

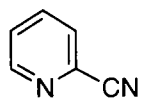
**Proton and Carbon NMR Spectra**  
**for**  
**Relative Reactivity of *anti*- and *syn*-Oximino-Carbonates and**  
**Carbamates of 2-Pyridyl Acetic Acid Esters**

Ha Young Kim, Douglas A. Lantrip and Philip L. Fuchs\*

*Department of Chemistry, Purdue University, West Lafayette, Indiana 47907*

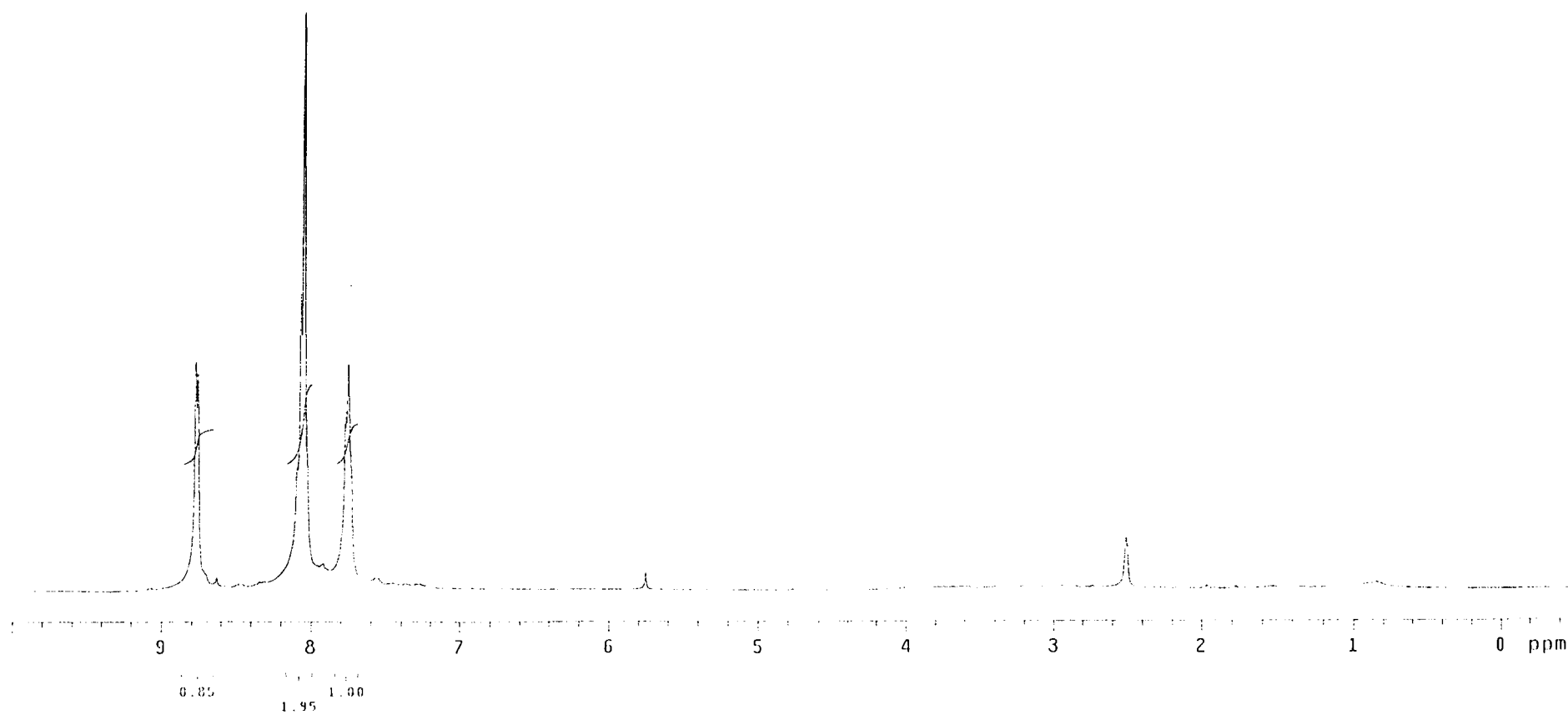
2-cyanopyridine

Pulse Sequence: s2pu1



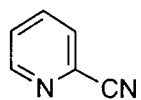
**4**

in DMSO-d<sub>6</sub>



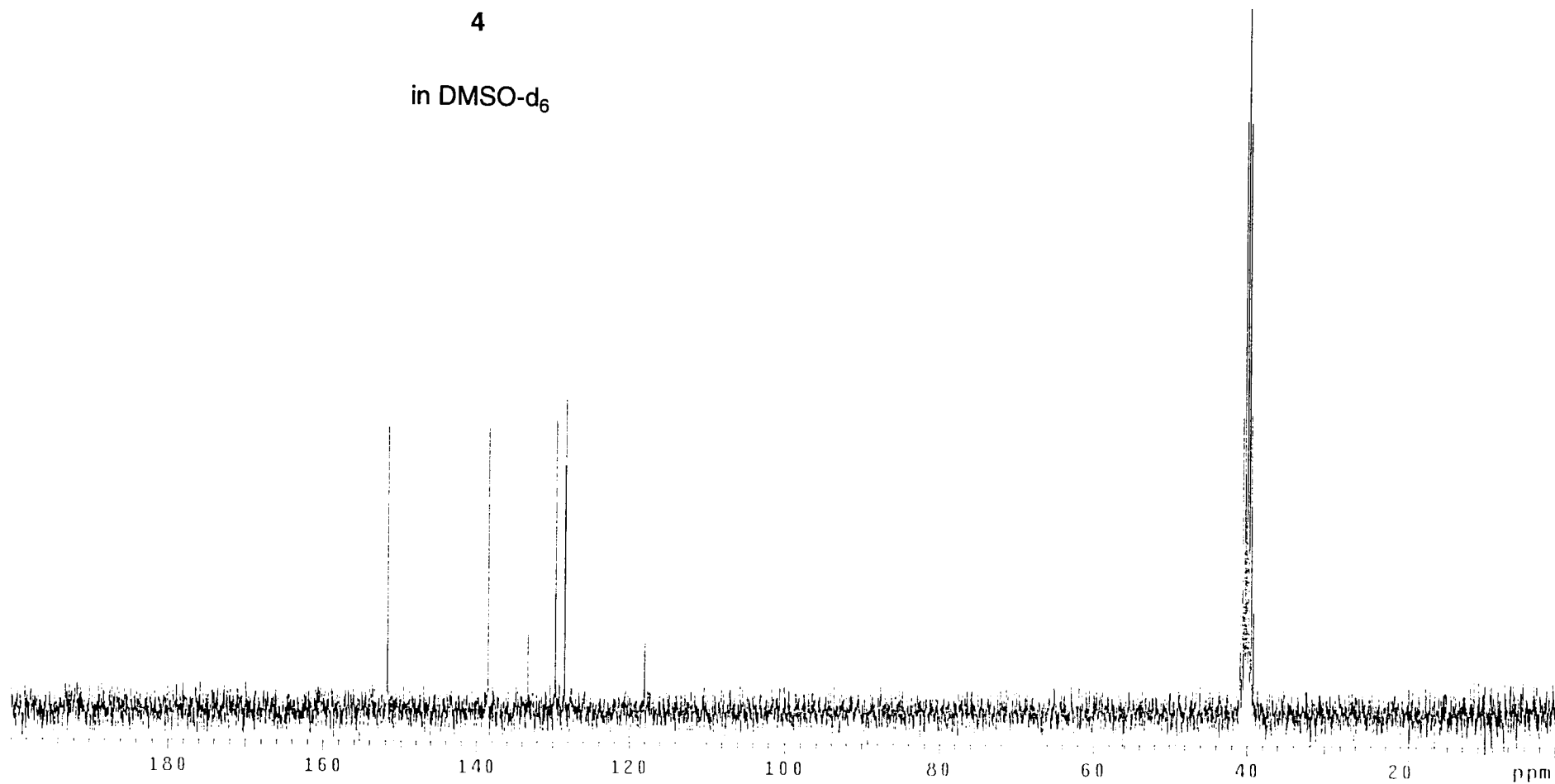
2-cyanopyridine

Pulse Sequence: zgpg30



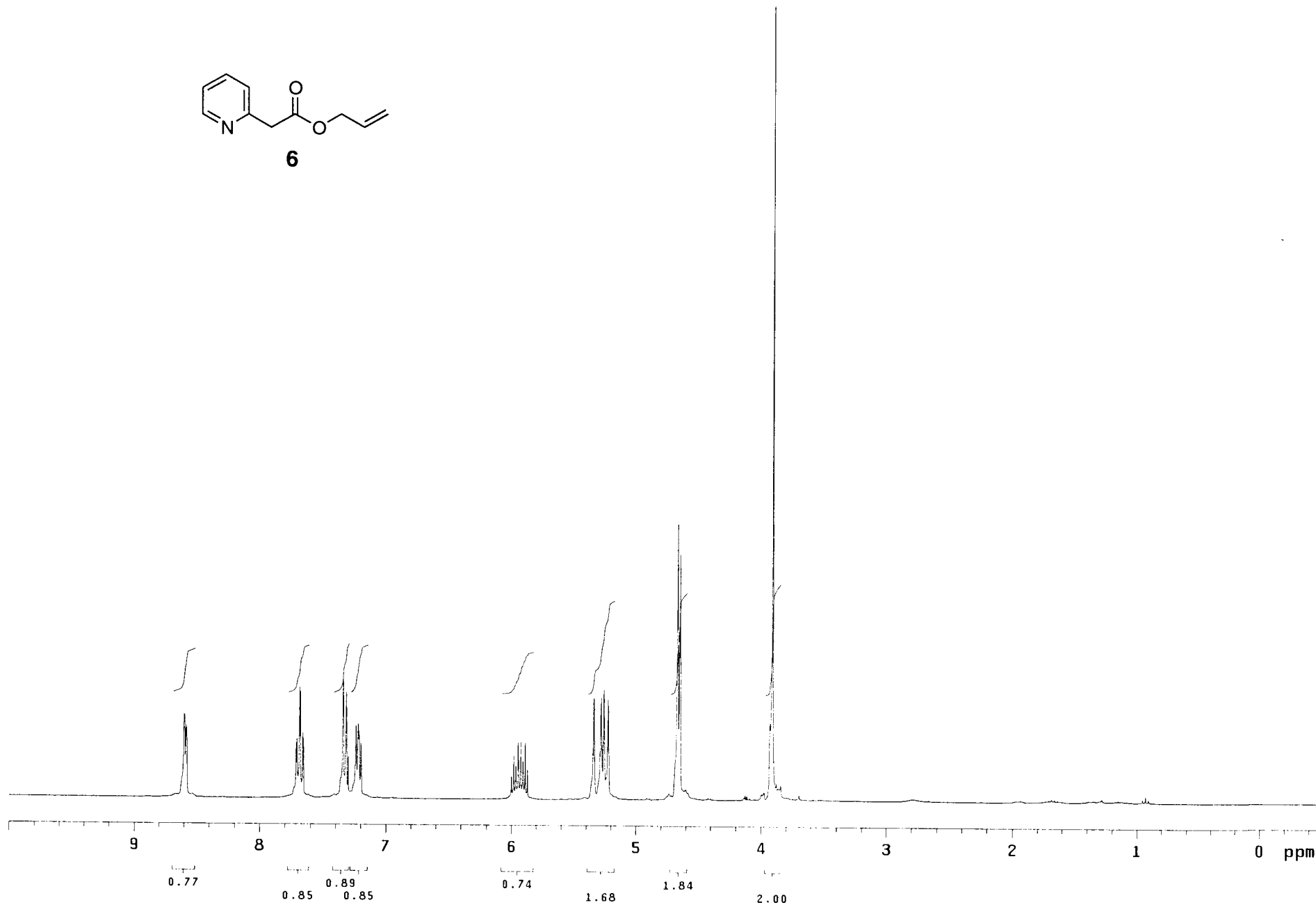
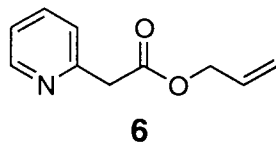
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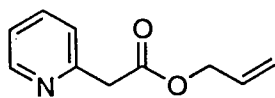
in DMSO-d<sub>6</sub>



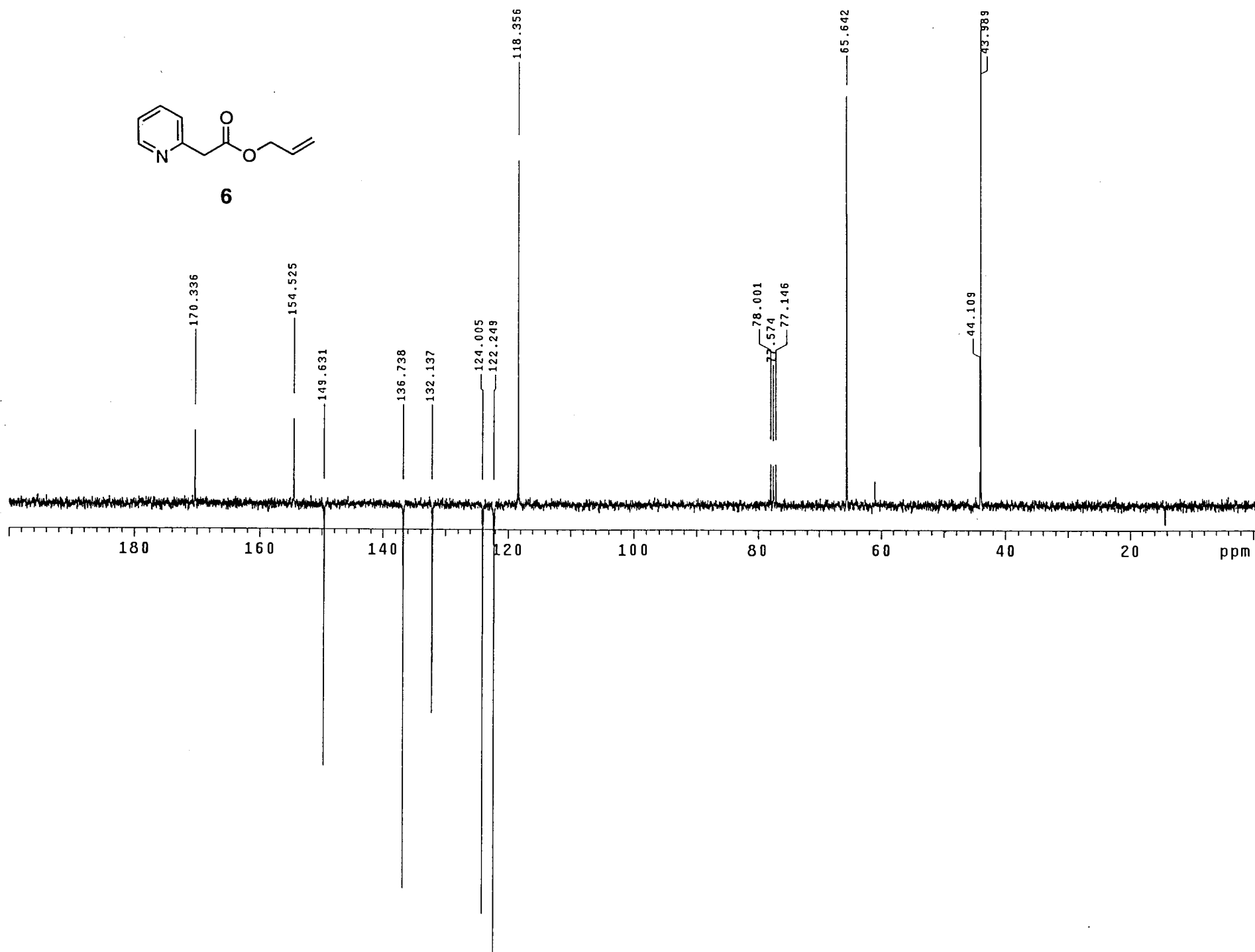
allyl ester

Pulse Sequence: s2pul



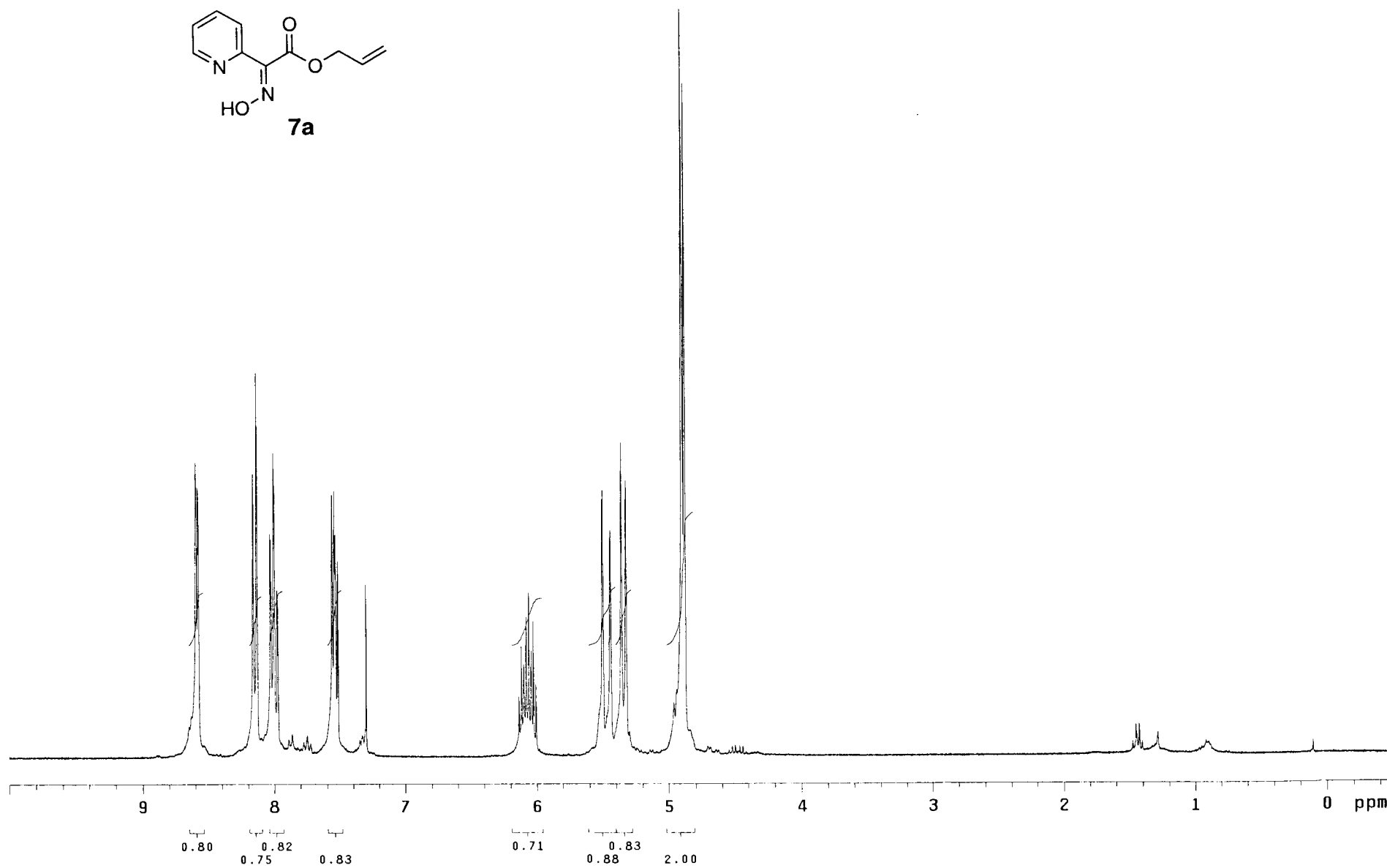
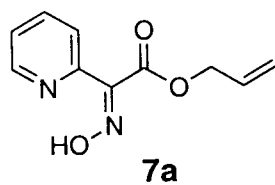


