Supplementary Information

Project 1

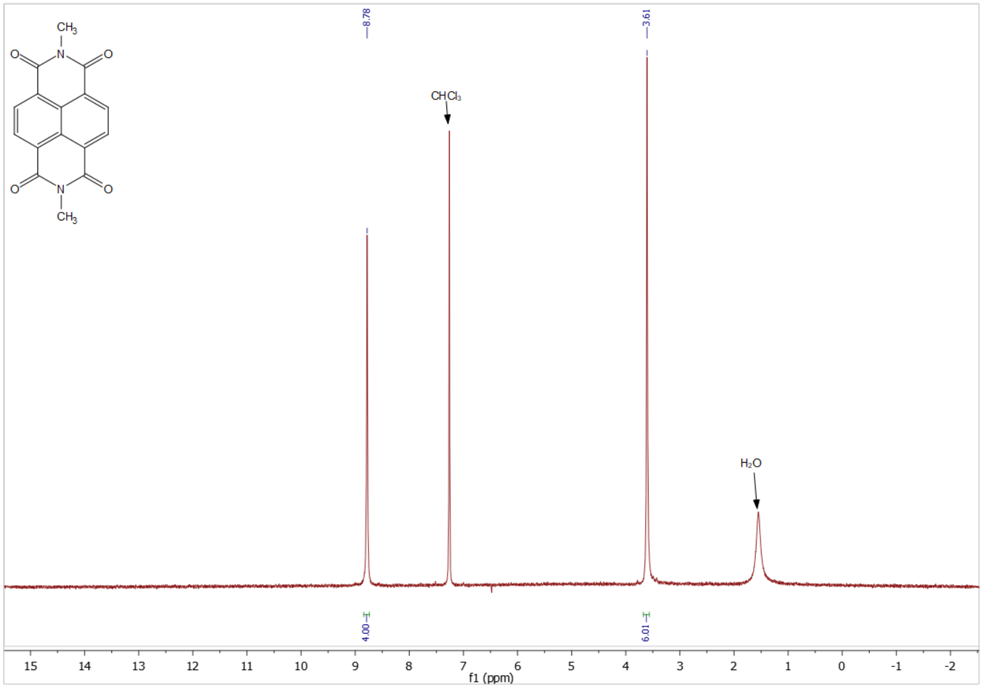

Figure 1. ^{1}H NMR of NDI (1) in $CDCl_3$.

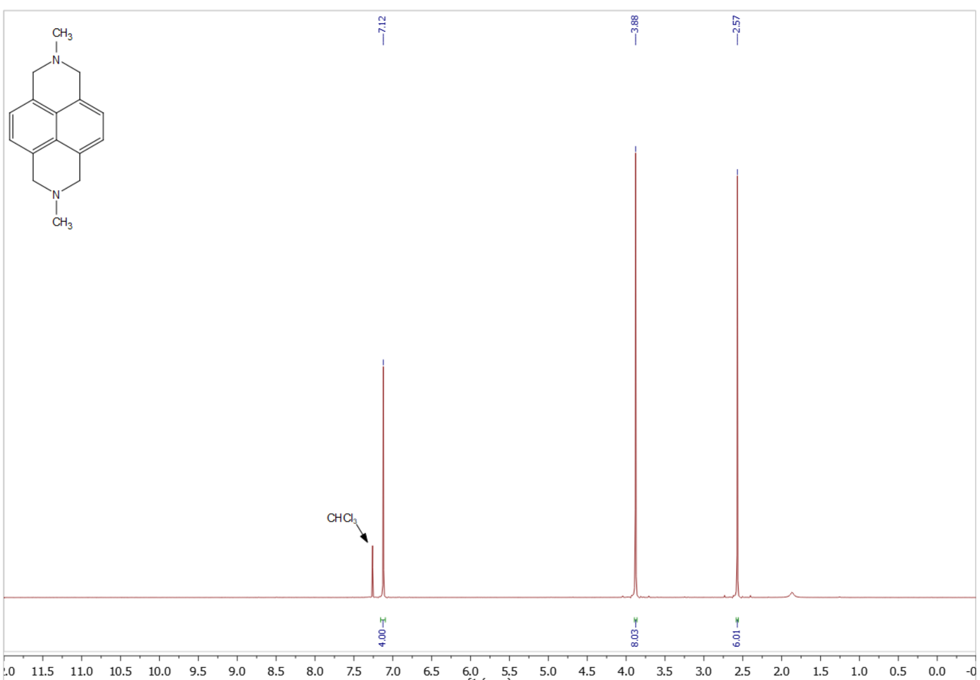

Figure 2. ^{1}H NMR of 1,3,6,8-tetrahydro-2,7-dimethyl-2,7-diazapyrene (2) in $CDCl_3$.

