

# **Divergent synthesis of quinoxalin-2(1*H*)-one derivatives through photoinduced C-H functionalization without photocatalyst**

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College of Material Chemistry and Chemical Engineering, Key Laboratory of Organosilicon Chemistry and Material Technology, Ministry of Education, Hangzhou Normal University, Hangzhou 311121 (China).

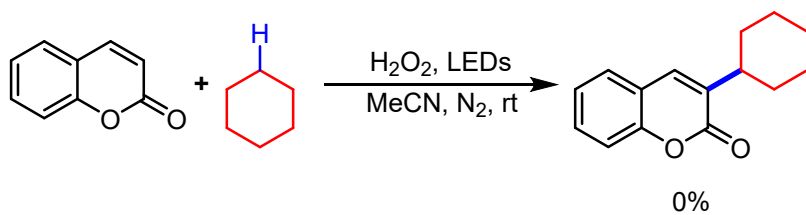
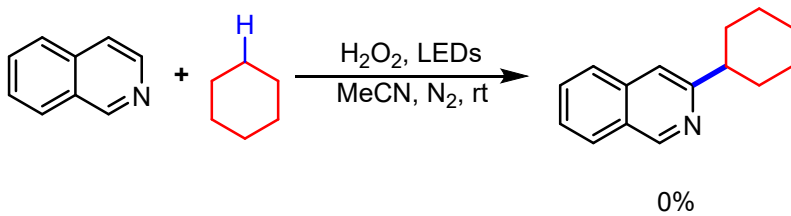
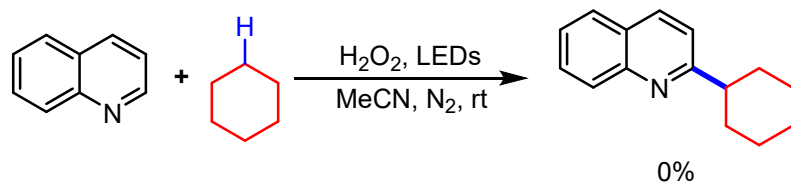
E-mail: liwanmei@hznu.edu.cn.

## **Supporting Information**

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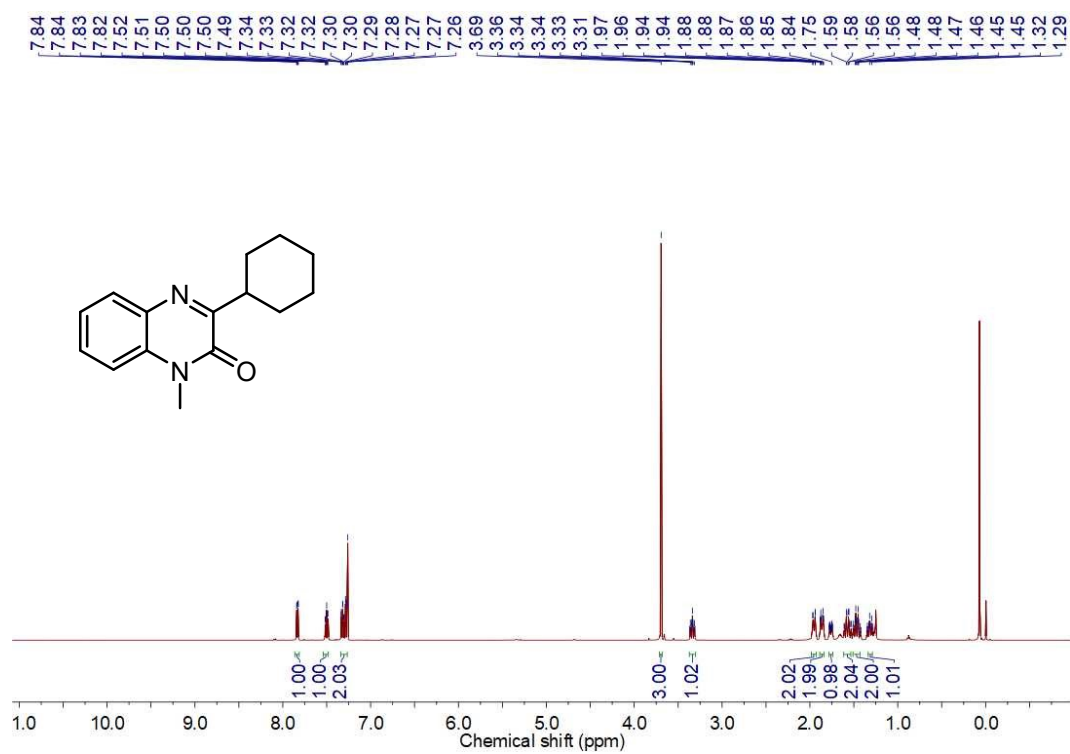
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## 1. Ineffective transformations

