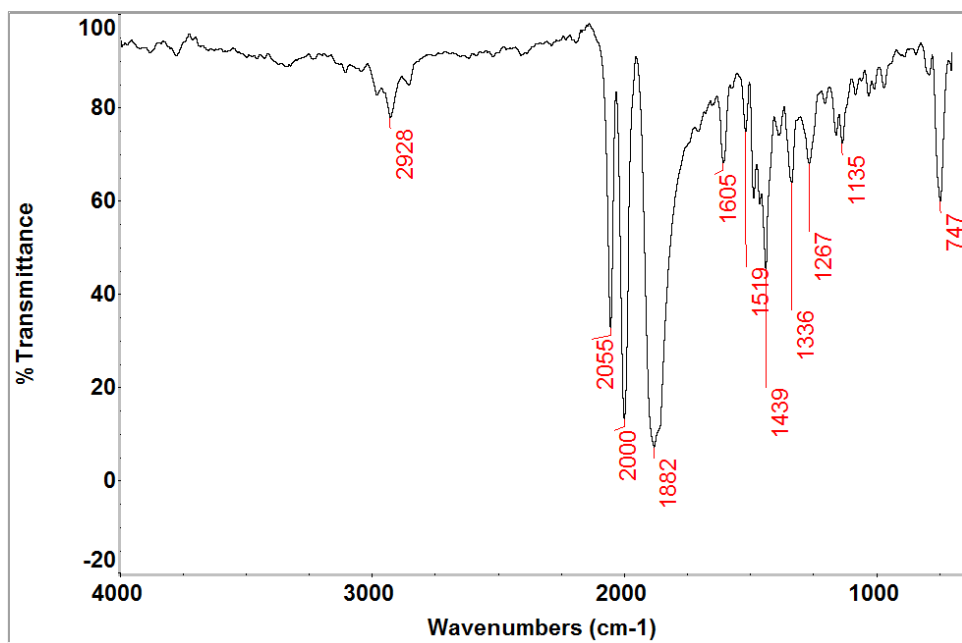
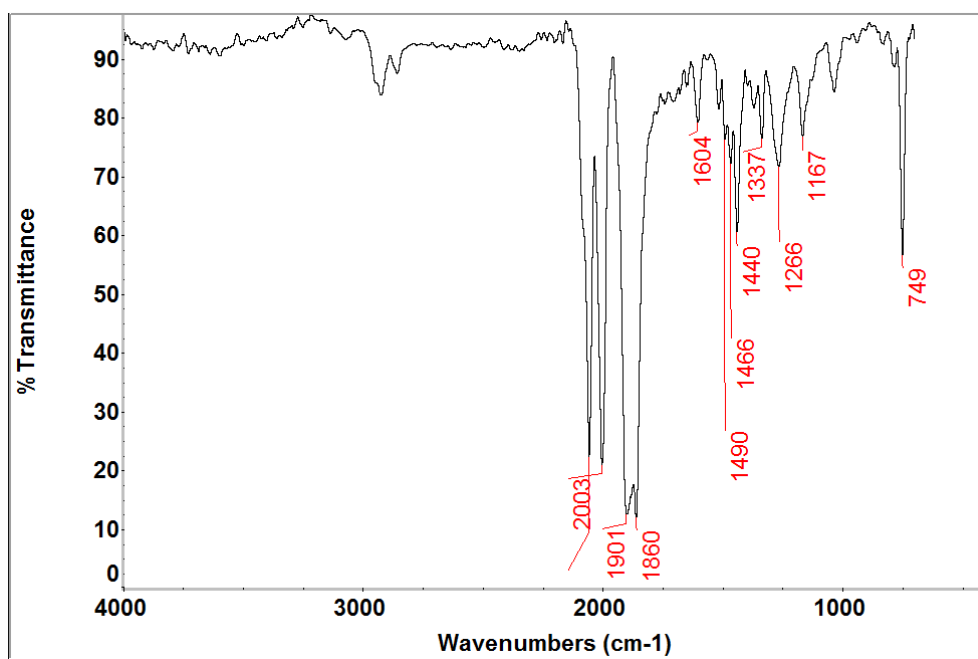


