

**Spectral Data for:**

**Convergent and Diastereoselective Synthesis of the Polycyclic Pyran Core of Saudin**

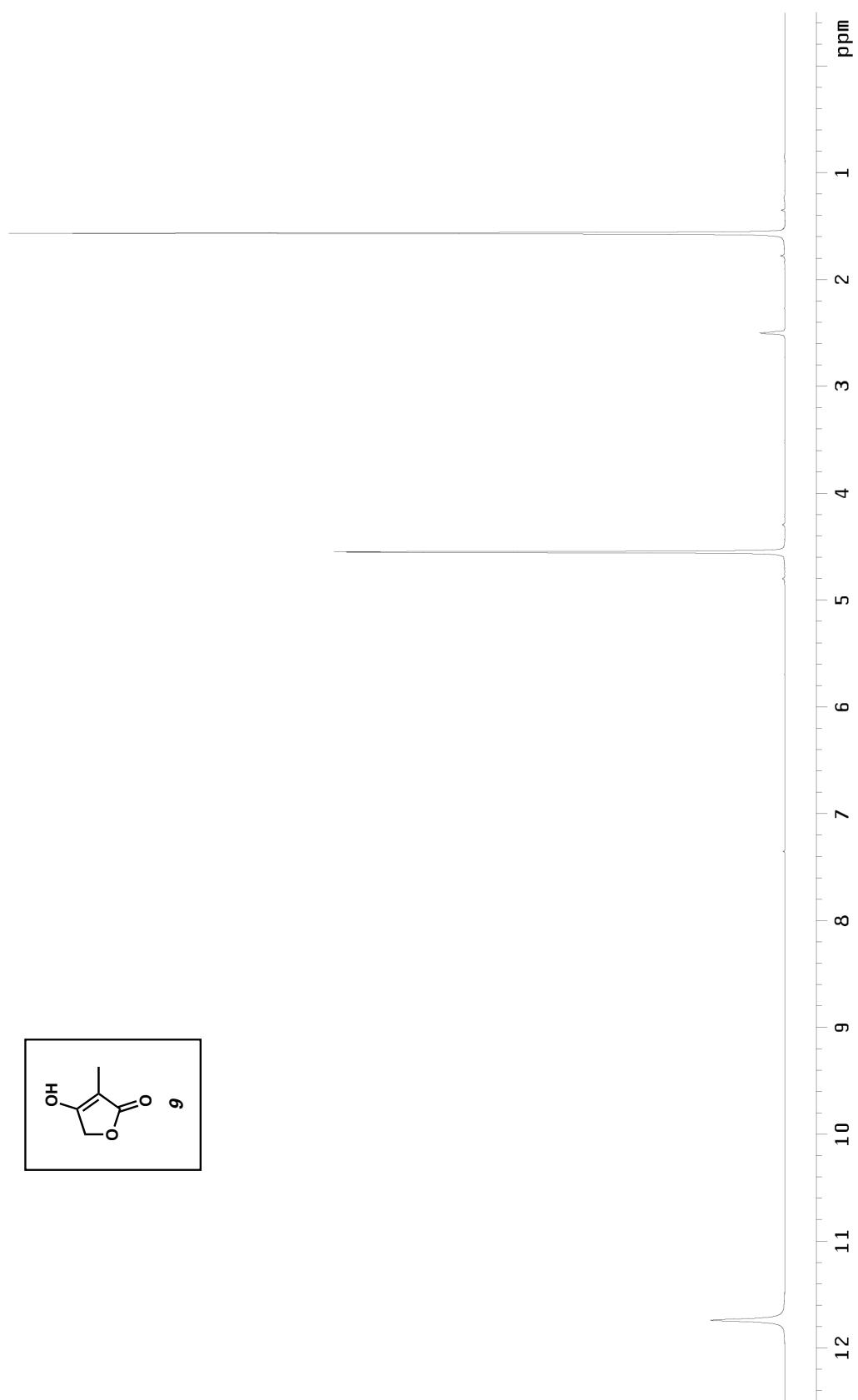


Figure A1  $^1\text{H}$  NMR (300 MHz,  $\text{DMSO}-d_6$ ) of compound 9.

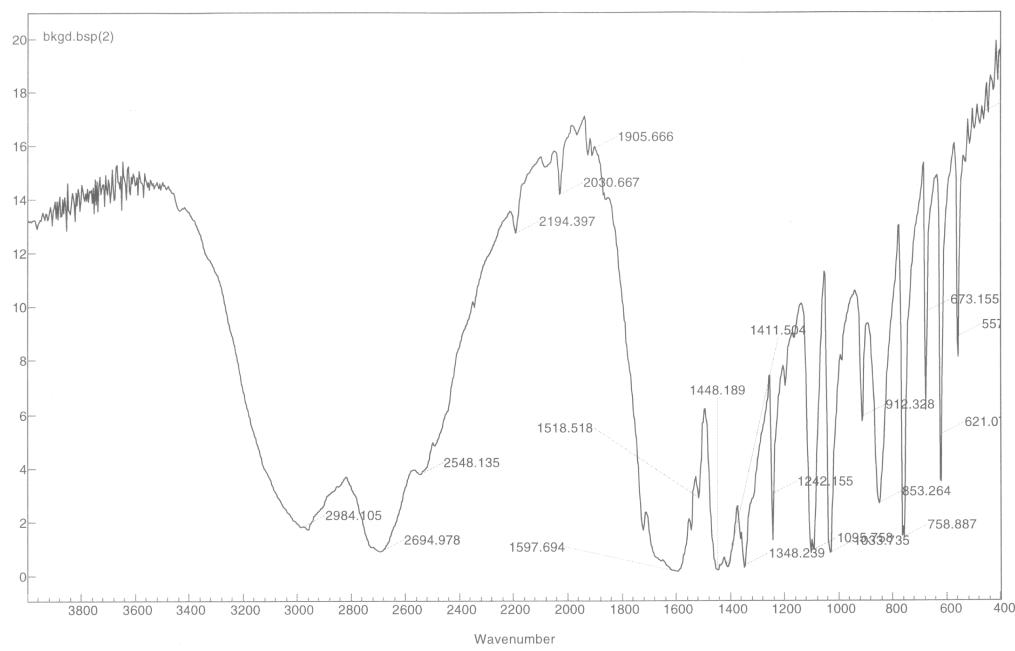


Figure A2 Infrared spectrum (KBr pellet) of compound 9.

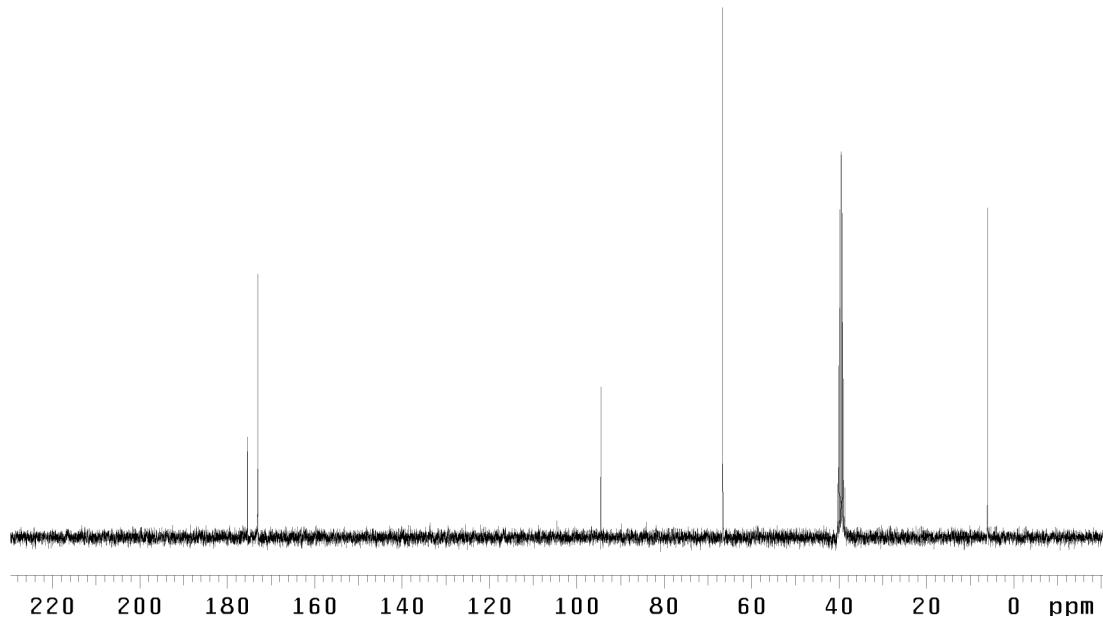


Figure A3  $^{13}\text{C}$  NMR (75 MHz,  $\text{DMSO}-d_6$ ) of compound 9.

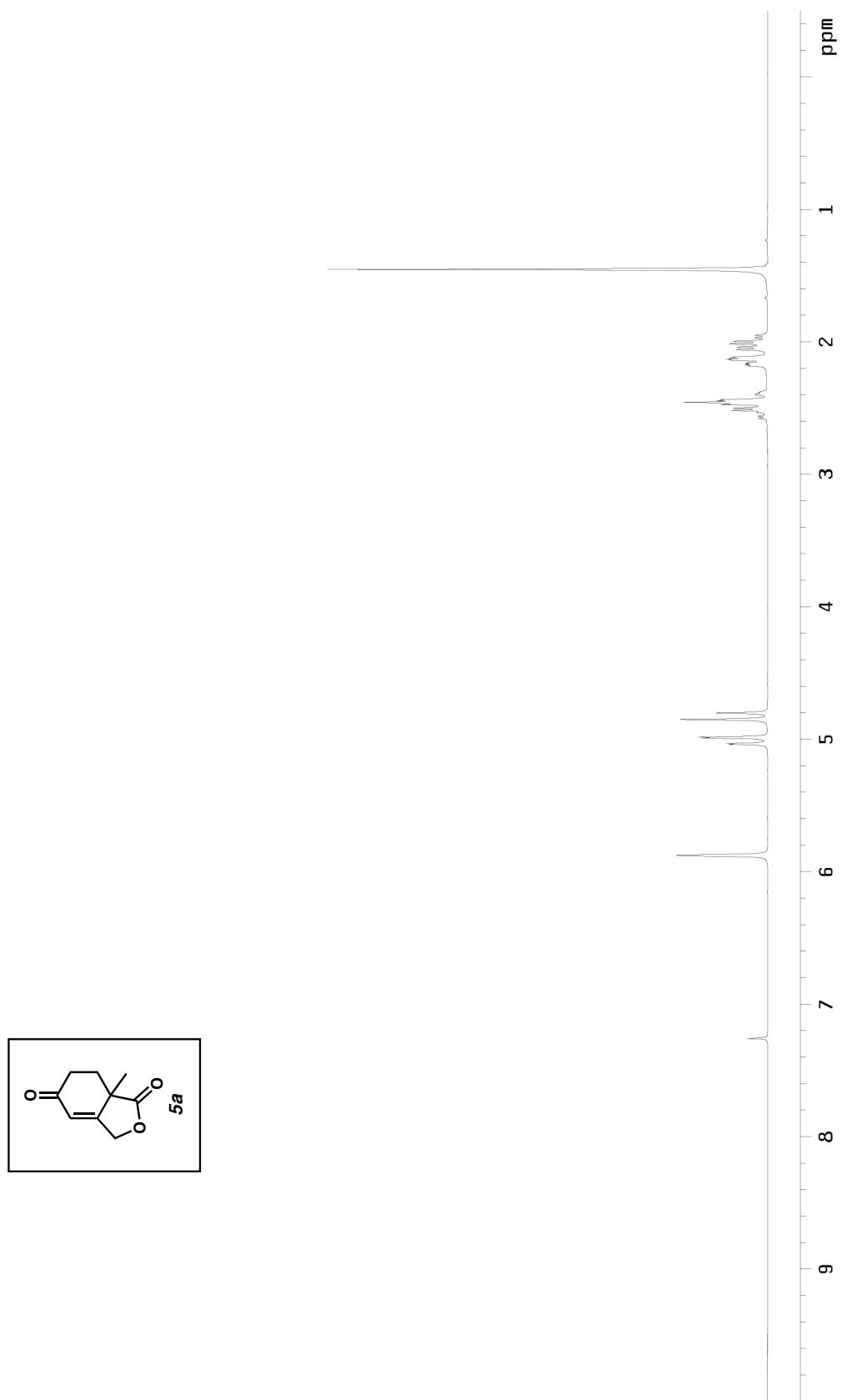


Figure A4  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound **5a**.

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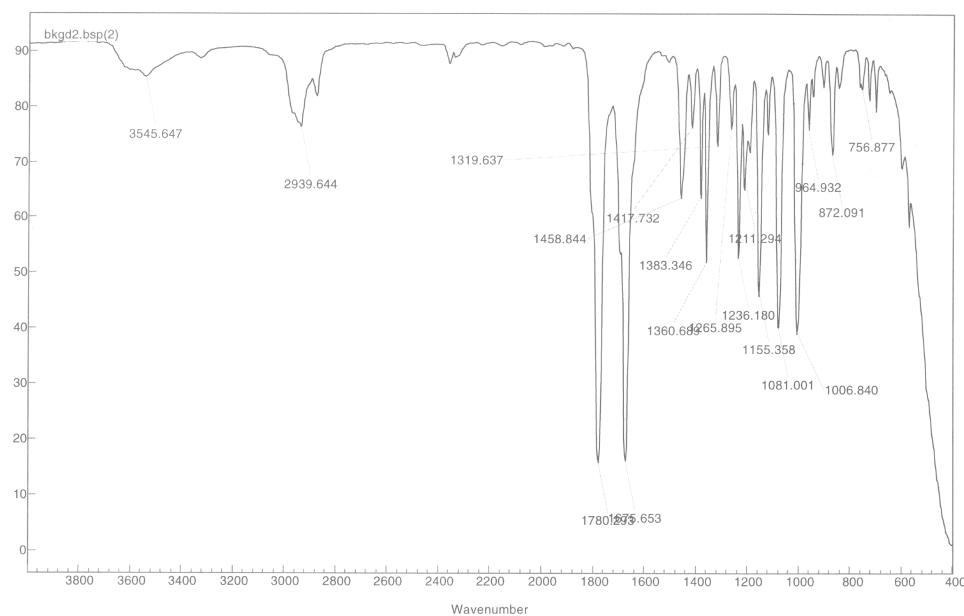


Figure A5 Infrared spectrum (thin film/NaCl) of compound **5a**.

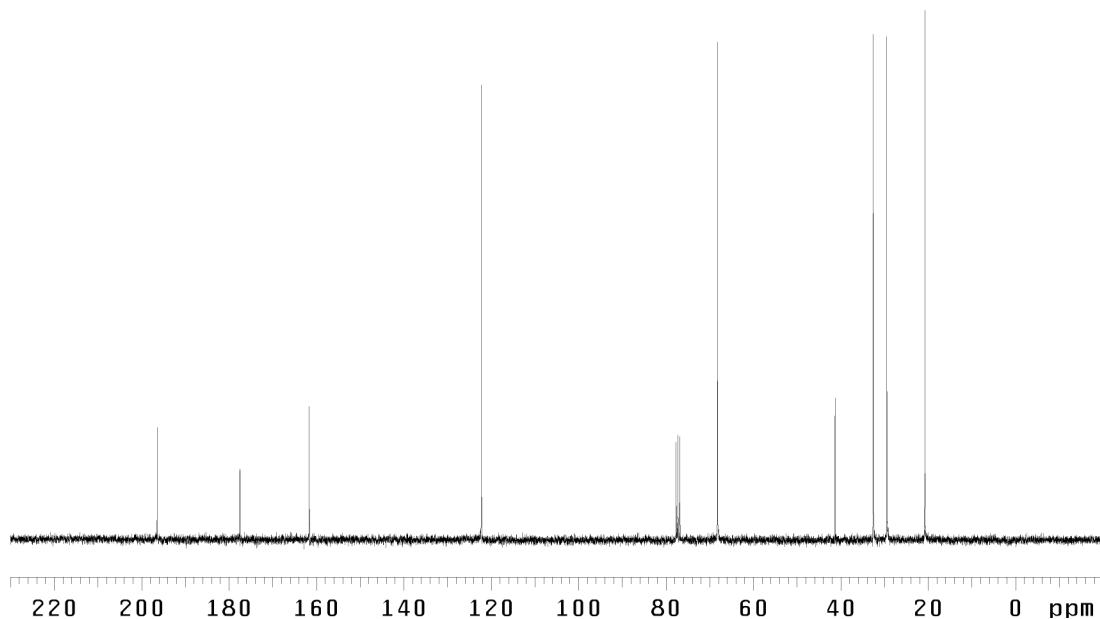


Figure A6 <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **5a**.

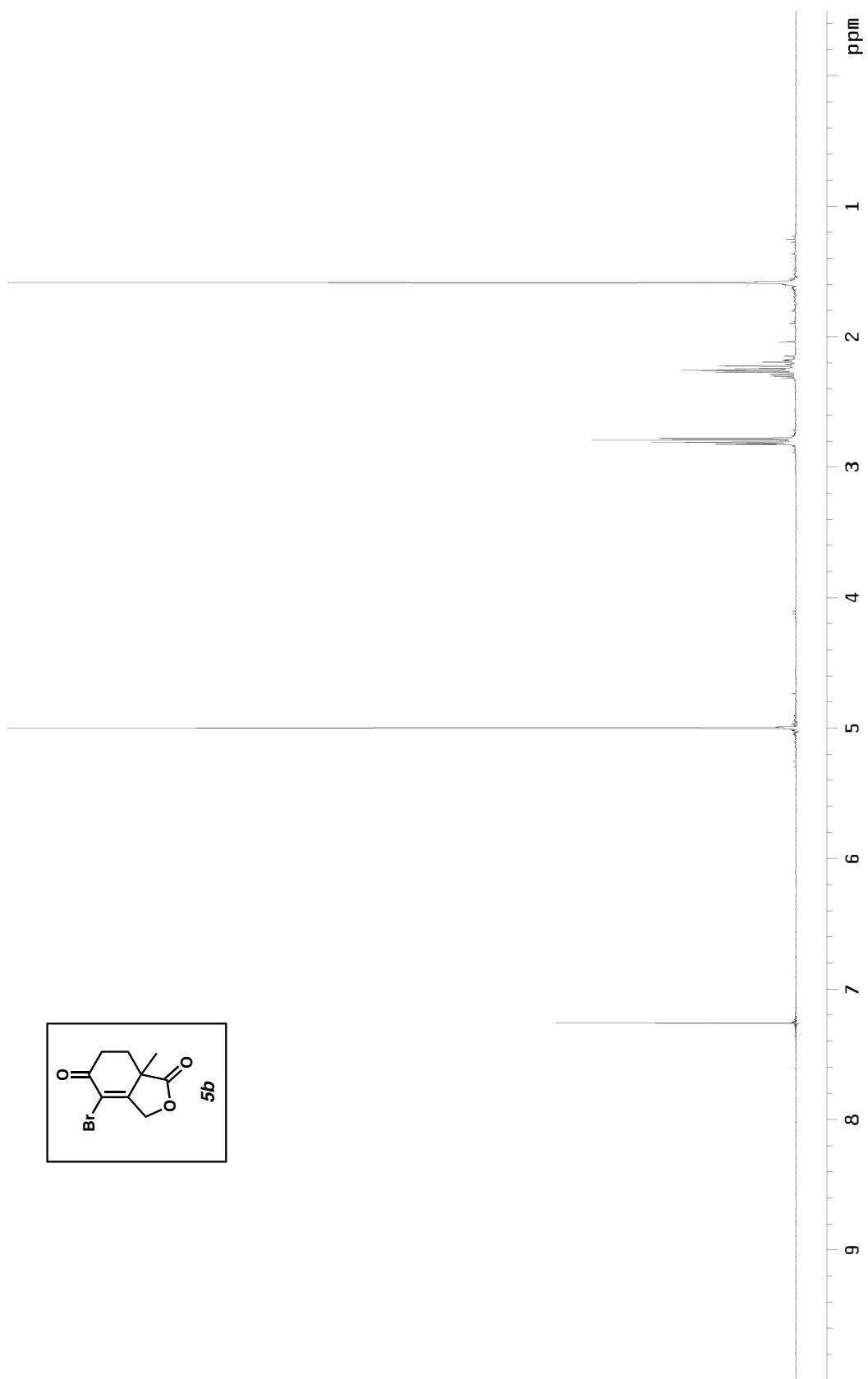


Figure A7  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound **5b**.

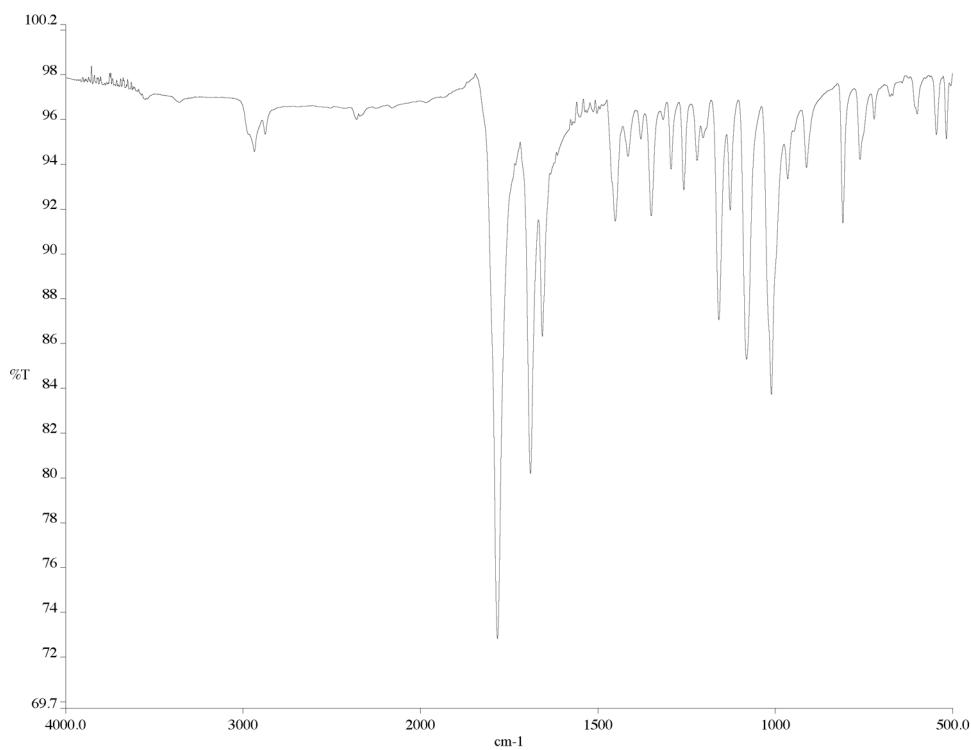


Figure A8 Infrared spectrum (thin film/NaCl) of compound **5b**.

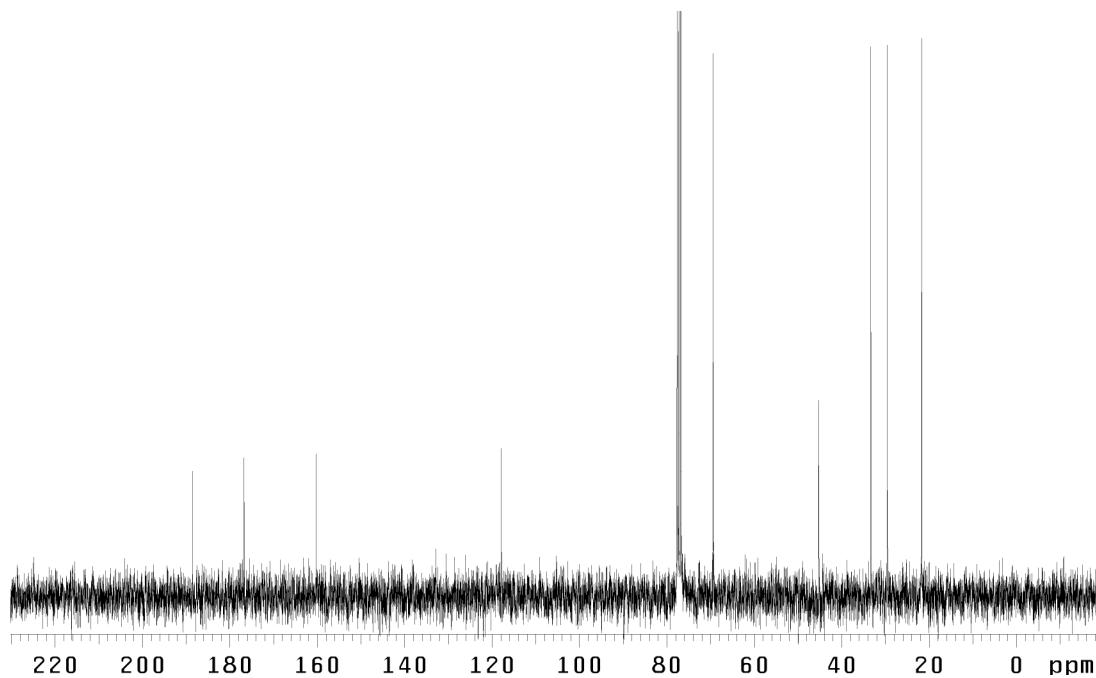


Figure A9  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **5b**.

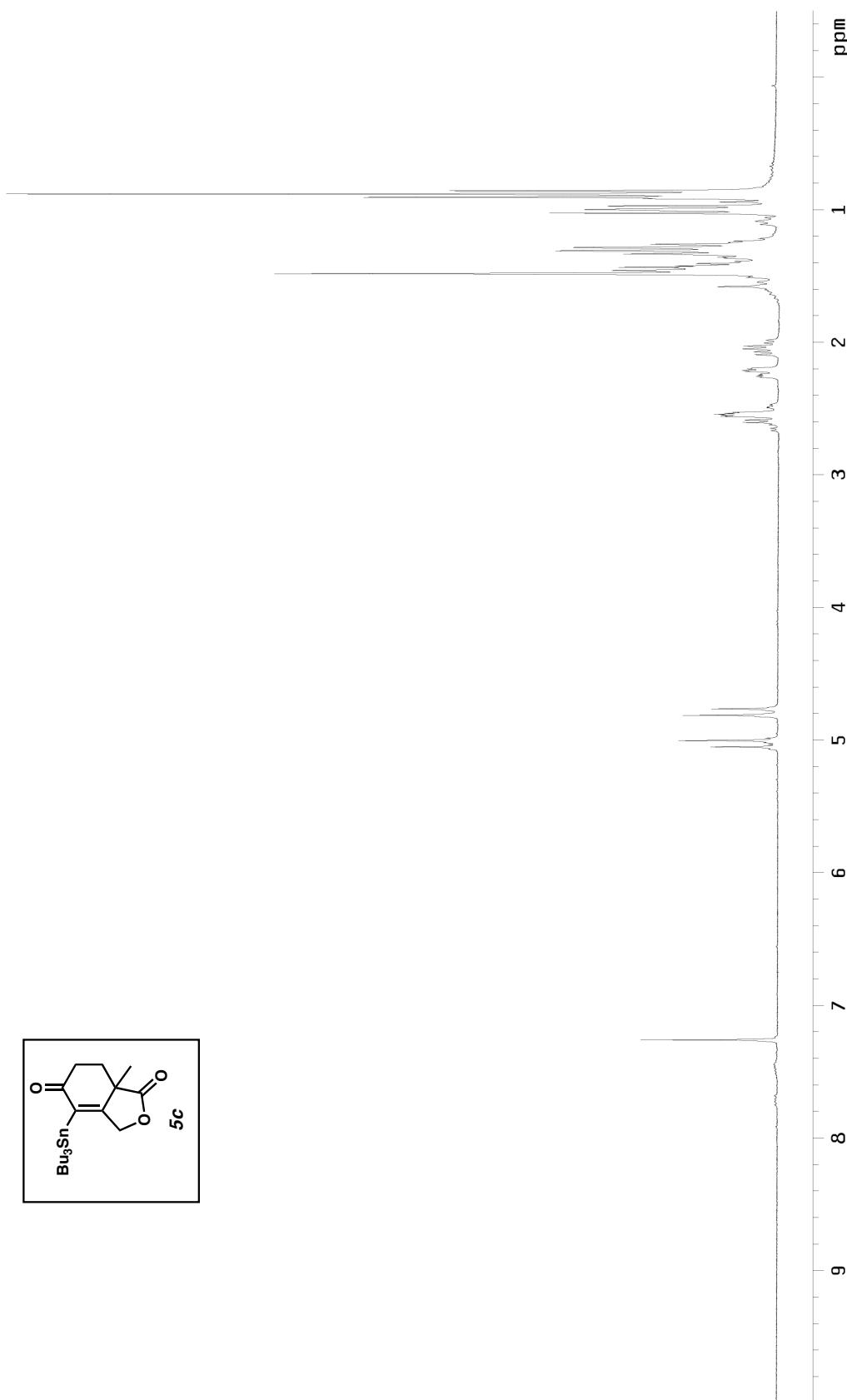


Figure A10  $^1\text{H}$  NMR (300 MHz, CDCl<sub>3</sub>) of compound **5c**.