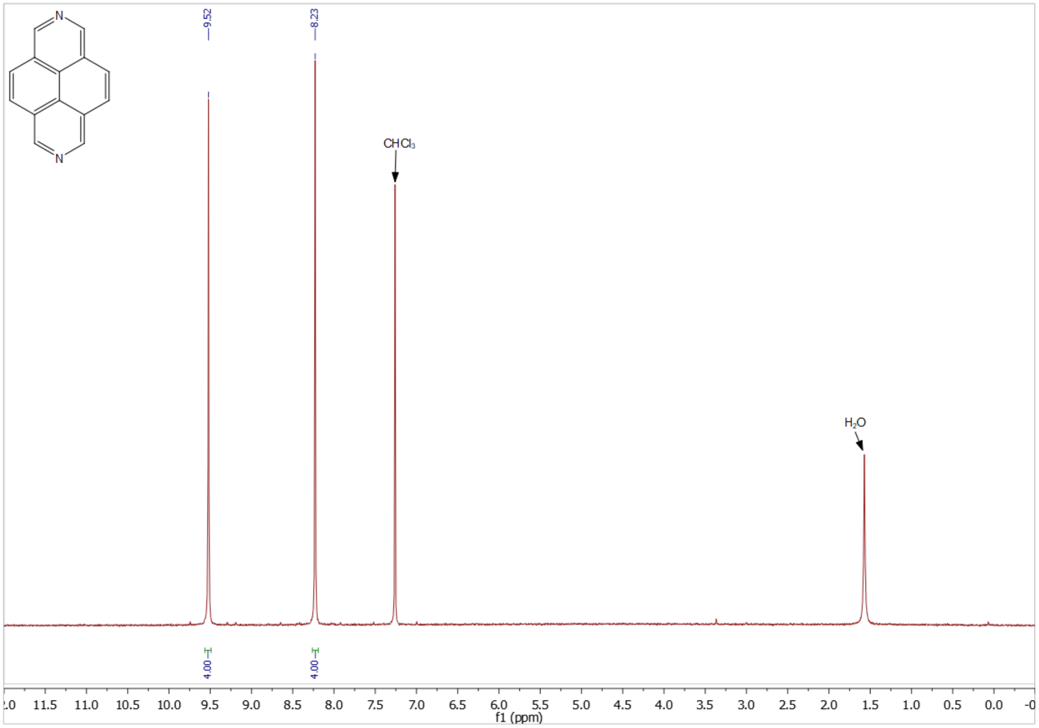

Figure 3. ^{1}H NMR of 2,7-diazapyrene (3) in $CDCl_3$.

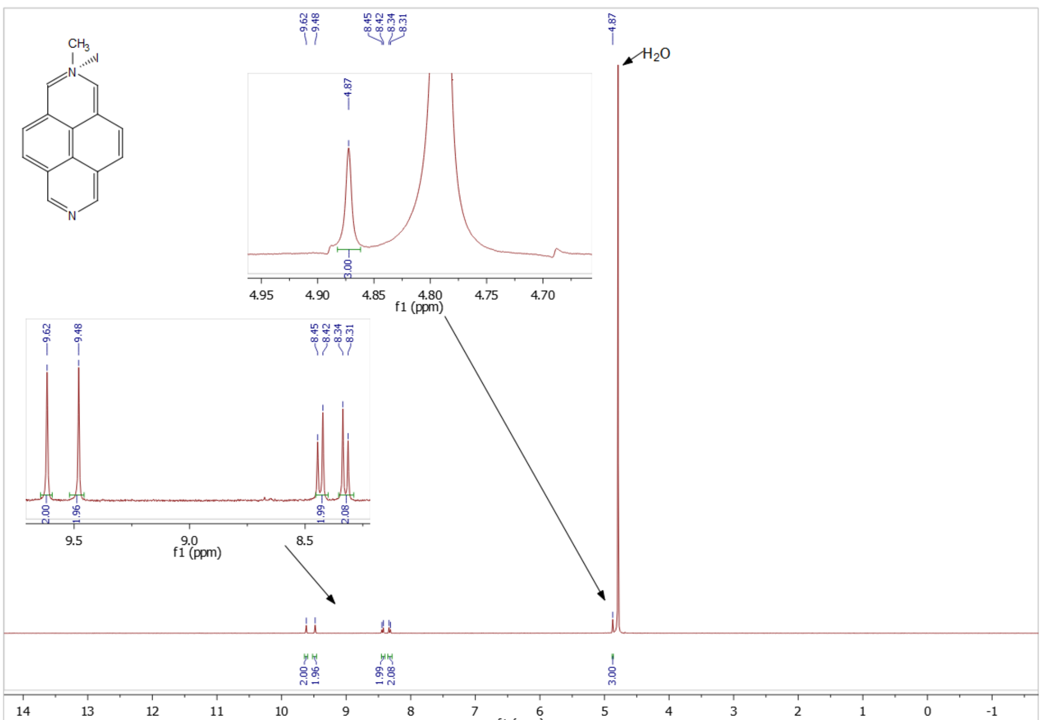

Figure 4. ^{1}H NMR of N-methyl-2,7-diazapyrenium iodide in D_2O.

