

Room Temperature Carbon(CO)-Carbon(α) Bond Activation of Ketones by Rhodium(II) Porphyrins with Water

Siu Yin Lee, Shiyu Feng and Kin Shing Chan*

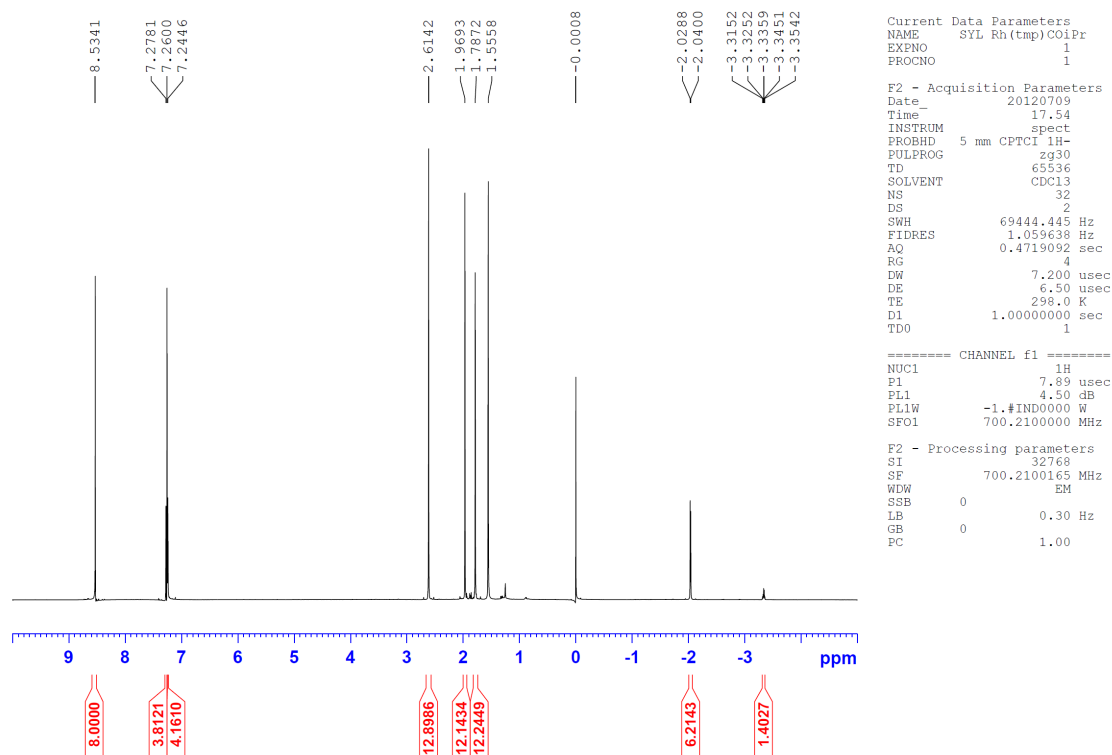
*Department of Chemistry, The Chinese University of Hong Kong, Shatin, New Territories,
Hong Kong, People's Republic of China*

