Supporting Information

Eudesmane and eremophilane sesquiterpenes from the fruits of *Alpinia oxyphylla* with protective effects against oxidative stress in adipose-derived mesenchymal stem cells

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Table of contents

Figure S1. ^{1}H NMR (400 MHz, $CDCl_3$) of compound **1**

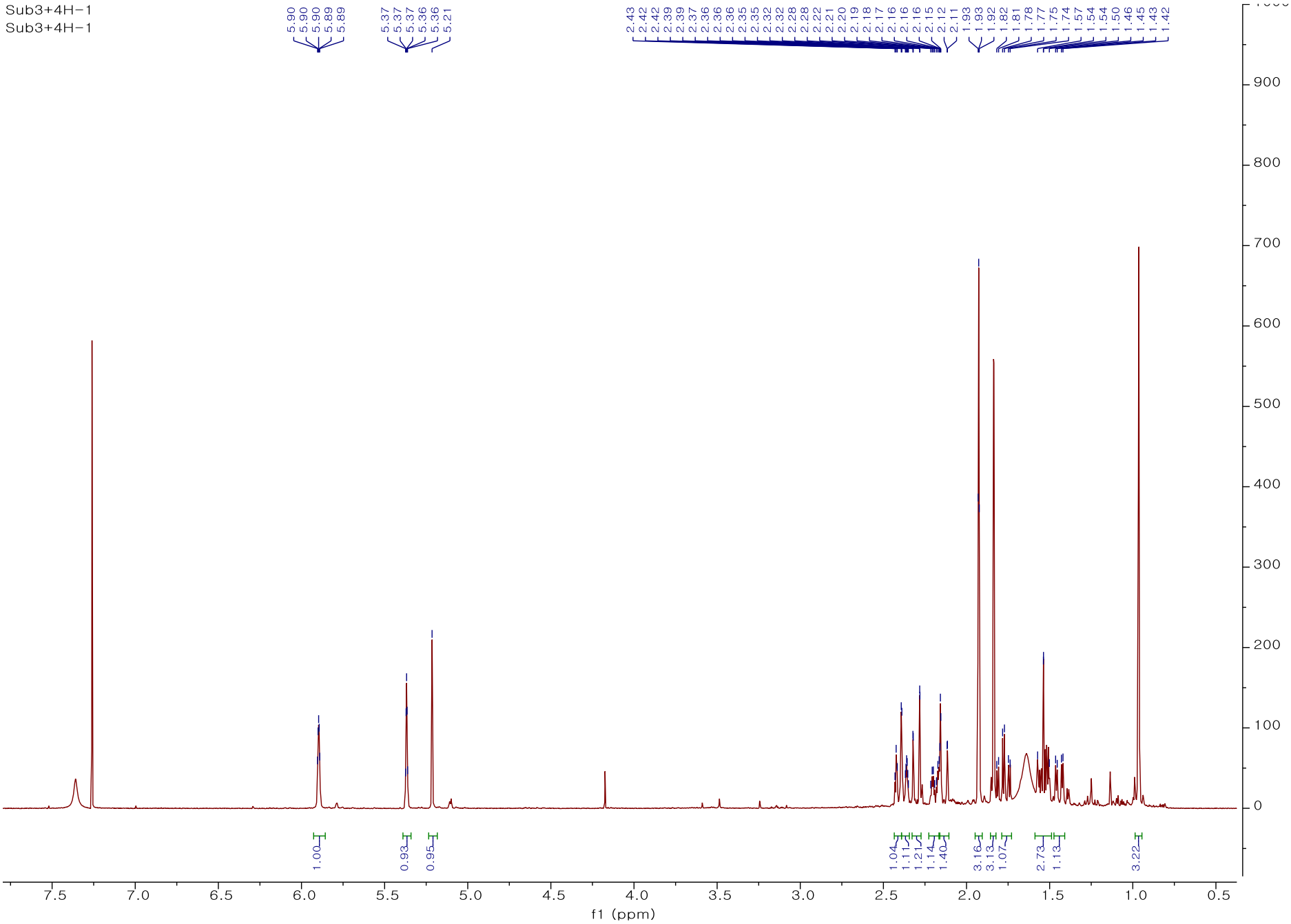


Figure S2. ^{13}C NMR (100 MHz, $CDCl_3$) of compound **1**

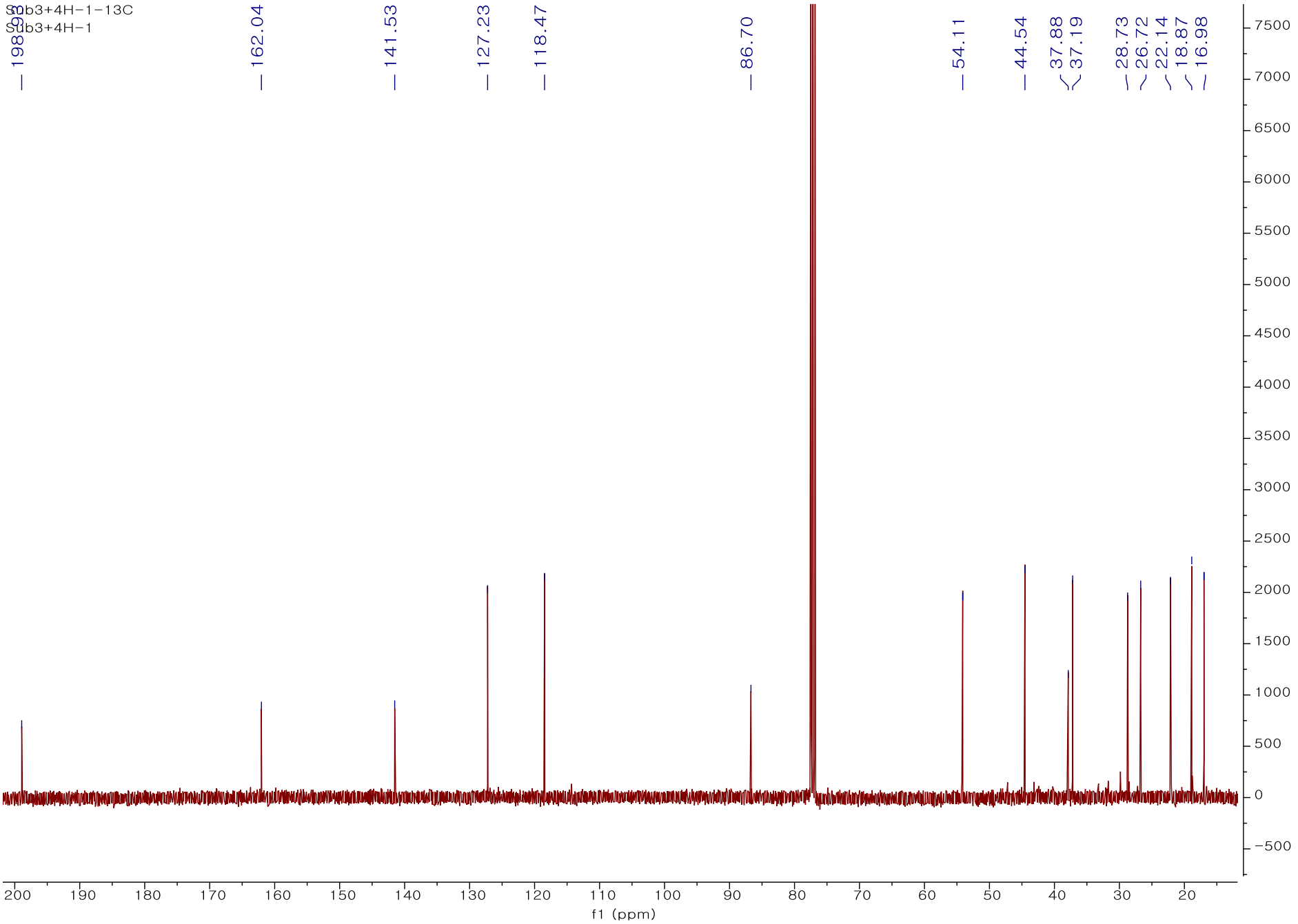


Figure S3. DEPT-135 NMR (100 MHz, $CDCl_3$) of compound **1**

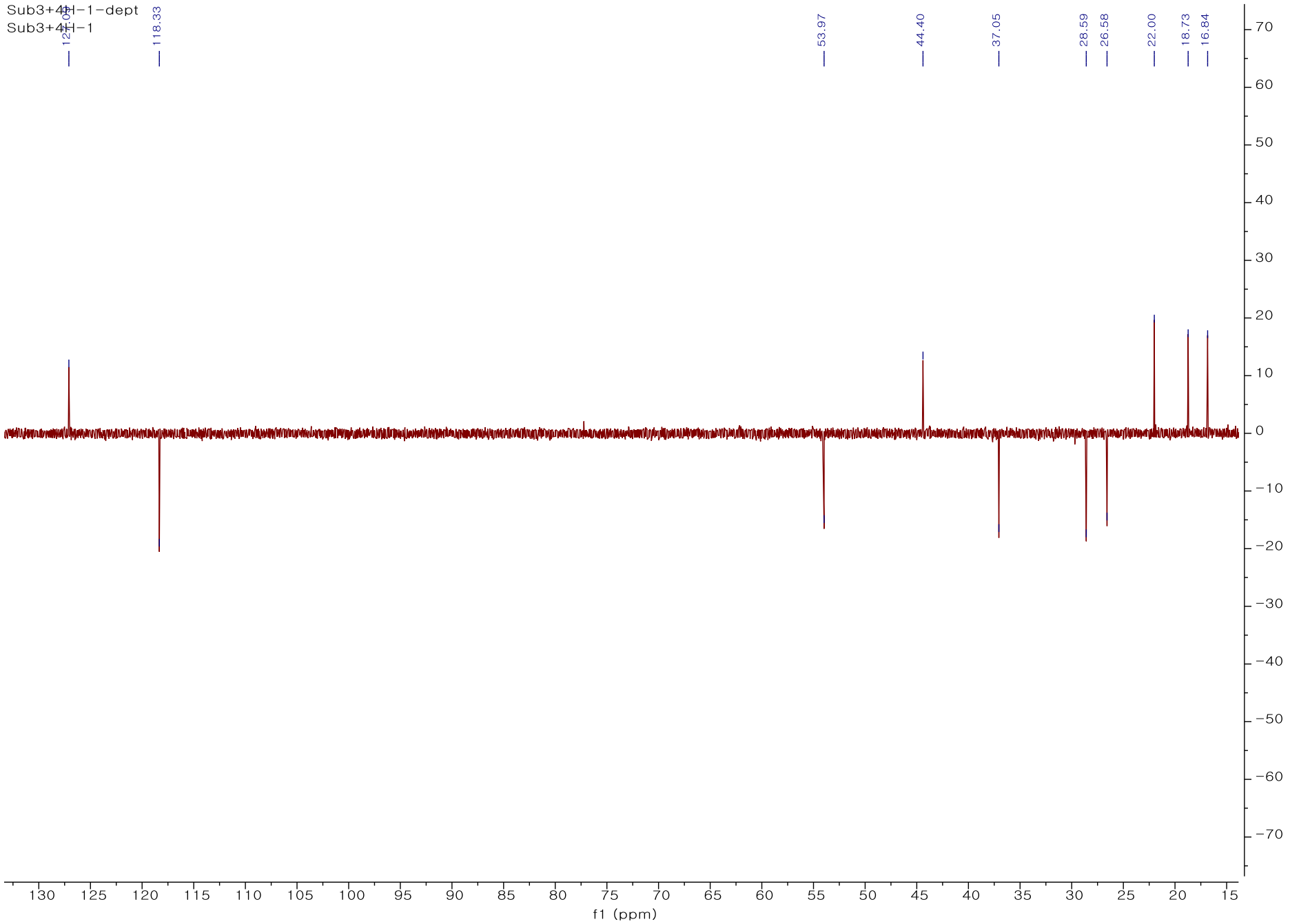


