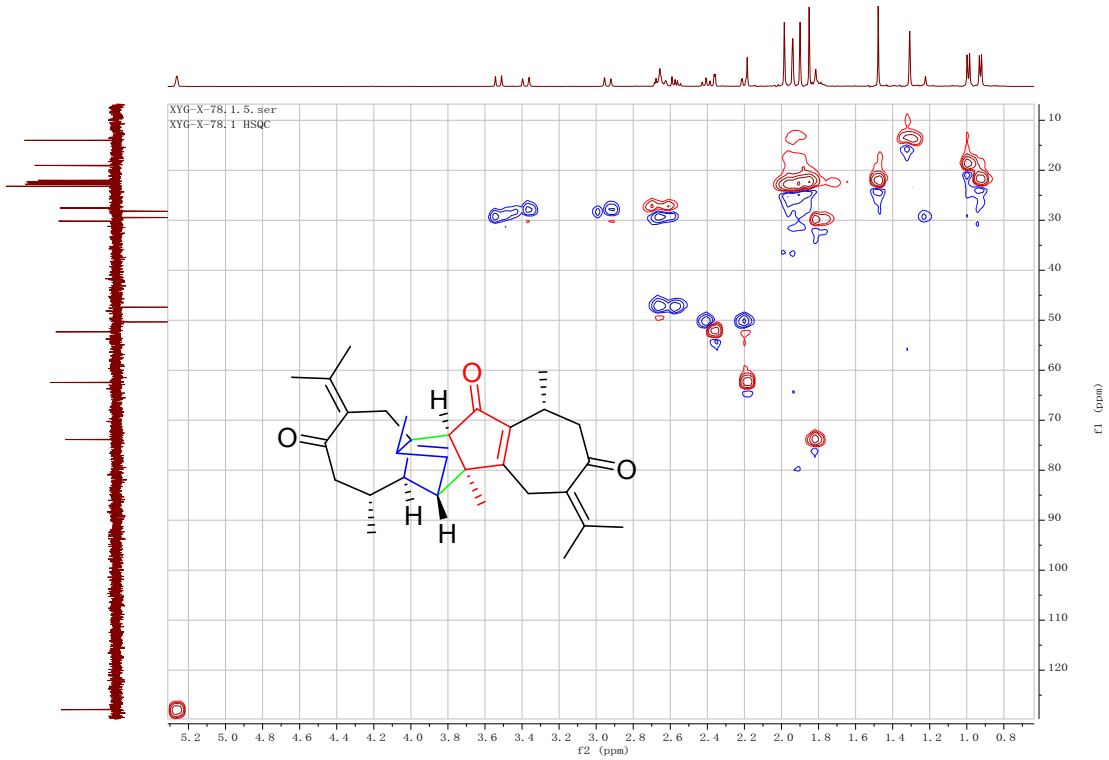


Fig. S5 HSQC spectrum (500 MHz, Chloroform-*d*) of compound **1**

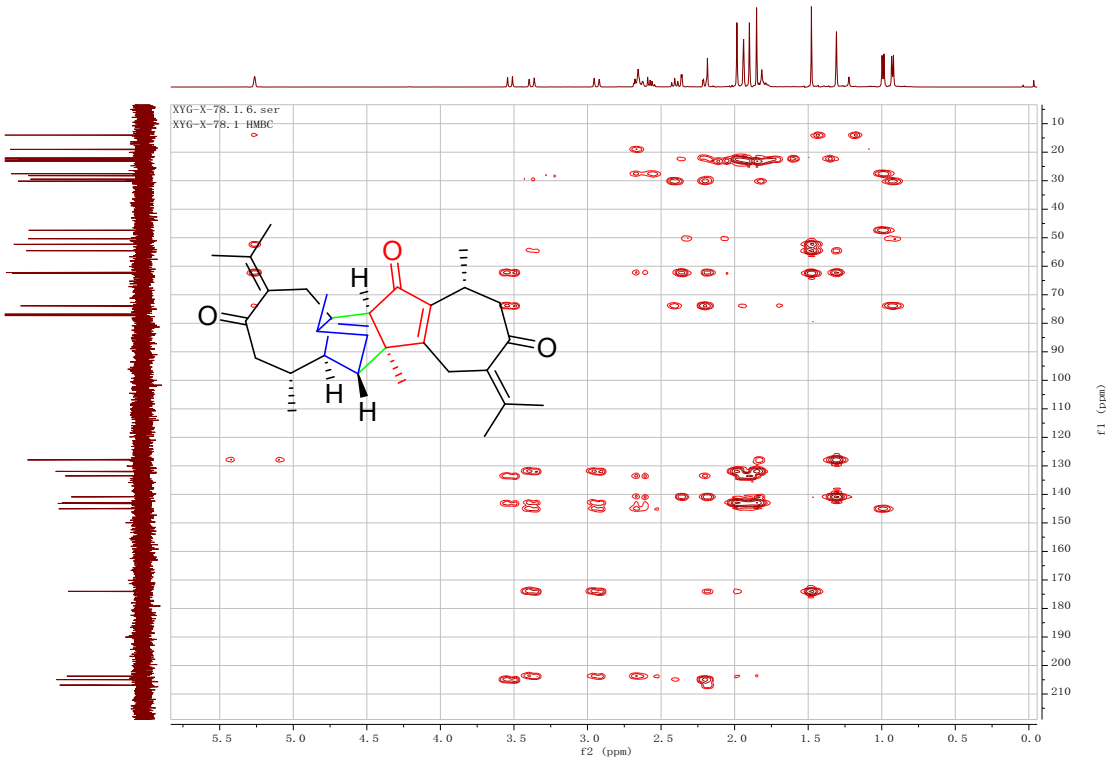


Fig. S6 HMBC spectrum (500 MHz, Chloroform-*d*) of compound **1**

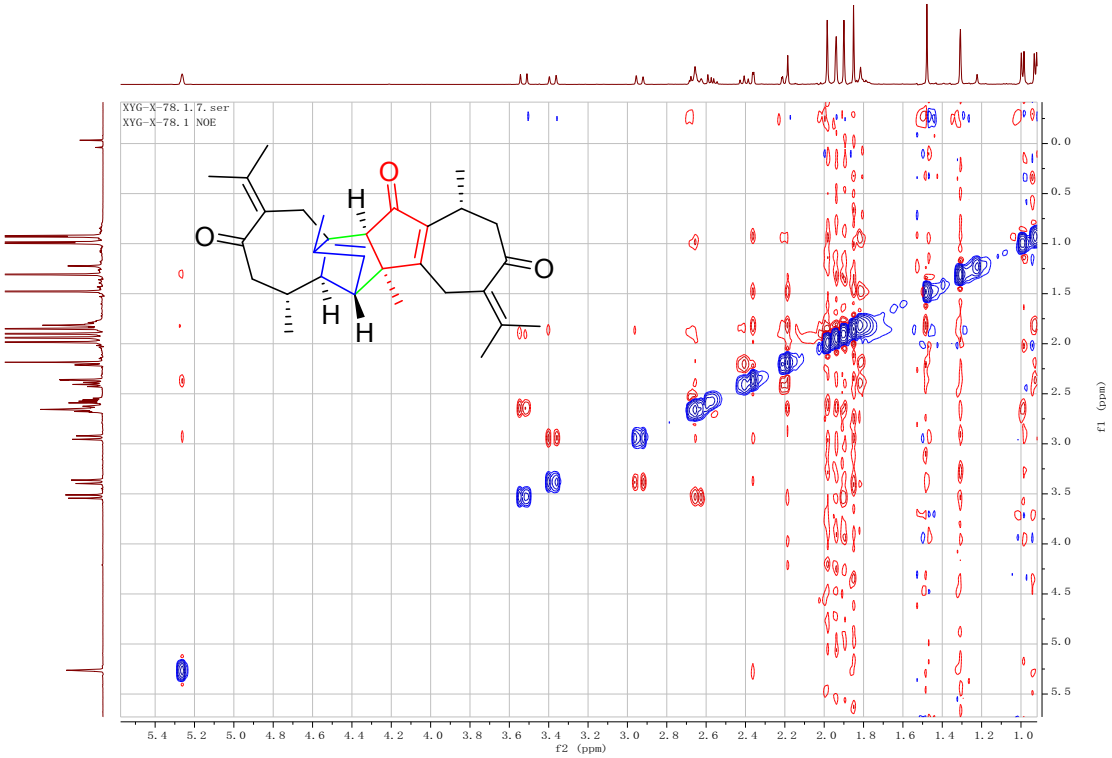
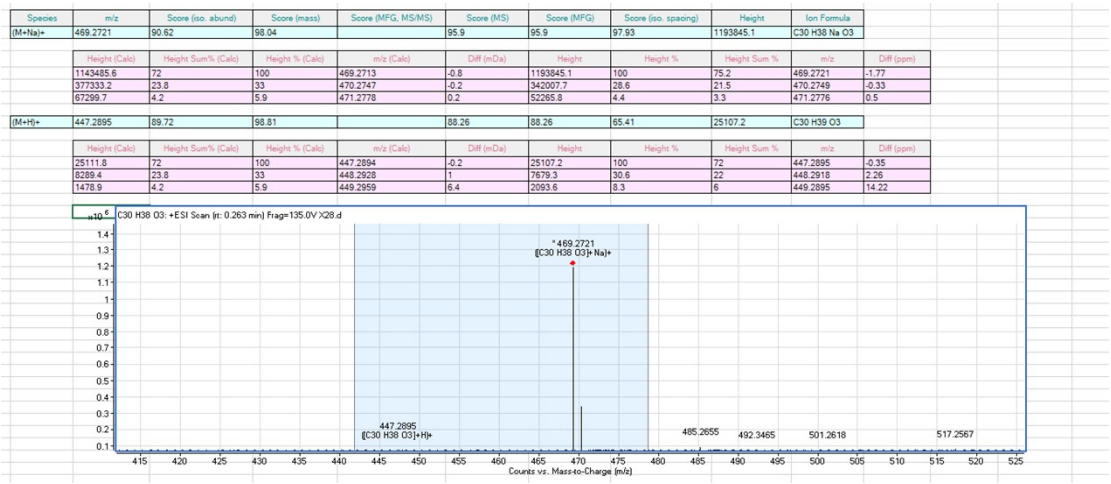


Fig. S7 NOESY spectrum (500 MHz, Chloroform-*d*) of compound **1**



Species	m/z	Score (iso. abund)	Score (mass)	Score (MFG, MS/MS)	Score (MS)	Score (MFG)	Score (iso. spacing)	Height	Ion Formula
(M+Na)+	469.2721	90.62	98.04		95.9	95.9	97.93	1193845.1	C30 H38 Na O3

Height (Calc)	Height Sum% (Calc)	Height % (Calc)	m/z (Calc)	Diff (mDa)	Height	Height %	Height Sum %	m/z	Diff (ppm)
1143485.6	72	100	469.2713	-0.8	1193845.1	100	75.2	469.2721	-1.77
377333.2	23.8	33	470.2747	-0.2	342007.7	28.6	21.5	470.2749	-0.33
67299.7	4.2	5.9	471.2778	0.2	52265.8	4.4	3.3	471.2776	0.5

