

Supplementary Information for:

The Complexation of Rhodium(III) with Acyclic Diaminedithioether (DADTE)

Ligands

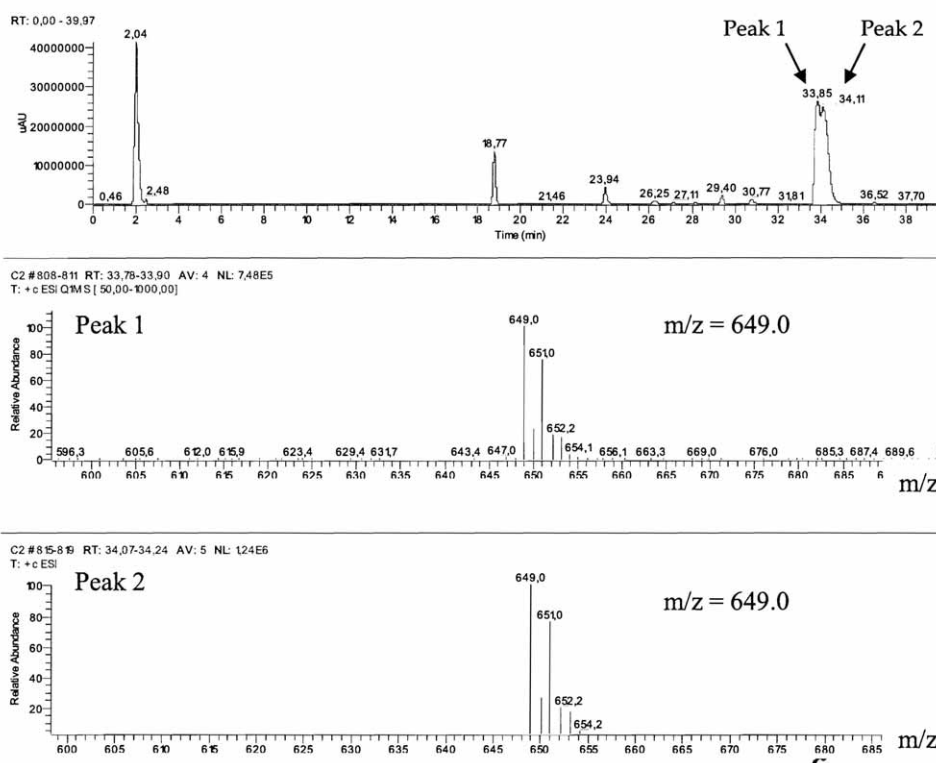
Zeynep Akgun, Hendrik Engelbrecht, Kuo-Hsien Fan, Charles Leslie Barnes,

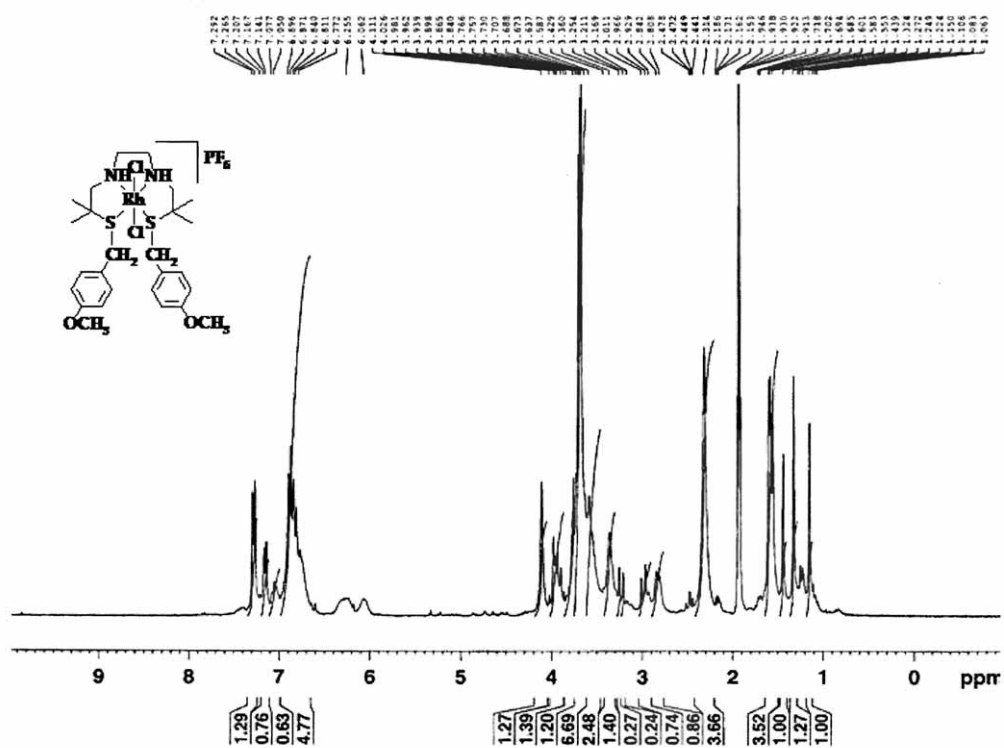
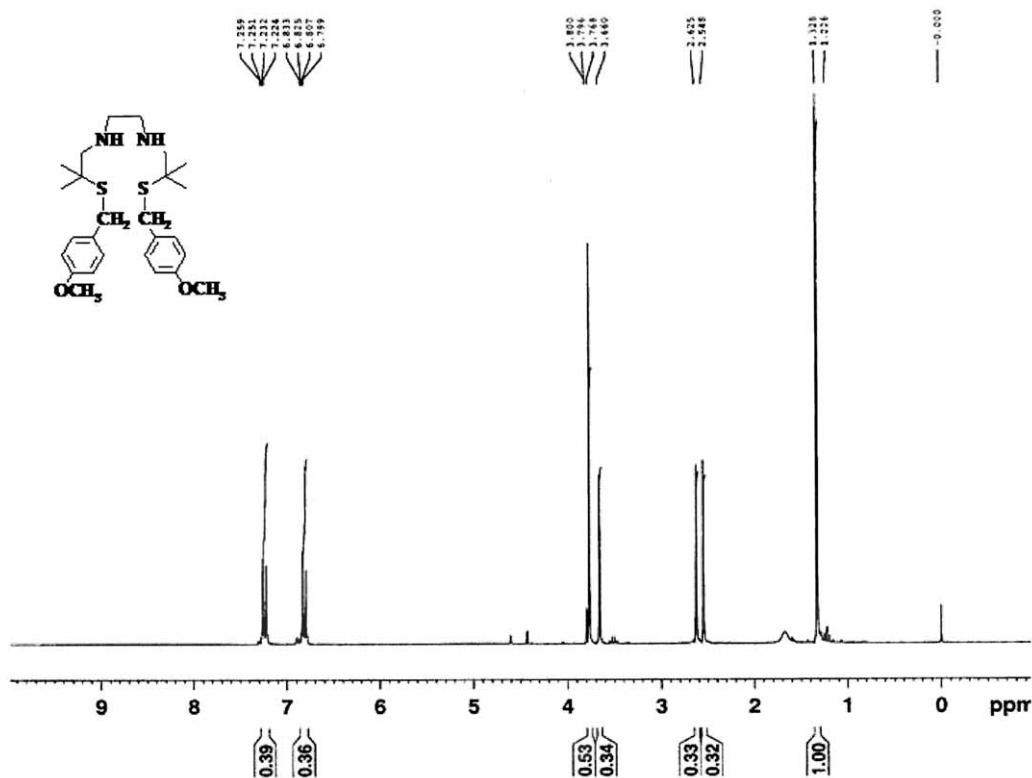
Cathy Sue Cutler, Silvia Sabine Jurisson, and Susan Zemyan Lever

