

Ravynic acid, an antibiotic polyeneyne tetramic acid from *Penicillium* sp. elucidated through synthesis†

J. D. Myrtle,^a A. M. Beekman^{a,b} and R. A. Barrow^{a,c,*}

^{a.} *Research School of Chemistry, Australian National University, Canberra, ACT 2601, Australia.*

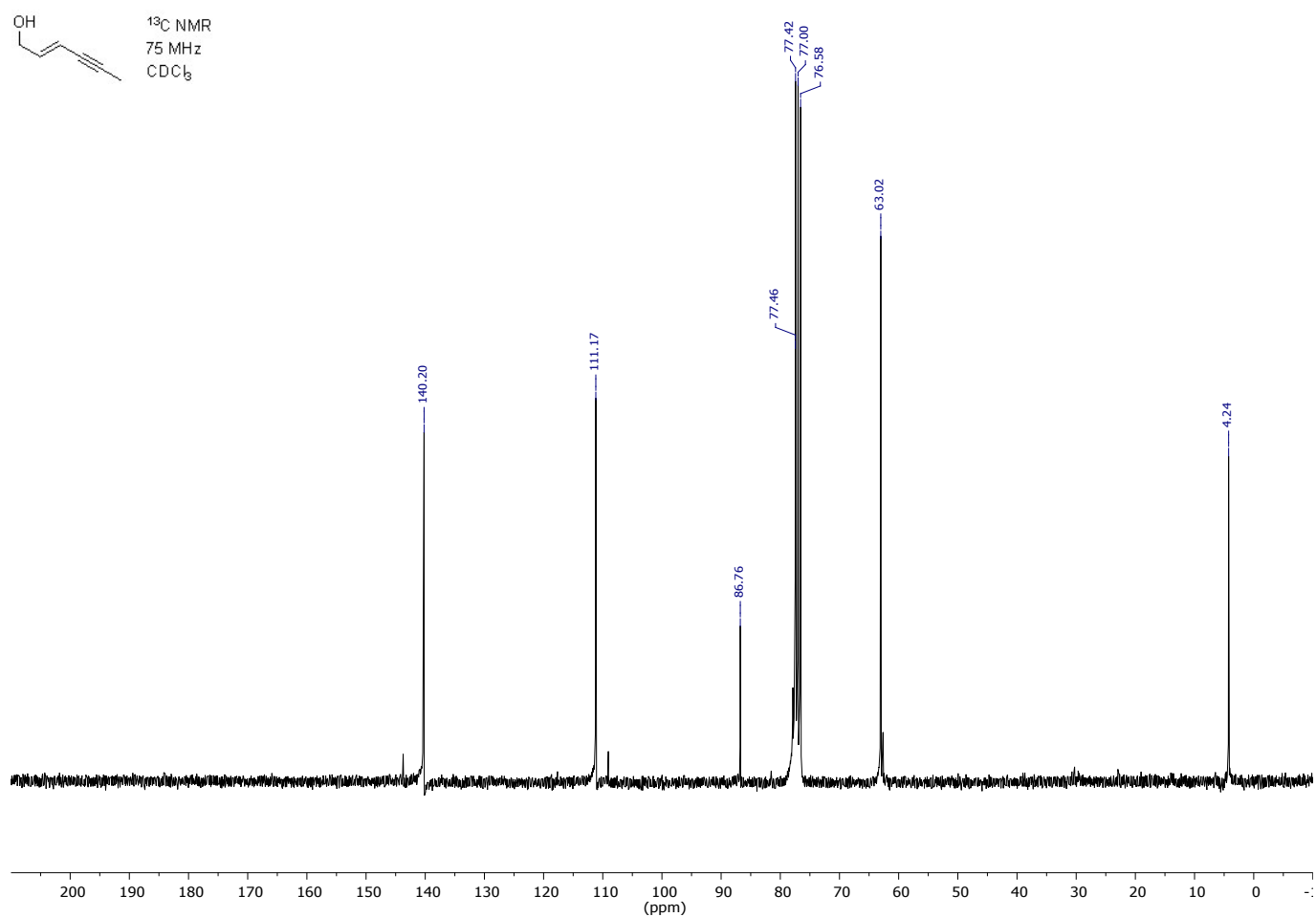
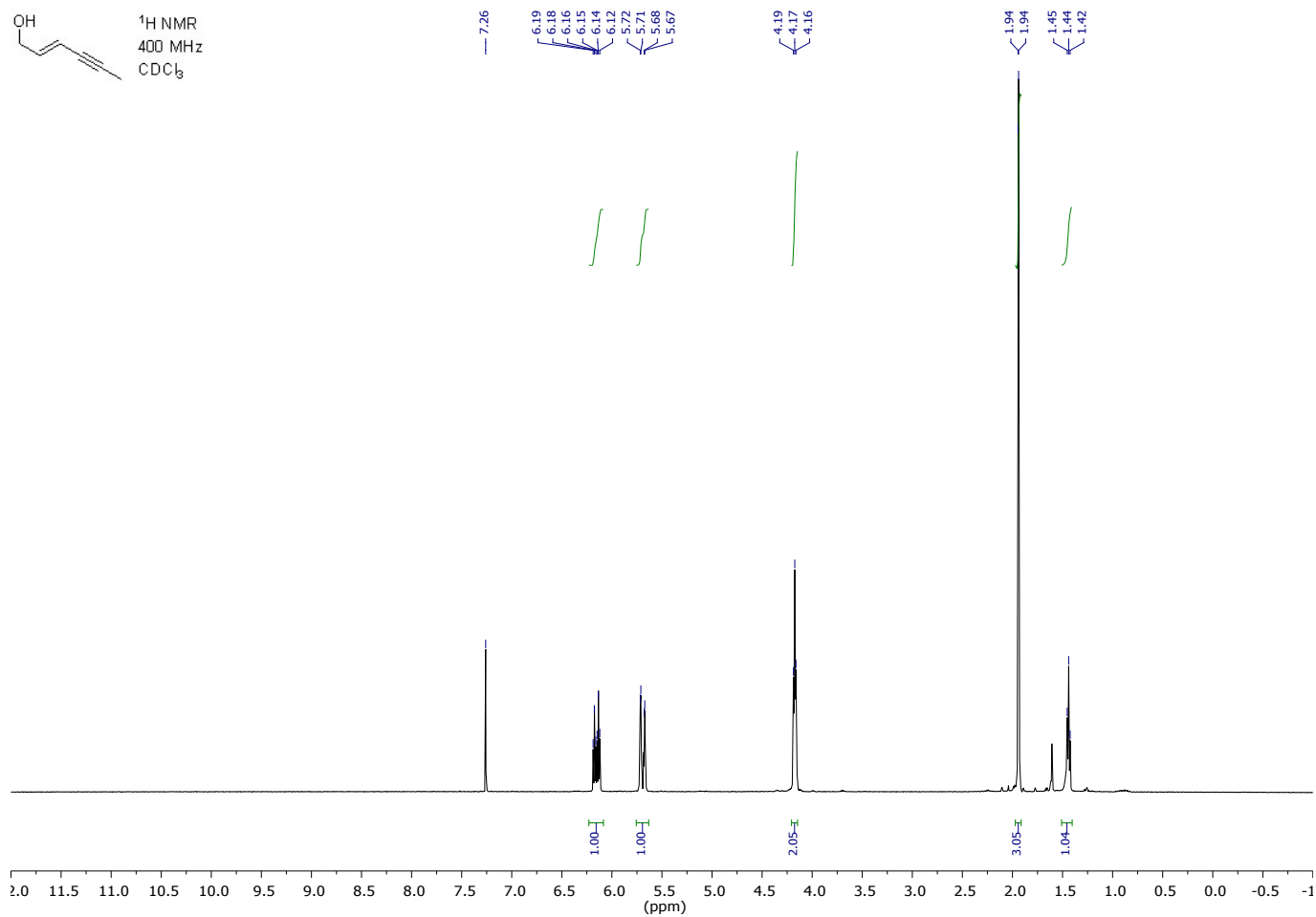
^{b.} *Current address School of Pharmacy, University of East Anglia, Norwich Research Park, Norwich, Norfolk, UK NR4 7TJ*

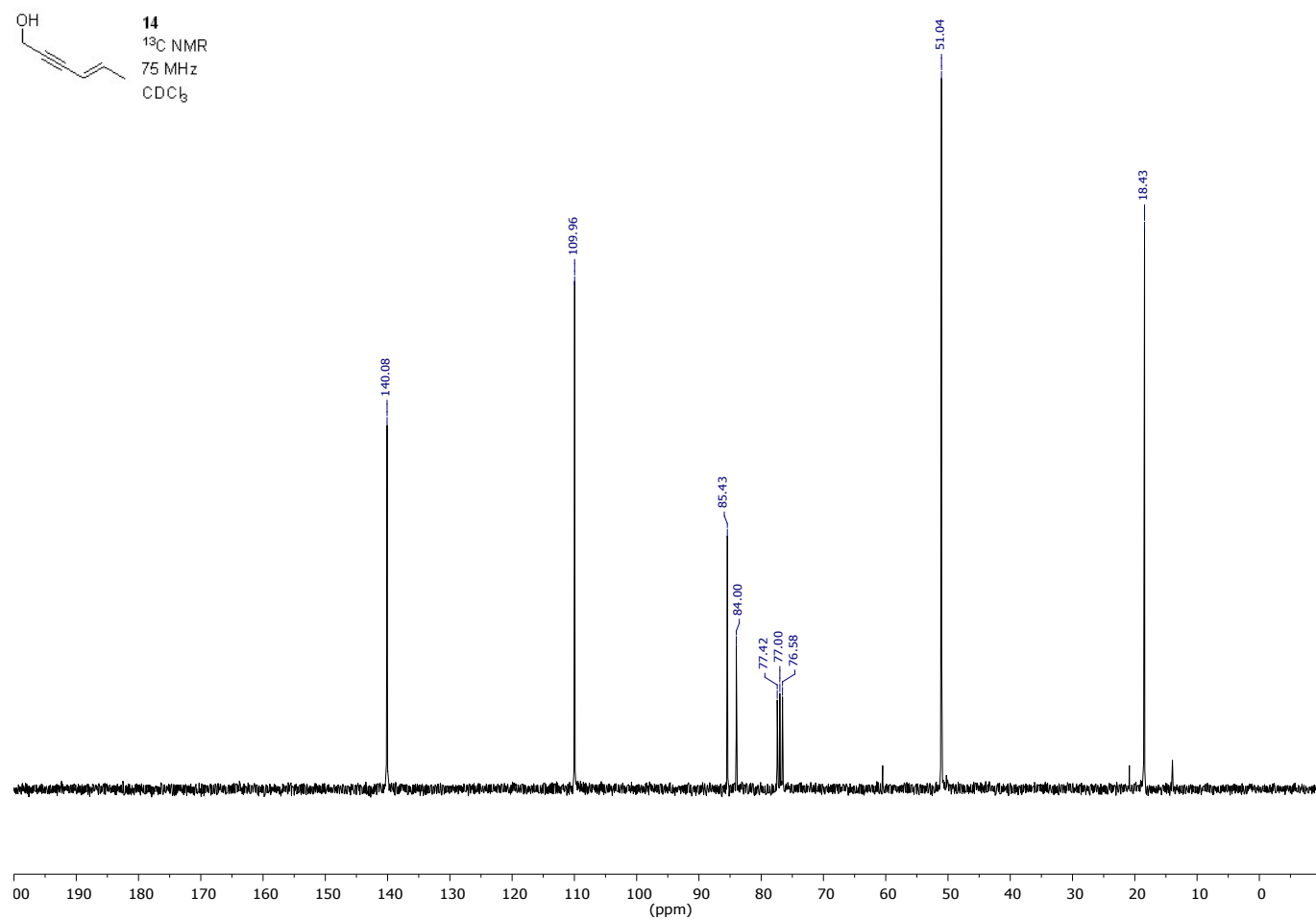
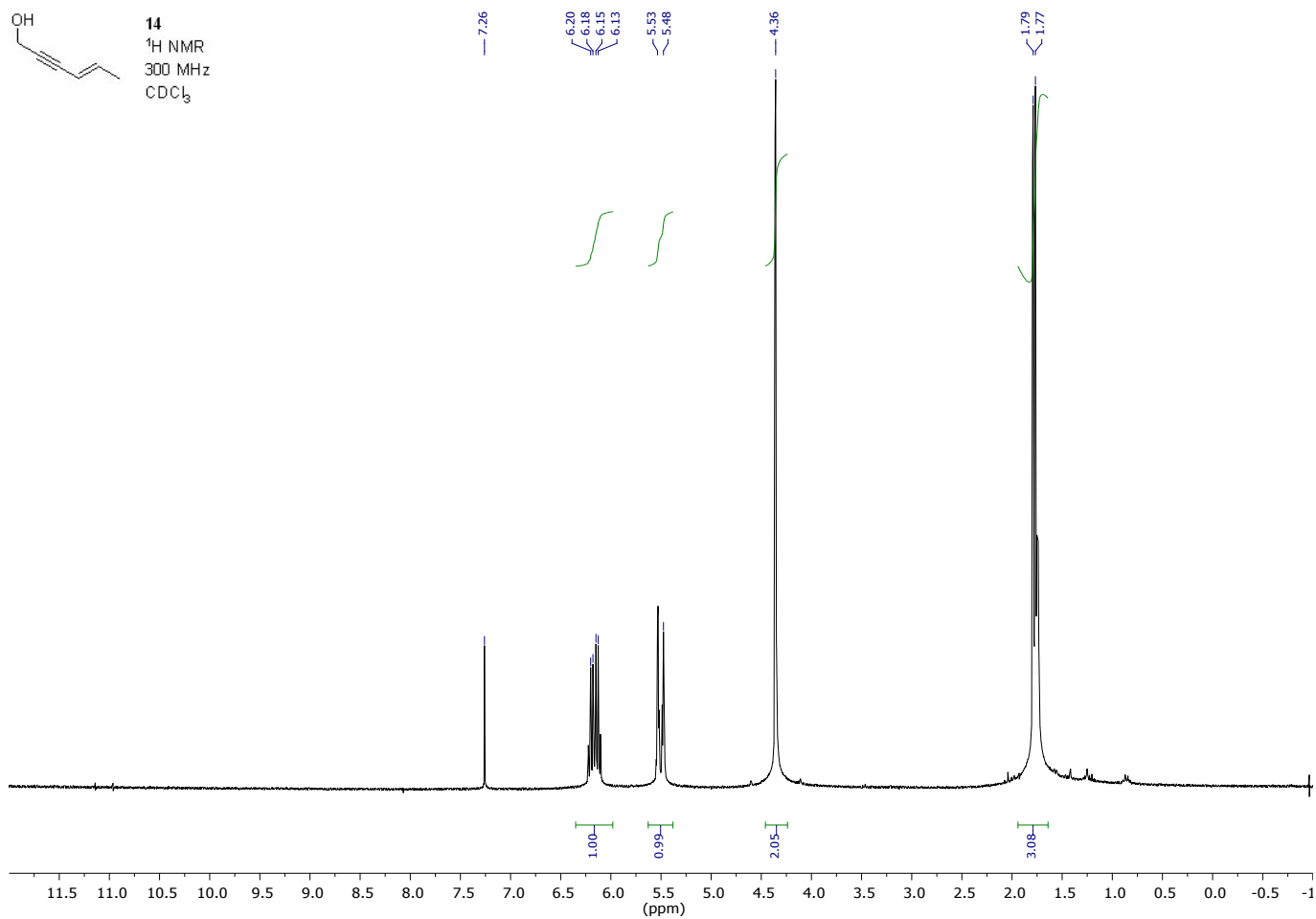
^{c.} *Email: rab@anu.edu.au*

