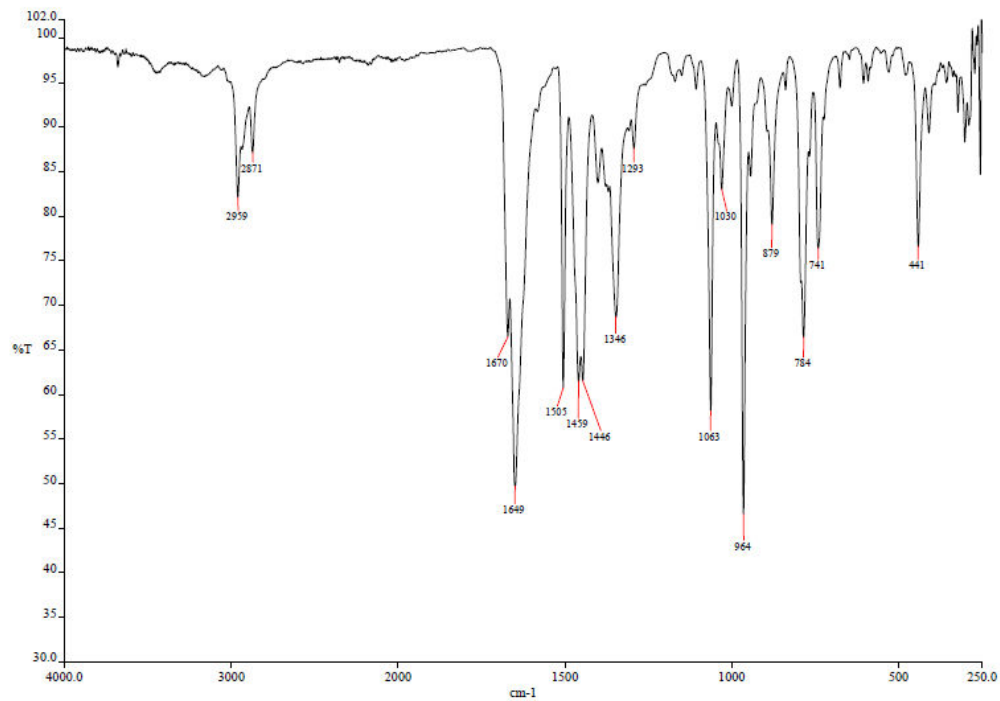
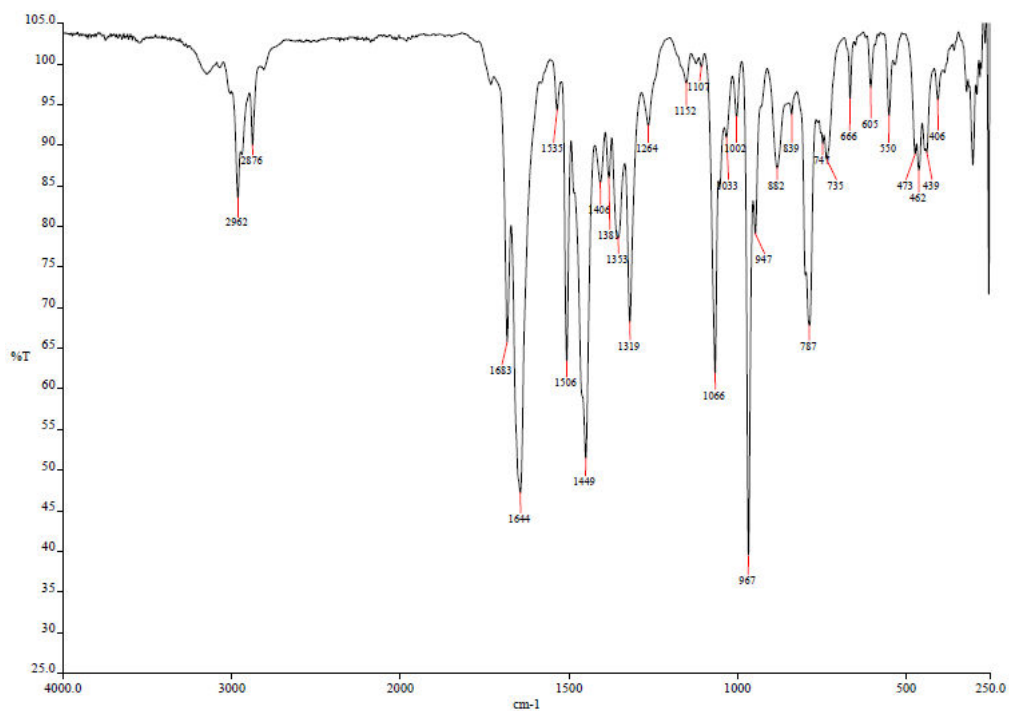
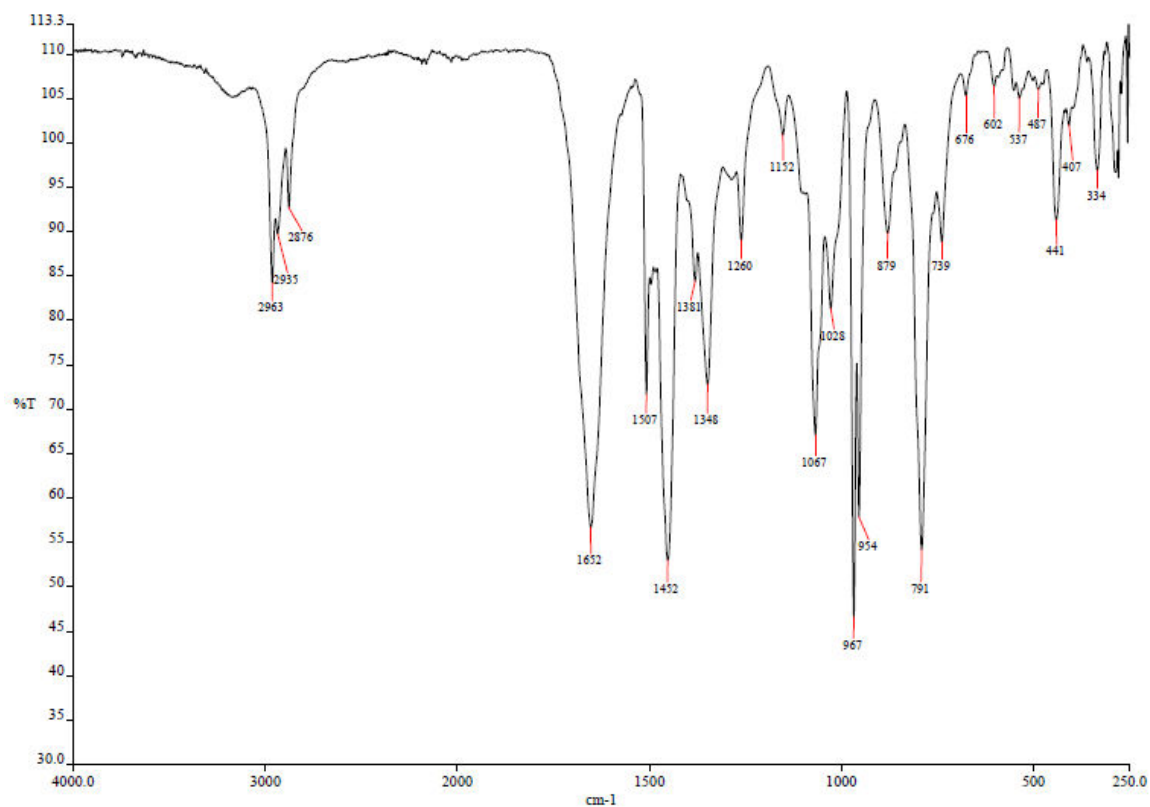
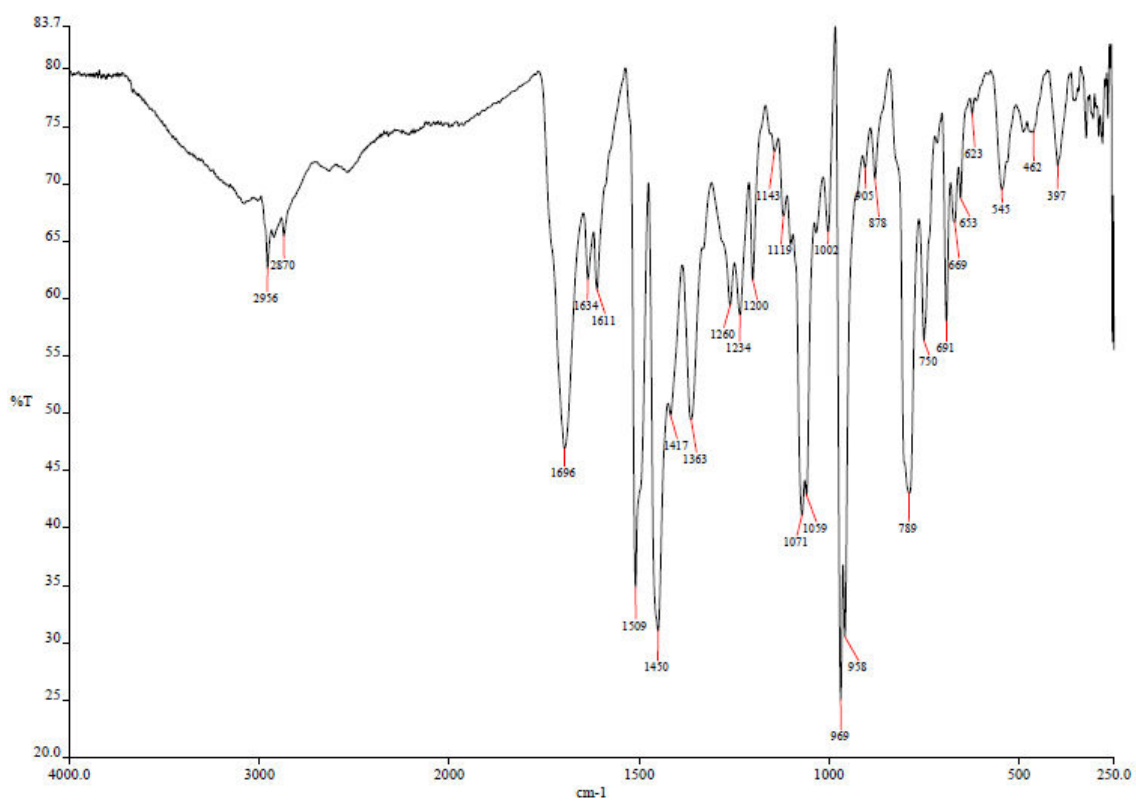
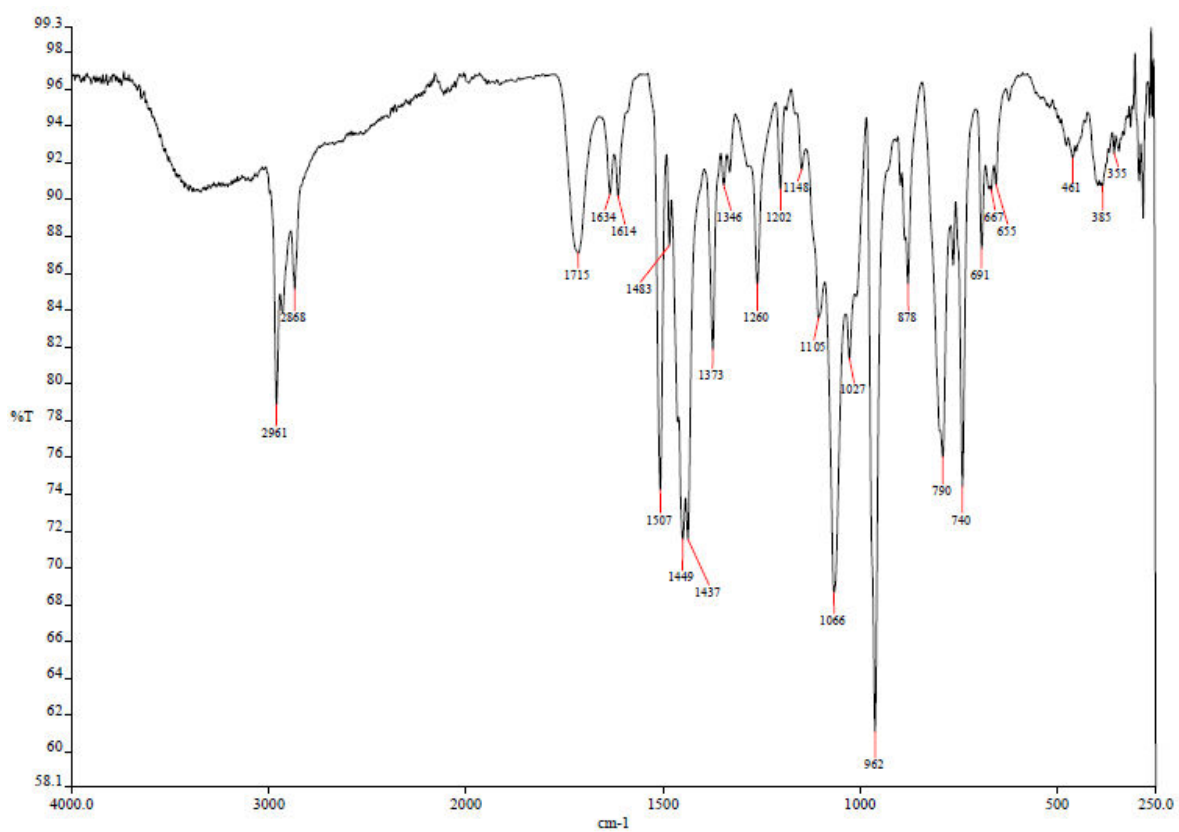
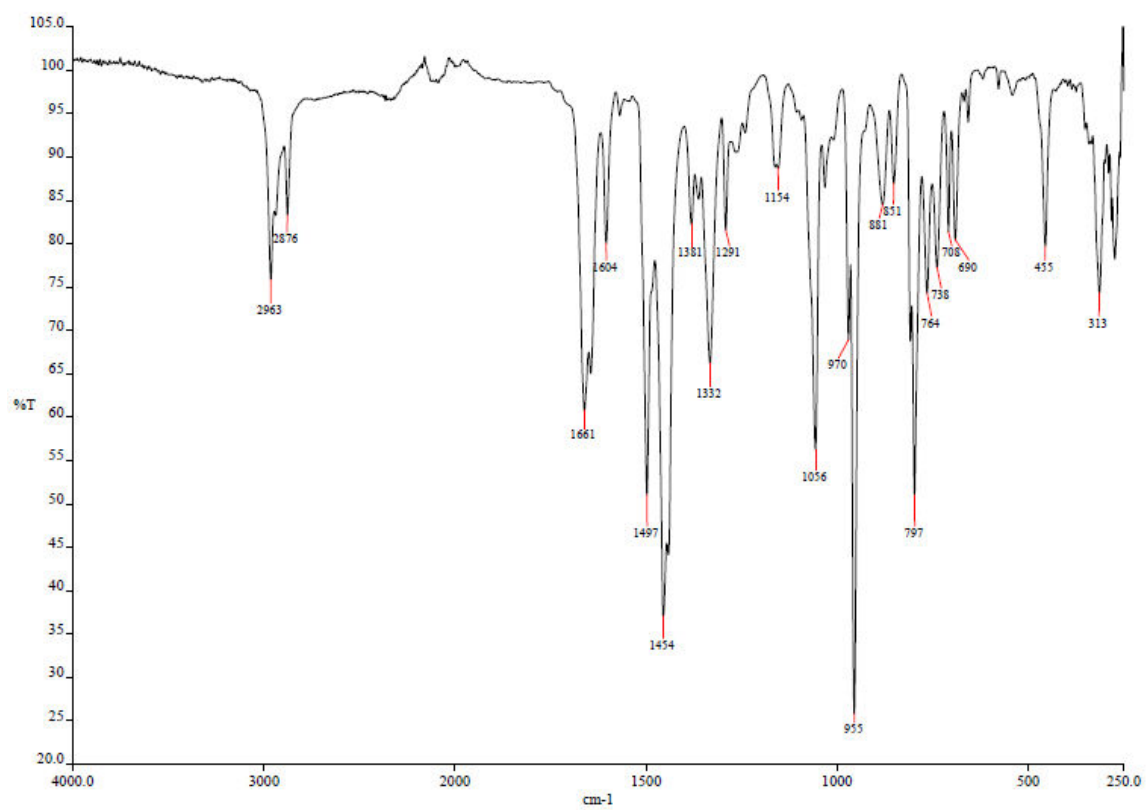


