

## Supplementary information

### (E)-2-(2-Oxo-4-phenylbut-3-en-1-yl)benzo[d]thiazole-3(2H)-carboxylates

Yordan Stremski\*, Stela Statkova-Abeghe

University of Plovdiv "Paisii Hilendarski", 24 Tsar Asen Str., 4000 Plovdiv, Bulgaria,

Department of Organic Chemistry;

\*Correspondence: [stremski@uni-plovdiv.net](mailto:stremski@uni-plovdiv.net) (Y.S.); tel.: +359-32-261-346

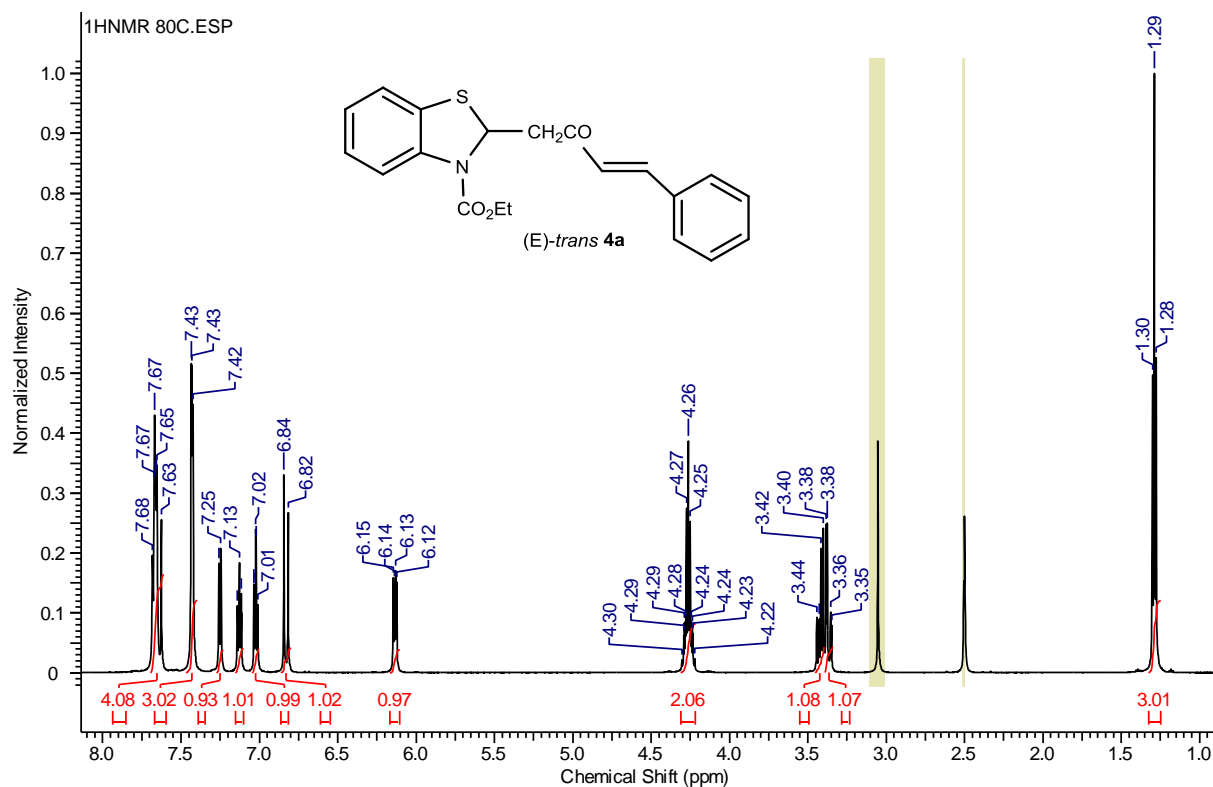
#### Table of Contents

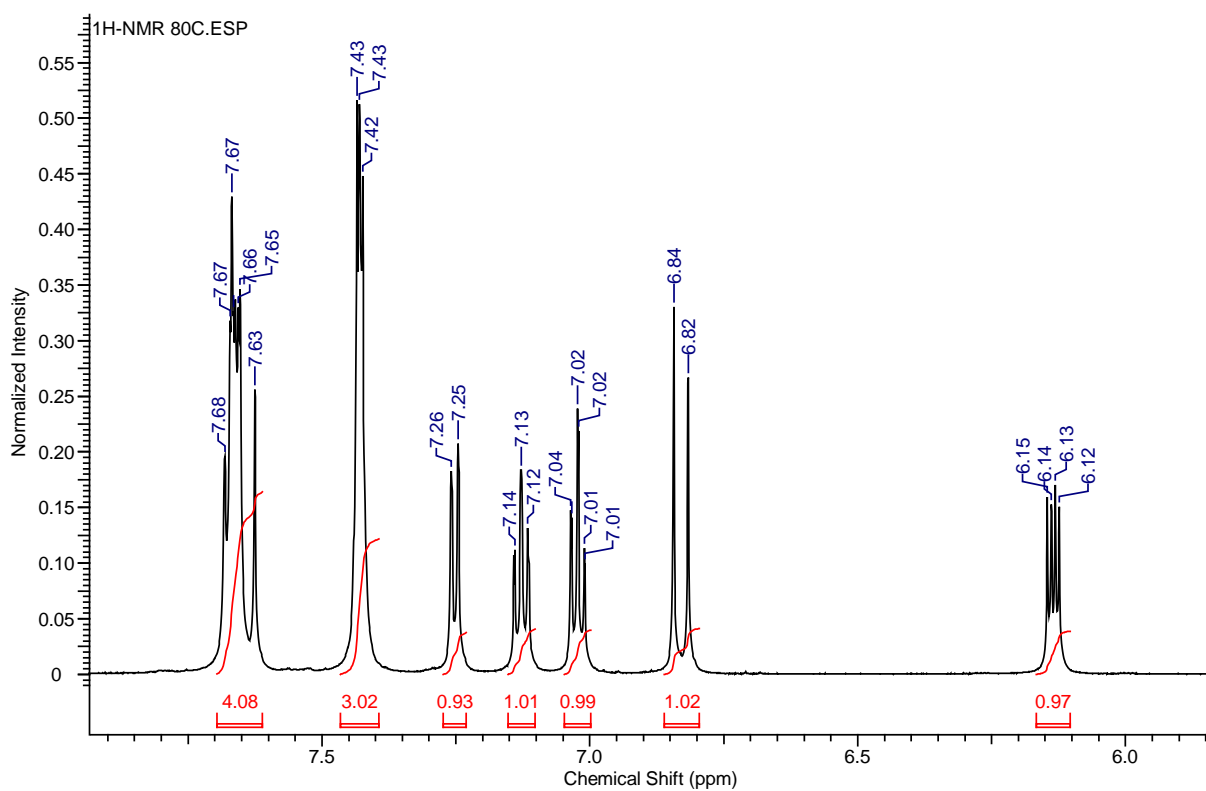
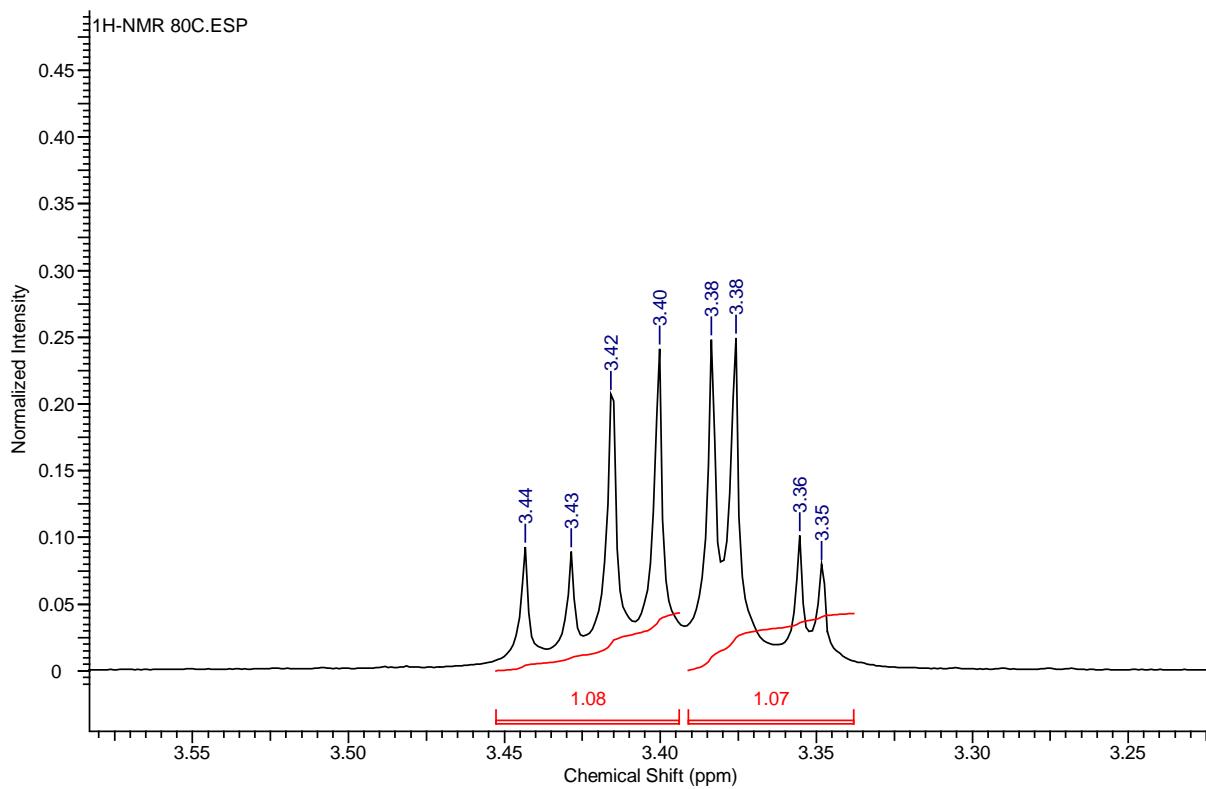
<sup>1</sup>H-NMR, <sup>13</sup>C-NMR, MS and IR data for compound **4a** Page 1 – 4

<sup>1</sup>H-NMR, <sup>13</sup>C-NMR, MS and IR data for compound **4b** Page 5 – 8

