

*Supplementary Information*

Synthesis of  $\alpha$ -hydroxy,  $\beta$ -bromo-*exo*-dicyclopentadiene-1-one: A new building block for cyclopentanoids

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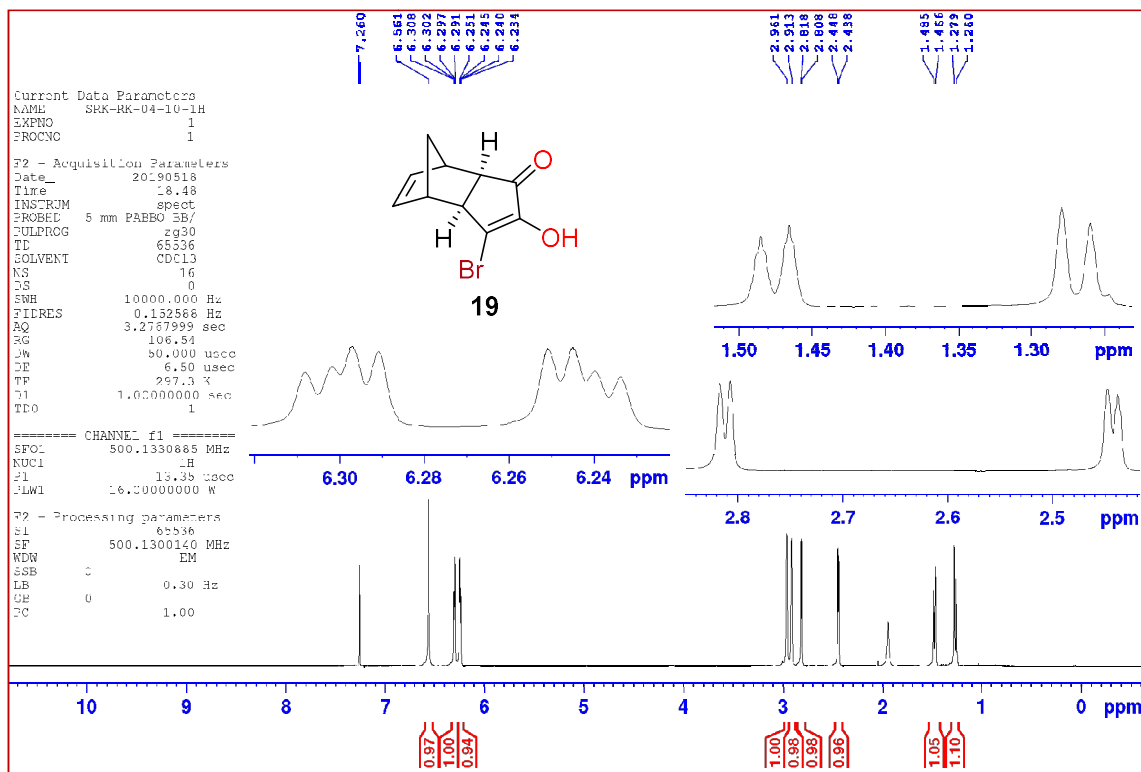
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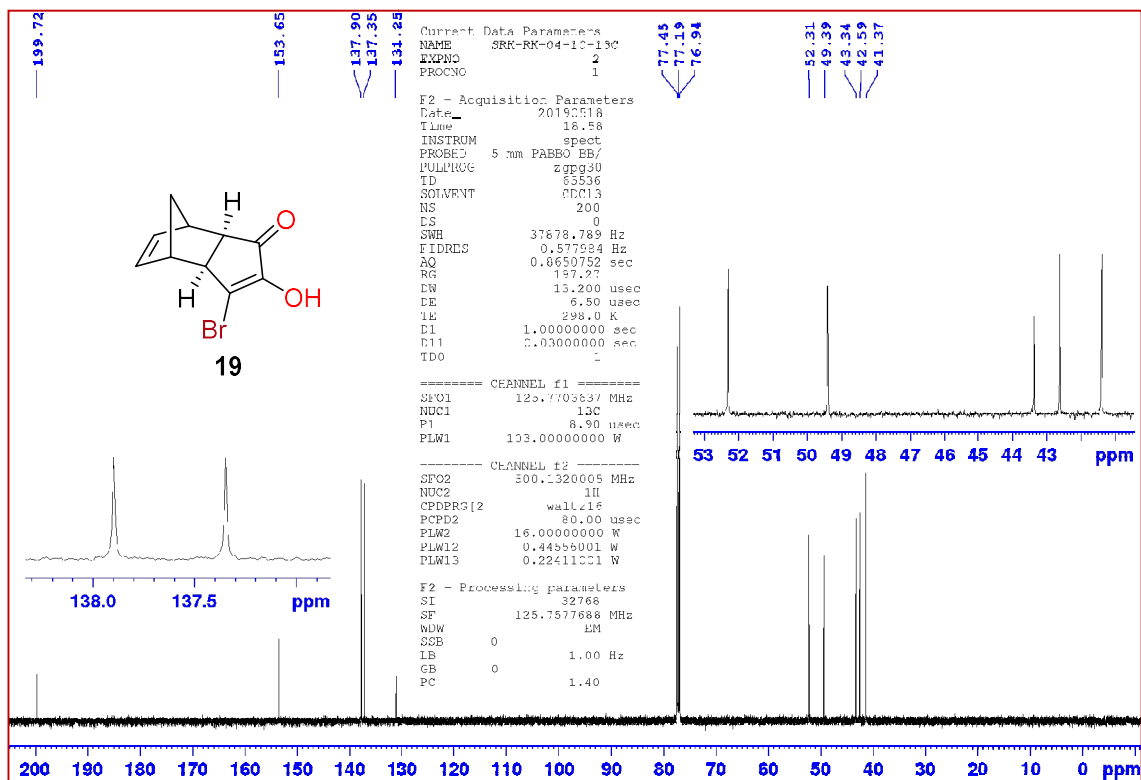
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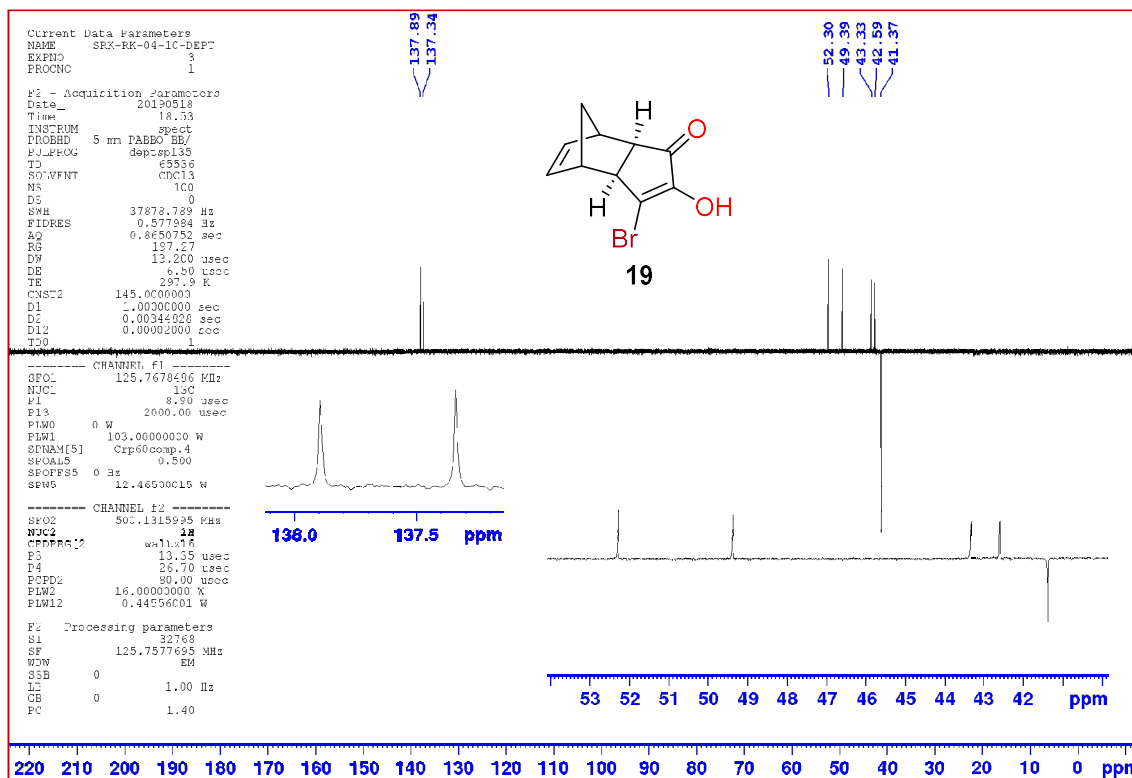
<sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) of 19



