Supporting Information

Alkynylation of Benzotriazole with Silylethynyliodonium Triflates. Regioselective Synthesis of 2-Ethynyl-2*H*-benzotriazole Derivatives

Tsugio Kitamura,* Mohammad Hasan Morshed, Satoru Tsukada, Yuki Miyazaki, Naomi Iguchi, and Daisuke Inoue

Department of Chemistry and Applied Chemistry, Graduate School of Science and Engineering, Saga University, Honjo-machi, Saga 840-8502, Japan

Contents

2-Trimethylsilylethynyl-2*H*-1,2,3-benzotriazole (**2a**): ^{1}H and ^{13}C NMR S2

1-Trimethylsilylethynyl-1*H*-1,2,3-benzotriazole (**3a**): ^{1}H and ^{13}C NMR S3

2-(*tert*-Butyldimethylsilylethynyl)-2*H*-1,2,3-benzotriazole (**2b**): ^{1}H and ^{13}C NMR S4

1-(*tert*-Butyldimethylsilylethynyl)-1*H*-1,2,3-benzotriazole (**3b**): ^{1}H and ^{13}C NMR S5

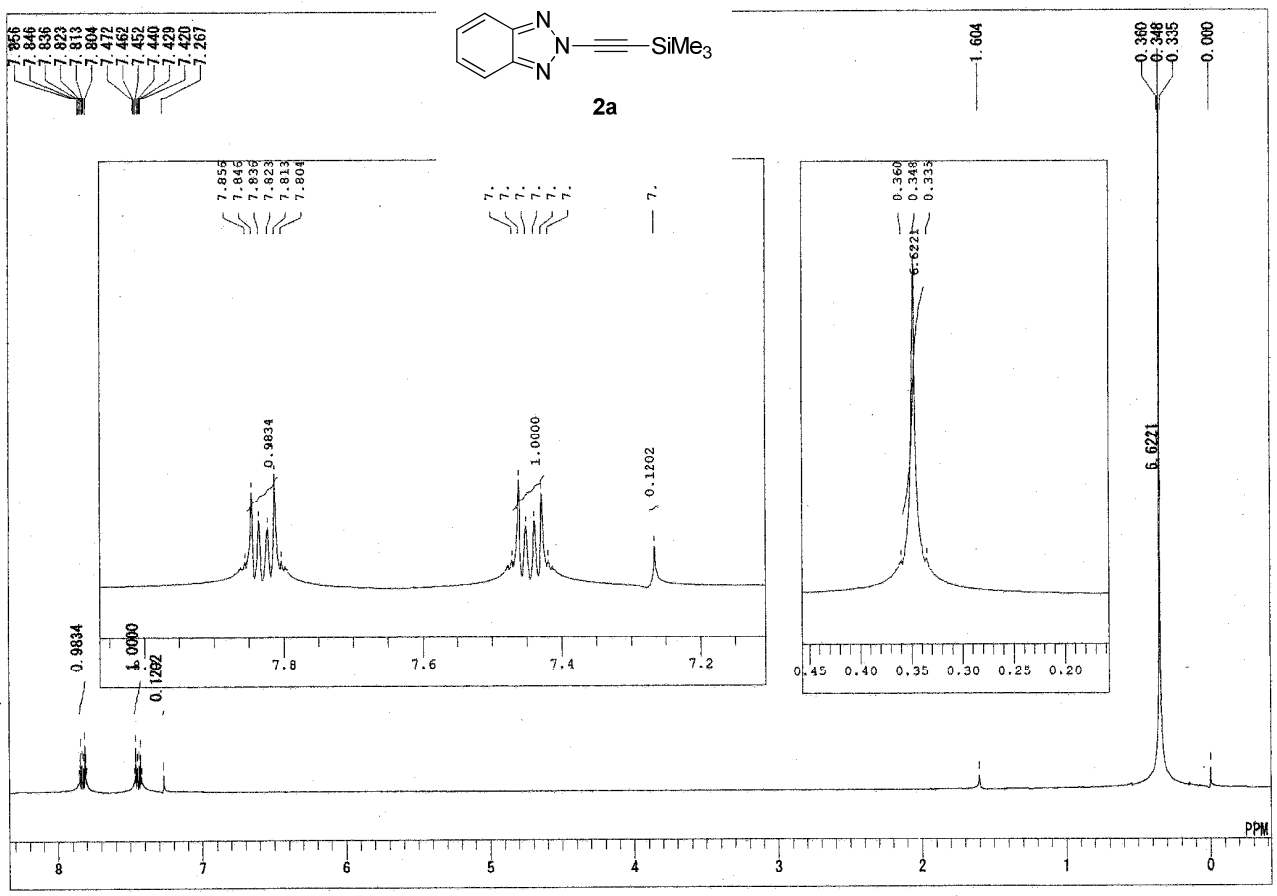
2-Ethynyl-2*H*-1,2,3-benzotriazole (**2c**): ^{1}H and ^{13}C NMR S6