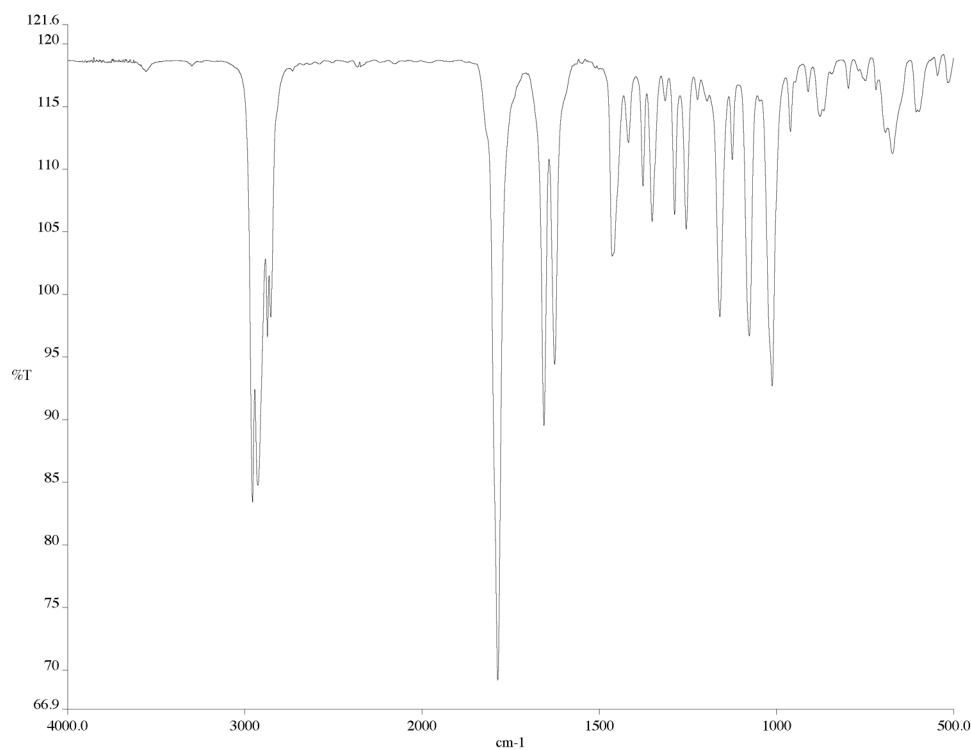


Figure A11 Infrared spectrum (thin film/NaCl) of compound **5c**.

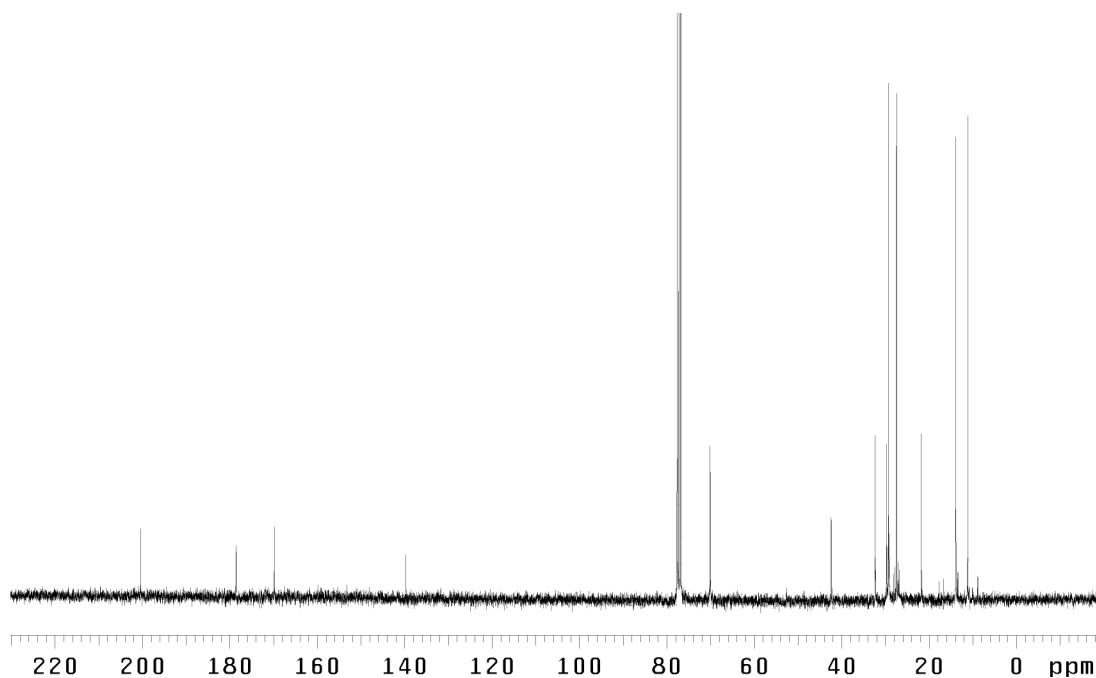


Figure A12  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **5c**.

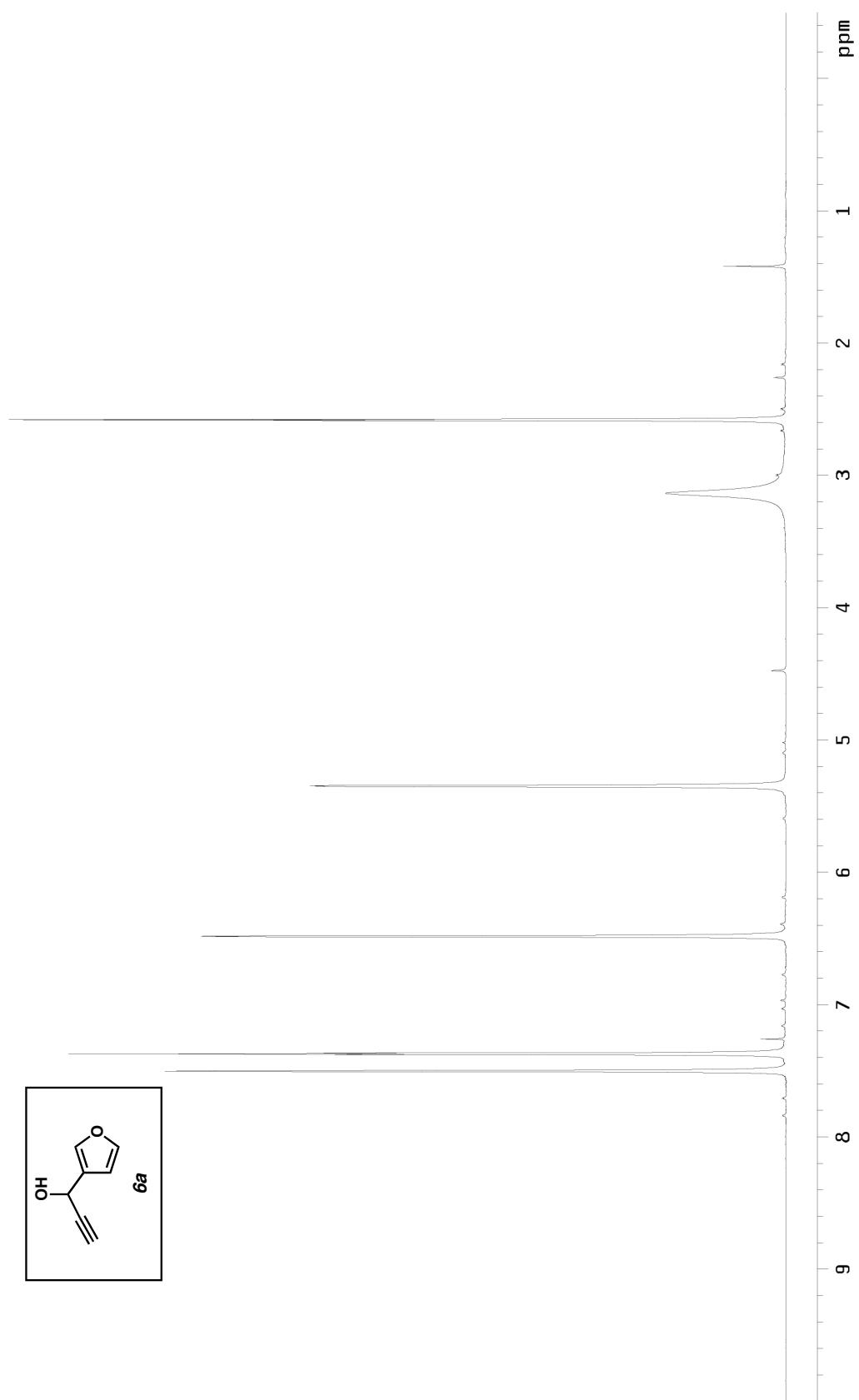


Figure A13  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound **6a**.

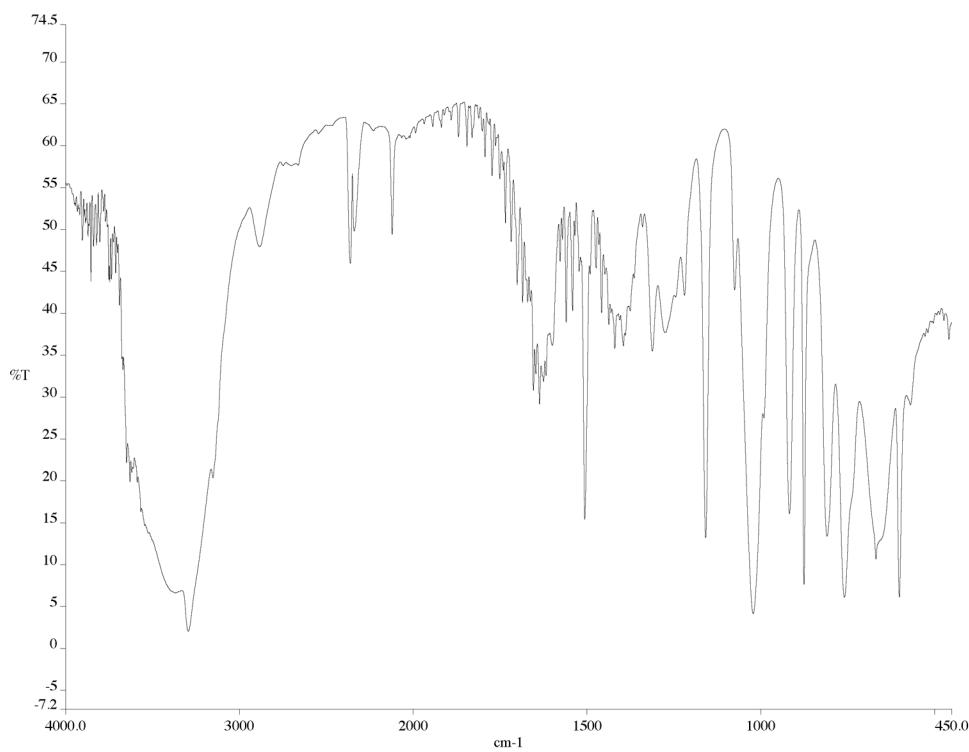


Figure A14 Infrared spectrum (thin film/NaCl) of compound **6a**.

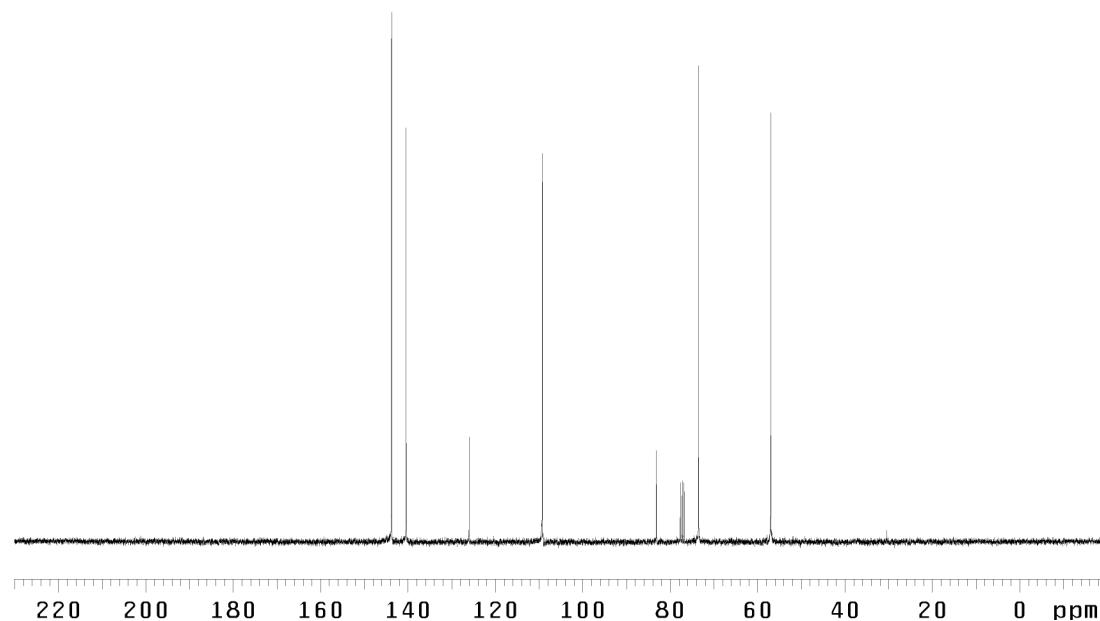


Figure A15 <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **6a**.

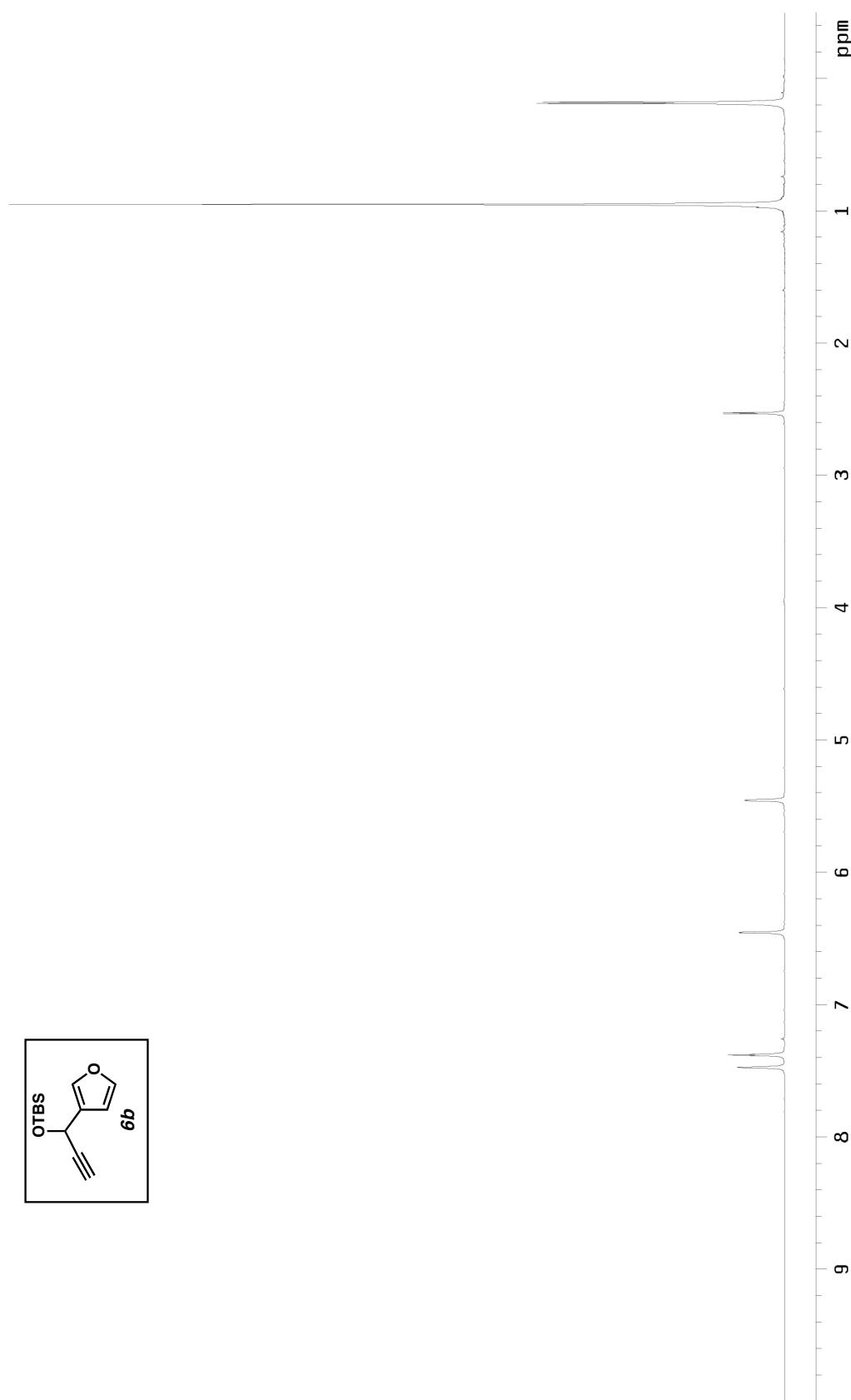


Figure A16  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound **6b**.

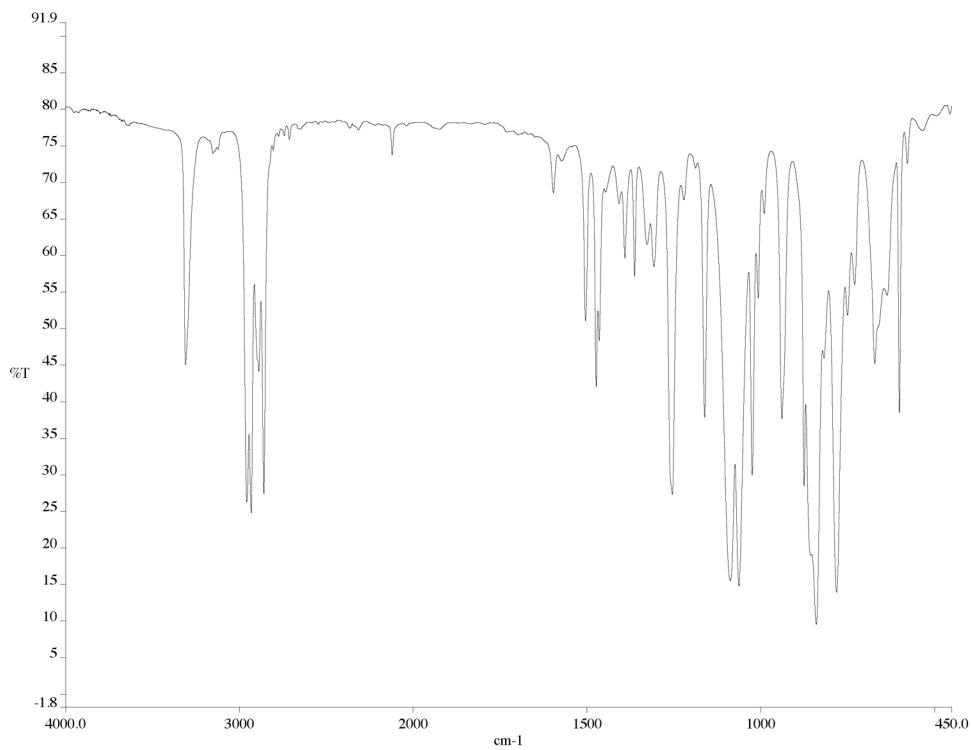


Figure A17 Infrared spectrum (thin film/NaCl) of compound **6b**.

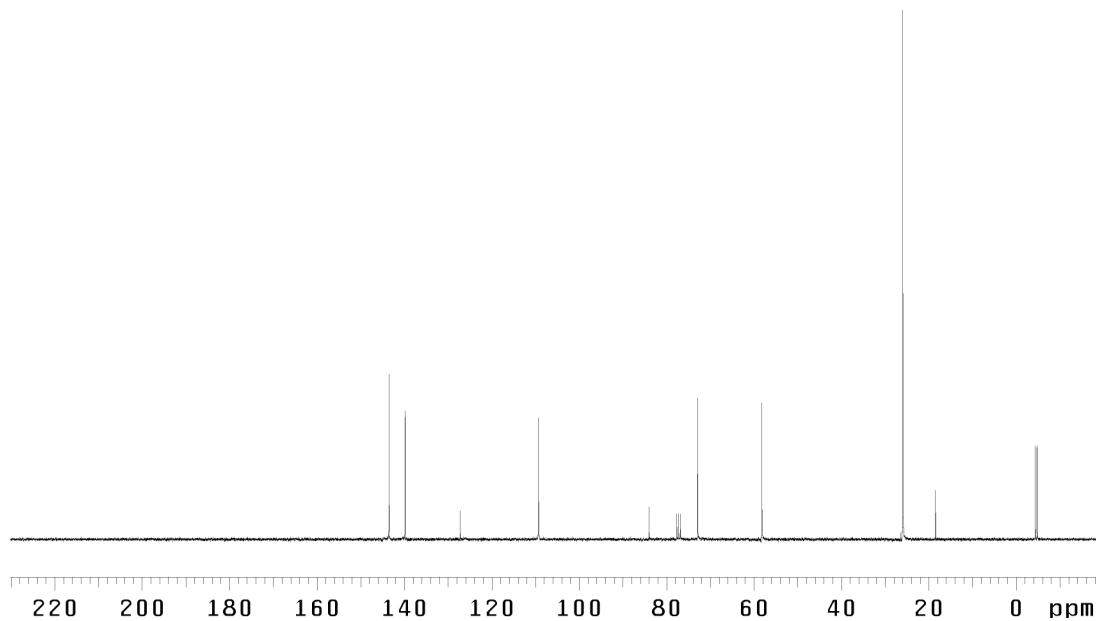


Figure A18 <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **6b**.

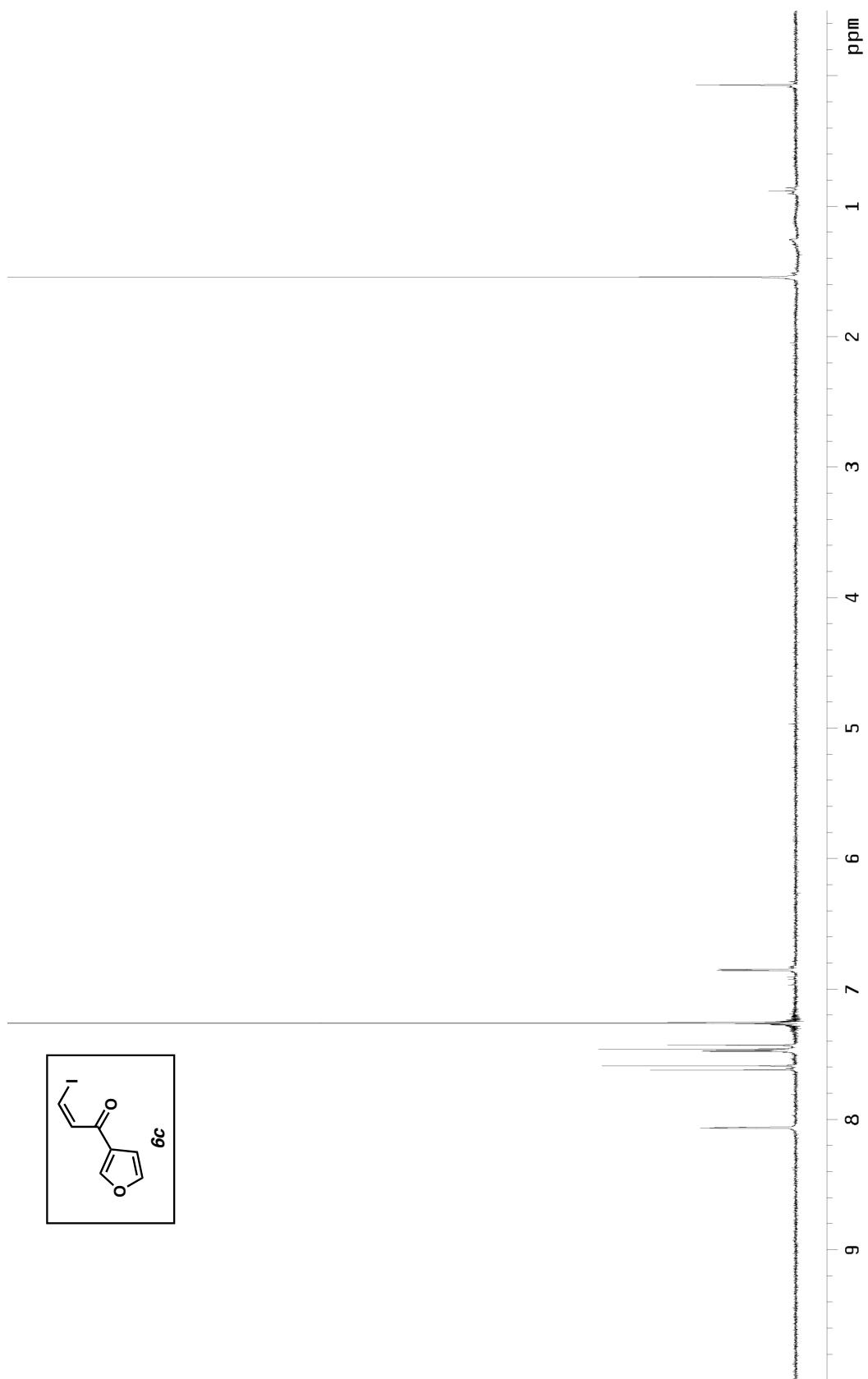


Figure A19  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound **6c**.

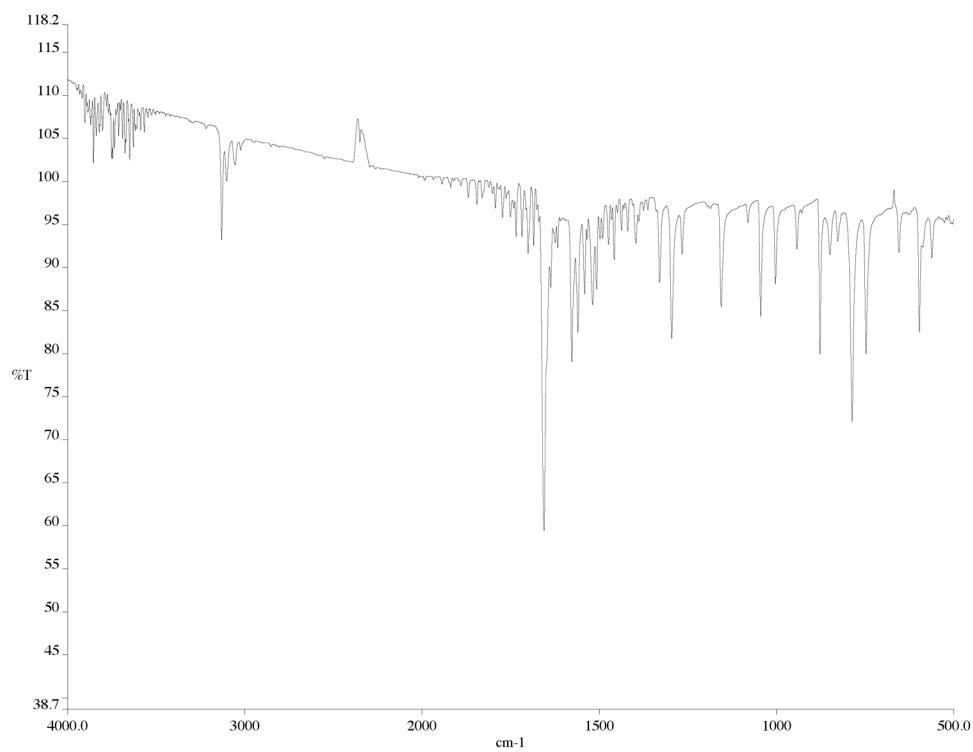


Figure A20 Infrared spectrum (thin film/NaCl) of compound **6c**.

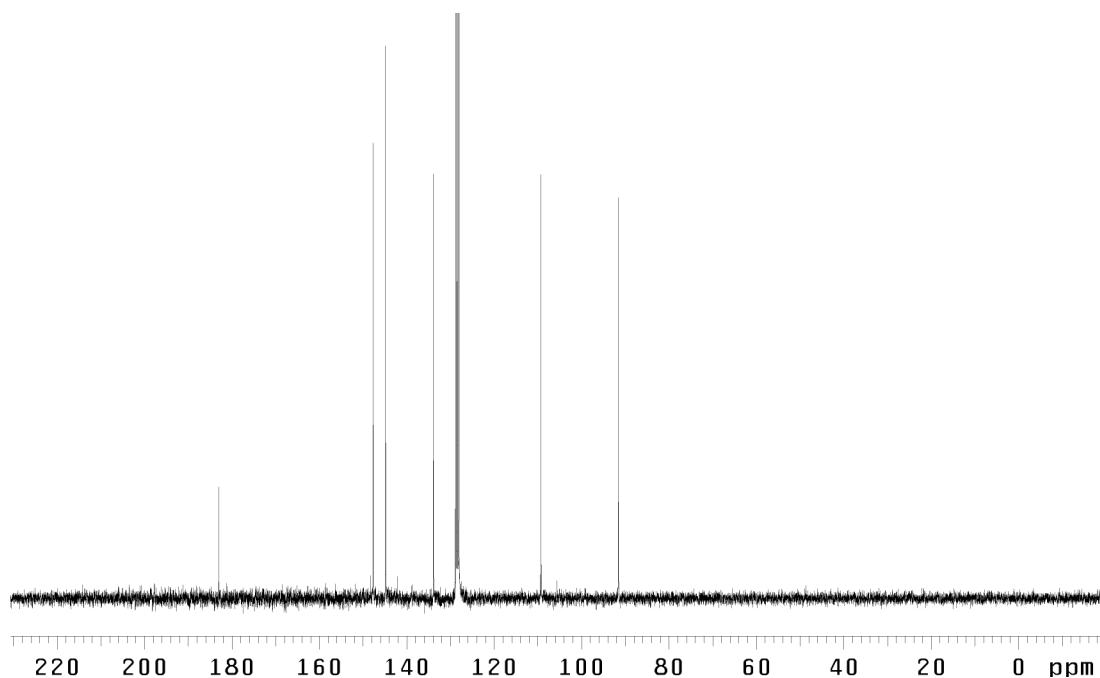


Figure A21 <sup>13</sup>C NMR (75 MHz, C<sub>6</sub>D<sub>6</sub>) of compound **6c**.

