

Supplementary content

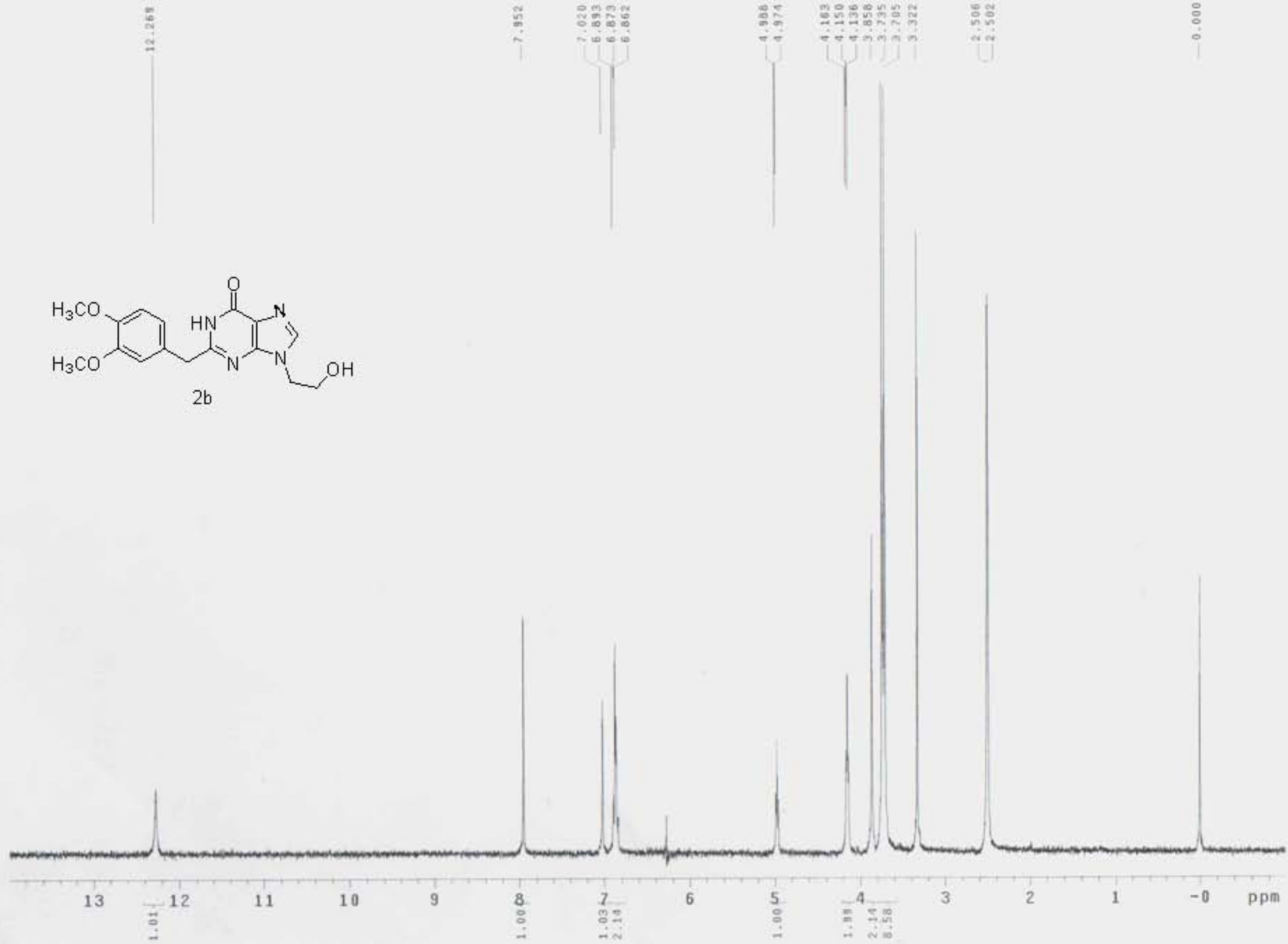
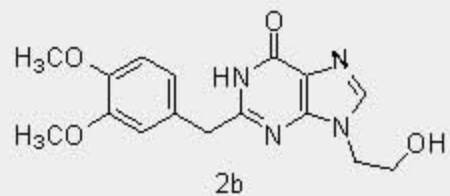
Purin-6-One Derivatives as Phosphodiesterase-2 Inhibitors

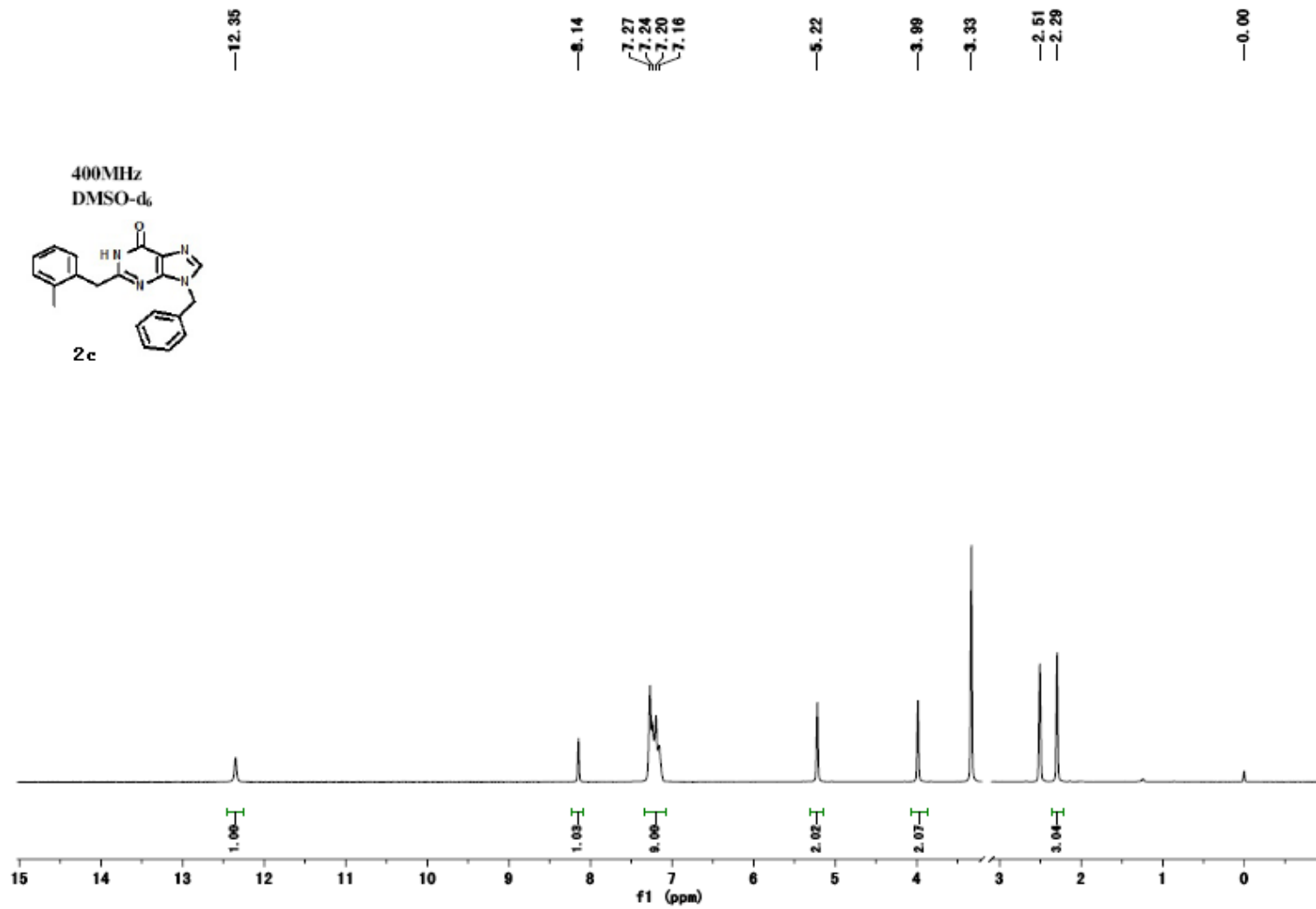
Wei Yuan,^a Xin-Yun Zhao,^{a,*} Xi Chen,^{a,*} and Chang-Guo Zhan^b

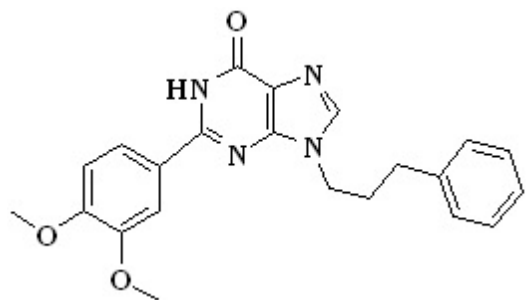
^a *College of Chemistry and Materials Science, South-Central University for Nationalities, Wuhan, 430074, P. R. China*

^b *Department of Pharmaceutical Sciences, College of Pharmacy, University of Kentucky, 789 S. Limestone, Lexington, KY, 40536, USA*

The supporting information provides the ¹H NMR and ¹³C NMR Spectra of target molecules **2b-2s** :

