

Supporting Information

In this ‘Supporting Information’ file for the manuscript entitled “**Germacrane sesquiterpene dilactones from *Mikania micrantha* and their antibacterial and cytotoxic activity**”, HR-ESI-MS, 1D and 2D NMR spectra of new compounds **1**, **2**, **3** and **4** are available here as listed below.

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Page 2–8: HR-ESI-MS, ^1H and ^{13}C NMR, HSQC, HMBC and NOESY spectra of compound **1**.

Page 9–15: HR-ESI-MS, ^1H and ^{13}C NMR, HSQC, HMBC and NOESY spectra of compound **2**.

Page 16–22: HR-ESI-MS, ^1H and ^{13}C NMR, HSQC, HMBC and NOESY spectra of compound **3**.

Page 23–29: HR-ESI-MS, ^1H and ^{13}C NMR, HSQC, HMBC and NOESY spectra of compound **4**.

HR-ESI-MS(-) of compound 1

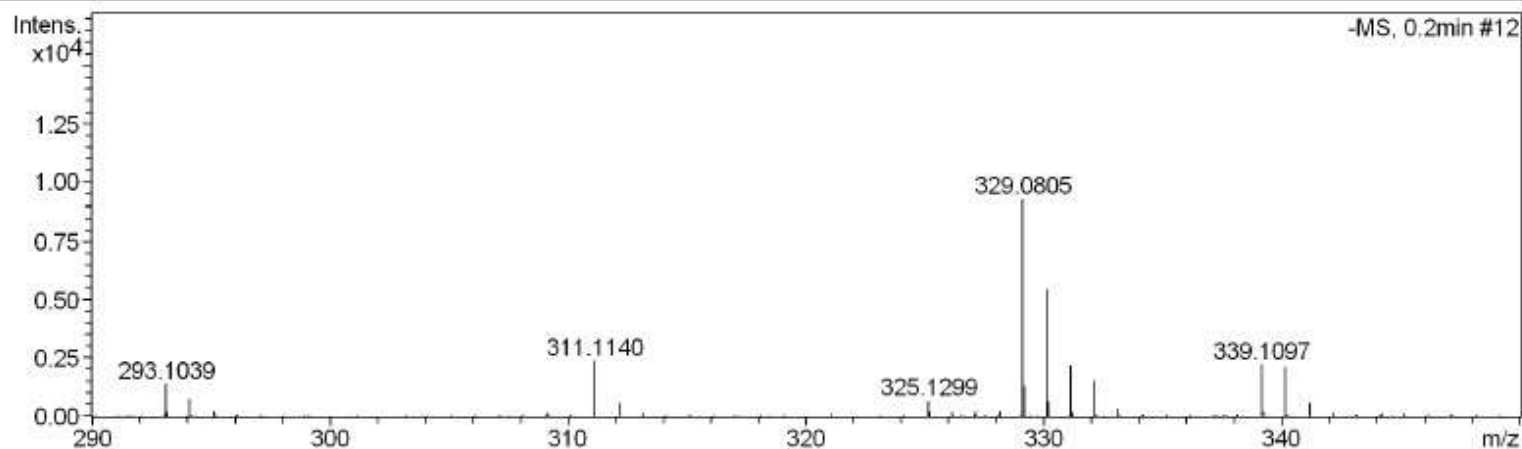
Mass Spectrum SmartFormula Report

Analysis Info

Analysis Name D:\Data\MS\data\202101\donglimei_E7-2-3-2_neg_33_01_1351.d
 Method LC_Direct Infusion_neg_100-1000mz.m Operator SCSIO
 Sample Name donglimei_E7-2-3-2_neg Instrument / Ser# maXis 29
 Comment

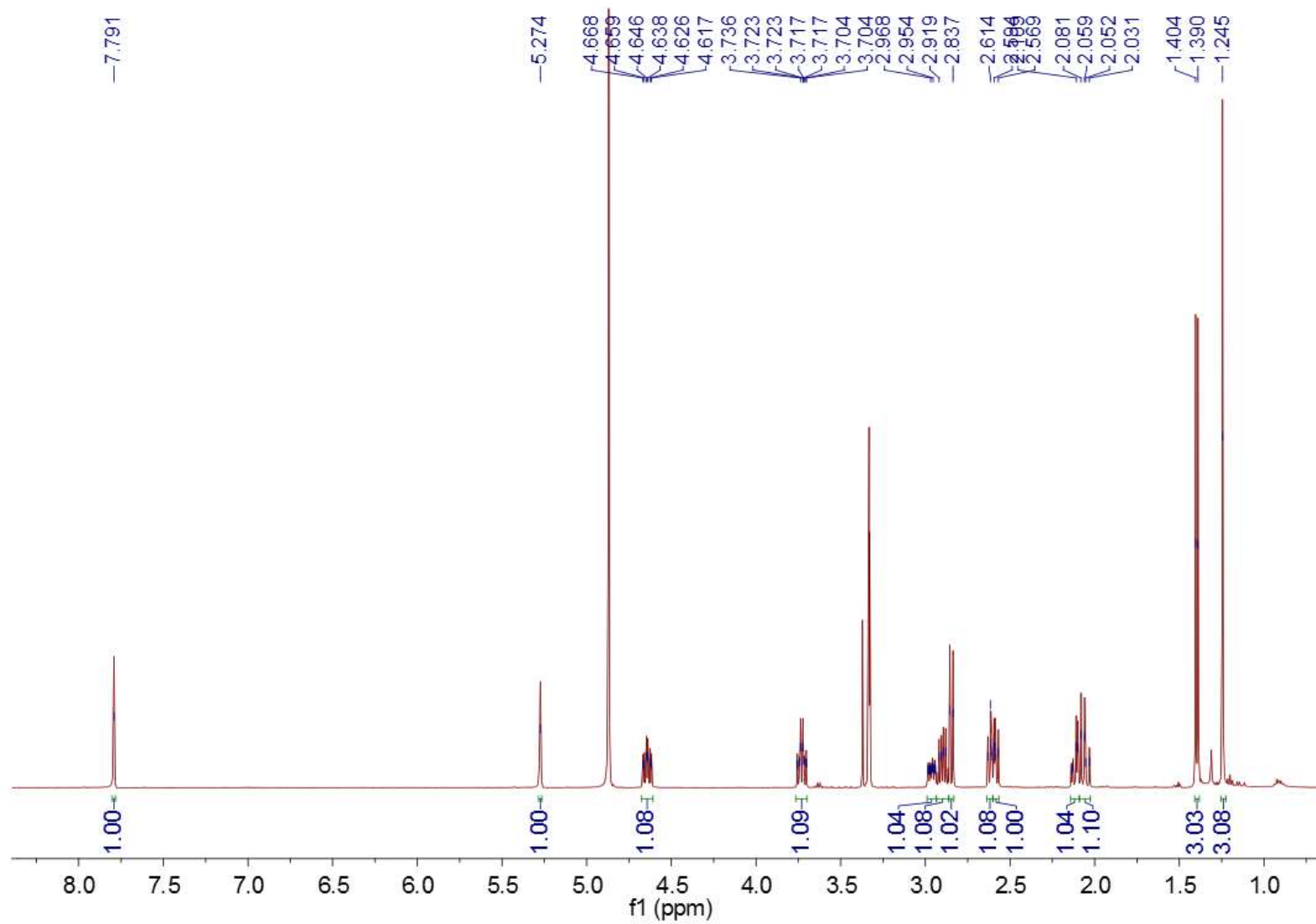
Acquisition Parameter

Source Type ESI Ion Polarity Negative Set Nebulizer 0.4 Bar
 Focus Active Set Capillary 3800 V Set Dry Heater 180 °C
 Scan Begin 100 m/z Set End Plate Offset -500 V Set Dry Gas 4.0 l/min
 Scan End 2000 m/z Set Collision Cell RF 550.0 Vpp Set Divert Valve Waste

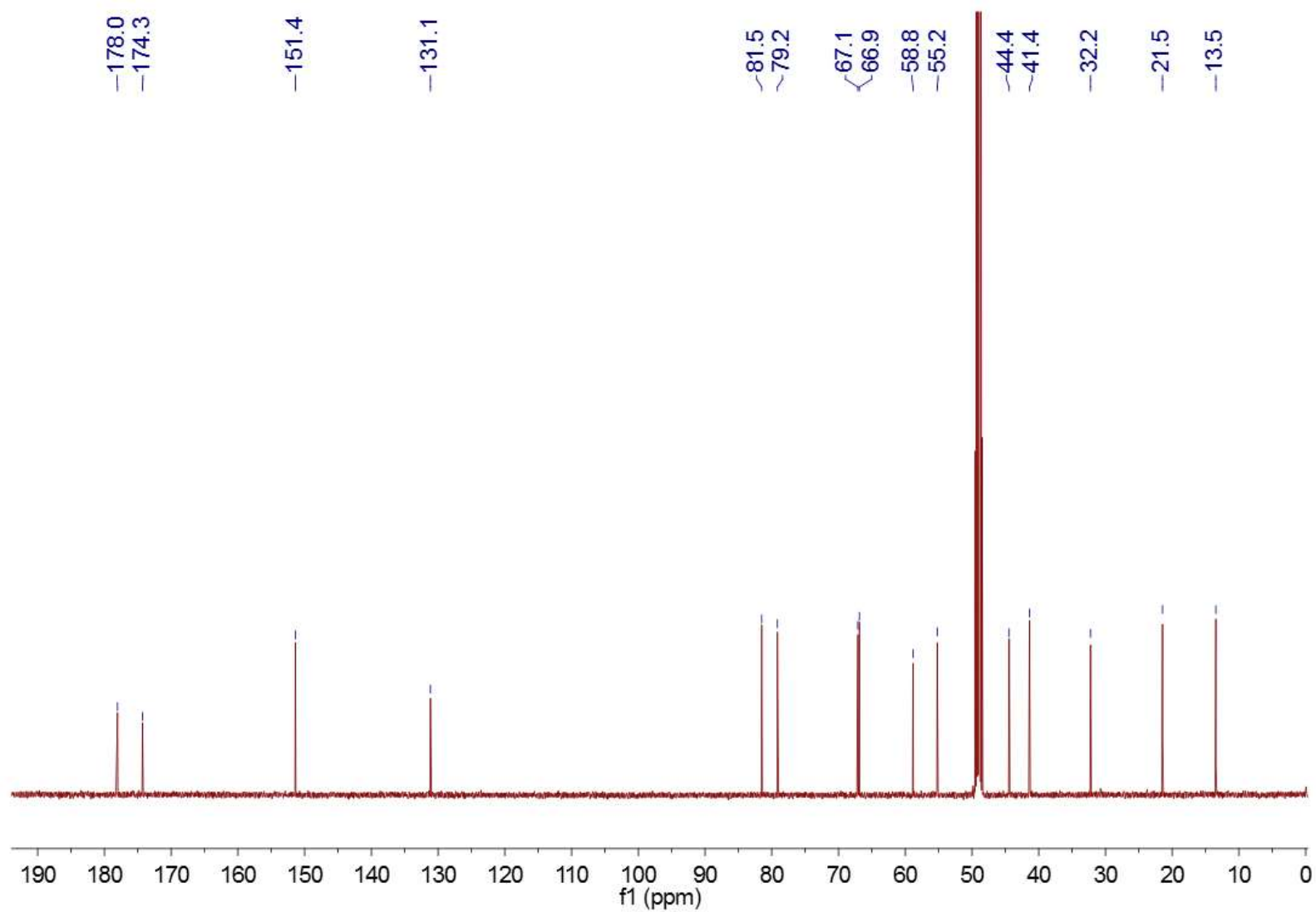


Meas. m/z	#	Formula	Score	m/z	err [ppm]	err [mDa]	mSigma	rdB	e ⁻ Conf	N-Rule
293.1039	1	C 15 H 17 O 6	100.00	293.1031	-3.0	-0.9	207.7	7.5	even	ok
329.0805	1	C 15 H 18 Cl O 6	100.00	329.0797	-2.4	-0.8	202.6	6.5	even	ok