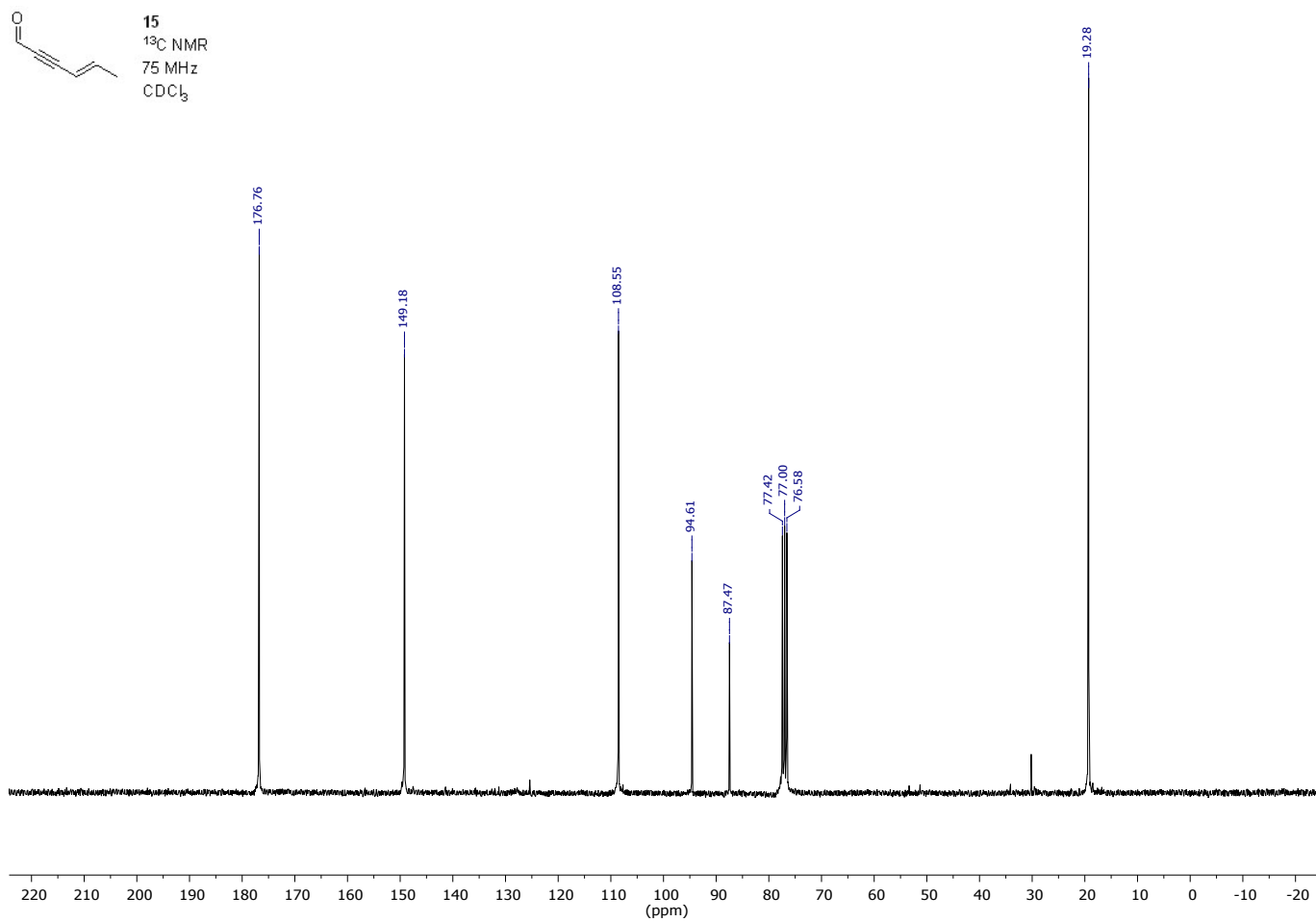
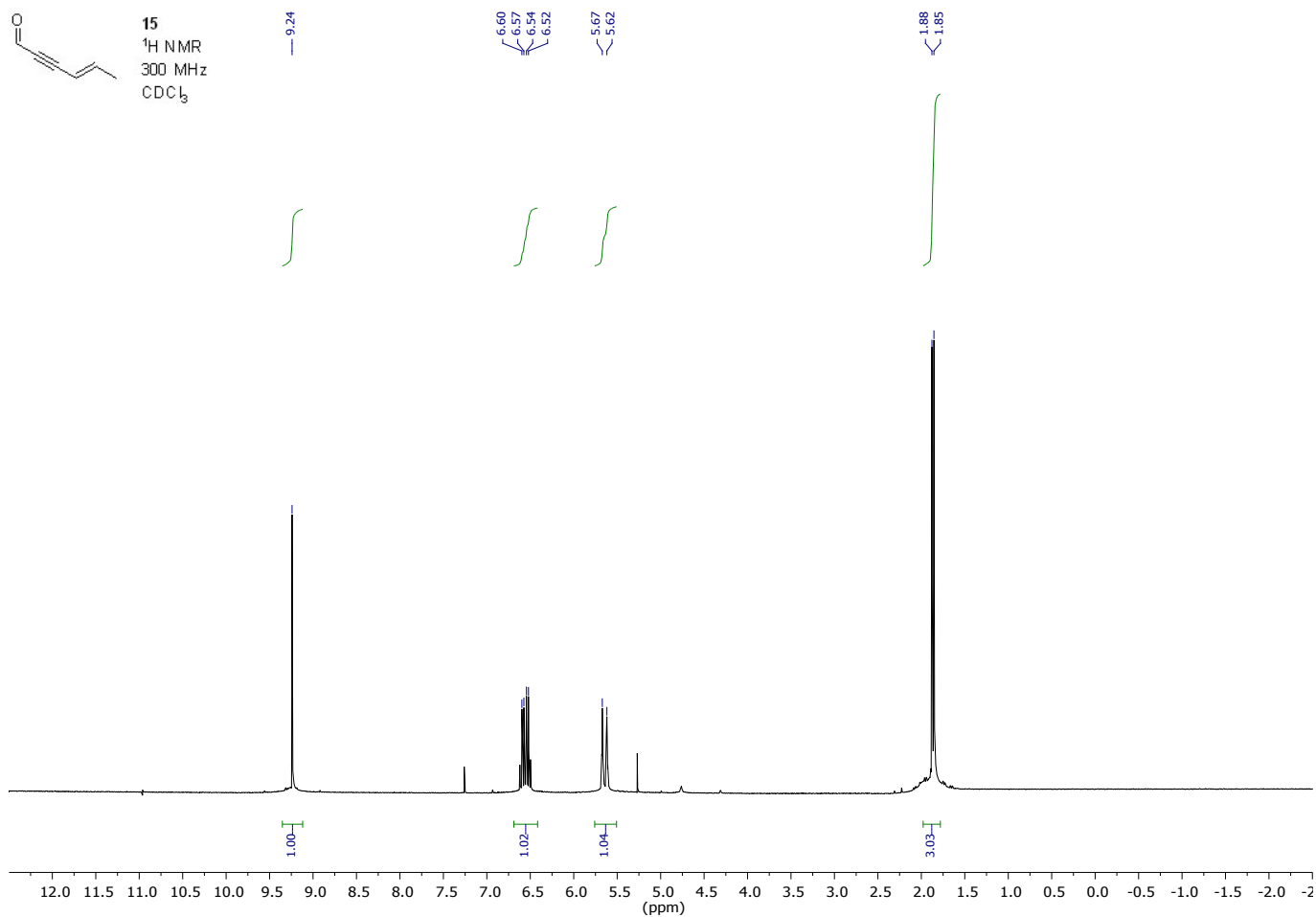
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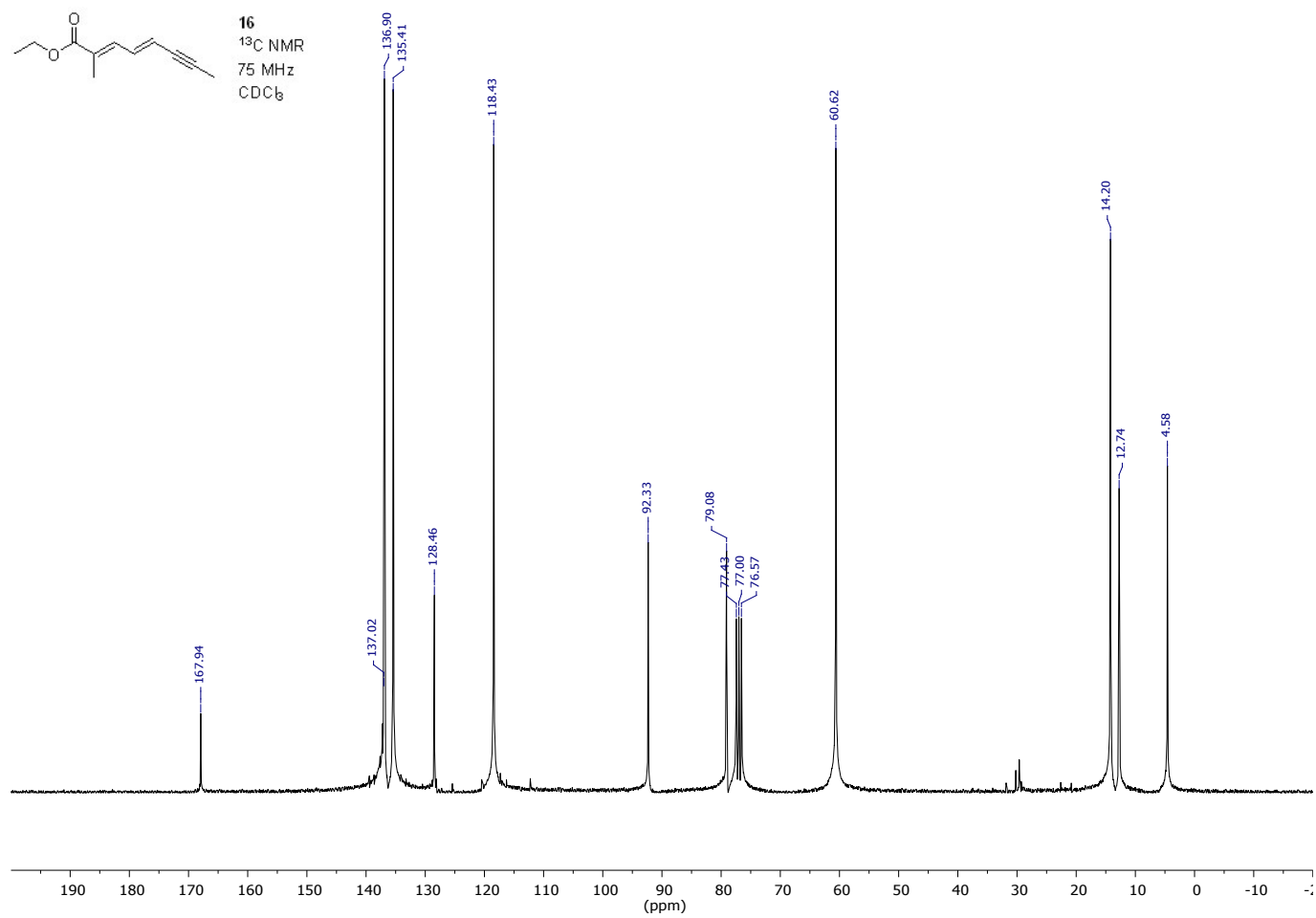
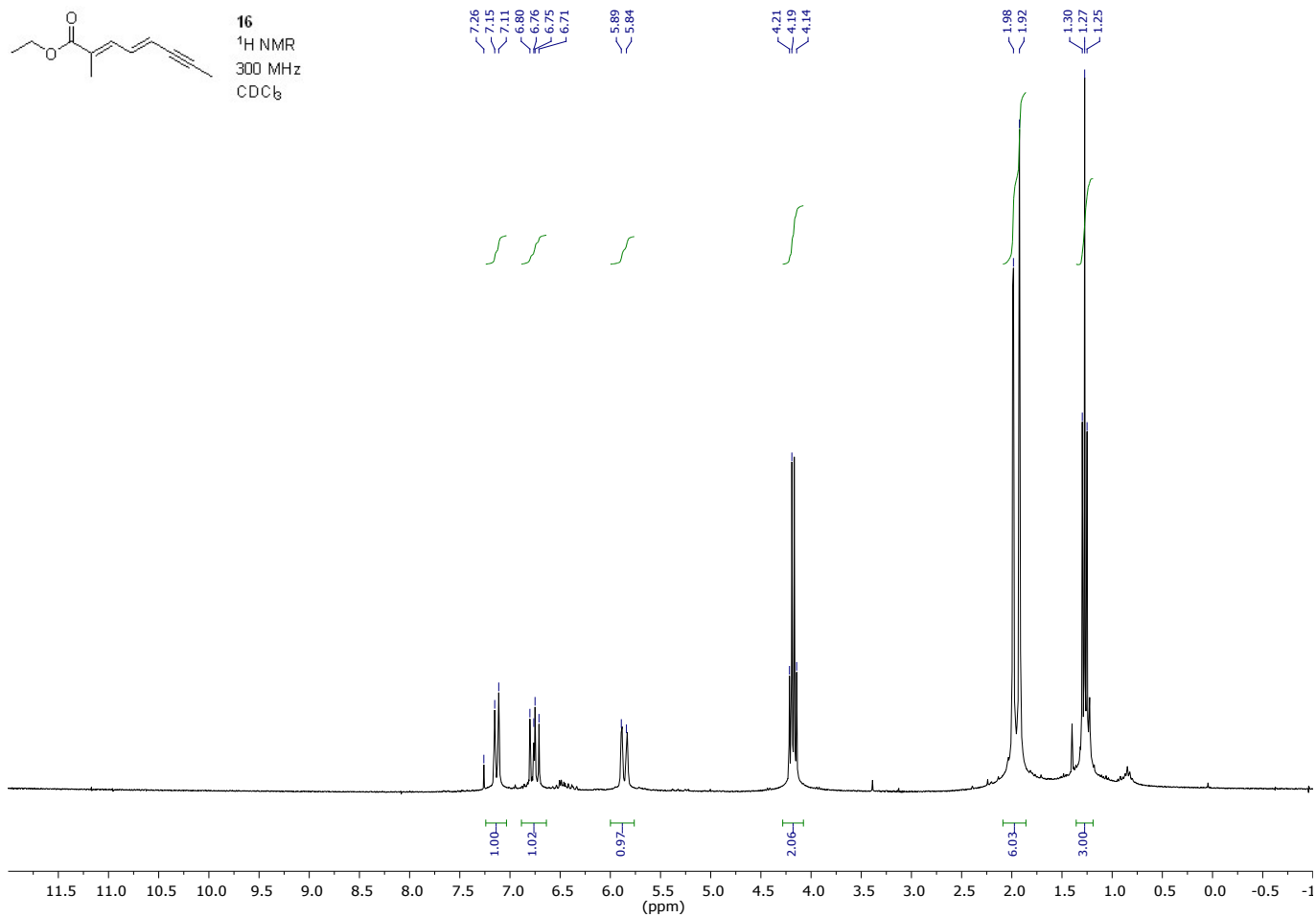
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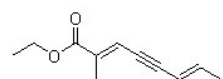
NMR Spectra



