

***Supporting Information
For***

Synthesis of 10-Methoxydiamantan-3-one

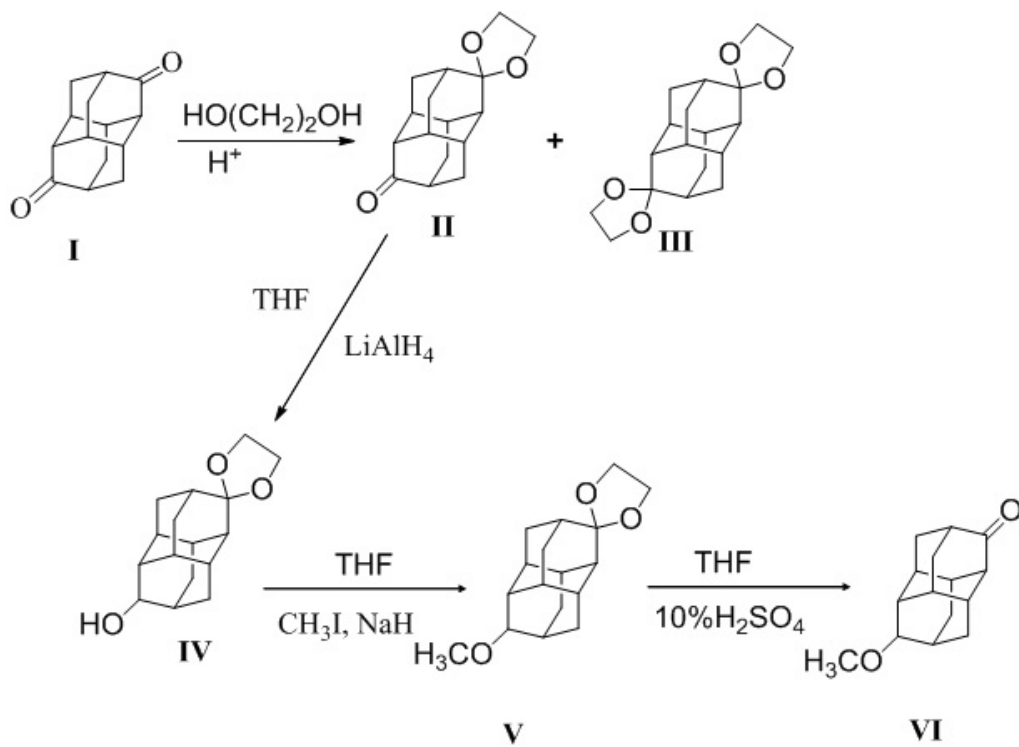
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Scheme 1: Sythesis of 10-Methoxydiamantan-3-one