LC-MS data of ^{105}Rh complexes

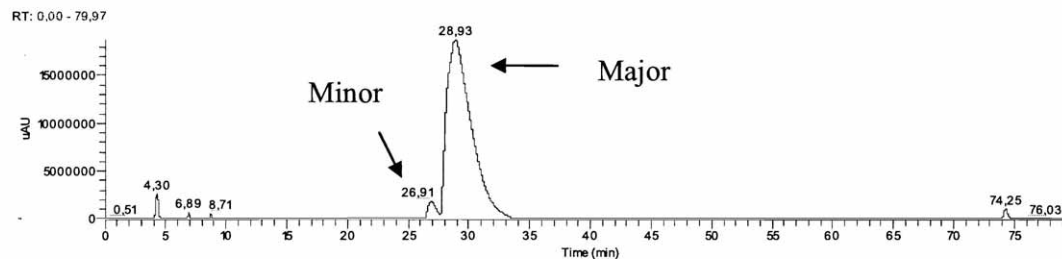
^1H NMR and ^{13}C NMR of ligands and complexes

Cis/trans-[Dichloro (*N, N*-bis-(2-(4-methoxybenzylthio)-2-methylpropyl)ethane-1,2-diamine) rhodium(III)] hexafluorophosphate. *cis/trans*-[RhCl₂(222-gdm-pmBz)]PF₆
[RhCl₂(**L2**)]PF₆.

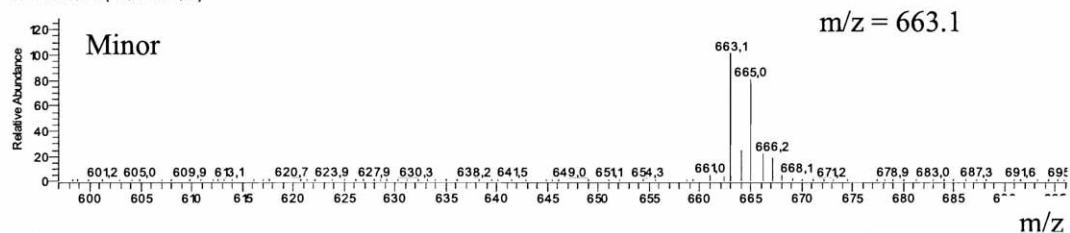




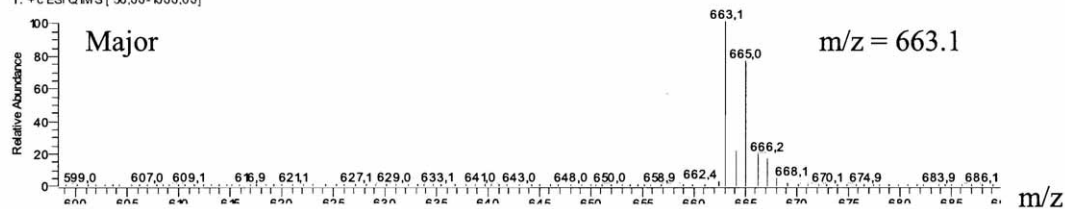
Cis/trans-[Dichloro (*N,N*-bis-(2-(4-methoxybenzylthio)-2-methylpropyl)propane-1,3-diamine) rhodium(III)] hexafluorophosphate. *cis/trans*-[RhCl₂(232-gdm-pmBz)]PF₆, [RhCl₂(**L3**)]PF₆.

