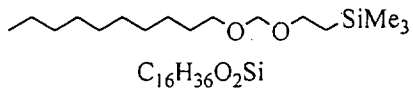
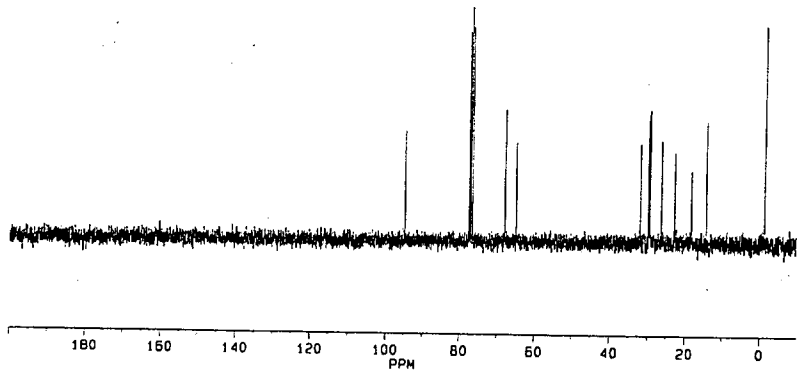
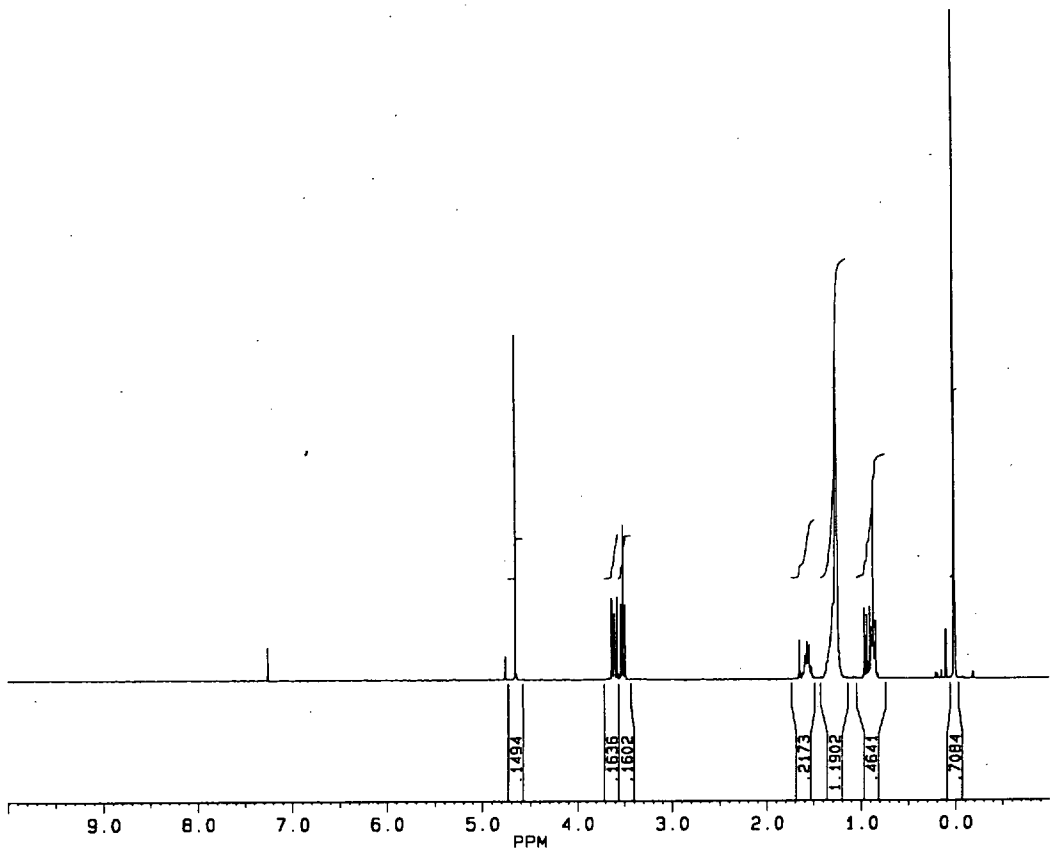
REVISED

Decyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 1): ^{1}H-NMR: δ 0.00(9H, s), 0.87(3H, t, J=7.0), 0.94(2H, t, J=8.6), 1.26-1.29(16H, m), 1.55-1.60(2H, m), 3.52(2H, t, J =6.6), 3.61(2H, t, J=8.6), 4.66(2H, s). ^{13}C-NMR: δ -1.4, 14.1, 18.1, 22.7, 26.2, 29.3, 29.4, 29.5, 29.6, 29.8, 31.9, 64.9, 67.9, 94.8. This substance has been previously reported: Vakalopoulos, A.; Hoffmann, H. M. R. *Org. Lett.* **2000**, 1447.