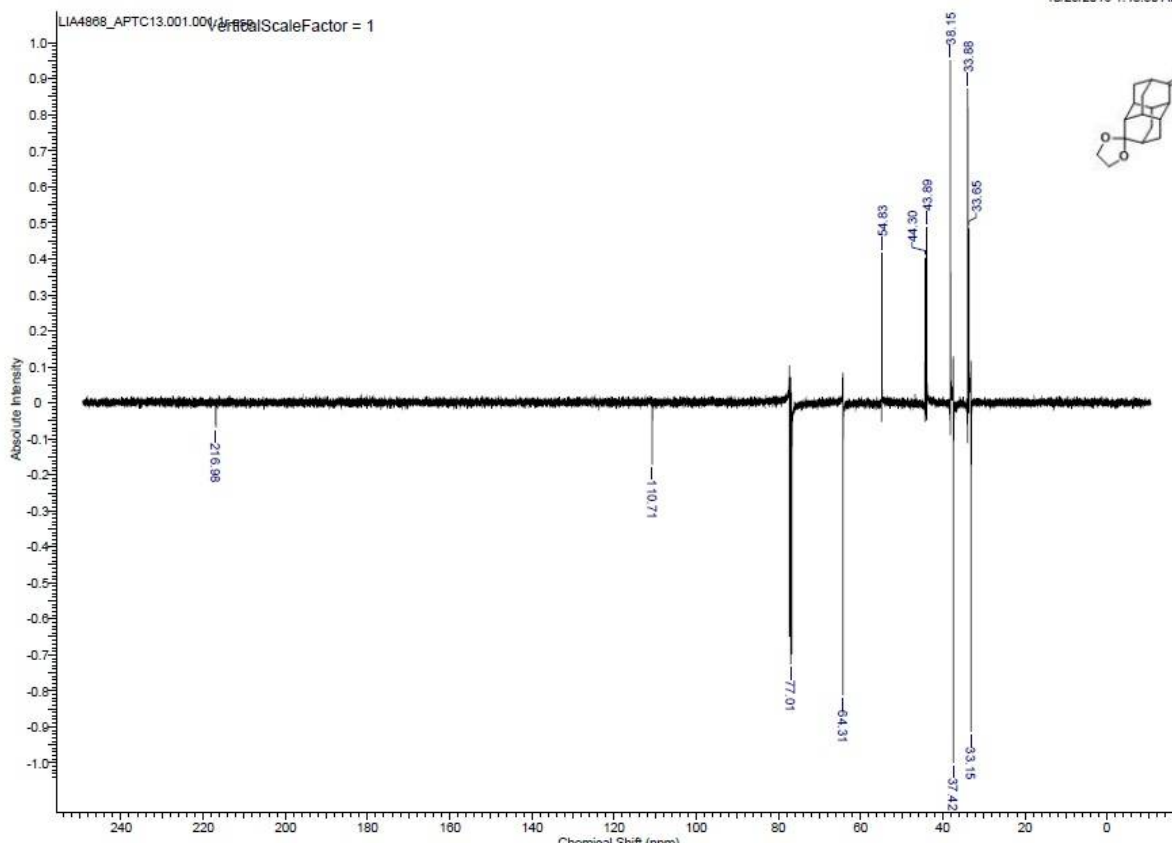
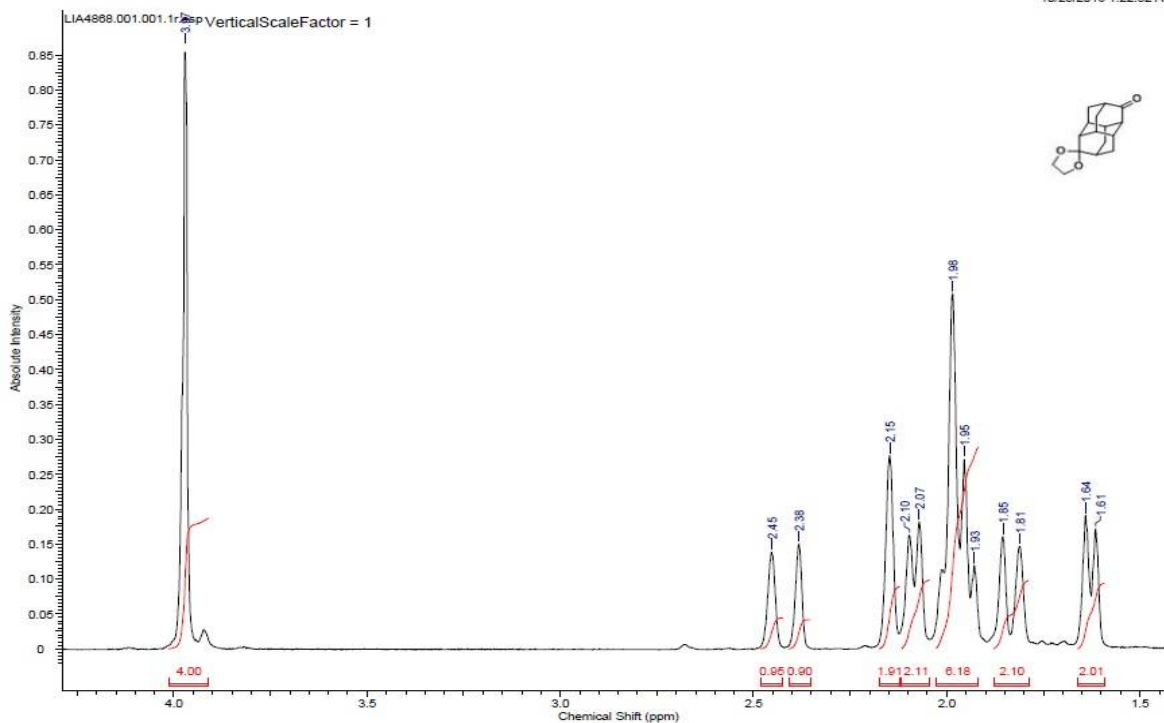


Figure S1. ^1H NMR, ^{13}C NMR spectrum of compound 10-Ethylene ketal diamantan-3-one (**II**).

