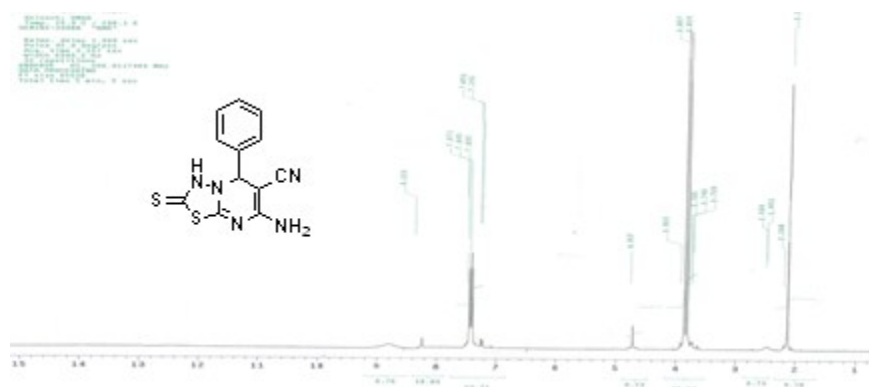
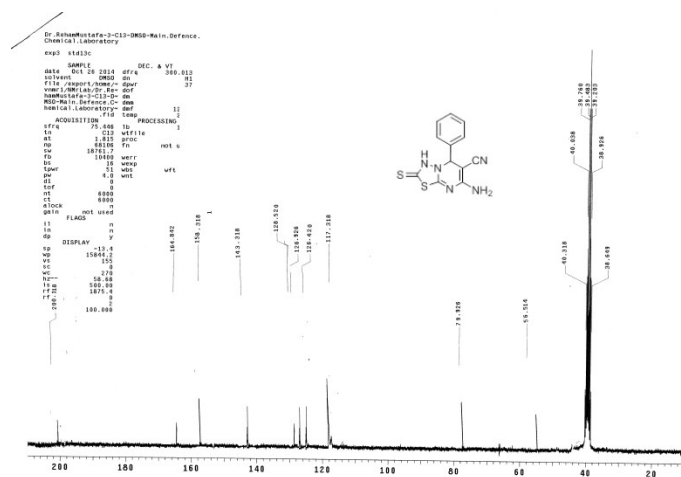


NMR Data of the Synthesized Compounds

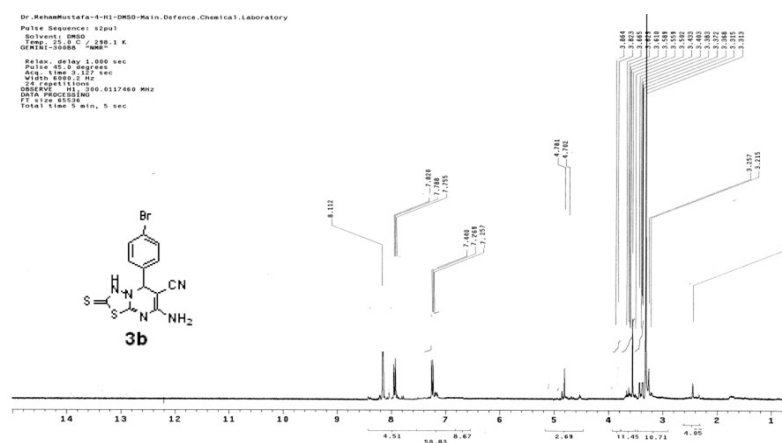
Compound 3a (^1H -NMR)



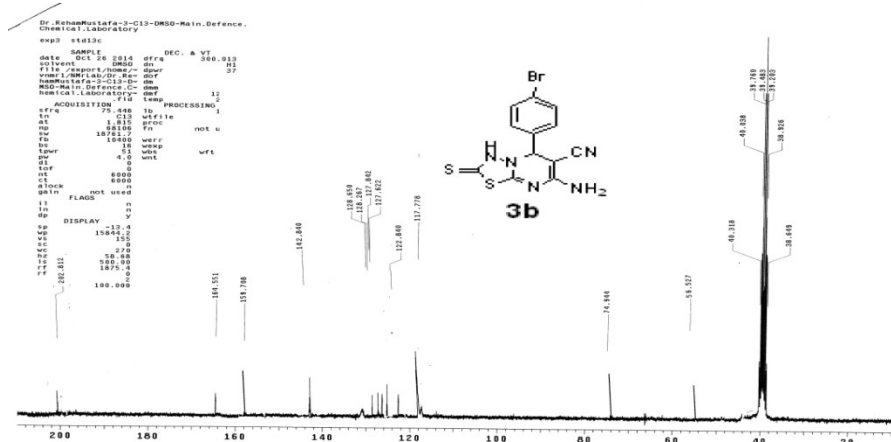
Compound 3a (^{13}C -NMR)



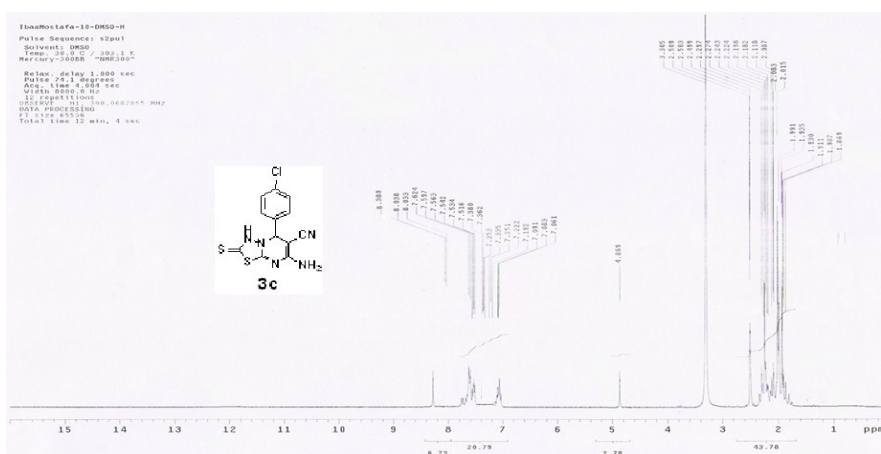
Compound 3b (^1H -NMR)



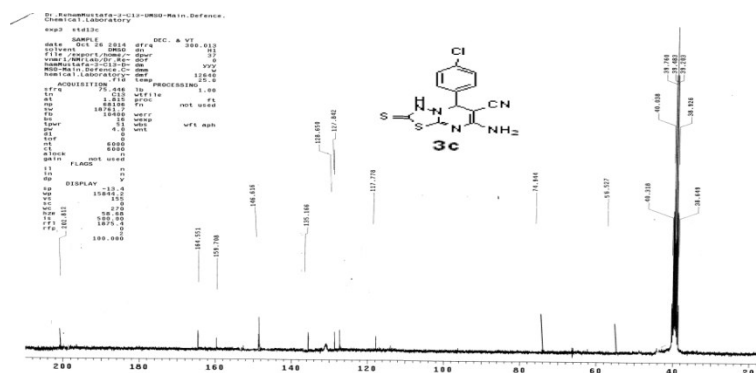
Compound 3b (¹³C-NMR)