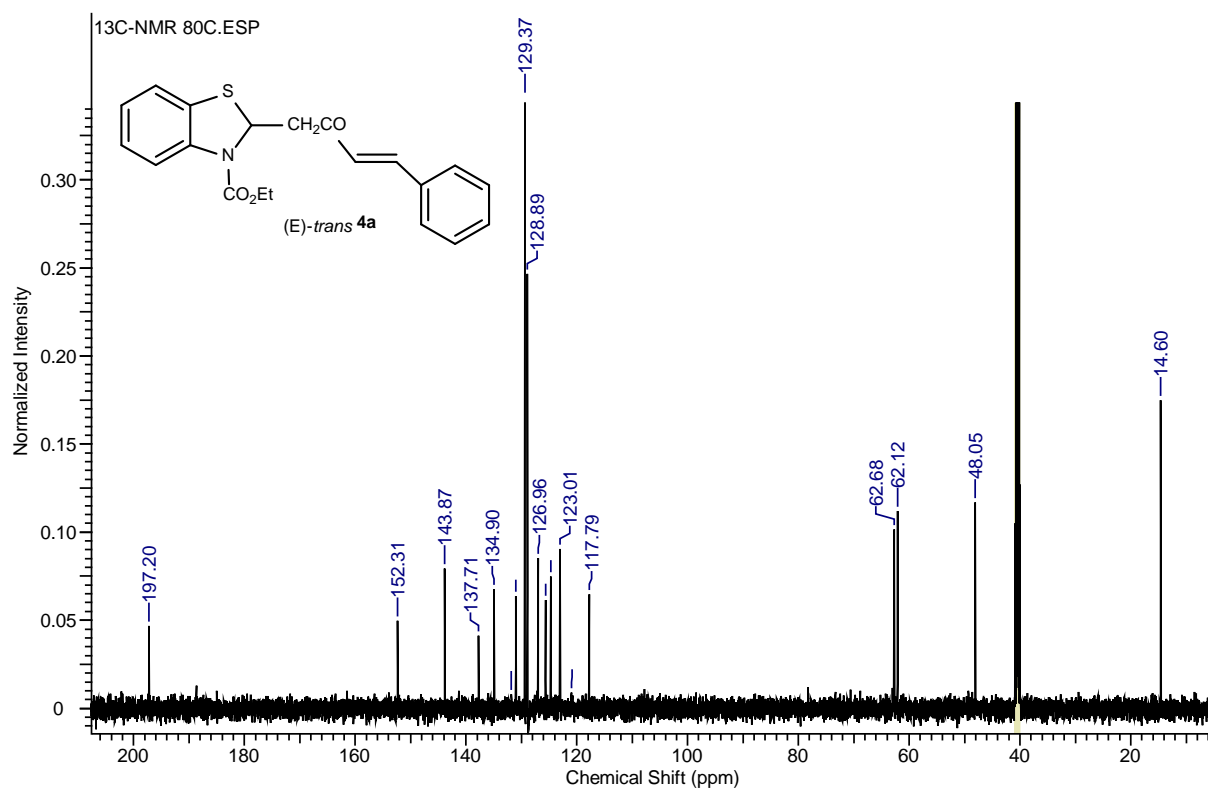
TLC separation of compounds **4a** and **4b** Page 9

