

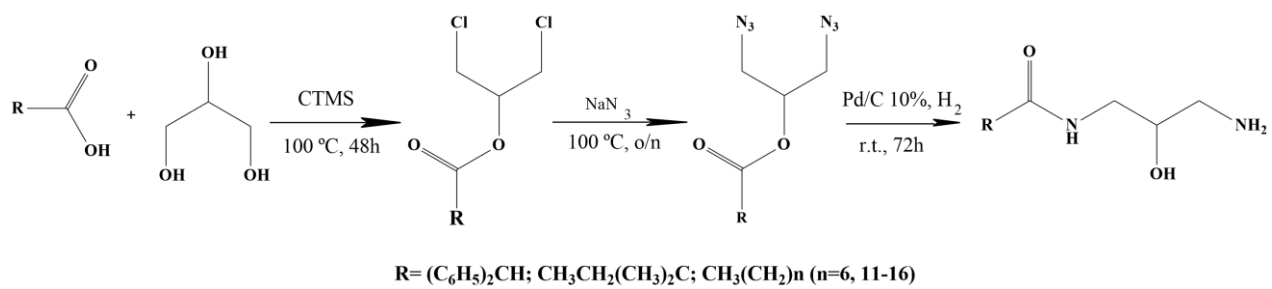
**SUPPLEMENTARY MATERIAL**

**SYNTHESIS AND THERMOPHYSICAL  
CHARACTERIZATION OF FATTY AMIDES FOR  
THERMAL ENERGY STORAGE**

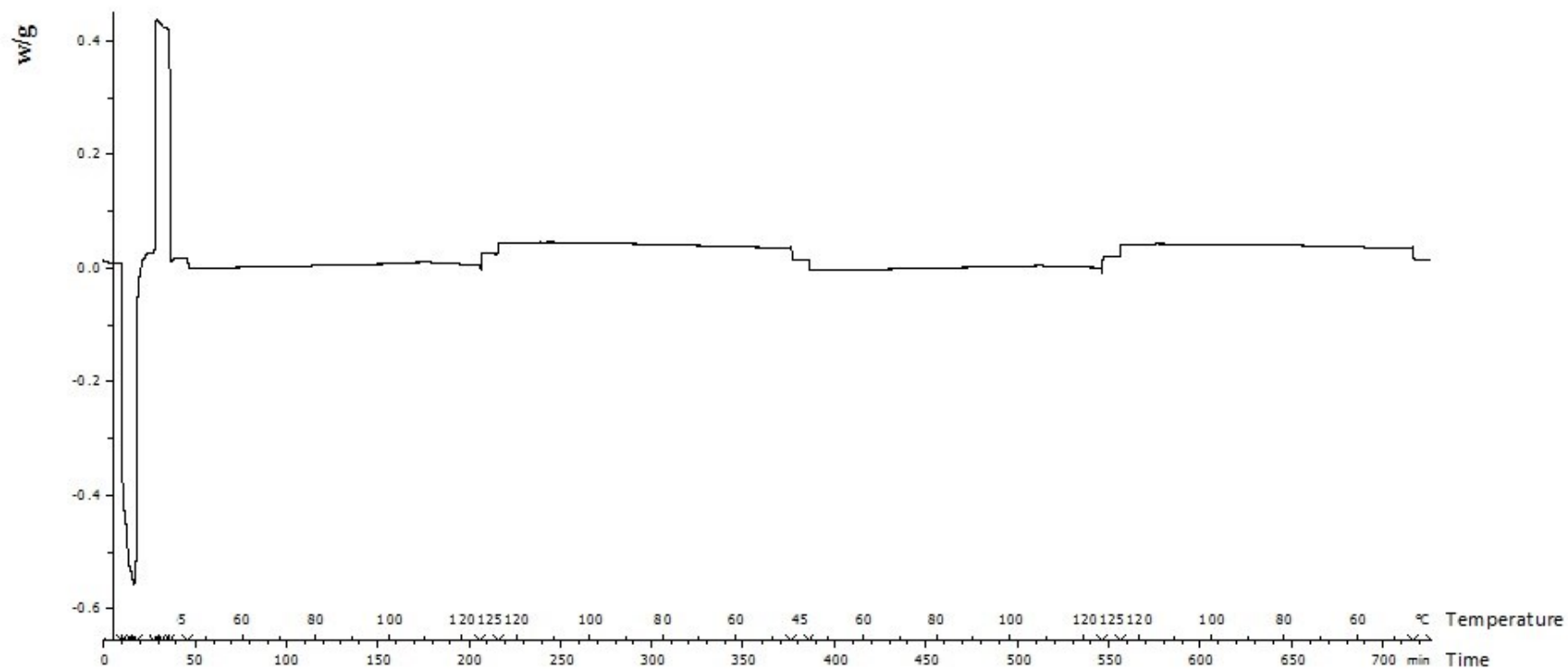
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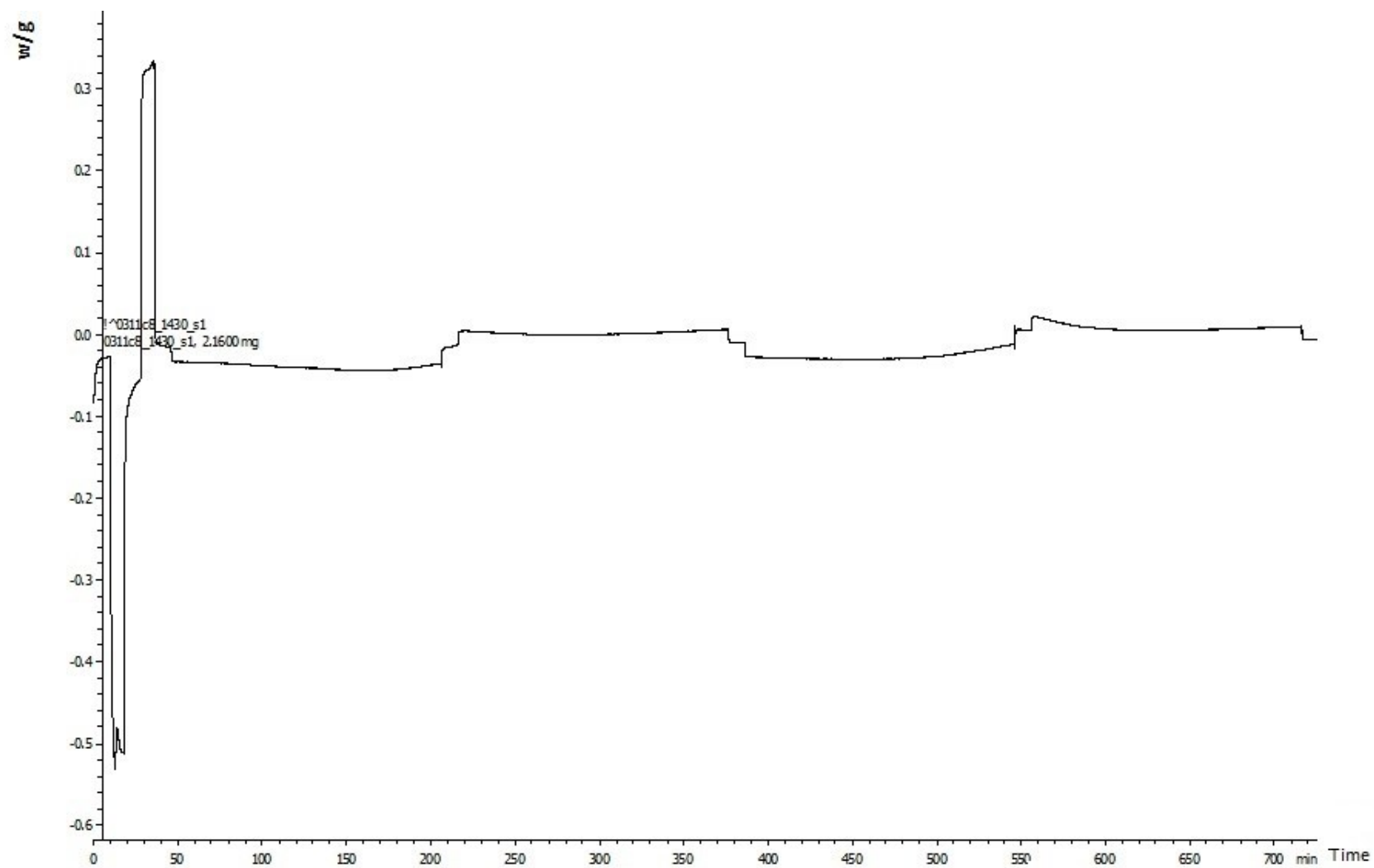
## GENERAL SCHEME (SYNTHETIC PROCESS)