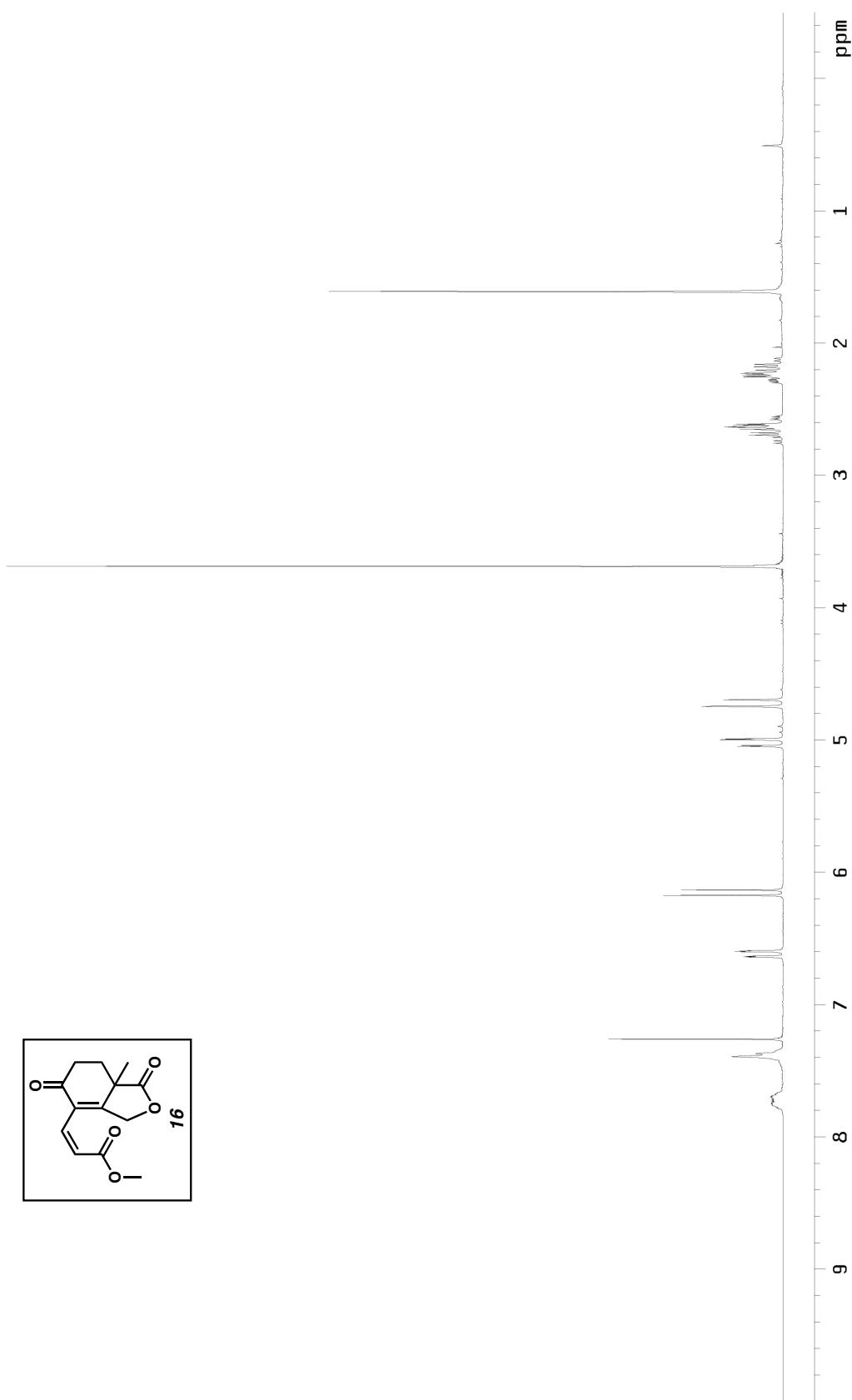


Figure A22  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound **16**.

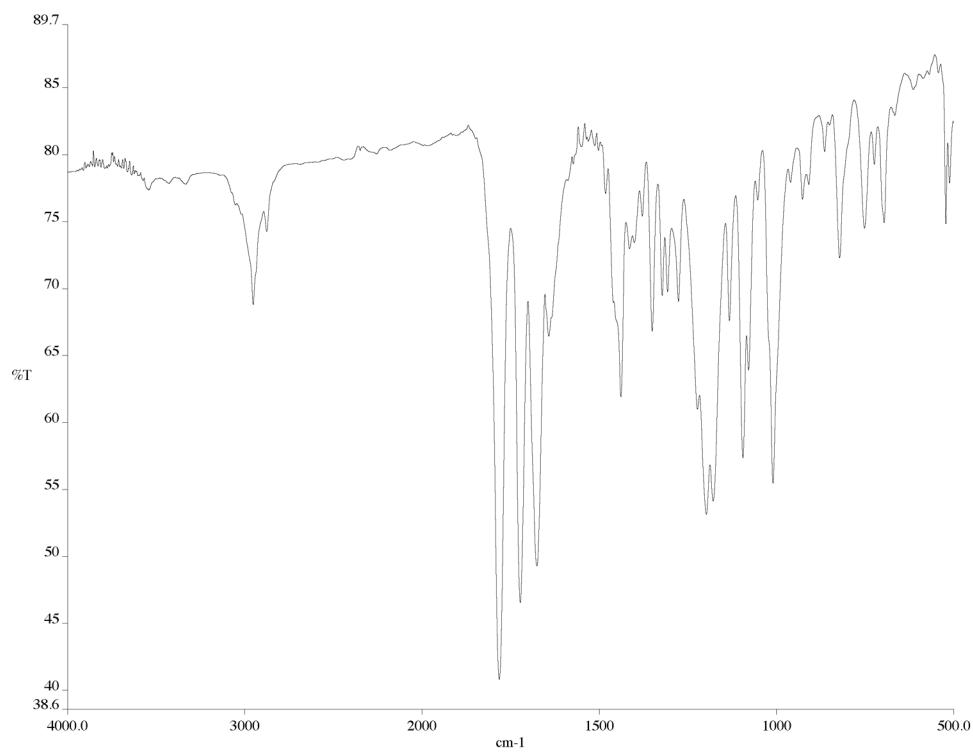


Figure A23 Infrared spectrum (thin film/NaCl) of compound **16**.

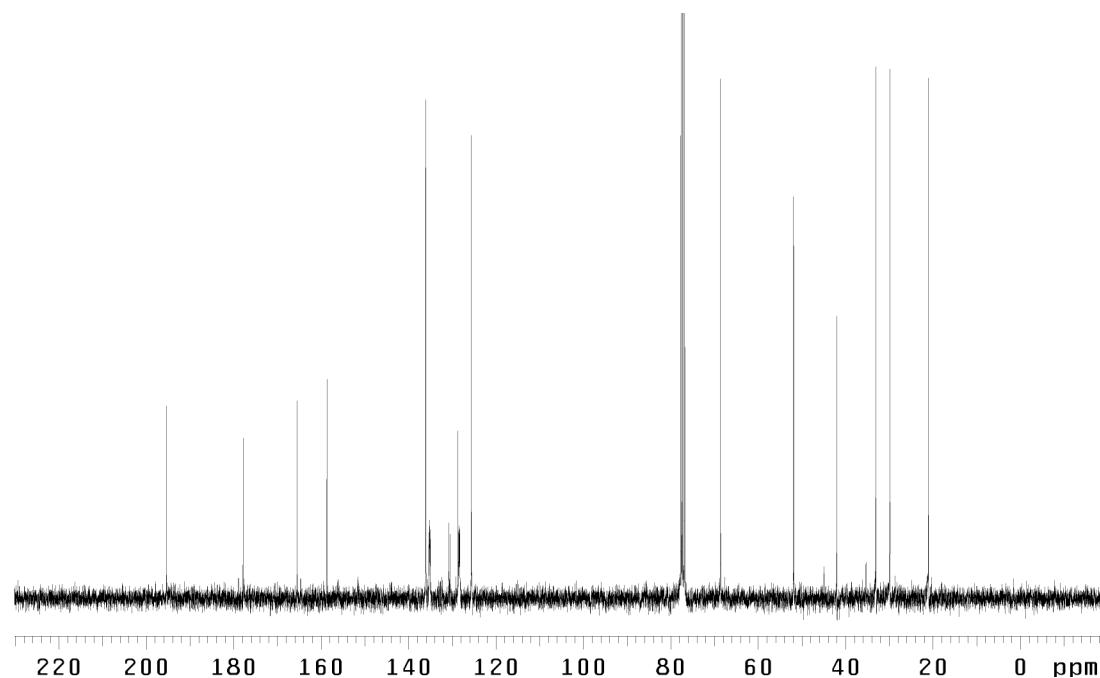


Figure A24  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **16**.

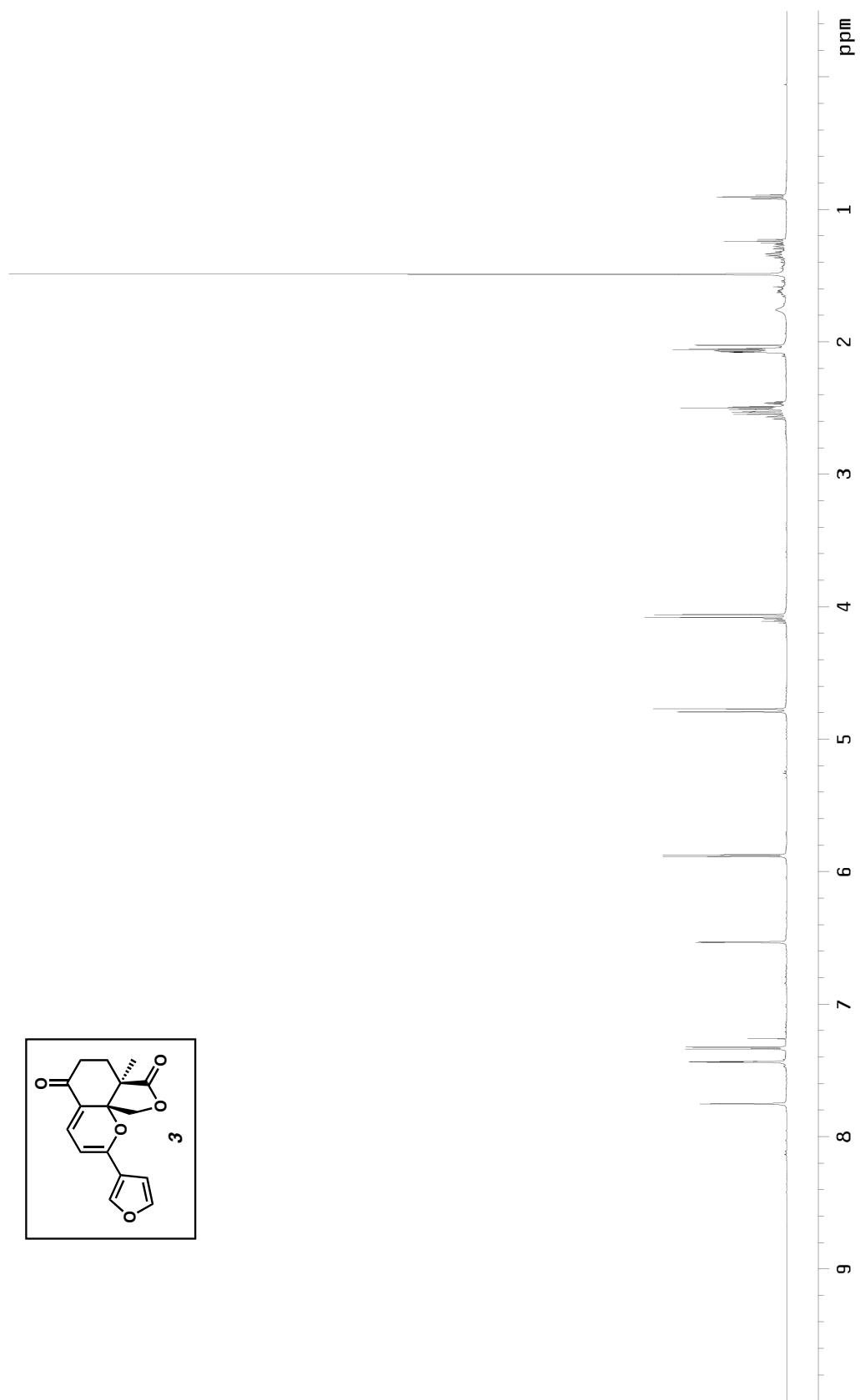


Figure A25  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 3.

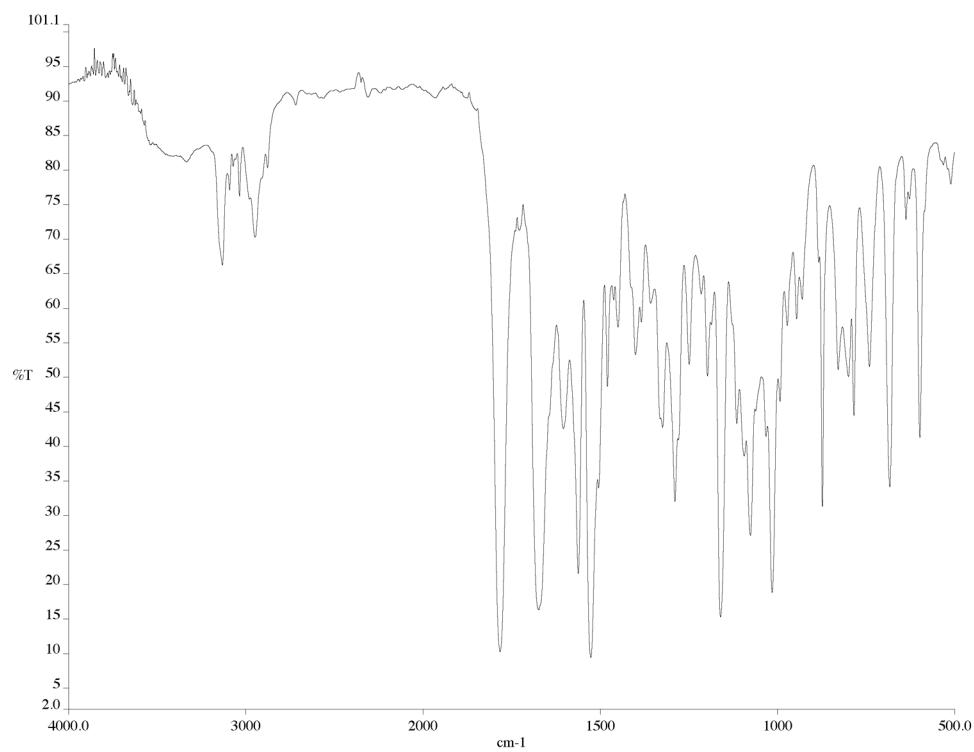


Figure A26 Infrared spectrum (thin film/NaCl) of compound **3**.

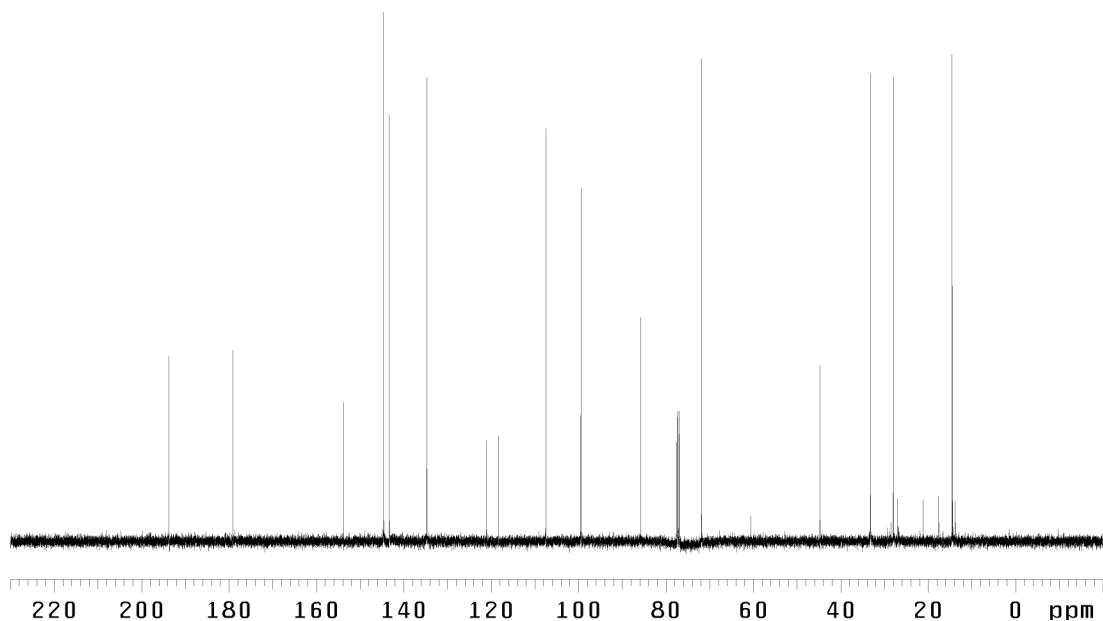


Figure A27  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **3**.

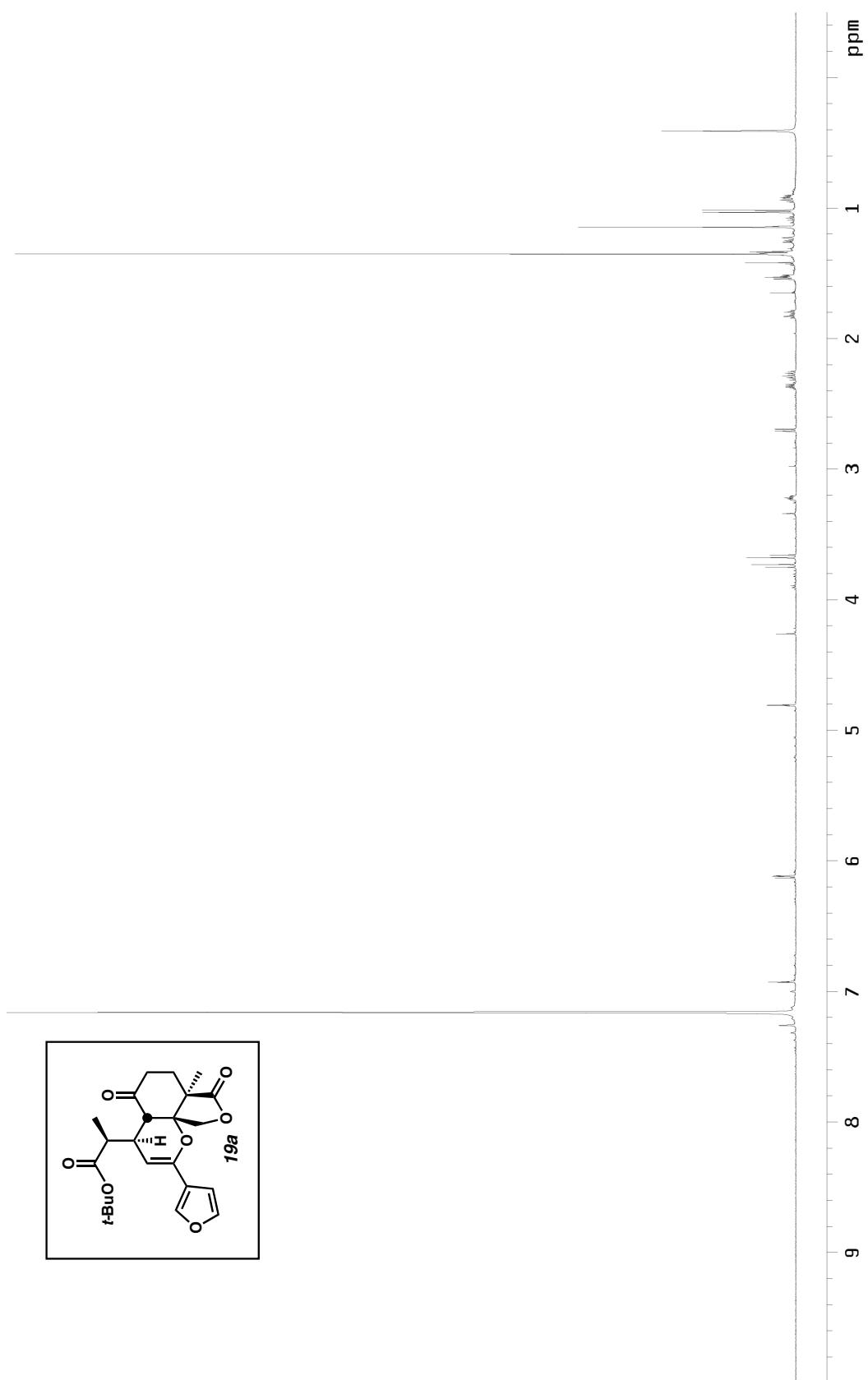


Figure A28  $^1\text{H}$  NMR (500 MHz,  $\text{C}_6\text{D}_6$ ) of compound 19a.

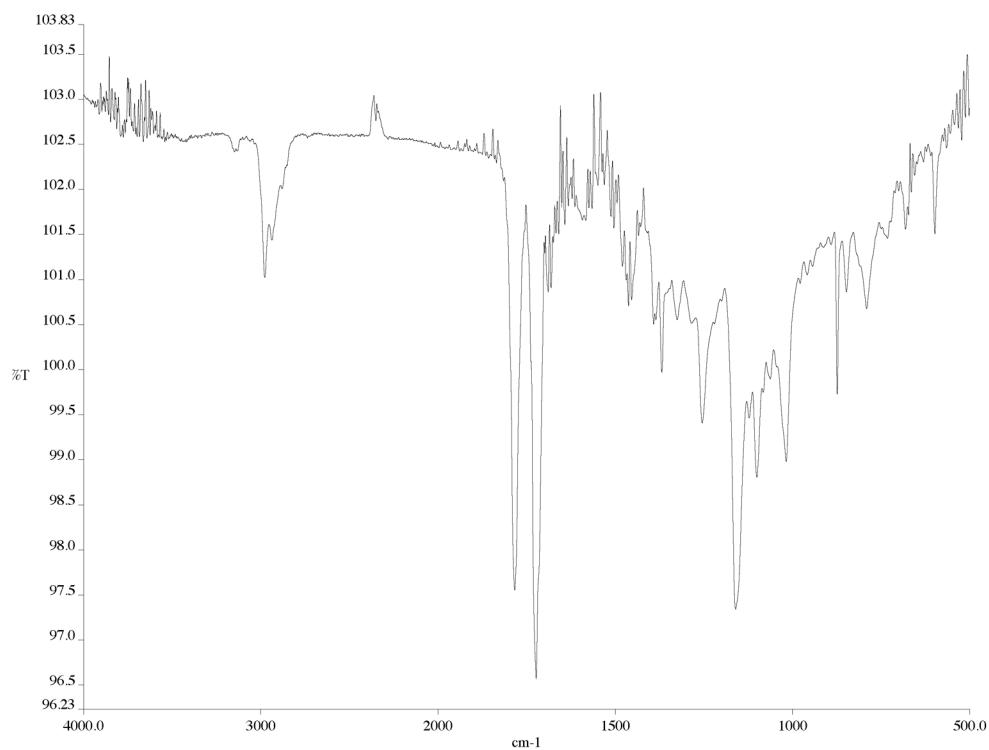


Figure A29 Infrared spectrum (thin film/NaCl) of compound **19a**.

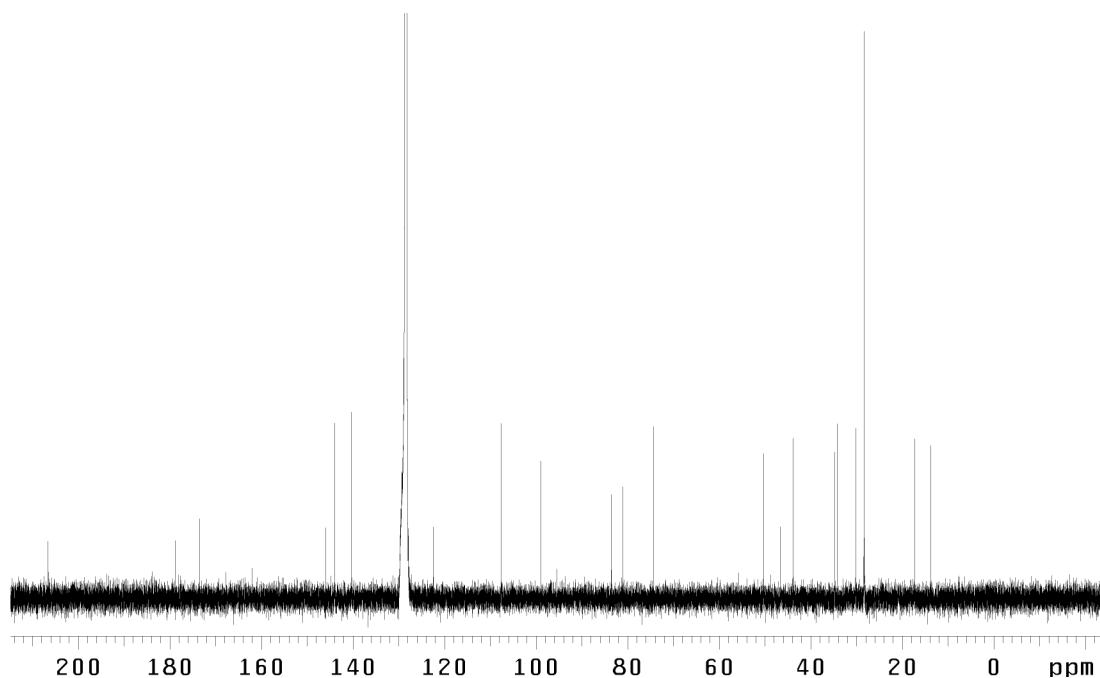


Figure A30 <sup>13</sup>C NMR (125 MHz, C<sub>6</sub>D<sub>6</sub>) of compound **19a**.

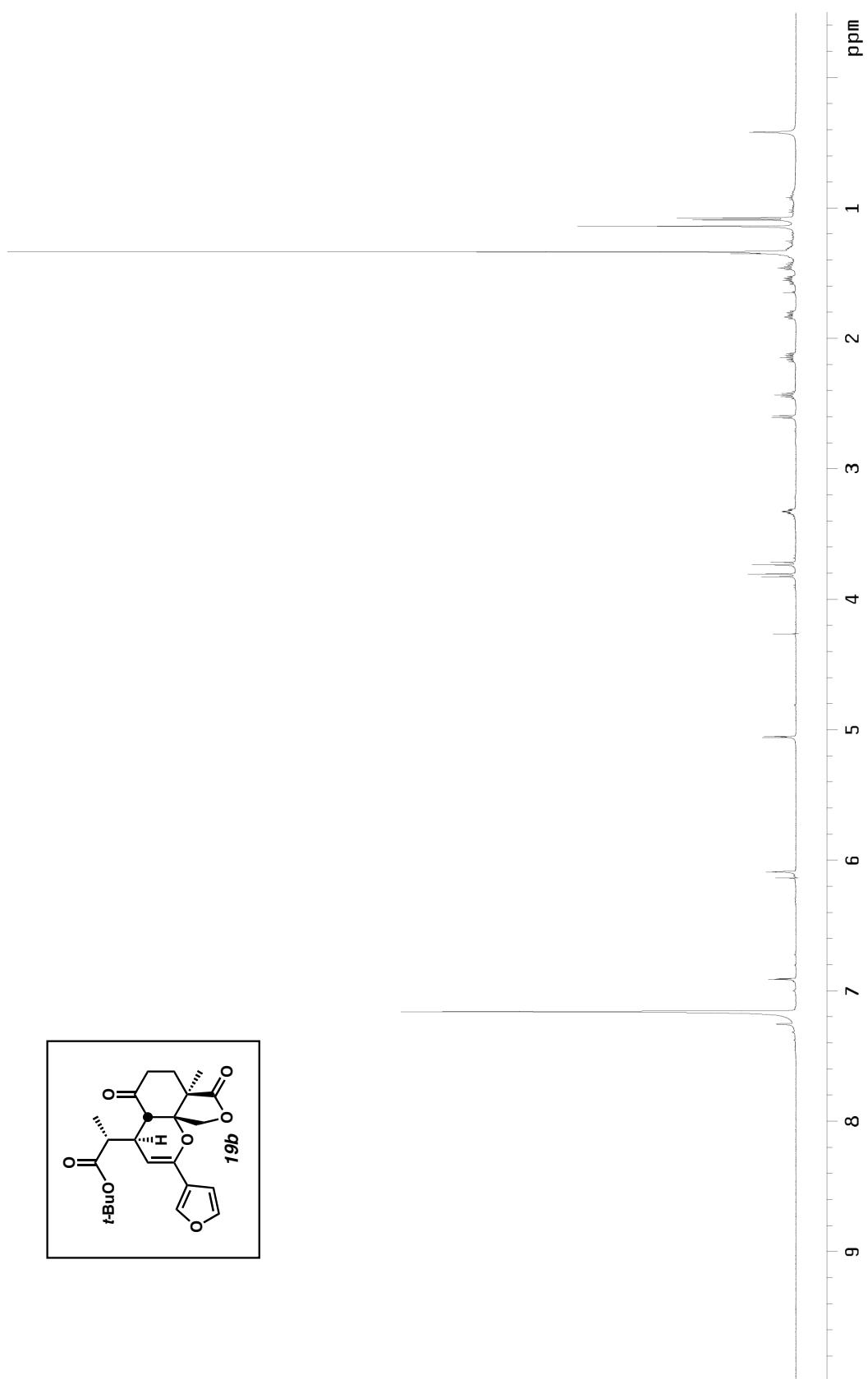


Figure A31  $^1\text{H}$  NMR (500 MHz,  $\text{C}_6\text{D}_6$ ) of compound **19b**.

