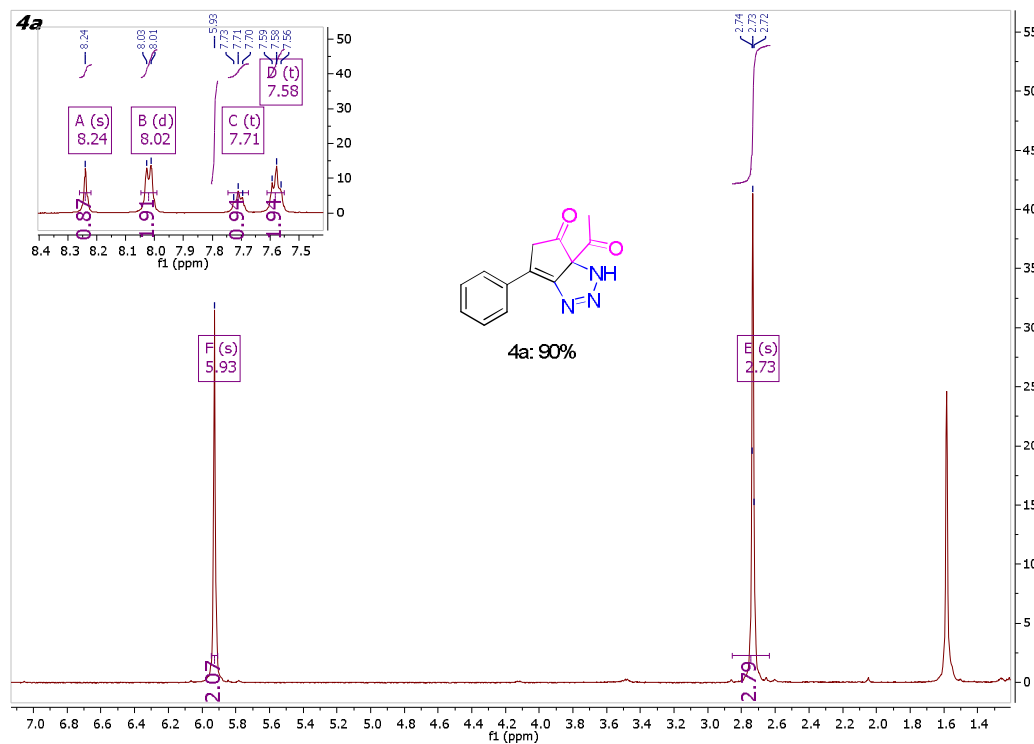


**A simple route for synthesis of new cyclopentene-fused
triazol derivatives via reaction between arylglyoxals,
acetylacetone and sodium azide**

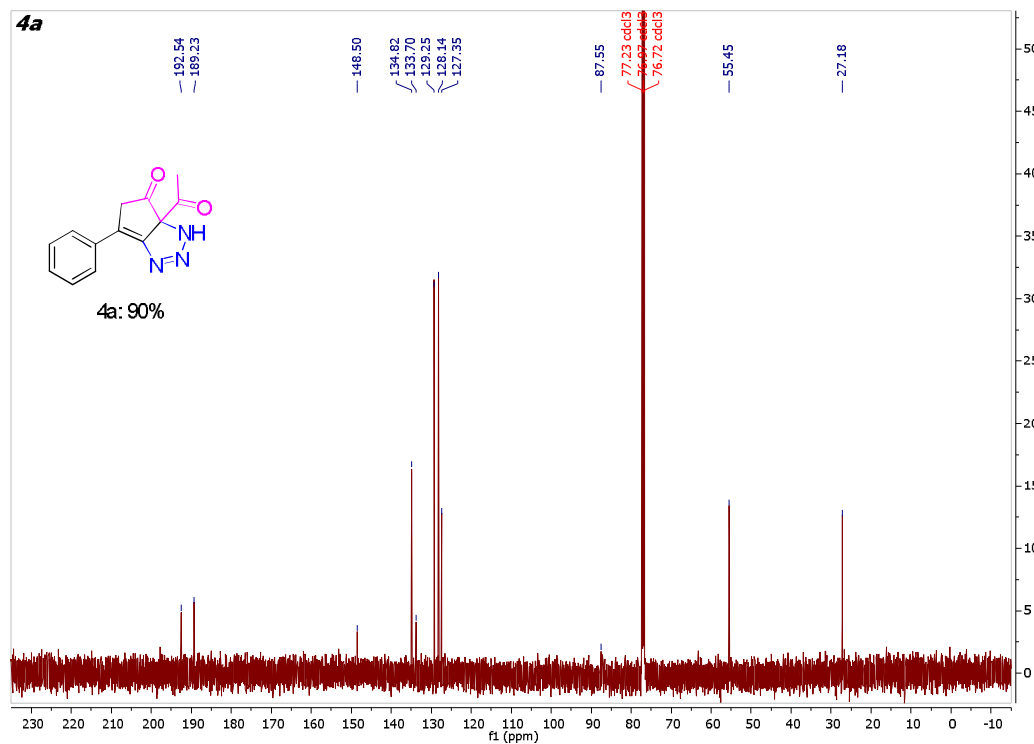
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77176, Iran