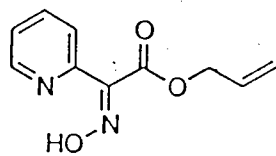
6



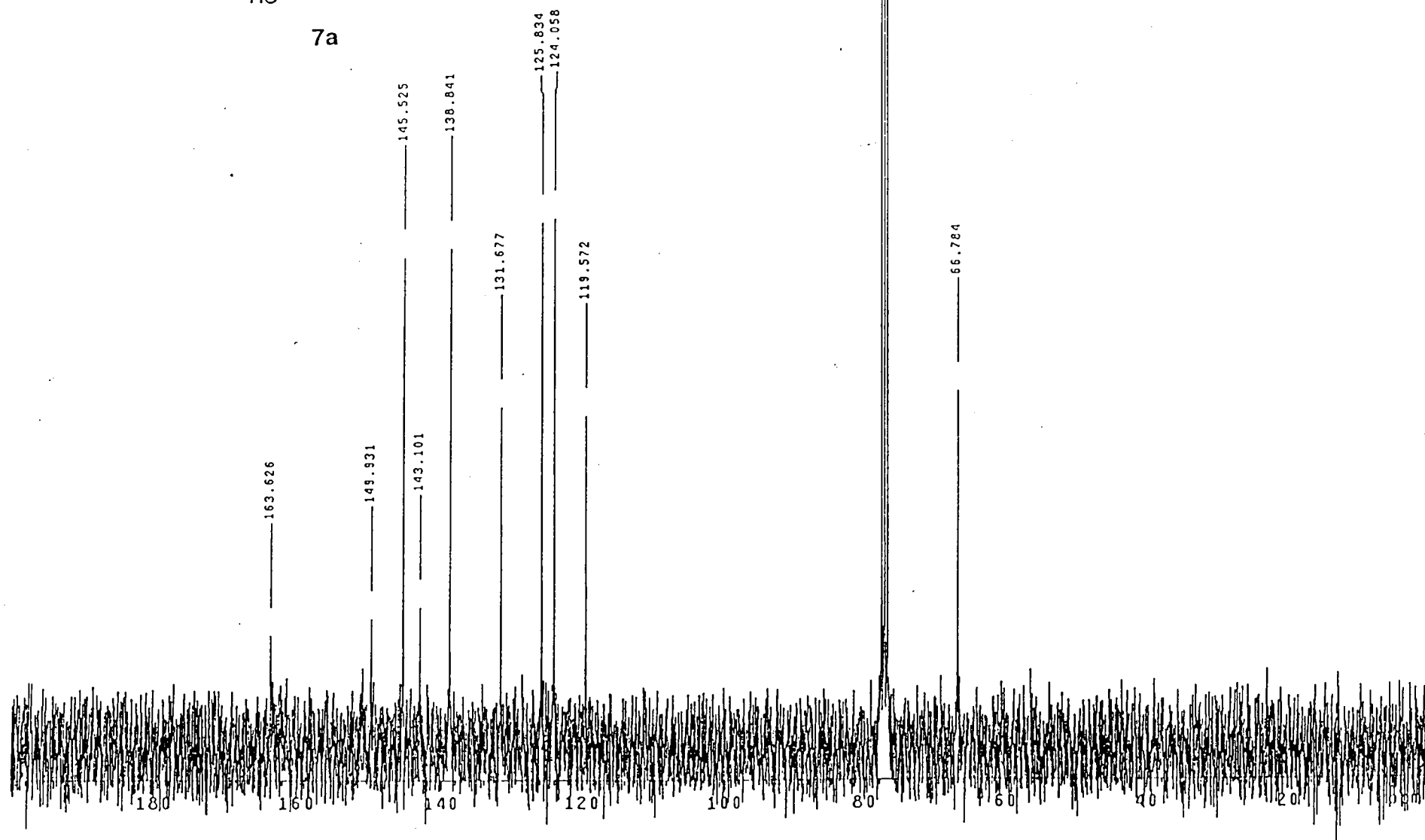
anti-oxime, allyl ester

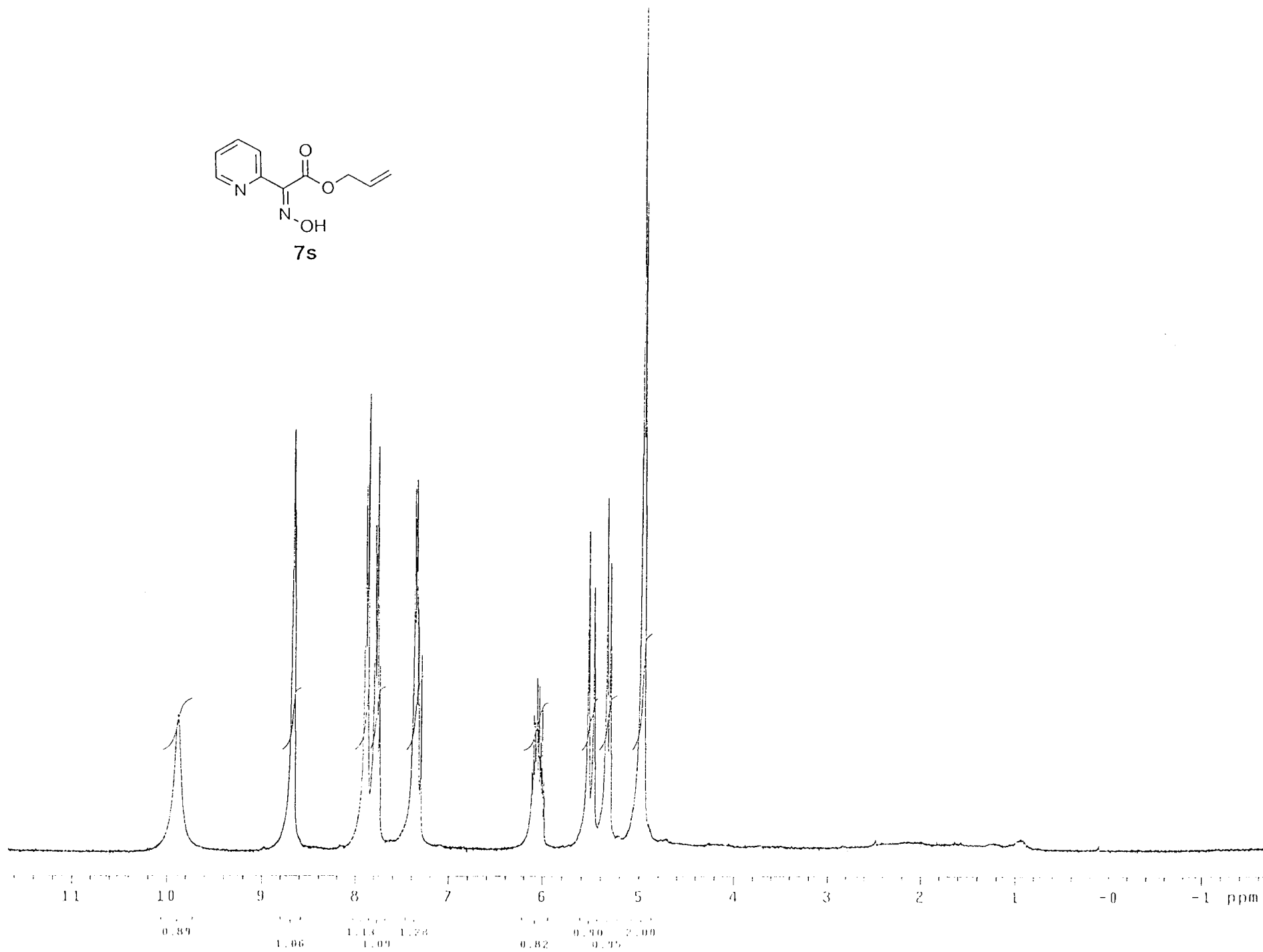
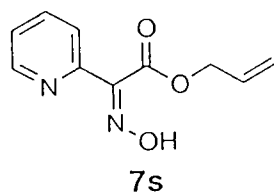
Pulse Sequence: s2pu1

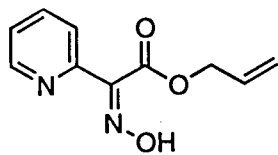




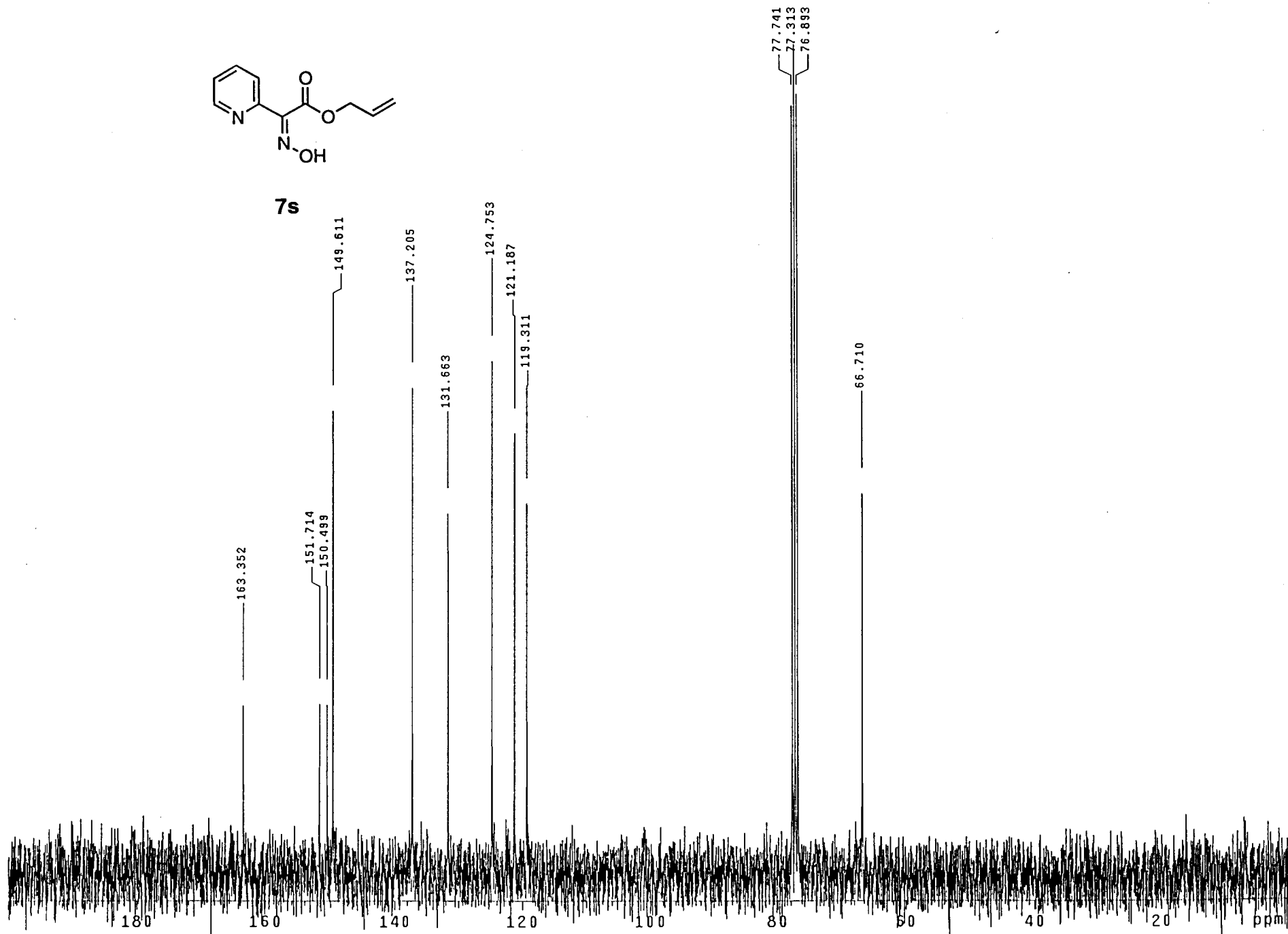
7a





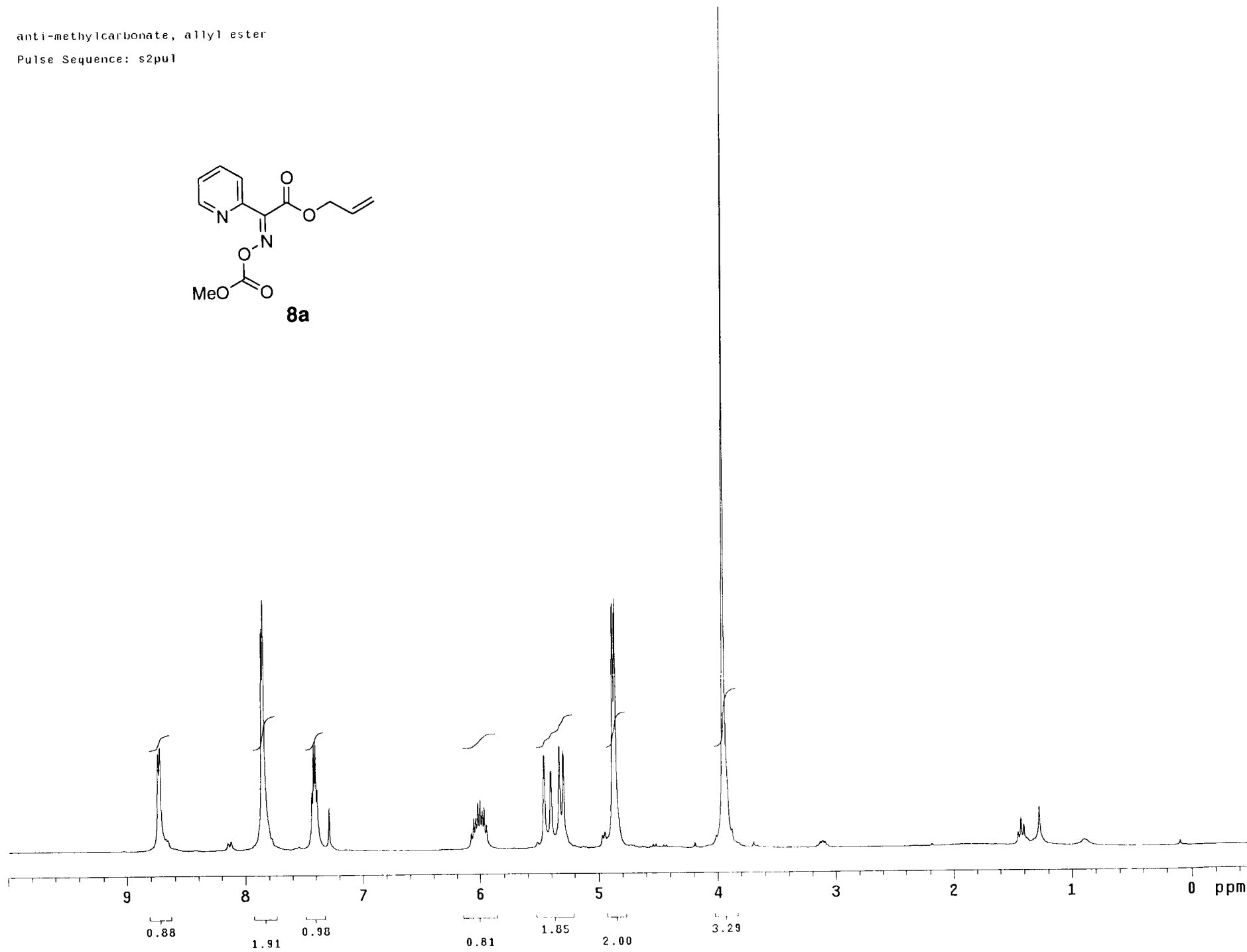
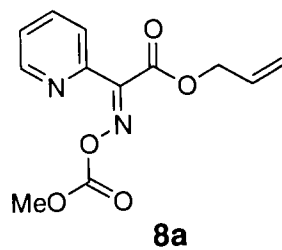


7s



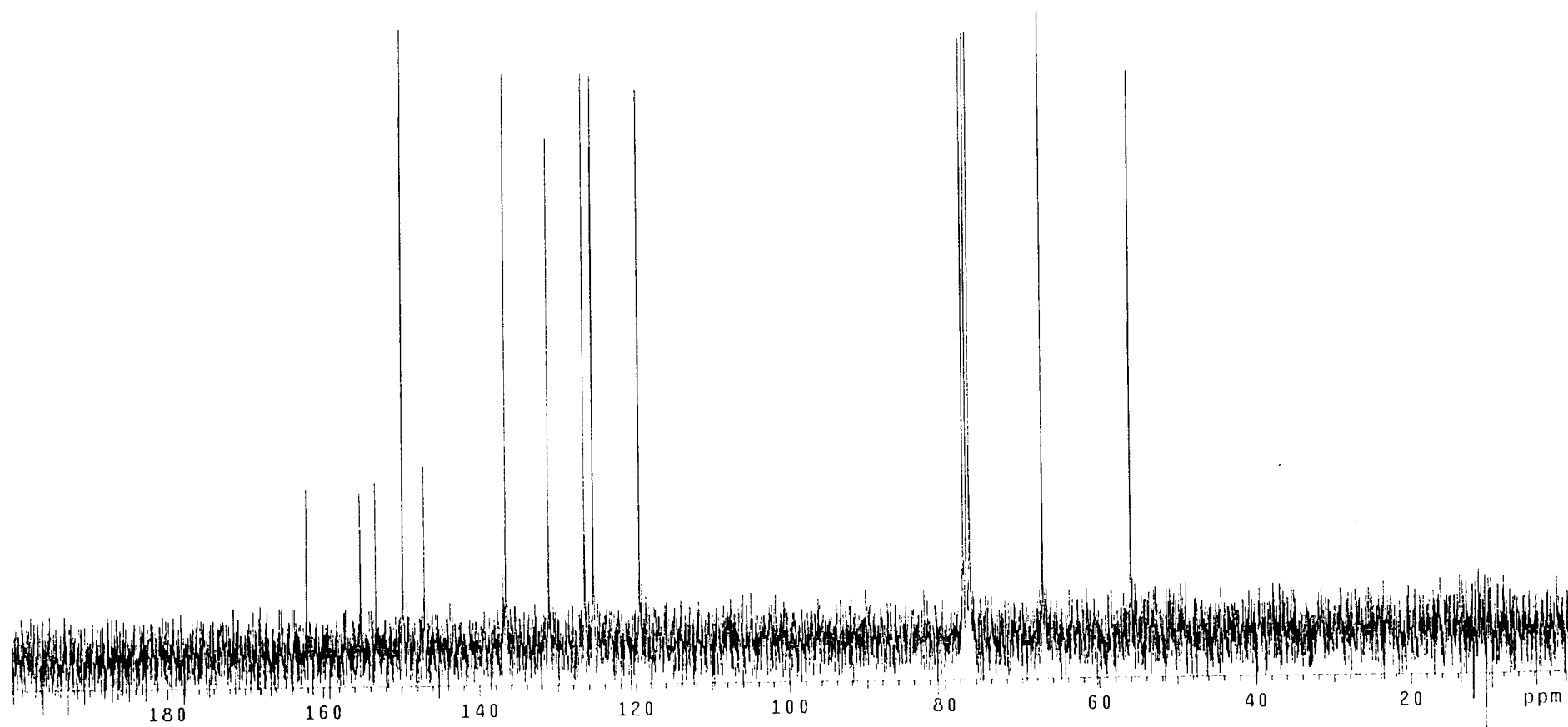
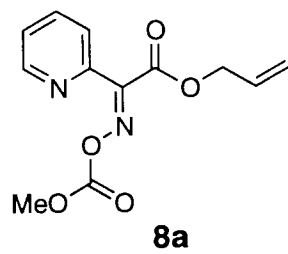
anti-methylcarbonate, allyl ester