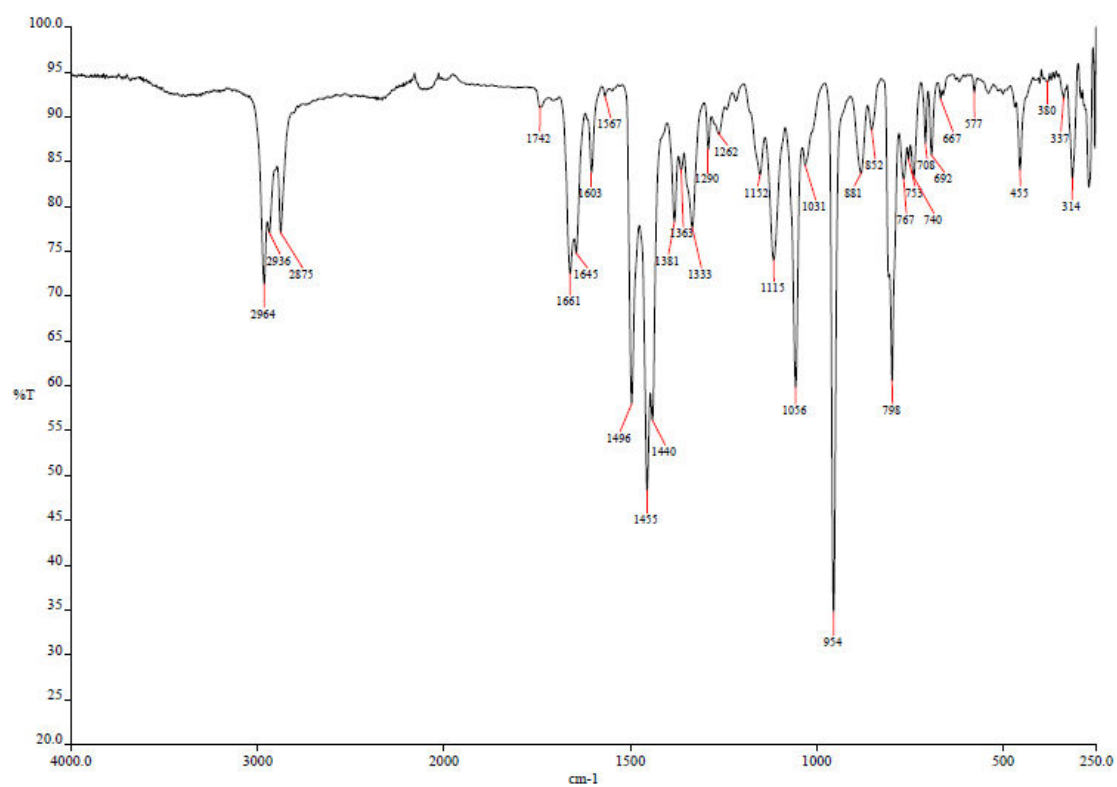
## ANEXOS

## Espectros de IR

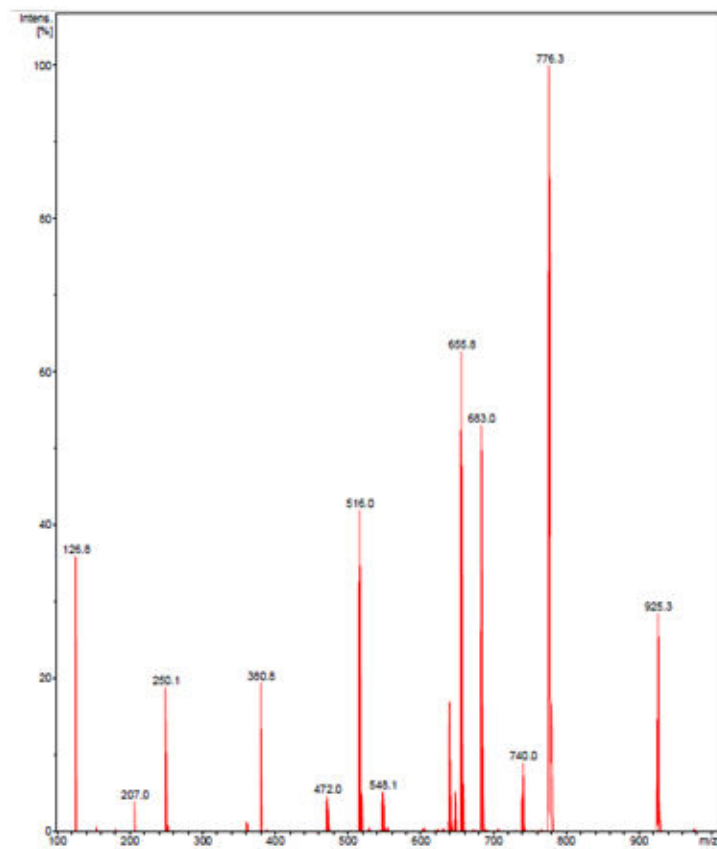
Complejo (NBu<sub>4</sub>)<sub>2</sub>[*trans,cis*-Pt<sup>IV</sup>(I)<sub>2</sub>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(Horot)]Complejo (NBu<sub>4</sub>)<sub>2</sub>[*trans,cis*-Pt<sup>IV</sup>(Br)<sub>2</sub>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(Horot-Br)]