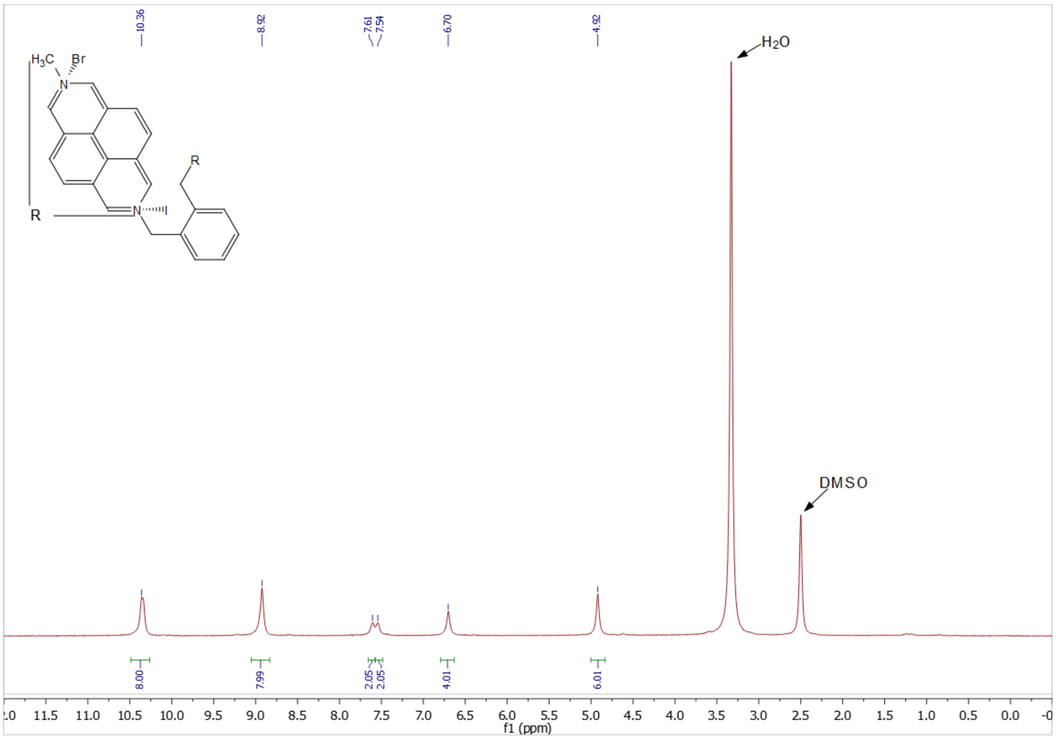

Figure 5. [1]H NMR of *o*-1,2-benzyl-bis(7-methyl-2,7-diazapyrenium) dibromide diioide in $(CD_3)_2SO$

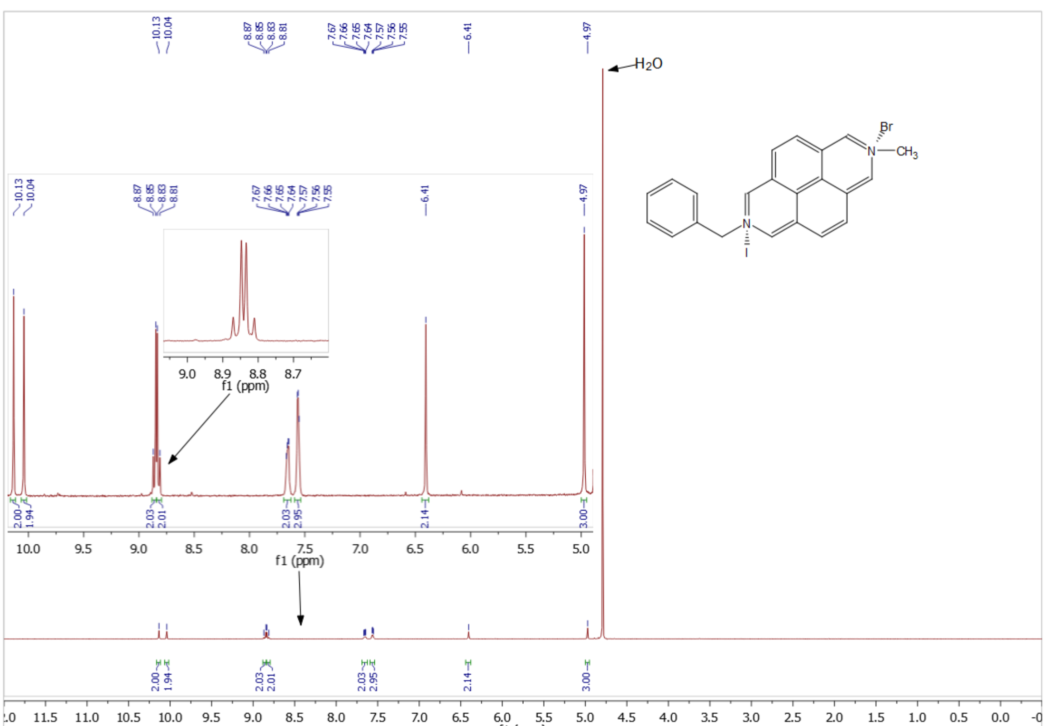

Figure 6. [1]H NMR of 2-benzyl-7-methyl-2,7-diazapyrenium bromide iodide in D_2O.

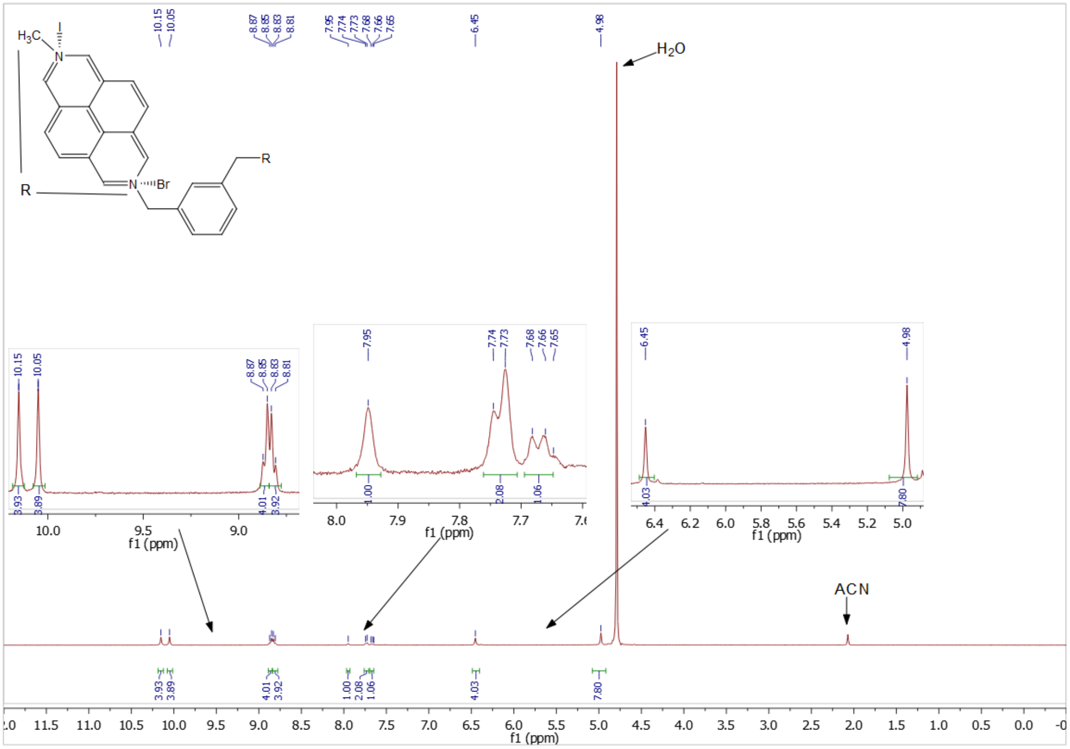

Figure 7. [1]H NMR of *m*-1,3-benzyl-bis(7-methyl-2,7-diazapyrenium) dibromide diiodide in D_2O.

