

Supplementary Material

Efficient diastereoselective synthesis of (1*R*,2*R*)-1-alkyl-1-phenyl-2-methylaminopropanes and study of their stereochemical aspects

Saravanan Rangan,^{a,b} S. Arul Antony,^b Abirami Kandhaswamy,^a
Hitesh Kumar Borkatte,^a and Tangirala Prakasam^{*a}

^a Research and Development Centre, Malladi Drugs and Pharmaceuticals Ltd. No. 788/1,
Irulapalayam, Kuthambakkam, Chennai 600 124, India.

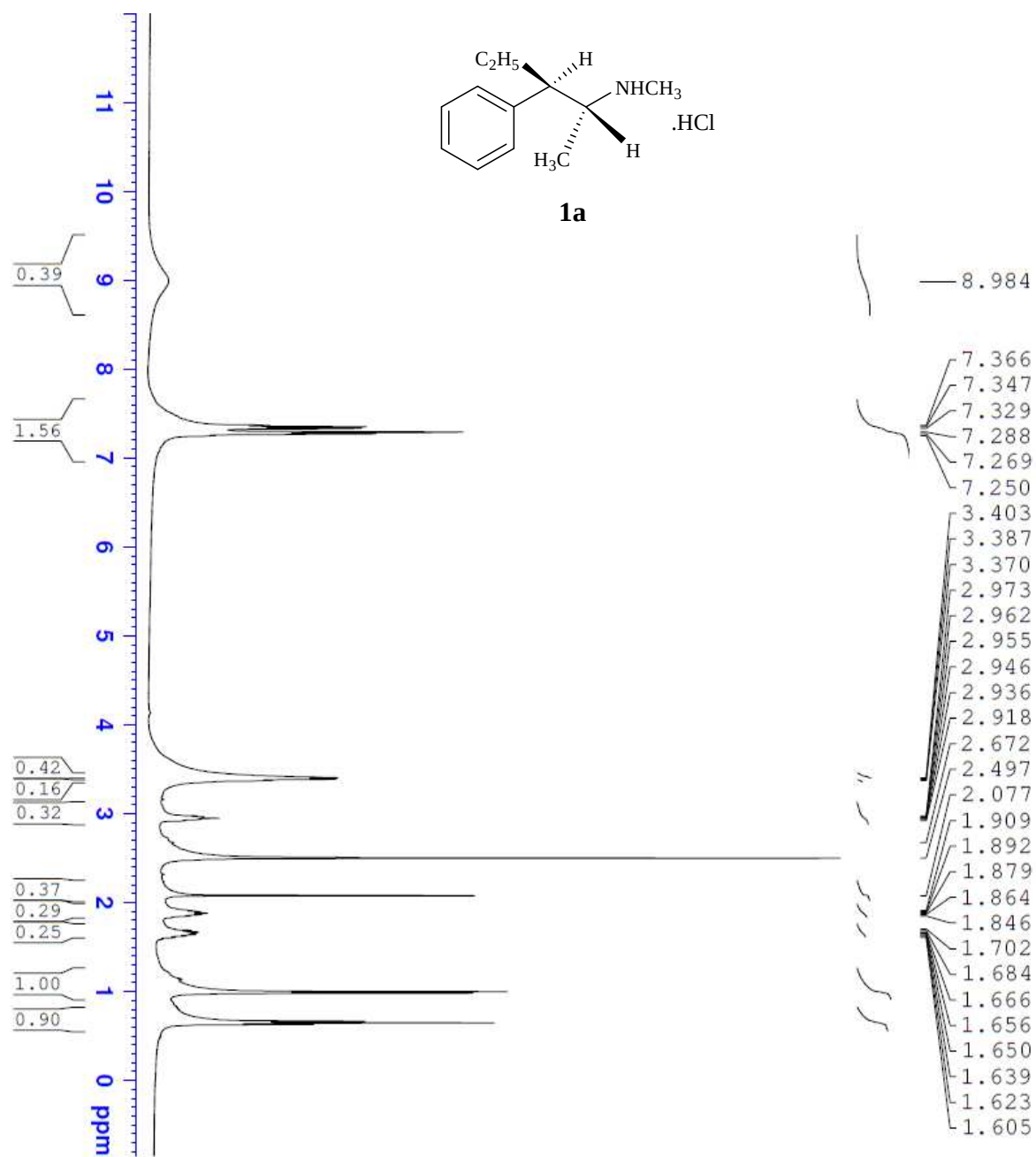
^b PG and Research Department of Chemistry, Presidency College, Chennai 600 005, India.

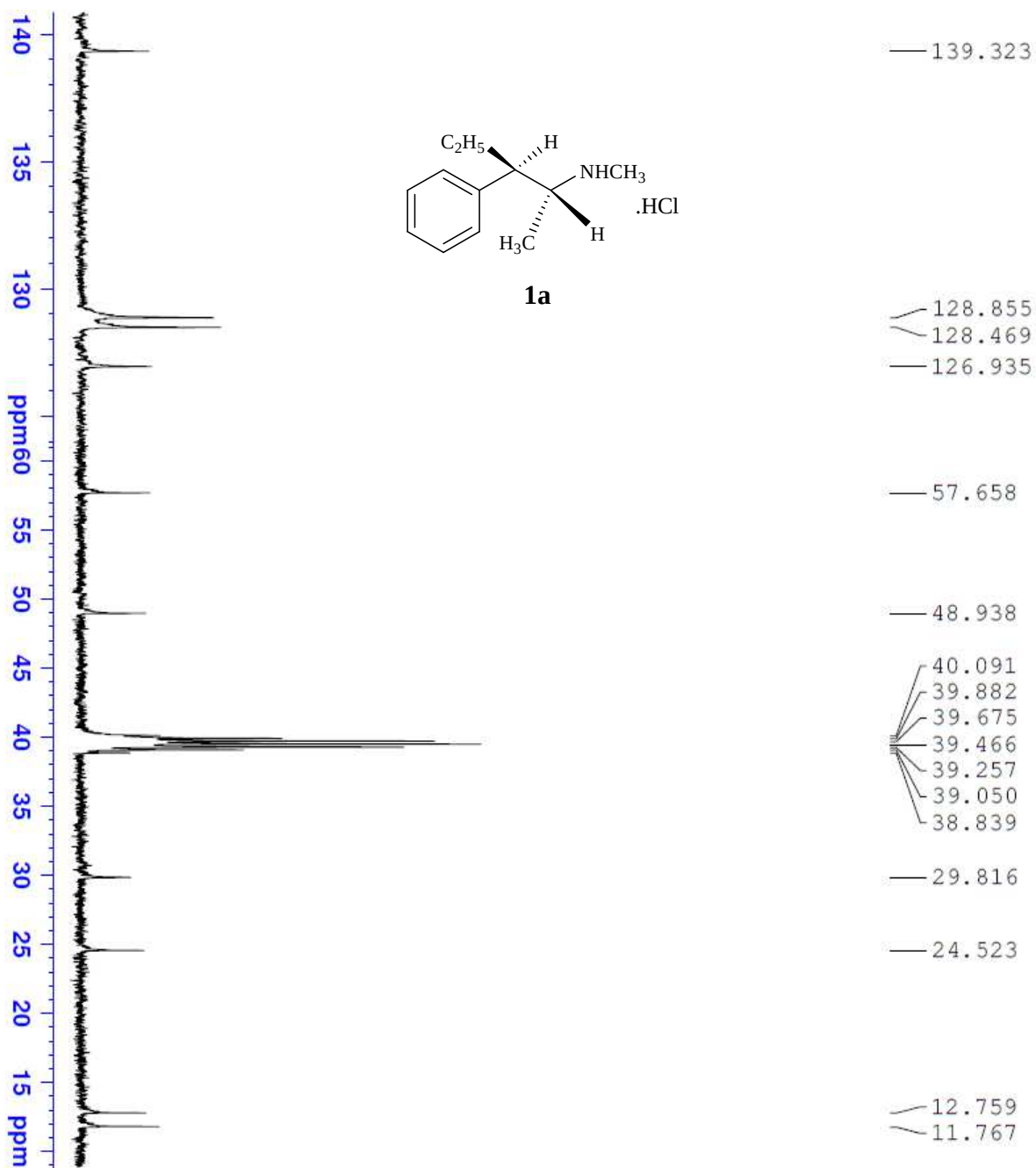
E-mail: prakasam@malladi.co.in

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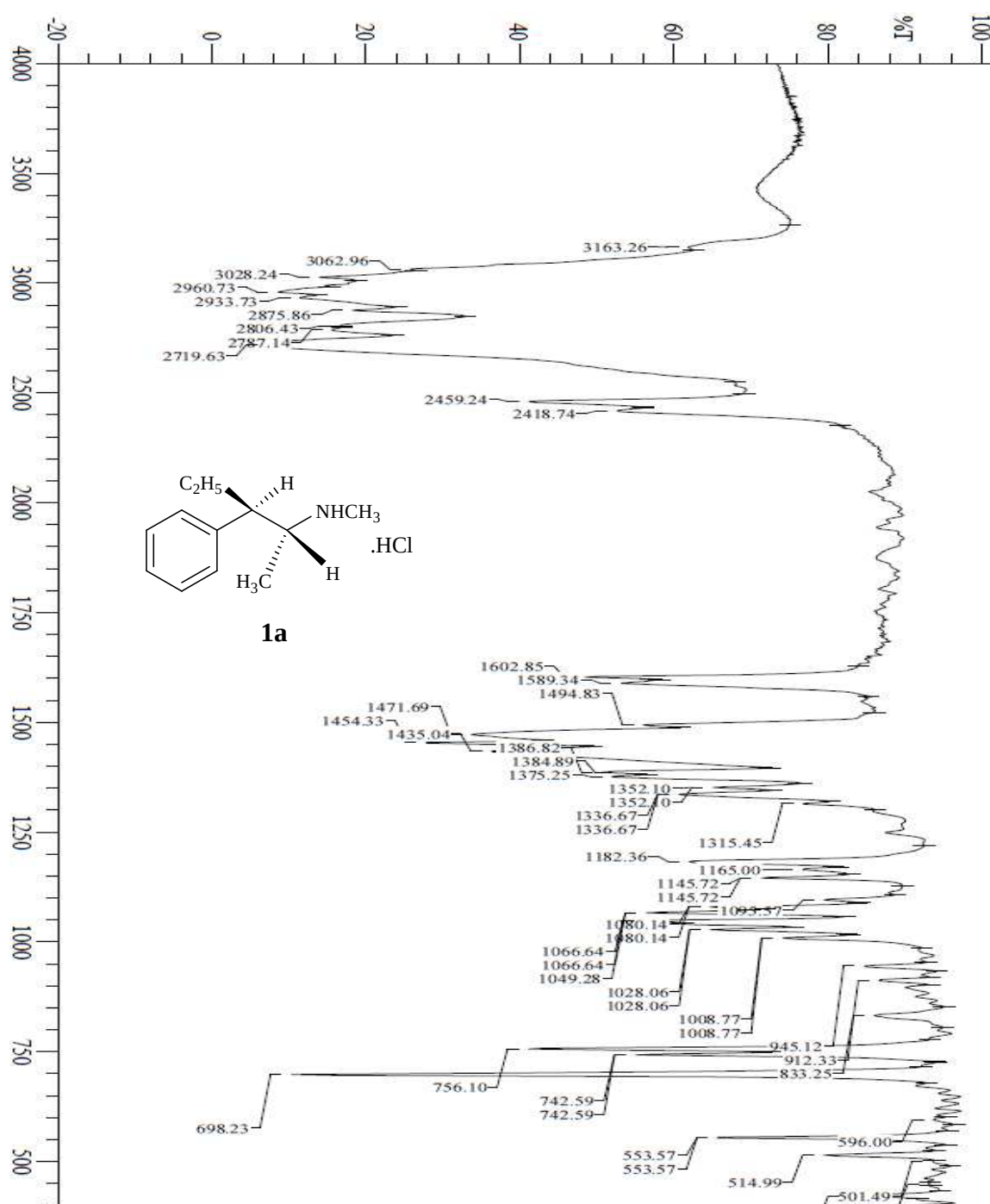
¹H NMR, ¹³C NMR, IR, Mass spectra of