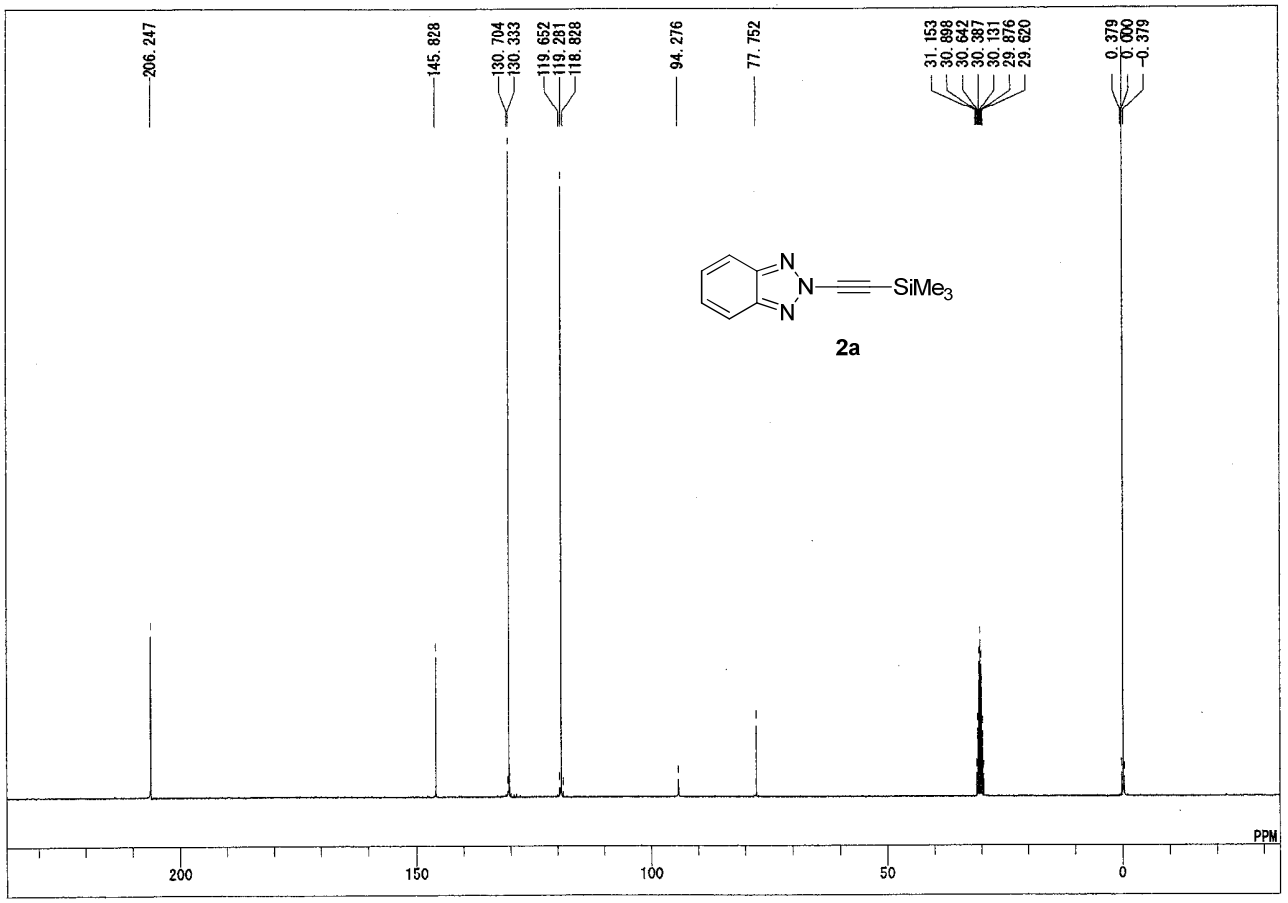
1-Ethynyl-1*H*-1,2,3-benzotriazole (**3c**): ^{1}H and ^{13}C NMR S7

tert-Butyldimethylsilylethynyl(phenyl)iodonium Triflate (**1b**): ^{1}H and ^{13}C NMR S8

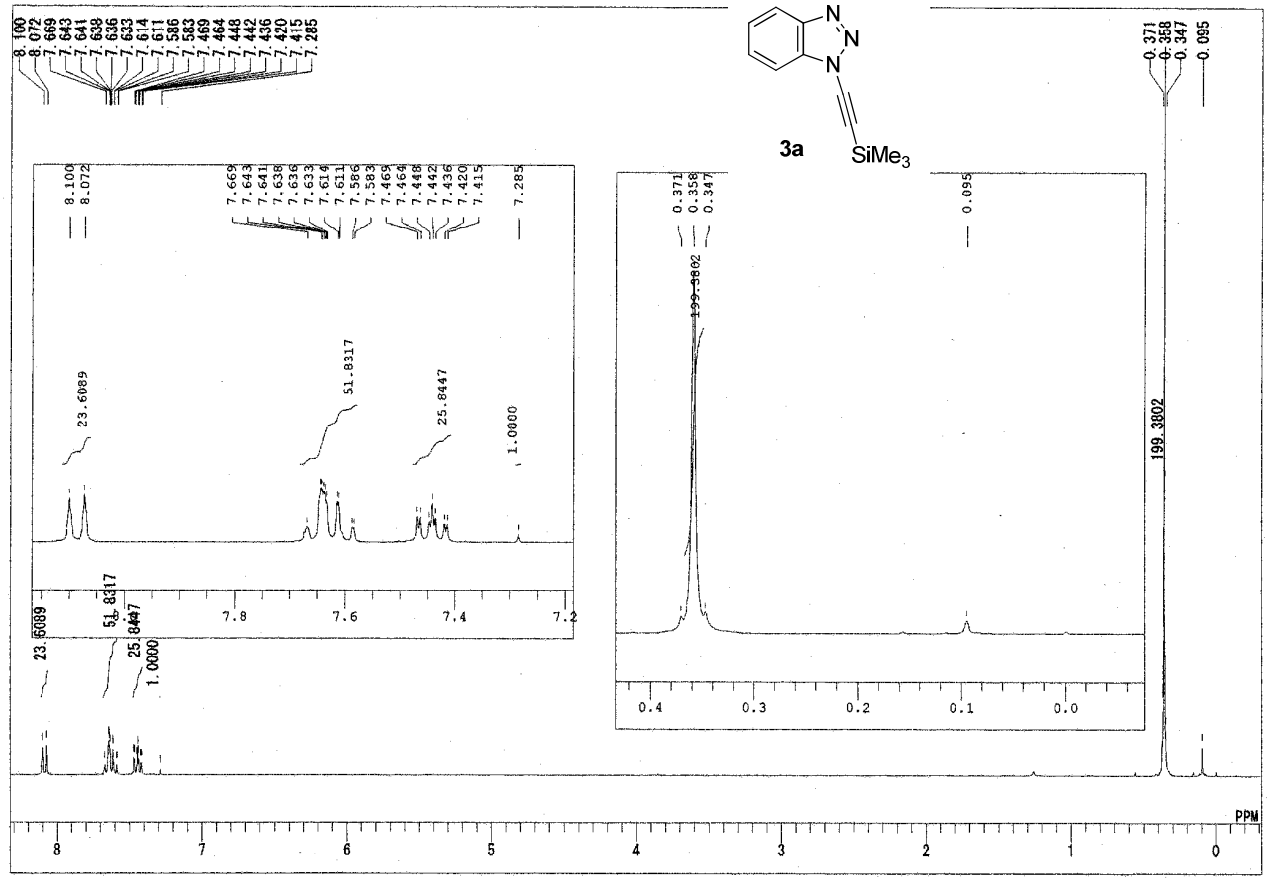
Ethynyl(phenyl)iodonium Triflate (**1c**): ^{1}H and ^{13}C NMR S9

