

APPENDIX 4

*Spectra Relevant to Chapter 2:
Acyl-Amination of Arenes via Aryne Formation*

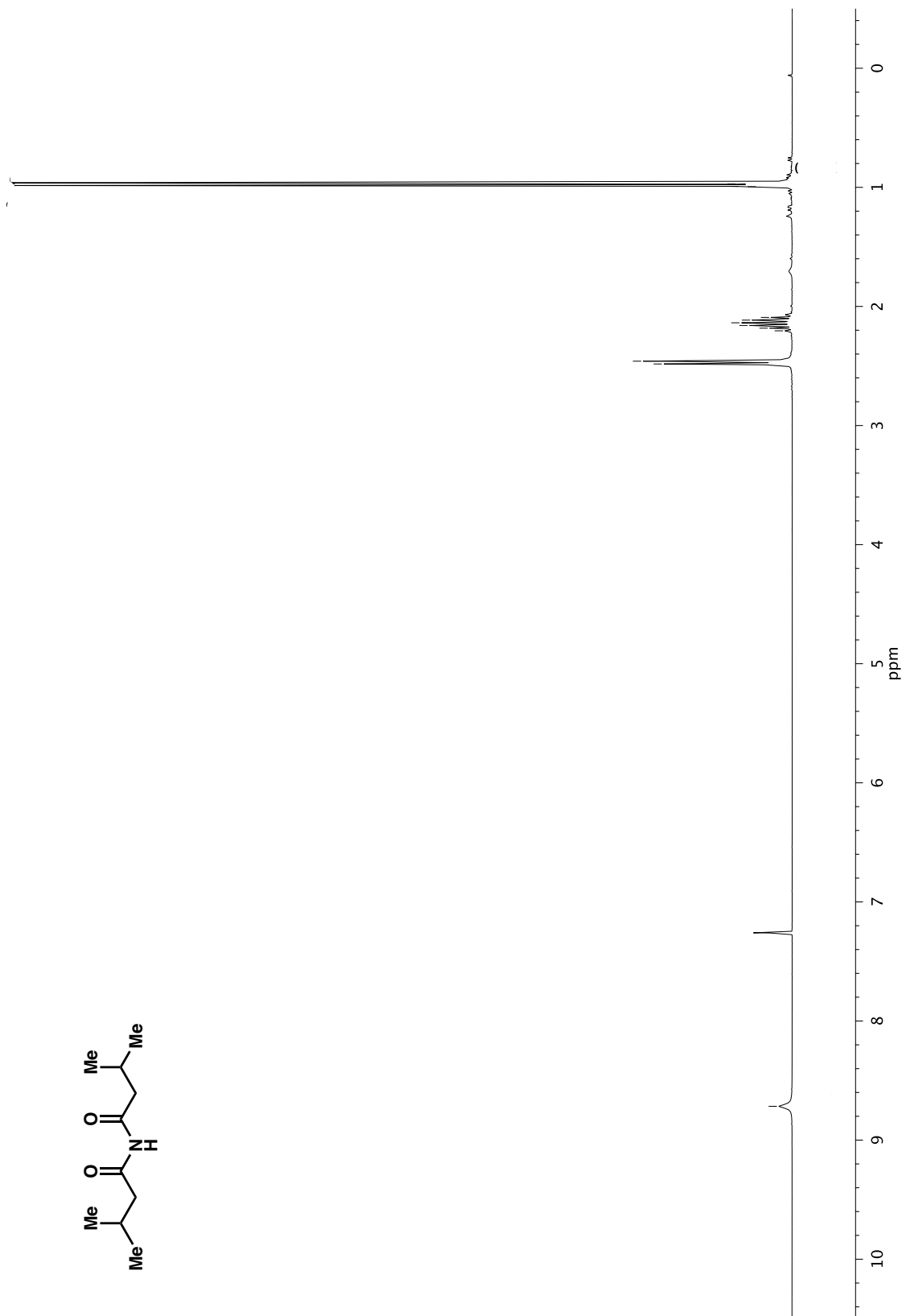


Figure A4.1 ^1H NMR (400 MHz, CDCl_3) of compound **109**

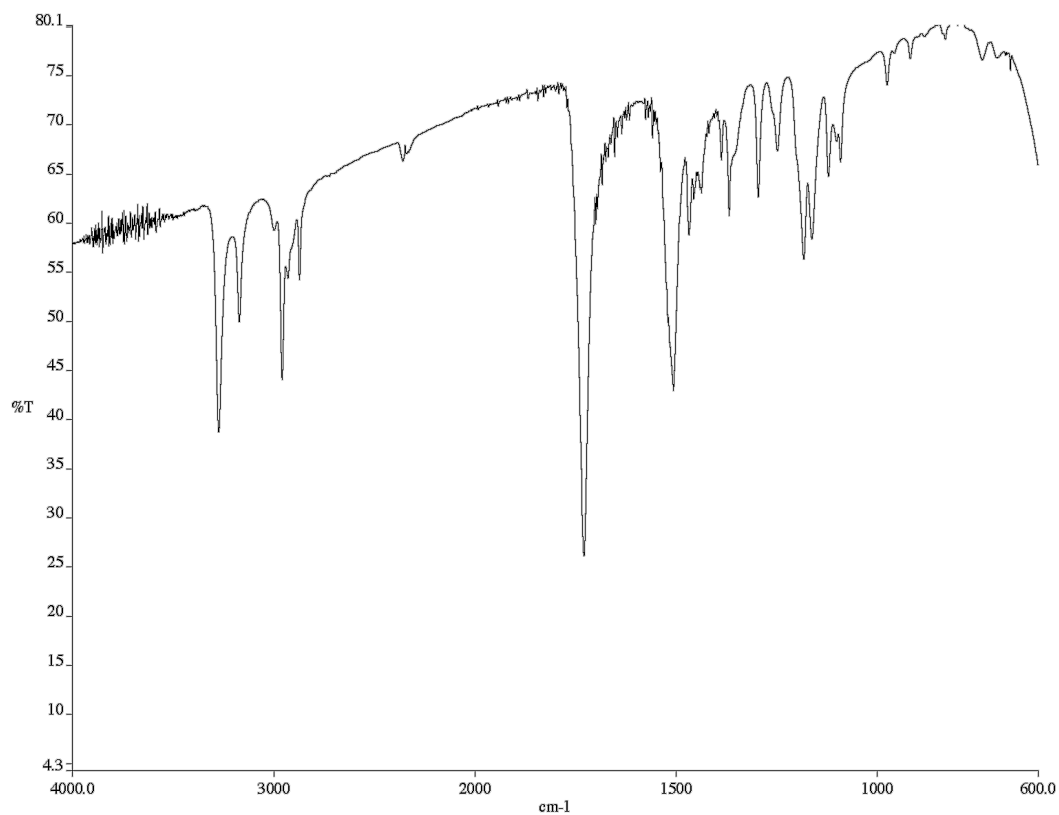


Figure A4.2 Infrared spectrum (Thin Film, NaCl) of compound **109**

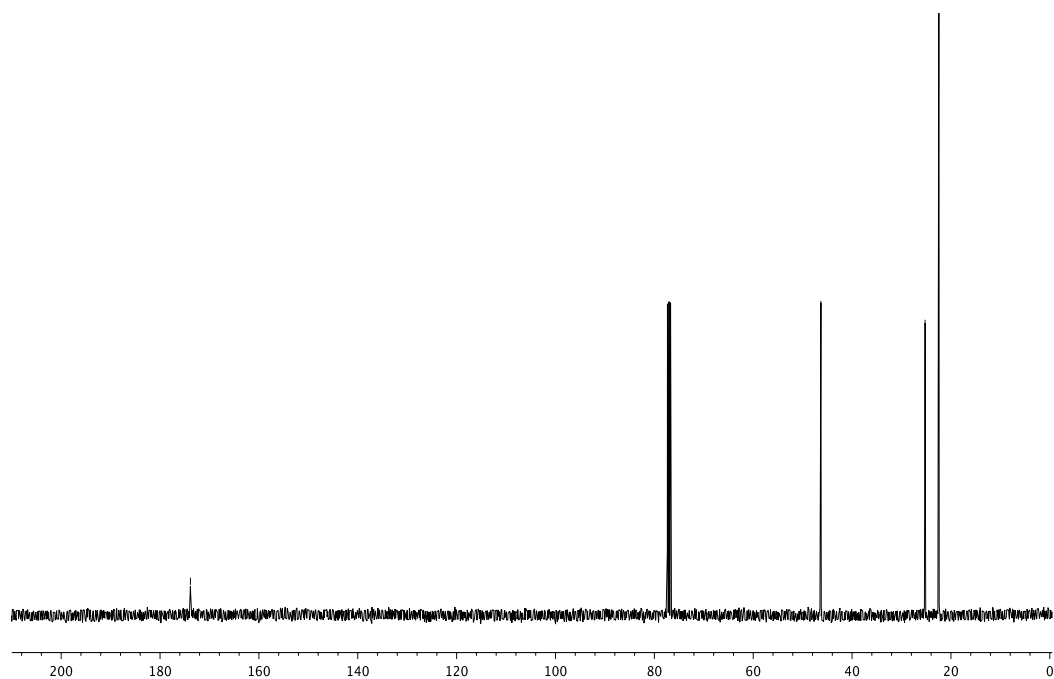


Figure A4.3 ^{13}C NMR (101 MHz, CDCl_3) of compound **109**

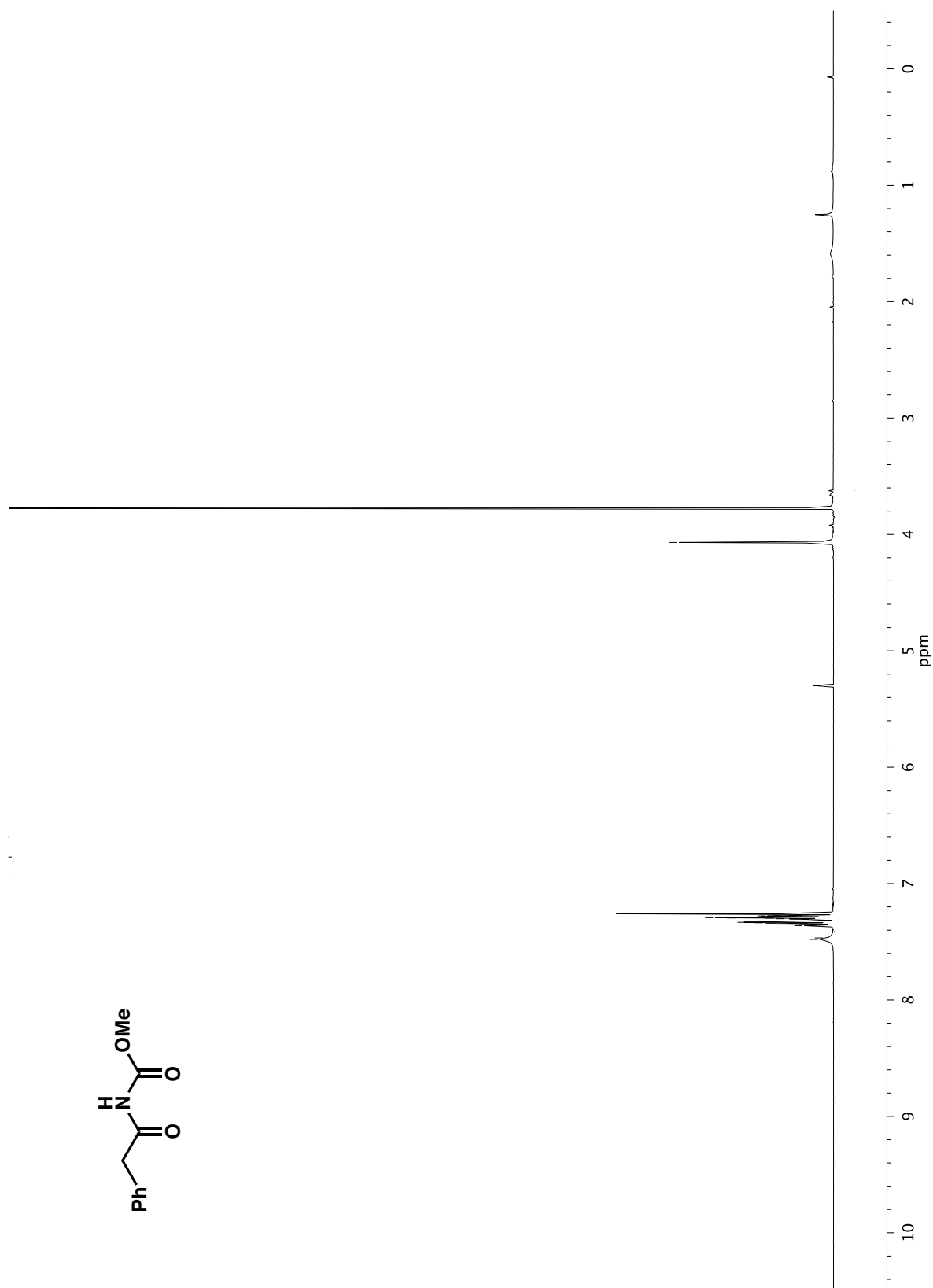