Supporting information

Fig. S1	AT IR spectra of the Re(I) azide complexes, a) 2 and b) 5 .	S2
Fig. S2	NMR analysis of 2 in DMSO-d ₆ , a) ¹ H, and b) ¹³ C spectra.	S3
Fig. S3	NMR analysis of 5 in DMSO-d ₆ , a) ¹ H, and b) ¹³ C spectra.	S4
Fig. S4	AT IR spectra of the Re(I) azide complexes, a) 3 and b) 6 .	S5
Fig. S5	NMR analysis of 3 in DMSO-d ₆ , a) ¹ H, and b) ¹³ C spectra.	S6
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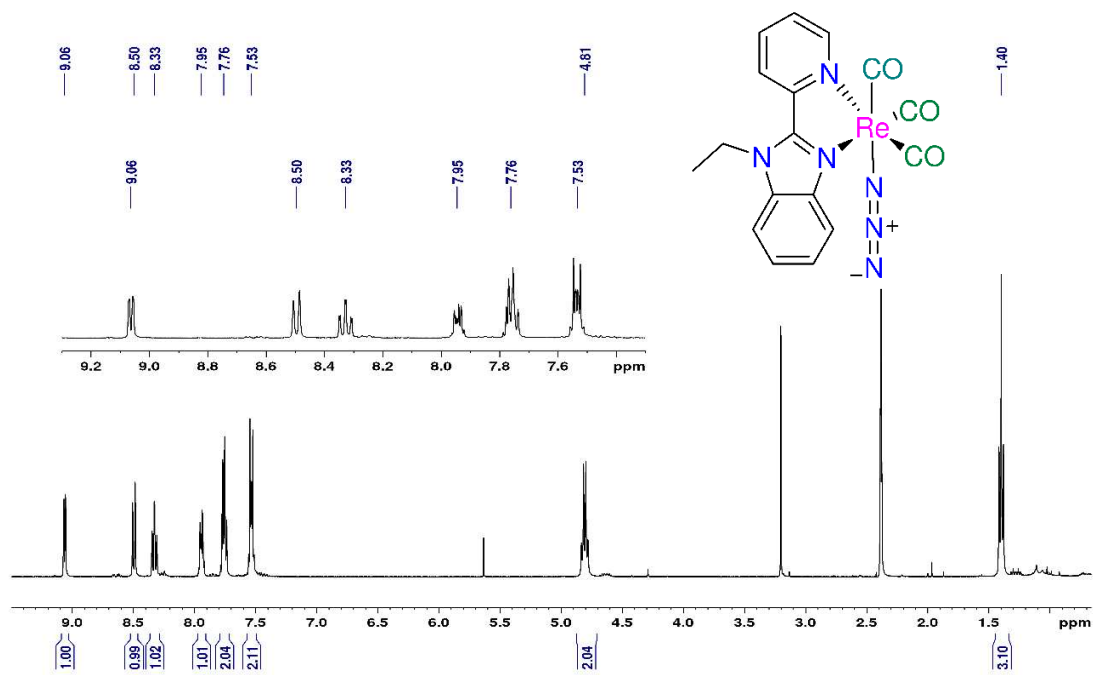


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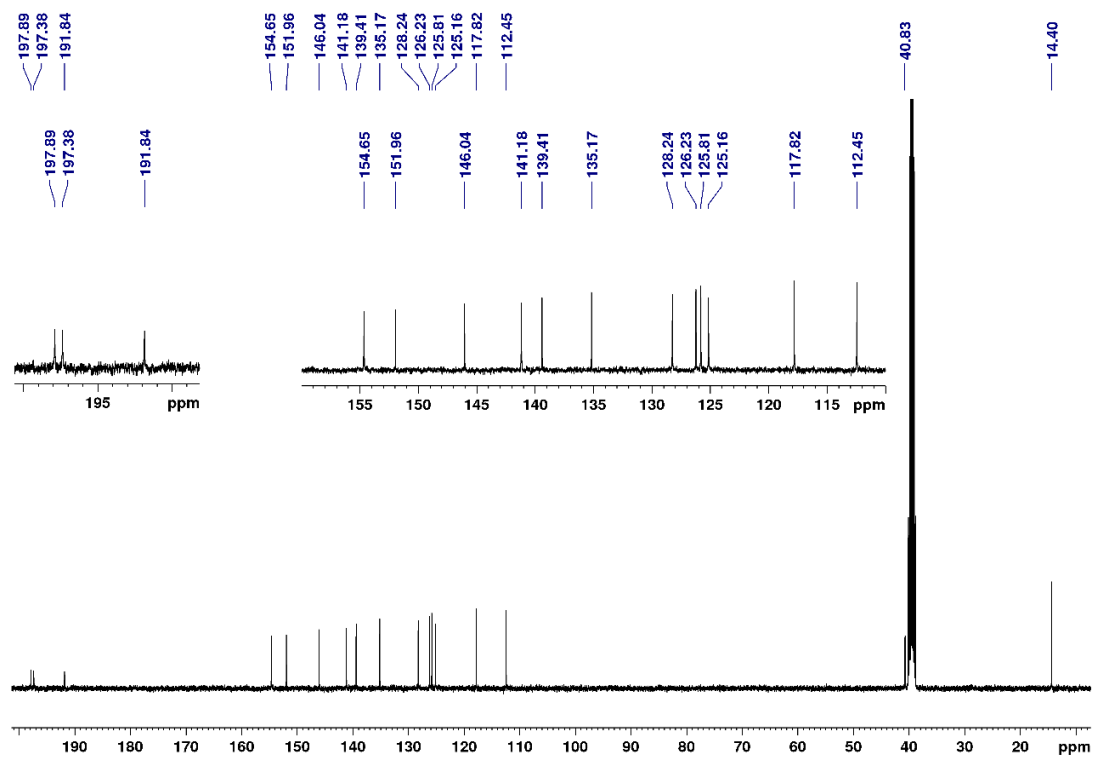


b)

Fig. S1 AT IR spectra of the Re(I) azide complexes, a) **2** and b) **5**.