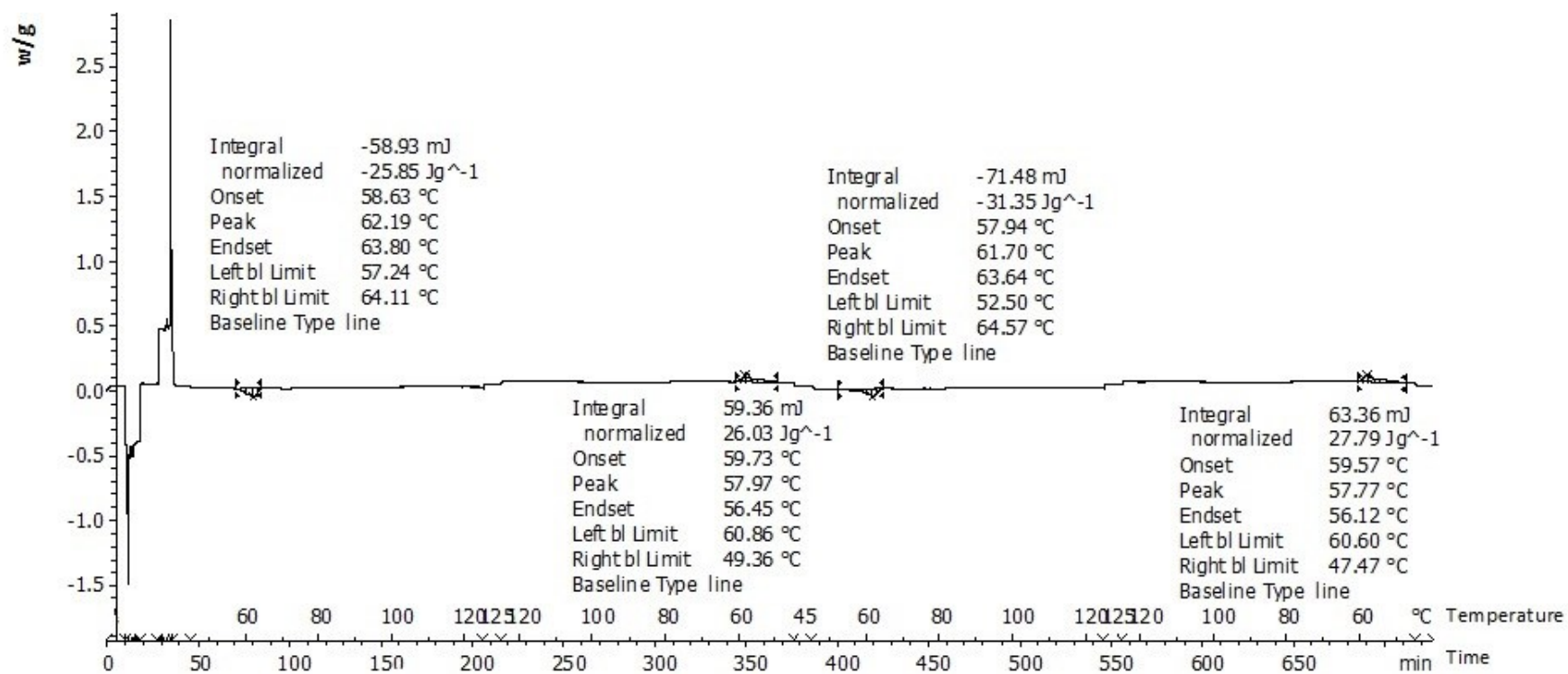
## THERMOPHYSICAL CHARACTERIZATION (DSC response)



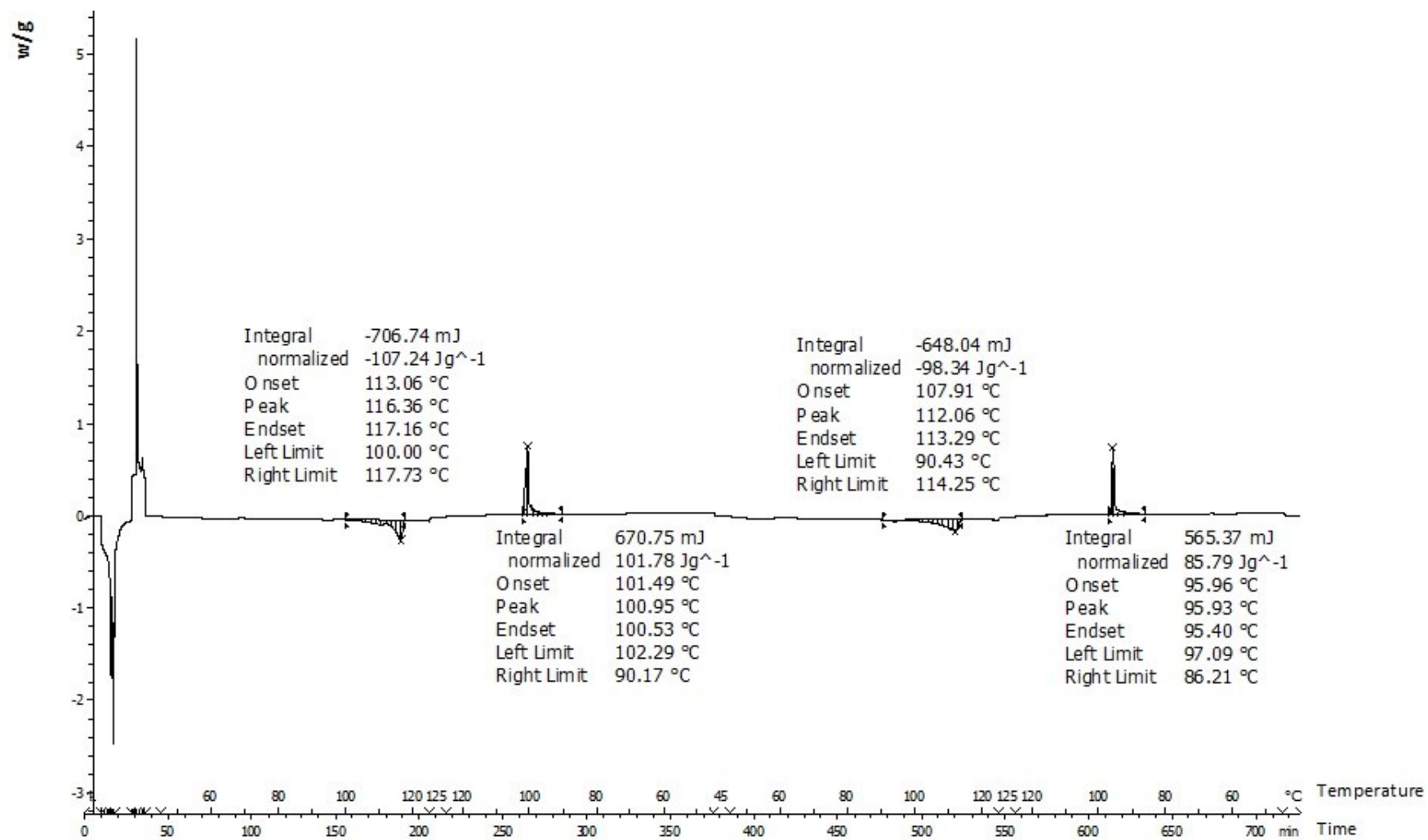
**Figure 1.** DSC response and evaluation of monoamide **2b**.