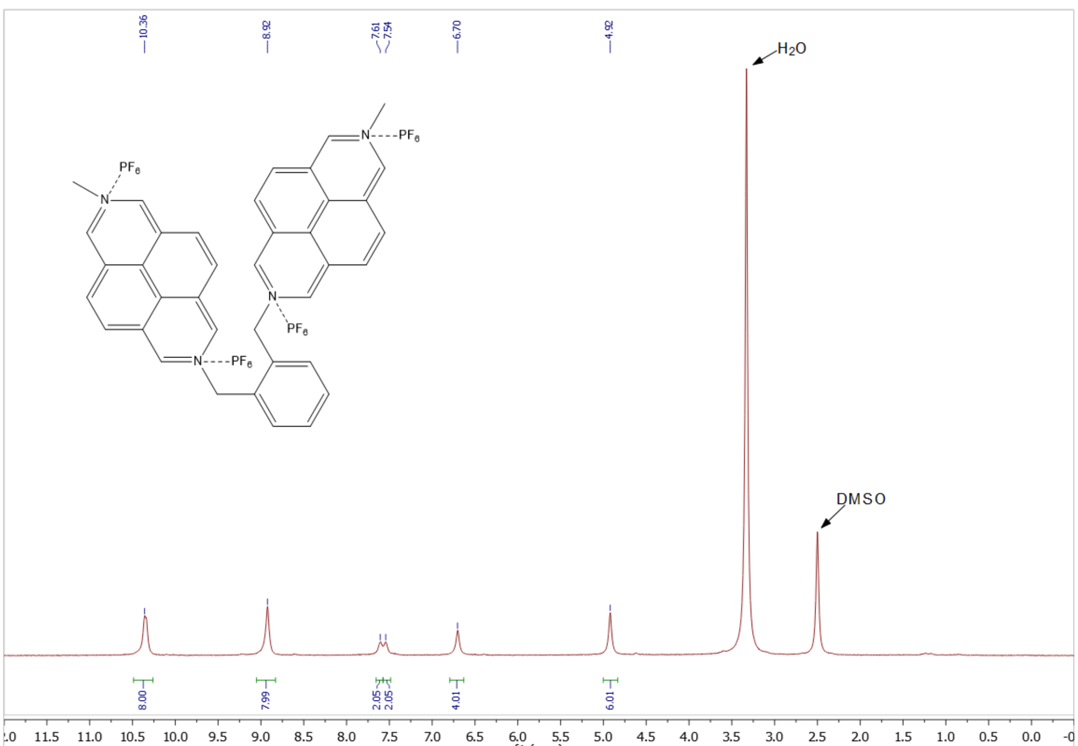

Figure 8. [1]H NMR of *o*-1,2-benzyl-bis(7-methyl-2,7-diazapyrenium) tetrahexafluorophosphate in $(CD_3)_2SO$

