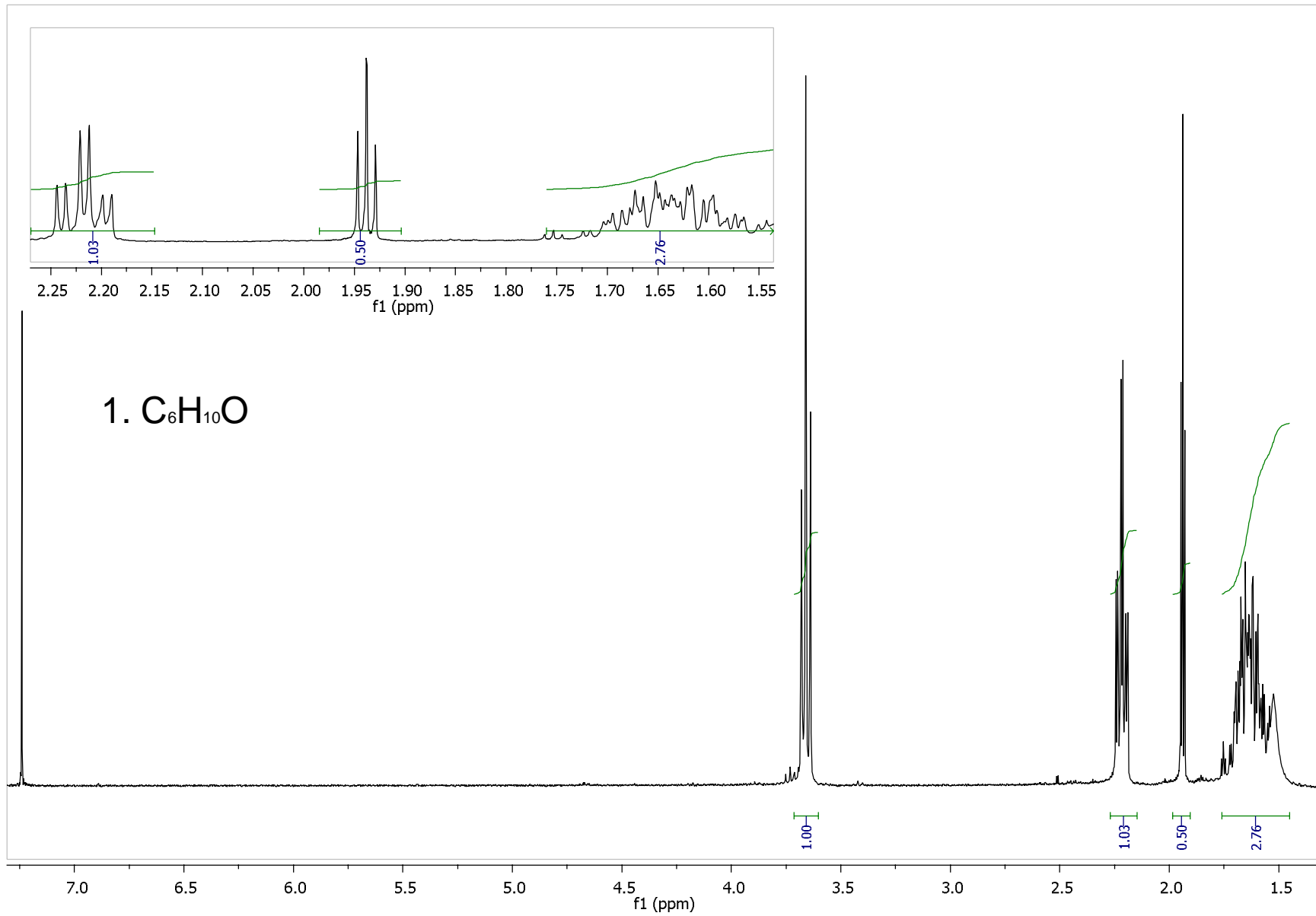


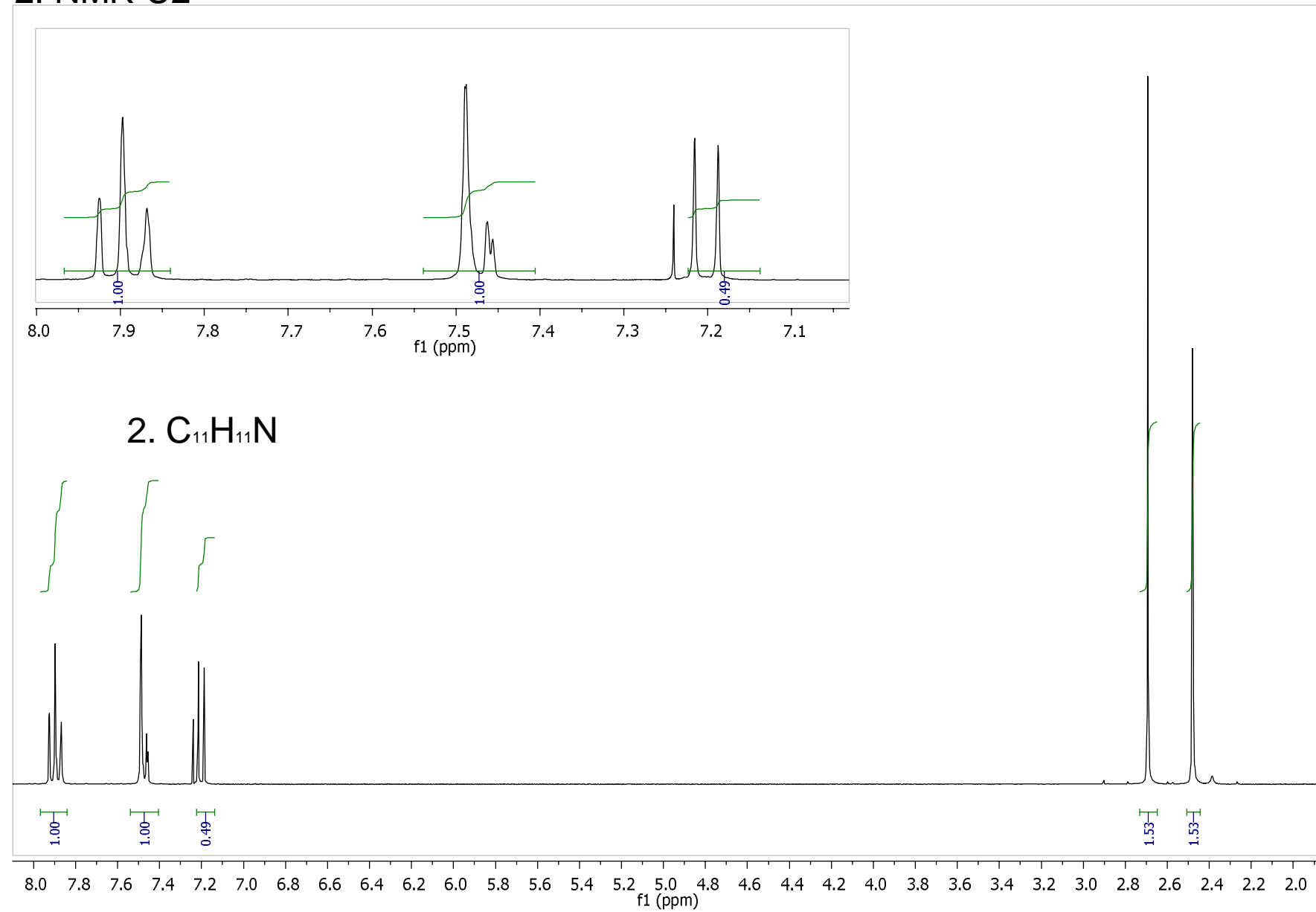
# Übungsspektren zum Seminar Organische Analytik und Spektroskopie

1. C<sub>6</sub>H<sub>10</sub>O
2. C<sub>11</sub>H<sub>11</sub>N
3. C<sub>9</sub>H<sub>9</sub>NO<sub>2</sub>
4. C<sub>12</sub>H<sub>18</sub>
5. C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub>
6. C<sub>8</sub>H<sub>9</sub>NO<sub>4</sub>
7. C<sub>10</sub>H<sub>14</sub>O
8. Terephthalaldehyd + Ethanol?
- 9.
10. C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>F
11. C<sub>6</sub>H<sub>10</sub>O (2)
12. C<sub>15</sub>H<sub>17</sub>N<sub>2</sub>O
13. C<sub>9</sub>H<sub>10</sub>O (1)
14. C<sub>9</sub>H<sub>10</sub>O (2)
15. Triethylammoniumchlorid
16. C<sub>10</sub>H<sub>14</sub>O
17. C<sub>11</sub>H<sub>14</sub>O<sub>3</sub> H-, C-NMR, IR
18. Stevens-Umlagerung? (H- und C-NMR)