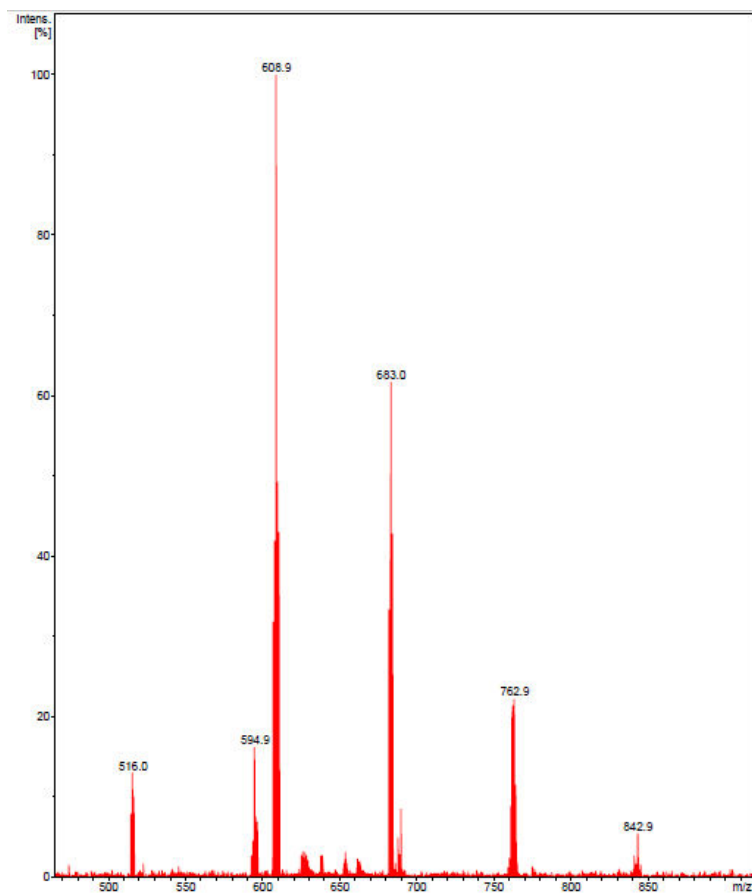
Complejo  $(\text{NBu}_4)_2[\text{trans},\text{cis}-\text{Pt}^{\text{IV}}(\text{Cl})_2(\text{C}_6\text{F}_5)_2(\text{Horot})]$ Complejo  $(\text{NBu}_4)[\text{trans},\text{cis}-\text{Pt}^{\text{IV}}(\text{I})_2(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$

Complejo  $(\text{NBu}_4)[\text{trans,cis-Pt}^{\text{IV}}(\text{Br})_2(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$ Complejo  $(\text{NBu}_4)[\text{Pt}^{\text{IV}}(\text{I})_2(\text{C}_6\text{F}_5)_2(\text{pic})]$

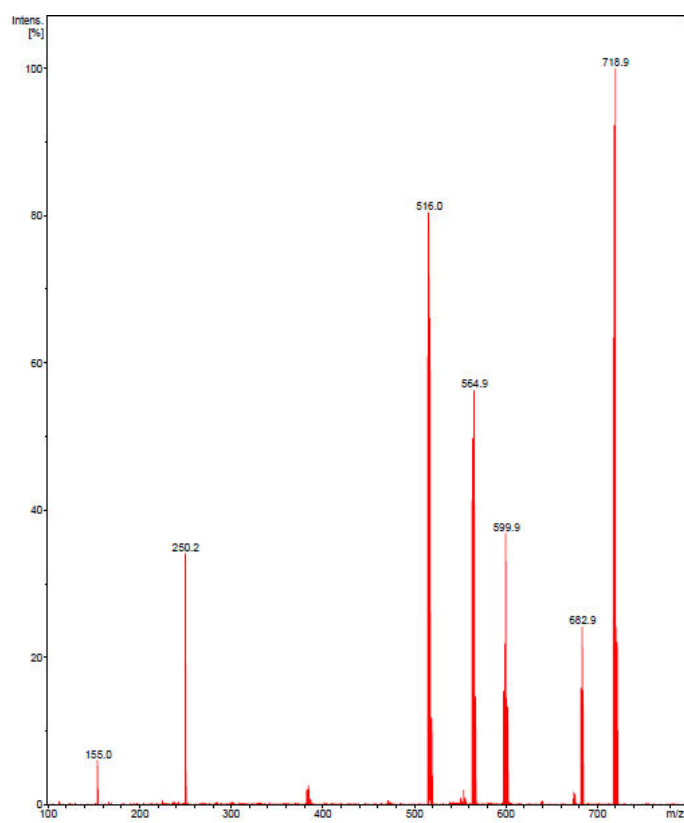
Complejo (NBu<sub>4</sub>)[*cis*-Pt<sup>II</sup>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(pic)]

## Espectros de Masas

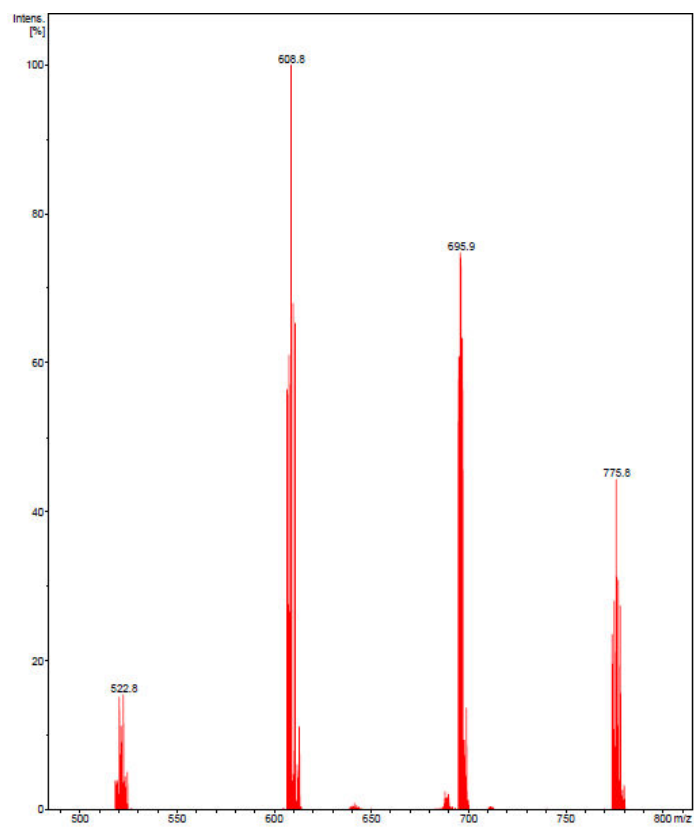
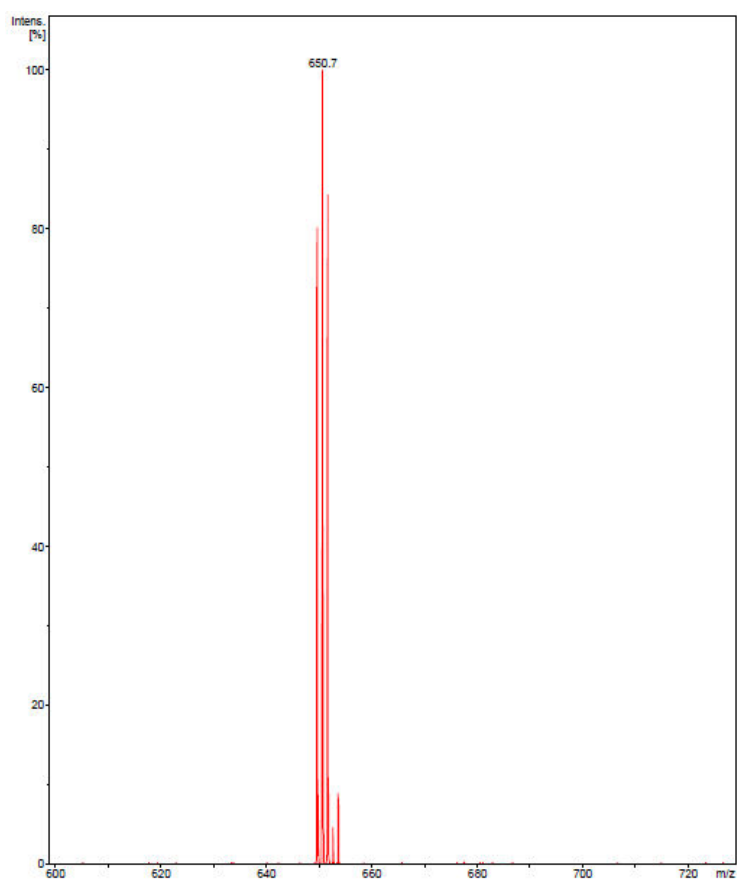
Complejo (NBu<sub>4</sub>)<sub>2</sub>[*trans,cis*-Pt<sup>IV</sup>(I)<sub>2</sub>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(Horot)]

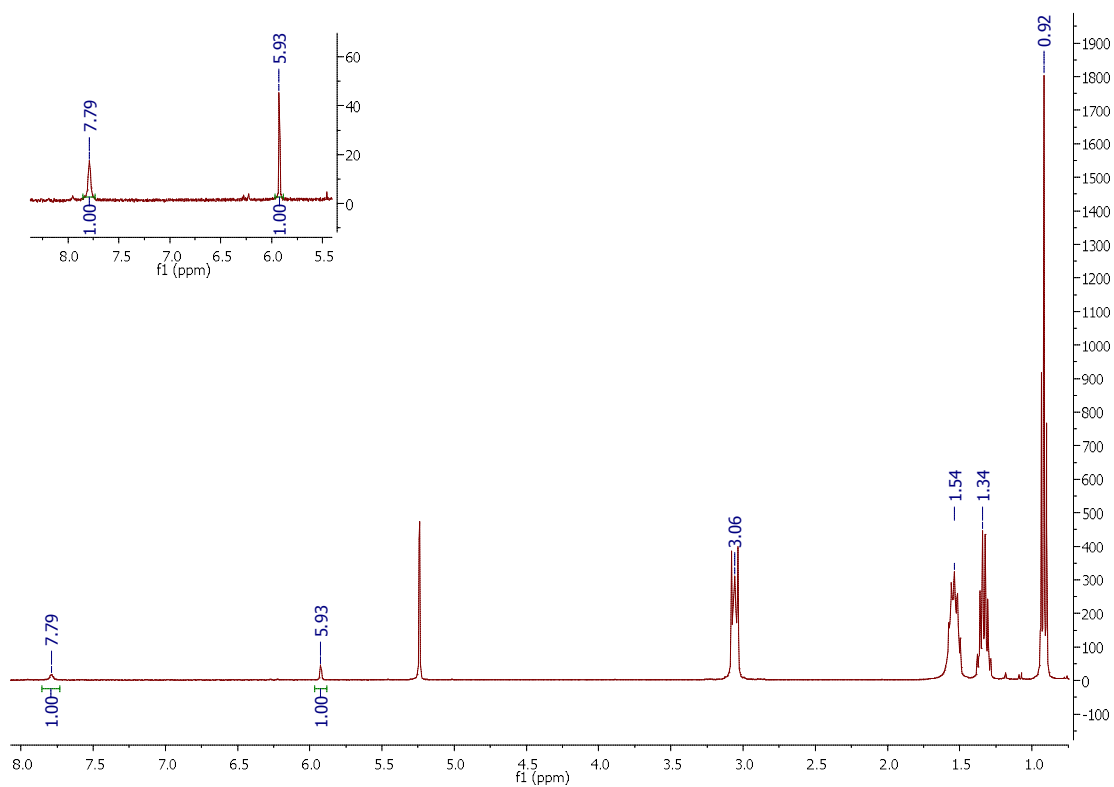
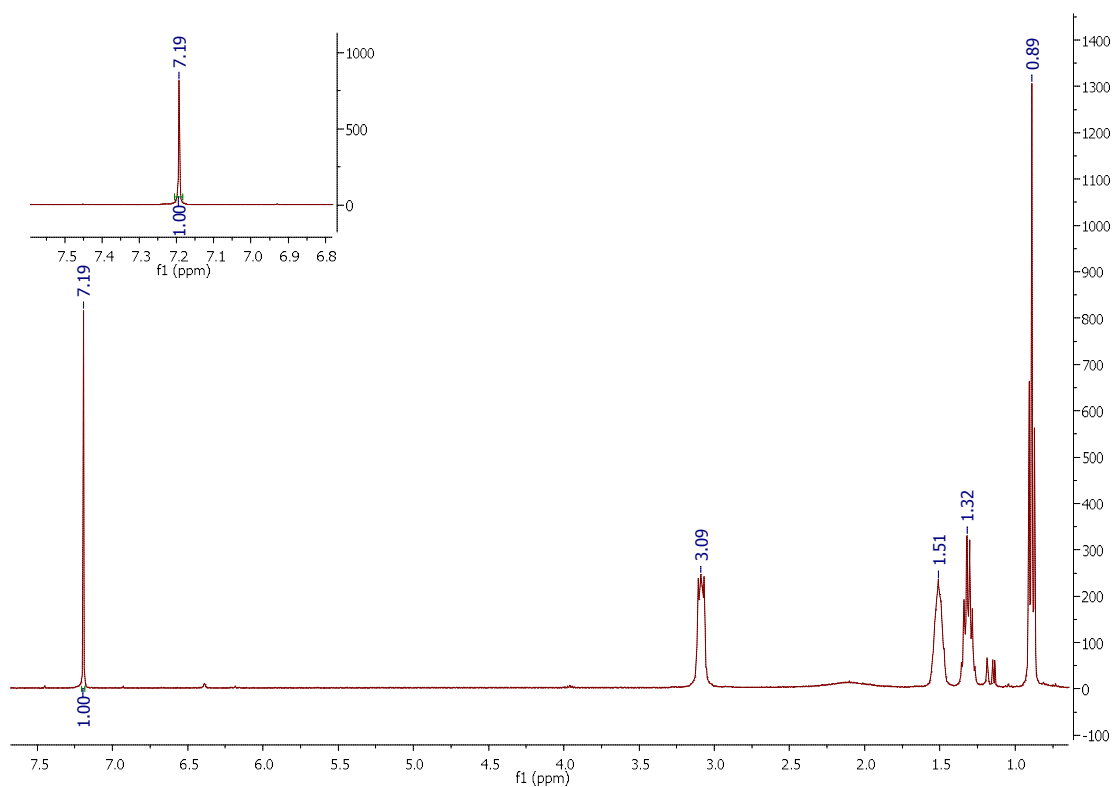


