## **Supporting Information-II**

## Catalytically Active Lead-Azolium Coordination Assemblies with Diversified Lead(II) Coordination Environments

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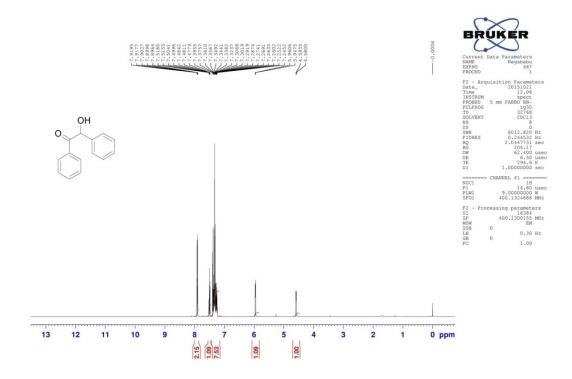


Figure S1. Table 2, Entry 1.

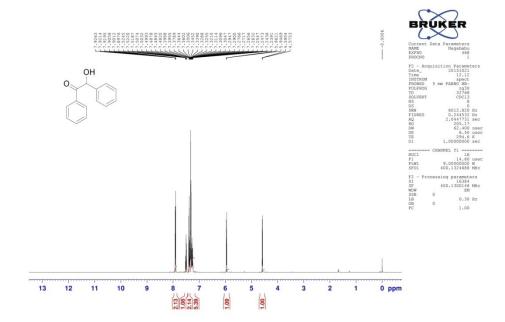


Figure S2. Table 2, Entry 2.

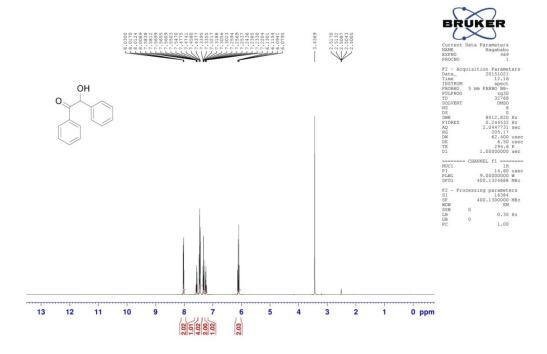


Figure S3. Table 2, Entry 3.

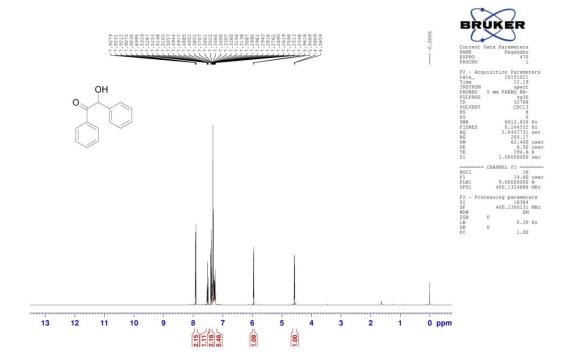


Figure S4. Table 2, Entry 4.

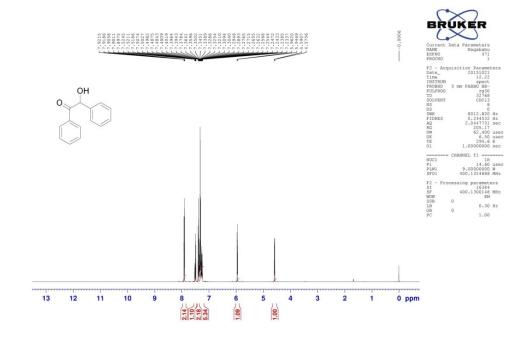


Figure S5. Table 2, Entry 5.

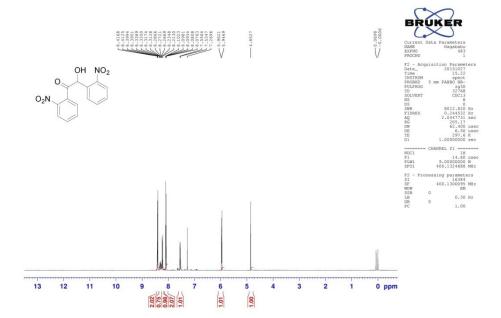


Figure S6. Table 3, Entry 1.