Supporting Information

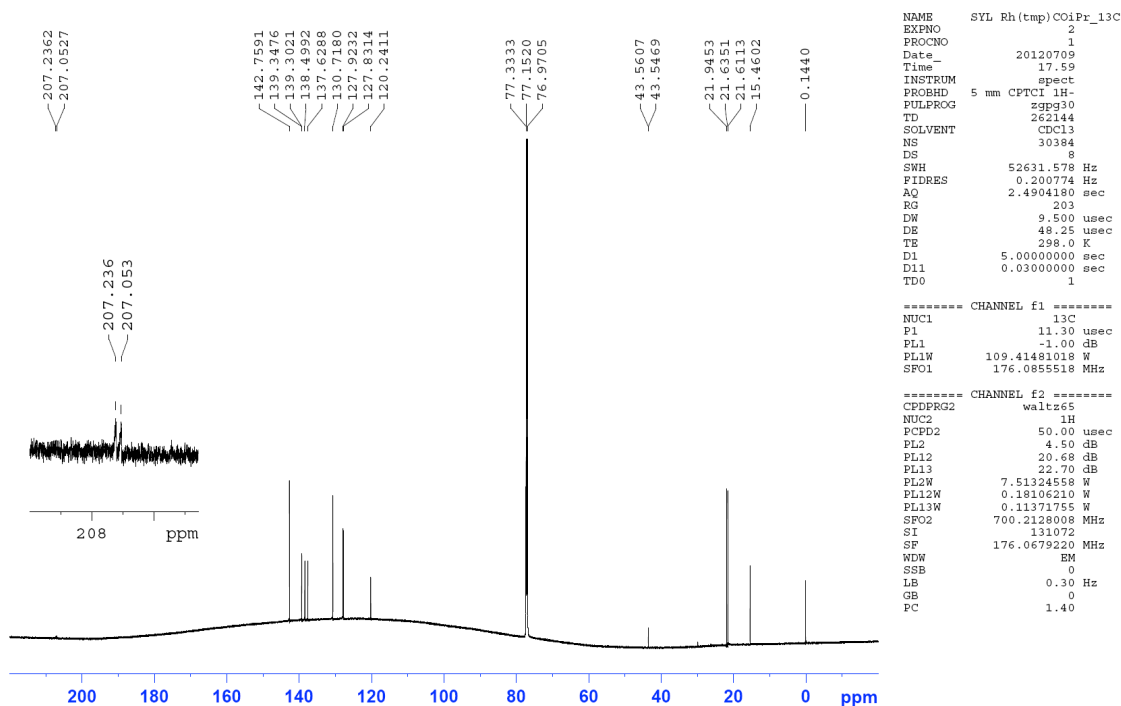
List of Spectra

No.	Spectra	Page
1	^1H NMR of Rh(tmp)(CO ⁱ Pr) (6a)	S2
2	$^{13}\text{C}\{^1\text{H}\}$ NMR of Rh(tmp)(CO ⁱ Pr) (6a)	S2
3	^1H NMR of Rh(tmp)(COPh) (6b)	S3
4	$^{13}\text{C}\{^1\text{H}\}$ NMR of Rh(tmp)(COPh) (6b)	S3
5	^1H NMR of Rh(tmp)(COMe) (6c)	S4
6	$^{13}\text{C}\{^1\text{H}\}$ NMR of Rh(tmp)(COMe) (6c)	S4
7	^1H NMR of Rh(tmp)[COCH(Me)(CH ₂) ₃ COMe] (6d)	S5
8	$^{13}\text{C}\{^1\text{H}\}$ NMR of Rh(tmp)[COCH(Me)(CH ₂) ₃ COMe] (6d)	S5
9	^1H NMR of Rh(tmp)[CO(CH ₂) ₄ COMe] (6e)	S6
10	$^{13}\text{C}\{^1\text{H}\}$ NMR of Rh(tmp)[CO(CH ₂) ₄ COMe] (6e)	S6
11	^1H NMR of (PPh ₃)Rh(tmp)OH (7)	S7
12	Mass Spectra of (PPh ₃)Rh(tmp)OH (7)	S8

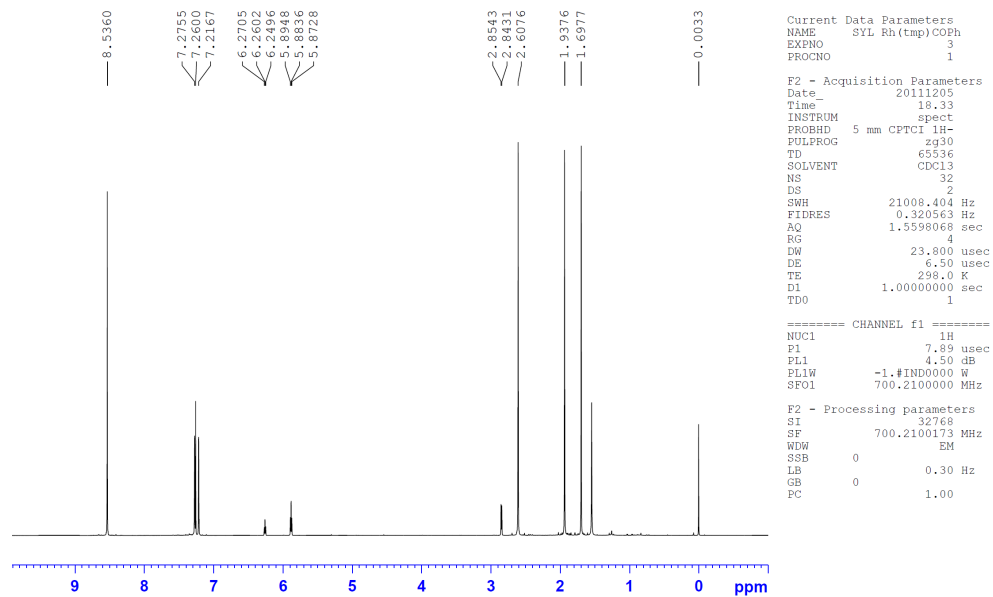
¹H NMR of Rh(tmp)(COⁱPr) (6a)