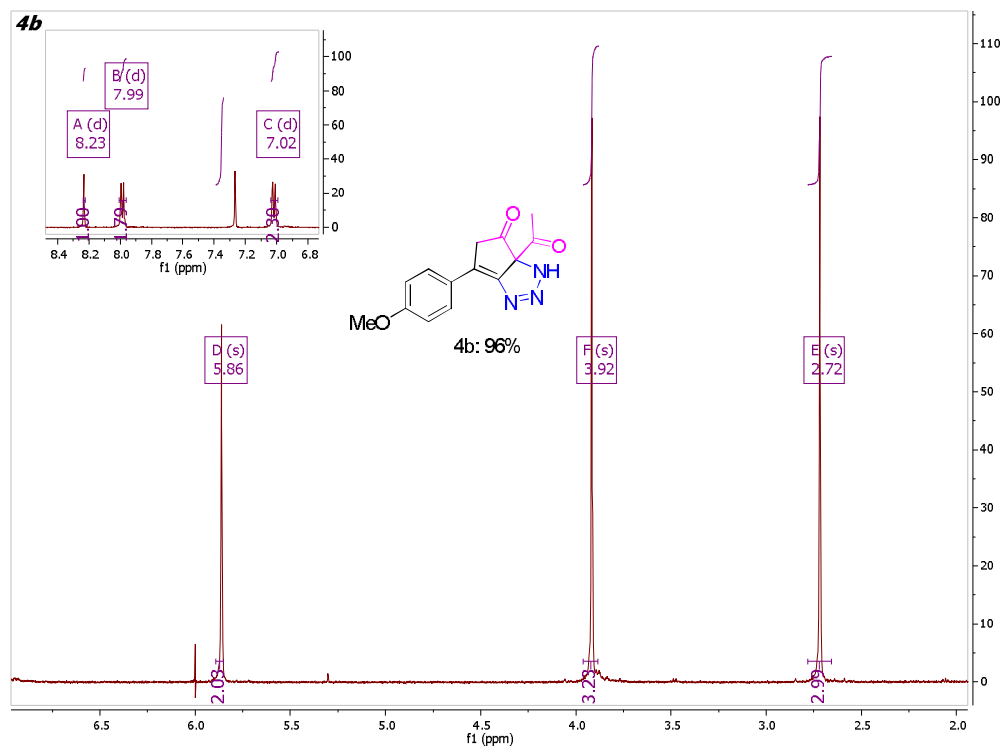
E-mail: m.anary@vru.ac.ir



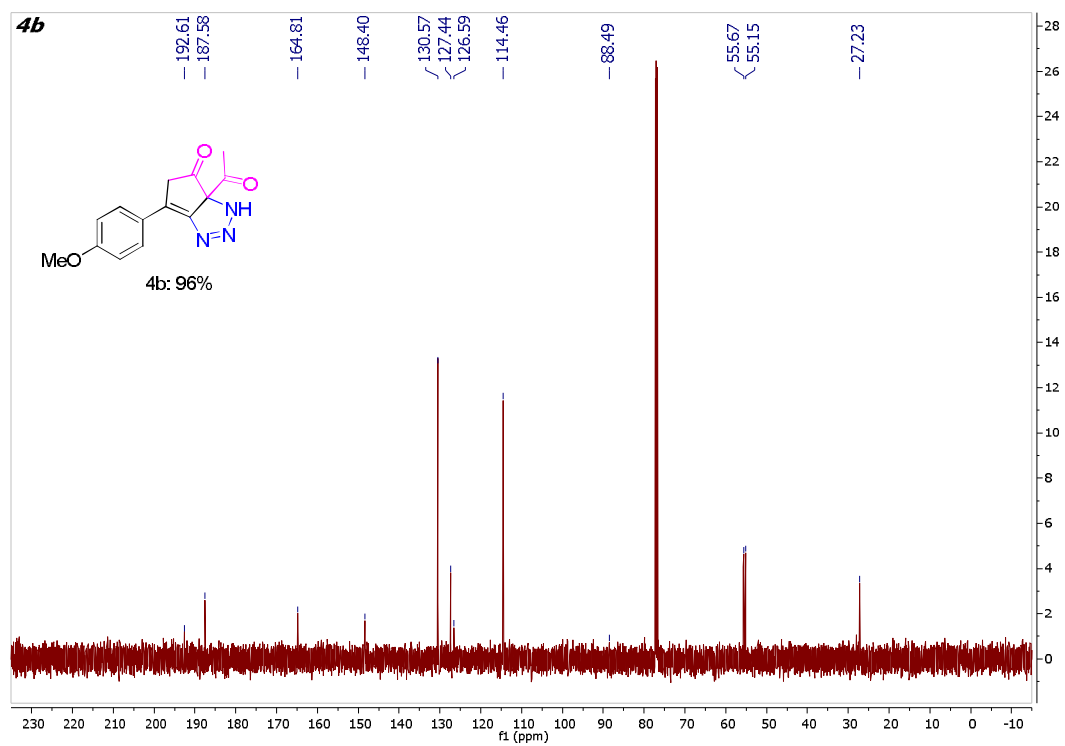
¹H NMR Spectrum (500 MHz, CDCl₃) of compound (4a):



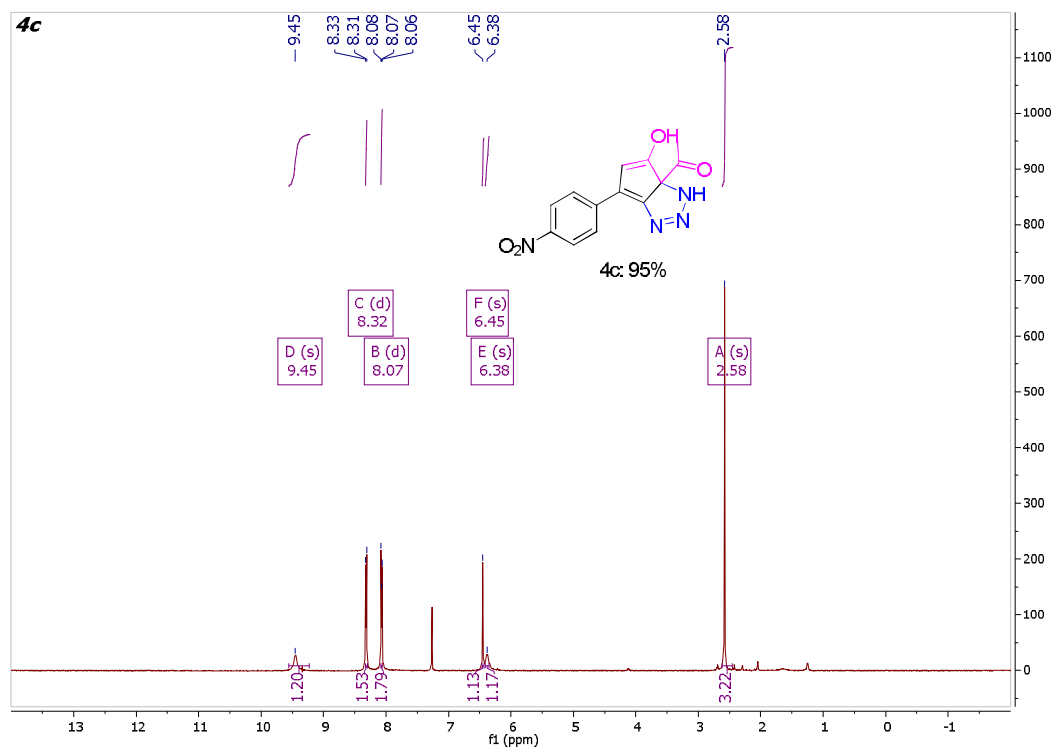
¹³C NMR (125 MHz, CDCl₃) spectrum of compound (5a):