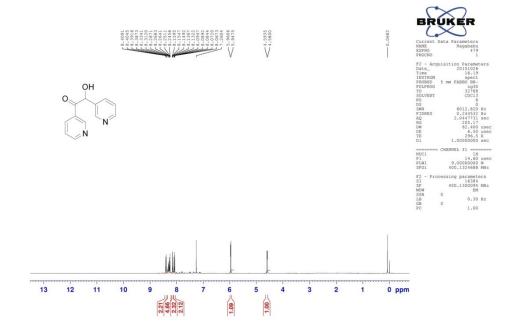


Figure S7. Table 3, Entry 2.

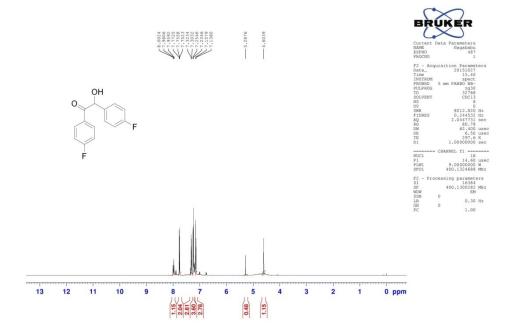


Figure S8. Table 3, Entry 3.

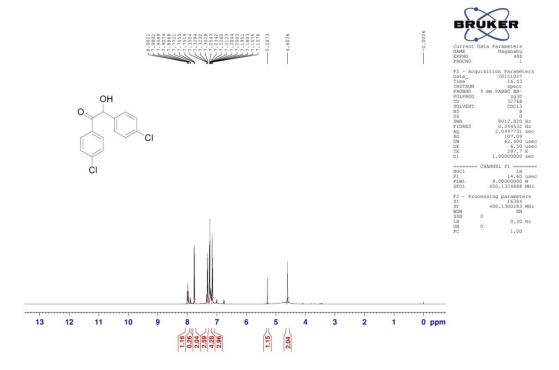


Figure S9. Table 3, Entry 4.

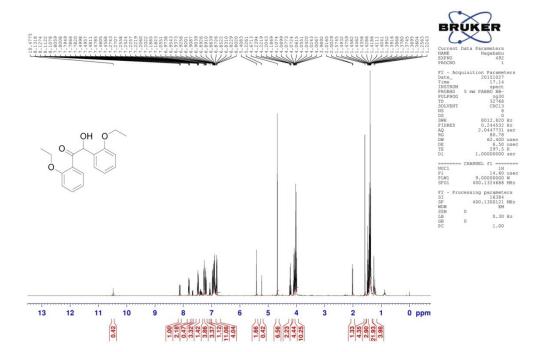


Figure S10. Table 3, Entry 5.

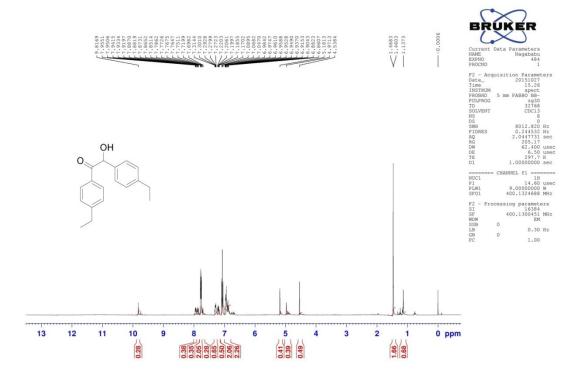


Figure S11. Table 3, Entry 6.