1. 1-Ethyl-1-phenyl-2-methylaminopropane hydrochloride	S-2
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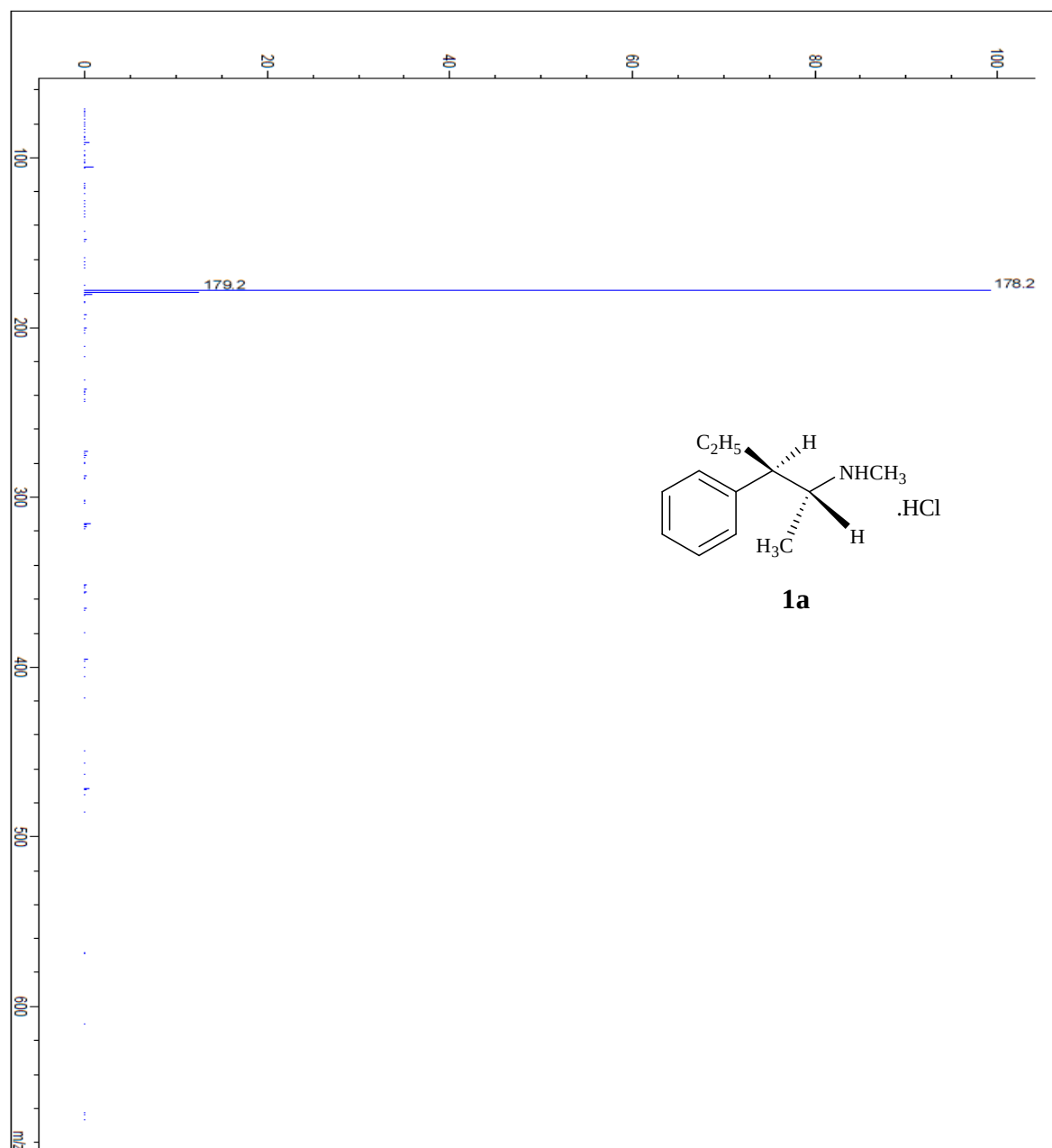
1-Ethyl-1-phenyl-2-methylaminopropane hydrochloride (Compound 1a) ^1H NMR (DMSO- d_6 , 400 MHz) ^{13}C NMR (DMSO- d_6 , 100 MHz)

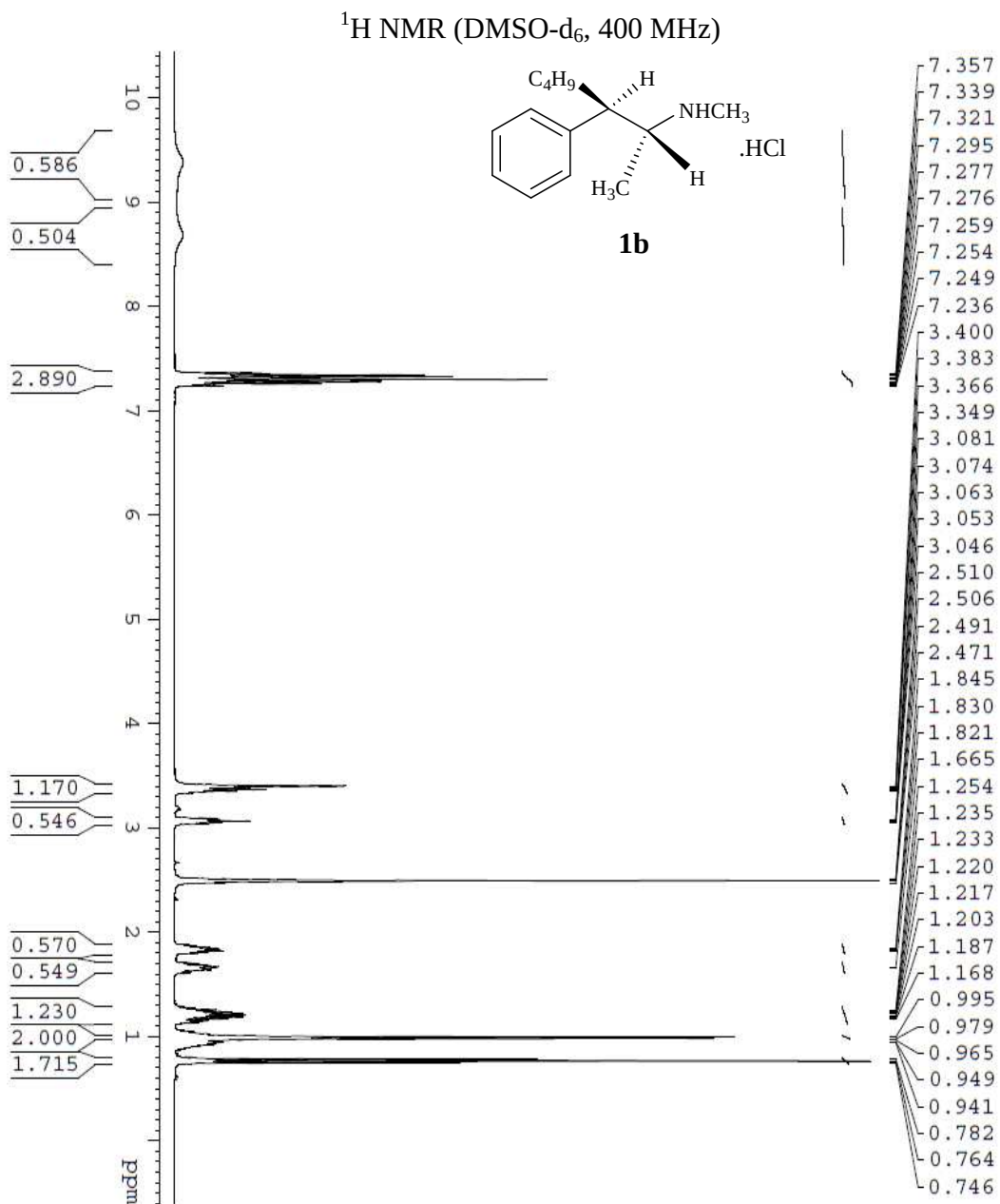


IR spectrum (KBr cm^{-1}):

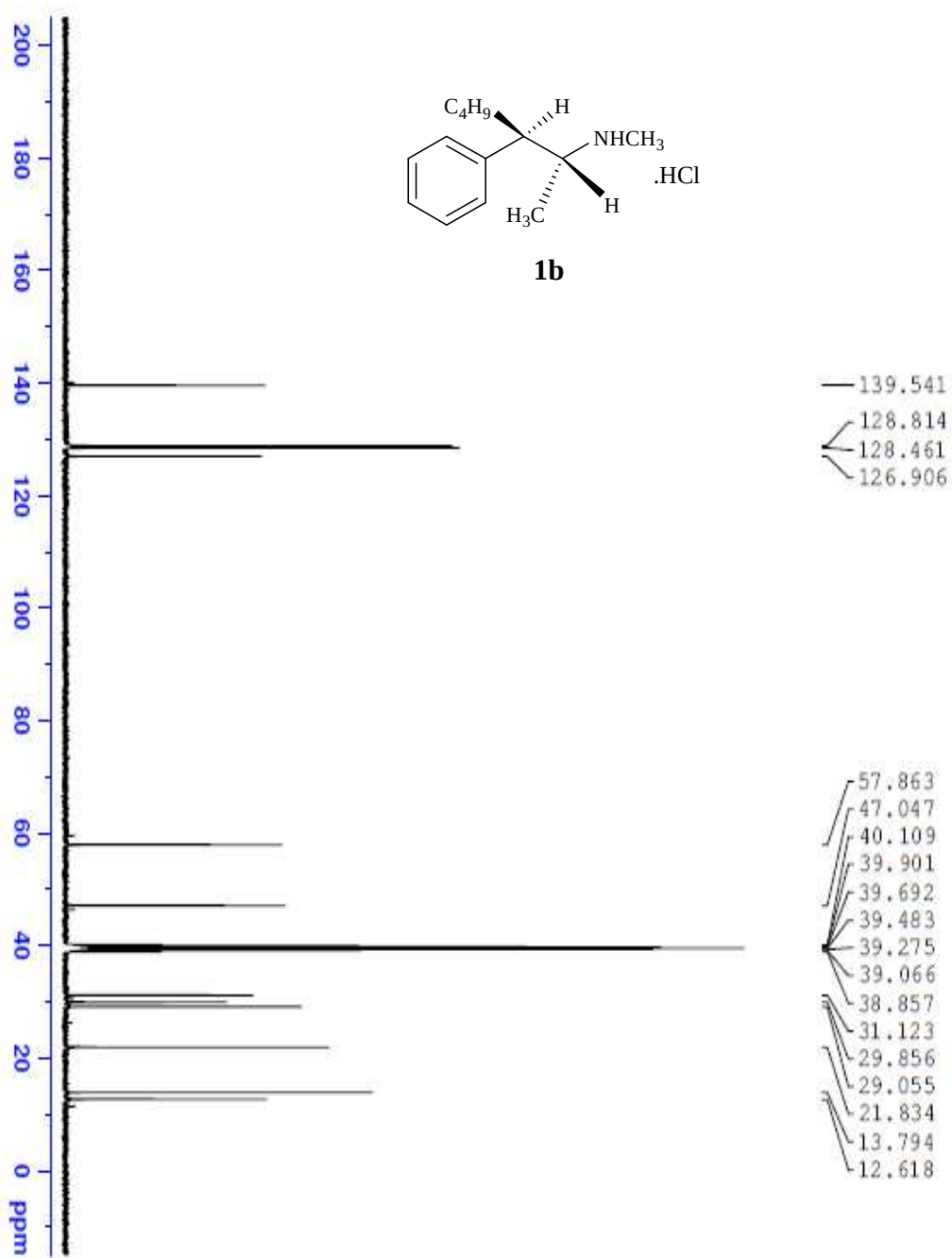


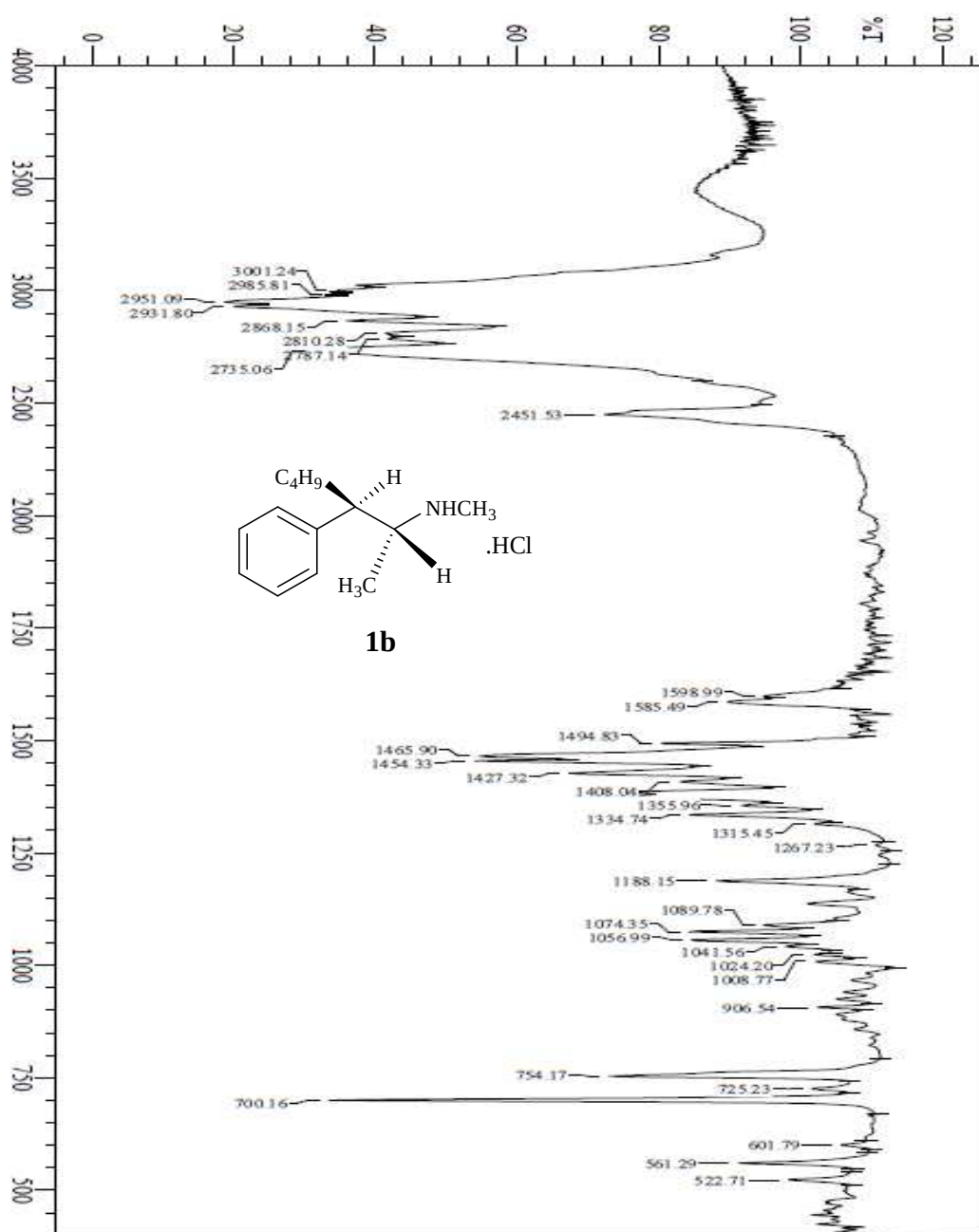
Mass spectrum (ESI, (+)-mode)



