

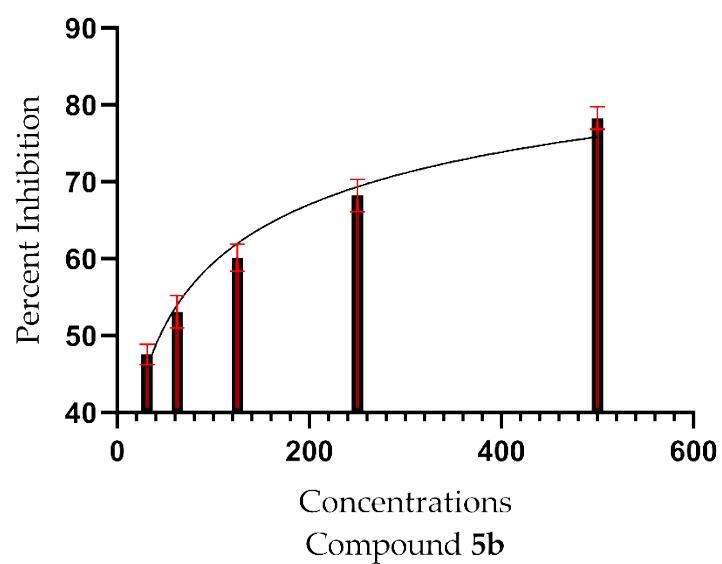
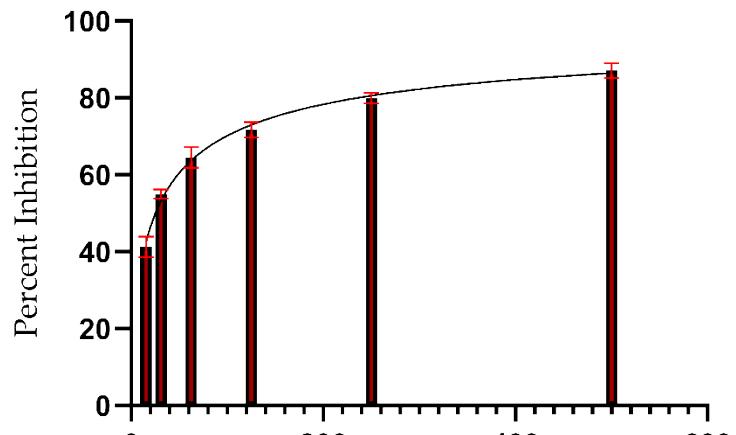
**Design, synthesis, *in vitro*, and *in silico* study of 1-benzyl-indole hybrid thiosemicarbazones as competitive tyrosinase inhibitors**

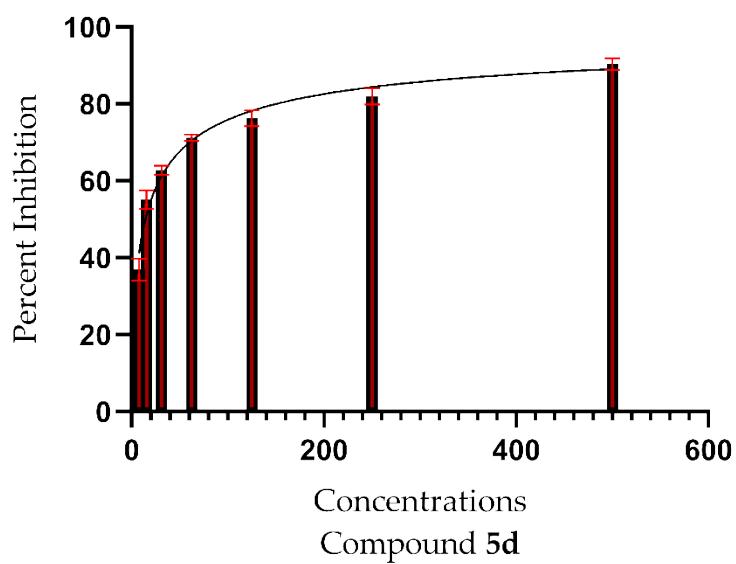
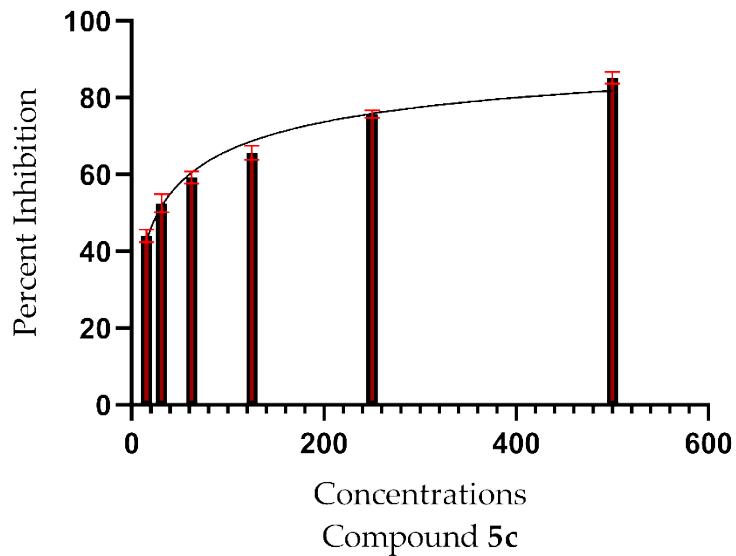
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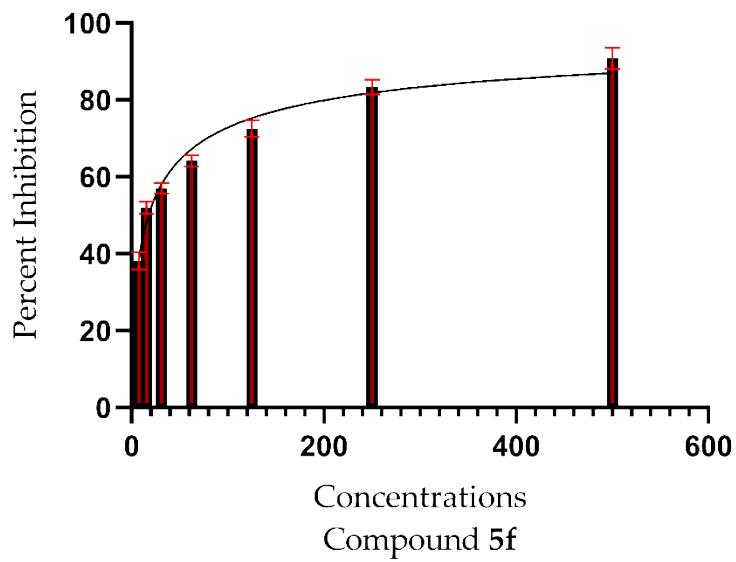
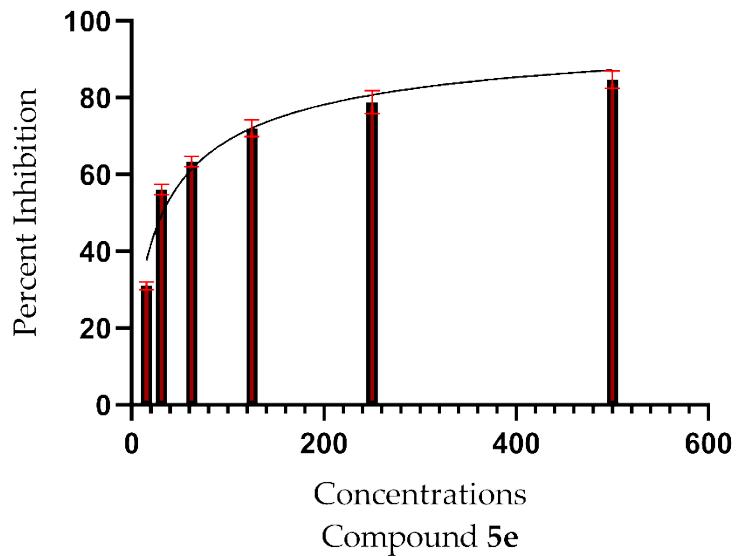
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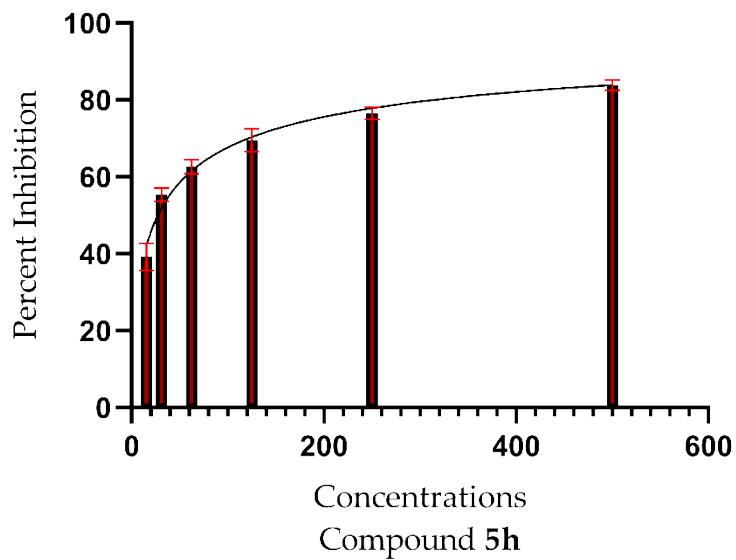
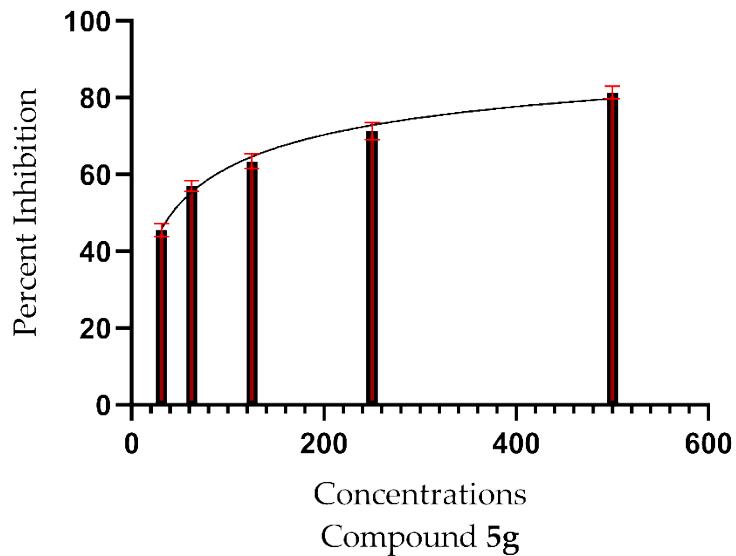
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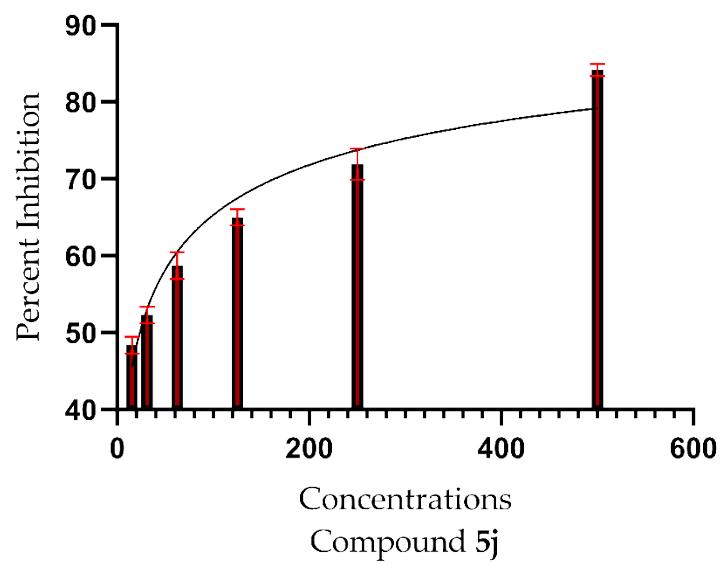
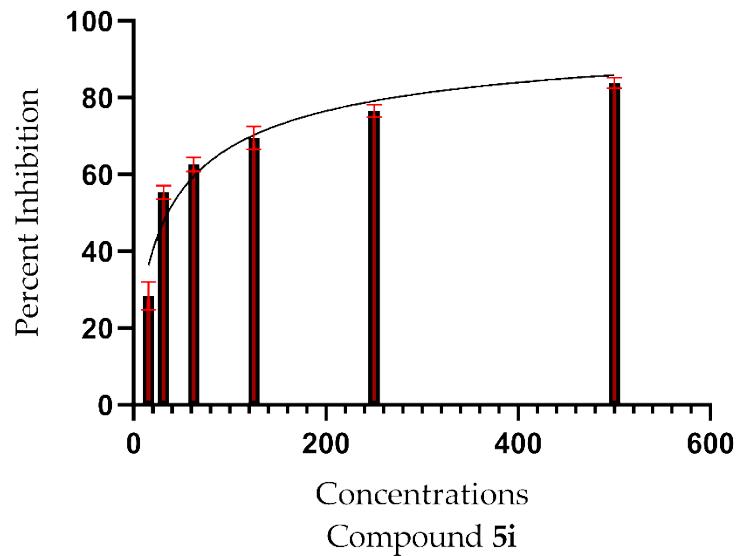
### Dose Curve response for compounds 5a-5r

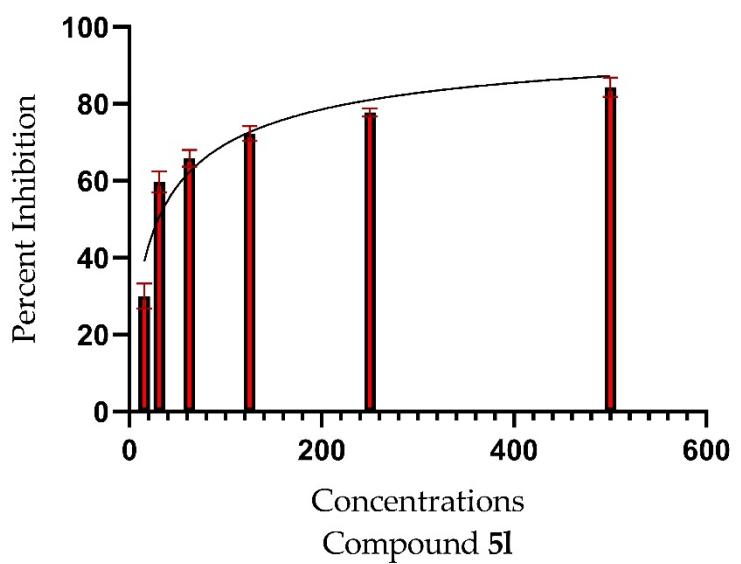
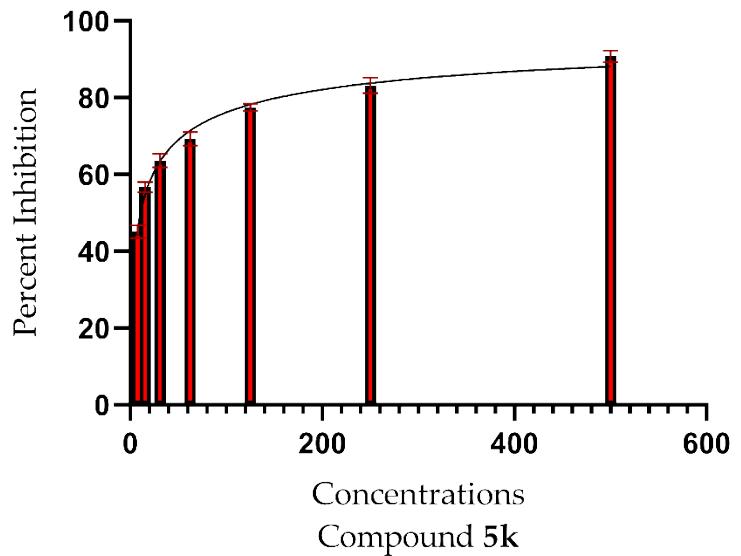


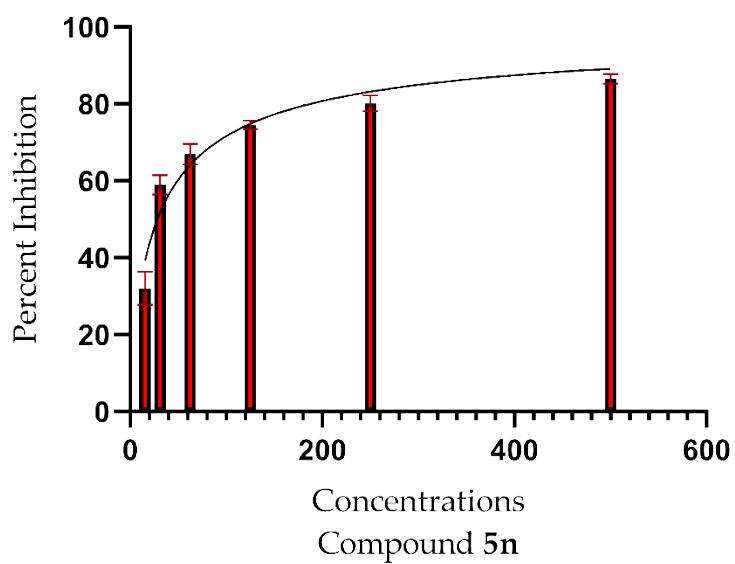
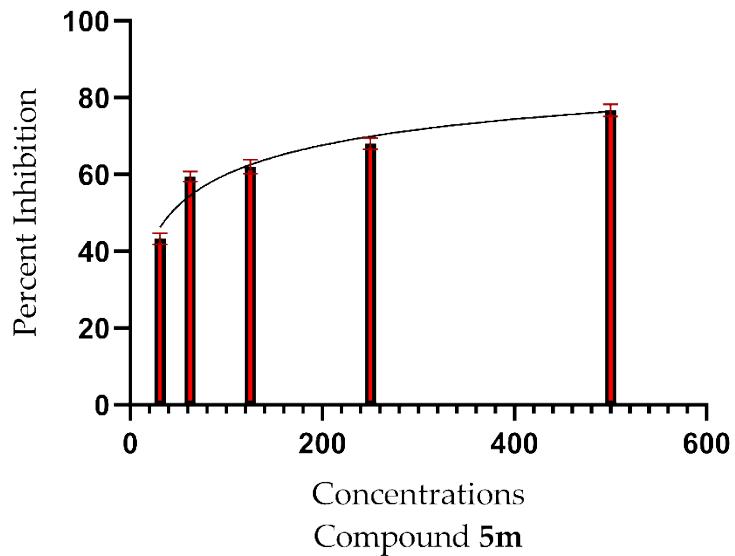


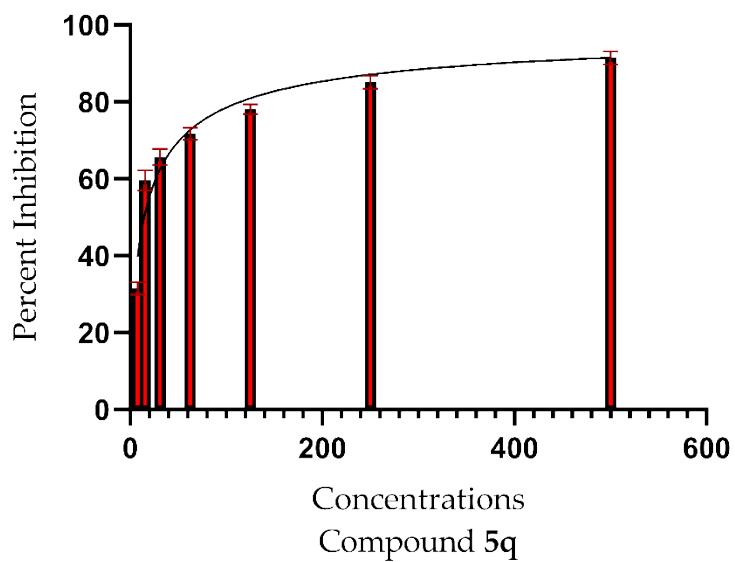
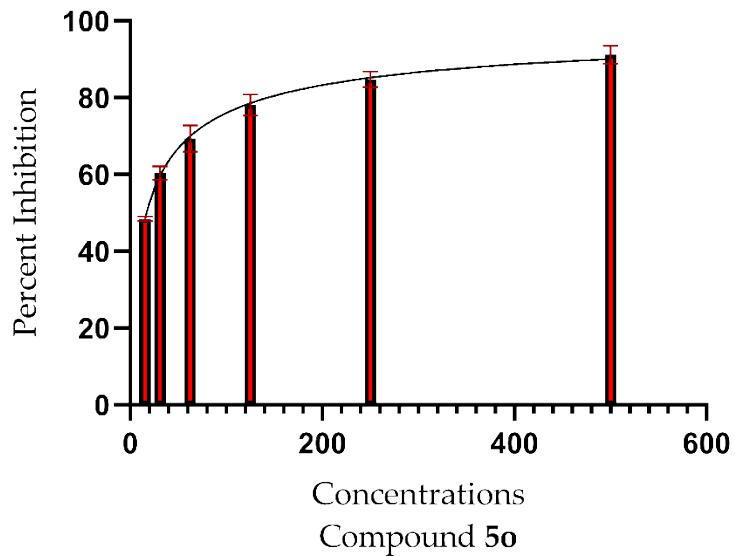


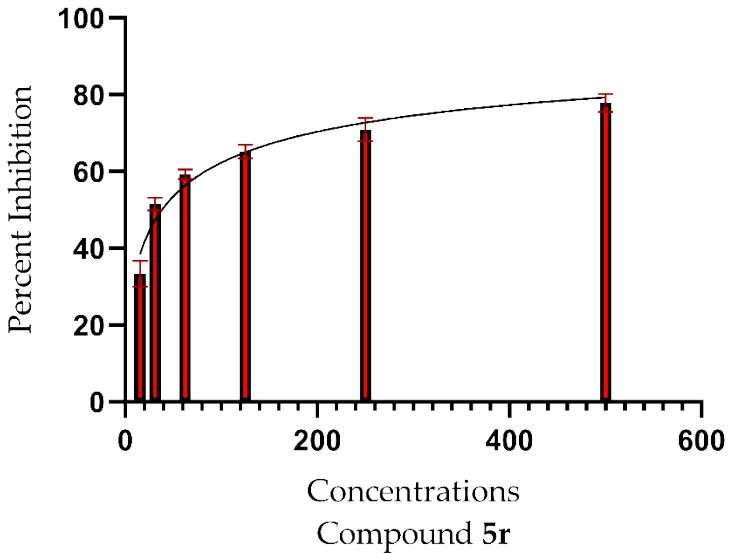












**Figure S1. Dose curve response for compounds 5a- 5r against tyrosinase.**

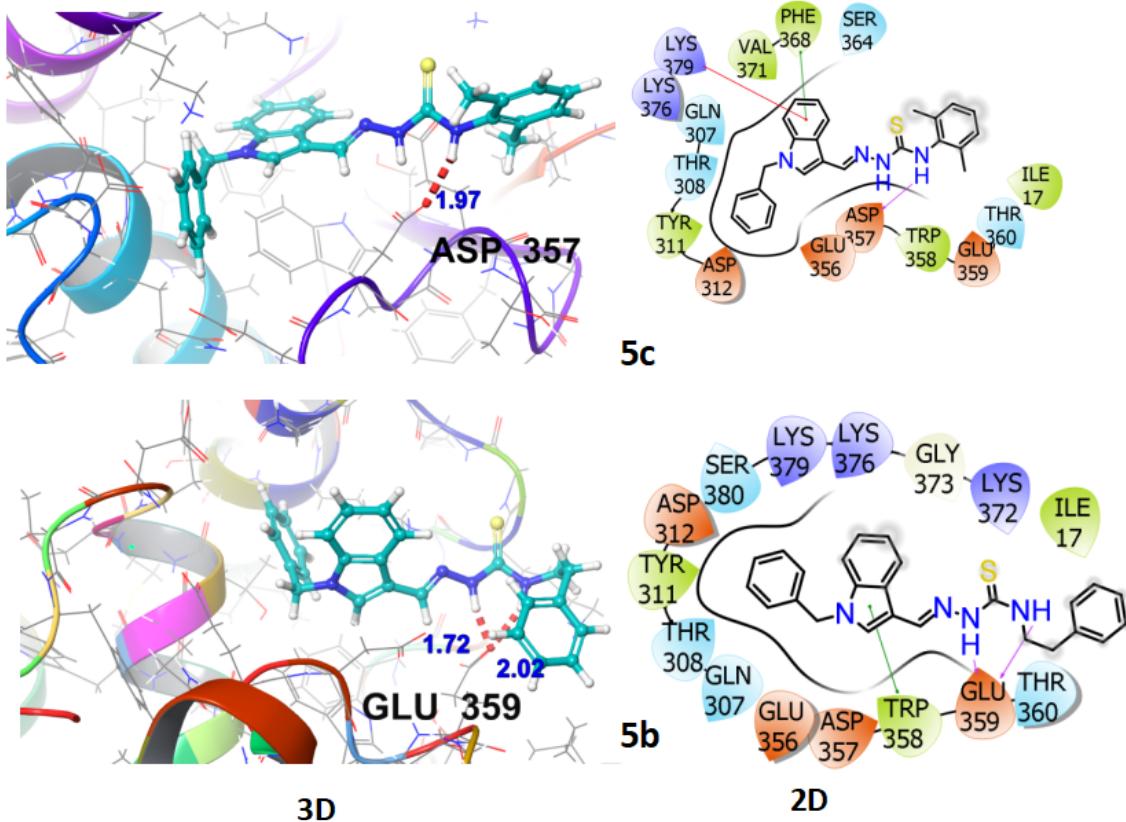
#### Glide molecular docking studies

The compounds 5c and 5b demonstrated strong binding interactions with tyrosinase target protein with gScores values even much better than the co-crystallized ligand and the kojic acid. Table S1 details the gScore, emodel, H-bonding, and hydrophobic interacting residues for the ligands 5c and 5b. Gln307, Thr308, and Thr360 are the common amino acid residue involved in polar contacts. Ile17, Tyr311, and Trp358 are showing common hydrophobic interacting residues as shown in **Figure S2**.

**Table S1. Glide Score, H-Bonding Interactions with Distances in Å, Polar, and Hydrophobic Interacting Residues for Investigated Ligands with target protein possessing tyrosinase activity (PDB ID: 2Y9W).**

Lignd	gScore (kcal/mol )	Emodel (kcal/mol)	HBI residue (distance Å)	Polar interacting amino acid residues	Hydrophobic interacting residues
5c	-5.033	-60.546	Asp357 (1.97)	Gln307, Thr308, Thr360, Ser364	Ile17, Tyr311, Trp358, Phe368, Val371
5b	-5.005	-54.341	Glu359 (1.72, 2.02)	Gln307, Thr308, Thr360, Ser380	Ile17, Tyr311, Trp358

Abbreviation: HBI, hydrogen bonding interactions.