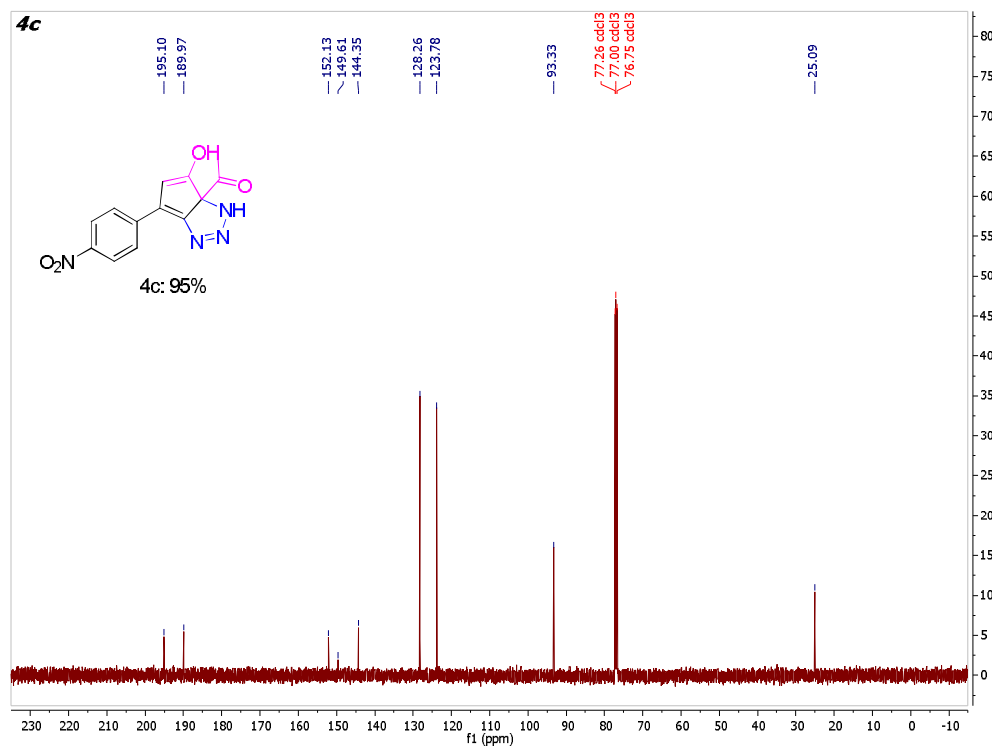
^1H NMR Spectrum (500 MHz, CDCl_3) of compound (4b):



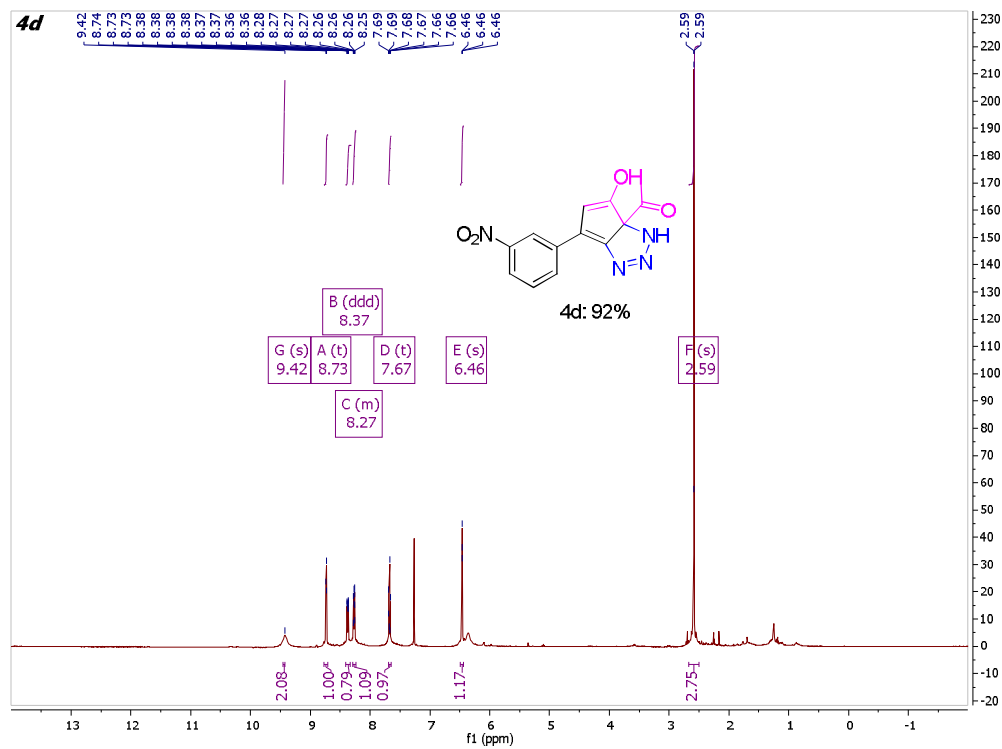
^{13}C NMR (125 MHz, CDCl_3) spectrum of compound(4b):