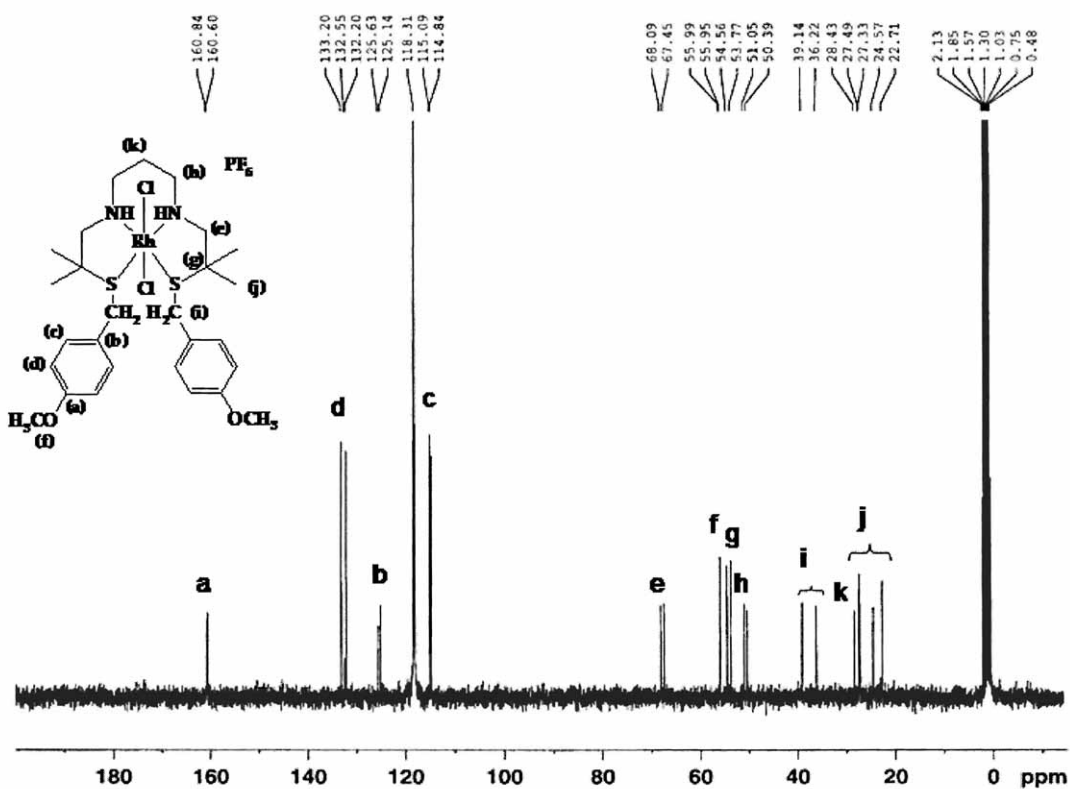
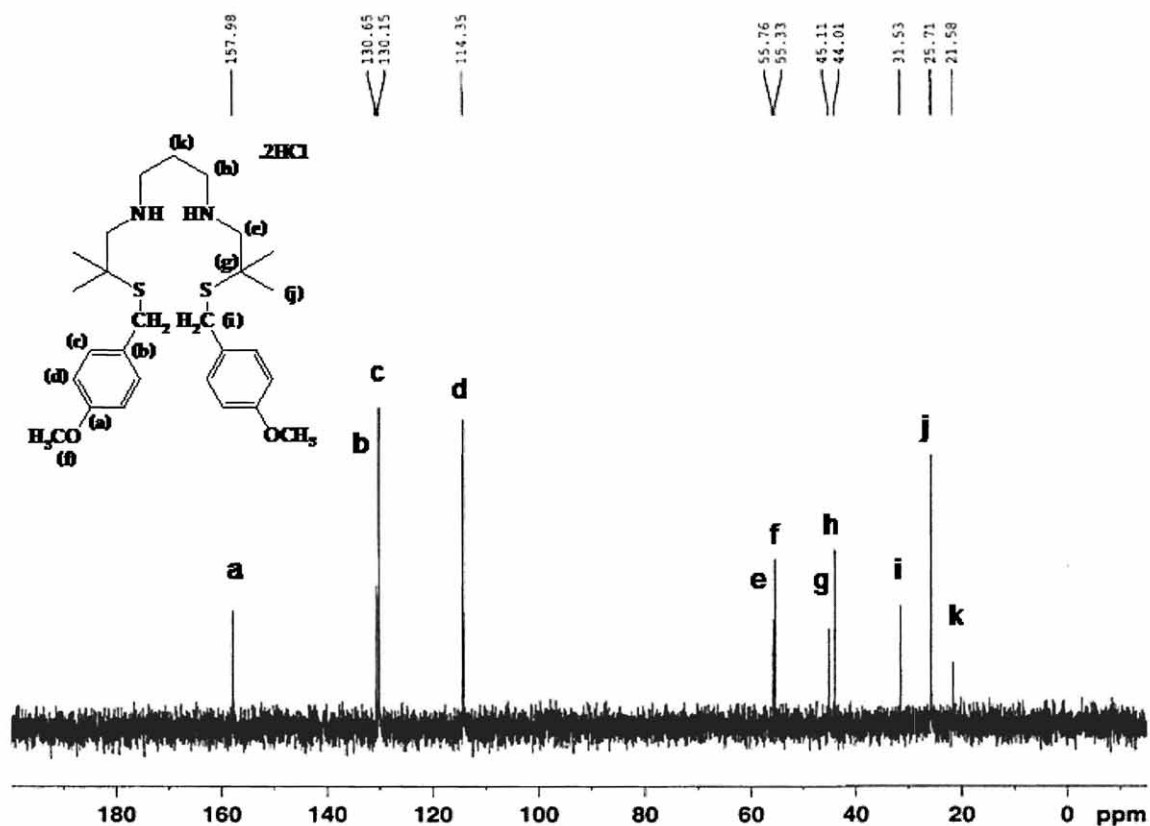


C3 lipophilic method #634-646 RT: 26.54-27.05 AV: 13 NL: 7.74E5
T: +c ESI QMS [50.00-1000.00]