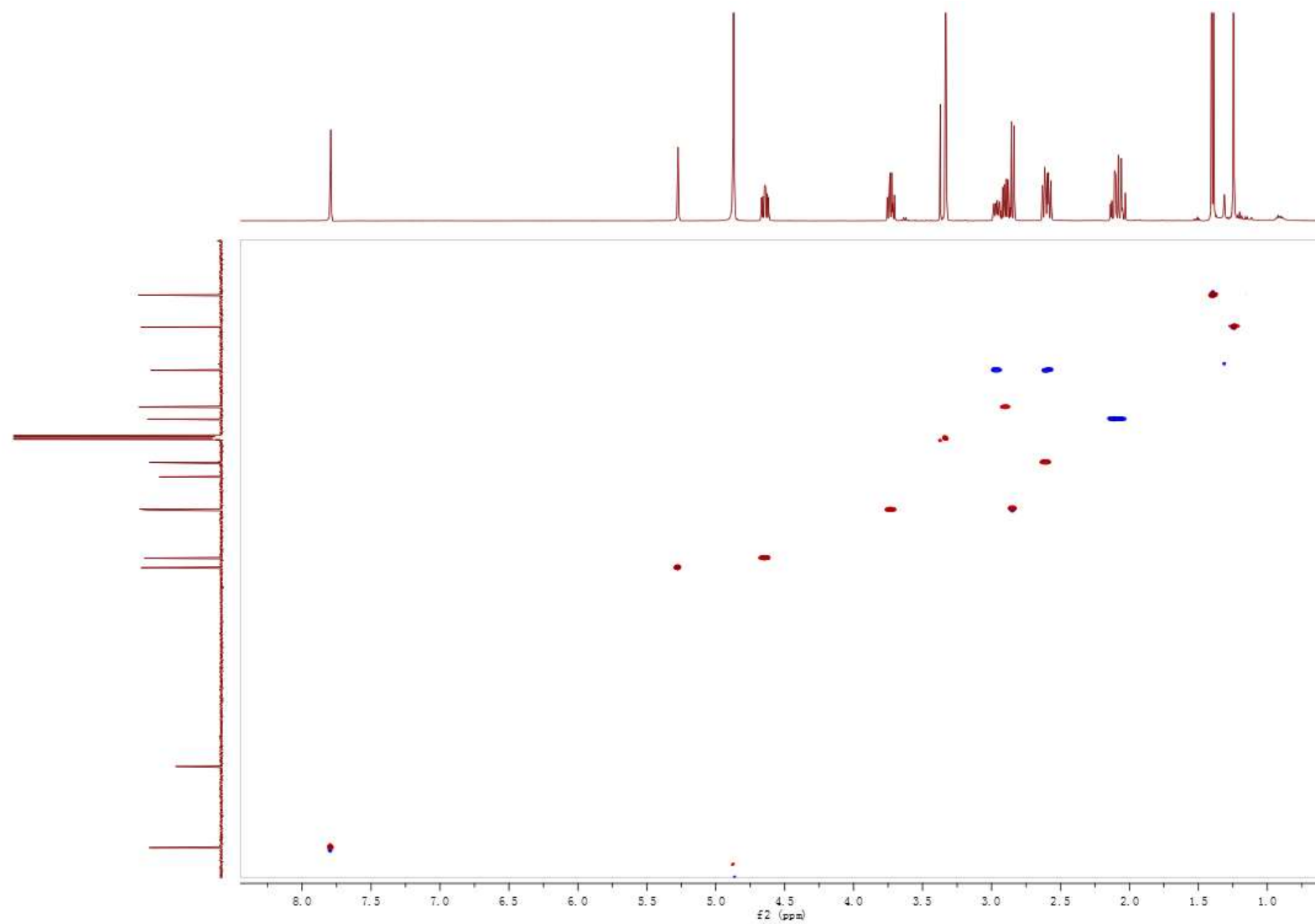
^1H -NMR spectrum of compound **1**



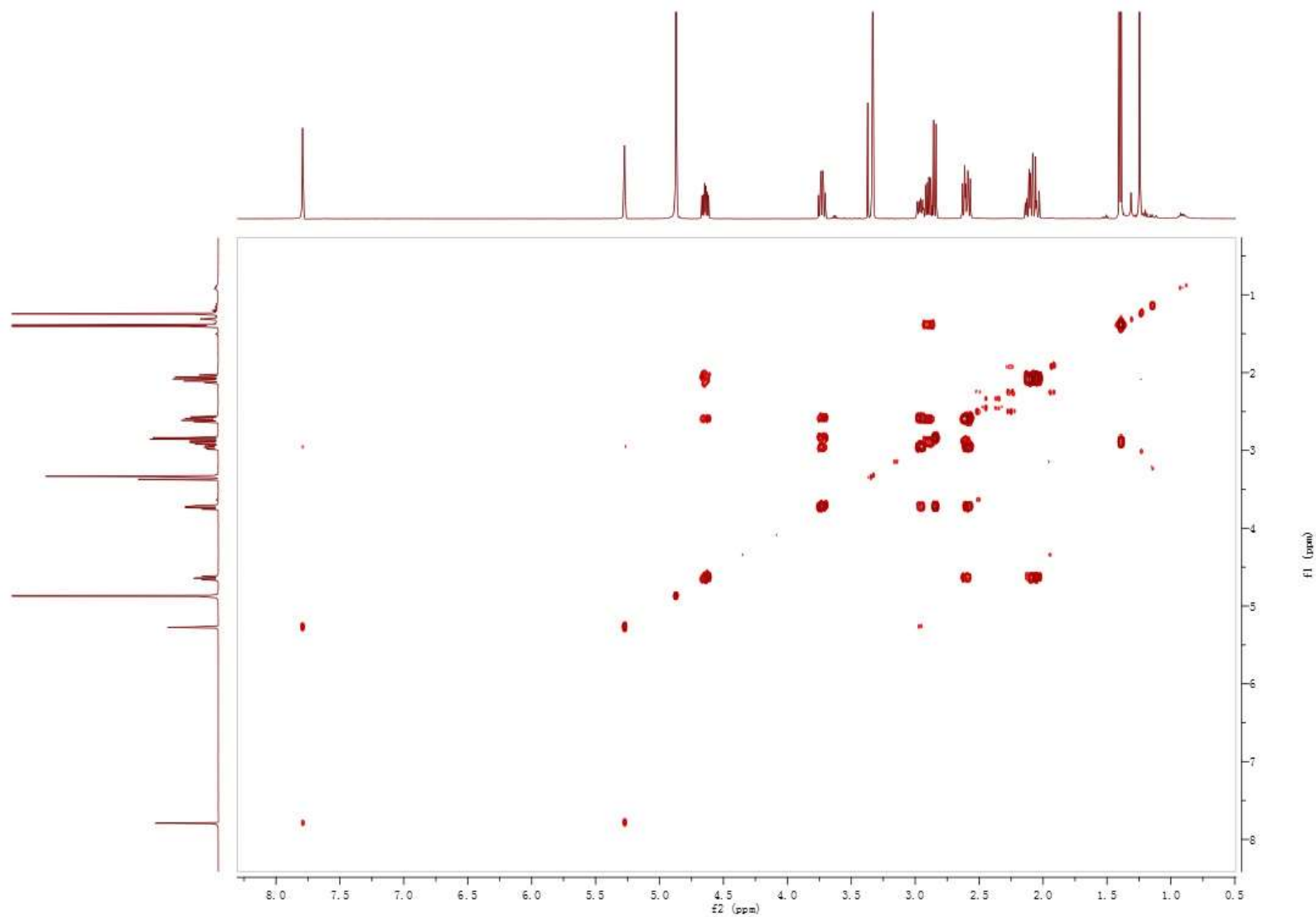
^{13}C -NMR spectrum of compound **1**



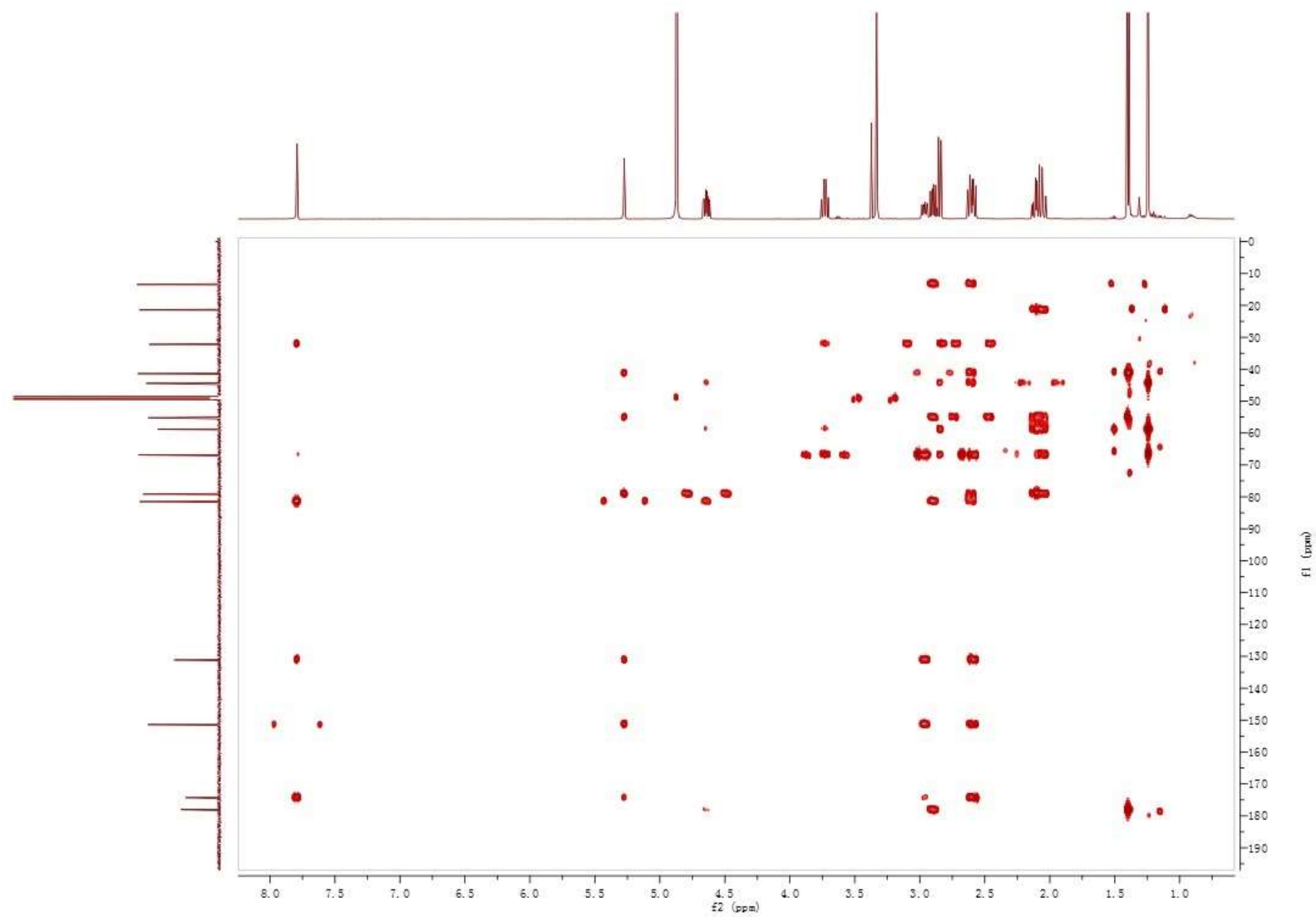
HSQC spectrum of compound 1



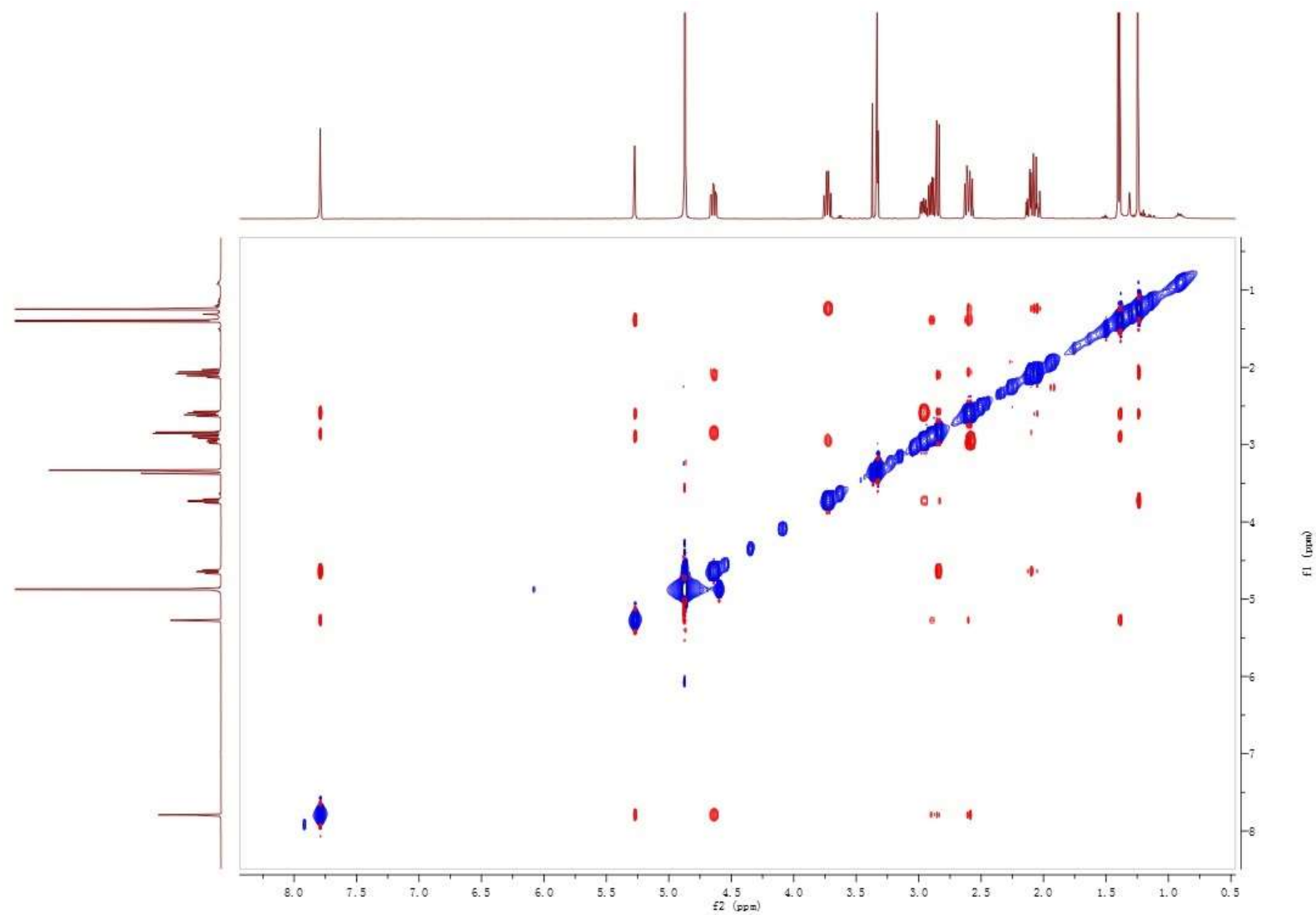
^1H - ^1H COSY spectrum of compound **1**