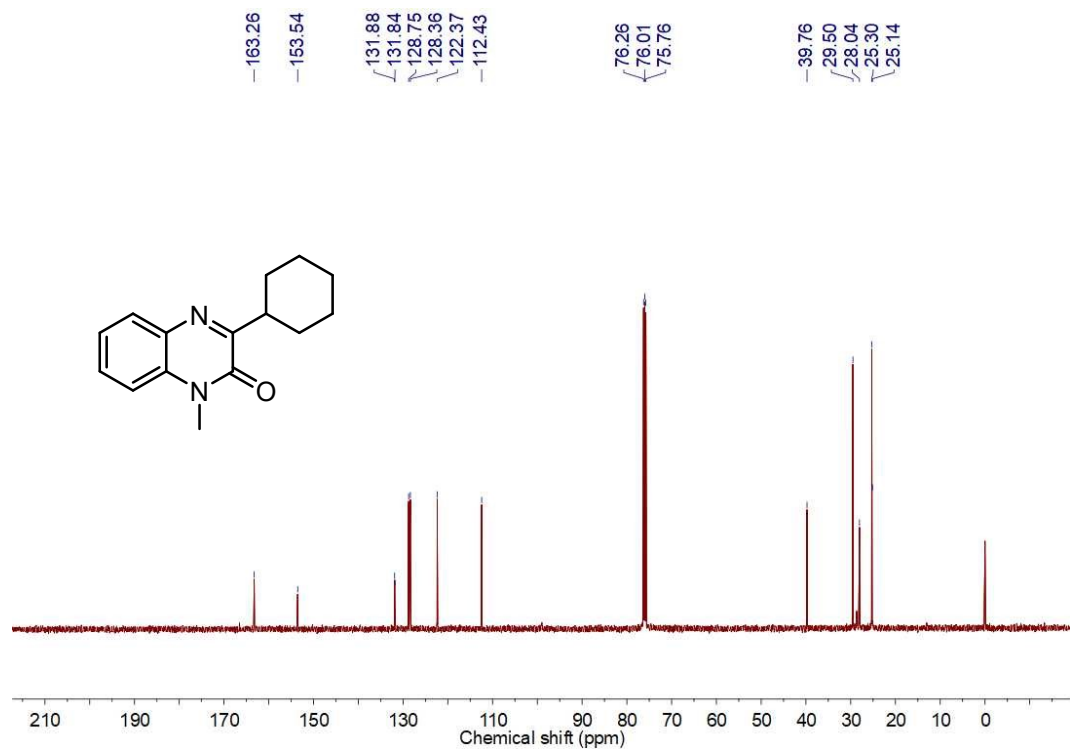


## 2. Copies of NMR spectra

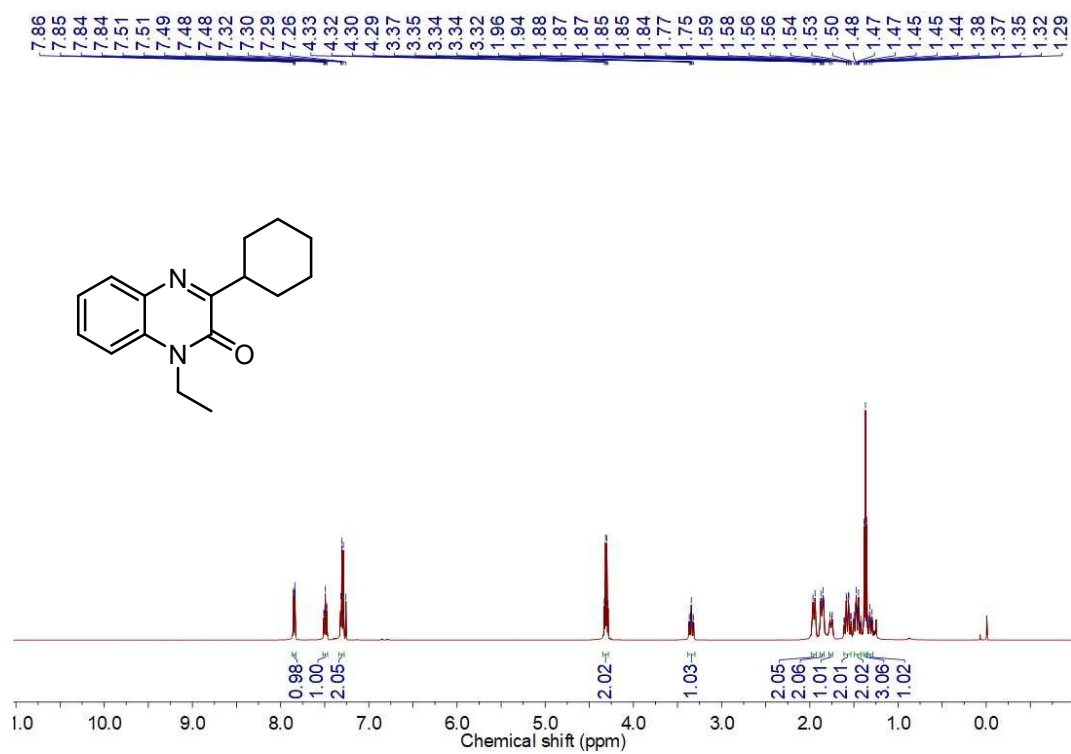
### 3a $^1\text{H}$ NMR



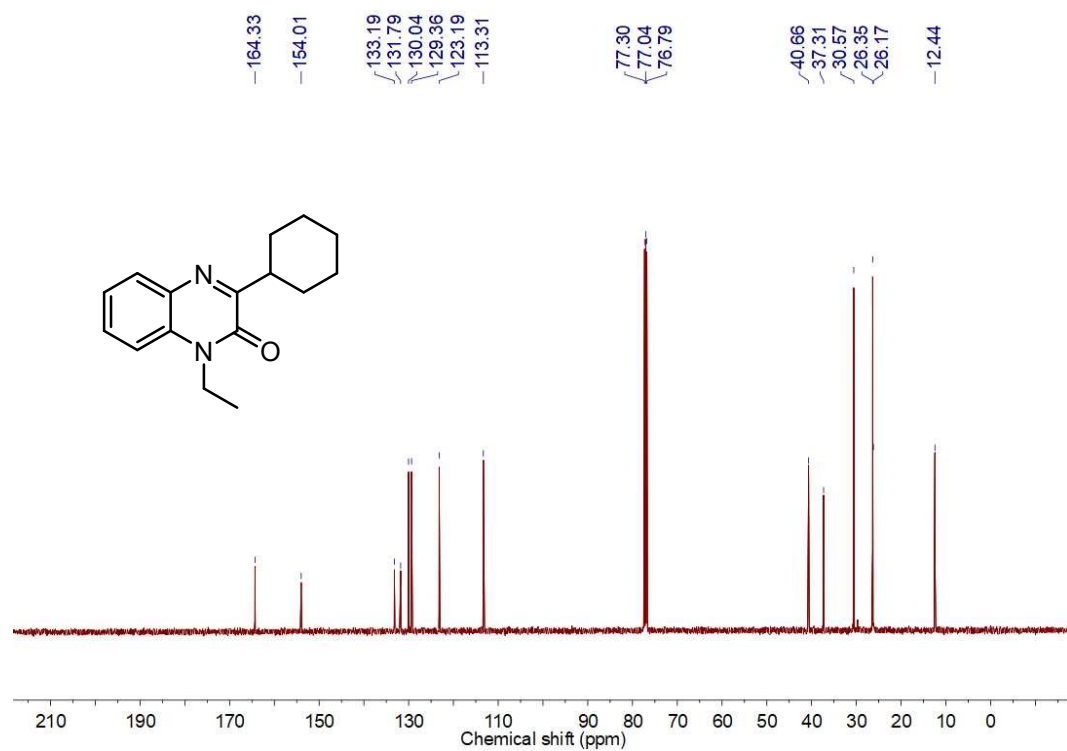
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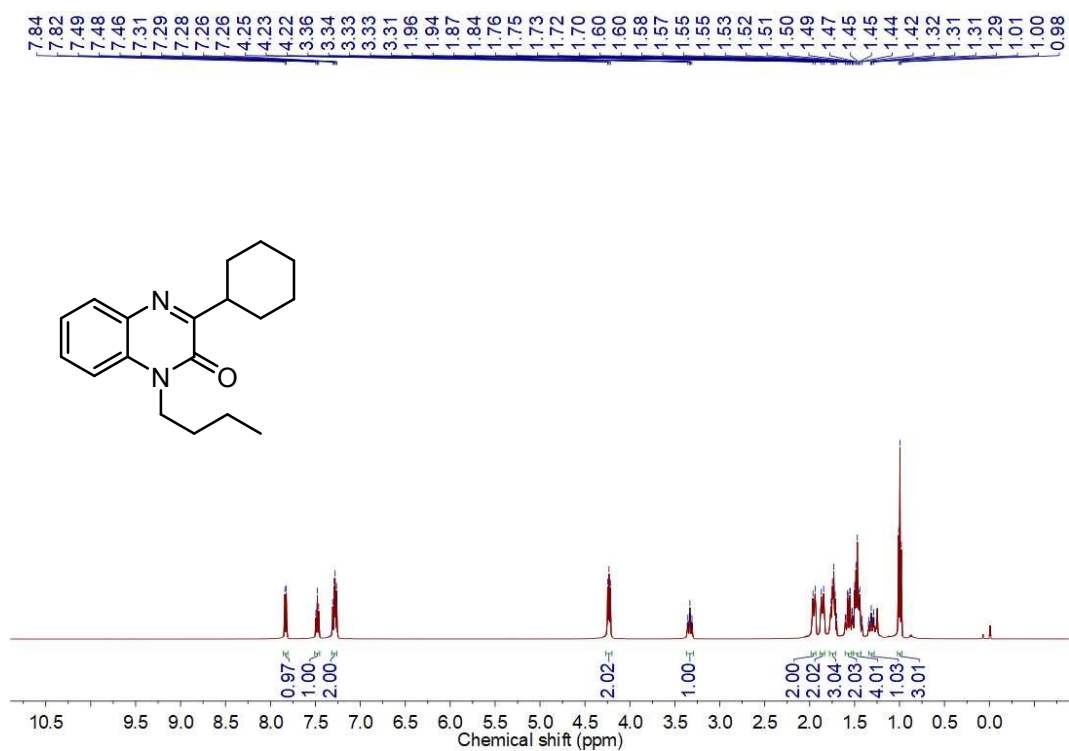
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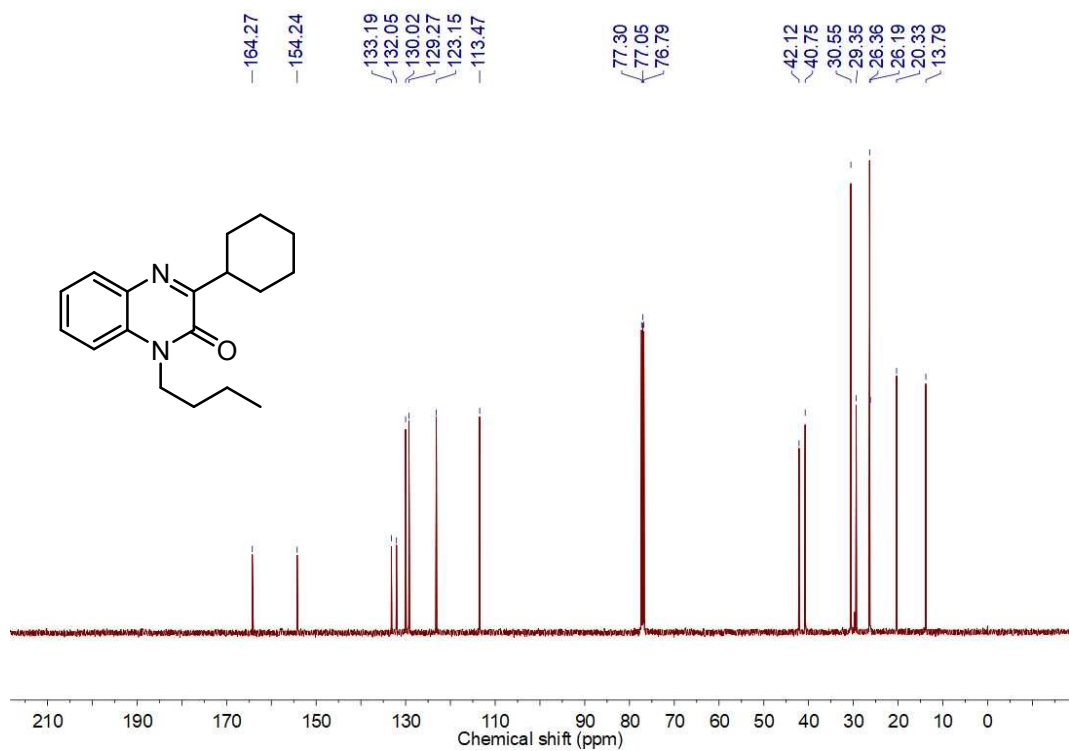
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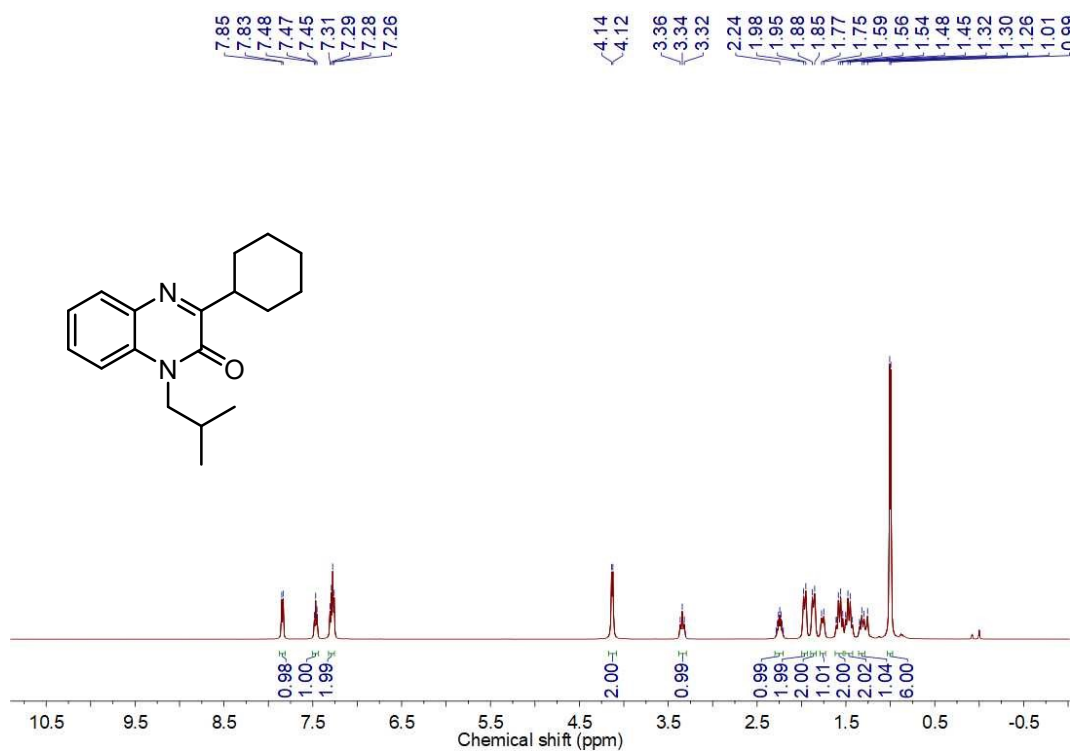
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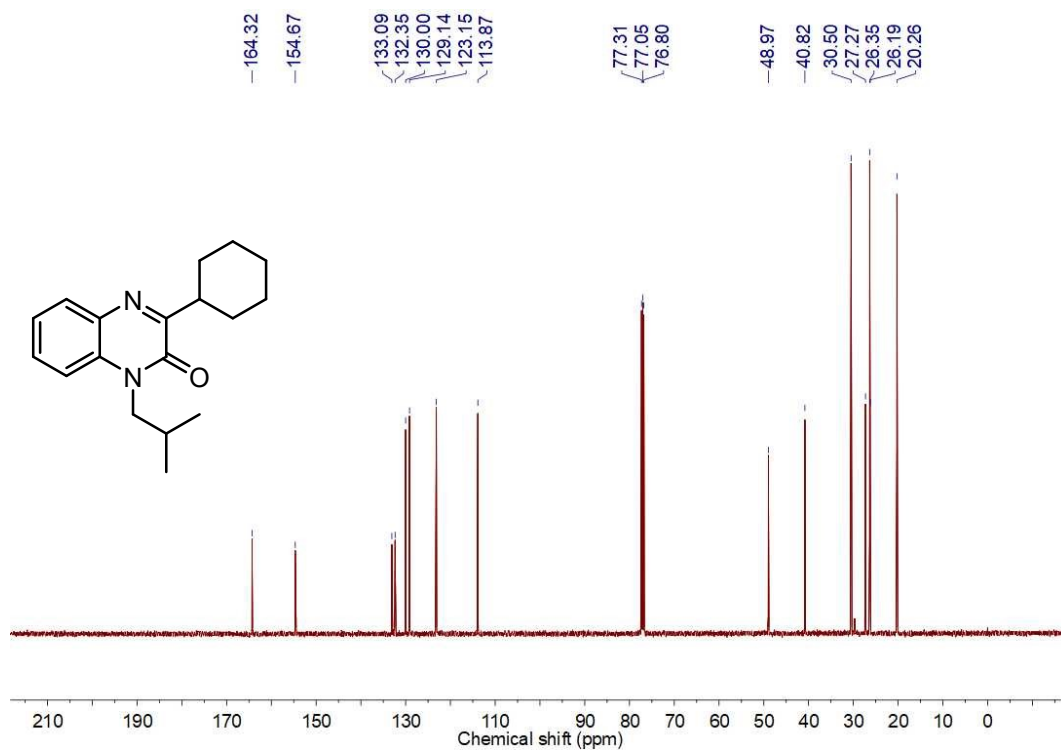
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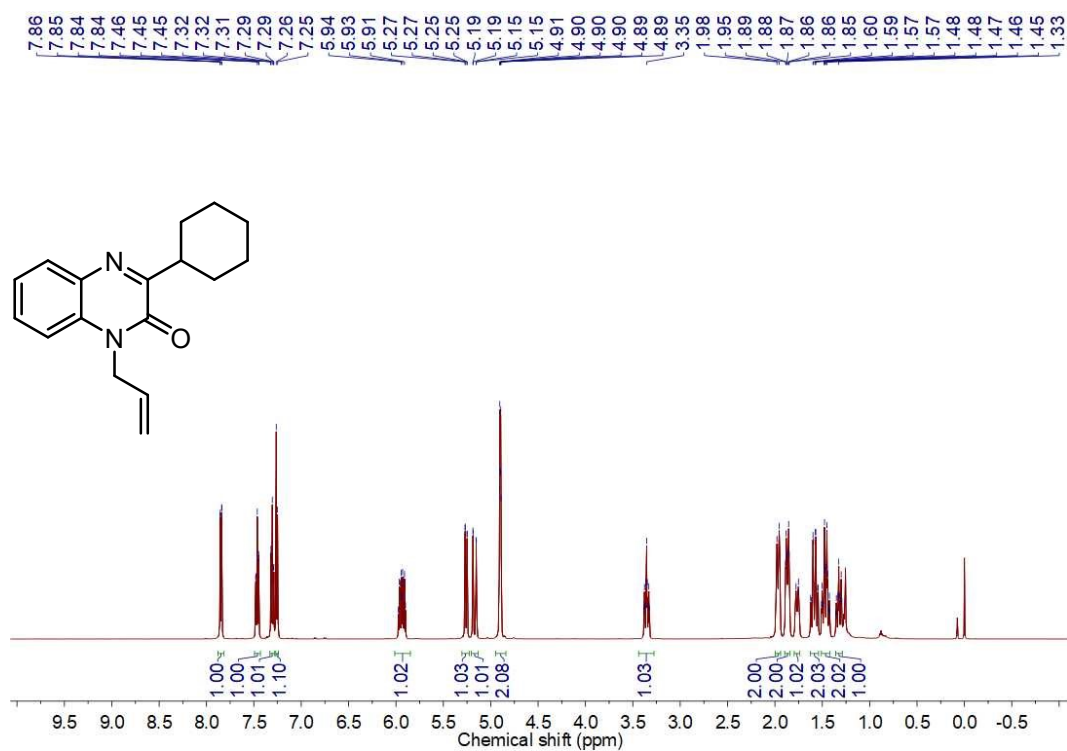
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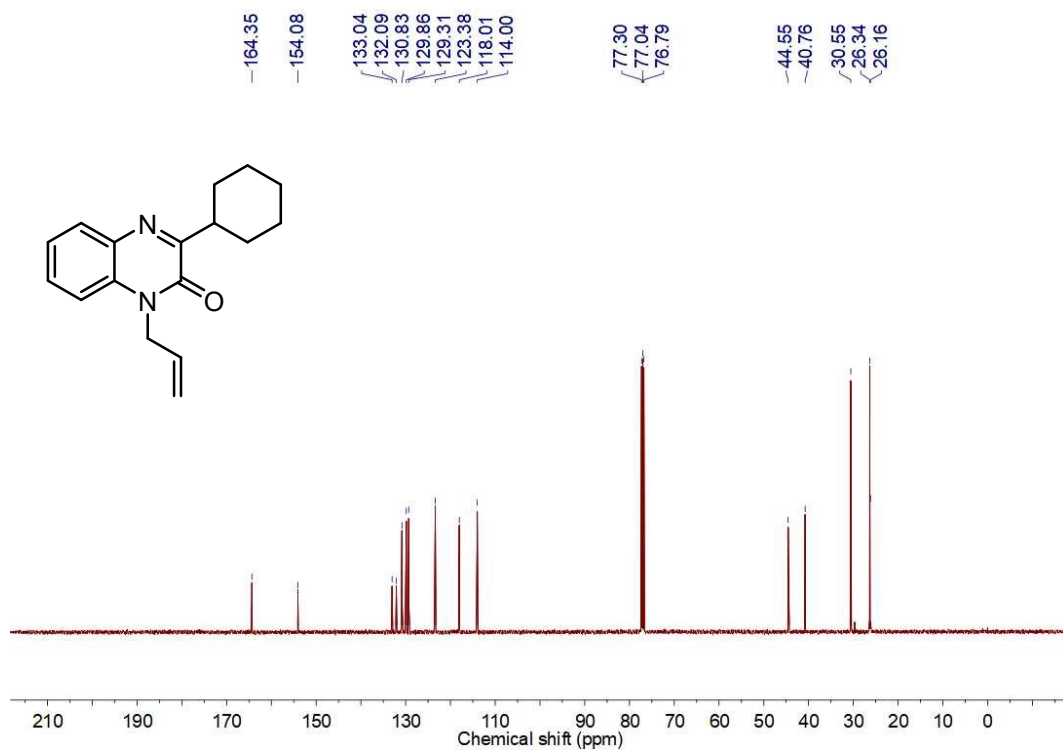
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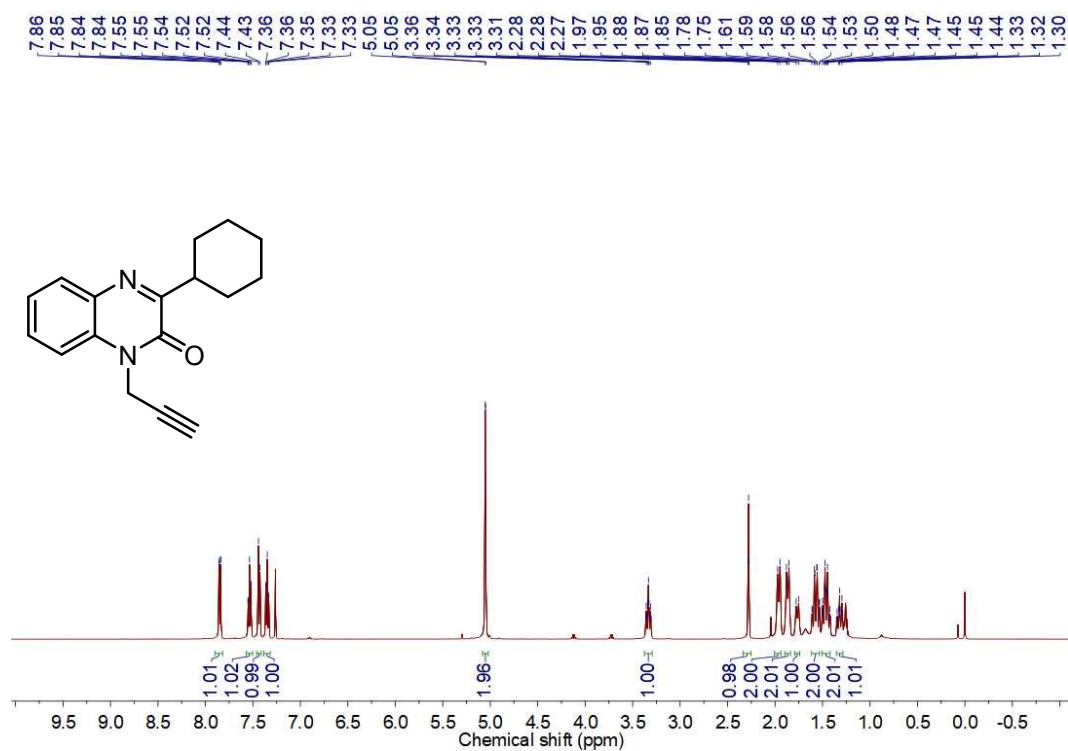
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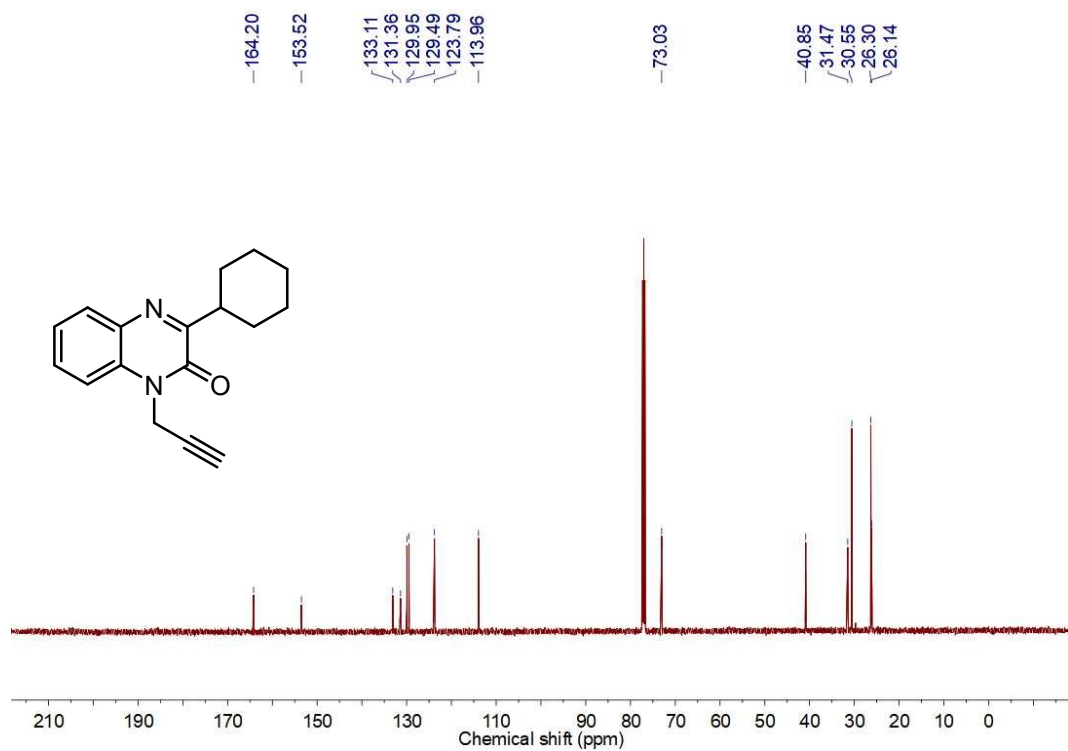
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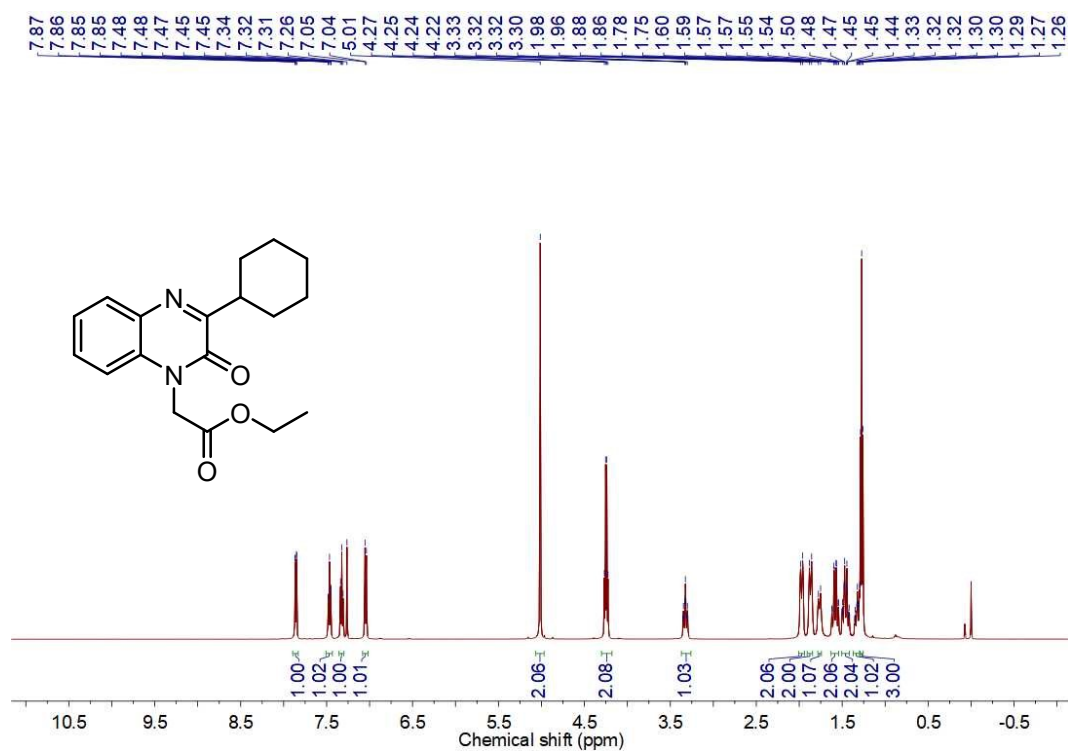
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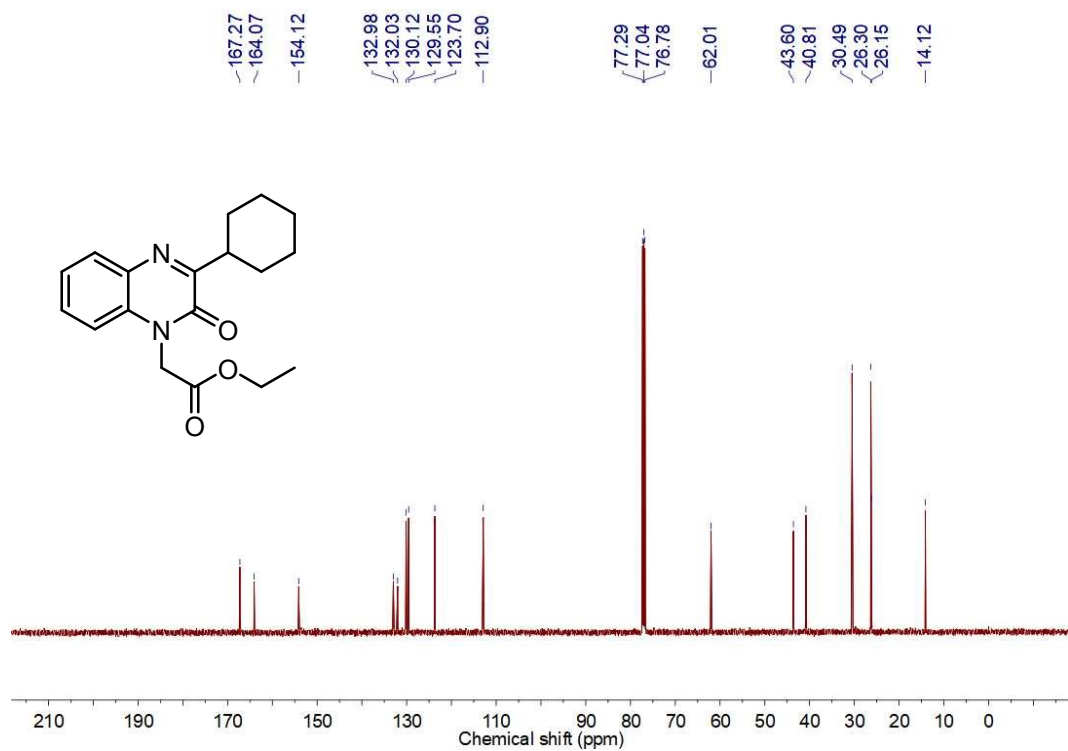
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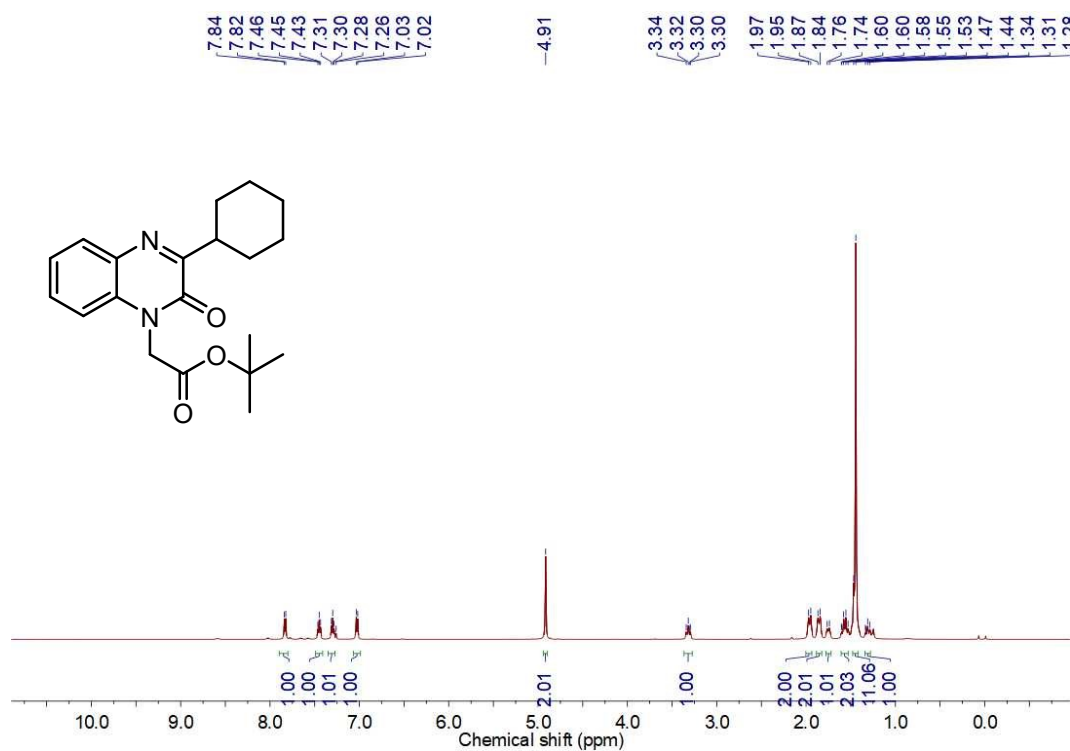
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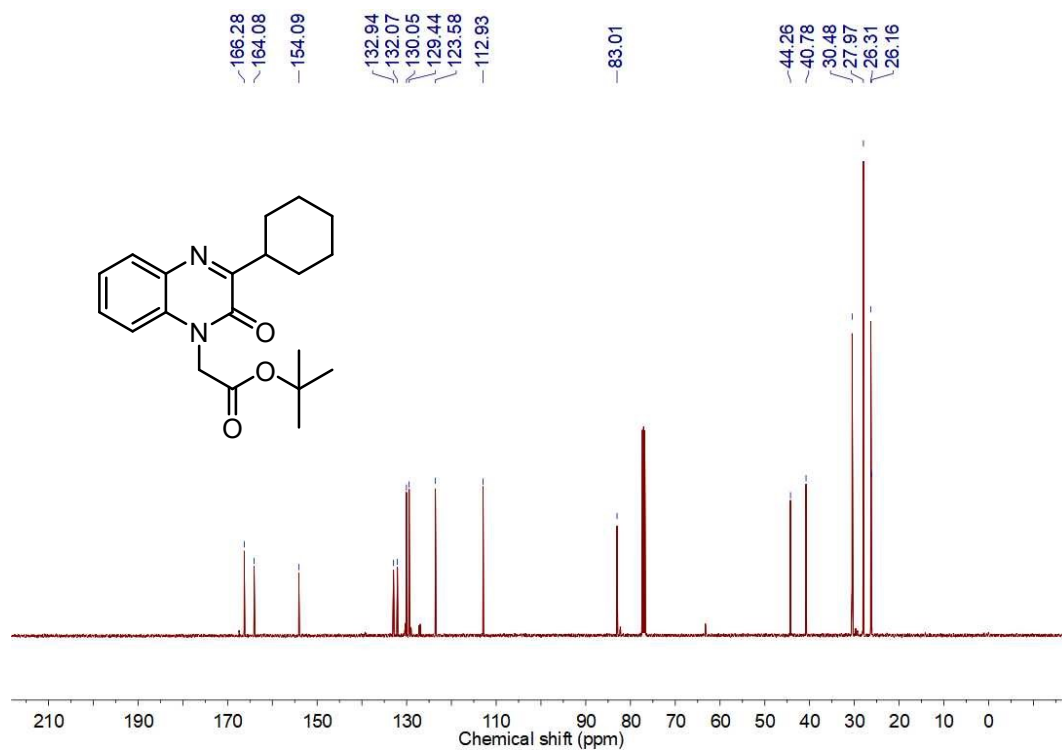
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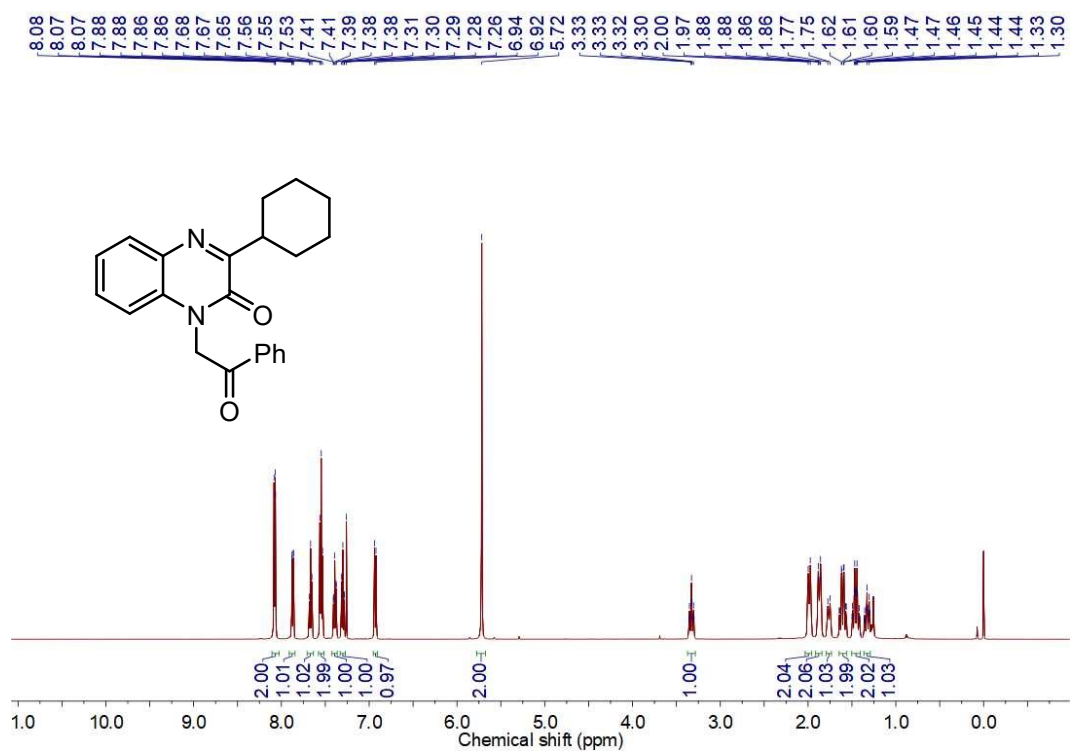
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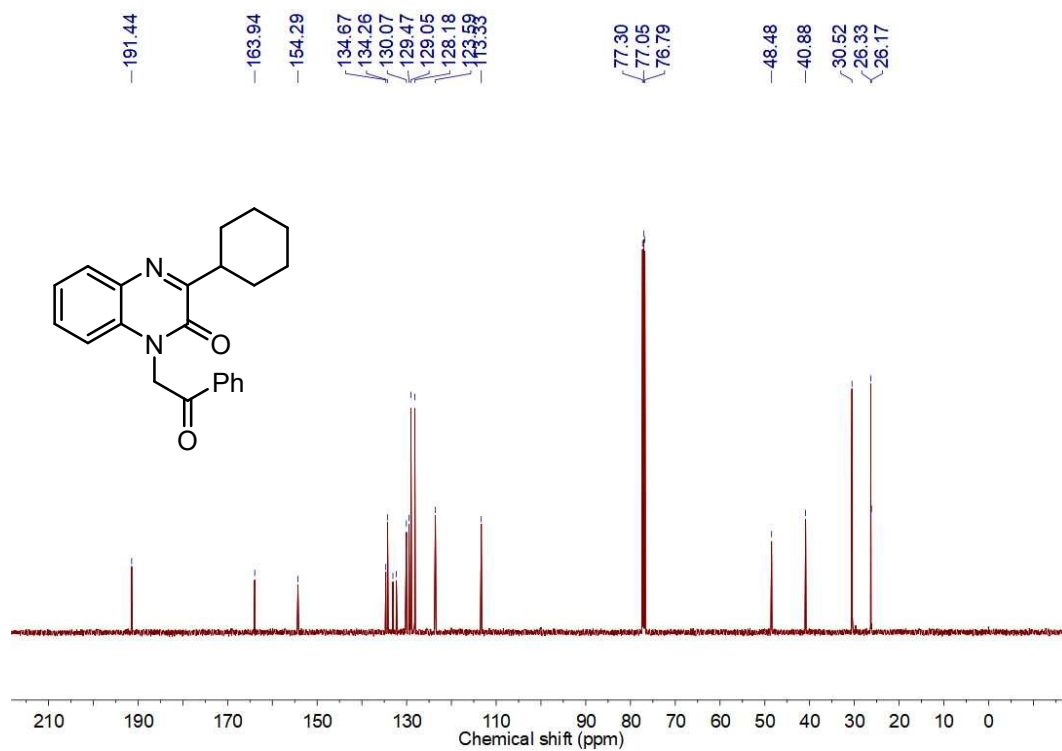
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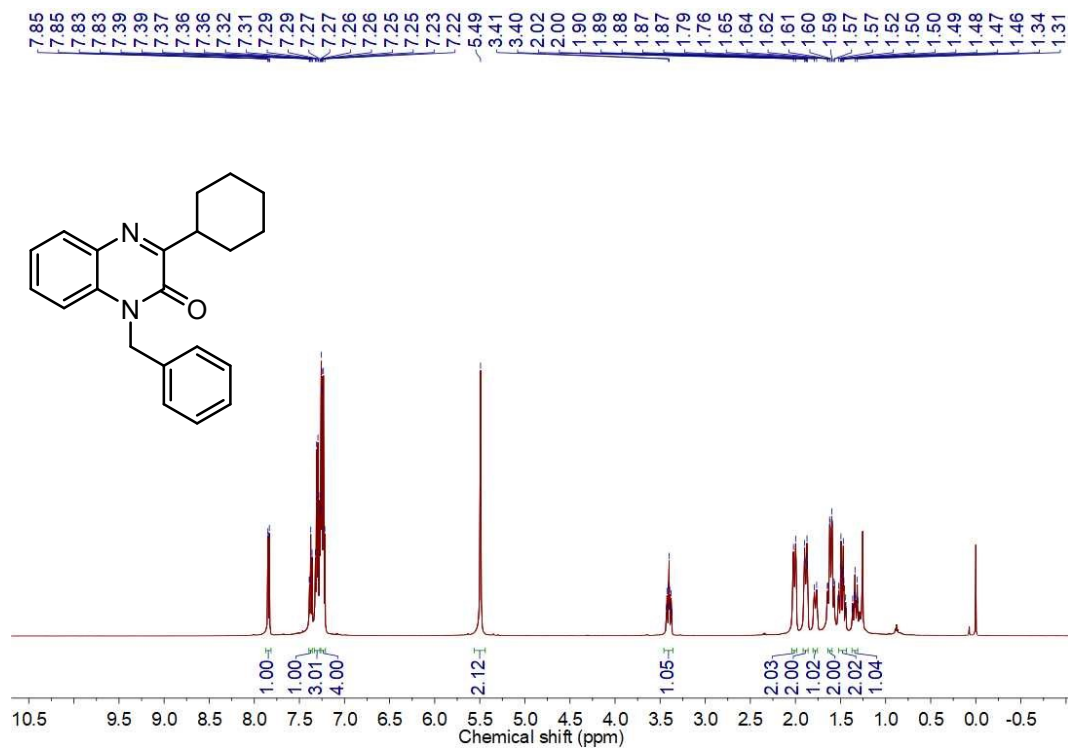
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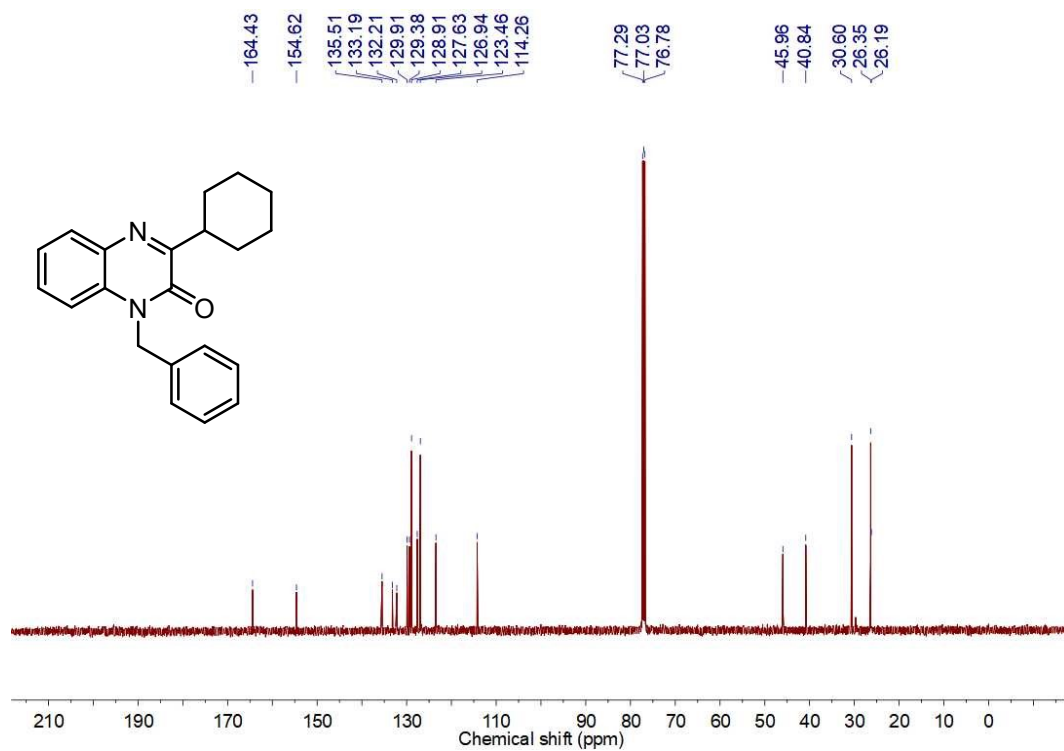
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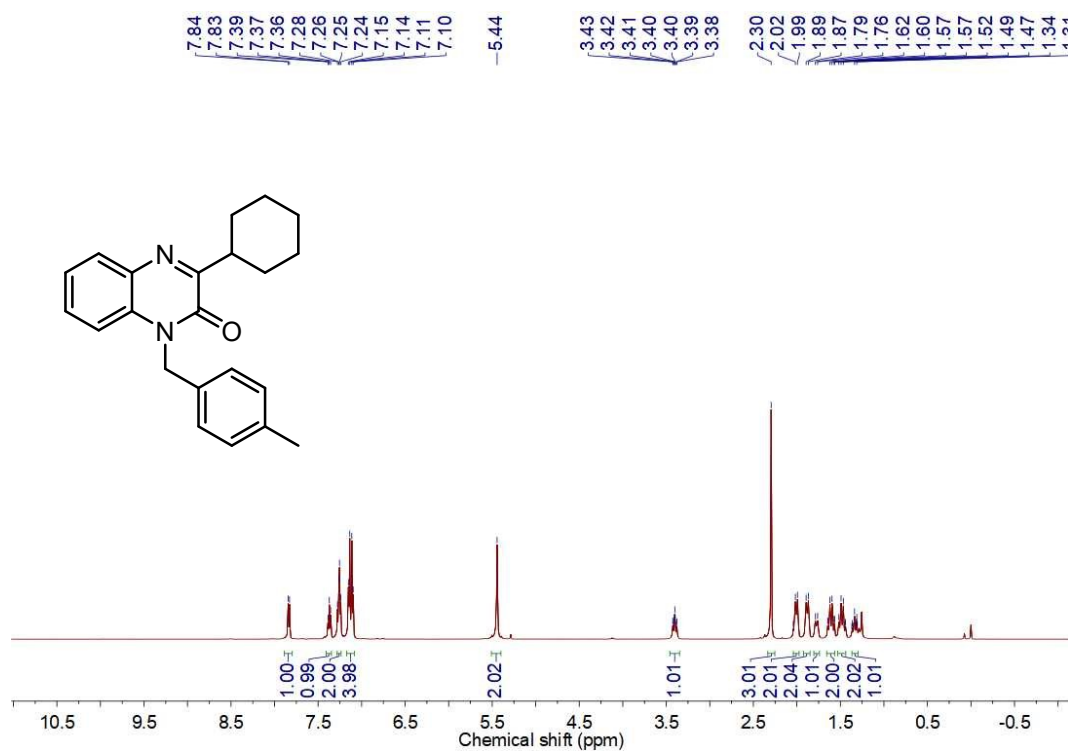