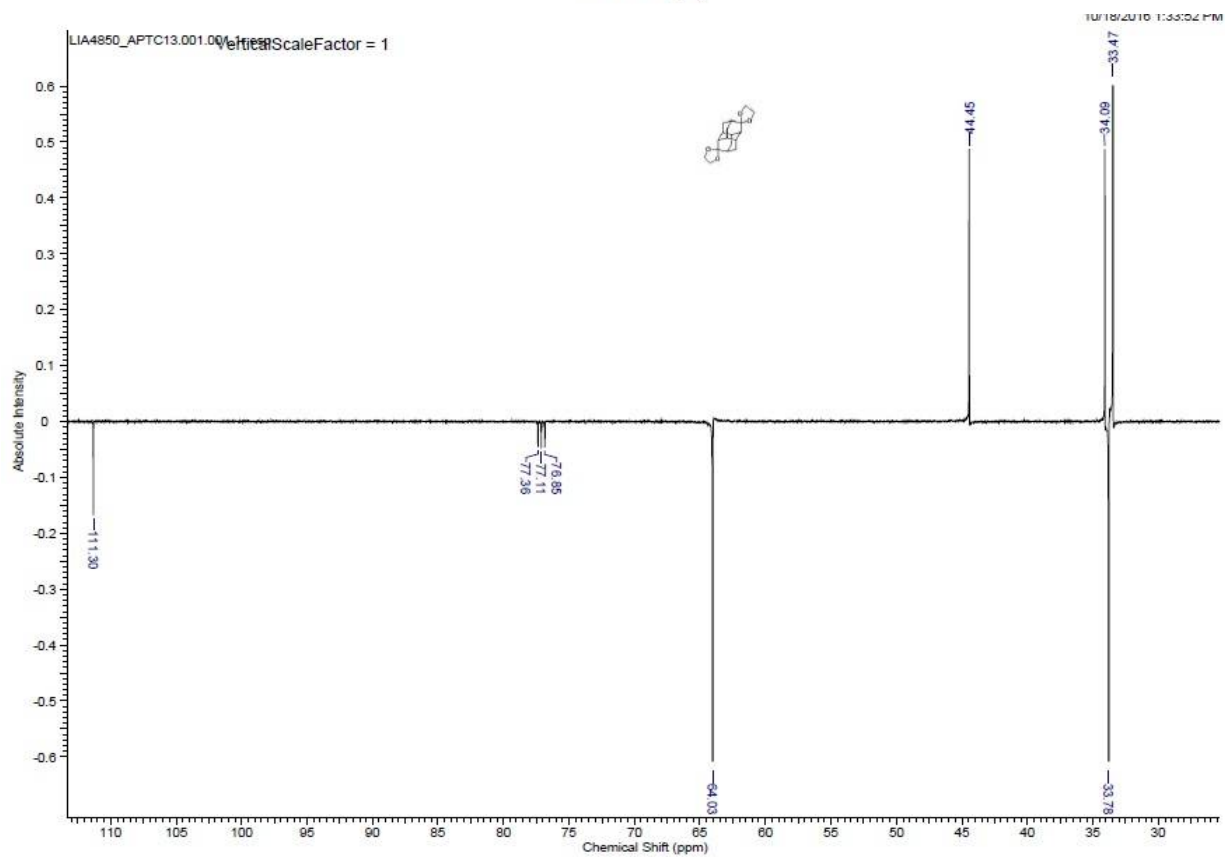
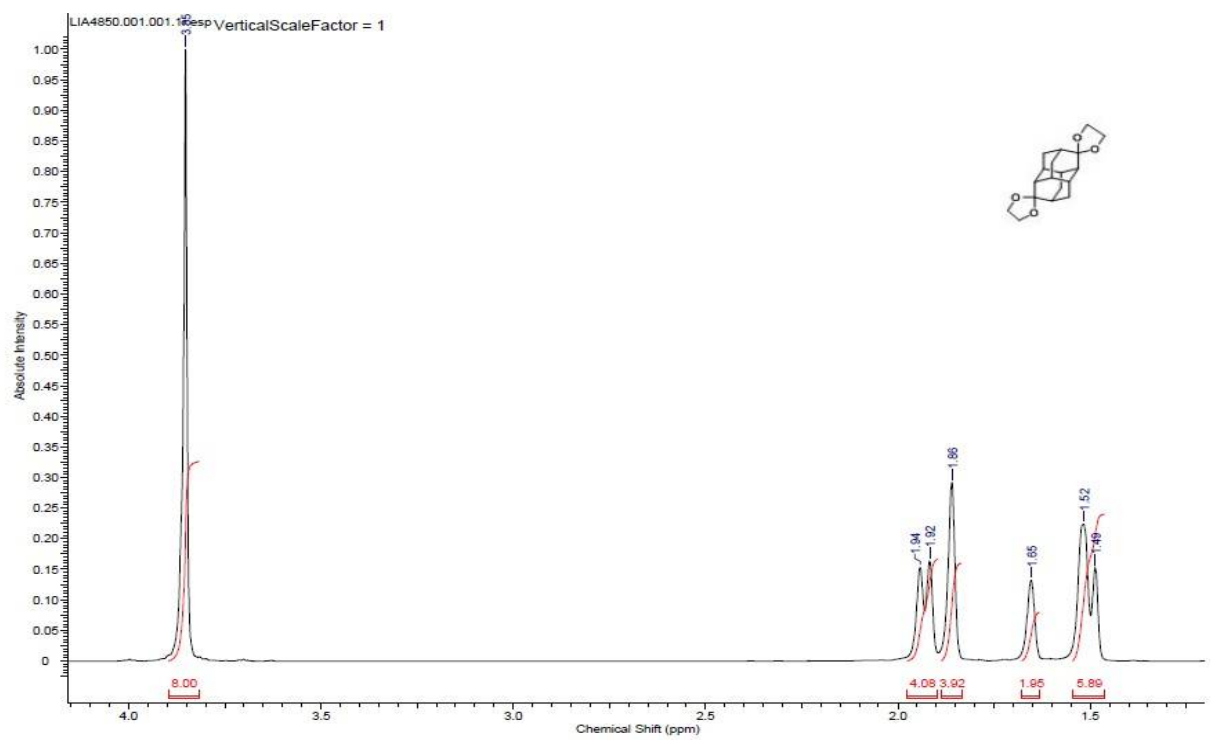


Figure S2. ^1H NMR, ^{13}C