**Figure S2. 3D and 2D representation of interaction with tyrosinase target protein (PDB ID: 2Y9W).**

Table S2. Docking Score, glide Score, and glide emodel values of all investigated ligands with target protein possessing tyrosinase activity (PDB ID: 2Y9W).

Ligand	docking score (kcal/mol)	glide gscore (kcal/mol)	glide emodel (kcal/mol)
5k	-5.157	-5.157	-63.013
5c	-5.033	-5.033	-60.546
5b	-5.005	-5.005	-54.341
5a	-4.666	-4.666	-55.237
kojic acid	-4.416	-4.549	-34.051
5p	-4.313	-4.313	-45.738
5m	-4.236	-4.236	-47.798
5f	-4.129	-4.129	-54.012
5q	-4.033	-4.033	-55.055
5d	-3.876	-3.876	-42.321
5e	-3.815	-3.815	-46.426
5i	-3.778	-3.778	-49.164

5h		-3.554	-3.554	-49.496
5o		-3.454	-3.454	-48.434
5l		-3.311	-3.311	-48.872
5n		-3.183	-3.183	-46.608
5g		-3.085	-3.085	-42.012
5r		-2.983	-2.983	-42.112
5j		-2.185	-2.185	-34.915
co-crystallized-ligand-2Y9W		-0.129	-0.129	-19.187

Table S3. The ADMET Properties of all investigated ligands.

Ligand	Canonical SMILES	Formula	MW	#Heavy atoms	#Aromatic heavy atoms	Fraction Csp3	#Rotatable bonds	#H-bond acceptors	#H-bond donors	MR	TPSA	iLOGP	XLOGP3	WLOGP	MLOGP	Silicos-IT Log P	
5a	COc1ccc(cc1)NC(=S)N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C24H22N4OS	414.52	30	21	0.08	8	2	2	127.06	82.67	3.9	4.8	4.83	3.28	5.19	
5b	S=C(Nc1ccccc1)N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C23H20N4S	384.5	28	21	0.04	7	1	2	120.5	6	73.44	3.59	4.83	4.82	3.63	5.12
5c	S=C(Nc1c(C)ccccc1C)N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C25H24N4S	412.55	30	21	0.12	7	1	2	130.5	73.44	3.95	5.56	5.44	4.04	6.18	
5d	S=C(Nc1cc(cc1)F)N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C23H19FN4S	402.49	29	21	0.04	7	2	2	120.52	73.44	3.73	4.93	5.38	4	5.54	
5e	S=C(NCc1ccc(cc1)	C24H21	432.97	30	21	0.08	8	1	2	128.84	73.44	4.2	5.4	5.19	4.04	6.16	

	Cl)N/N=C /c1cn(c2 c1cccc2) Cc1ccccc 1	CIN4 S															
<b>5f</b>	S=C(Nc1c ccc(c1Cl) Cl)N/N=C /c1cn(c2 c1cccc2) Cc1ccccc 1	C23 H18 Cl2N 4S	453.39	30	21	0.04	7	1	2	130.58	73.44	4.05	6.09	6.13	4.58	6.4	
<b>5g</b>	S=C(Nc1c cccc1)N/ N=C/c1c n(c2c1cc cc2)Cc1c cccc1	C23 H20 N4S	384.5	28	21	0.04	7	1	2	120.56	73.44	3.59	4.83	4.82	3.63	5.12	
<b>5h</b>	S=C(Nc1c cc(cc1C) C)N/N=C /c1cn(c2 c1cccc2) Cc1ccccc 1	C25 H24 N4S	412.55	30	21	0.12	7	1	2	130.5	73.44	3.82	5.56	5.44	4.04	6.18	
<b>5i</b>	S=C(NCc 1ccccc1) N/N=C/c 1cn(c2c1 cccc2)Cc 1ccccc1	C24 H22 N4S	398.52	29	21	0.08	8	1	2	123.83	73.44	3.97	4.77	4.54	3.57	5.52	
<b>5j</b>	S=C(Nc1c cc(cc1Br) N/N=C/c 1cn(c2c1 cccc2)Cc 1ccccc1	C23 H19 BrN4 S	463.39	29	21	0.04	7	1	2	128.26	73.44	4.09	5.52	5.58	4.21	5.8	
<b>5k</b>	S=C(NCc 1ccc(cc1) C)N/N=C /c1cn(c2 c1cccc2) Cc1ccccc 1	C25 H24 N4S	412.55	30	21	0.12	8	1	2	128.8	73.44	4.12	5.13	4.84	3.78	6.05	
<b>5l</b>	COc1cccc (c1)NC(=S)N/N=C /c1cn(c2 c1cccc2) Cc1ccccc 1	C24 H22 N4O S	414.52	30	21	0.08	8	2	2	127.06	82.67	3.94	4.8	4.83	3.28	5.19	
<b>5</b>	COc1cccc	C25	444.55	32	21	0.12	9	3	2	133.55	91.9	4.02	4.78	4.84	2.94	5.26	

<b>m</b>	(c1NC(=S)N/N=C/c1cn(c2c1cccc2)Cc1cccc1)OC	H24 N4O 2S															
<b>5n</b>	S=C(Nc1cc(cc1)C)N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C24 H22 N4S	398.52	29	21	0.08	7	1	2	125.53	73.44	3.94	5.2	5.13	3.84	5.65	
<b>5o</b>	S=C(Nc1cccc(c1)[N+](=O)[O-])N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C23 H19 N5O 2S	429.49	31	21	0.04	8	3	2	129.39	119.2	6	3.3	4.66	4.73	2.67	2.96
<b>5p</b>	CNC(=S)N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C18 H18 N4S	322.43	23	15	0.11	6	1	2	99.35	73.44	2.91	3.27	3.12	2.46	4.04	
<b>5q</b>	S=C(Nc1cccc(c1)[N+](=O)[O-])N/N=C/c1cn(c2c1cccc2)Cc1cccc1	C23 H19 N5O 2S	429.49	31	21	0.04	8	3	2	129.39	119.2	6	3.27	4.66	4.73	2.67	2.96
<b>5r</b>	S=C(Nc1cccc(c1)c2c1cccc2)Cc1cccc1	C27 H22 N4S	434.56	32	25	0.04	7	1	2	138.07	73.44	4.08	6.08	5.97	4.28	6.15	
<b>Kojic acid</b>	OCC1OCC(C(=O)C1)O	C6H 6O4	142.11	10	6	0.17	1	4	2	33.13	70.67	1.12	-0.64	-0.31	1.69	0.74	
Ligand	Consensus Log P	ESOL Log S	ESOL Solubility	ESOL Solubility (mol/l)	ESOL Class	Ali Log S	Ali Solubility (mg/ml)	Ali Solubility	Ali Class	Silicos-IT LogSw	Silicos-IT Solubility (mg/ml)	Silicos-IT Solubility (mol/l)	Silicos-IT class	GI absorption	BBB permeant	Pgp substrate	
<b>5a</b>	4.4 42	- 5. 1.56 E-03 3.77E-06	Mode rately soluble	- 6. 2.24E-04	Poor ly solu ble	5.39 E-07	-8.28	2.17E-06	5.22E-09	Poor ly solu ble	High	No	No				

5b	4.4	- 5. 36	1.68 E-03	4.37E- 06	Moderately soluble	- 6. 11	3.02E- 04	7.84 E-07	Poorly soluble	- 8.18	2.54E- 06	6.61E- 09	Poorly soluble	High	No	No
5c	5.03	- 5. 96	4.56 E-04	1.11E-06	Moderately soluble	- 6. 86	5.65E-05	1.37 E-07	Poorly soluble	-8.93	4.84E-07	1.17E- 09	Poorly soluble	High	No	Yes
5d	4.72	- 5. 52	1.23 E-03	3.05E-06	Moderately soluble	- 6. 21	2.49E-04	6.18 E-07	Poorly soluble	-8.44	1.45E-06	3.60E- 09	Poorly soluble	High	No	No
5e	5	- 5. 92	5.25 E-04	1.21E-06	Moderately soluble	- 6. 7	8.70E-05	2.01 E-07	Poorly soluble	-9.16	3.01E-07	6.95E- 10	Poorly soluble	High	No	Yes
5f	5.45	- 6. 54	1.30 E-04	2.86E-07	Poorly soluble	- 7. 41	1.75E-05	3.86 E-08	Poorly soluble	-9.35	2.03E-07	4.48E- 10	Poorly soluble	High	No	No
5g	4.4	- 5. 36	1.68 E-03	4.37E-06	Moderately soluble	- 6. 11	3.02E-04	7.84 E-07	Poorly soluble	-8.18	2.54E-06	6.61E- 09	Poorly soluble	High	No	No
5h	5.01	- 5. 96	4.56 E-04	1.11E-06	Moderately soluble	- 6. 86	5.65E-05	1.37 E-07	Poorly soluble	-8.93	4.84E-07	1.17E- 09	Poorly soluble	High	No	Yes
5i	4.47	- 5. 32	1.89 E-03	4.74E-06	Moderately soluble	- 6. 04	3.61E-04	9.05 E-07	Poorly soluble	-8.57	1.07E-06	2.67E- 09	Poorly soluble	High	No	Yes
5j	5.04	- 6. 26	2.52 E-04	5.44E-07	Poorly soluble	- 6. 82	6.99E-05	1.51 E-07	Poorly soluble	-8.96	5.09E-07	1.10E- 09	Poorly soluble	High	No	No
5k	4.78	- 5. 62	9.90 E-04	2.40E-06	Moderately soluble	- 6. 42	1.58E-04	3.83 E-07	Poorly soluble	-8.95	4.65E-07	1.13E- 09	Poorly soluble	High	No	Yes
5l	4.41	- 5. 42	1.56 E-03	3.77E-06	Moderately soluble	- 6. 27	2.24E-04	5.39 E-07	Poorly soluble	-8.28	2.17E-06	5.22E- 09	Poorly soluble	High	No	No
5m	4.37	- 5. 5	1.41 E-03	3.17E-06	Moderately soluble	- 6. 44	1.61E-04	3.62 E-07	Poorly soluble	-8.38	1.85E-06	4.16E- 09	Poorly soluble	High	No	No
5n	4.75	-	8.70	2.18E-06	Mod-	-	1.29E-04	3.24	Poor	-8.56	1.11E-06	2.78E-	Poor	High	No	No

		5.66	E-04		rately soluble	6.49		E-07	ly soluble			09	ly soluble			
5o	3.66	-5.41	1.66E-03	3.87E-06	Moderately soluble	-6.89	5.52E-05	1.28E-07	Poorly soluble			3.02E-08	Poorly soluble		Low	No
5p	3.16	-3.99	3.33E-02	1.03E-04	Soluble	4.49	1.05E-02	3.26E-05	Moderately soluble	-6.09	2.60E-04	8.07E-07	Poorly soluble		High	Yes
5q	3.66	-5.41	1.66E-03	3.87E-06	Moderately soluble	-6.89	5.52E-05	1.28E-07	Poorly soluble	-7.52	1.30E-05	3.02E-08	Poorly soluble		Low	No
5r	5.31	-6.48	1.44E-04	3.31E-07	Poorly soluble	-7.4	1.72E-05	3.96E-08	Poorly soluble	-9.81	6.71E-08	1.55E-10	Poorly soluble		High	No
Kojic acid	-0.16	-0.7	2.86E+01	2.01E-01	Very soluble	-0.37	6.05E+01	4.25E-01	Very soluble	-1.17	9.72E+00	6.84E-02	Soluble		High	No
Ligand	CYP1A2 inhibitor	CYP2C19 inhibitor	CYP2C9 inhibitor	CYP2D6 inhibitor	CYP3A4 inhibitor	log K <sub>p</sub> (cm/s)	Lipinski #violations	Ghose #violations	Veber #violations	Egan #violations	Muegge #violations	Bioavailability Score	PAINS #alerts	Brenk #alerts	Leadlikeness #violations	Synthetic Accessibility
5a	Yes	Yes	Yes	Yes	Yes	-5.42	0	0	0	0	0	0.55	1	2	3	3.2
5b	Yes	Yes	Yes	Yes	Yes	-5.22	0	0	0	0	0	0.55	1	2	2	3.14
5c	Yes	Yes	Yes	Yes	Yes	-4.87	0	1	0	0	1	0.55	1	2	2	3.38
5d	Yes	Yes	Yes	Yes	Yes	-5.25	0	0	0	0	0	0.55	1	2	2	3.12
5e	Yes	Yes	Yes	Yes	Yes	-5.11	0	0	0	0	1	0.55	0	2	3	3.2
5f	No	Yes	Yes	No	Yes	-4.74	1	2	0	1	1	0.55	1	2	2	3.26
5g	Yes	Yes	Yes	Yes	Yes	-5.22	0	0	0	0	0	0.55	1	2	2	3.14
5h	Yes	Yes	Yes	Yes	Yes	-4.87	0	1	0	0	1	0.55	1	2	2	3.39
5i	Yes	Yes	Yes	Yes	Yes	-5.34	0	0	0	0	0	0.55	0	2	3	3.19
5j	Yes	Yes	Yes	Yes	Yes	-5.21	1	0	0	0	1	0.55	1	2	2	3.2
5k	Yes	Yes	Yes	Yes	Yes	-5.17	0	0	0	0	1	0.55	0	2	3	3.3
5l	Yes	Yes	Yes	Yes	Yes	-5.42	0	0	0	0	0	0.55	1	2	3	3.29
5m	No	Yes	Yes	Yes	Yes	-5.62	0	1	0	0	0	0.55	1	2	3	3.51
5n	Yes	Yes	Yes	Yes	Yes	-5.04	0	0	0	0	1	0.55	1	2	2	3.26
5o	No	Yes	Yes	No	Yes	-5.61	0	0	0	0	0	0.55	1	4	3	3.49
5p	Yes	Yes	Yes	Yes	Yes	-5.95	0	0	0	0	0	0.55	0	2	0	2.75
5q	No	Yes	Yes	No	Yes	-5.61	0	0	0	0	0	0.55	1	4	3	3.3
5r	Yes	Yes	Yes	No	Yes	-4.63	1	2	0	1	1	0.55	1	2	2	3.37

Kojic acid	No	No	No	No	No	-7.62	0	3	0	0	1	0.55	0	0	1	2.53
------------	----	----	----	----	----	-------	---	---	---	---	---	------	---	---	---	------

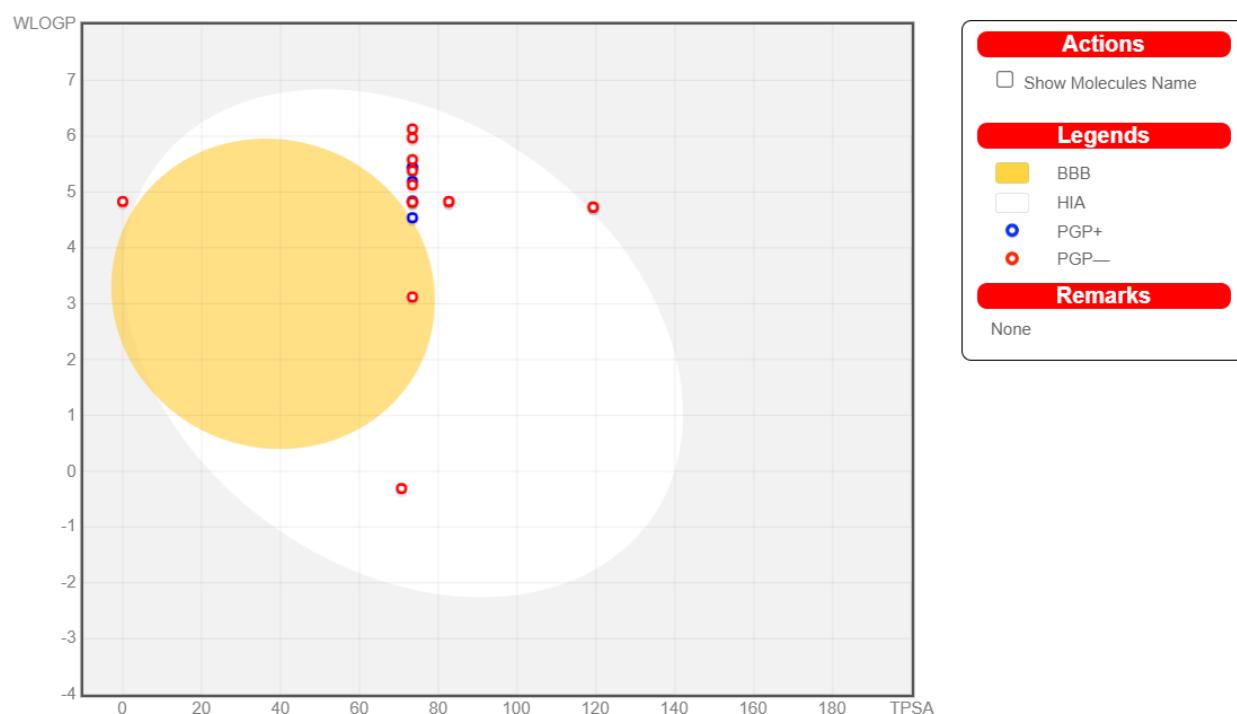
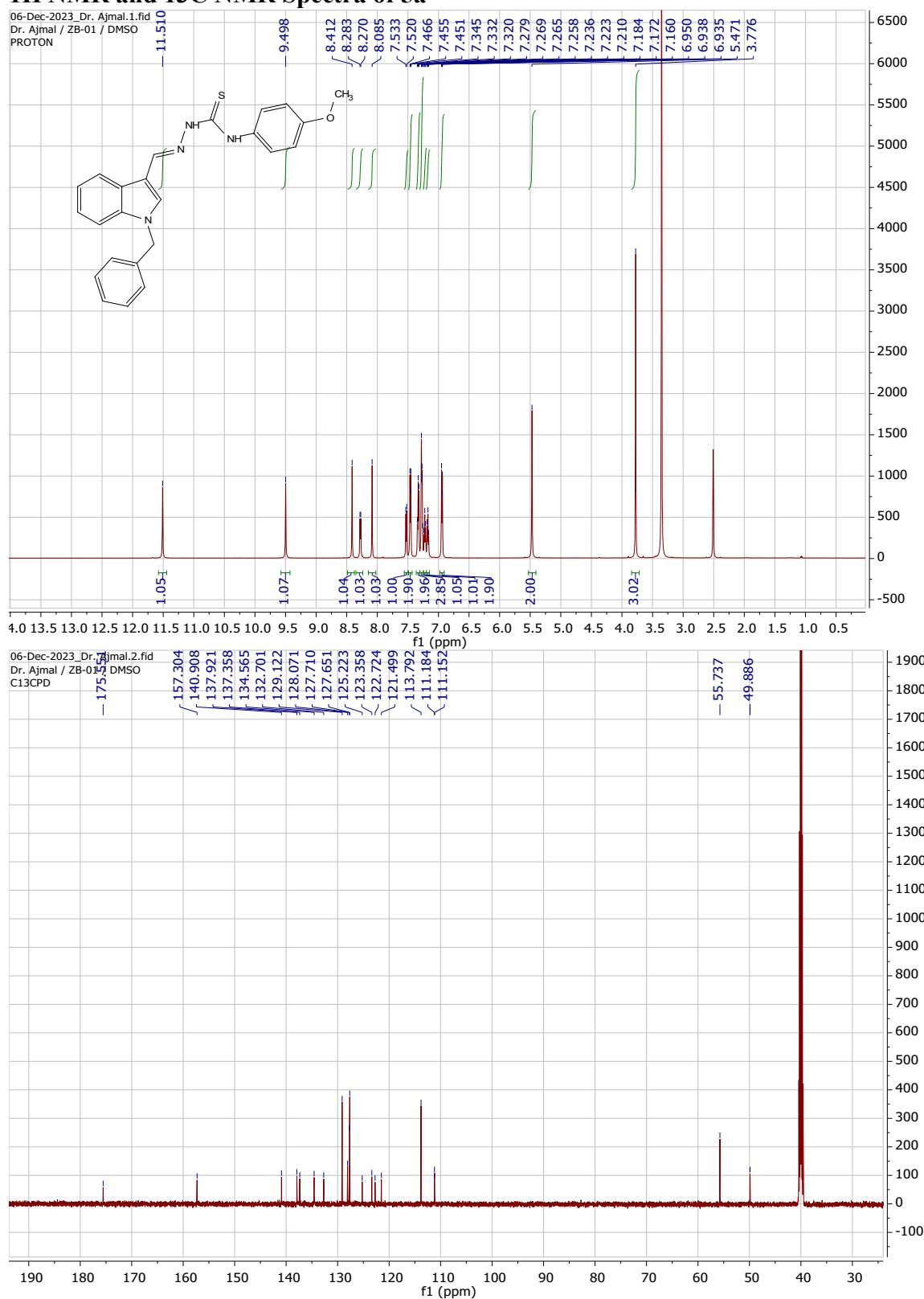
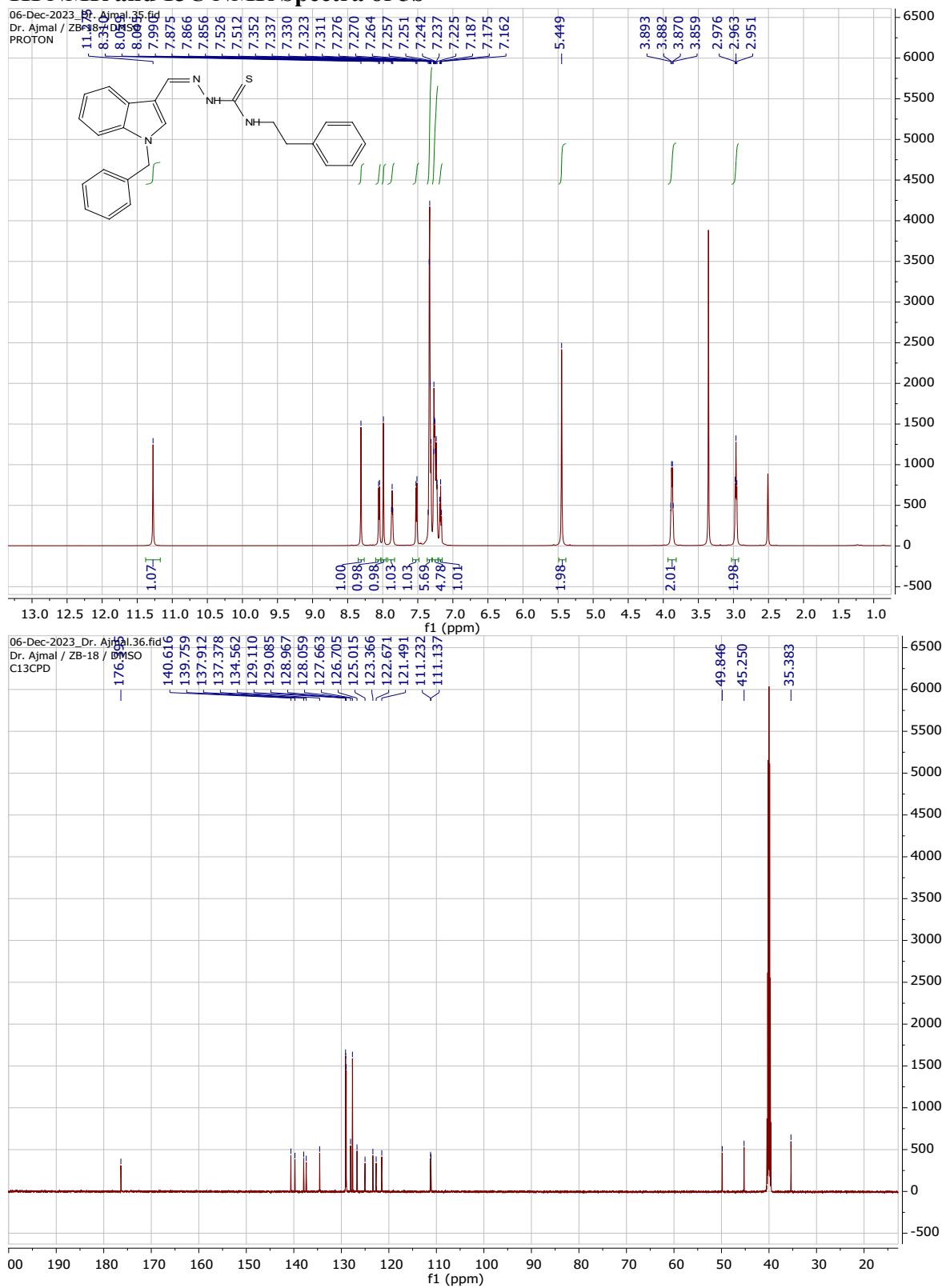


Figure S3. The boiled-egg plot (plot of WLOGP against TPSA) of all investigated compounds from SwissADME web tool.