Figure S4. ^{1}H-^{1}H COSY NMR ($CDCl_3$) of compound **1**

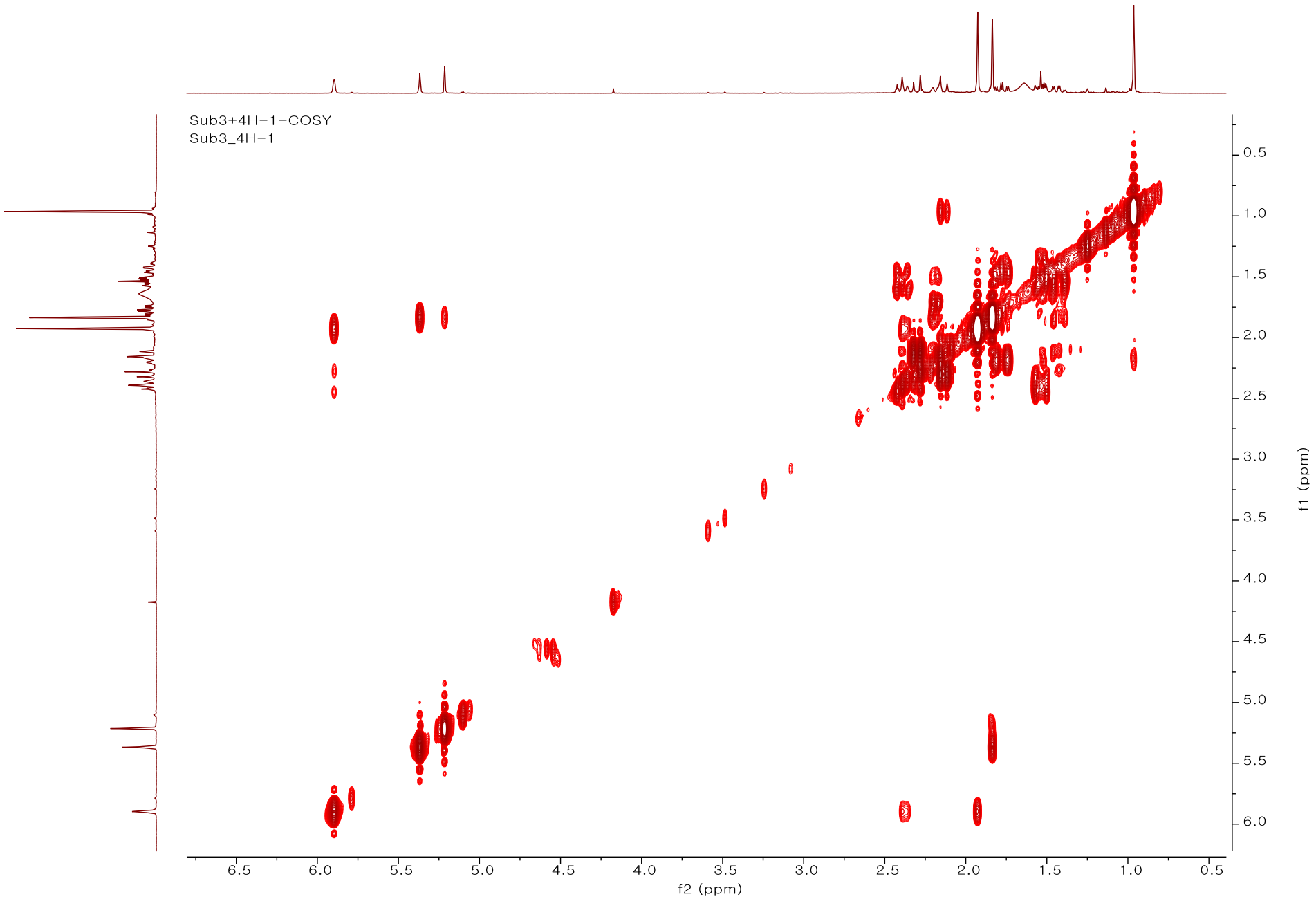


Figure S5. ^{1}H-^{13}C HSQC NMR ($CDCl_3$) of compound **1**

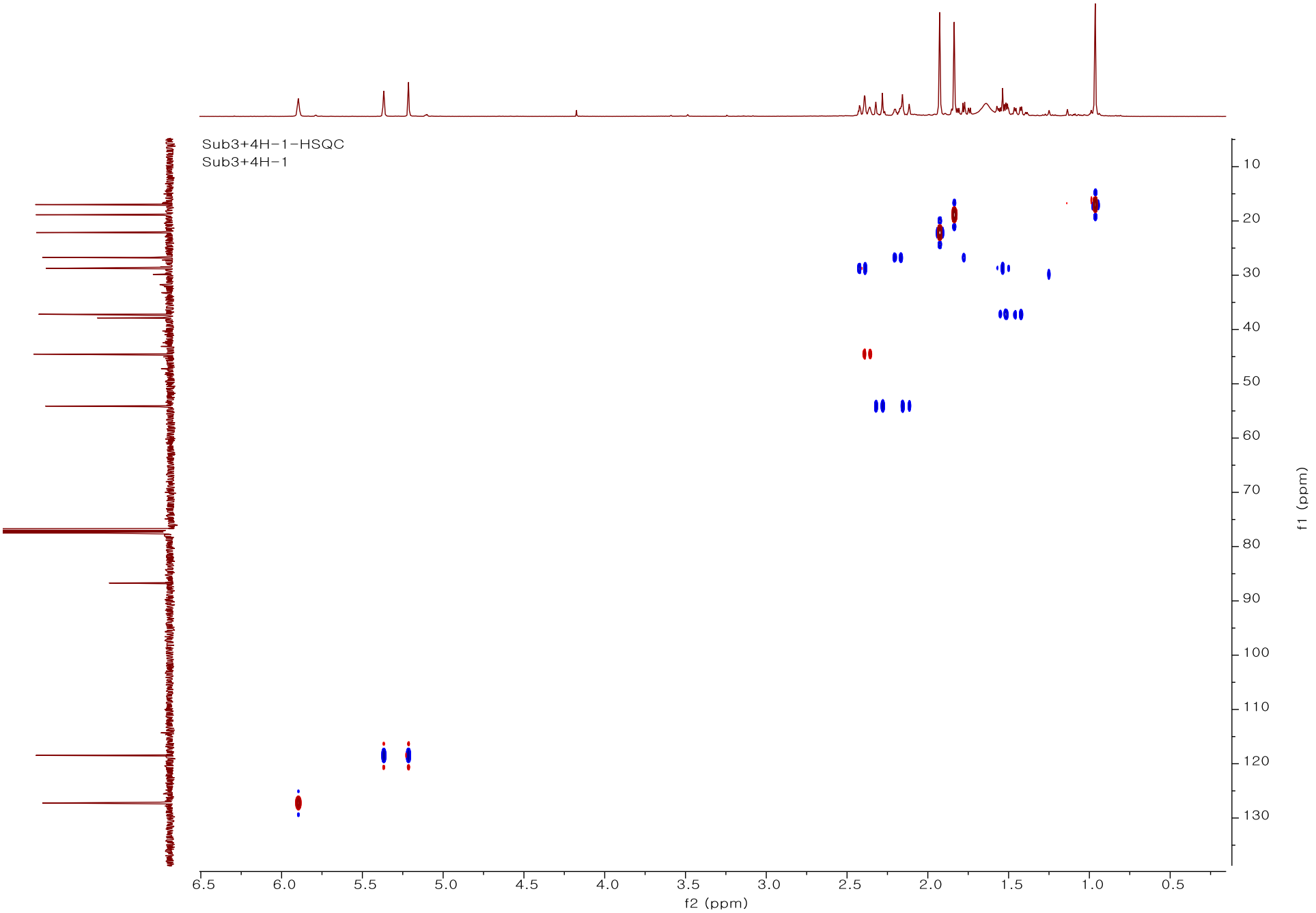


Figure S6. ^{1}H-^{13}C HMBC NMR ($CDCl_3$) of compound **1**

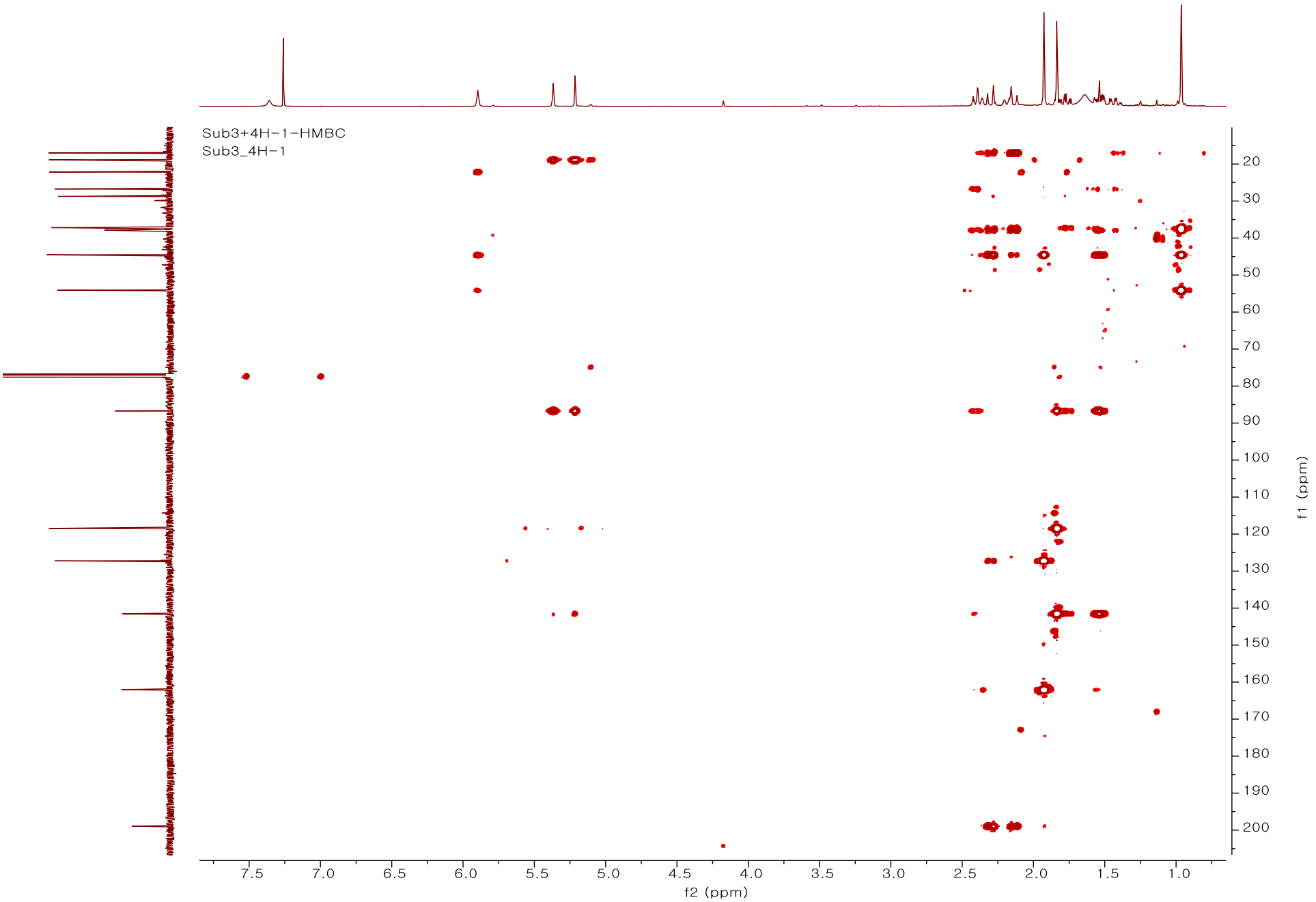


Figure S7. ^{1}H-^{1}H NOESY NMR ($CDCl_3$) of compound **1**

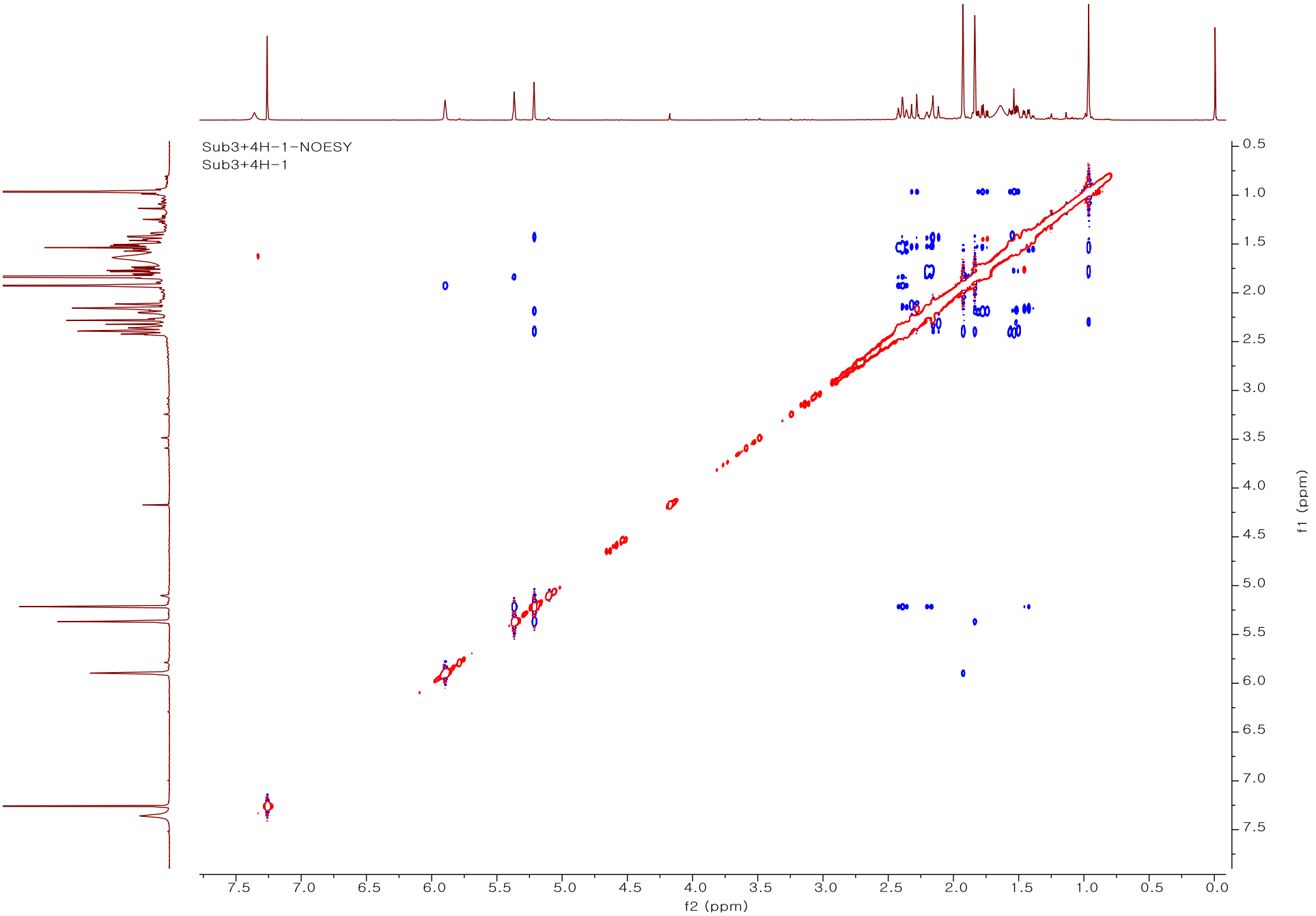
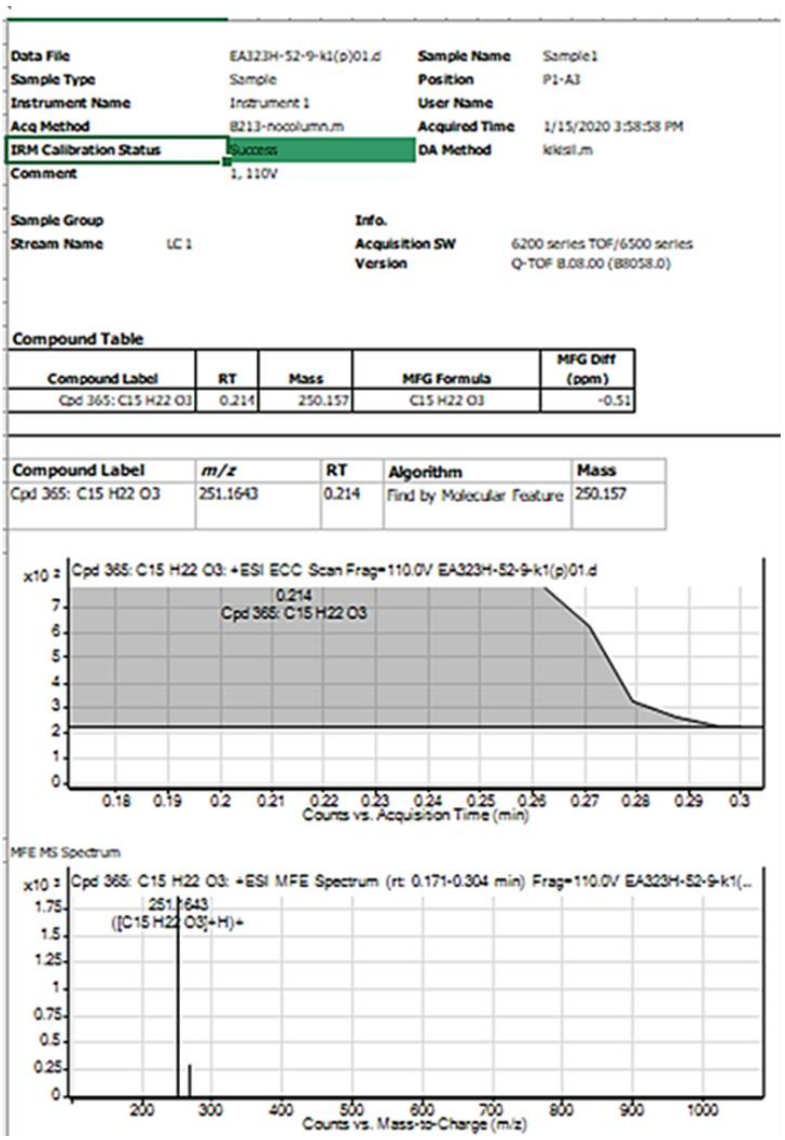


Figure S8. HR-ESIMS of compound **1**



Data File	EA323H-52-9-k1(p)01.d	Sample Name	Sample1
