

Supporting Information

Understanding the Reactivity of Enol Ether Radical Cations: Investigation in Anodic Four-Membered Carbon Ring Formation

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1. Additional Figures

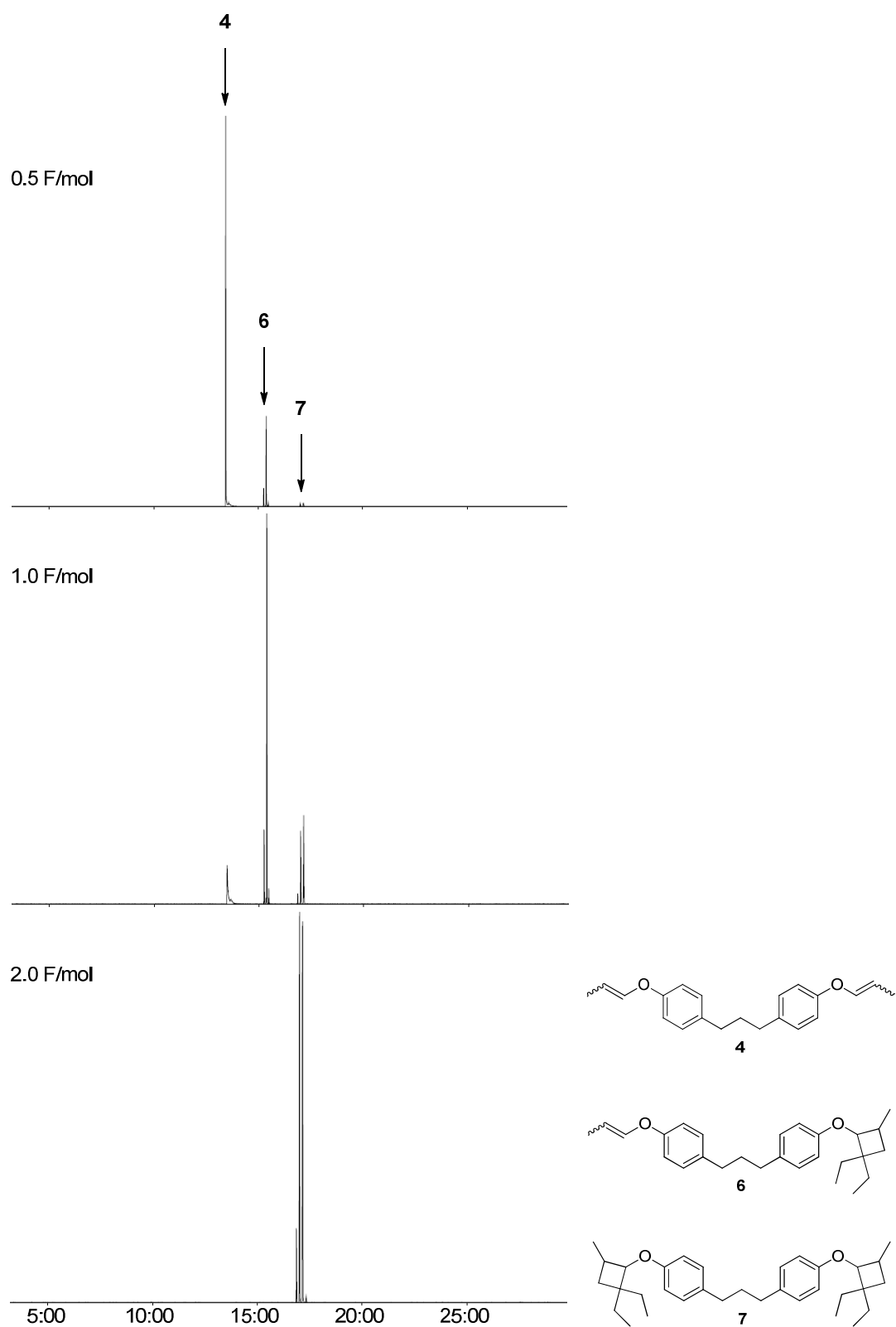


Figure S1. GC-MS spectra of the reaction of (**4**). For clarity, only the peaks containing fragment ion of $m/z = 308$ (associated with **4**⁺) are shown.

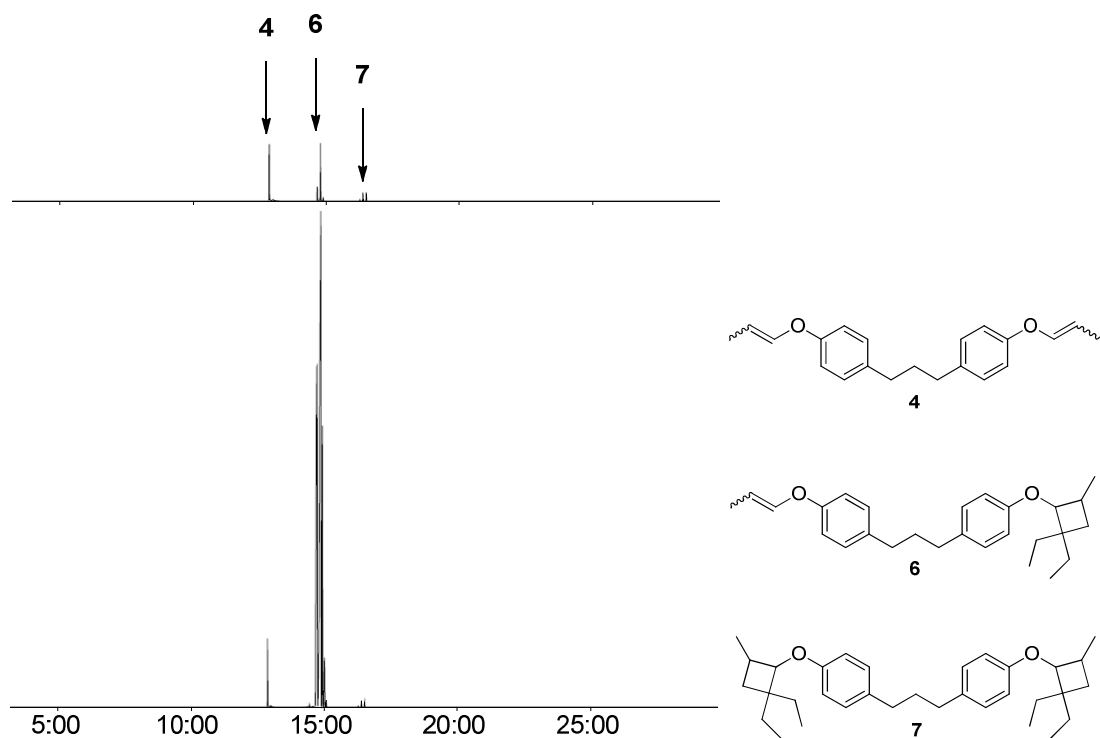


Figure S2. GC-MS spectra of the co-injection experiment. Above: the reaction mixture *before* addition of the alternatively synthesized **6**; below: the reaction mixture *after* addition of the alternatively synthesized **6**. For clarity, only the peaks containing fragment ion of $m/z = 308$ (associated with **4**⁺) are shown.

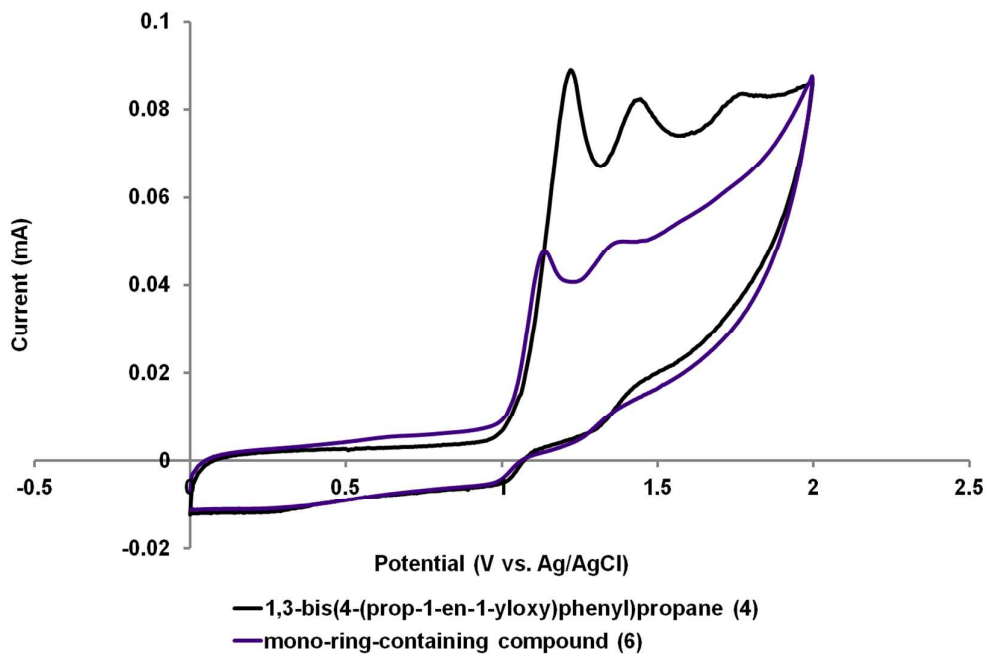


Figure S3. Cyclic voltammograms of 1,3-bis(4-(prop-1-en-1-yloxy)phenyl)propane (**4**) and the mono-ring-containing compound (**6**) in 0.10 M LiClO₄/MeNO₂. Concentration of the substrates: 2.0 mM; scan rate: 50 mV/s.