Compound **4a** - <sup>1</sup>H-NMR spectra - DMSO-d<sub>6</sub>, 80 °C, 600 MHz

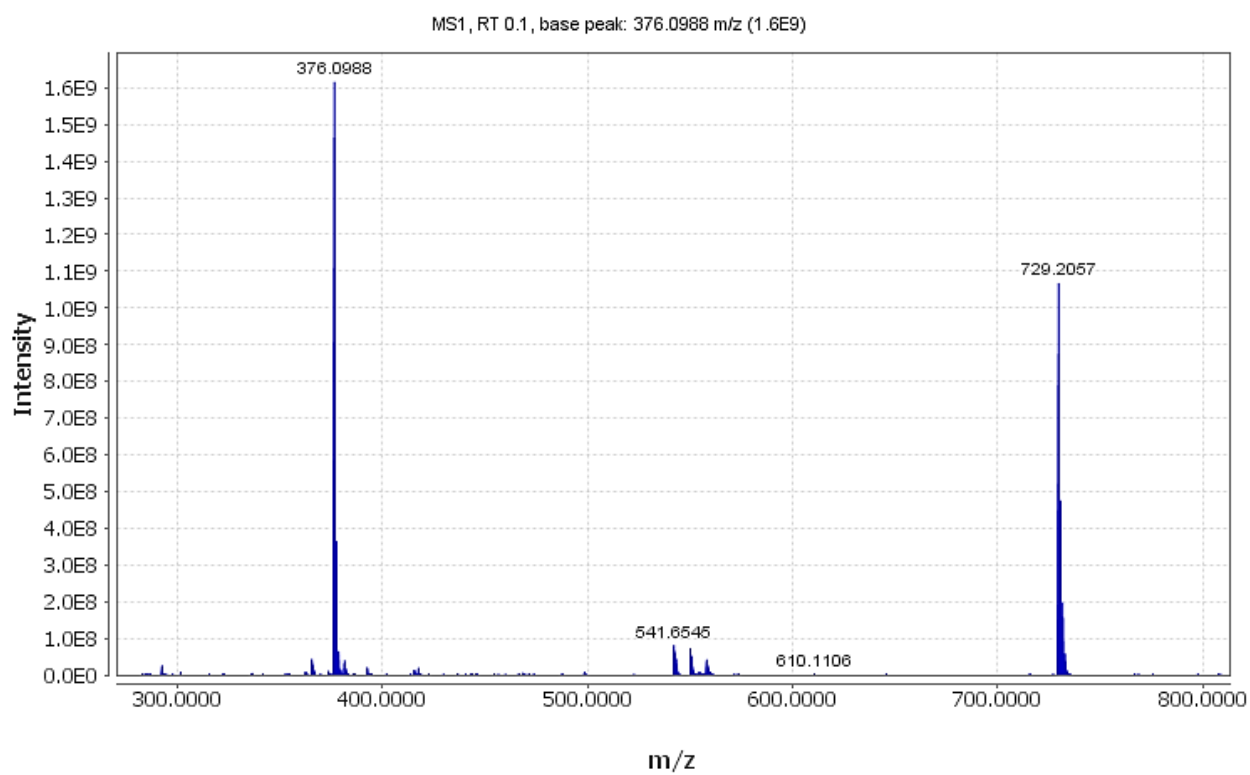




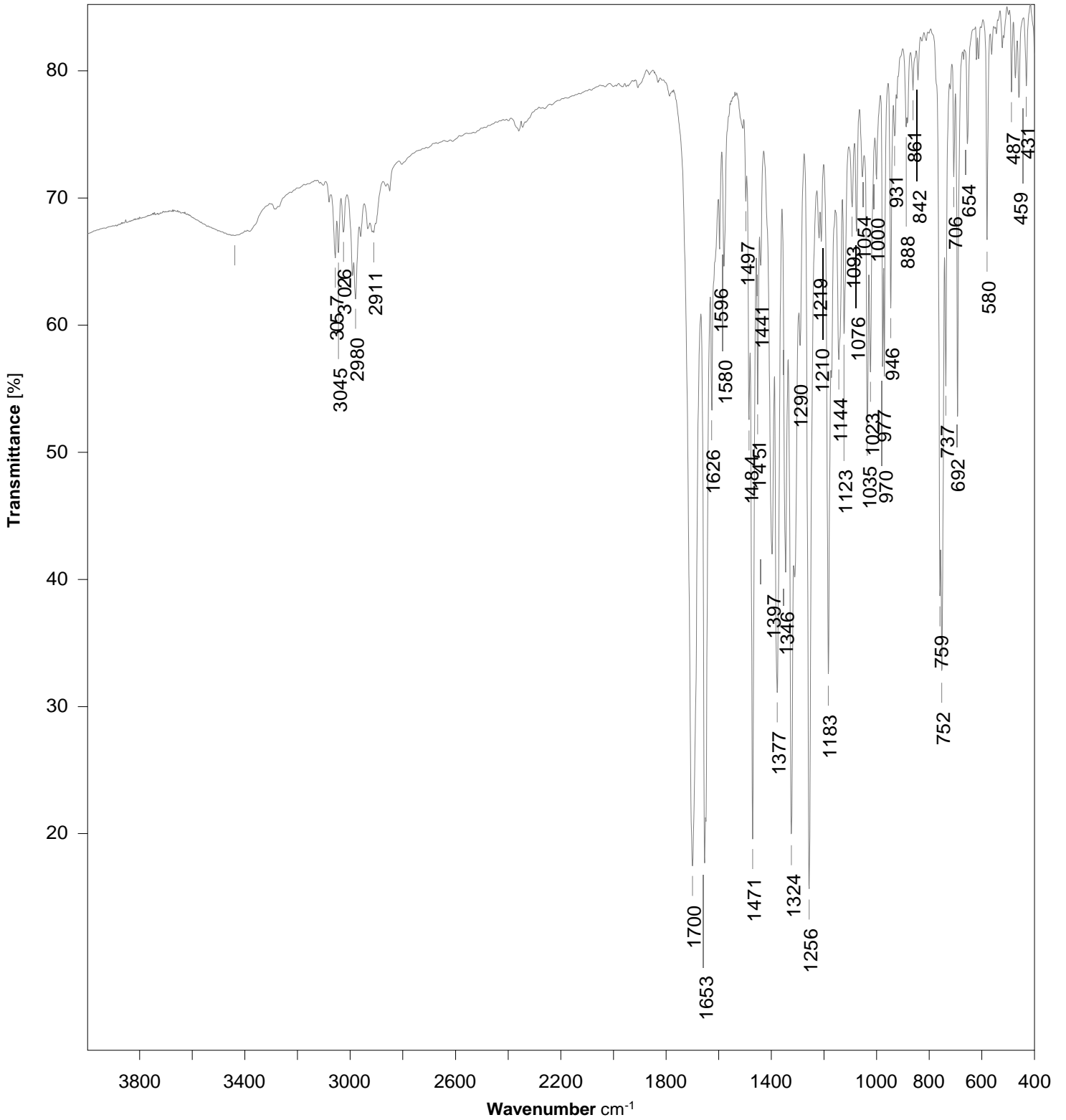
Compound **4a** -  $^{13}\text{C}$ -NMR spectra - DMSO- $d_6$ , 80 °C, 150 MHz