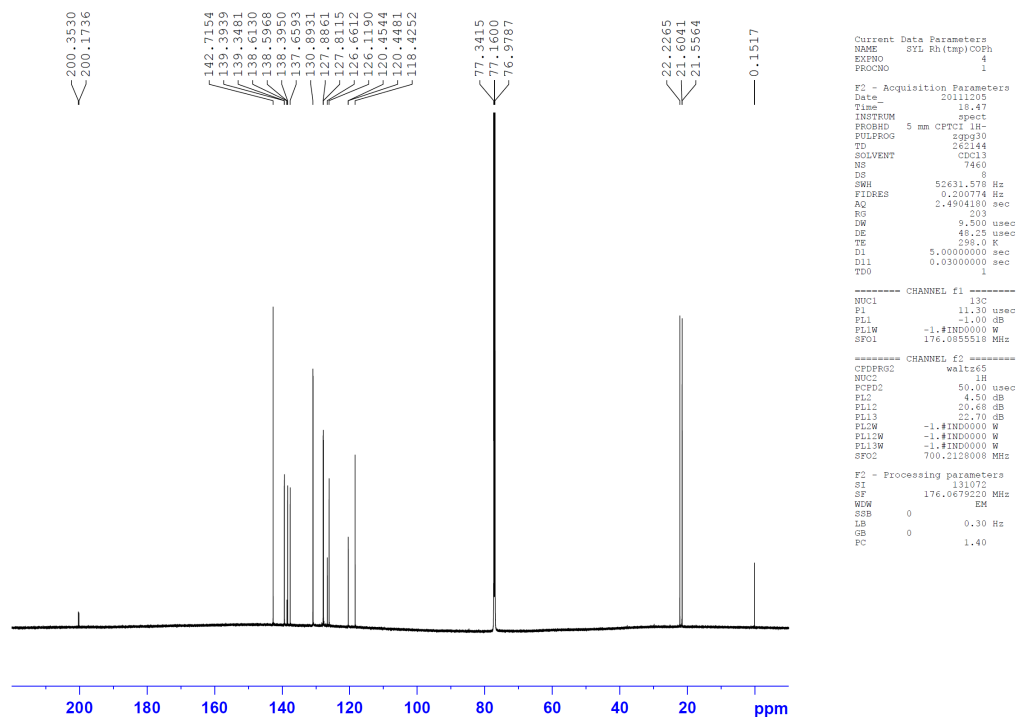
¹³C{¹H} NMR of Rh(tmp)(COⁱPr) (6a)



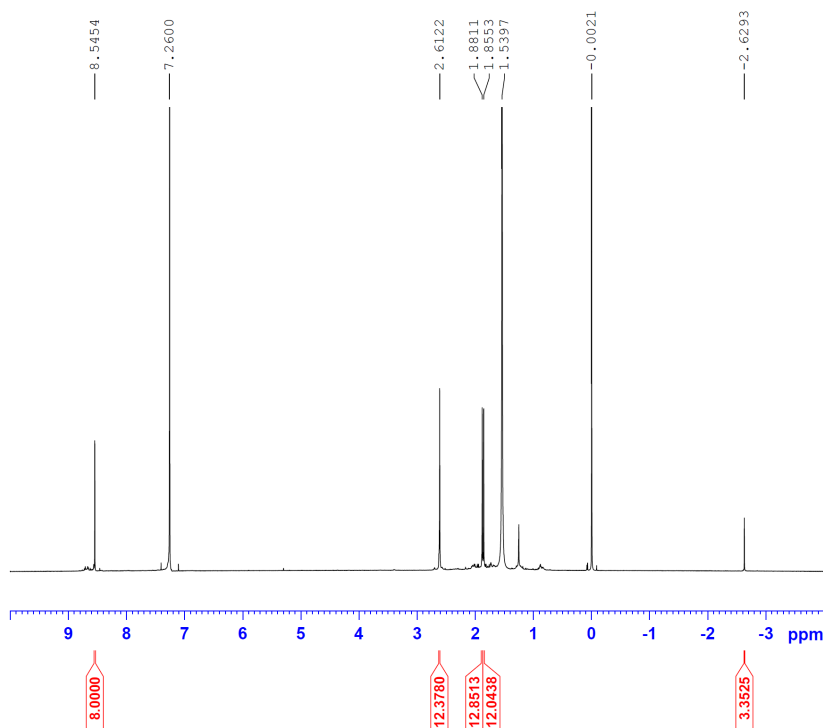
¹H NMR of Rh(tmp)(COPh) (6b)