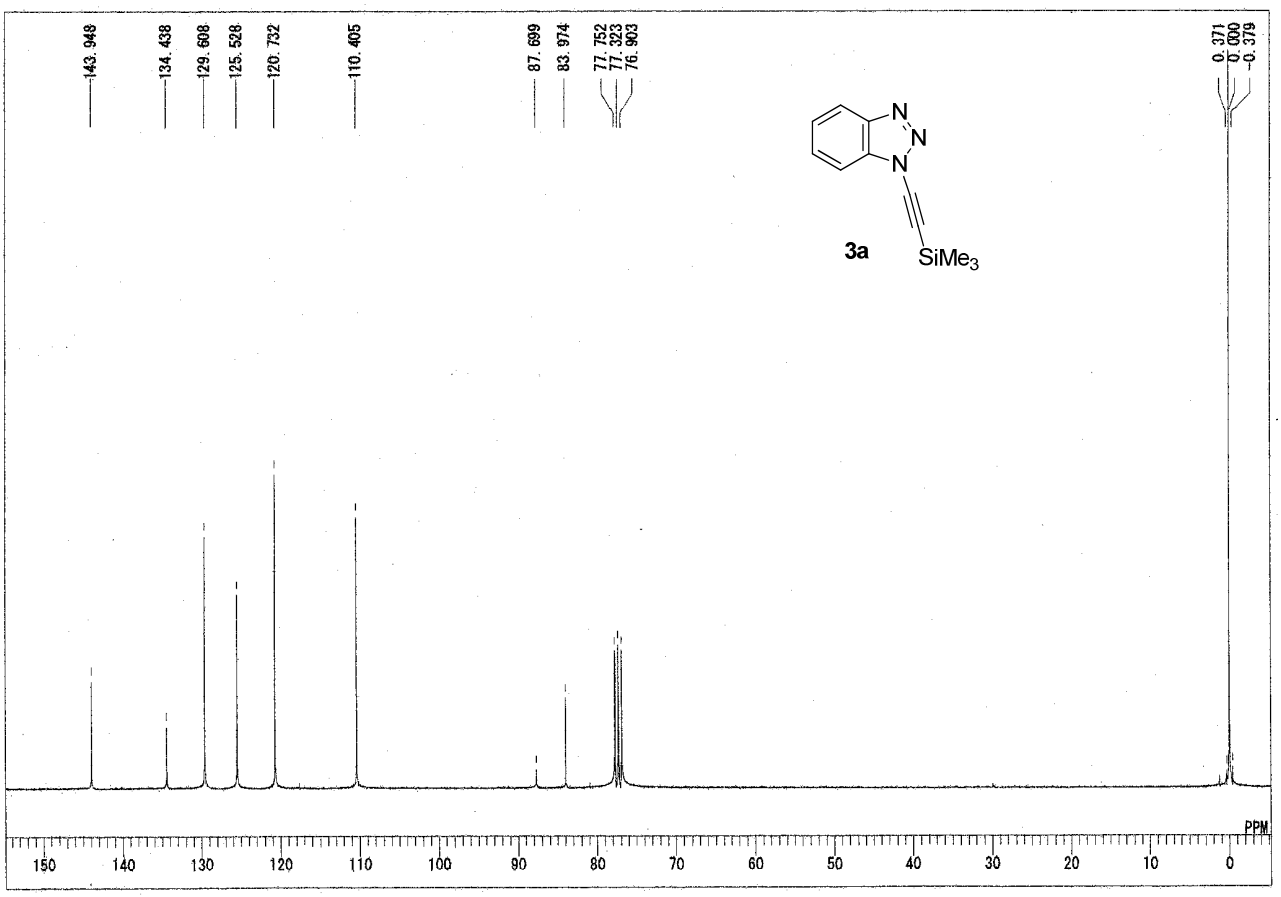
2-Trimethylsilylethynyl-2*H*-1,2,3-benzotriazole (2a): ^{1}H and ^{13}C NMR