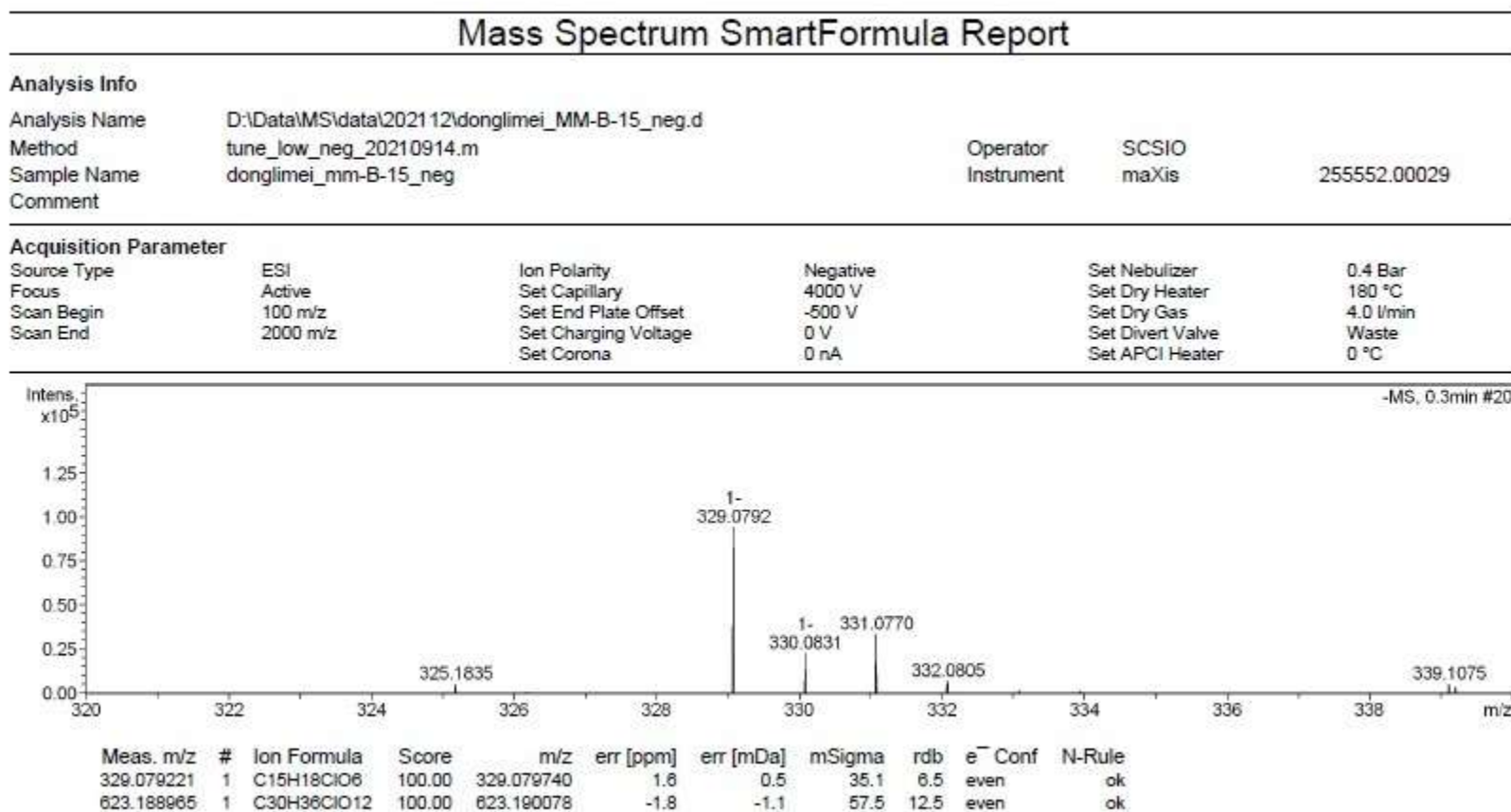
HMBC spectrum of compound **1**



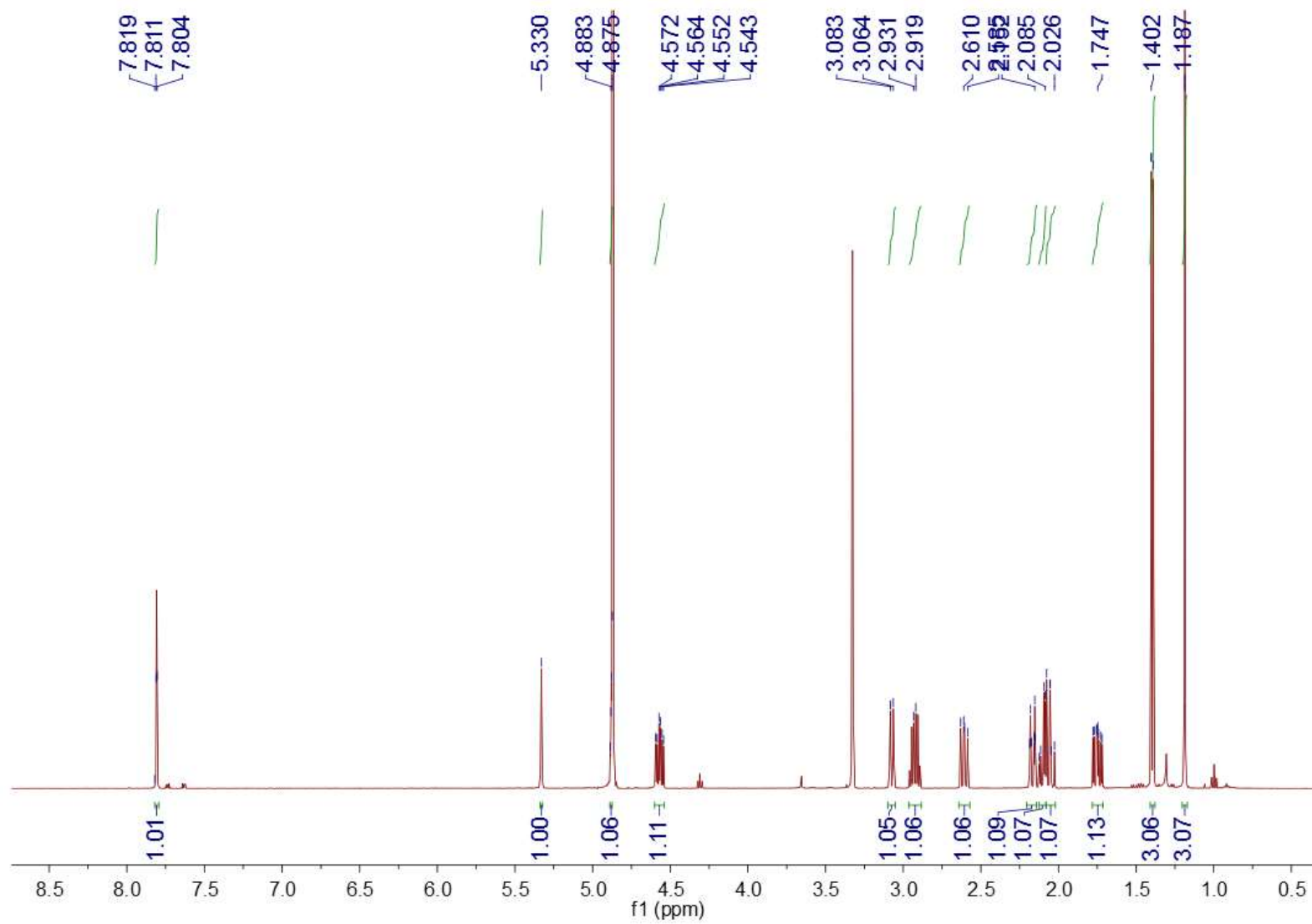
NOESY spectrum of compound **1**



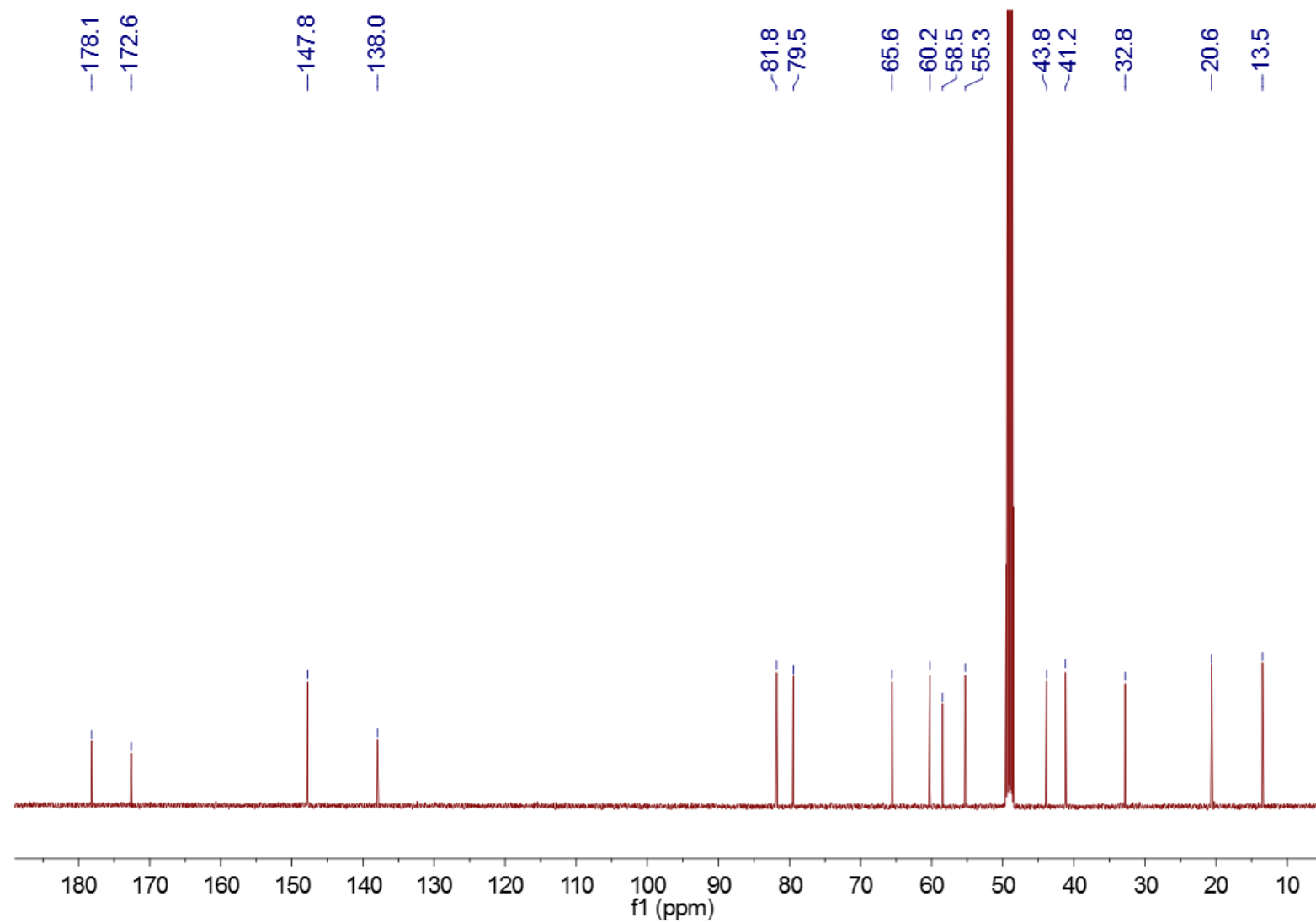
HR-ESI-MS(-) of compound 2



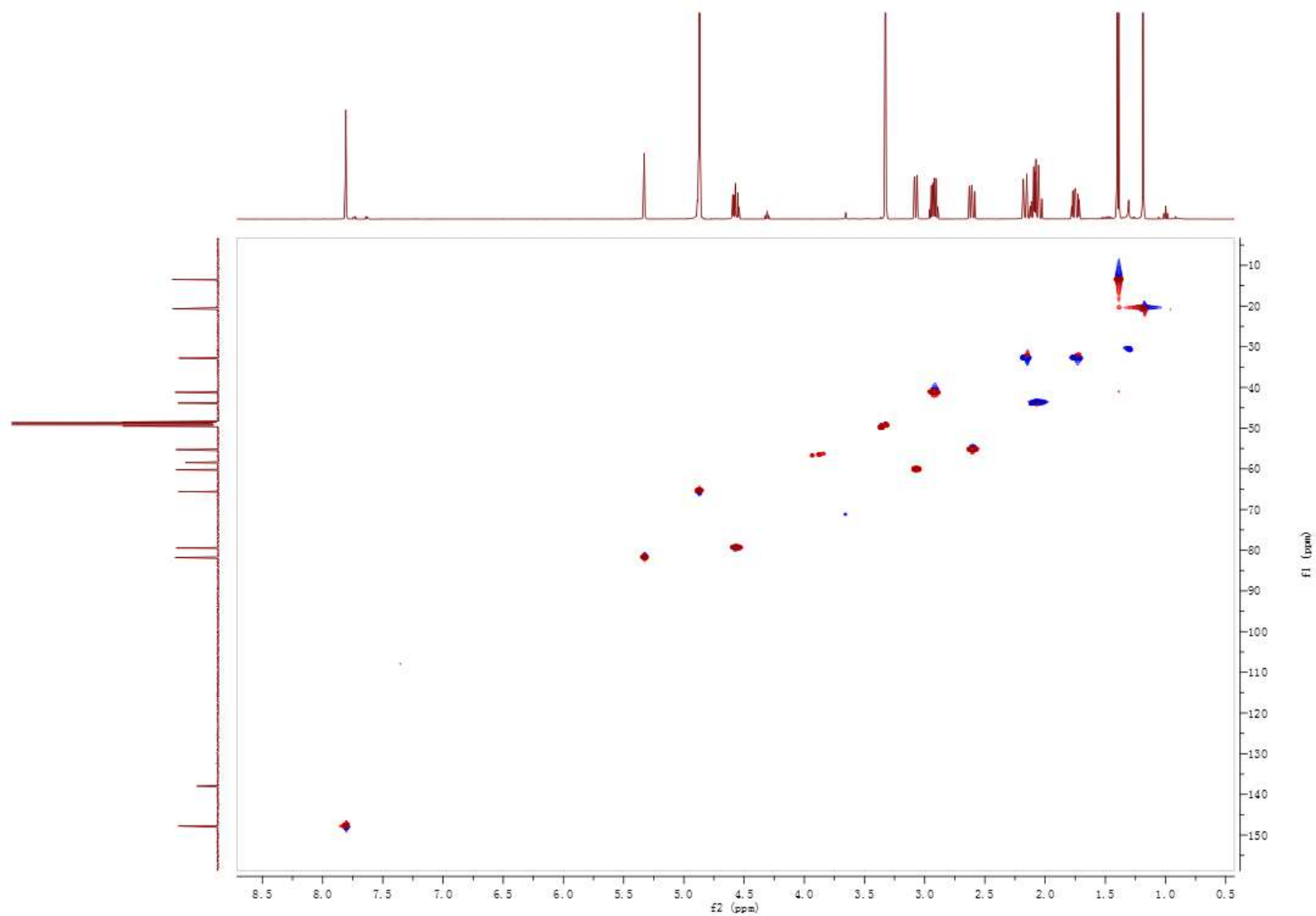
¹H-NMR spectrum of compound **2**



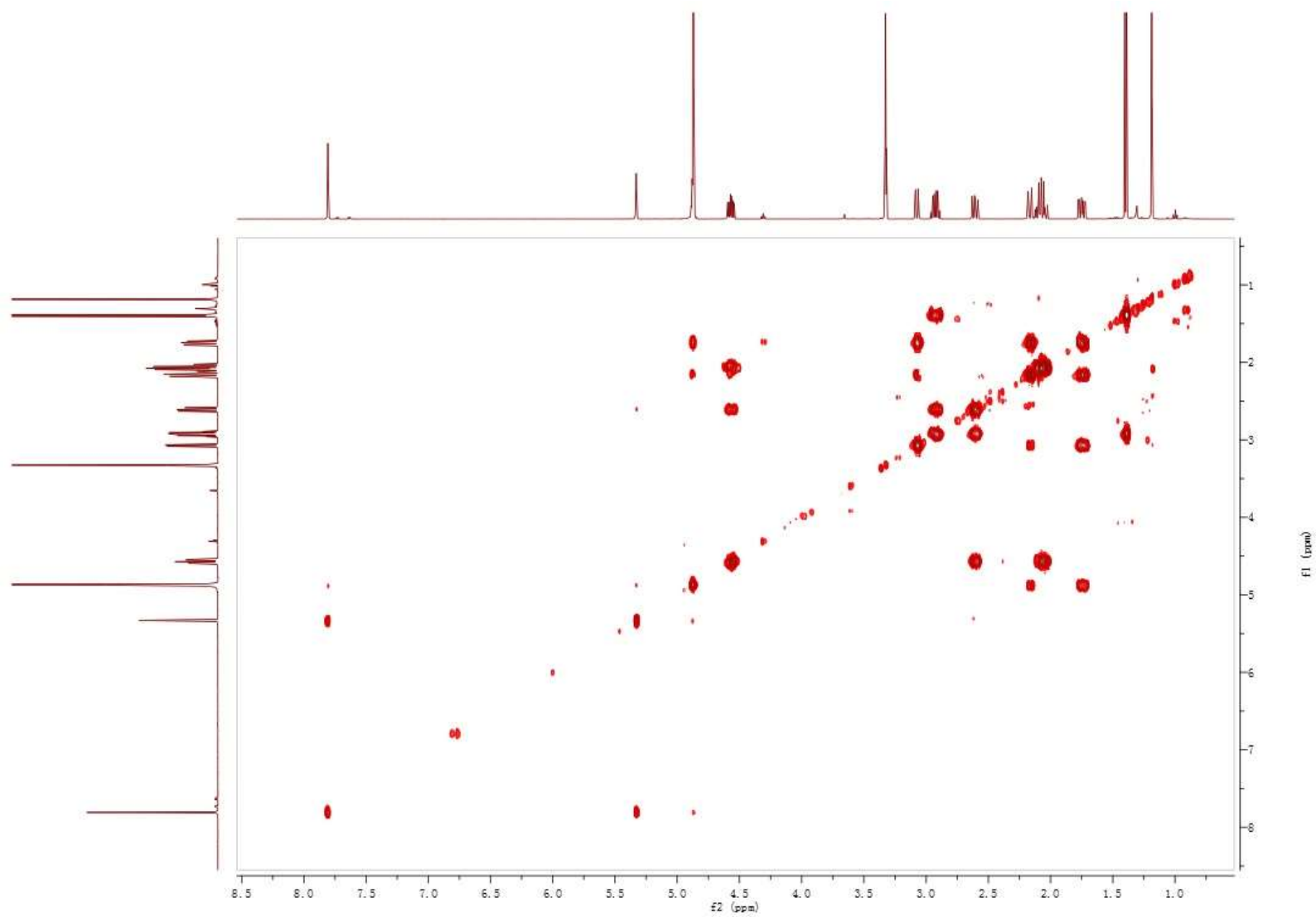
^{13}C -NMR spectrum of compound **2**



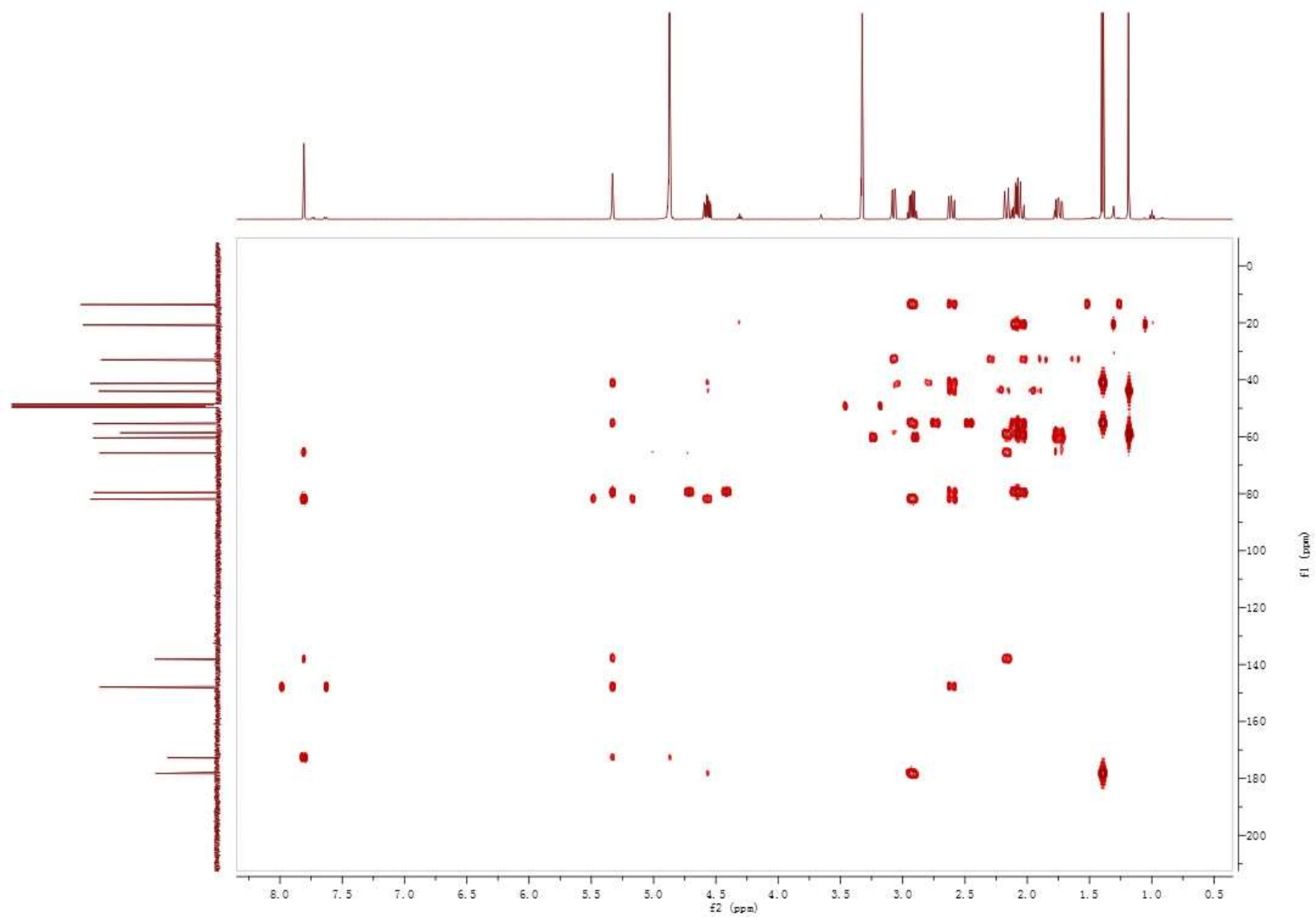
HSQC spectrum of compound 2



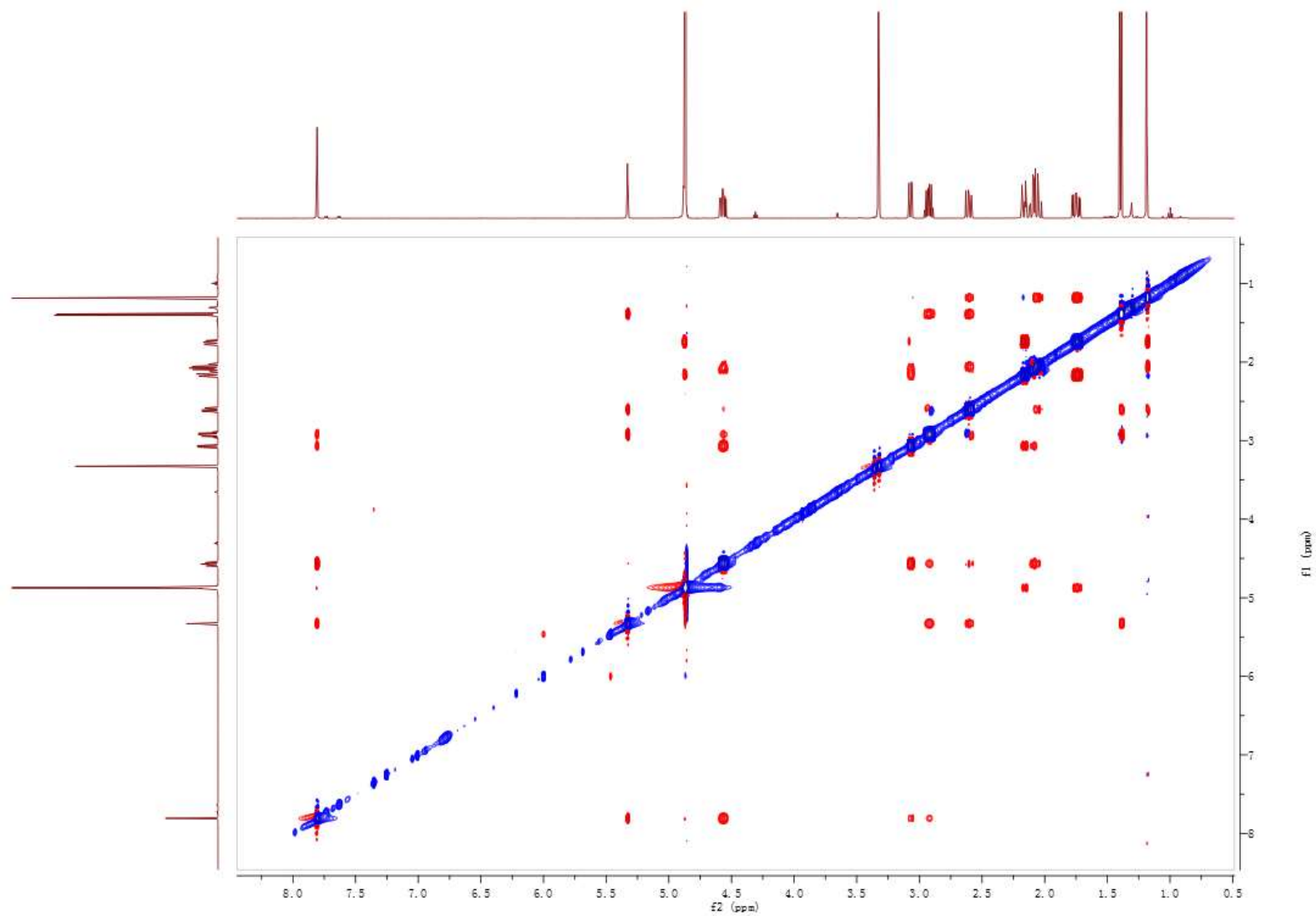
^1H - ^1H COSY spectrum of compound **2**