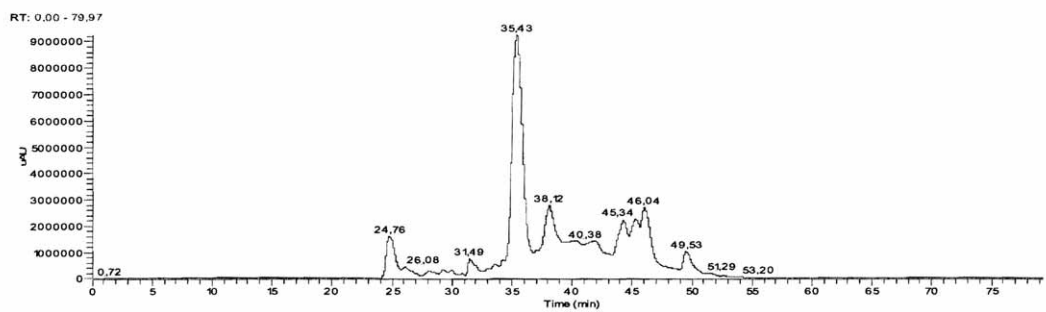


C3 lipophilic method #680-720 RT: 28.47-30.14 AV: 41 NL: 9.27E5
T: +c ESI QMS [50.00-1000.00]

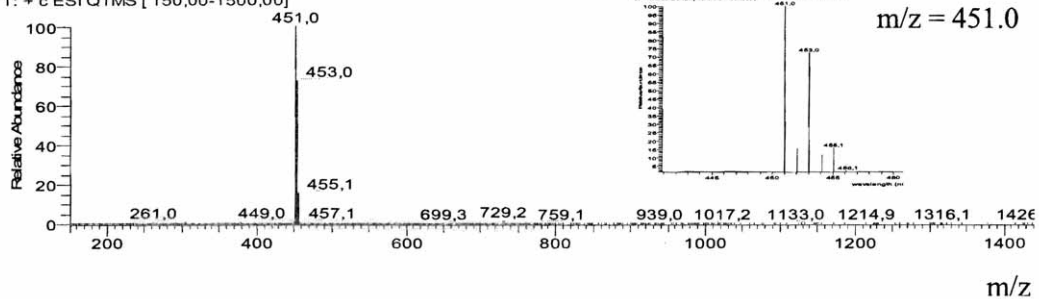


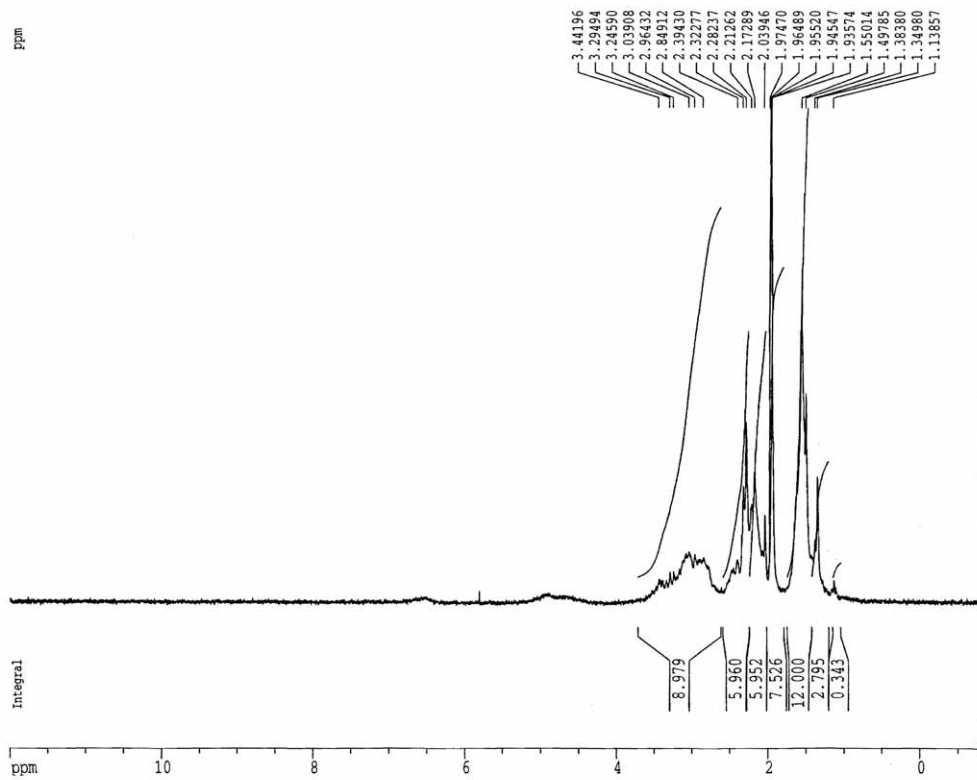
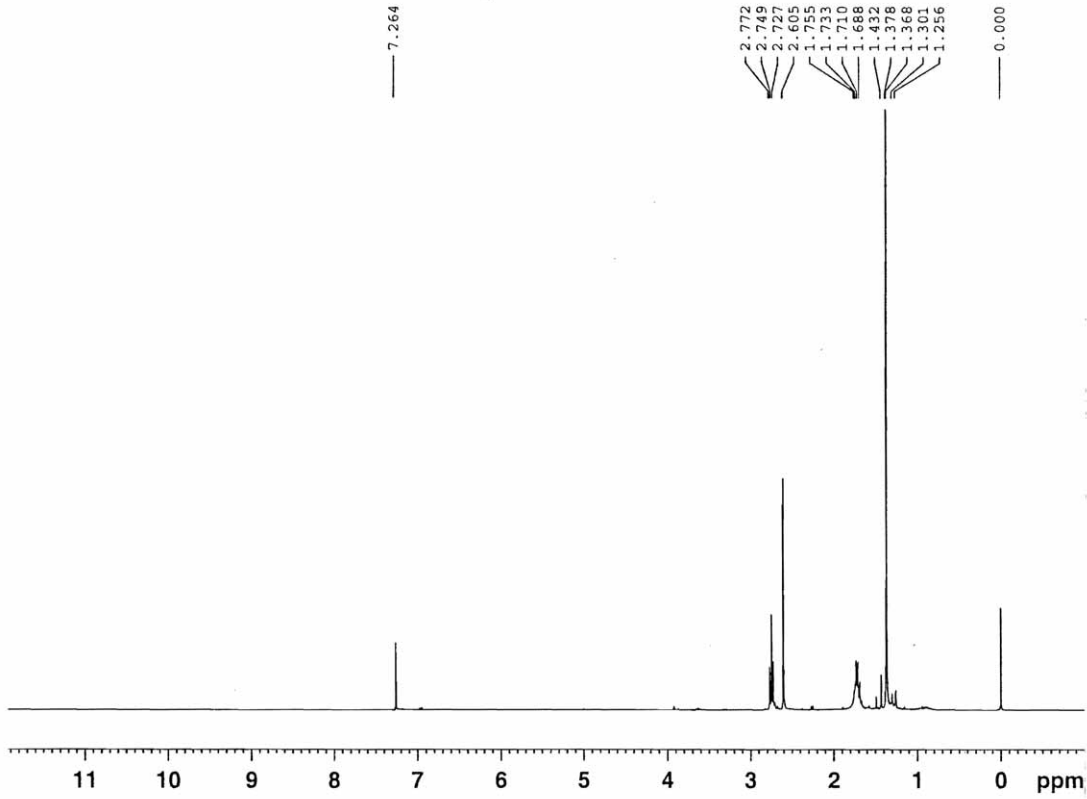