Project 2

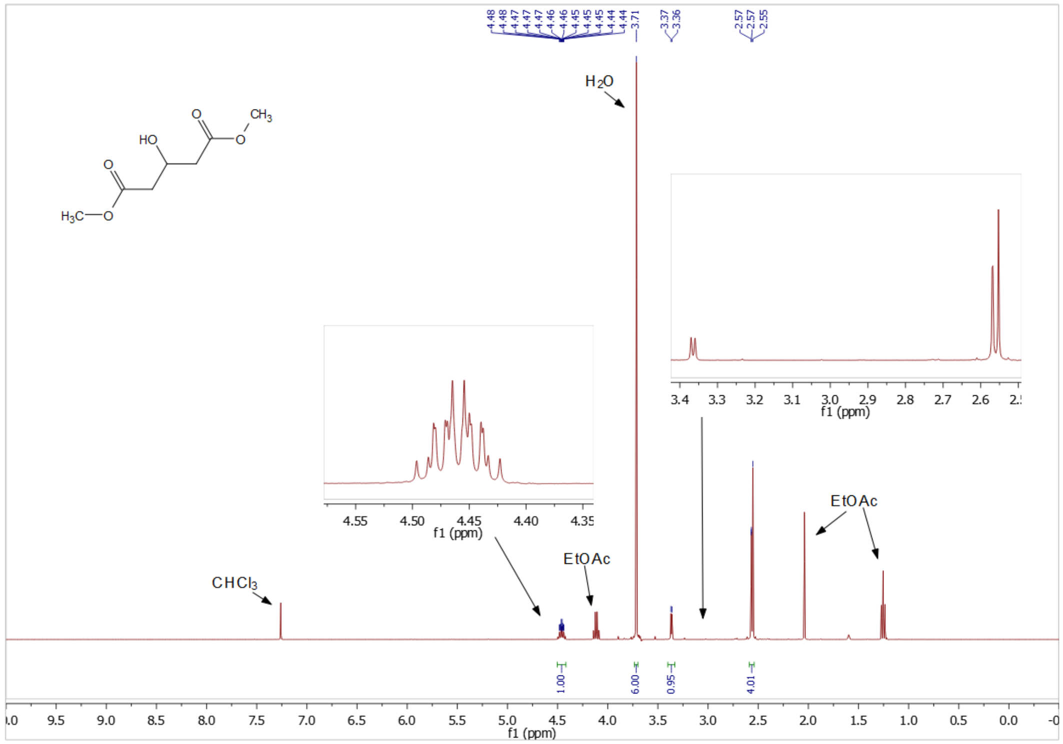

Figure 9. ^{1}H NMR of dimethyl-3-hydroxypentadioate in $CDCl_3$

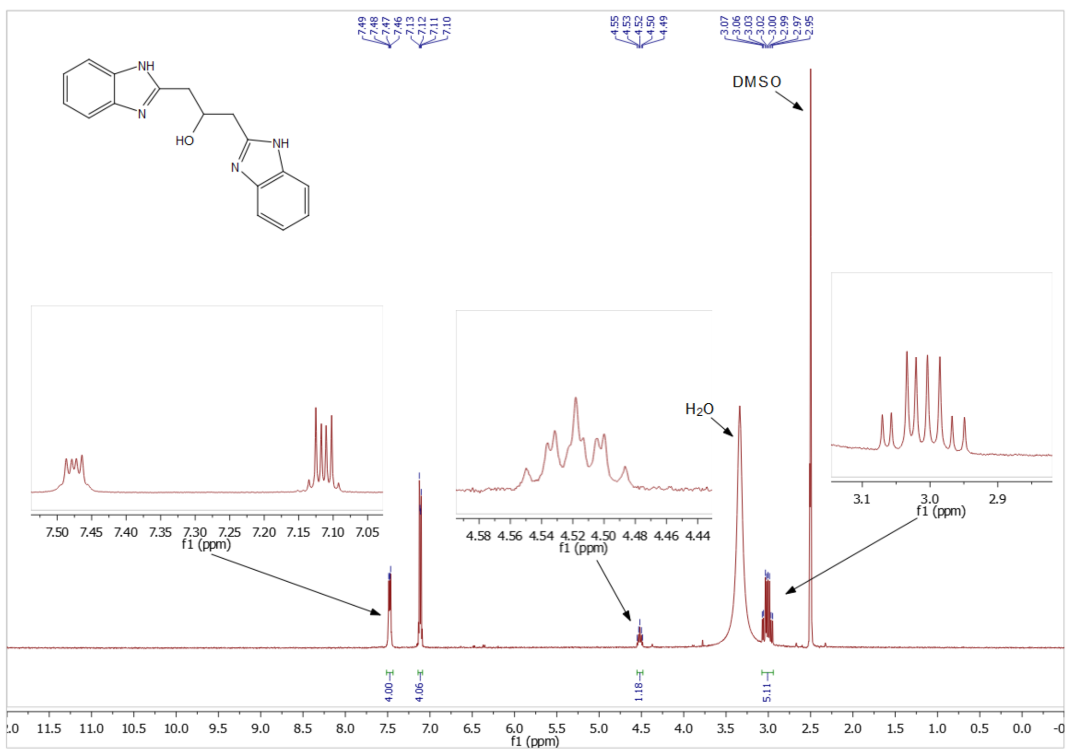

Figure 10. ^{1}H NMR of 1,5-bis(2-benzimidazole)-3-pentanol in $(CD_3)_2CO$.

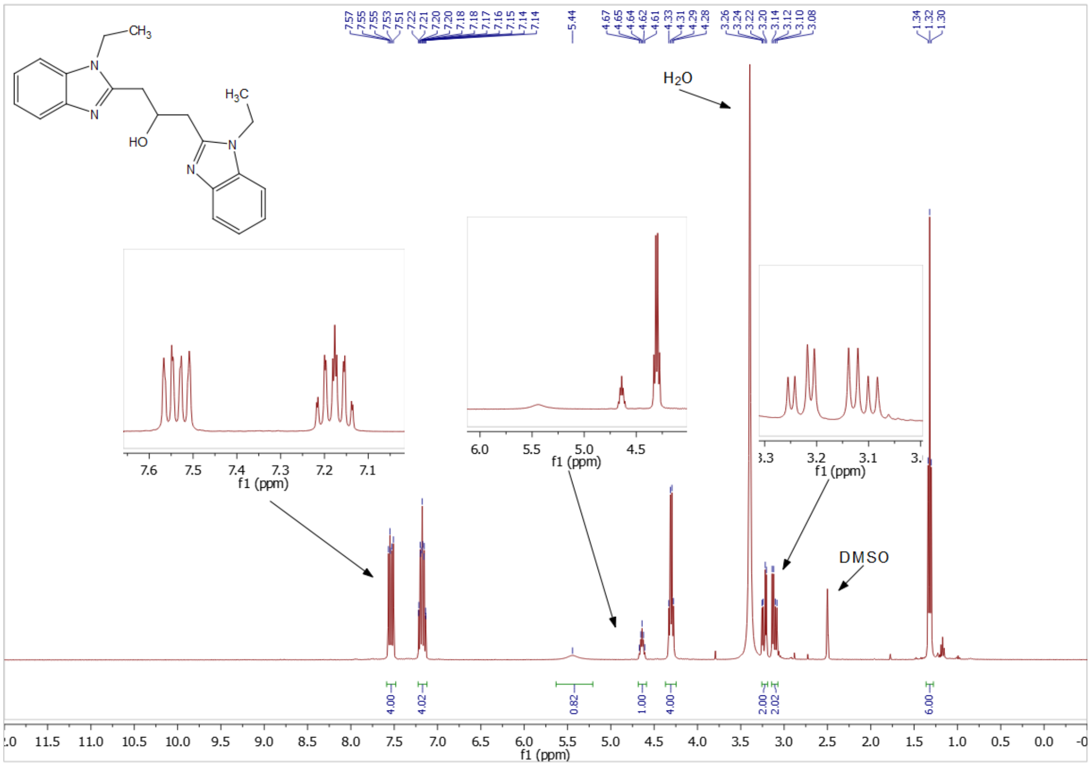

Figure 11. ^{1}H NMR of 1,3-bis(1-ethyl-2-benzimidazole)-2-propanol in $(CD_3)_2CO$.