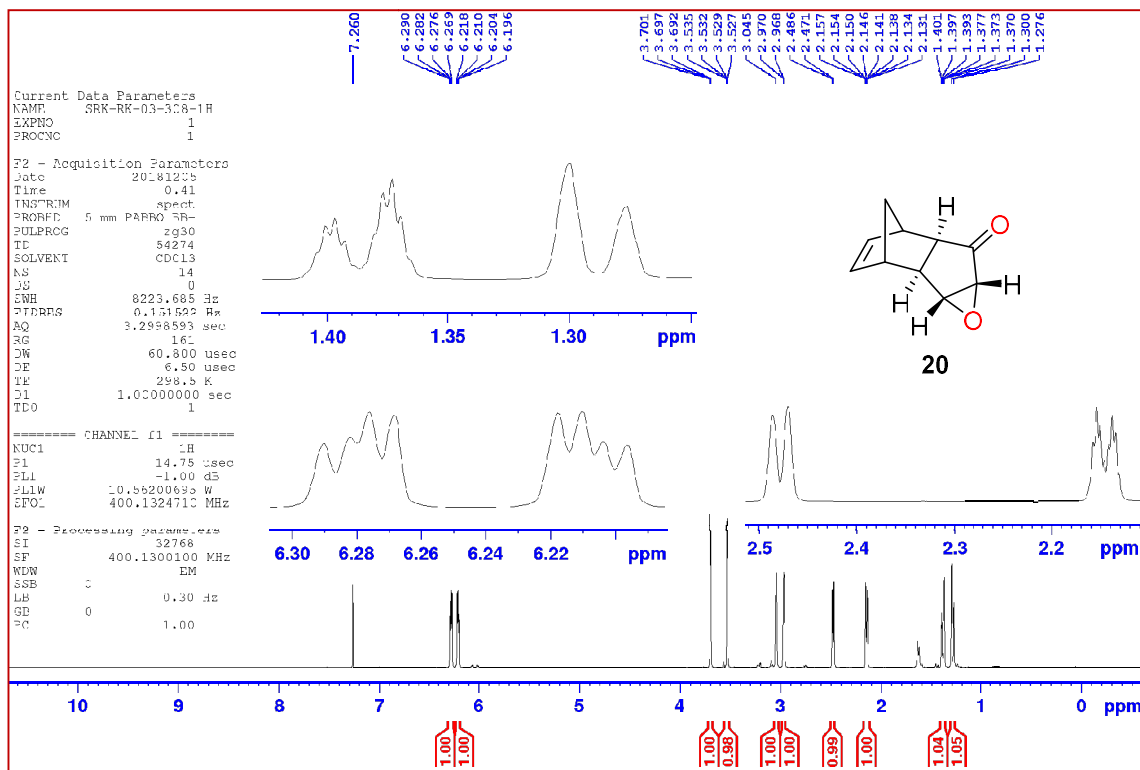
<sup>13</sup>C{<sup>1</sup>H} NMR (125 MHz, CDCl<sub>3</sub>) of 19