(M+H)+	447.2895	89.72	98.81		88.26	88.26	65.41	25107.2	C30 H39 O3

Height (Calc)	Height Sum% (Calc)	Height % (Calc)	m/z (Calc)	Diff (mDa)	Height	Height %	Height Sum %	m/z	Diff (ppm)
25111.8	72	100	447.2894	-0.2	25107.2	100	72	447.2895	-0.35
8289.4	23.8	33	448.2928	1	7679.3	30.6	22	448.2918	2.26
1478.9	4.2	5.9	449.2959	6.4	2093.6	8.3	6	449.2895	14.22

Fig. S8 HR-ESI-MSspectrum of compound **1**

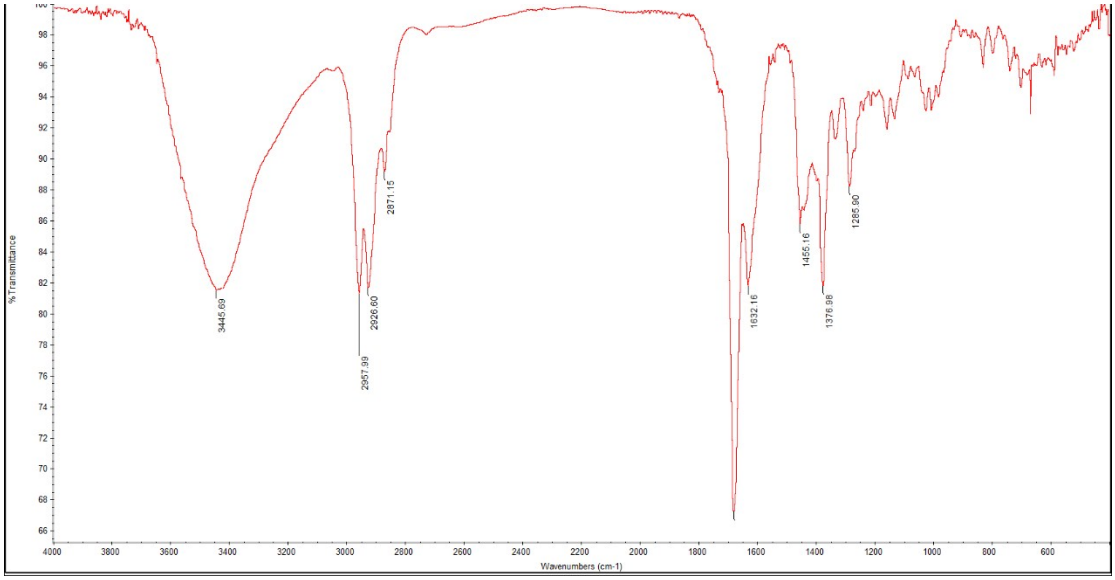


Fig. S9 IR (KBr disc) spectrum of compound **1**

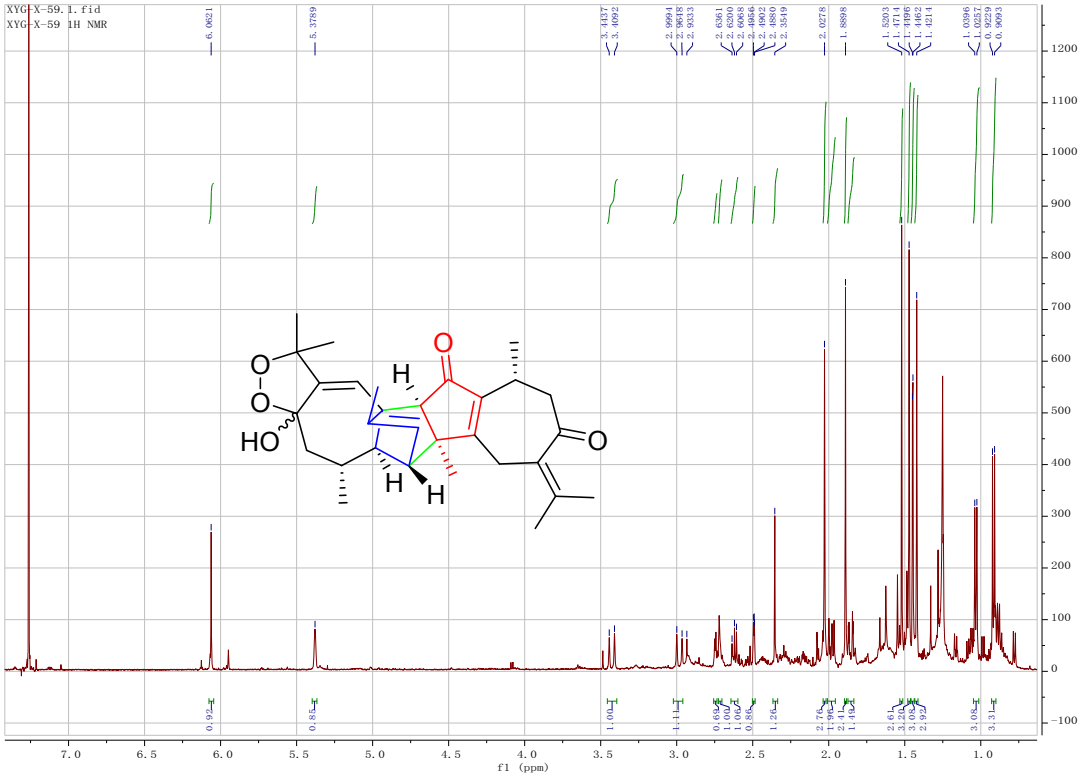


Fig. S10 ^{1}H NMR spectrum (500 MHz, Chloroform-*d*) of compound **2**

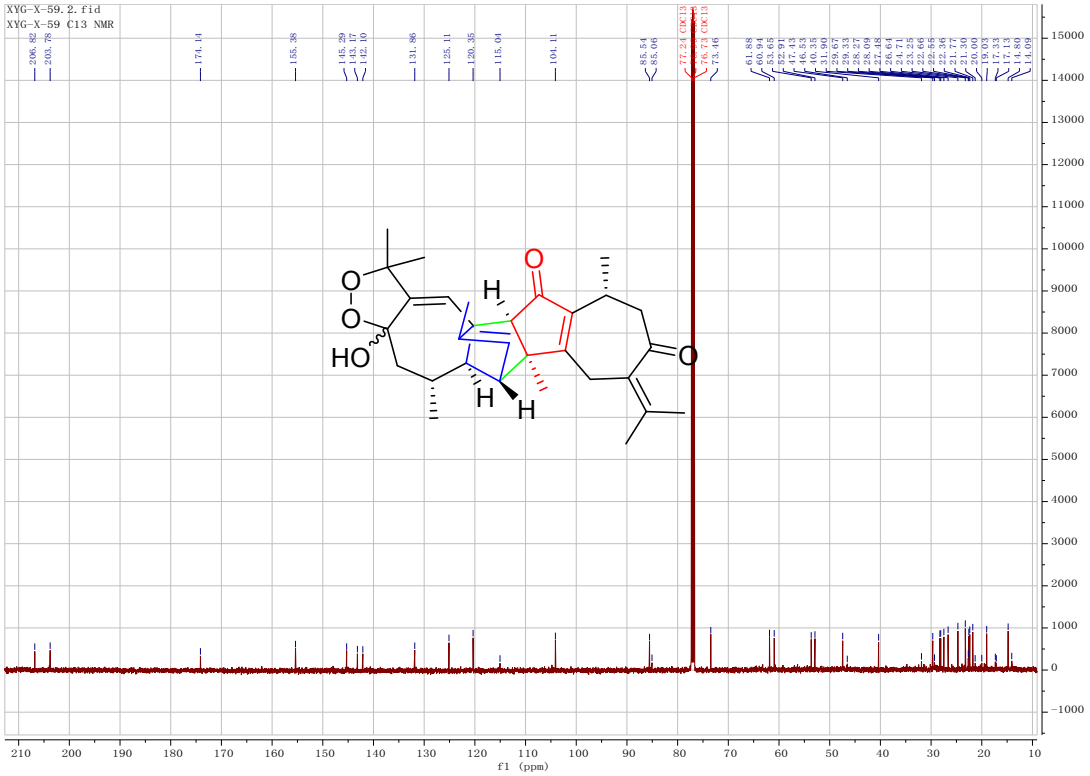