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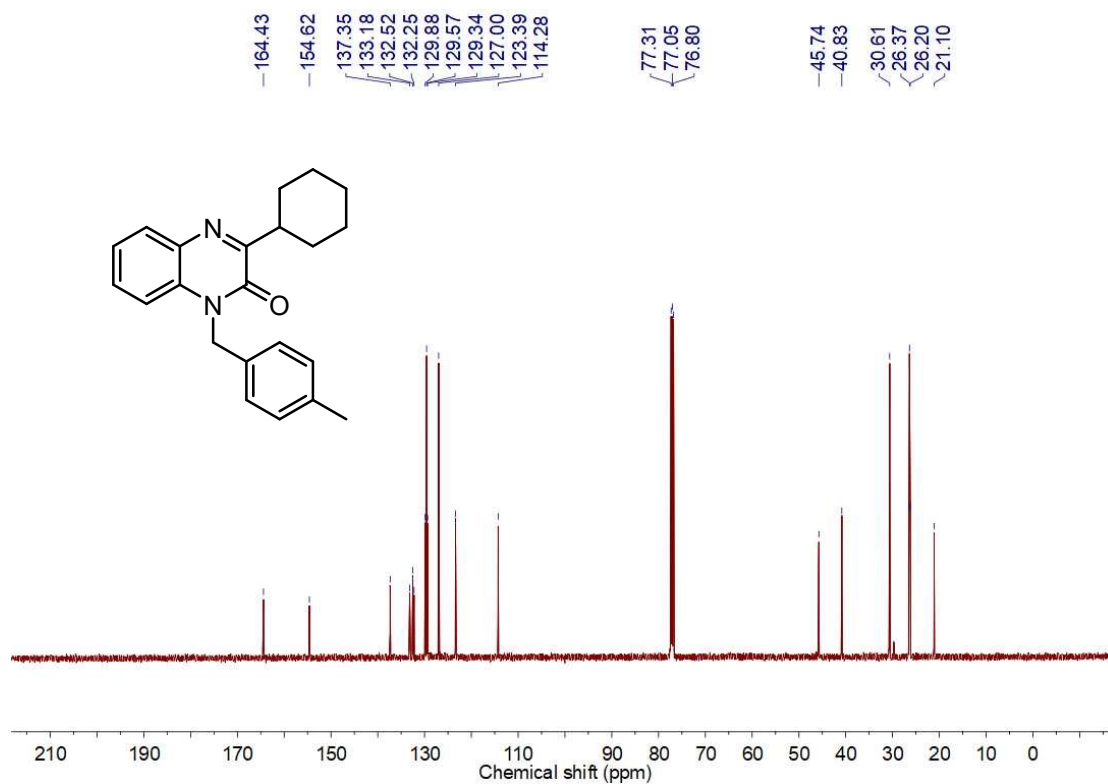
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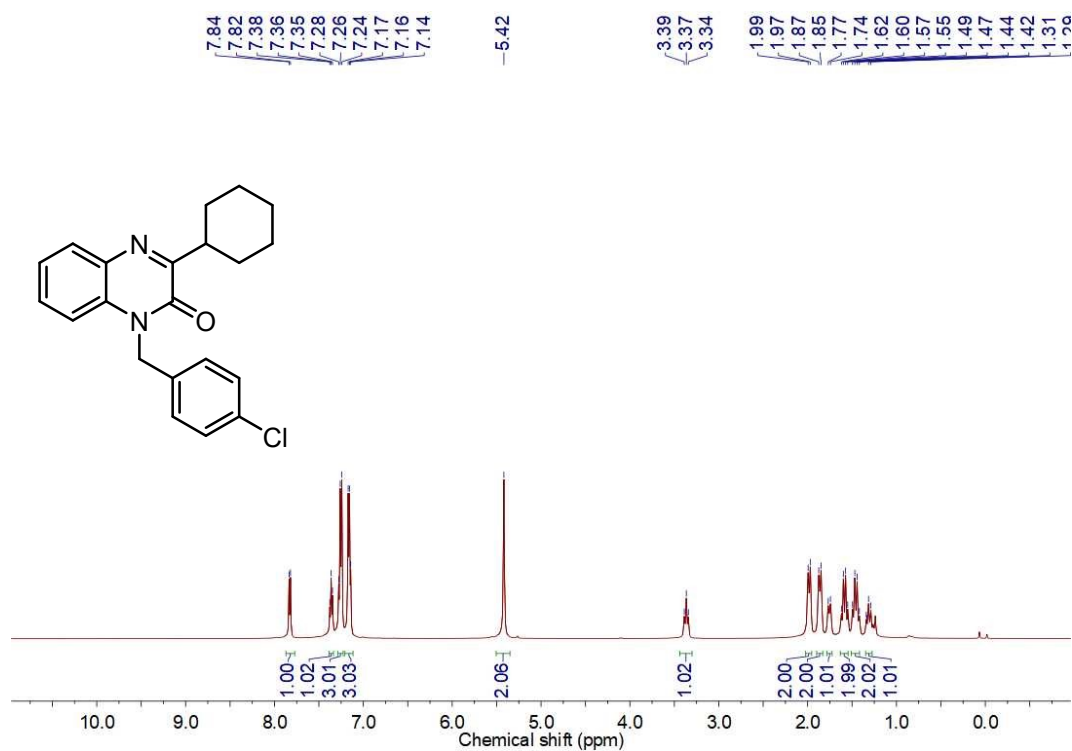
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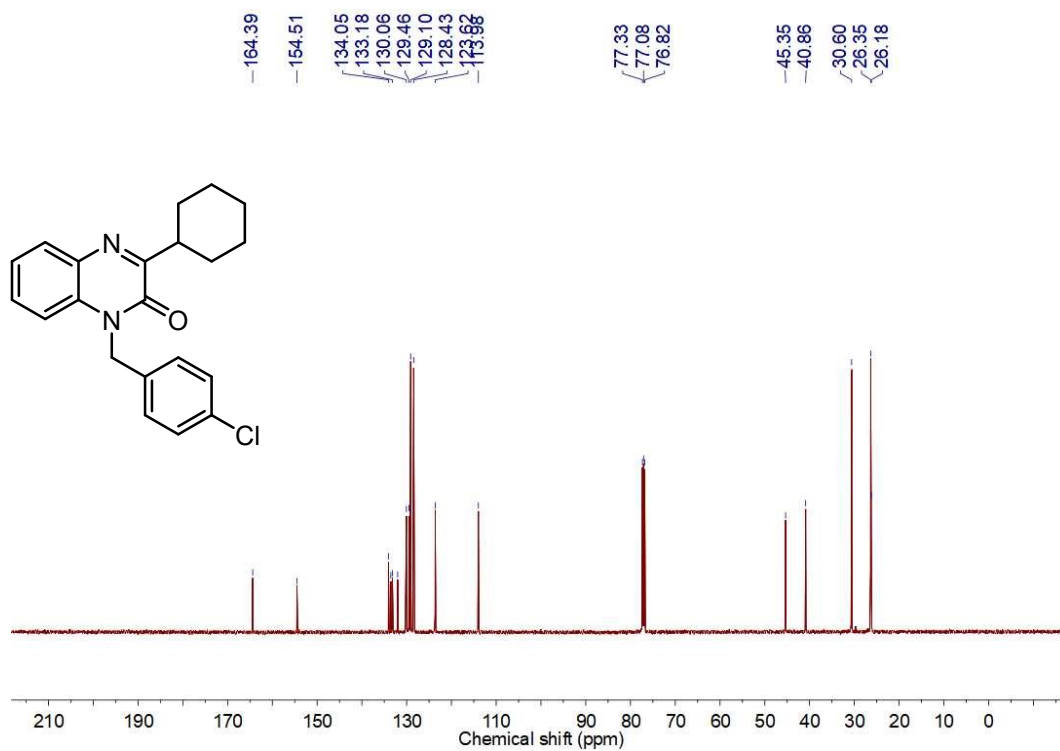
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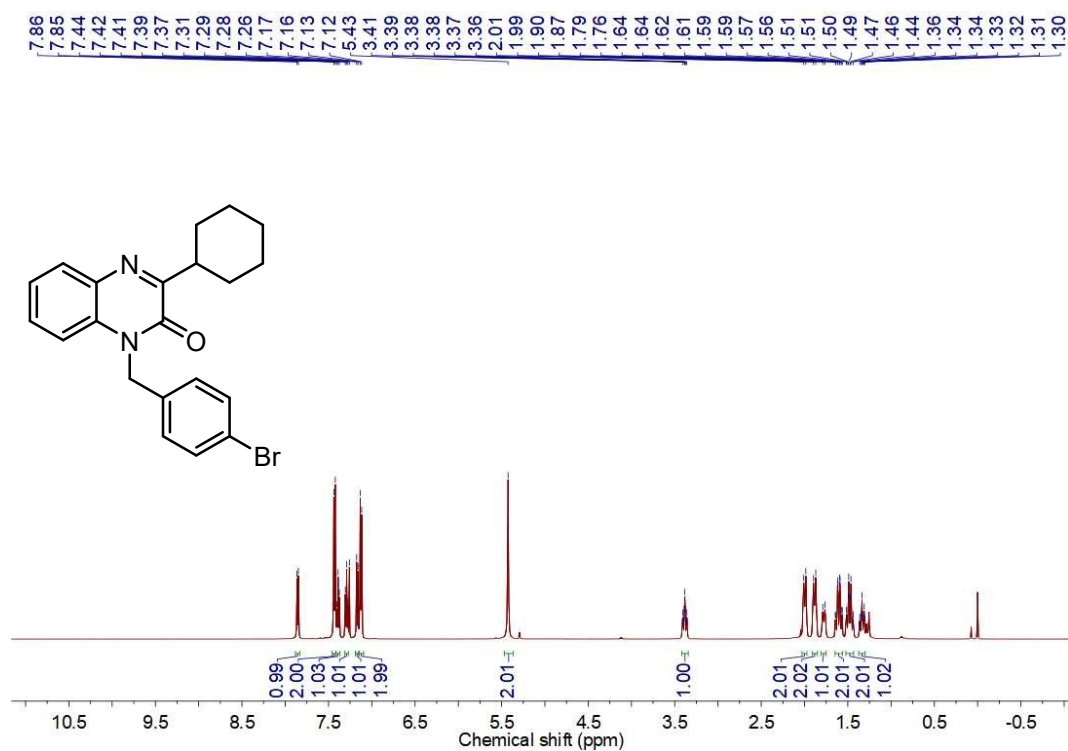
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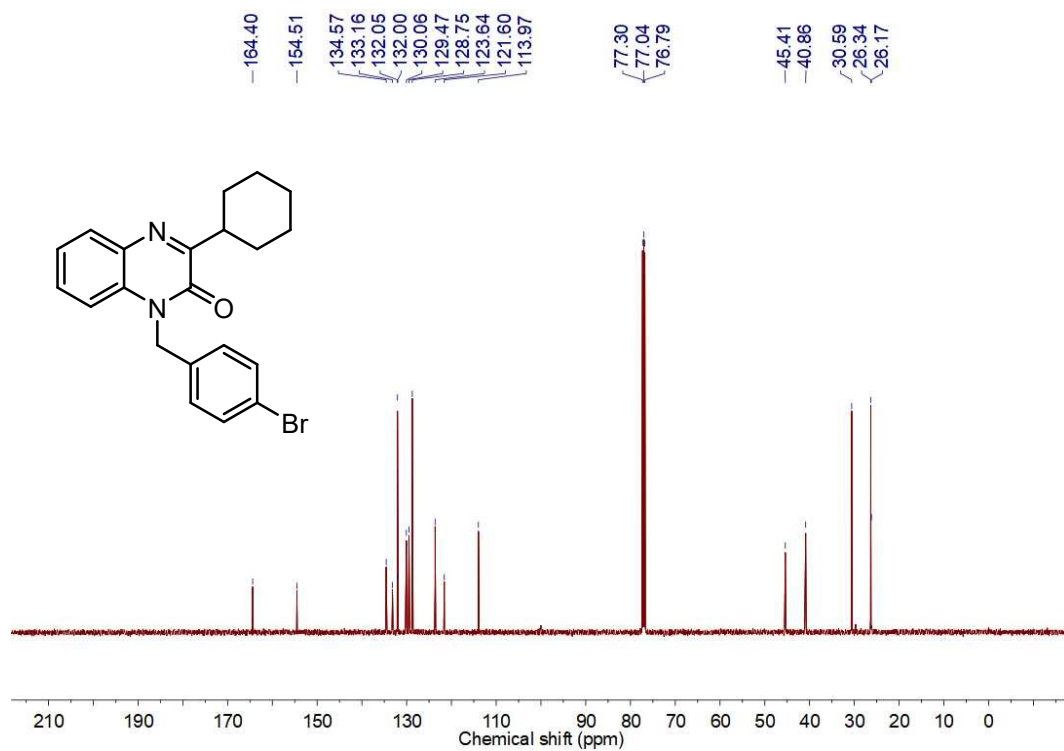
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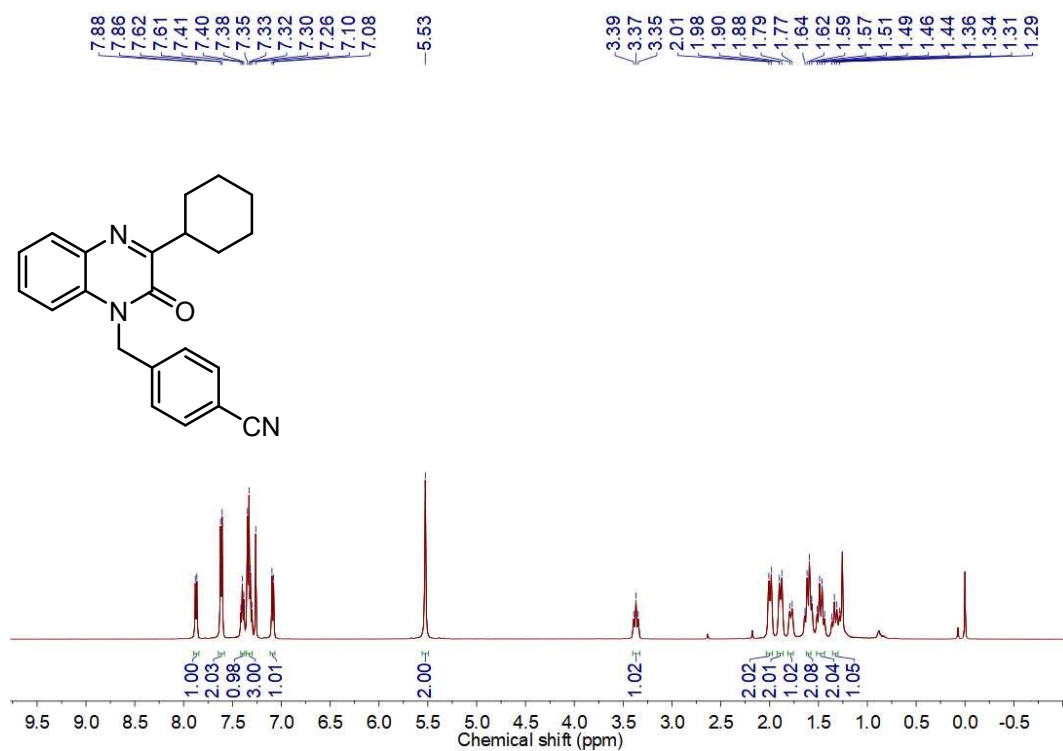
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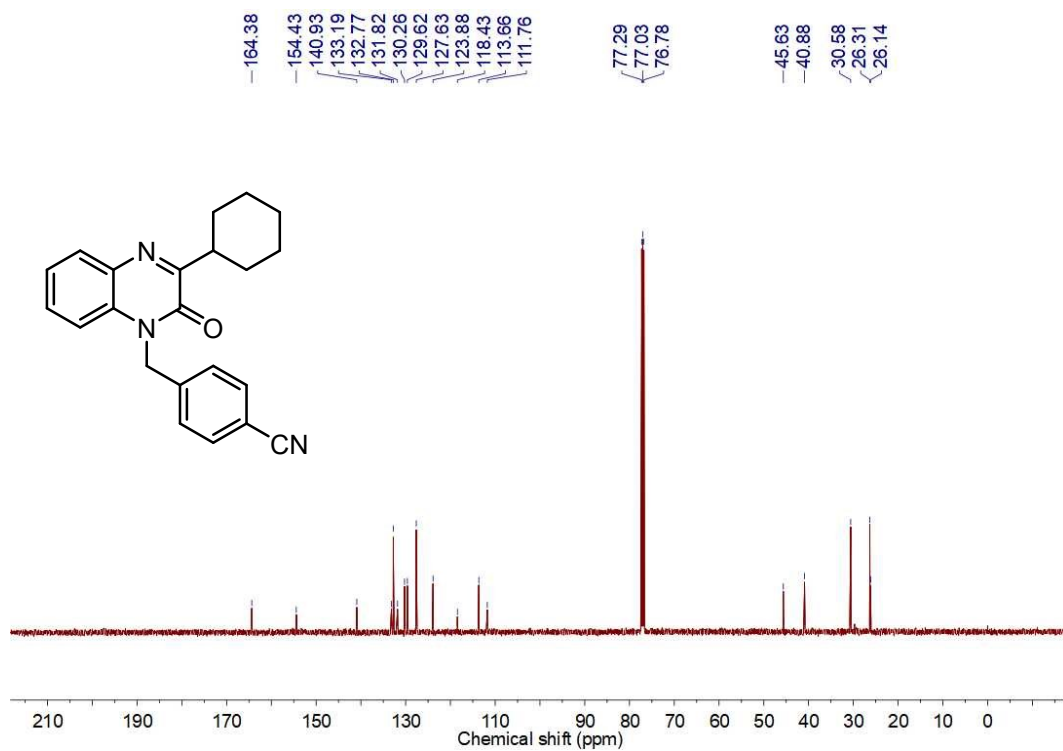
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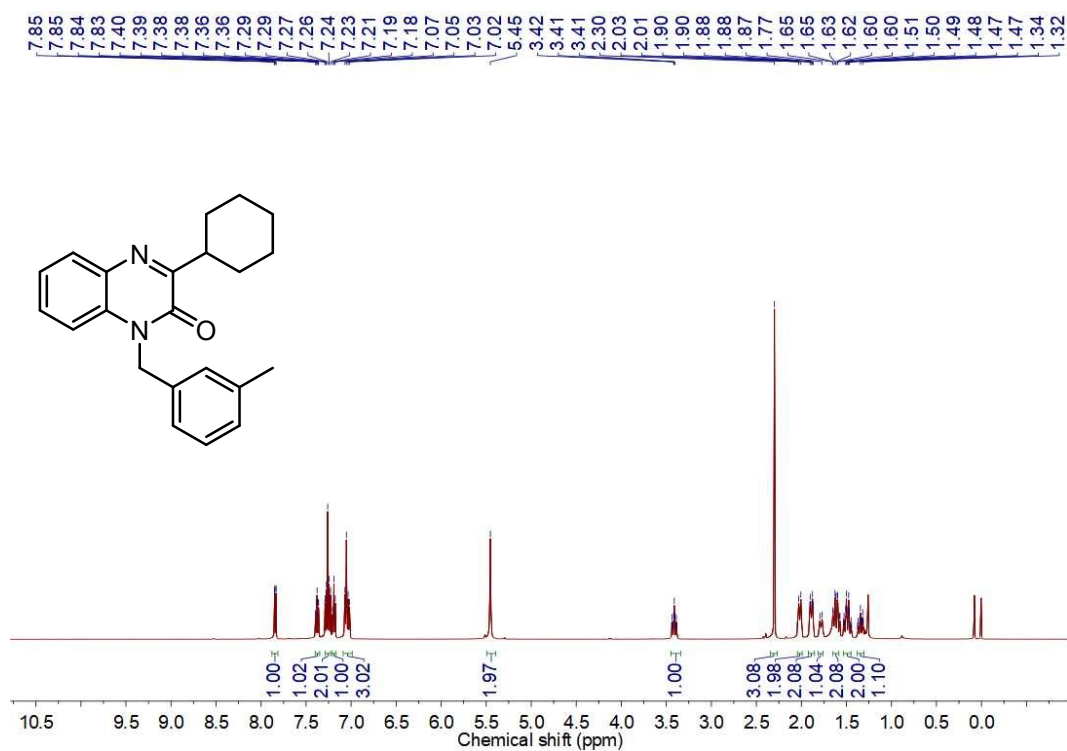
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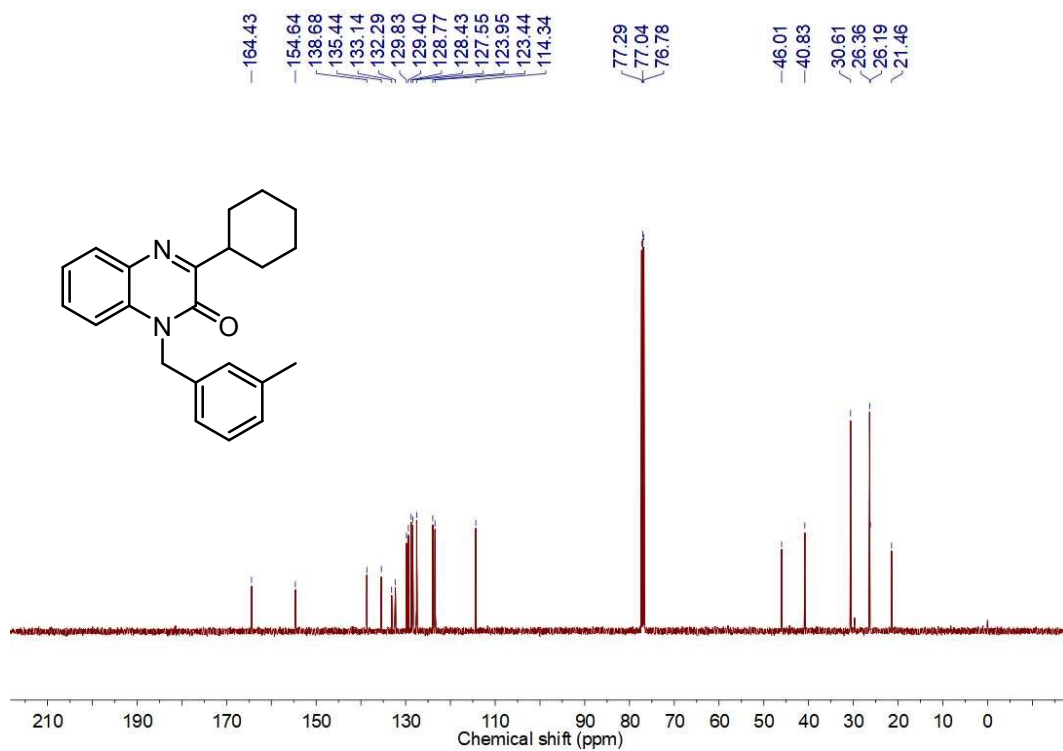
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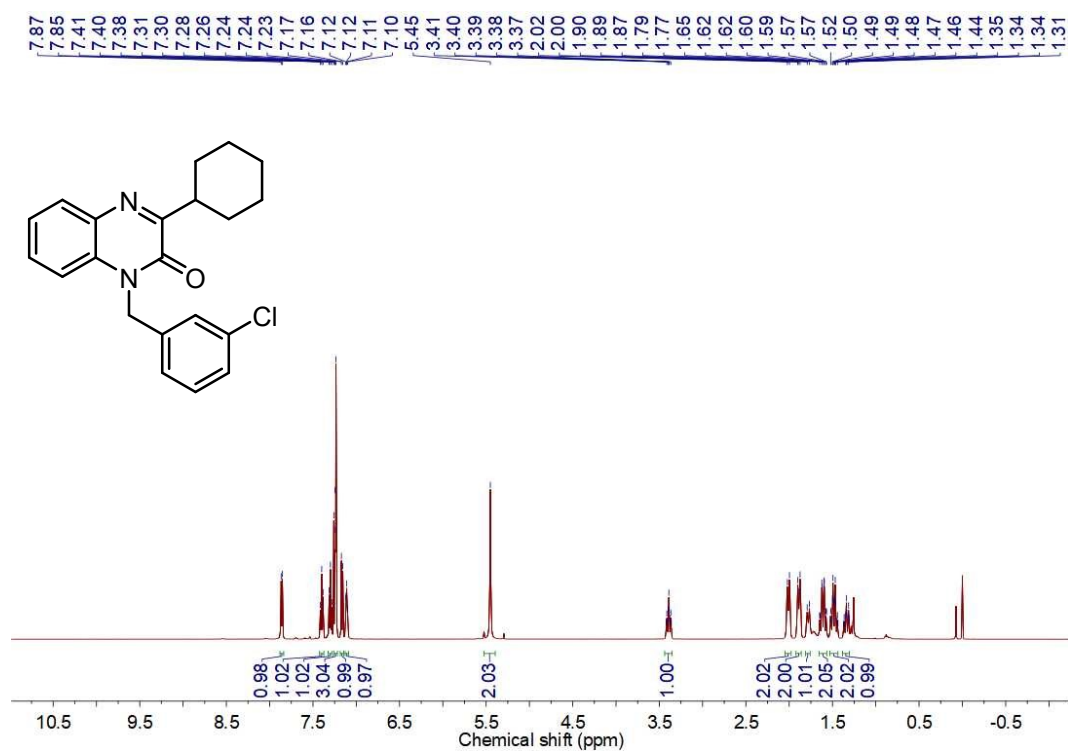
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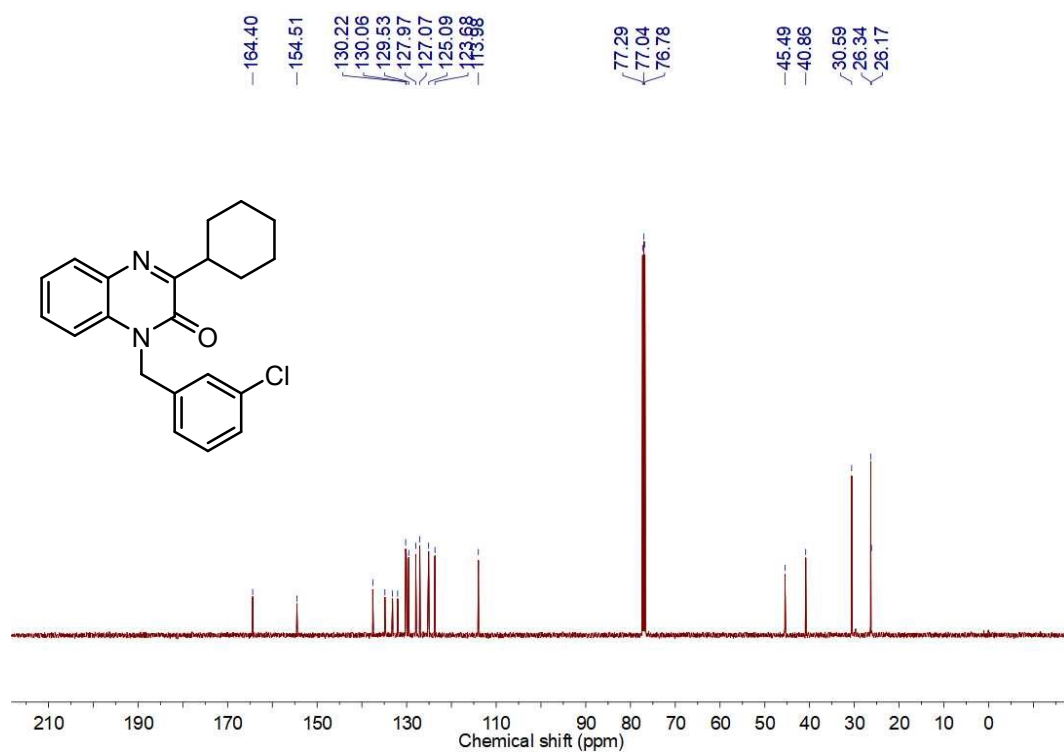
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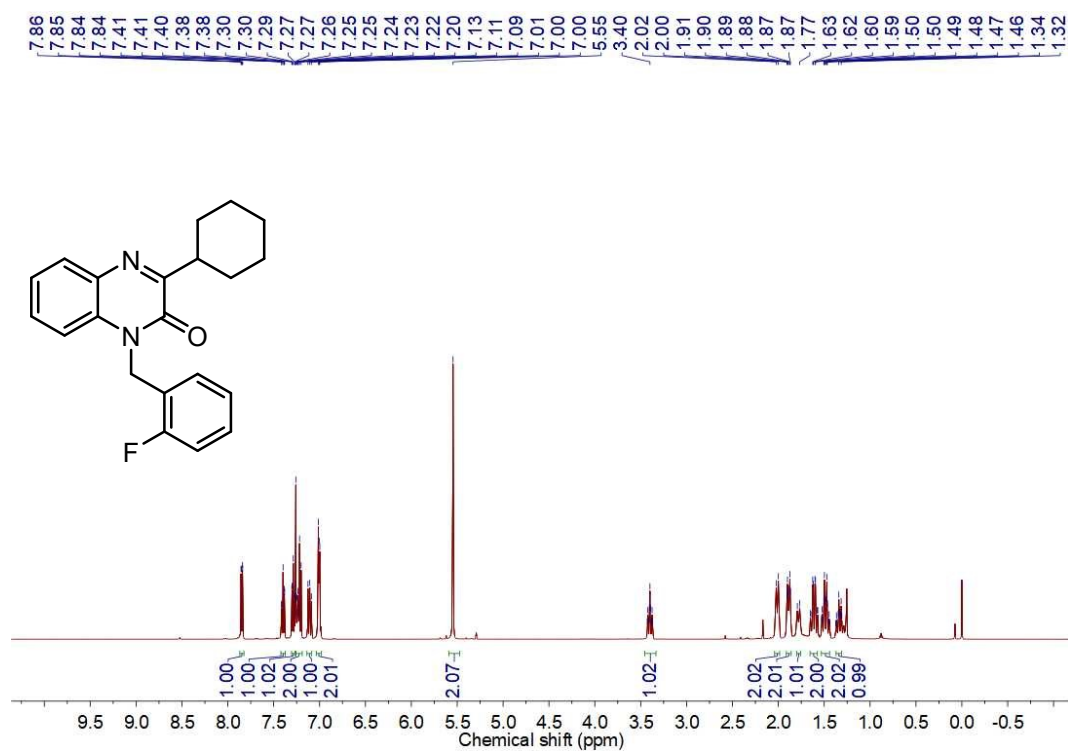
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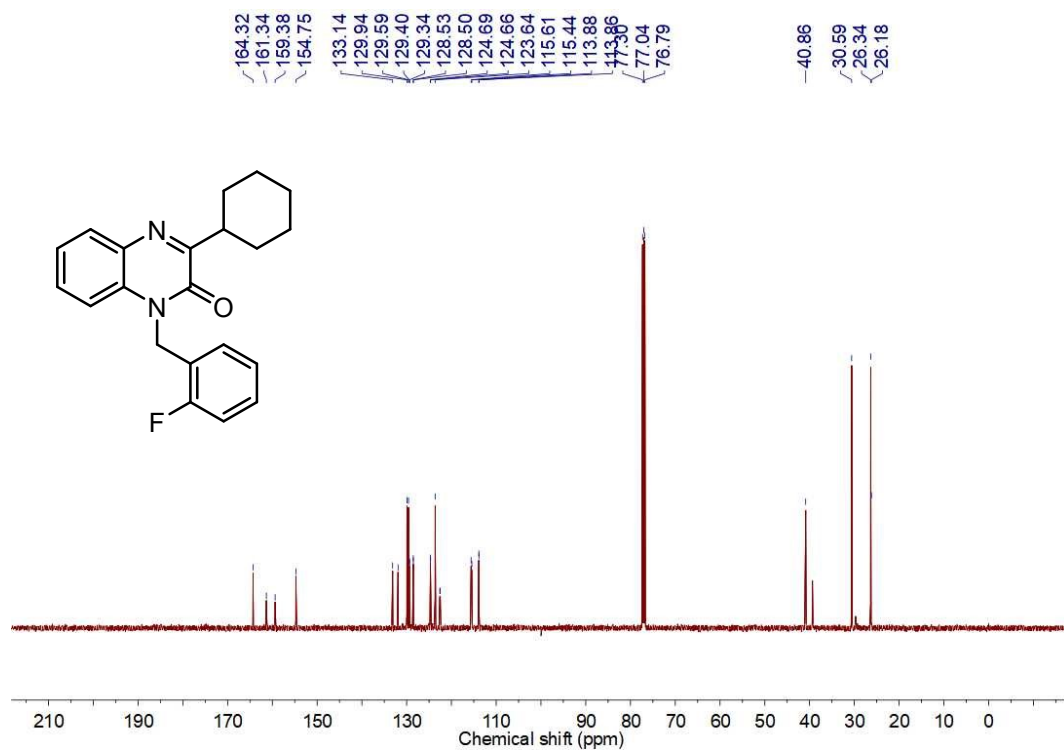
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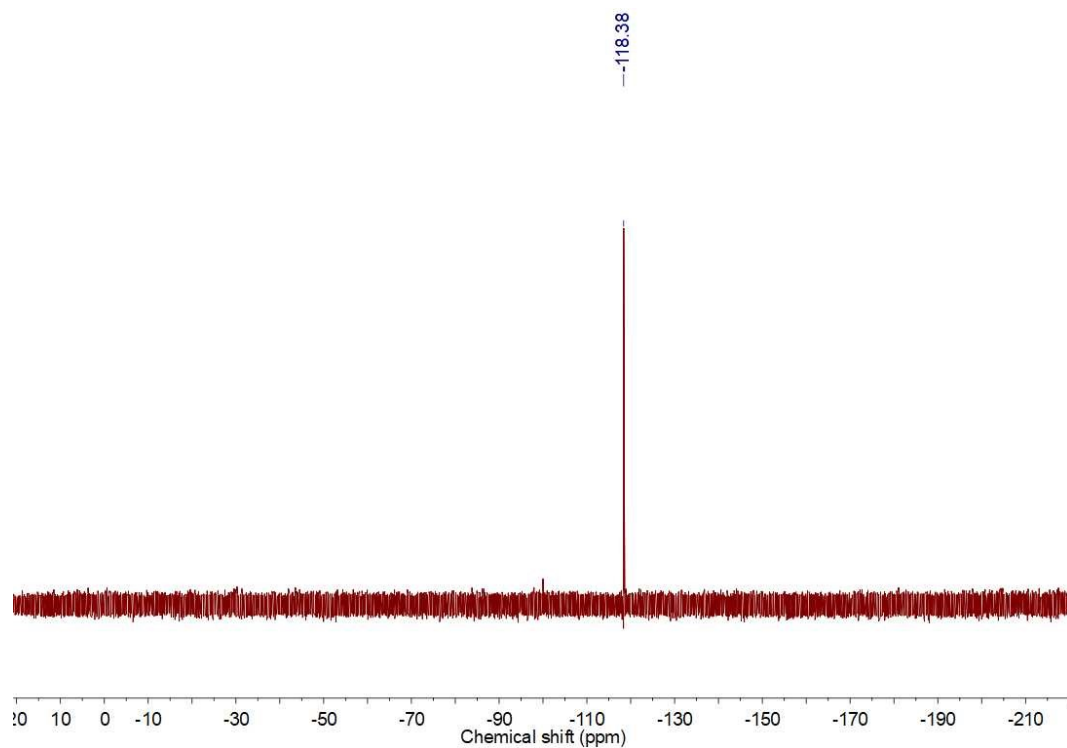
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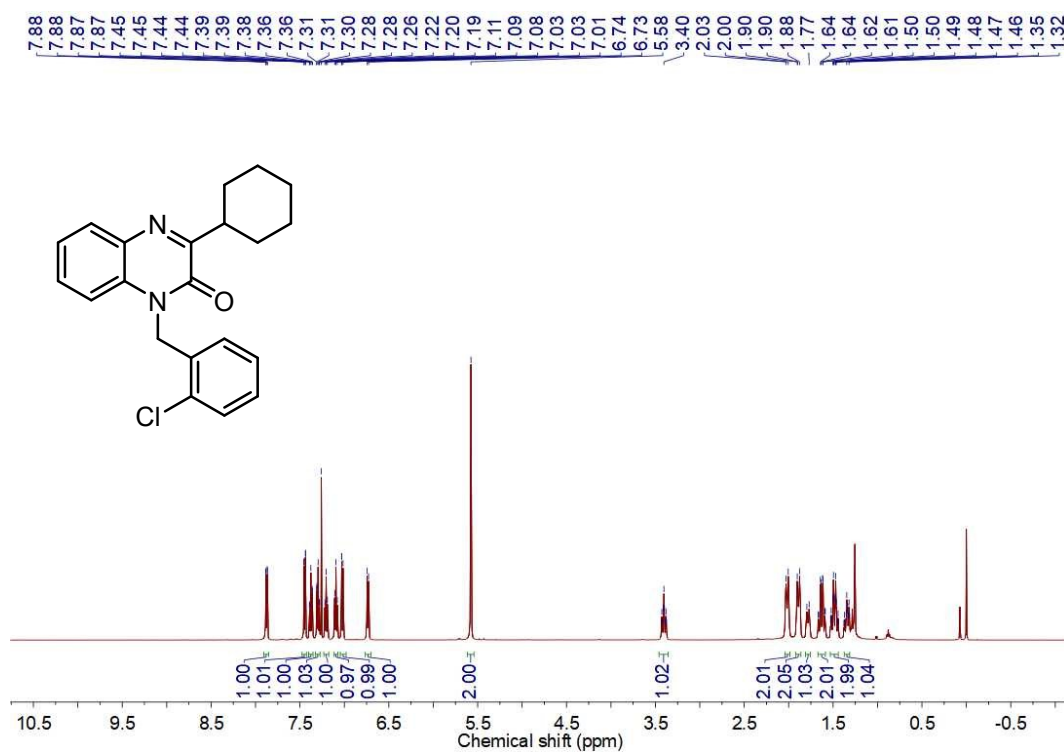
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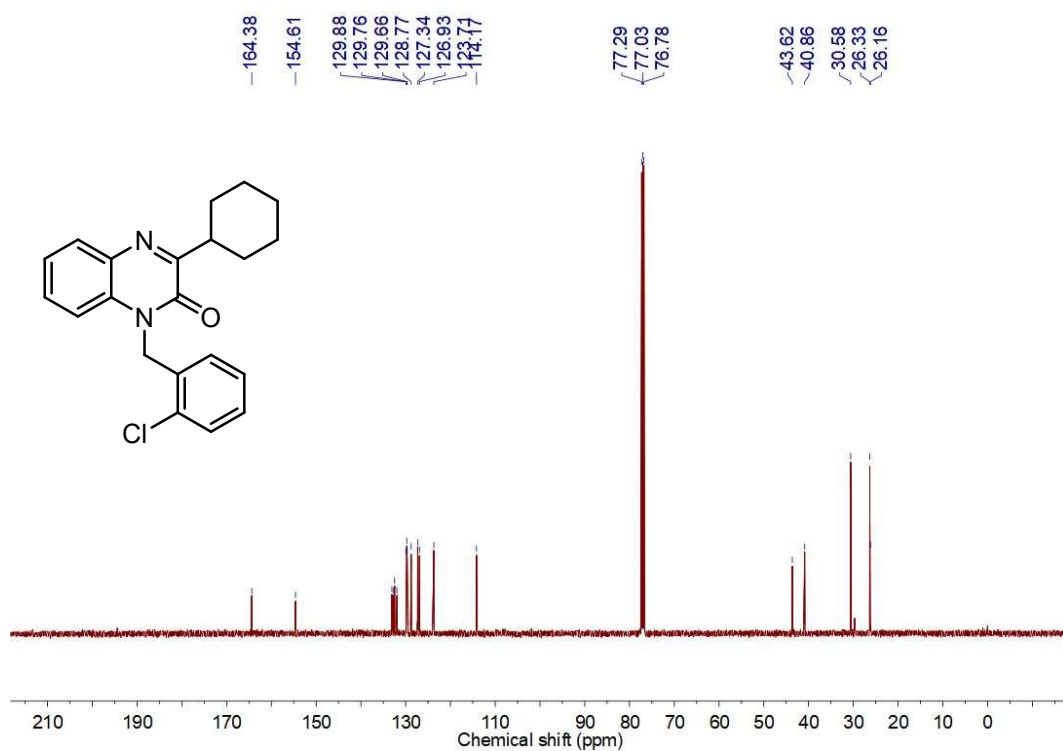
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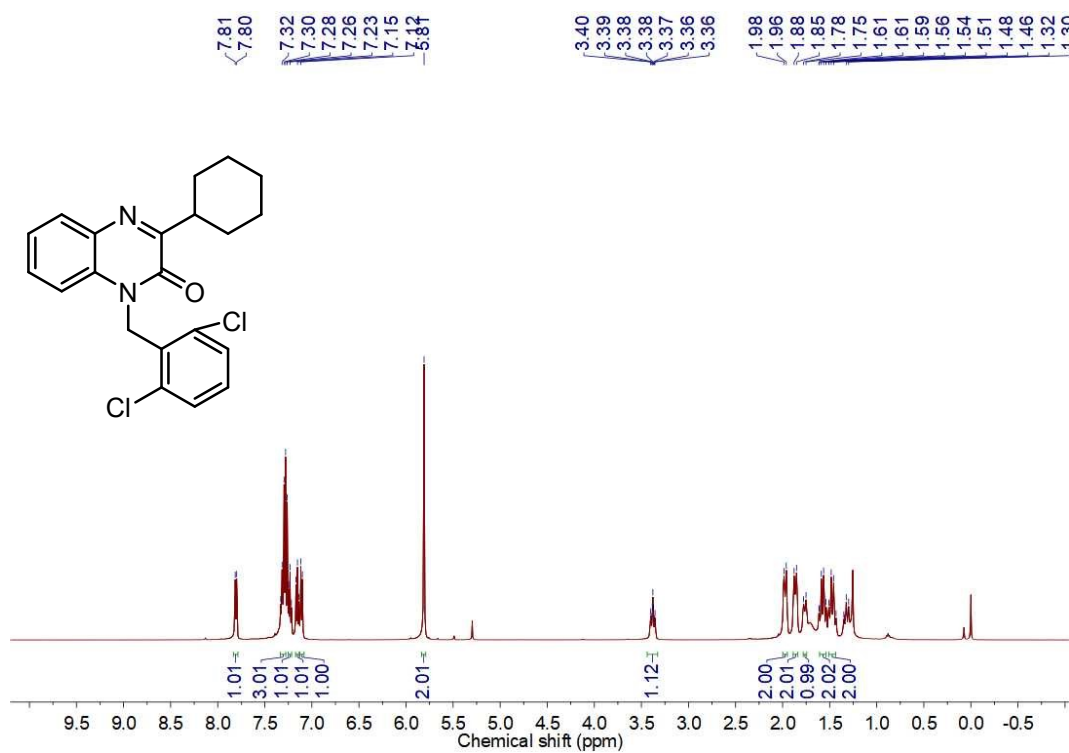
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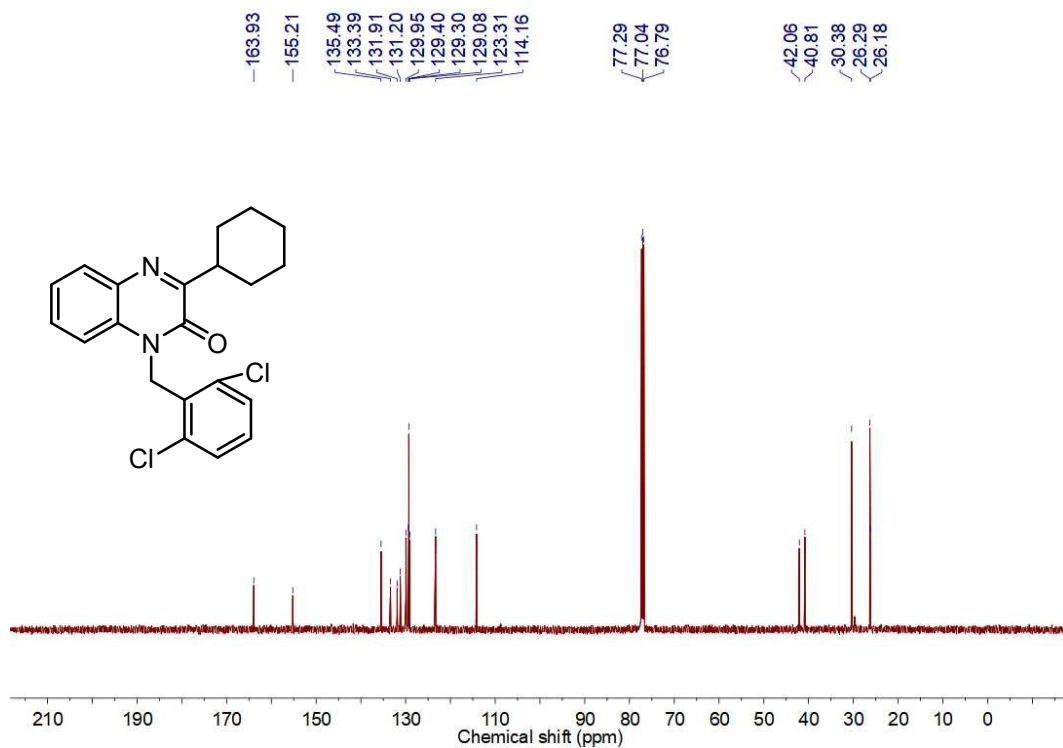
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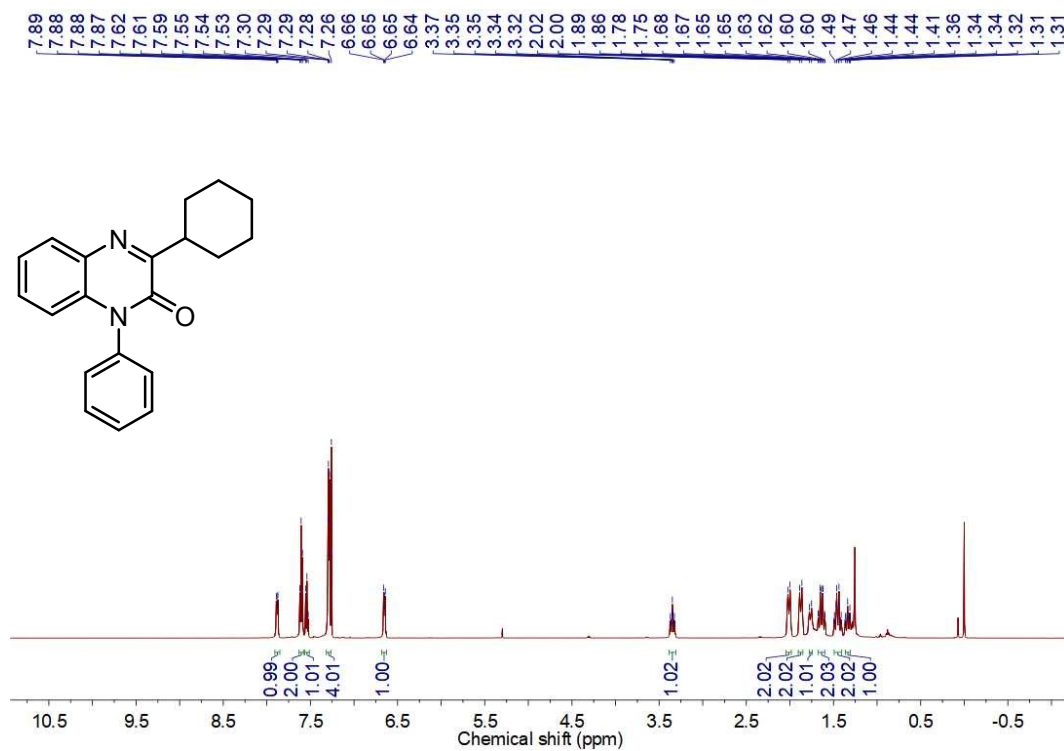
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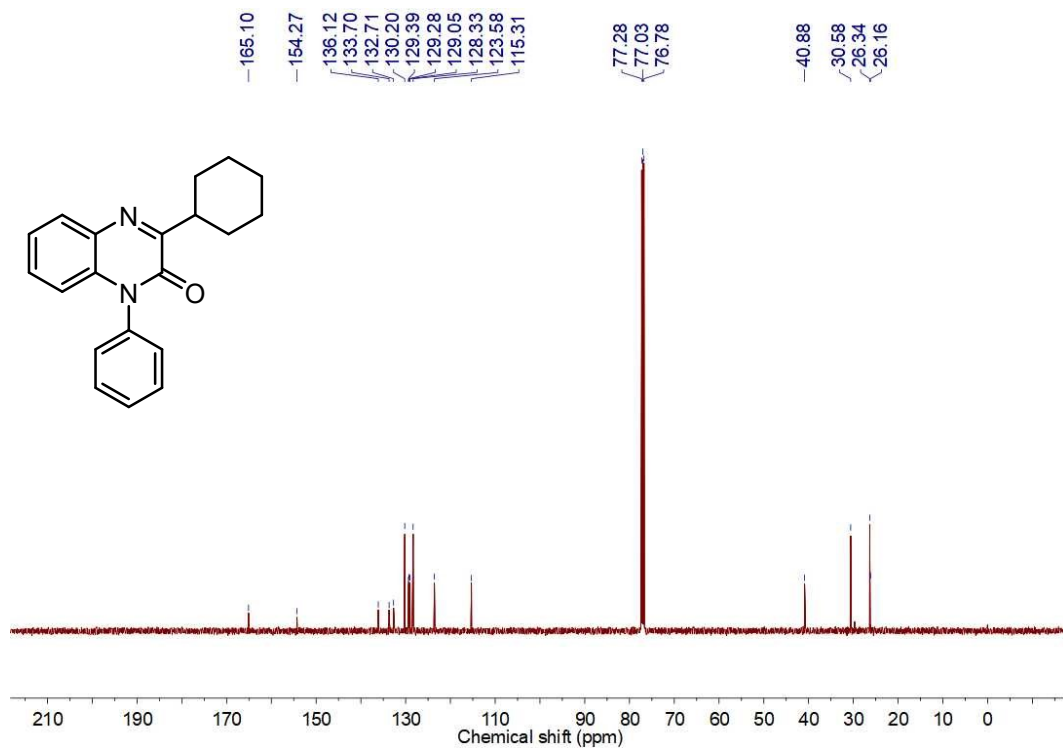