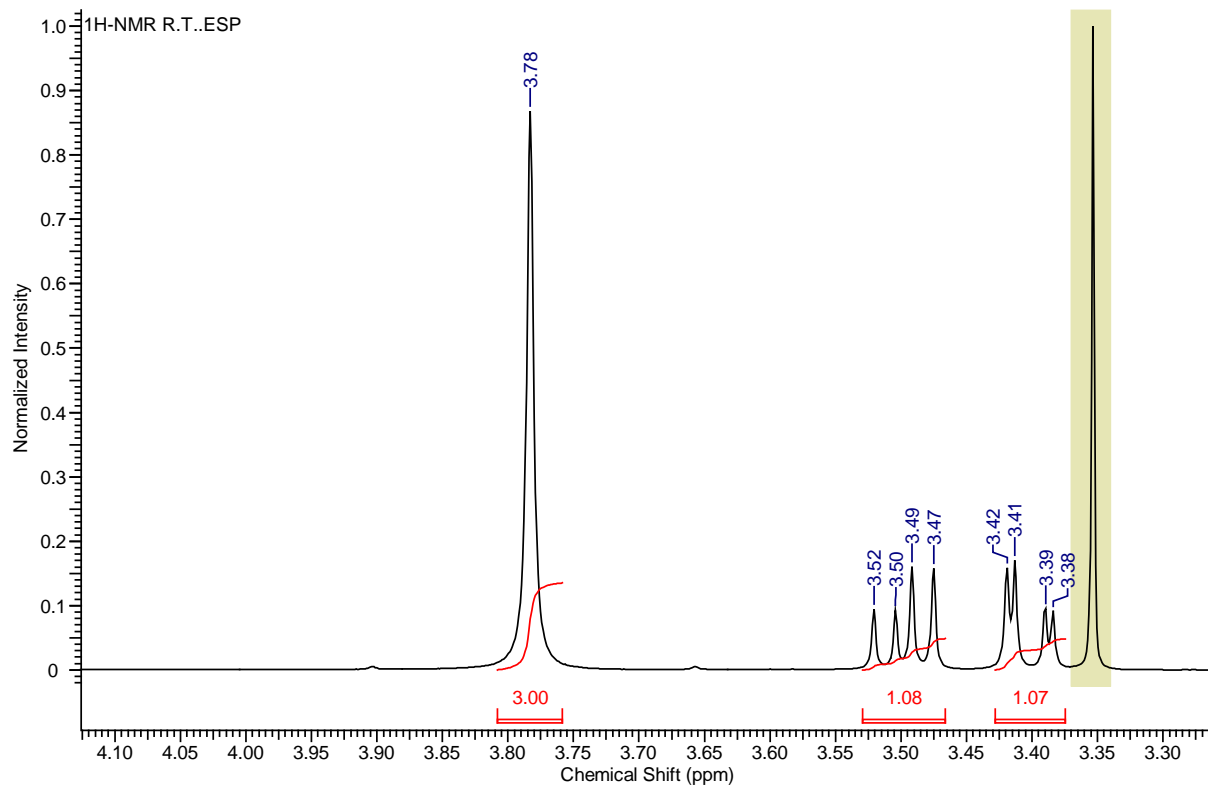
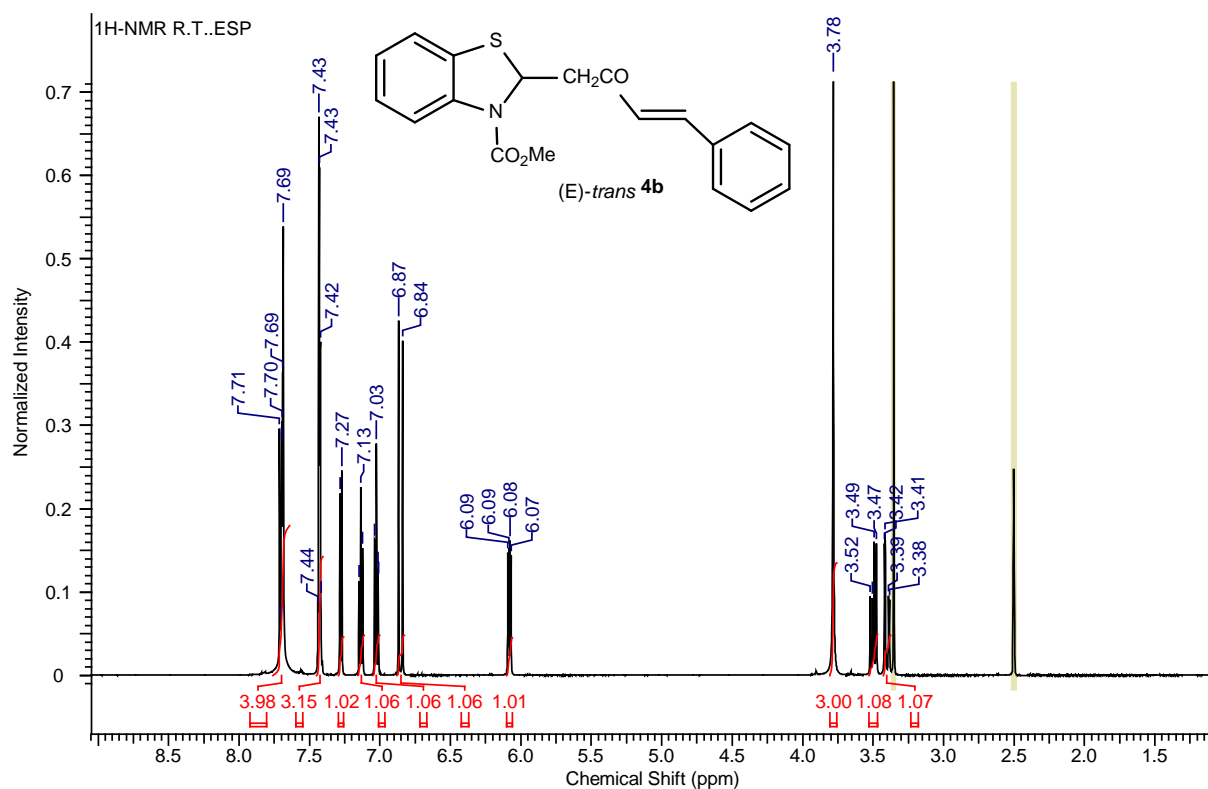
Compound **4a** - ESI-HRMS spectra,  $m/z$