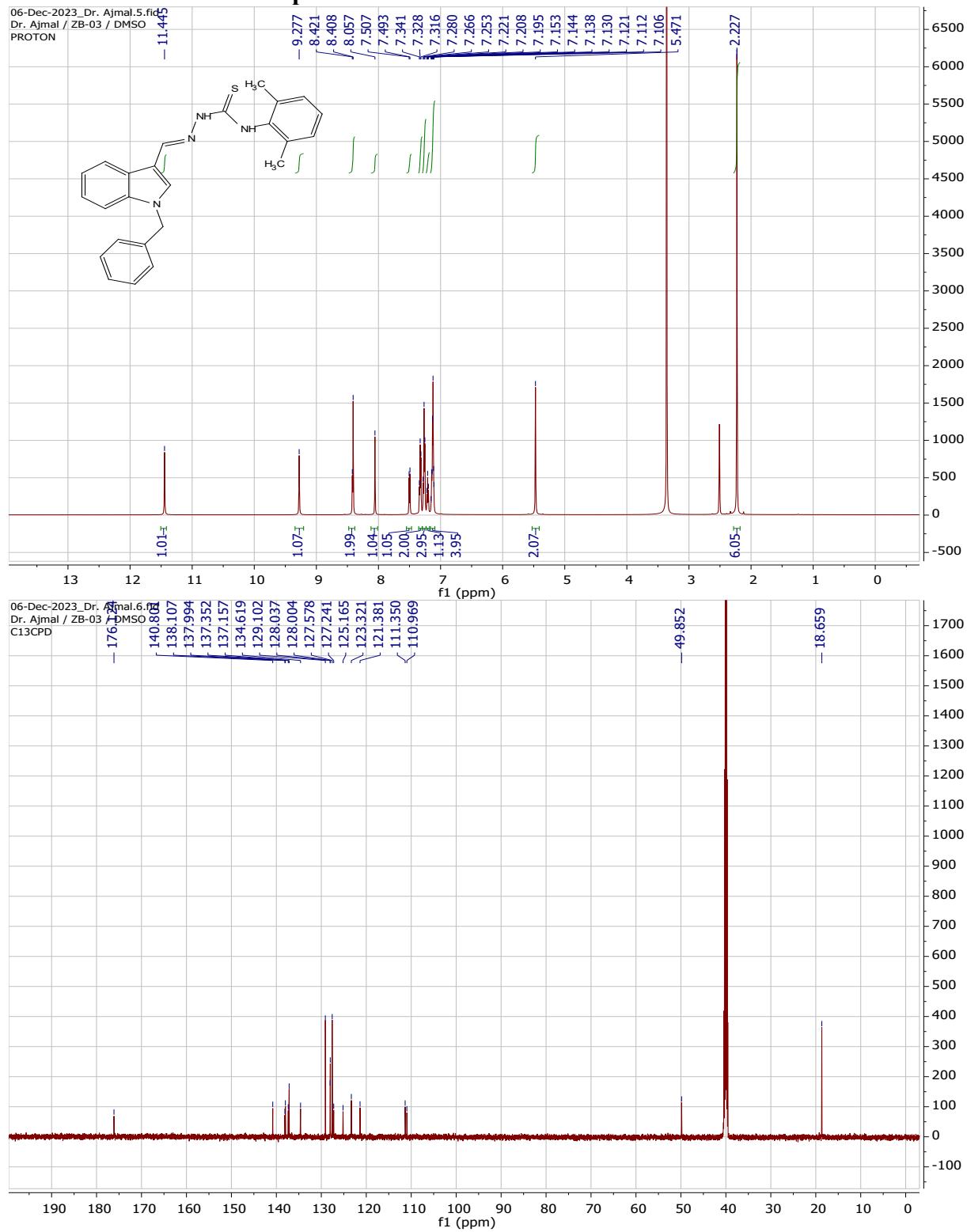
### 1H NMR and 13C NMR Spectra of 5a



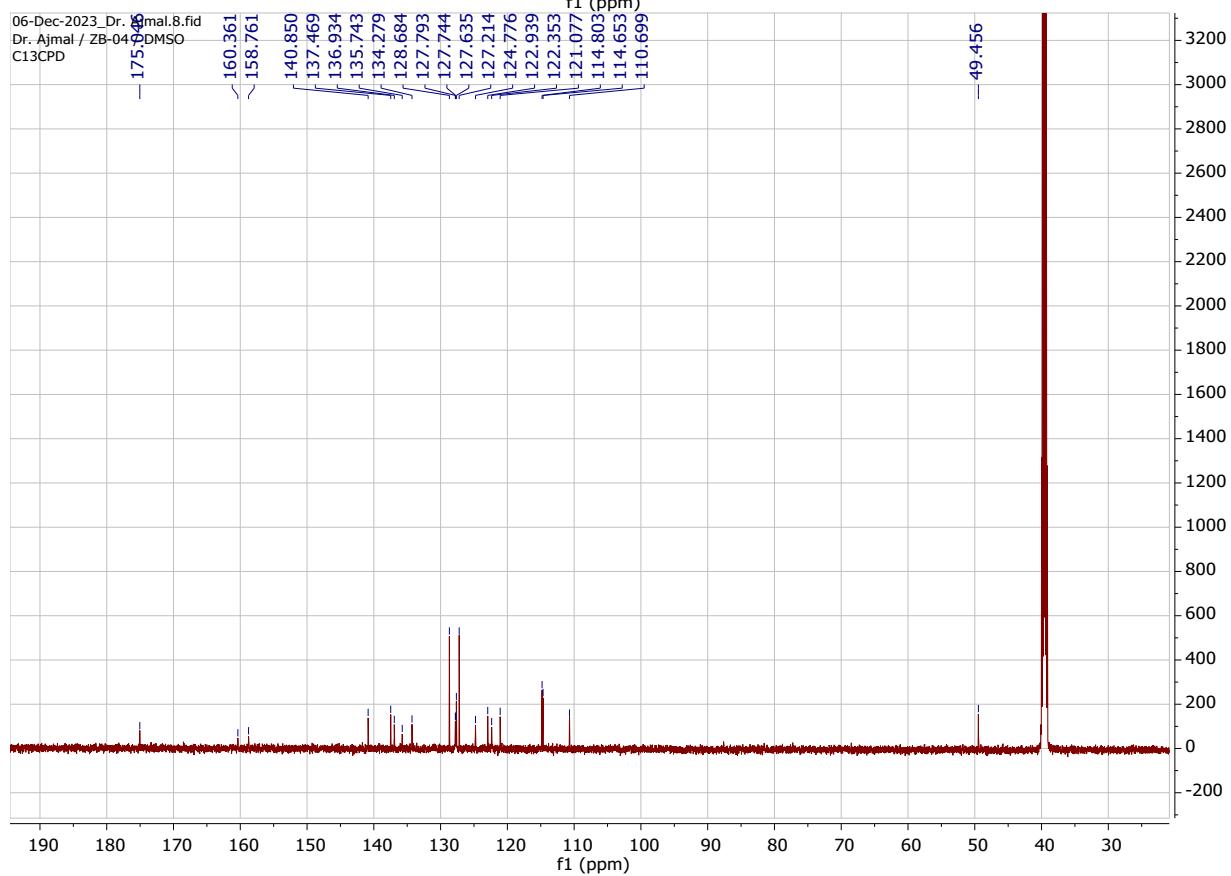
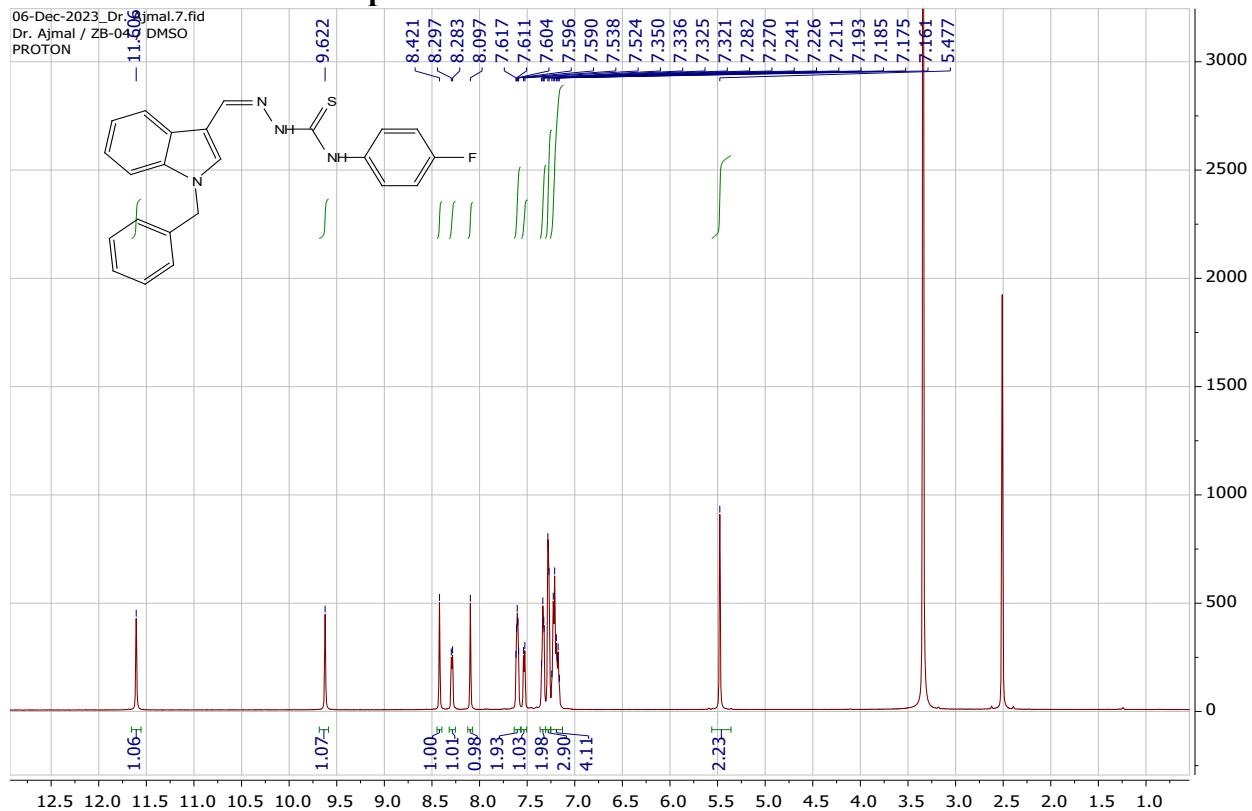
### **<sup>1</sup>H NMR and <sup>13</sup>C NMR Spectra of 5b**



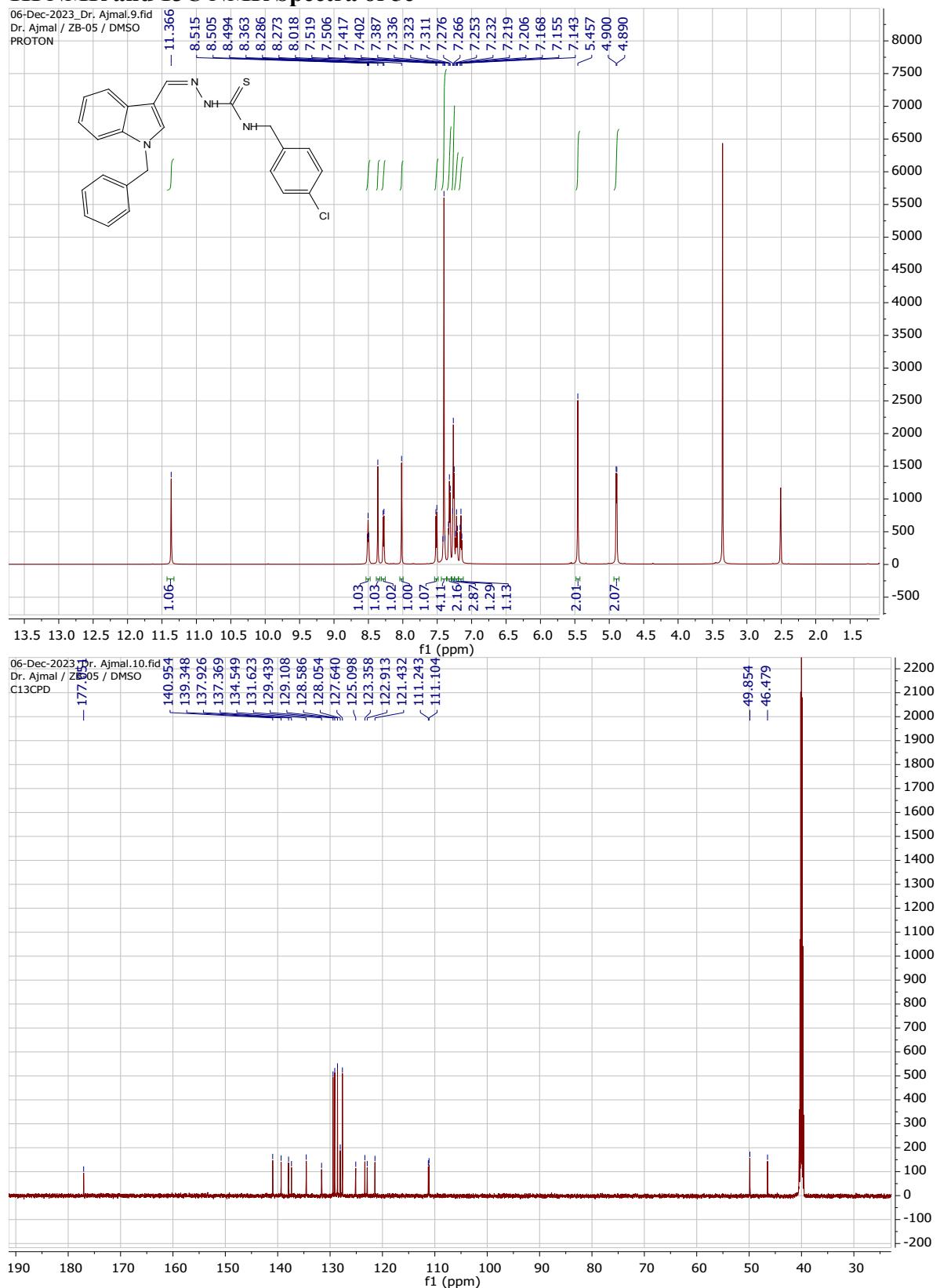
### 1H NMR and 13C NMR Spectra of 5c



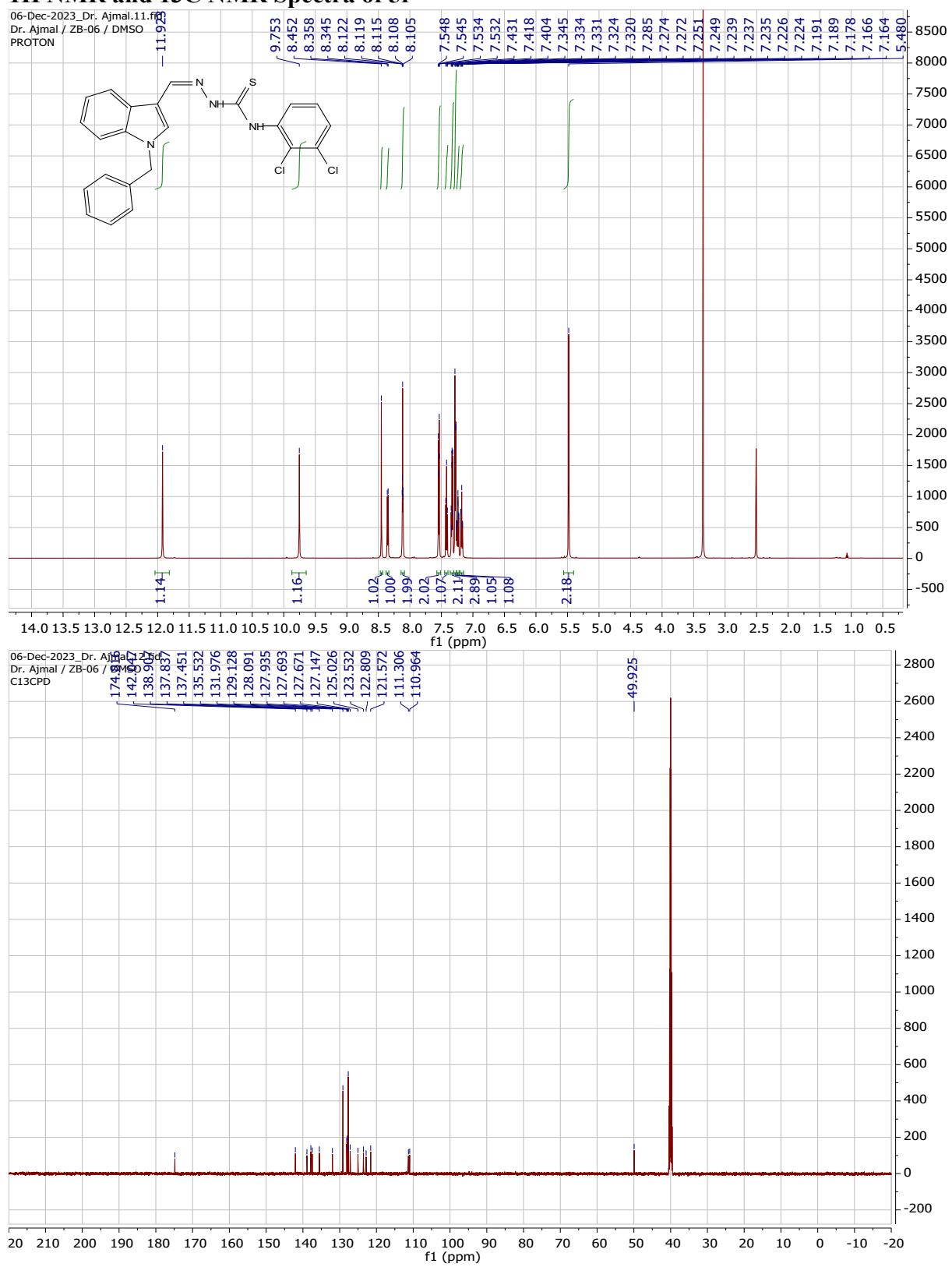
## 1H NMR and 13C NMR Spectra of 5d



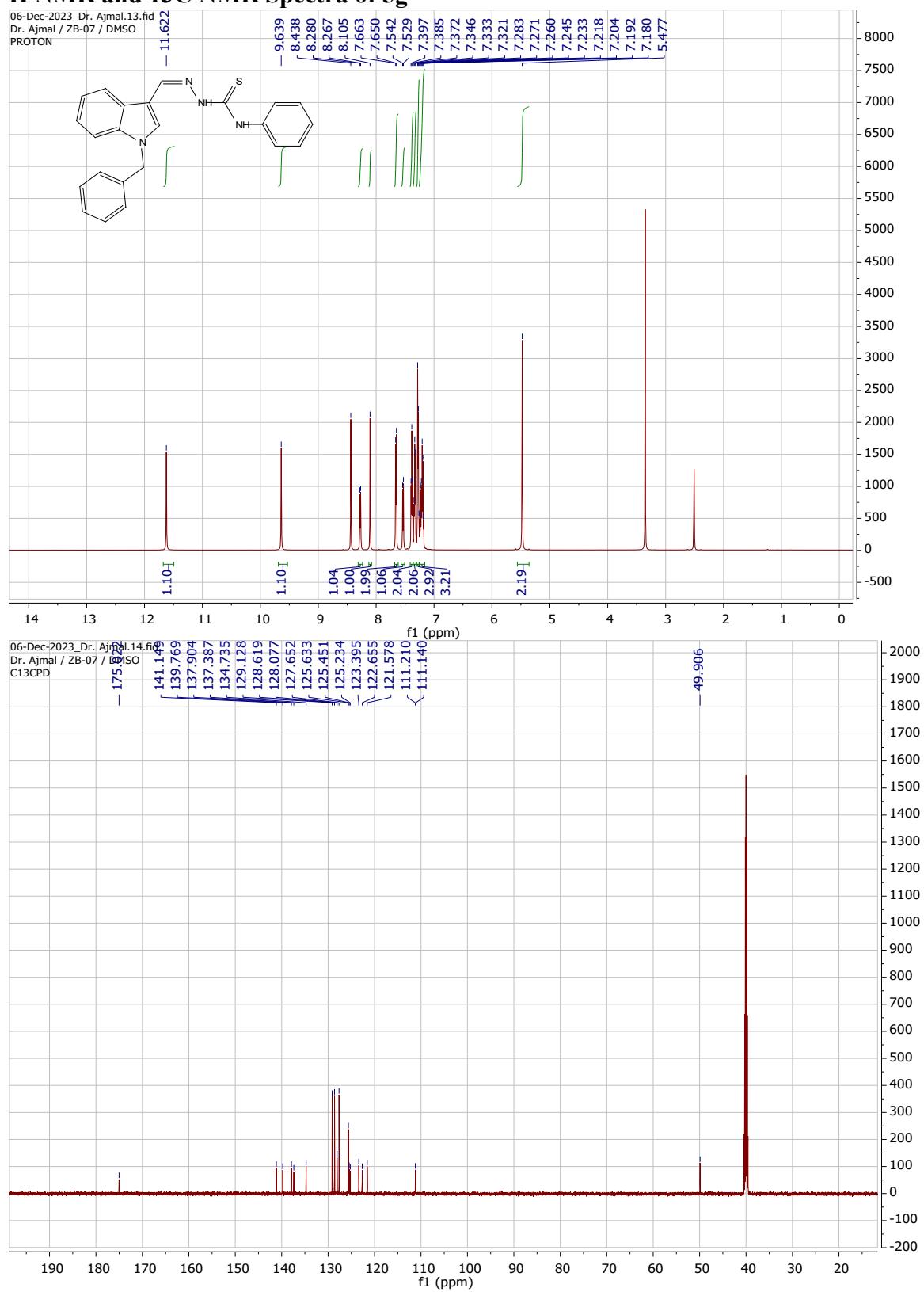
## 1H NMR and 13C NMR Spectra of 5e



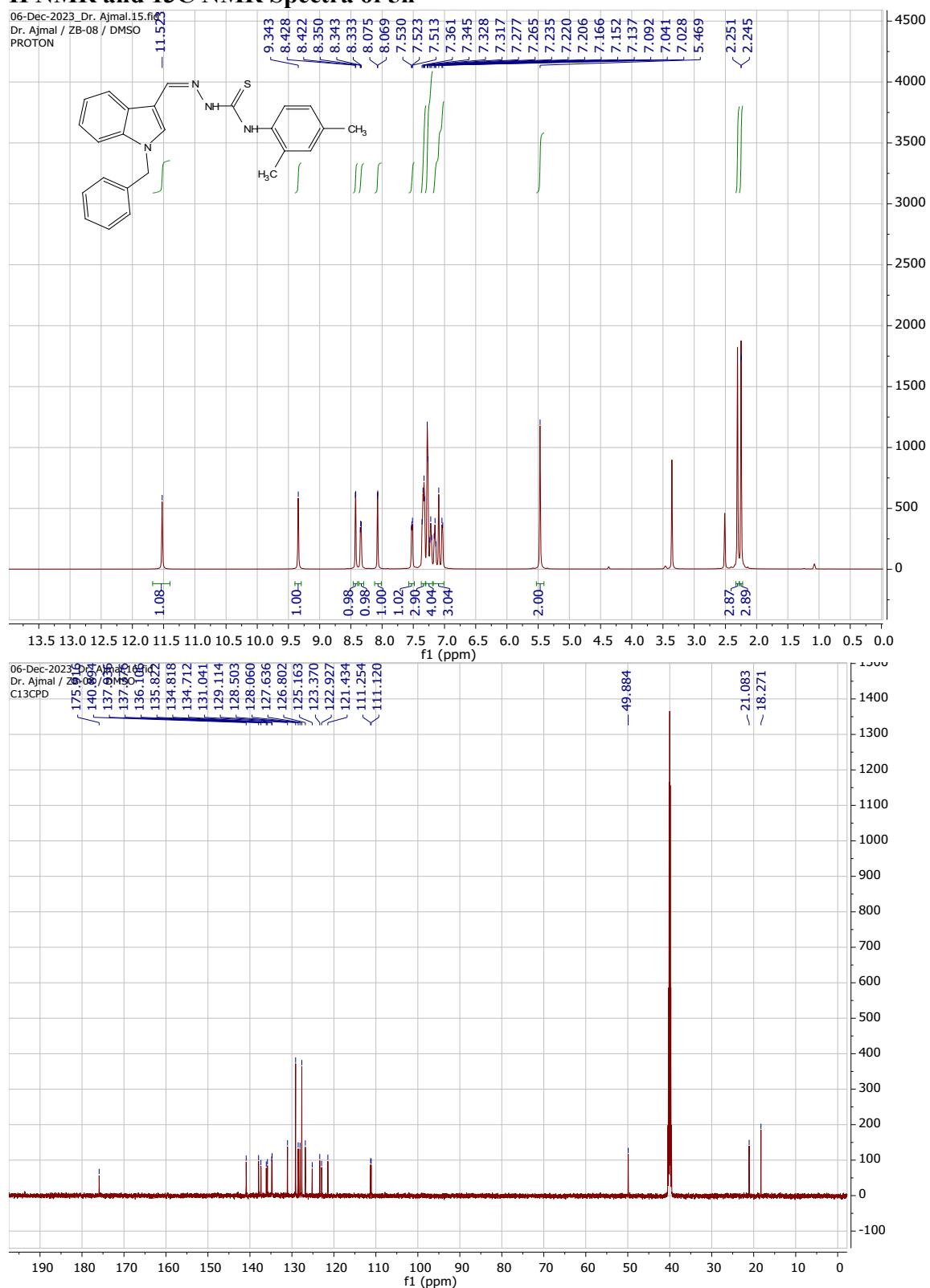
## 1H NMR and 13C NMR Spectra of 5f



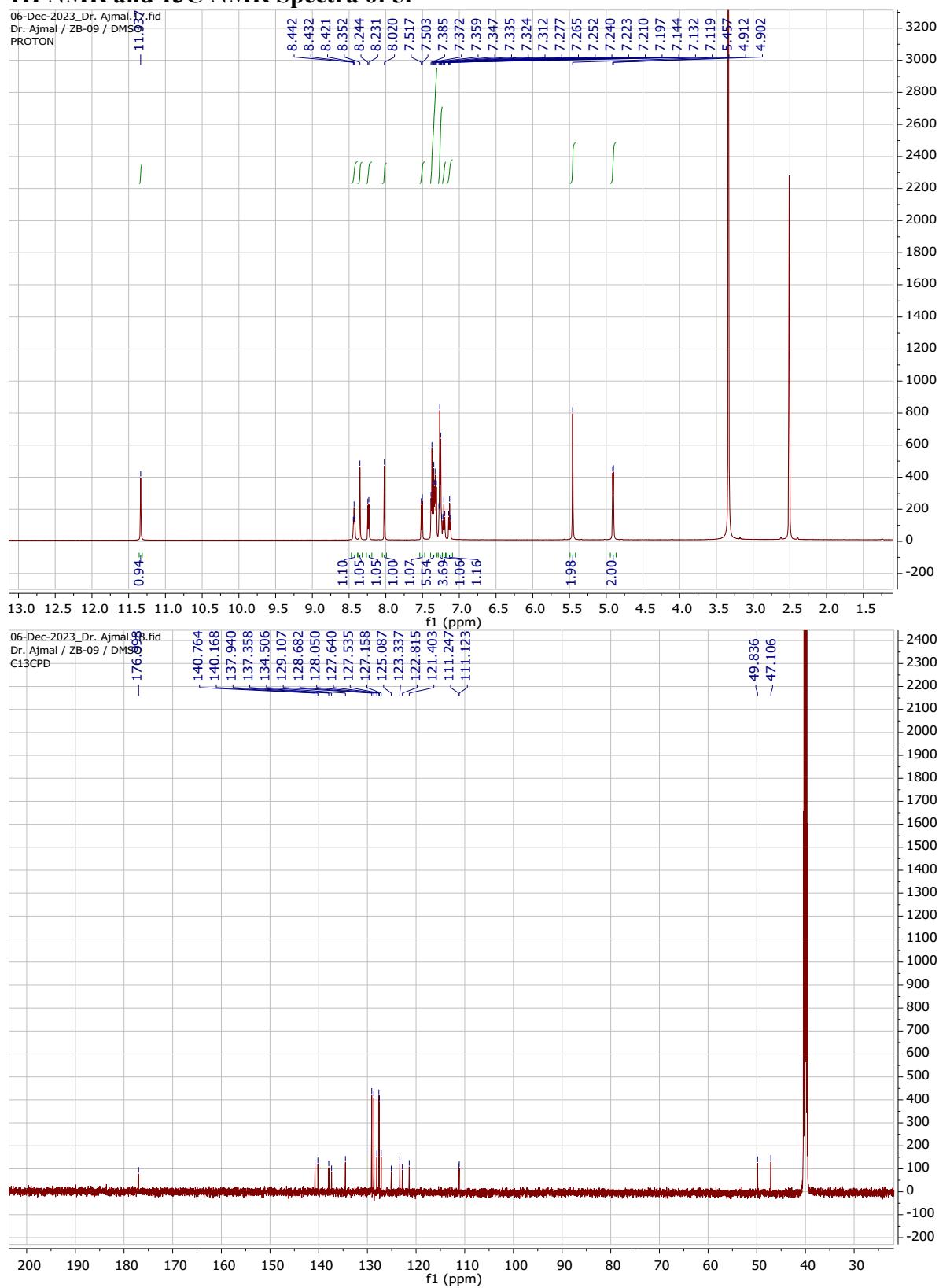
### H NMR and <sup>13</sup>C NMR Spectra of 5g