Fig. S11 ^{13}C NMR spectrum (125 MHz, Chloroform-*d*) of compound **2**

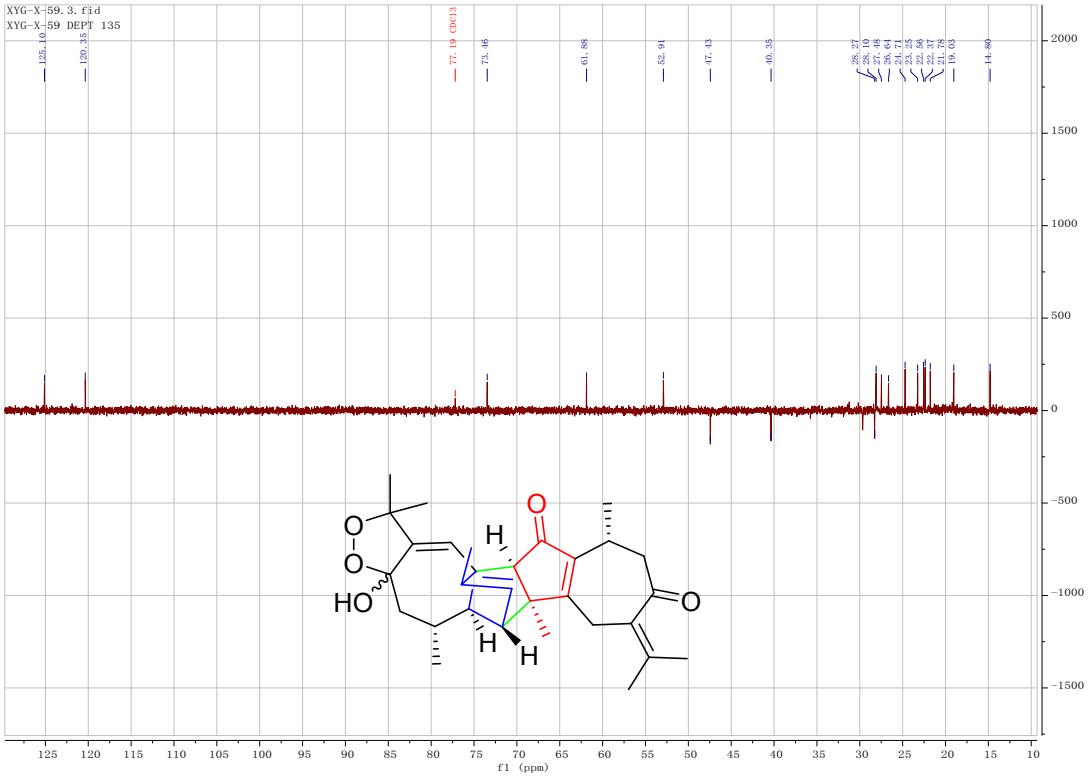


Fig. S12 DEPT spectrum (125 MHz, Chloroform-*d*) of compound **2**

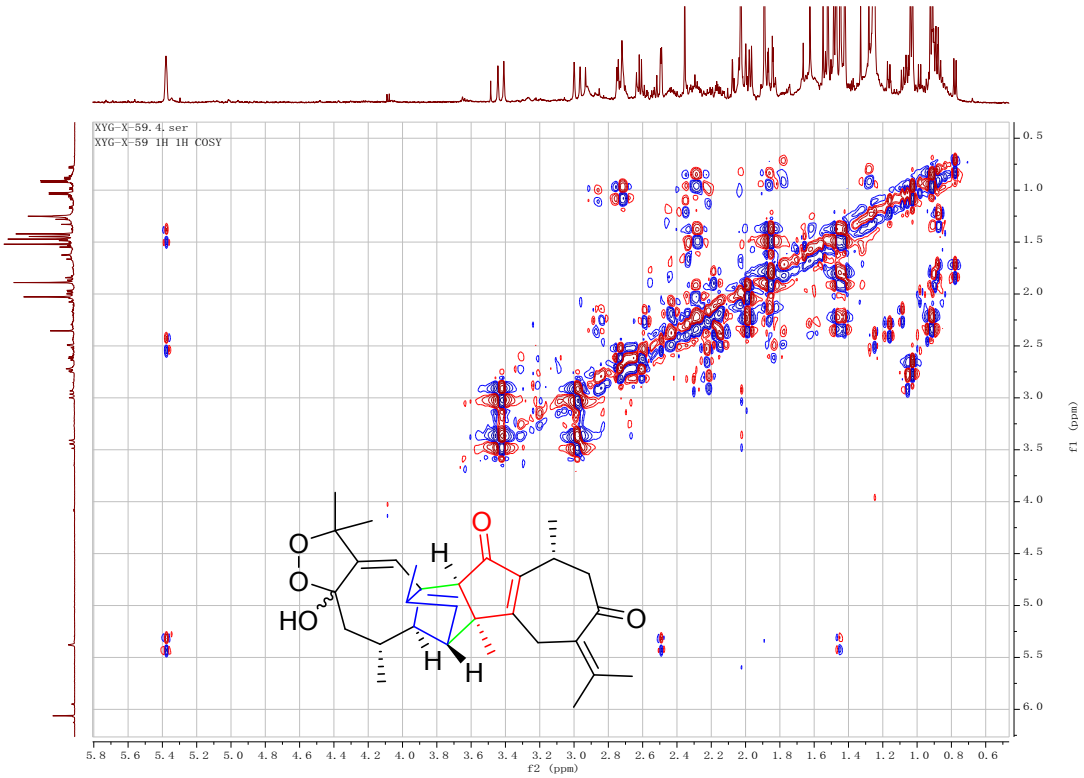


Fig. S13 ^{1}H-^{1}H COSY spectrum (500 MHz, Chloroform-*d*) of compound **2**

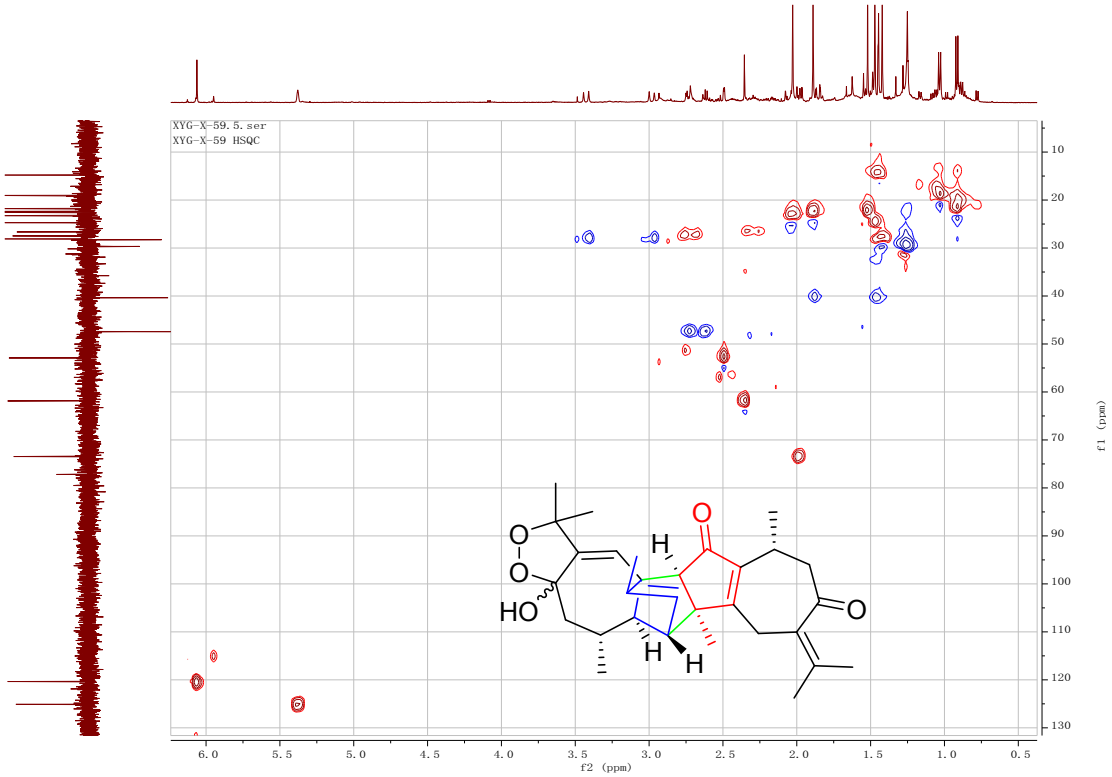


Fig. S14 HSQC spectrum (500 MHz, Chloroform-*d*) of compound **2**

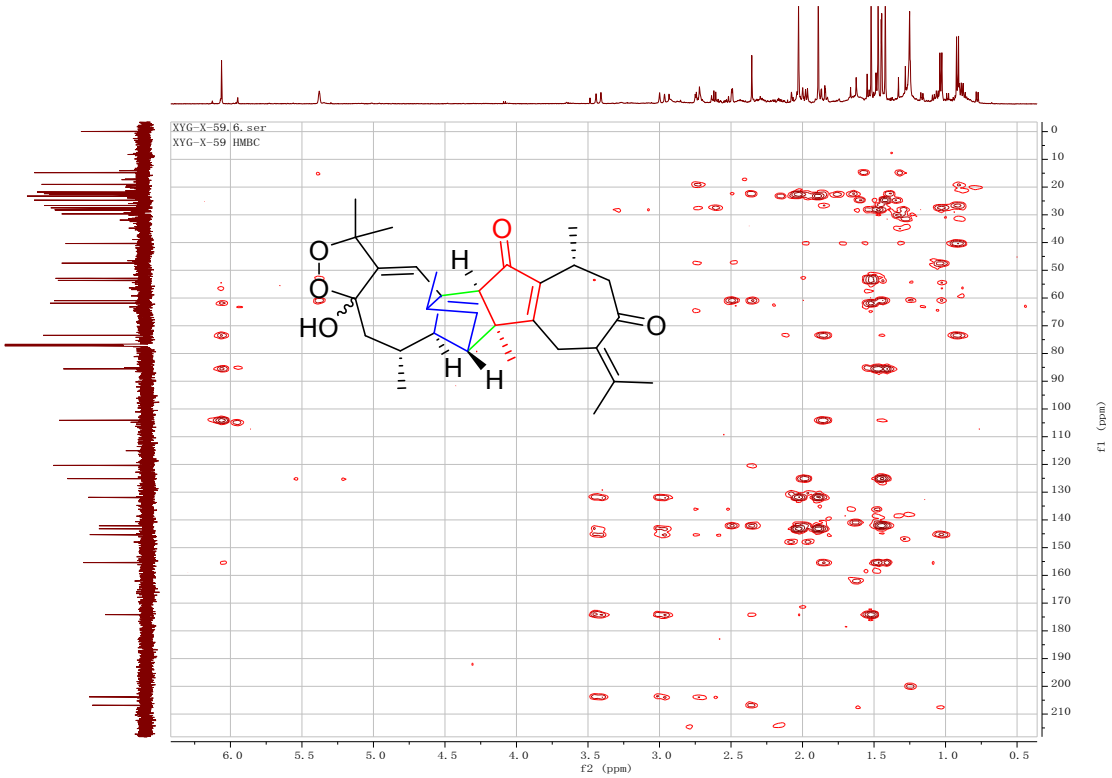


Fig. S15 HMBC spectrum (500 MHz, Chloroform-*d*) of compound **2**

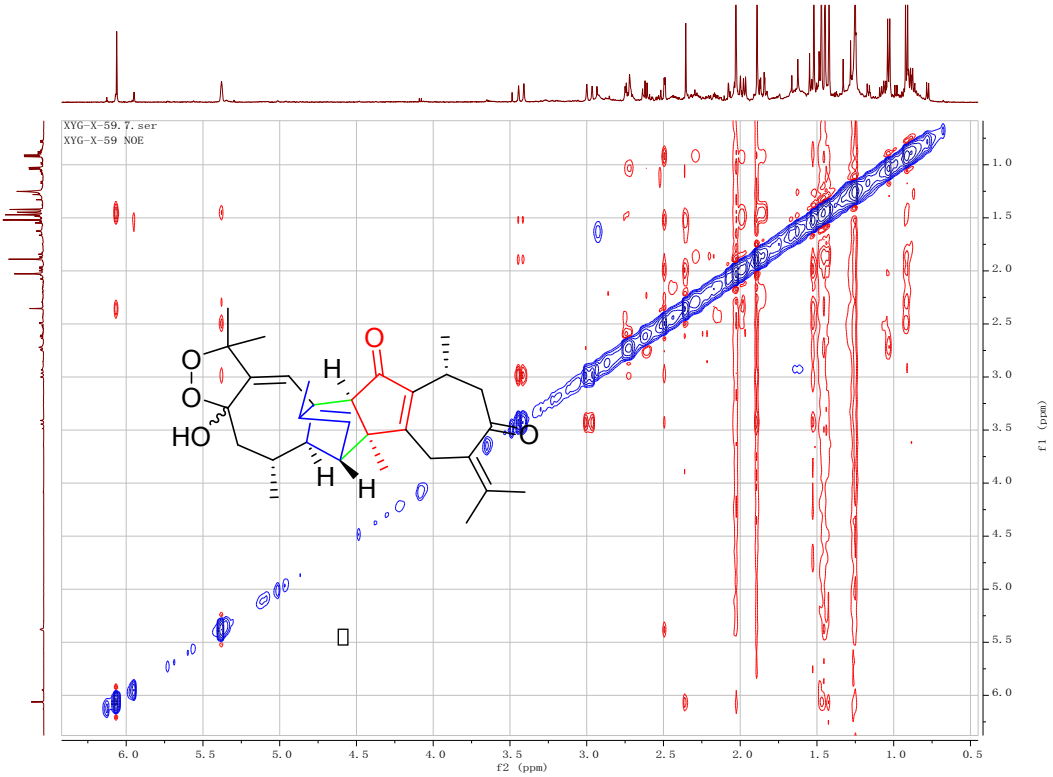


Fig. S16 NOESY spectrum (500 MHz, Chloroform-*d*) of compound **2**