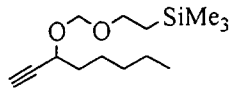


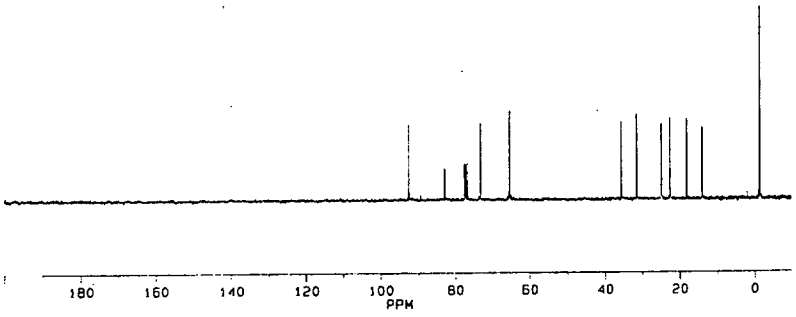
$C_{16}H_{36}O_2Si$

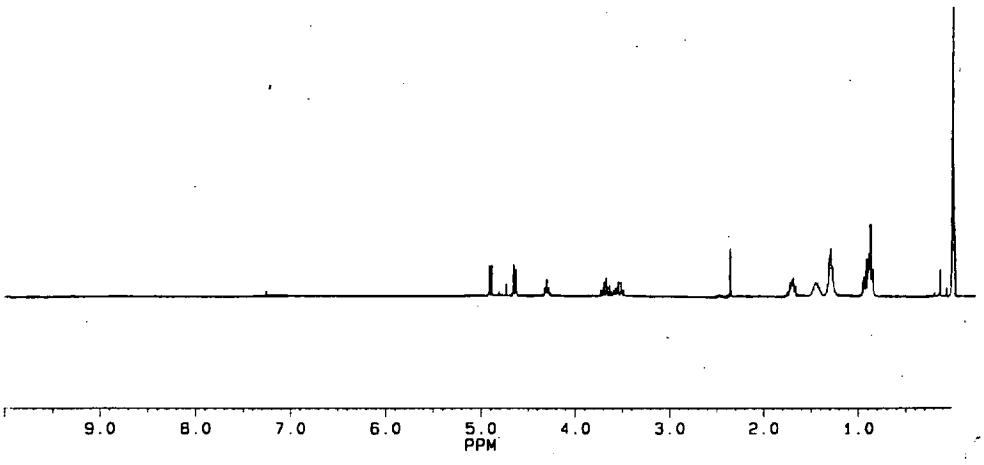




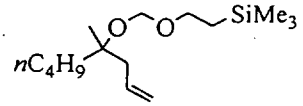
1-Octyn-3-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 2): ^{1}H-NMR: δ 0.03(9H, s), 0.87(3H, t, J=7.0), 0.88-0.94(2H, m), 1.27-1.31(4H, m), 1.40-1.52(2H, m), 1.68-1.22(2H, m), 2.35(1H,s), 3.54(1H, m), 3.67(1H, m), 4.30(1H, t, J=6.5), 4.64(1H, d, J=6.9), 4.91(1H, d, J=6.9). ^{13}C-NMR: δ -1.5, 13.9, 18.0, 22.5, 24.9, 31.4, 35.6, 65.2, 65.3, 73.1, 82.8, 92.4.