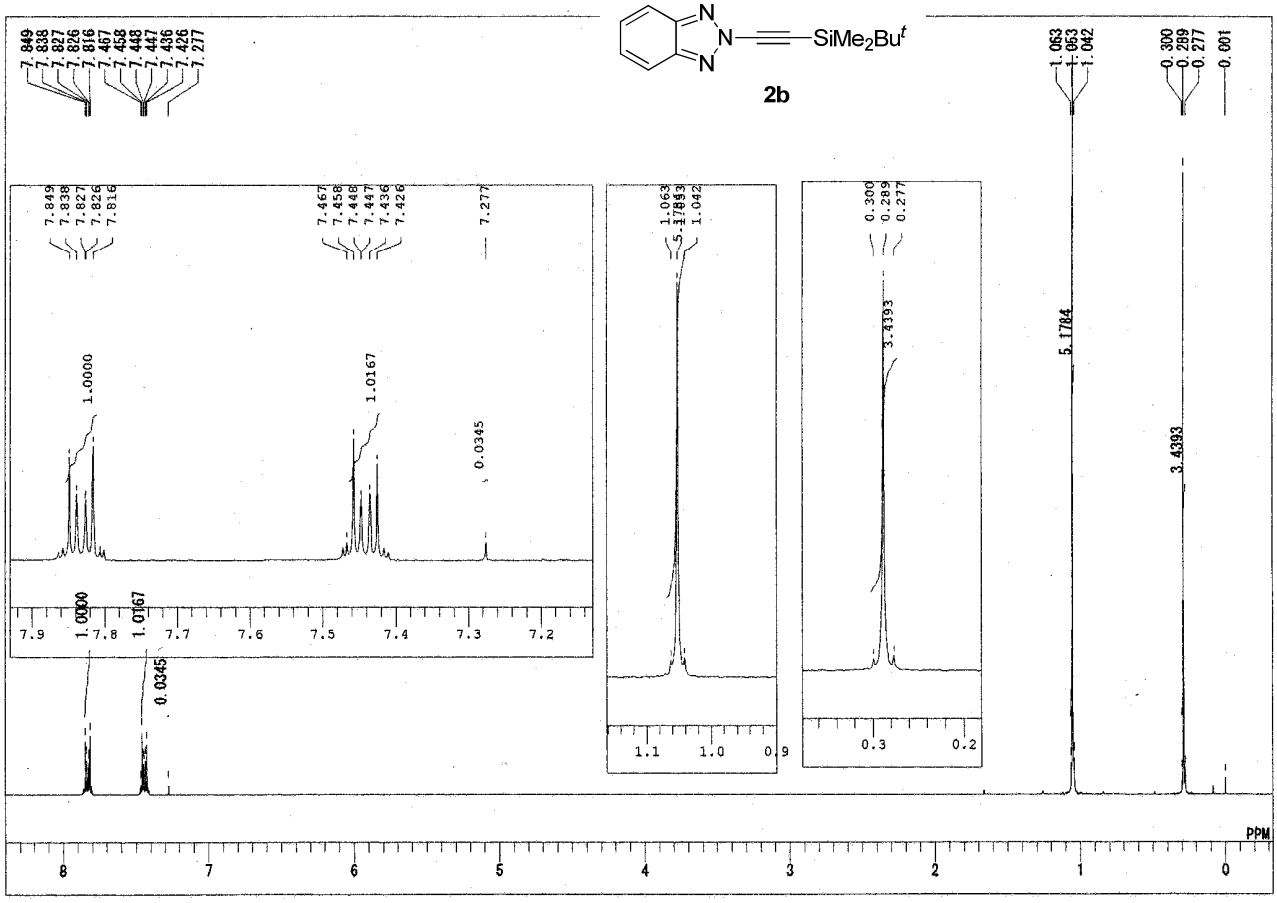


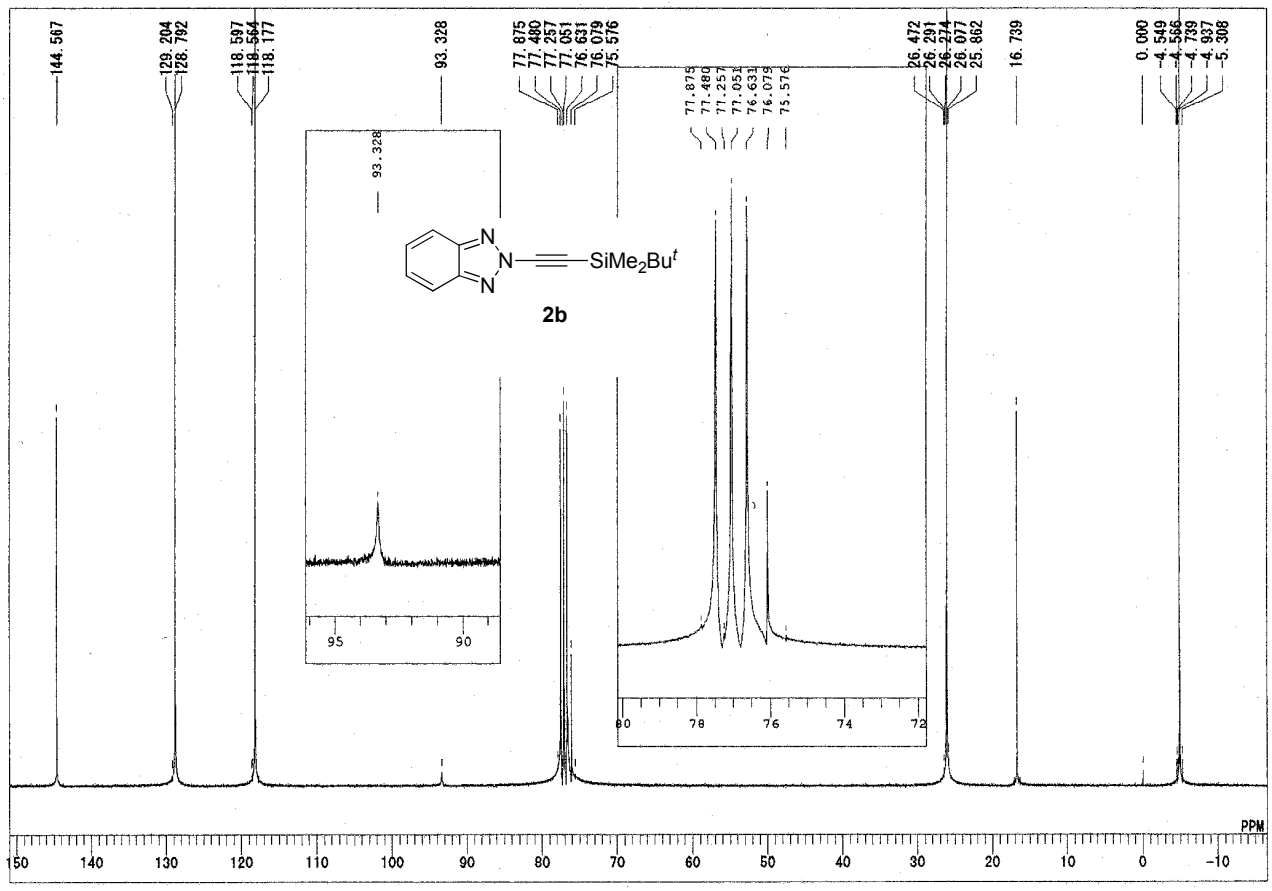
1-Trimethylsilylethynyl-1*H*-1,2,3-benzotriazole (3a): ^{1}H and ^{13}C NMR



