

Supporting Information

Dihydrochalcone glycosides from *Balanophora harlandii*

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List of Tables

Table S1 LC-MS condition for reference compounds and extract	4
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List of Figures

Figure S1 HRMS spectrum of compound 1	5
Figure S2 ^1H NMR spectrum of compound 1	5
Figure S3 ^{13}C NMR spectrum of compound 1	6
Figure S4 HSQC NMR spectrum of compound 1	6
Figure S5 HMBC NMR spectrum of compound 1	7
Figure S6 ^1H - ^1H COSY NMR spectrum of compound 1	7
Figure S7 ROESY NMR spectrum of compound 1	8
Figure S8 HRMS spectrum of compound 2	8
Figure S9 ^1H NMR spectrum of compound 2	9
Figure S10 ^{13}C NMR spectrum of compound 2	9
Figure S11 HSQC NMR spectrum of compound 2	10
Figure S12 HMBC NMR spectrum of compound 2	10
Figure S13 ^1H - ^1H COSY NMR spectrum of compound 2	11
Figure S14 ROESY NMR spectrum of compound 2	11
Figure S15 HRMS spectrum of compound 3	12
Figure S16 ^1H NMR spectrum of compound 3	12
Figure S17 ^{13}C NMR spectrum of compound 3	13
Figure S18 HSQC NMR spectrum of compound 3	13
Figure S19 HMBC NMR spectrum of compound 3	14
Figure S20 ^1H - ^1H COSY NMR spectrum of compound 3	14
Figure S21 ROESY NMR spectrum of compound 3	15
Figure S22 Key HMBC and ROESY correlations of compound 3	15
Figure S23 HRMS spectrum of compound 4	16
Figure S24 ^1H NMR spectrum of compound 4	16
Figure S25 ^{13}C NMR spectrum of compound 4	17
Figure S26 HSQC NMR spectrum of compound 4	17
Figure S27 HMBC NMR spectrum of compound 4	18

Figure S28 ^1H - ^1H COSY NMR spectrum of compound 4	18
Figure S29 ROESY NMR spectrum of compound 4	19
Figure S30 Key HMBC and ROESY correlations of compound 4	19
Figure S31 ^1H NMR spectrum of compound 5	20
Figure S32 ^{13}C NMR spectrum of compound 5	20
Figure S33 ^1H NMR spectrum of compound 6	21
Figure S34 ^{13}C NMR spectrum of compound 6	21
Figure S35 ^1H NMR spectrum of compound 7	22
Figure S36 ^{13}C NMR spectrum of compound 7	22
Figure S37 ^1H NMR spectrum of compound 8	23
Figure S38 ^{13}C NMR spectrum of compound 8	23
Figure S39 Pictures of <i>Balanophora harlandii</i> (A: mal plant; B: female plant)	24
Figure S40 (A) TIC chromatogram of Fr.1; (B) Corresponding XIC chromatogram	24
Figure S41 (A) TIC chromatogram of Fr.2; (B) Corresponding XIC chromatogram	24
Figure S42 (A) TIC chromatogram of Fr.3; (B) Corresponding XIC chromatogram	25
Figure S43 (A) TIC chromatogram of Fr.4; (B) Corresponding XIC chromatogram	25
Figure S44 (A) TIC chromatogram of Fr.5; (B) Corresponding XIC chromatogram	25

Table S1 LC-MS condition for reference compounds and extract

Liquid Chromatograph

Instrument Agilent 1290 with UV detector
 Column Agilent Eclipse plus C₁₈; 1.8 μm; 2.1 × 50 mm (P/N 959757-902)
 Temperature 25 °C
 Injection 1 μL
 Wavelength 200-400nm
 Gradient Solvent A 0.1% formic acid in water
 Solvent B 0.1% formic acid in acetonitrile

Time (min)	Flow Rate (mL/min)	%B
0.00	0.400	10.0
8.00	0.400	40.0
15.00	0.400	95.0
20.00	0.400	95.0
21.00	0.400	10.0
25.00	0.400	10.0

Mass Spectrometer

Instrument Sciex TripleTOF 4600 LC/MS
 Polarity Negative ion mode
 HESI Source

Gas 1 Flow Rate	50
Gas 2 Flow Rate	50
Curtain Gas Flow Rate	35
IonSpray Voltage Floating(kV)	-4500
Ion Source Temperature (°C)	500
TOF mass range	100~1500
Declustering Potential	100
Collision Energy	-10

ddMS²

Declustering Potential	100
Collision Energy	-40
Collision Energy Spread	20
Ion Release Delay	30
Ion Release Width	15

Spectrum from 20180503-LF280-neg.... - 1500) from 6.960 to 7.609 min)

