

Supplementary Materials

A New Family of Vinyl Selenocyanates with the Amide Function Based on the Reaction of Potassium Selenocyanate with 3-Trimethylsilyl-2-propynamides

Mikhail V. Andreev, Vladimir A. Potapov, Maxim V. Musalov, Lyudmila I. Larina*

A. E. Favorsky Irkutsk Institute of Chemistry, Siberian Division of The Russian Academy of Sciences, 1
Favorsky Str., Irkutsk 664033, Russian Federation; miand@irioch.irk.ru (M.V.A.); v.a.potapov@mail.ru (V.A.P.);
musalov_maxim@irioch.irk.ru (M.V.M.)

* Correspondence: larina@irioch.irk.ru

Table of Contents

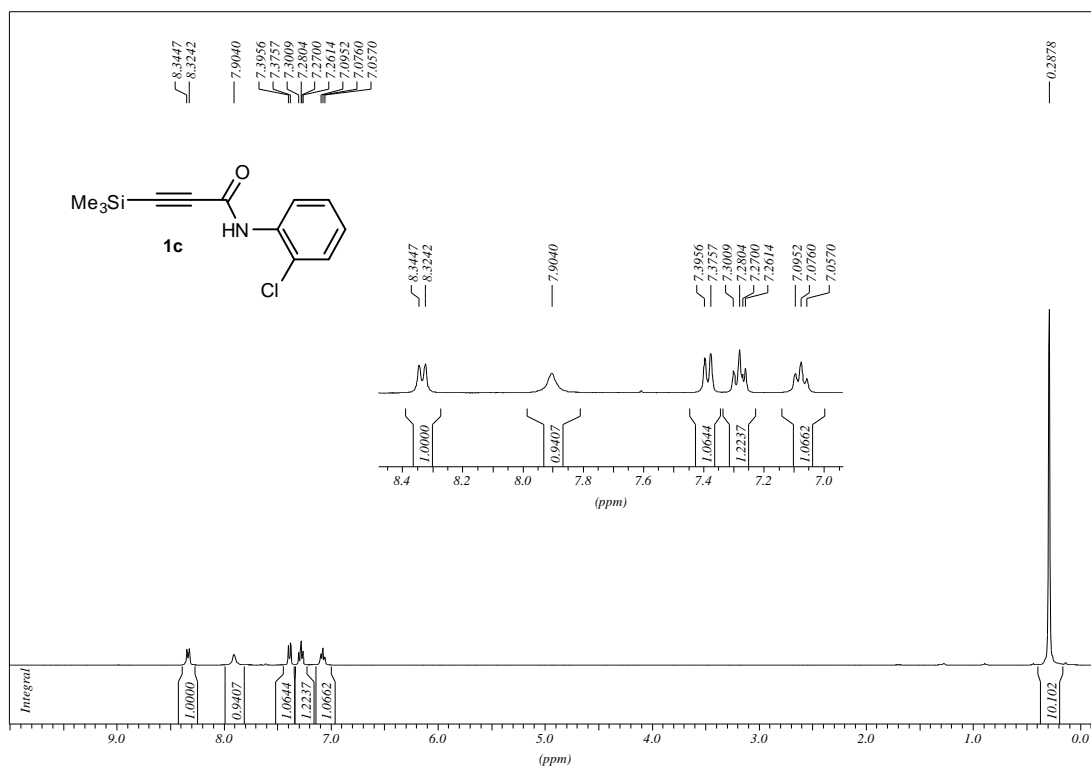
General Information	2
^1H and ^{13}C-NMR Spectra of Silyl-2-propynamides 1c, 1i-k	3-6
^1H and ^{13}C-NMR Spectra of Selenocyanates 2a-l	7-18

General Information

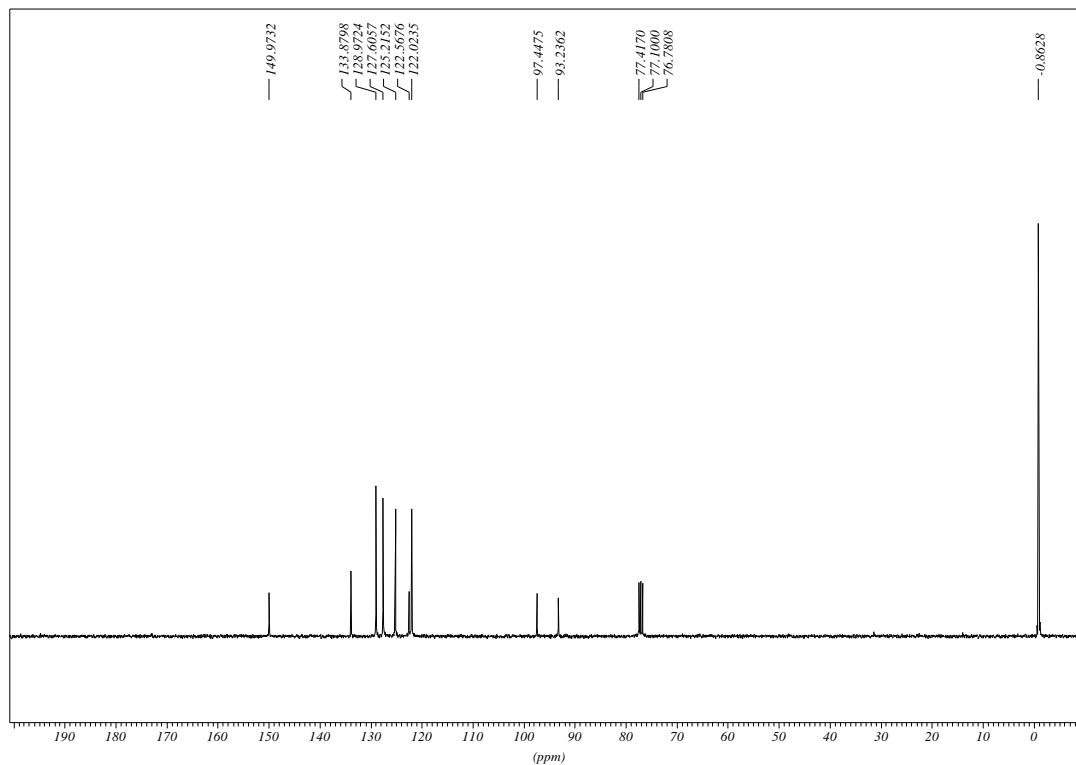
The ^1H (400.1 MHz), ^{13}C (100.6 MHz), ^{77}Se (76.3 MHz), ^{29}Si (79.5 MHz) NMR and ^{15}N (40.6 MHz) NMR spectra (the spectra can be found in Supplementary Materials) were recorded on a Bruker DPX-400 spectrometer (Bruker BioSpin GmbH, Rheinstetten, Germany) in CDCl_3 or $\text{DMSO}-d_6$ solutions and referred to the residual solvent peaks (CDCl_3 , $\delta = 7.27$ and 77.1 ppm; $\text{DMSO}-d_6$, $\delta = 2.50$ and 39.6 ppm for ^1H - and ^{13}C -NMR, respectively), tetramethylsilane (^{29}Si), nitromethane (^{15}N) and dimethyl selenide (^{77}Se).

¹H and ¹³C NMR Spectra of 3-trimethylsilyl-2-propynamides **1c**, **1i-k**

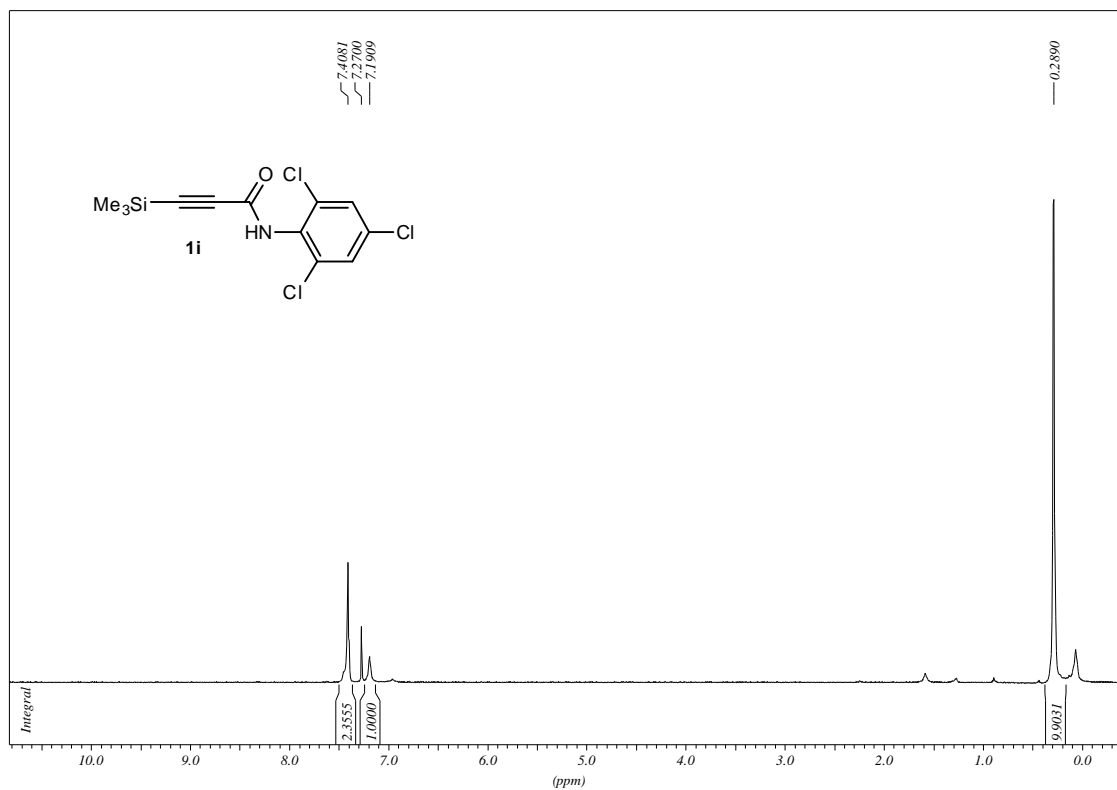
¹H-NMR (400 MHz, CDCl₃, 298K) of the compound **1c**