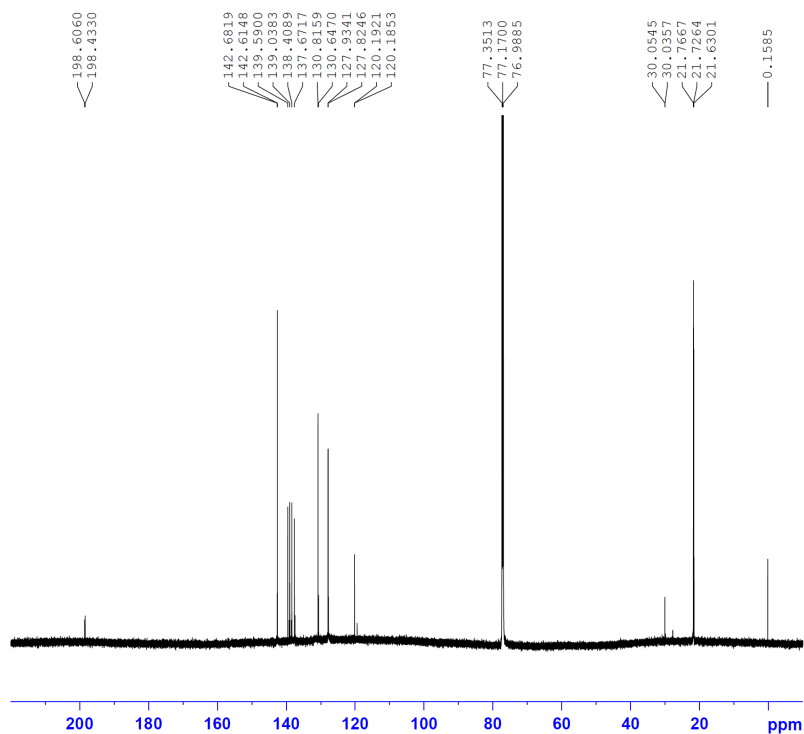
¹³C{¹H} NMR of Rh(tmp)(COPh) (6b)



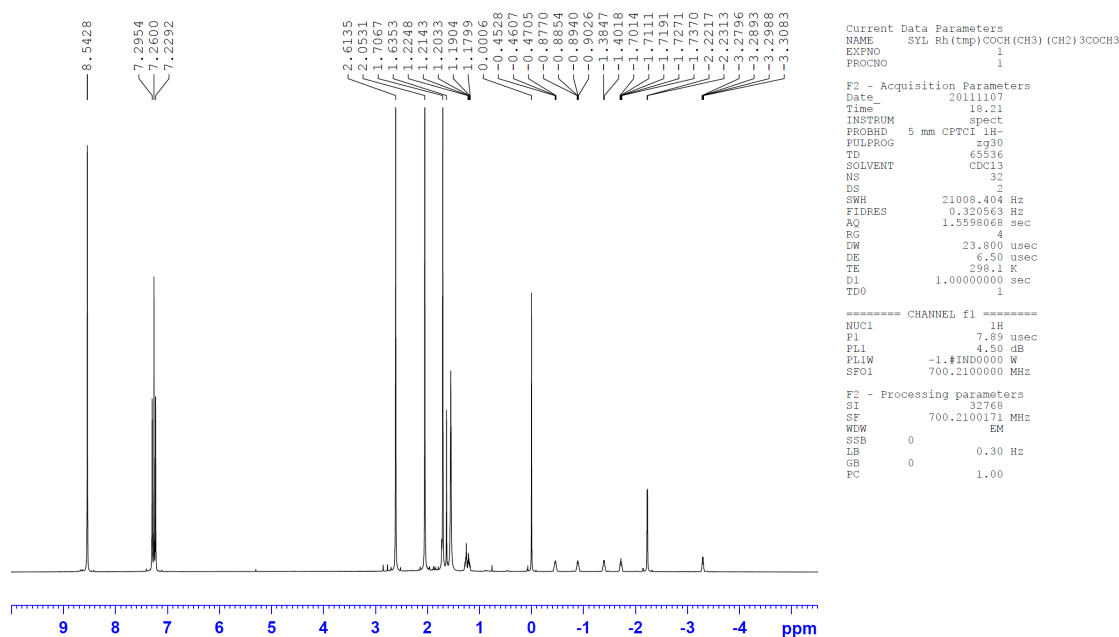
¹H NMR of Rh(tmp)(COMe) (6c)