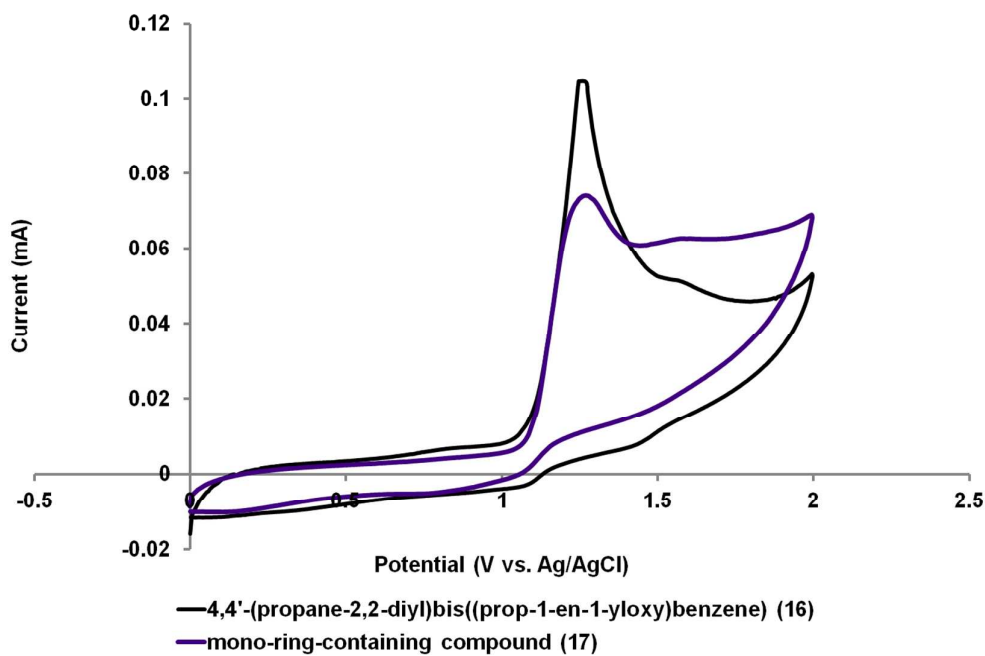
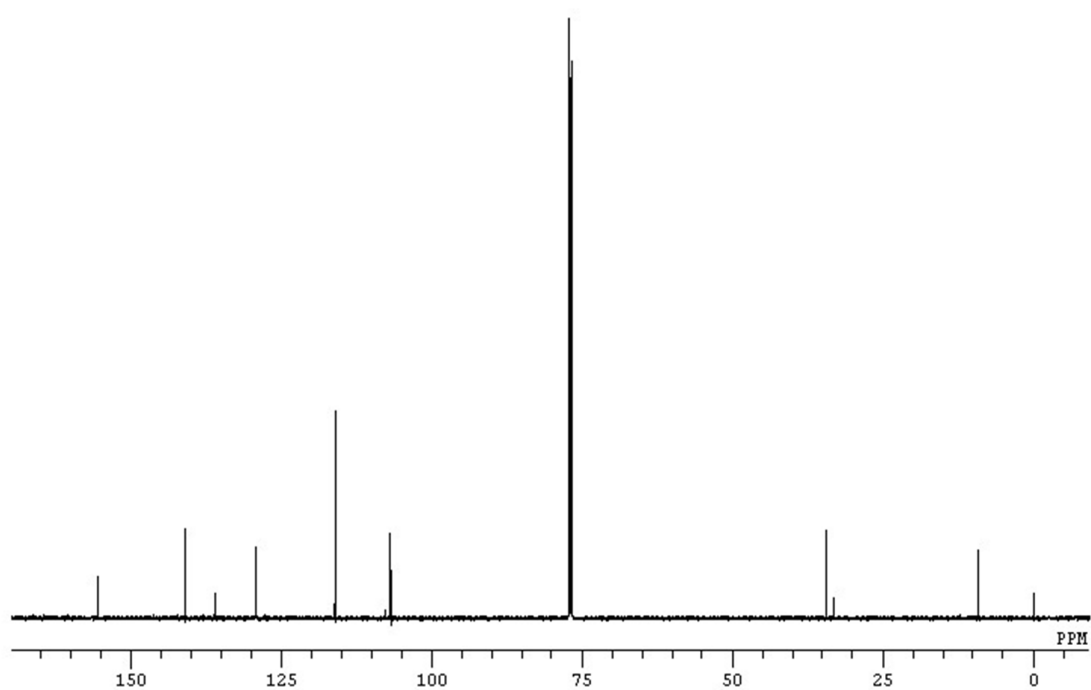
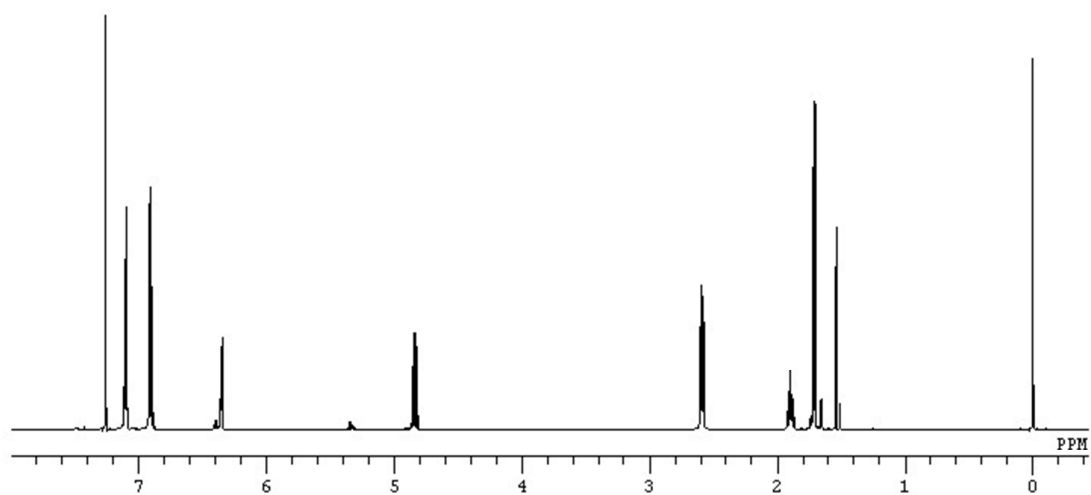
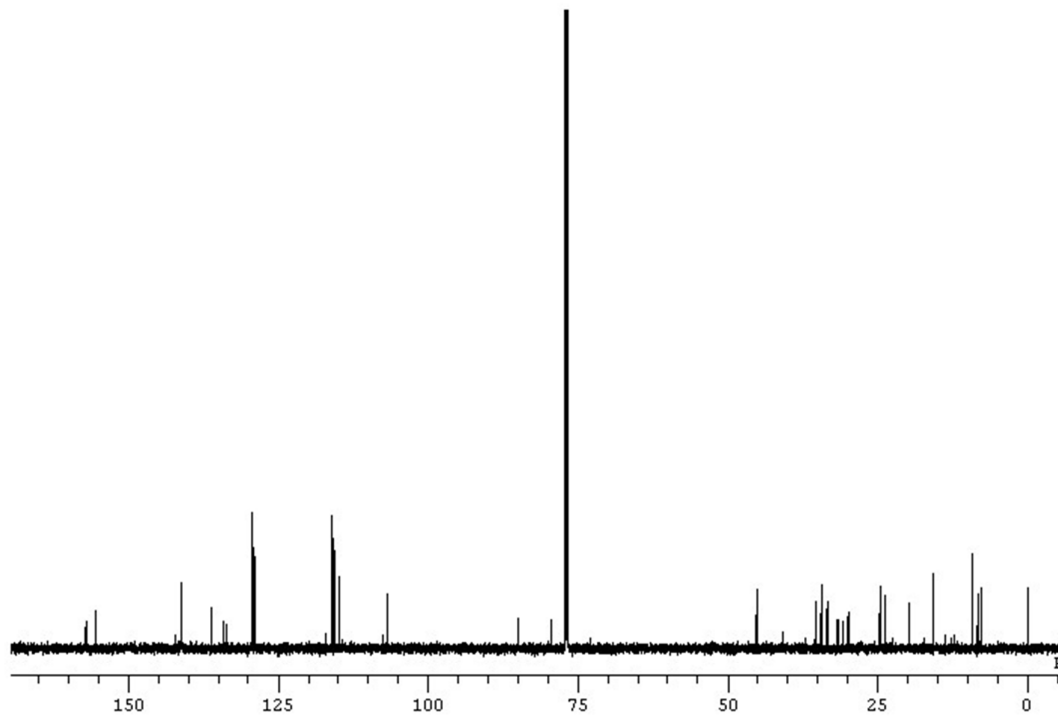
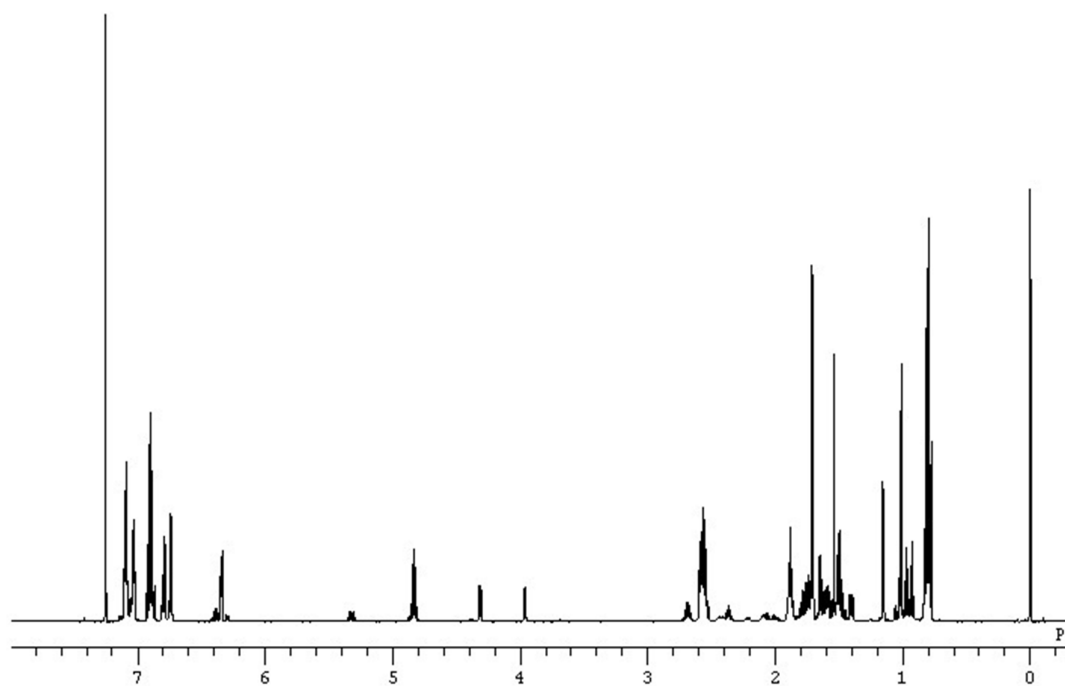


