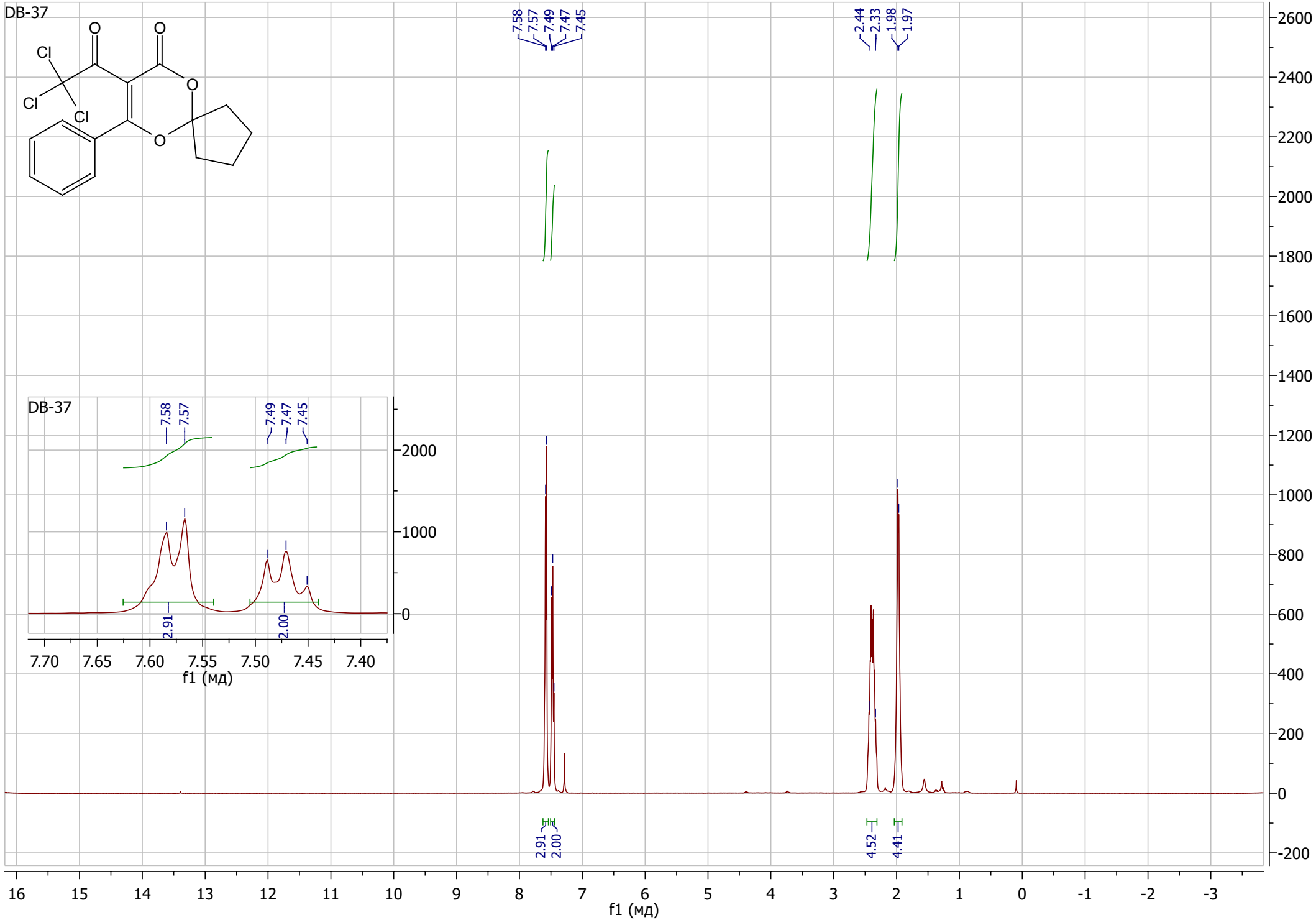


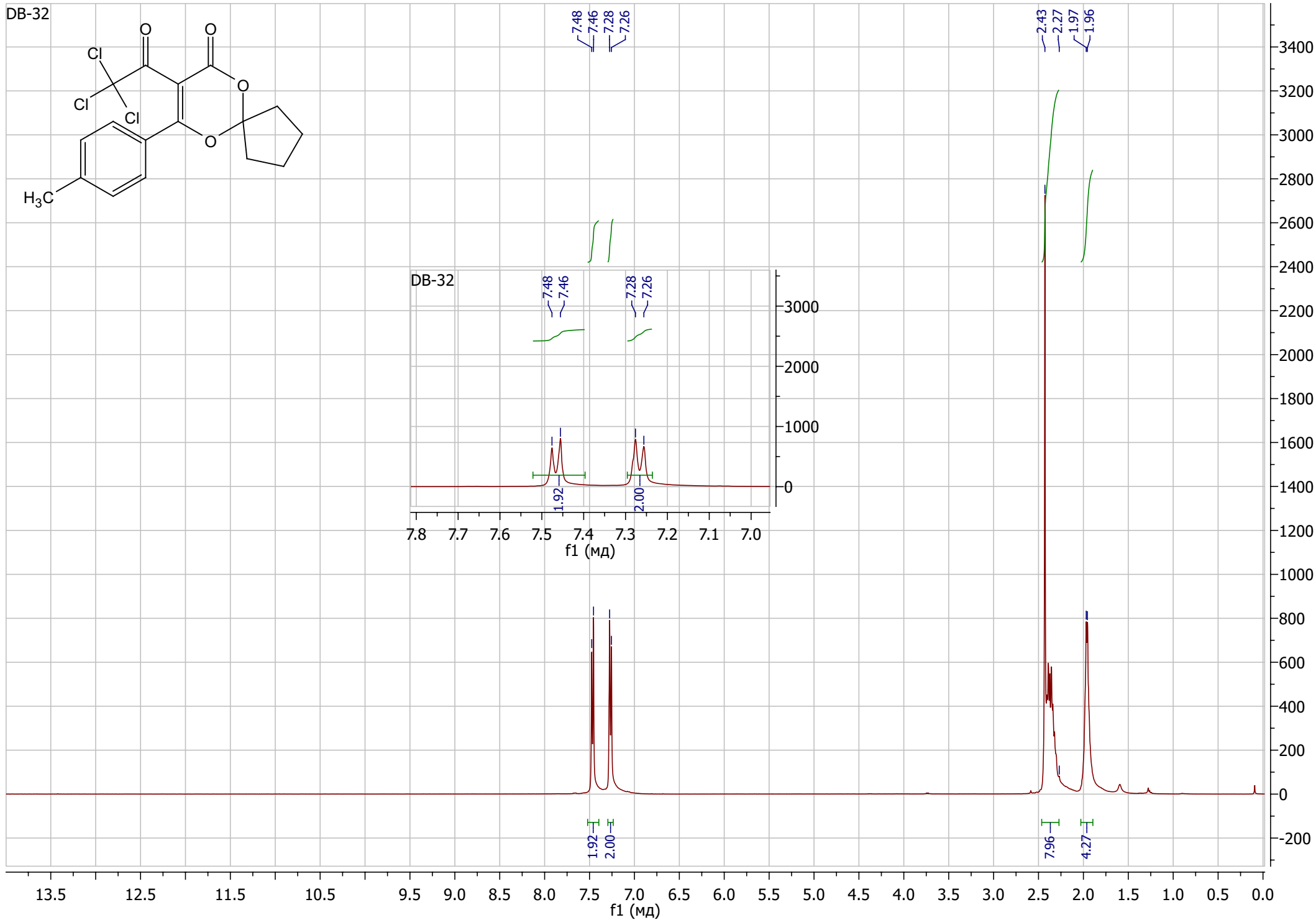
## **The synthesis and antimicrobial activity of 6-aryl-2-spiro-substituted 5-trichloroacetyl-4*H*-1,3-dioxin-4-ones**

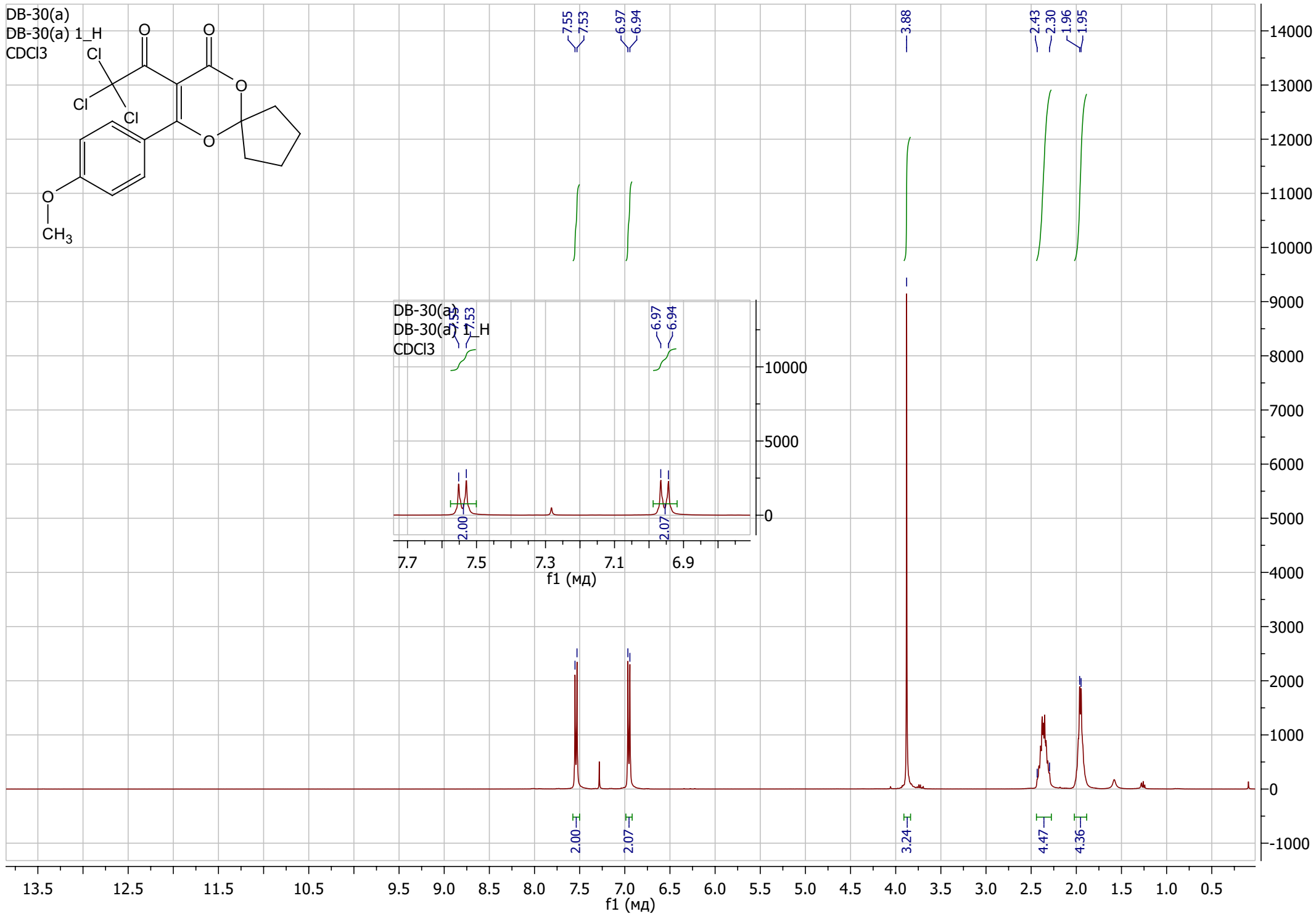
**Natalya Yu. Lisovenko<sup>1\*</sup>, Svetlana S. Kharitonova<sup>1</sup>, Svetlana Yu. Balandina<sup>1</sup>**

<sup>1</sup> *Perm State University,  
15 Bukireva St., Perm 614990, Russia; e-mail: lisovn@mail.ru*

