

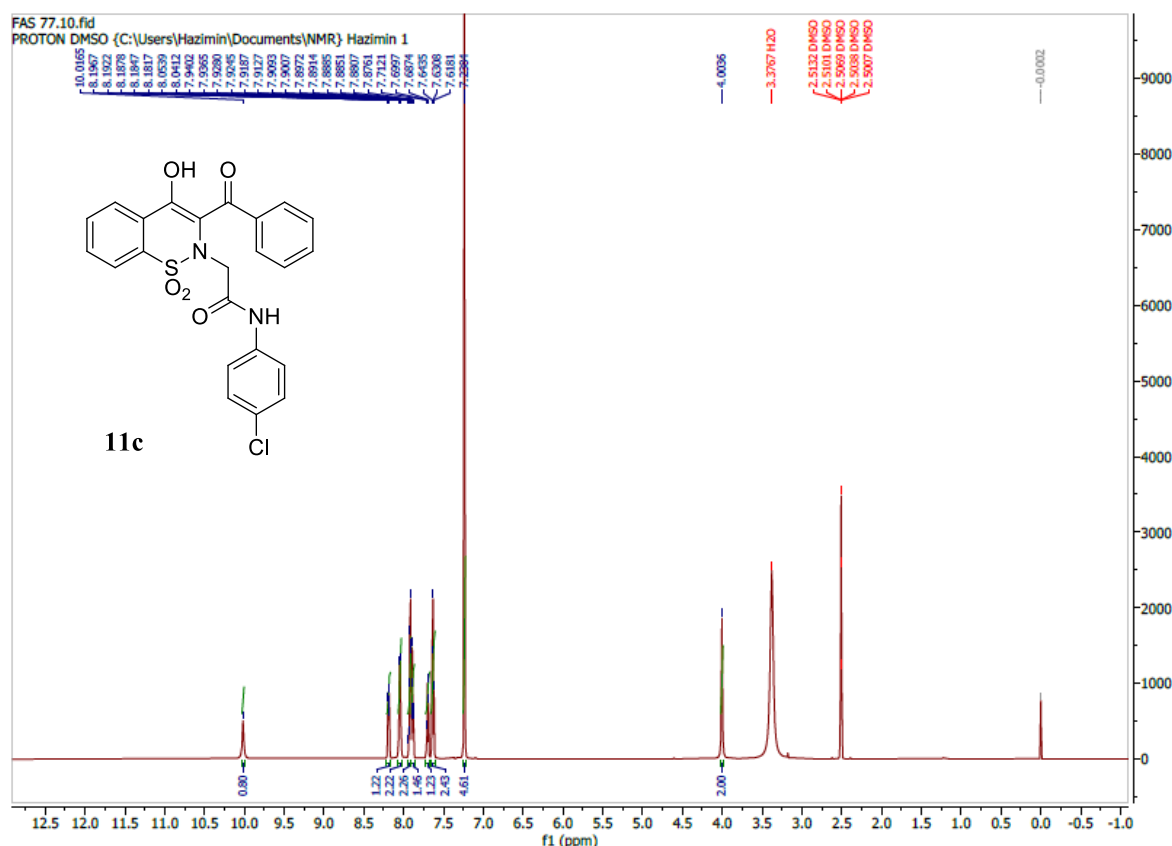
Supplementary Materials

Synthesis and α -Glucosidase Inhibition Activity of 2-[3-(Benzoyl/4-bromobenzoyl)-4-hydroxy-1,1-dioxido-2H-benzo[e][1,2]thiazin-2-yl]-N-arylacetamides: An *In Silico* and Biochemical Approach

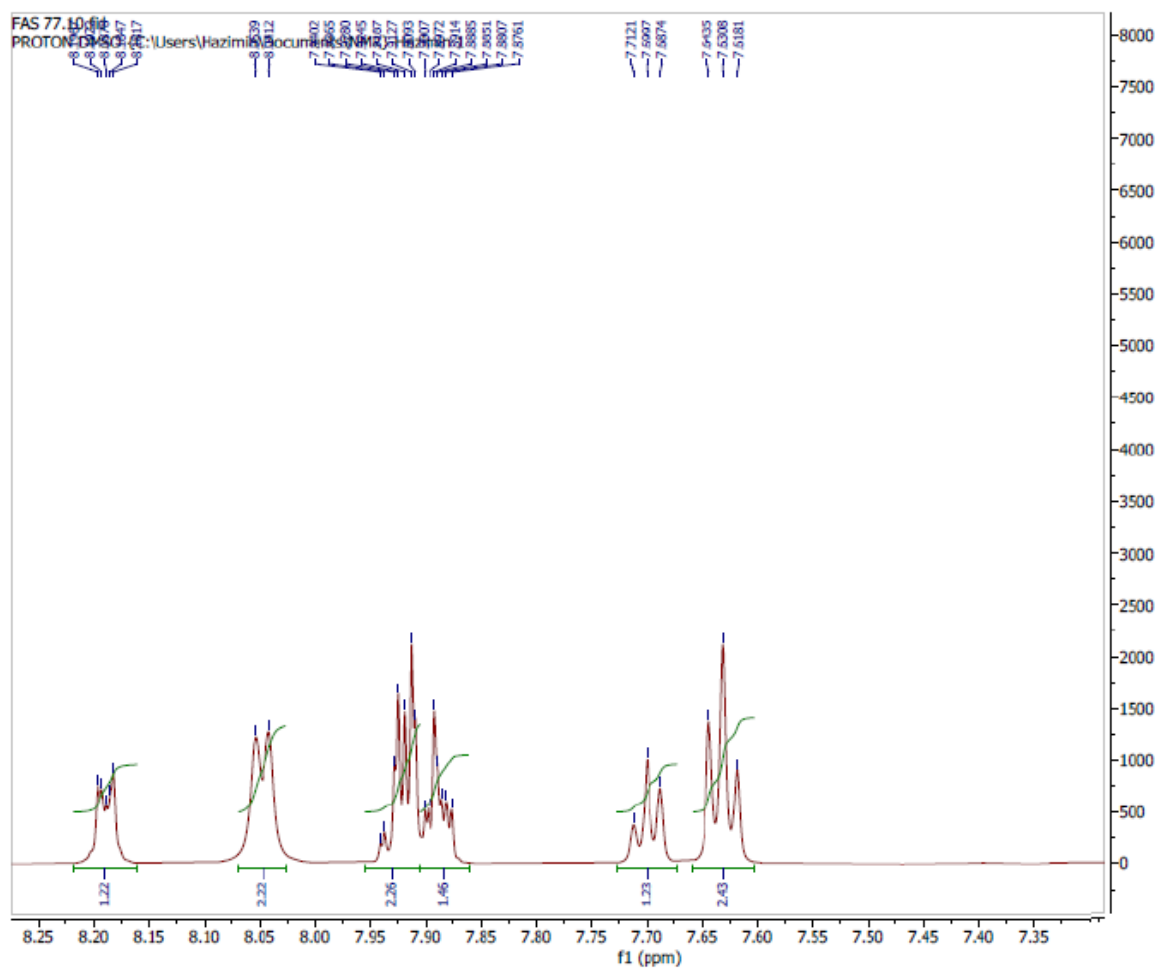
Furqan Ahmad Saddique, Sana Aslam, Matloob Ahmad *, Usman Ali Ashfaq, Muhammad Muddassar, Sadia Sultan, Saman Taj, Muzammil Hussain, Dae Sung Lee and Magdi E. A. Zaki *

(Supplementary Data File)

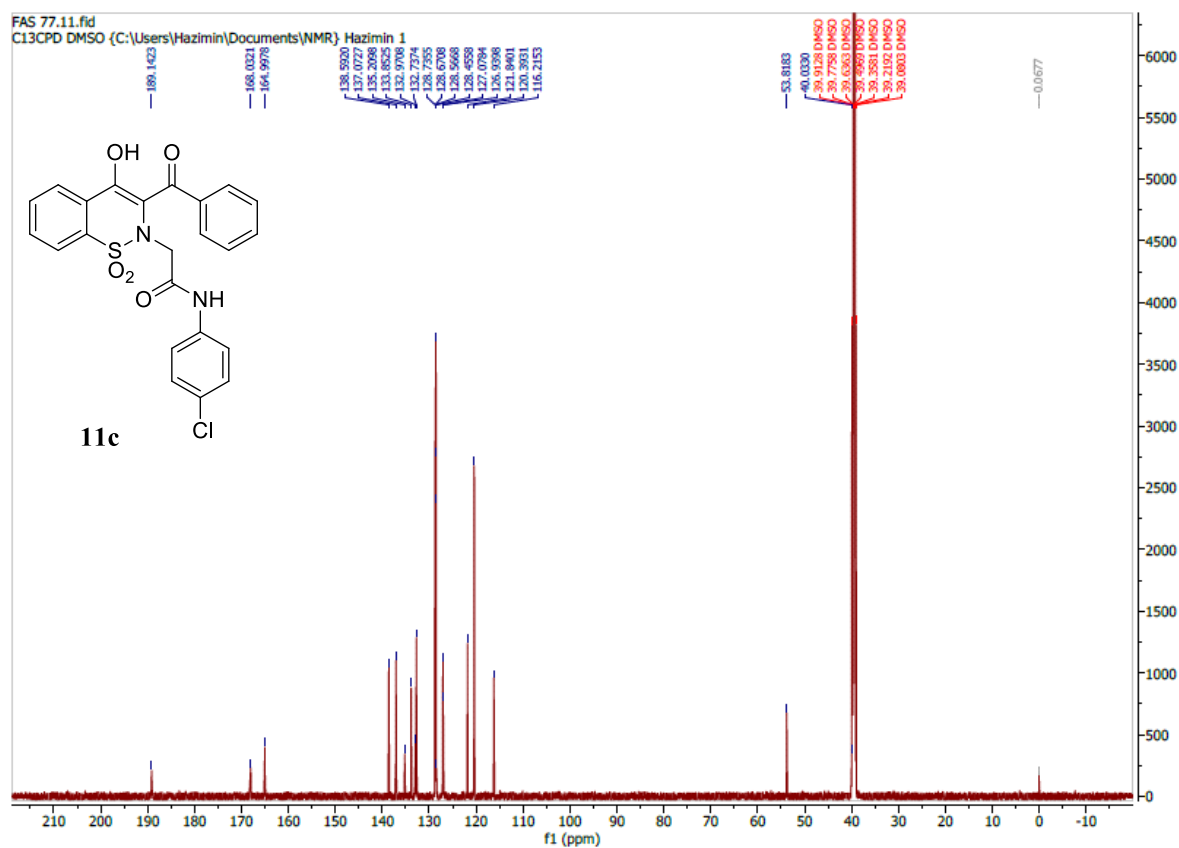
^1H NMR, ^{13}C NMR and MS Spectra of potent compounds



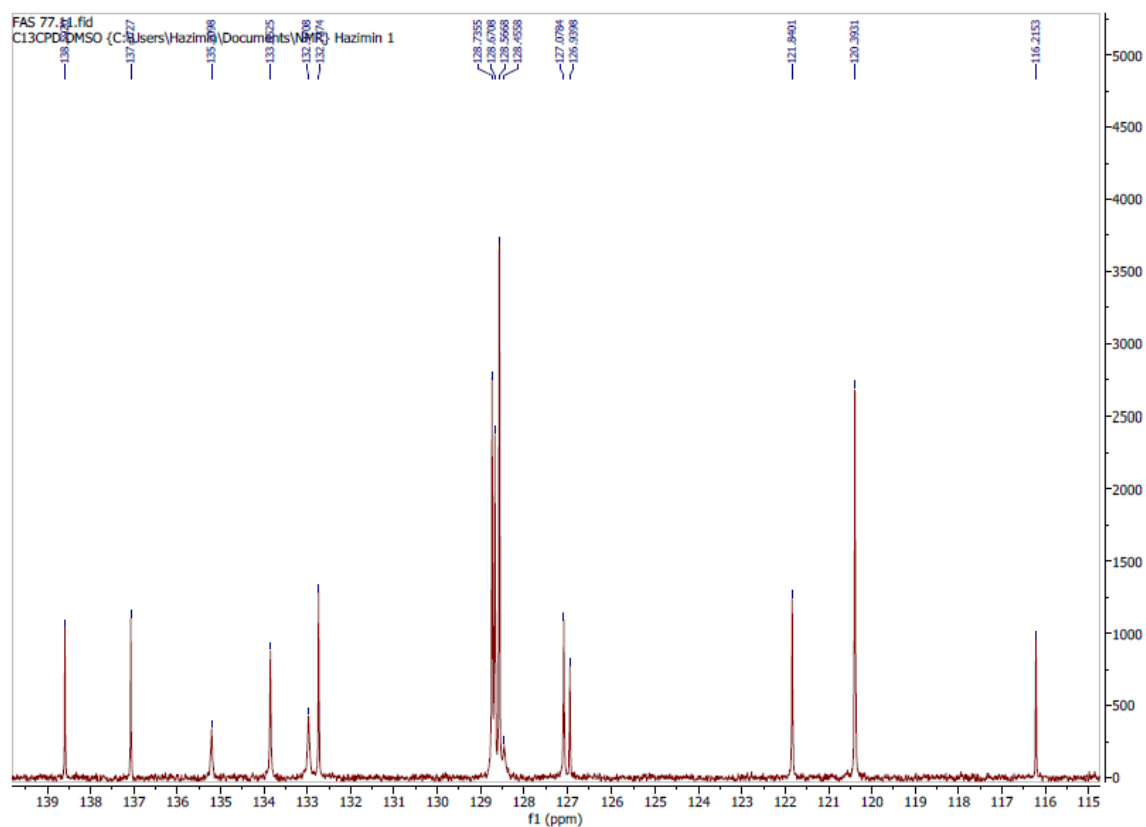
^1H NMR Spectrum of compound **11c**.