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Acq Method	B213-nocolumn.m	Acquired Time	1/15/2020 3:58:58 PM
IRM Calibration Status	Success	DA Method	kiksil.m
Comment	1, 110V		

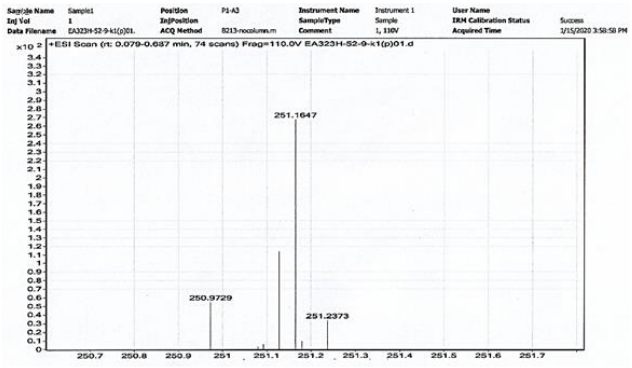
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW Version	6200 series TOF/6500 series Q-TOF B.08.00 (B8058.0)

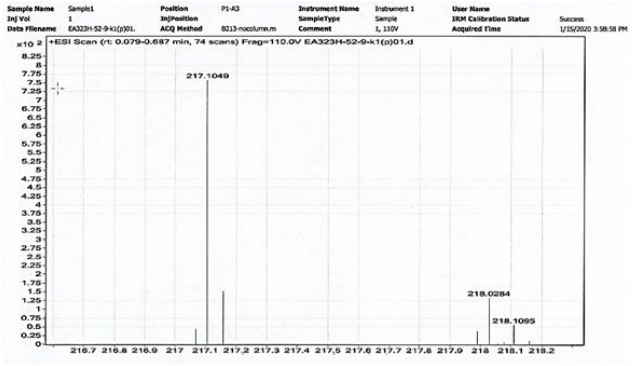
Compound Table

Compound Label	RT	Mass	MFG Formula	MFG Diff (ppm)
Cpd 365: C15 H22 O3	0.214	250.157	C15 H22 O3	-0.51

Compound Label	*m/z*	RT	Algorithm	Mass
Cpd 365: C15 H22 O3	251.1643	0.214	Find by Molecular Feature	250.157