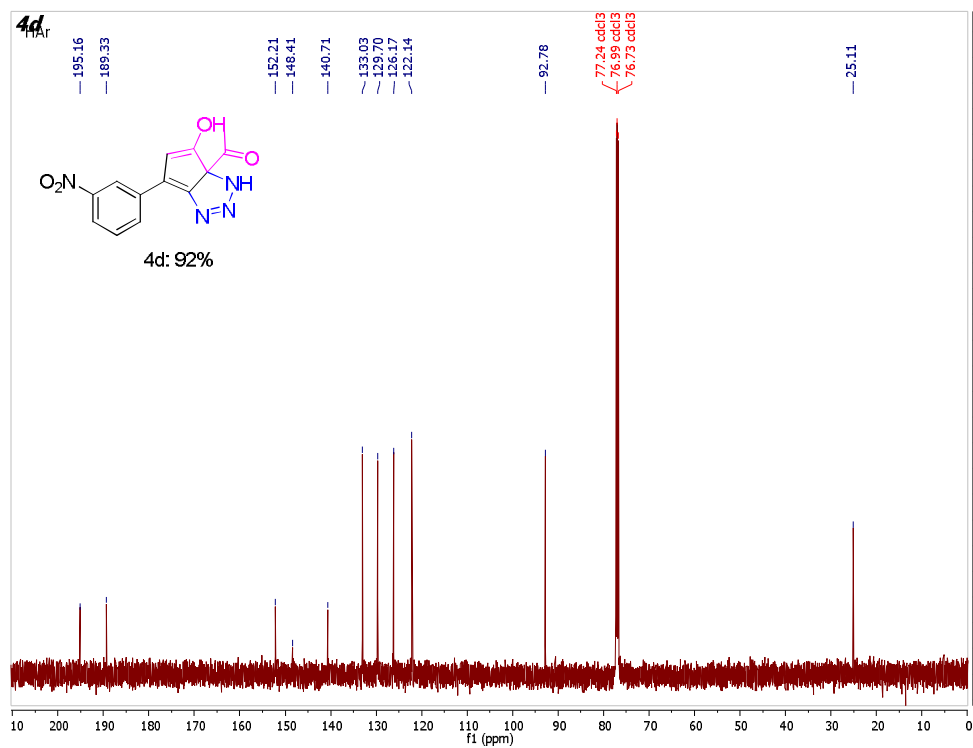
¹H NMR Spectrum (500 MHz, CDCl₃) of compound (4c):



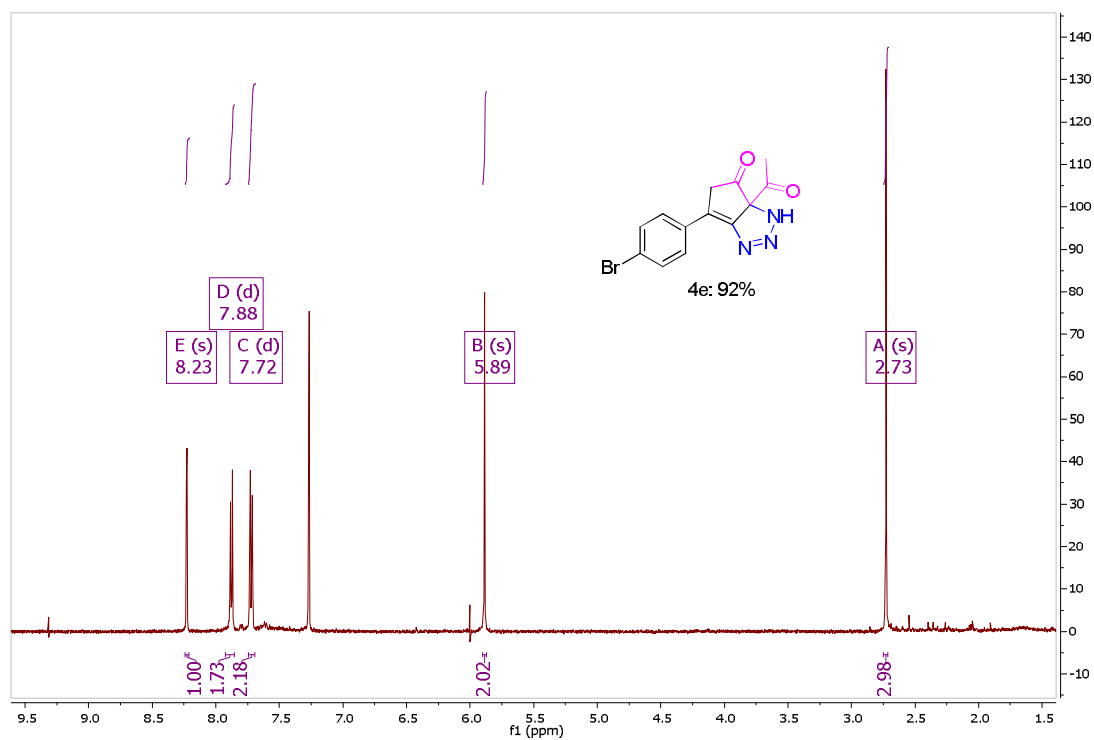
¹³C NMR (125 MHz, CDCl₃) spectrum of compound(4c):