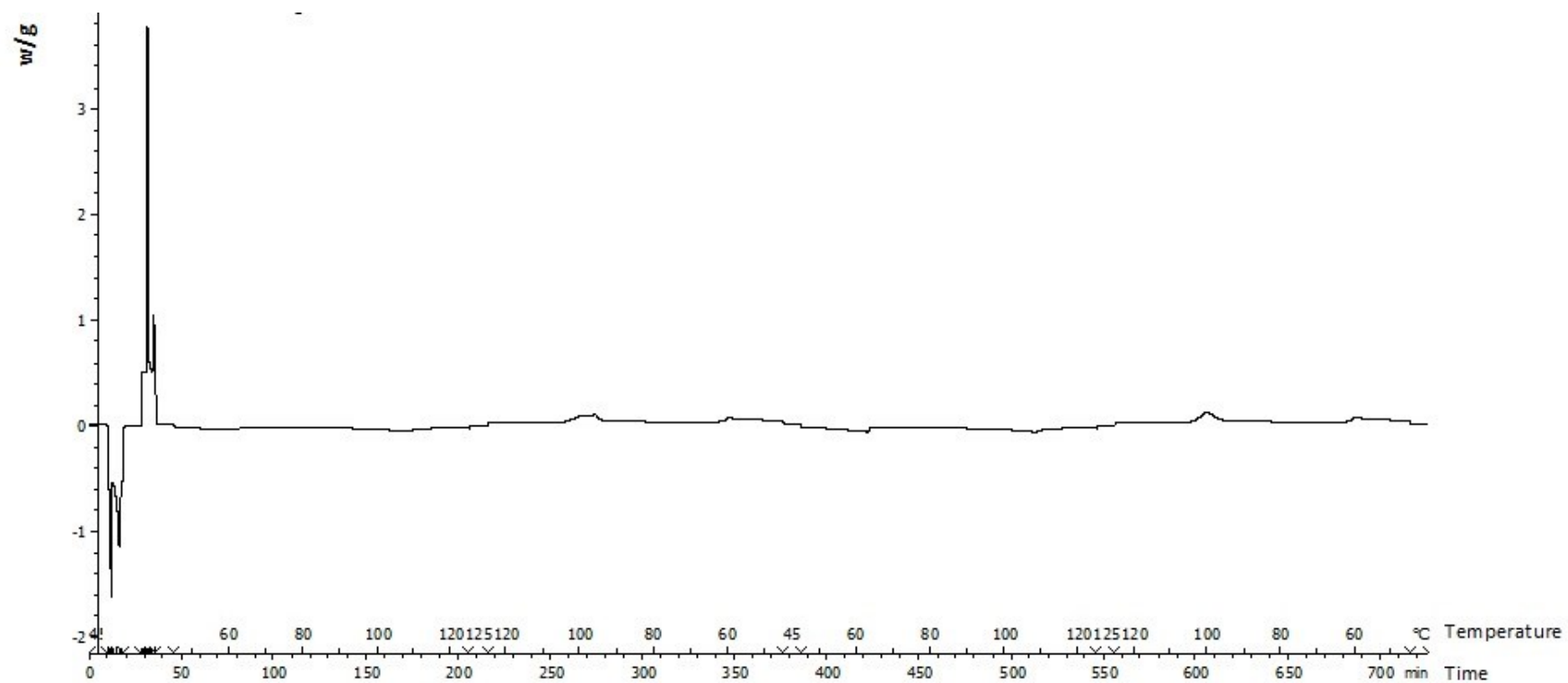
**Figure 2.** DSC response and evaluation of monoamide **2c**.



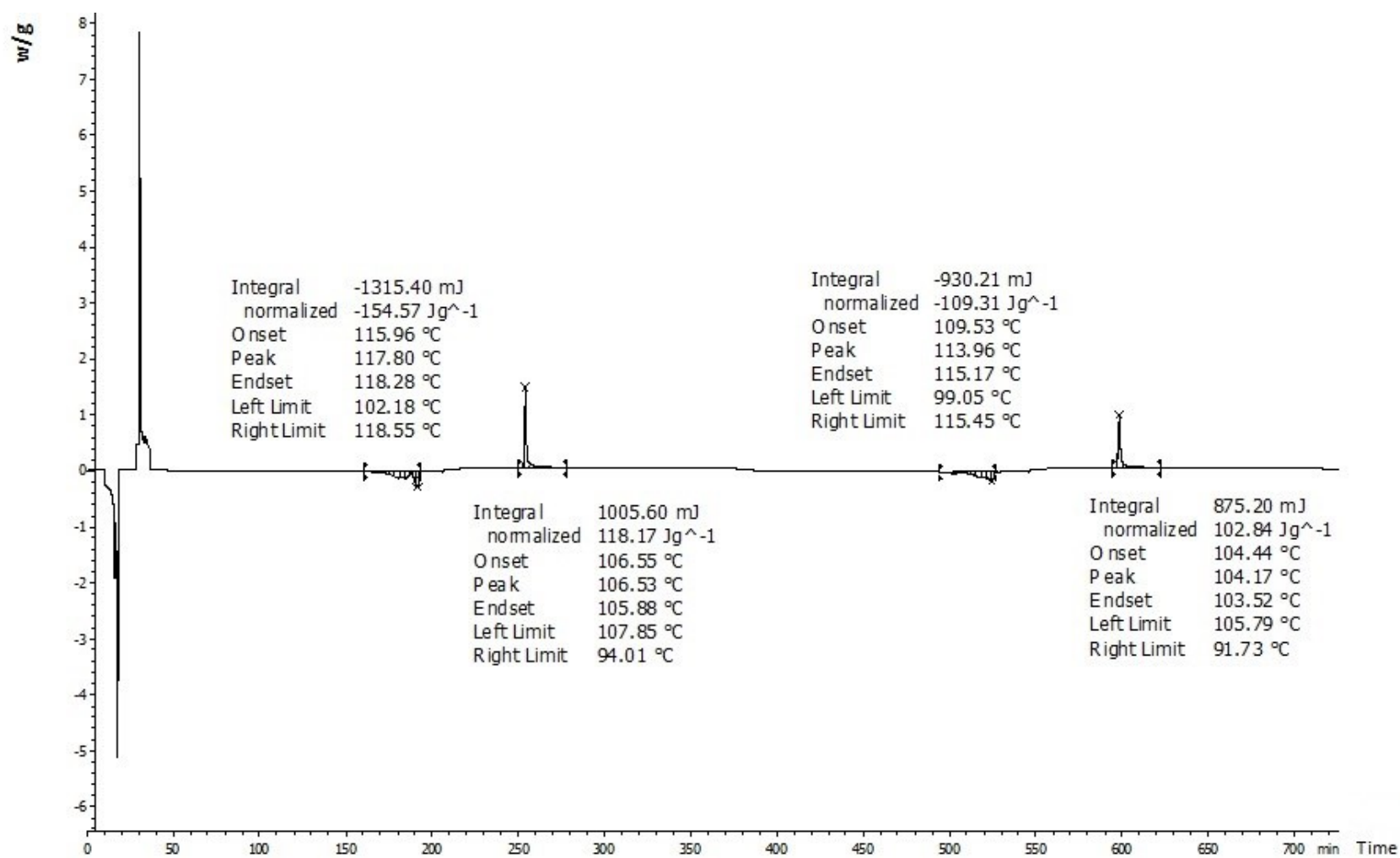
**Figure 3.** DSC response and evaluation of monoamide 2d.



