

## Supporting Information

### Diastereoselective Synthesis of Trisubstituted Olefins using a Silicon-Tether Ring-Closing Metathesis Strategy

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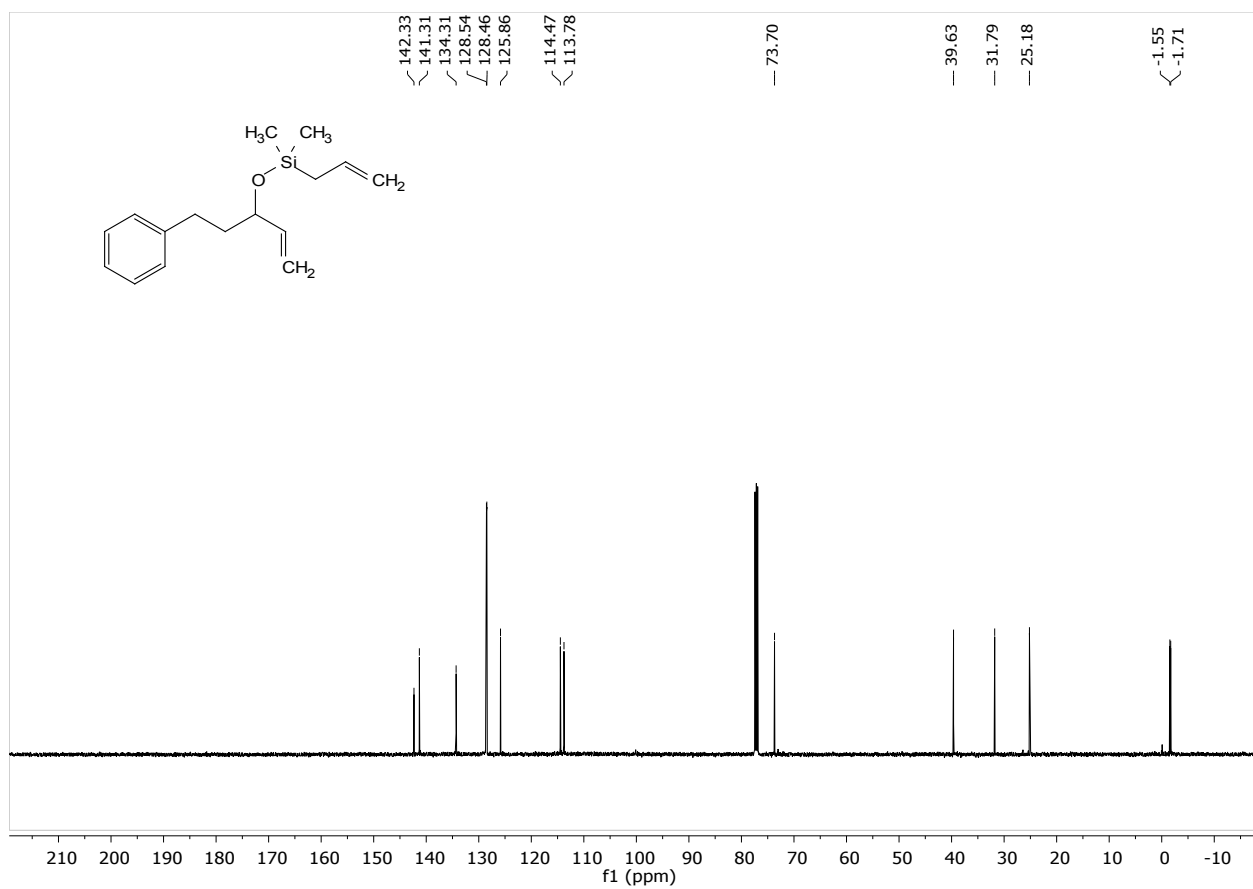
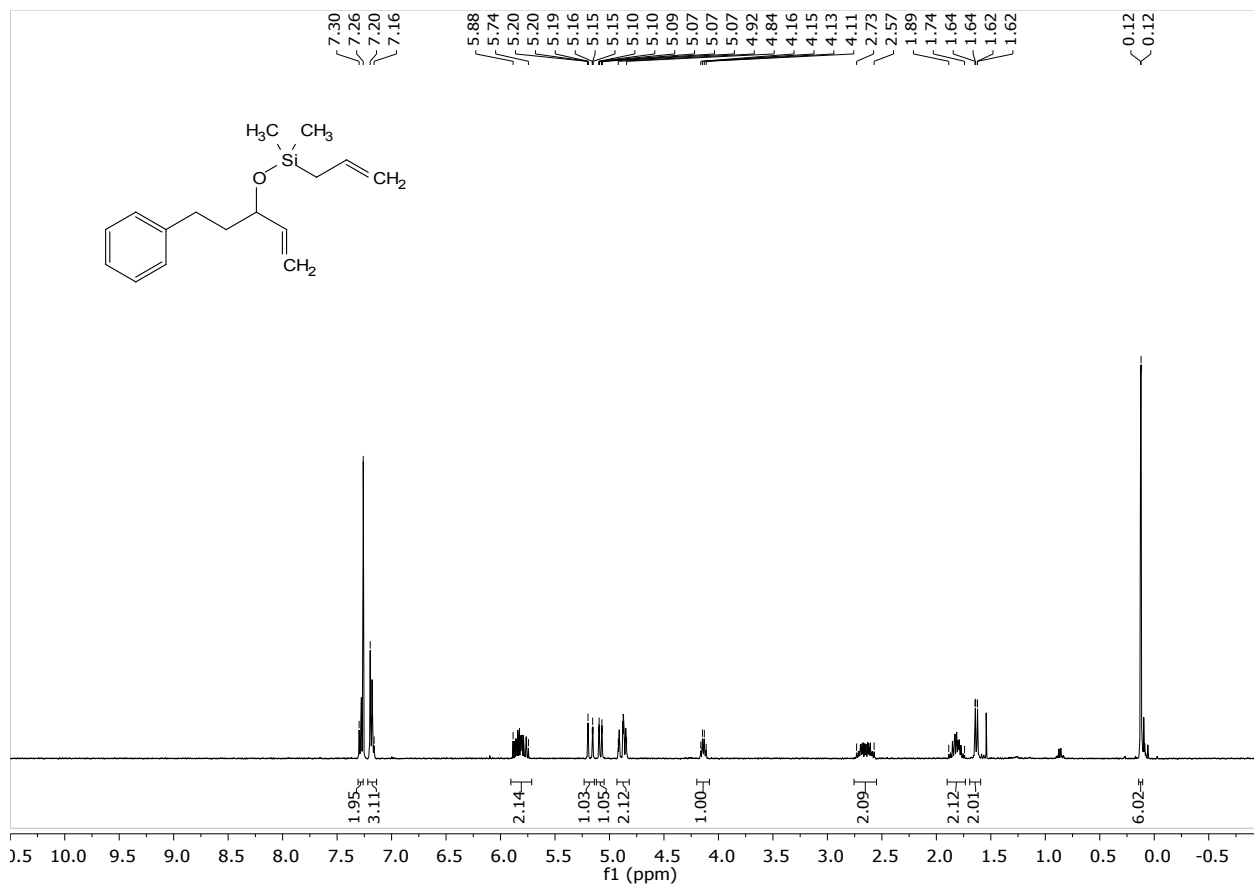
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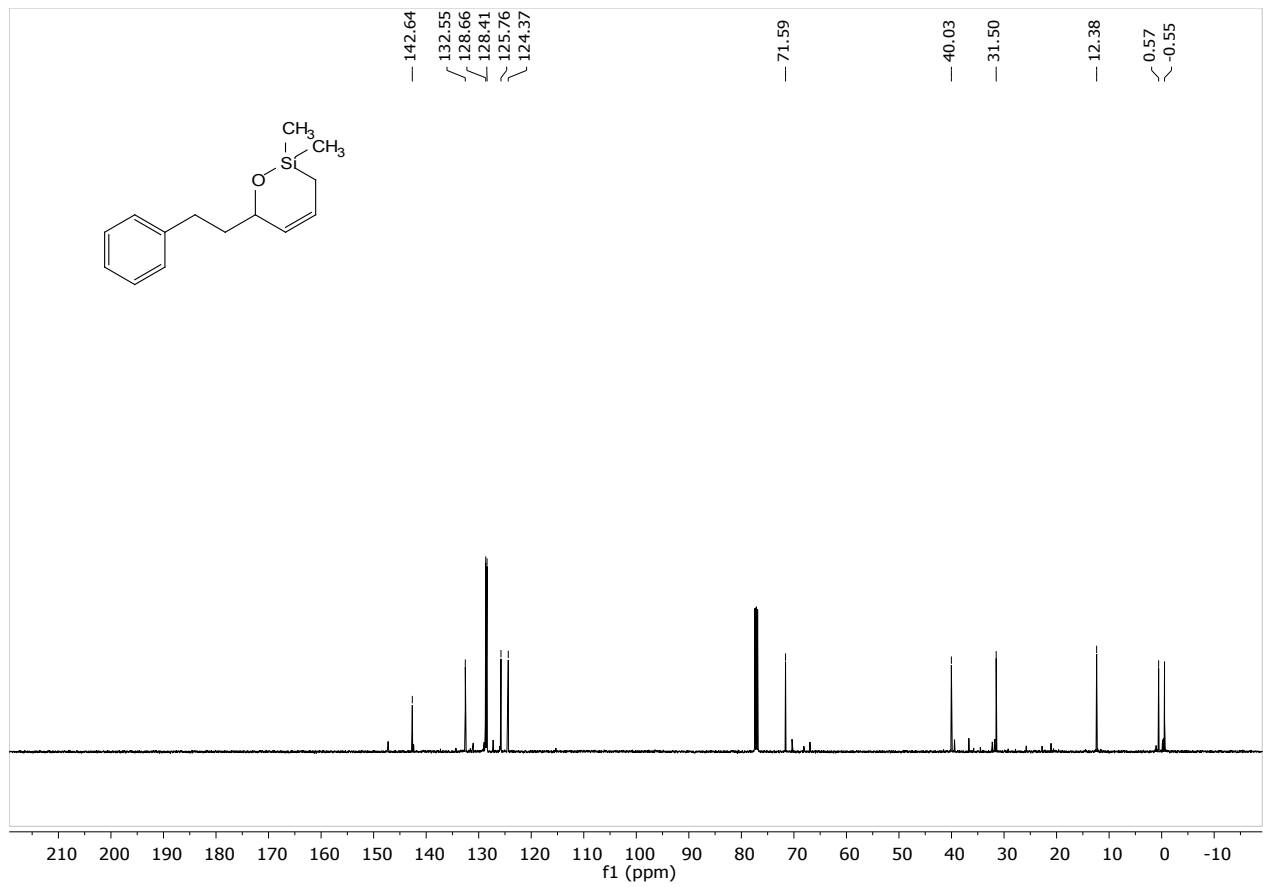
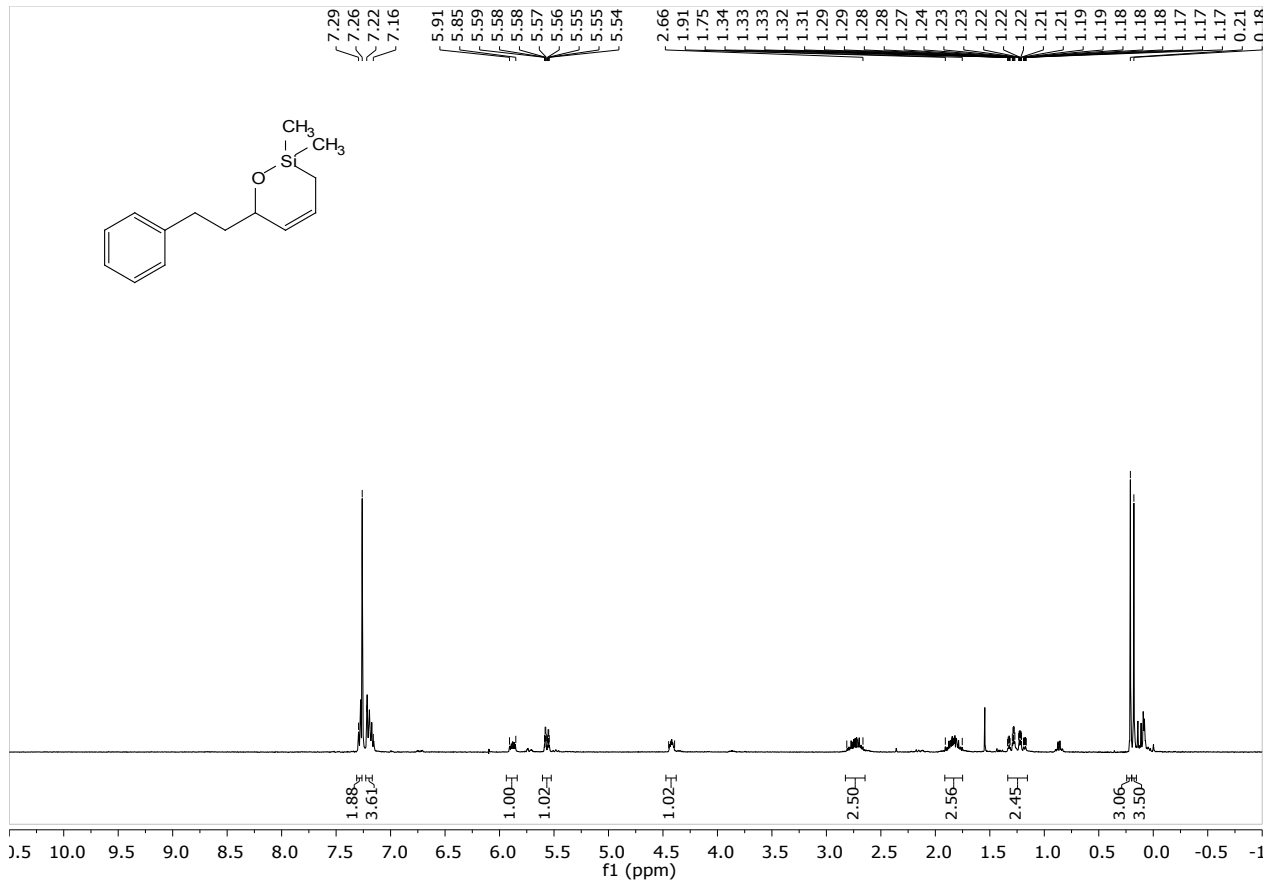
#### Contents

