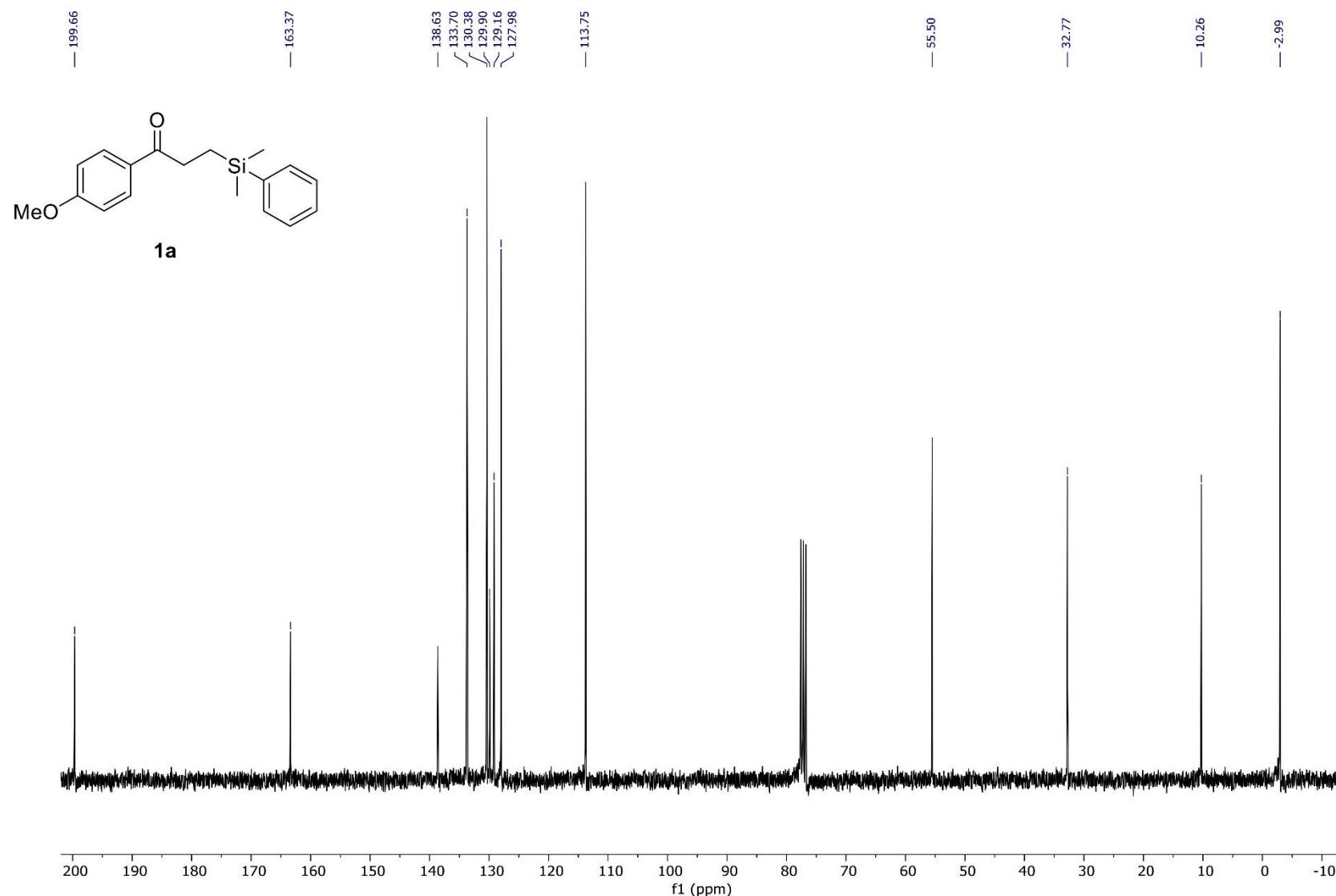
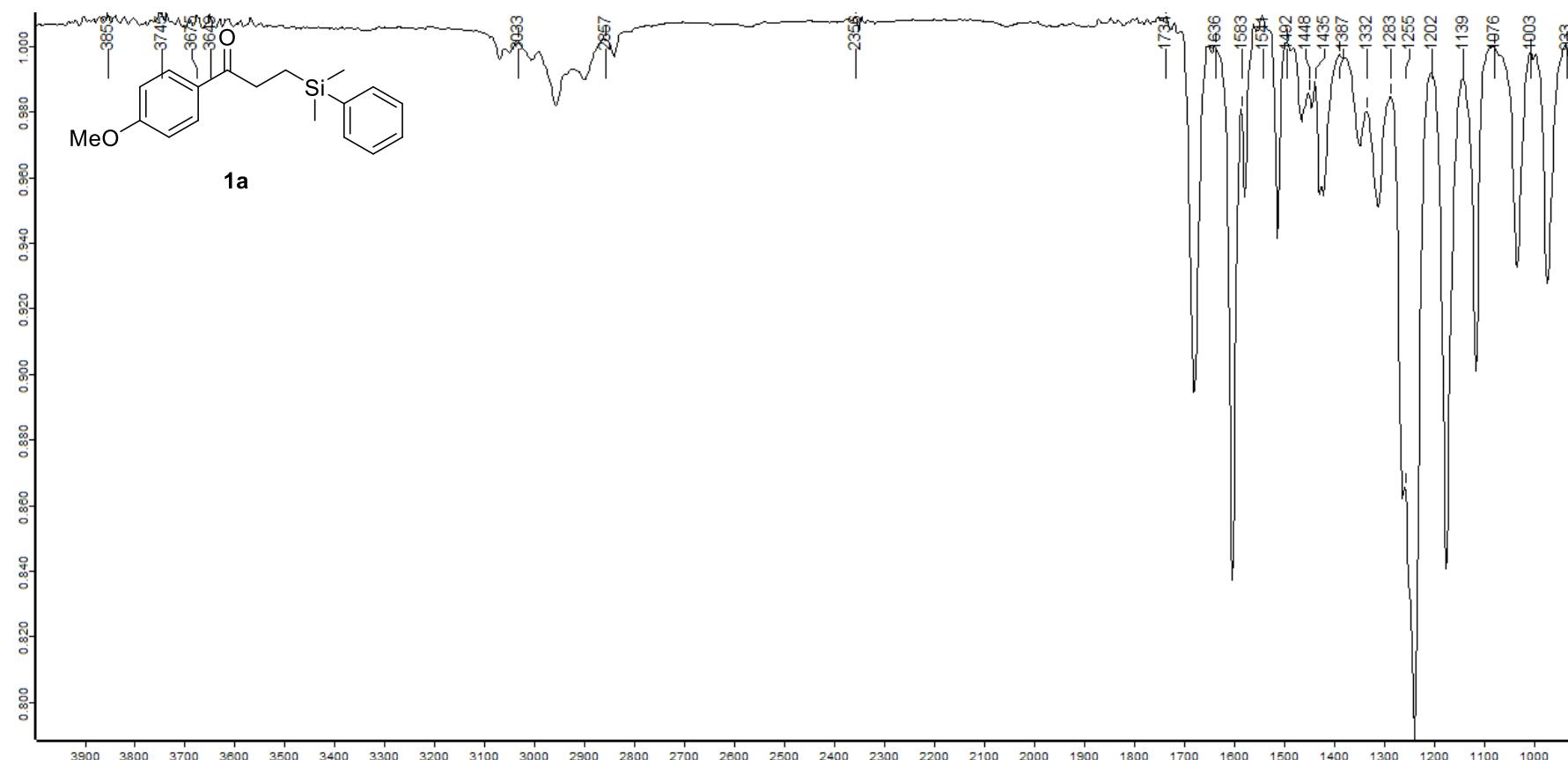


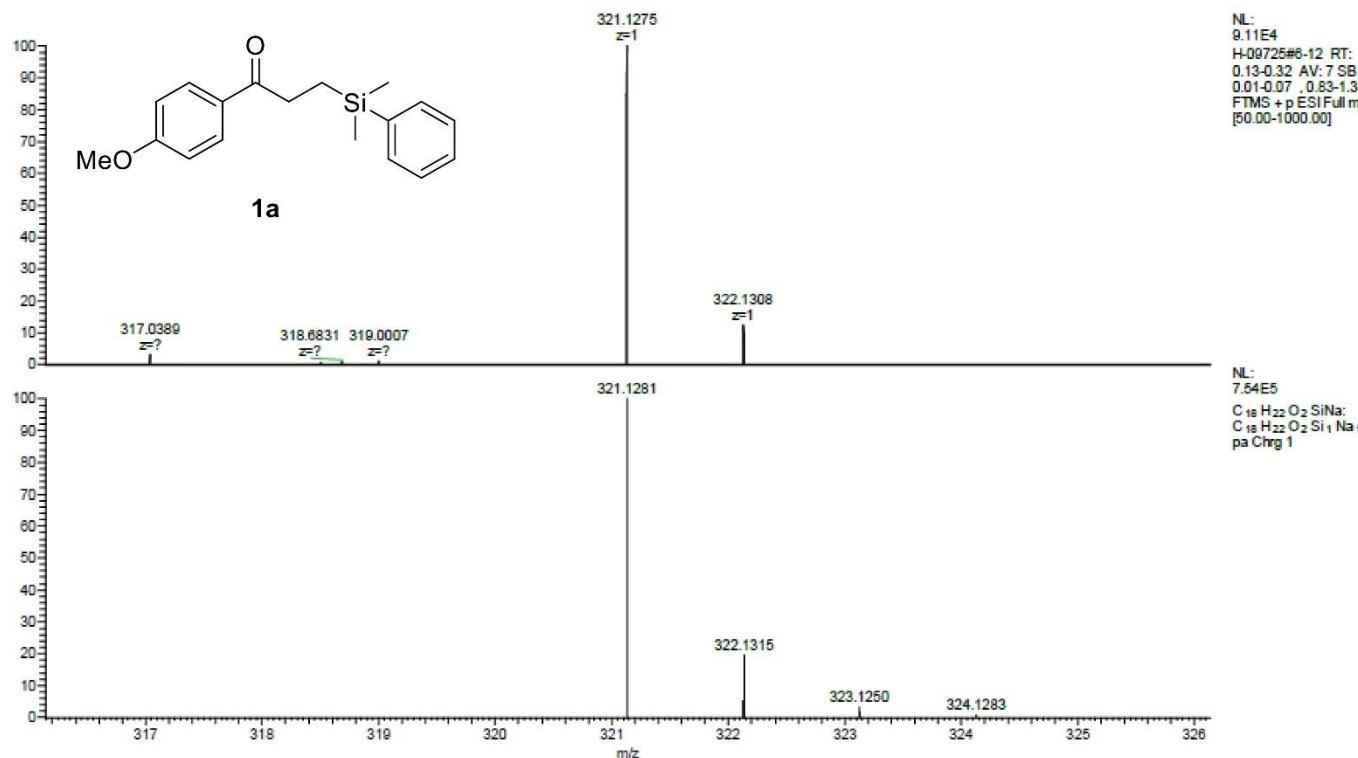
**Figure S1**  $^1\text{H}$  NMR spectrum ( $\text{CDCl}_3$ , 300 MHz) for compound **1a**.