**Figure 4.** DSC response and evaluation of monoamide **2e**.

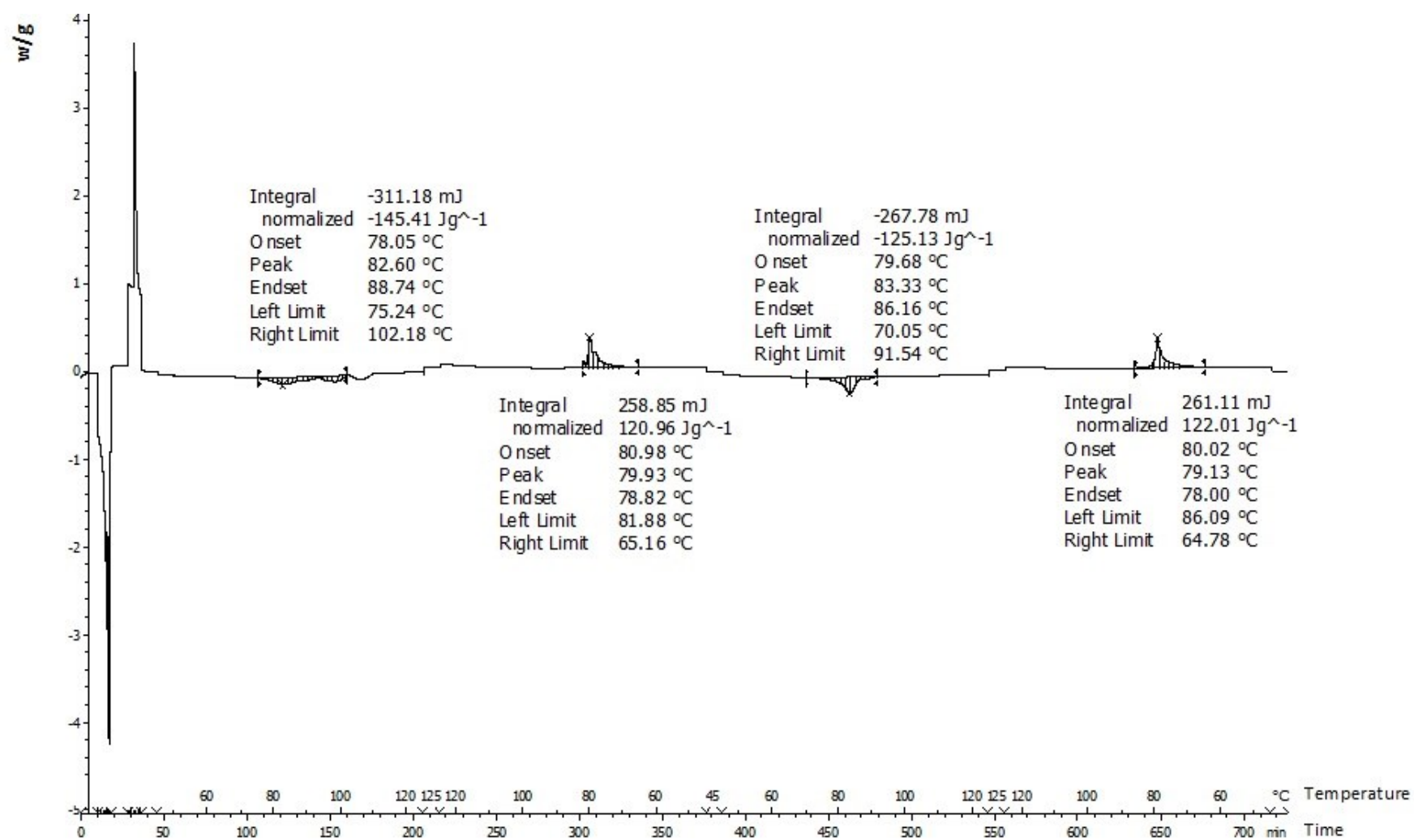


**Figure 5.** DSC response and evaluation of monoamide 2f.

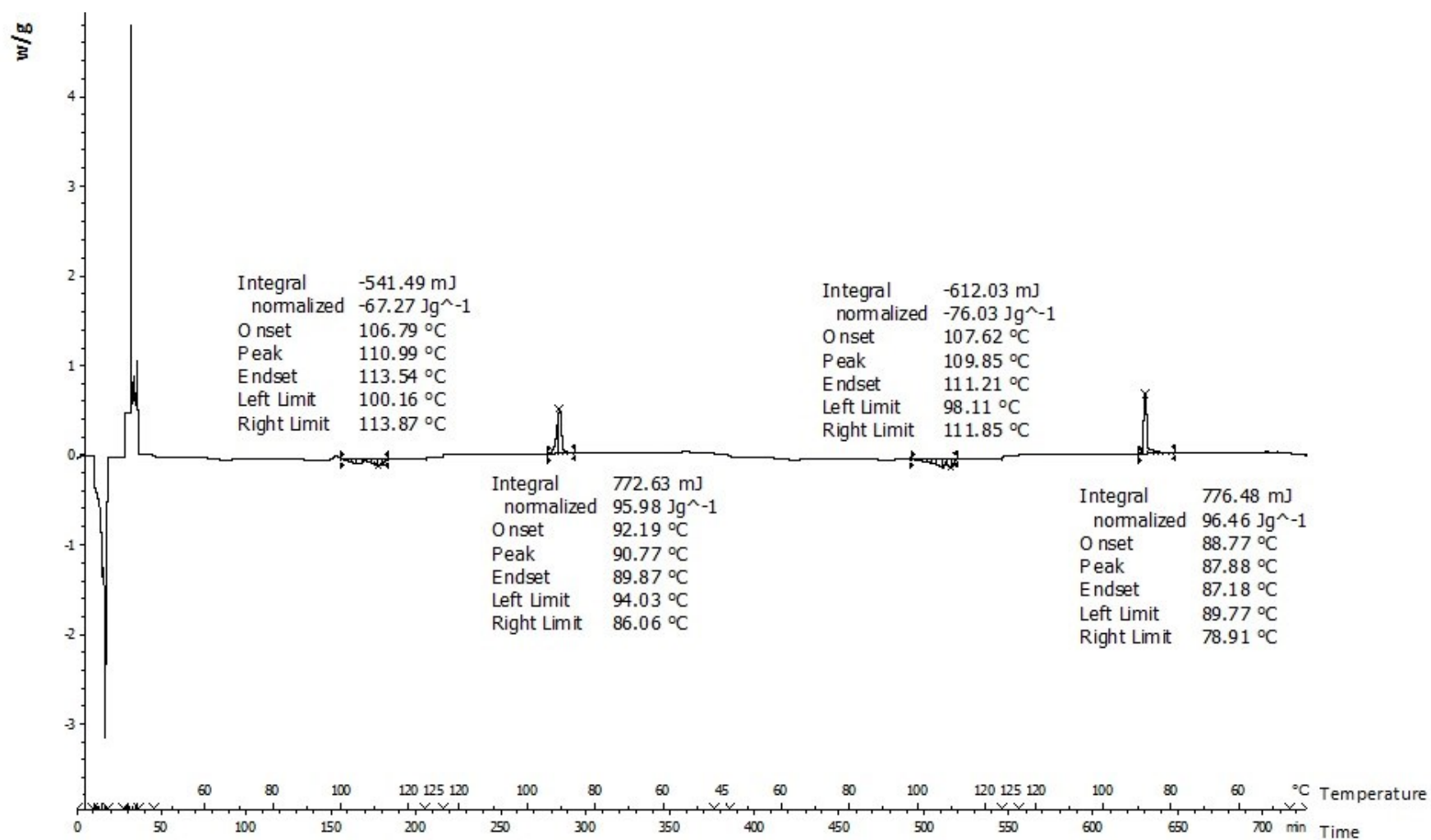


**Figure 6.** DSC response and evaluation of monoamide 2g



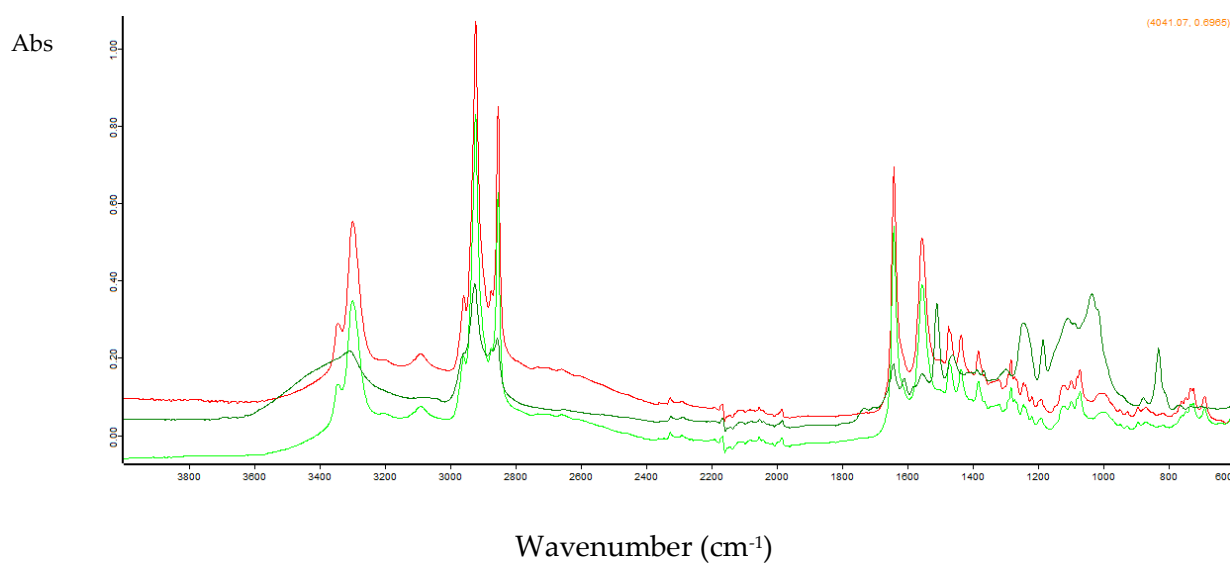


**Figure 7.** DSC response and evaluation of monoamide 2h.

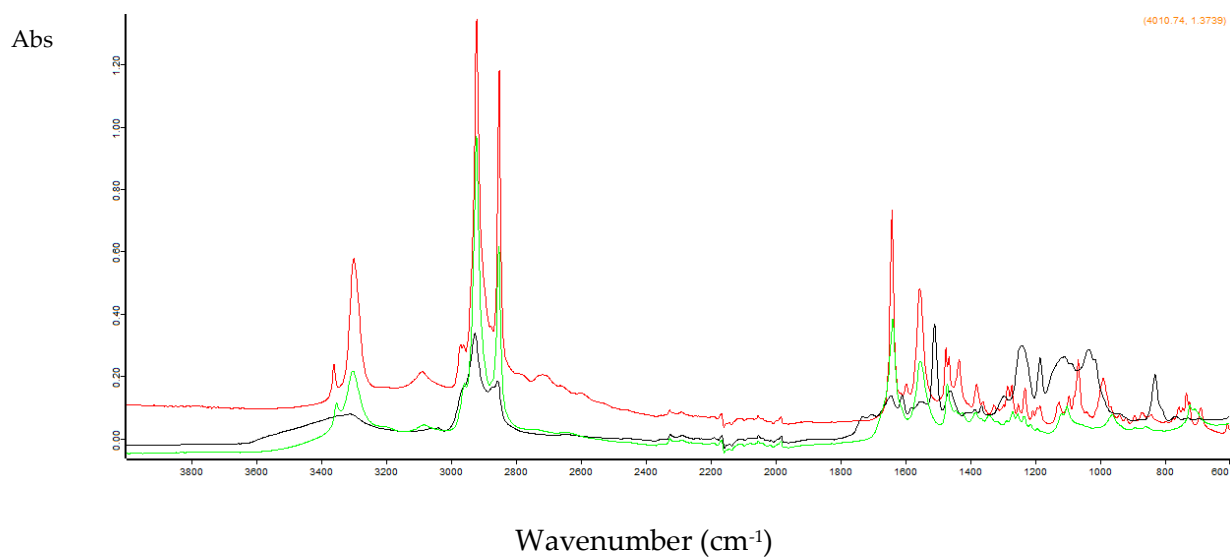