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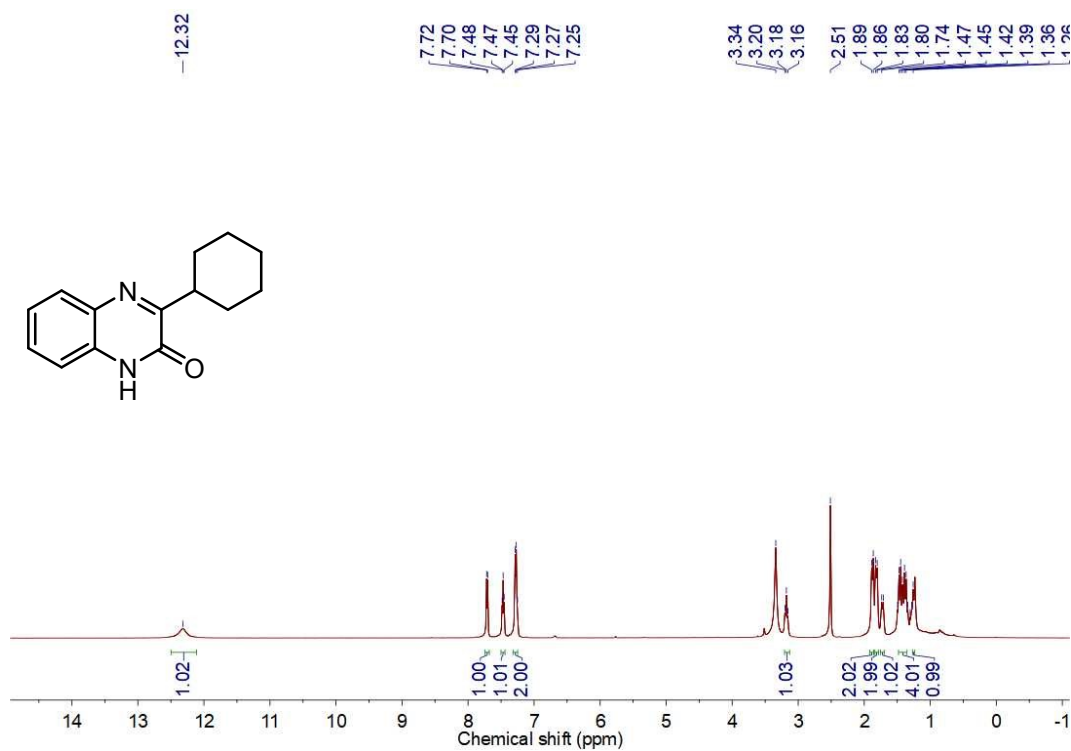
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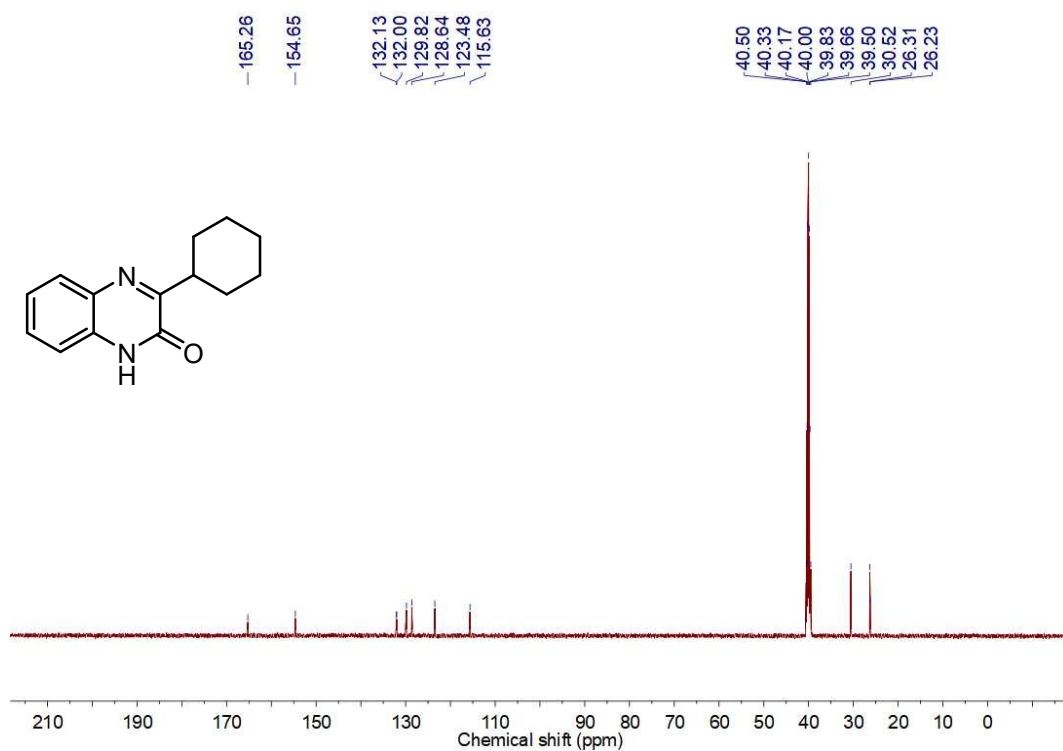
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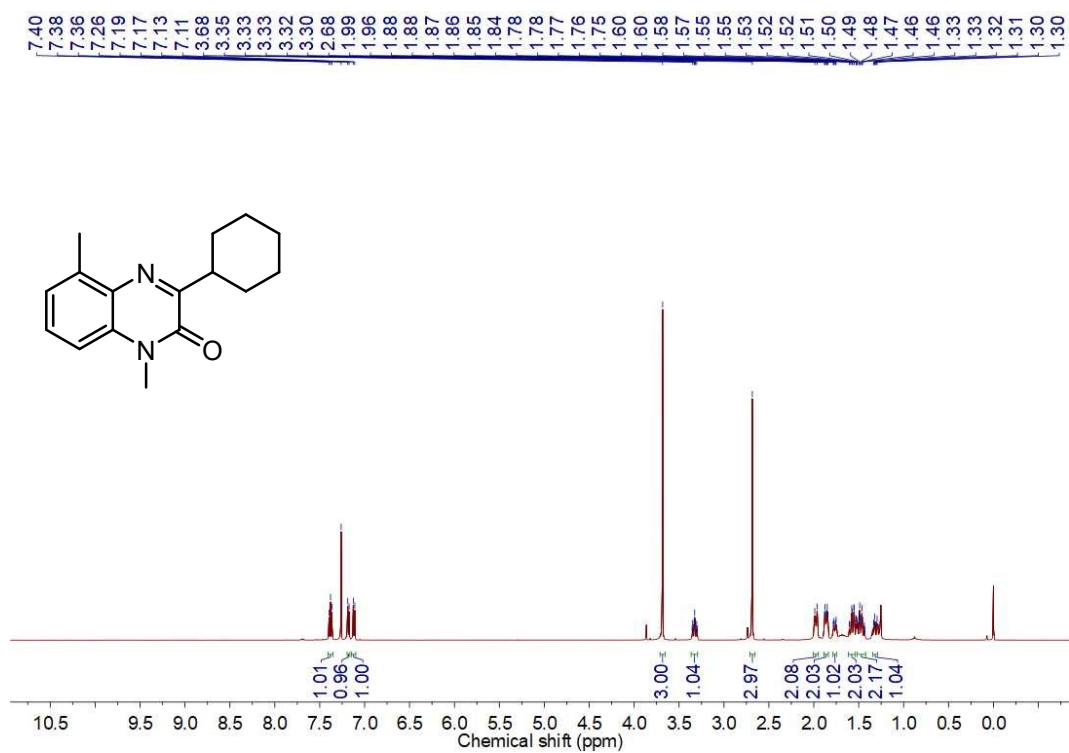
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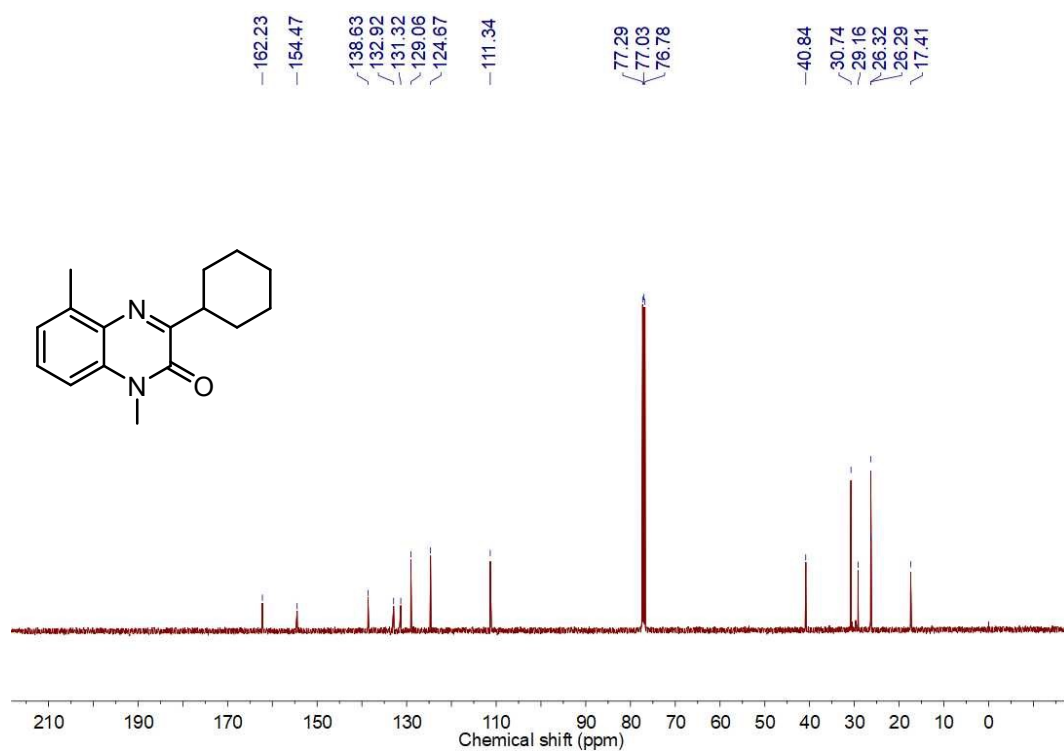
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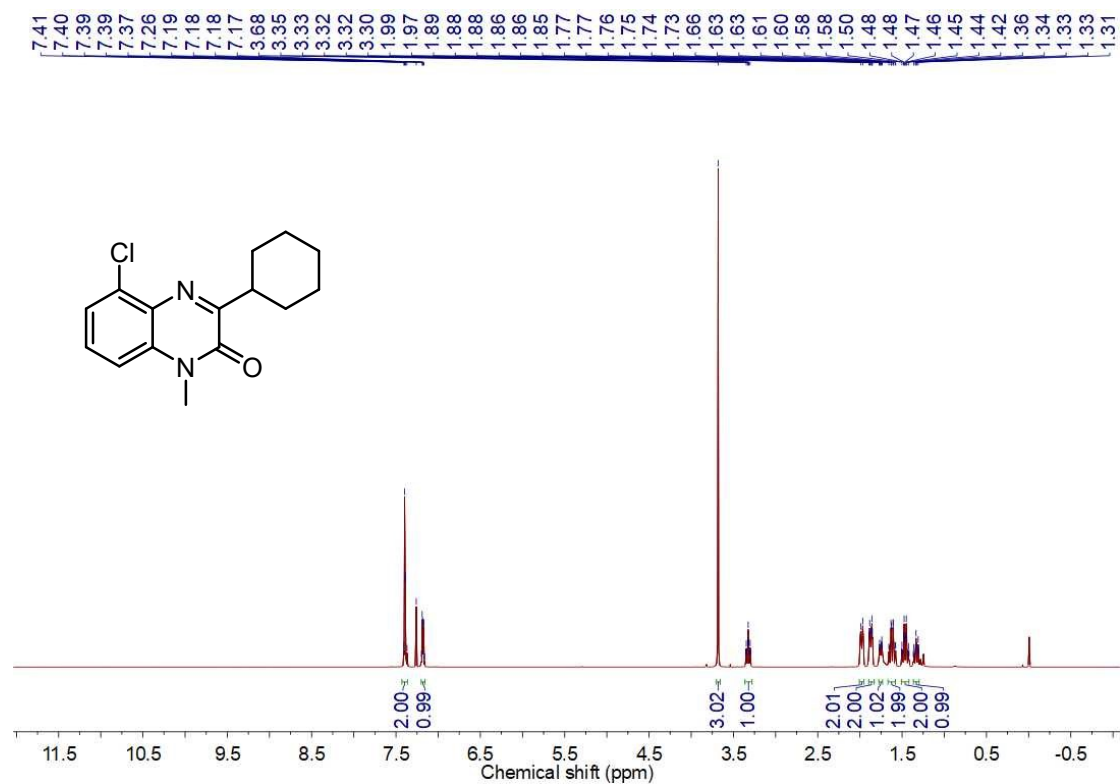
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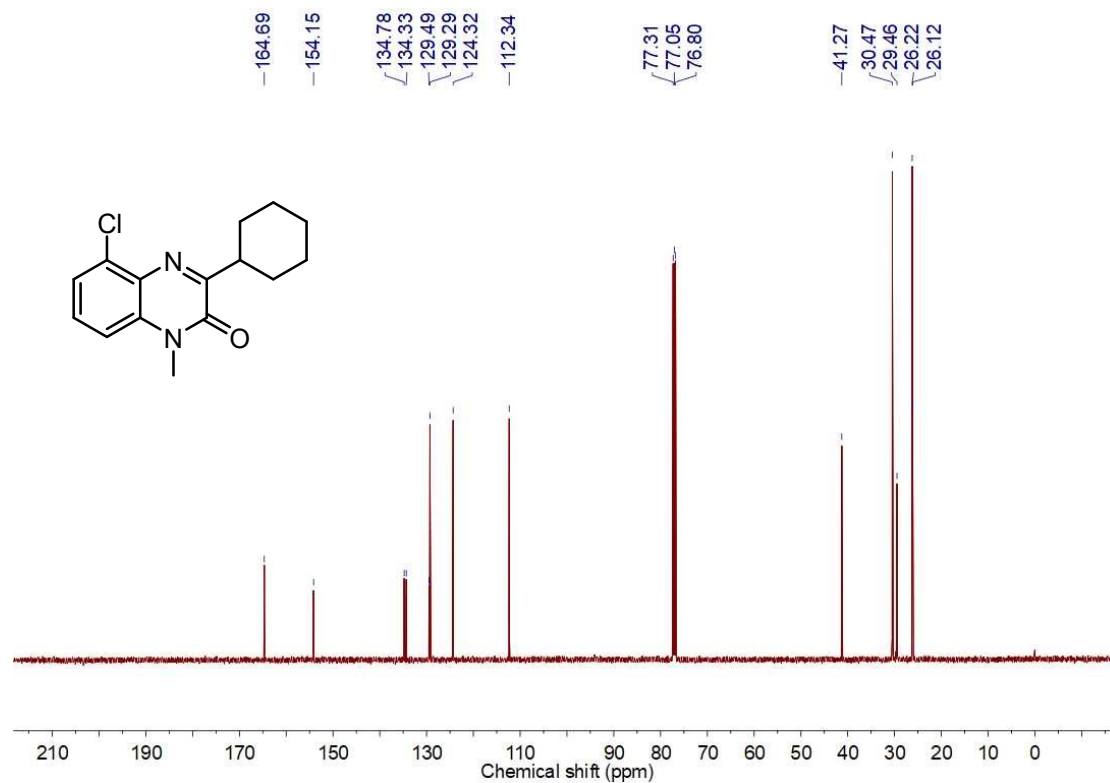
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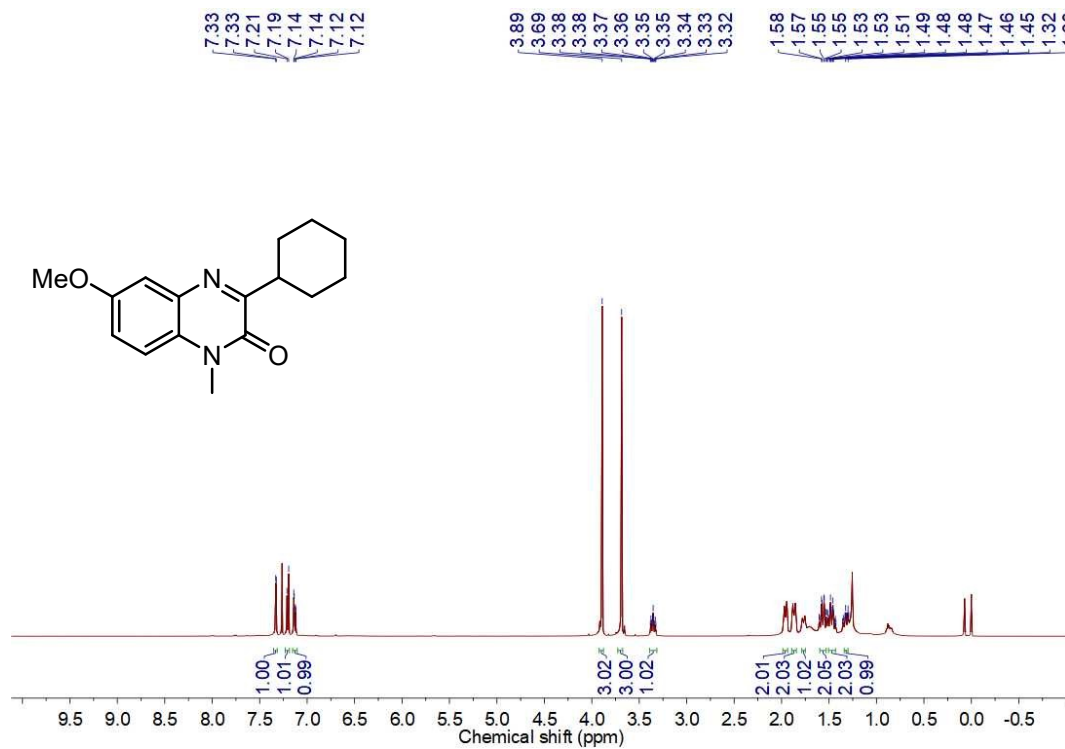
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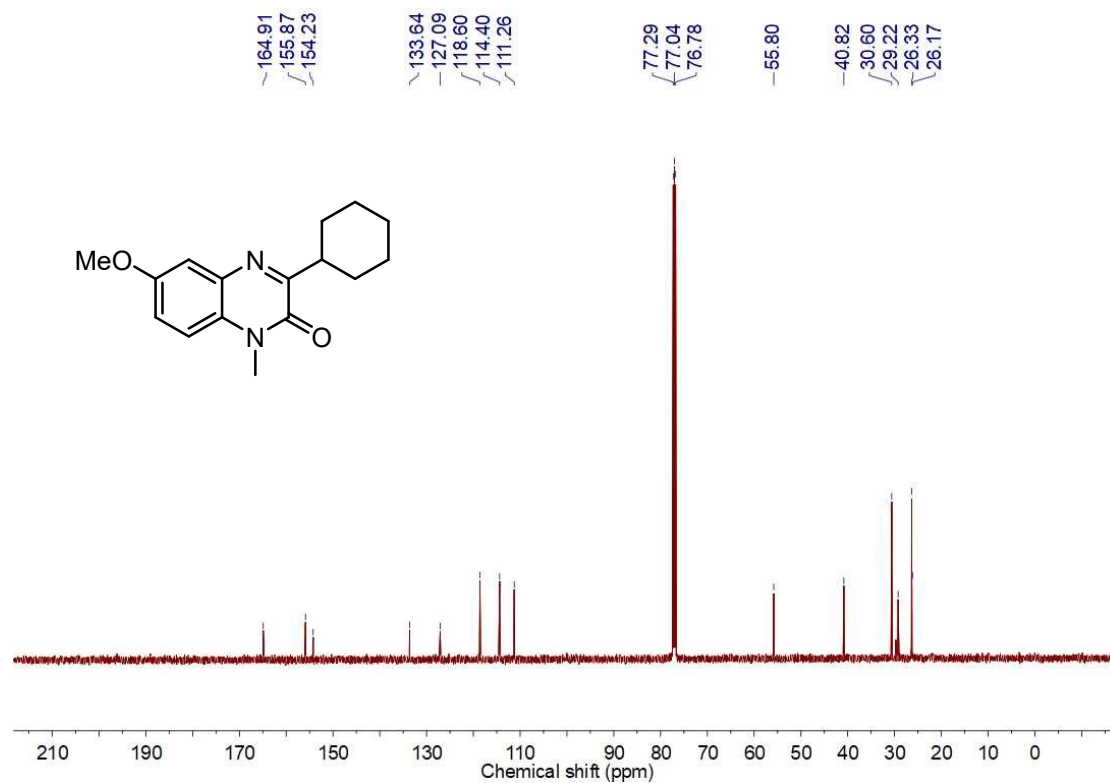
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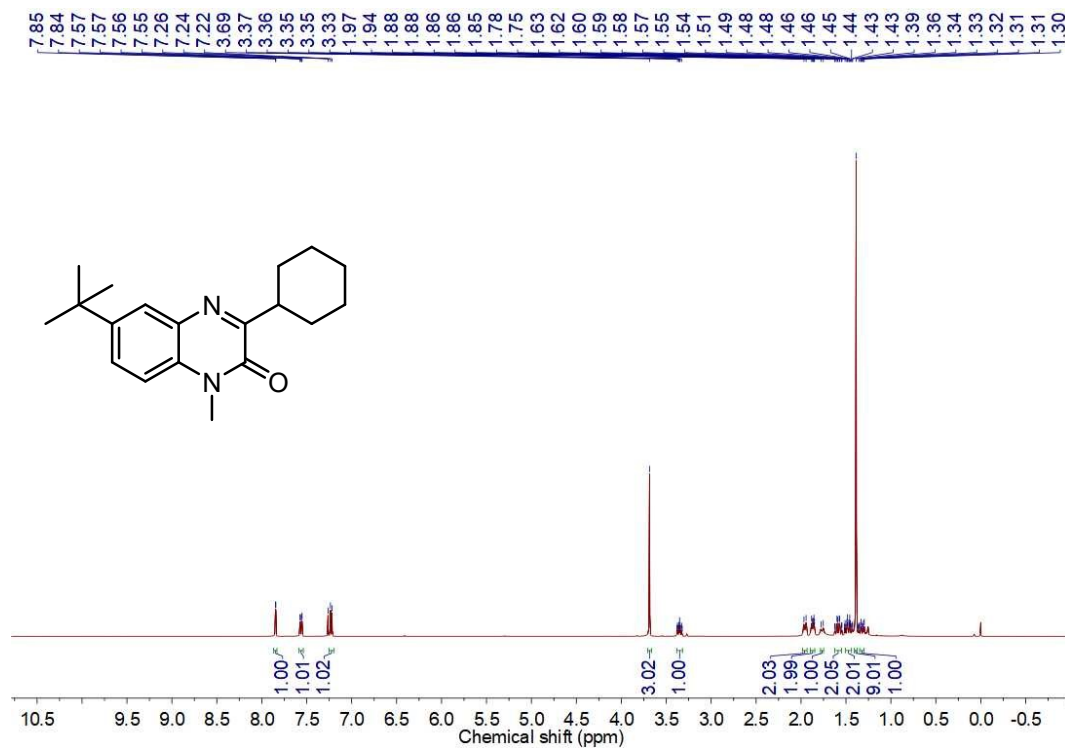
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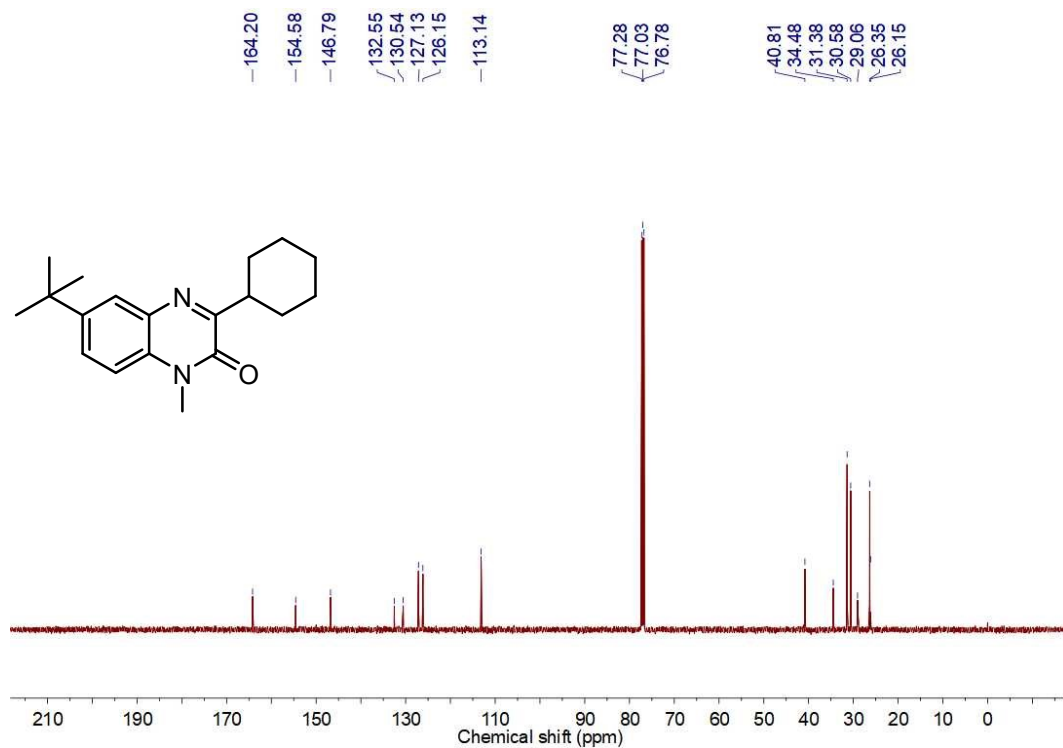
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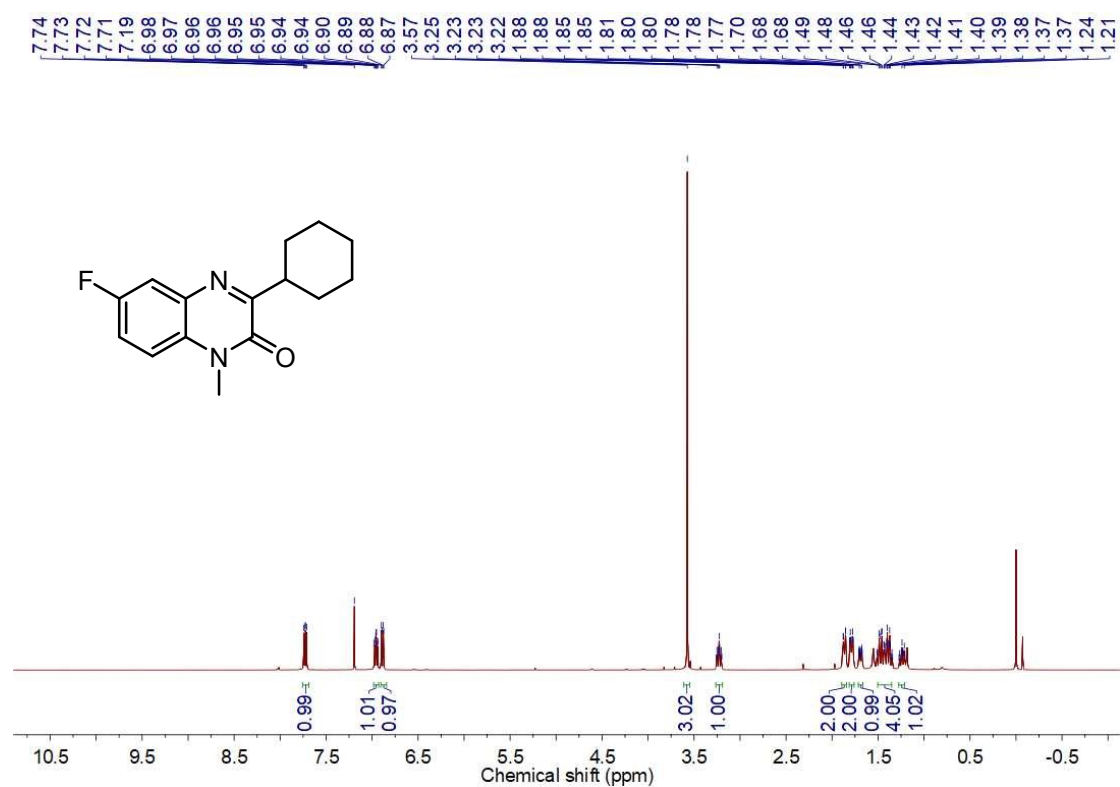
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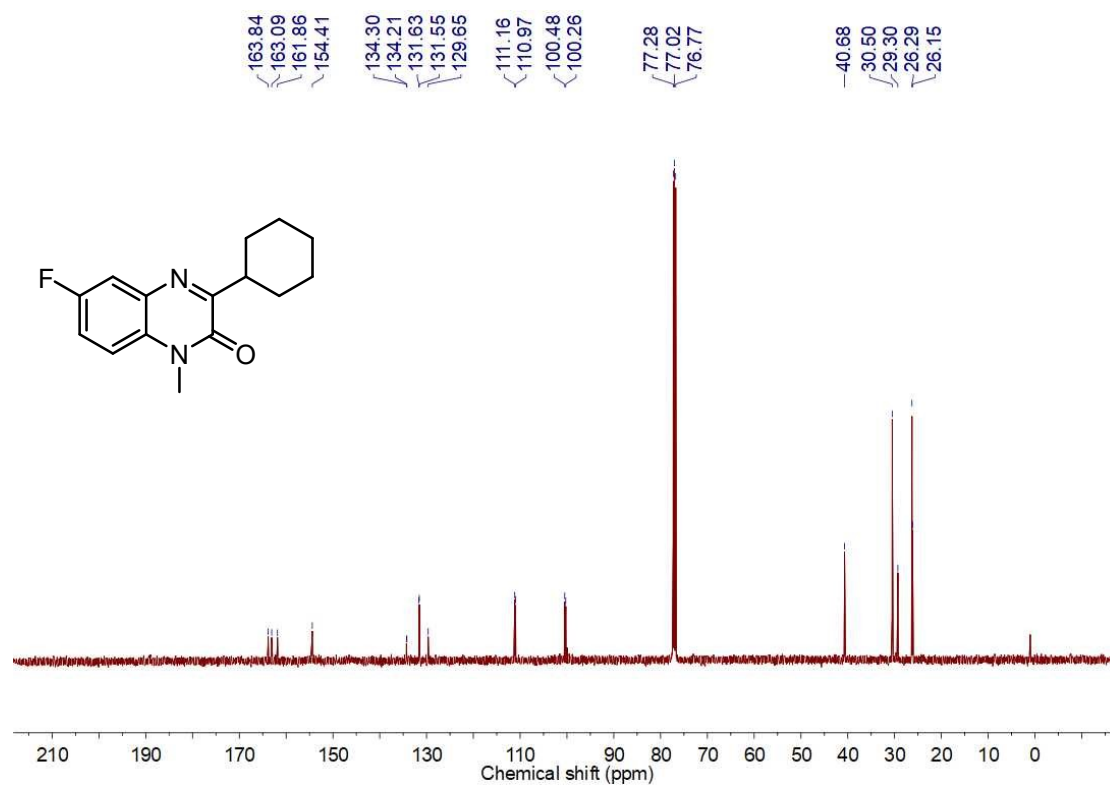
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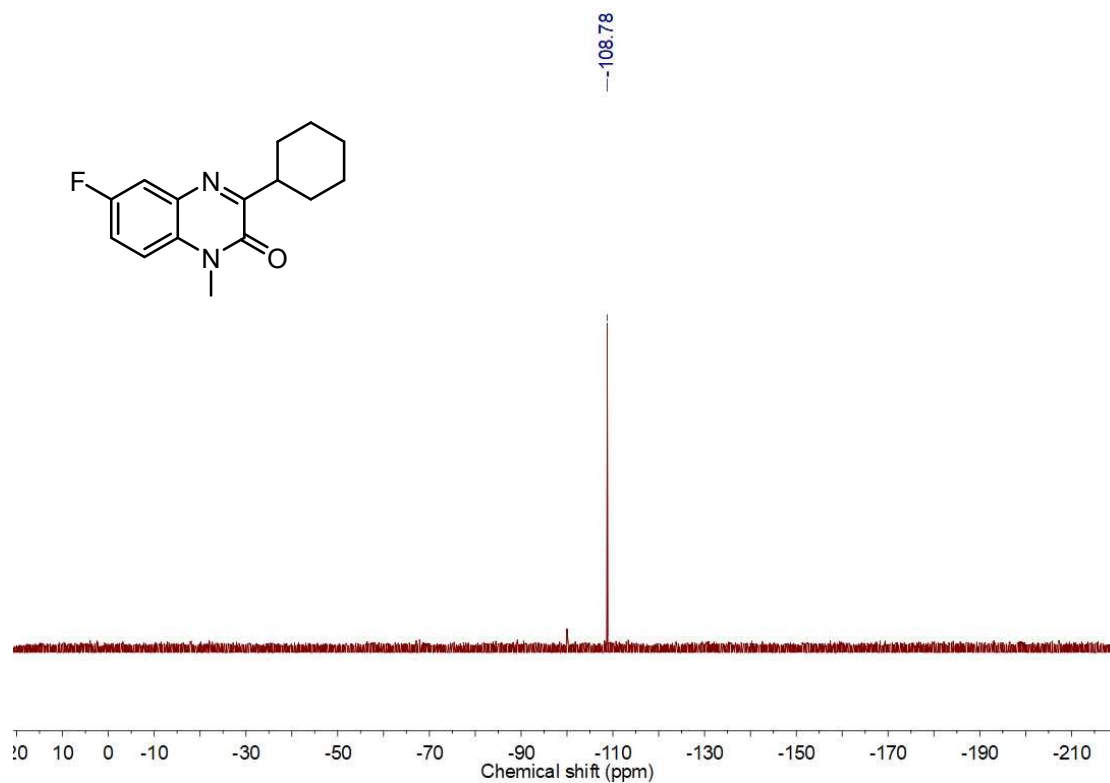
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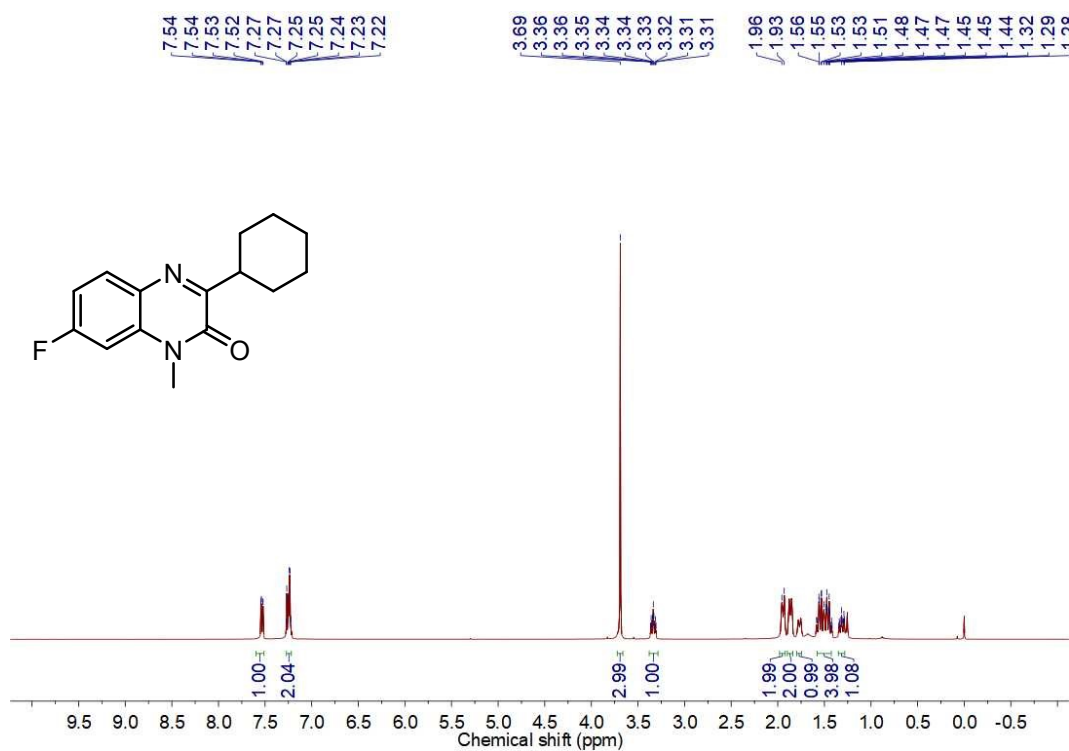
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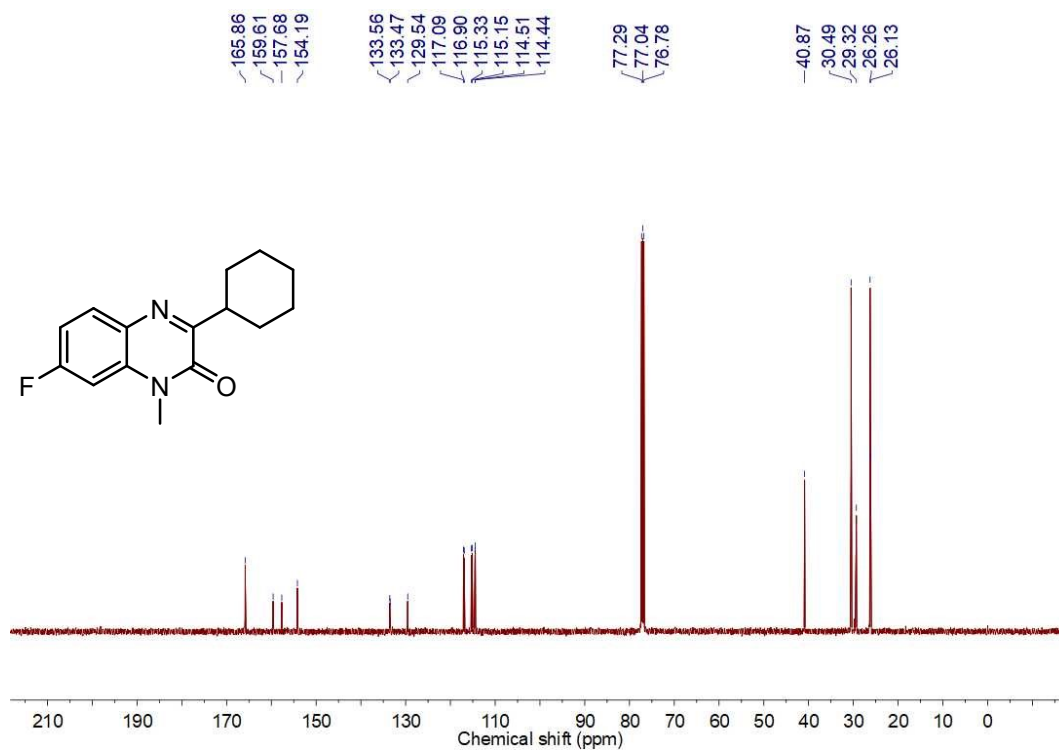
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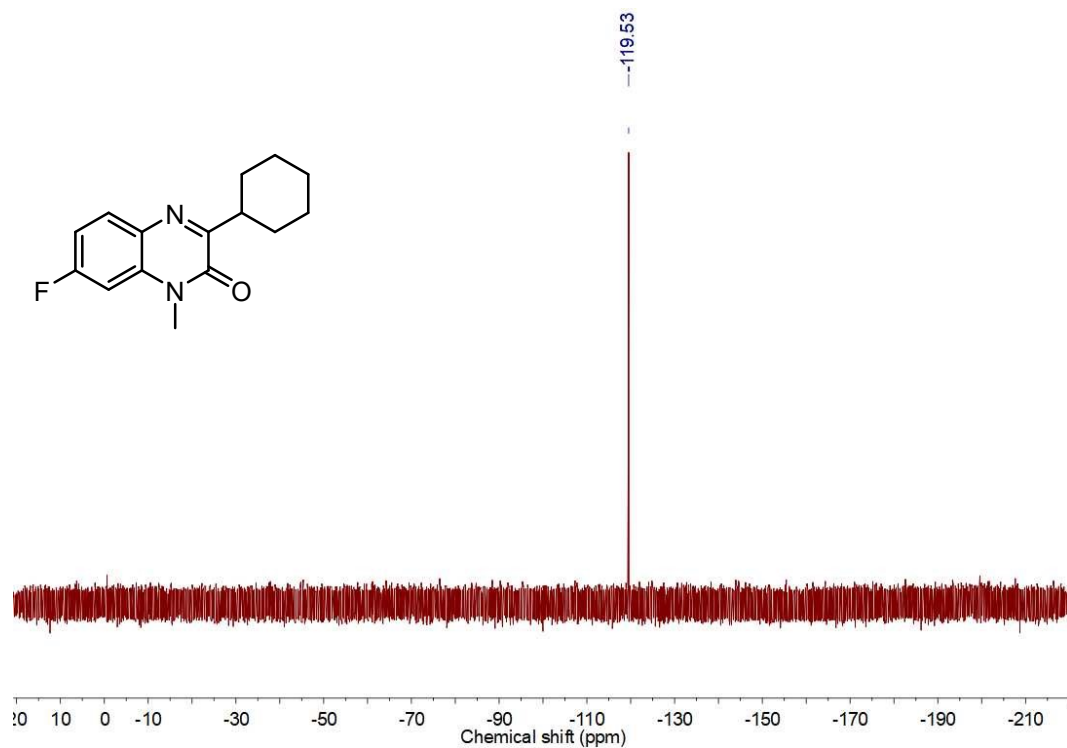
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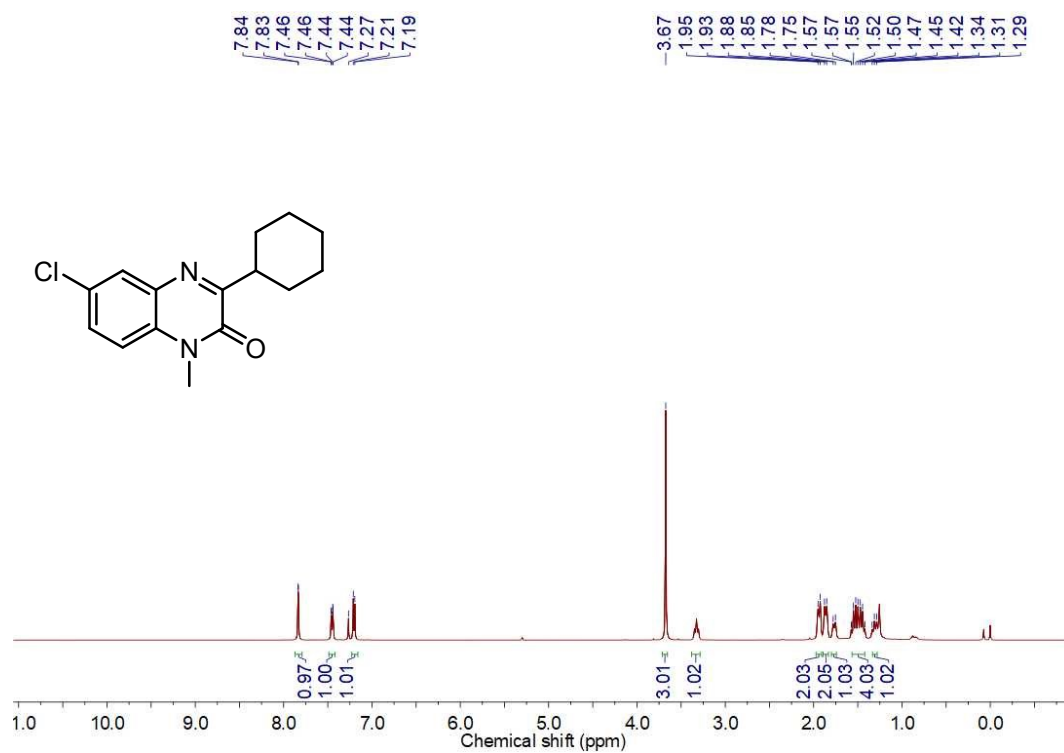
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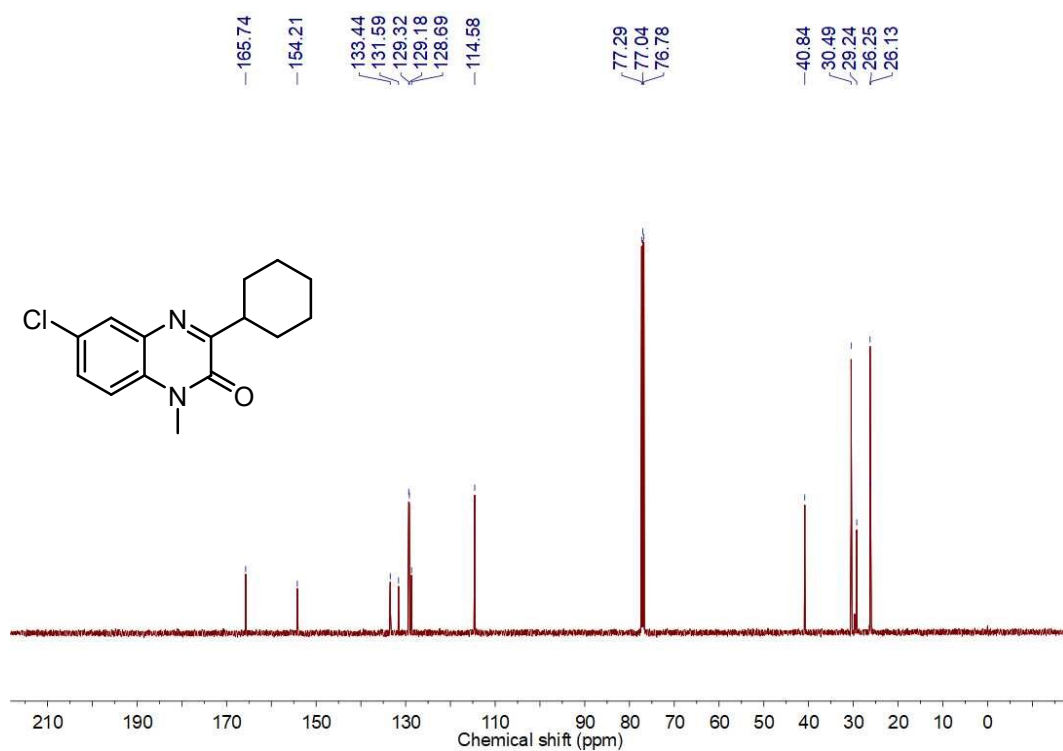
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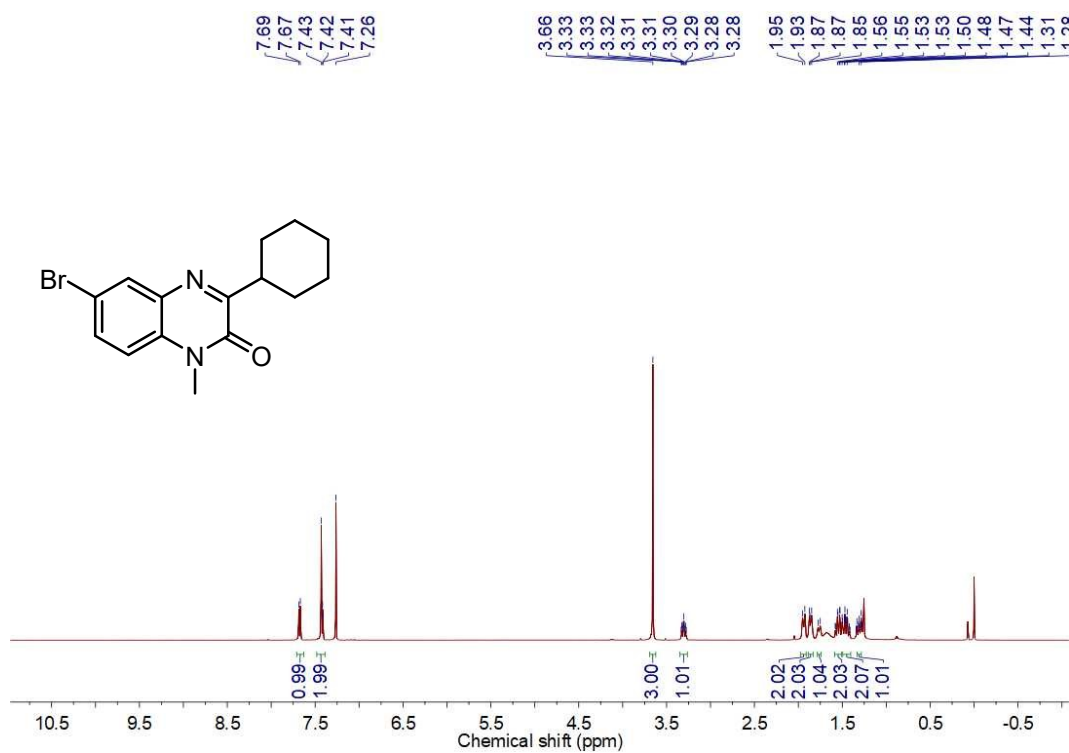