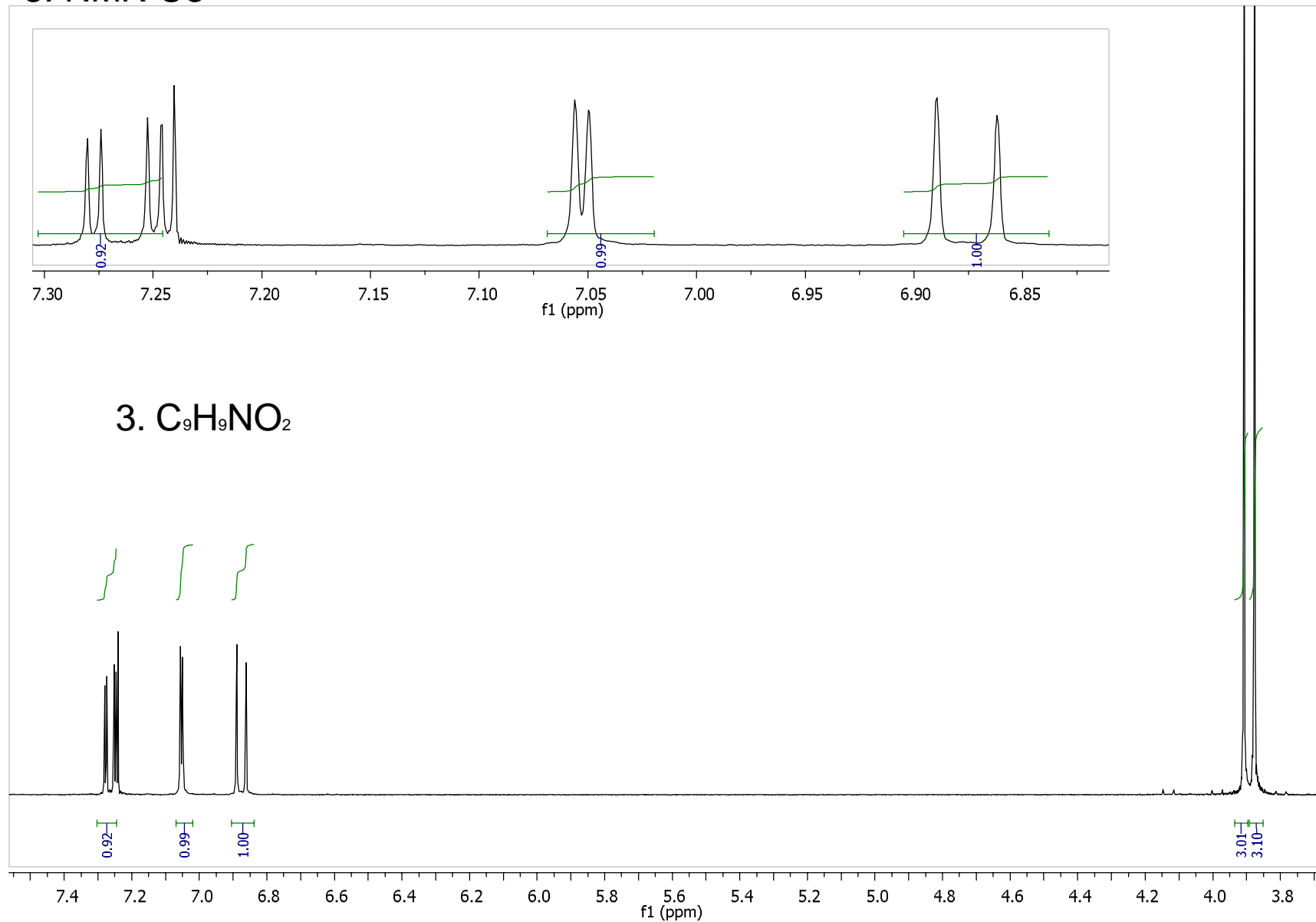
# 1: NMR Ü1



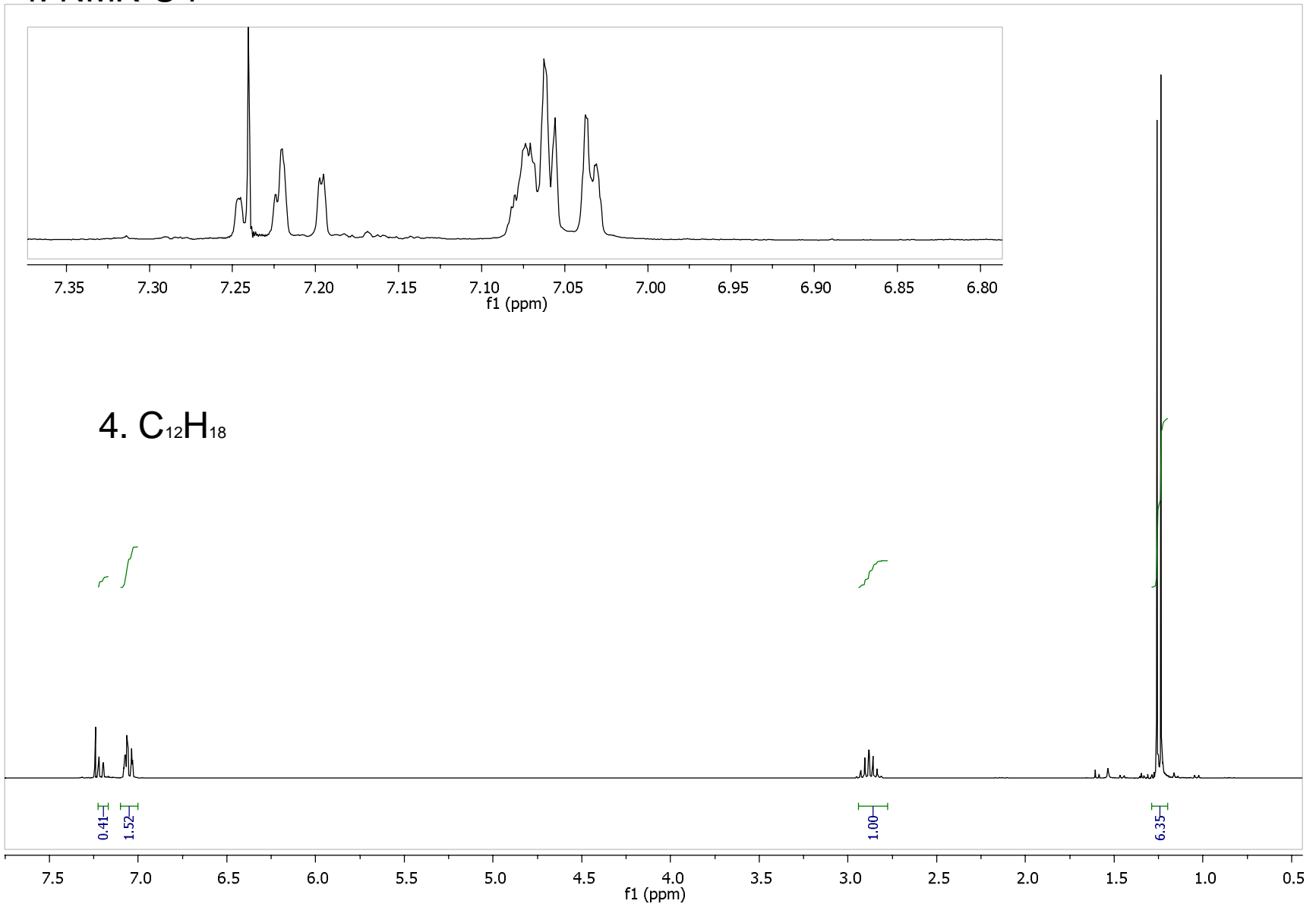
## 2. NMR Ü2



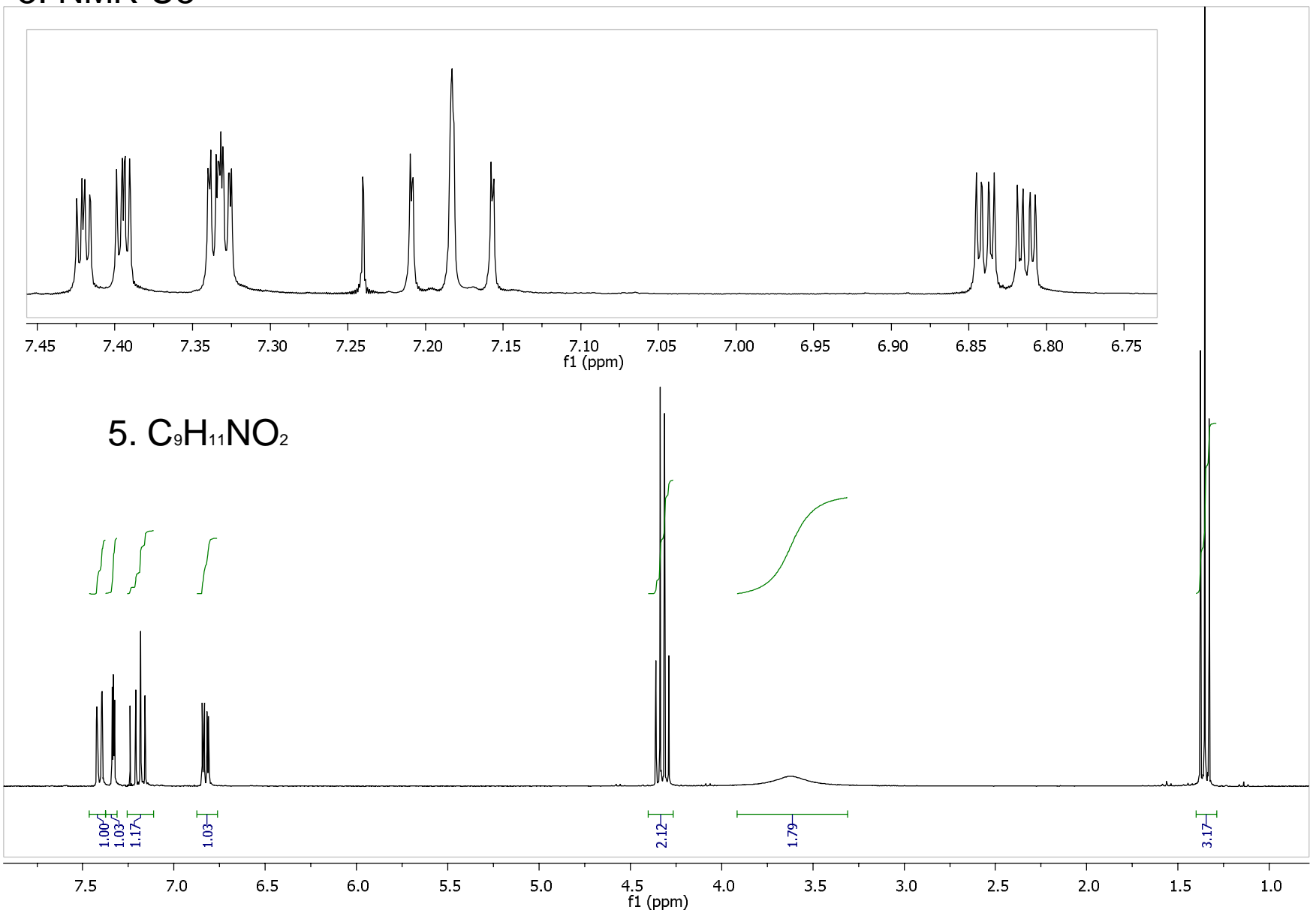