**Figure 8.** DSC response and evaluation of monoamide 2i.

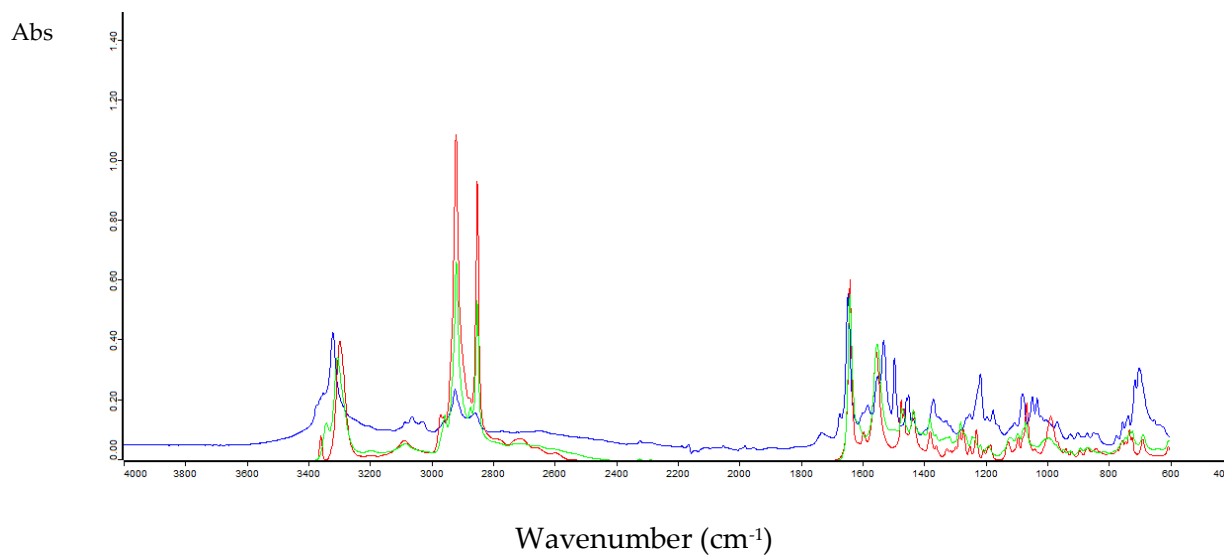
## FT-IR SPECTRA



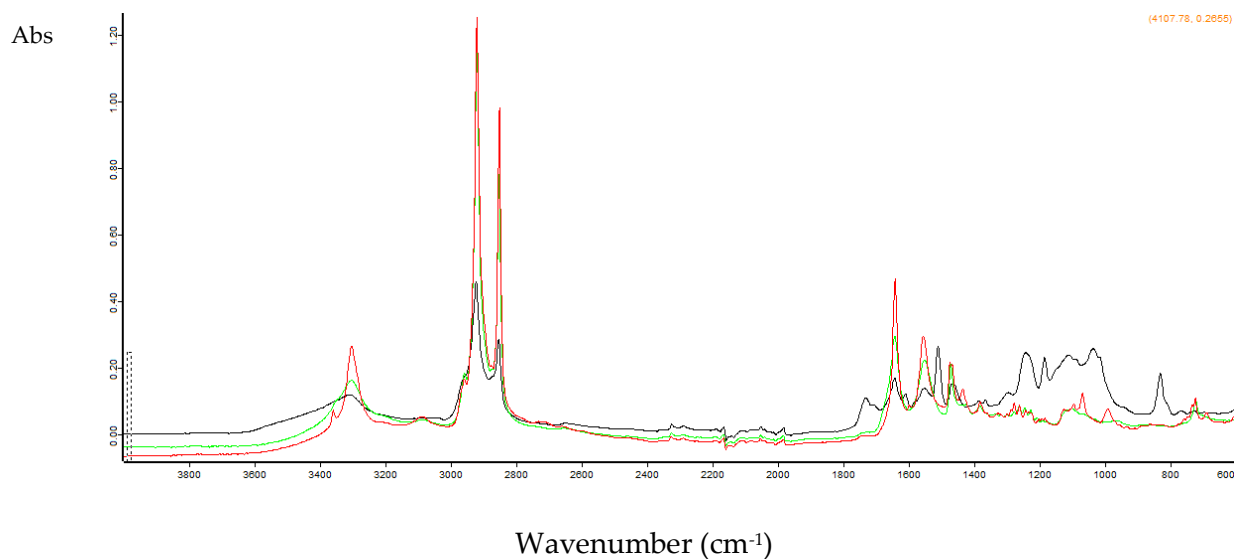
**Figure 9.** FT-IR spectrum of at 40°C, 125°C and 40°C of monoamide **2d** (see color code at the bottom of the last page).



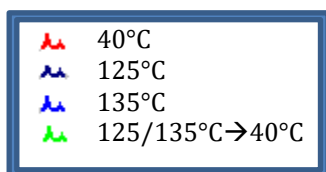
