

Supplementary Information

Table S1. The morphological species and collected location of soft coral samples.

Morphological Species	Collected Location
<i>Dendronephthya</i> sp.	Weizhou Island
<i>Dendronephthya</i> sp.	Weizhou Island
<i>Sinularia</i> sp.	Weizhou Island
<i>Sinularia</i> sp.	Weizhou Island
<i>Cladiella</i> sp.	Weizhou Island
<i>Sarcophyton ehrenbergi</i>	Weizhou Island
unidentified	Weizhou Island
unidentified	Weizhou Island
<i>Sinularia capillosa</i>	Sanya Bay
<i>Sinularia capillosa</i>	Sanya Bay
<i>Sinularia gibberosa</i>	Sanya Bay
<i>Sarcophyton trocheliophorum</i>	Sanya Bay
<i>Dendronephthya</i> sp.	Sanya Bay
unidentified	Sanya Bay
unidentified	Sanya Bay
unidentified	Sanya Bay
unidentified	Sanya Bay
unidentified	Sanya Bay
unidentified	Sanya Bay
unidentified	Sanya Bay

Figure S1. ^1H -NMR spectrum for compound **1**.

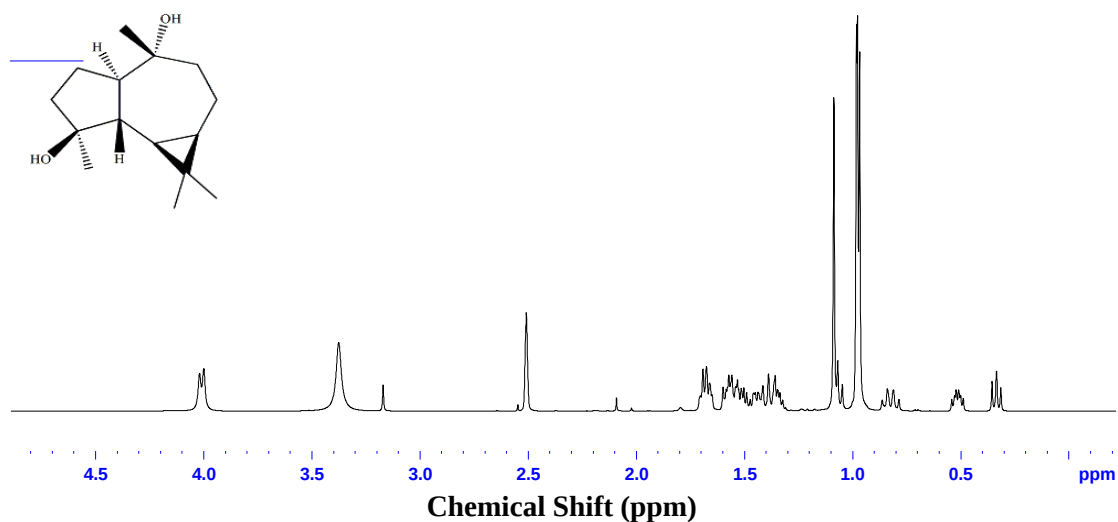


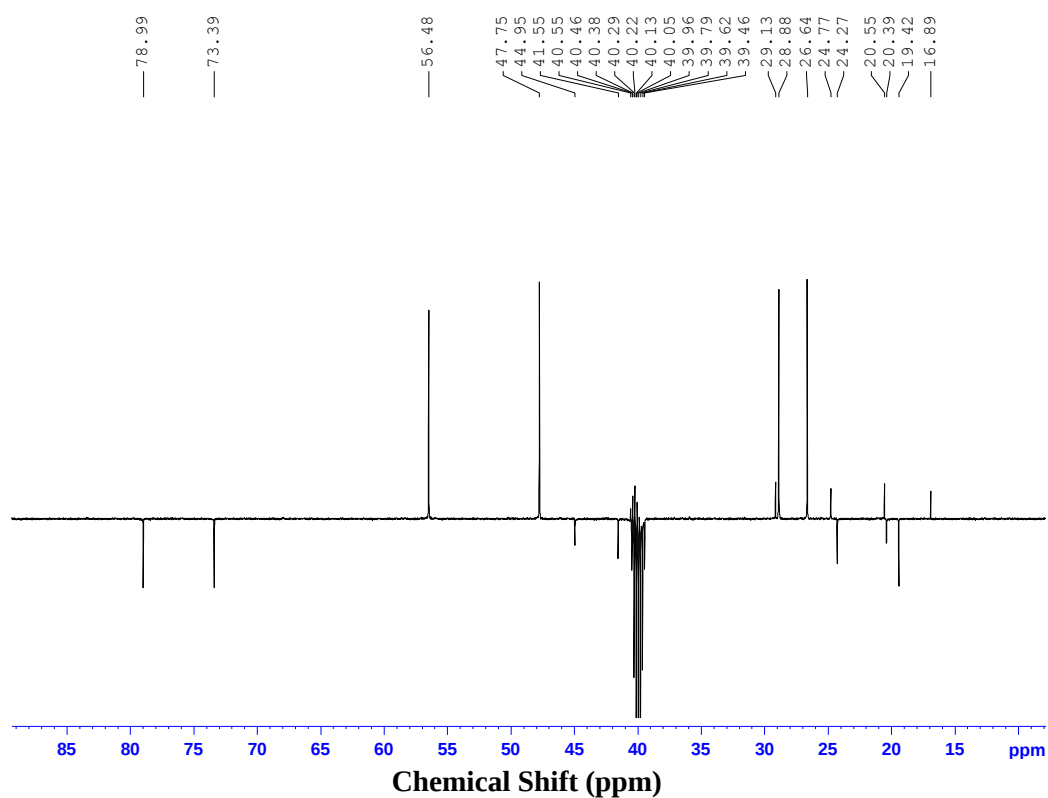
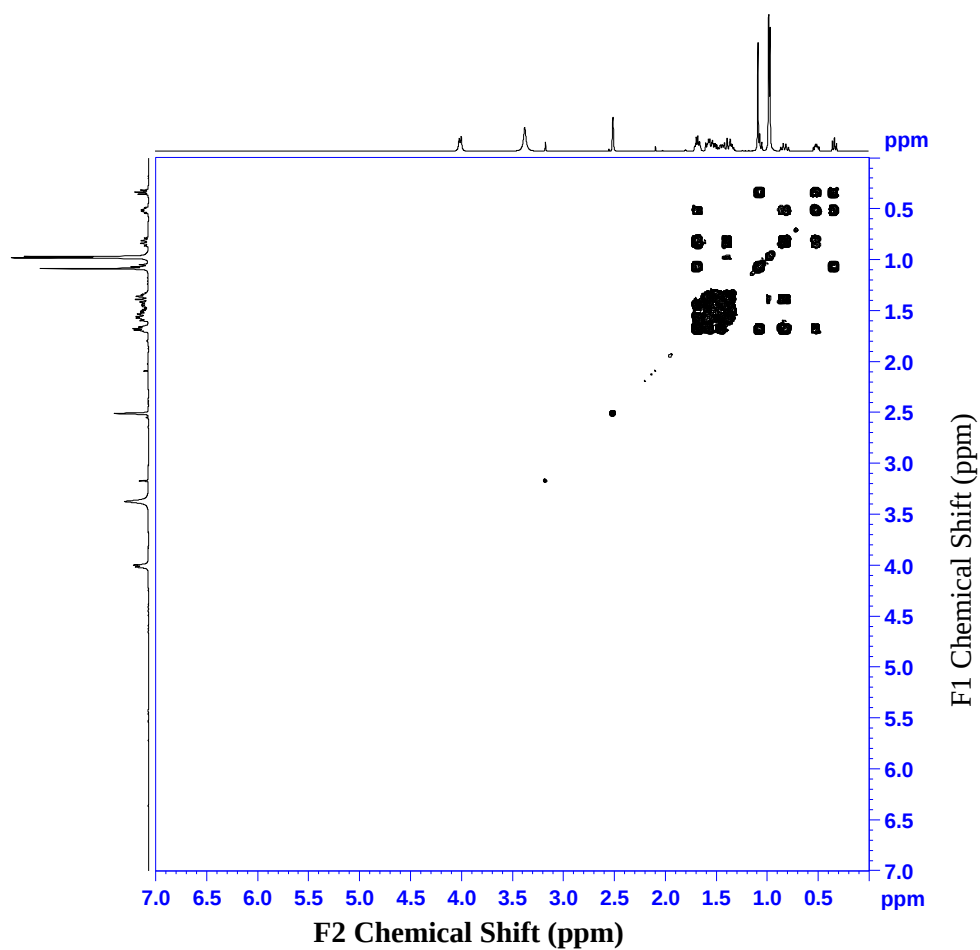
Figure S2. DEPTQ NMR spectrum for compound 1.**Figure S3.** COSY NMR spectrum for compound 1.