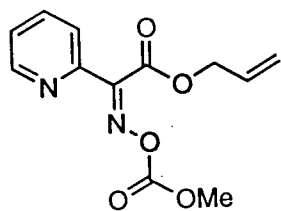
Pulse Sequence: s2pu1



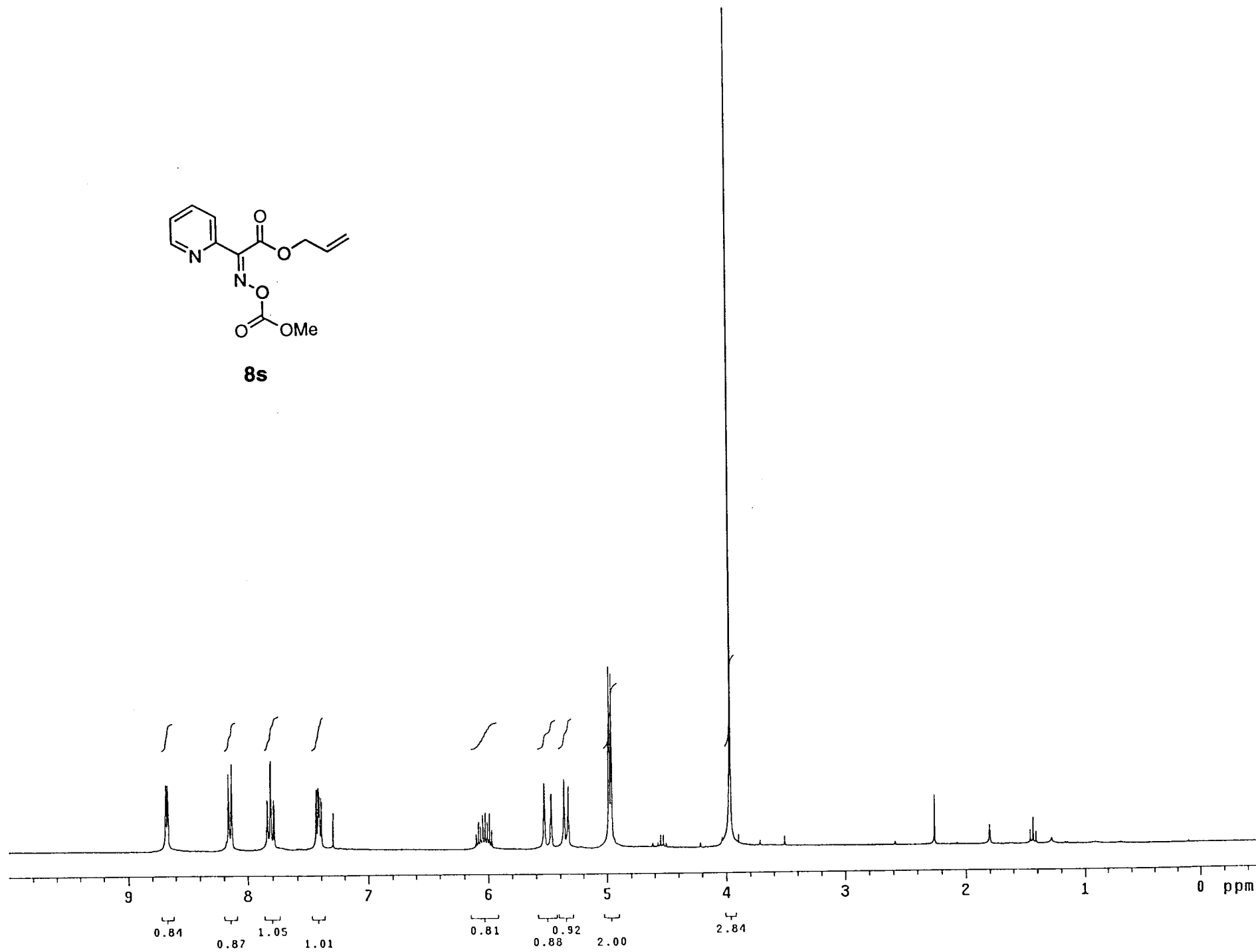
anti-methylcarbonate, allyl ester

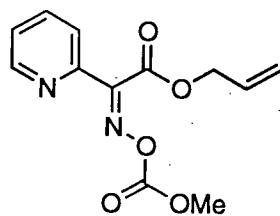
Pulse Sequence: s2pu1



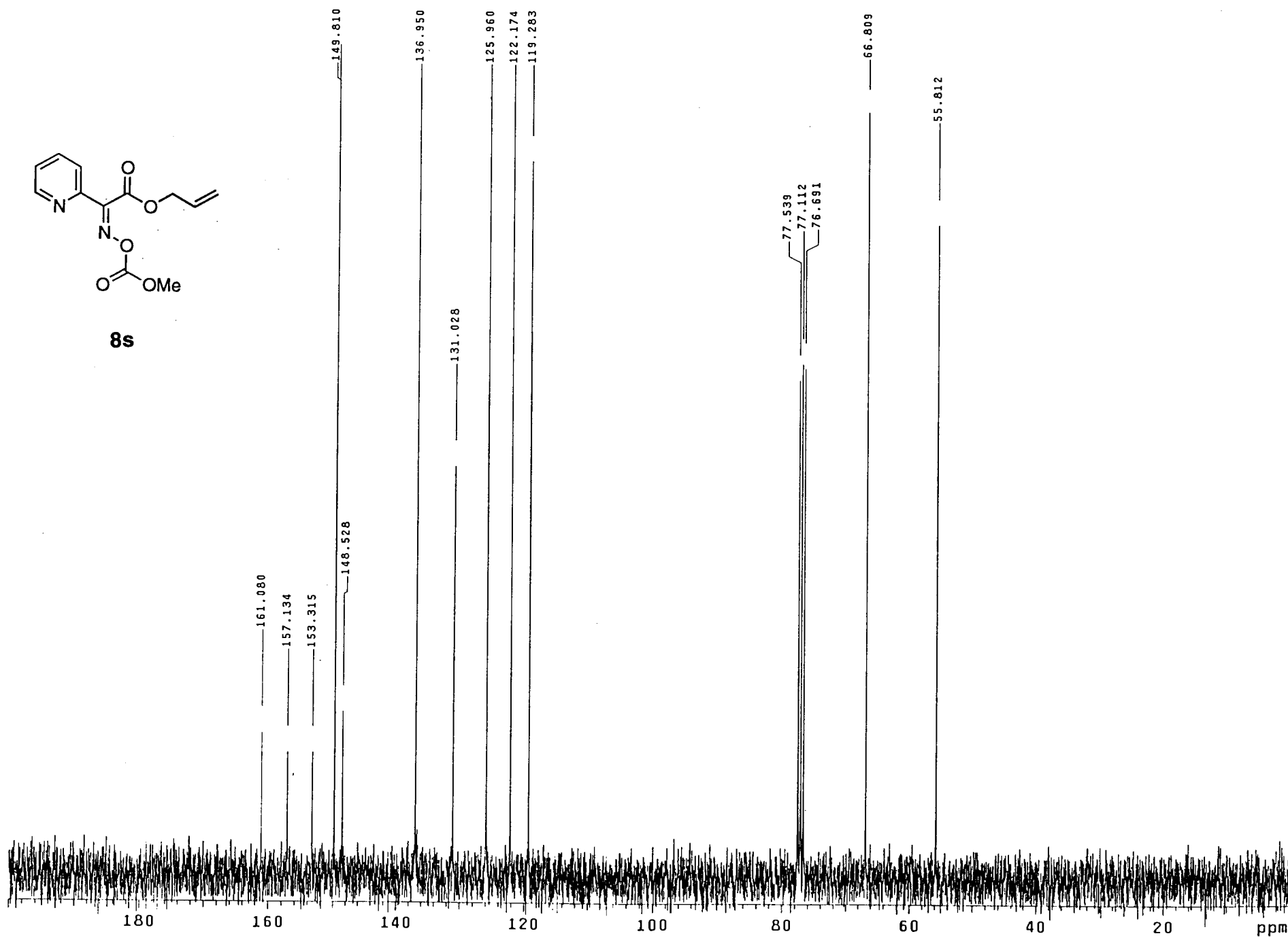


**8s**



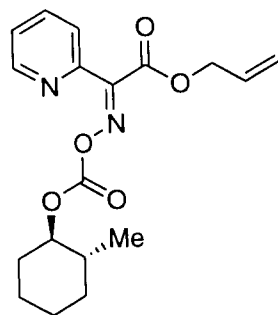


8s

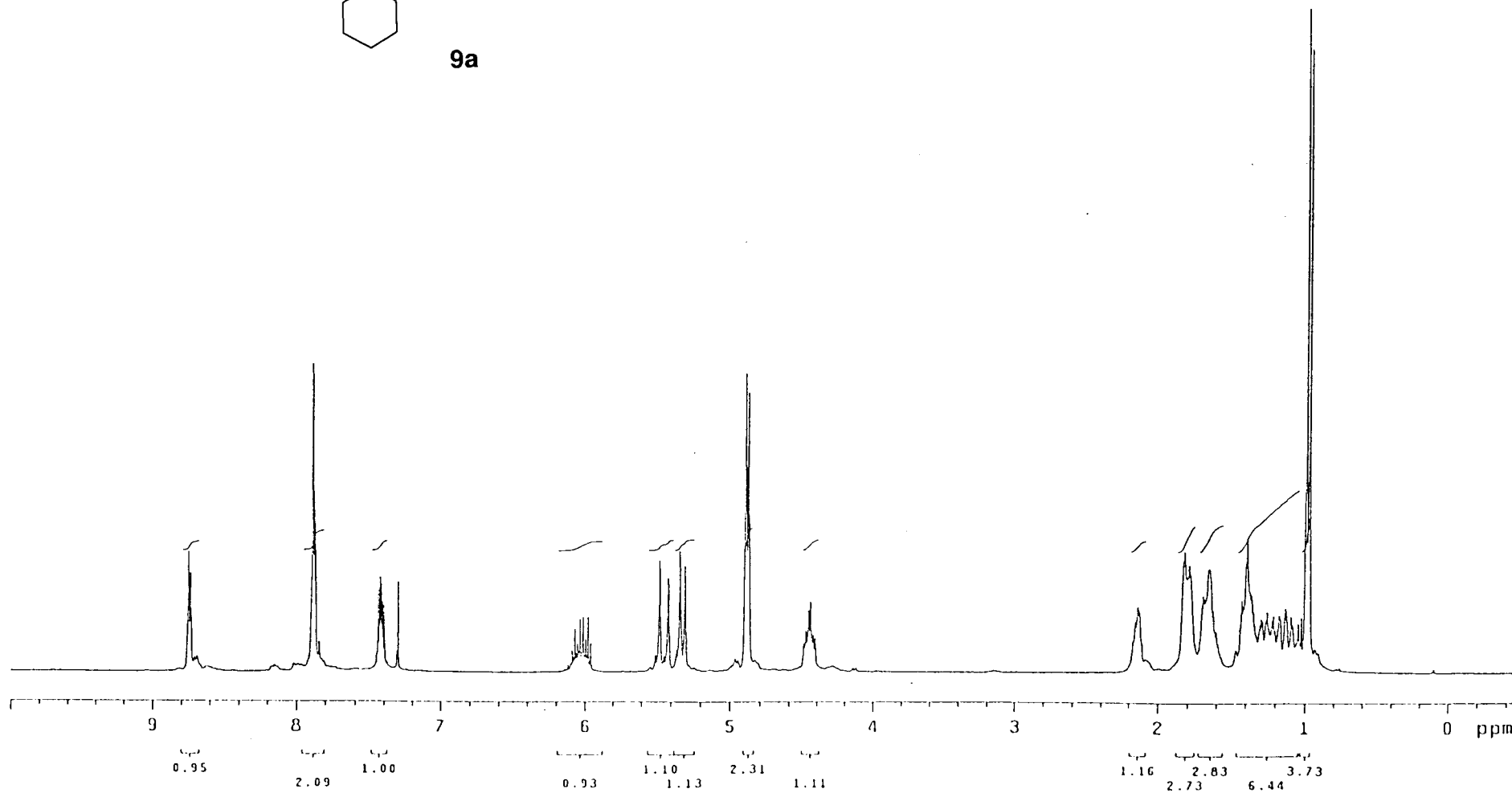


anti-oximinocarbonate, allyl ester

Pulse Sequence: zgpg30

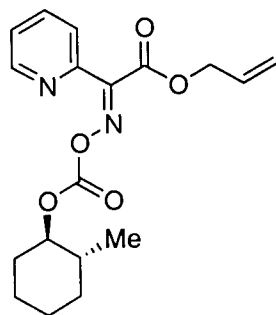


9a

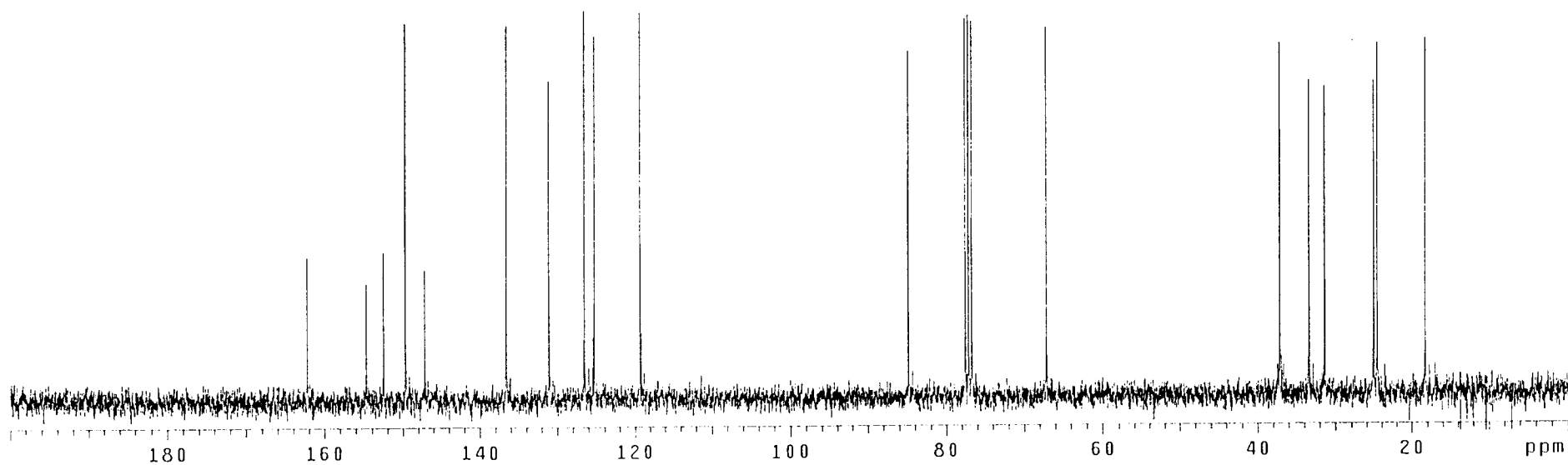


anti-oximinocarbonate, allyl ester

Pulse Sequence: s2pul

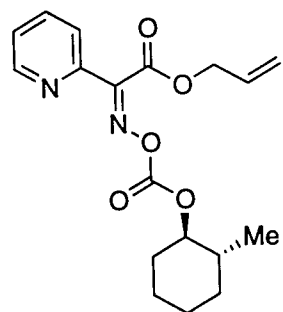


9a