**Figure S2**  $^{13}\text{C}$  NMR spectrum ( $\text{CDCl}_3$ , 75 MHz) for compound **1a**.



**Figure S3** IR spectrum (Diamond ATR) for compound **1a**.

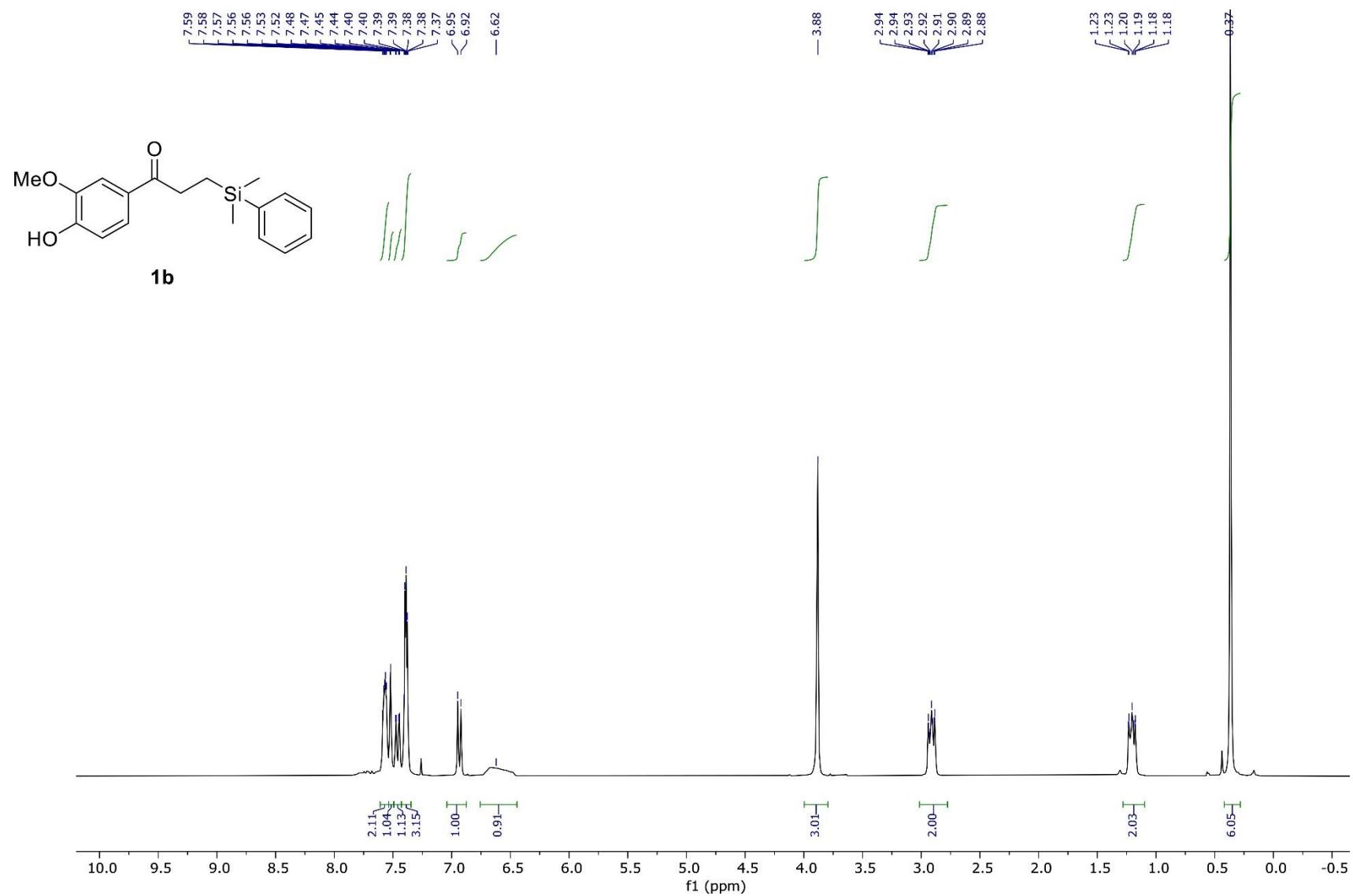


## Experimental/theoretical isotopic pattern MS spectrum

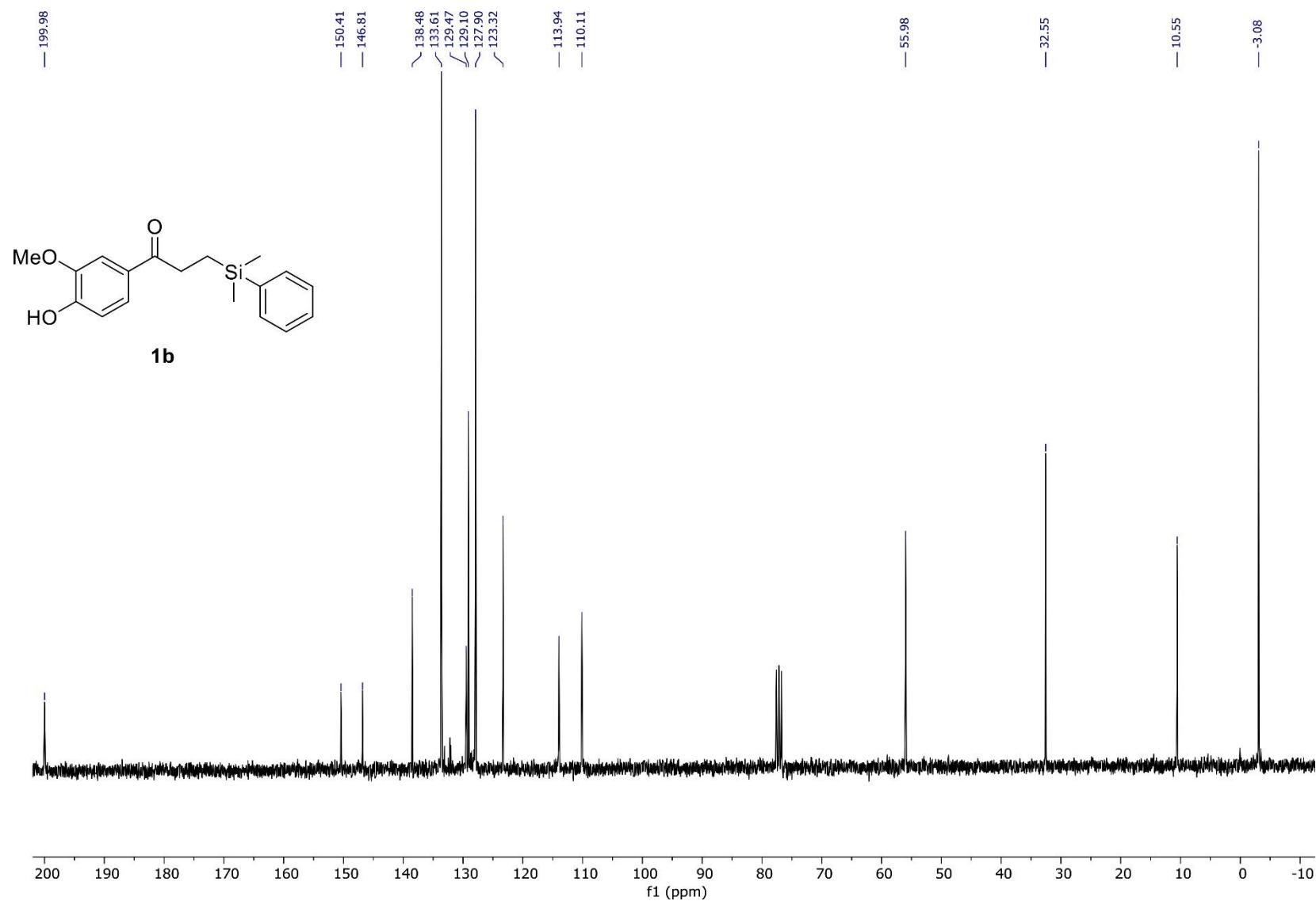
Error = -2.0 ppm; Relative Intensity (%) 100

HRMS (ESI) m/z: [M+Na]<sup>+</sup> Calcd for C<sub>18</sub>H<sub>22</sub>O<sub>2</sub>SiNa 321.1281. Found 321.1275; (Error: -2.0 ppm).

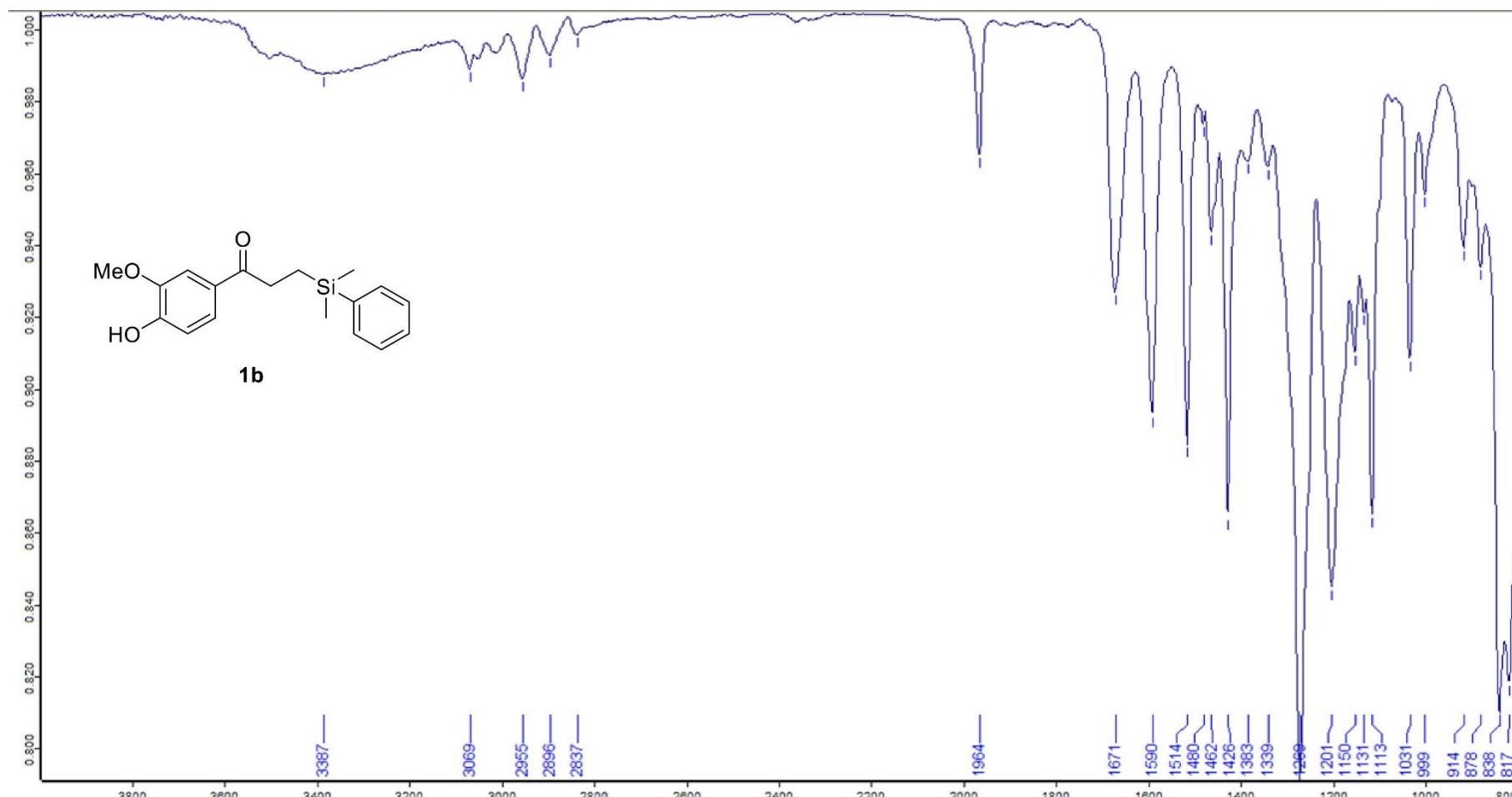
Figure S4 HRMS spectrum (ESI) for compound **1a**.



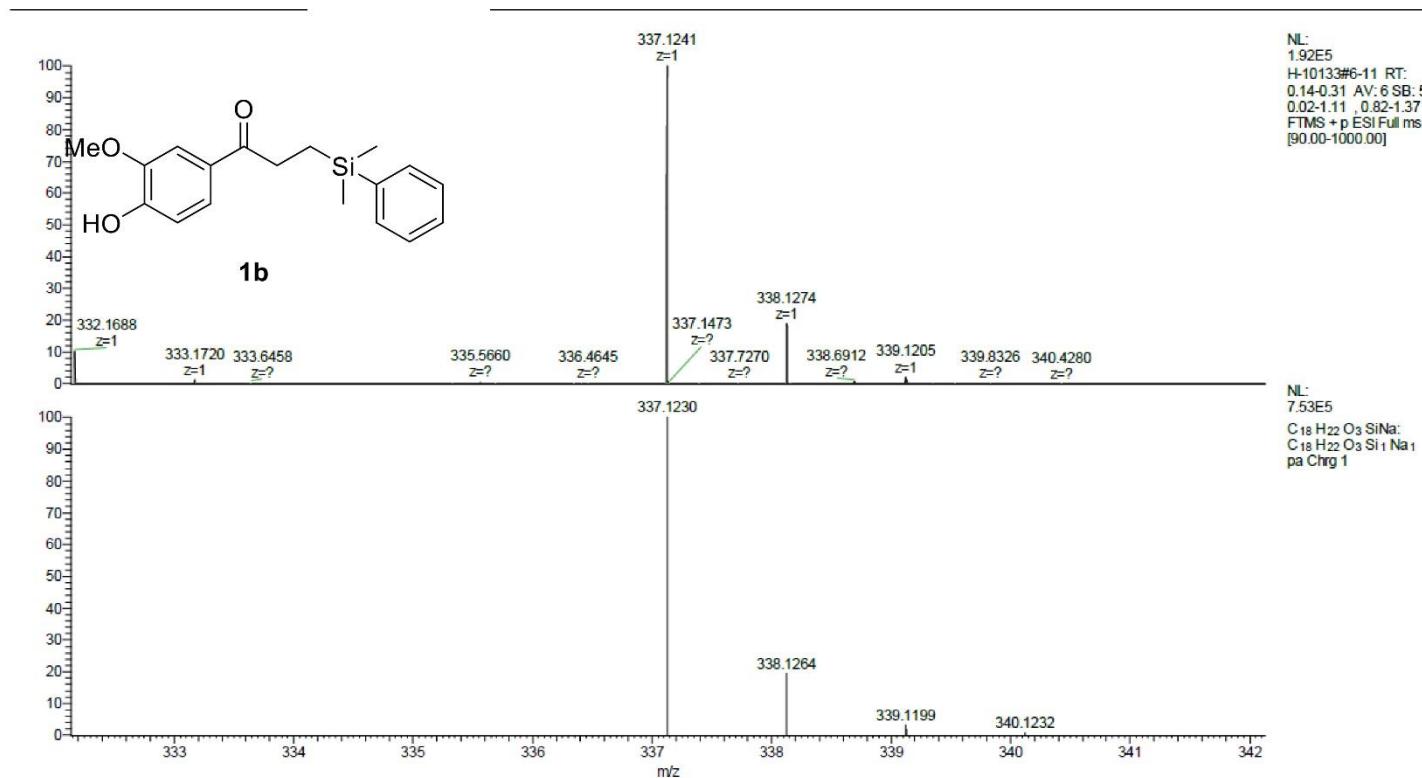
**Figure S5**  $^1\text{H}$  NMR spectrum ( $\text{CDCl}_3$ , 300 MHz) for compound **1b**.