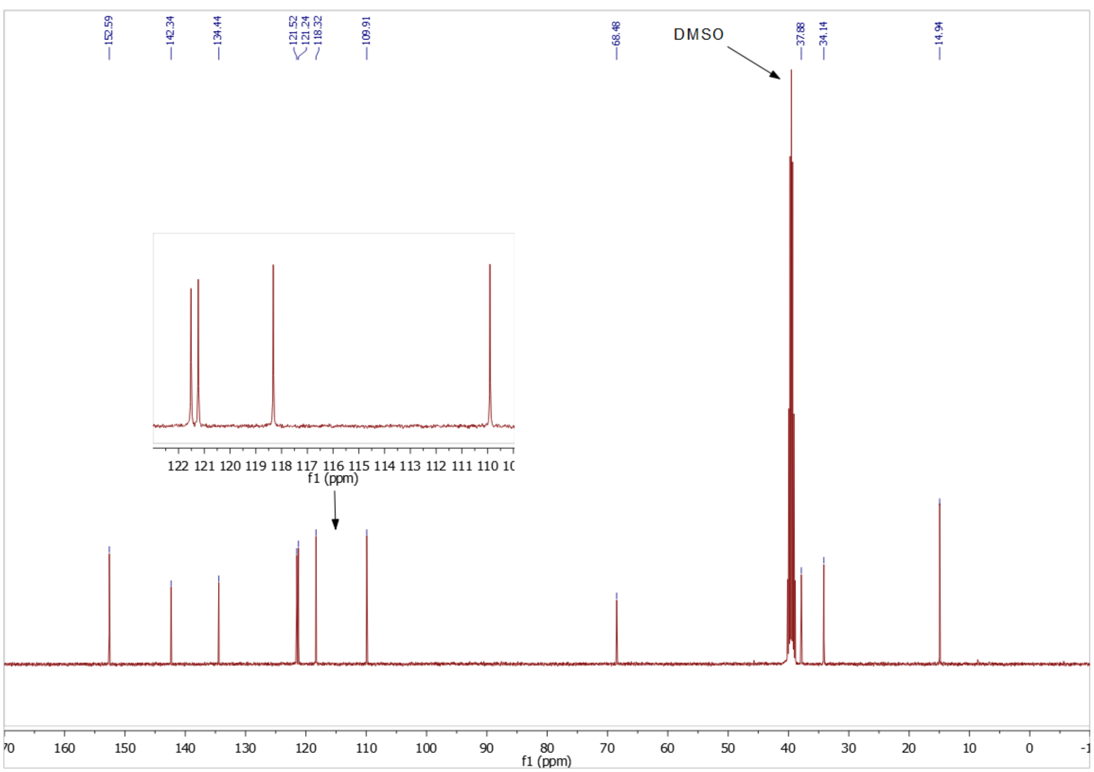

Figure 12. ^{13}C NMR of 1,3-bis(1-ethyl-2-benzimidazole)-2-propanol in $(CD_3)_2CO$.

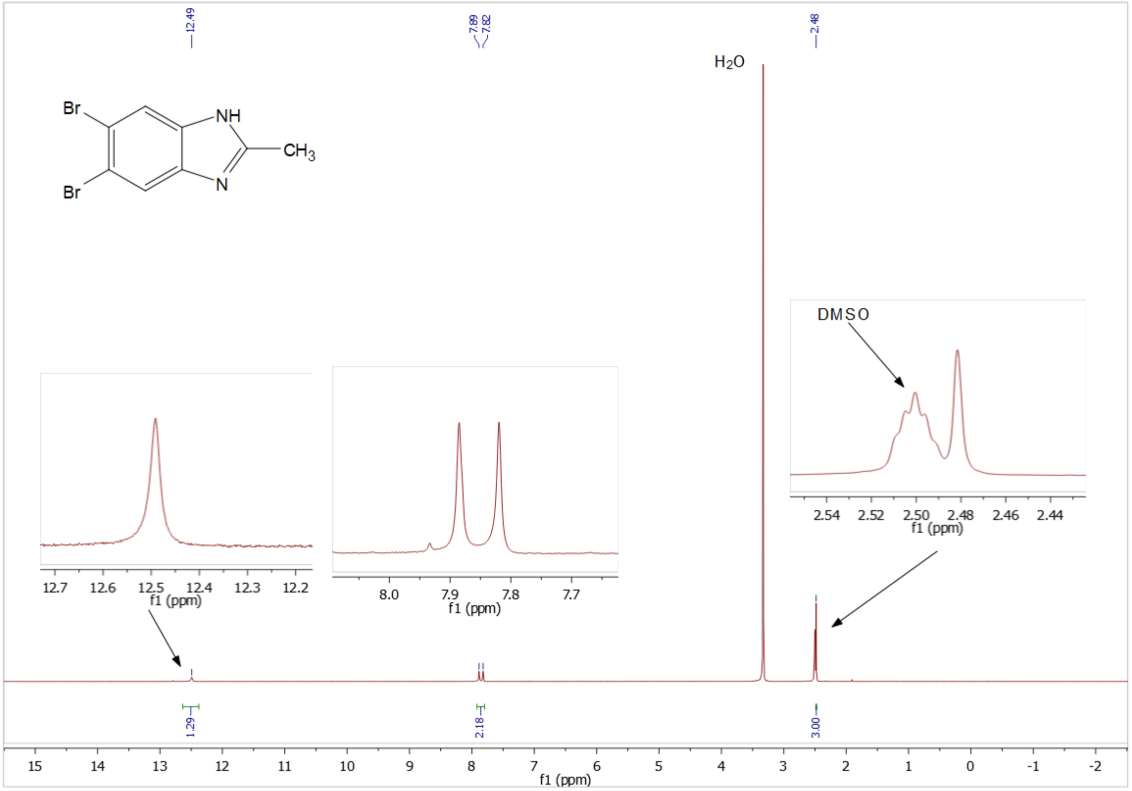

Figure 13. [1]H NMR of 5,6-dibromo-2-methylbenzimidazole in $(CD_3)_2CO$.