NMR spectrum of compound 3,10 Diethylene ketal diamantan (**III**)

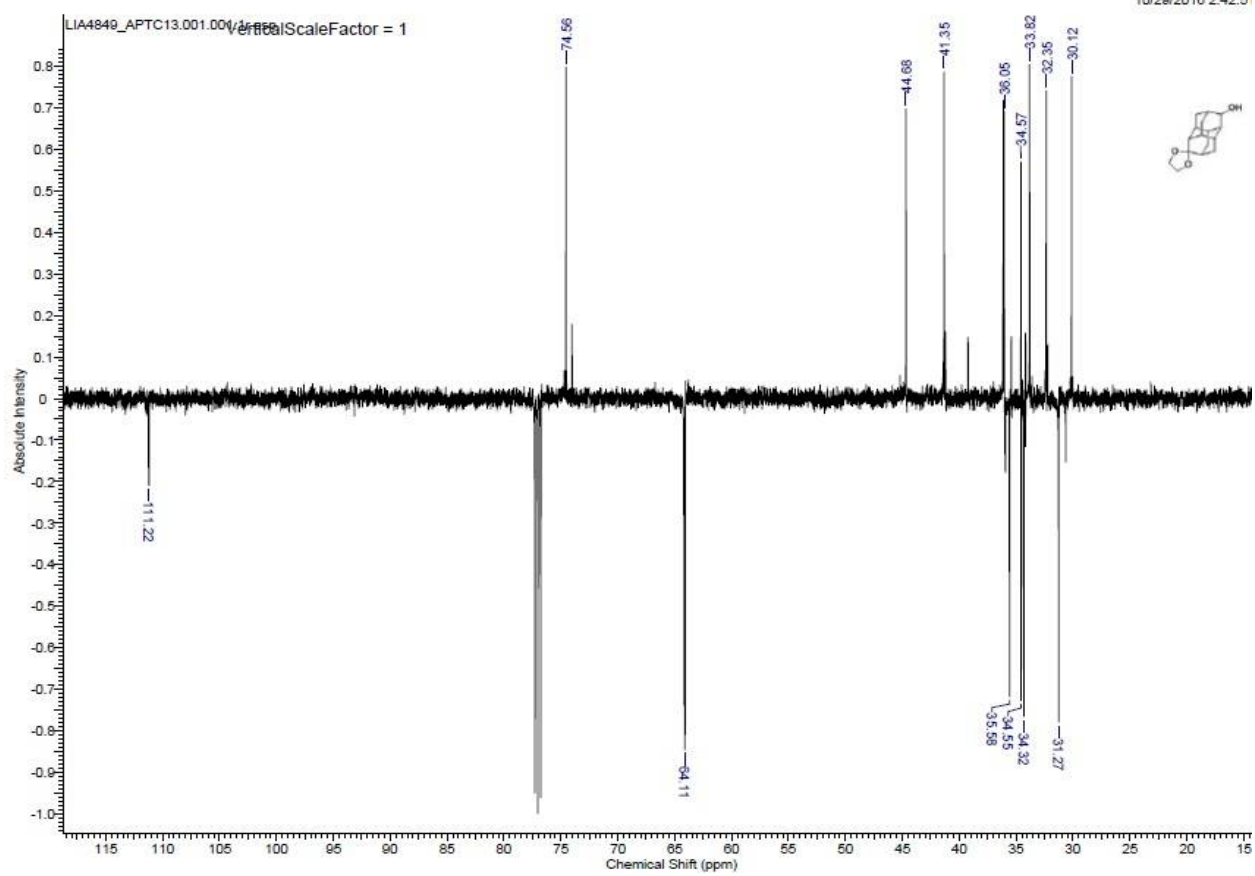