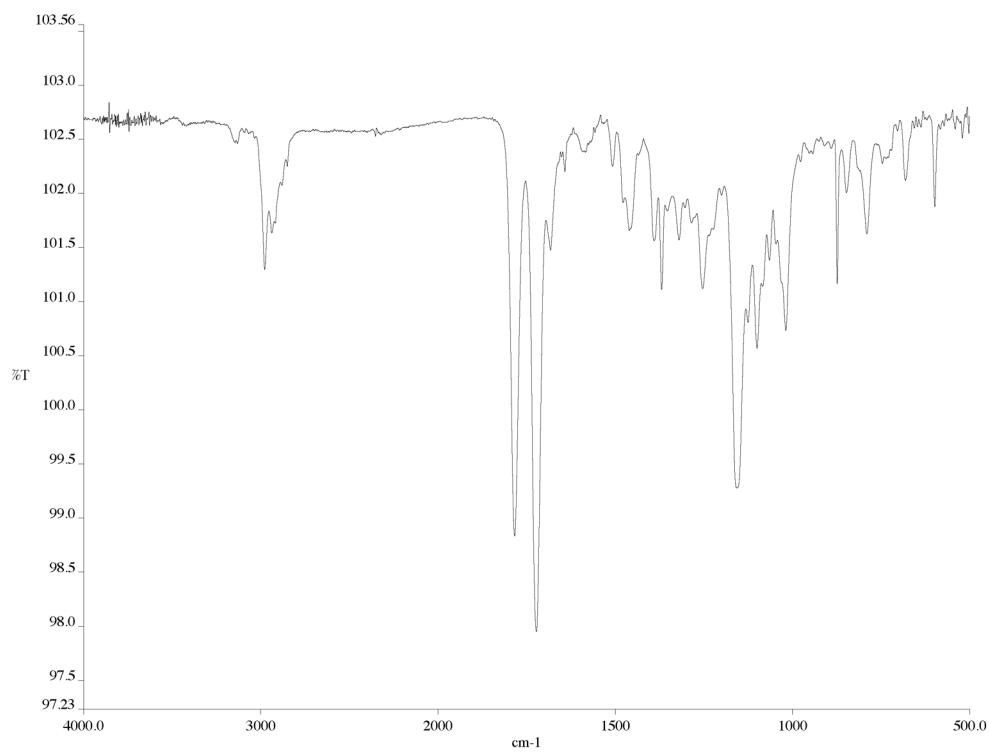


Figure A32 Infrared spectrum (thin film/NaCl) of compound **19b**.

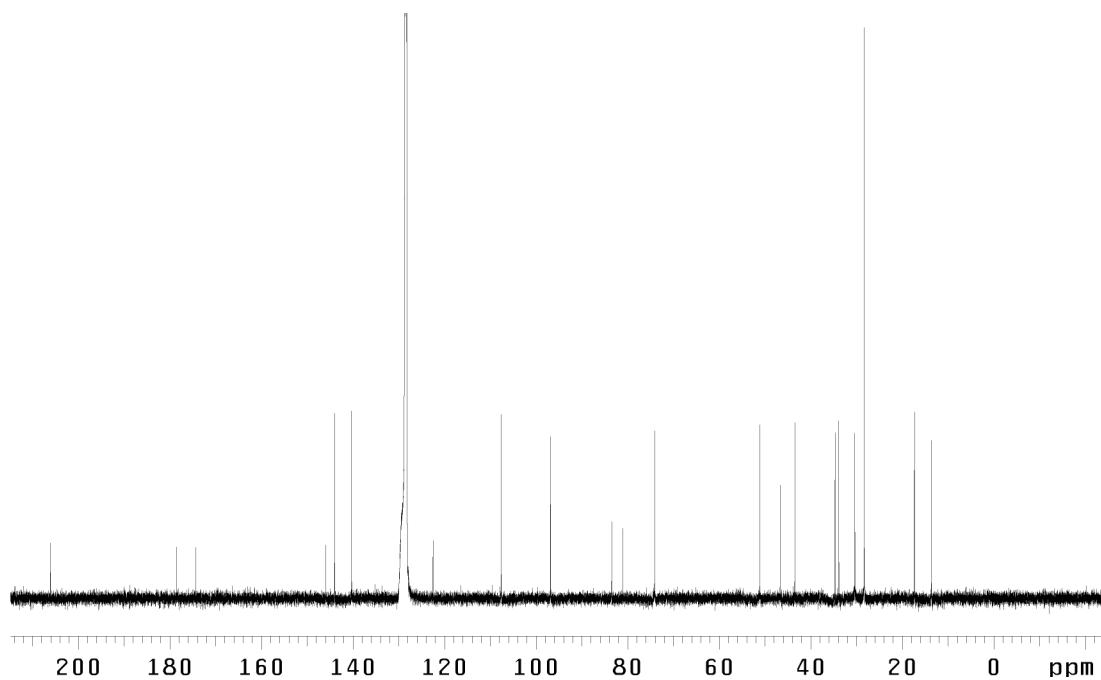


Figure A33 <sup>13</sup>C NMR (125 MHz, C<sub>6</sub>D<sub>6</sub>) of compound **19b**.

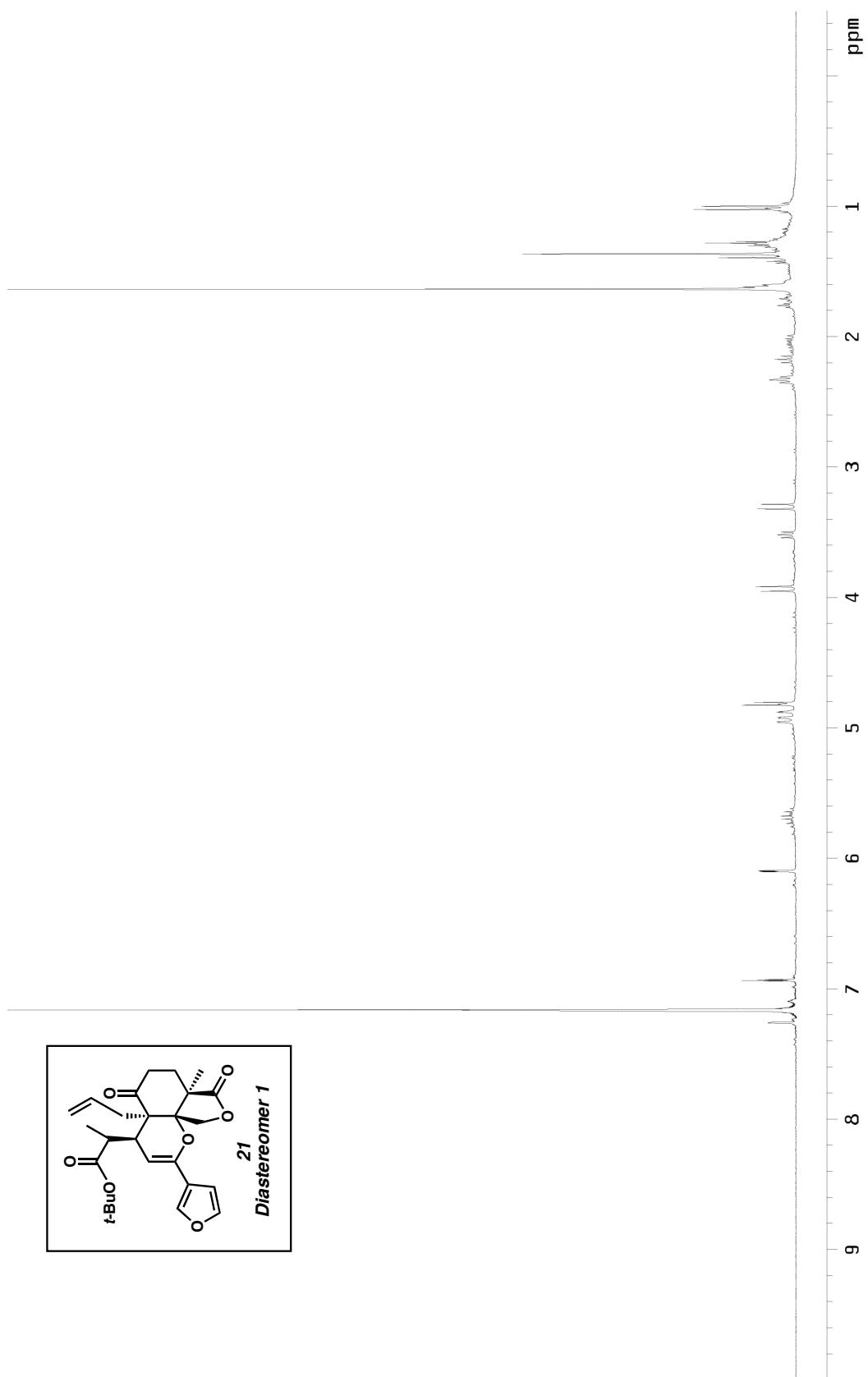


Figure A34 <sup>1</sup>H NMR (300 MHz, C<sub>6</sub>D<sub>6</sub>) of compound 21(1).

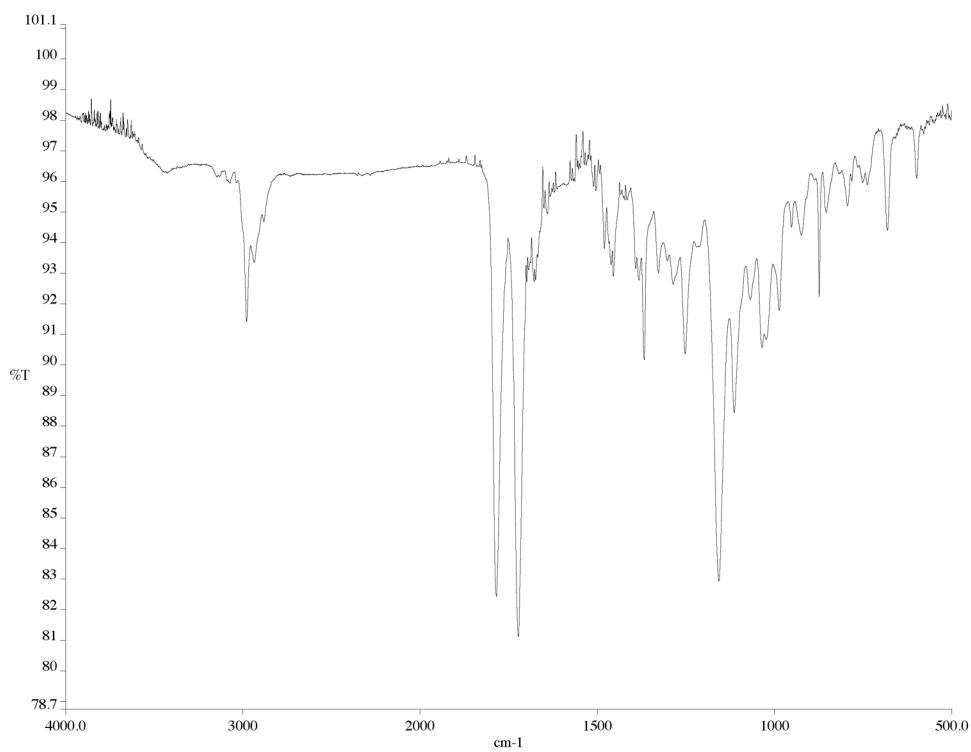


Figure A35 Infrared spectrum (thin film/NaCl) of compound **21(1)**.

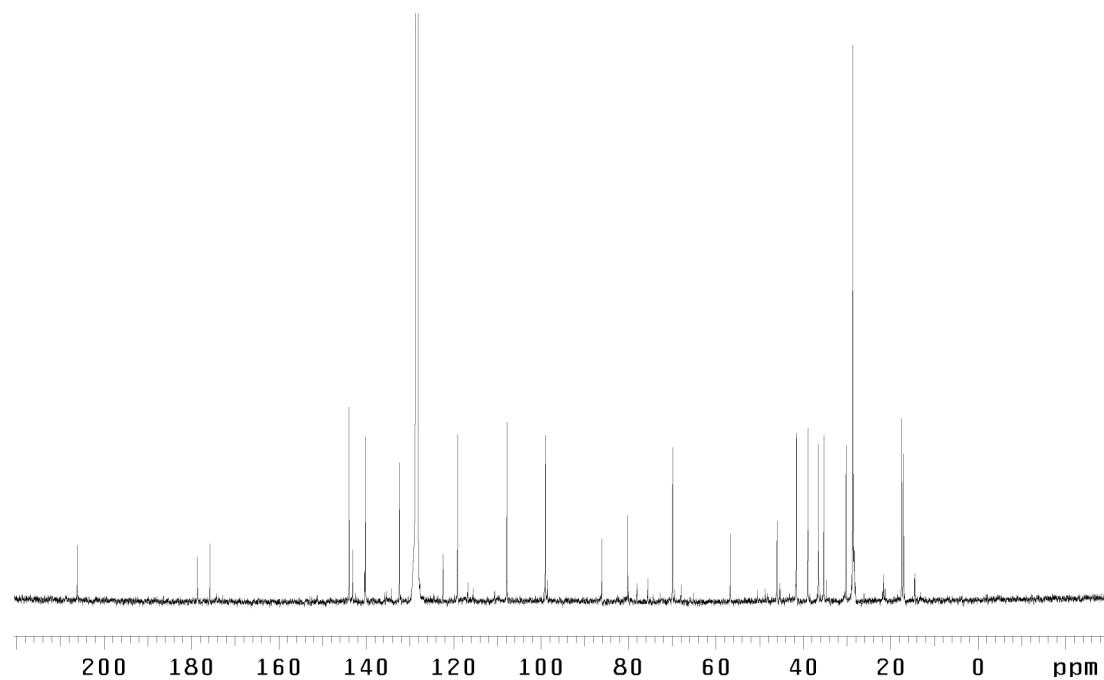


Figure A36  $^{13}\text{C}$  NMR (125 MHz,  $\text{C}_6\text{D}_6$ ) of compound **21(1)**.

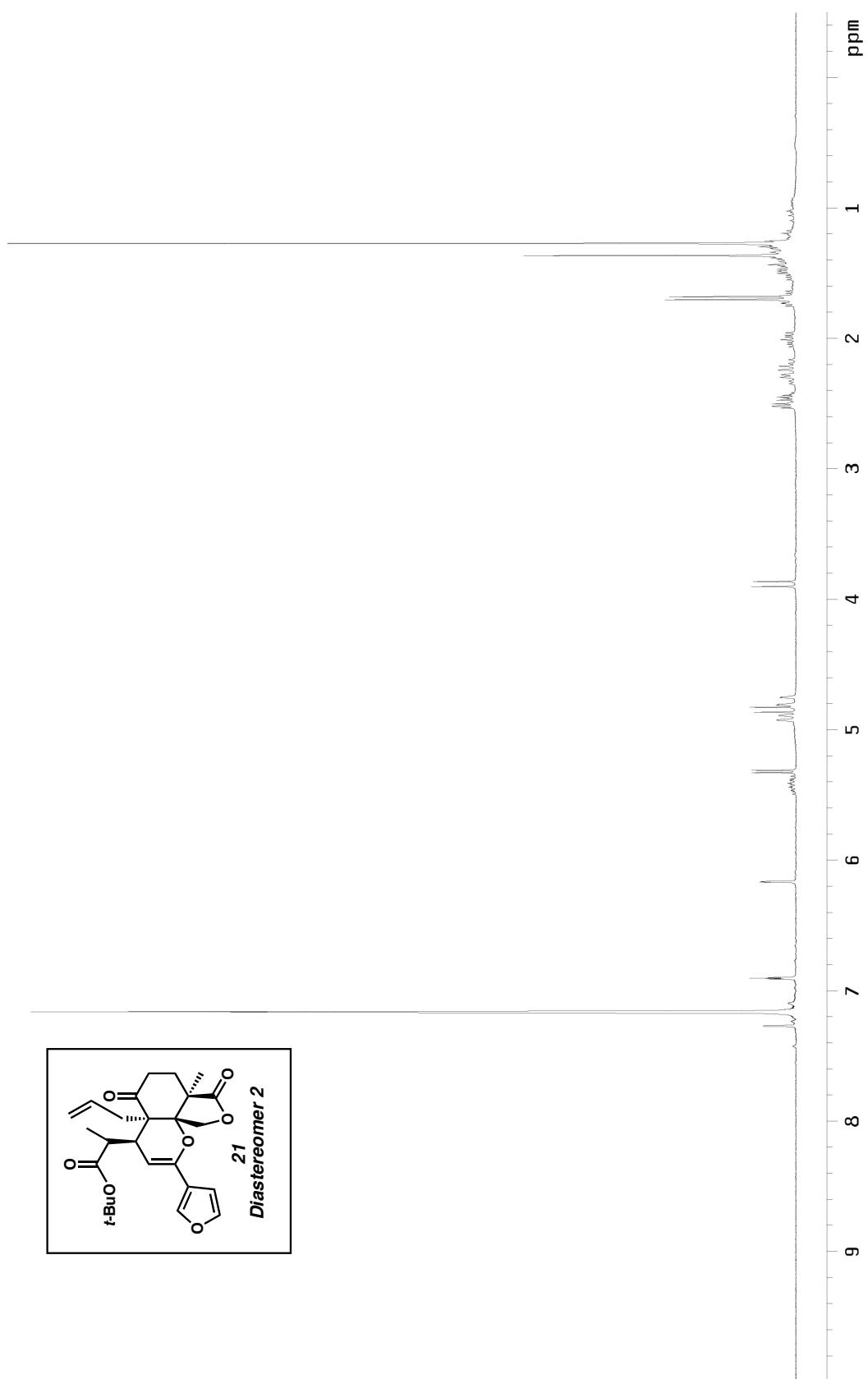


Figure A37  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound **21(2)**.

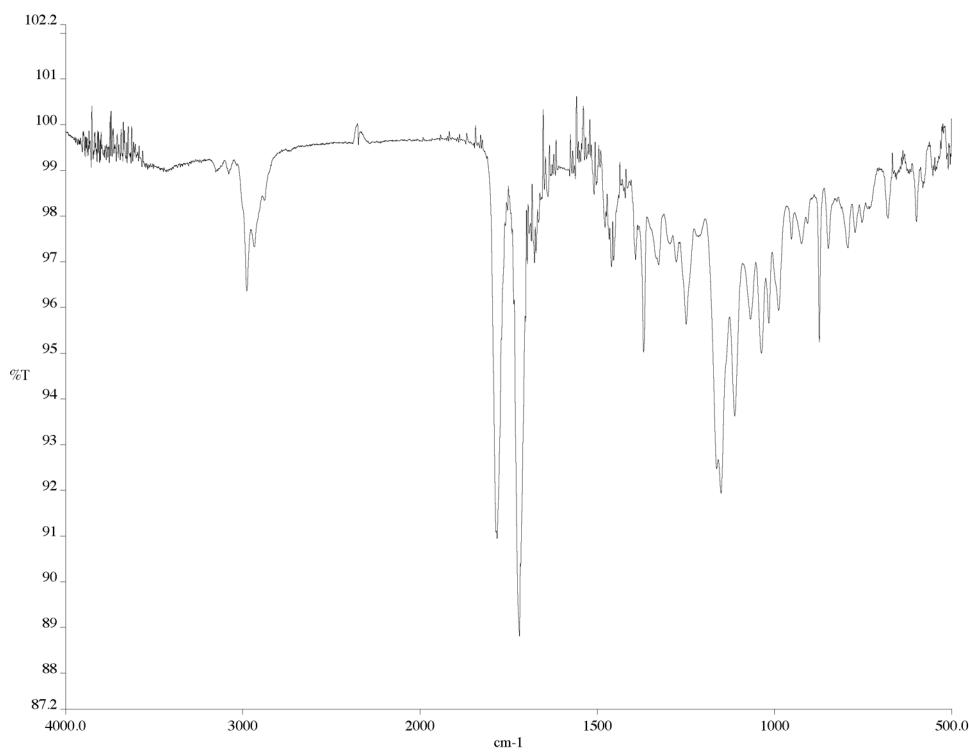


Figure A38 Infrared spectrum (thin film/NaCl) of compound **21(2)**.

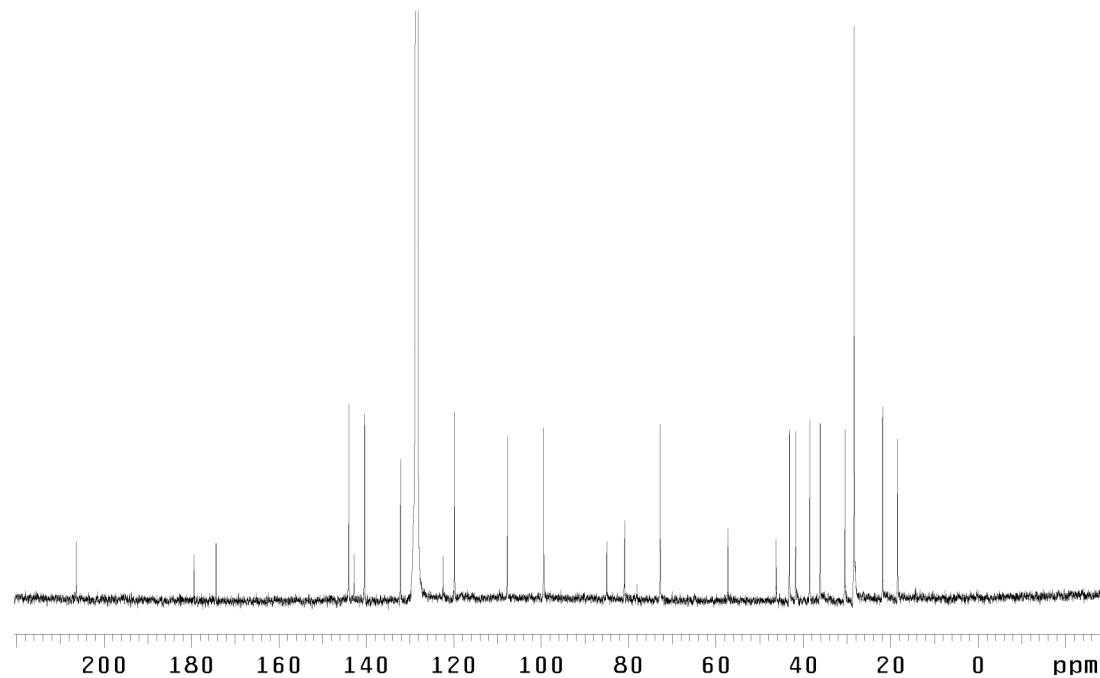


Figure A39 <sup>13</sup>C NMR (125 MHz, C<sub>6</sub>D<sub>6</sub>) of compound **21(2)**.

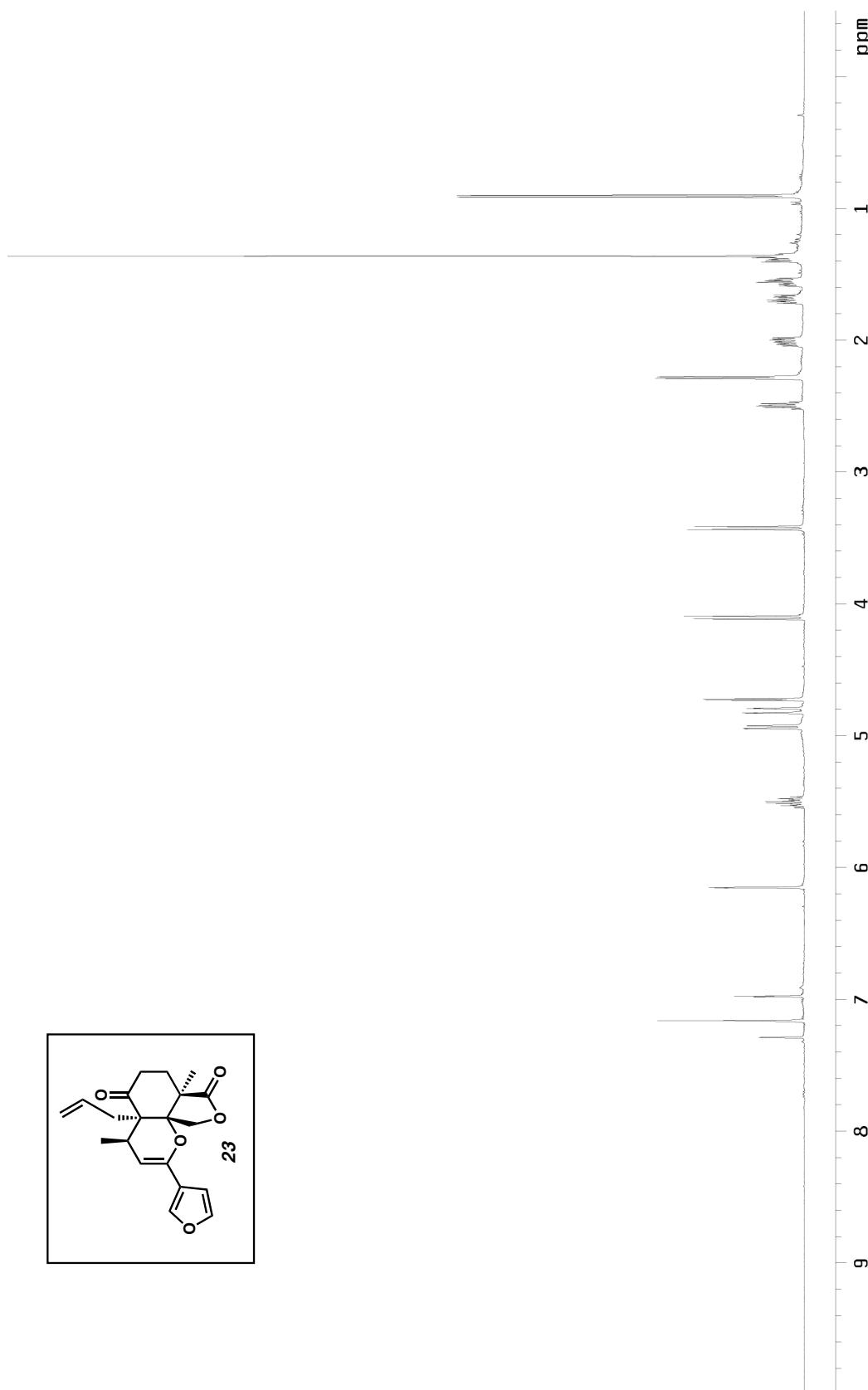


Figure A40  $^1\text{H}$  NMR (500 MHz,  $\text{C}_6\text{D}_6$ ) of compound 23.