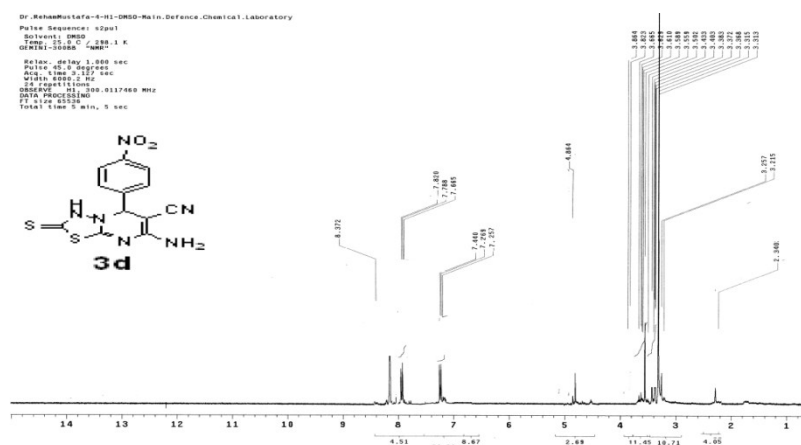
Compound 3c (¹H-NMR)



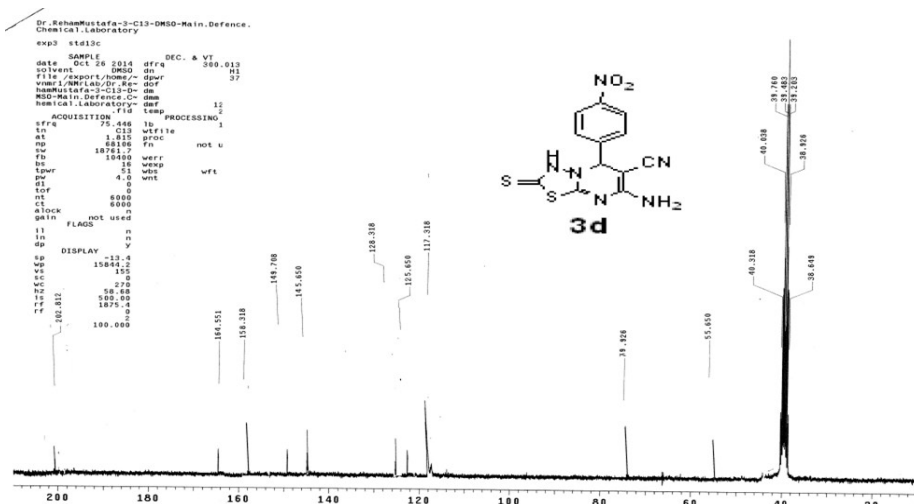
Compound 3c (¹³C-NMR)



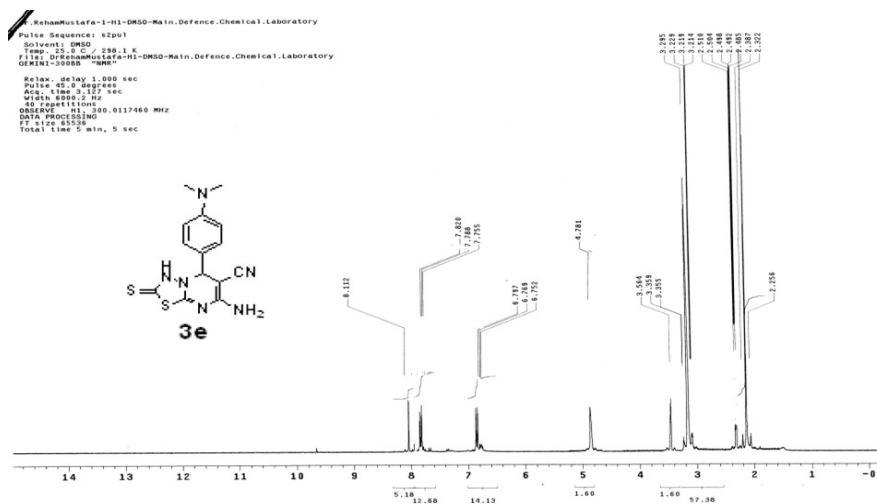
Compound 3d (¹H-NMR)



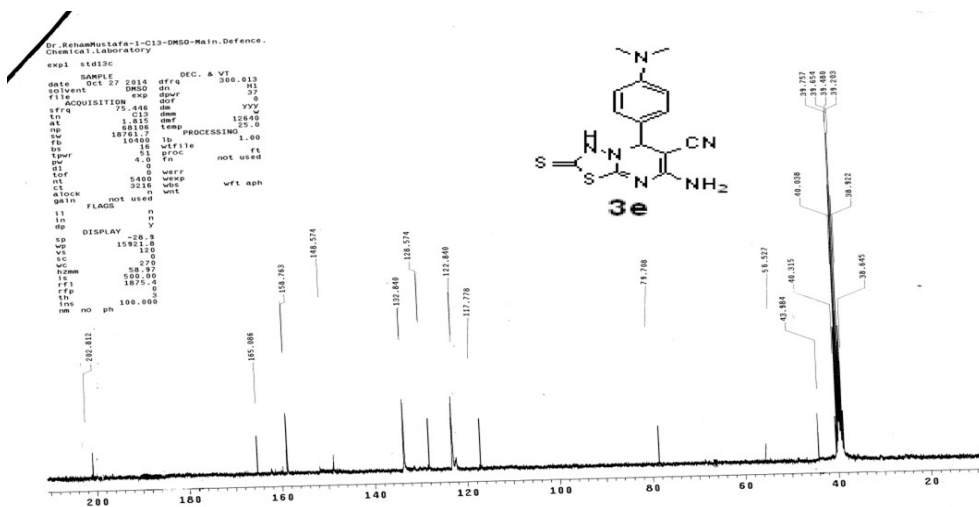
Compound 3d (¹³C-NMR)