### 3. NMR Ü3



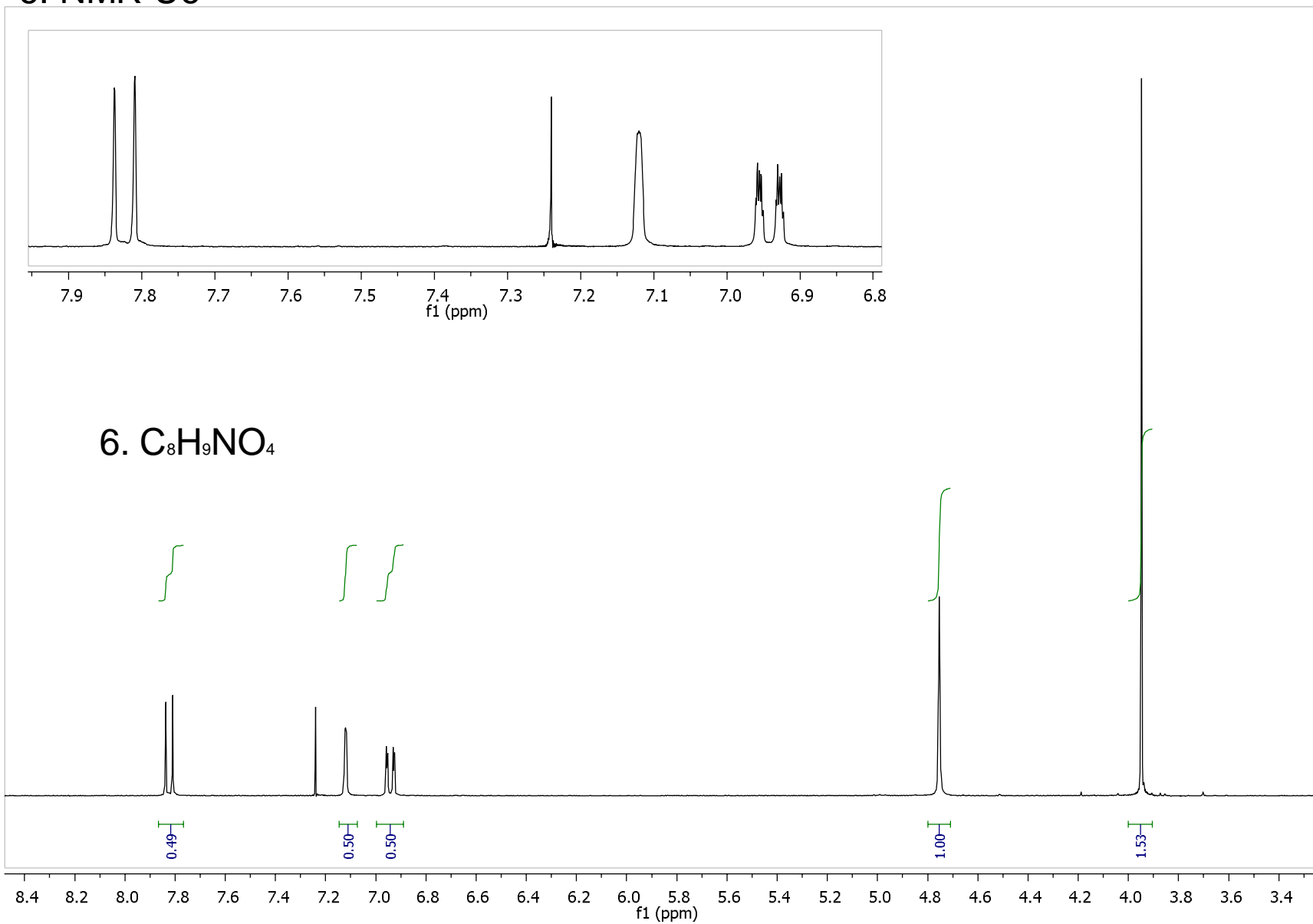
# 4. NMR Ü4



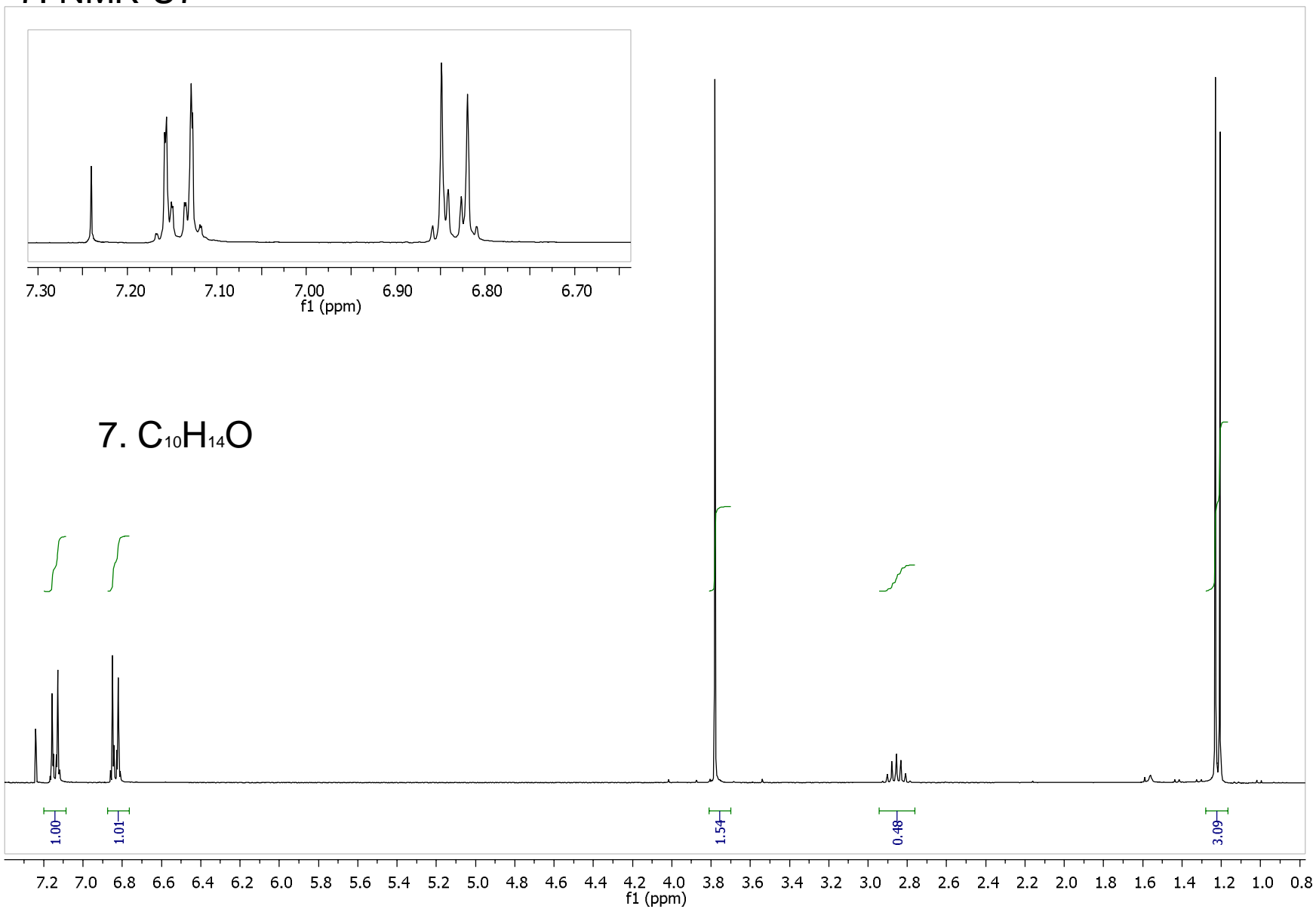