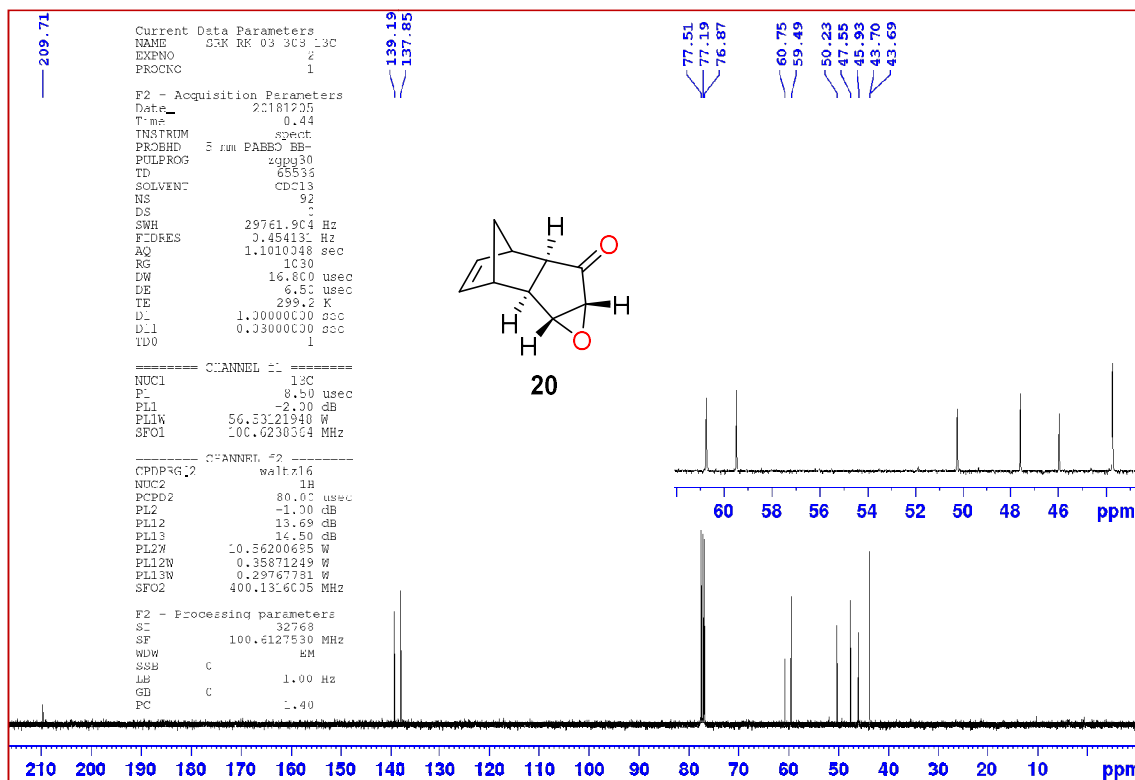
$^{13}\text{C}\{^1\text{H}\}$ -DEPT-135 NMR (125 MHz,  $\text{CDCl}_3$ ) of **19**



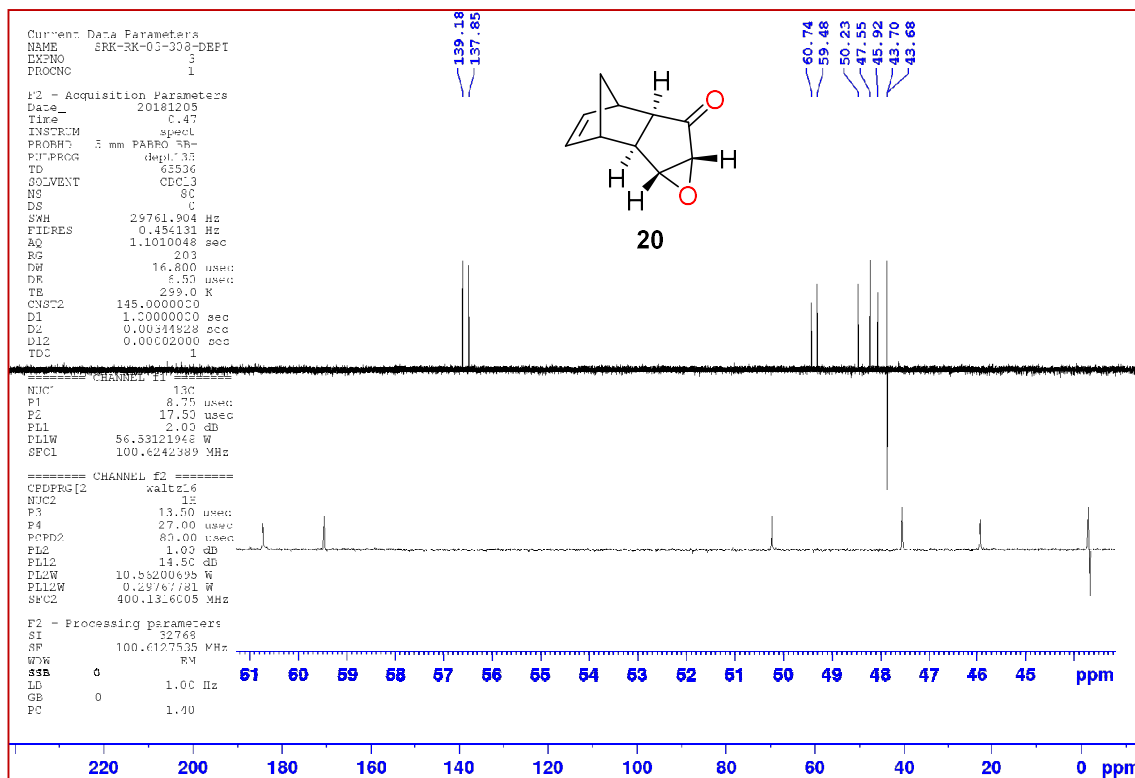
$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) of **20**