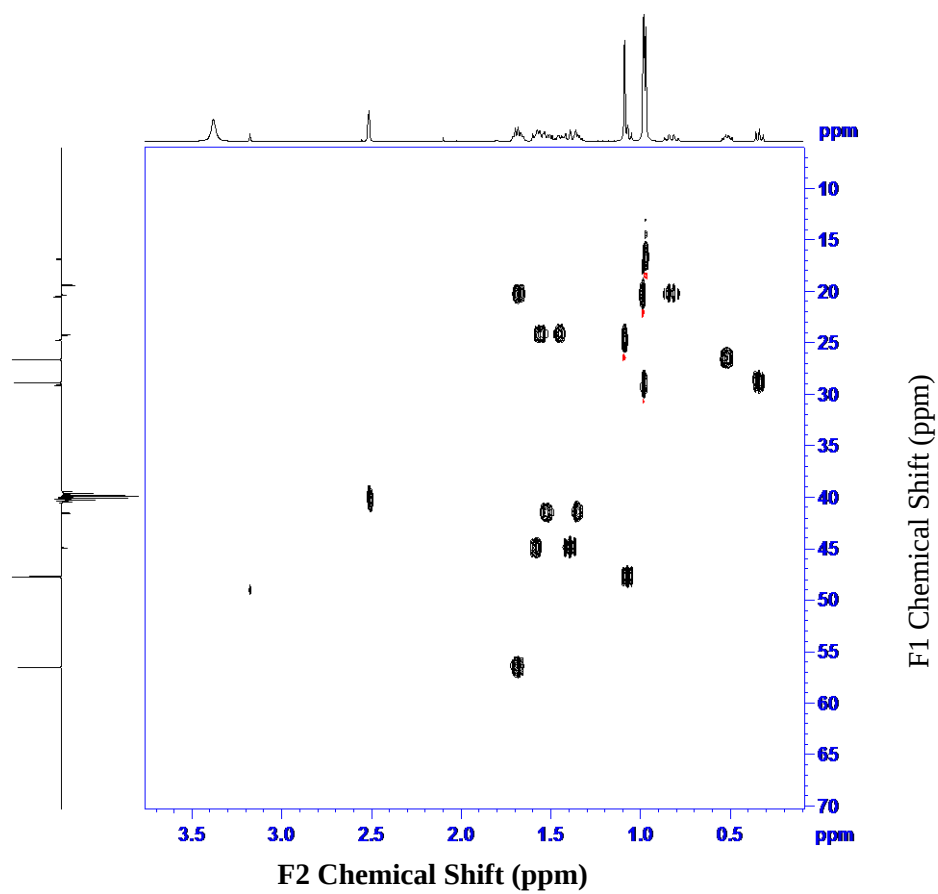
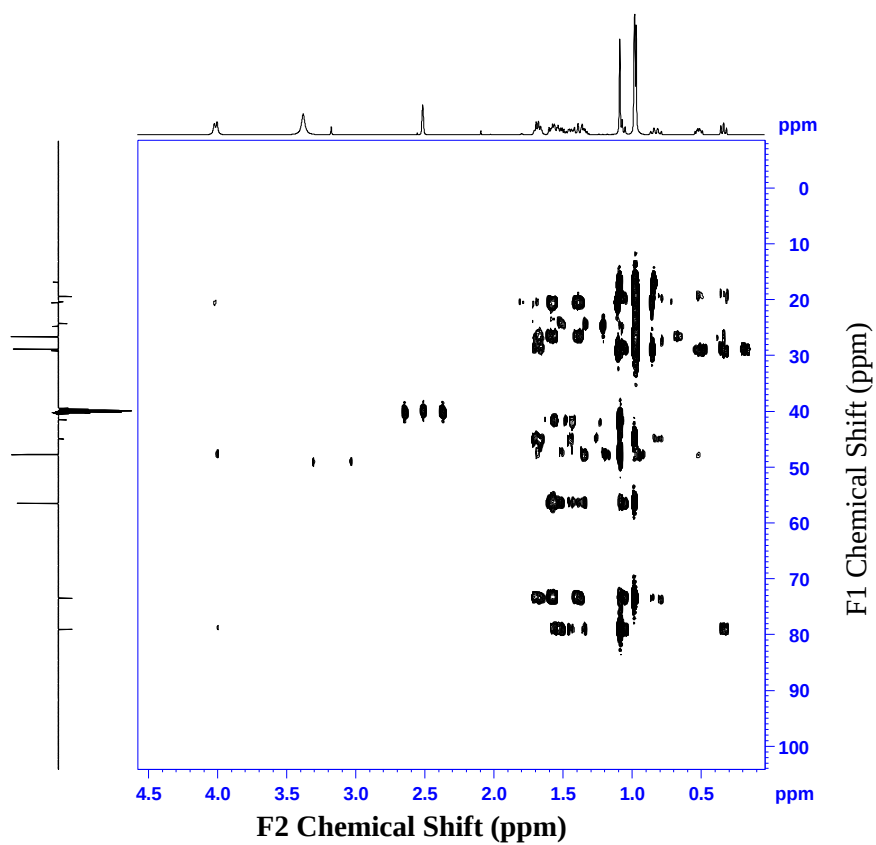
Figure S4. HSQC NMR spectrum for compound 1.**Figure S5.** HMBC NMR spectrum for compound 1.

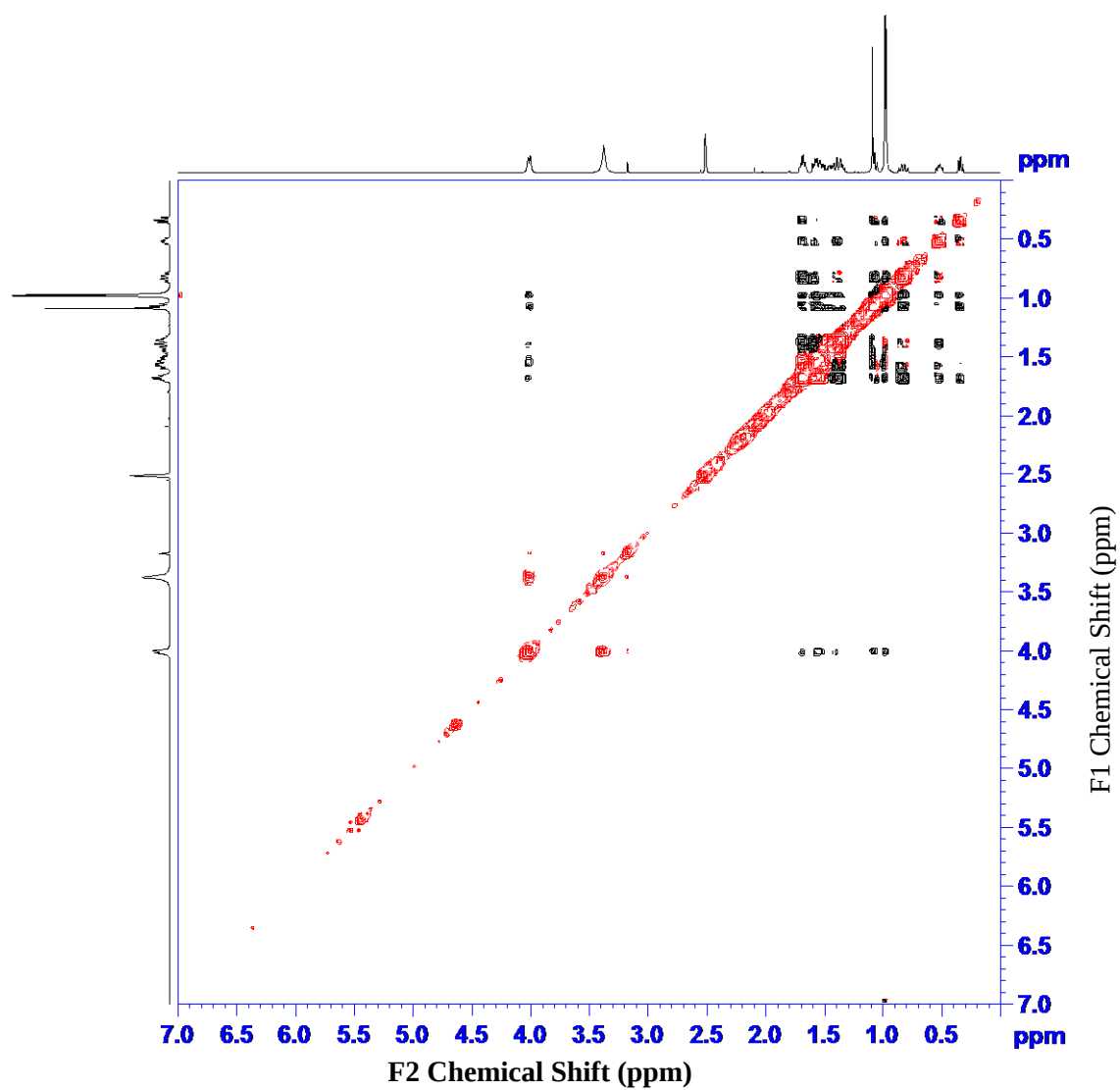
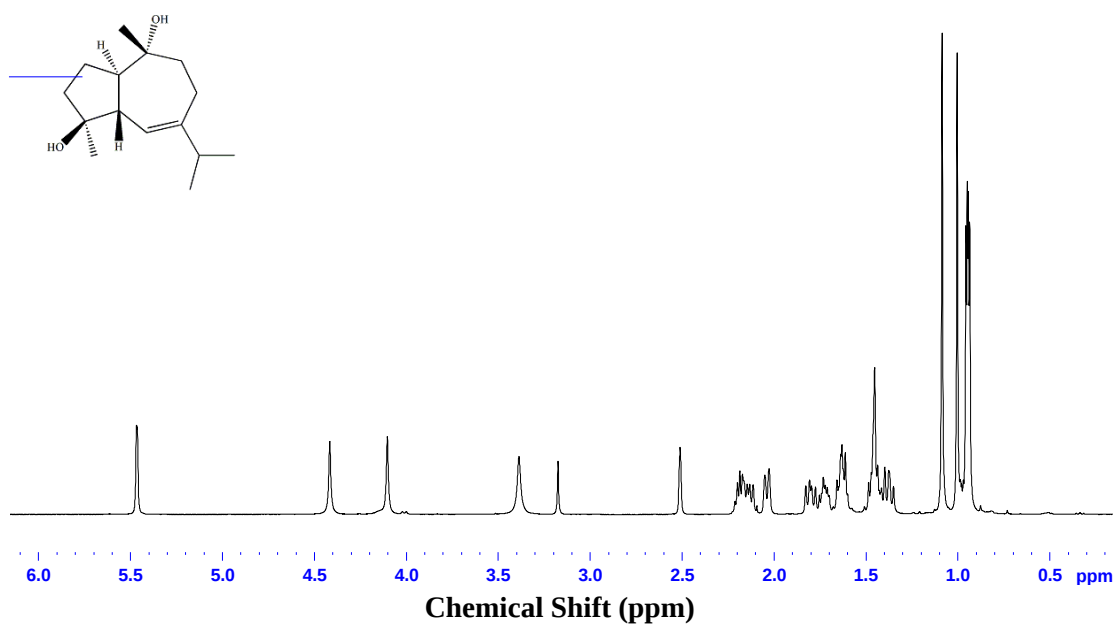
Figure S6. ROESY NMR spectrum for compound 1.**Figure S7.** ^1H -NMR spectrum for compound 2.