Figure A4.4 ^1H NMR (400 MHz, CDCl_3) of compound **112**

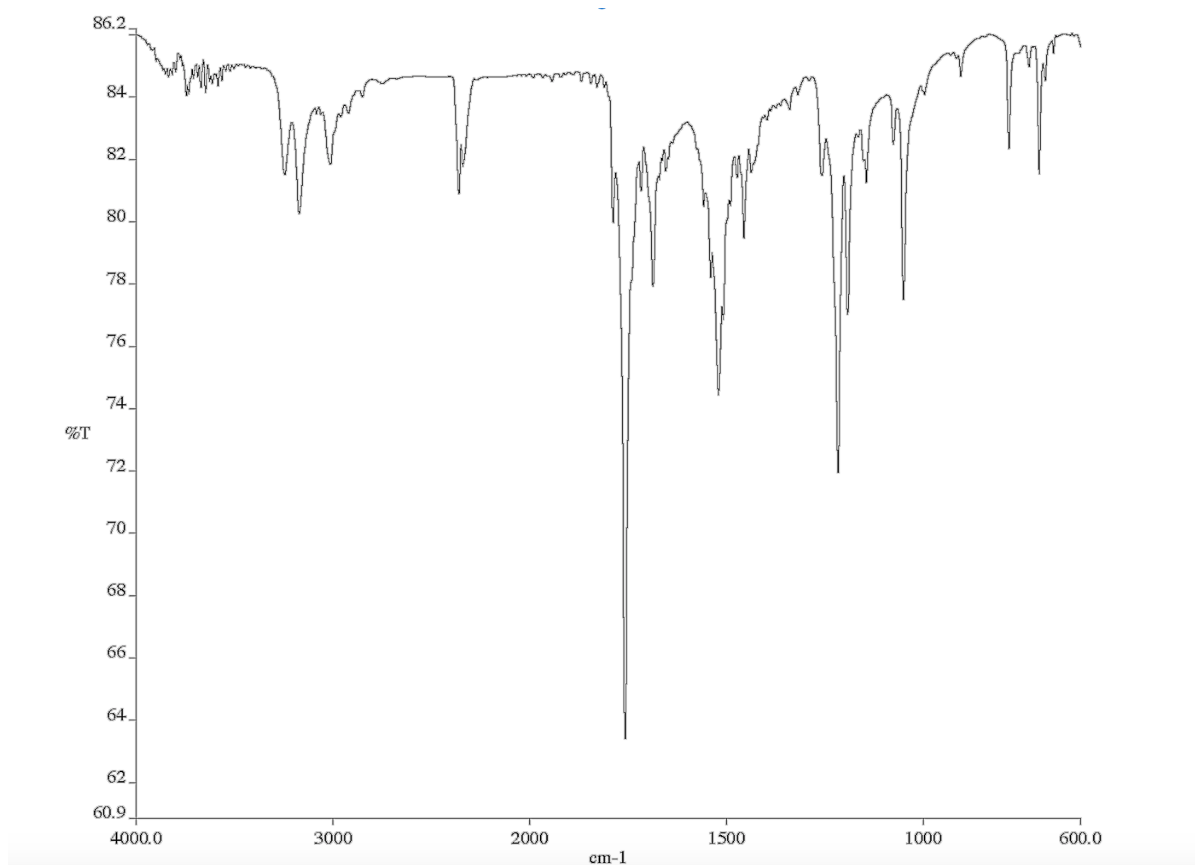


Figure A4.5 Infrared spectrum (Thin Film, NaCl) of compound **112**

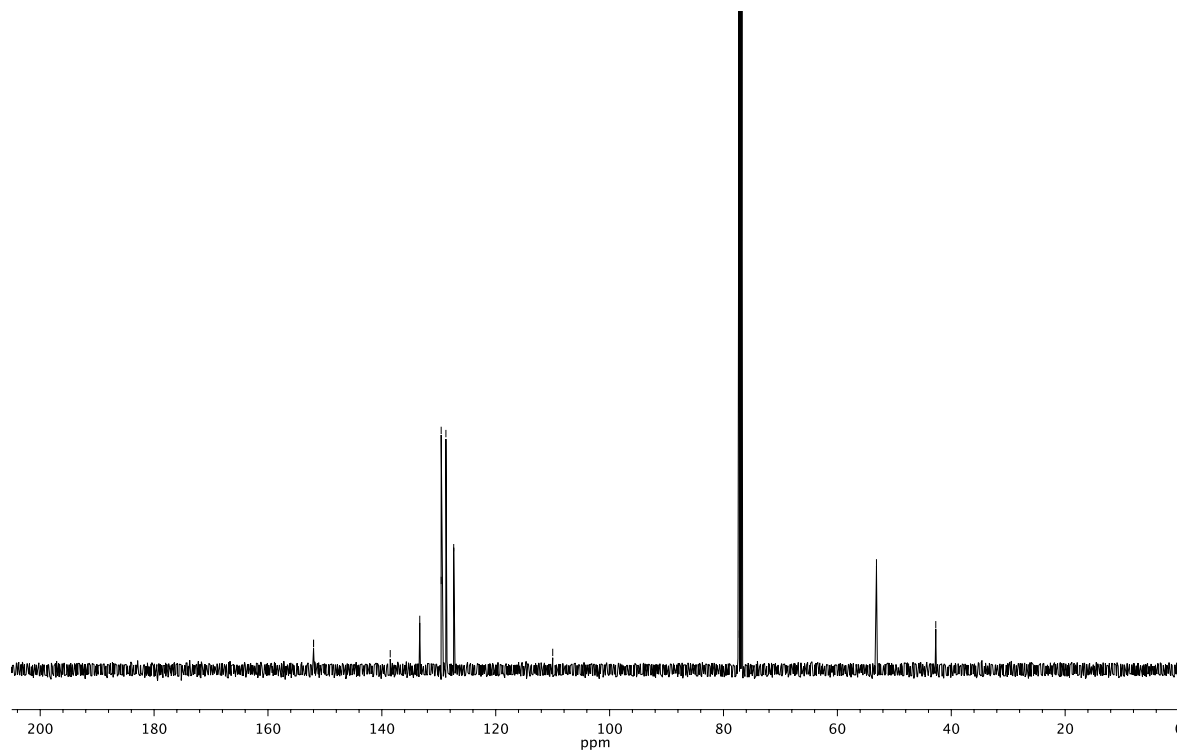


Figure A4.6 ^{13}C NMR (101 MHz, CDCl_3) of compound **112**

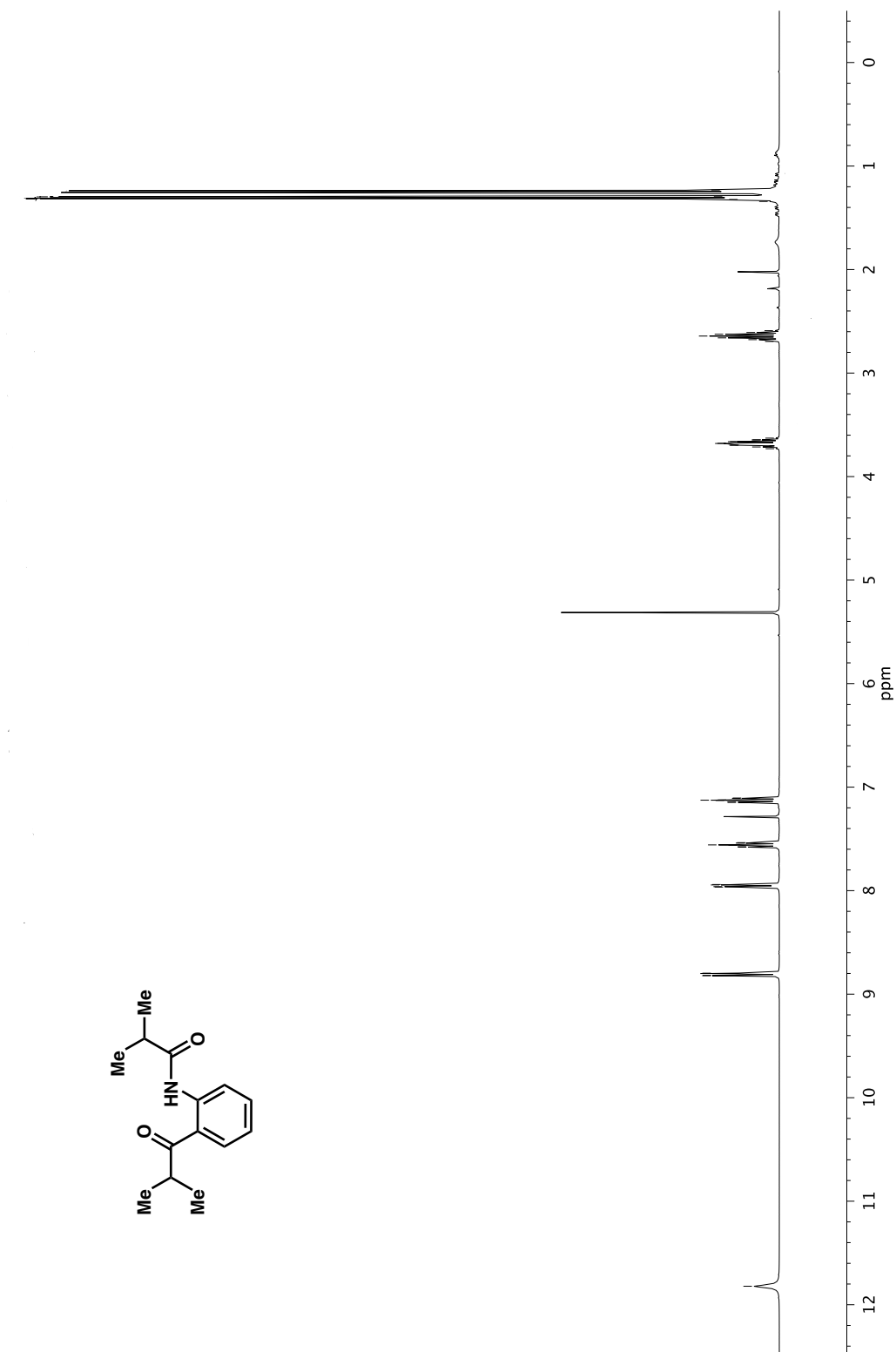


Figure A4.7 ^1H NMR (400 MHz, CDCl_3) of compound **104c**

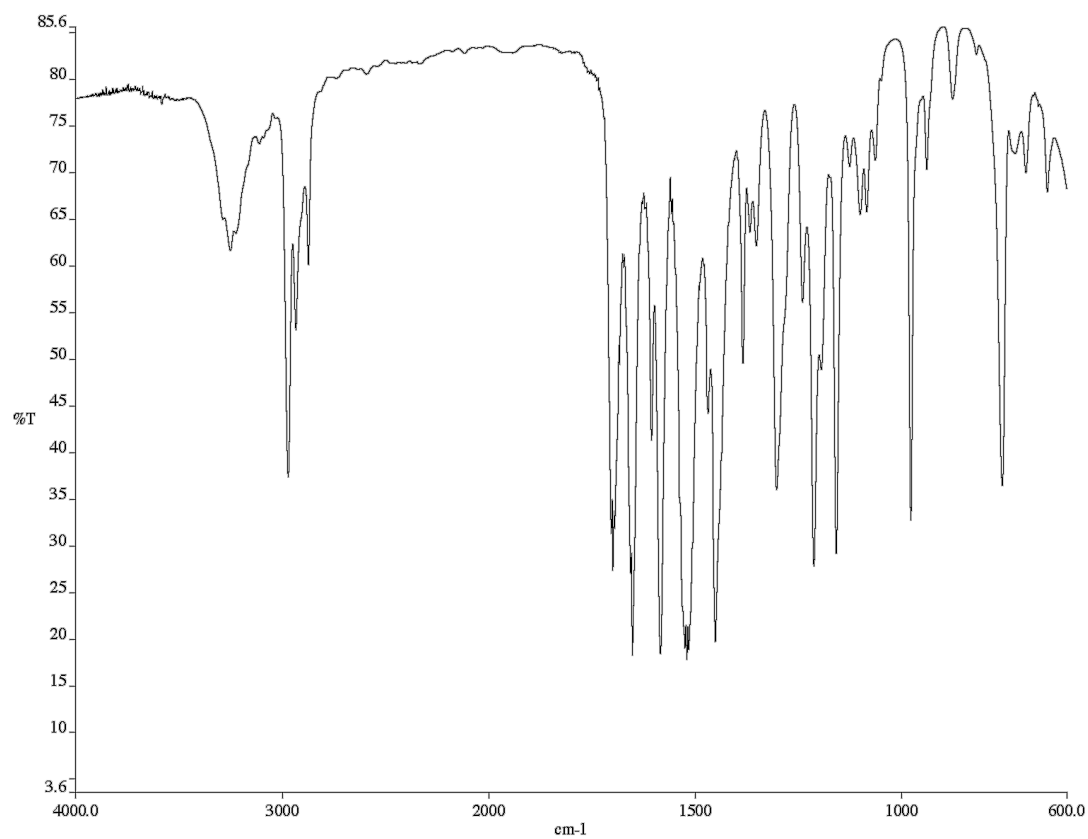