# 5. NMR Ü5



# 6. NMR Ü6

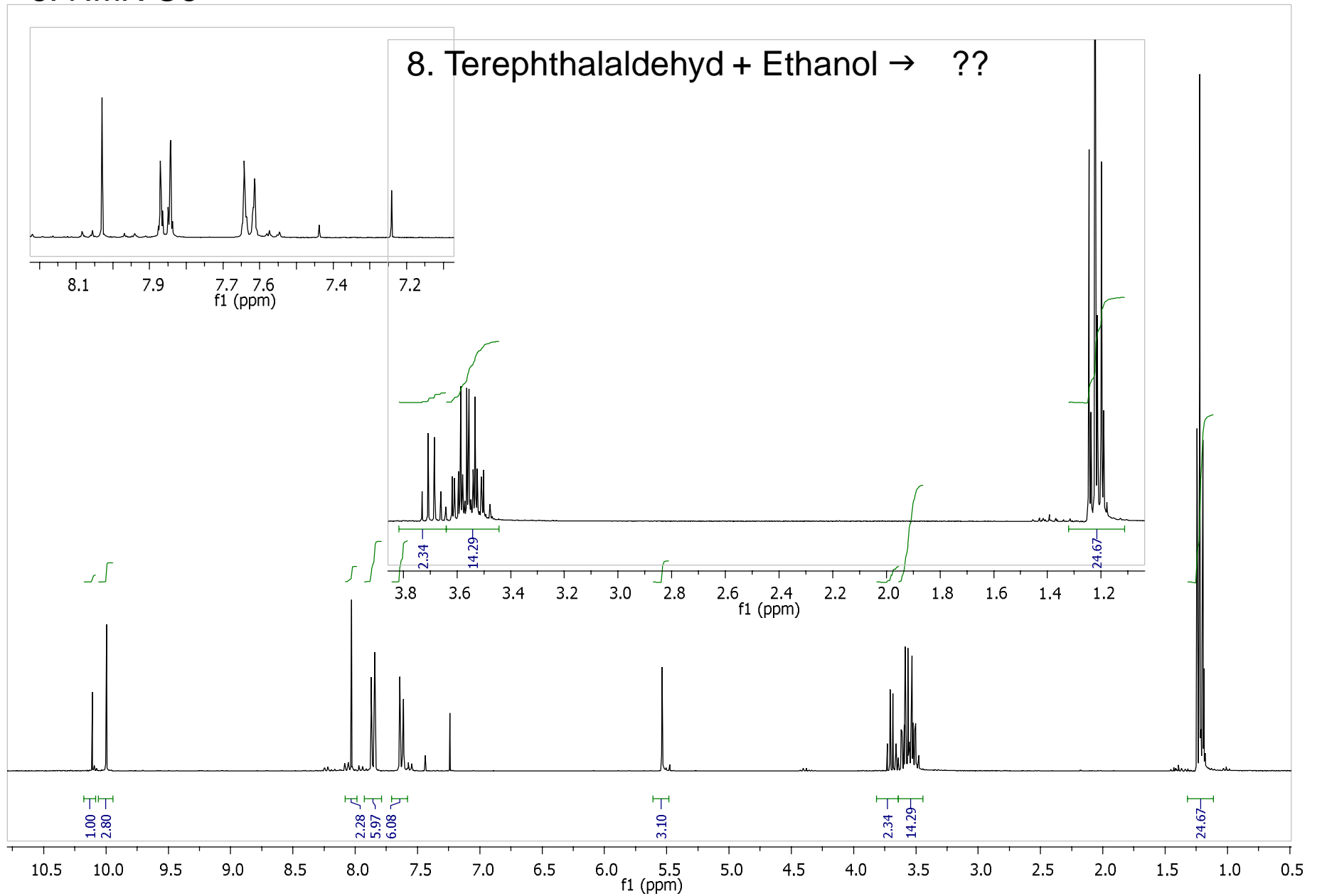


# 7. NMR Ü7



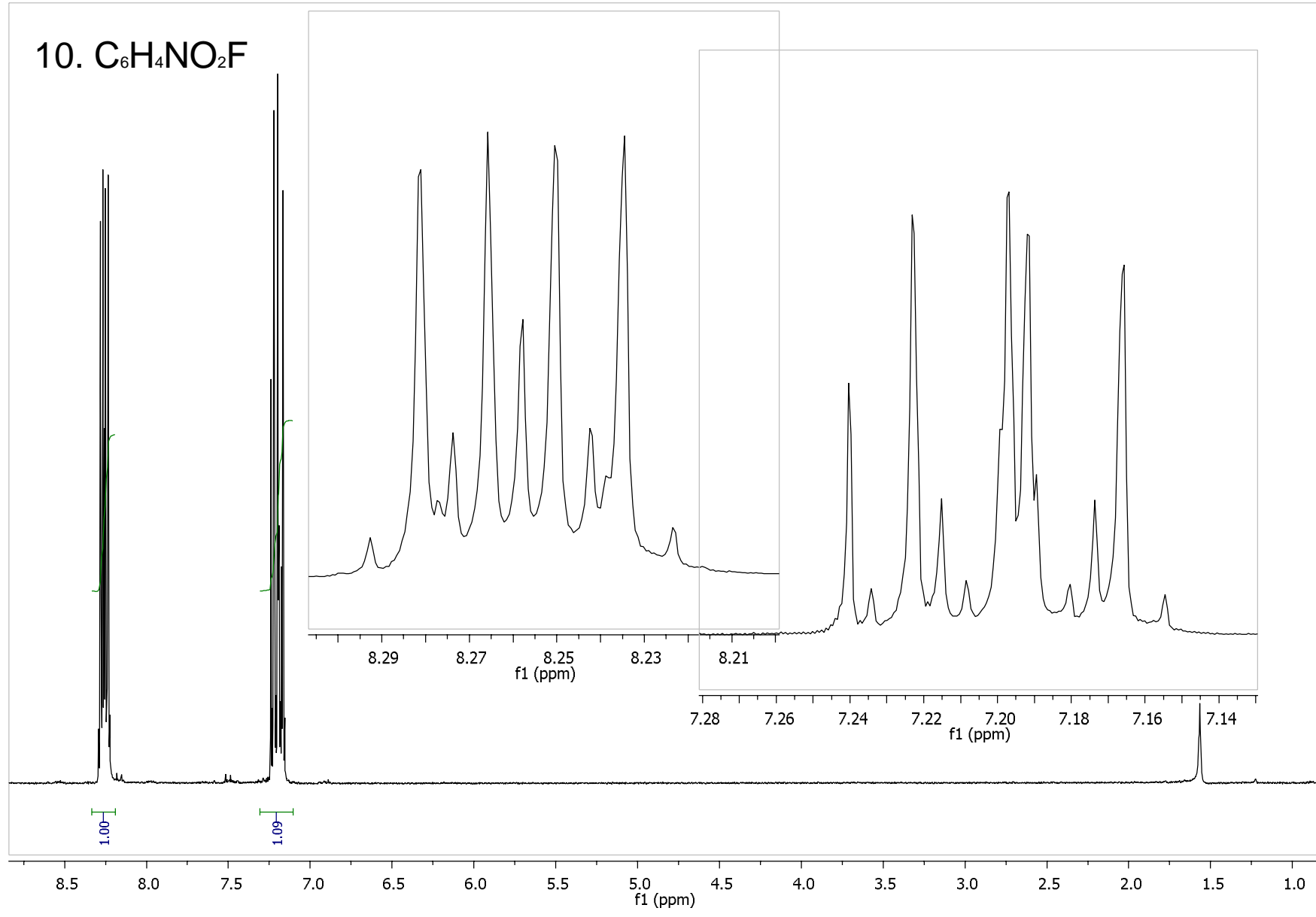


# 8. NMR Ü8