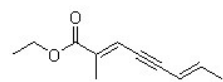
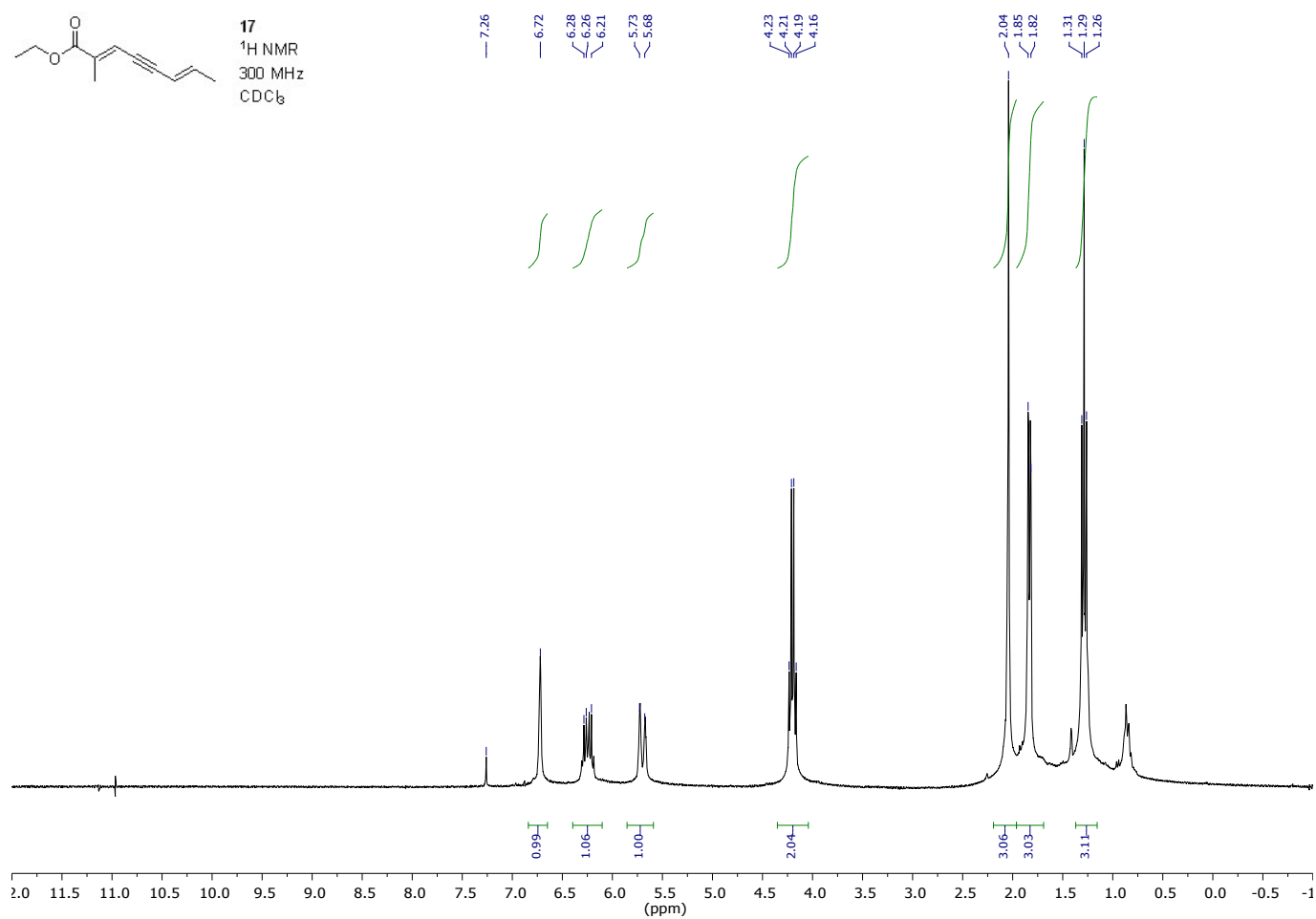




