

Supporting Information

Alertoxins with quorum sensing inhibitory activities from the marine-derived fungus *Cladosporium* sp. KFD33

Fei Zhang^{1,2,†}, Li-Man Zhou^{1,†}, Fan-Dong Kong^{1,†}, Qing-Yun Ma¹, Qing-Yi Xie¹, Jiu-Hui Li¹, Hao-Fu Dai¹, Lei Guo^{2,*}, You-Xing Zhao^{1,*}

¹Haina Key Laboratory of Research and Development of Natural Product from Li Folk Medicine, Institute of Tropical Bioscience and Biotechnology, Chinese Academy of Tropical Agricultural Sciences, Haikou 571101, China; MarchFay@163.com (F. Z); zhouliman88@126.com (L.M. Z); kongfandong@itbb.org.cn (F.D. K); maqingyun@itbb.org.cn (Q.Y. M); xieqingyi@itbb.org.cn (Q.Y. X); lijiahui@itbb.org.cn (J.H. L.); daihaofu@itbb.org.cn (H.F. D.);

²Jiangsu Key Laboratory of Marine Bioresources and Environment, Co-innovation Center of Jiangsu Marine Bio-industry Technology, Jiangsu Ocean University, Lianyungang 222005;

* Correspondence: zhaoyouxing@itbb.org.cn (Y.X. Z); guol@jou.edu.cn (L. G);

Tel.: +86-898-6698-9095 (Y.X. Z); +86-159-5072-6013 (L. G)

† These authors contributed equally to this paper.

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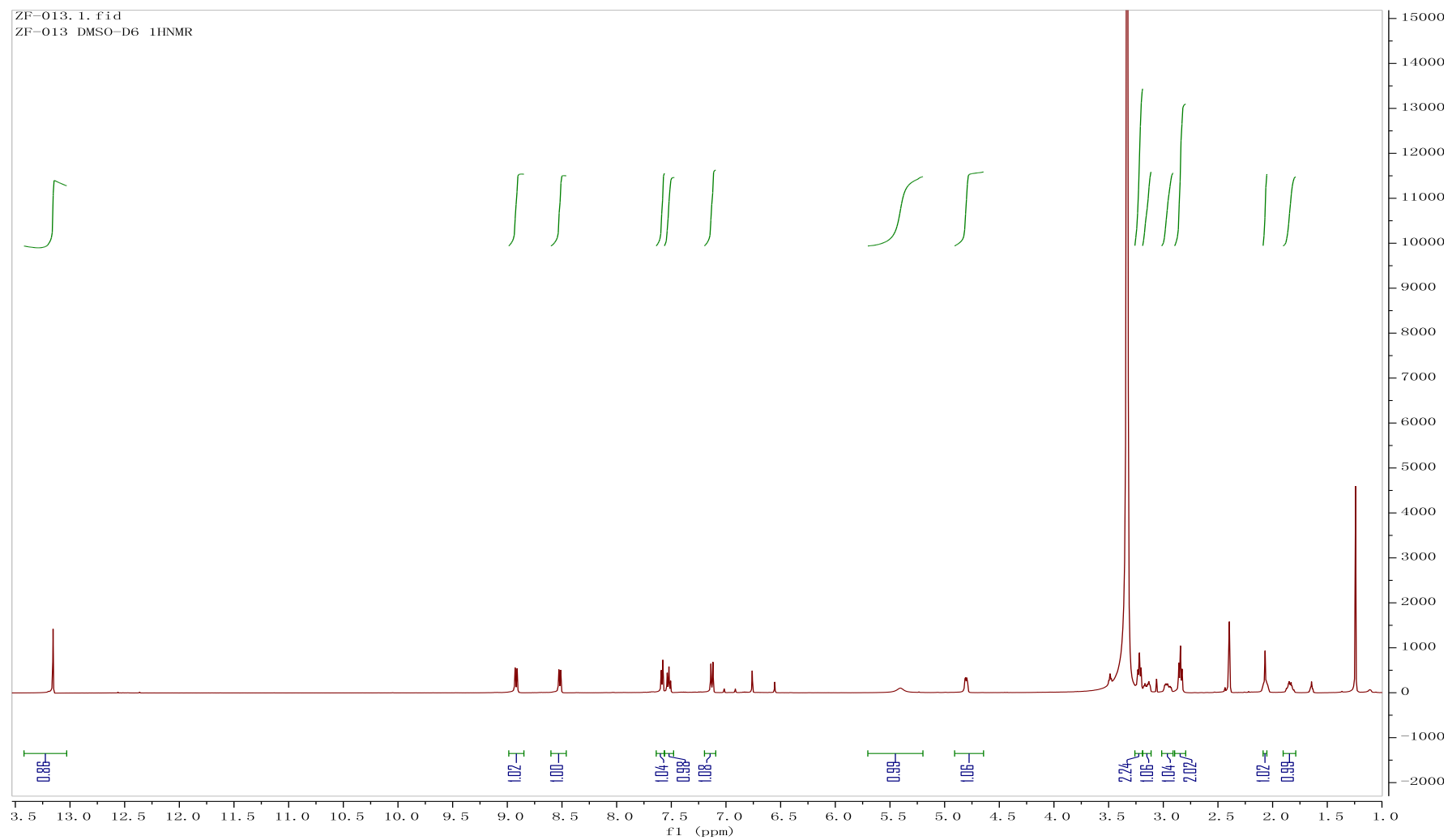