Figure A4.8 Infrared spectrum (Thin Film, NaCl) of compound **104c**

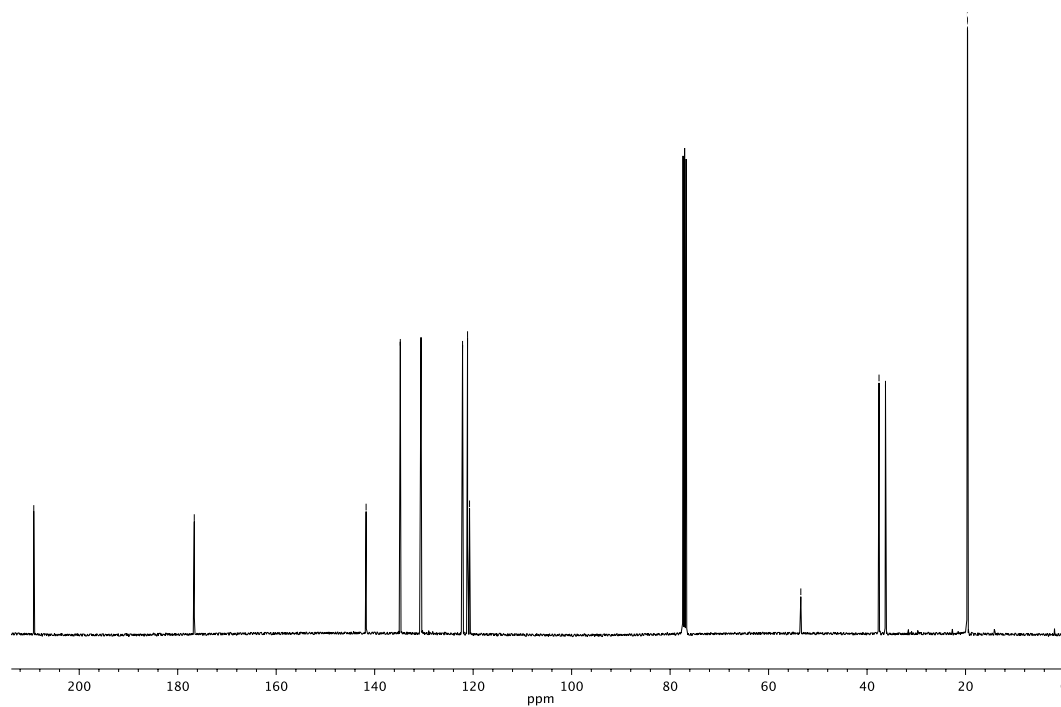


Figure A4.9 ¹³C NMR (101 MHz, CDCl₃) of compound **104c**

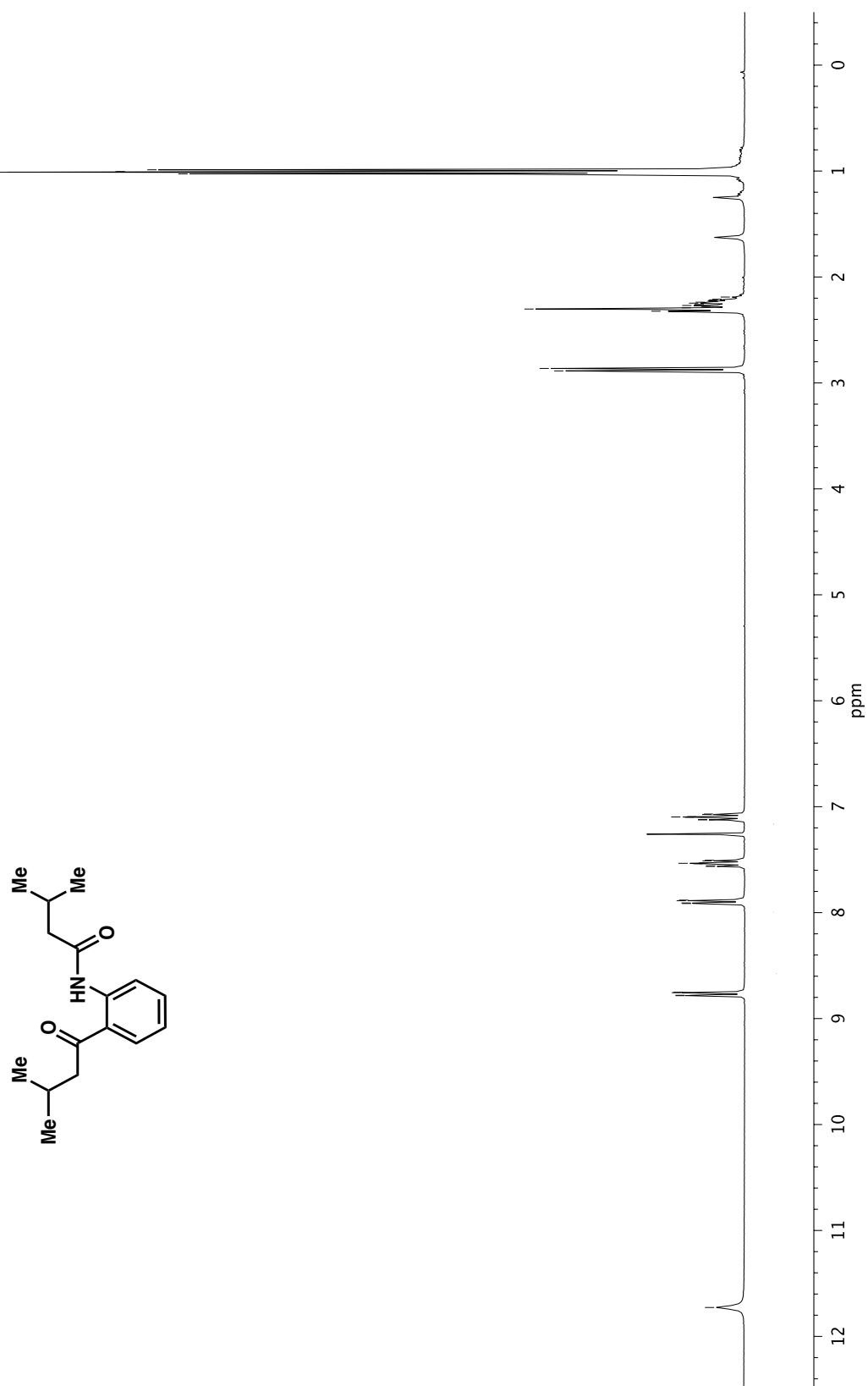


Figure A4.10 ^1H NMR (400 MHz, CDCl_3) of compound **104d**

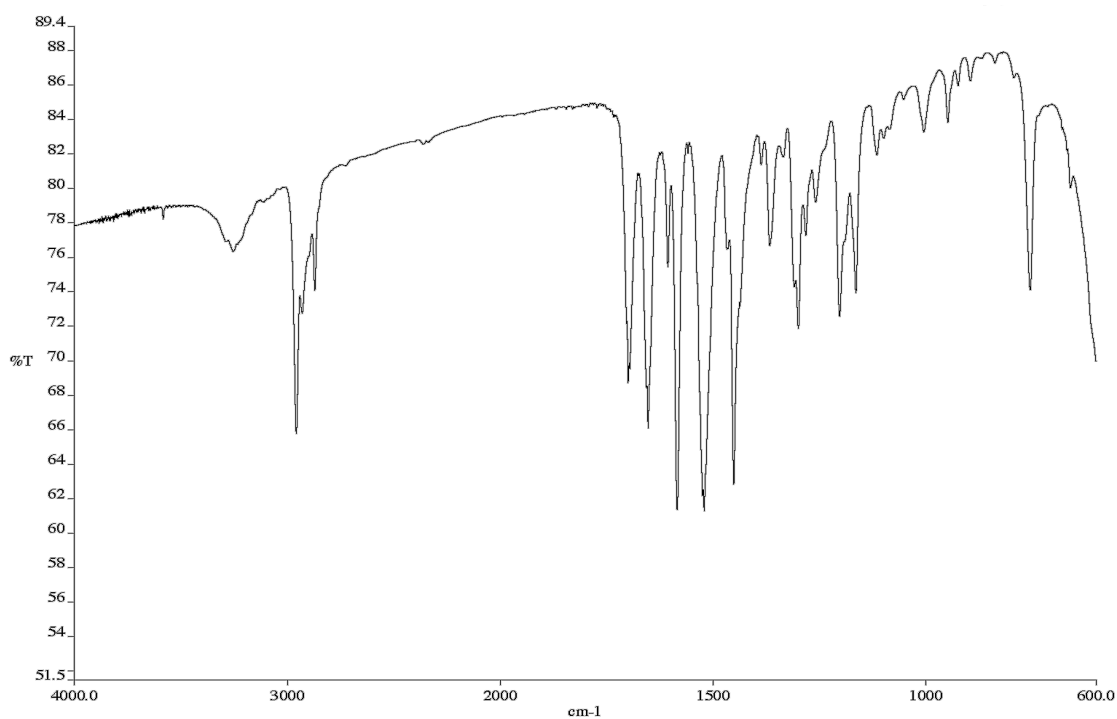


Figure A4.11 Infrared spectrum (Thin Film, NaCl) of compound **104d**

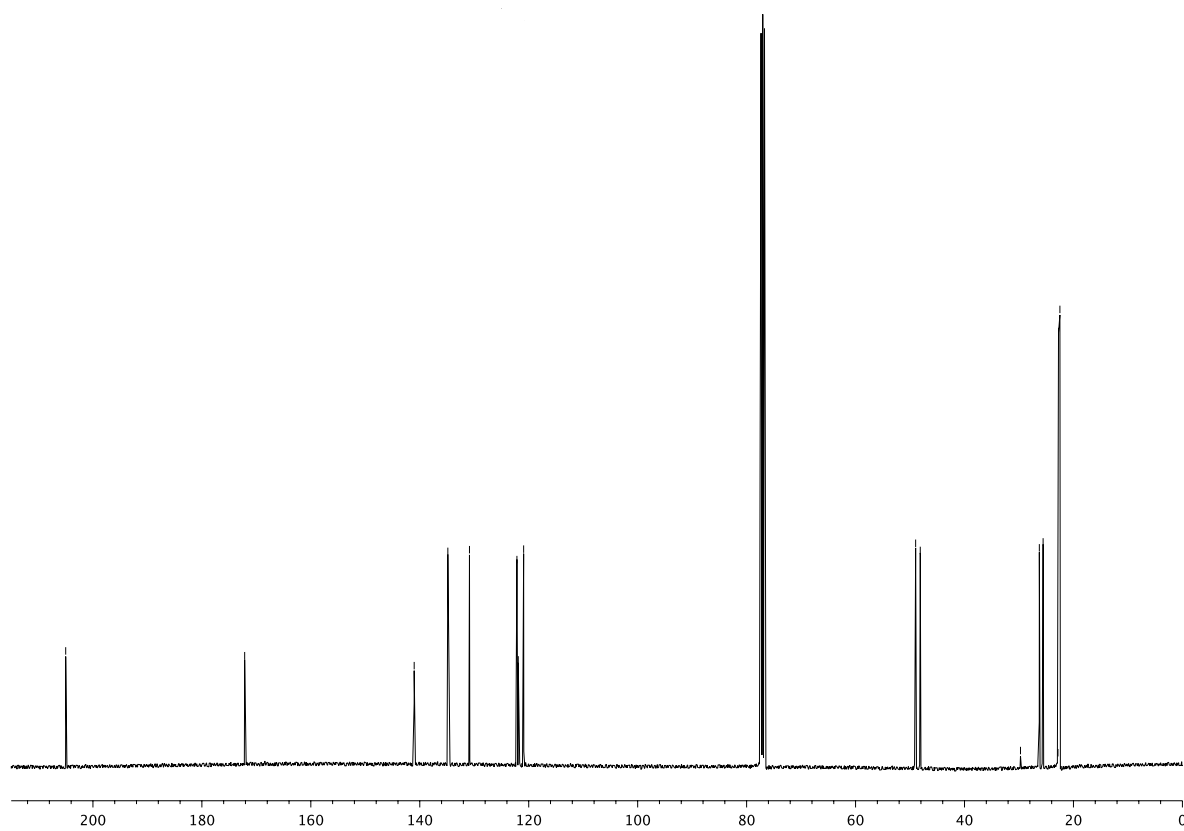