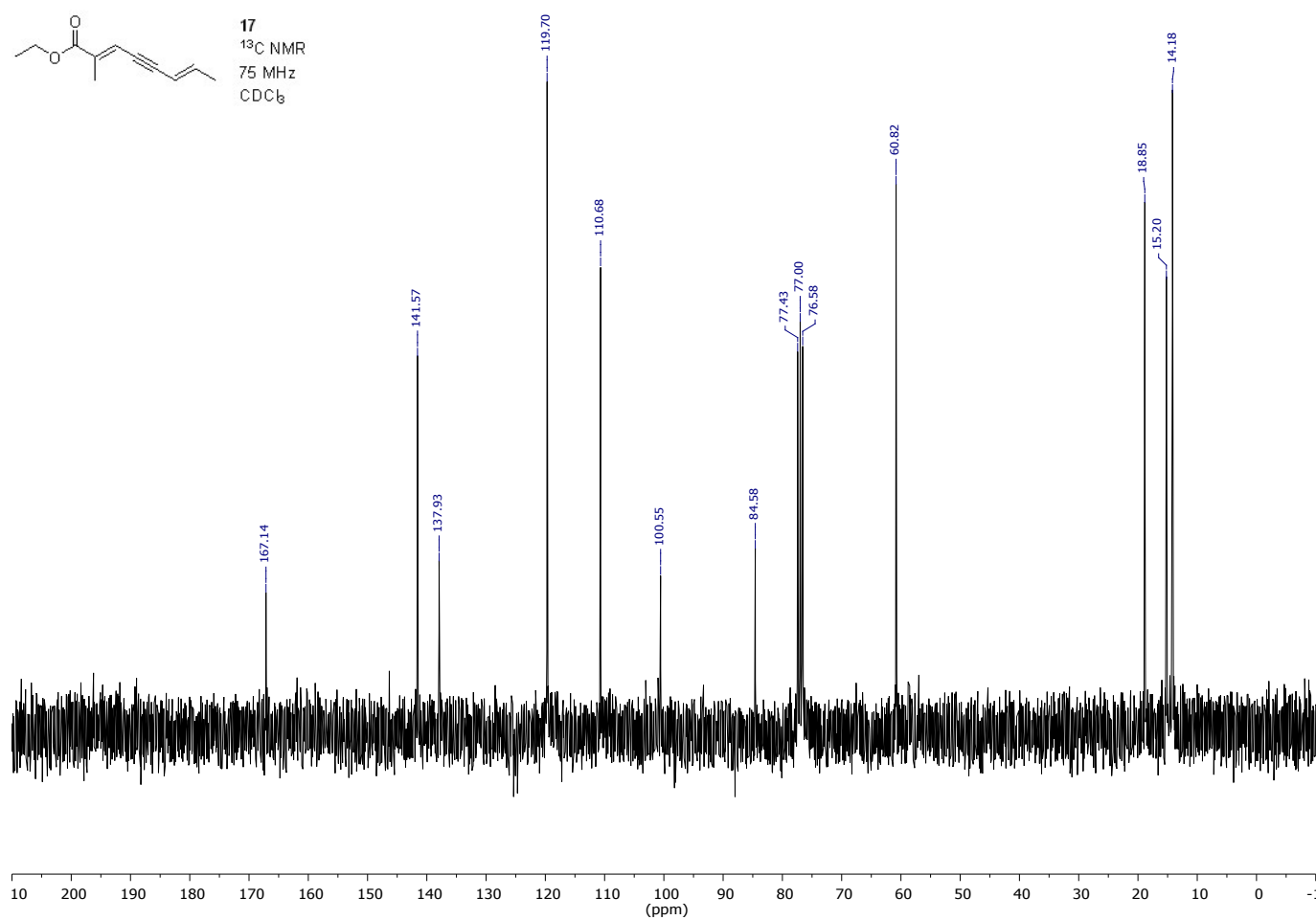


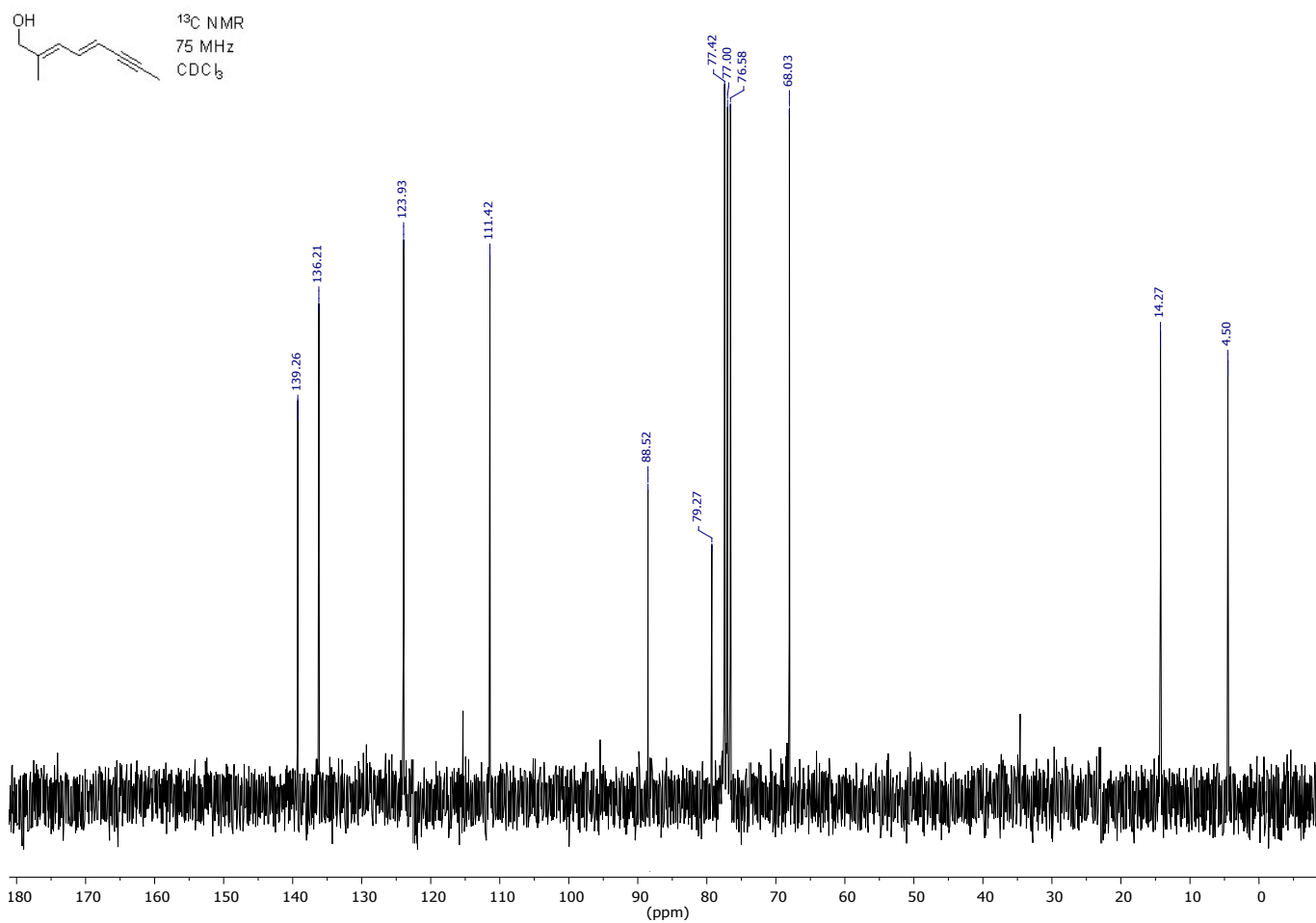
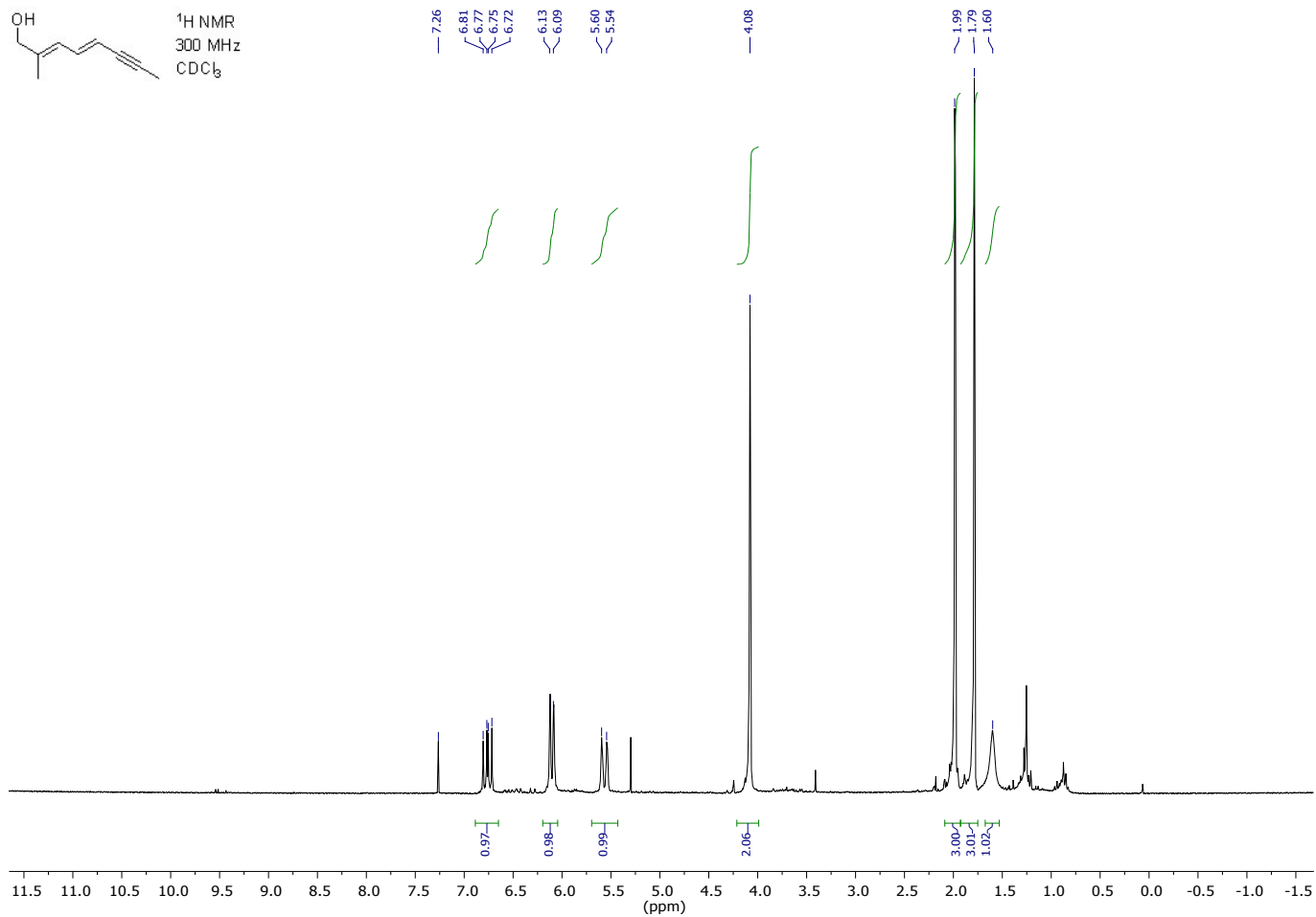