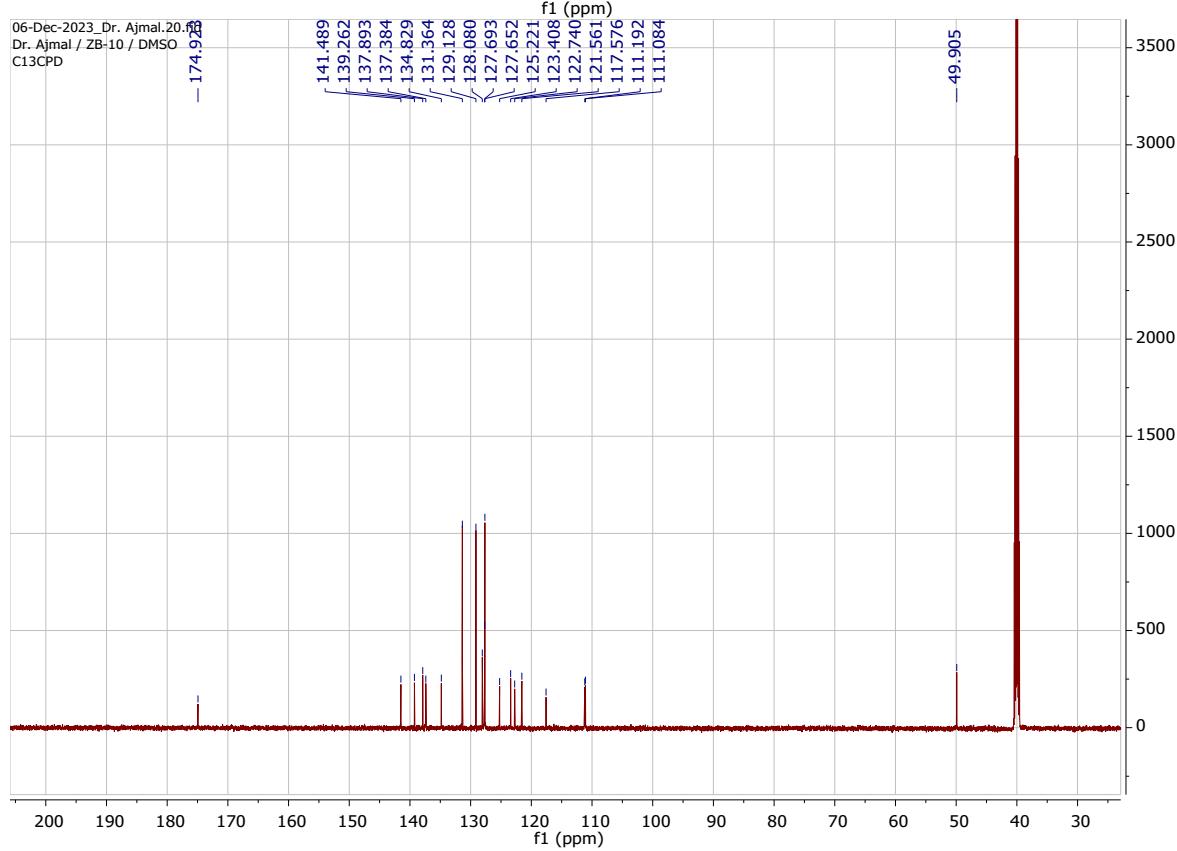
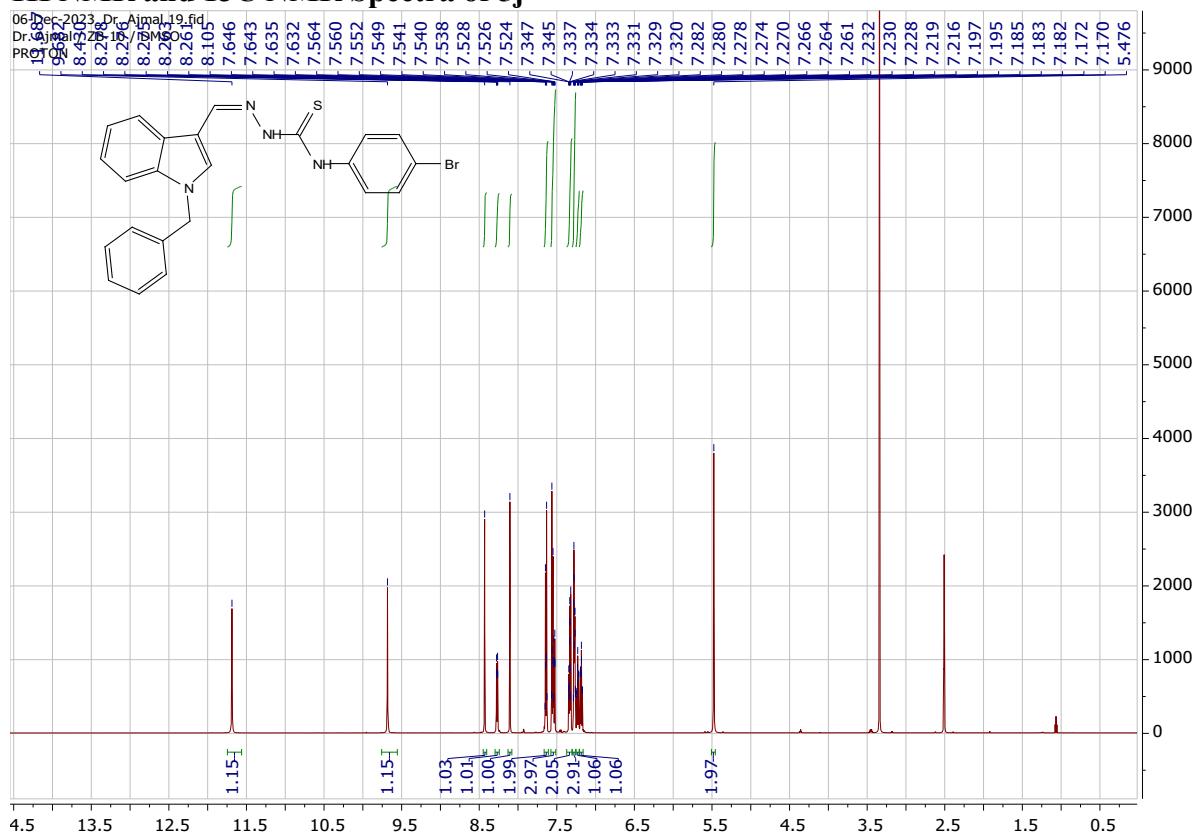
### H NMR and <sup>13</sup>C NMR Spectra of 5h



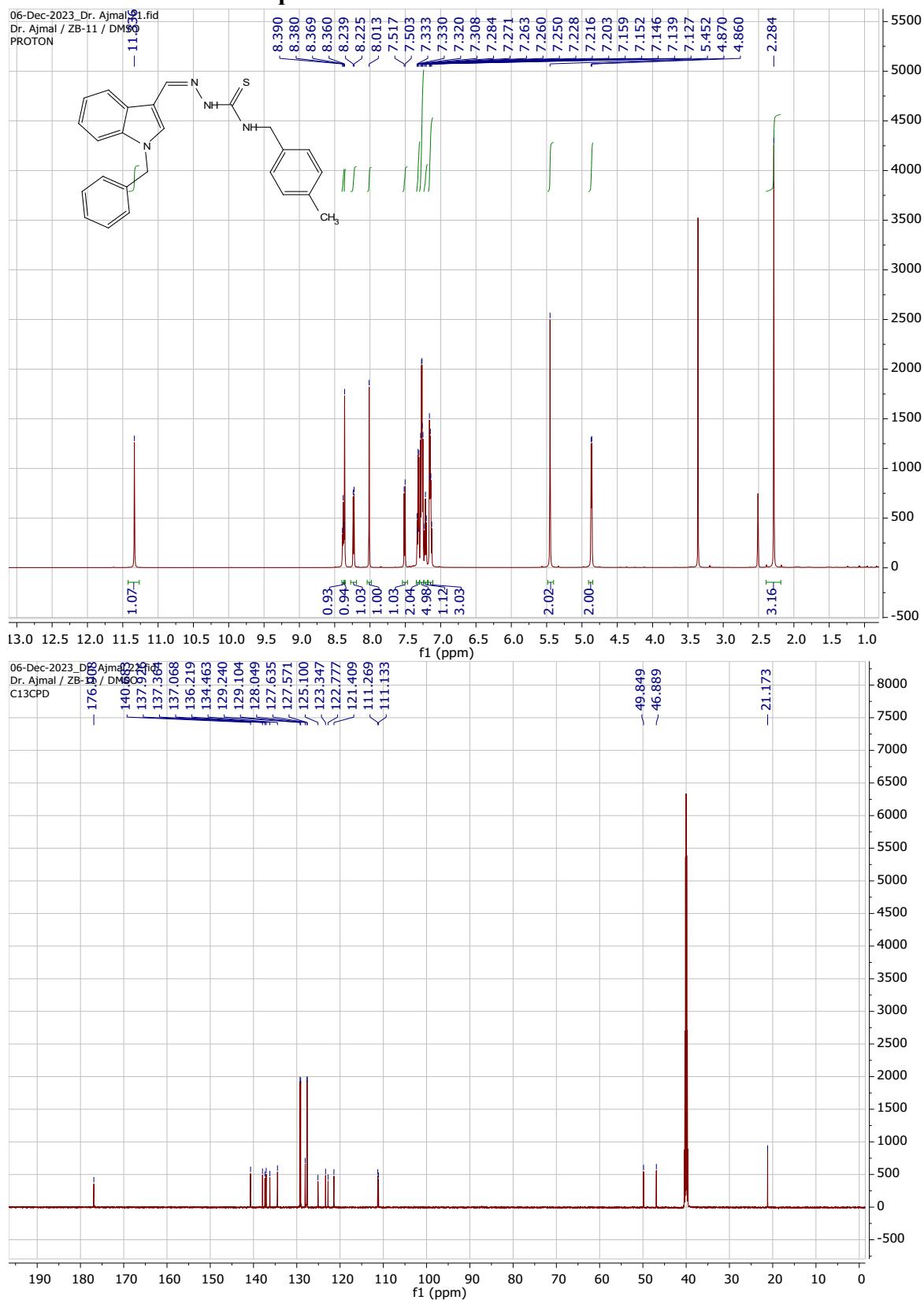
### 1H NMR and 13C NMR Spectra of 5i



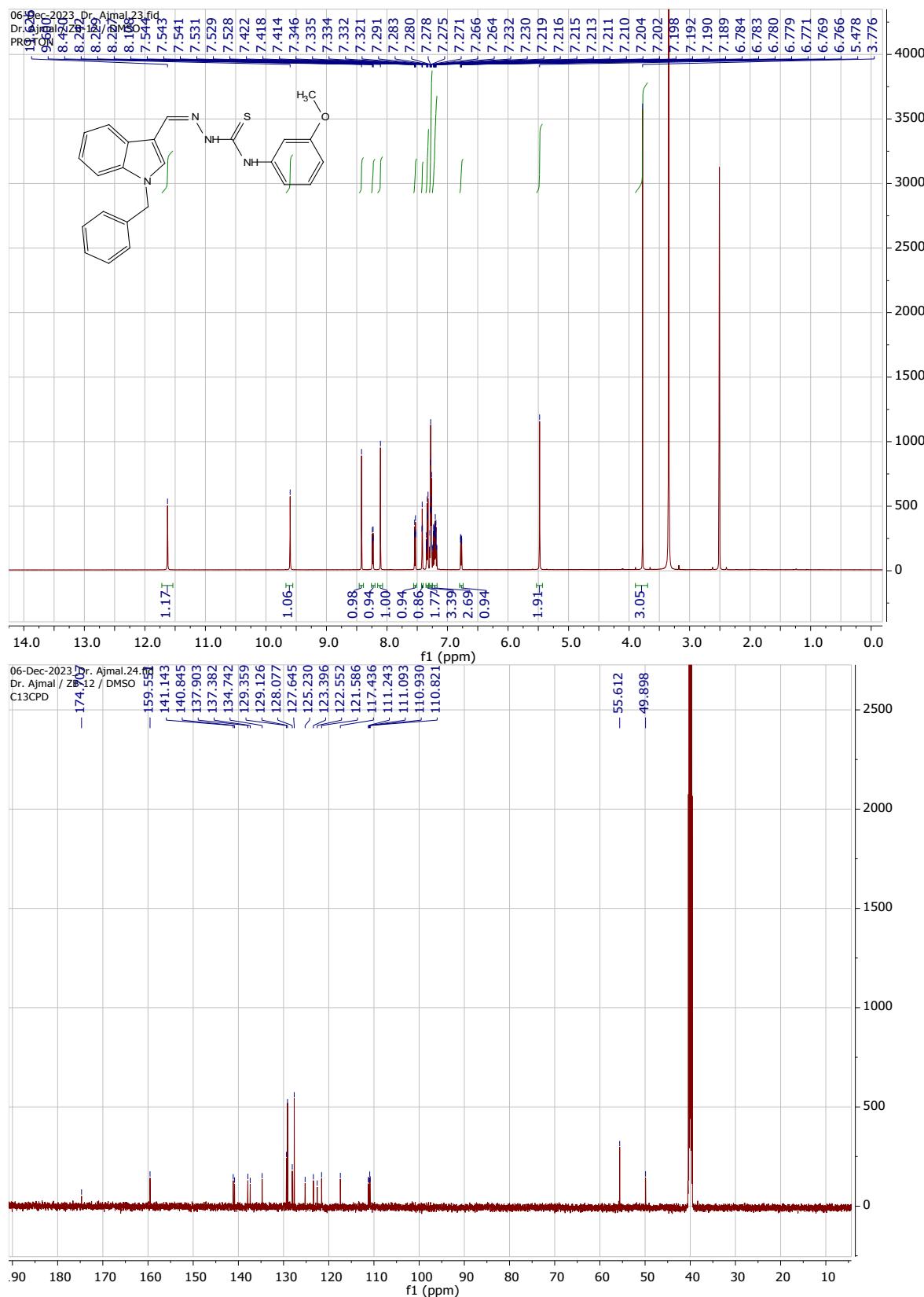
### **<sup>1</sup>H NMR and <sup>13</sup>C NMR Spectra of 5j**



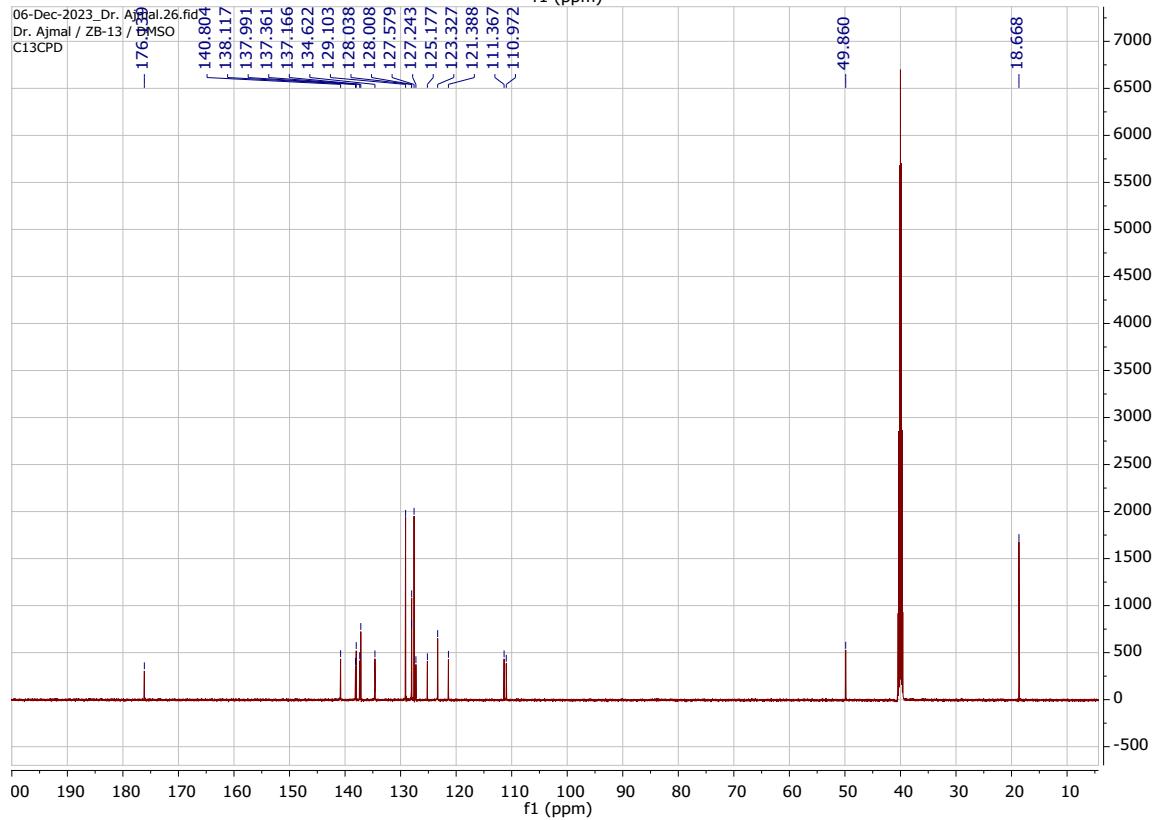
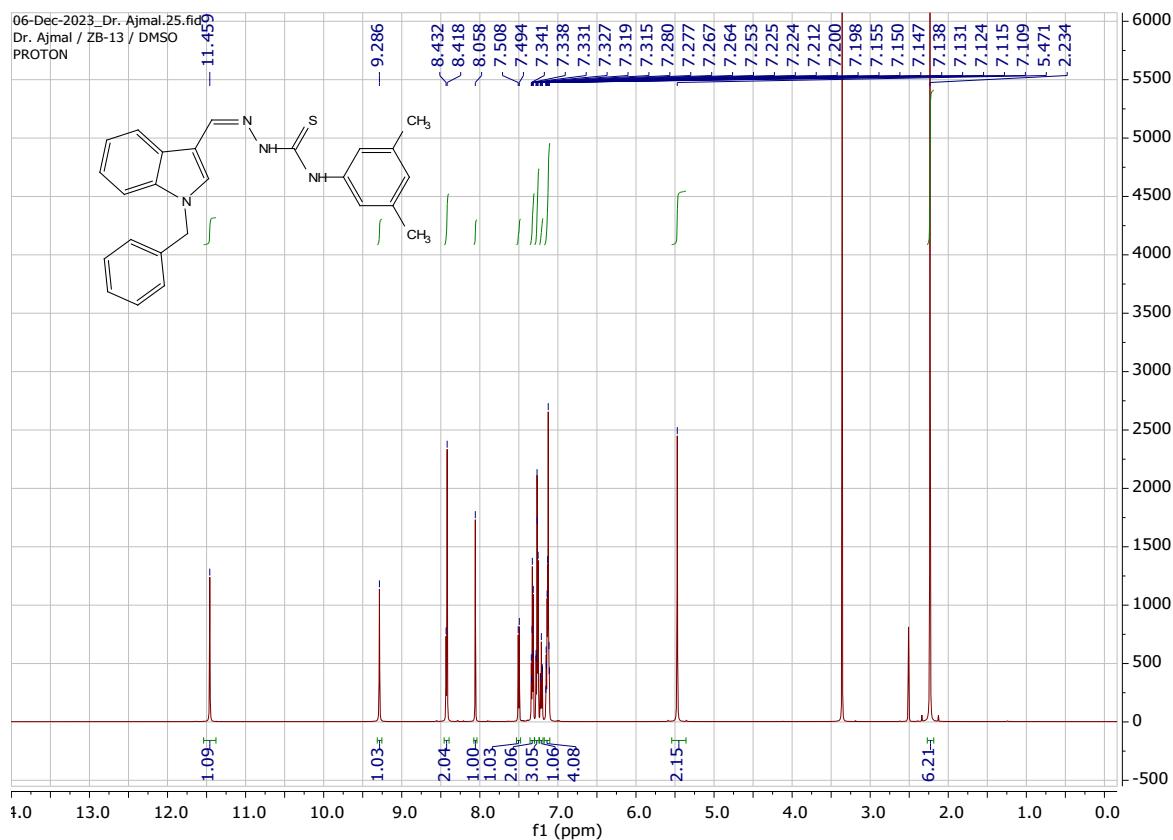
**<sup>1</sup>H NMR and <sup>13</sup>C NMR Spectra of 5k**



