

## Supporting Information

### Formation of tetrahydrofurans *via* a 5-*endo-tet* cyclization of aziridines – synthesis of (-)-pachastrissamine

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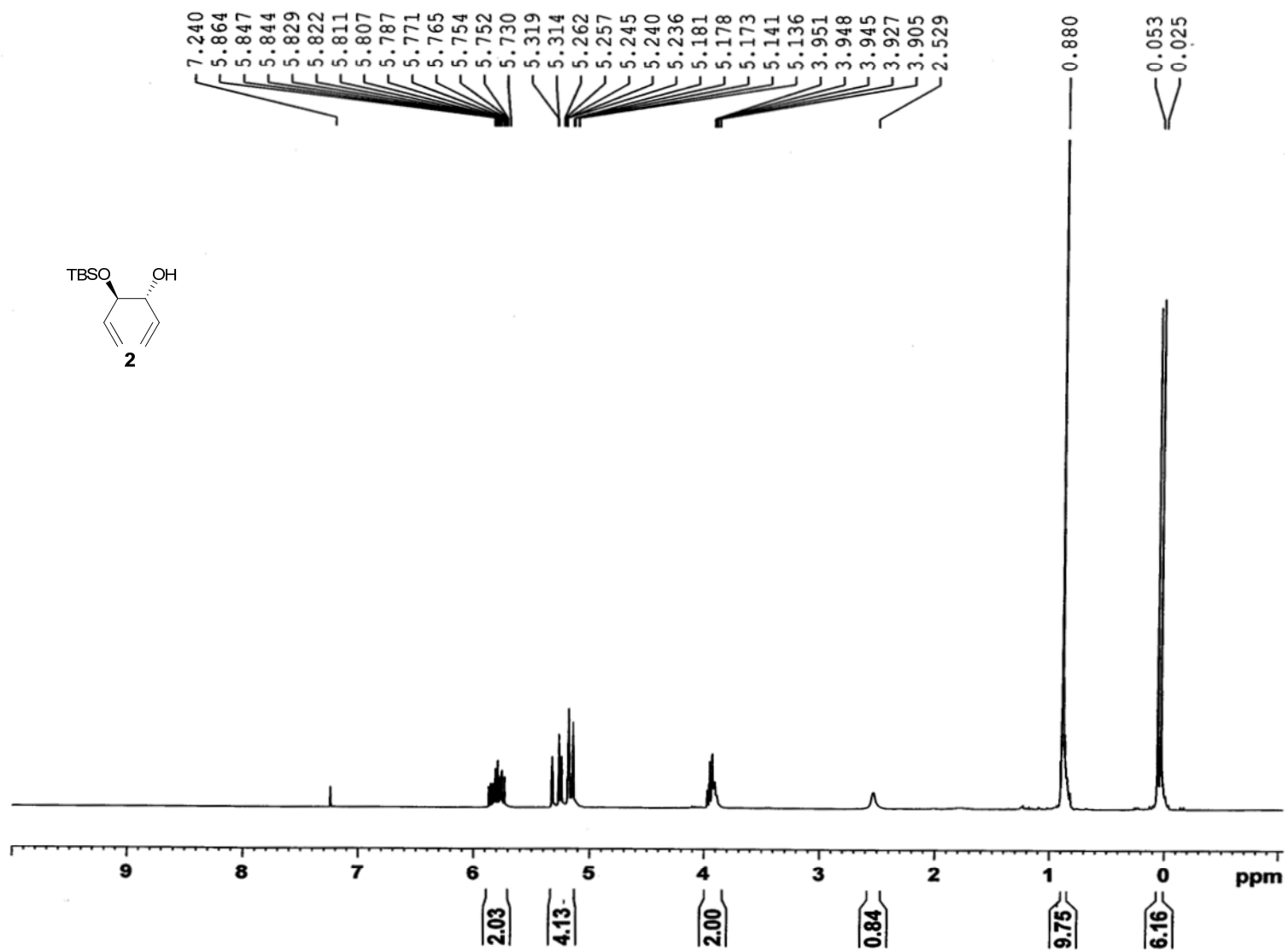
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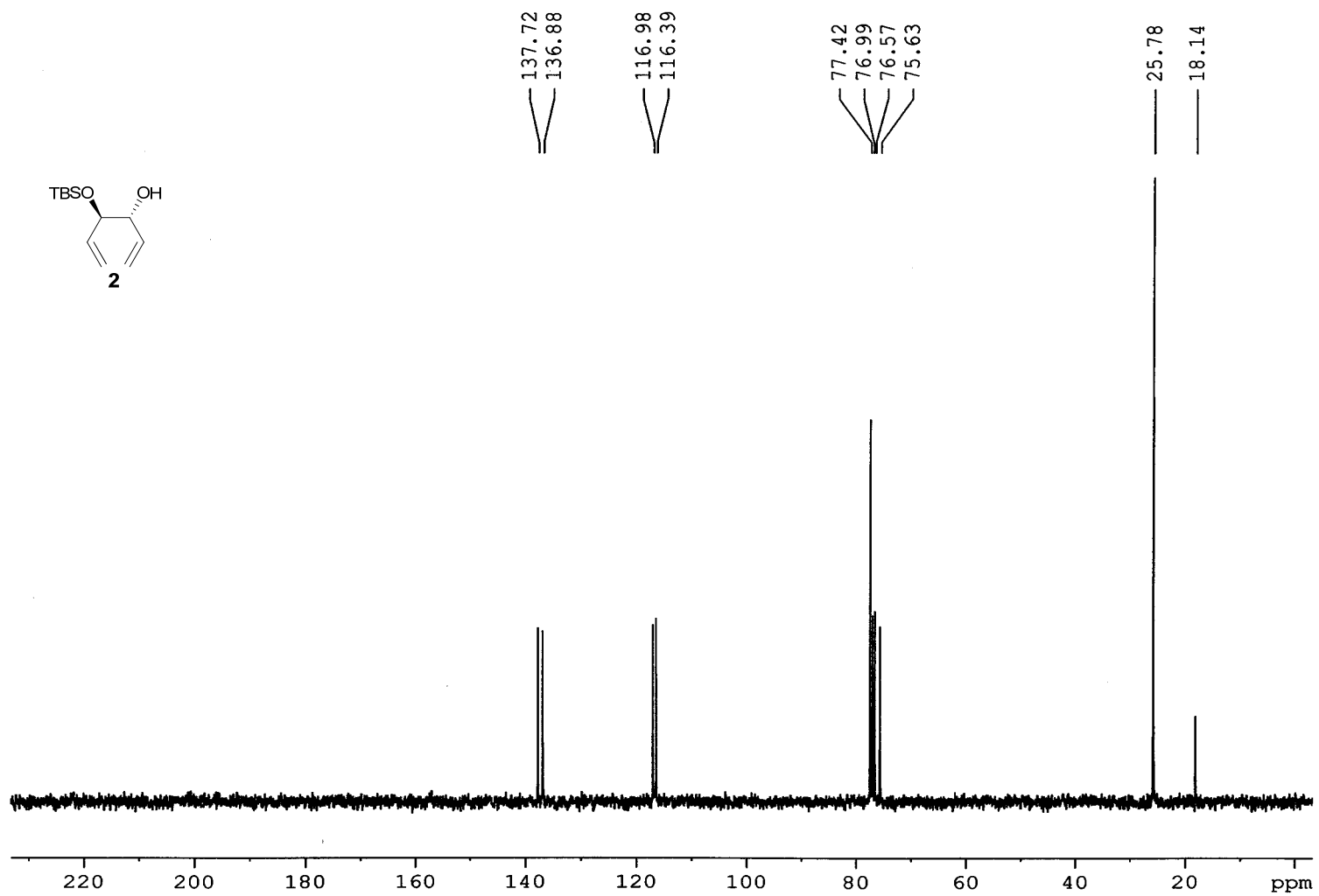
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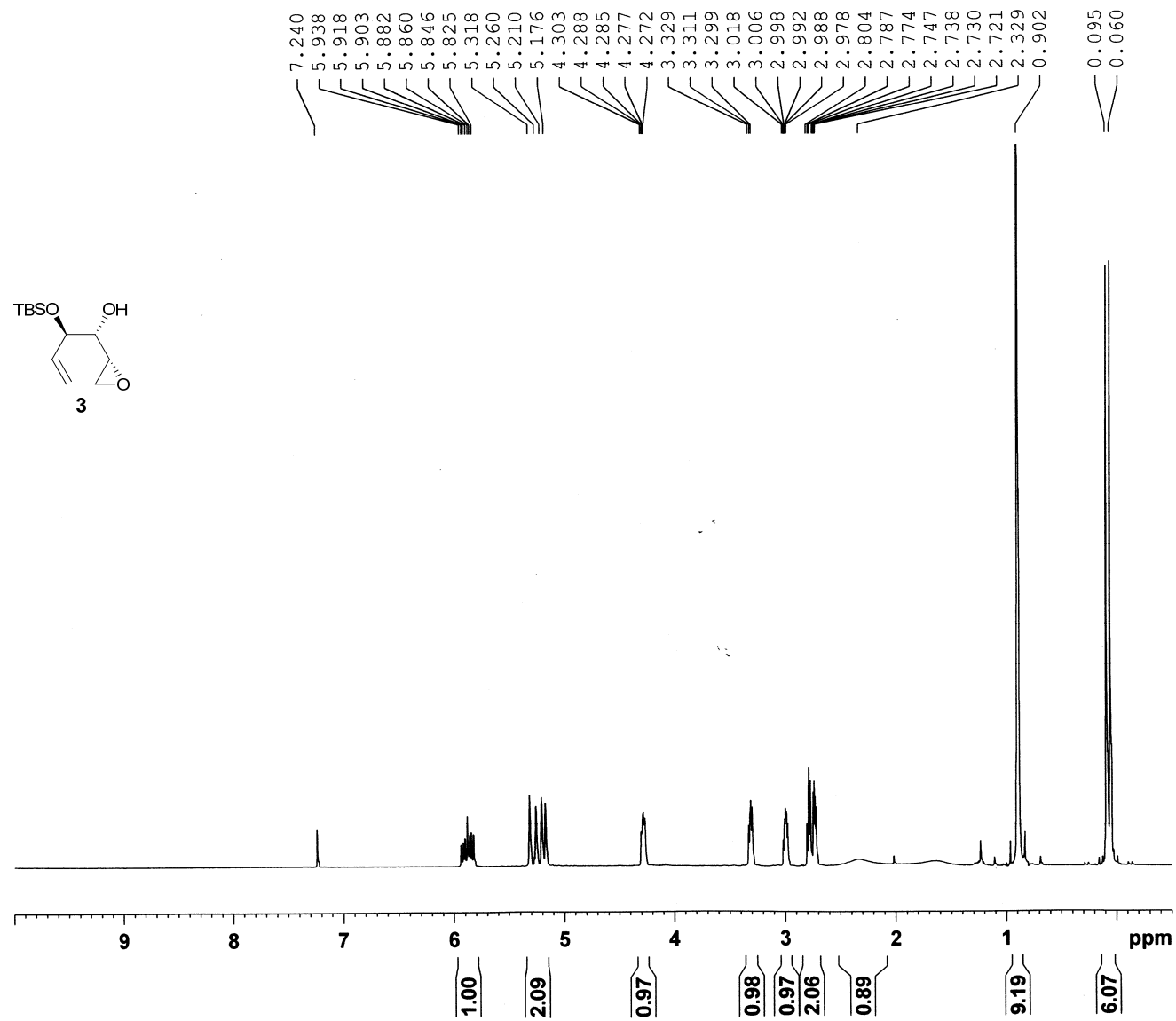
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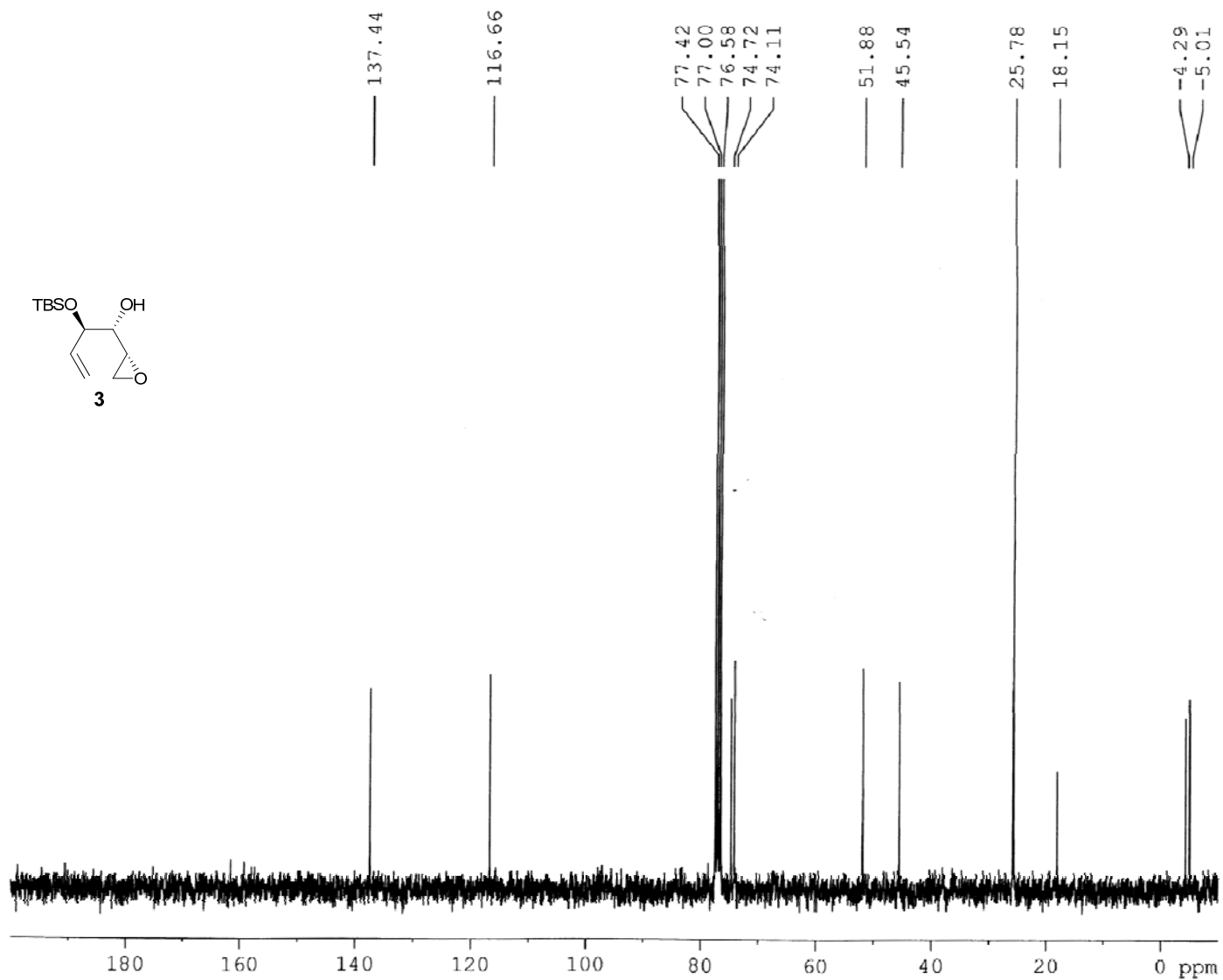
$^1\text{H NMR}$  (300 MHz  $\text{CDCl}_3$ ) of compound **2**