**Figure S6**  $^{13}\text{C}$  NMR spectrum ( $\text{CDCl}_3$ , 75 MHz) for compound **1b**.



**Figure S7** IR spectrum (Diamond ATR) for compound **1b**.

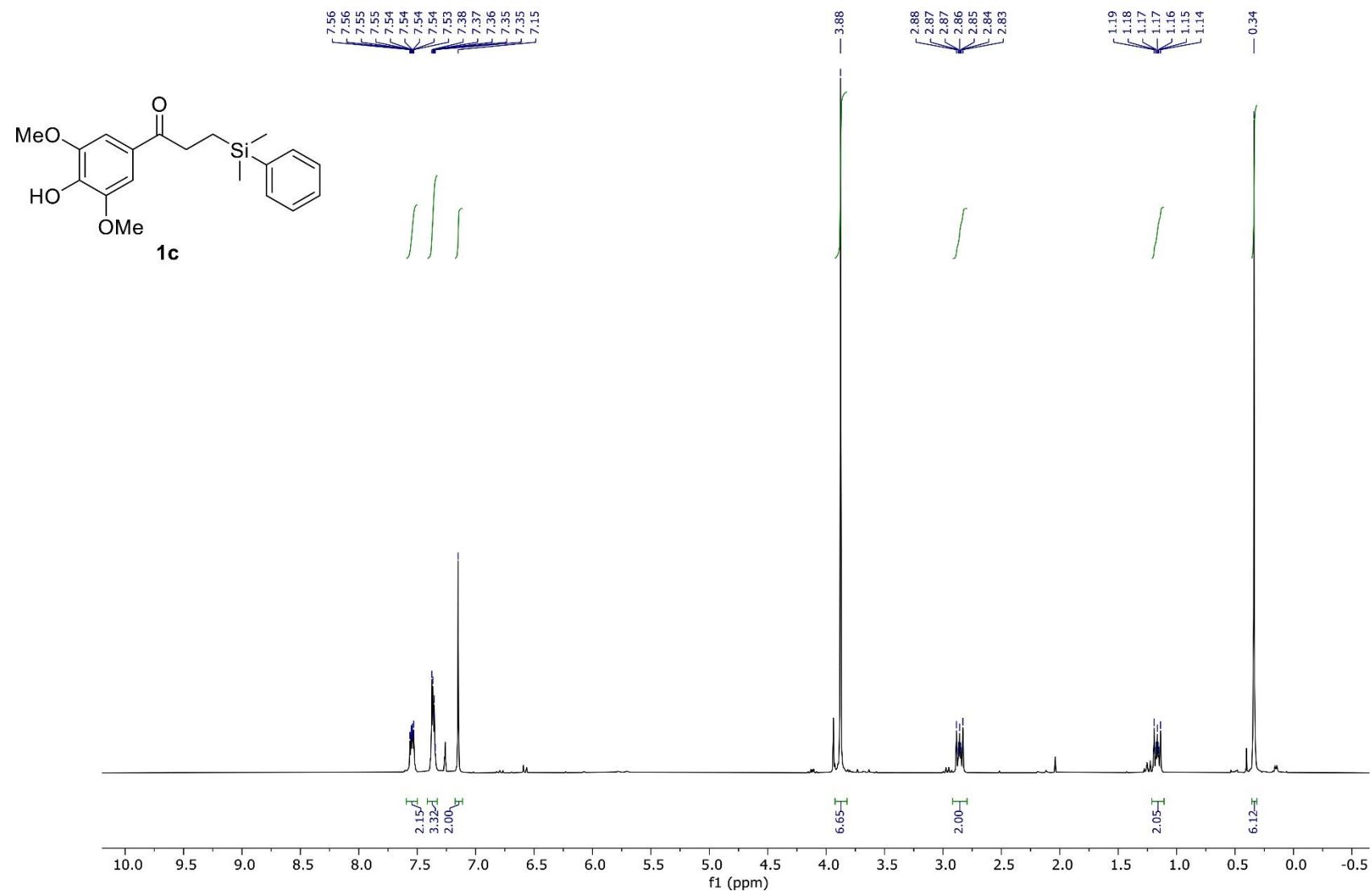


## Experimental/theoretical isotopic pattern MS spectrum

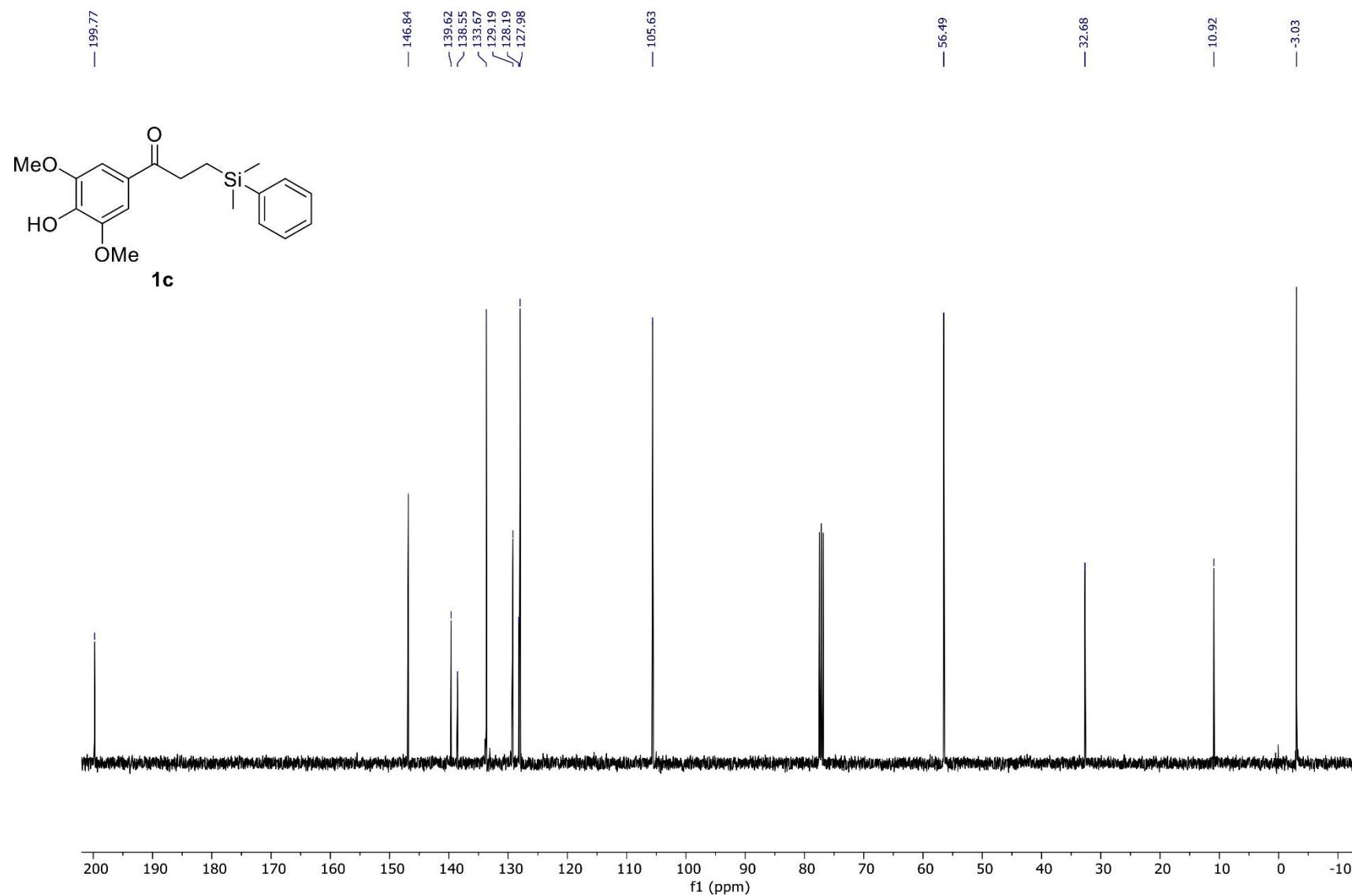
Error = 3.1 ppm; Relative Intensity (%) 100

HRMS (ESI) m/z: [M+Na]<sup>+</sup> Calcd for C<sub>18</sub>H<sub>22</sub>O<sub>3</sub>SiNa 337.1230. Found 337.1241; (Error: 3.1 ppm).

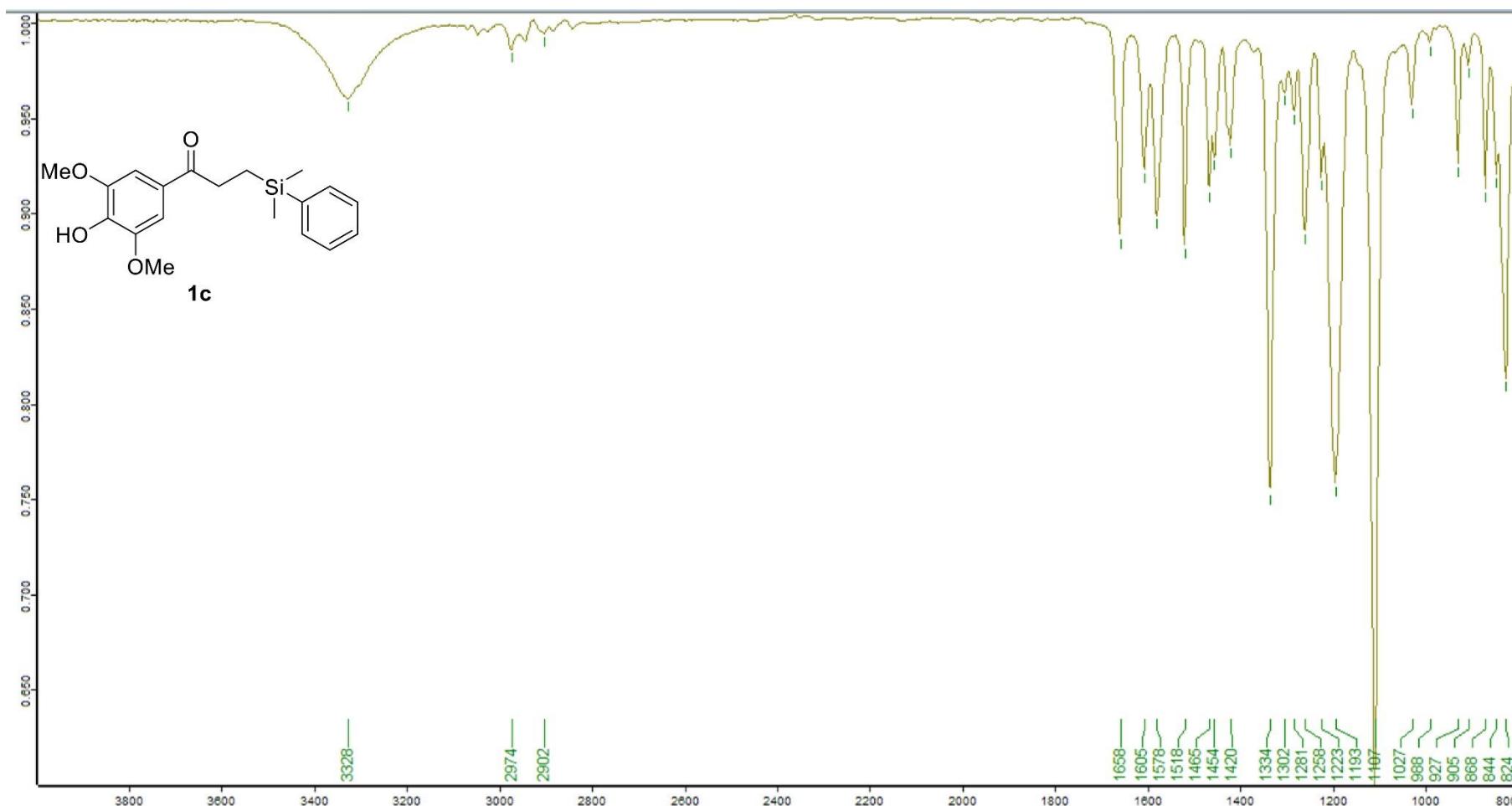
Figure S8 HRMS spectrum (ESI) for compound **1b**.



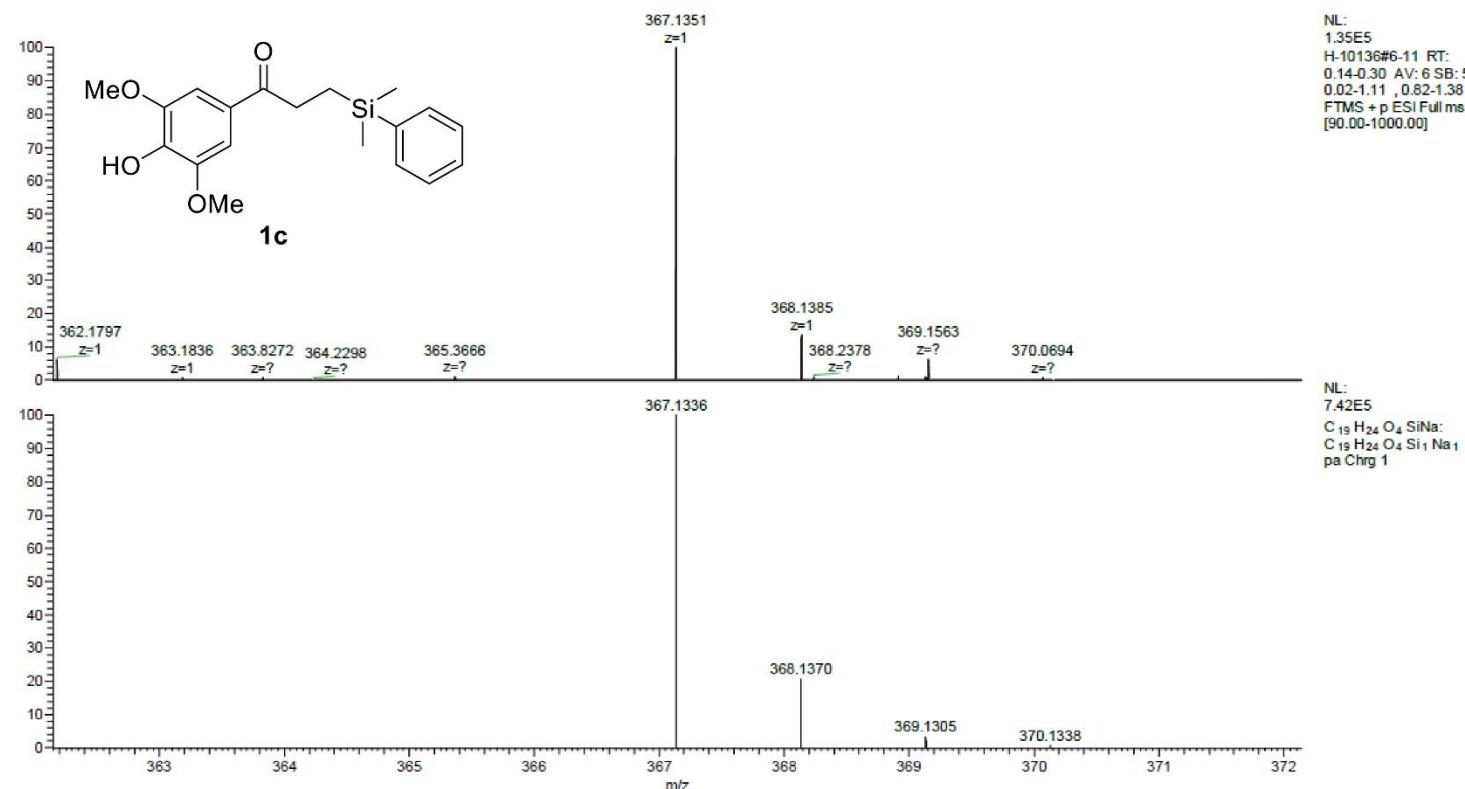
**Figure S9**  $^1\text{H}$  NMR spectrum ( $\text{CDCl}_3$ , 300 MHz) for compound **1c**.