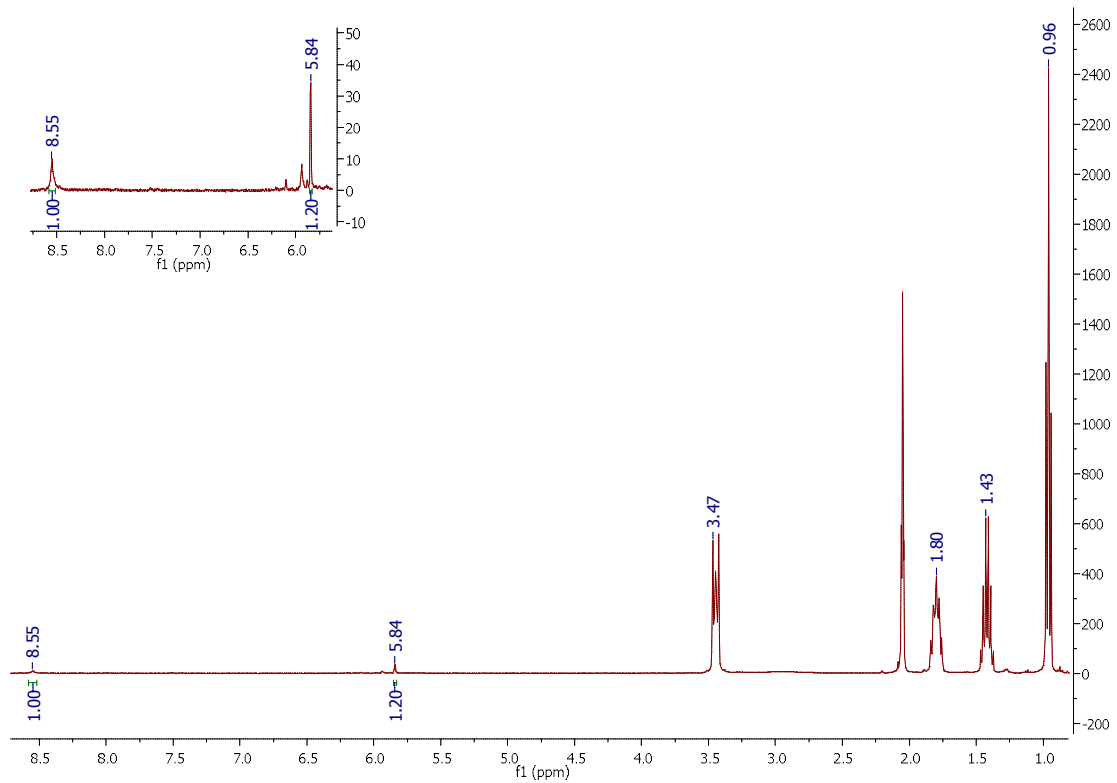
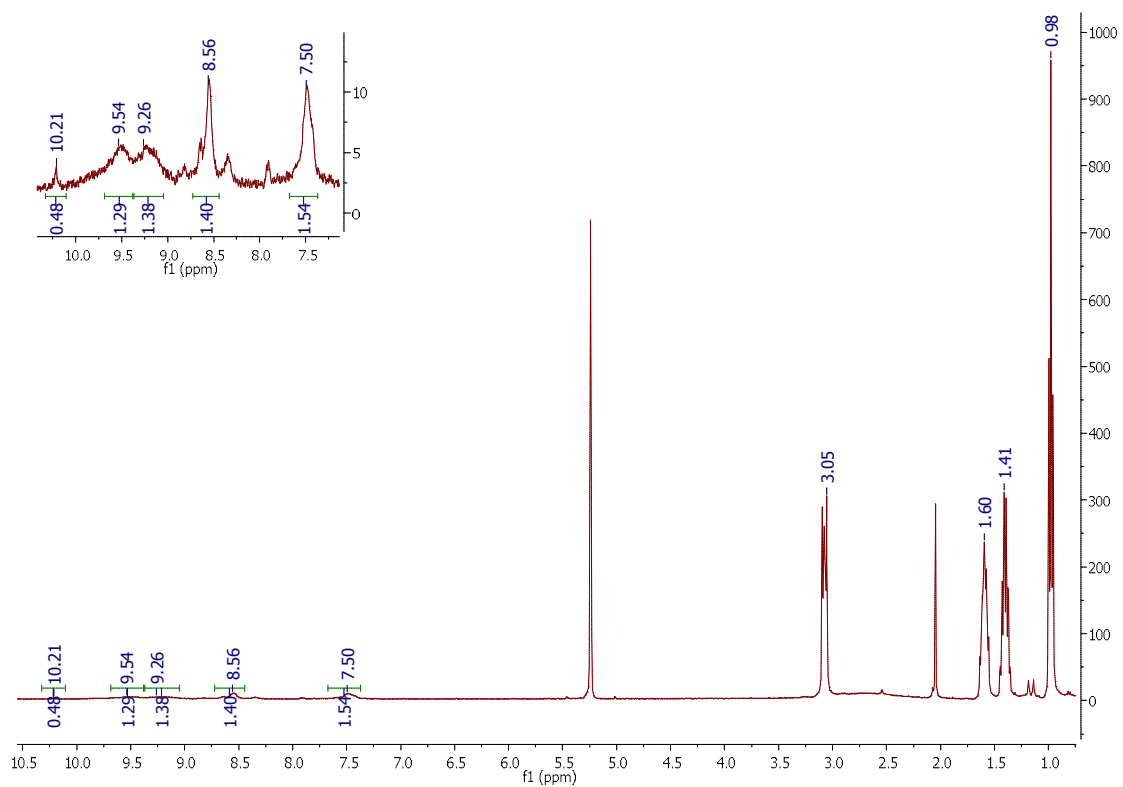
Complejo  $(\text{NBu}_4)_2[\text{trans},\text{cis-Pt}^{\text{IV}}(\text{Br})_2(\text{C}_6\text{F}_5)_2(\text{Horot-Br})]$



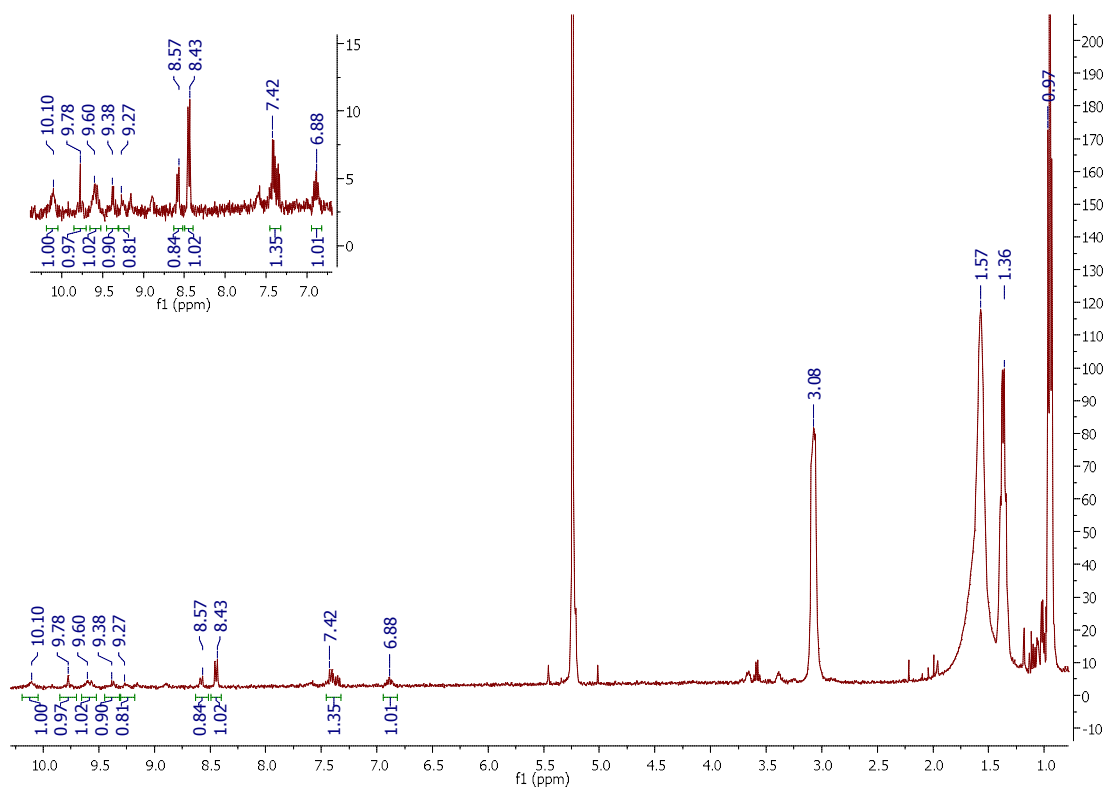
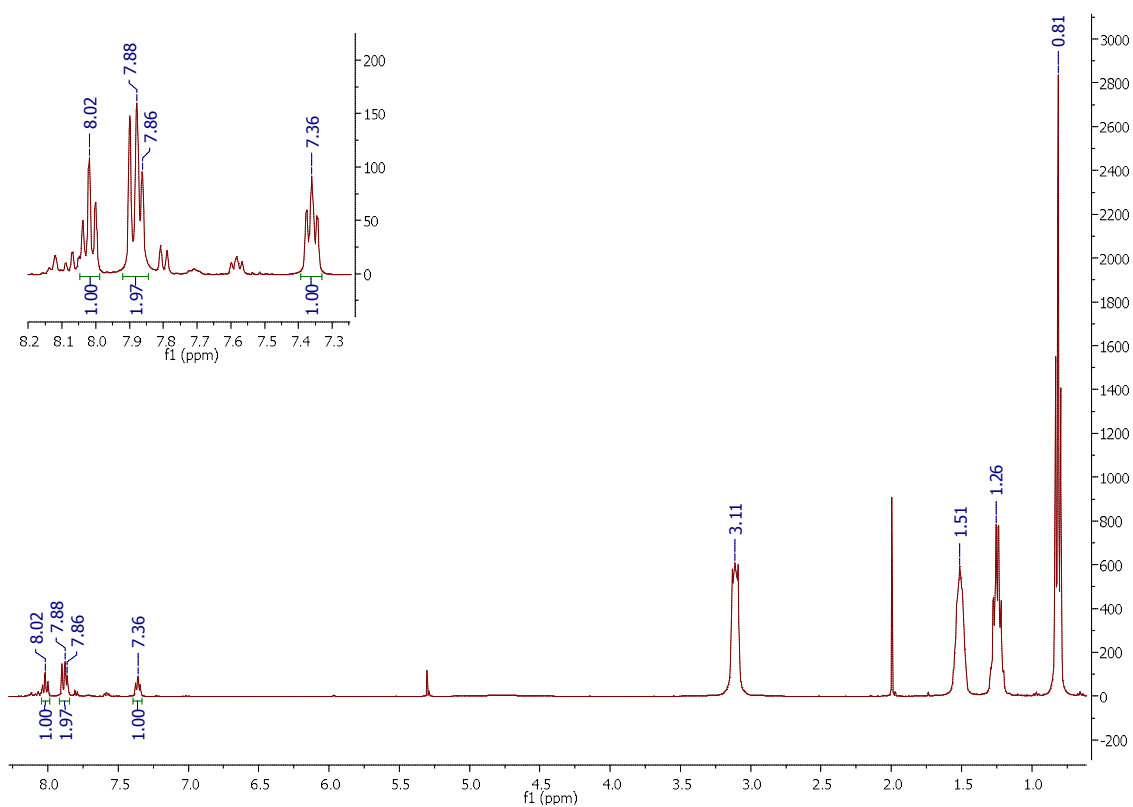
Complejo  $(\text{NBu}_4)_2[\text{trans},\text{cis-Pt}^{\text{IV}}(\text{Cl})_2(\text{C}_6\text{F}_5)_2(\text{Horot})]$