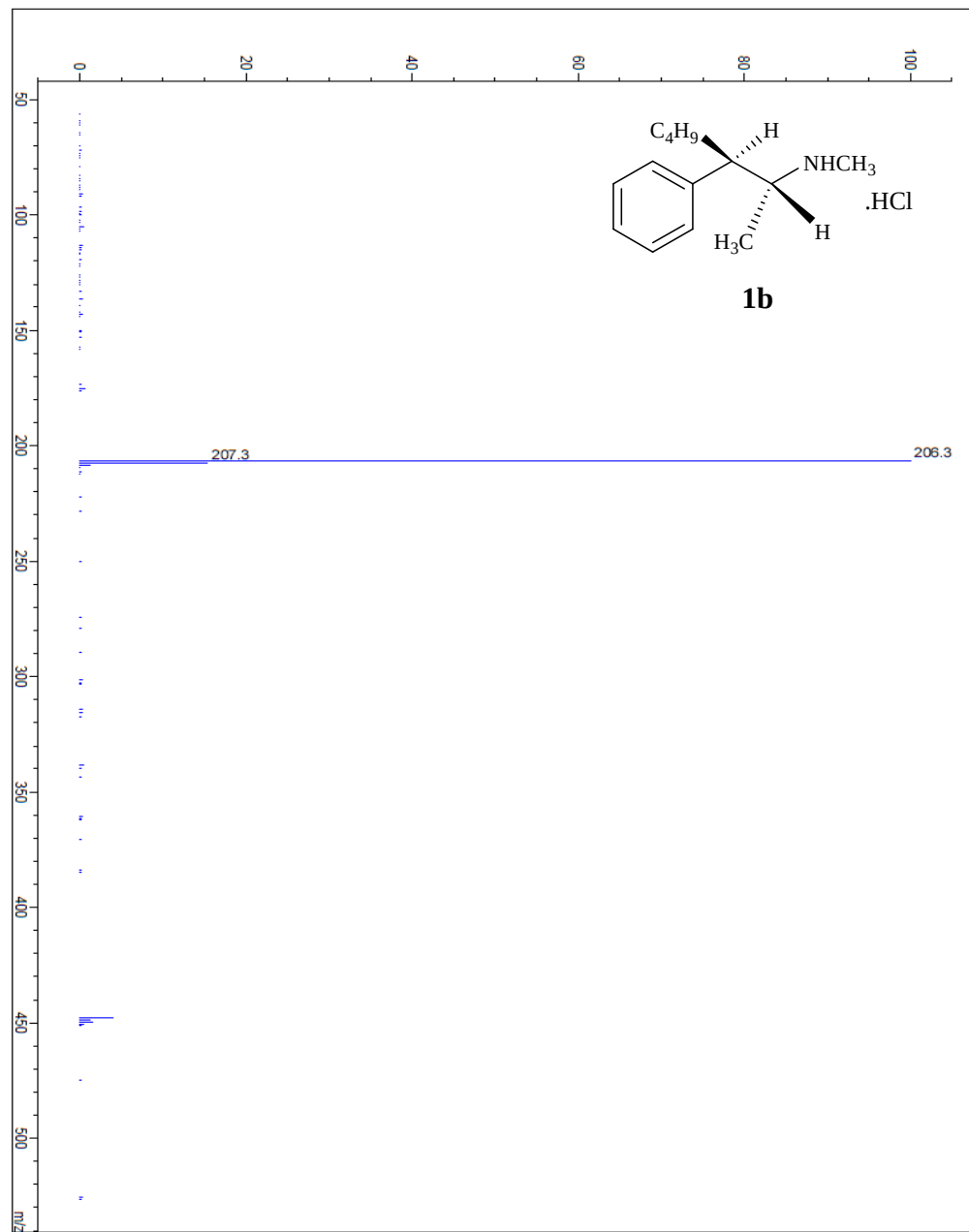
1-(1-Butyl)-1-phenyl-2-methylaminopropane hydrochloride (Compound 1b).

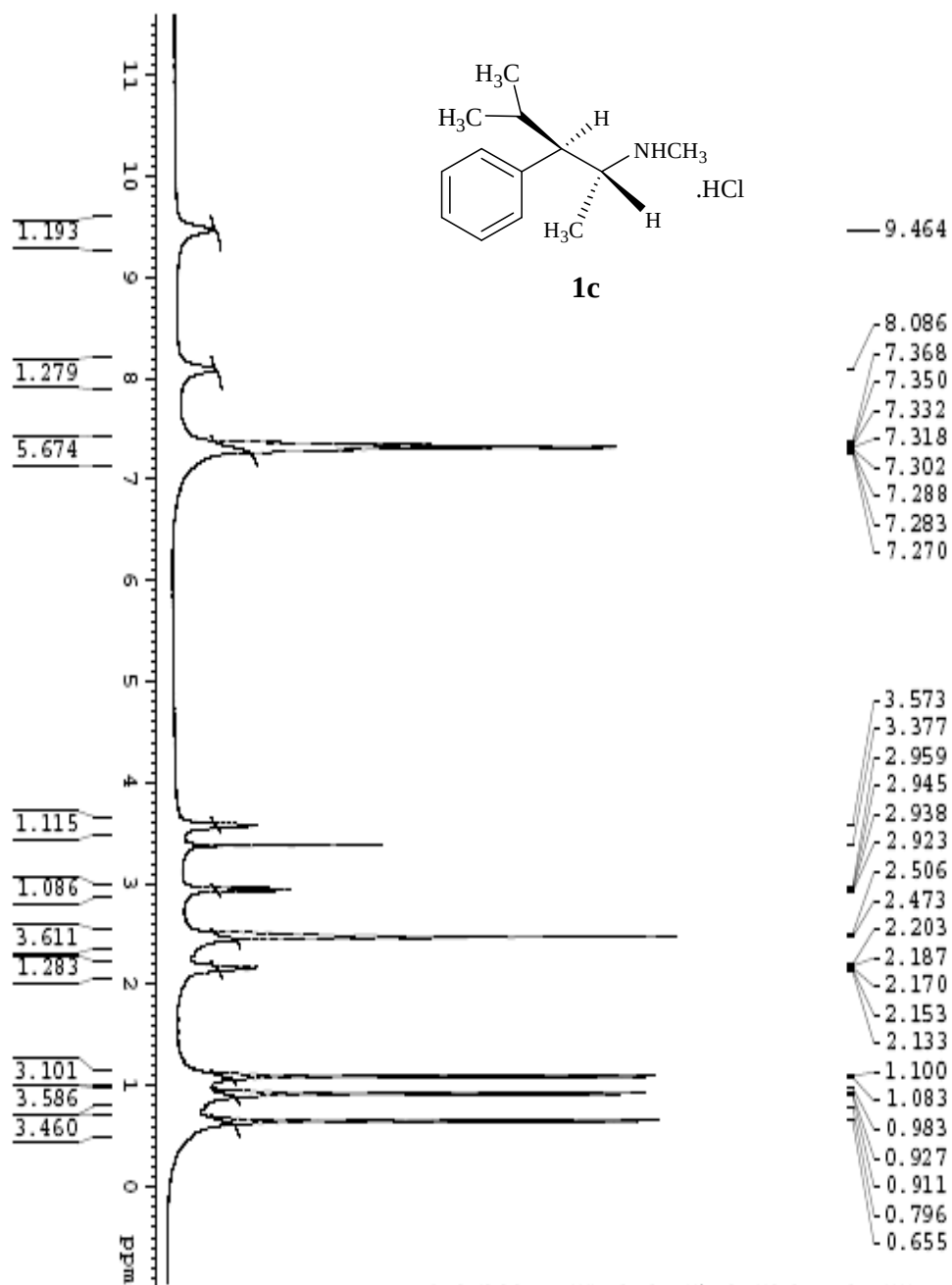
^{13}C NMR (DMSO- d_6 , 100 MHz)