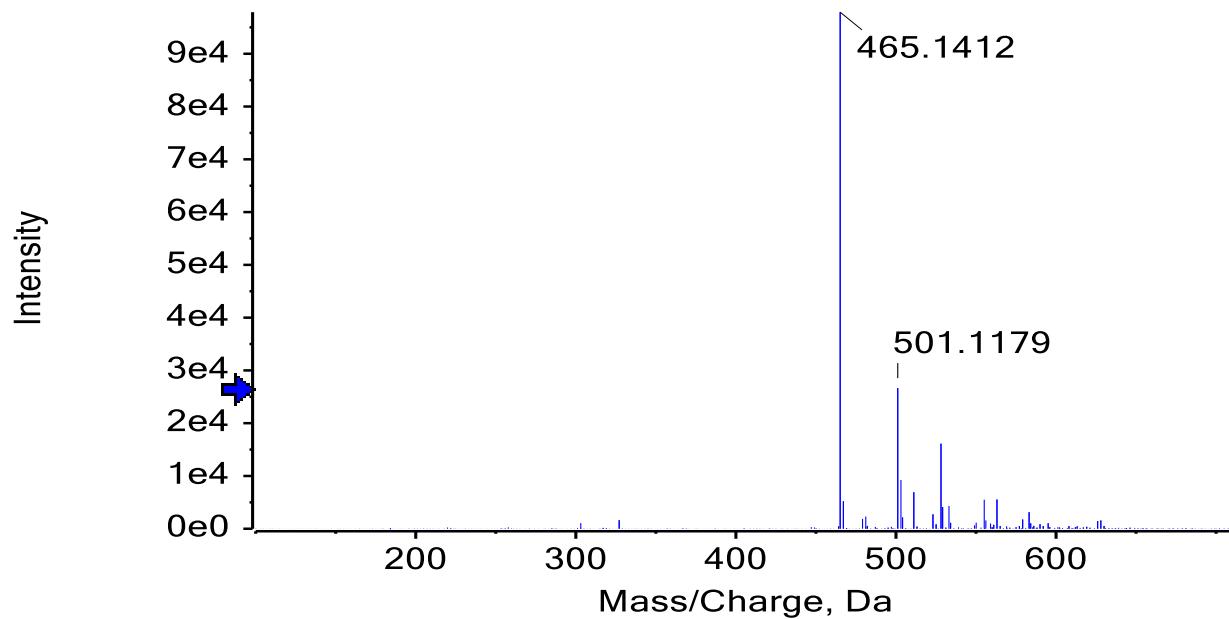


Figure S1 HRMS spectrum of compound **1**

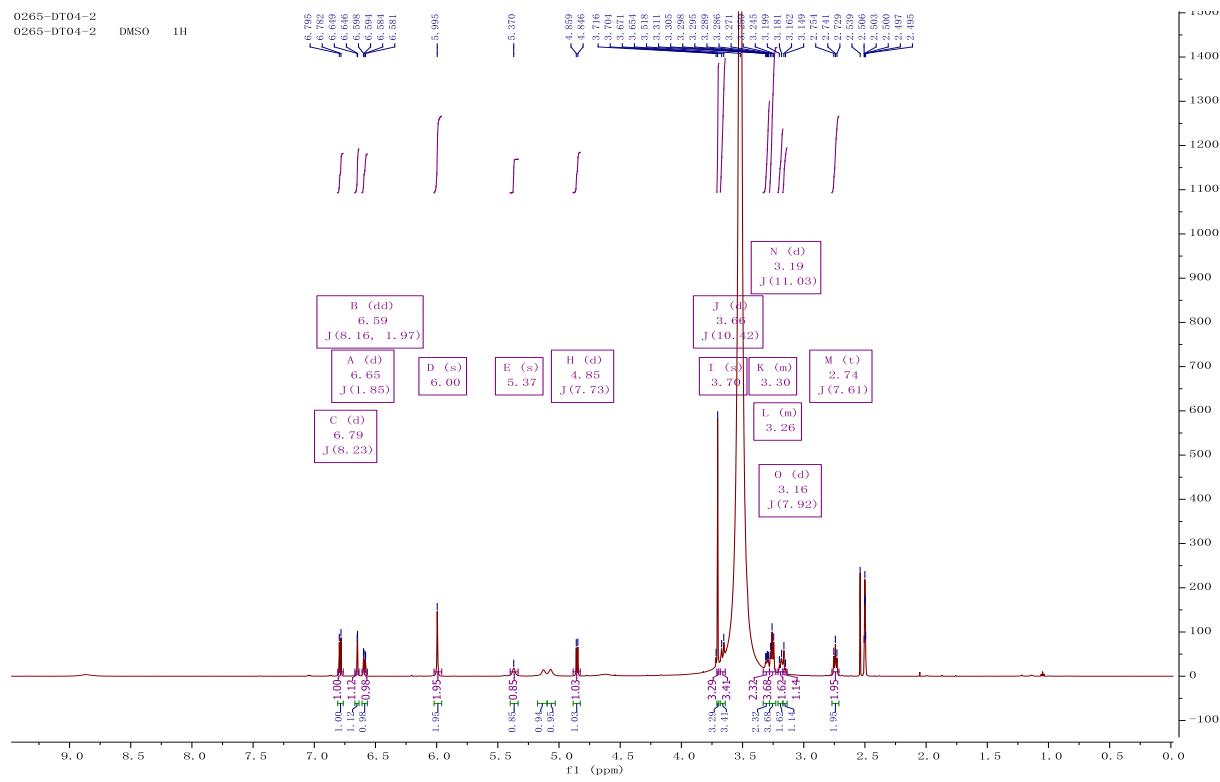


Figure S2 ¹H NMR spectrum of compound **1**

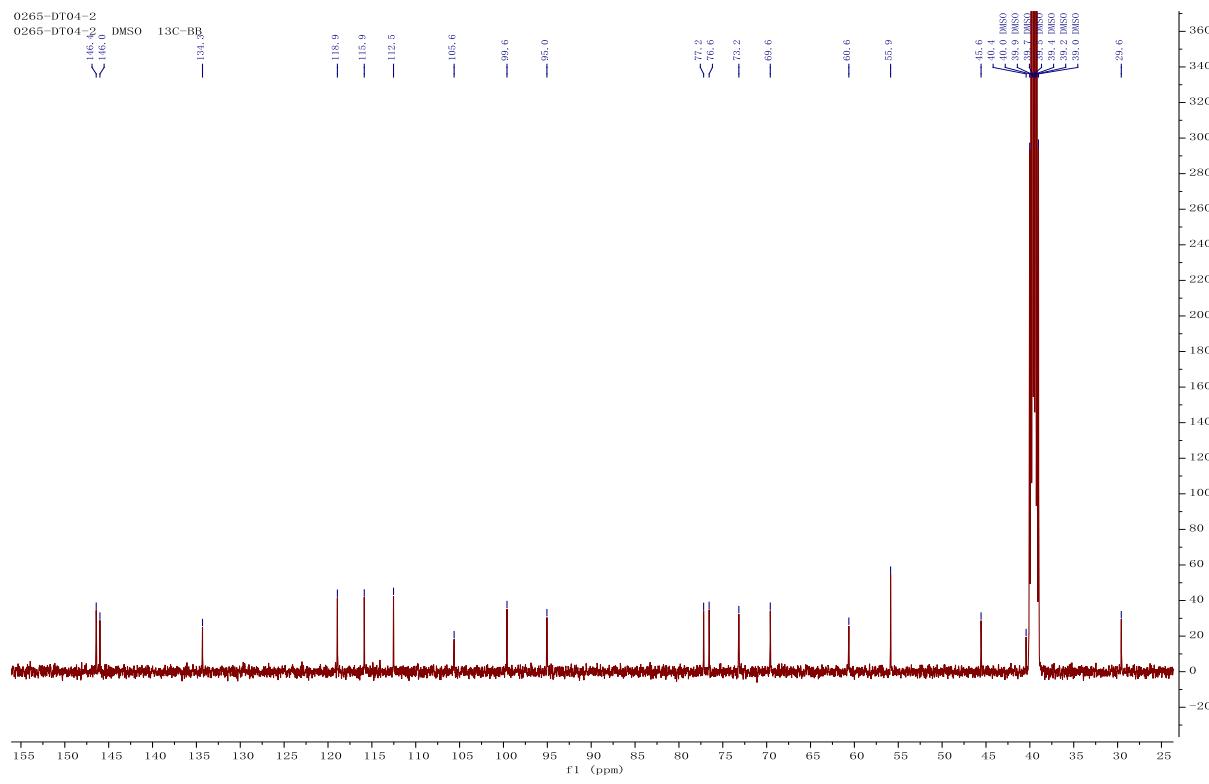


Figure S3 ¹³C NMR spectrum of compound 1

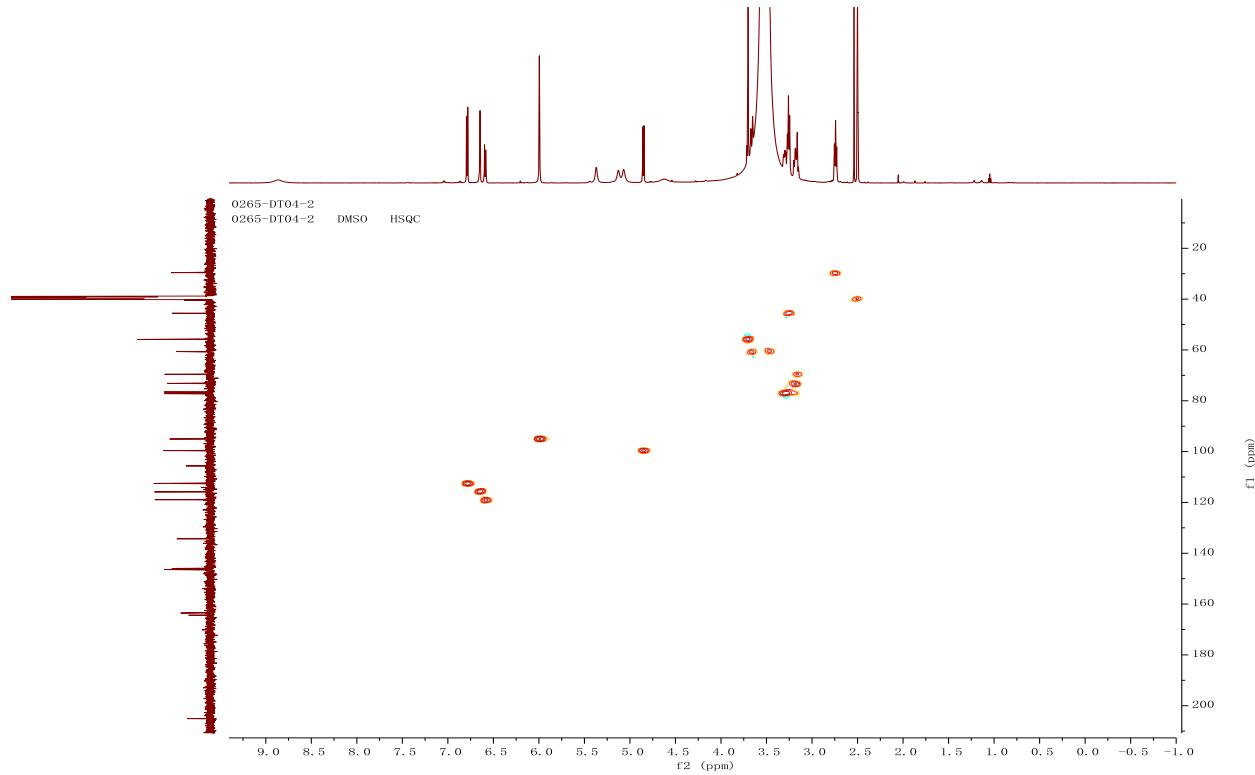


Figure S4 HSQC NMR spectrum of compound 1

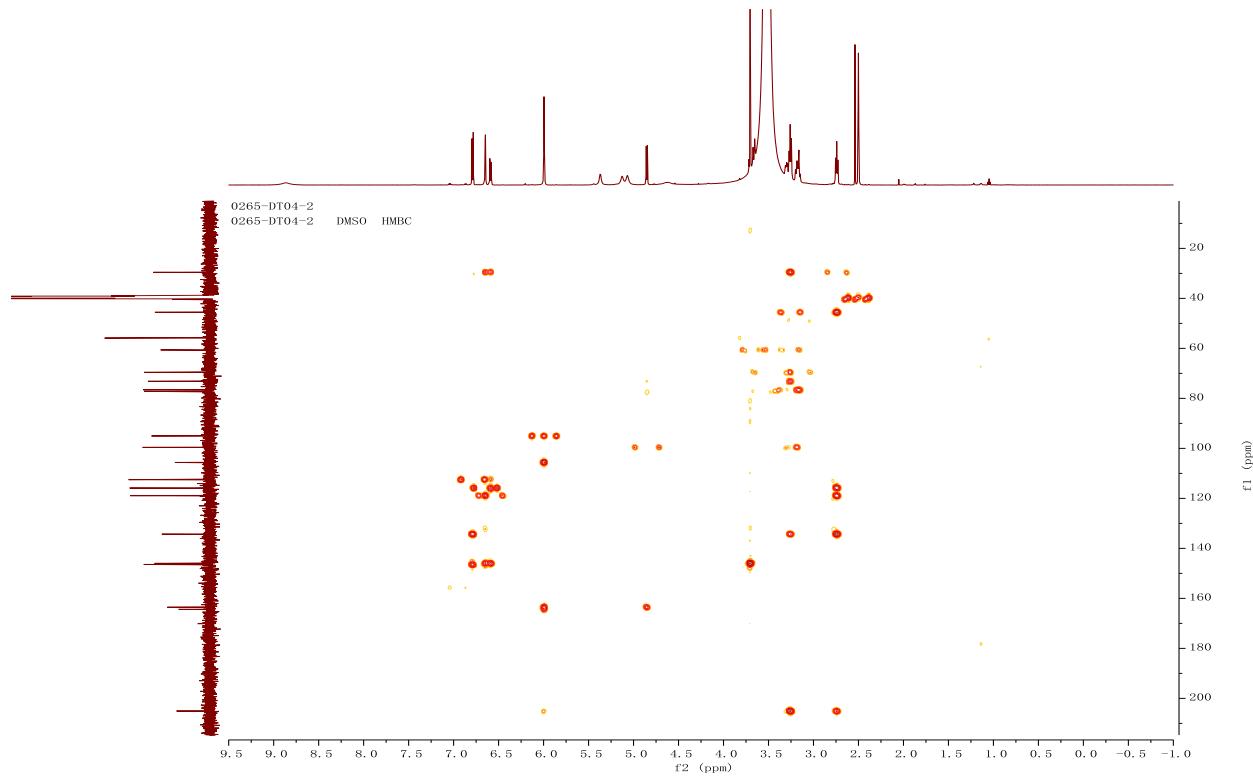


Figure S5 HMBC NMR spectrum of compound 1

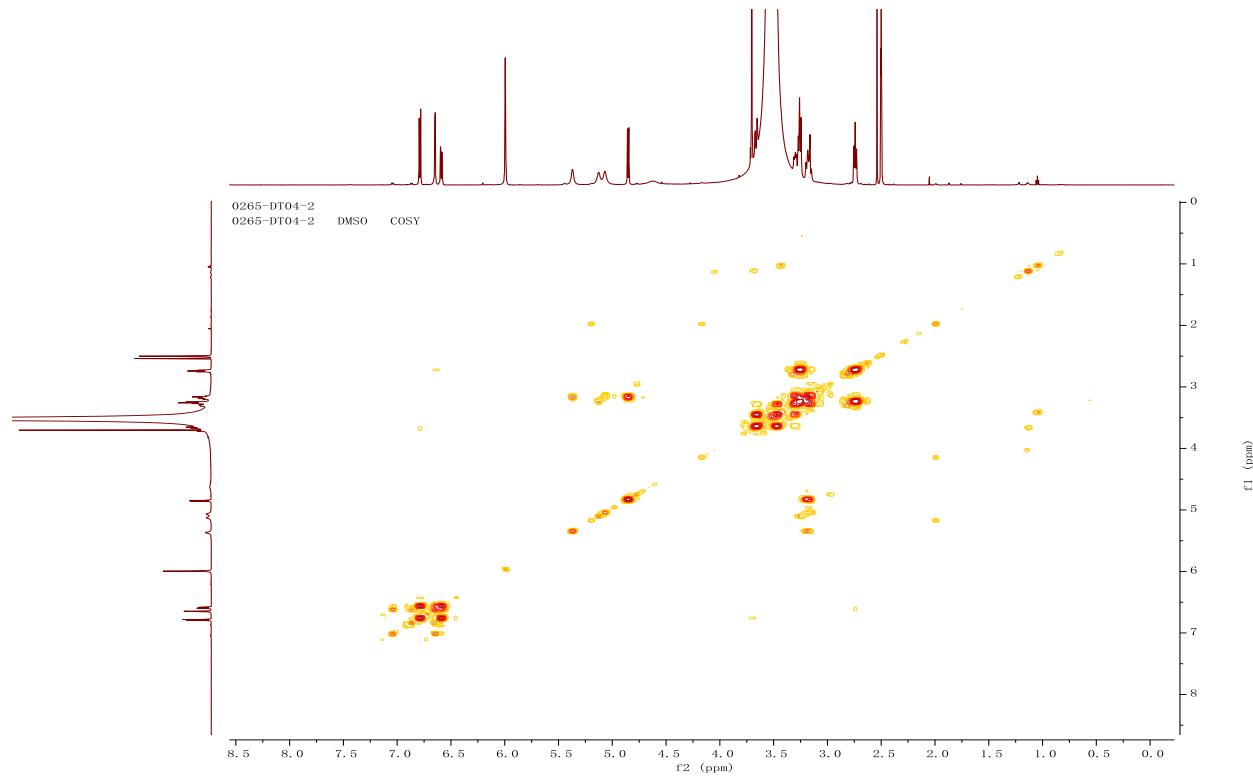


Figure S6 ^1H - ^1H COSY NMR spectrum of compound 1

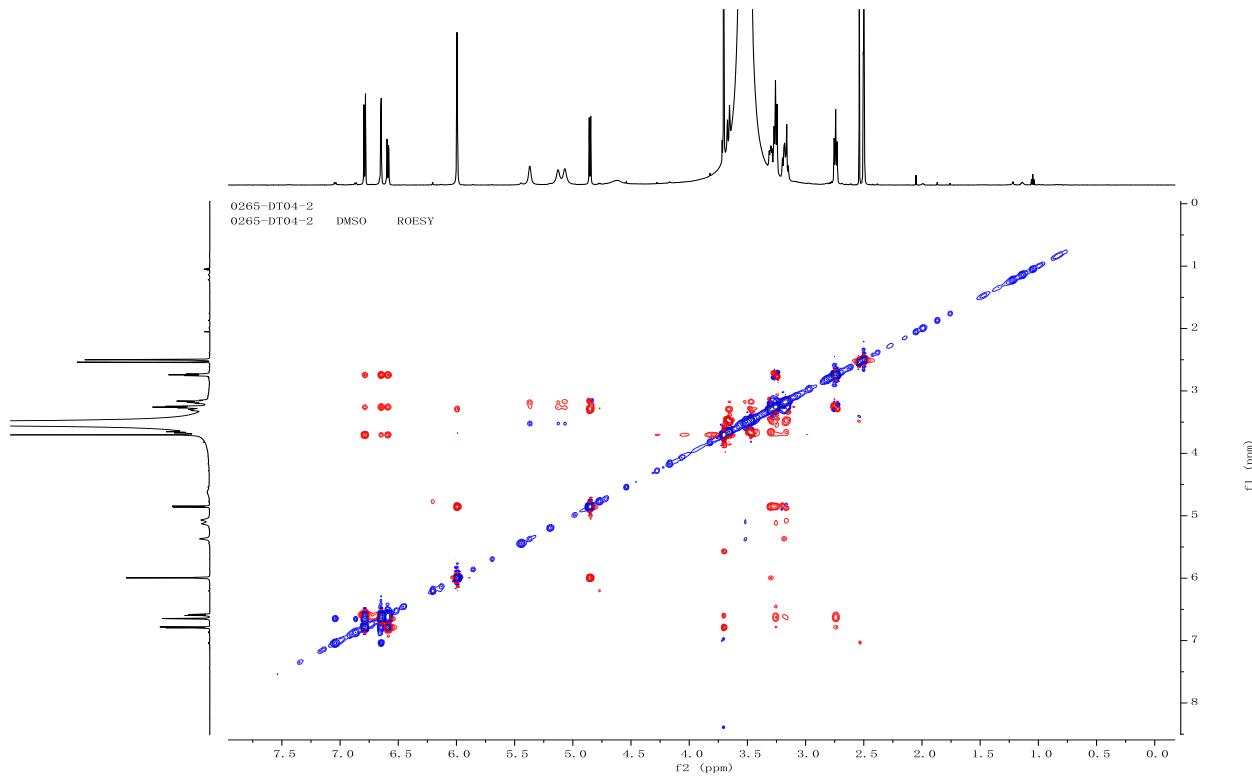


Figure S7 ROESY NMR spectrum of compound **1**

Spectrum from 20180503-LF279-neg.... - 1500) from 5.445 to 6.756 min)