NMR spectra.....	S2
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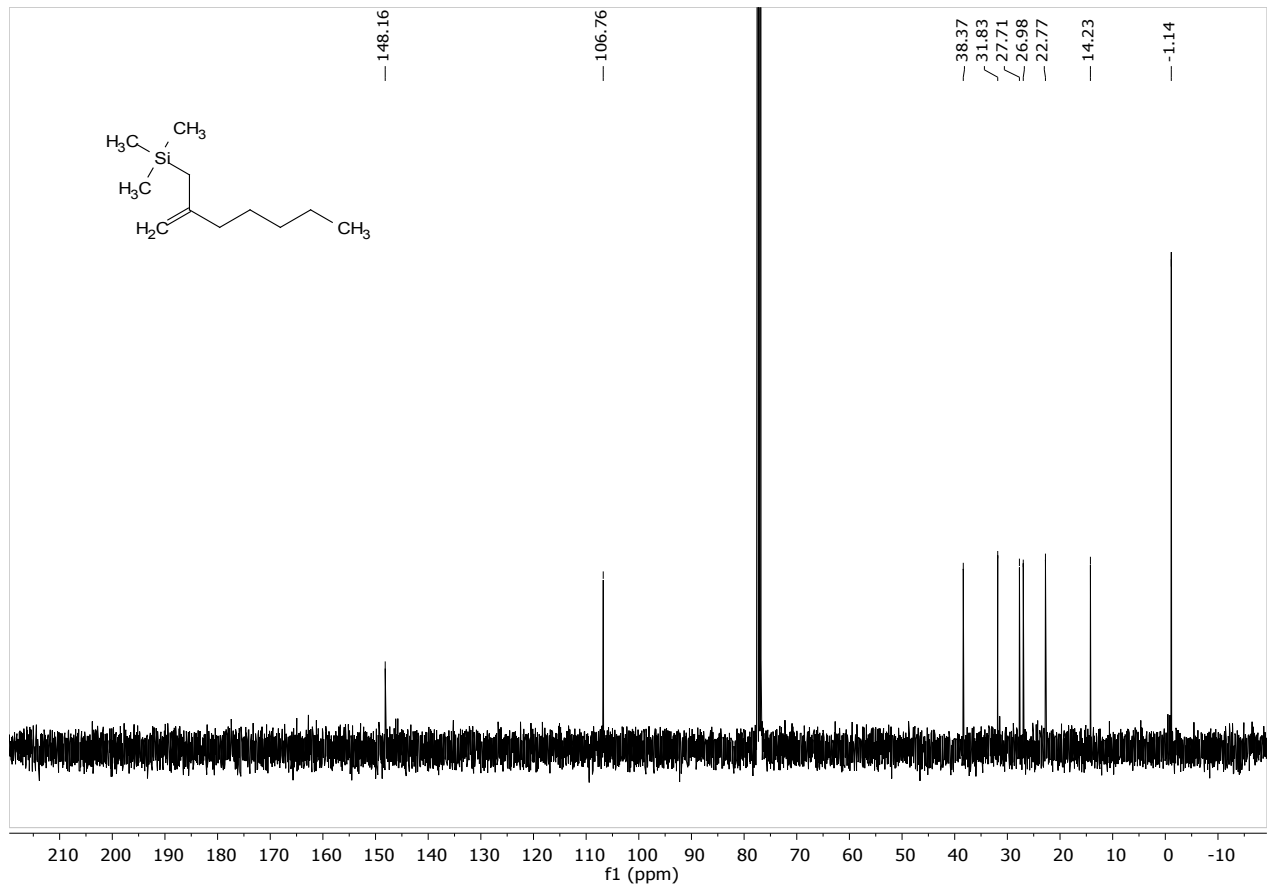
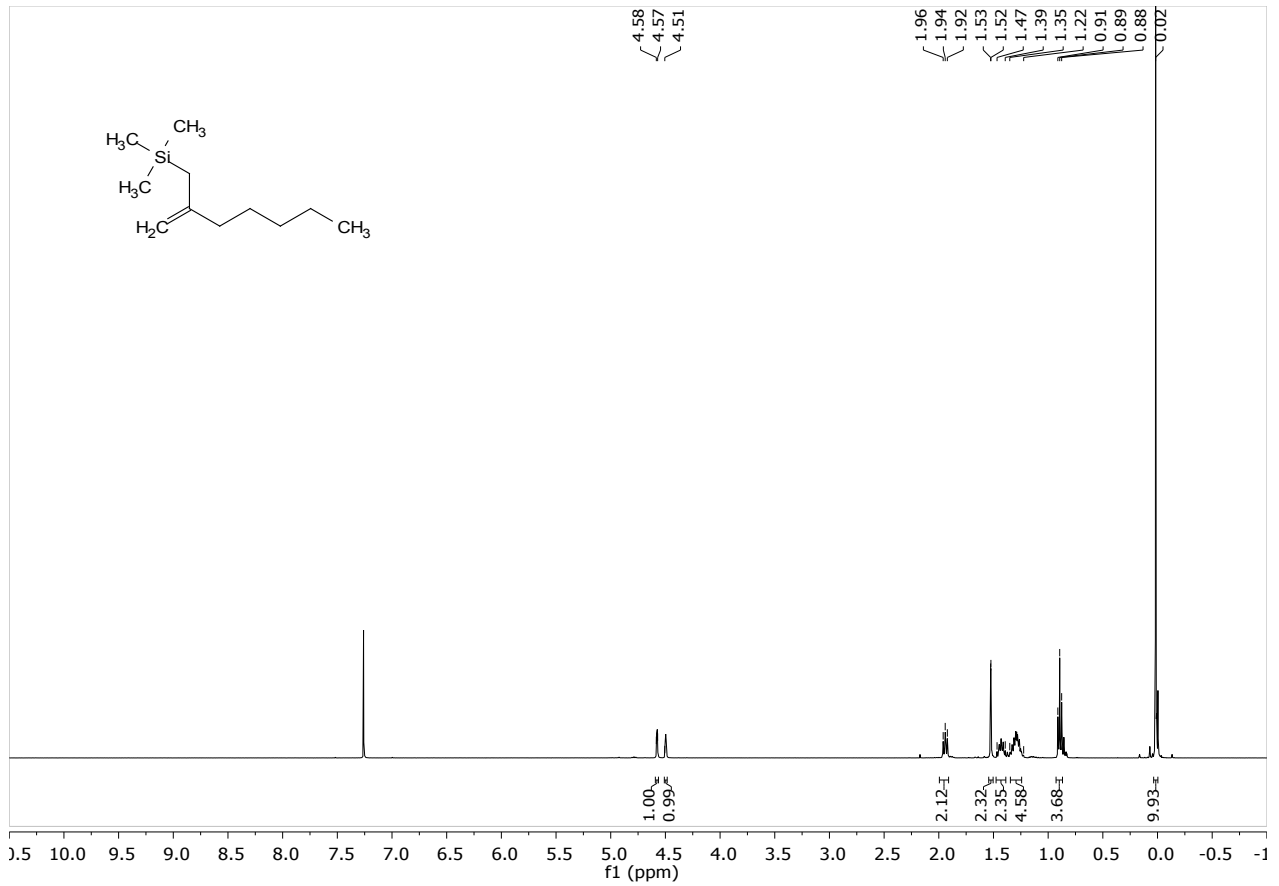
# Allyldimethyl(5-phenylpent-1-en-3-yloxy)silane 2



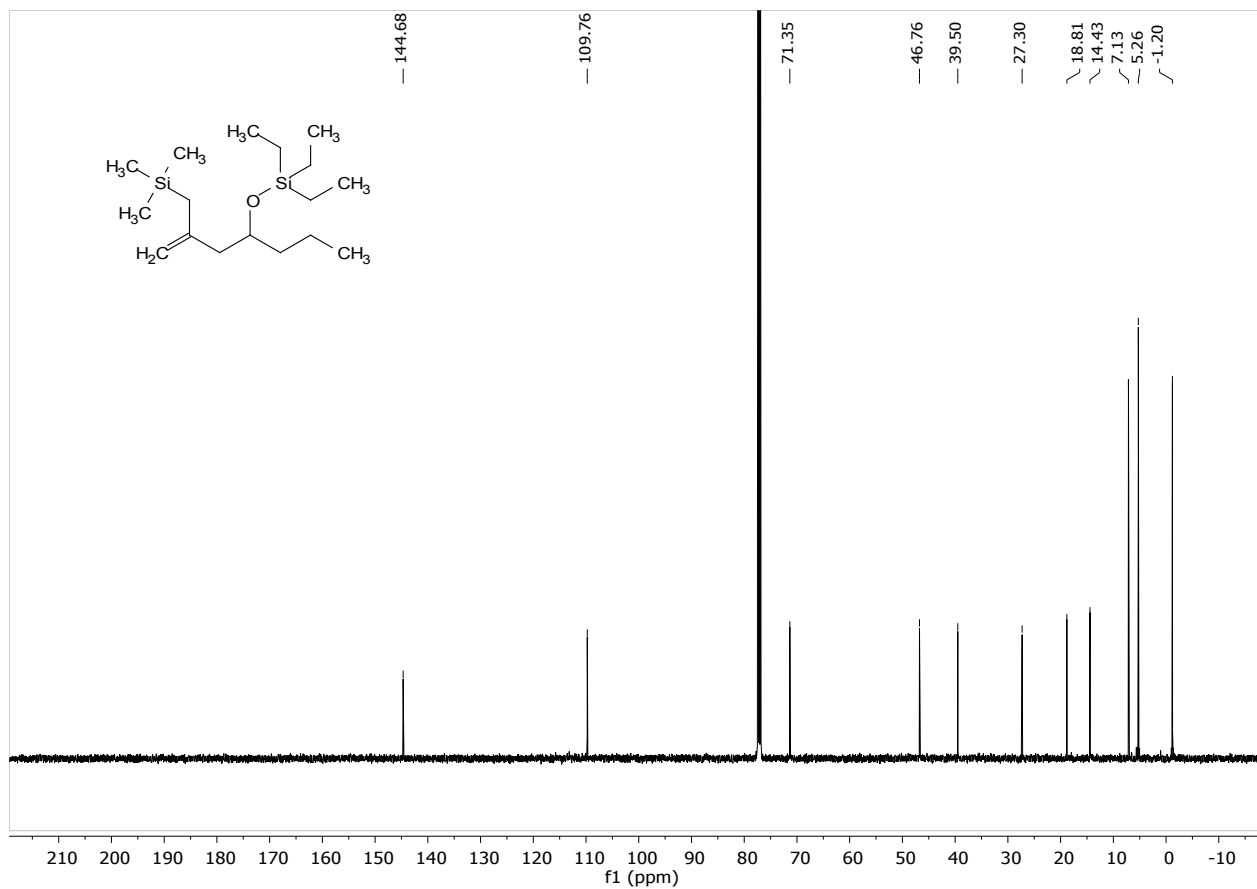
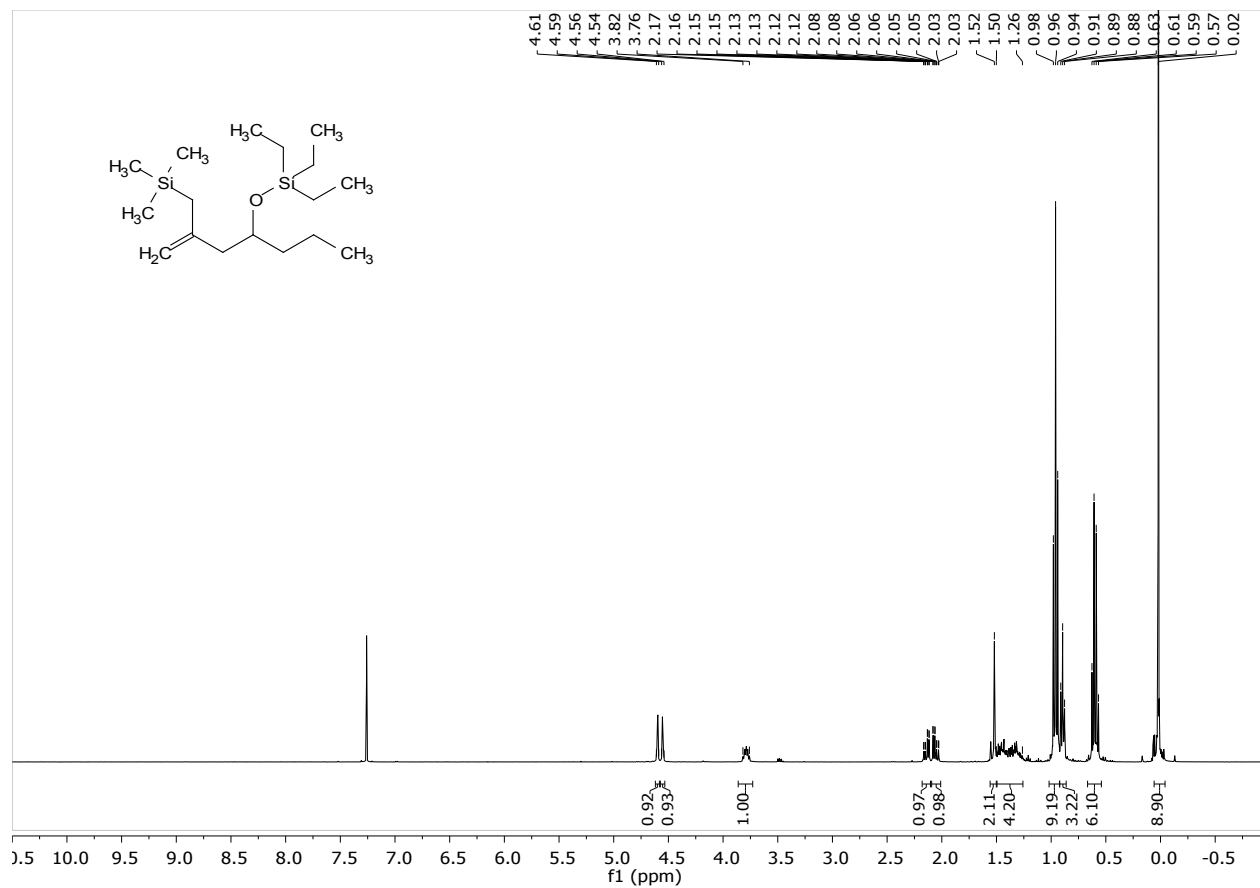
**2,2-Dimethyl-6-phenethyl-3,6-dihydro-2H-1,2-oxasiline 3**