Cis/trans-[Dichloro (*N,N*-bis-(2-methyl-2-methylthio)propyl) propane-1,3-diamine) rhodium(III)] hexafluorophosphate. *cis/trans*-[RhCl₂(**L4**)]PF₆.

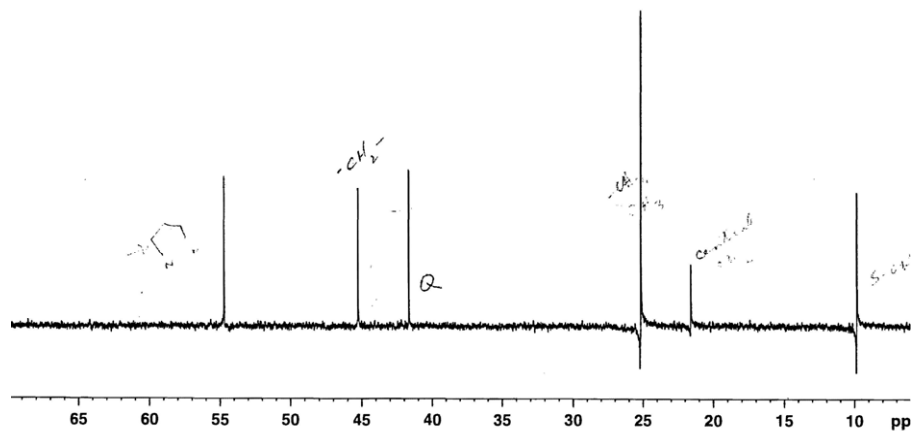


Z-comp #1043-1069 RT: 34.96-35.83 AV: 27 NL: 2,67E6
T: + c ESI Q1MS [150,00-1500,00]