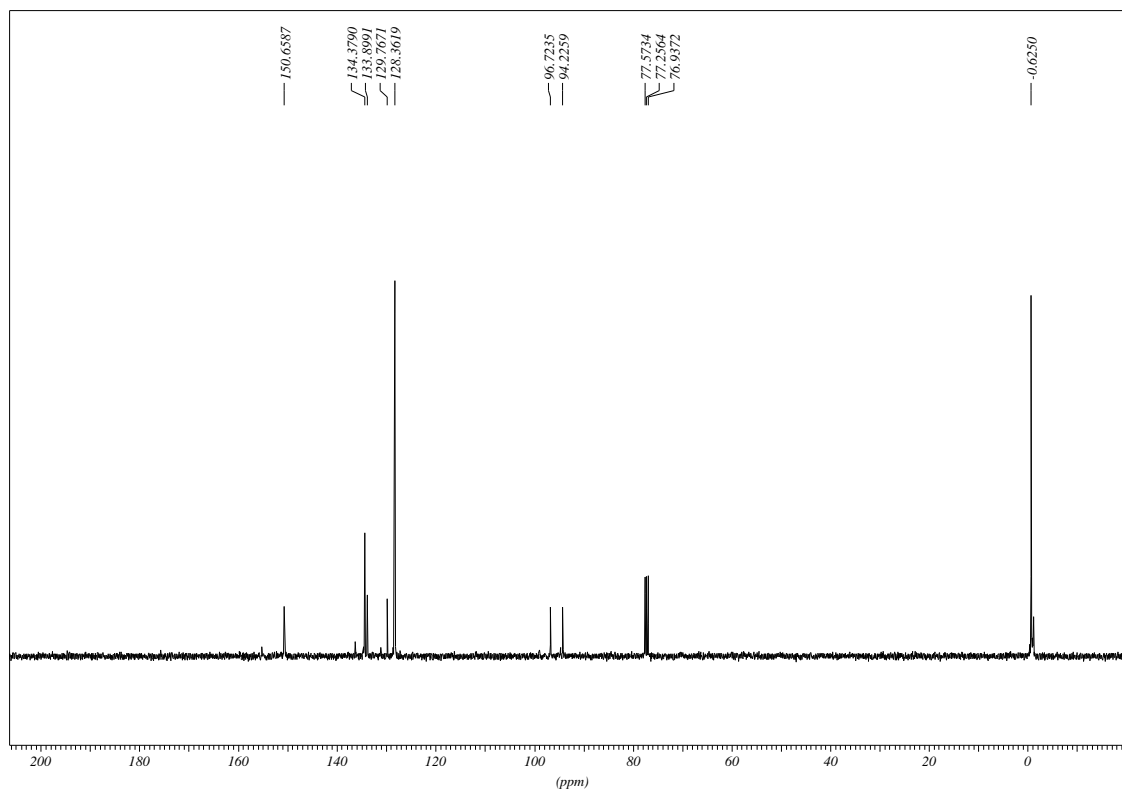
¹³C-NMR (100 MHz, CDCl₃, 298K) of the compound **1c**



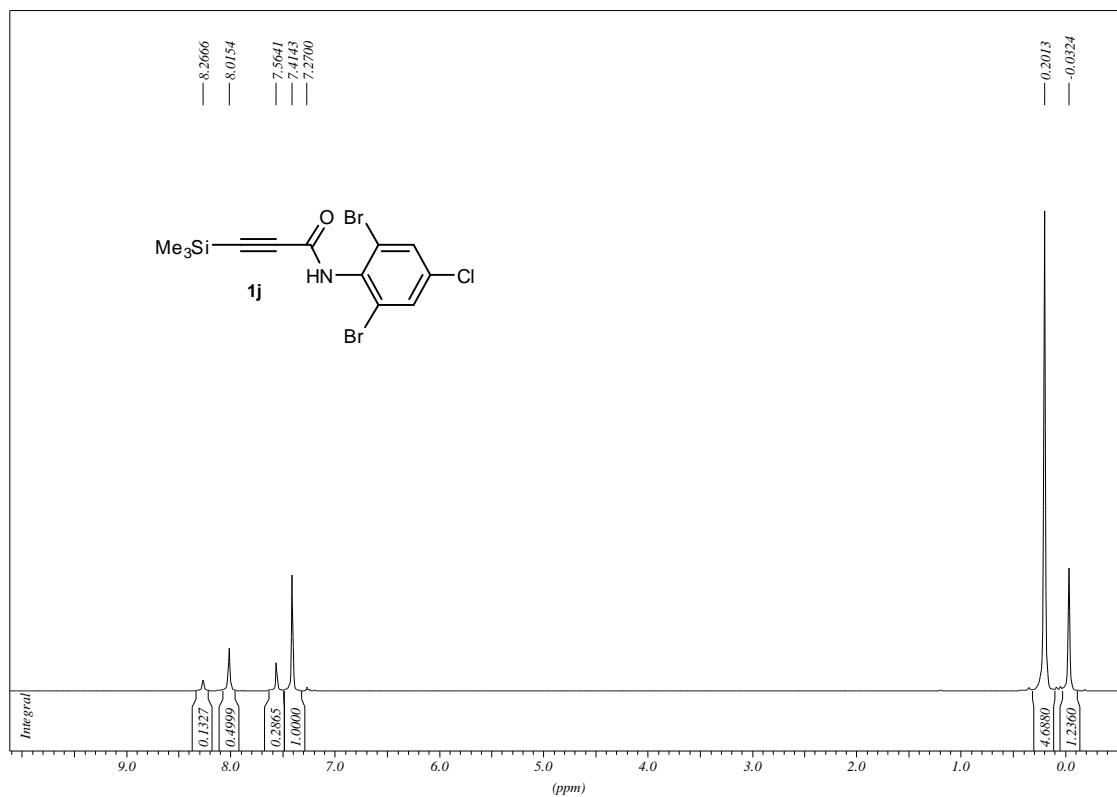
^1H -NMR (400 MHz, CDCl_3 , 298K) of the compound **1i** (a mixture of rotamers)



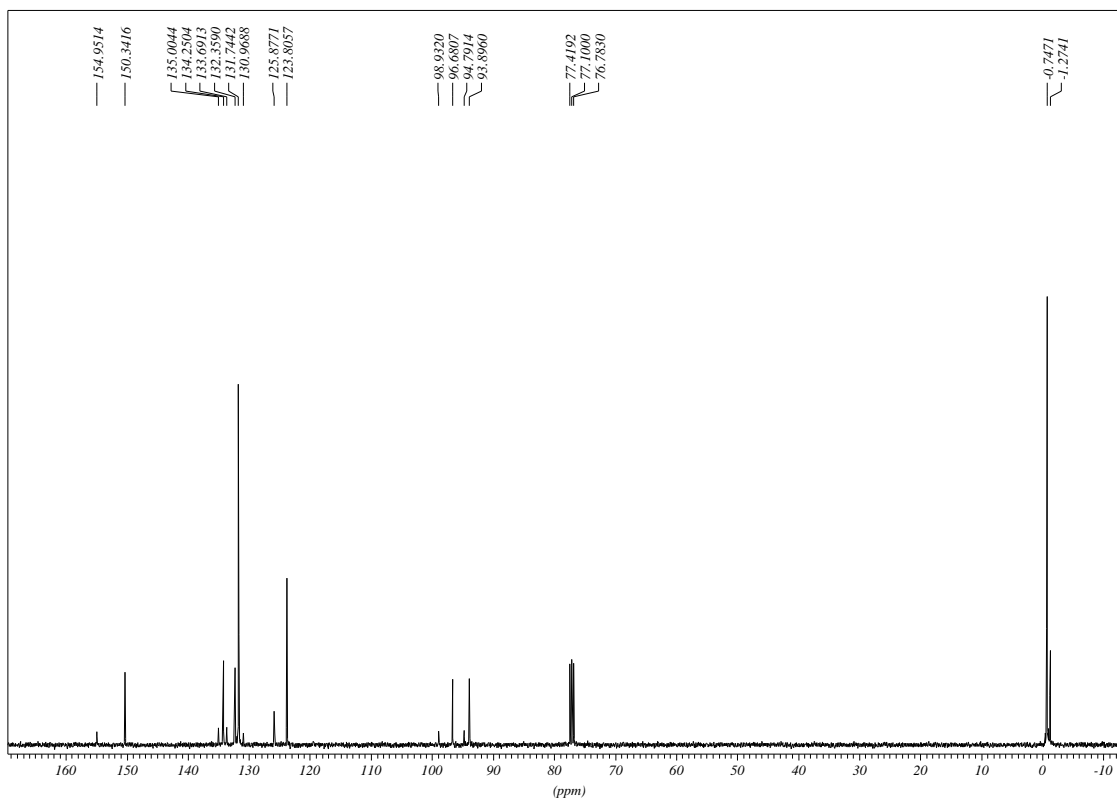
^{13}C -NMR (100 MHz, CDCl_3 , 298K) of the compound **1i** (a mixture of rotamers)



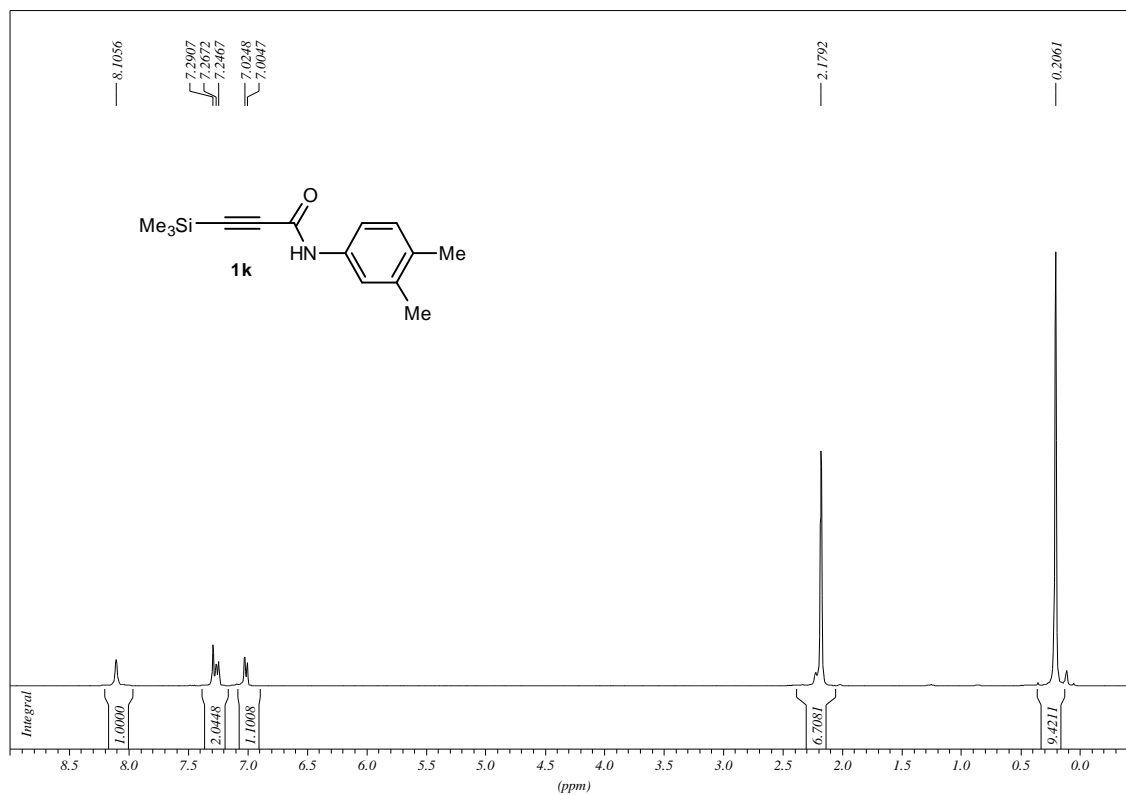
^1H -NMR (400 MHz, CDCl_3 , 298K) of the compound **1j** (a mixture of rotamers)