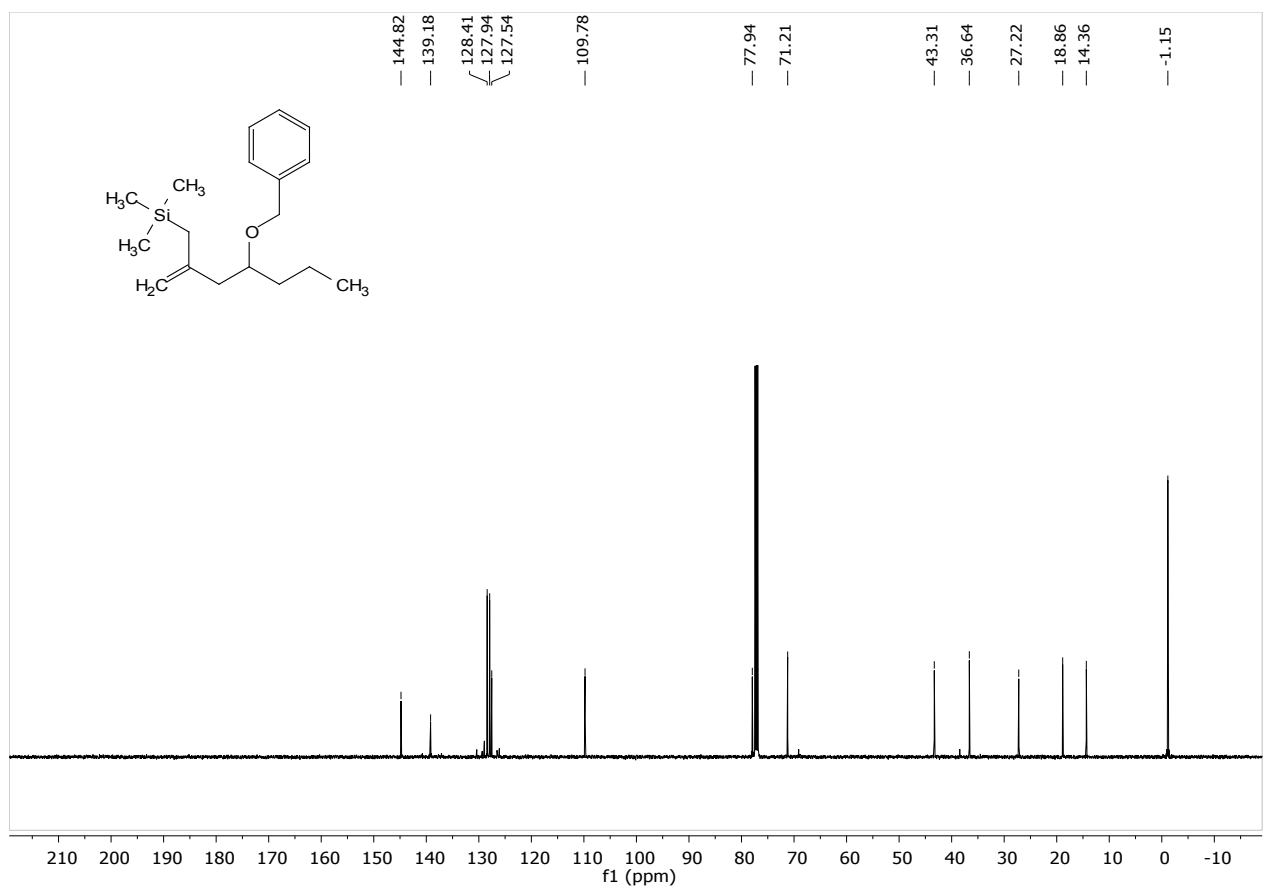
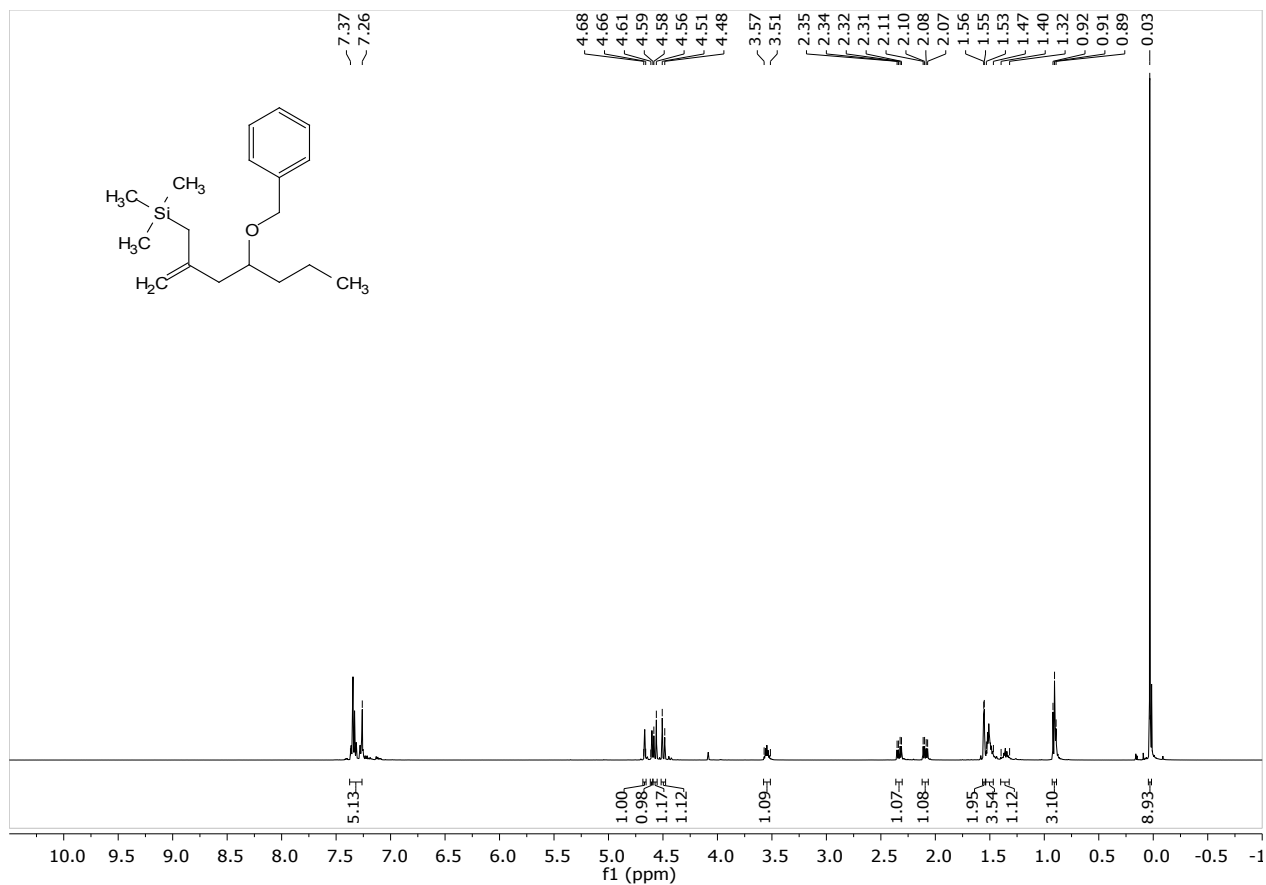
# Trimethyl(2-methyleneheptyl)silane 5a



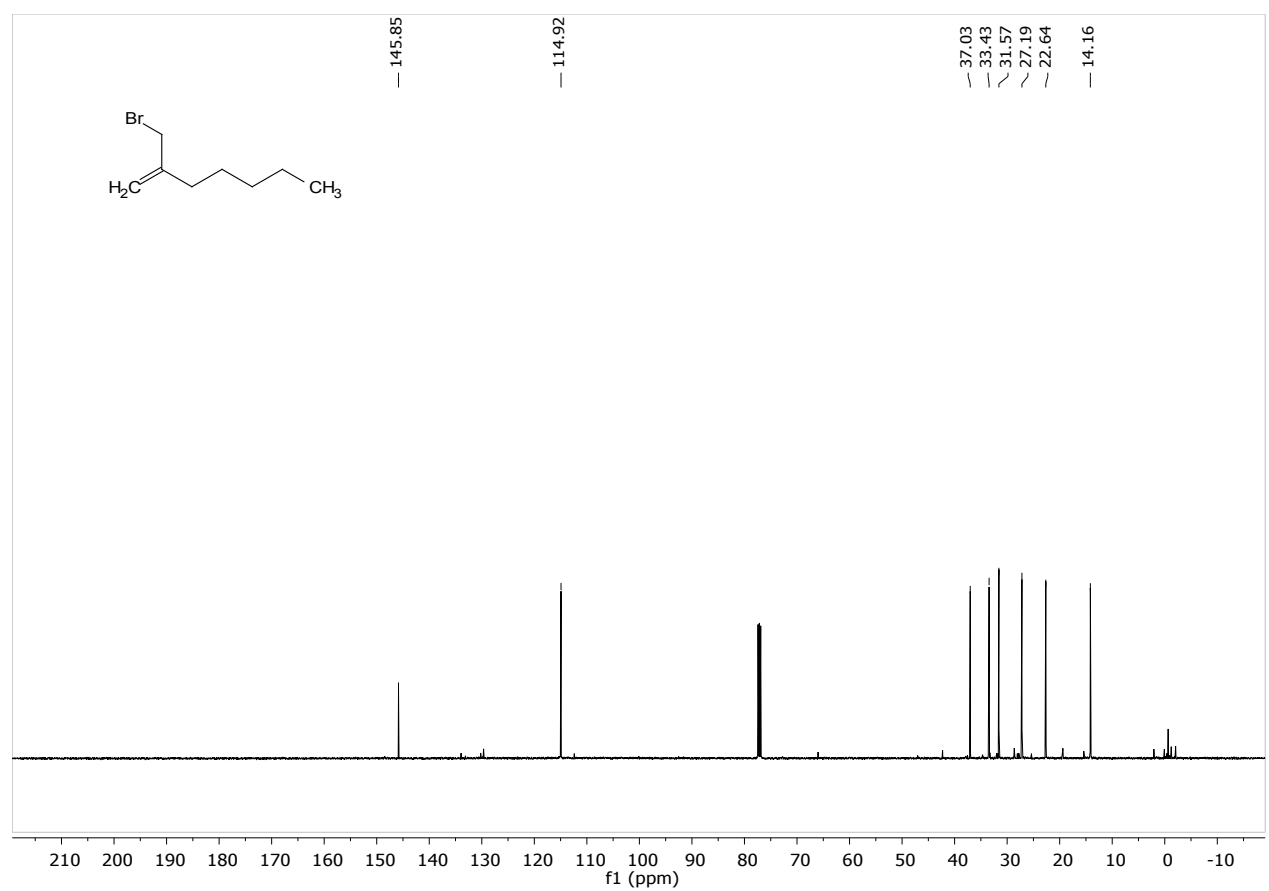
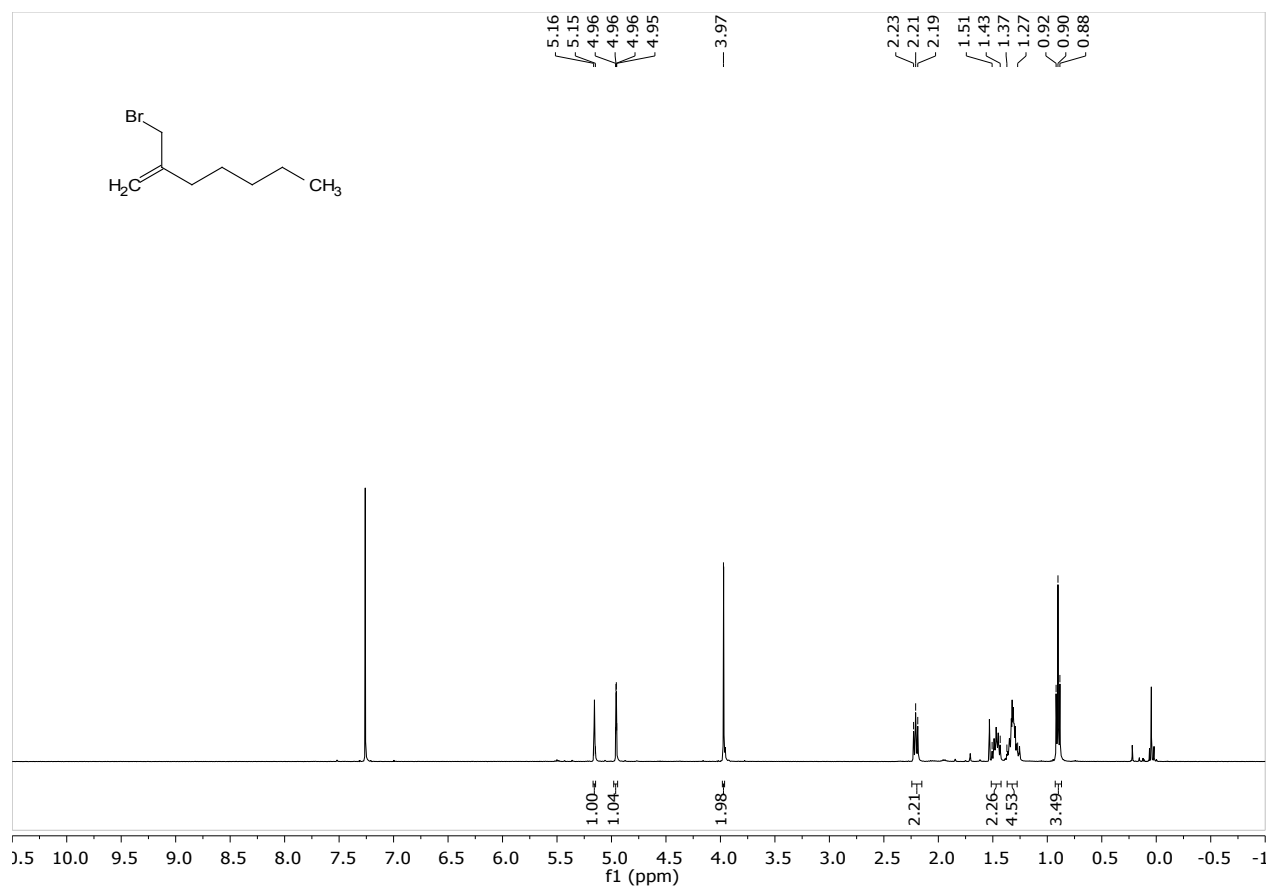
Triethyl(2-((trimethylsilyl)methyl)hept-1-en-4-yloxy)silane 5b