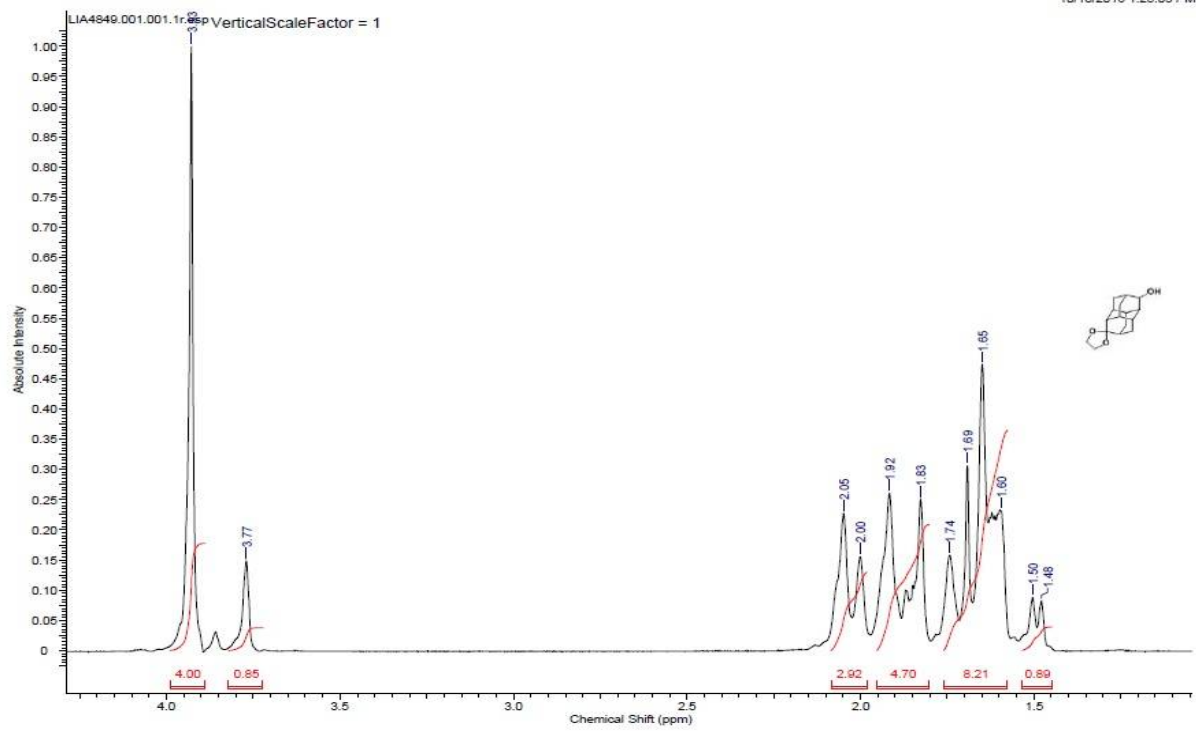


Figure S3. ^1H NMR, ^{13}C NMR spectrum of compound Ethylene ketal of 