MFE MS Spectrum





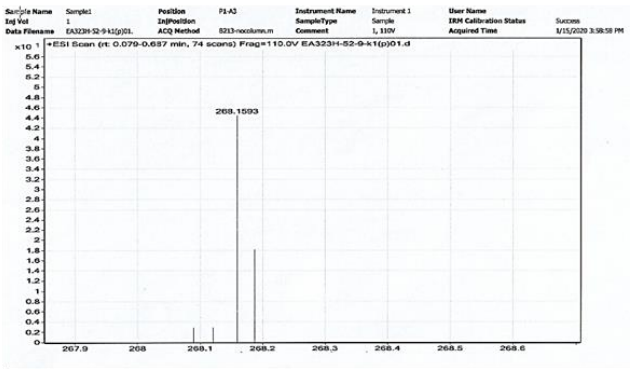


Figure S9. ^{1}H NMR (400 MHz, $CDCl_3$) of compound **2**

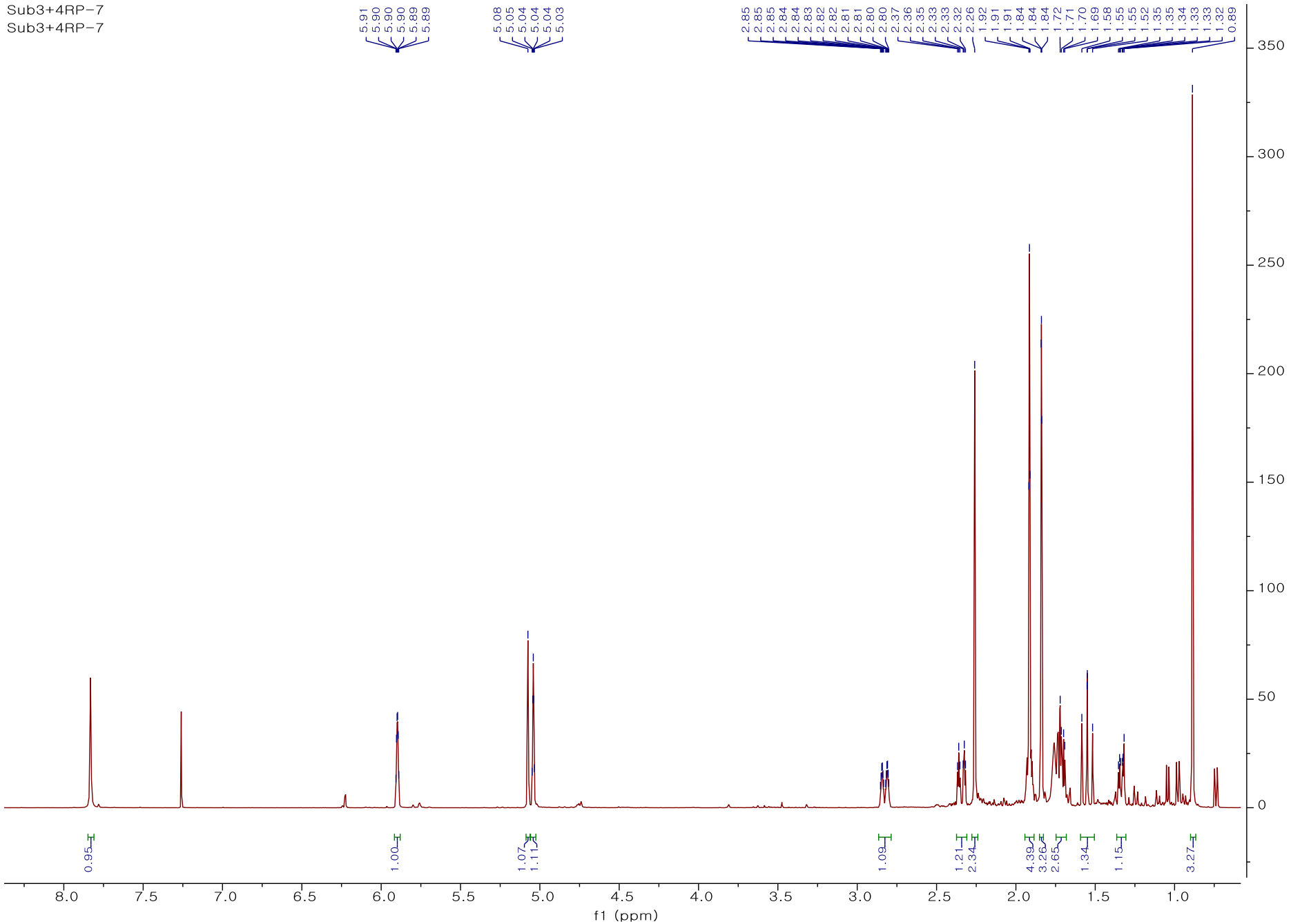


Figure S10. ^{13}C NMR (150 MHz, $CDCl_3$) of compound **2**

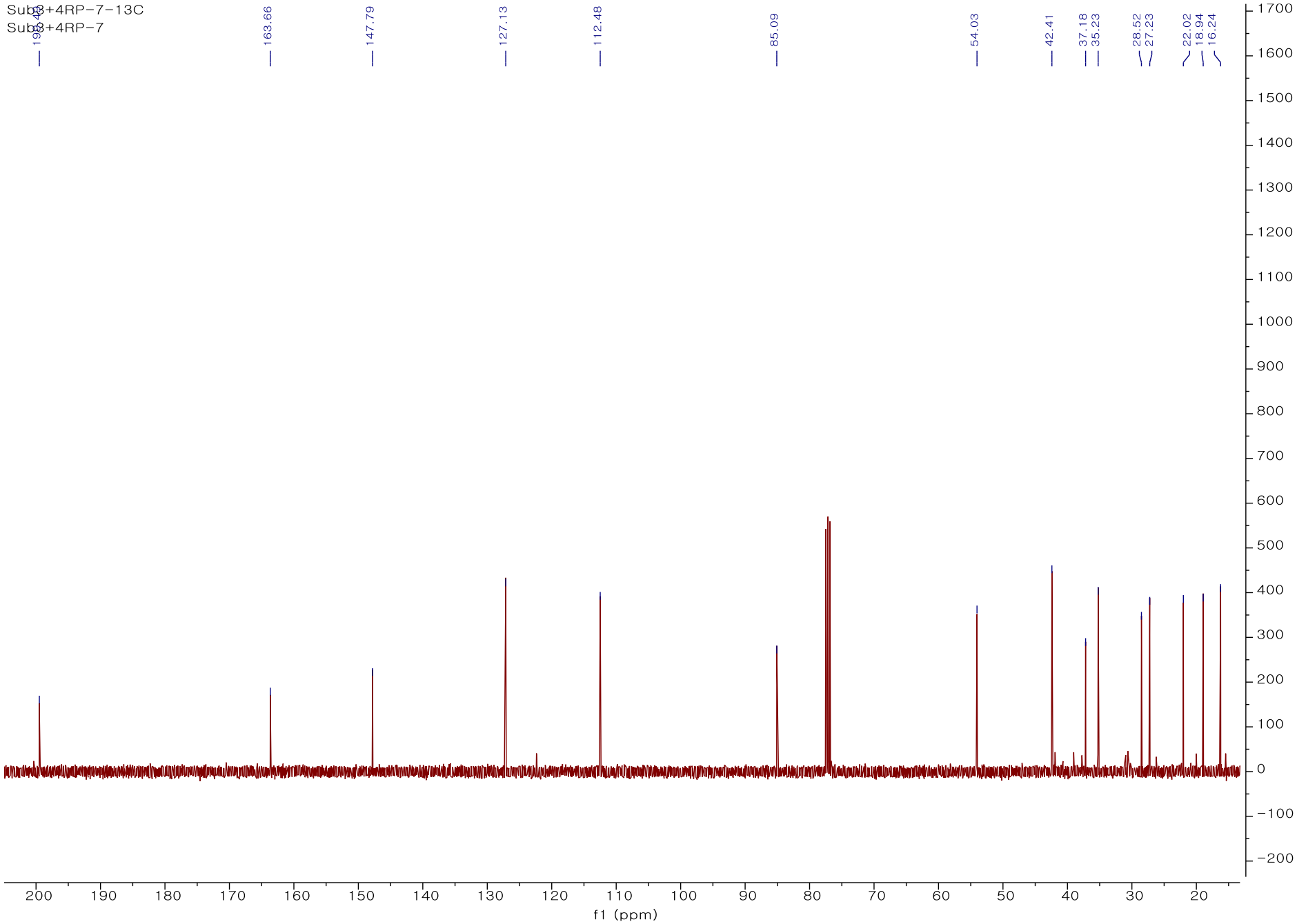


Figure S11. DEPT-135 NMR (150 MHz, $CDCl_3$) of compound **2**

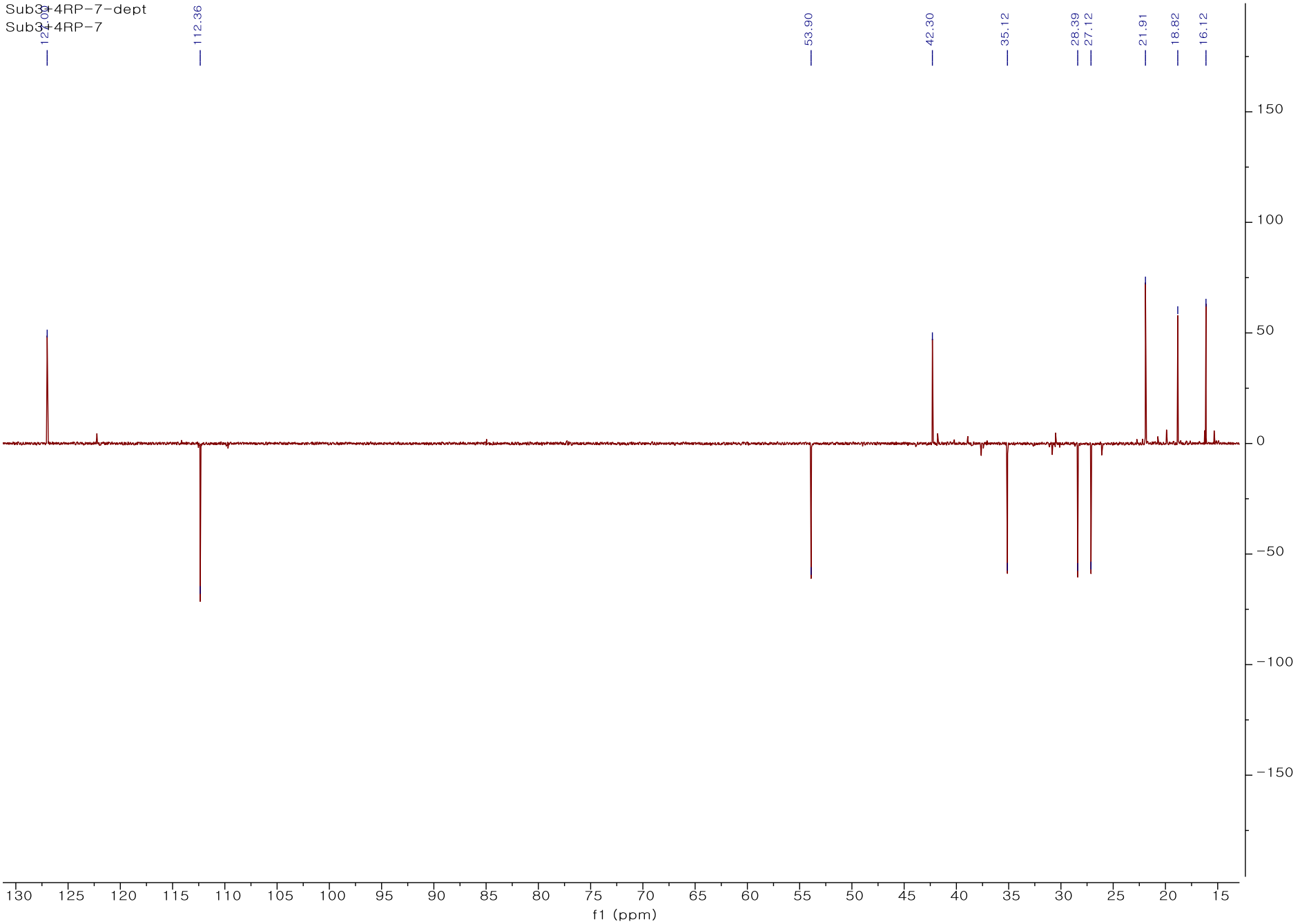


Figure S12. ^{1}H-^{1}H COSY NMR ($CDCl_3$) of compound **2**