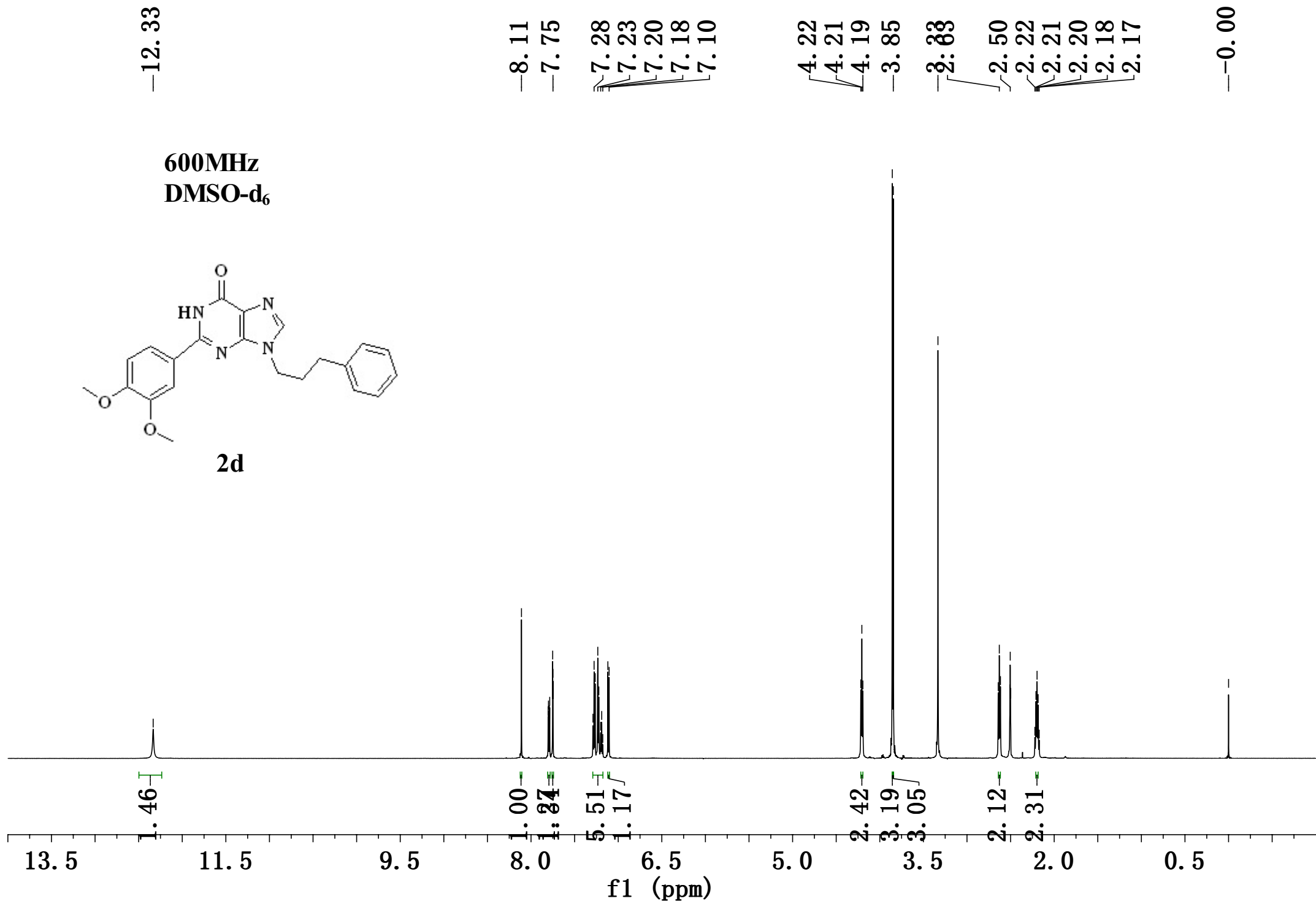




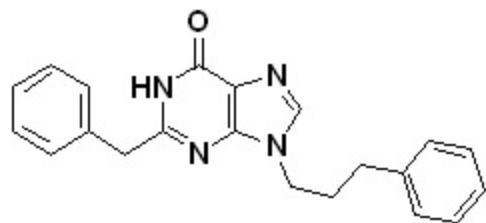


2d

600MHz
DMSO-d₆



600MHz
DMSO-d₆



2e

-12.38

8.04

7.24

7.23

7.19

7.17

7.16

7.15

4.13

4.12

4.11

3.96

3.34

2.54

2.50

2.11

2.10

2.09

2.08

-0.00

1.10

1.00

10.20

2.38

2.31

2.32

2.32

13.0

11.0

9.0

7.5

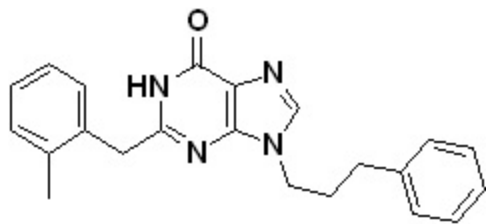
f1 (ppm)