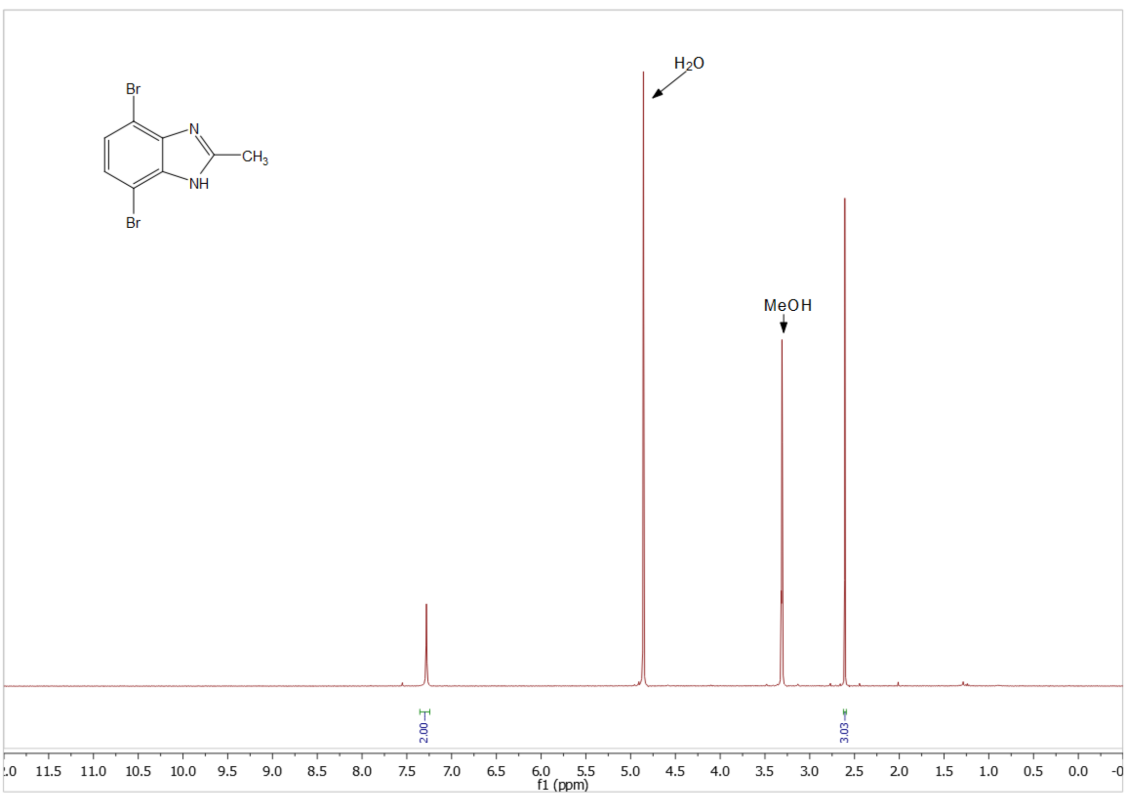

Figure 14. [1]H NMR of 4,7-dibromo-2-methylbenzimidazole in CD_3OD.

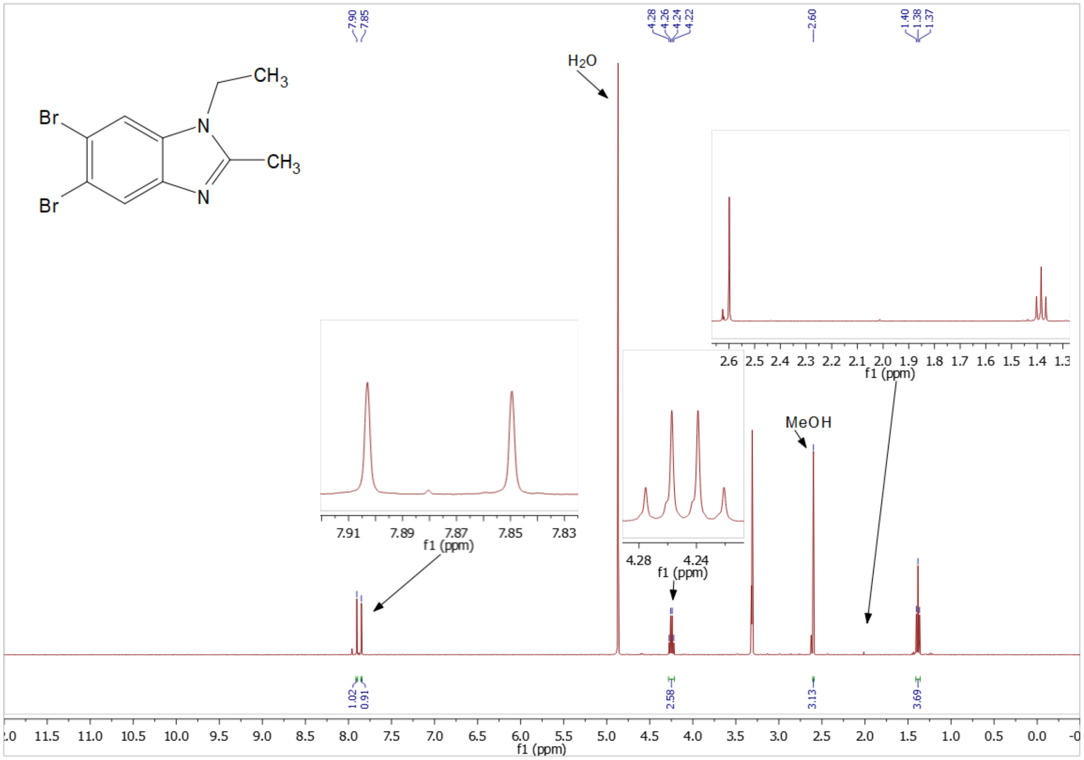

Figure 15. ^1H NMR of 5,6-dibromo-1-ethyl-2-methylbenzimidazole in CD_3OD.