Fig. S17 HR-ESI-MSspectrum of compound **2**

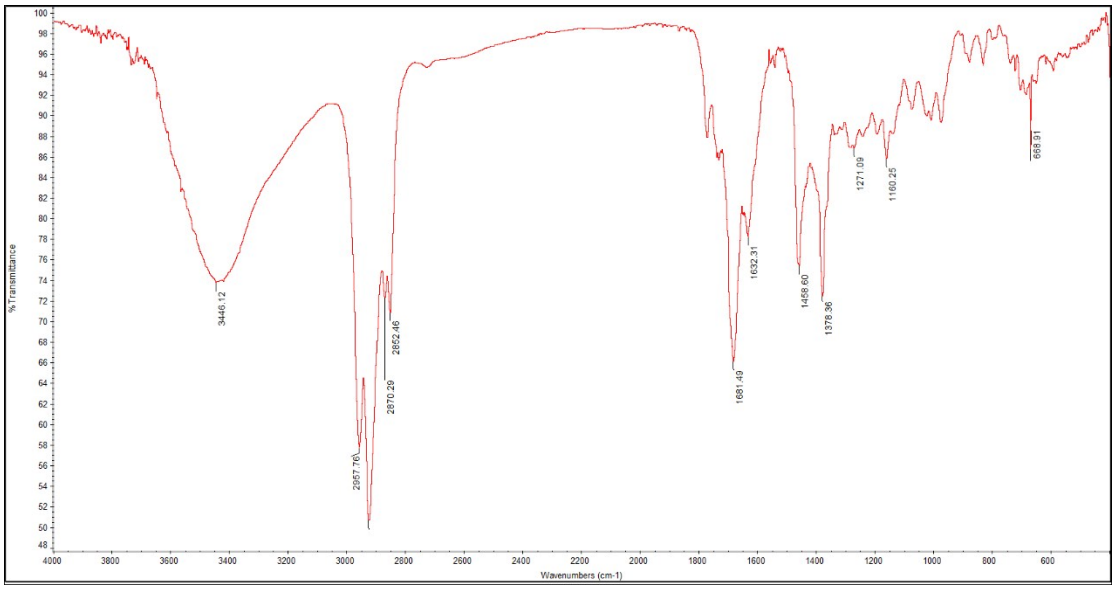


Fig. S18 IR (KBr disc) spectrum of compound **2**

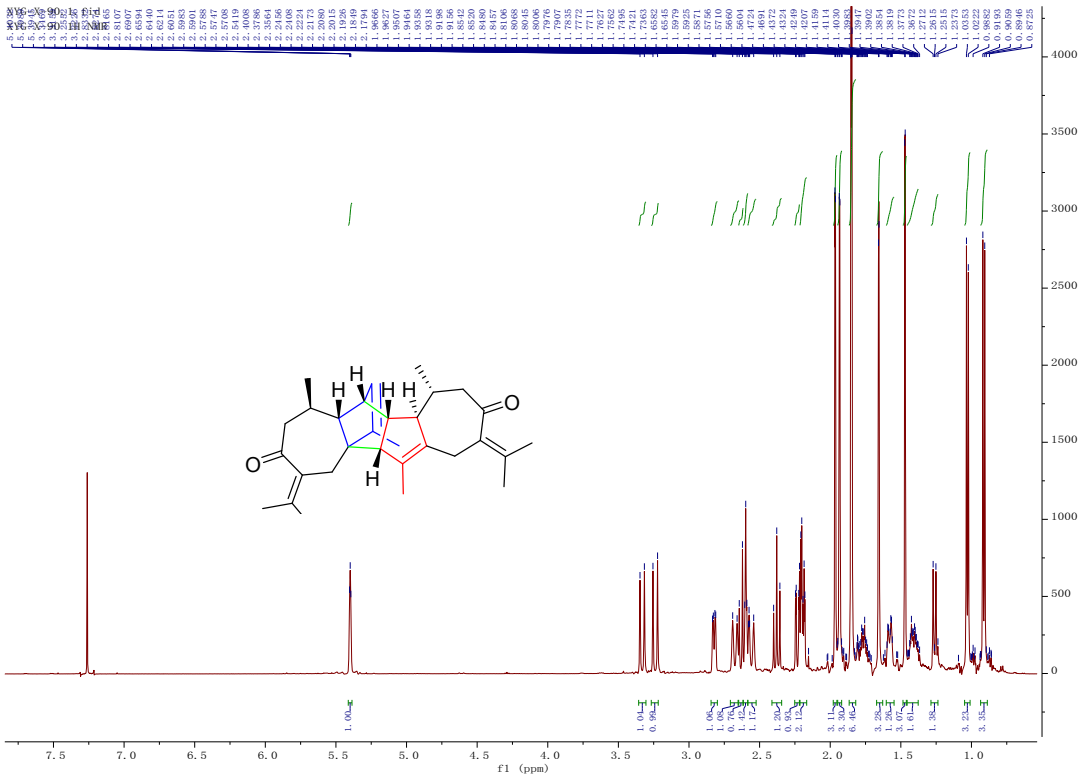


Fig. S19 ^{1}H NMR spectrum (500 MHz, Chloroform-*d*) of compound **3**

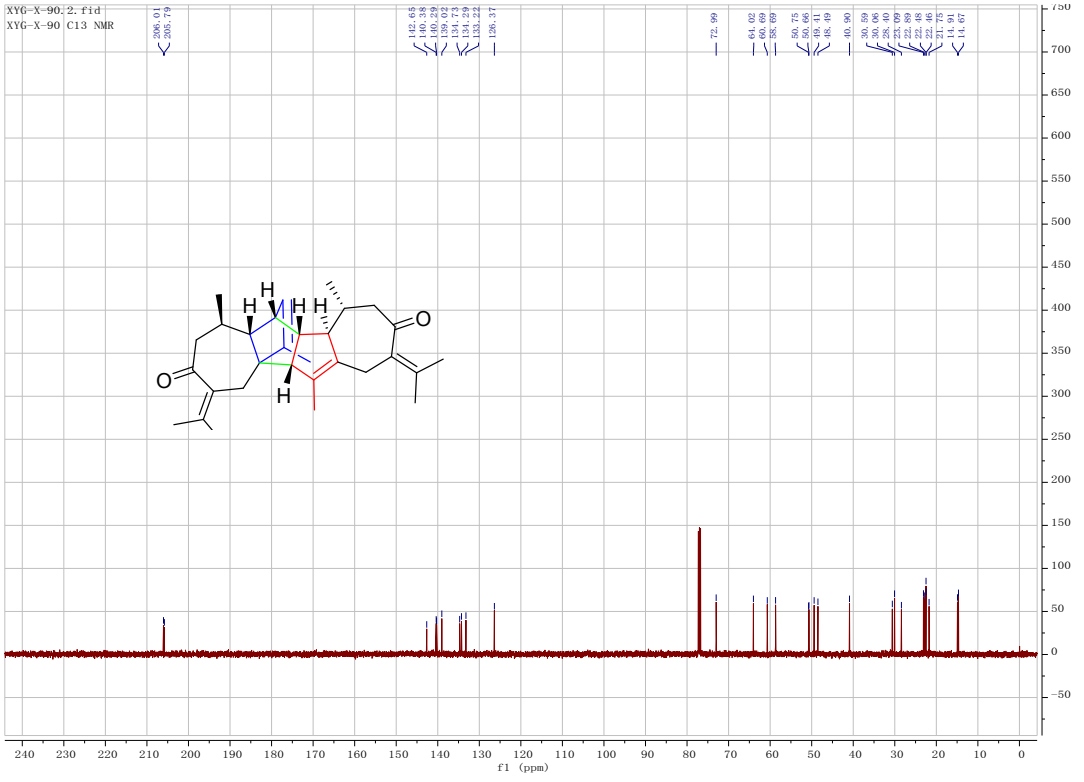


Fig. S20 ^{13}C NMR spectrum (125 MHz, Chloroform-*d*) of compound **3**

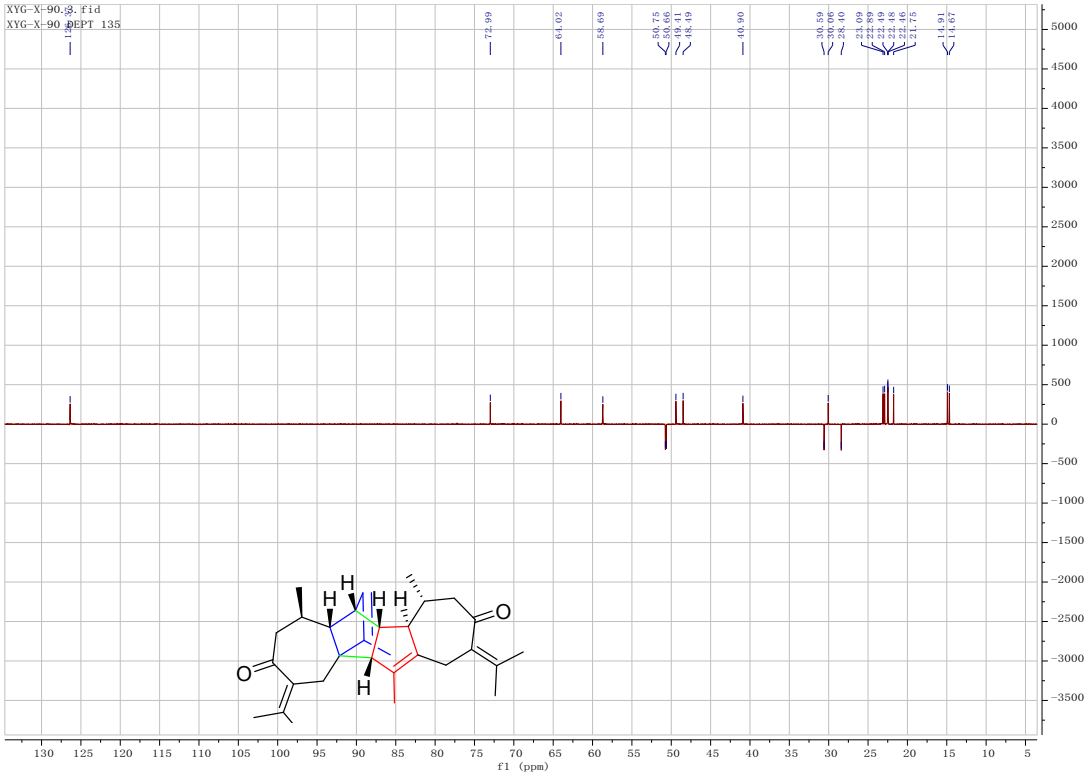


Fig. S21 DEPT spectrum (125 MHz, Chloroform-*d*) of compound **3**

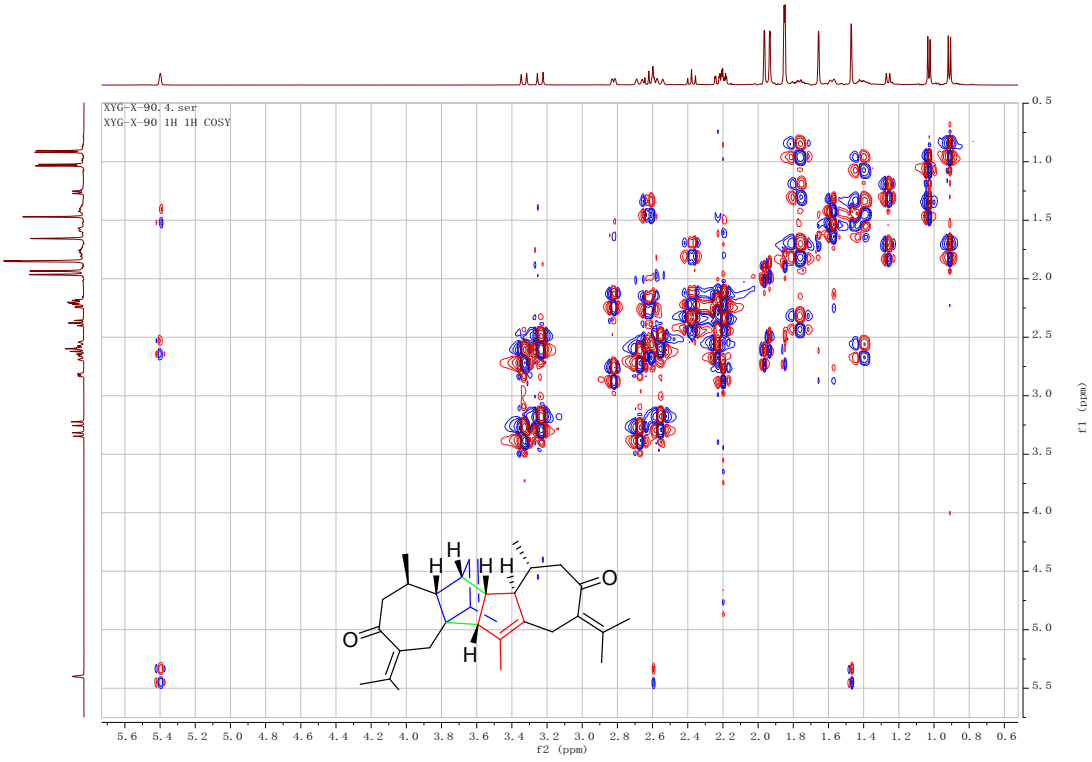


Fig. S22 ^{1}H-^{1}H COSY spectrum (500 MHz, Chloroform-*d*) of compound **3**

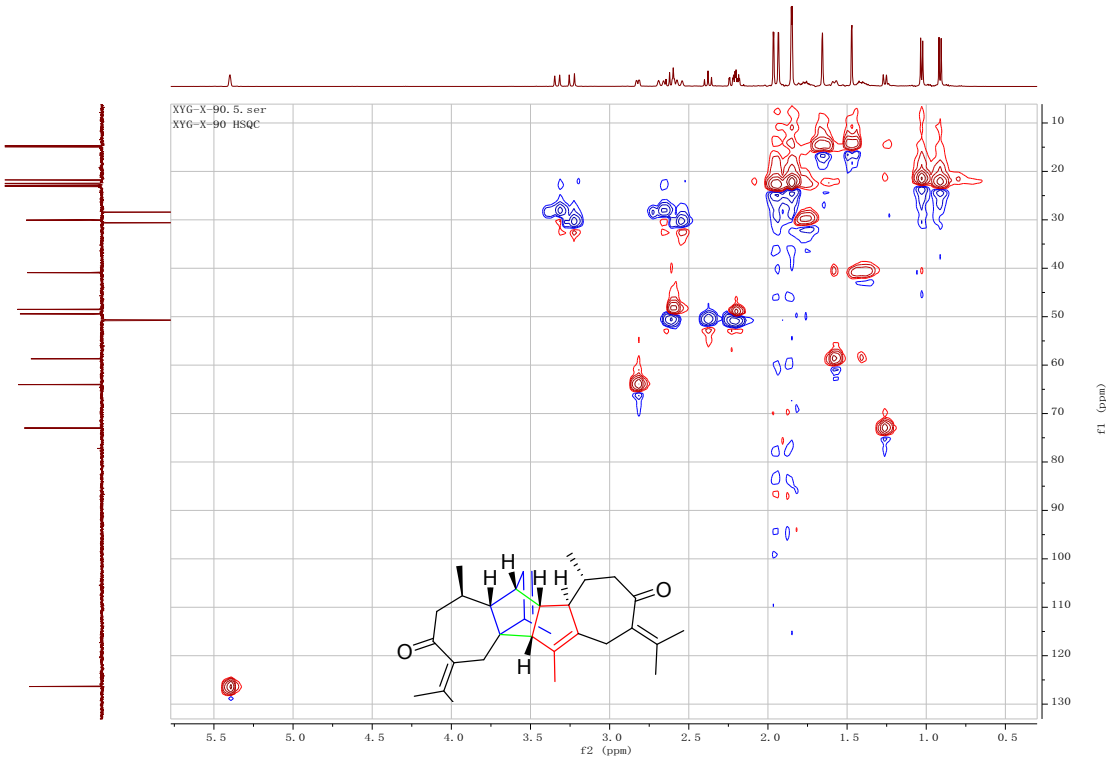