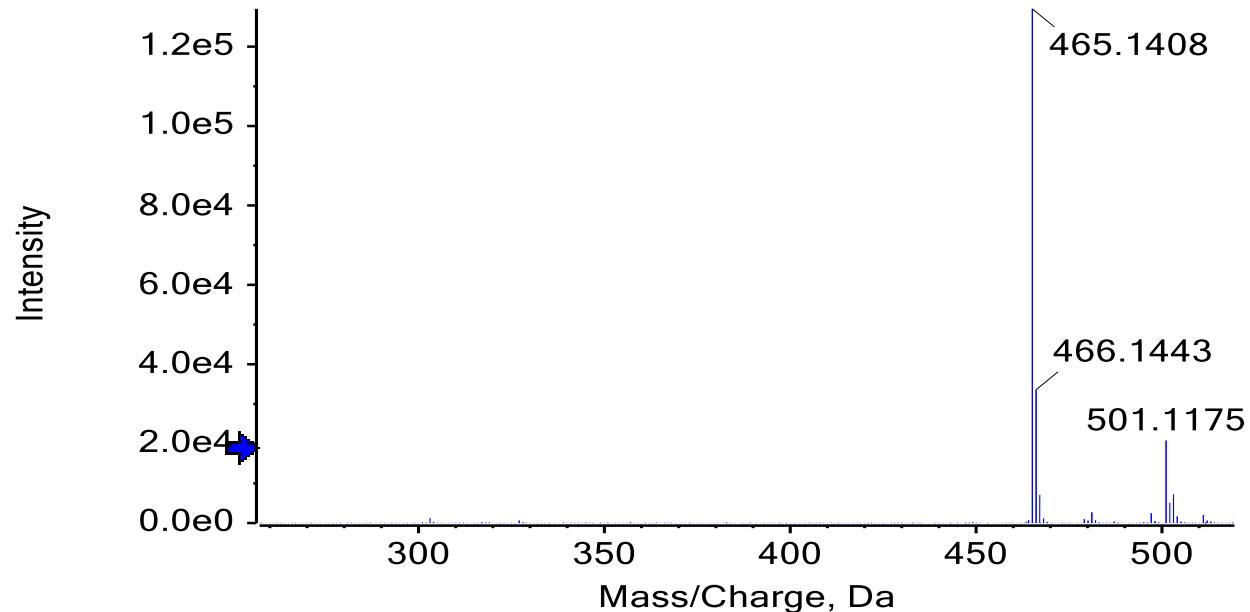


Figure S8 HRMS spectrum of compound **2**

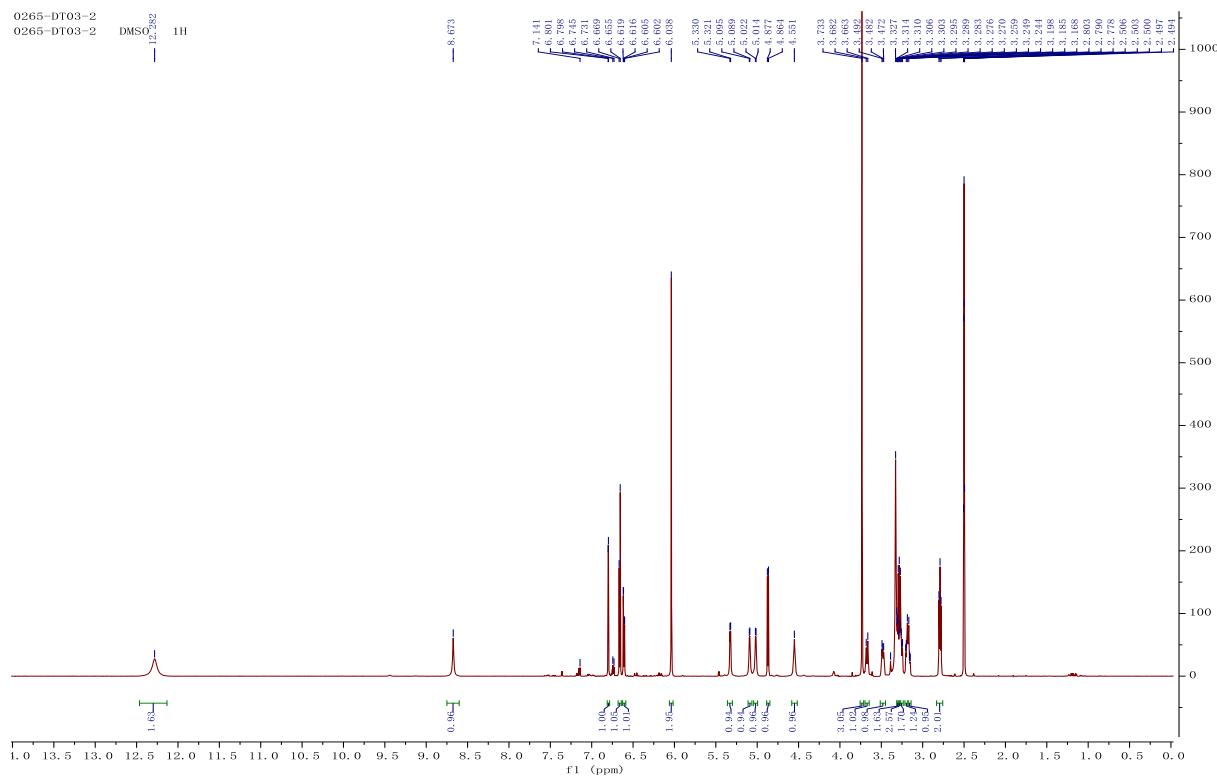


Figure S9 ¹H NMR spectrum of compound 2

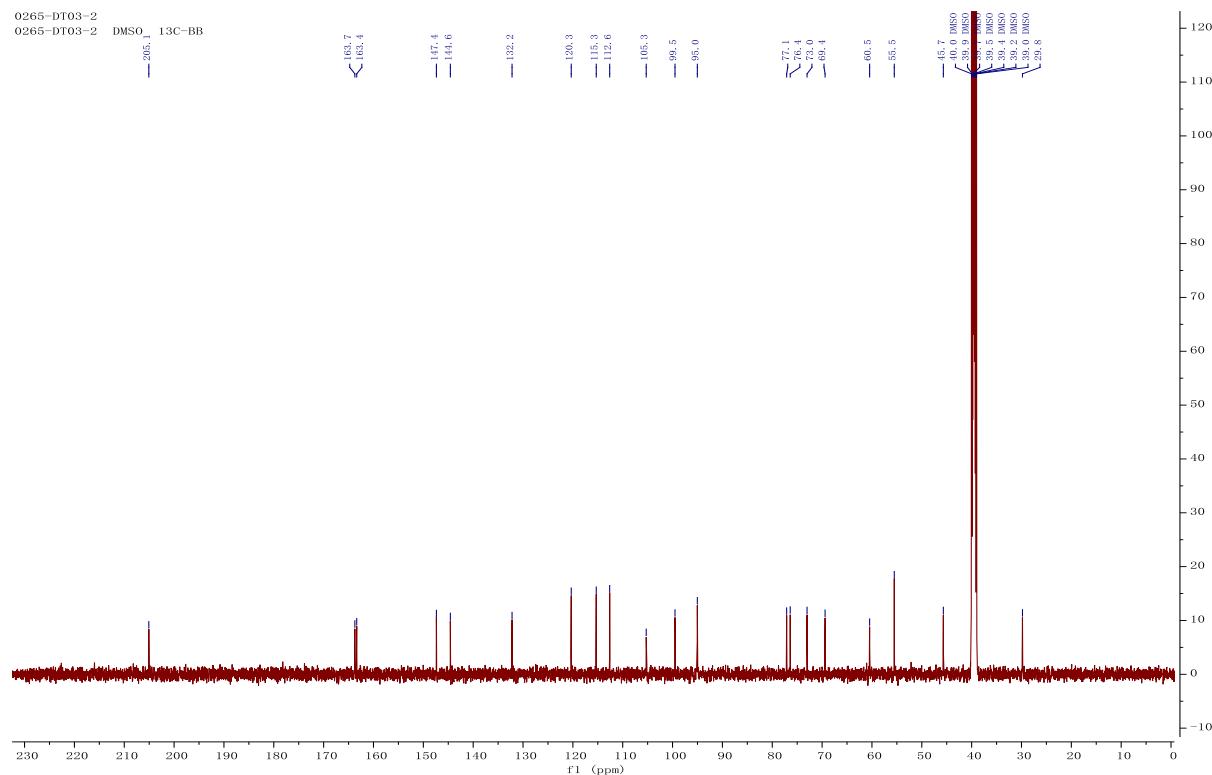


Figure S10 ¹³C NMR spectrum of compound 2

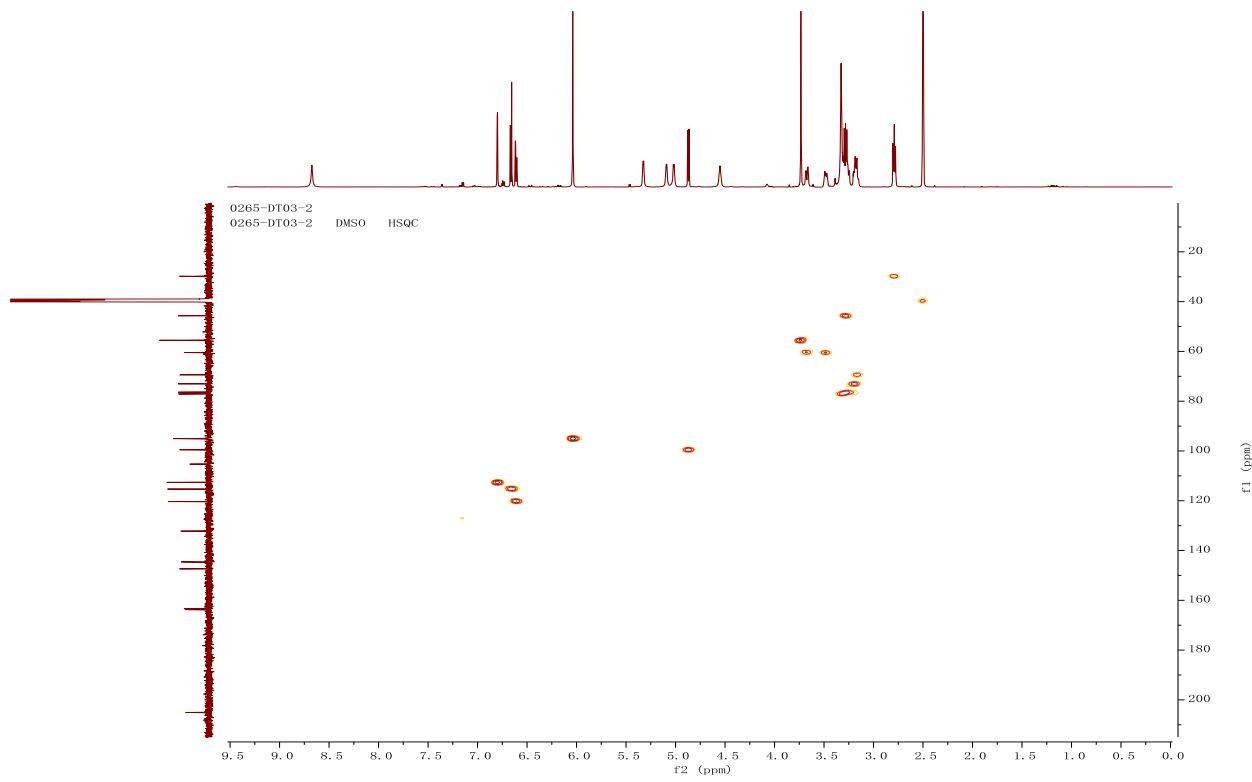


Figure S11 HSQC NMR spectrum of compound 2

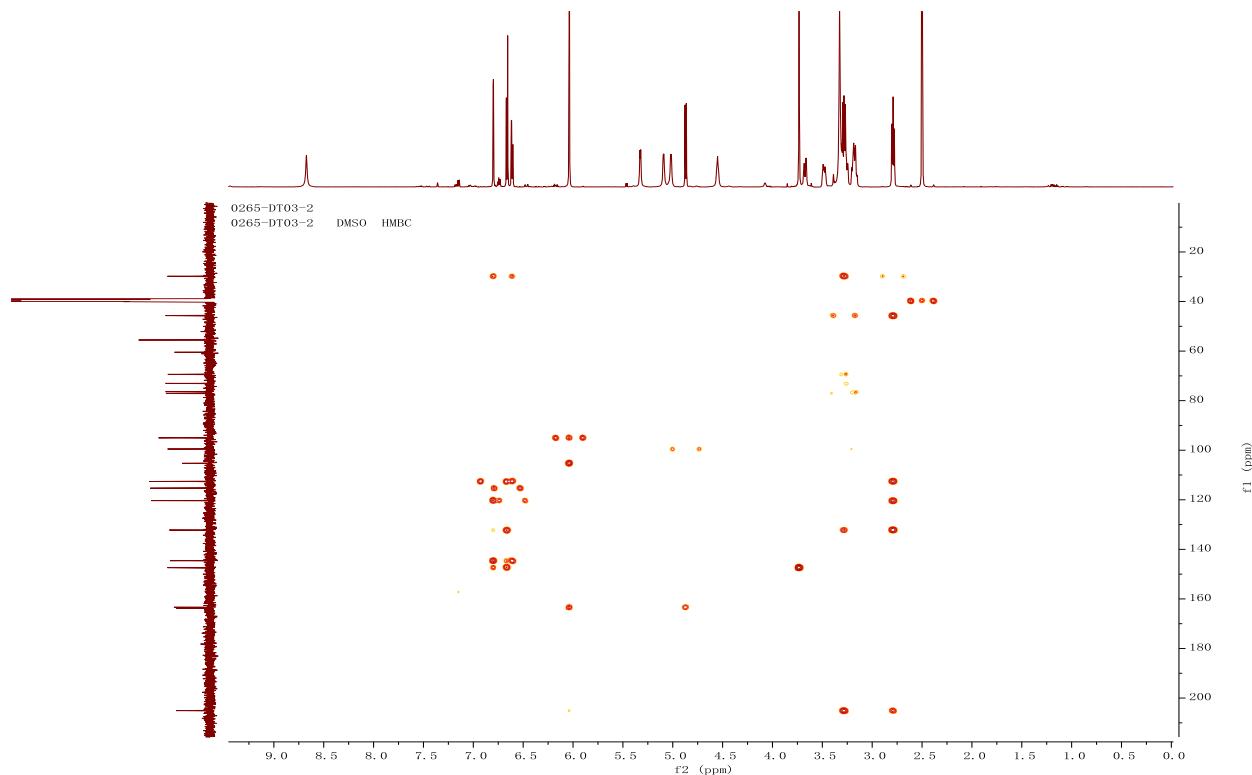


Figure S12 HMBC NMR spectrum of compound 2

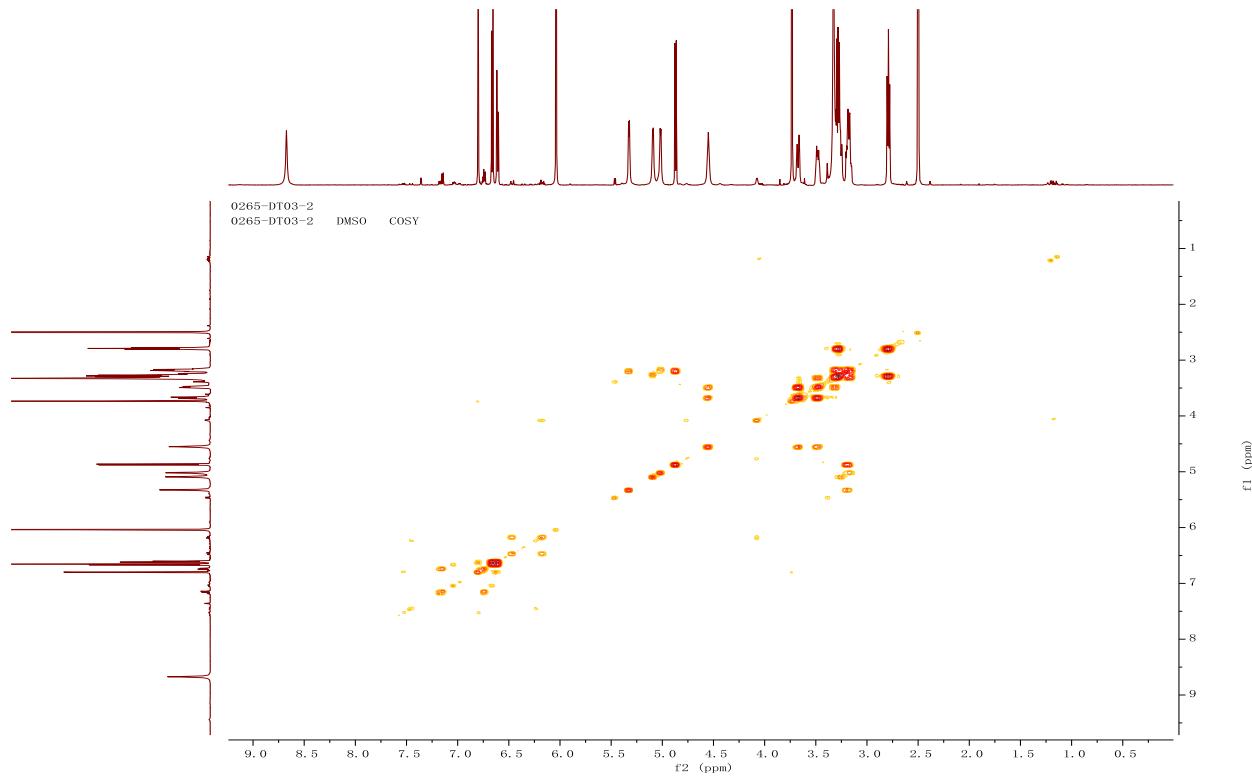


Figure S13 ¹H-¹H COSY NMR spectrum of compound 2

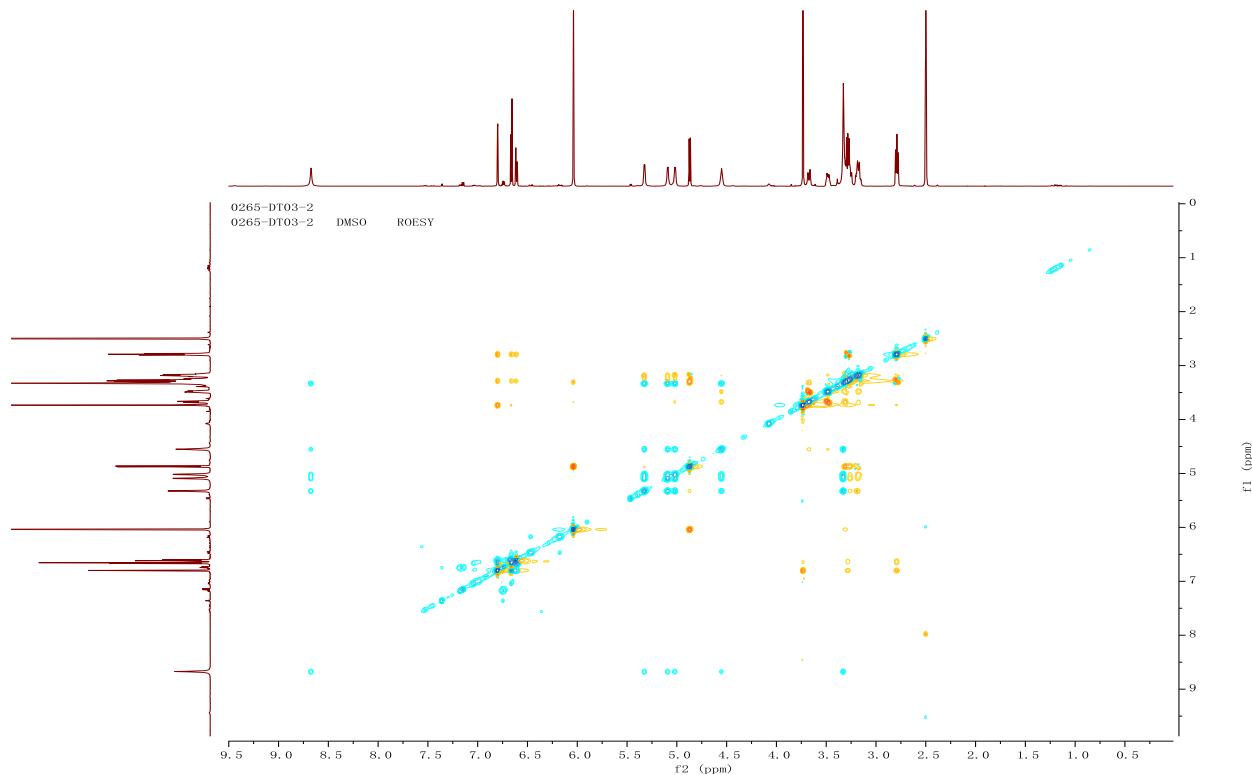


Figure S14 ROESY NMR spectrum of compound 2

Spectrum from 20180810_新化合物-DT0... 1500) from 3.324 to 3.467 min)