4.5

3.0

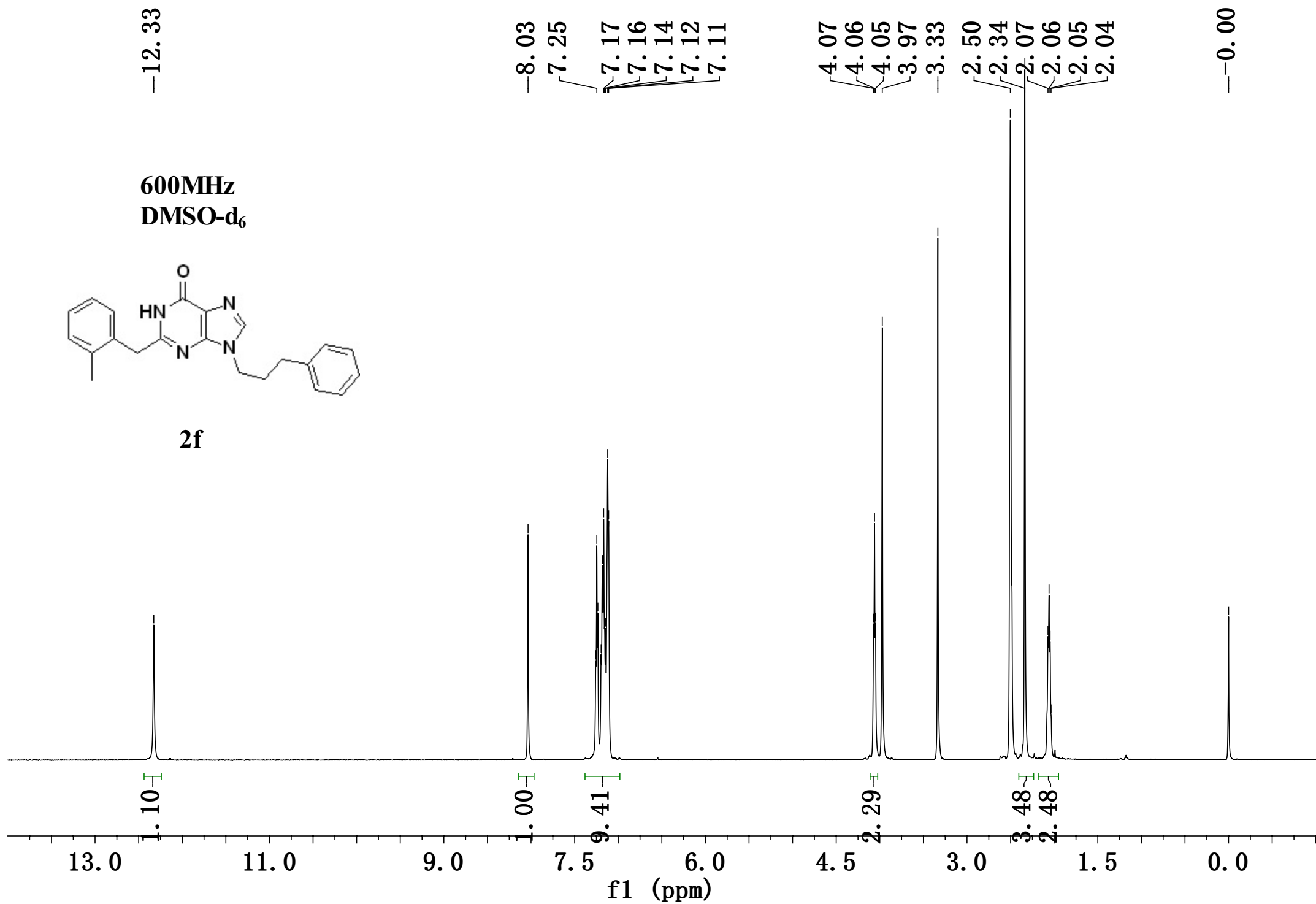
1.5

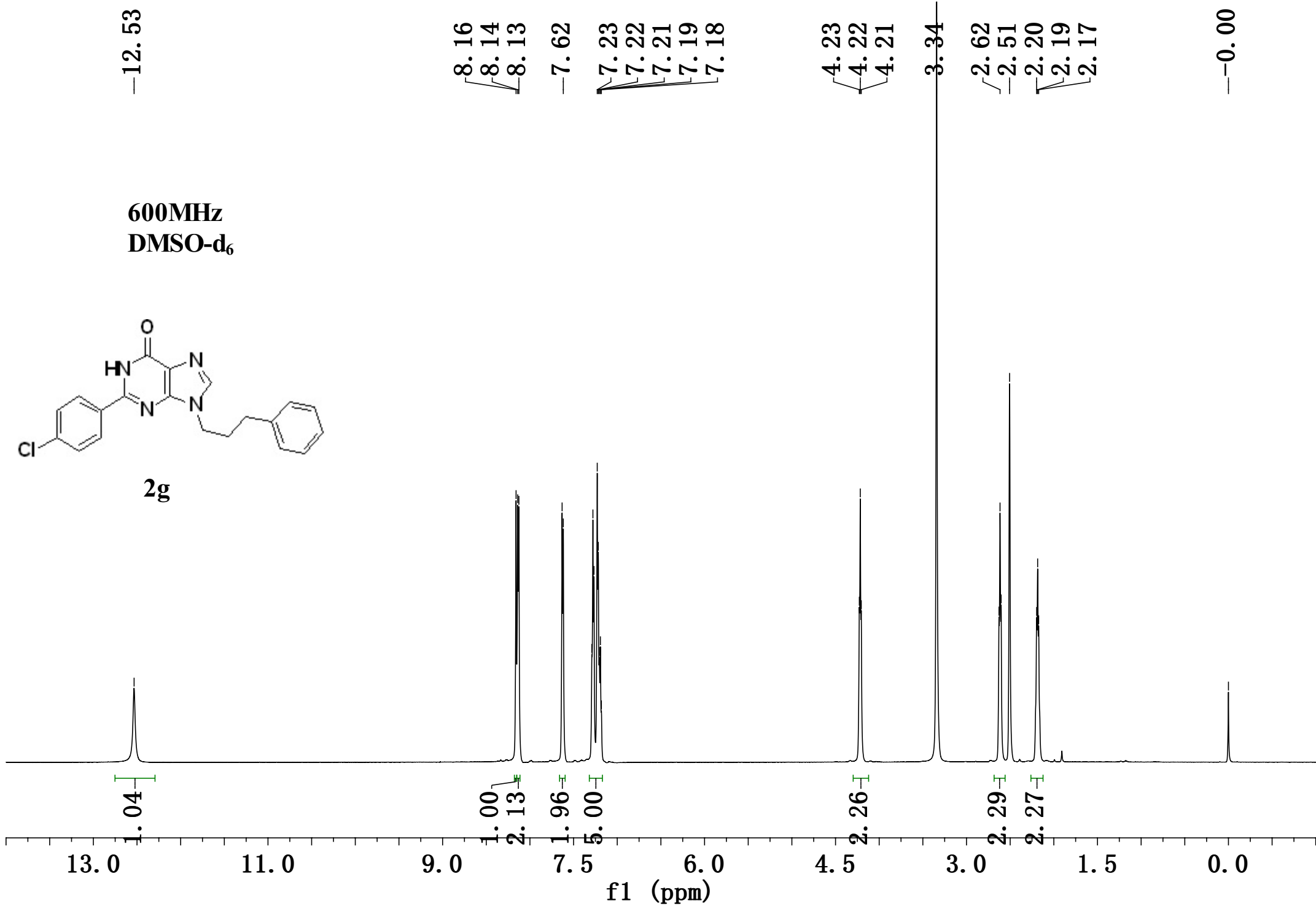
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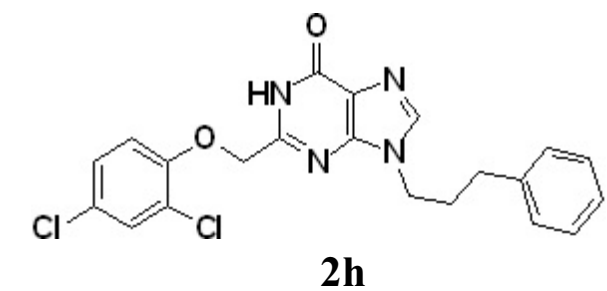


2f

600MHz
DMSO-d₆







600MHz
DMSO-d₆

-12.51

-8.11

-7.58

-7.26

-7.25

-7.17

-7.13

-5.14

-4.13

-4.11

-4.10

-3.30

-2.50

-2.48

-2.05

-2.04

-2.03

--0.00

1.10

1.00

0.73

7.35

2.37

2.39

2.45

2.41

13.0

11.0

9.0

7.5

6.0

4.5

3.0

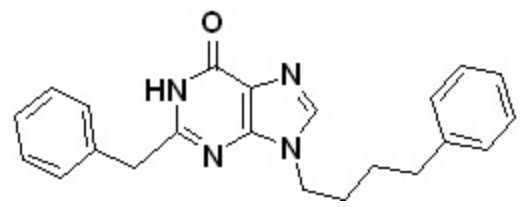
1.5

0.0

f1 (ppm)

-12.38

DMSO-d₆
600MHz



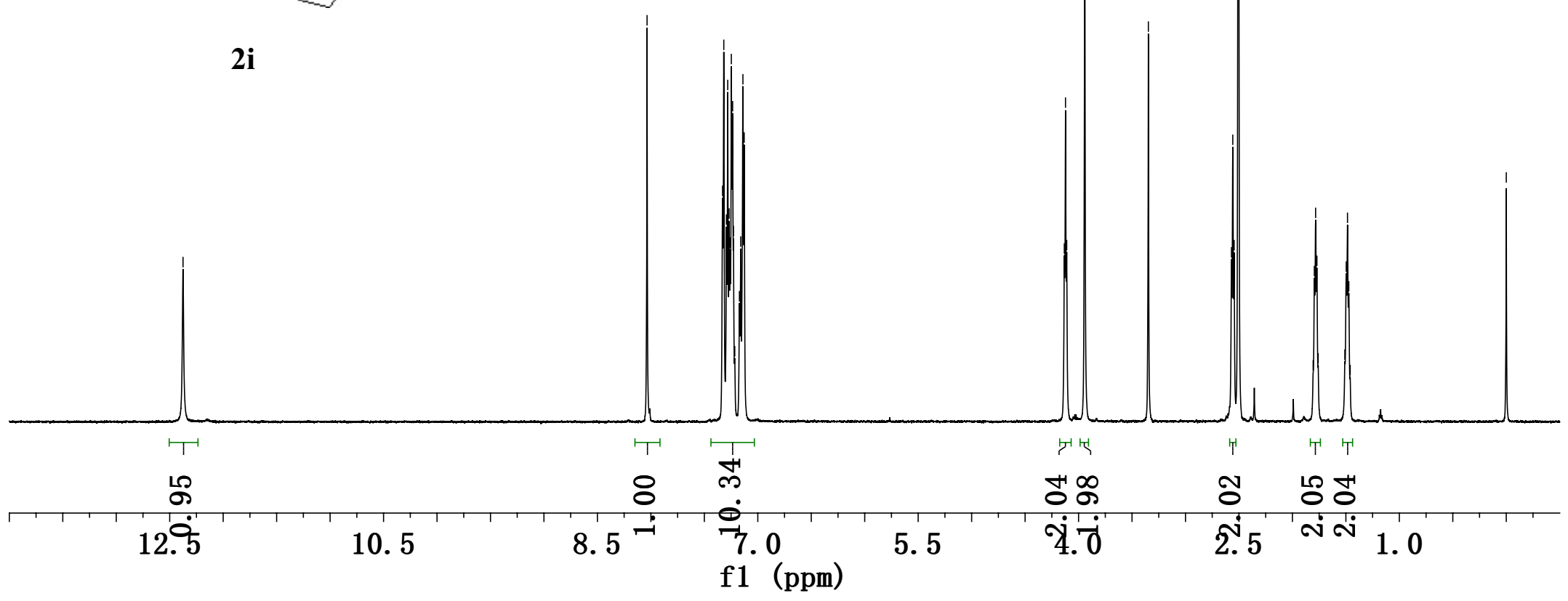
2i

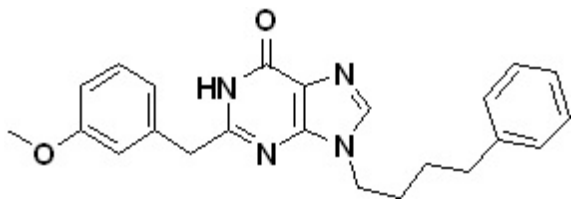
-8.04
7.32
7.28
7.26
7.24
7.22
7.16
7.13