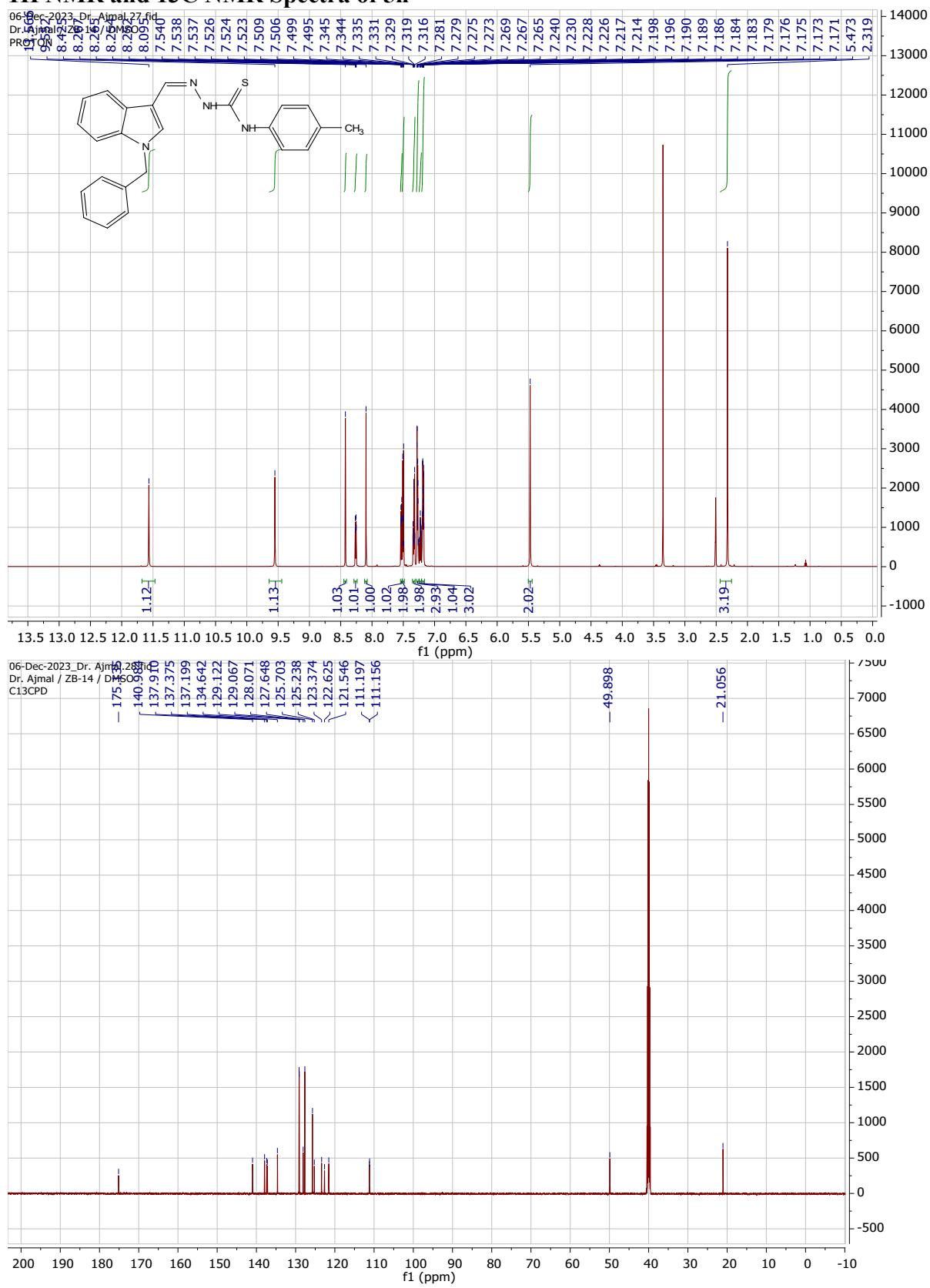
## 1H NMR and 13C NMR Spectra of 5l



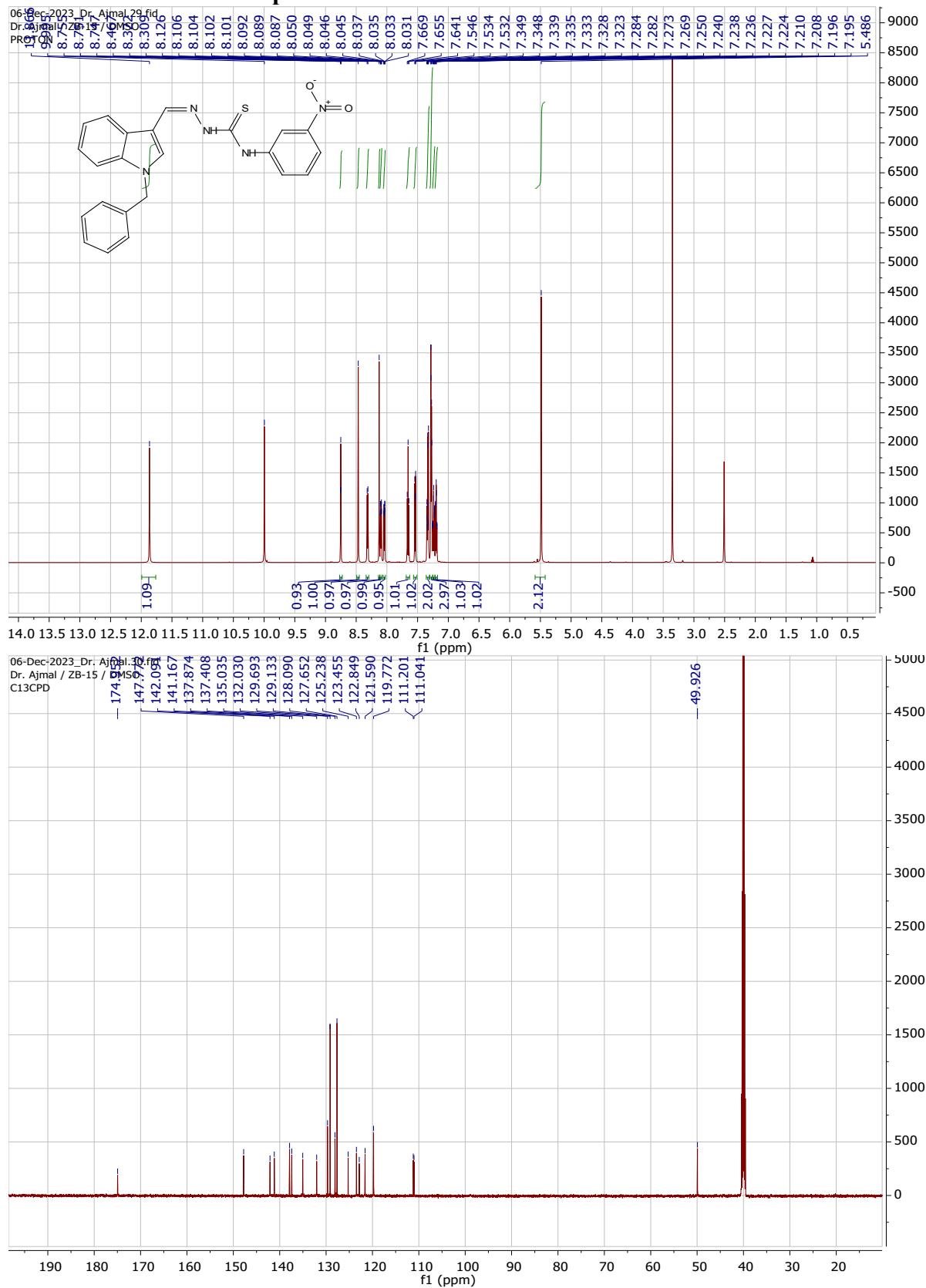
## 1H NMR and 13C NMR Spectra of 5m



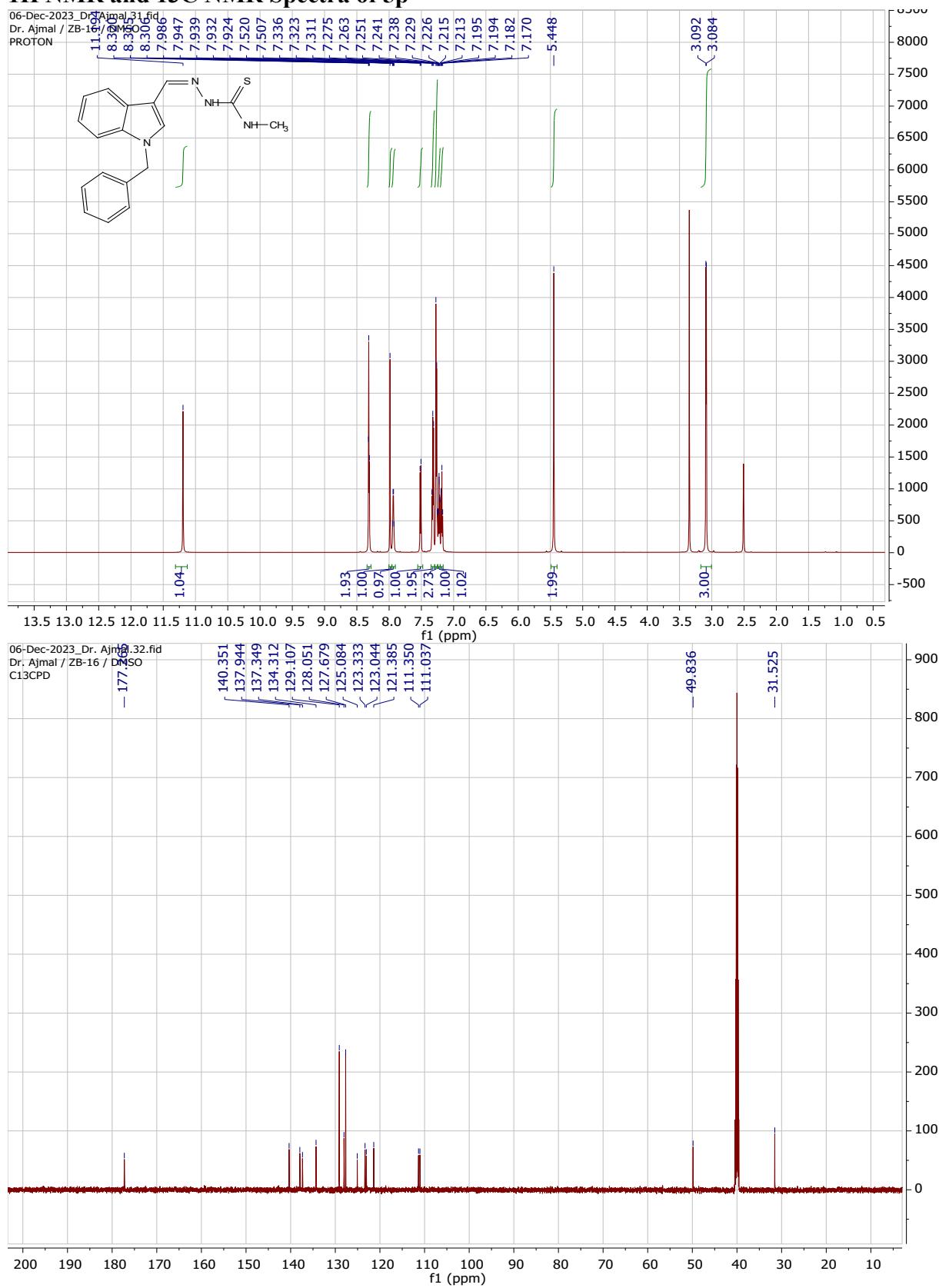
### 1H NMR and 13C NMR Spectra of 5n



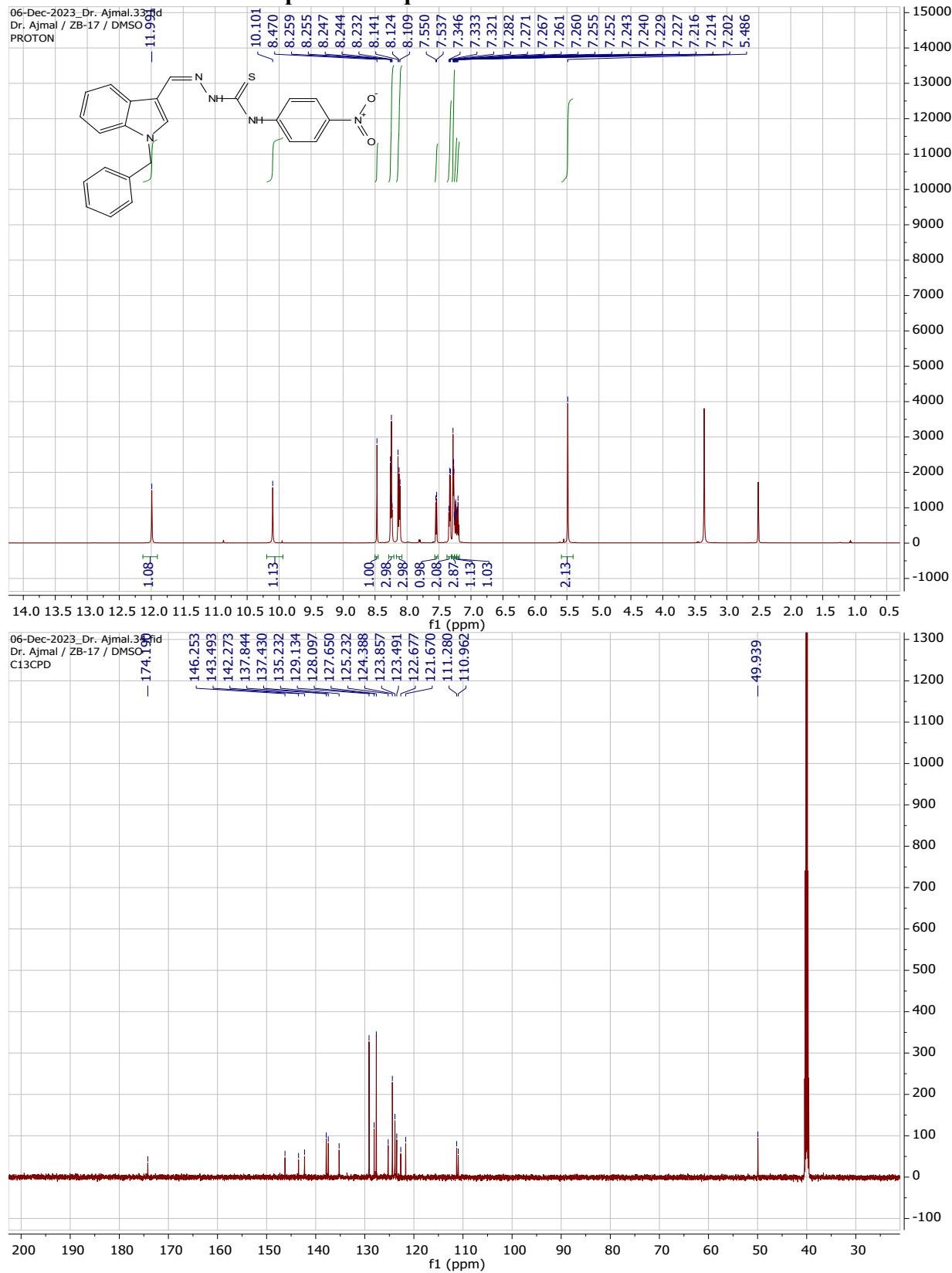
**<sup>1</sup>H NMR and <sup>13</sup>C NMR Spectra of 5o**