**Figure 9.** FT-IR spectrum of at 40°C, 125°C and 40°C of monoamide **2g** (see color code at the bottom of the last page).



**Figure 9.** FT-IR spectrum of at 40°C, 135°C and 40°C of monoamide **2h** (see color code at the bottom of the last page).

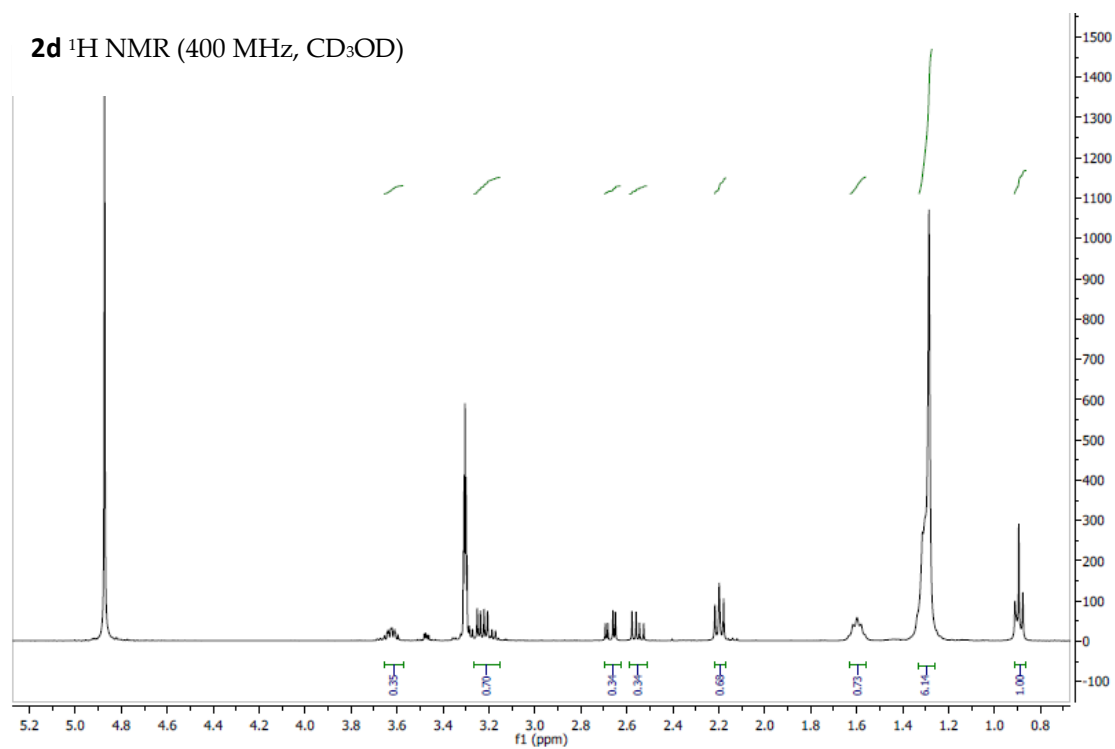


**Figure 9.** FT-IR spectrum of at 40°C, 125°C and 40°C of monoamide **2i** (see color code at the bottom of the last page).