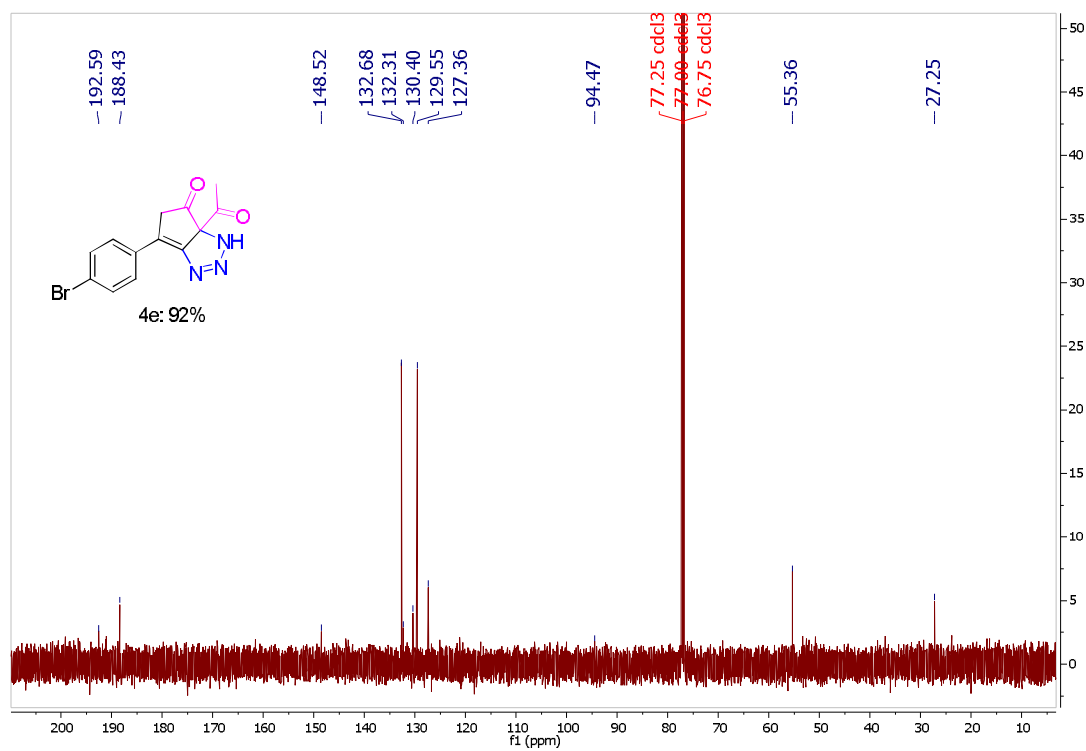
^1H NMR Spectrum (500 MHz, CDCl_3) of compound (4d):



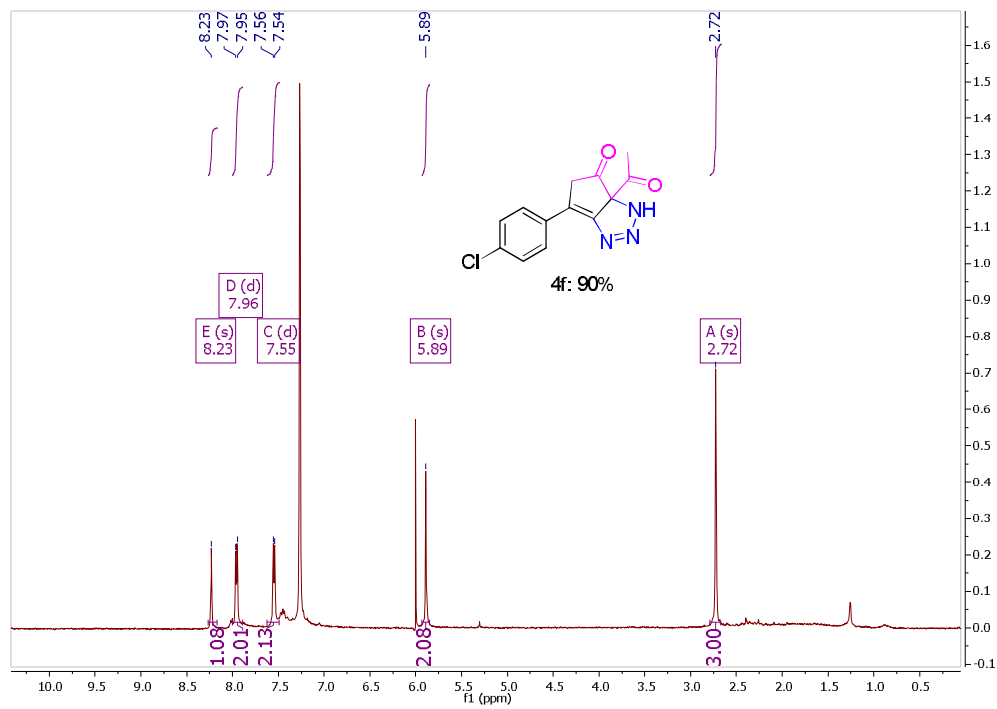
^{13}C NMR (125 MHz, CDCl_3) spectrum of compound(4d):



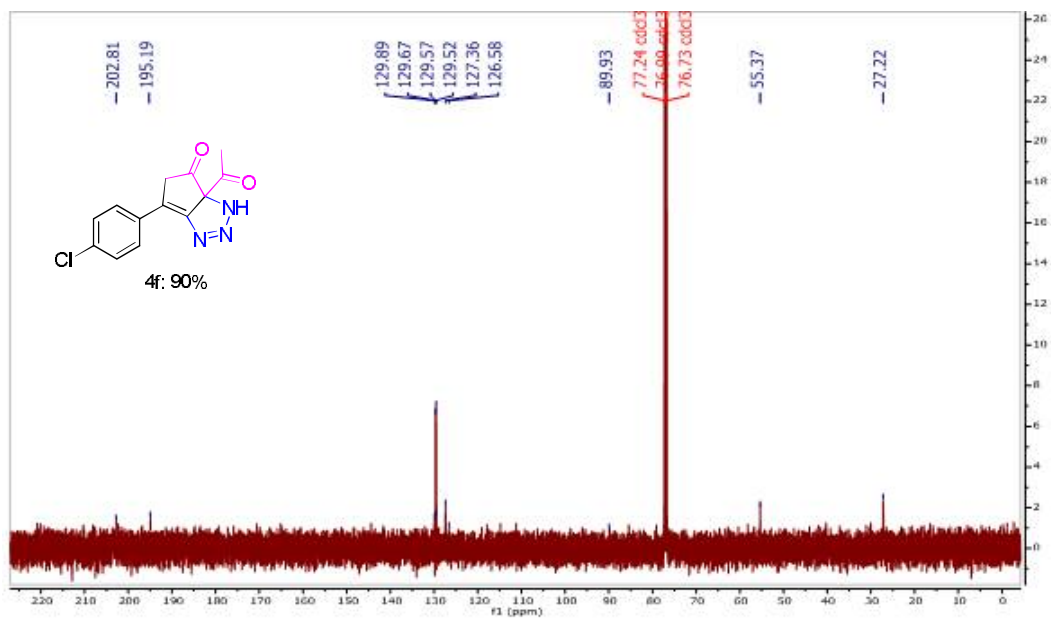
¹H NMR Spectrum (500 MHz, CDCl₃) of compound (4e):