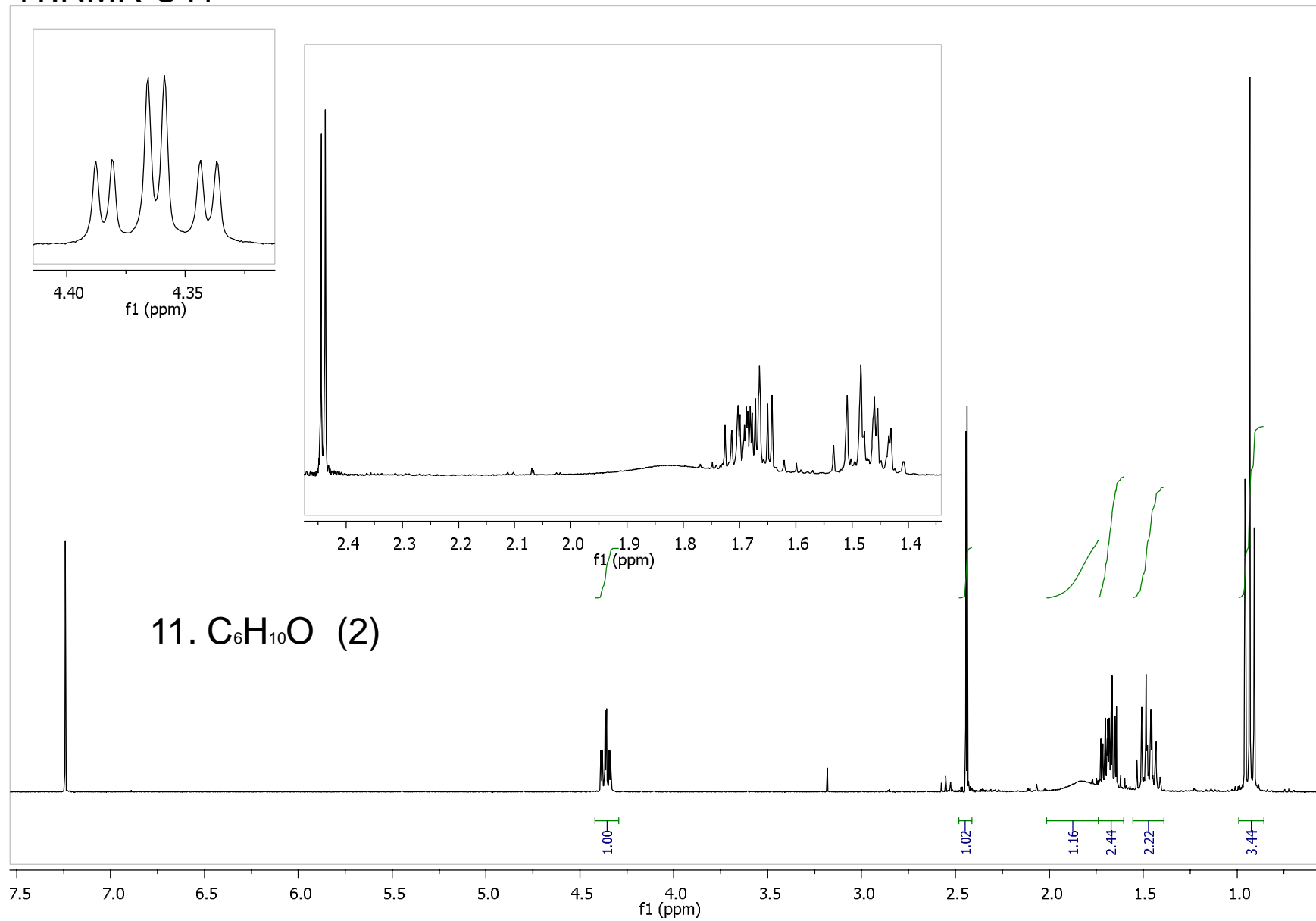


10 NMR Ü10

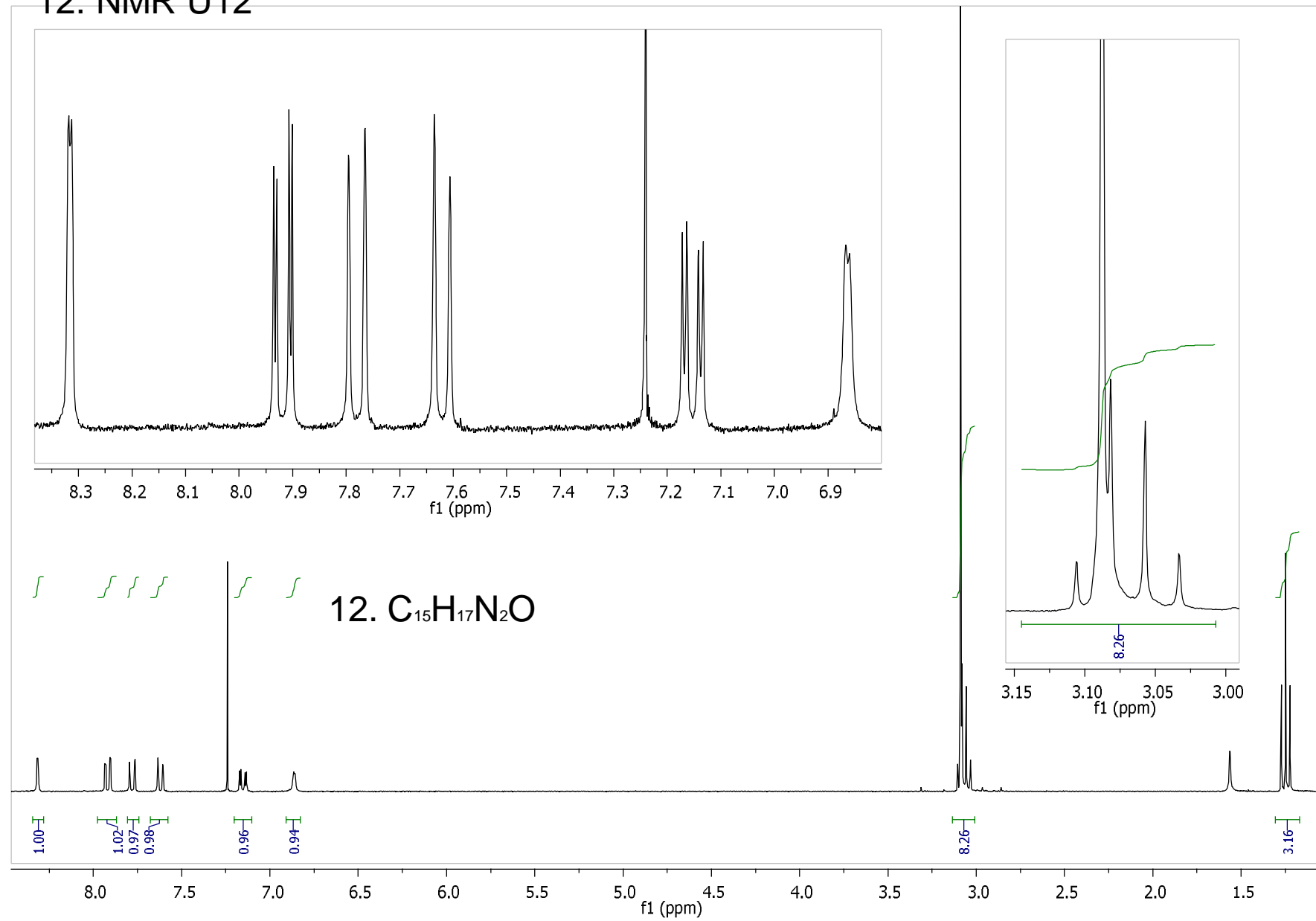
10. C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>F