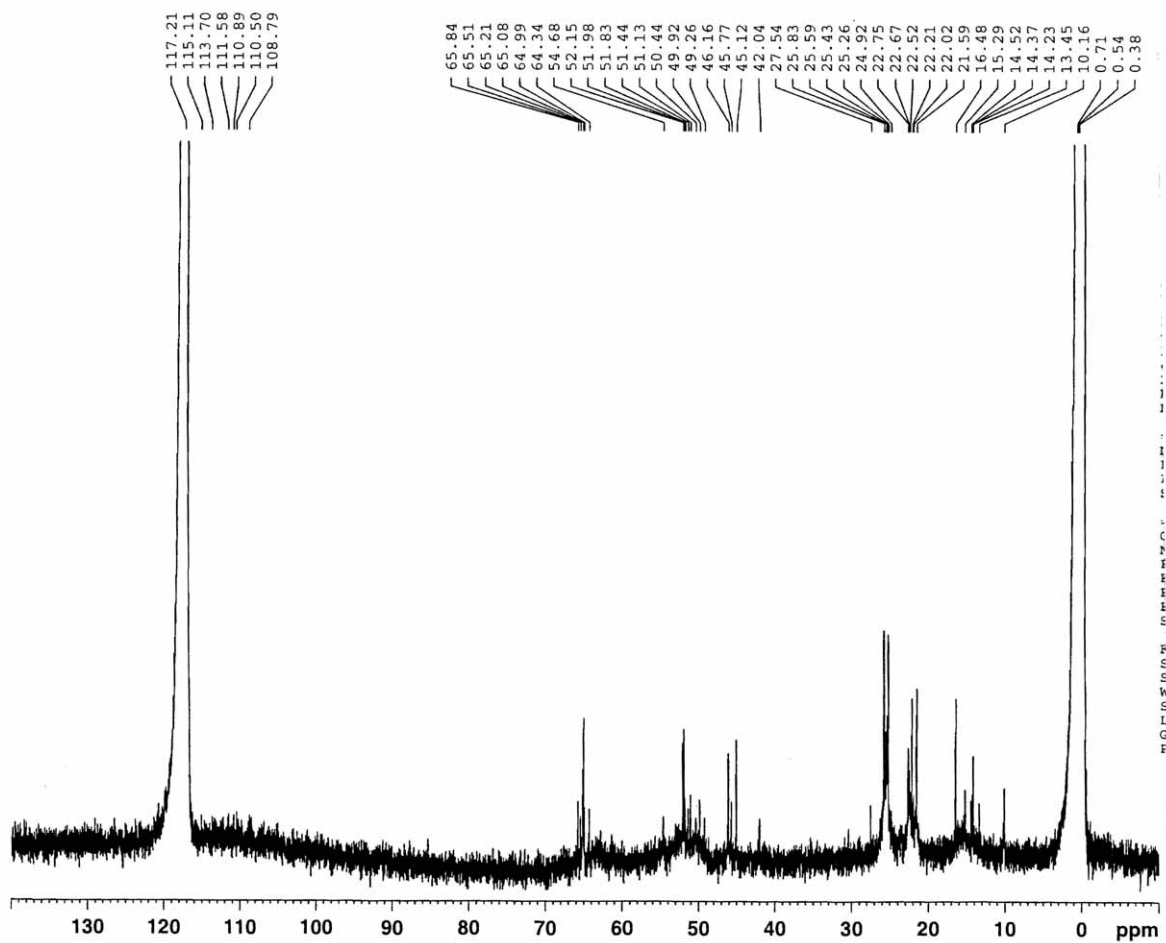




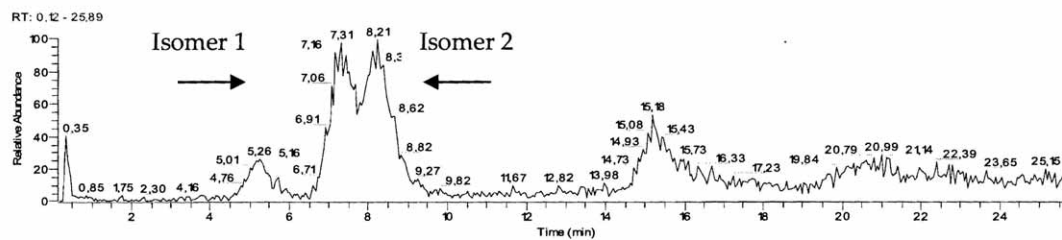
^{13}C spectrum of L4.



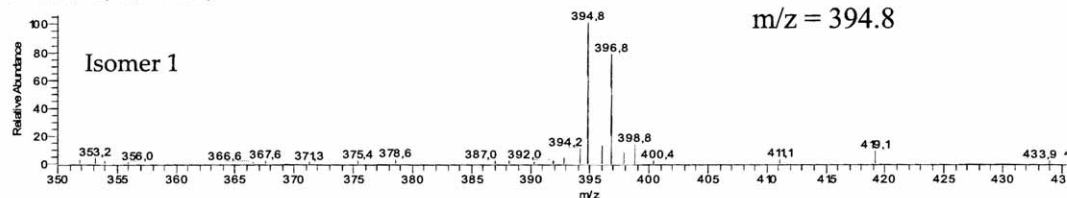
^{13}C spectrum of ^{105}Rh complex from L4 shown below.



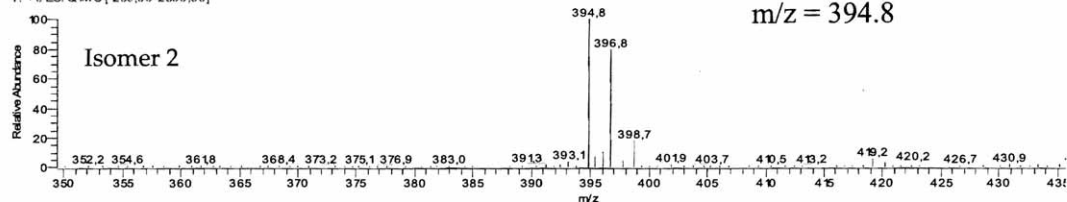
Cis/trans-[Dichloro (*N,N*-bis-(methylthio)ethyl) propane-1,3-diamine) rhodium(III)] hexafluorophosphate. *cis/trans*-[RhCl₂(L5)]PF₆.