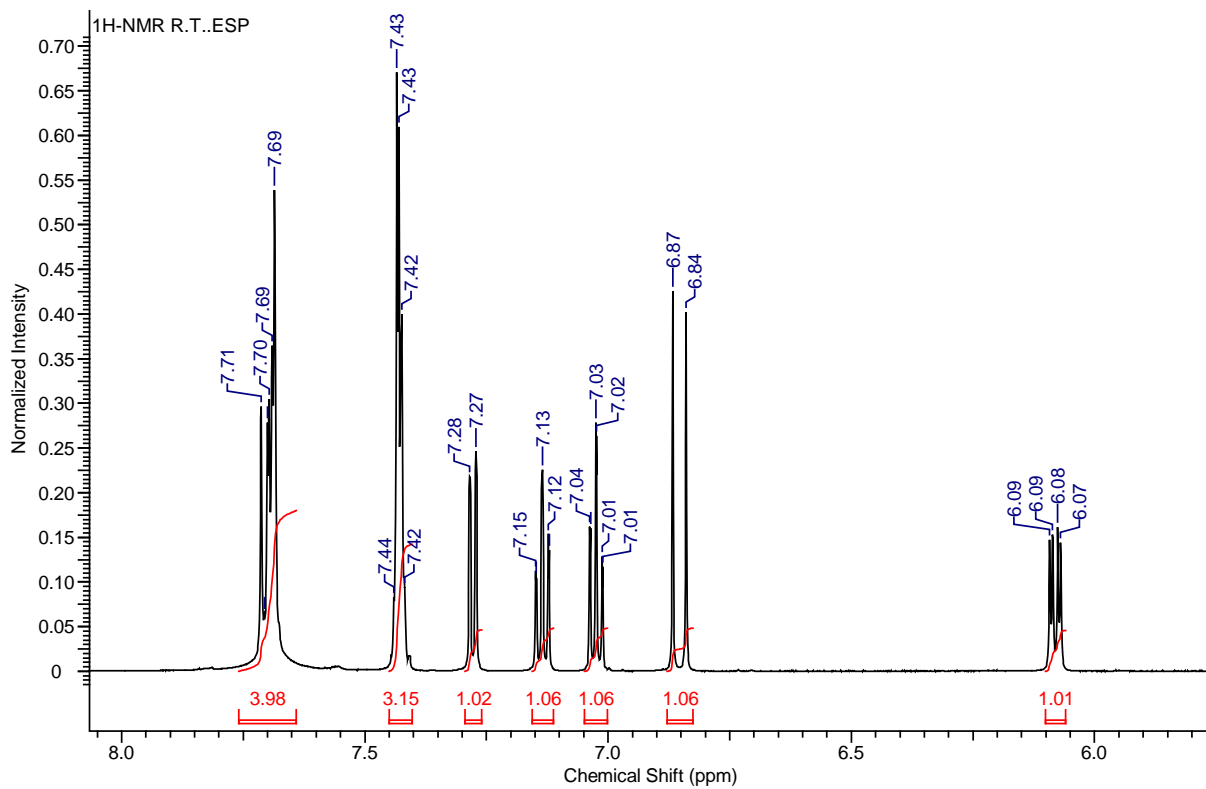


Compound **4a** - IR spectra, KBr tablet,  $\text{cm}^{-1}$

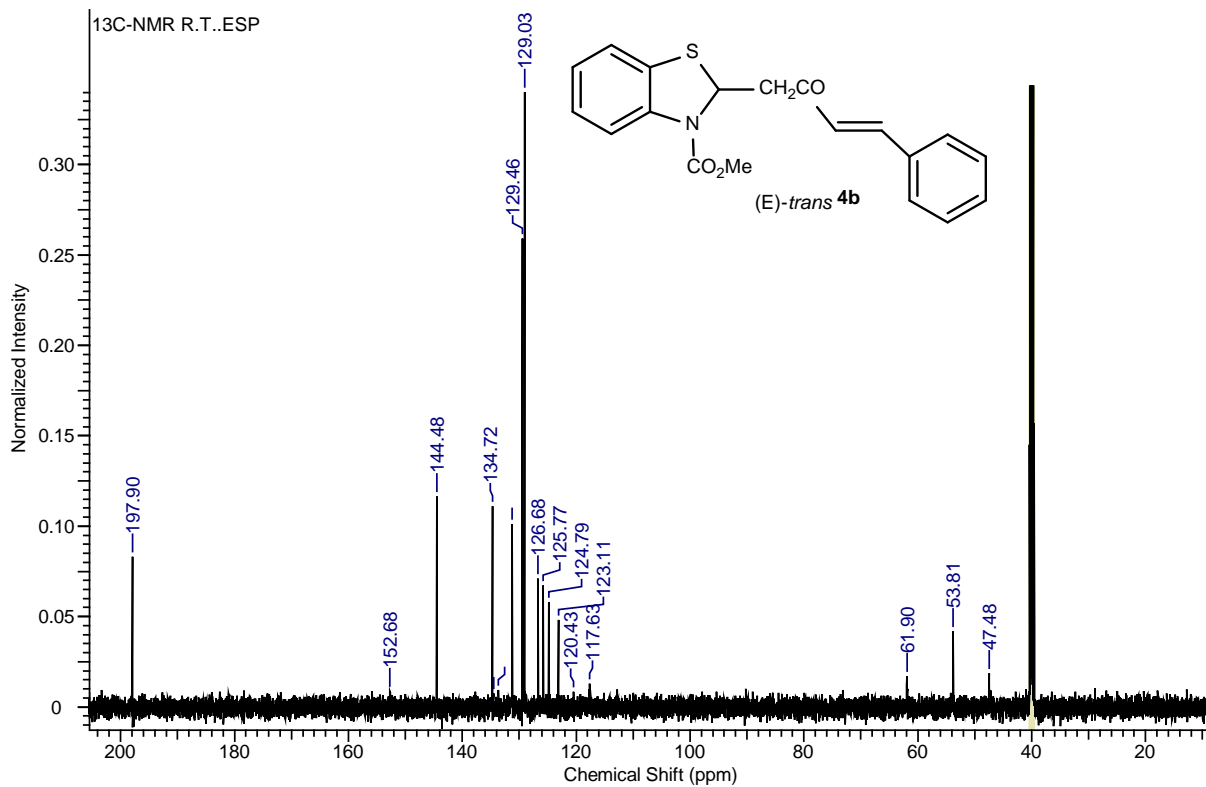


Compound **4b** -  $^1\text{H-NMR}$  spectra -  $\text{DMSO-d}_6$ , r.t., 600 MHz