HMBC spectrum of compound **2**



NOESY spectrum of compound 2



HR-ESI-MS(+) of compound 3

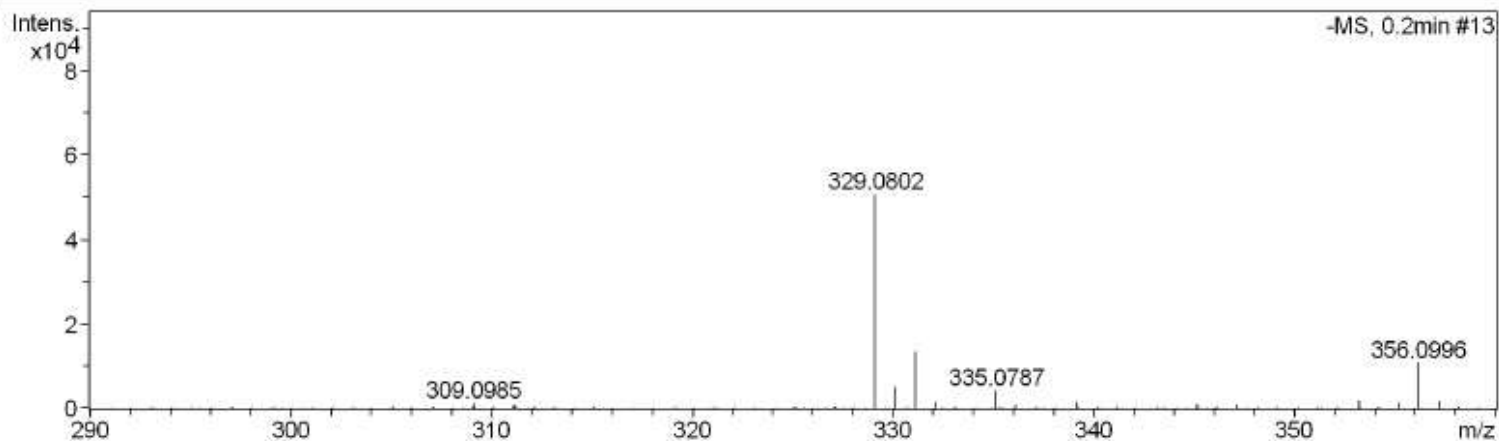
Mass Spectrum SmartFormula Report

Analysis Info

Analysis Name	D:\Data\MS\data\202101\donglimei_E8-5-3-3_neg_24_01_1342.d		
Method	LC_Direct Infusion_neg_100-1000mz.m	Operator	SCSIO
Sample Name	donglimei_E8-5-3-3_neg	Instrument / Ser#	maXis 29
Comment			

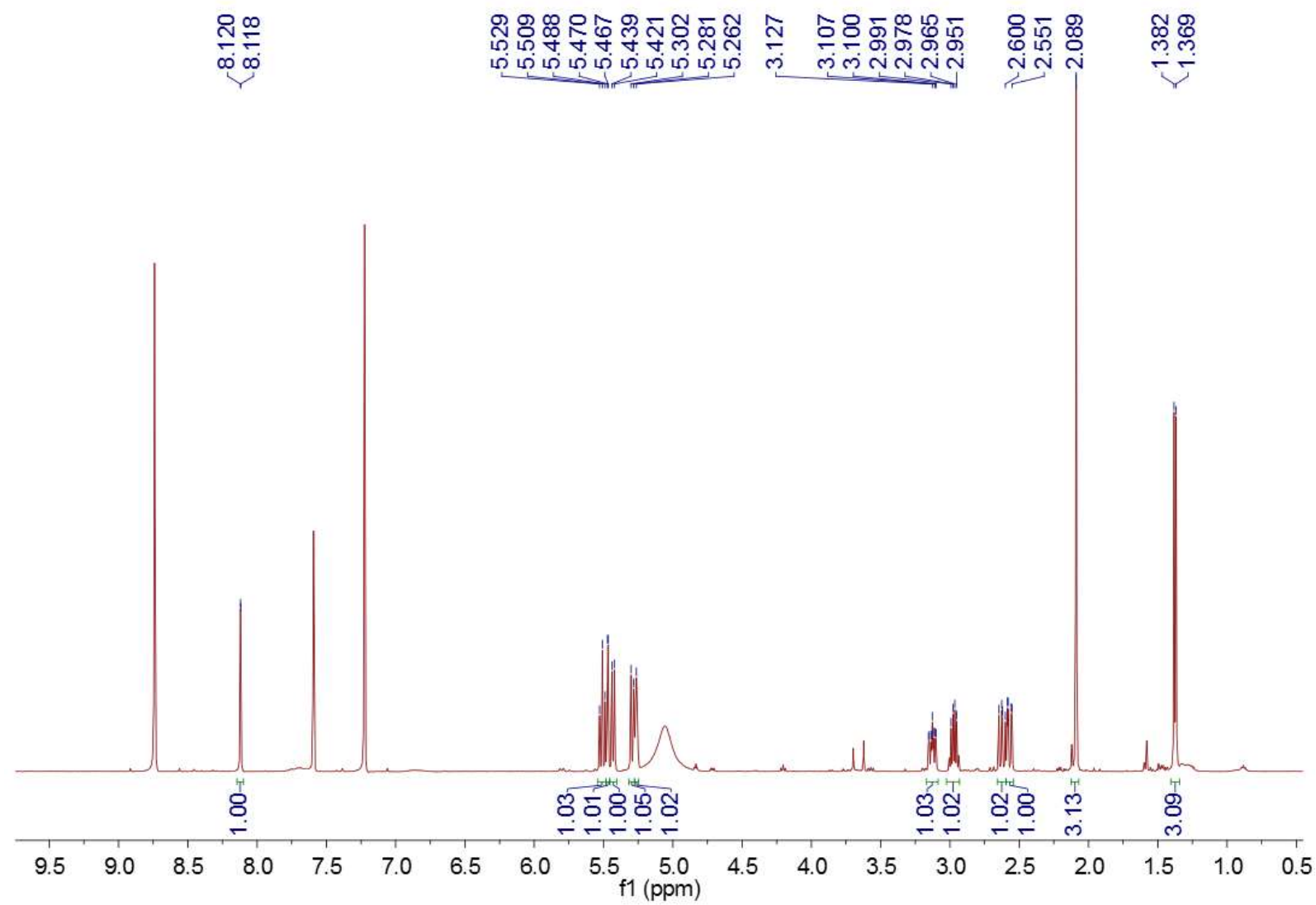
Acquisition Parameter

Source Type	ESI	Ion Polarity	Negative	Set Nebulizer	0.4 Bar