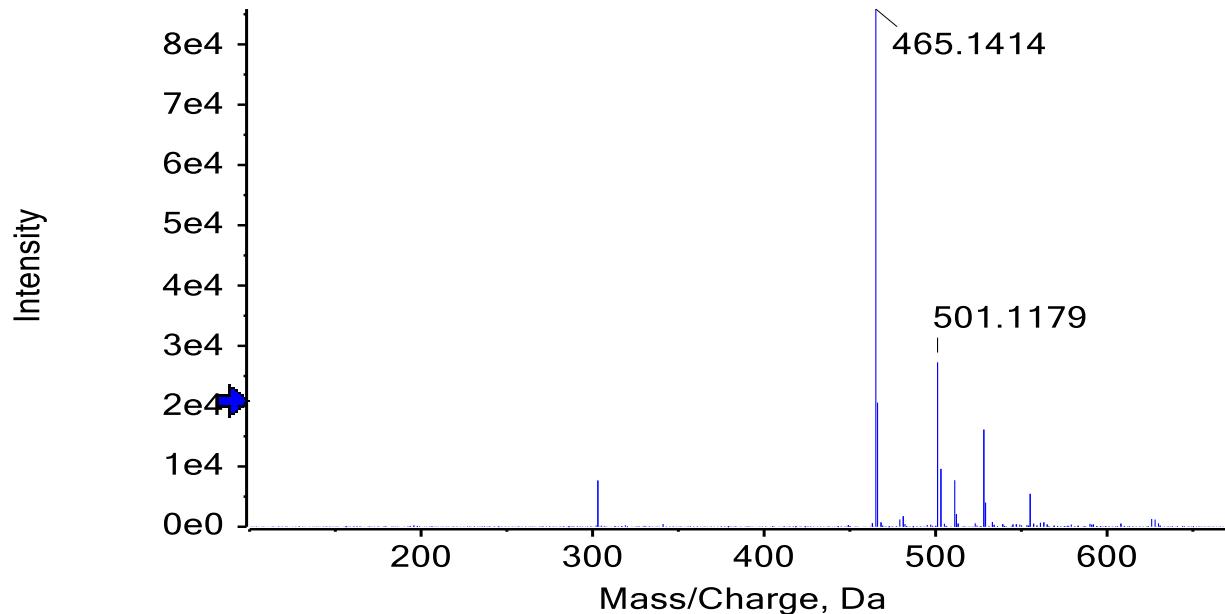


Figure S15 HRMS spectrum of compound 3

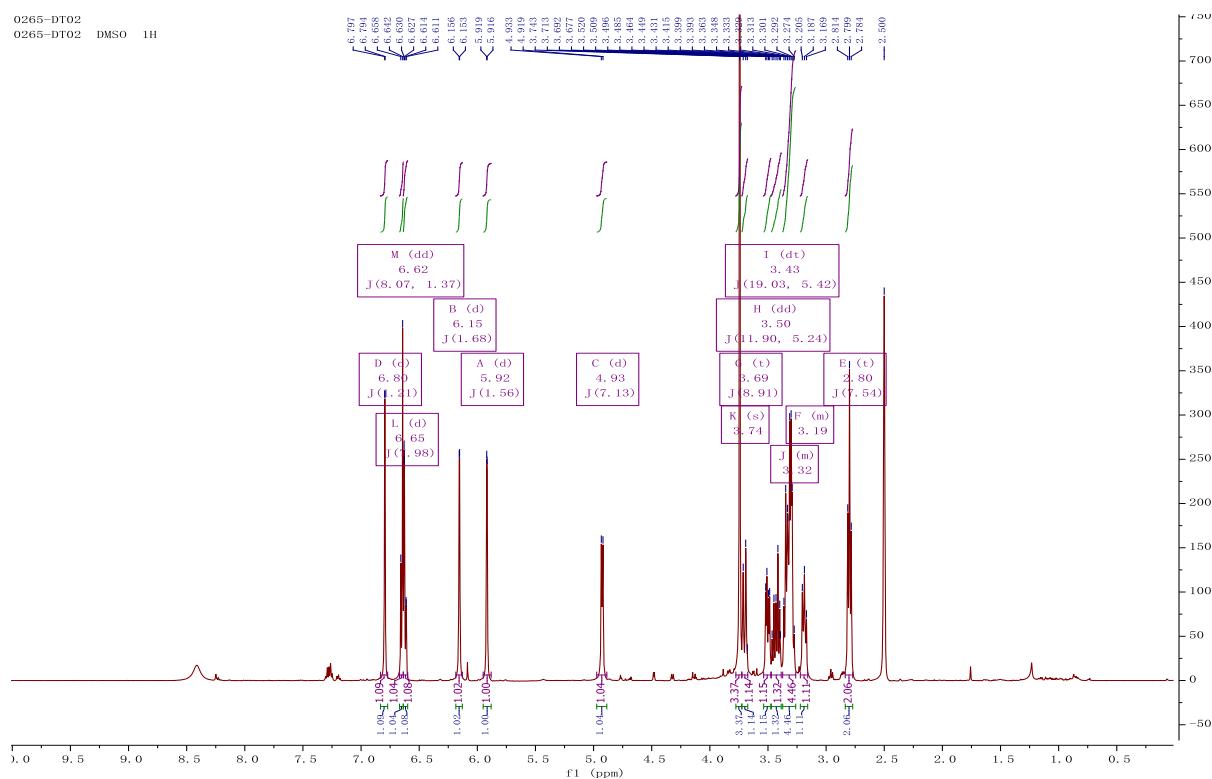


Figure S16 ¹H NMR spectrum of compound 3

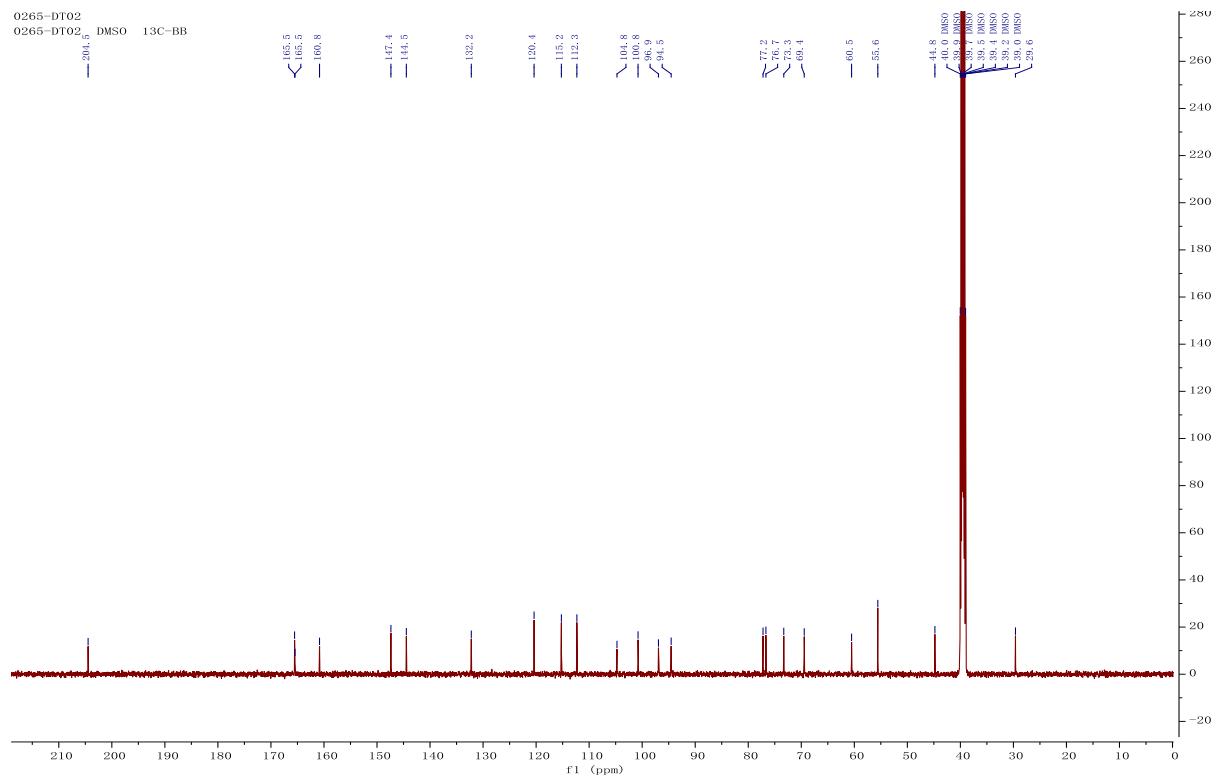


Figure S17 ¹³C NMR spectrum of compound 3

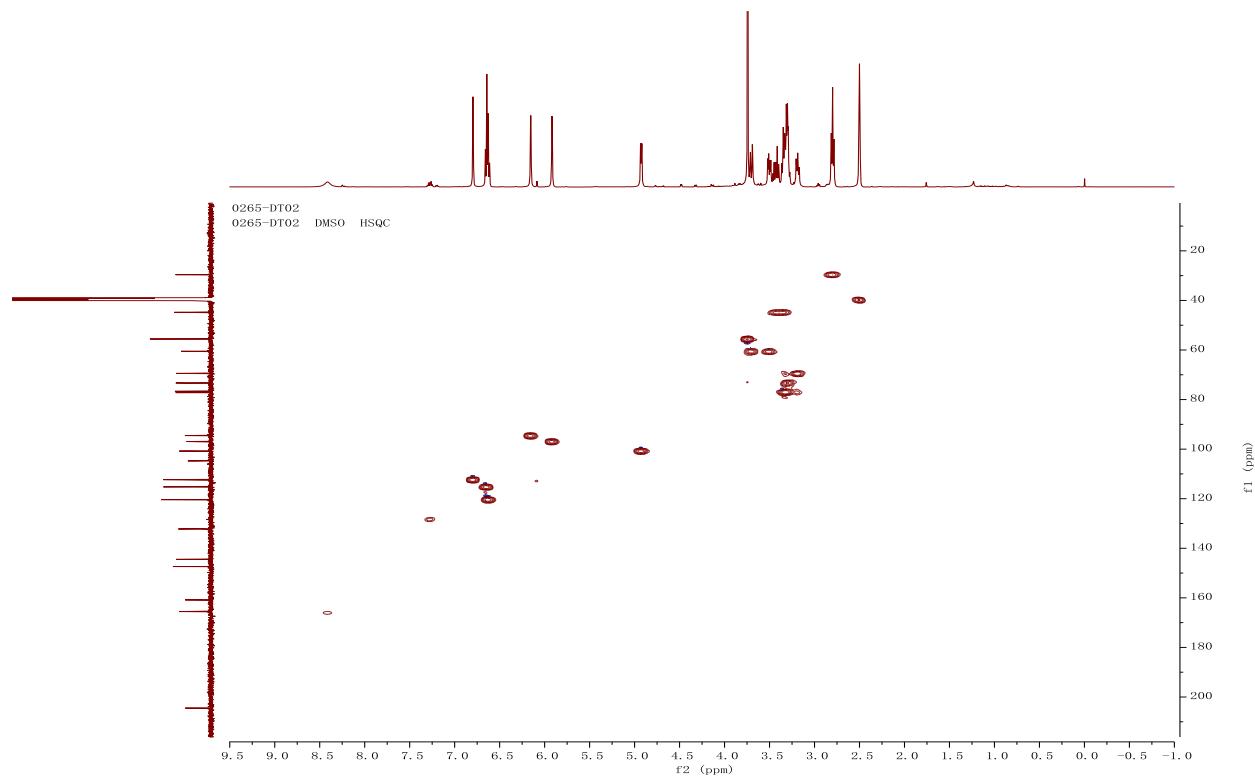


Figure S18 HSQC NMR spectrum of compound 3

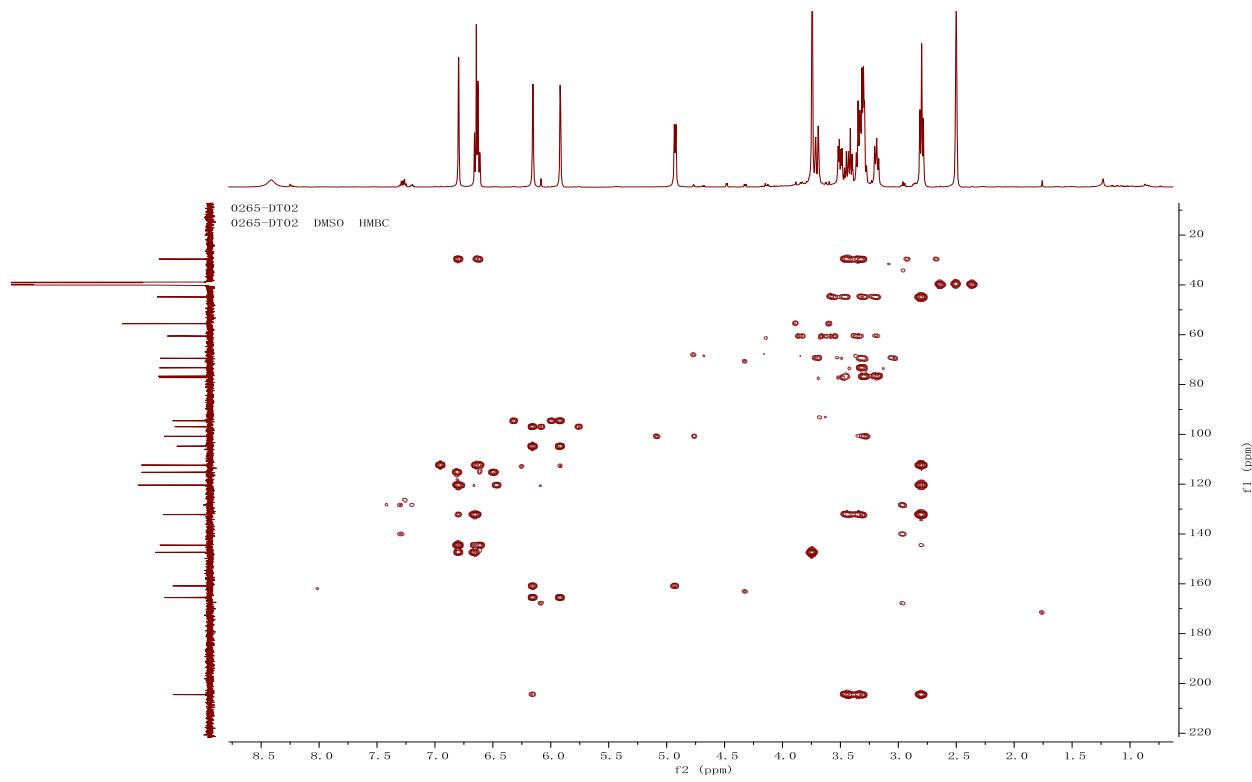


Figure S19 HMBC NMR spectrum of compound 3

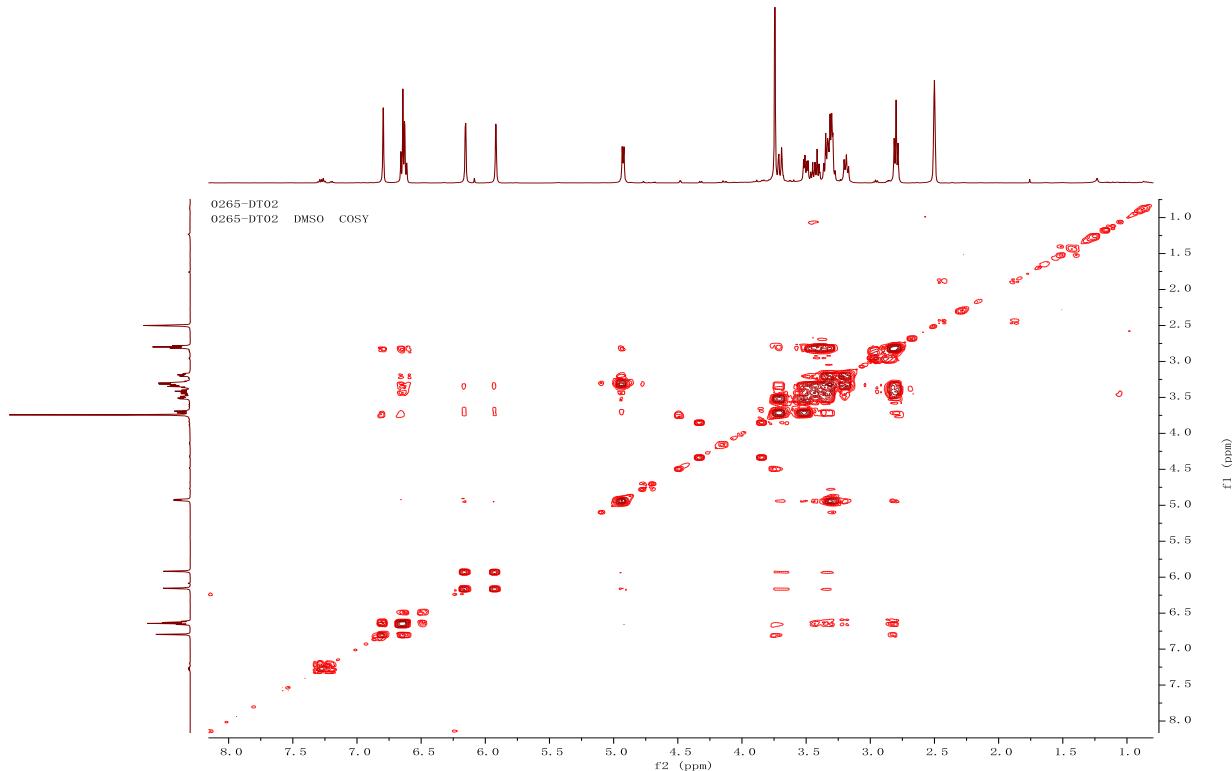


Figure S20 ^1H - ^1H COSY NMR spectrum of compound 3

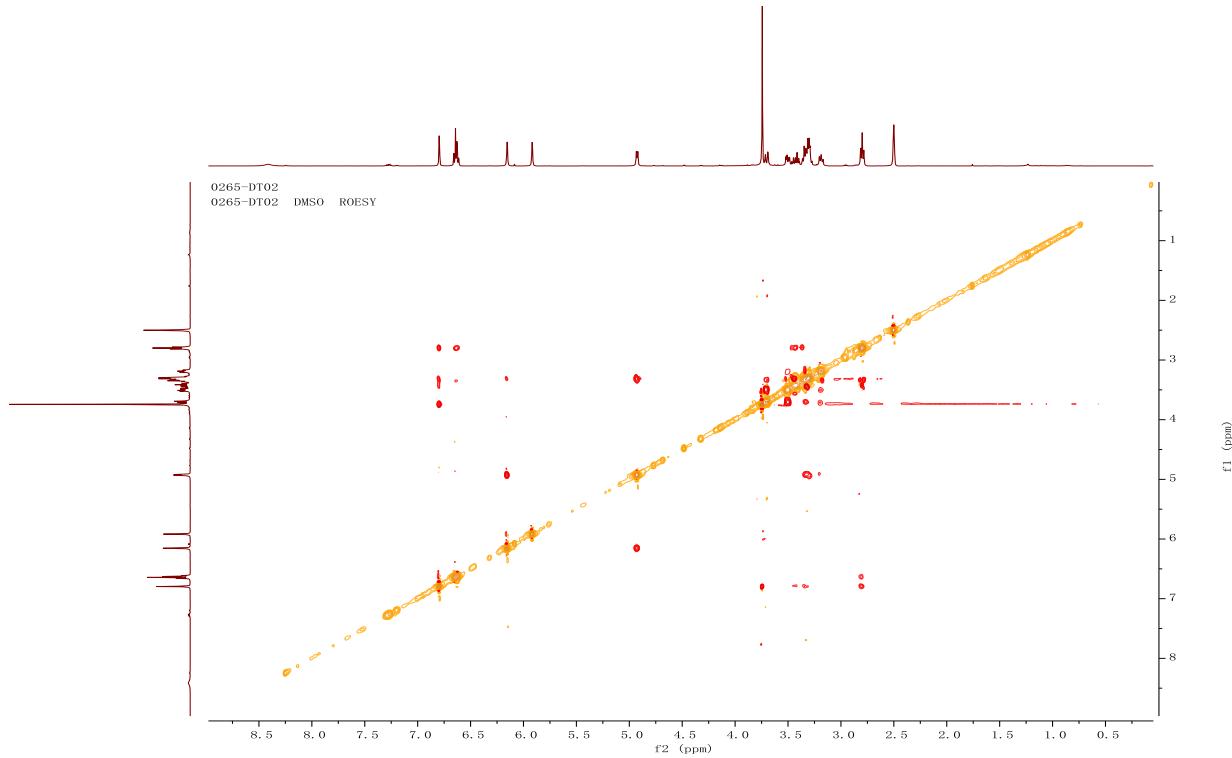