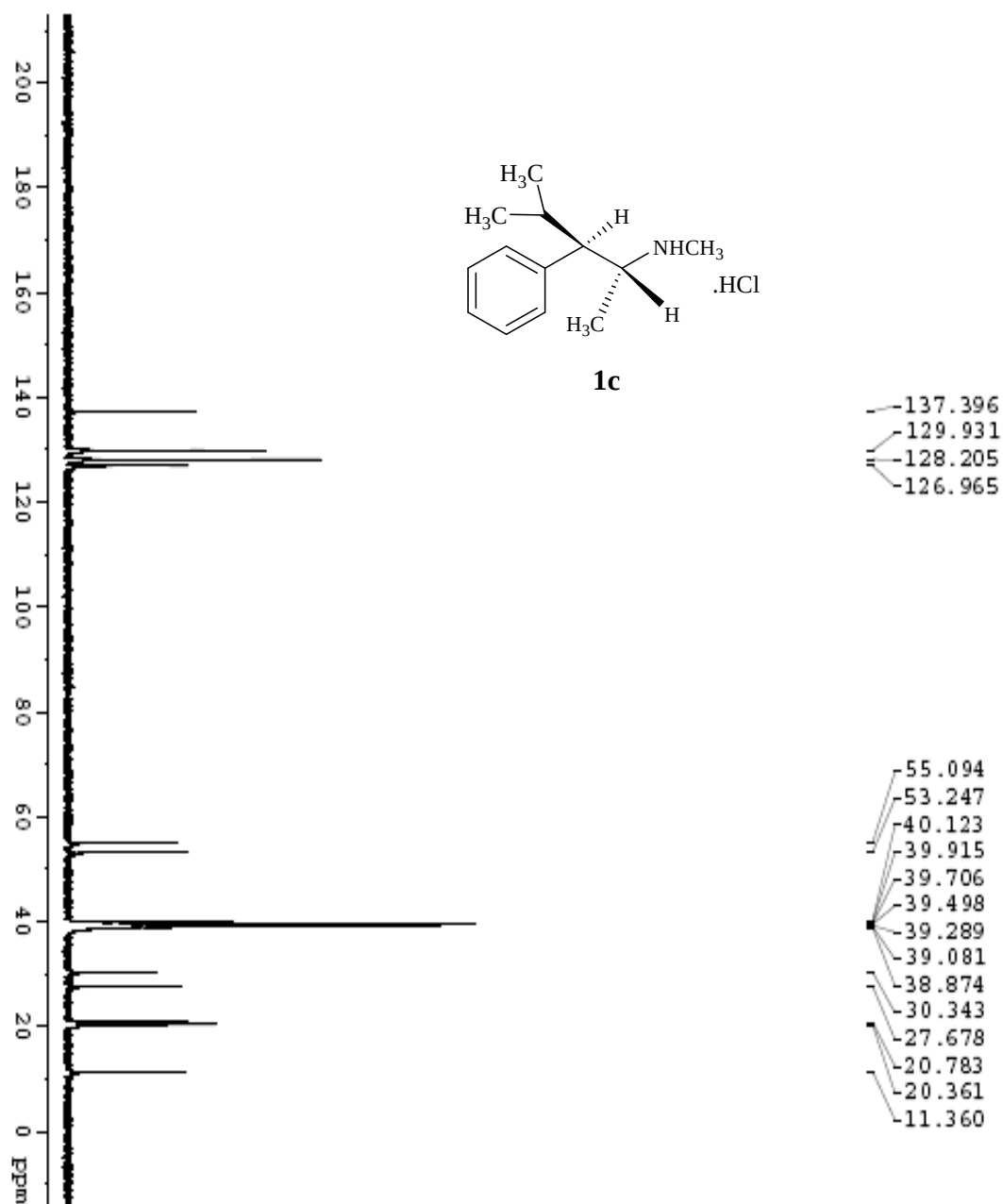


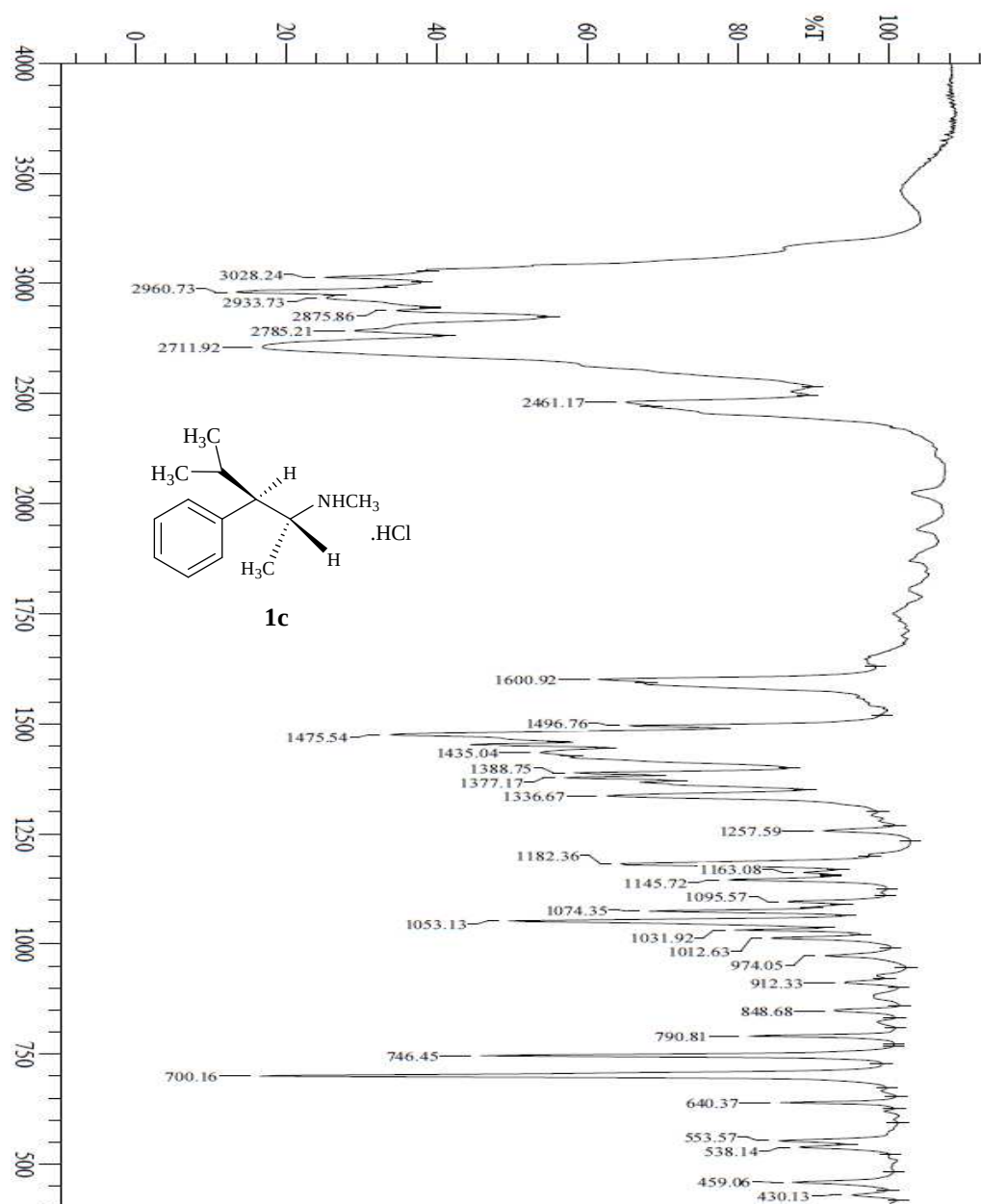
IR spectrum (KBr cm^{-1})

Mass spectrum (ESI, (+)-mode)

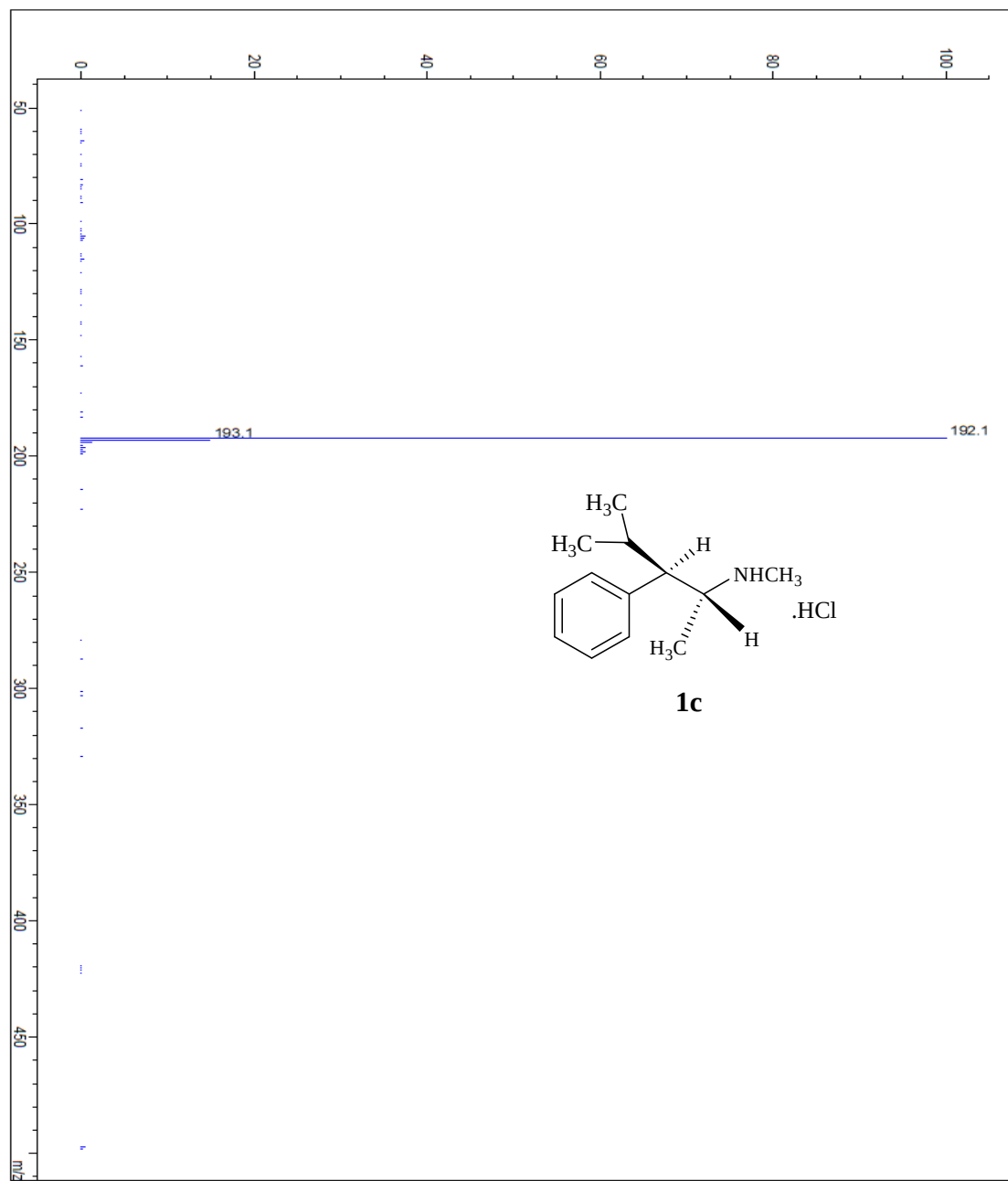


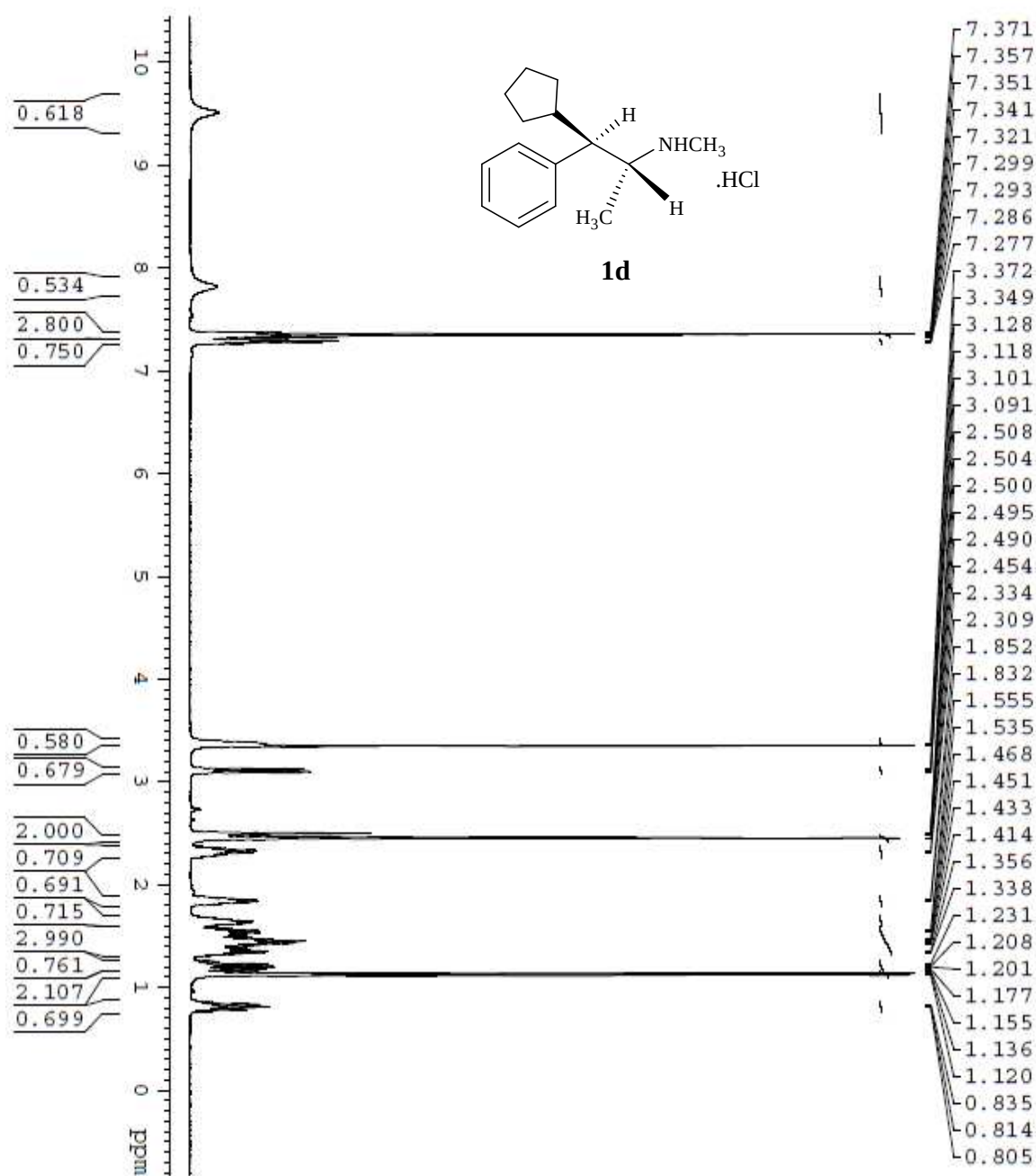
1-Isopropyl-1-phenyl-2-methylaminopropane hydrochloride (Compound 5c). ^1H NMR (DMSO- d_6 , 400 MHz)

^{13}C NMR (DMSO- d_6 , 100 MHz)