4.13
4.12
4.11
3.94
-3.35

2.56
2.55
2.51
1.79
1.77
1.51
1.48
1.46

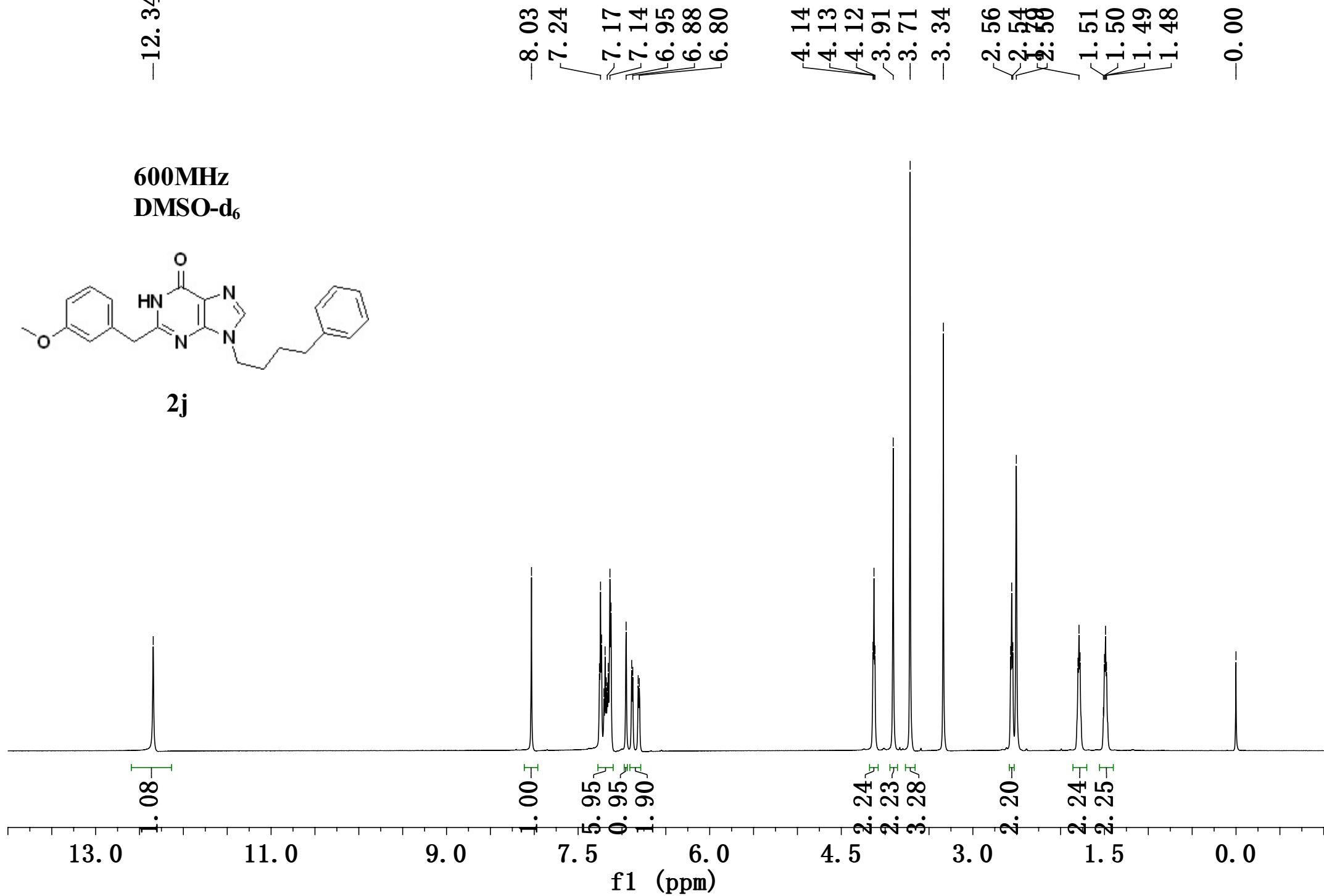
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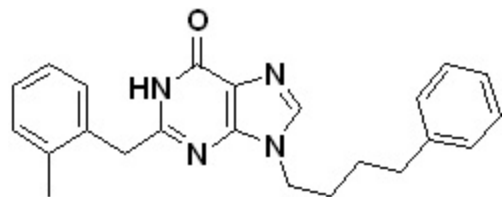




2j

600MHz
DMSO-d₆





2k

600MHz
DMSO-d₆

-12.31

-8.02

7.24

7.17

7.15

7.13

7.11

7.10

4.07

4.06

4.05

3.96

3.33

2.50

2.32

1.74

1.45

1.43

1.42

-0.00

1.07

1.00

9.22

2.20

2.18

3.36

2.36

2.31

13.5

11.5

9.5

8.0

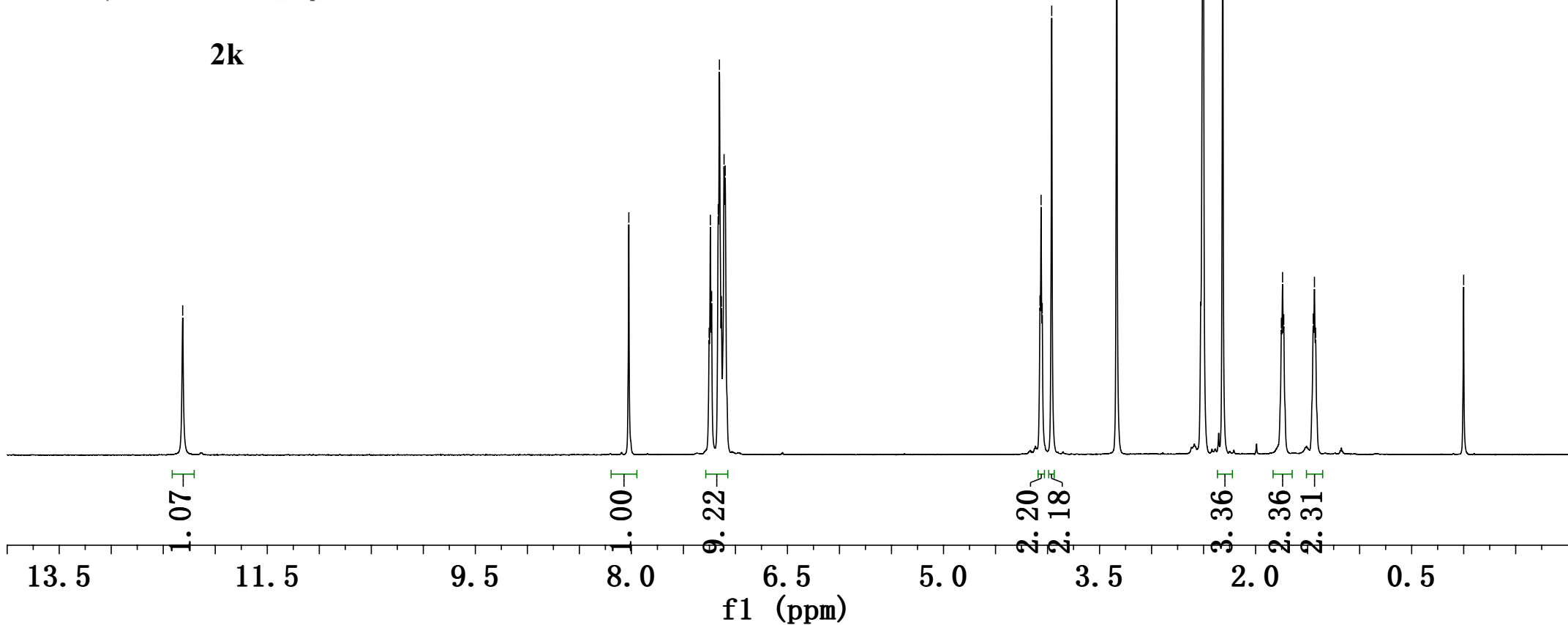
f1 (ppm)