Figure S4. Cyclic voltammograms of 4,4'-(propane-2,2-diyl)bis((prop-1-en-1-yloxy)benzene) (**16**) and the mono-ring-containing compound (**17**) in 0.10 M LiClO₄/MeNO₂. Concentration of the substrates: 2.0 mM; scan rate: 50 mV/s.

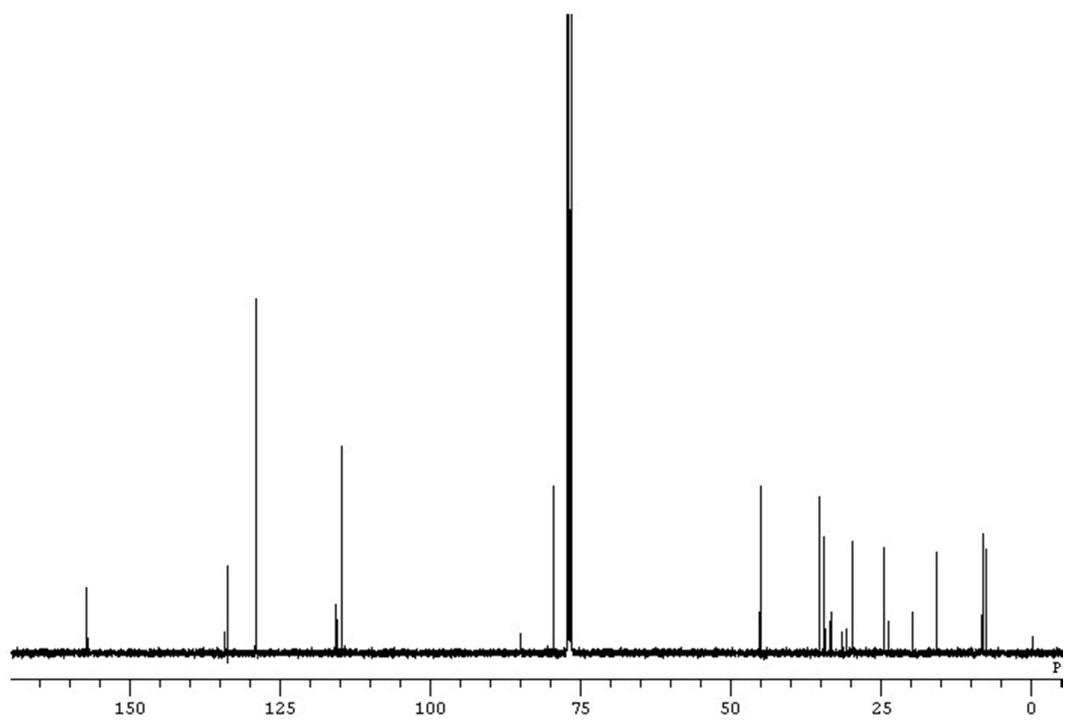
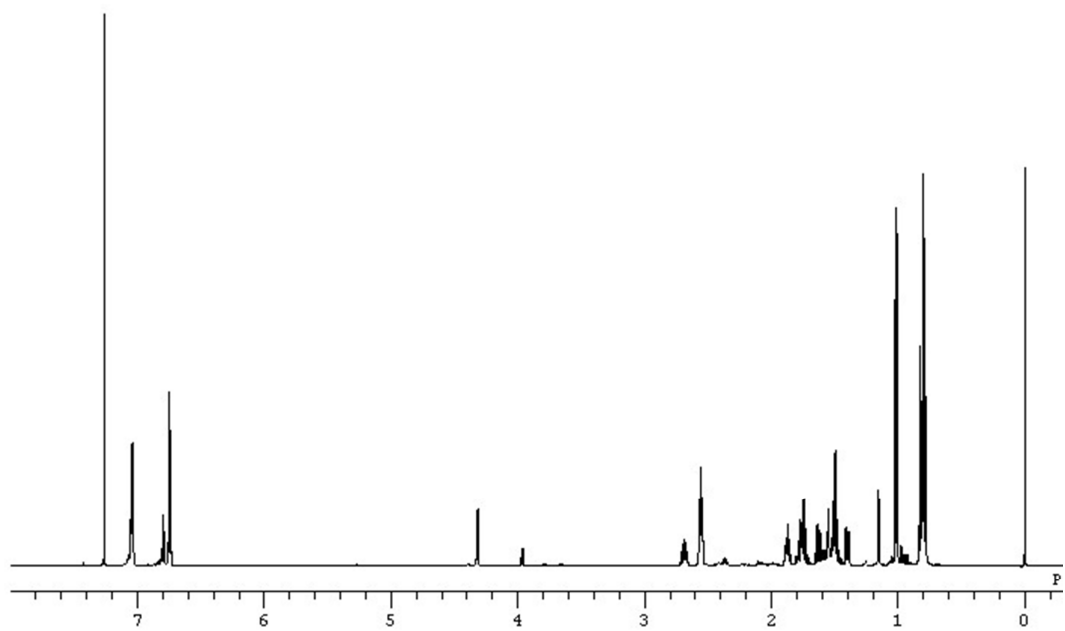
1,3-bis(4-(prop-1-en-1-yloxy)phenyl)propane (**4**), mixture of diastereomers