Figure S1. The ^1H NMR Spectrum of Compound **1** in DMSO

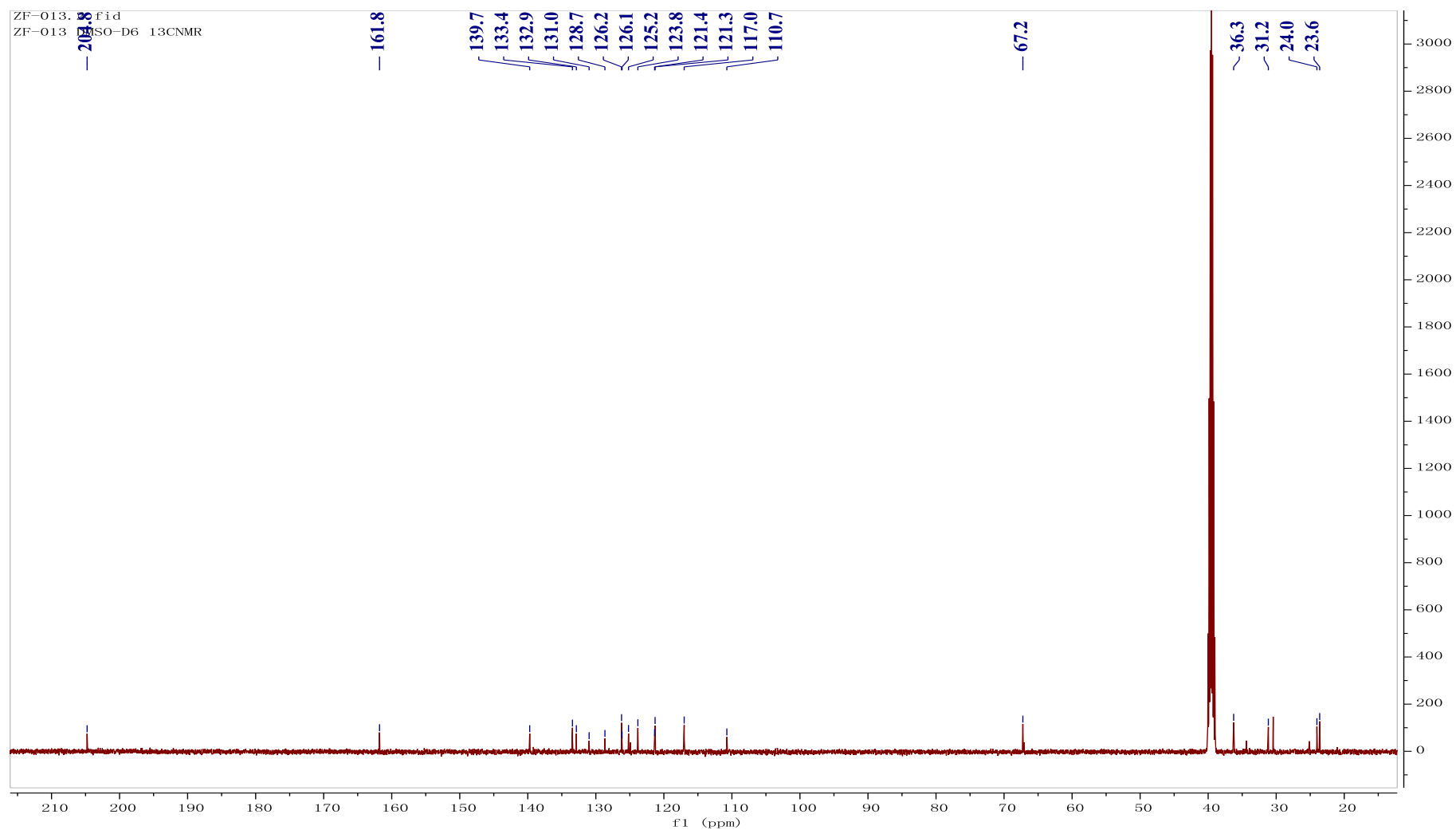


Figure S2. The ^{13}C NMR Spectrum of Compound **1** in DMSO

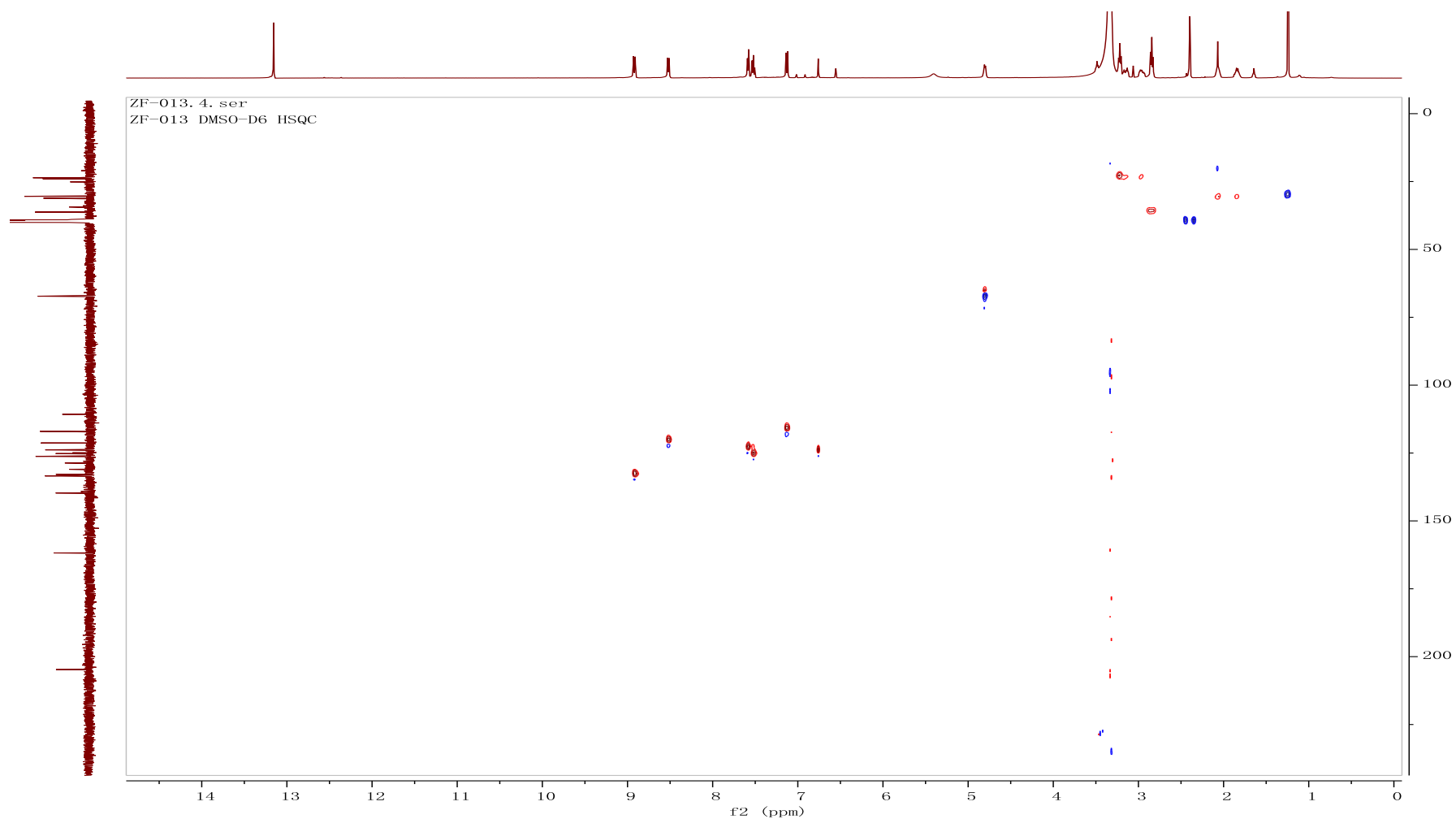


Figure S3. The HMQC Spectrum of Compound **1** in DMSO

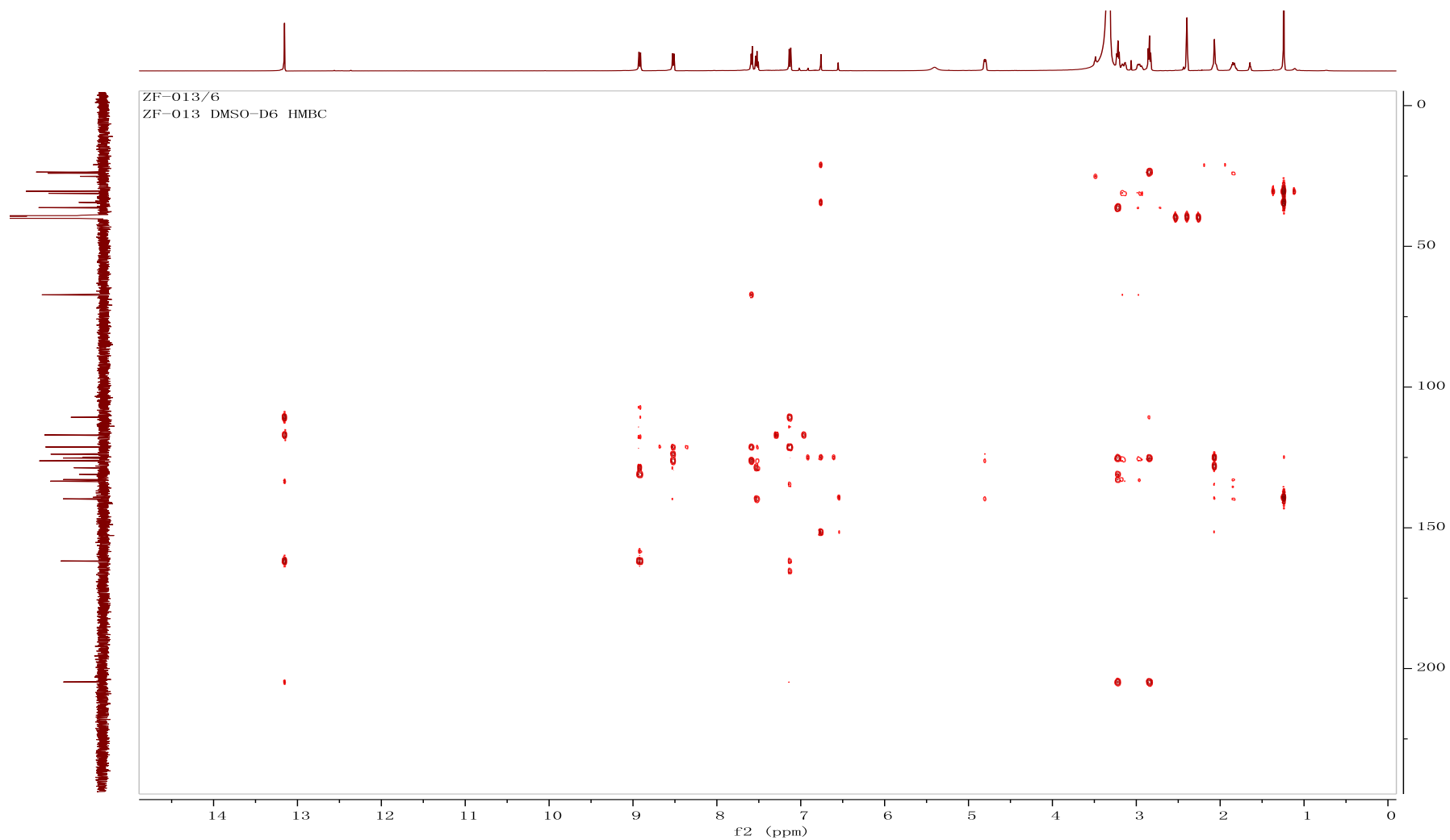


Figure S4. The HMBC Spectrum of Compound **1** in DMSO

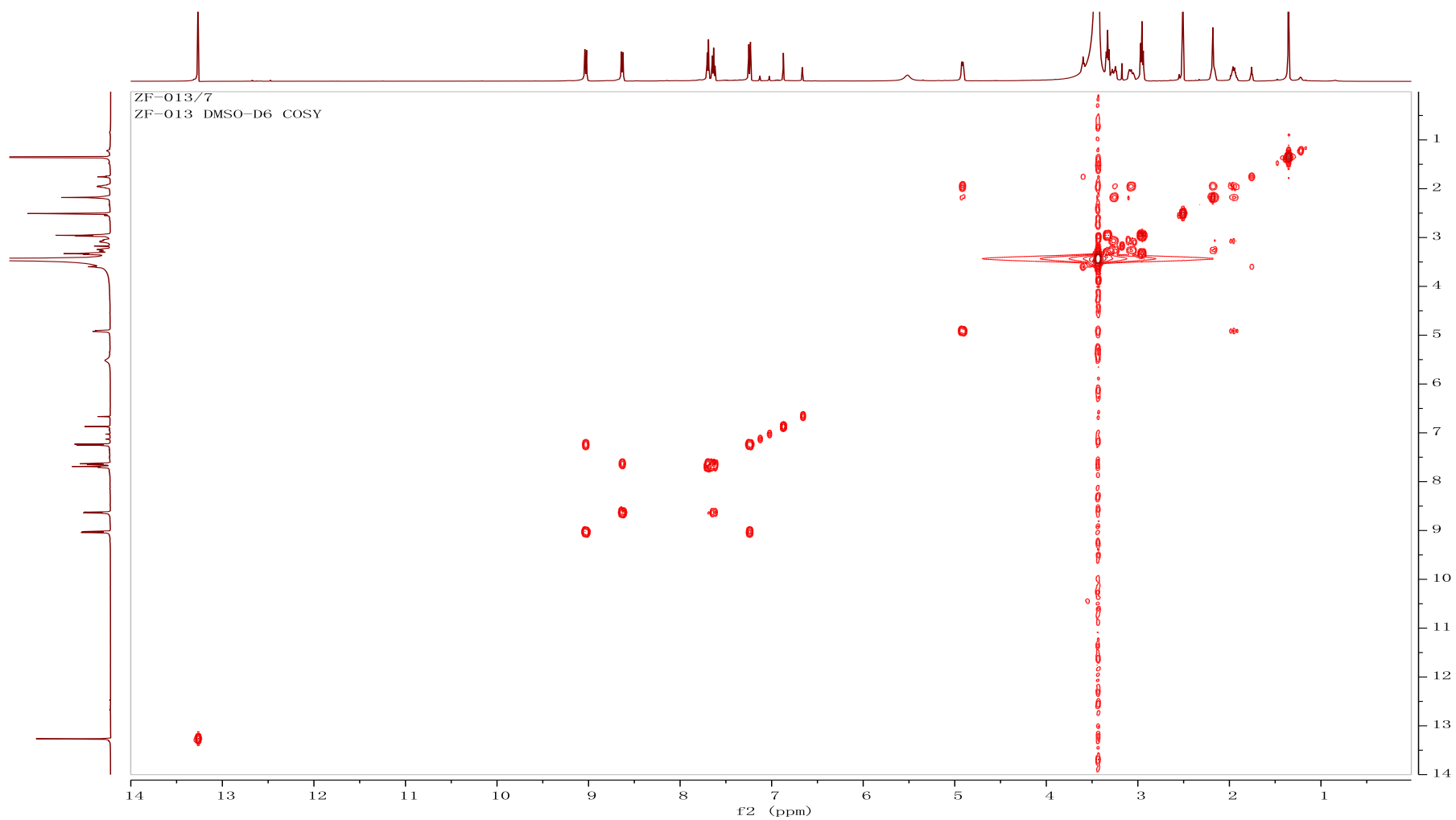
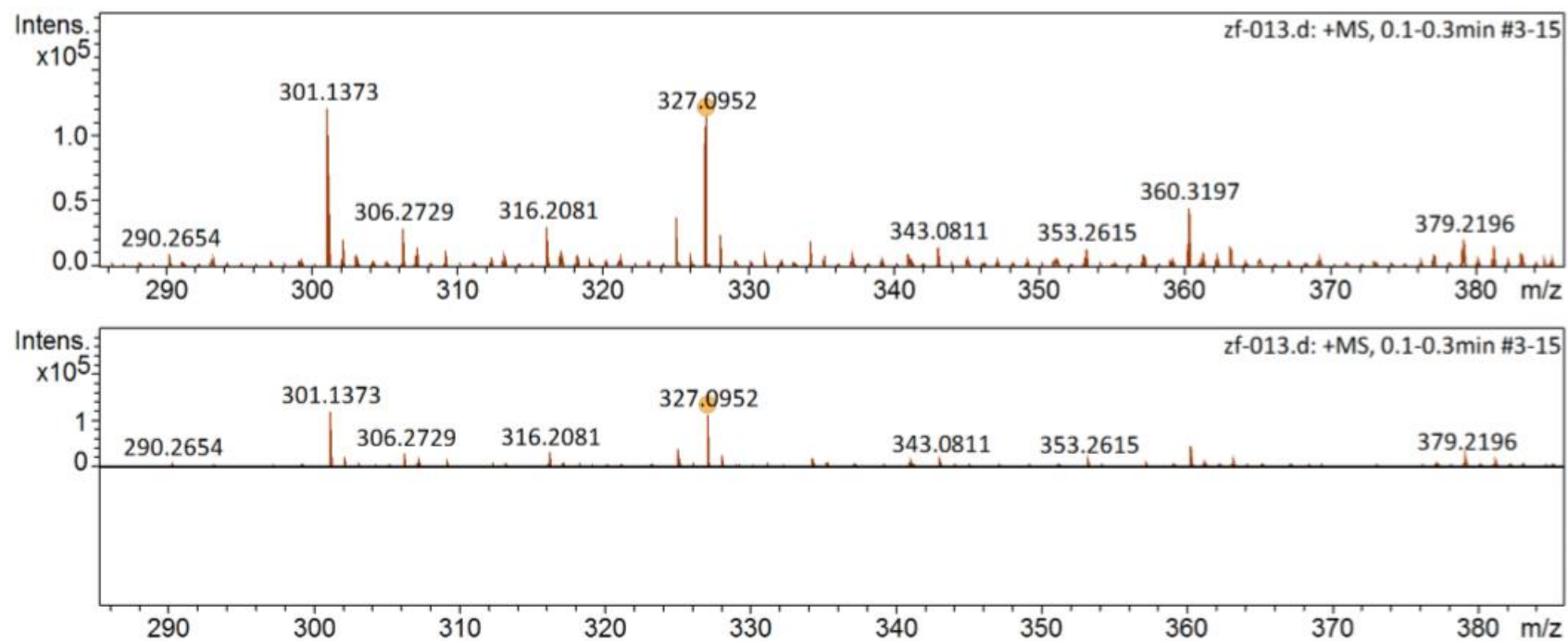


Figure S5. The COSY Spectrum of Compound **1** in DMSO



Meas. m/z	#	Ion Formula	m/z	err [ppm]	mSigma	# mSigma	Score	rdB	e ⁻ Conf	N-Rule	Adduct
327.0952	1	C ₂₀ H ₁₆ NaO ₃	327.0992	12.2	4.1	1	100.00	13.0	even	ok	M+Na