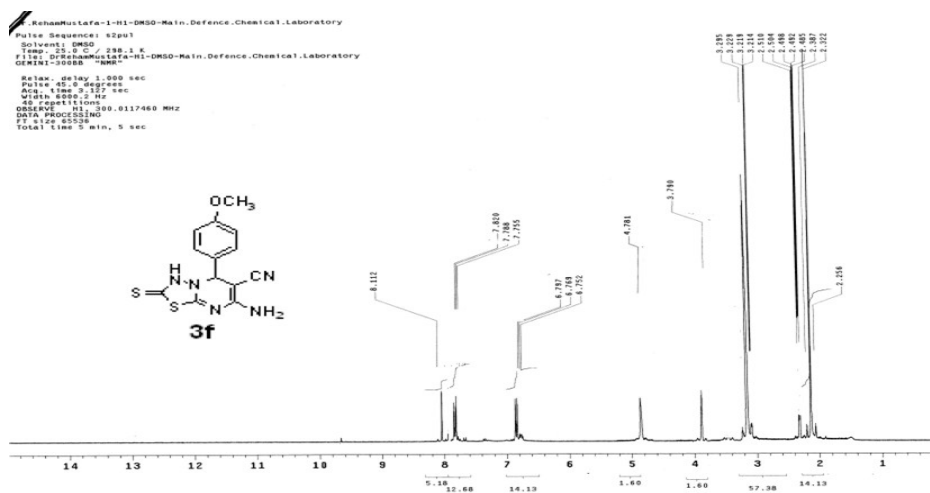
Compound 3e (¹H-NMR)



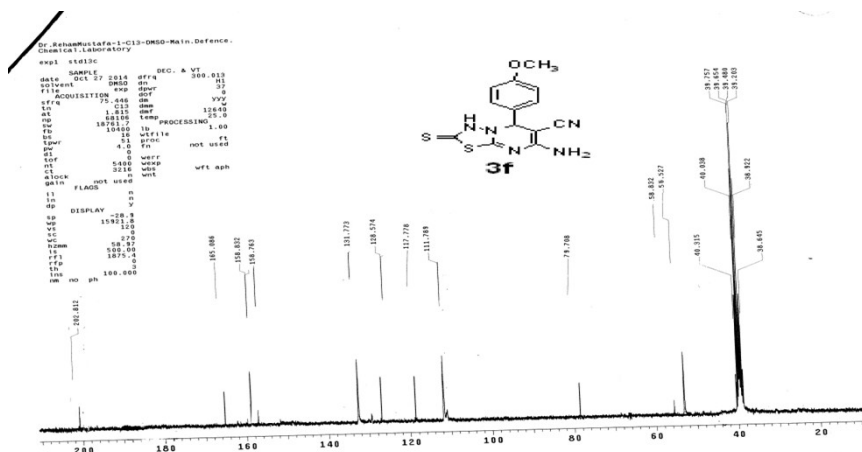
Compound 3e (¹³C-NMR)



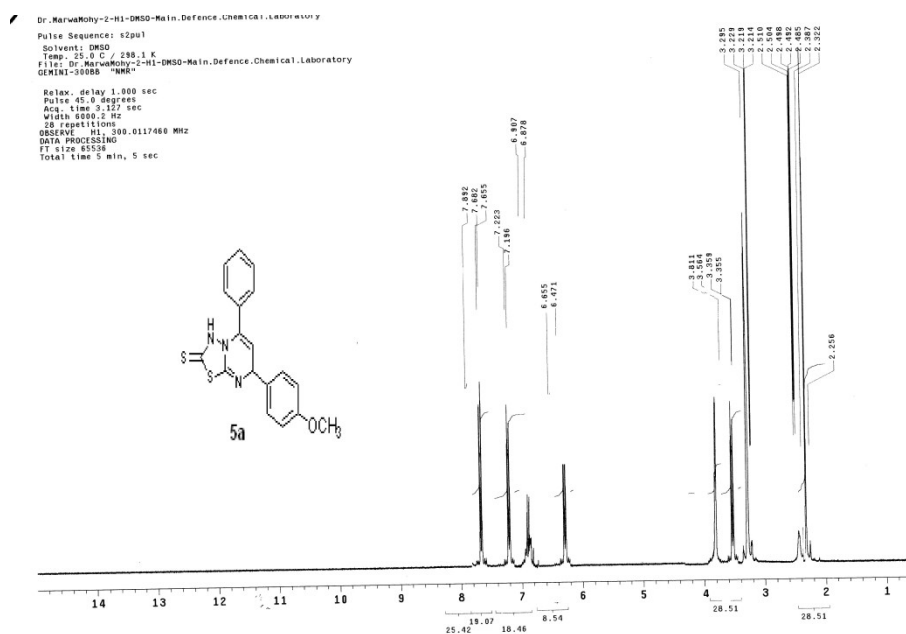
Compound 3f (¹H-NMR)



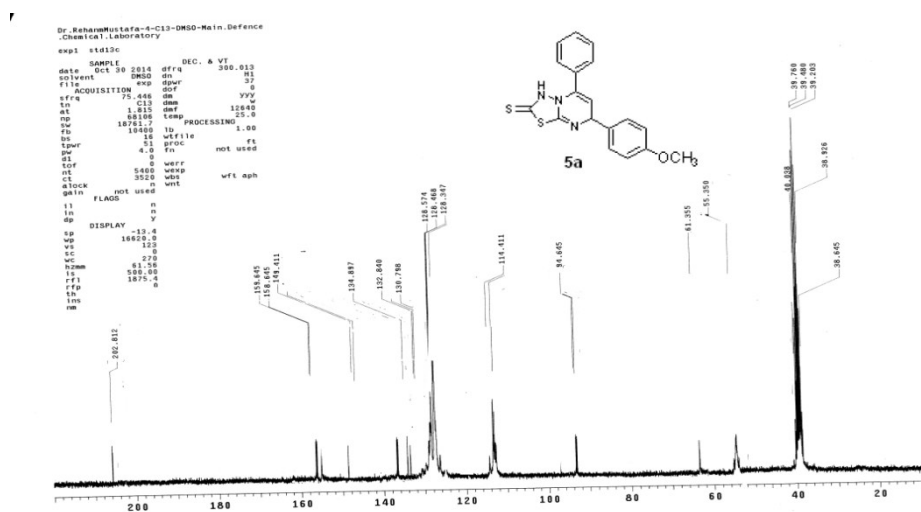
Compound 3f (¹³C-NMR)



Compound 5a (¹H-NMR)

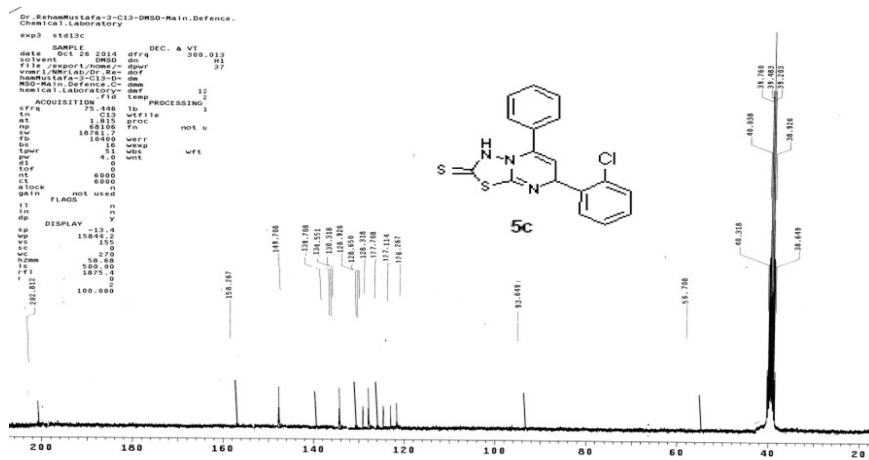


Compound 5a (¹³C-NMR)