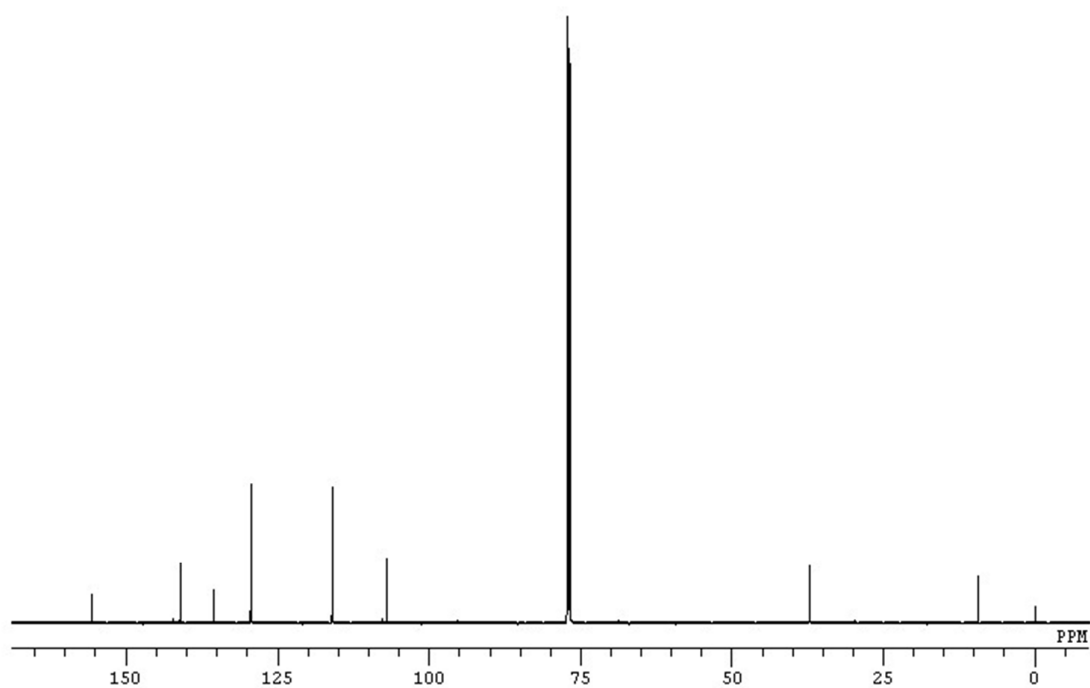
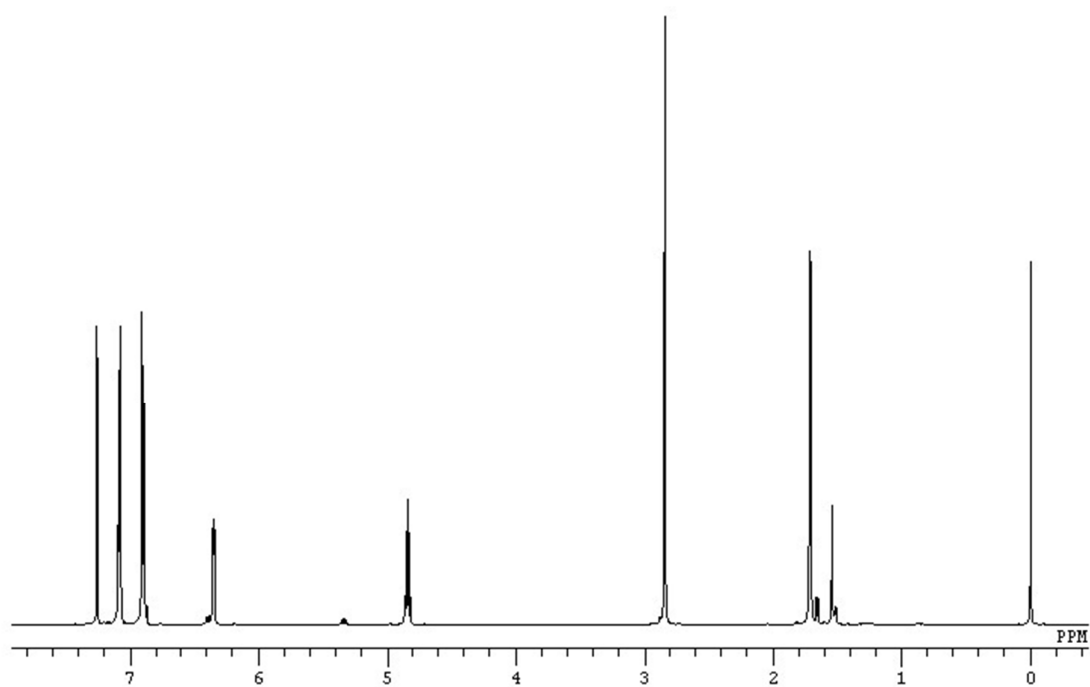
1-(2,2-diethyl-4-methylcyclobutoxy)-4-(3-(4-(prop-1-en-1-yloxy)phenyl)propyl)benzene (**6**),
mixture of diastereomers



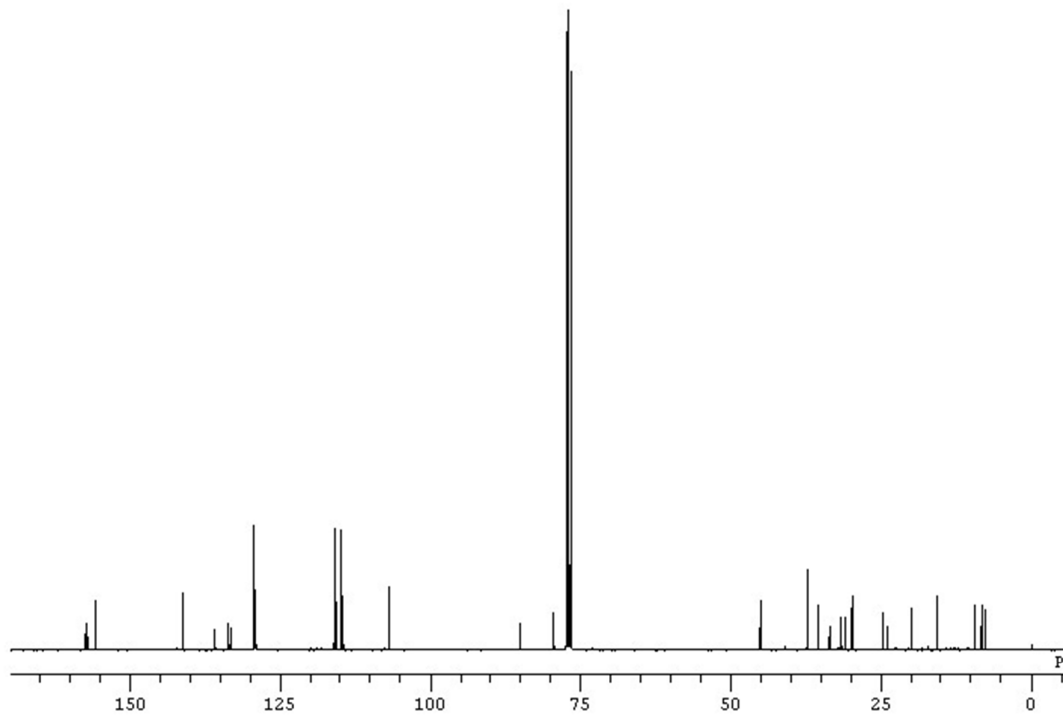
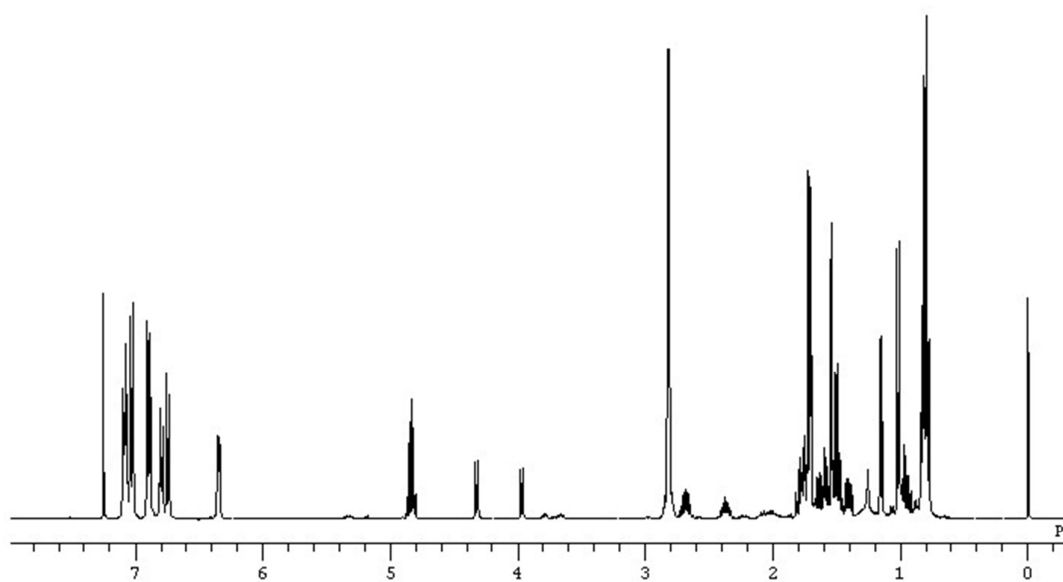
1,3-bis(4-(2,2-diethyl-4-methylcyclobutoxy)phenyl)propane (**7**), mixture of diastereomers