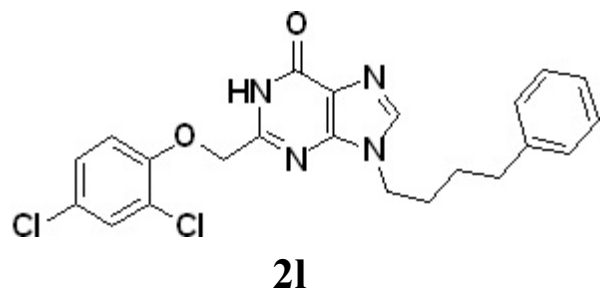
5.0

3.5

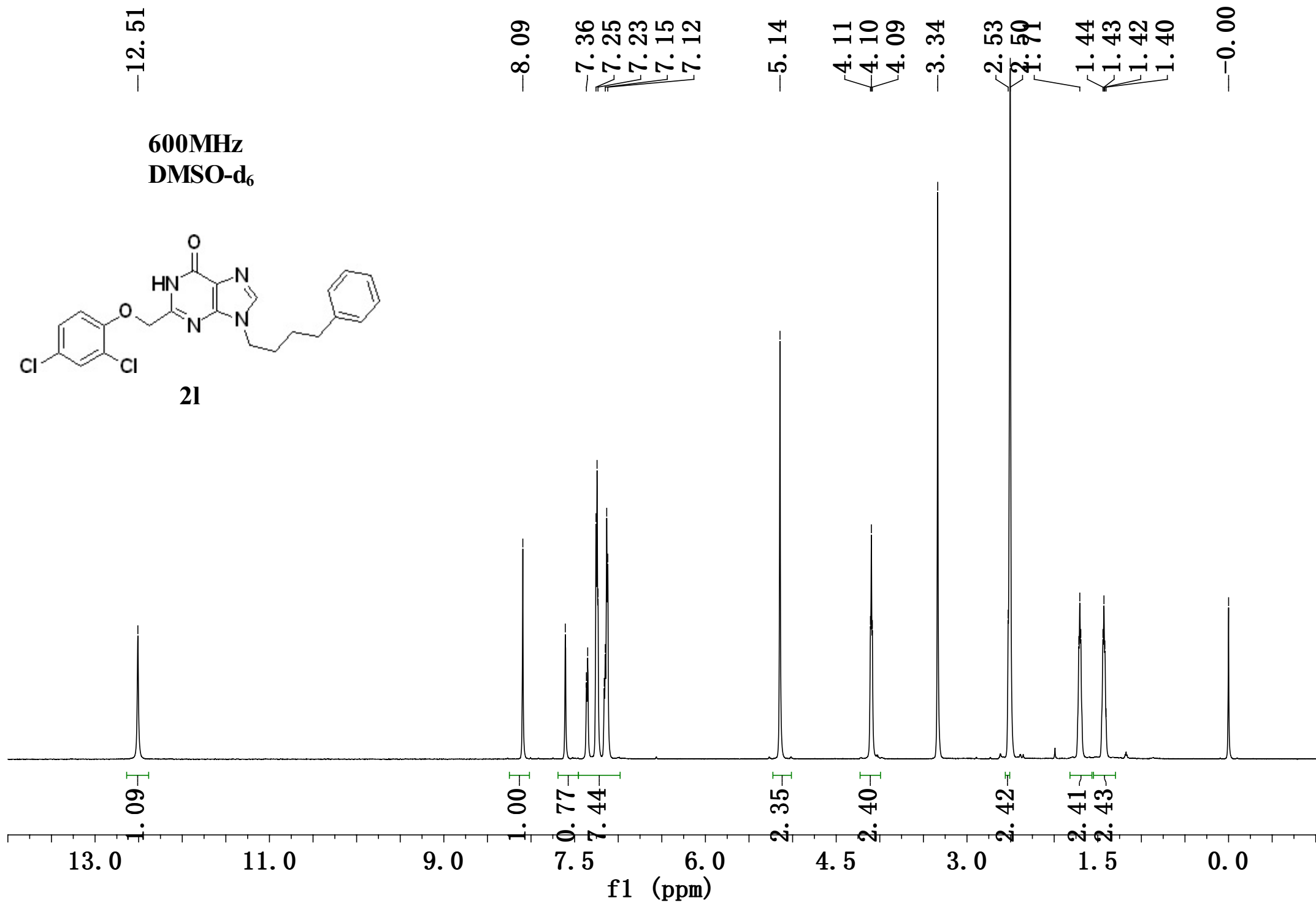
2.0

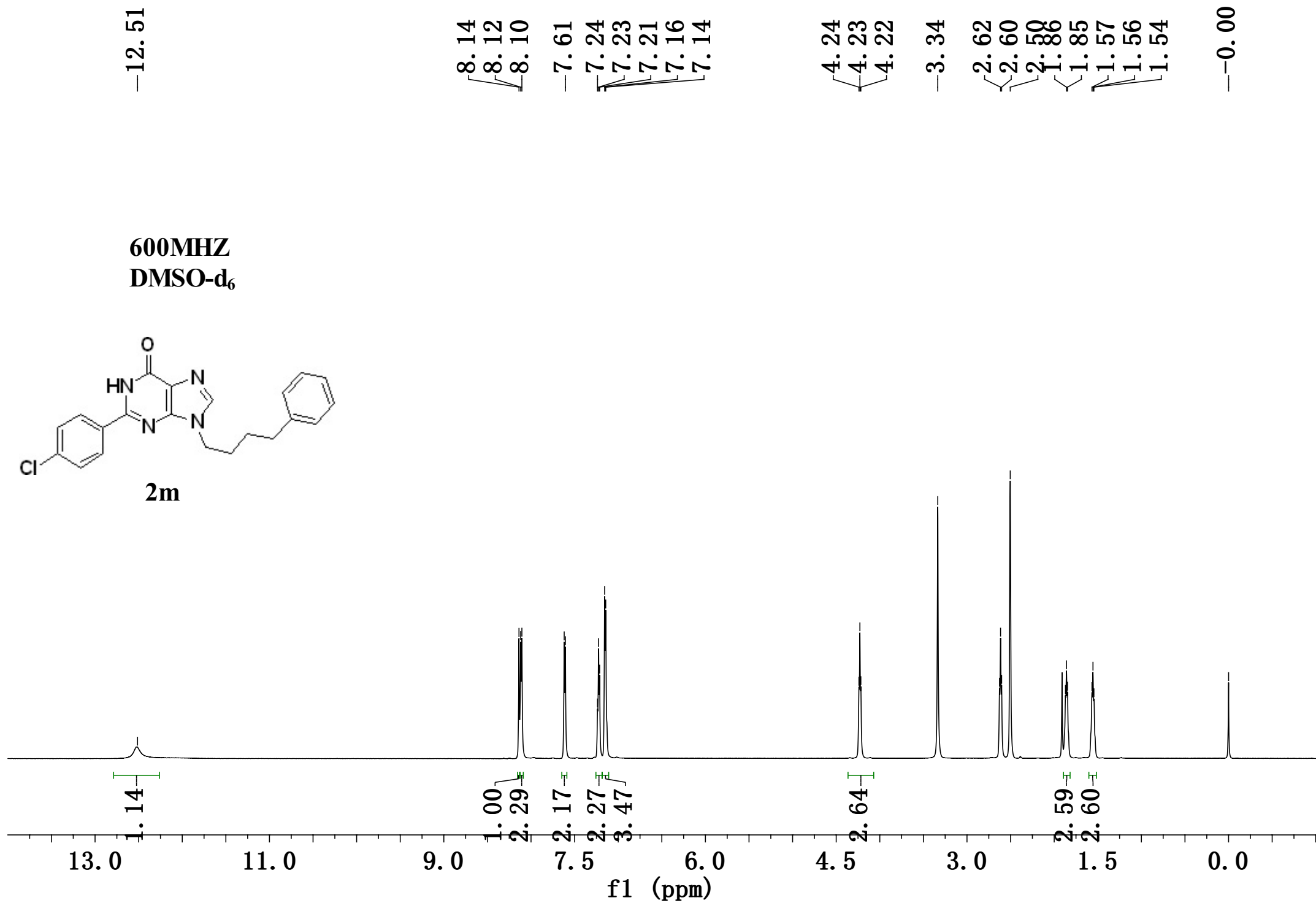
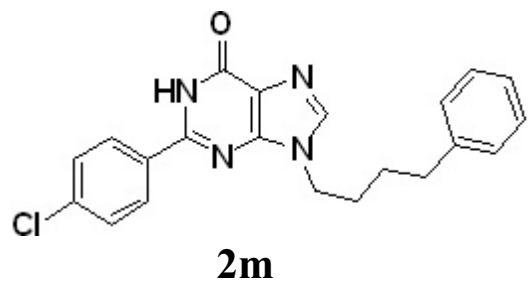
0.5



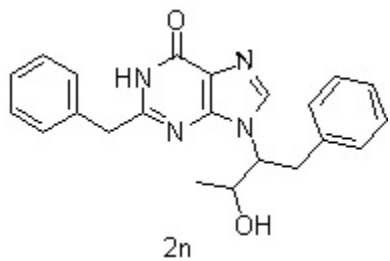


600MHz
DMSO-d₆





-12.49

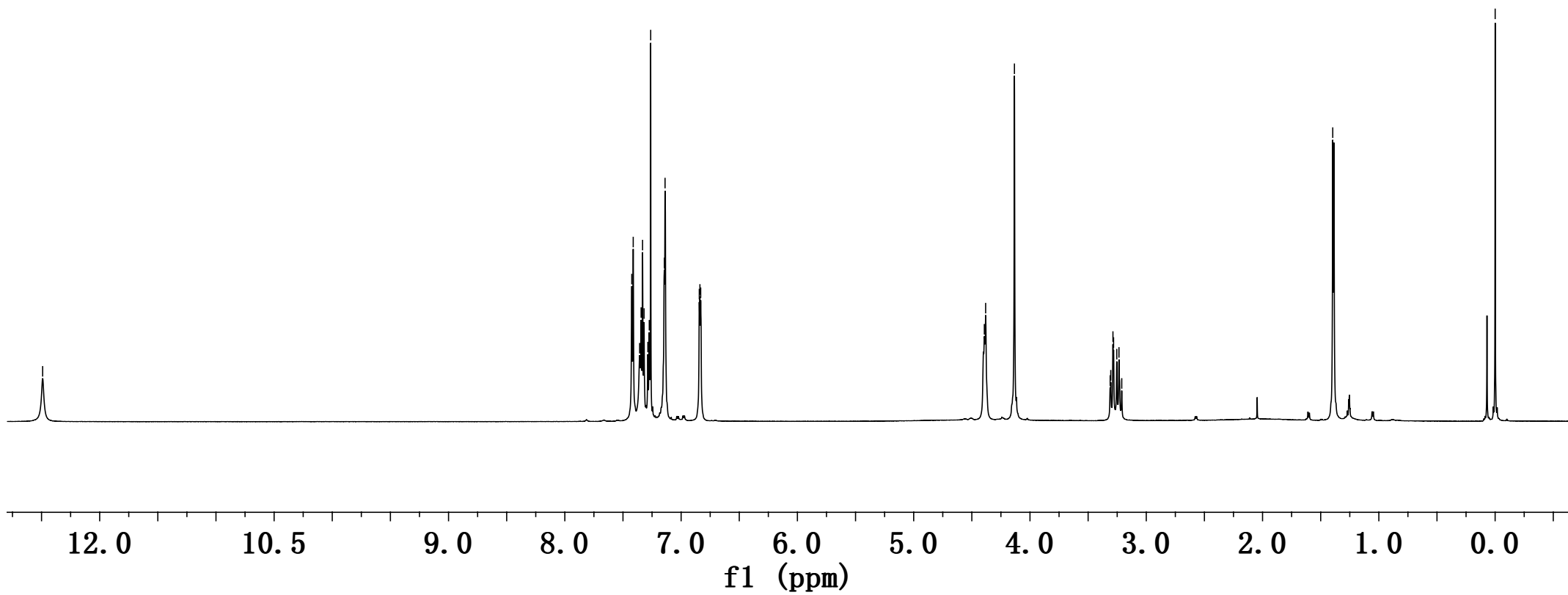


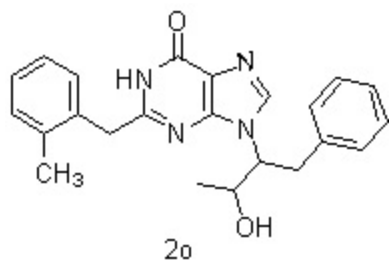
7.42
7.41
7.36
7.34
7.33
7.32
7.29
7.27
7.26
7.14
7.14
6.84
6.84
6.83