17
¹H NMR
 300 MHz
 CDCl₃



17
¹³C NMR
 75 MHz
 CDCl₃







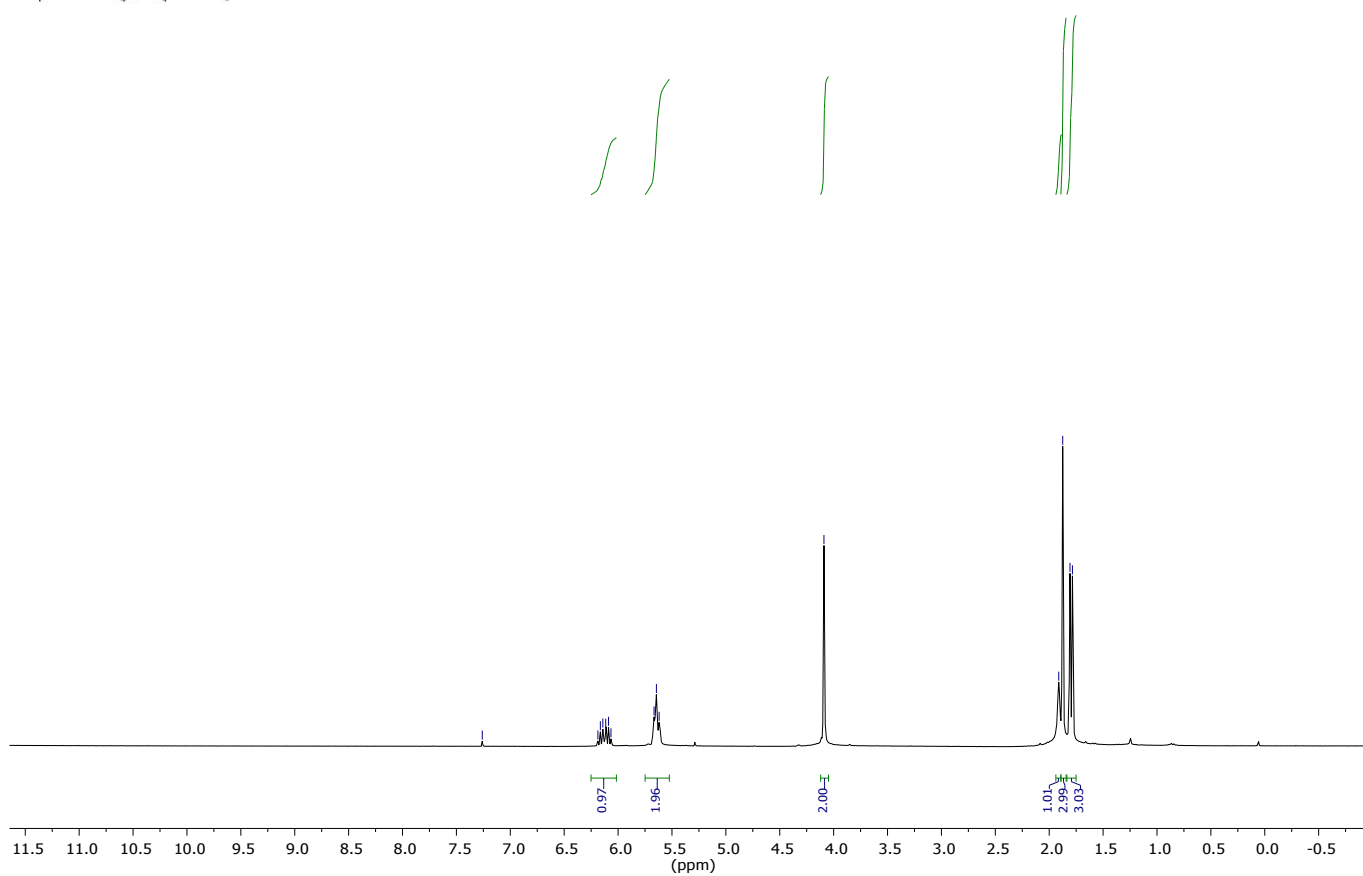
¹H NMR
300 MHz
CDCl₃

7.26

6.19
6.16
6.14
6.11
6.09
6.07
5.67
5.64
5.62

4.09

1.91
1.87
1.81
1.78



¹³C NMR
75 MHz
CDCl₃

77.42
77.00
76.58

66.95

18.67
16.44

149.06

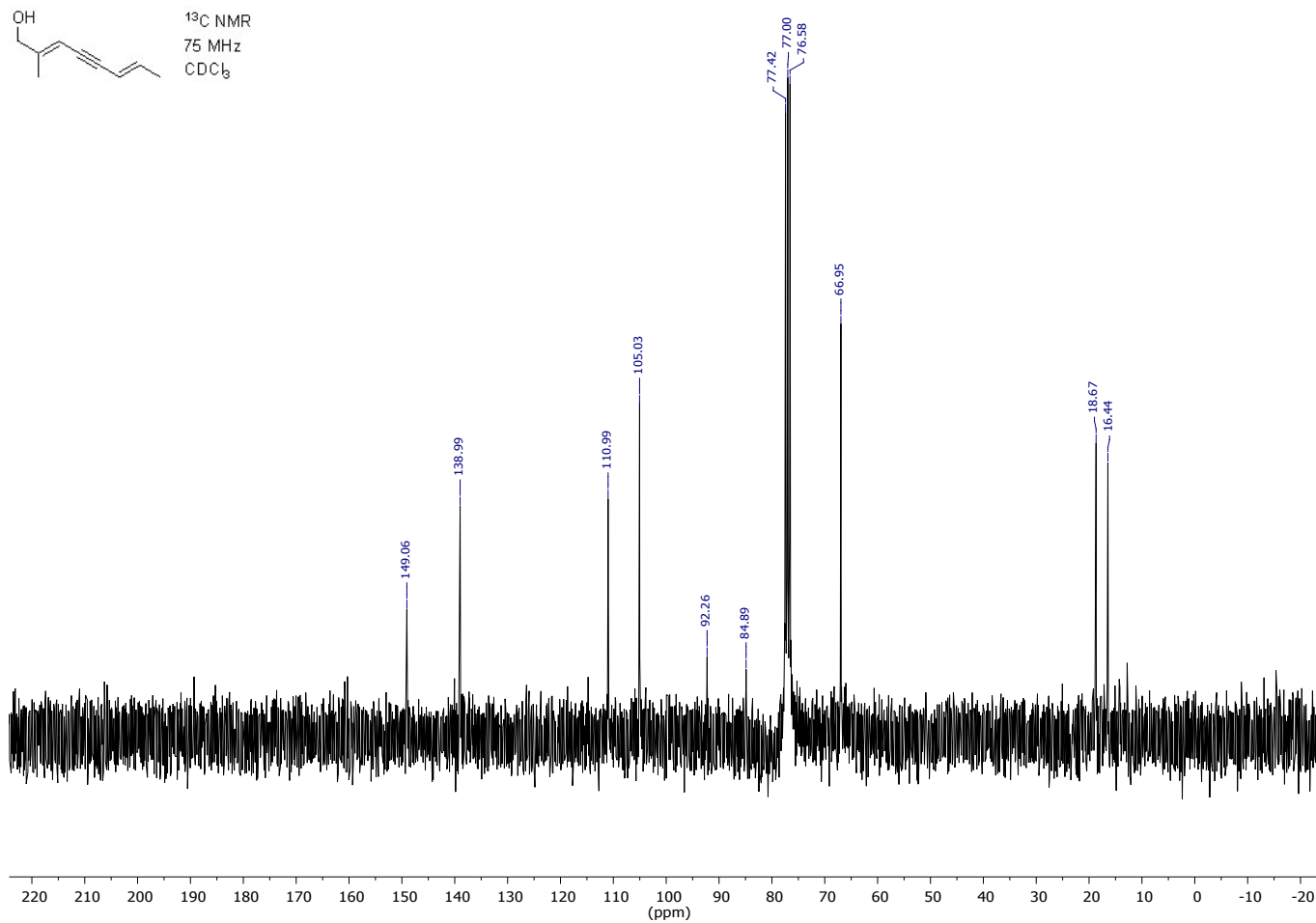
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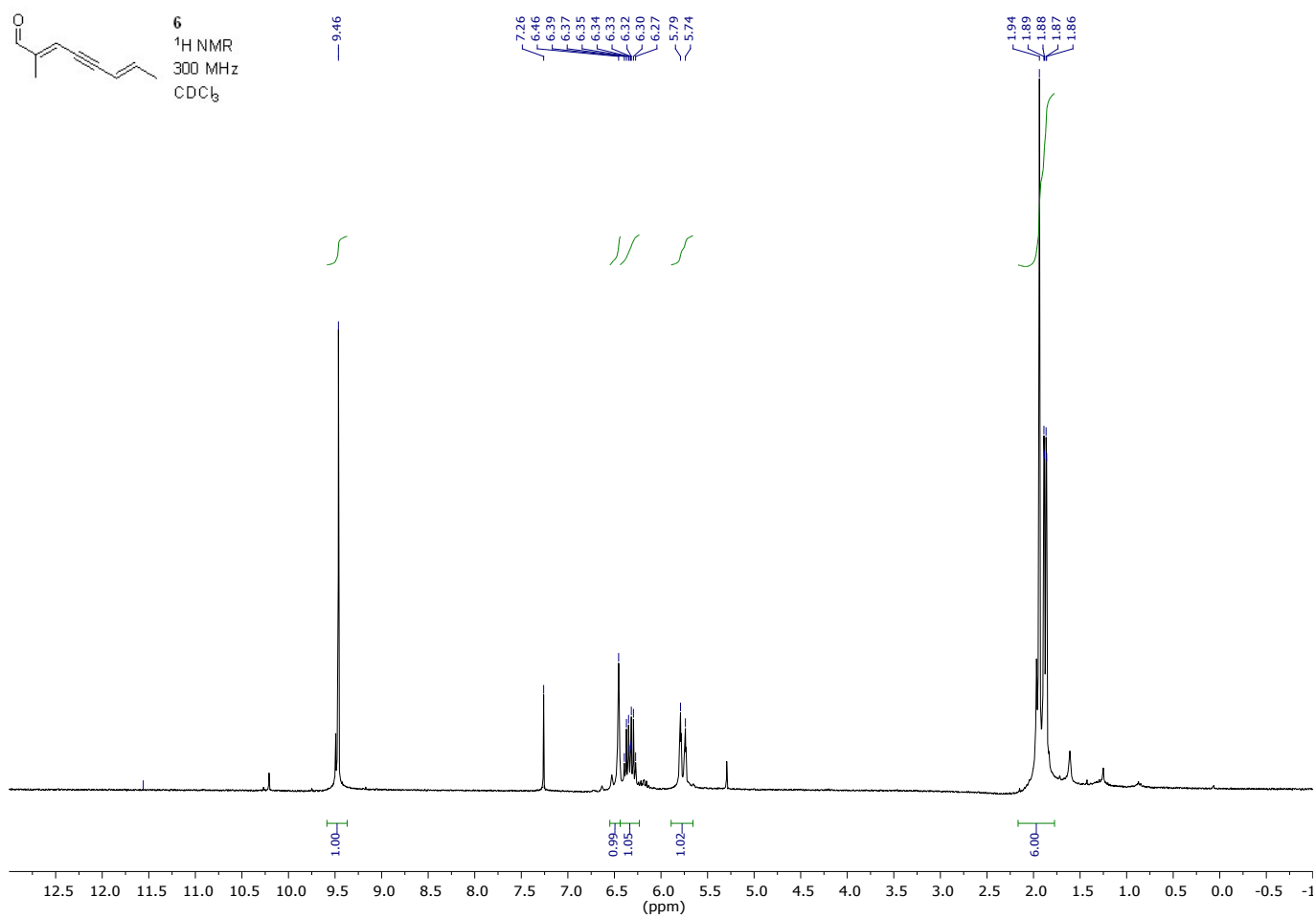
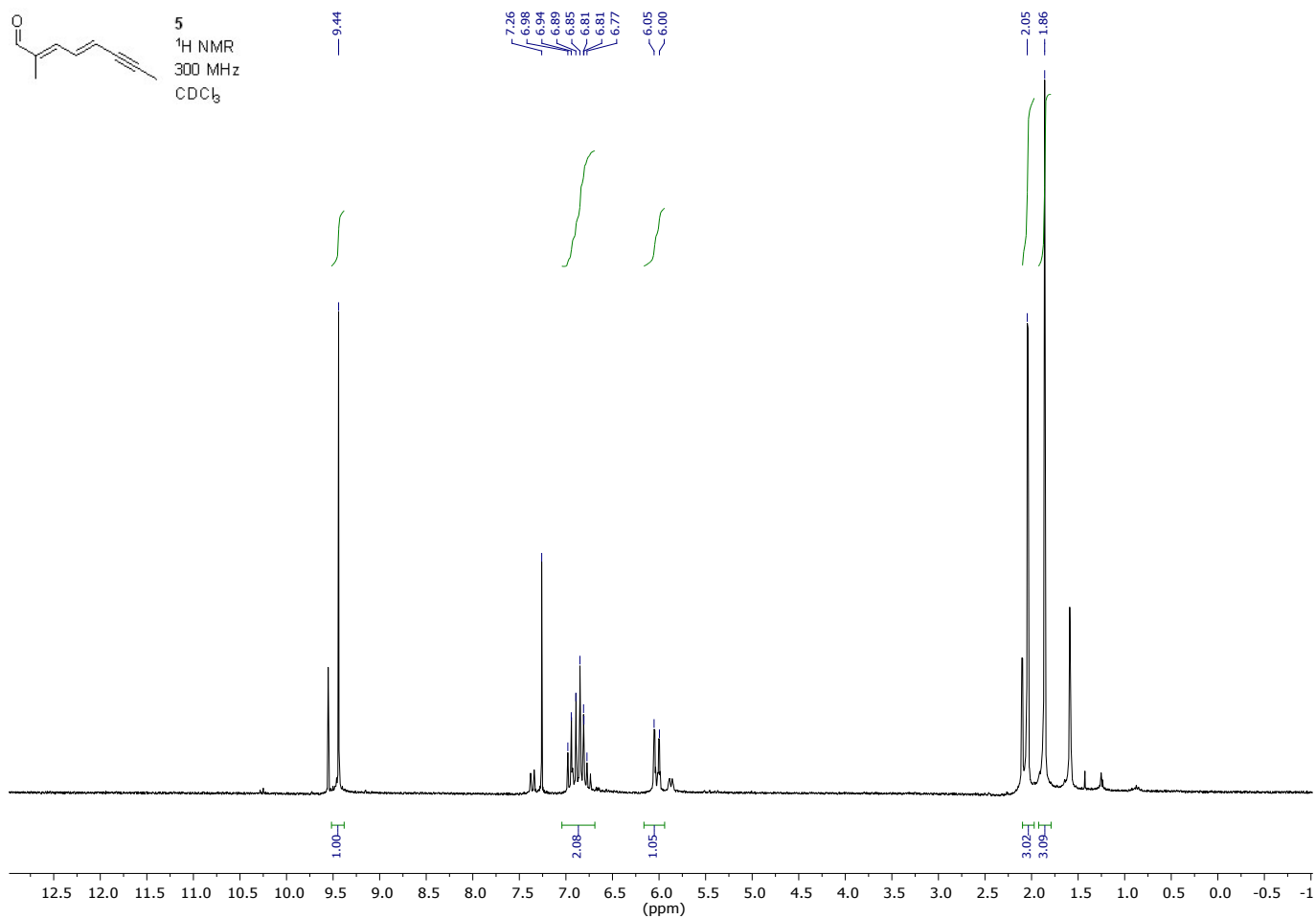
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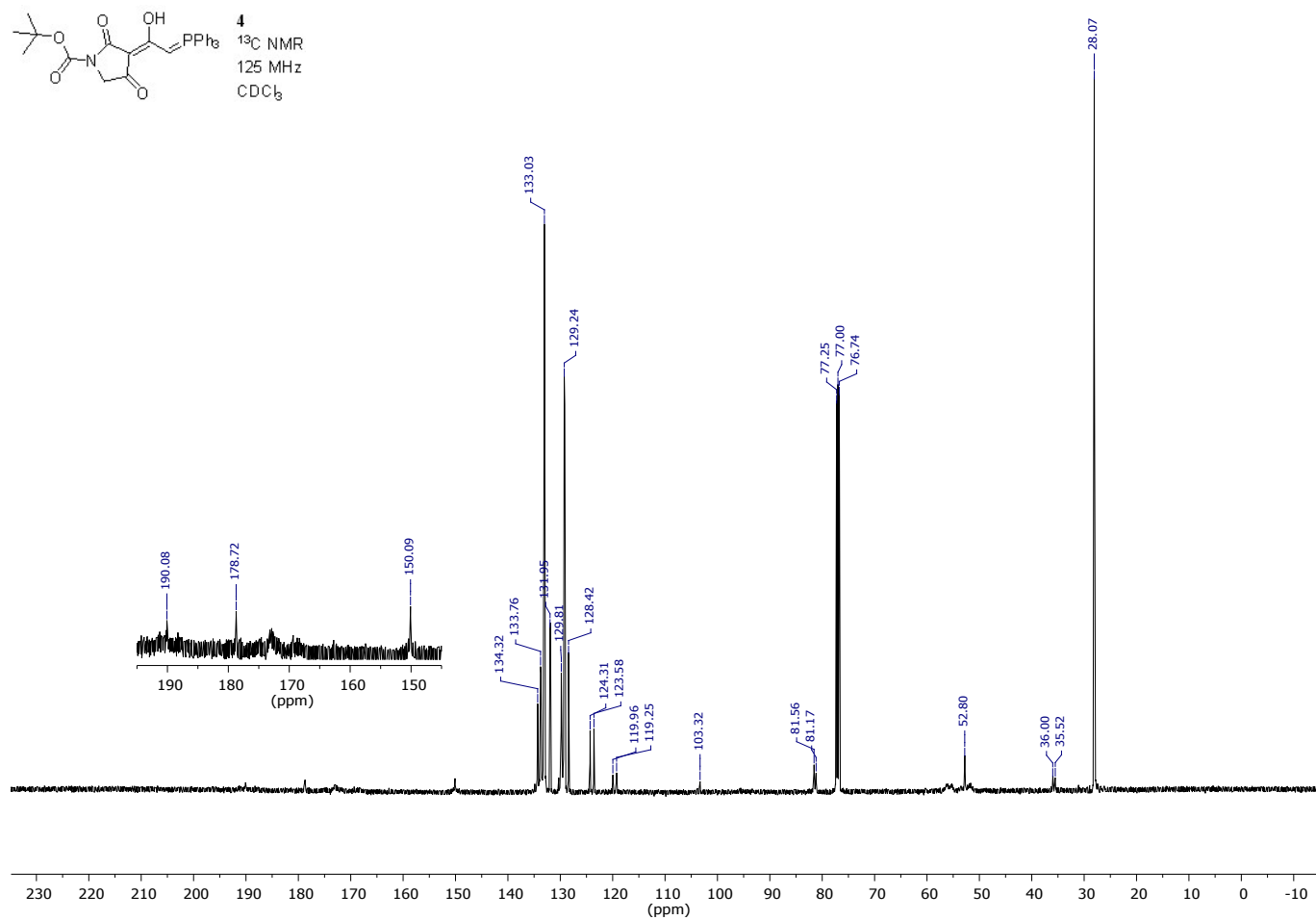
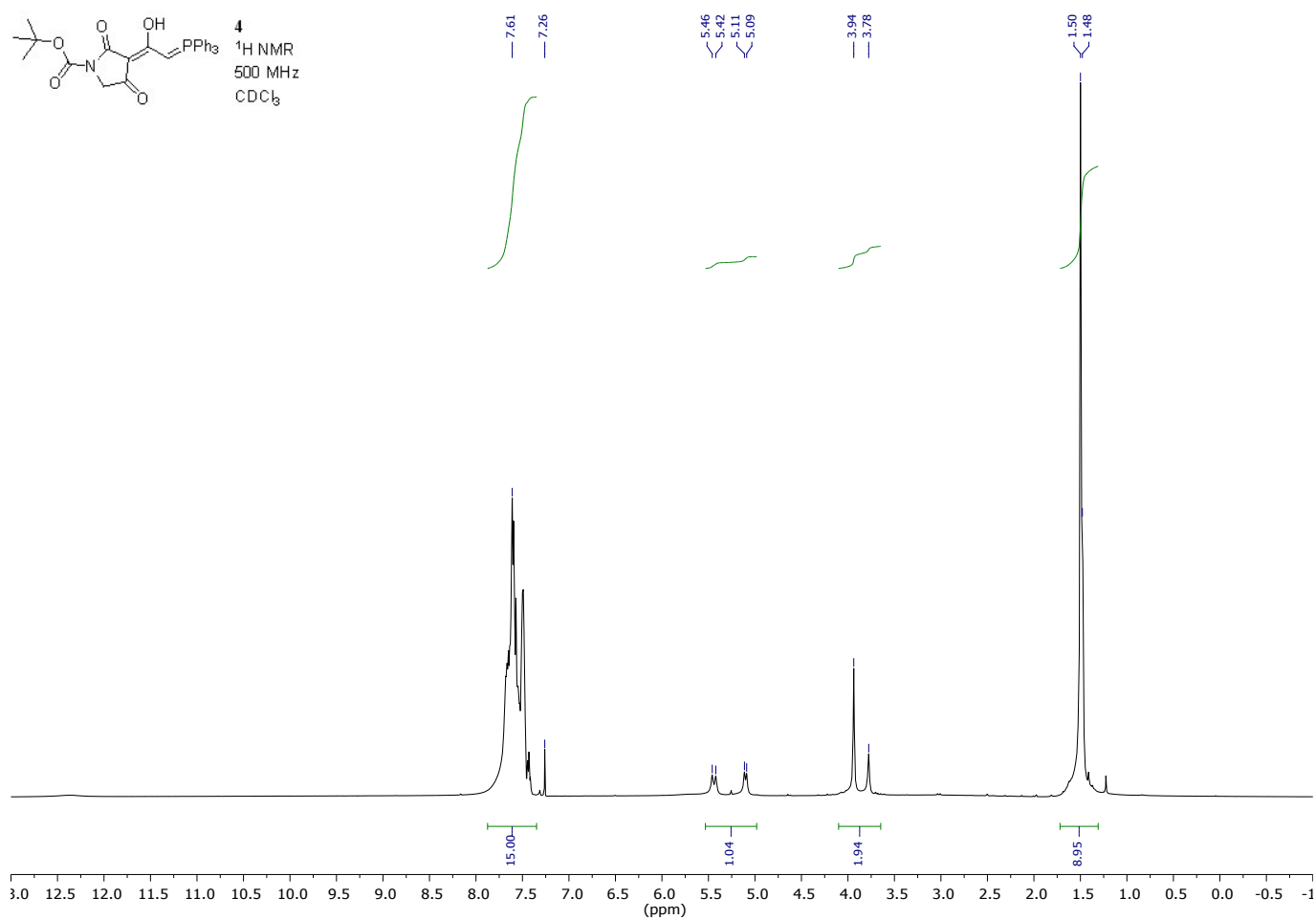
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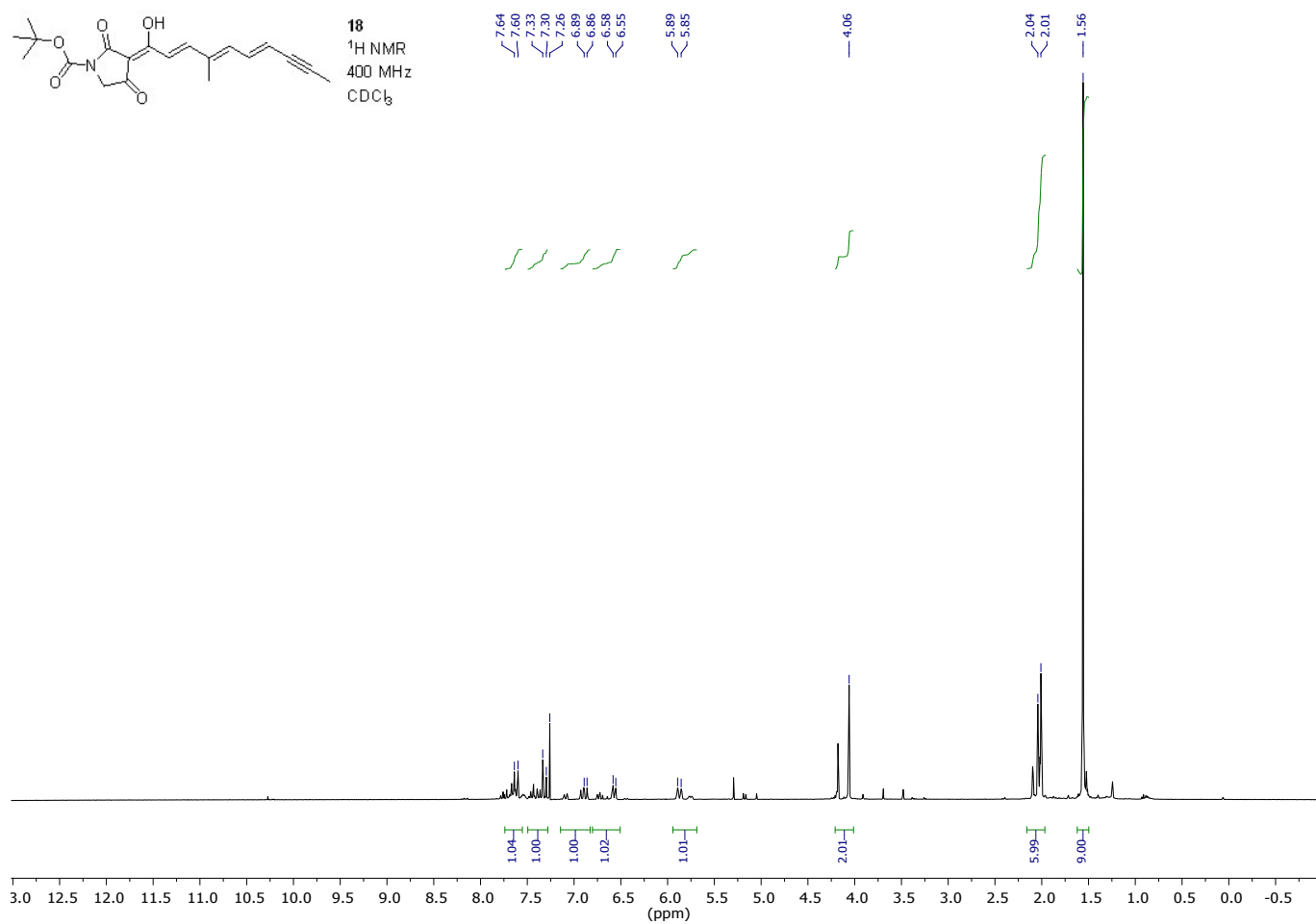
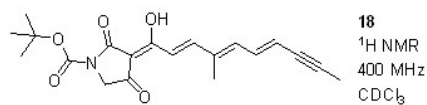
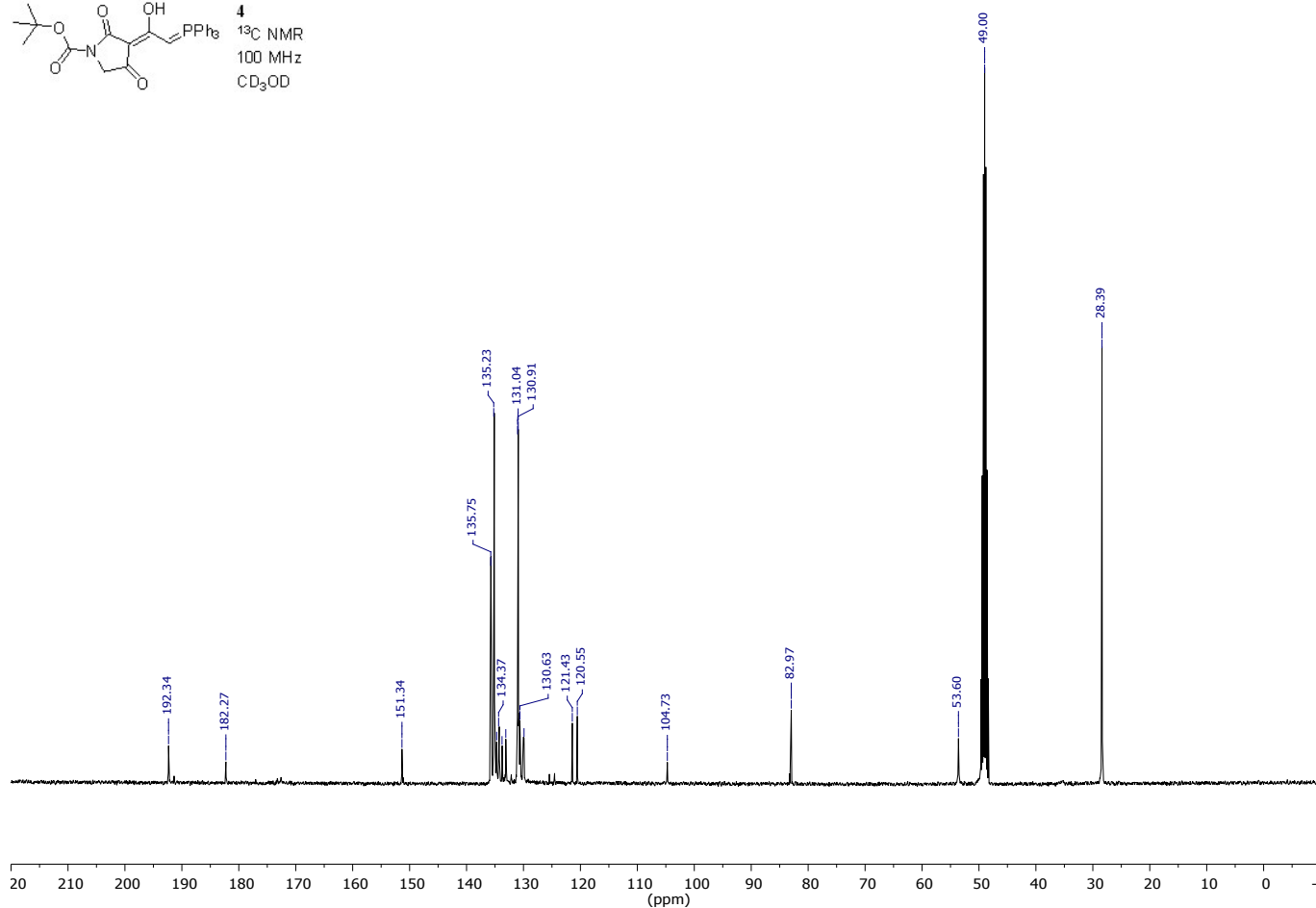
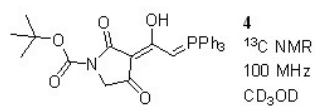
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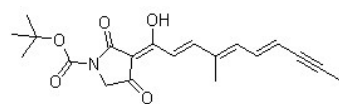
84.89