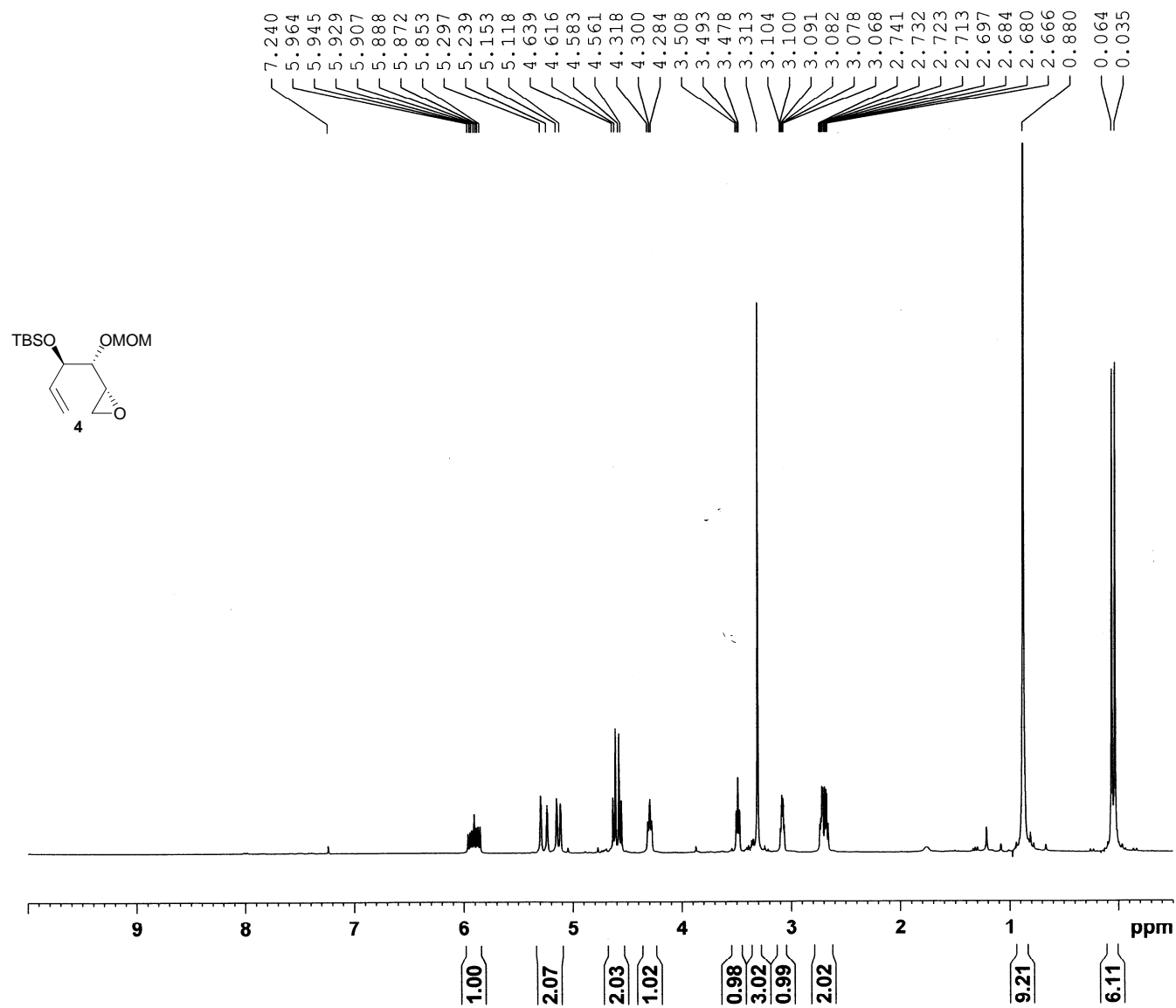
$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound **2**



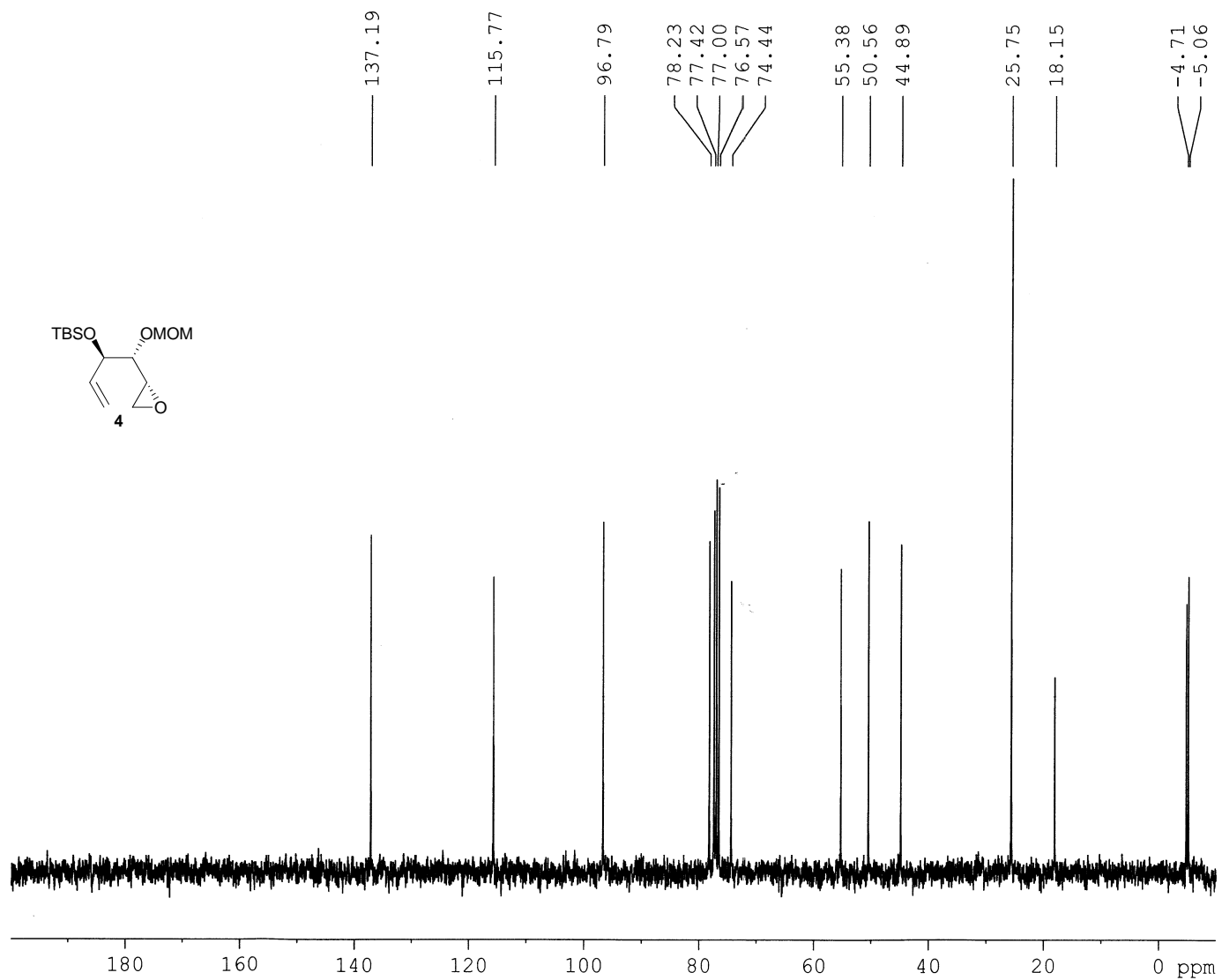
$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **3**