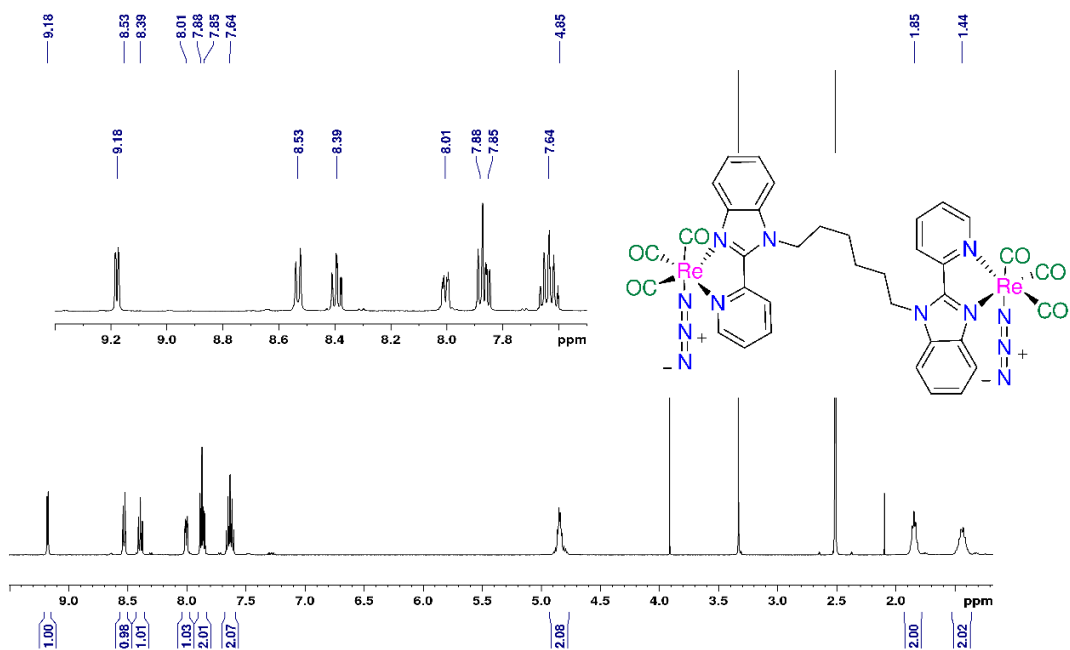


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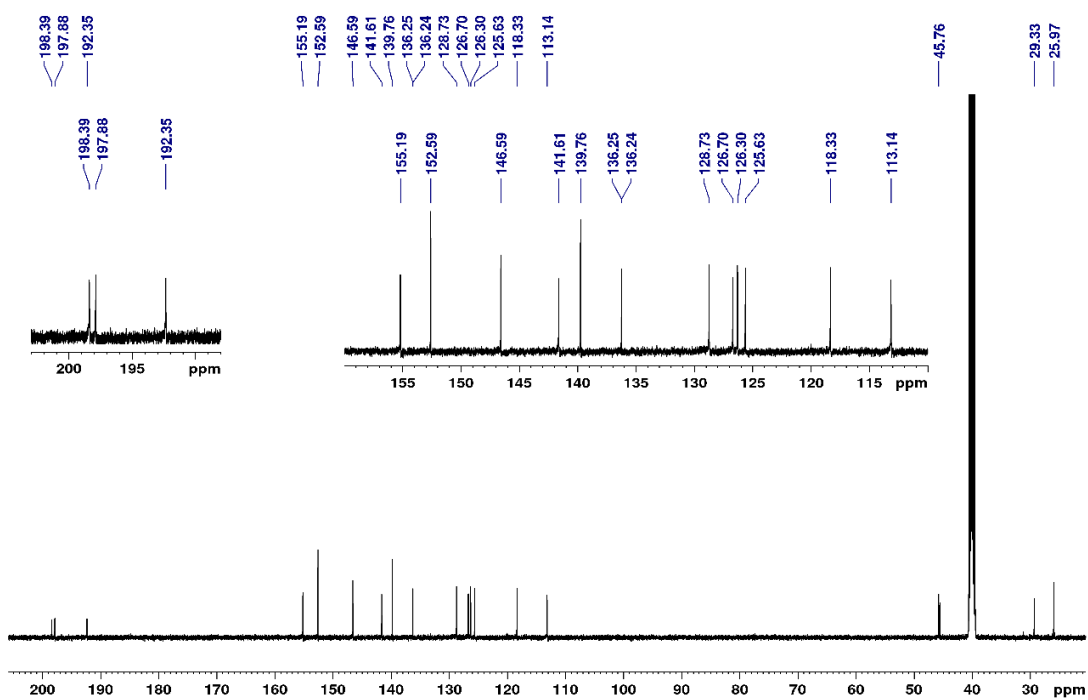


b)

Fig. S2 NMR analysis of **2** in DMSO-d₆, a) ¹H, and b) ¹³C spectra.