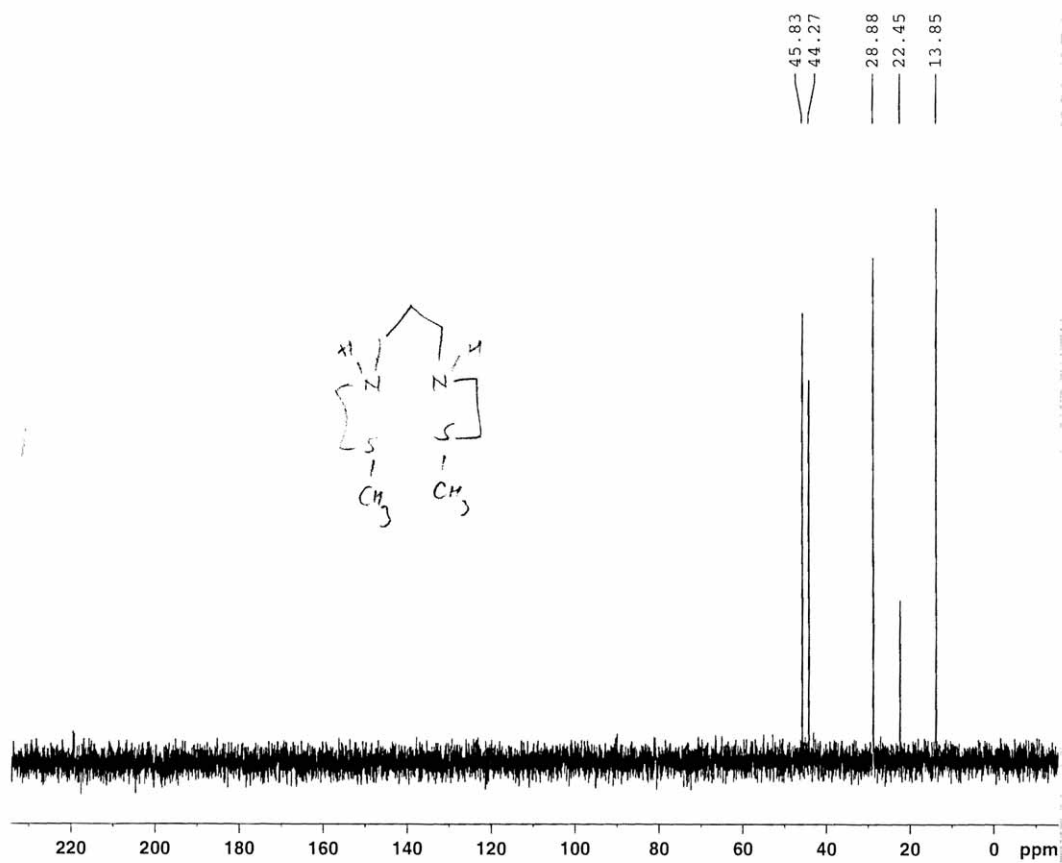
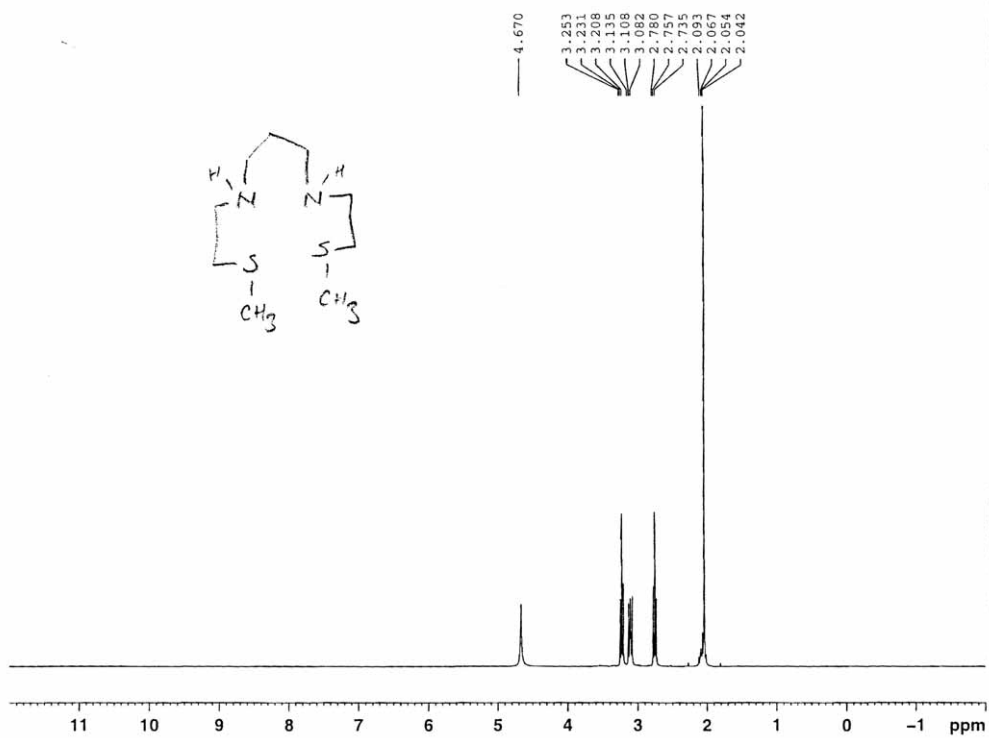


ZC32-dil-std # 150 RT: 7.51 AV: 1 NL: 2.86E4
T: +c ESI QMS [250.00-2500.00]

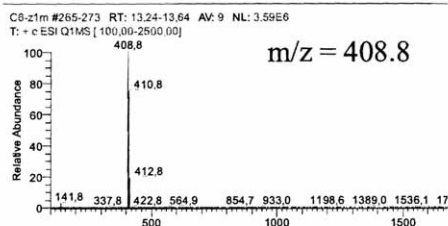
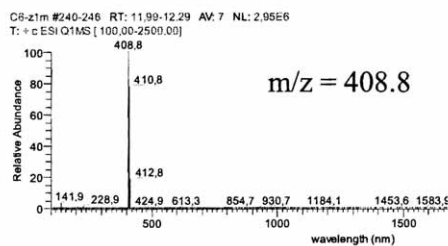
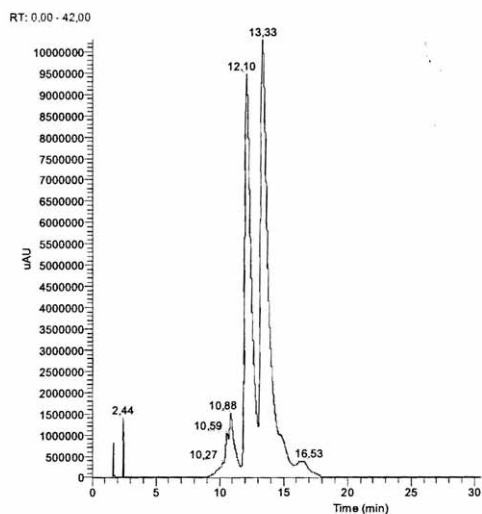


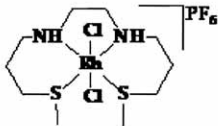
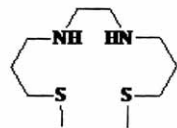
ZC32-dil-std # 157-166 RT: 7.86-8.32 AV: 10 NL: 2.95E4
T: +c ESI QMS [250.00-2500.00]