<sup>13</sup>C NMR (75 MHz CDCl<sub>3</sub>) of compound 3

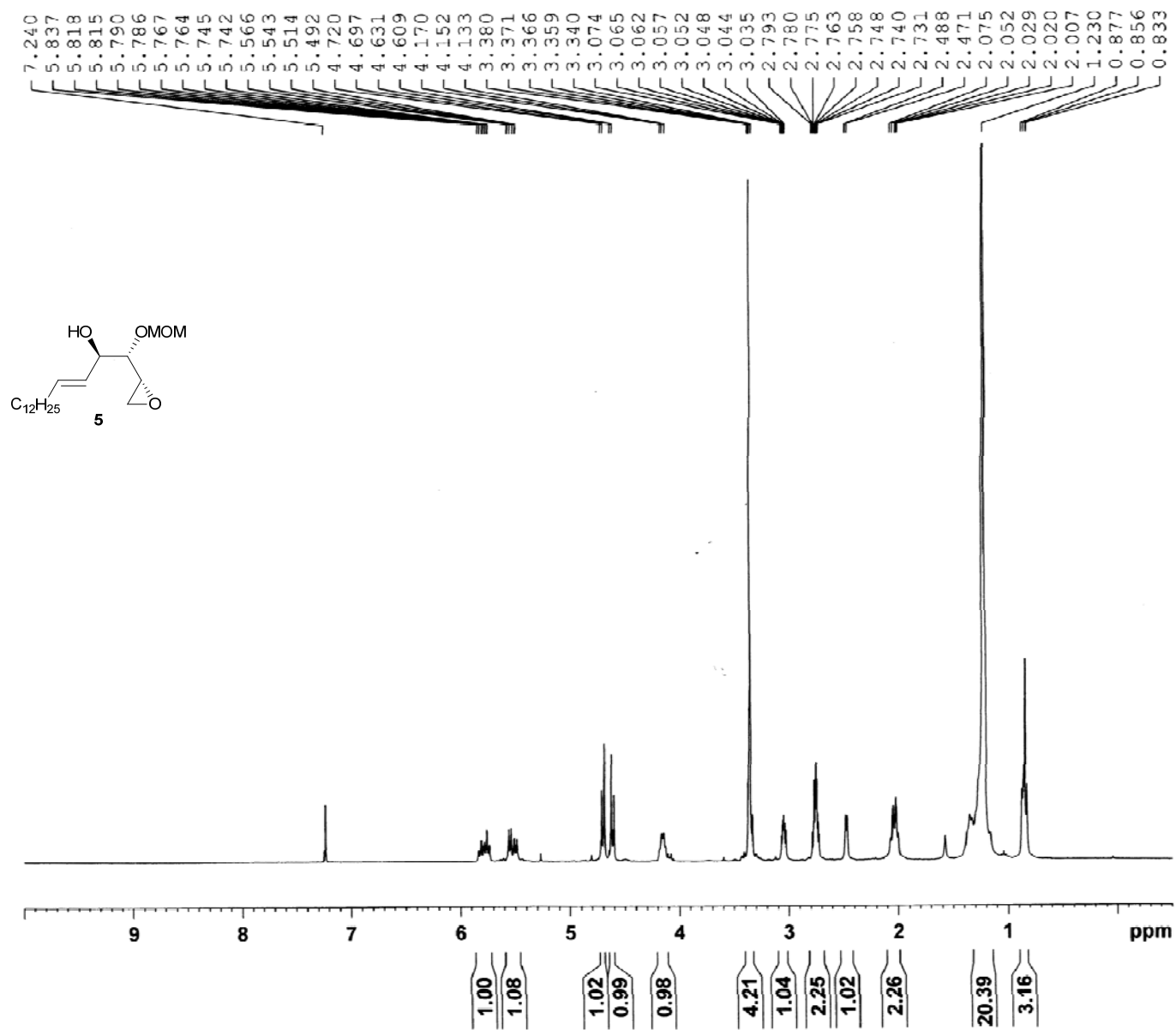


$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **4**

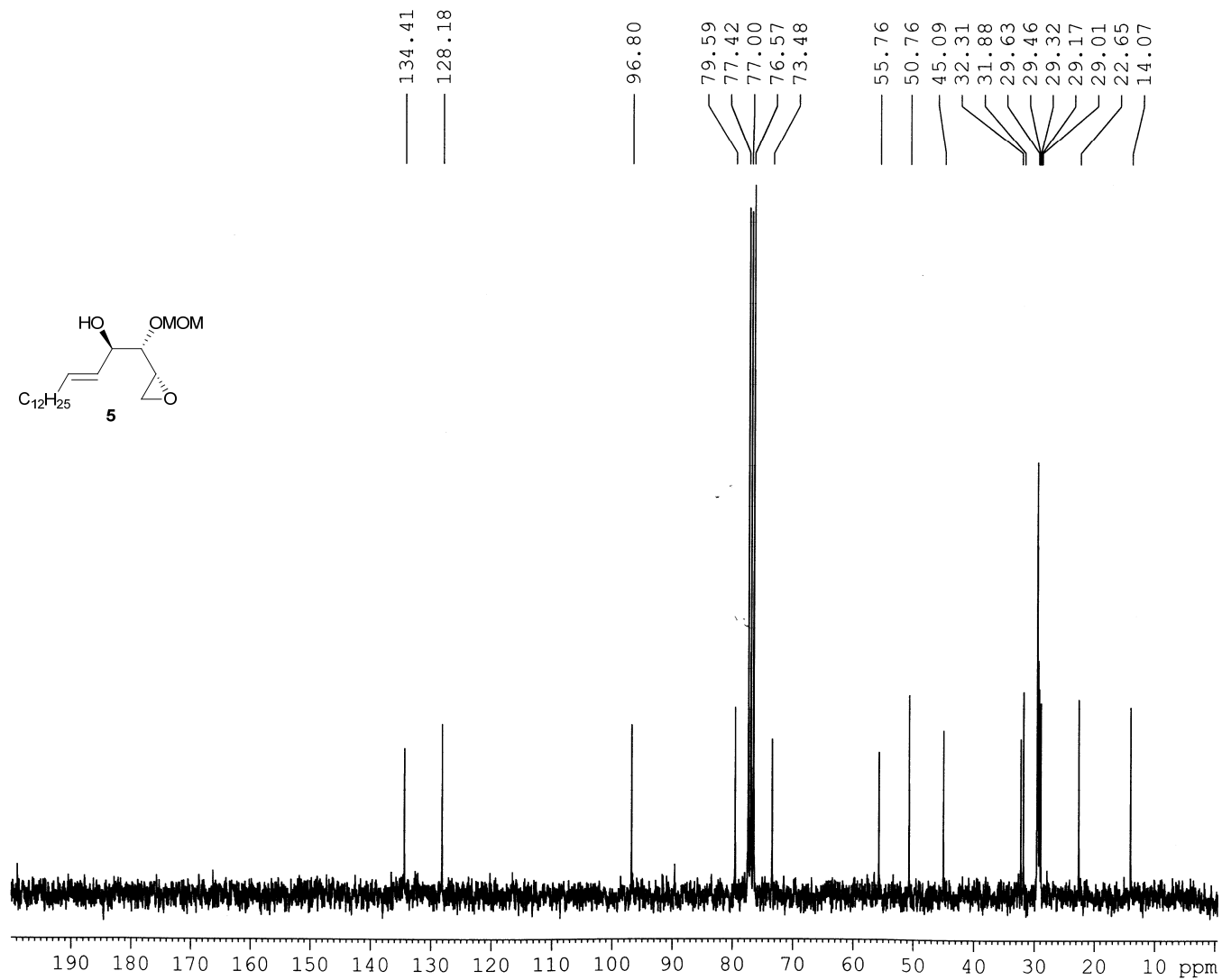


$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound 4

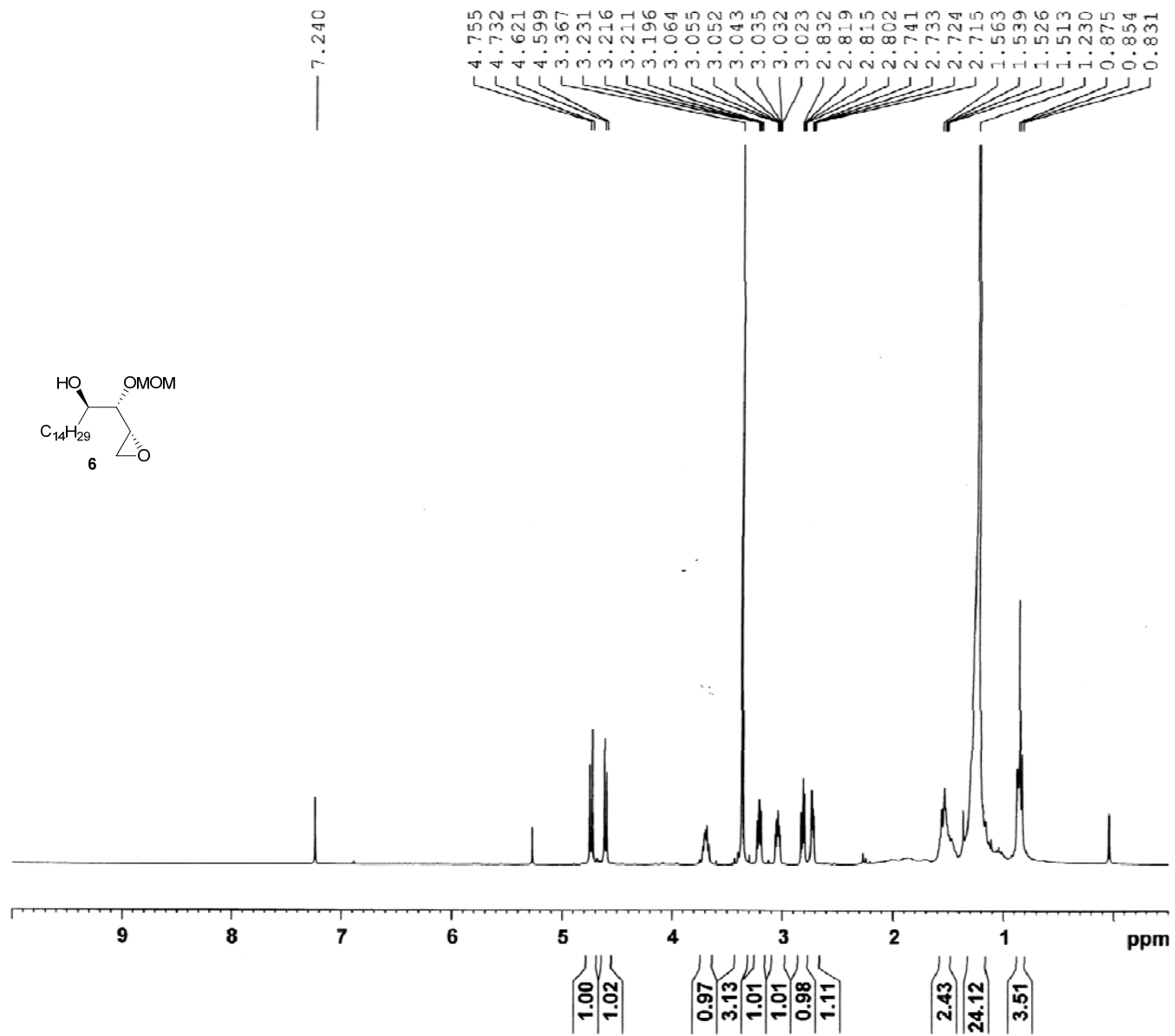




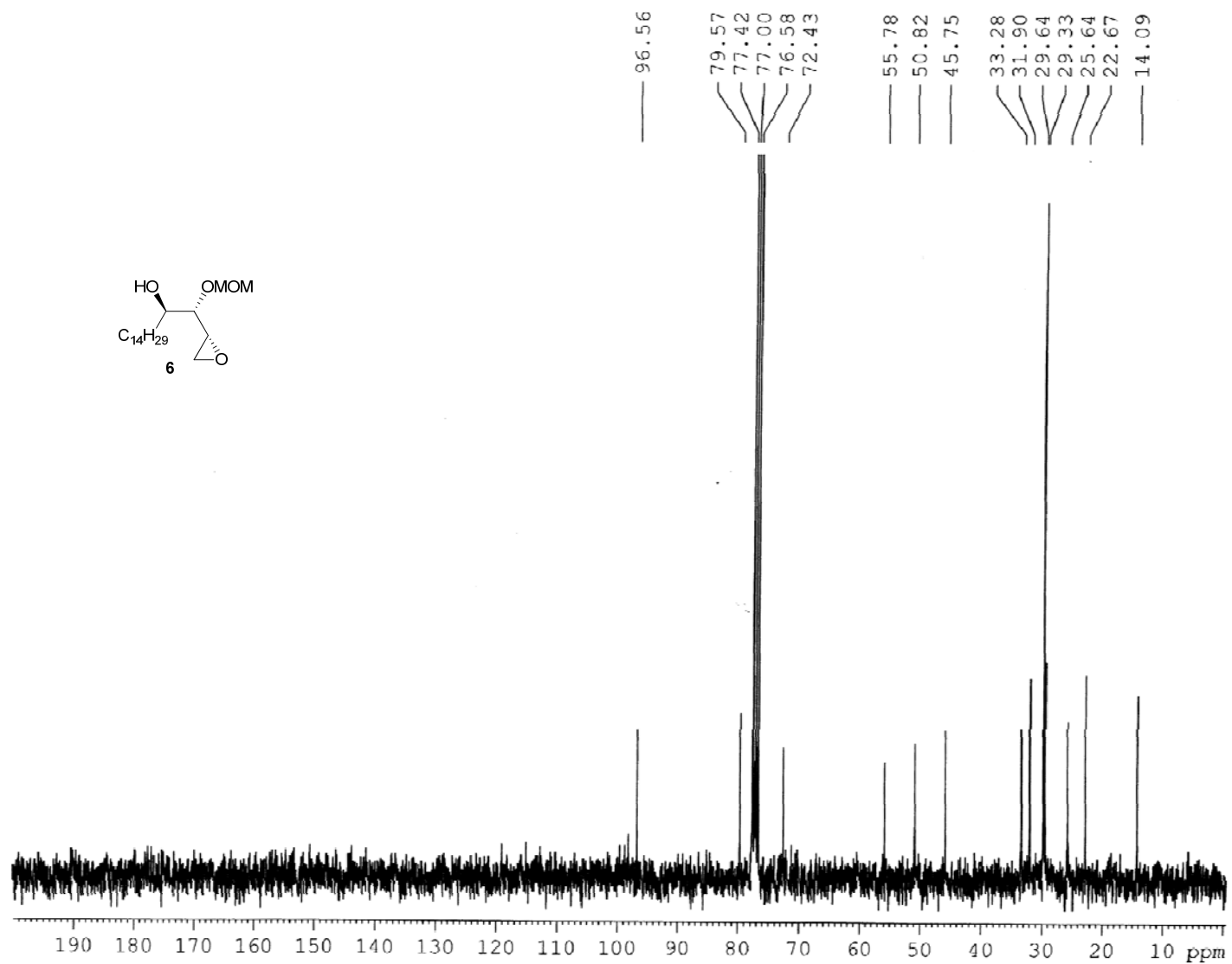
$^1H$  NMR (300 MHz  $CDCl_3$ ) of compound **5**



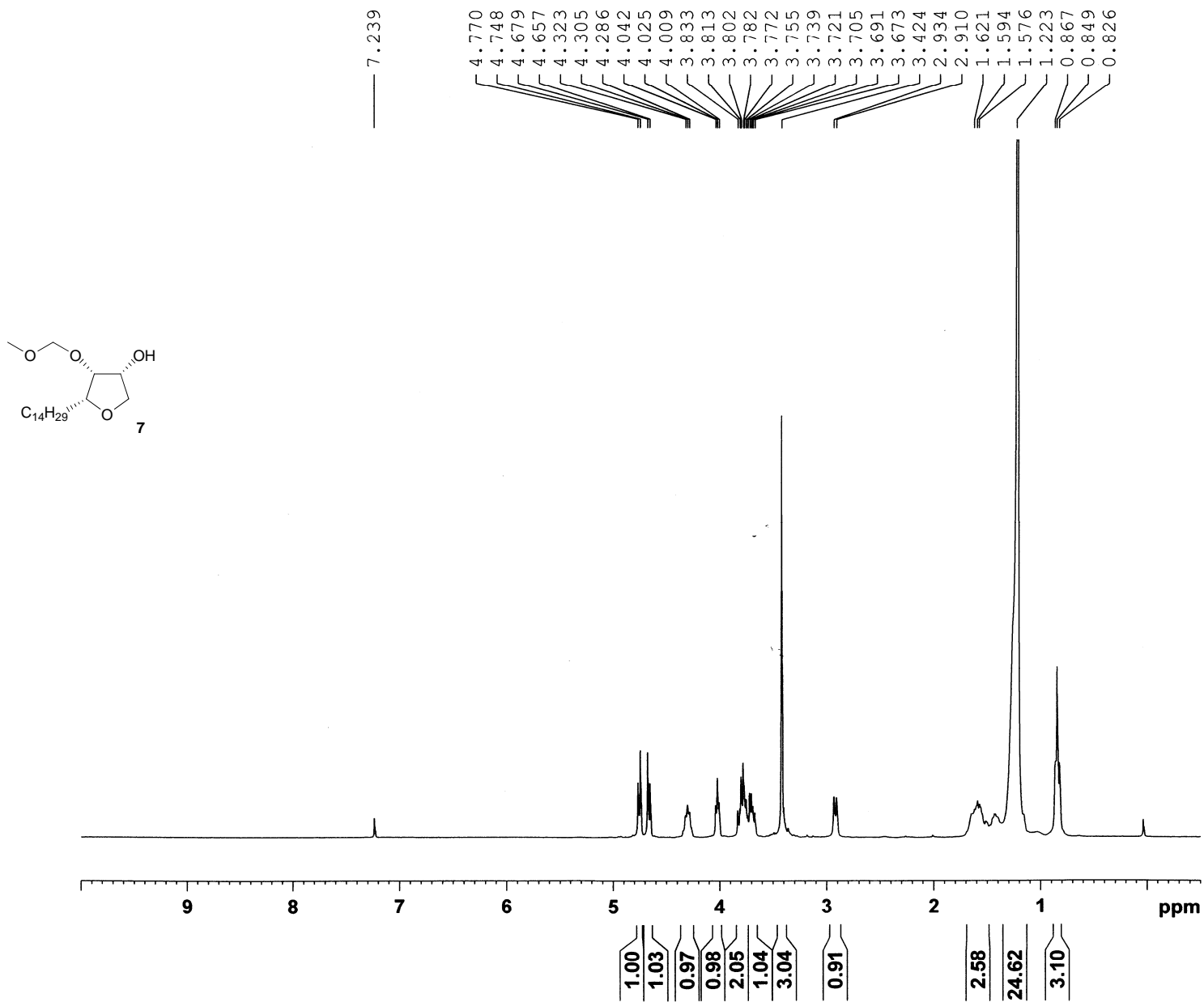
<sup>13</sup>C NMR (75 MHz CDCl<sub>3</sub>) of compound **5**



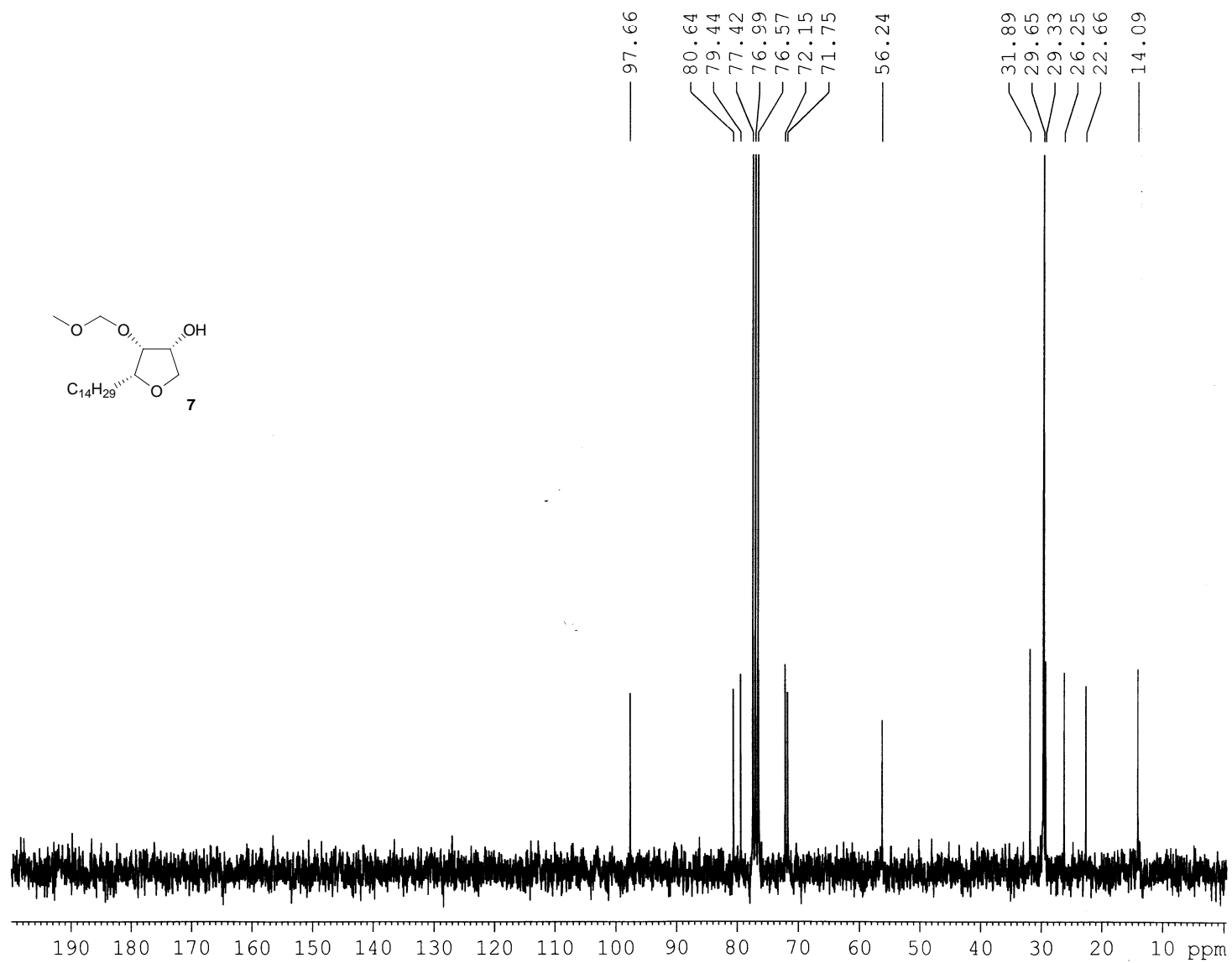
$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **6**