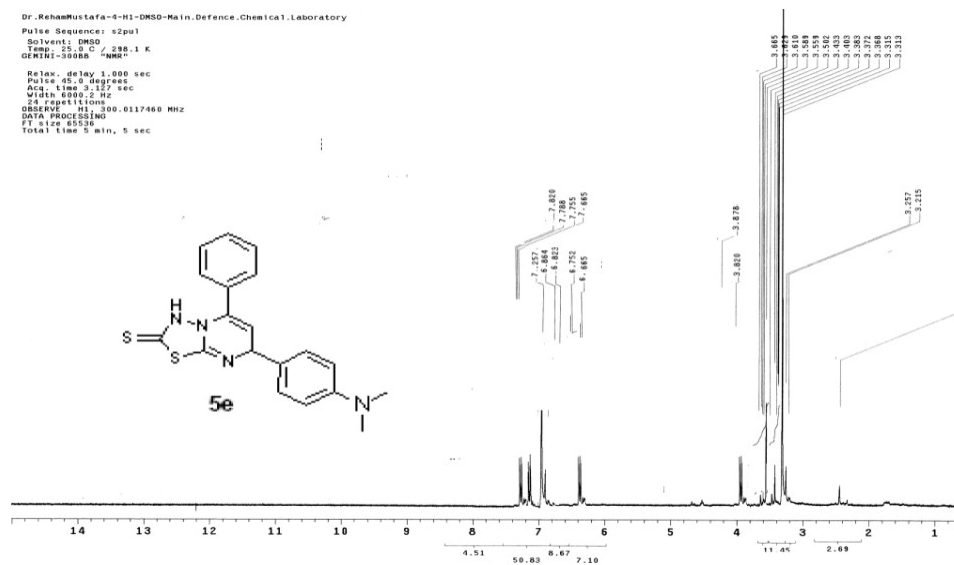


Compound 5b (¹H-NMR)

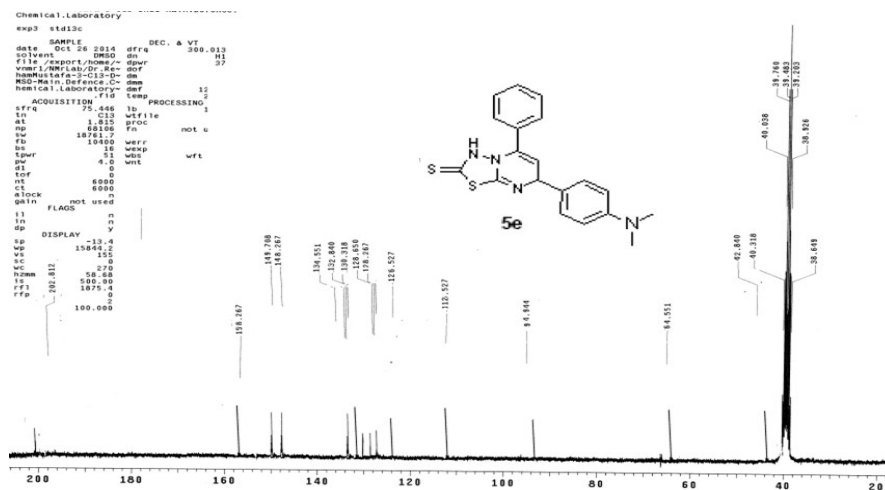
Compound 5c (¹³C-NMR)



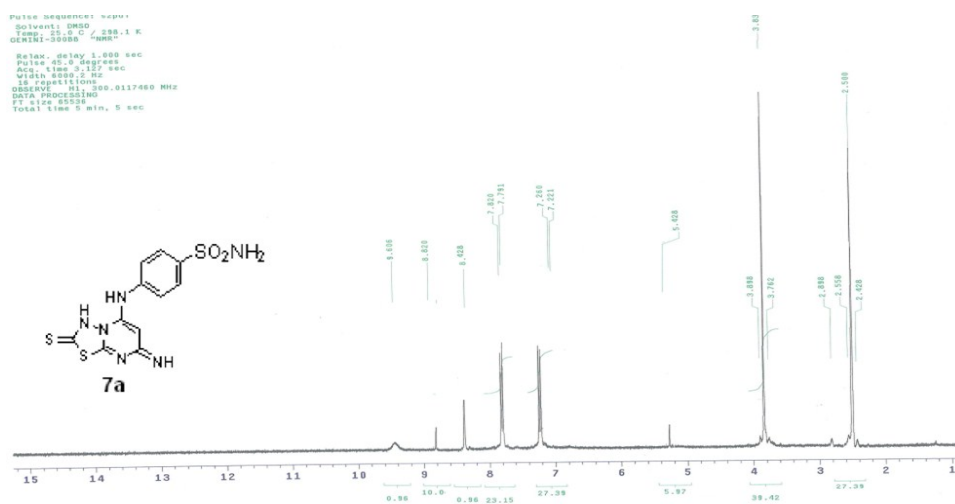
Compound 5e (¹H-NMR)



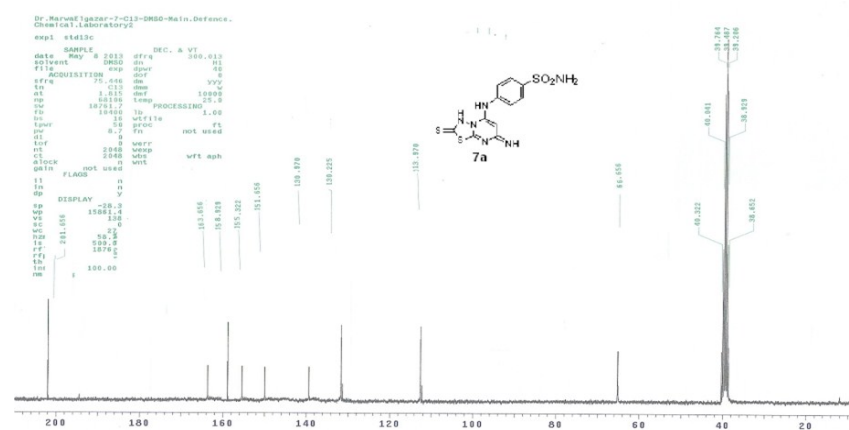
Compound 5e (¹³C-NMR)