$^{13}\text{C}\{^1\text{H}\}$  NMR (100 MHz,  $\text{CDCl}_3$ ) of **20**

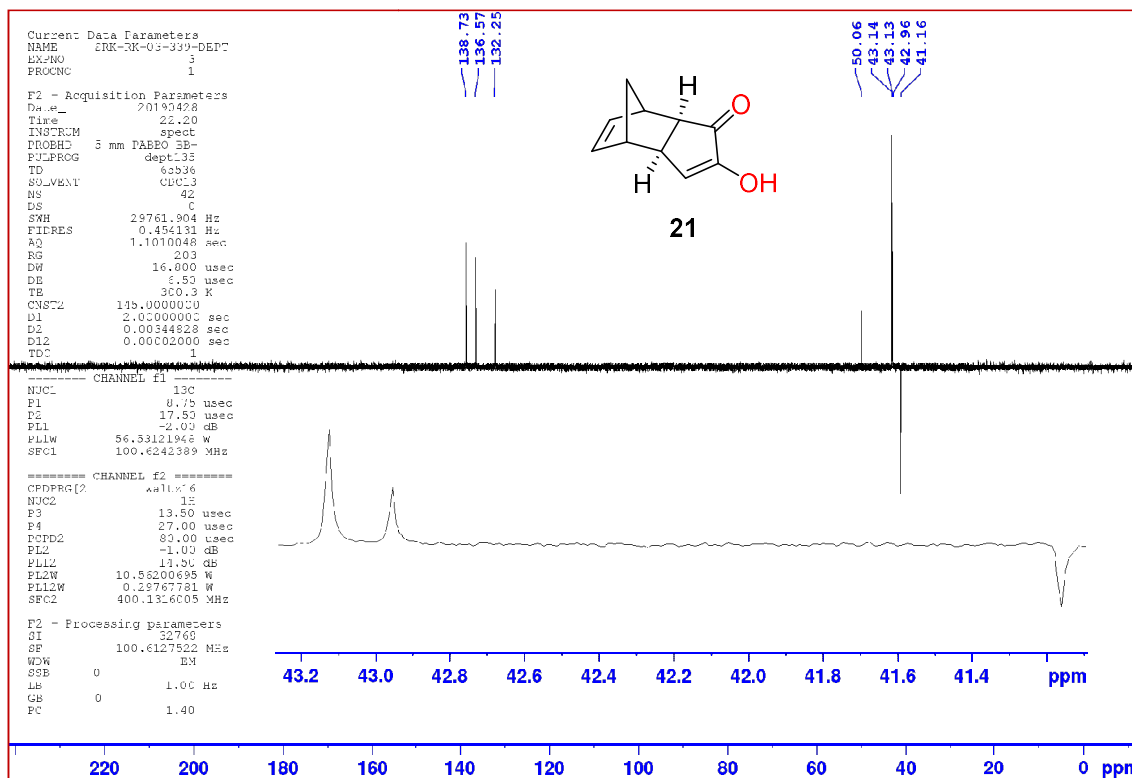


$^{13}\text{C}\{^1\text{H}\}$ -DEPT-135 NMR (100 MHz,  $\text{CDCl}_3$ ) of **20**

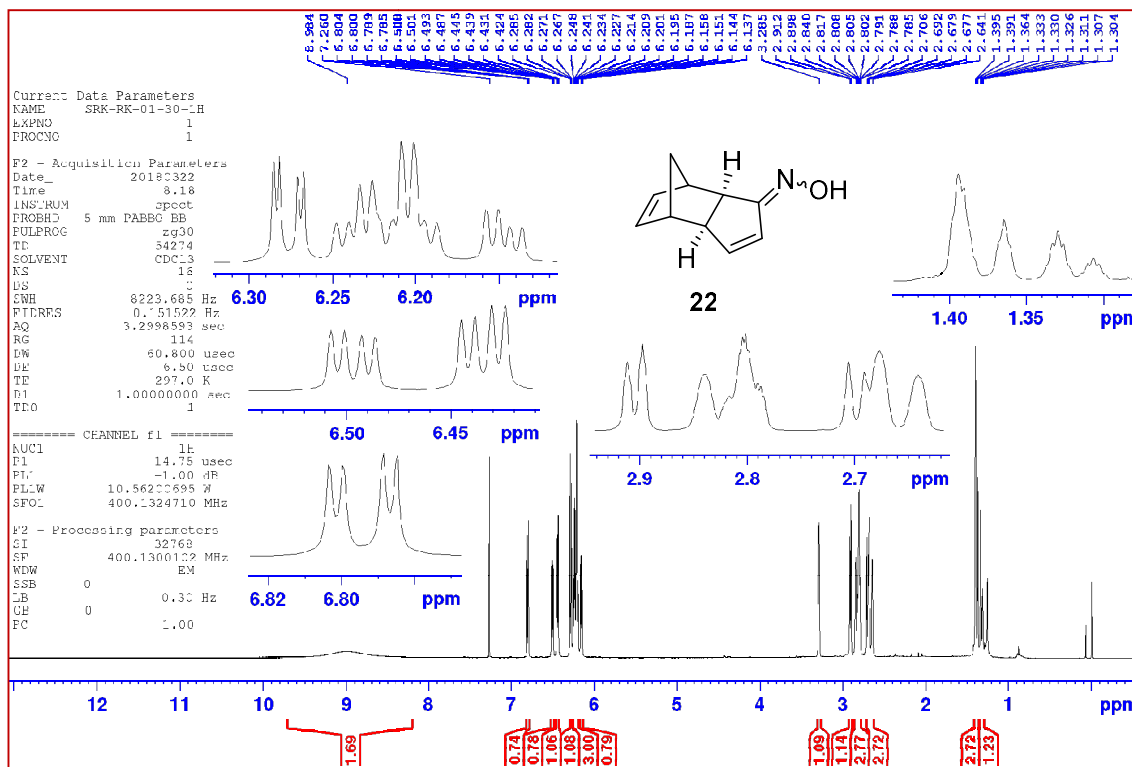




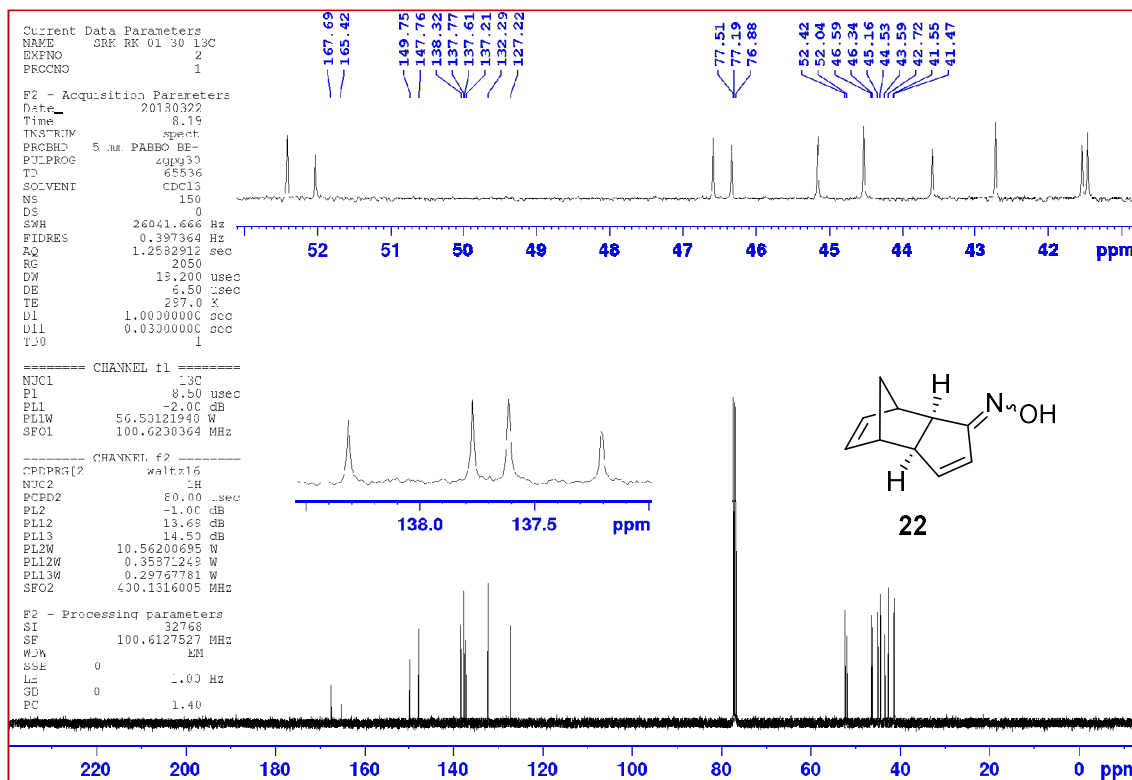
<sup>13</sup>C{<sup>1</sup>H}-DEPT-135 NMR (100 MHz, CDCl<sub>3</sub>) of **21**