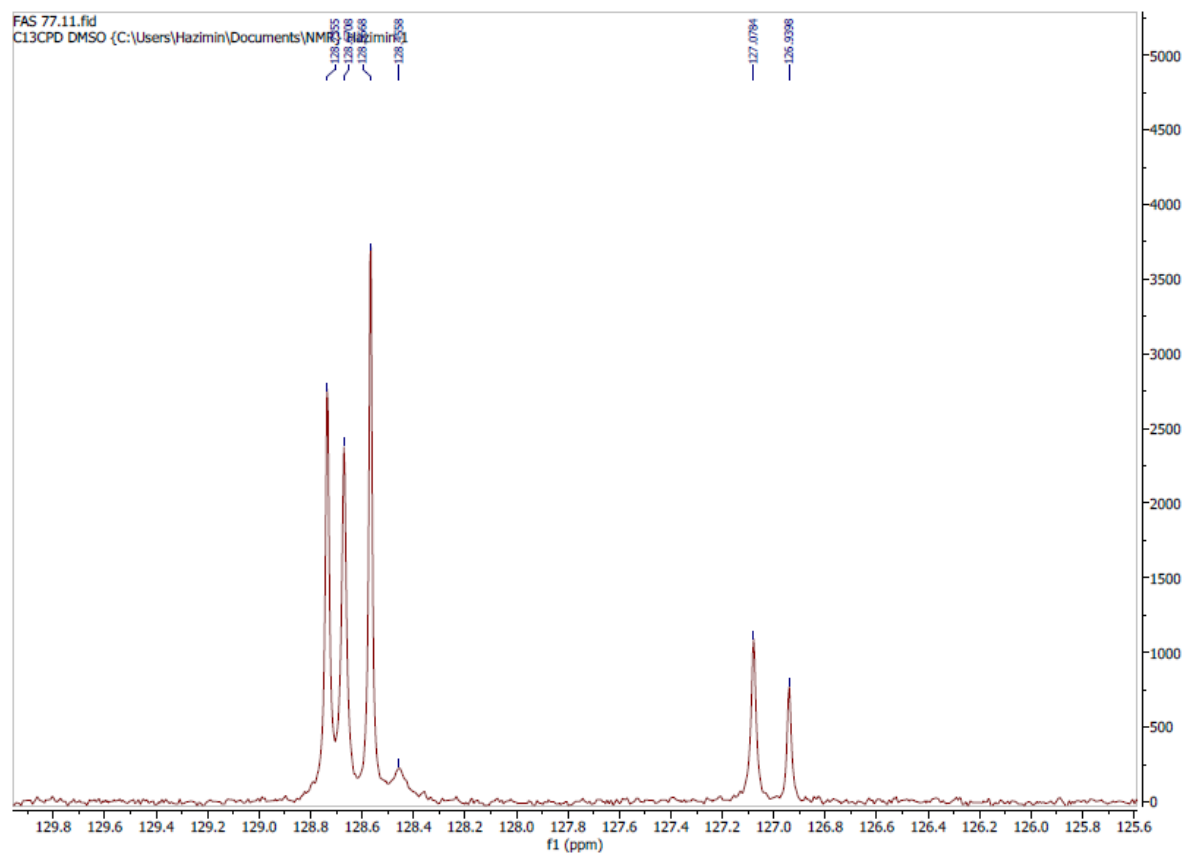
Expanded form of ^1H NMR Spectrum of compound **11c** (region 7.60-8.25 ppm).



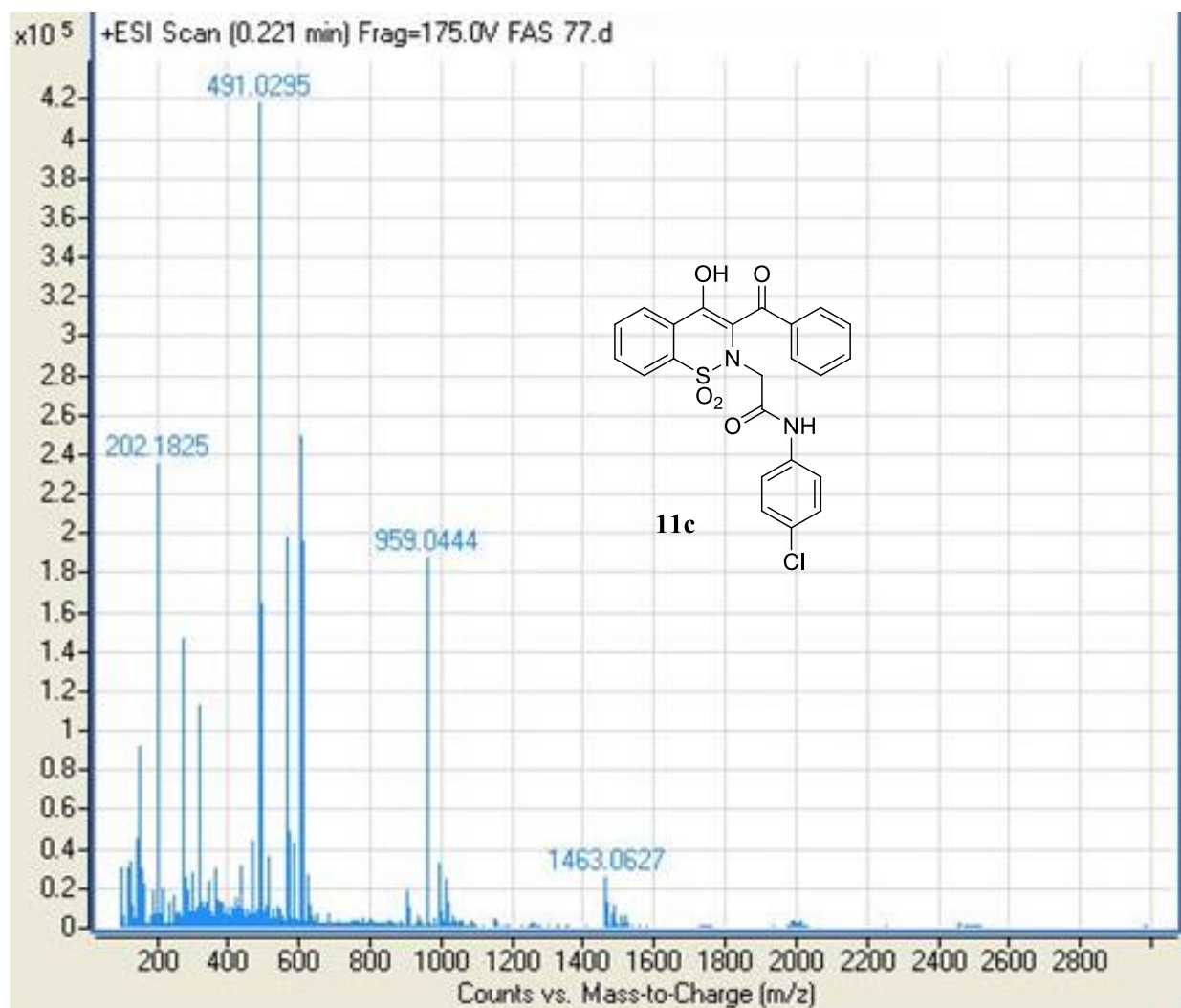
^{13}C NMR Spectrum of compound **11c**.



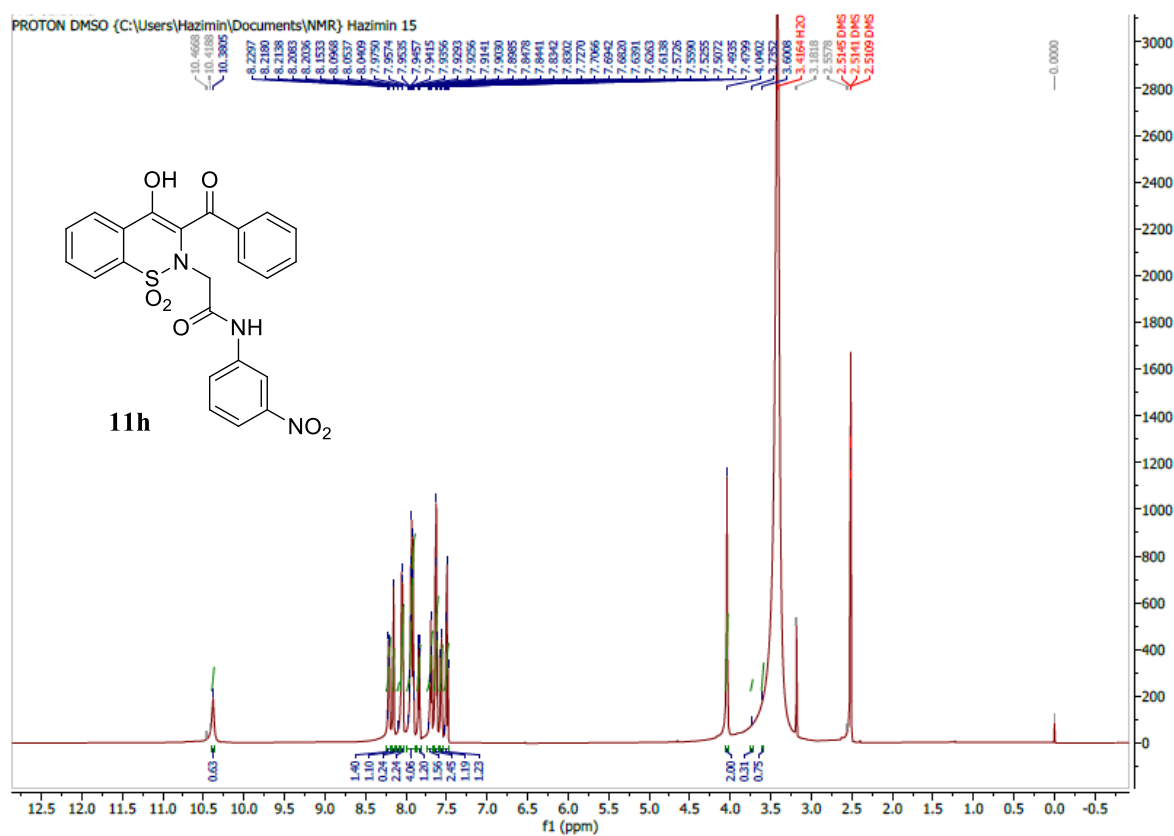
Expanded form of ^{13}C NMR Spectrum of compound **11c** (region 116-139 ppm).



Expanded form of ^{13}C NMR Spectrum of compound **11c** (region 126.8-129.0 ppm).

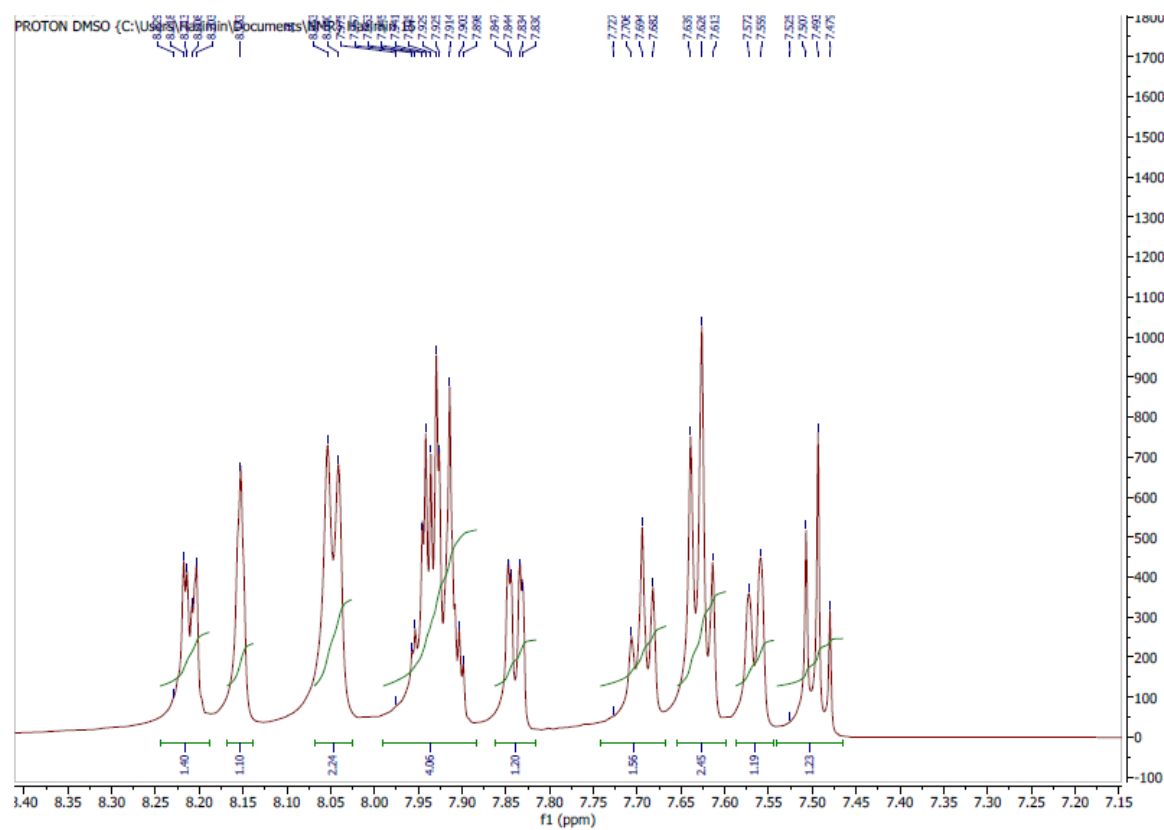


MS Spectrum of compound **11c**.