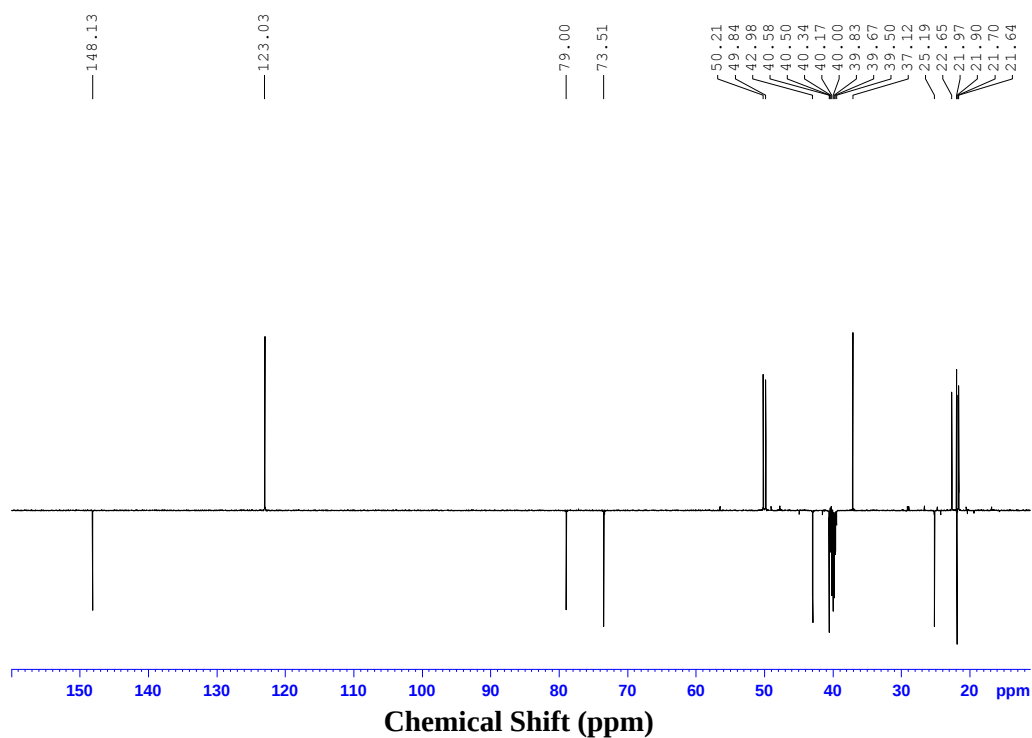
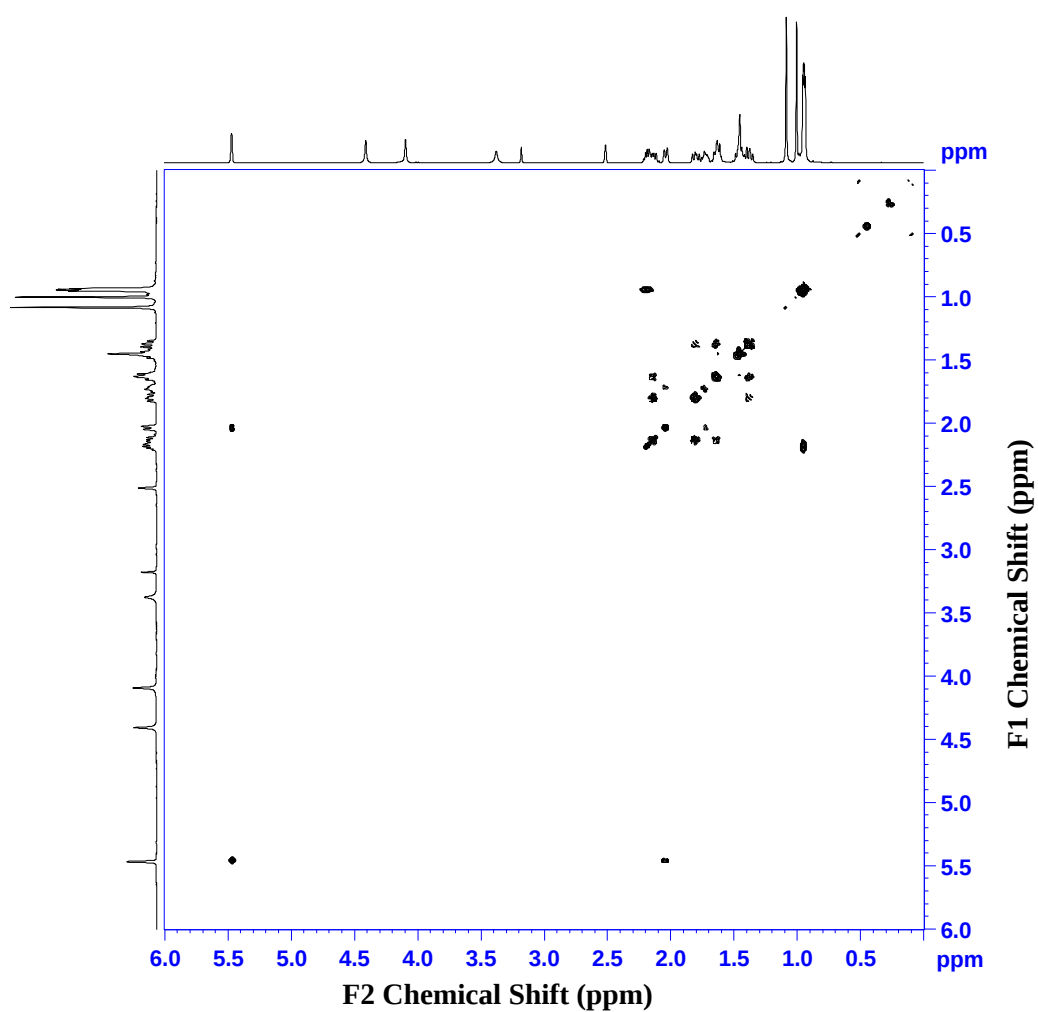
Figure S8. APT NMR spectrum for compound 2.**Figure S9.** COSY NMR spectrum for compound 2.

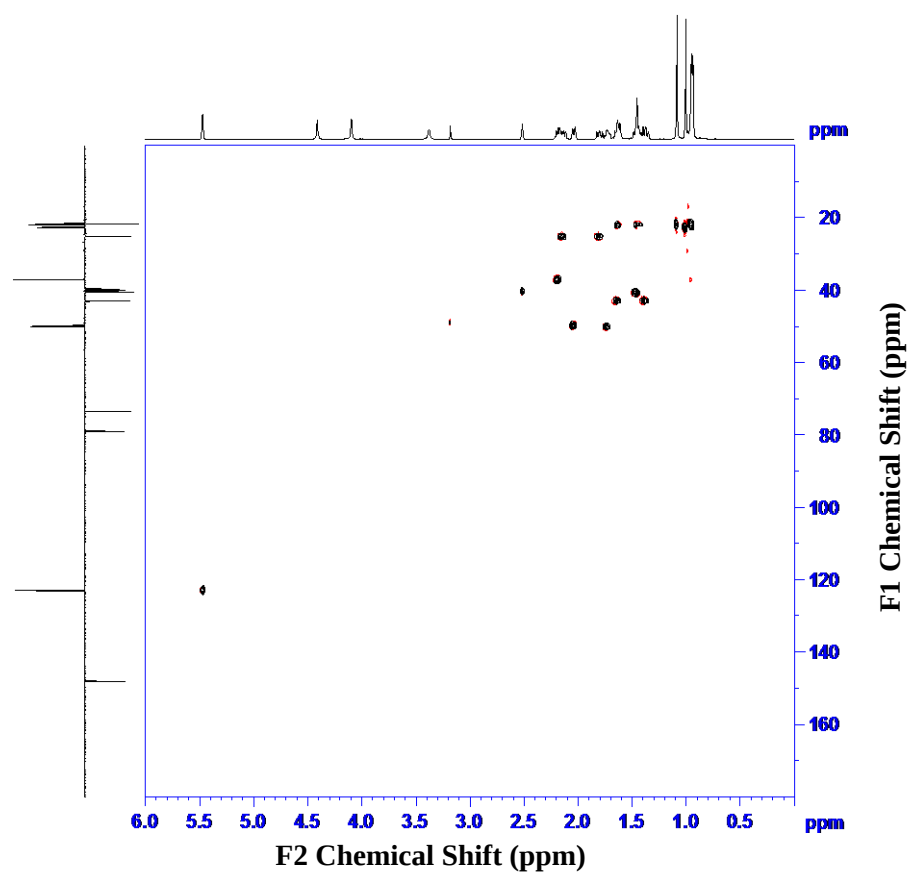
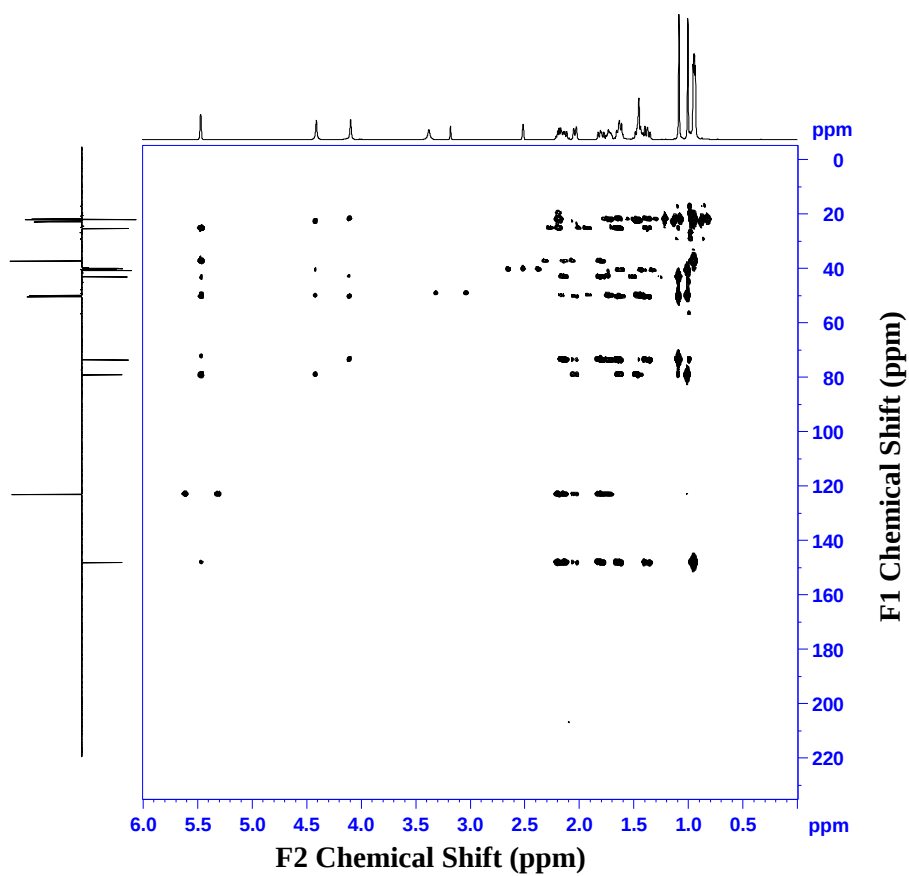
Figure S10. HSQC NMR spectrum for compound 2.**Figure S11.** HMBC NMR spectrum for compound 2.