Focus	Active	Set Capillary	3800 V	Set Dry Heater	180 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	2000 m/z	Set Collision Cell RF	550.0 Vpp	Set Divert Valve	Waste

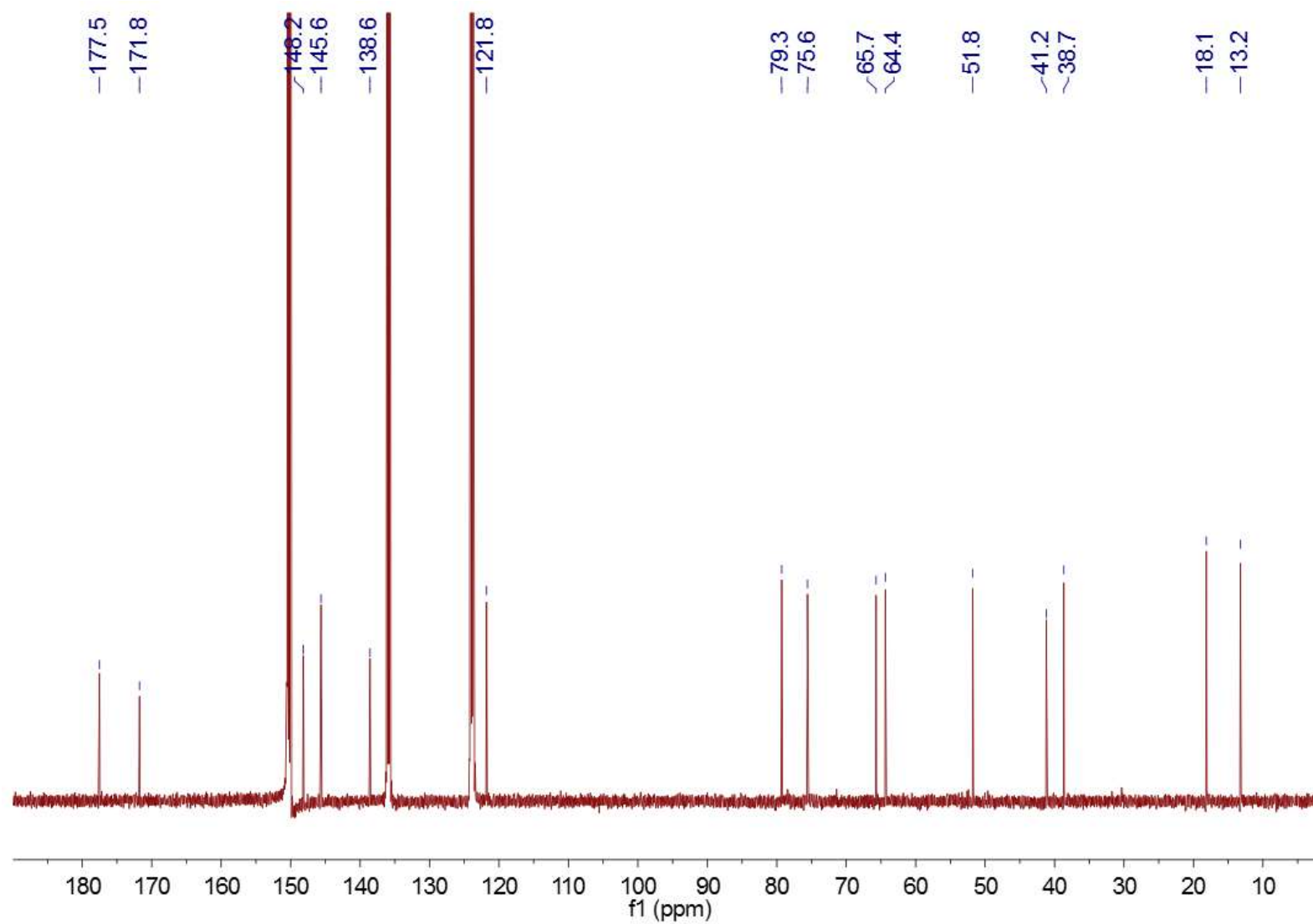


Meas. m/z	#	Formula	Score	m/z	err [ppm]	err [mDa]	mSigma	rdb	e ⁻ Conf	N-Rule
293.1036	1	C 15 H 17 O 6	100.00	293.1031	-1.8	-0.5	77.0	7.5	even	ok
329.0802	1	C 15 H 18 Cl O 6	100.00	329.0797	-1.5	-0.5	46.0	6.5	even	ok
623.1912	1	C 30 H 36 Cl O 12	100.00	623.1901	-1.9	-1.2	47.5	12.5	even	ok