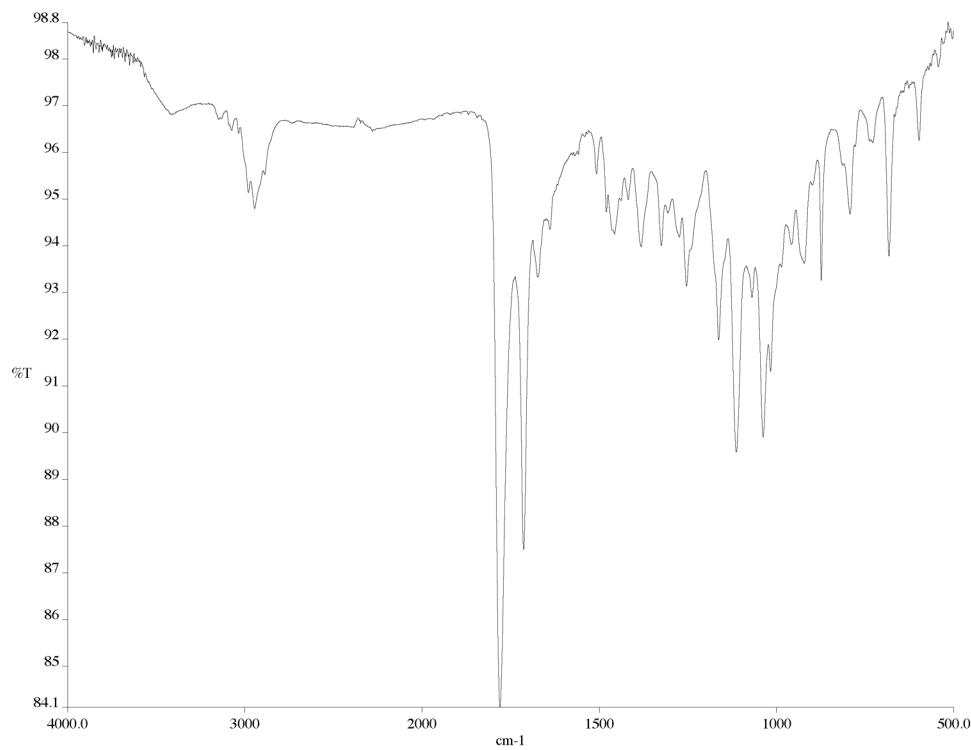


Figure A41 Infrared spectrum (thin film/NaCl) of compound 23.

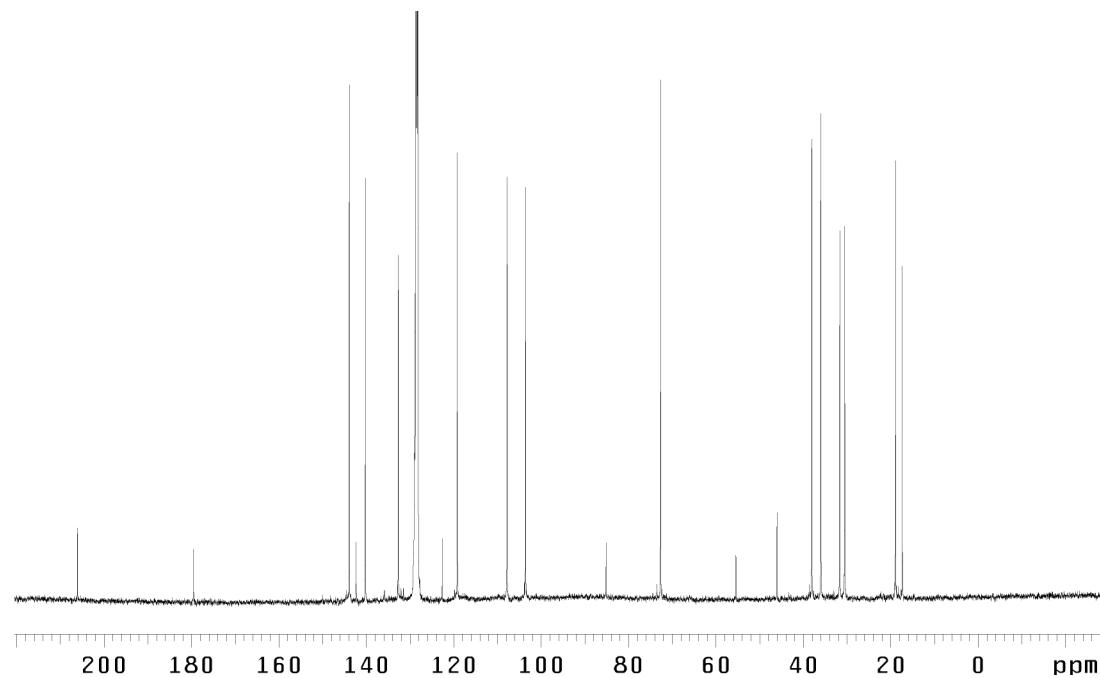


Figure A42 <sup>13</sup>C NMR (125 MHz, C<sub>6</sub>D<sub>6</sub>) of compound 23.

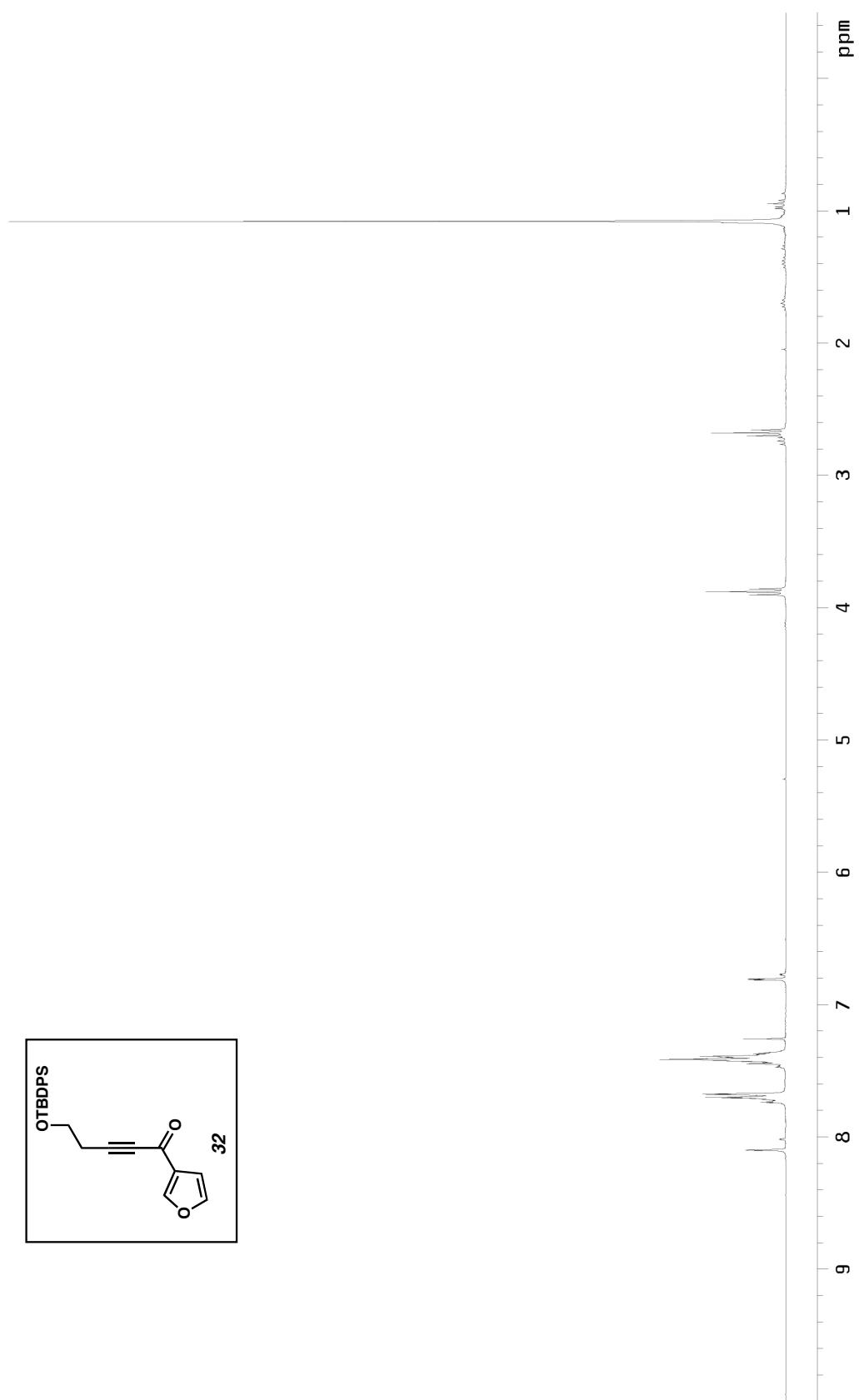


Figure A43  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 32.

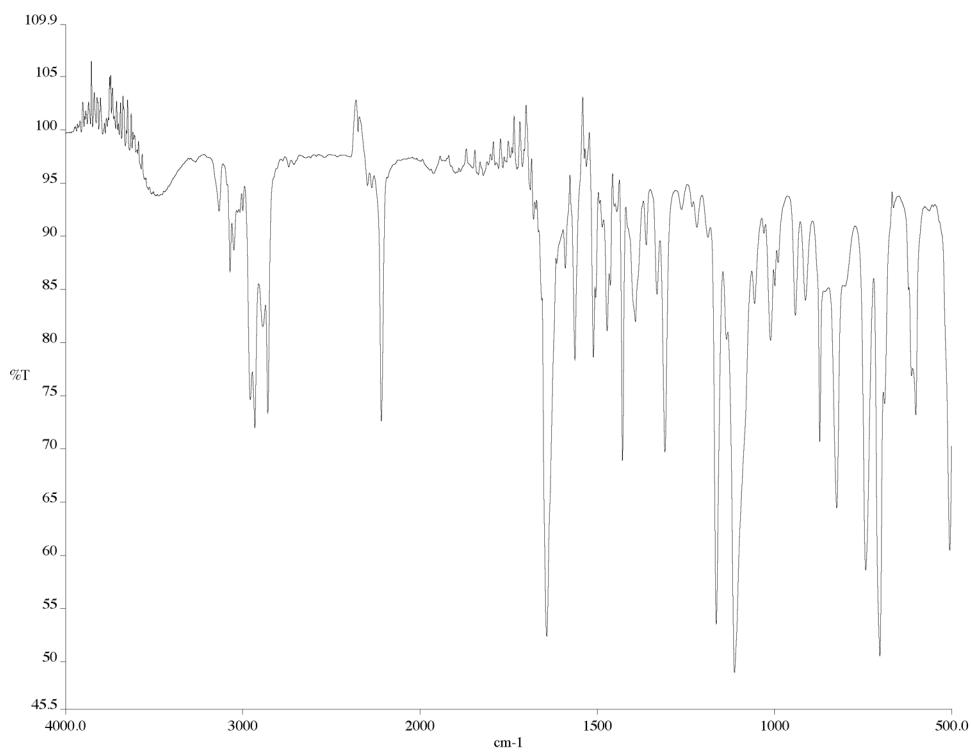


Figure A44 Infrared spectrum (thin film/NaCl) of compound **32**.

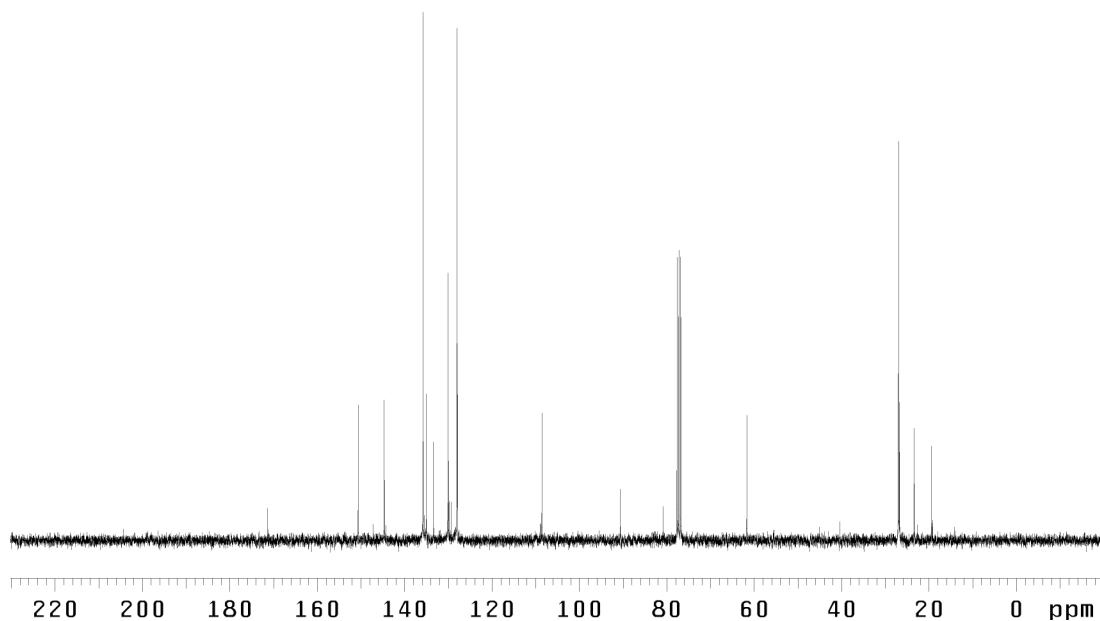


Figure A45 <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **32**.

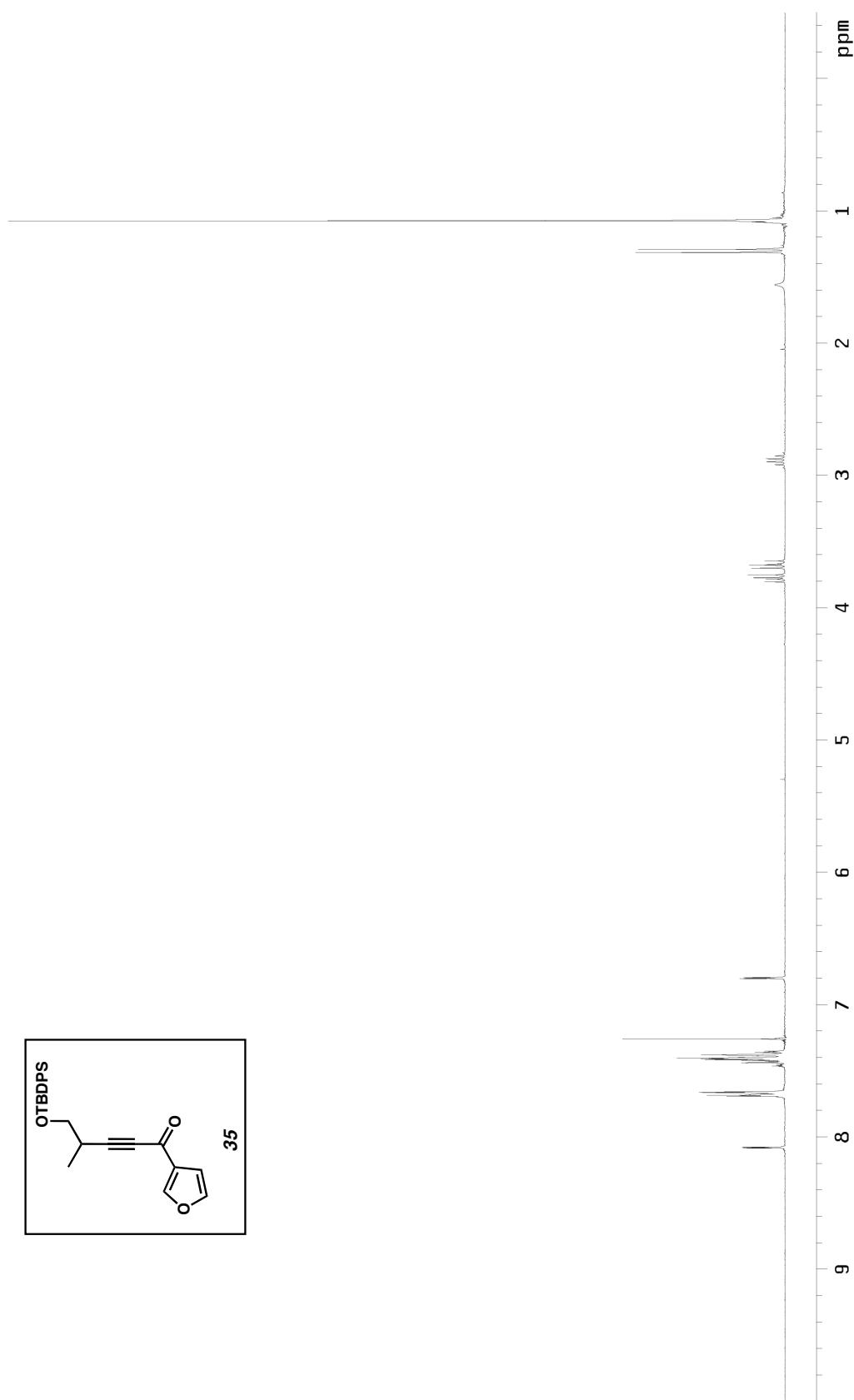


Figure A46  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 35.

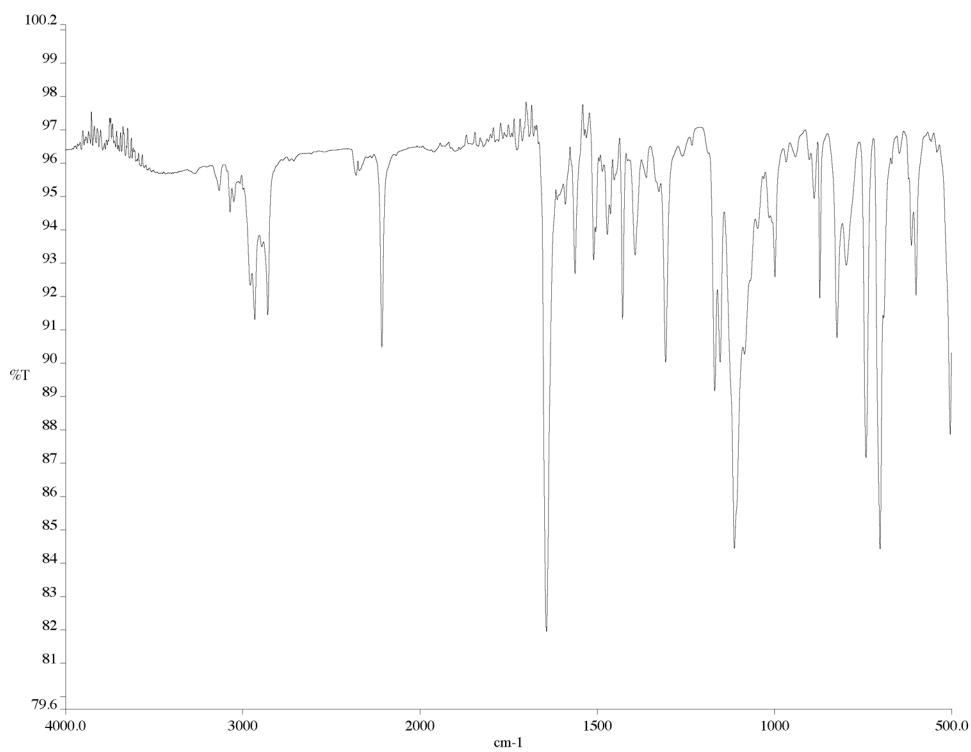


Figure A47 Infrared spectrum (thin film/NaCl) of compound **35**.

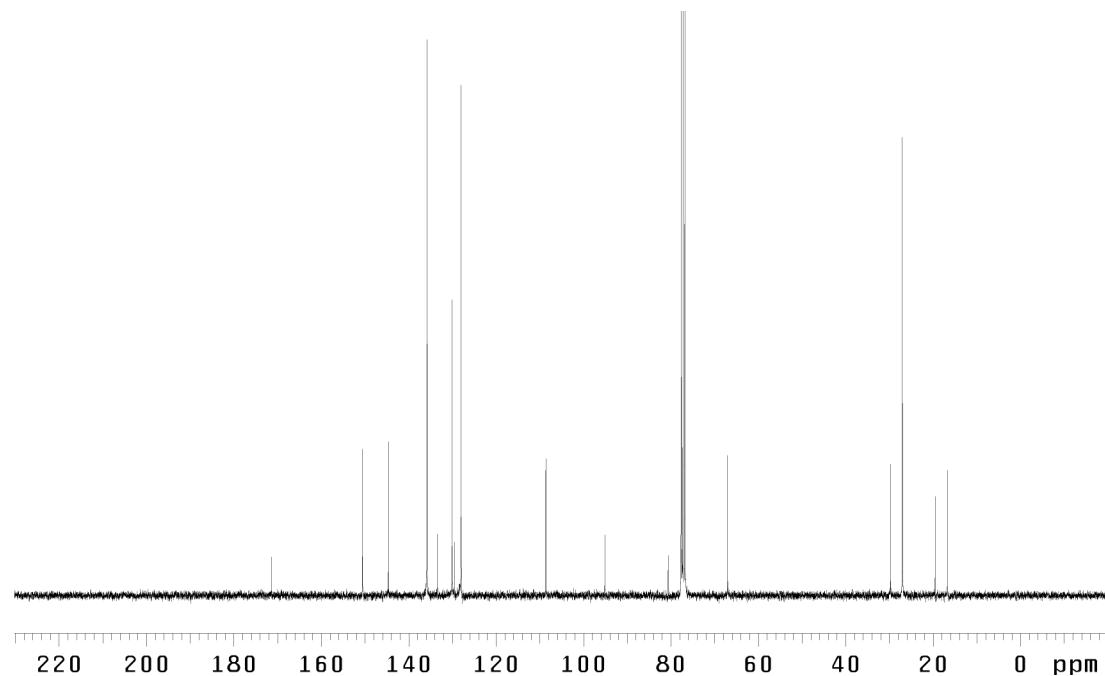


Figure A48 <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **35**.

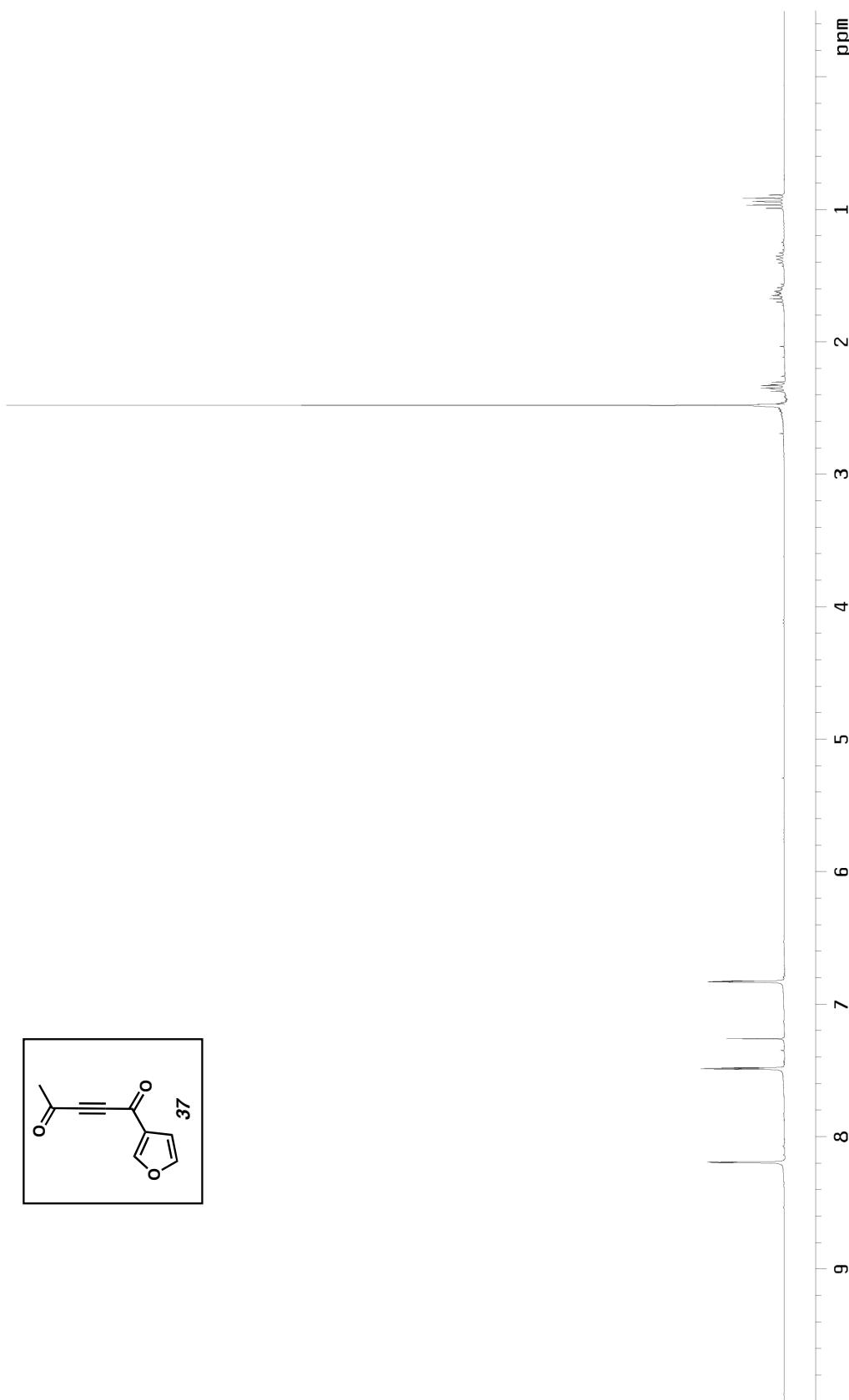


Figure A49  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 37.

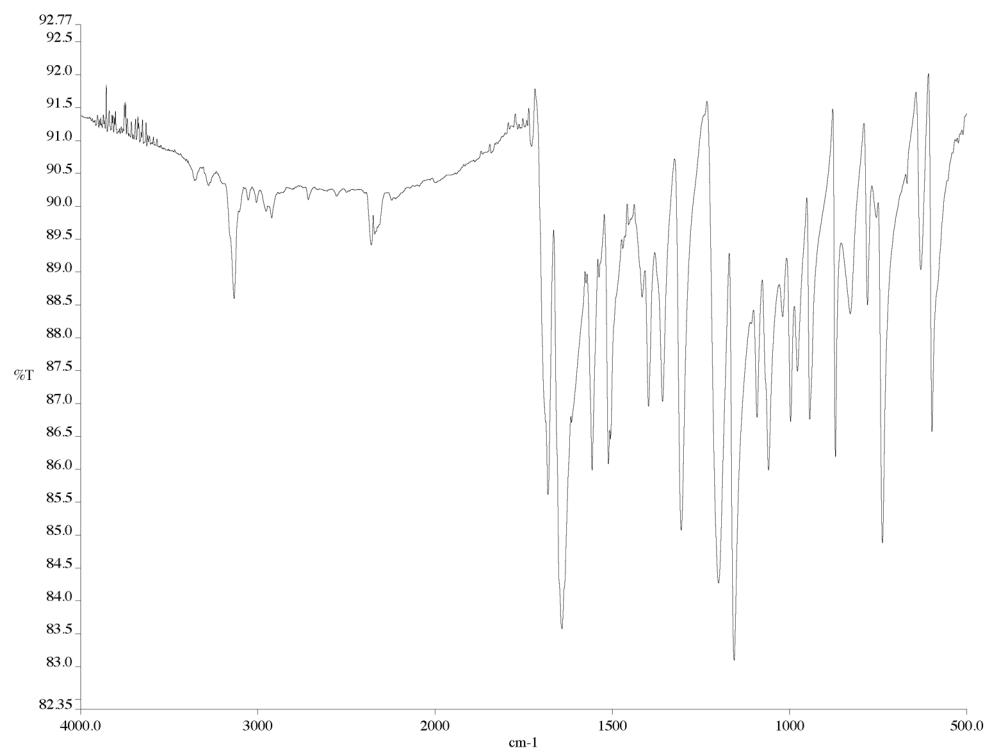


Figure A50 Infrared spectrum (thin film/NaCl) of compound **37**.

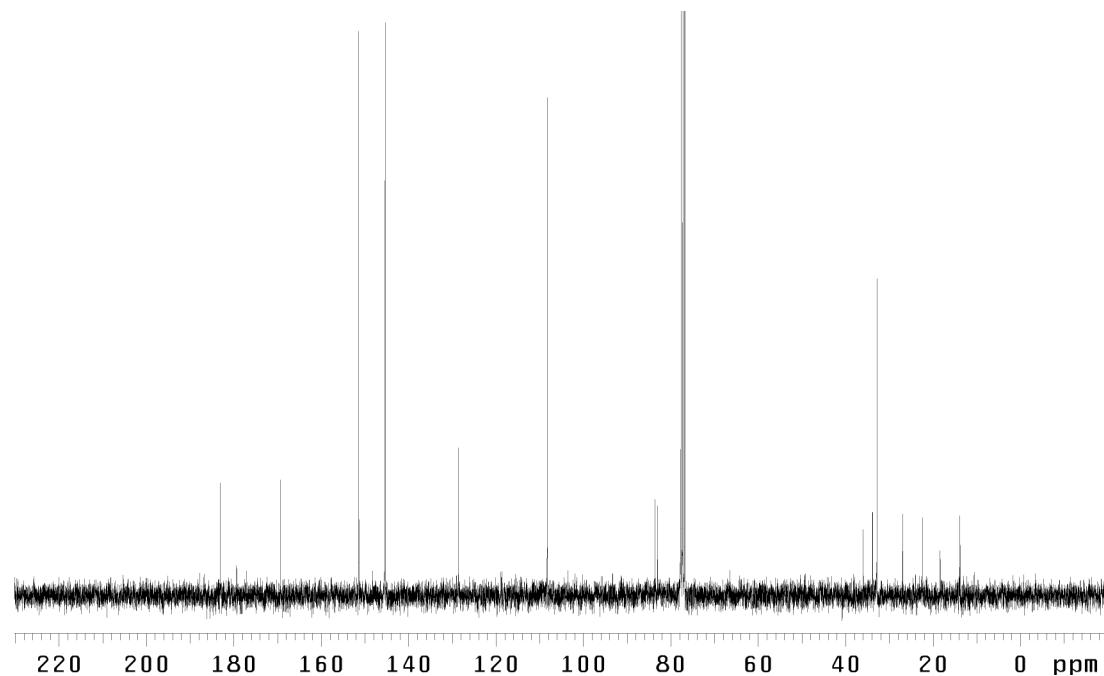


Figure A51  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **37**.