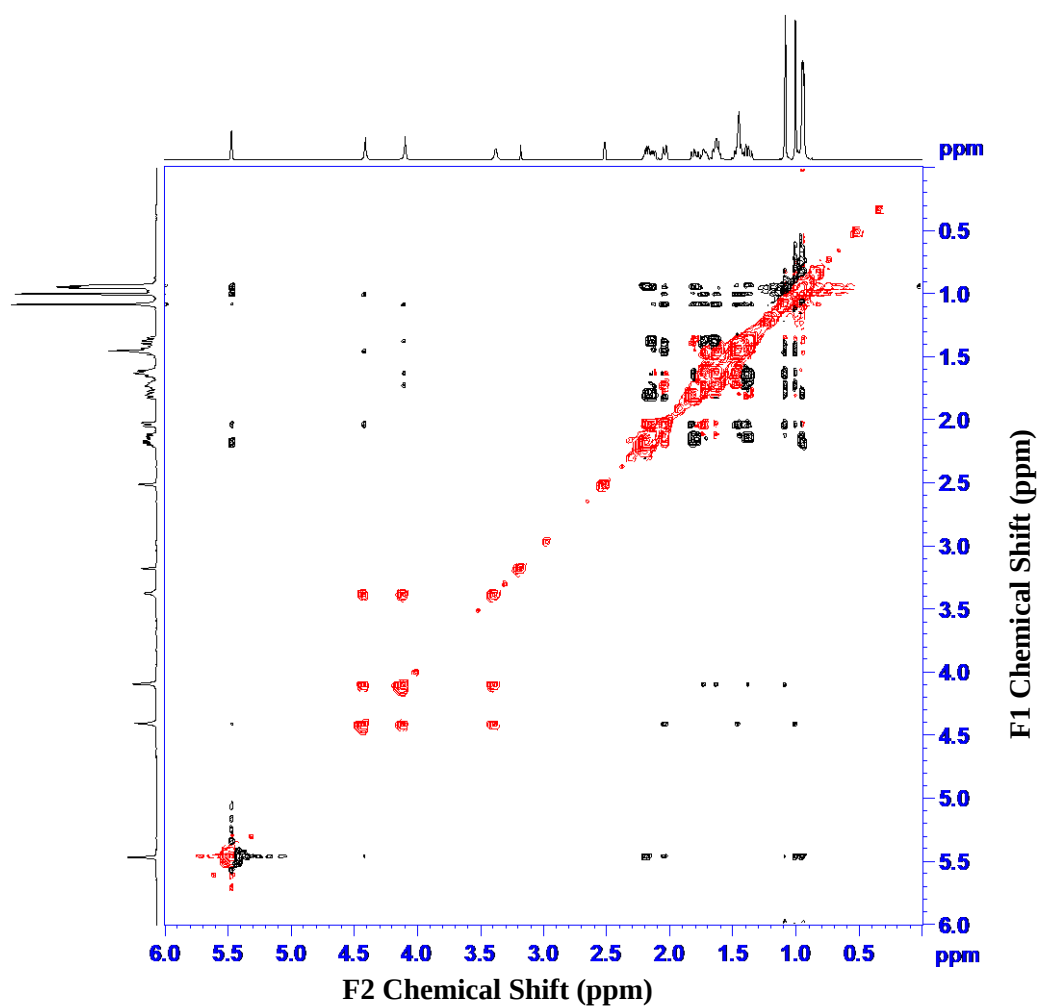
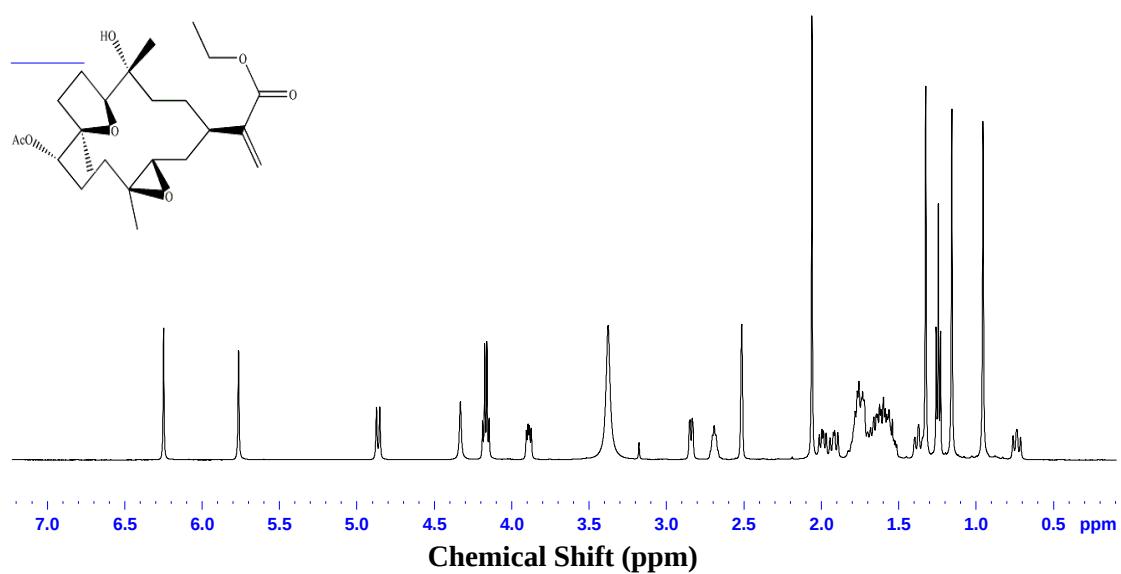
Figure S12. ROESY NMR spectrum for compound 2.**Figure S13.** ¹H-NMR spectrum for compound 3.

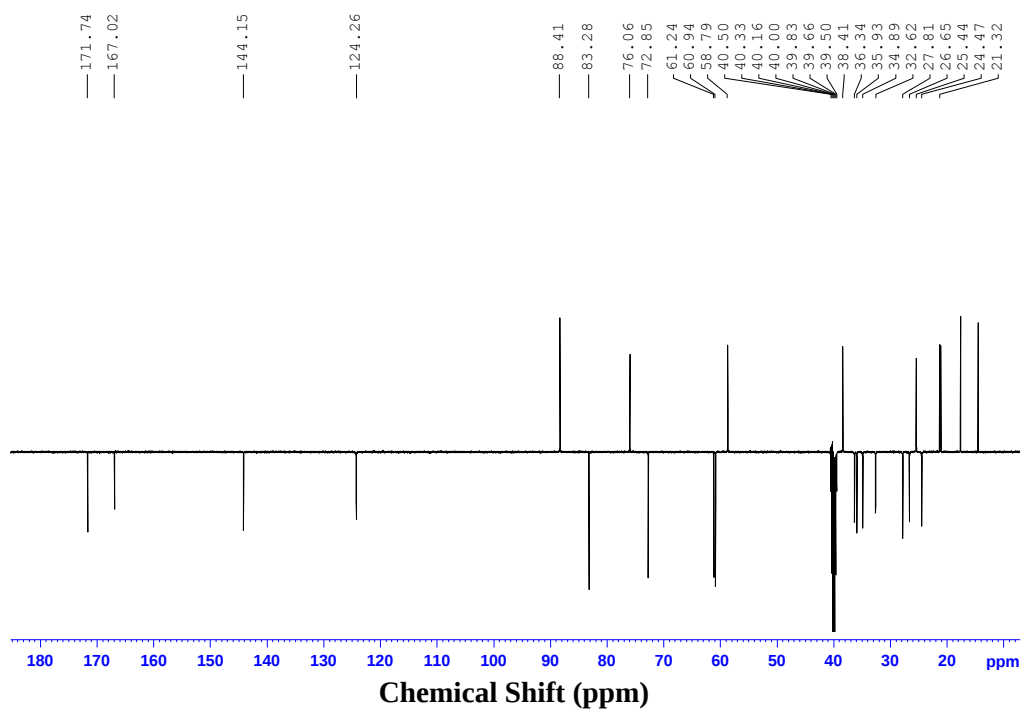
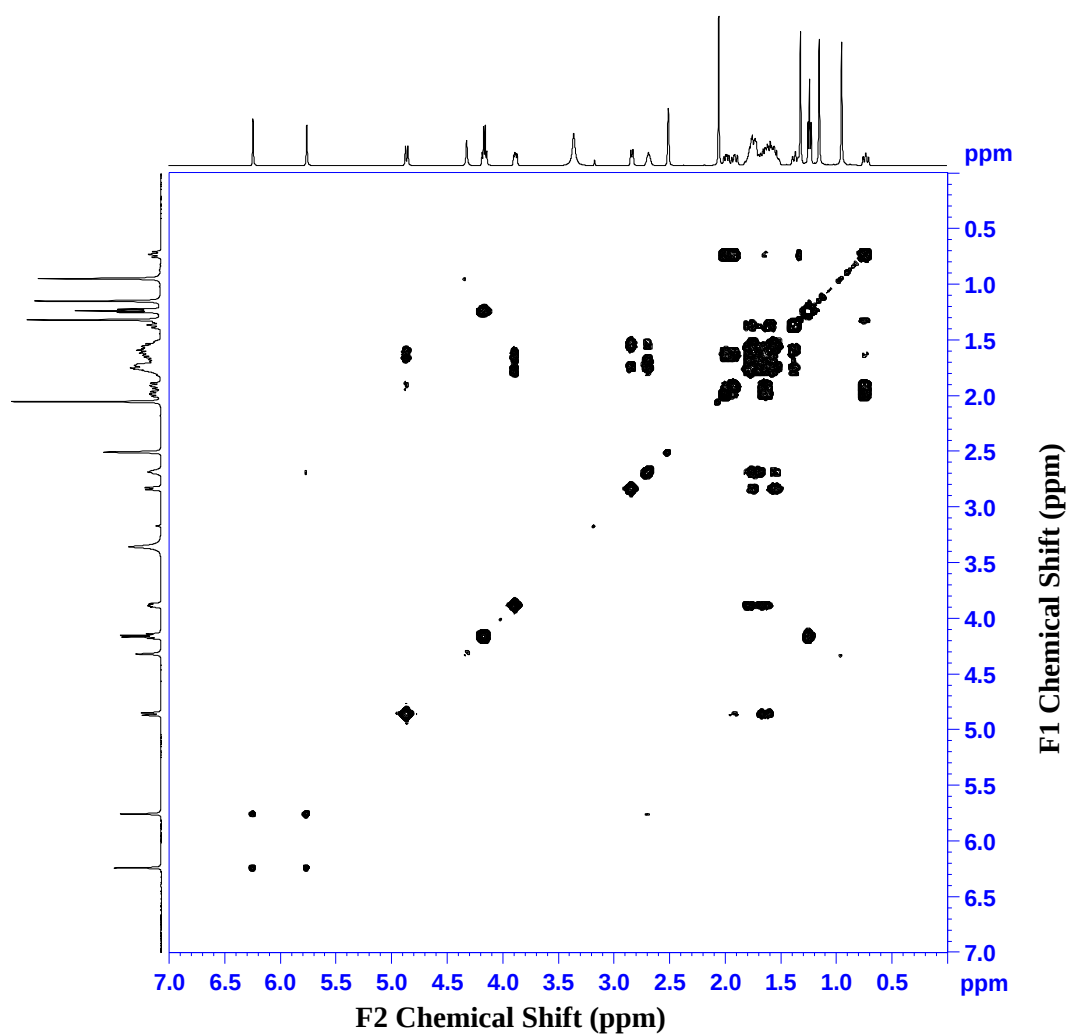
Figure S14. APT NMR spectrum for compound 3.**Figure S15.** COSY NMR spectrum for compound 3.