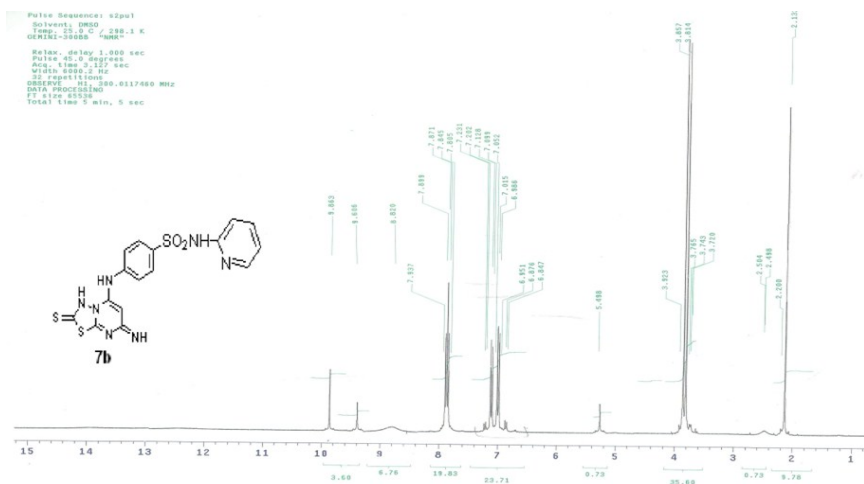
Compound 7a (¹H-NMR)



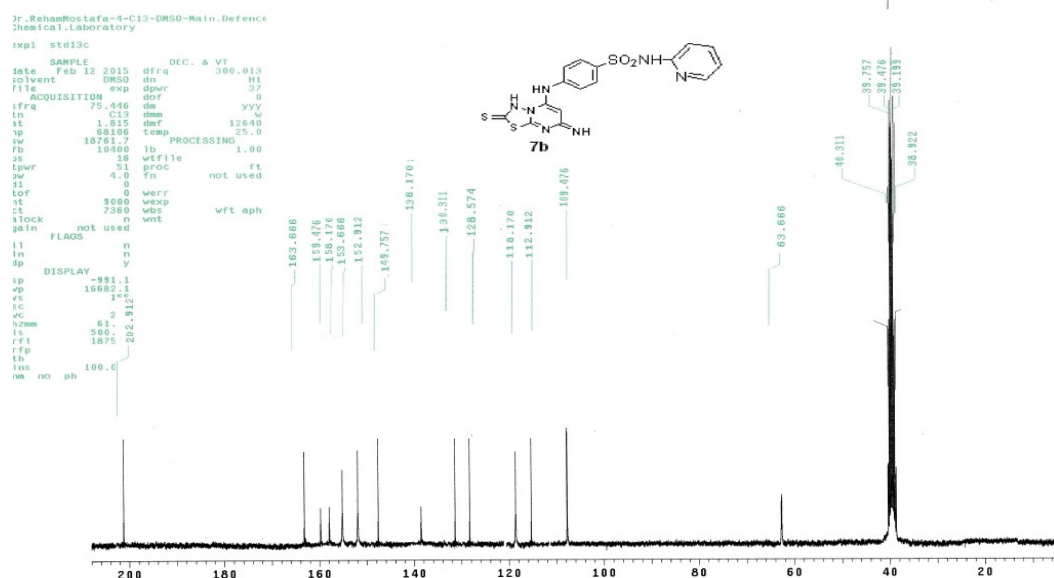
Compound 7a (¹³C-NMR)



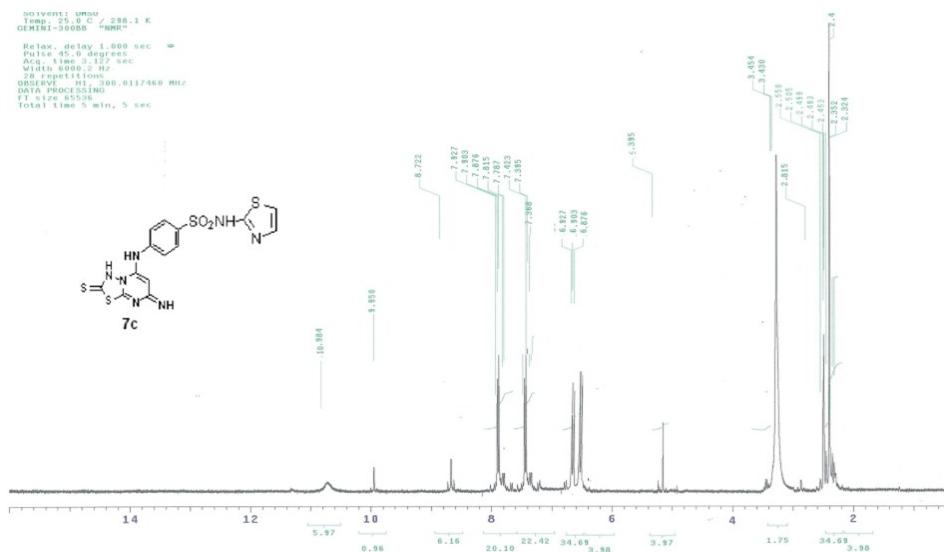
Compound 7b (¹H-NMR)



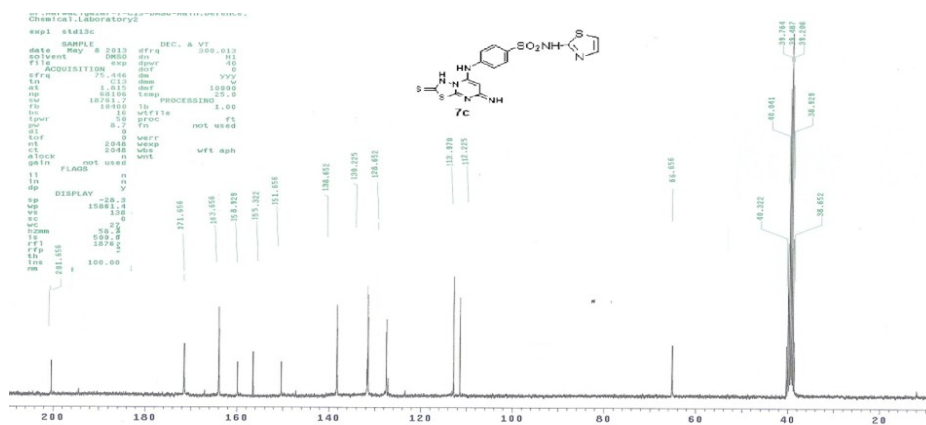
Compound 7b (^{13}C -NMR)