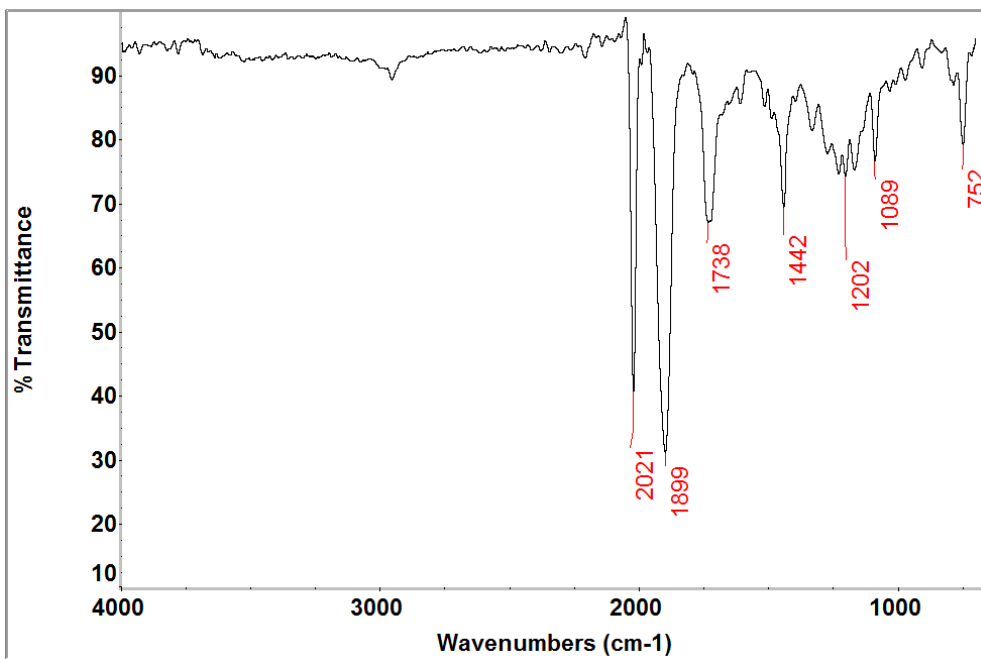


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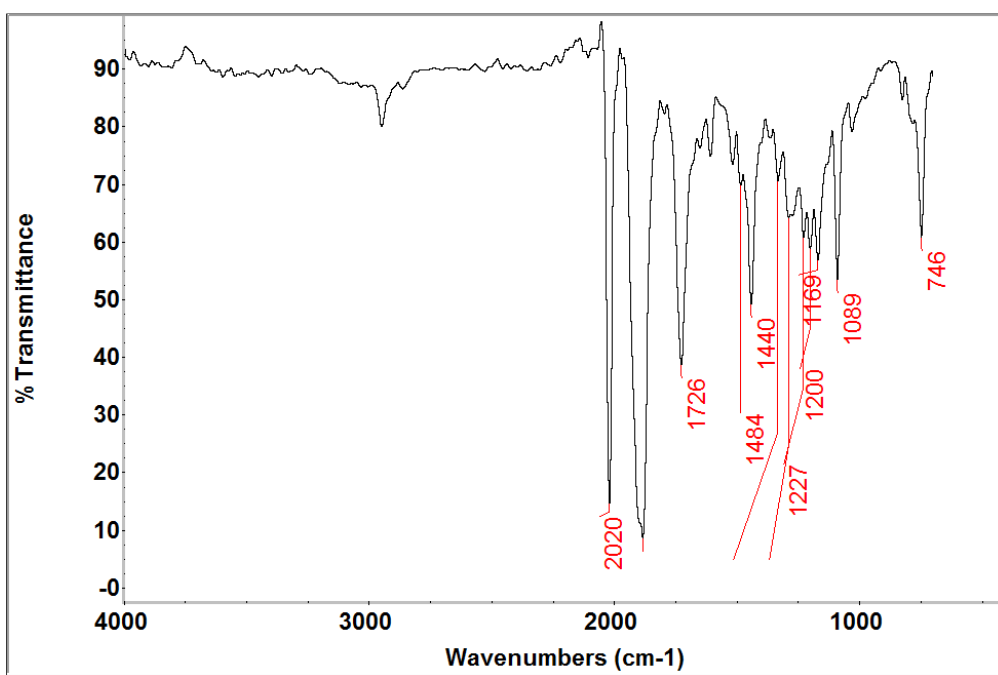


b)

Fig. S3 NMR analysis of **5** in DMSO-d₆, a) ¹H, and b) ¹³C spectra.