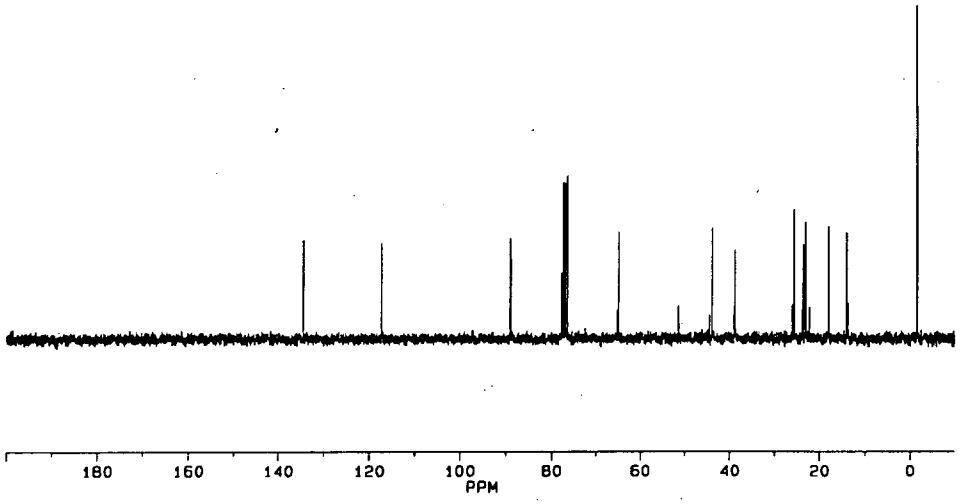


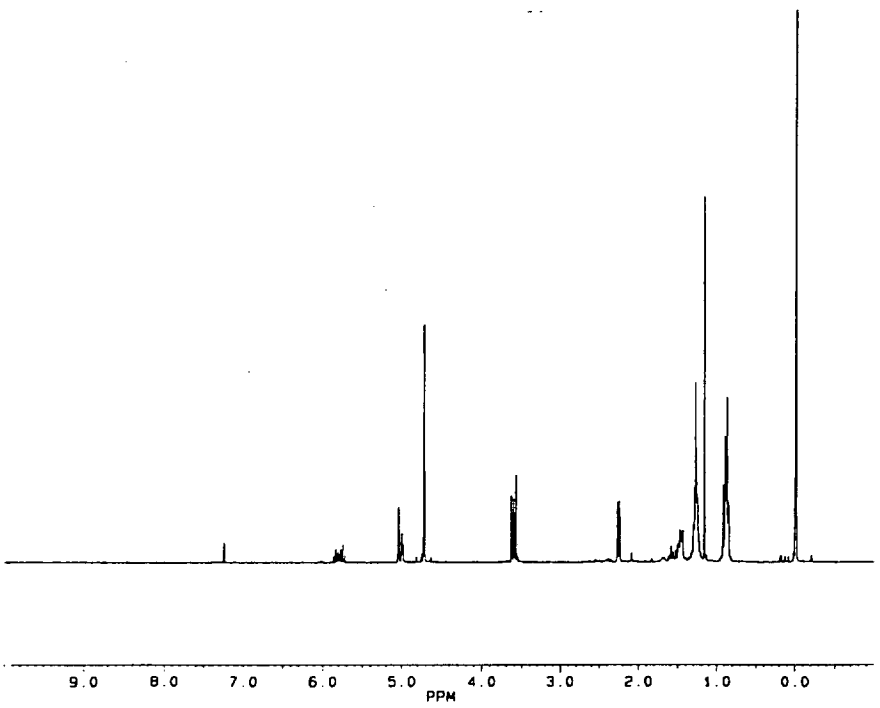




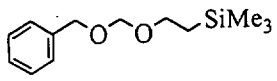
4-Methyl-5-β-(trimethylsilyl)ethoxymethyl-1-octene (Table 1, Entry 3): ^{1}H-NMR: δ 0.00(9H, s), 0.87-0.93(2H, m), 0.88(3H, t, J=7.0), 1.17(3H, s), 1.26-1.33(4H, m), 1.45-1.54(2H, m), 2.27(2H, d, J=7.2), 3.61(2H, t, J=8.5), 4.75(2H, s), 5.03(2H, brd, J=14), 5.80(1H, m). ^{13}C-NMR: δ-1.4,14.1, 18.1, 23.1, 23.7, 25.7, 38.9, 44.0, 65.0, 77.8, 89.0, 117.3, 134.5. This substance has been previously reported: Lipshutz, B. M.; Miller, T. A. *Tetrahedron Lett.* **1989**, 30, 7149.

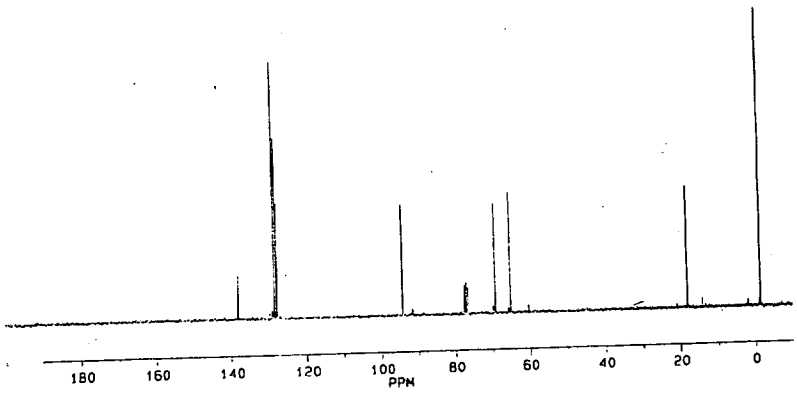


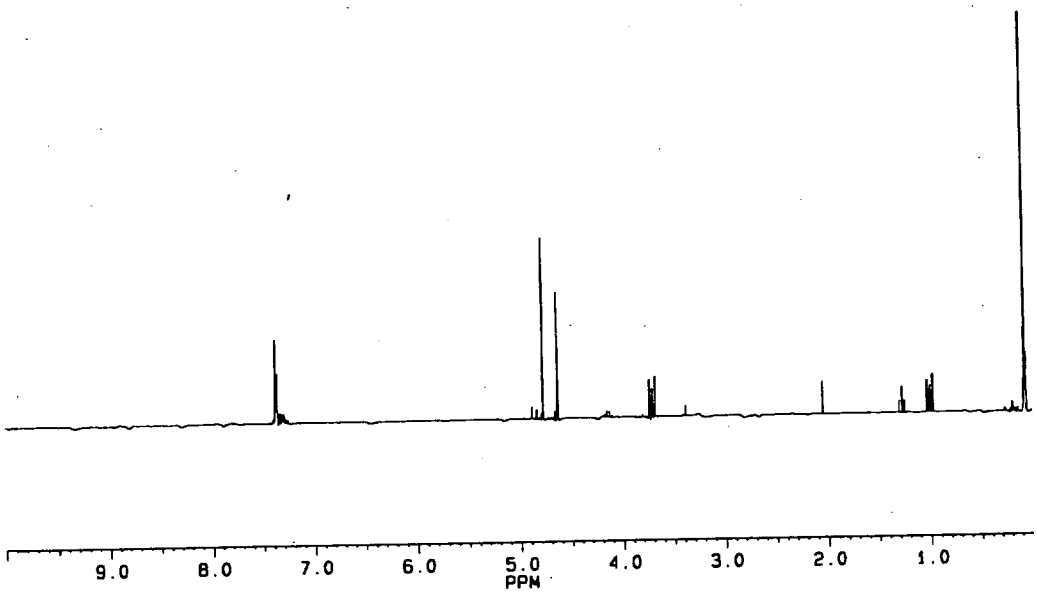




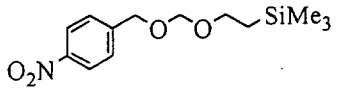
Benzyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 4a): ^{1}H-NMR: δ 0.02(9H, s), 0.95(2H, t, J=8.5), 3.66(2H, t, J=8.5), 4.59(2H, s) 4.73(2H, s), 7.26-7.38(5H, m). ^{13}C-NMR: δ -1.5, 18.0, 65.1, 69.2, 94.0, 127.5, 127.8, 128.3, 138.0.