**Figure S10**  $^{13}\text{C}$  NMR spectrum ( $\text{CDCl}_3$ , 75 MHz) for compound **1c**.



**Figure S11** IR spectrum (Diamond ATR) for compound **1c**.

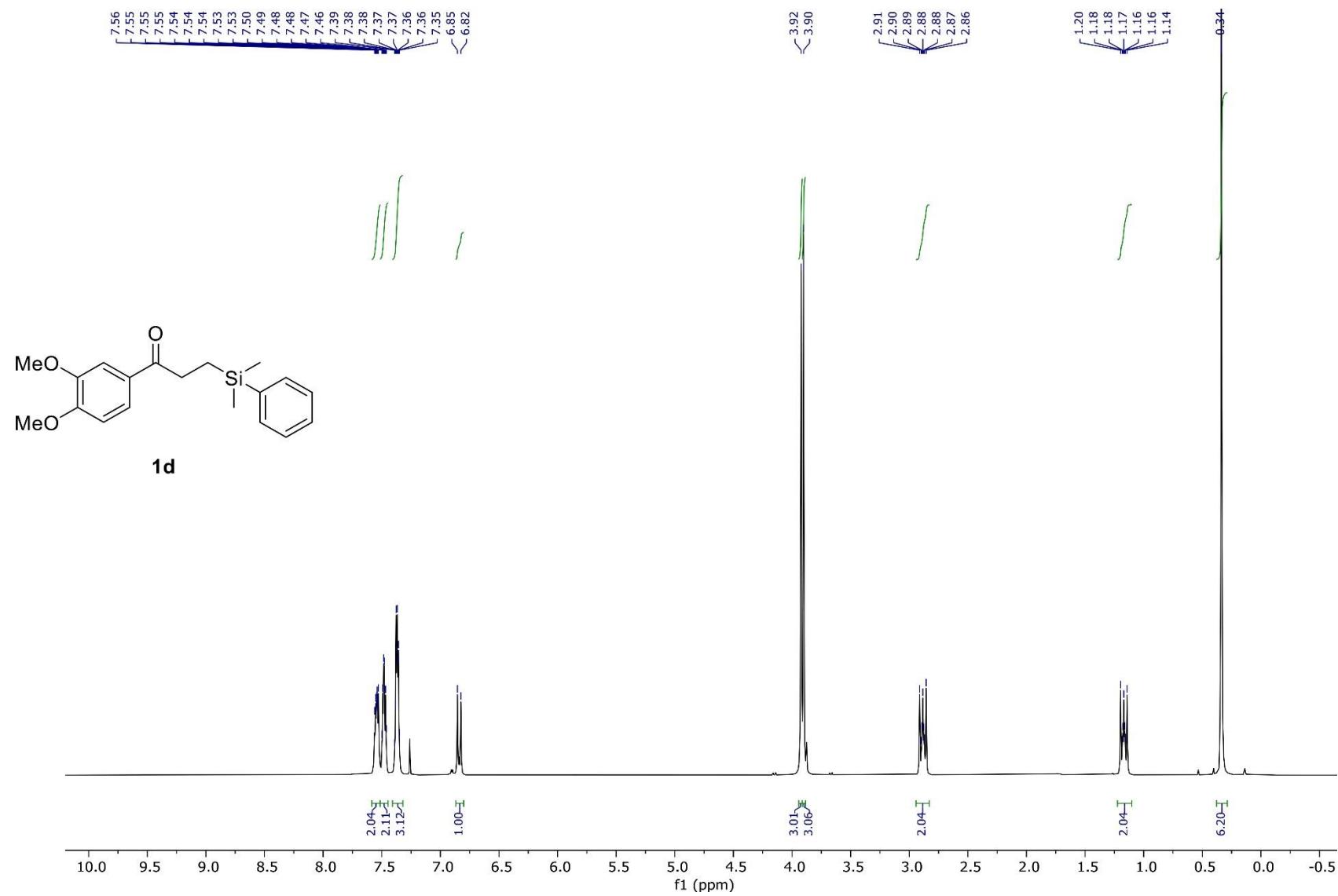


## Experimental/theoretical isotopic pattern MS spectrum

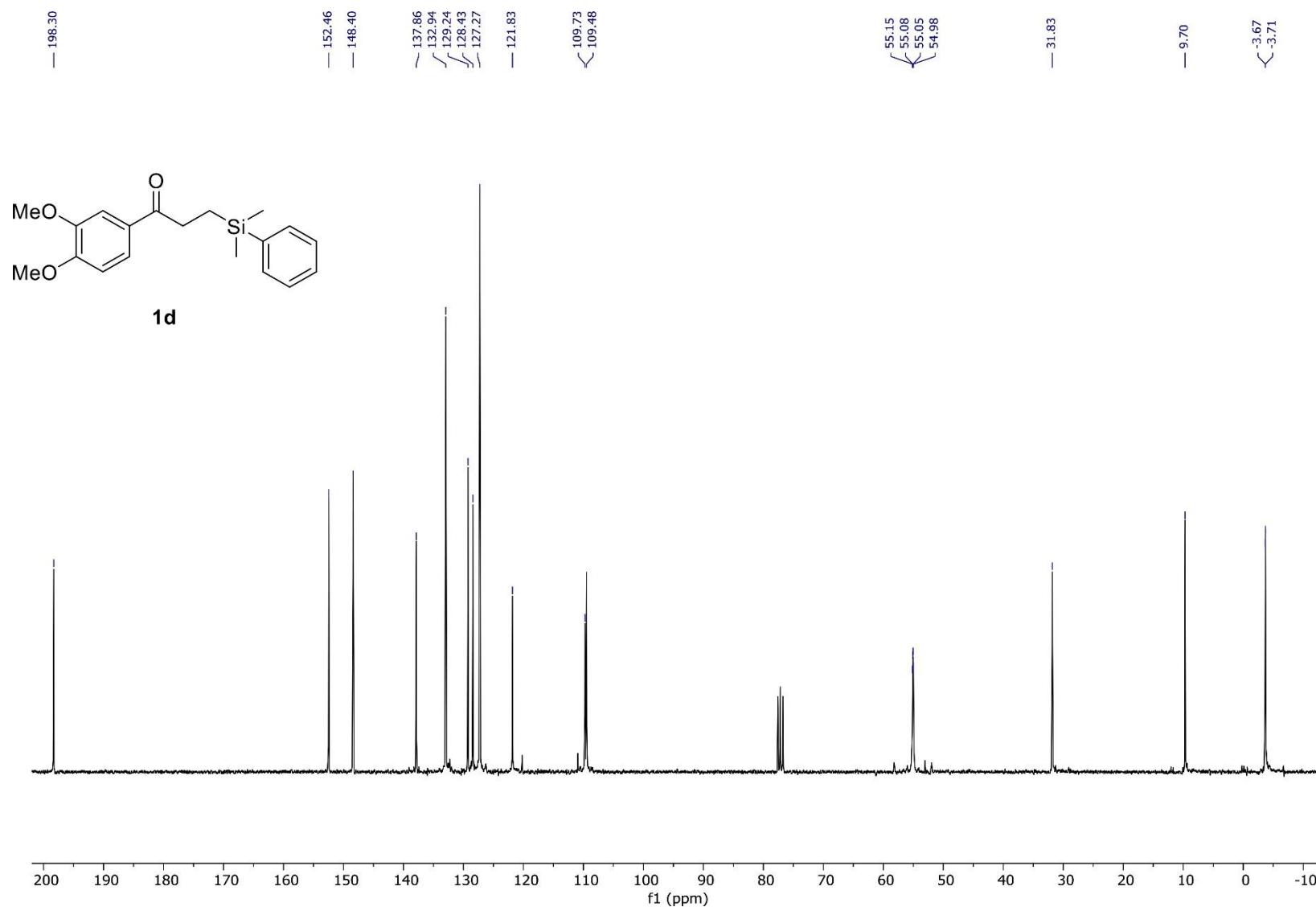
Error = 4.1 ppm; Relative Intensity (%) 100

HRMS (ESI)  $m/z$ :  $[M+Na]^+$  Calcd for  $C_{19}H_{24}O_4SiNa$  367.1336. Found 367.1351; (Error: 4.1 ppm).

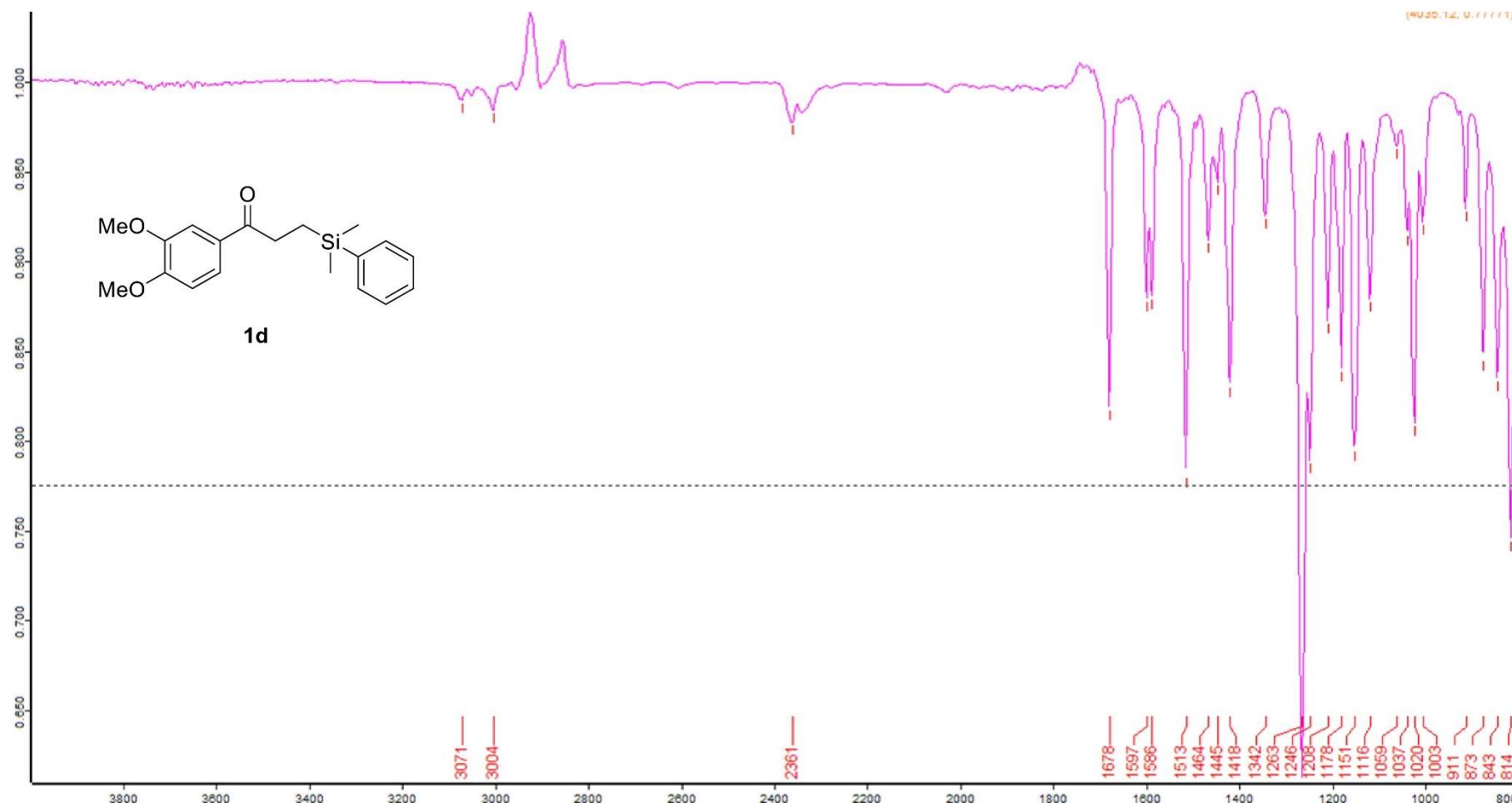
Figure S12 HRMS spectrum (ESI) for compound **1c**.



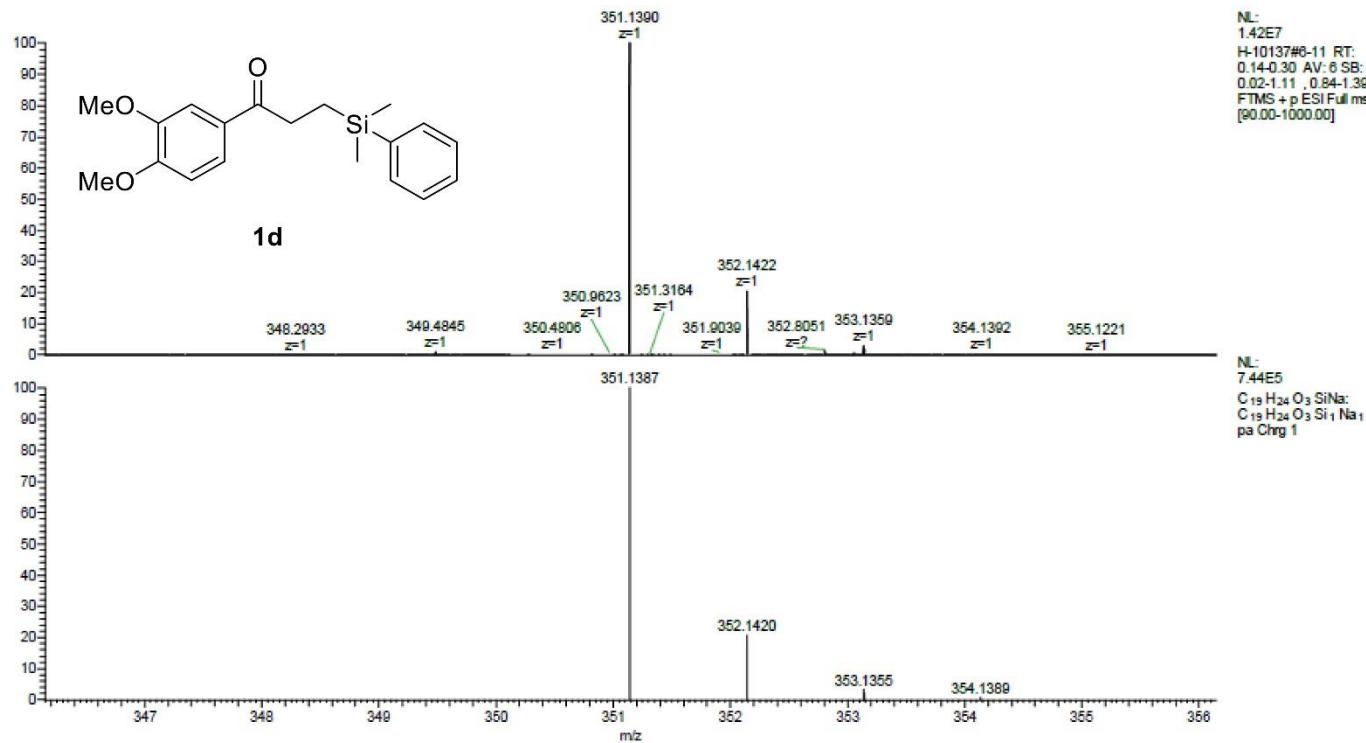
**Figure S13**  $^1\text{H}$  NMR spectrum ( $\text{CDCl}_3$ , 300 MHz) for compound **1d**.