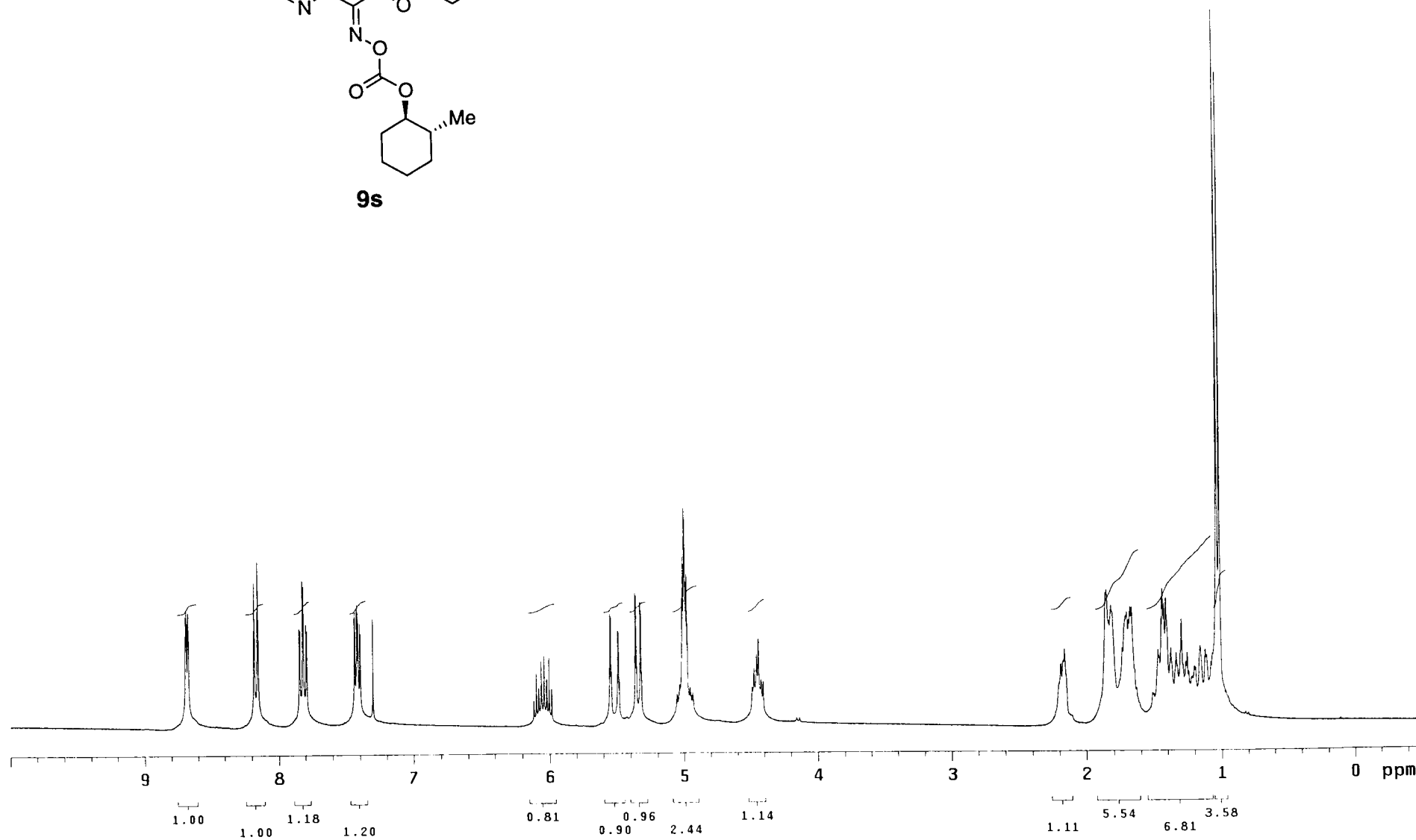


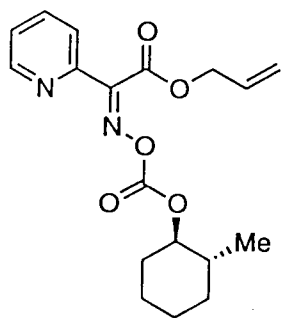
syn-carbonate, allyl ester

Pulse Sequence: s2pul

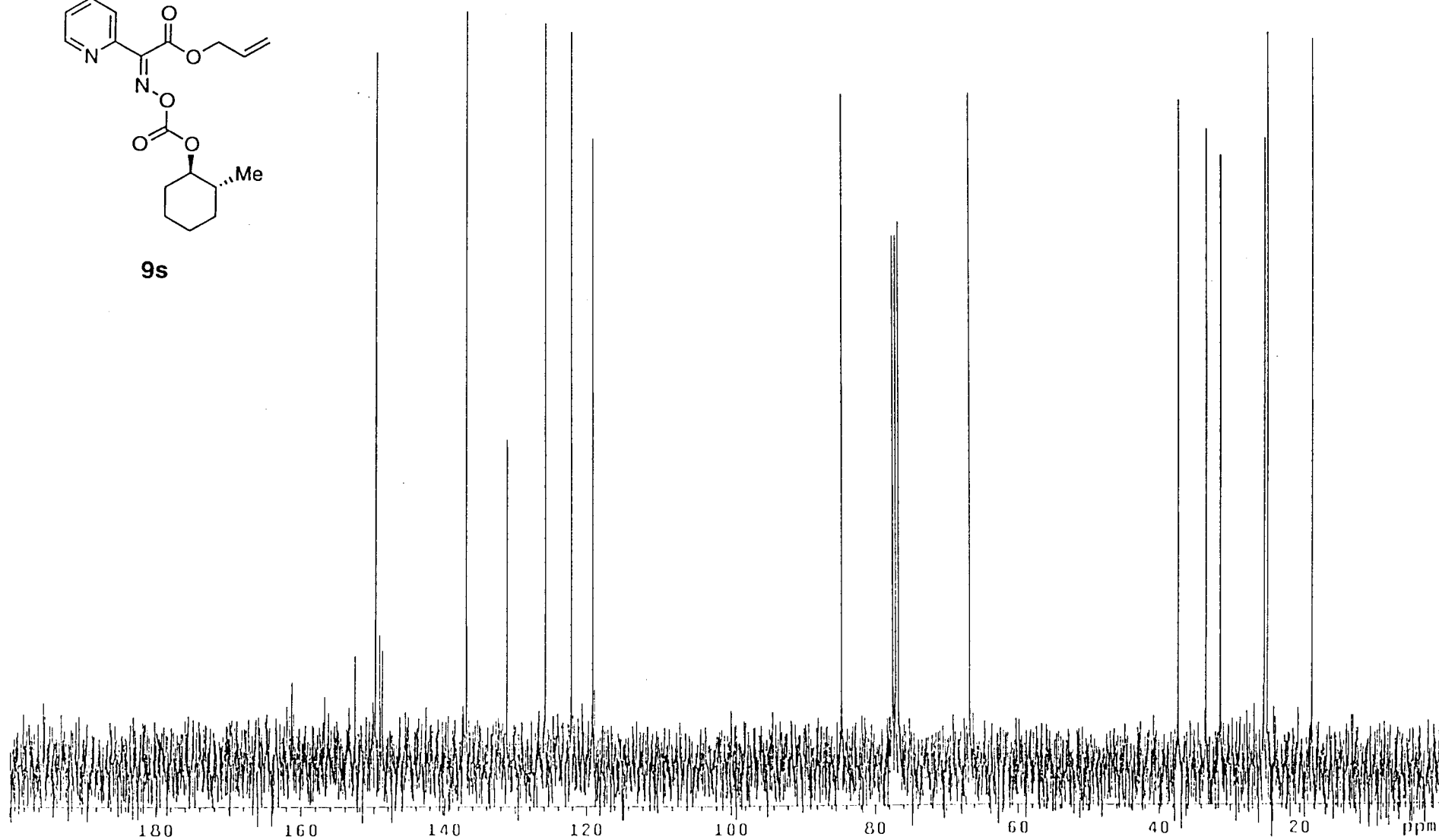


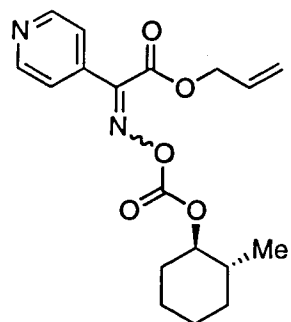
**9s**



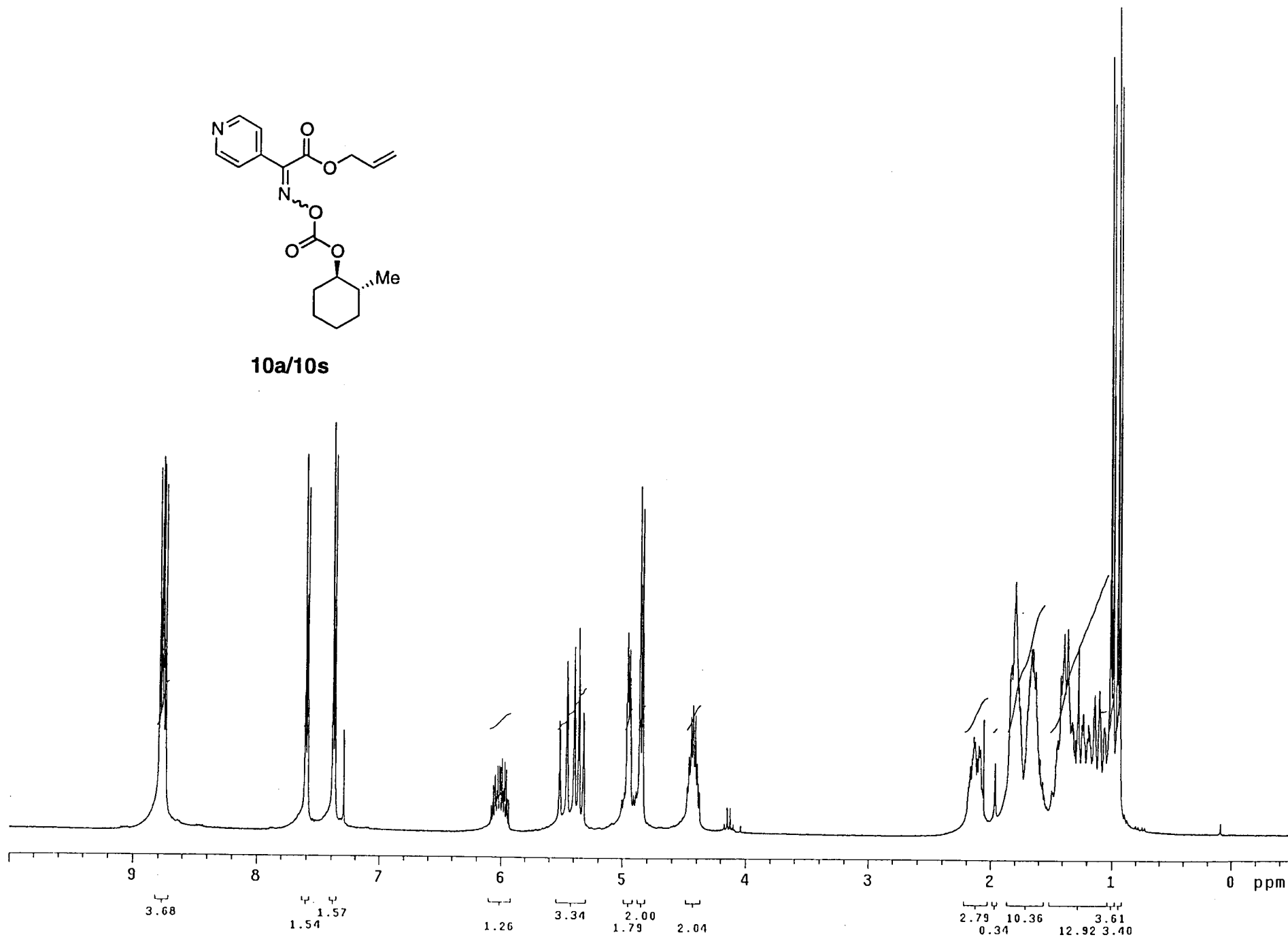


9s



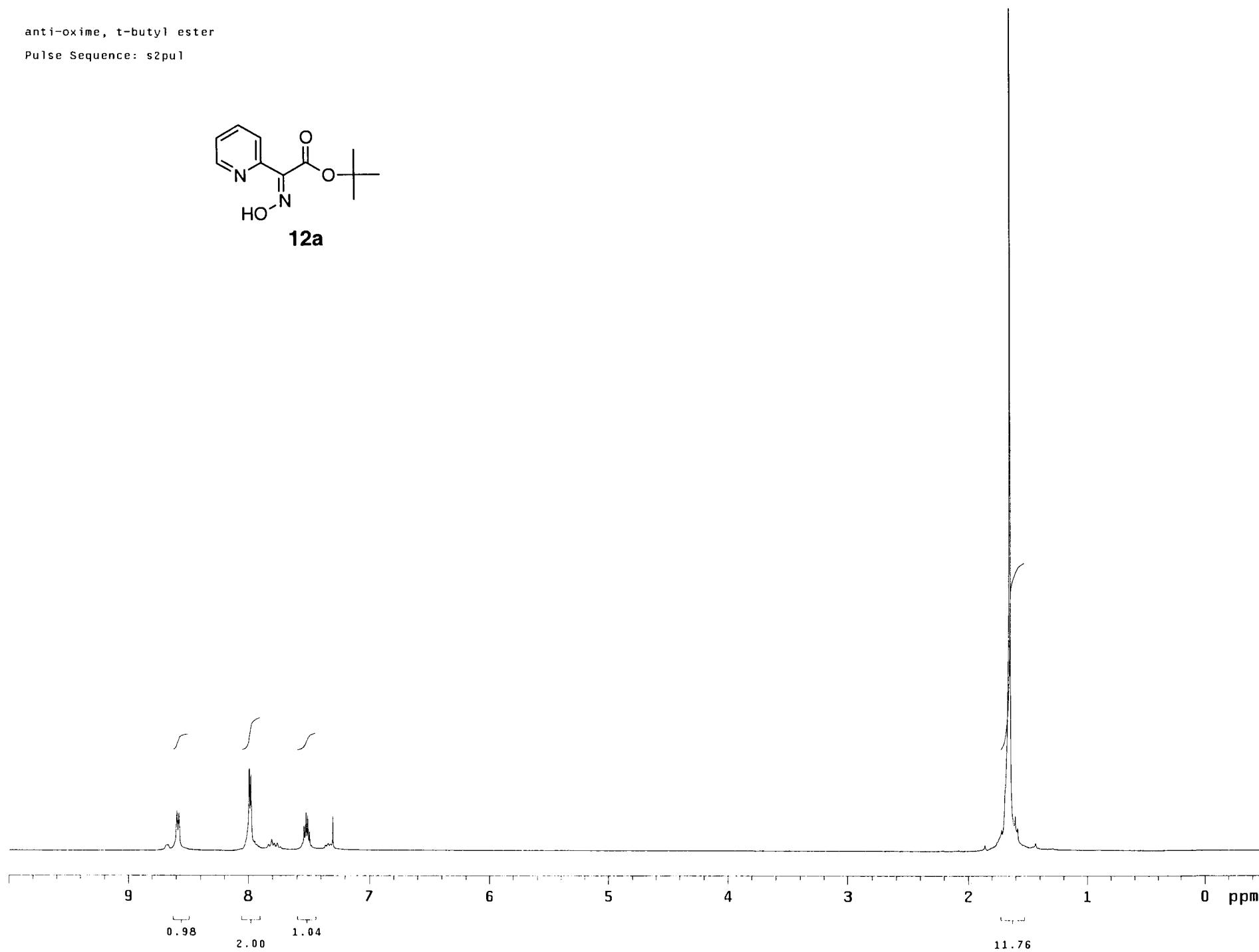
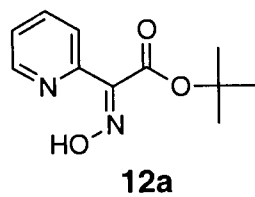


**10a/10s**



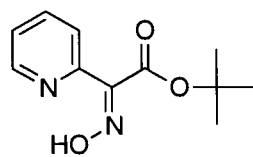
anti-oxime, t-butyl ester

Pulse Sequence: s2pu1

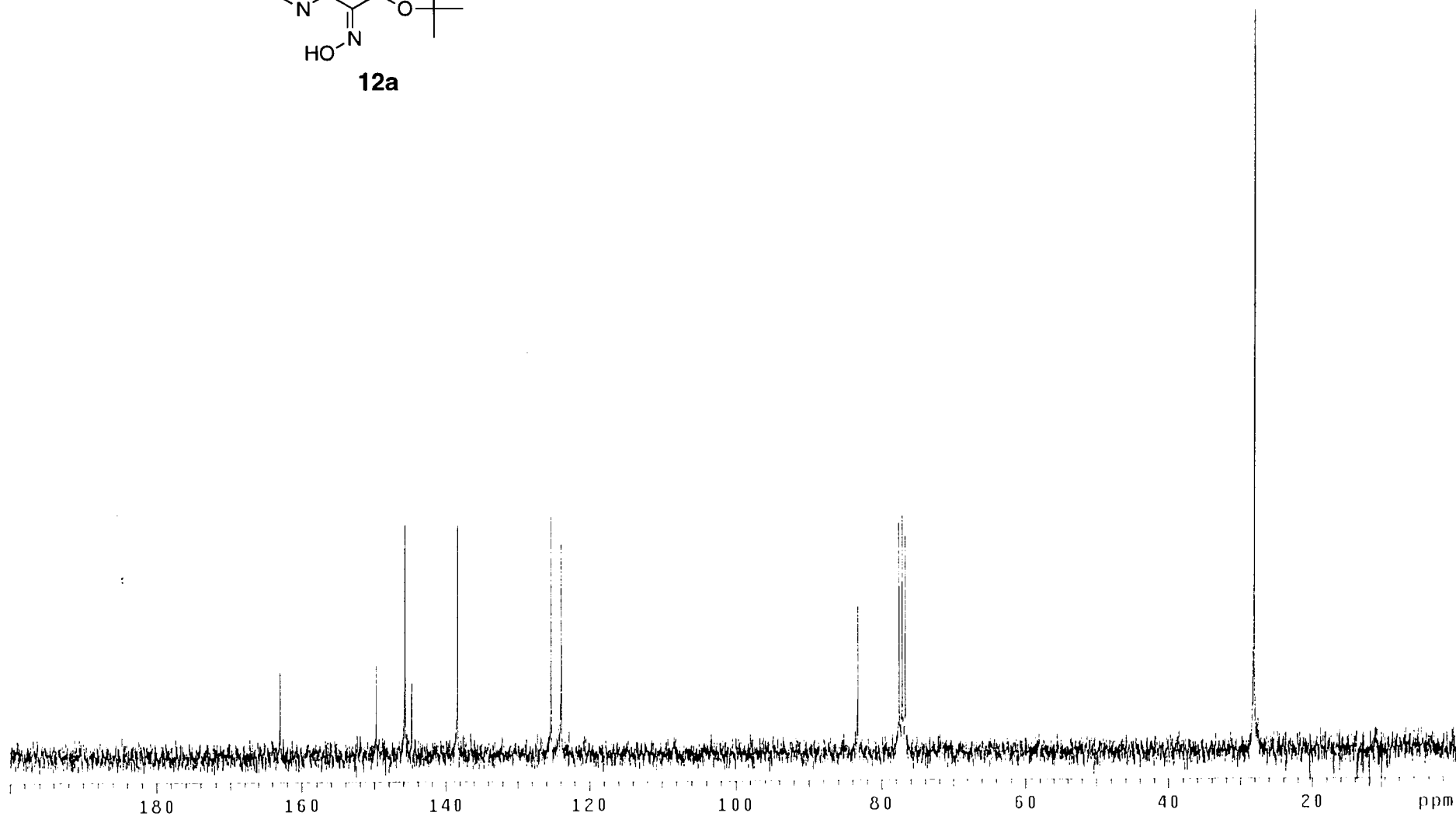


anti-oxime, t-butyl ester

Pulse Sequence: s2pul

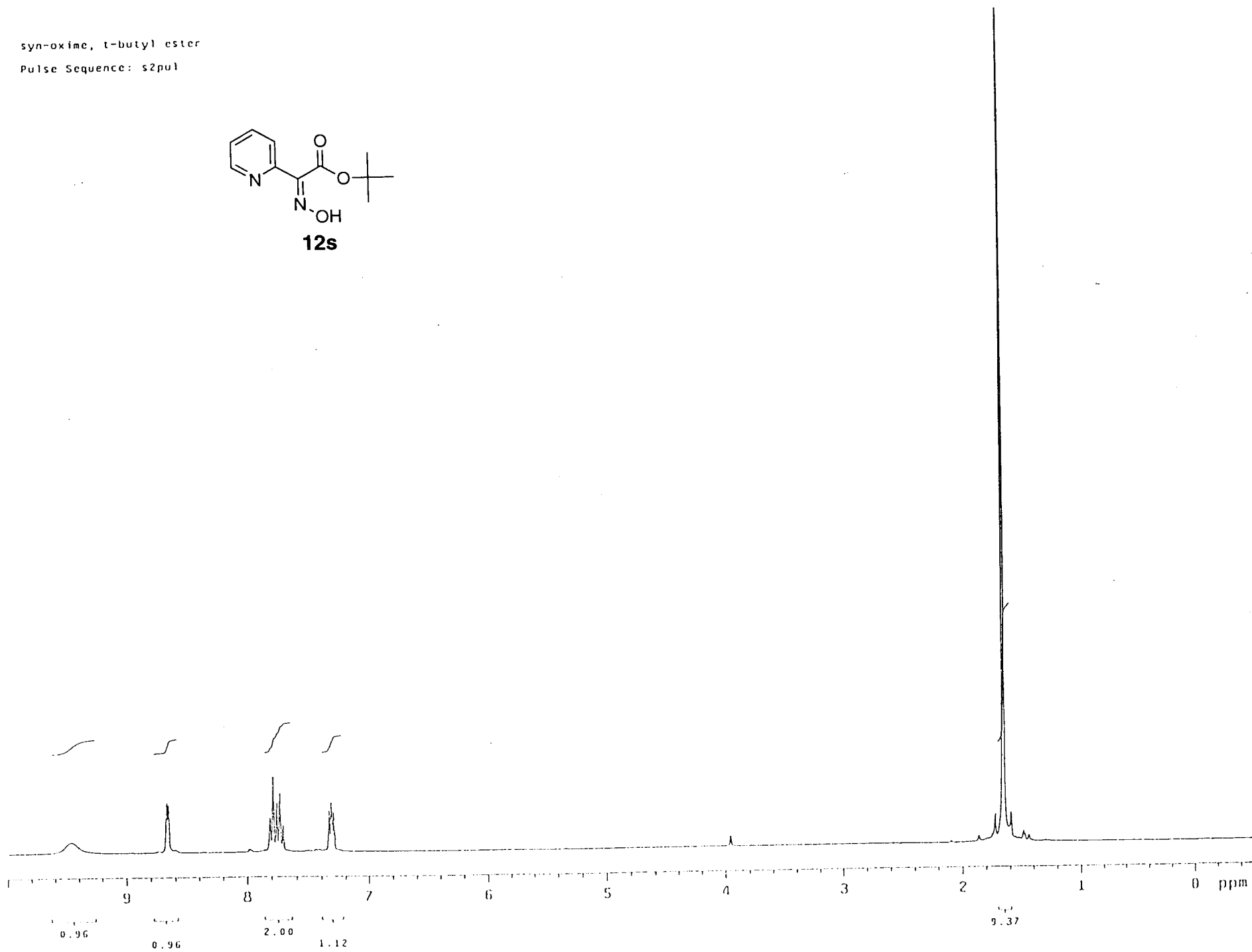
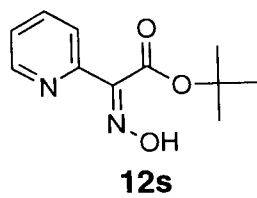