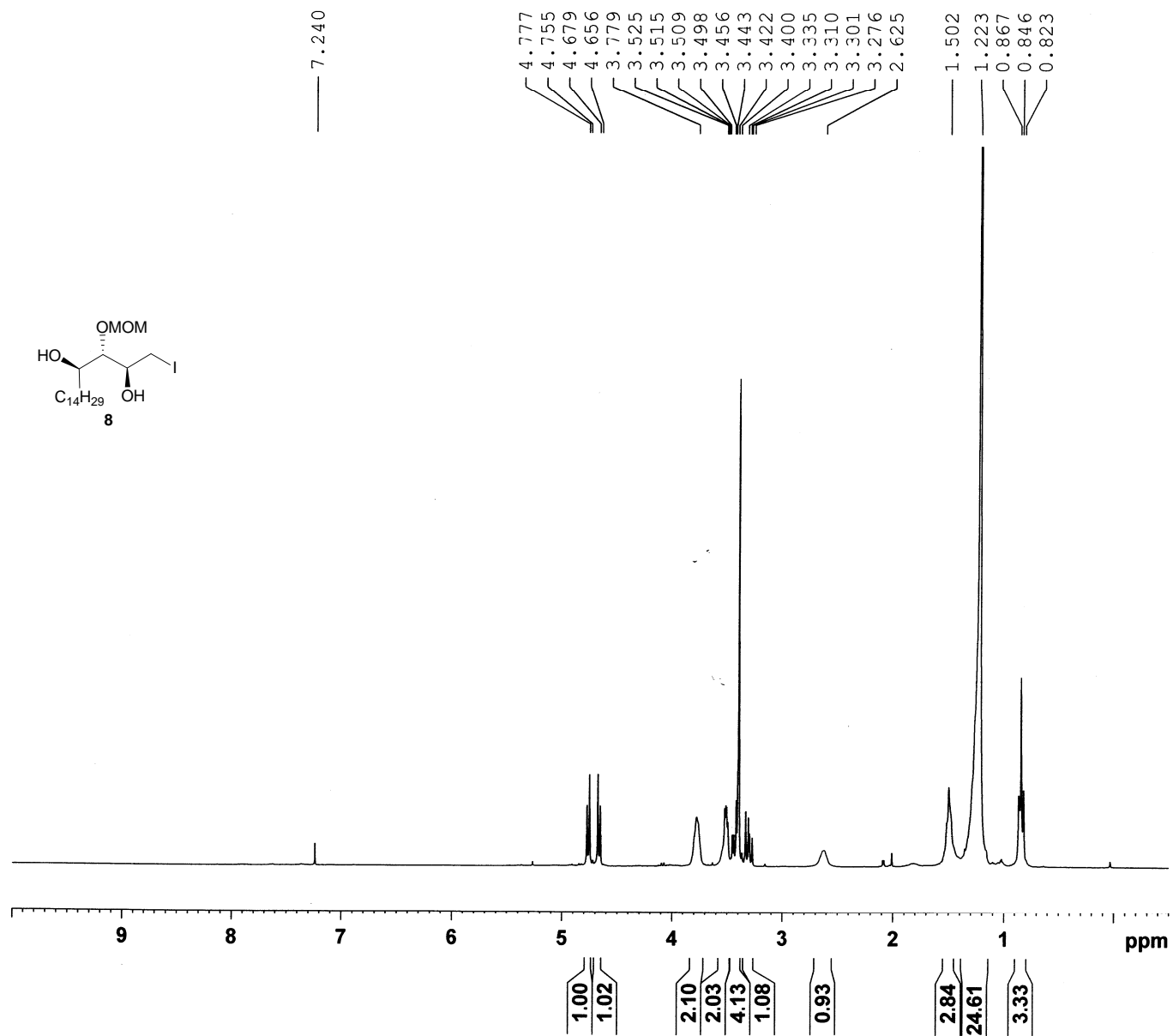
<sup>13</sup>C NMR (75 MHz CDCl<sub>3</sub>) of compound **6**



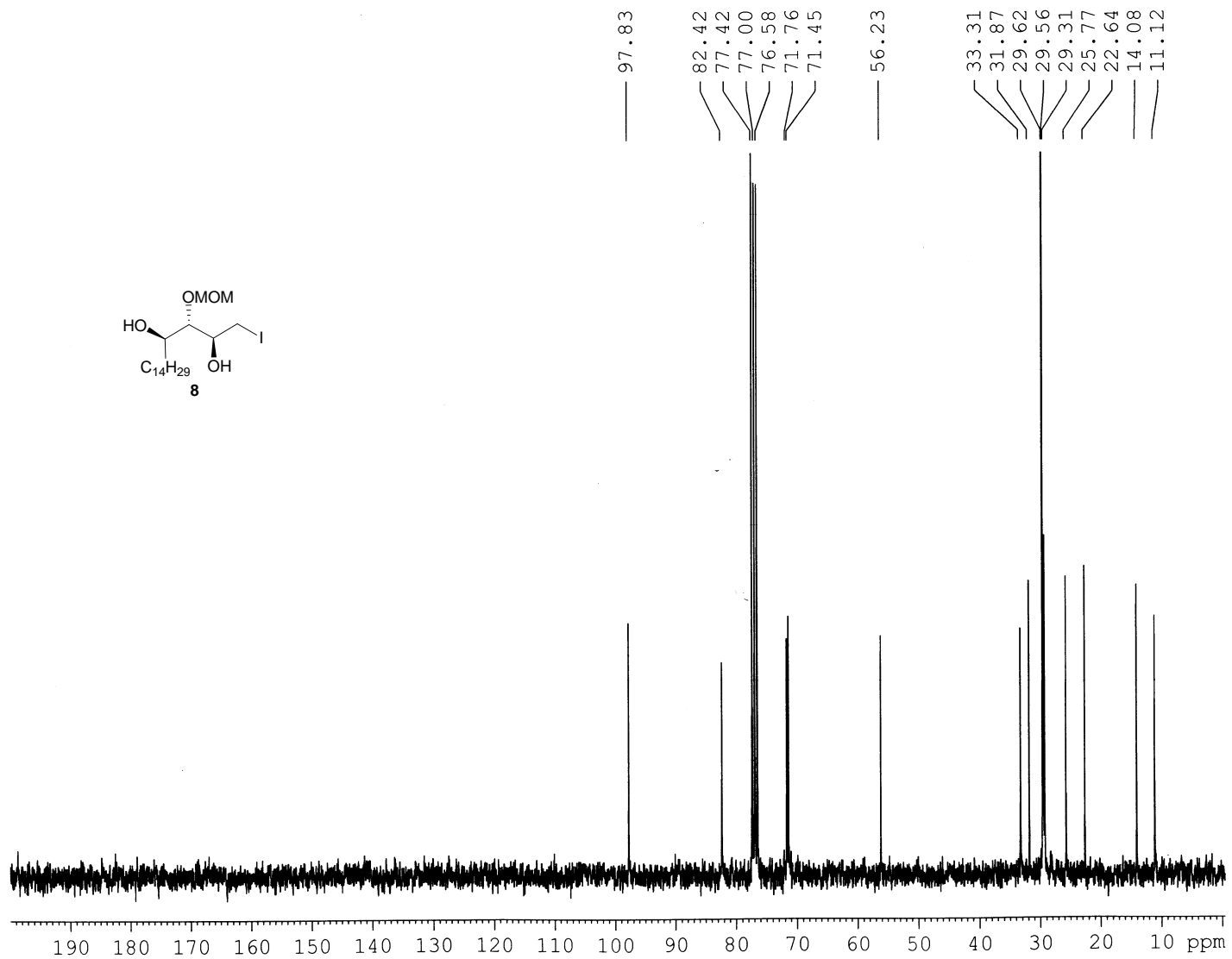
$^1H$  NMR (300 MHz  $CDCl_3$ ) of compound 7