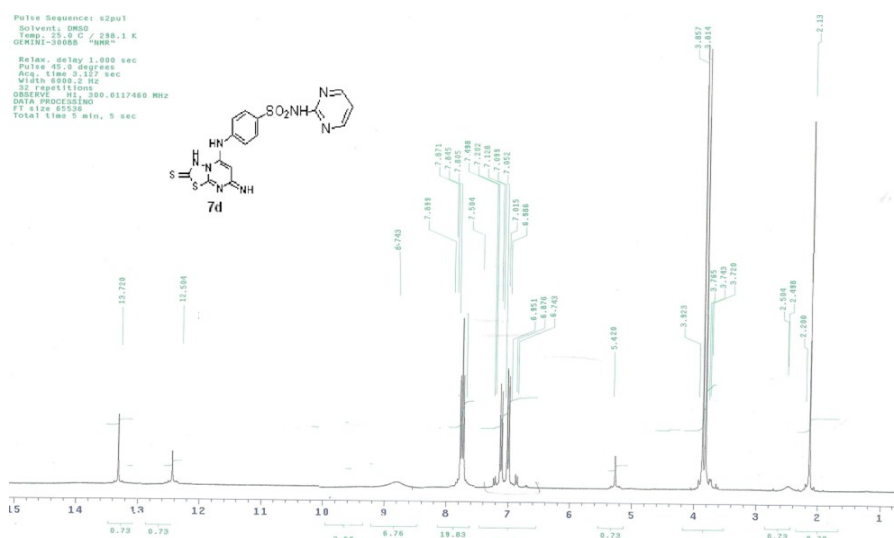
Compound 7c (^1H -NMR)



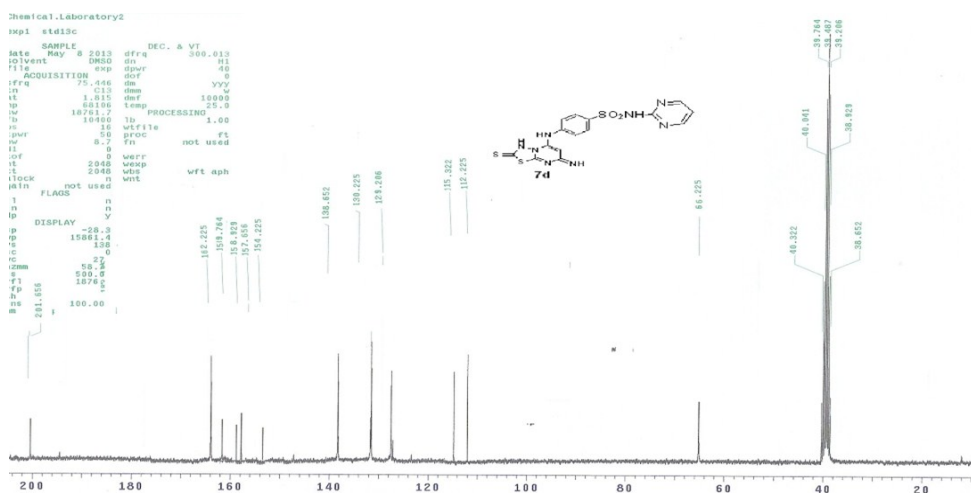
Compound 7c (¹³C-NMR)



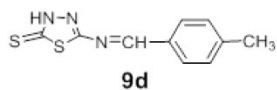
Compound 7d (¹H-NMR)



Compound 7d (¹³C-NMR)

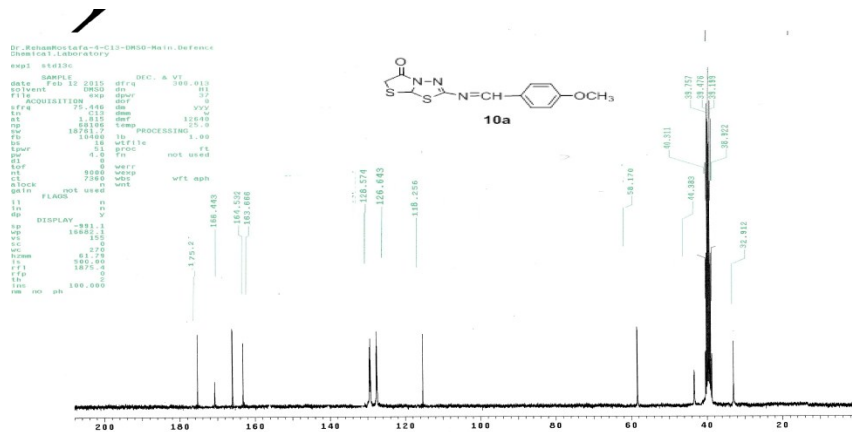


Compound 9a (¹H-NMR)

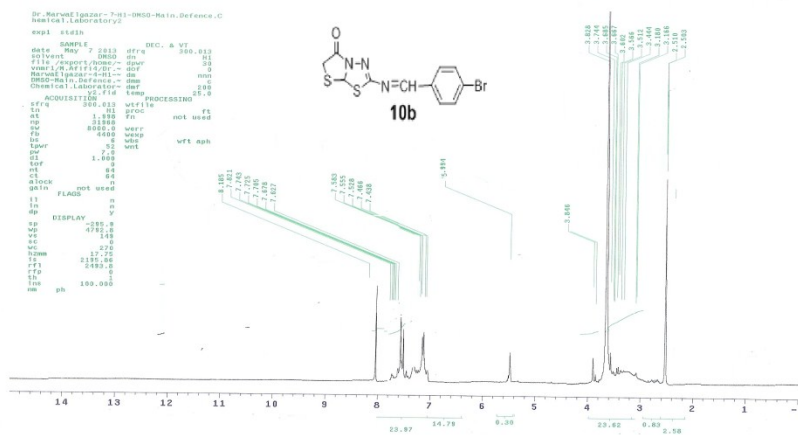
[illegible]

COc1ccc(cc1)/N=N/c2sc3c(s2)nc(=O)[nH]3
10a

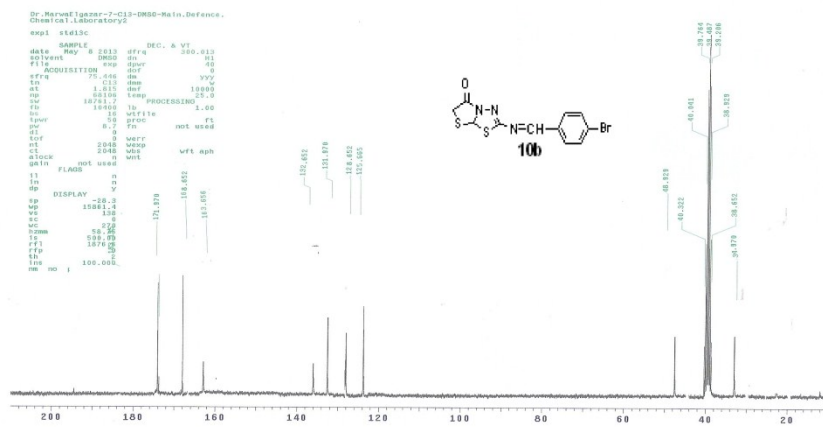
13



Compound 10b (¹H-NMR)