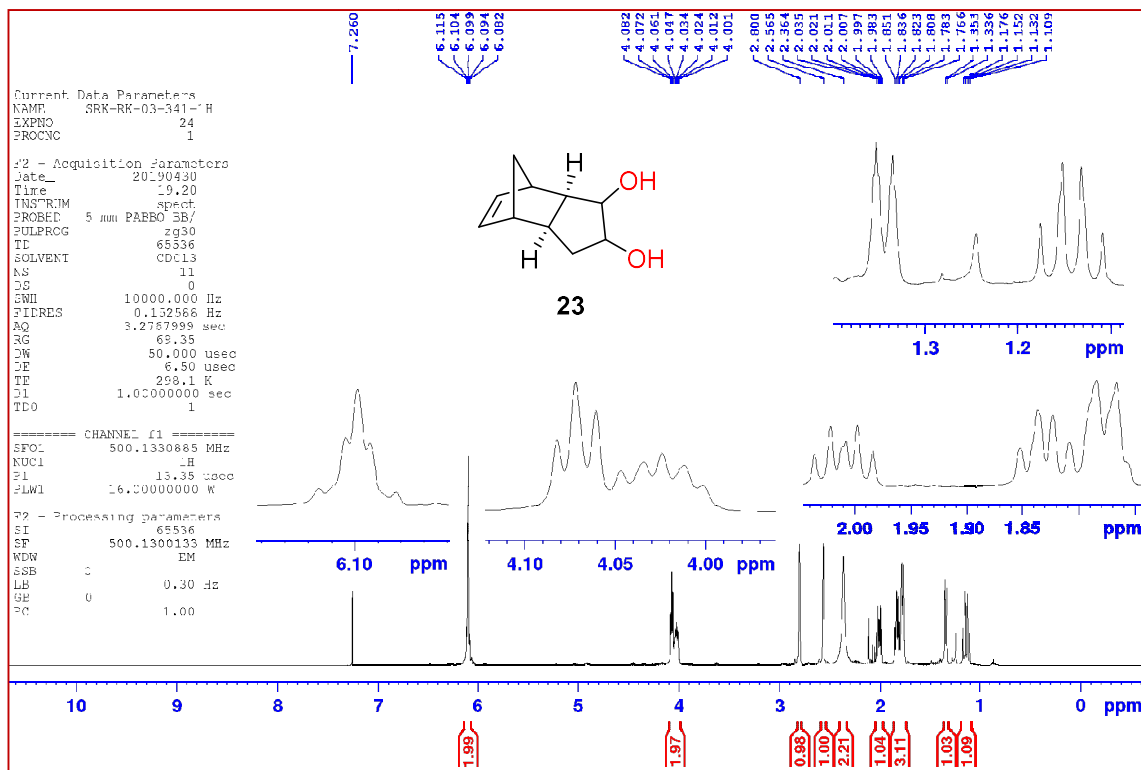
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of **22**



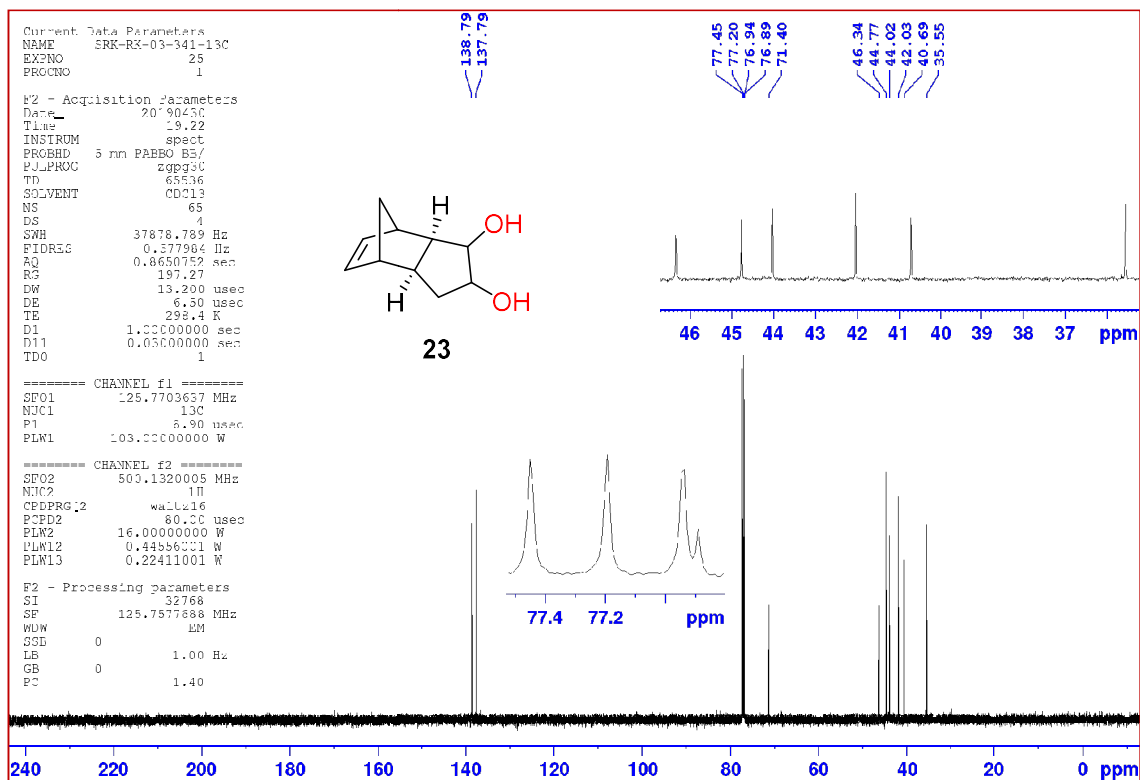
$^{13}\text{C}\{^1\text{H}\}$  NMR (100 MHz,  $\text{CDCl}_3$ ) of **22**