Figure S6. The HRESIMS Spectroscopic Data of Compound 1

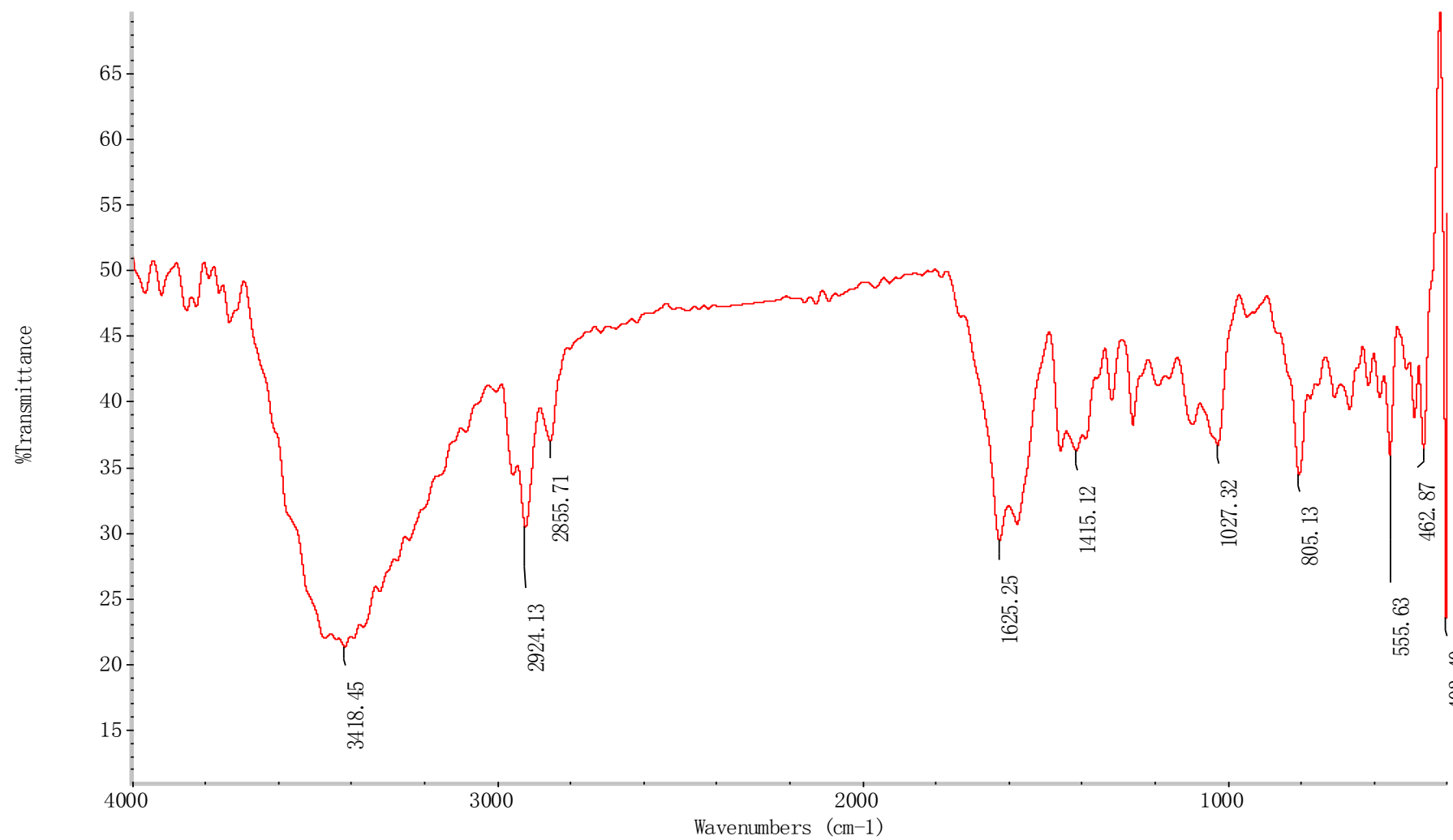


Figure S7. The IR Spectrum of Compound **1**

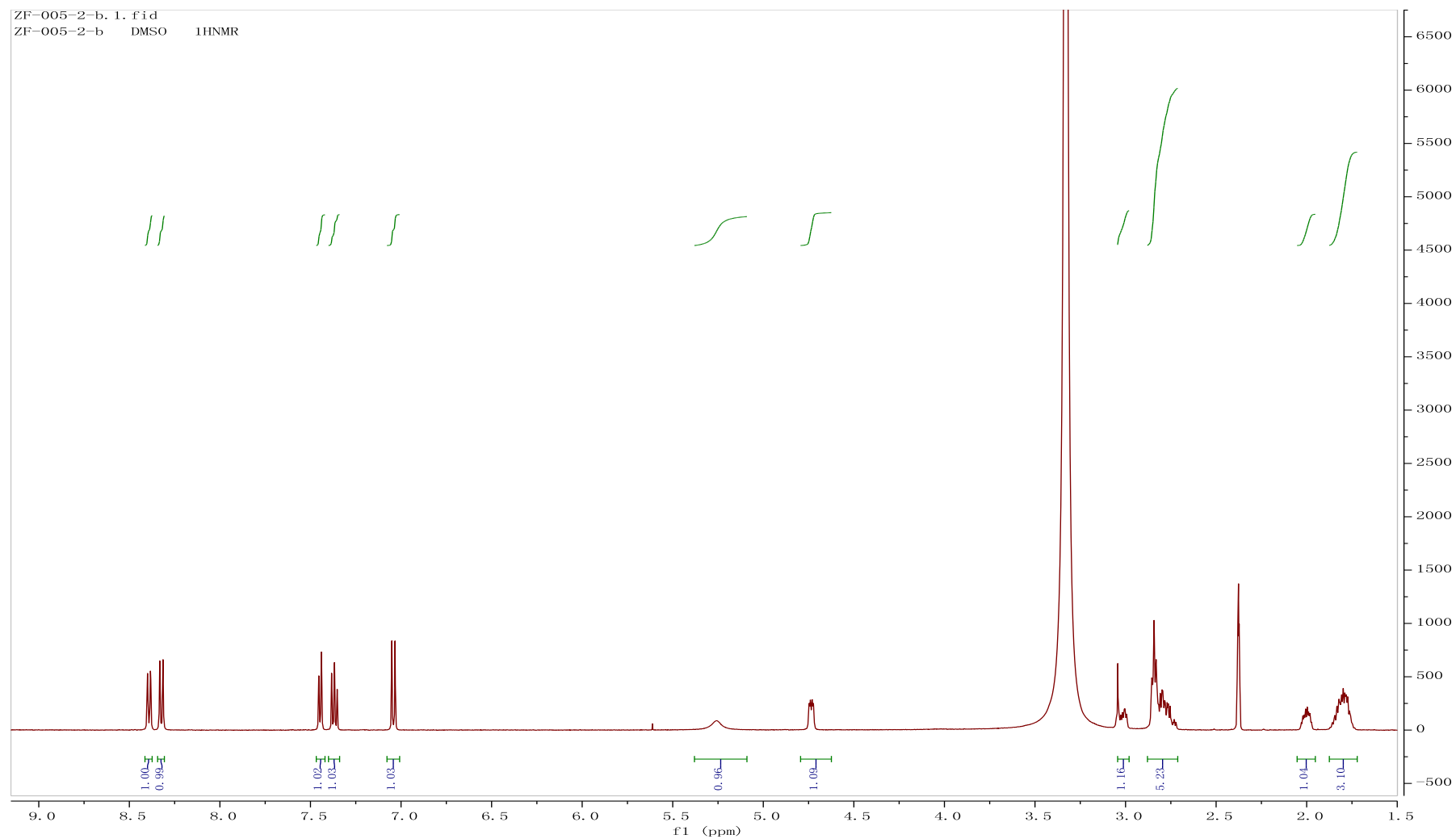


Figure S8. The ^1H NMR Spectrum of Compounds **2** and **3** in DMSO

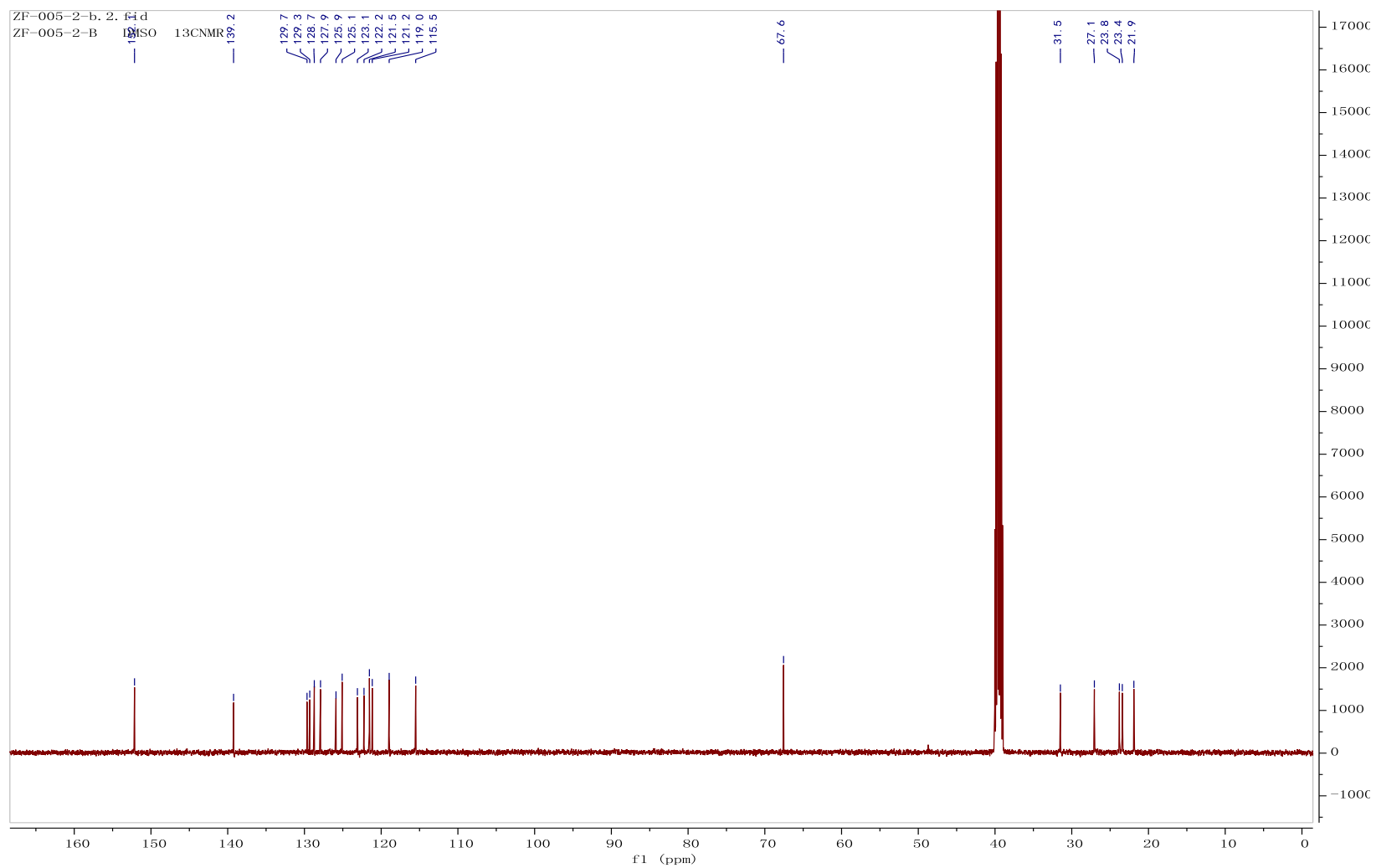


Figure S9. The ^{13}C NMR Spectrum of Compounds **2** and **3** in DMSO

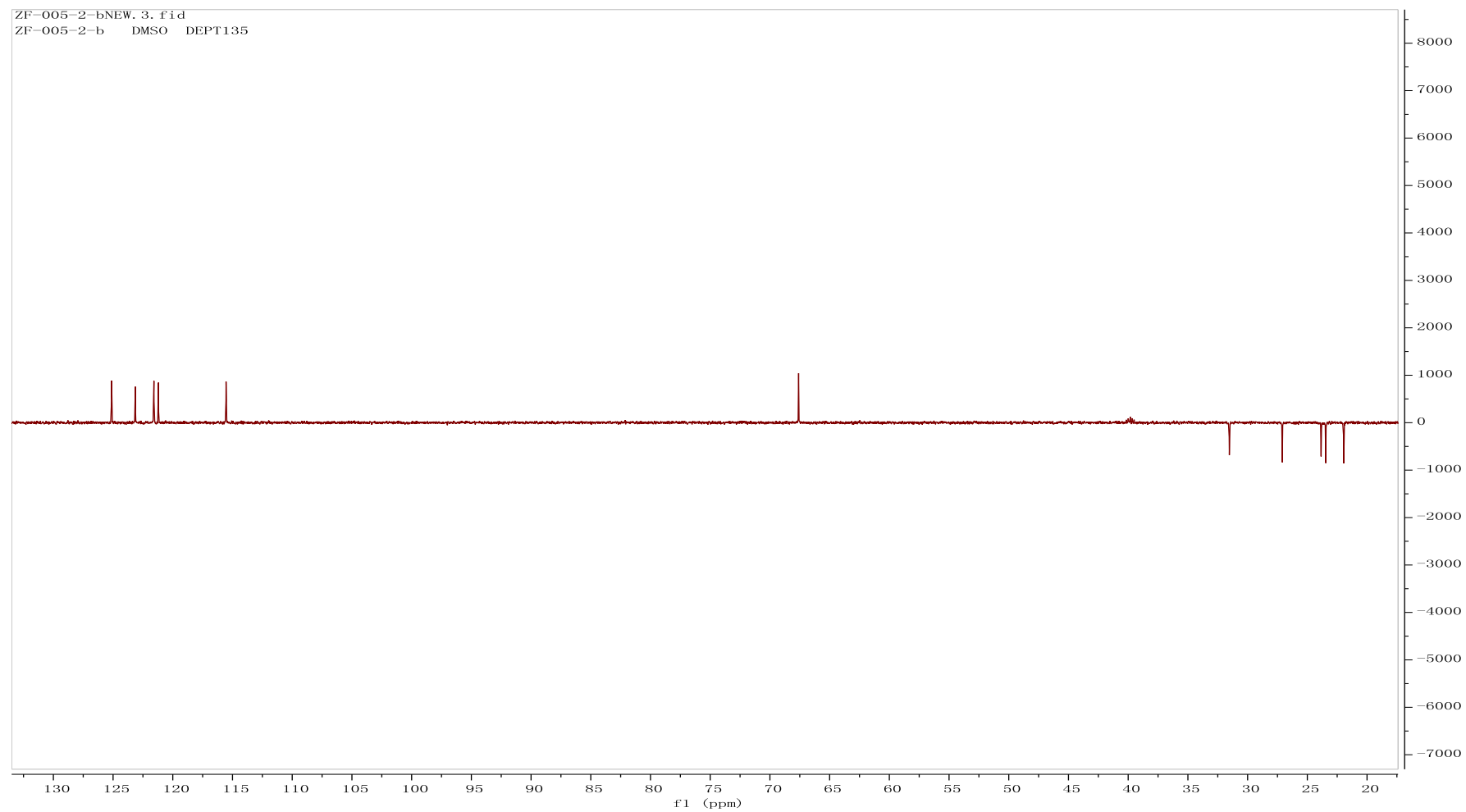


Figure S10. The DEPT Spectrum of Compounds **2** and **3** in DMSO

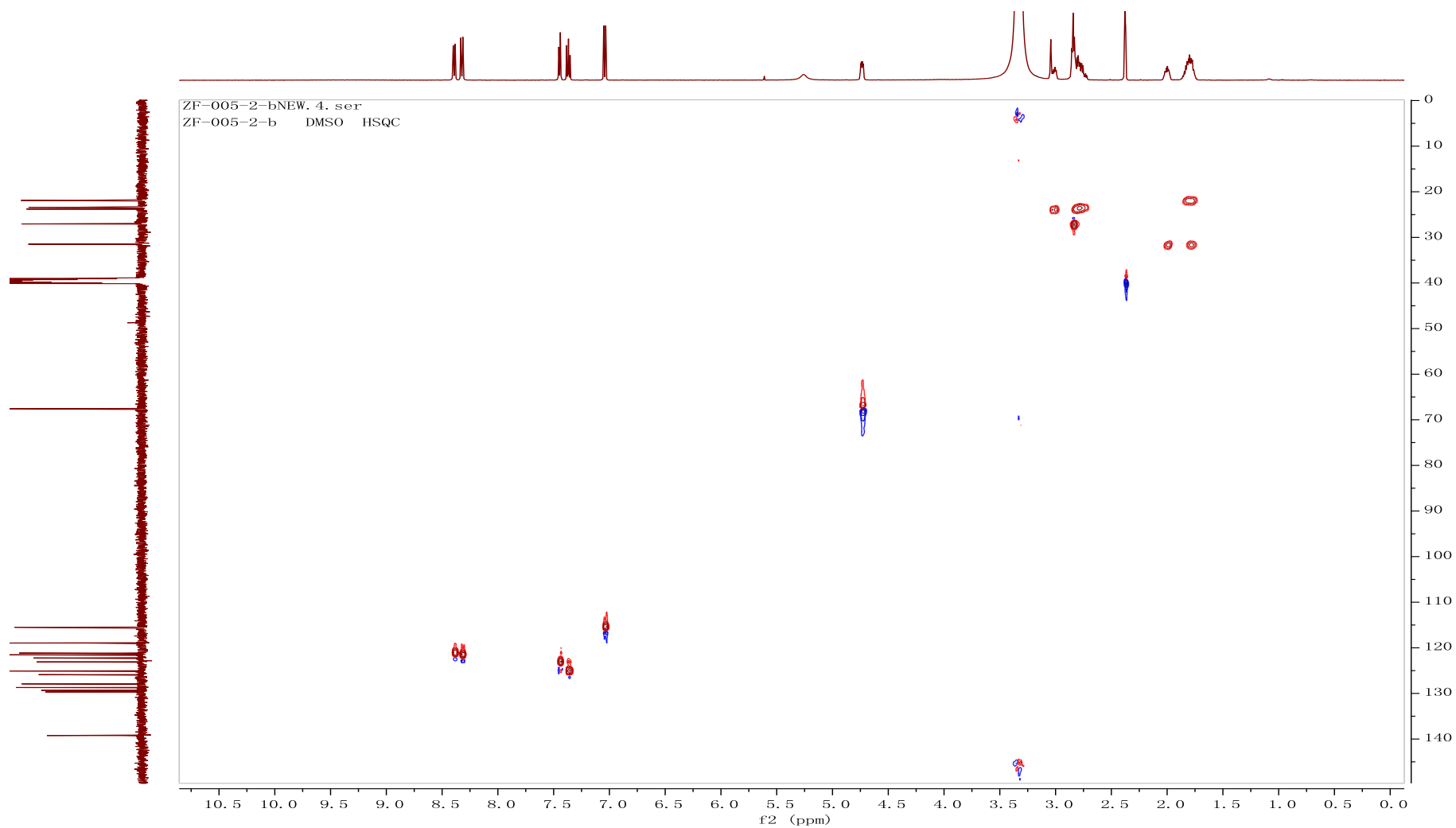