**Figure S14**  $^{13}\text{C}$  NMR spectrum ( $\text{CDCl}_3$ , 75 MHz) for compound **1d**.



**Figure S15** IR spectrum (Diamond ATR) for compound **1d**.

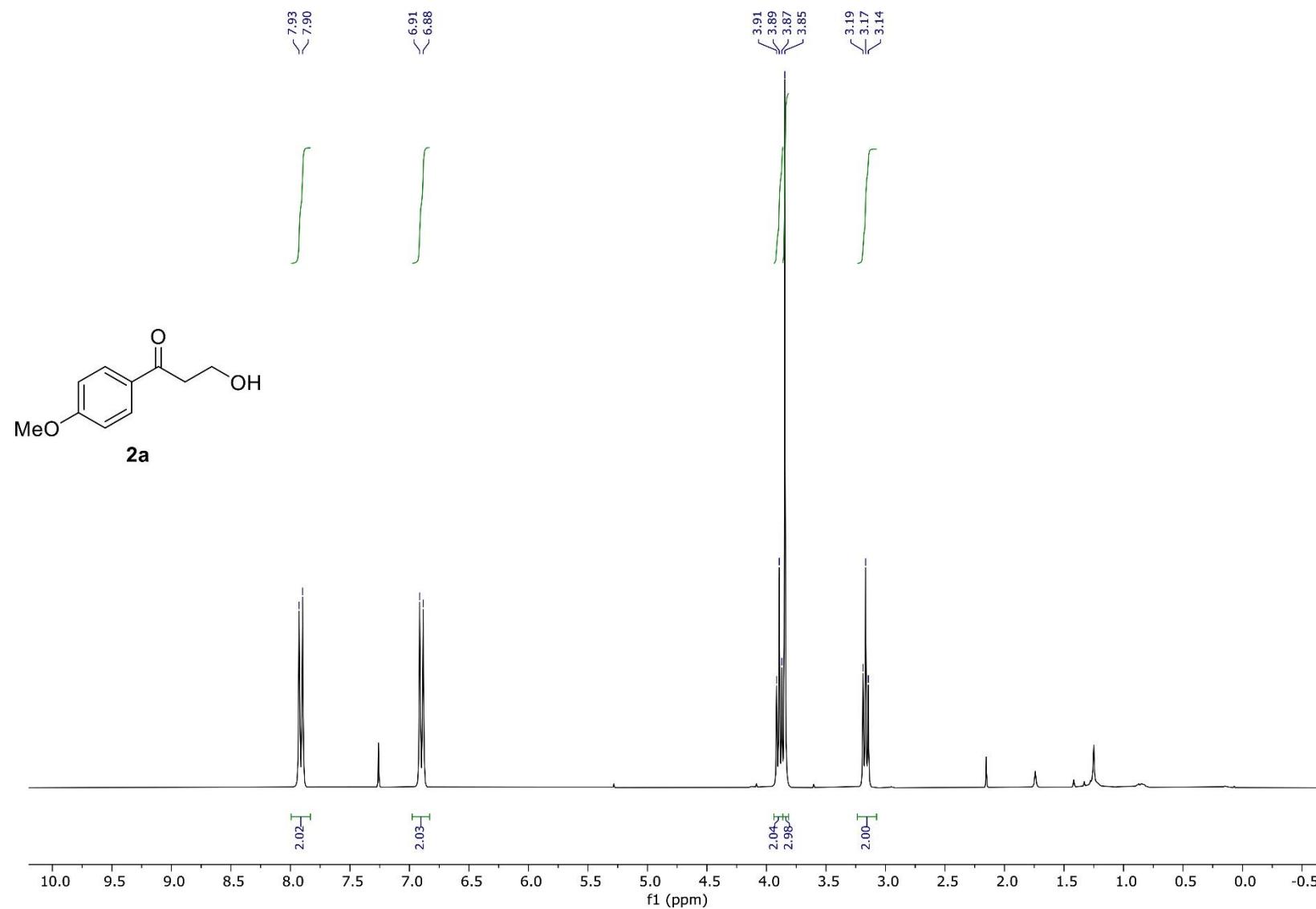


## Experimental/theoretical isotopic pattern MS spectrum

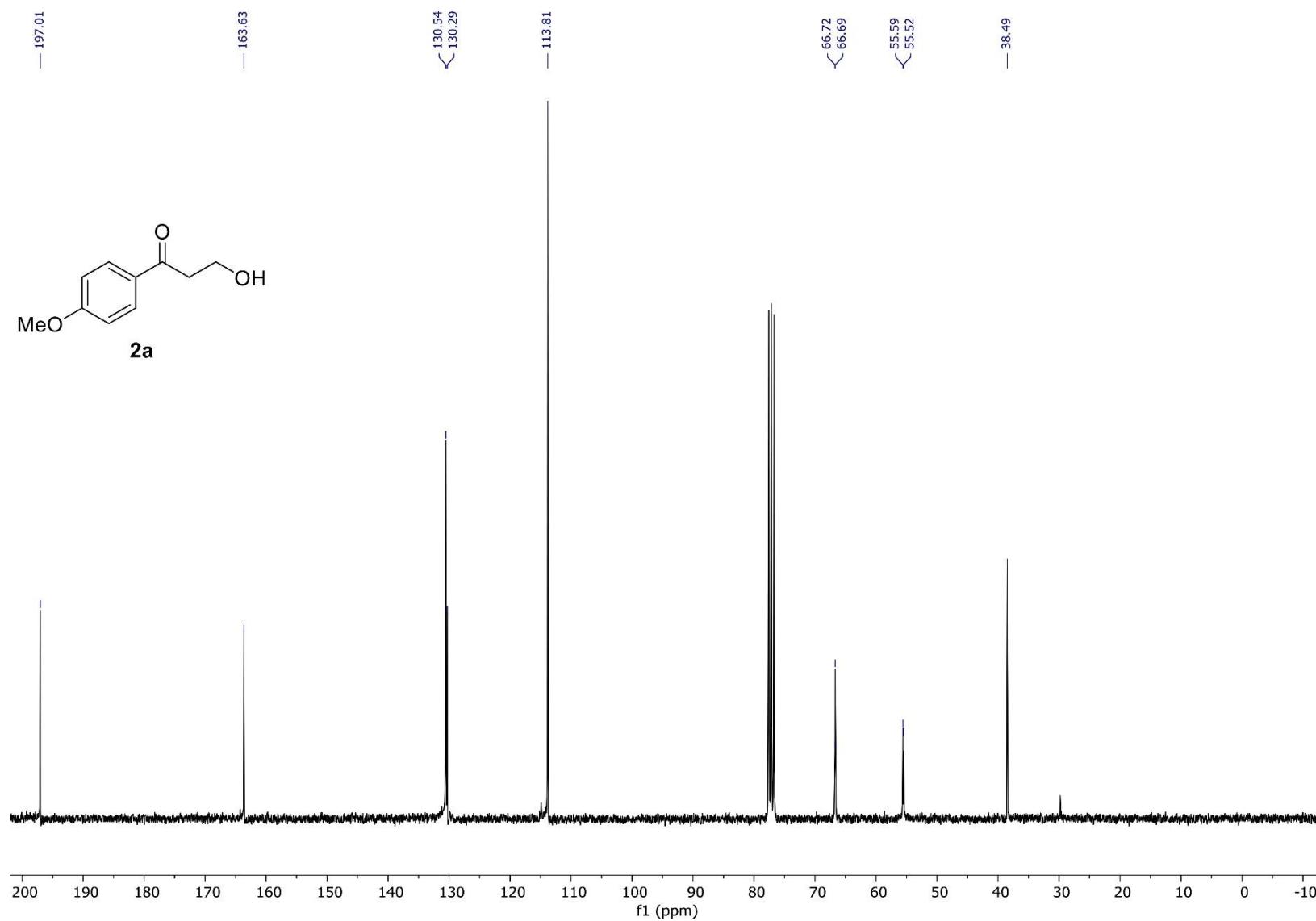
Error = 0.9 ppm; Relative Intensity (%) 100

HRMS (ESI)  $m/z$ :  $[M+Na]^+$  Calcd for  $C_{19}H_{24}O_3SiNa$  351.1387. Found 351.139; (Error: 0.9 ppm).

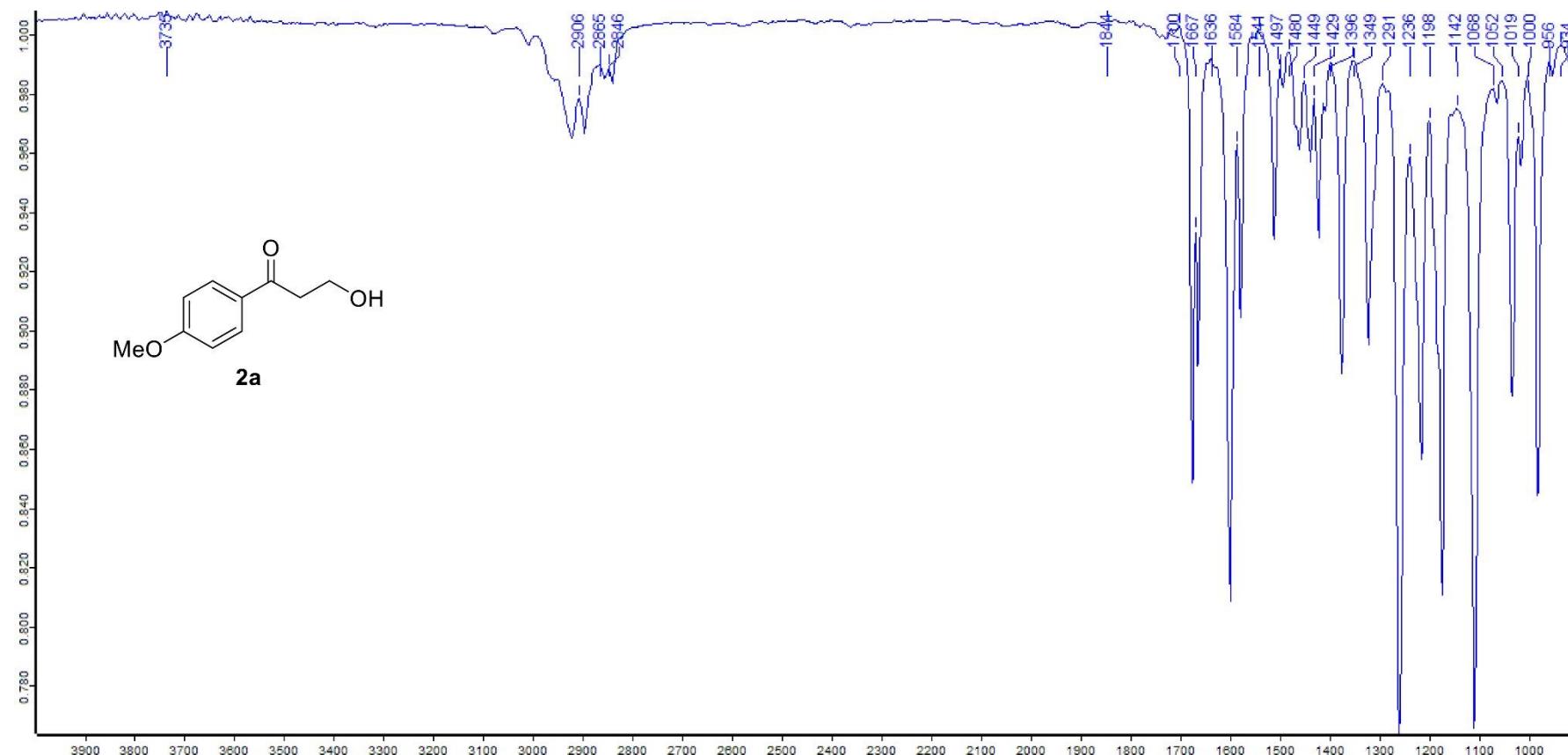
Figure S16 HRMS spectrum (ESI) for compound **1d**.



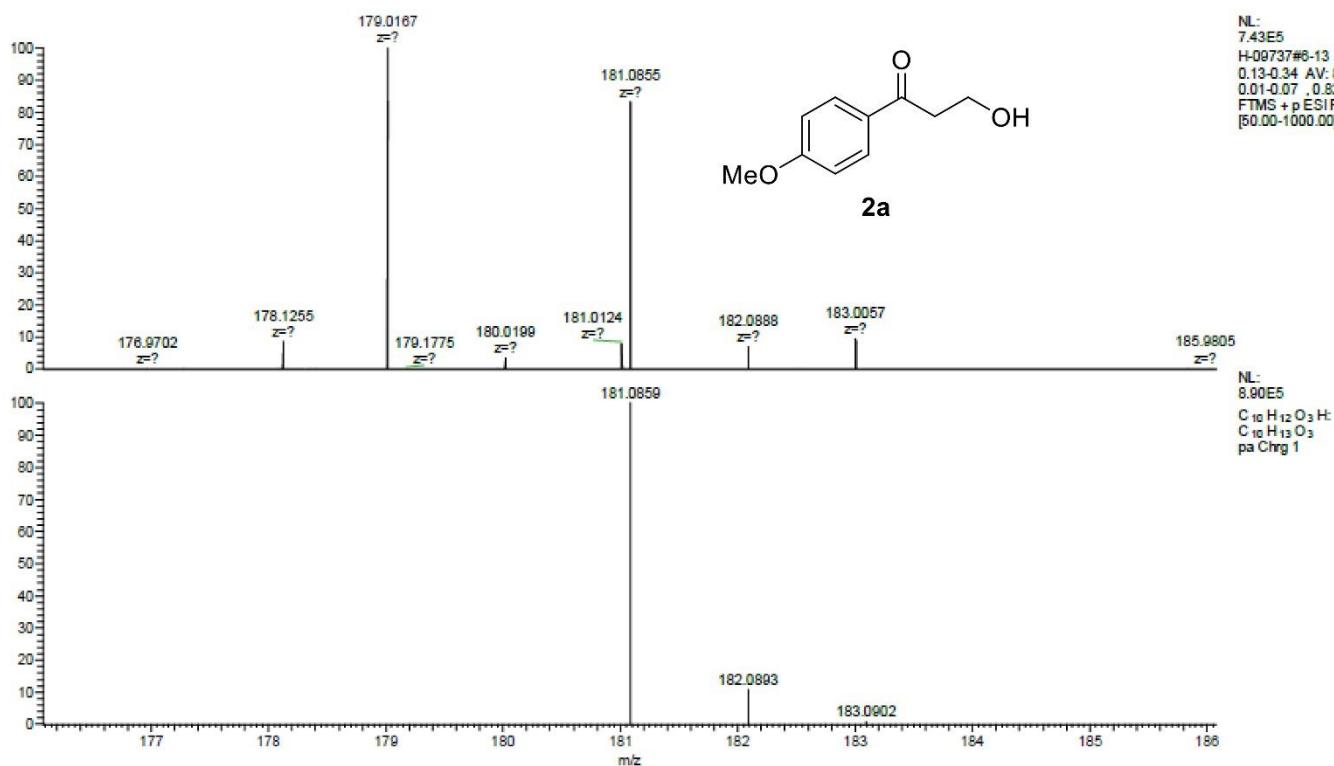
**Figure S17**  $^1\text{H}$  NMR spectrum ( $\text{CDCl}_3$ , 300 MHz) for compound **2a**.