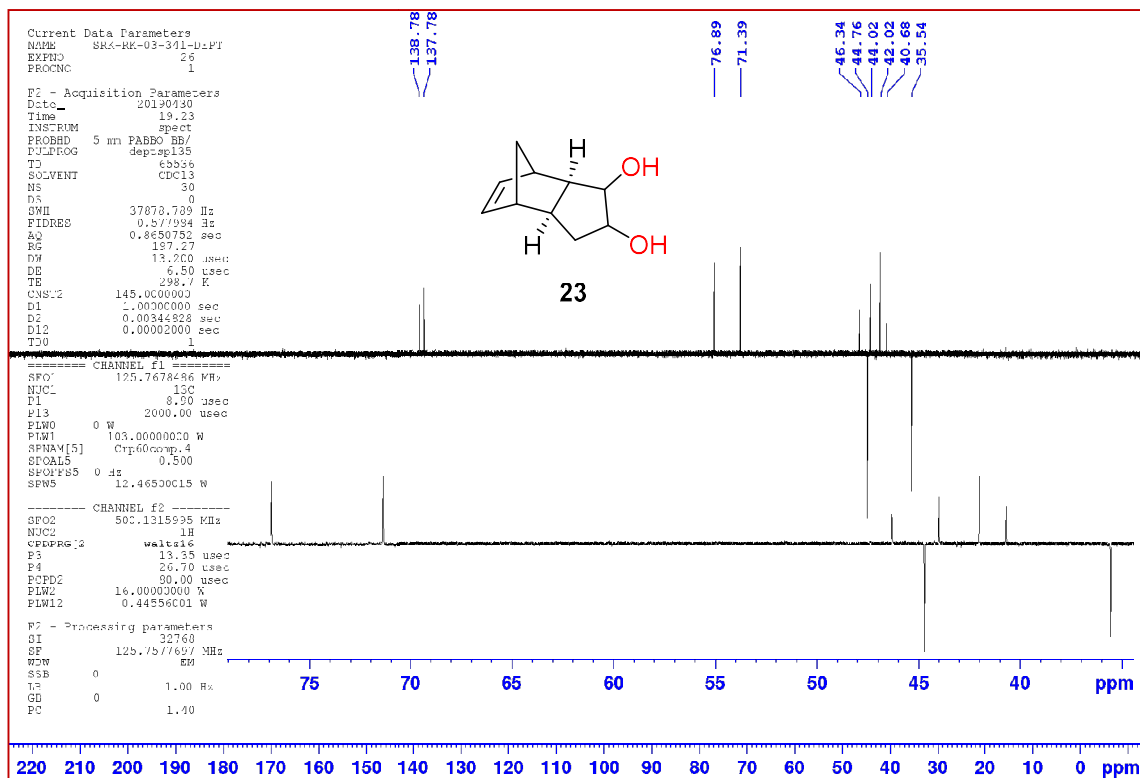
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) of **23**



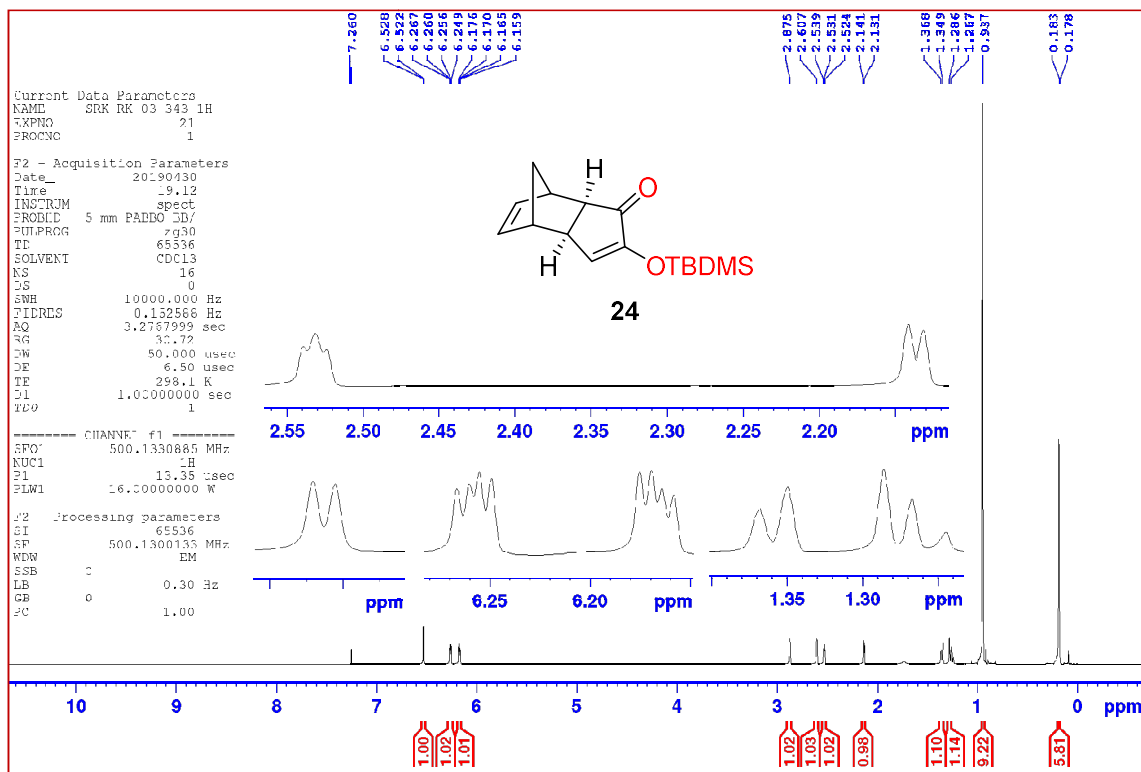
$^{13}\text{C}\{^1\text{H}\}$  NMR (125 MHz,  $\text{CDCl}_3$ ) of **23**