Figure S11. The HMQC Spectrum of Compounds **2** and **3** in DMSO

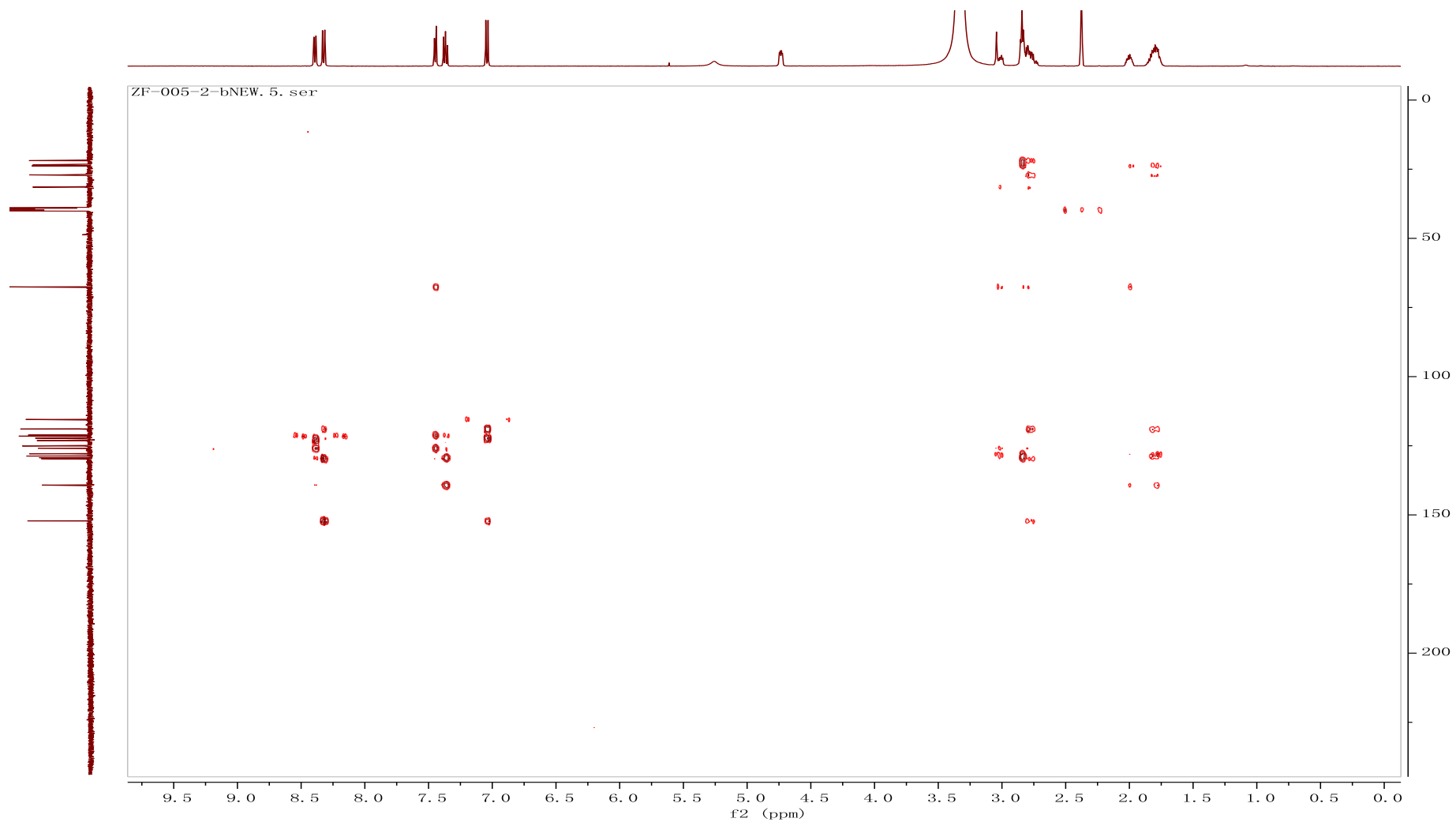


Figure S12. The HMBC Spectrum of Compounds **2** and **3** in DMSO

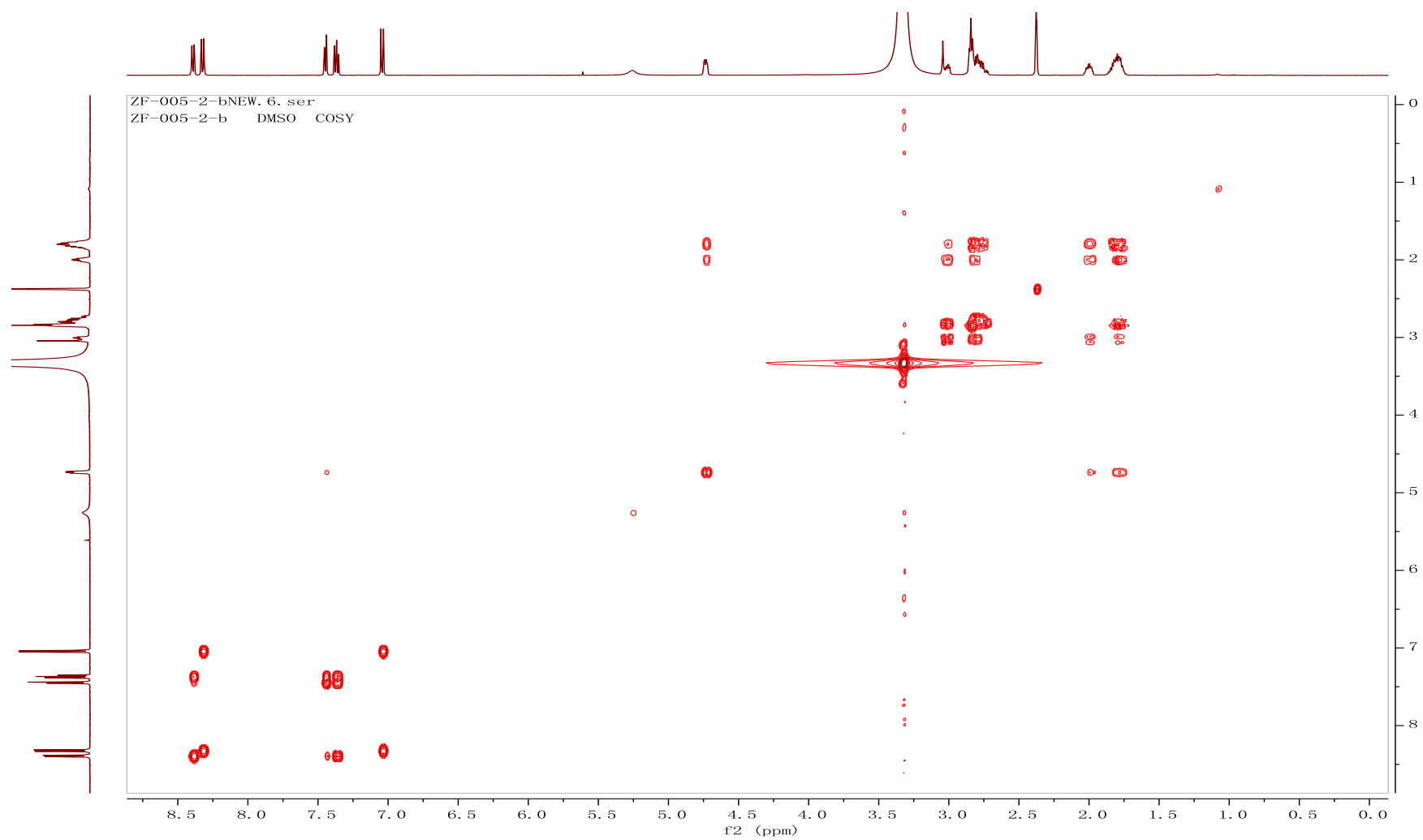
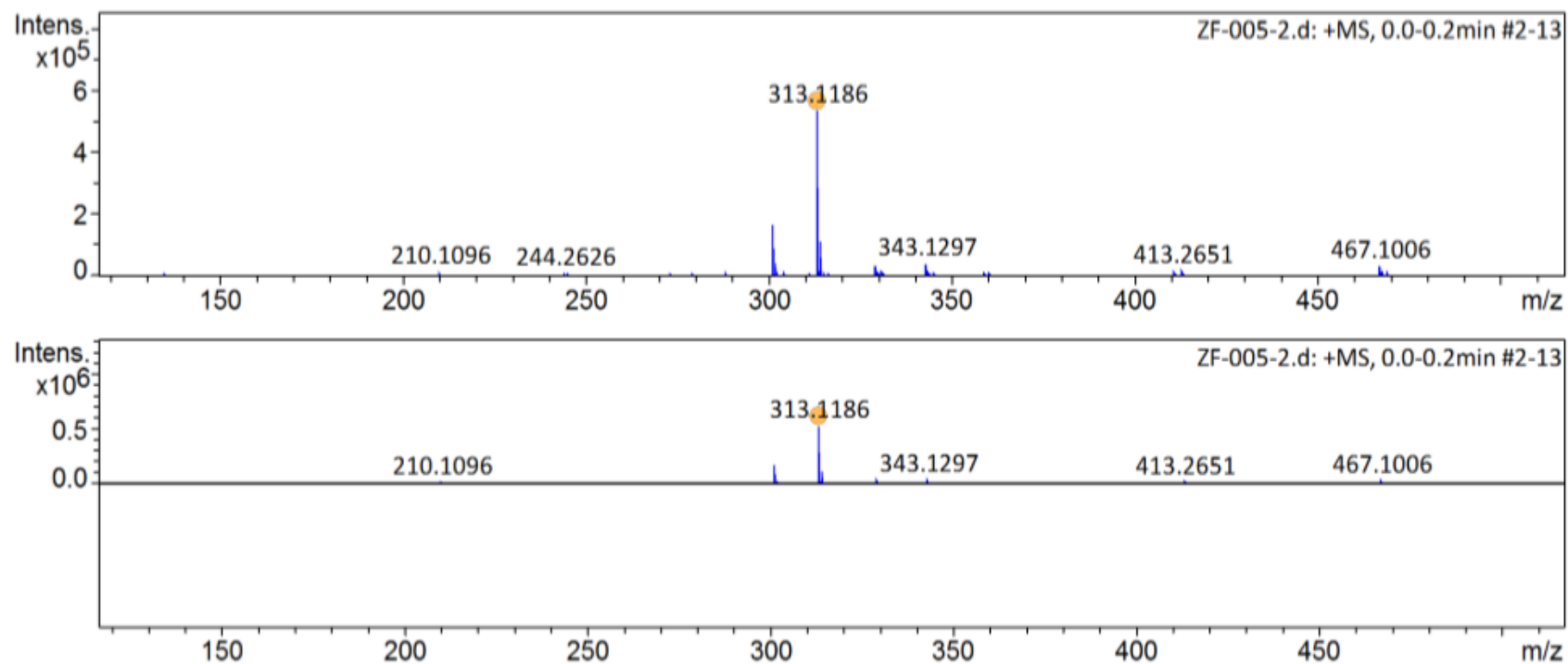


Figure S13. The COSY Spectrum of Compounds **2** and **3** in DMSO



Meas. m/z	#	Ion Formula	m/z	err [ppm]	mSigma	# mSigma	Score	rdb	e ⁻ Conf	N-Rule	Adduct
313.1186	1	C20H18NaO2	313.1199	4.1	3.4	1	100.00	12.0	even	ok	M+Na