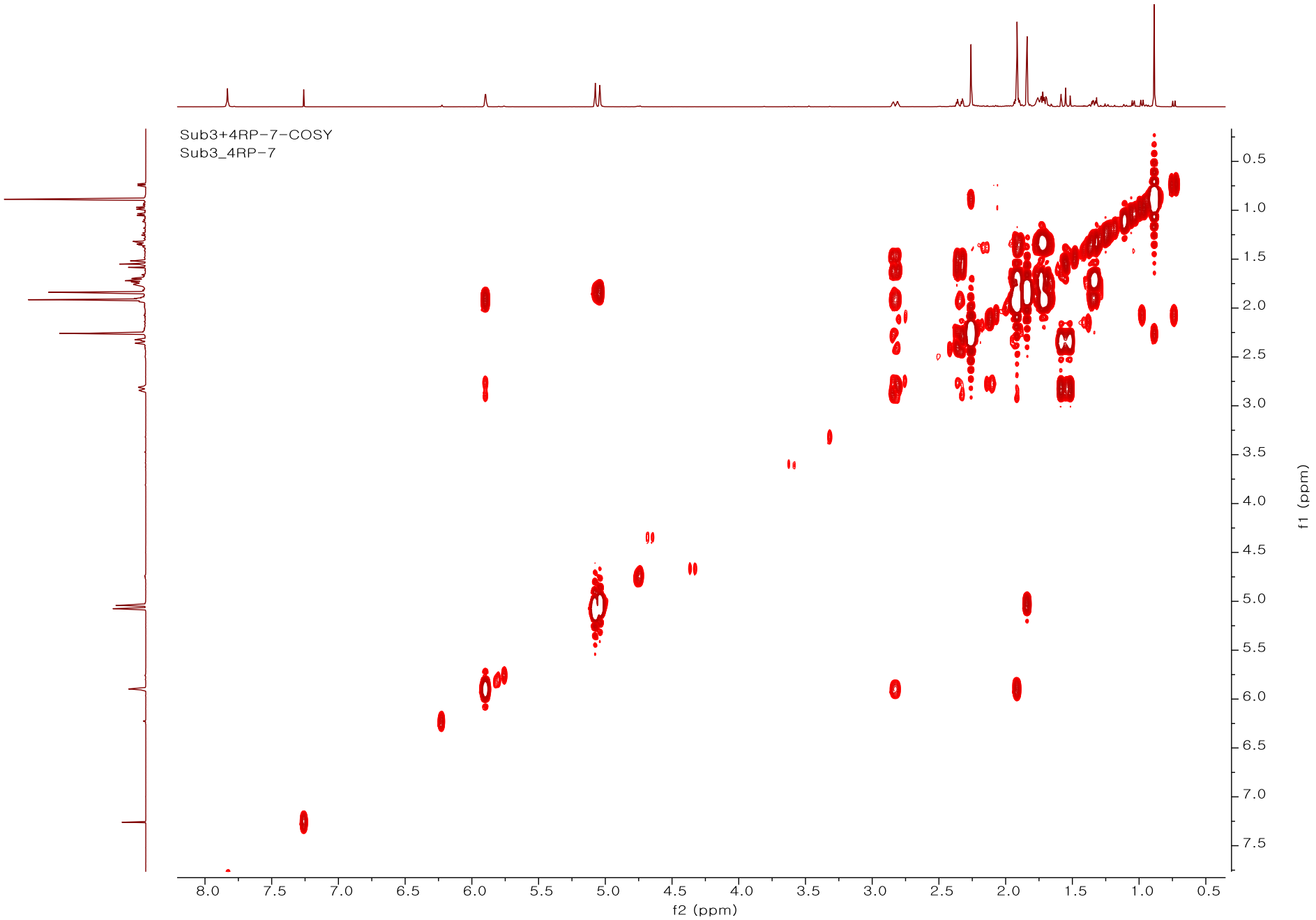


Figure S13. ^{1}H-^{13}C HSQC NMR ($CDCl_3$) of compound **2**

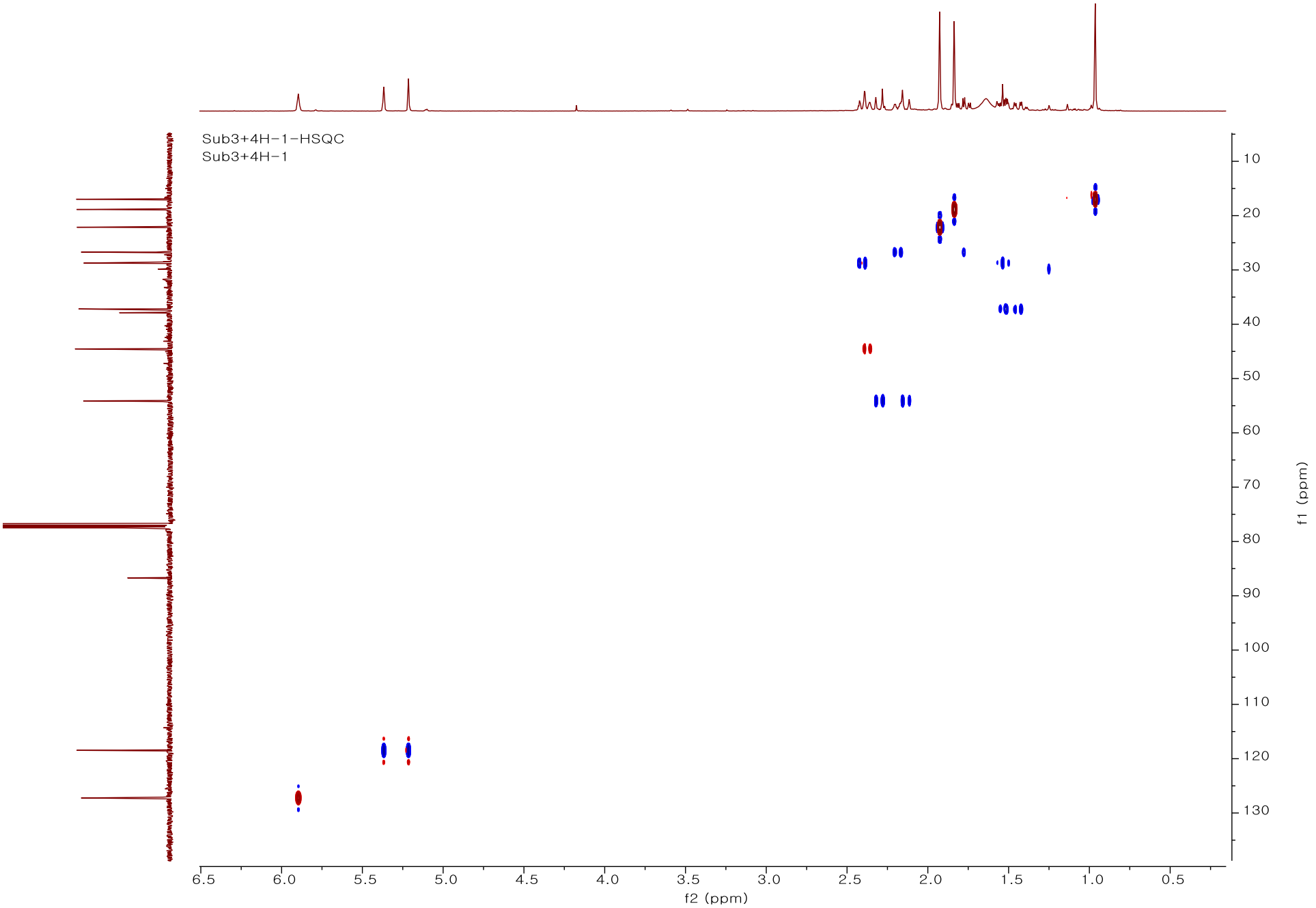


Figure S14. ^{1}H-^{13}C HMBC NMR ($CDCl_3$) of compound **2**

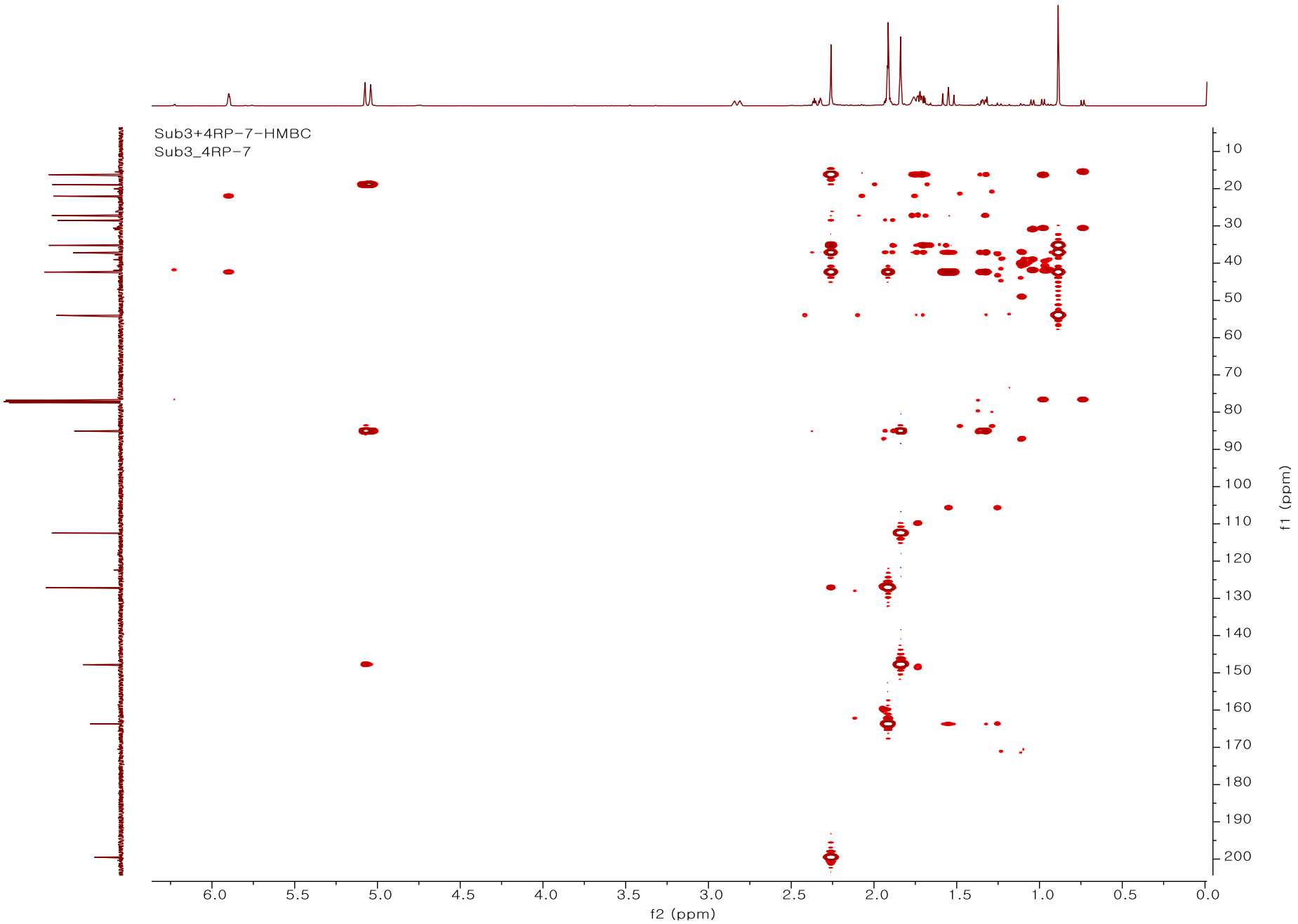


Figure S15. ^{1}H-^{1}H NOESY NMR ($CDCl_3$) of compound **2**

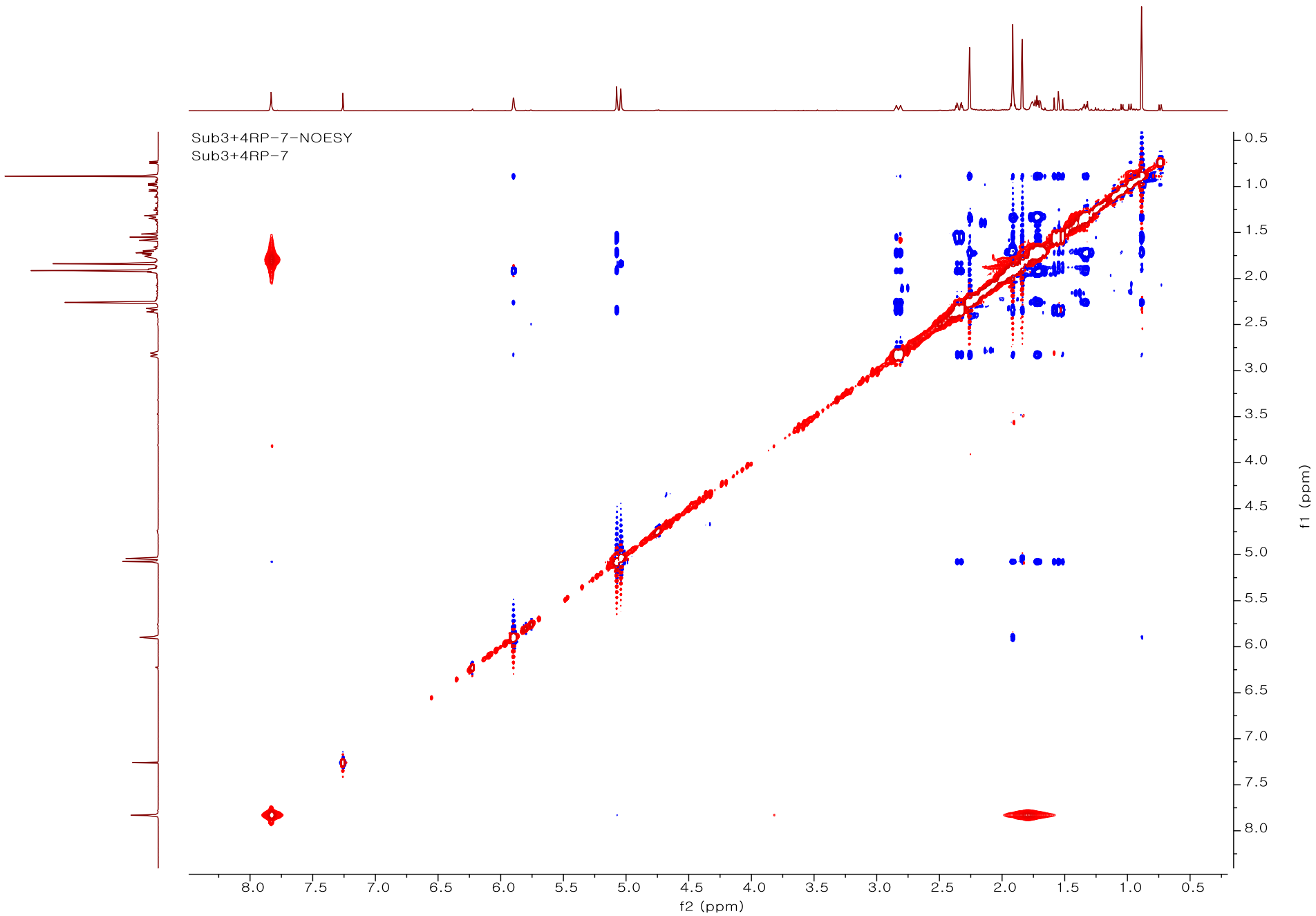
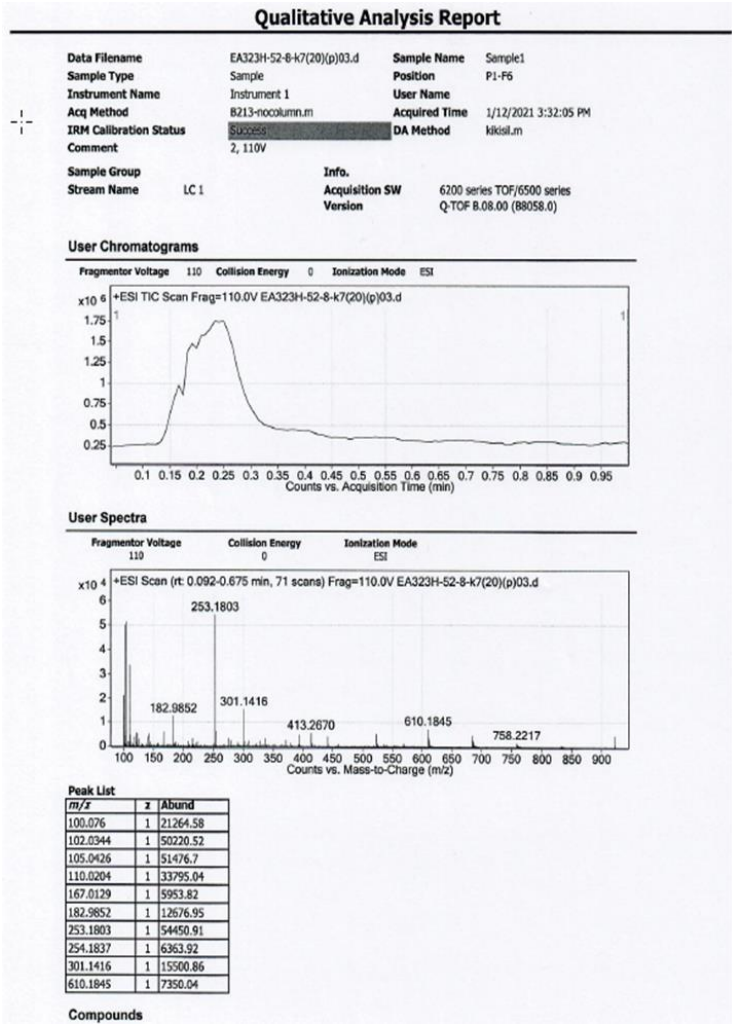