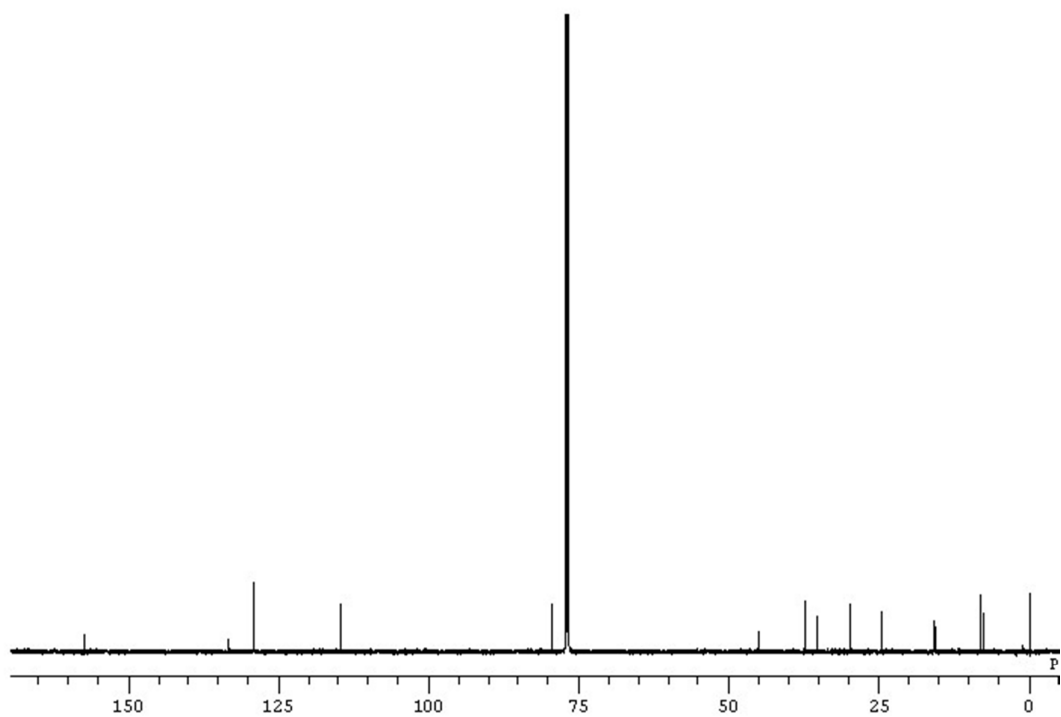
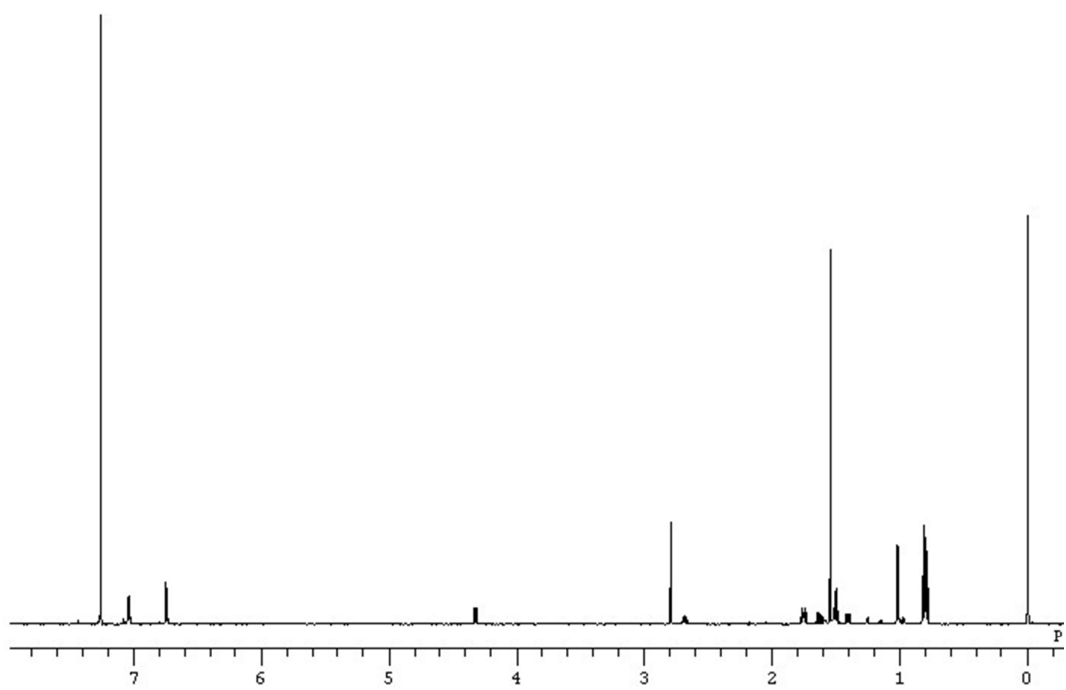
1,2-bis(4-(prop-1-en-1-yloxy)phenyl)ethane (**8**), mixture of diastereomers



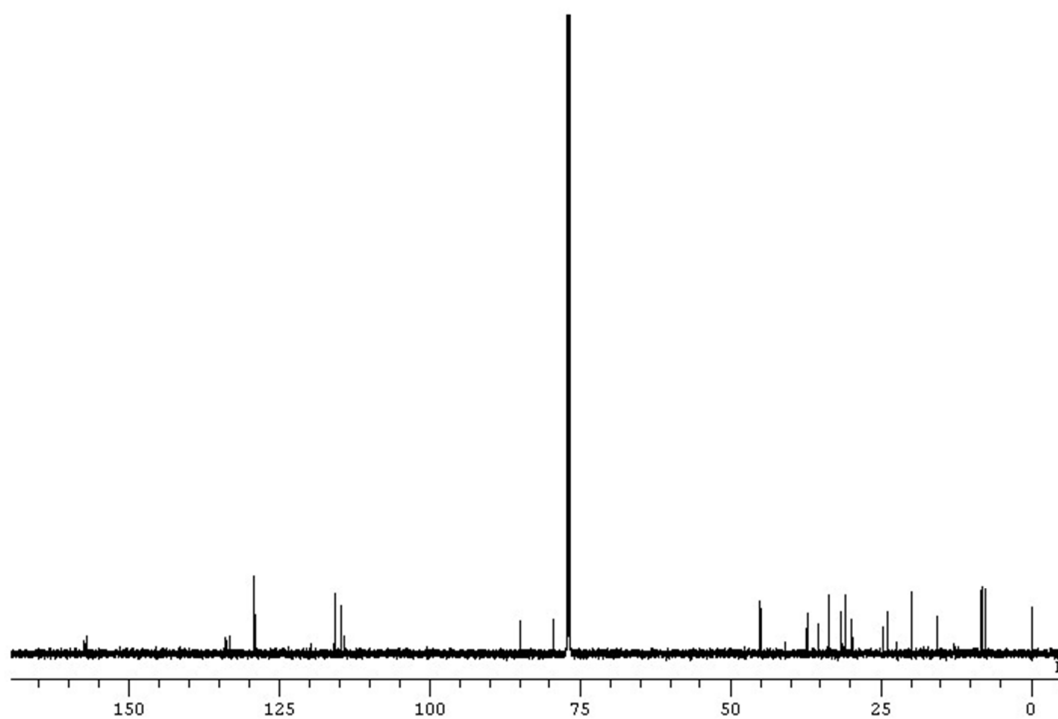
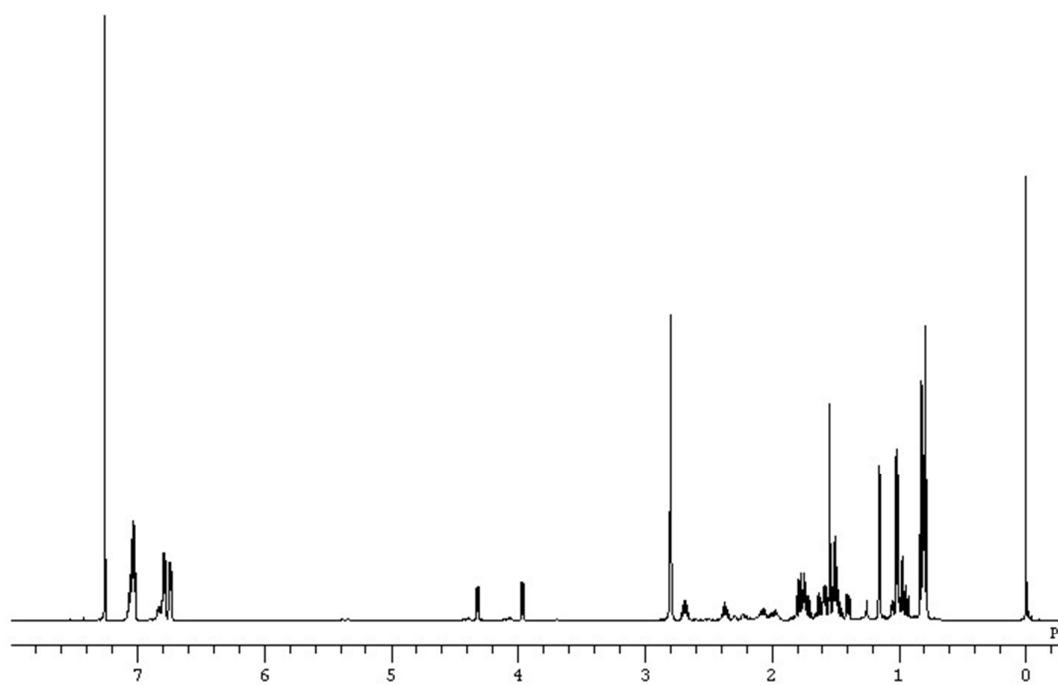
1-(2,2-diethyl-4-methylcyclobutoxy)-4-(4-(prop-1-en-1-yloxy)phenethyl)benzene (**12**), mixture of diastereomers