Figure A4.12 ¹³C NMR (101 MHz, CDCl₃) of compound **104d**

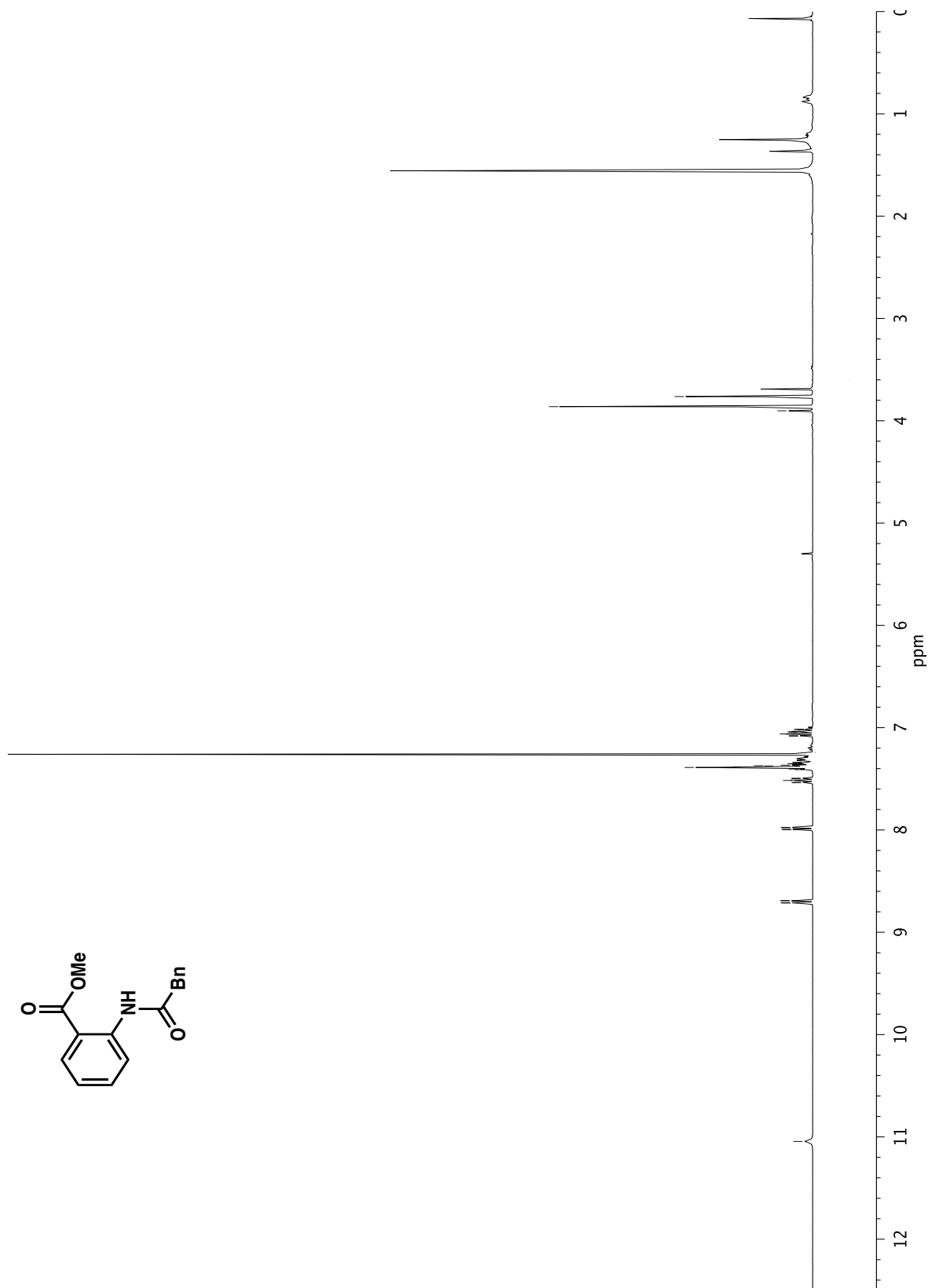


Figure A4.13 ¹H NMR (400 MHz, CDCl₃) of compound **104e**

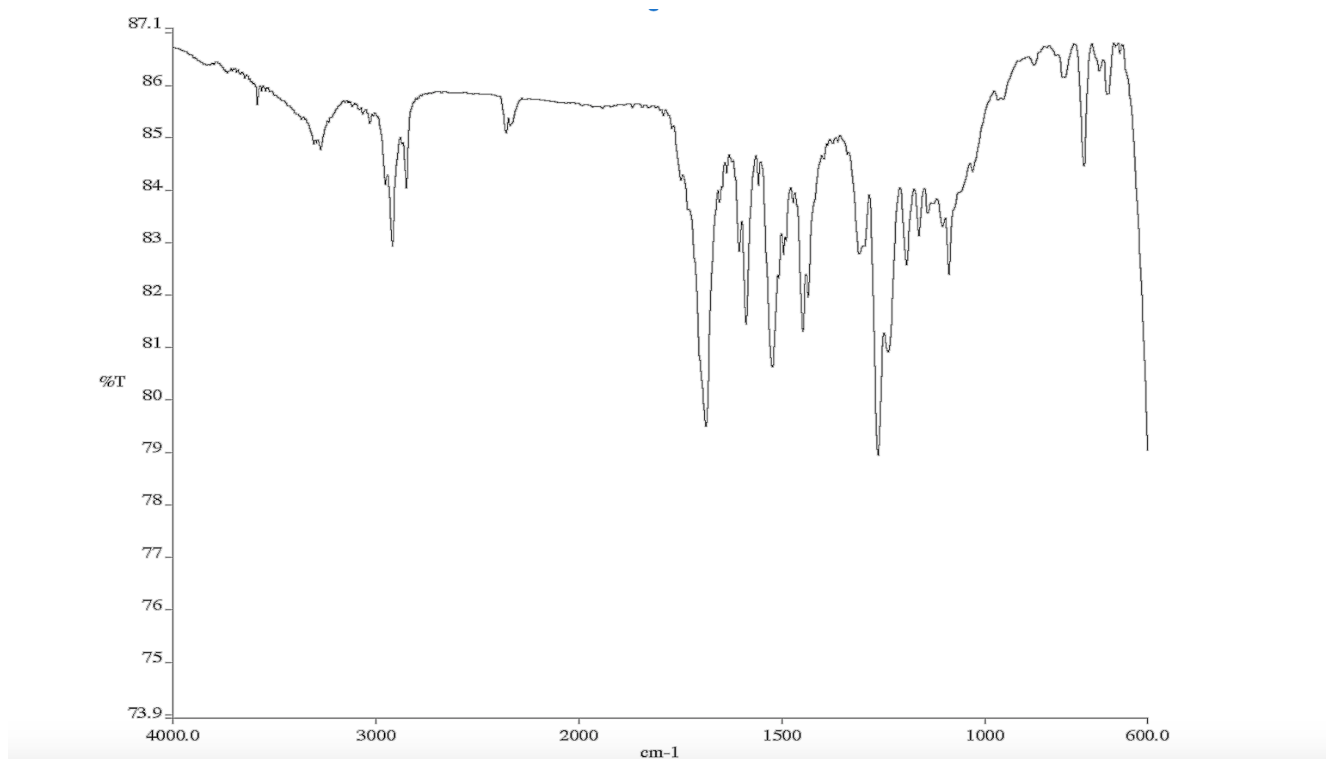


Figure A4.14 Infrared spectrum (Thin Film, NaCl) of compound **104e**

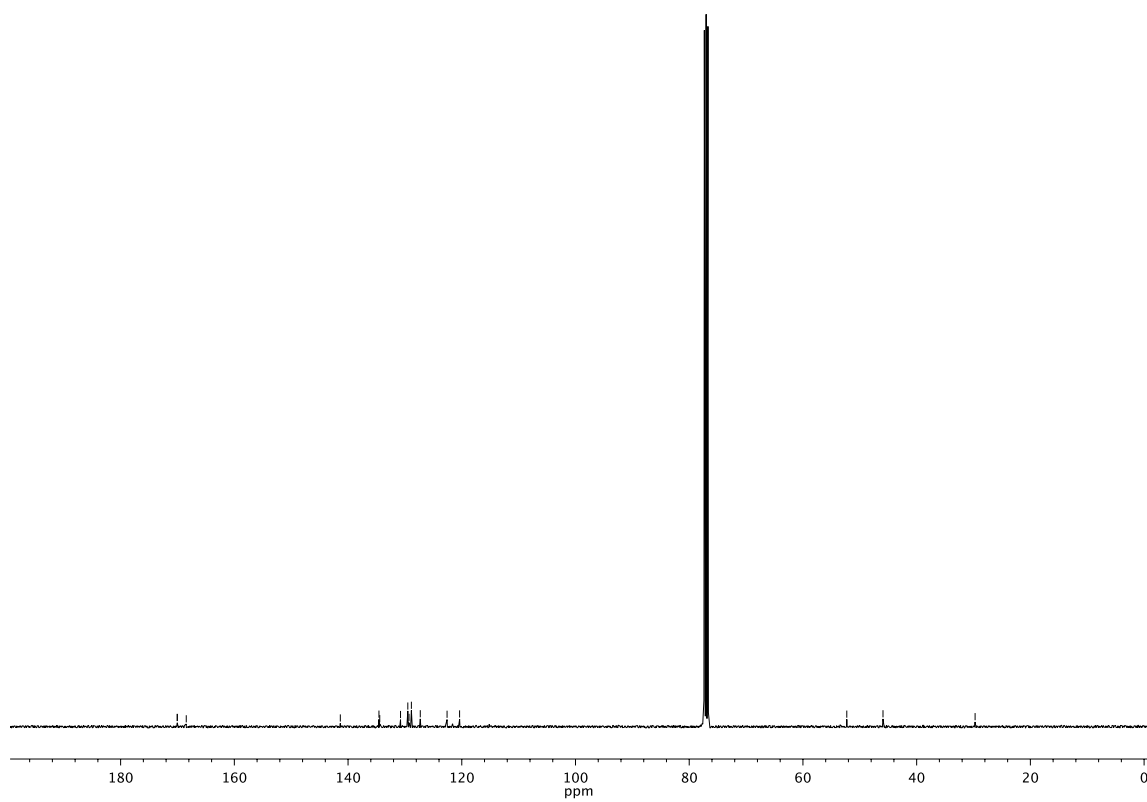


Figure A4.15 ¹³C NMR (101 MHz, CDCl₃) of compound **104e**

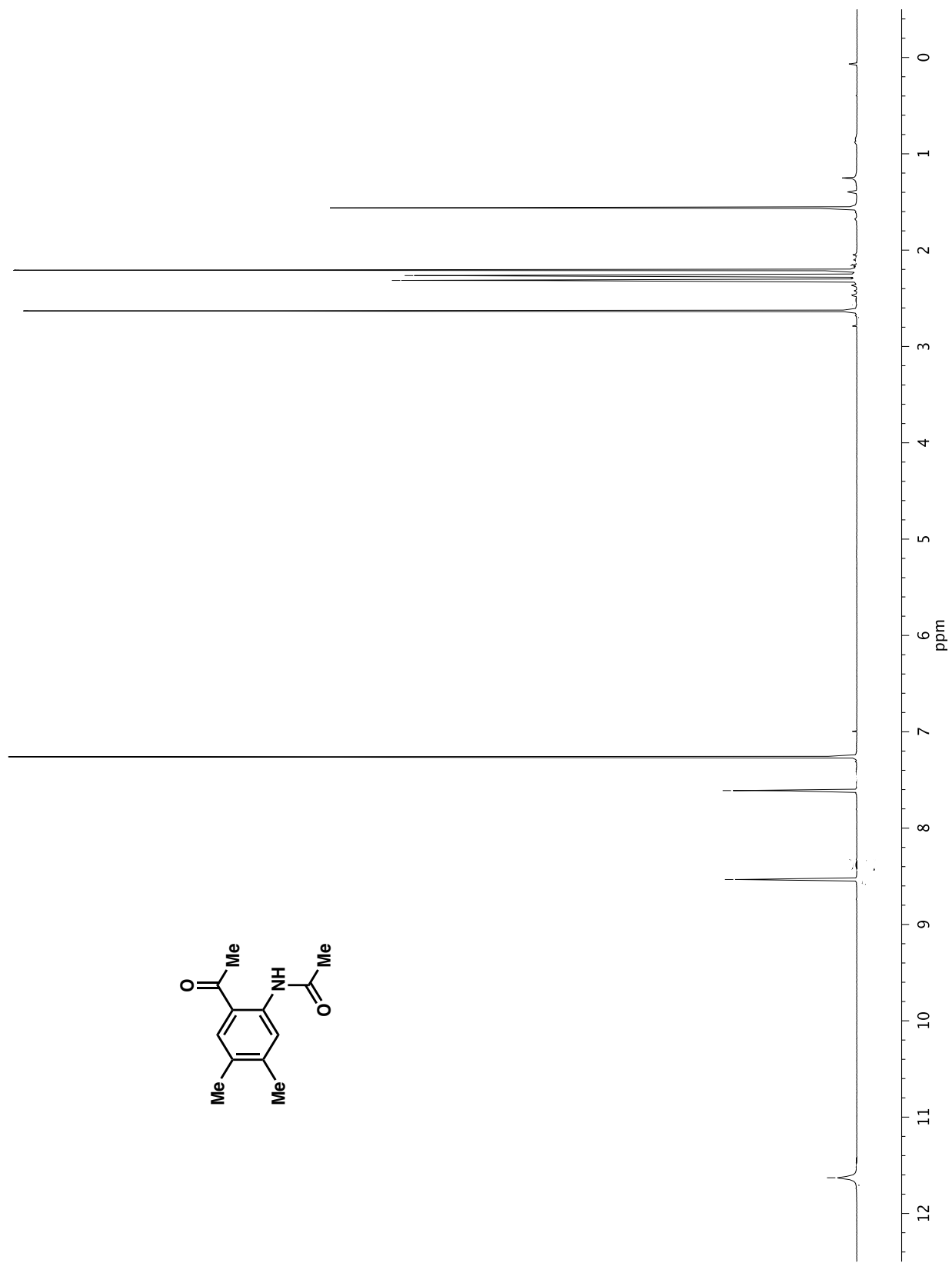