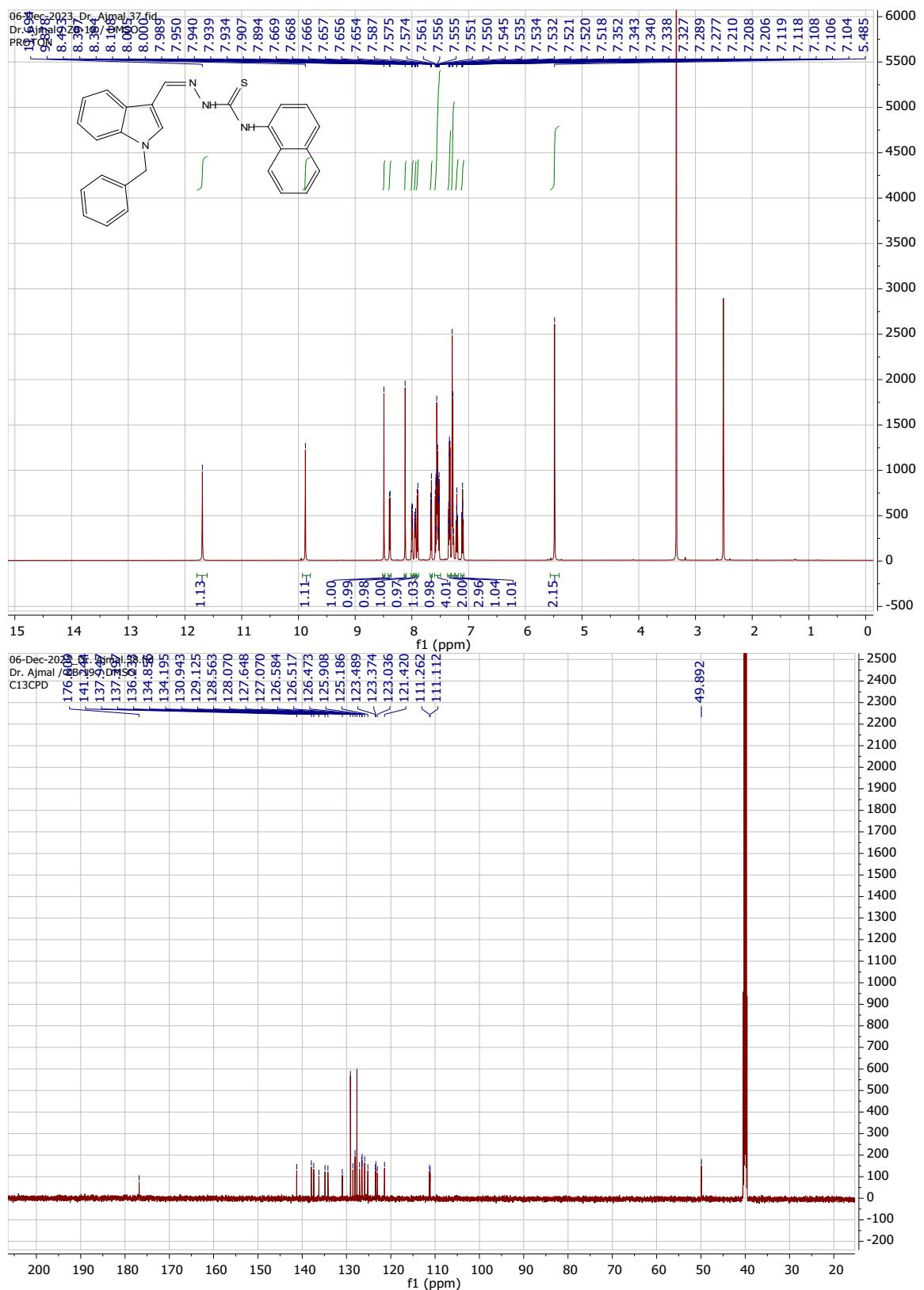
## 1H NMR and 13C NMR Spectra of 5p



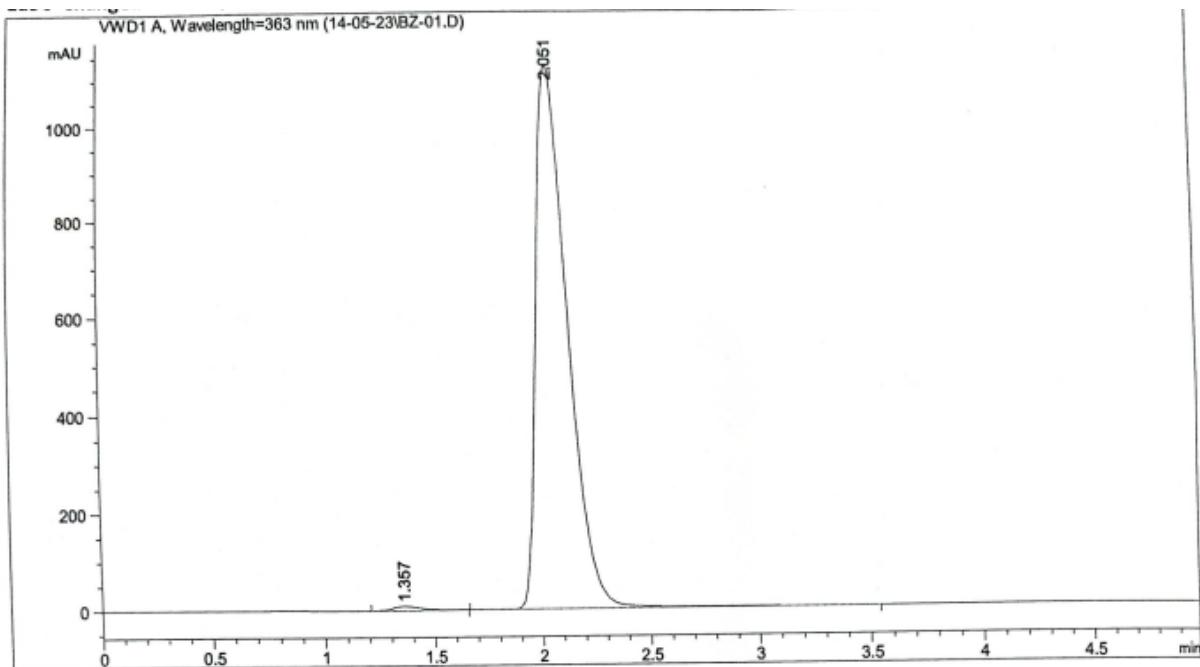
## 1H NMR and 13C NMR Spectra of 5q



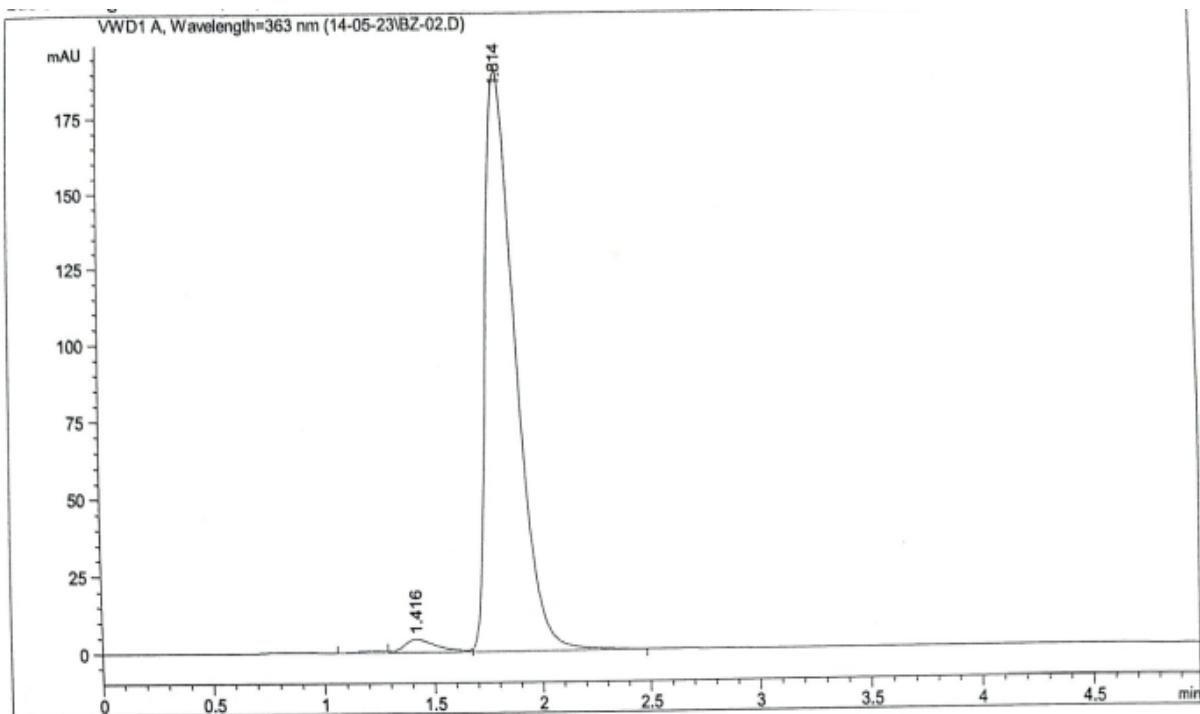
## 1H NMR and 13C NMR Spectra of 5r



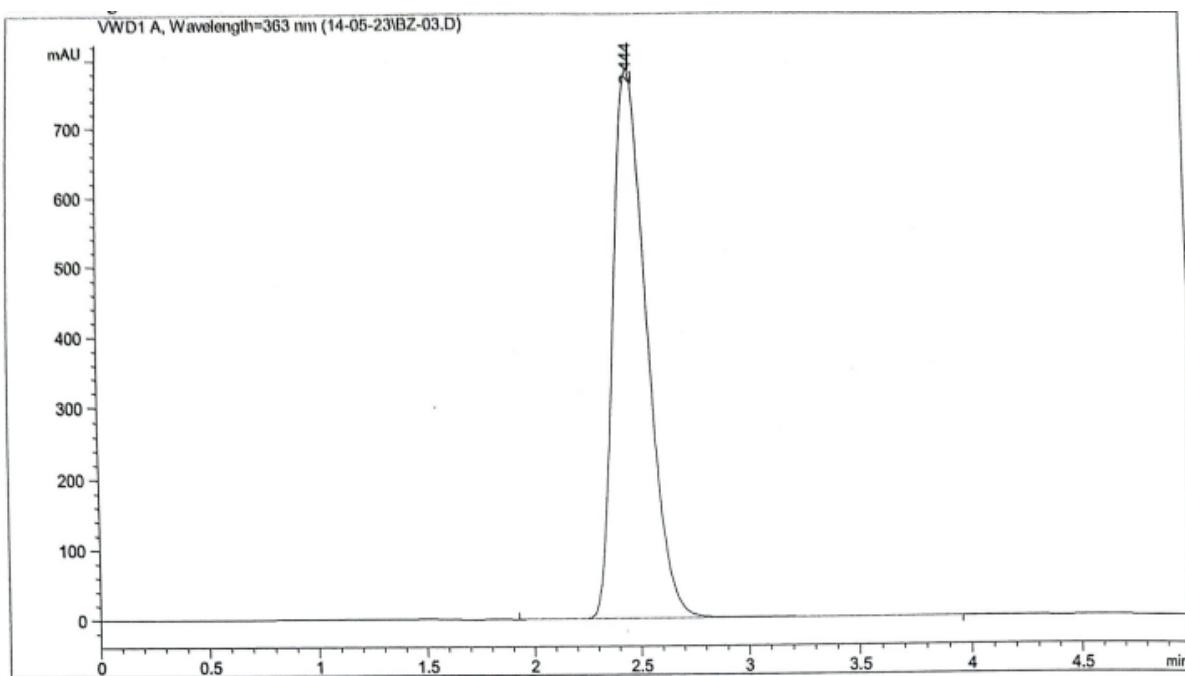
### HPLC chromatogram of 5a



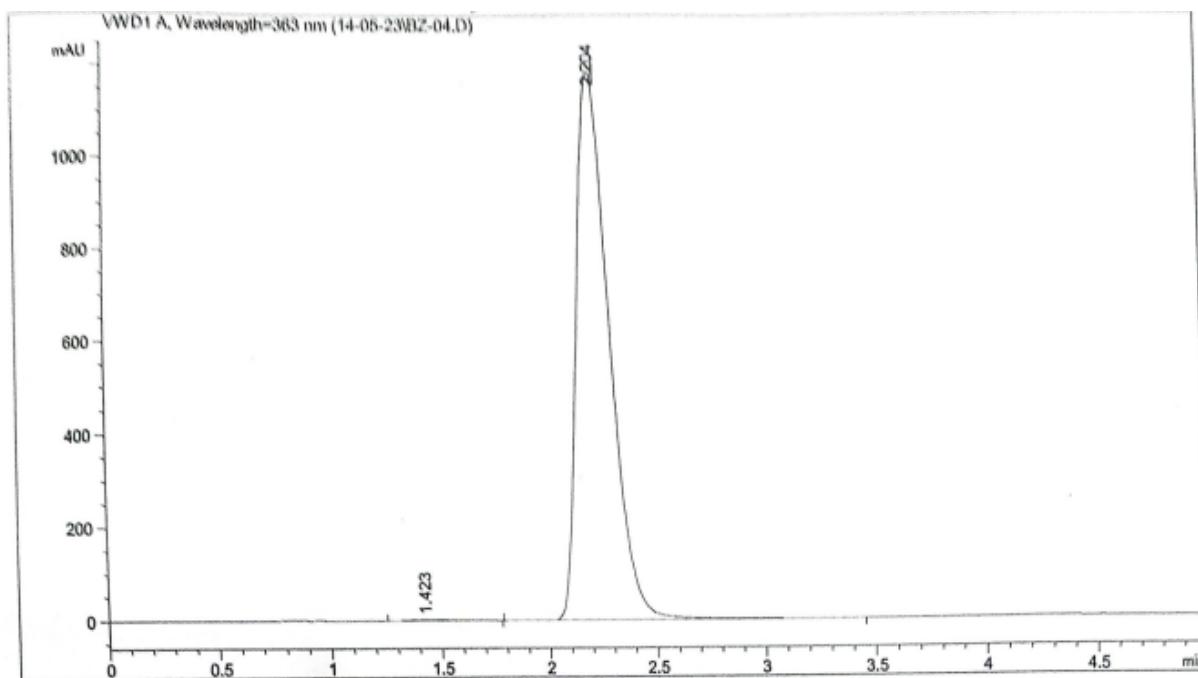
### HPLC chromatogram of 5b



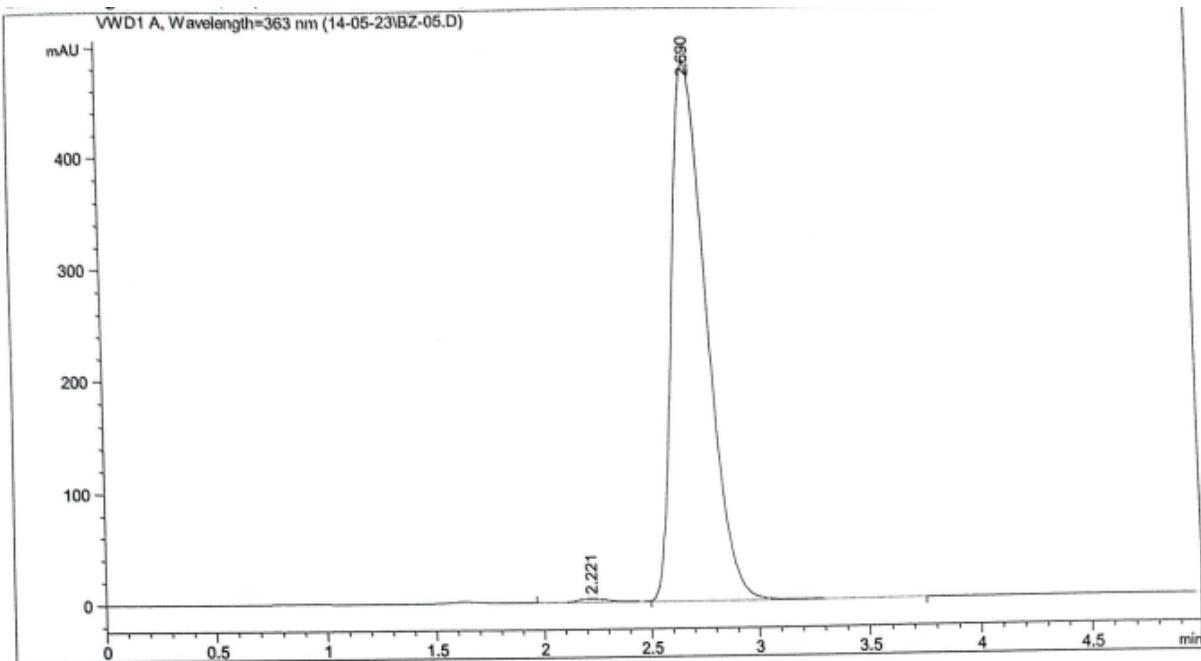
### HPLC chromatogram of 5c



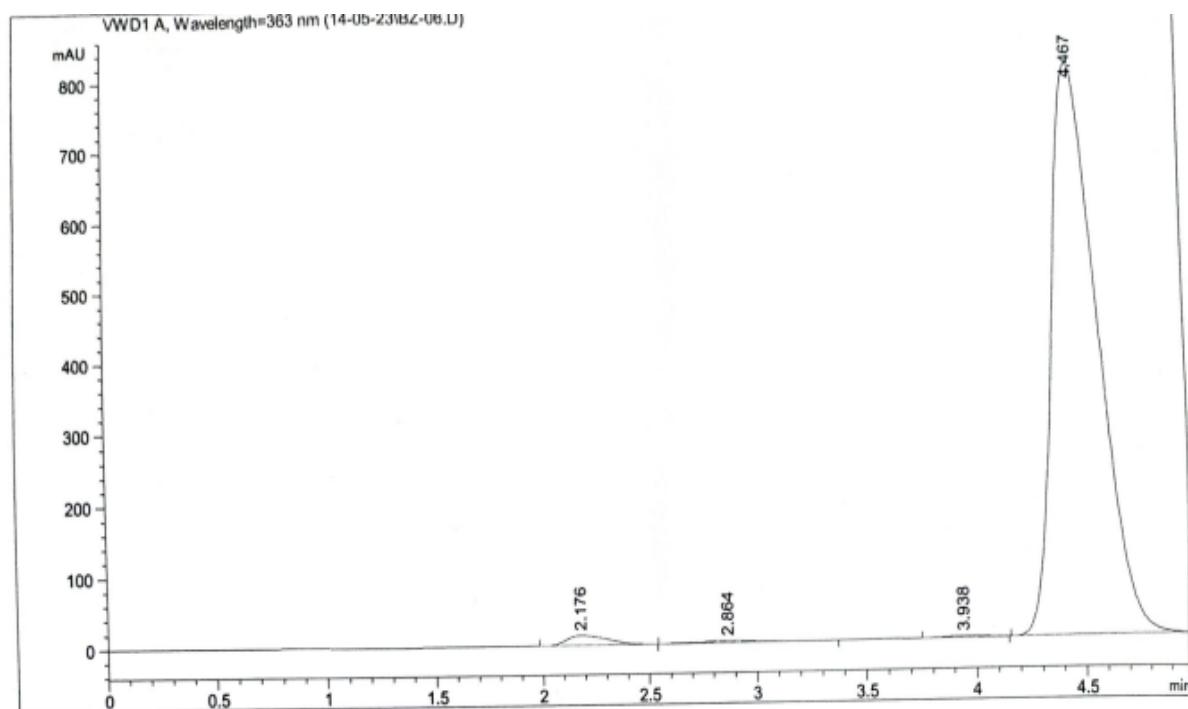
### HPLC chromatogram of 5d



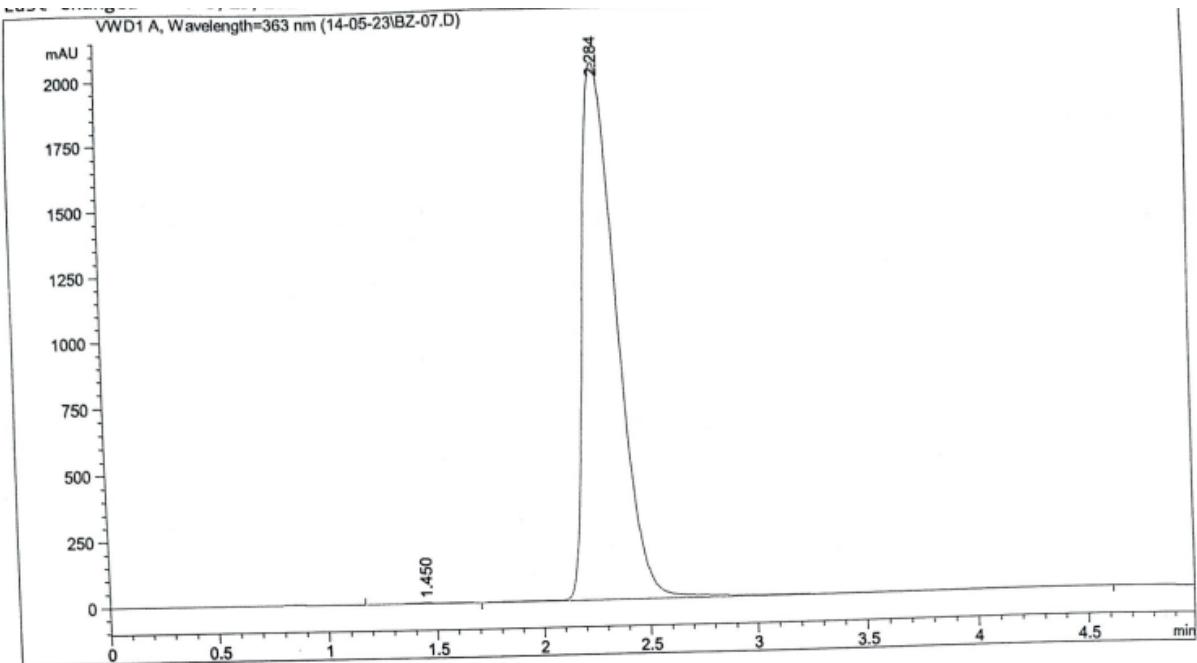
### HPLC chromatogram of 5e



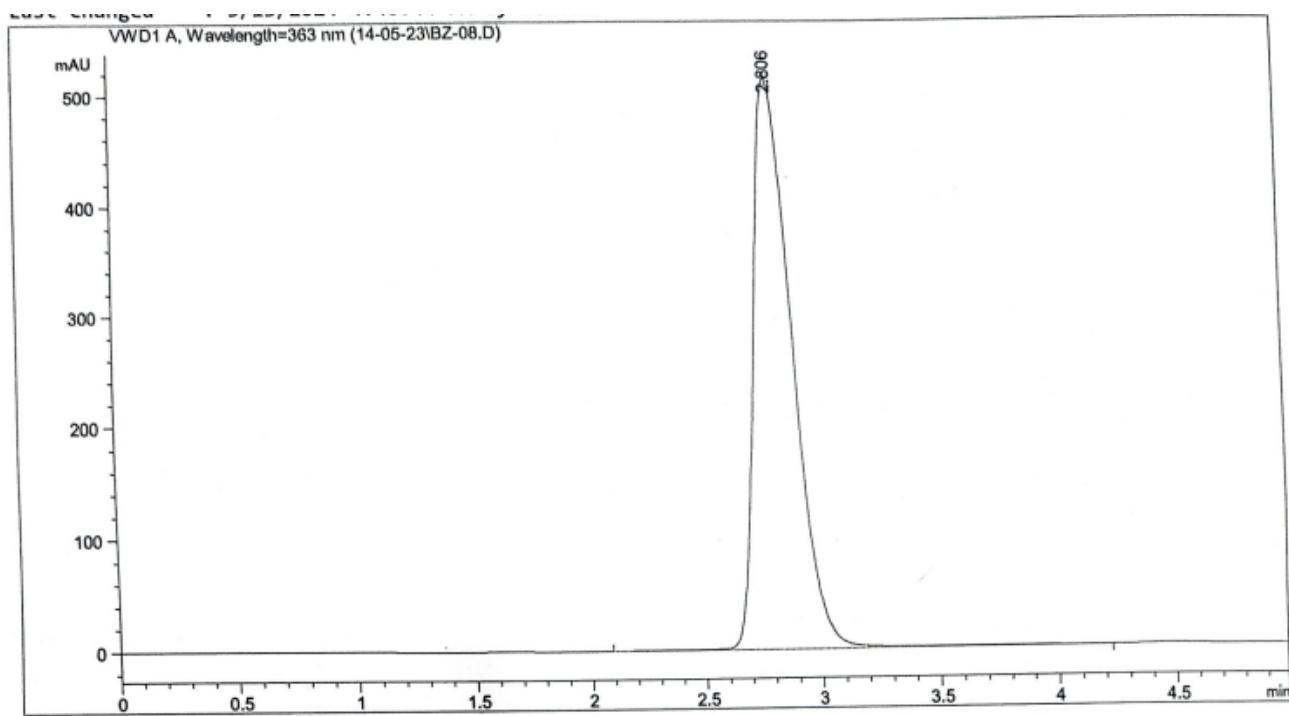
### HPLC chromatogram of 5f



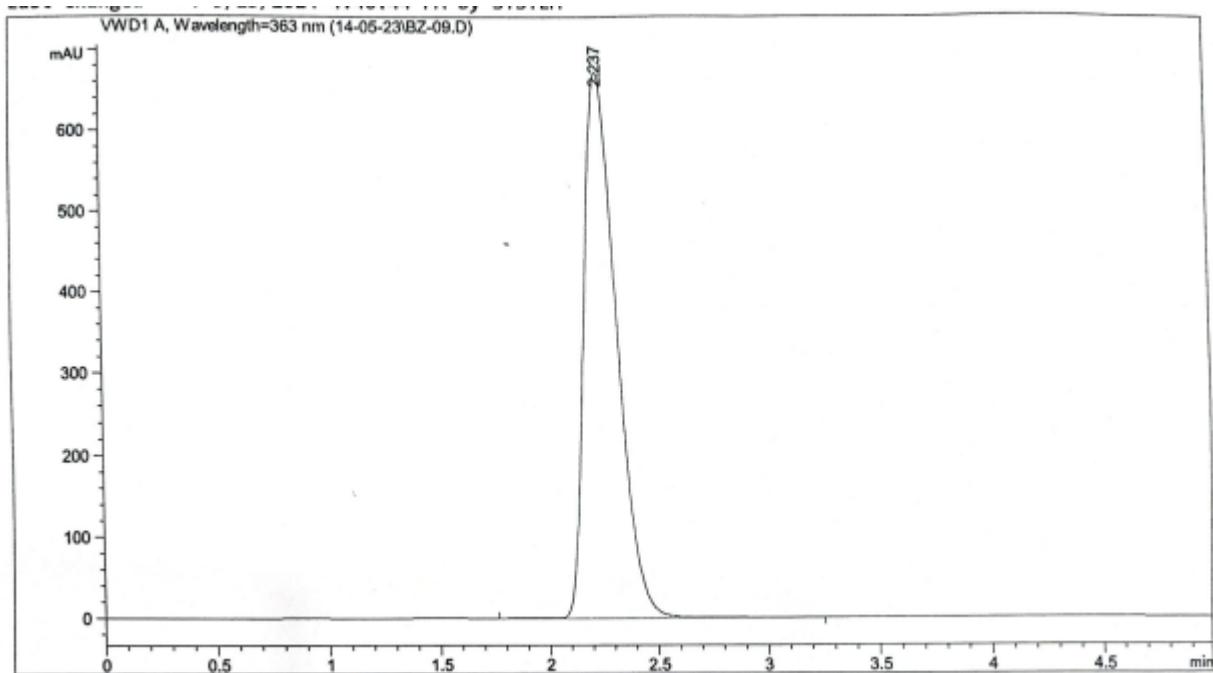
### HPLC chromatogram of 5g



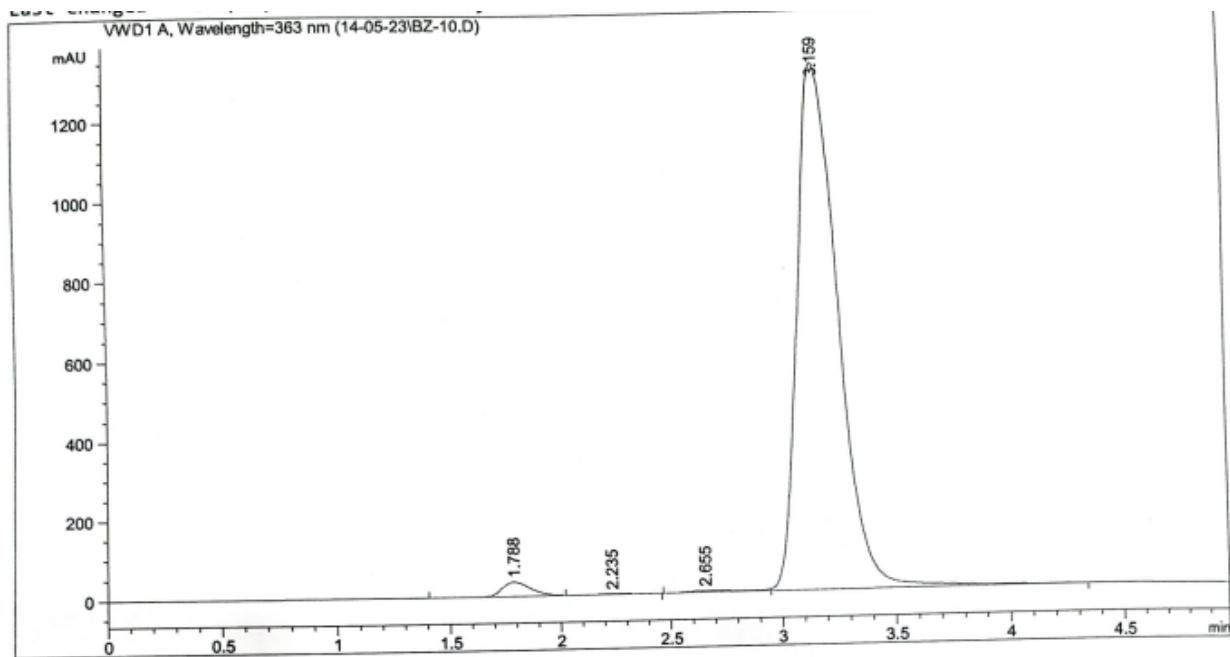
### HPLC chromatogram of 5h



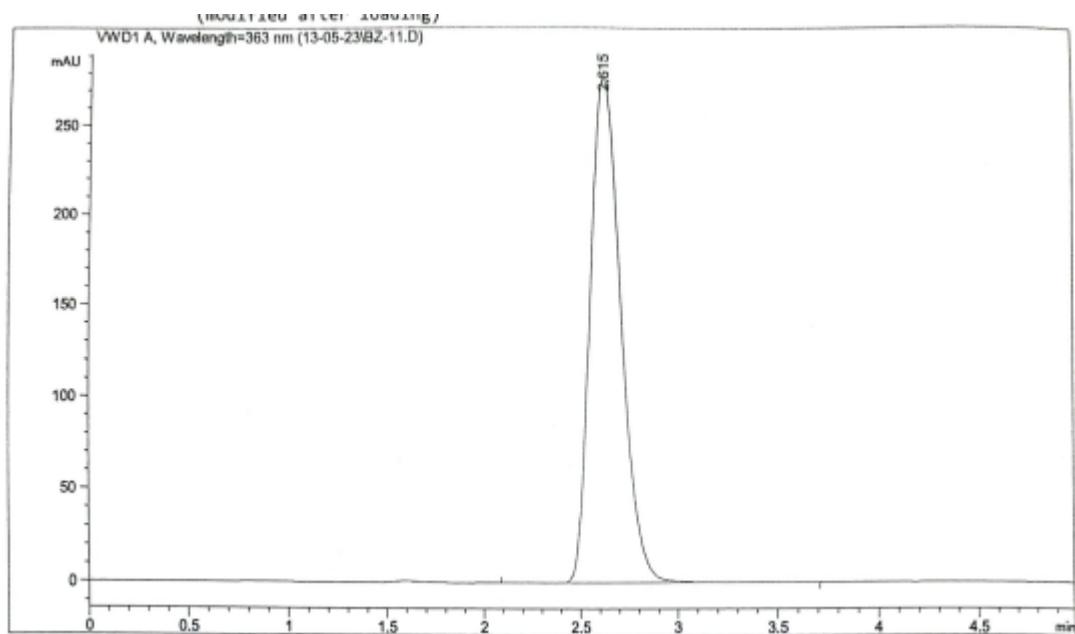
### HPLC chromatogram of 5i



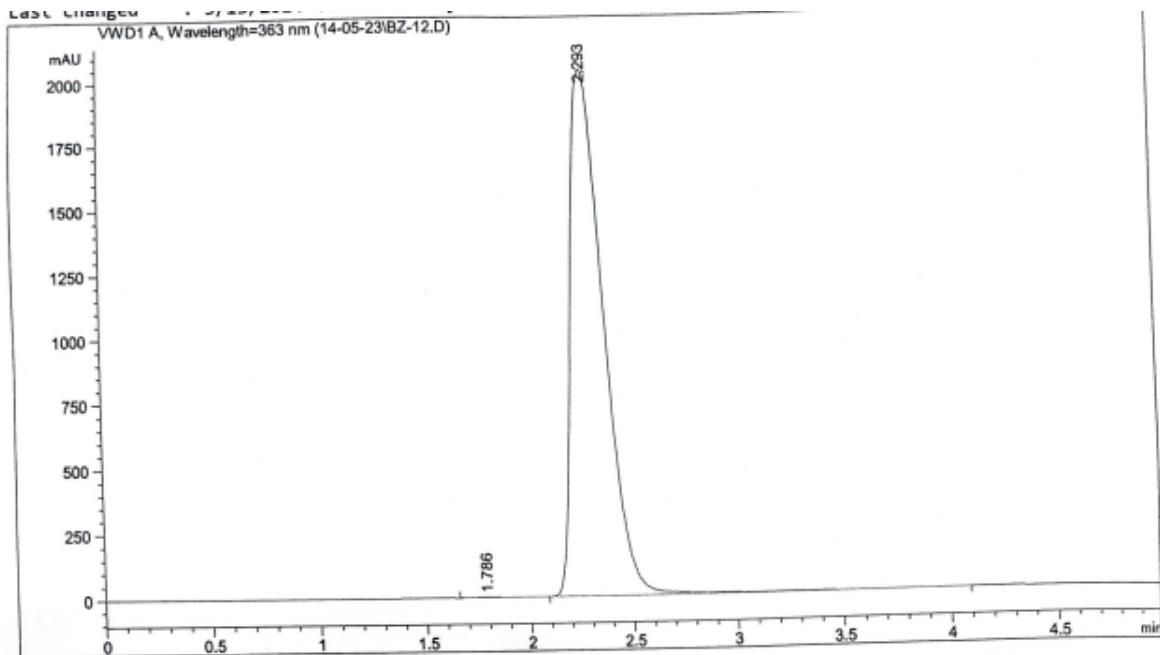