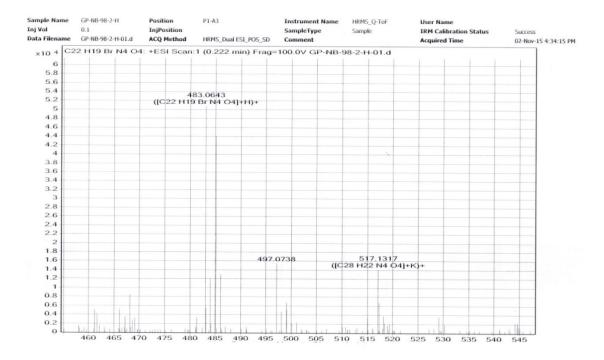
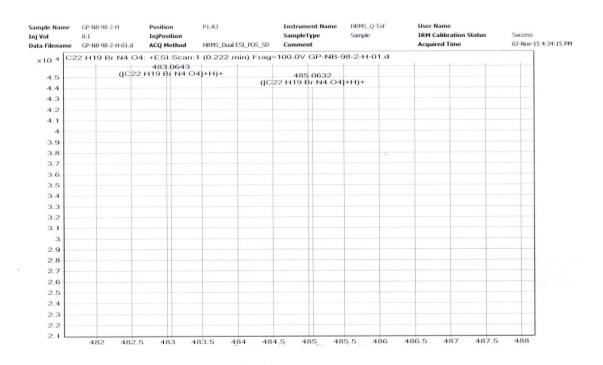


Figure S12. HRMS(+ESI) spectrum of L<sup>2</sup>H<sub>2</sub>Br<sub>2</sub>.



**Figure S13.** HRMS(+ESI) spectrum of L<sup>2</sup>H<sub>2</sub>Br<sub>2</sub>.

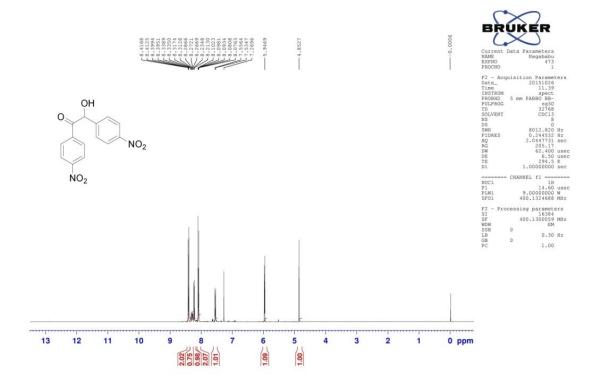


Figure S14. Table S2, Entry 1 First run.

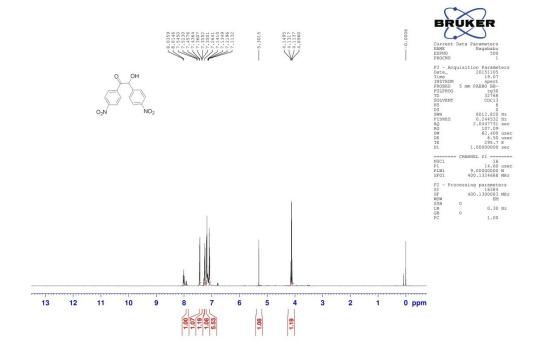


Figure S15. Table S2, Entry 1 Second run.

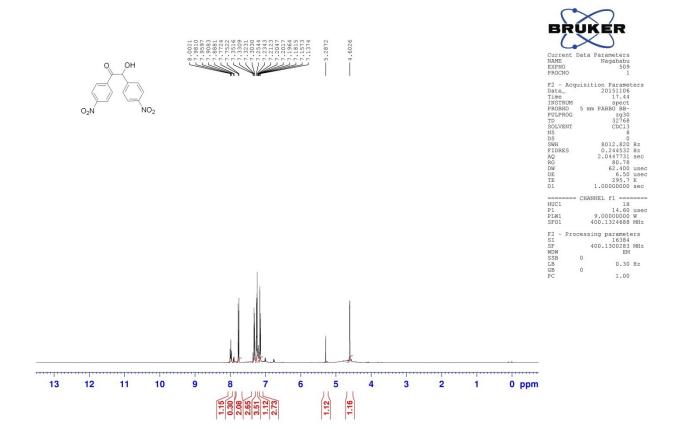


Figure S16. Table S2, Entry 1 Third run.

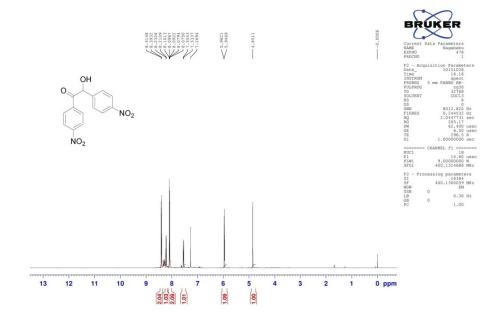


Figure S17. Table S2, Entry 2 First run.