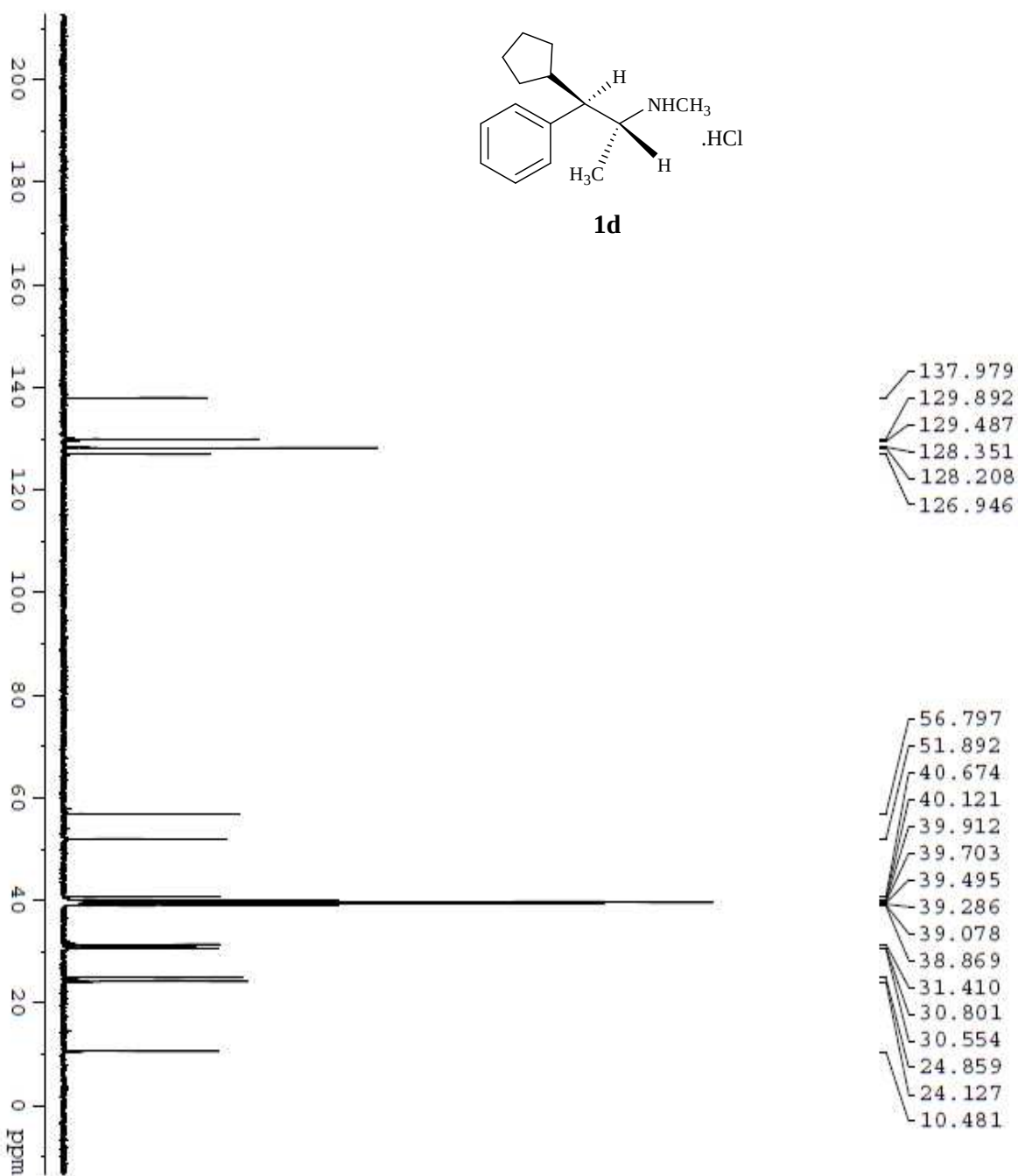
IR spectrum (KBr cm^{-1})

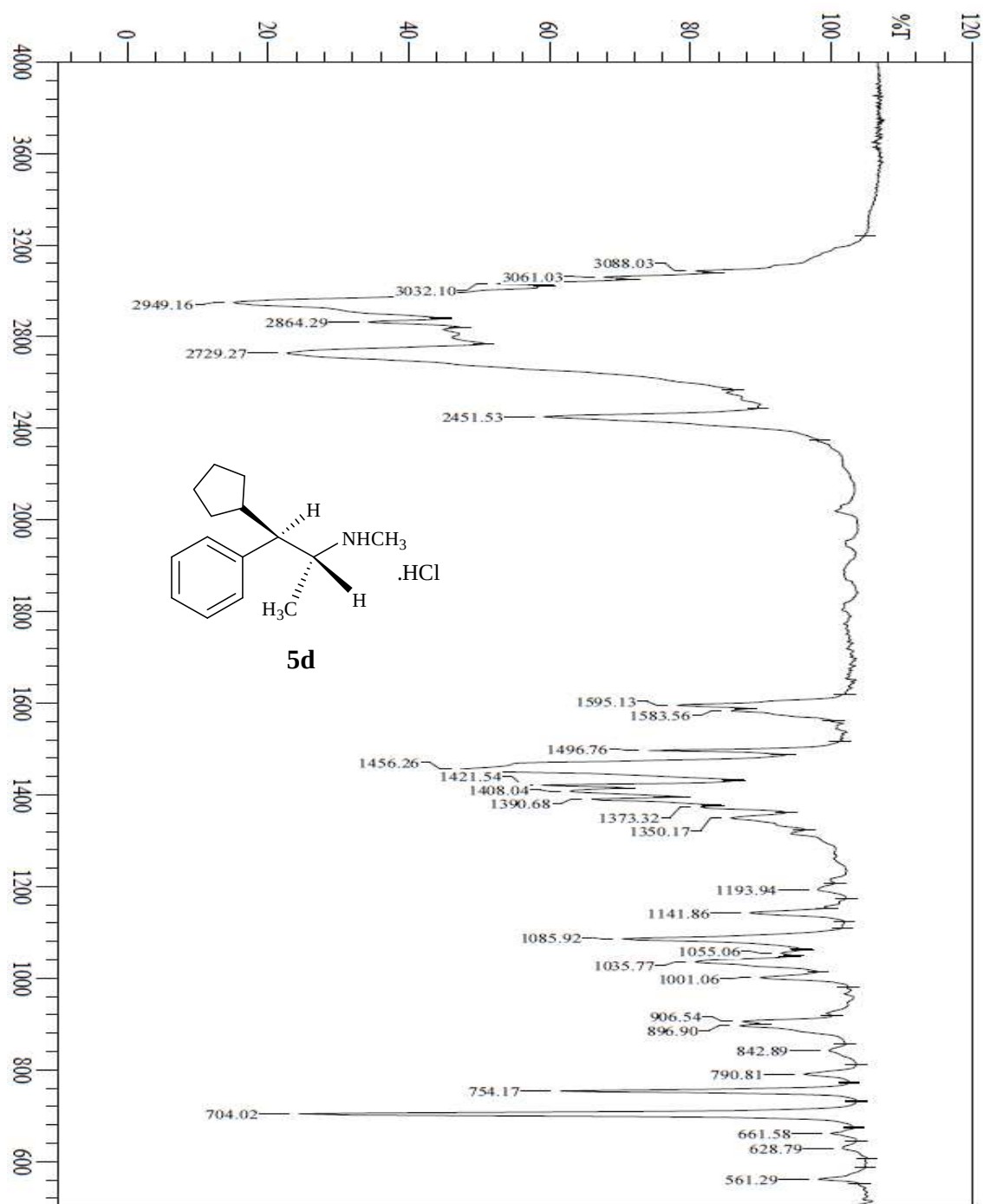
Mass spectrum (ESI, (+)-mode)



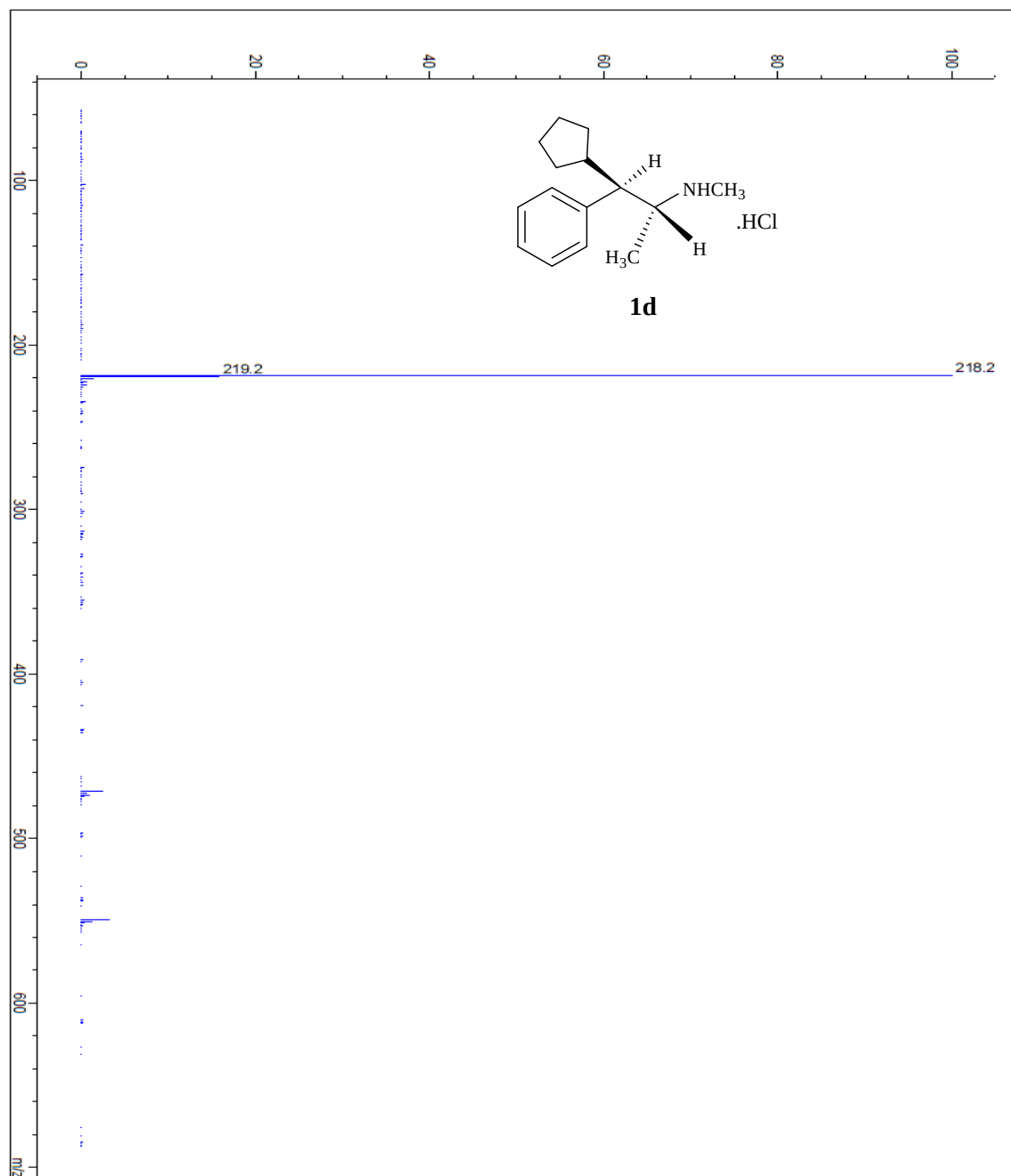
1-Cyclopentyl-1-phenyl-2-methylaminopropane (Compound 1d).¹H NMR (DMSO-d₆, 400 MHz)

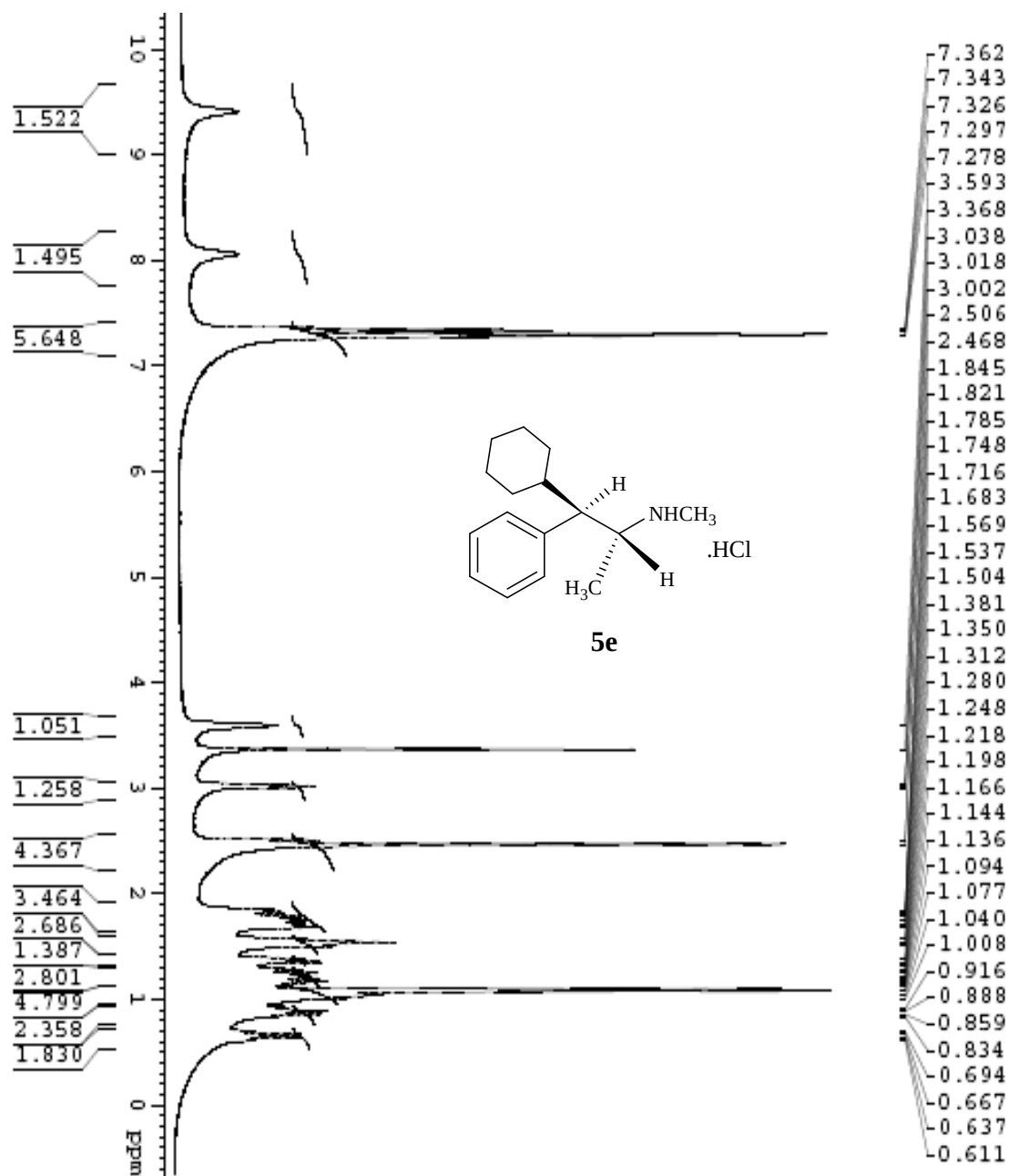
^{13}C NMR (DMSO- d_6 , 100 MHz)