4.39
4.38
4.13
3.31
3.29
3.28
3.25
3.23
3.21

-1.40

--0.00





-12.24

-7.99

7.17

7.14

7.08

7.05

6.98

6.88

-5.29

-4.42

-3.91

3.22

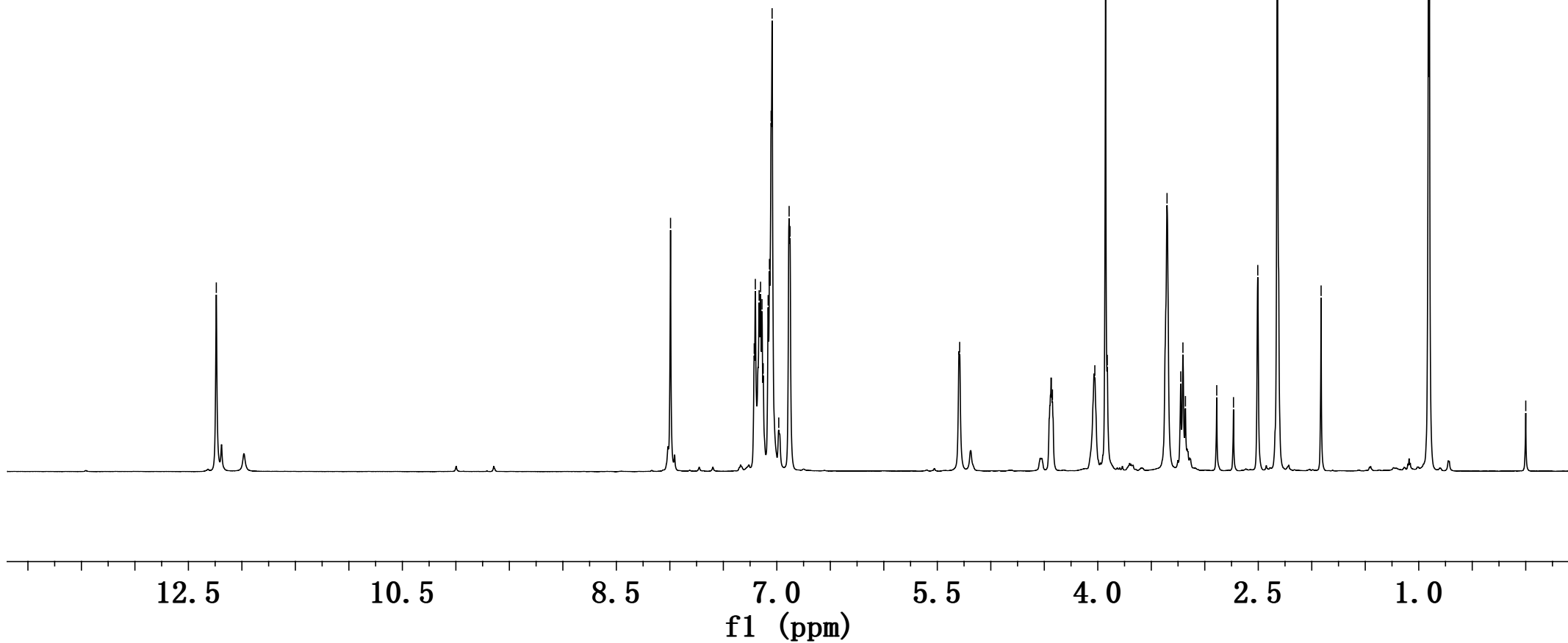
3.18

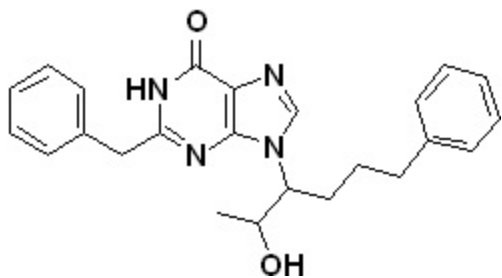
2.73

2.32

-1.91

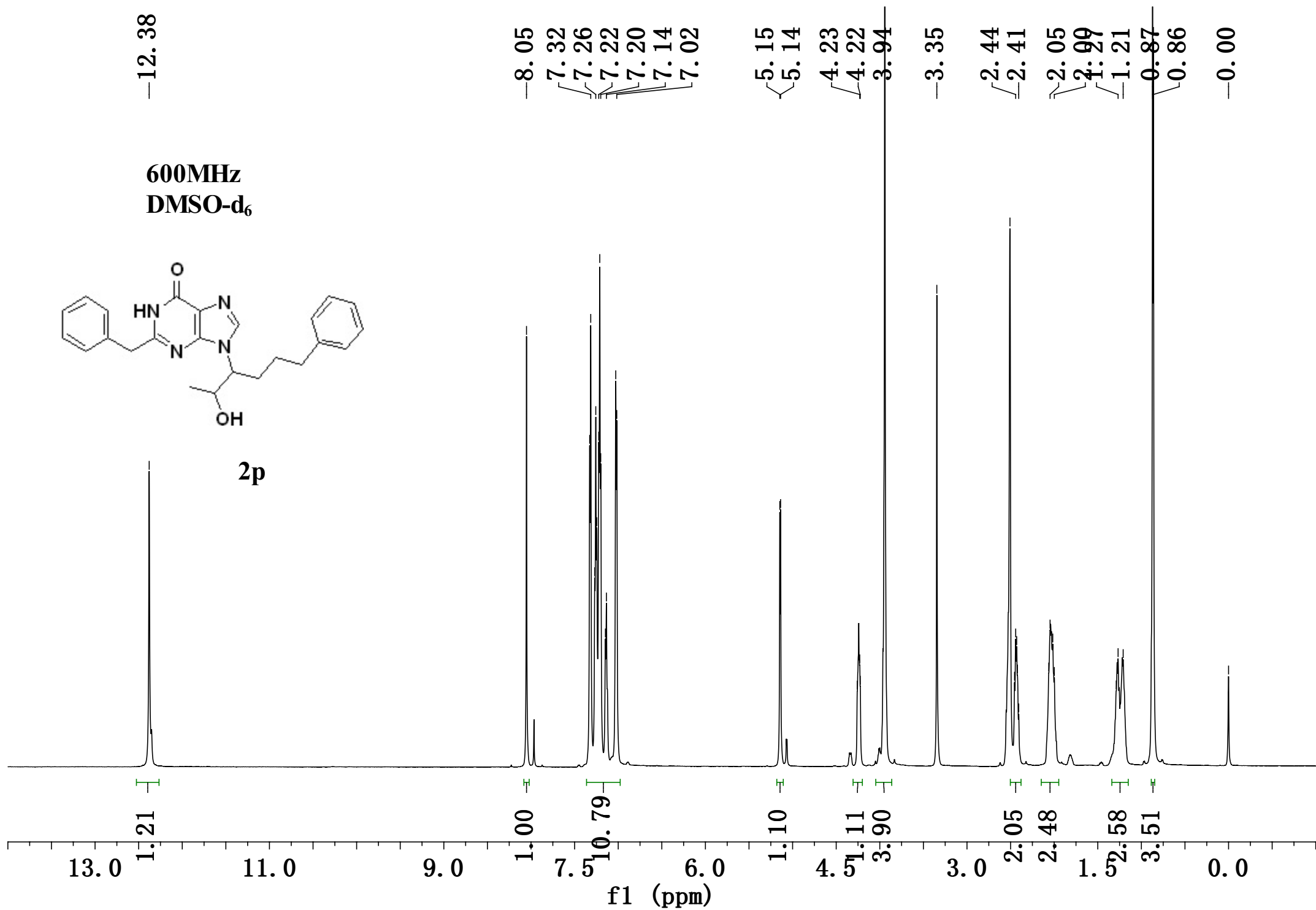
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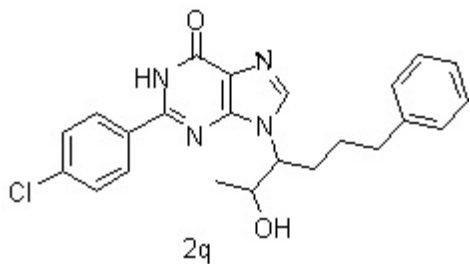