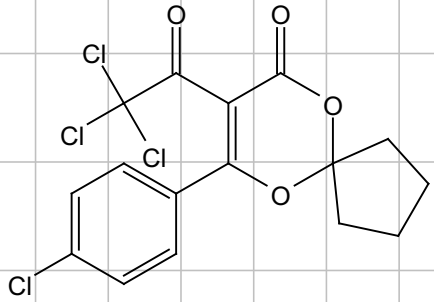
### **SUPPLEMENTARY INFORMATION**



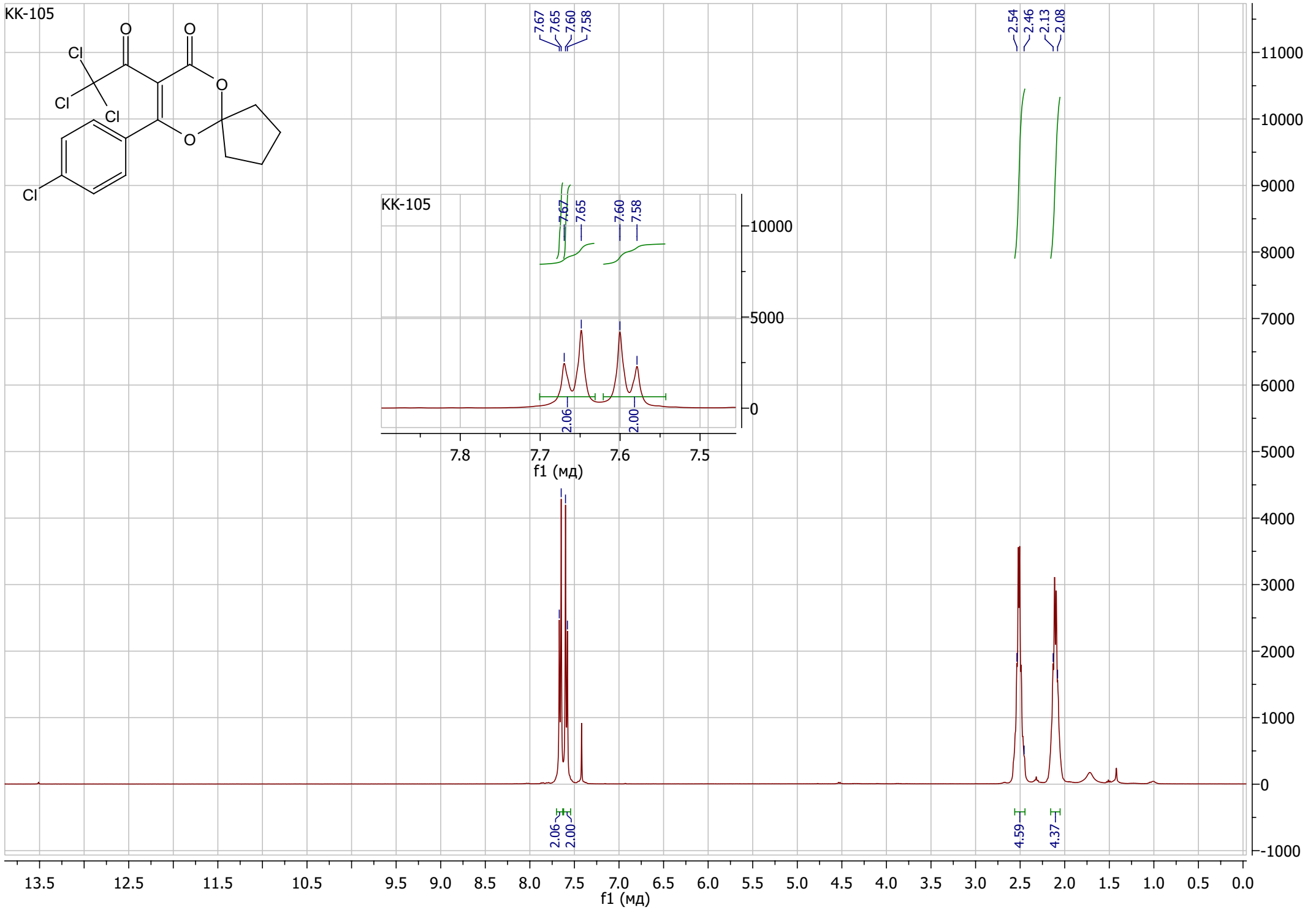
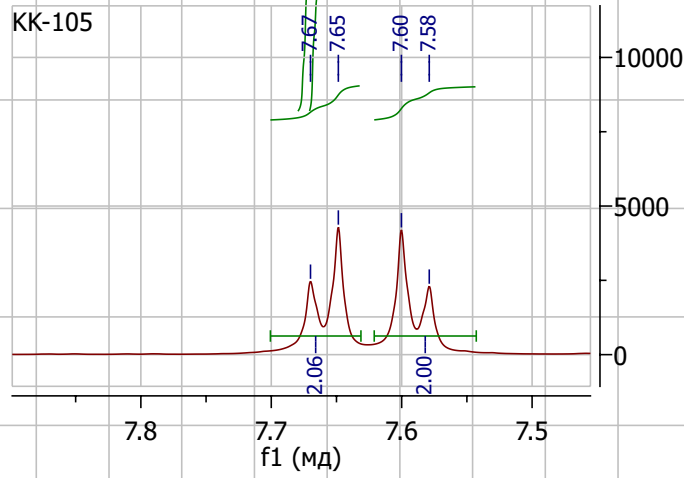




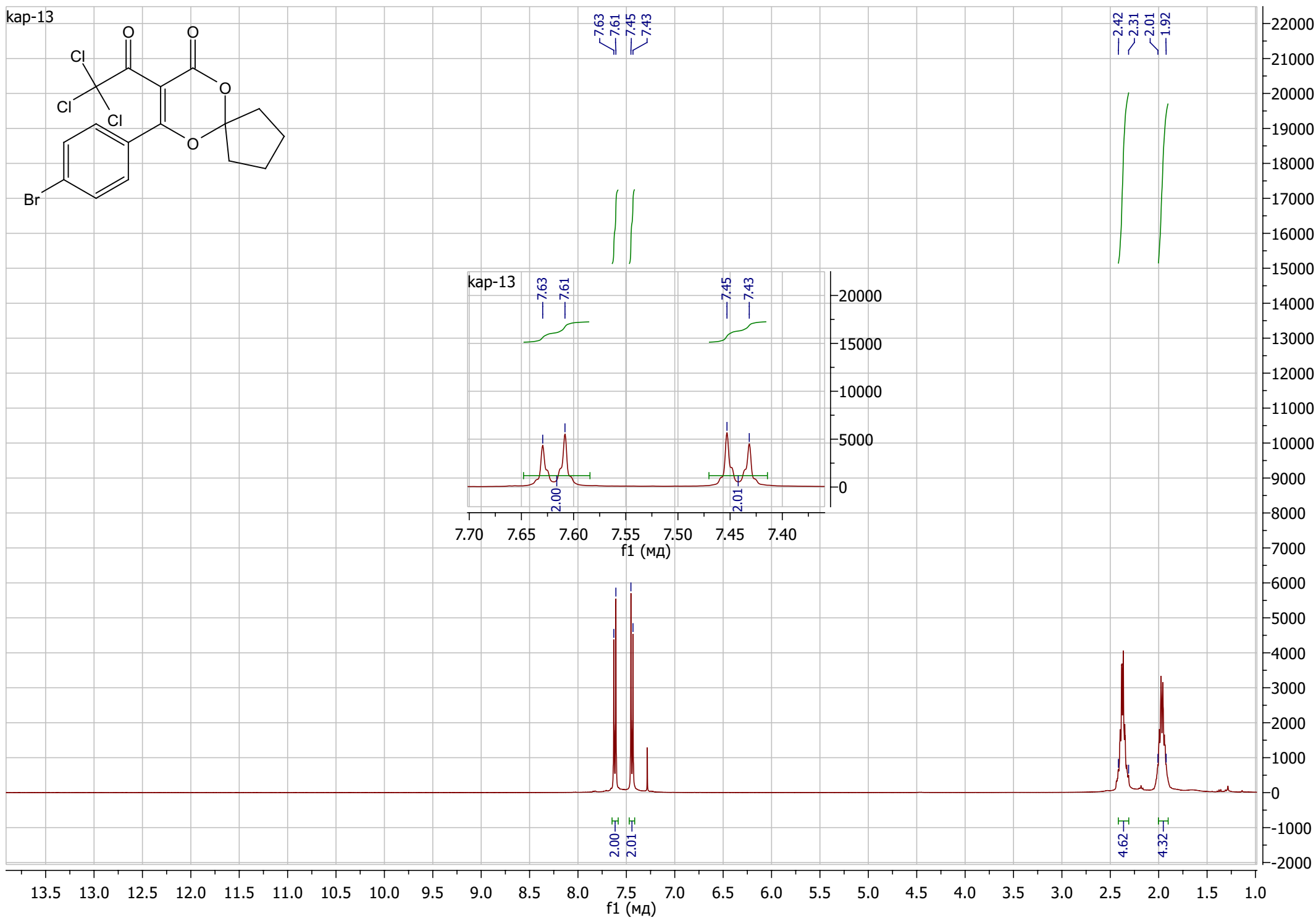
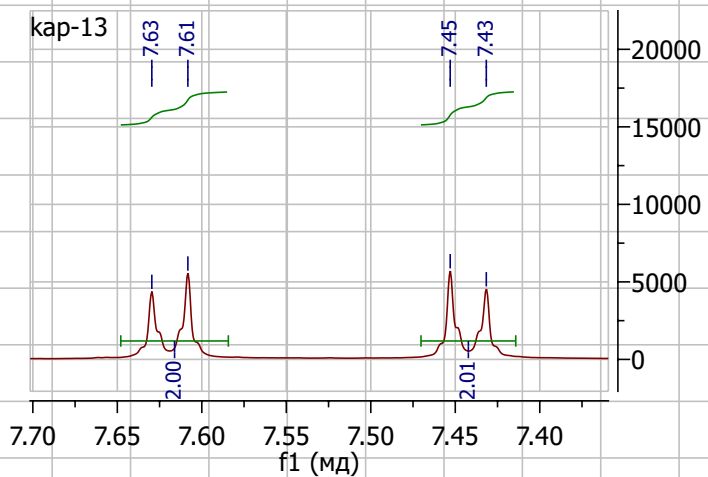
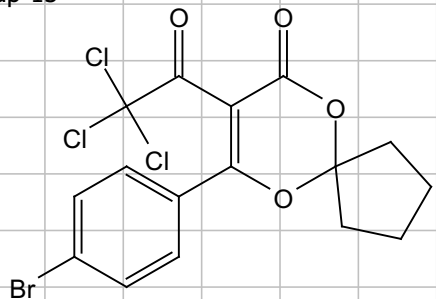
KK-105



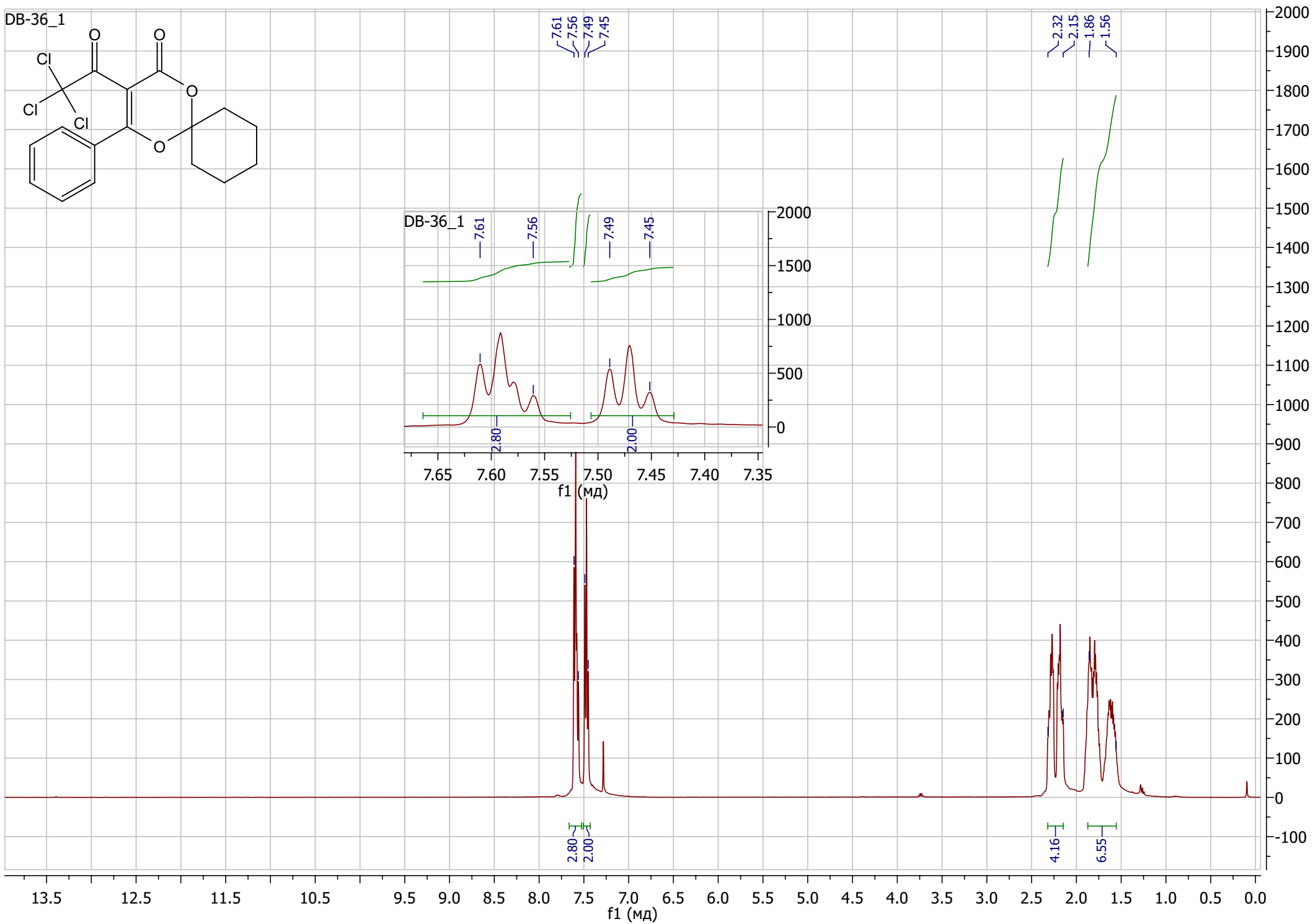
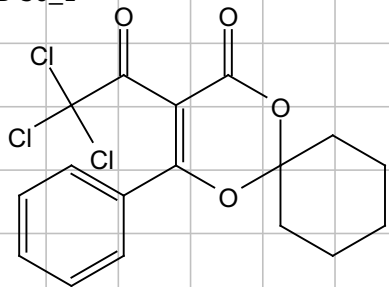
KK-105