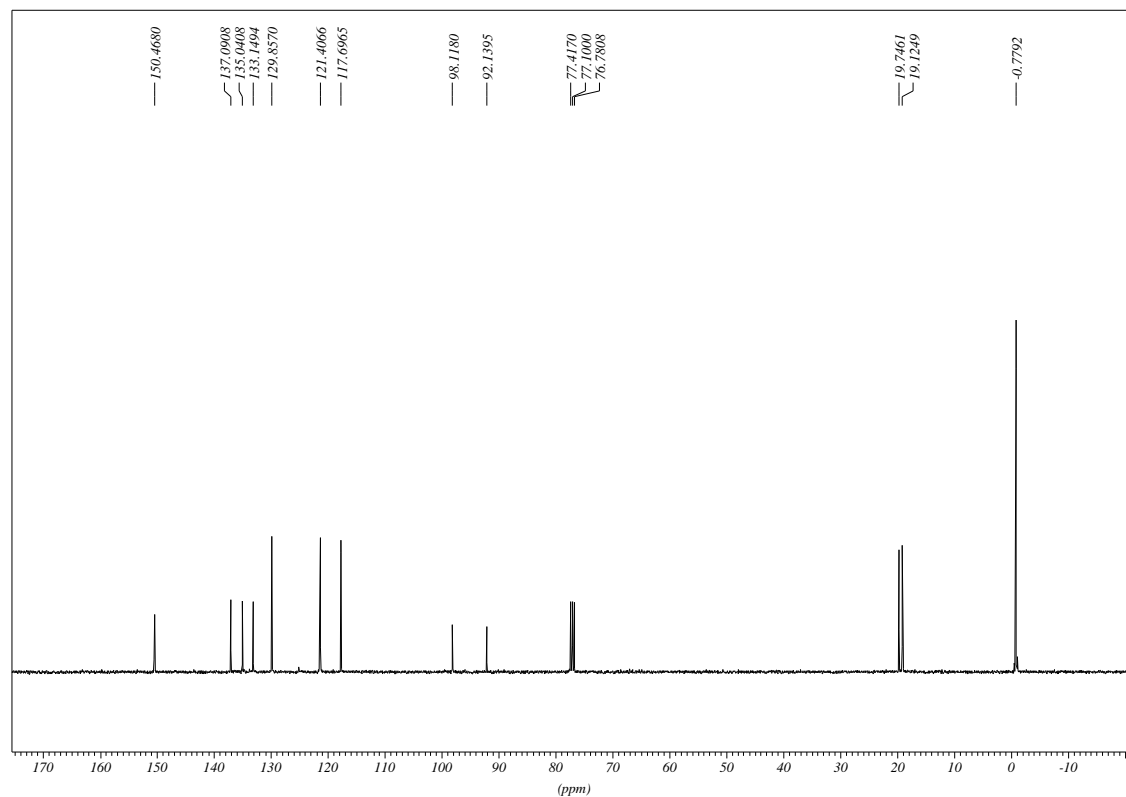
^{13}C -NMR (100 MHz, CDCl_3 , 298K) of the compound **1j** (a mixture of rotamers)



$^1\text{H-NMR}$ (400 MHz, CDCl_3 , 298K) of the compound **1k**

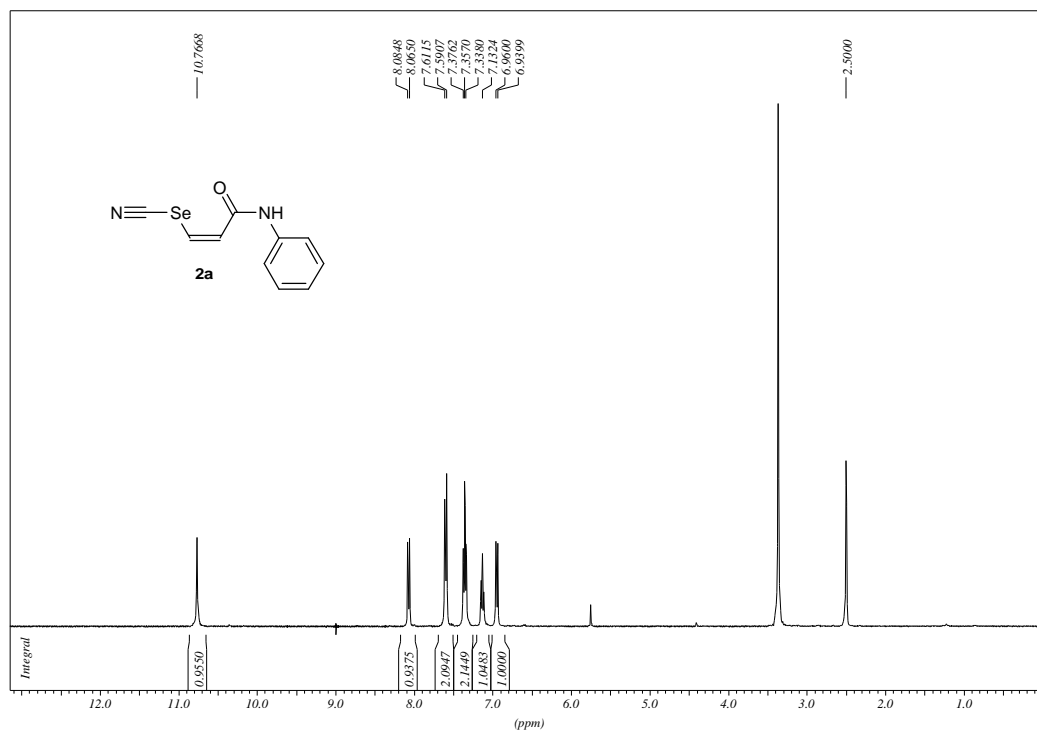


$^{13}\text{C-NMR}$ (100 MHz, CDCl_3 , 298K) of the compound **1k**

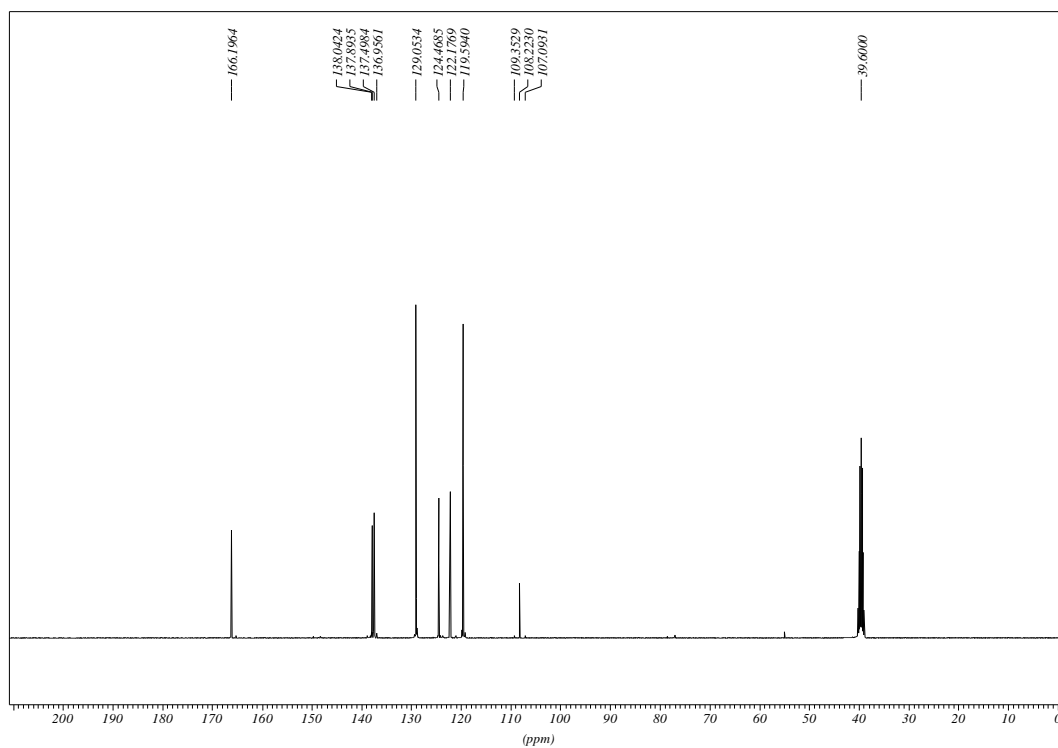


^1H and ^{13}C NMR Spectra of Selenocyanates 2a-l

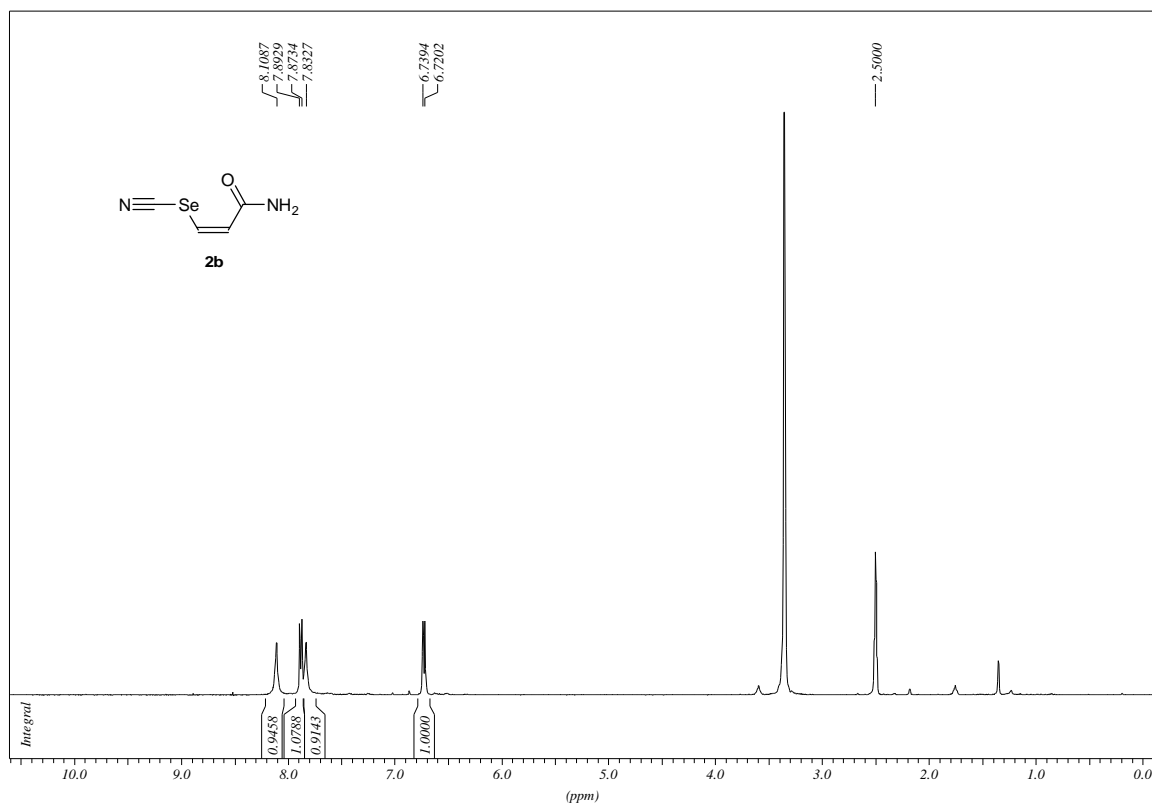
^1H -NMR (400 MHz, $\text{DMSO}-d_6$, 298K) of the compound **2a**