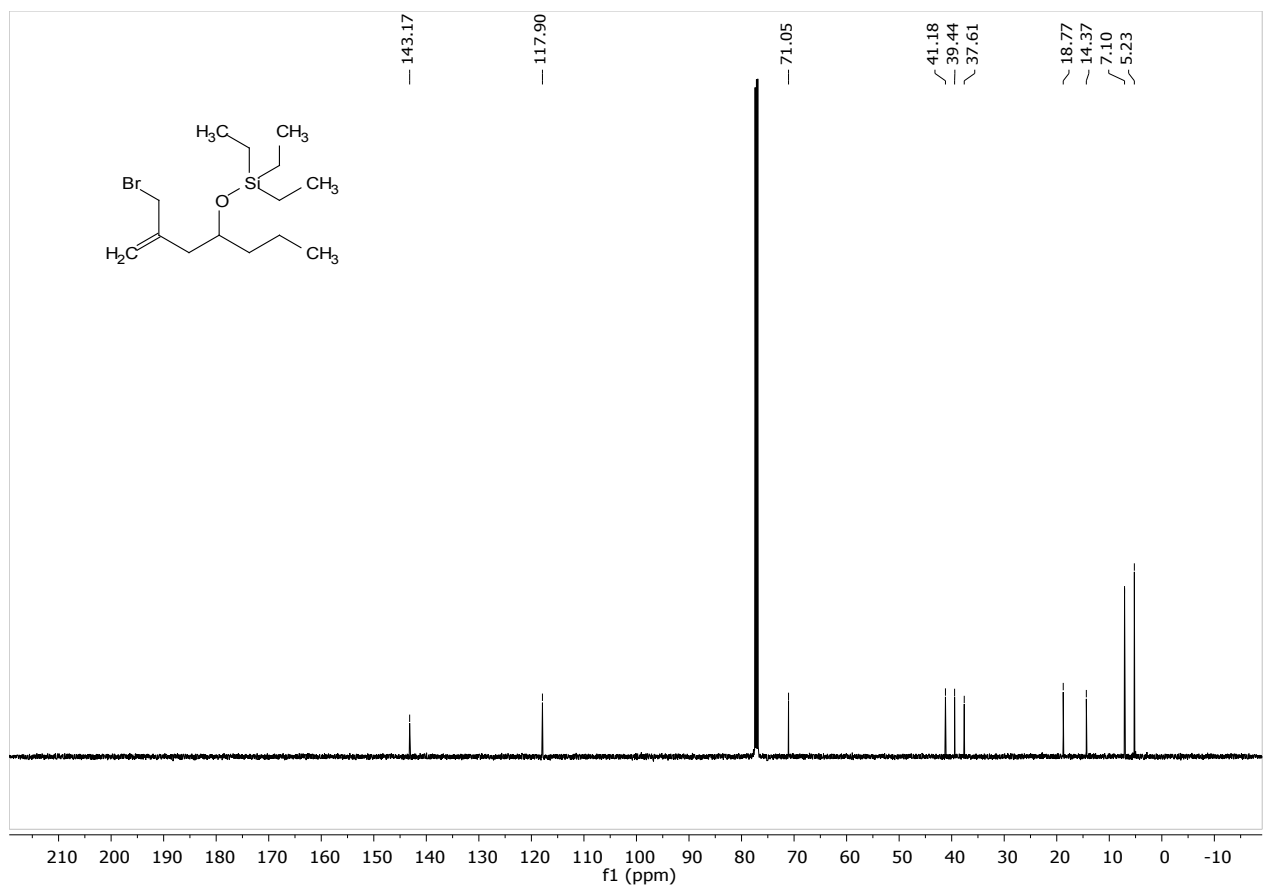
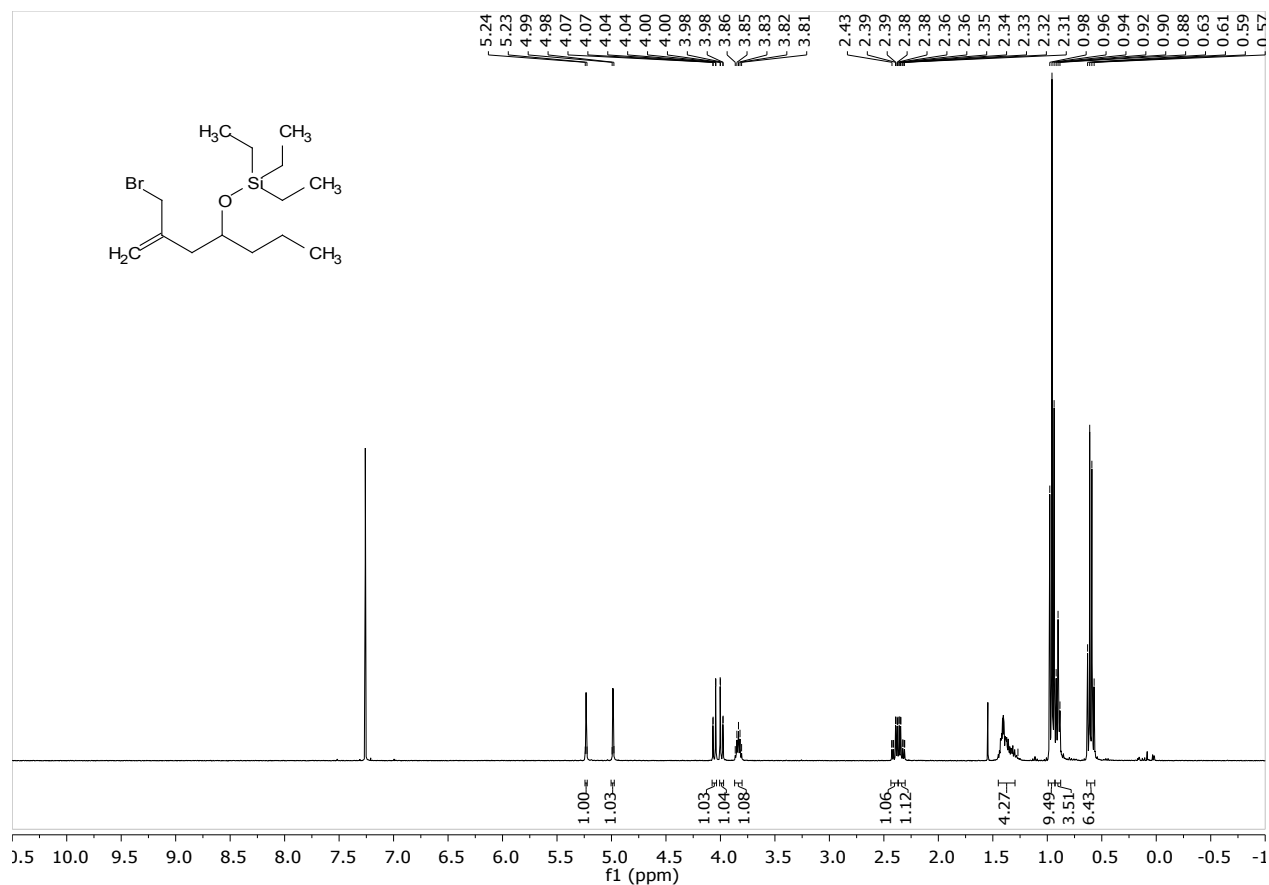
**(4-(Benzyloxy)-2-methyleneheptyl)trimethylsilane 5c**



## 2-(Bromomethyl)hept-1-ene 7a

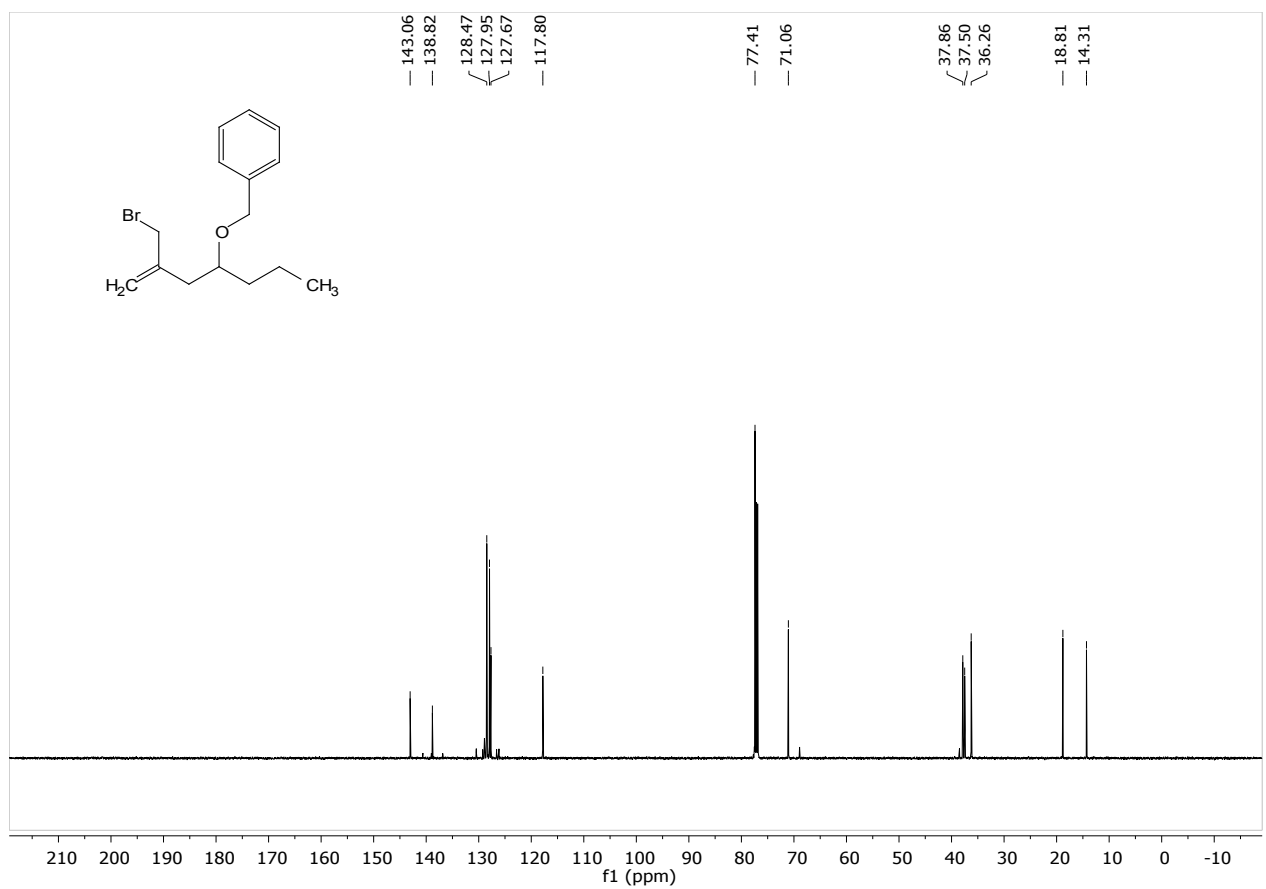
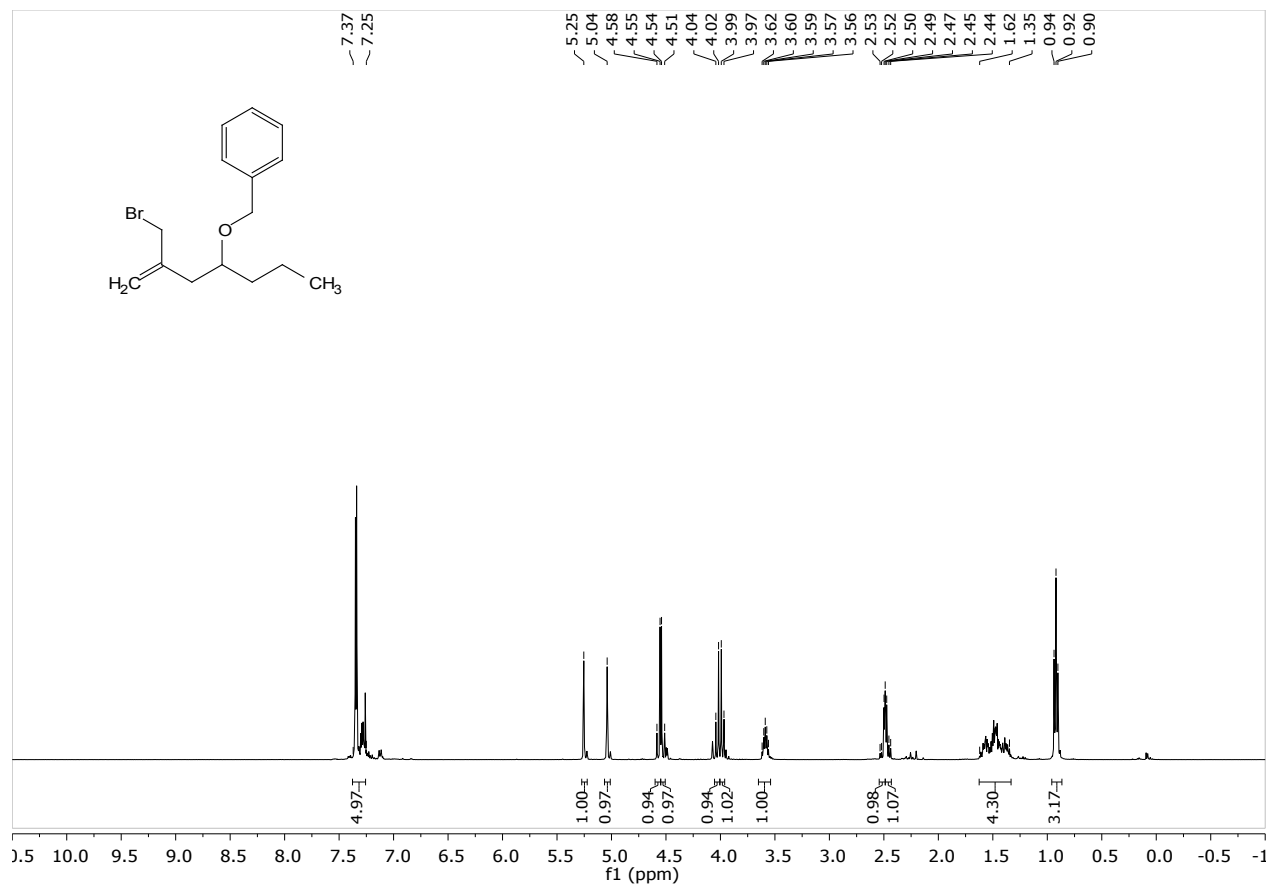