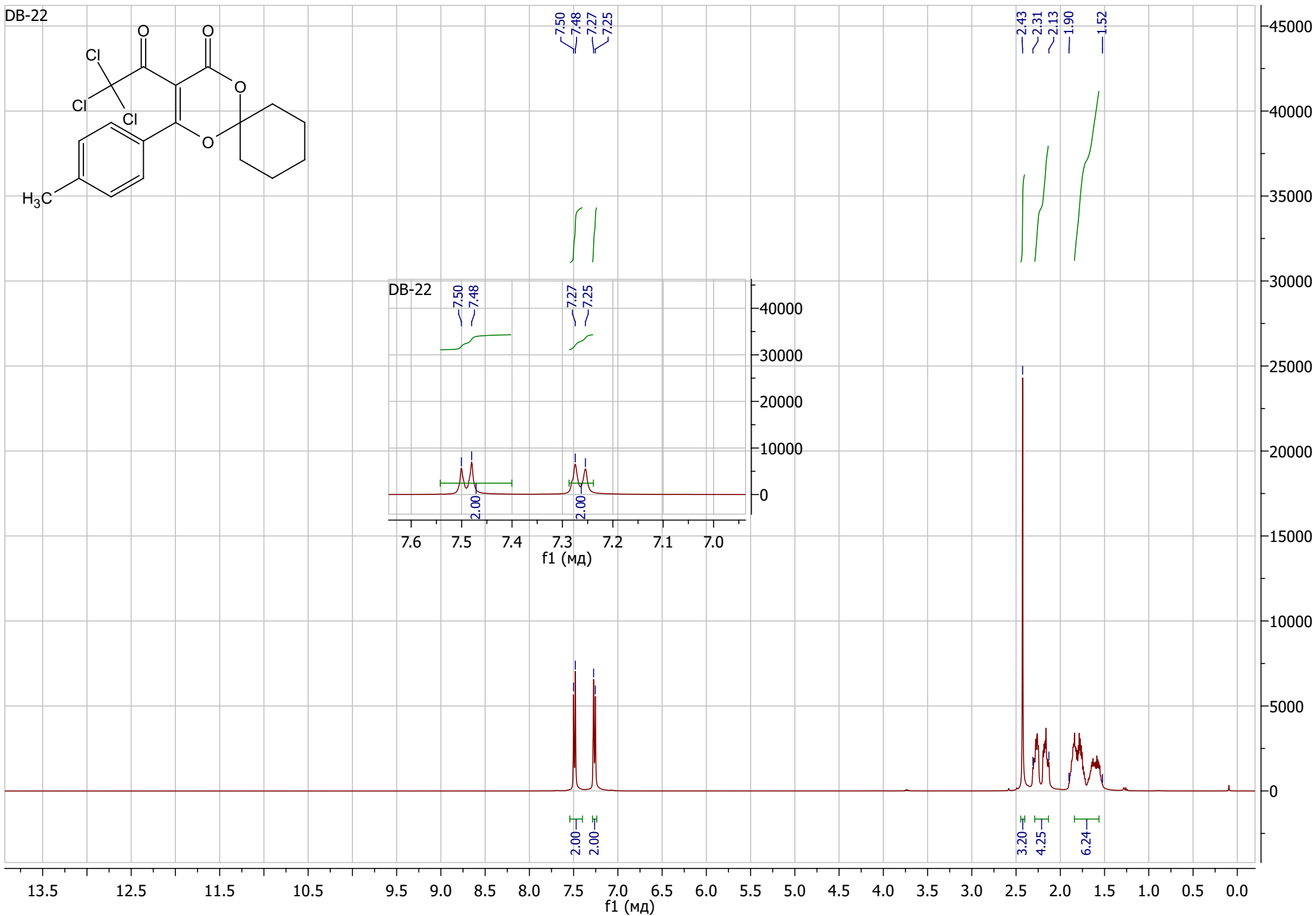
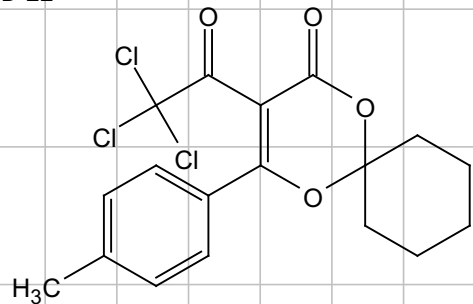
kap-13



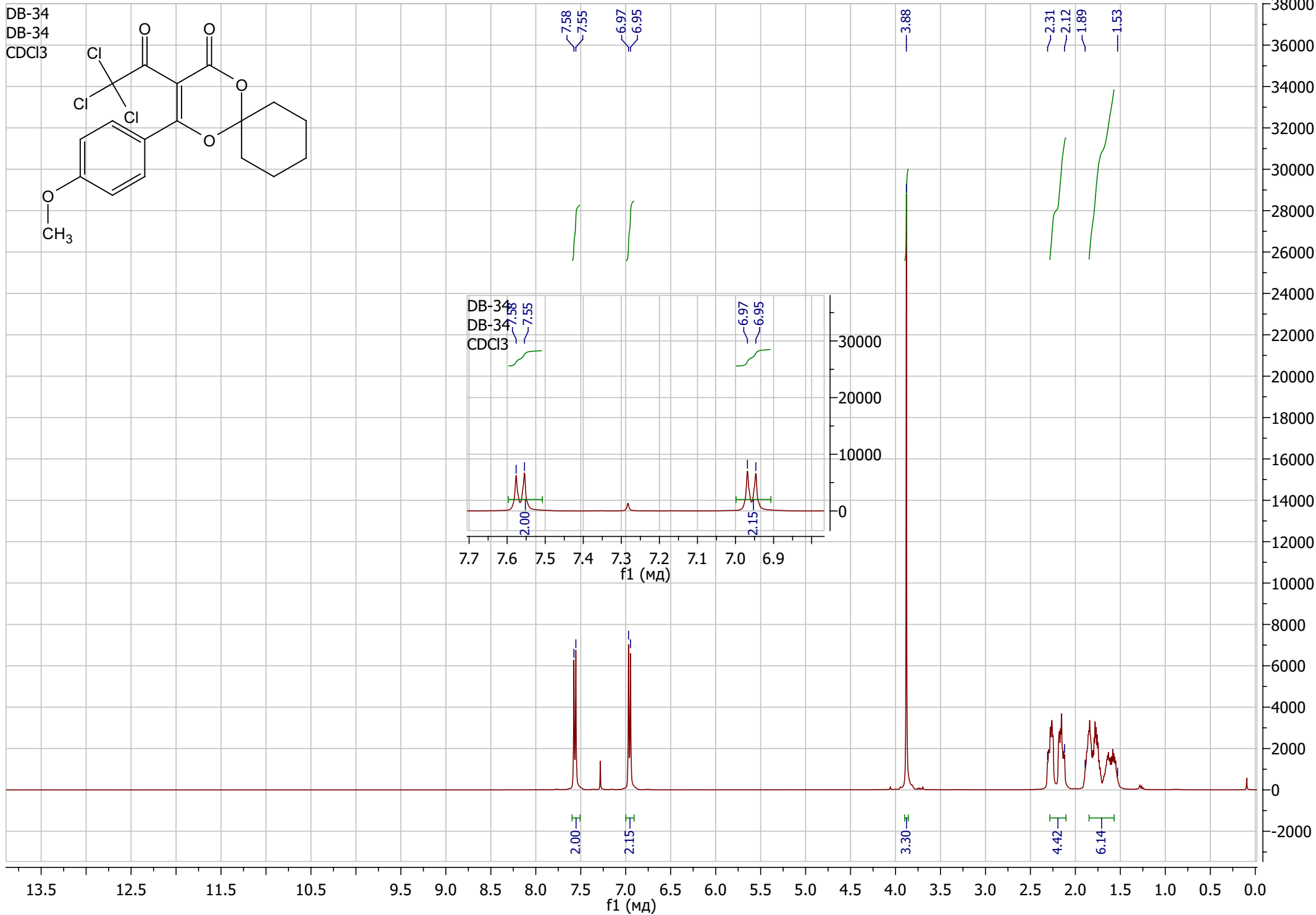
DB-36\_1



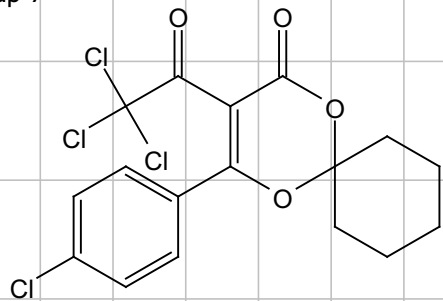
DB-22





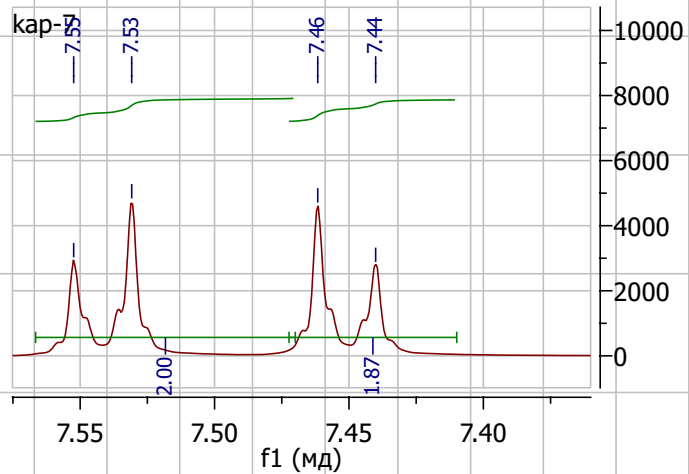


kap-7



7.55  
7.53  
7.46  
7.44

2.29  
2.15  
1.91  
1.55



13.5 12.5 11.5 10.5 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0

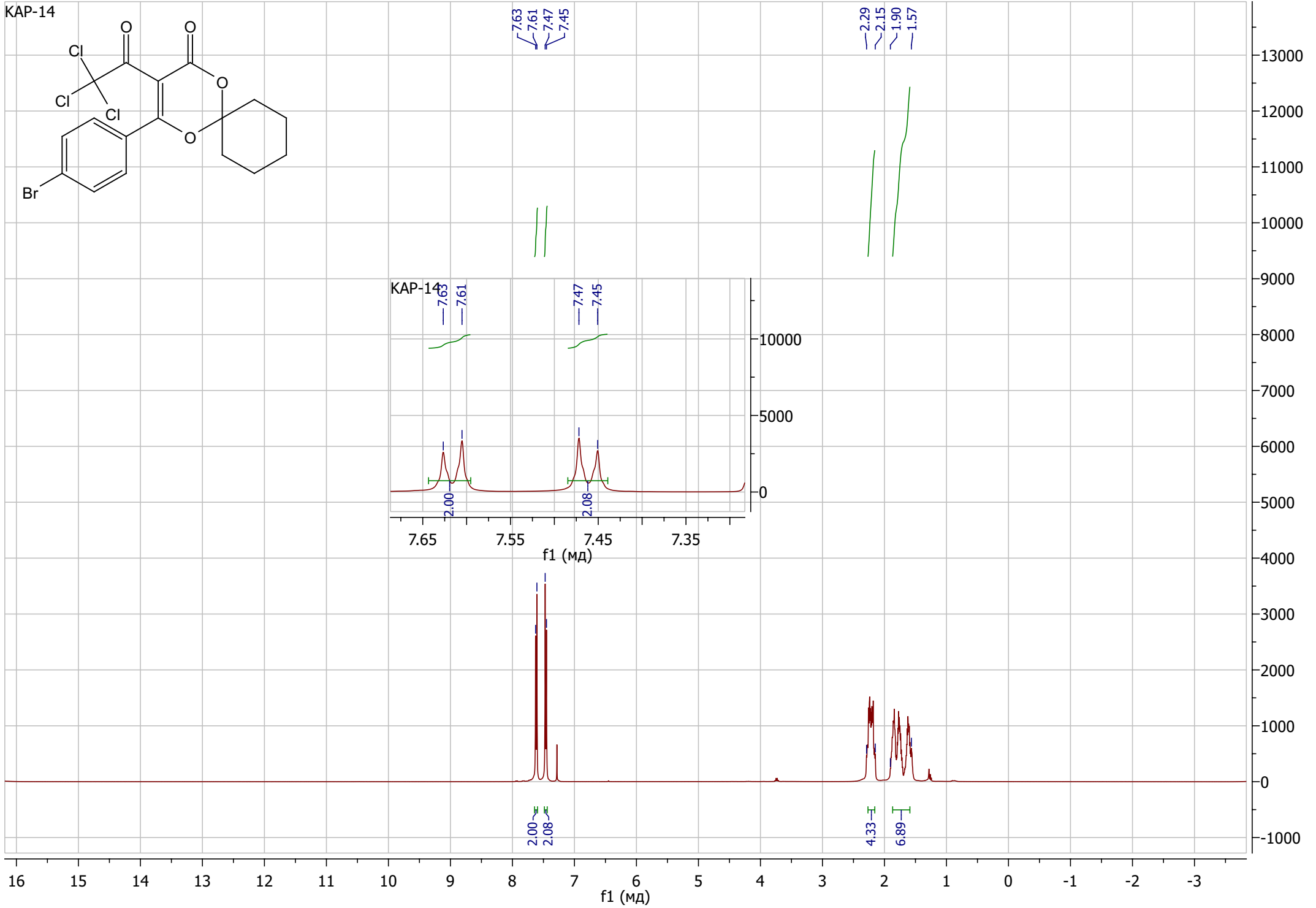
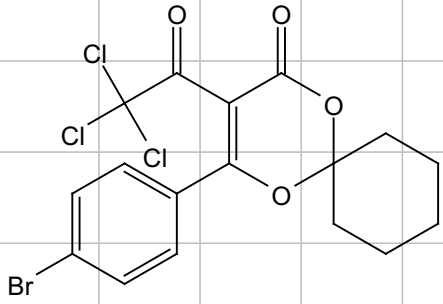
f1 (MД)