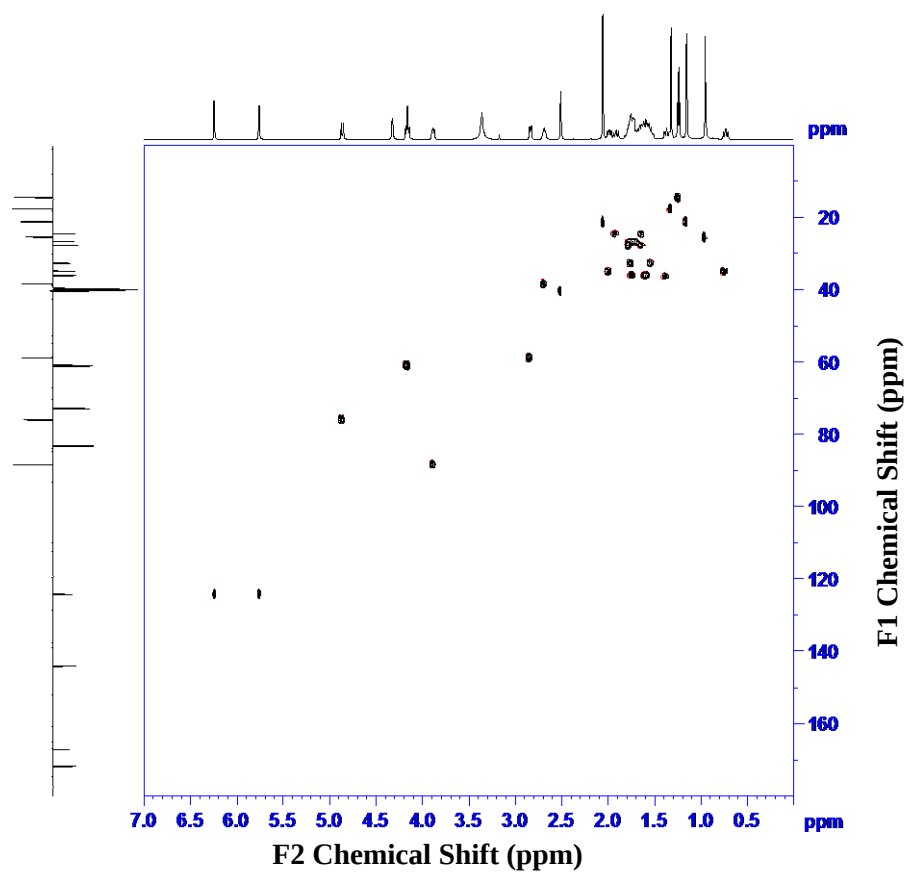
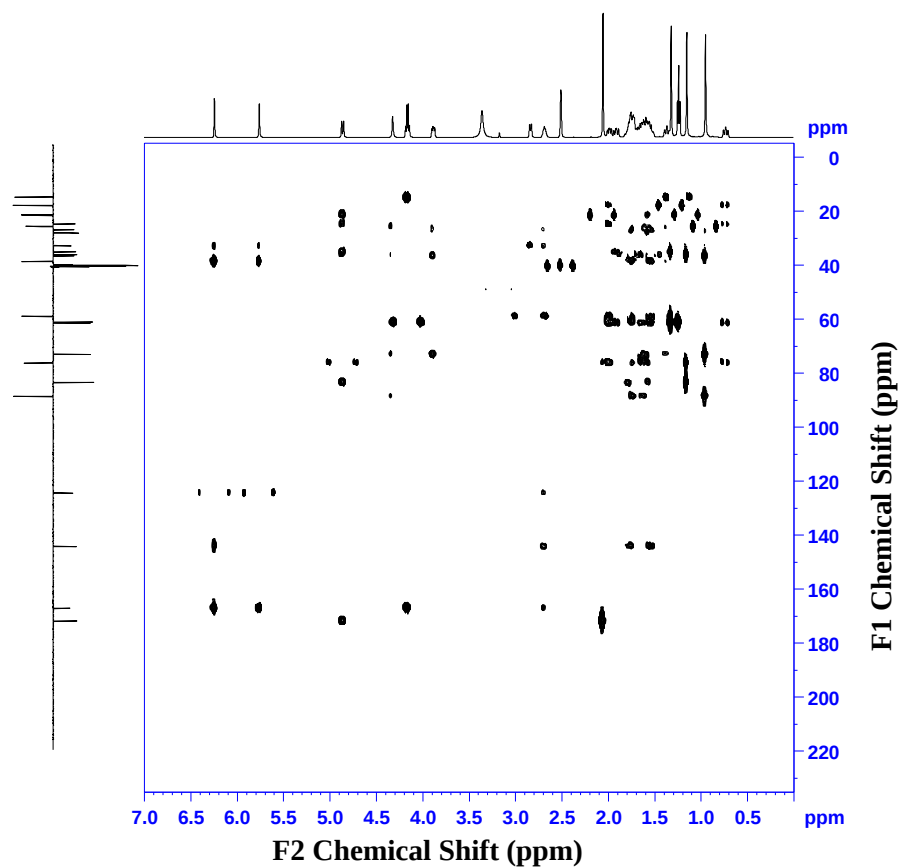
Figure S16. HSQC NMR spectrum for compound 3.**Figure S17.** HMBC NMR spectrum for compound 3.

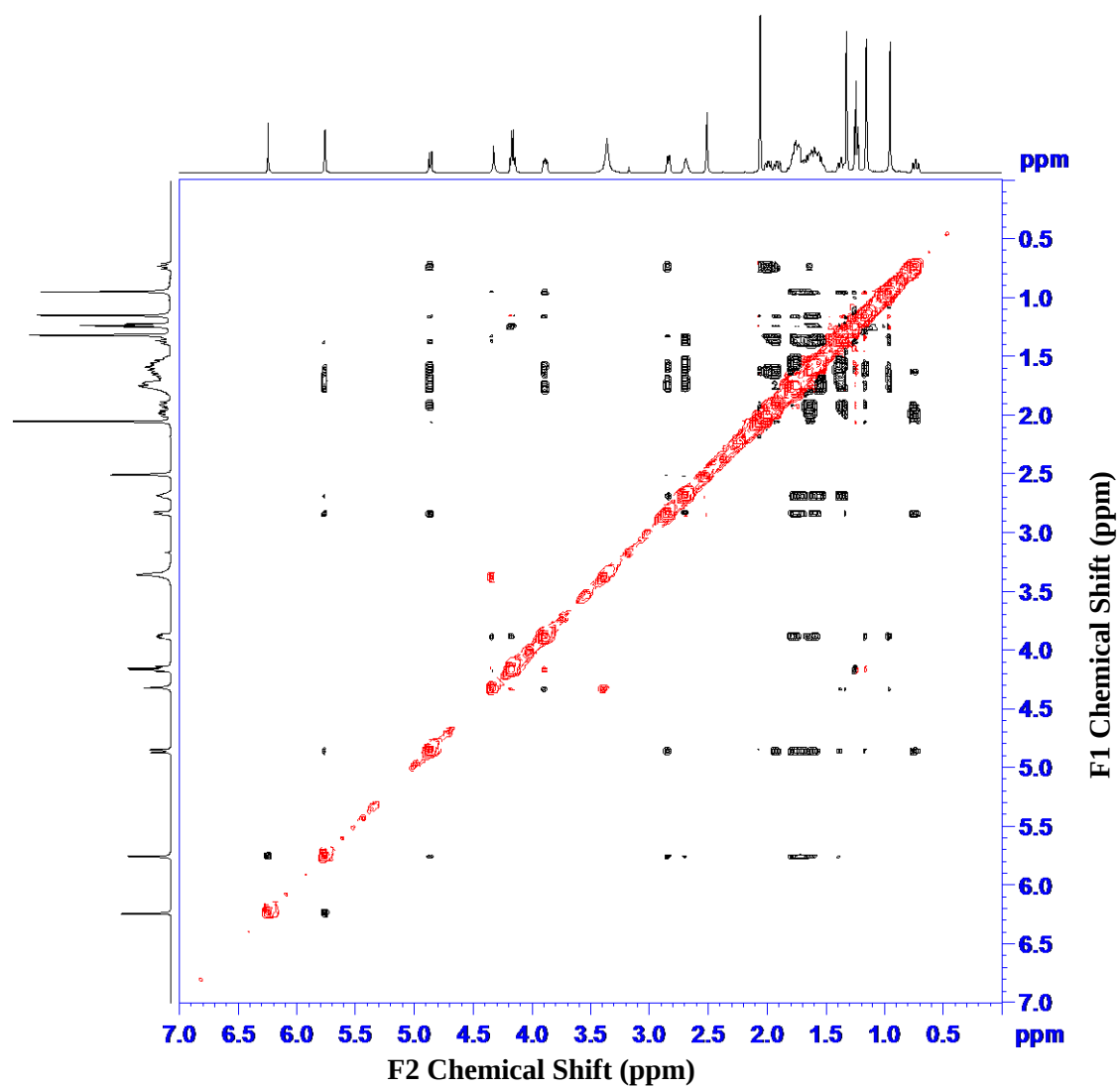
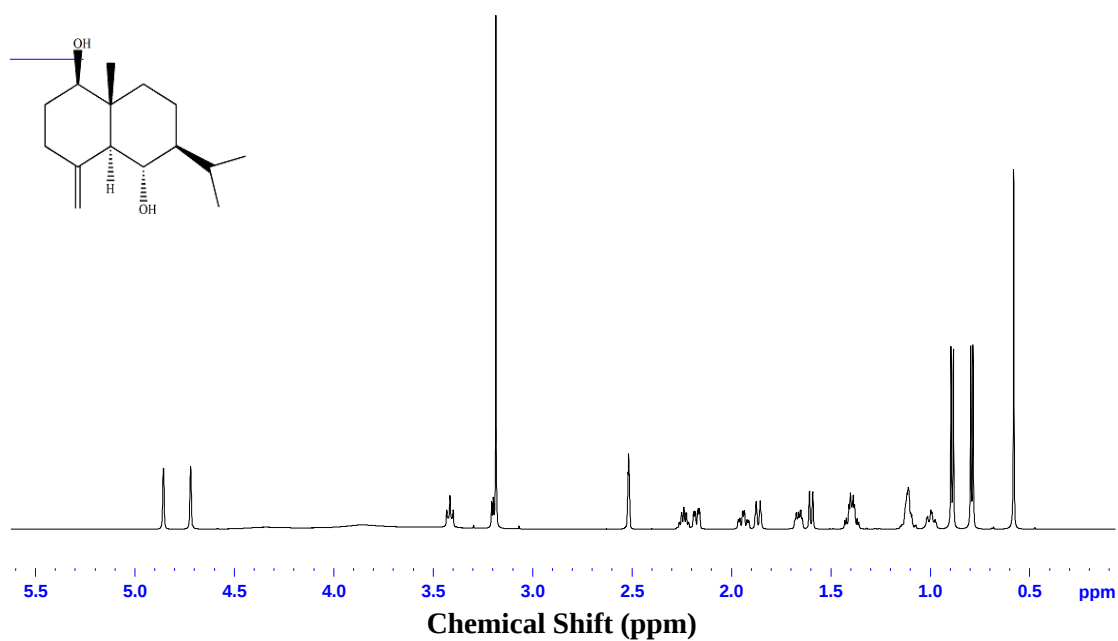
Figure S18. ROESY NMR spectrum for compound 3.**Figure S19.** ^1H -NMR spectrum for compound 4.