**(2-(Bromomethyl)hept-1-en-4-yloxy)triethylsilane 7b**

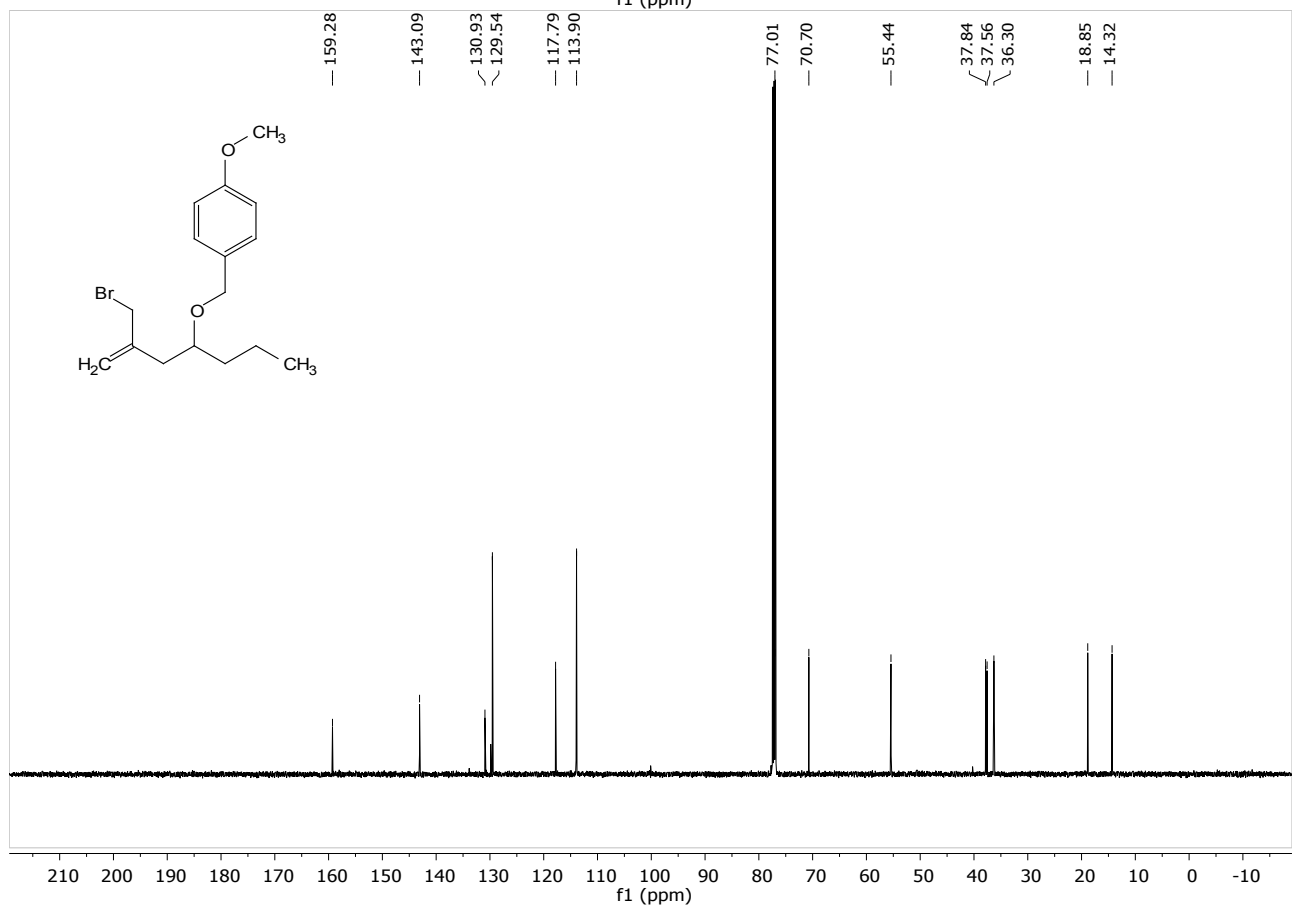
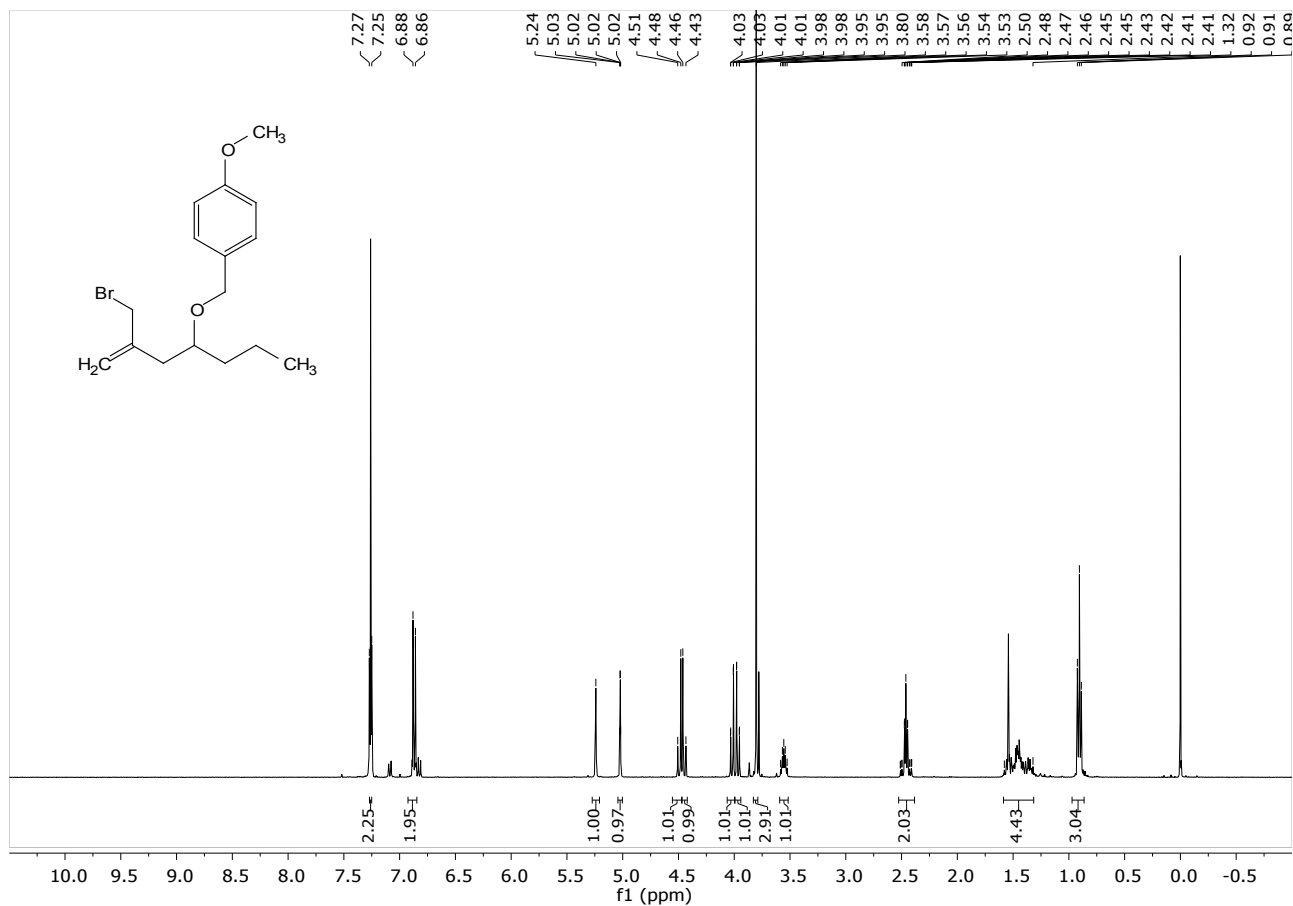




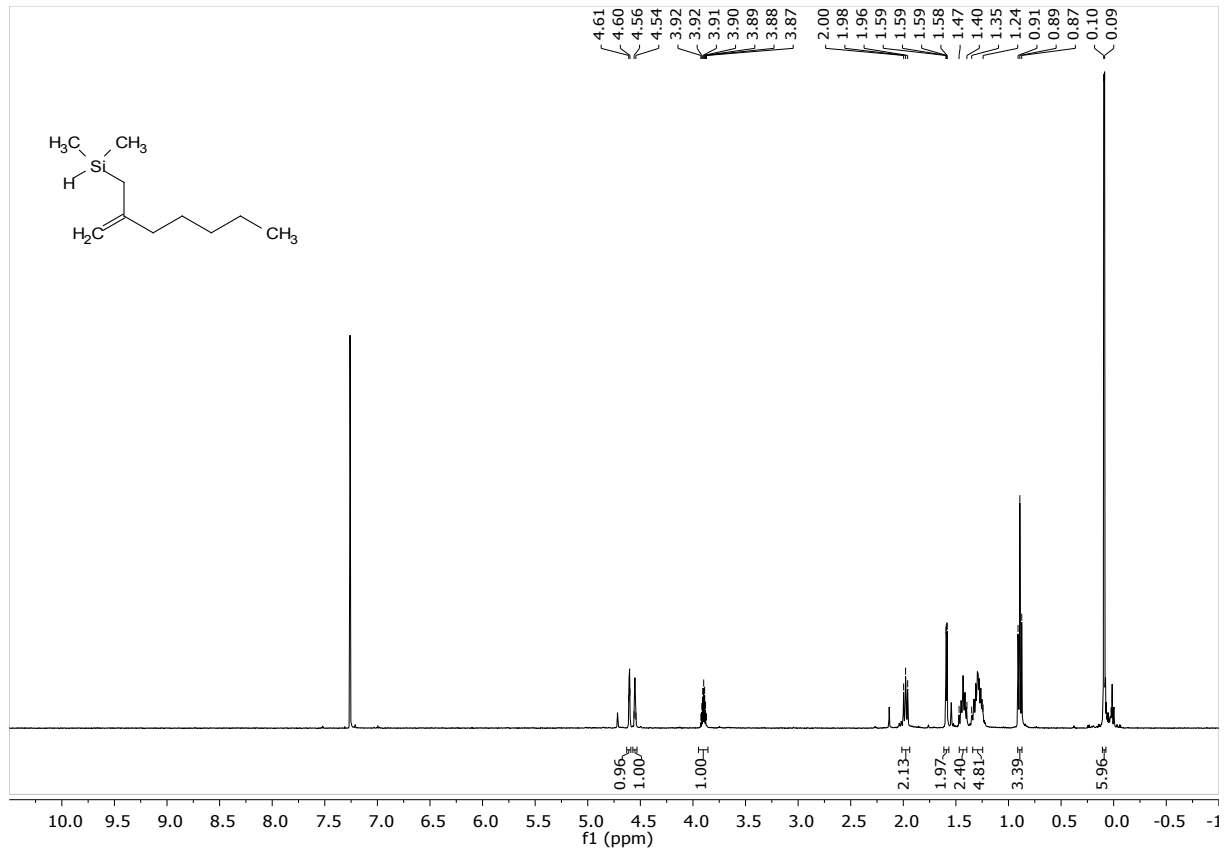
**(((2-(Bromomethyl)hept-1-en-4-yl)oxy)methyl)benzene 7c**



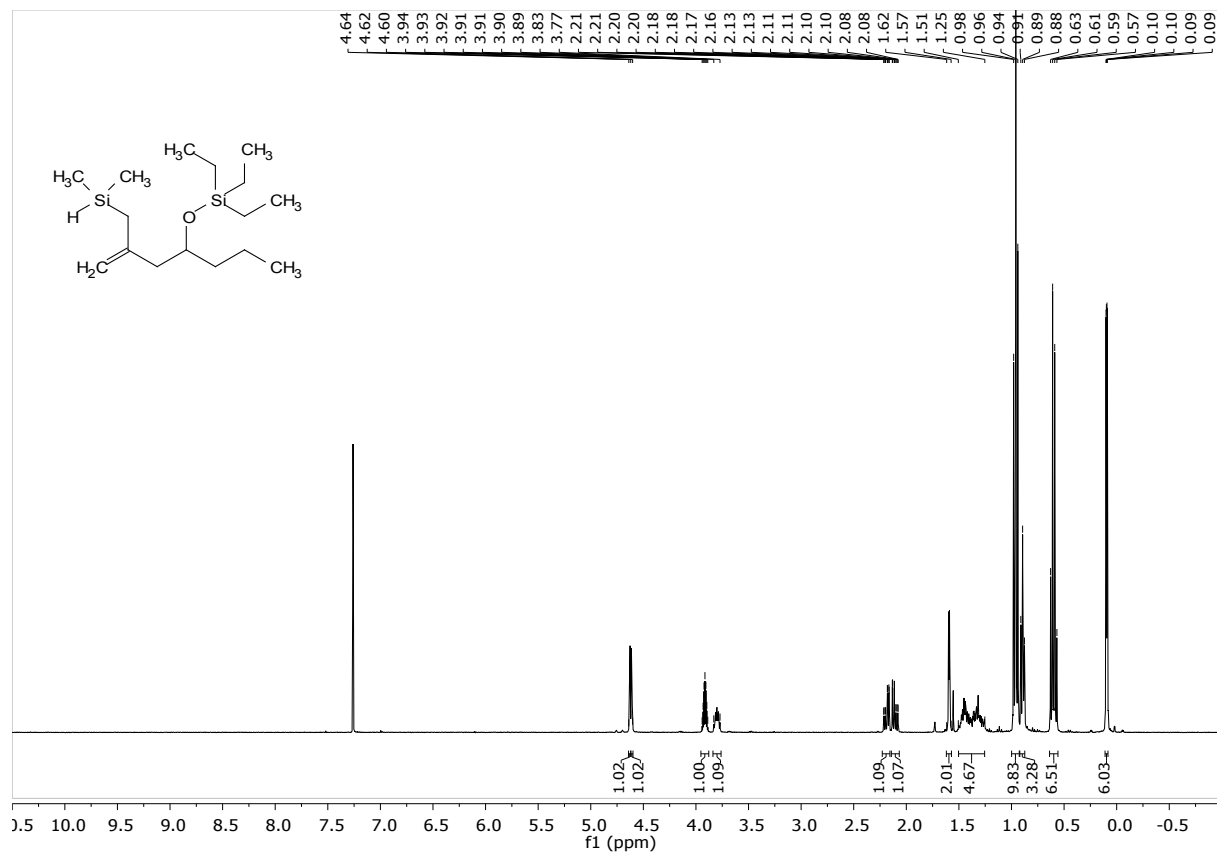
1-((2-(Bromomethyl)hept-1-en-4-yloxy)methyl)-4-methoxybenzene 7d