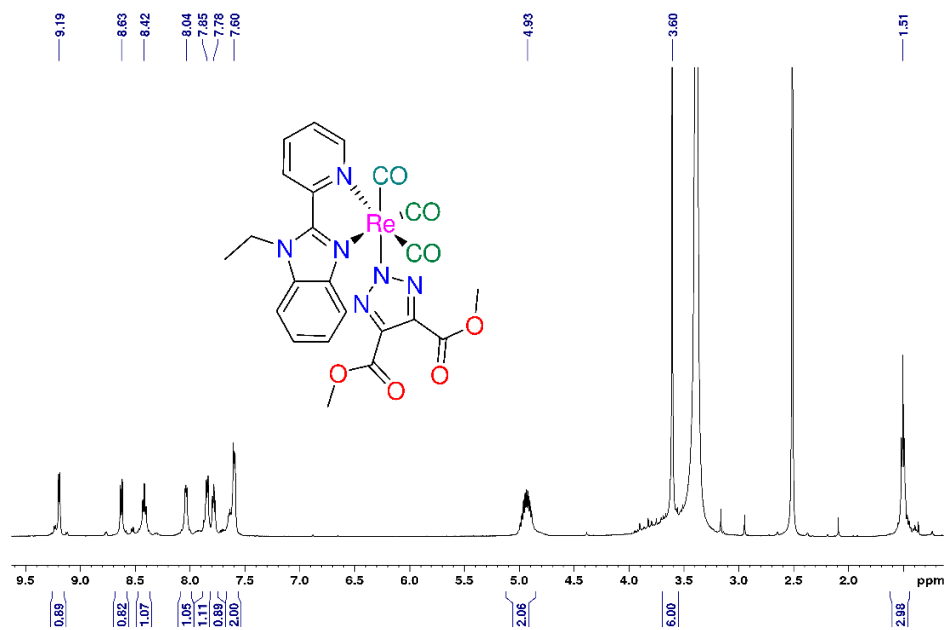


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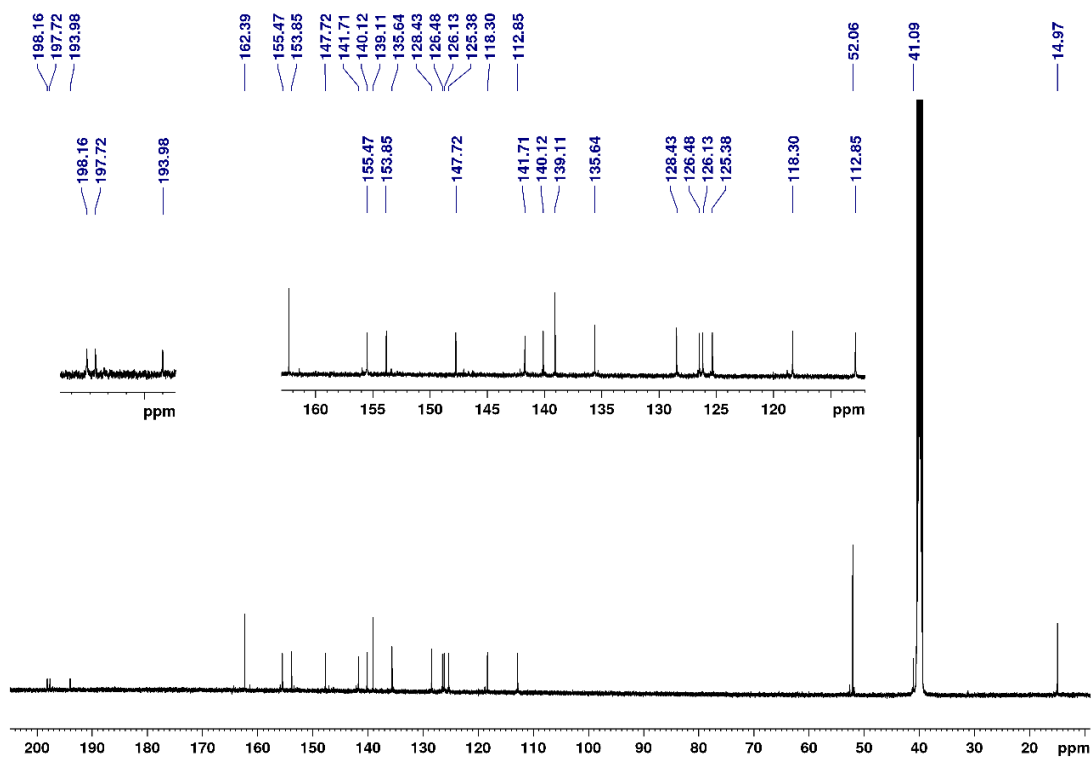


b)

Fig. S4 AT IR spectra of the Re(I) azide complexes, a) **3** and b) **6**.