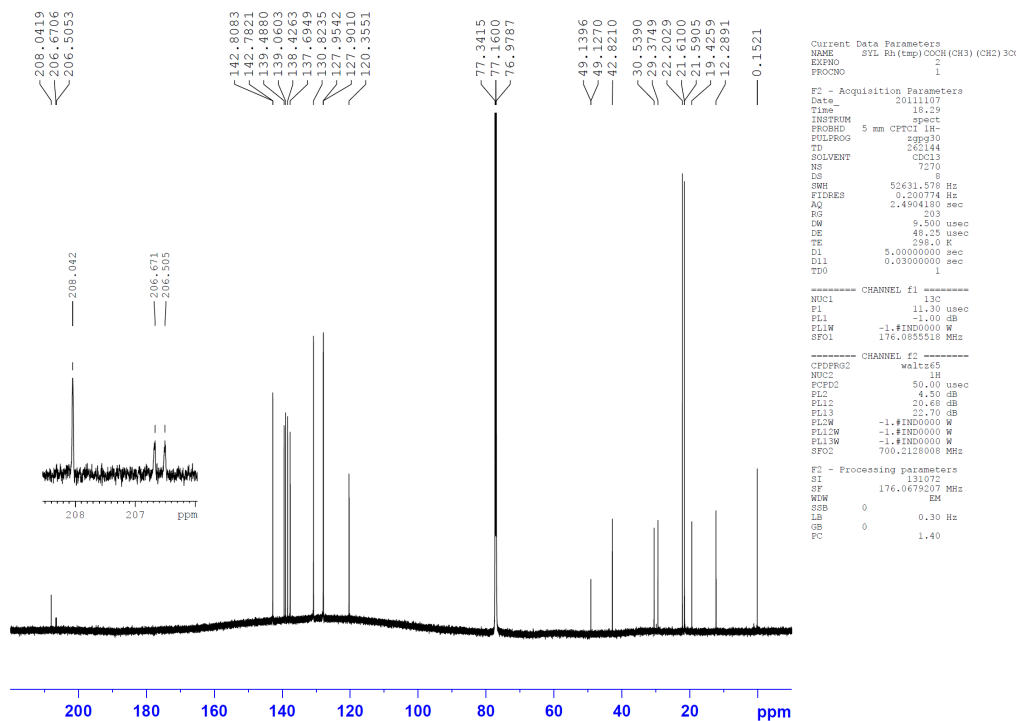
¹³C{¹H} NMR of Rh(tmp)(COMe) (6c)