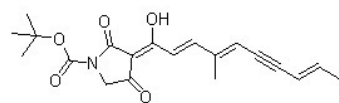
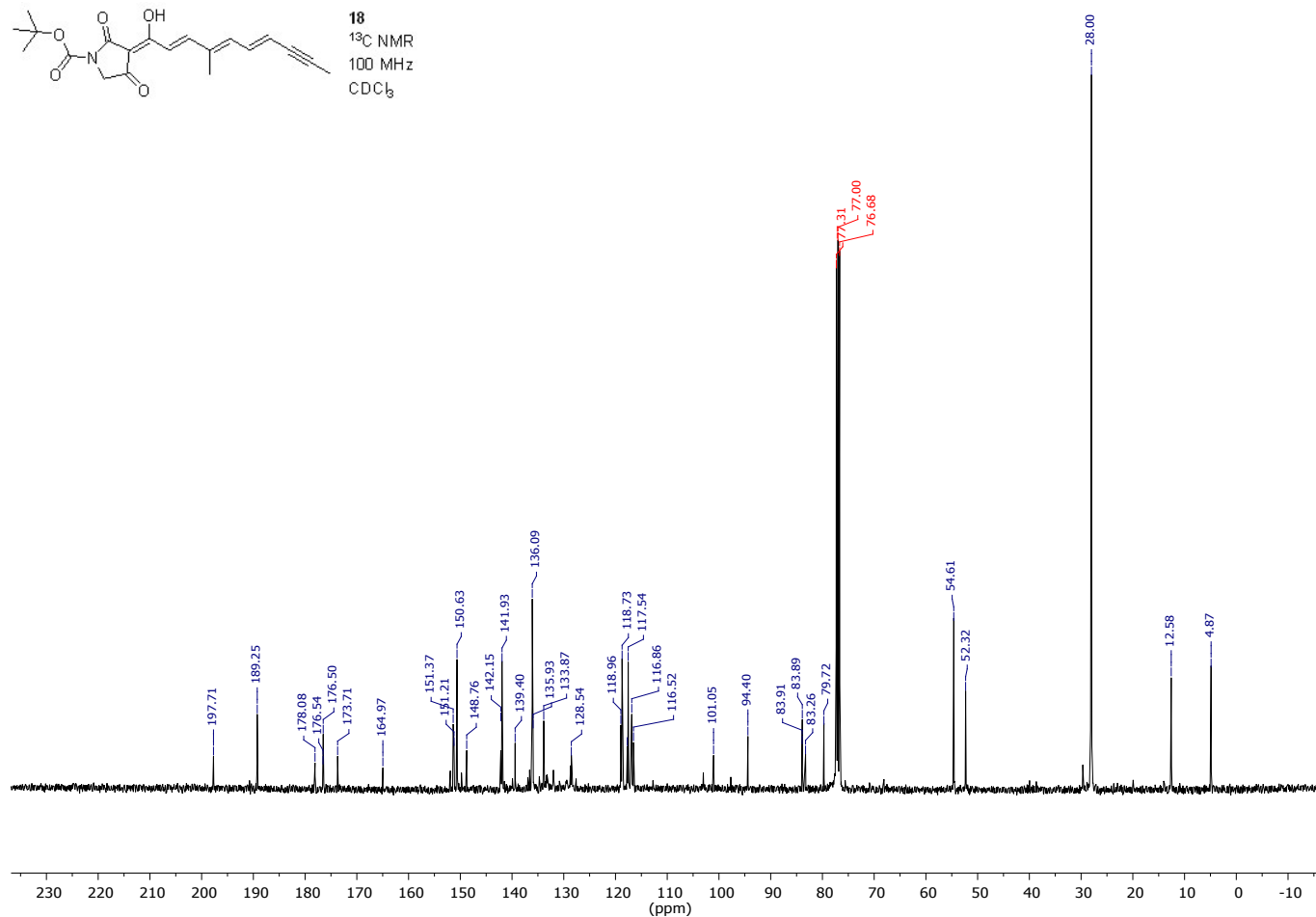