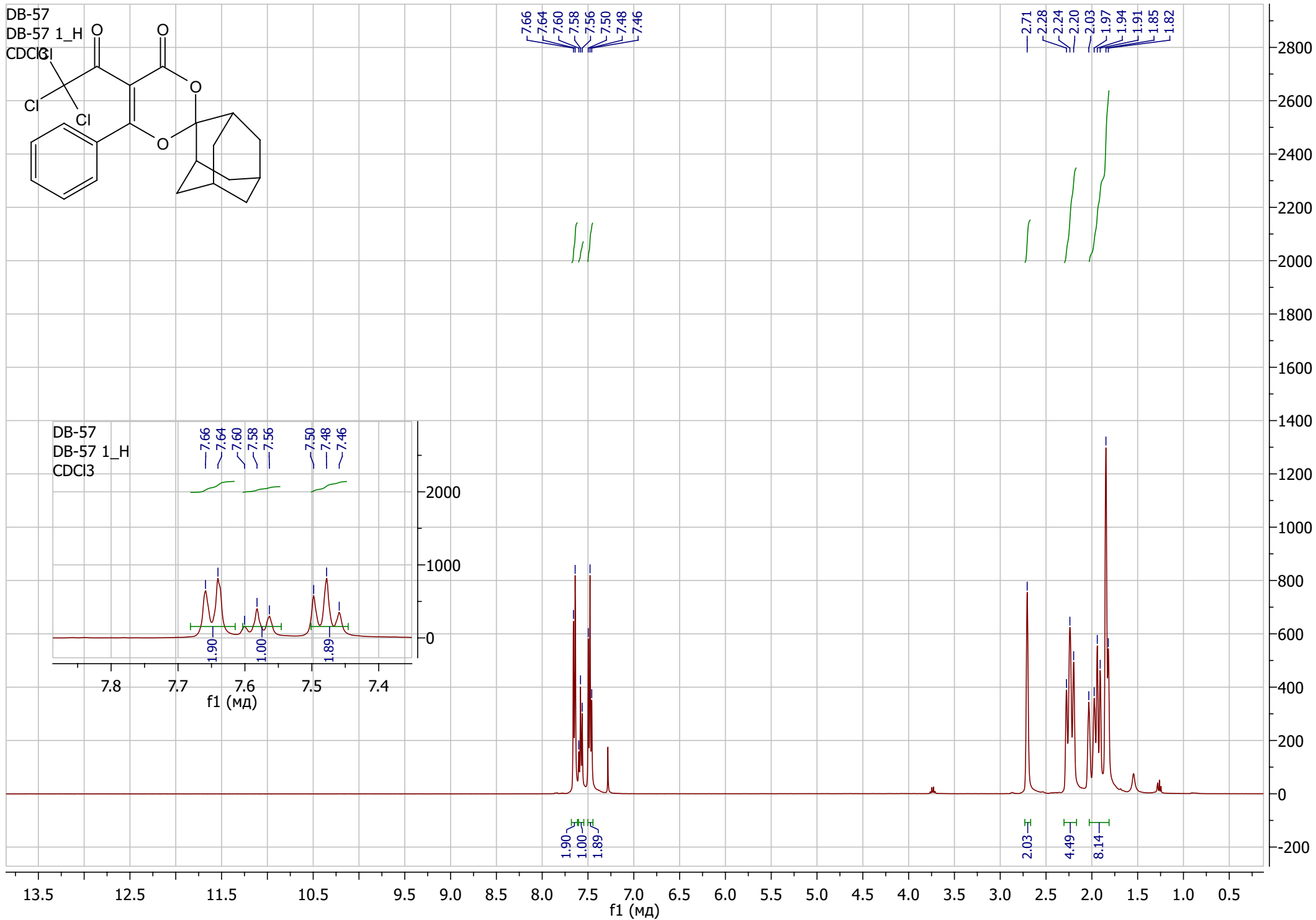
2.00  
1.87

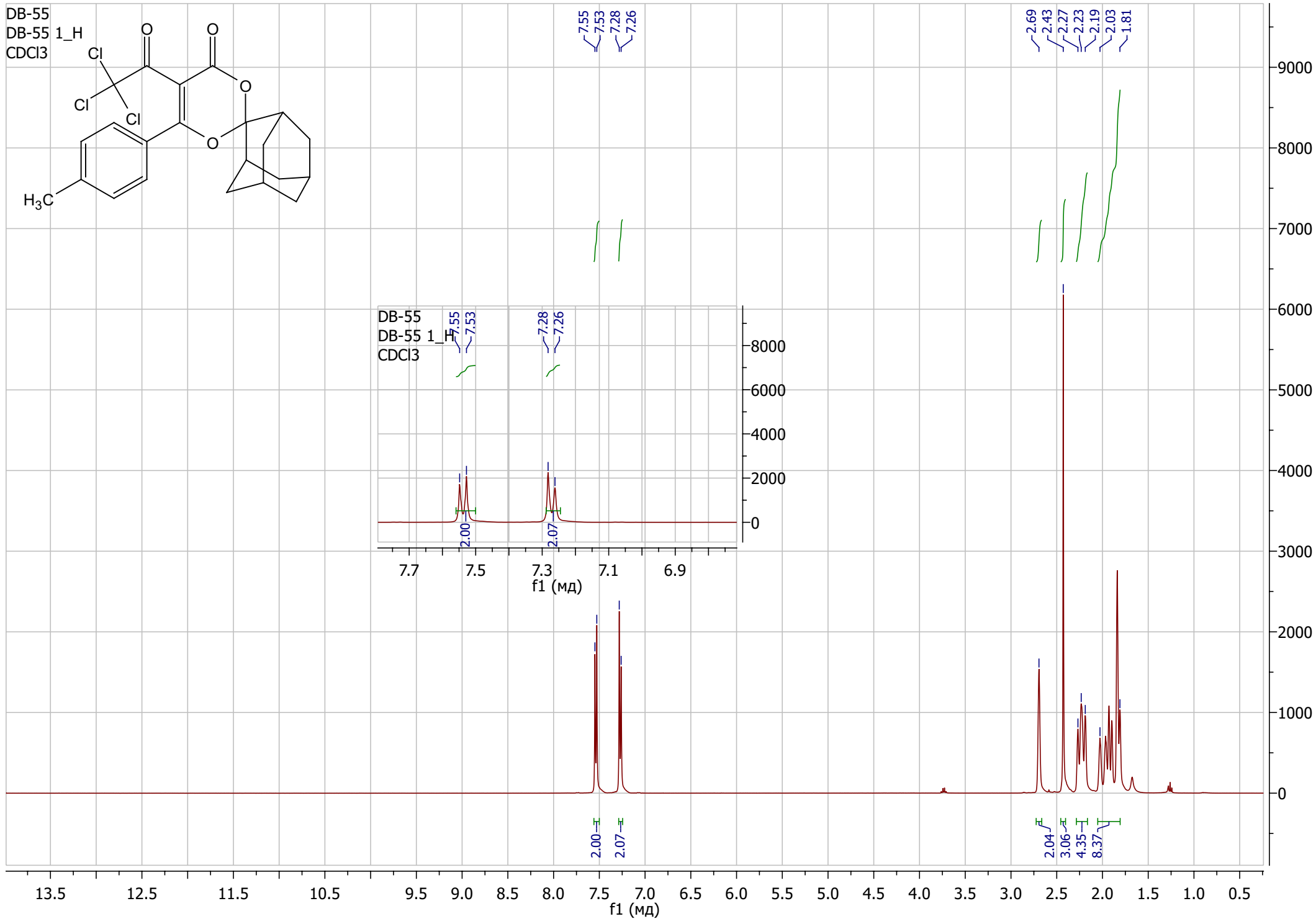
4.35  
6.61

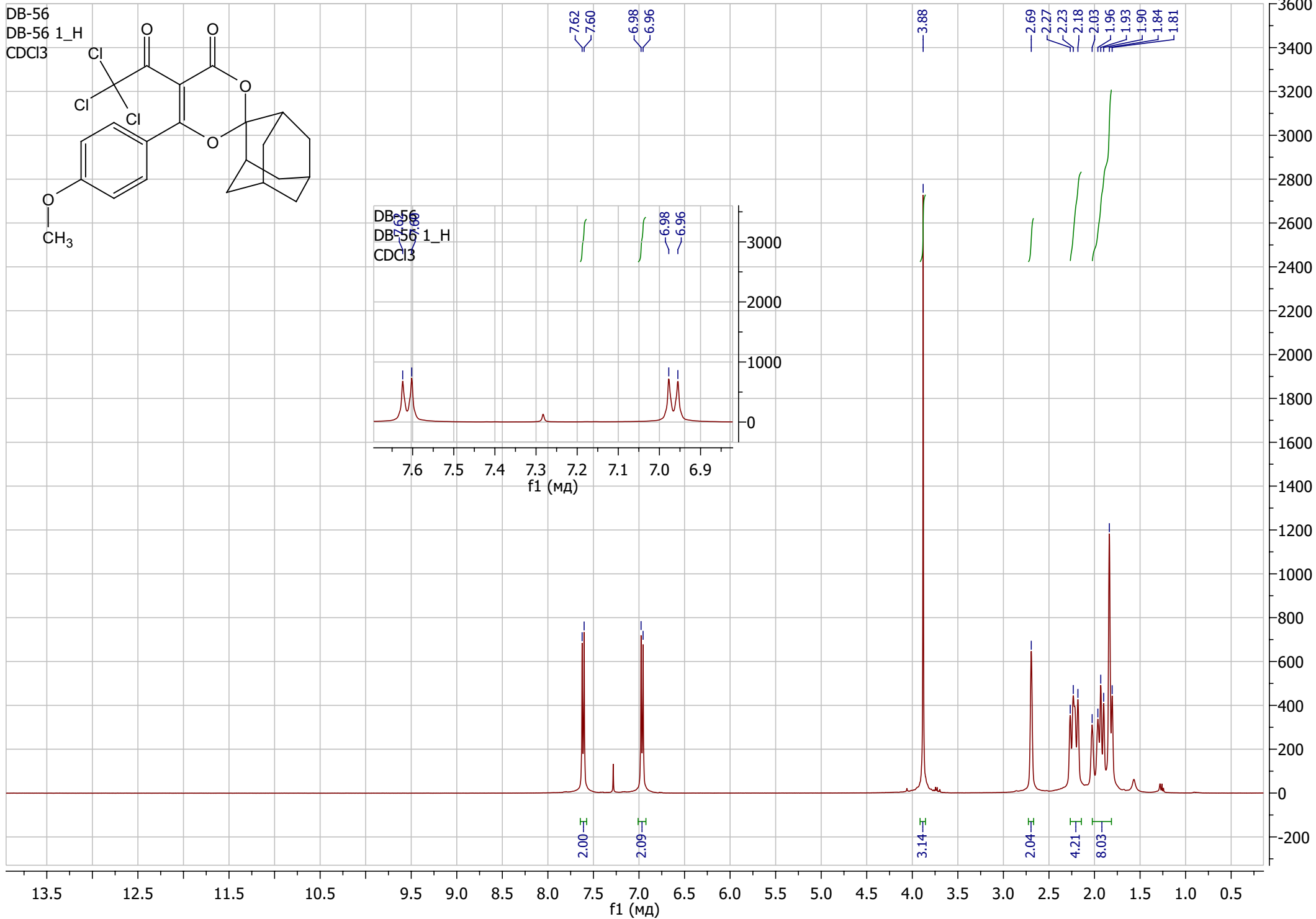
10000  
9000  
8000  
7000  
6000  
5000  
4000  
3000  
2000  
1000  
0

KAP-14

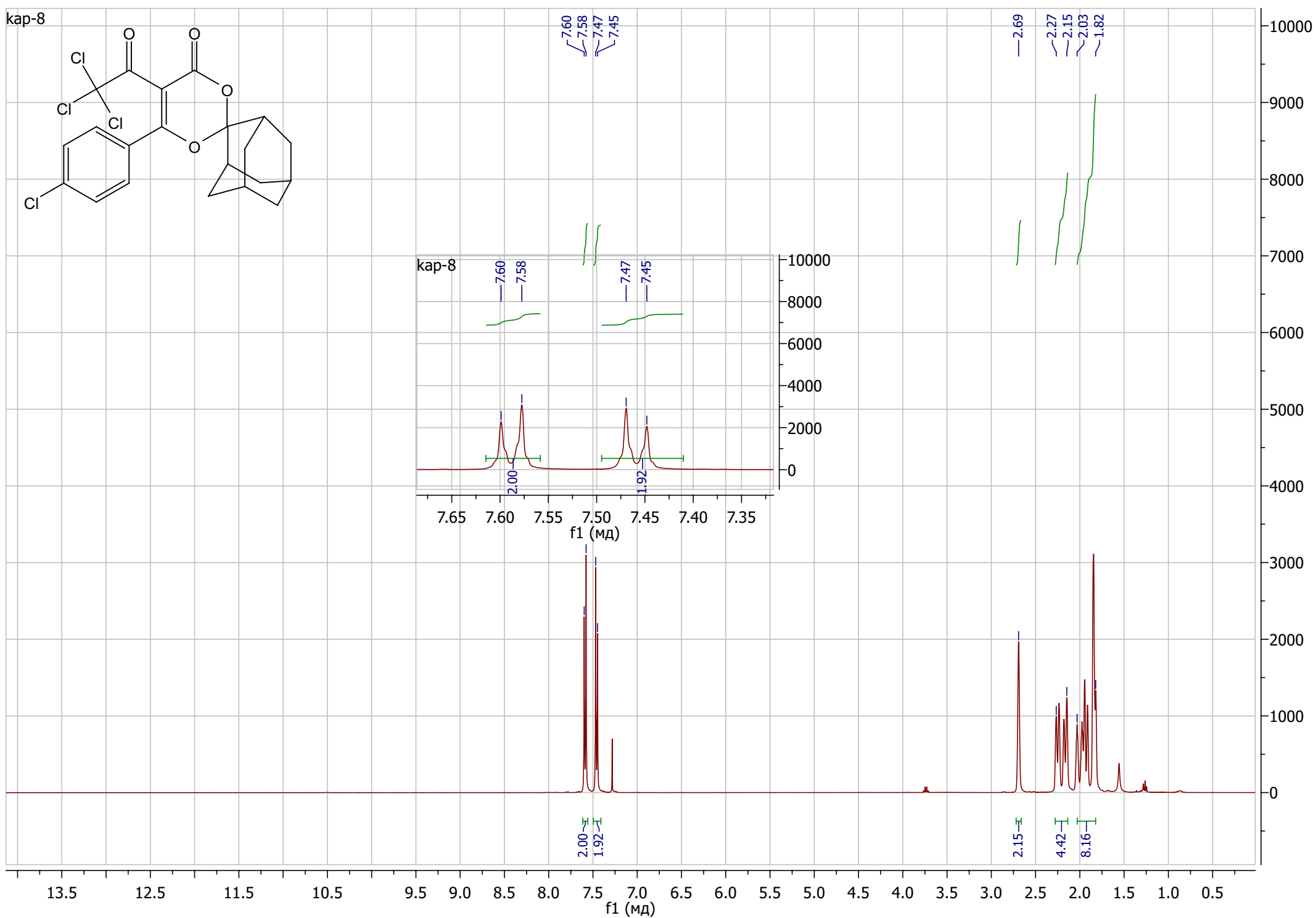
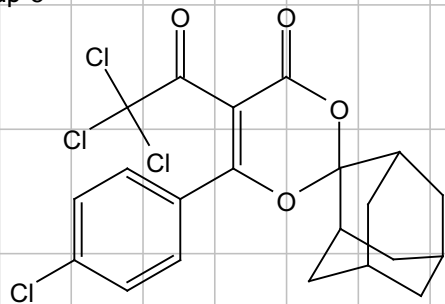