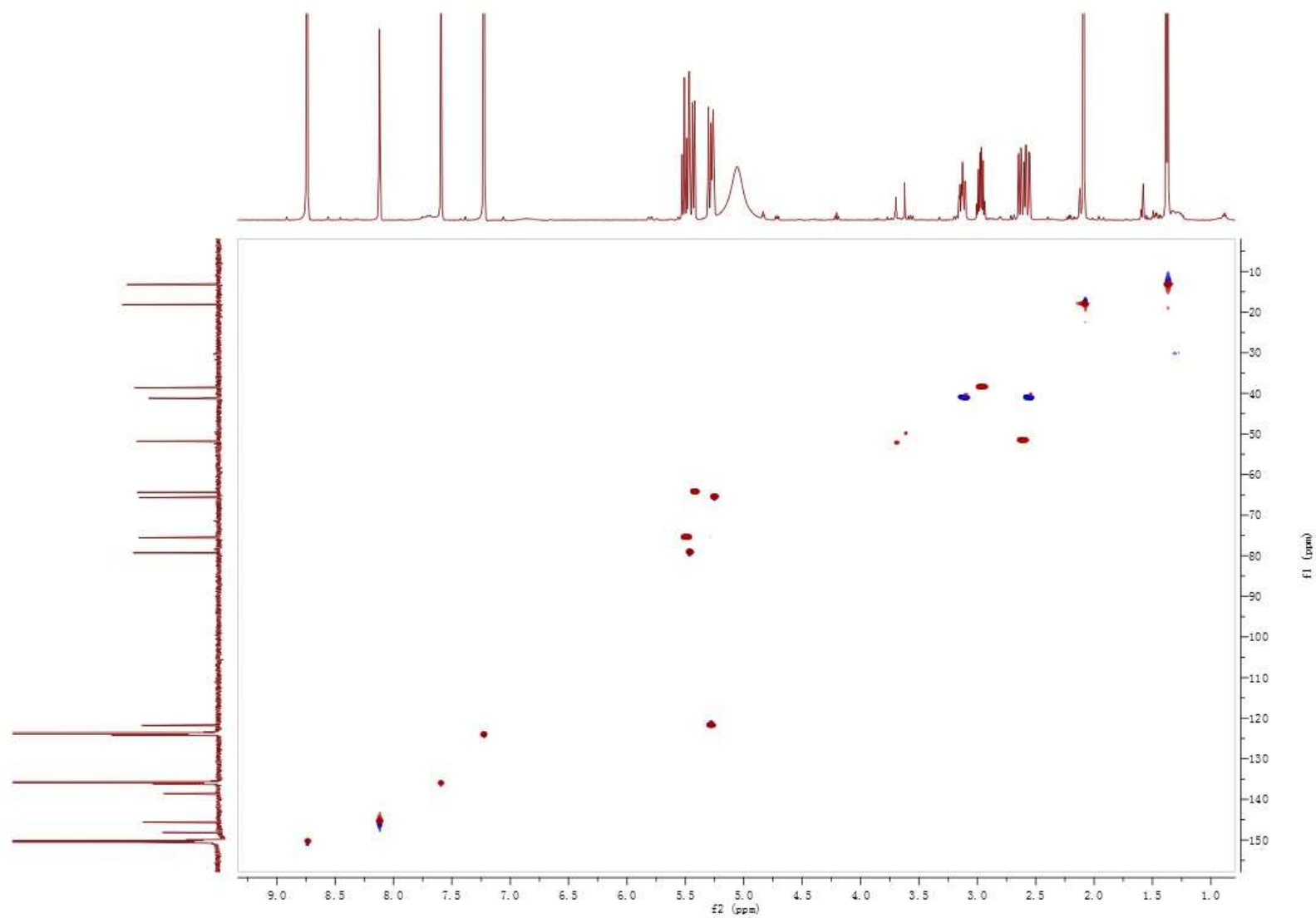
¹H-NMR spectrum of compound **3**



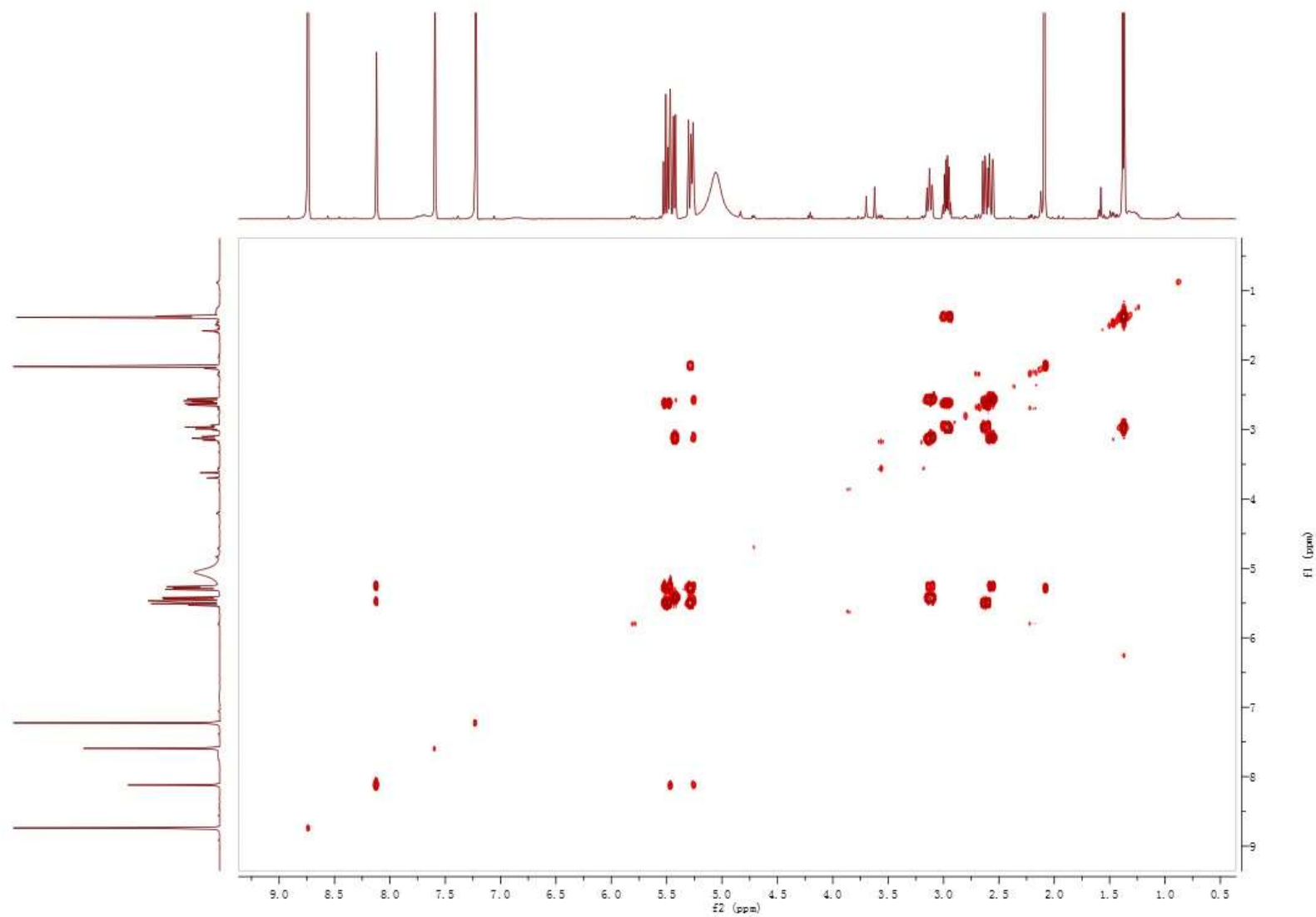
¹³C-NMR spectrum of compound **3**



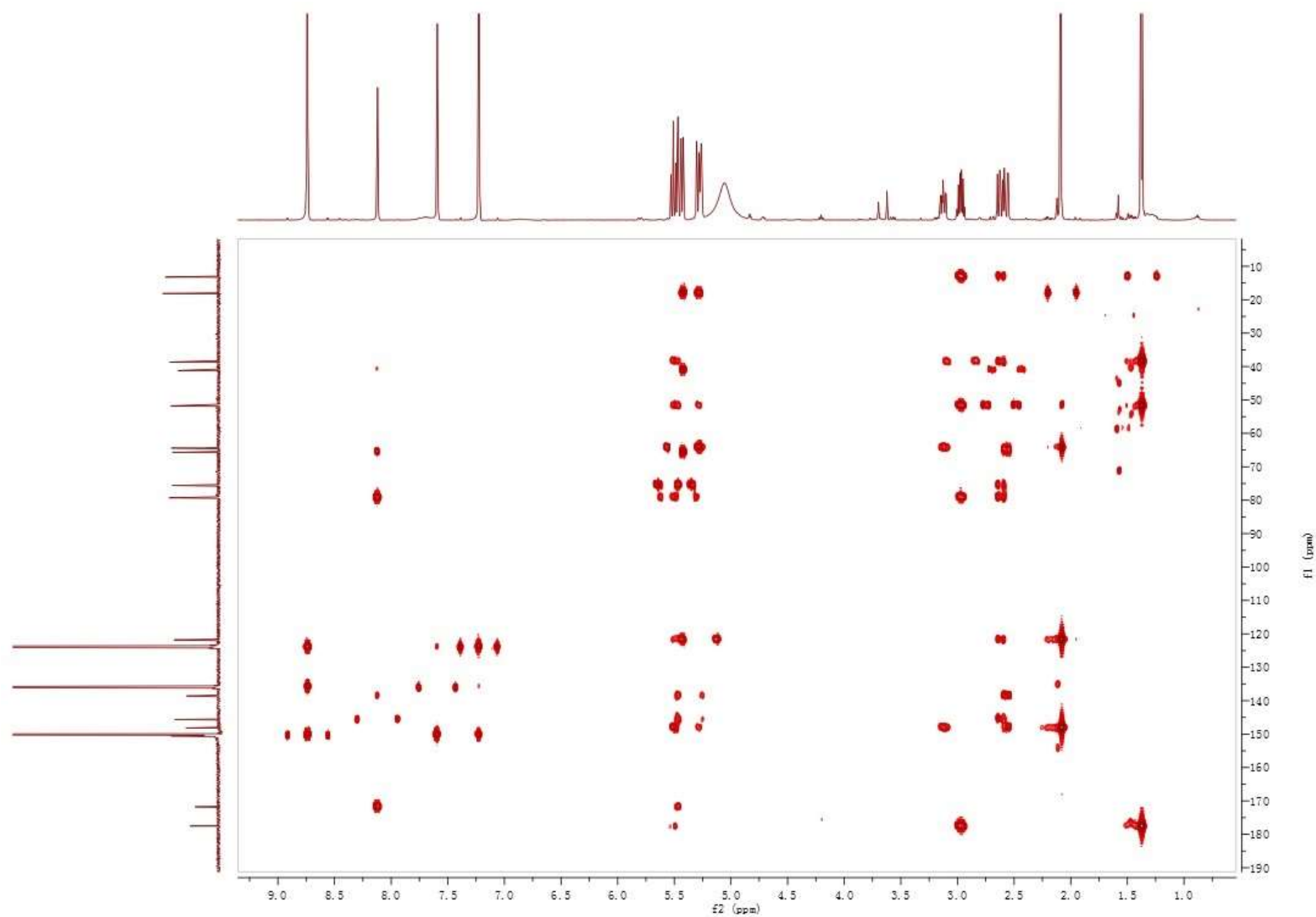
HSQC spectrum of compound 3



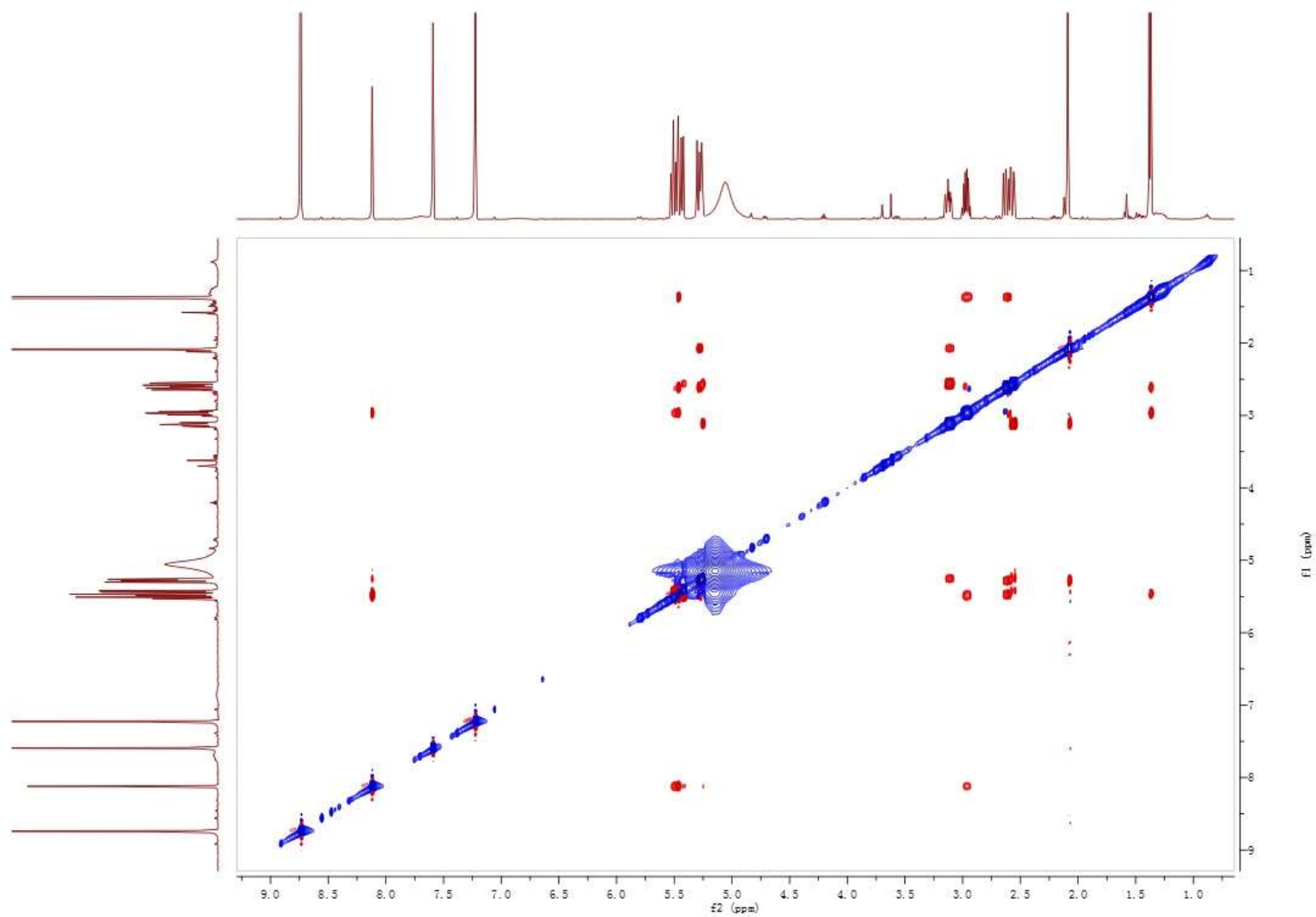
^1H - ^1H COSY spectrum of compound **3**



HMBC spectrum of compound 3



NOESY spectrum of compound 3



HR-ESI-MS(-) of compound 4

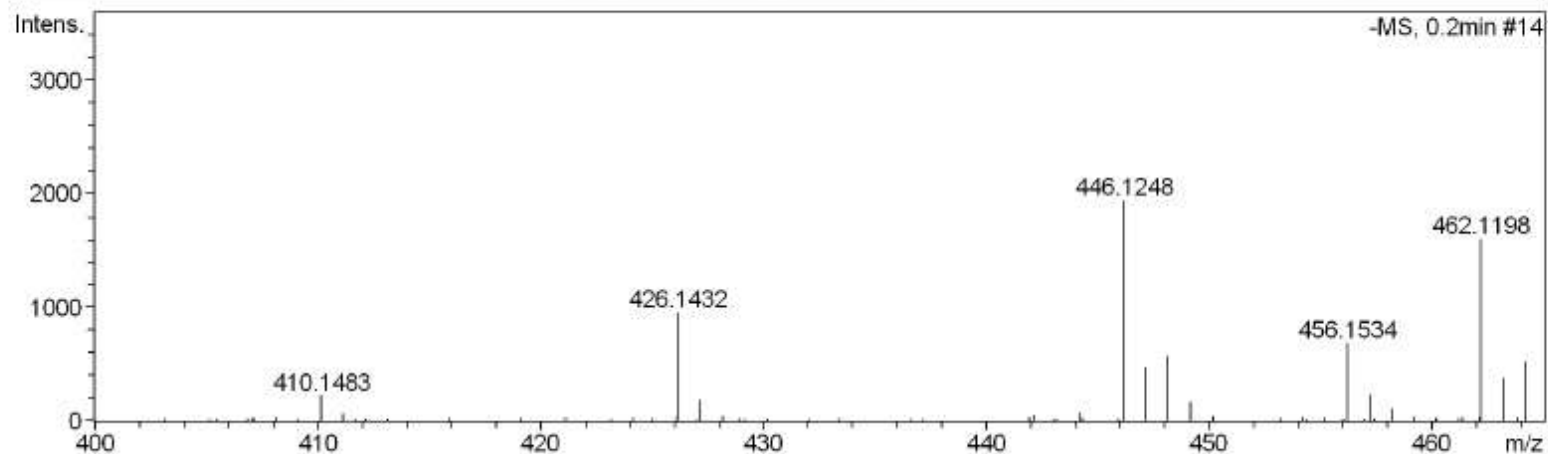
Mass Spectrum SmartFormula Report

Analysis Info

Analysis Name	D:\Data\MS\data\202101\donglimei_E9-4-3_neg_34_01_1352.d		
Method	LC_Direct Infusion_neg_100-1000mz.m	Operator	SCSIO