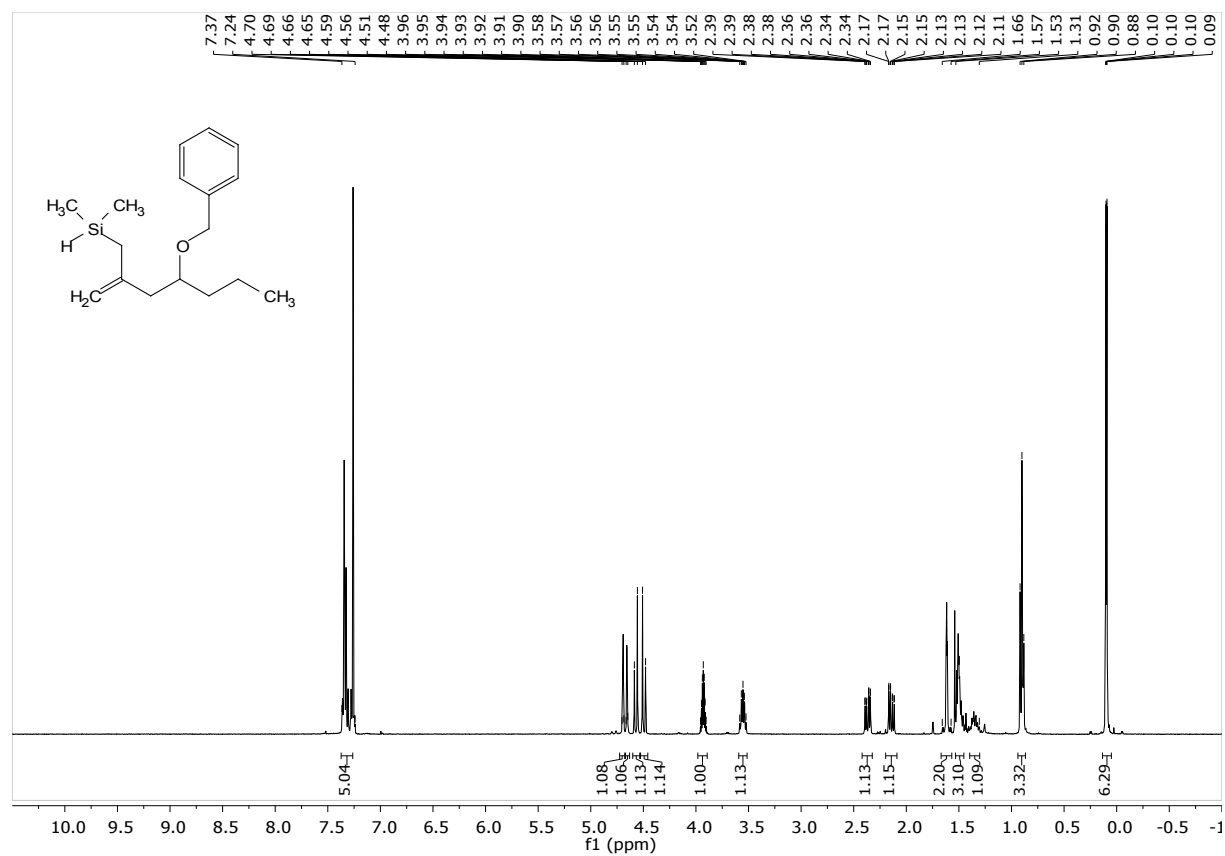
# Dimethyl(2-methyleneheptyl)silane 9a



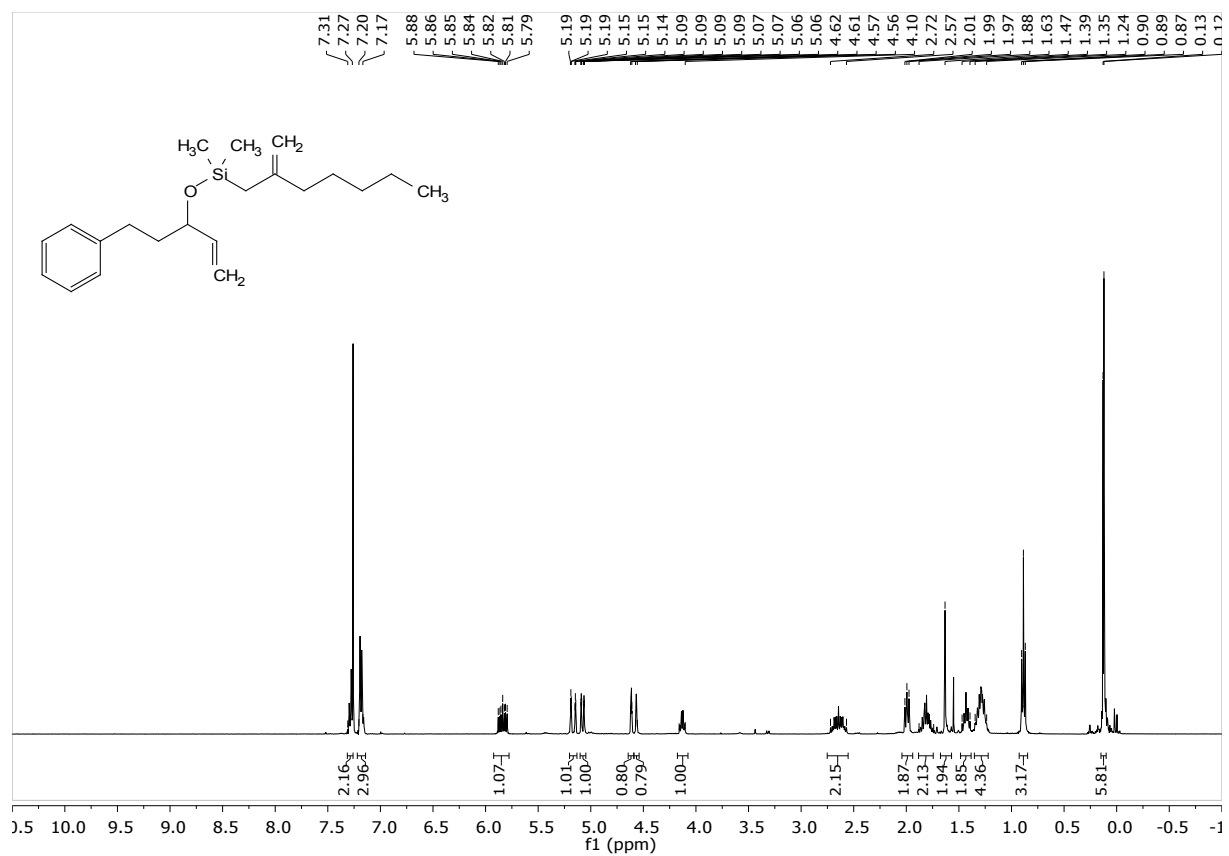
**(2-((Dimethylsilyl)methyl)hept-1-en-4-yloxy)triethylsilane 9b**



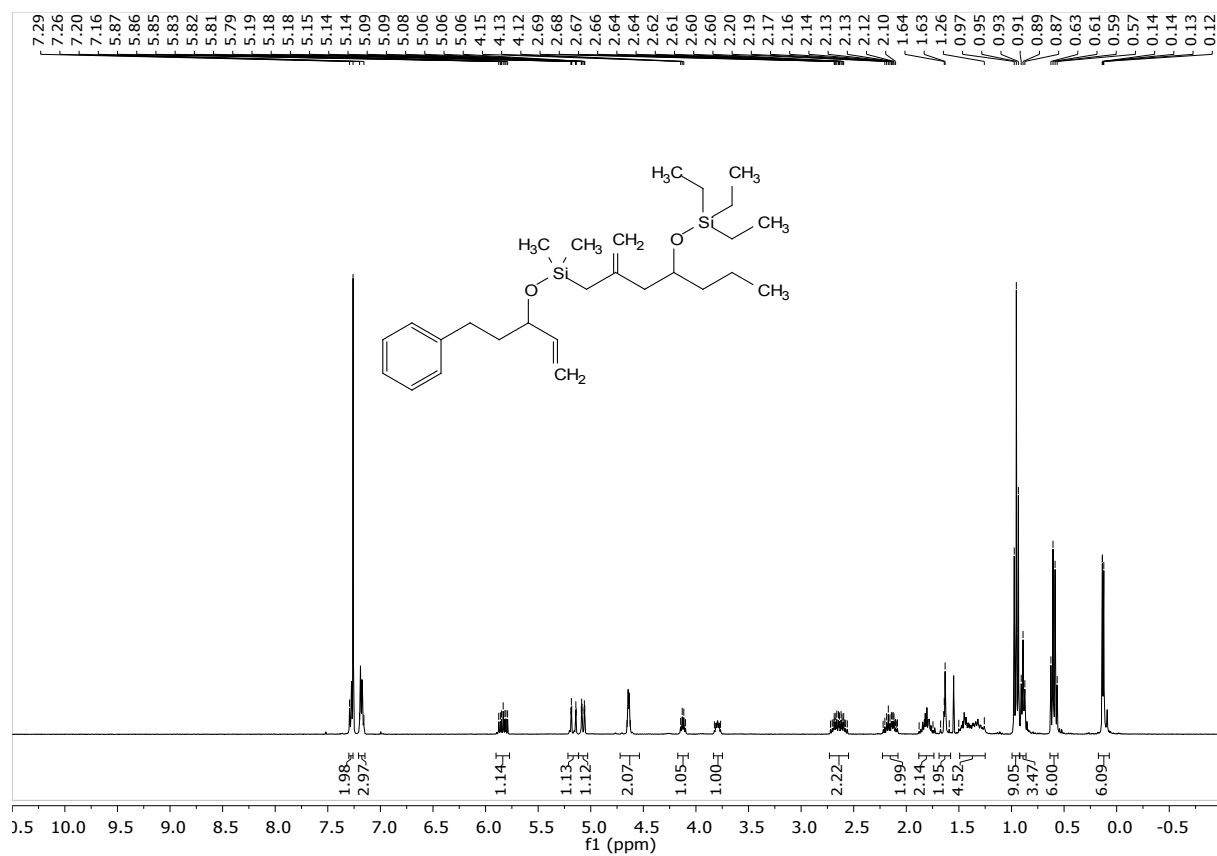
**(4-(Benzyloxy)-2-methyleneheptyl)dimethylsilane 9c**



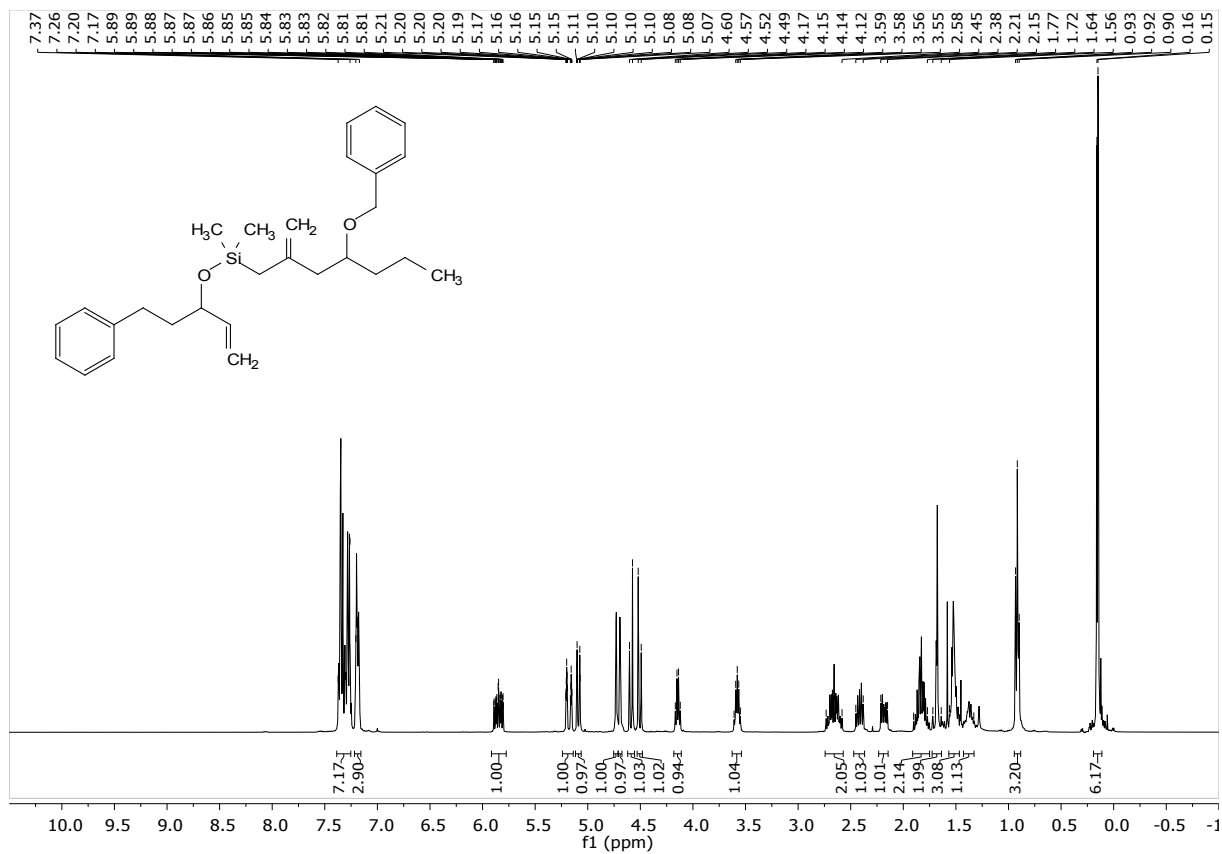
**Dimethyl(2-methyleneheptyl)(5-phenylpent-1-en-3-yloxy)silane 8a**



**3,3-Diethyl-9,9-dimethyl-7-methylene-11-phenethyl-5-propyl-4,10-dioxa-3,9-disilatridec-12-ene 8b**

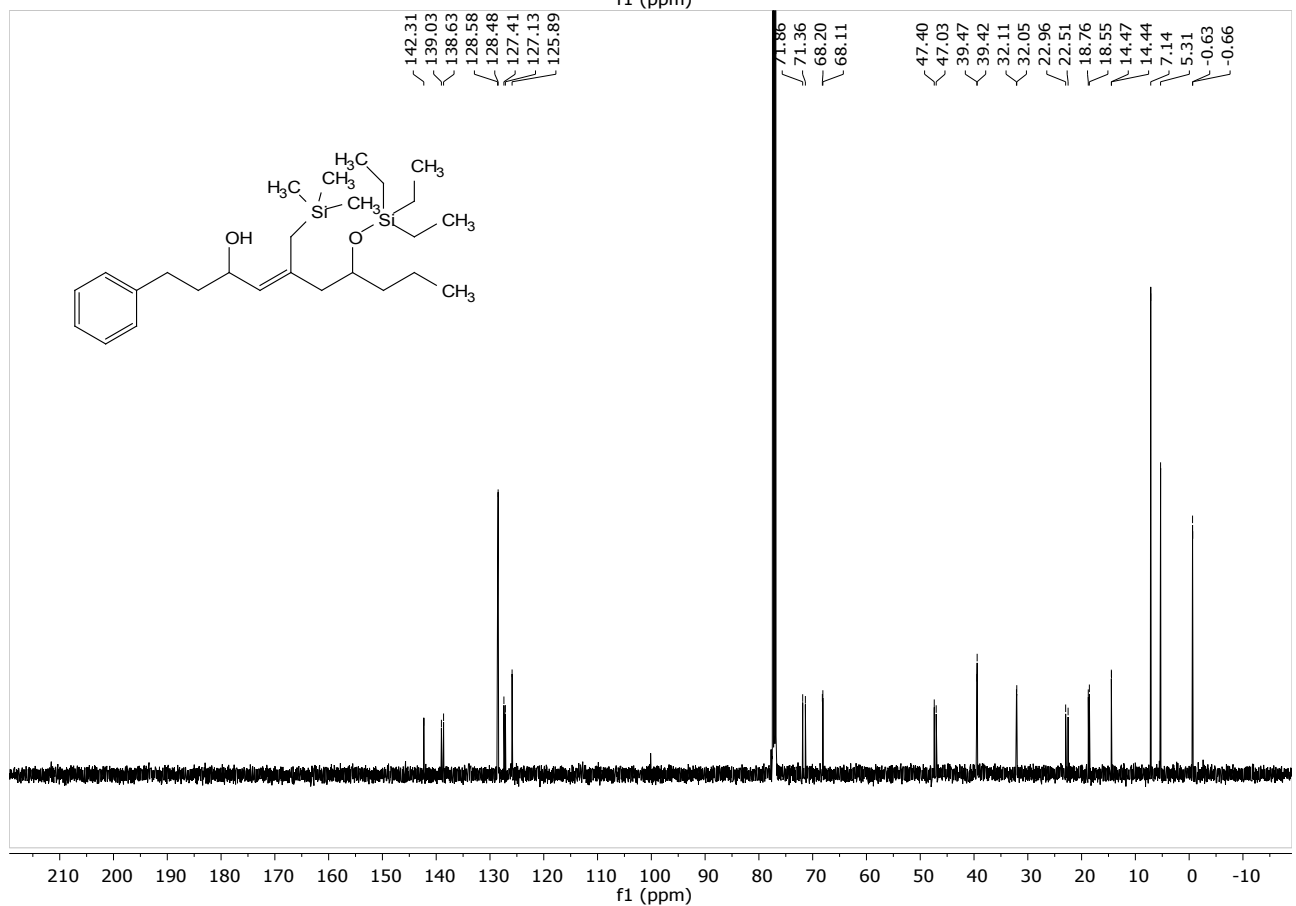
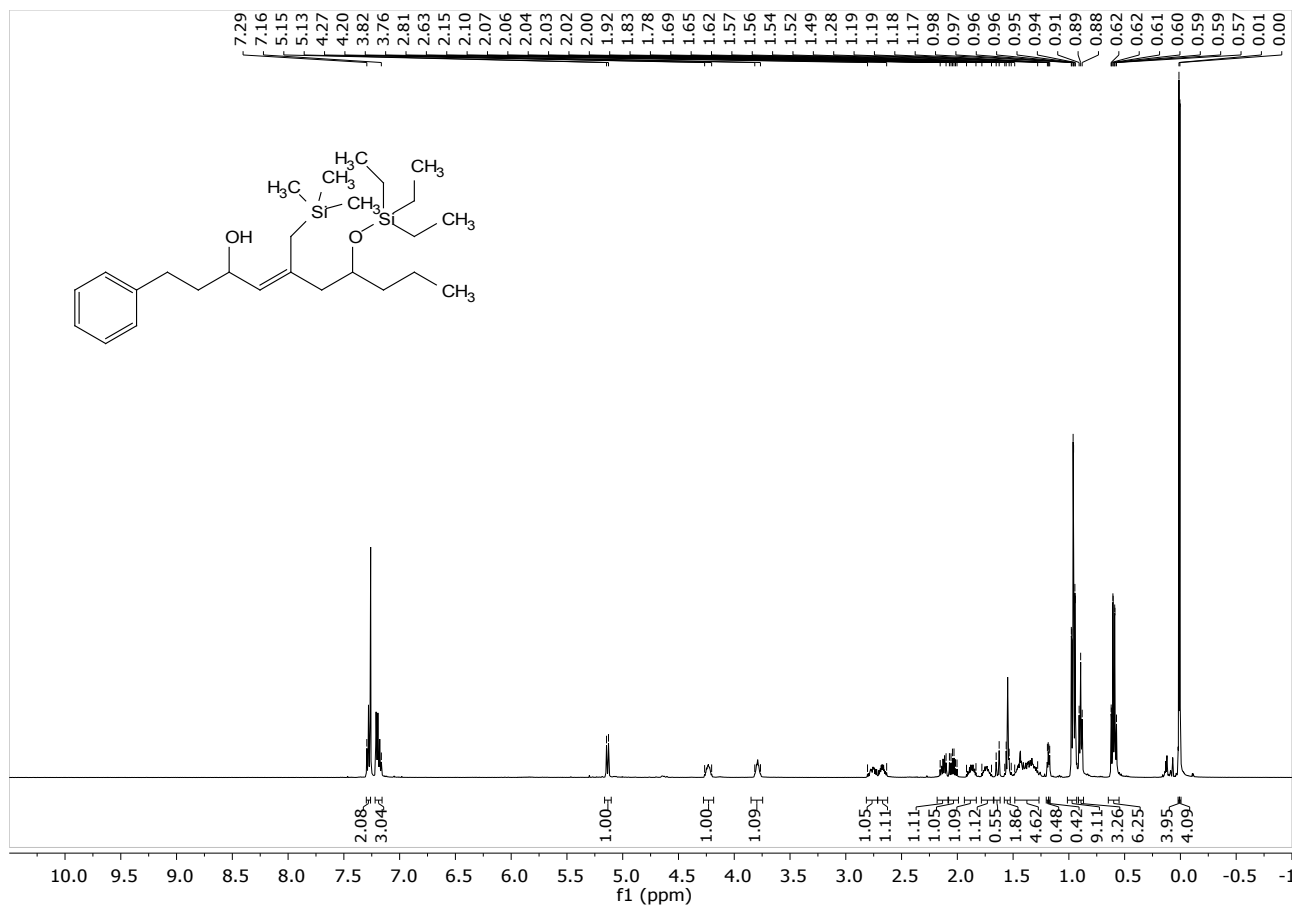