Fig. S23 HSQC spectrum (500 MHz, Chloroform-*d*) of compound **3**

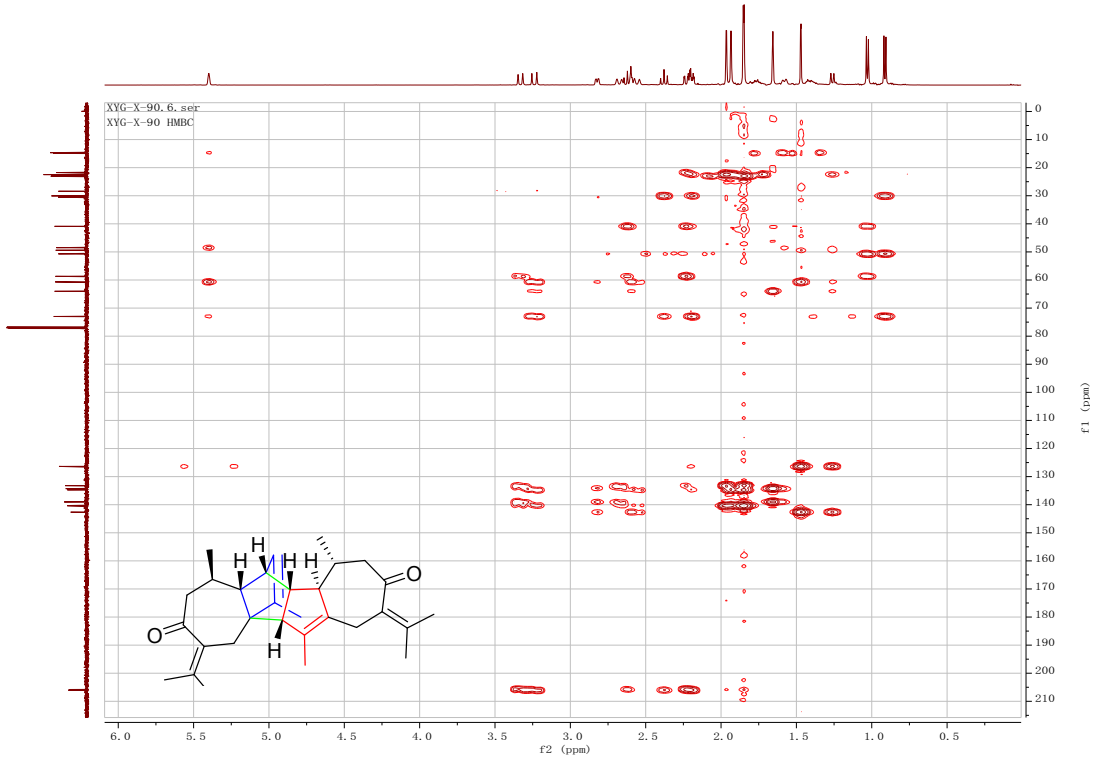


Fig. S24 HMBC spectrum (500 MHz, Chloroform-*d*) of compound **3**

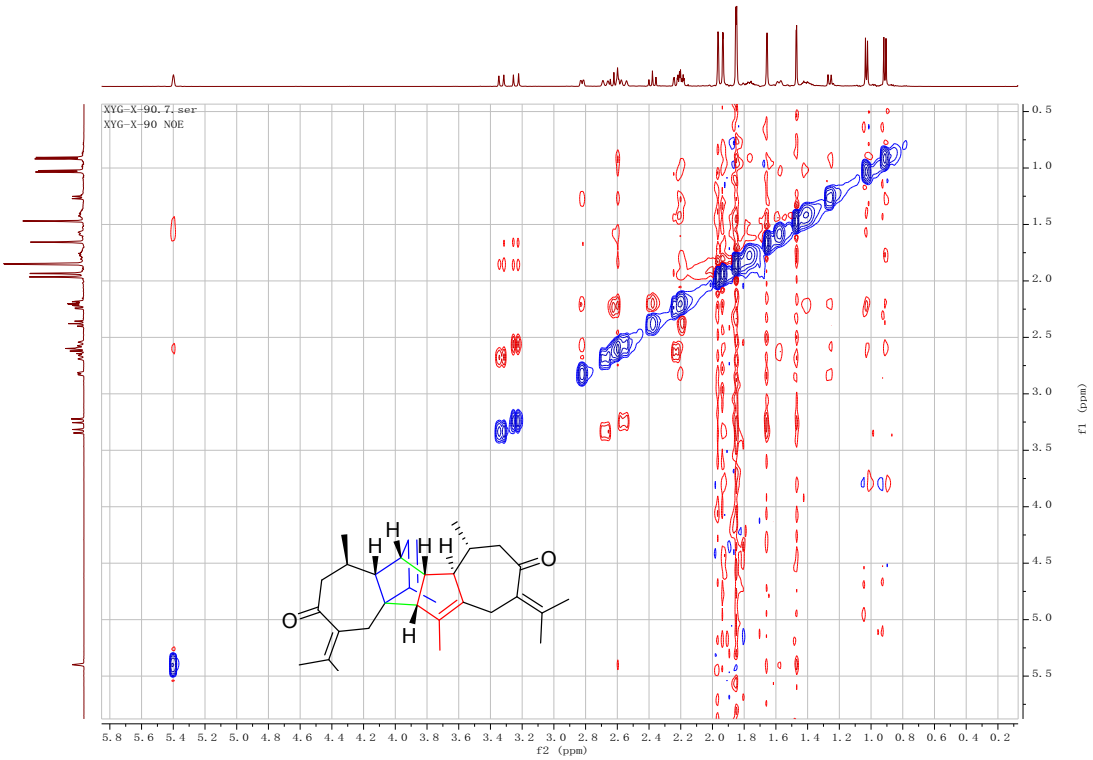


Fig. S25 NOESY spectrum (500 MHz, Chloroform-*d*) of compound **3**

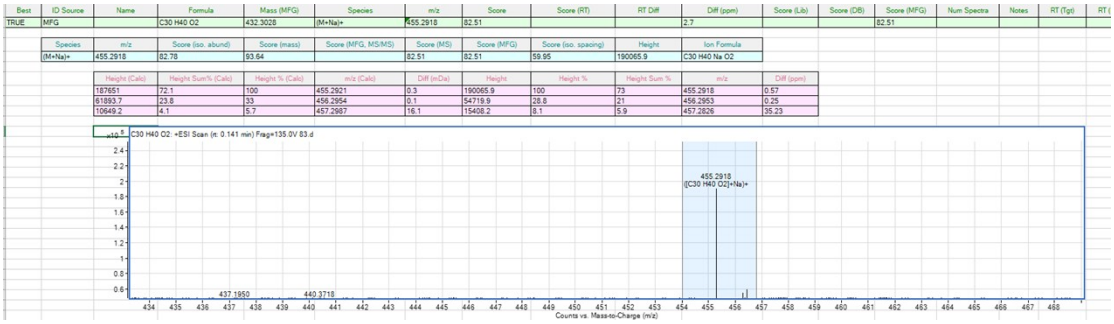


Fig. S26 HR-ESI-MSspectrum of compound **3**

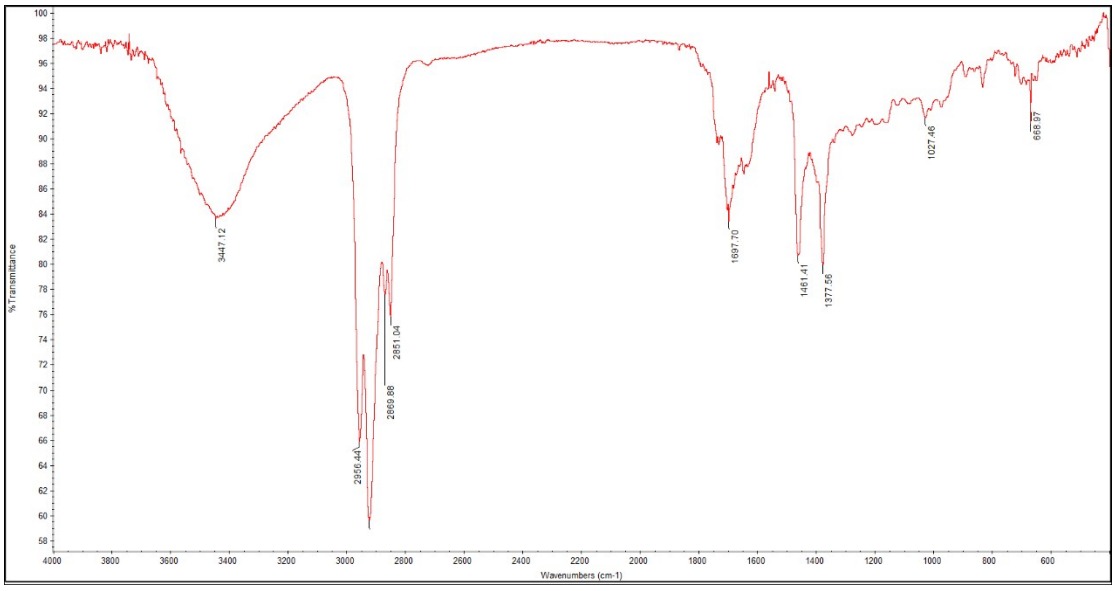


Fig. S27 IR (KBr disc) spectrum of compound **3**

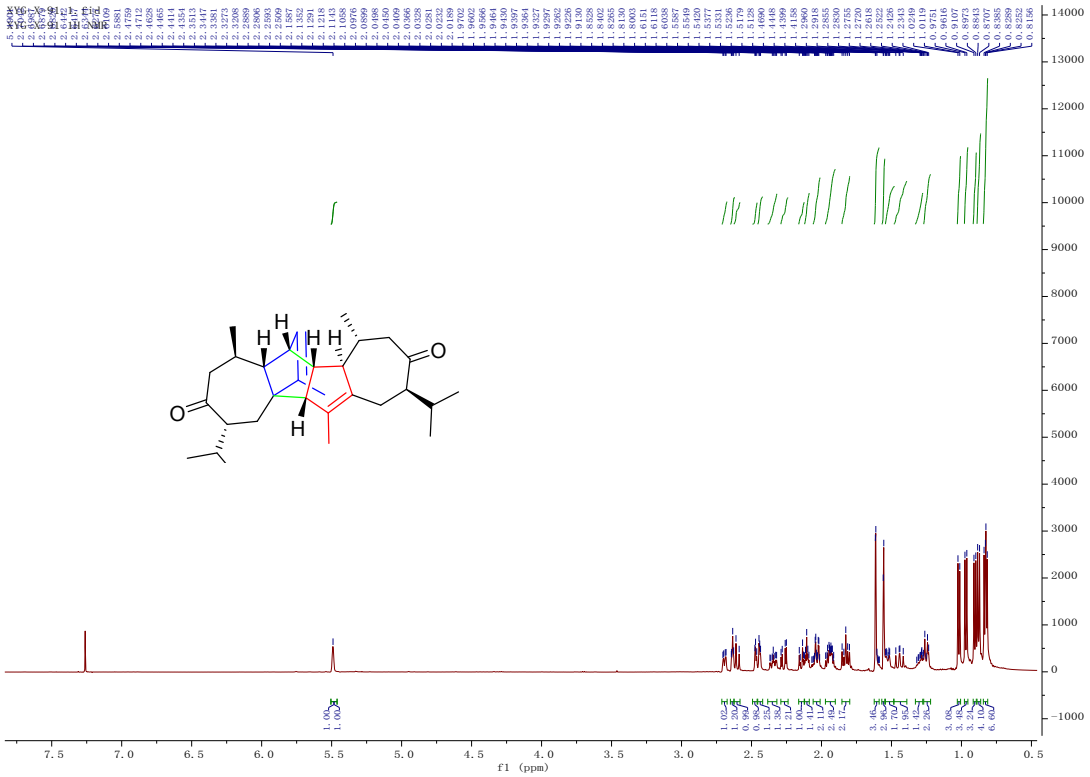


Fig. S28 ^{1}H NMR spectrum (500 MHz, Chloroform-*d*) of compound **4**

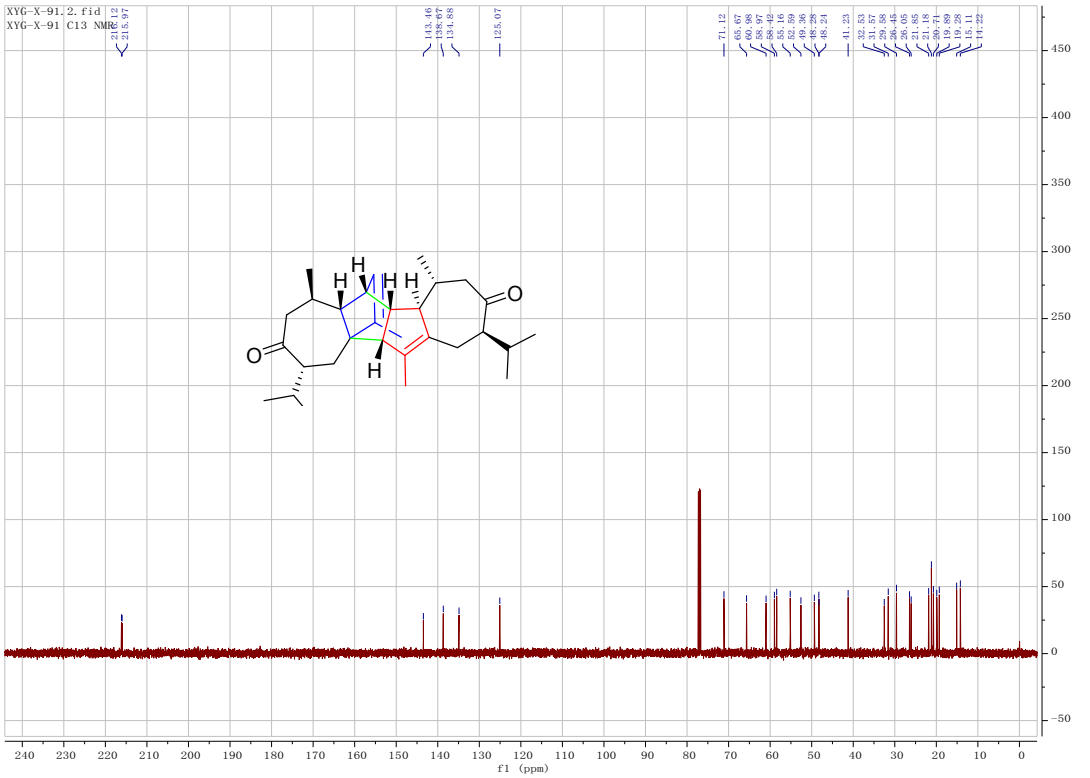