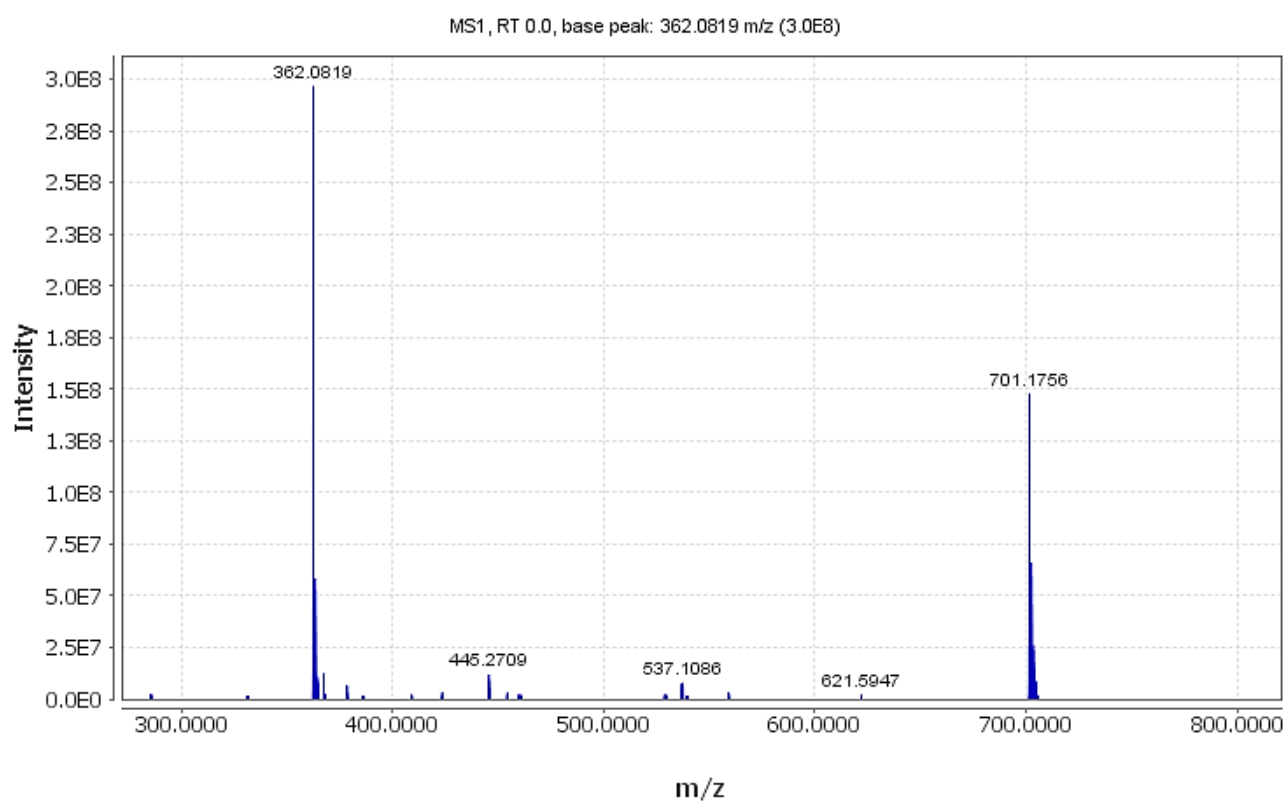




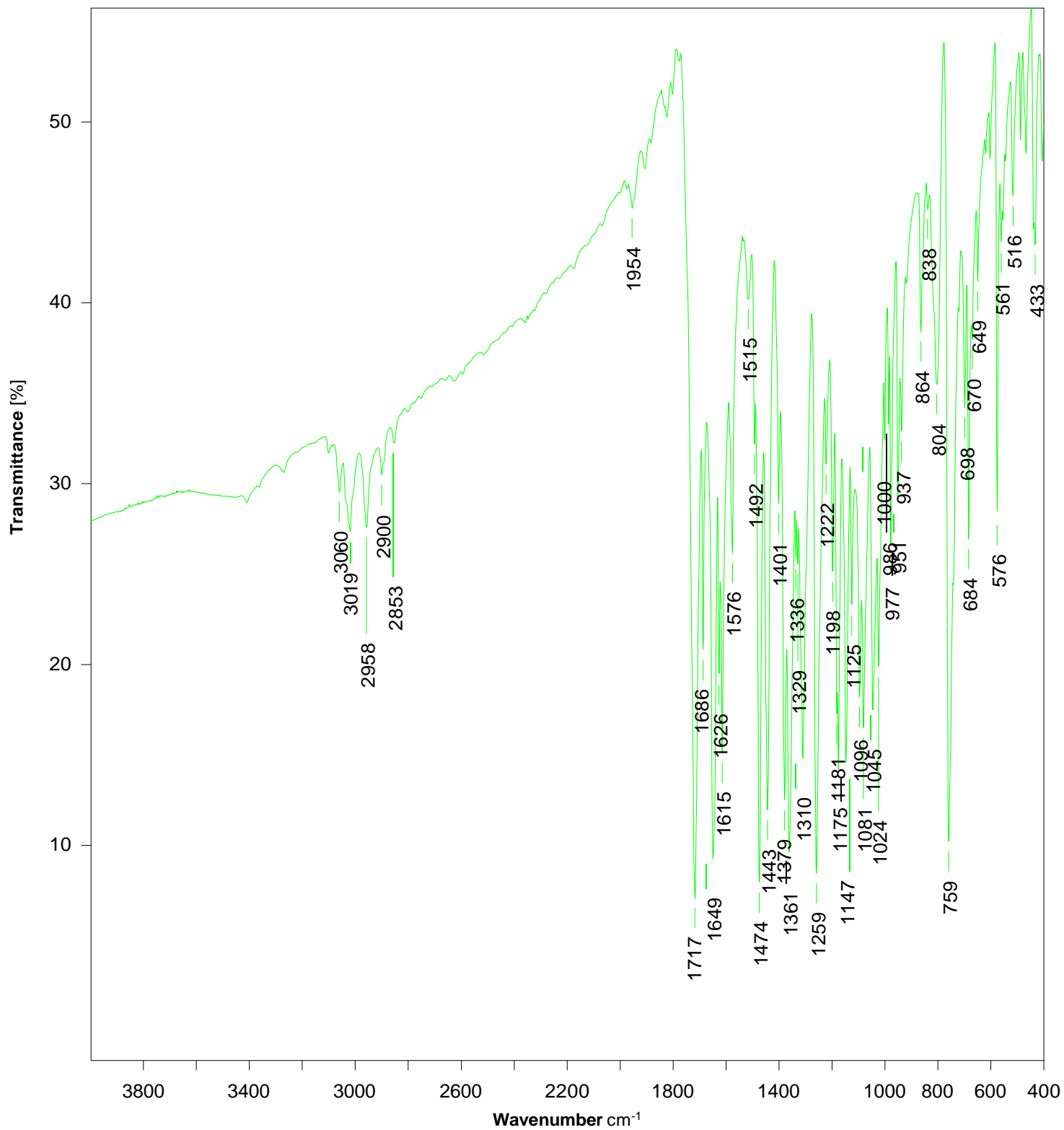
Compound **4b** -  $^{13}\text{C}$ -NMR spectra -  $\text{DMSO-d}_6$ , r.t., 150 MHz



# Compound **4b** - ESI-HRMS spectra, m/z



Compound **4b** - IR spectra, KBr tablet,  $\text{cm}^{-1}$



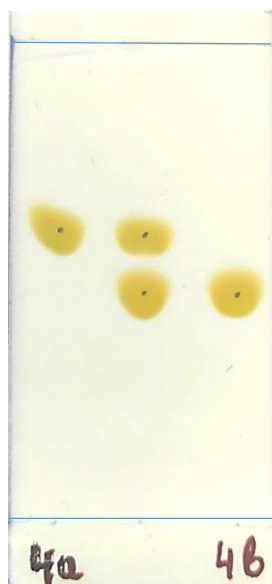


**TLC:**

Aluminium-backed Silica gel 60 sheets (Merck)

**Stain:**

Cerium sulfate



**4a**  $R_f = 0.61$  (petroleum:diethyl ether 2:1)

**4b**  $R_f = 0.48$  (petroleum:diethyl ether 2:1)