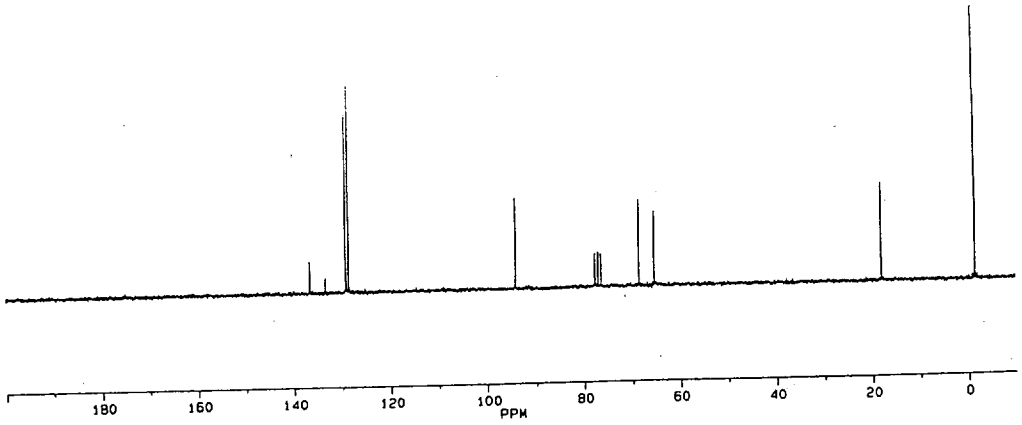


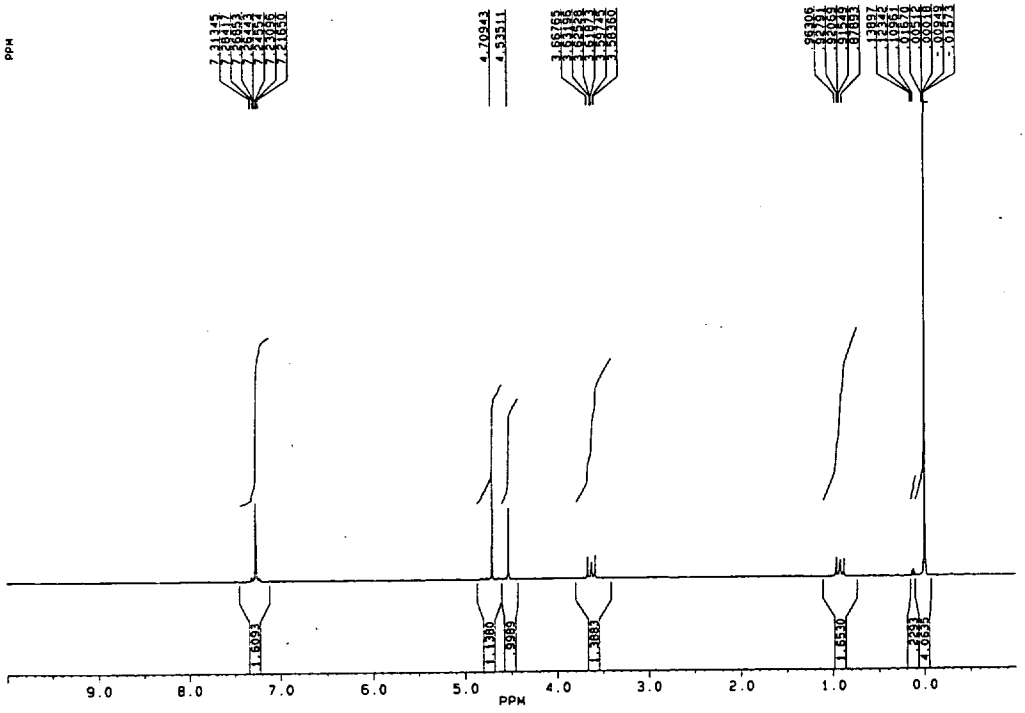




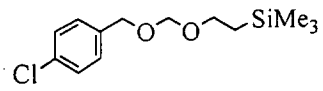
4-Nitrobenzyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 4b): ^{1}H-NMR: δ 0.02(9H, s), 0.92(2H, t, J=8.4), 3.64(2H, t, J=8.4), 4.68(2H, s) 4.75(2H, s), 7.48(2H, d, J=8.6) , 8.16(2H, d, J=8.6). ^{13}C-NMR: δ -1.4, 18.0, 65.4, 68.0, 94.5, 123.4, 127.7, 145.8, 147.2.