Figure S16. HR-ESIMS of compound **2**



Qualitative Analysis Report

Data Filename	EA323H-52-8-k7(20)(p)03.d	Sample Name	Sample1
Sample Type	Sample	Position	P1-F6
Instrument Name	Instrument 1	User Name	
Acq Method	B213-nocolumn.m	Acquired Time	1/12/2021 3:32:05 PM
IRM Calibration Status	Success	DA Method	klkisil.m
Comment	2, 110V		
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF B.08.00 (B8058.0)

User Chromatograms

Fragmentor Voltage 110 Collision Energy 0 Ionization Mode ESI

+ESI TIC Scan Frag=110.0V EA323H-52-8-k7(20)(p)03.d

Counts vs. Acquisition Time (min)

User Spectra

Fragmentor Voltage 110 Collision Energy 0 Ionization Mode ESI

+ESI Scan (rt: 0.092-0.675 min, 71 scans) Frag=110.0V EA323H-52-8-k7(20)(p)03.d

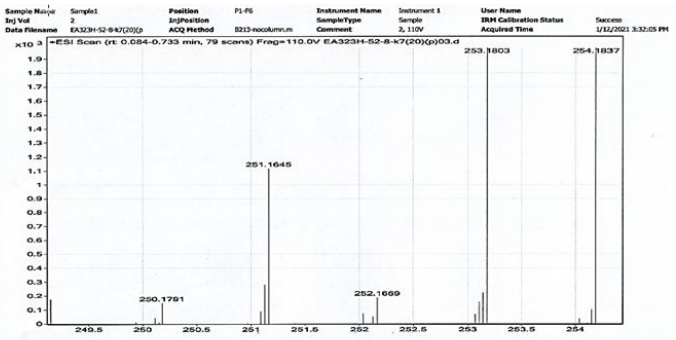
253.1803, 182.9852, 301.1416, 413.2670, 610.1845, 758.2217

Counts vs. Mass-to-Charge (m/z)

Peak List

m/z	z	Abund
100.076	1	21264.58
102.0344	1	50220.52
105.0426	1	51476.7
110.0204	1	33795.04
167.0129	1	5953.82
182.9852	1	12676.95
253.1803	1	54450.91
254.1837	1	6363.92
301.1416	1	15500.86
610.1845	1	7350.04

Compounds



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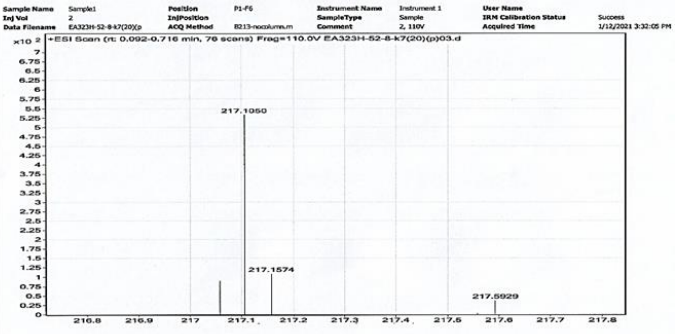
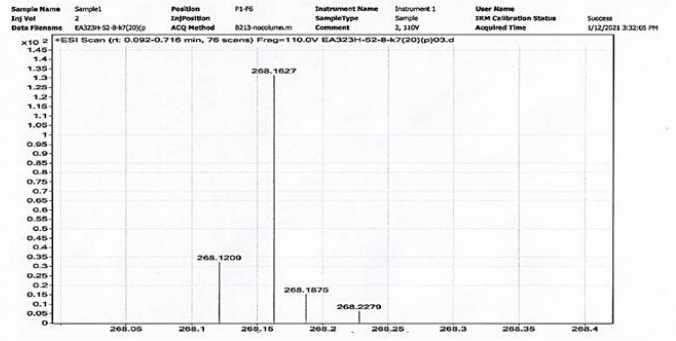
253.1803, 254.1837, 251.1645, 250.1791, 252.1669