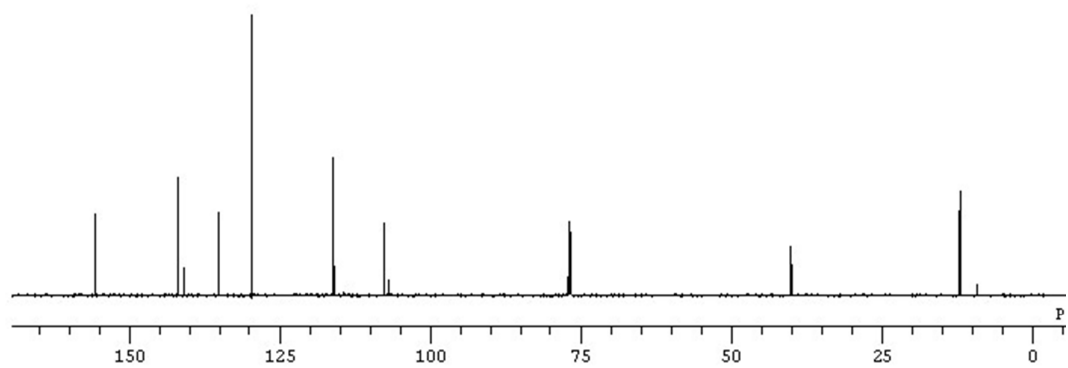
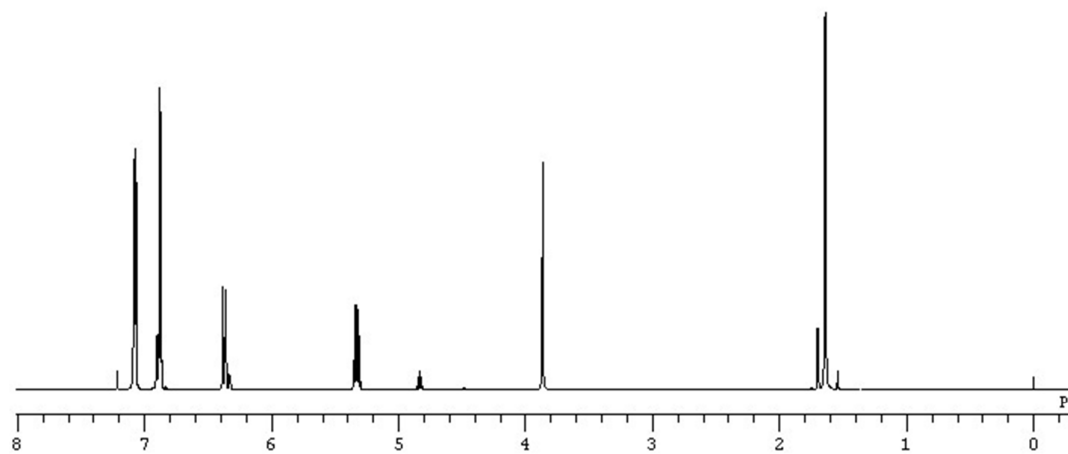
1,2-bis(4-(2,2-diethyl-4-methylcyclobutoxy)phenyl)ethane (**13**), one diastereomer



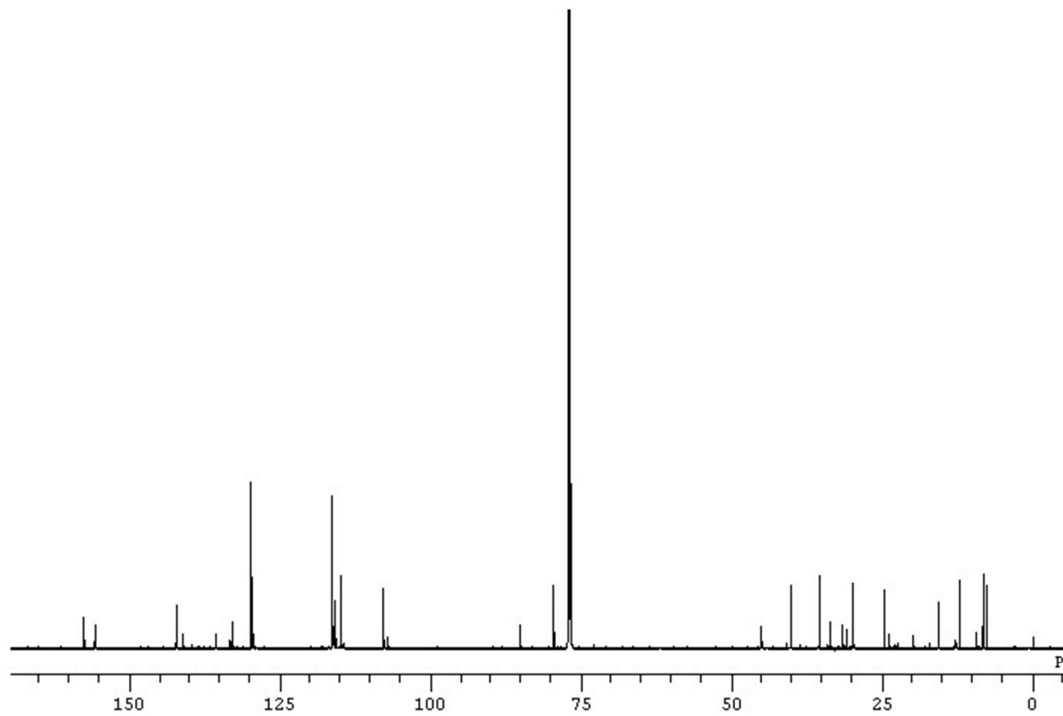
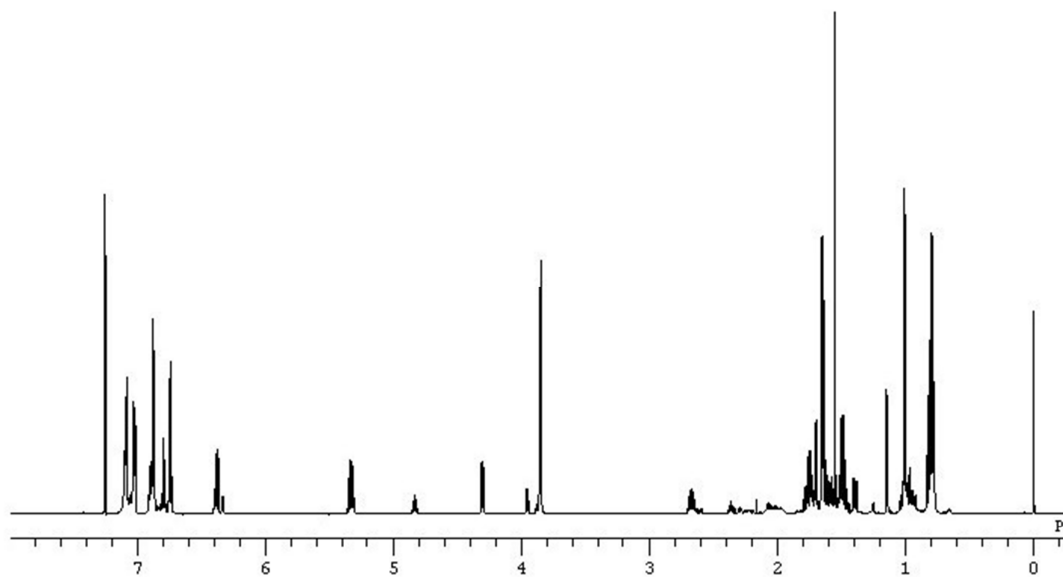
1,2-bis(4-(2,2-diethyl-4-methylcyclobutoxy)phenyl)ethane (**13**), mixture of other diastereomers