**12a**



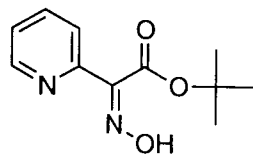
syn-oxime, t-butyl ester

Pulse Sequence: s2pul

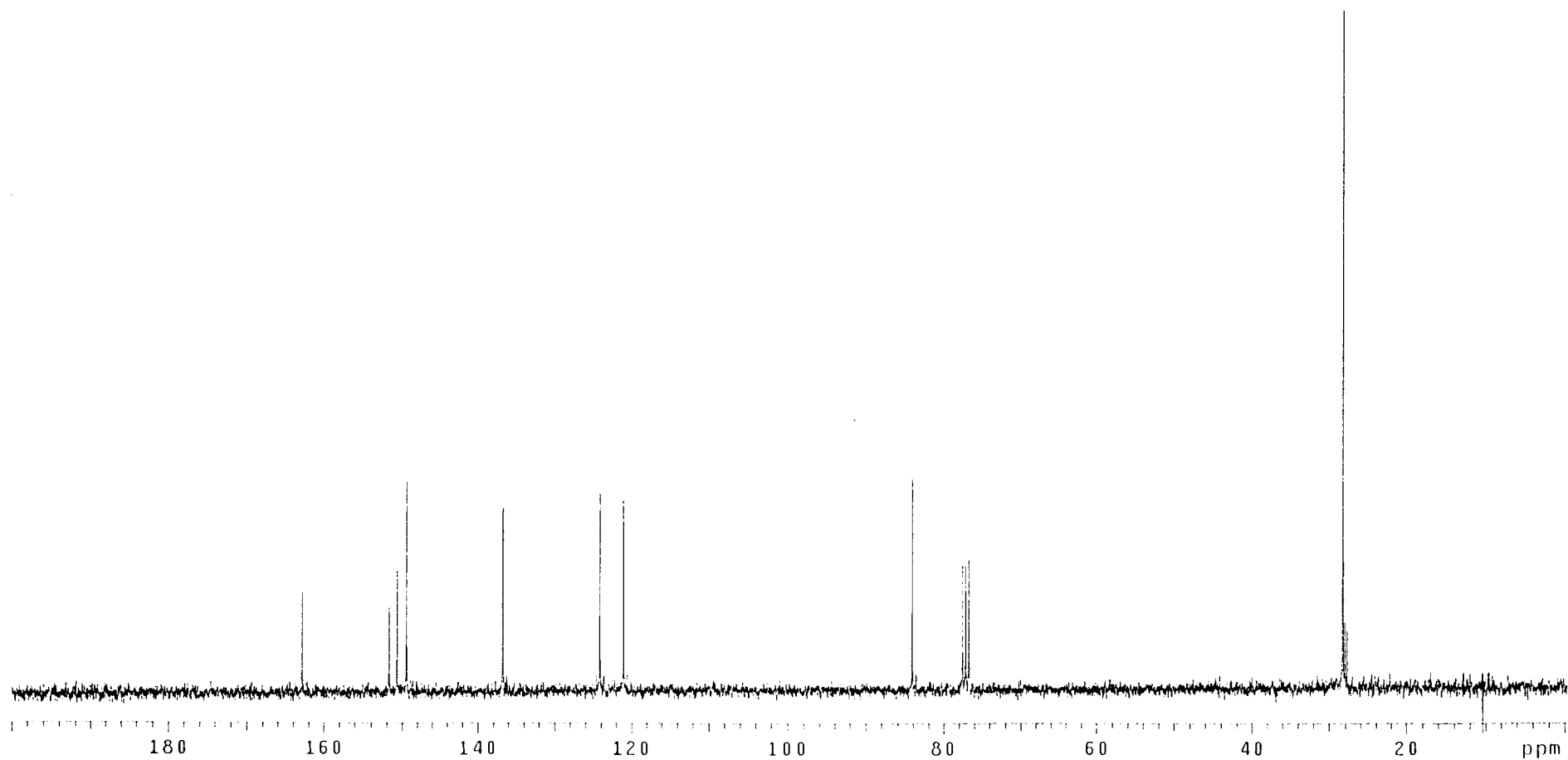


syn-oxime, t-butyl ester

Pulse Sequence: s2pul

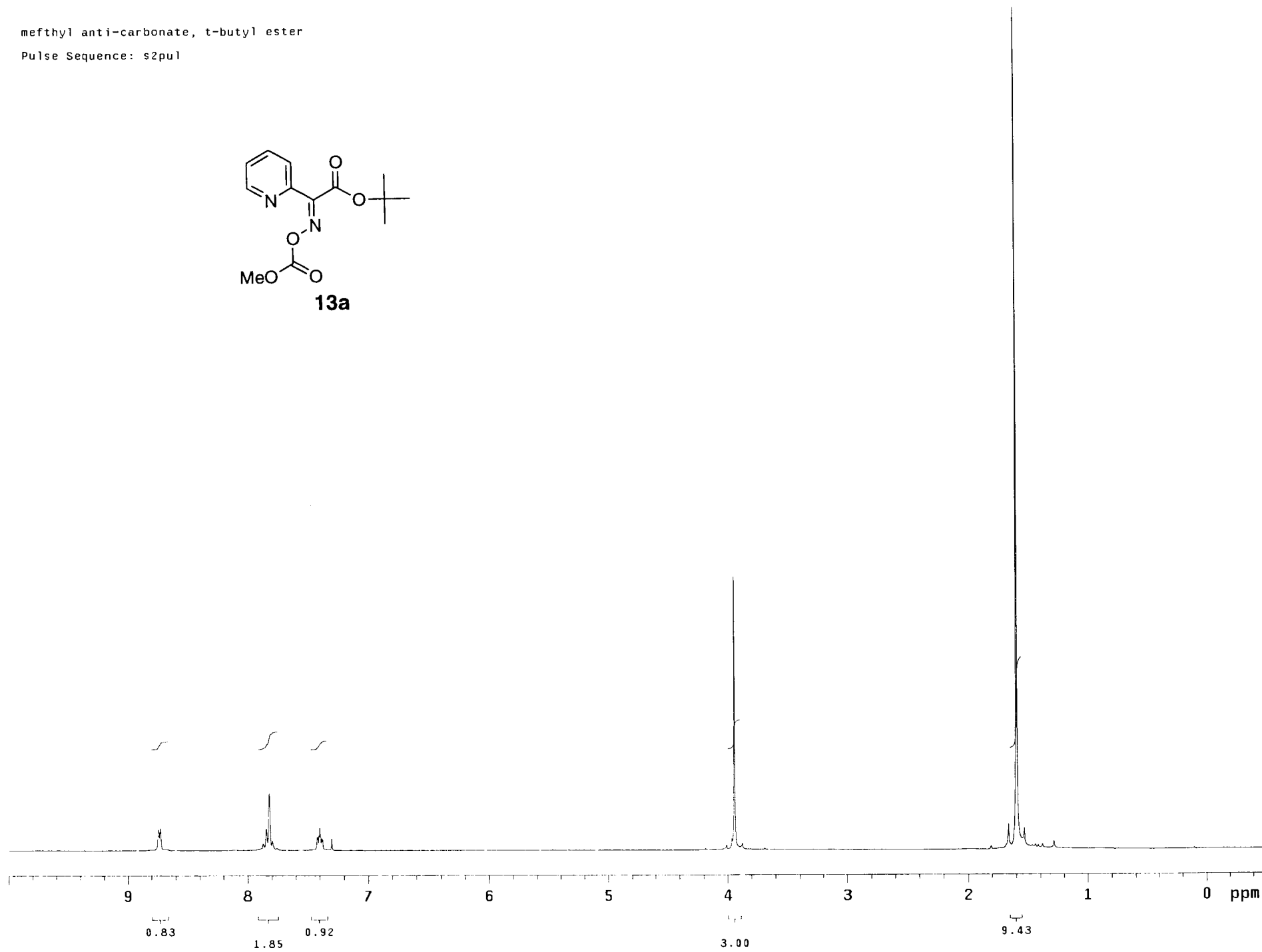
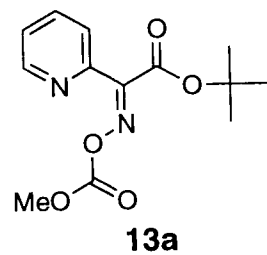


**12s**



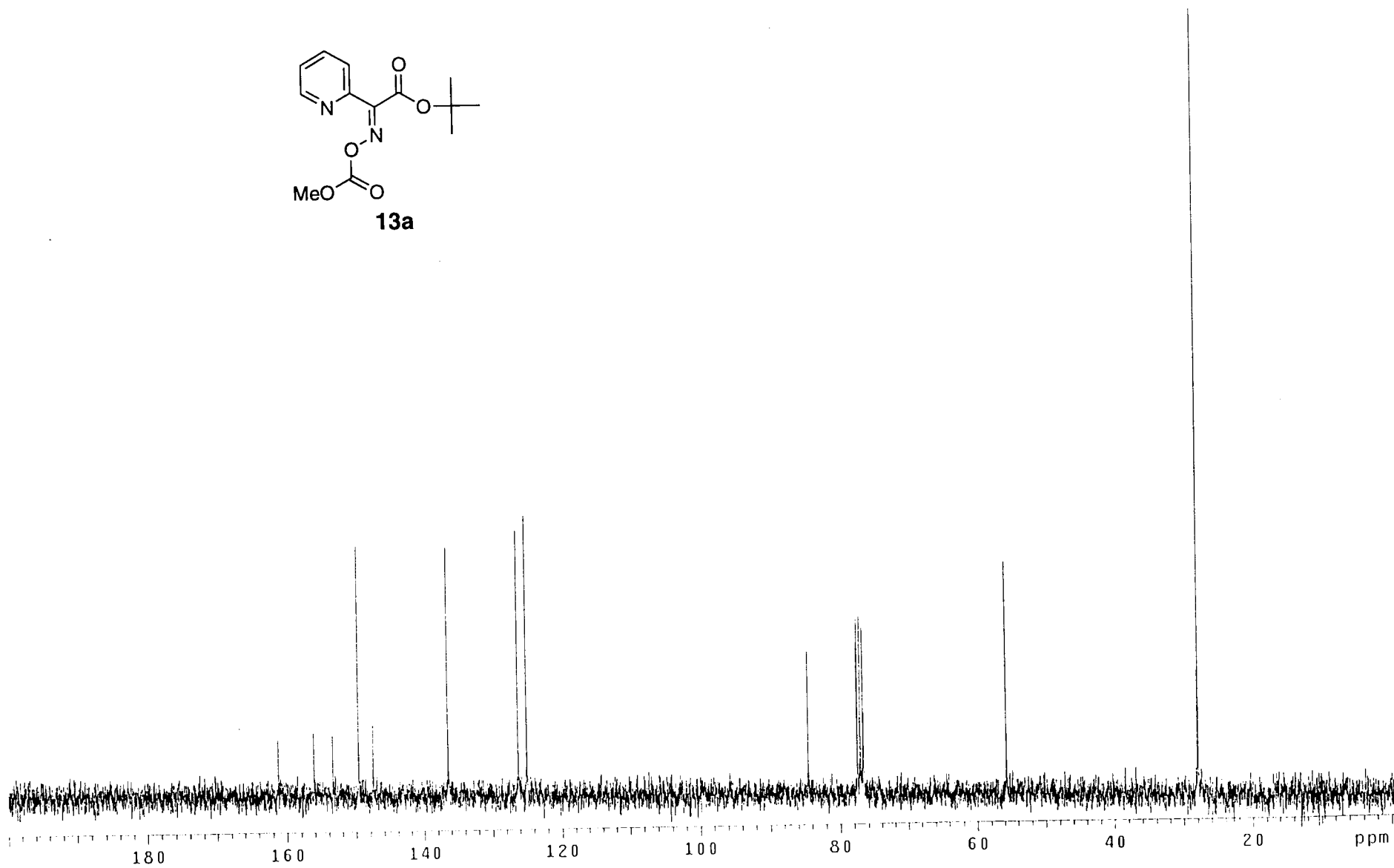
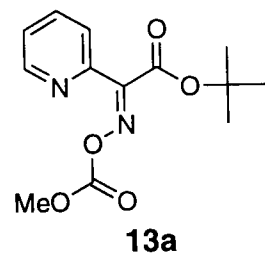
mefthyl anti-carbonate, t-butyl ester

Pulse Sequence: s2pul



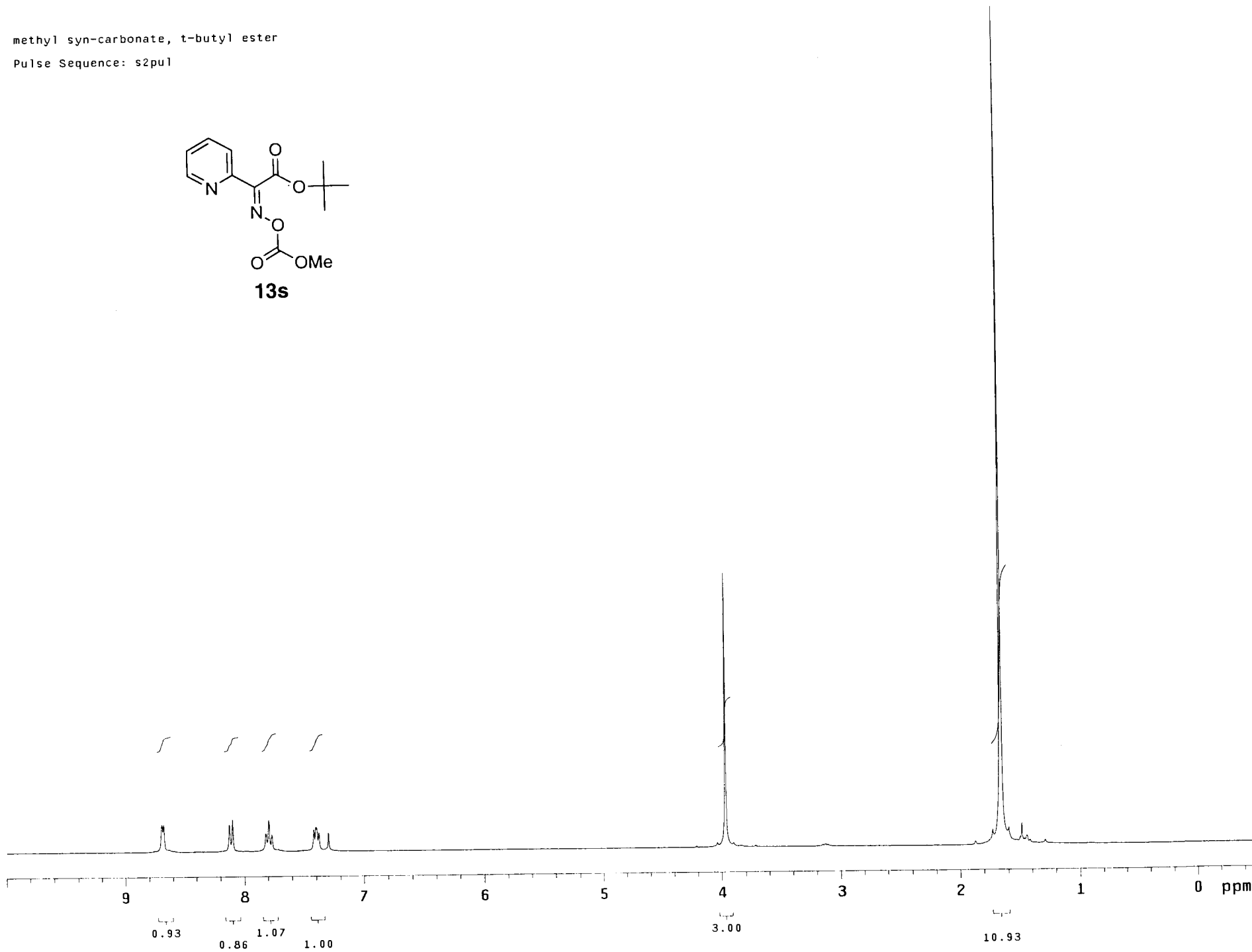
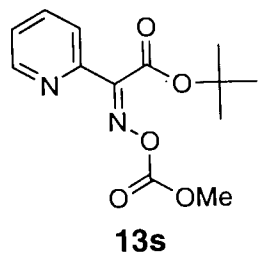
methyl anti-carbonate, t-butyl ester

Pulse Sequence: s2pul1



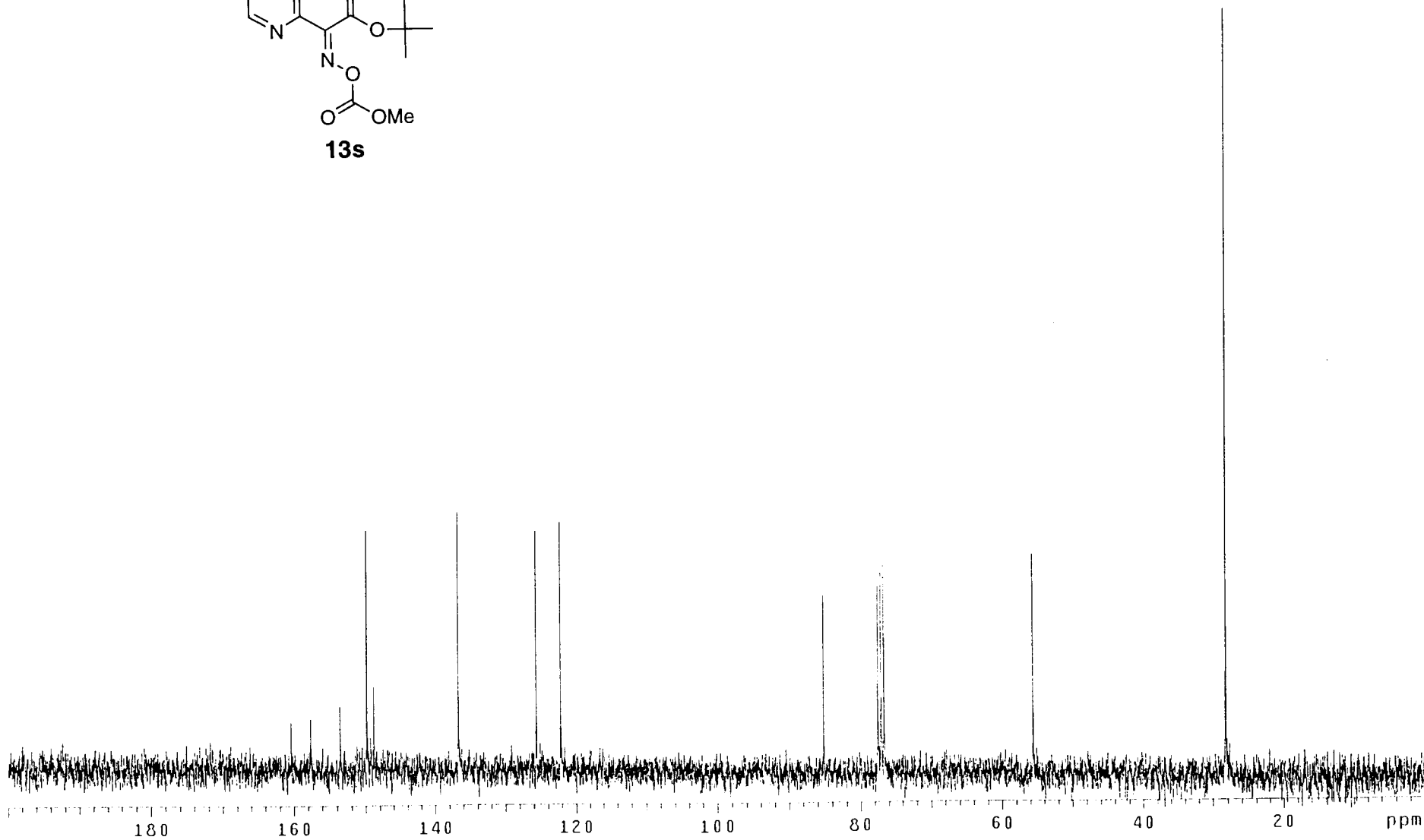
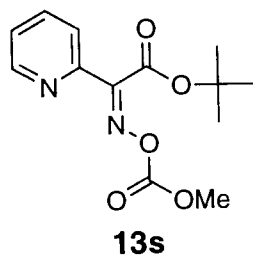
methyl syn-carbonate, t-butyl ester