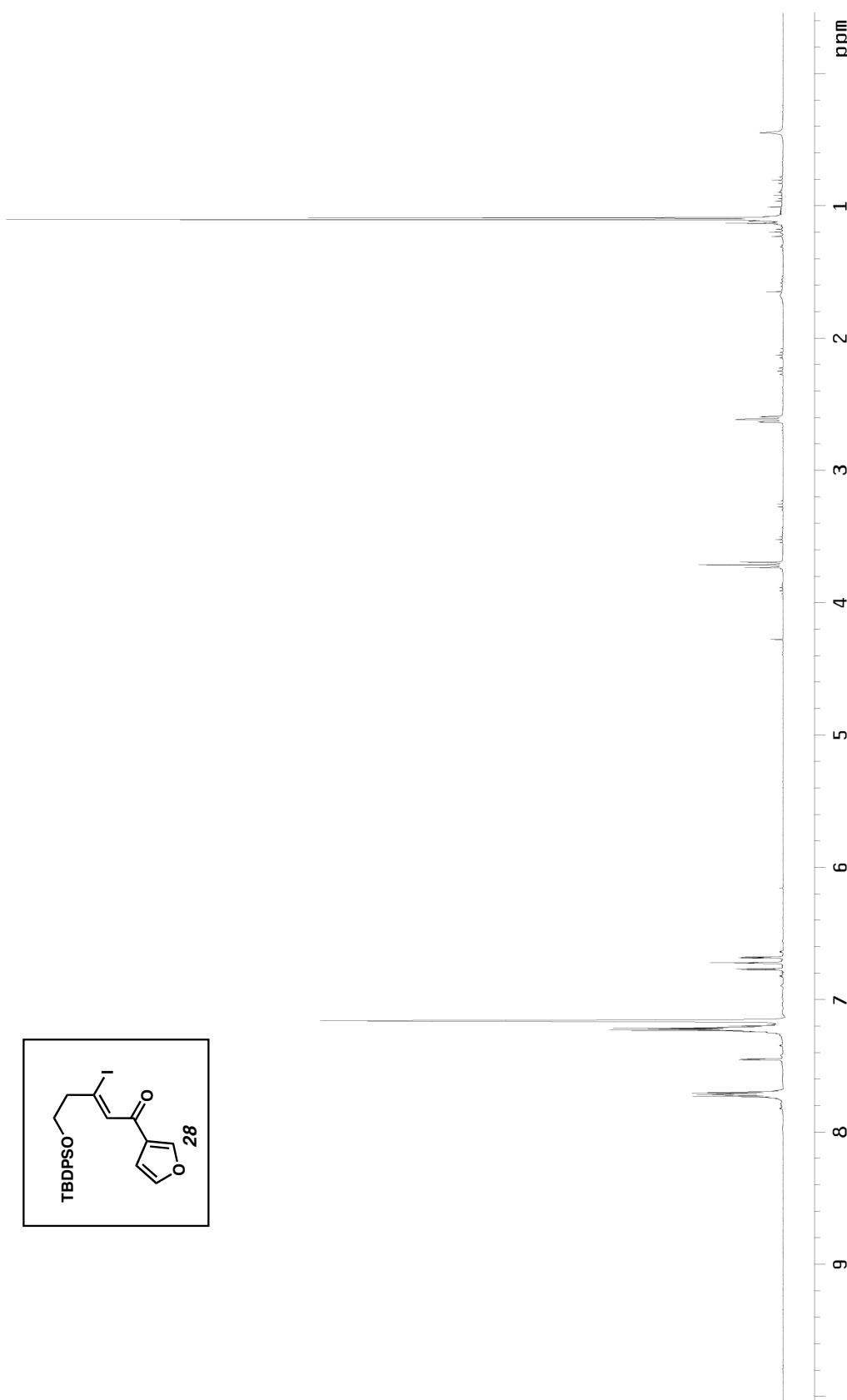


Figure A52  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound 28.

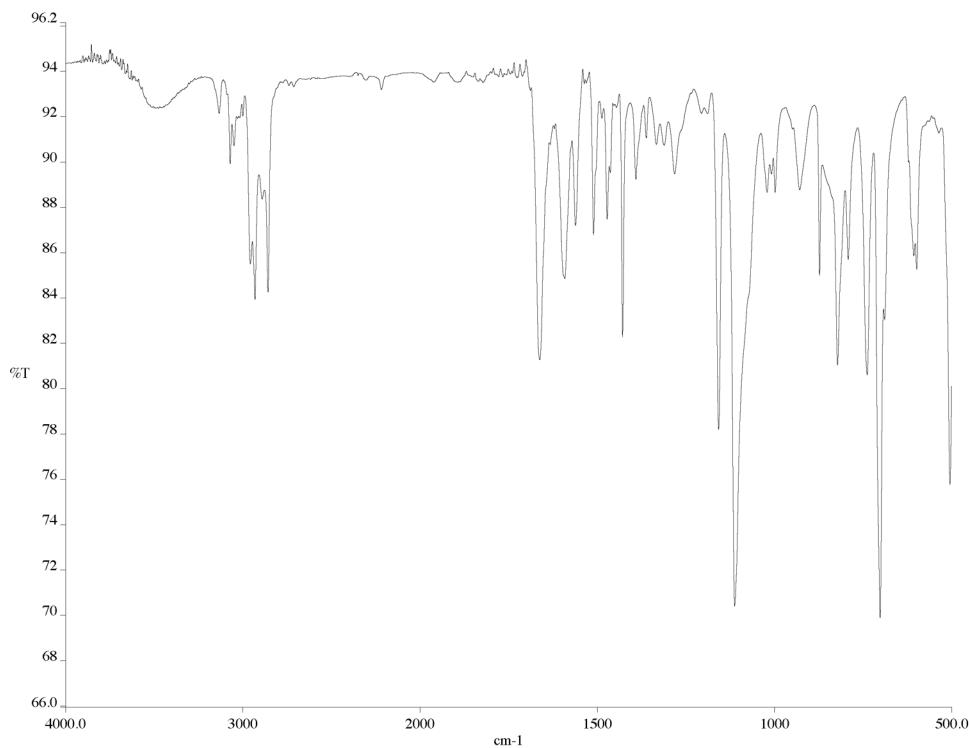


Figure A53 Infrared spectrum (thin film/NaCl) of compound 28.

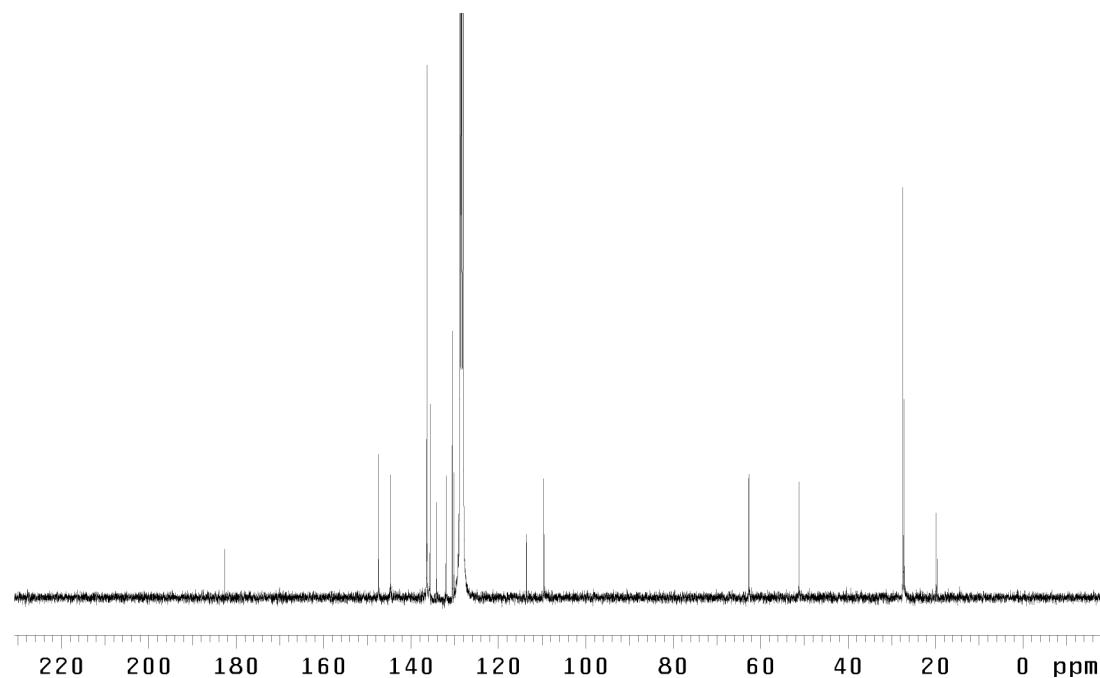


Figure A54 <sup>13</sup>C NMR (75 MHz, C<sub>6</sub>D<sub>6</sub>) of compound 28.

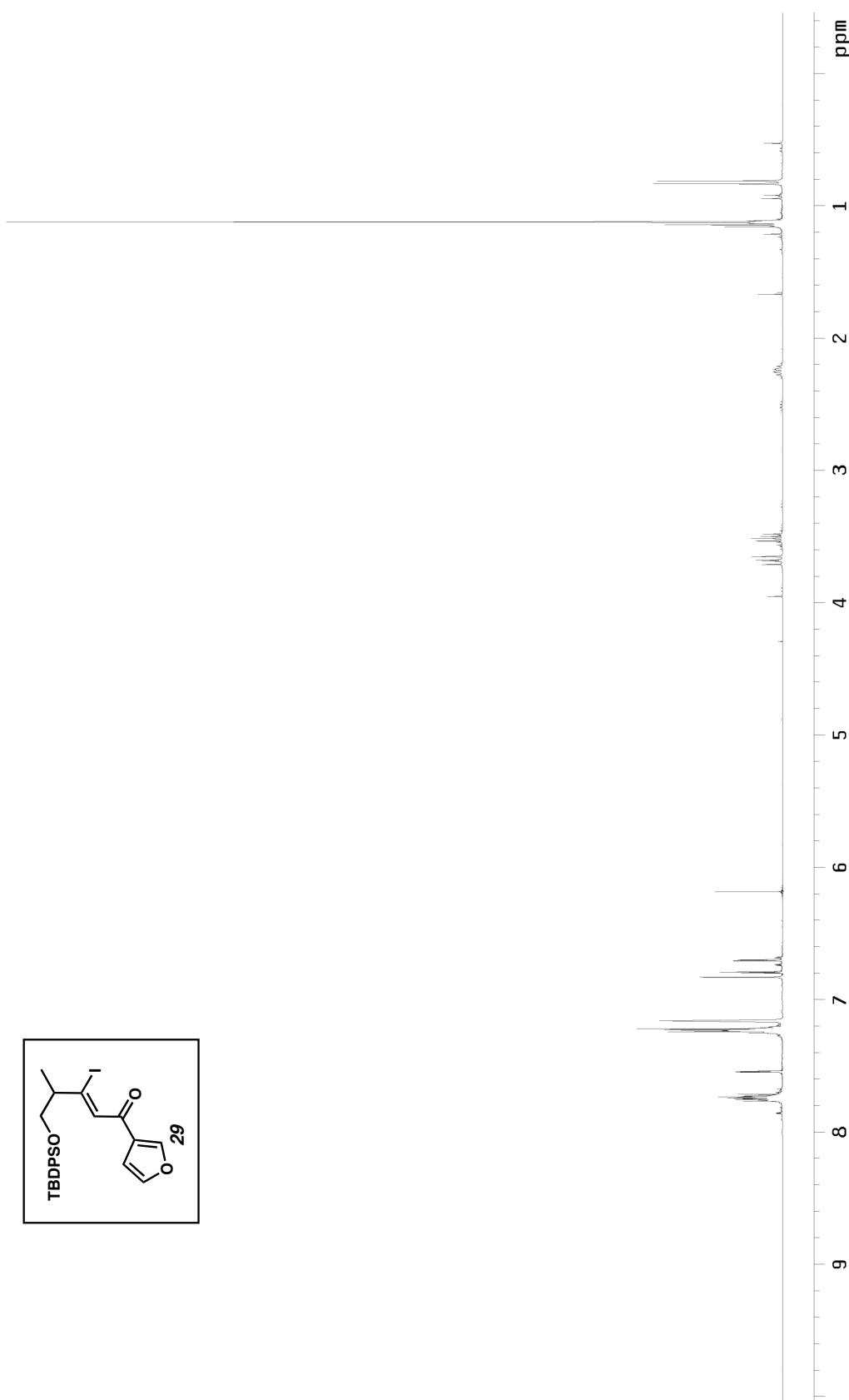


Figure A55  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound 29.

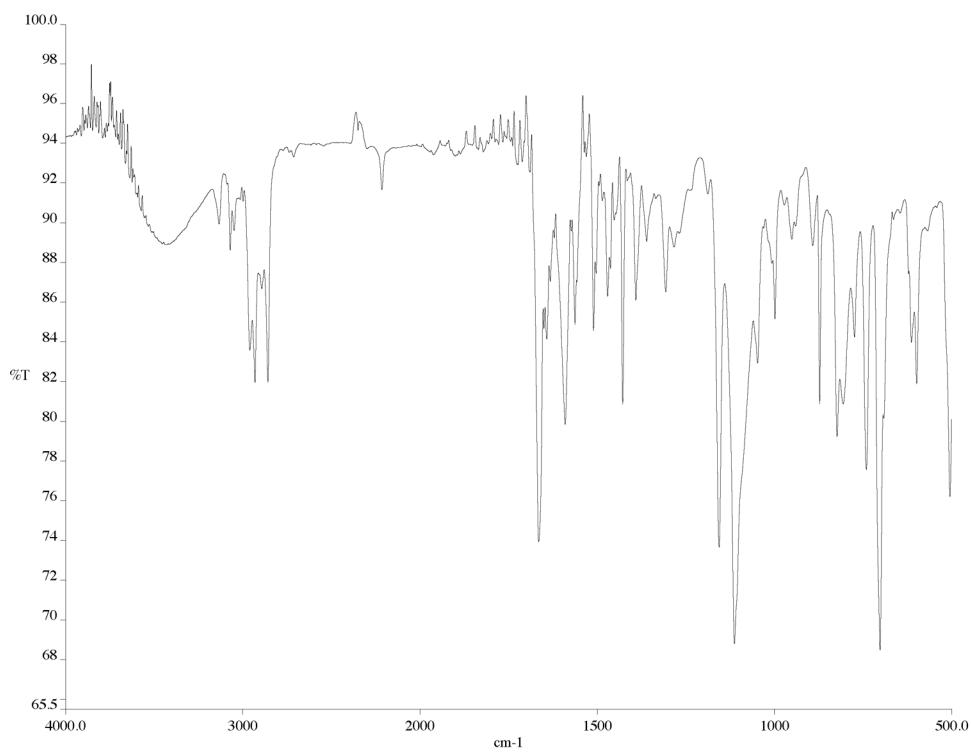


Figure A56 Infrared spectrum (thin film/NaCl) of compound **29**.

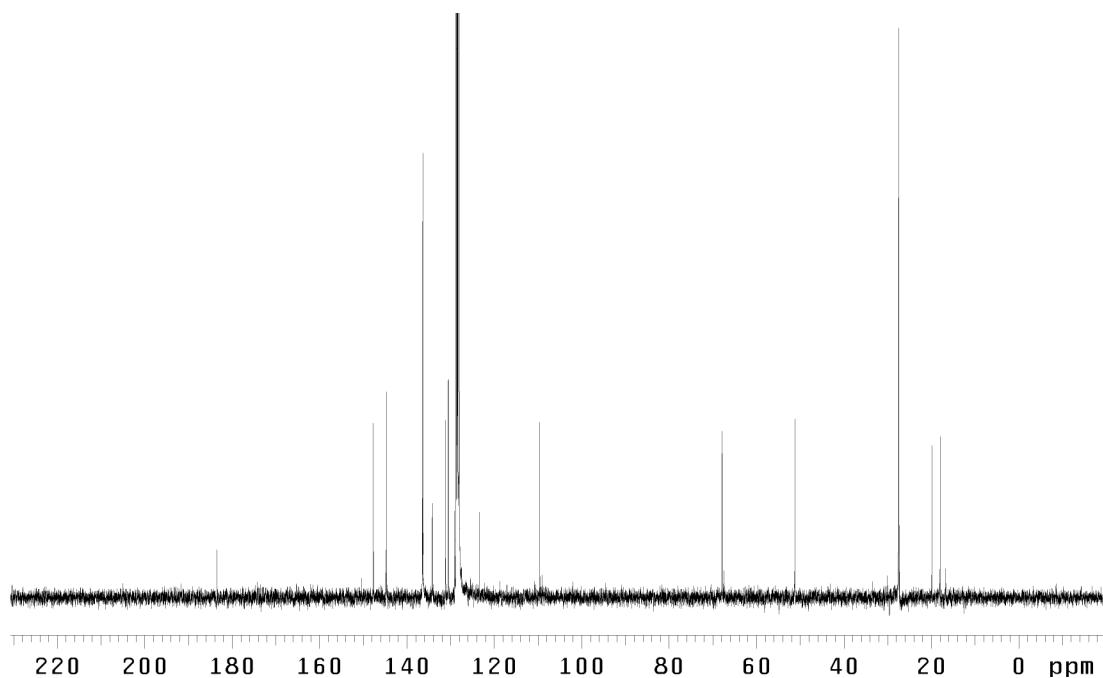


Figure A57 <sup>13</sup>C NMR (75 MHz, C<sub>6</sub>D<sub>6</sub>) of compound **29**.

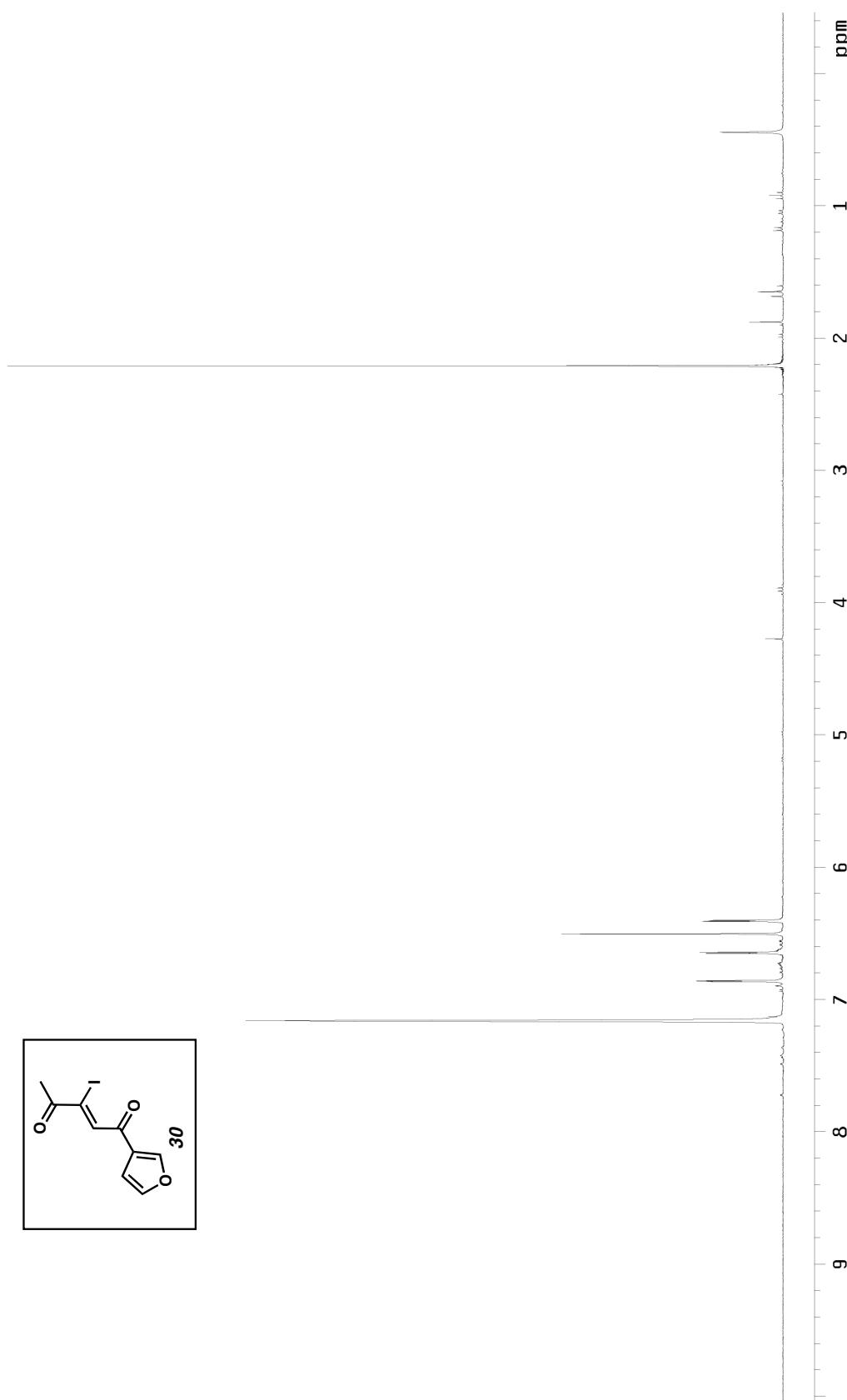


Figure A58  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound 30.

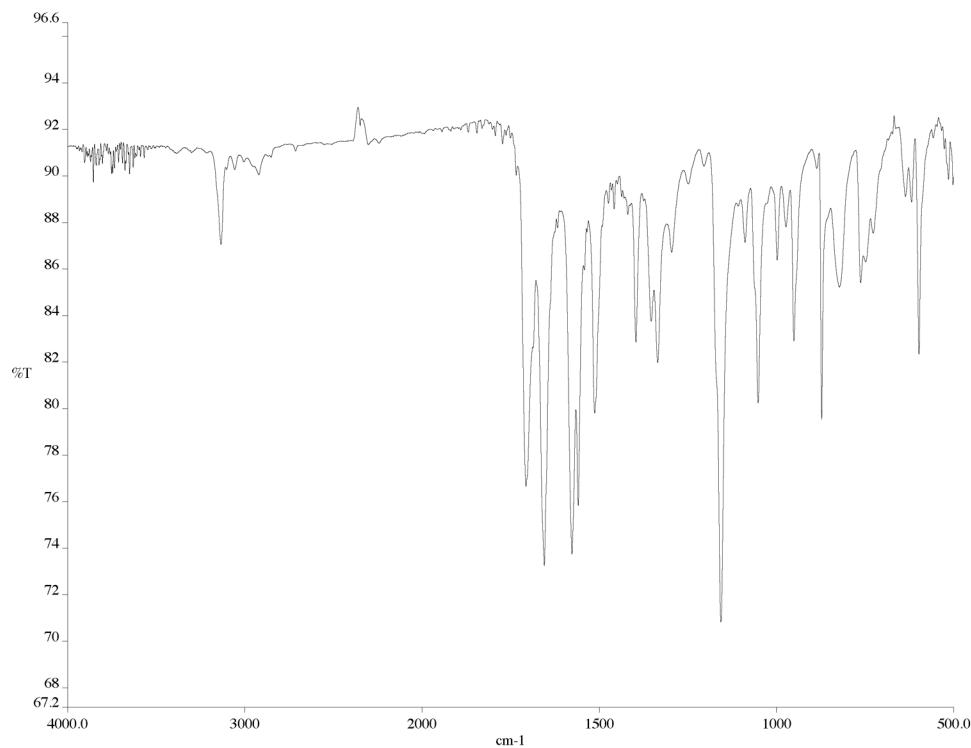


Figure A59 Infrared spectrum (thin film/NaCl) of compound **30**.

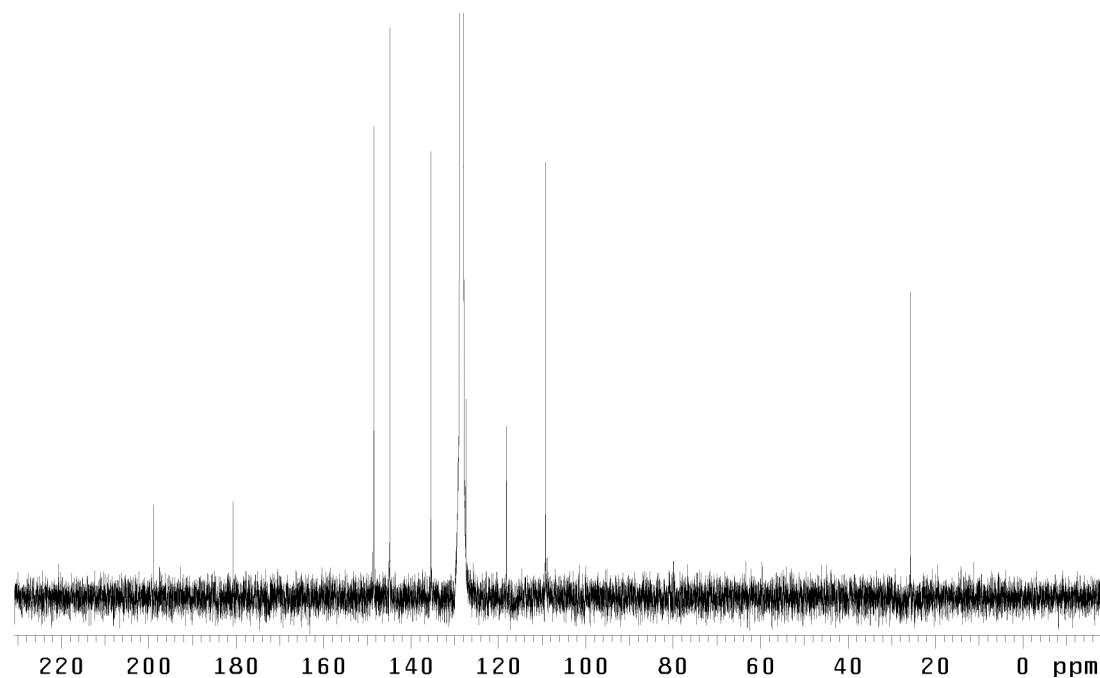


Figure A60  $^{13}\text{C}$  NMR (75 MHz,  $\text{C}_6\text{D}_6$ ) of compound **30**.

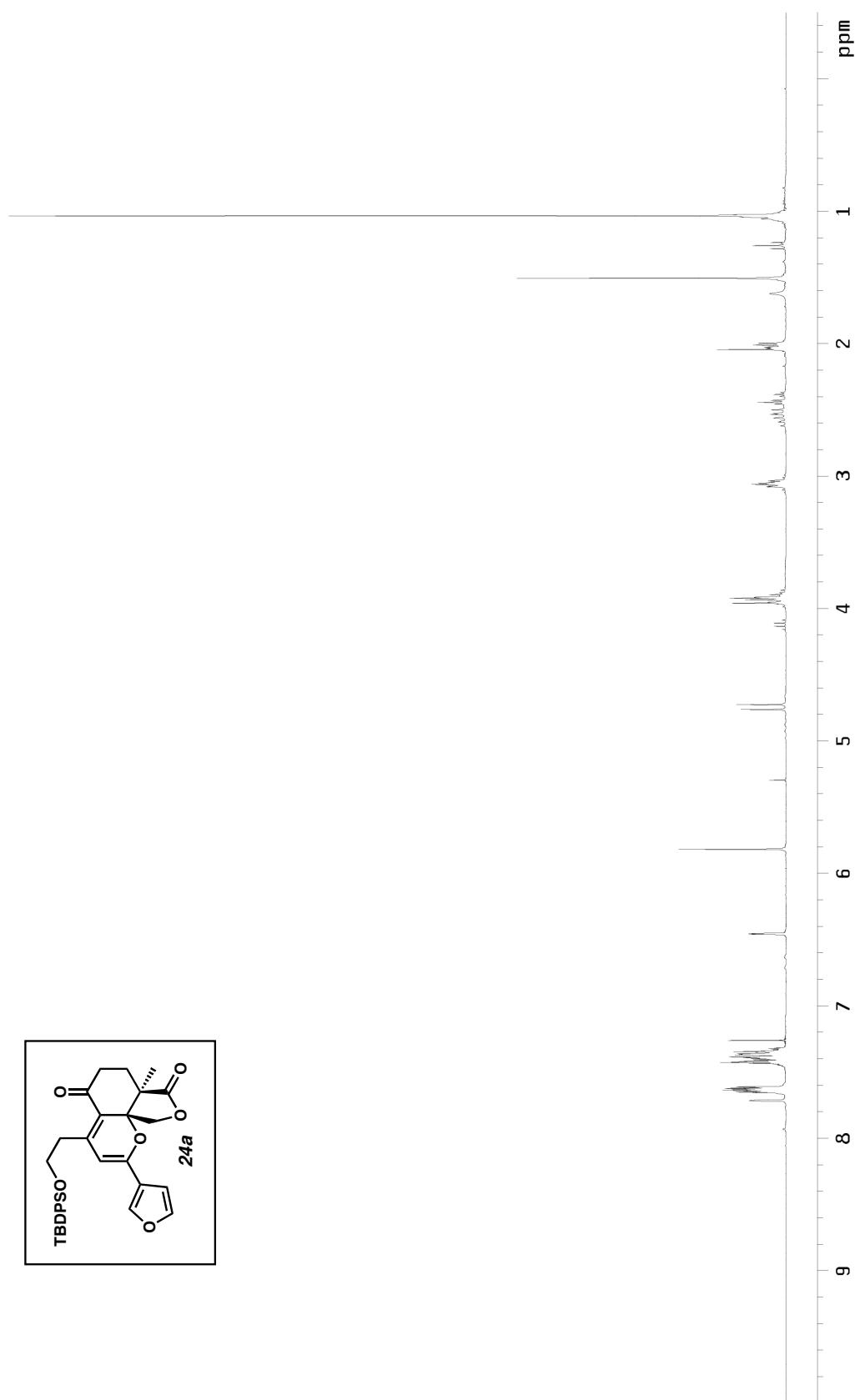


Figure A61  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 24a.