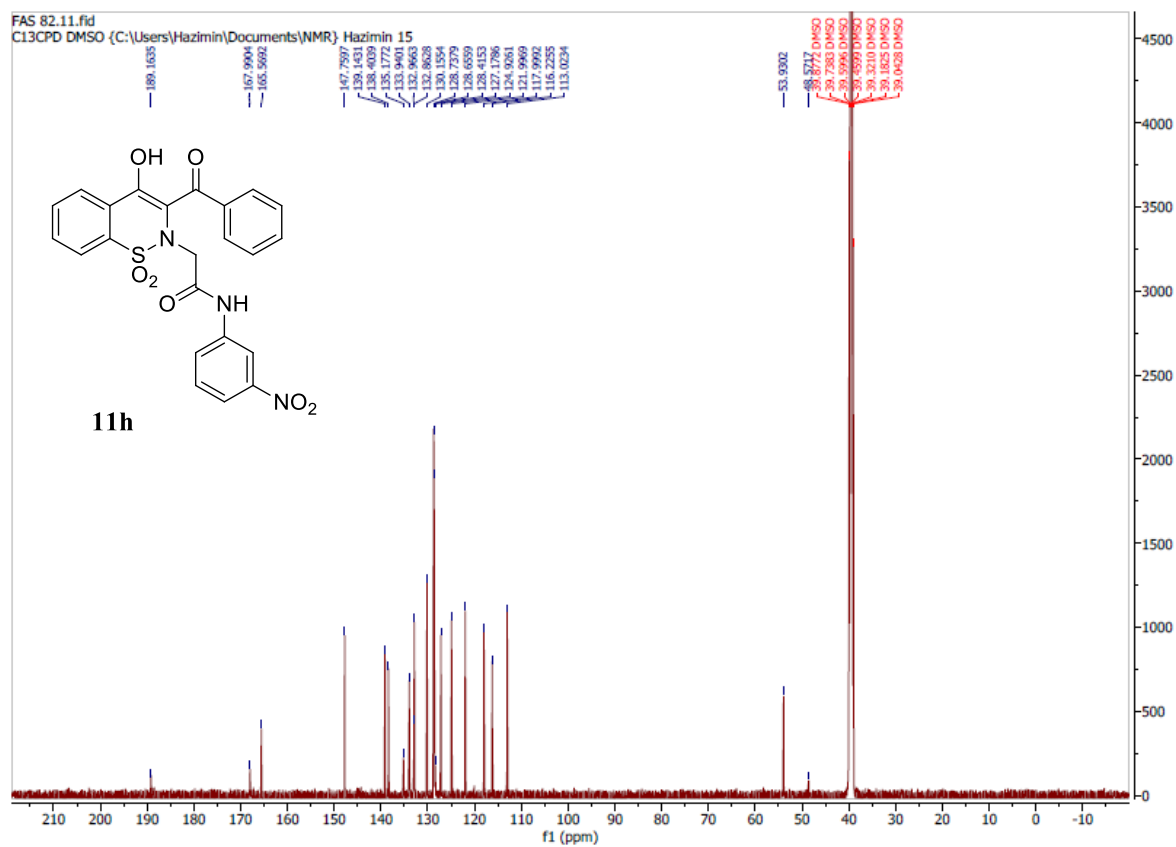


^1H NMR

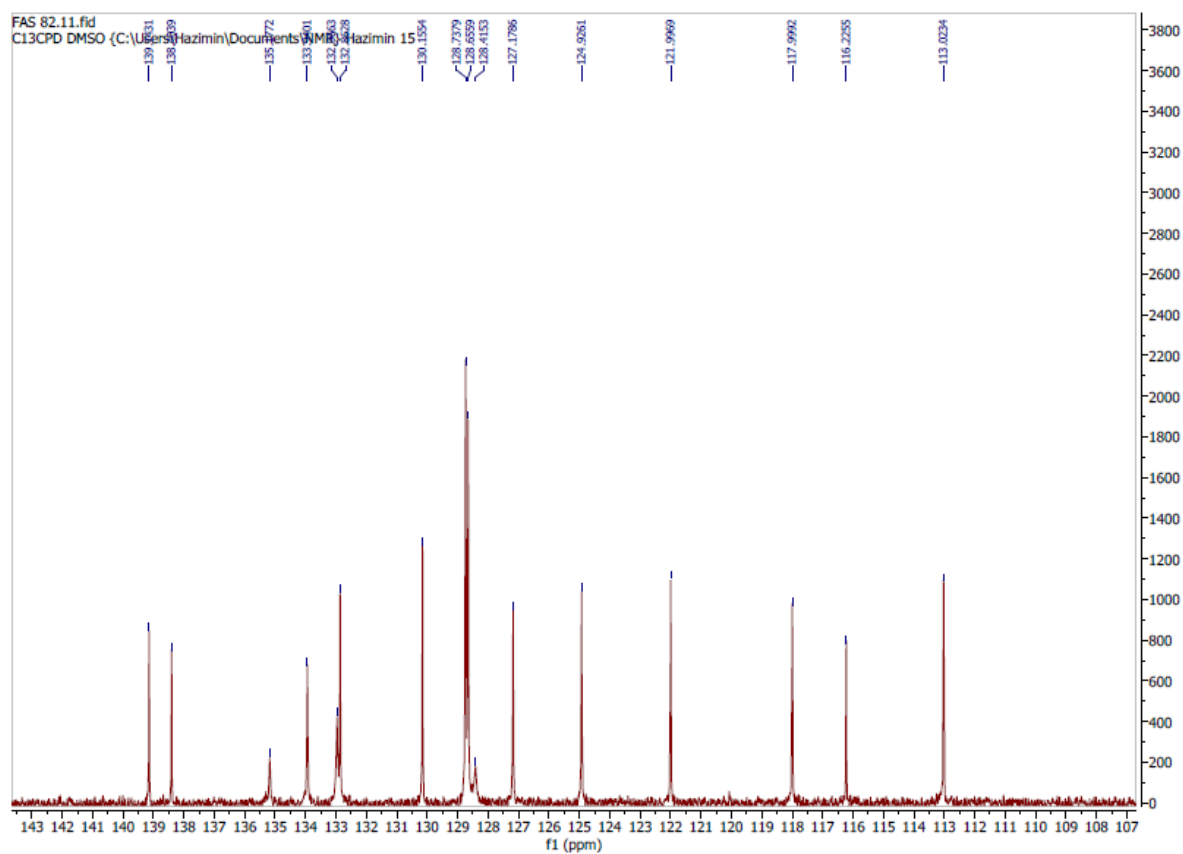
Spectrum of compound **11h**.



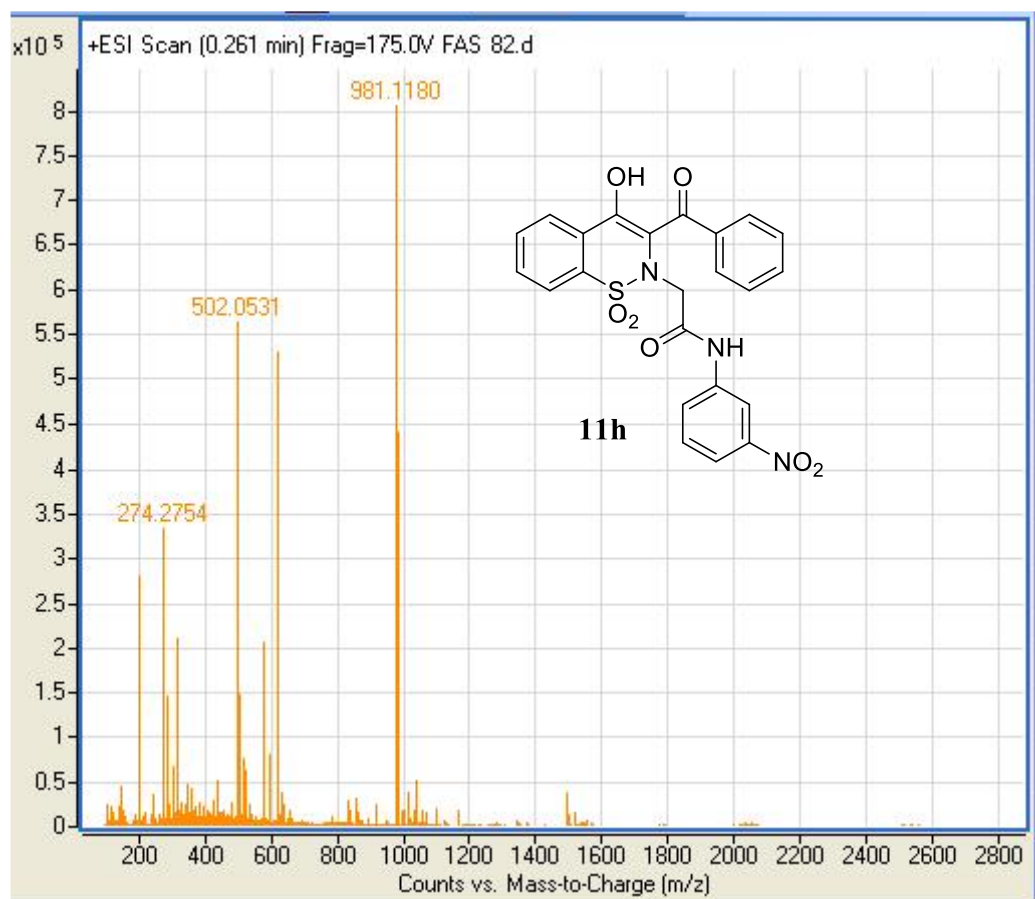
Expanded form of ^1H NMR Spectrum of compound **11h** (region 7.45-8.25 ppm).



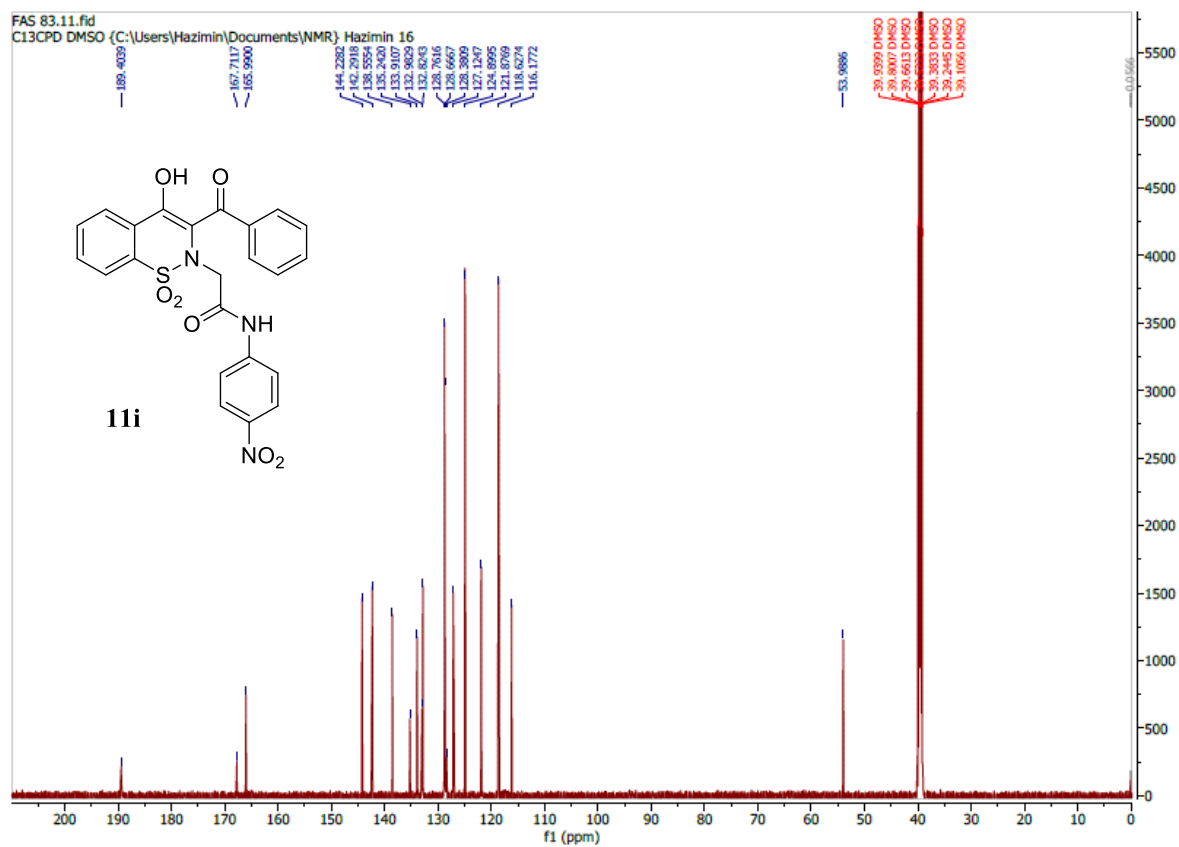
¹³C NMR Spectrum of compound **11h**.



Expanded form of ^{13}C NMR Spectrum of compound **11h** (region 113-140 ppm).

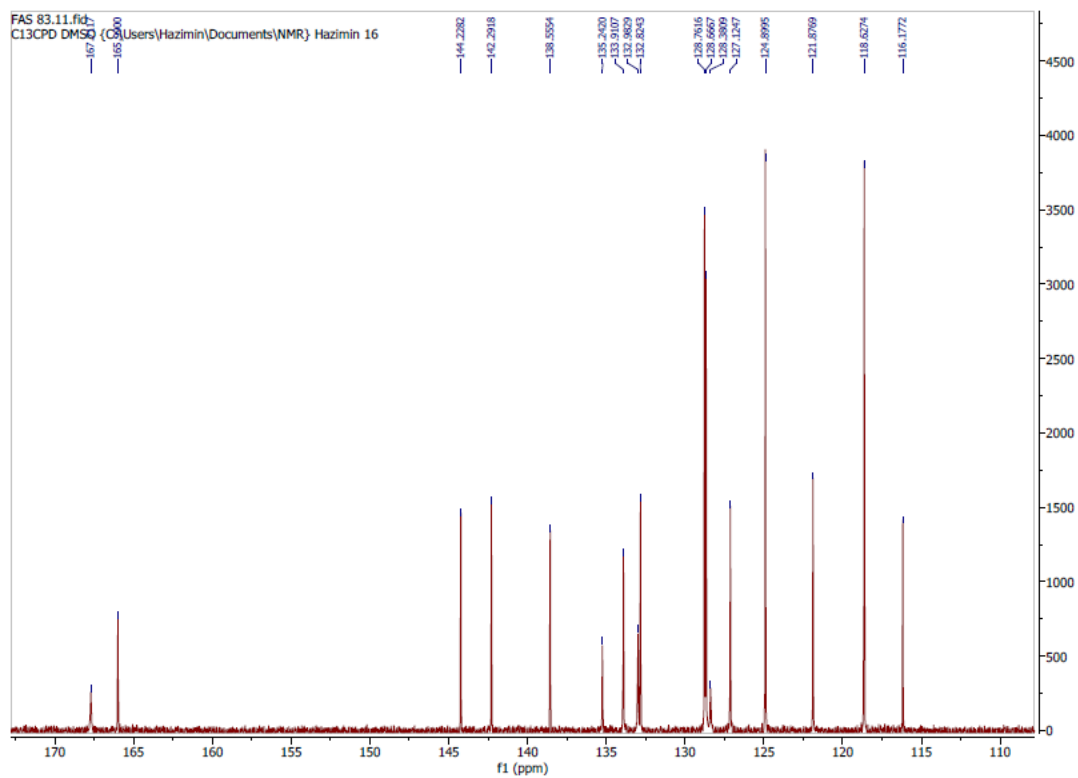


MS Spectrum of compound **11h**.