Figure A4.16 ^1H NMR (400 MHz, CDCl_3) of compound **106a**

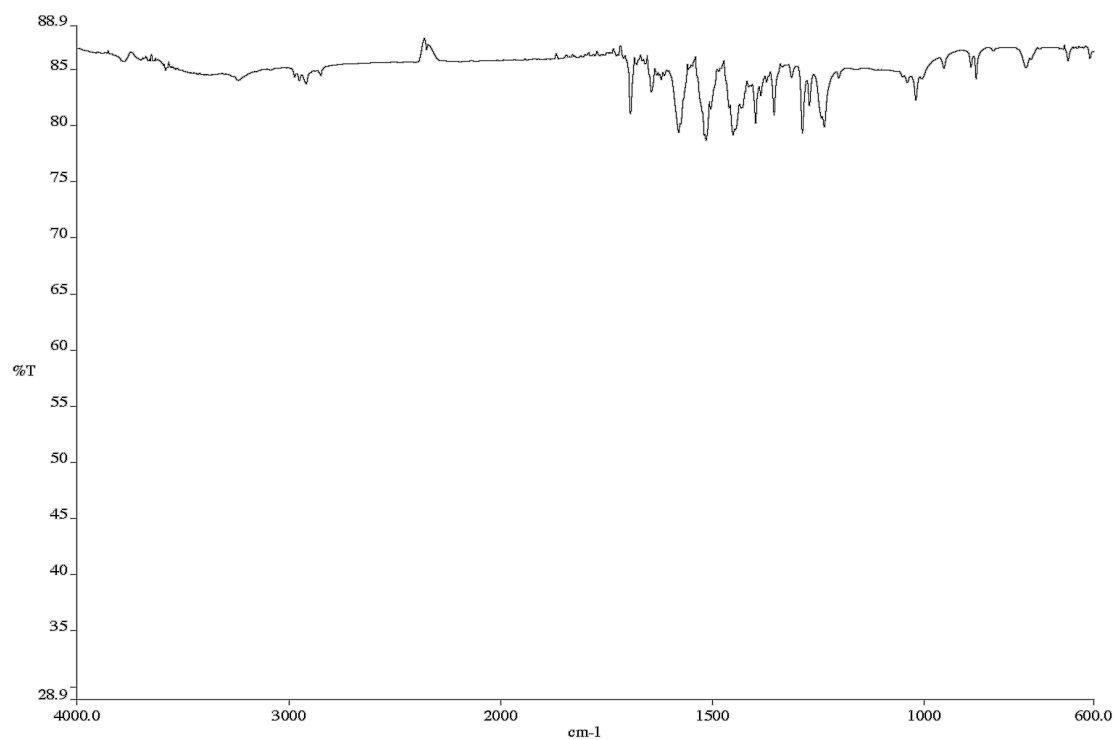


Figure A4.17 Infrared spectrum (Thin Film, NaCl) of compound **106a**

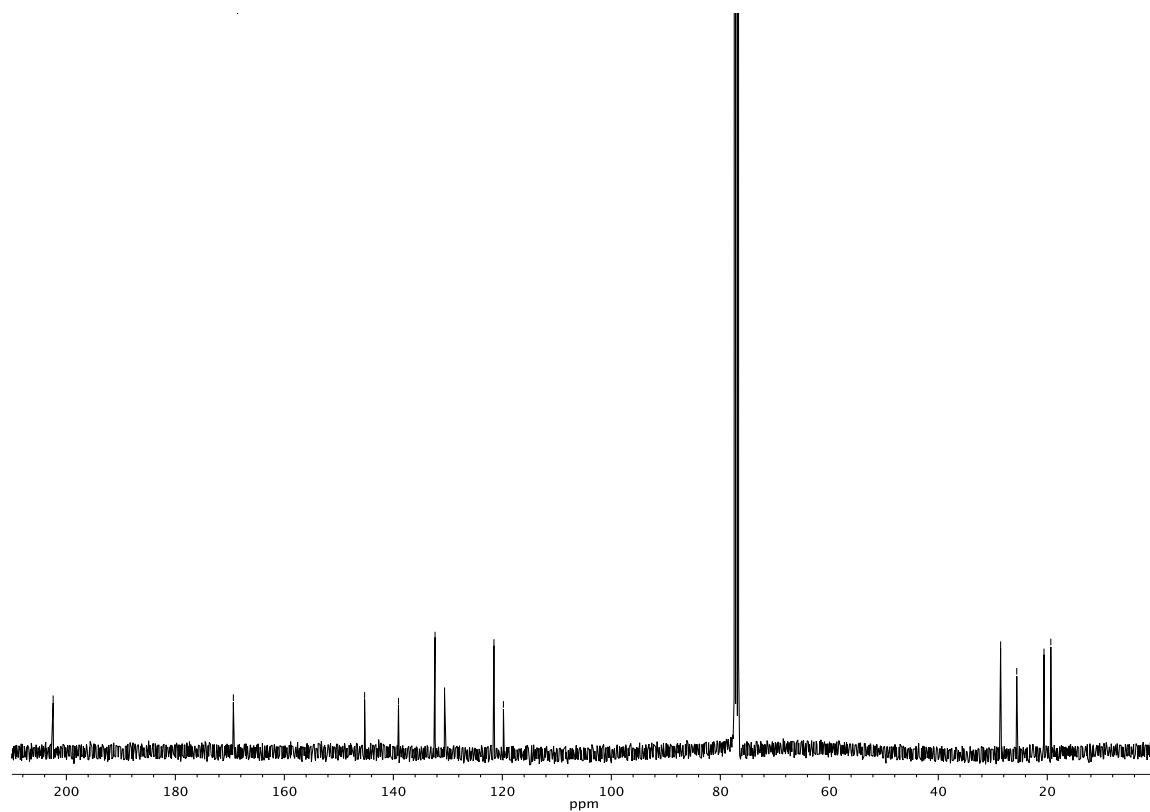


Figure A4.18 ¹³C NMR (101 MHz, CDCl₃) of compound **106a**

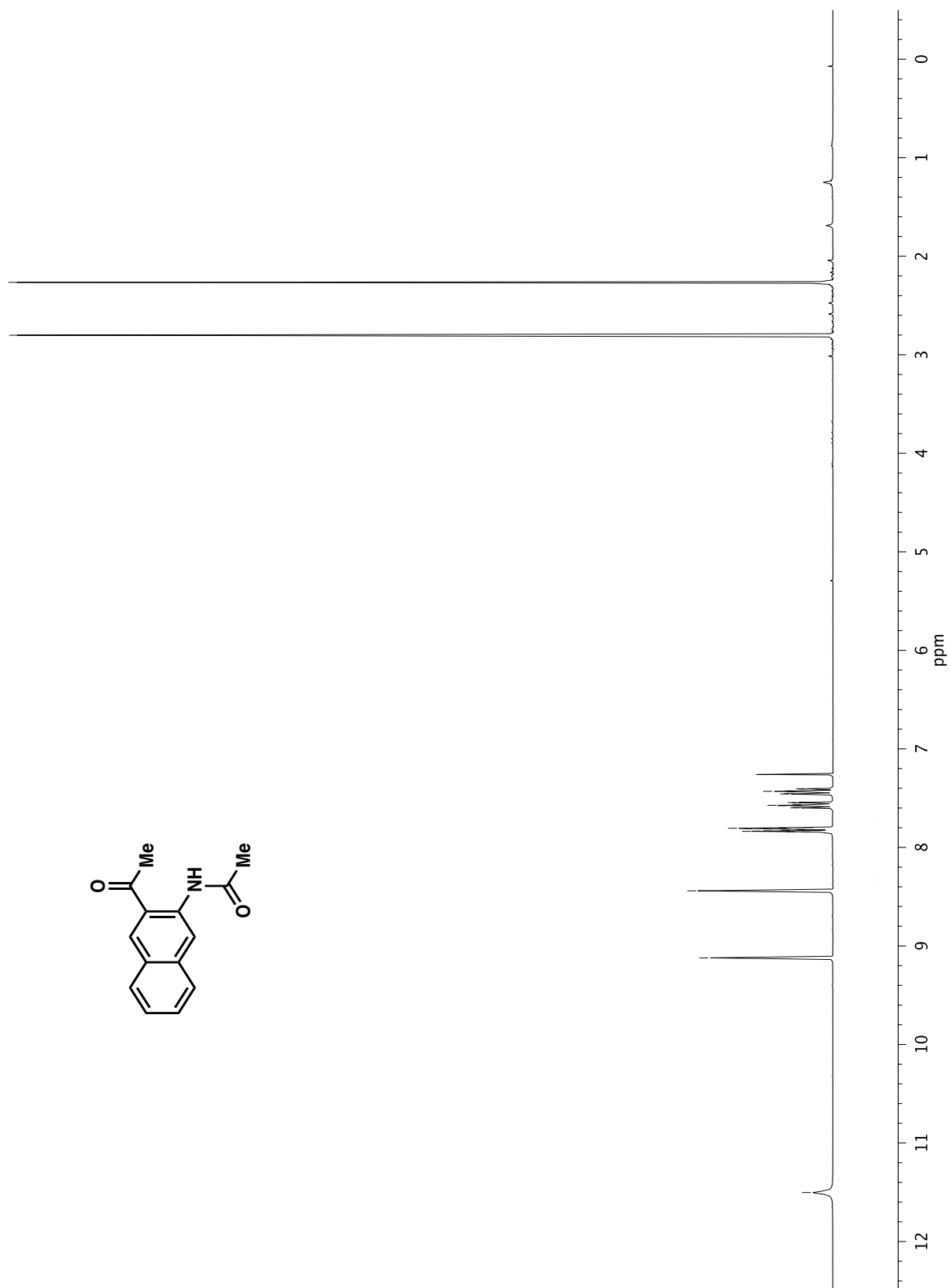


Figure A4.19 ^1H NMR (400 MHz, CDCl_3) of compound **106b**

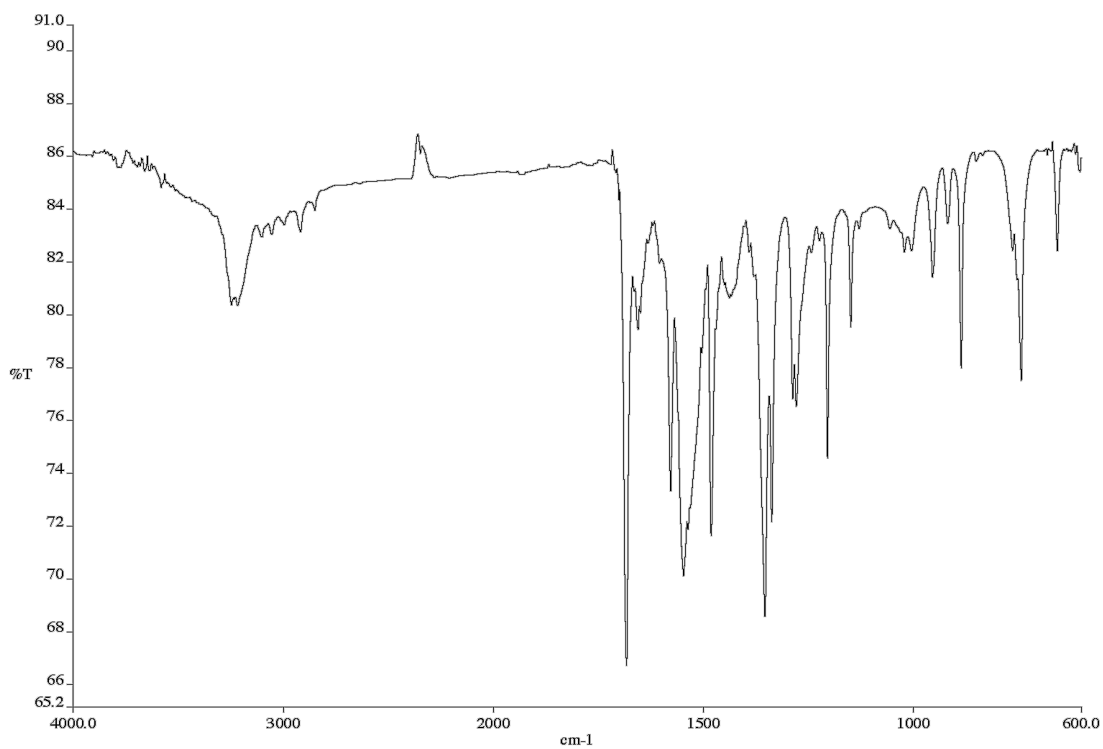