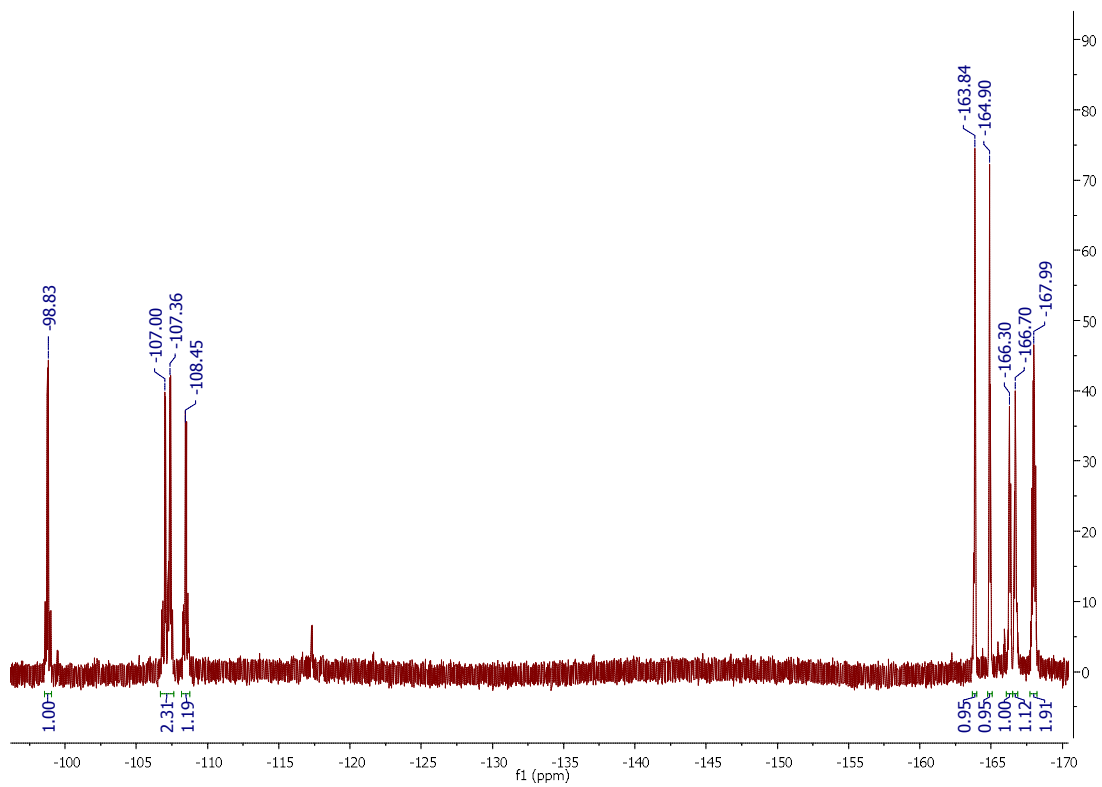
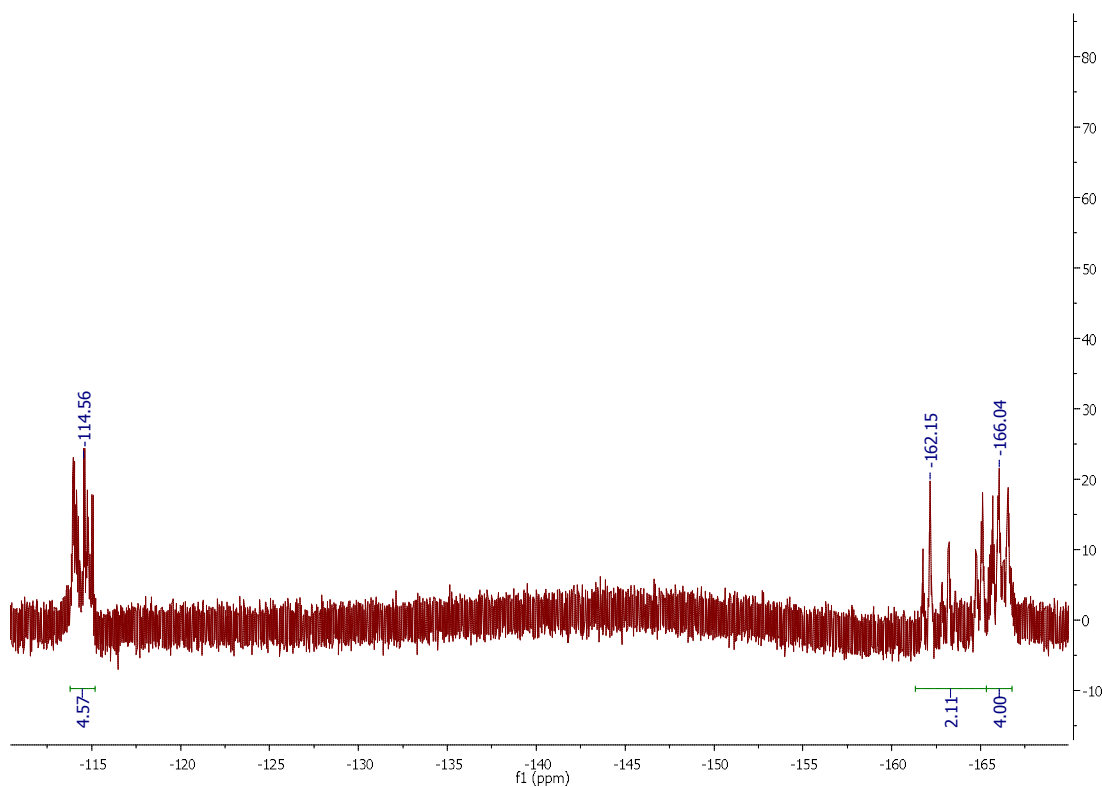
Complejo (NBu<sub>4</sub>)[*trans,cis*-Pt<sup>IV</sup>(Br)<sub>2</sub>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(nic)(Hnic)]Complejo (NBu<sub>4</sub>)[*cis*-Pt<sup>II</sup>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(pic)]