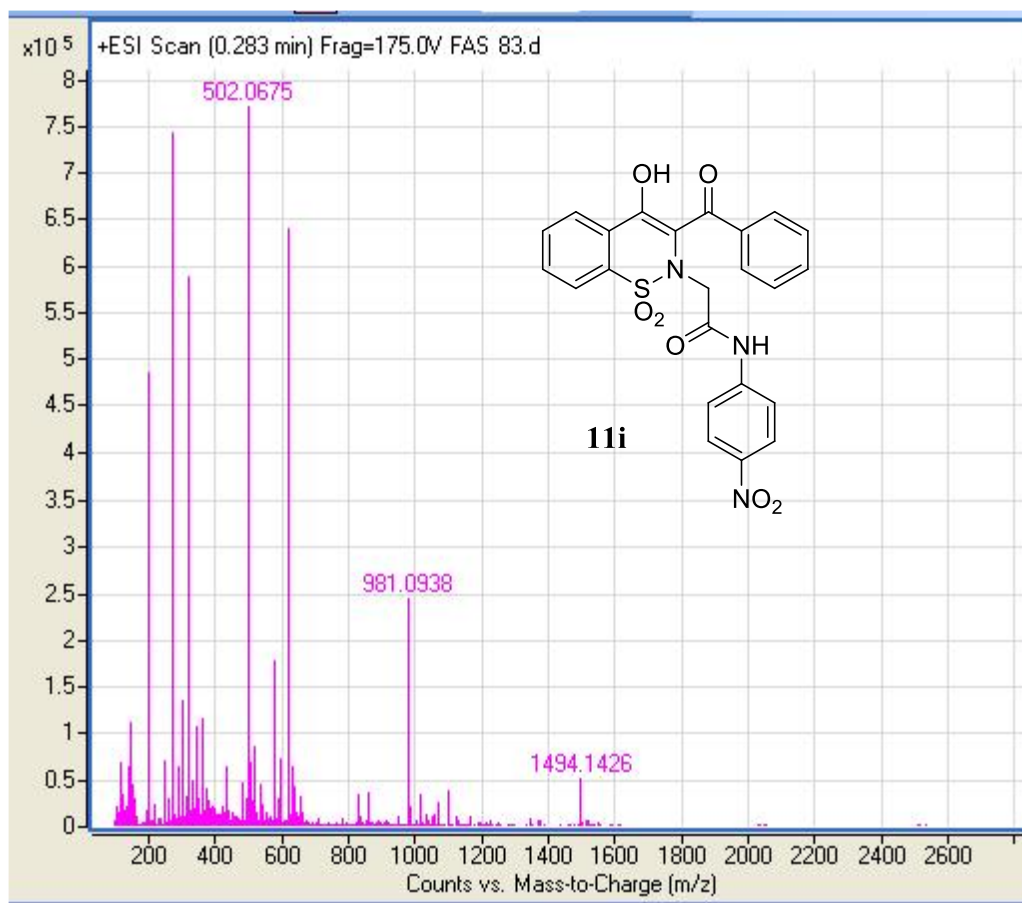


¹³C NMR

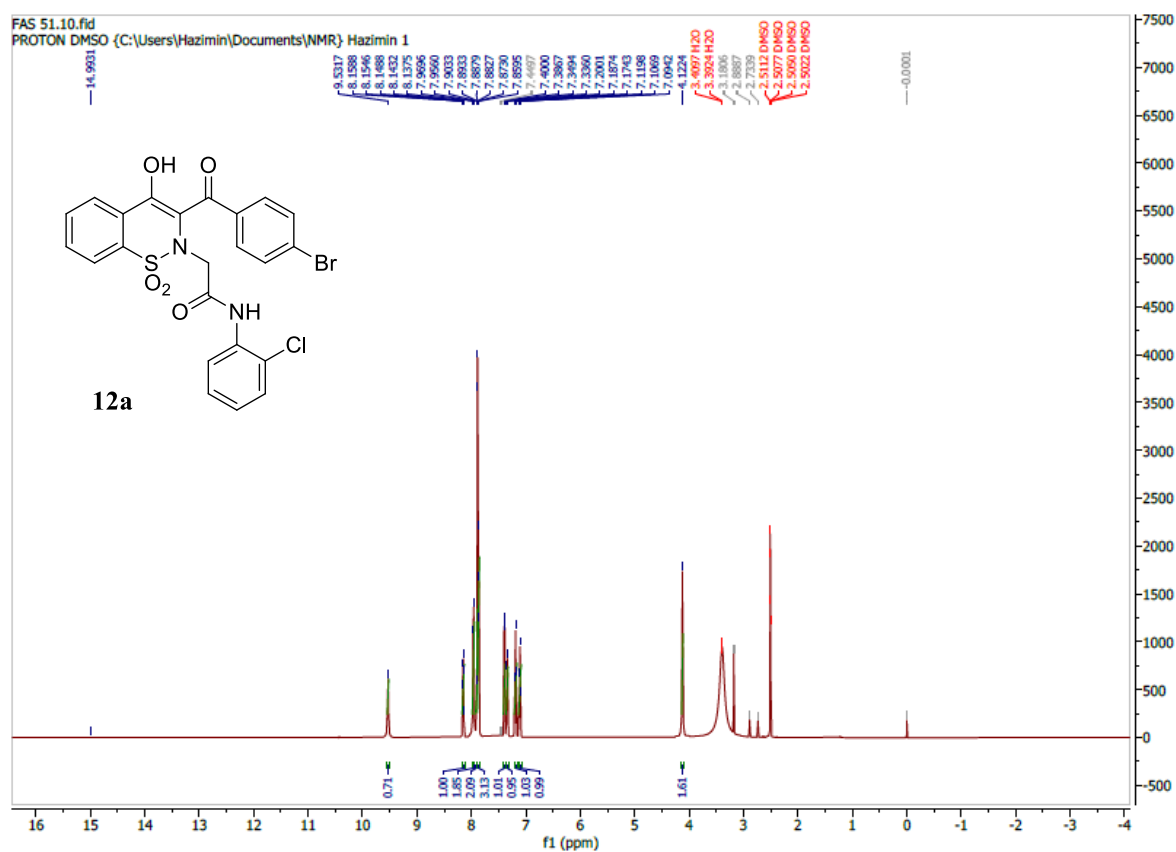
Spectrum of compound **11i**.



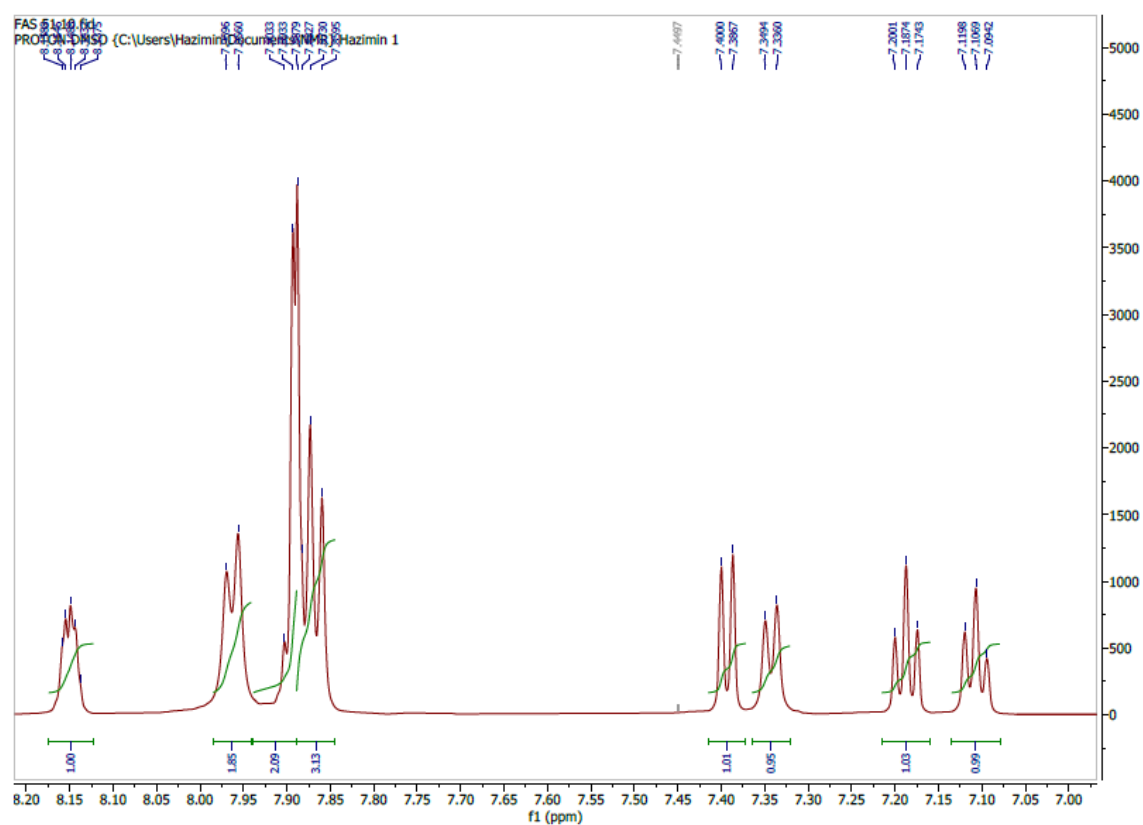
Expanded form of ¹³C NMR Spectrum of compound **11i** (region 115-145 ppm).



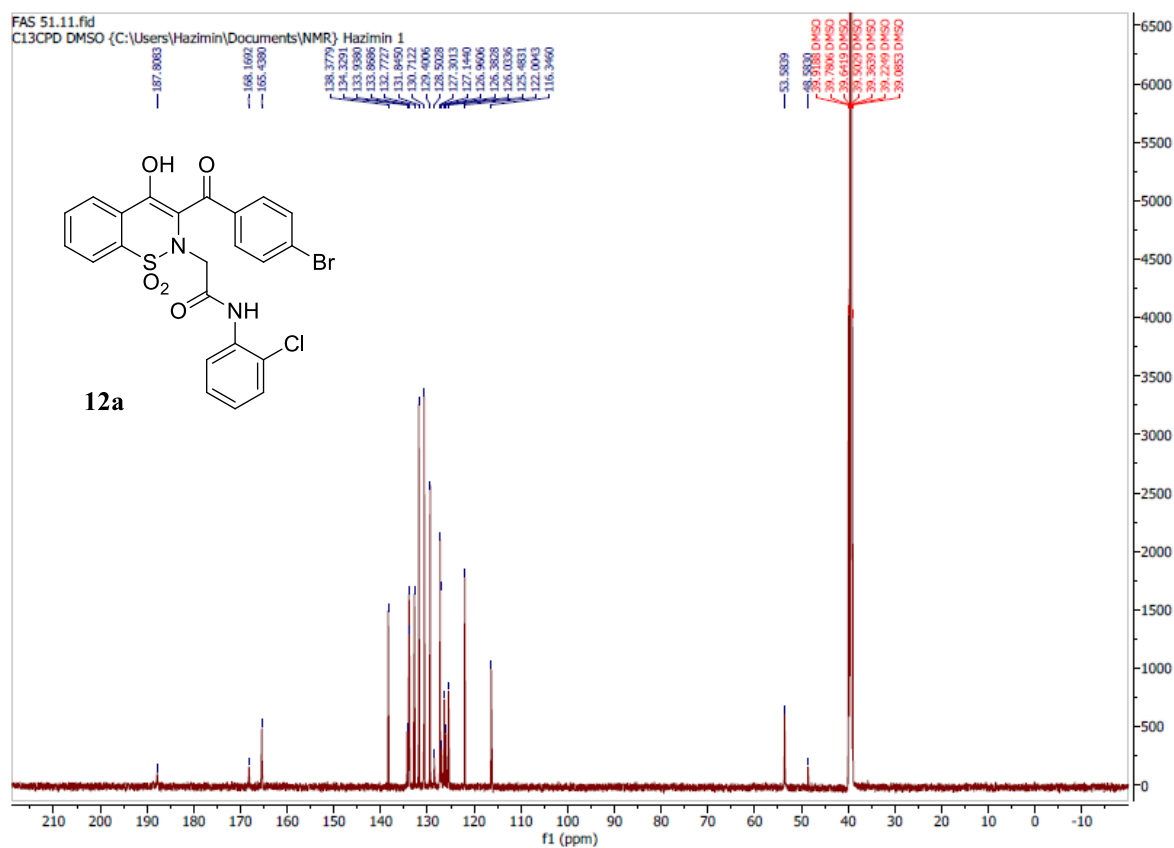
MS Spectrum of compound **11i**.



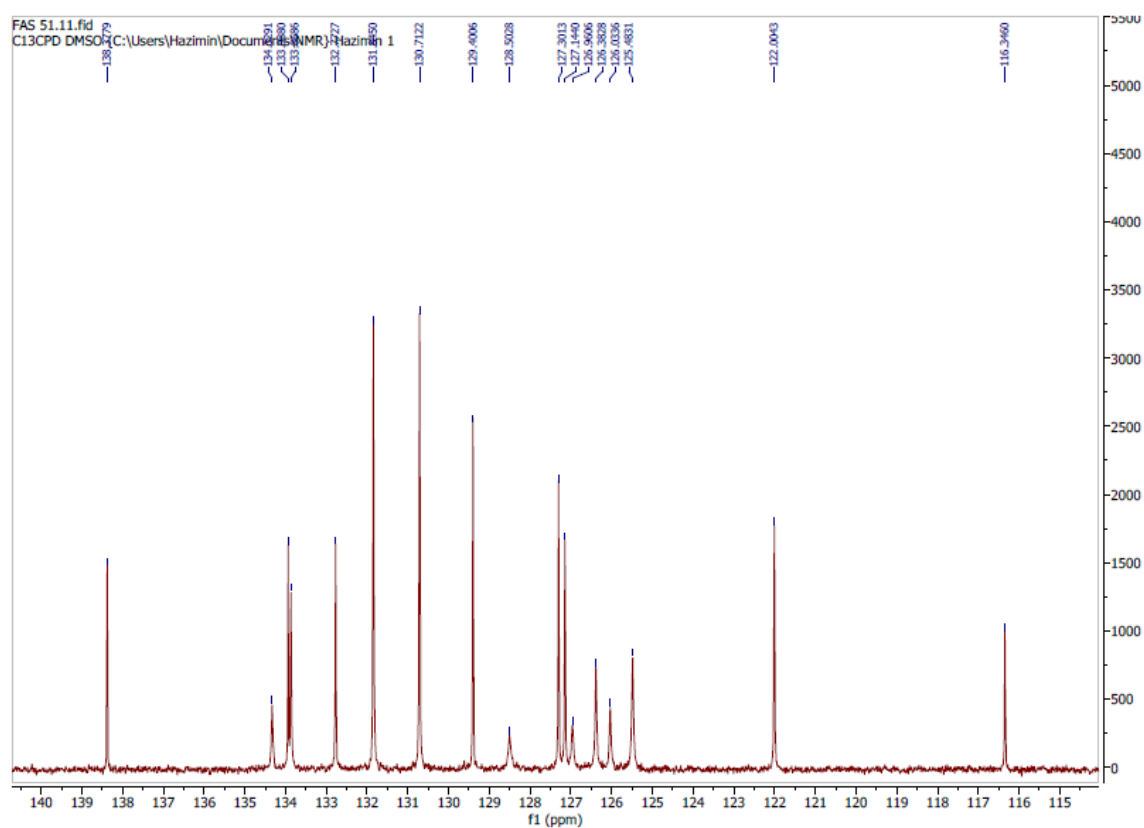
^1H NMR Spectrum of compound **12a**.



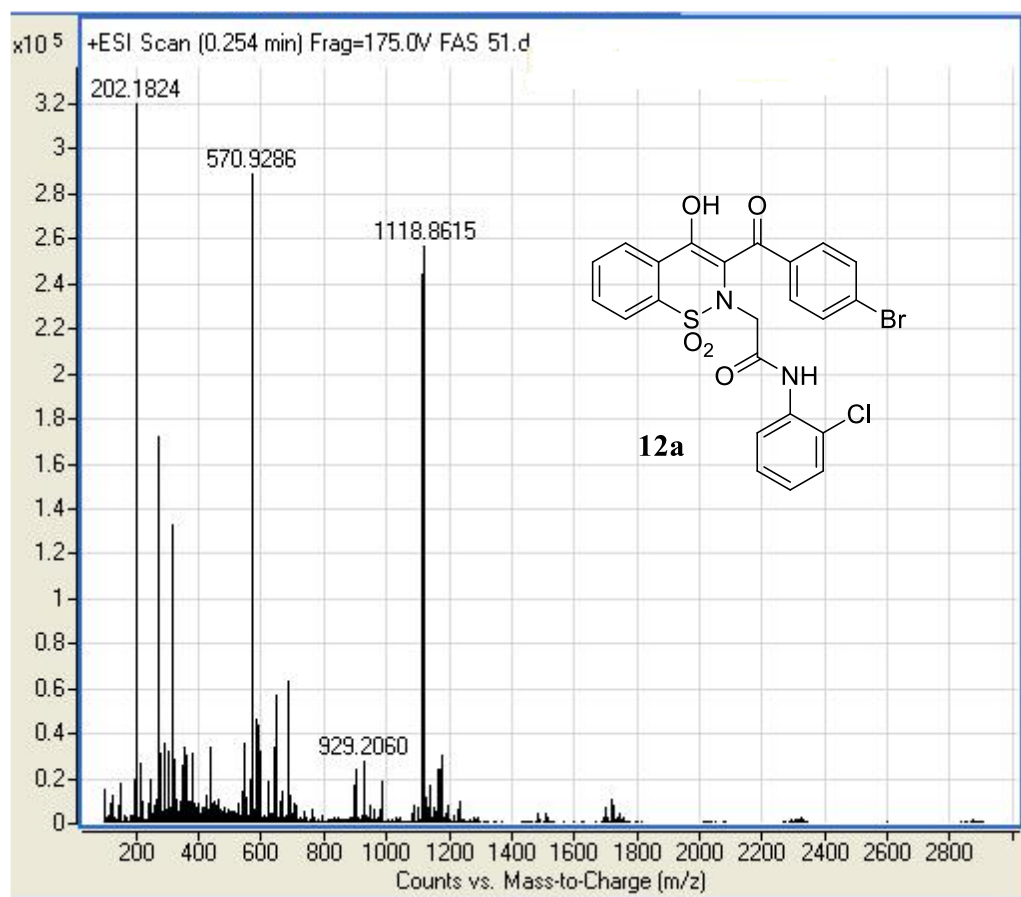
Expanded form of ^1H NMR Spectrum of compound **12a** (region 7.05-8.20 ppm).