### HPLC chromatogram of 5j



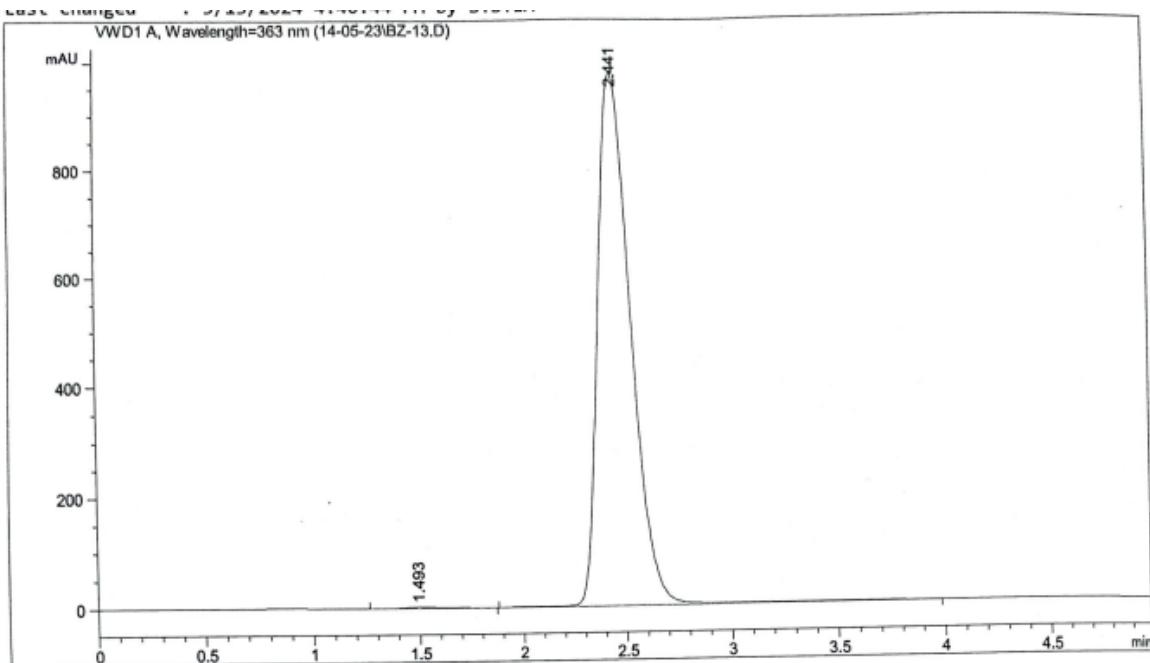
### HPLC chromatogram of 5k



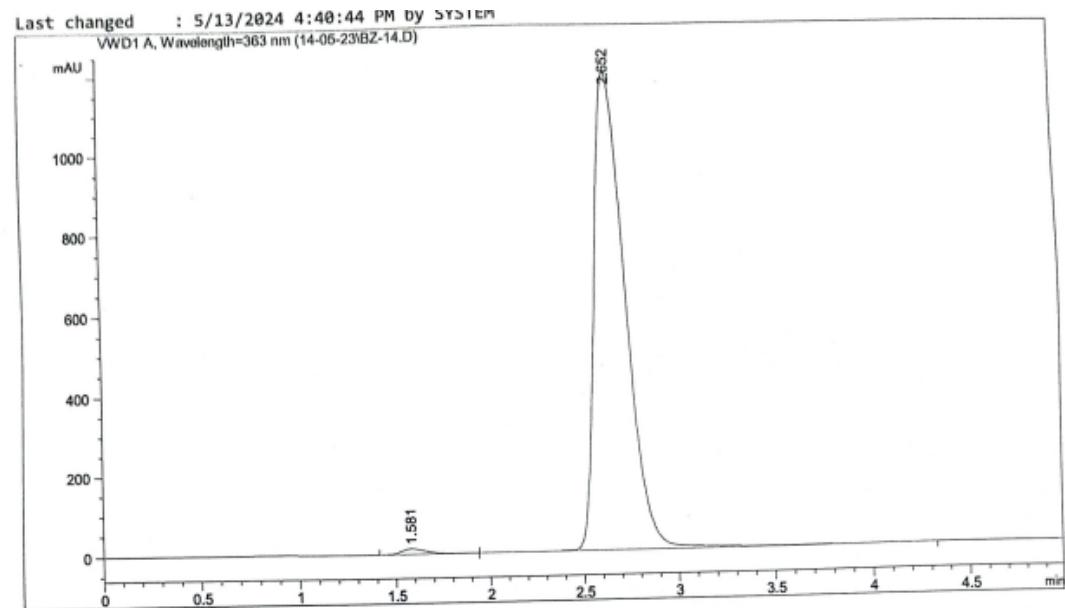
### HPLC chromatogram of 5l



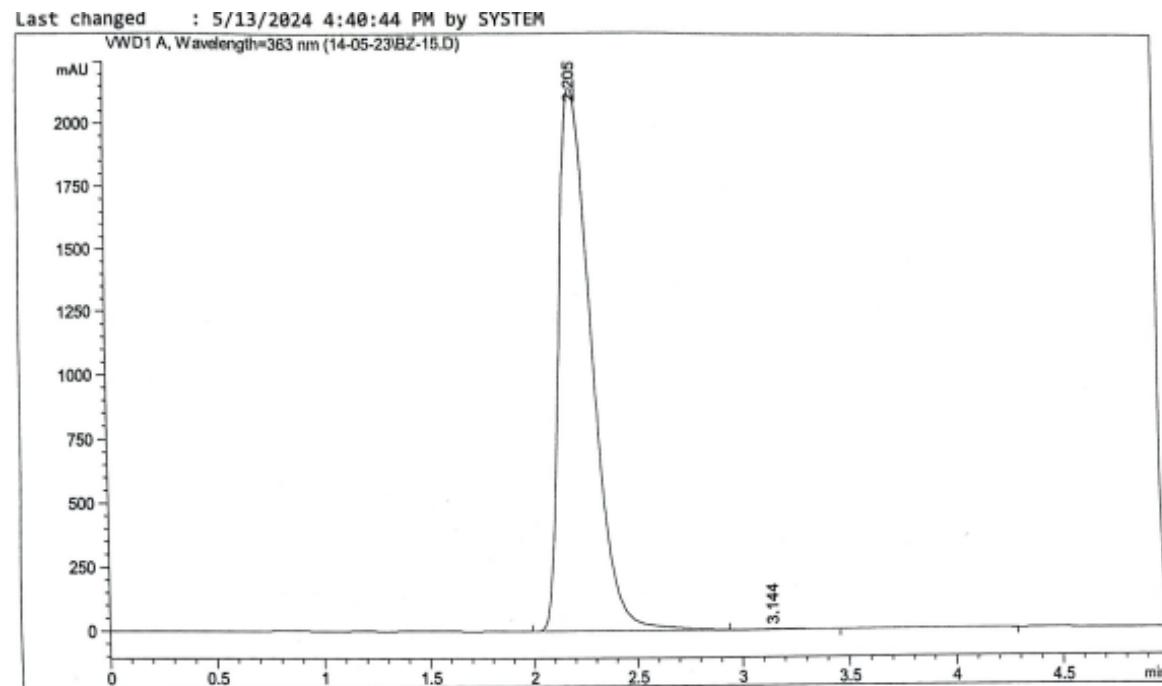
### HPLC chromatogram of 5m



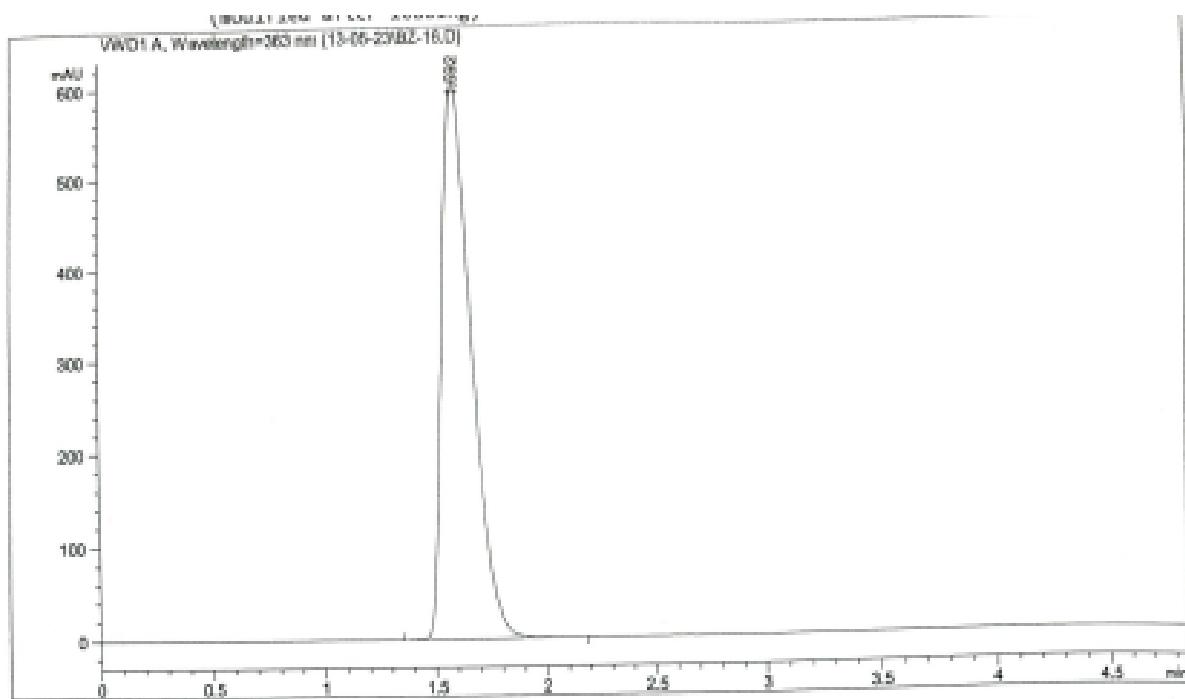
### HPLC chromatogram of 5n



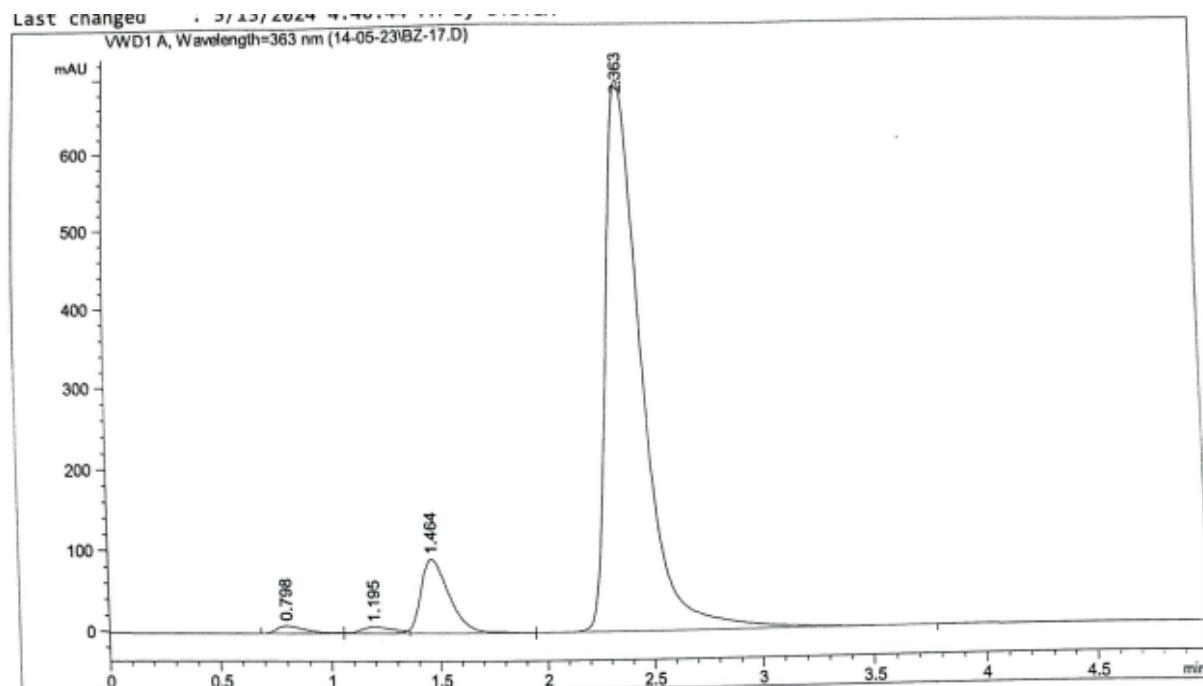
### HPLC chromatogram of 5o



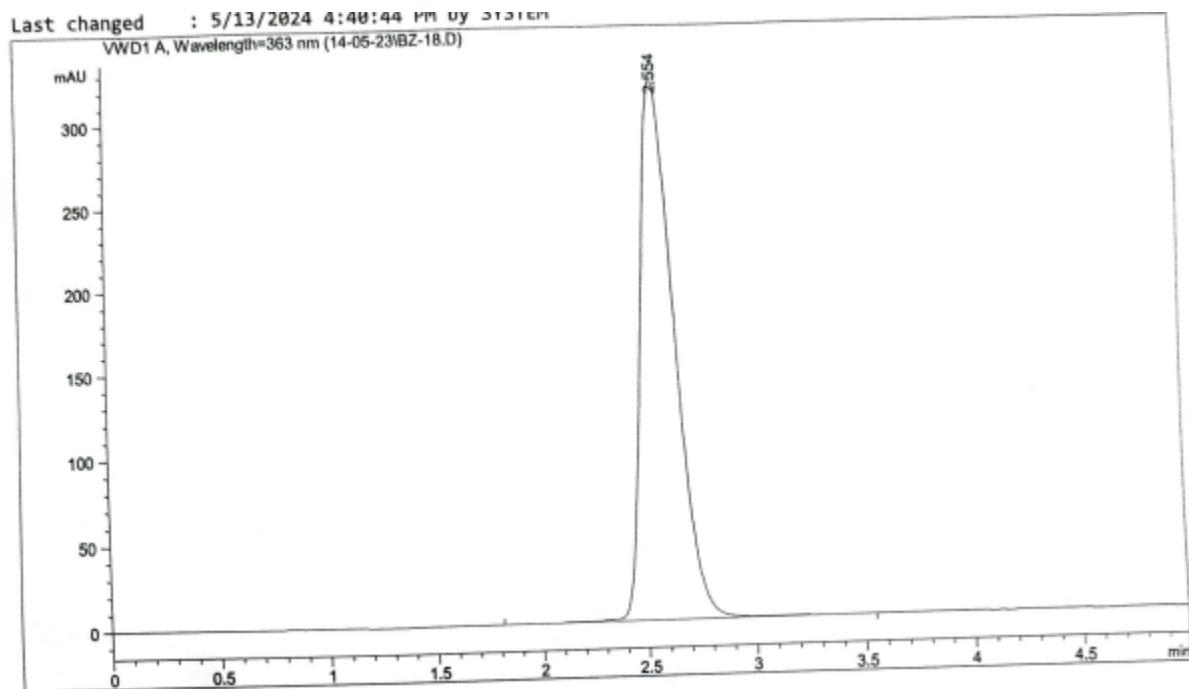
### HPLC chromatogram of 5p



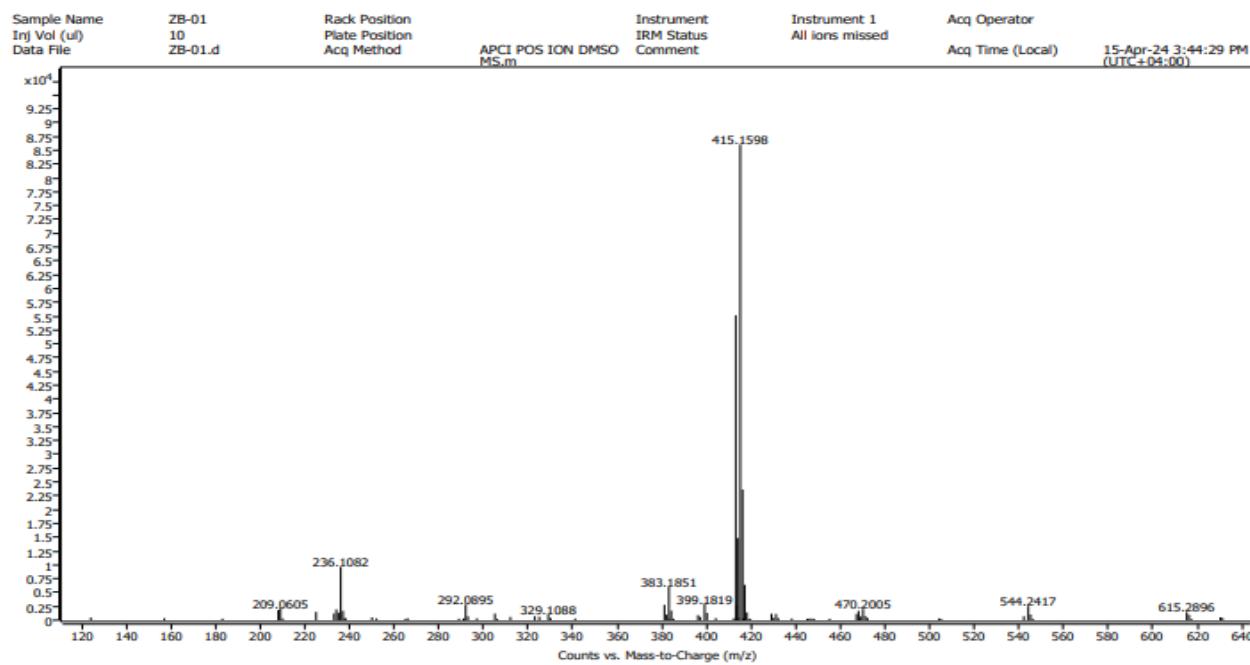
### HPLC chromatogram of 5q



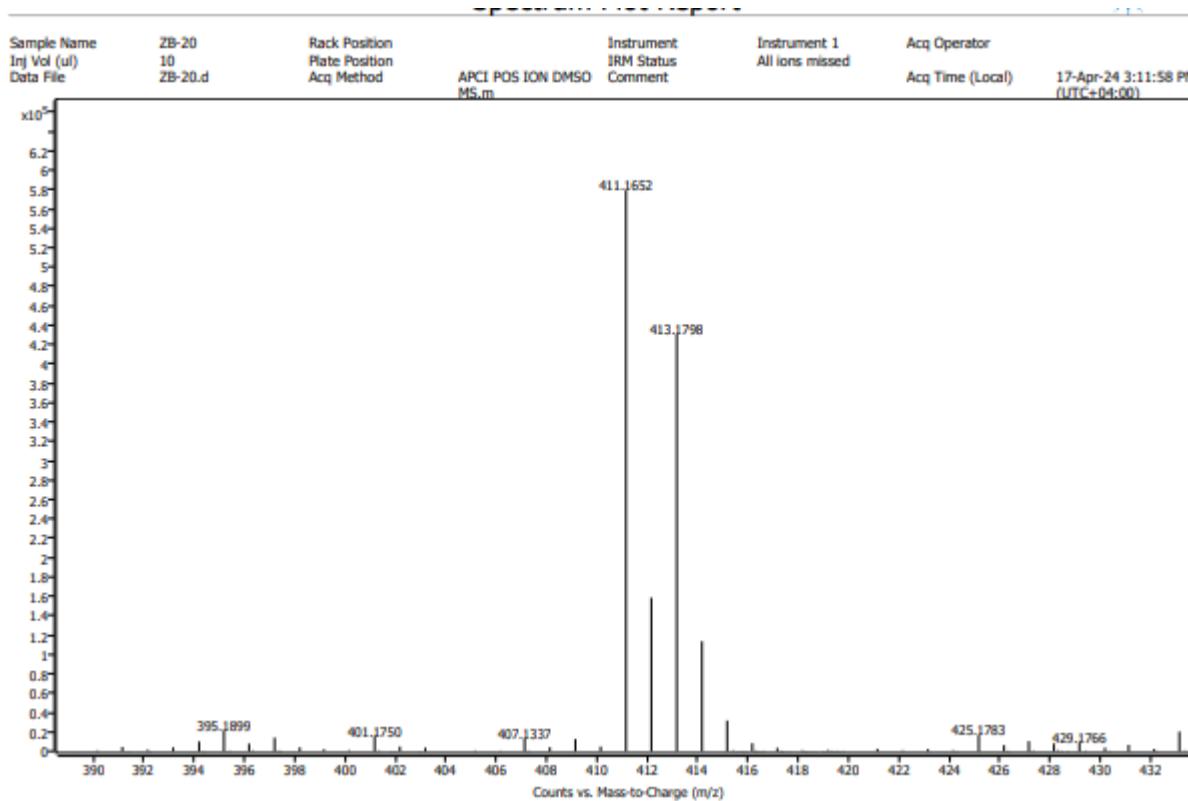
### HPLC chromatogram of 5r



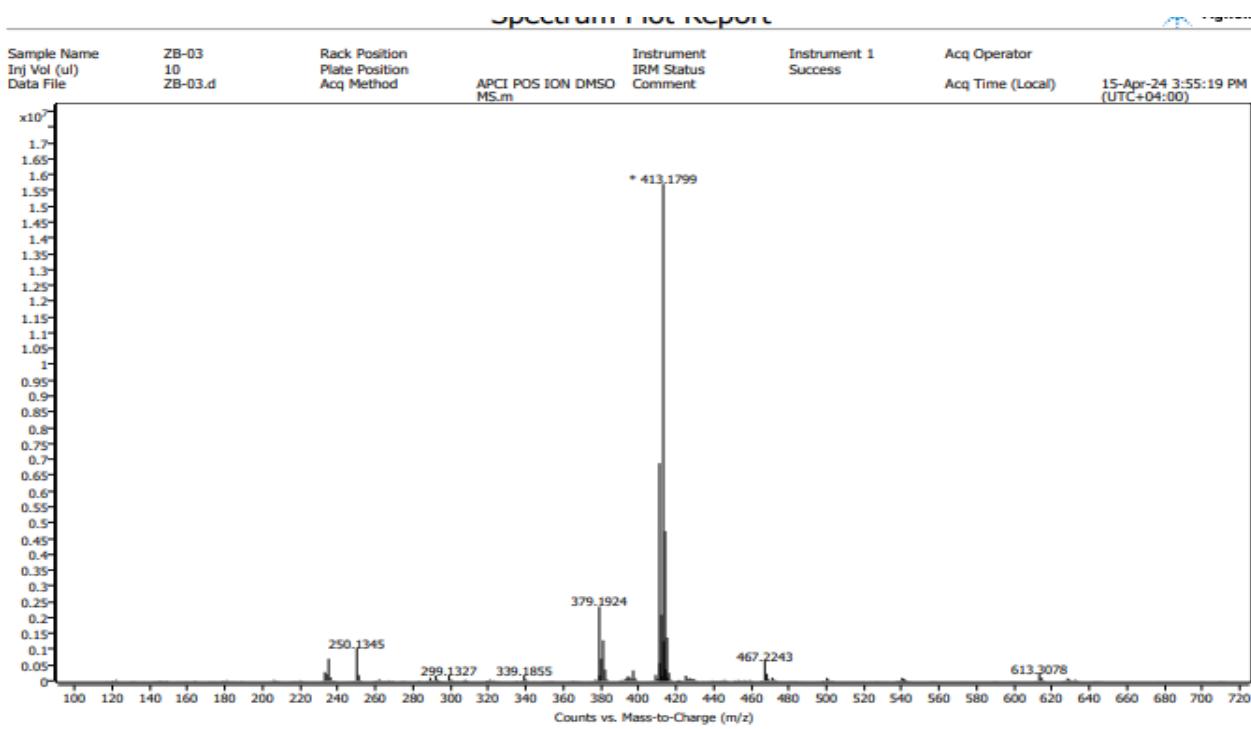
## Mass spectrum of 5a



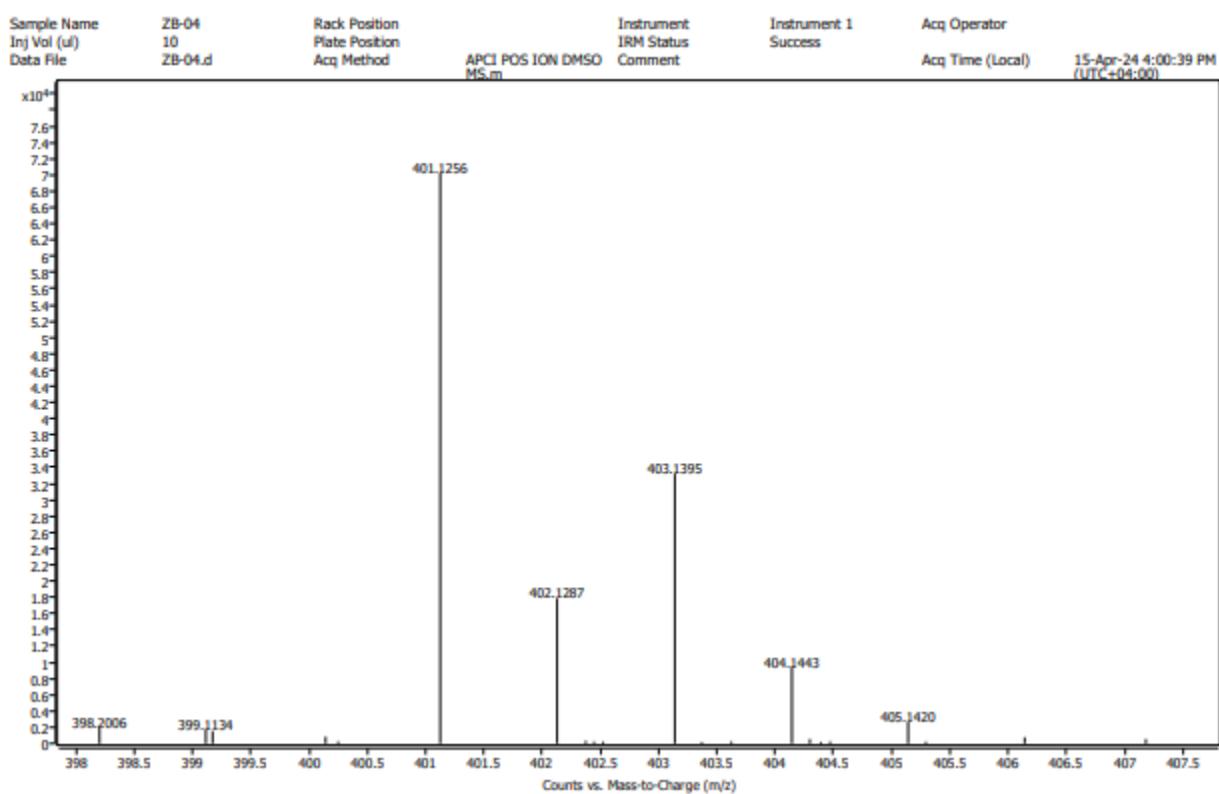
## Mass spectrum of 5b



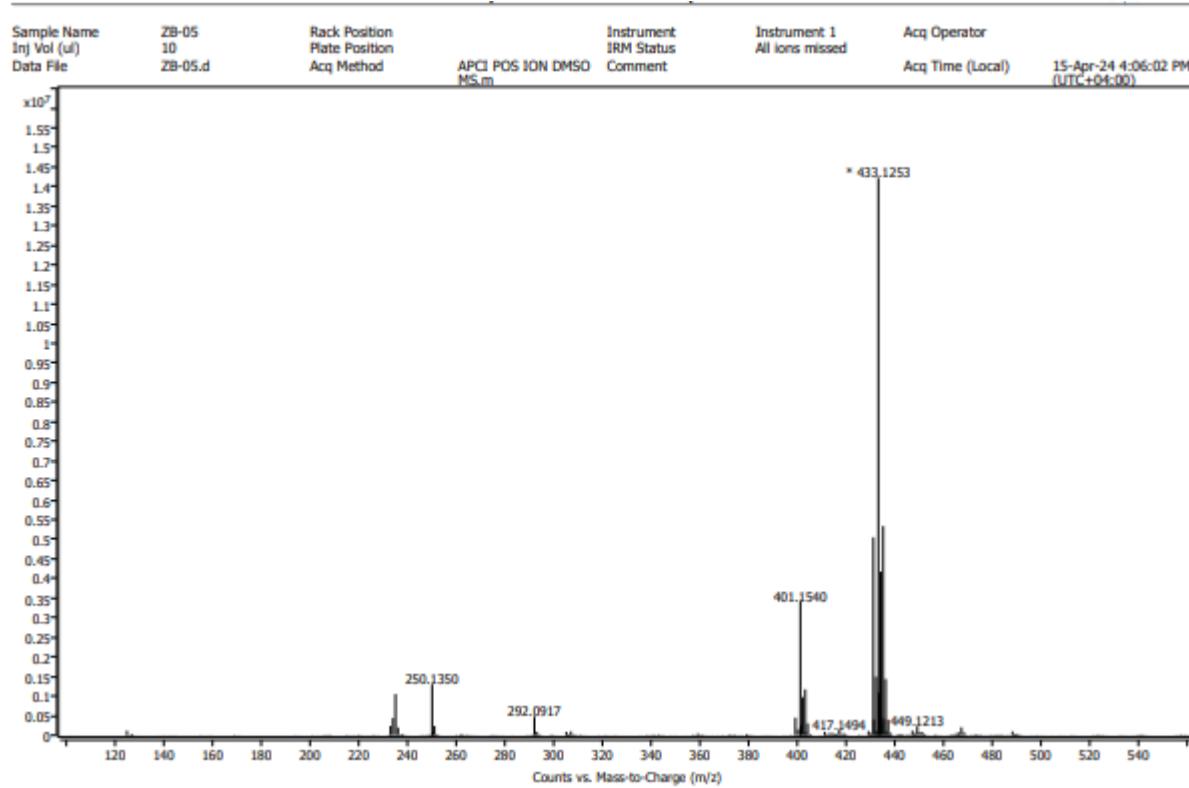
## Mass spectrum of 5c



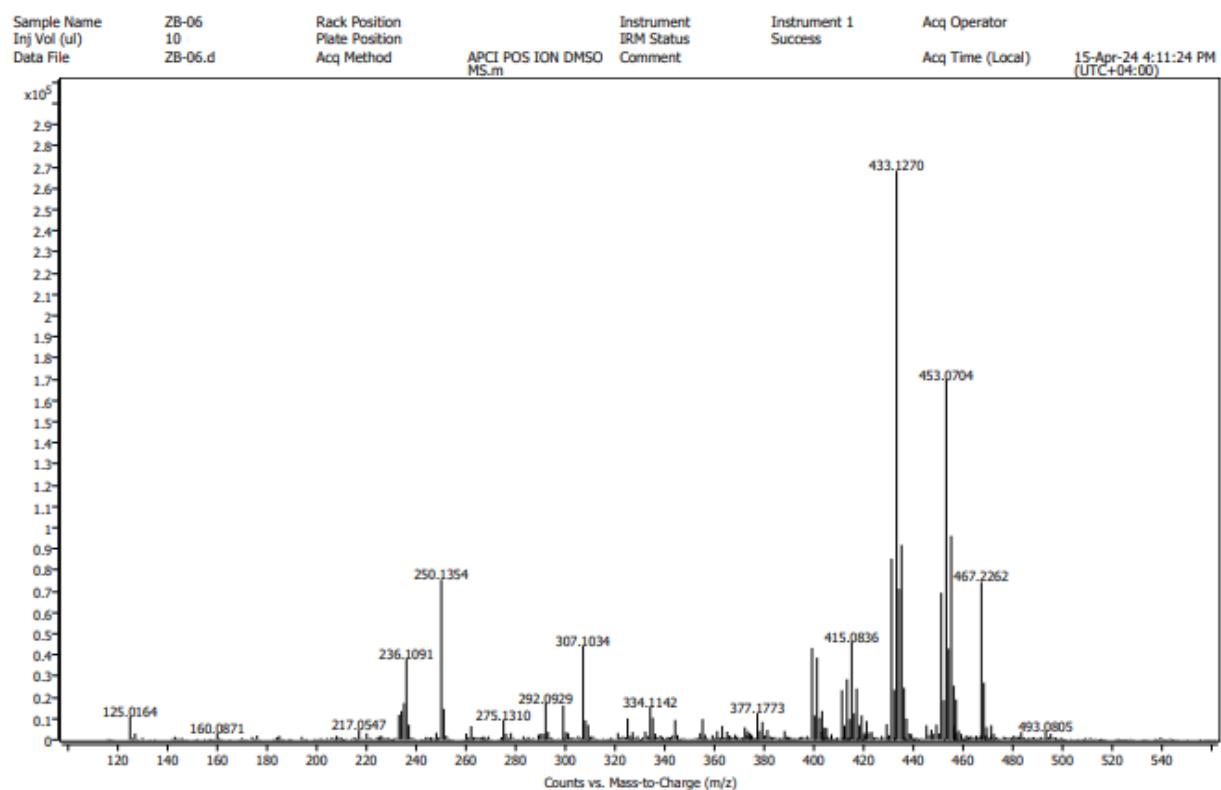
## Mass spectrum of 5d



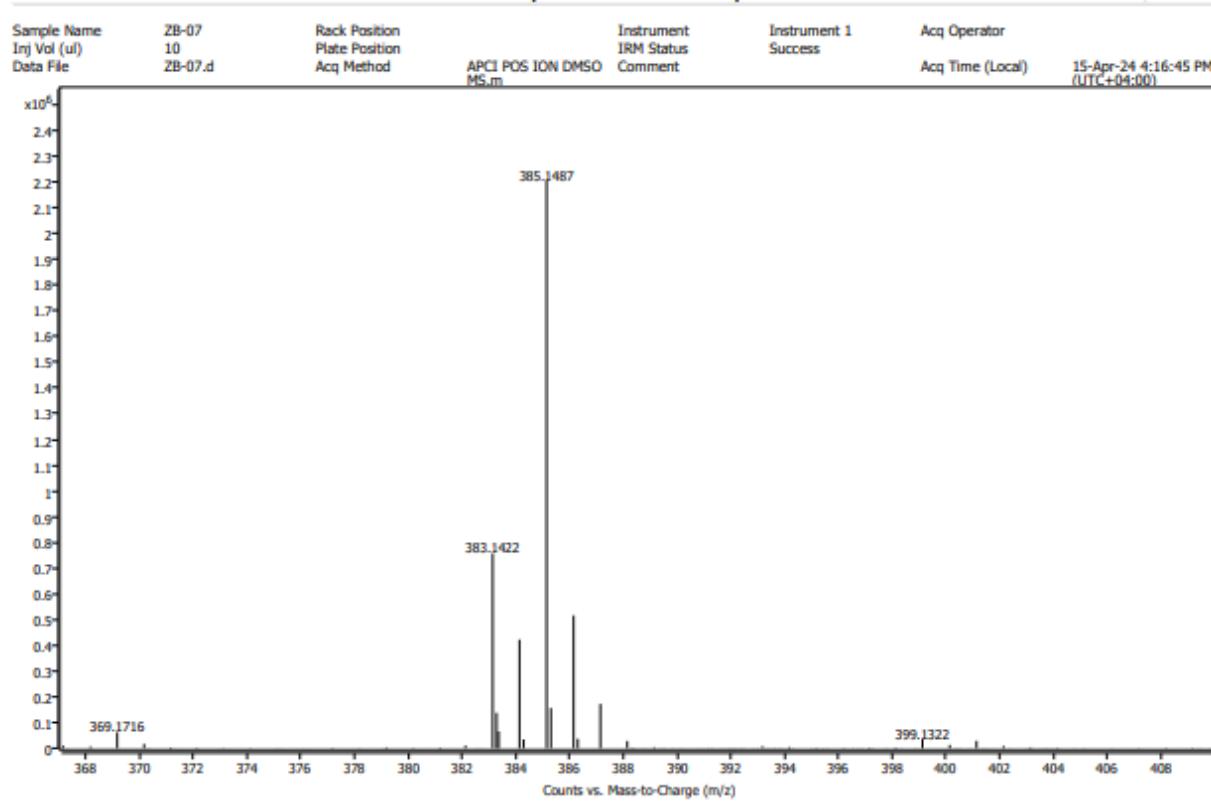
