

Supporting Information for

Total Synthesis of the Racemate of Laurolitsine

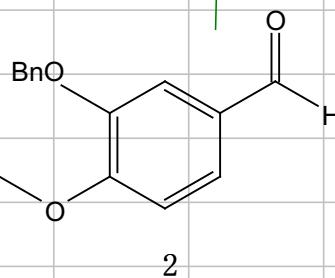
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- 3 Correspondence: hy0207011@hainmc.edu.cn (N. C.); hy0207077@hainmc.edu.cn (X. Z.). Tel: +86-0898-66893826 (X. Z.)

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¹H NMR (400 MHz, CHLOROFORM-D)



2

— 9.7957

0.96

7.4552
7.4380
7.3791
7.3614
7.3421
7.3153
7.2969
7.2790
6.9834
6.9615

4.04
2.14
1.04
1.01

5.1675

2.04

— 3.9363

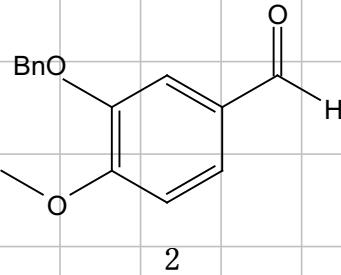
3.00

12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2

f1 (ppm)

S2

¹³C NMR (100 MHz, CHLOROFORM-D)



—190.97

—155.15

—148.79

—136.38

—130.07

—128.75

—128.23

—127.59

—127.01

—111.44

—110.88

—70.93

—56.27

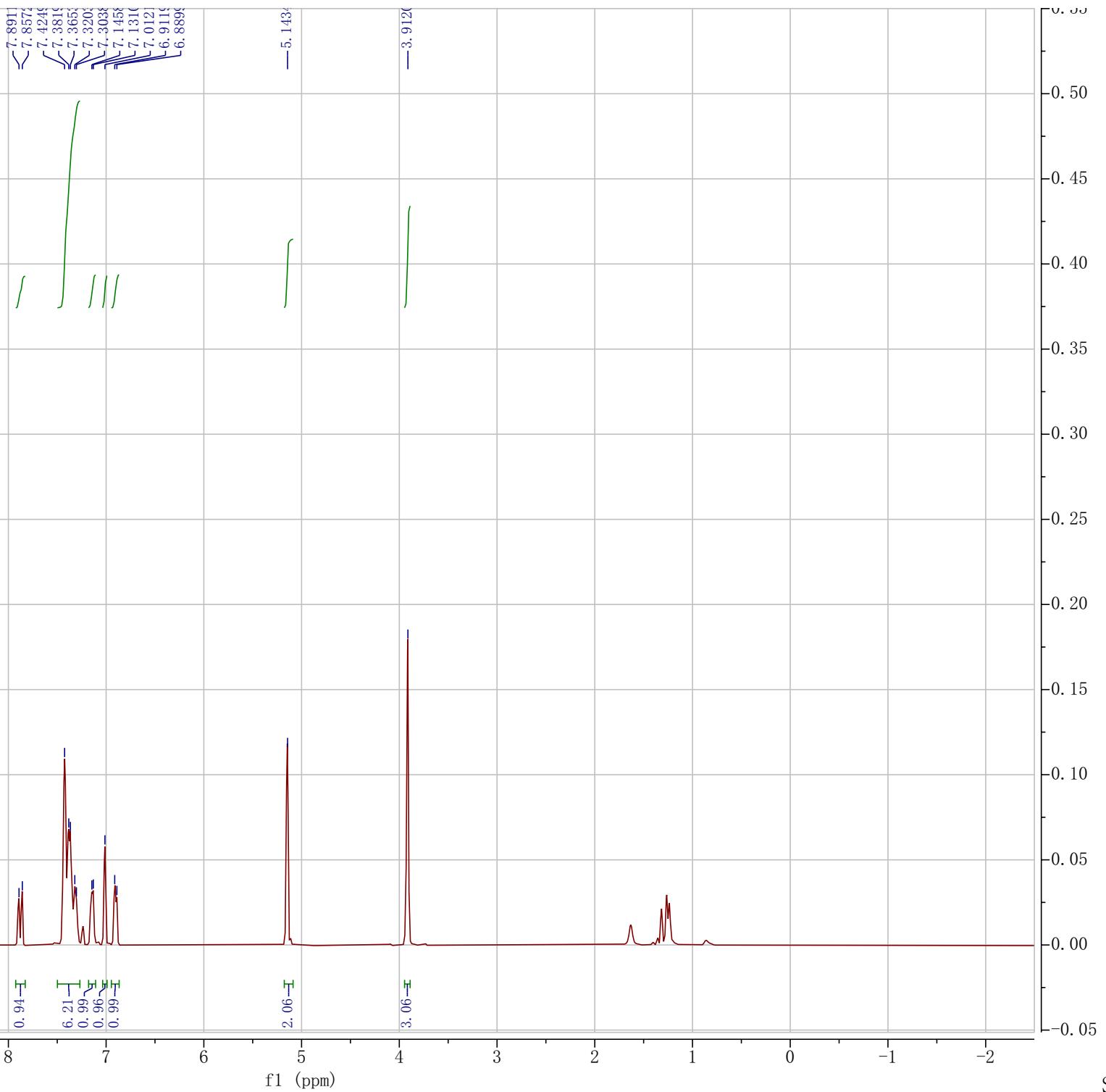
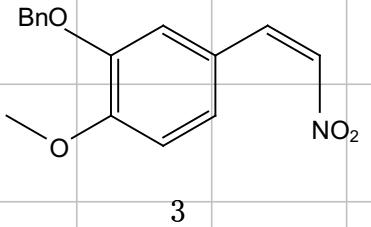
0.014
0.013
0.012
0.011
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
-0.001

220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20

f1 (ppm)

S3

¹H NMR (400 MHz, CHLOROFORM-D)

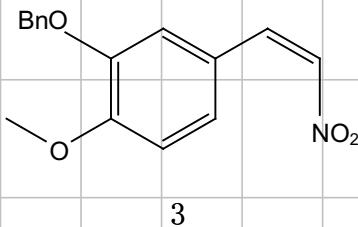


12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2

f1 (ppm)

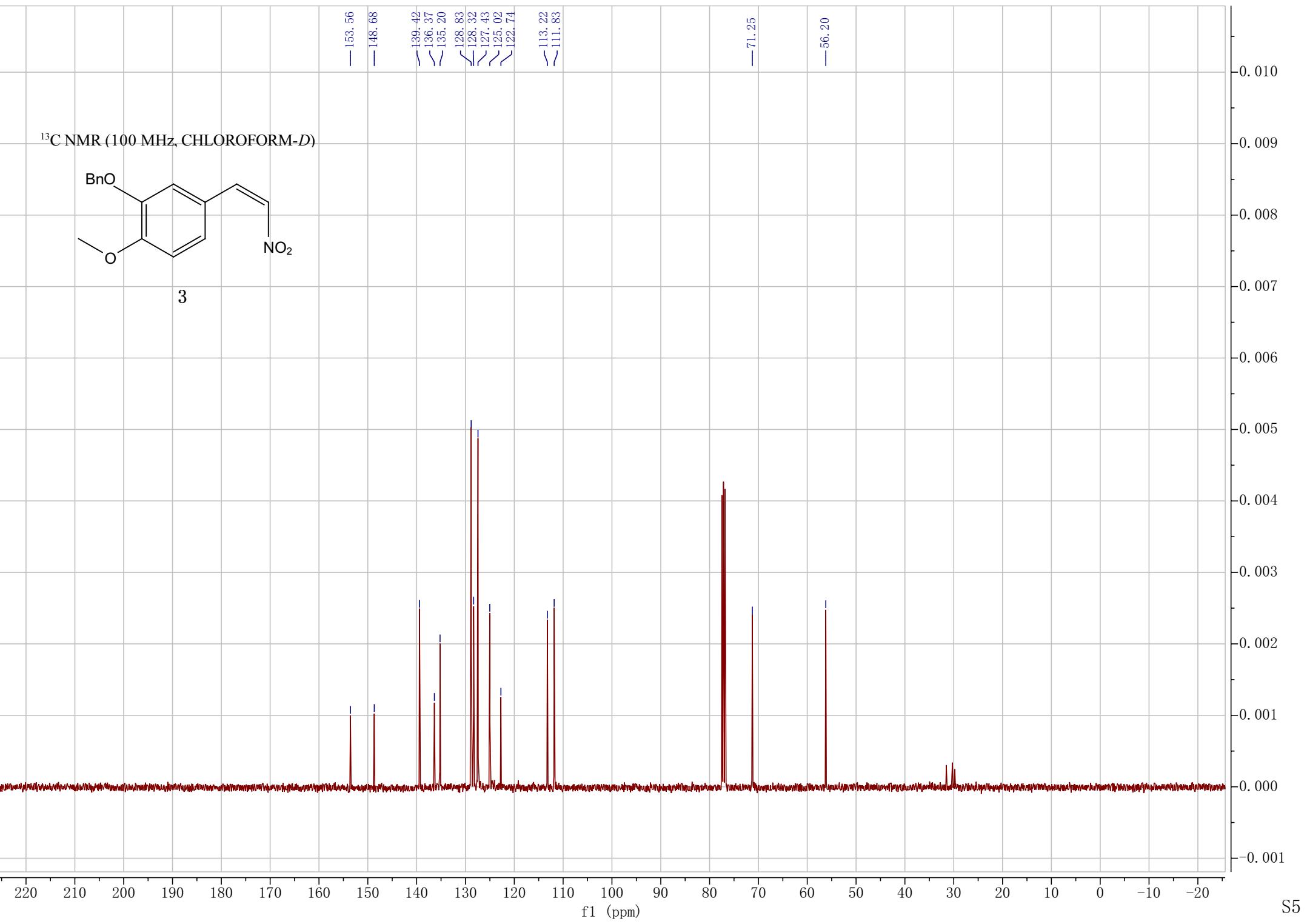
S4

¹³C NMR (100 MHz, CHLOROFORM-D)



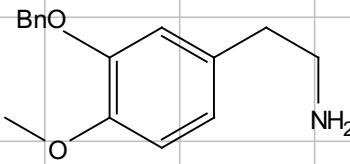
— 153. 56
— 148. 68
— 139. 42
— 136. 37
— 135. 20
— 128. 83
— 128. 32
— 127. 43
— 125. 02
— 122. 74
— 113. 22
— 111. 83