Sample Name	donglimei_E9-4-3_neg	Instrument / Ser#	maXis 29
Comment			

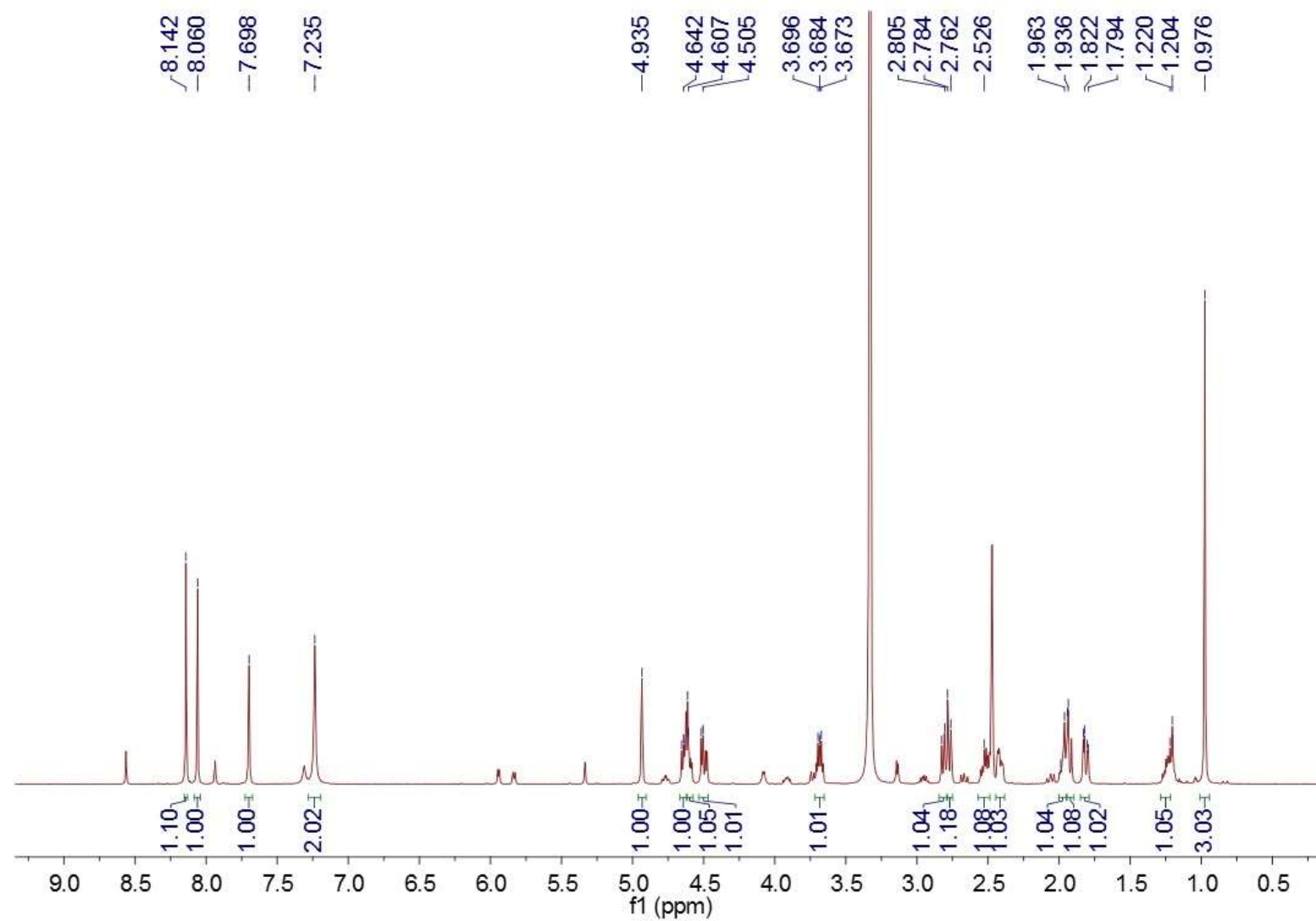
Acquisition Parameter

Source Type	ESI	Ion Polarity	Negative	Set Nebulizer	0.4 Bar
Focus	Active	Set Capillary	3800 V	Set Dry Heater	180 °C
Scan Begin	100 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	2000 m/z	Set Collision Cell RF	550.0 Vpp	Set Divert Valve	Waste

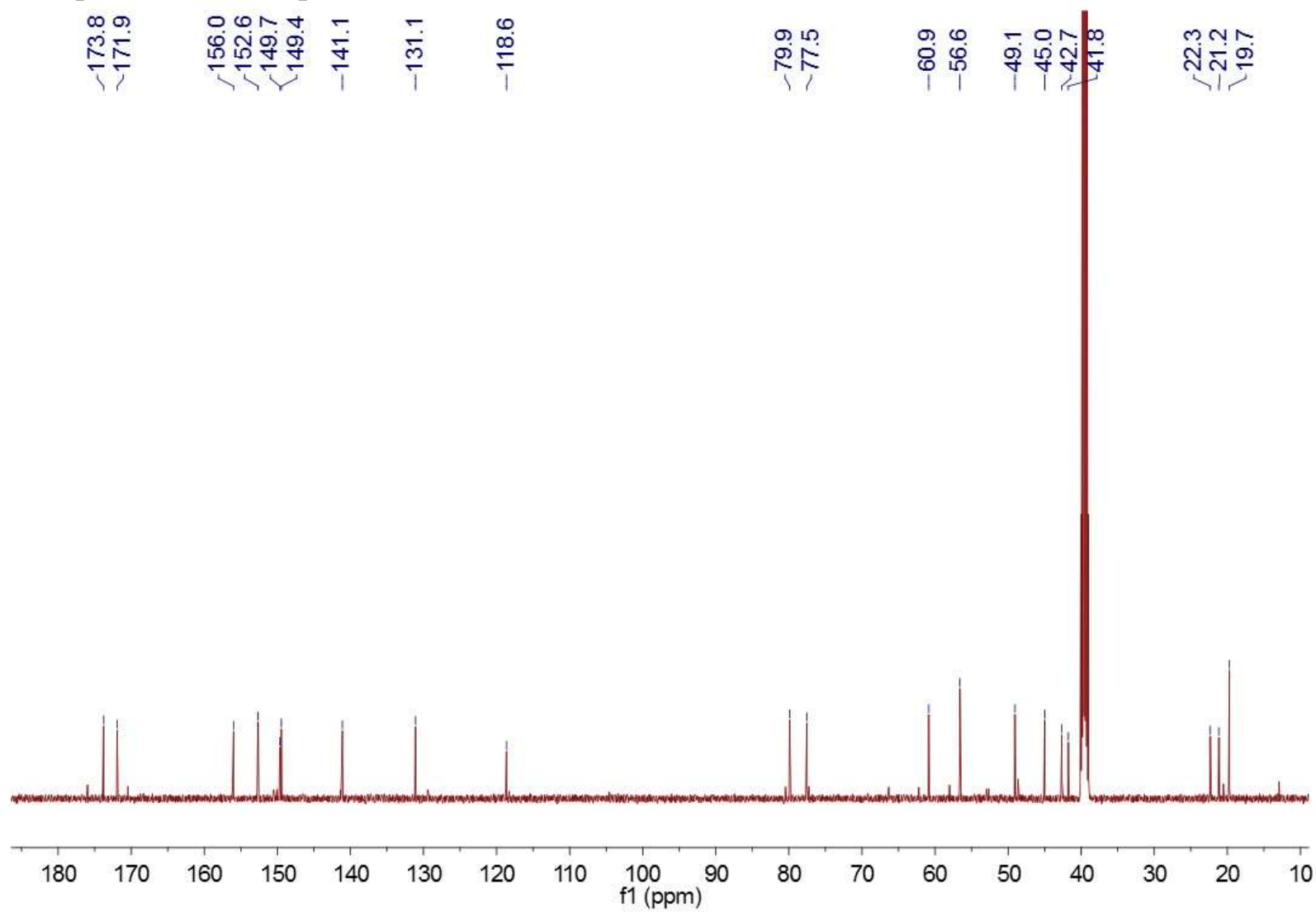


Meas. m/z	#	Formula	Score	m/z	err [ppm]	err [mDa]	mSigma	rdB	e ⁻ Conf	N-Rule
410.1483	1	C 21 H 16 N 9 O	100.00	410.1483	0.0	0.0	12.9	18.5	even	ok
446.1248	1	C 20 H 21 Cl N 5 O 5	100.00	446.1237	-2.6	-1.2	27.3	12.5	even	ok