2p

600MHz
DMSO-d₆





-12.54

8.16
8.13
8.12
8.11
8.07

-7.61

7.17
7.09
7.05

5.20
5.19
5.10
4.39
4.08
4.02
3.35

-3.17

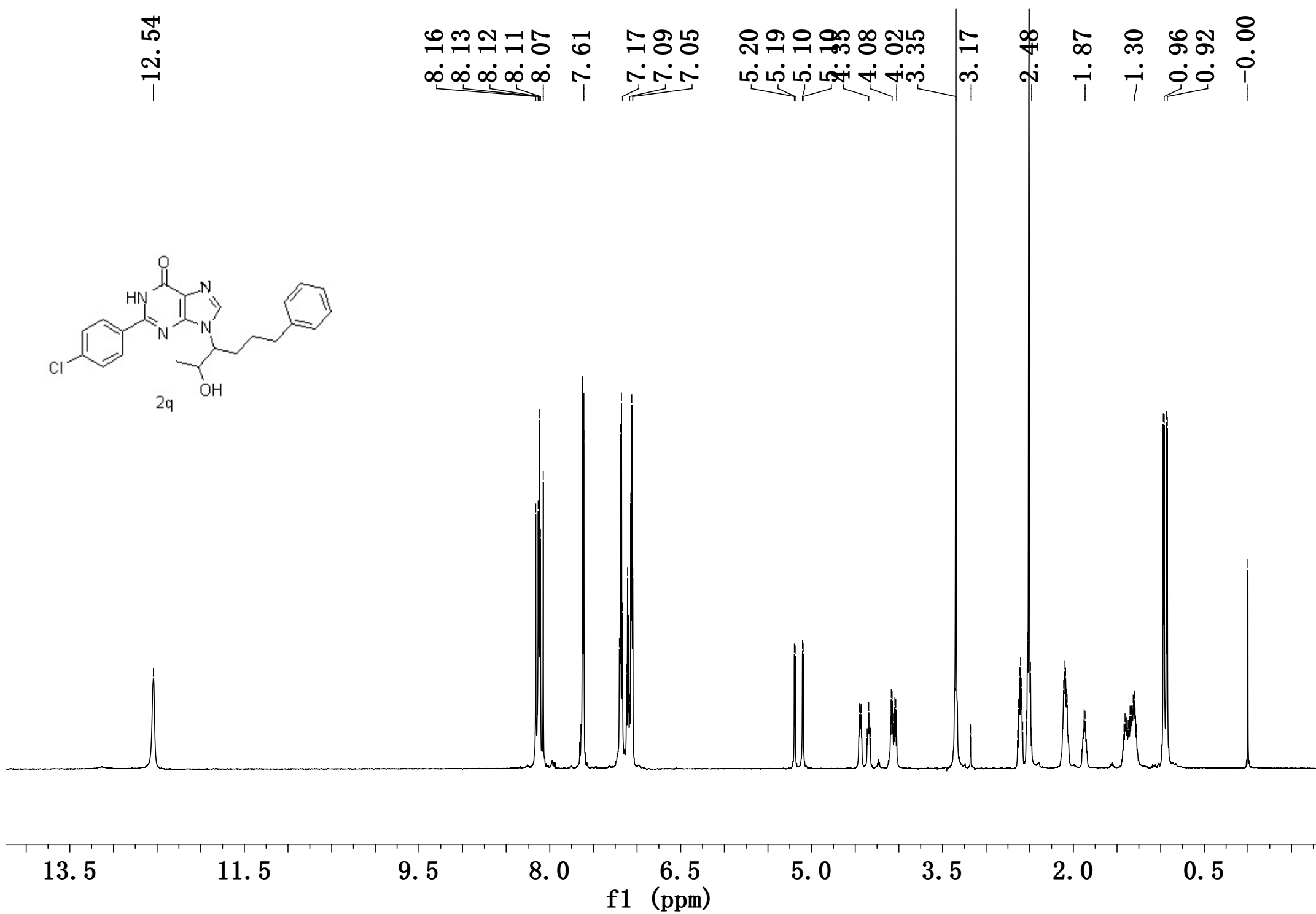
-2.48

-1.87

-1.30

0.96
0.92

-0.00



-13.00

-7.73
-7.38

-7.16
-6.98
-6.96

-5.41
-5.39
-5.38
-5.37

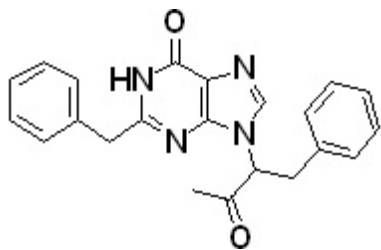
-4.08

-3.57
-3.54
-3.30
-3.26

-2.15

-0.00

400MHz
CDCl₃



2r

0.91

1.00

1.96

1.45

1.14

2.89

1.90

0.97

2.04

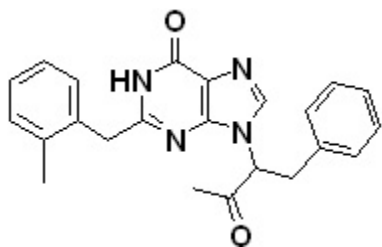
1.00

0.96

3.37

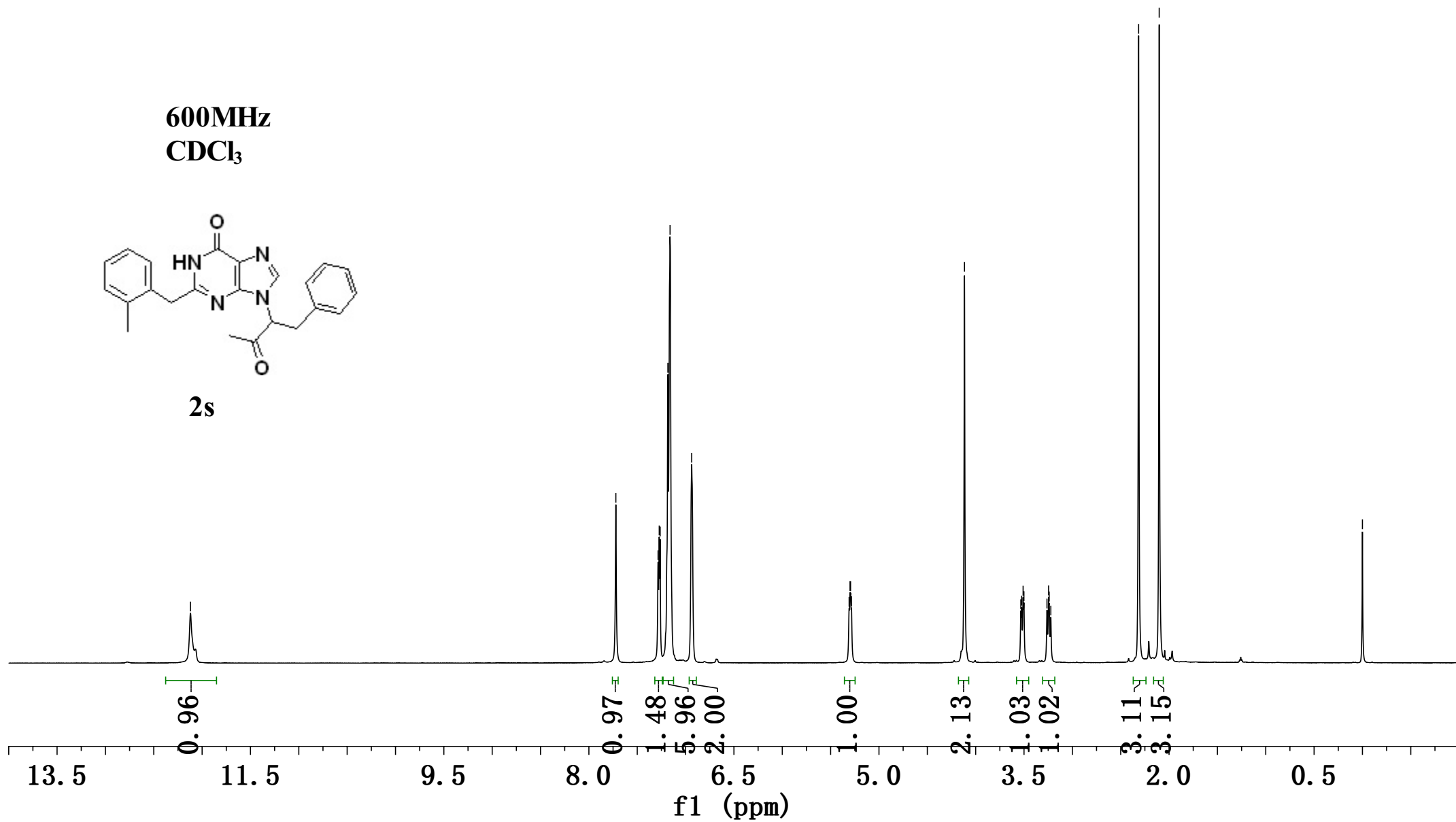
12.5 11.0 9.5 8.0 6.5 5.0 3.5 2.0 0.5

f1 (ppm)