# 11.NMR Ü11

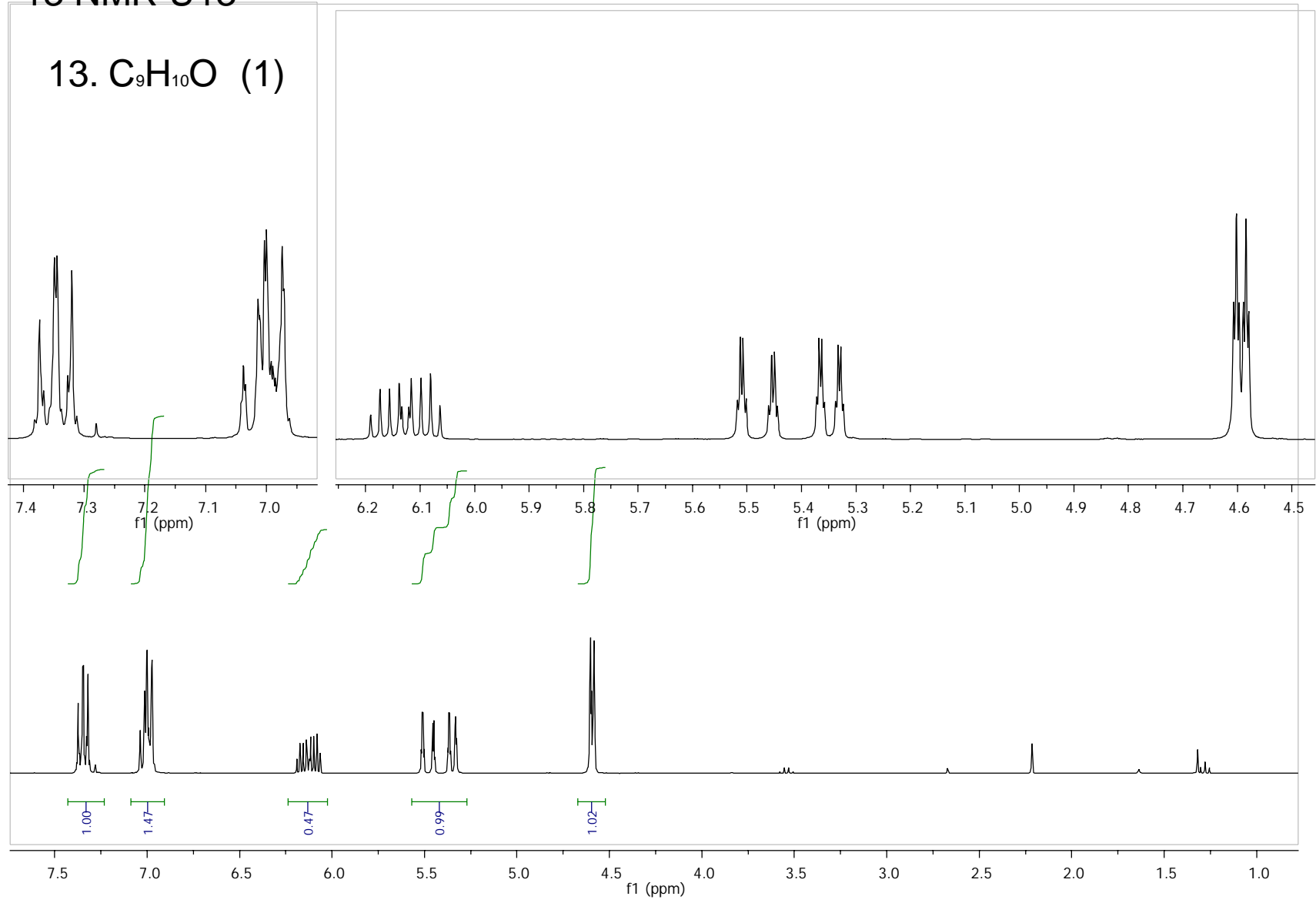


# 12. NMR Ü12



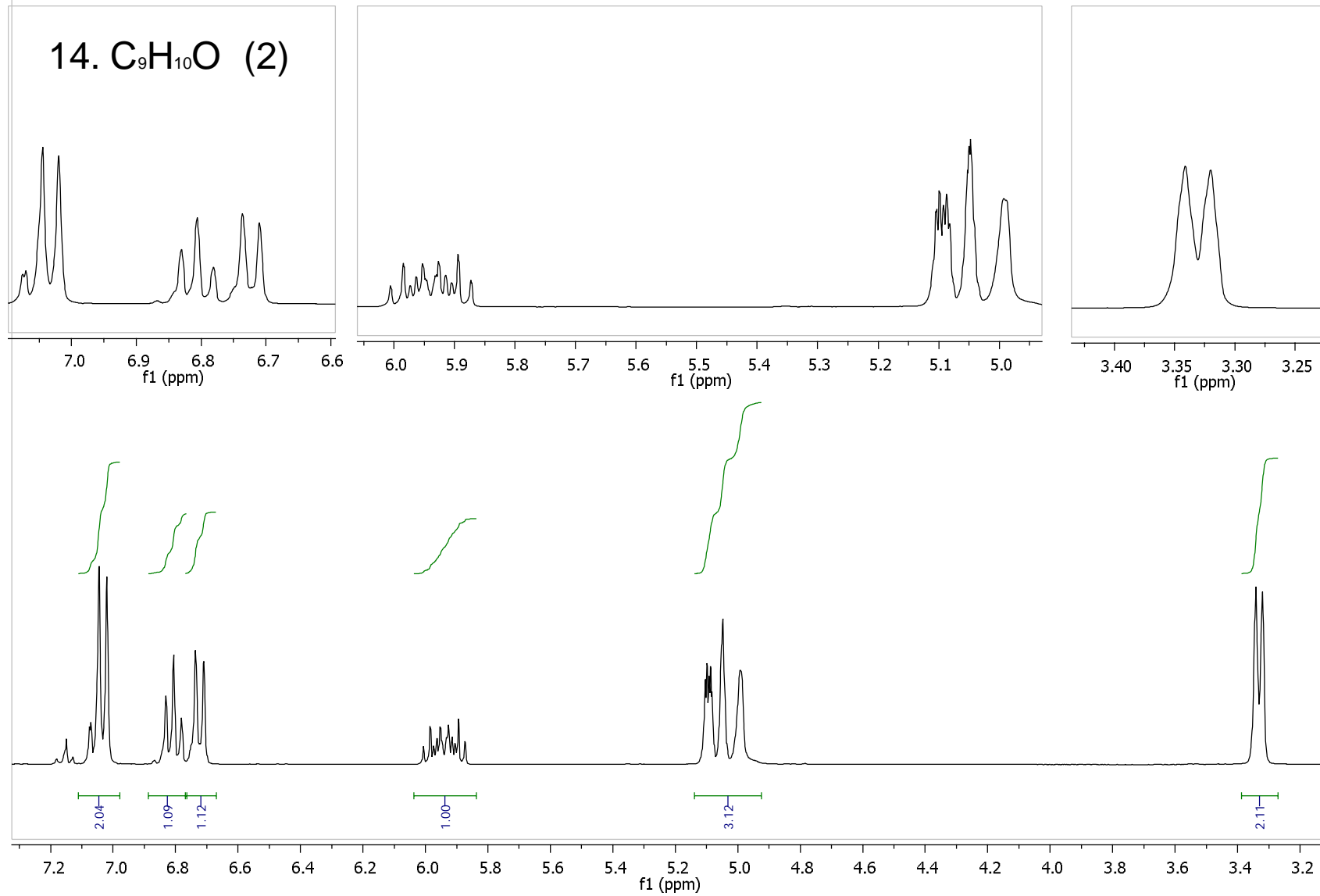
# 13 NMR Ü13

13. C<sub>9</sub>H<sub>10</sub>O (1)