$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound 7

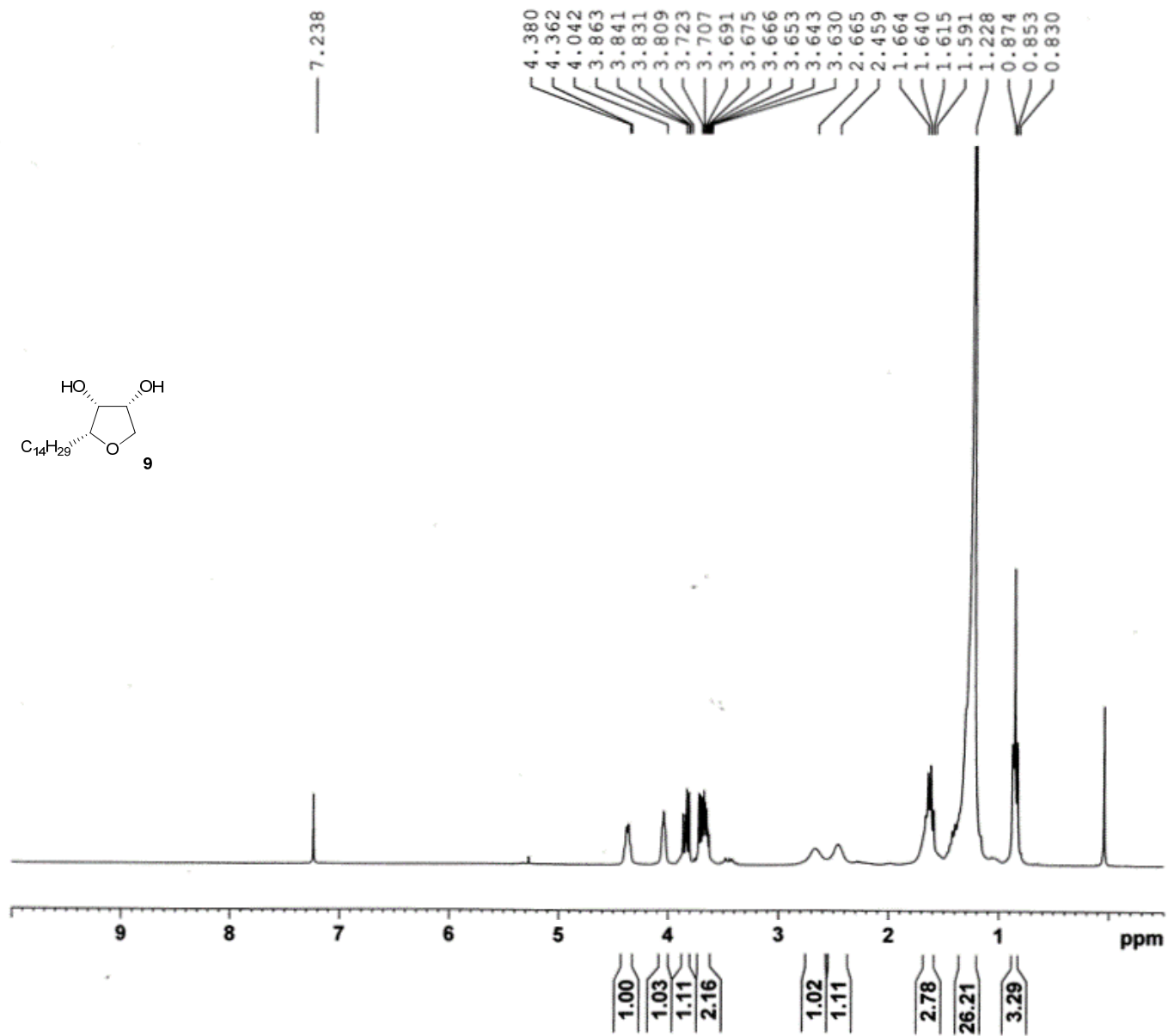


$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **8**

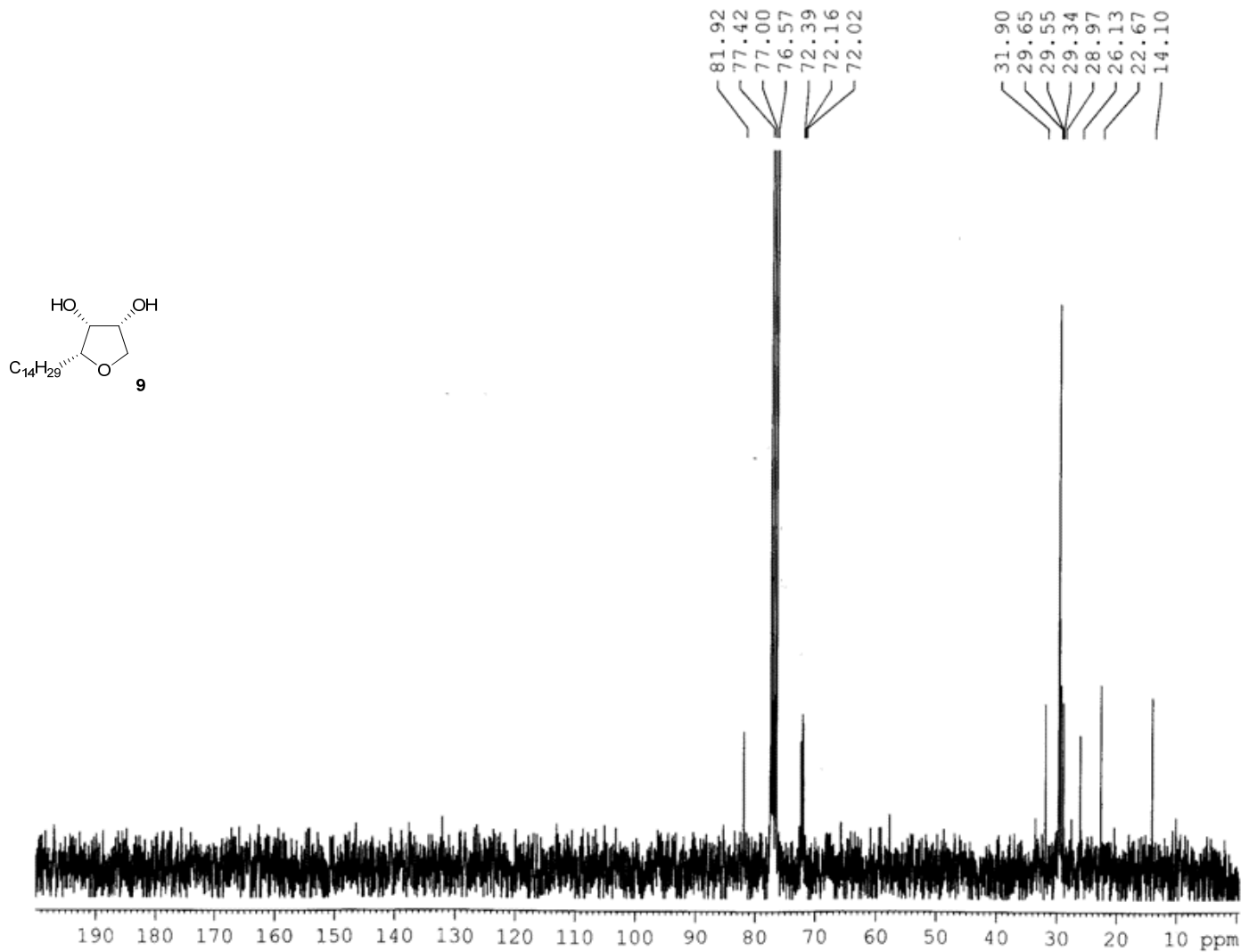


$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound **8**

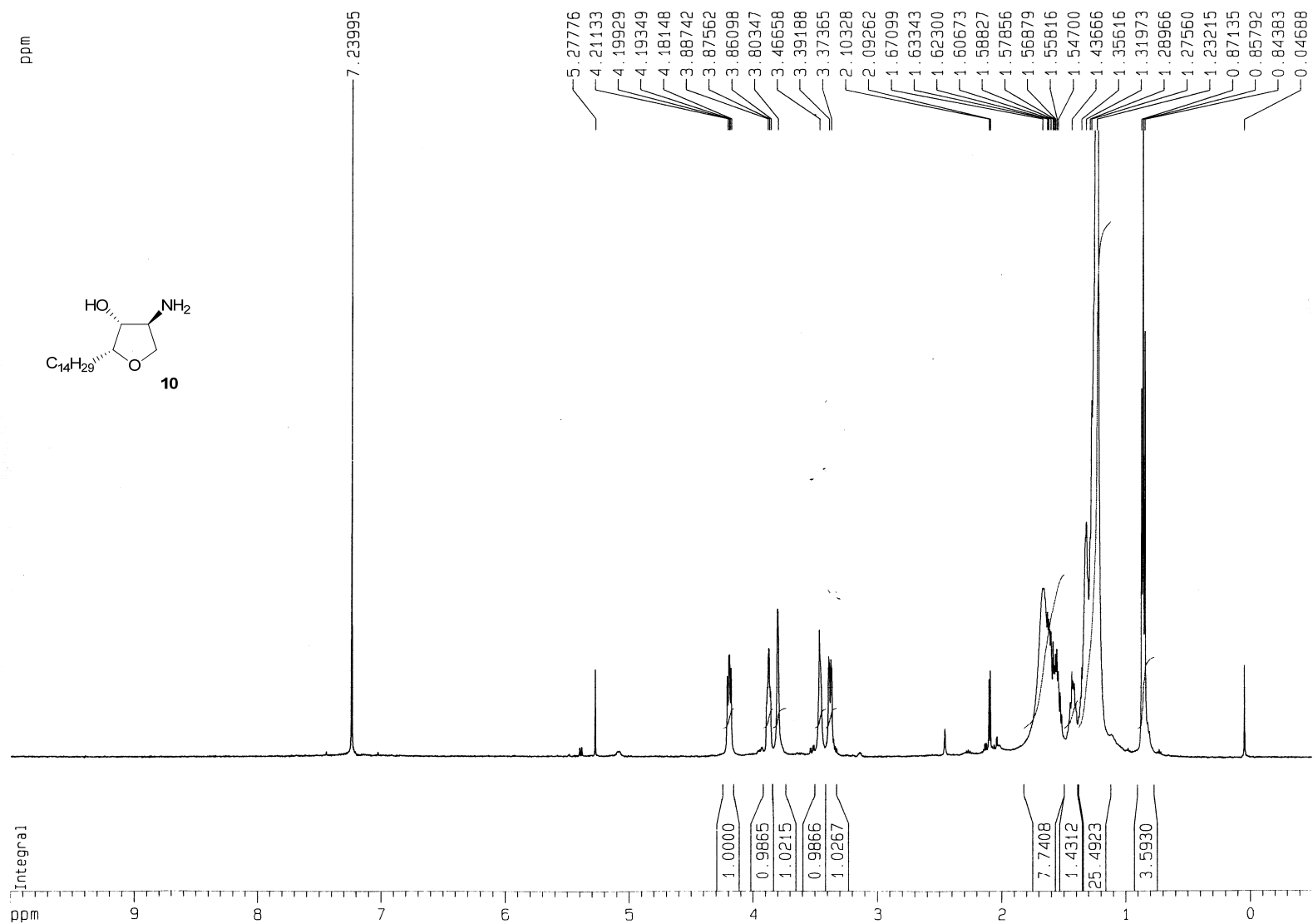




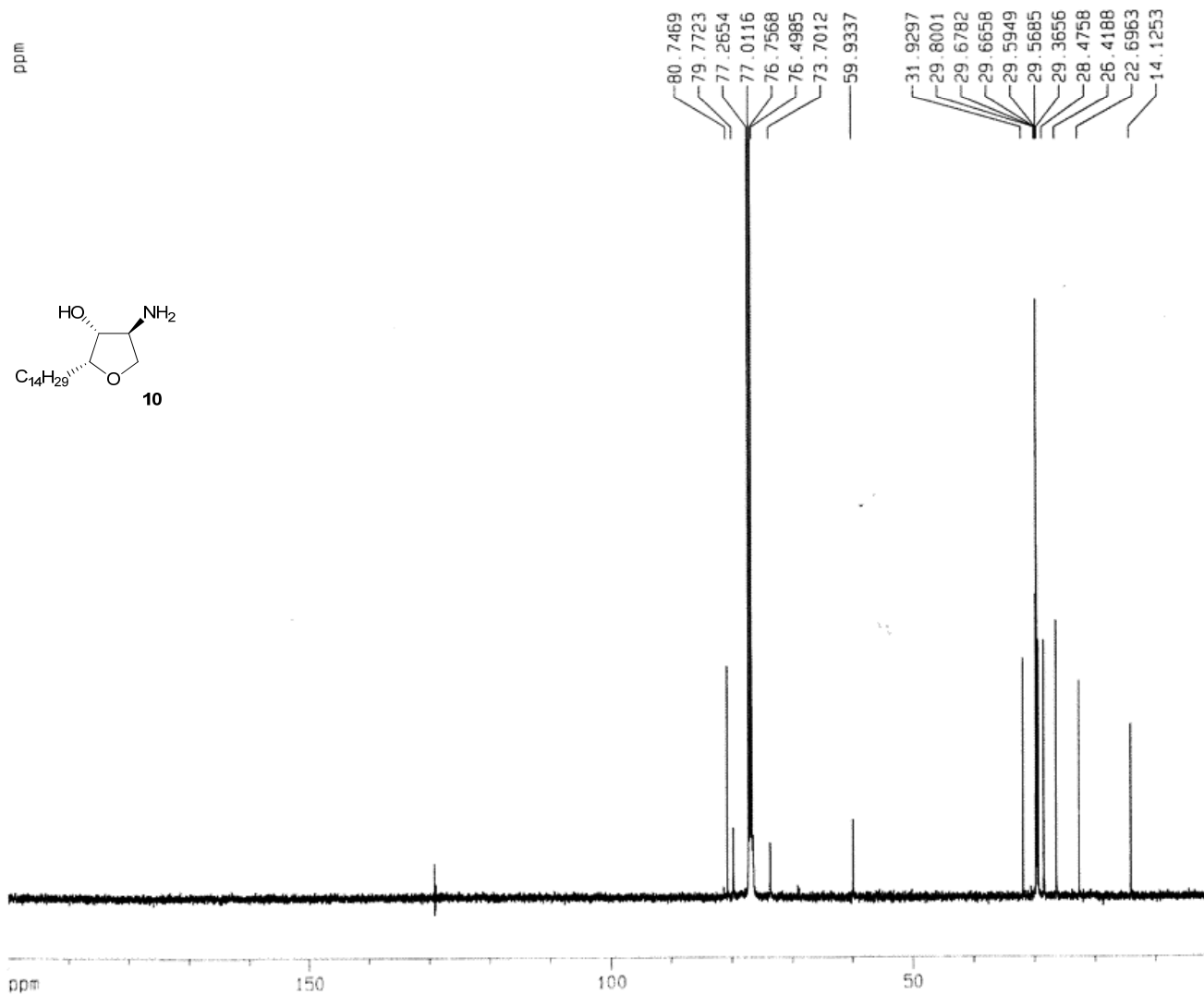
$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **9**



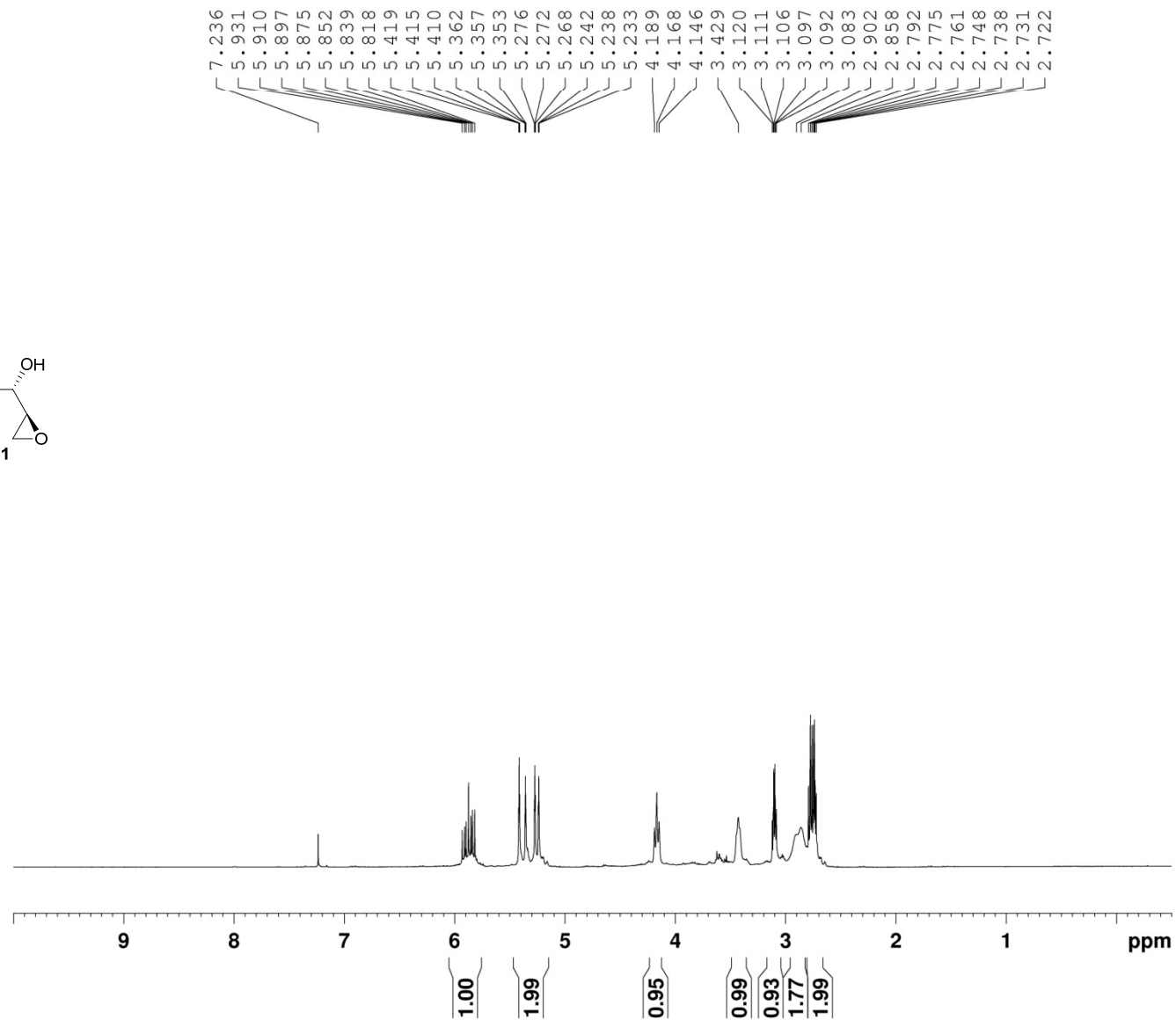
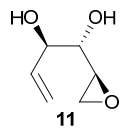
$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound **9**



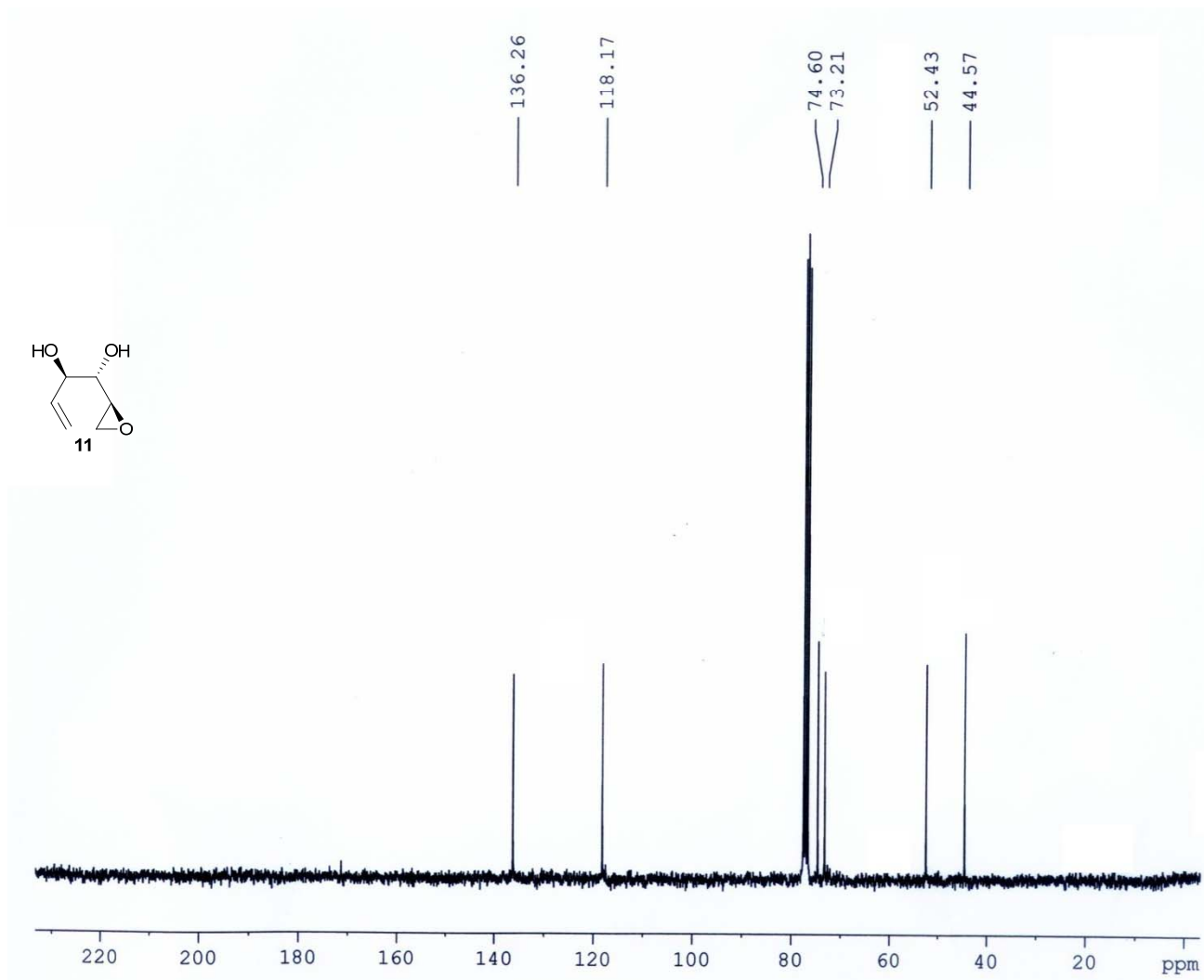
<sup>1</sup>H NMR (500 MHz CDCl<sub>3</sub>) of compound **10**



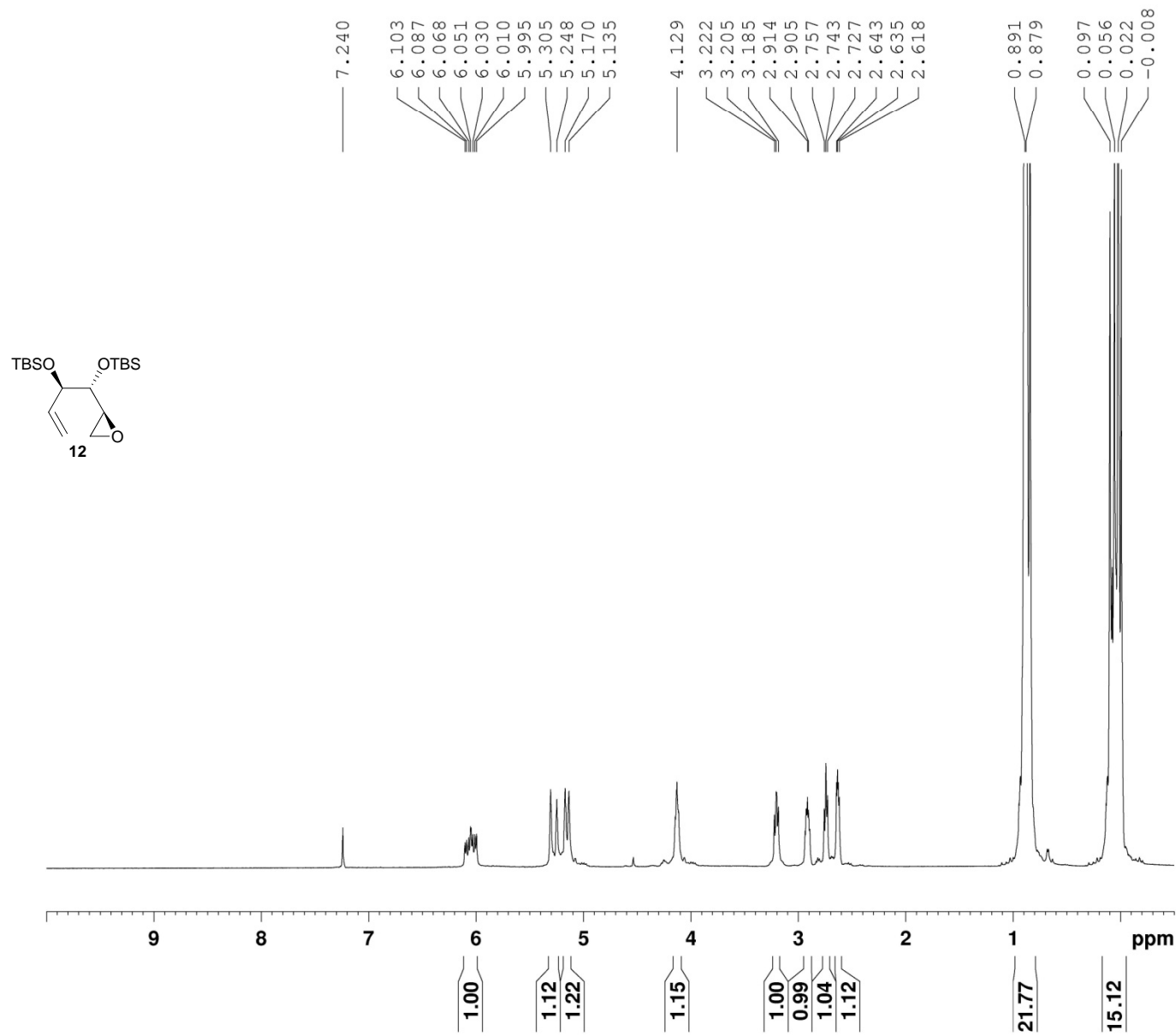
$^{13}\text{C}$  NMR (125 MHz  $\text{CDCl}_3$ ) of compound **10**