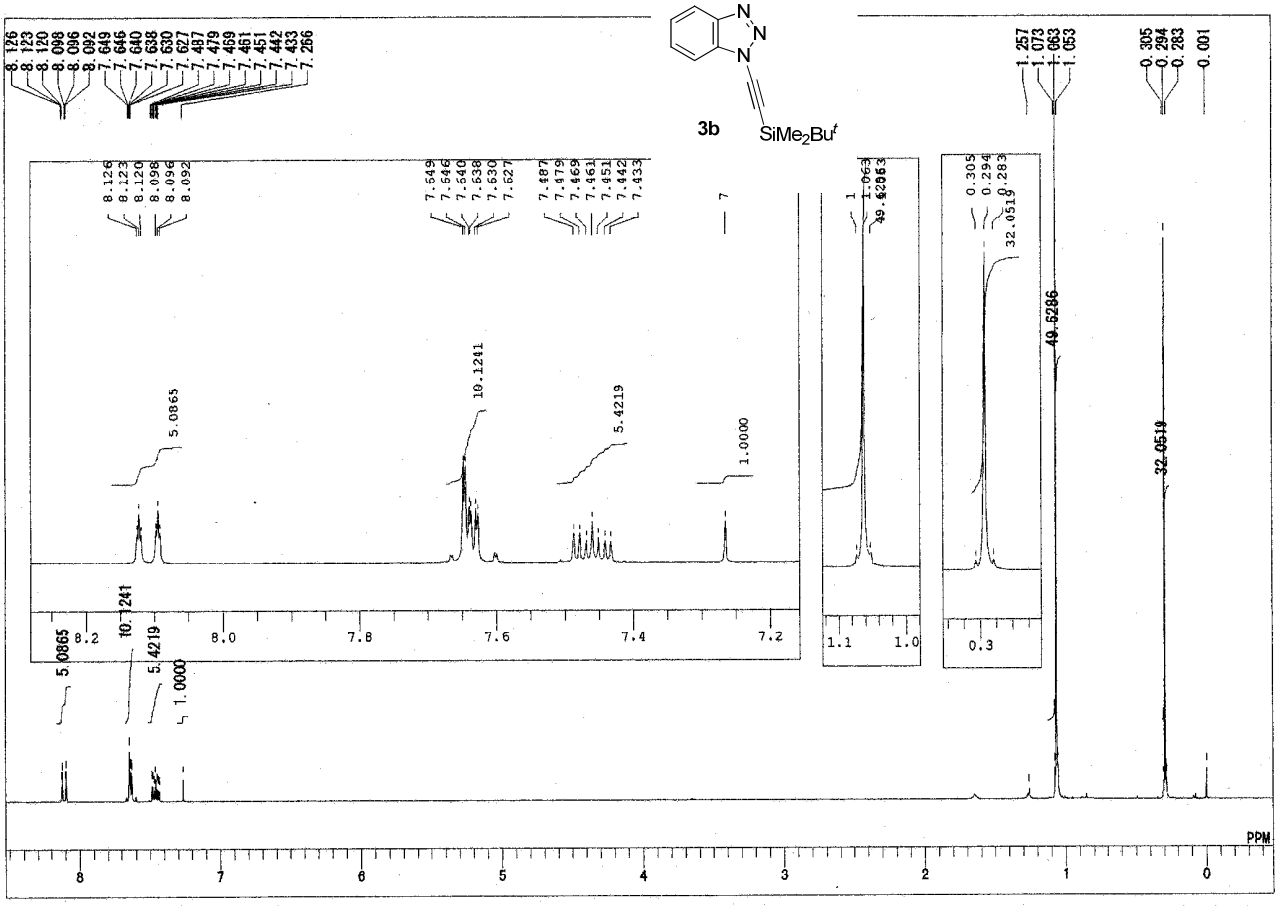


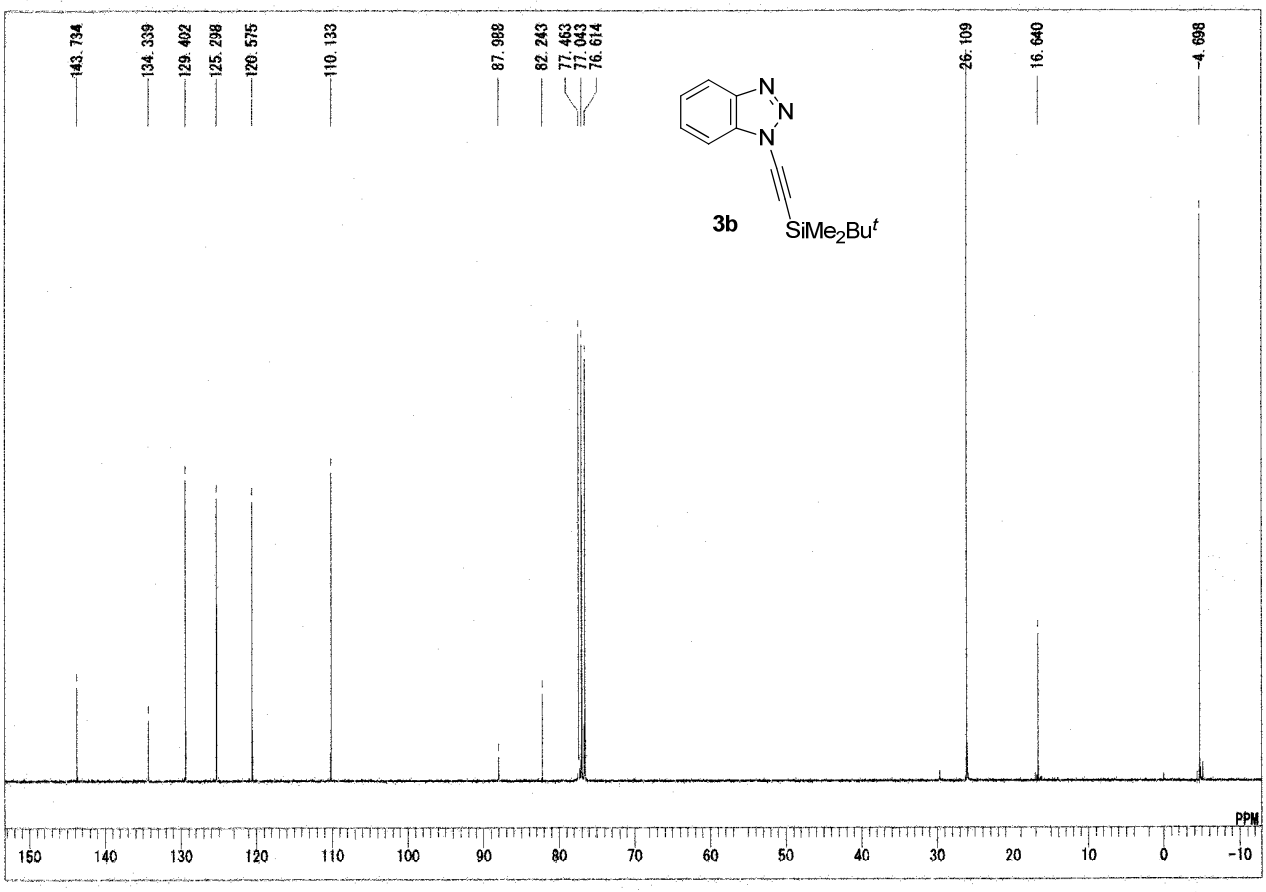
2-(*tert*-Butyldimethylsilylethynyl)-2*H*-1,2,3-benzotriazole (2b): ^{1}H and ^{13}C NMR