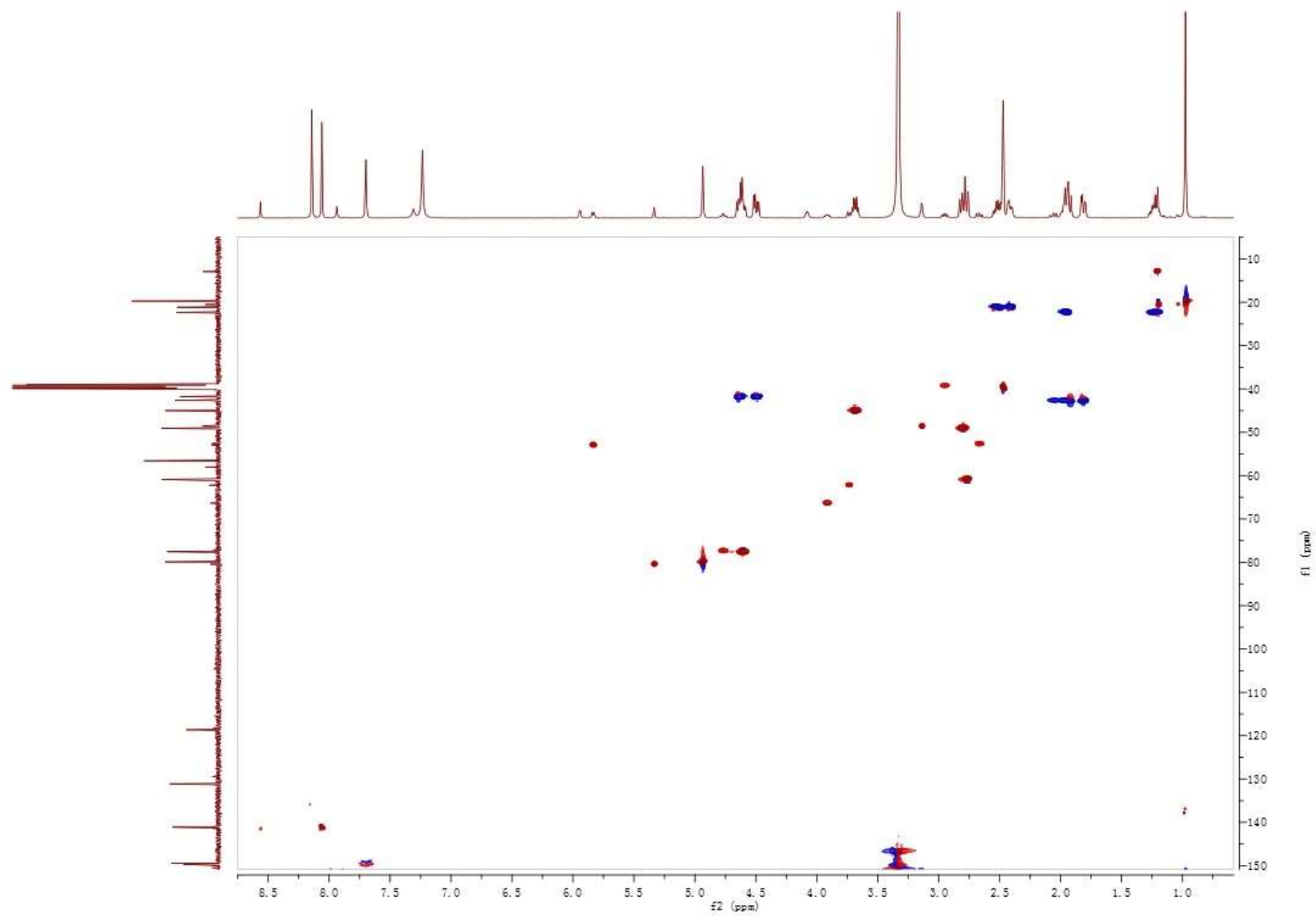
^1H -NMR spectrum of compound **4**



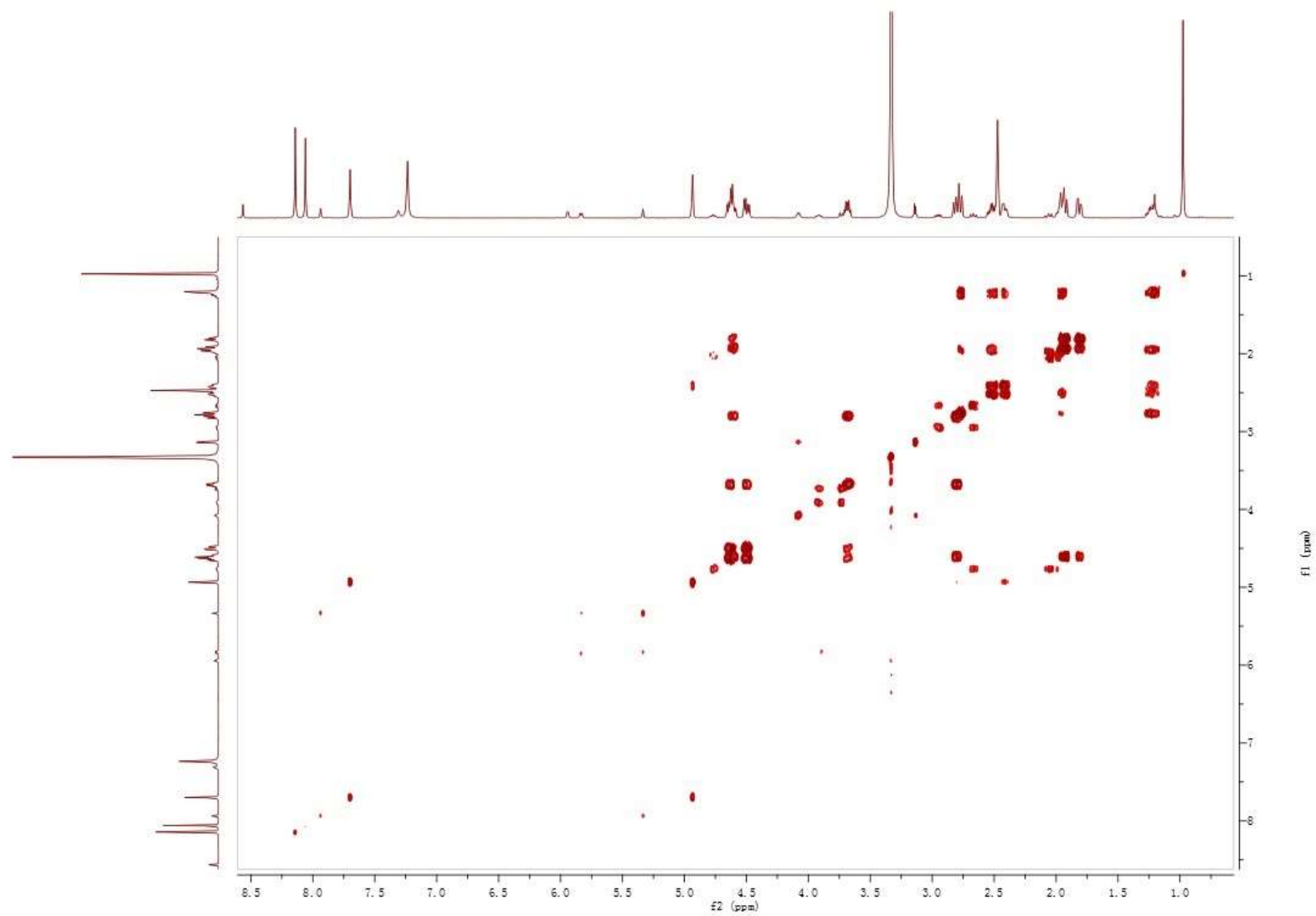
^{13}C -NMR spectrum of compound **4**



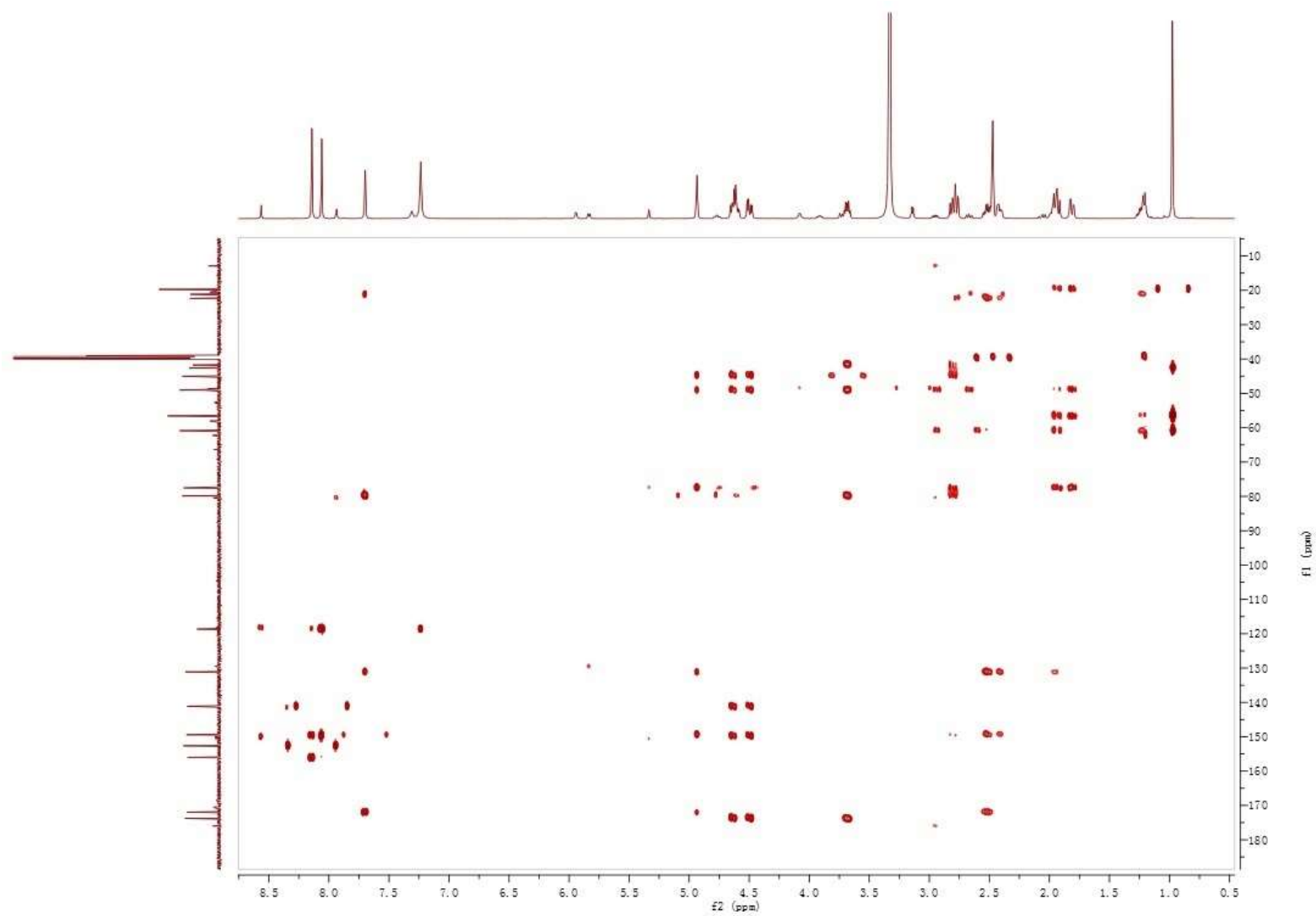
HSQC spectrum of compound 4



^1H - ^1H COSY spectrum of compound 4



HMBC spectrum of compound 4



NOESY spectrum of compound 4