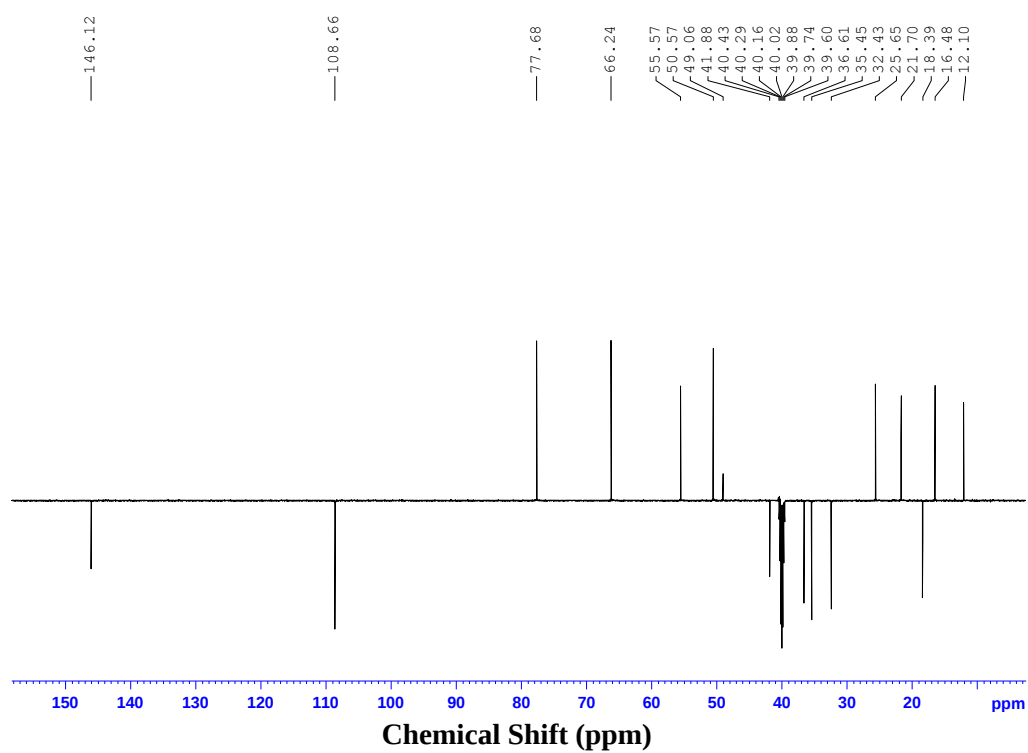
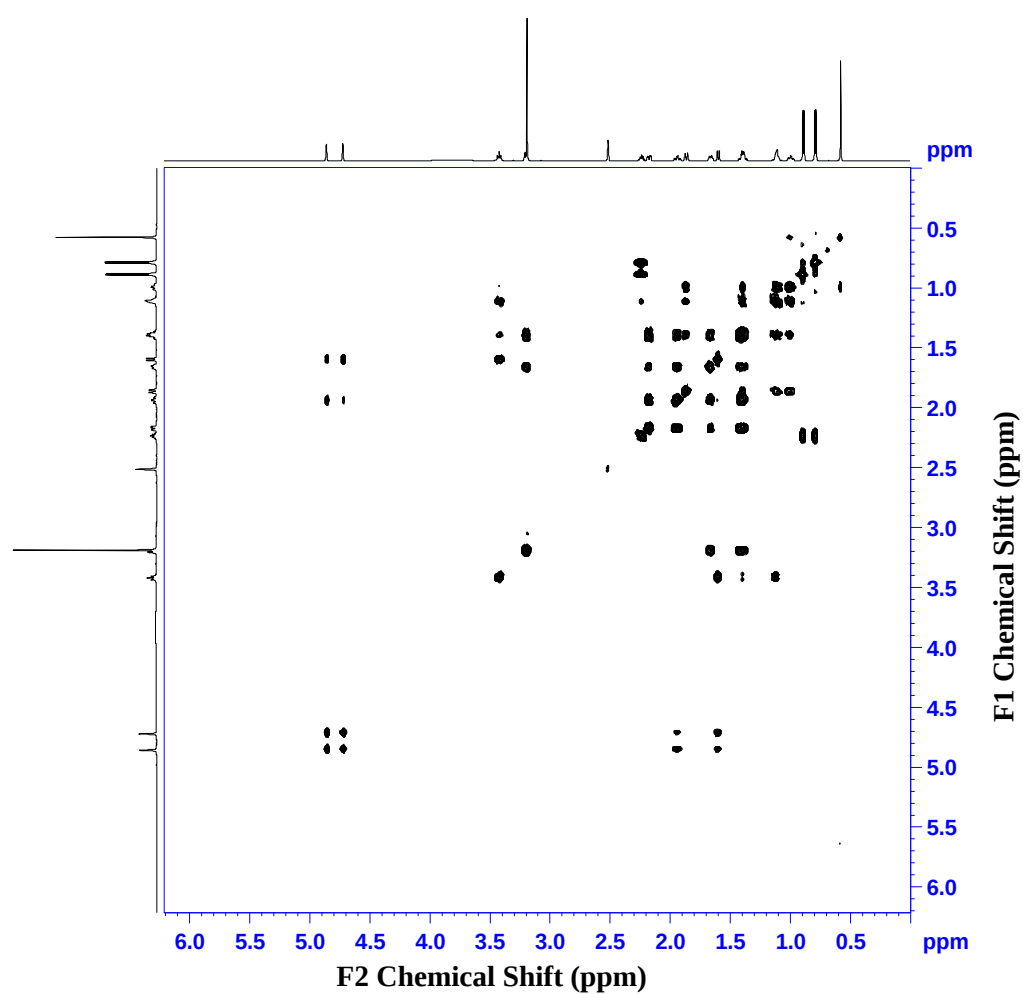
Figure S20. APT NMR spectrum for compound 4.**Figure S21.** COSY NMR spectrum for compound 4.