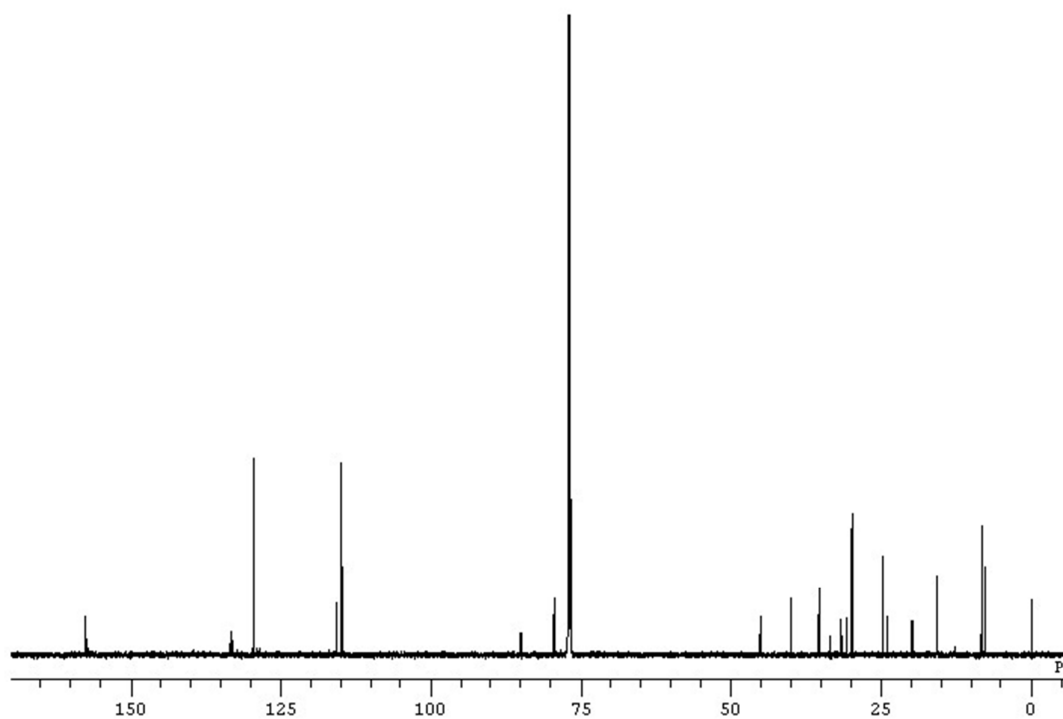
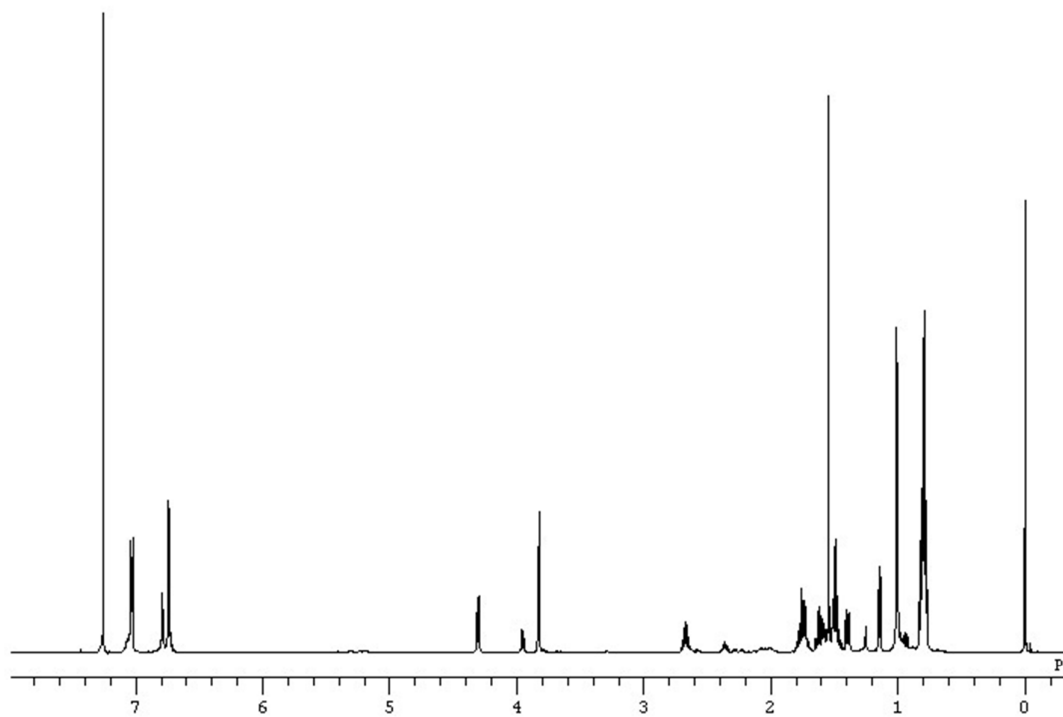
bis(4-(prop-1-en-1-yloxy)phenyl)methane (**9**), mixture of diastereomers



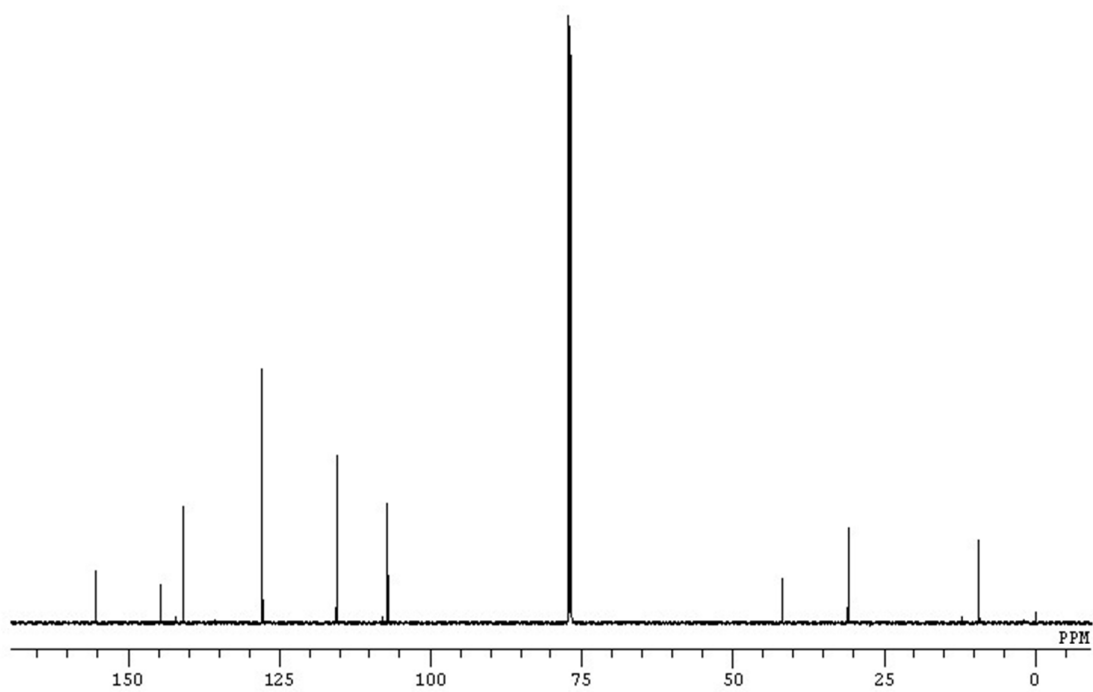
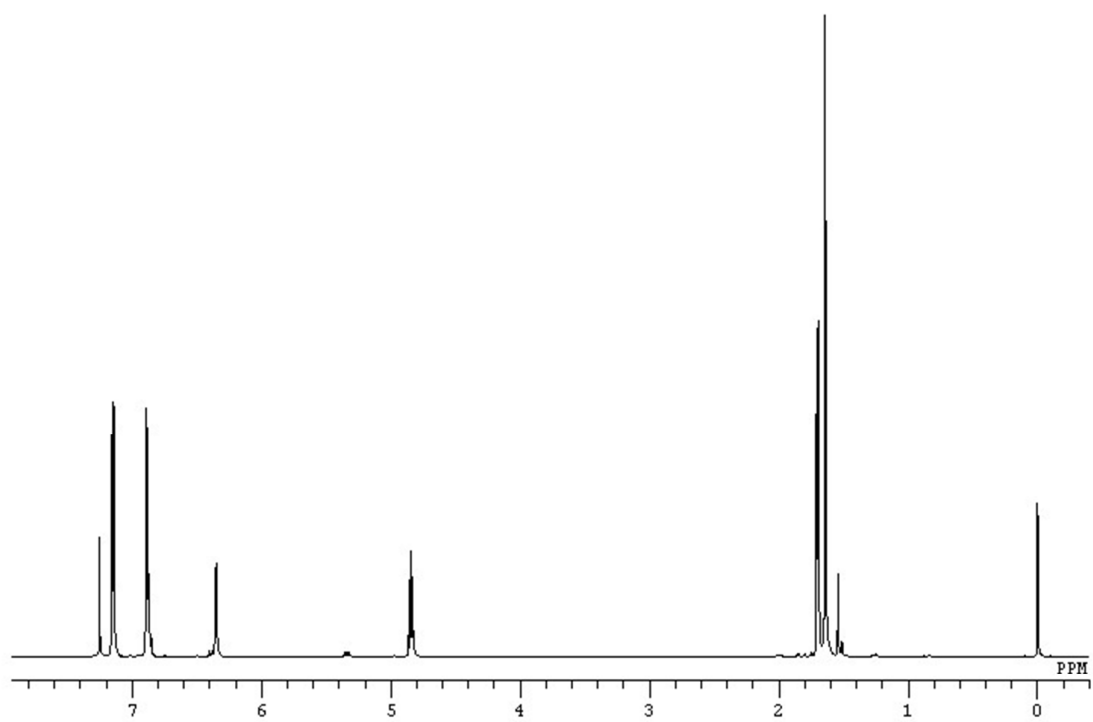
1-(2,2-diethyl-4-methylcyclobutoxy)-4-(4-(prop-1-en-1-yloxy)benzyl)benzene (**14**), mixture of diastereomers