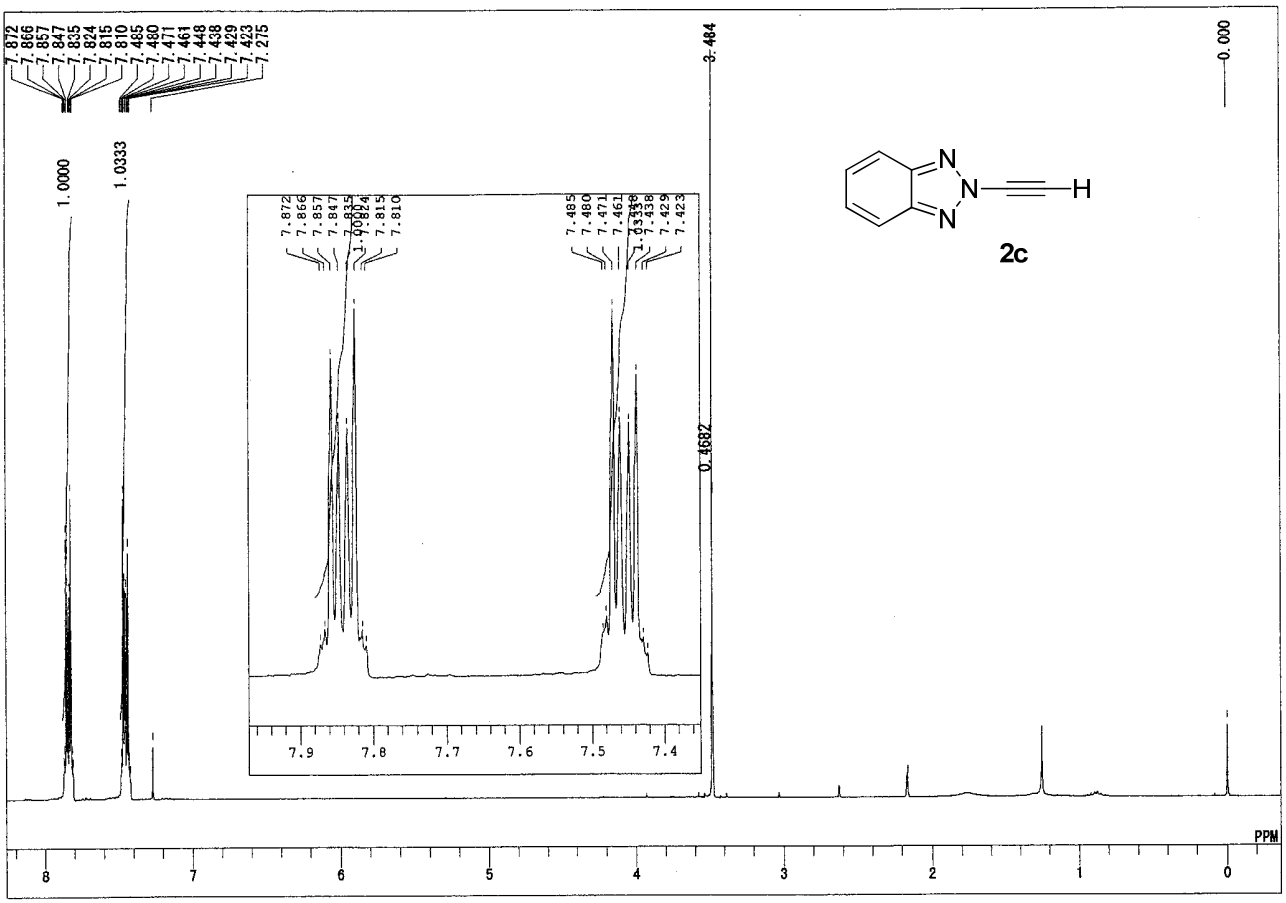


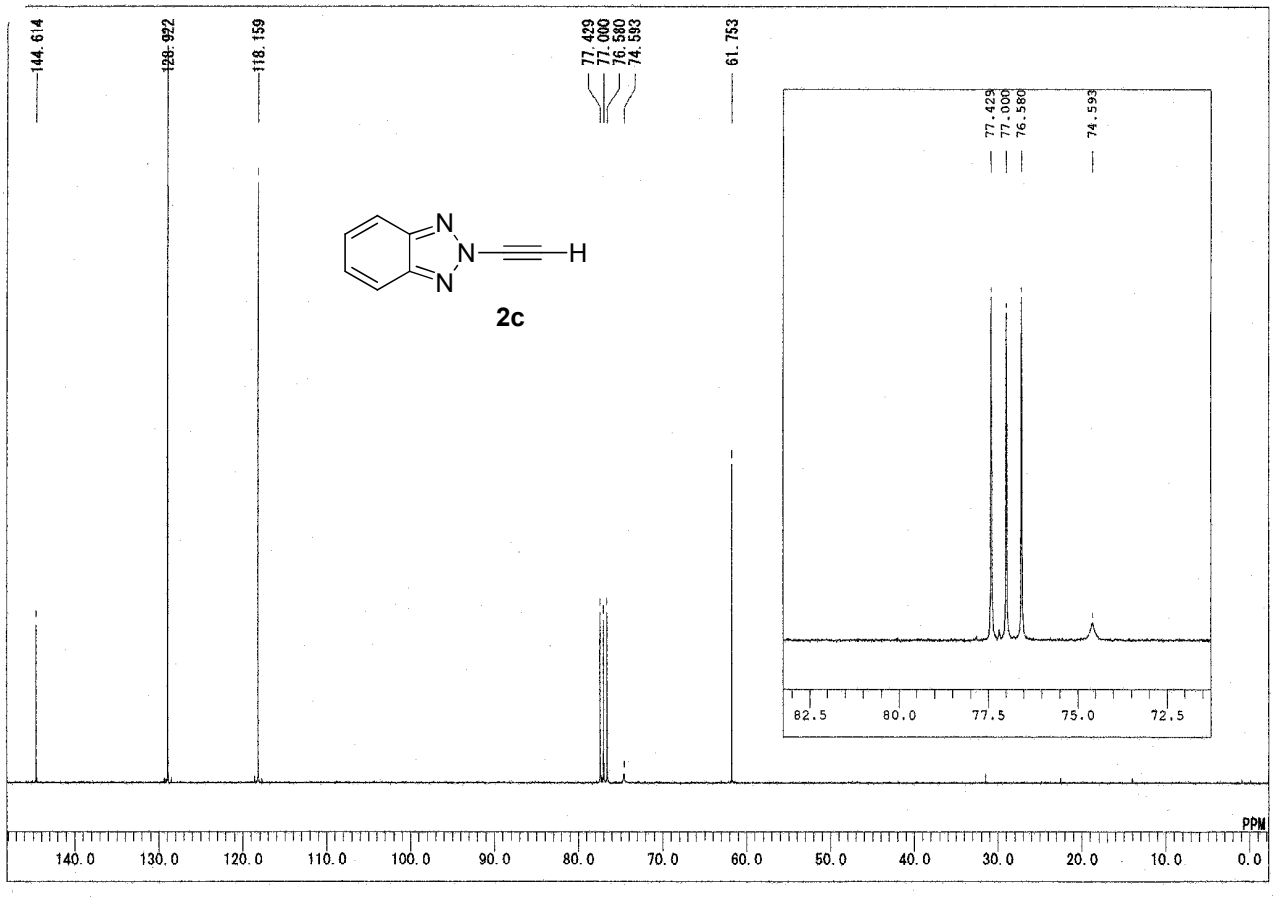
1-(*tert*-Butyldimethylsilylethynyl)-1*H*-1,2,3-benzotriazole (3b): ^{1}H and ^{13}C NMR