Fig. S29 ^{13}C NMR spectrum (125 MHz, Chloroform-*d*) of compound **4**

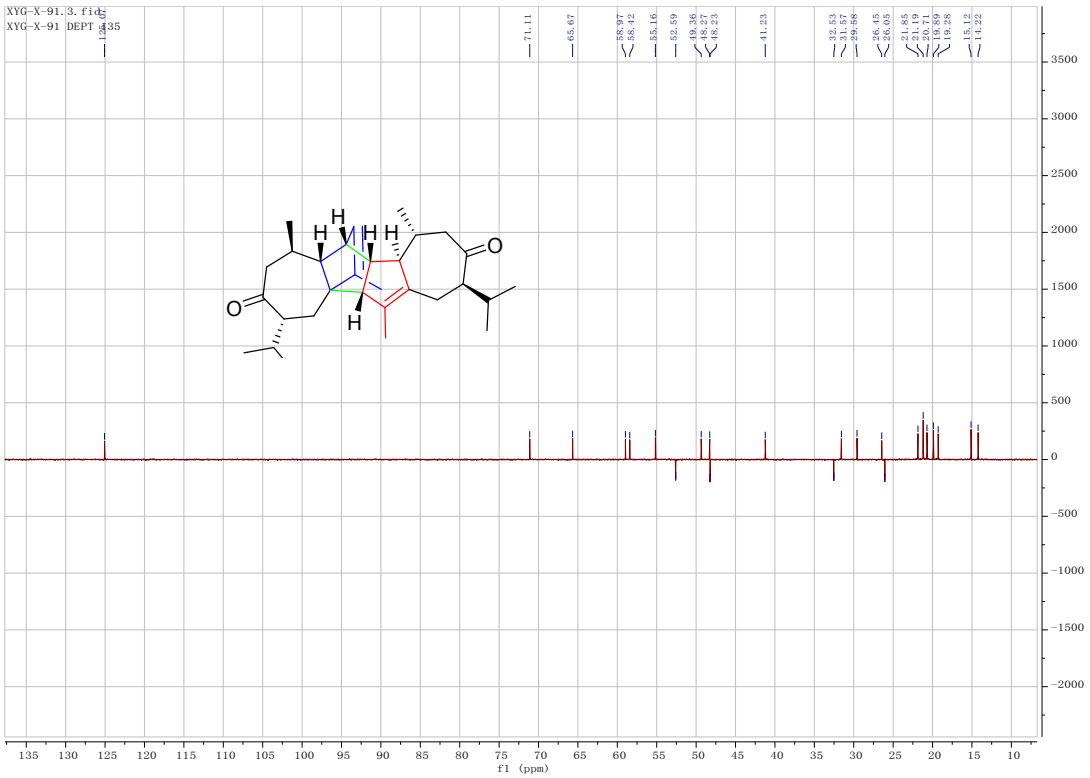


Fig. S30 DEPT spectrum (125 MHz, Chloroform-*d*) of compound **4**

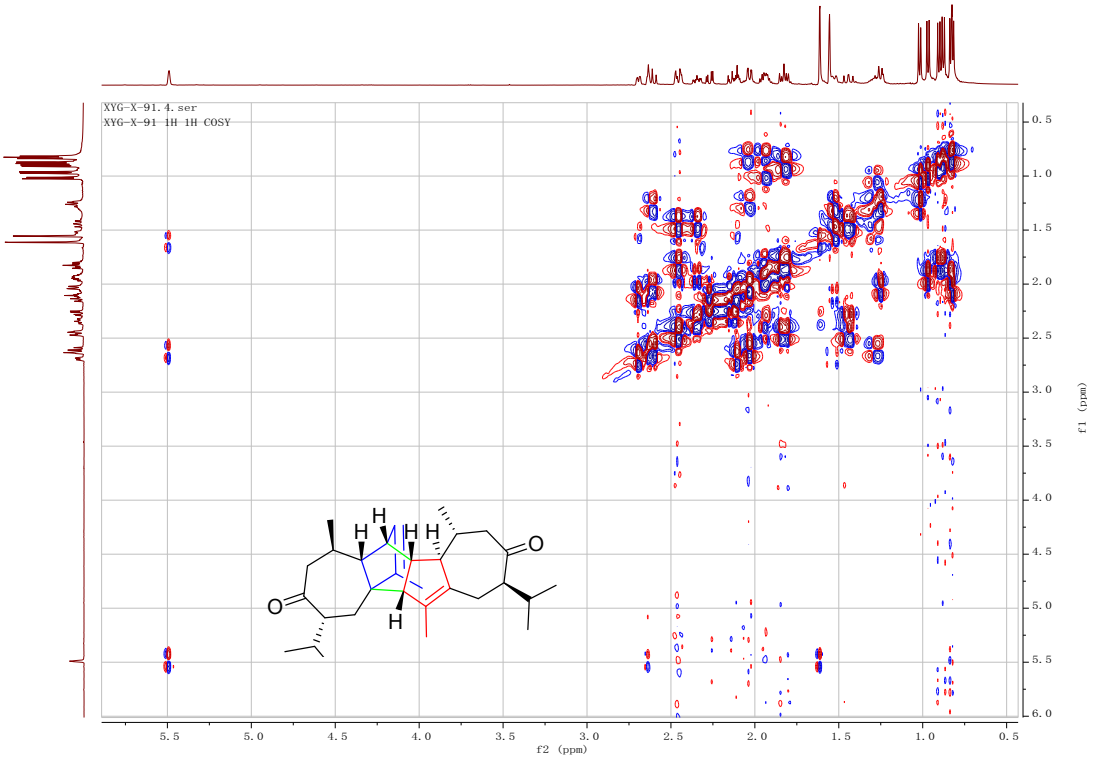


Fig. S31 ^{1}H-^{1}H COSY spectrum (500 MHz, Chloroform-*d*) of compound **4**

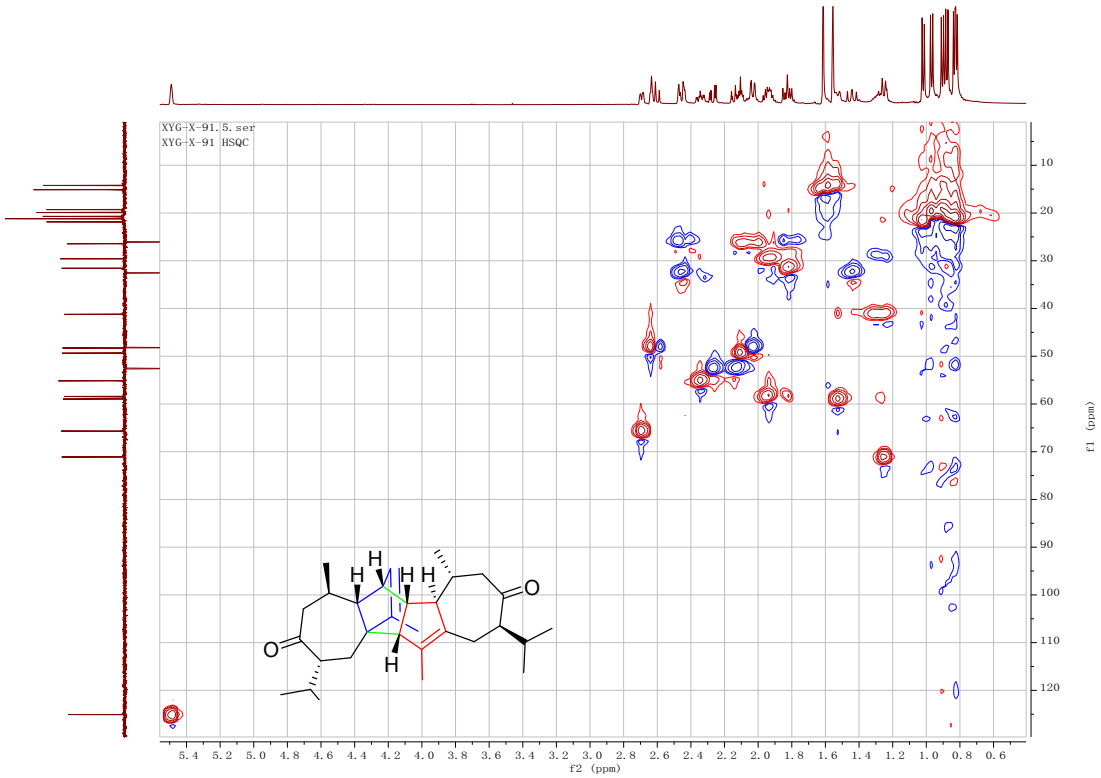


Fig. S32 HSQC spectrum (500 MHz, Chloroform-*d*) of compound **4**

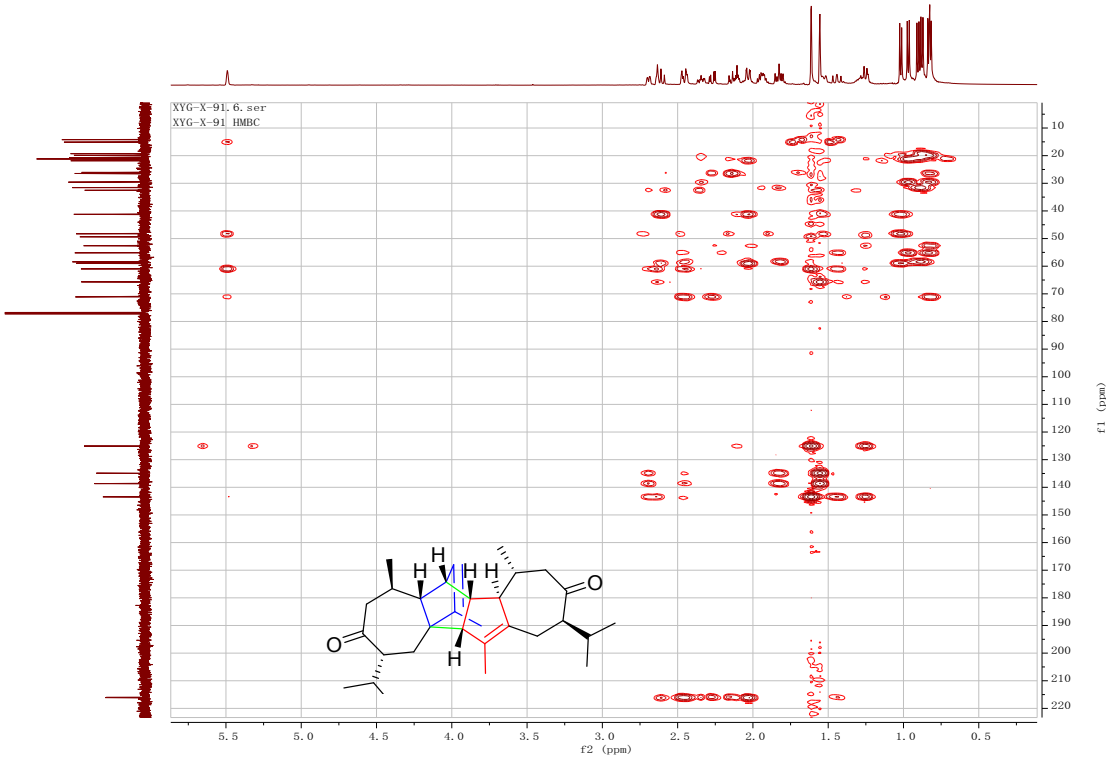


Fig. S33 HMBC spectrum (500 MHz, Chloroform-*d*) of compound **4**

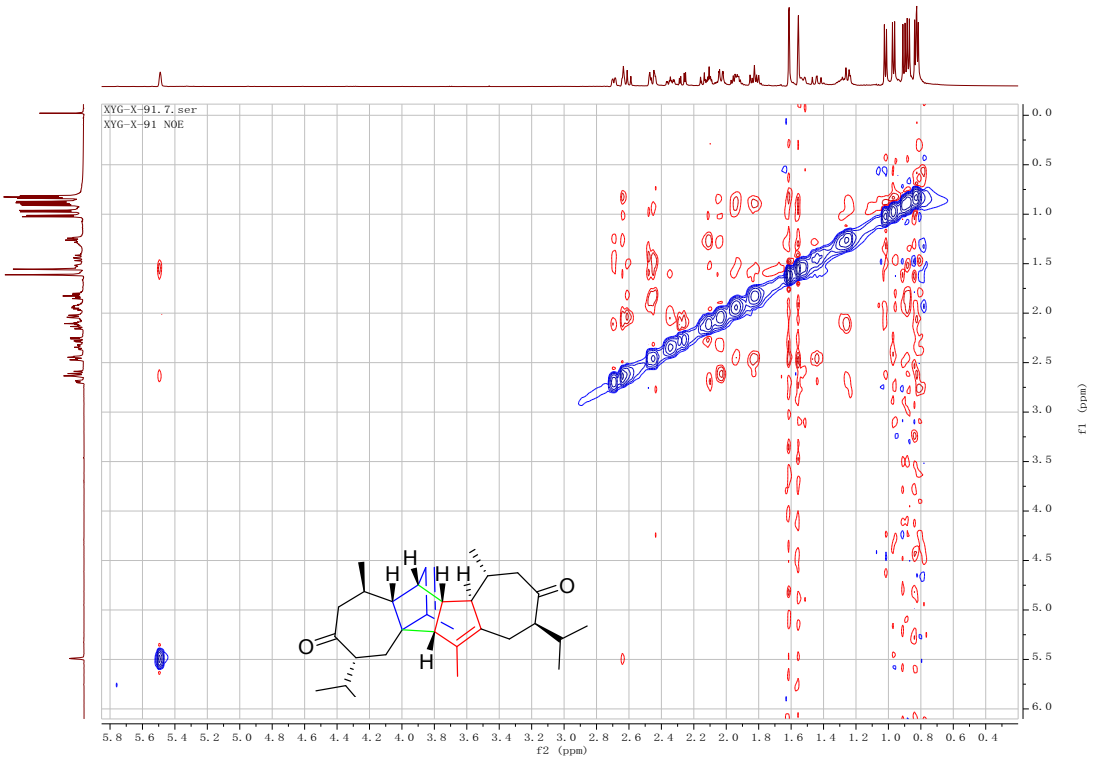


Fig. S34 NOESY spectrum (500 MHz, Chloroform-*d*) of compound **4**