Figure A4.20 Infrared spectrum (Thin Film, NaCl) of compound **106b**

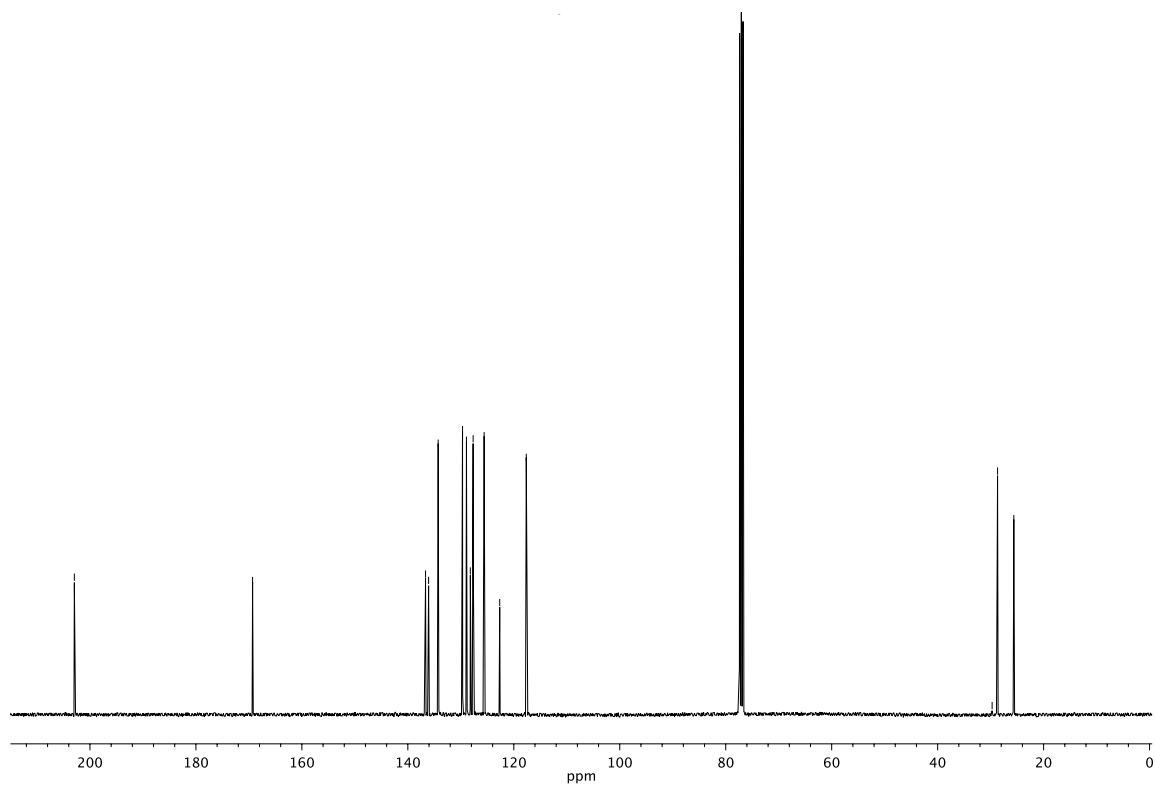


Figure A4.21 ¹³C NMR (101 MHz, CDCl₃) of compound **106b**

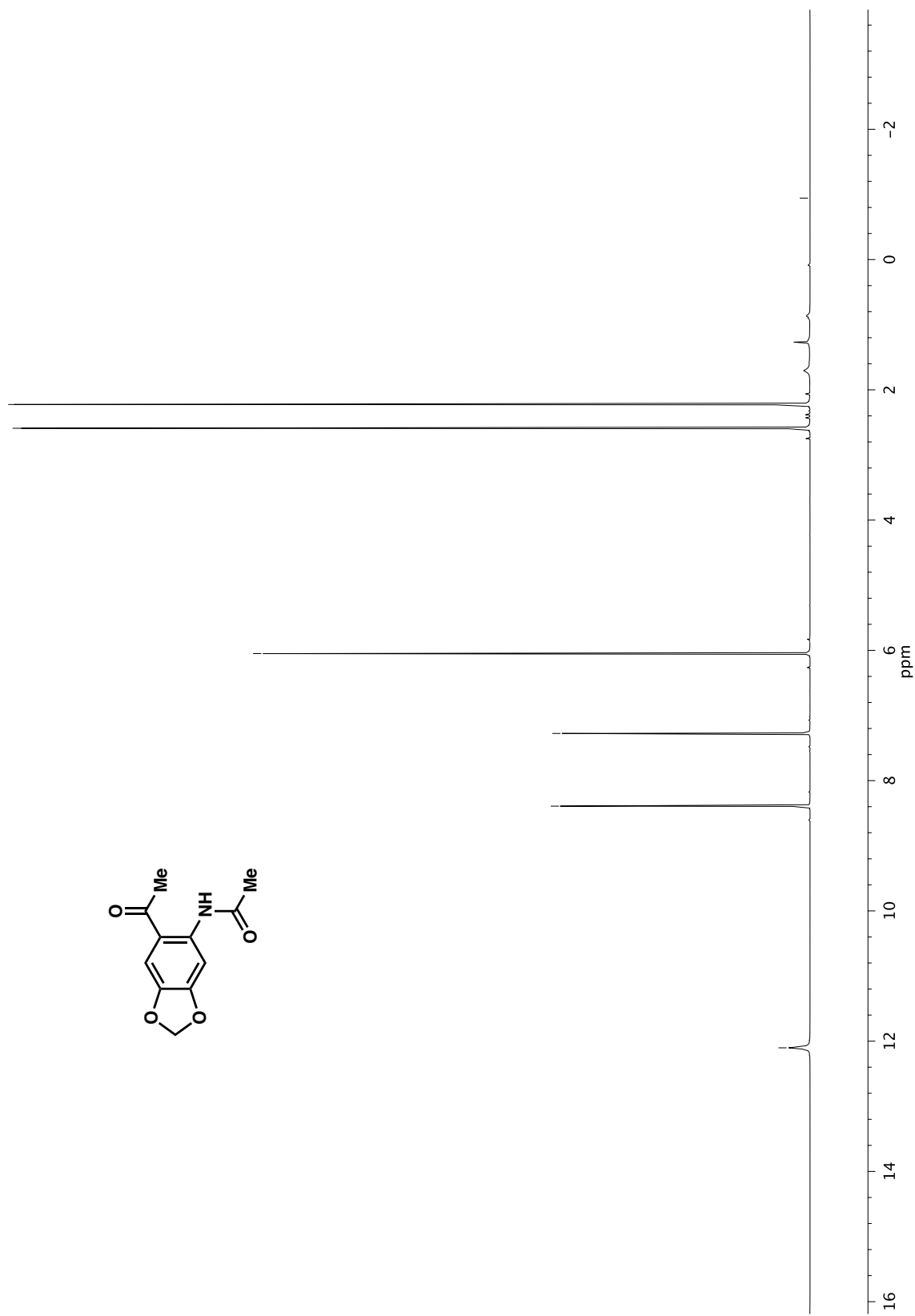


Figure A4.22 ^1H NMR (400 MHz, CDCl_3) of compound **106c**

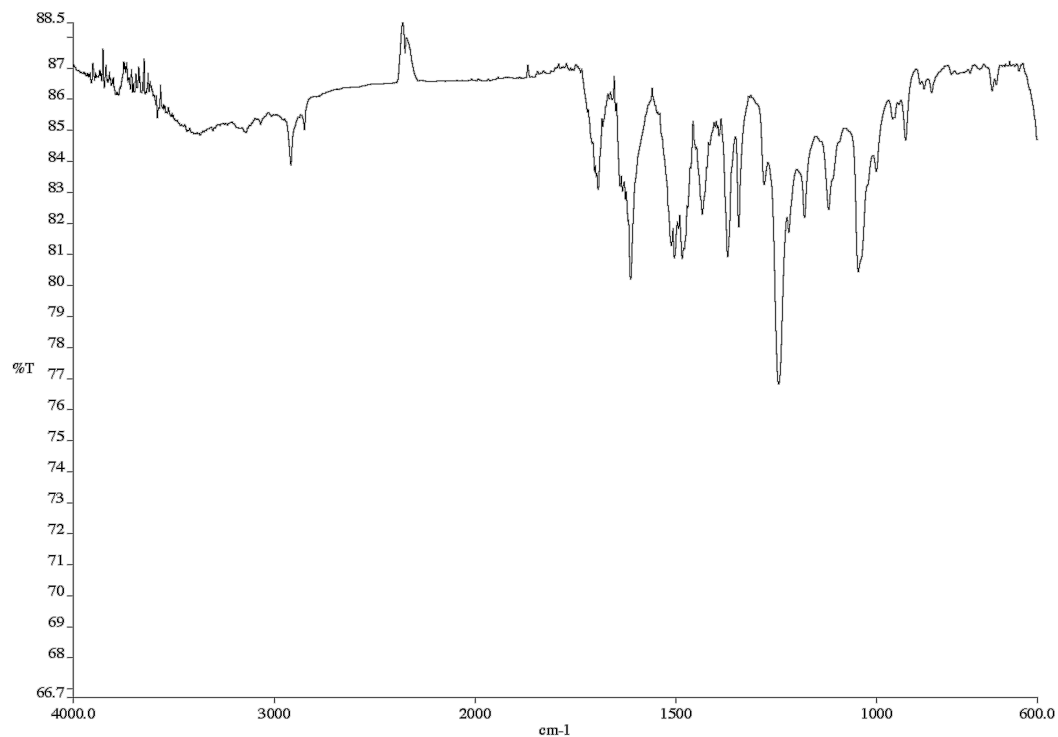


Figure A4.23 Infrared spectrum (Thin Film, NaCl) of compound **106c**

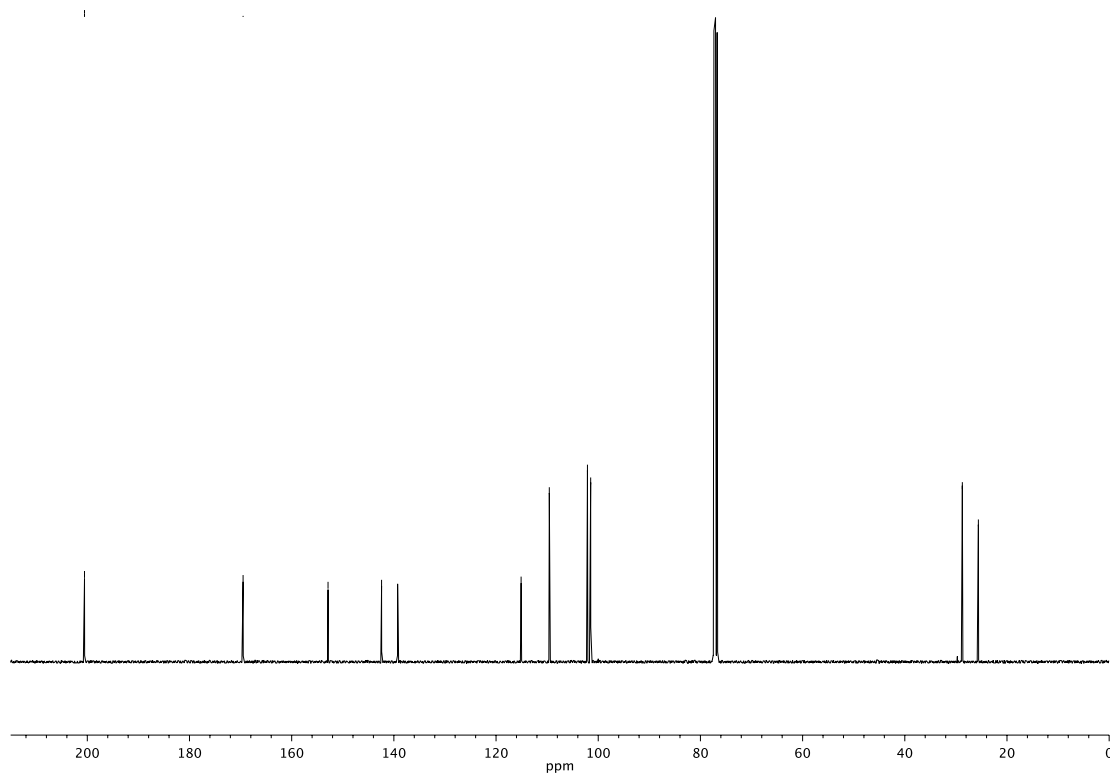


Figure A4.24 ^{13}C NMR (101 MHz, CDCl_3) of compound **106c**