Figure S14. The HRESIMS Spectroscopic Data of Compounds 2 and 3

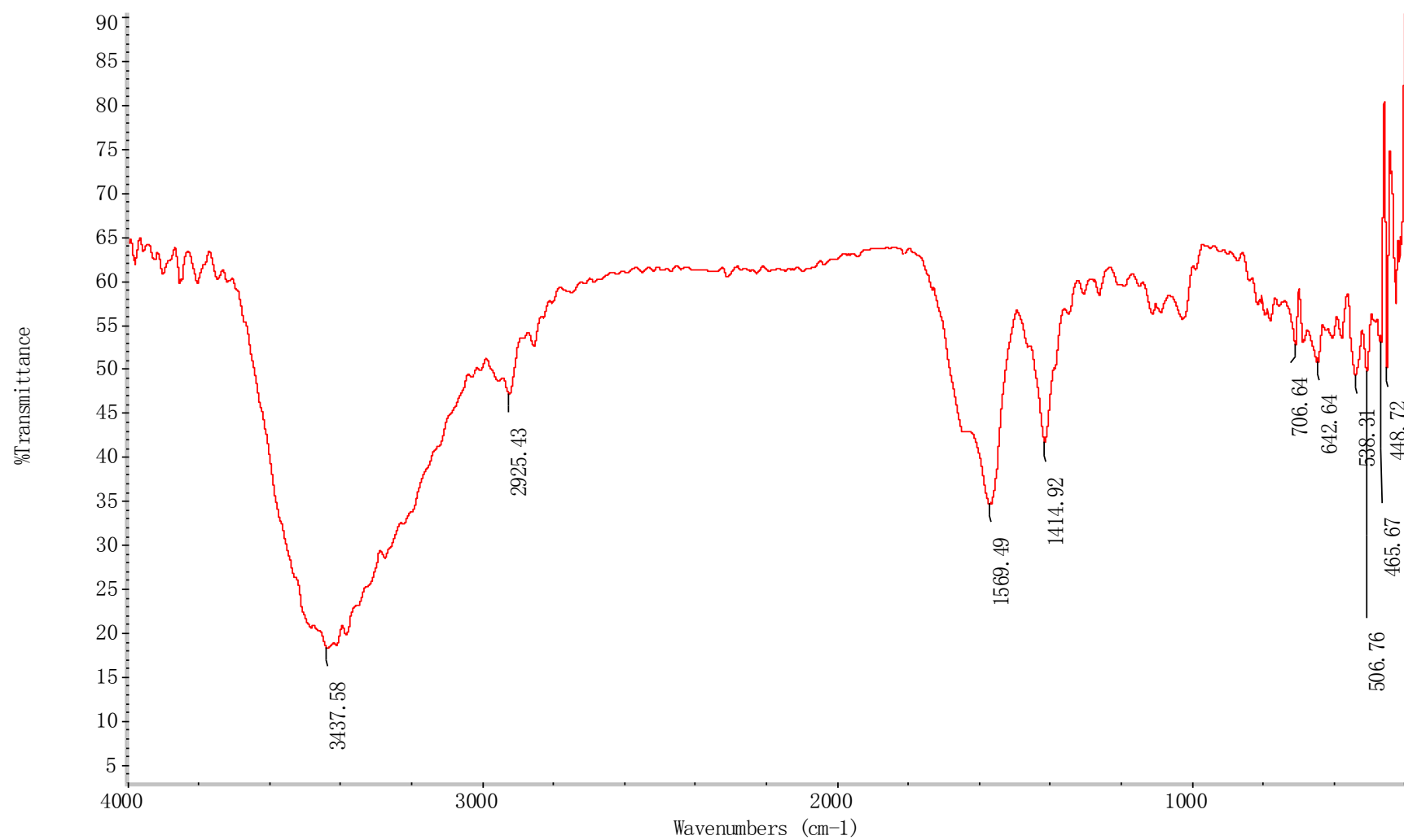


Figure S15. The IR Spectrum of Compounds 2 and 3

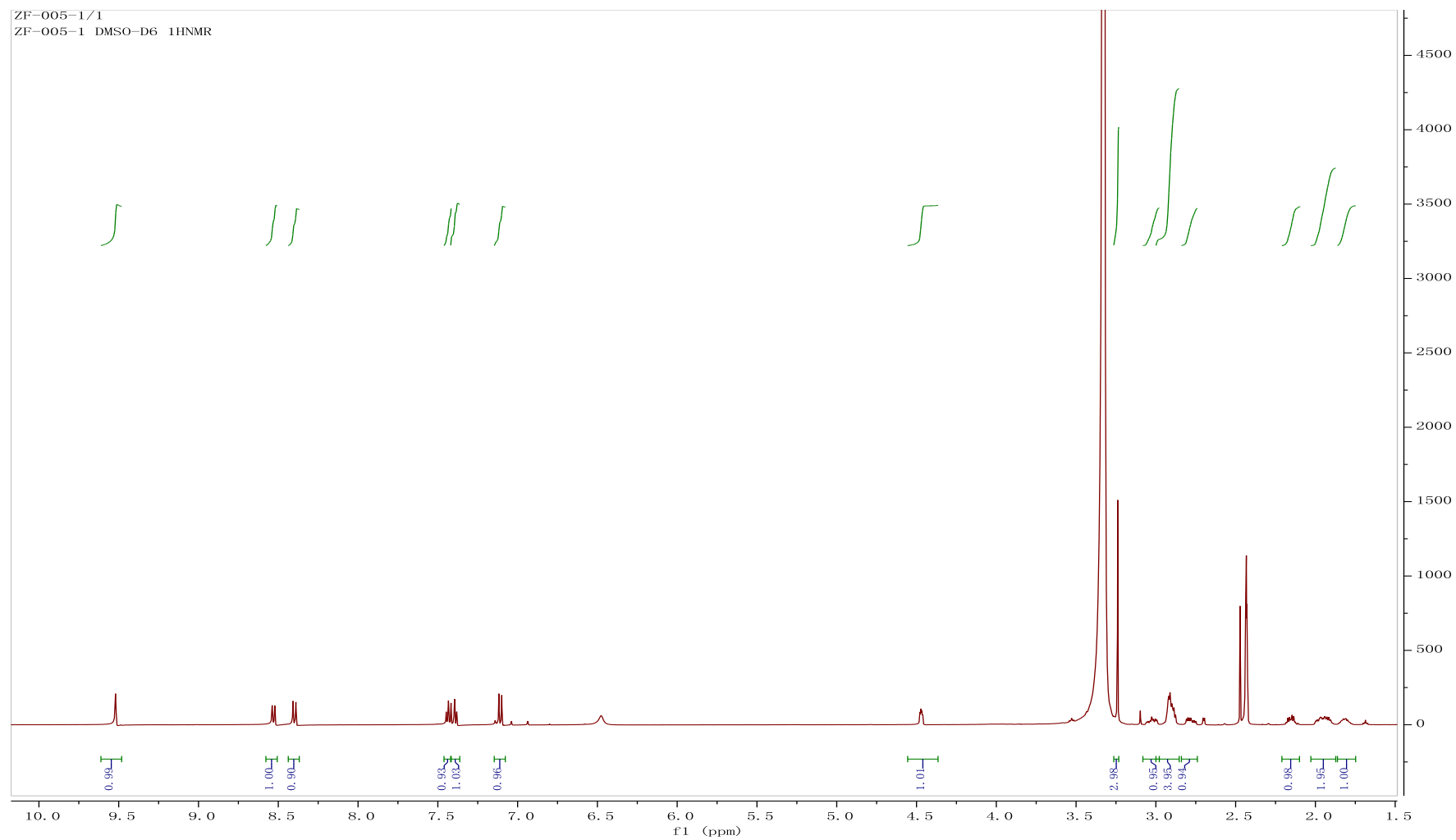


Figure S16. The ¹H NMR Spectrum of Compound **4** in DMSO

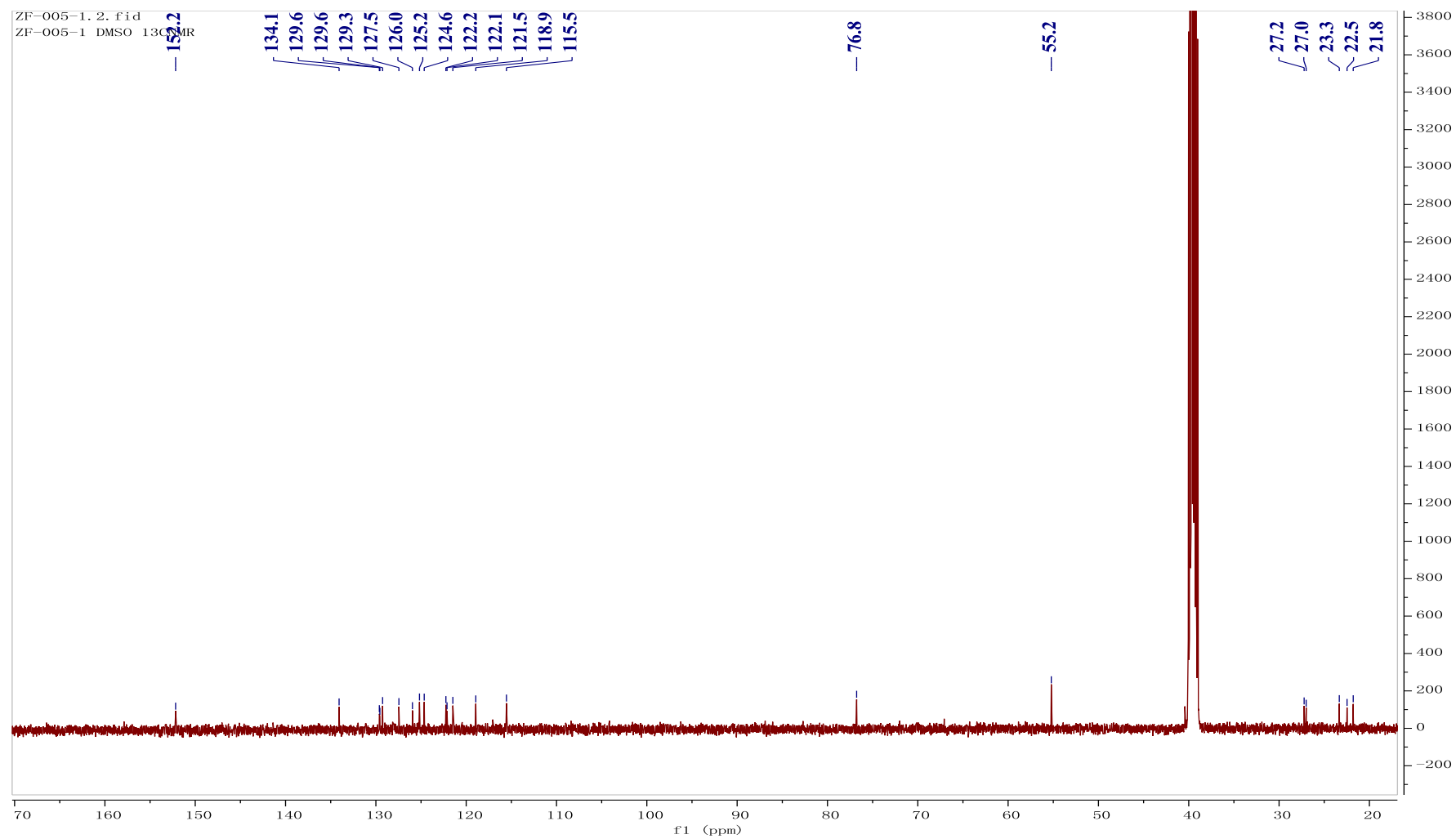


Figure S17. The ^{13}C NMR Spectrum of Compound 4 in DMSO

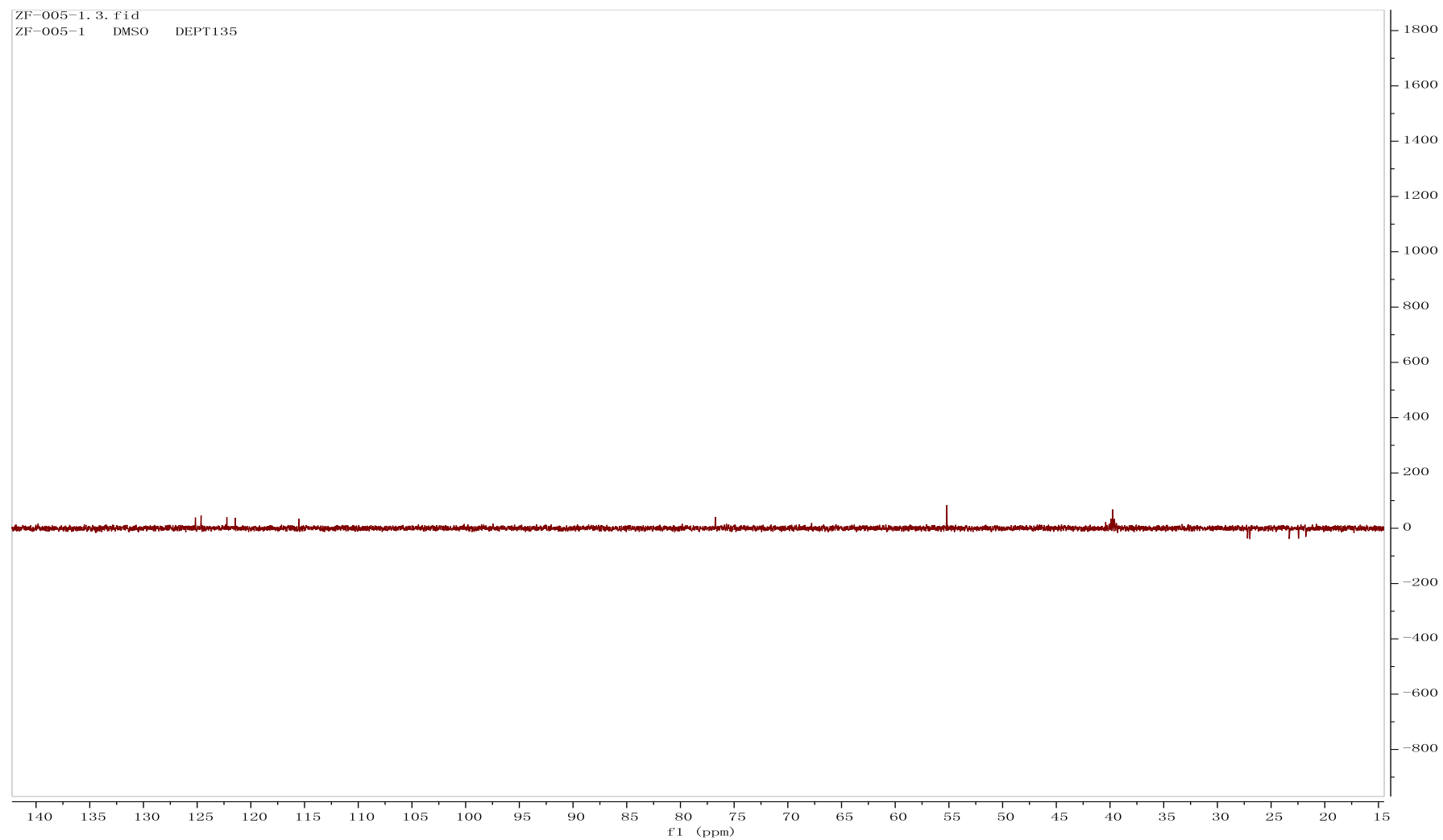


Figure S18. The DEPT Spectrum of Compound **4** in DMSO