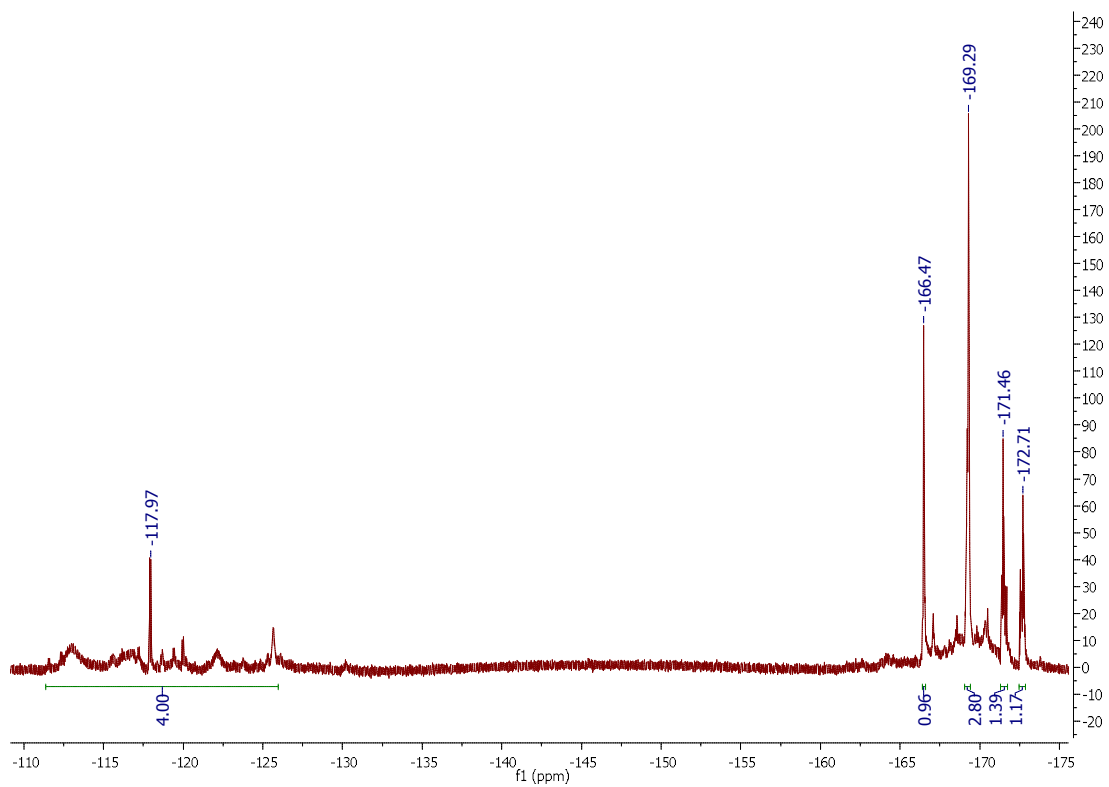
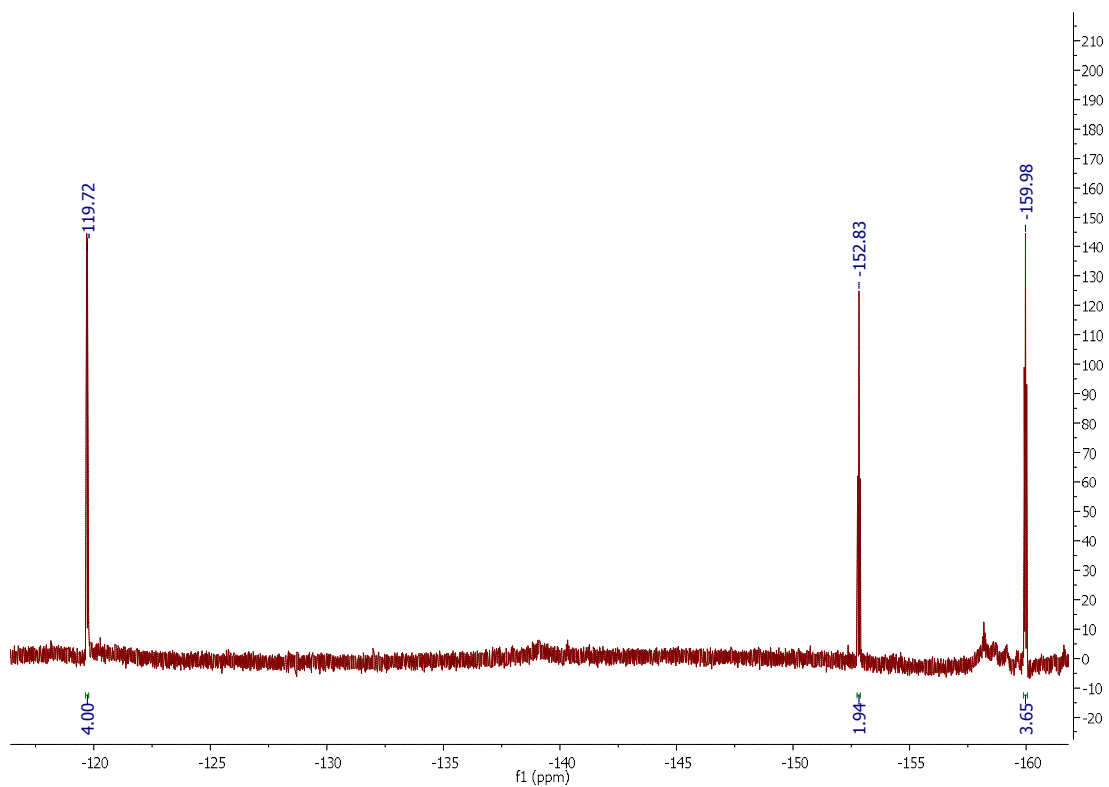
Espectros de  $^1\text{H}$ -RMNComplejo  $(\text{NBu}_4)_2[\text{trans},\text{cis}-\text{Pt}^{\text{IV}}(\text{I})_2(\text{C}_6\text{F}_5)_2(\text{Horot})]$ Complejo  $(\text{NBu}_4)_2[\text{trans},\text{cis}-\text{Pt}^{\text{IV}}(\text{Br})_2(\text{C}_6\text{F}_5)_2(\text{Horot-Br})]$

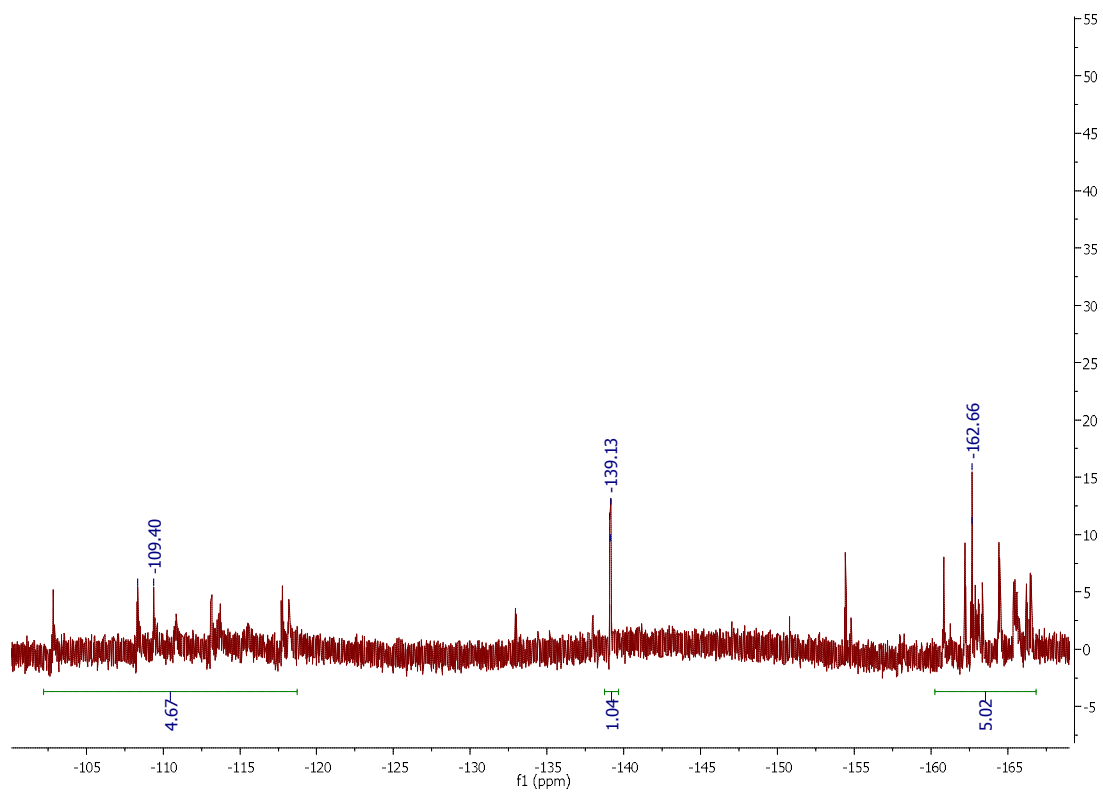
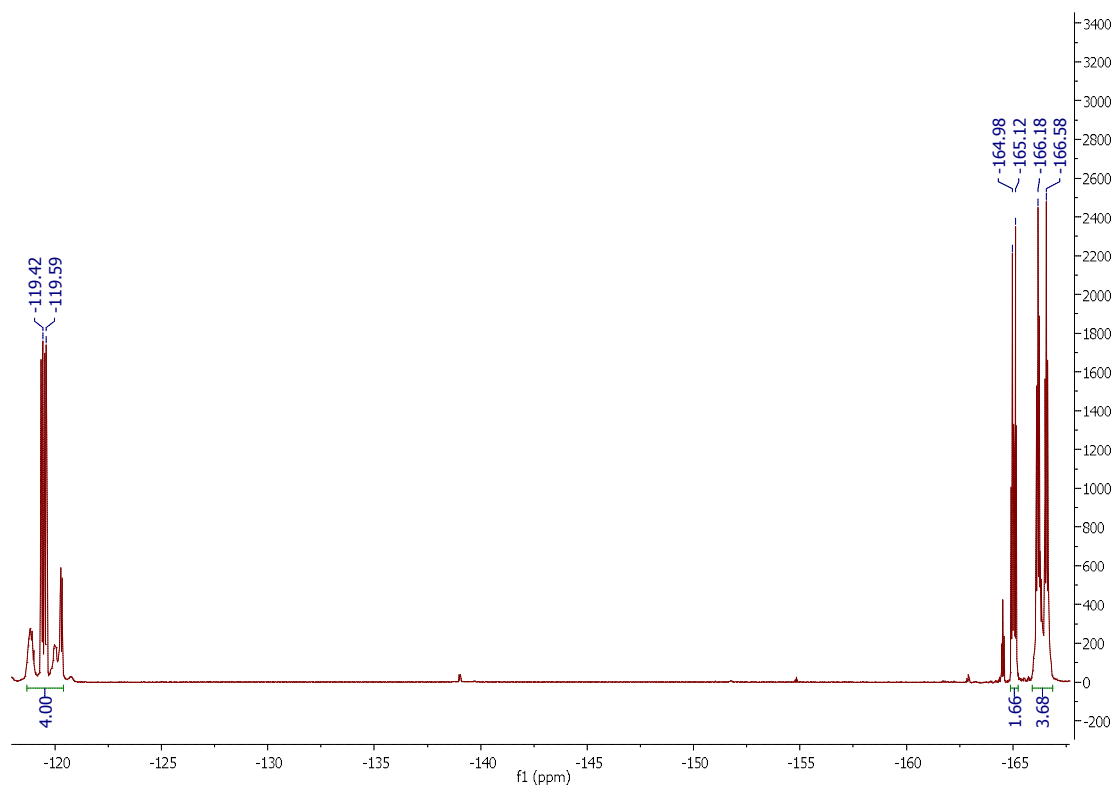
Complejo  $(\text{NBu}_4)_2[\text{trans},\text{cis}\text{-Pt}^{\text{IV}}(\text{Cl})_2(\text{C}_6\text{F}_5)_2(\text{Horot})]$ Complejo  $(\text{NBu}_4)[\text{trans},\text{cis}\text{-Pt}^{\text{IV}}(\text{I})_2(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$