+ESI Scan (rt: 0.092-0.716 min, 76 scans) Frag=110.0V EA323H-52-8-k7(20)(p)03.d

217.1050, 217.1574, 217.5929



+ESI Scan (rt: 0.092-0.716 min, 76 scans) Frag=110.0V EA323H-52-8-k7(20)(p)03.d

268.1627, 268.1209, 268.1875, 268.2279

Figure S17. ^{1}H NMR (400 MHz, $CDCl_3$) of compound **3**

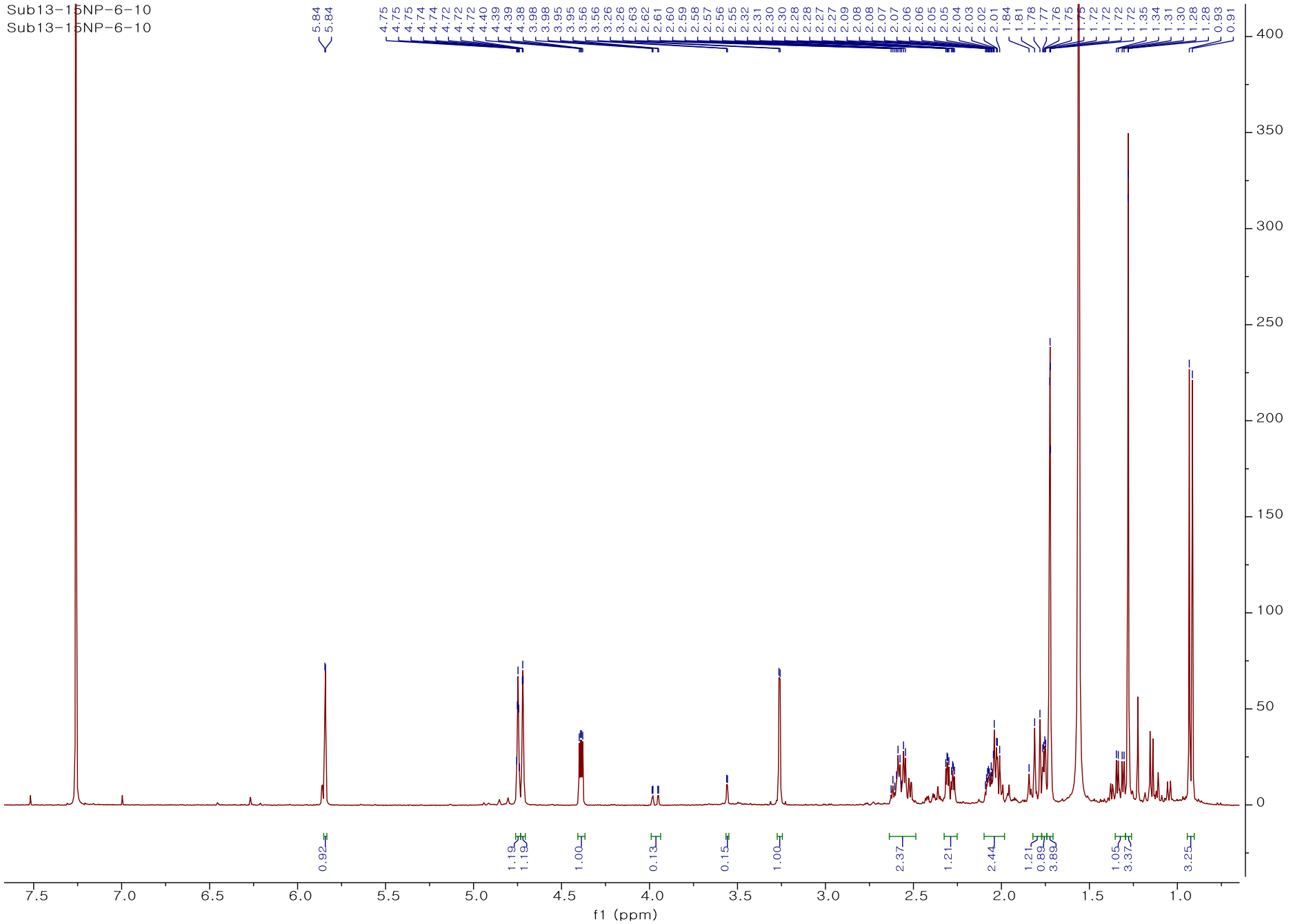


Figure S18. ^{13}C NMR (150 MHz, $CDCl_3$) of compound **3**

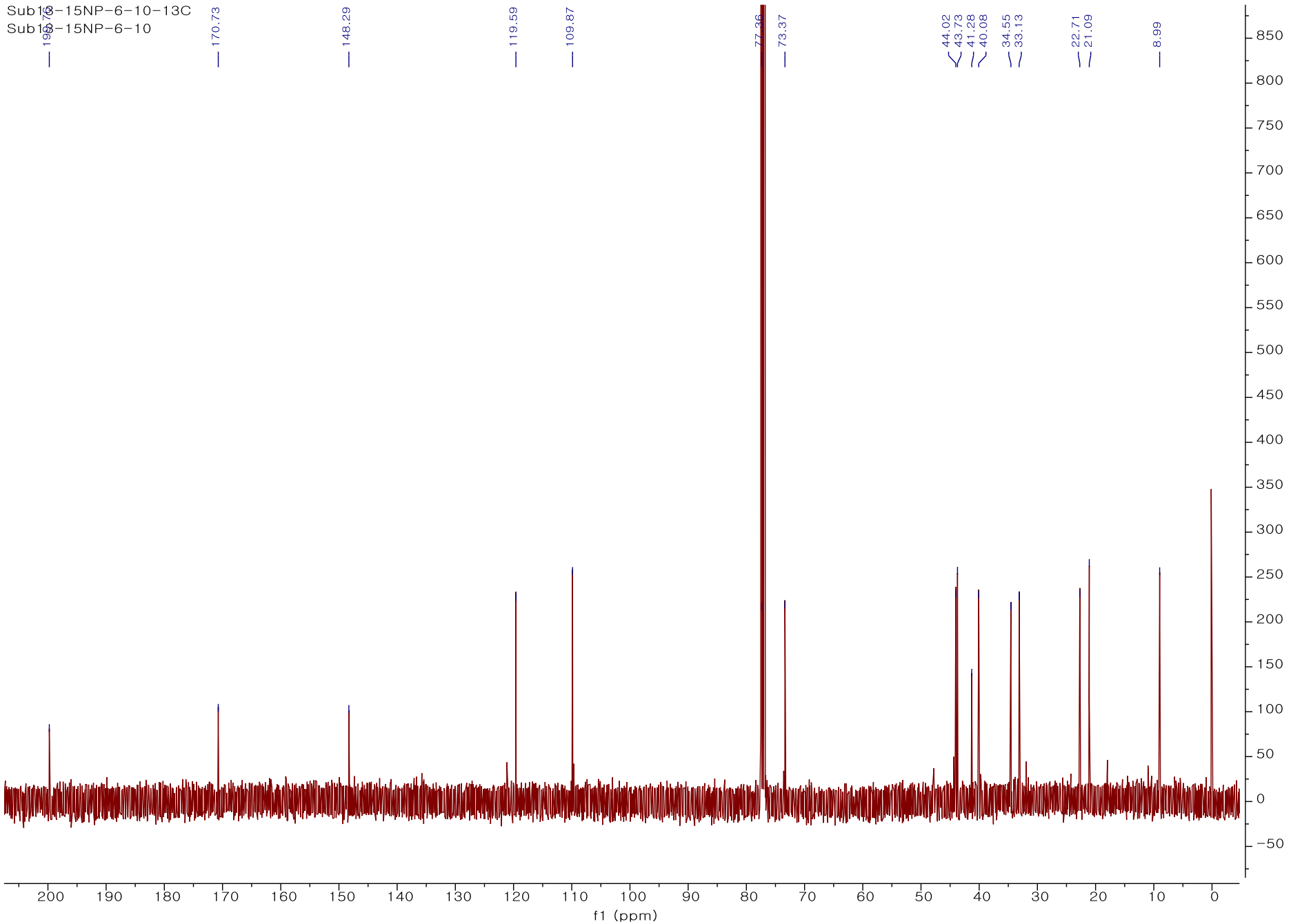


Figure S19. DEPT-135 NMR (150 MHz, $CDCl_3$) of compound **3**

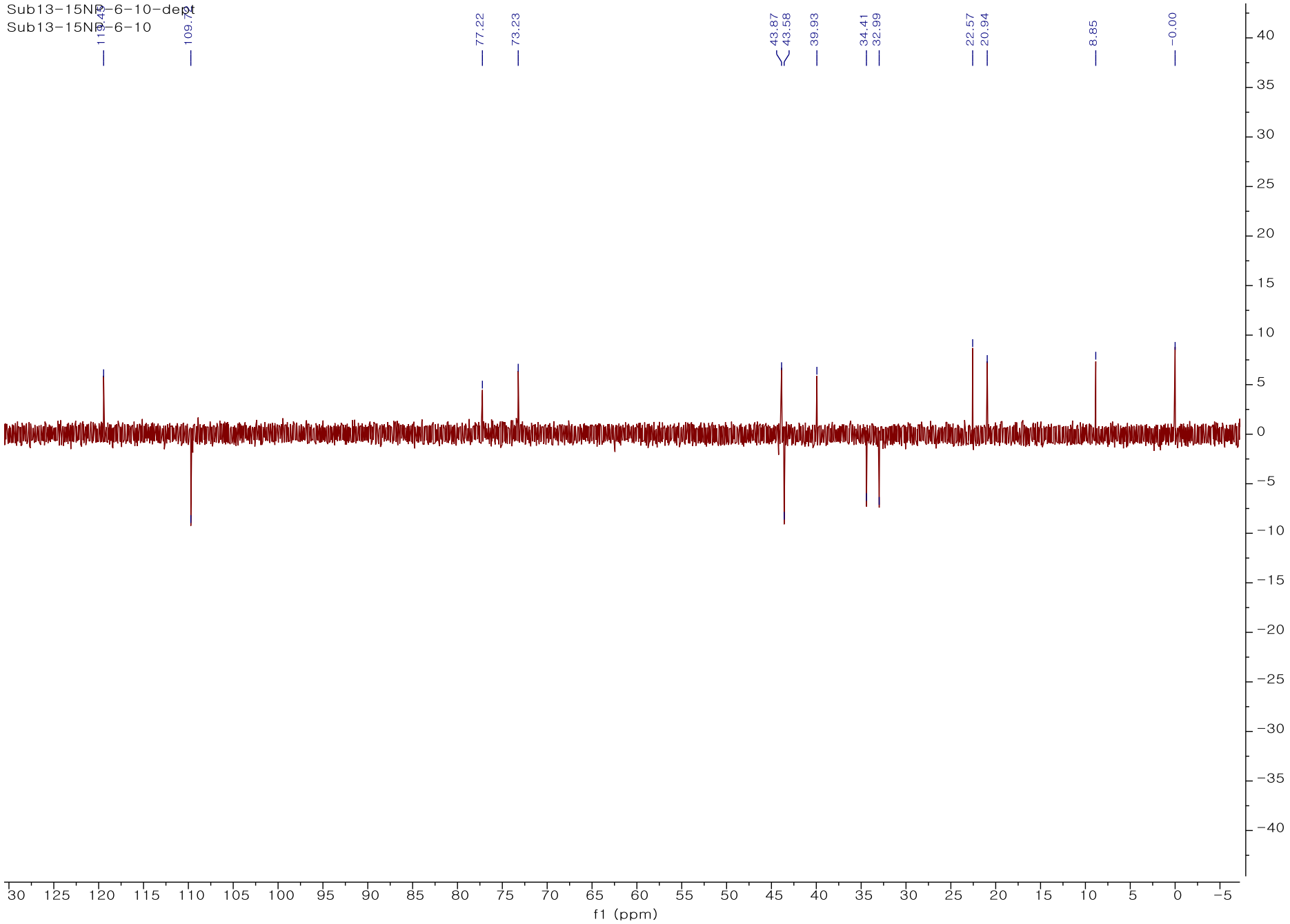


Figure S20. ^{1}H-^{1}H COSY NMR ($CDCl_3$) of compound **3**

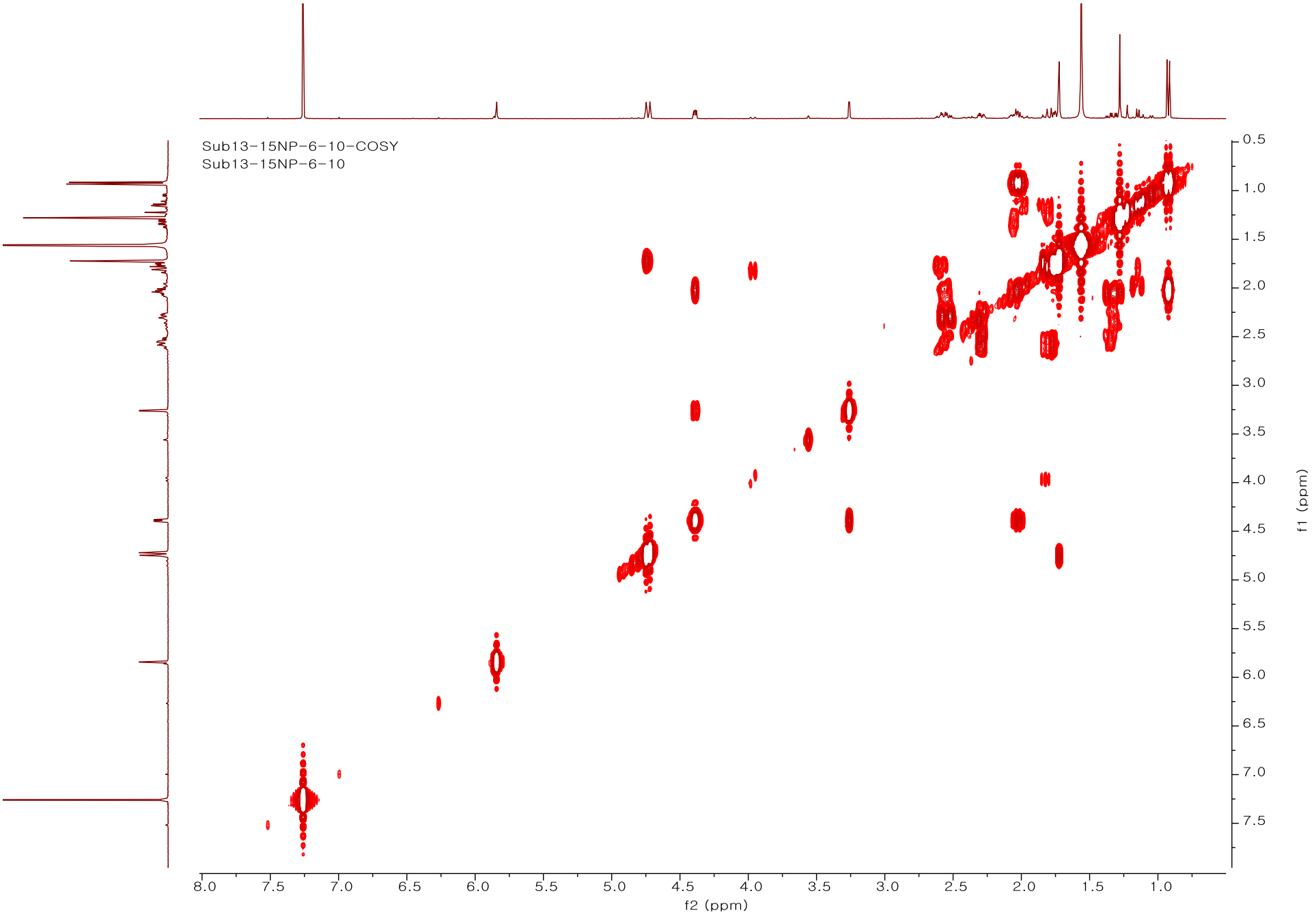


Figure S21. ^{1}H-^{13}C HSQC NMR ($CDCl_3$) of compound **3**

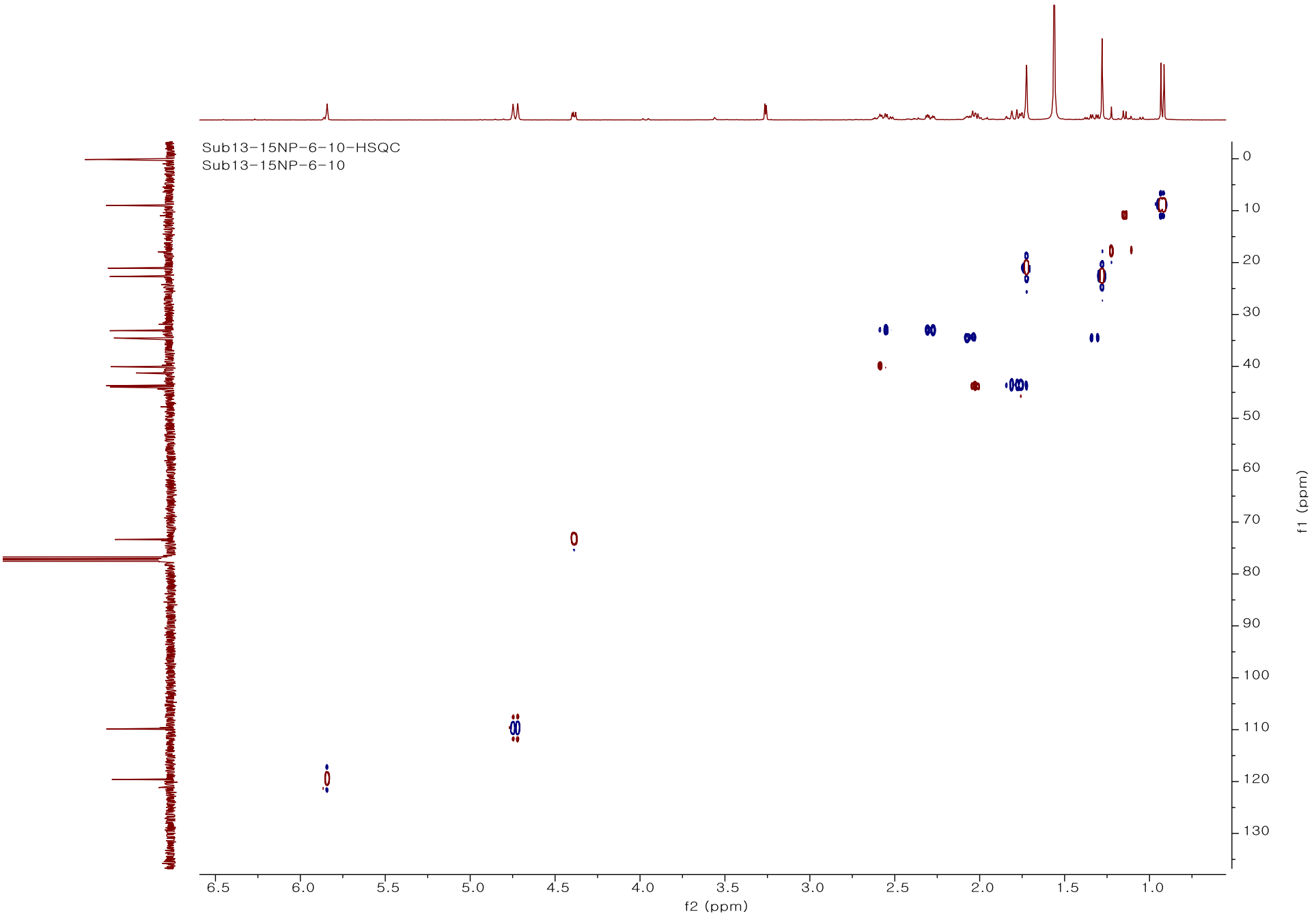


Figure S22. ^{1}H-^{13}C HMBC NMR ($CDCl_3$) of compound **3**

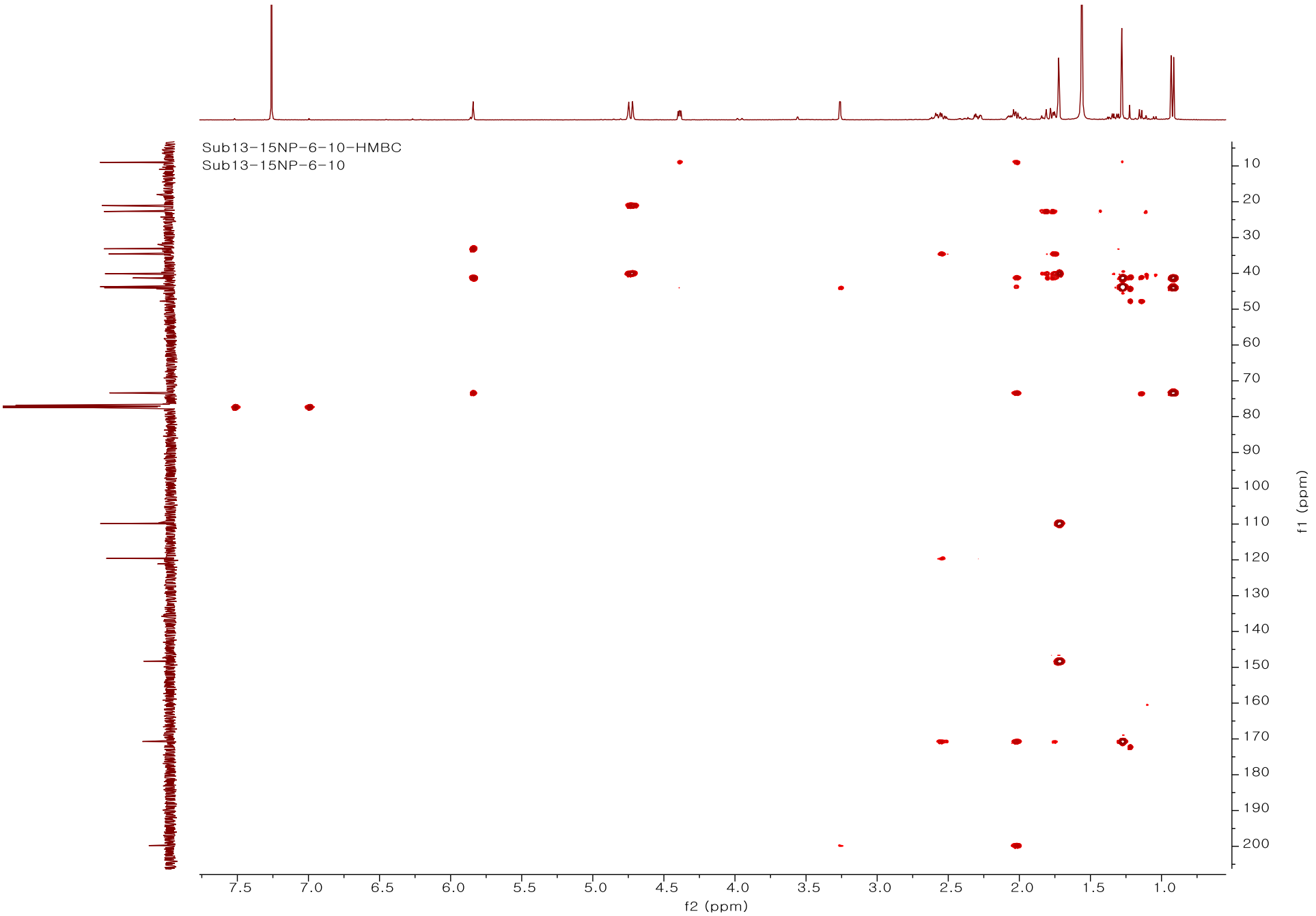


Figure S23. ^{1}H-^{1}H NOESY NMR ($CDCl_3$) of compound **3**

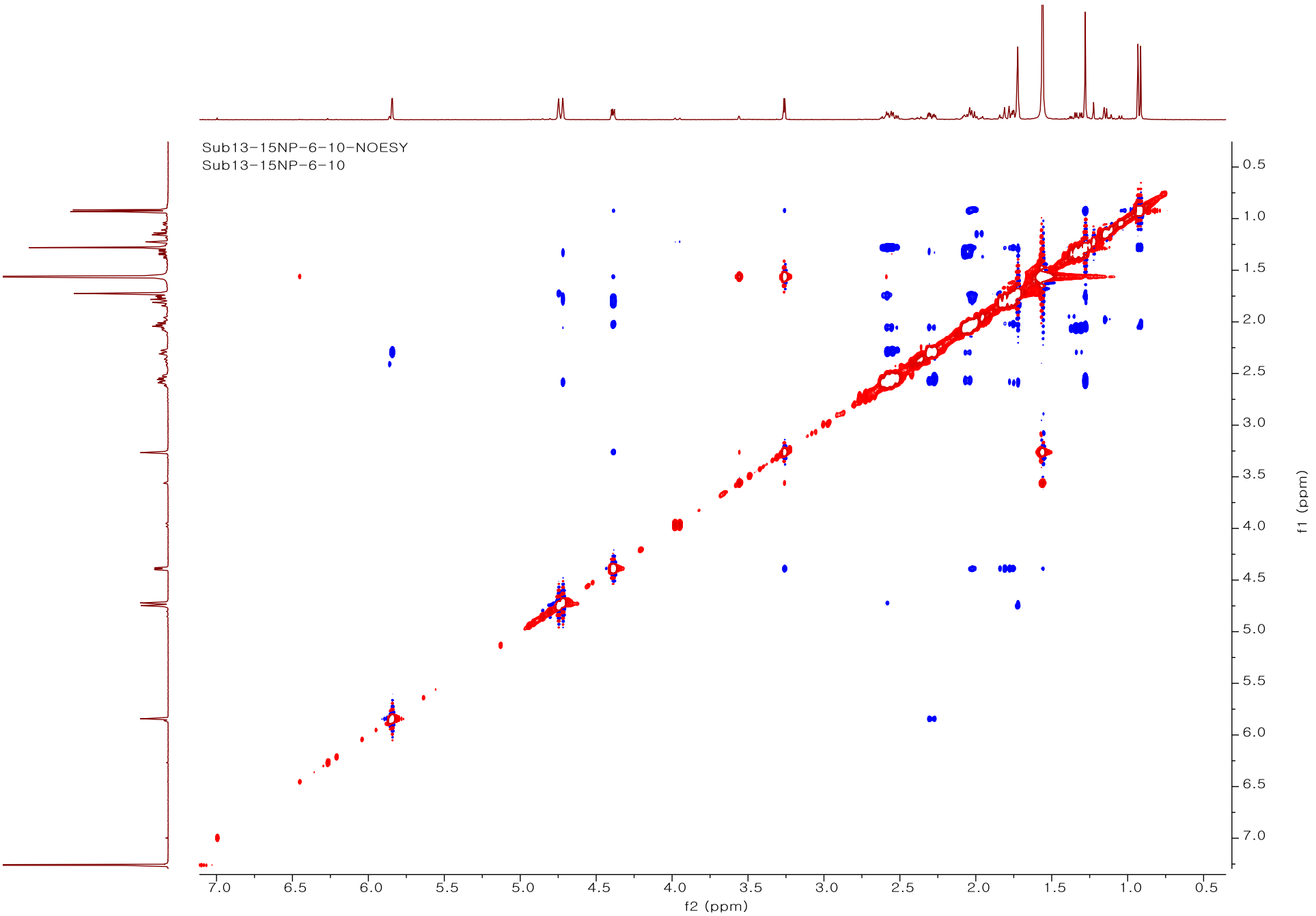


Figure S24. HR-ESIMS of compound **3**