Compound 10b (¹³C-NMR)



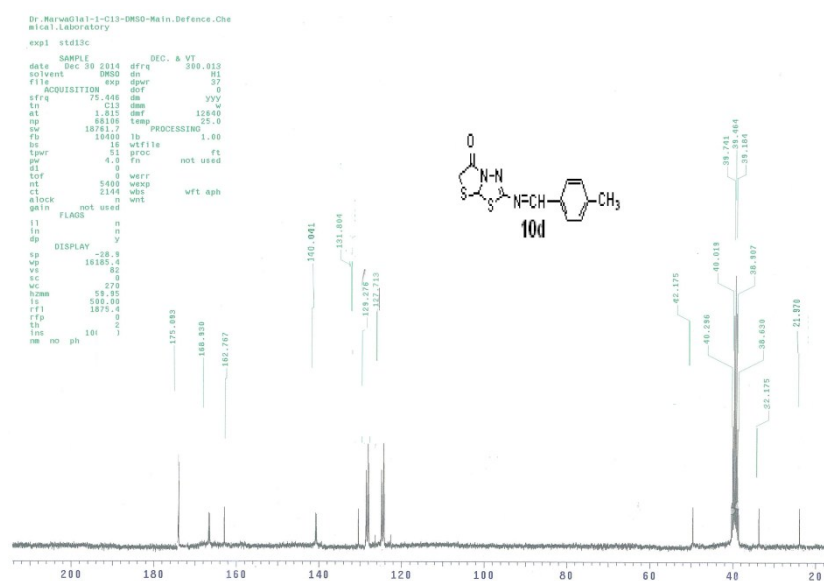
[illegible]

expt std33c
 SAMPLE DEC. & VT
 date May 8 2013 dfrq 380.013
 solvent DMF03 cu 81
 file exp dpr 40
 ACQUISITION exp dpr 0
 freq 75.464 vvv
 t1 c13 dms
 t2 1.811 dms
 mp 00100 temp 25.0
 nu 18751.2 gnt
 nu PROCESSING 1.60
 rb 10400 lb
 r1 15 wfile ft
 tprw 59 proc ft
 di 8.7 rn not used
 tdir 0
 nt 2848 weep
 CL 2848 wft aph
 alock
 gnt not used
 gnt
 FLAGS
 t1 n
 tn n
 dp v
 DISPLAY
 sp -26.3
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 h2om 599.0
 f1 1876.0
 rfp
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 tms 100.00
 nm no

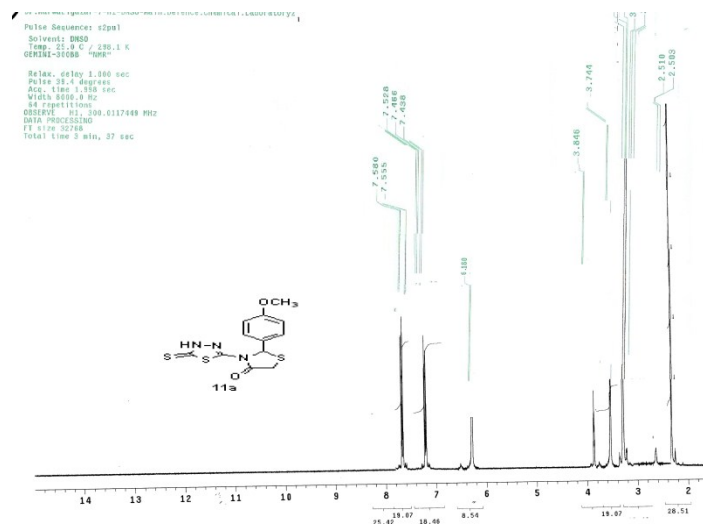
158.452
 138.452
 137.550
 137.078
 131.850
 131.713
 46.322
 45.685
 38.452
 38.429
 35.685

O=C1N=NC(S1)CNc2ccc(Cl)cc2
 10c

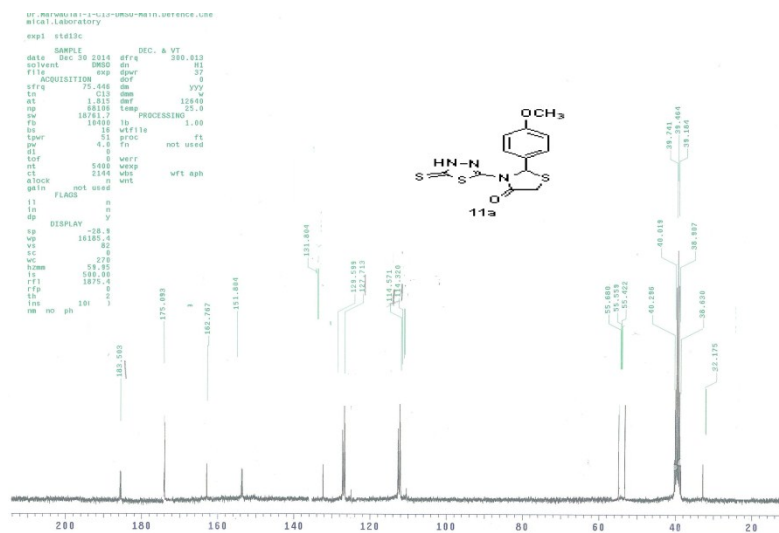
Compound 10d (¹³C-NMR)



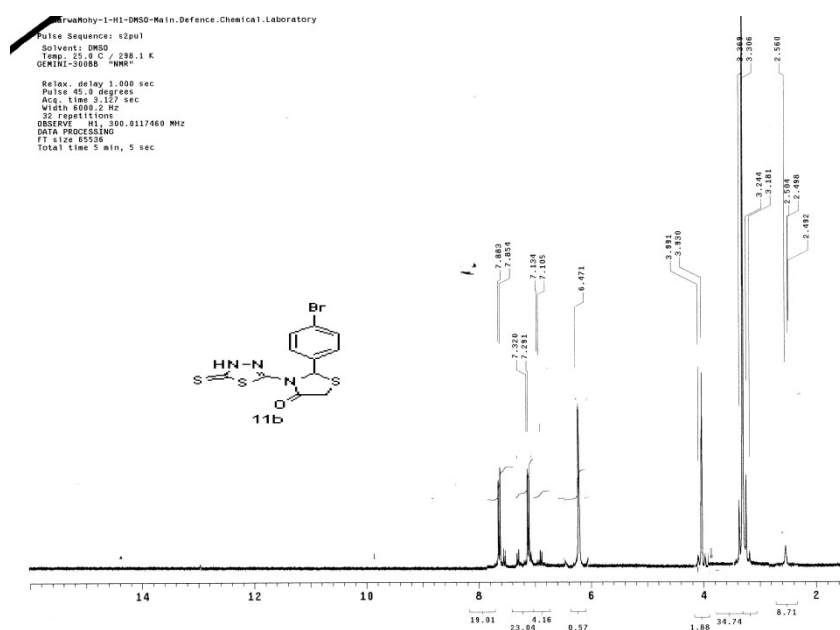
Compound 11a (¹H-NMR)