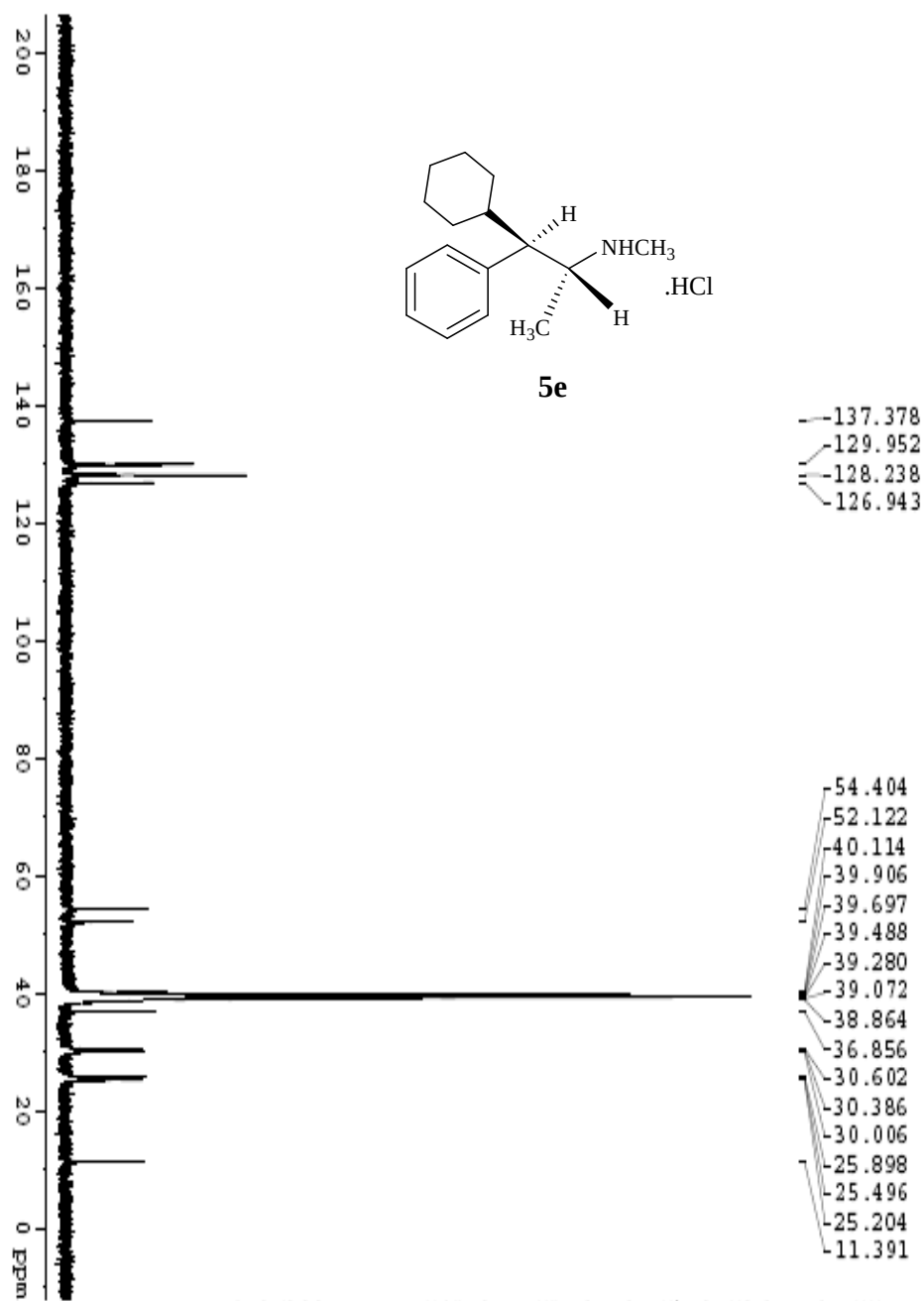
IR spectrum (KBr cm^{-1})

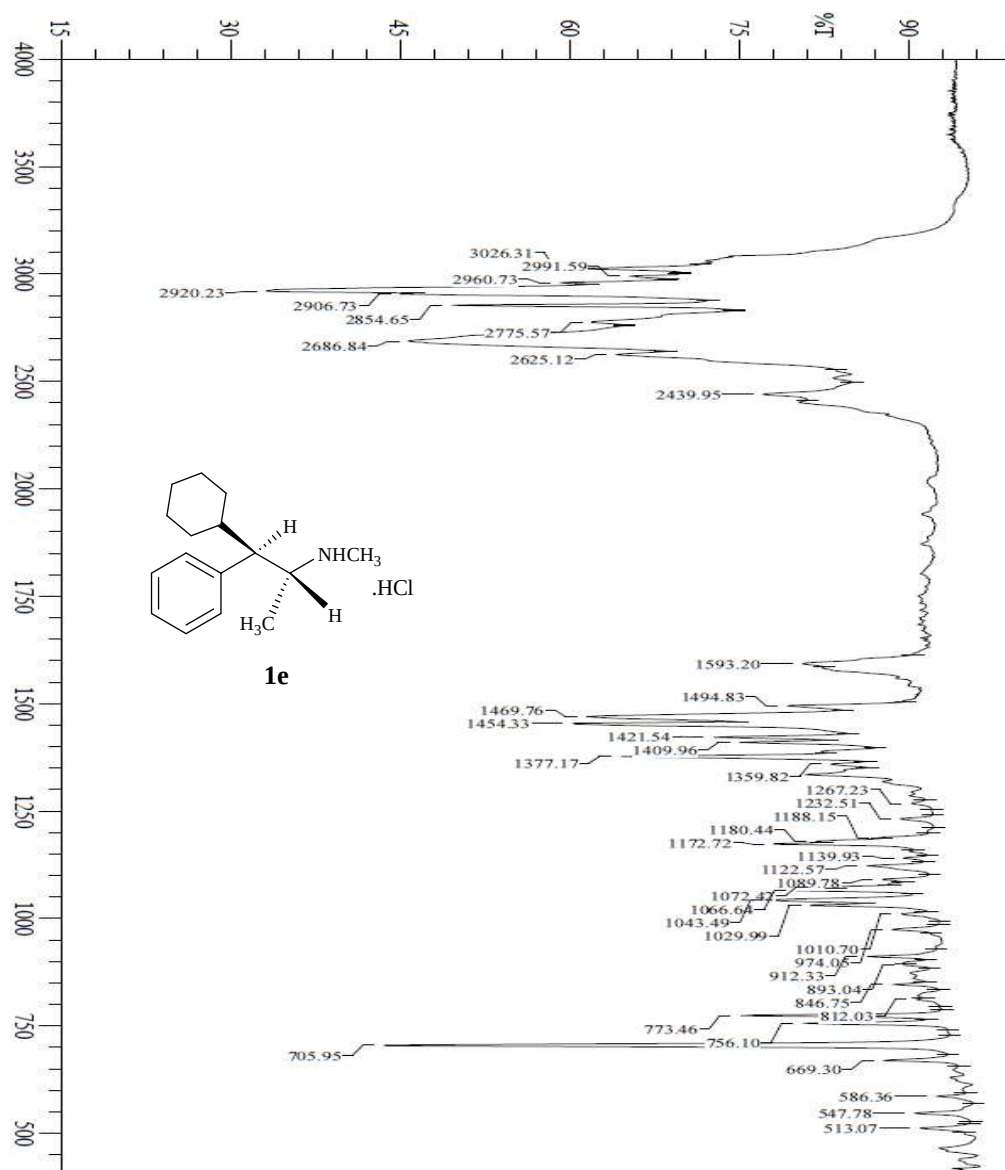
Mass spectrum (ESI, (+)-mode)



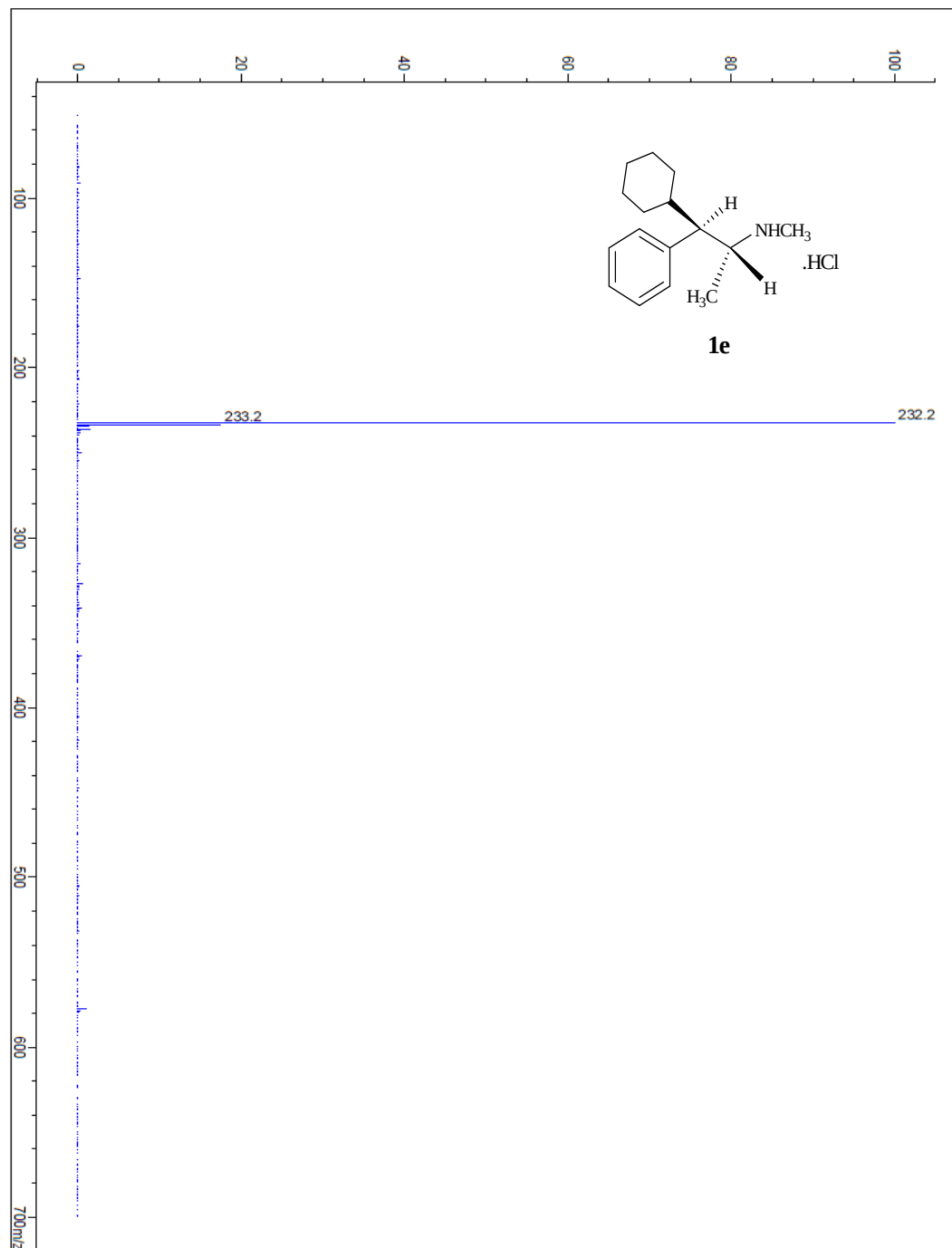
1-Cyclohexyl-1-phenyl-2-methylaminopropane (Compound 1e) ^1H NMR (DMSO- d_6 , 400 MHz)