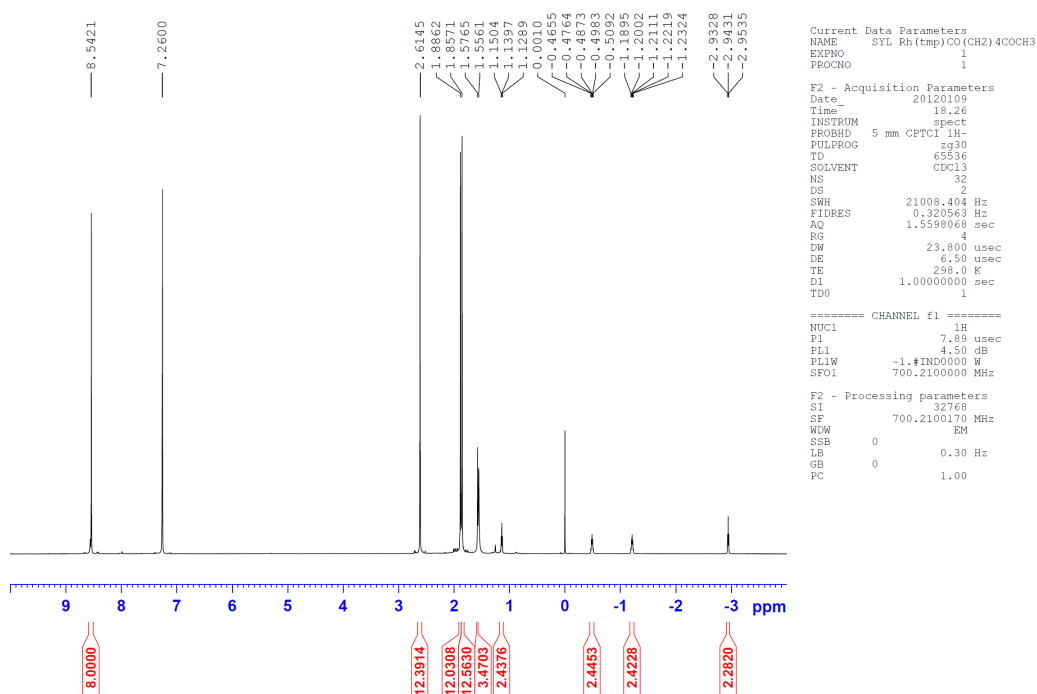
¹H NMR of Rh(tmp)[COCH(Me)(CH₂)₃COMe] (6d)



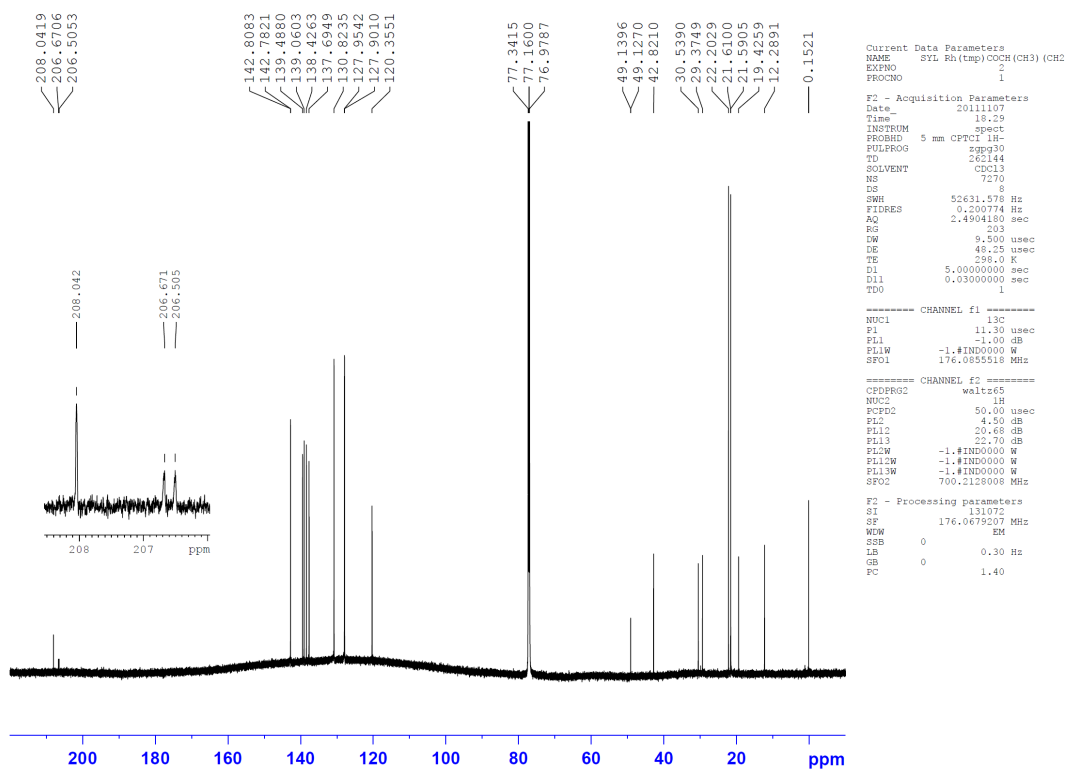
¹³C{¹H} NMR of Rh(tmp)[COCH(Me)(CH₂)₃COMe] (6d)