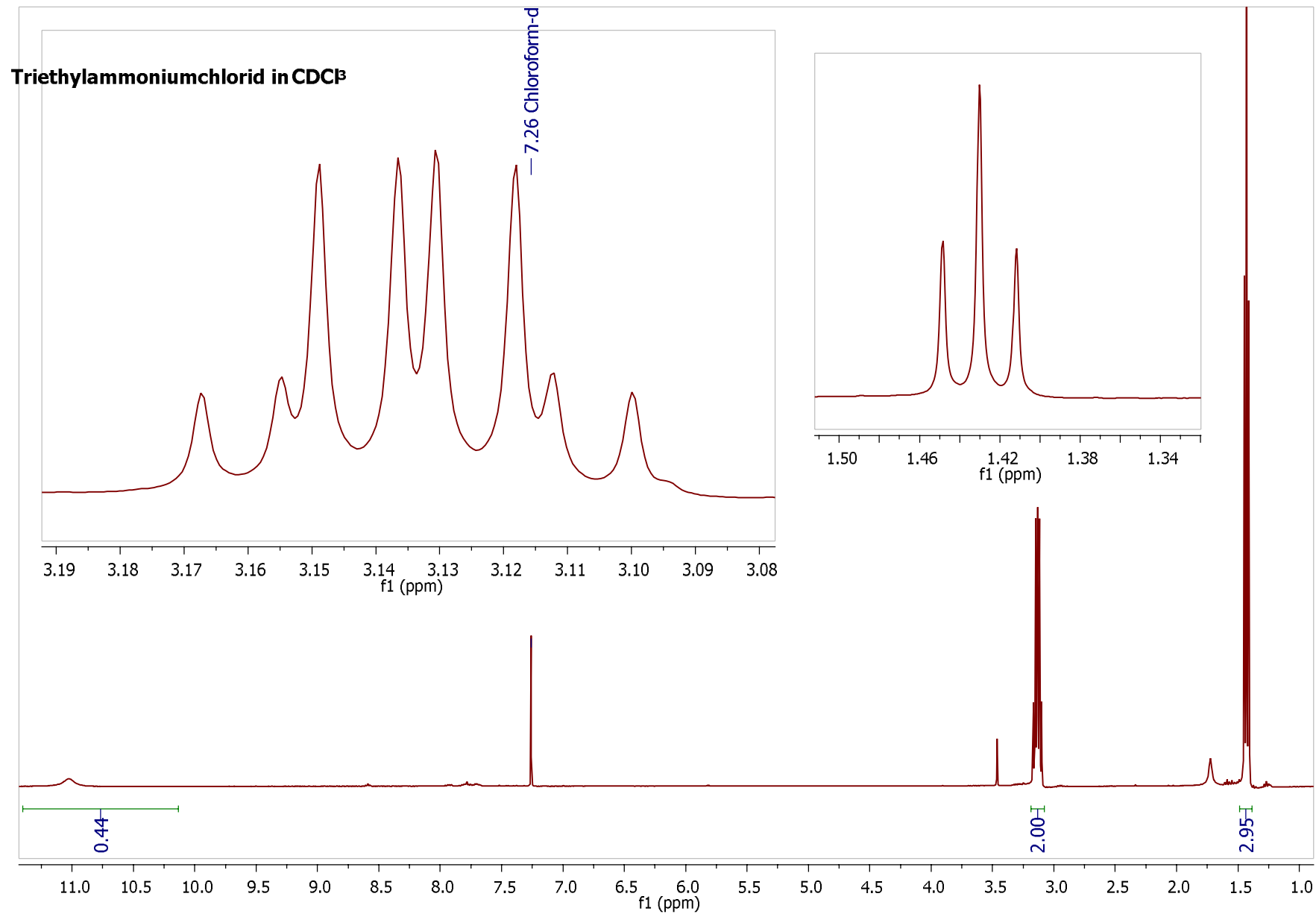


# NMR Ü14

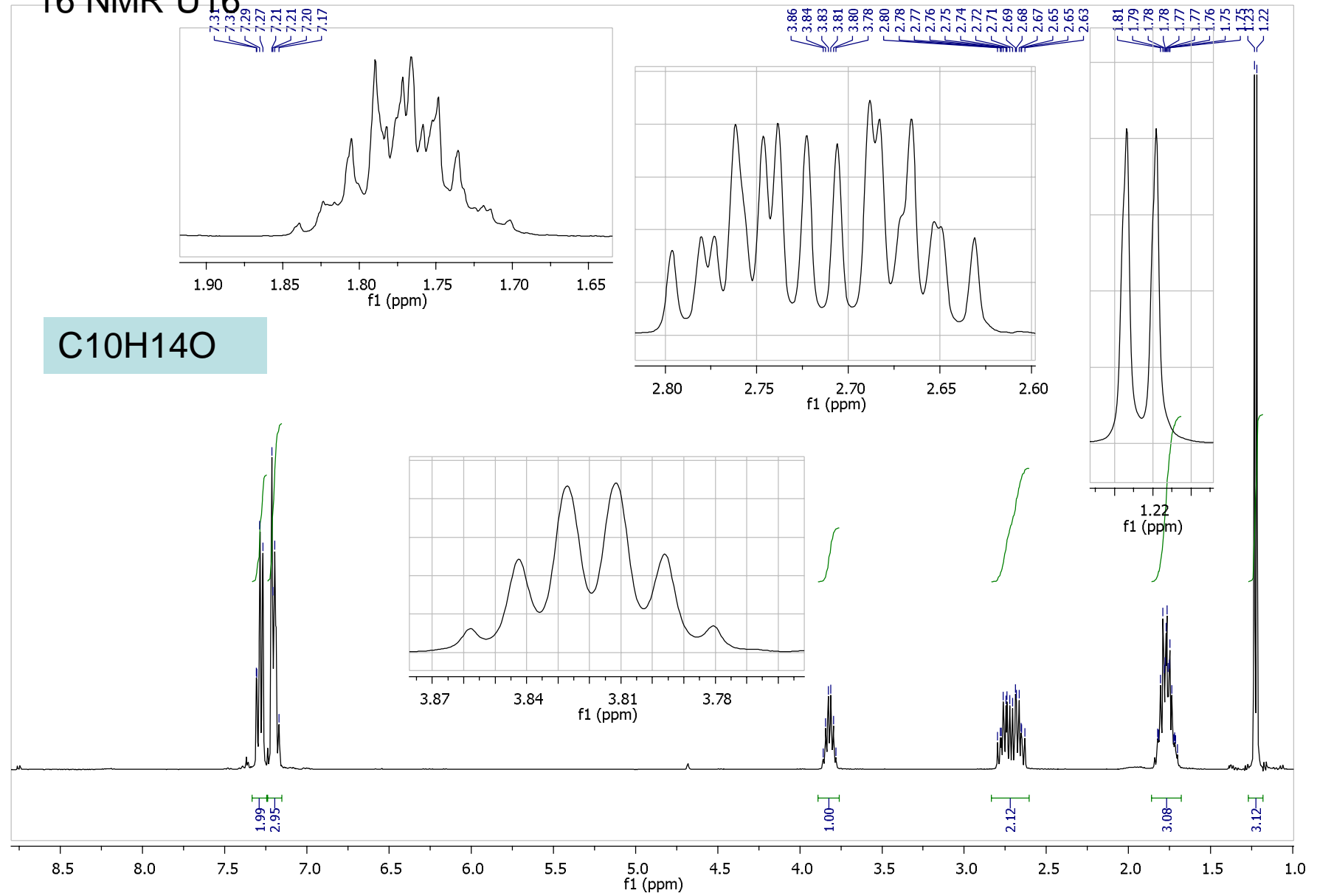
14. C<sub>9</sub>H<sub>10</sub>O (2)