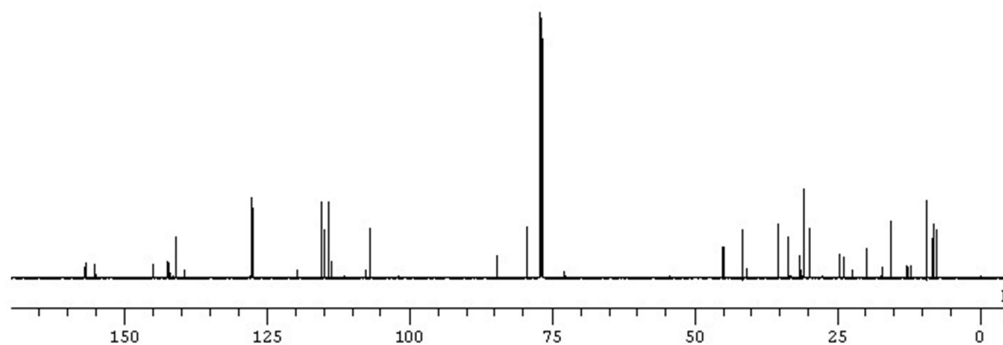
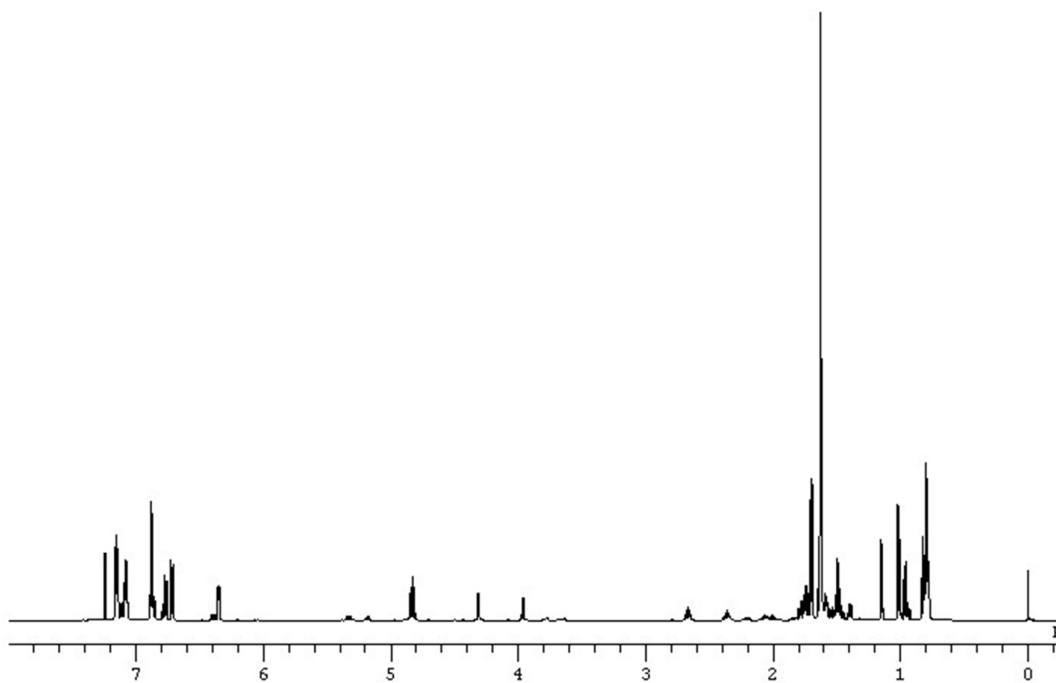
bis(4-(2,2-diethyl-4-methylcyclobutoxy)phenyl)methane (**15**), mixture of diastereomers



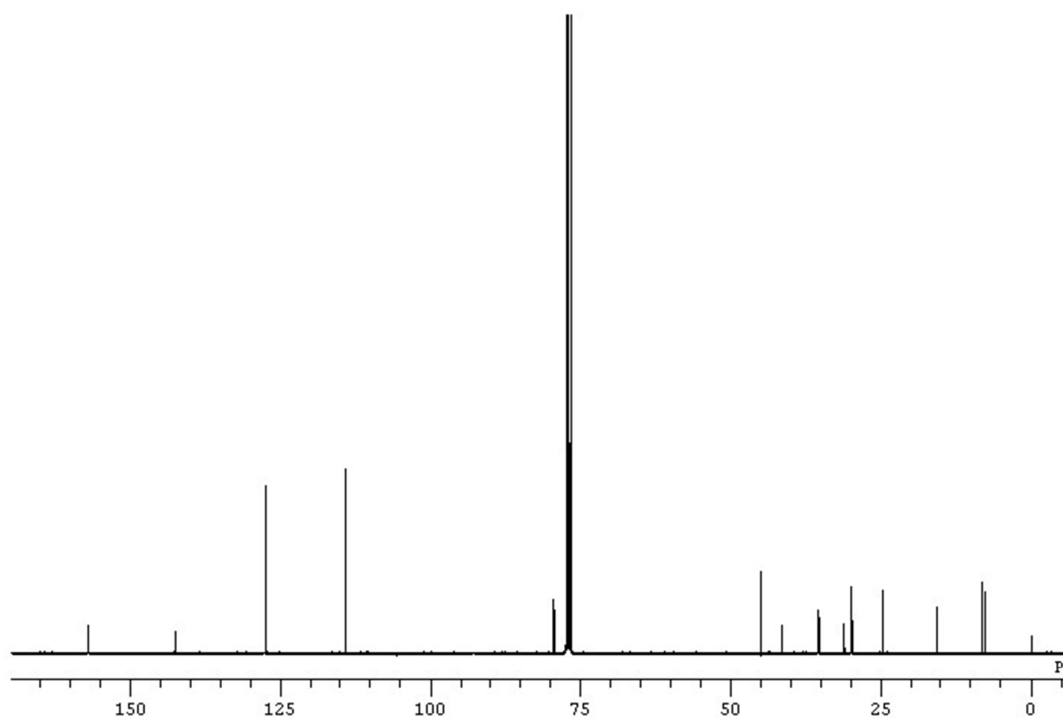
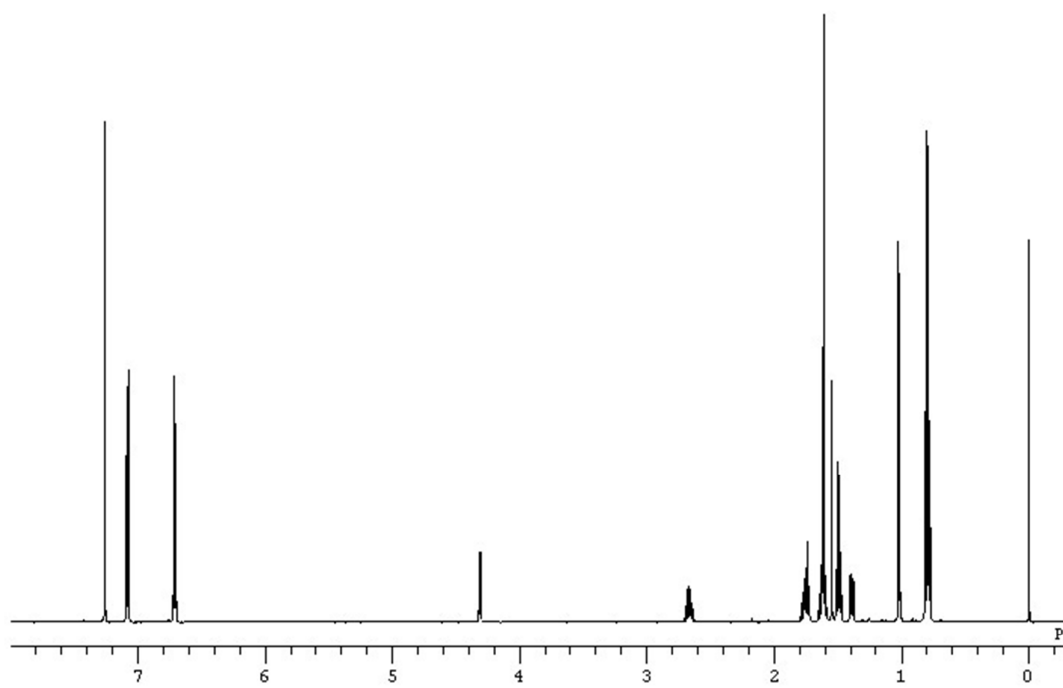
4,4'-(propane-2,2-diyl)bis((prop-1-en-1-yloxy)benzene) (**16**), mixture of diastereomers



1-(2,2-diethyl-4-methylcyclobutoxy)-4-(2-(4-(prop-1-en-1-yloxy)phenyl)propan-2-yl)benzene (**17**),
mixture of diastereomers



4,4'-(propane-2,2-diyl)bis((2,2-diethyl-4-methylcyclobutoxy)benzene) (**18**), one diastereomer



4,4'-(propane-2,2-diyl)bis((2,2-diethyl-4-methylcyclobutoxy)benzene) (**18**), mixture of other diastereomers