Figure S21 ROESY NMR spectrum of compound 3

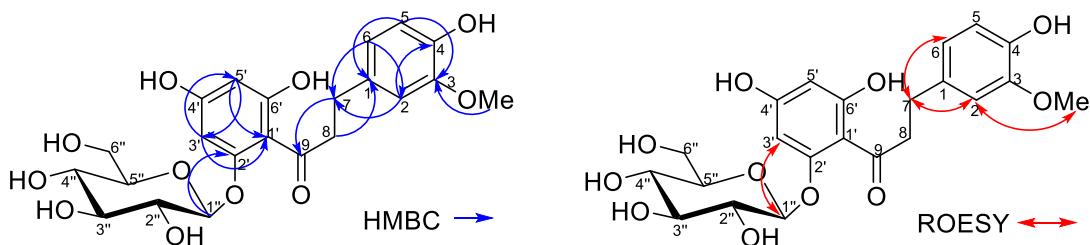


Figure S22 Key HMBC and ROESY correlations of compound 3

Spectrum from 20180810_新化合物-DT06_....626 to 2.948 min), Recalibrated

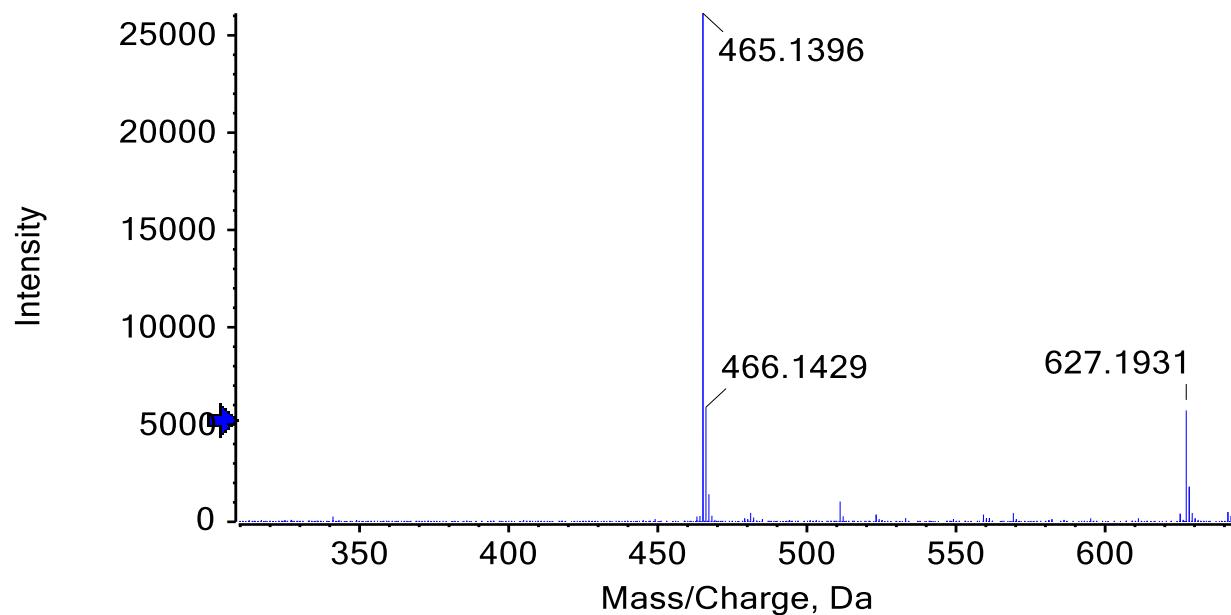


Figure S23 HRMS spectrum of compound 4

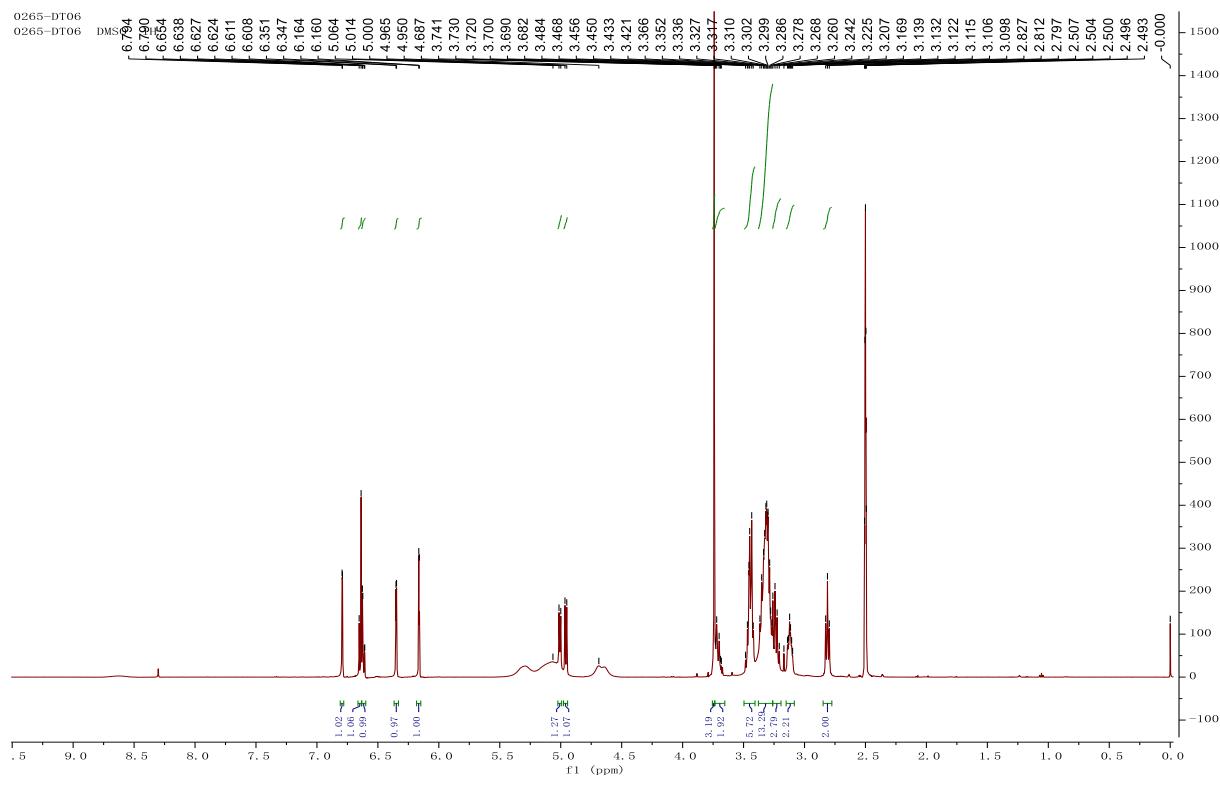


Figure S24 ¹H NMR spectrum of compound 4

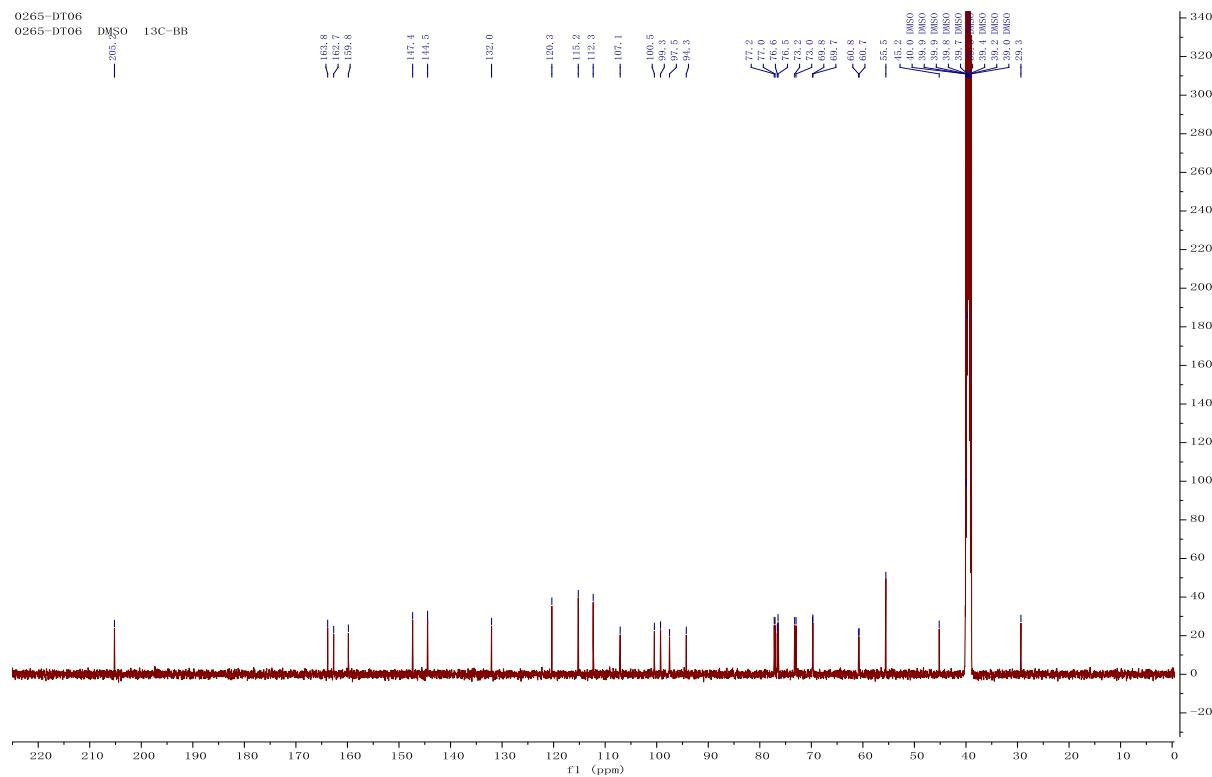


Figure S25 ^{13}C NMR spectrum of compound 4

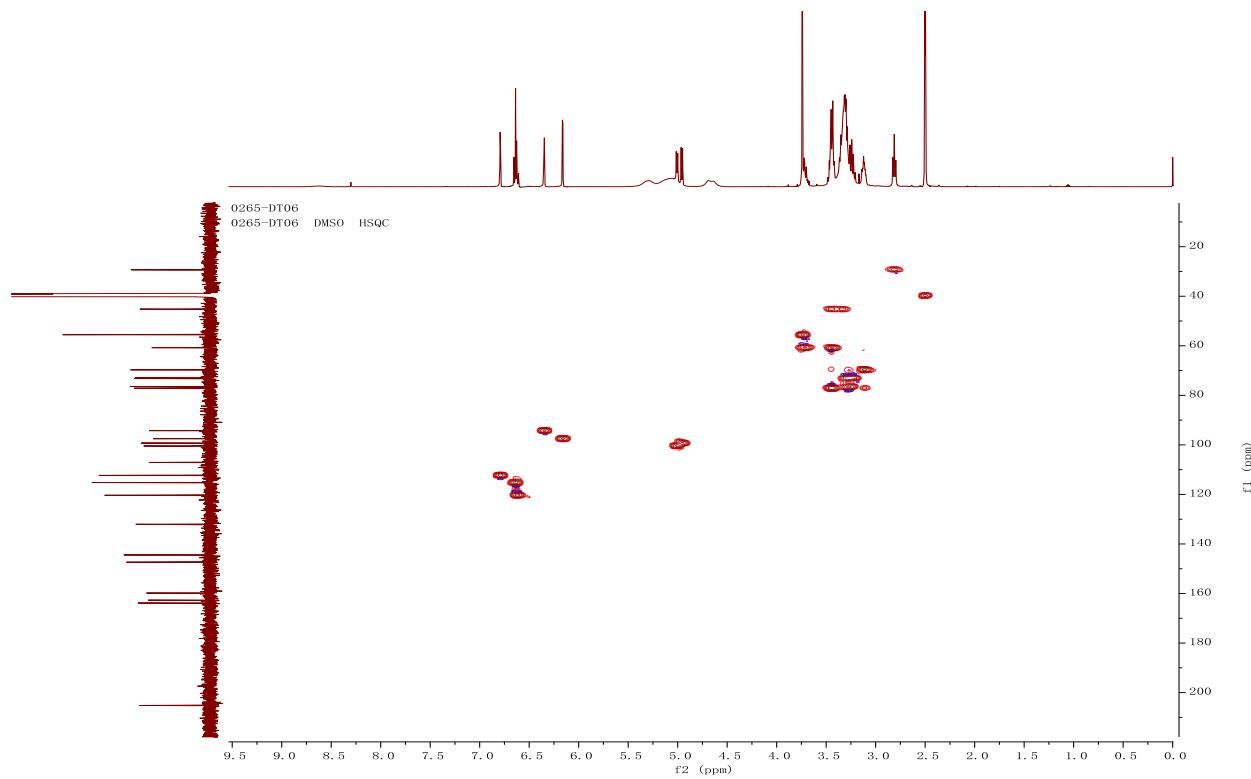


Figure S26 HSQC NMR spectrum of compound 4

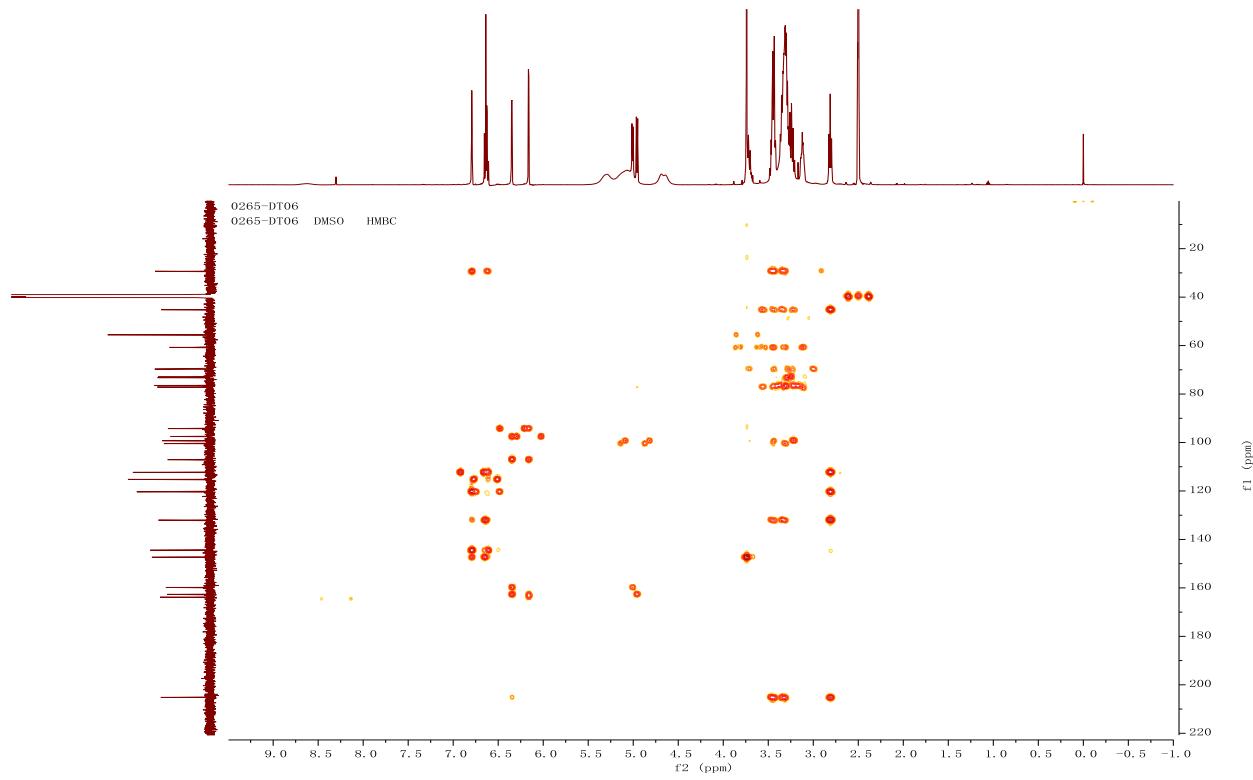