600MHz
CDCl₃

2s



157.82
157.25

149.36
149.06
148.25

141.11

129.36

122.43
121.18

113.14
112.32

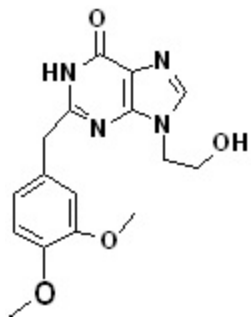
59.85

56.03
55.95
55.85

46.49

39.93
39.72

100MHz
DMSO-d₆



2b



155

145

135

125

115

105

95

90

85

80

75

70

65

60

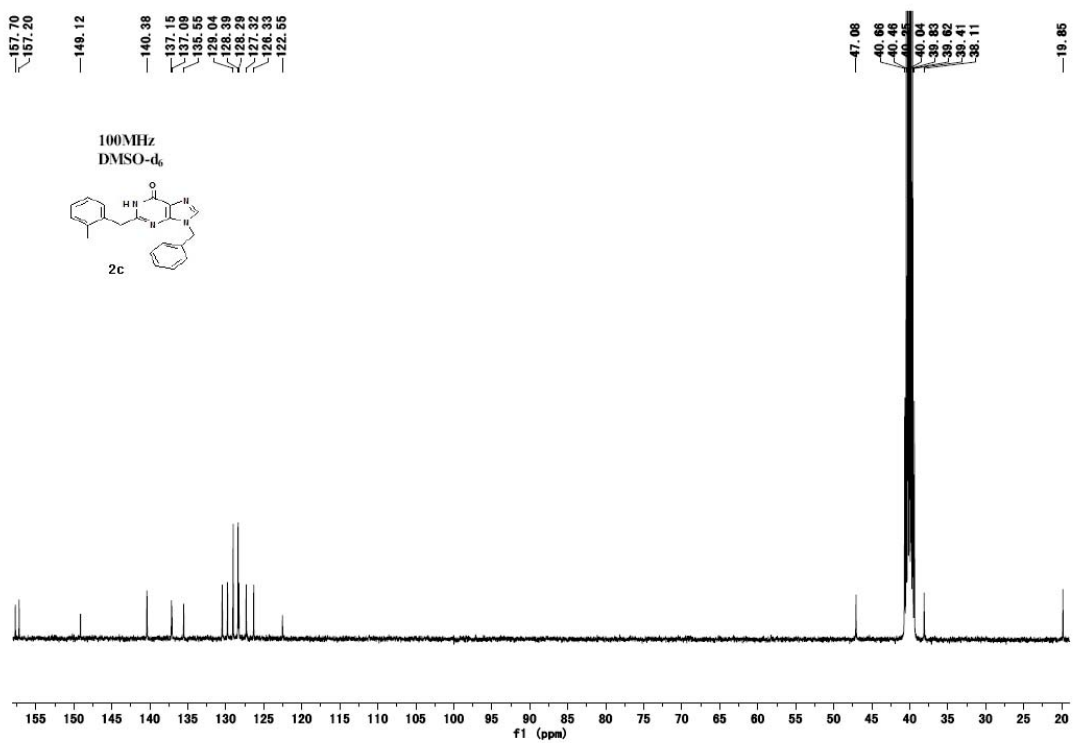
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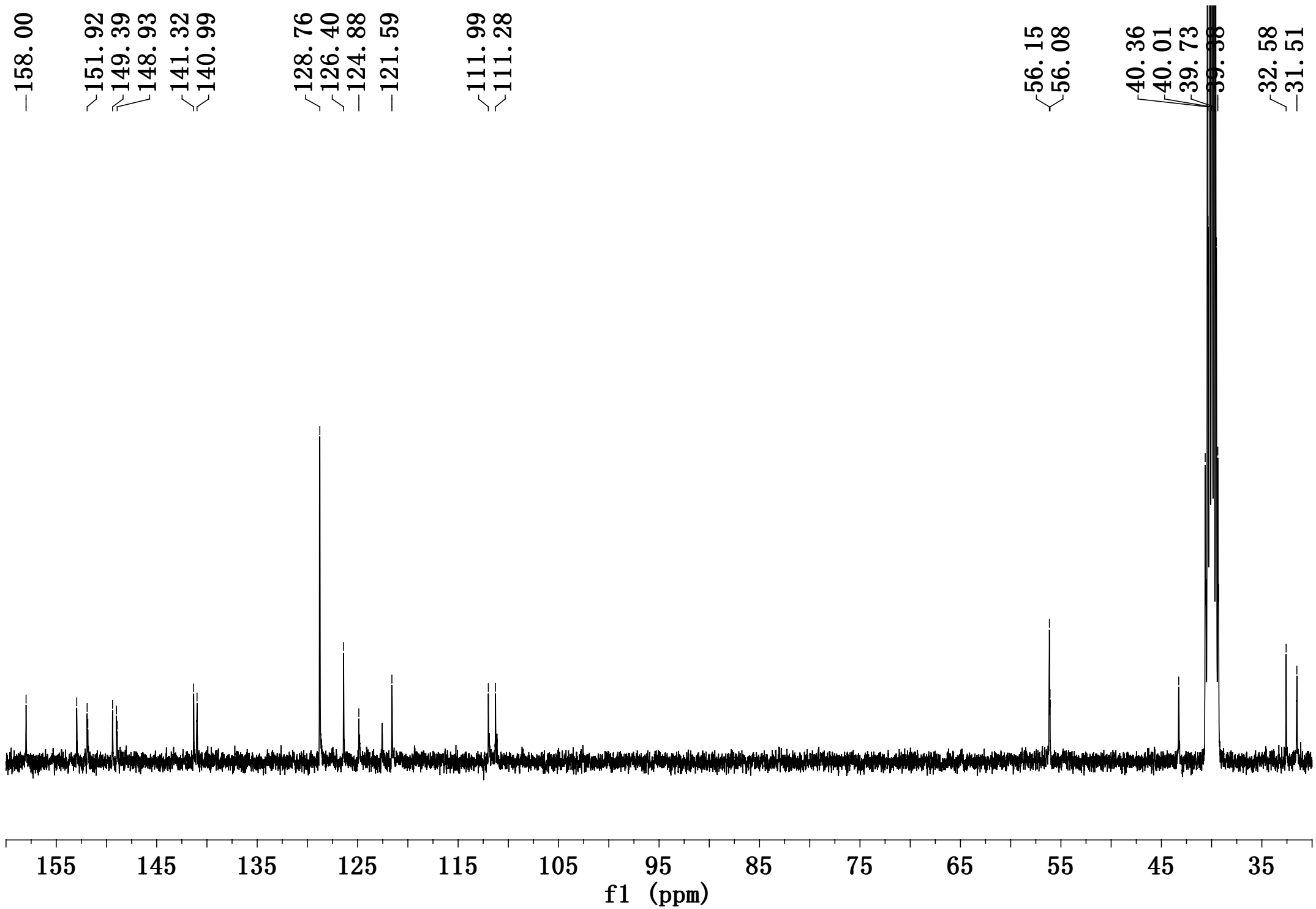
50

45

40

f1 (ppm)





157.79
156.98

149.33

141.27
140.57

137.15
129.19

128.66
126.35

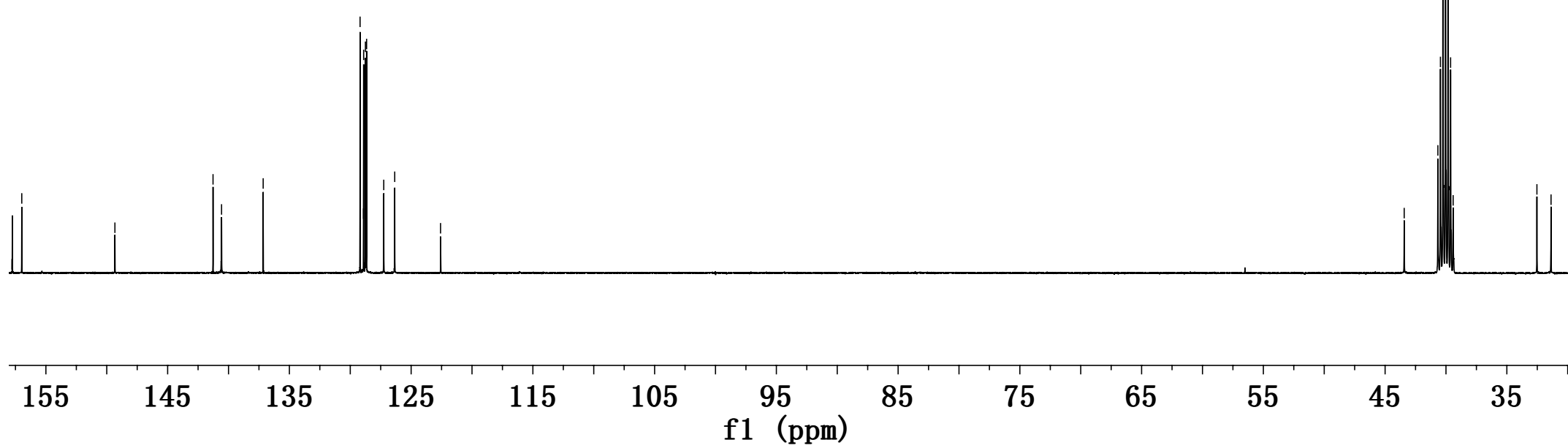
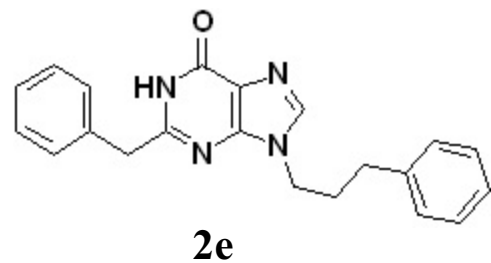
122.58

43.43

40.04
39.41

32.53
31.37

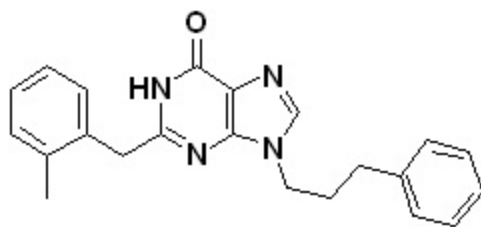
100MHz
DMSO-d₆



157.79
156.86
149.29
141.22
140.57
135.70
128.76
126.35
122.56

43.46
40.65
40.44
40.23
40.02
39.81
39.60
39.39
38.16
32.54
31.32
19.92

100MHz
DMSO-d₆



2f