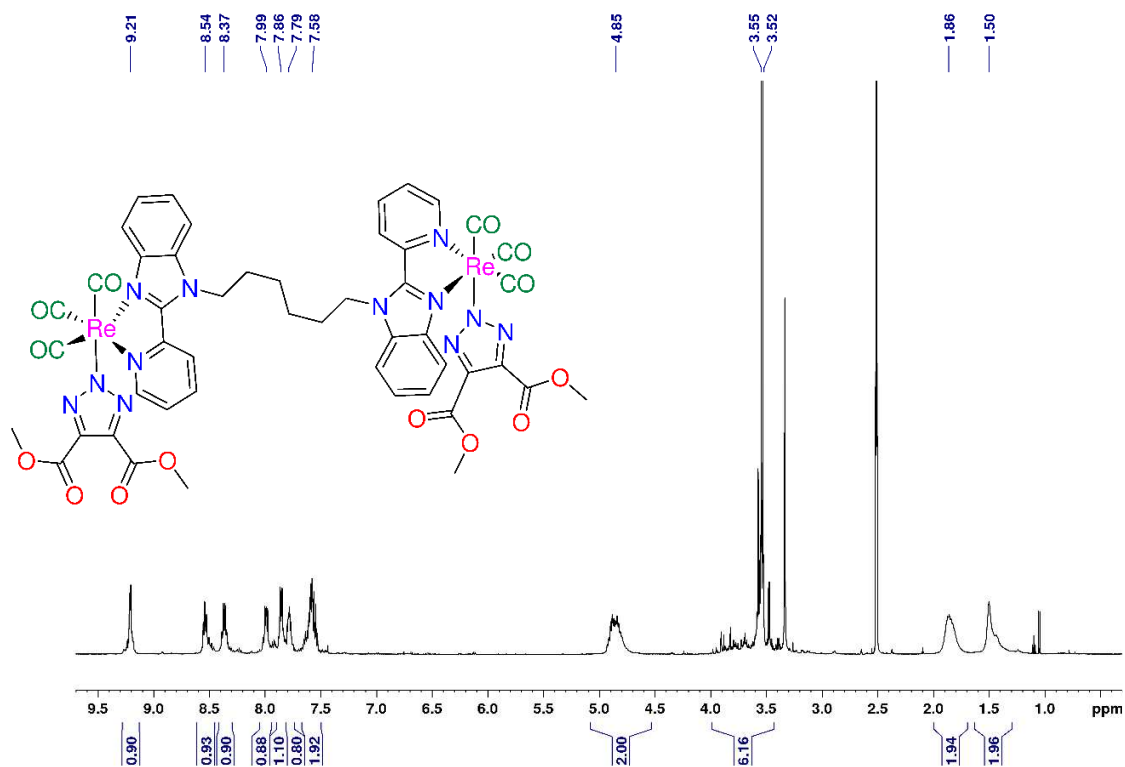


a)