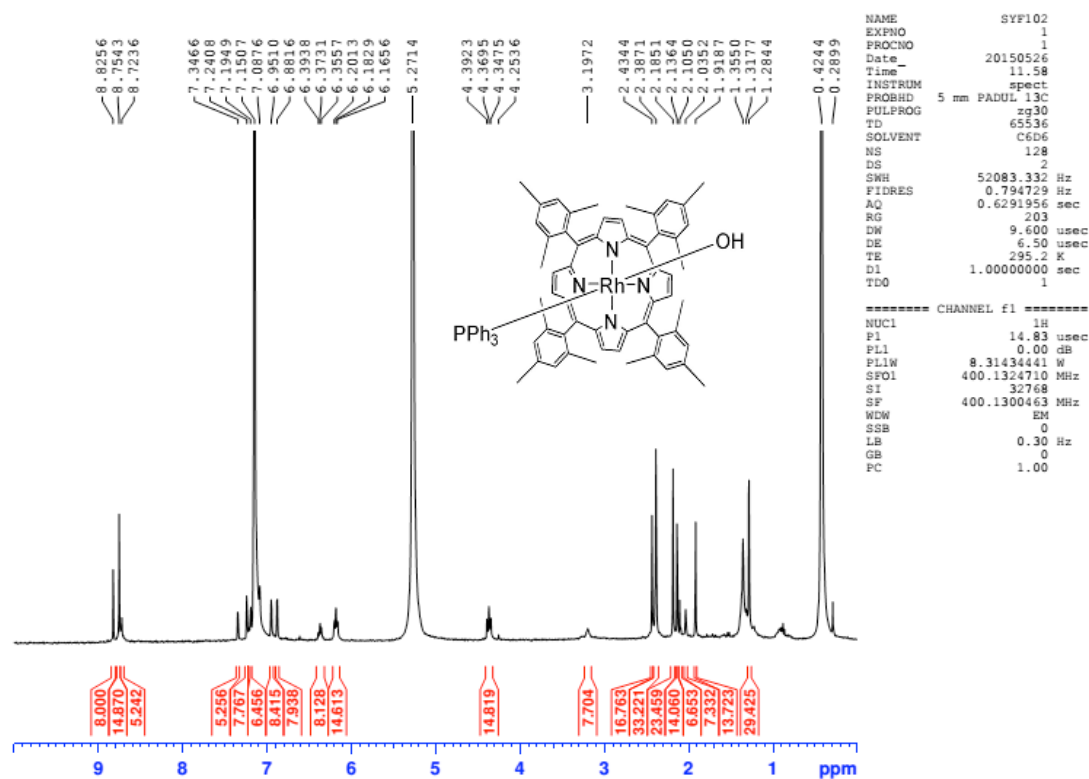
¹H NMR of Rh(tmp)[CO(CH₂)₄COMe] (6e)



¹³C{¹H} NMR of Rh(tmp)[CO(CH₂)₄COMe] (6e)