— 71. 25
— 56. 20

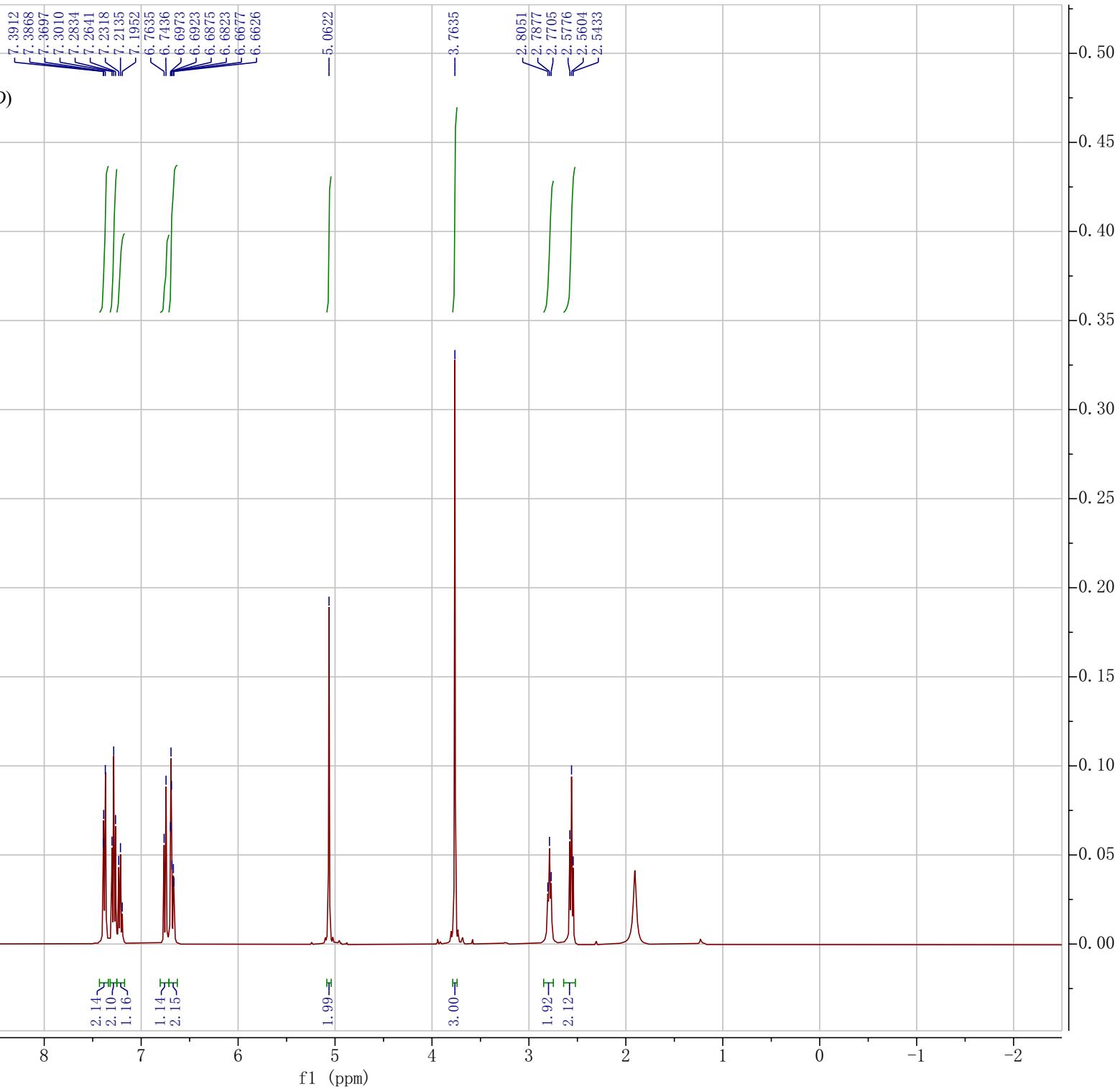


S5

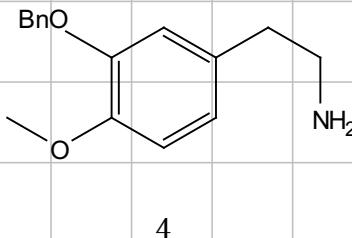
¹H NMR (400 MHz, CHLOROFORM-D)



4



¹³C NMR (100 MHz, CHLOROFORM-D)

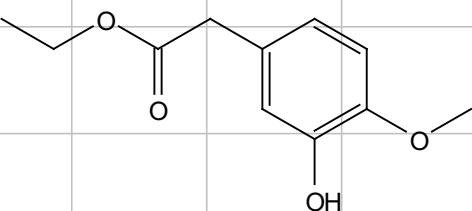


148.30
148.09
137.28
132.27
128.58
127.90
127.48
121.56
115.14
112.10
71.07
56.10
43.47
39.16

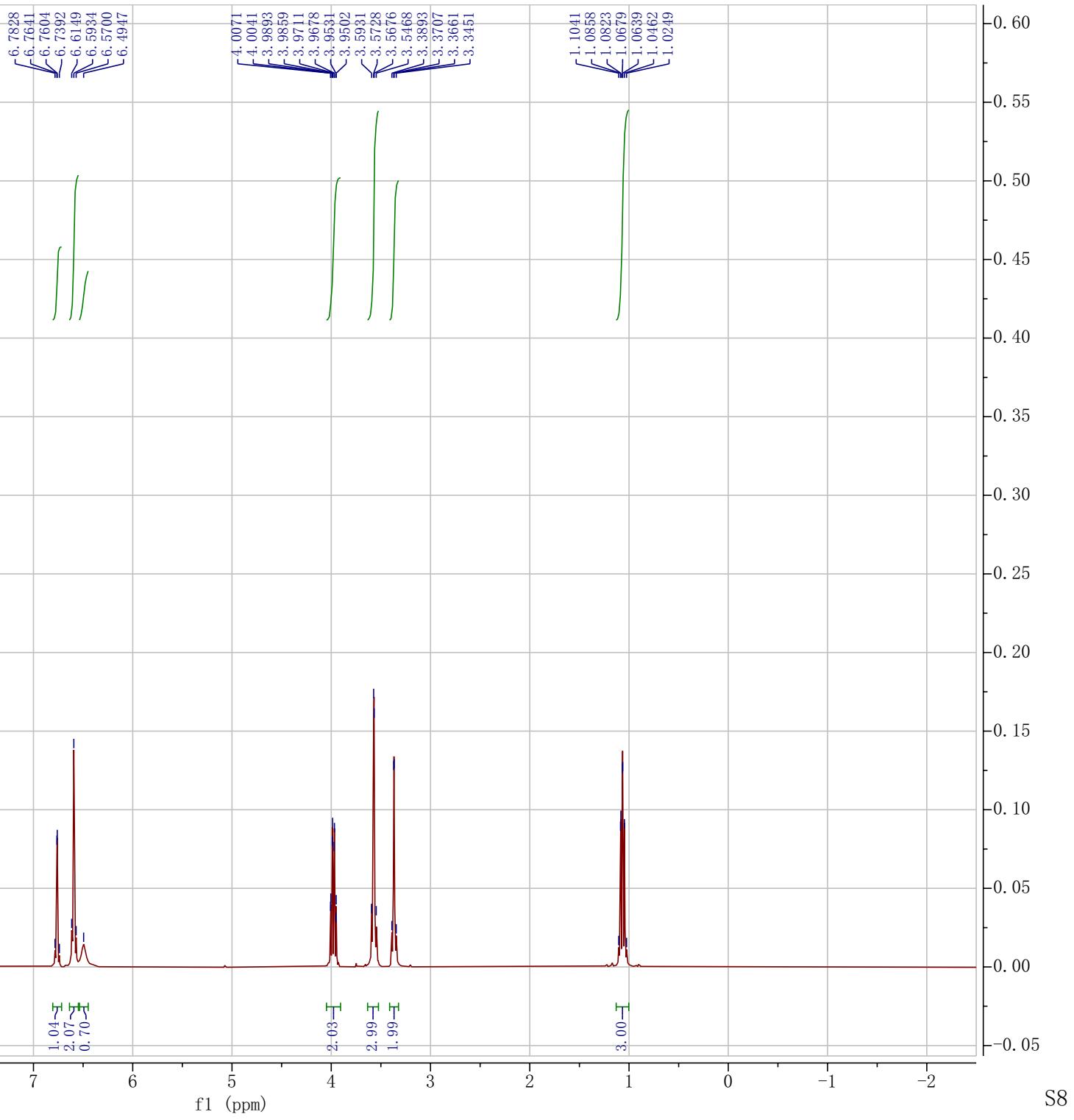
220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20

f1 (ppm)

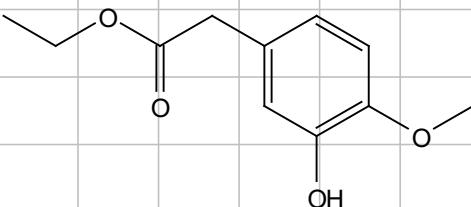
S7



6



¹³C NMR (101 MHz, CHLOROFORM-D)