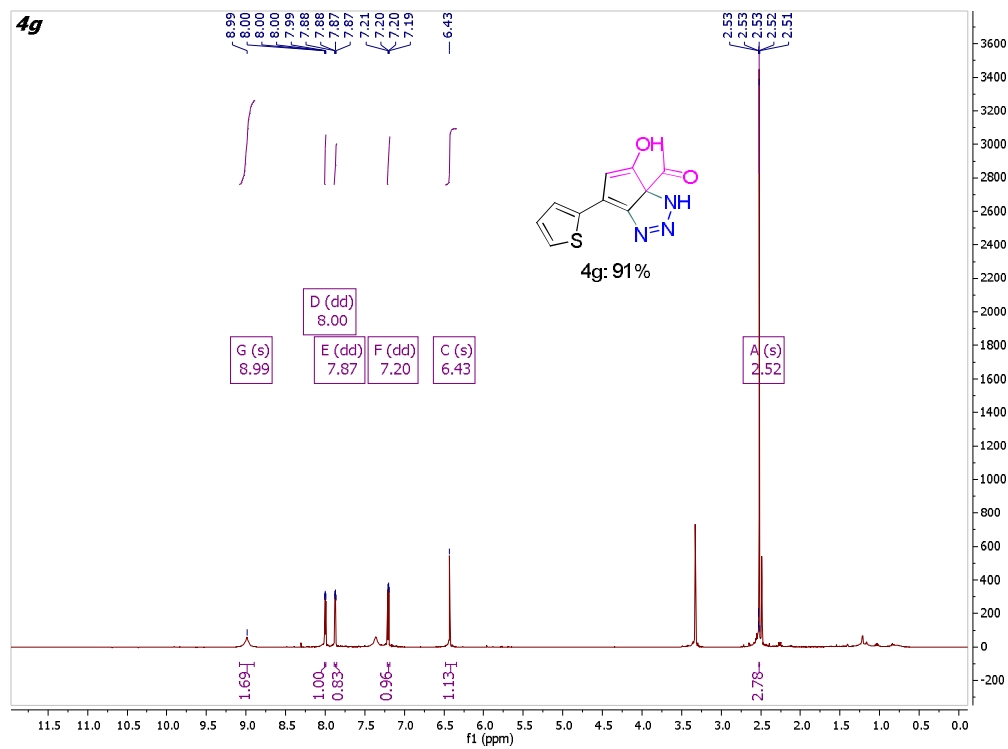
¹³C NMR (125 MHz, CDCl₃) spectrum of compound (4e):



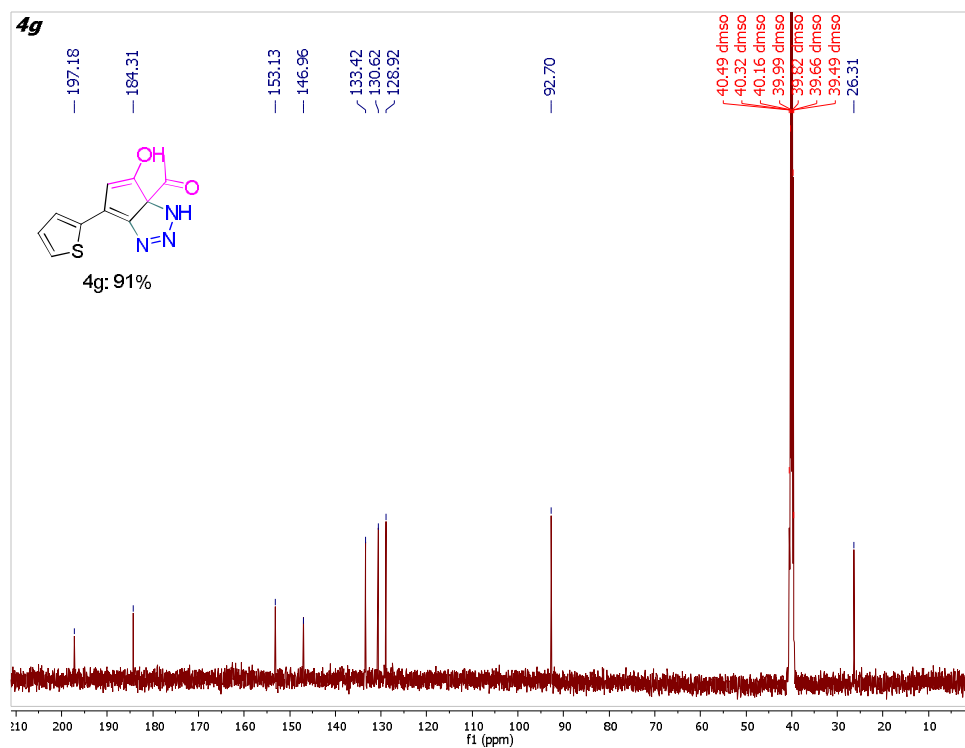
¹H NMR Spectrum (500 MHz, CDCl₃) of compound (4f):