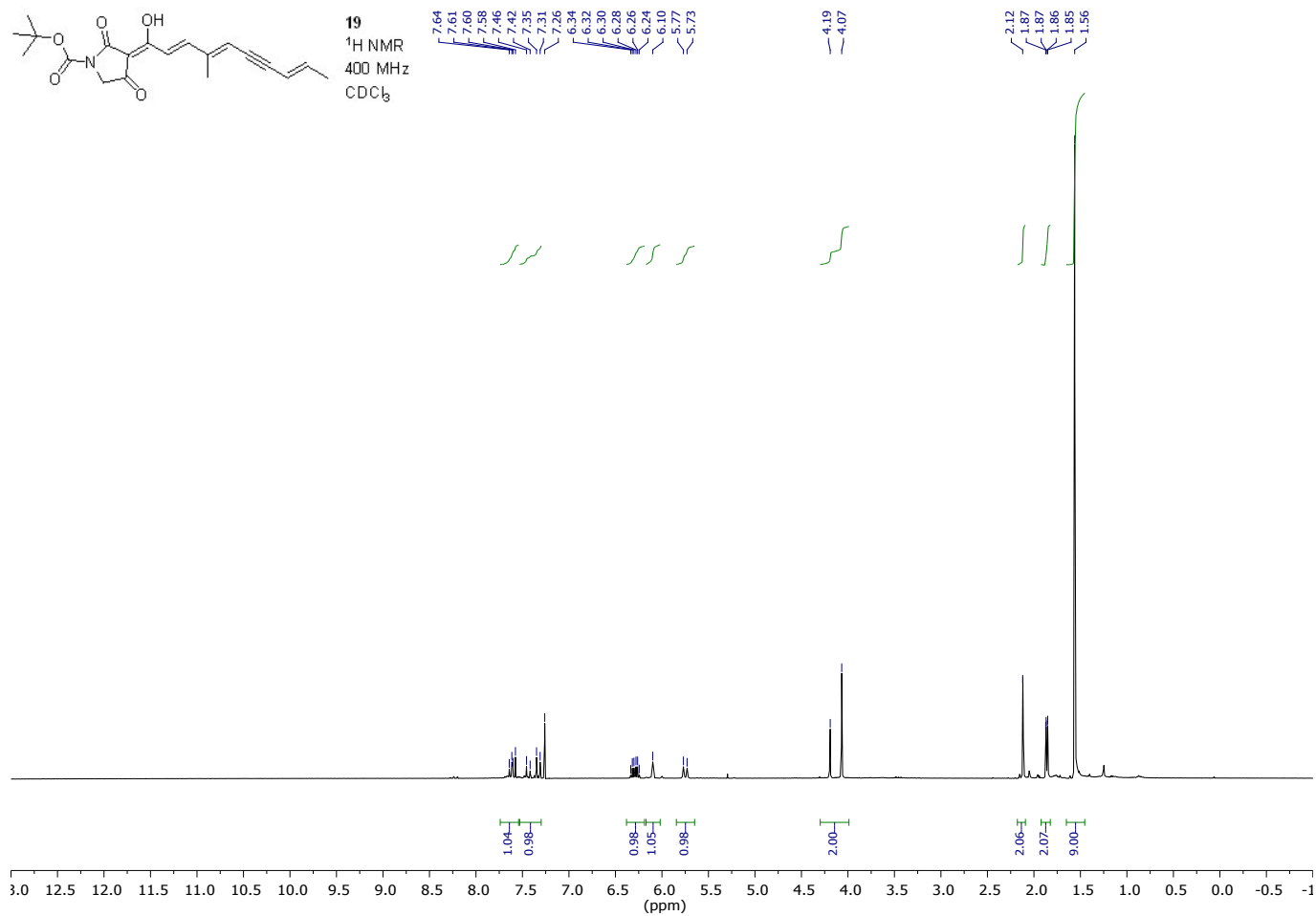


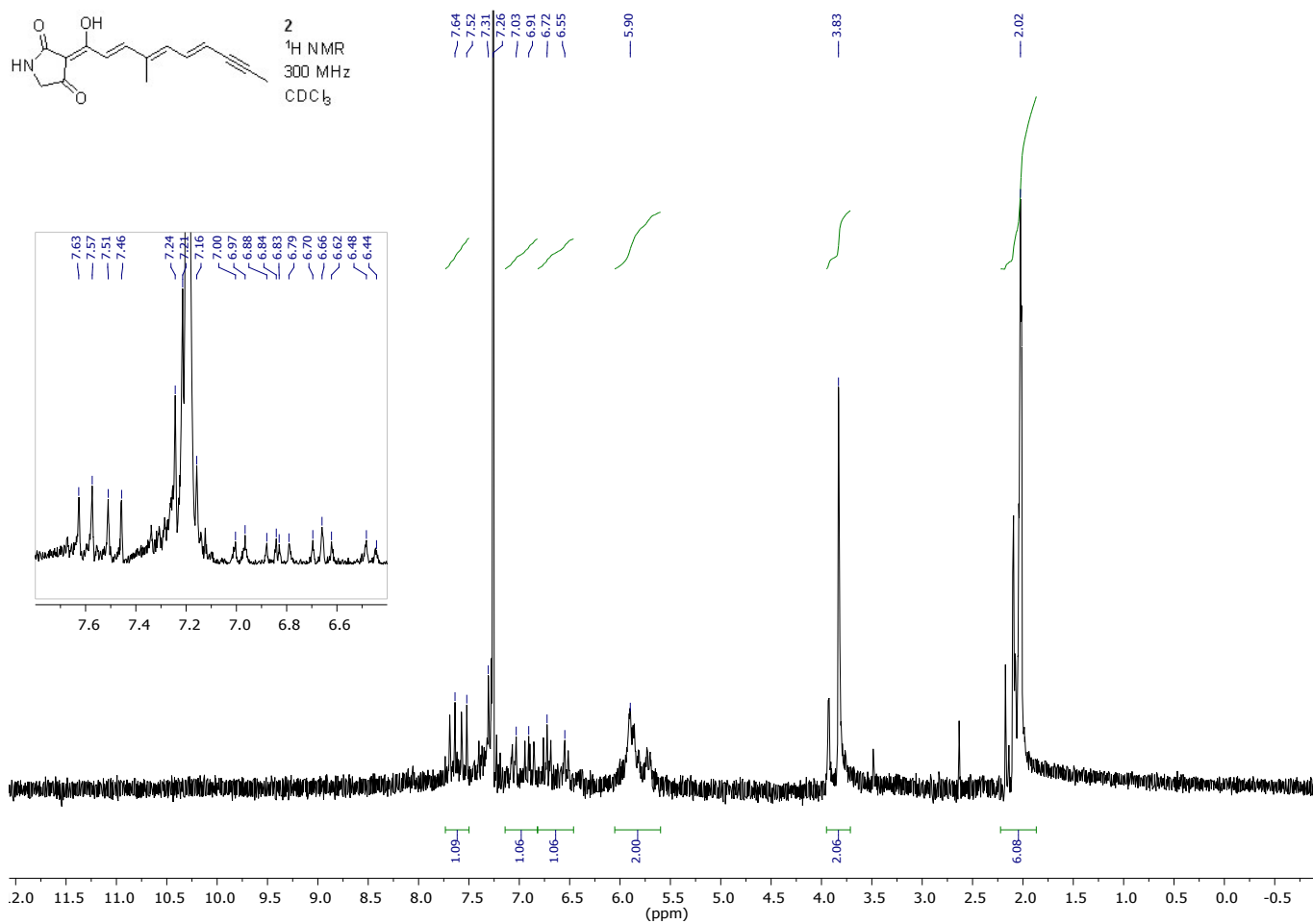
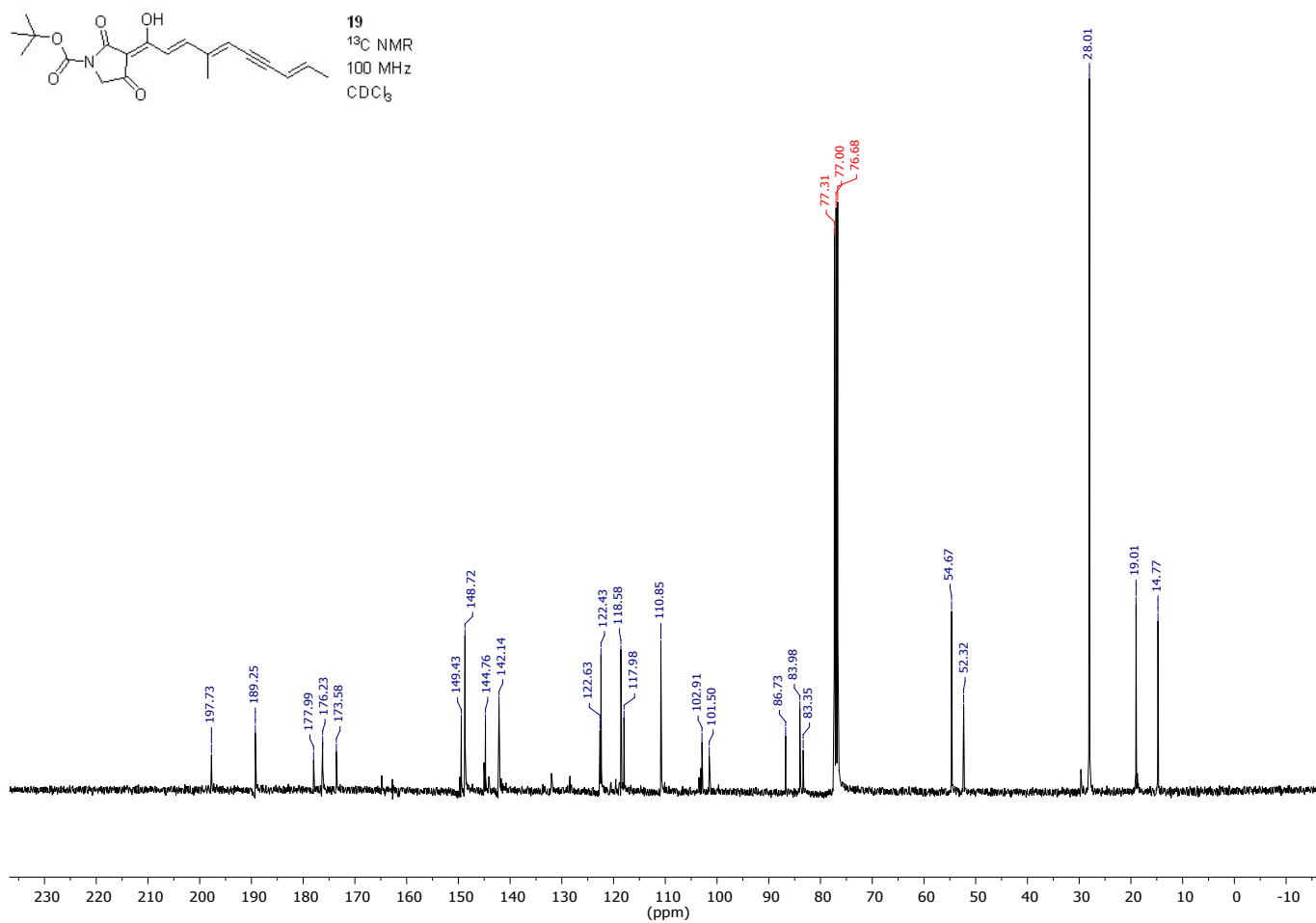