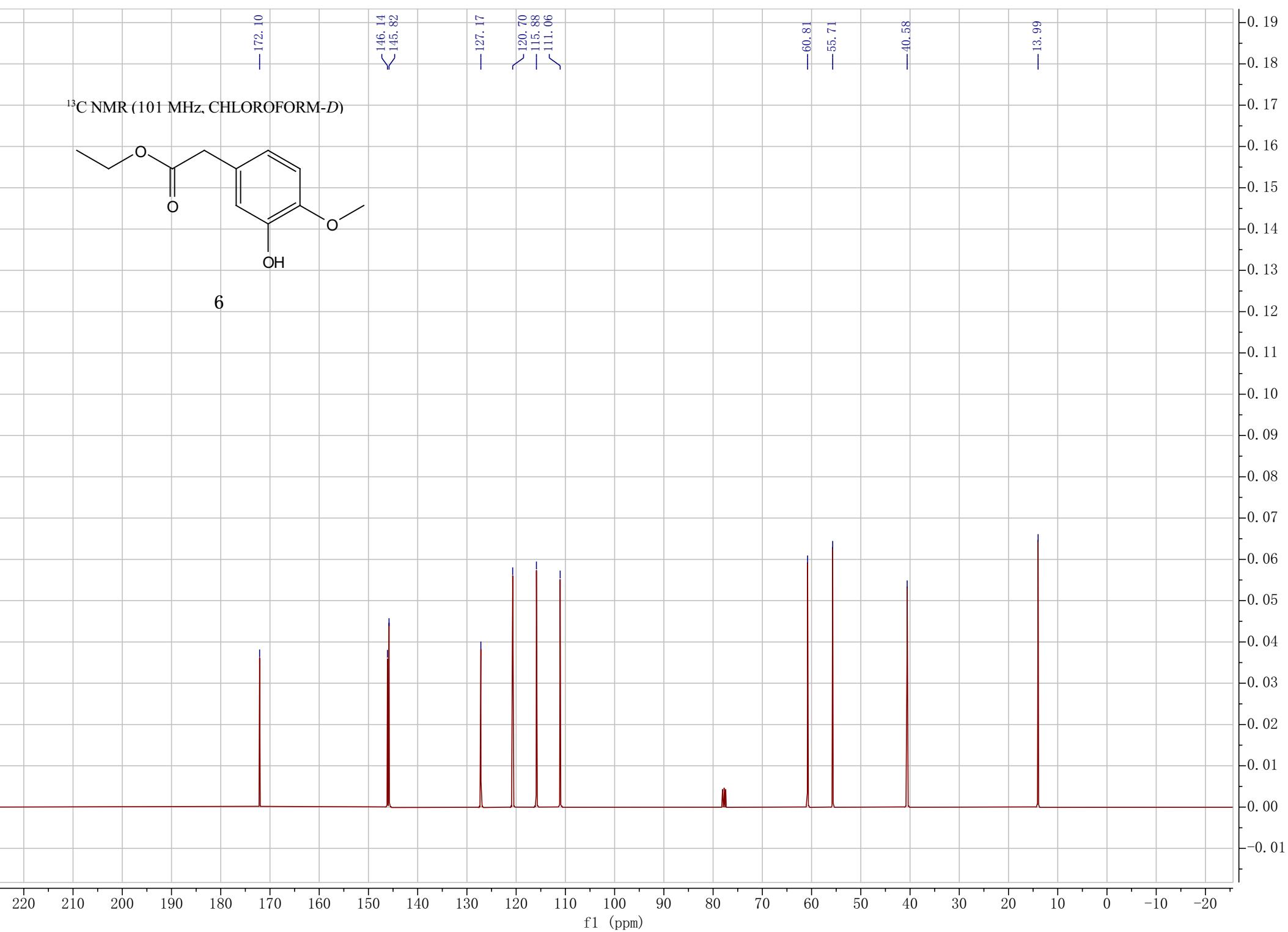
6

172.10
146.14
145.82

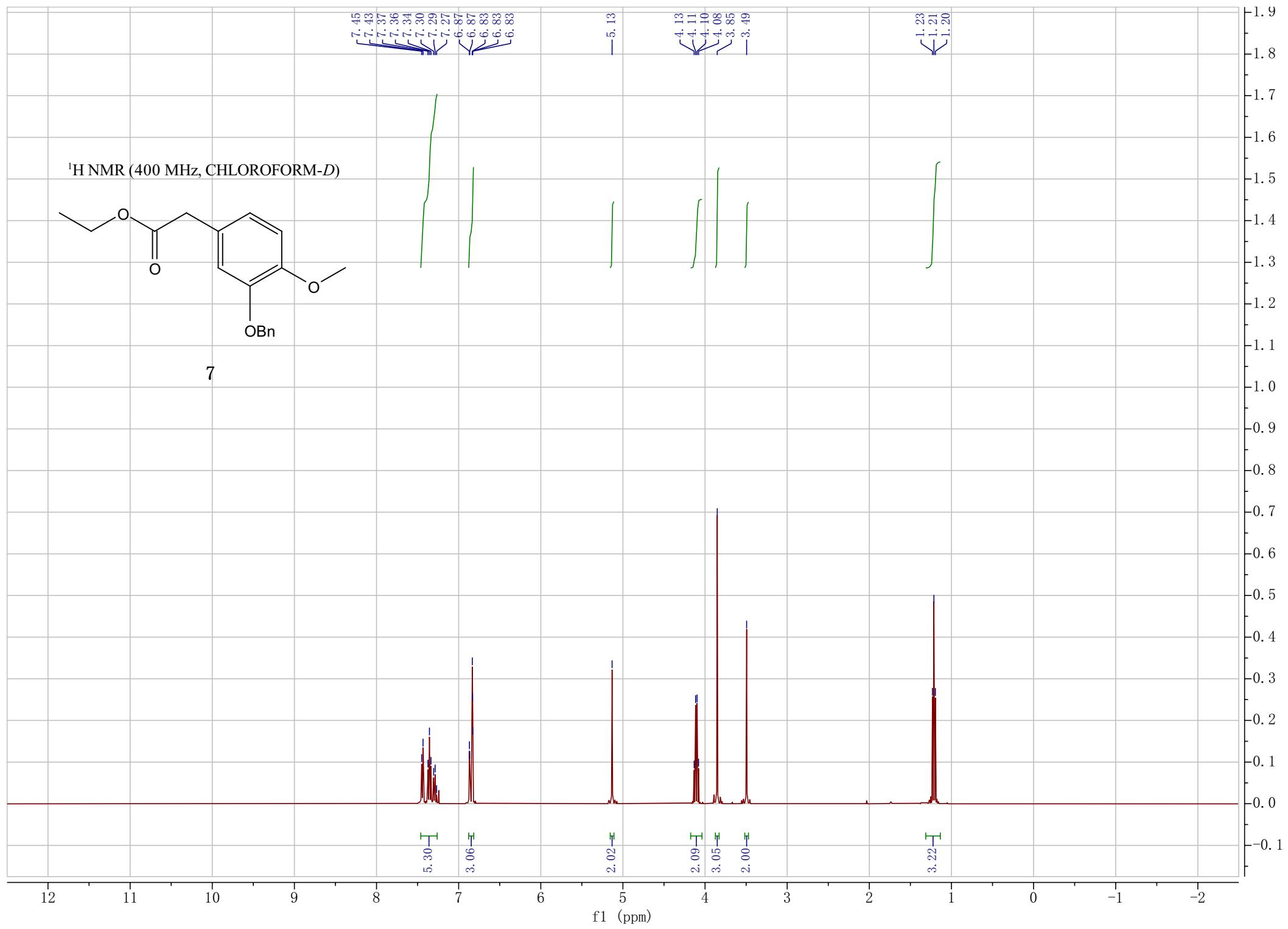
127.17
120.70
115.88
111.06

60.81
55.71
40.58

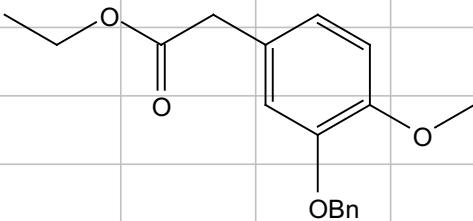
13.99



S9



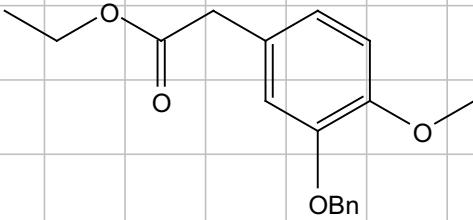
¹H NMR (400 MHz, CHLOROFORM-D)



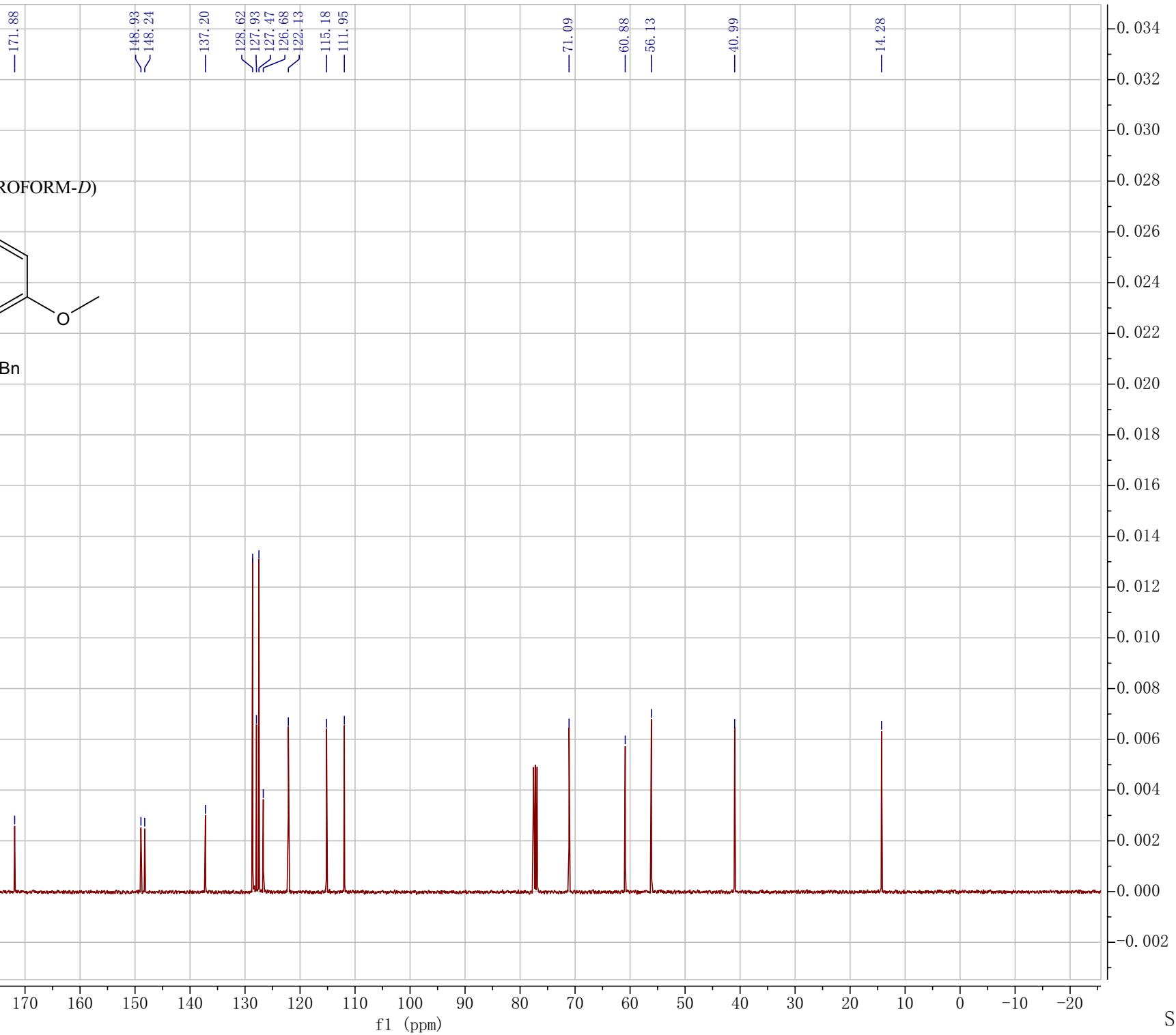
7

S10

¹³C NMR (100 MHz, CHLOROFORM-D)

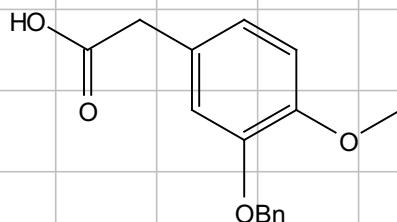


7



S11

¹H NMR (400 MHz, CHLOROFORM-D)



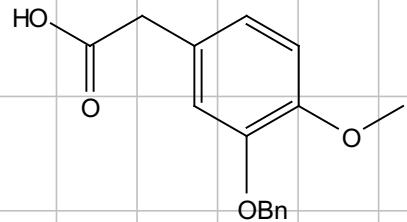
8



f1 (ppm)

S12

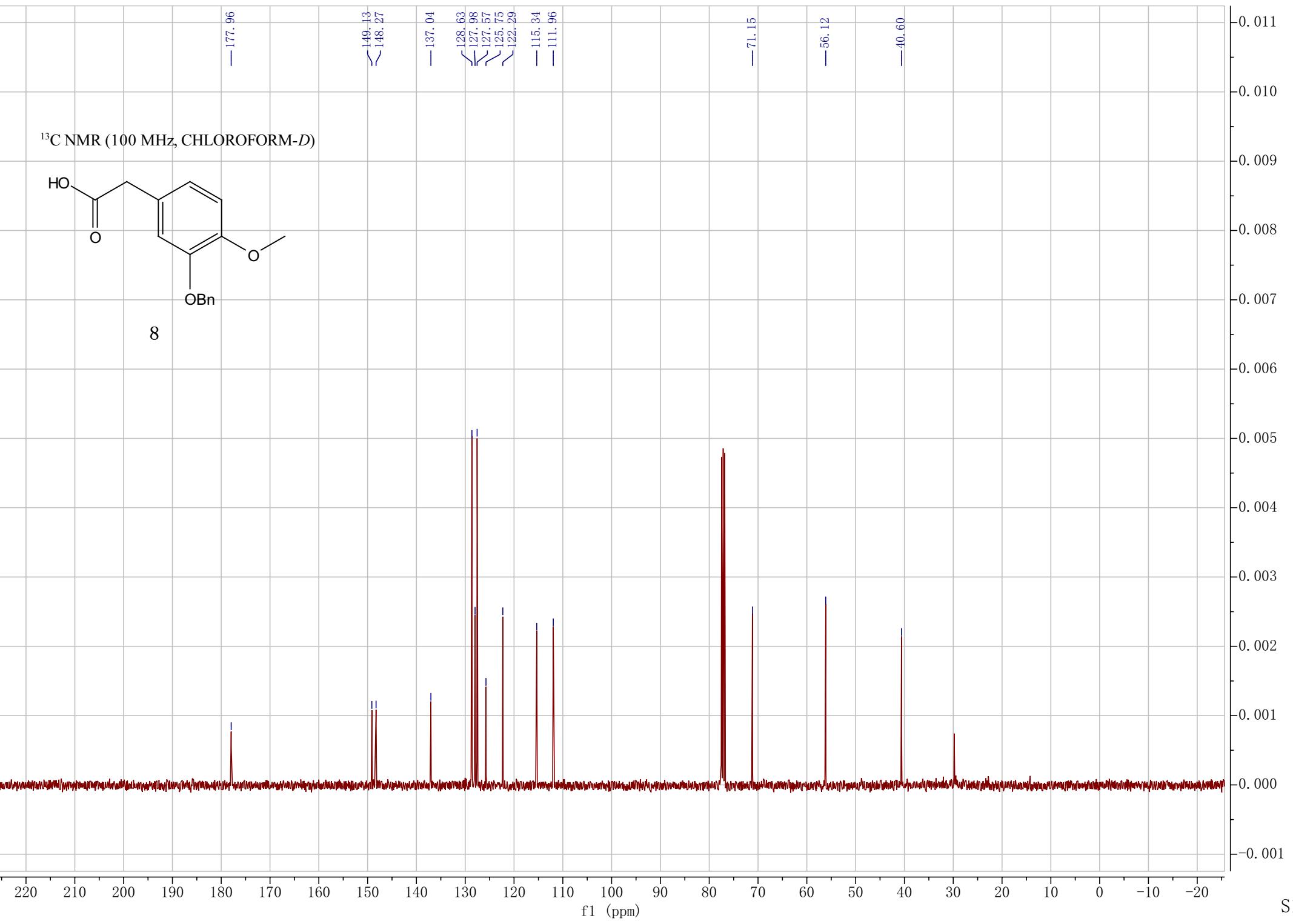
¹³C NMR (100 MHz, CHLOROFORM-D)