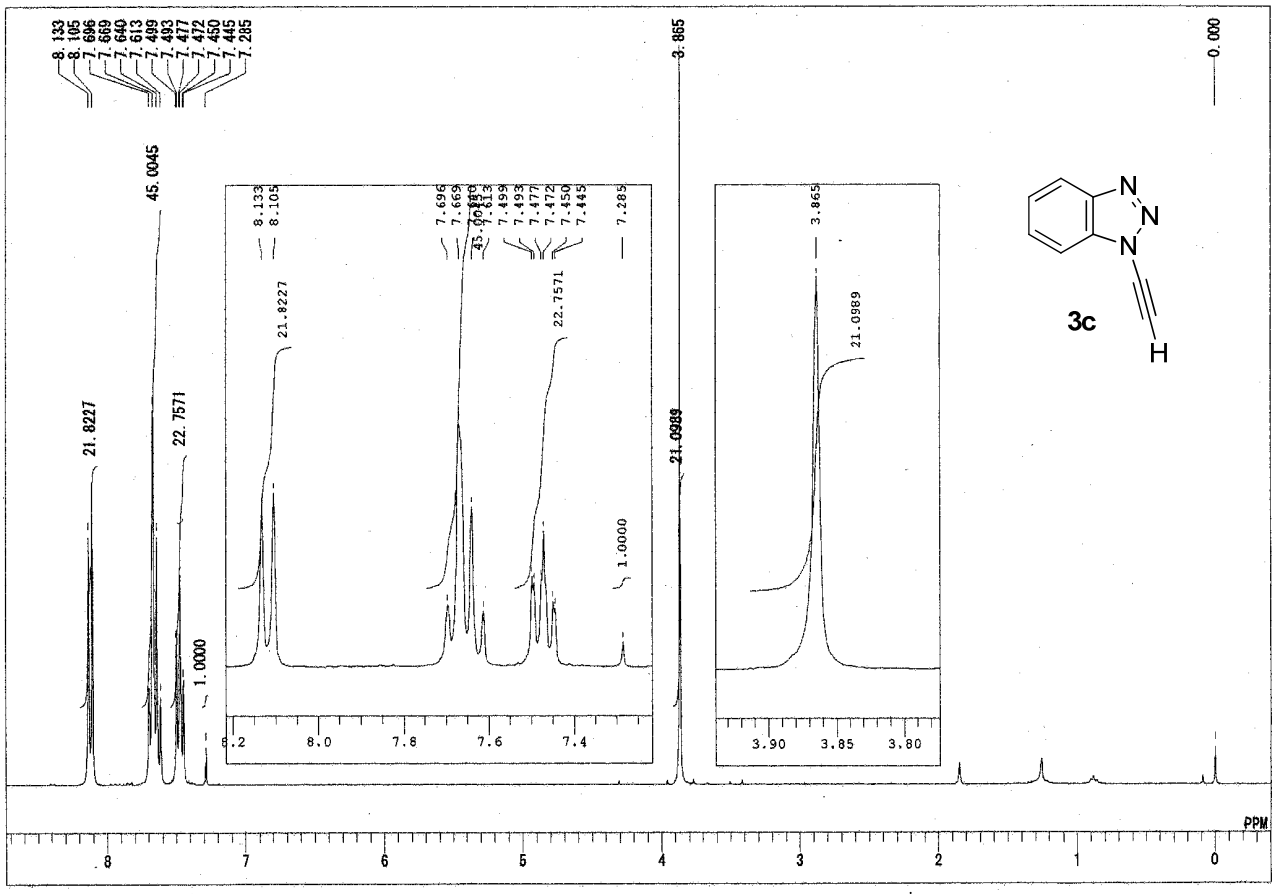


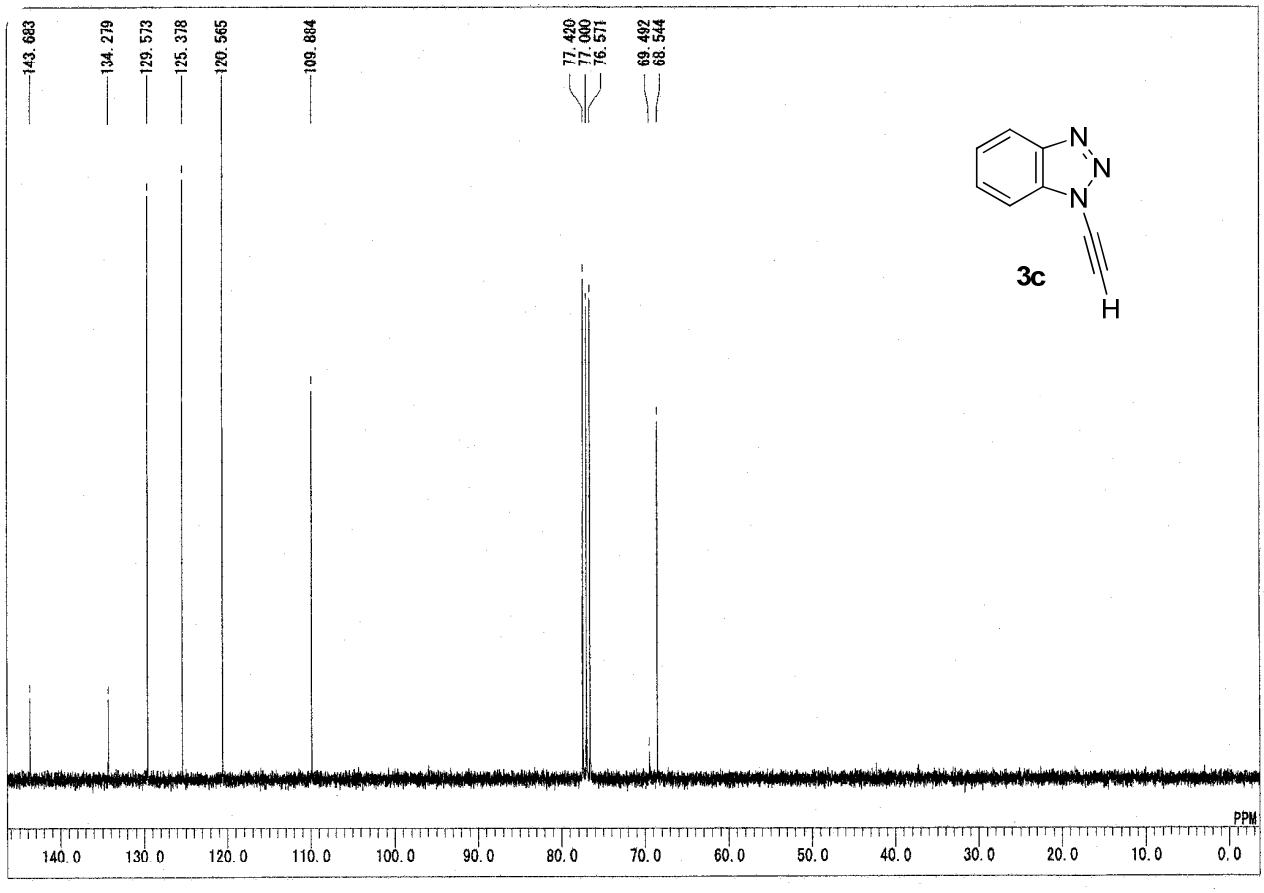
2-Ethynyl-2*H*-1,2,3-benzotriazole (2c): ^{1}H and ^{13}C NMR