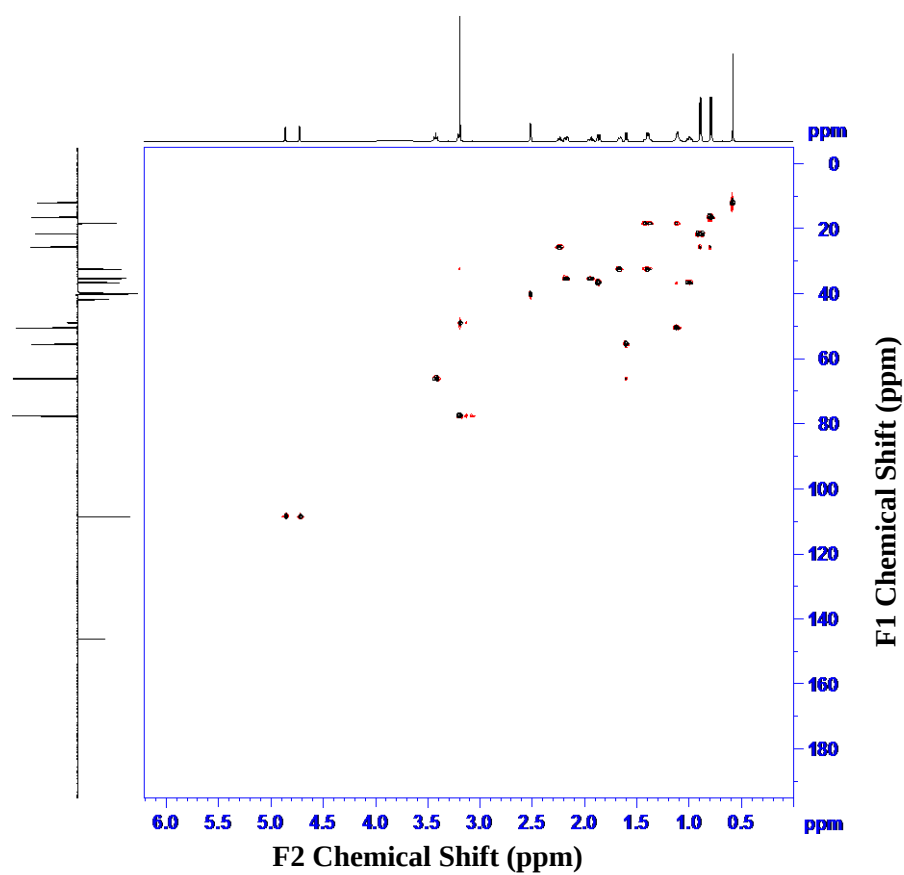
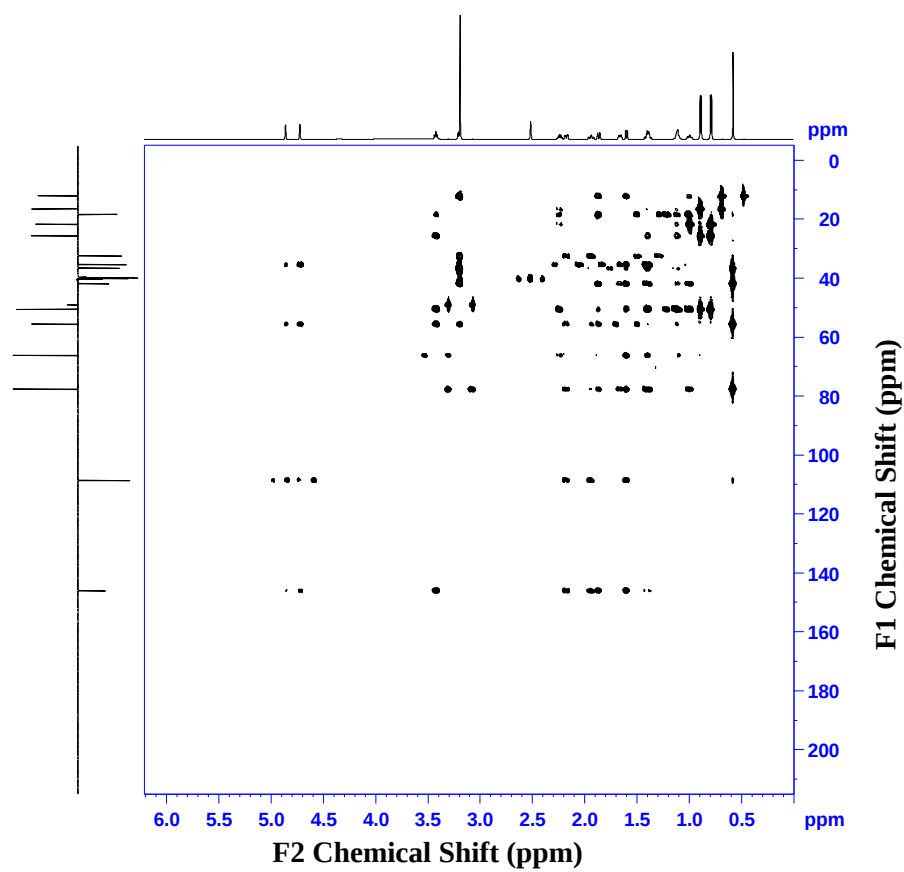
Figure S22. HSQC NMR spectrum for compound 4.**Figure S23.** HMBC NMR spectrum for compound 4.

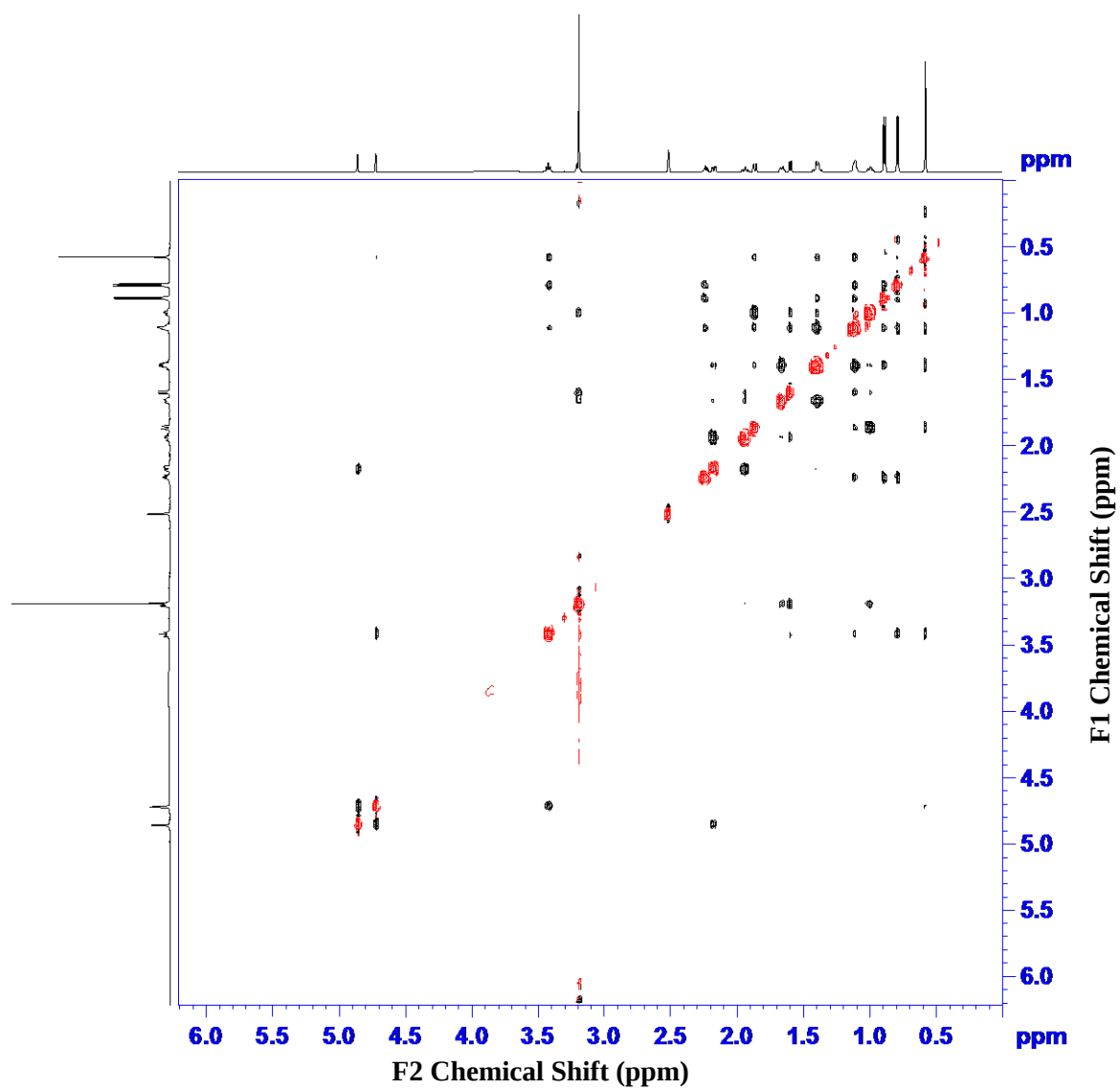
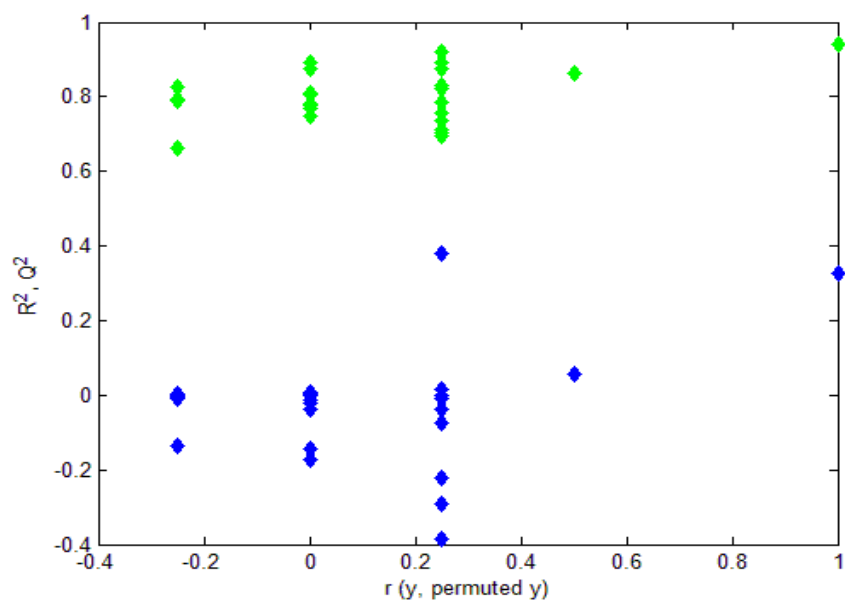
Figure S24. ROESY NMR spectrum for compound 4.**Figure S25.** Validation result of PLS-DA for methanol extract samples by permutation.