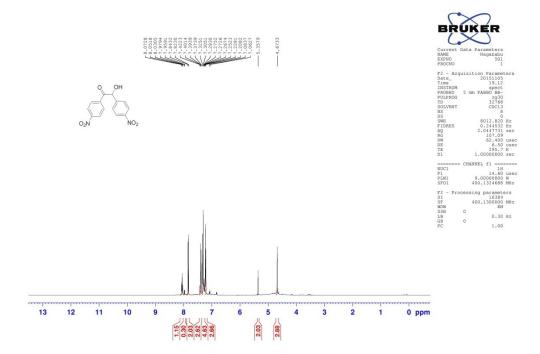


Figure S18. Table S2, Entry 2 Second run.

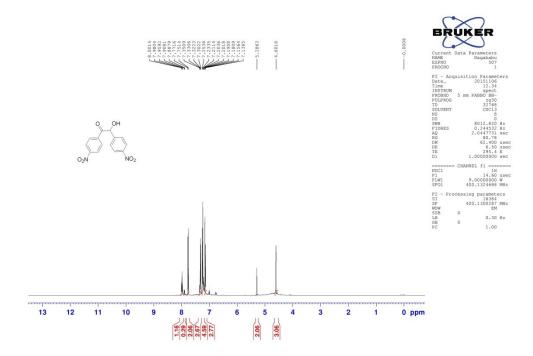


Figure S19. Table S2, Entry 2 Third run.

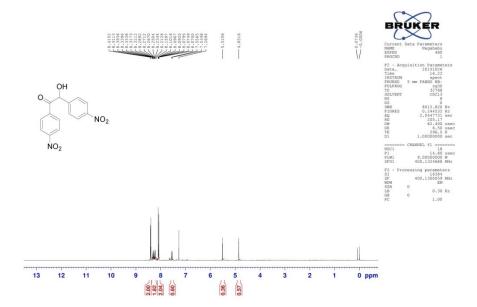


Figure S20. Table S2, Entry 3 First run.

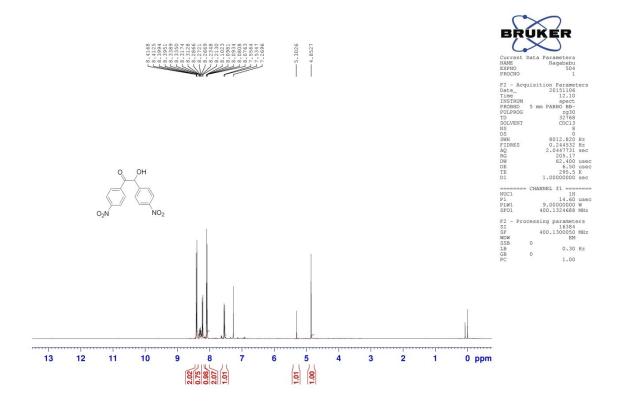


Figure S21. Table S2, Entry 3 Second run.

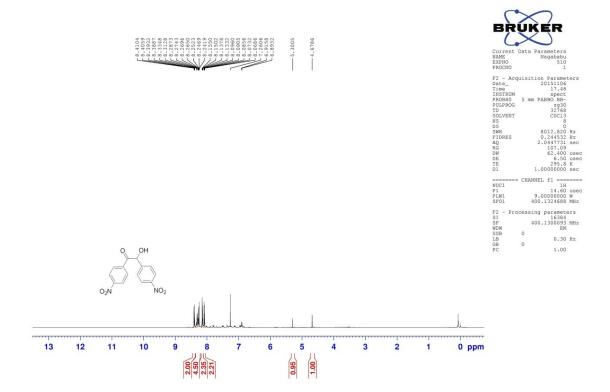


Figure S22. Table S2, Entry 3 Third run.