**Figure S18**  $^{13}\text{C}$  NMR spectrum ( $\text{CDCl}_3$ , 75 MHz) for compound **2a**.



**Figure S19** IR spectrum (Diamond ATR) for compound **2a**.

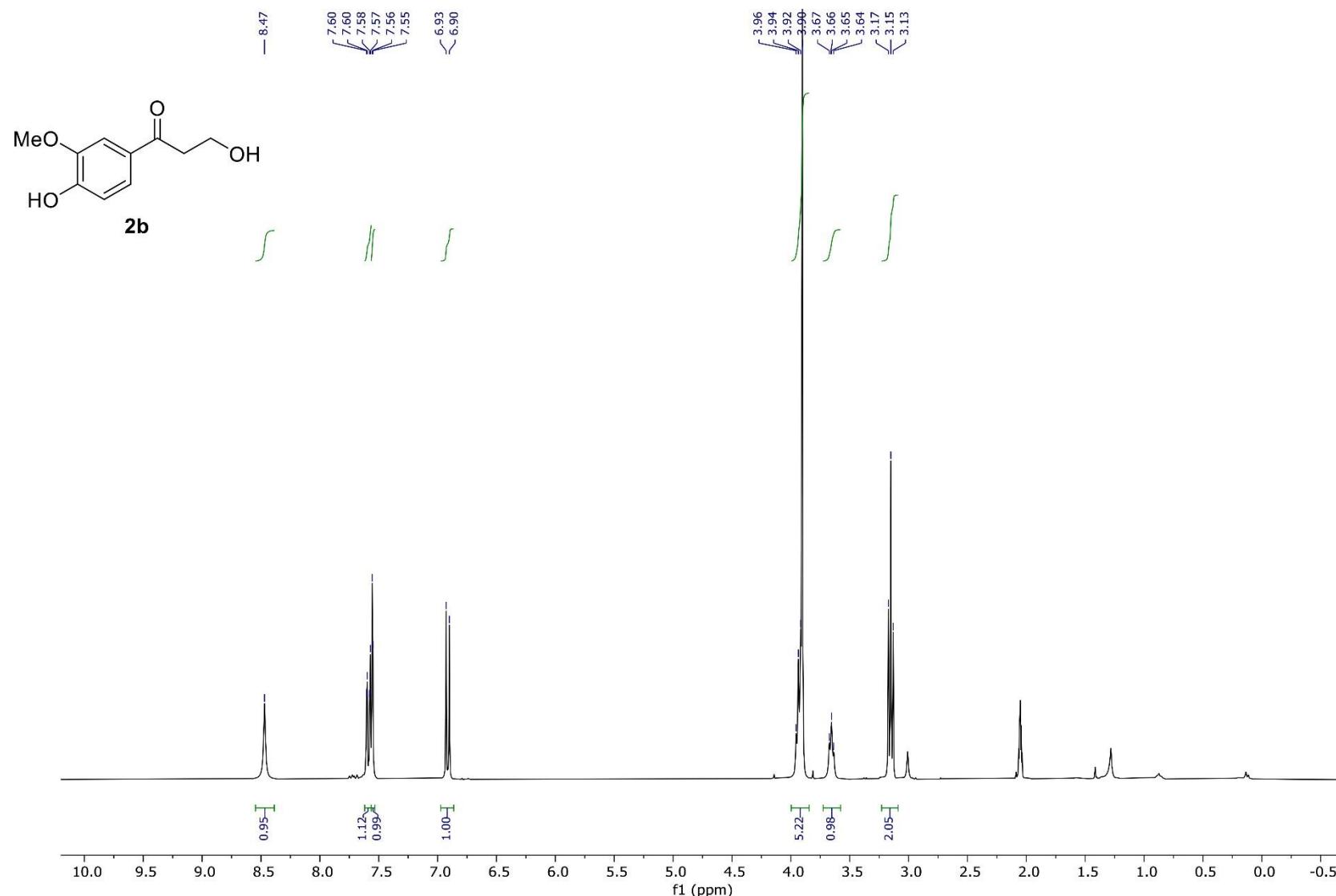


## Experimental/theoretical isotopic pattern MS spectrum

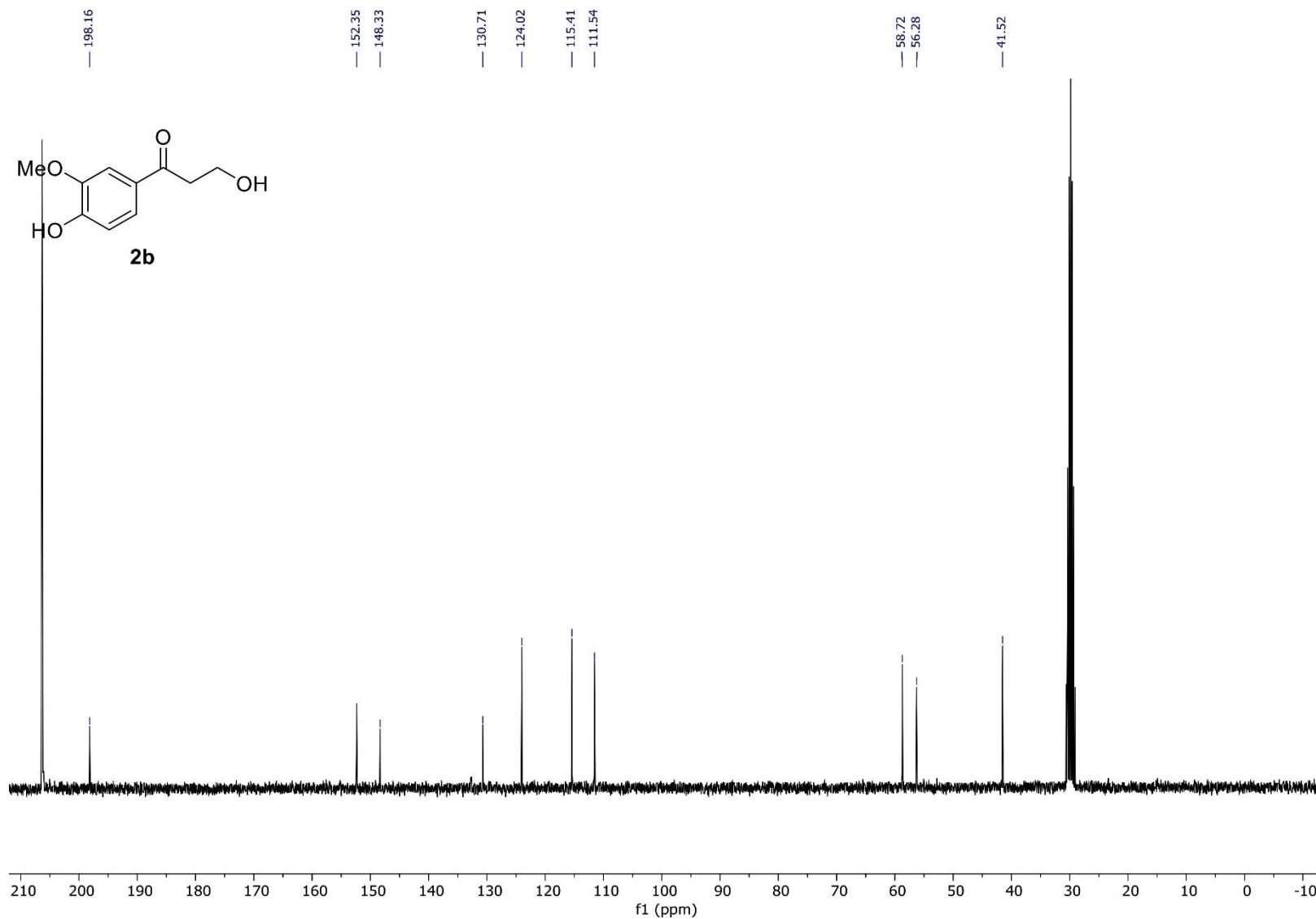
Error = -2.3 ppm; Relative Intensity (%) 100

HRMS (ESI) m/z: [M+H]<sup>+</sup> Calcd for C<sub>10</sub>H<sub>12</sub>O<sub>3</sub>H 181.0859. Found 181.0855; (Error: -2.3 ppm).

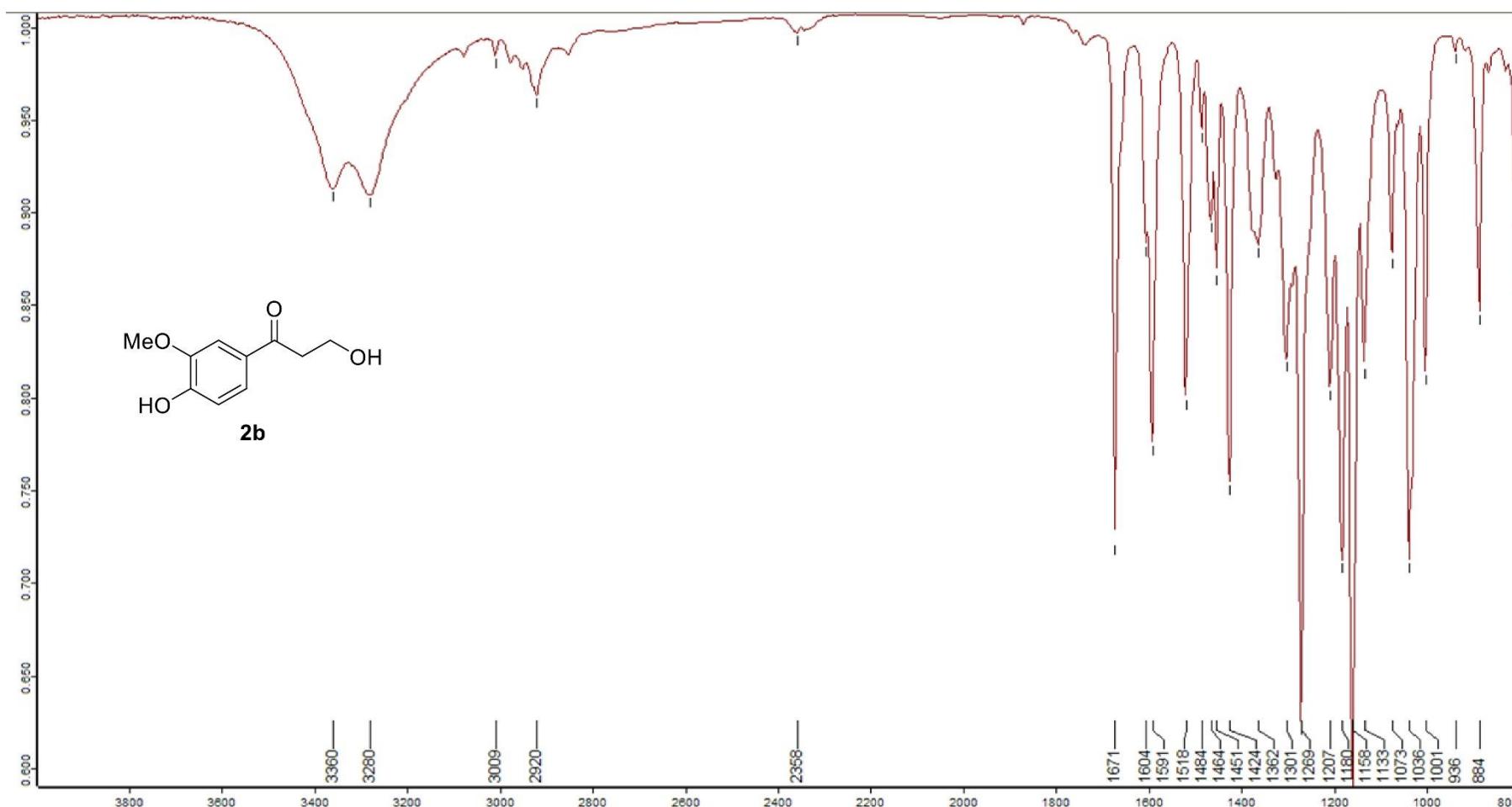
Figure S20 HRMS spectrum (ESI) for compound **2a**.



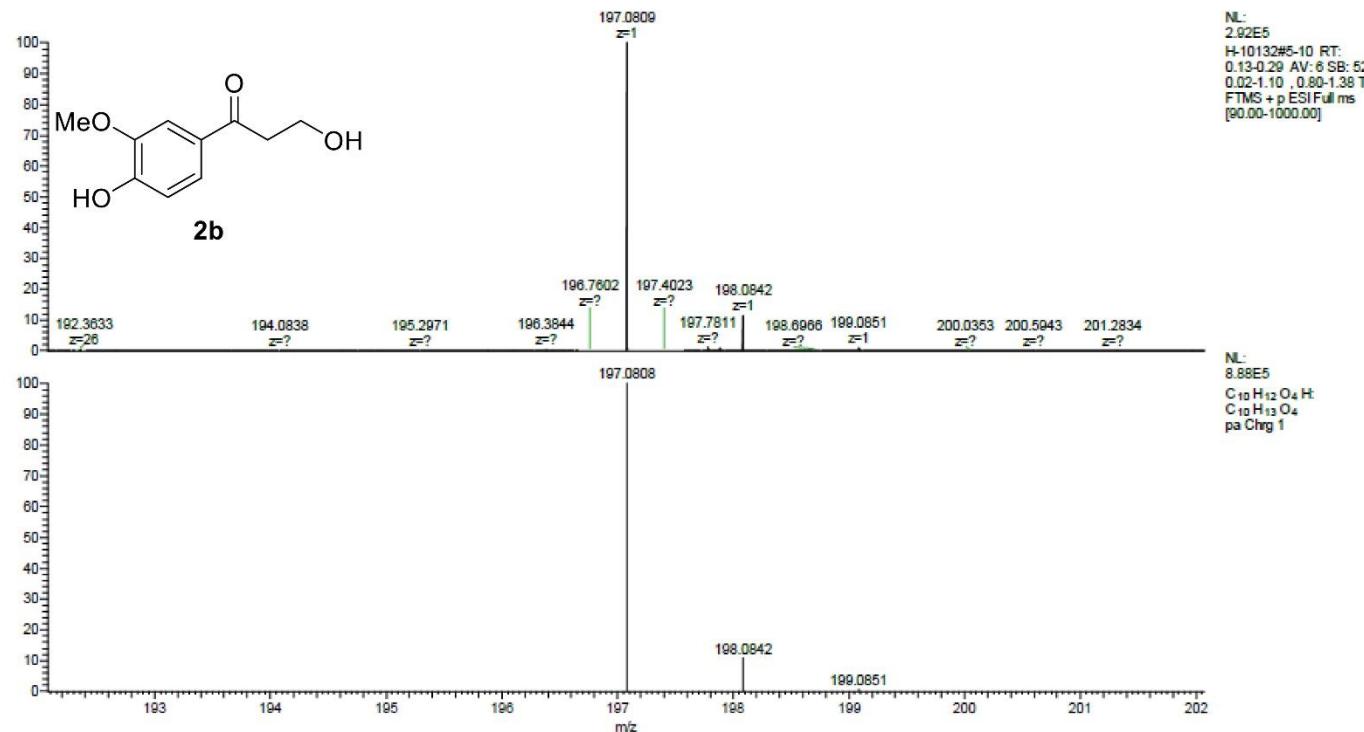
**Figure S21**  $^1\text{H}$  NMR spectrum (acetone- $\text{d}_6$ , 300 MHz) for compound **2b**.