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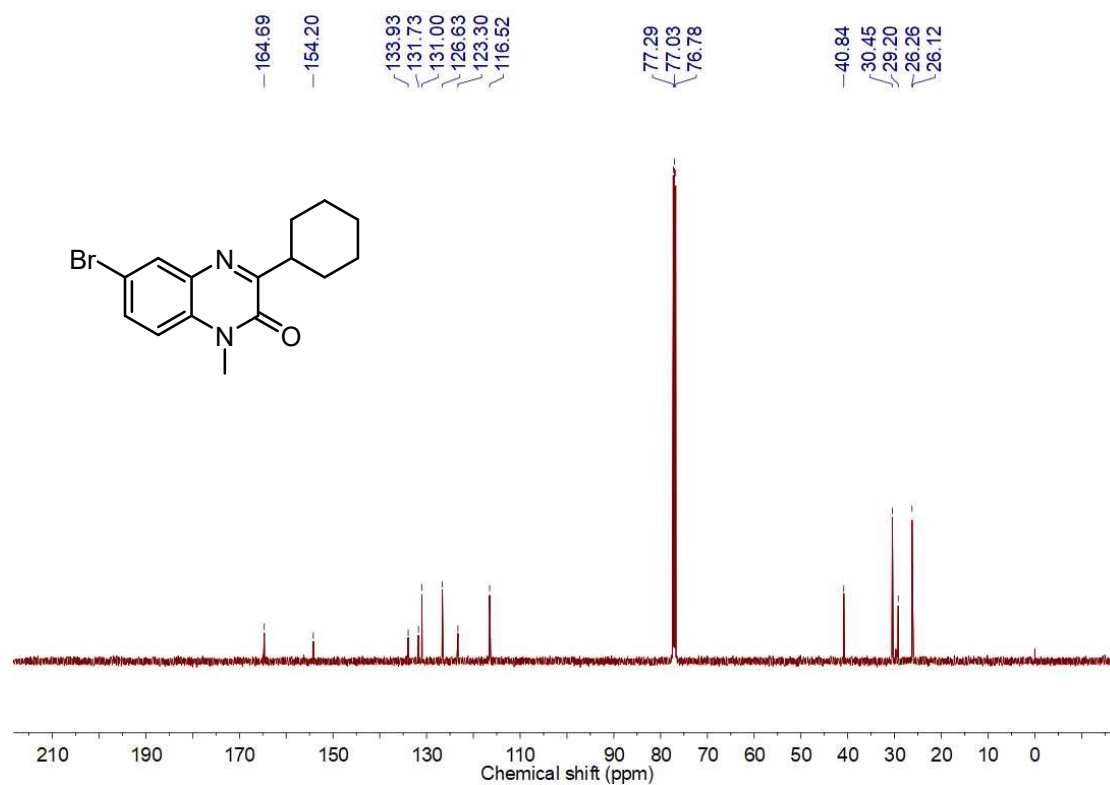
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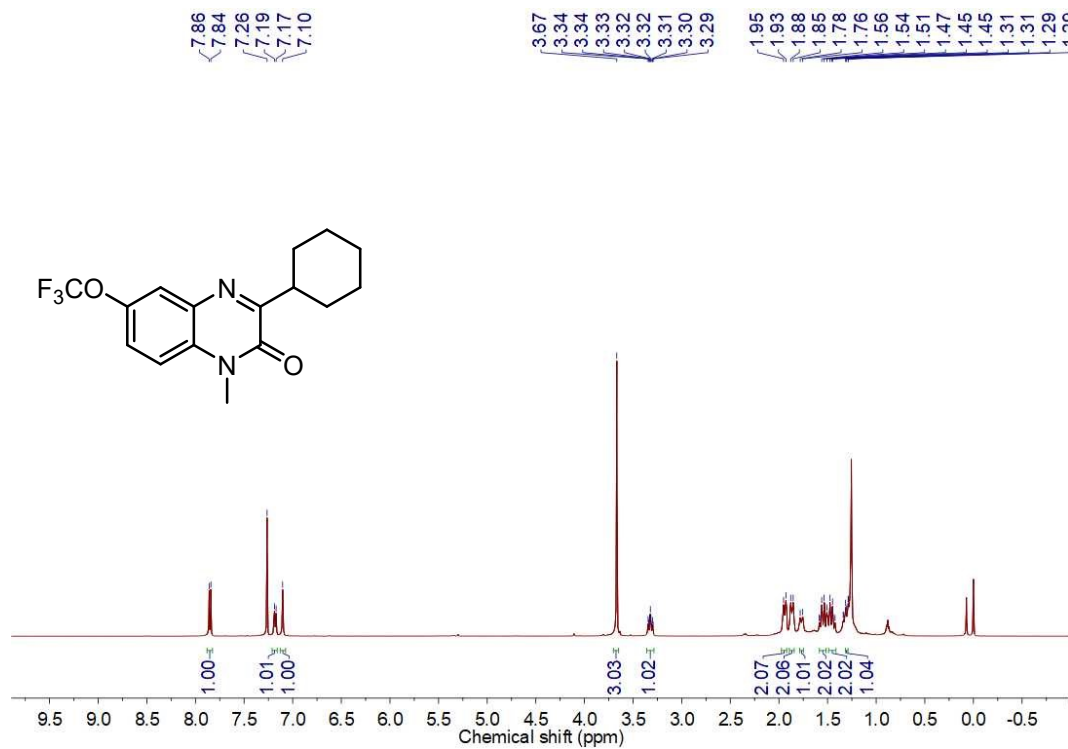
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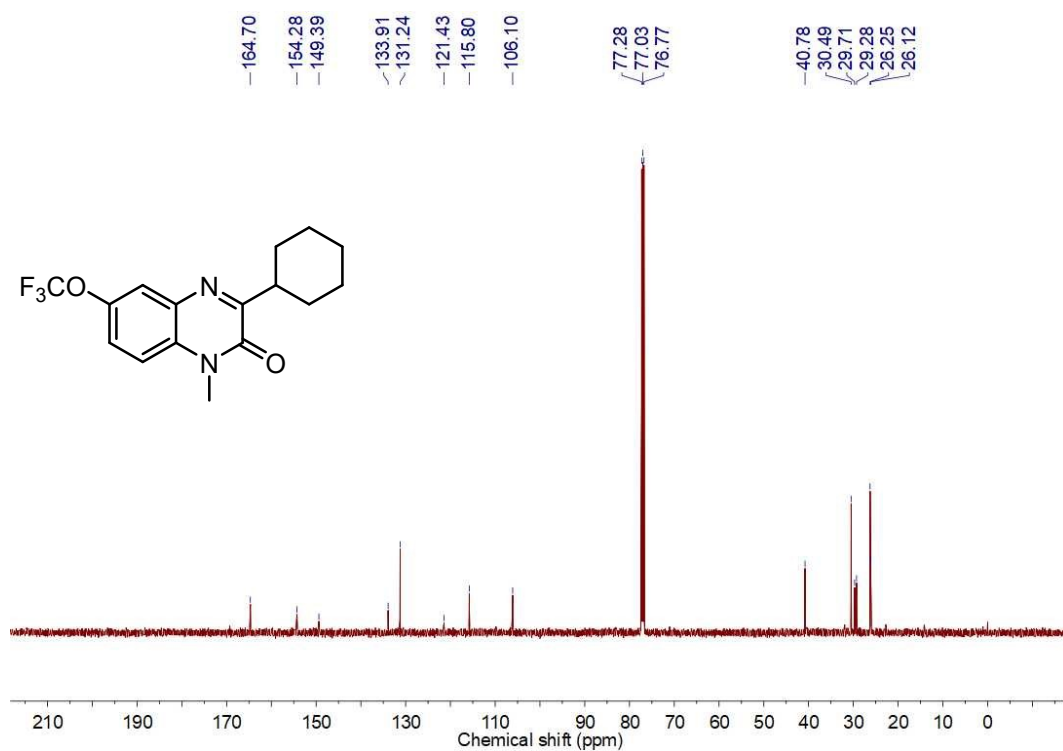
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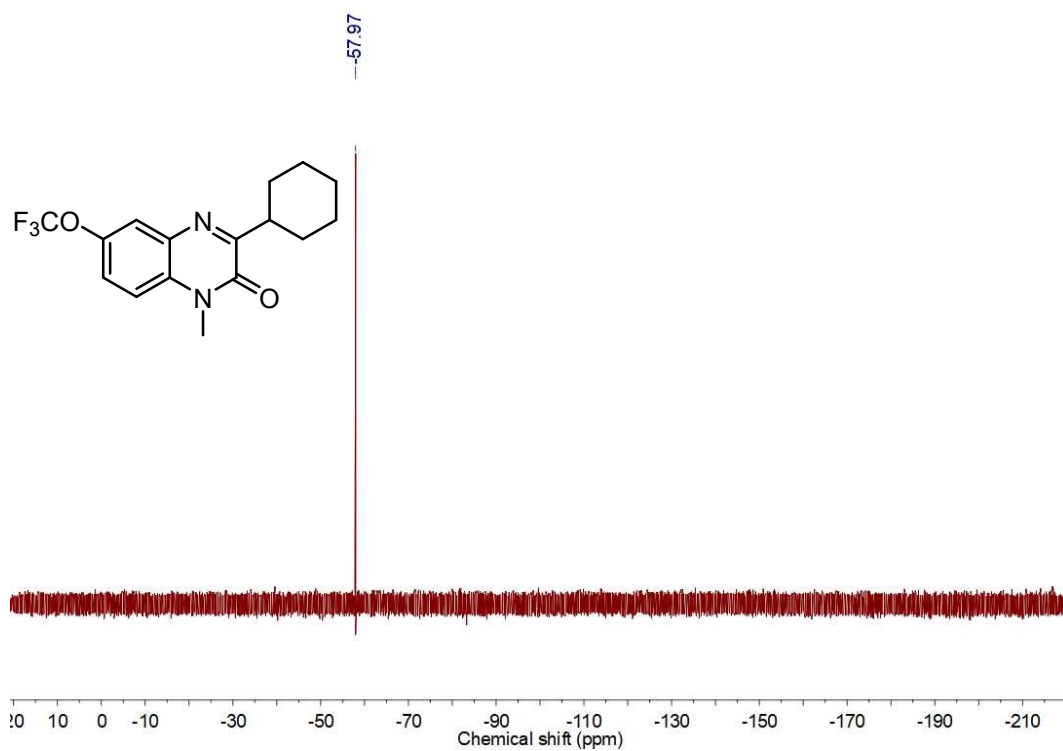
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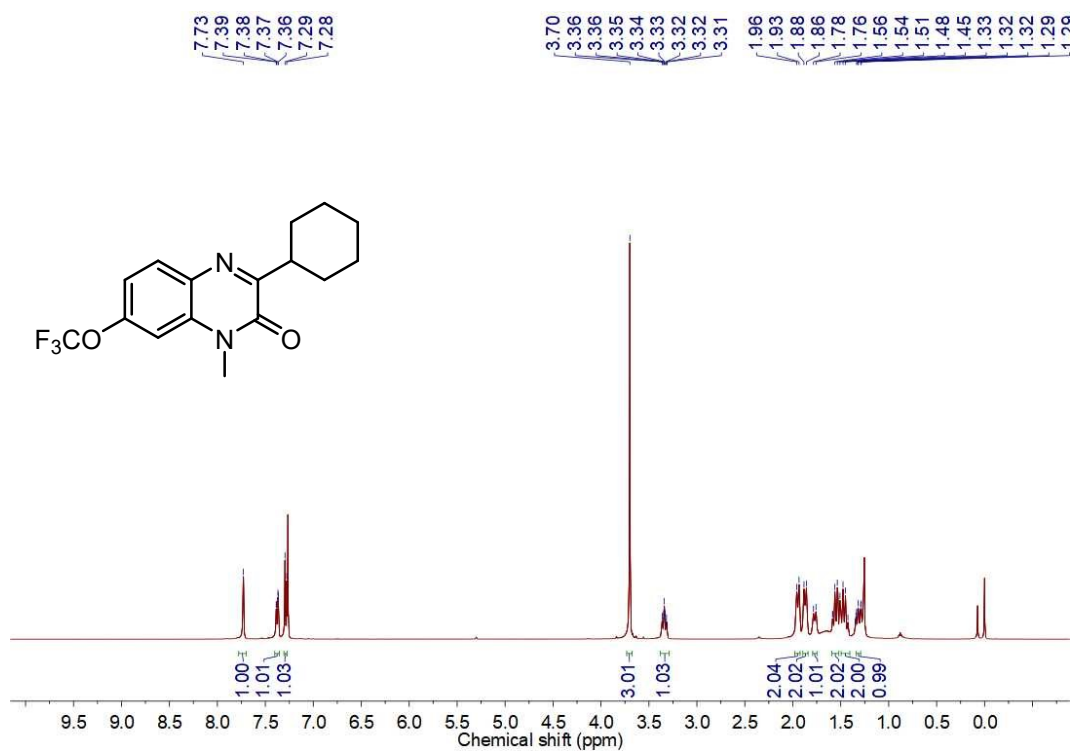
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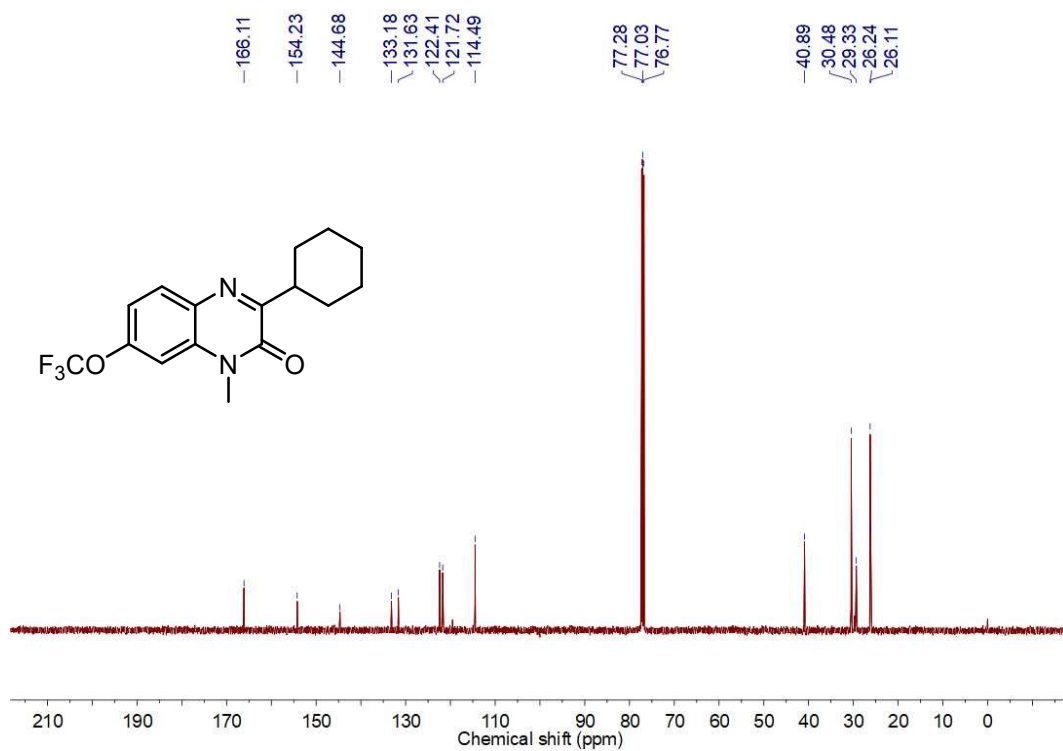
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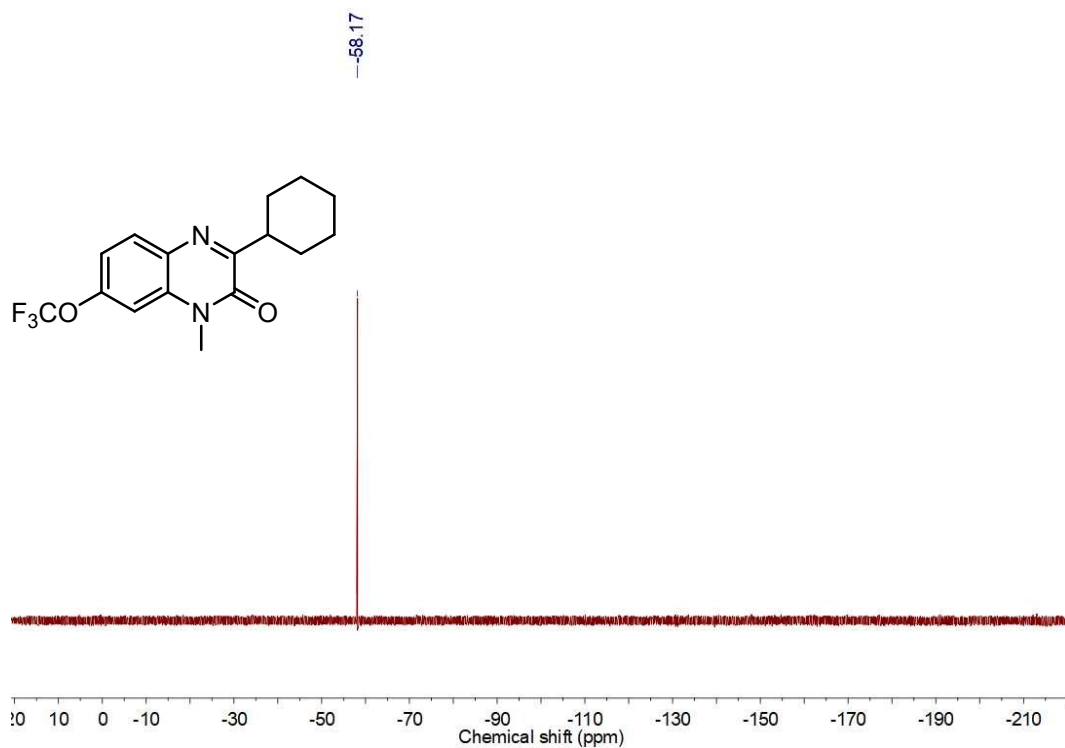
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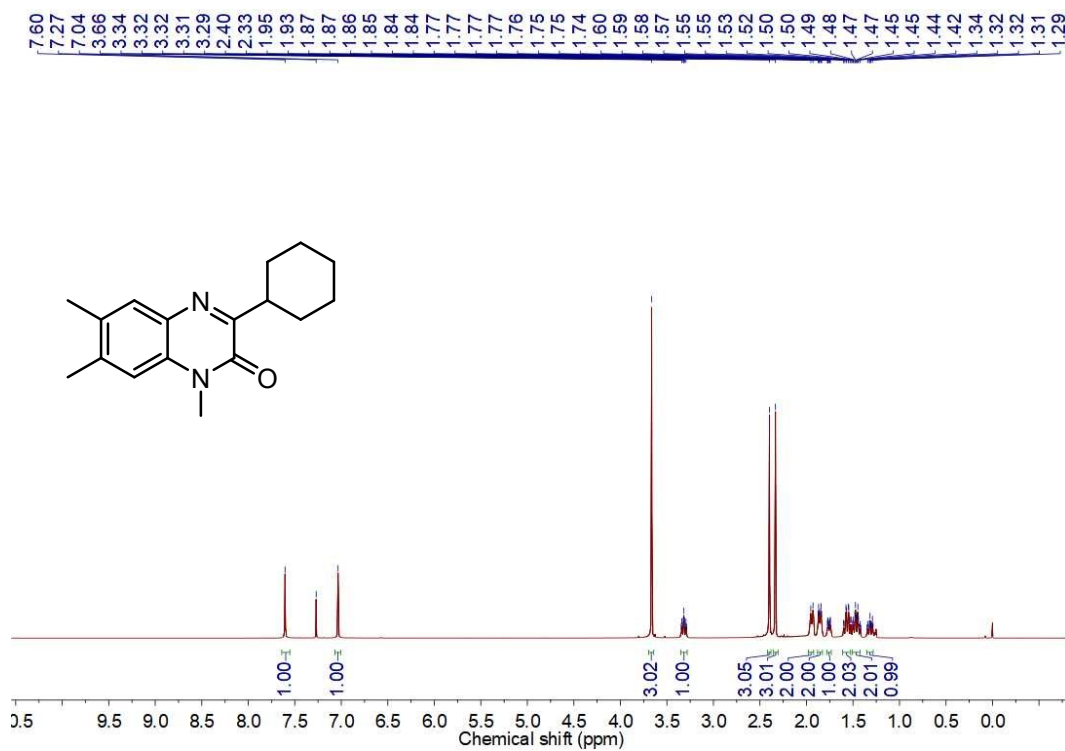
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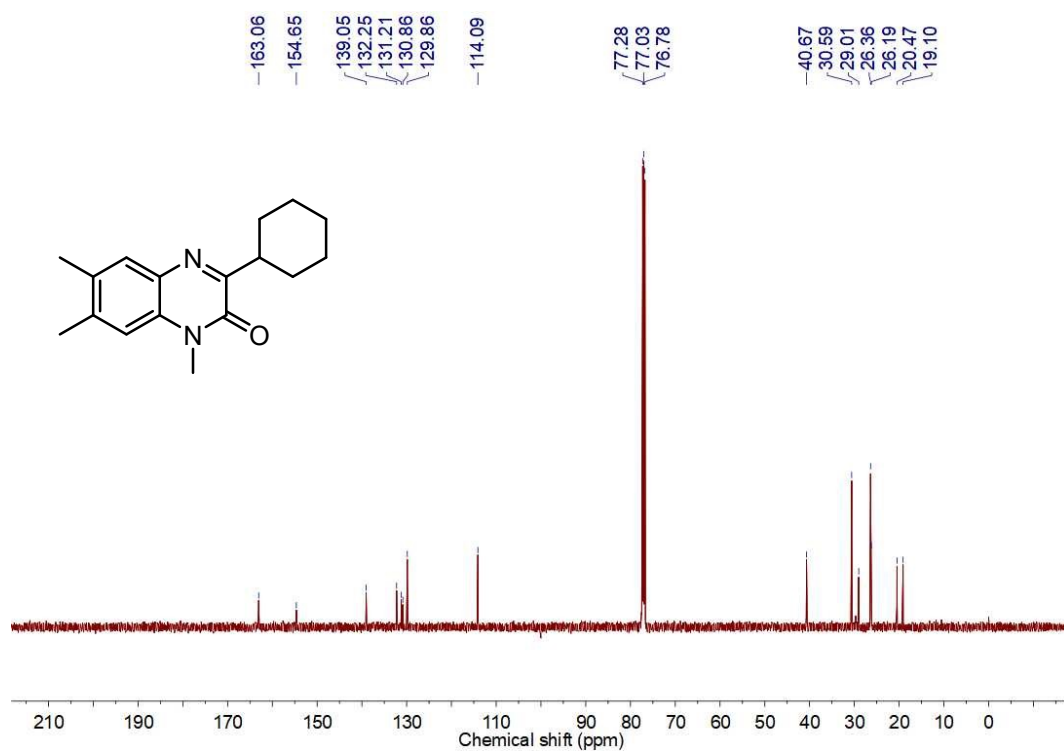
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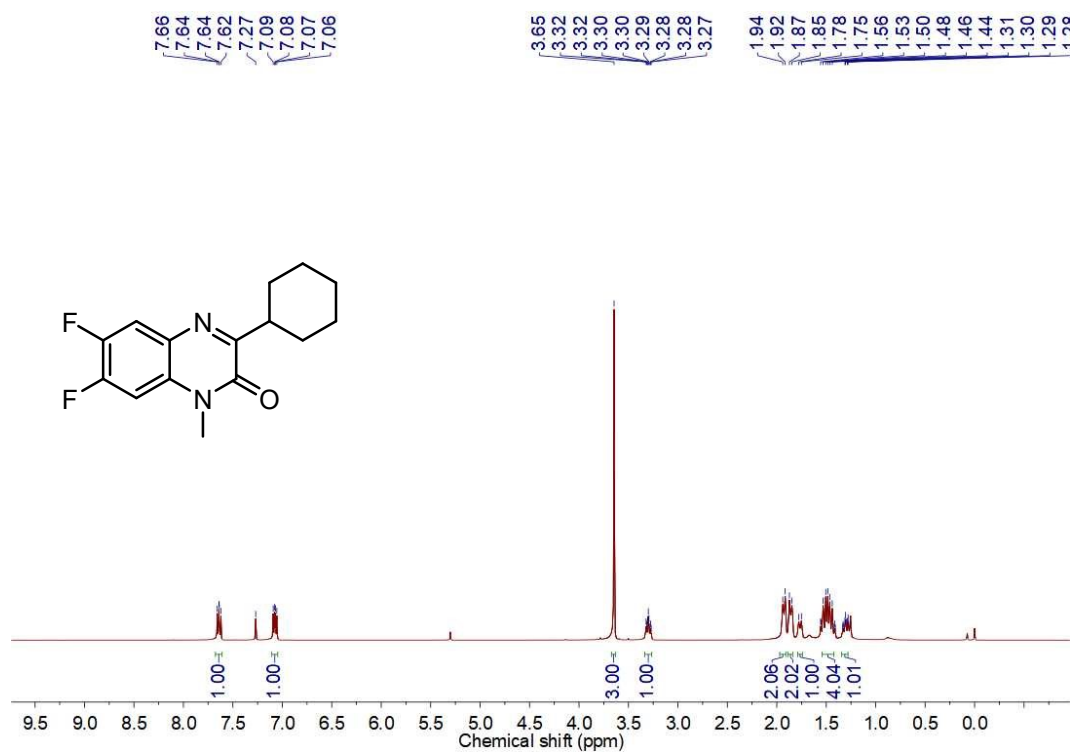
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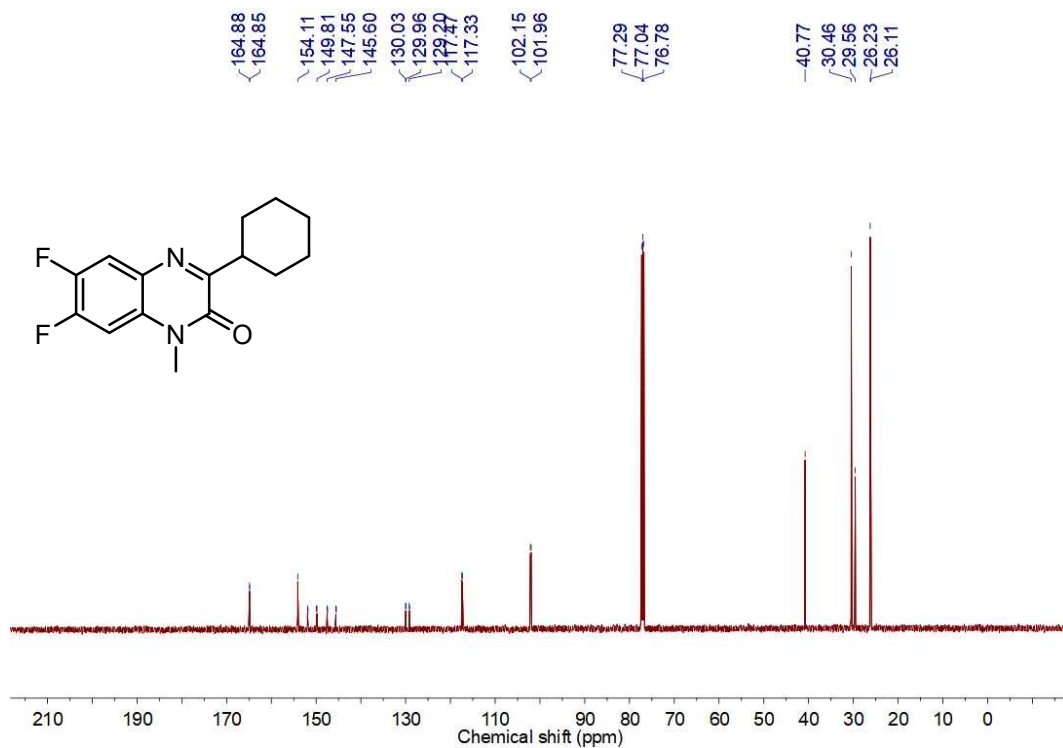
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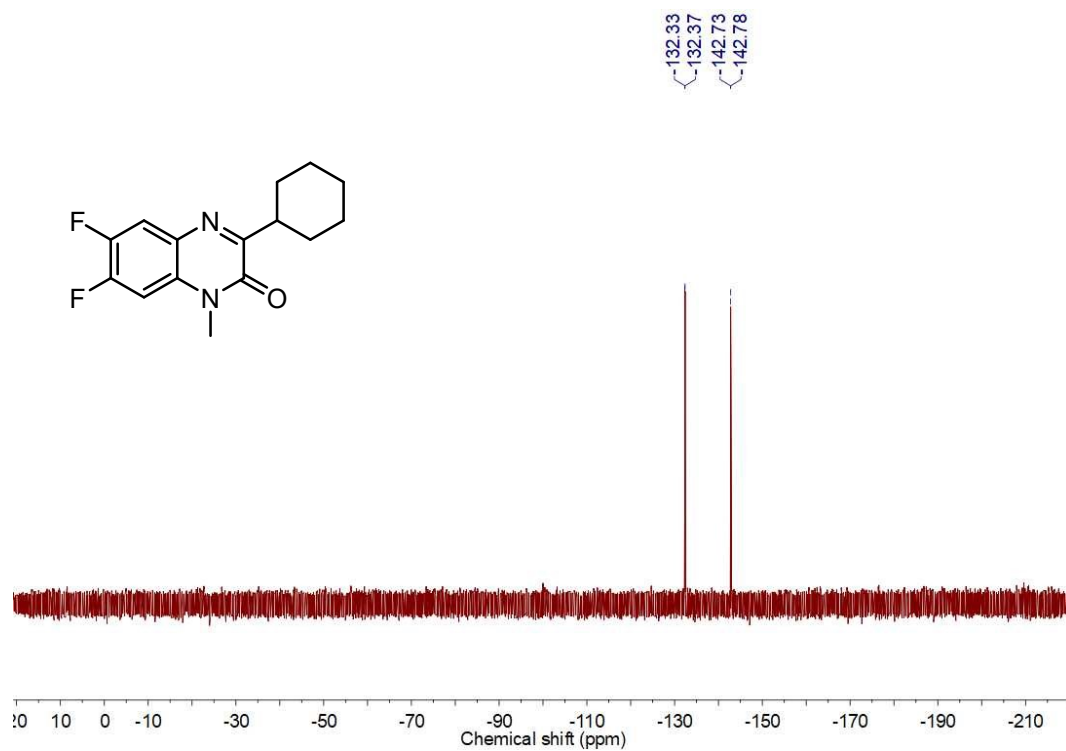
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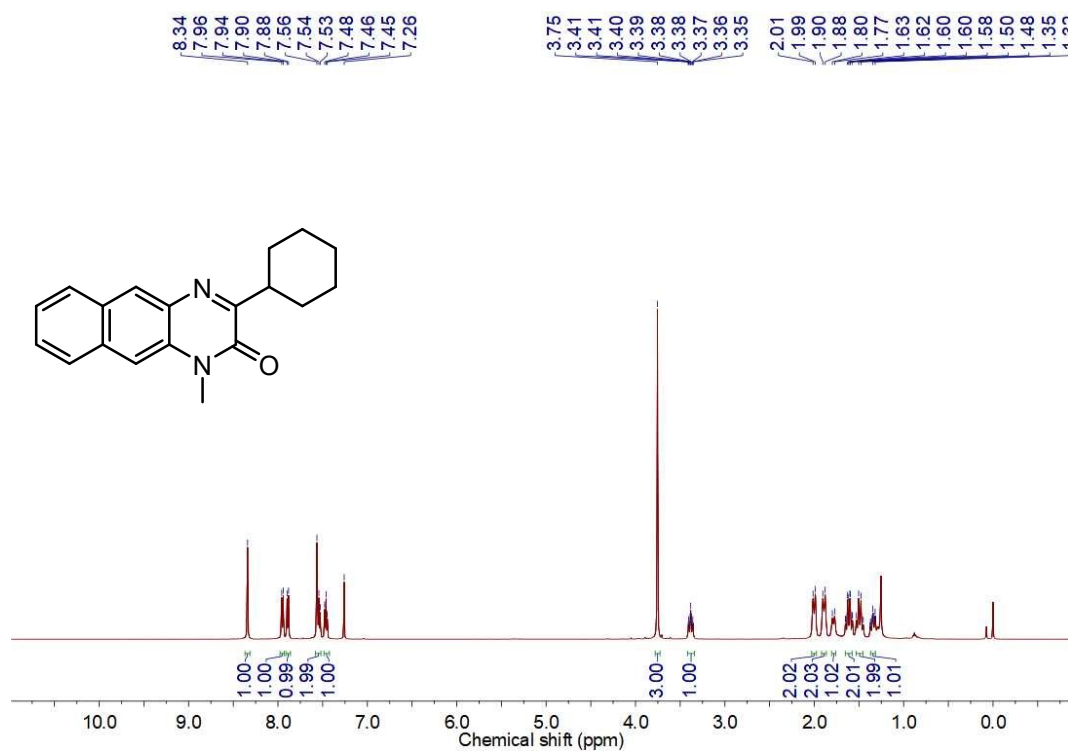
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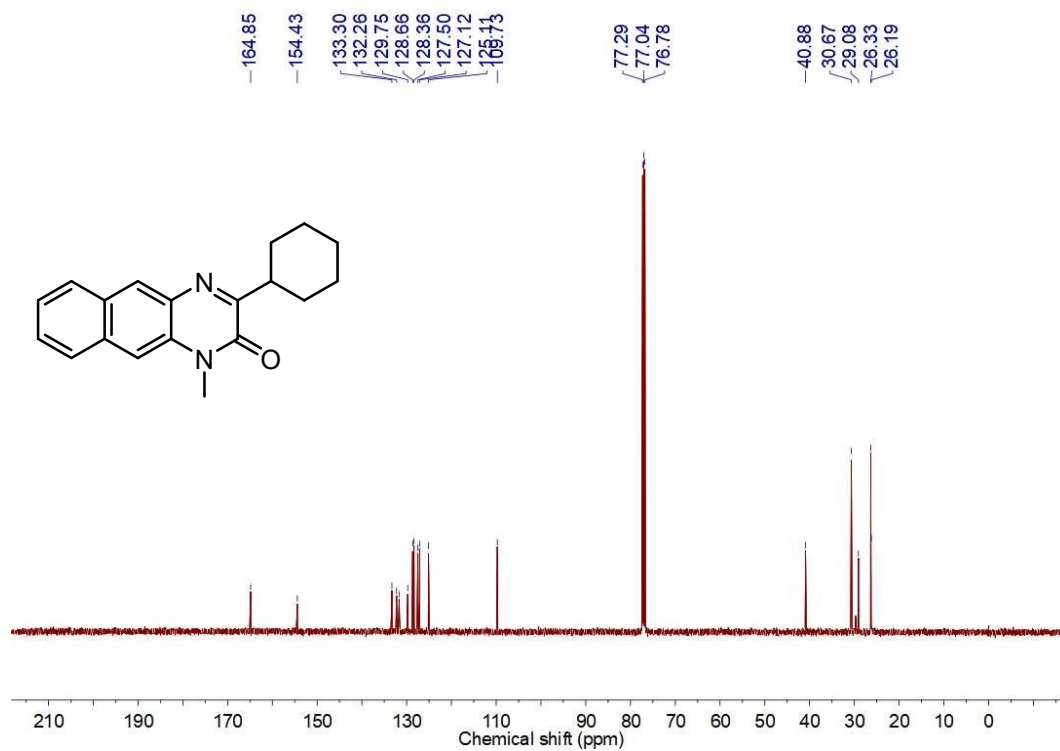
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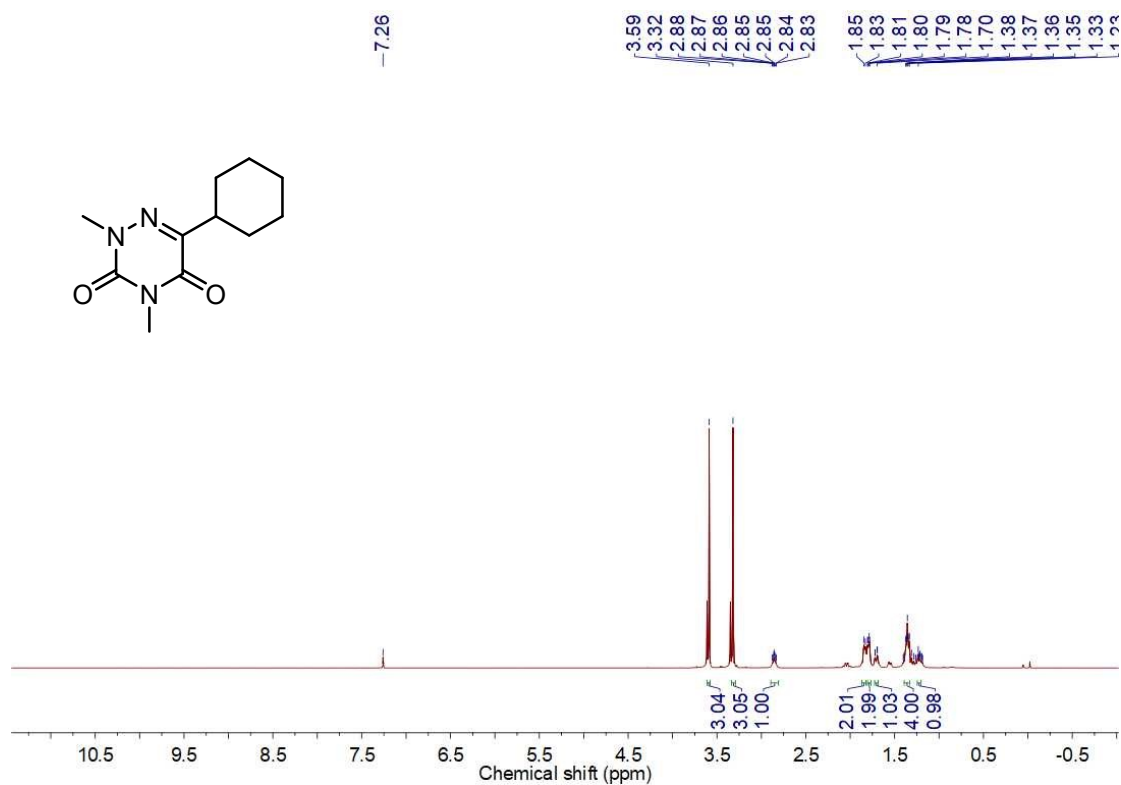
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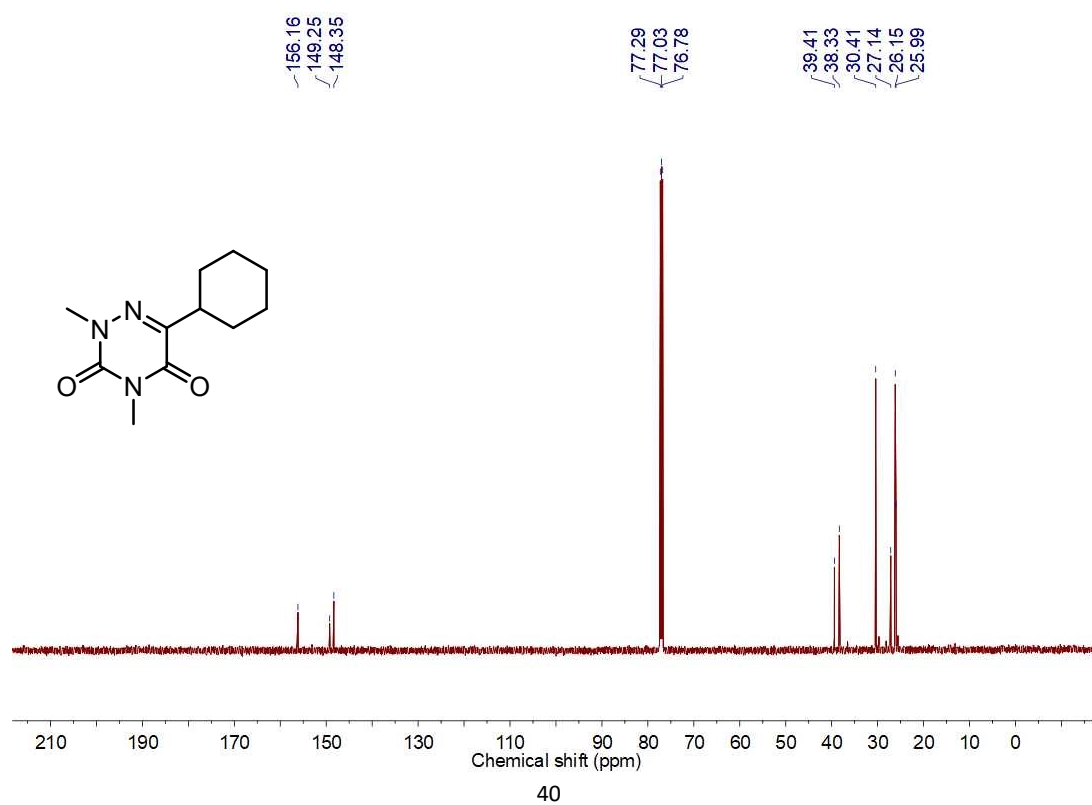
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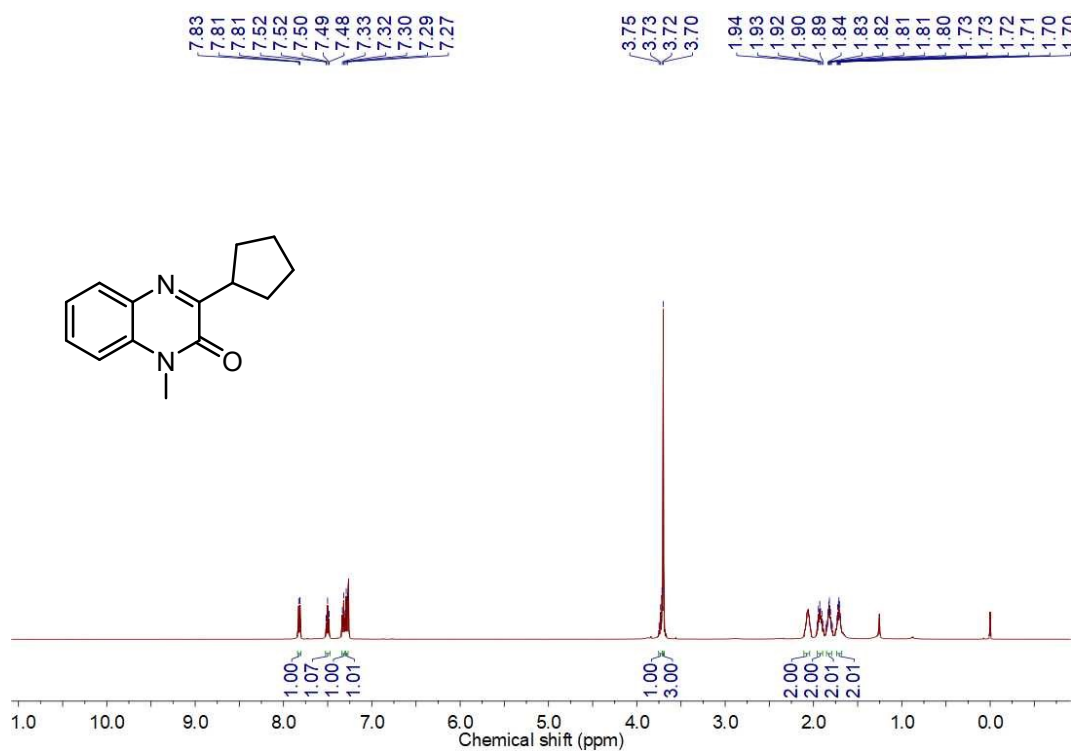
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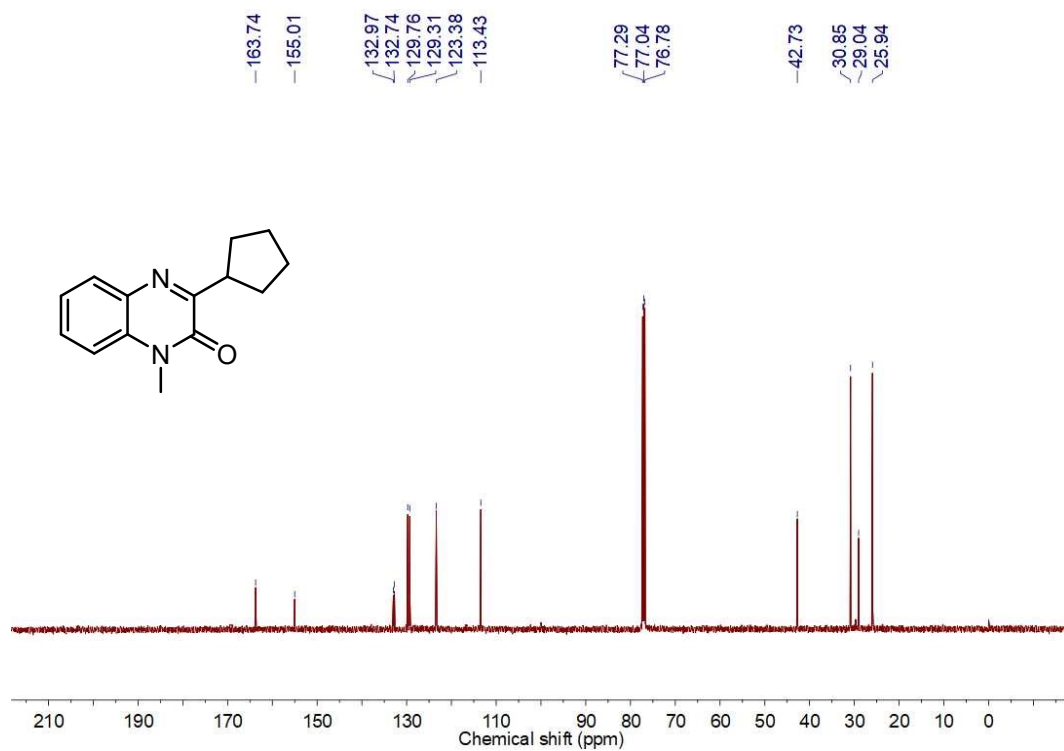
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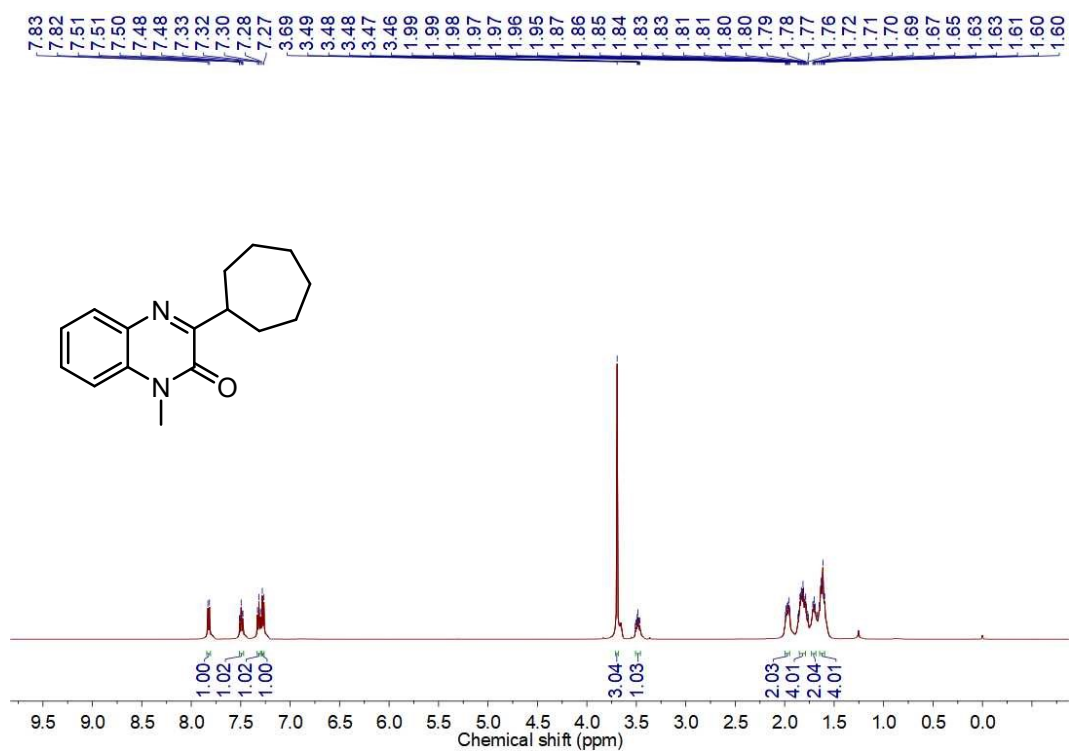
### 3aj <sup>1</sup>H NMR