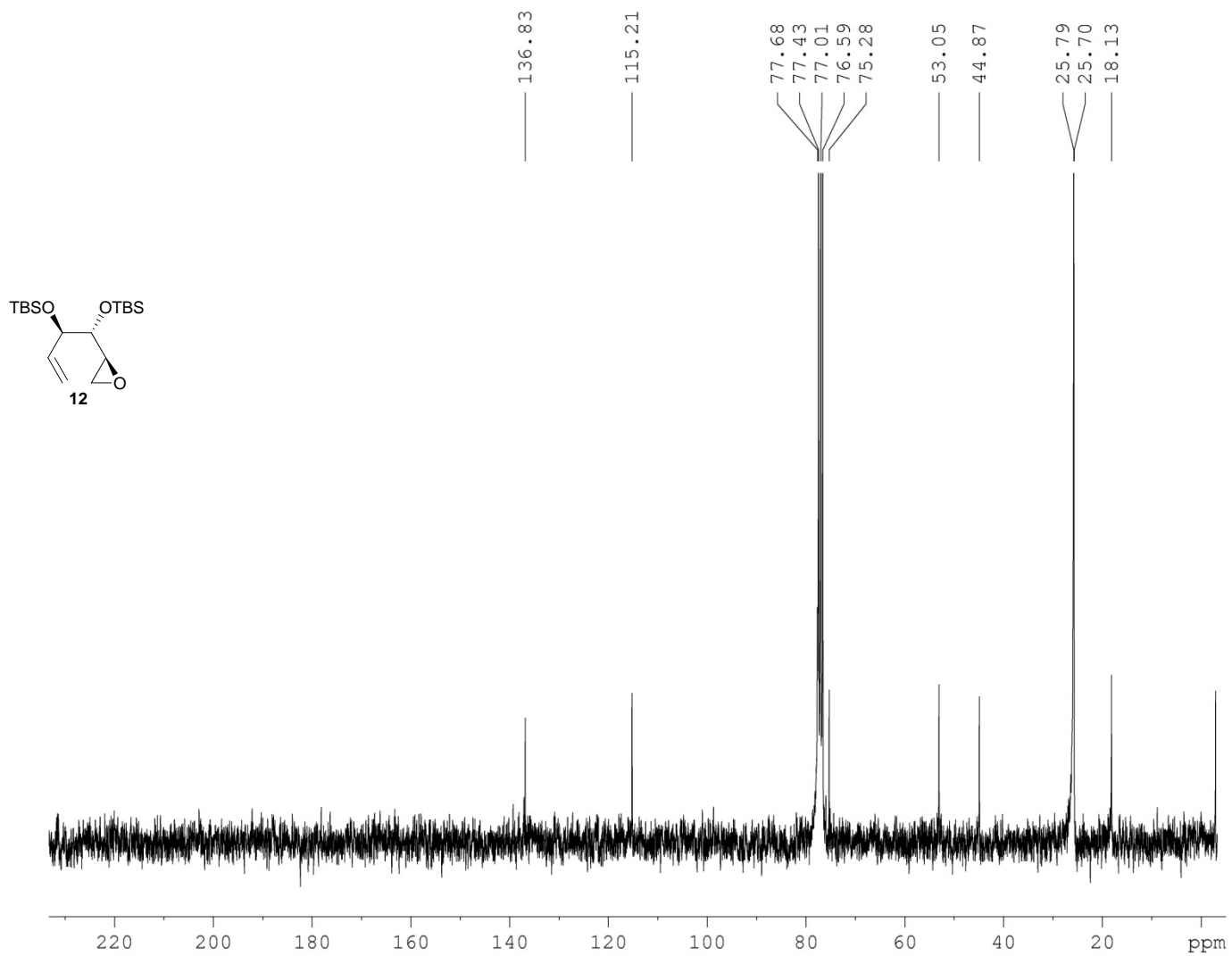
$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **11**