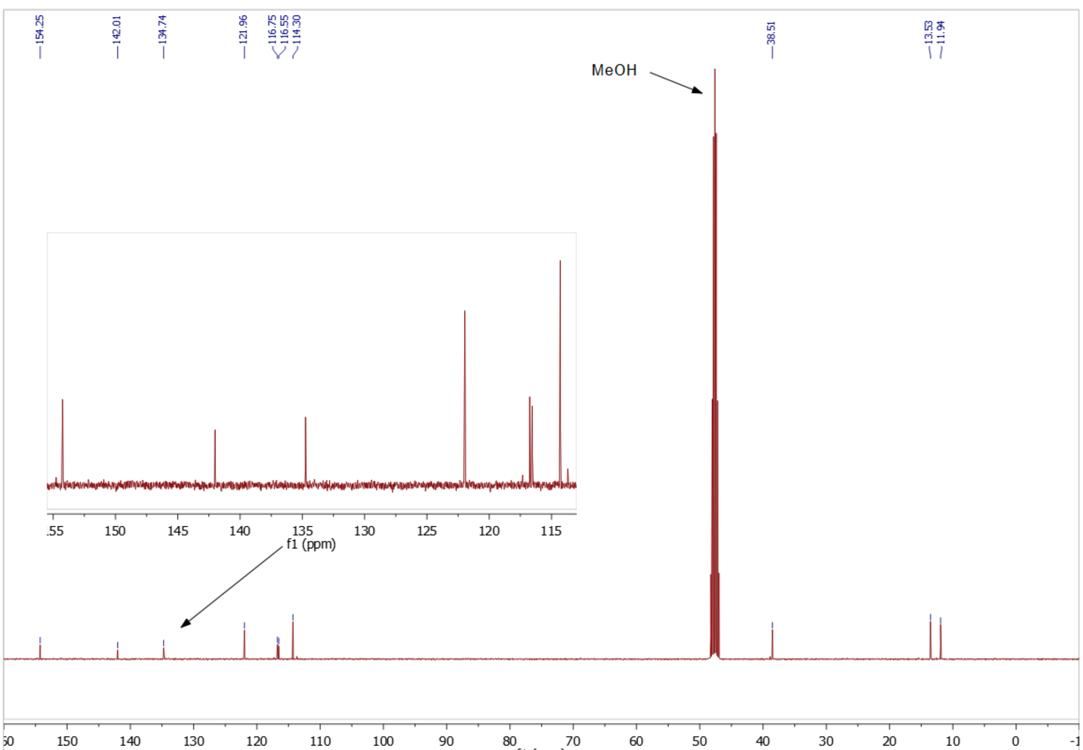

Figure 16. ^{13}C NMR of 5,6-dibromo-1-ethyl-2-methylbenzimidazole in CD_3OD.

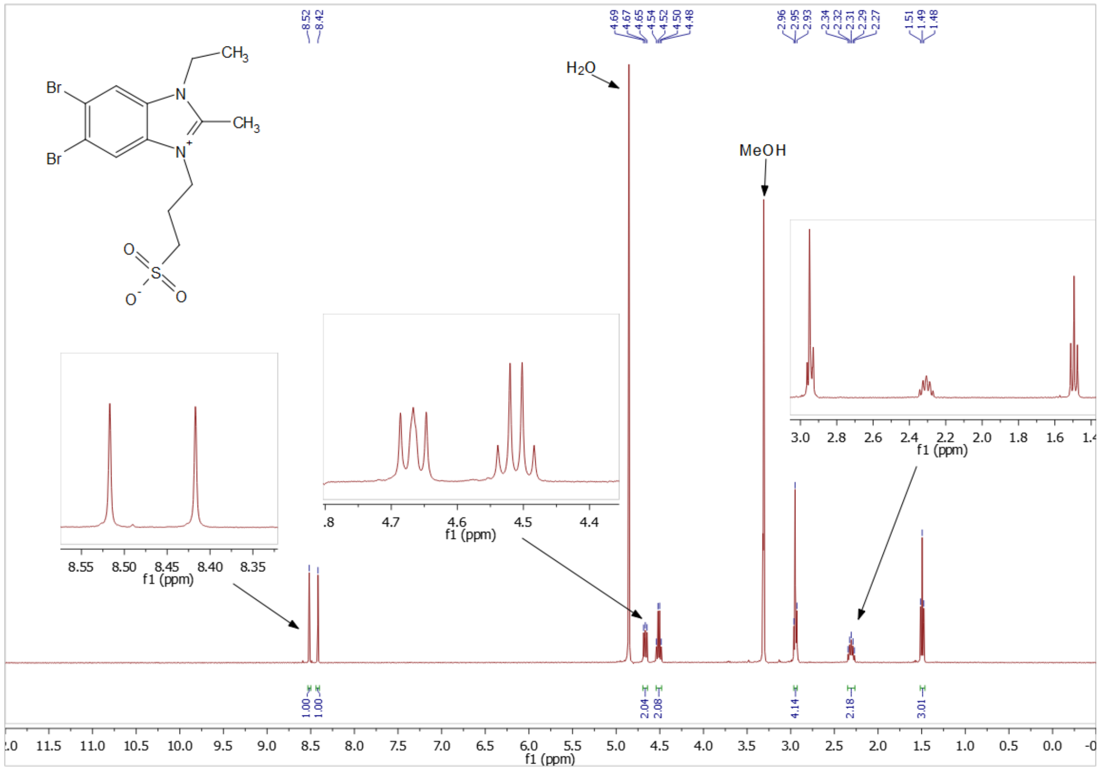

Figure 17. ^{1}H NMR of 5,6-dibromo-1-ethyl-2-methyl-3-(3'-sulfopropyl)-benzimidazole in CD_3OD.