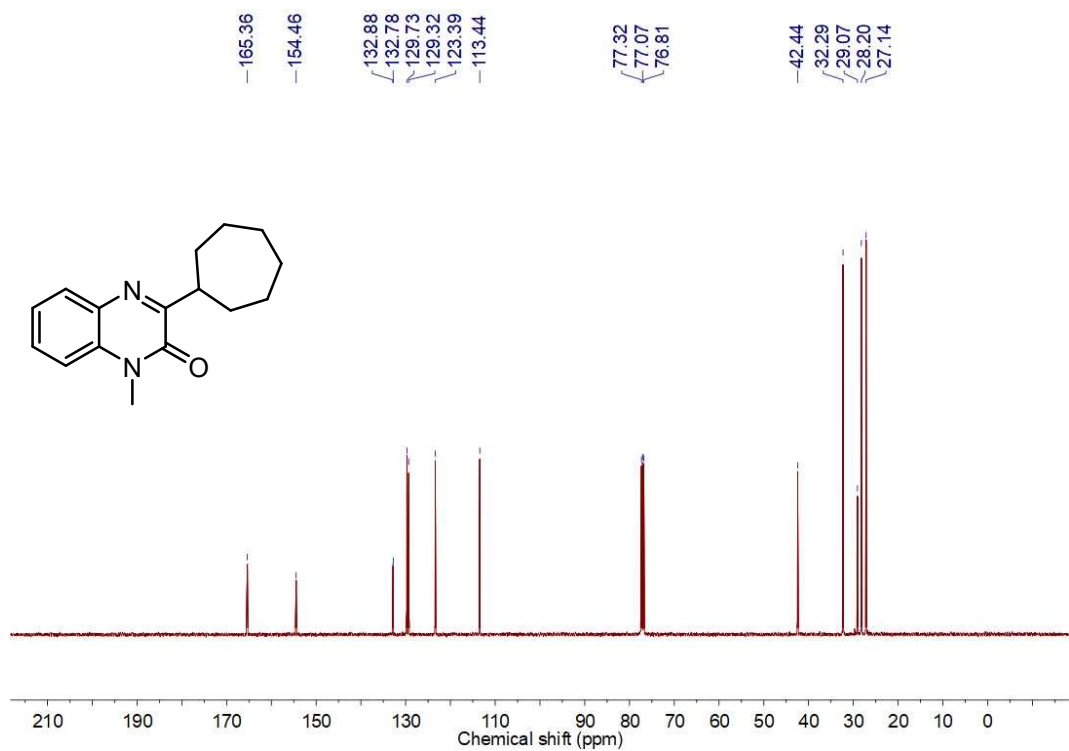
### 3aj <sup>13</sup>C NMR



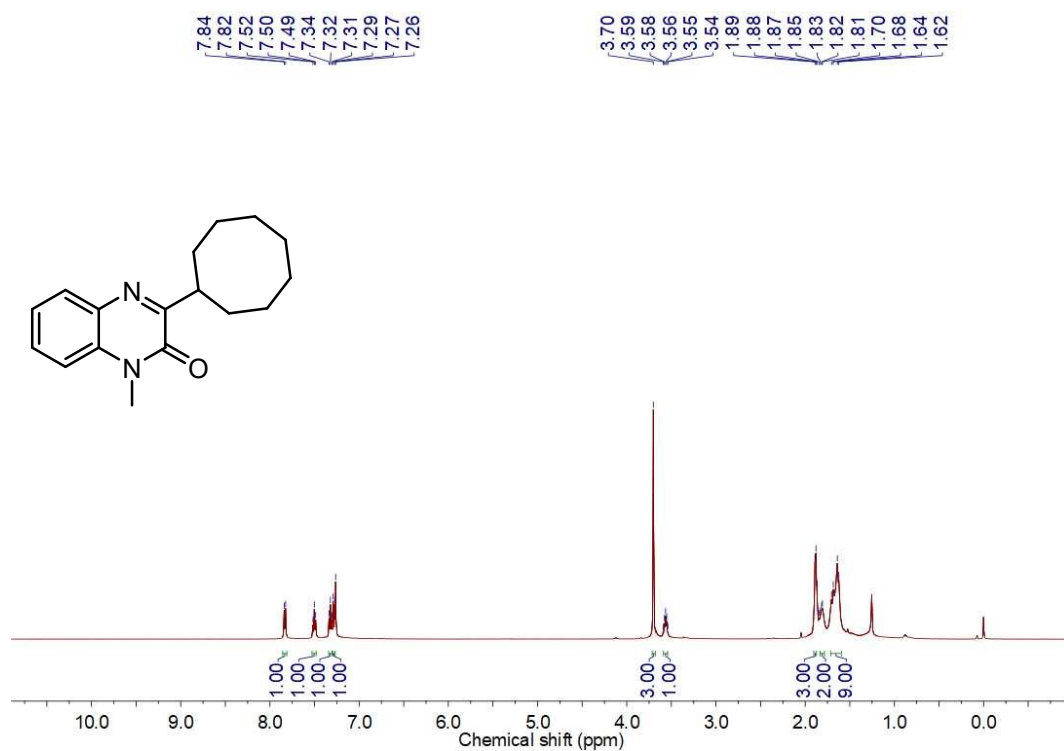
### 3ak <sup>1</sup>H NMR



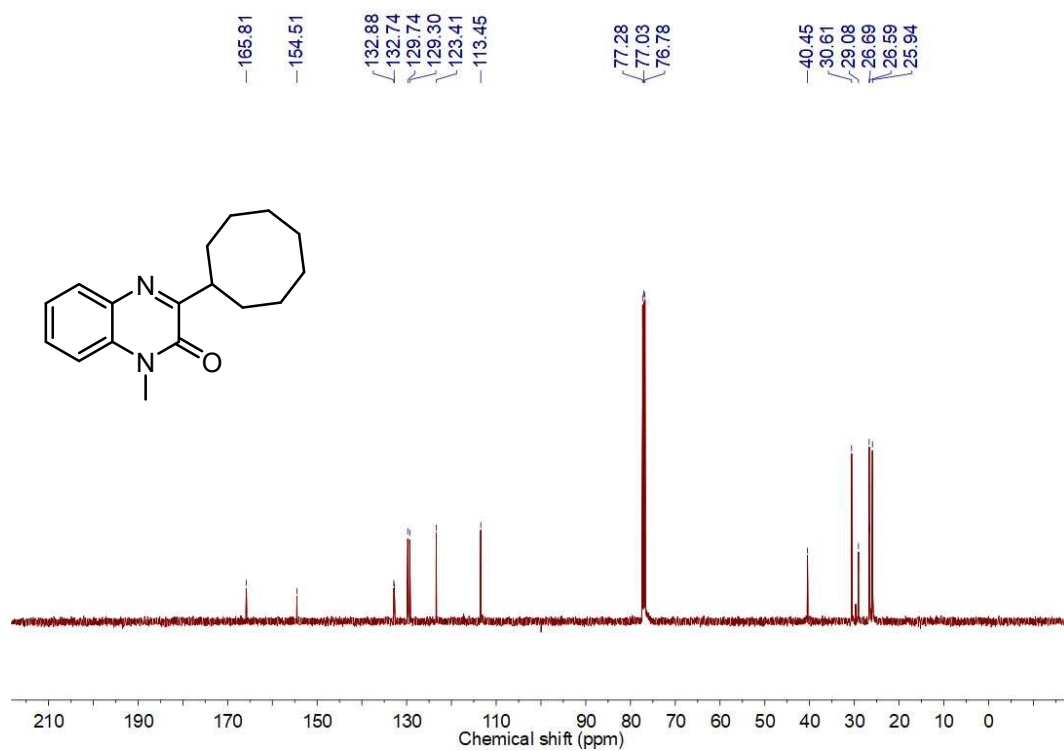
### 3ak <sup>13</sup>C NMR



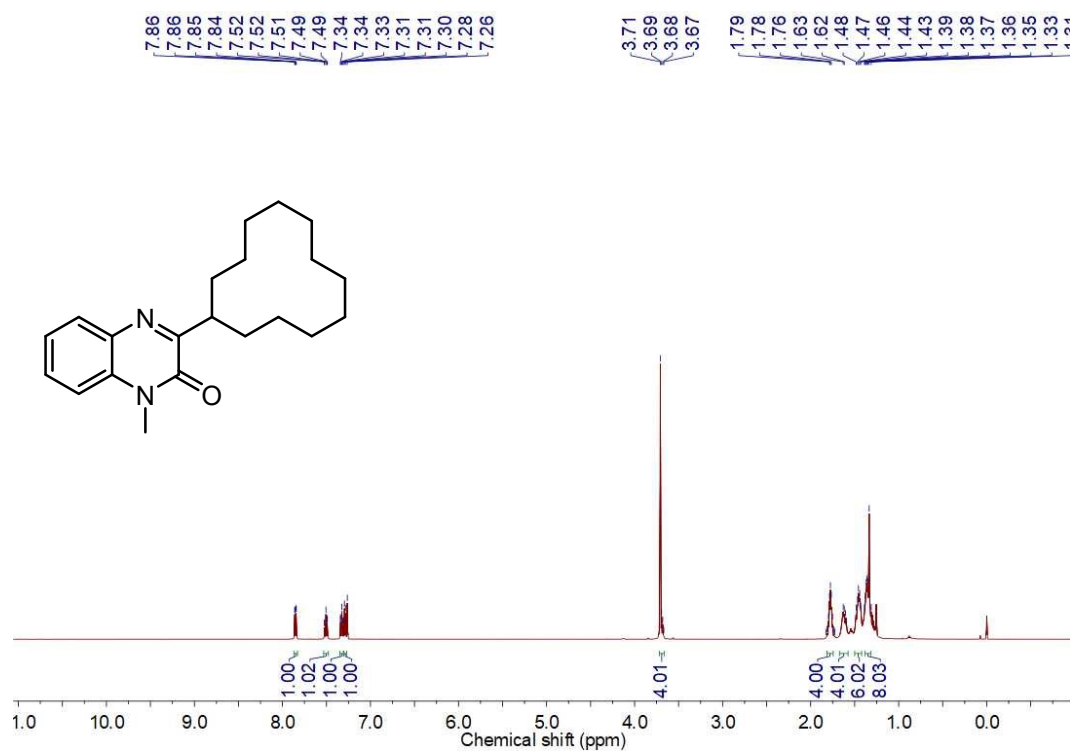
### 3aI $^1\text{H}$ NMR



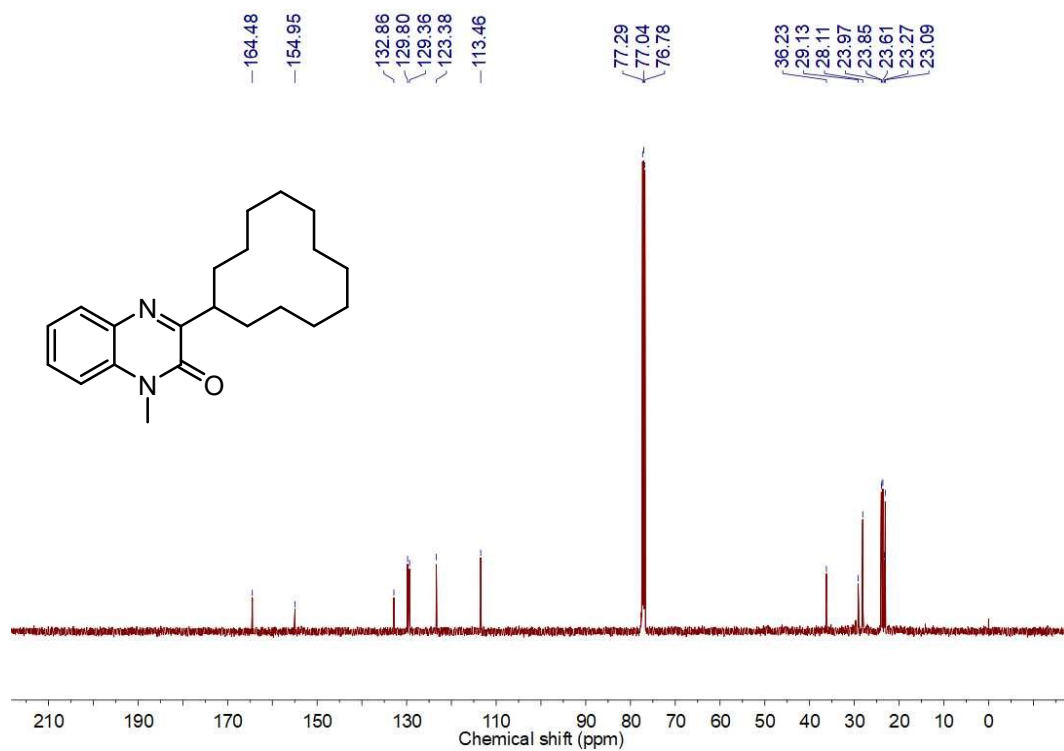
### 3aI $^{13}\text{C}$ NMR



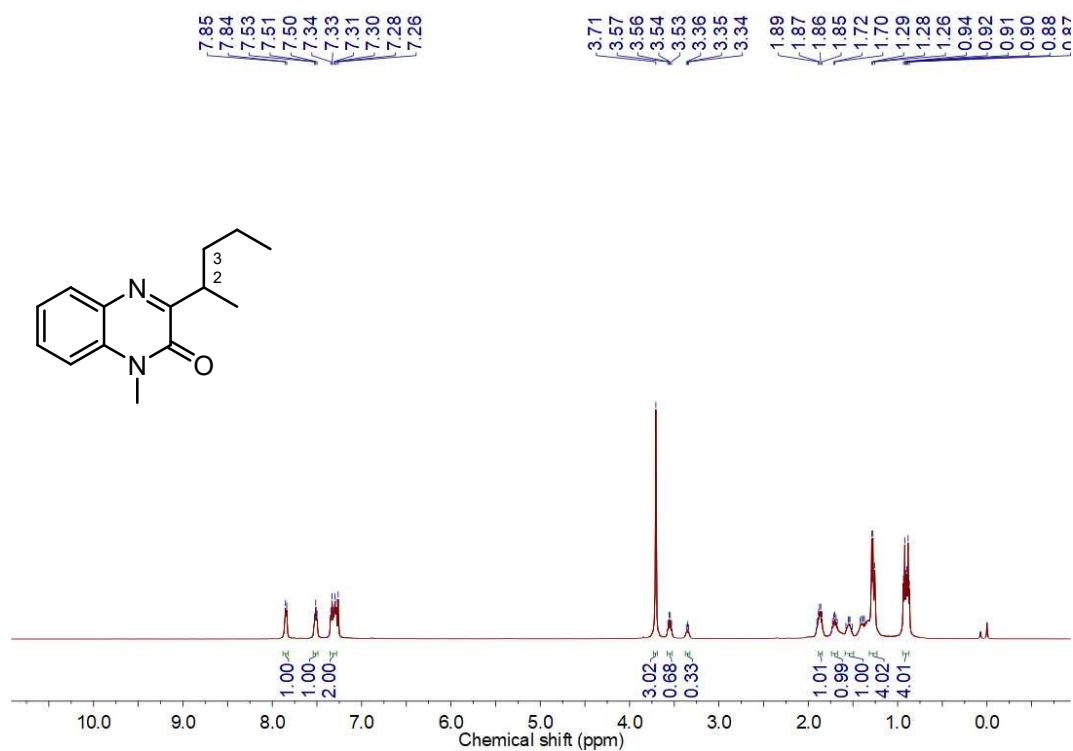
### 3am <sup>1</sup>H NMR



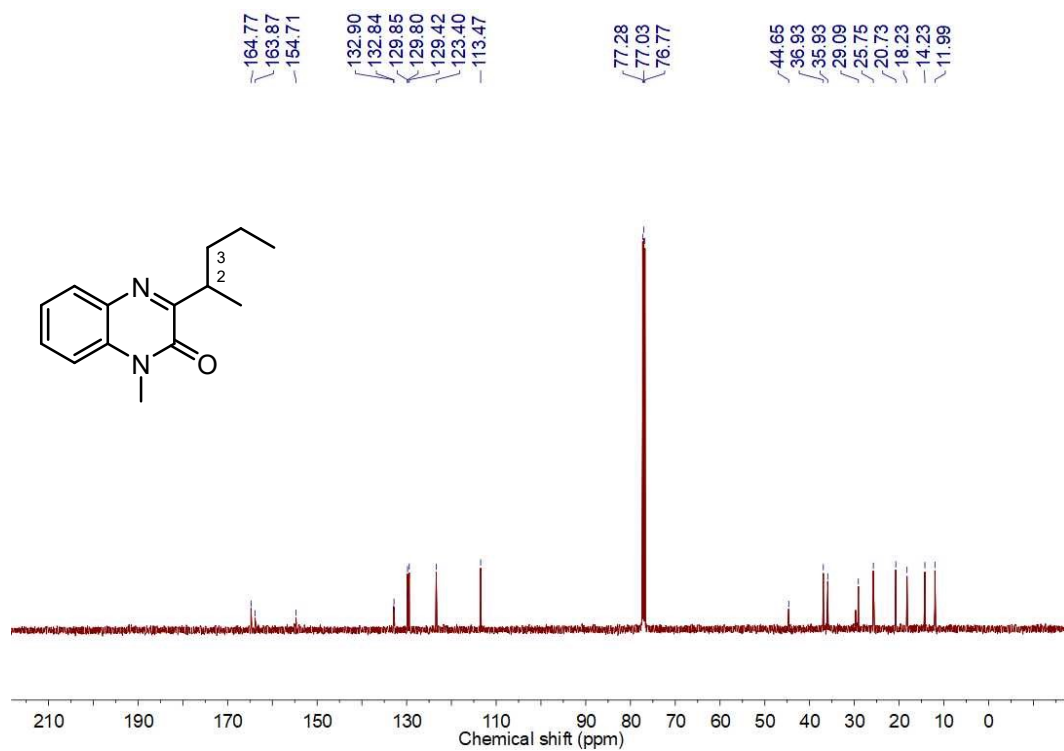
### 3am <sup>13</sup>C NMR



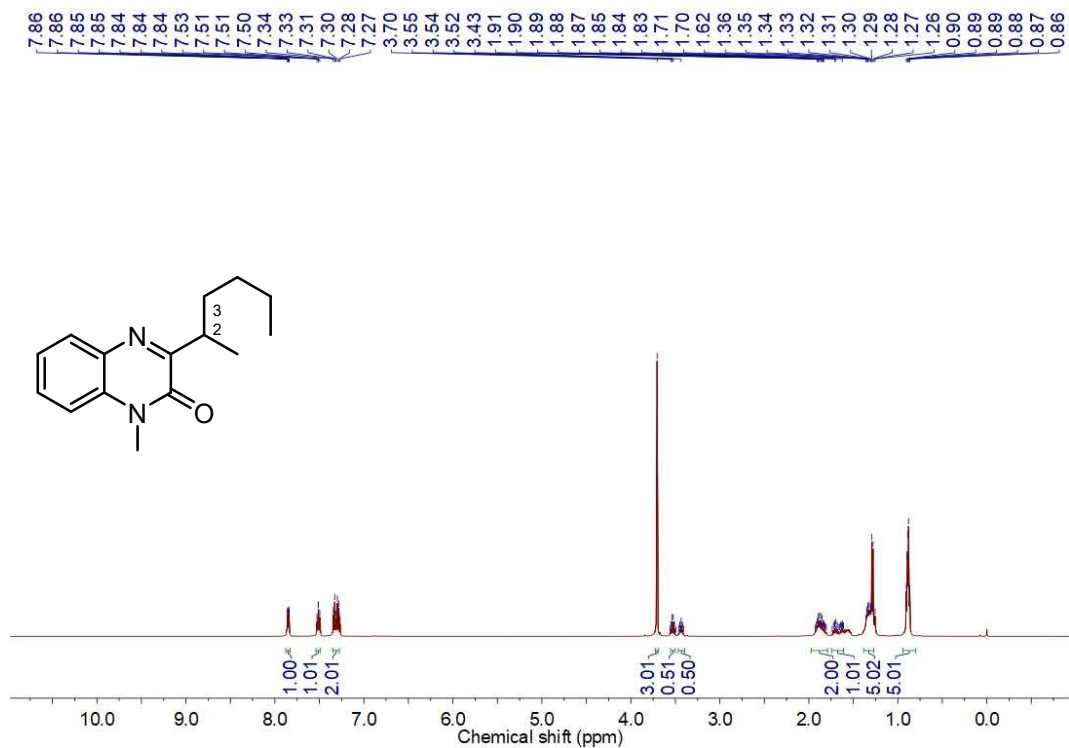
### 3an $^1\text{H}$ NMR



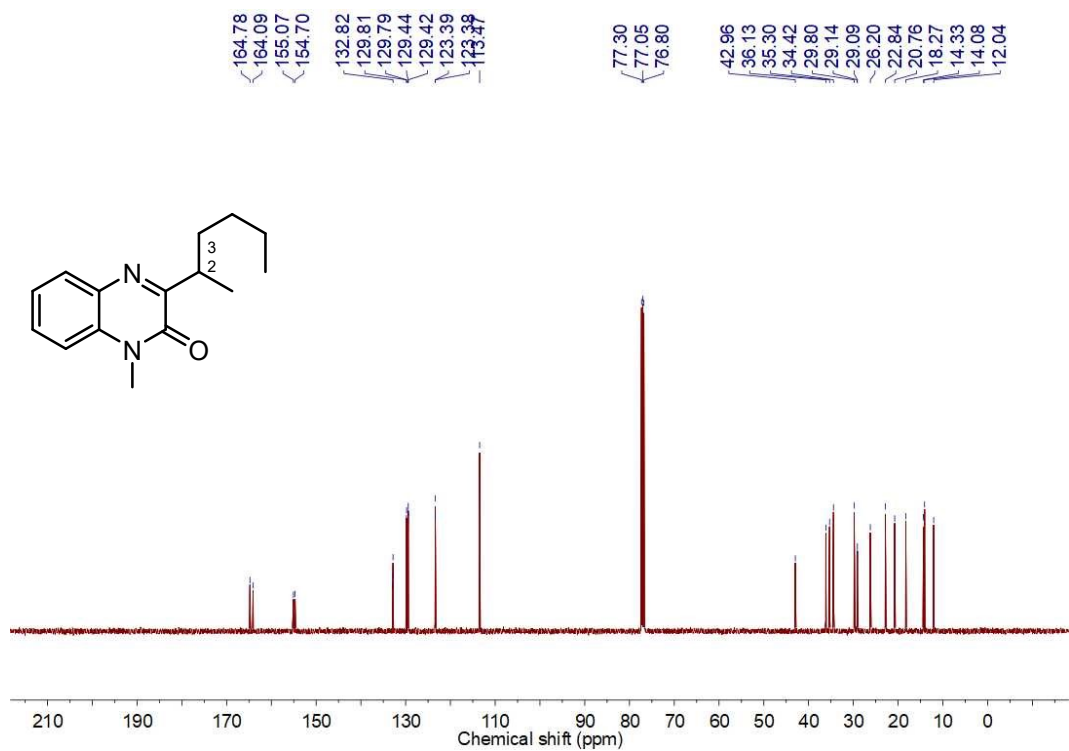
### 3an $^{13}\text{C}$ NMR



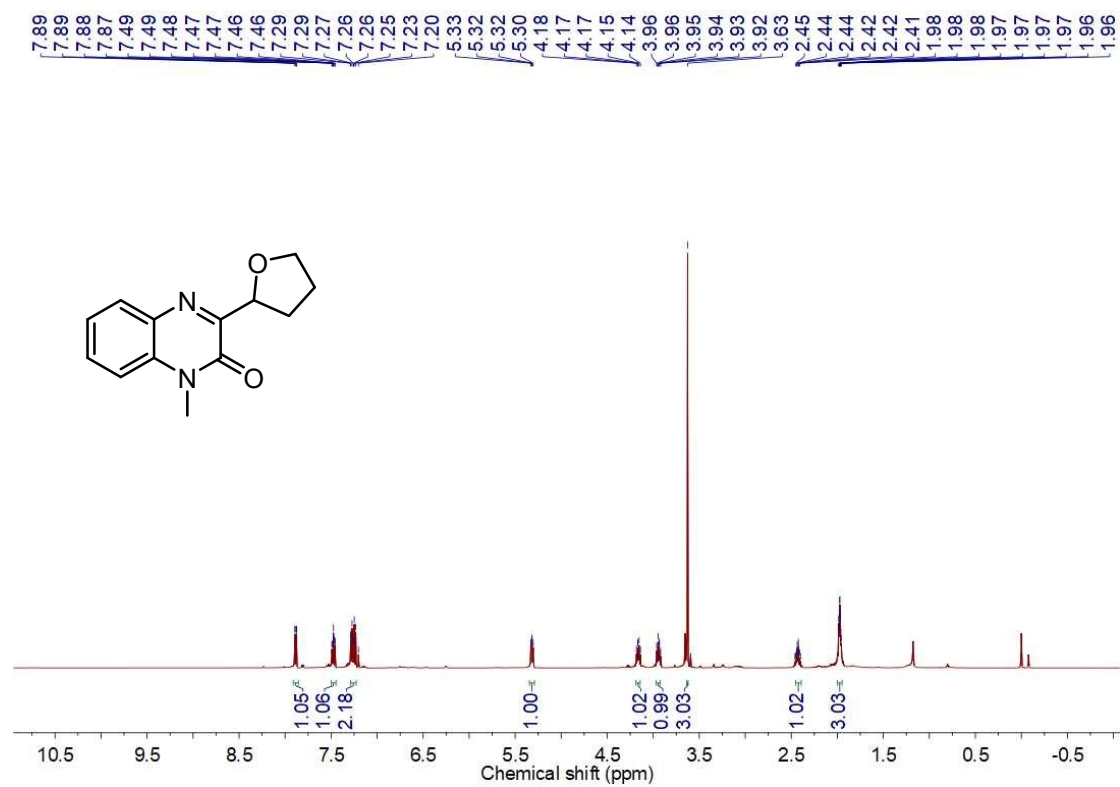
### 3ao <sup>1</sup>H NMR



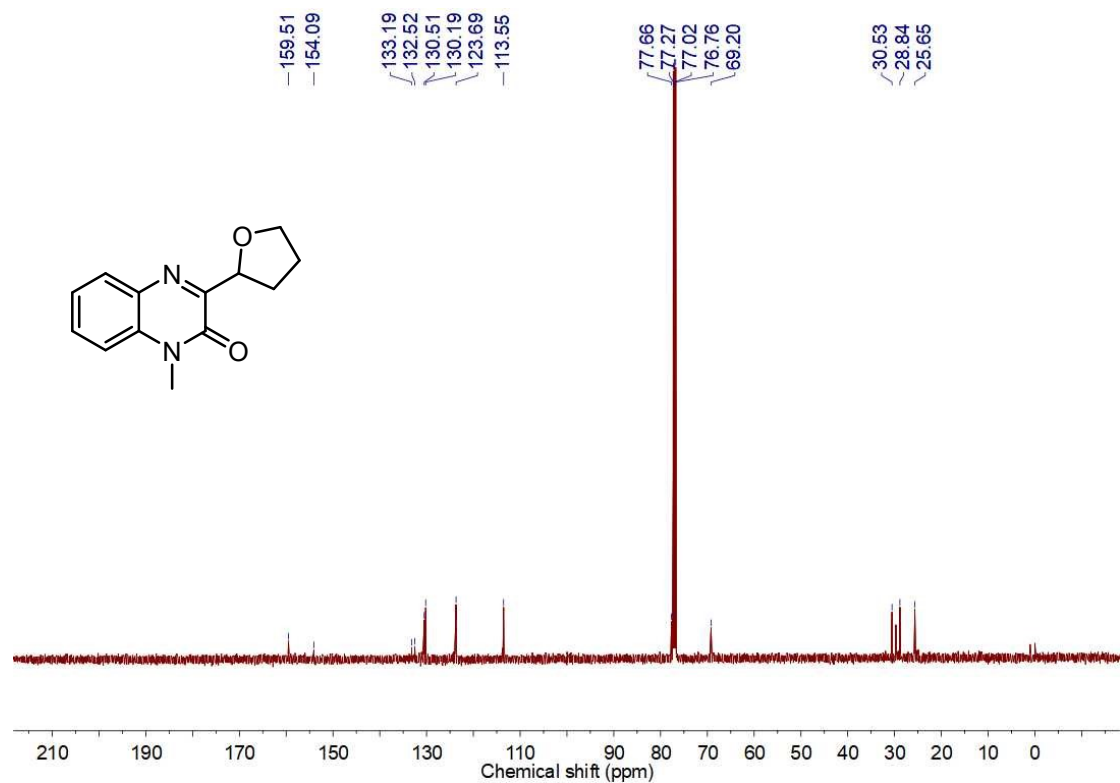
### 3ao <sup>13</sup>C NMR



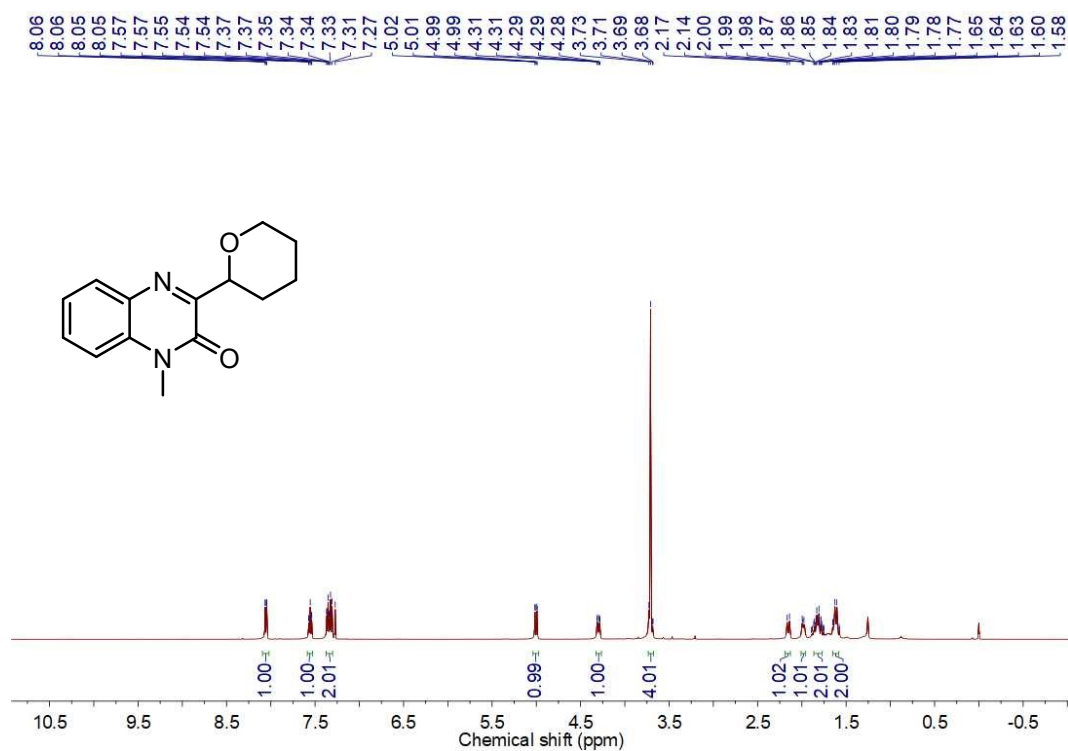
### 3ap <sup>1</sup>H NMR



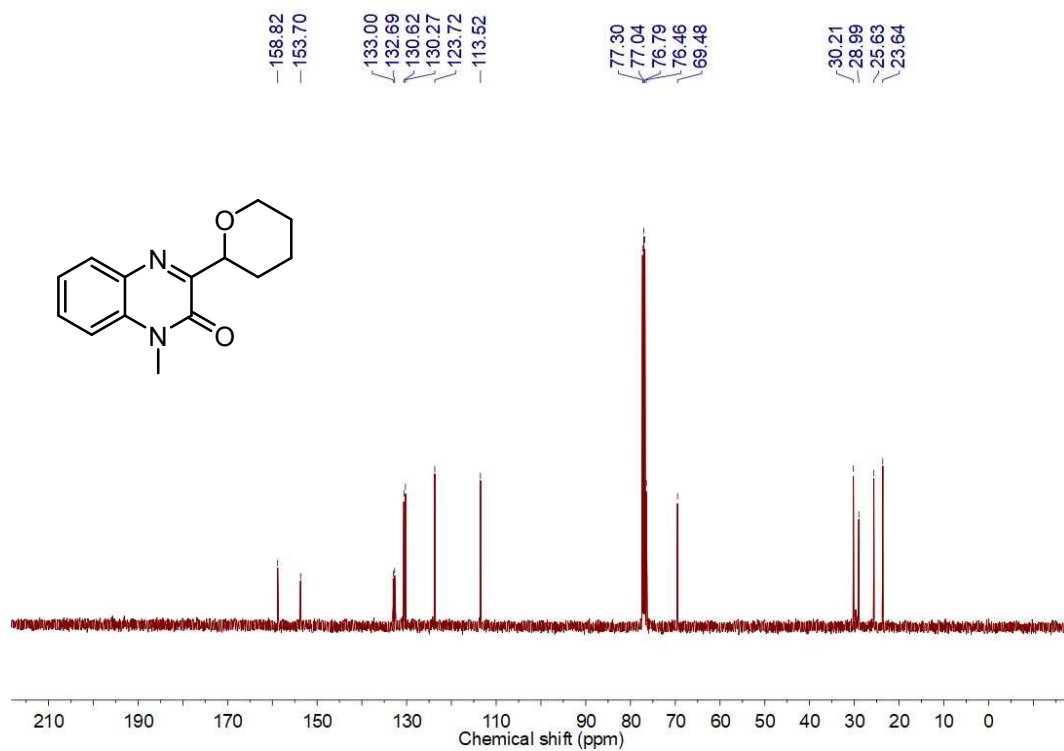
### 3ap <sup>13</sup>C NMR



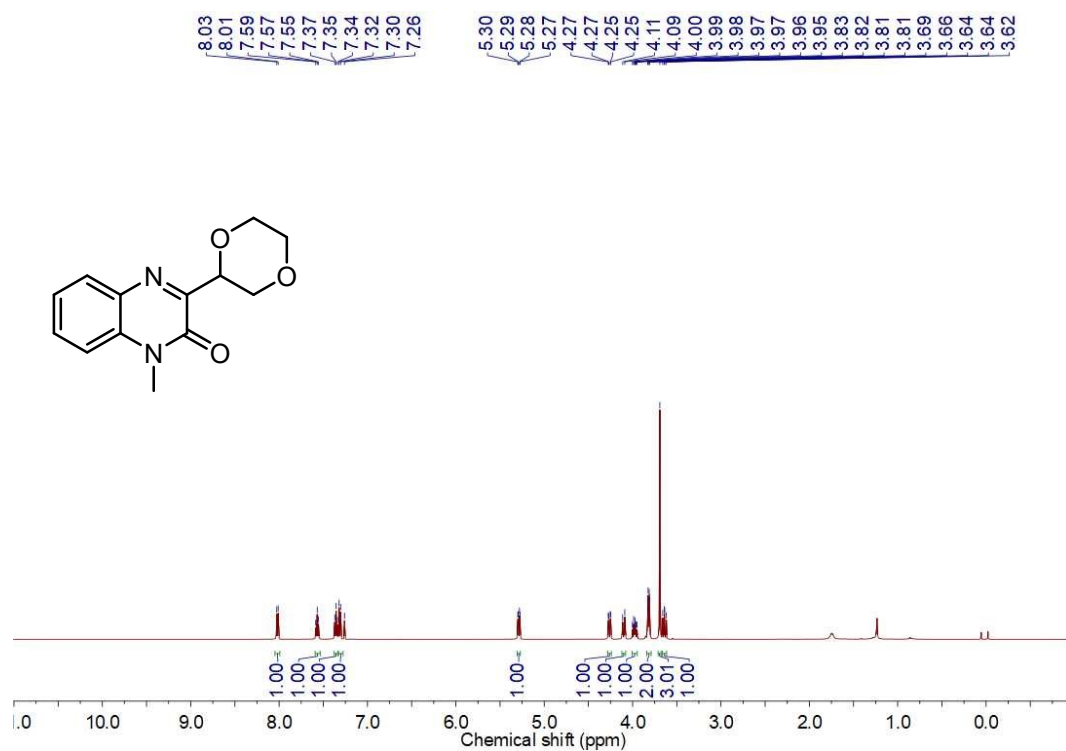
### 3aq $^1\text{H}$ NMR



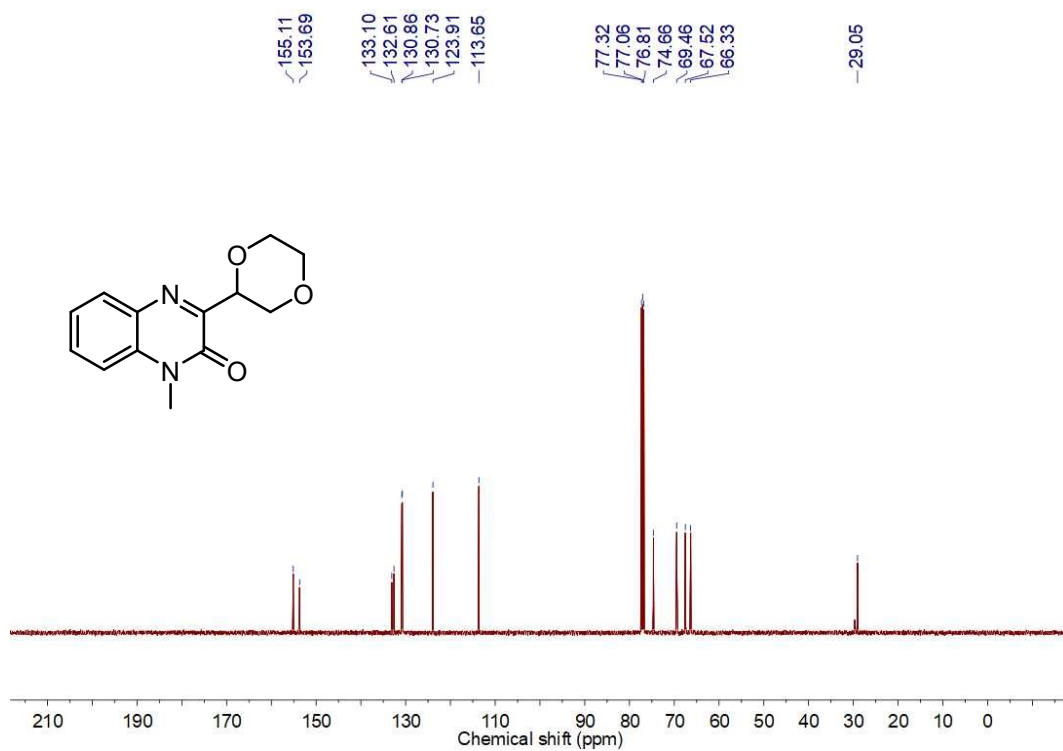
### 3aq $^{13}\text{C}$ NMR



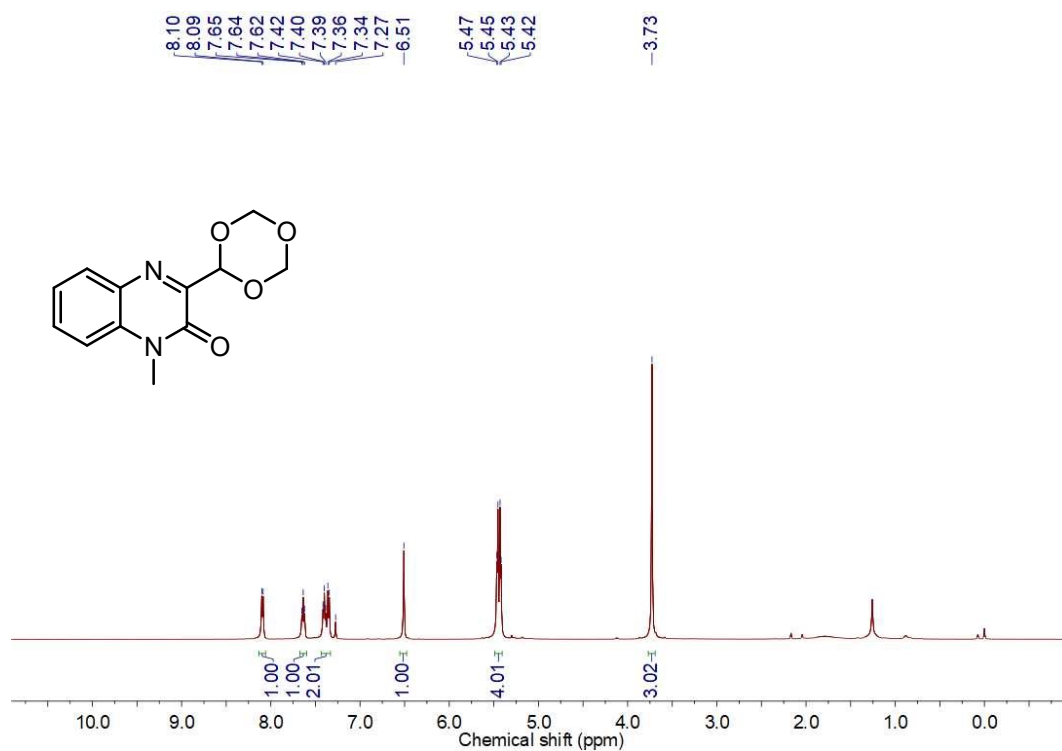
### 3ar <sup>1</sup>H NMR



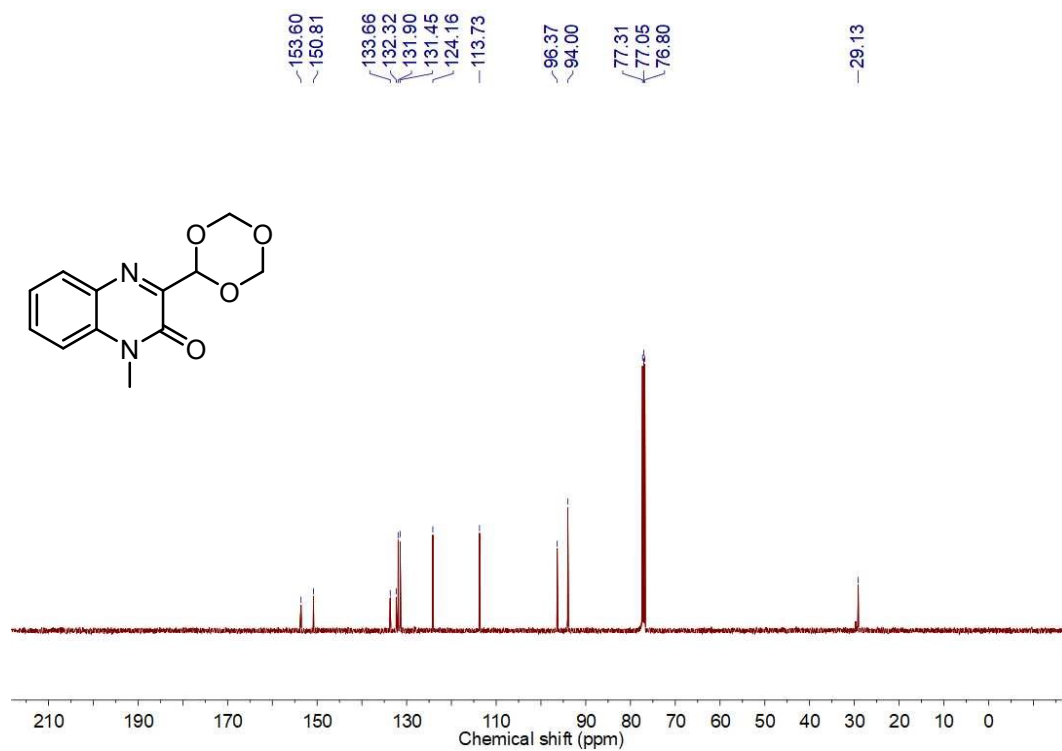