$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound **11**

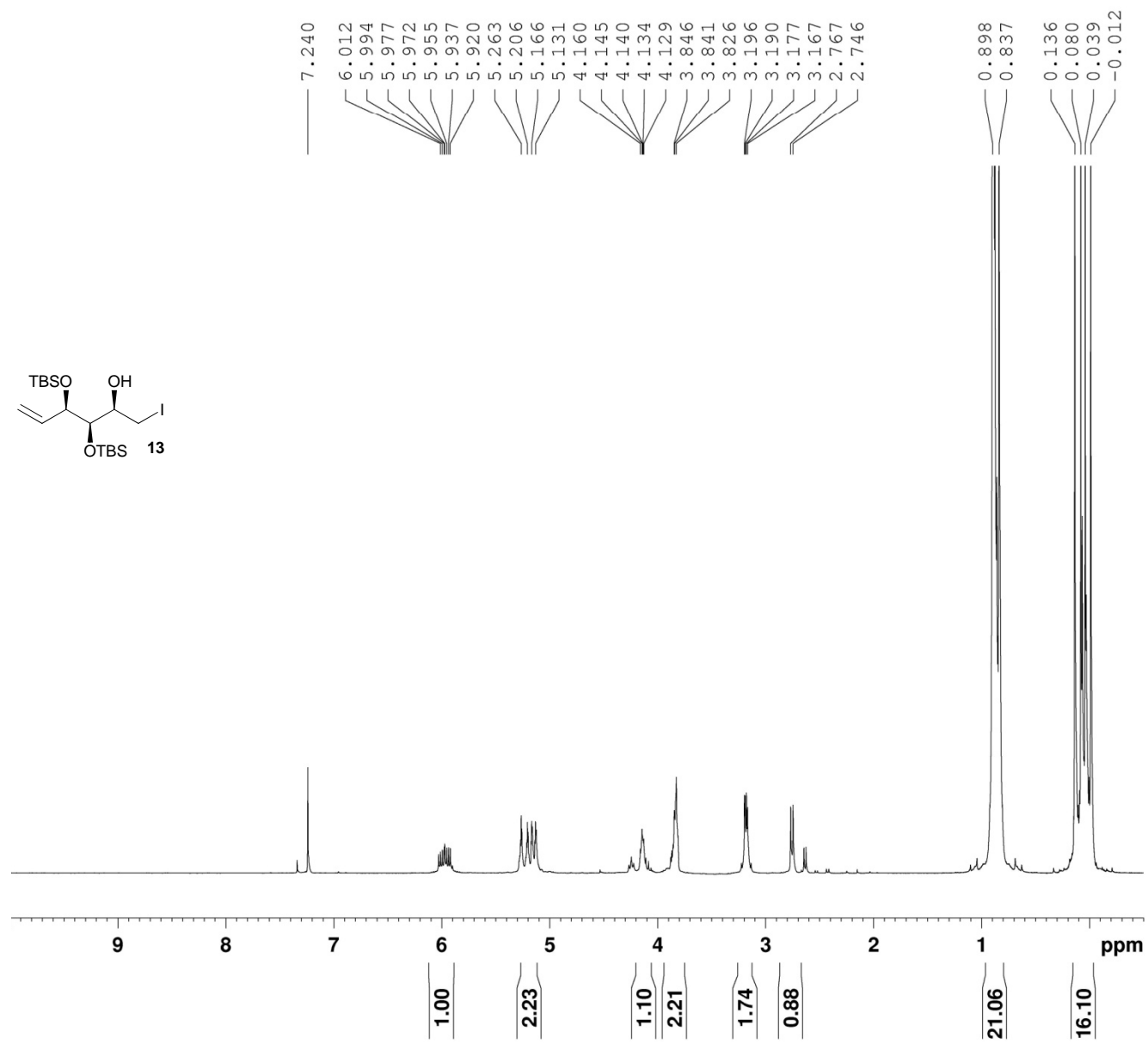


$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **12**

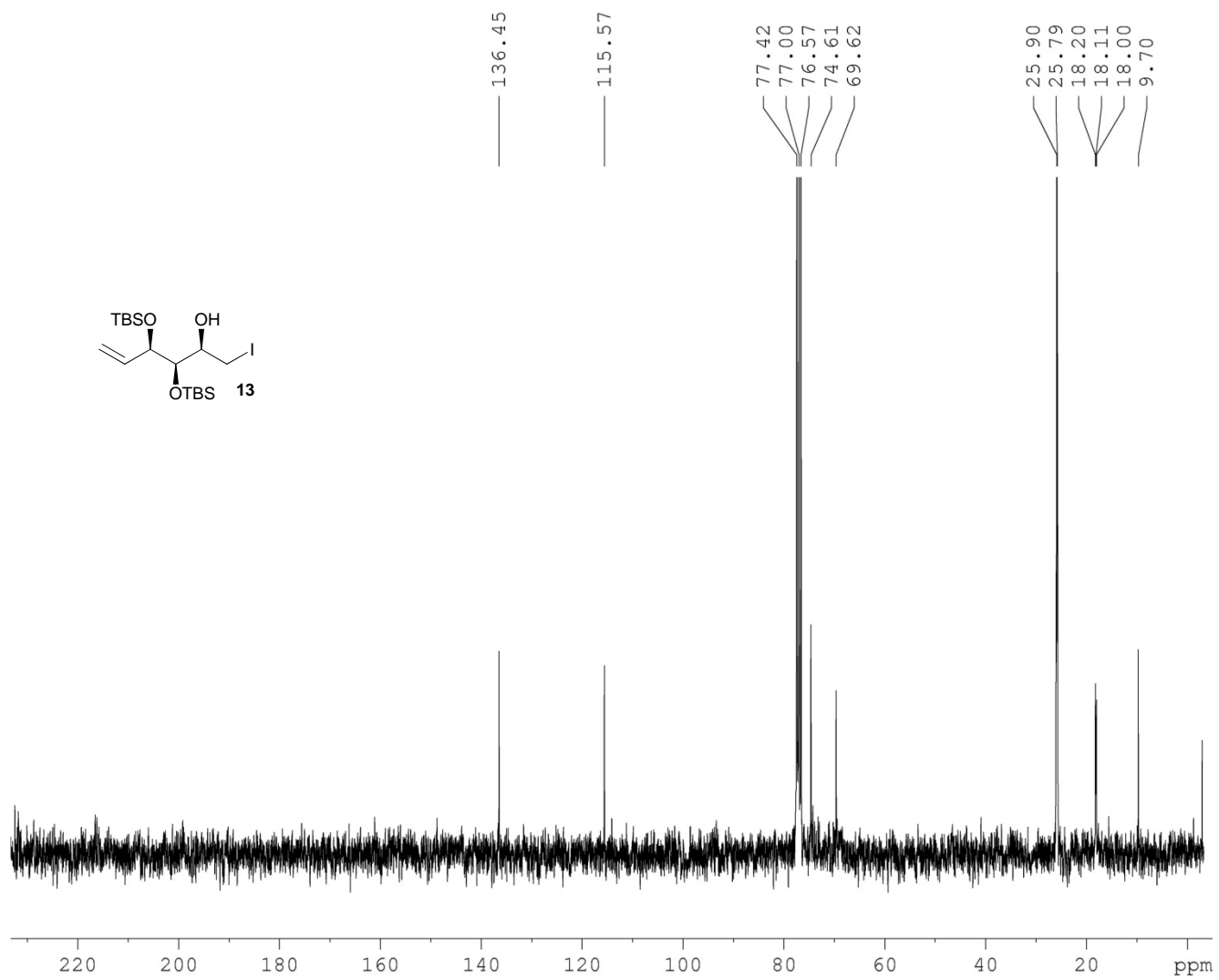


$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound **12**

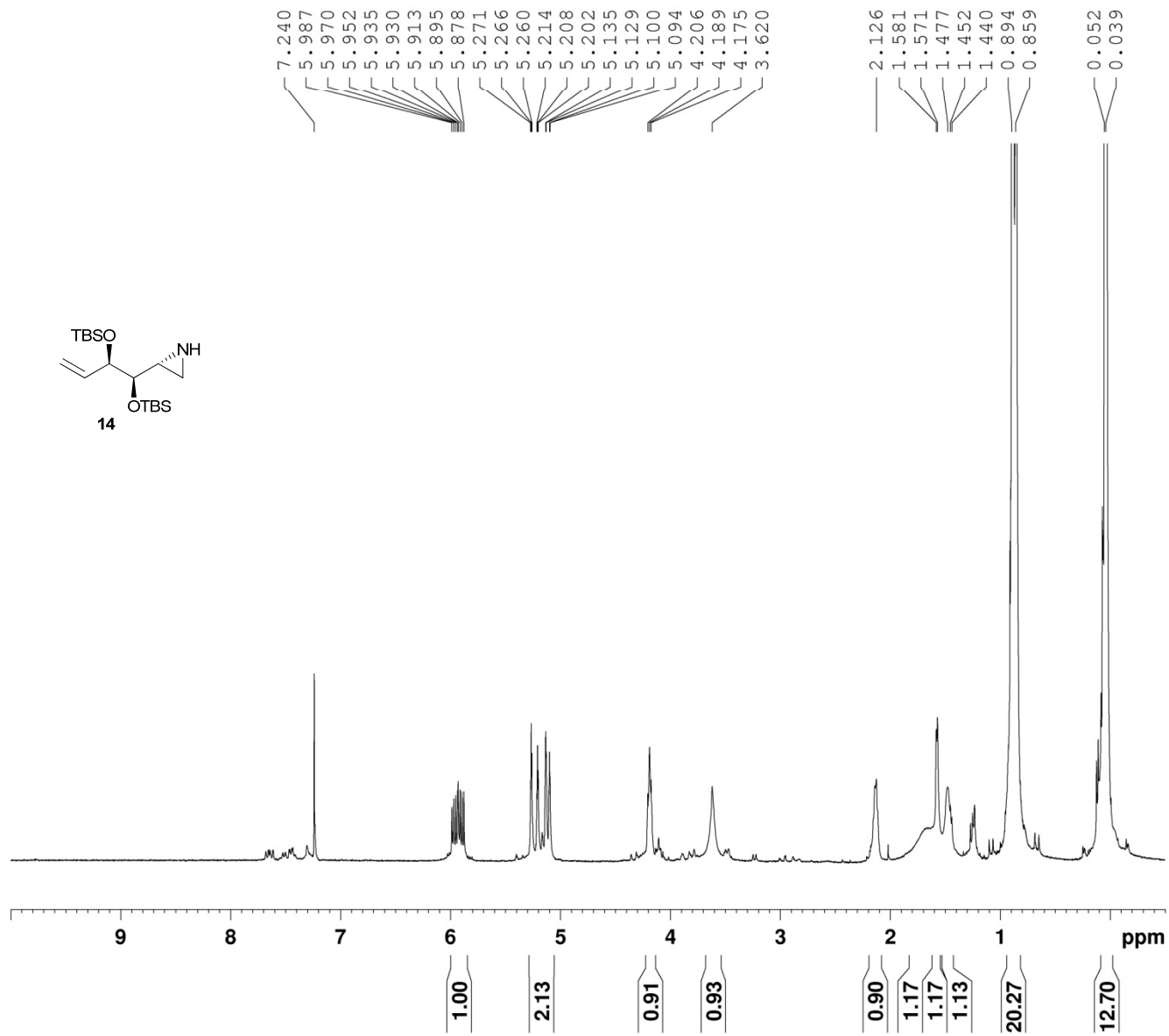




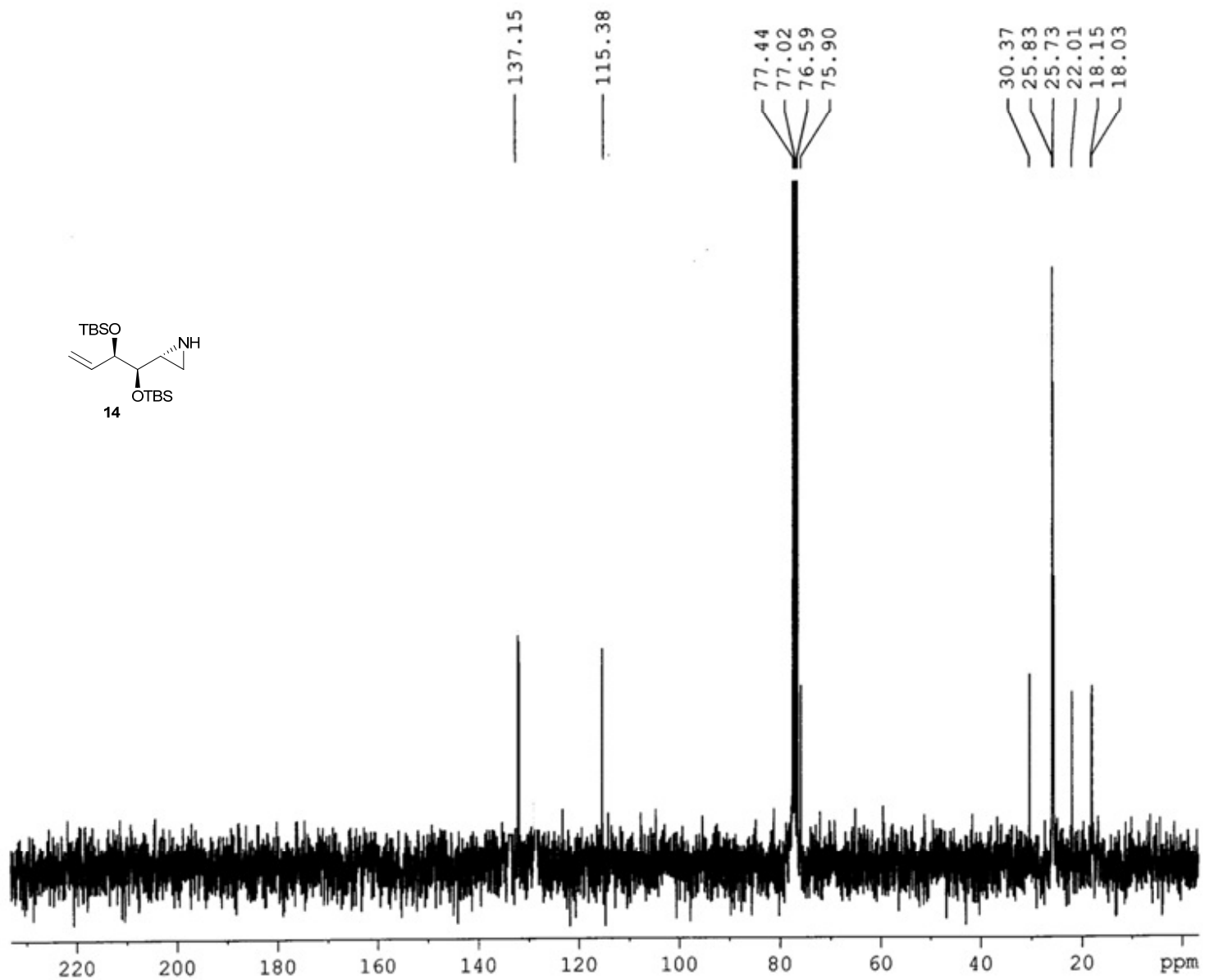
$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **13**



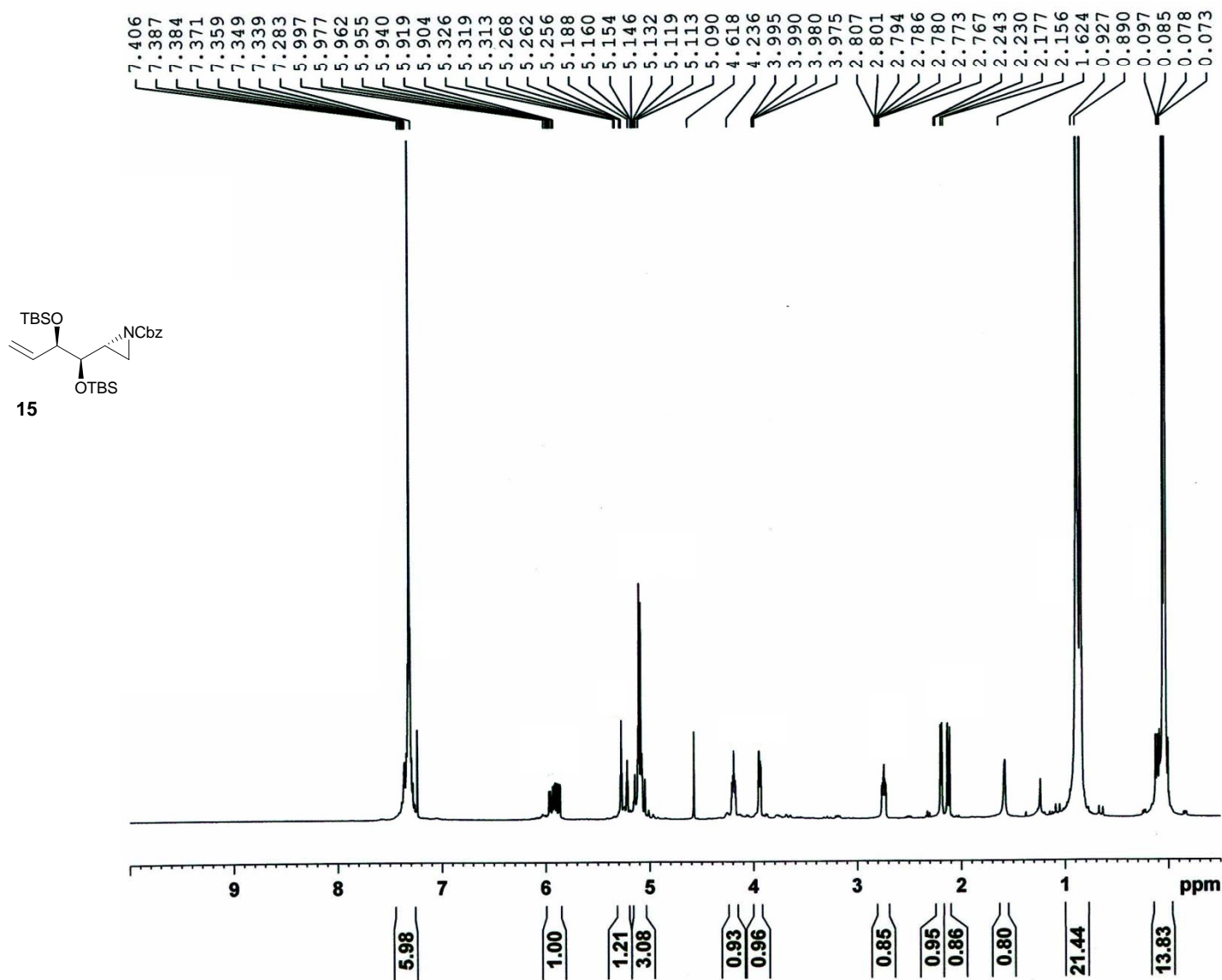
$^{13}\text{C}$  NM R(75 MHz  $\text{CDCl}_3$ ) of compound **13**



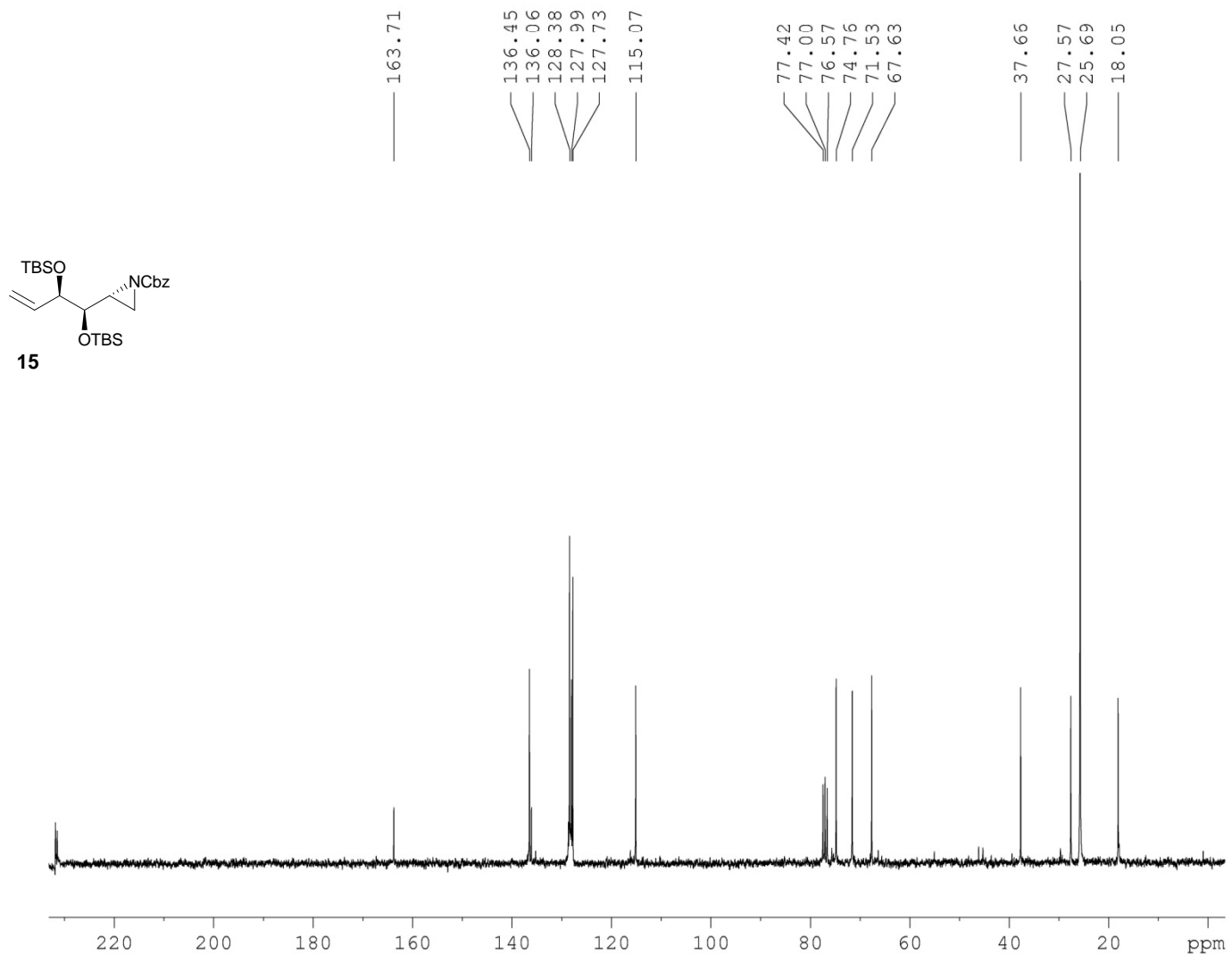
$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) of compound **14**

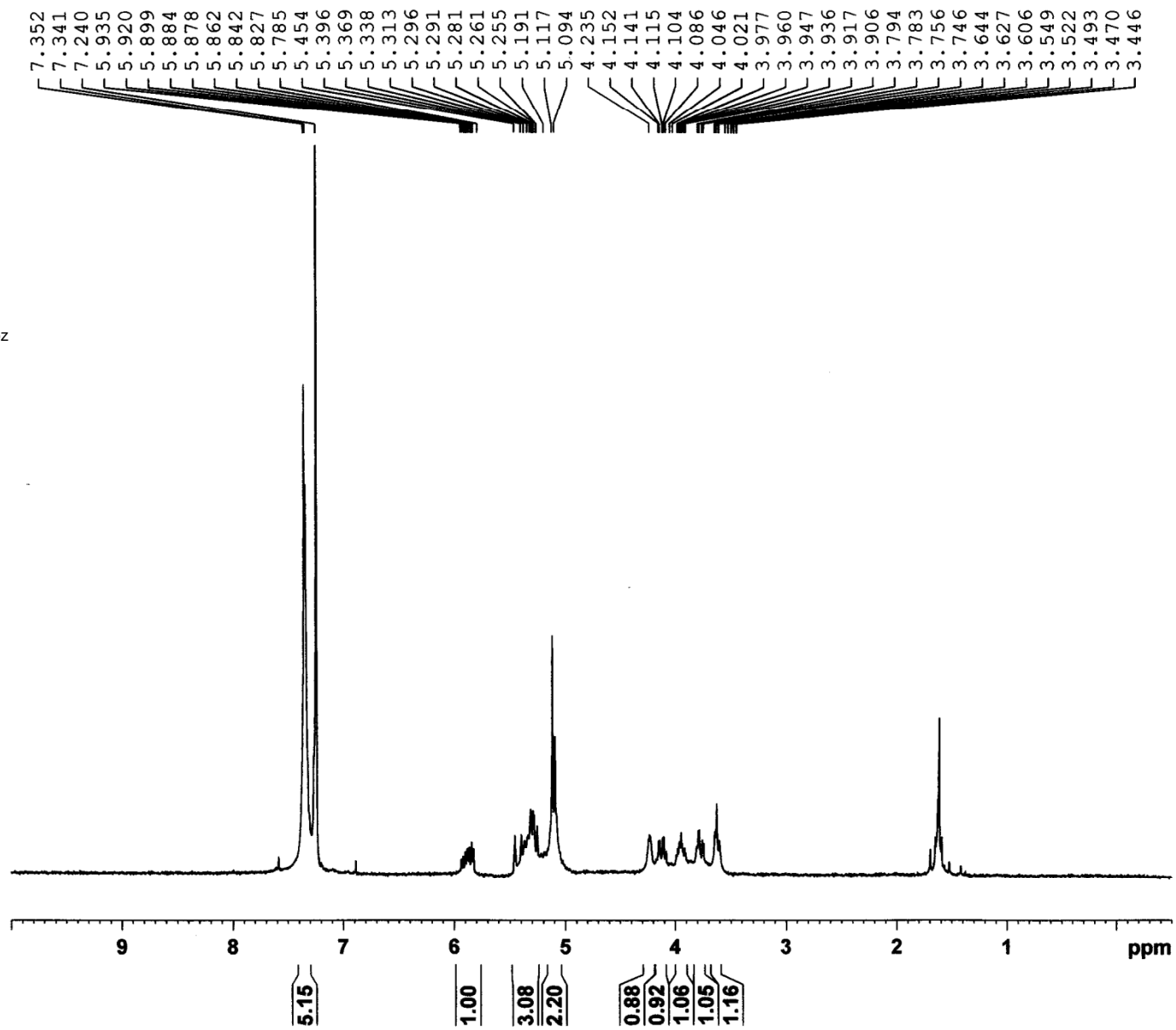
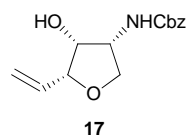