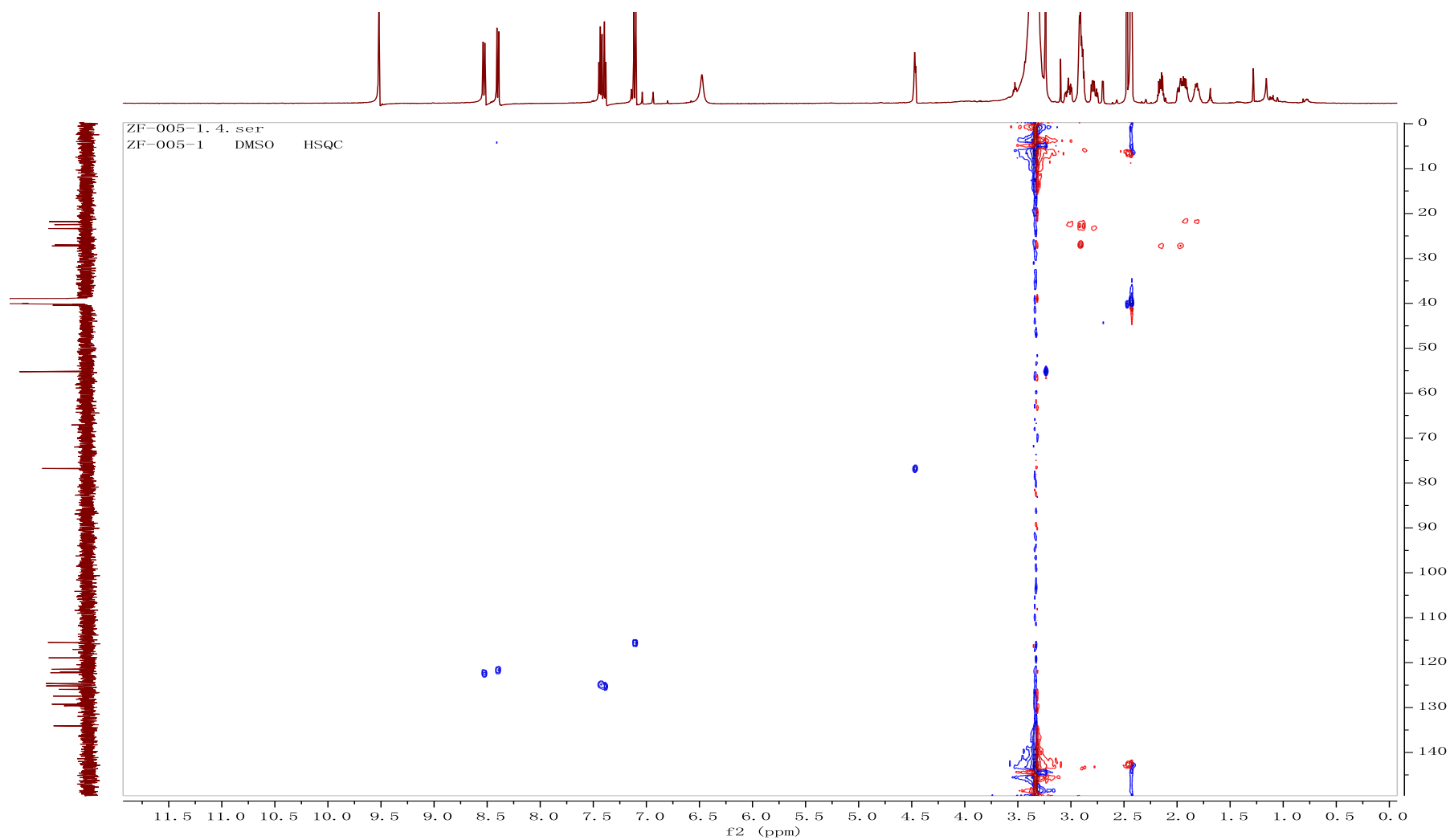


Figure S19. The HMQC Spectrum of Compound **4** in DMSO



Figure S20. The HMBC Spectrum of Compound **4** in DMSO

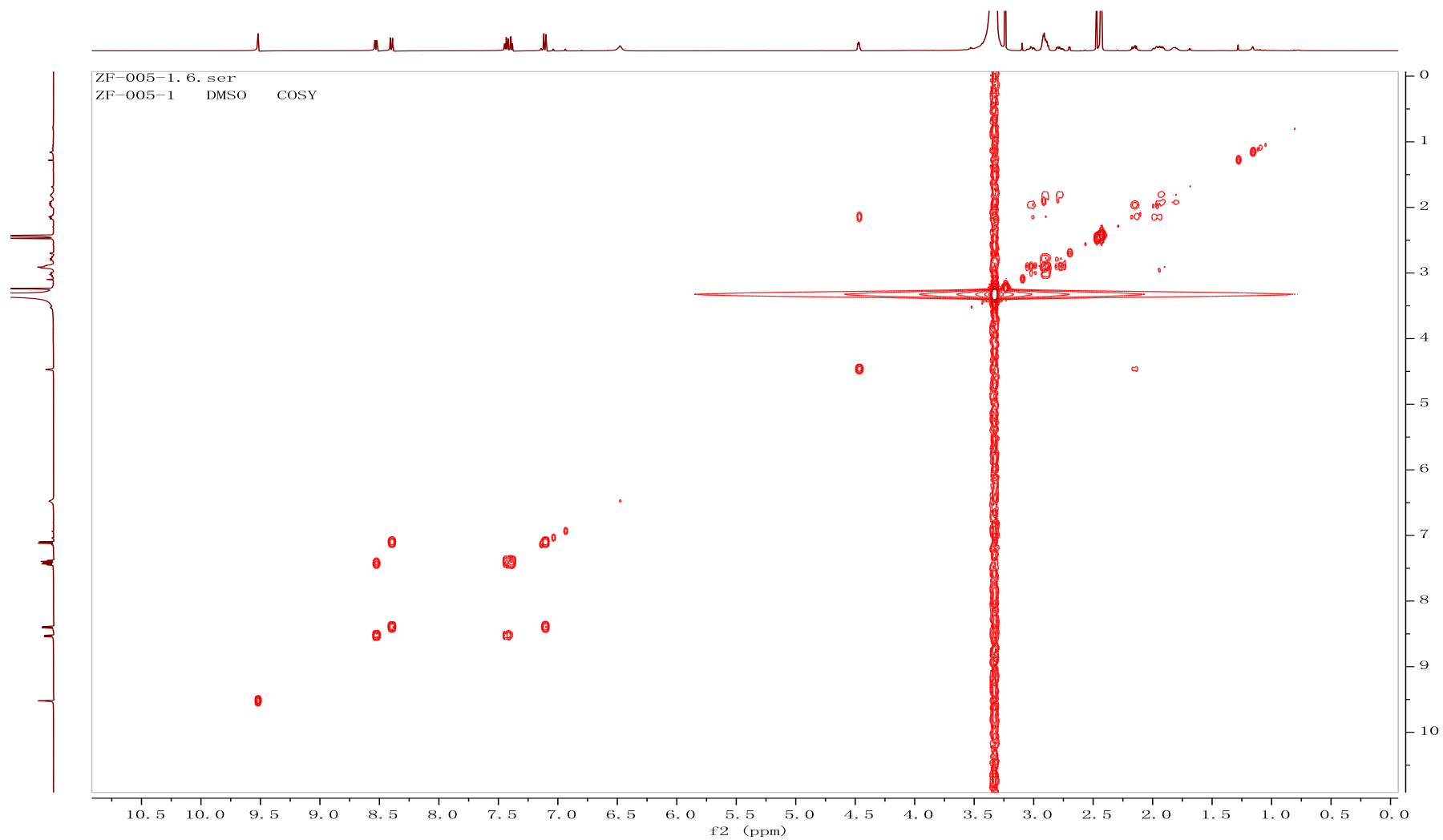
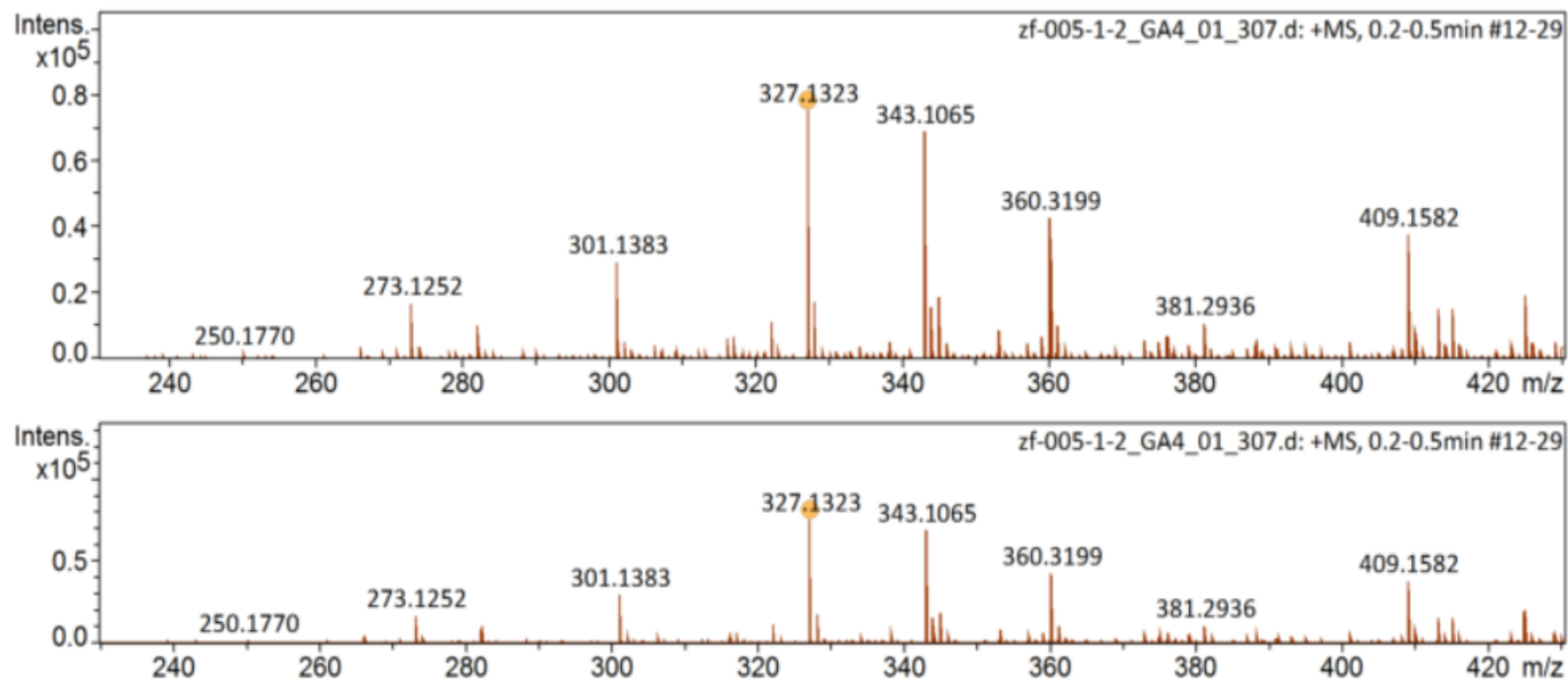


Figure S21. The COSY Spectrum of Compound **4** in DMSO



Meas. m/z	#	Ion Formula	m/z	err [ppm]	mSigma	# mSigma	Score	rdb	e ⁻ Conf	N-Rule	Adduct
327.1323	1	C ₂₁ H ₂₀ NaO ₂	327.1356	10.0	3.2	1	100.00	12.0	even	ok	M+Na