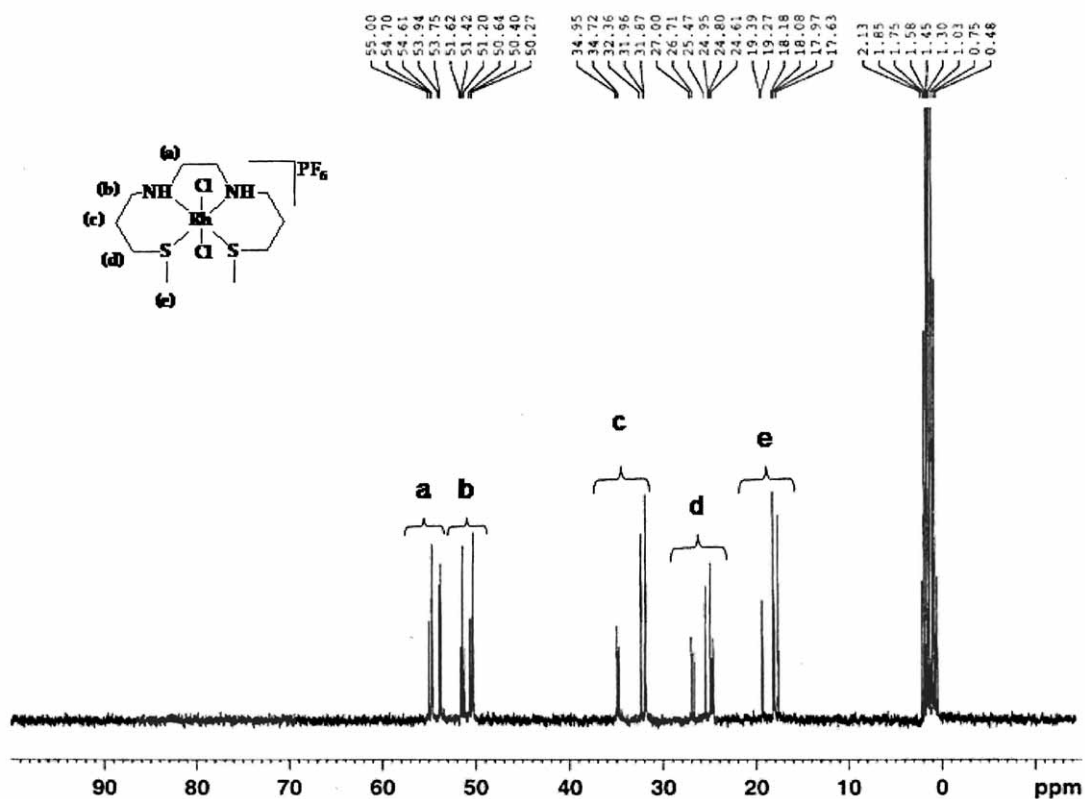
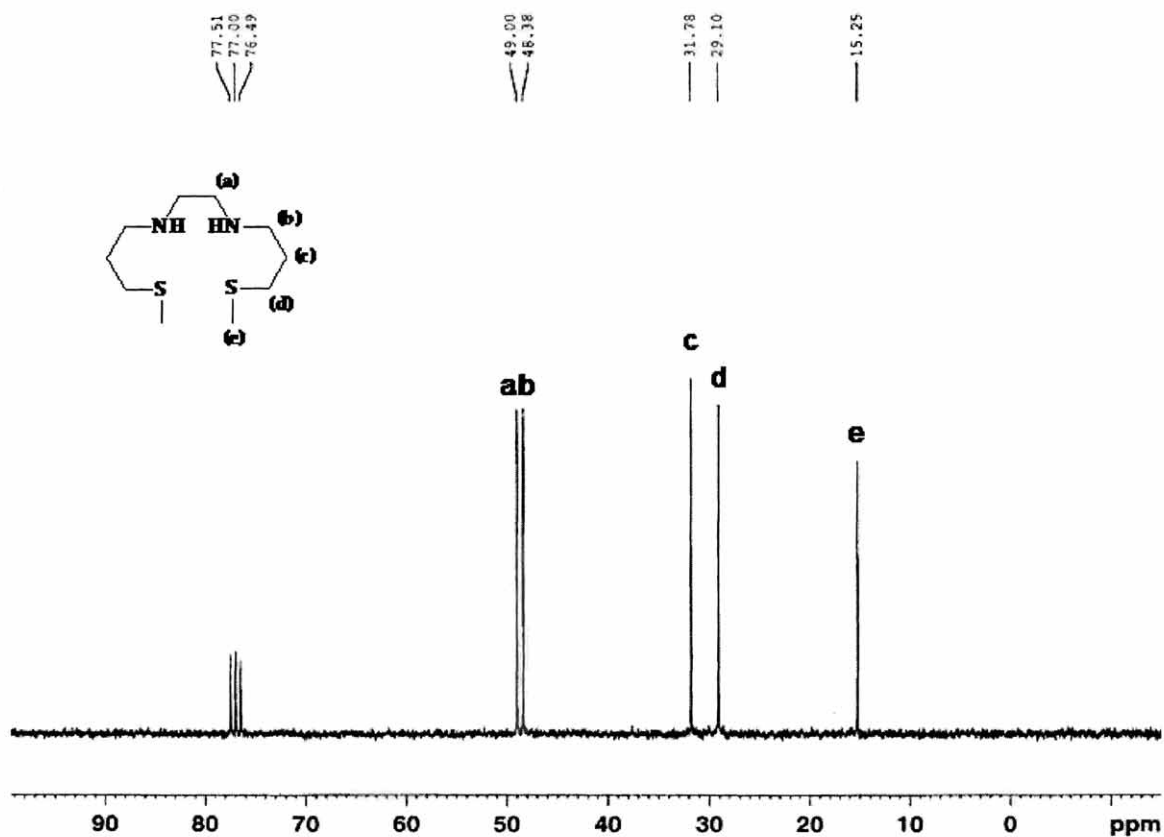




Cis/trans-[Dichloro (*N,N*-bis-(3-methylthio)propyl) ethane-1,2-diamine) rhodium(III)] hexafluorophosphate. *cis/trans*-[RhCl₂(L6)]PF₆.







Cis/trans-[Dichloro (*N,N*-bis-(3-methylthio)propyl) propane-1,3-diamine) rhodium(III)] hexafluorophosphate. *cis/trans*-[RhCl₂(L7)]PF₆.