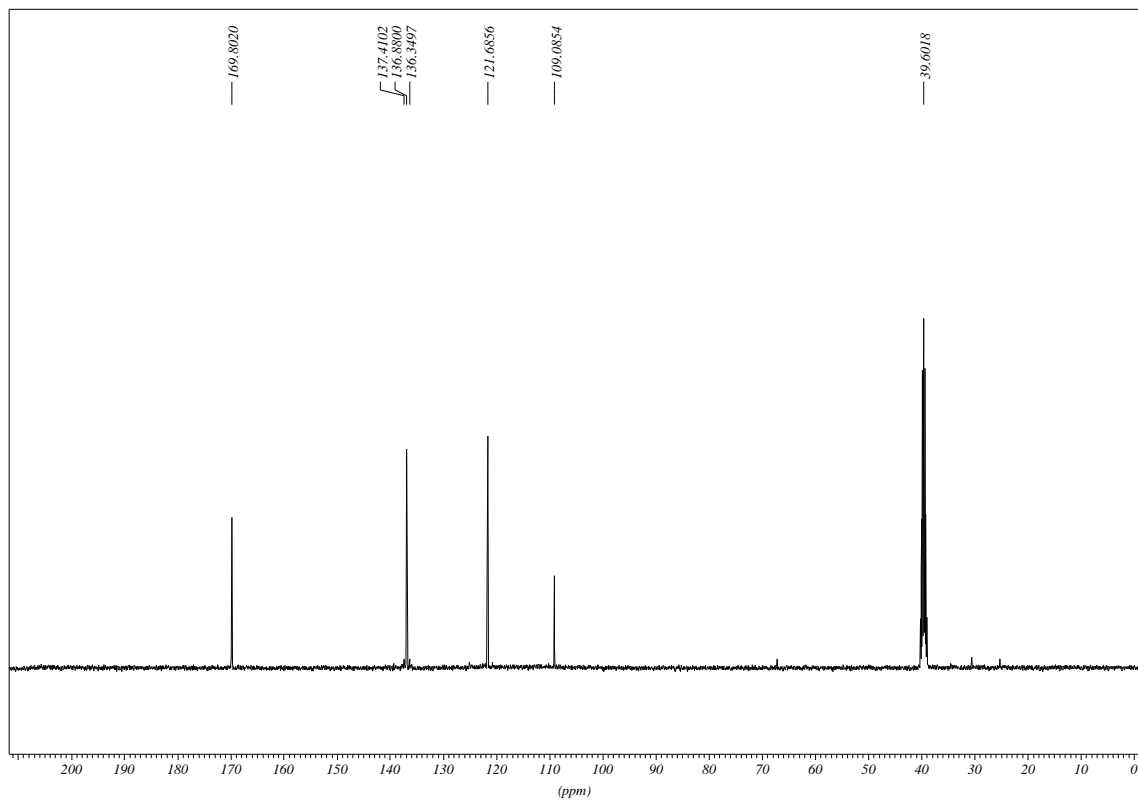
^{13}C -NMR (100 MHz, $\text{DMSO}-d_6$, 298K) of the compound **2a**



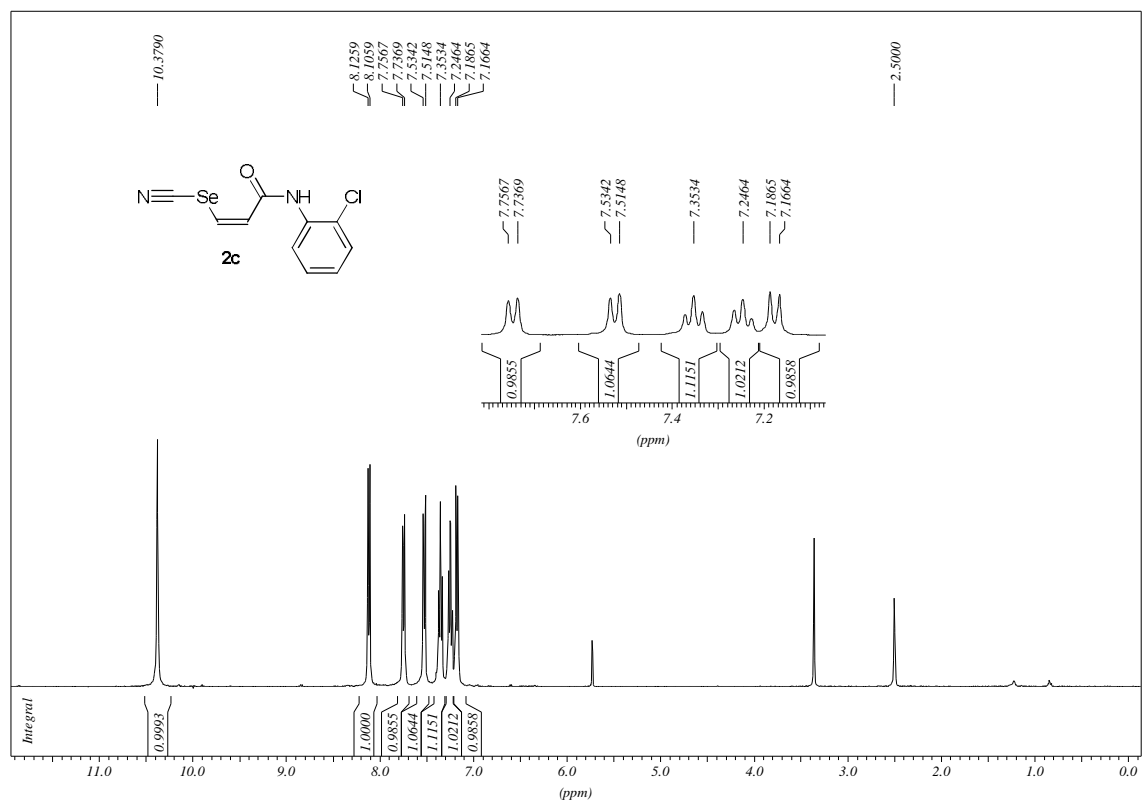
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2b**



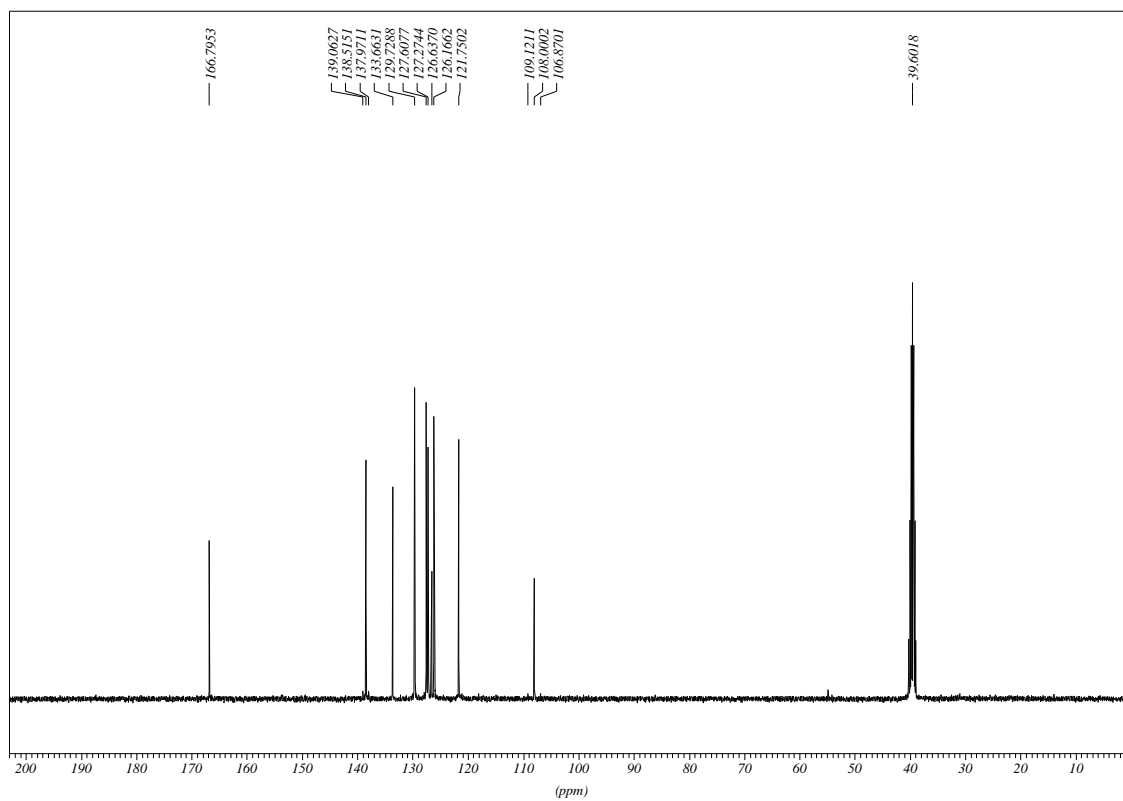
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2b**



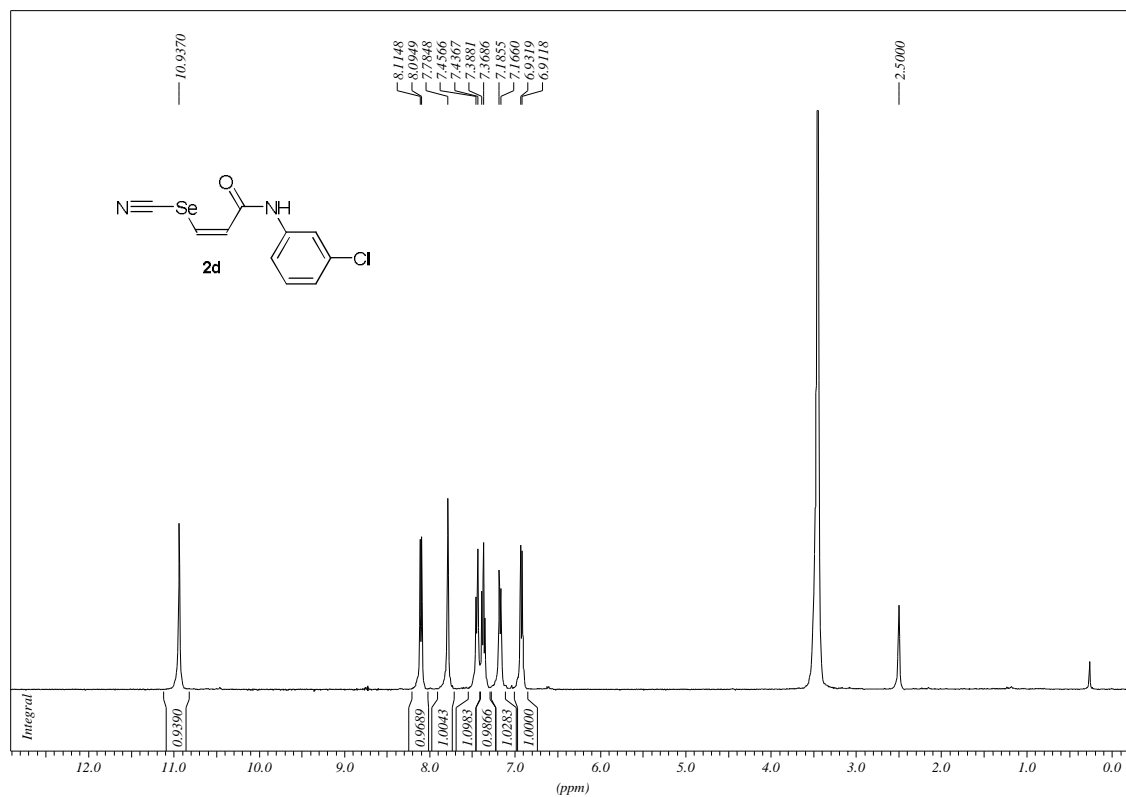
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2c**