Figure S22. The HRESIMS Spectroscopic Data of Compound **4**

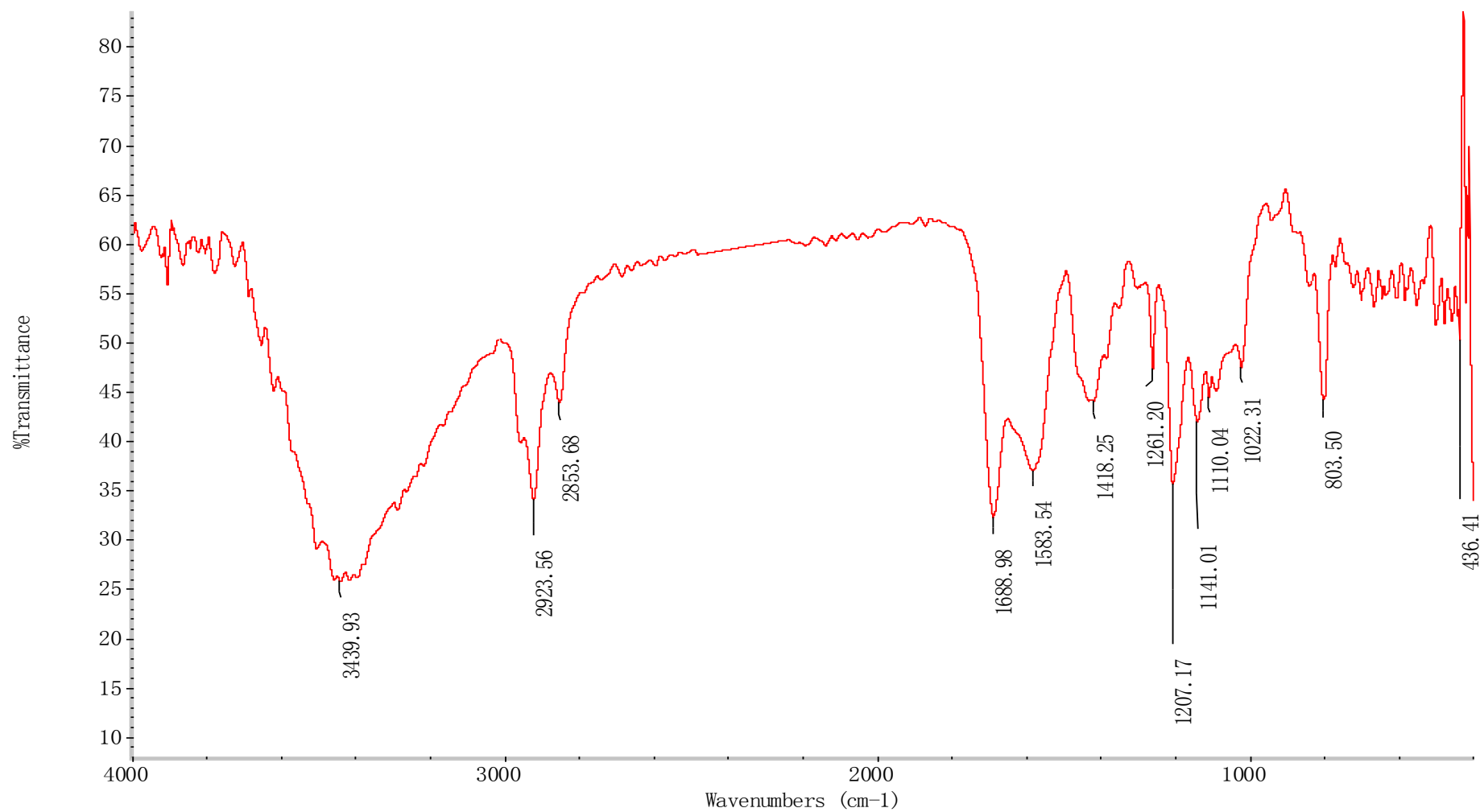


Figure S23. The IR Spectrum of Compound 4

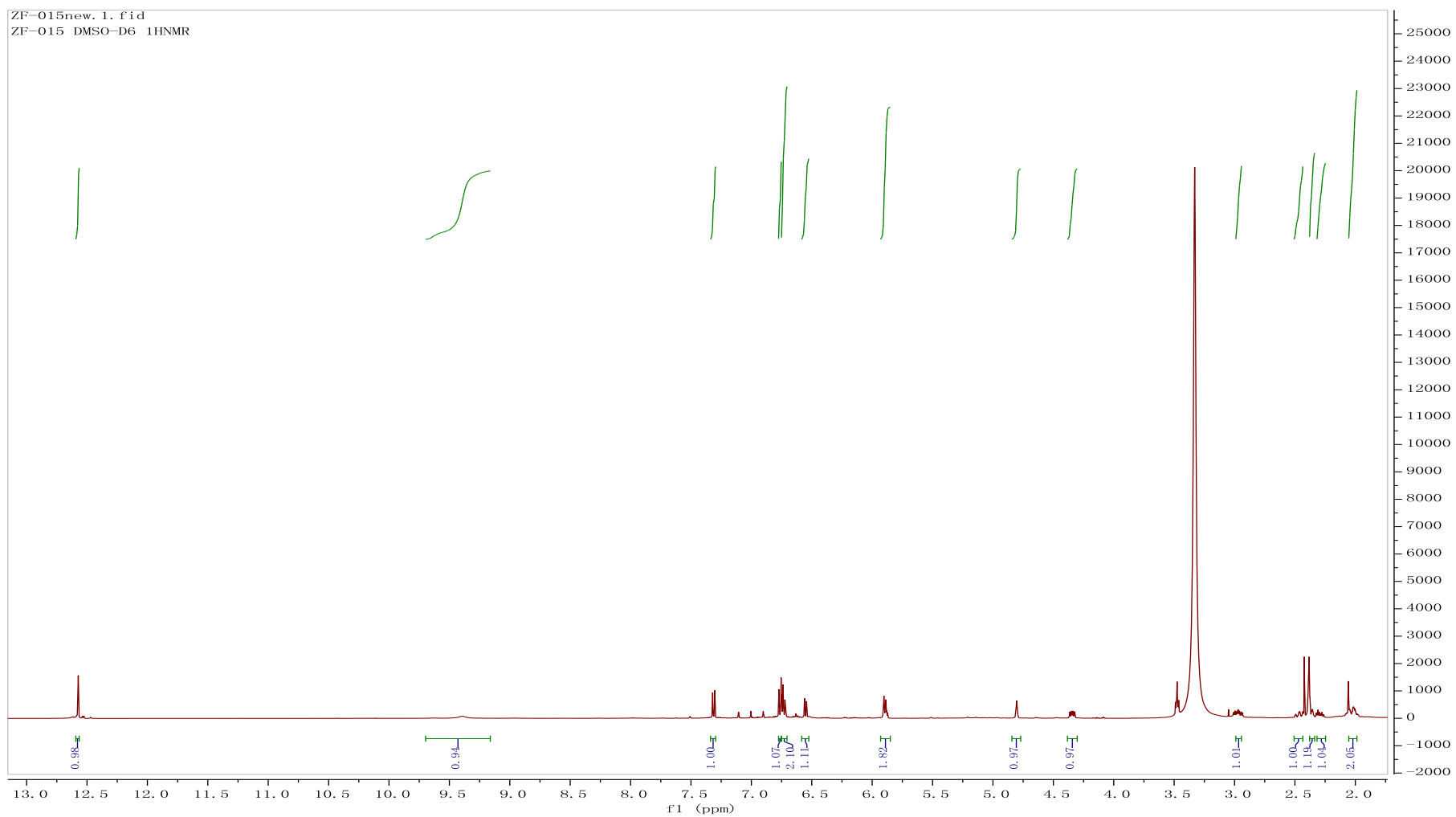


Figure S24. The ^1H NMR Spectrum of Compound **5** in DMSO

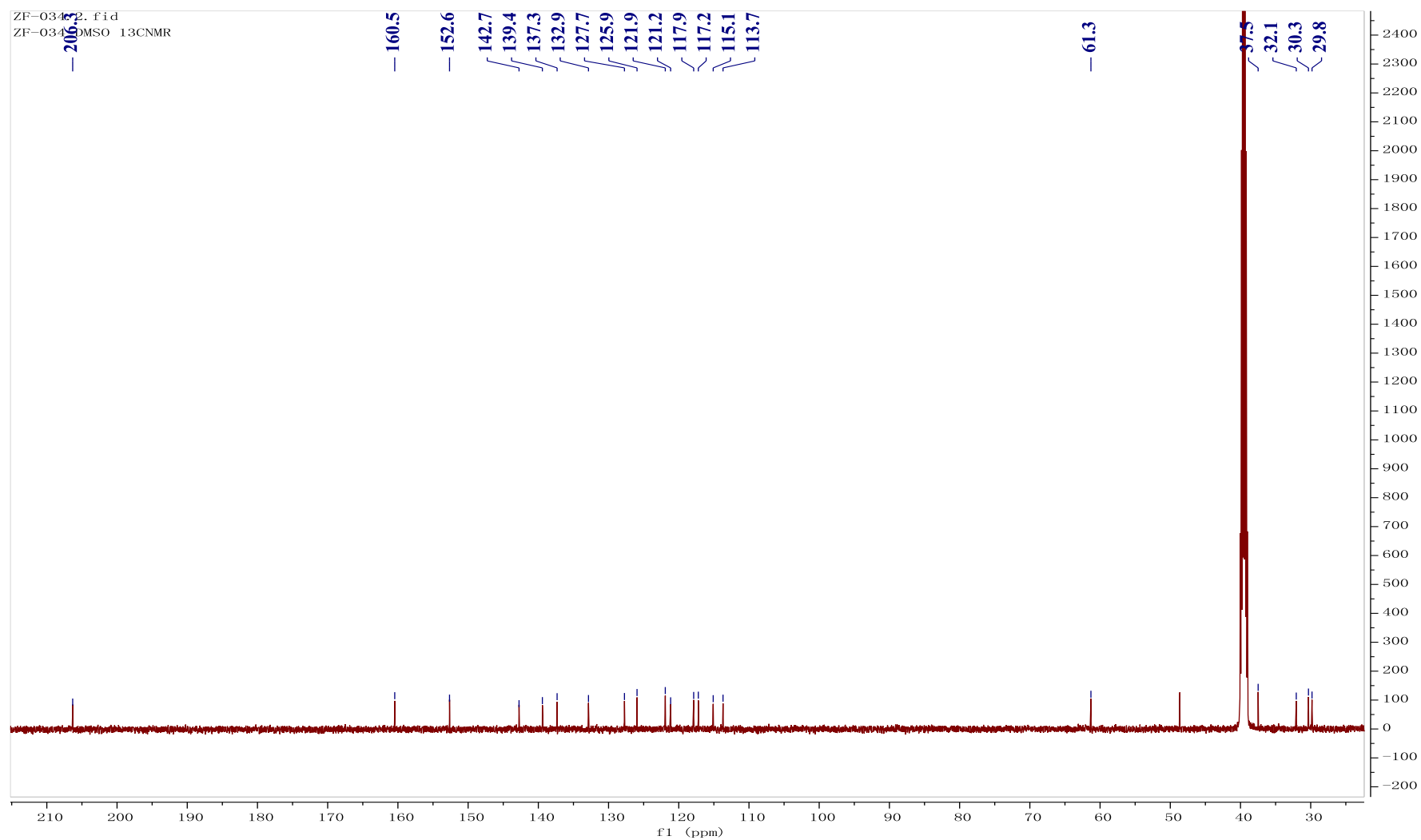


Figure S25. The ^{13}C NMR Spectrum of Compound **5** in DMSO

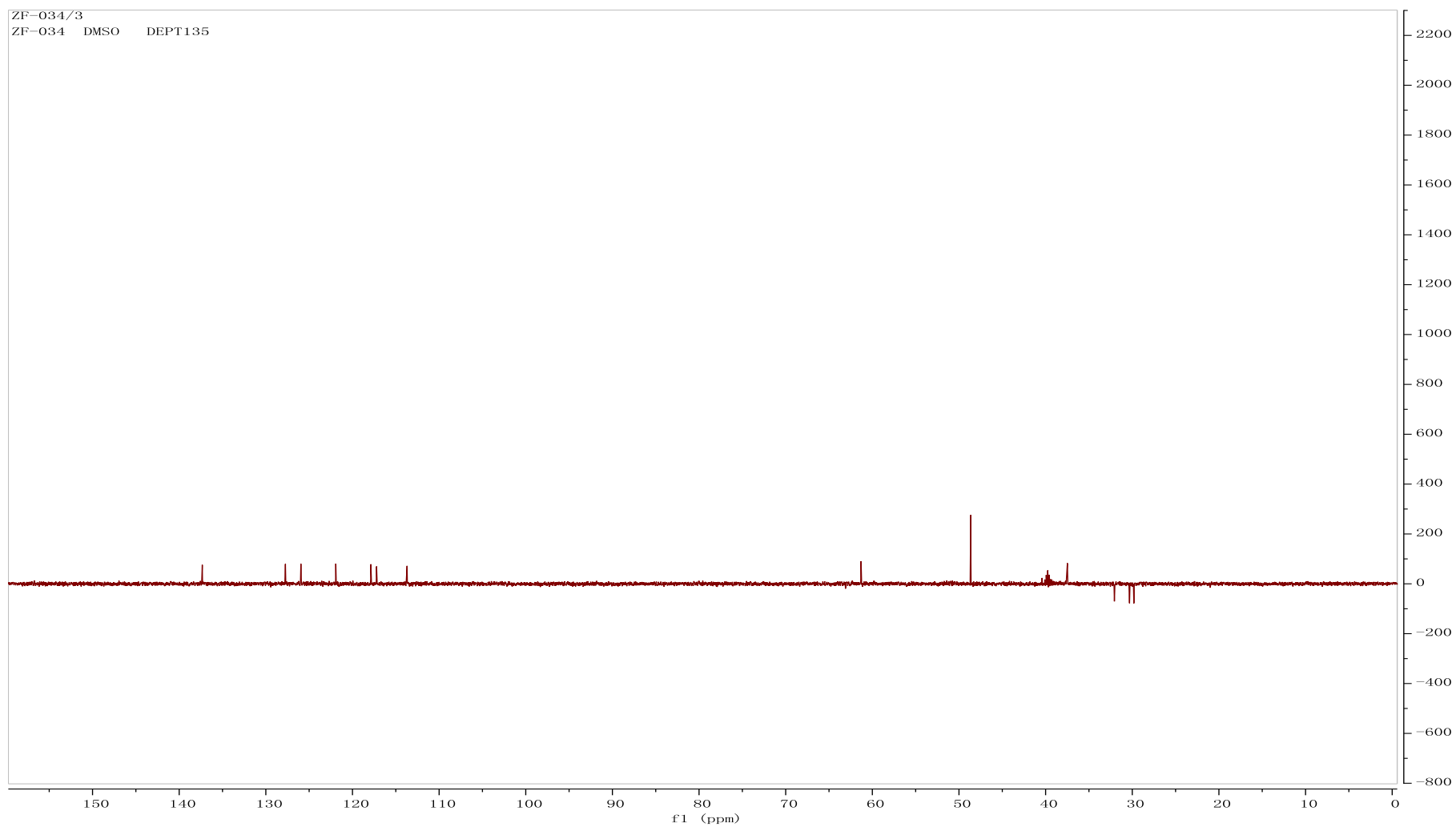


Figure S26. The DEPT Spectrum of Compound **5** in DMSO



29

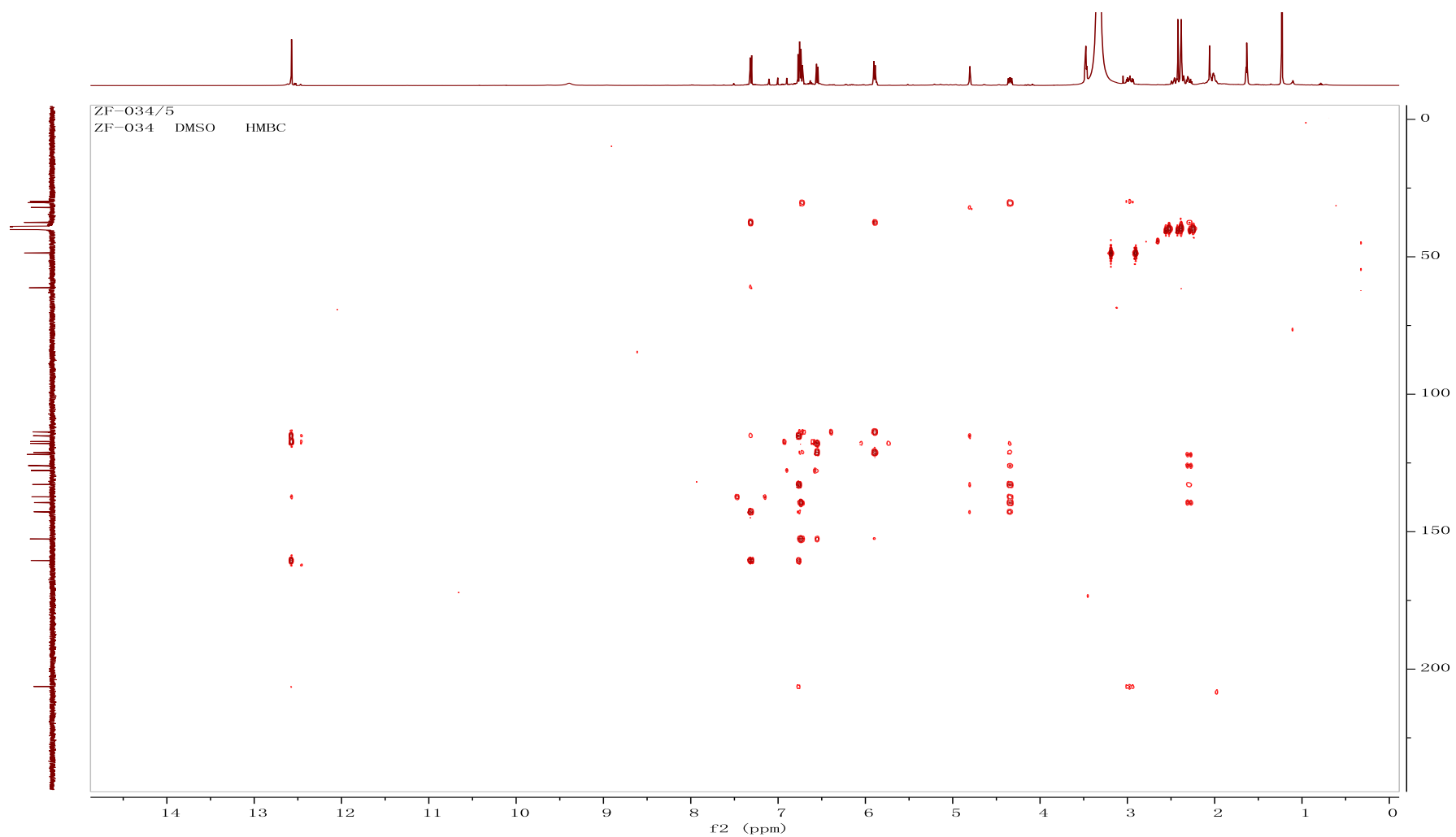


Figure S28. The HMBC Spectrum of Compound 5 in DMSO

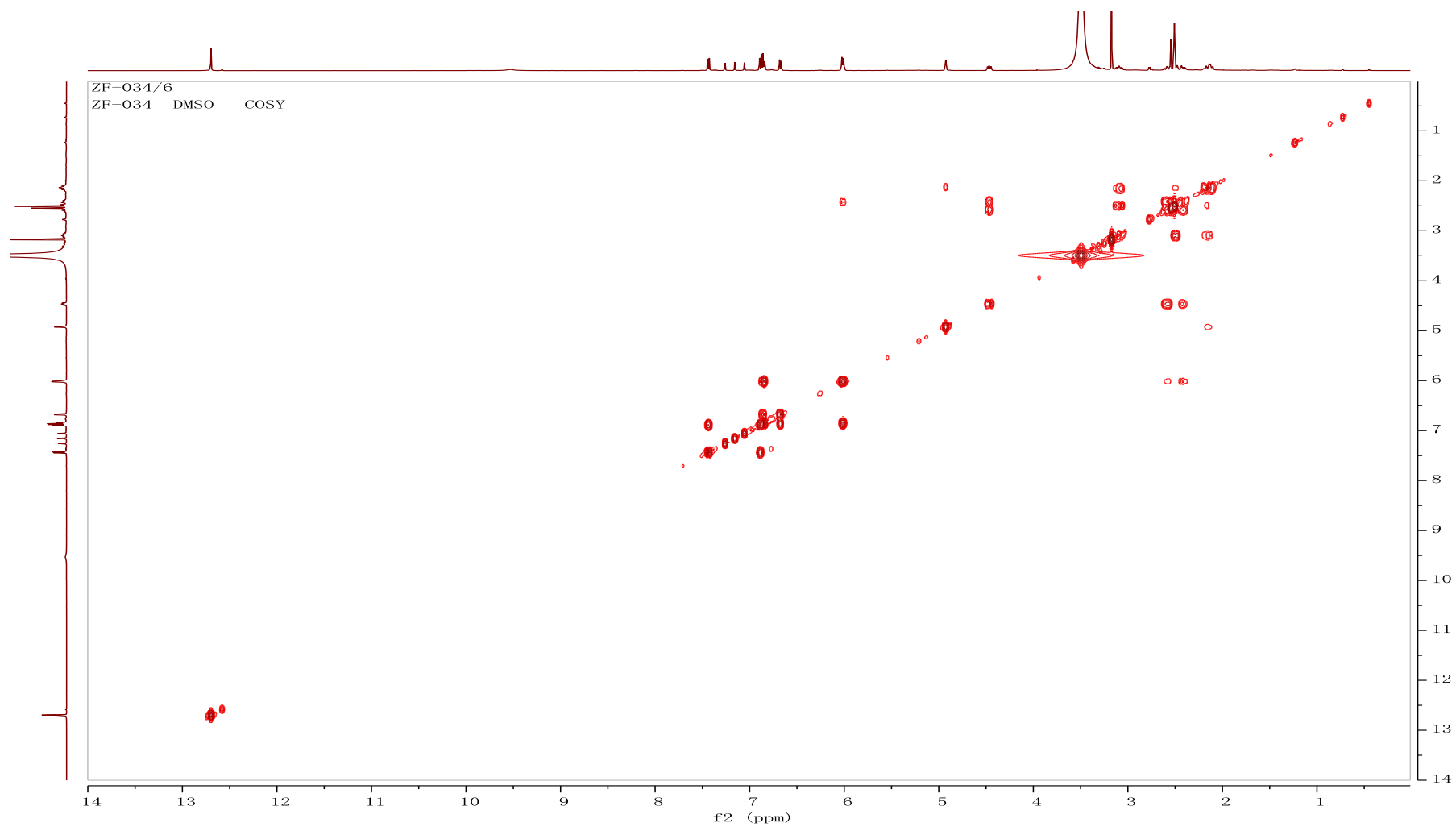
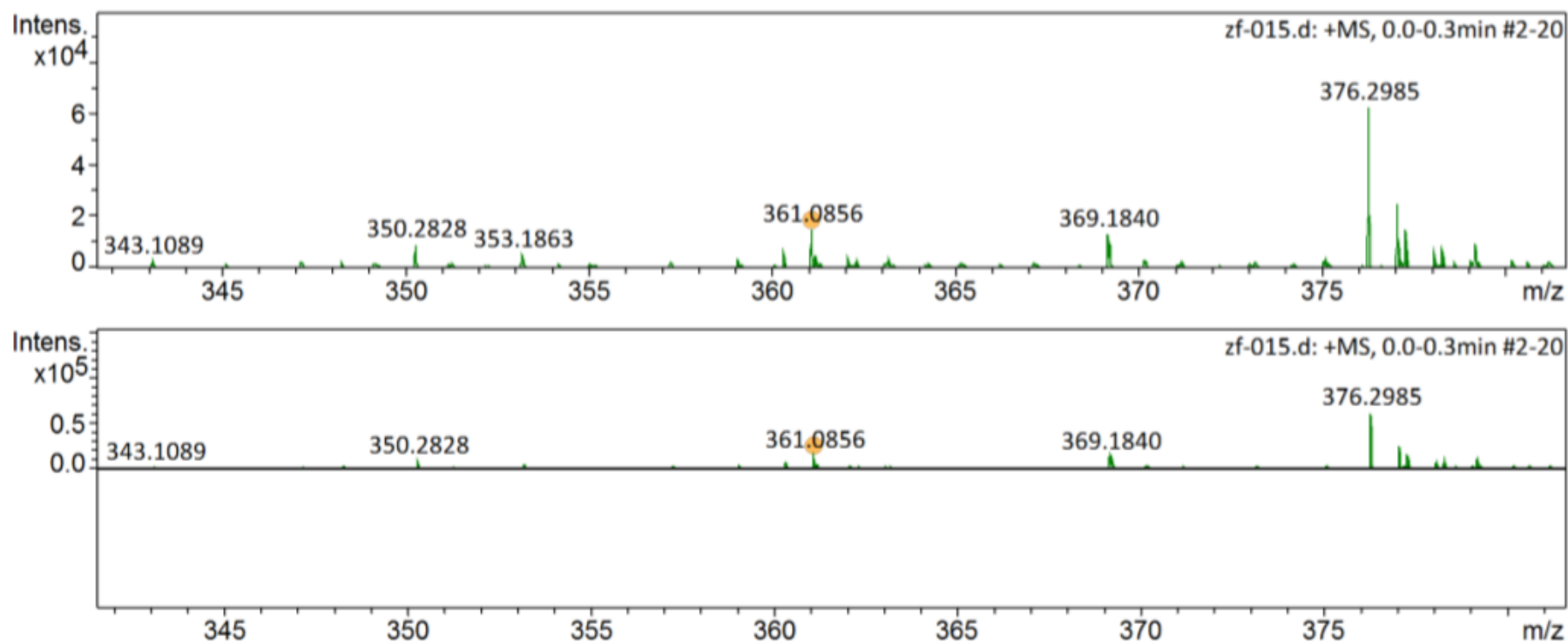