10-hydroxydiamantan-3-one (IV).

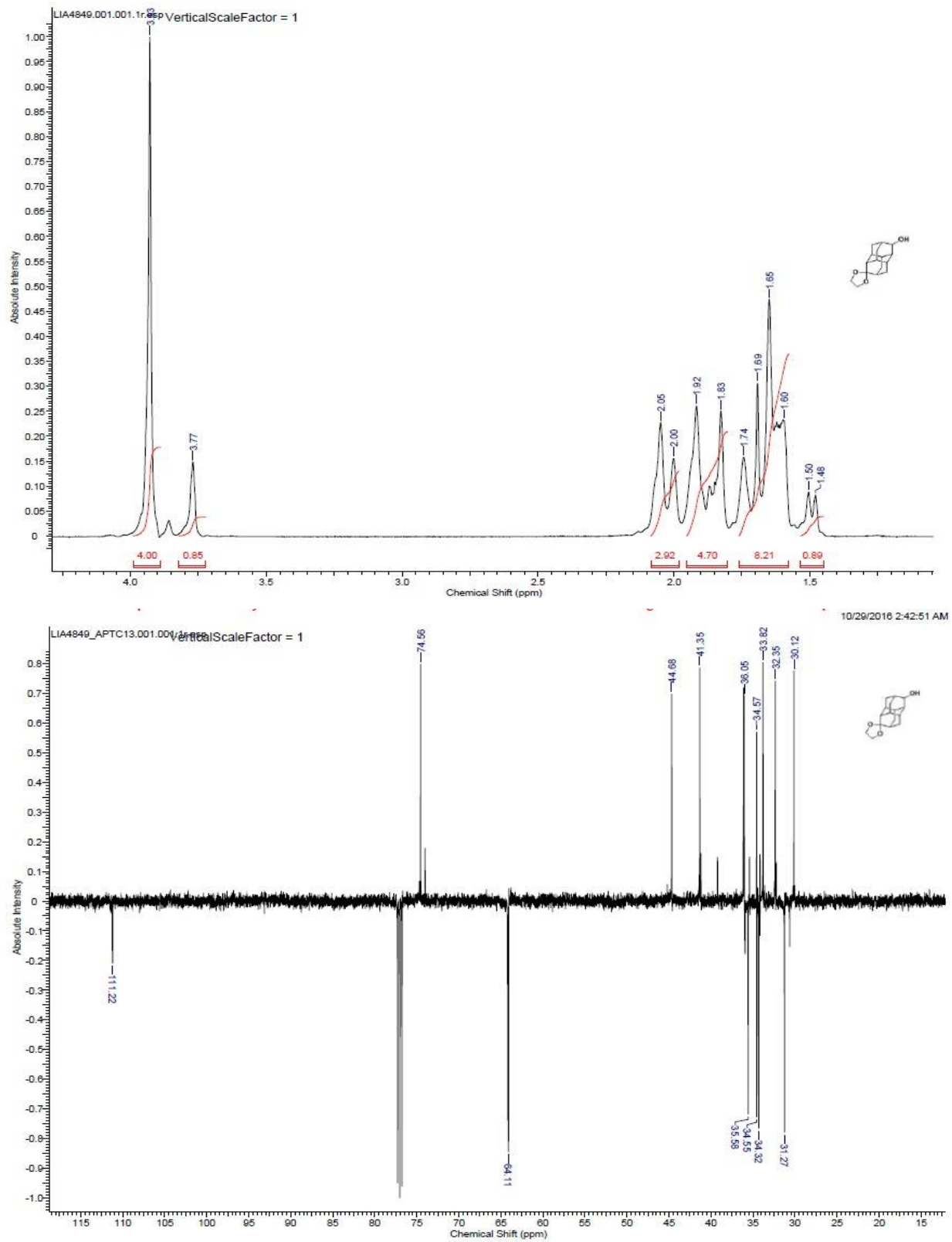


Figure S4. ¹H NMR, ¹³C NMR spectrum of