

# Supplementary Materials: Synthesis, Characterization and Catalytic Hydrogenation Activity of New *N*-Acyl-Benzotriazole Rh(I) and Ru(III) Complexes in [bmim][BF<sub>4</sub>]

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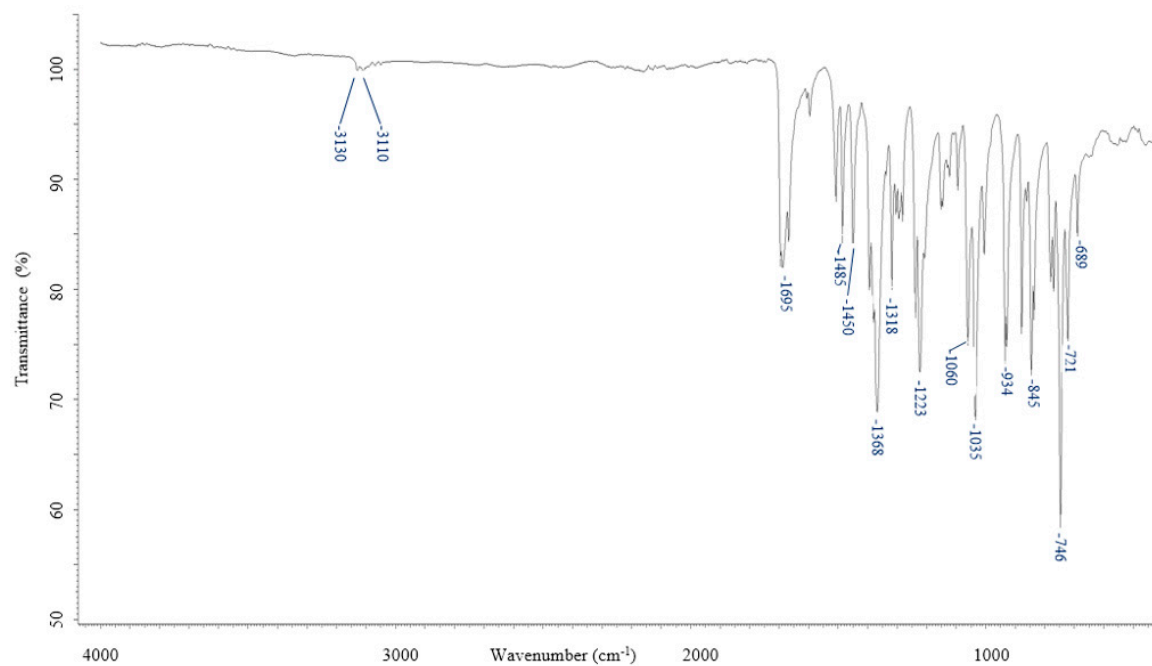


Figure S1. Free ligand FT-IR spectrum.