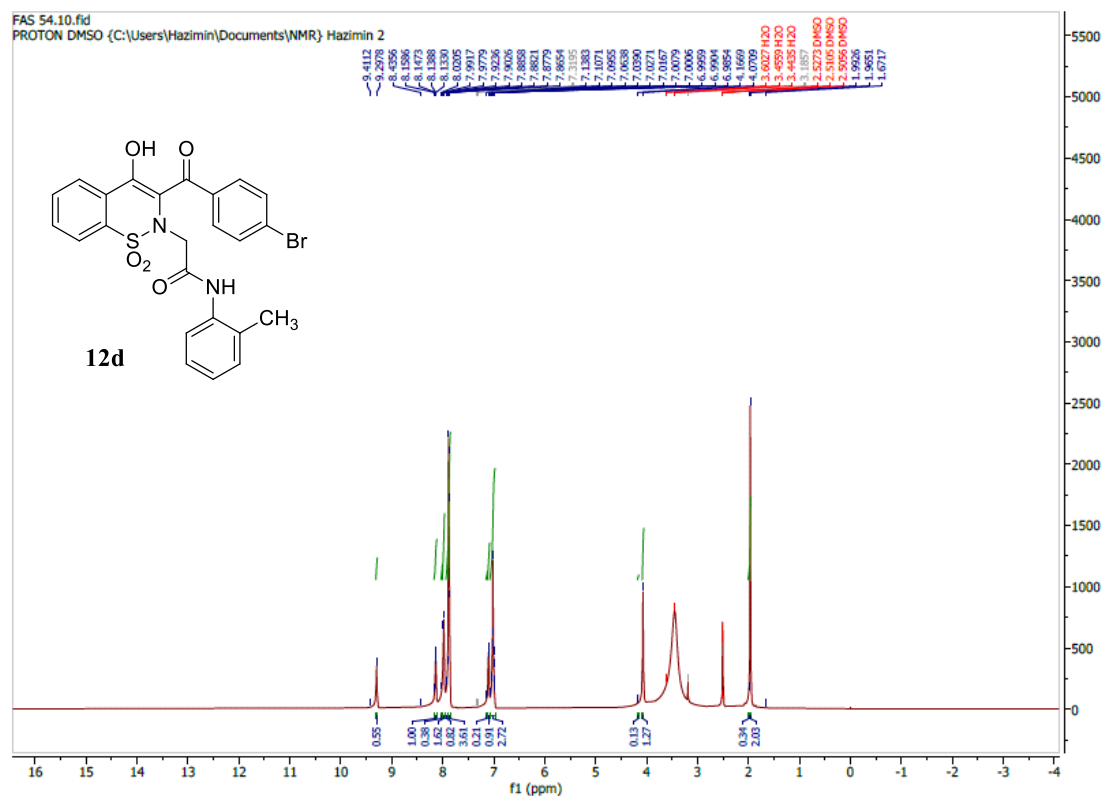
^{13}C NMR Spectrum of compound **12a**.

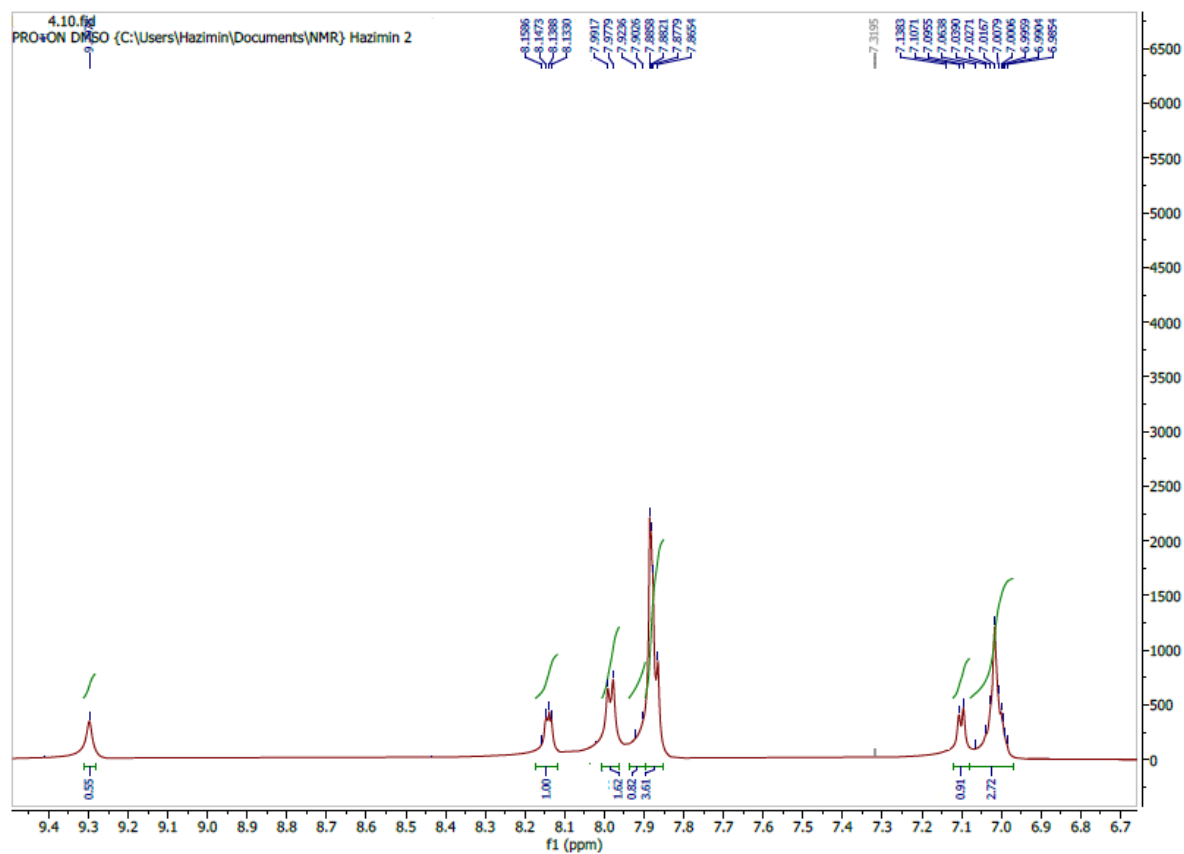


Expanded form of ^{13}C NMR Spectrum of compound **12a** (region 116-139 ppm).

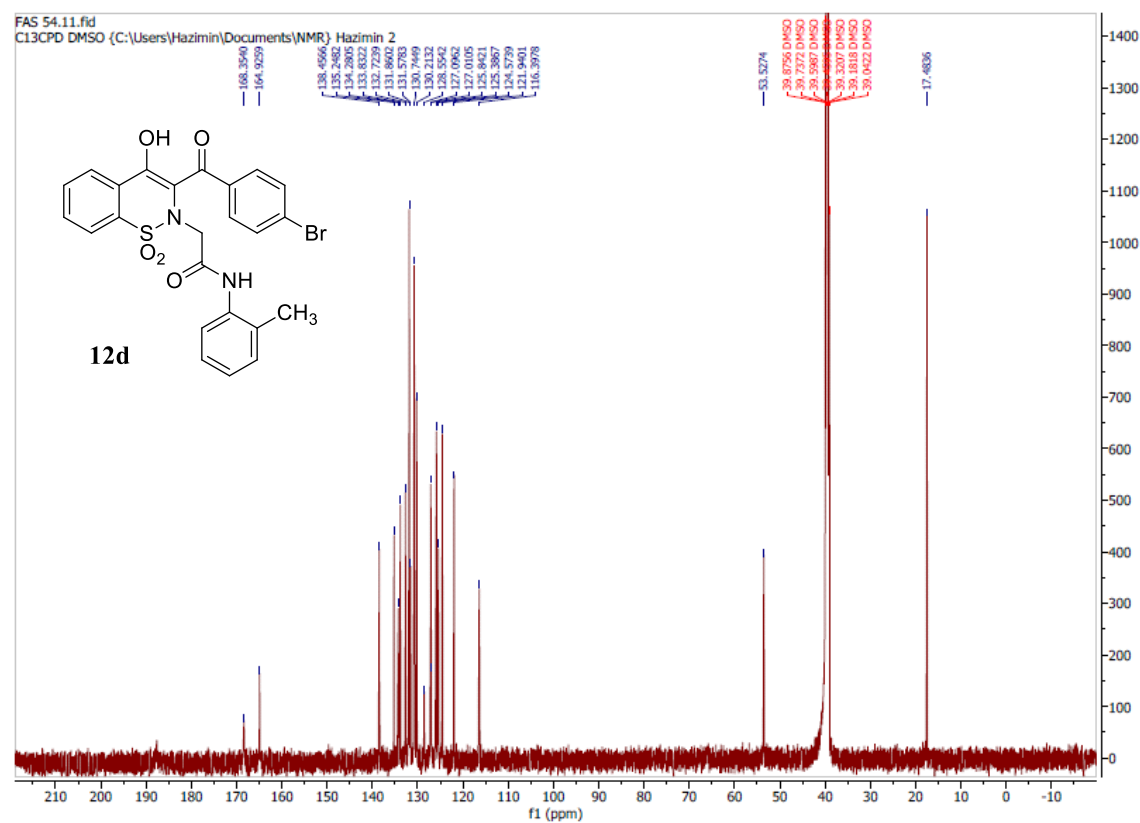


MS Spectrum of compound **12a**.

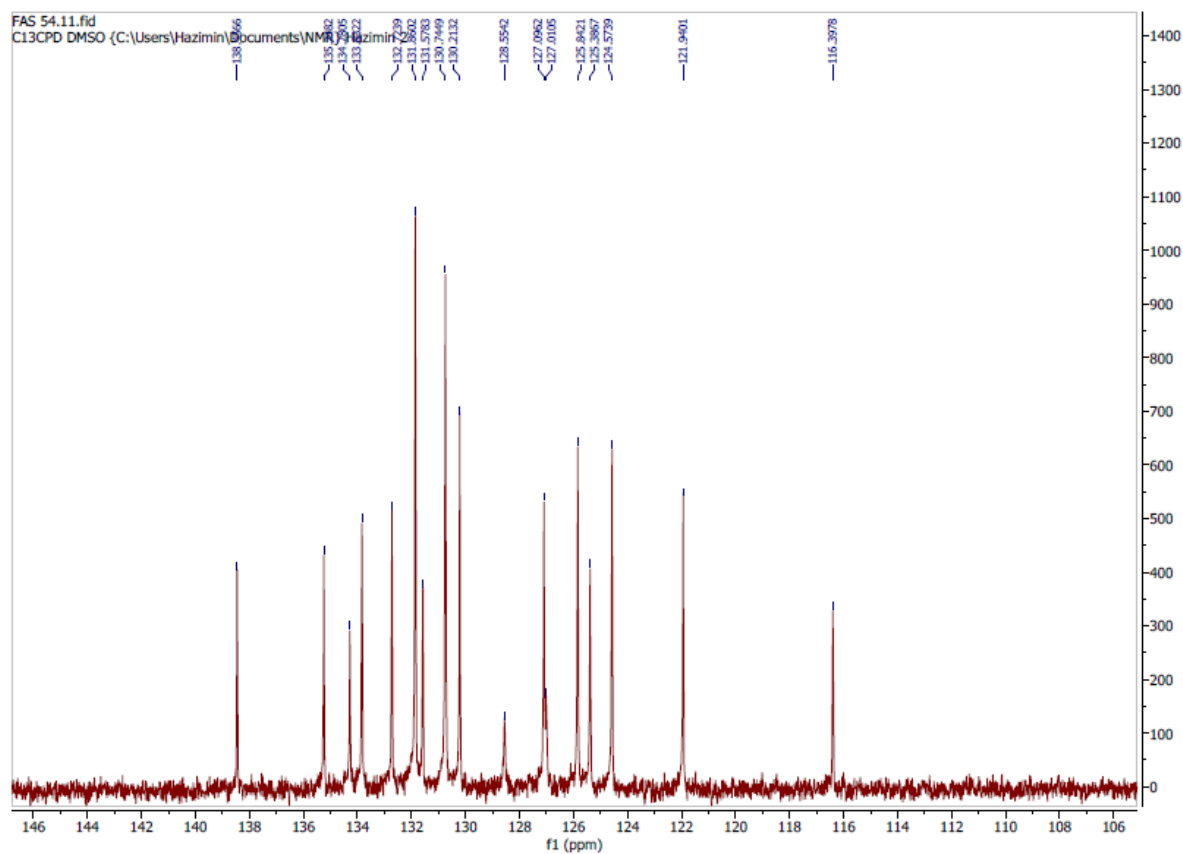




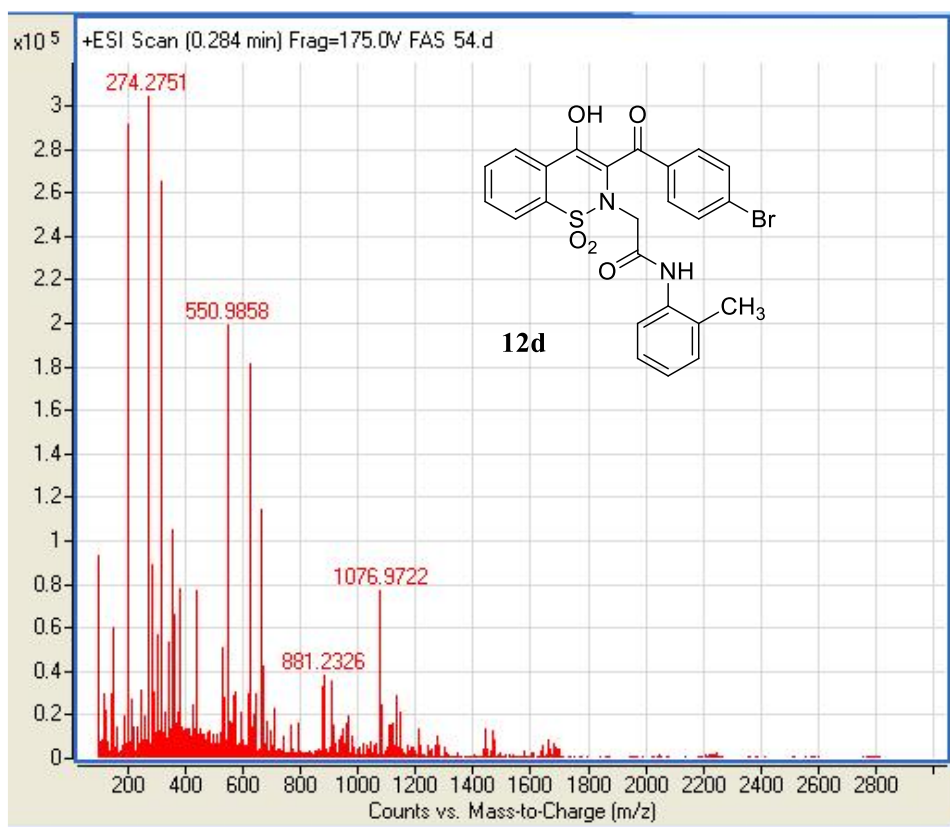
Expanded form of ^1H NMR Spectrum of compound **12d** (region 6.90-8.20 ppm).