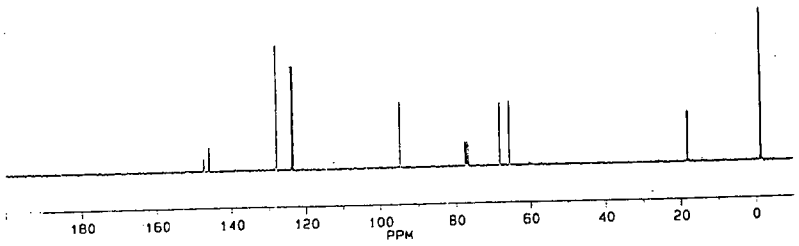


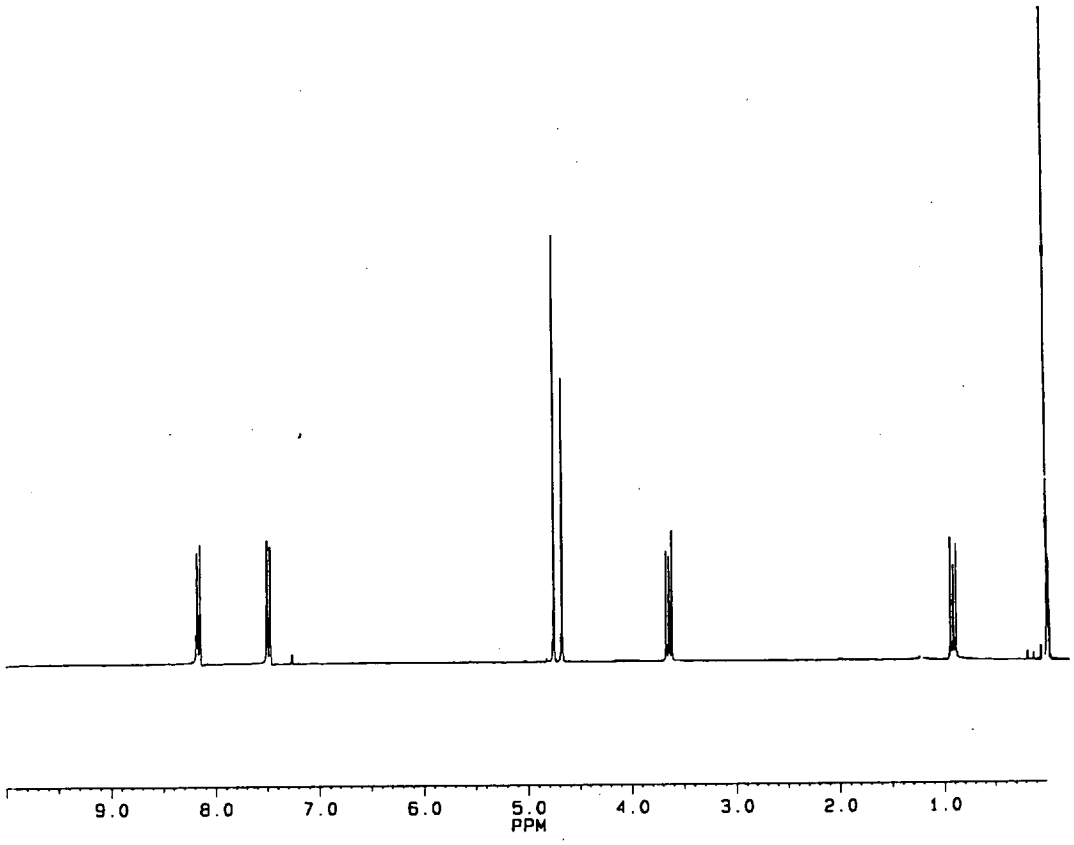




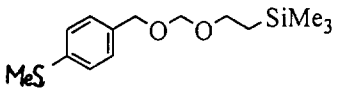
4-Chlorobenzyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 4c): ^{1}H-NMR: δ 0.00(9H, s), 0.92(2H, t, J=8.4), 3.62(2H, t, J=8.4), 4.54(2H, s) 4.71(2H, s), 7.22-7.31(4H, m). ^{13}C-NMR: δ-1.5, 18.0, 65.2, 68.4, 94.1, 128.4, 129.1, 133.3, 136.7.