**Figure S22**  $^{13}\text{C}$  NMR spectrum (acetone-d<sub>6</sub>, 75 MHz) for compound **2b**.



**Figure S23** IR spectrum (Diamond ATR) for compound **2b**.

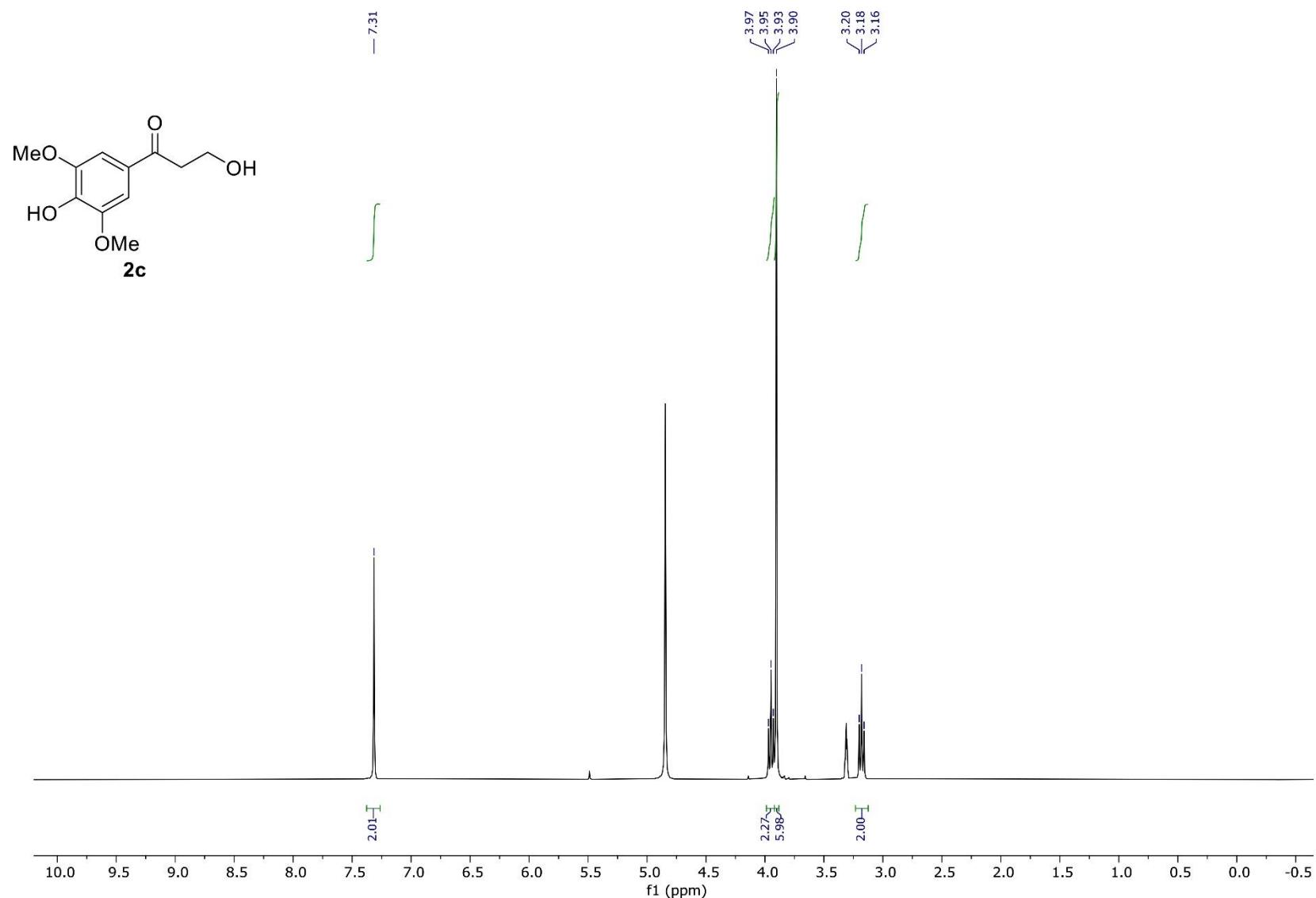


## Experimental/theoretical isotopic pattern MS spectrum

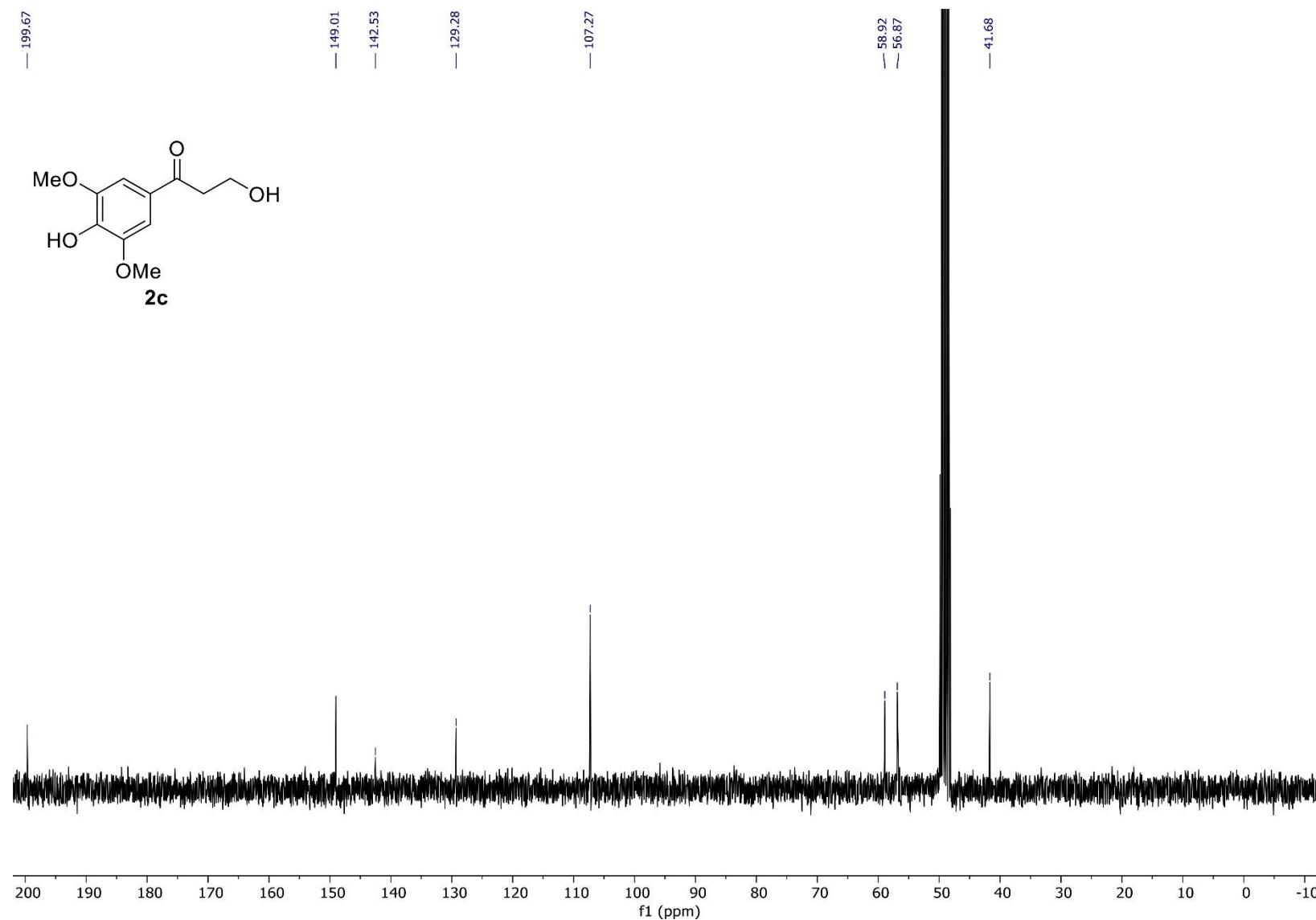
Error = 0.3 ppm; Relative Intensity (%) 100

HRMS (ESI) m/z: [M+H]<sup>+</sup> Calcd for C<sub>10</sub>H<sub>12</sub>O<sub>4</sub>H 197.0808. Found 197.0809; (Error: 0.3 ppm).

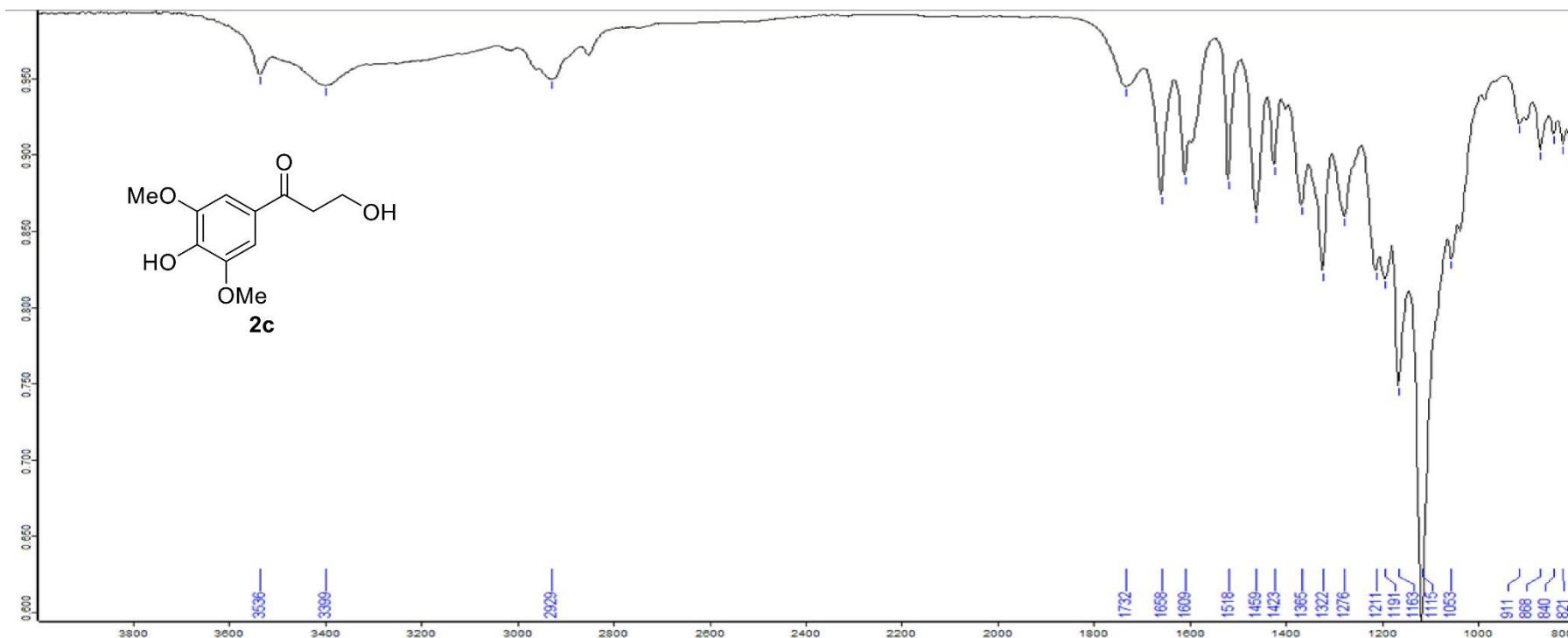
Figure S24 HRMS spectrum (ESI) for compound **2b**.



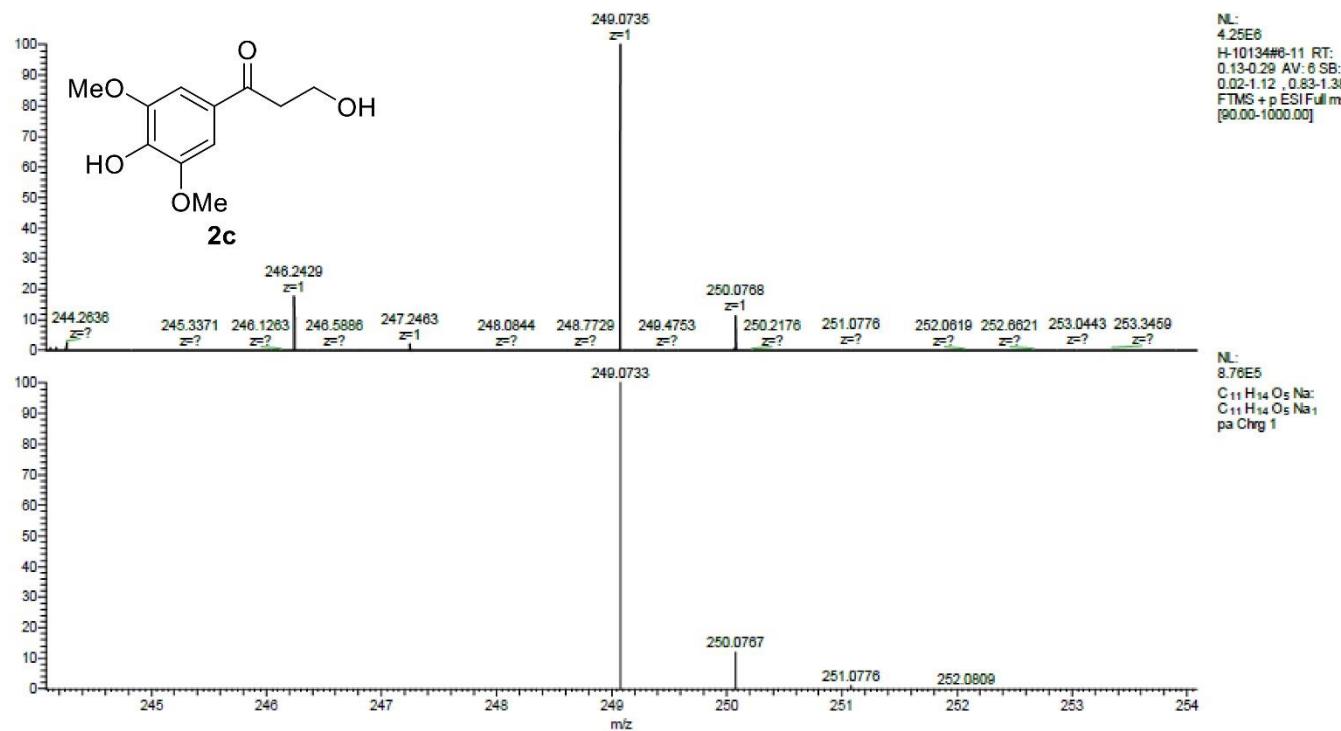
**Figure S25**  $^1\text{H}$  NMR spectrum ( $\text{CD}_3\text{OD}$ , 300 MHz) for compound **2c**.