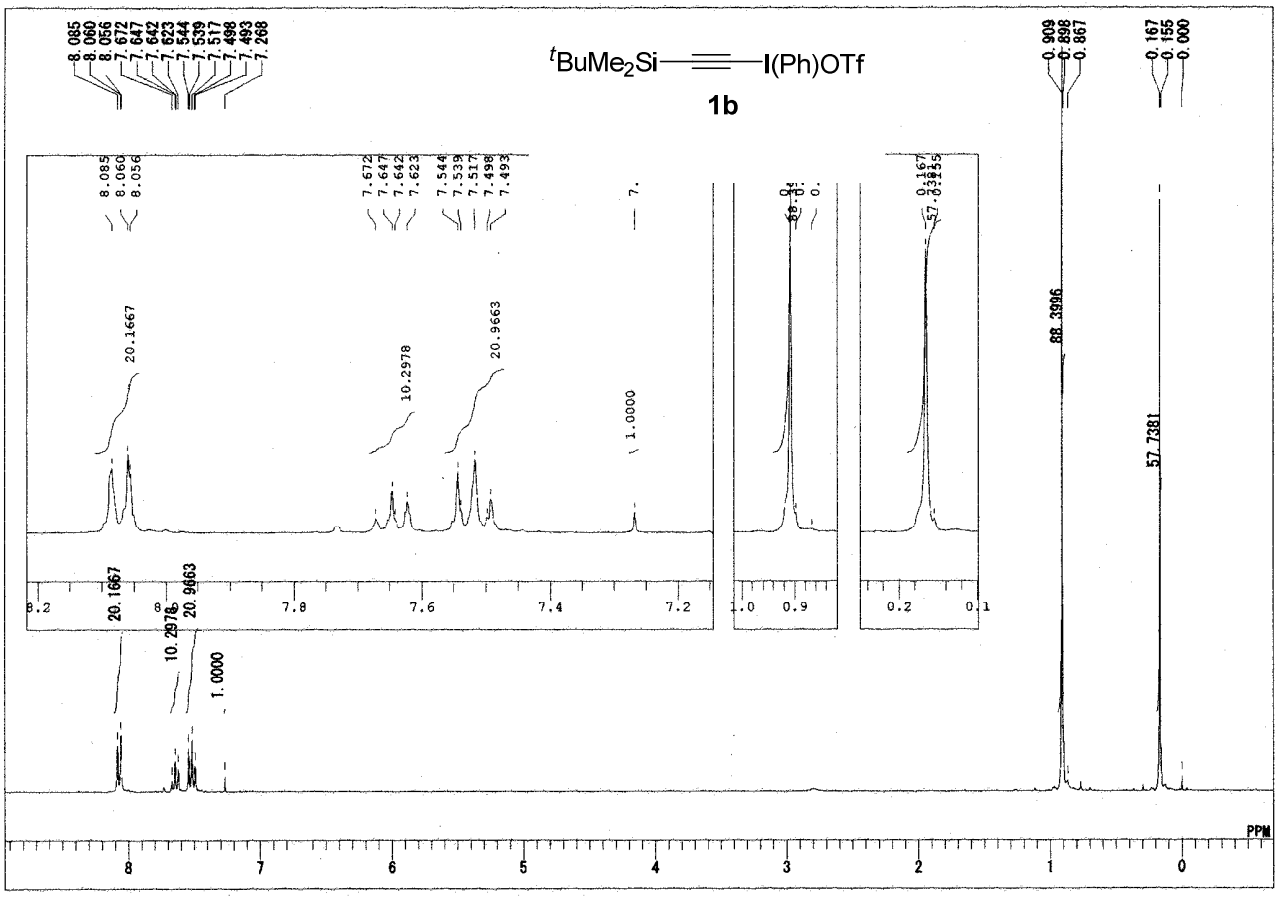


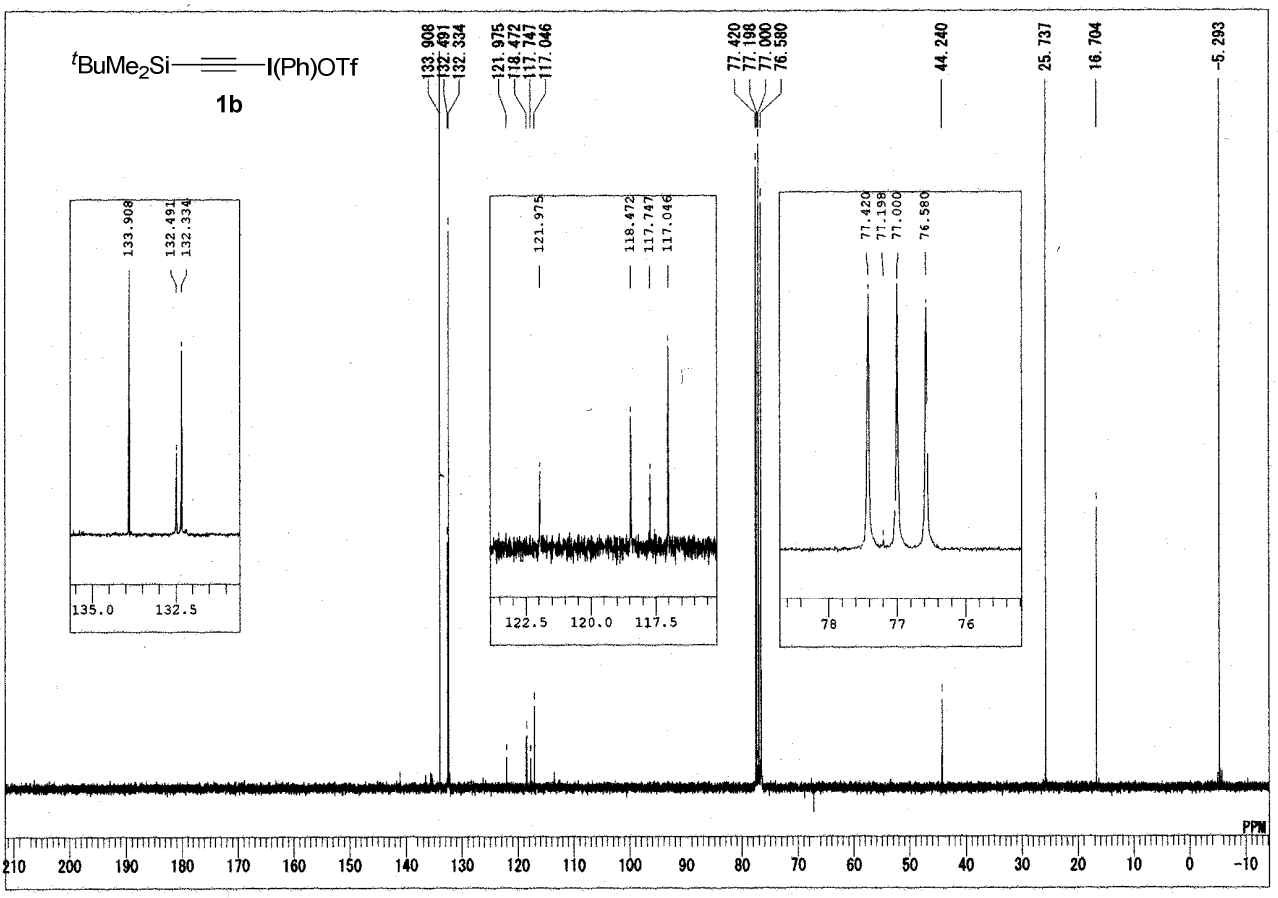
1-Ethynyl-1*H*-1,2,3-benzotriazole (3c): ^{1}H and ^{13}C NMR





tert-Butyldimethylsilylethynyl(phenyl)iodonium Triflate (1b): ^{1}H and ^{13}C NMR





Ethynyl(phenyl)iodonium Triflate (1c): ^{1}H and ^{13}C NMR