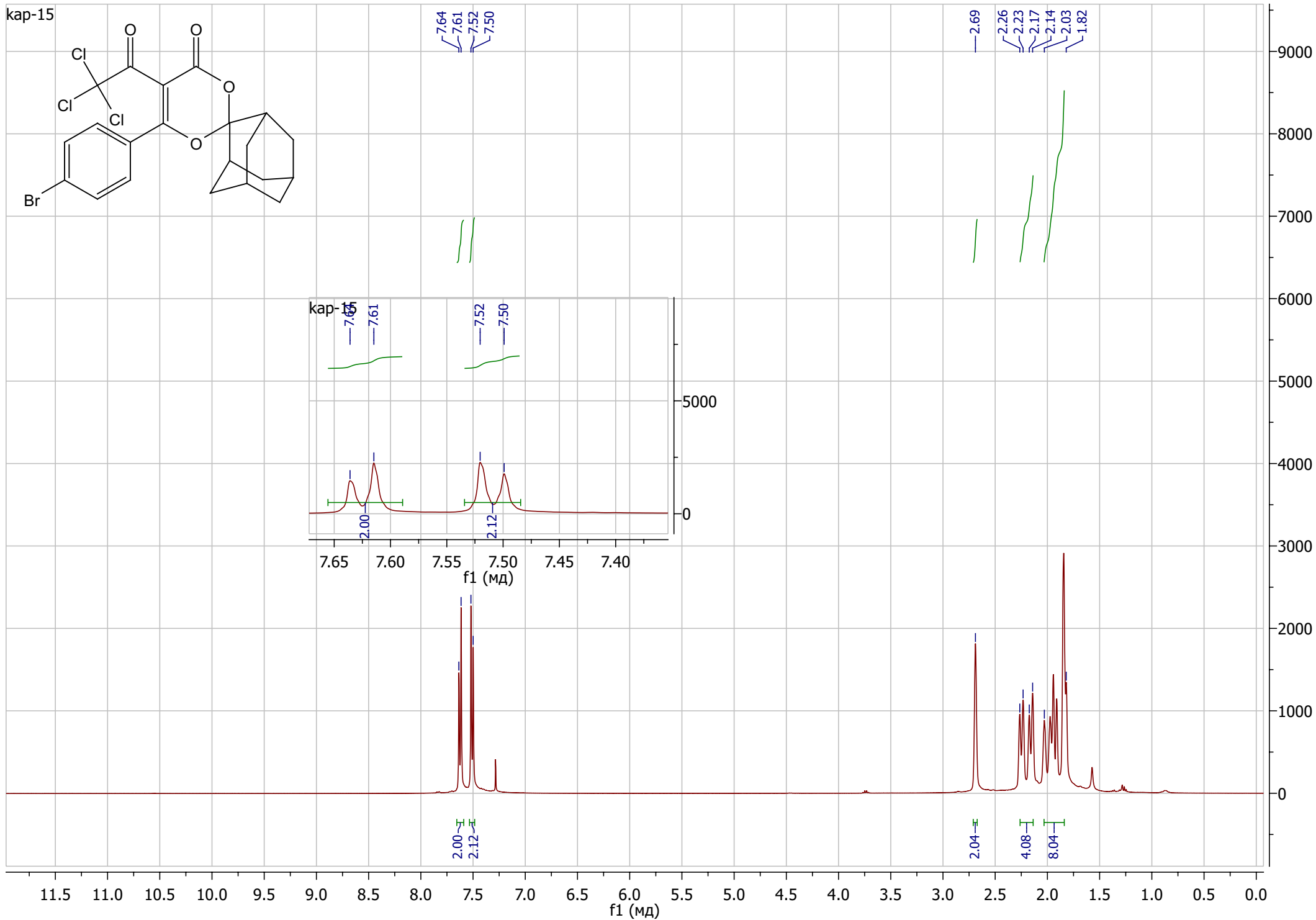
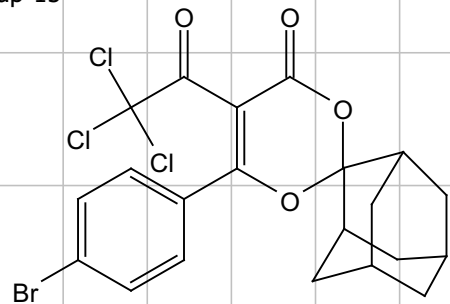




kap-8

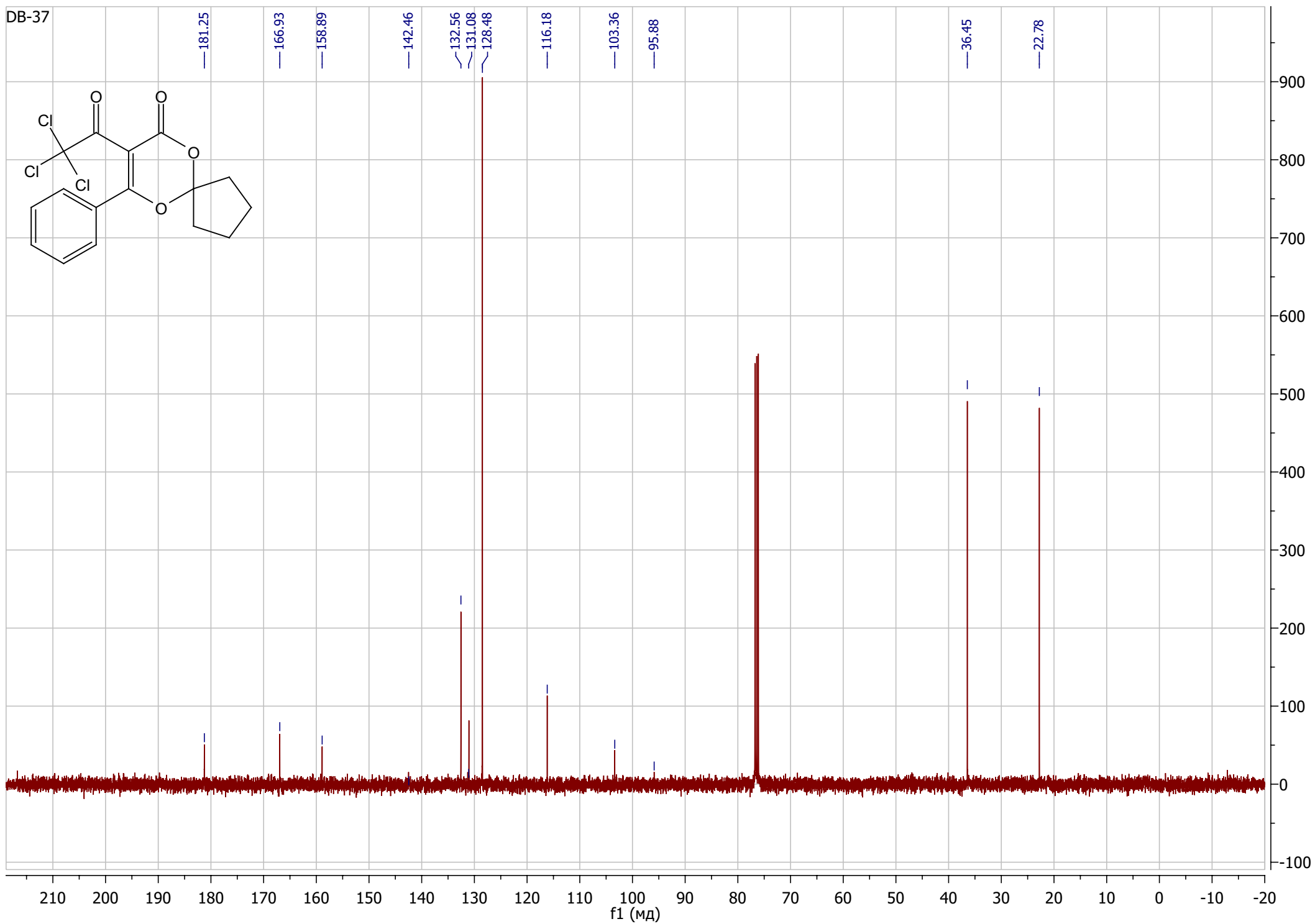
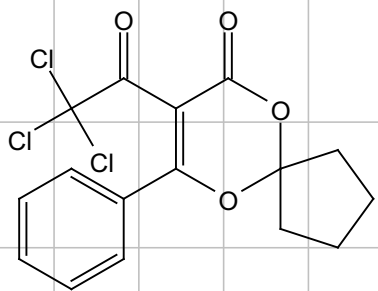


kap-15

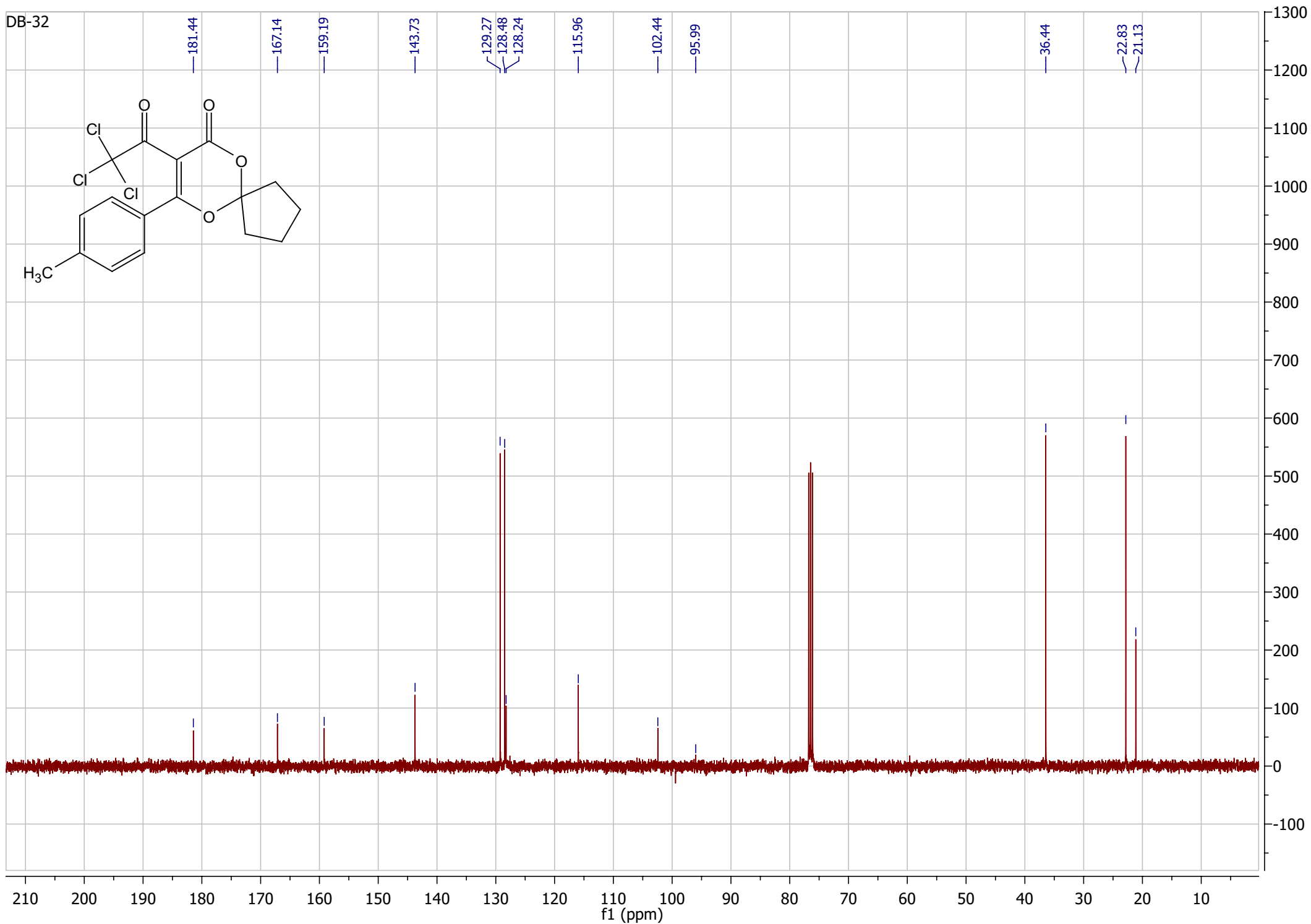
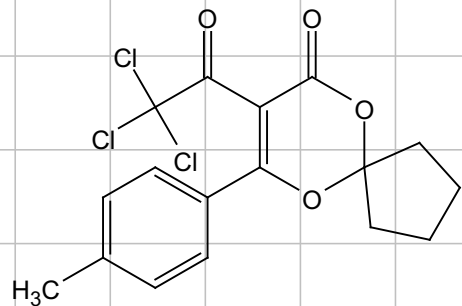