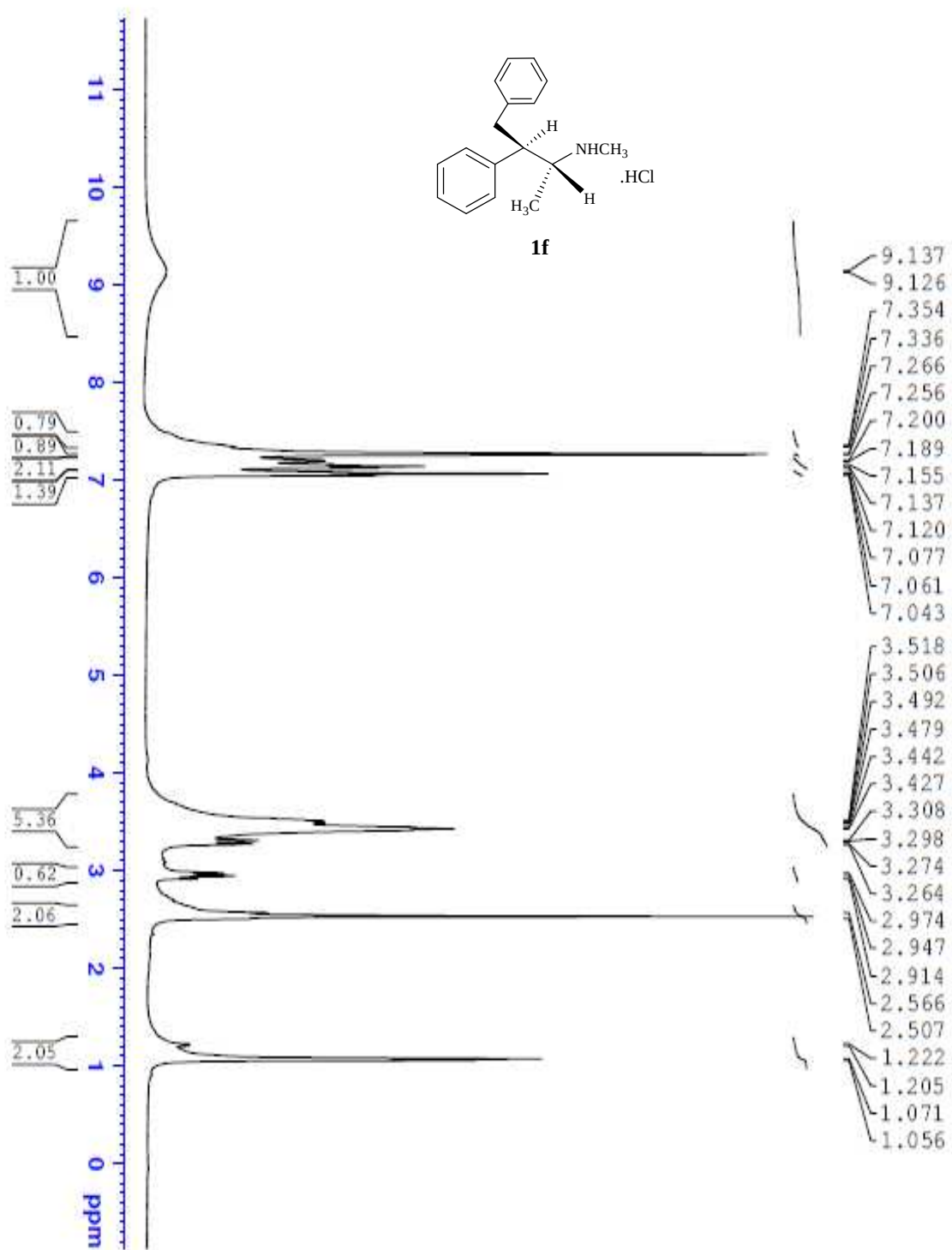
^{13}C NMR (DMSO- d_6 , 100 MHz)

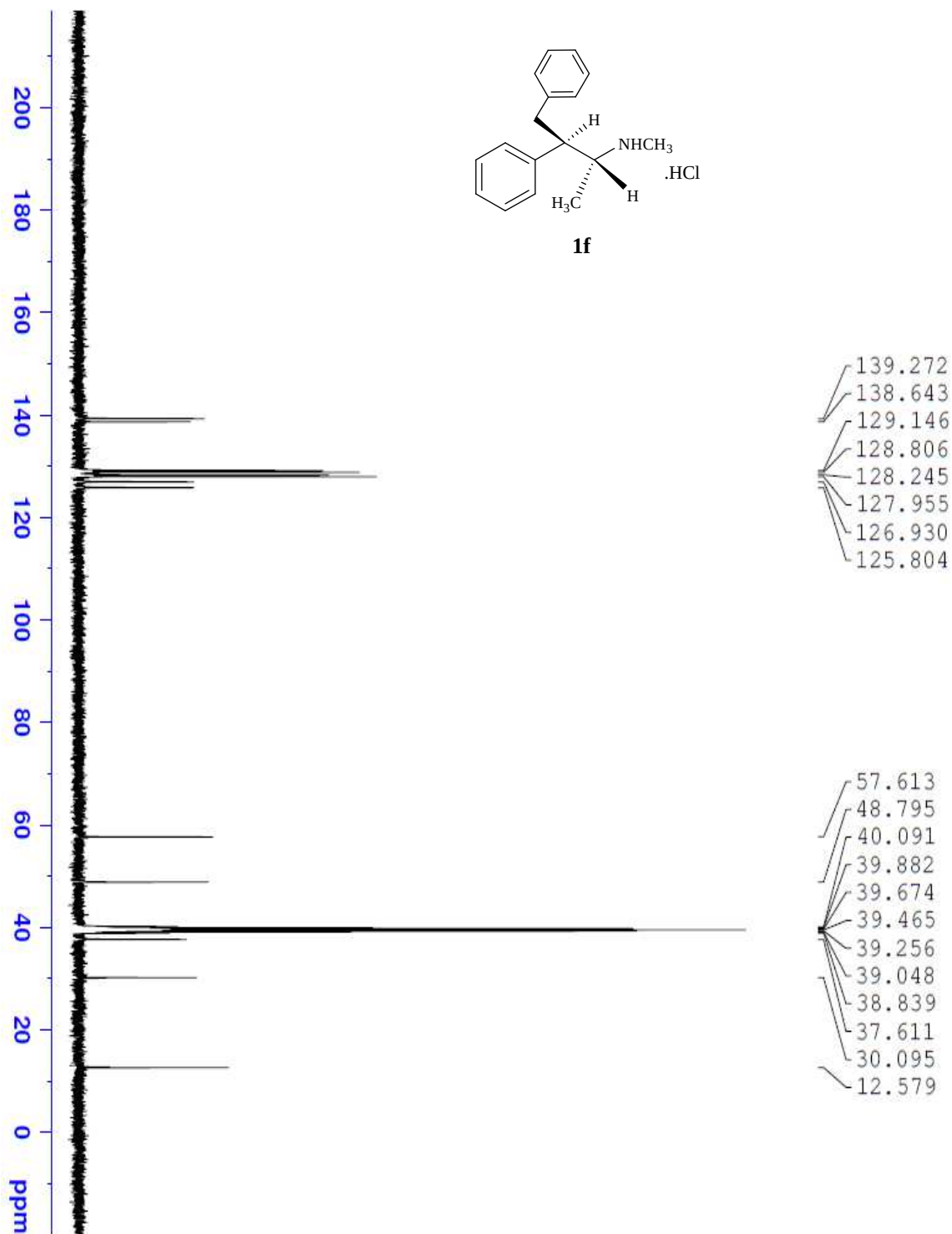


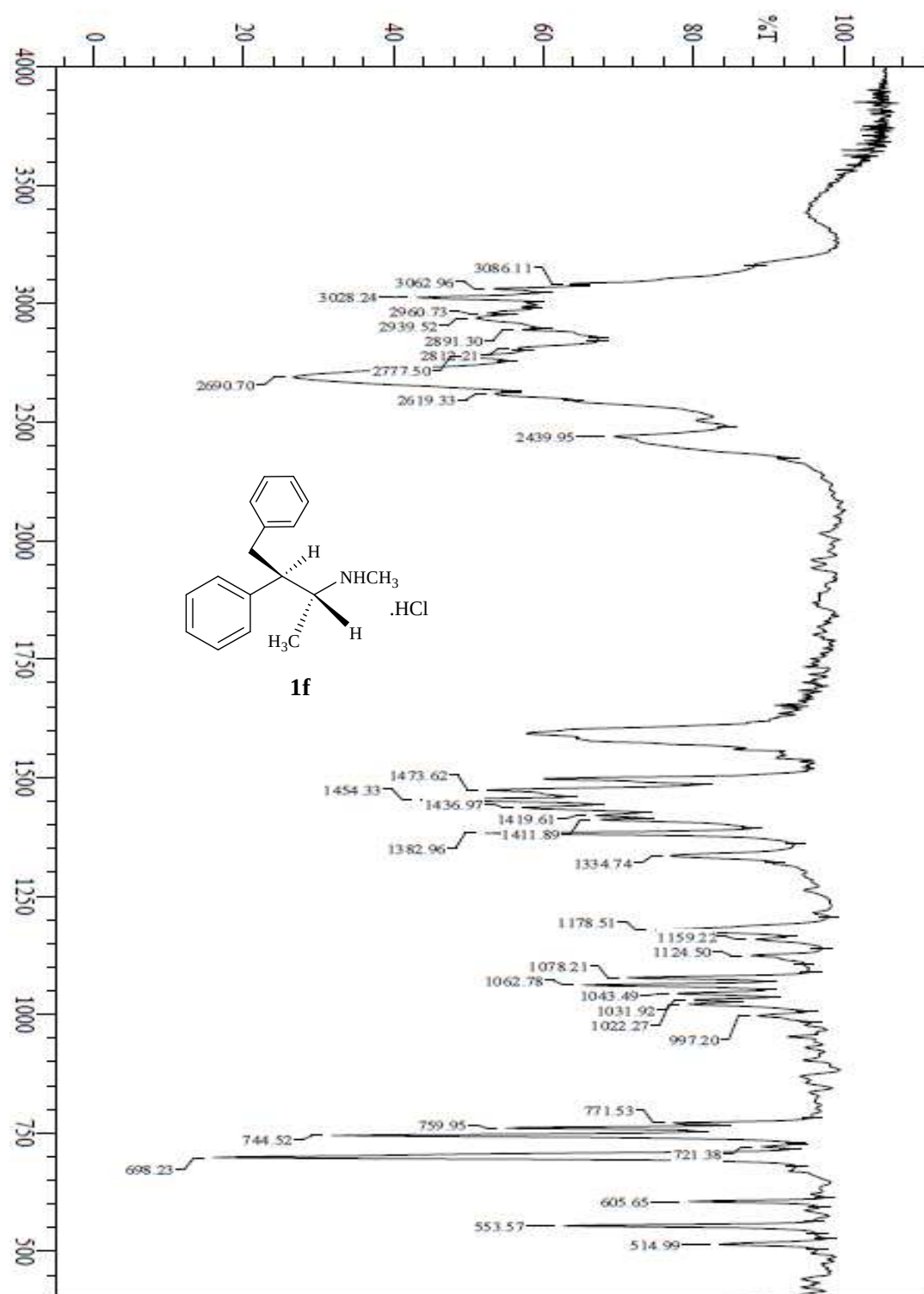
IR spectrum (KBr cm^{-1})

Mass spectrum (ESI, (+)-mode)