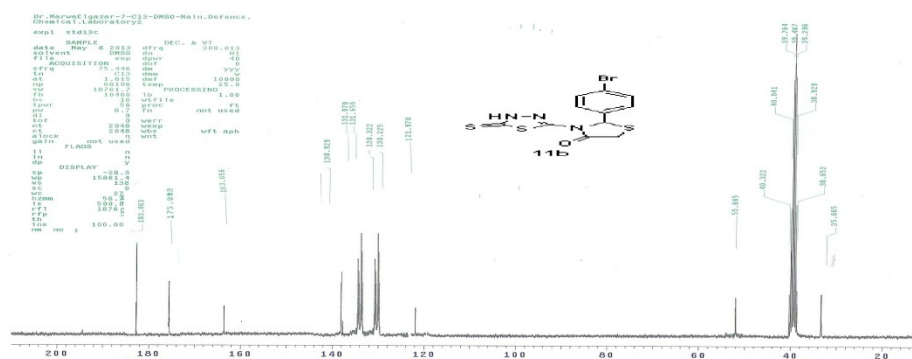
Compound 11a (¹³C-NMR)



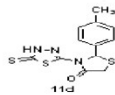
Compound 11b (¹H-NMR)



Compound 11b (¹³C-NMR)



Compound 11c (¹H-NMR)



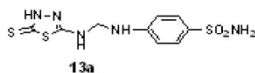
Dr. Sally Sameer-3-H1-DMSO-Main, DETENCE, Chemical, LAMARCA, 1997

Pulse Sequence: s2pu1

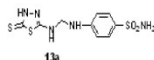
Solvent: DMSO

Temp. 25.0 C / 298.1 K

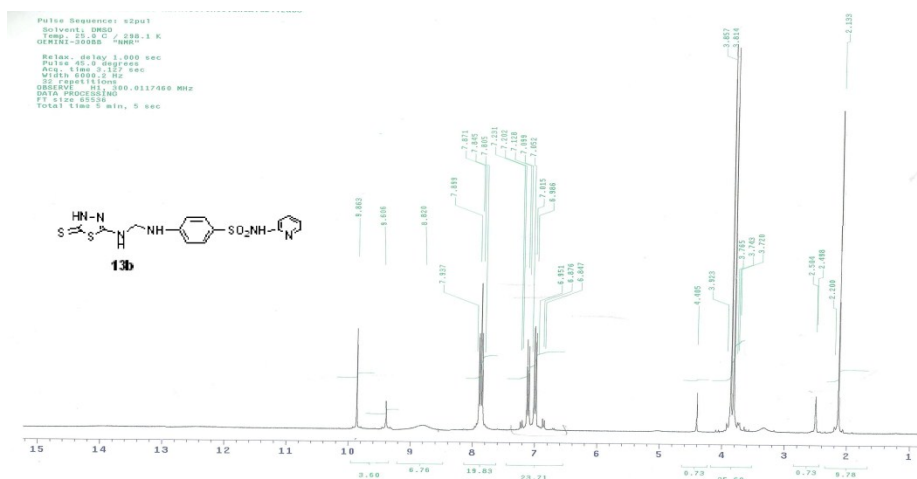
GRMN1-300B5 "NMR"



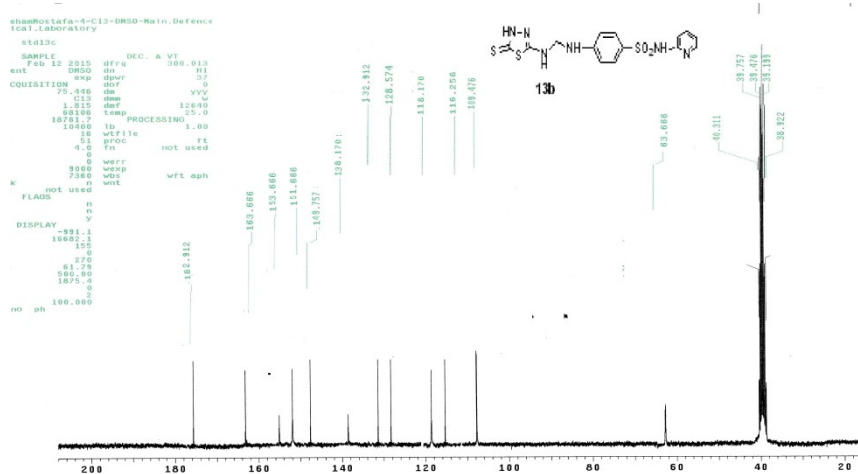
Dr. Marwa Elgazar-7-C13-DMSO-Main, Defence.
Chemical.Laboratory2



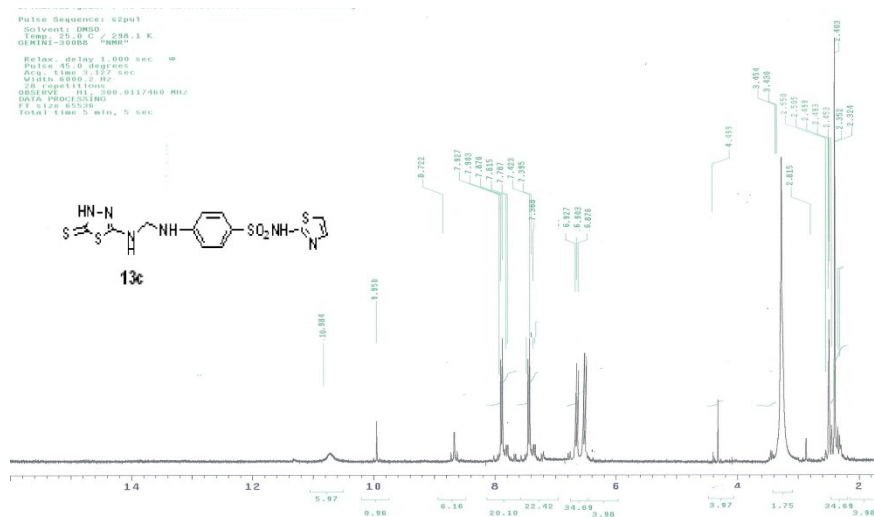
19



Compound 13b (^{13}C -NMR)



Compound 13c (^1H -NMR)



Compound 13c (^{13}C -NMR)