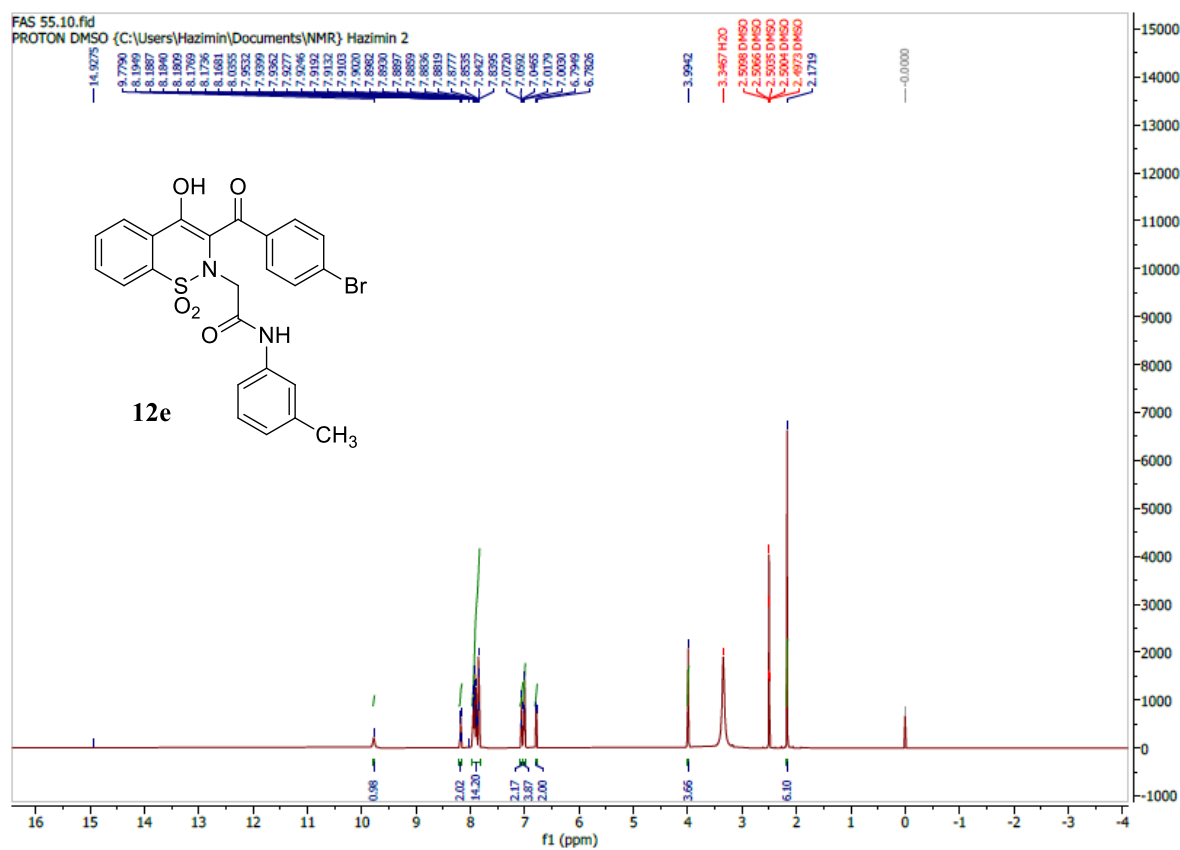
^{13}C NMR Spectrum of compound **12d**.



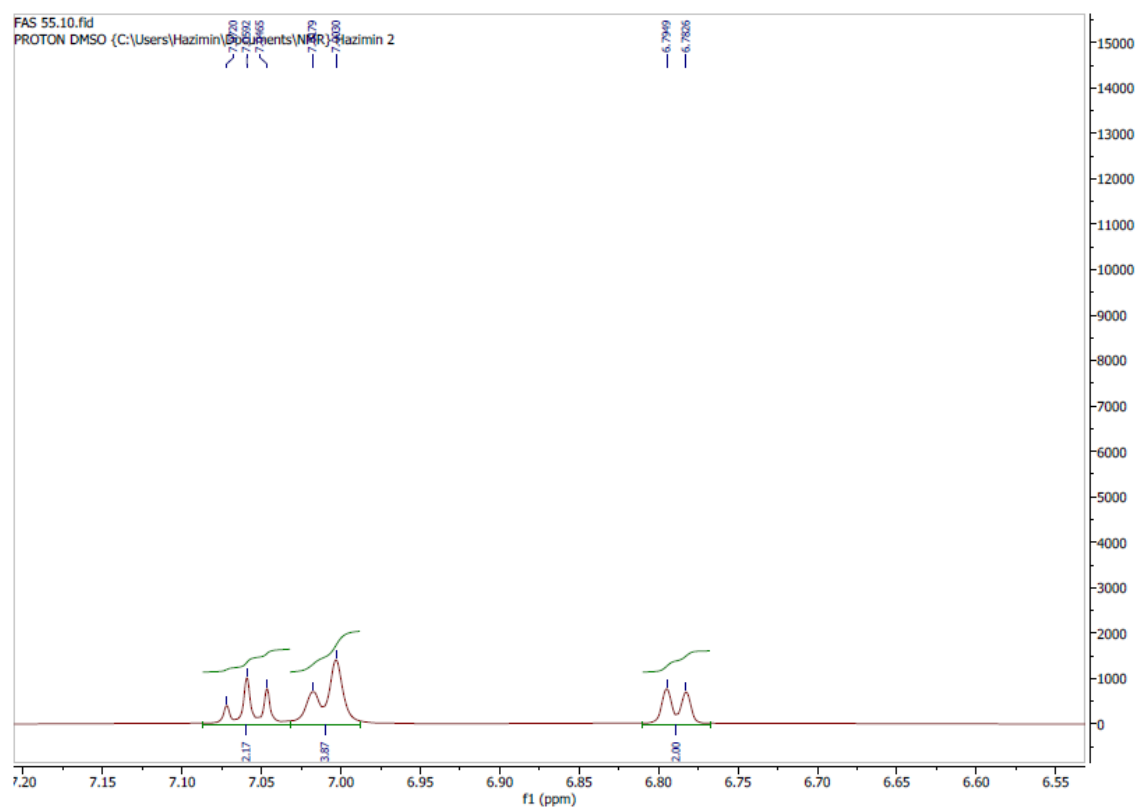
Expanded form of ^{13}C NMR Spectrum of compound **12d** (region 116-140 ppm).



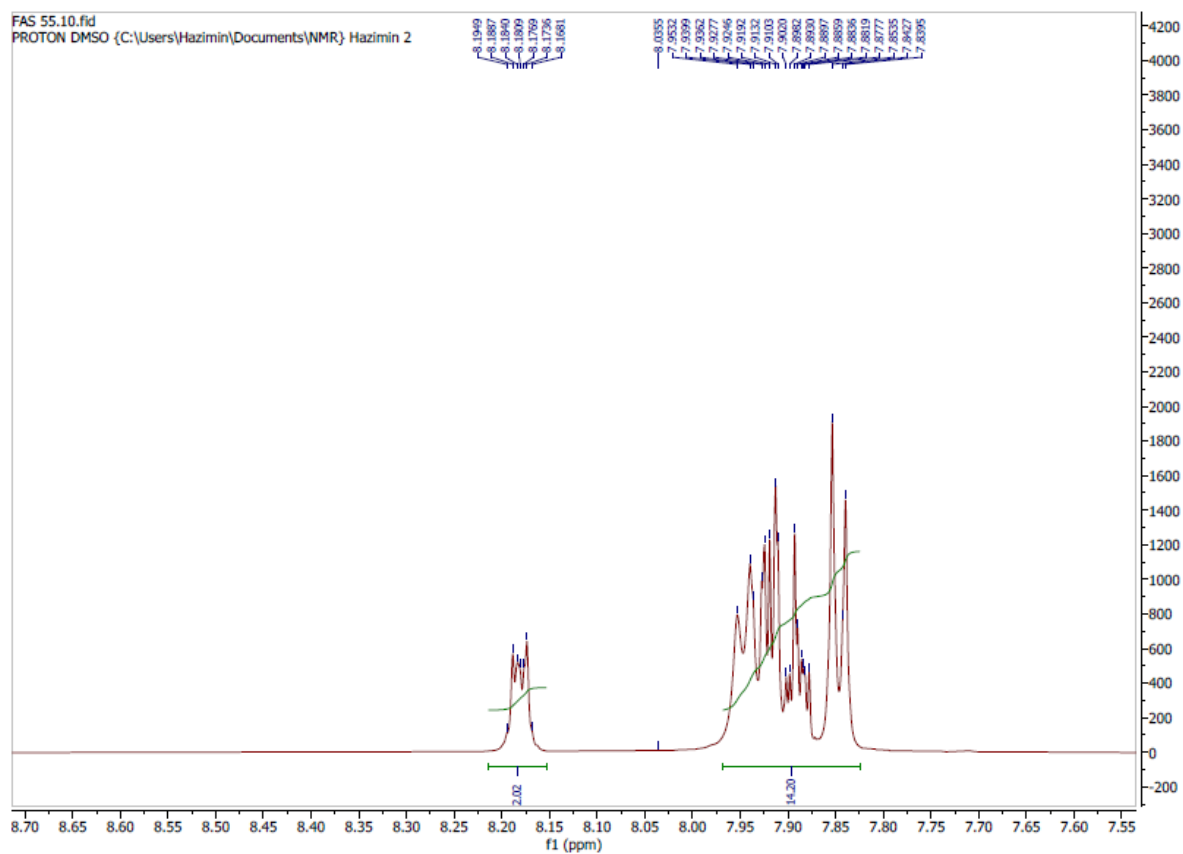
MS Spectrum of compound **12d**.



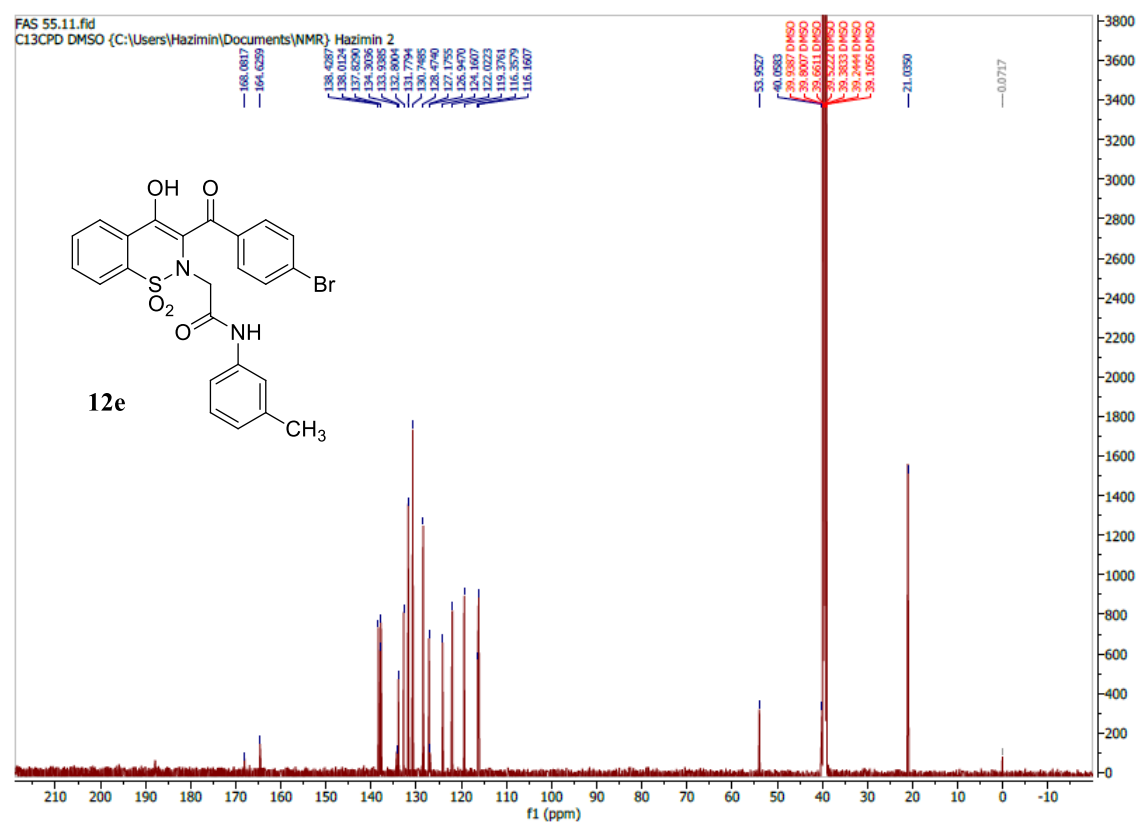
^1H NMR Spectrum of compound **12e**.