### 3ar <sup>13</sup>C NMR



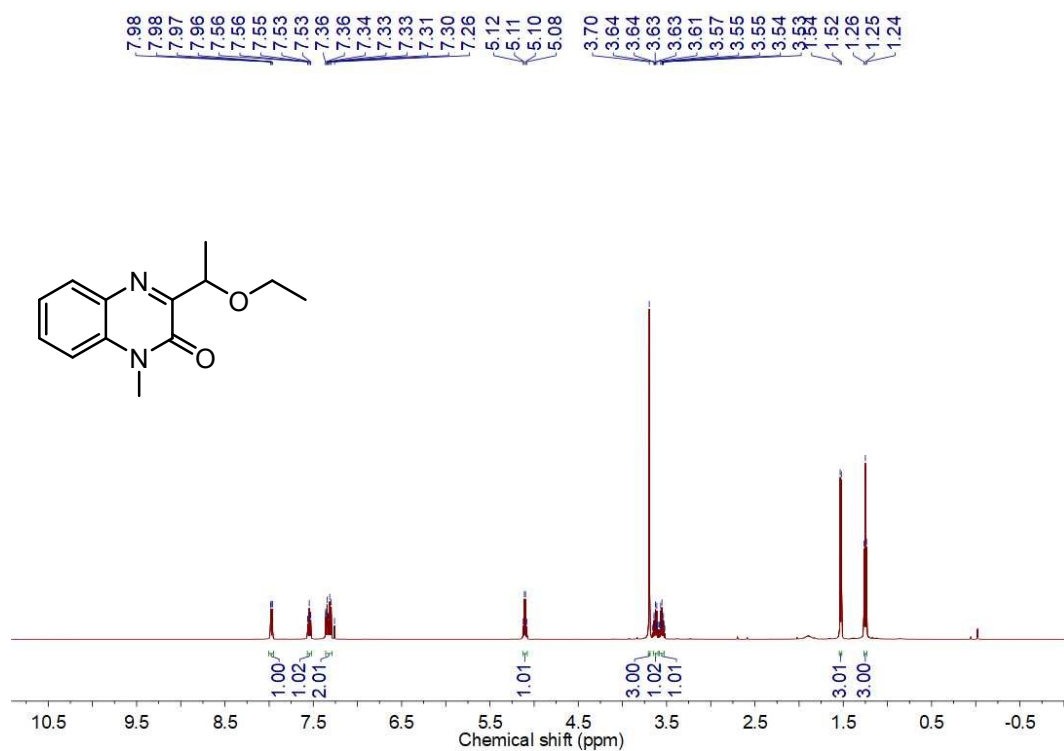
### 3as <sup>1</sup>H NMR



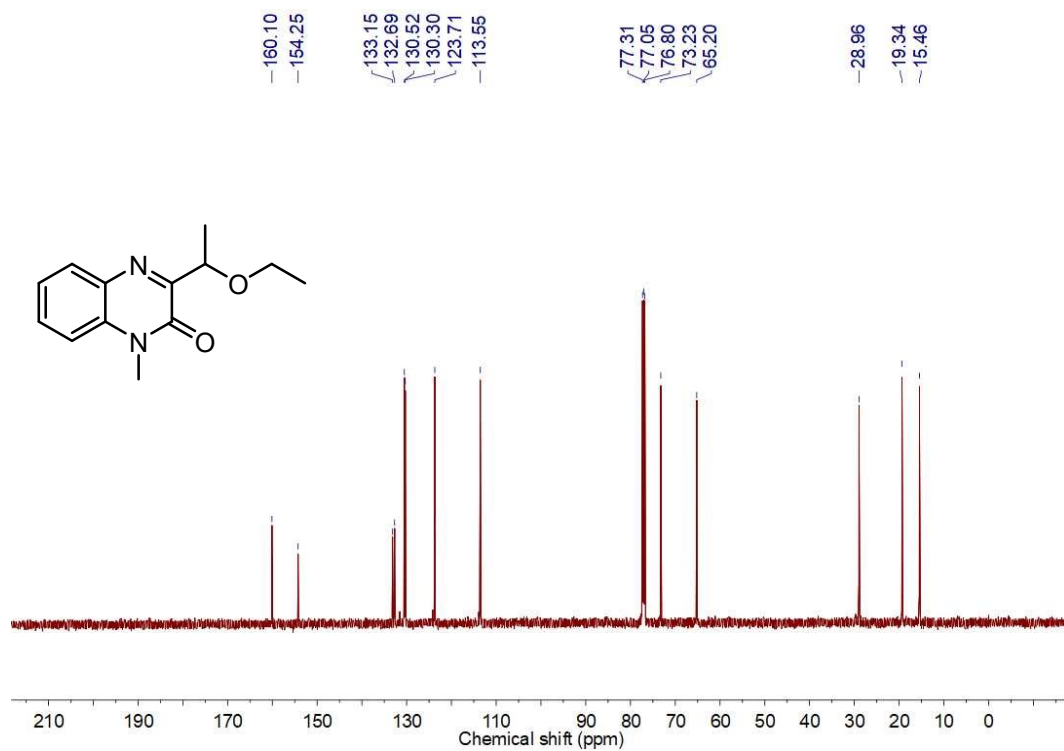
### 3as <sup>13</sup>C NMR



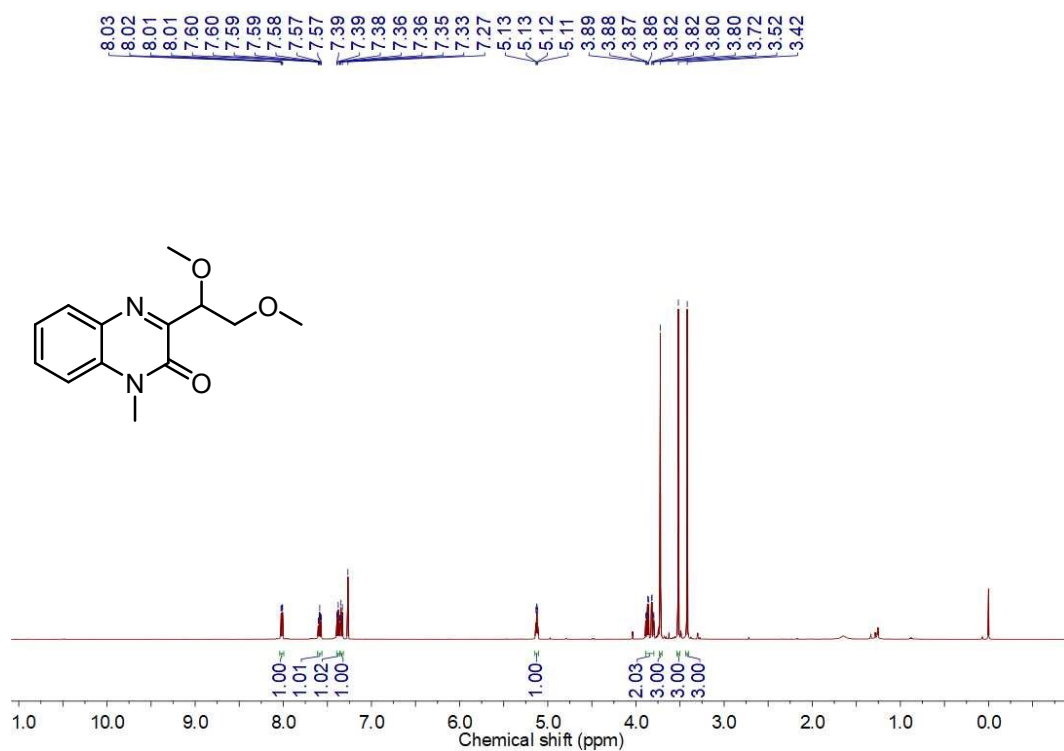
### 3at <sup>1</sup>H NMR



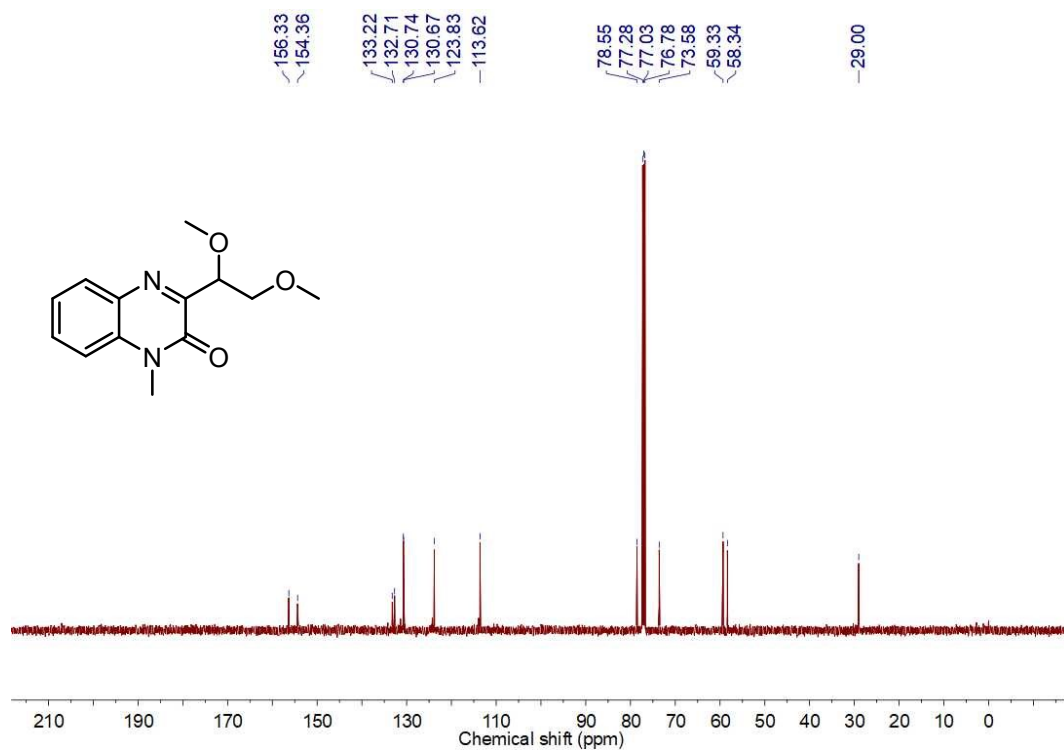
### 3at <sup>13</sup>C NMR



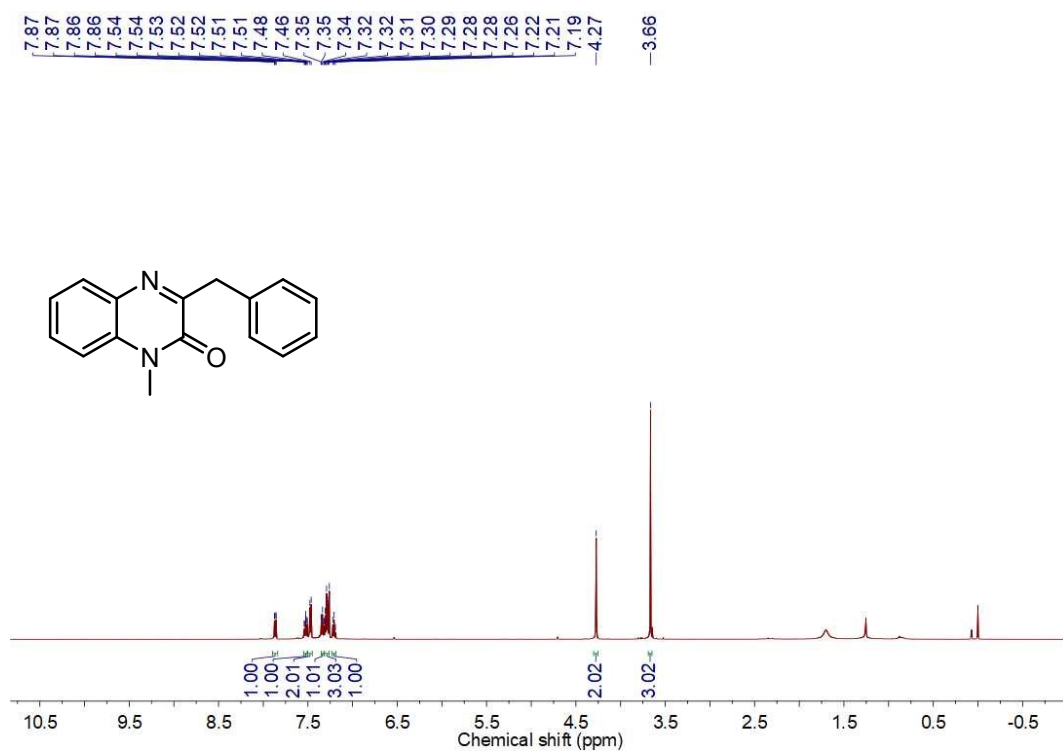
### 3au $^1\text{H}$ NMR



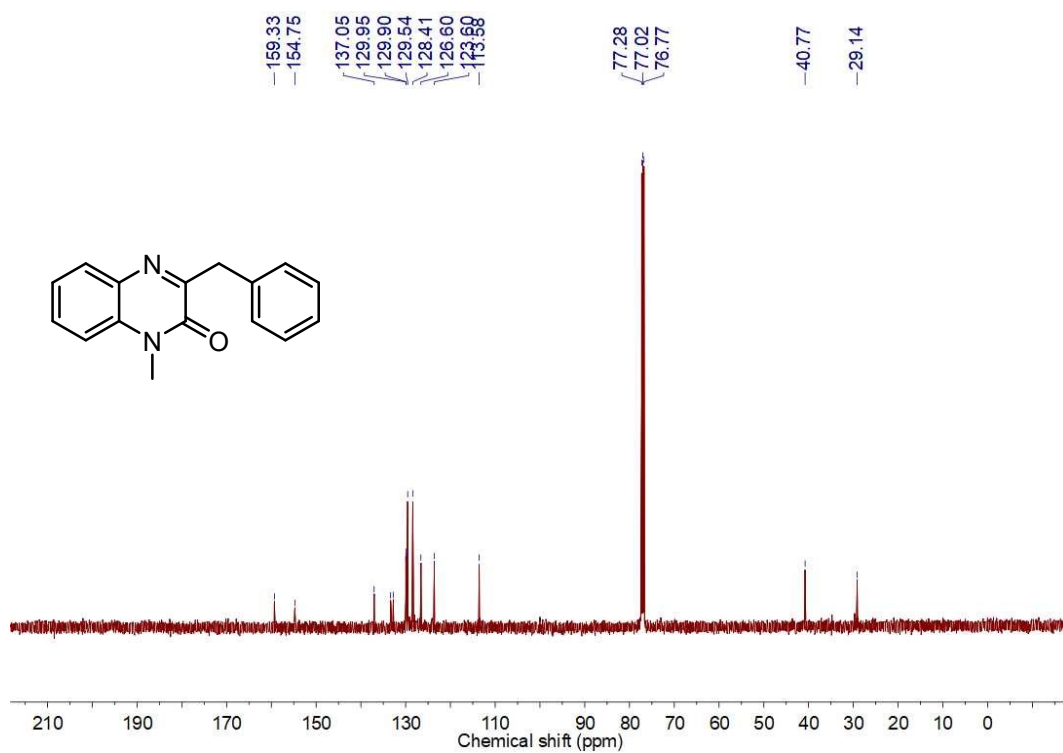
### 3au $^{13}\text{C}$ NMR



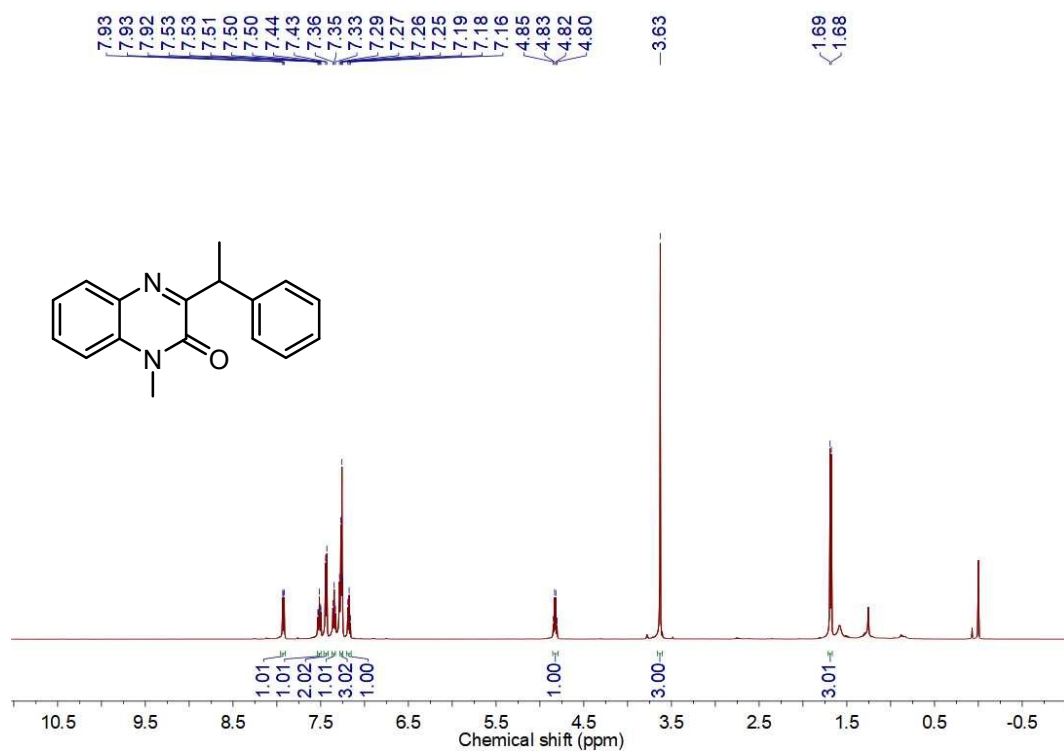
### 3av <sup>1</sup>H NMR



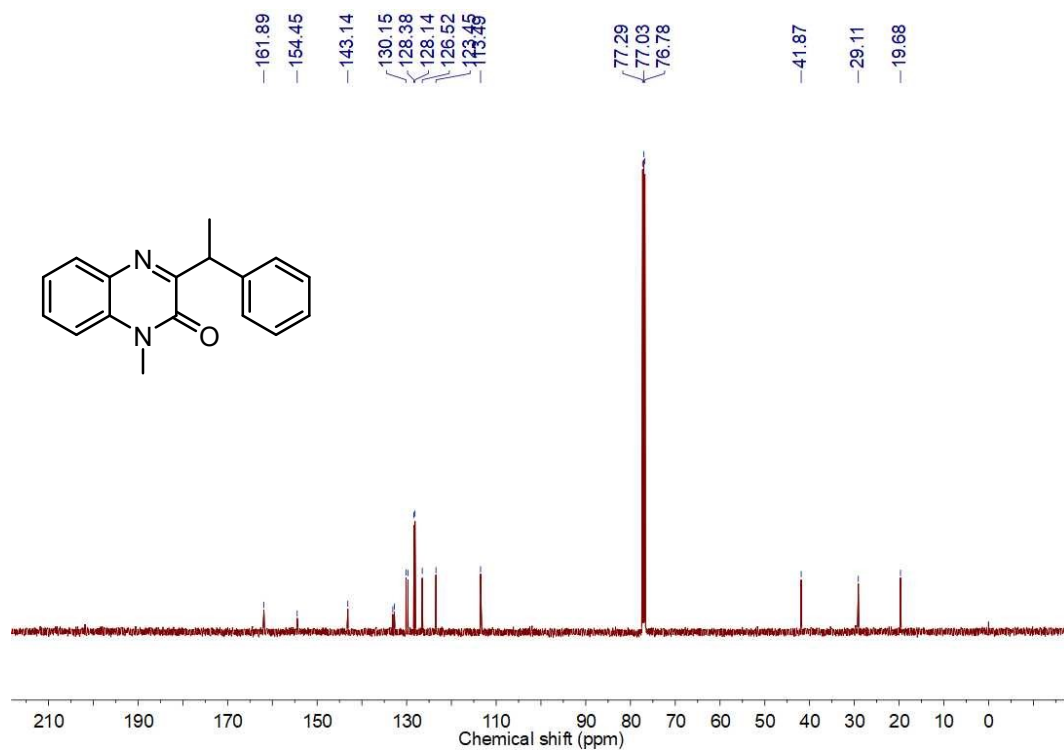
### 3av <sup>13</sup>C NMR



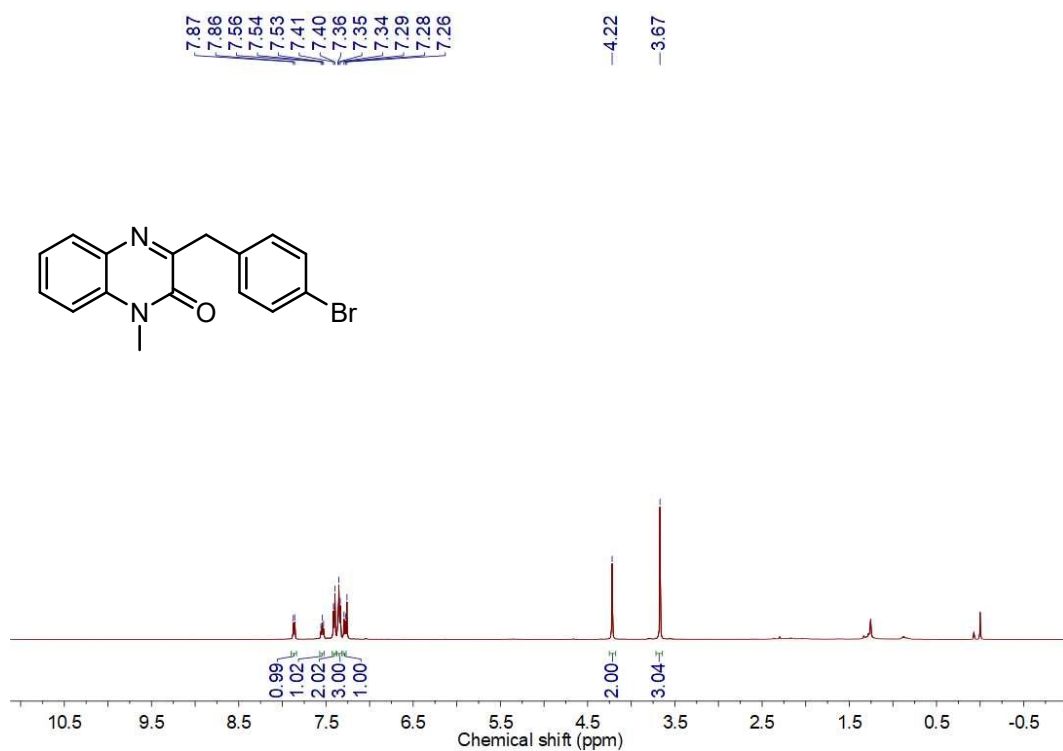
### 3aw $^1\text{H}$ NMR



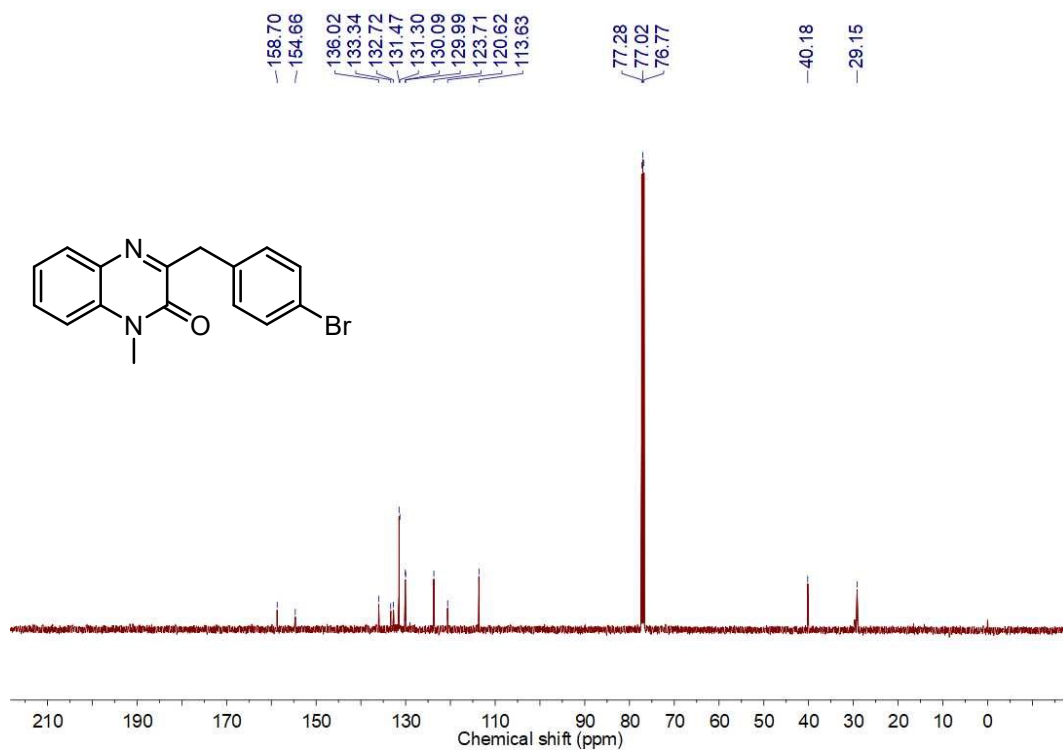
### 3aw $^{13}\text{C}$ NMR



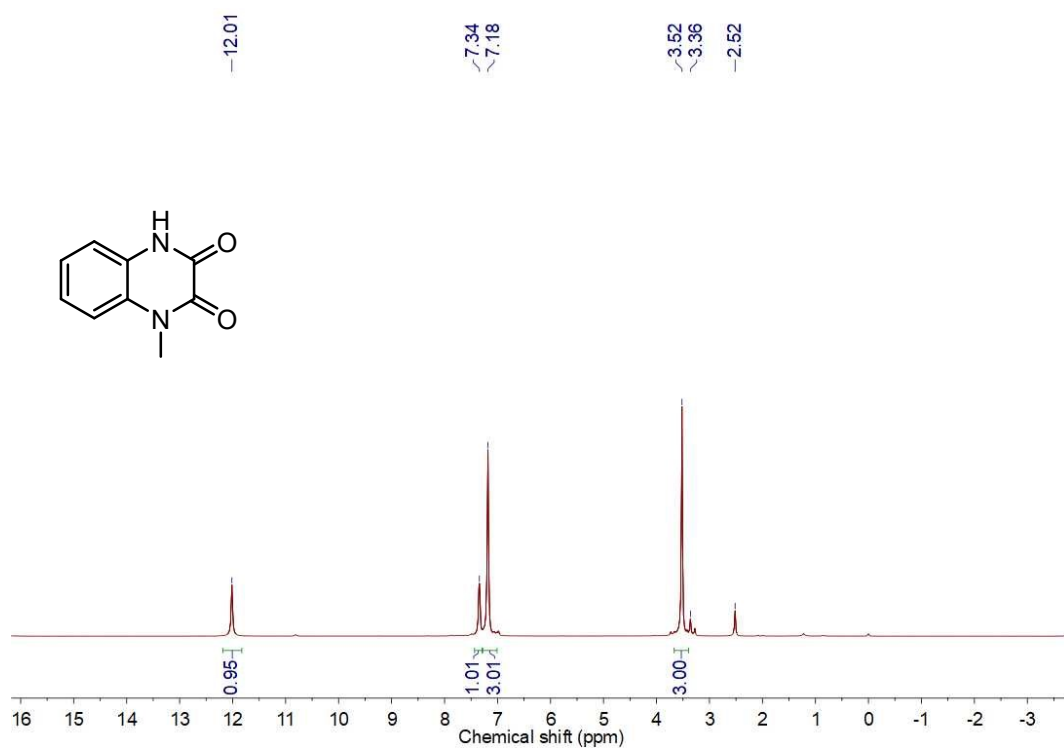
### 3ax $^1\text{H}$ NMR



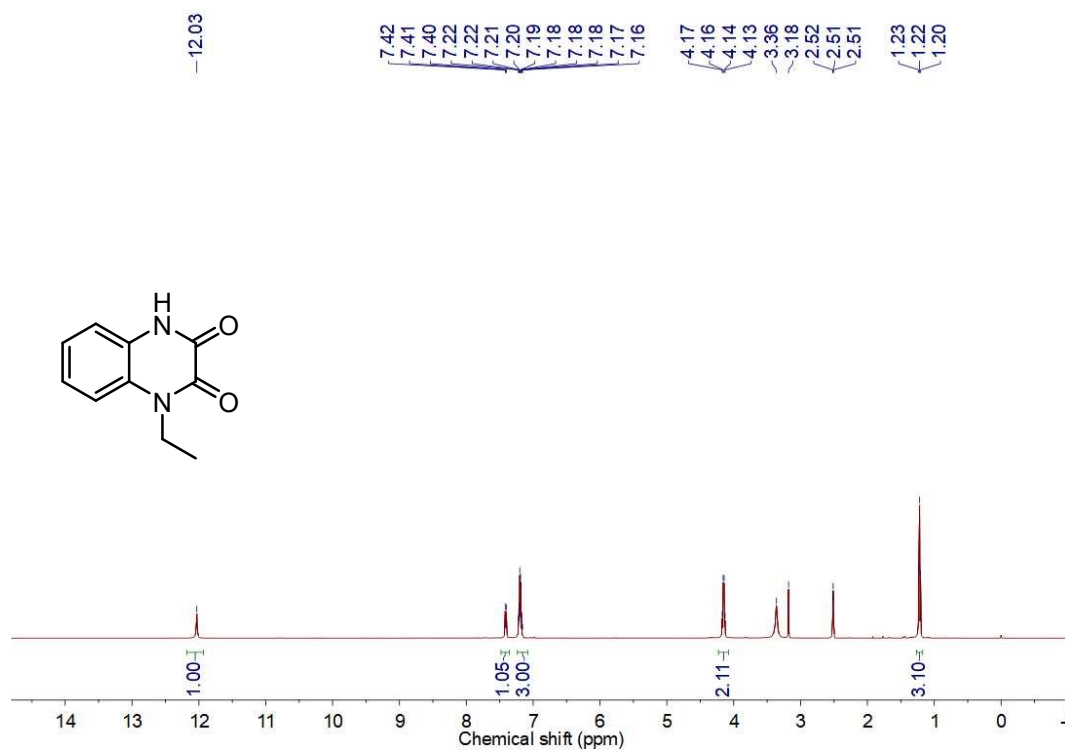
### 3ax $^{13}\text{C}$ NMR



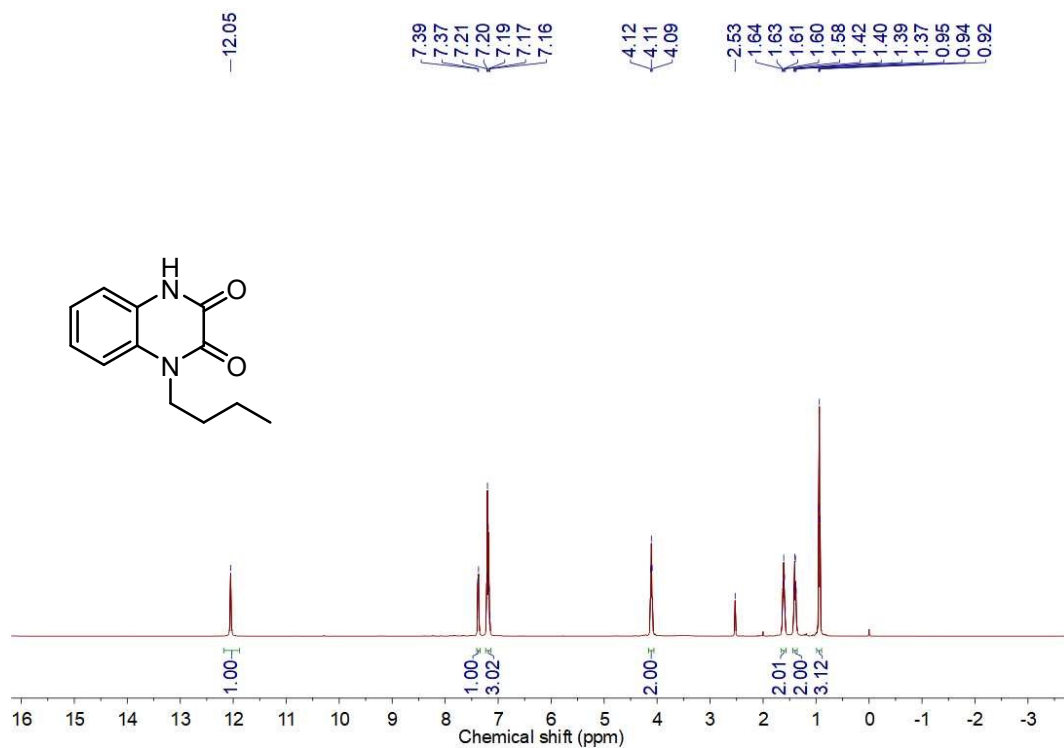
# 4a <sup>1</sup>H NMR



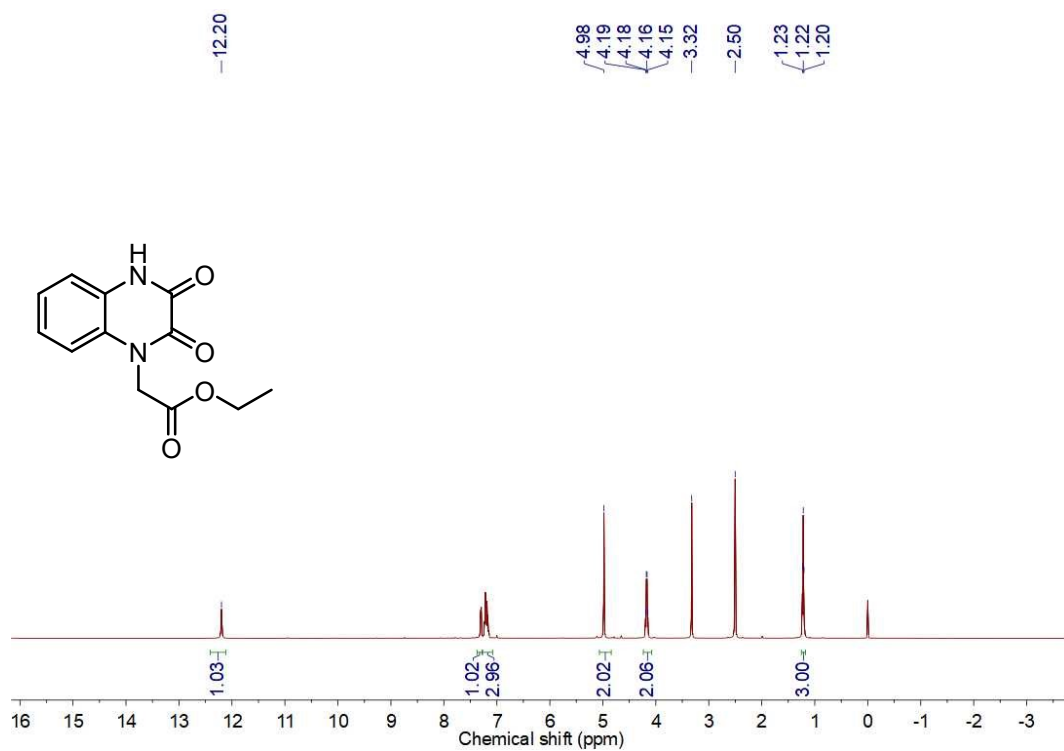
# 4b <sup>1</sup>H NMR



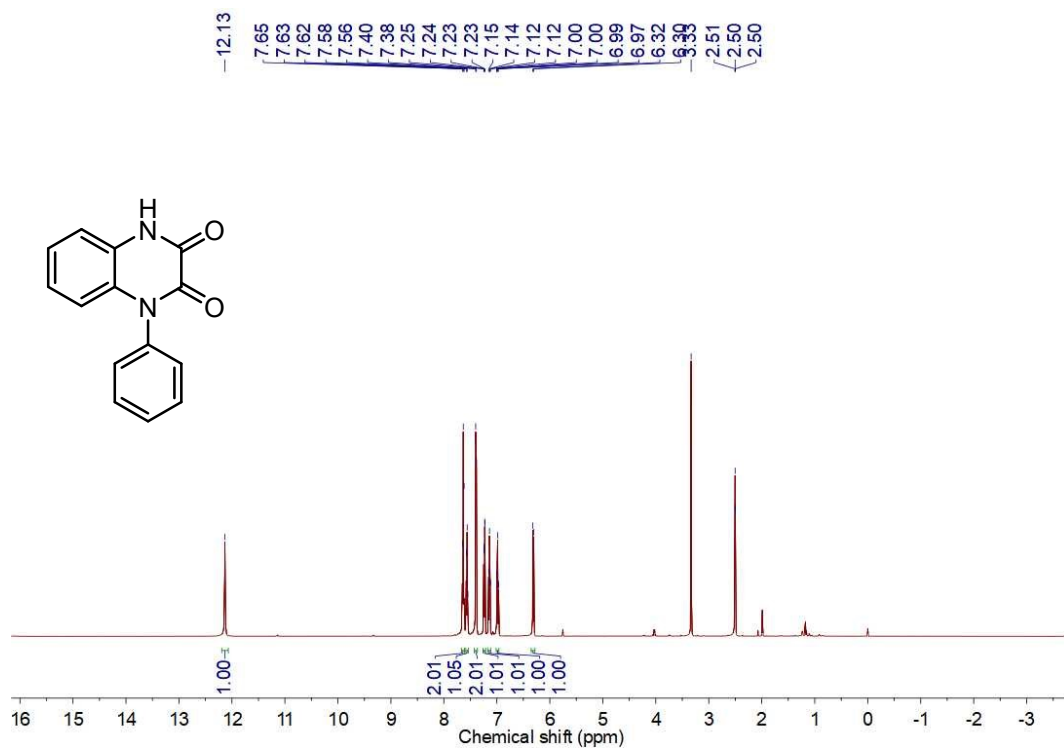
### 4c <sup>1</sup>H NMR



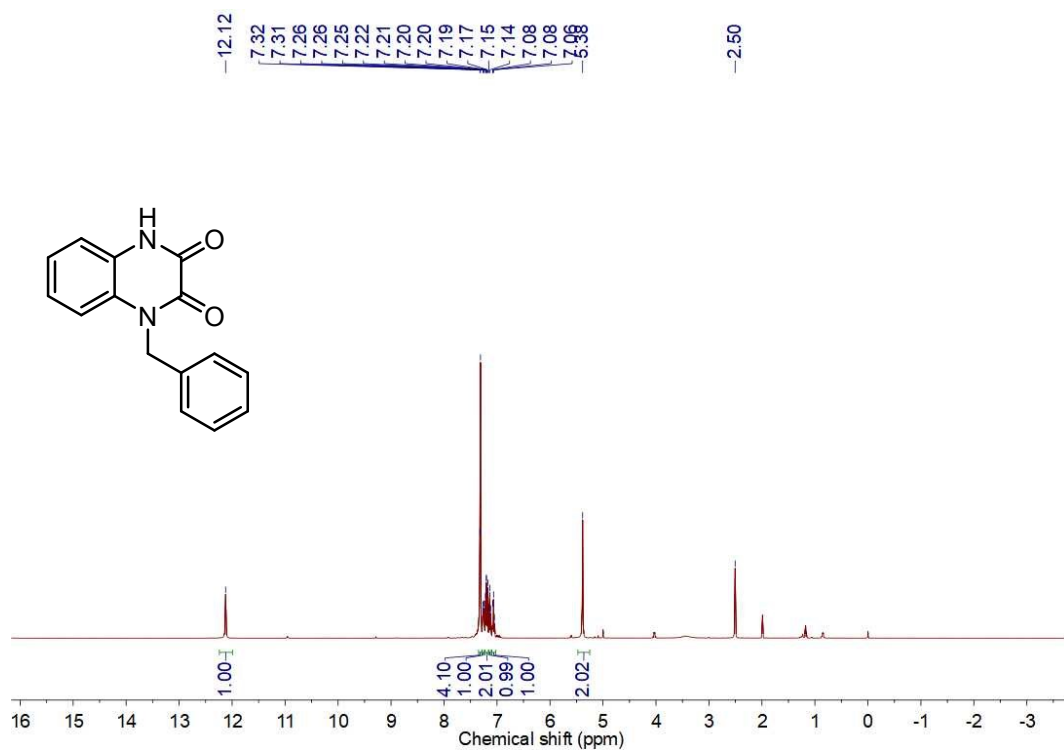