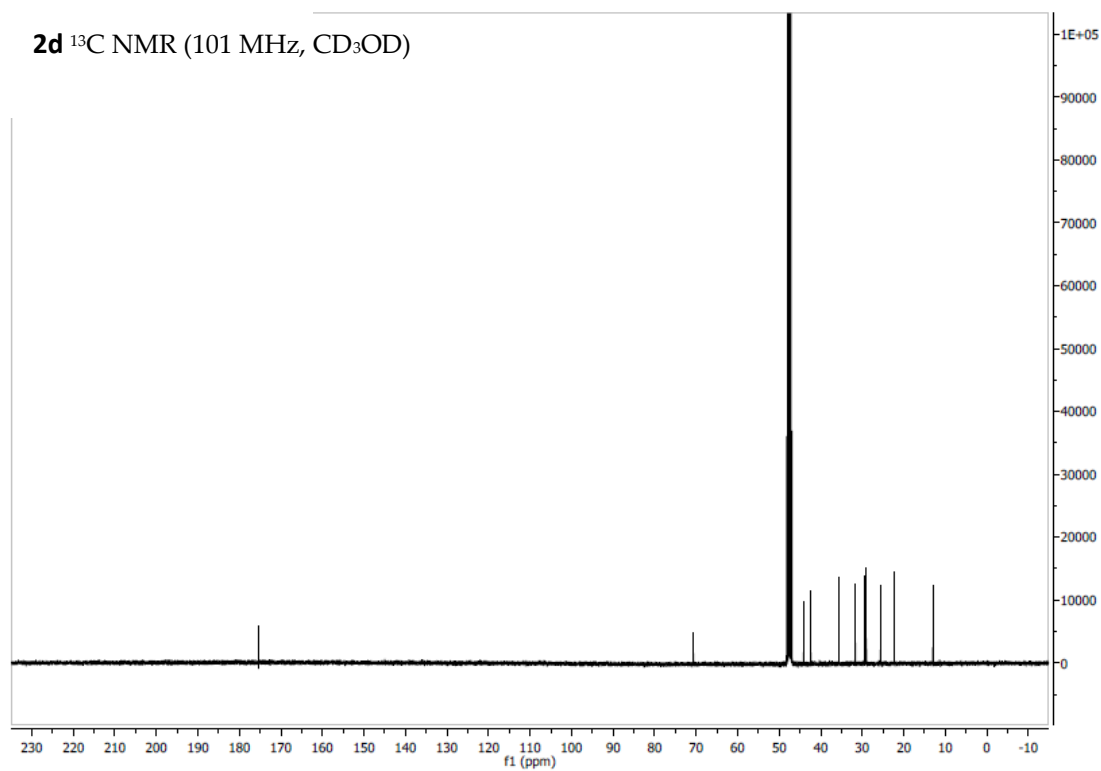


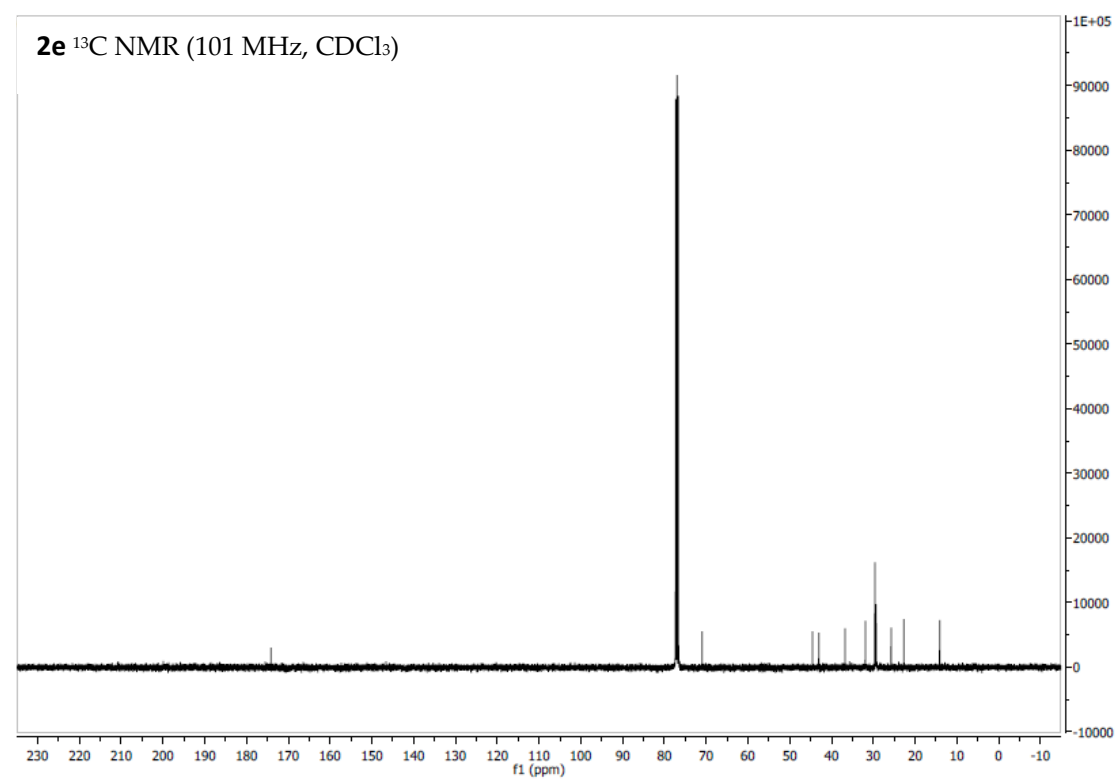
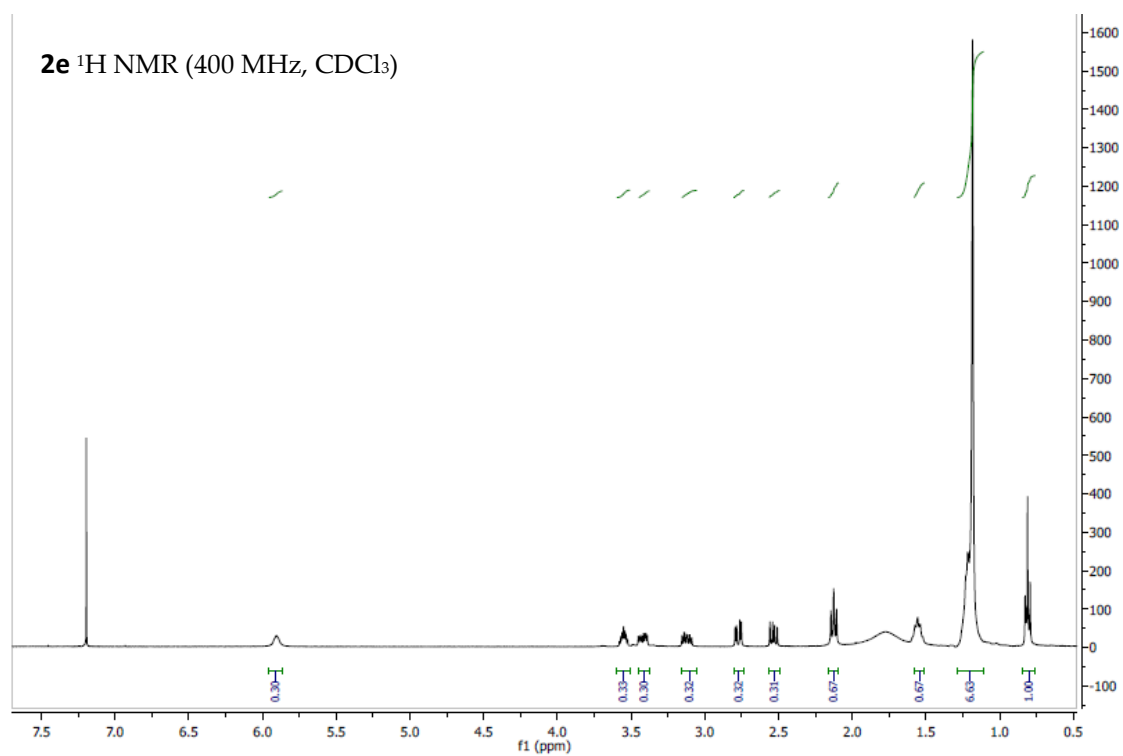
## NMR SPECTRA