Fig. S35 HR-ESI-MSspectrum of compound **4**

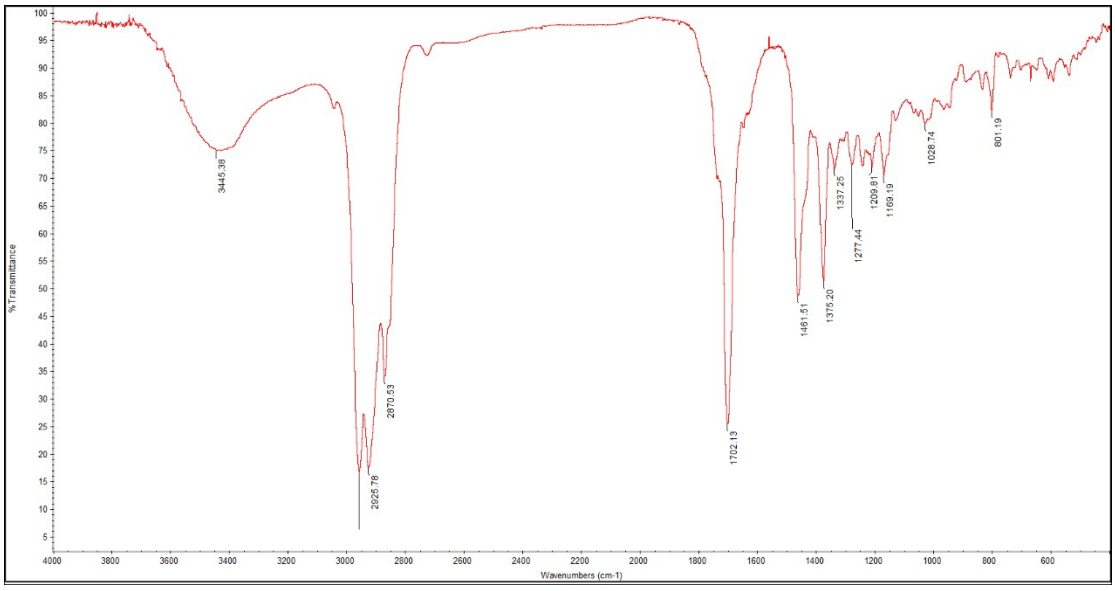


Fig. S36 IR (KBr disc) spectrum of compound **4**

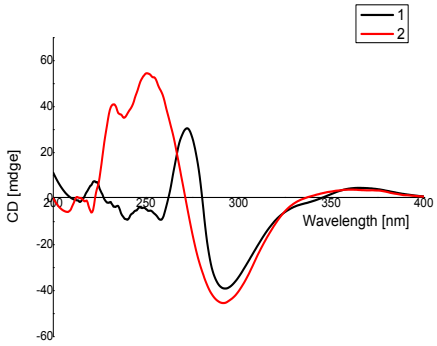


Fig. S37 CD spectrum of compounds **1** and **2**

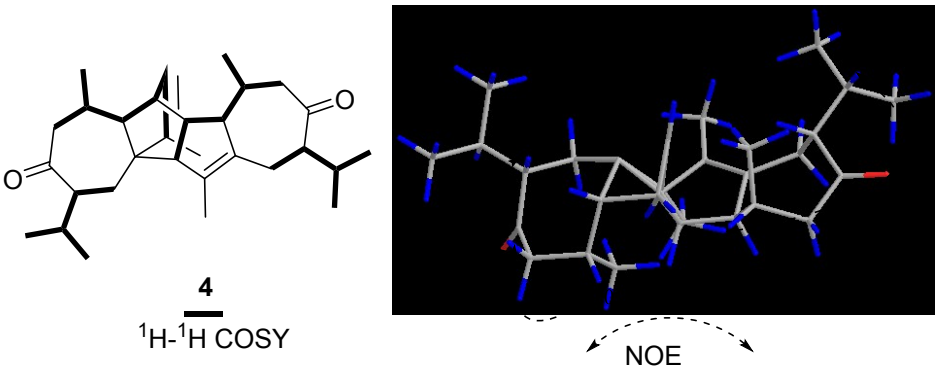


Fig. S38 Key ^{1}H-^{1}H COSY and NOESY correlations of **4**

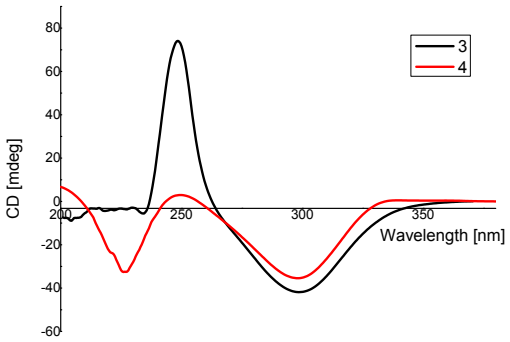


Fig. S39 CD spectrum of compounds **3** and **4**

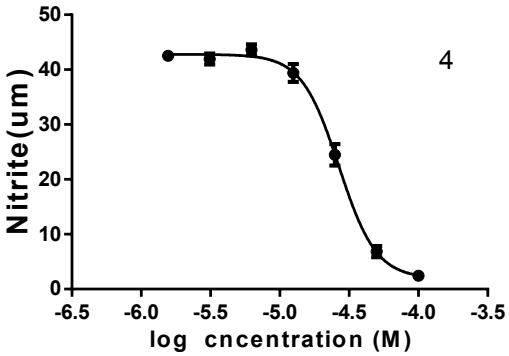


Fig. S40 The dose inhibition curve of NO produced by compound **4**. The data were obtained from three independent experiments and expressed as the means ± SEM.