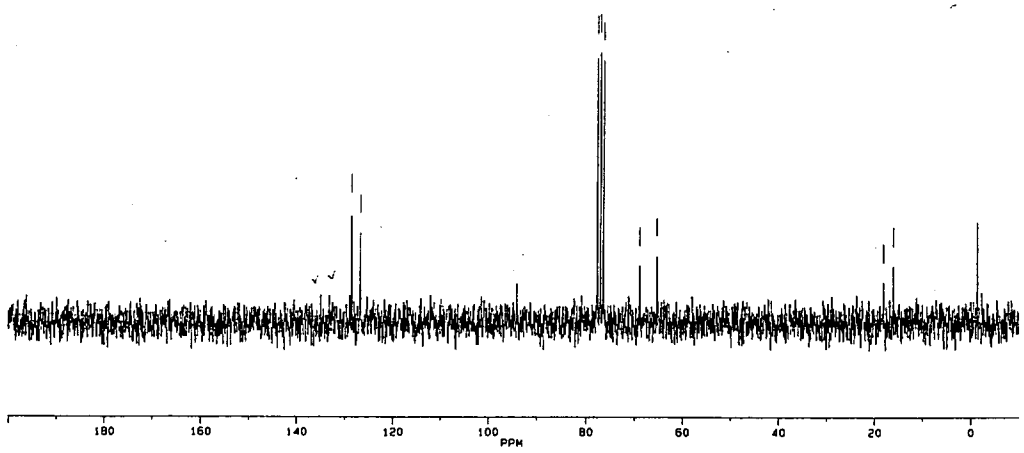


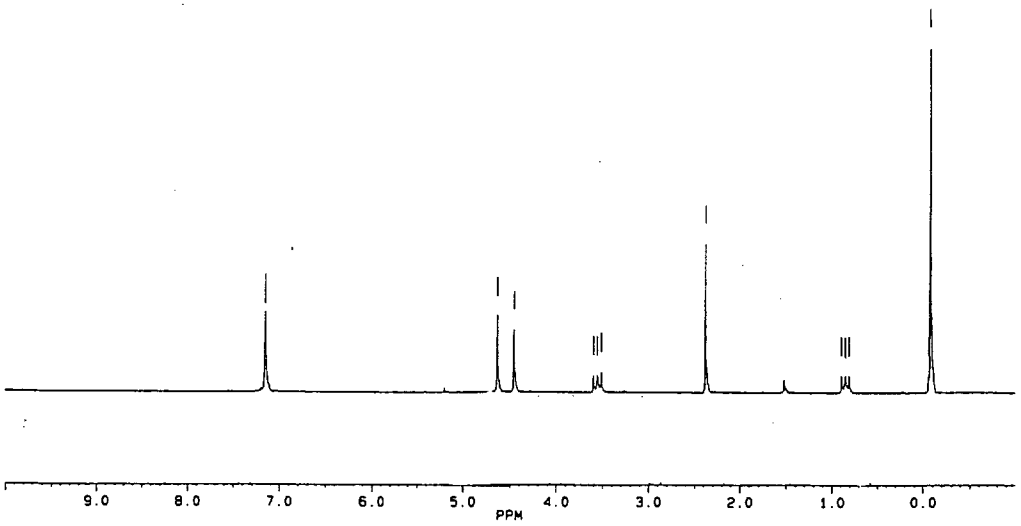




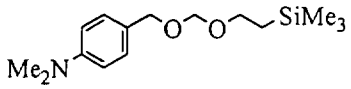
4–(Methylthio)benzyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 4d): ^{1}H-NMR: δ 0.00(9H, s), 0.85(2H, t, J=8.4), 2.38(3H, s), 3.56(2H, t, J=8.4), 4.46(2H, s) 4.64(2H, s), 7.15-7.17(4H, m). ^{13}C-NMR: δ-1.4, 16.0, 18.1, 65.2, 68.8, 94.5, 126.7, 128.5, 133.0, 135.0.

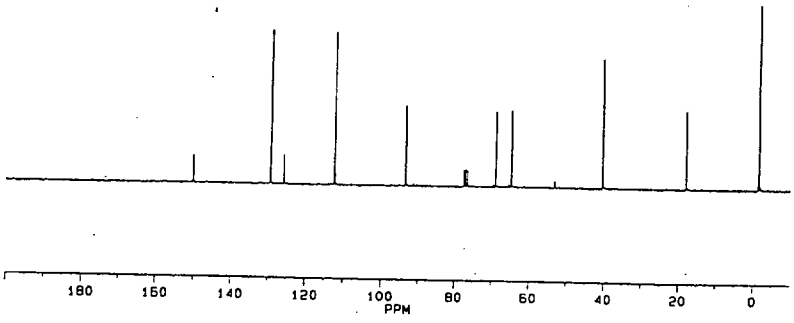


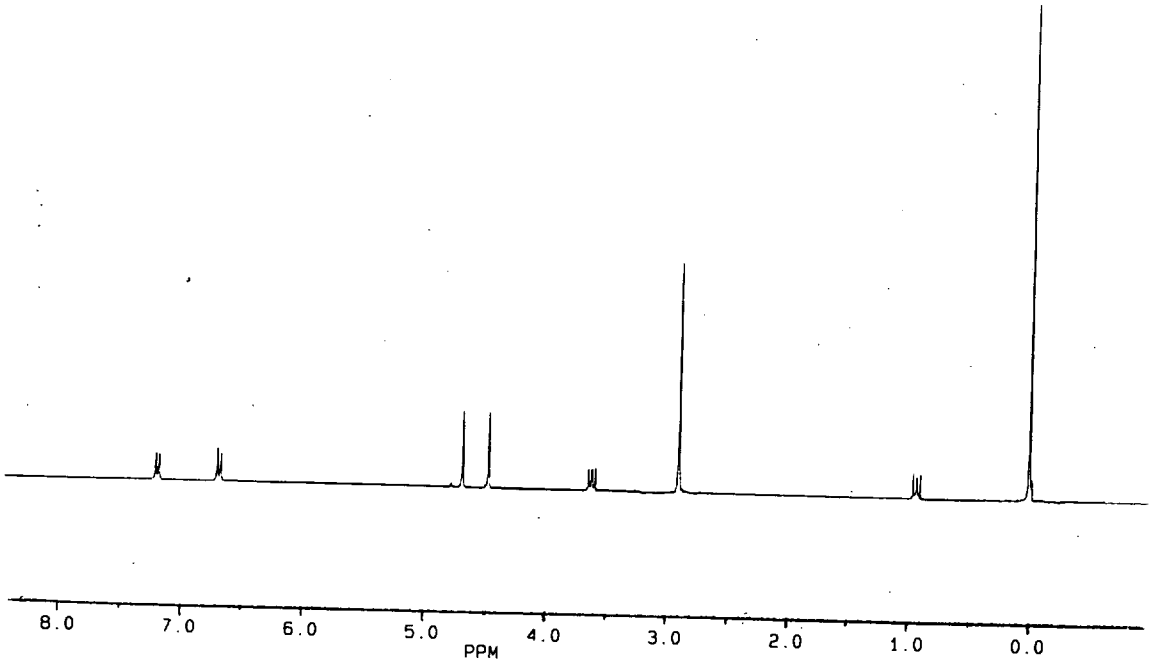




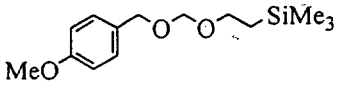
4-(N,N–Dimethylamino)benzyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 4e): ^{1}H-NMR: δ 0.00(9H, s), 0.94(2H, t, J=8.4), 2.90(6H, s), 3.63(2H, t, J=8.4), 4.47(2H, s) 4.69(2H, d, J=14), 6.68(2H, d, J=9) , 7.20(2H, d, J=9). ^{13}C-NMR: δ -1.5, 18.0, 40.6, 65.0, 68.2, 94.0, 112.6, 128.4, 129.0, 150.1.