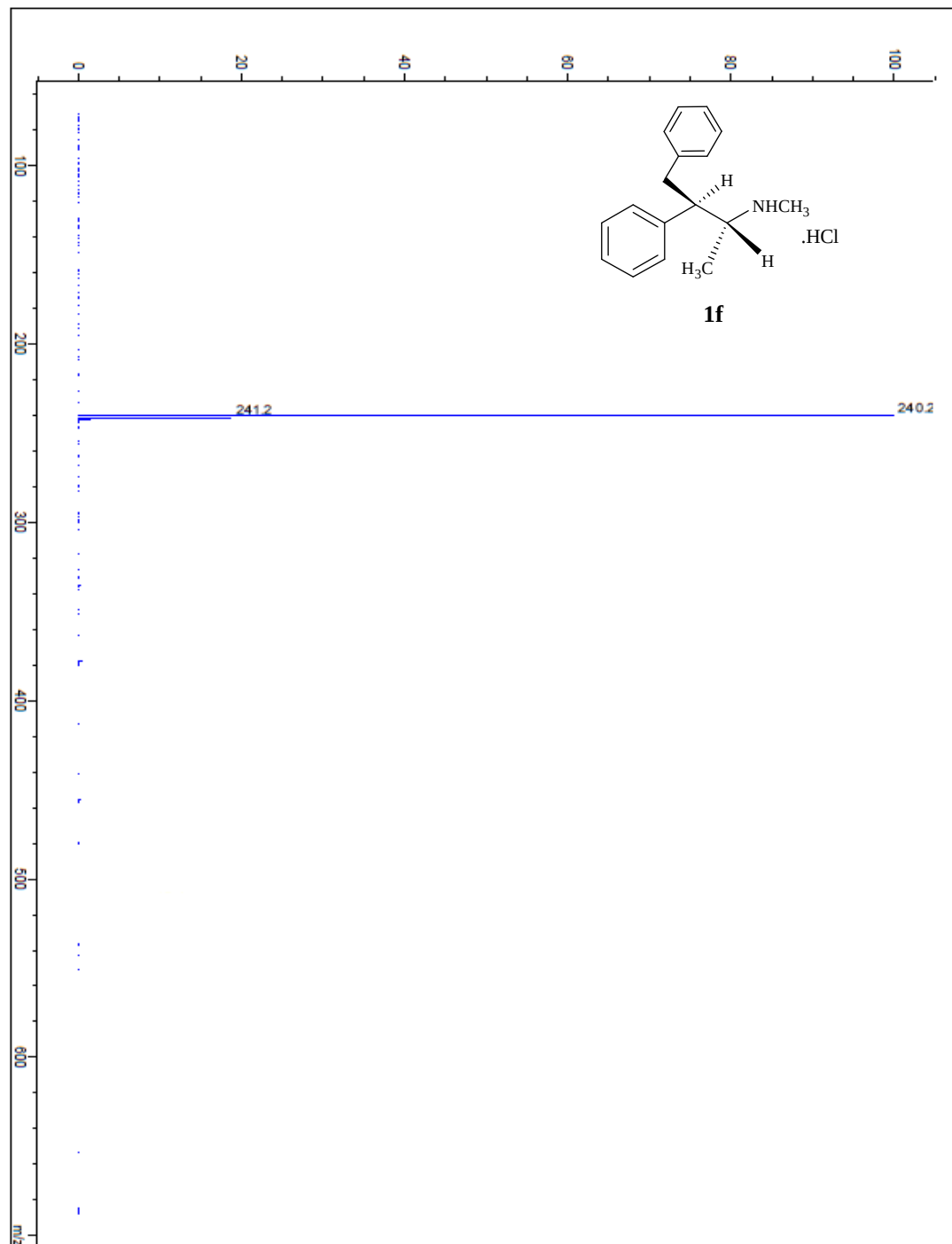


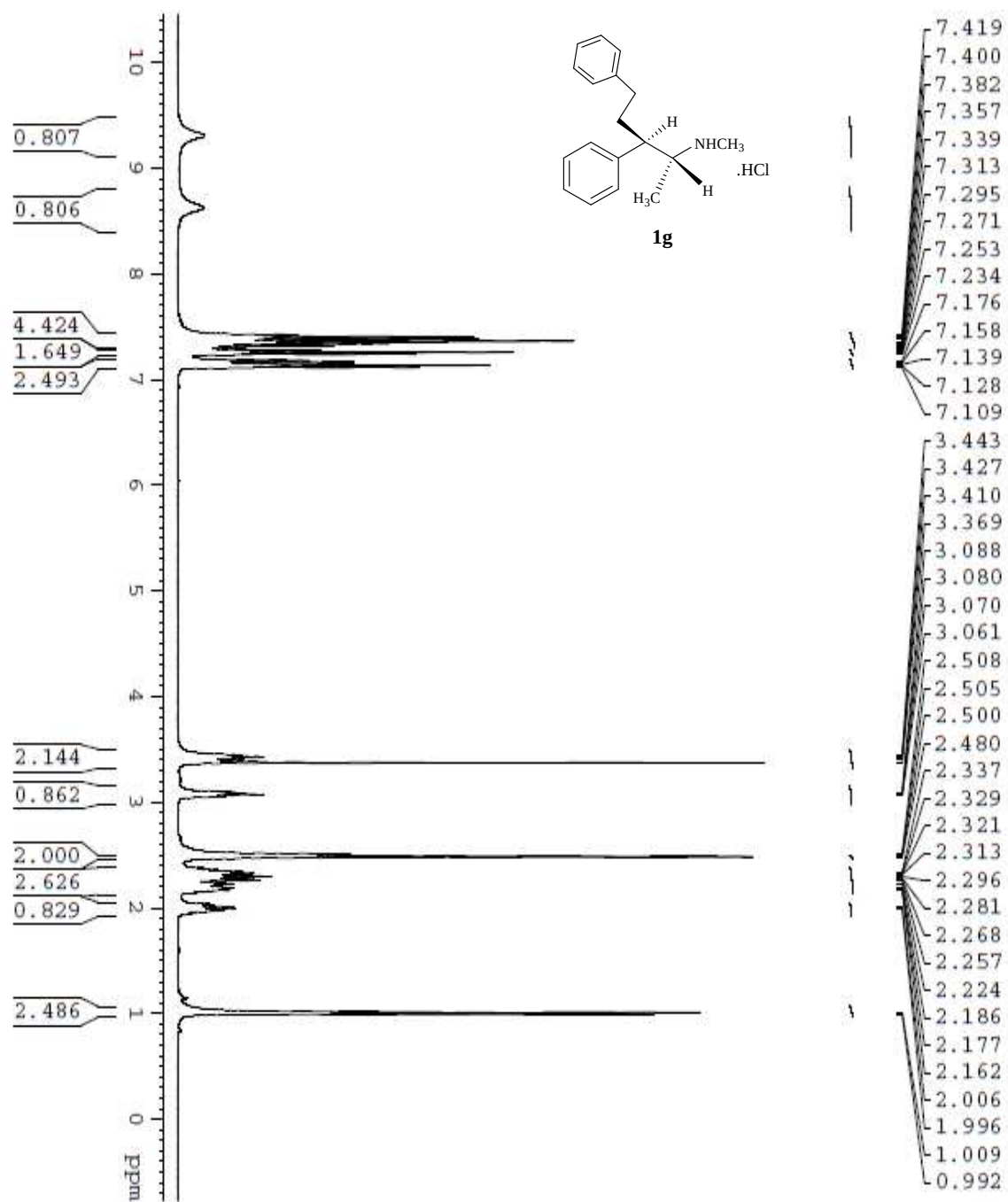
1-Benzyl-1-phenyl-2-methylaminopropane (Compound 1f) ^1H NMR (DMSO- d_6 , 400 MHz)

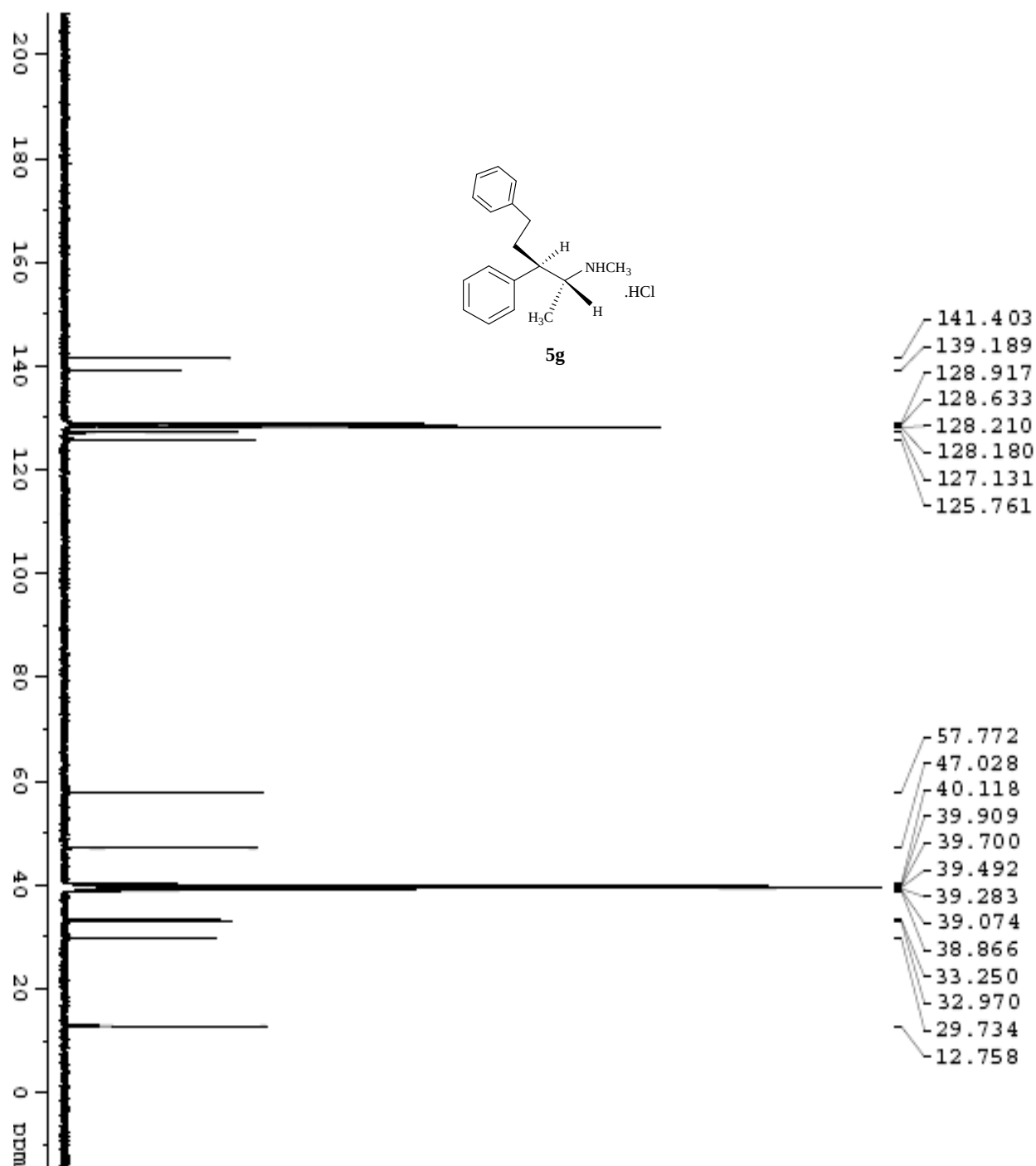
^{13}C NMR (DMSO- d_6 , 100 MHz)

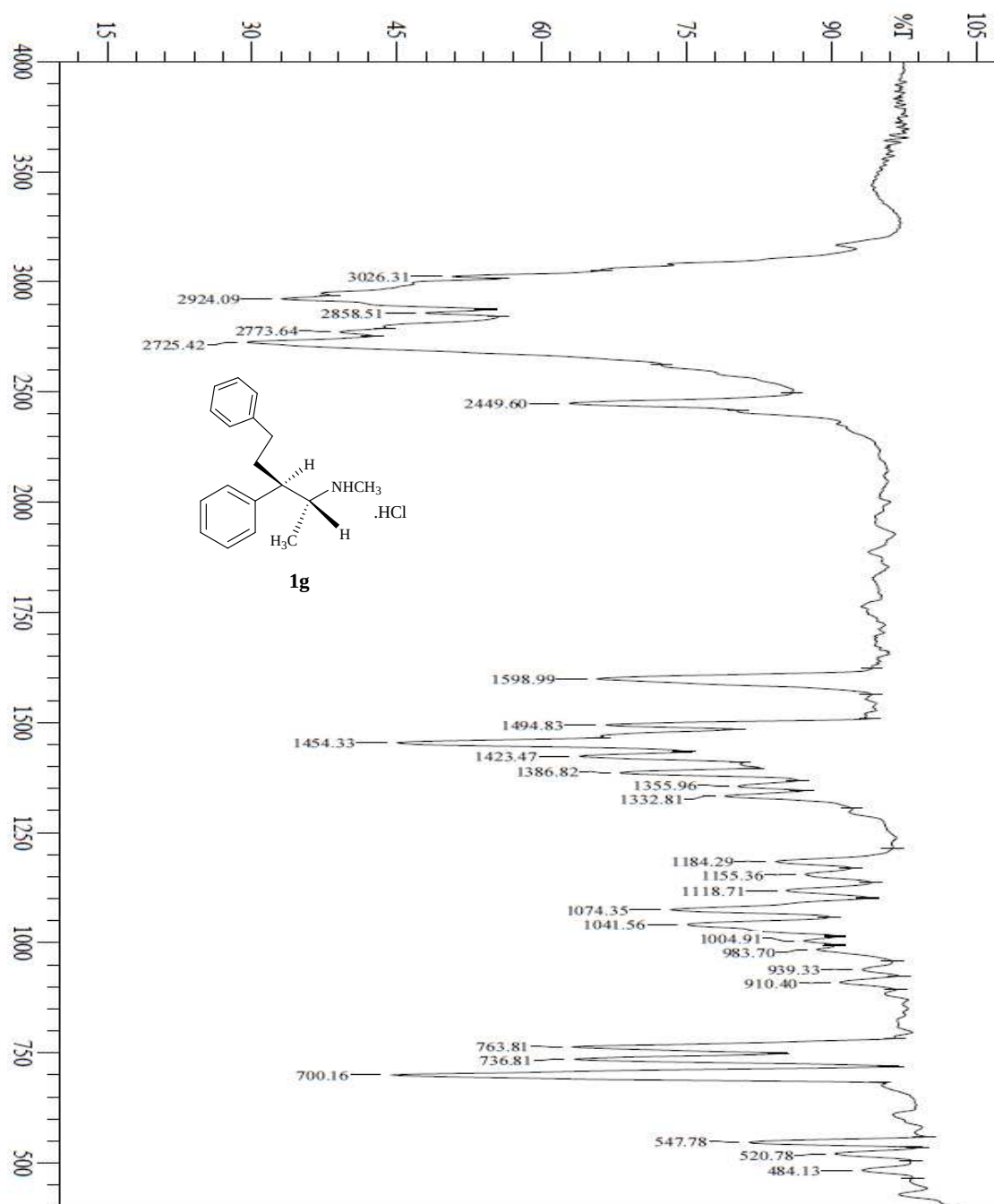
IR spectrum (KBr cm^{-1})

Mass spectrum (ESI, (+)-mode)



1-(2-phenylethyl)-1-phenyl-2-methylaminopropane (Compound 1g). ^1H NMR (DMSO- d_6 , 400 MHz)

^{13}C NMR (DMSO- d_6 , 100 MHz)

IR spectrum (KBr cm^{-1})

Mass spectrum (ESI, (+)-mode)