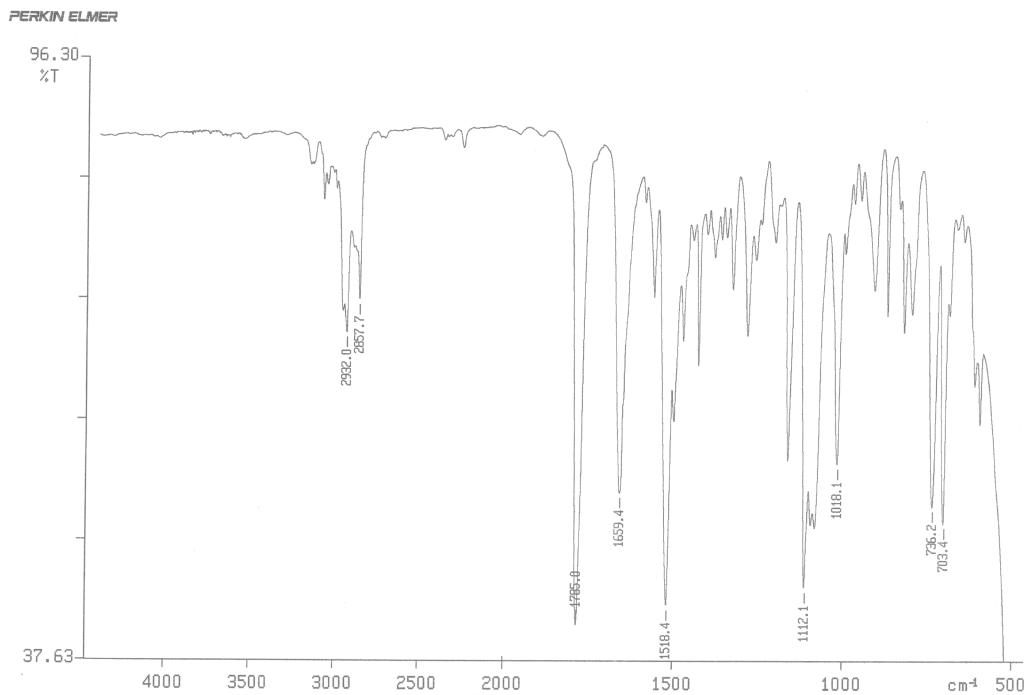


Figure A62 Infrared spectrum (thin film/NaCl) of compound **24a**.

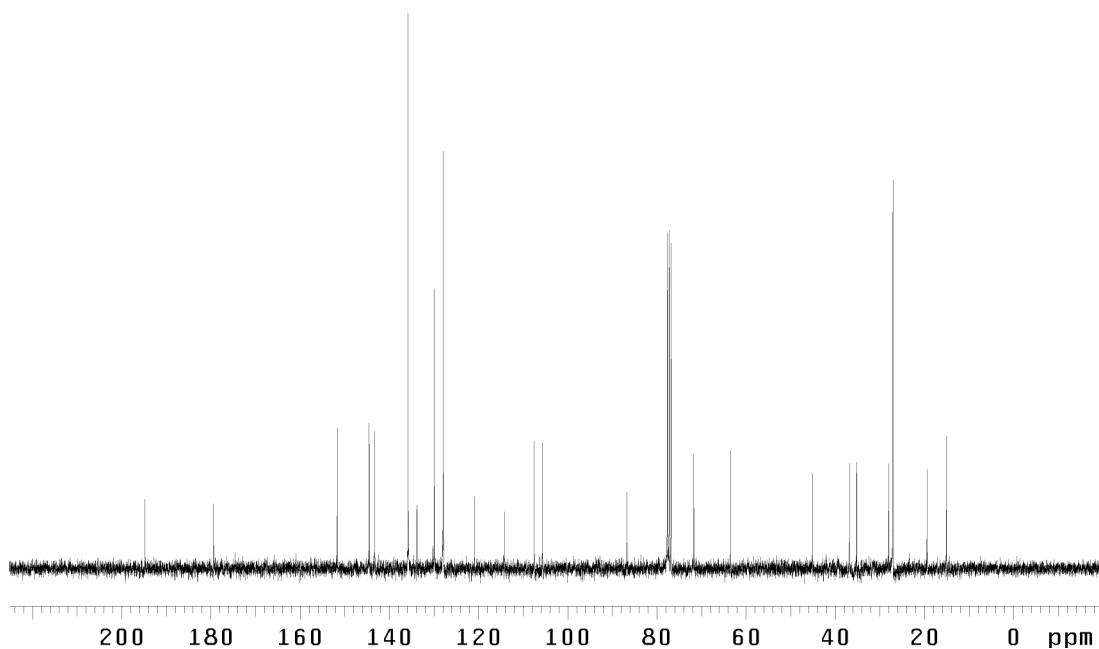


Figure A63  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **24a**.

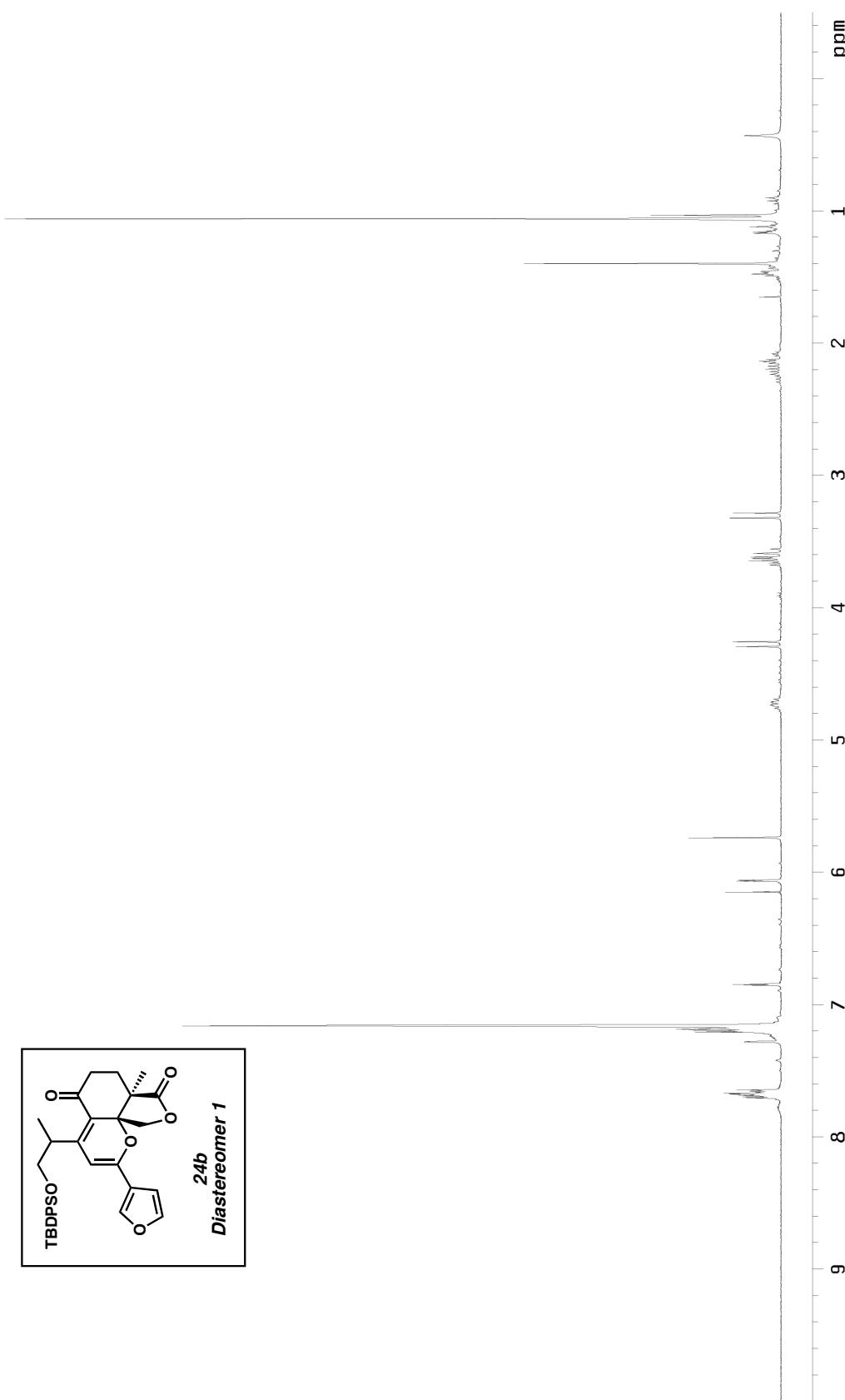


Figure A64  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound **24b(1)**.

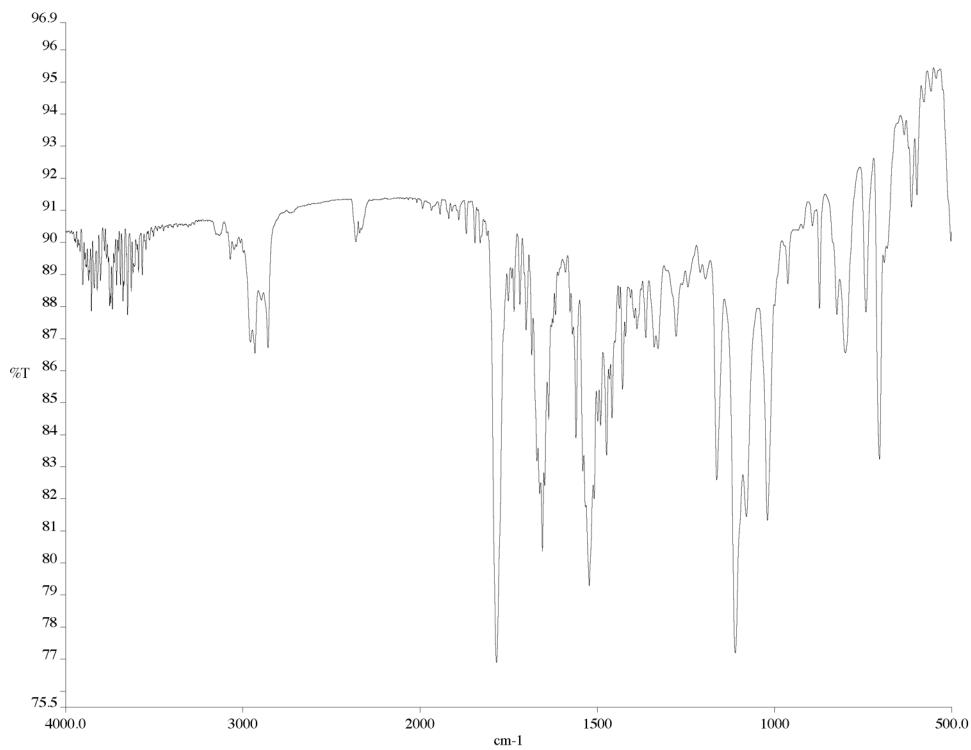


Figure A65 Infrared spectrum (thinfilm/NaCl) of compound **24b(1)**.

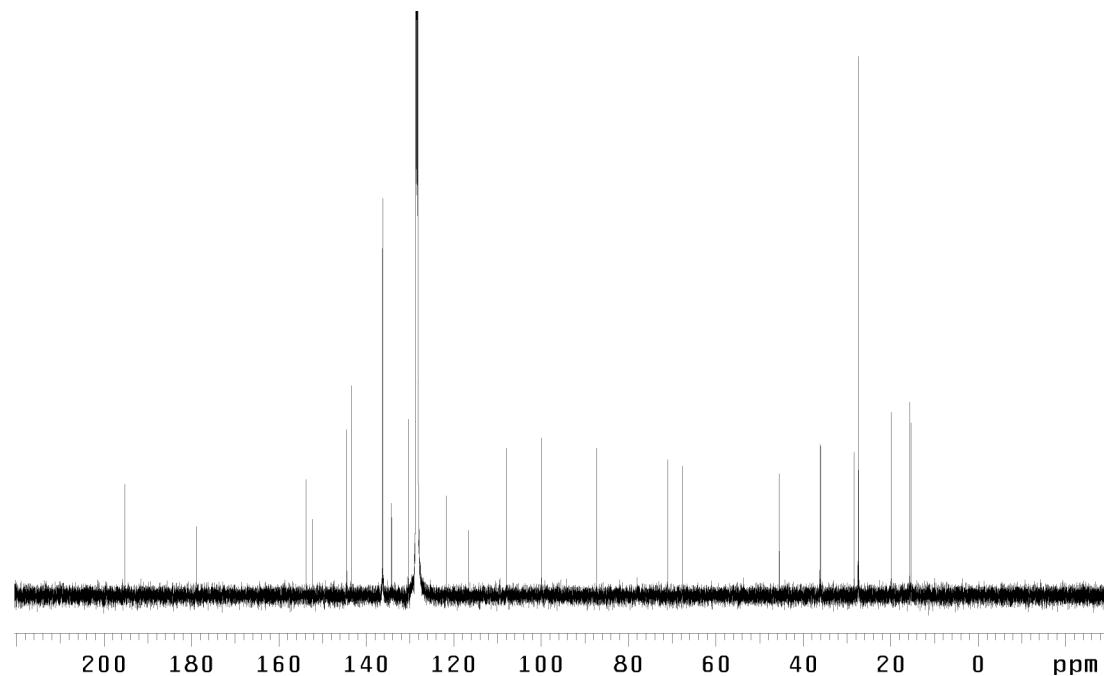


Figure A66  $^{13}\text{C}$  NMR (125 MHz,  $\text{C}_6\text{D}_6$ ) of compound **24b(1)**.

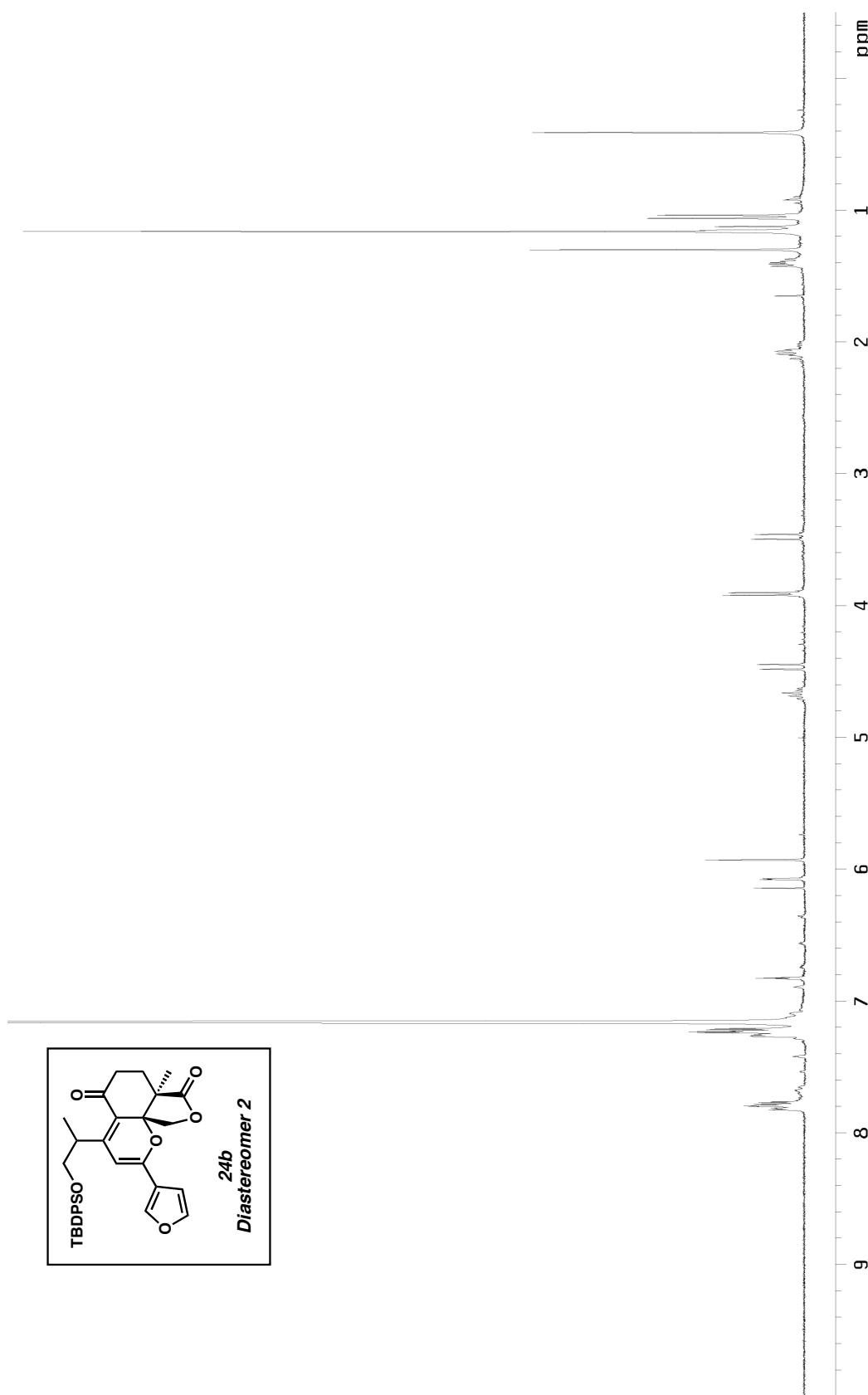


Figure A67  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound **24b(2)**.

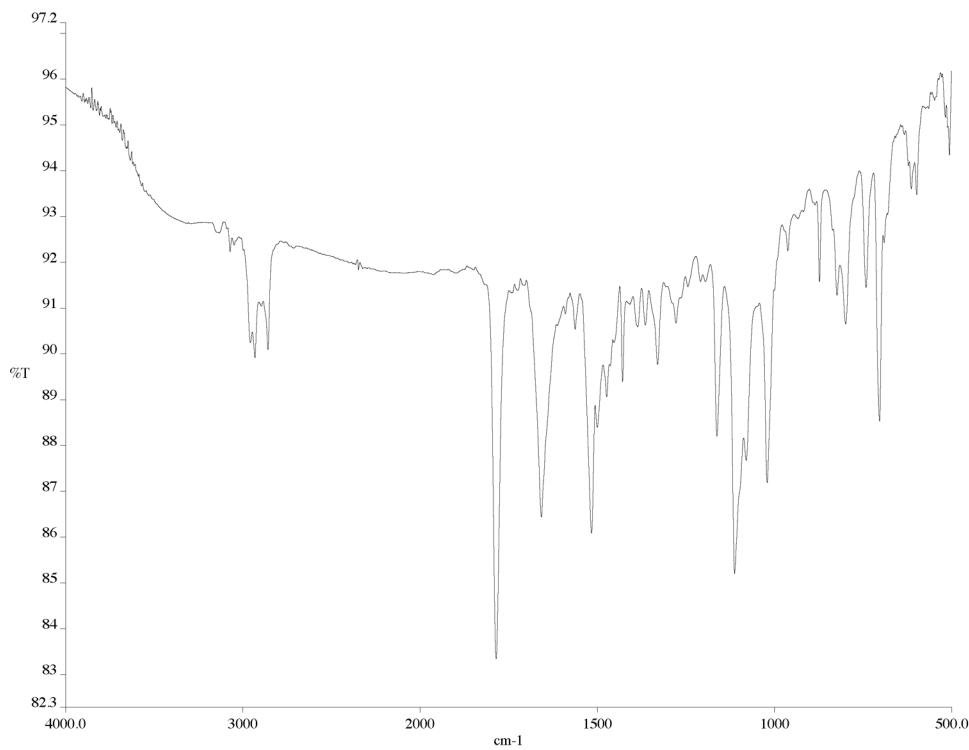


Figure A68 Infrared spectrum (thinfilm/NaCl) of compound **24b(2)**.

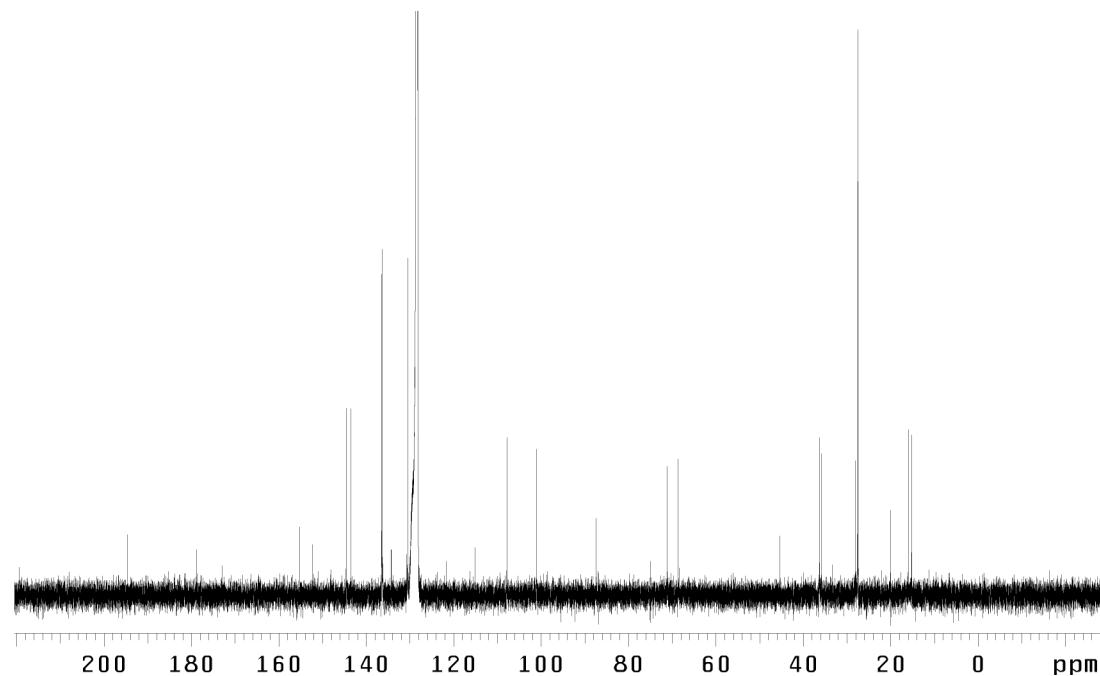


Figure A69  $^{13}\text{C}$  NMR (125 MHz,  $\text{C}_6\text{D}_6$ ) of compound **24b(2)**.

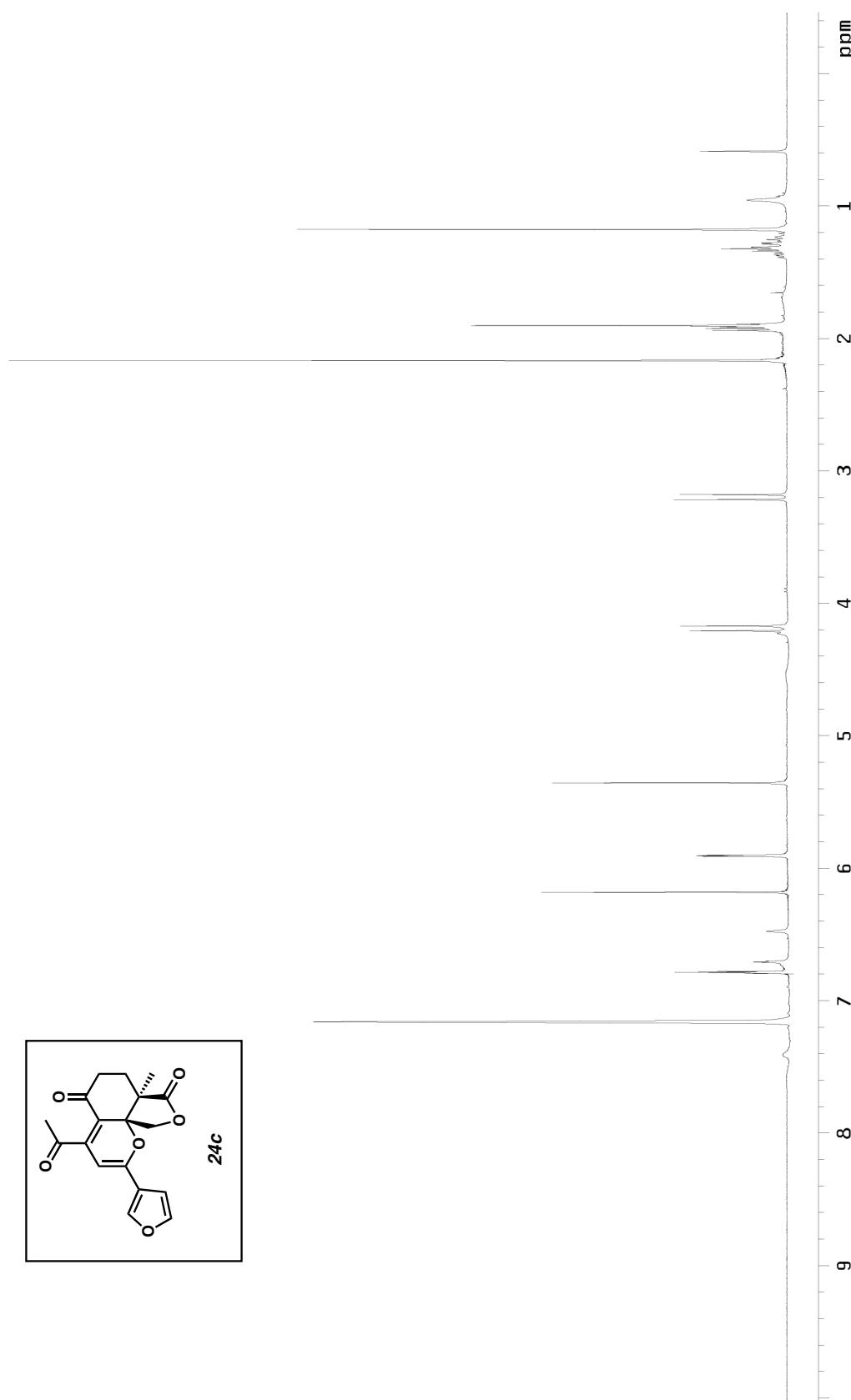


Figure A70  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound **24c**.

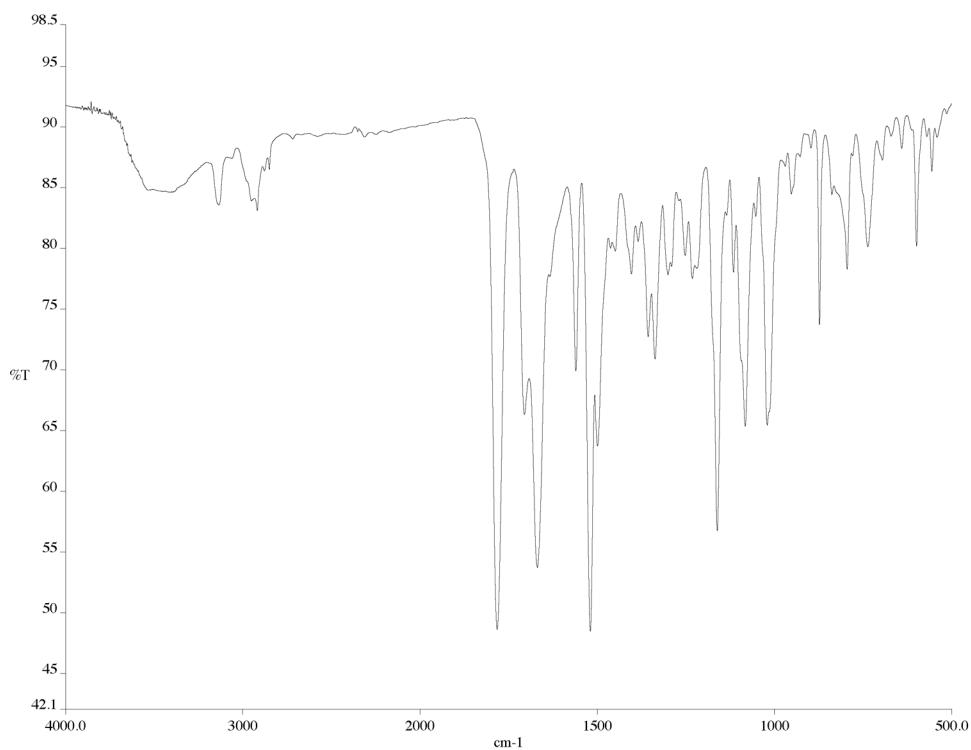


Figure A71 Infrared spectrum (thin film/NaCl) of compound **24c**.