**(4-(Benzyloxy)-2-methyleneheptyl)dimethyl((5-phenylpent-1-en-3-yl)oxy)silane 8c**



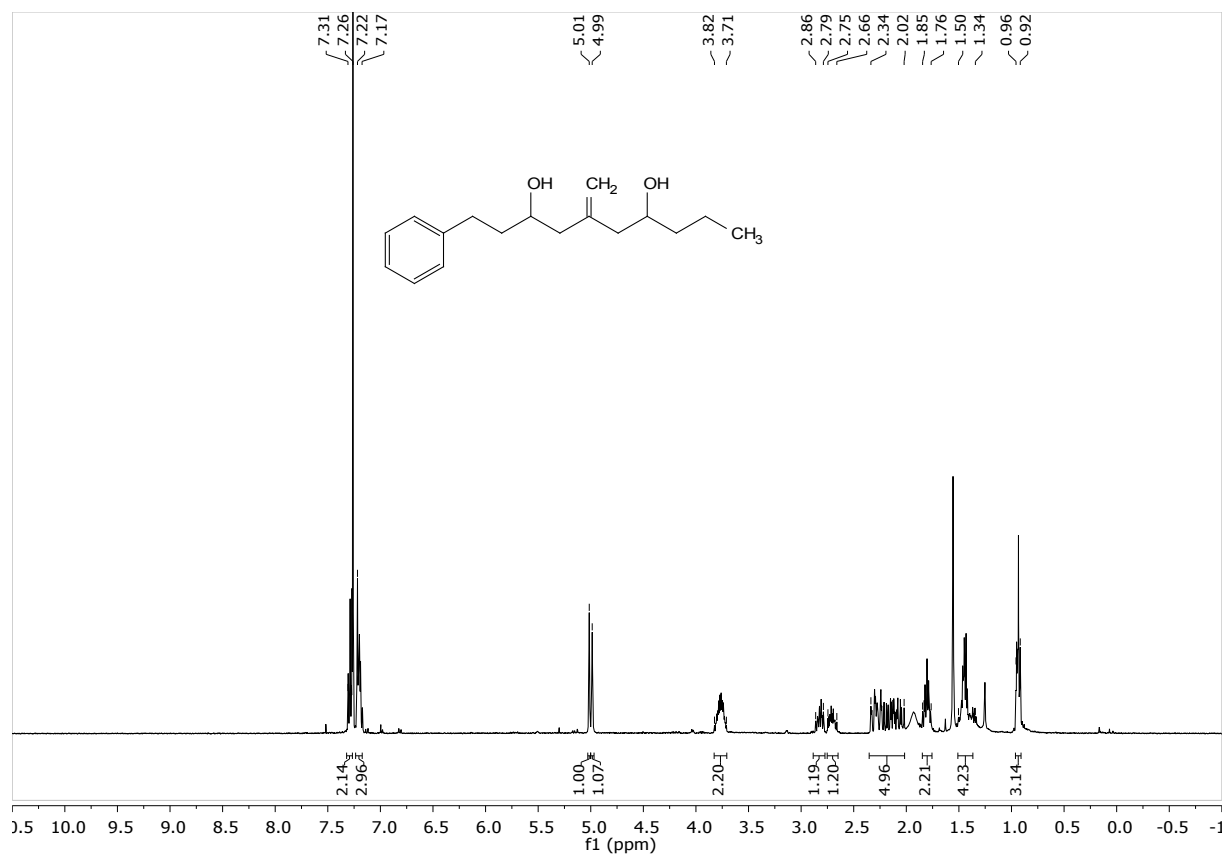


**(Z)-1-Phenyl-7-(triethylsilyloxy)-5-((trimethylsilyl)methyl)dec-4-en-3-ol 11b**

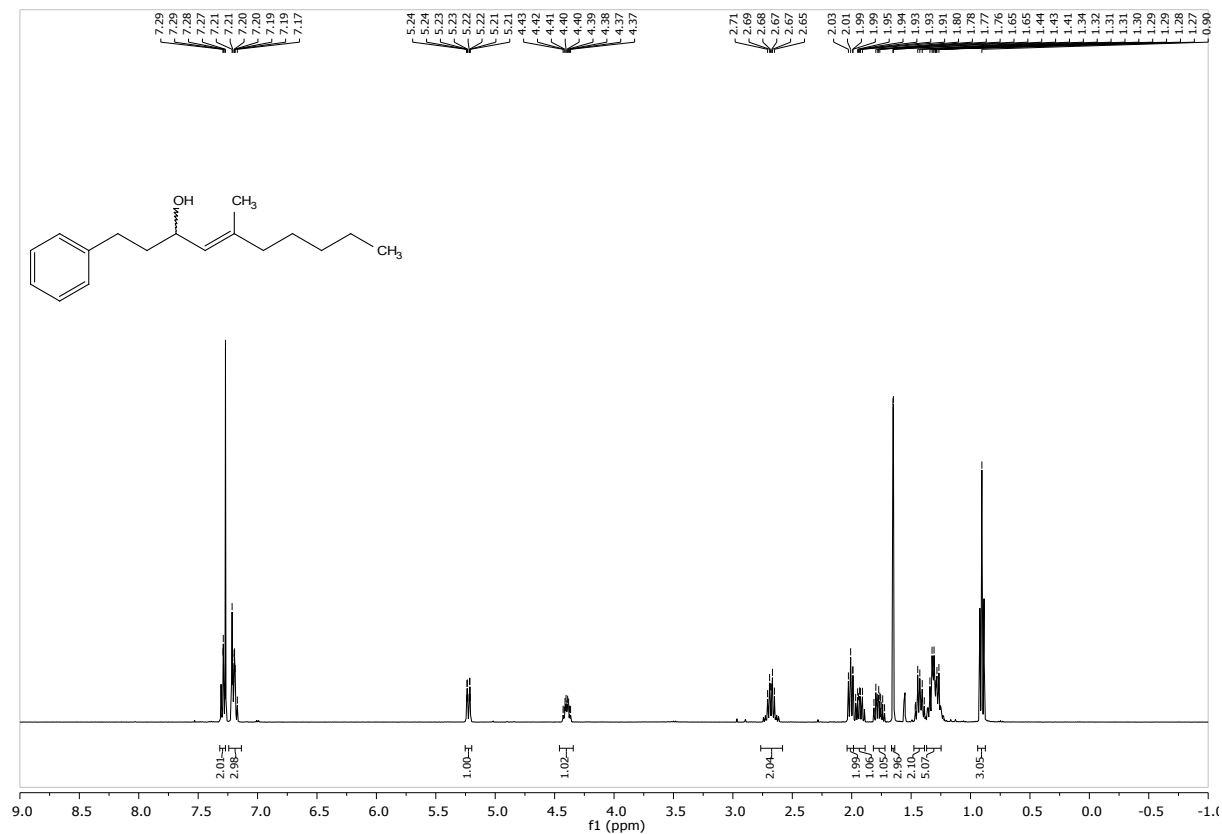




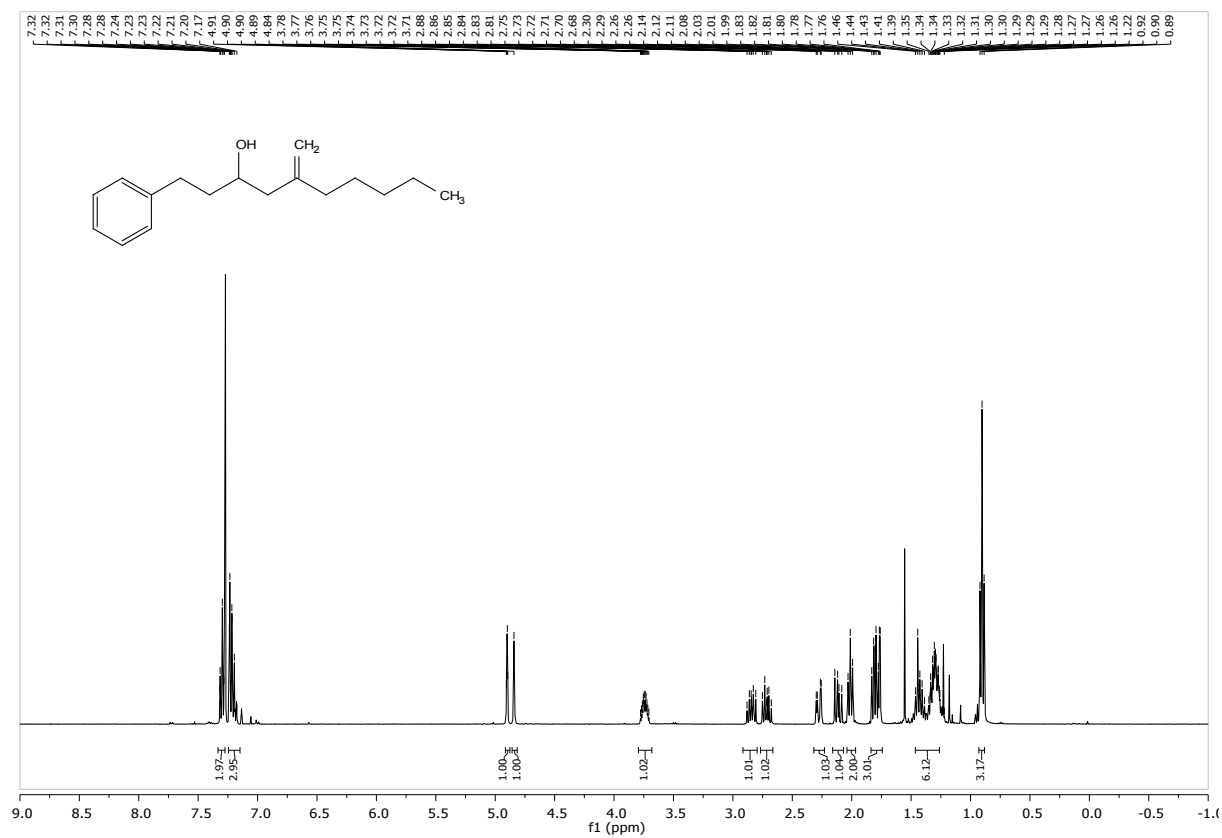
# 5-Methylene-1-phenyldecane-3,7-diol 13b



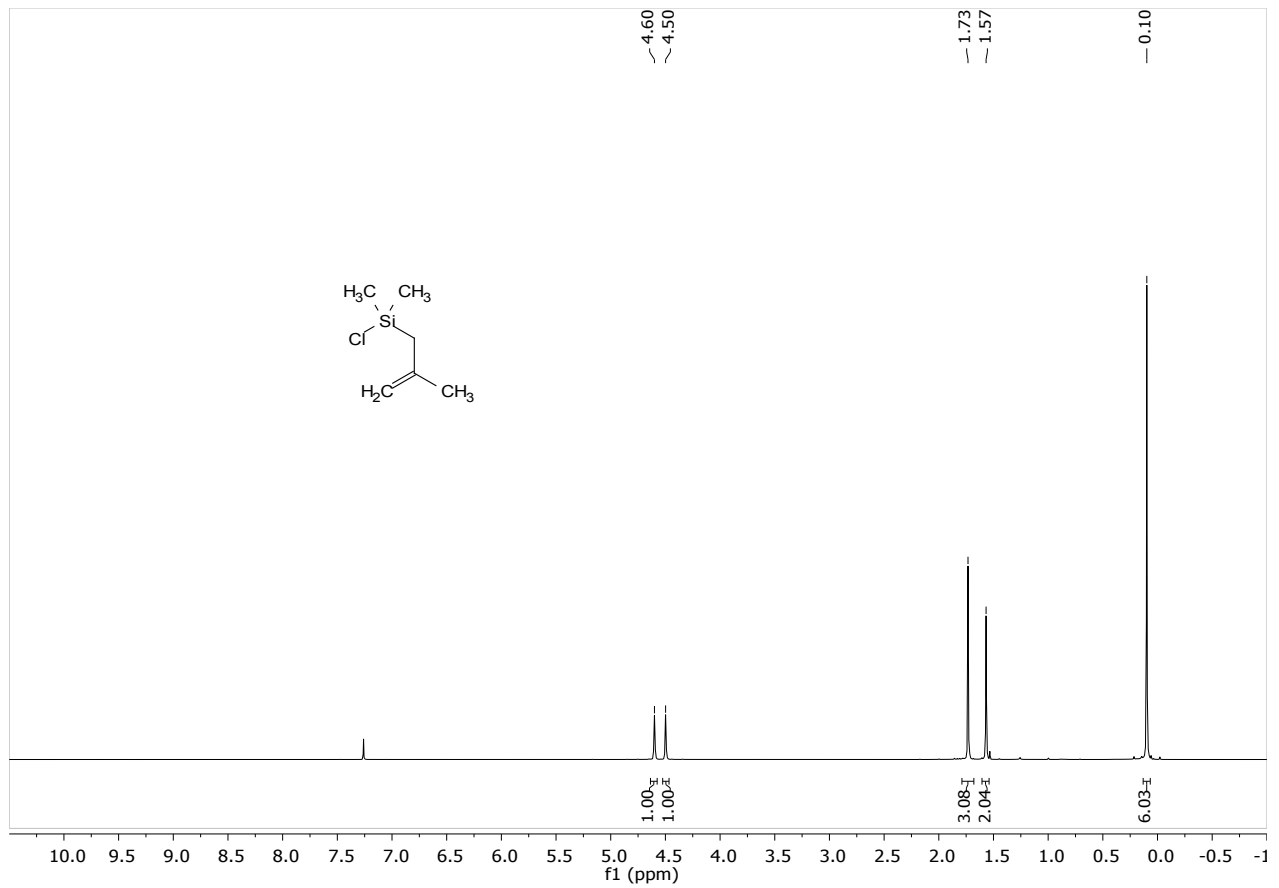
**(E)-5-Methyl-1-phenyldec-4-en-3-ol 12a**