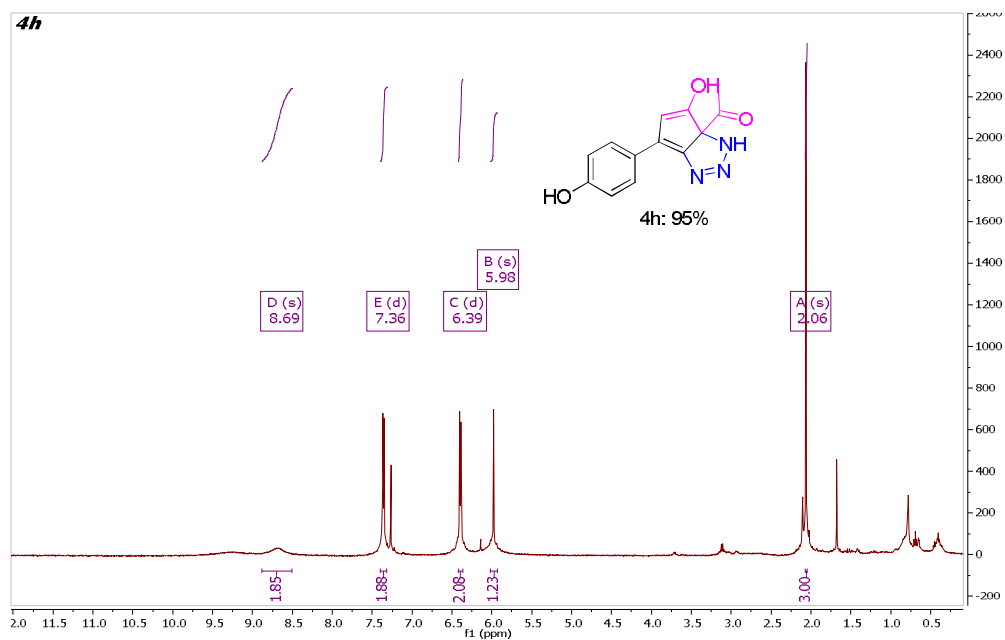
¹³C NMR (125 MHz, CDCl₃) spectrum of compound(4f):



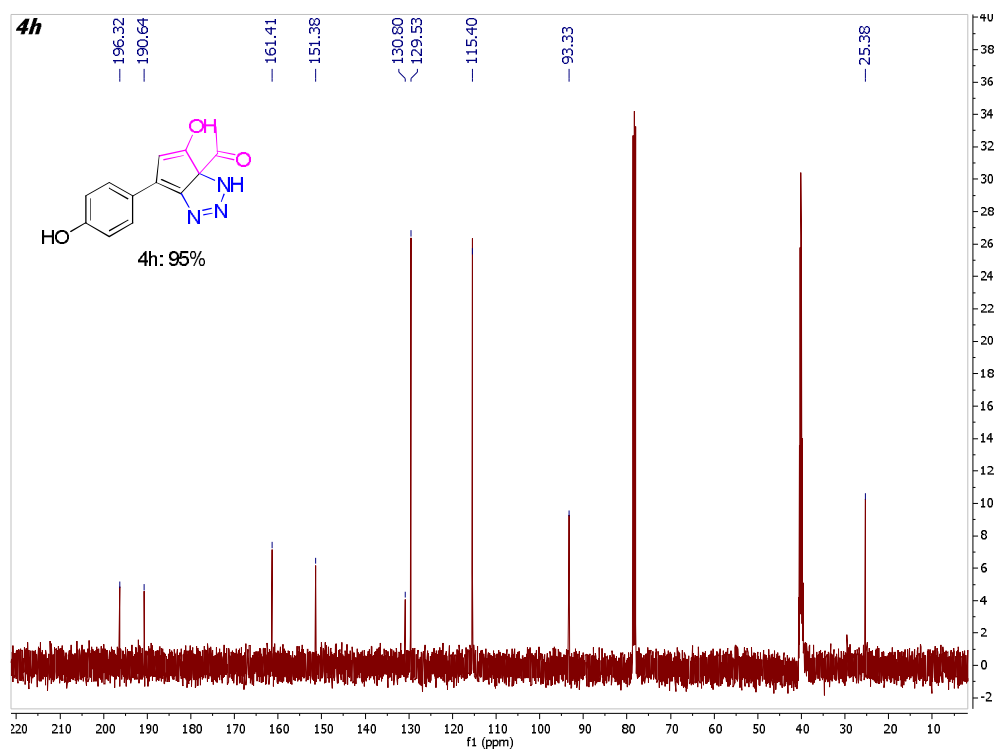
^1H NMR Spectrum (500 MHz, CDCl_3) of compound (4g):



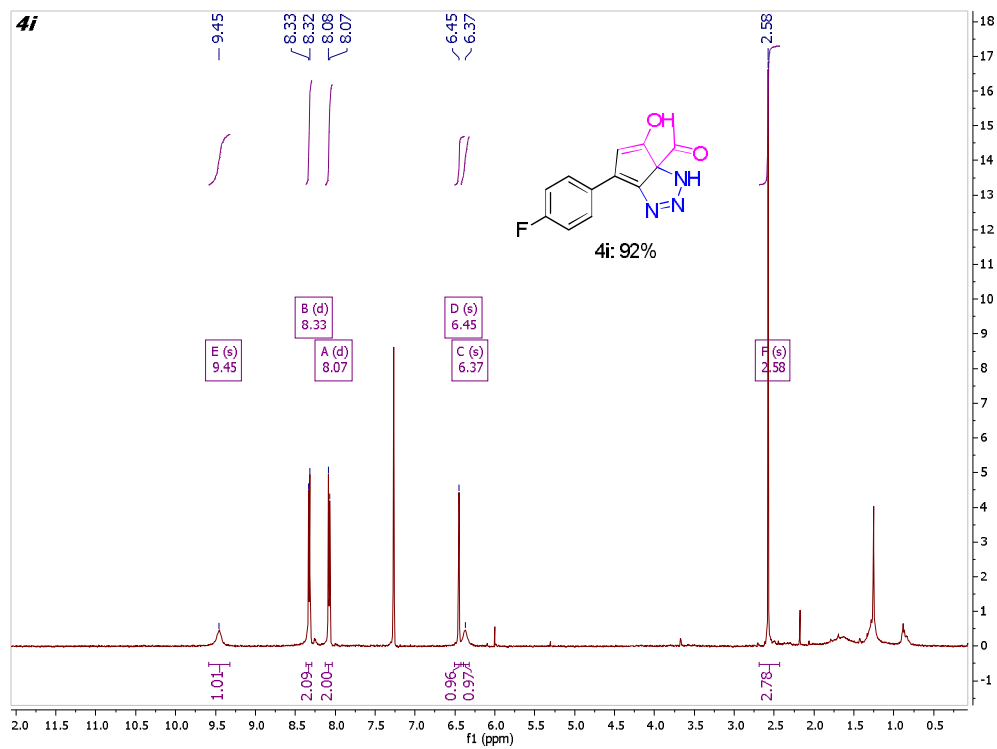
^{13}C NMR (125 MHz, CDCl_3) spectrum of compound(4g):