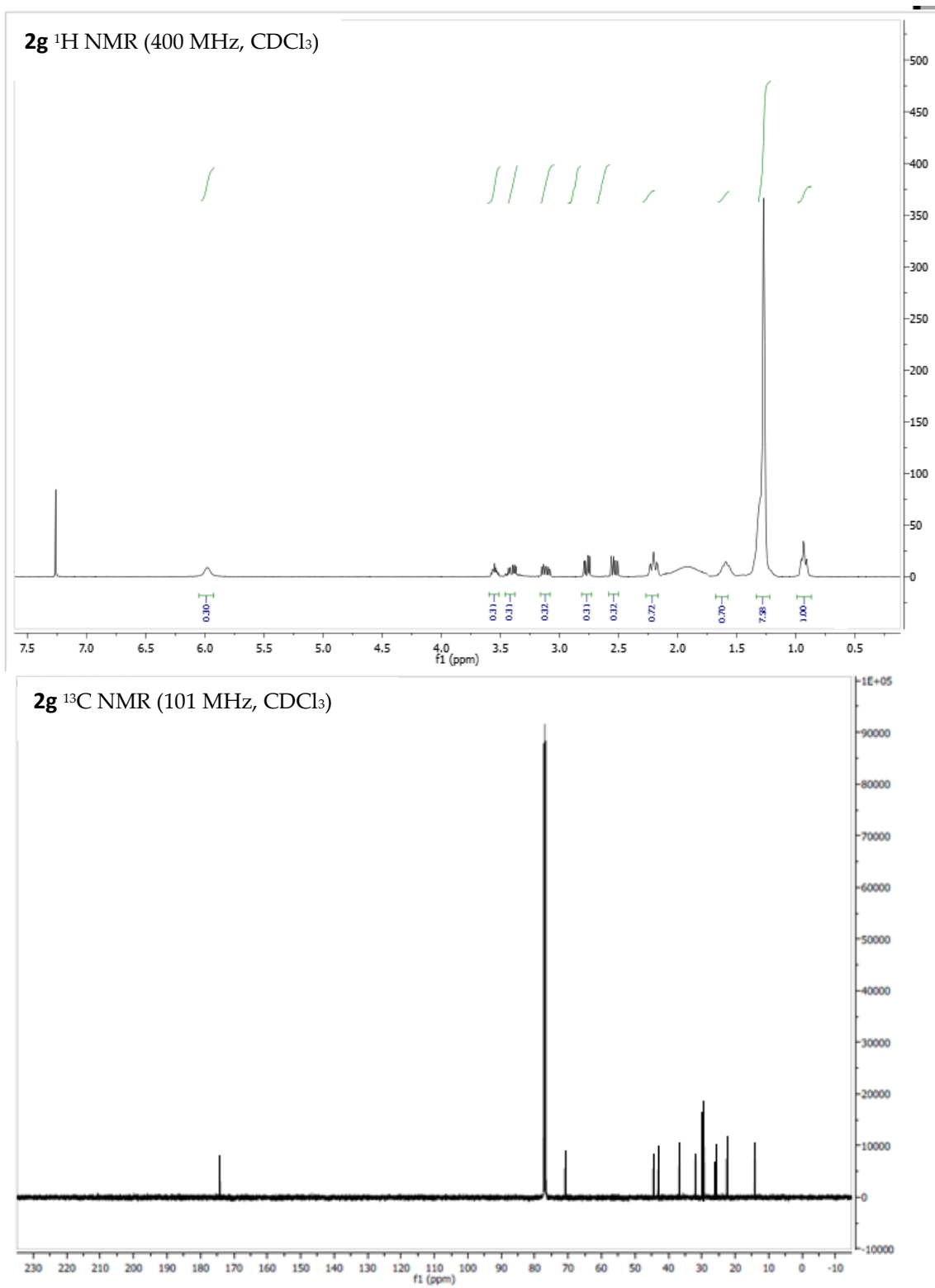
**2d**  $^1\text{H}$  NMR (400 MHz,  $\text{CD}_3\text{OD}$ )



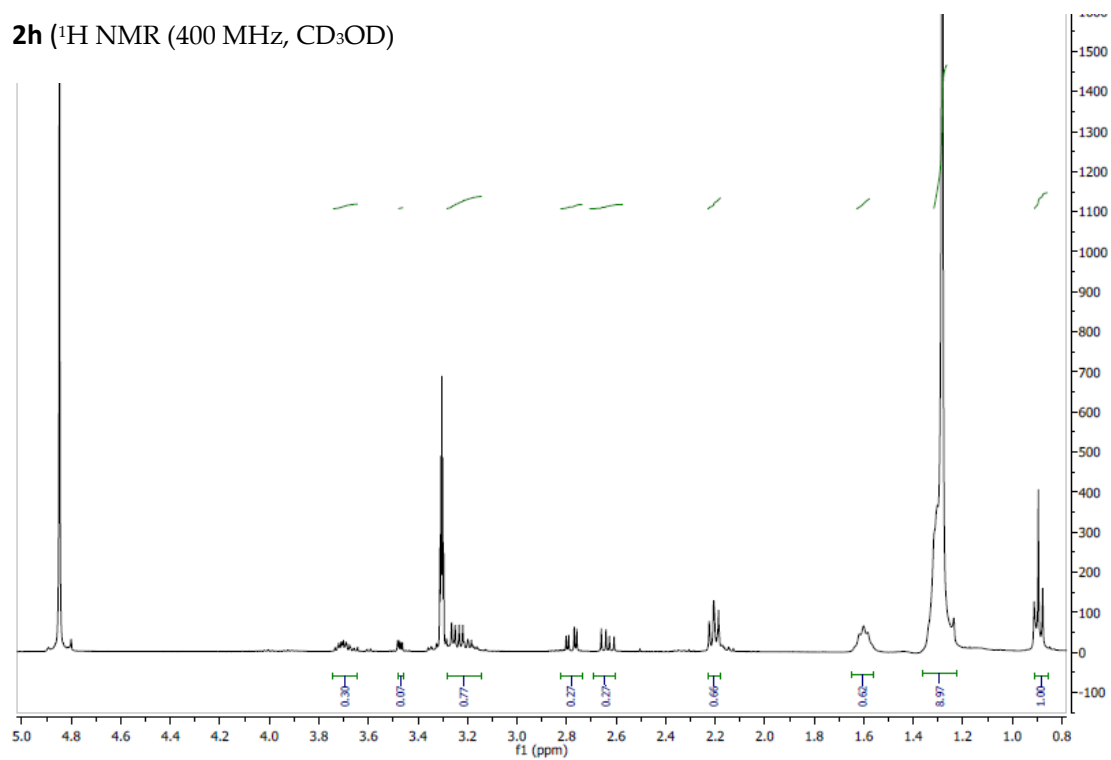
**2d**  $^{13}\text{C}$  NMR (101 MHz,  $\text{CD}_3\text{OD}$ )







**2h** ( $^1\text{H}$  NMR (400 MHz,  $\text{CD}_3\text{OD}$ ))



**2h** ( $^{13}\text{C}$  NMR (101 MHz,  $\text{CD}_3\text{OD}$ ))