Figure S27 HMBC NMR spectrum of compound 4

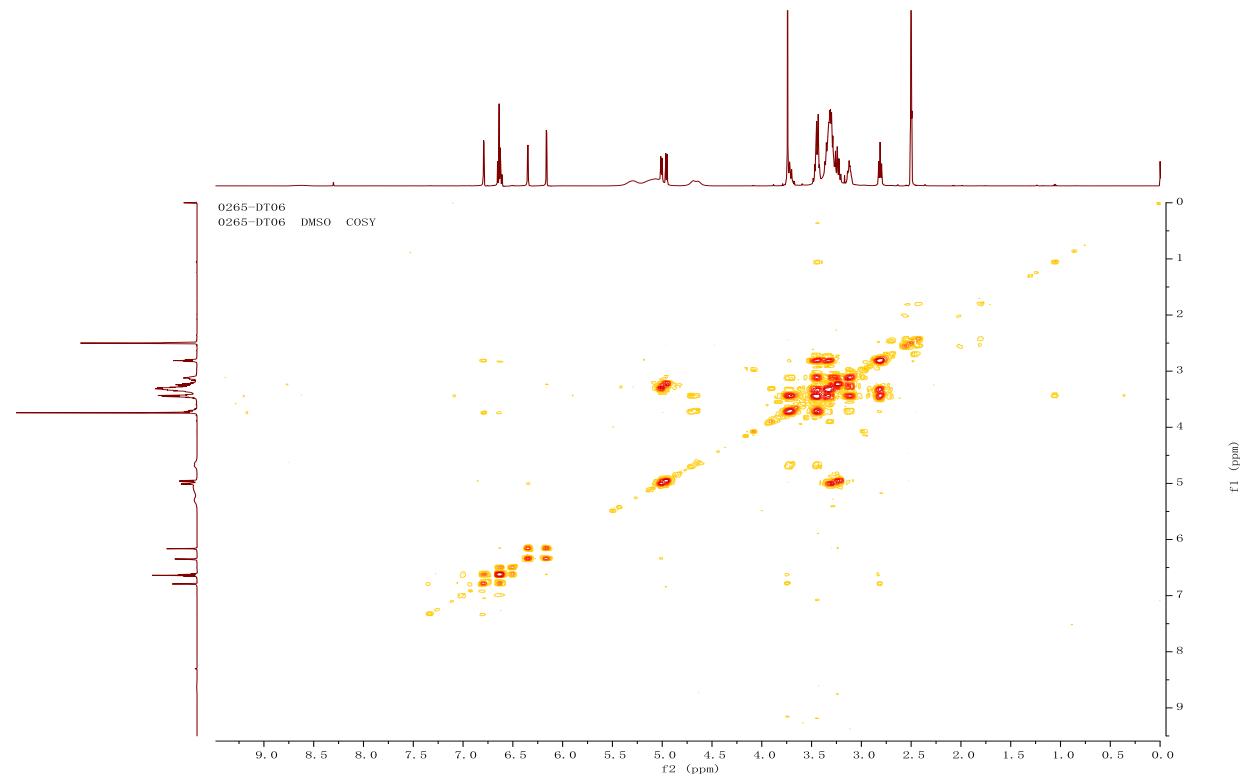


Figure S28 ^1H - ^1H COSY NMR spectrum of compound 4

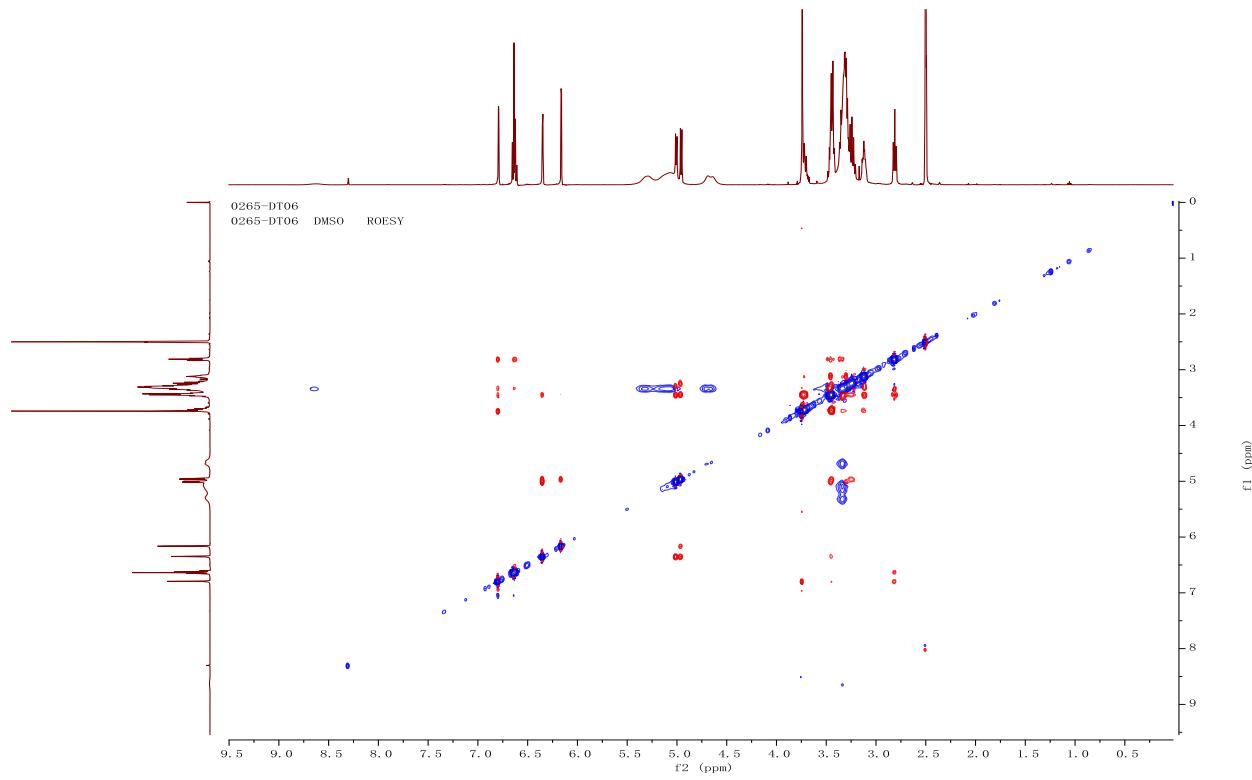


Figure S29 ROESY NMR spectrum of compound 4

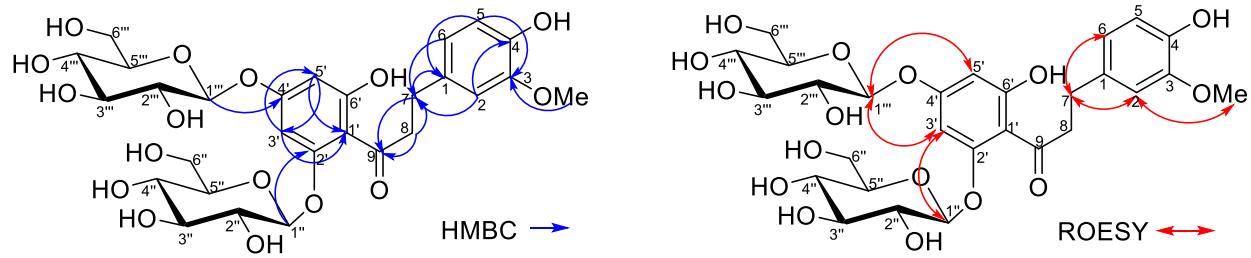


Figure S30 Key HMBC and ROESY correlations of compound 4

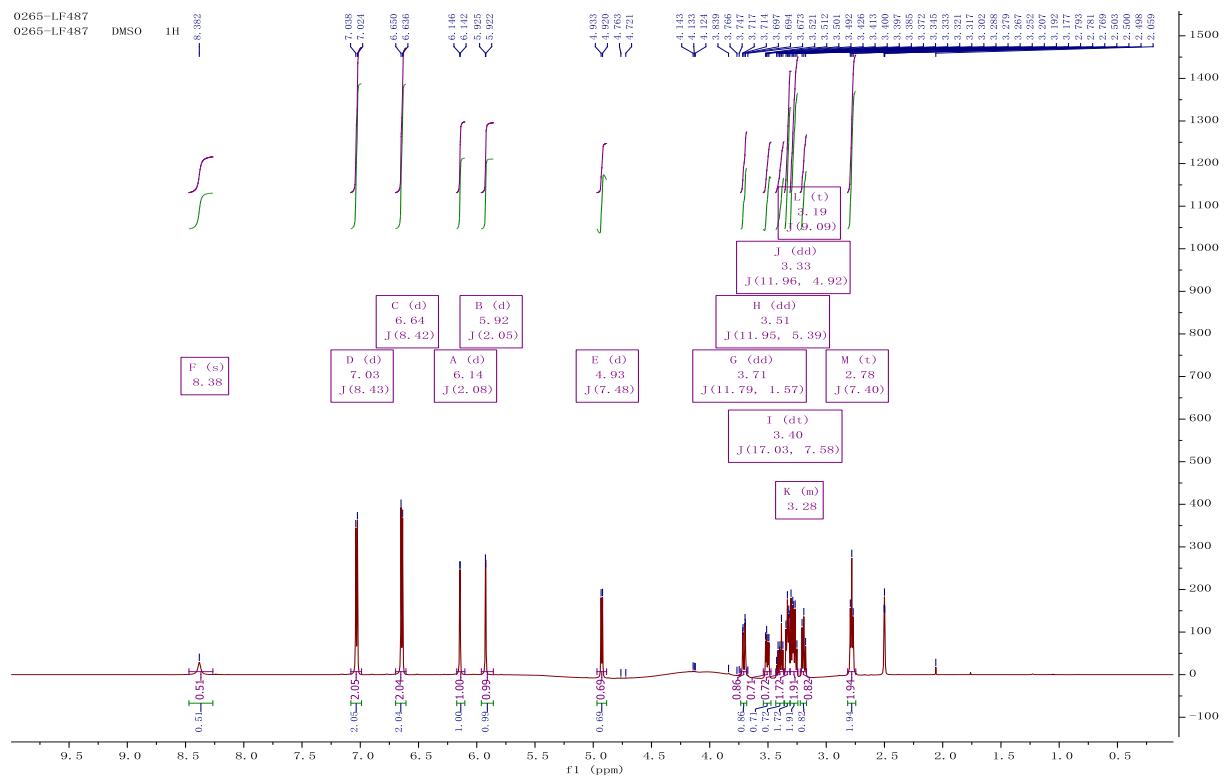


Figure S31 ^1H NMR spectrum of compound **5**

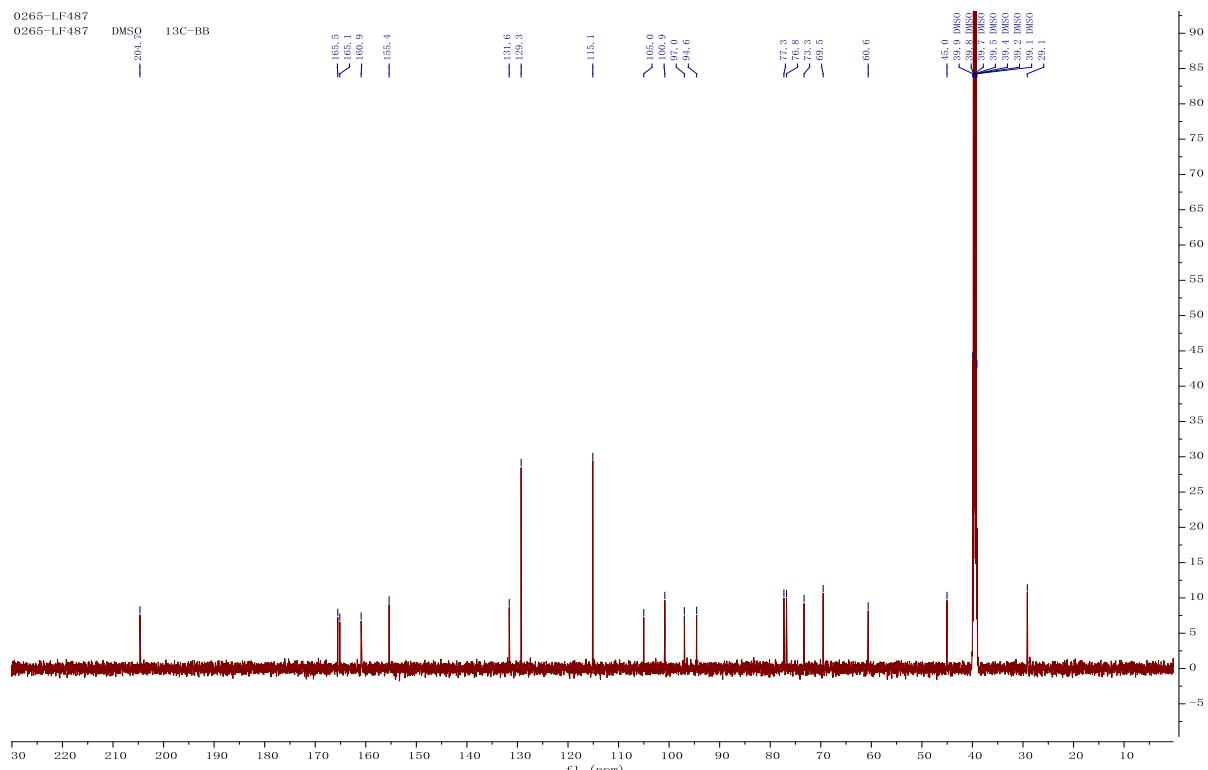


Figure S32 ^{13}C NMR spectrum of compound 5

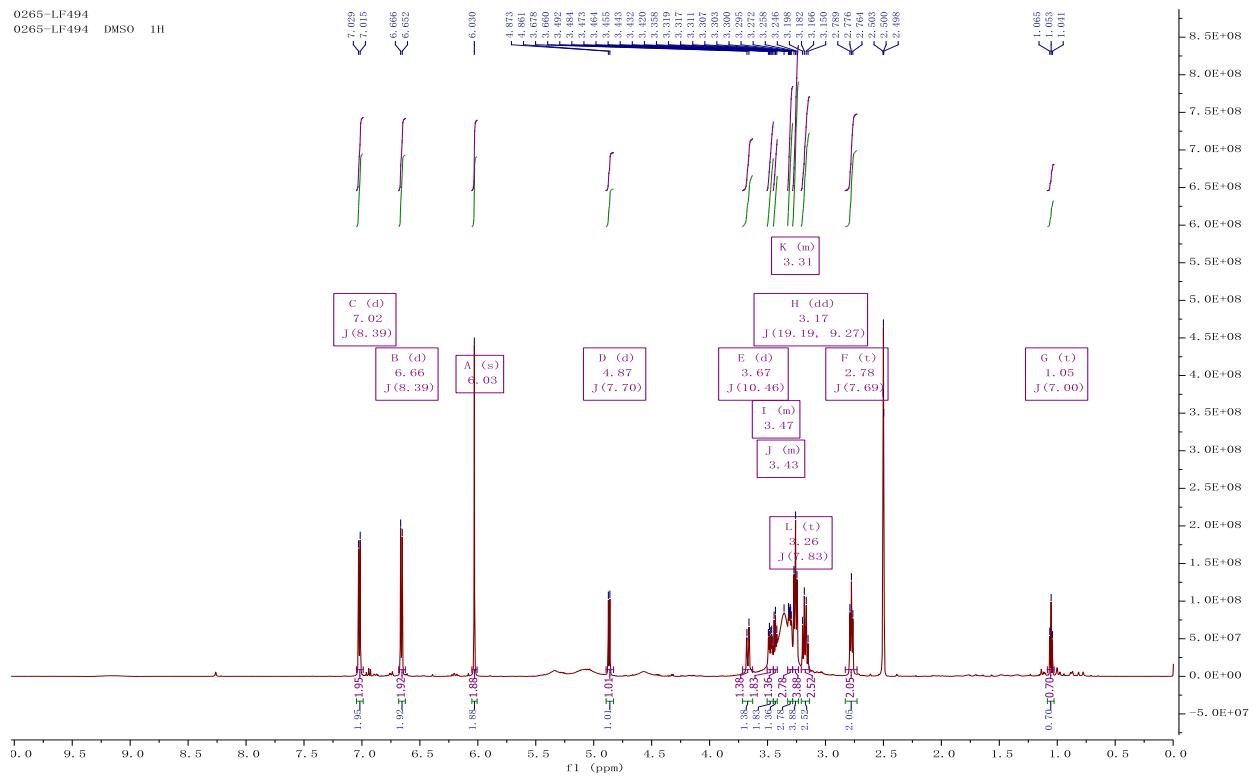