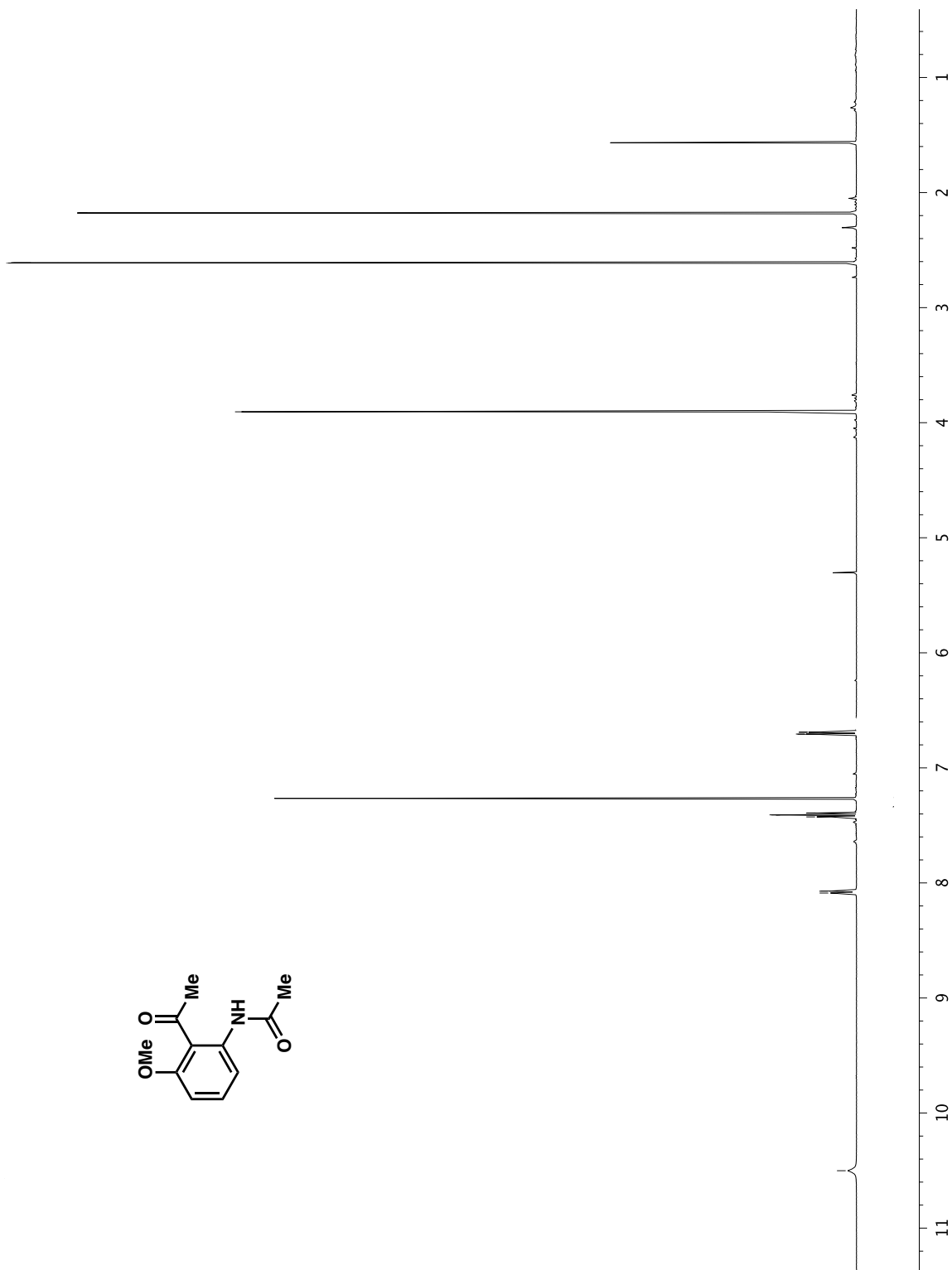


Figure A4.25 ^1H NMR (500 MHz, CDCl_3) of compound **106d**

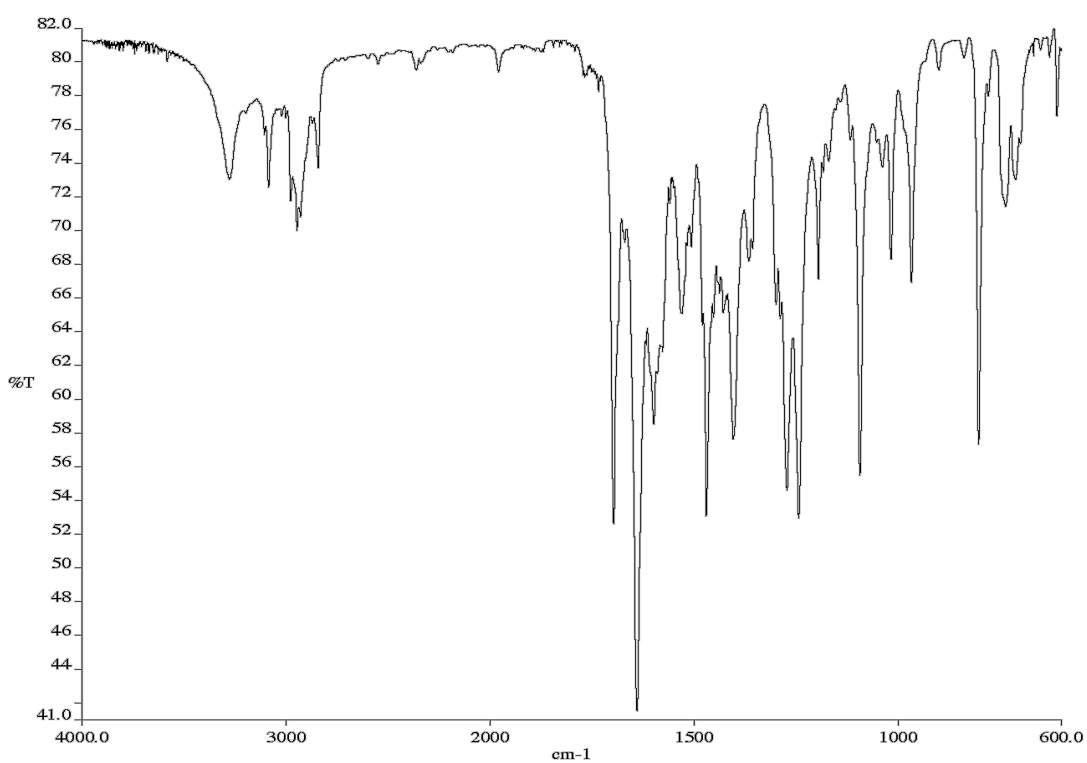


Figure A4.26 Infrared spectrum (Thin Film, NaCl) of compound **106d**

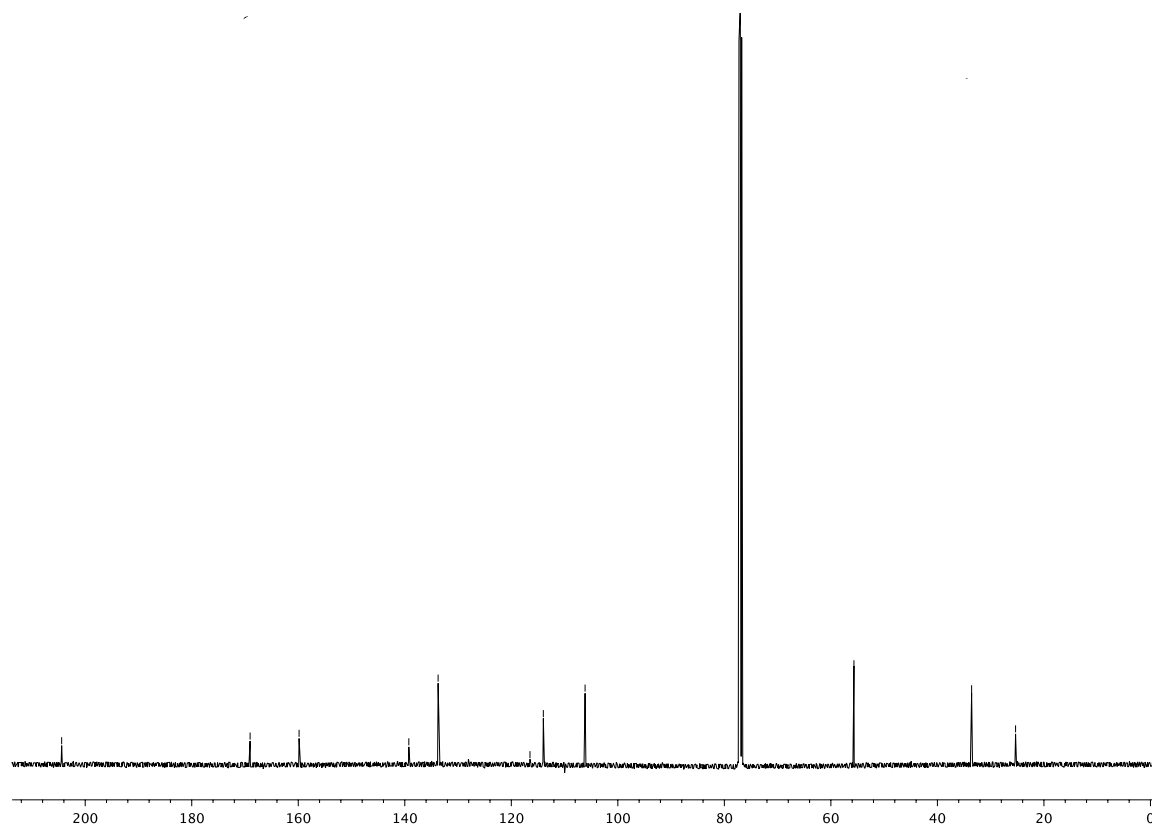


Figure A4.27 ¹³C NMR (126 MHz, CDCl₃) of compound **106d**

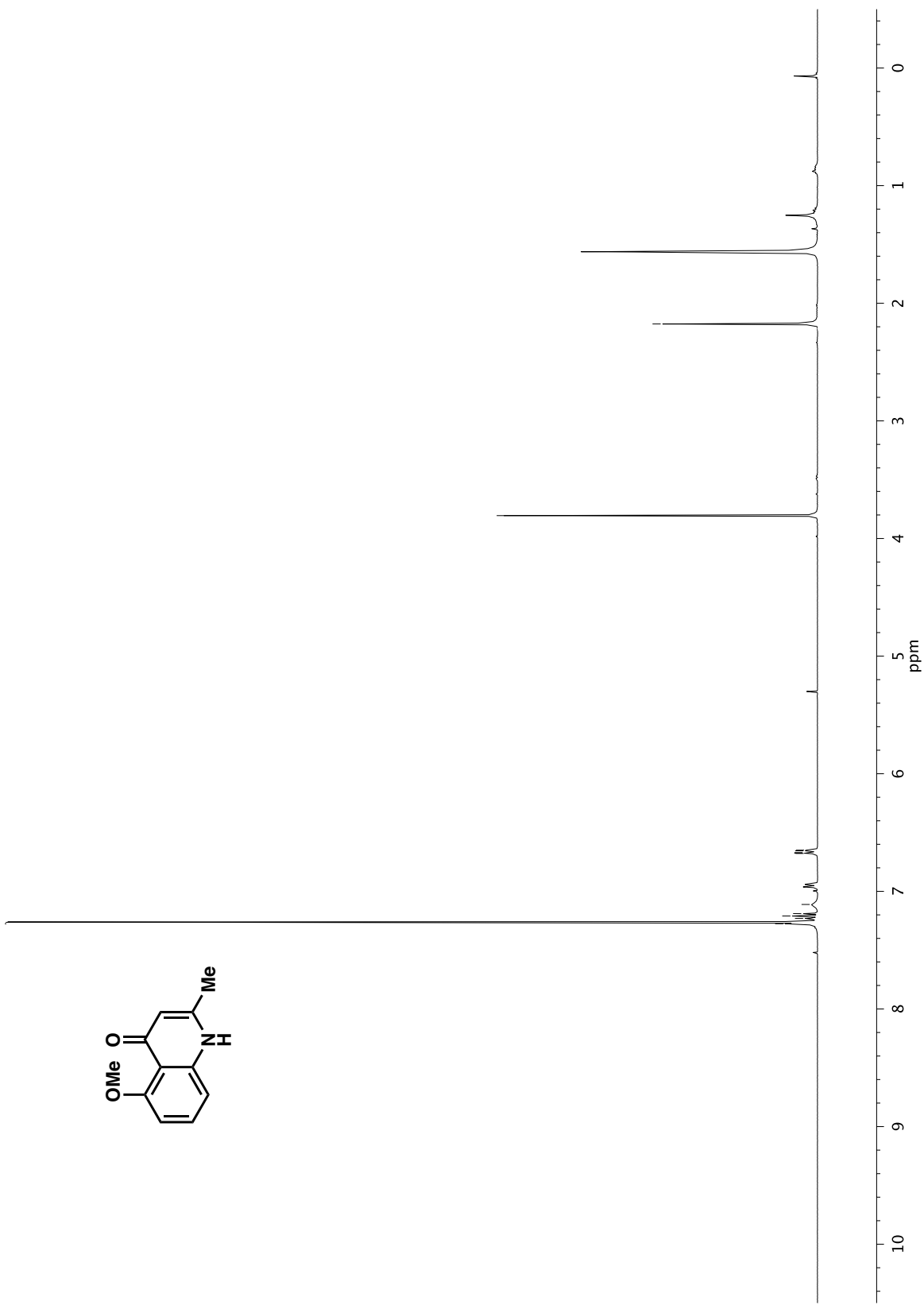


Figure A4.28 ^1H NMR (400 MHz, CDCl_3) of compound **107c**