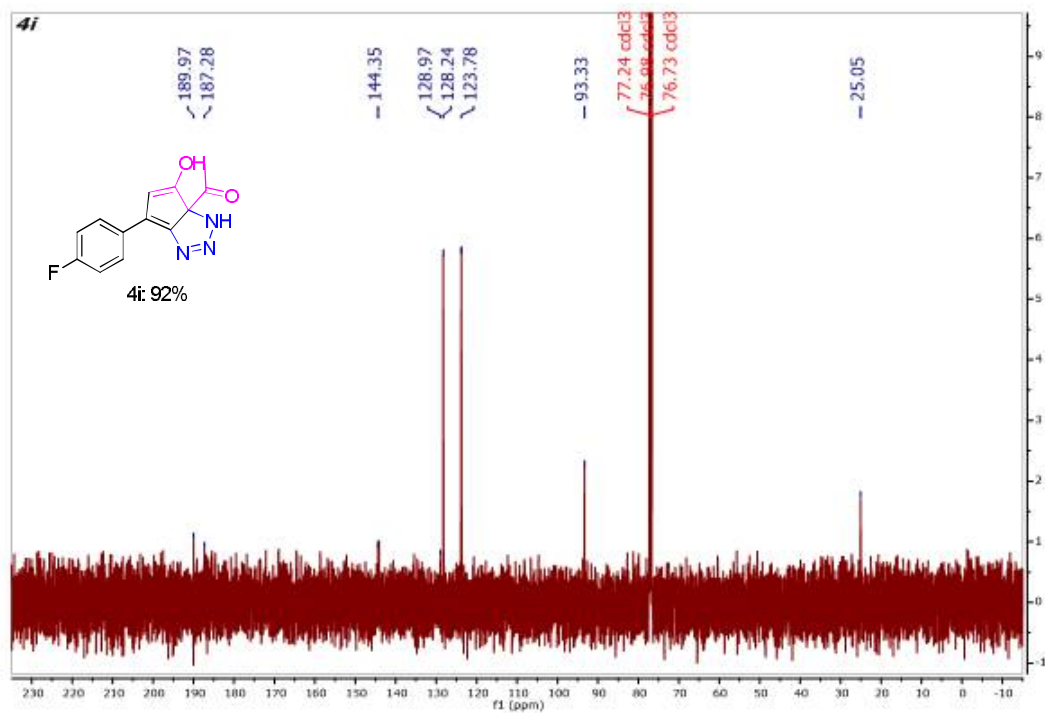
^1H NMR Spectrum (500 MHz, CDCl_3) of compound (4h):



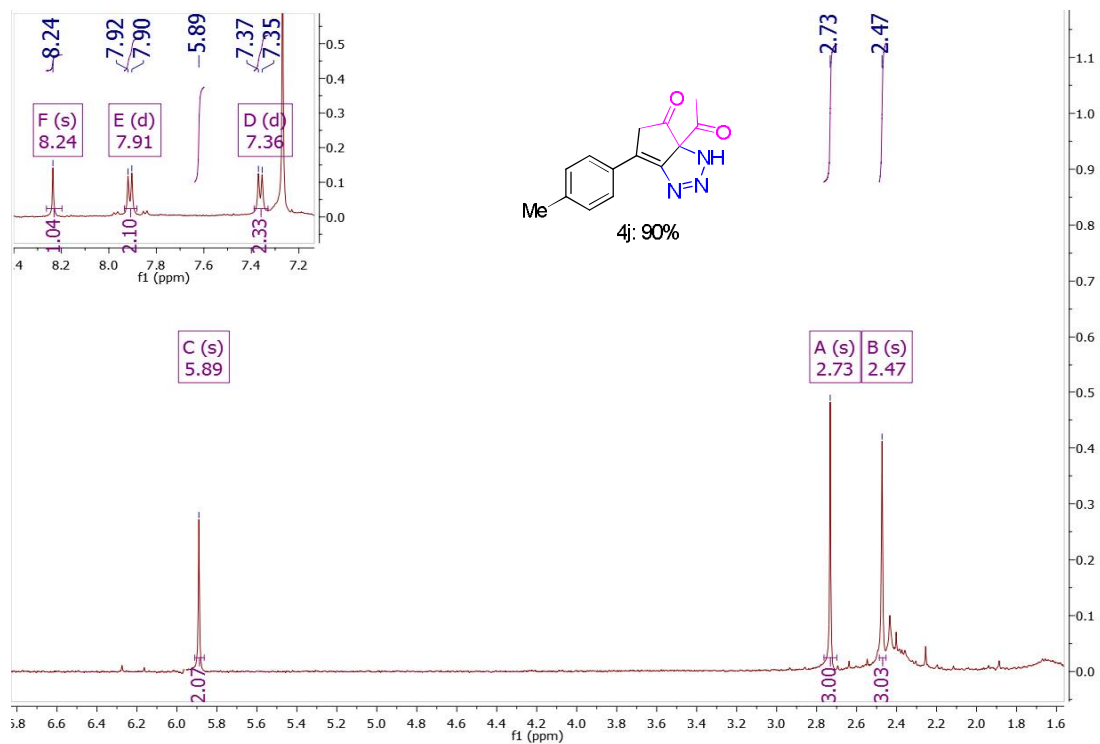
^{13}C NMR (125 MHz, CDCl_3) spectrum of compound(4h):



¹H NMR Spectrum (500 MHz, CDCl₃) of compound (**4i**):



¹³C NMR (125 MHz, CDCl₃) spectrum of compound (**4i**):



^1H NMR Spectrum (500 MHz, CDCl_3) of compound (4j):