Figure S29. The COSY Spectrum of Compound **5** in DMSO



Meas. m/z	#	Ion Formula	m/z	err [ppm]	mSigma	# mSigma	Score	rdb	e ⁻ Conf	N-Rule	Adduct
361.0856	1	C ₂₀ H ₁₈ KO ₄	361.0837	-5.2	9.9	1	100.00	12.0	even	ok	M+K

Figure S30. The HRESIMS Spectroscopic Data of Compound 5

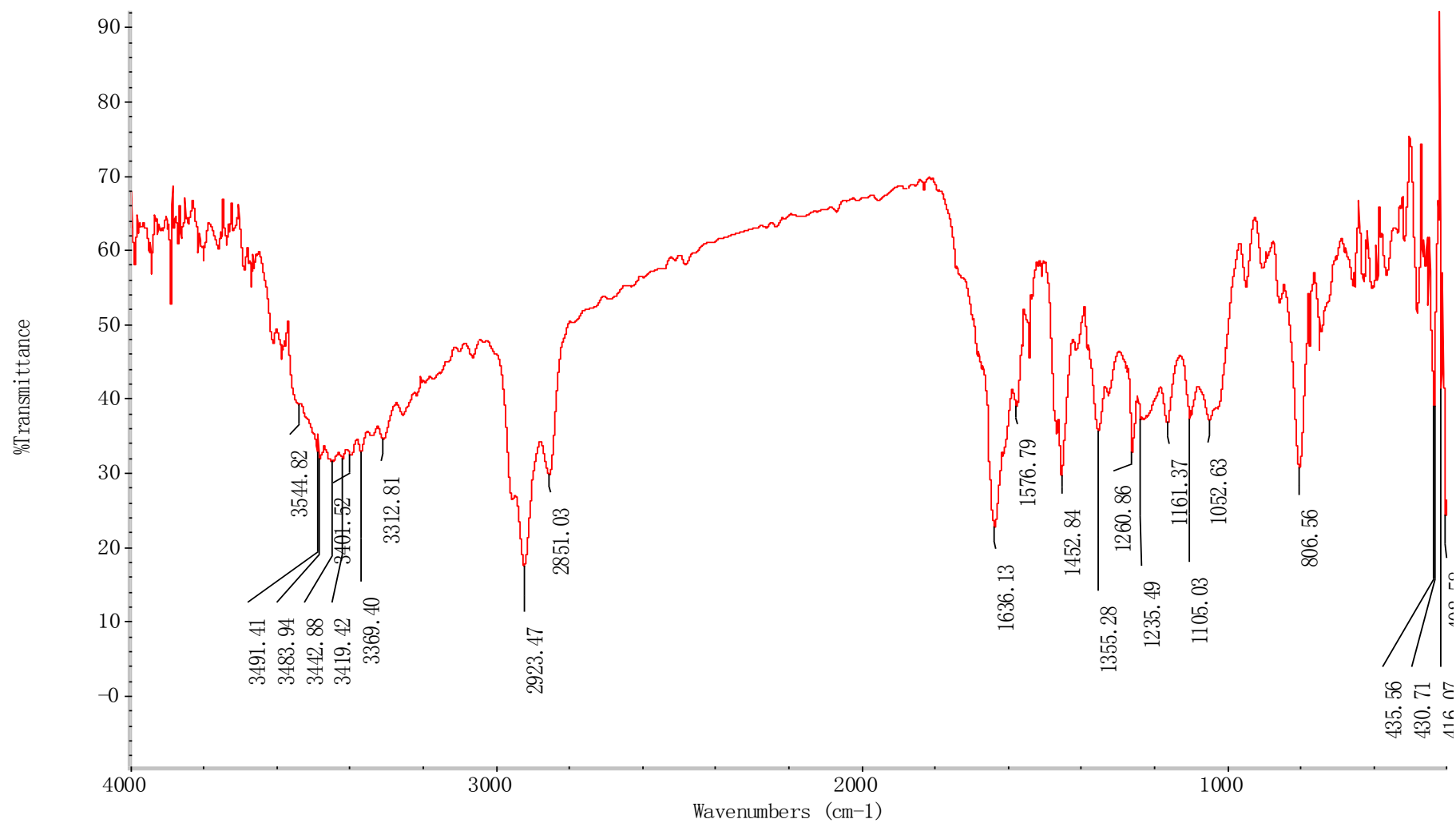


Figure S31. The IR Spectrum of Compound 5

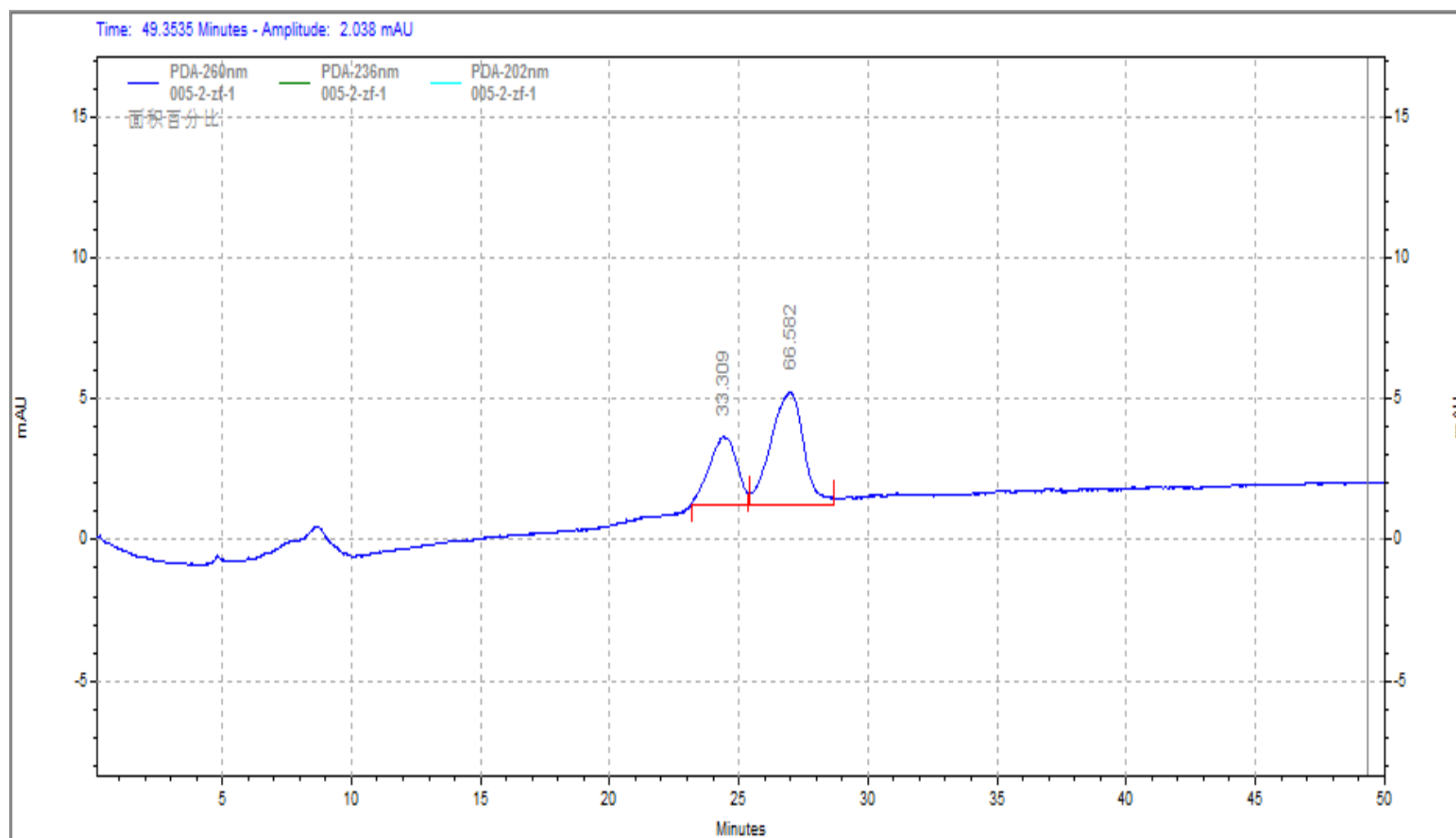


Figure S32. A peak area ratio of compounds **2** and **3** over a chiral column



Figure S33. The picture of strain *Cladosporium* sp. KFD33

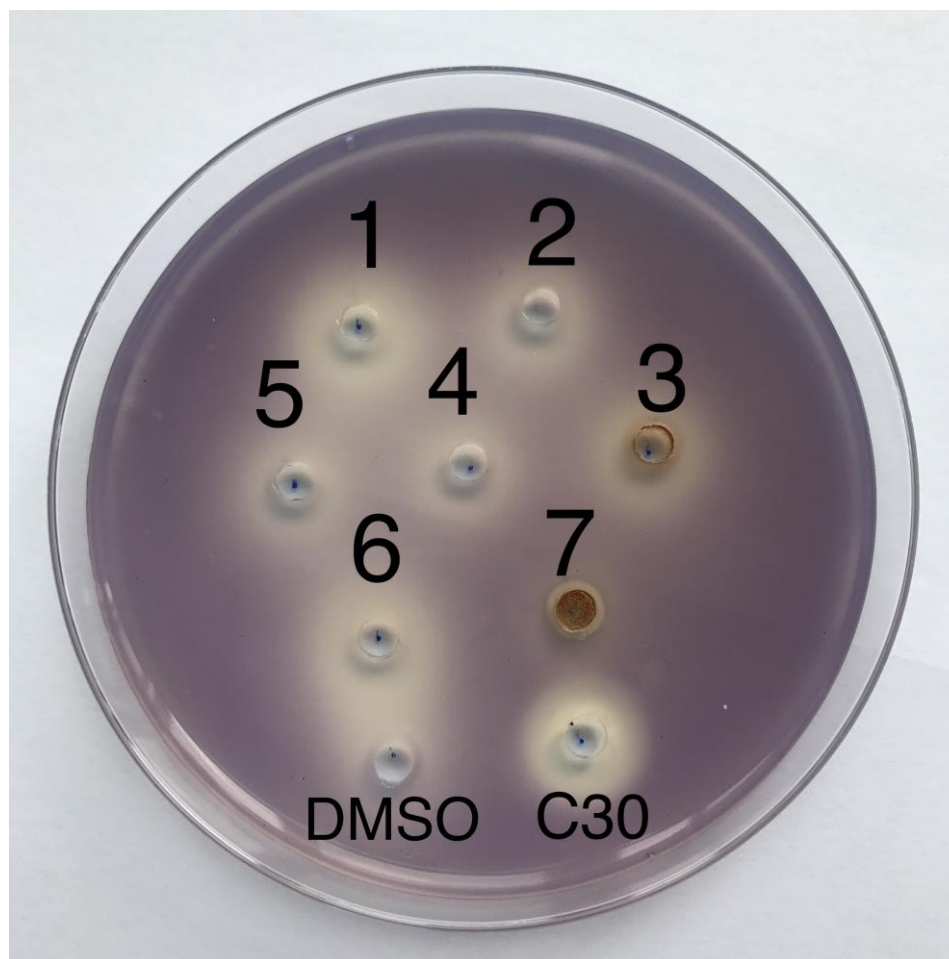


Figure S34. *C. violaceum* CV026 well diffusion assay
(Compounds 1-6 with 30, 30, 20, 30, 20 and 30 $\mu\text{g}/\text{well}$)

18S rRNA gene sequences of *Cladosporium* sp. KFD33

GCACTATACGGTGAAACTGCGAATGGCTCATTAAATCAGTTATCGTTTATTTGATAGTACCTTACTACATGGATAACCGTGGTAATTCTAGAG
CTAATACATGCTAAAAACCTCGACTTCGGAAGGGGTGTATTTATTAGATAAAAAACCAATGCCCTTCGGGGCTCCTTGGTGAATCATAATAA
CTTAACGAATCGCATGGCCTTGCGCCGGCGATGGTTCATTCAAATTTCTGCCCTATCAACTTTTCGATGGTAGGATAGTGGCCTACCATGGTAT
CAACGGGTAACGGGGAATTAGGGTTCGACTCCGGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGGCGCGCAAATT
ACCCAATCCCGACACGGGGAGGTAGTGACAATAAATACTGATACAGGGCTCTTTTGGGTCTTGTAATTGGAATGAGTACAATTTAAATCCCT
TAACGAGGAACAATTGGAGGGCAAGTCTGGTGCCAGCAGCCGCGGTAATTCCAGCTCCAATAGCGTATATTAAAGTTGTTGCAGTTAAAAA
GCTCGTAGTTGAACCTTGGGCCTGGCTGGCCGGTCCGCCTCACCGCGTGTACTGGTCCGGCCGGGCCTTTCCTTCTGGGGAACCTCATGCCCTT
CACTGGGCGTGTTGGGGAACCAGGACTTTTACTTTGAAAAAATTAGAGTGTTCAAAGCAGGCCTTTGCTCGAATACATTAGCATGGAATAAT
AGAATAGGACGTGTGGTTCTATTTTGTGGTTTCTAGGACCGCCGTAATGATTAATAGGGATAGTCGGGGGCATCAGTATTCAATCGTCAGAG
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AGACGATCAGATACCGTCGTAGTCTTAACCATAAACTATGCCGACTAGGGATCGGACGGTGTTAGTATTTGACCCGTTTCGGCACCTTACGA
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TTGGCGGGTTCGCCGGCTTCTTAGAGGGACTATC