Pulse Sequence: s2pul



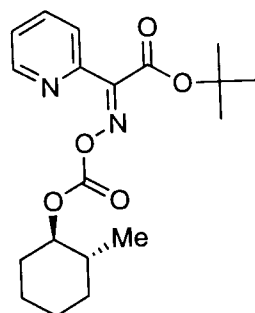
methyl syn-carbonate, t-butyl ester

Pulse Sequence: s2pu1

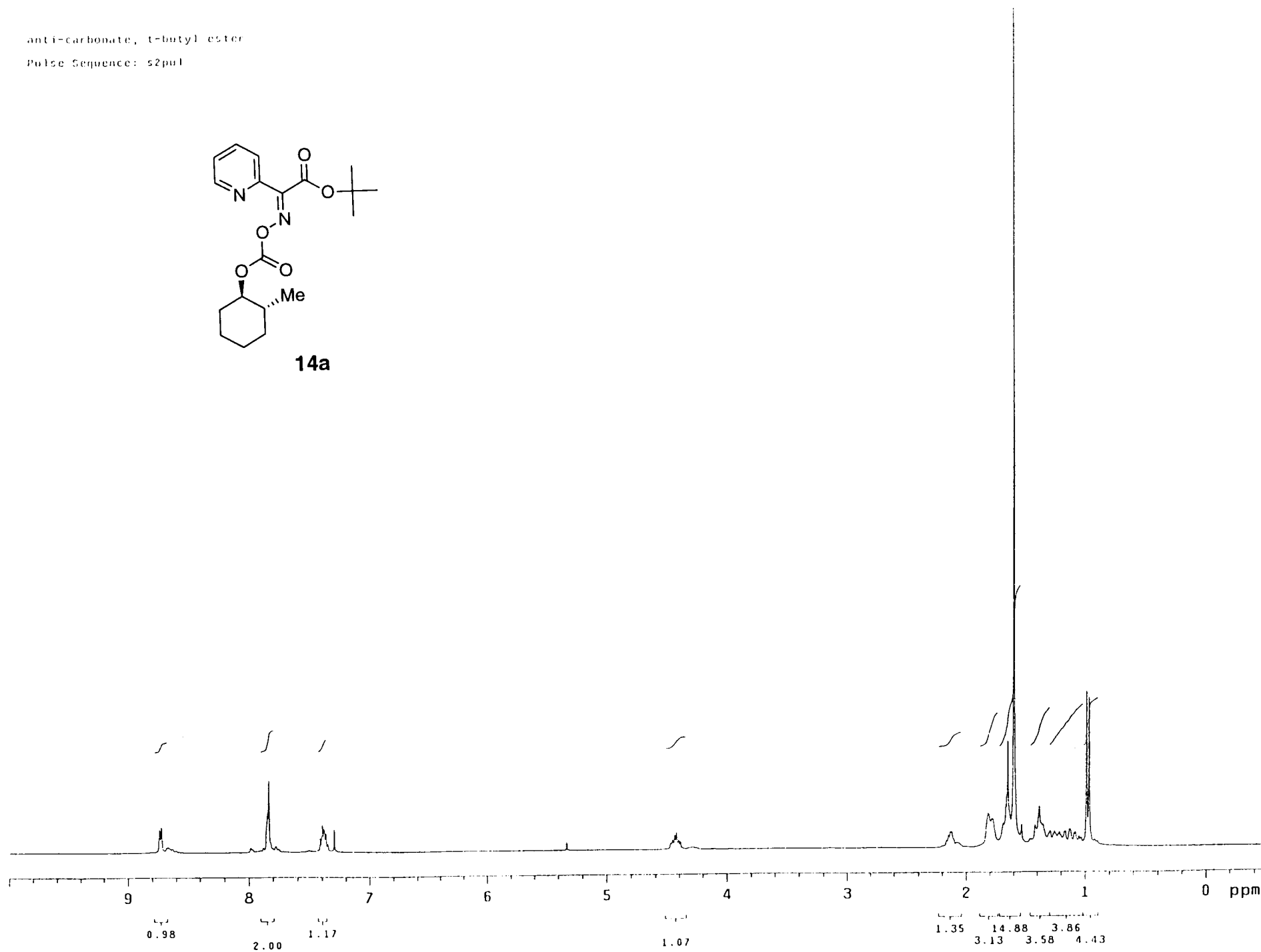


anti-carbonate, t-butyl ester

Pulse Sequence: s2pu1

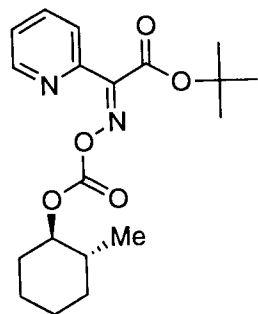


**14a**

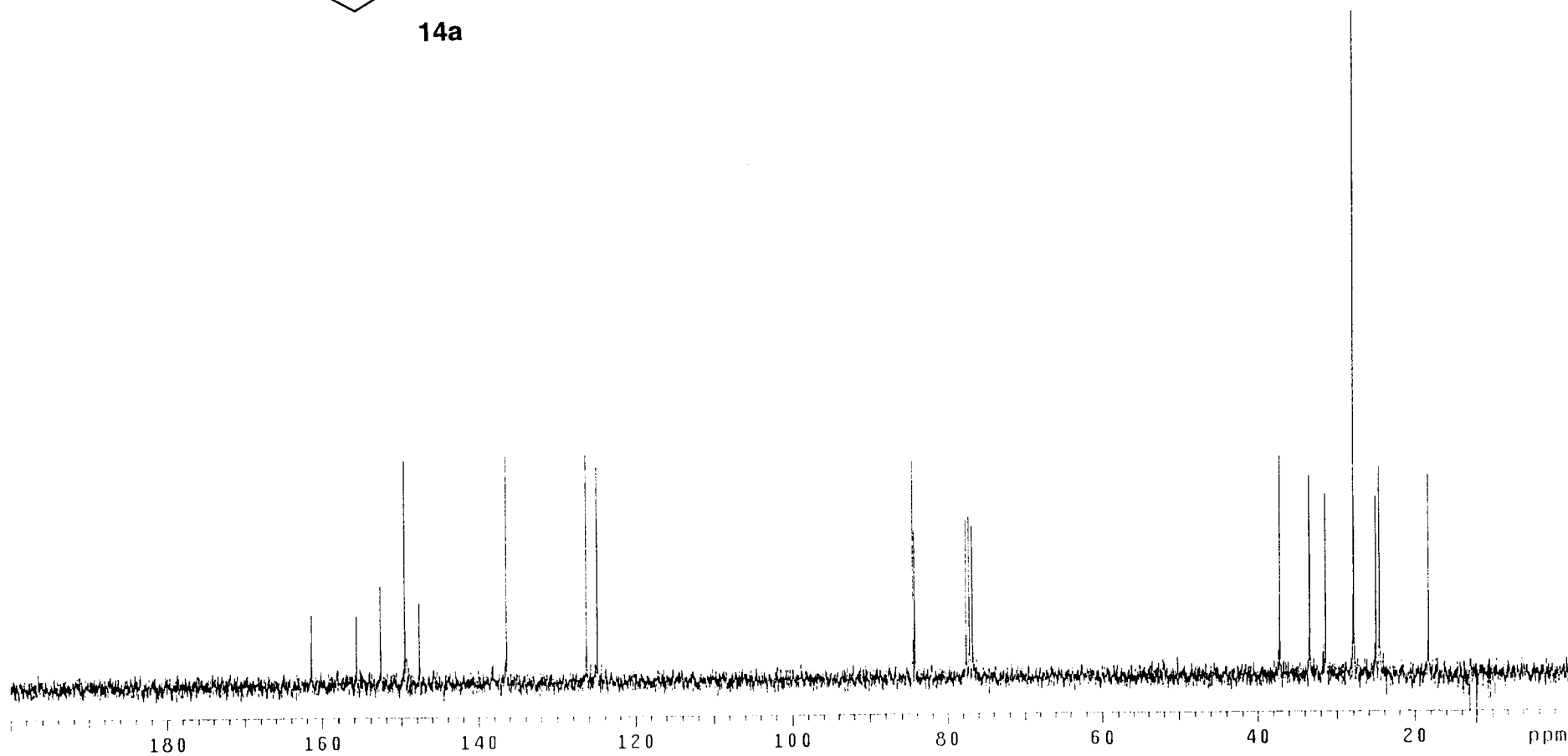


anti-carbonate, t-butyl ester

Pulse Sequence: zgpg30

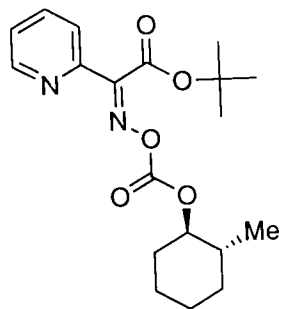


**14a**

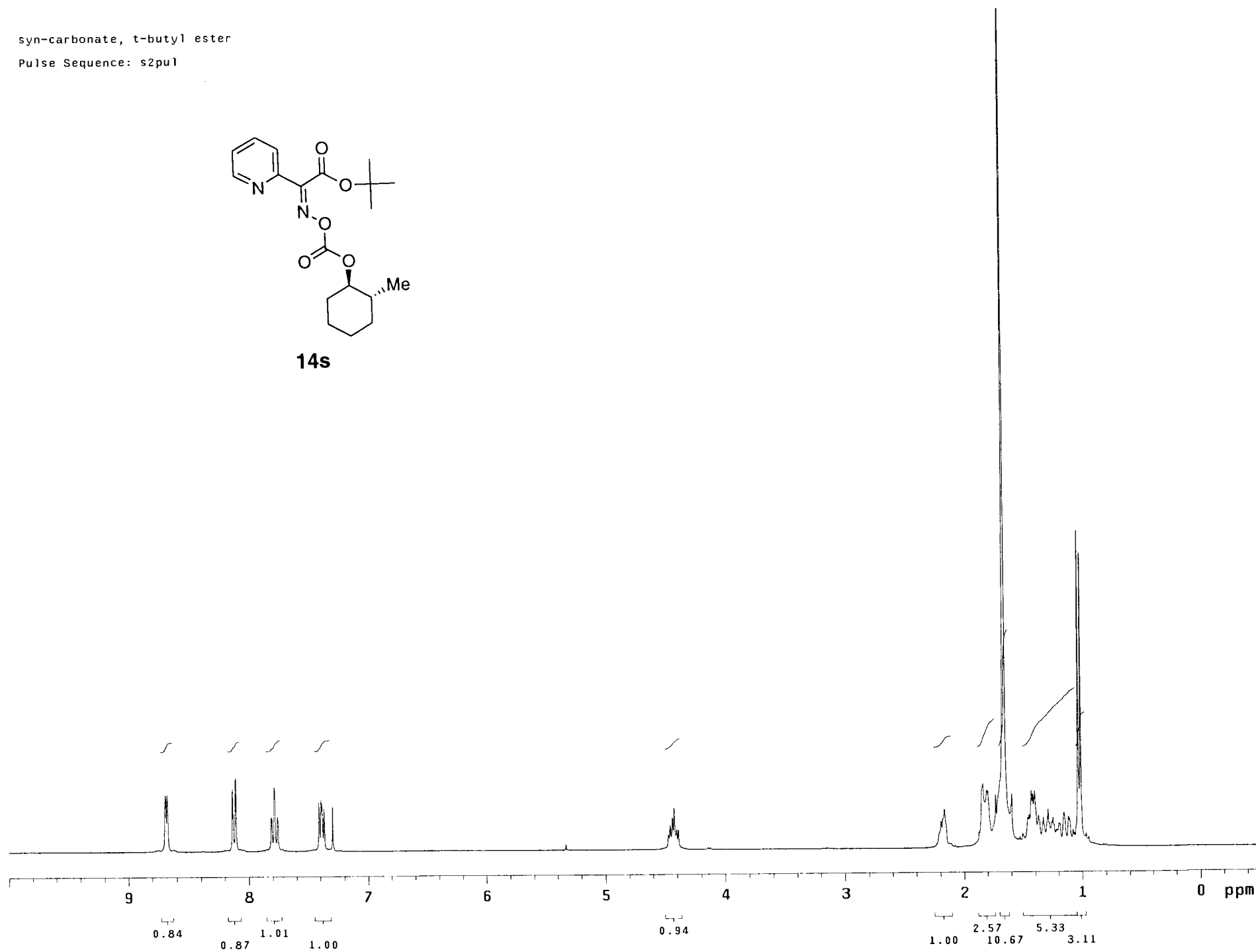


syn-carbonate, t-butyl ester

Pulse Sequence: s2pu1

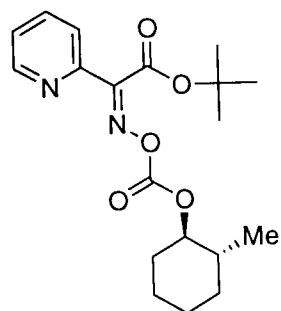


**14s**

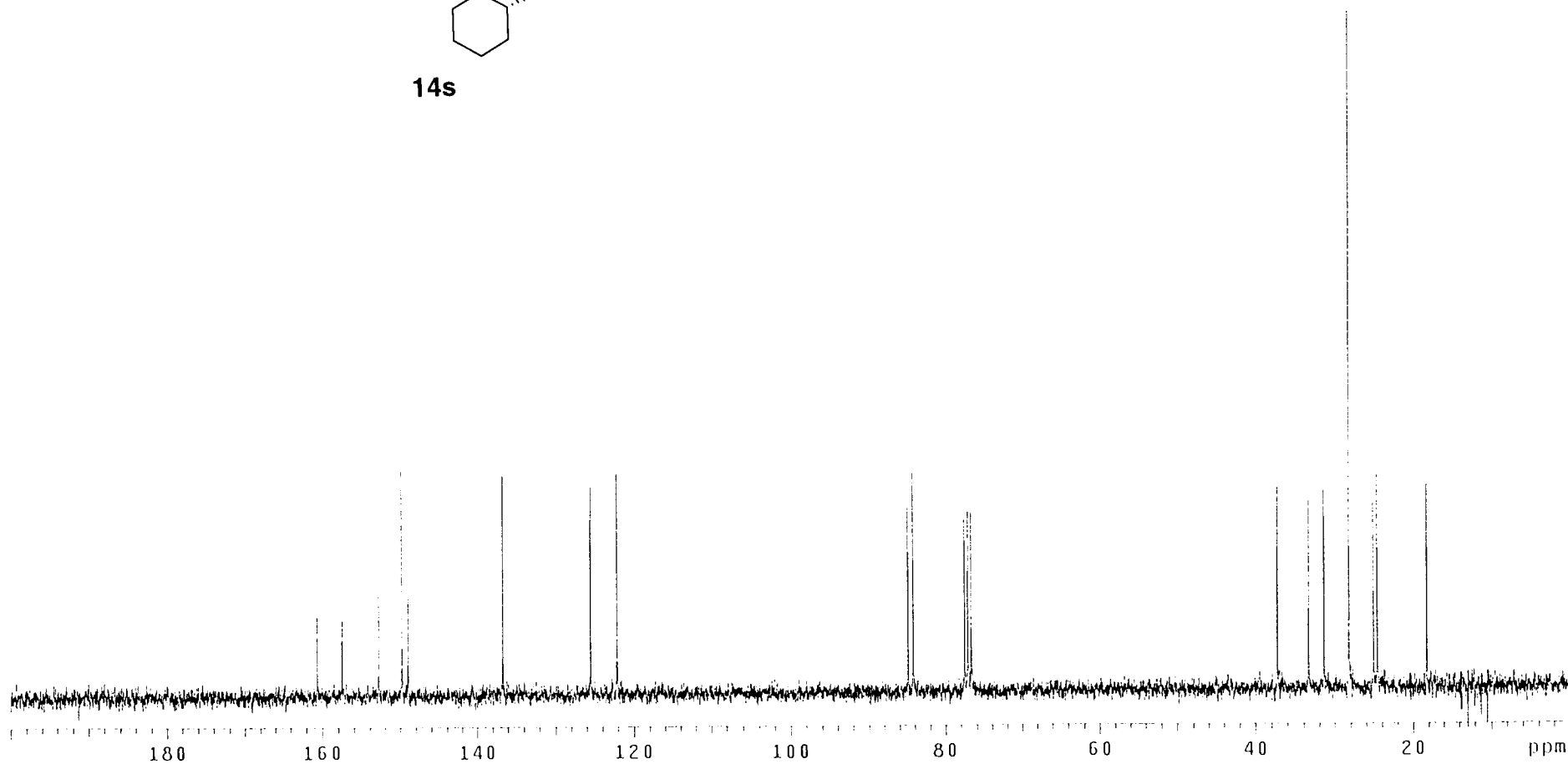


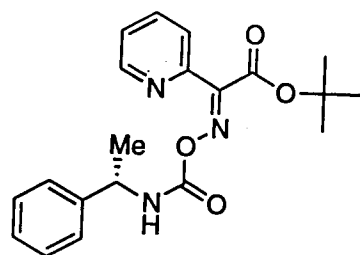