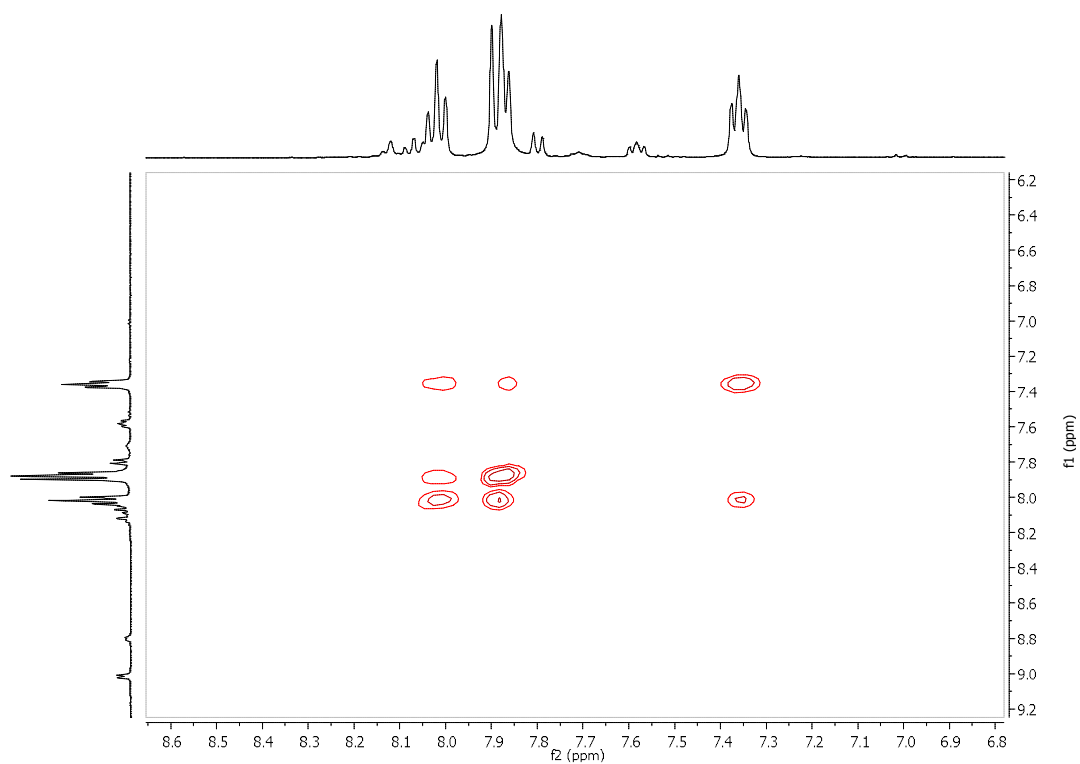
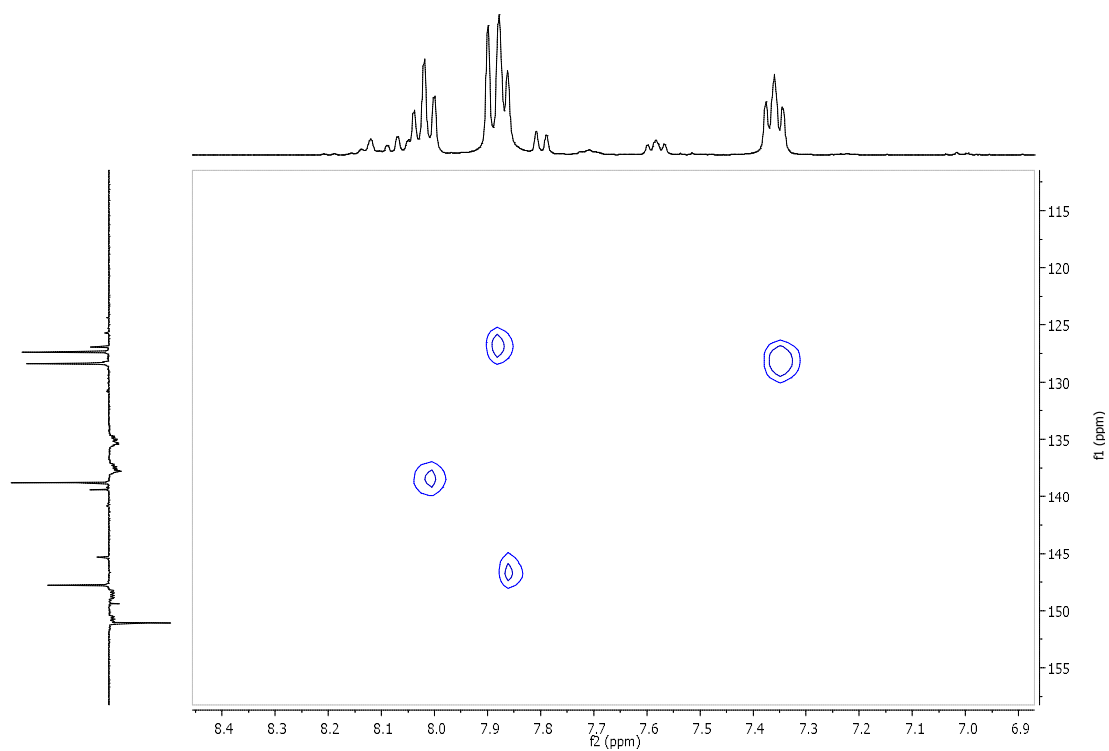
Complejo  $(\text{NBu}_4)[\text{trans},\text{cis-Pt}^{\text{IV}}(\text{Br})_2(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$ Complejo  $(\text{NBu}_4)[\text{cis-Pt}^{\text{II}}(\text{C}_6\text{F}_5)_2(\text{pic})]$

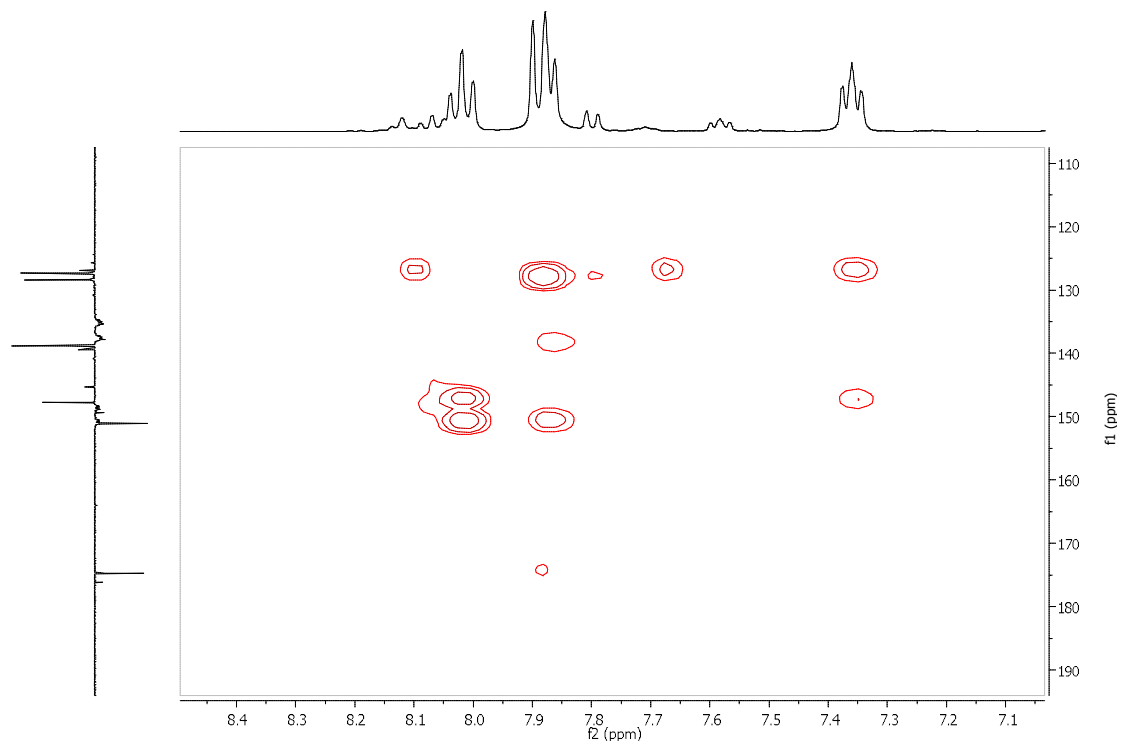
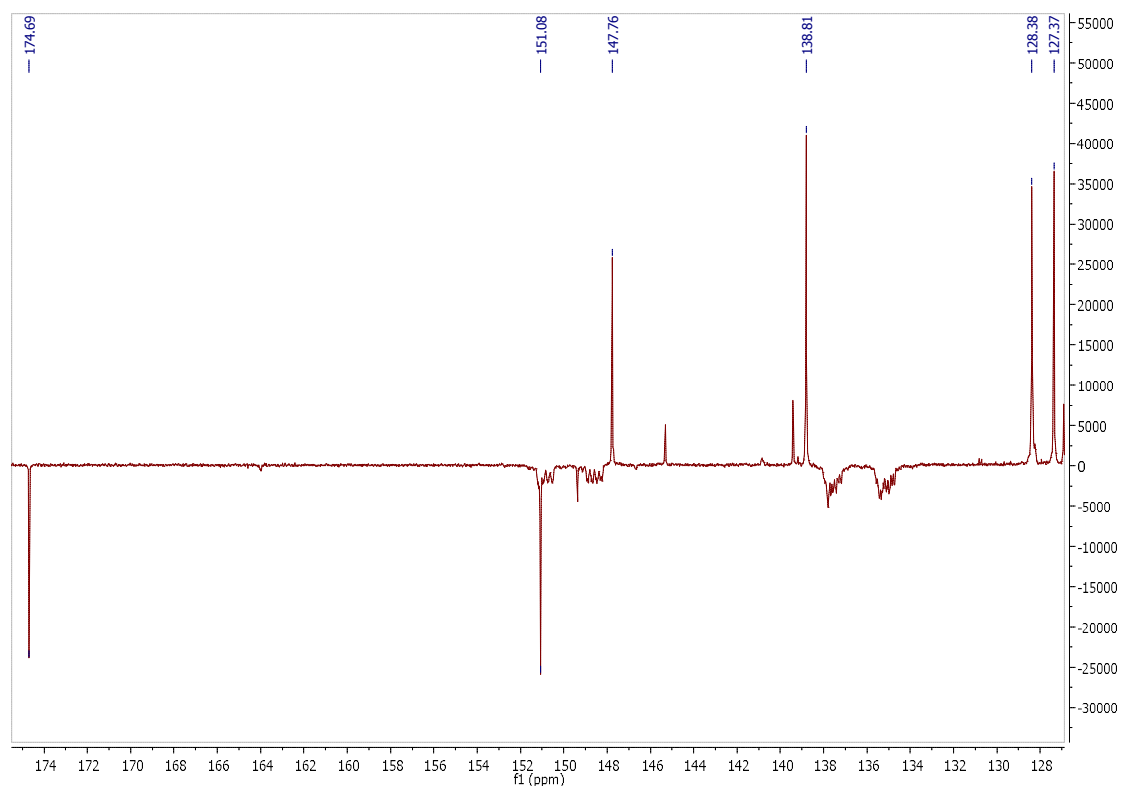
Espectros de  $^{19}\text{F}$ -RMNComplejo  $(\text{NBu}_4)_2[\text{trans},\text{cis}\text{-Pt}^{\text{IV}}(\text{I})_2(\text{C}_6\text{F}_5)_2(\text{Horot})]$ Complejo  $(\text{NBu}_4)_2[\text{trans},\text{cis}\text{-Pt}^{\text{IV}}(\text{Br})_2(\text{C}_6\text{F}_5)_2(\text{Horot-Br})]$

Complejo  $(\text{NBu}_4)_2[\text{trans},\text{cis}\text{-Pt}^{\text{IV}}(\text{Cl})_2(\text{C}_6\text{F}_5)_2(\text{Horot})]$ Complejo  $(\text{NBu}_4)[\text{trans},\text{cis}\text{-Pt}^{\text{IV}}(\text{I})_2(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$