compound Ethylene ketal of 10-methoxydiamantan-3-one (V).

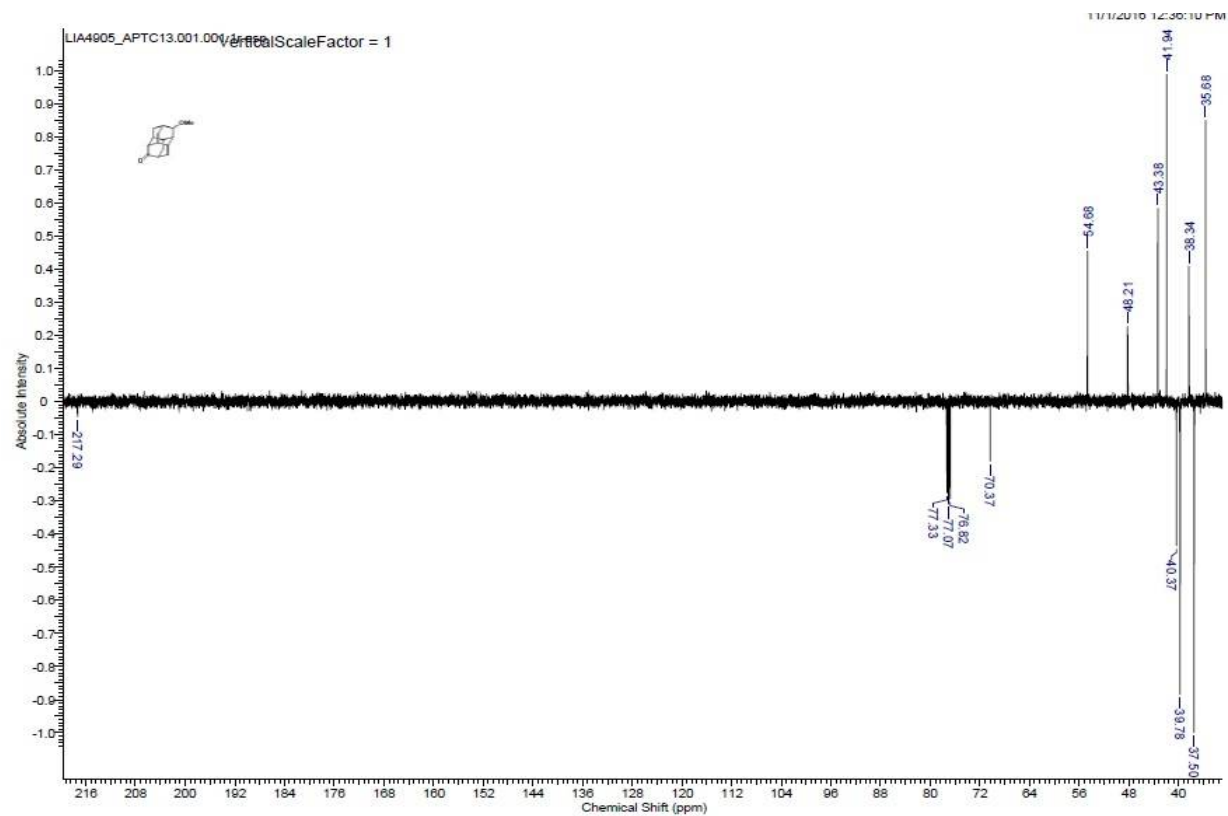