syn-carbonate, t-butyl ester

Pulse Sequence: s2pul1

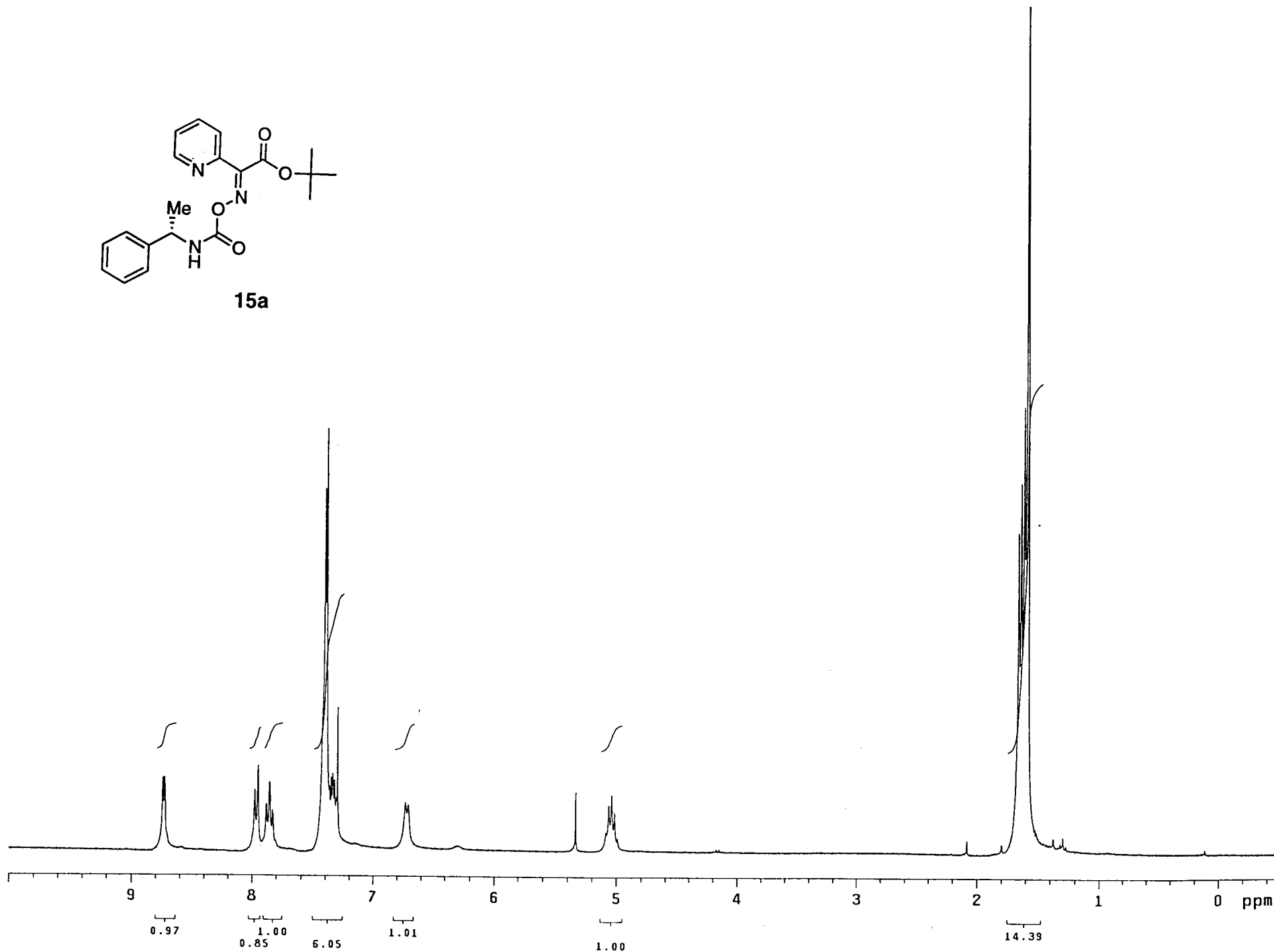


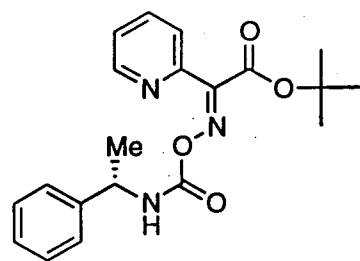
**14s**



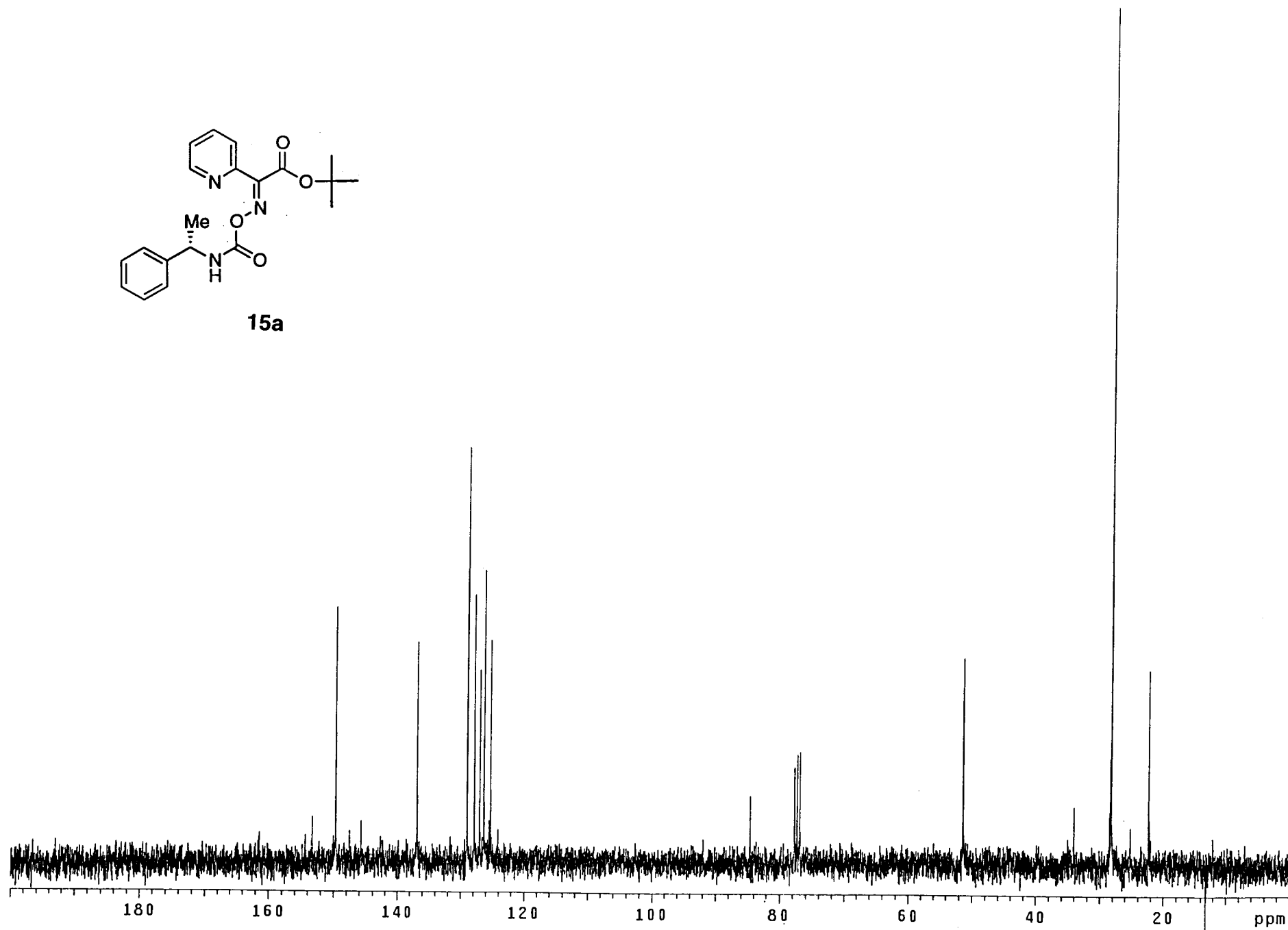


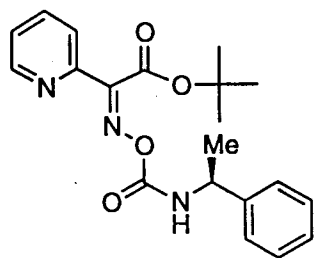
15a



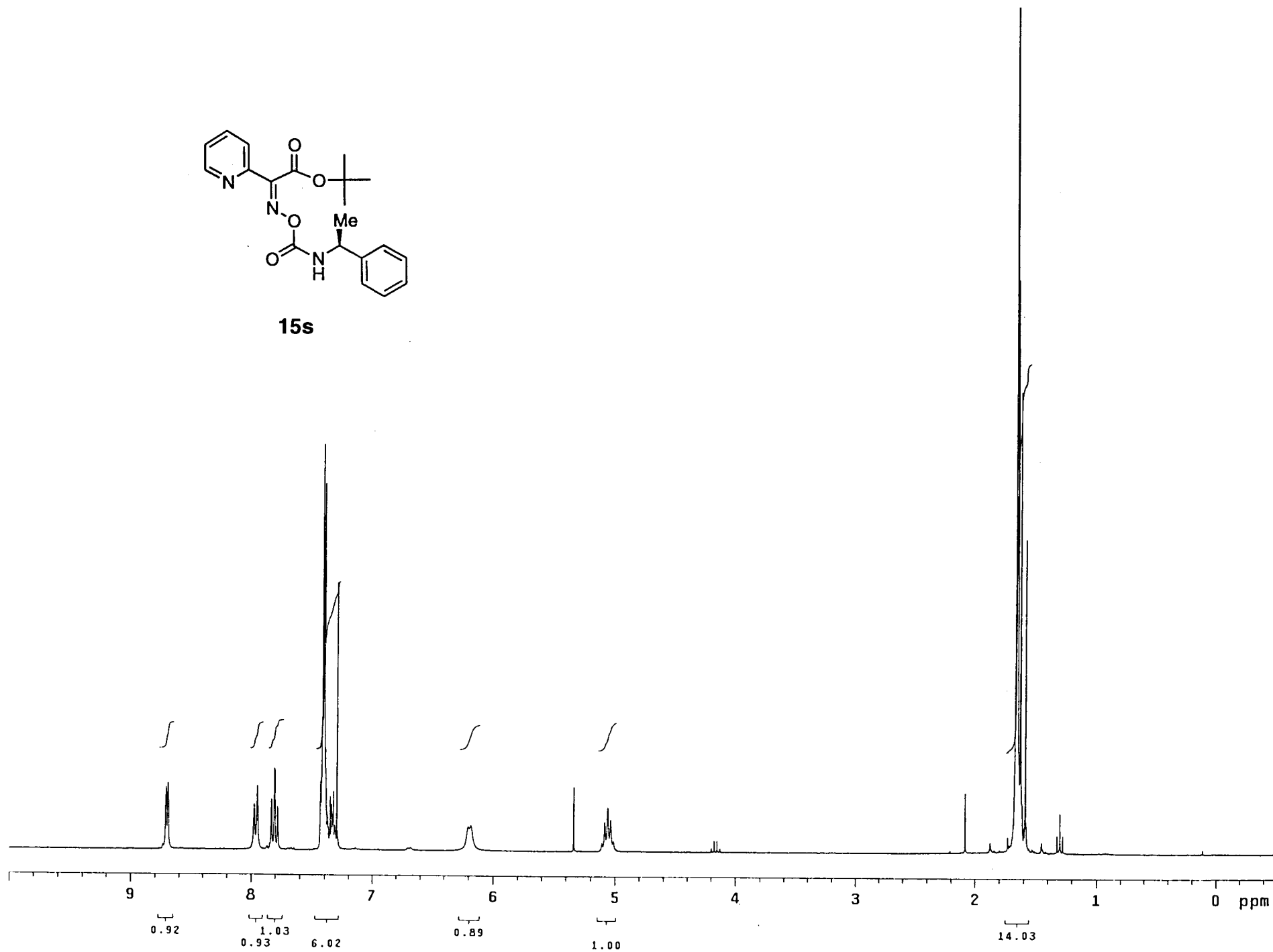


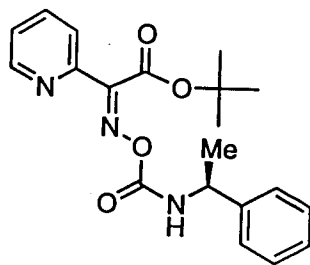
15a



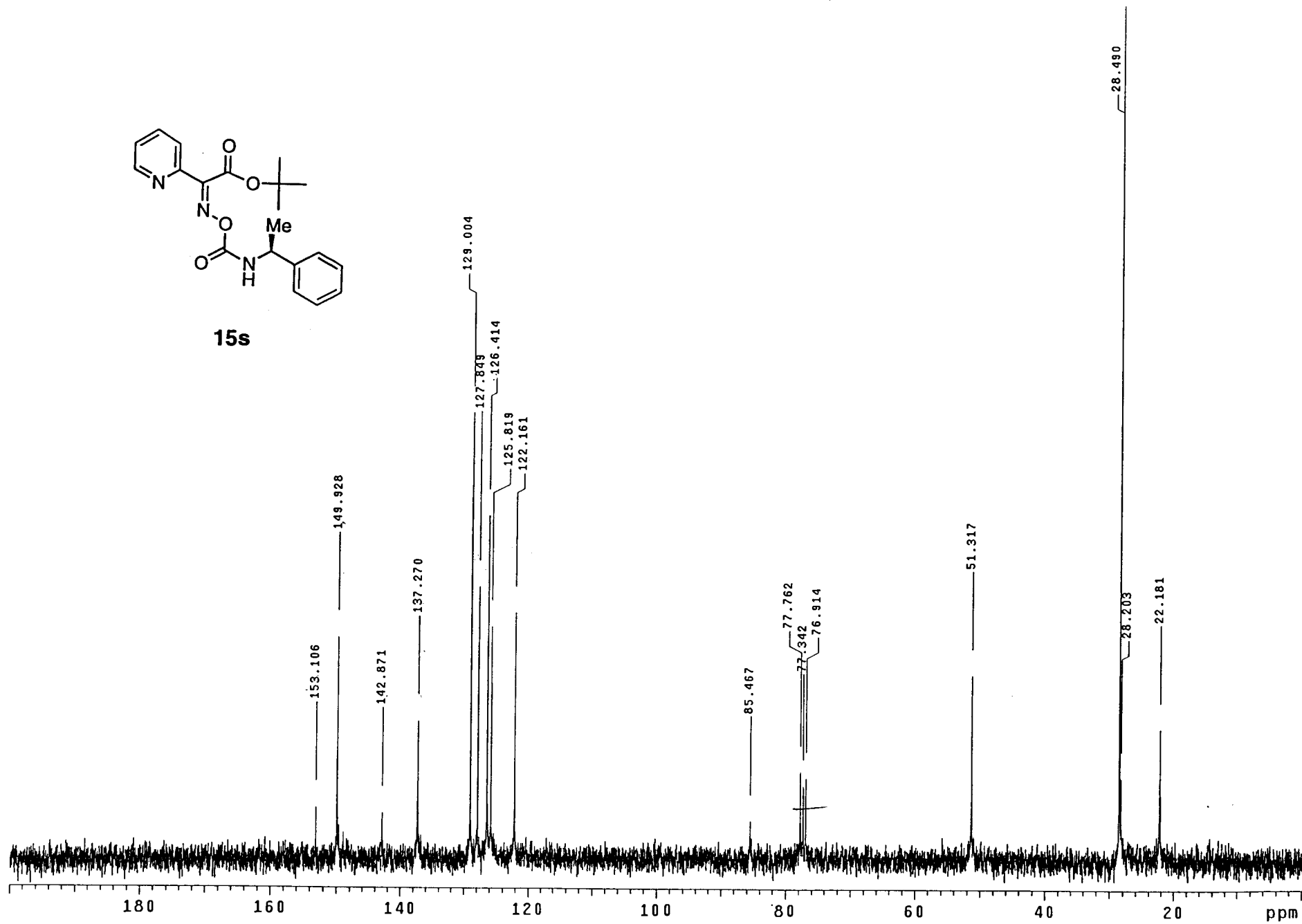


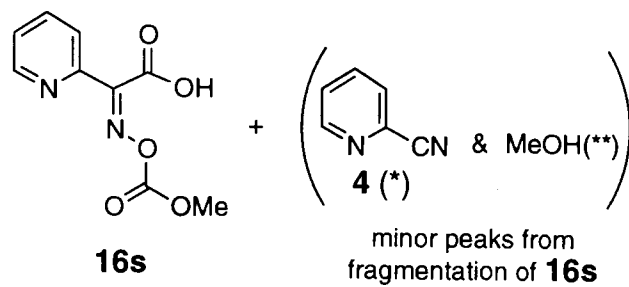
**15s**



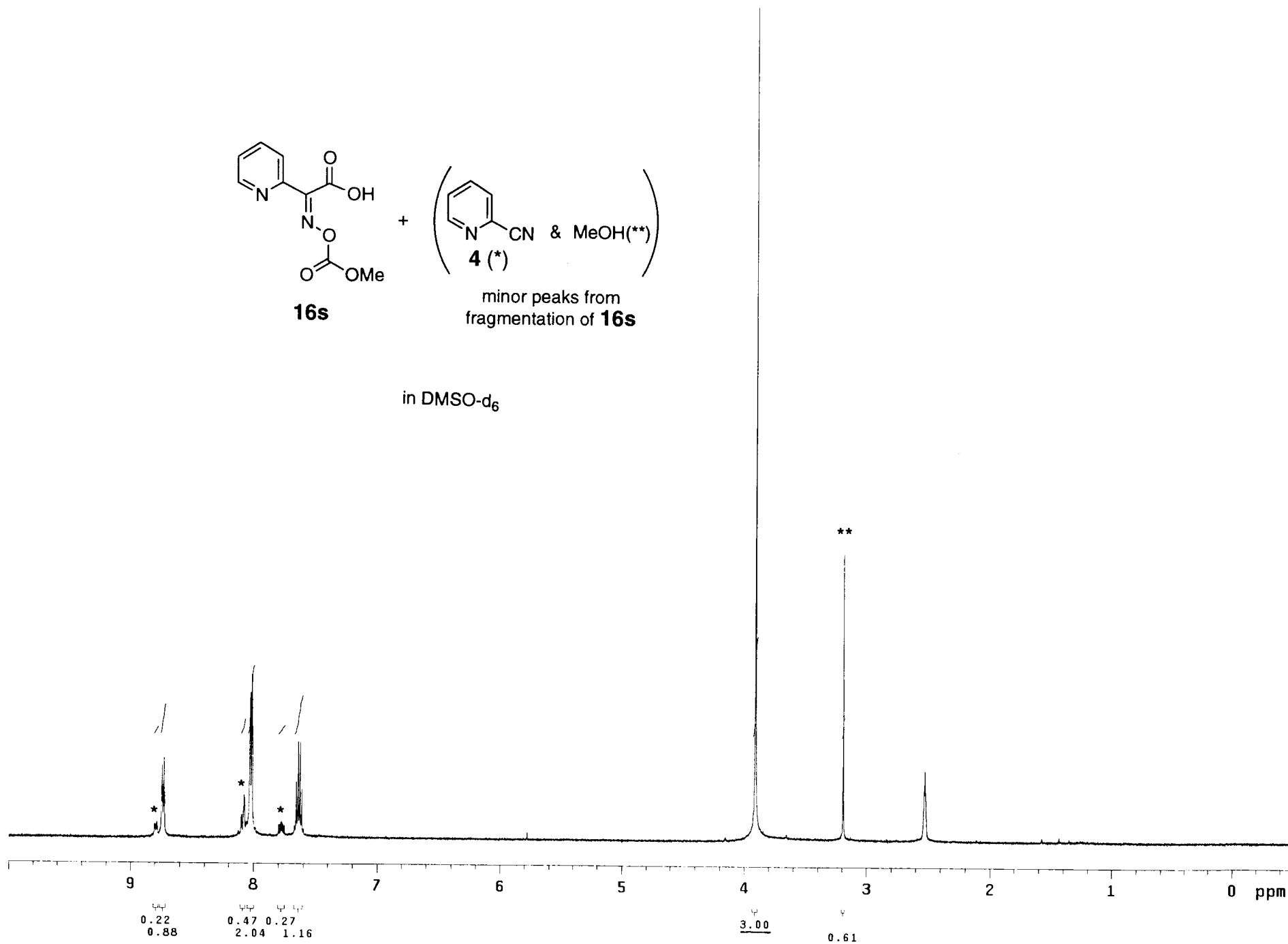


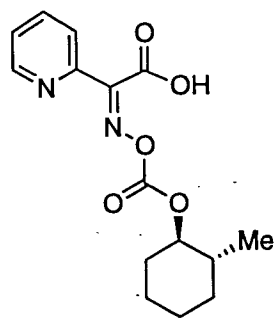
**15s**



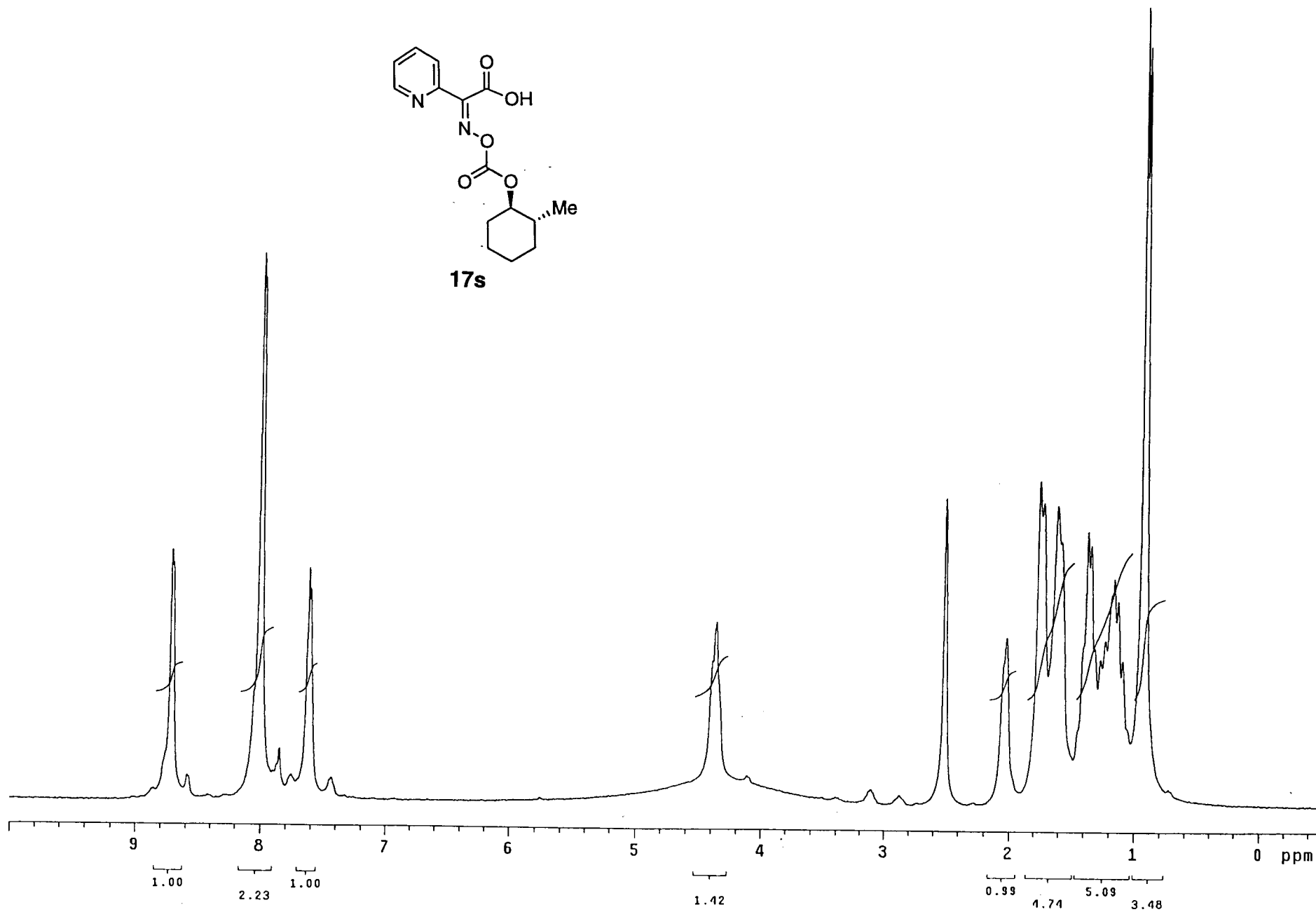


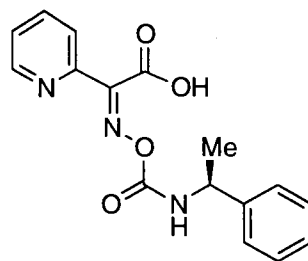
in DMSO-d<sub>6</sub>