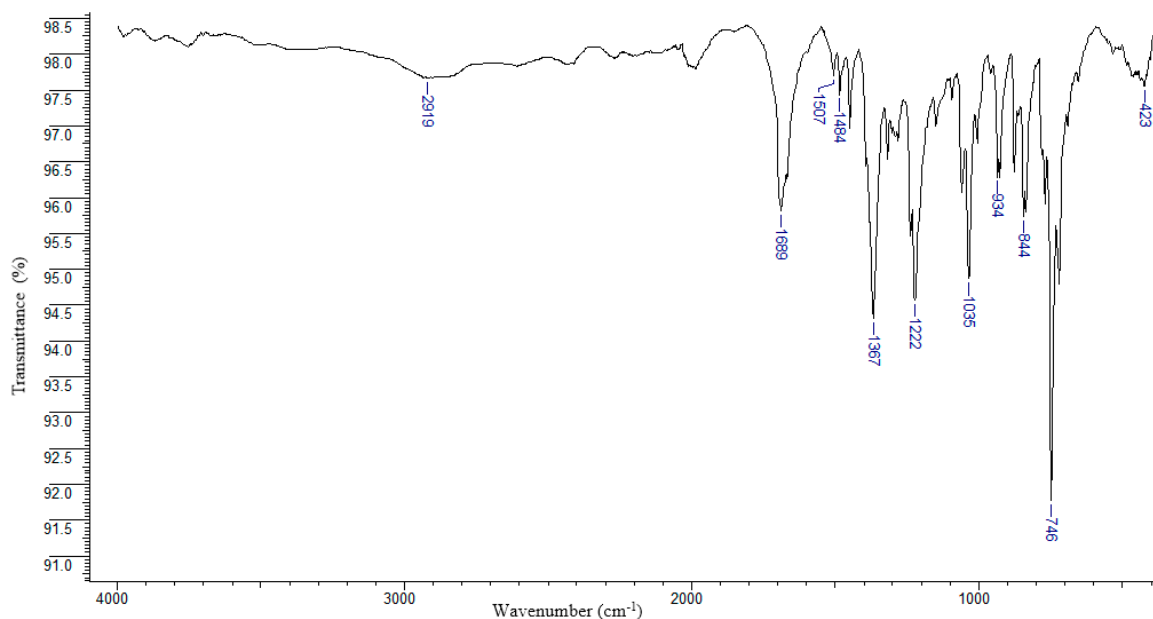


Figure S2. Rh complex FT-IR spectrum.

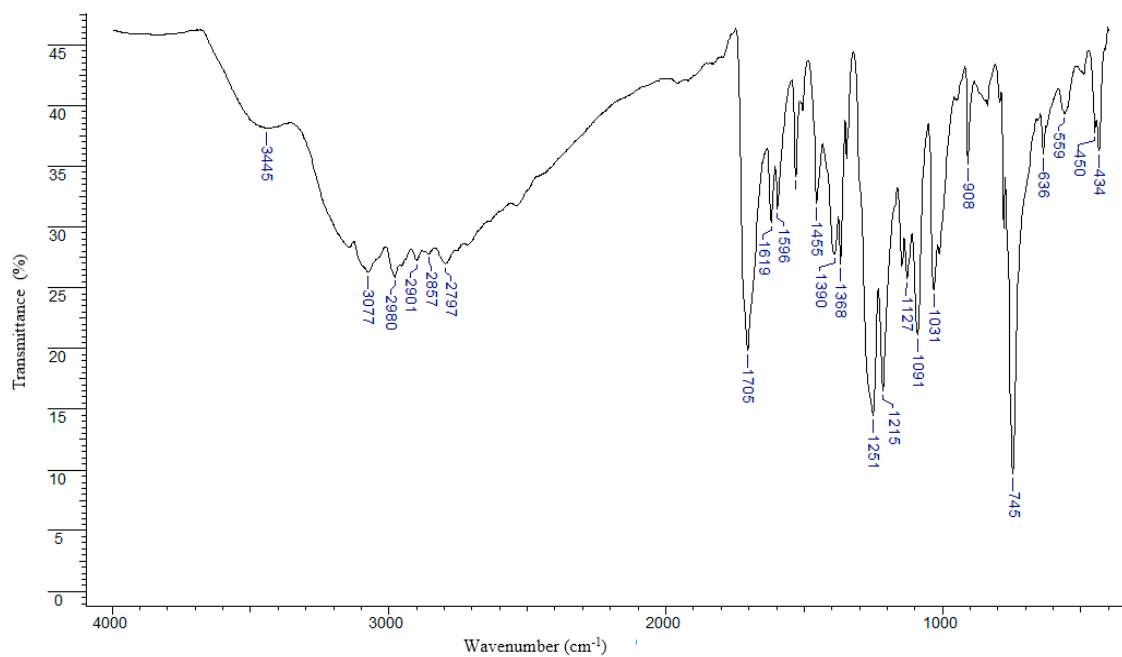
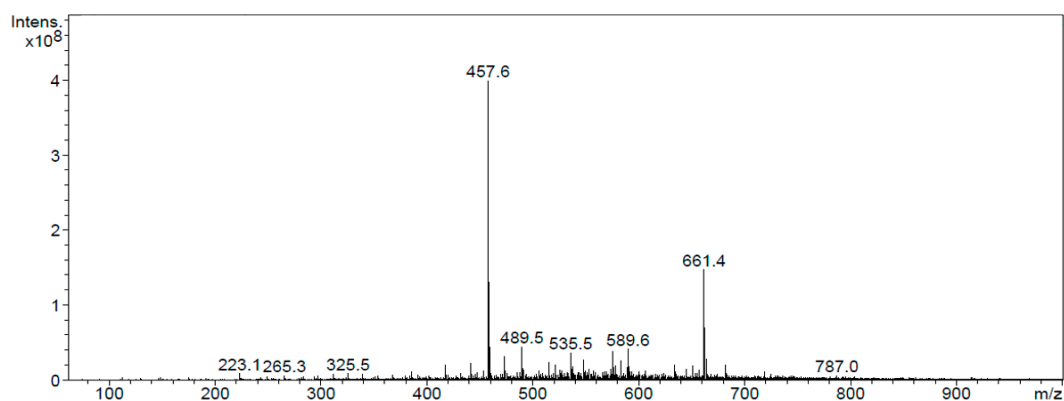