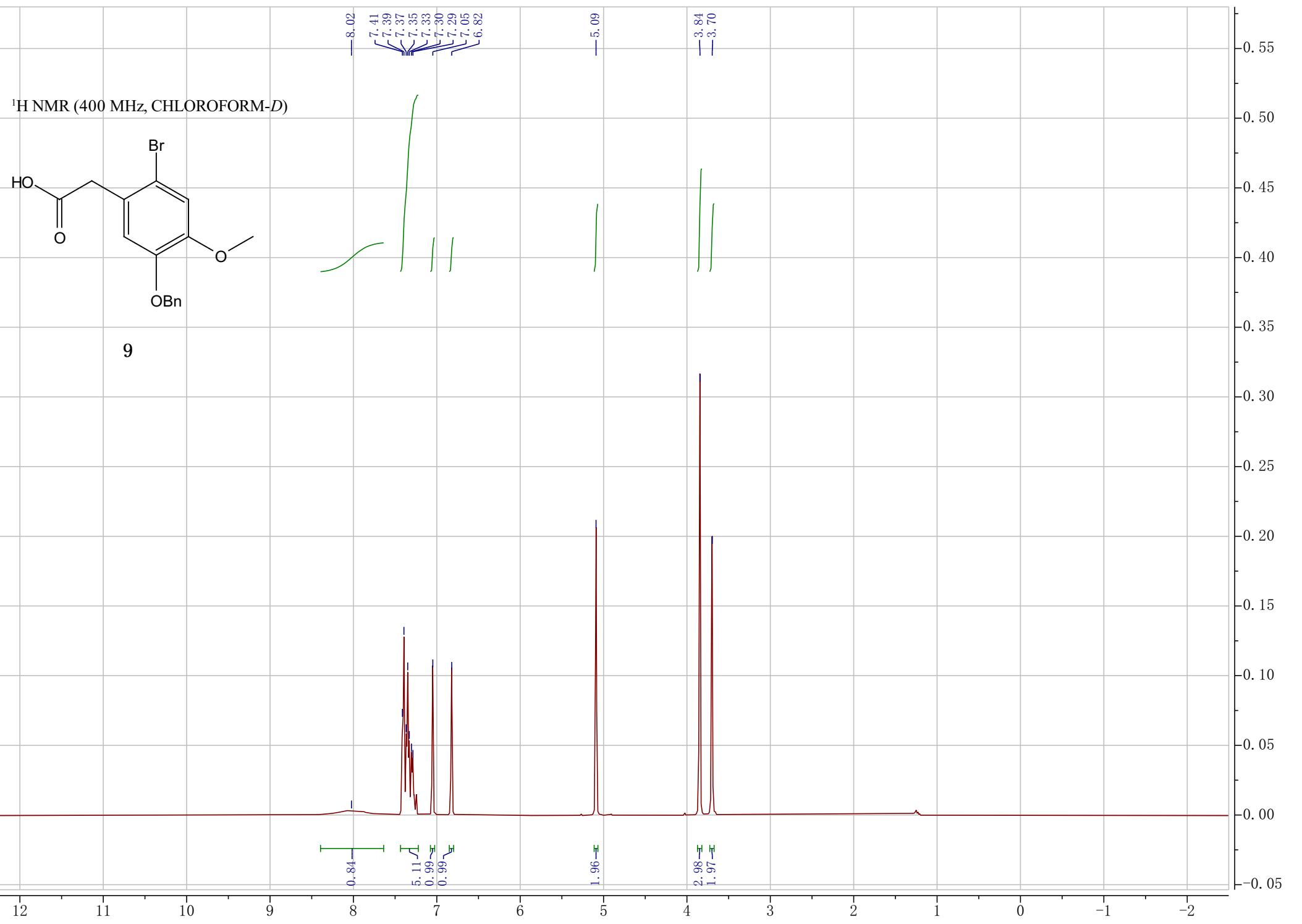
8

— 177.96
— 149.13
— 148.27
— 137.04
— 128.63
— 127.98
— 127.57
— 125.75
— 122.29
— 115.34
— 111.96

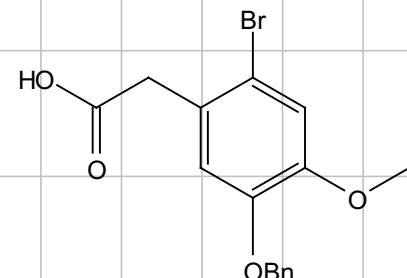
— 71.15
— 56.12
— 40.60



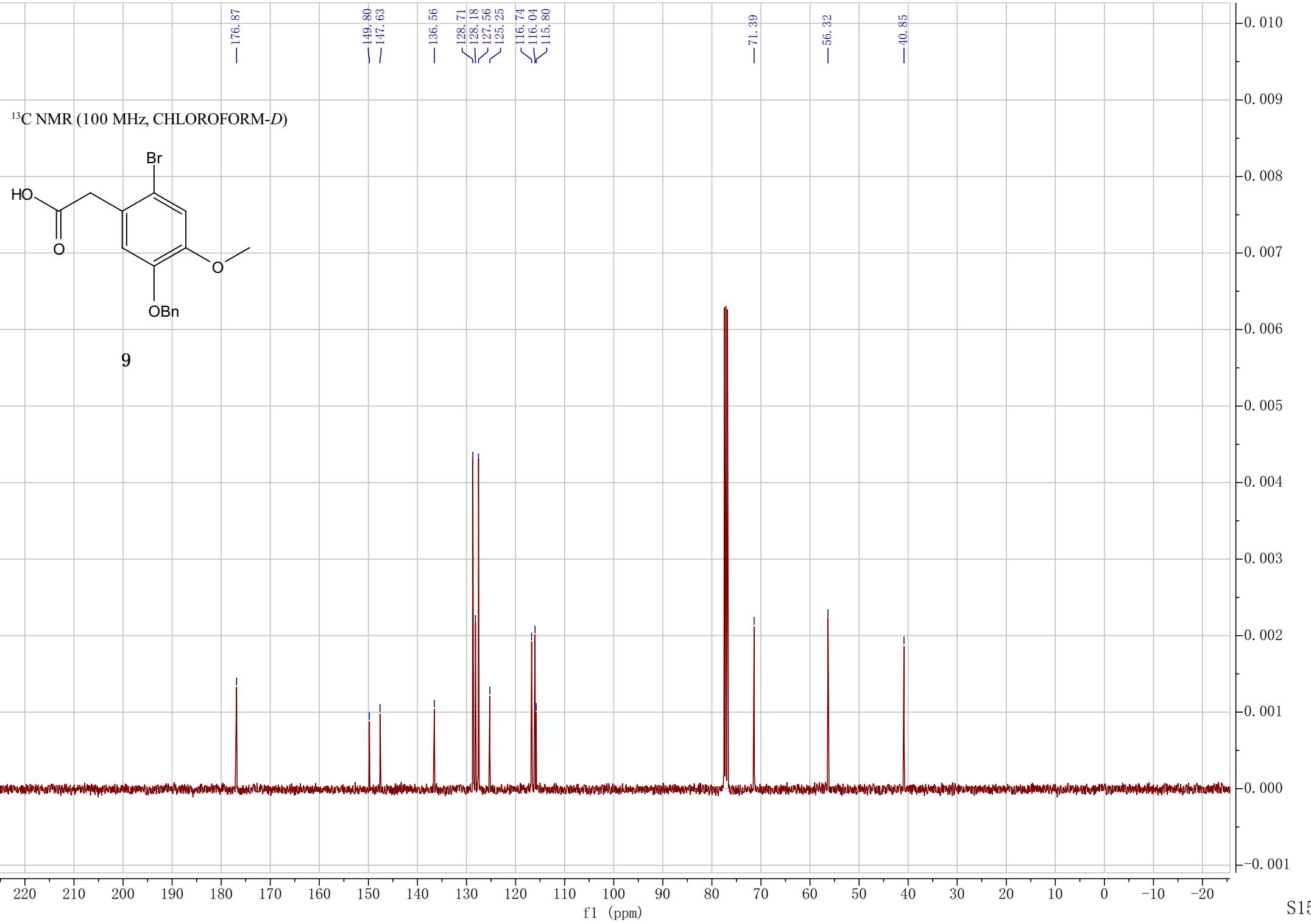
S13



¹³C NMR (100 MHz, CHLOROFORM-D)