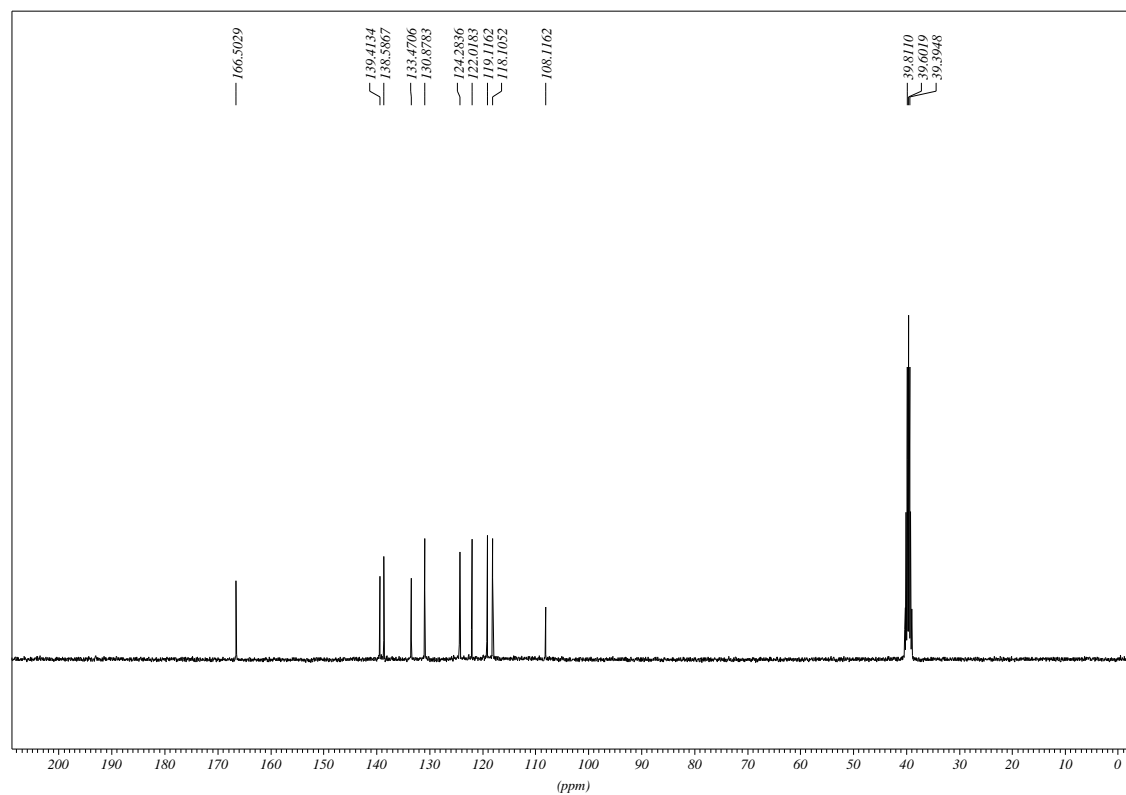
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2c**



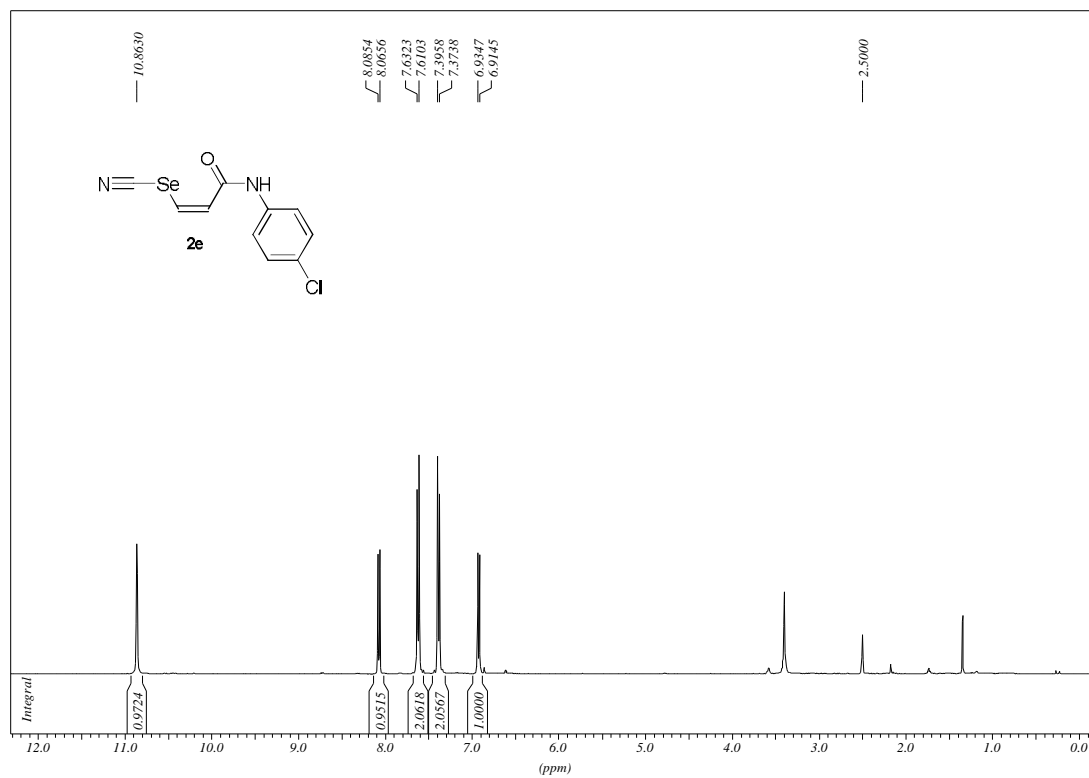
^1H -NMR (400 MHz, $\text{DMSO}-d_6$, 298K) of the compound **2d**



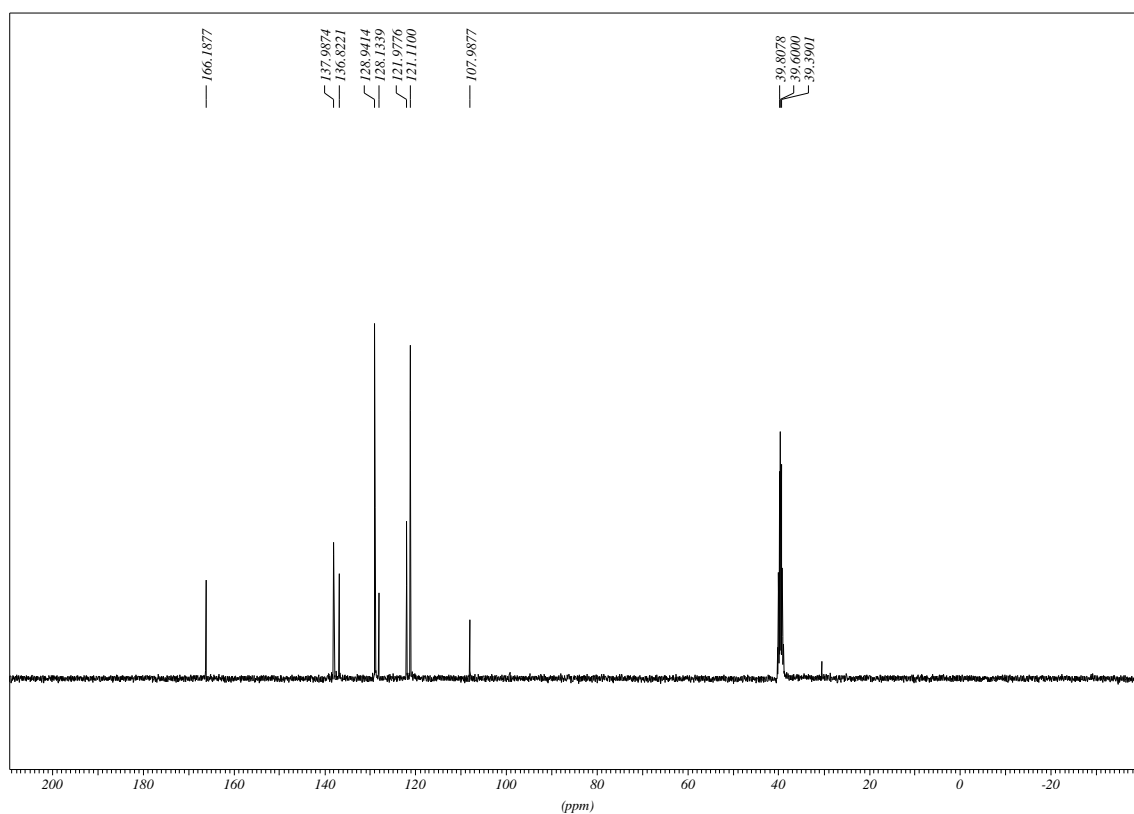
^{13}C -NMR (100 MHz, $\text{DMSO}-d_6$, 298K) of the compound **2d**



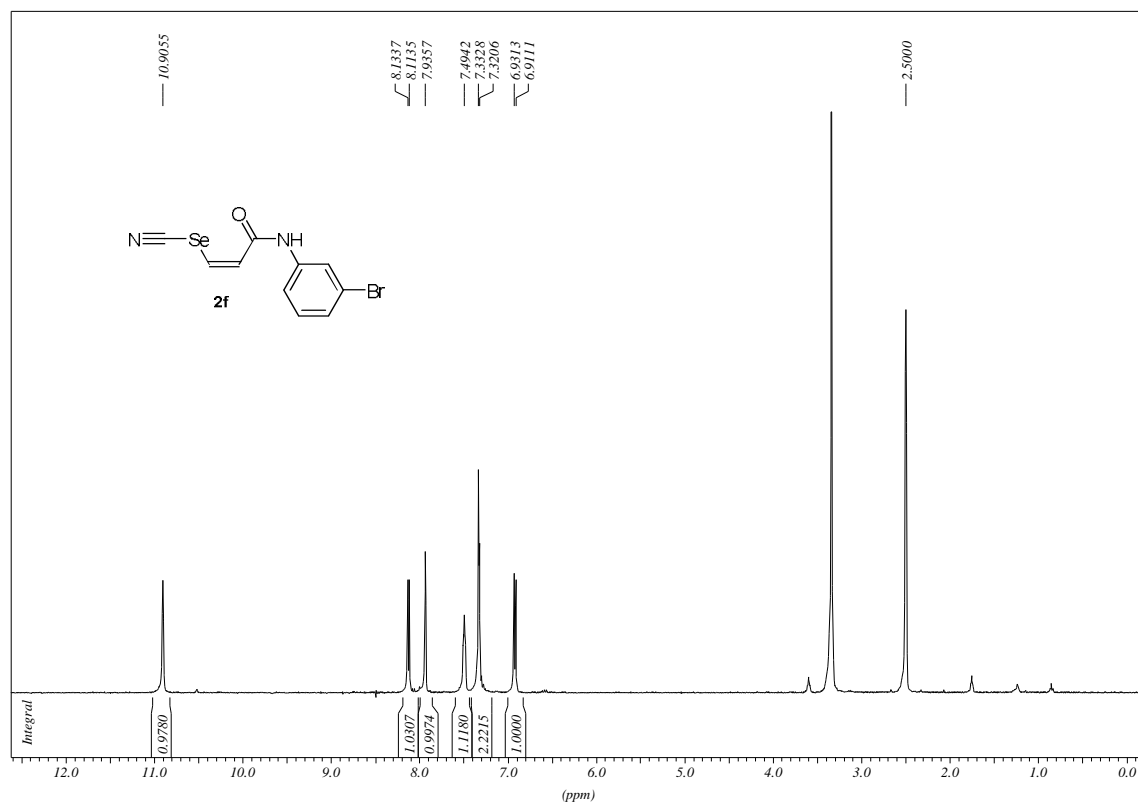
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2e**