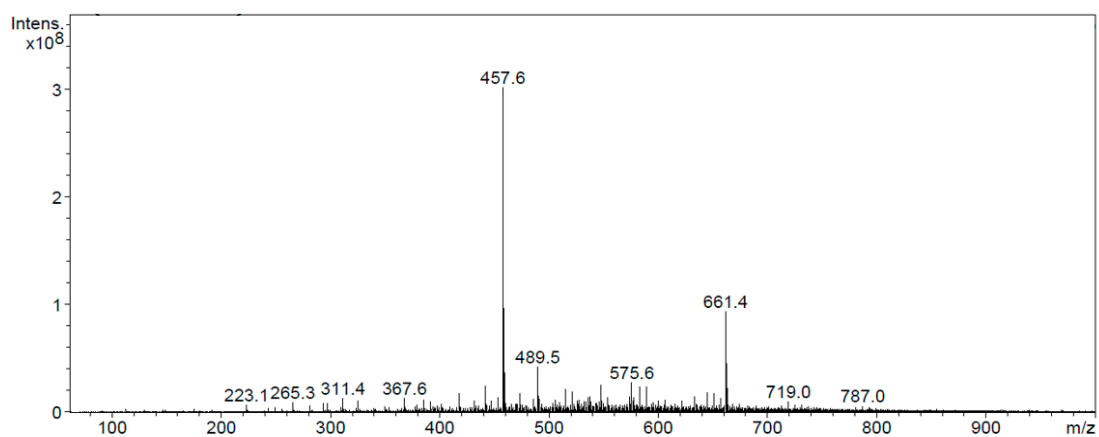
Figure S3. Ru complex FT-IR spectrum.



## MS Peak List:

#	m/z	Res.	FWHM	I	I %	S/N
1	417.6			20361858	5	
2	441.6			22072862	6	
3	457.6			399046144	100	
4	458.6			130765408	33	
5	459.6			43197440	11	
6	473.6			30634086	8	
7	489.5			43414412	11	
8	515.0			22831682	6	
9	521.1			19876744	5	
10	535.5			36153956	9	
11	547.5			26142660	7	
12	575.6			38032792	10	
13	583.0			25410980	6	
14	589.6			41240752	10	
15	633.4			20180780	5	
16	651.0			19043592	5	
17	661.4			146940064	37	
18	662.4			69684016	17	
19	663.4			27346808	7	
20	681.5			19913538	5	

Figure S4. Rh complex LC-MS spectrum.

**MS Peak List:**

#	m/z	Res.	FWHM	I	I %	S/N
1	417.5			17411920	6	
2	441.6			23779538	8	
3	457.6			301853632	100	
4	458.5			96491088	32	
5	459.5			36091928	12	
6	473.5			17351430	6	
7	489.5			41565848	14	
8	490.5			14661652	5	
9	515.0			20729250	7	
10	521.1			14927225	5	
11	521.4			18438390	6	
12	547.5			25129424	8	
13	575.6			27314824	9	
14	583.0			22948488	8	
15	589.1			22961472	8	
16	645.1			18317292	6	
17	651.0			17433216	6	
18	661.4			93168824	31	
19	662.4			44552356	15	
20	663.4			21919978	7	

**Figure S5.** Ru complex LC-MS spectrum.