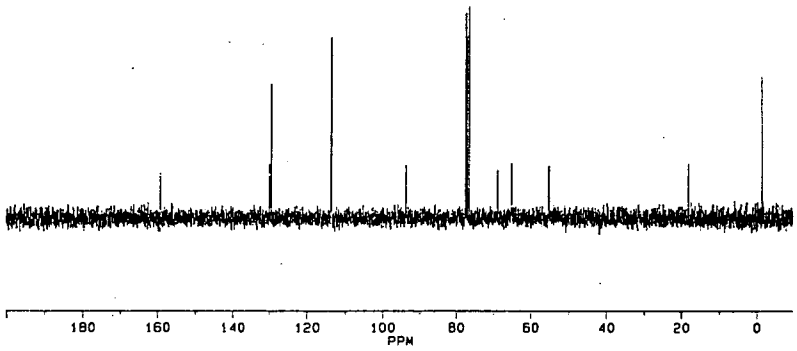


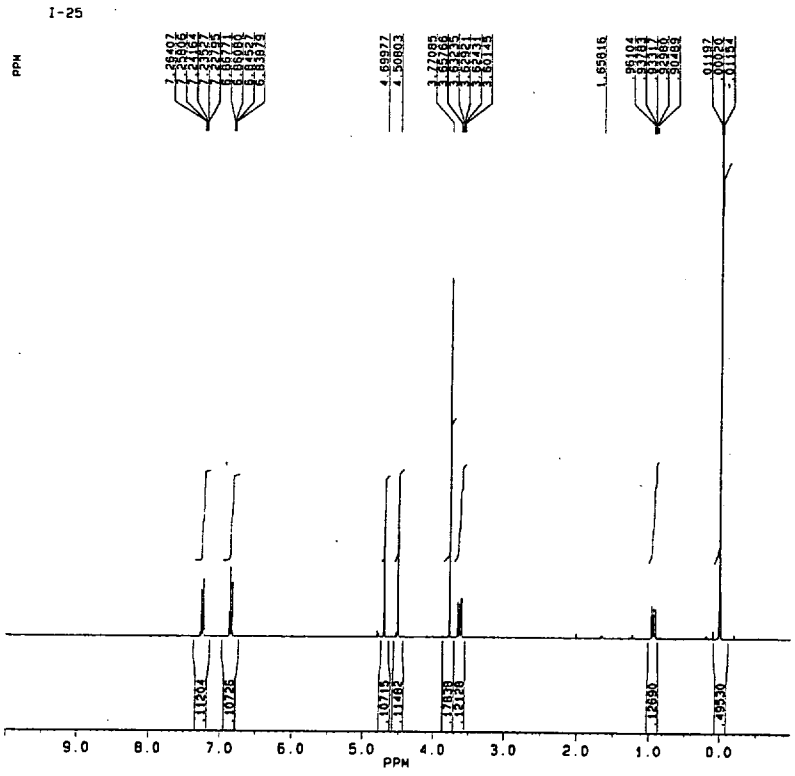




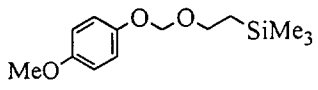
4–Methoxybenzyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 4f): ^{1}H-NMR: δ 0.00(9H, s), 0.93(2H, t, J=8.4), 3.62(2H, t, J=8.4), 3.77(3H, s), 4.51(2H, s) 4.70(2H, d, J=14), 6.85(2H, d, J=11) ,7.24(2H, d, J=11). ^{13}C-NMR: δ-1.5, 18.0, 55.2, 65.1, 68.3, 93.8, 113.7, 129.5, 130.0, 159.1