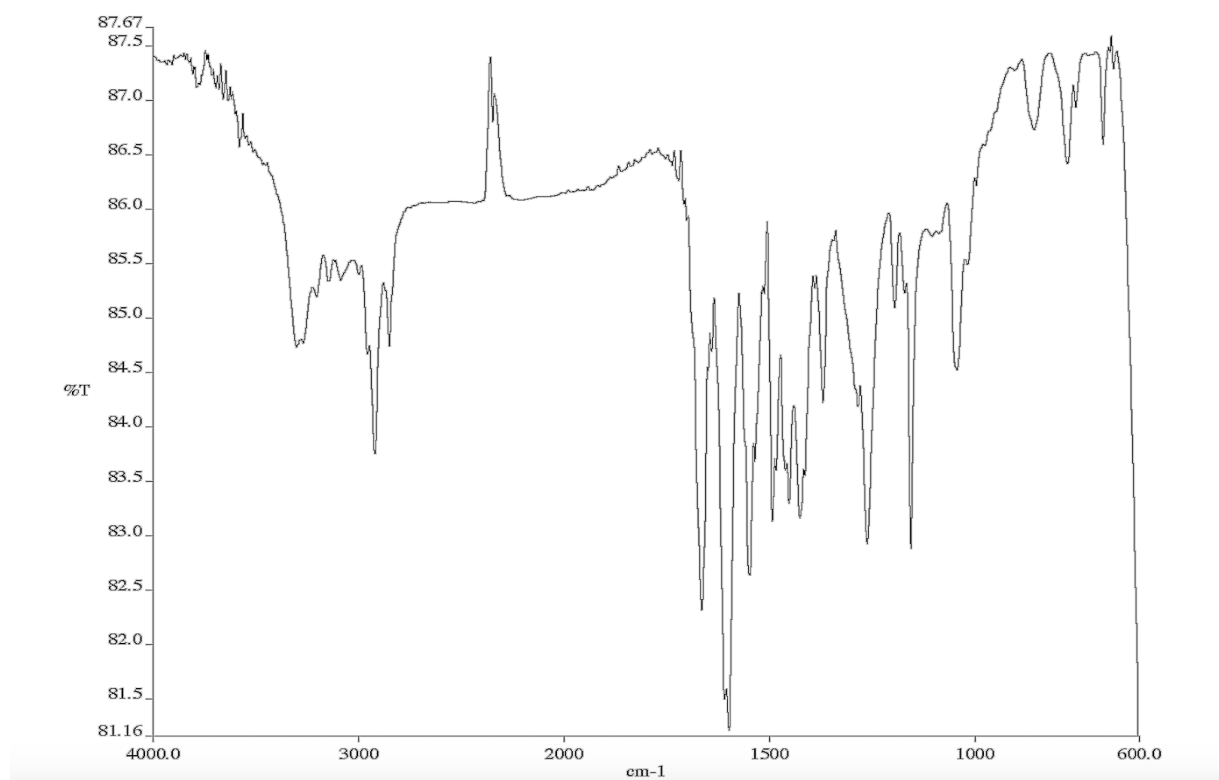


Figure A4.29 Infrared spectrum (Thin Film, NaCl) of compound **107c**

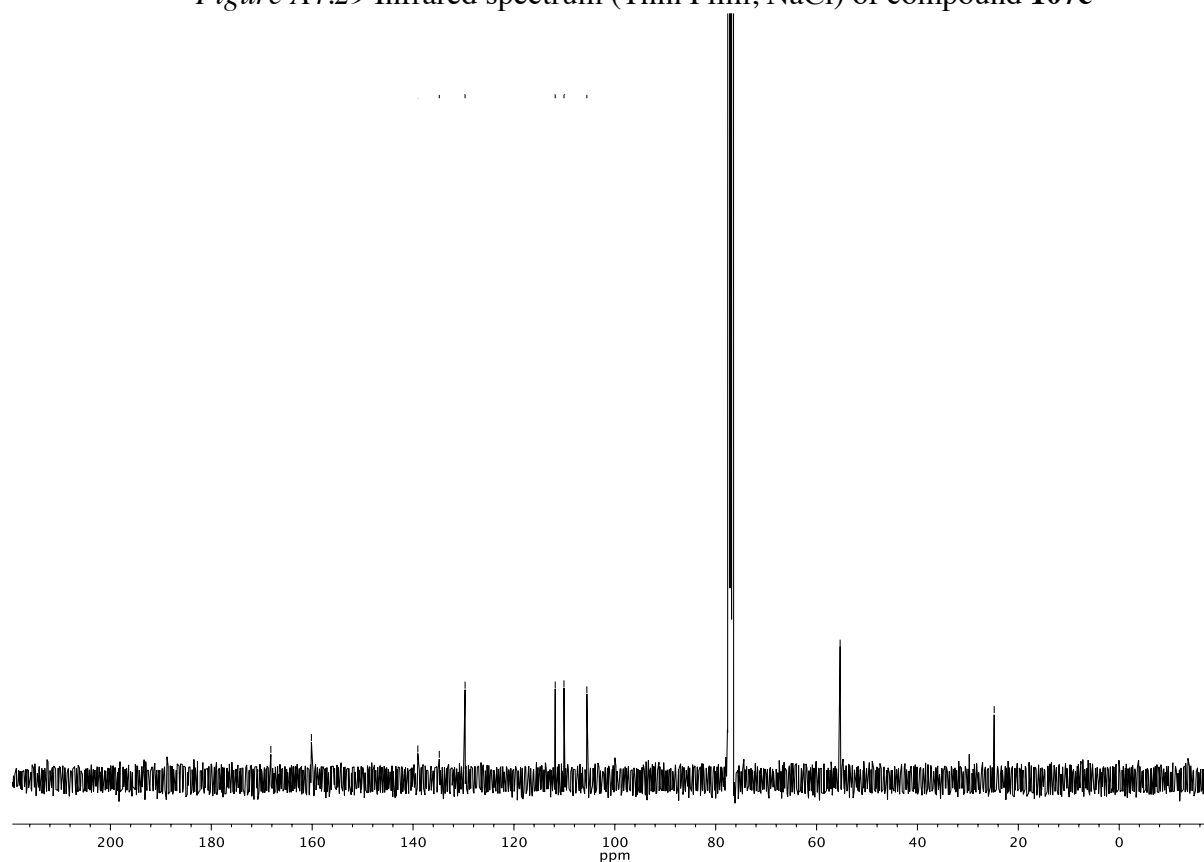


Figure A4.30 ¹³C NMR (101 MHz, CDCl₃) of compound **107c**

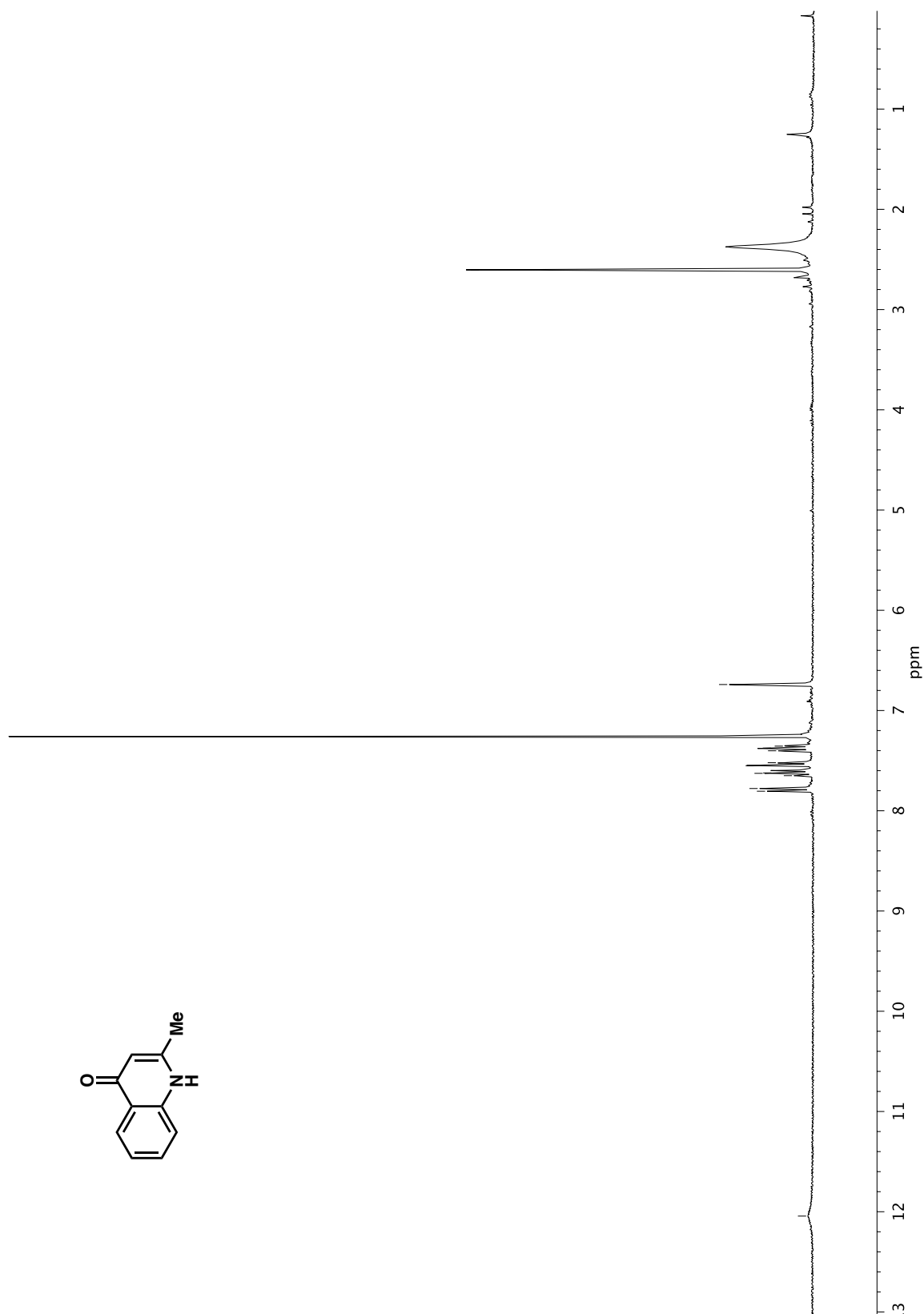


Figure A4.31 ^1H NMR (400 MHz, CDCl_3) of compound **107a**

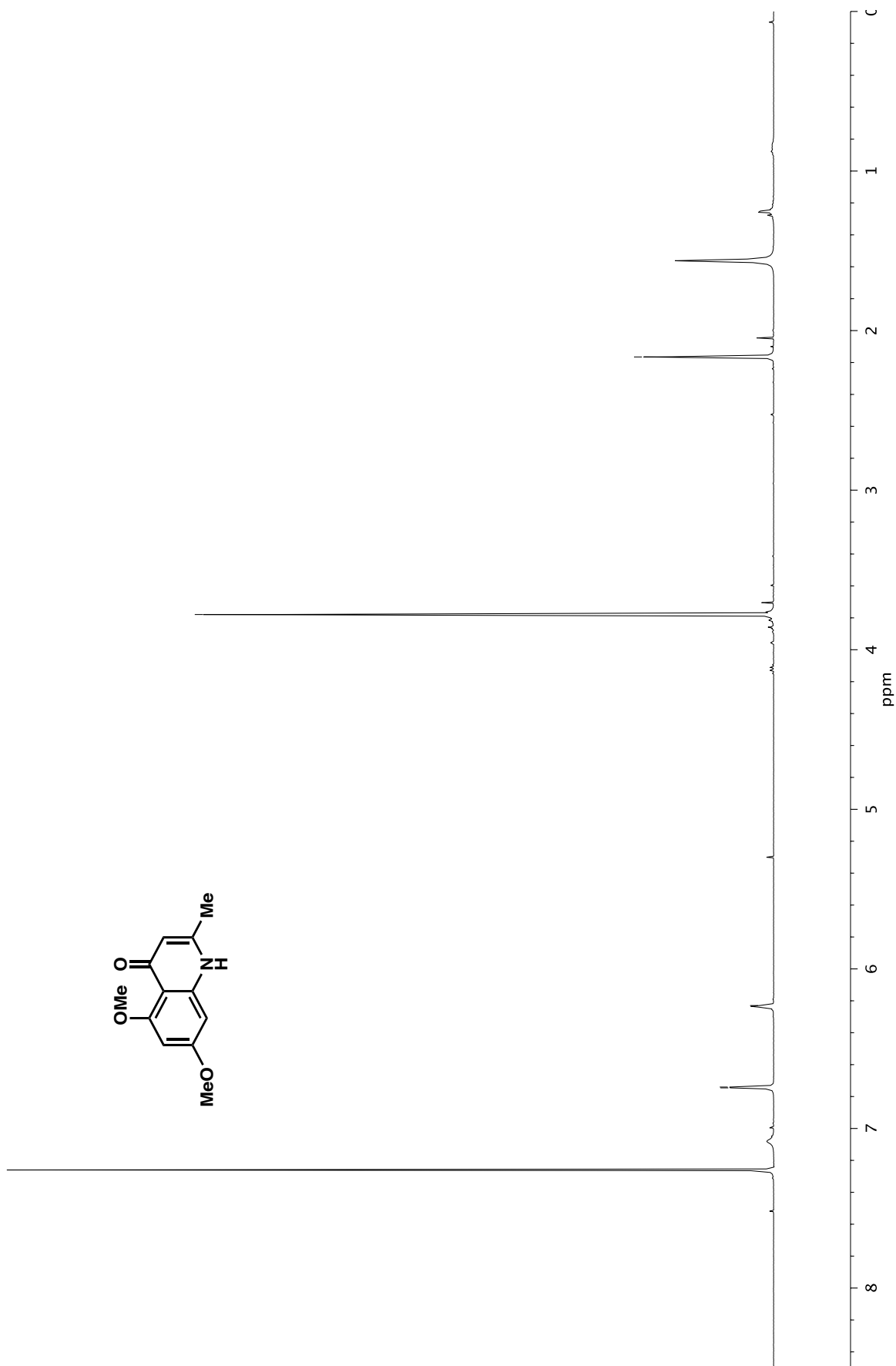


Figure A4.32 ^1H NMR (400 MHz, CDCl_3) of compound **107b**