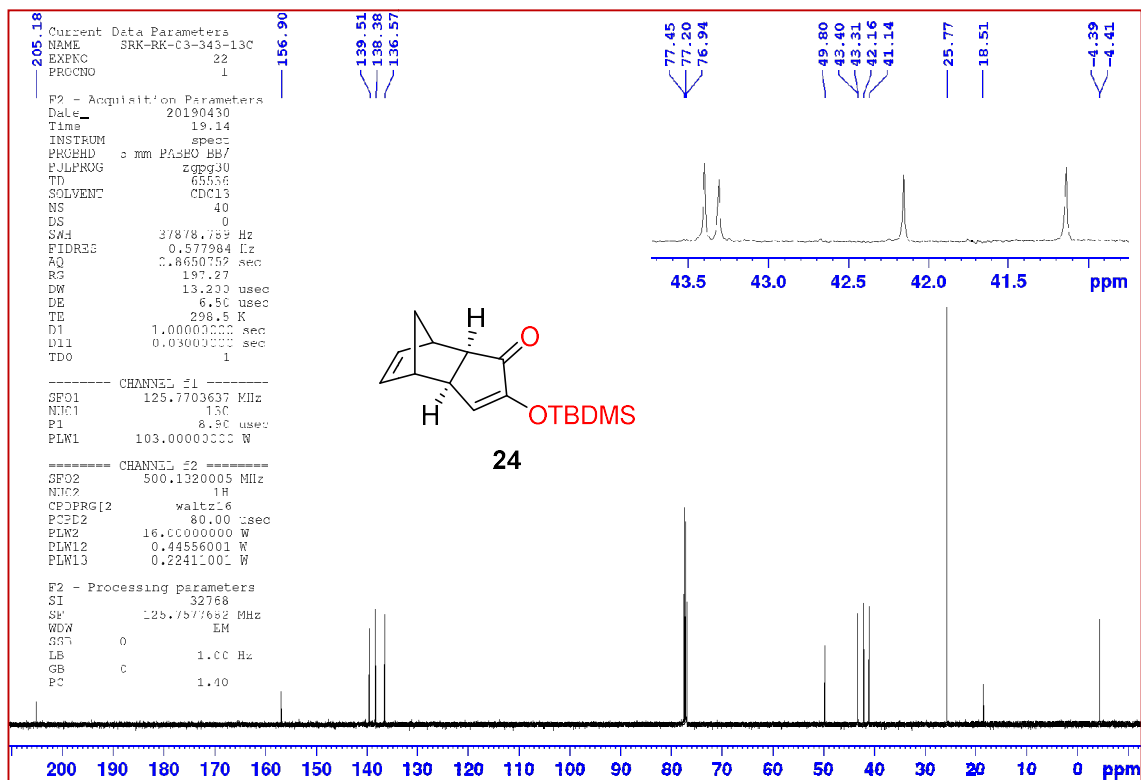
$^{13}\text{C}\{^1\text{H}\}$ -DEPT NMR (125 MHz,  $\text{CDCl}_3$ ) of **23**



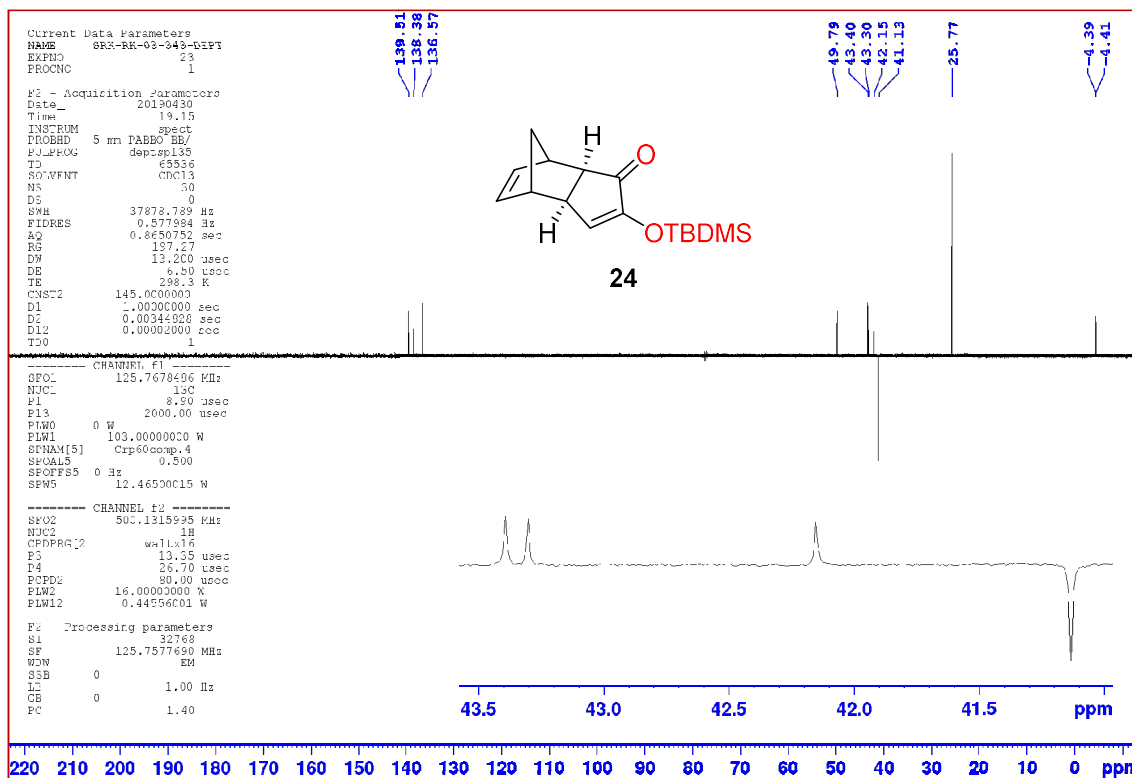
<sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 24