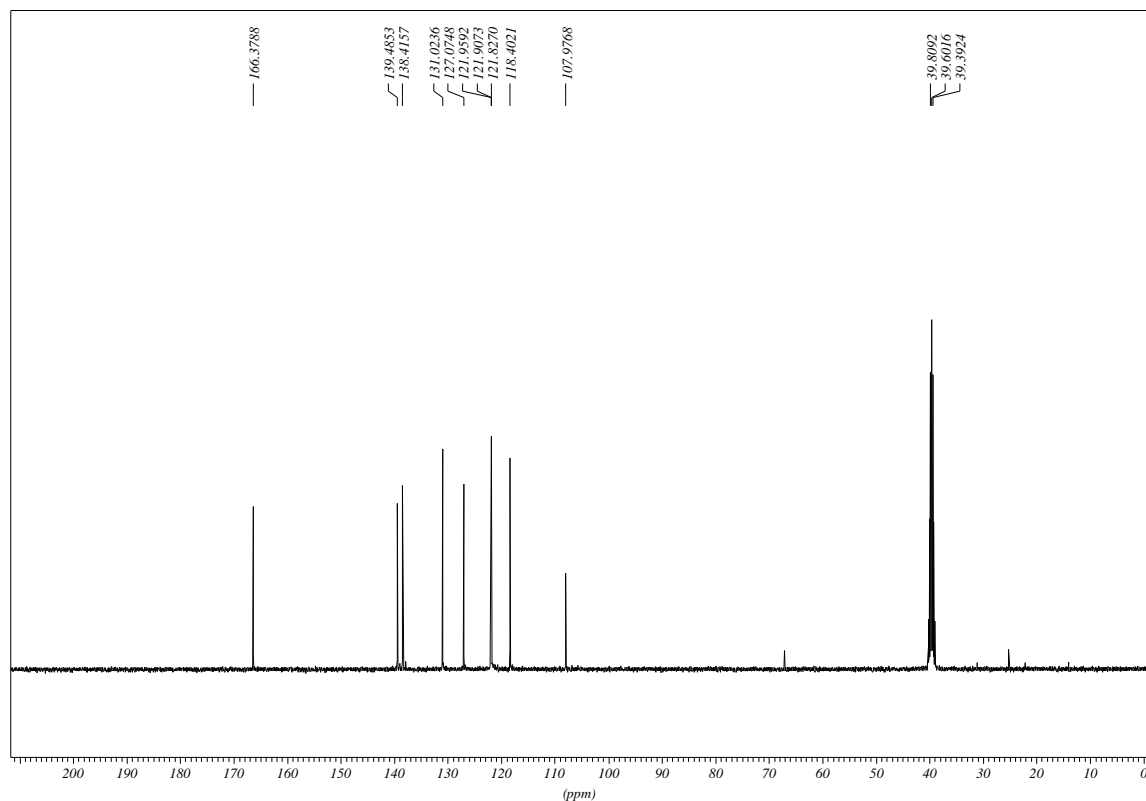
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2e**



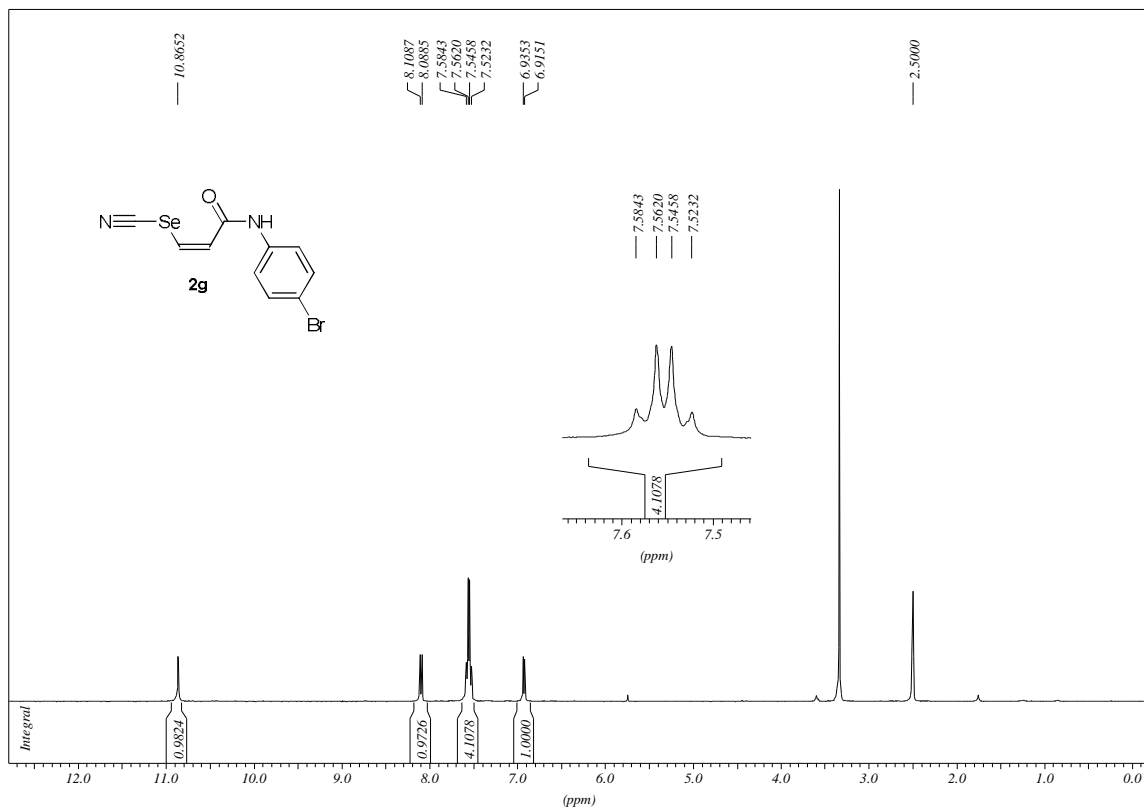
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2f**



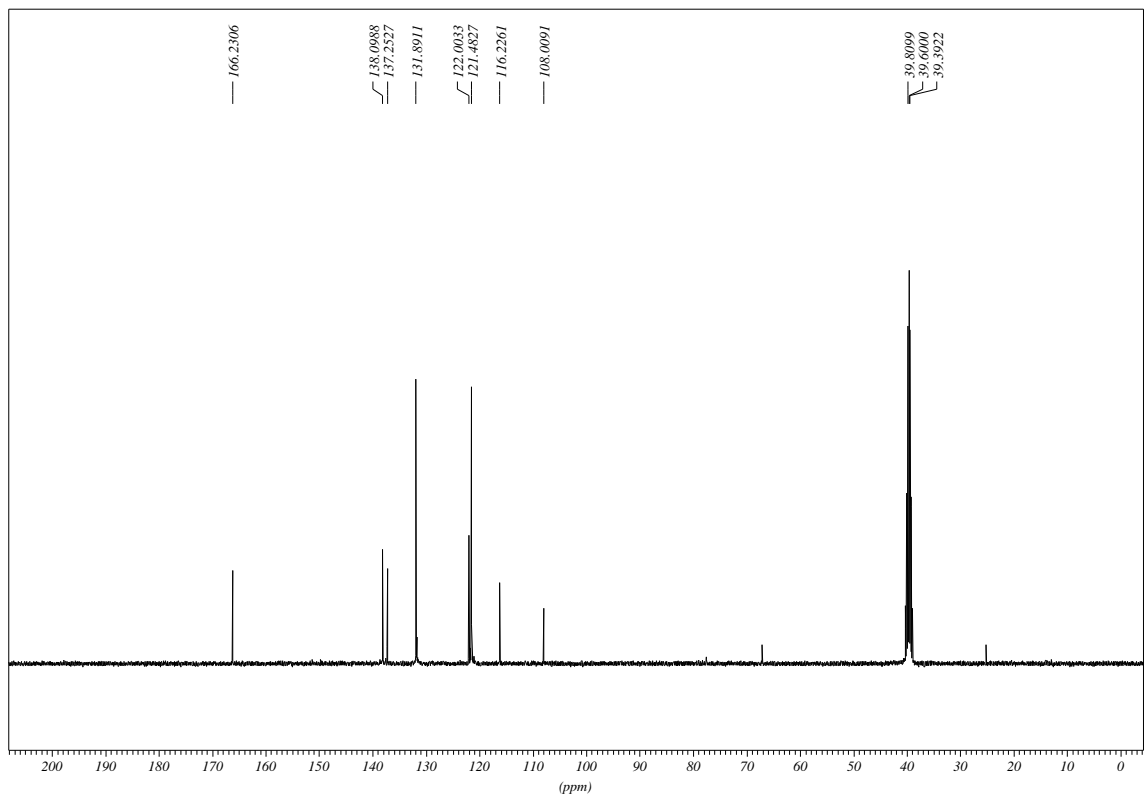
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2f**



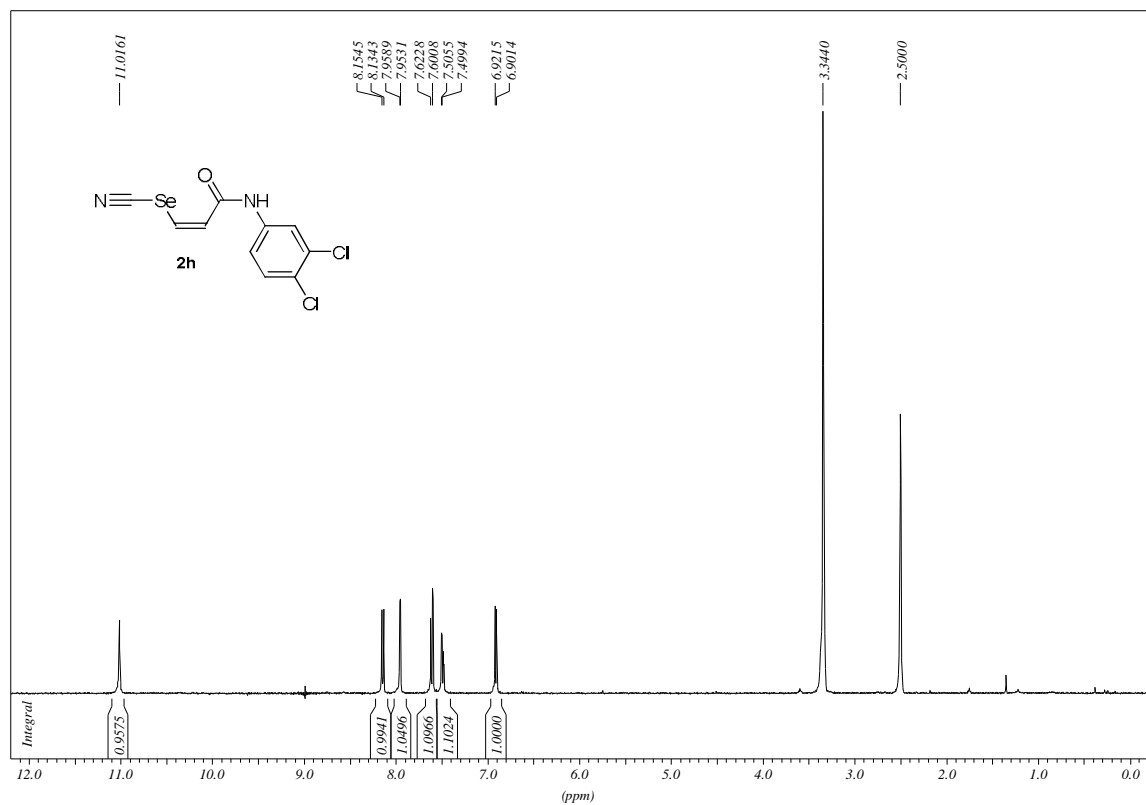
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2g**