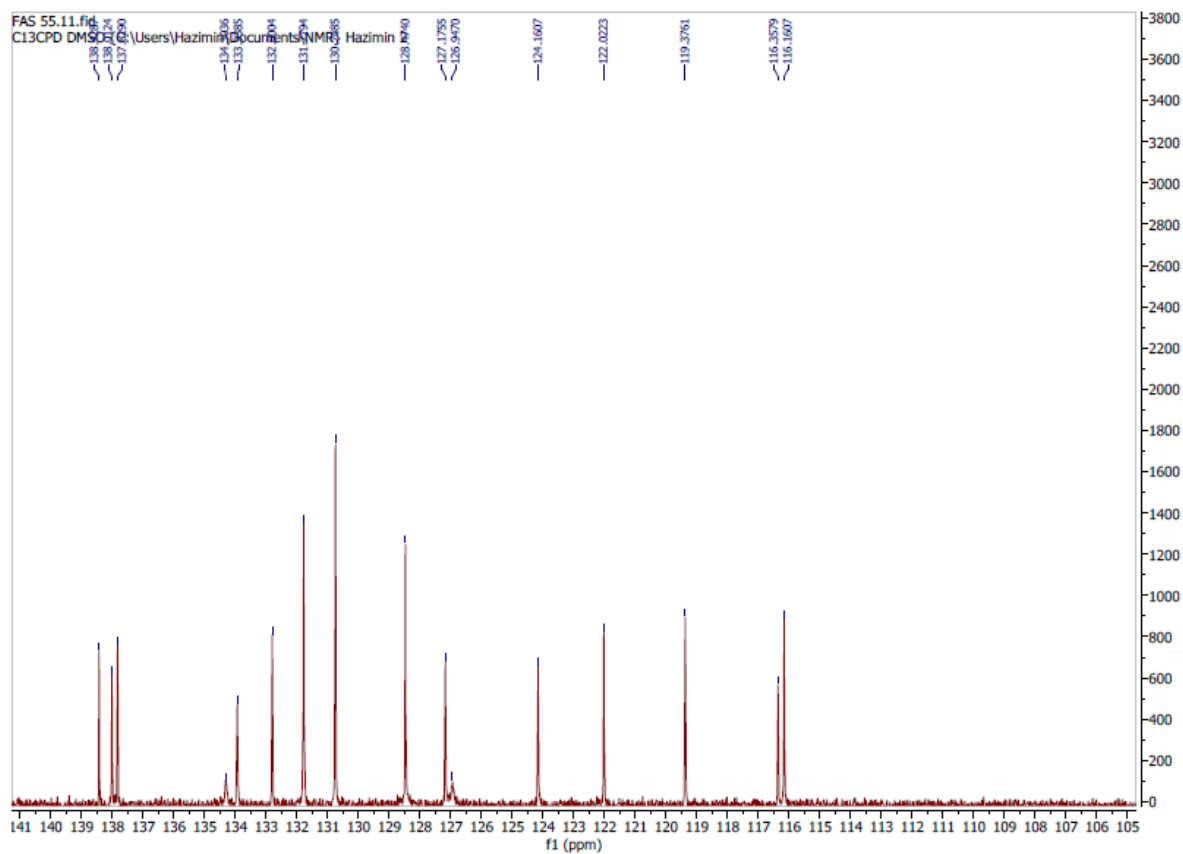
Expanded form of ^1H NMR Spectrum of compound **12e** (region 6.75-7.10 ppm).



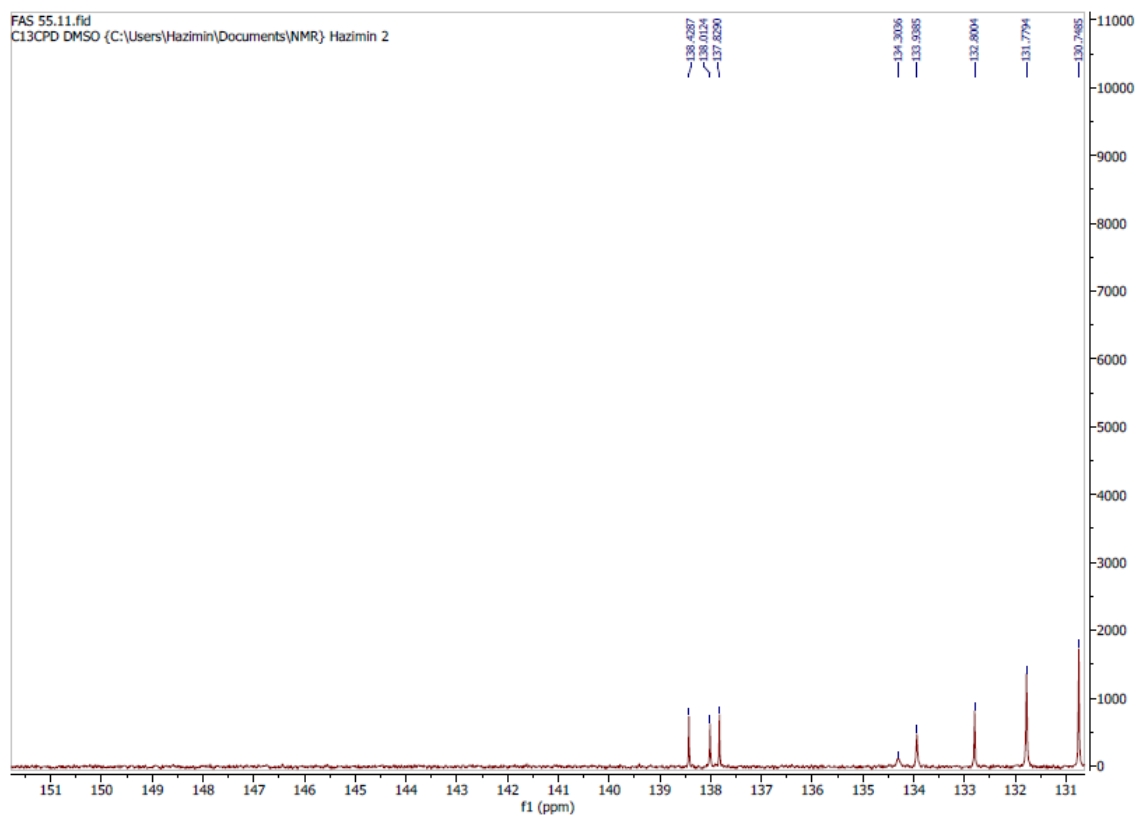
Expanded form of ^1H NMR Spectrum of compound **12e** (region 7.80-8.25 ppm).



^{13}C NMR Spectrum of compound **12e**.

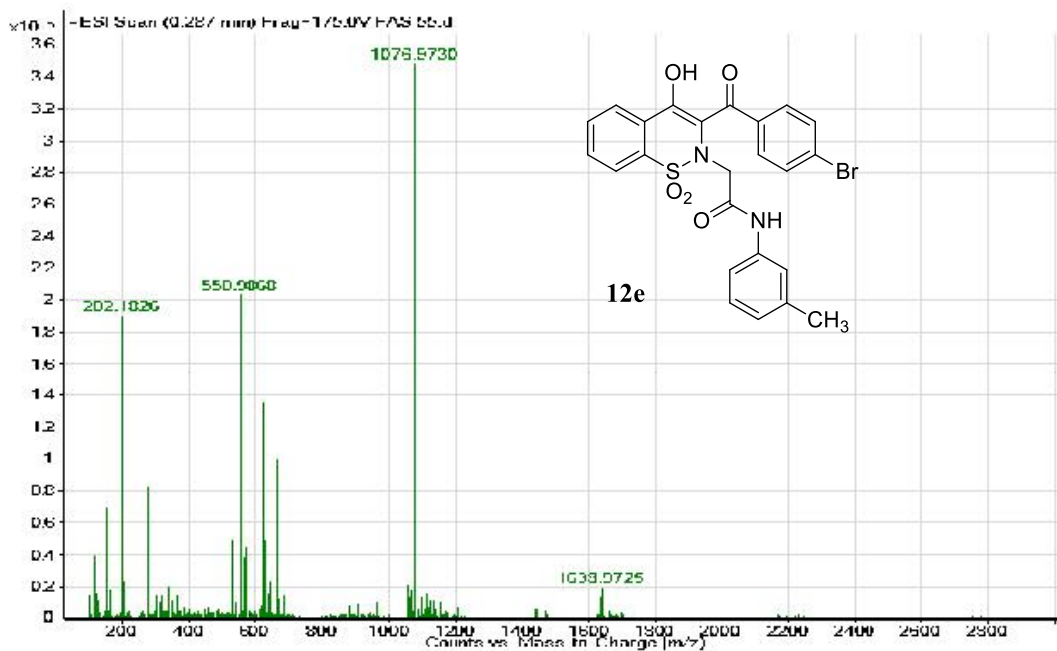


Expanded form of ^{13}C NMR Spectrum of compound **12e** (region 116-139 ppm).

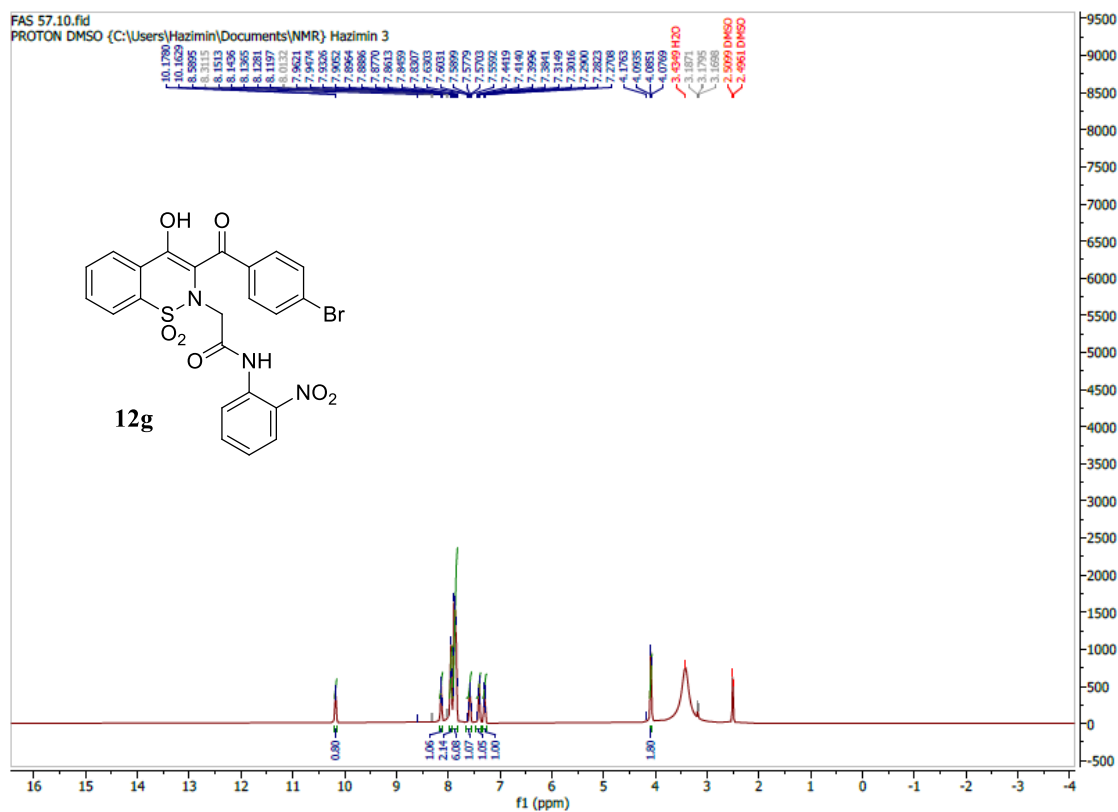


Expanded form of ^{13}C NMR Spectrum of compound **12e** (region 130-139 ppm).

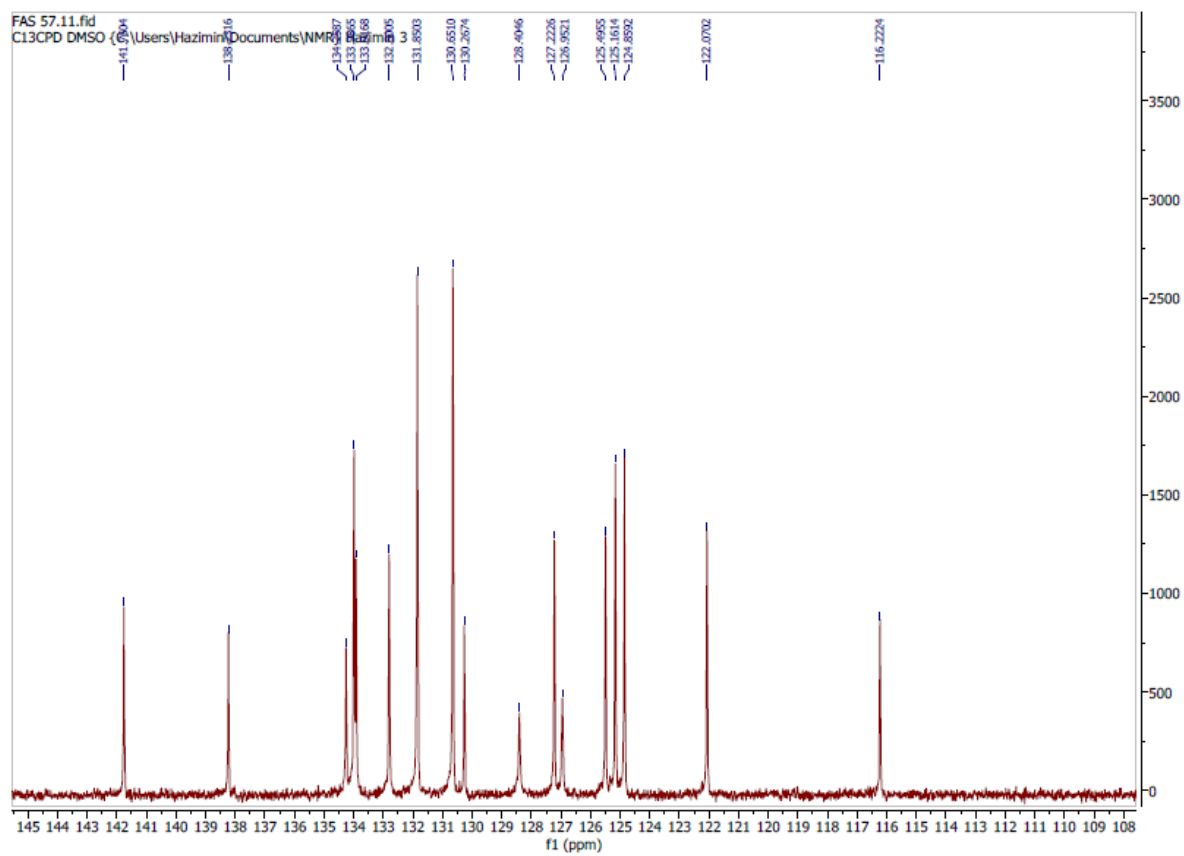
SampleName	FAS 55	Position	P1-A3	Instrument Name	Instrument 1	User Name	DR SADI
Inj Vol	5	InjPosition		SampleType	Sample	IRM CalibrationStatus	All ions Missed
Data Filename	FAS 55.d	Acq Method	DrSadiam	Comment		Acquired Time	4/27/2021 12:04:21 PM



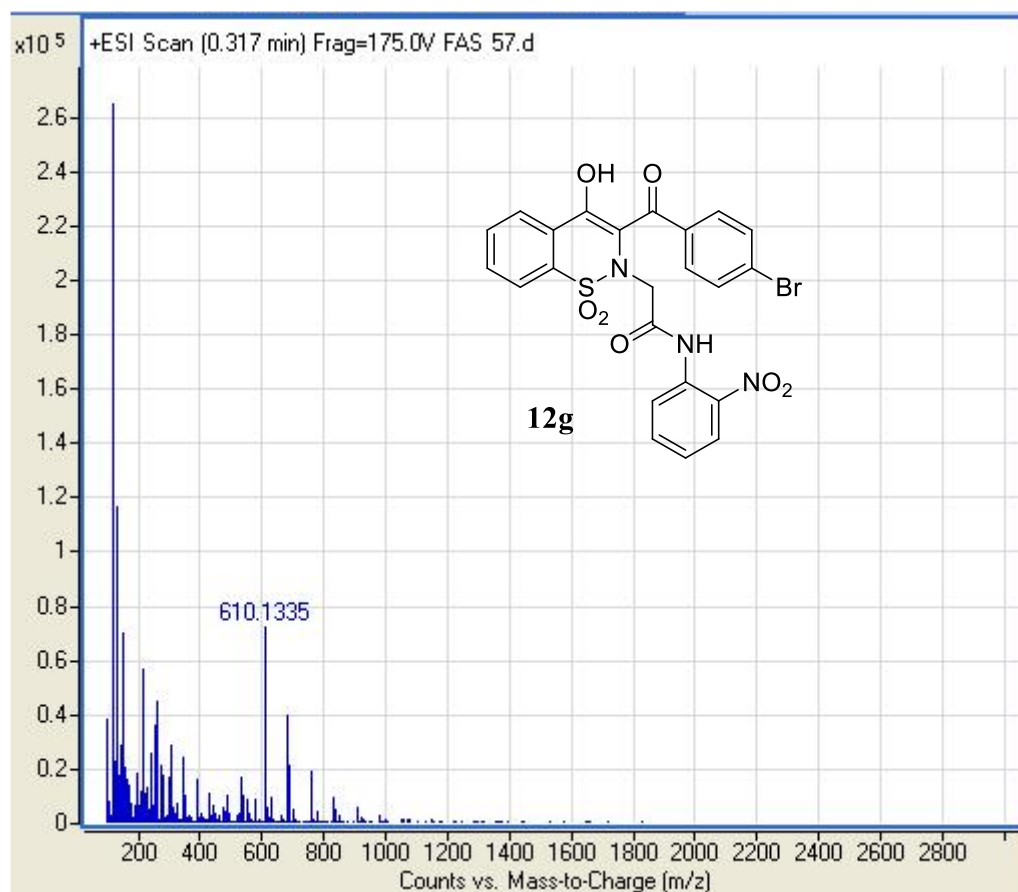
MS Spectrum of compound 12e.