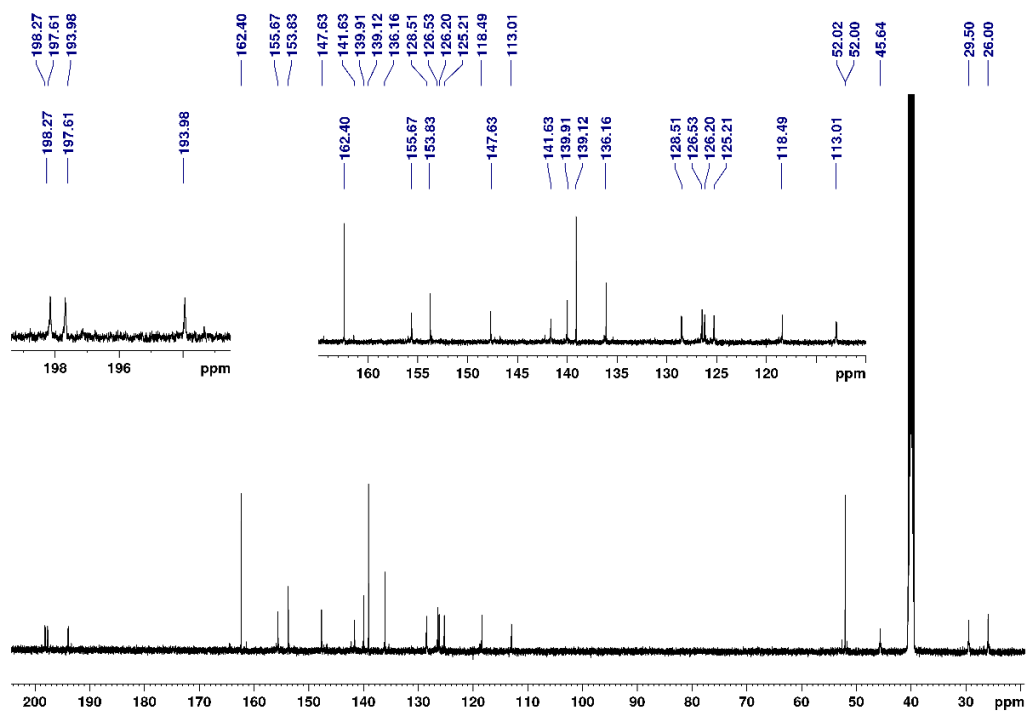


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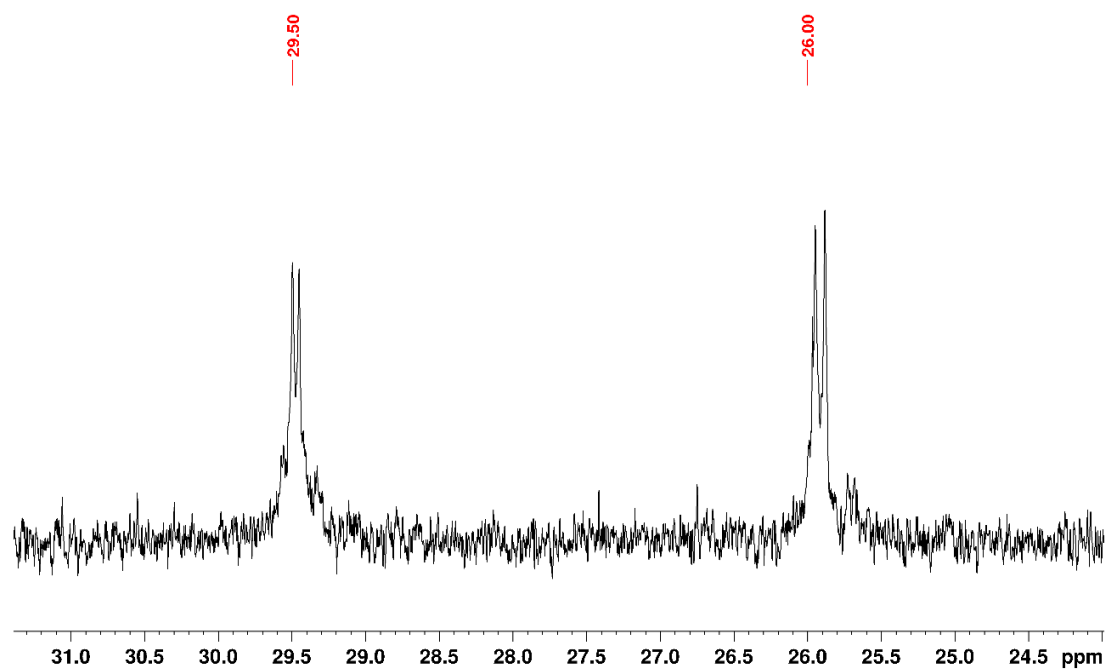
Fig. S5 NMR analysis of **3** in DMSO-d₆, a) ¹H, and b) ¹³C spectra.



a)



b)



c)

Fig. S6 NMR analysis of **6** in DMSO- d_6 , a) ^1H , b) ^{13}C and c) representative zoom in section of ^{13}C spectra.

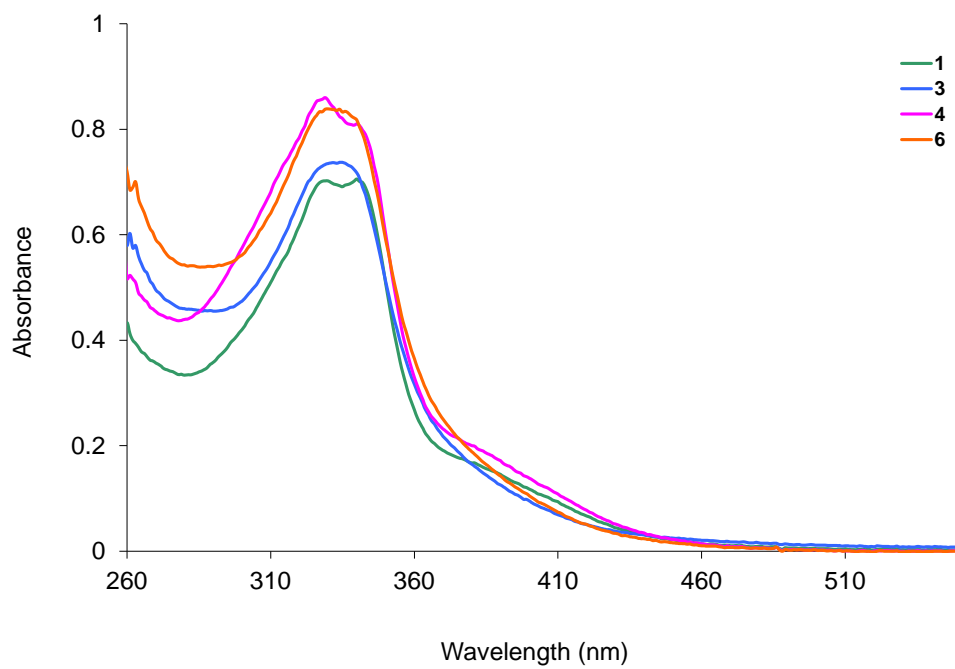


Fig. S7 Electronic absorption spectra of the complexes in DMSO.