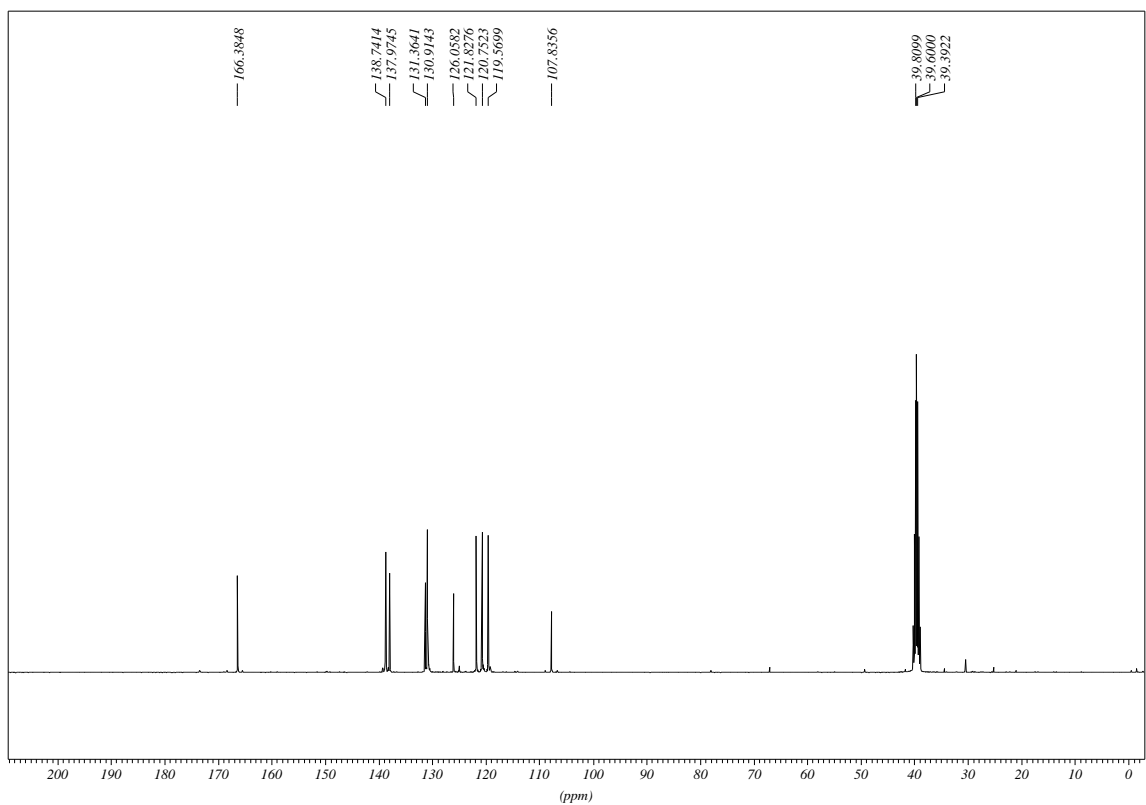
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2g**



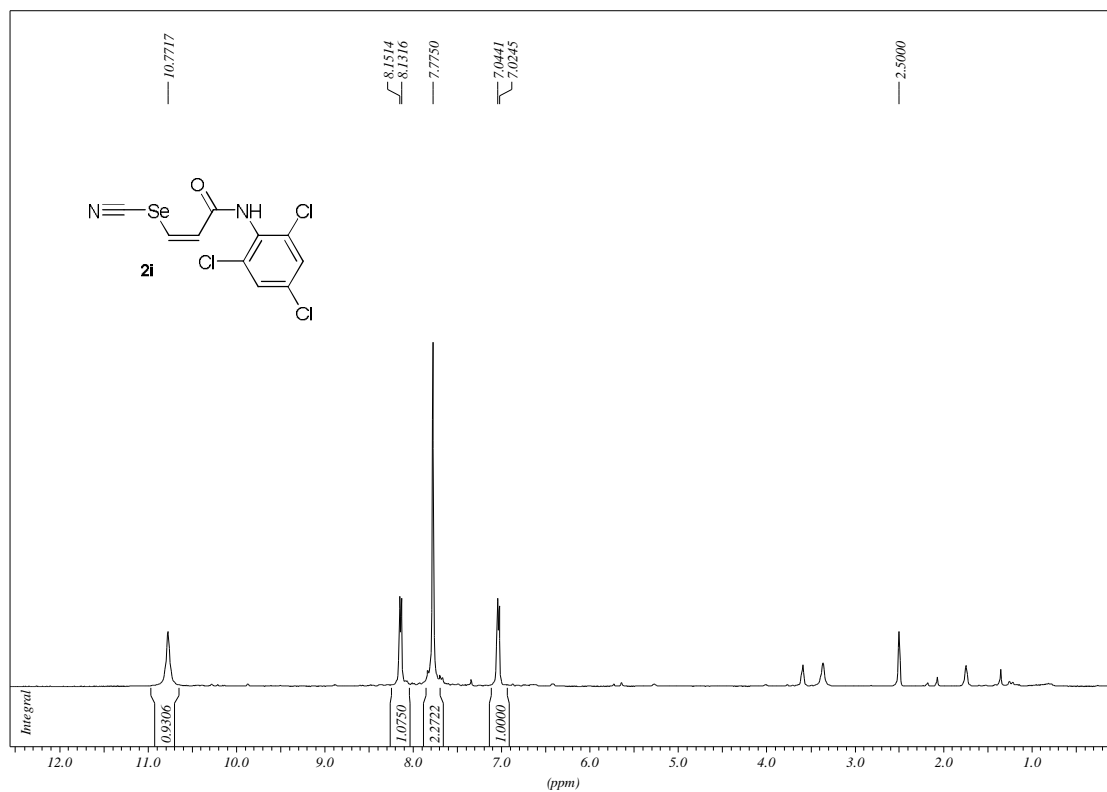
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2h**



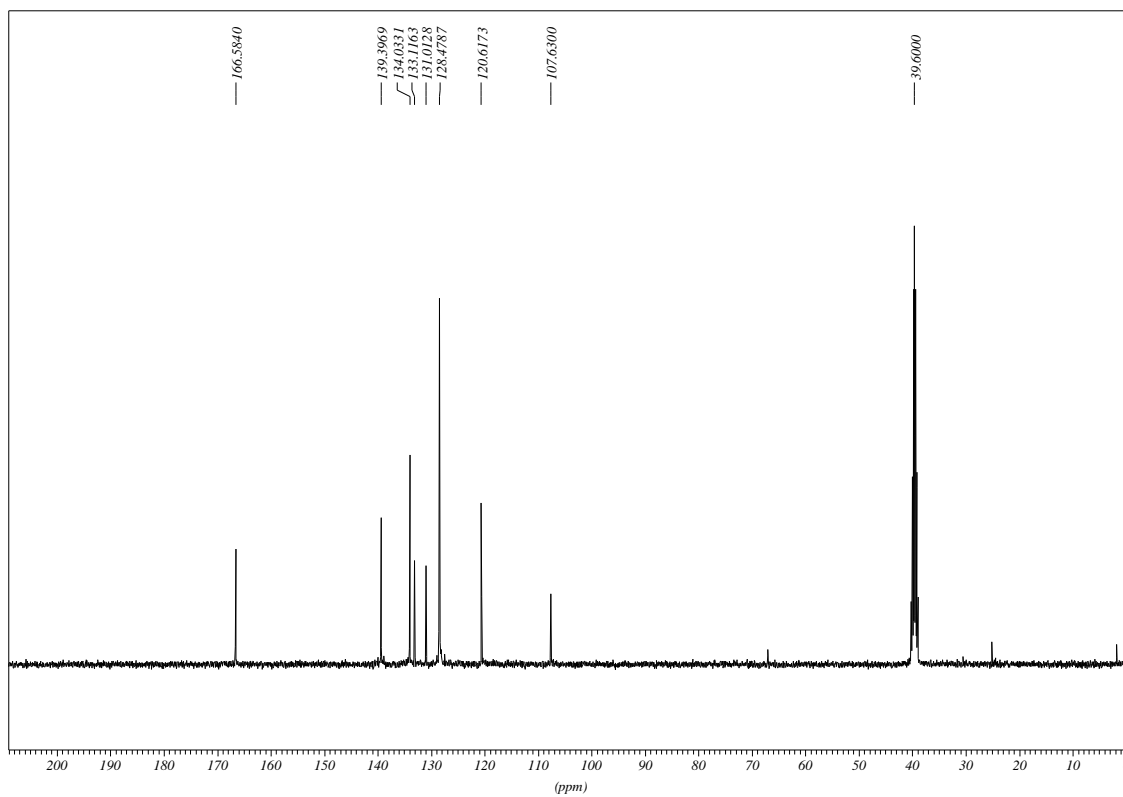
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2c**



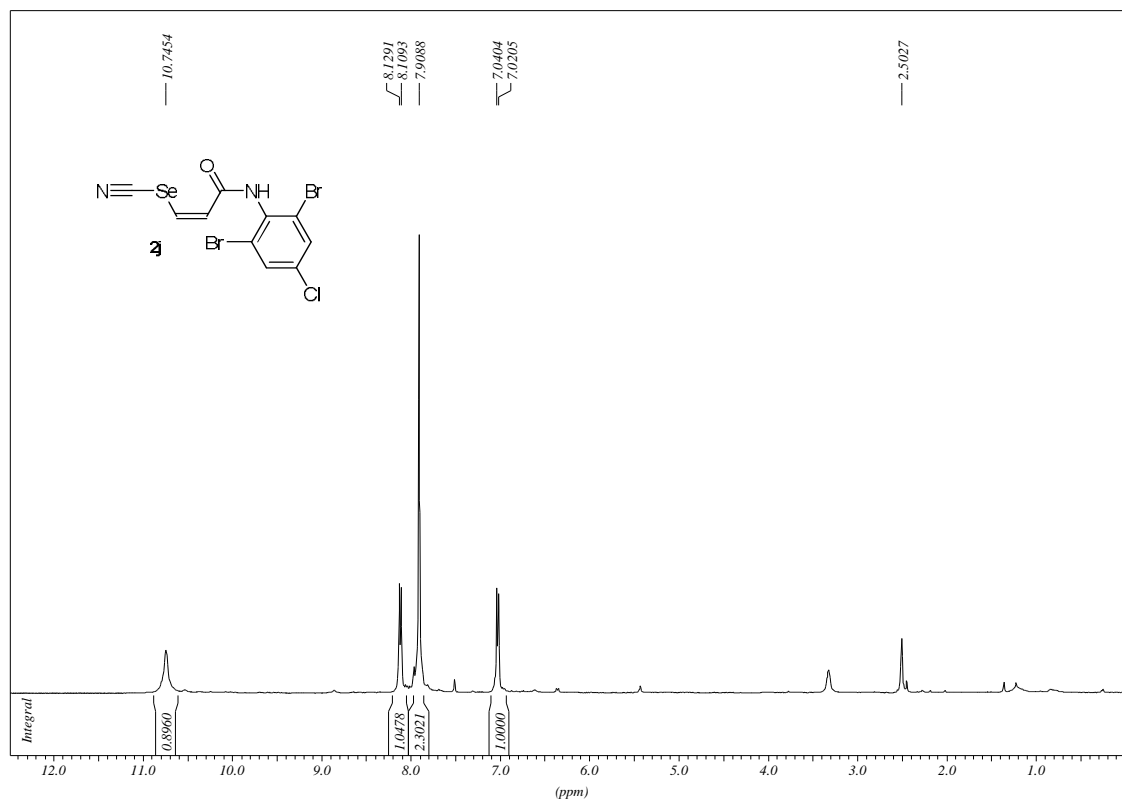
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2i**