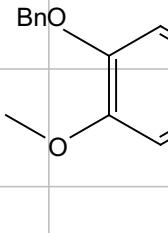


9

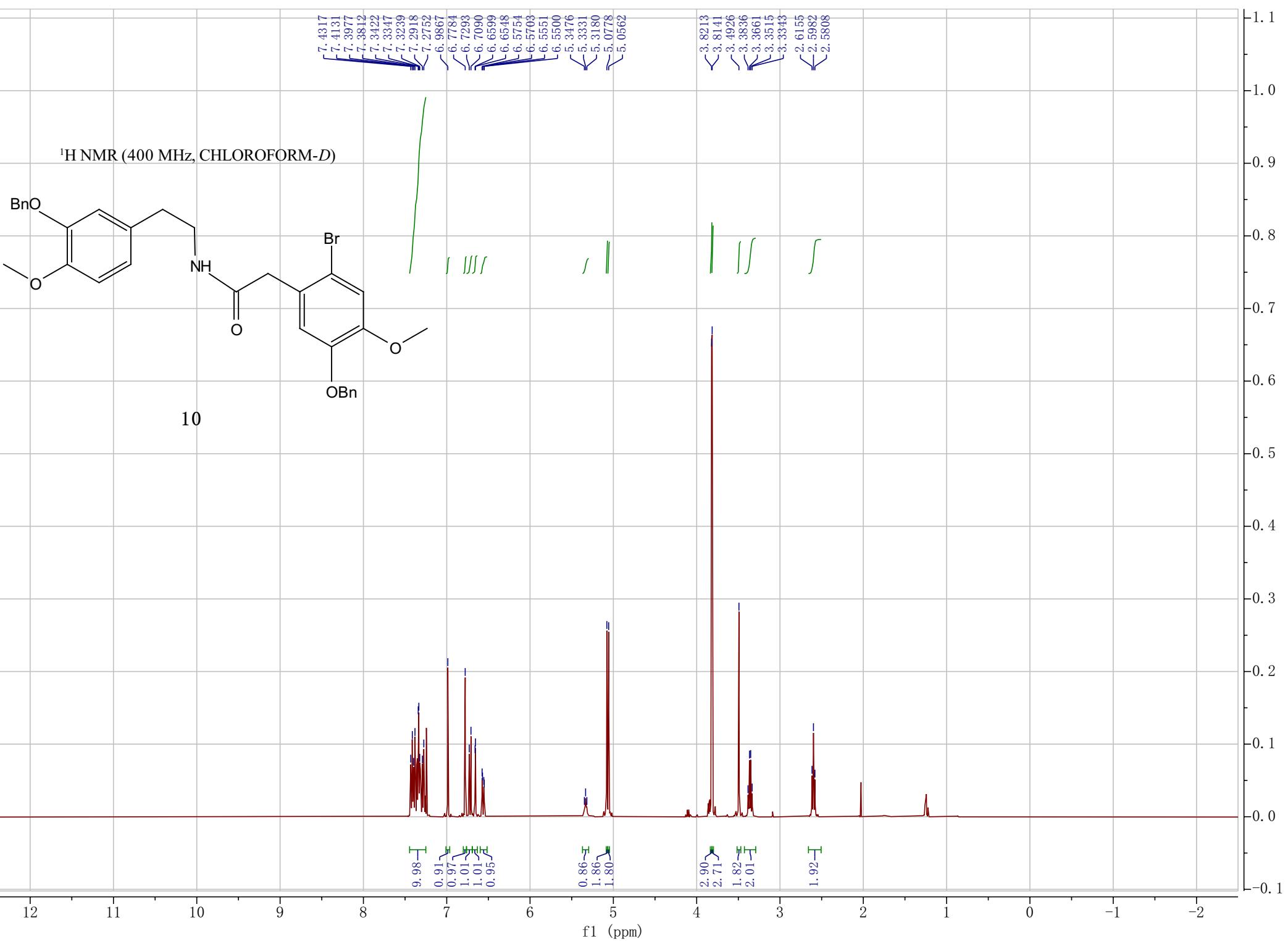


S15

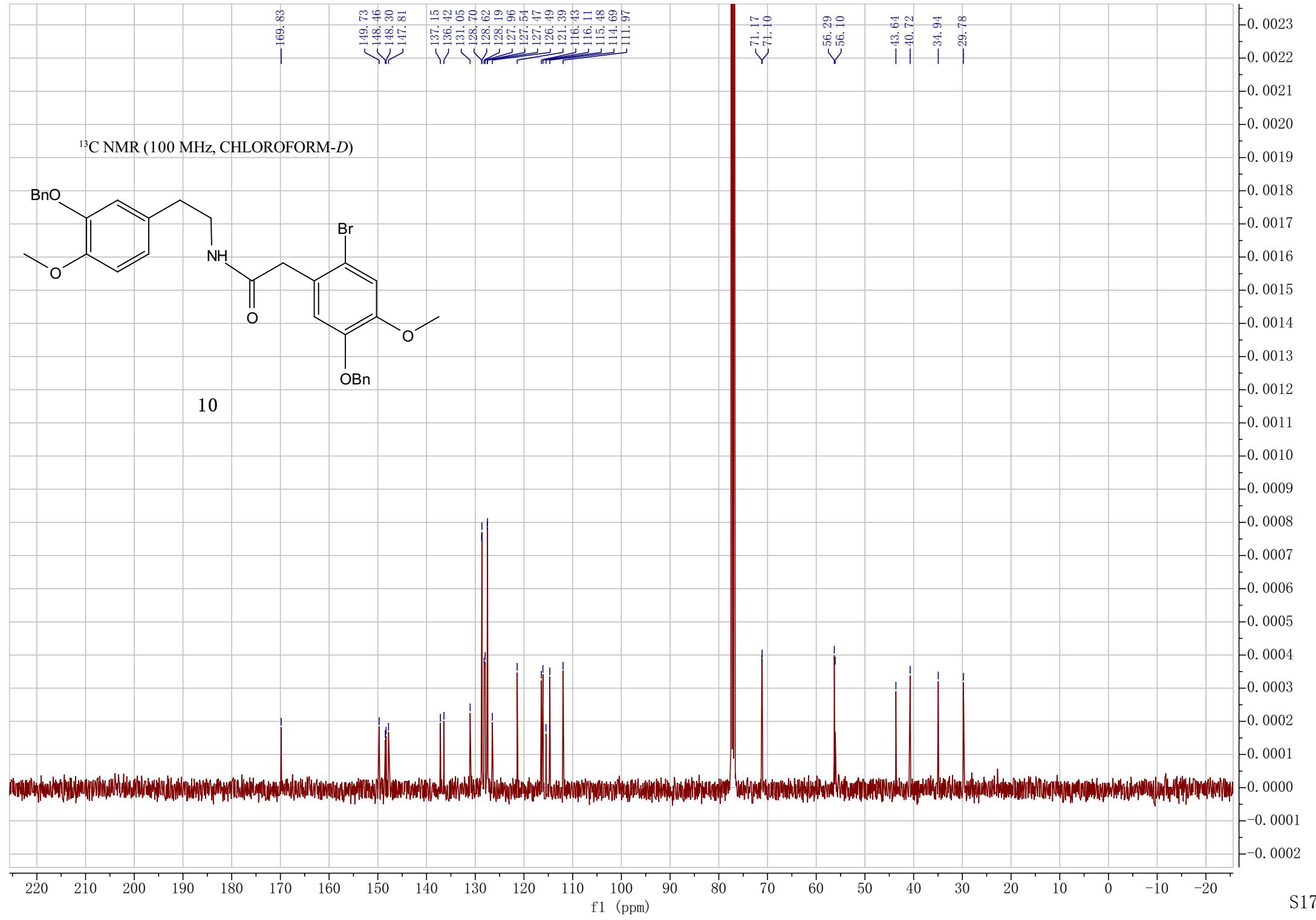
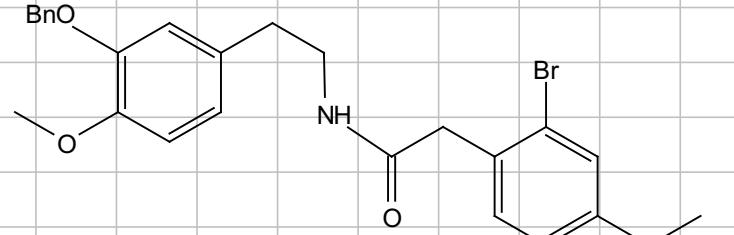
¹H NMR (400 MHz, CHLOROFORM-D)



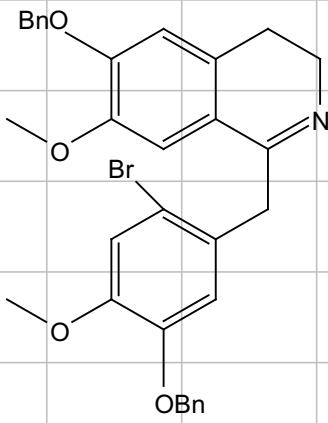
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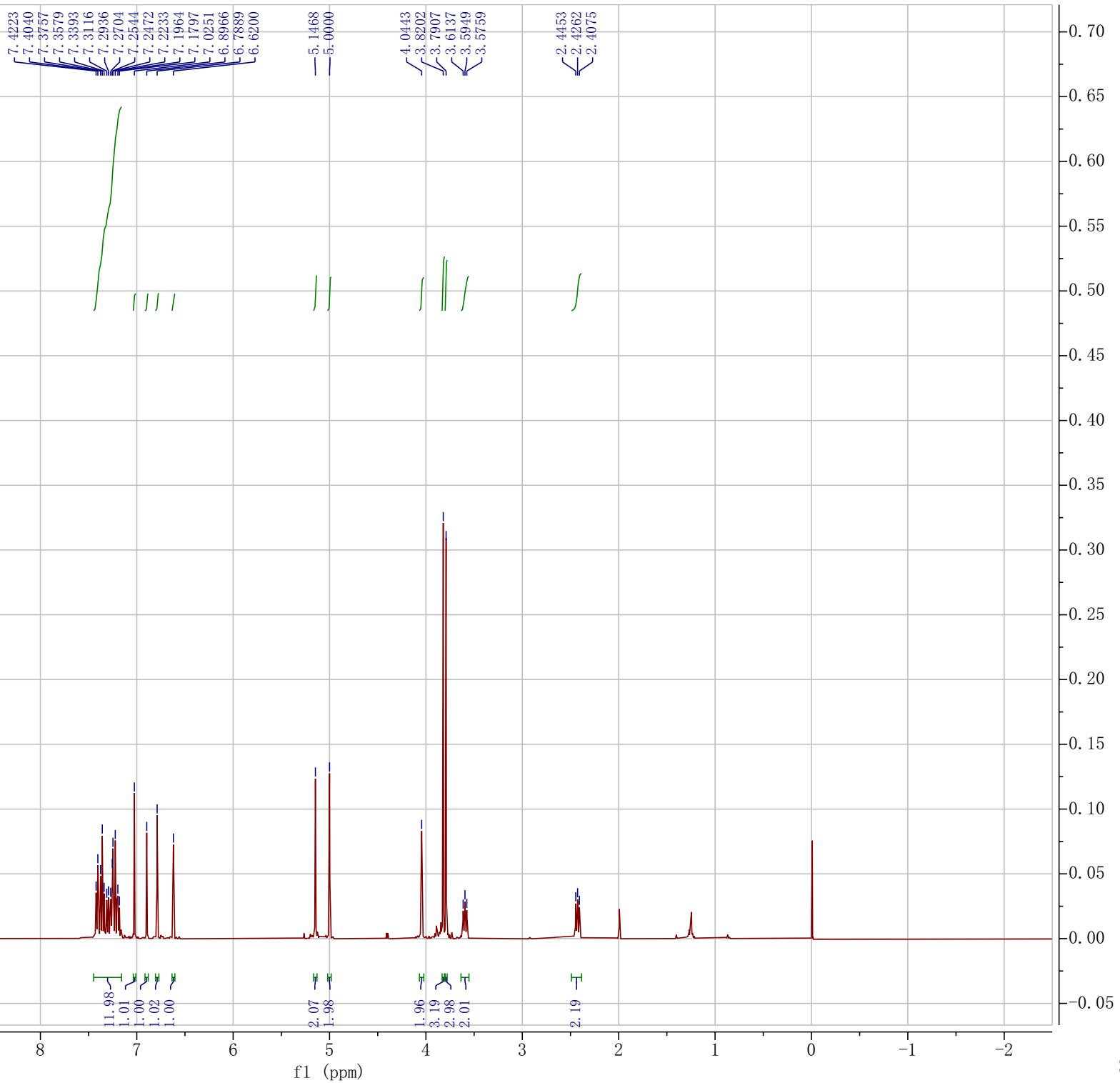
¹³C NMR (100 MHz, CHLOROFORM-D)



¹H NMR (400 MHz, CHLOROFORM-D)