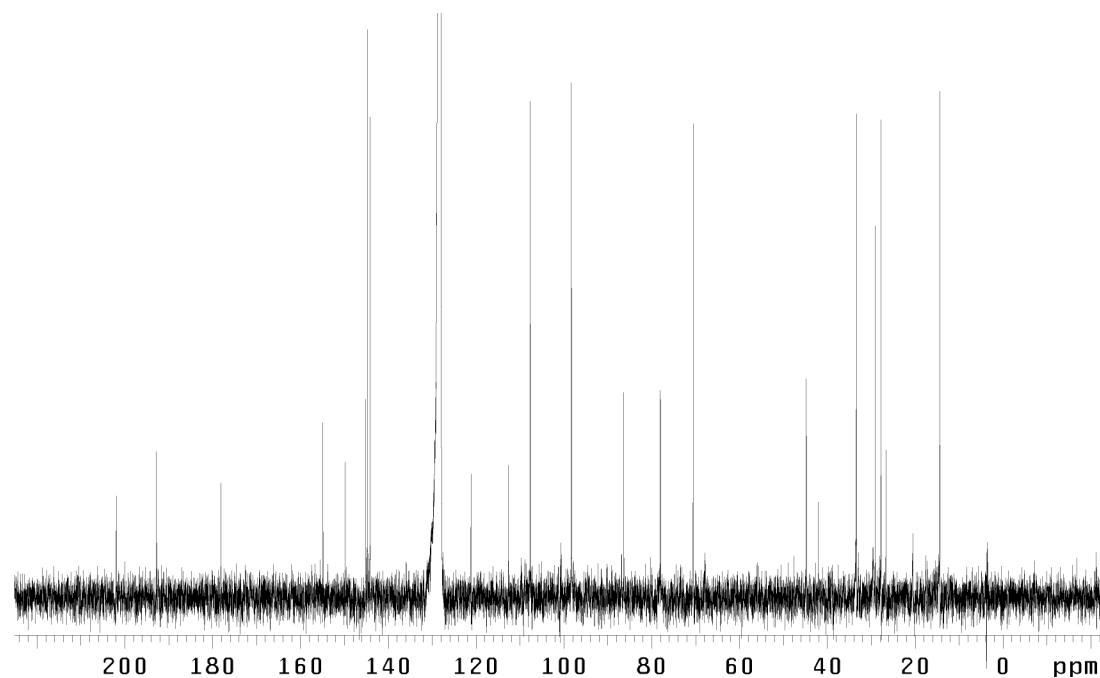


Figure A72  $^{13}\text{C}$  NMR (75 MHz,  $\text{C}_6\text{D}_6$ ) of compound **24c**.

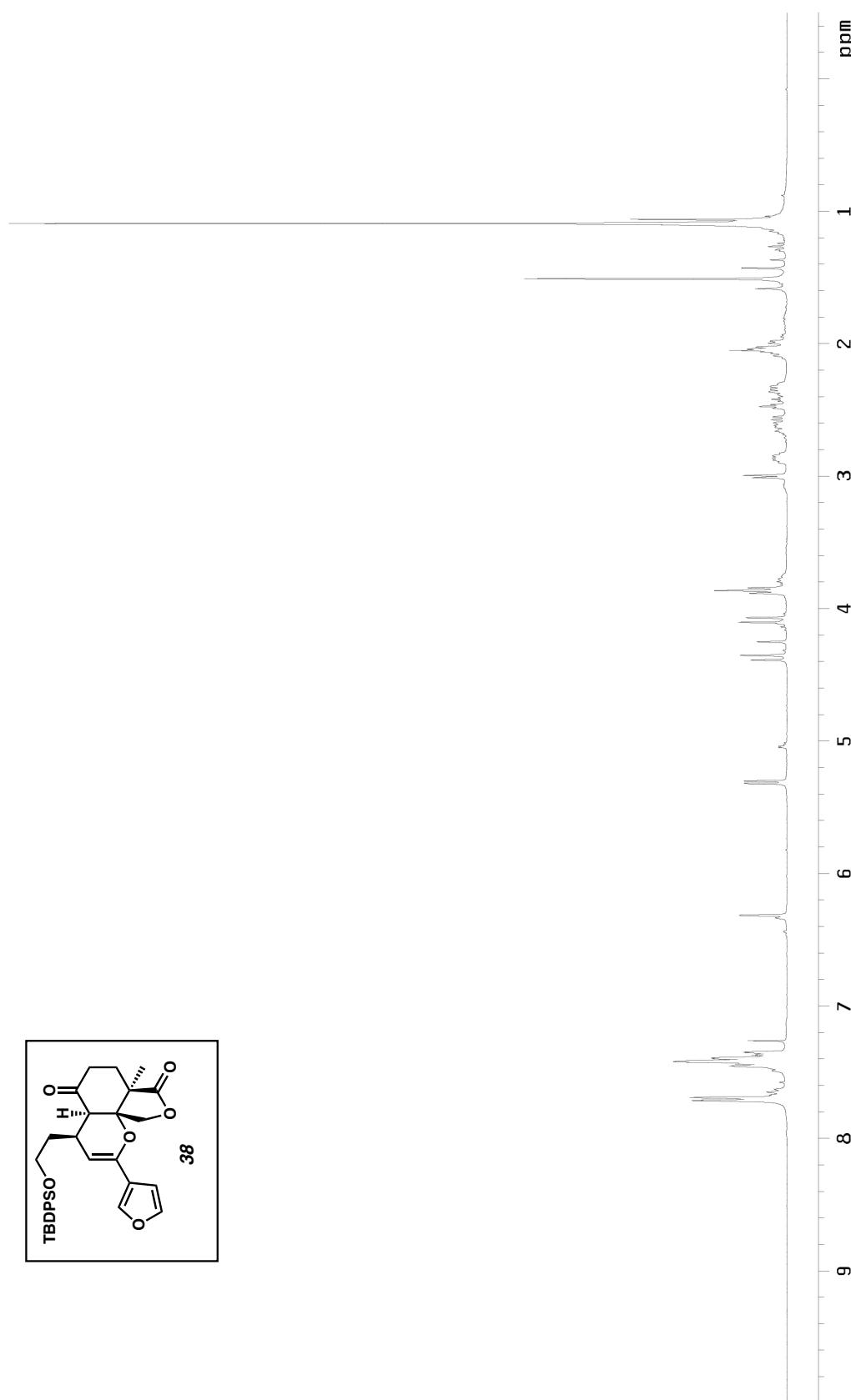


Figure A73  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 38.

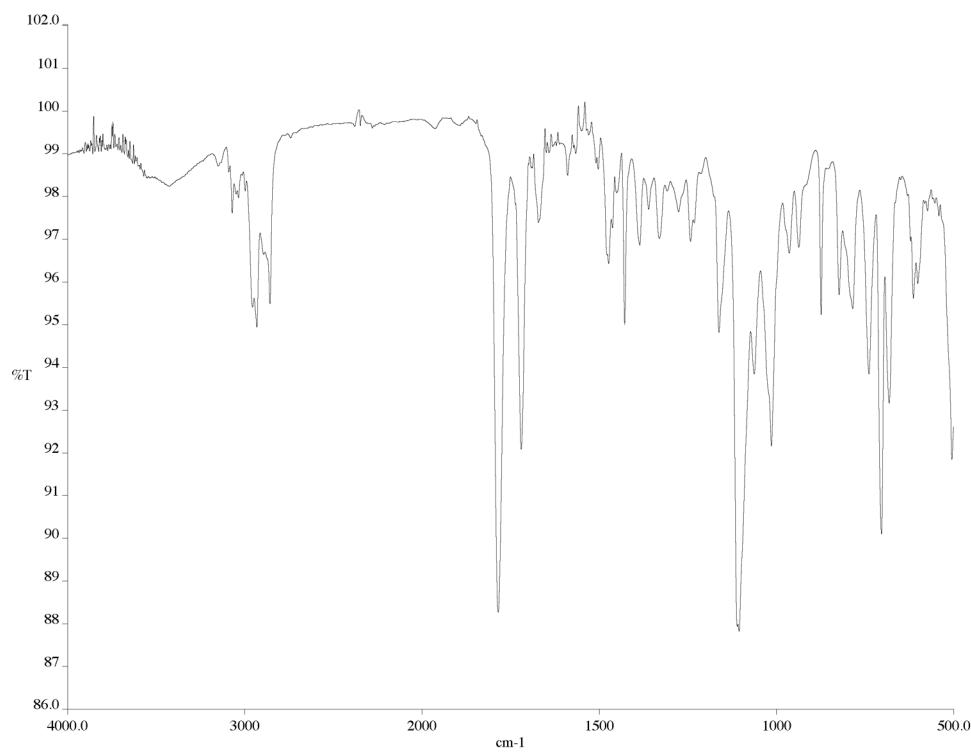


Figure A74 Infrared spectrum (thin film/NaCl) of compound **38**.

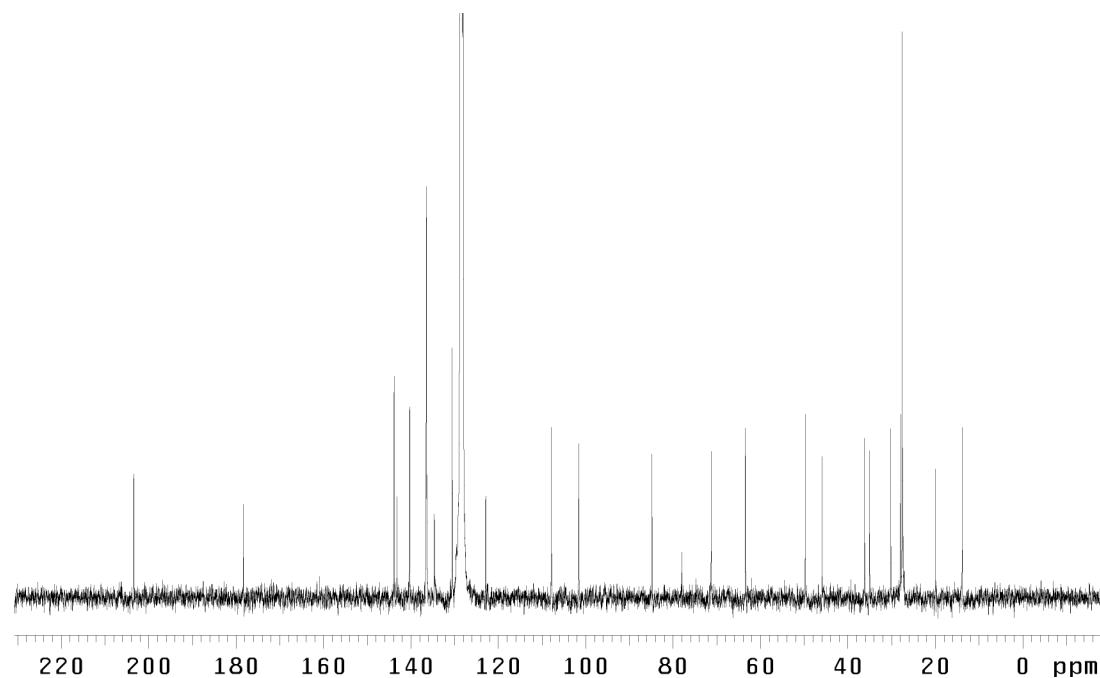


Figure A75 <sup>13</sup>C NMR (75 MHz, C<sub>6</sub>D<sub>6</sub>) of compound **38**.

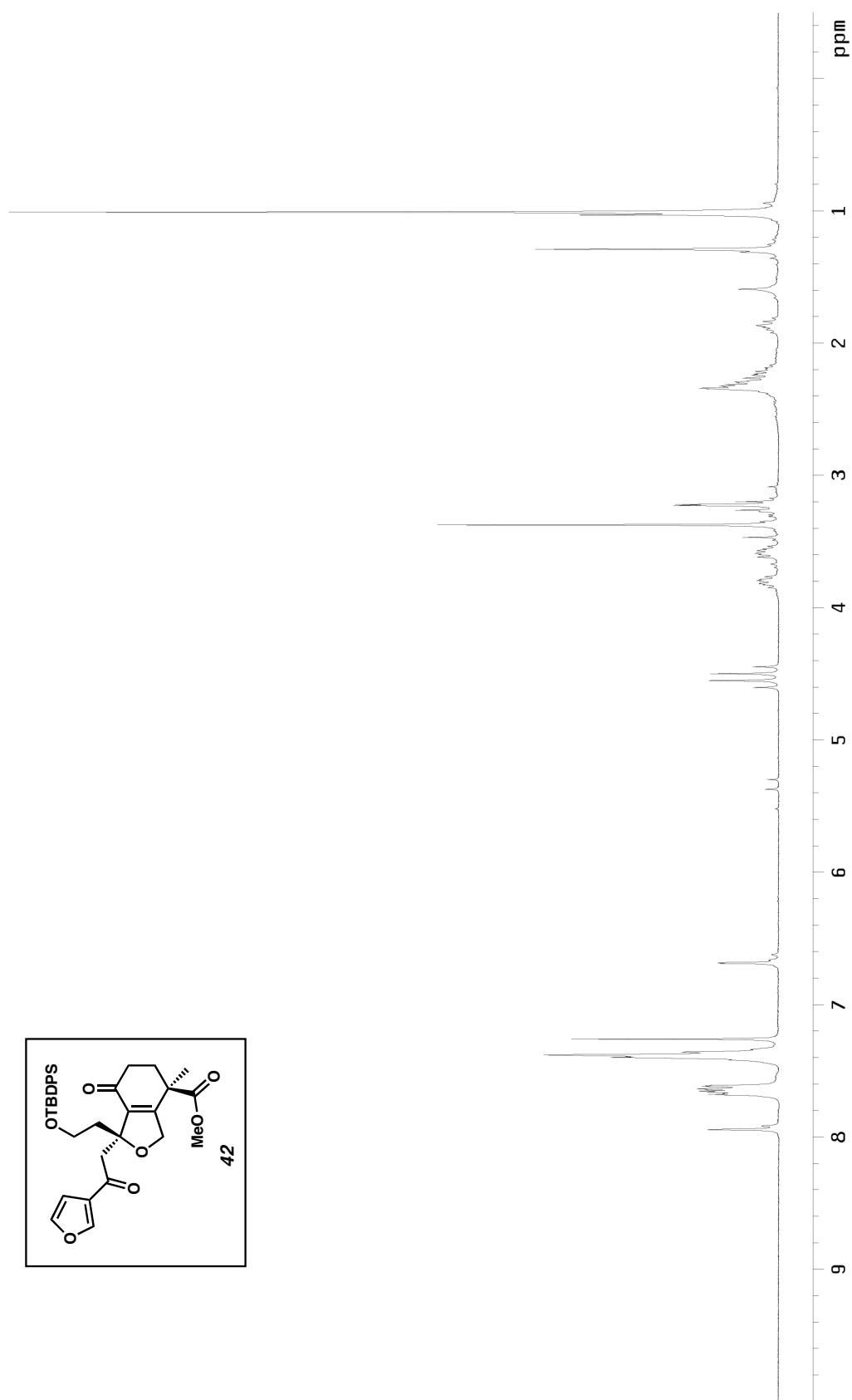


Figure A76  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of compound 42.

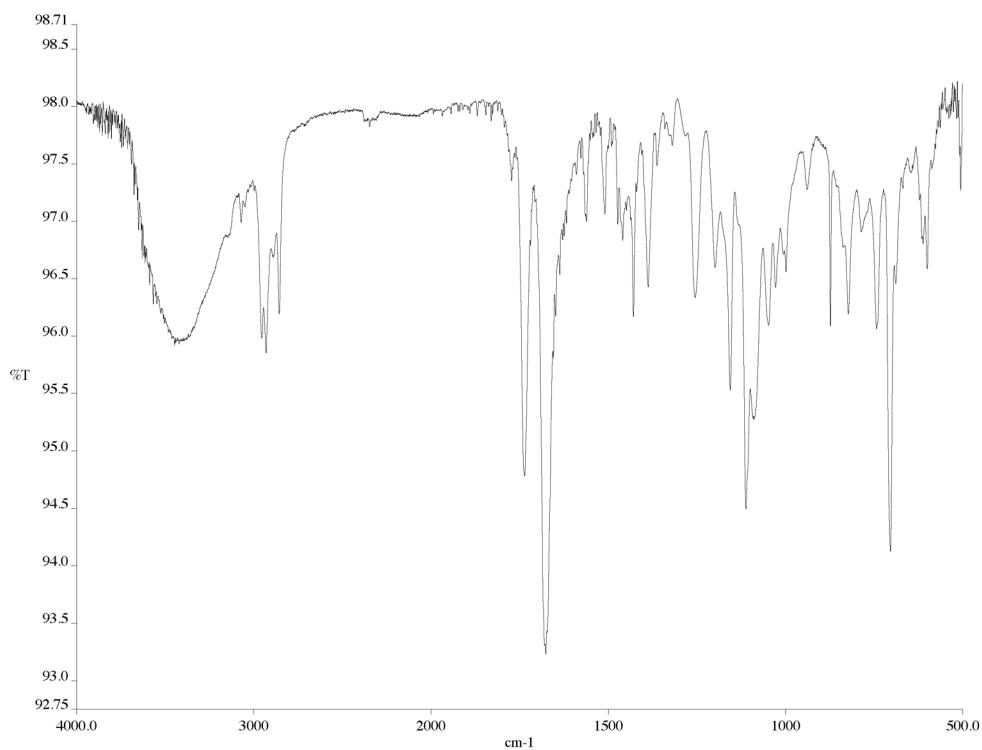


Figure A77 Infrared spectrum (thin film/NaCl) of compound **42**.

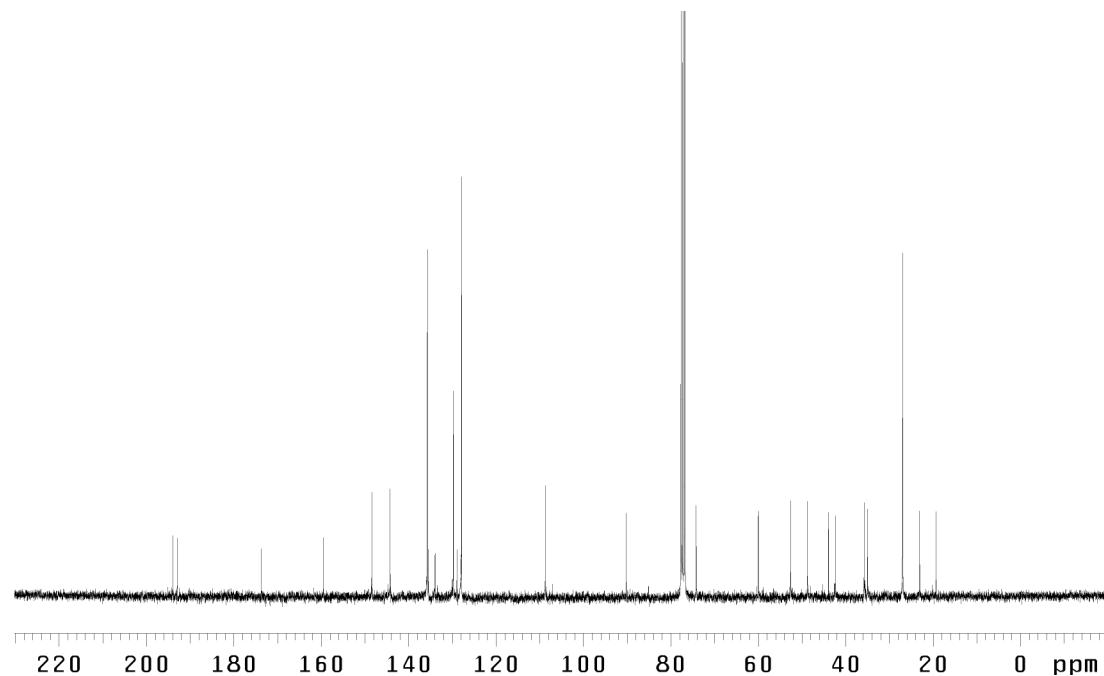


Figure A78 <sup>13</sup>C NMR (125 MHz, CDCl<sub>3</sub>) of compound **42**.

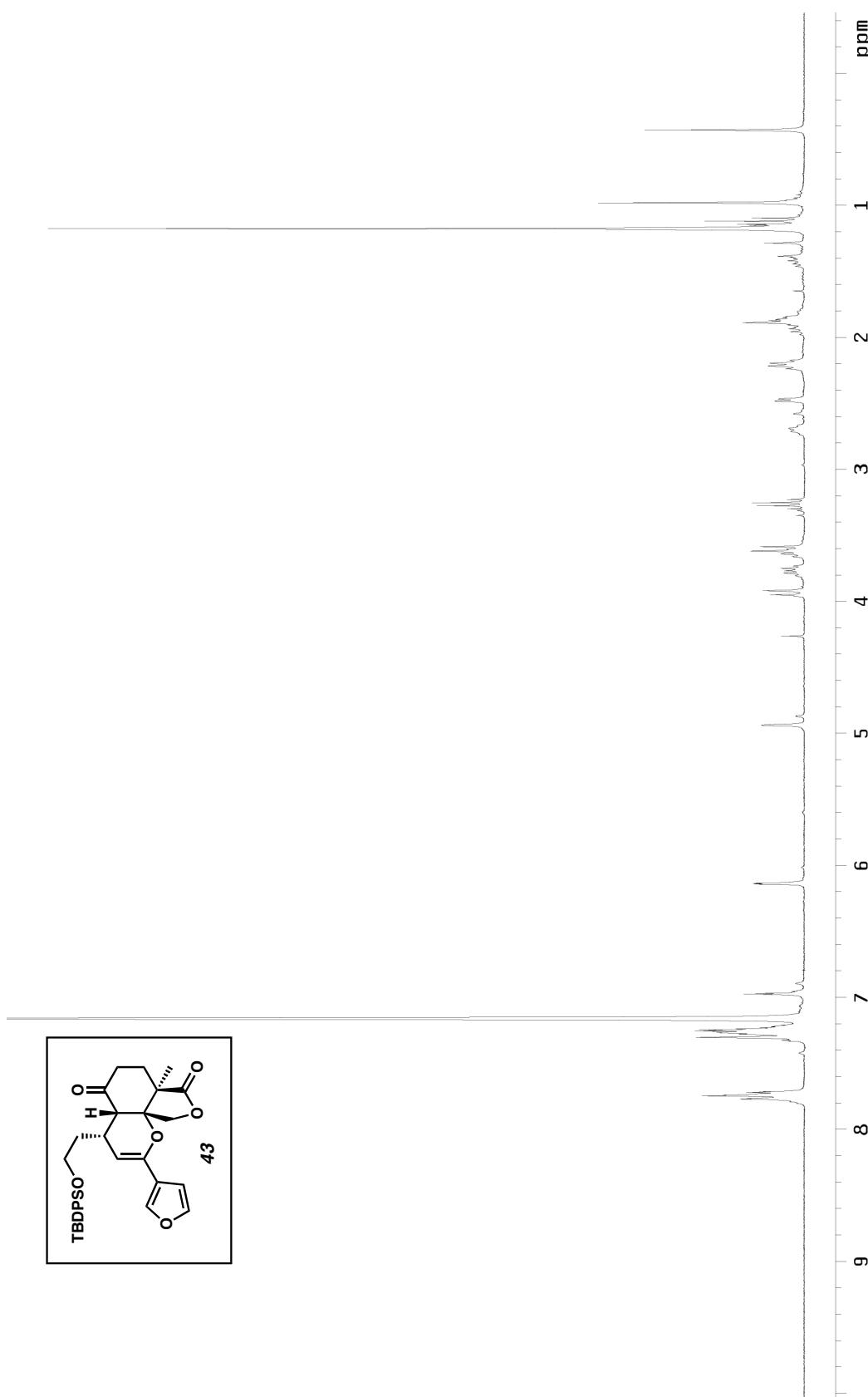


Figure A79  $^1\text{H}$  NMR (300 MHz,  $\text{C}_6\text{D}_6$ ) of compound 43.

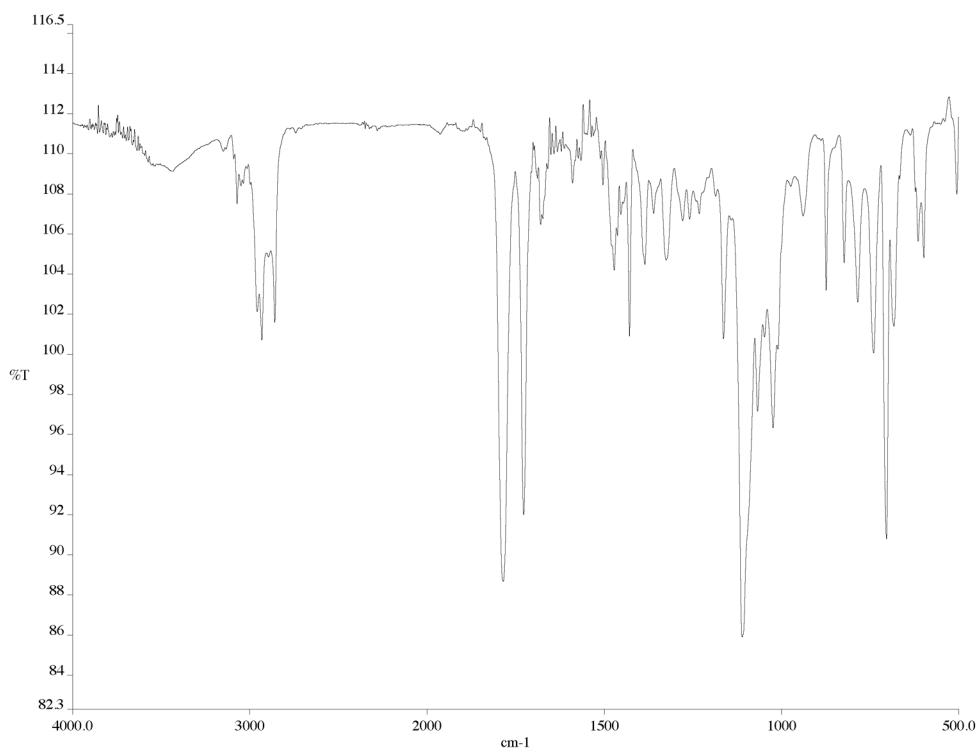


Figure A80 Infrared spectrum (film) of compound **43**.

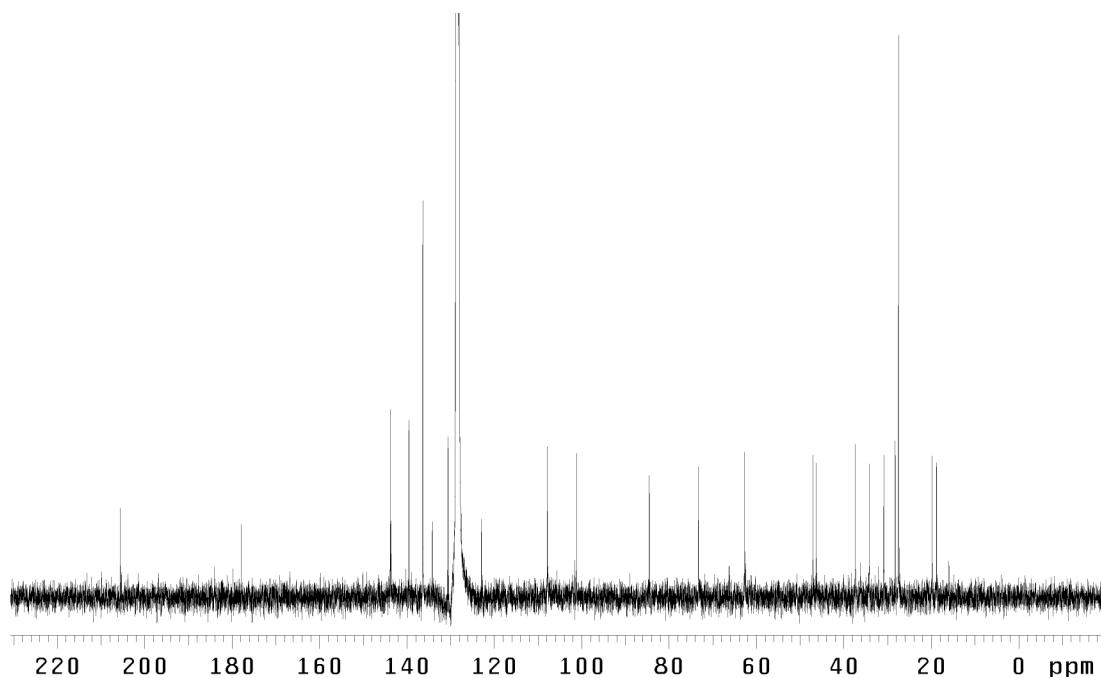


Figure A81 <sup>13</sup>C NMR (75 MHz, C<sub>6</sub>D<sub>6</sub>) of compound **43**.