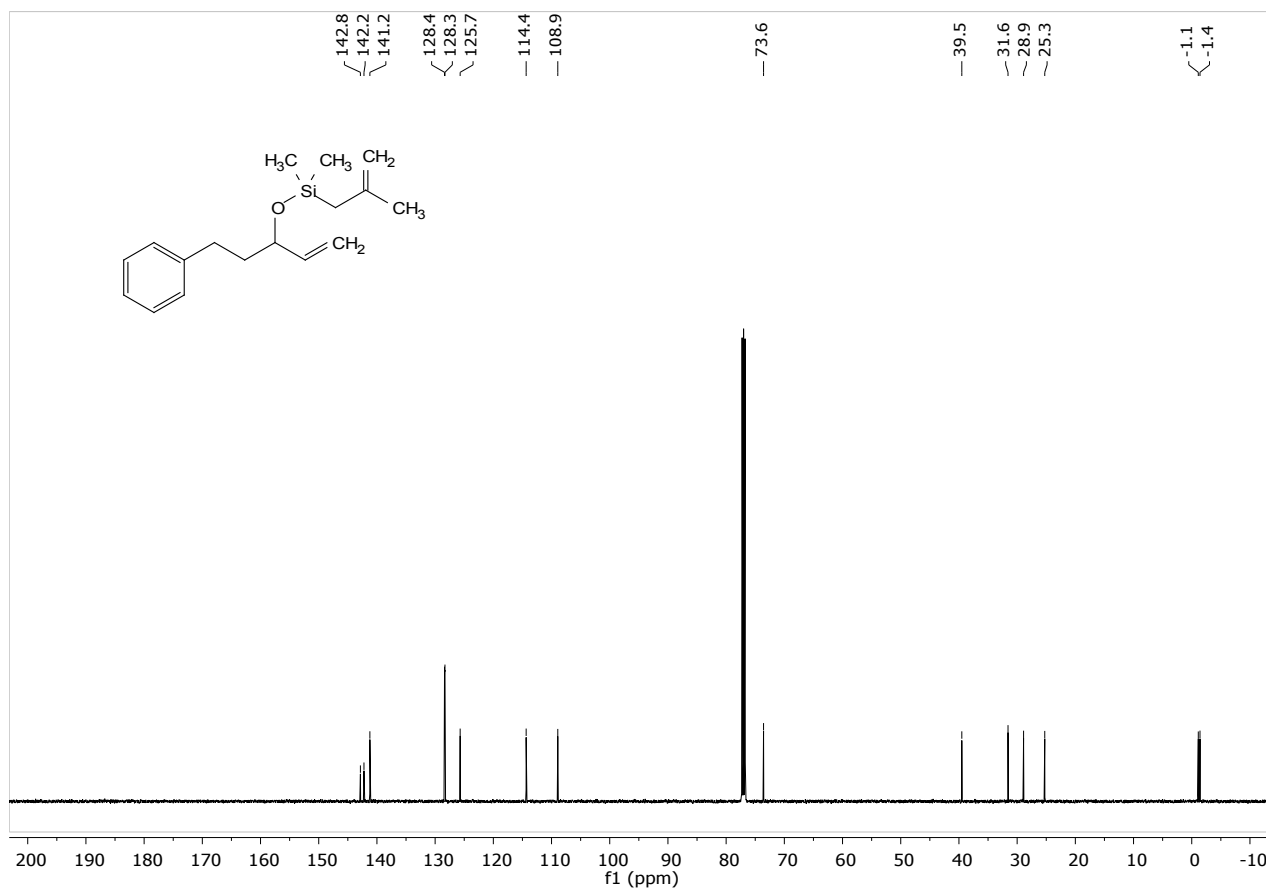
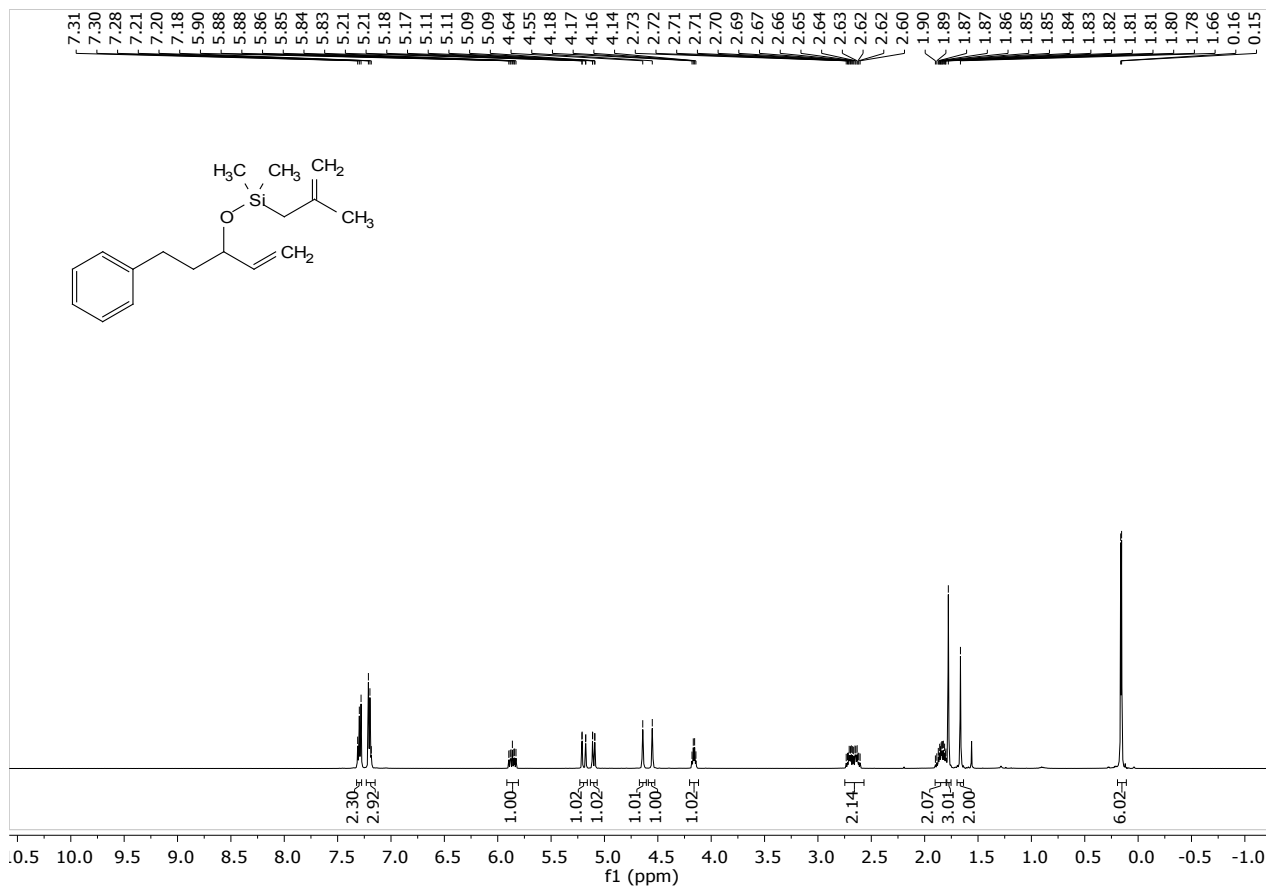
# 5-Methylene-1-phenyldecan-3-ol 13a



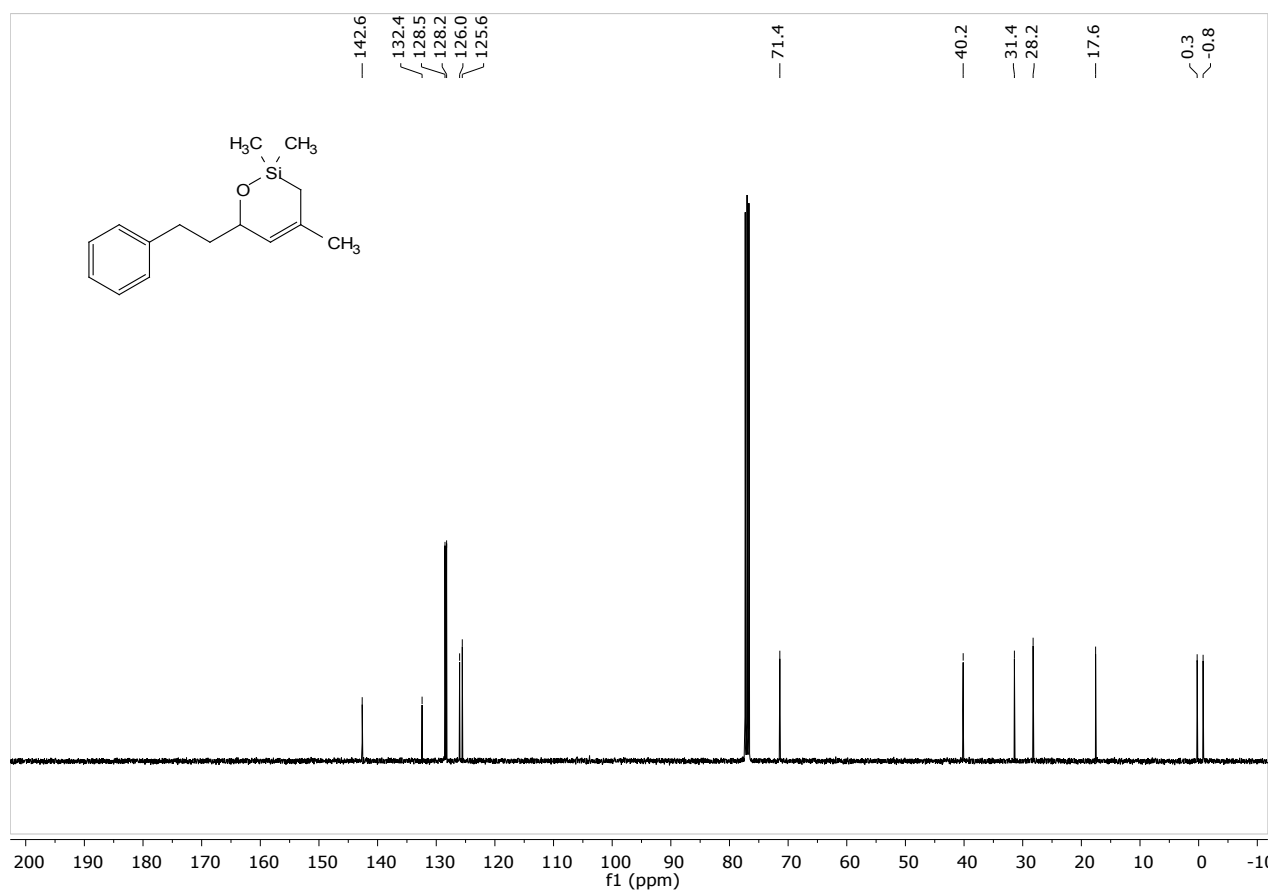
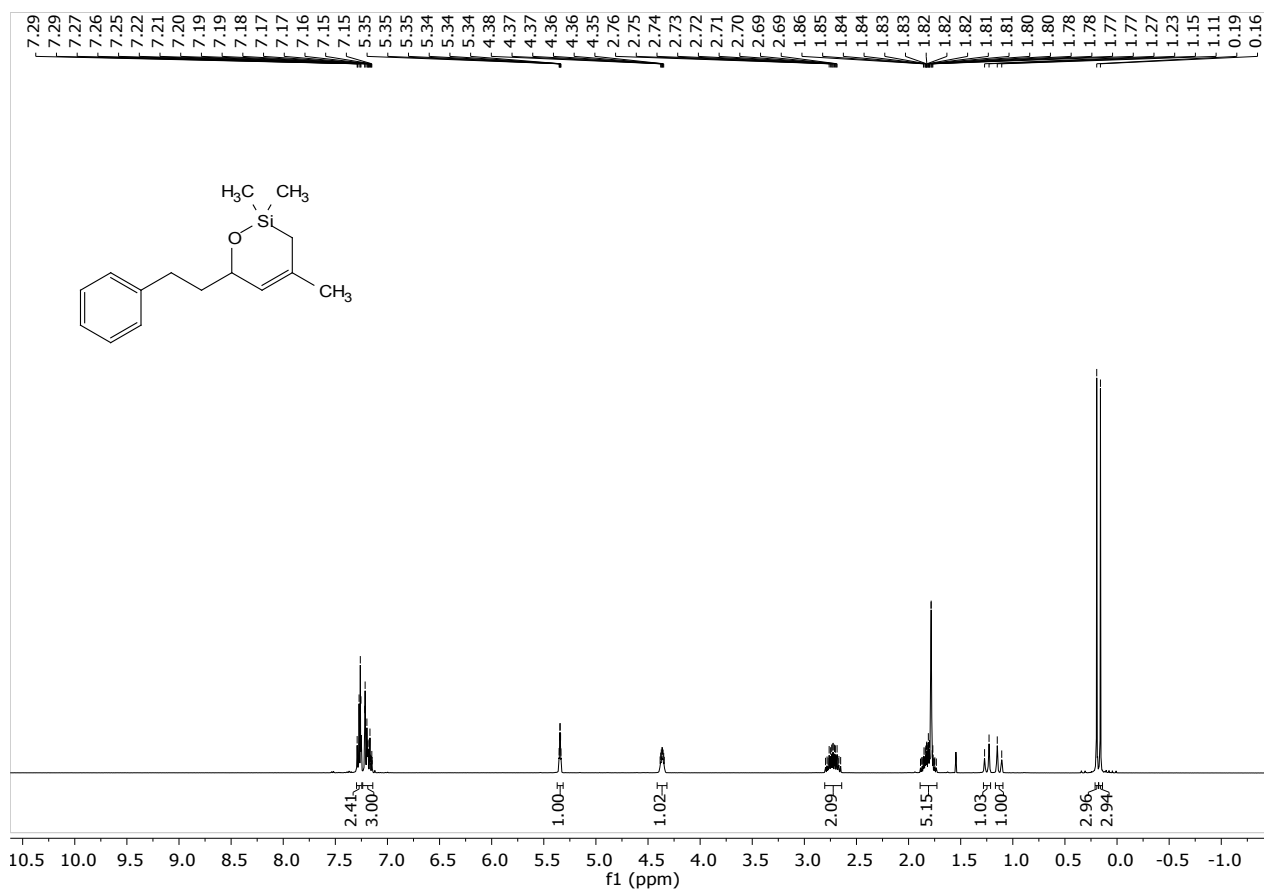
# Chlorodimethyl(2-methylallyl)silane



**Dimethyl(7-methylallyl)((5-phenylpent-1-en-3-yl)oxy)silane 15**



**5,8,8-Trimethyl-3-phenethyl-3,9-dihydro-2H-8,9-oxasiline 16**





**(Z)-2-Methyl-6-phenylhex-2-ene-1,4-diol 17**