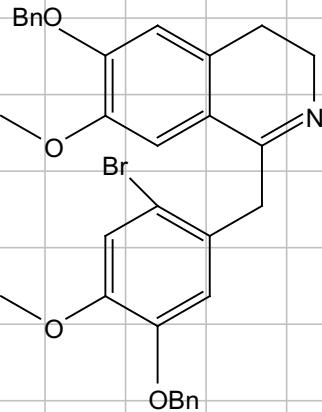


11

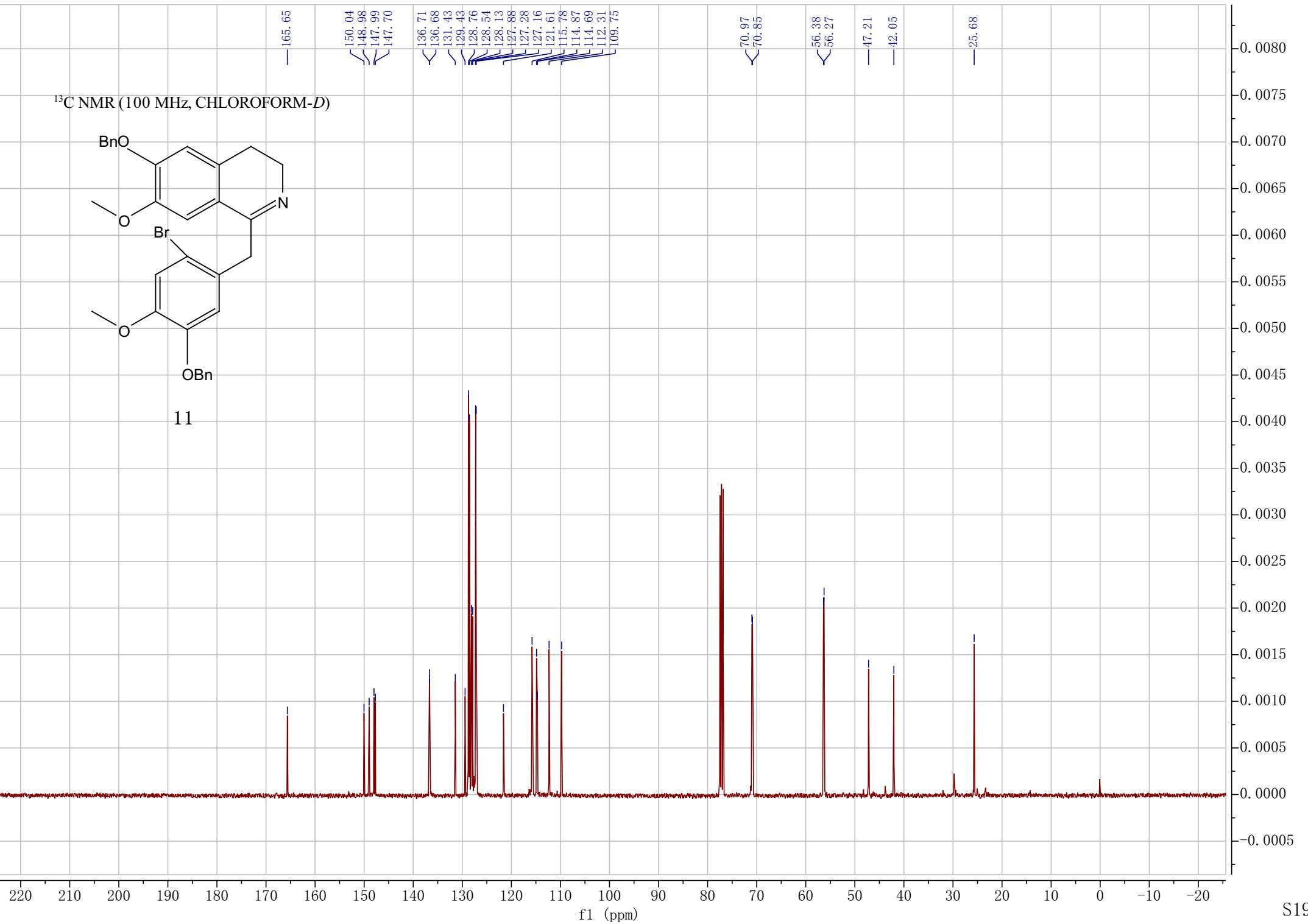


S18

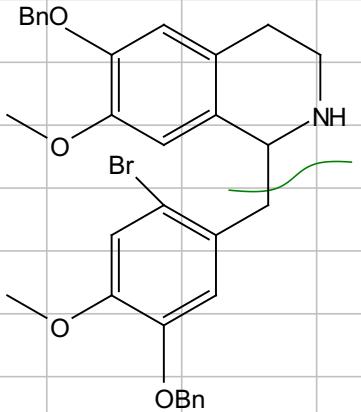
¹³C NMR (100 MHz, CHLOROFORM-D)



11

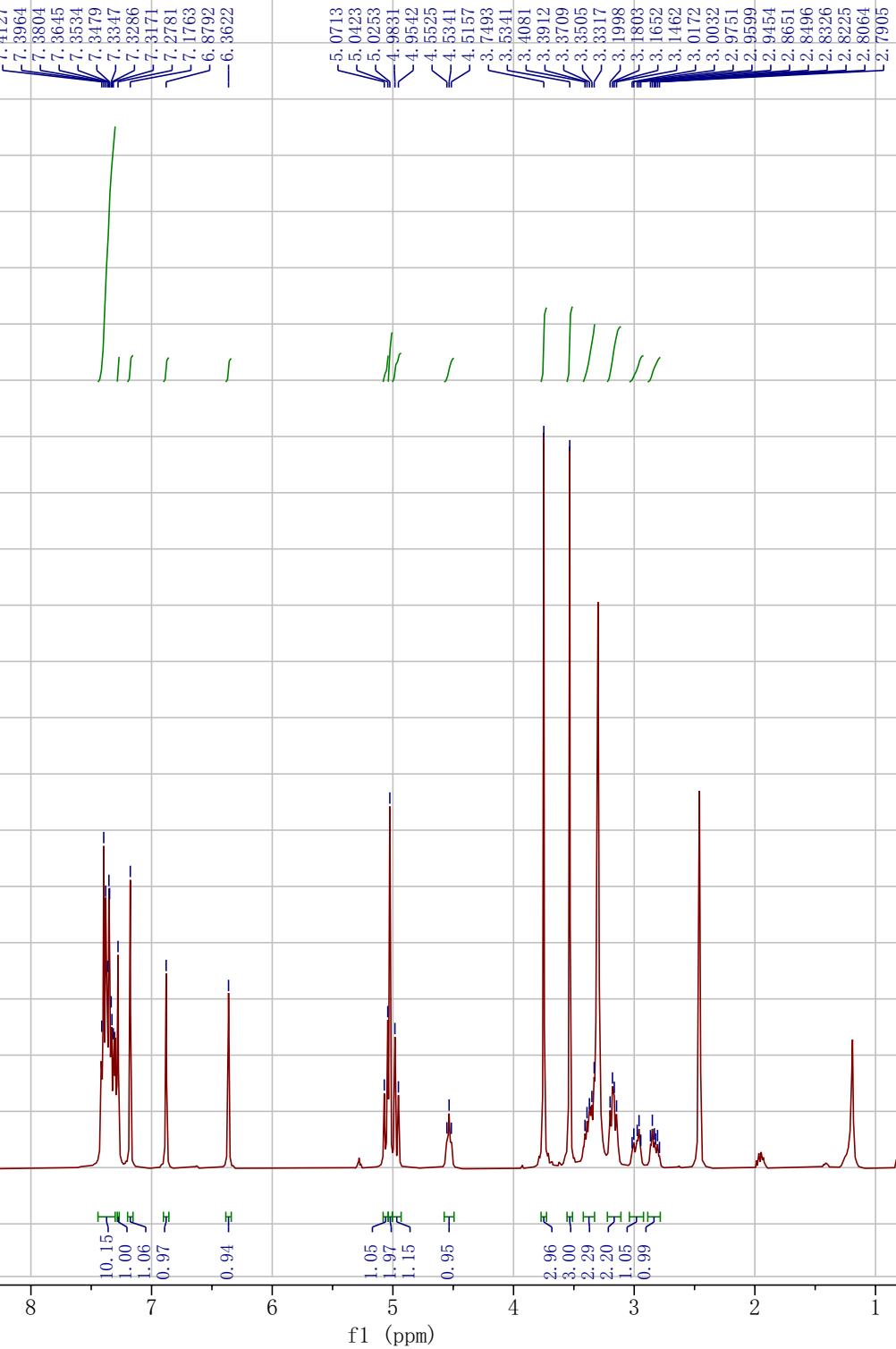


¹H NMR (400 MHz, DMSO-*D*₆)



12

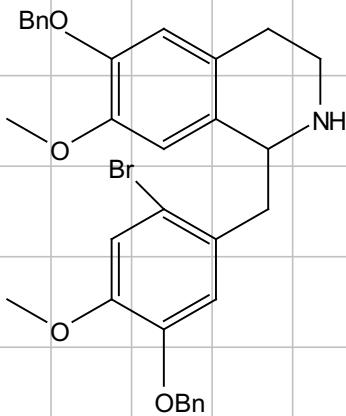
— 9.1613 —



f1 (ppm)

S20

¹³C NMR (100 MHz, DMSO-*D*₆)

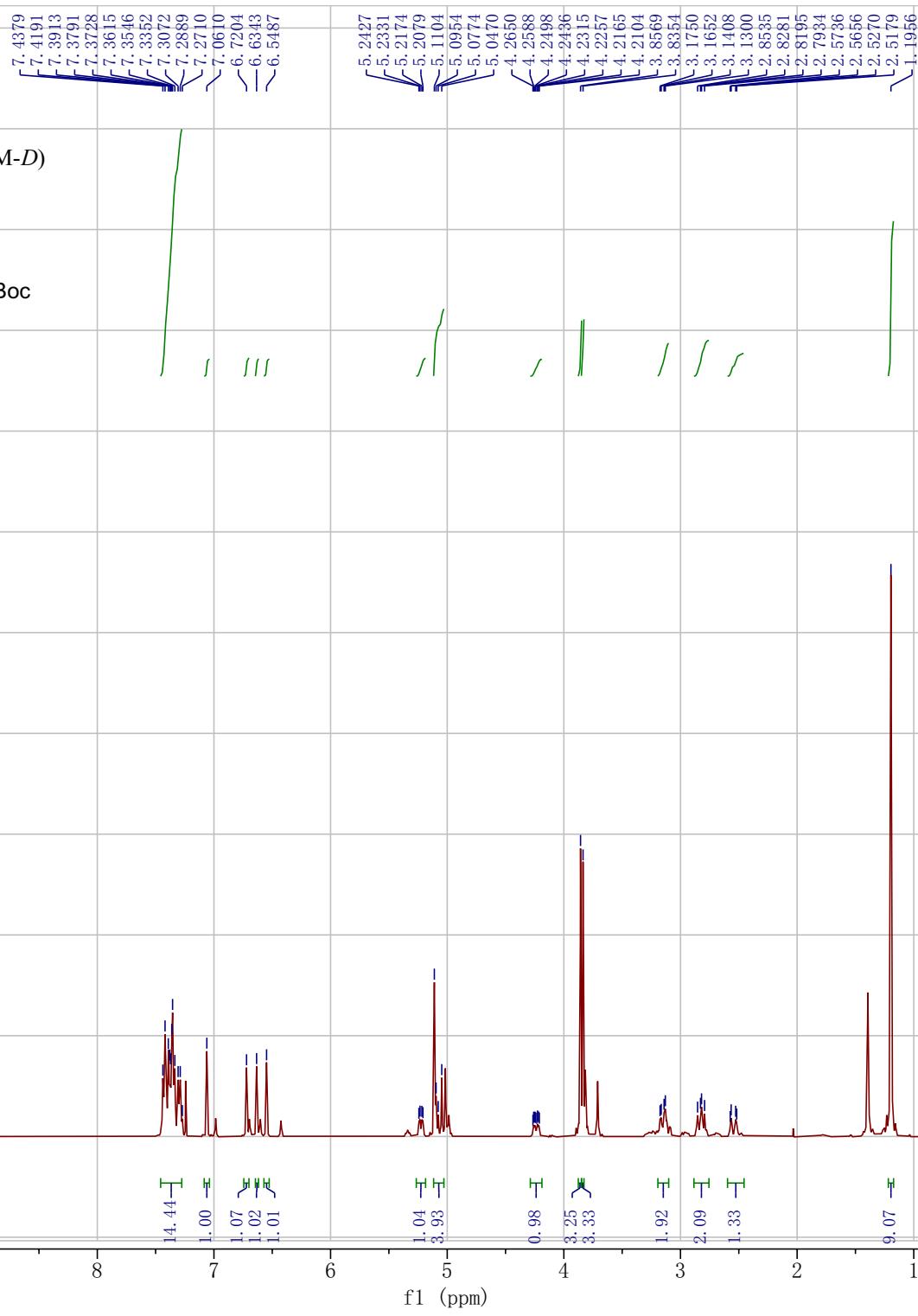
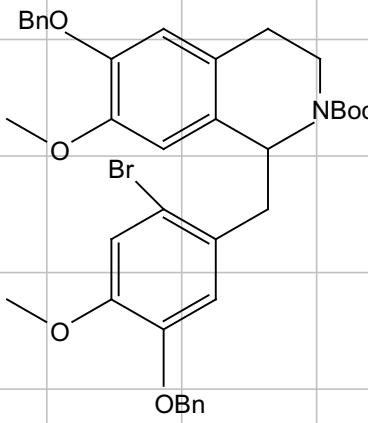