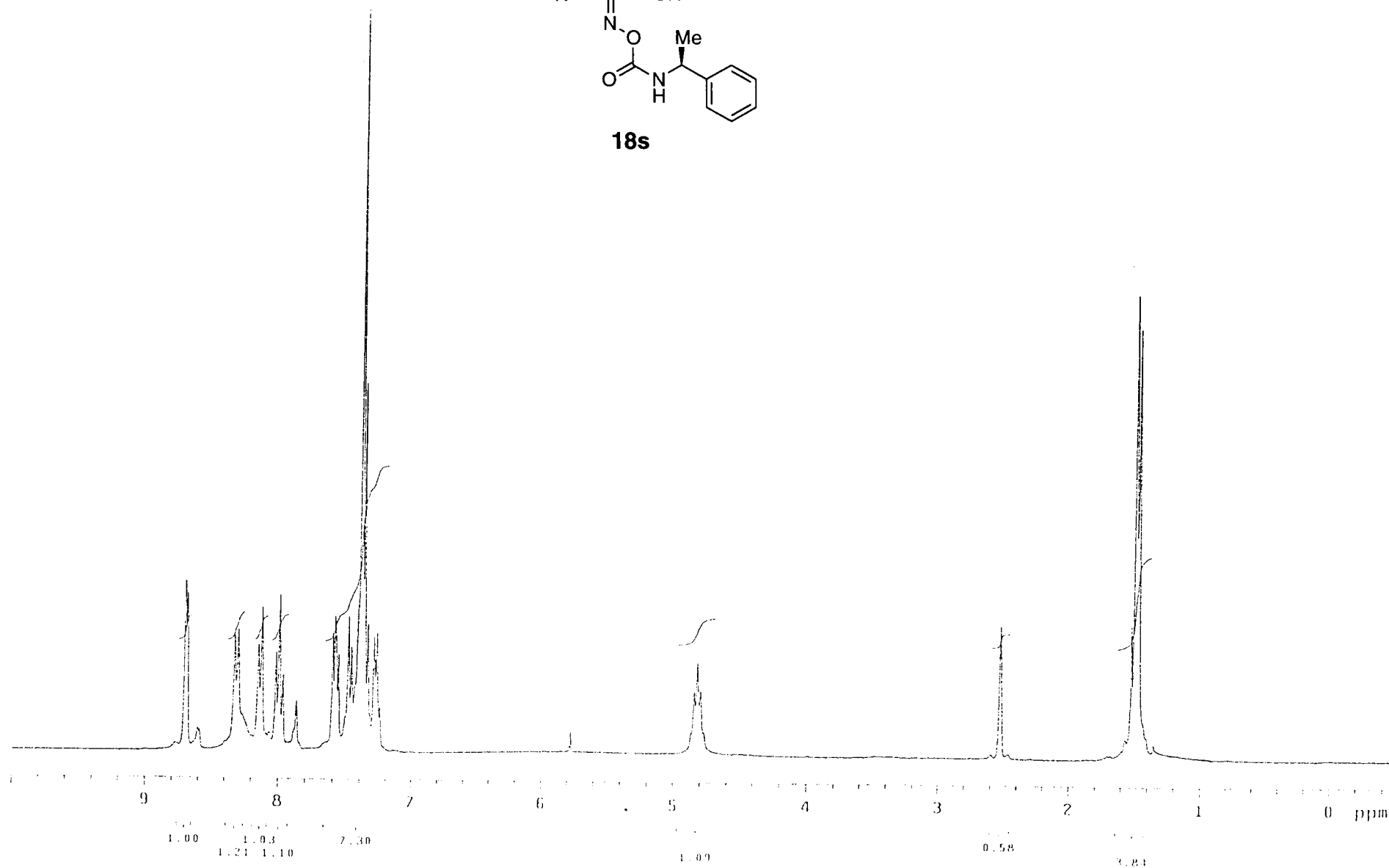


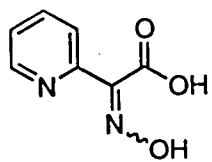
**17s**



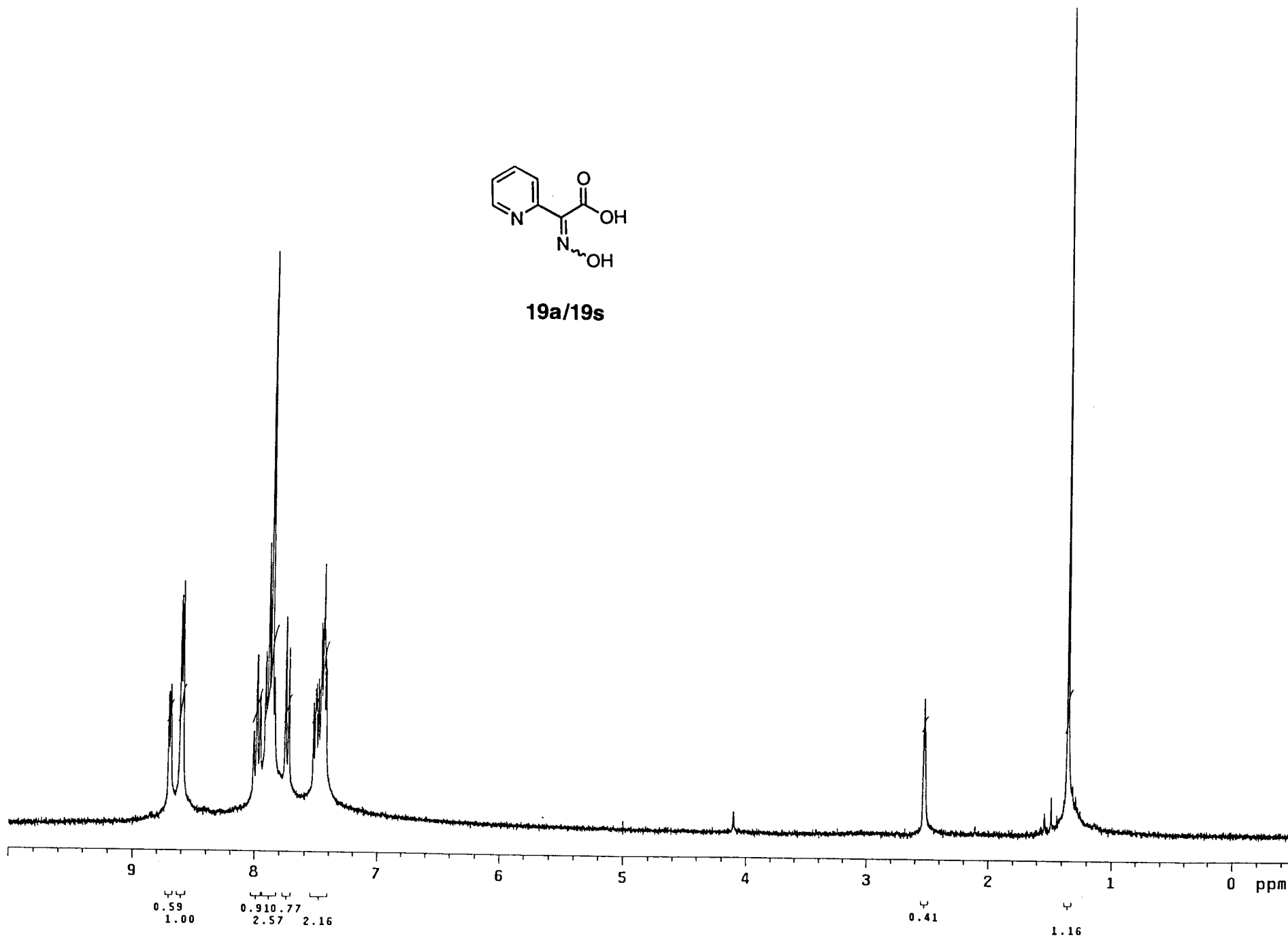


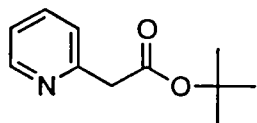
**18s**



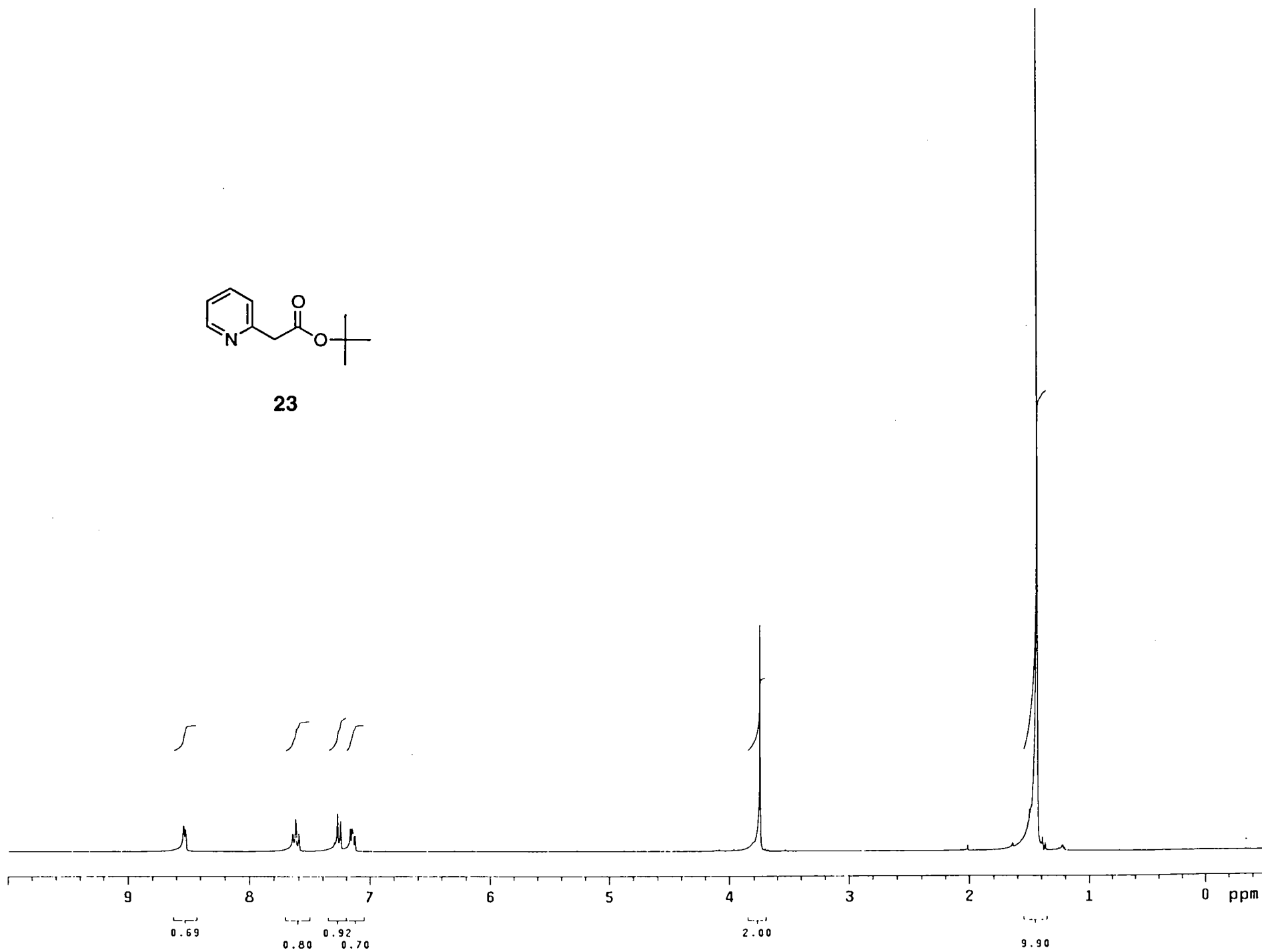


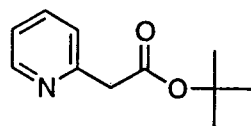
**19a/19s**



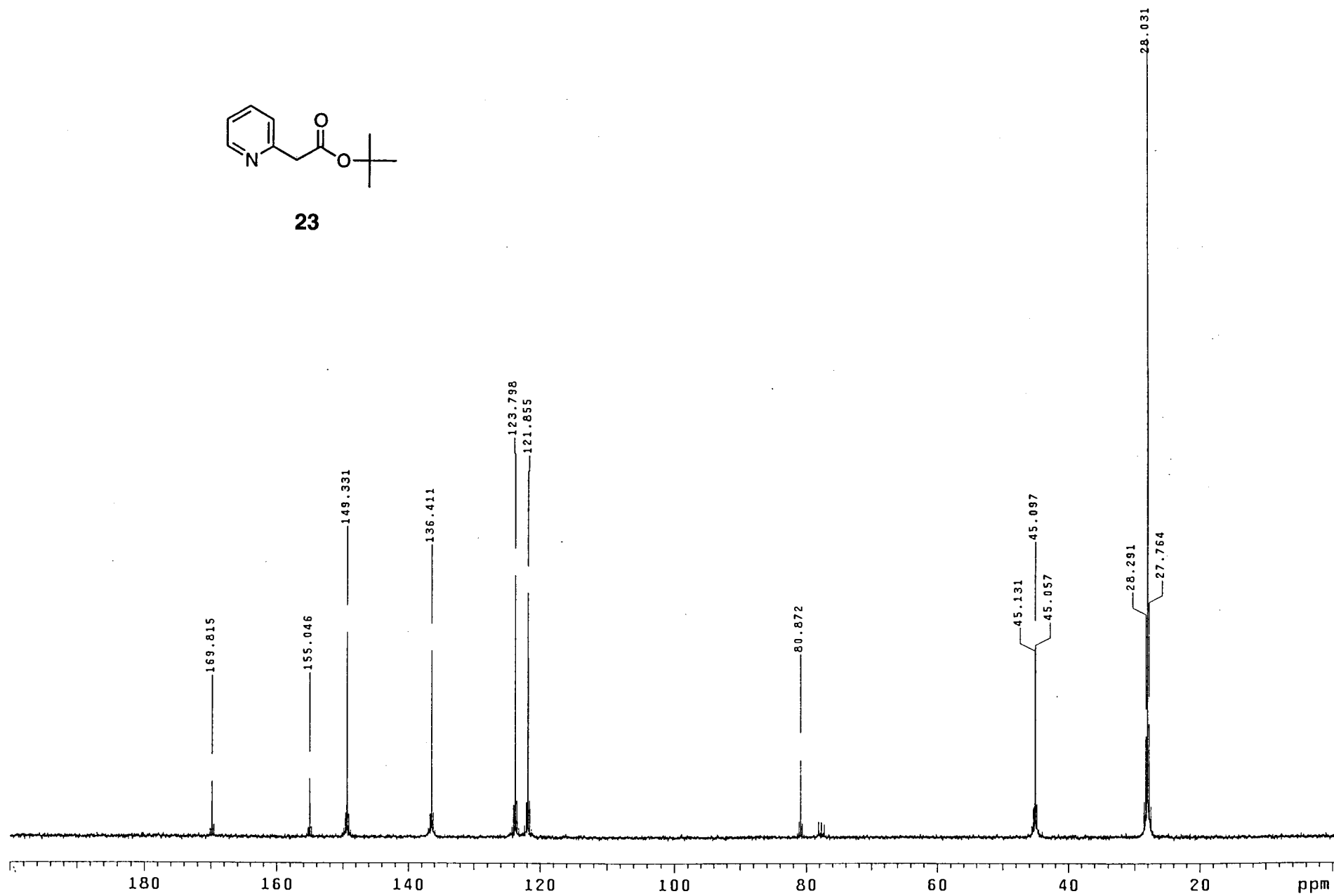


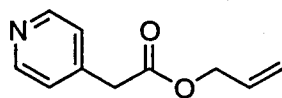
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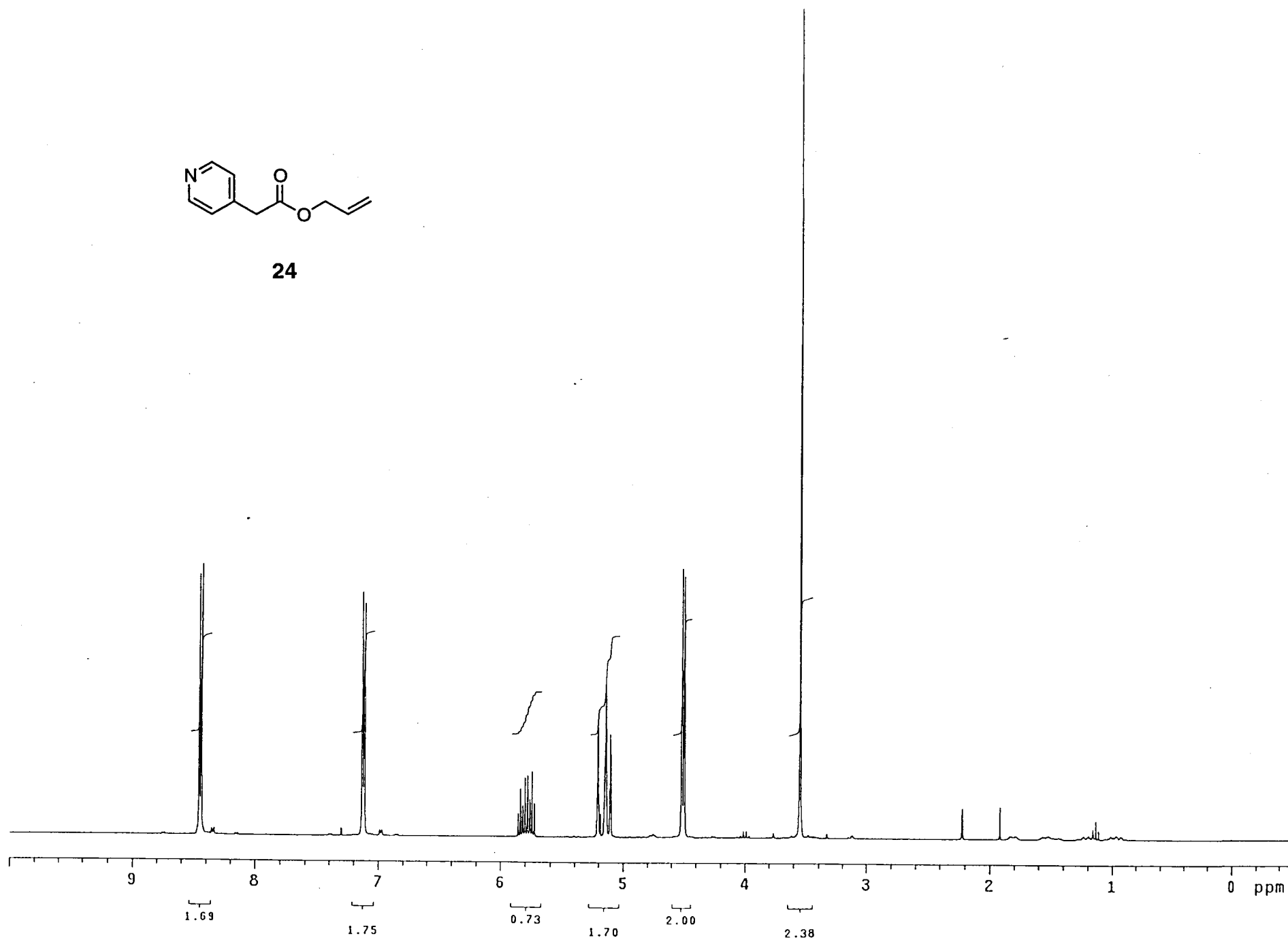


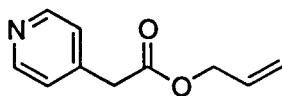
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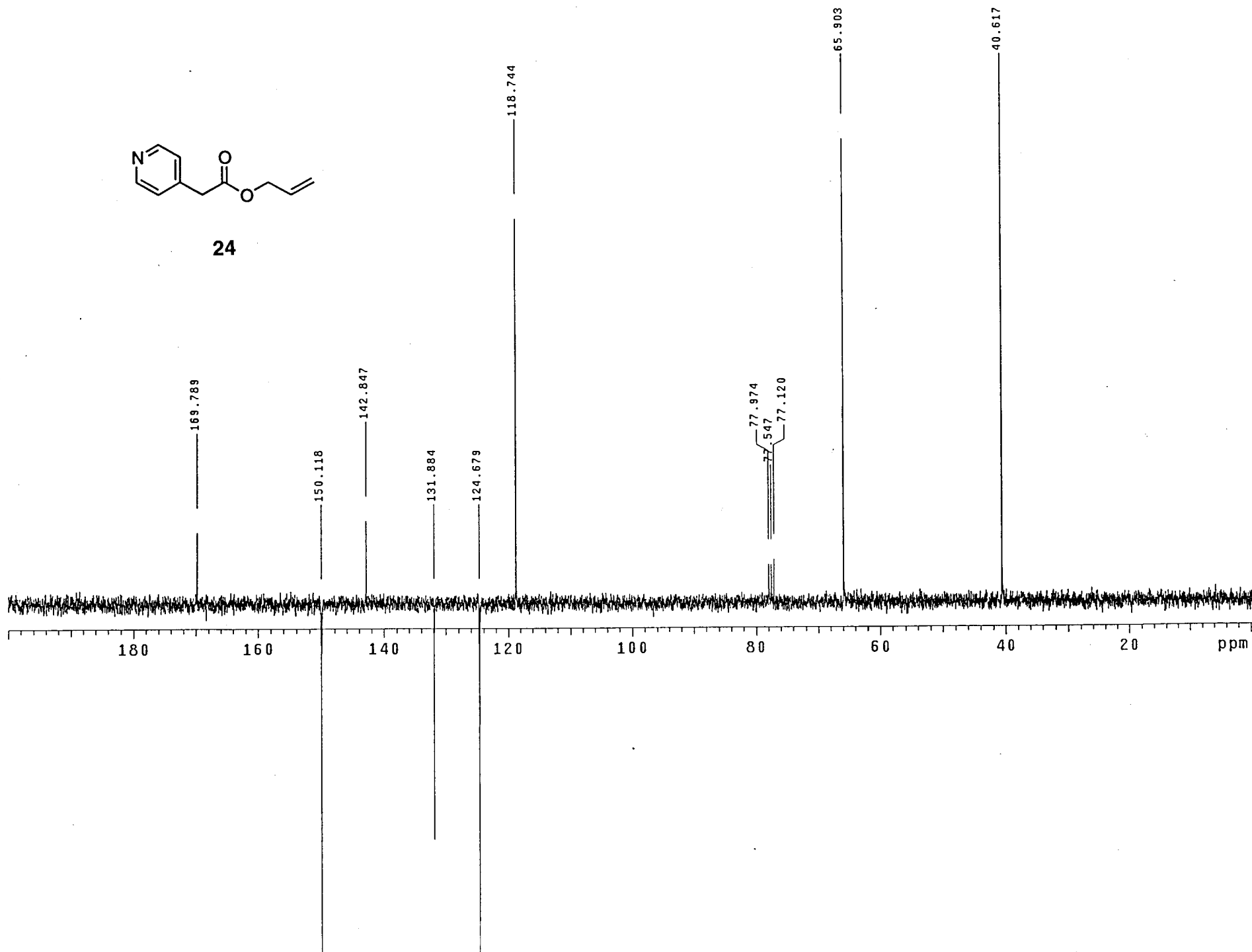


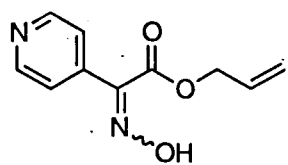
24





24





25a/25s