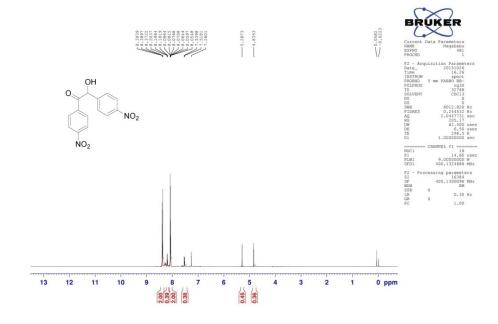


Figure S23. Table S2, Entry 4 First run.

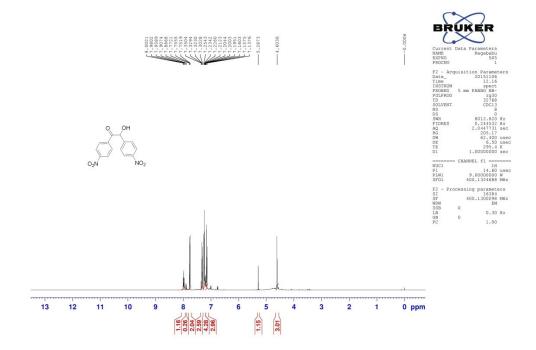


Figure S24. Table S2, Entry 4 Second run.

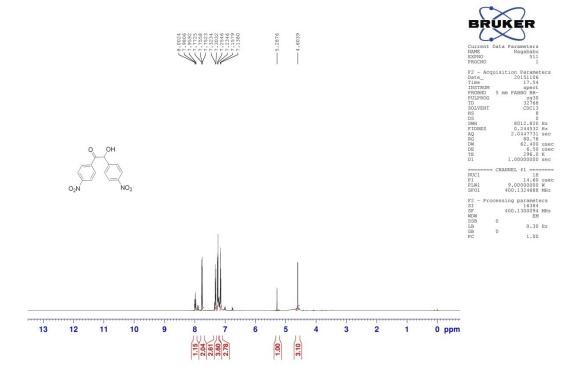


Figure S25. Table S2, Entry 4 Third run.

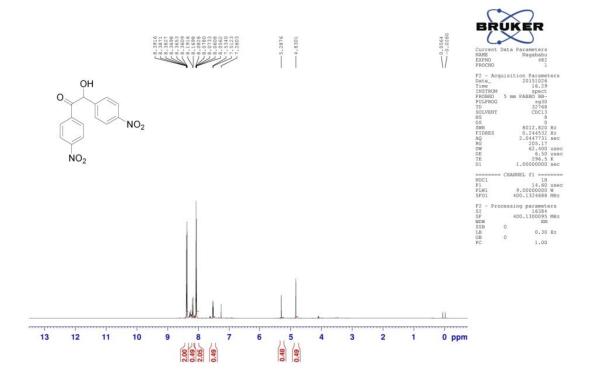


Figure S26. Table S2, Entry 5 First run.

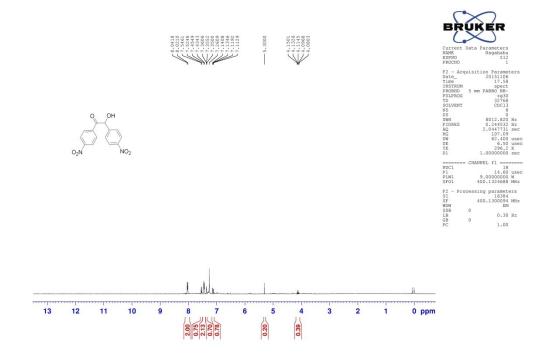


Figure S27. Table S2, Entry 5 Second run.

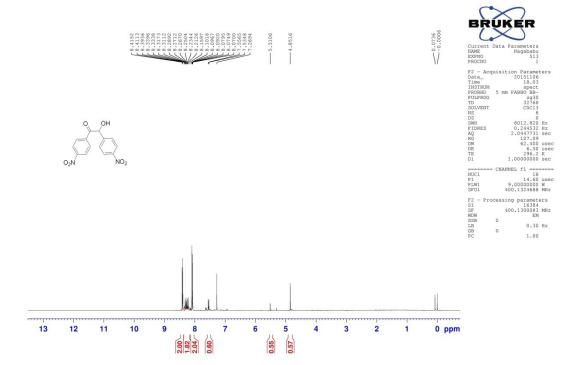


Figure S28. Table S2, Entry 5 Third run.