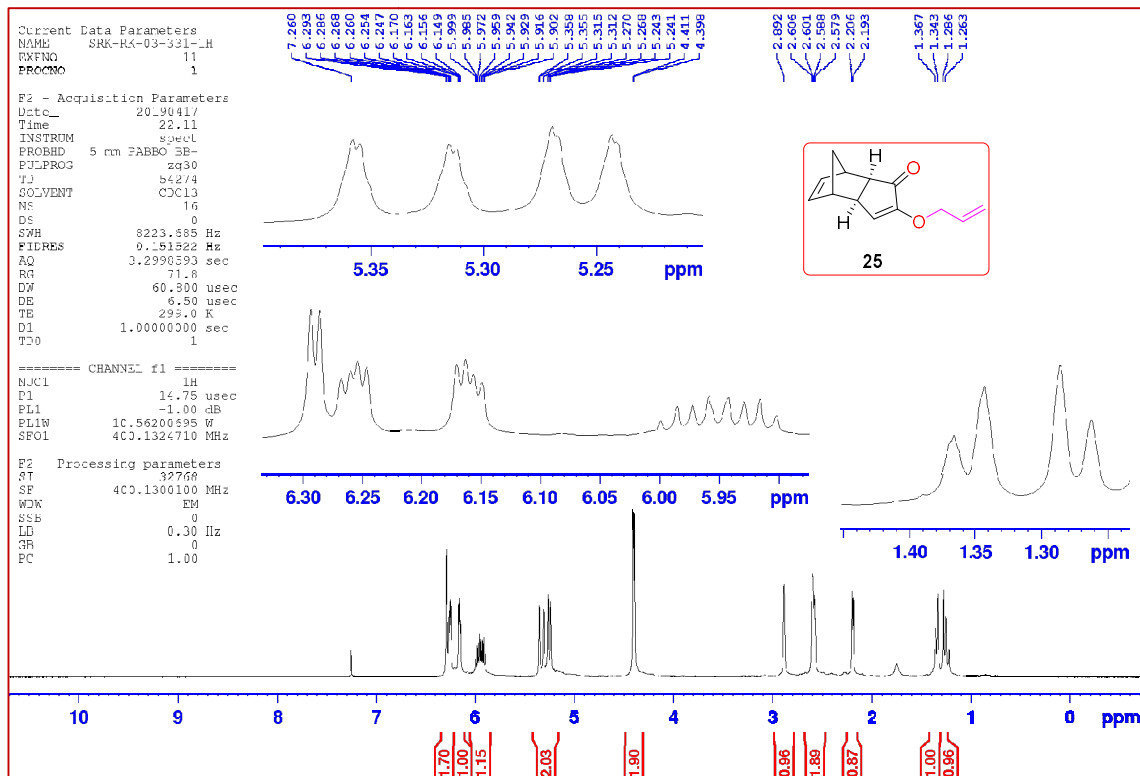
<sup>13</sup>C{<sup>1</sup>H} NMR (400 MHz, CDCl<sub>3</sub>) of 24



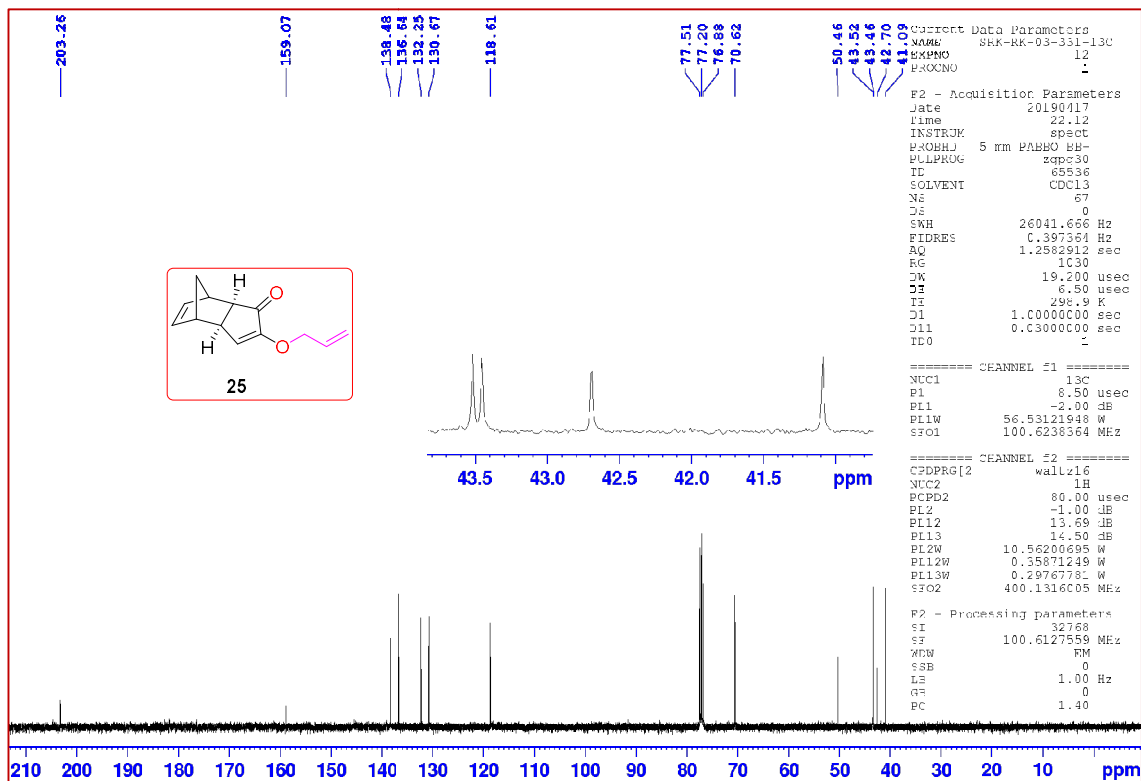
$^{13}\text{C}\{^1\text{H}\}$ -DEPT-135 NMR (400 MHz,  $\text{CDCl}_3$ ) of 24



$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) of 25



$^{13}\text{C}\{^1\text{H}\}$  NMR (400 MHz,  $\text{CDCl}_3$ ) of **25**



$^{13}\text{C}\{^1\text{H}\}$ -DEPT-135 NMR (400 MHz,  $\text{CDCl}_3$ ) of **25**