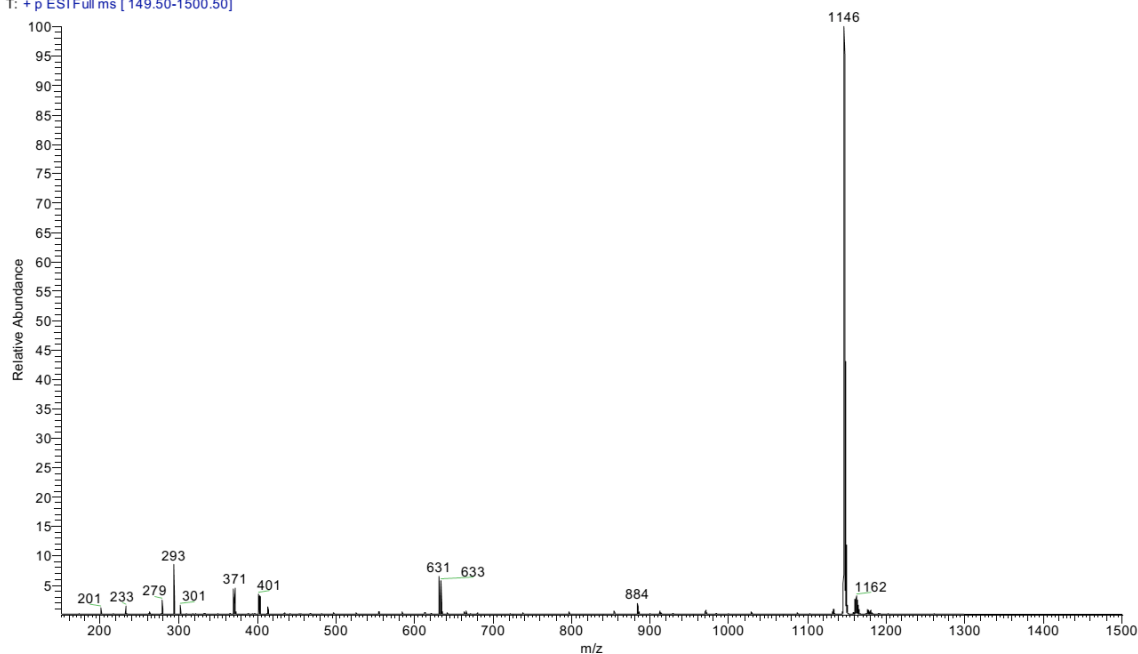


¹H NMR of (PPh₃)Rh(tmp)OH (7)

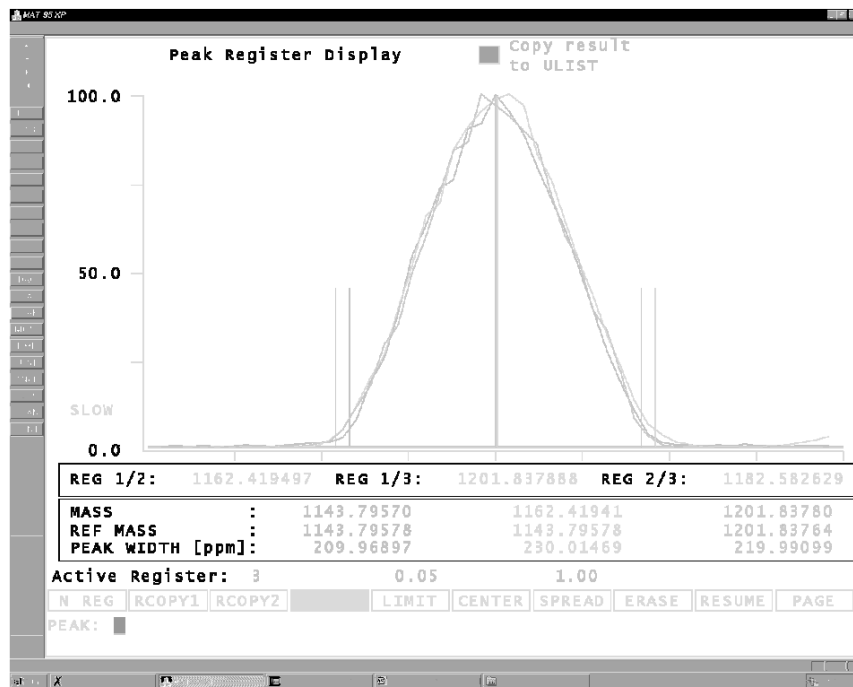


Mass Spectra of (PPh₃)Rh(tmp)OH (7)

D:\MS_raw_data\ksc1348_150615162946 06/15/15 04:29:46 PM SYF102-Rh(tmp)OH
 ESI pos, 3kV, 15uL/min, w/ sheath gas, unknown conc.
 ksc1348_150615162946 #1-3 RT: 0.14-0.31 AV: 3 SM: 5G NL: 3.67E6
 T: + p ESI Full ms [149.50-1500.50]



Accurate Mass Measurement



Molecular formula
 $C_{74}H_{68}N_4OPRh$
 $[M]^+$ (theoretical)
 = 1162.4180