## Mass spectrum of 5e



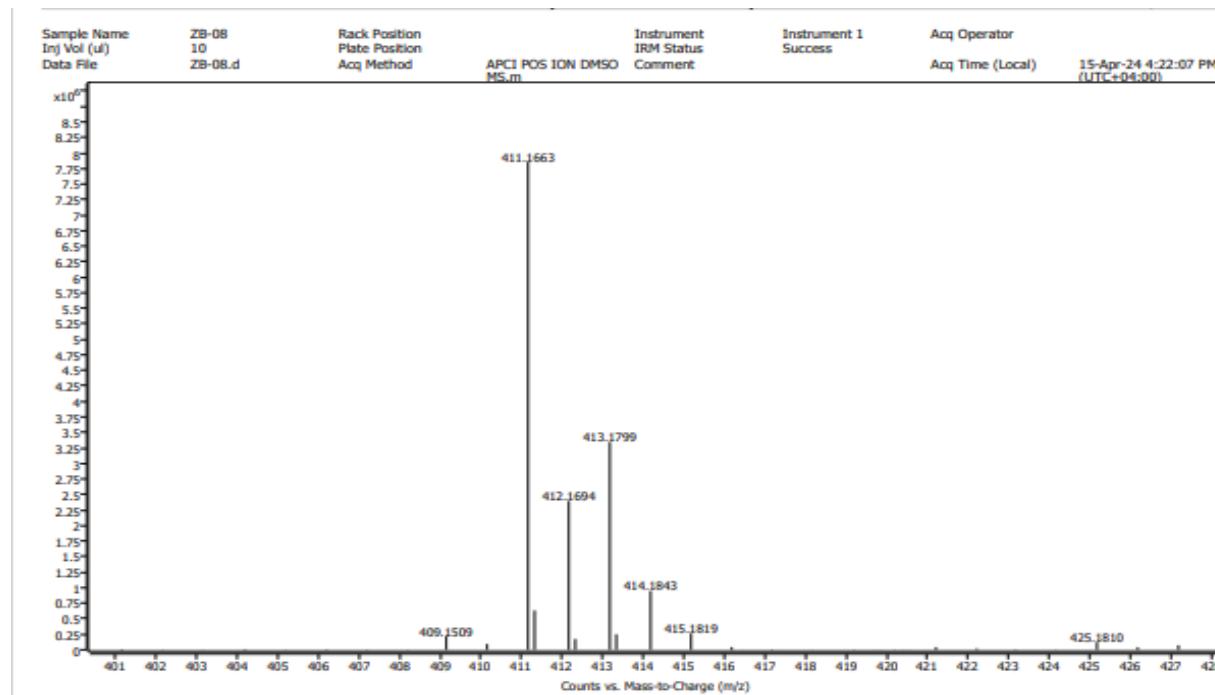
## Mass spectrum of 5f



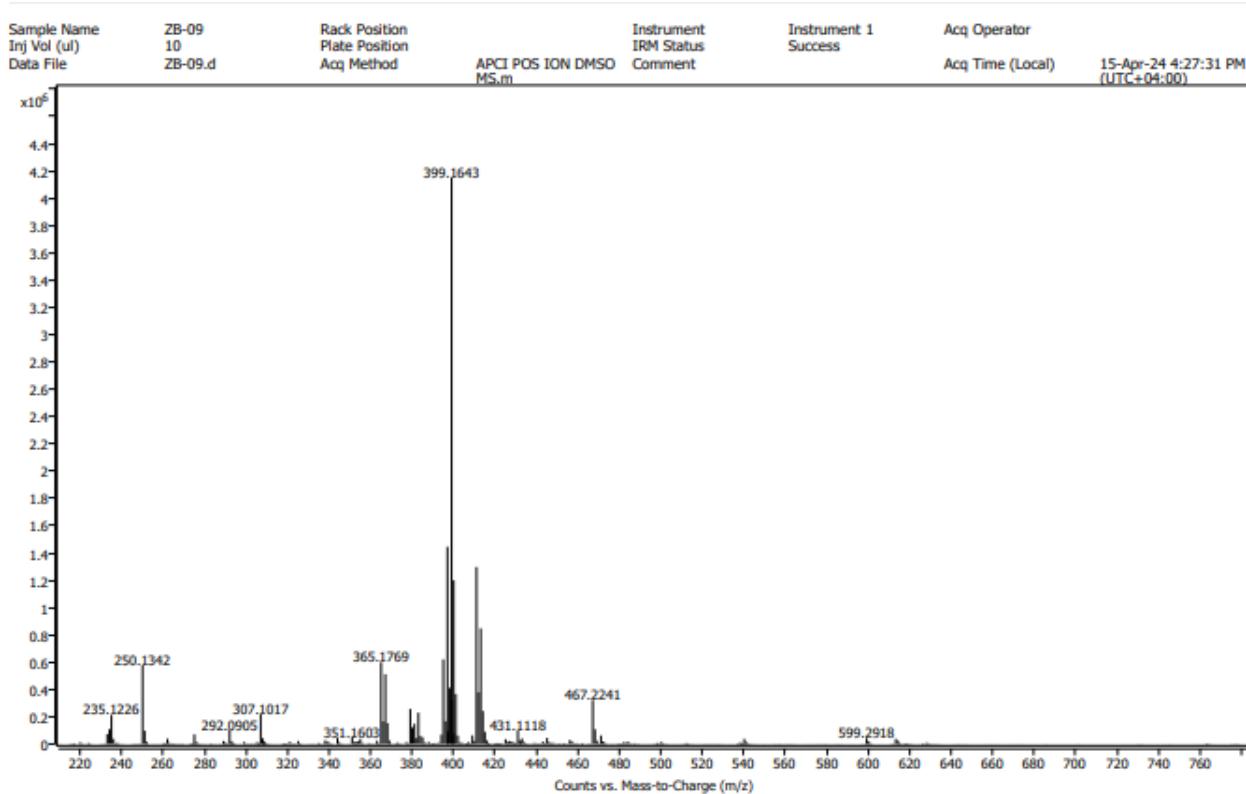
## Mass spectrum of 5g



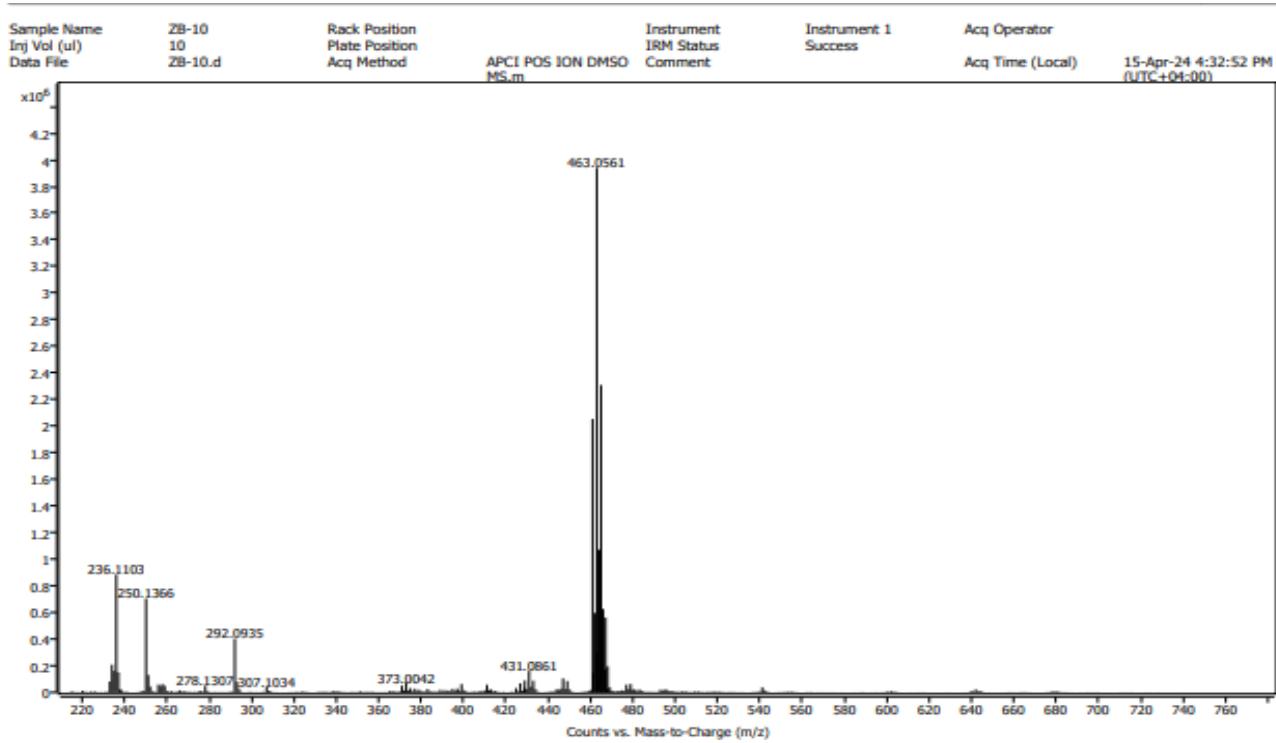
## Mass spectrum of 5h



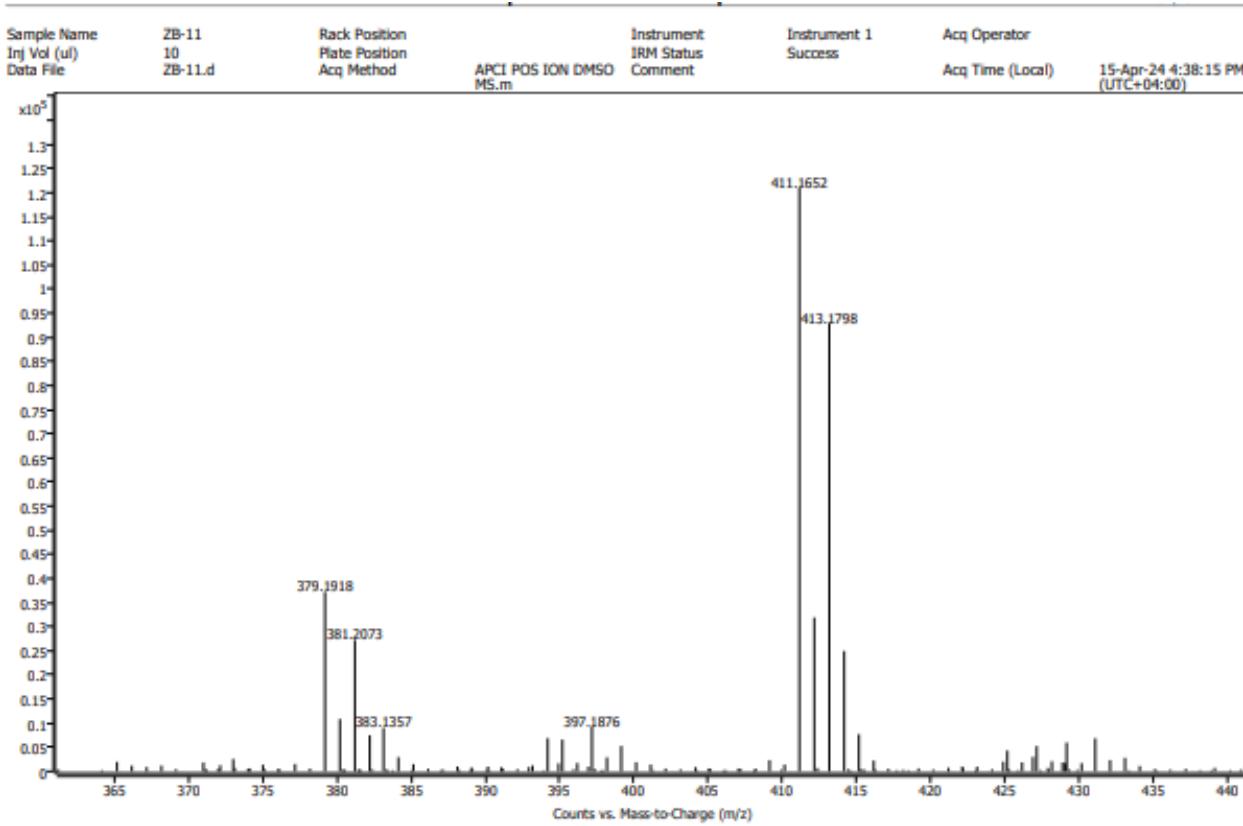
## Mass spectrum of 5i



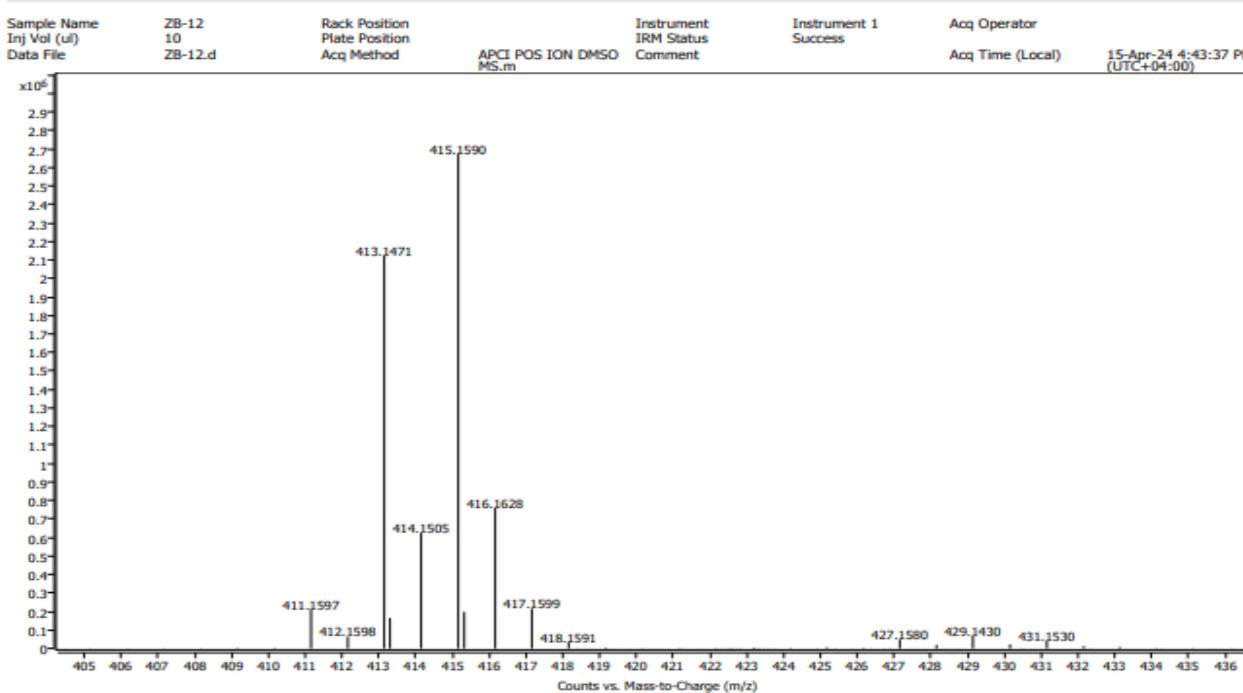
## Mass spectrum of 5j



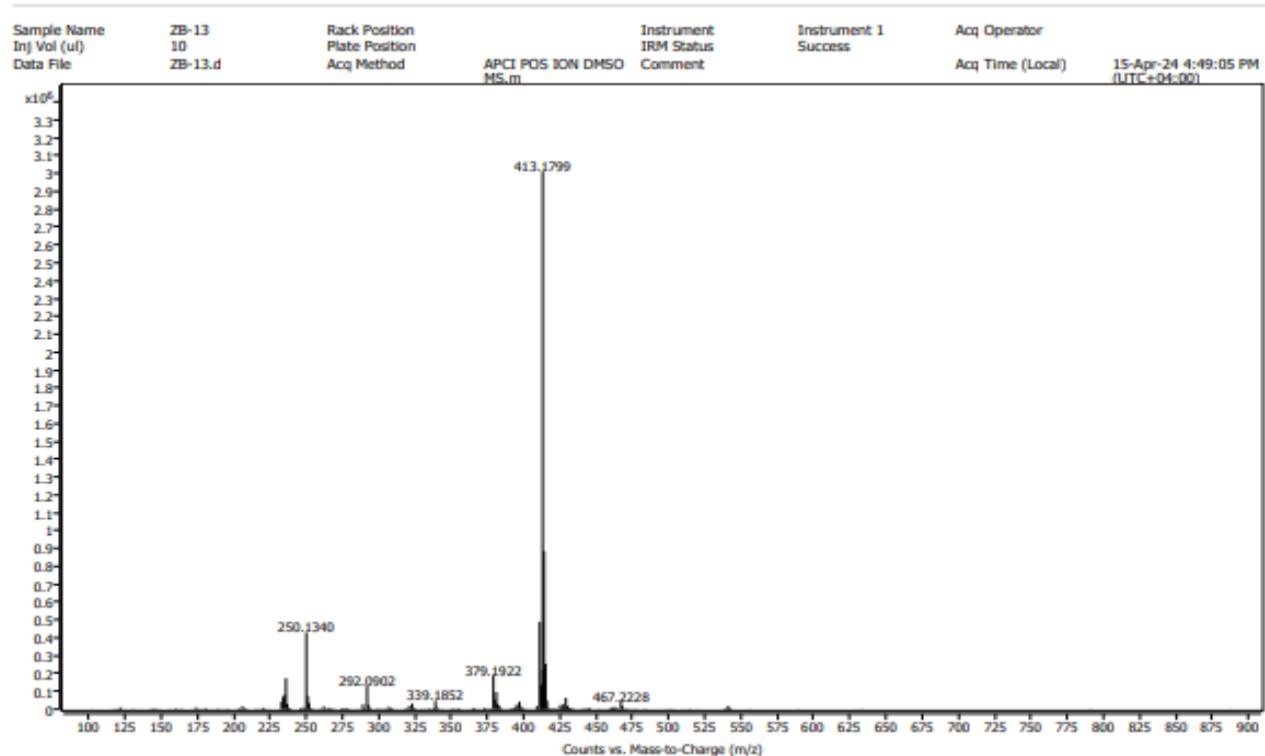
## Mass spectrum of 5k



## Mass spectrum of 5l

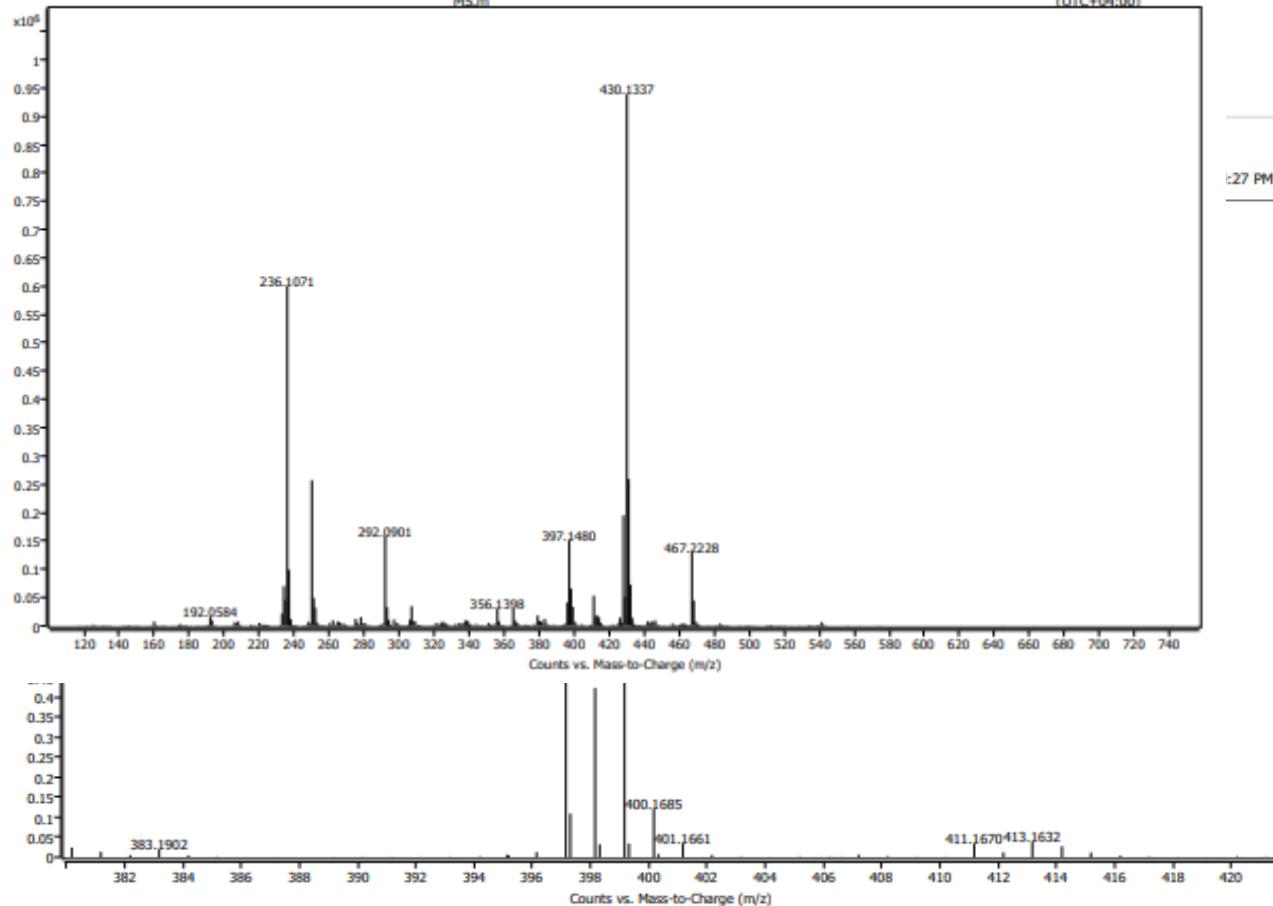


## Mass spectrum of 5m



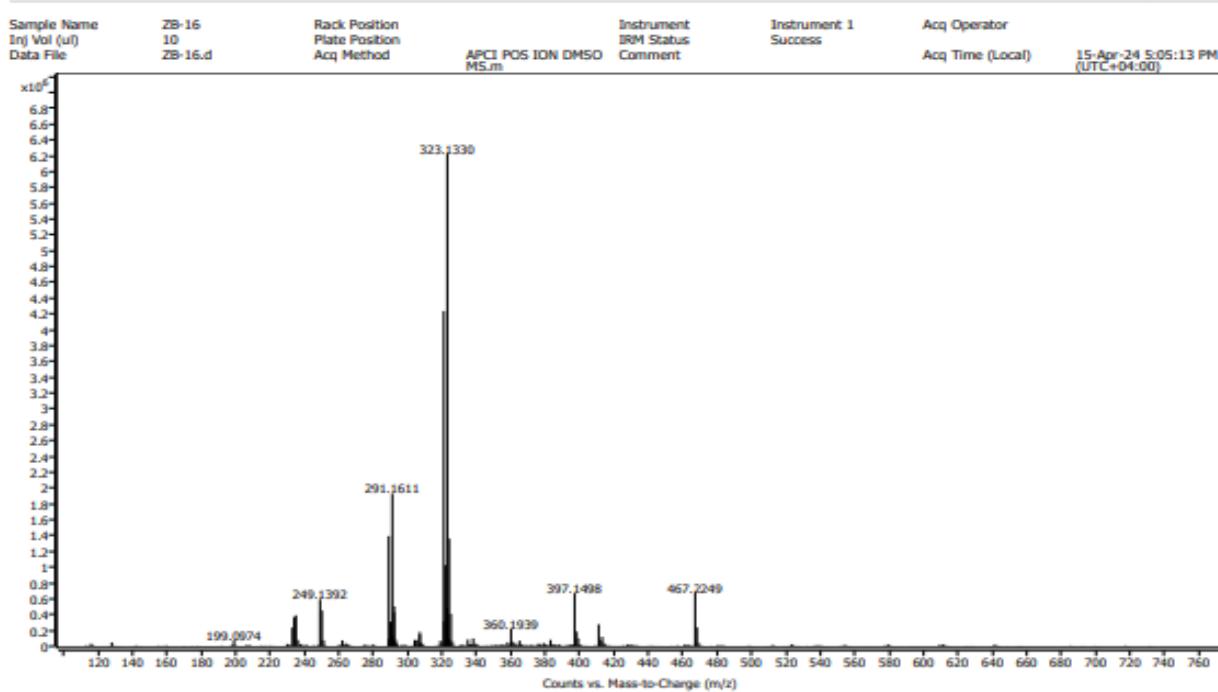
## Mass spectrum of 5n

Sample Name	ZB-15	Rack Position		Instrument	Instrument 1	Acq Operator	
Inj Vol (uL)	10	Plate Position		IRM Status	Success	Acq Time (Local)	
Data File	ZB-15.d	Acq Method	APCI POS ION DMSO	Comment			15-Apr-24 4:59:52 PM (UTC+04:00)

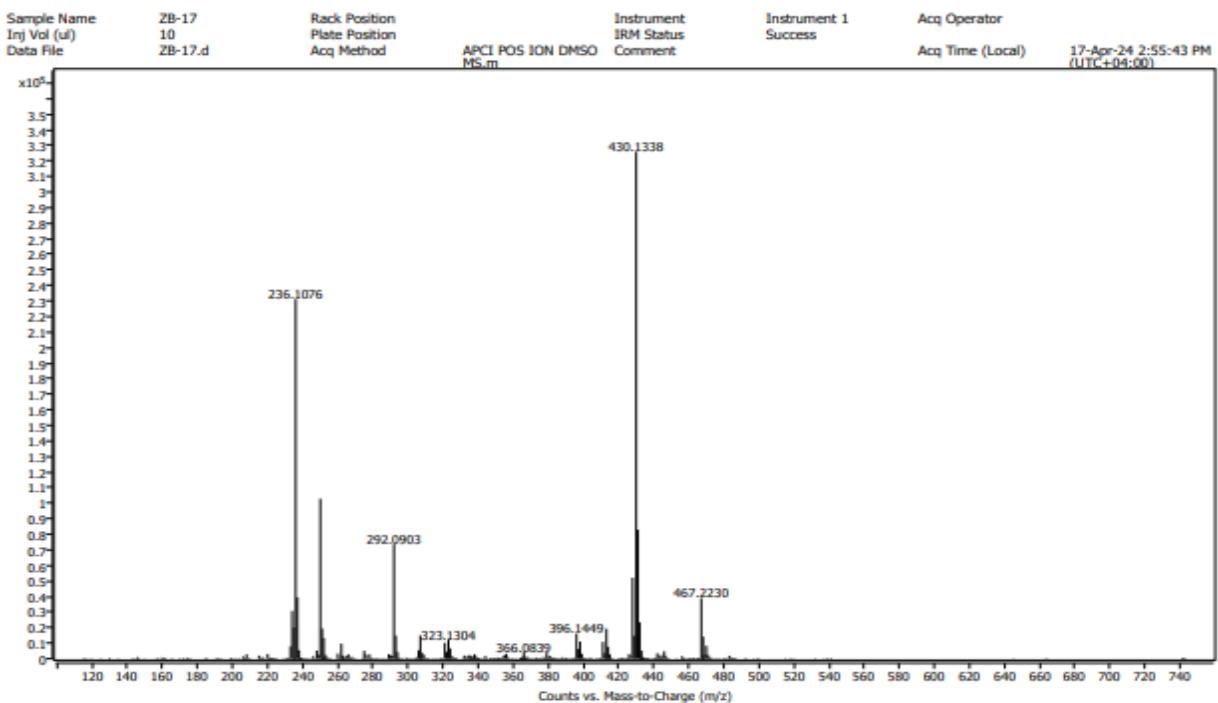


### Mass spectrum of 50

## Mass spectrum of 5p



## Mass spectrum of 5q



## Mass spectrum of 5r