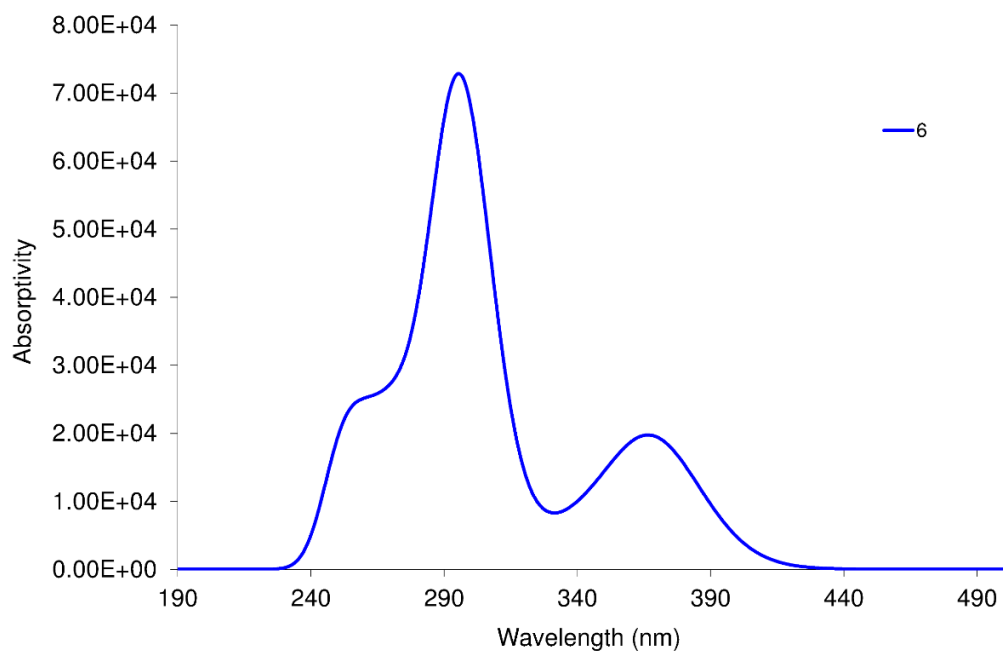
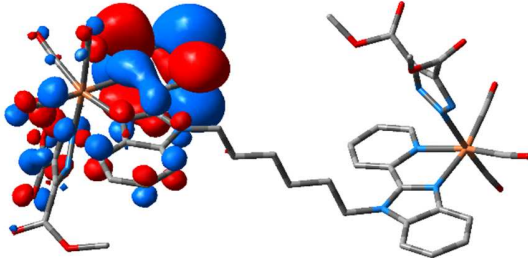
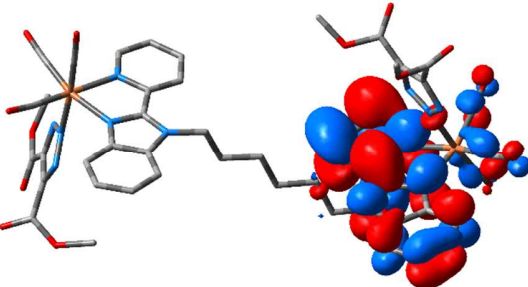
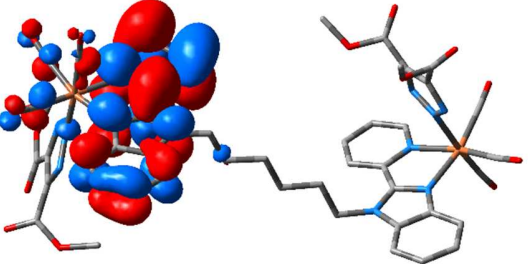
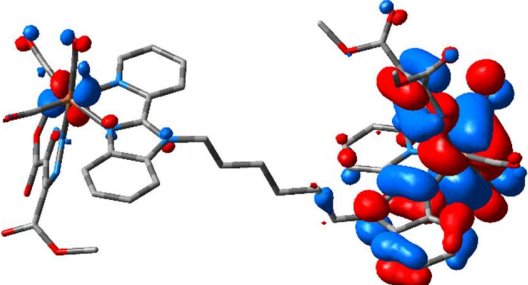
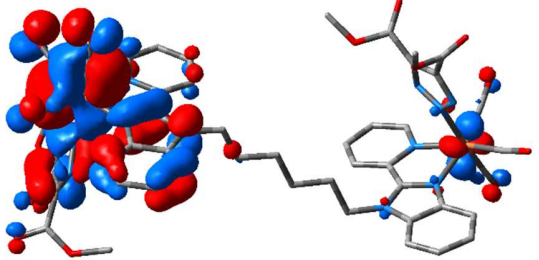
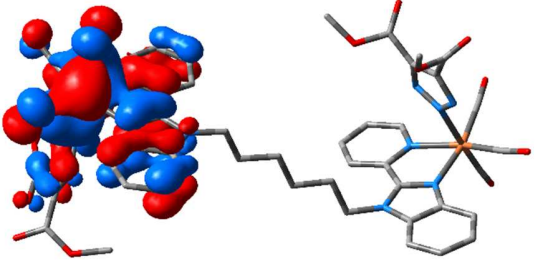
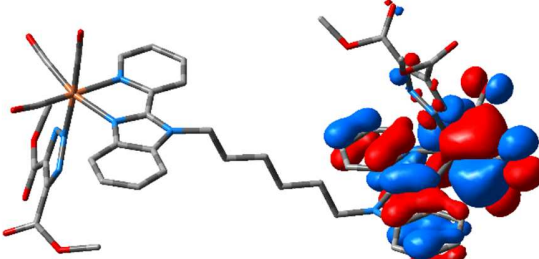
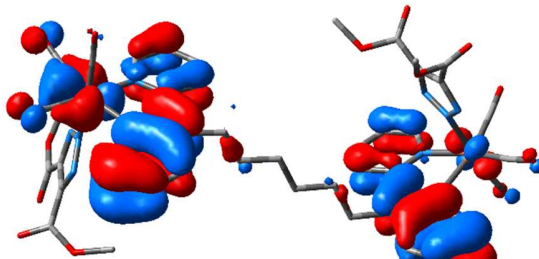


Fig. S8 Calculated electronic spectra of **6** at TD/PCM(DMSO)/CAM-B3LYP/LANL2DZ level of theory in the singlet state.

Table S1 Selected frontiers molecular orbitals of **6** in the singlet state calculated at B3LYP/LANL2DZ level of theory.

Orbital	Frontier molecular orbital
LUMO+2	
LUMO+1	
LUMO	
HOMO	

HOMO-1	
HOMO-2	
HOMO-3	
HOMO-5	
HOMO-6	