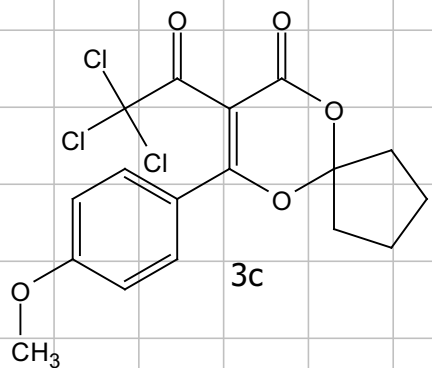
DB-37



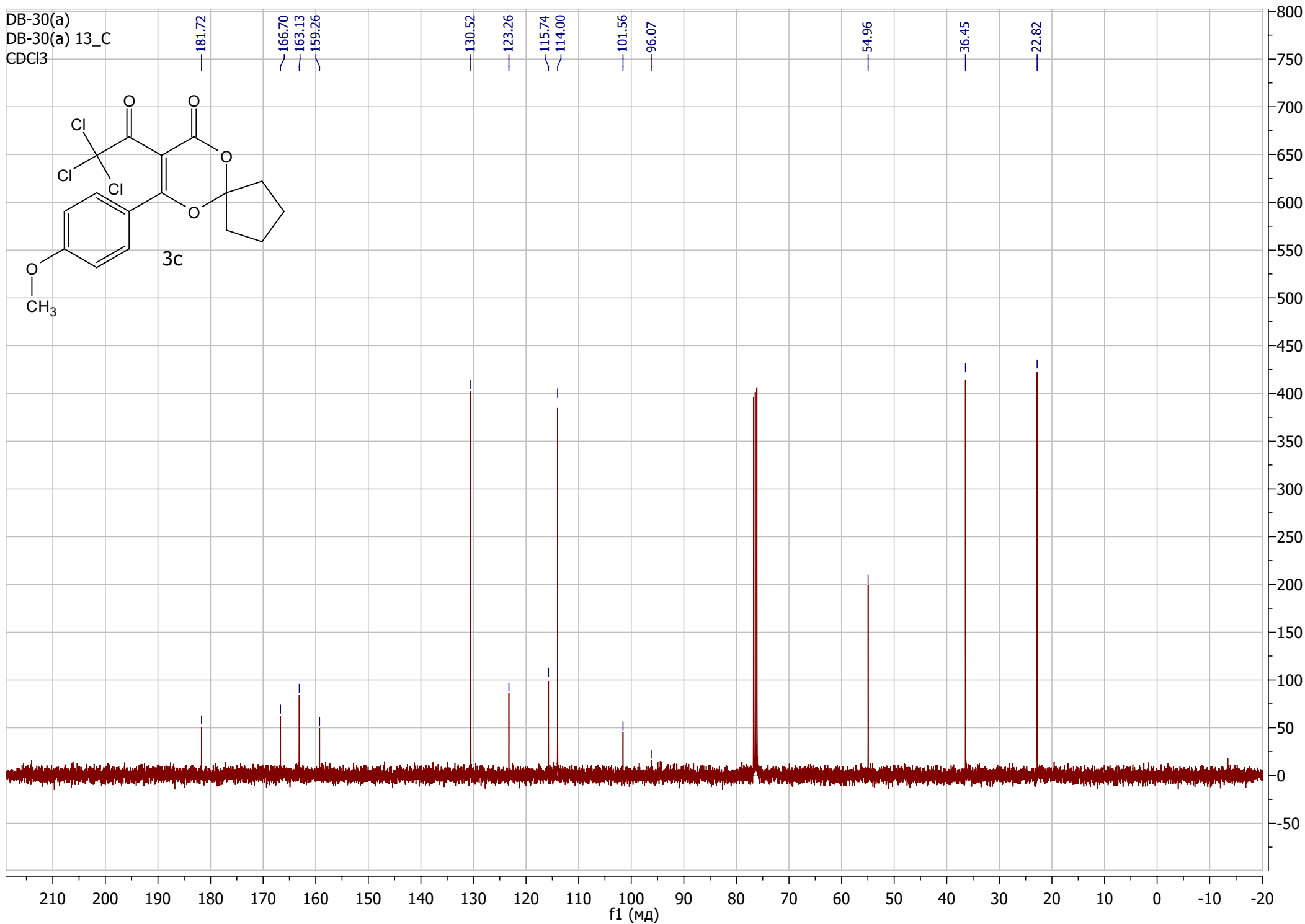
DB-32



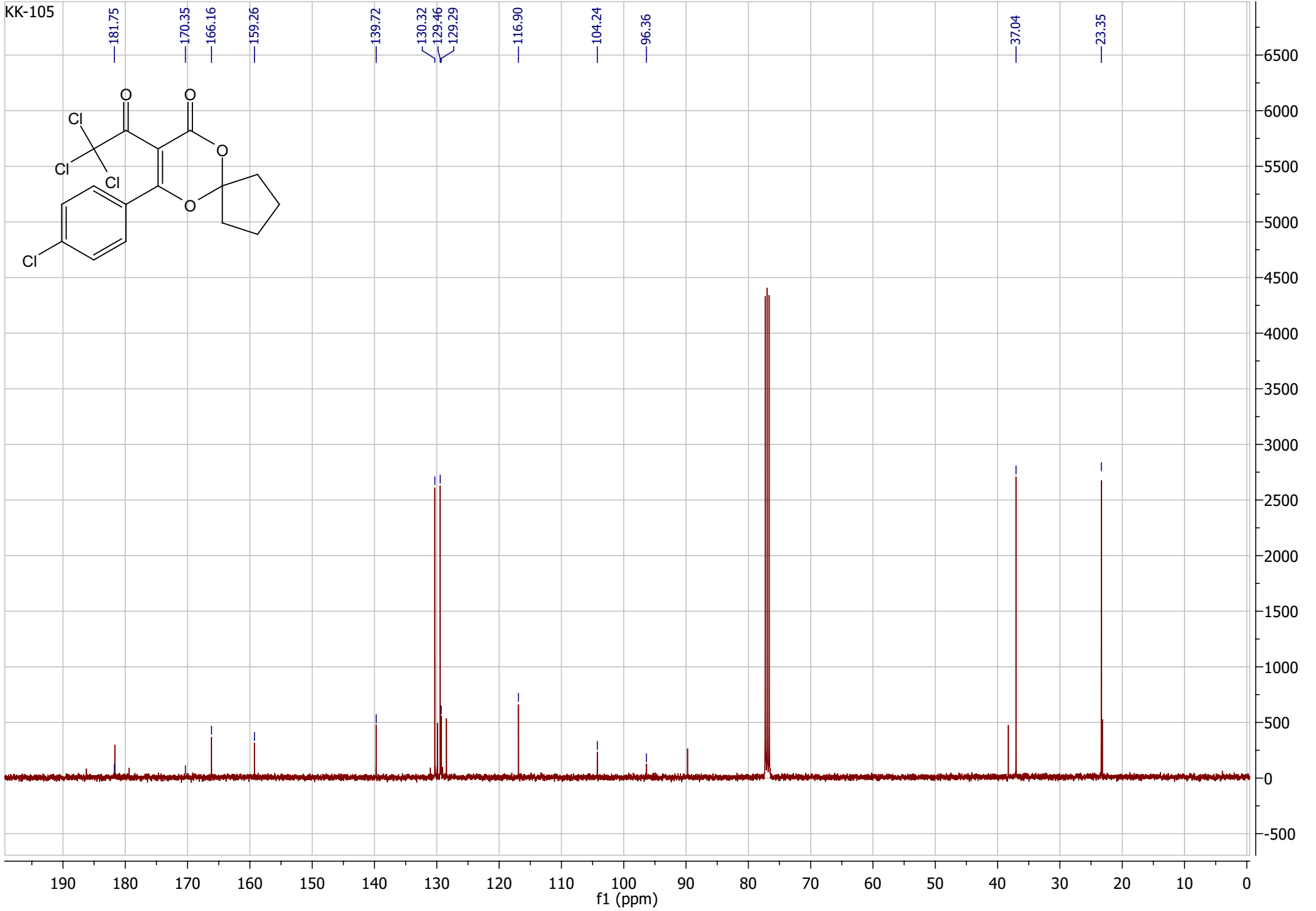
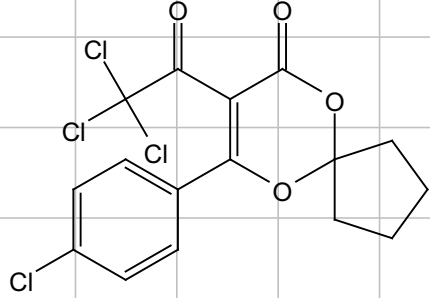
DB-30(a)  
DB-30(a) 13\_C  
CDCl3



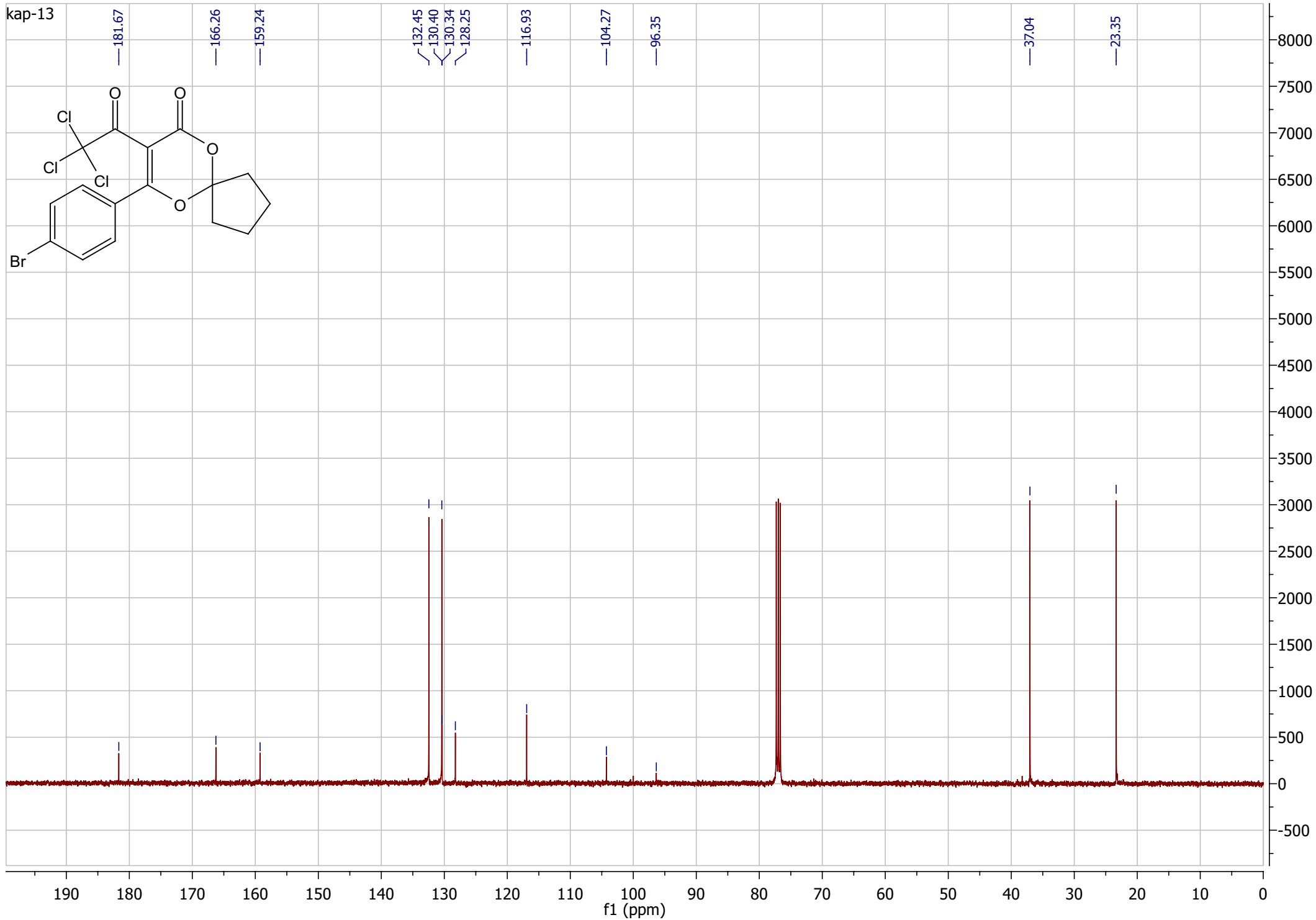
181.72  
166.70  
163.13  
159.26  
130.52  
123.26  
115.74  
114.00  
101.56  
96.07  
54.96  
36.45  
22.82