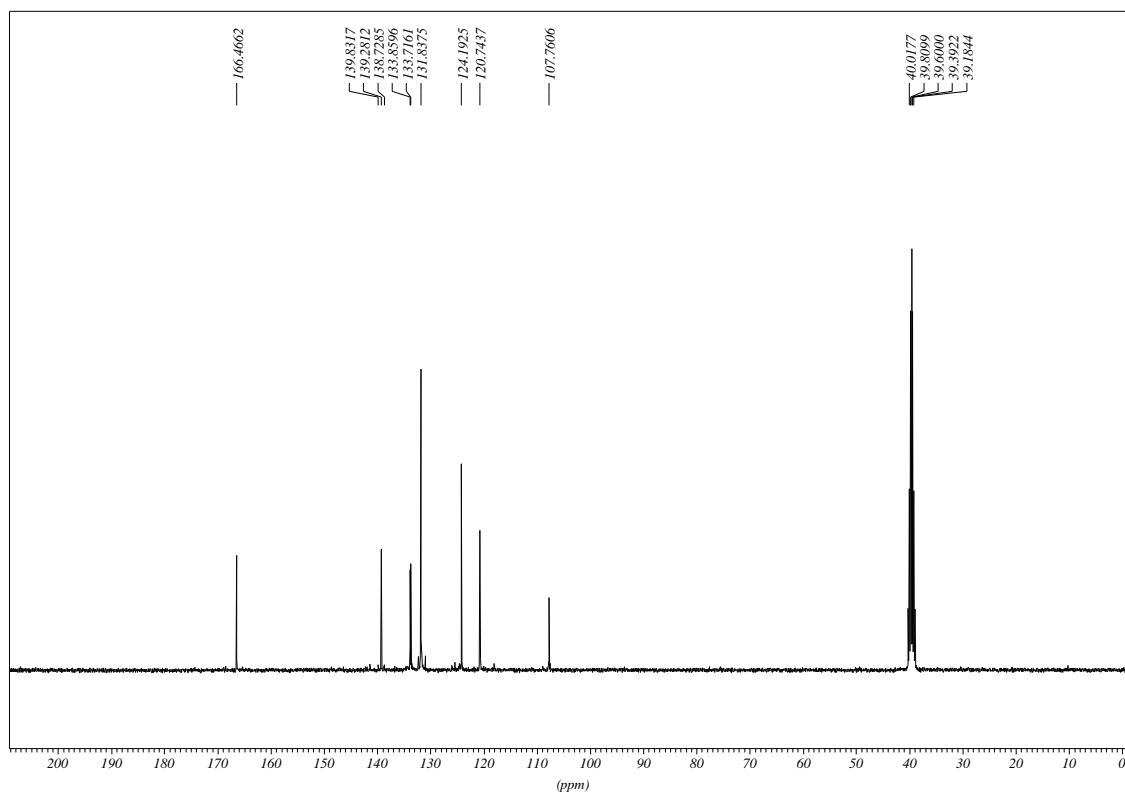
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2i**



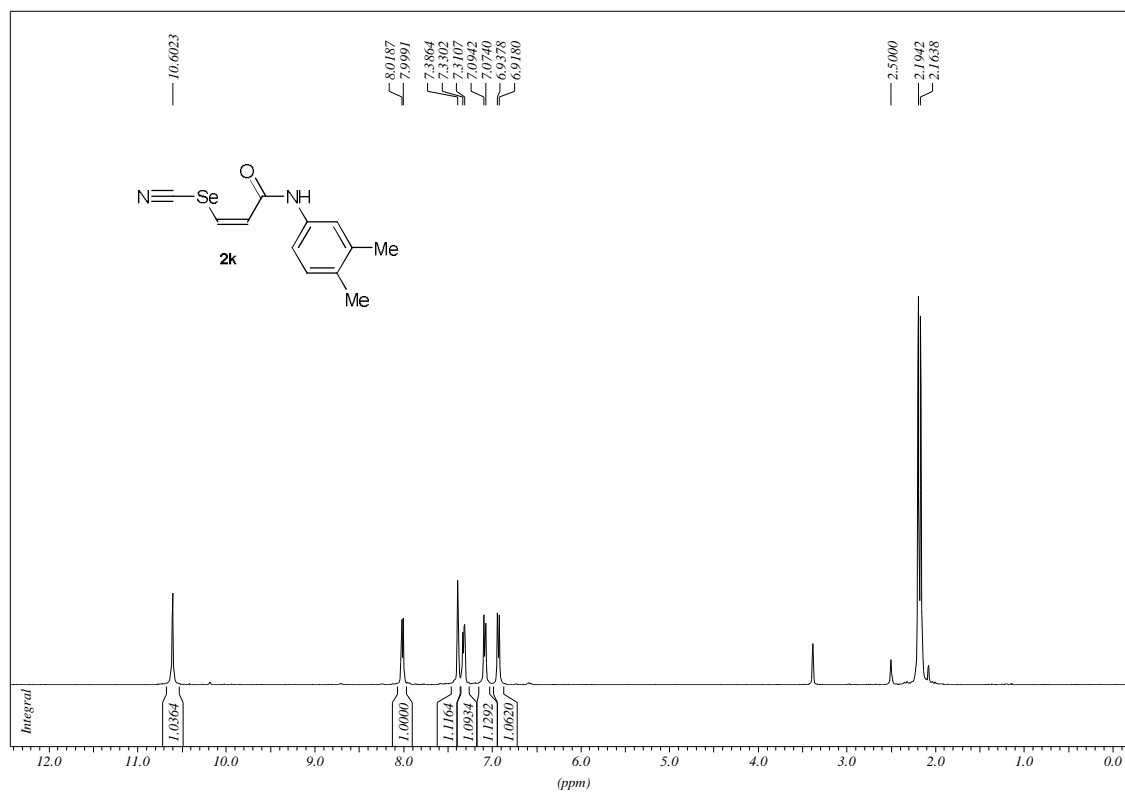
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2j**



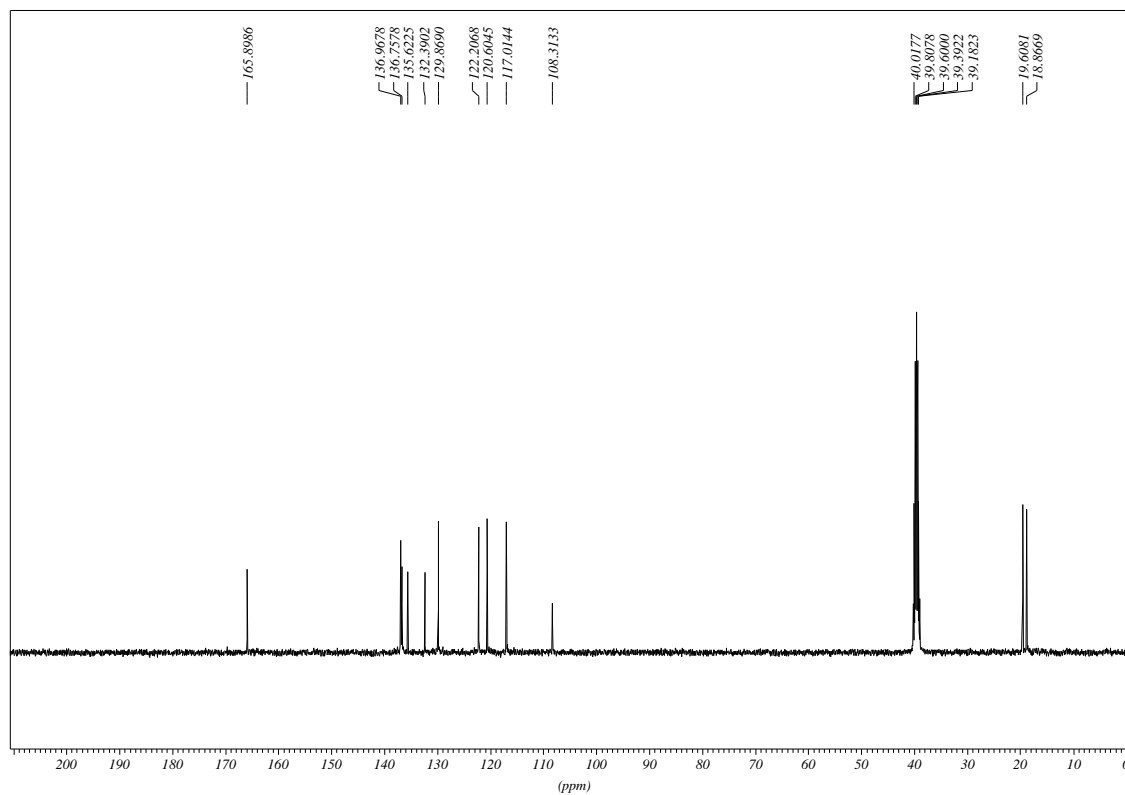
$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2j**



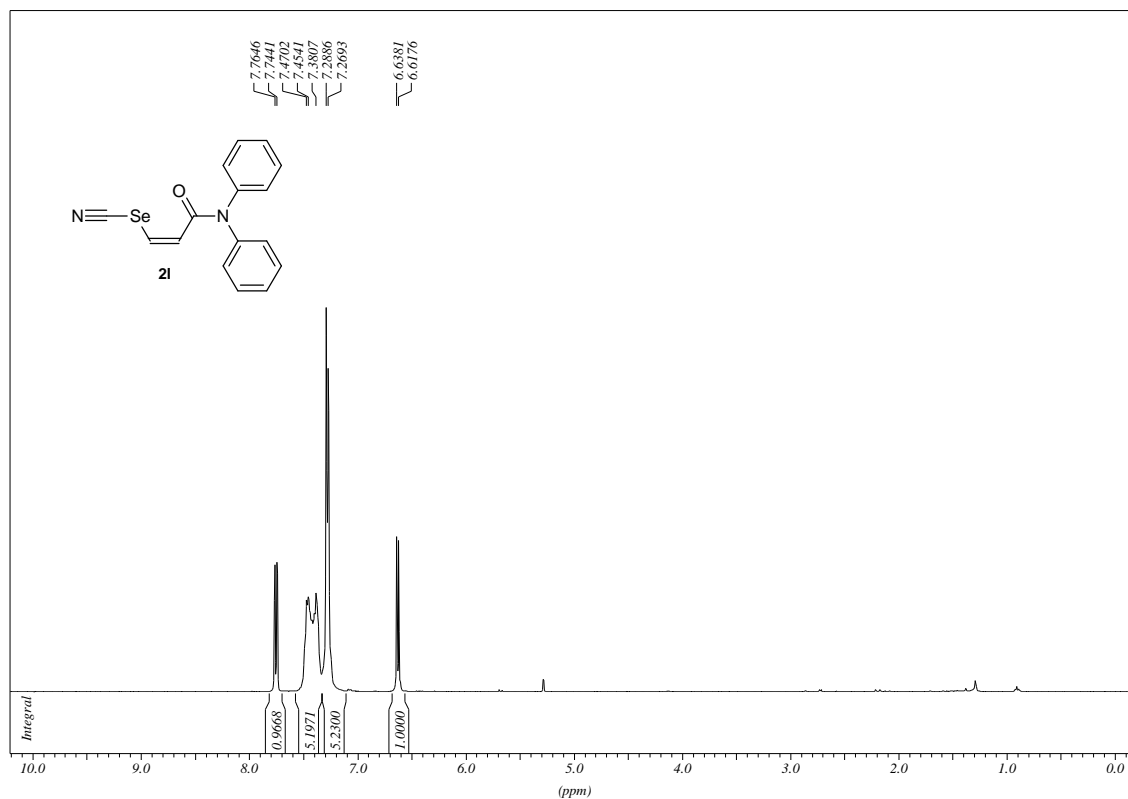
$^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2k**



$^{13}\text{C-NMR}$ (100 MHz, $\text{DMSO-}d_6$, 298K) of the compound **2k**



$^1\text{H-NMR}$ (400 MHz, CDCl_3 , 298K) of the compound **2I**



$^{13}\text{C-NMR}$ (100 MHz, CDCl_3 , 298K) of the compound **2I**