Figure S33 ^1H NMR spectrum of compound **6**

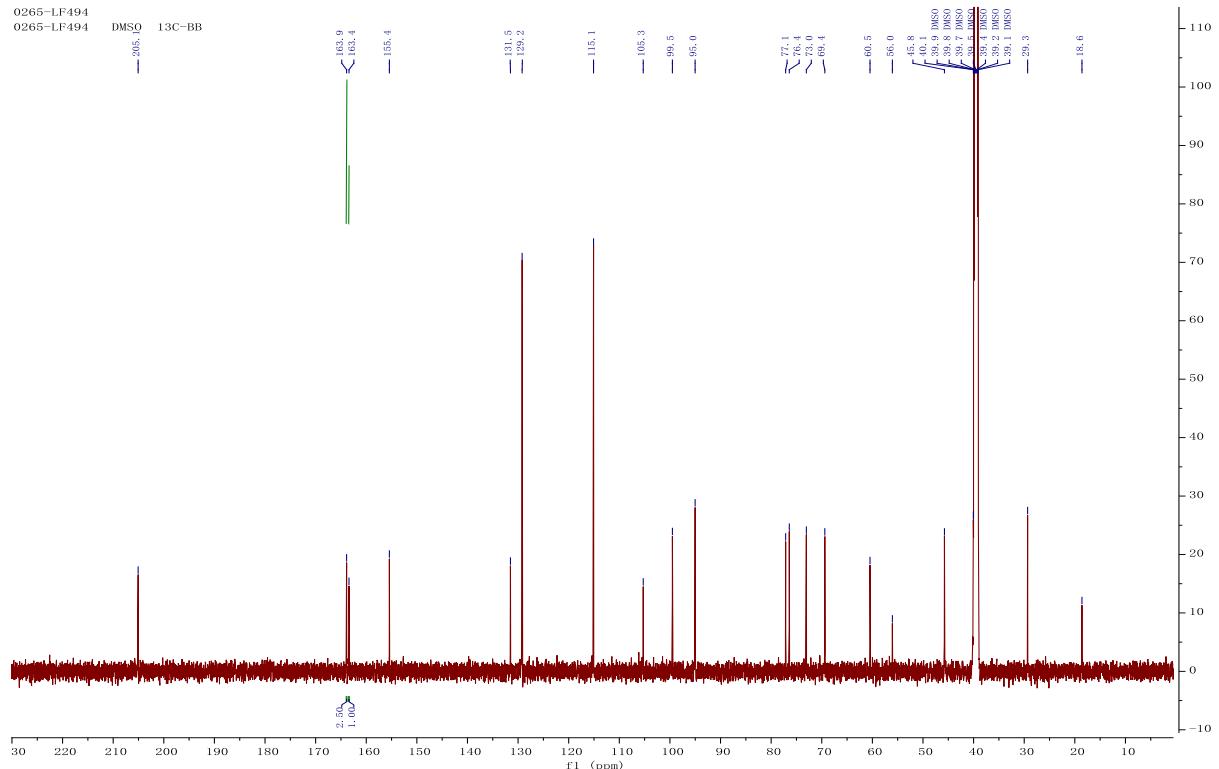


Figure S34 ^{13}C NMR spectrum of compound **6**

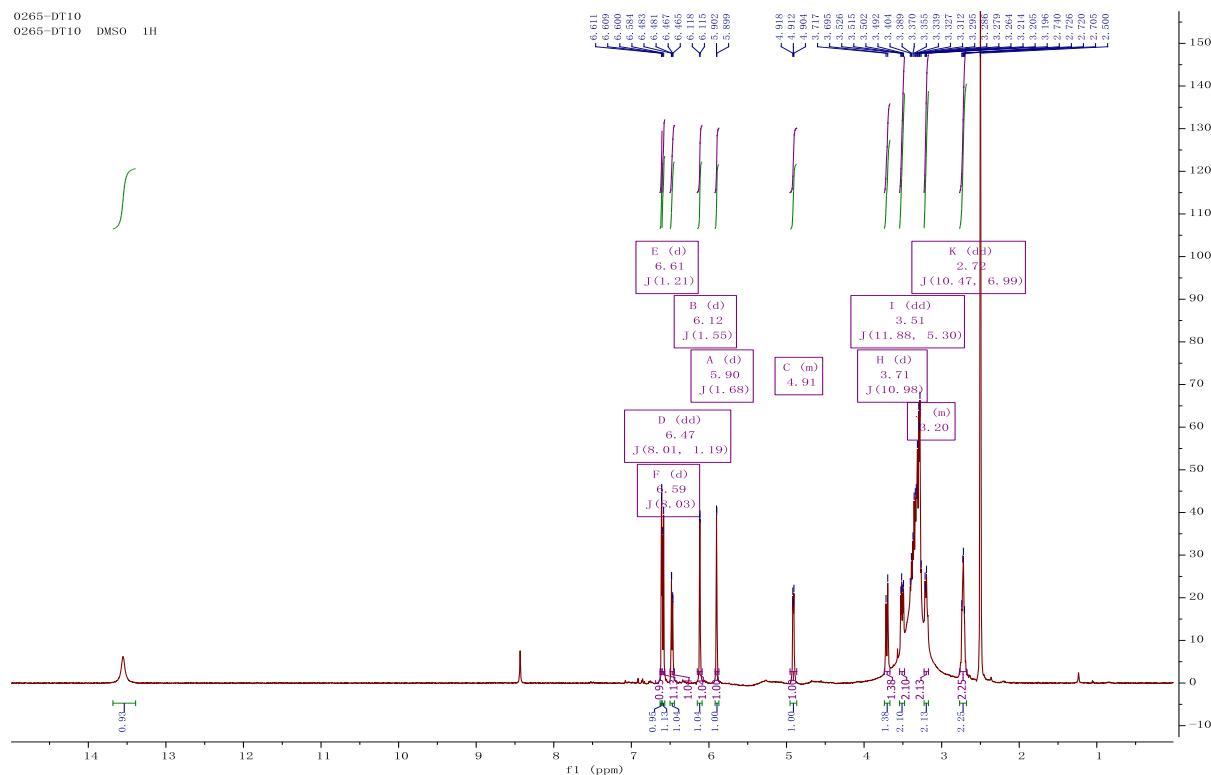


Figure S35 ^1H NMR spectrum of compound 7

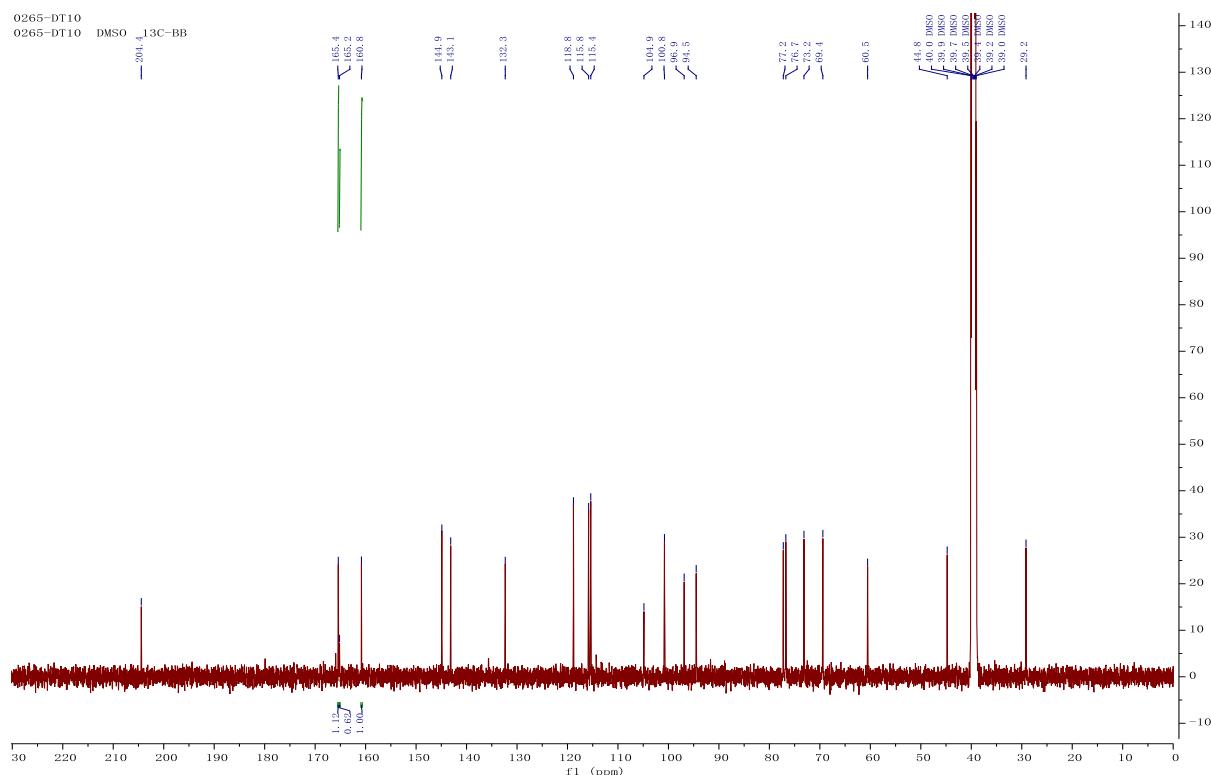


Figure S36 ^{13}C NMR spectrum of compound 7

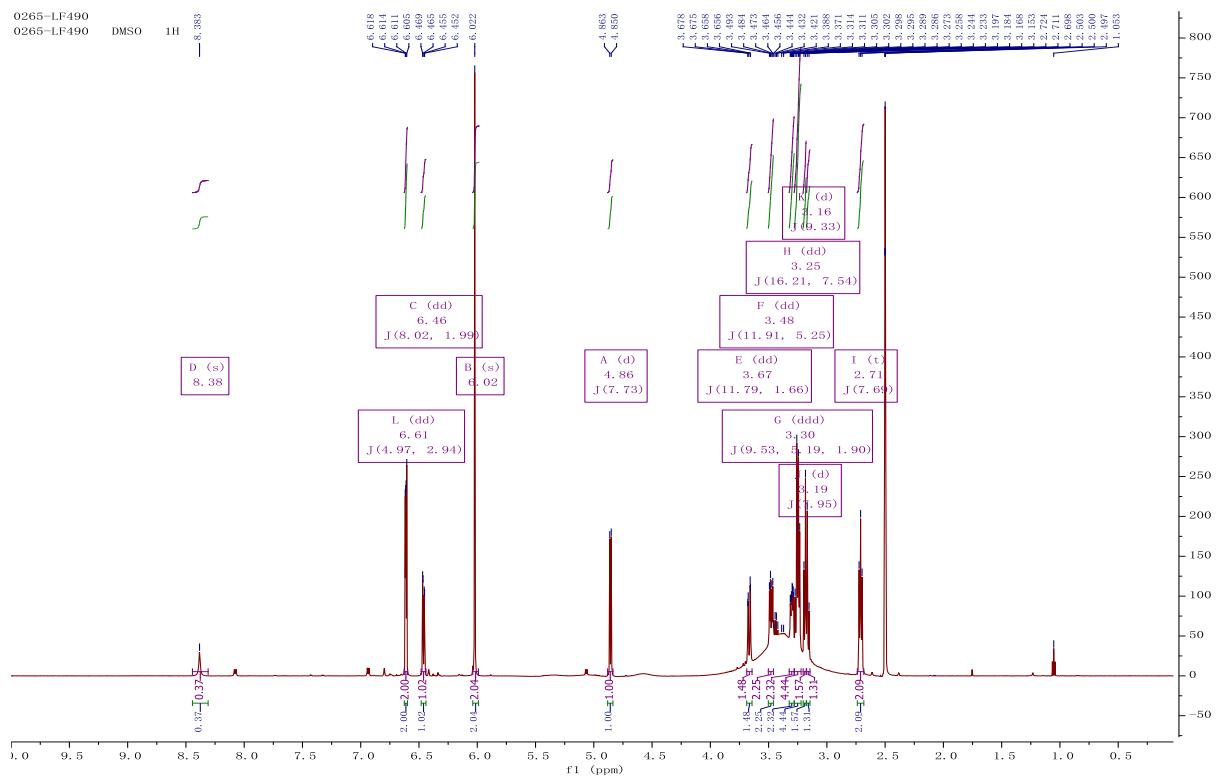


Figure S37 ^1H NMR spectrum of compound 8

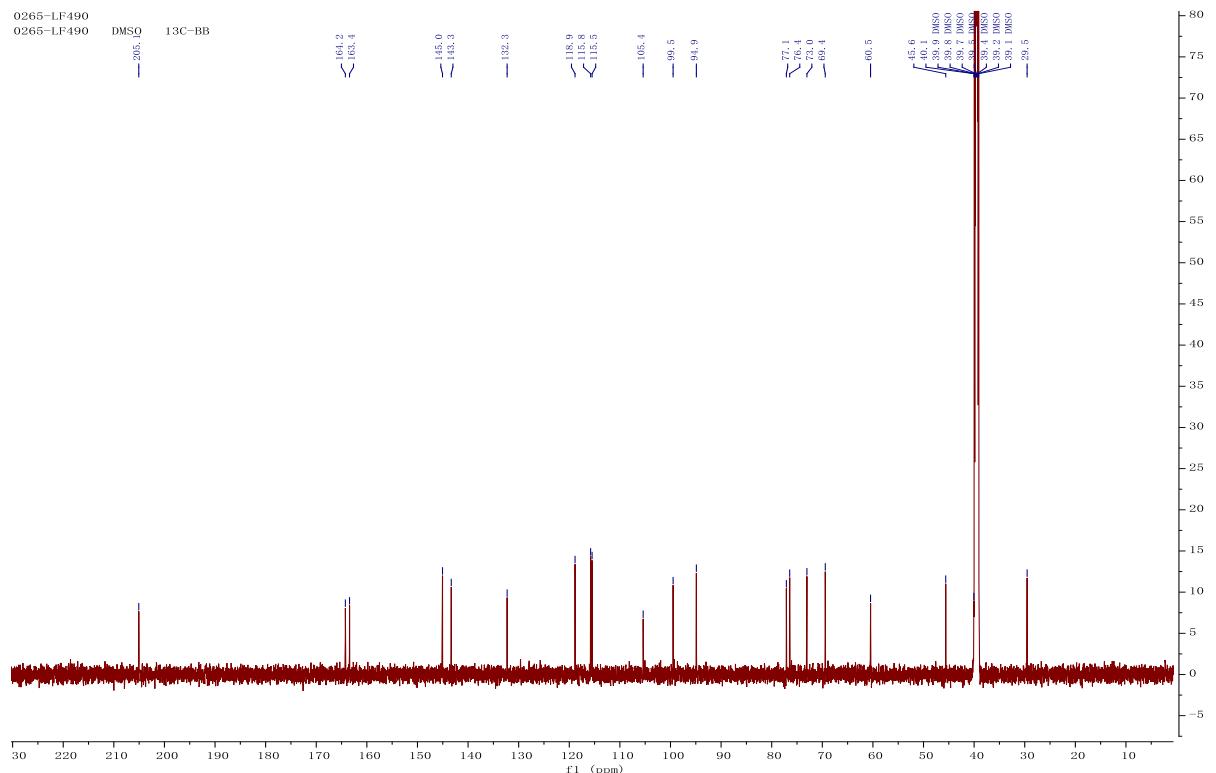


Figure S38 ^{13}C NMR spectrum of compound 8



Figure S39 Pictures of *Balanophora harlandii* (A: male plant; B: female plant)