(Method：0-16 min 20-45ACN;16-42 min,45-60 ACN; 42-57 min, 60-80ACN; 57-67 min,80-100 ACN; 67-70 min, 100 ACN). We have controlled the temperature during the whole isolation process. (T < 55 ºC).

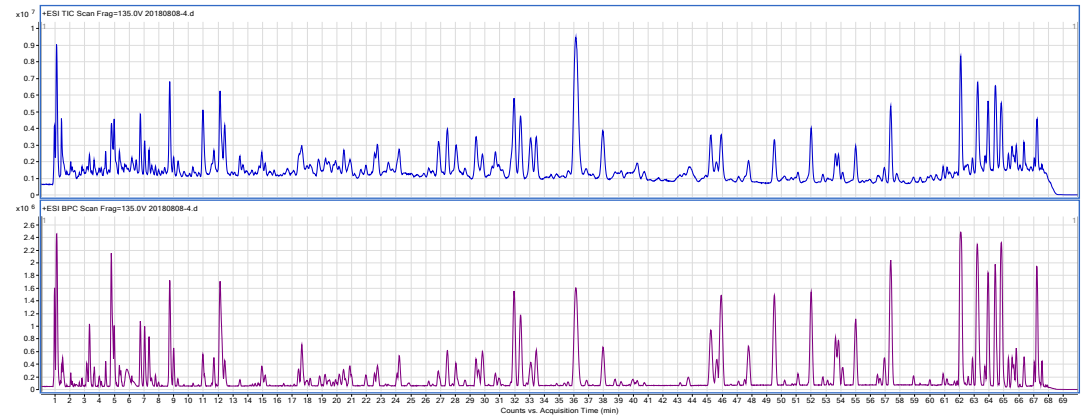


Fig S41 The TIC and BPC spectrum of the crude extracts from the roots of *Xylopia vielana*.

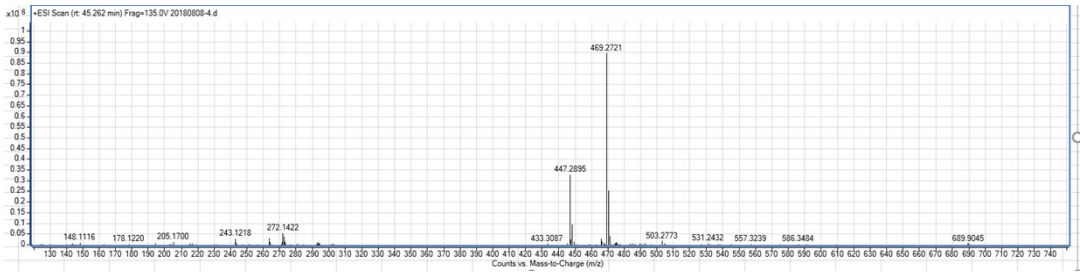


Fig S42 The HRESIMS of compound **1**

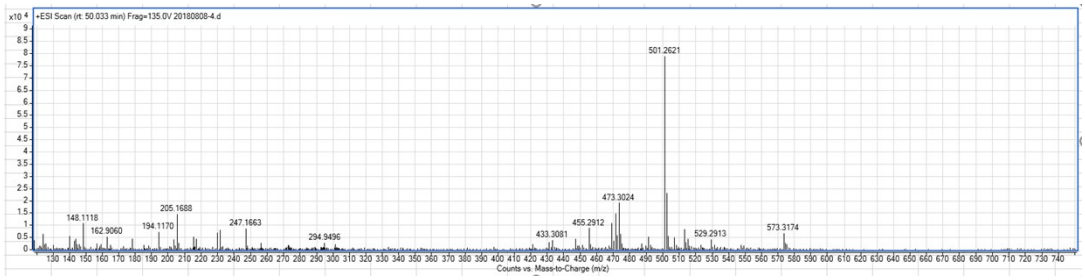


Fig S43 The HRESIMS of compound **2**

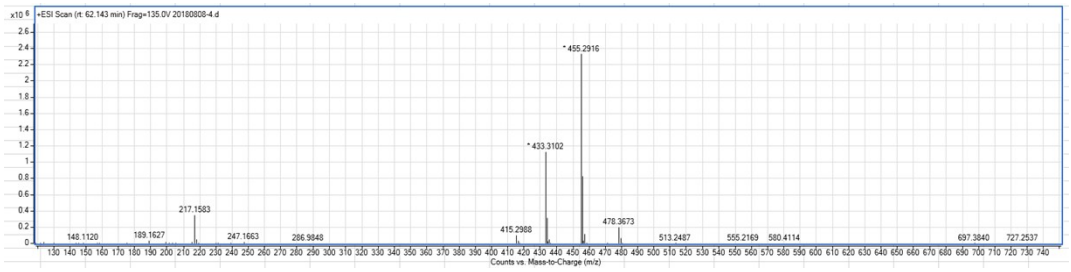


Fig S44 The HRESIMS of compound **3**

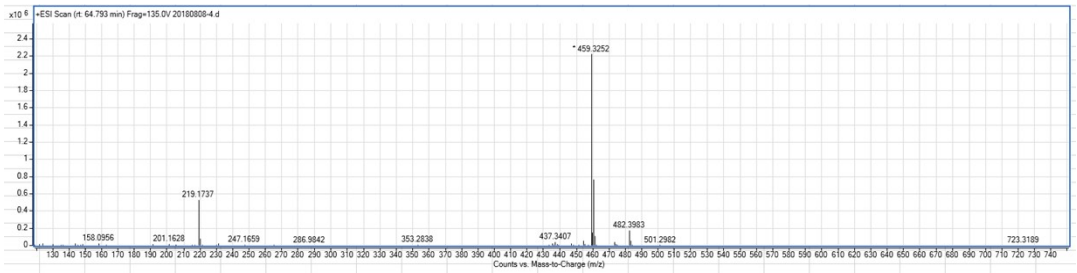


Fig S45 The HRESIMS of compound **4**