### 4d <sup>1</sup>H NMR



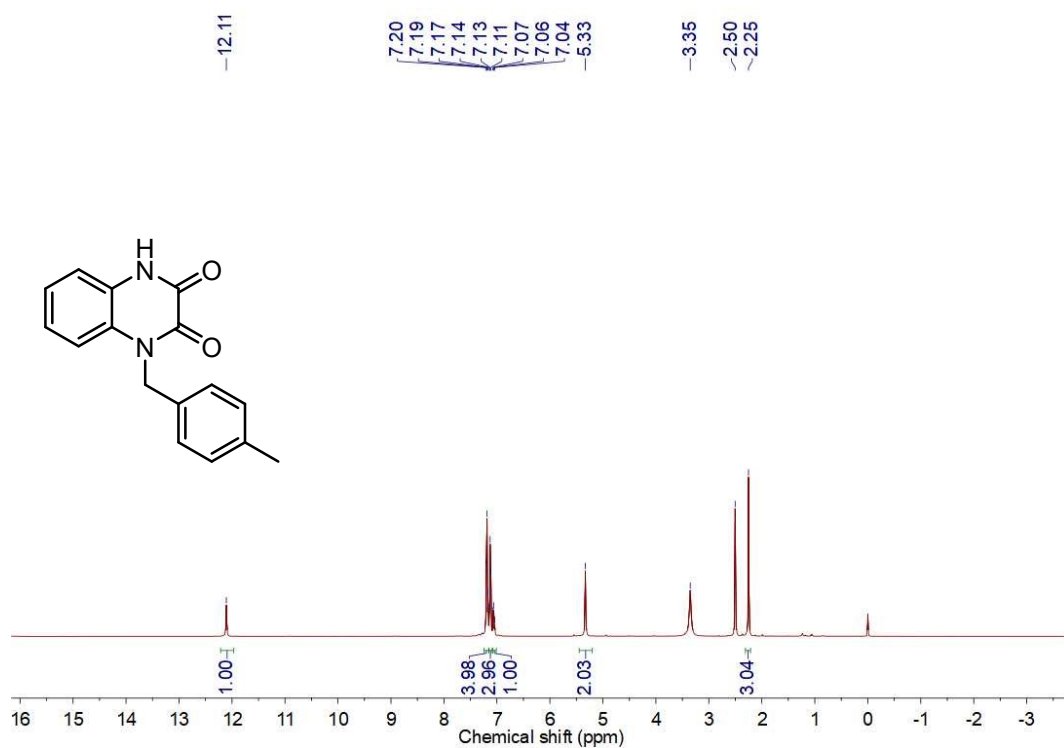
# 4e <sup>1</sup>H NMR



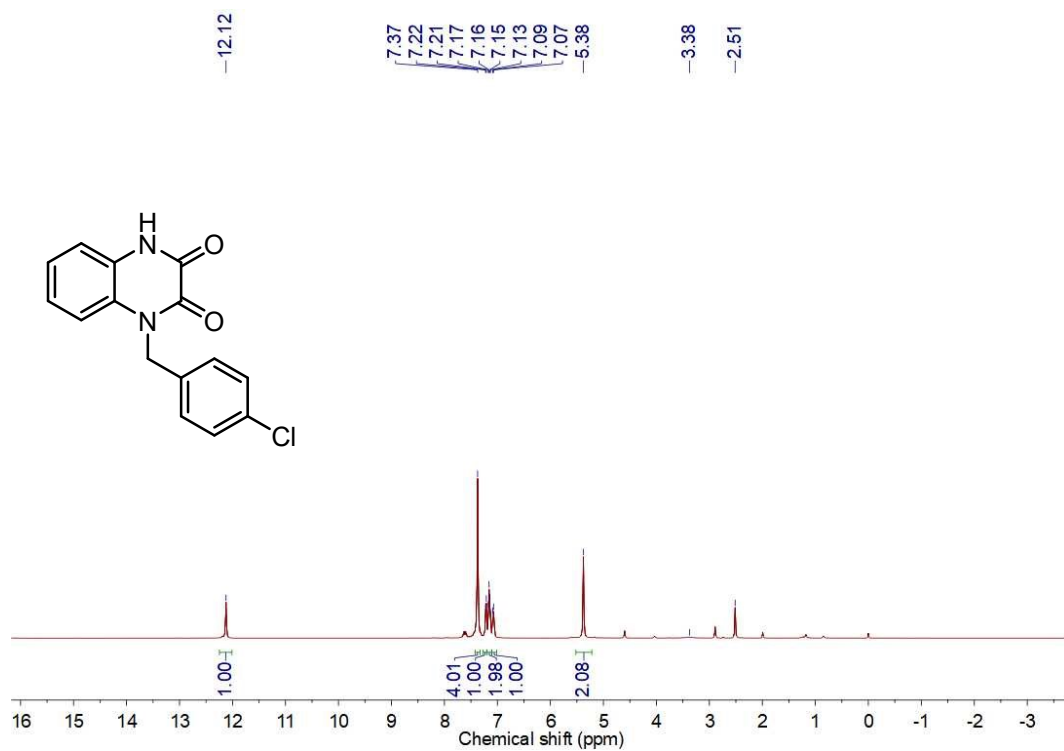
# 4f <sup>1</sup>H NMR



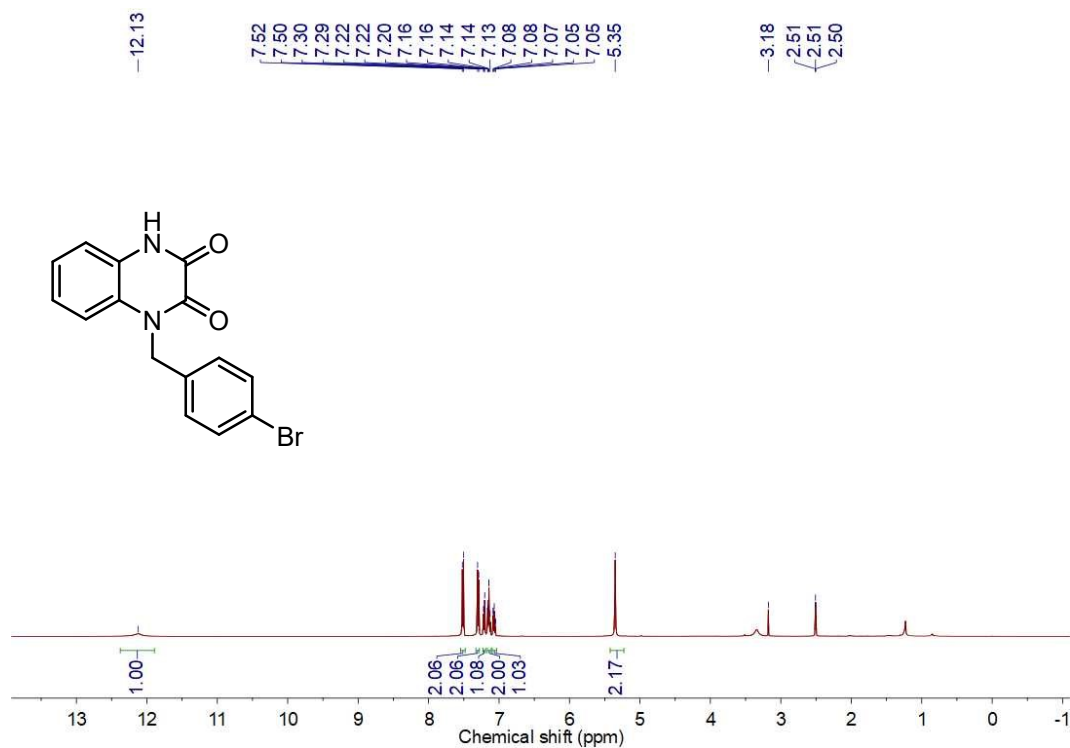
# 4g <sup>1</sup>H NMR



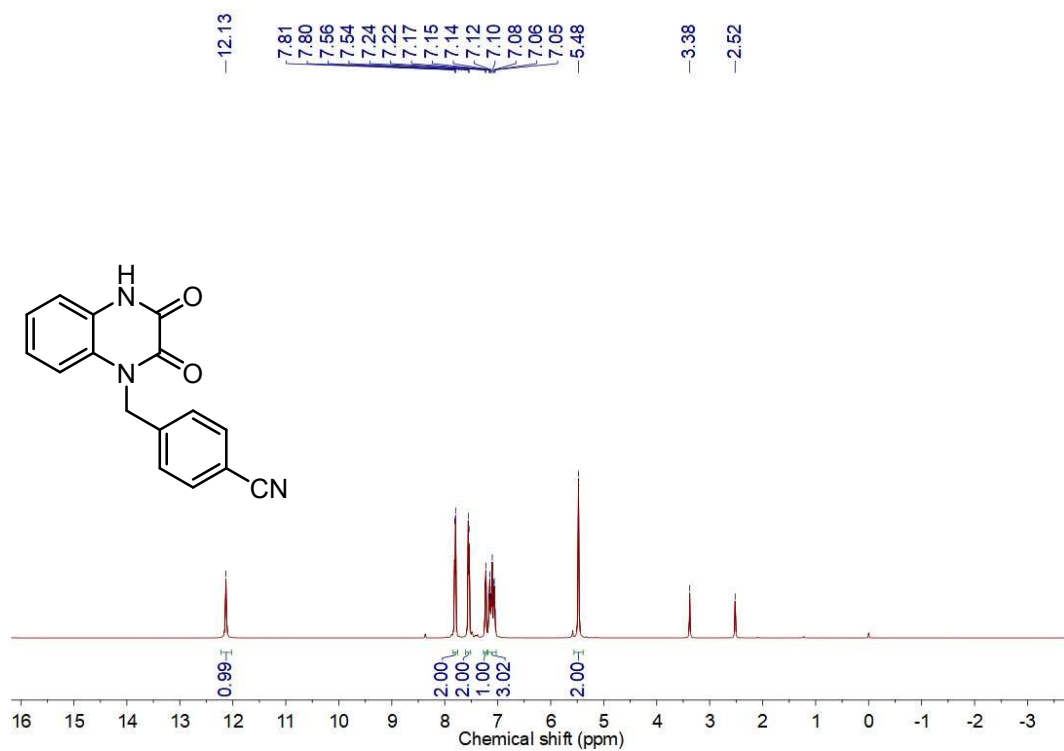
# 4h <sup>1</sup>H NMR



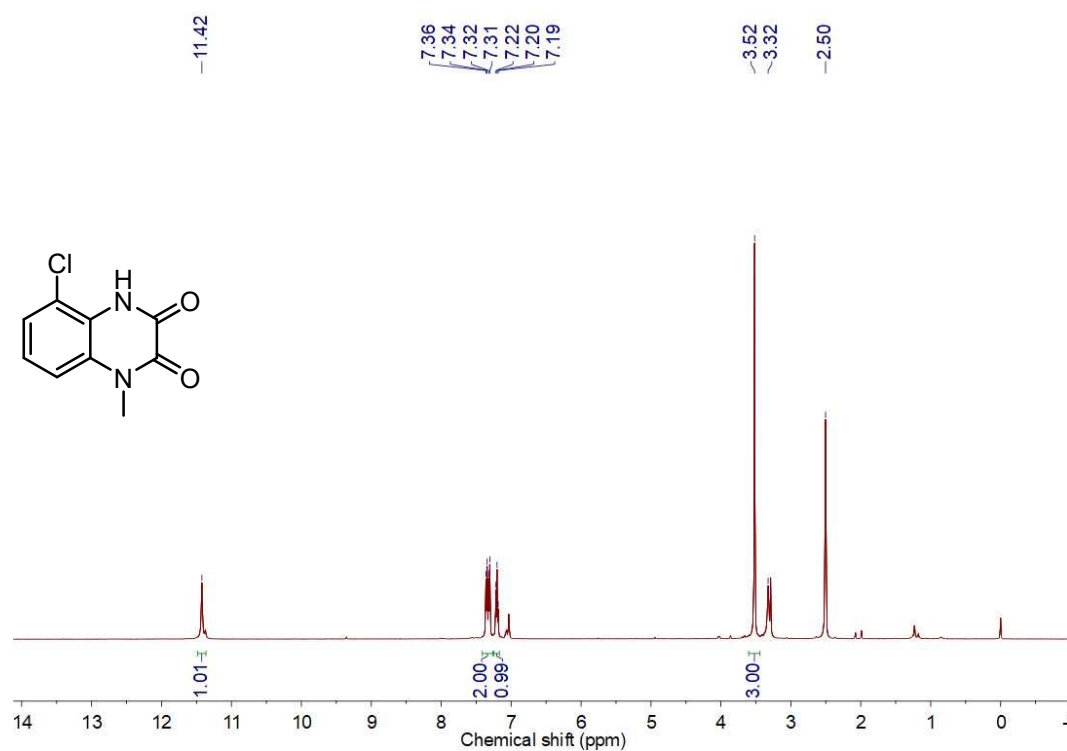
#### 4i <sup>1</sup>H NMR



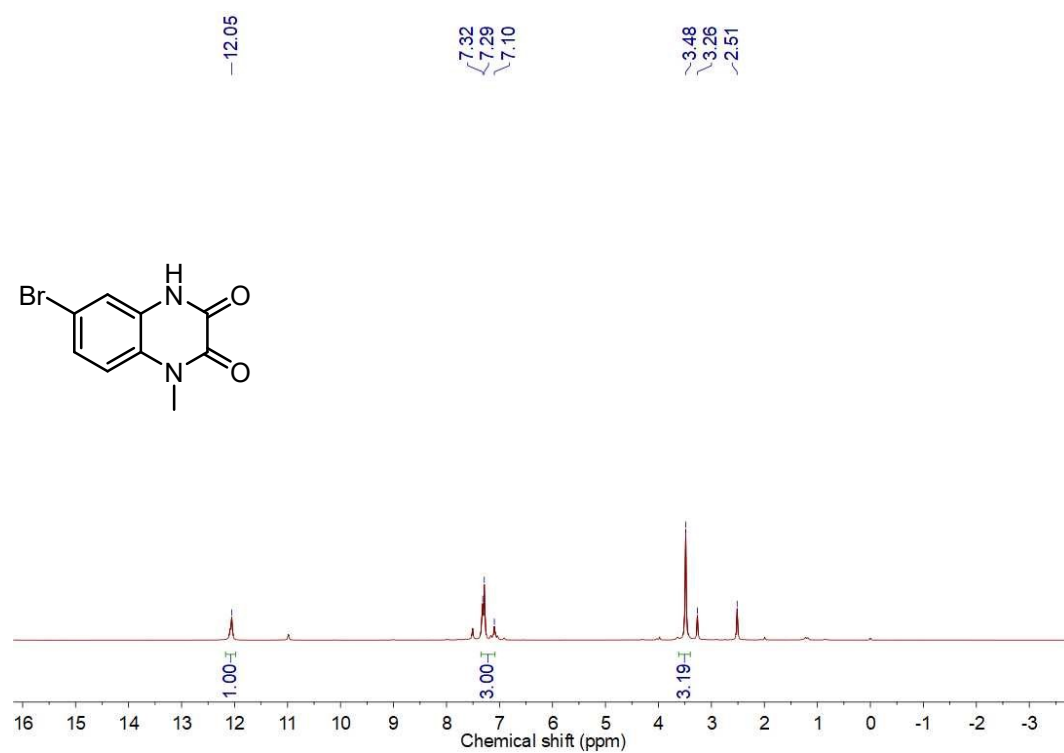
#### 4j <sup>1</sup>H NMR



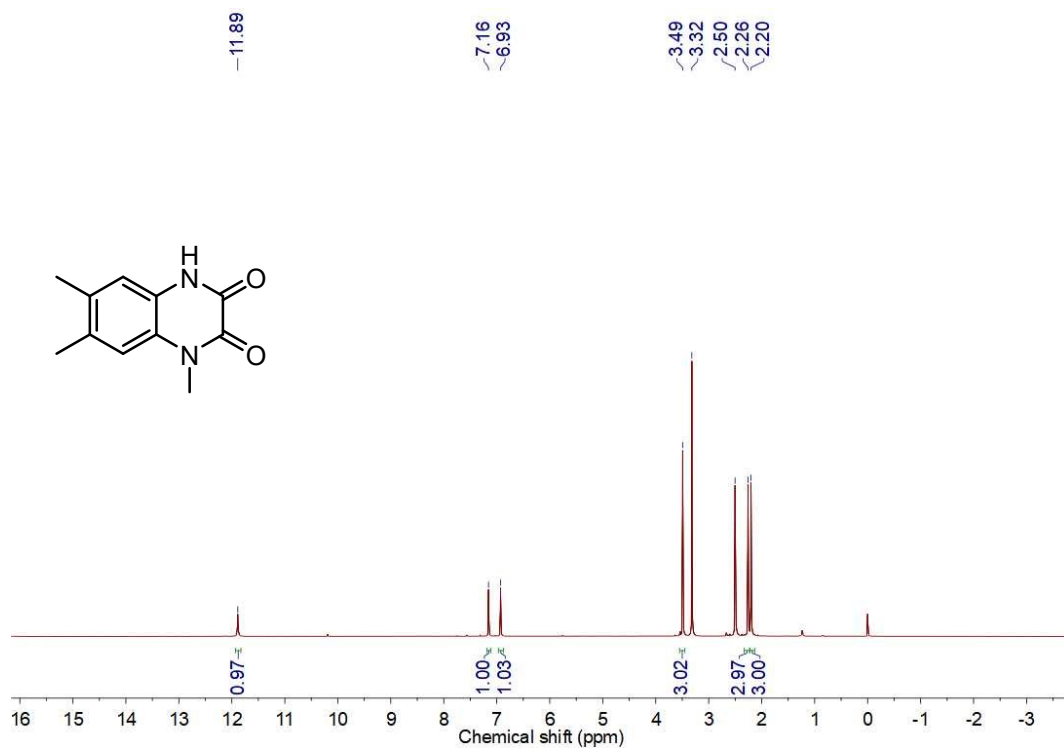
## 4k <sup>1</sup>H NMR



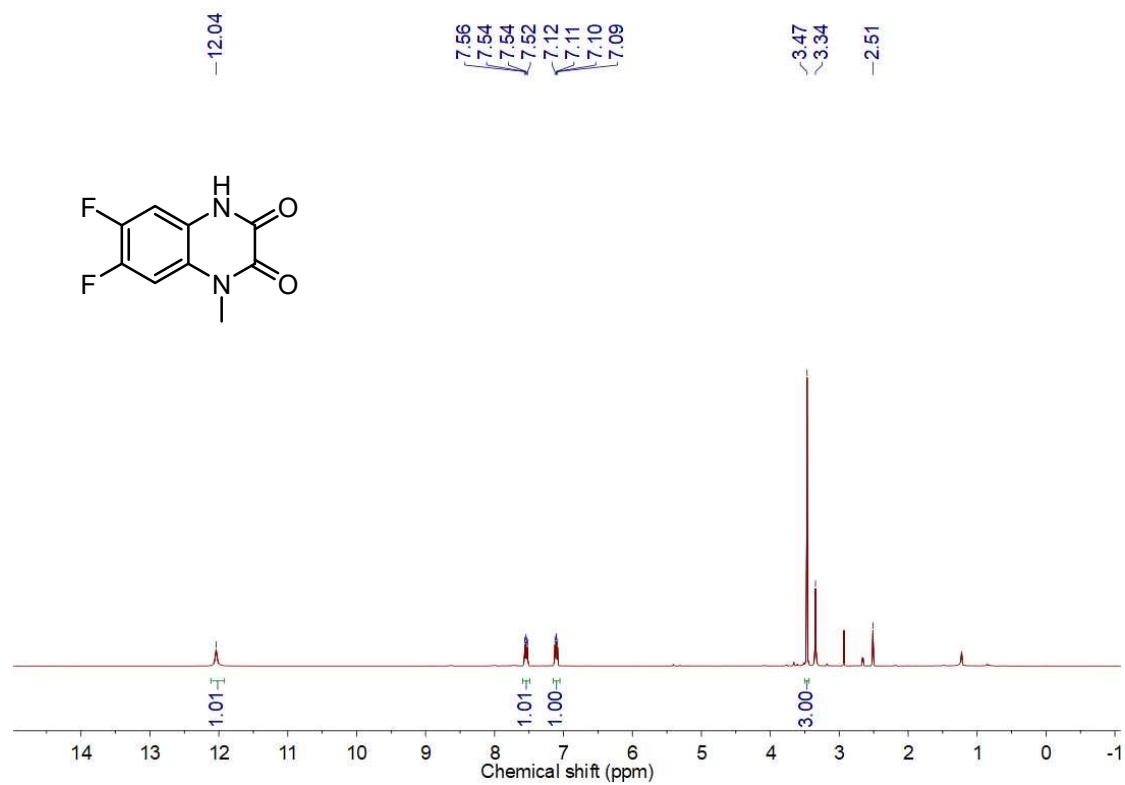
## 4l <sup>1</sup>H NMR



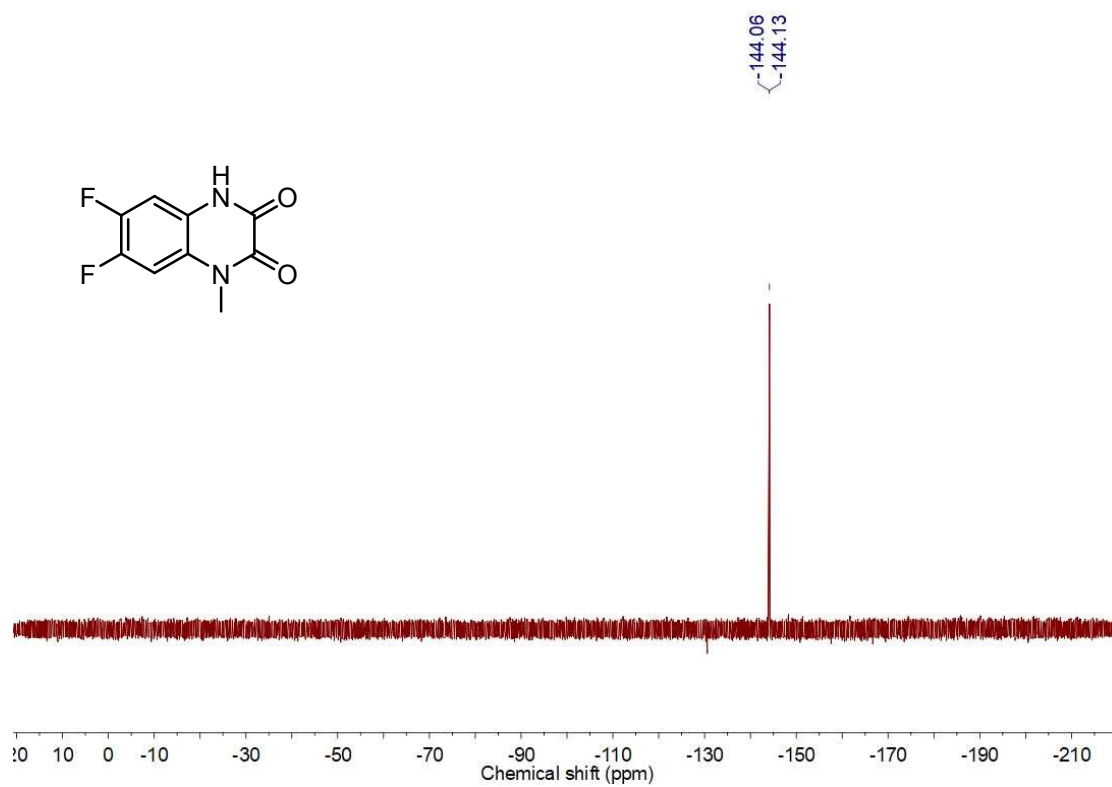
## 4m $^1\text{H}$ NMR



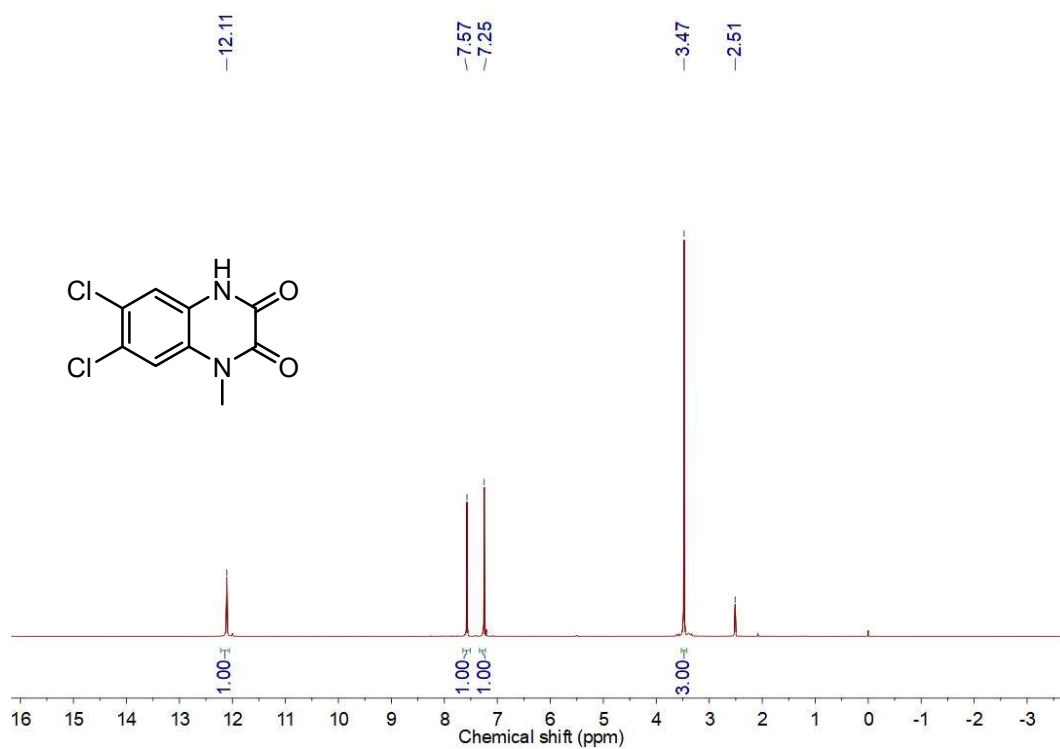
## 4n $^1\text{H}$ NMR



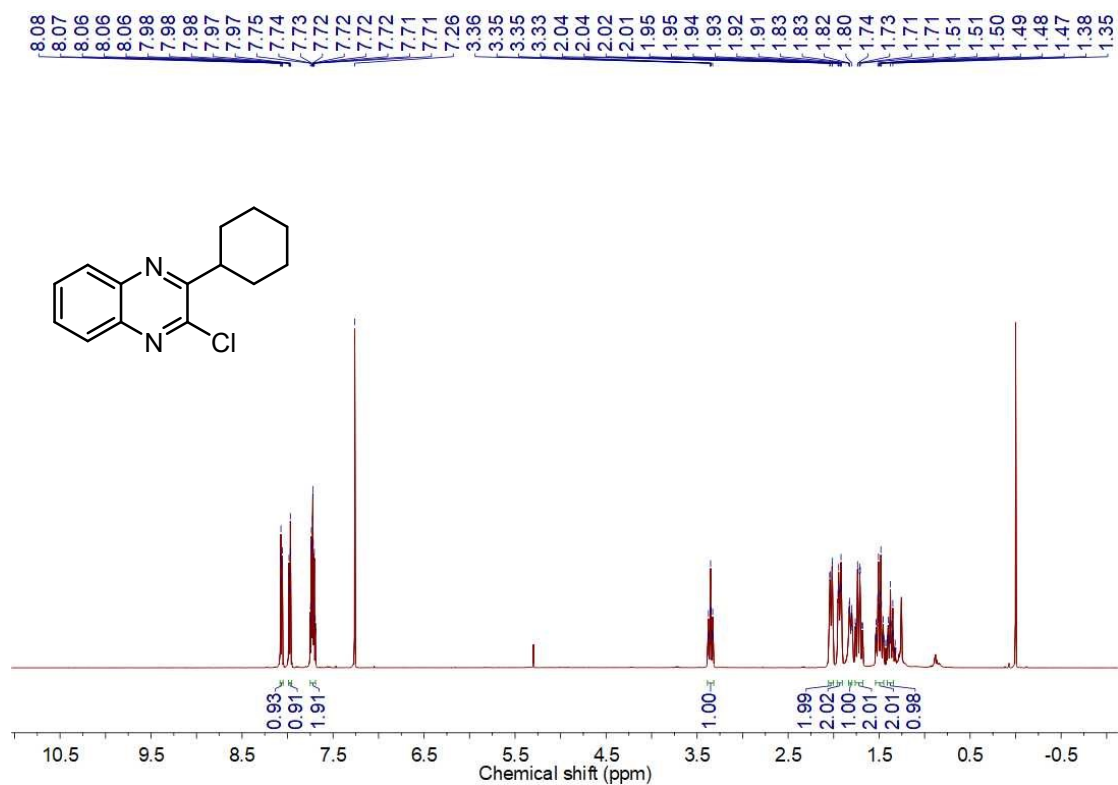
# **4n $^{19}\text{F}$ NMR**



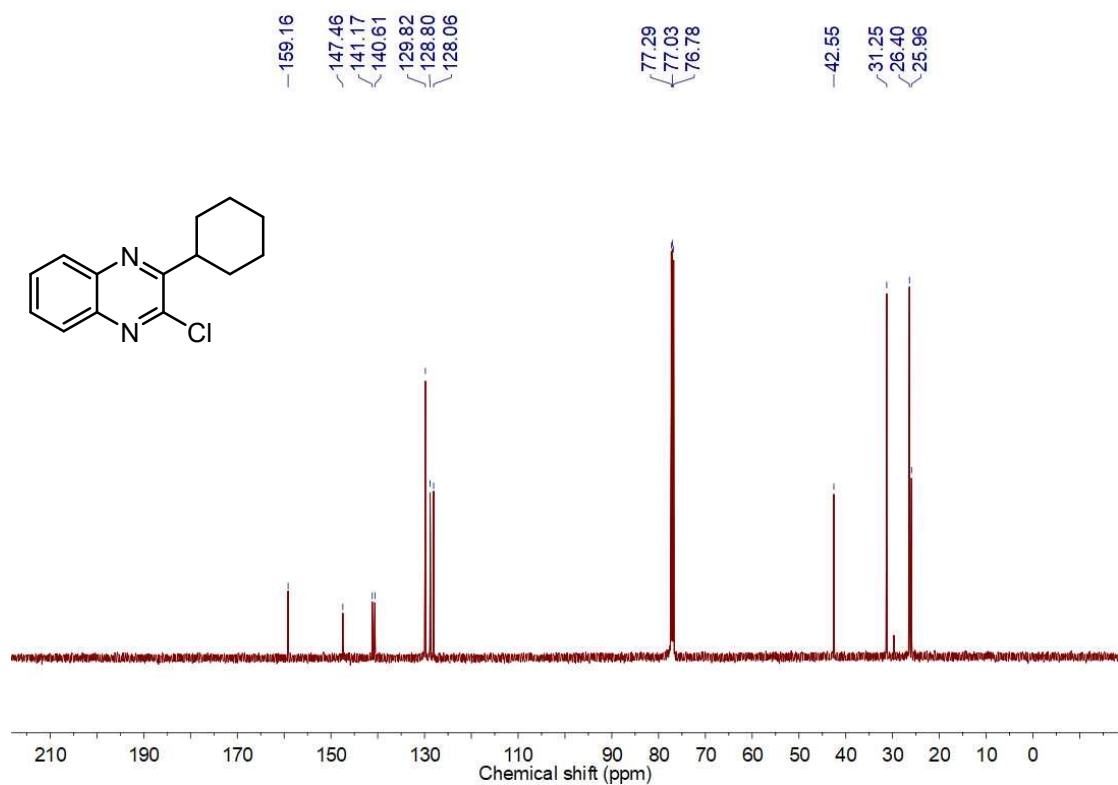
# **4o $^1\text{H}$ NMR**



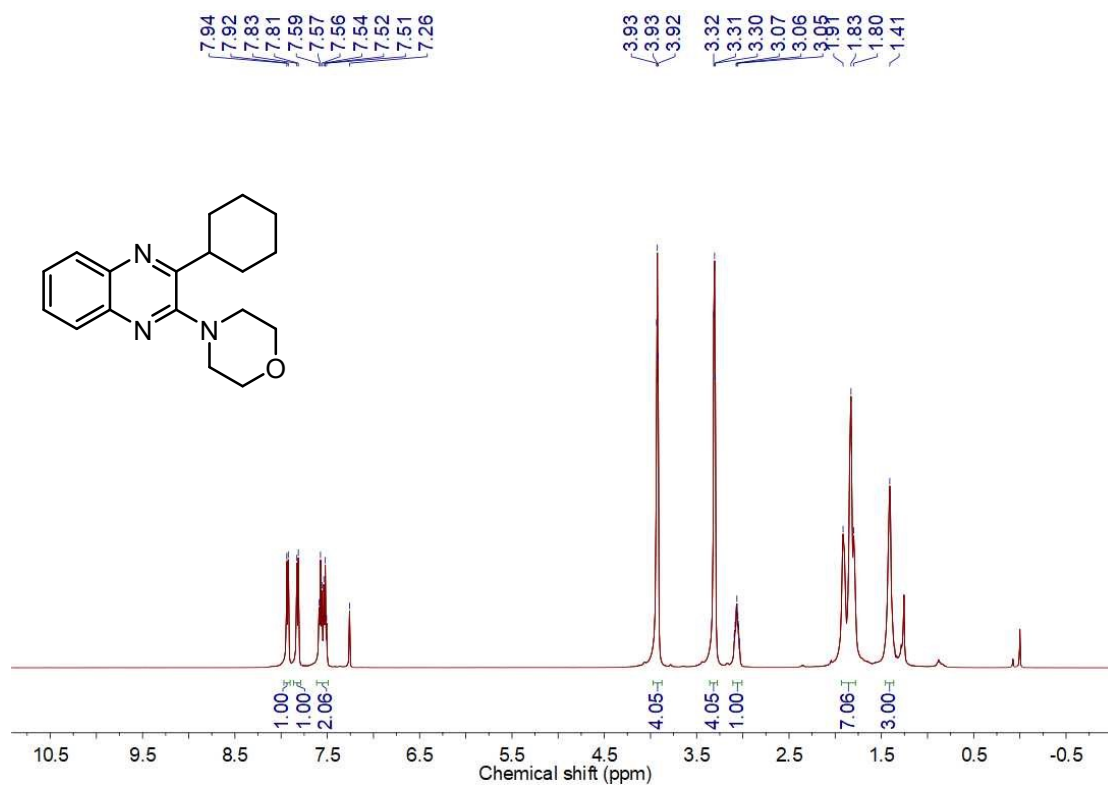
## 5 $^1\text{H}$ NMR



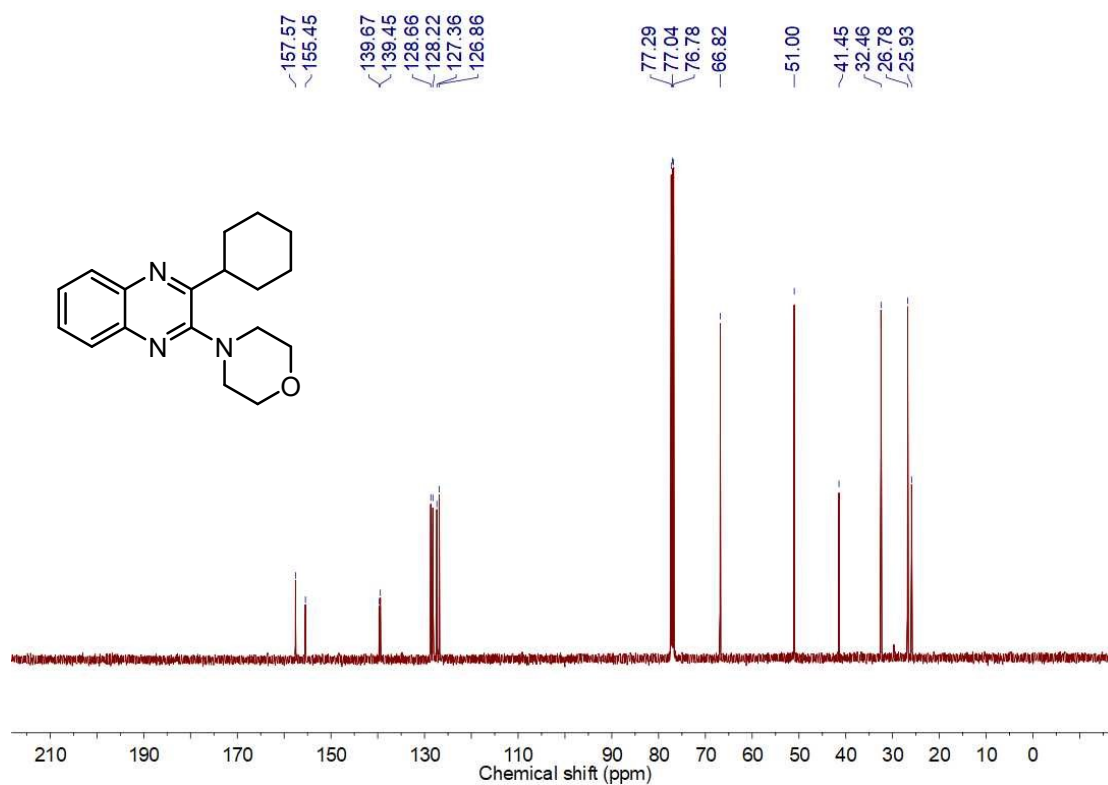
## 5 $^{13}\text{C}$ NMR



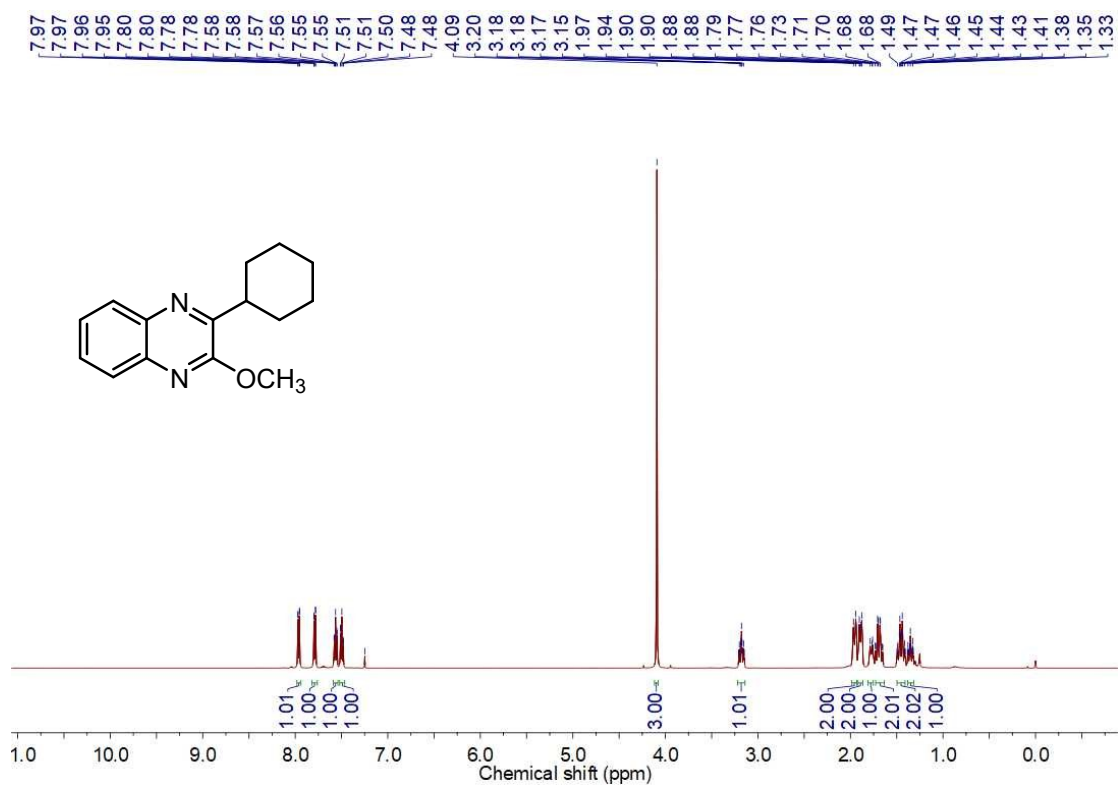
## 6 $^1\text{H}$ NMR



## 6 $^{13}\text{C}$ NMR



## 7 <sup>1</sup>H NMR



## 7 <sup>13</sup>C NMR