**Figure S26**  $^{13}\text{C}$  NMR spectrum ( $\text{CD}_3\text{OD}$ , 75 MHz) for compound **2c**.



**Figure S27** IR spectrum (Diamond ATR) for compound **2c**.

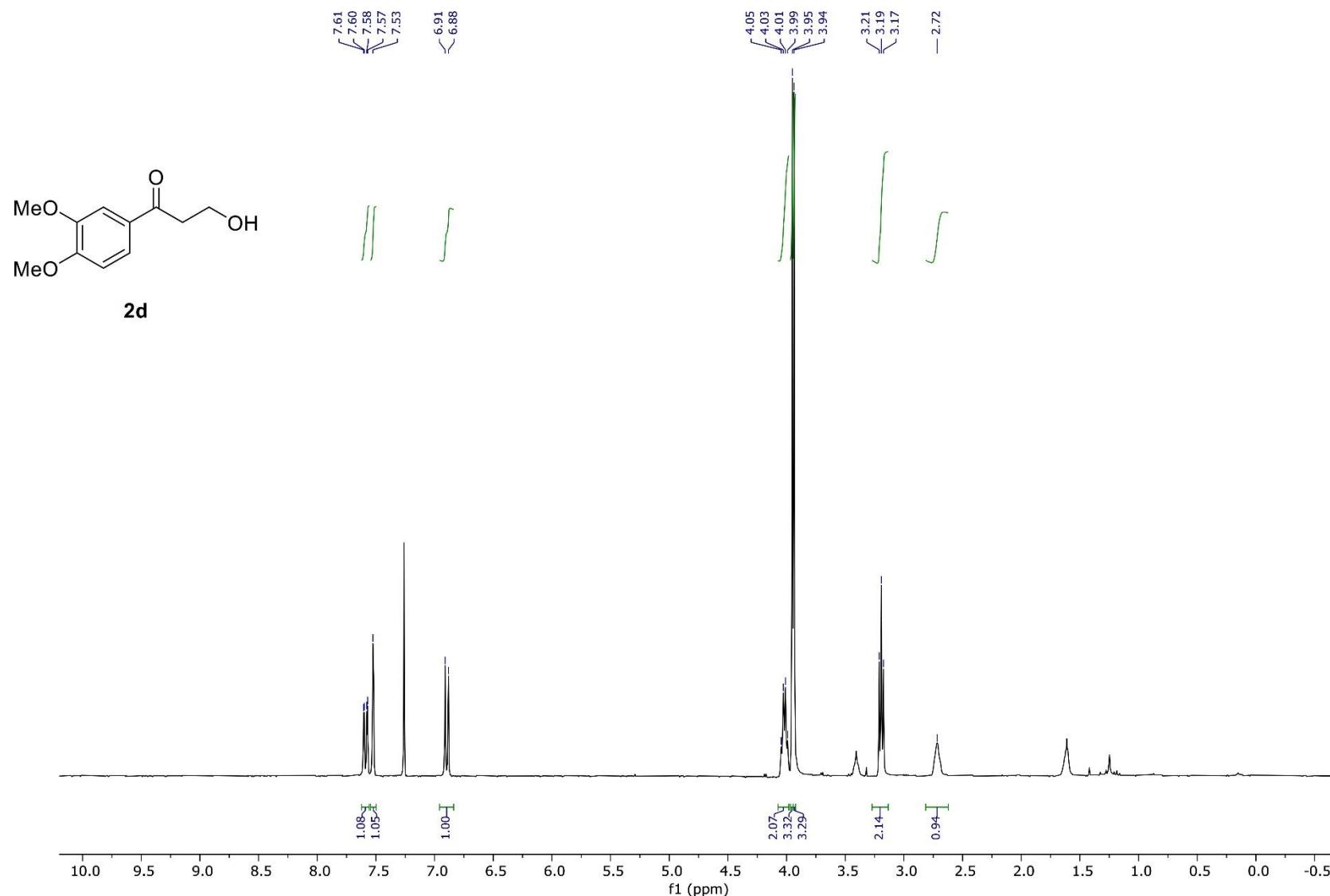


## Experimental/theoretical isotopic pattern MS spectrum

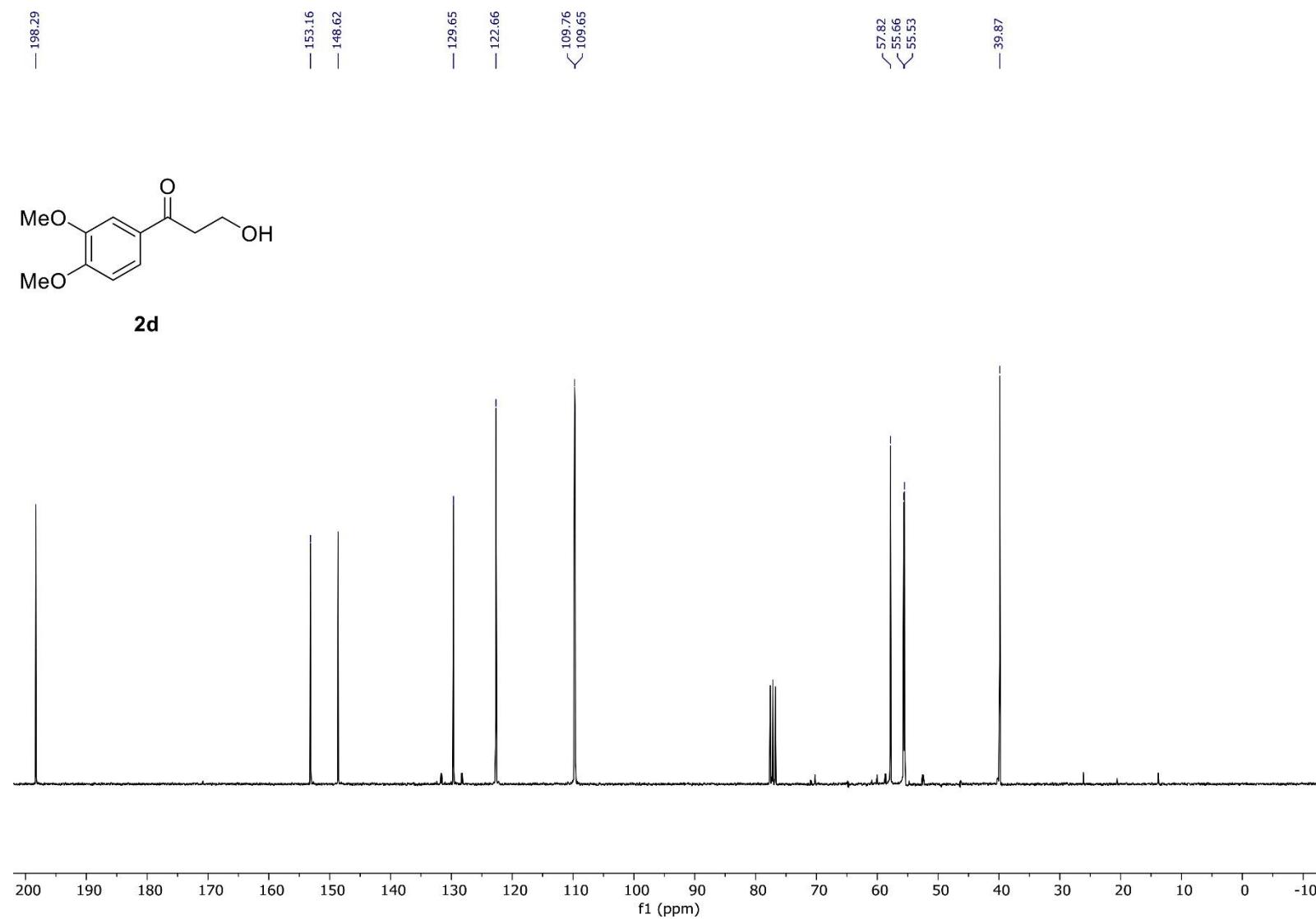
Error = 0.6 ppm; Relative Intensity (%) 100

HRMS (ESI) m/z: [M+Na]<sup>+</sup> Calcd for C<sub>11</sub>H<sub>14</sub>O<sub>5</sub>Na 249.0733. Found 249.0735; (Error: 0.6 ppm).

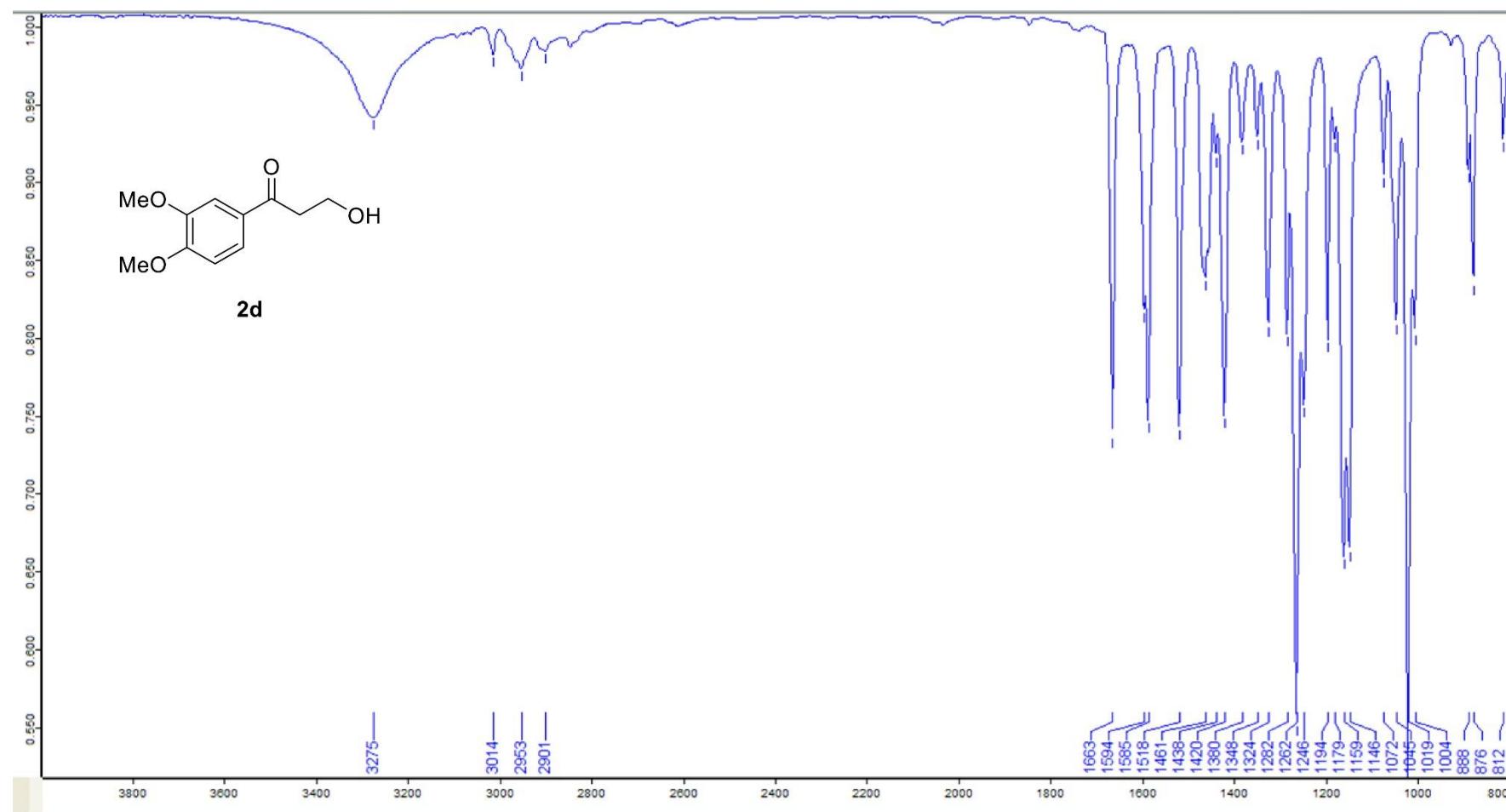
Figure S28 HRMS spectrum (ESI) for compound **2c**.



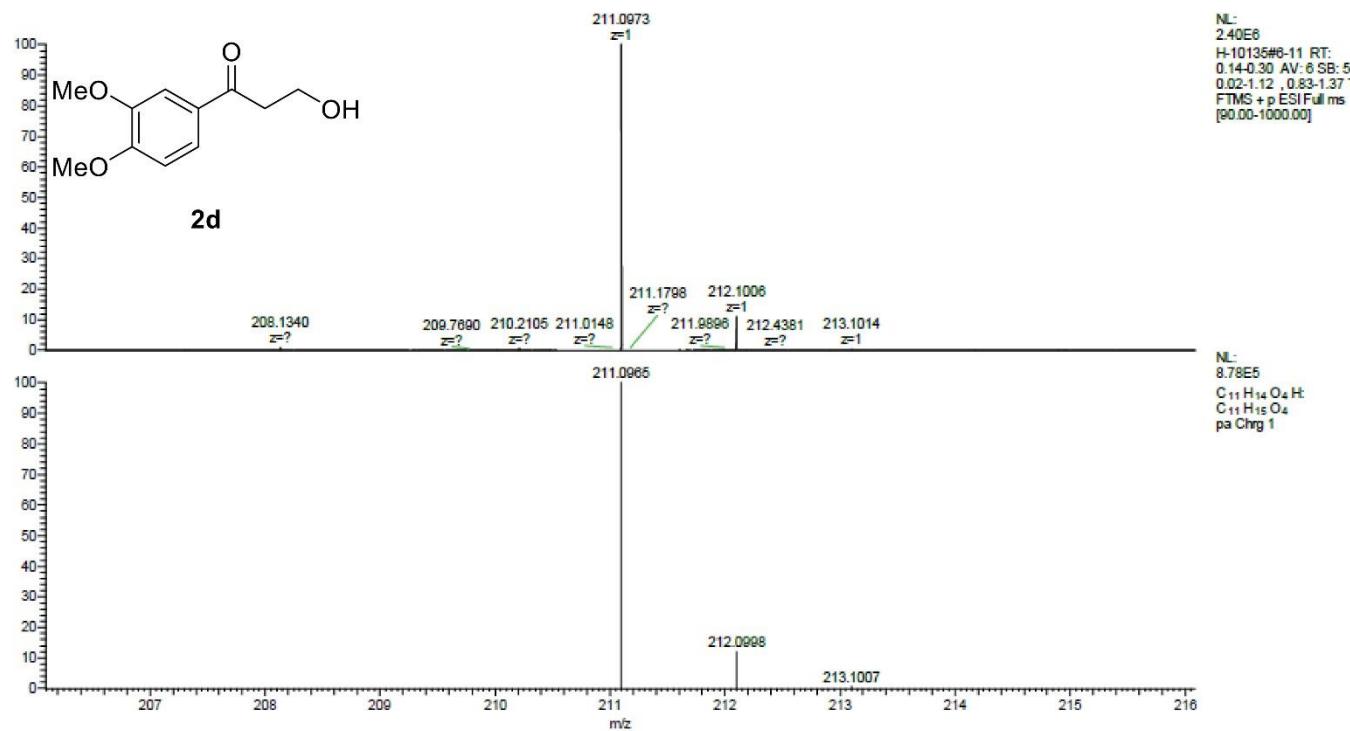
**Figure S29**  $^1\text{H}$  NMR spectrum ( $\text{CDCl}_3$ , 400 MHz) for compound **2d**.



**Figure S30** <sup>13</sup>C NMR spectrum (CDCl<sub>3</sub>, 100 MHz) for compound **2d**.



**Figure S31** IR spectrum (Diamond ATR) for compound **2d**.



## Experimental/theoretical isotopic pattern MS spectrum

Error = 3.9 ppm; Relative Intensity (%) 100

HRMS (ESI) m/z: [M+H]<sup>+</sup> Calcd for C<sub>11</sub>H<sub>14</sub>O<sub>4</sub>H 211.0965. Found 211.0973; (Error: 3.9 ppm).

Figure S32 HRMS spectrum (ESI) for compound **2d**.