$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound **14**

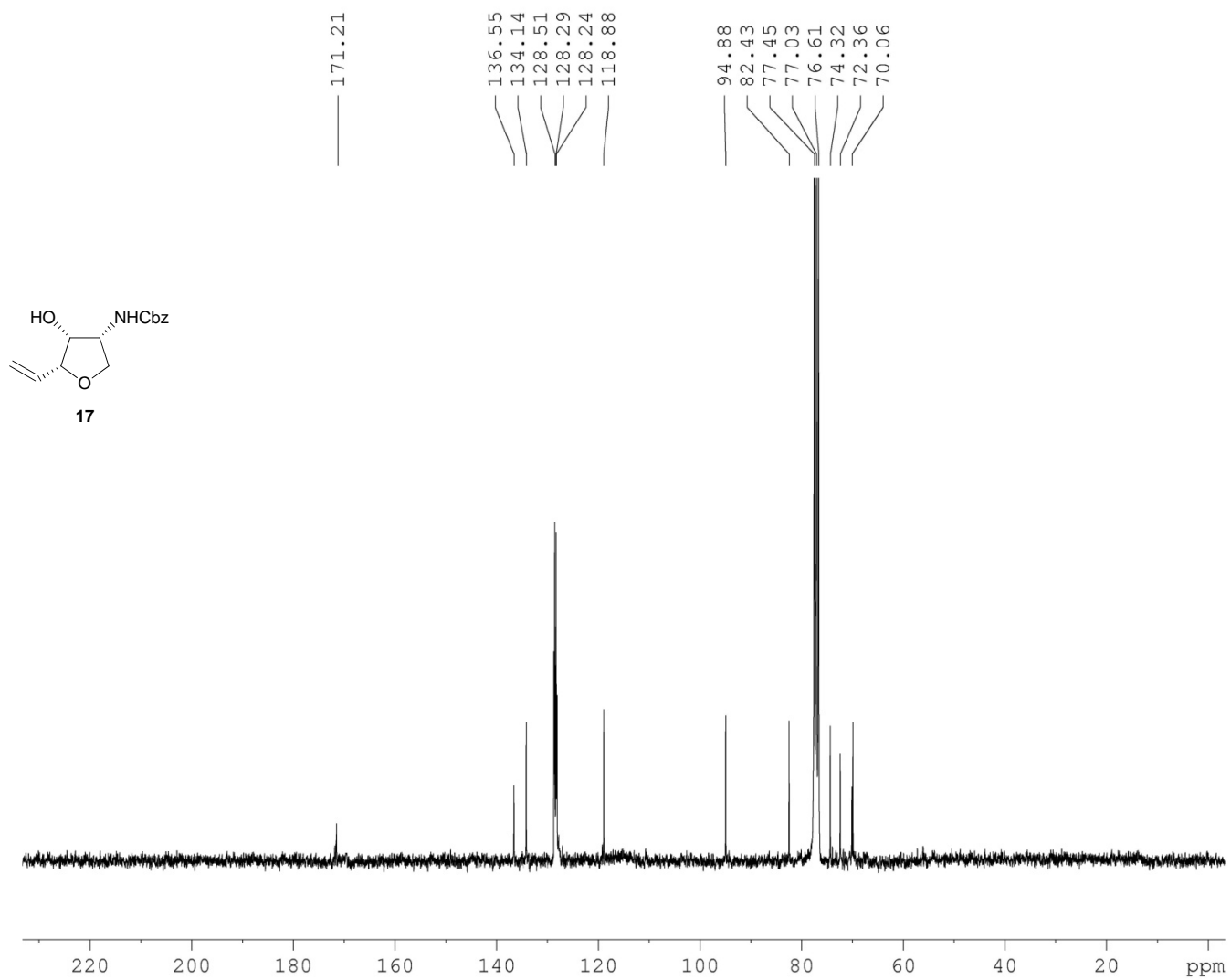


<sup>1</sup>H NMR (300 MHz CDCl<sub>3</sub>) compound **15**



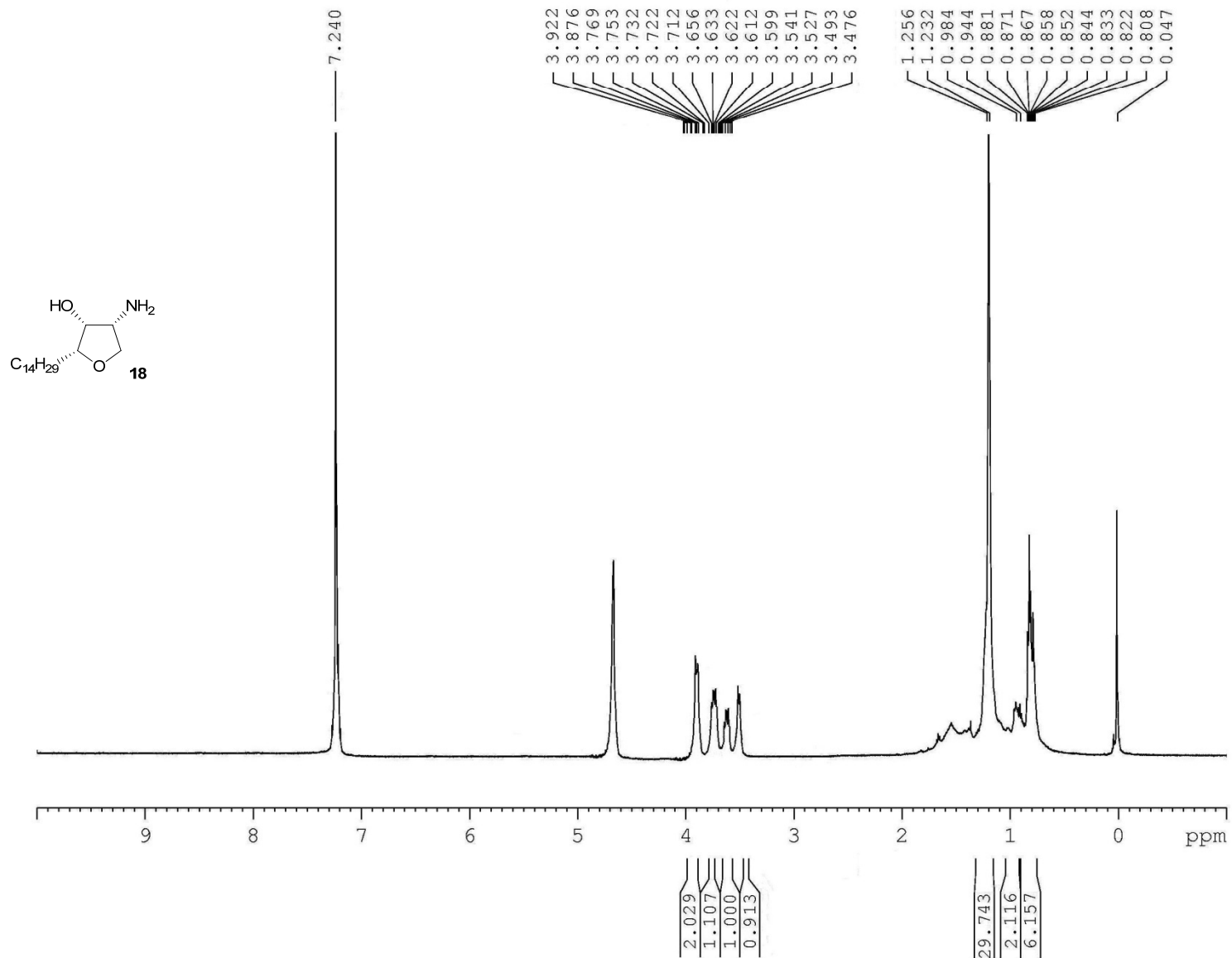


$^1\text{H}$  NMR (300 MHz  $\text{CDCl}_3$ ) compound **17**

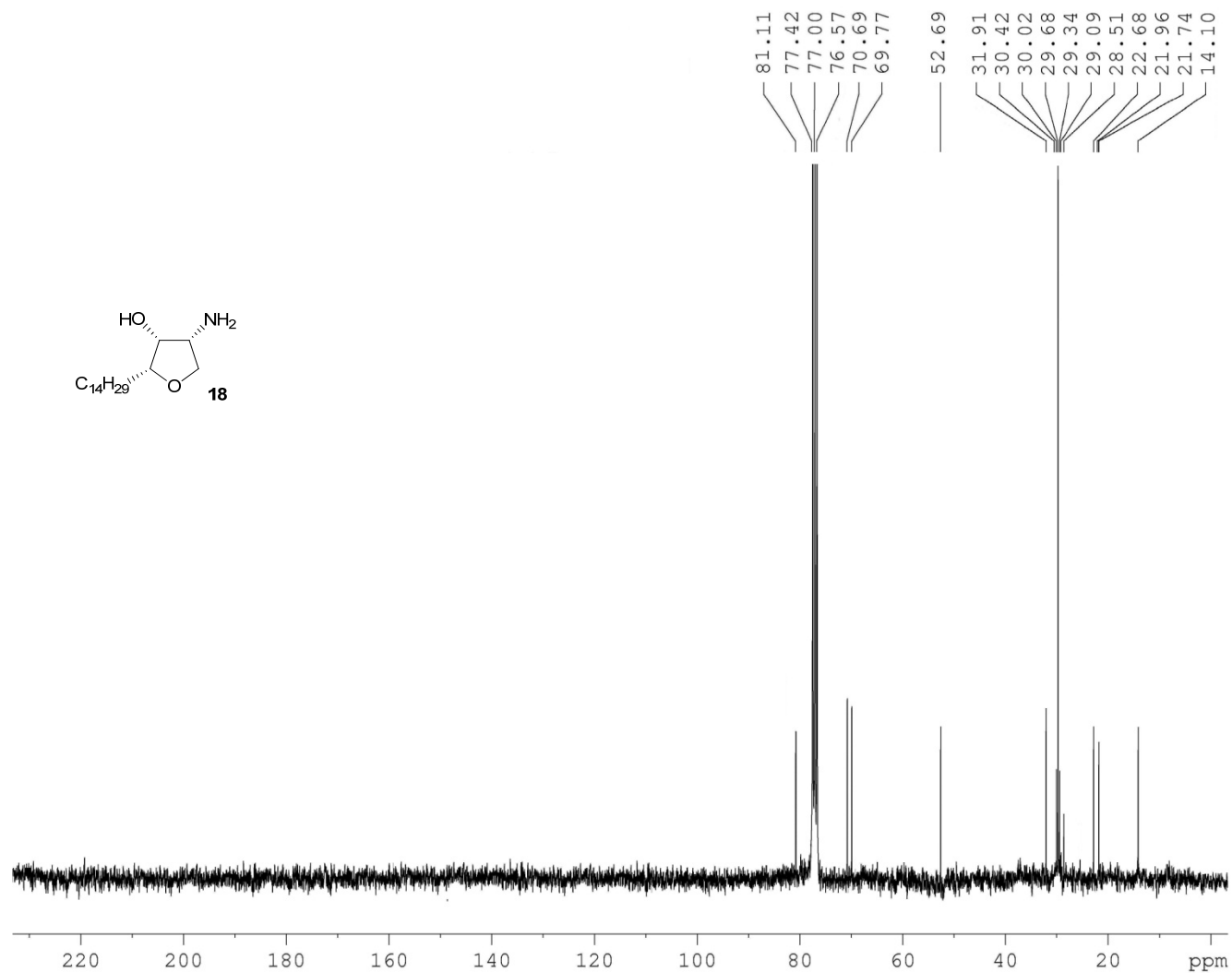


$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) compound **17**

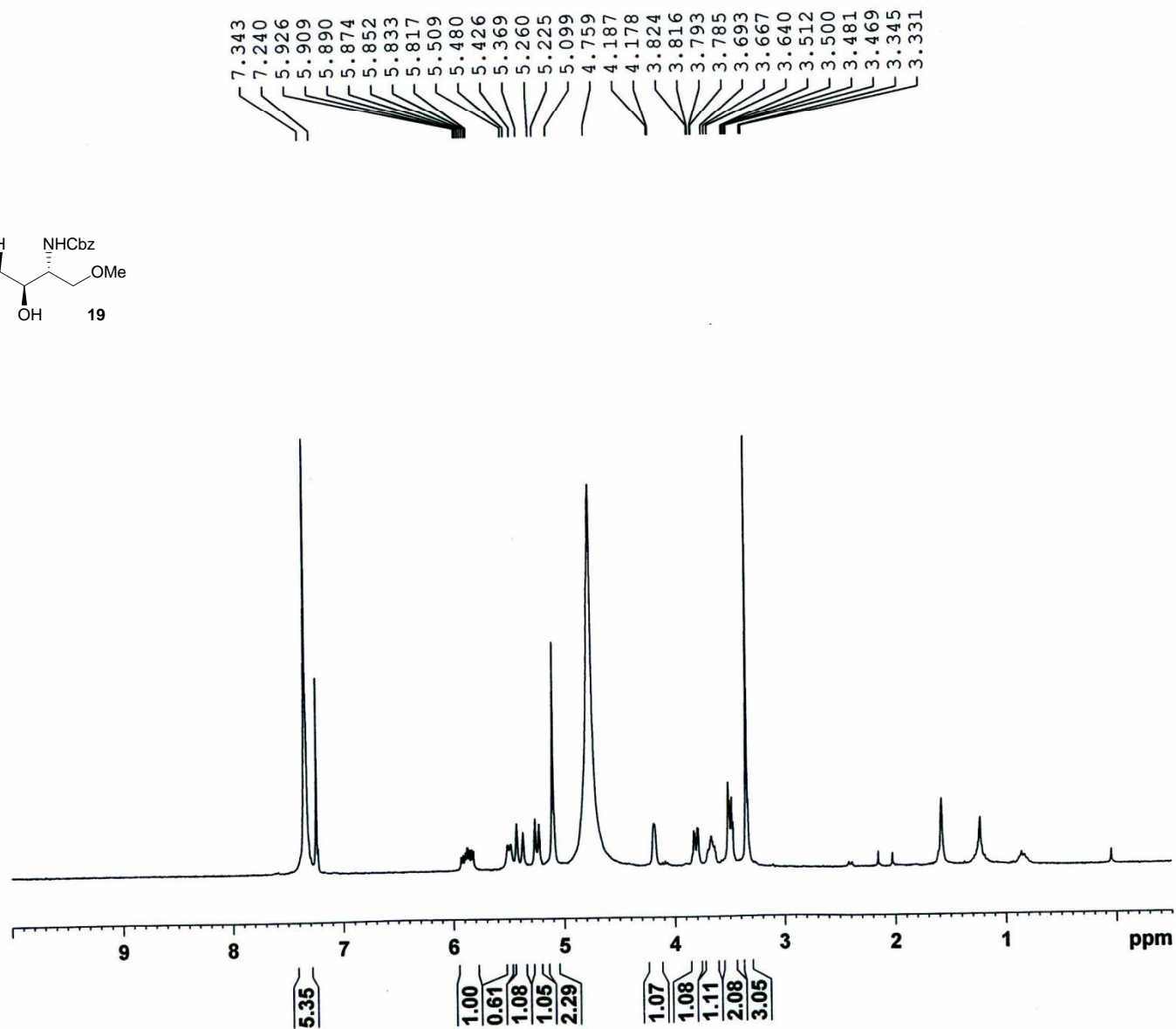
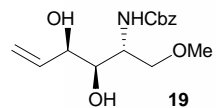




<sup>1</sup>H NMR (500 MHz CDCl<sub>3</sub>/D<sub>2</sub>O) compound **18**



$^{13}\text{C}$  NMR (75 MHz  $\text{CDCl}_3$ ) of compound **18**



<sup>1</sup>H NMR(300 MHz CDCl<sub>3</sub>/D<sub>2</sub>O) of compound **19**