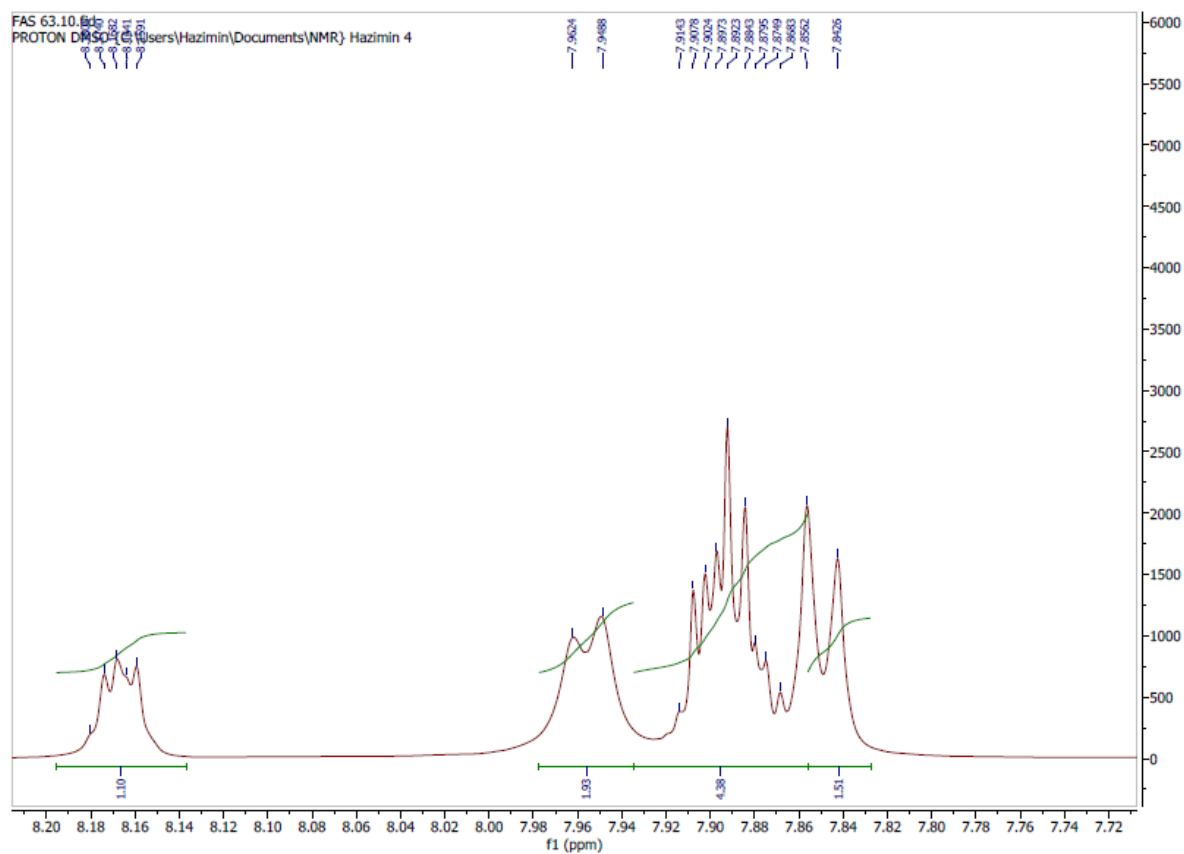
^1H NMR Spectrum of compound 12g.



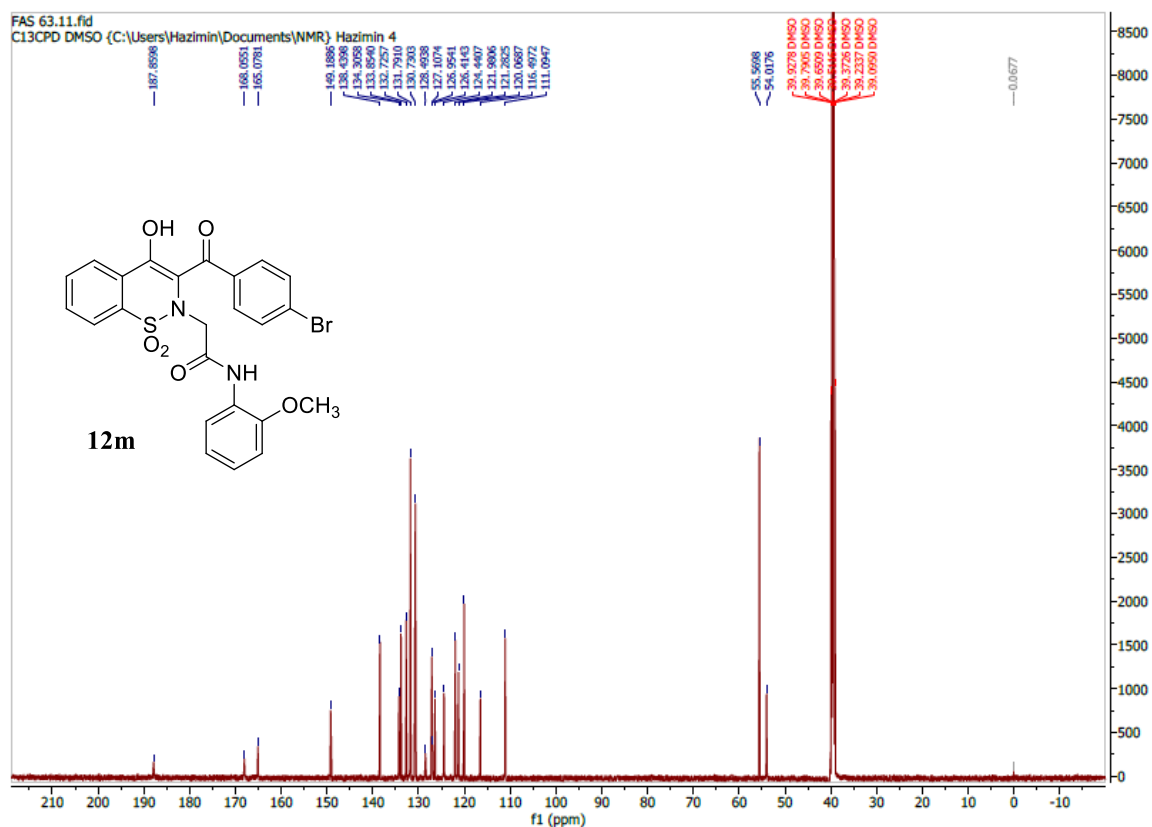
Expanded form of ^{13}C NMR Spectrum of compound **12g** (region 116-142 ppm).



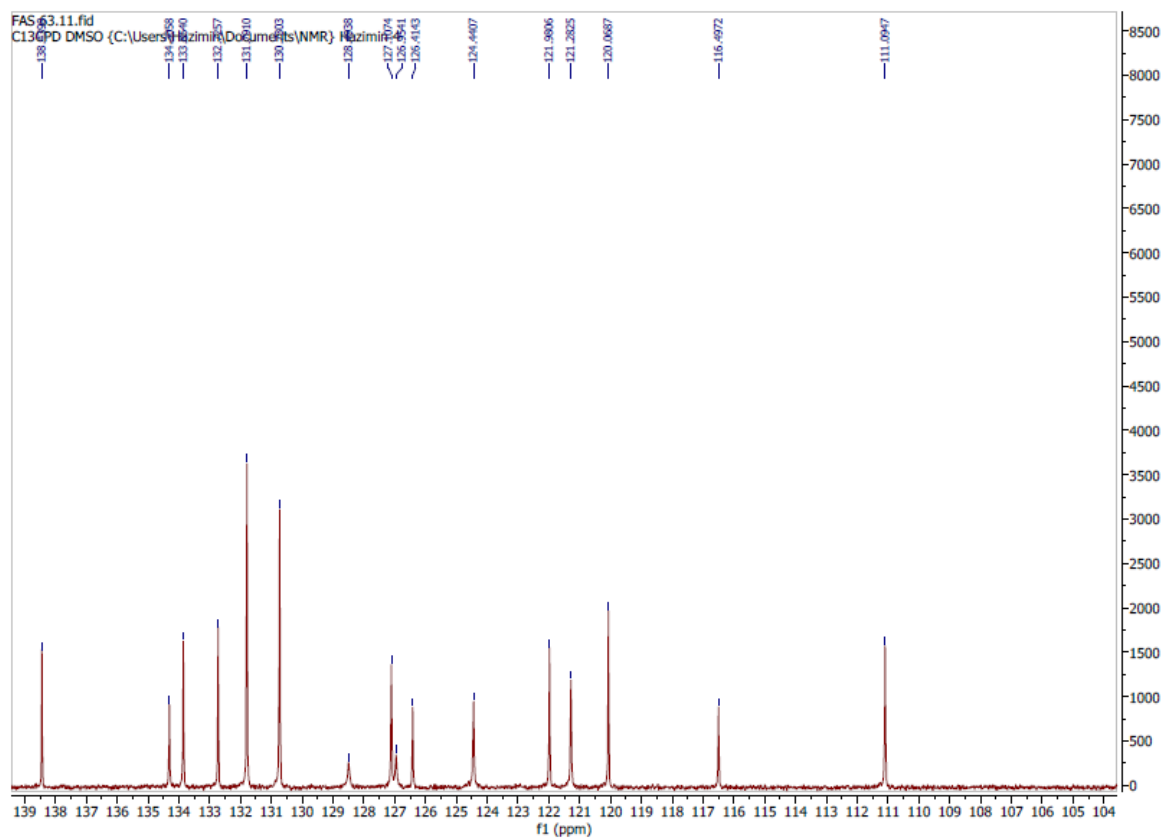
MS Spectrum of compound **12g**.



Expanded form of ^1H NMR Spectrum of compound **12m** (region 7.82-8.20 ppm).



^{13}C NMR Spectrum of compound **12m**.



Expanded form of ^{13}C NMR Spectrum of compound **12m** (region 110-139 ppm).

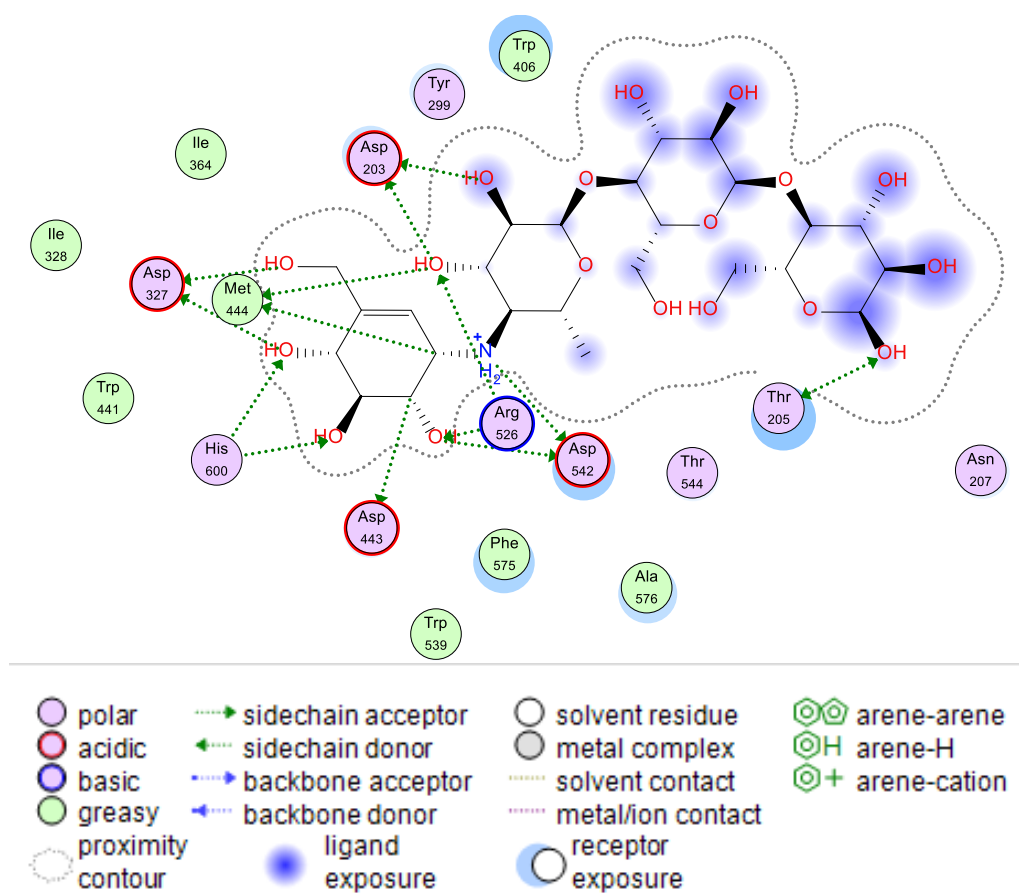


Figure S1. Selected (reference) residues. Computed acarbose interactions.

Table S1. 2D and 3D interaction modes of compounds **9a,b**; **11(a,b,d-m)** and **12(b,c,f,h-m)**. In 2D interaction modes the blue color indicates ligand exposure and green color dotted line indicates the interactions of receptor enzyme with ligands. In 3D interaction modes the colored portions show pocket selected and red portion indicates the ligand exposure points.

Comp.	2D-interaction mods	3D-maps
9a		