12

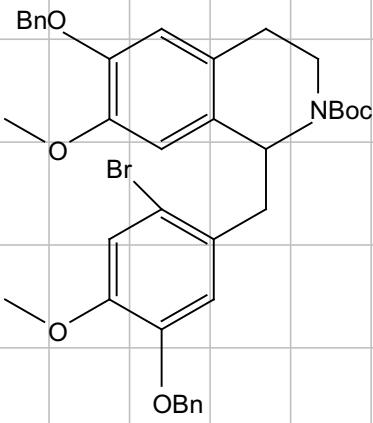


S21

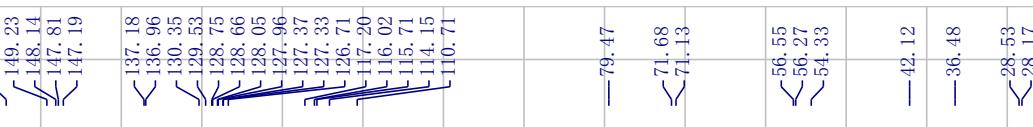
¹H NMR (400 MHz, CHLOROFORM-D)



¹³C NMR (100 MHz, CHLOROFORM-D)



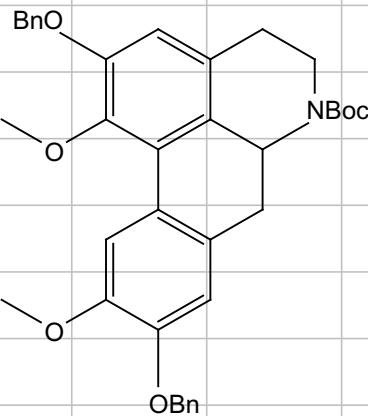
13



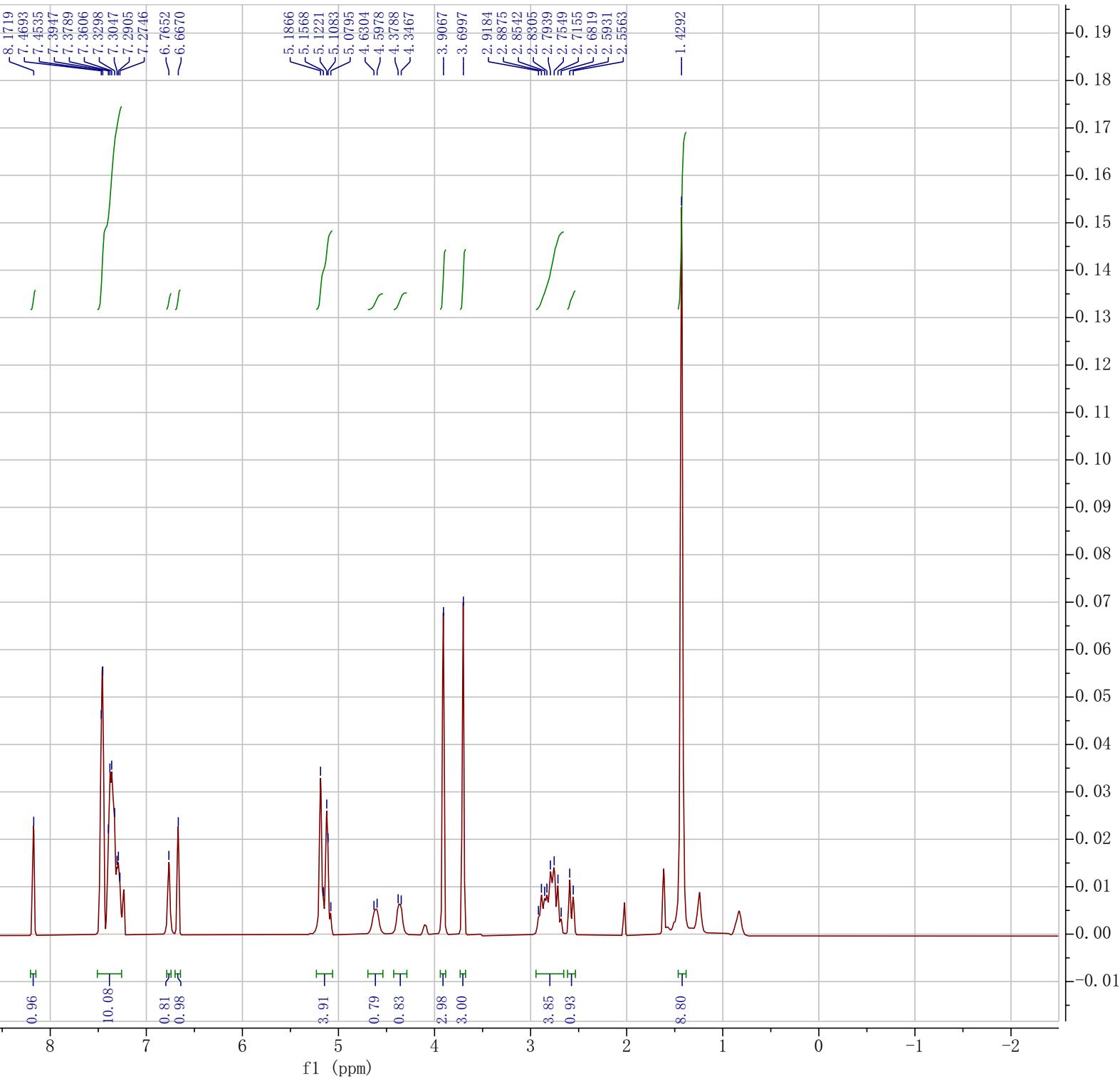
f1 (ppm)

S23

¹H NMR (400 MHz, CHLOROFORM-D)



14

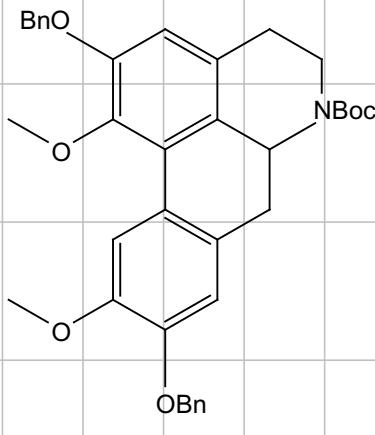


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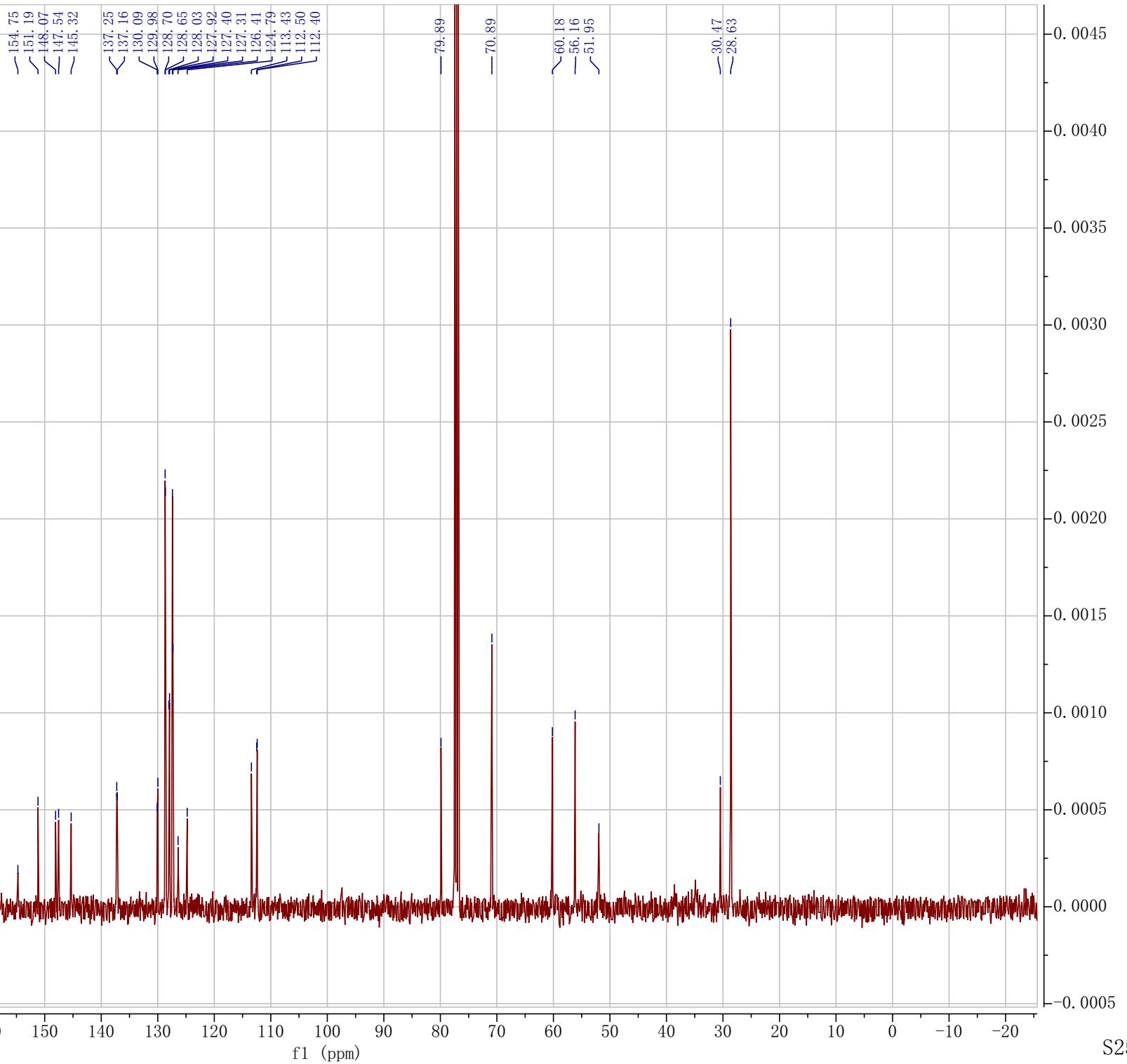
f1 (ppm)

S24

^{13}C NMR (100 MHz, CHLOROFORM-*D*)