# 15. NMR Ü15



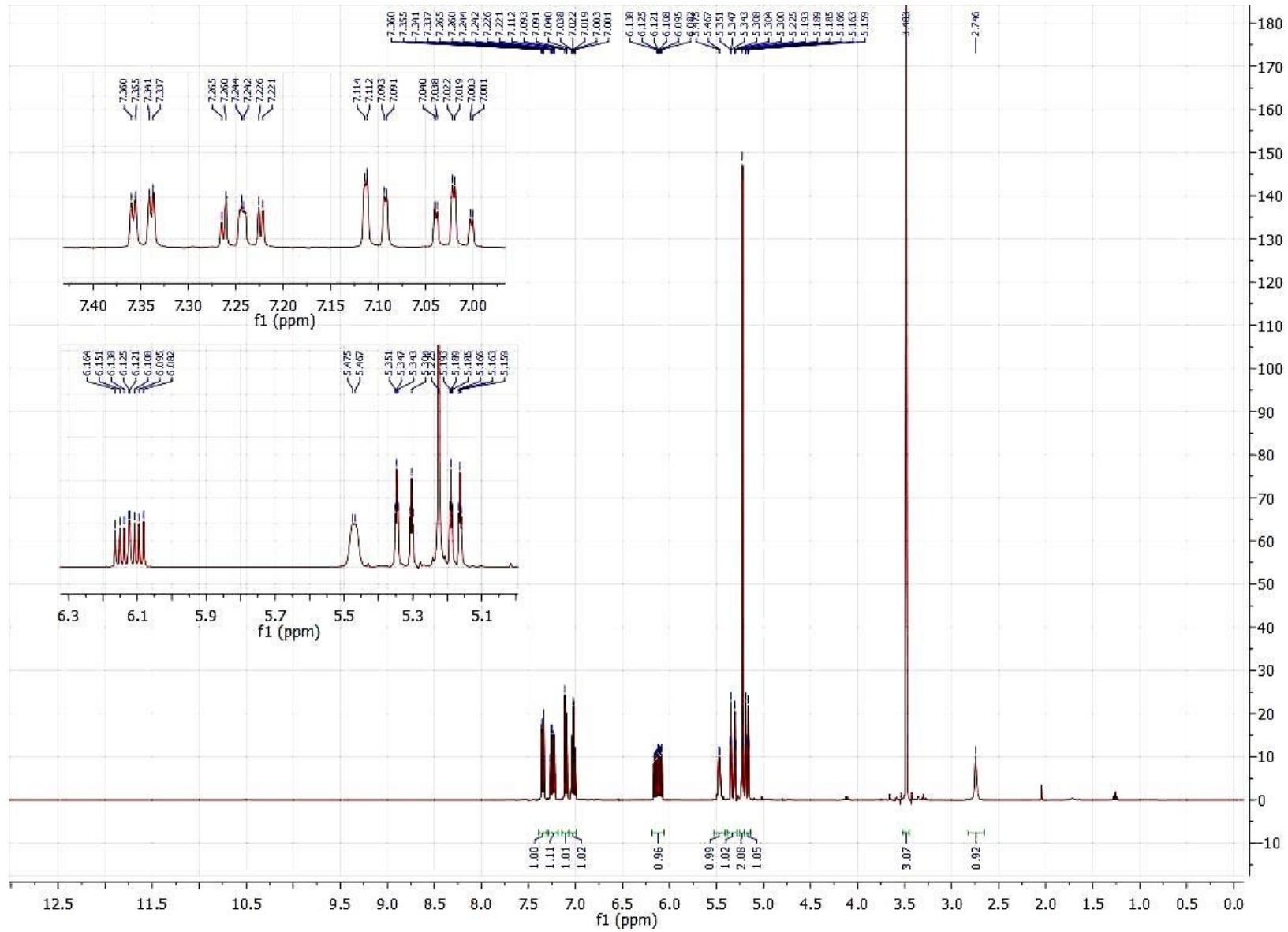
# 16 NMR Ü16



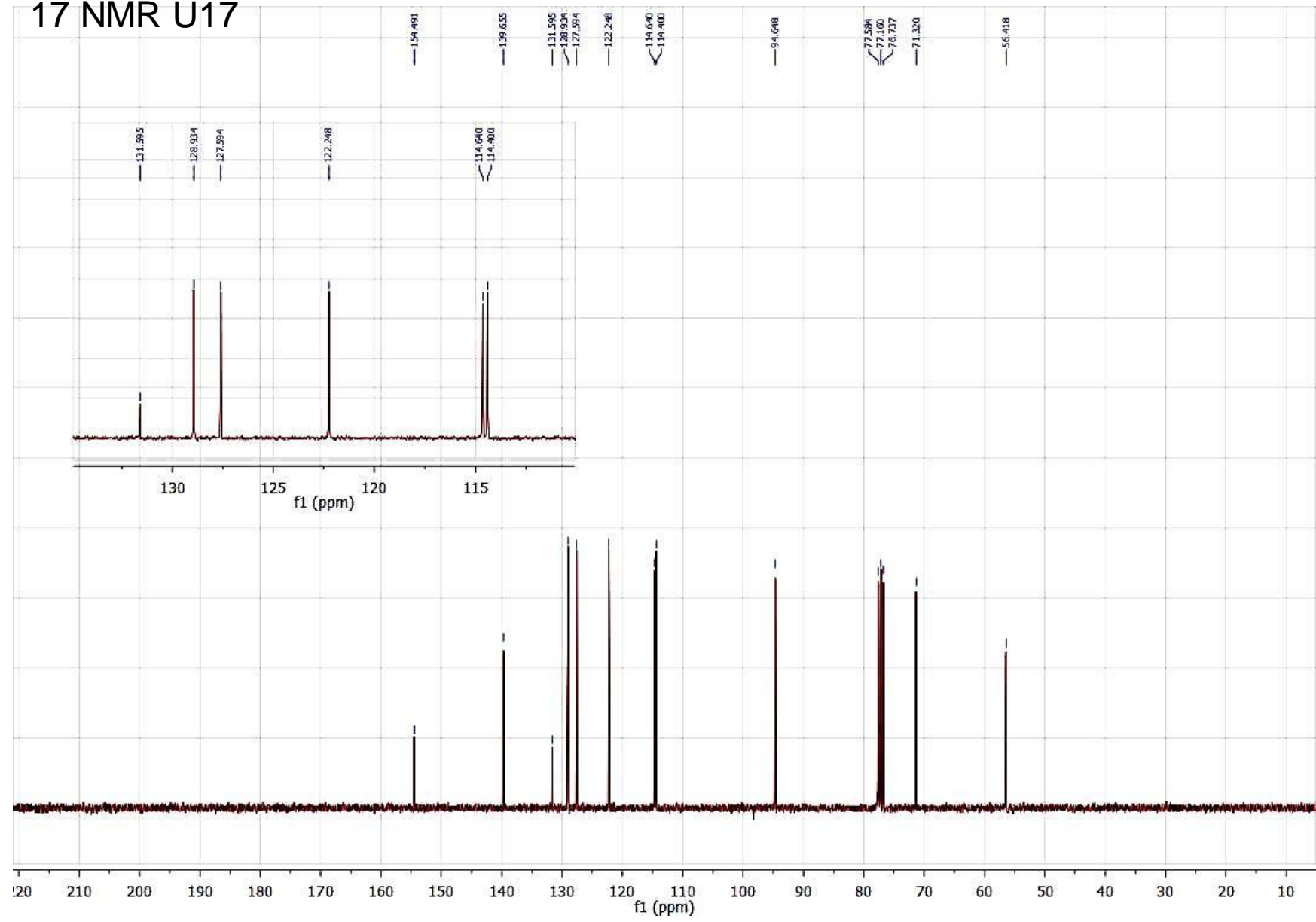


# 17 NMR Ü17

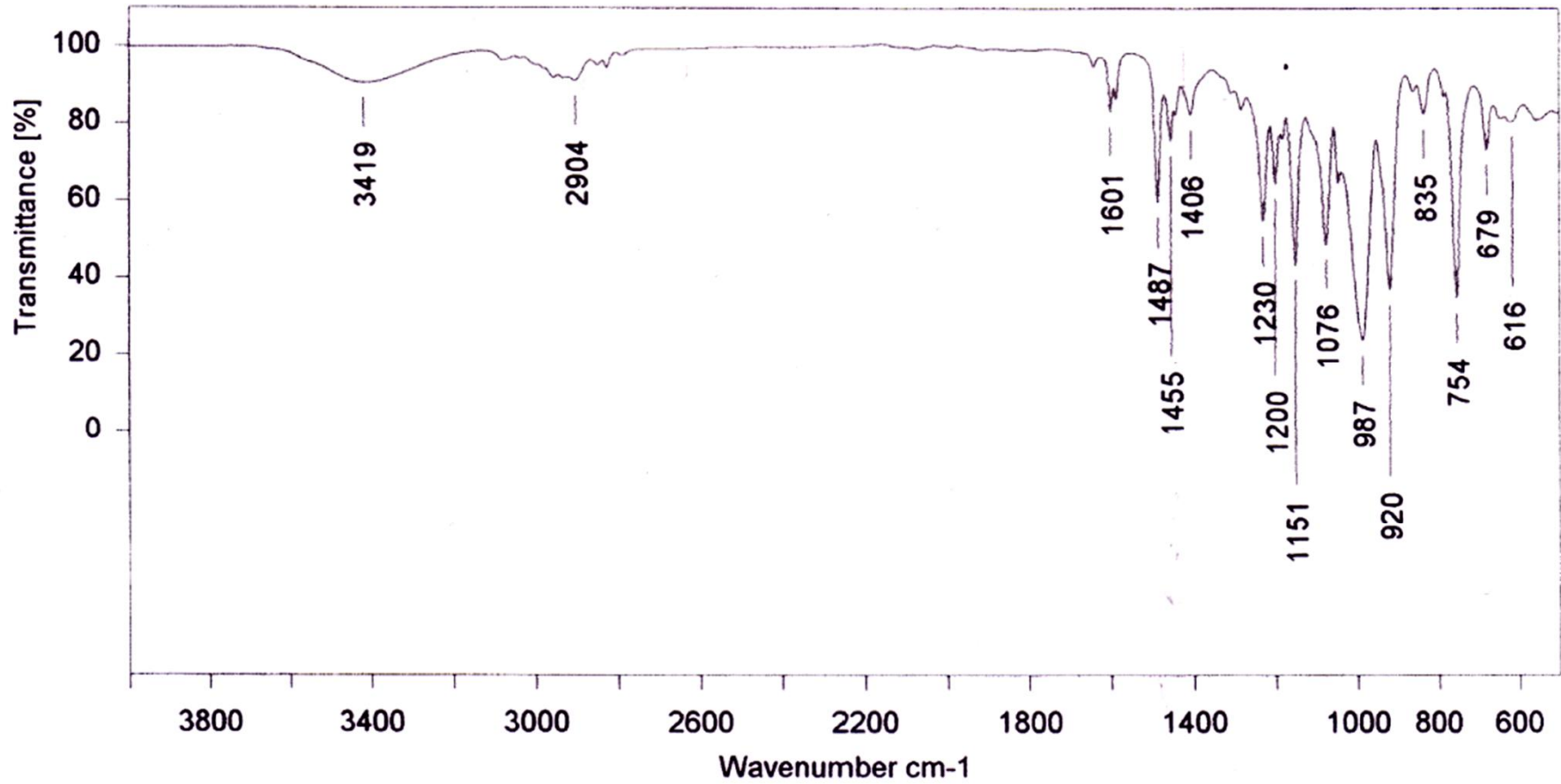
<sup>1</sup>H-NMR



# 17 NMR Ü17



# 17 NMR Ü17



Summenformel:  
 $C_{11}H_{14}O_3$