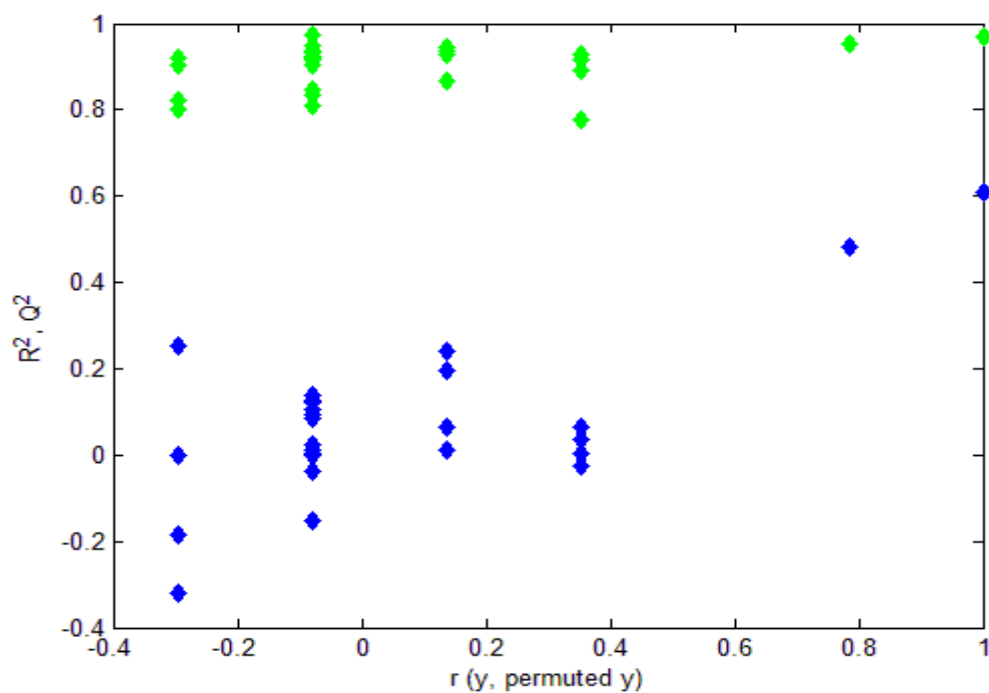
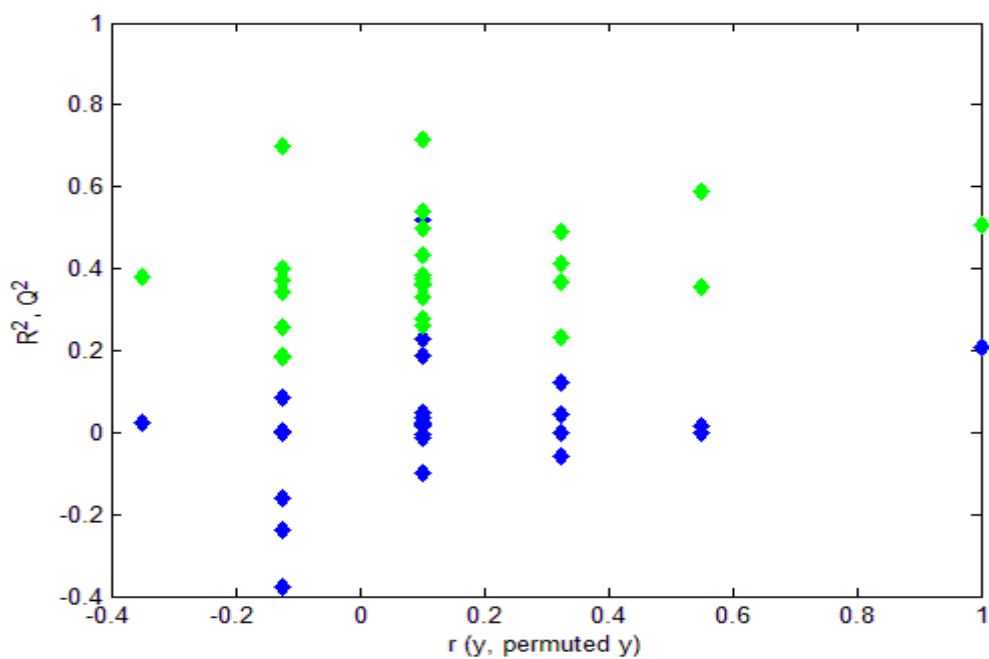
Figure S26. Validation result of PLS-DA for Fr.1 samples by permutation.**Figure S27.** Validation result of PLS-DA for Fr.2 samples by permutation.

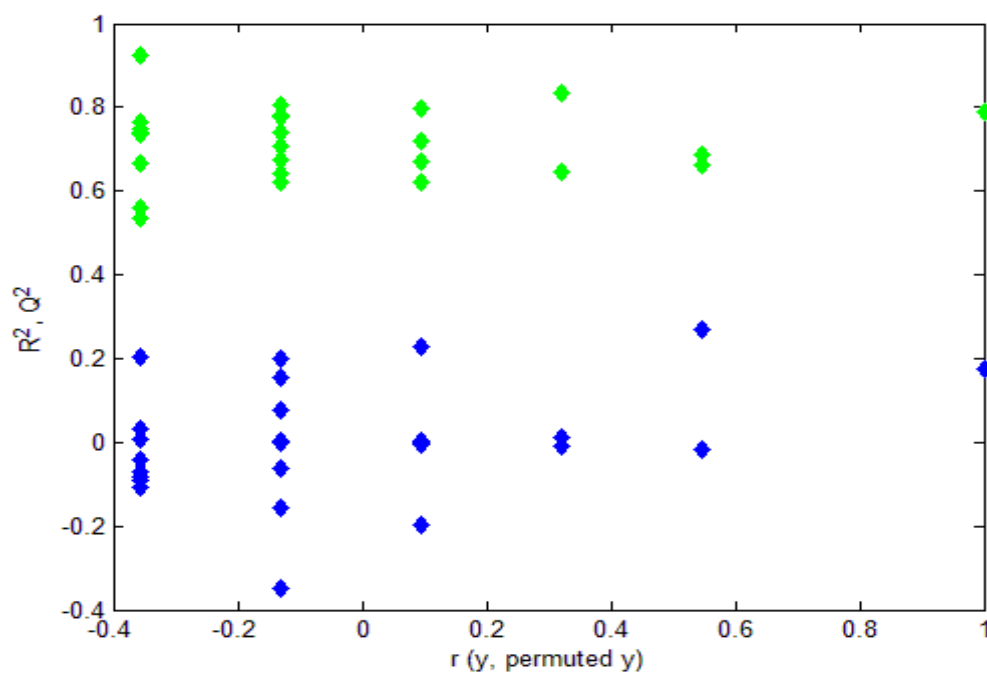
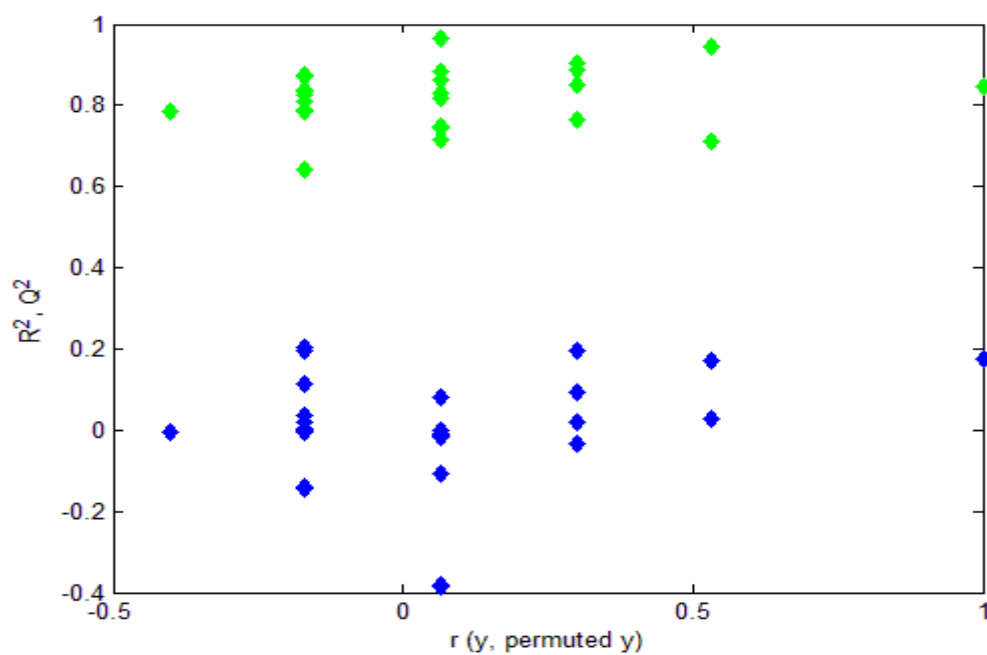
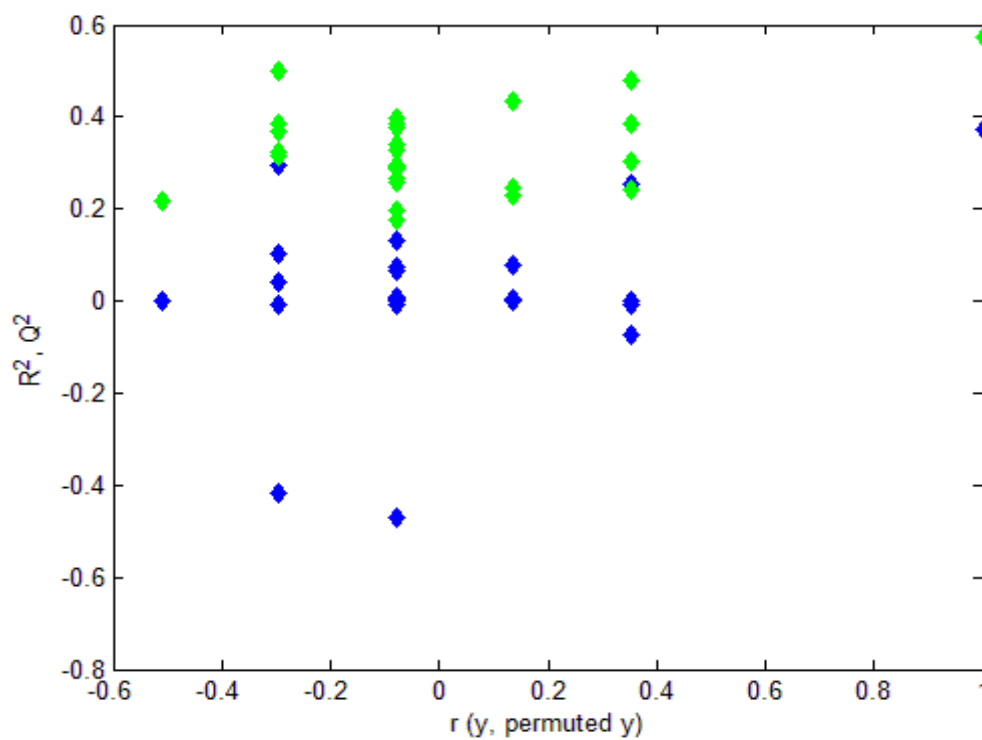
Figure S28. Validation result of PLS-DA for Fr.3 samples by permutation.**Figure S29.** Validation result of PLS-DA for Fr.4 samples by permutation.

Figure S30. Validation result of PLS-DA for Fr.5 samples by permutation.

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