Data File	EA323H-52-11-k10(p)01.d	**Sample Name**	Sample1
Sample Type	Sample	**Position**	P1-A2
Instrument Name	Instrument 1	**User Name**	
Acq Method	B213-nocolumn.m	**Acquired Time**	1/15/2020 3:45:45 PM
IRM Calibration Status	Success	**DA Method**	kikisil.m
Comment	0.1, 110V		

Sample Group		**Info.**	
Stream Name	LC 1	**Acquisition SW Version**	6200 series TOF/6500 series Q-TOF B.08.00

Compound Table

Compound Label	RT	Mass	Abund	Formula	Tgt Mass	Diff (ppm)
Cpd 1: C15 H22 O2	0.193	234.1617	3592	C15 H22 O2	234.162	-1.15

Compound Label	*m/z*	RT	Algorithm	Mass
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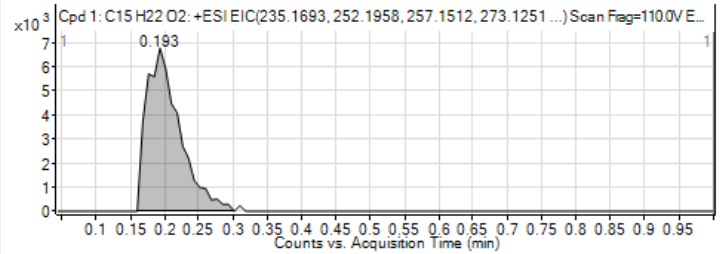
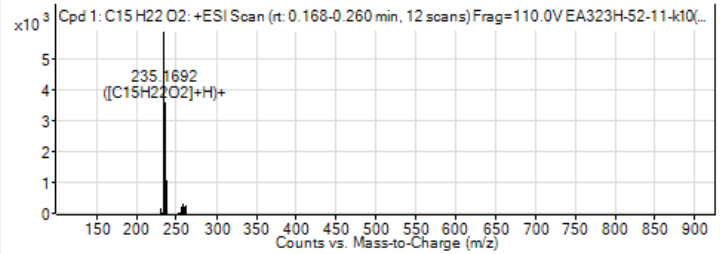
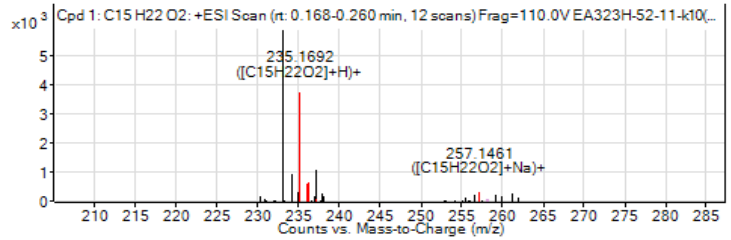


MS Spectrum



MS Zoomed Spectrum



MS Spectrum Peak List

m/z	*Calc m/z*	Diff(ppm)	z	Abund	Formula	Ion
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236.1723	236.1727	1.46	1	607.99	C15H22O2	(M+H)+
237.1803	237.1755	-20.43	1	162.33	C15H22O2	(M+H)+
257.1461	257.1512	19.72	1	304.25	C15H22O2	(M+Na)+