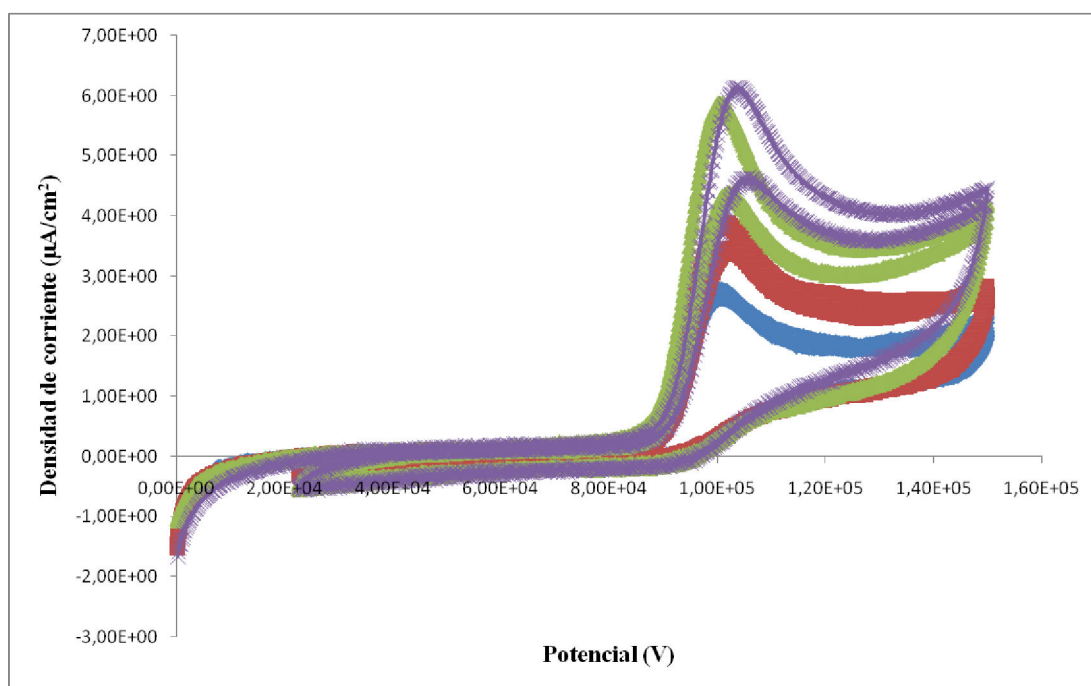
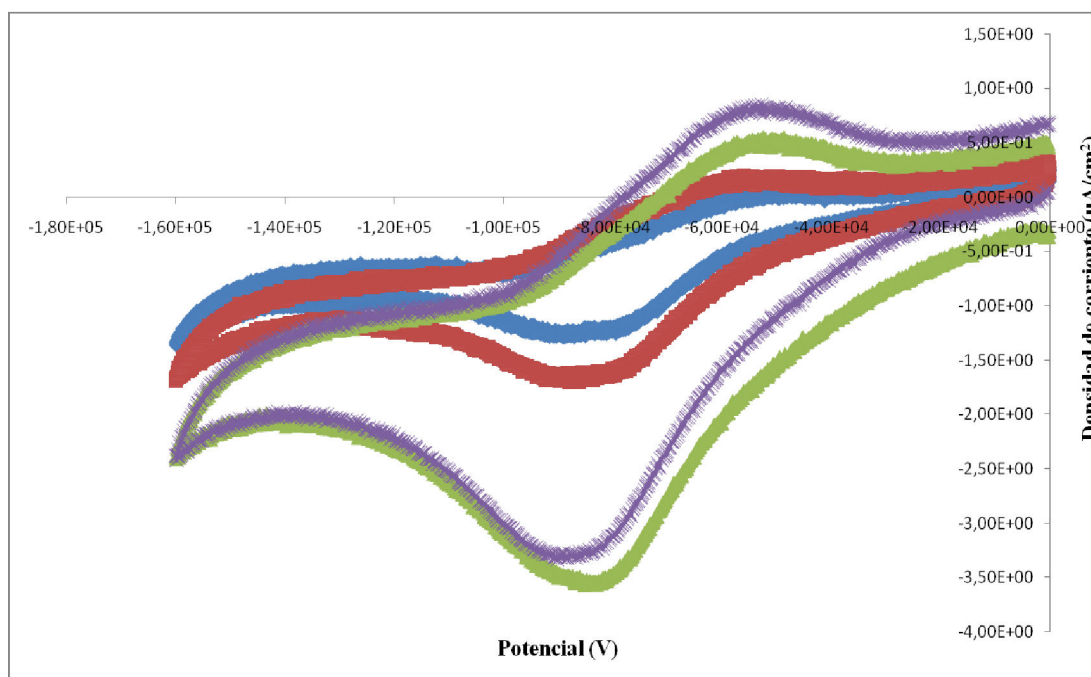
Complejo  $(\text{NBu}_4)[\text{trans},\text{cis}\text{-Pt}^{\text{IV}}(\text{Br})_2(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$ Complejo  $(\text{NBu}_4)[\text{cis}\text{-Pt}^{\text{II}}(\text{C}_6\text{F}_5)_2(\text{pic})]$

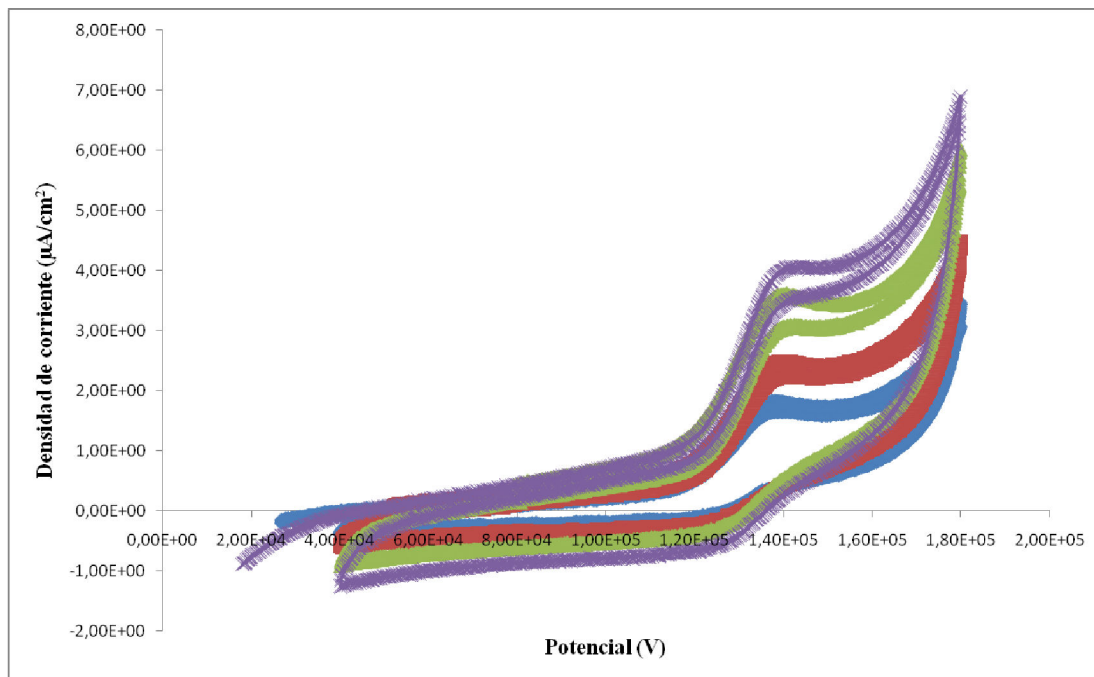
## Espectro COSY

Complejo  $(\text{NBu}_4)[\text{cis-Pt}^{\text{II}}(\text{C}_6\text{F}_5)_2(\text{pic})]$ Espectro HSQC  $^1\text{H}$ - $^{13}\text{C}$ Complejo  $(\text{NBu}_4)[\text{cis-Pt}^{\text{II}}(\text{C}_6\text{F}_5)_2(\text{pic})]$

Espectro HMBC<sup>1</sup>H-<sup>13</sup>CComplejo (NBu<sub>4</sub>)[*cis*-Pt<sup>II</sup>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(pic)]Espectro de <sup>13</sup>C-RMNComplejo (NBu<sub>4</sub>)[*cis*-Pt<sup>II</sup>(C<sub>6</sub>F<sub>5</sub>)<sub>2</sub>(pic)]

## Espectros de Voltametrías Cíclicas.

Complejo  $(\text{NBu}_4)_2[\text{cis-Pt}^{\text{II}}(\text{C}_6\text{F}_5)_2(\text{Horot})]$ Complejo  $(\text{NBu}_4)_2[\text{cis-Pt}^{\text{II}}(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$



Complejo  $(\text{NBu}_4)[\text{cis-Pt}^{\text{II}}(\text{C}_6\text{F}_5)_2(\text{nic})(\text{Hnic})]$



## Tablas Cristalográficas

Datos cristalográficos y de parámetros de refinamiento para el complejo (NBu <sub>4</sub> ) <sub>2</sub> [ <i>trans,cis</i> -Pt <sup>IV</sup> (I) <sub>2</sub> (C <sub>6</sub> F <sub>5</sub> ) <sub>2</sub> (Horot)]	
Empirical formula	C <sub>51</sub> H <sub>78</sub> Cl <sub>4</sub> F <sub>10</sub> I <sub>2</sub> N <sub>4</sub> O <sub>4</sub> Pt
Formula weight	1591.86
Temperature	100(2) K
Wavelength	0.71073 Å
Crystal system, space group	Triclinic, P-1
Unit cell dimensions	a = 13.9329(7) Å      α = 96.0460 (10) °
	b = 14.2355(7) Å      β = 109.7030(10) °
	c = 16.6975(9) Å      γ = 94.3430(10) °
Volume	3078.6(3) Å <sup>3</sup>
Z, Calculated density	2, 1.717 mg/m <sup>3</sup>
Absorption coefficient	3.530 mm <sup>-1</sup>
F(000)	1572
Crystal size	0.24 x 0.20 x 0.03 mm
Theta range for data collection	1.31 to 29.81 °
Limiting indices	-18 ≤ h ≤ 18, -19 ≤ k ≤ 18, -22 ≤ l ≤ 23
Reflections collected / unique	33491 / 15699 [R(int) = 0.0308]
Completeness to theta = 28.84	89.0 %
Max. and min. transmission	0.9015 and 0.4846
Refinement method	Full-matrix least-squares on F <sup>2</sup>
Data / restraints / parameters	15699 / 2 / 687
Goodness-of-fit on F <sup>2</sup>	1.064
Final R indices [I > 2σ(I)]	R1 = 0.0380, wR2 = 0.0837
R indices (all data)	R1 = 0.0653, wR2 = 0.0955
Largest diff. peak and hole	2.585 and -2.850 eÅ <sup>-3</sup>

Datos cristalográficos y de parámetros de refinamiento para el complejo (NBu <sub>4</sub> ) <sub>2</sub> [ <i>trans,cis</i> -Pt <sup>IV</sup> (Br) <sub>2</sub> (C <sub>6</sub> F <sub>5</sub> ) <sub>2</sub> (Horot-Br)]	
Empirical formula	C <sub>48.25</sub> H <sub>63</sub> Br <sub>2.50</sub> Cl <sub>0.75</sub> F <sub>10</sub> N <sub>4</sub> O <sub>5.50</sub> Pt
Formula weight	1398.48
Temperature	100(2) K
Wavelength	0.71073 Å
Crystal system, space group	P2 <sub>1</sub> /n
Unit cell dimensions	a = 11.9889(11) Å      α = 90 °
	b = 36.960(3) Å      β = 90.1350(10) °
	c = 13.3568(12) Å      γ = 90 °
Volume	5918.5(9) Å <sup>3</sup>
Z, Calculated density	4, 1.569 mg/m <sup>3</sup>
Absorption coefficient	4.168 mm <sup>-1</sup>
F(000)	2771
Crystal size	0.32 x 0.23 x 0.18 mm
Theta range for data collection	1.10 to 29.88 °
Limiting indices	-16 ≤ h ≤ 16, -48 ≤ k ≤ 49, -18 ≤ l ≤ 18
Reflections collected / unique	65591 / 15759 [R(int) = 0.0350]
Completeness to theta = 28.84	92.3 %
Max. and min. transmission	0.5208 and 0.3489
Refinement method	Full-matrix least-squares on F <sup>2</sup>
Data / restraints / parameters	15759 / 0 / 679
Goodness-of-fit on F <sup>2</sup>	1.162
Final R indices [I > 2σ(I)]	R1 = 0.0627, wR2 = 0.1652
R indices (all data)	R1 = 0.0811, wR2 = 0.1737
Largest diff. peak and hole	2.966 and -4.425 eÅ <sup>-3</sup>