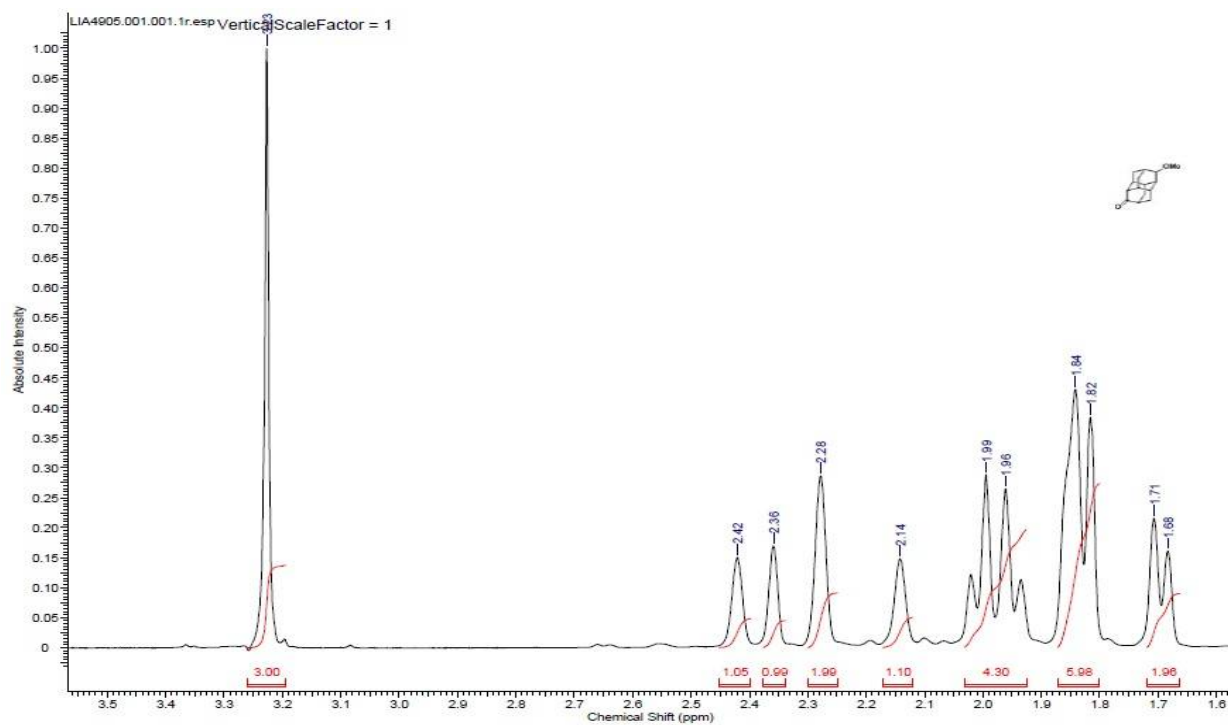


Figure S5. ^1H NMR, ^{13}C NMR spectrum of compound 10-Methoxydiamantan-3-one (VI).