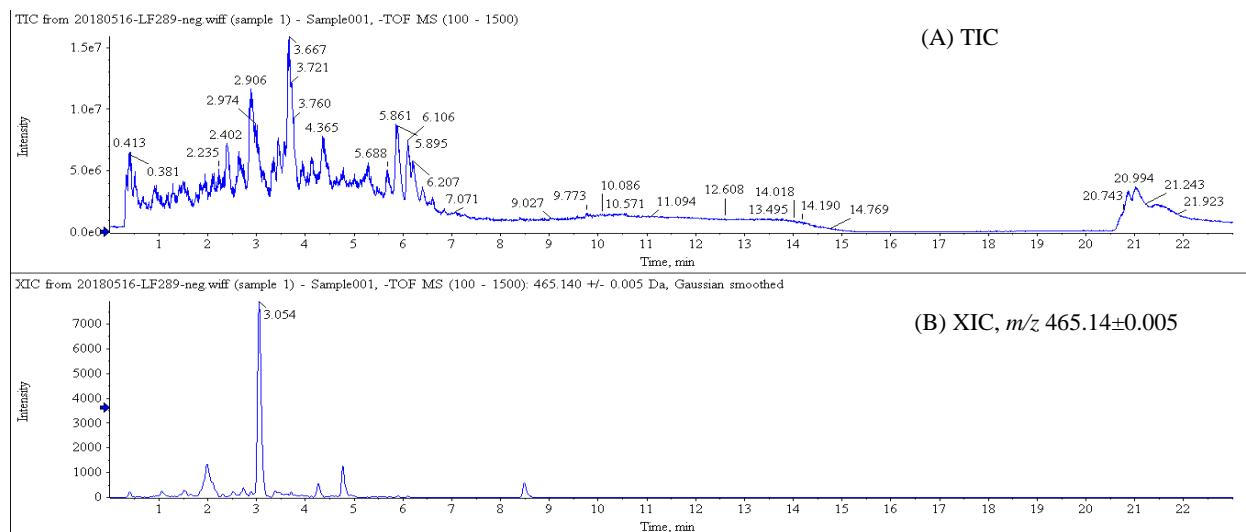


Figure S40 (A) TIC chromatogram of Fr.1; (B) Corresponding XIC chromatogram

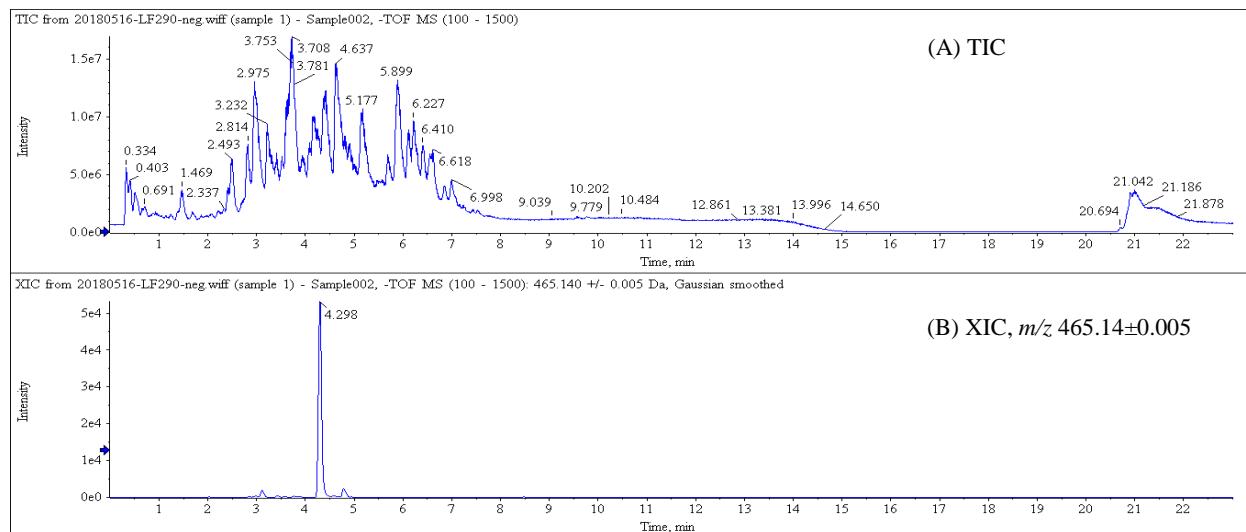


Figure S41 (A) TIC chromatogram of Fr.2; (B) Corresponding XIC chromatogram

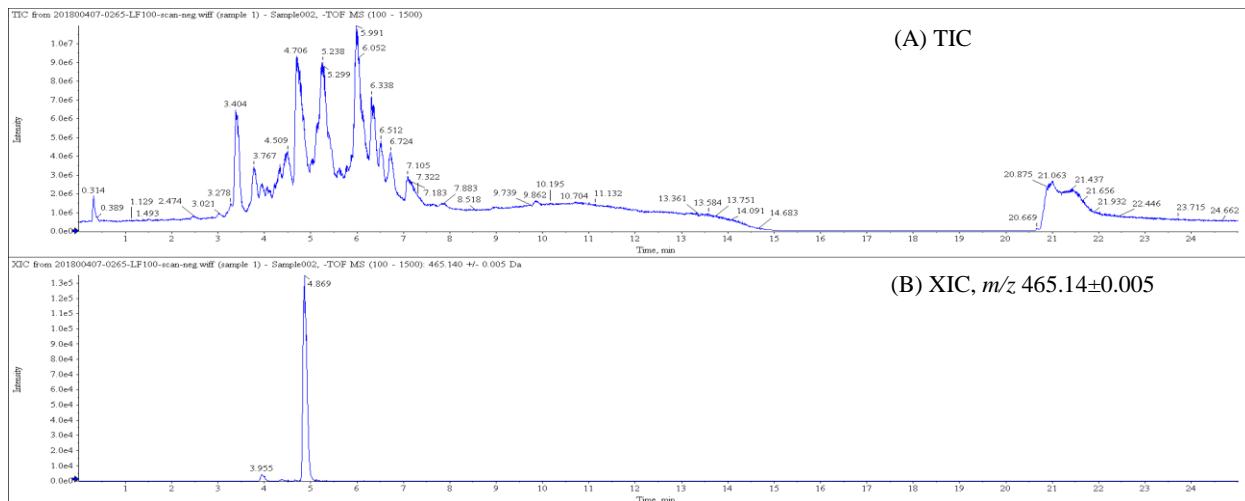


Figure S42 (A) TIC chromatogram of Fr.3; (B) Corresponding XIC chromatogram

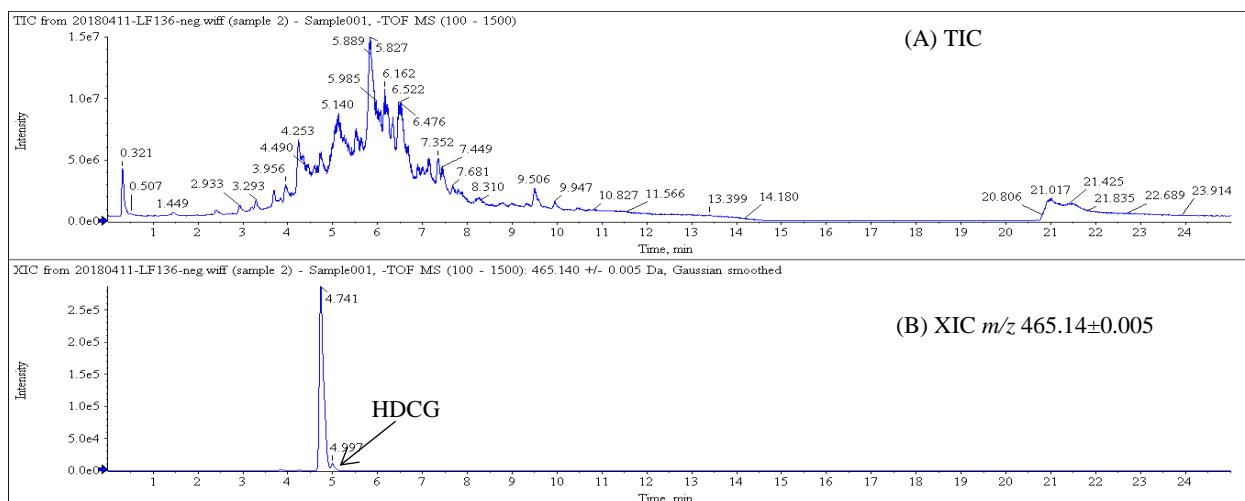


Figure S43 (A) TIC chromatogram of Fr.4; (B) Corresponding XIC chromatogram

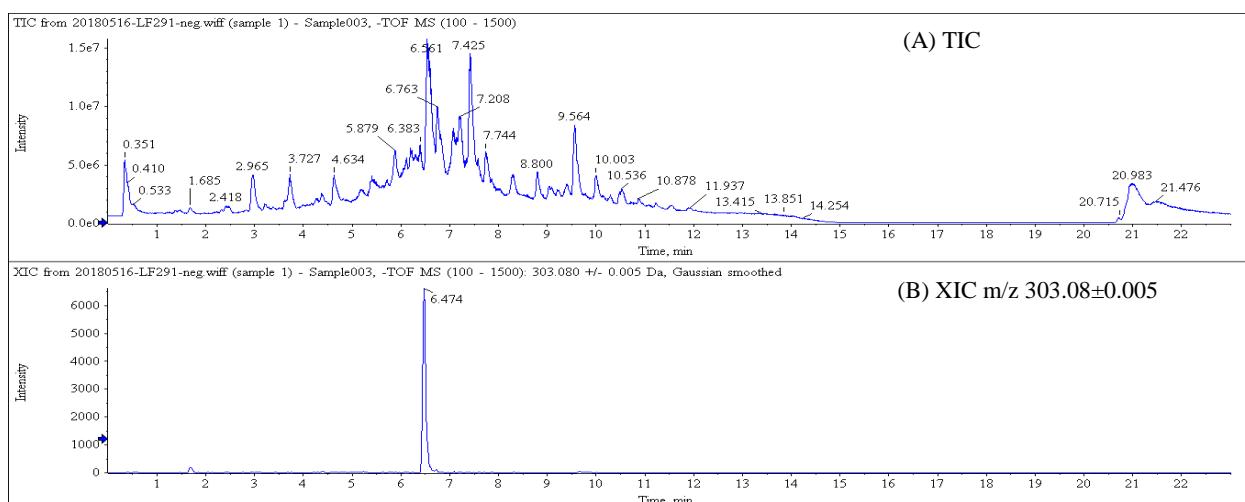


Figure S44 (A) TIC chromatogram of Fr.5; (B) Corresponding XIC chromatogram