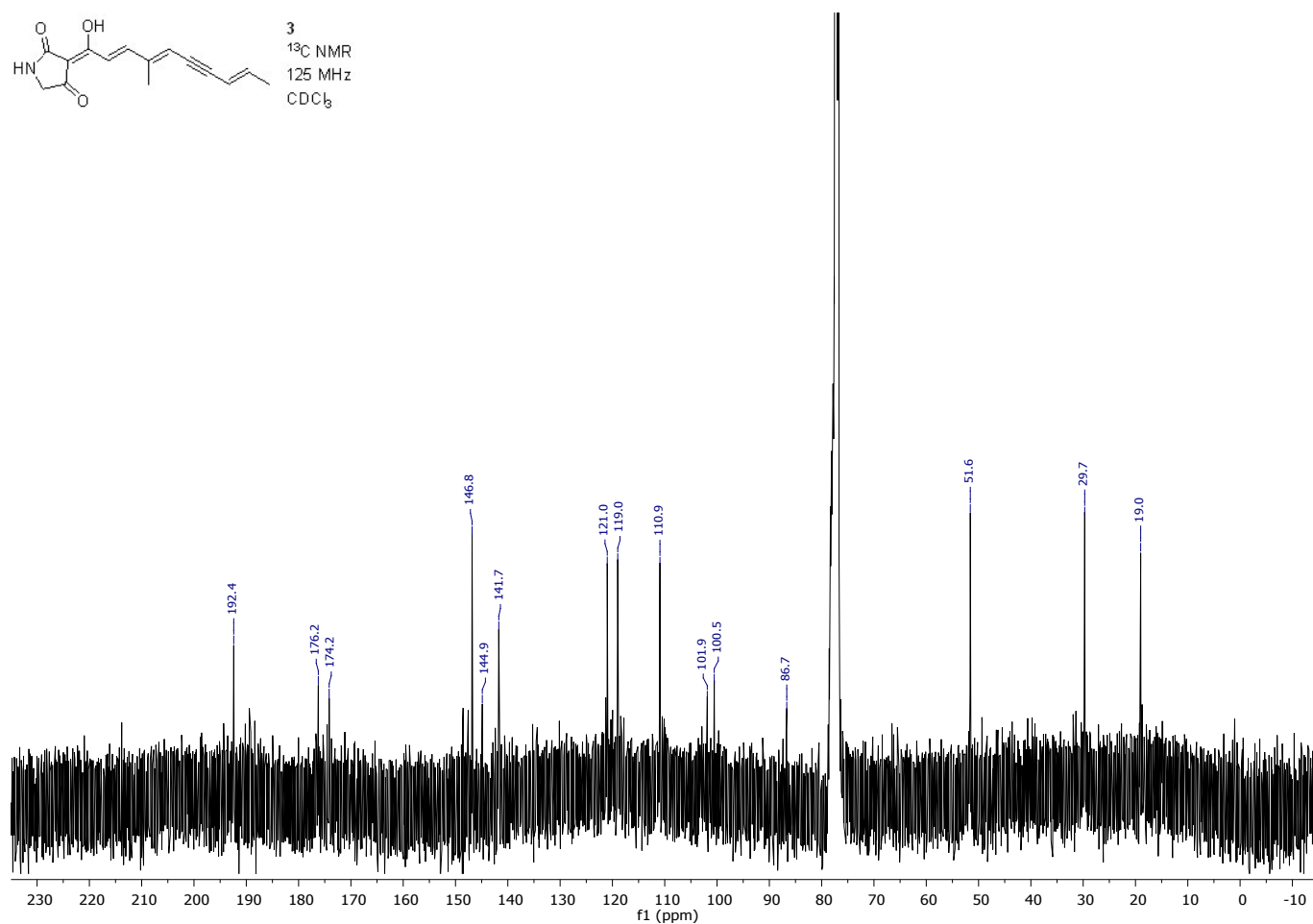
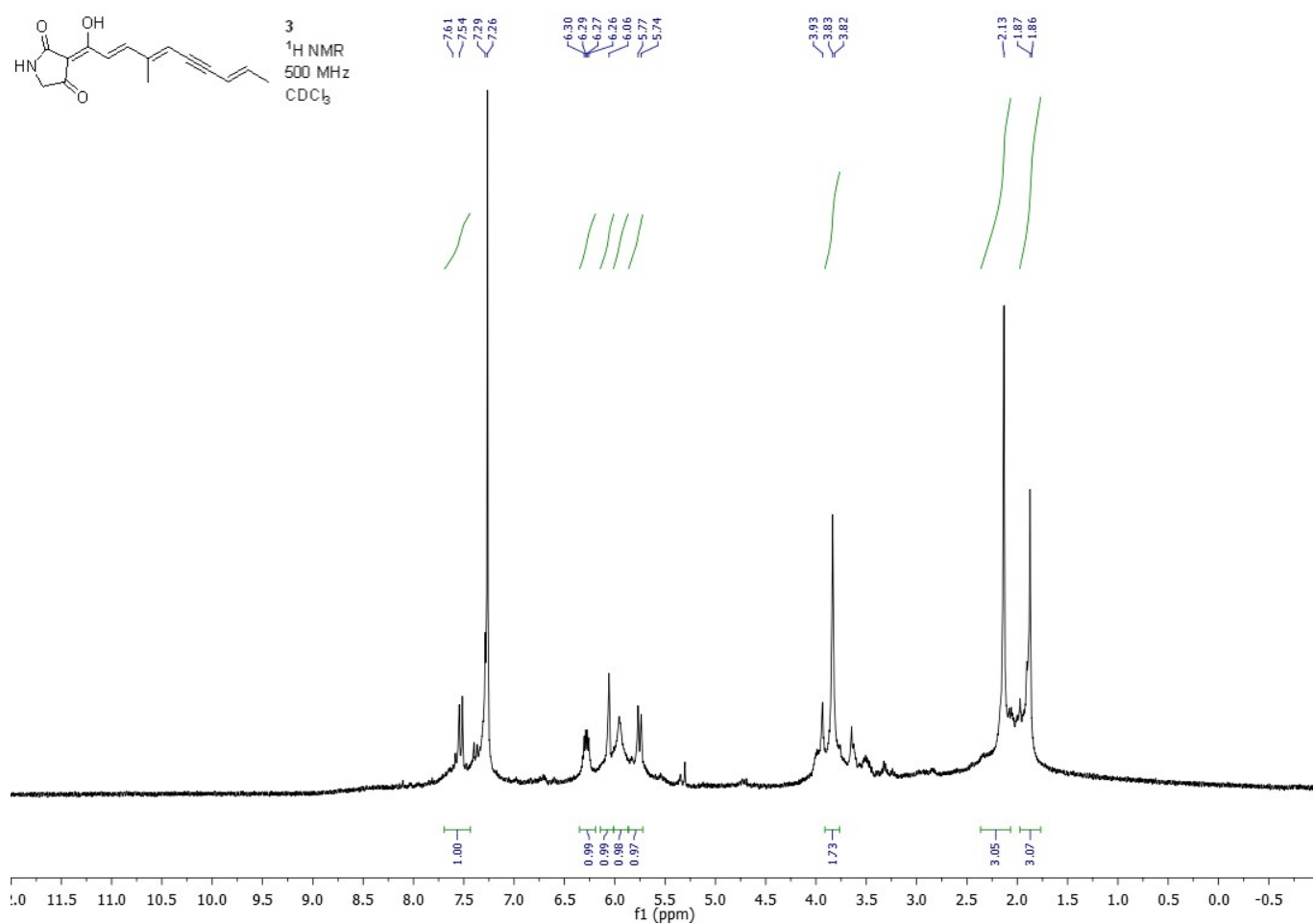
18
¹³C NMR
 100 MHz
 CDCl₃



19
¹H NMR
 400 MHz
 CDCl₃



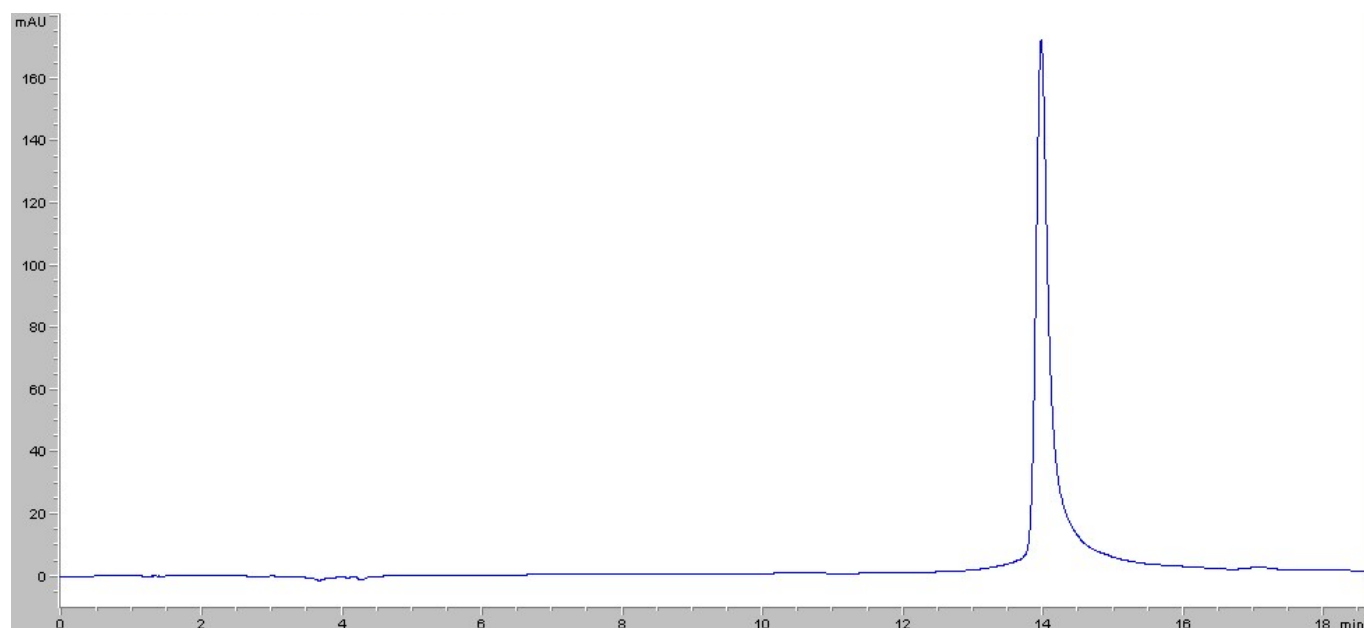




HPLC Traces

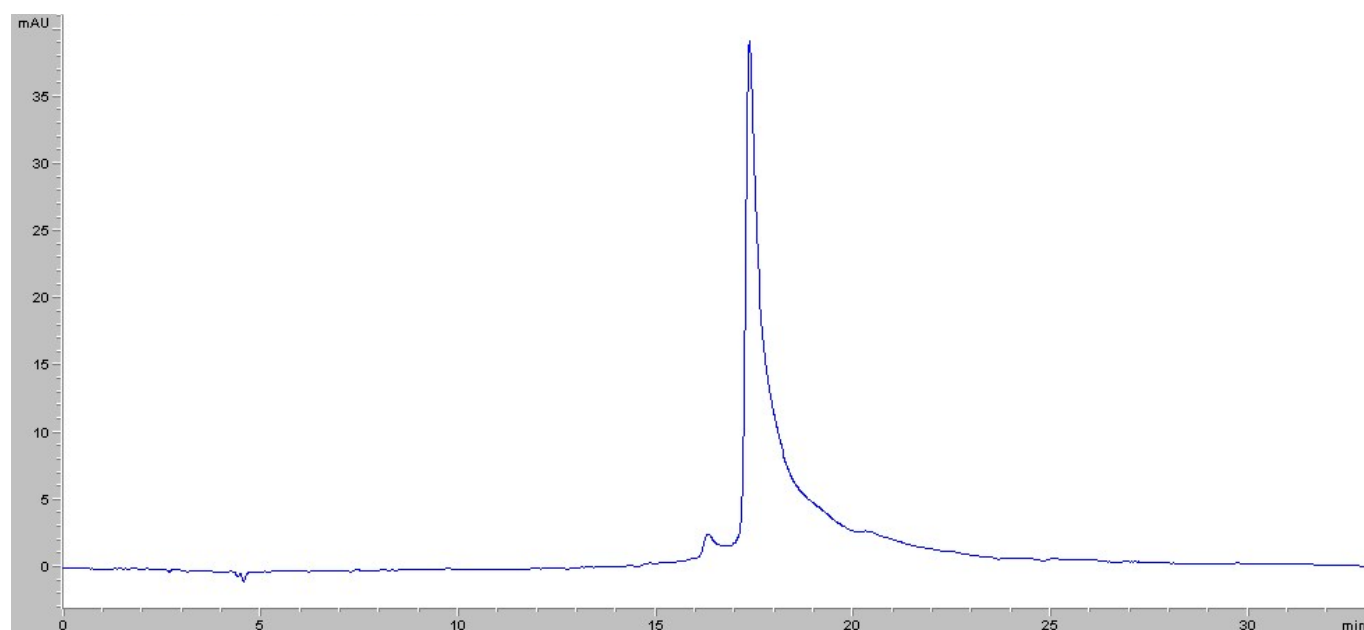
Ravynic Acid 3 HPLC (trace represents co-injection of synthetic and natural product)

C-18 60% MeCN in water (0.1% TFA) to 80% MeOH in water (0.1% TFA) over 30 minutes 1.5 mL/min

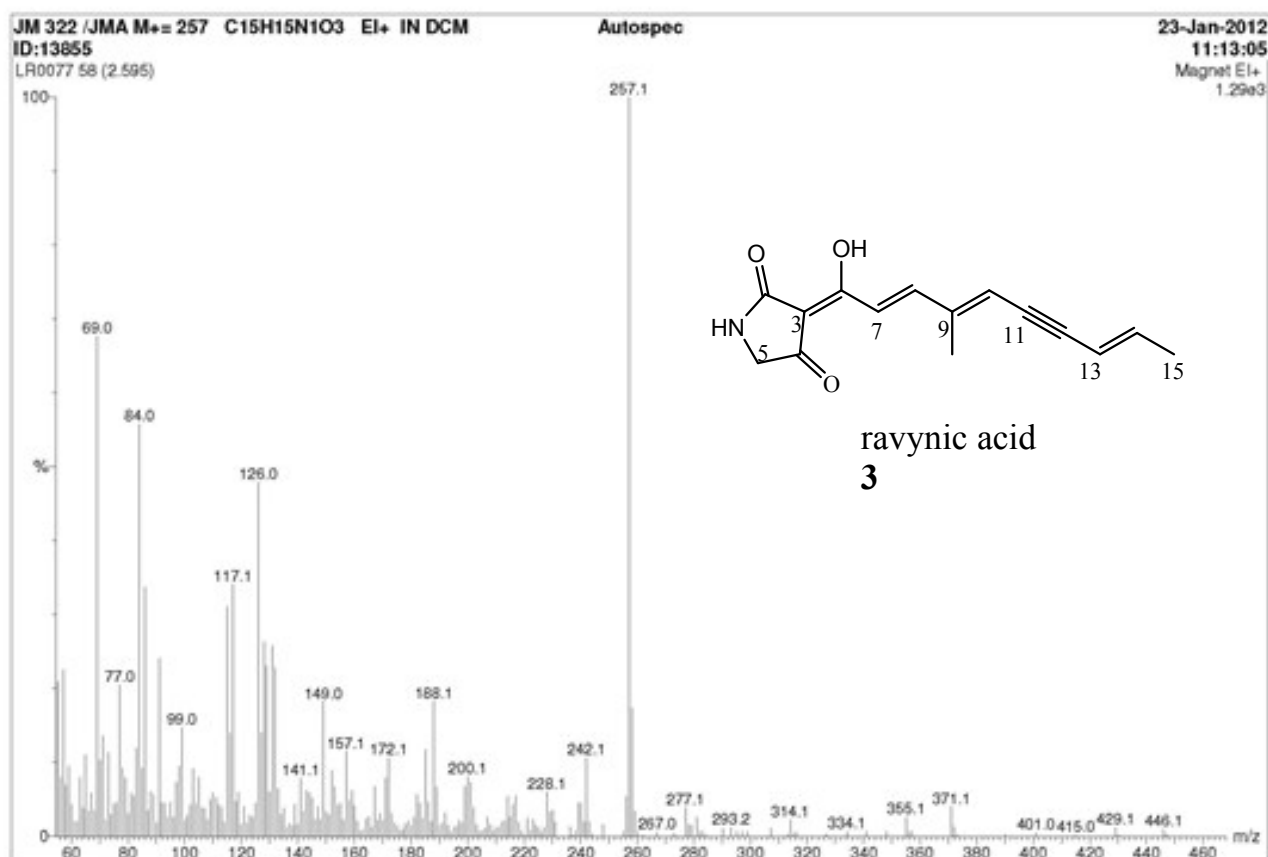


Compound 2 HPLC

C-18 60% MeCN in water (0.1% TFA) to 80% MeOH in water (0.1% TFA) over 30 minutes 1.5 mL/min



EI-Mass spectrum of ravynic acid 3



UV spectrum (from DAD) of ravynic acid 3

Print of window 42: Reference spectrum(a) + Original spectrum(a)