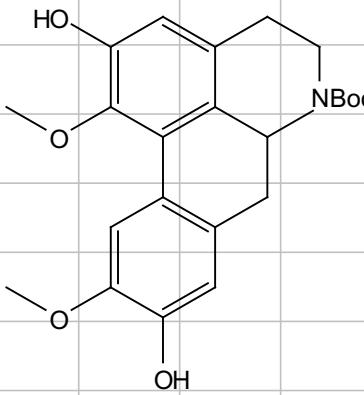


14

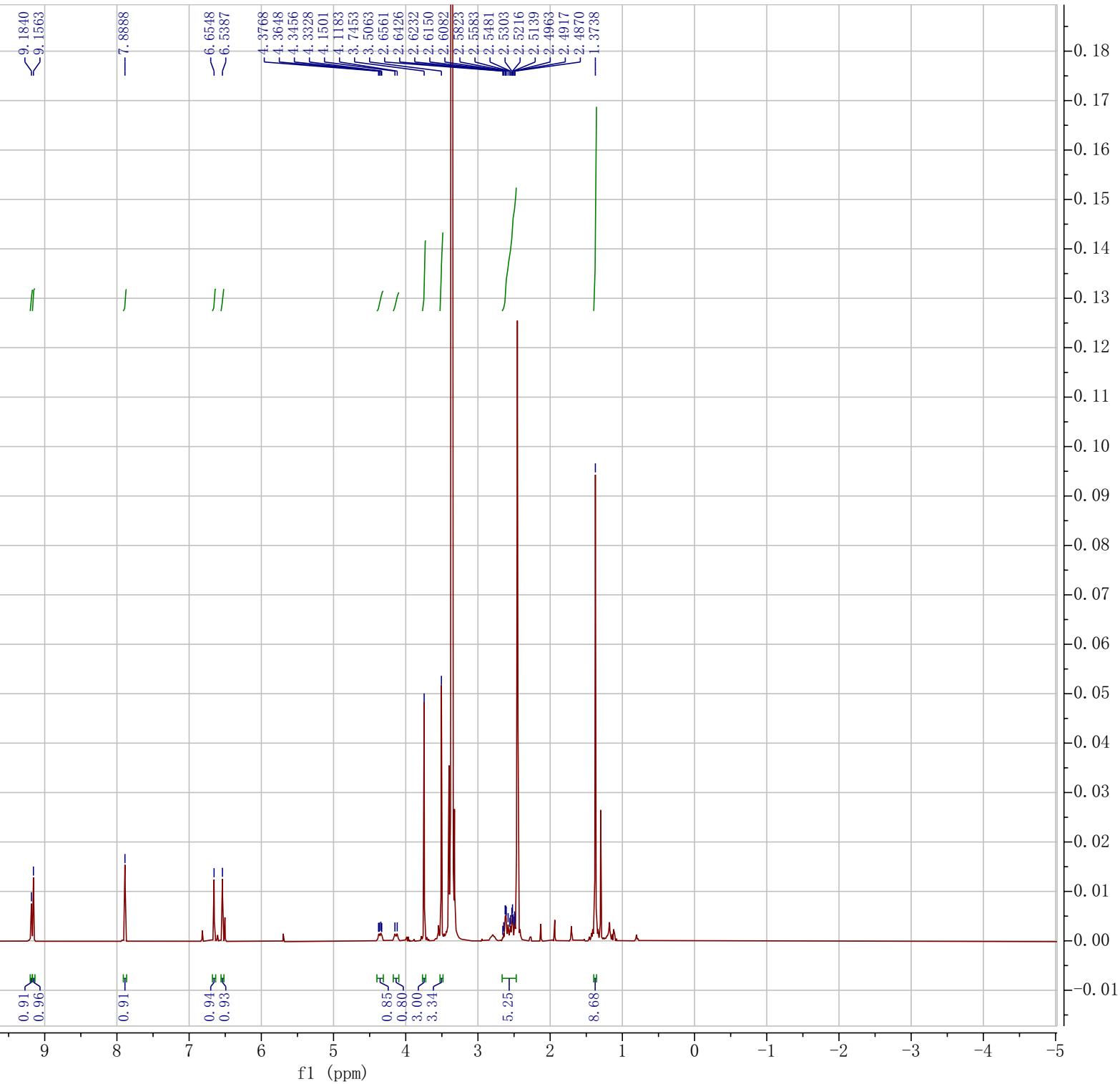


S25

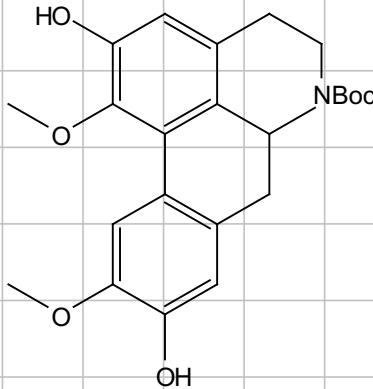
¹H NMR (400 MHz, DMSO-*D*₆)



15



¹³C NMR (100 MHz, DMSO-*D*₆)



15

154.17
149.84
146.58
143.65

130.39
130.28
127.43
123.82
123.01

115.68
114.98
112.55

-79.48

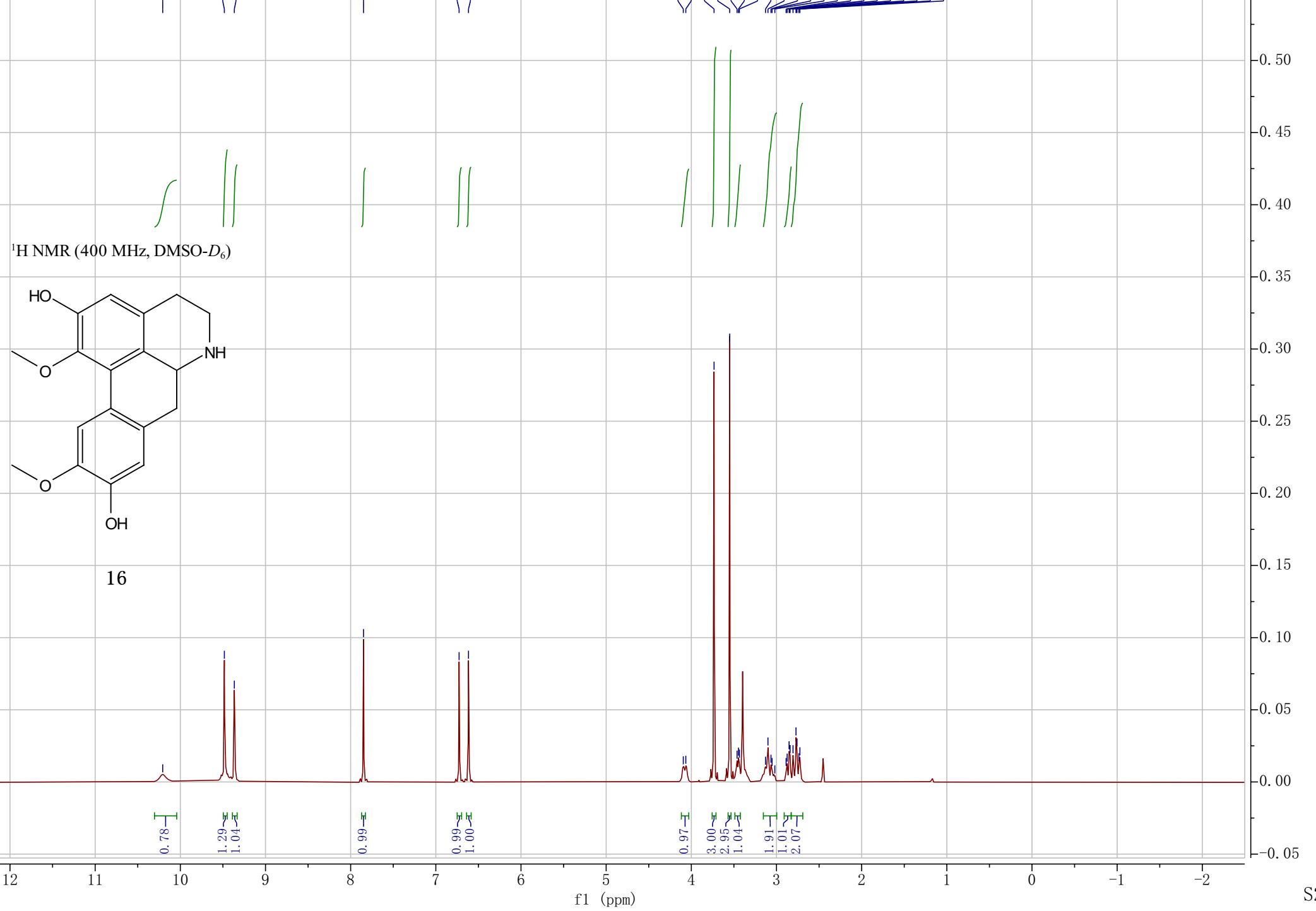
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59.61
56.34
56.10

30.02
28.63
28.22
25.64

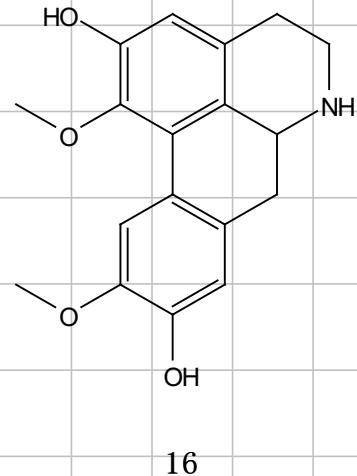
220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10 -20

f1 (ppm)

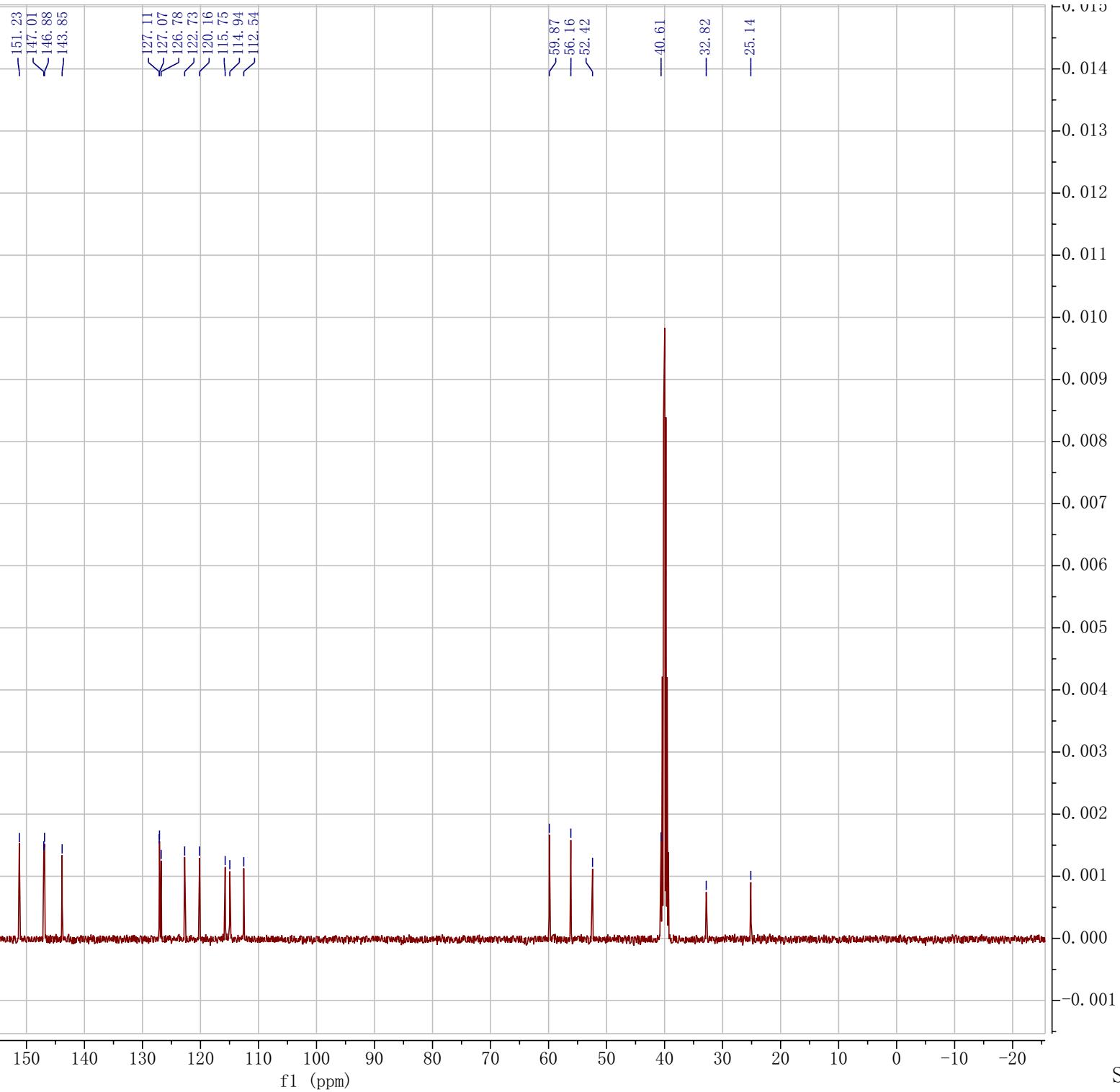
S27



¹³C NMR (100 MHz, DMSO-*D*₆)



16



S29