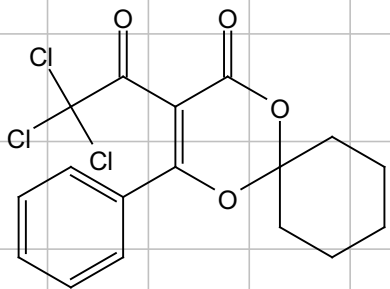
KK-105



kap-13



DB-36\_1



181.67

165.79

158.00

132.39

131.21

128.46

107.45

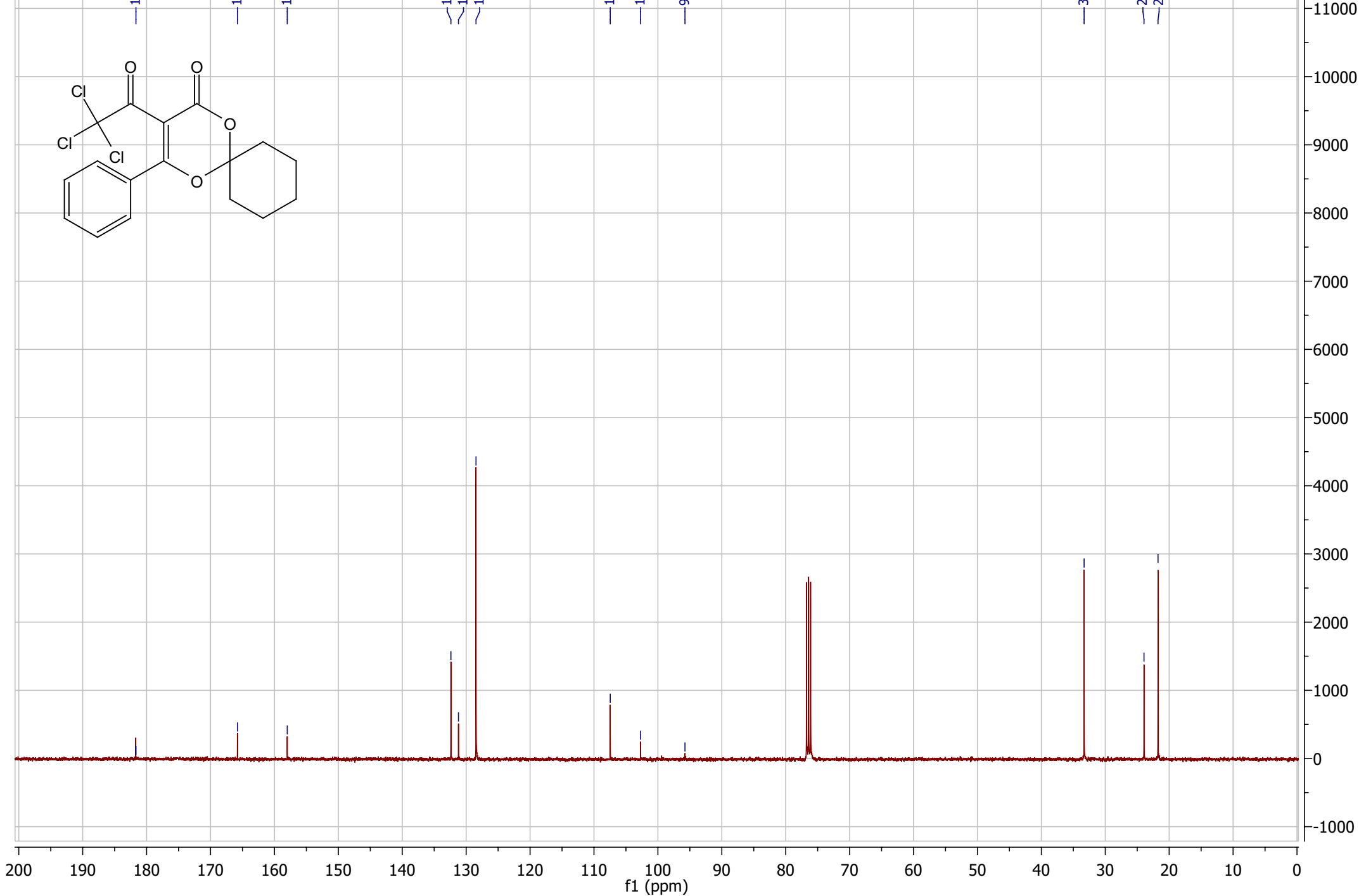
102.71

95.76

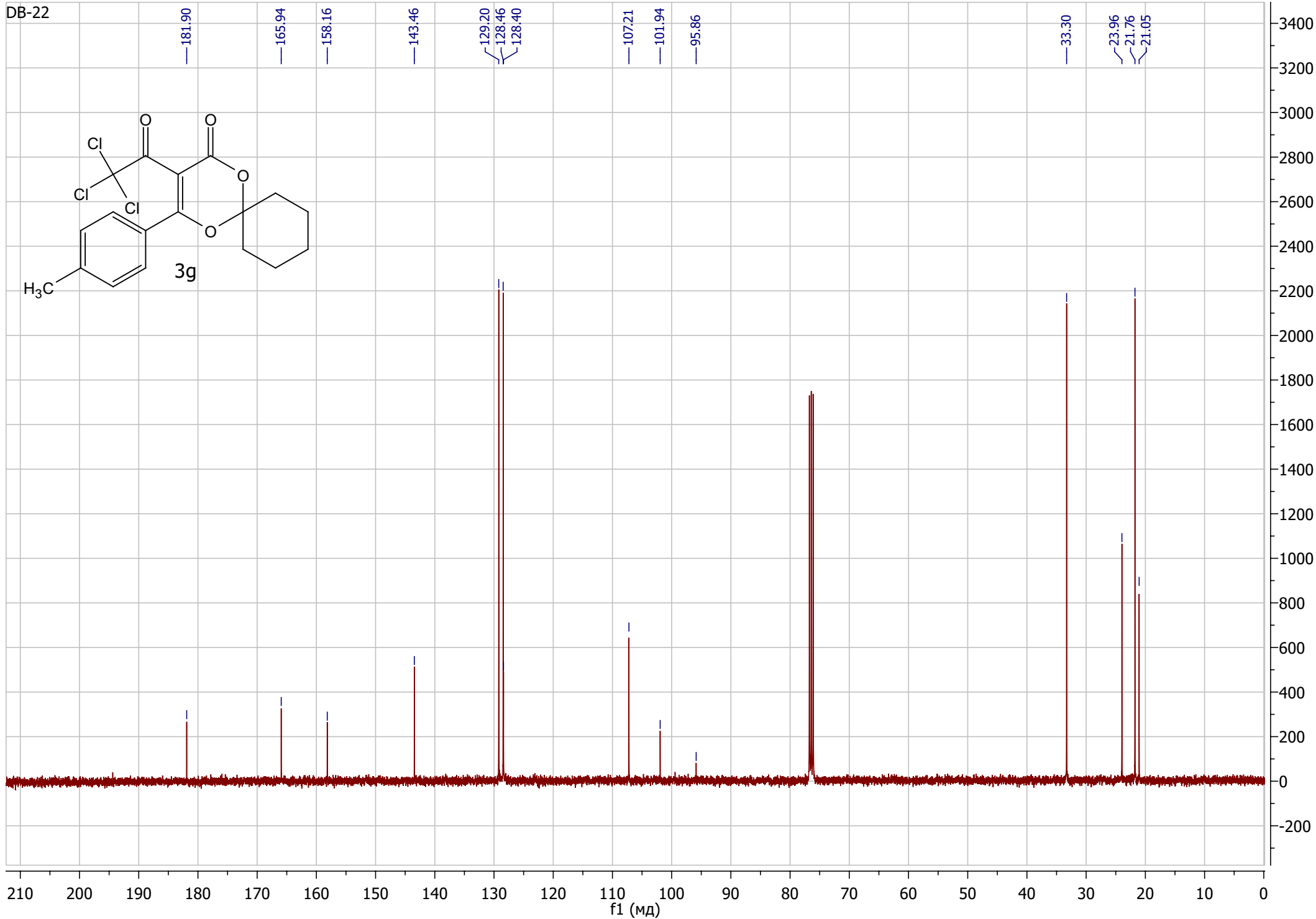
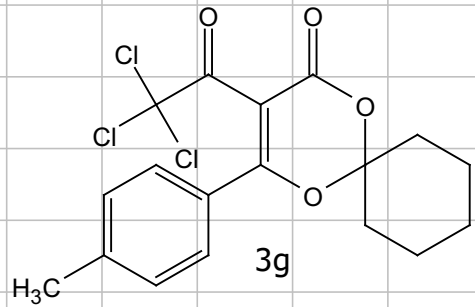
33.31

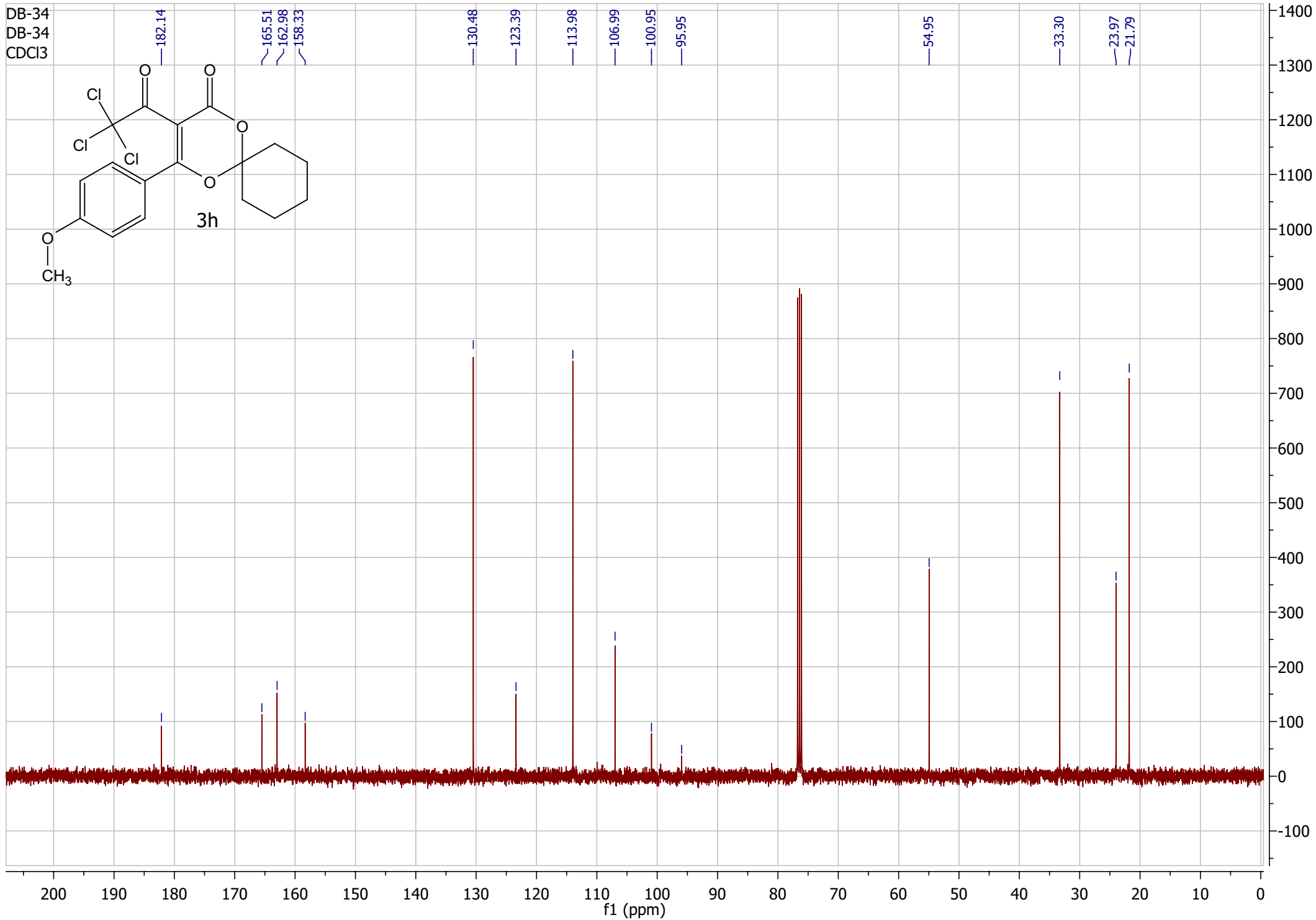
23.94

21.74



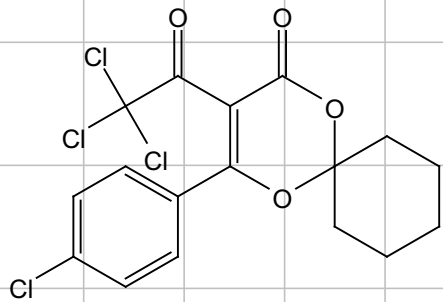
DB-22







kap-7



182.13

165.02

158.36

139.52

130.30

130.07

129.43

108.22

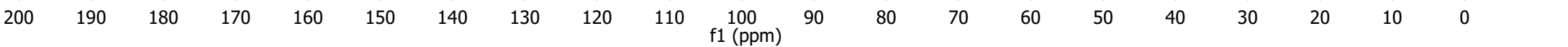
103.59

96.24

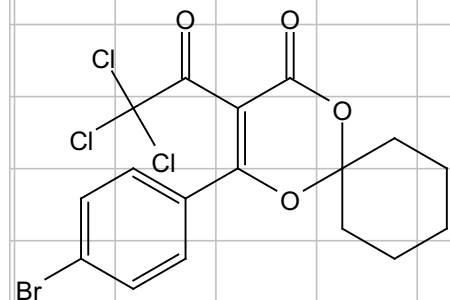
33.86

24.45

22.30



KAP-14



182.12

165.11

158.33

132.42

130.52

130.38

128.02

108.25

103.63

96.22

33.86

24.45

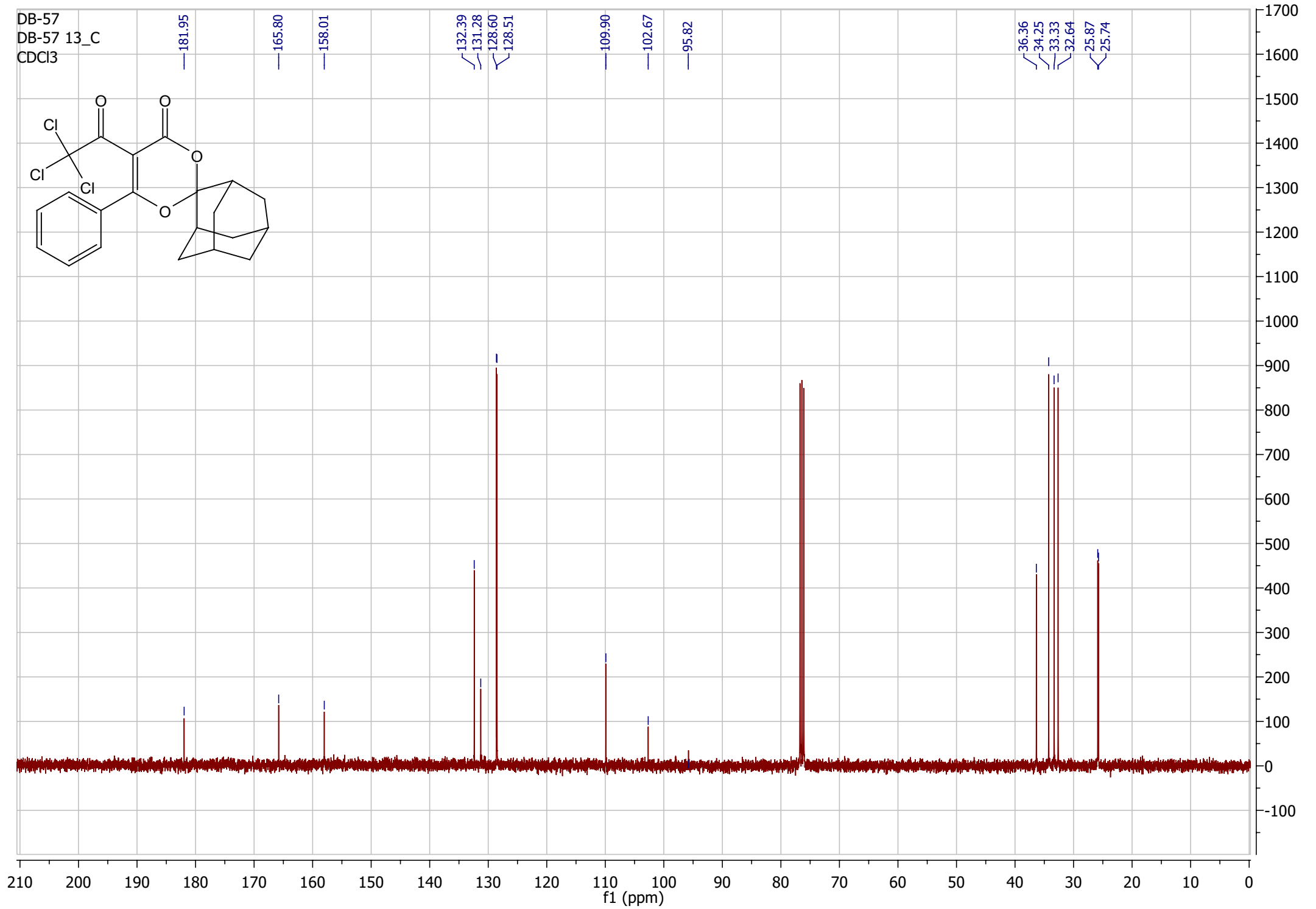
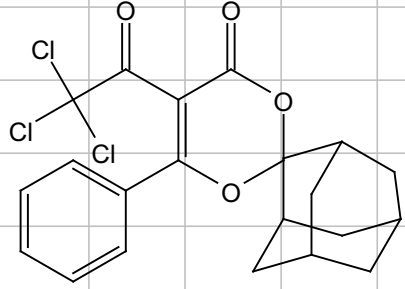
22.30

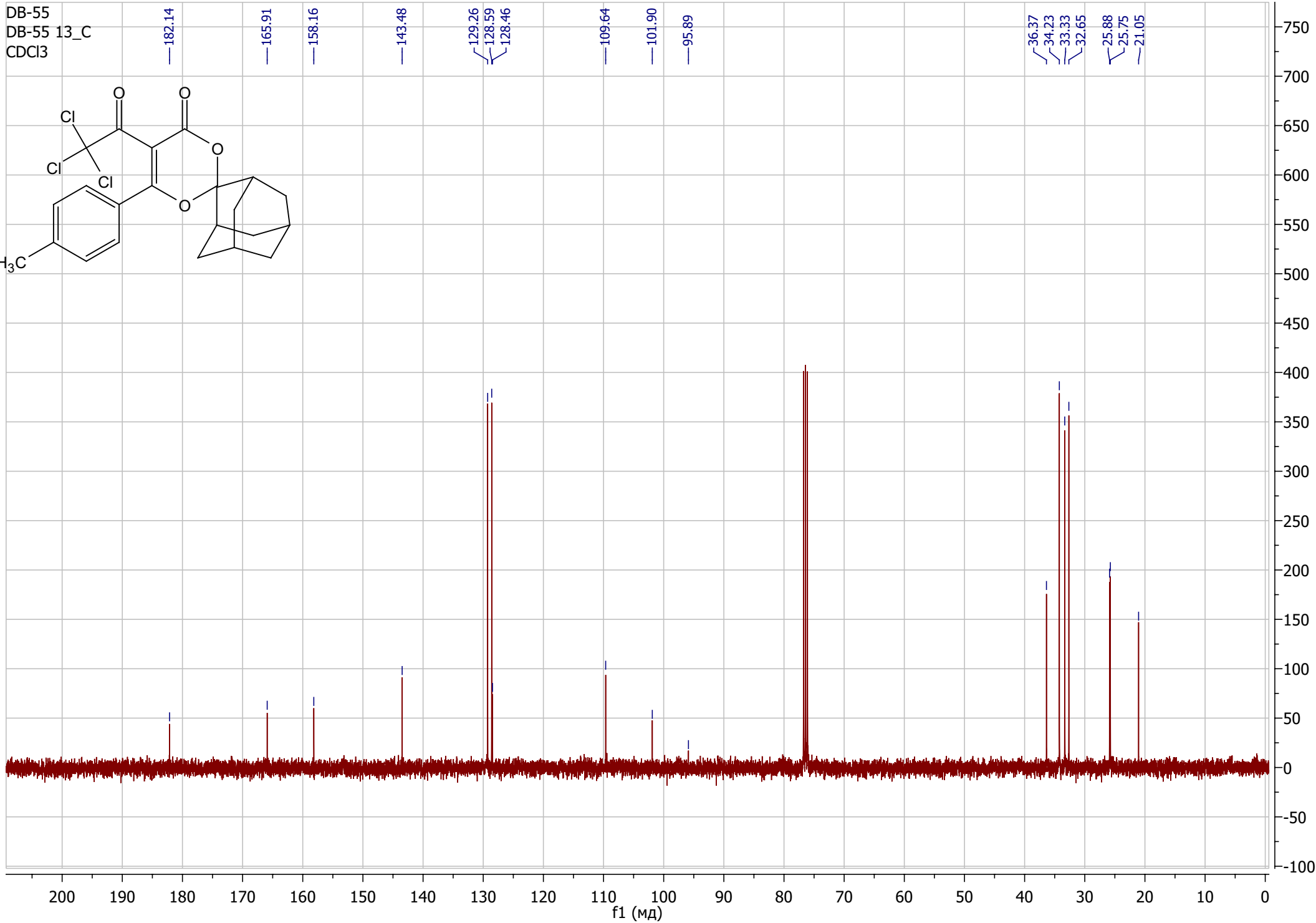
200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

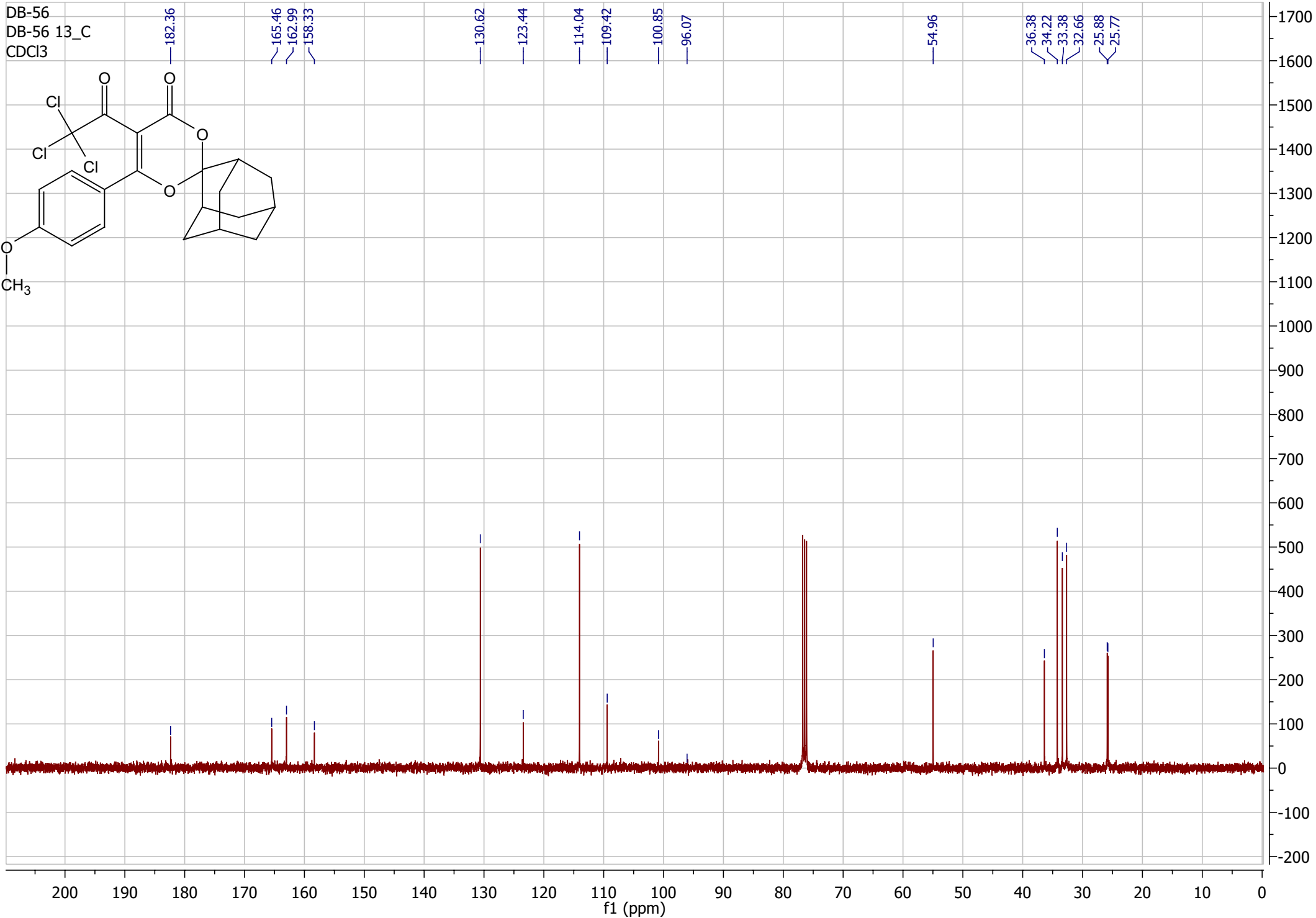
f1 (ppm)

17000  
16000  
15000  
14000  
13000  
12000  
11000  
10000  
9000  
8000  
7000  
6000  
5000  
4000  
3000  
2000  
1000  
0  
-1000

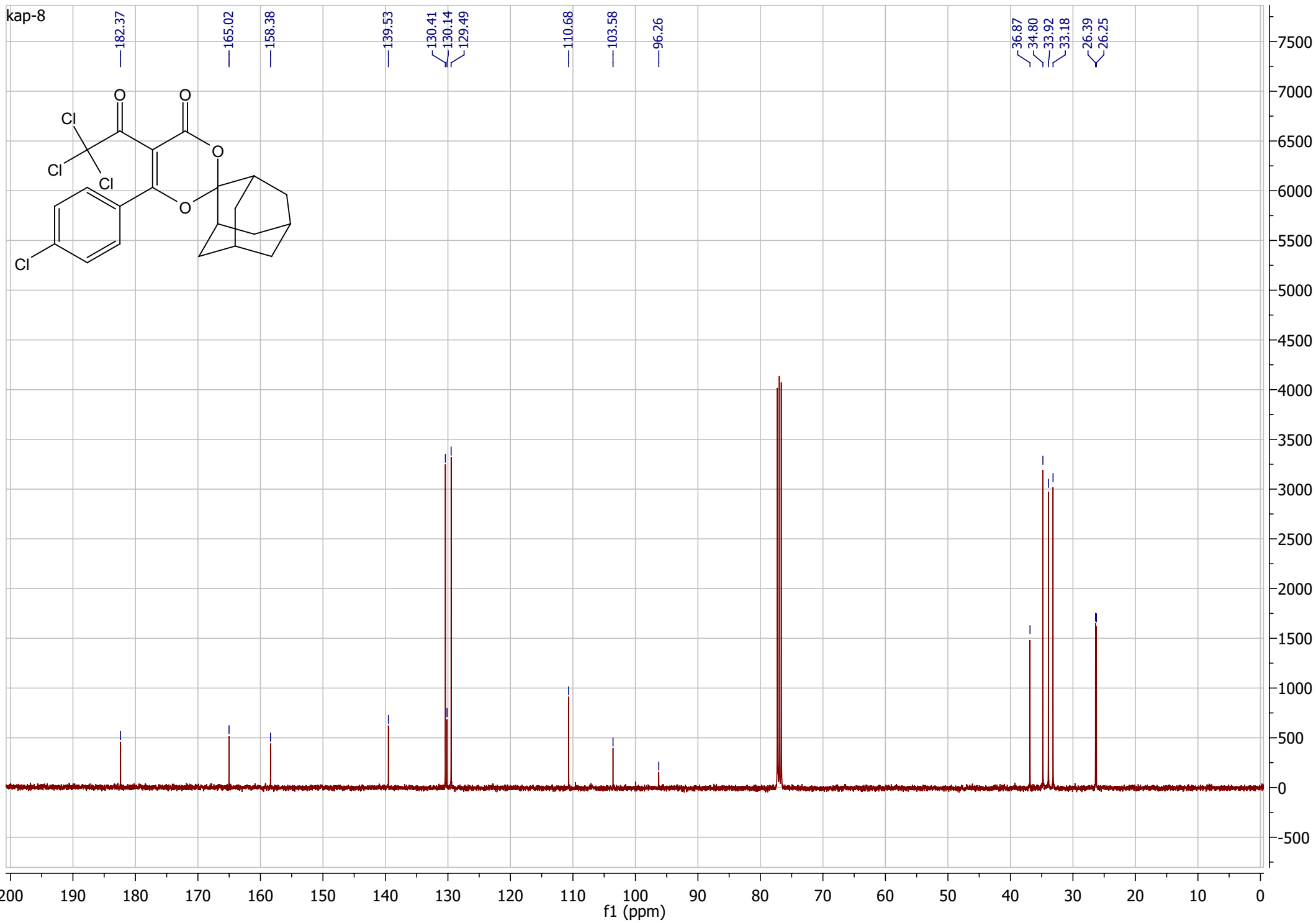
DB-57  
DB-57 13\_C  
CDCl3







kap-8



kap-15