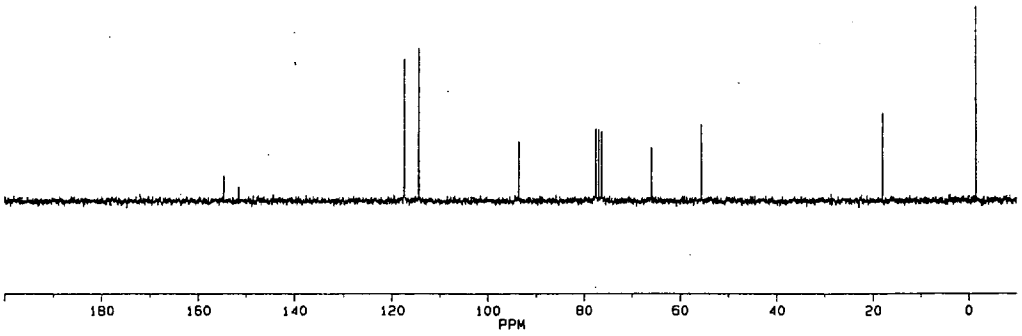


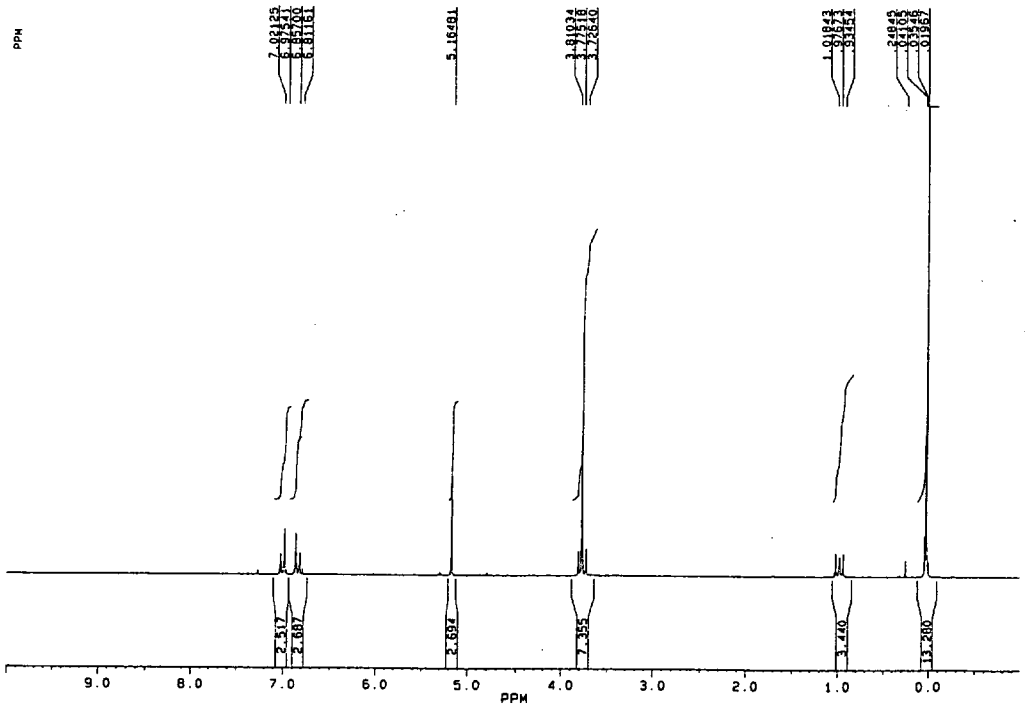




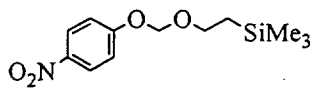
4-Methoxyphenyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 5a): ^{1}H-NMR: δ 0.02(9H, s), 0.98(2H, t, J=8.4), 3.28(3H, s), 3.28(2H, t, J=8.4), 5.16(2H, s) 6.83(2H, d, J=14), 7.00(2H, d, J=14). ^{13}C-NMR: δ -1.5, 18.0, 55.6, 66.0, 93.7, 114.5, 117.4, 151.5, 154.5.

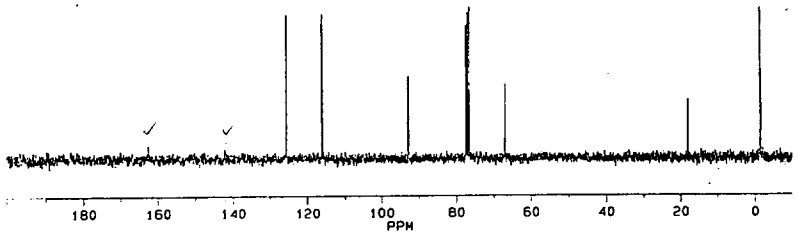


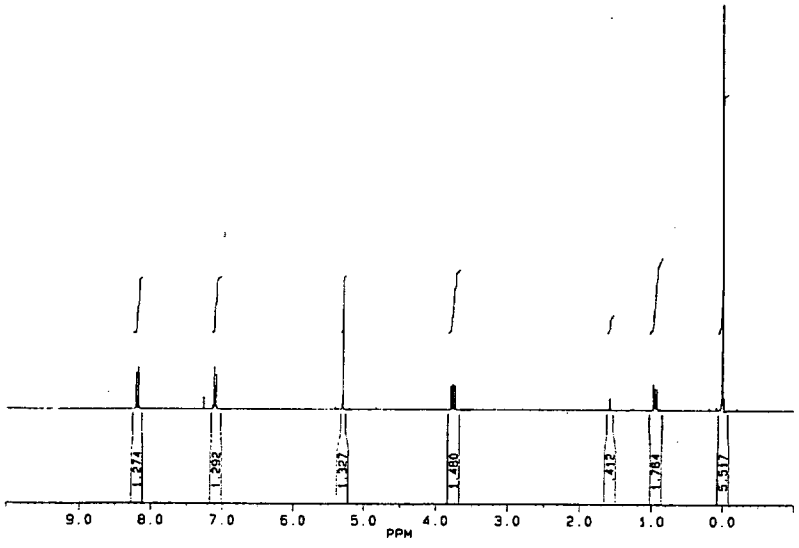




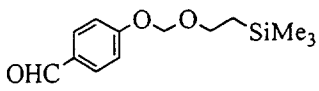
4-Nitrophenyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 5b): ^{1}H-NMR: δ 0.00(9H, s), 0.94(2H, t, J=8.3), 3.76(2H, t, J=8.3), 5.30(2H, s), 7.10(2H, d, J=8.6) , 8.18(2H, d, J=8.6). ^{13}C-NMR: δ-1.4, 18.0, 67.0, 92.8, 116.0, 125.7, 143.0, 163.0.

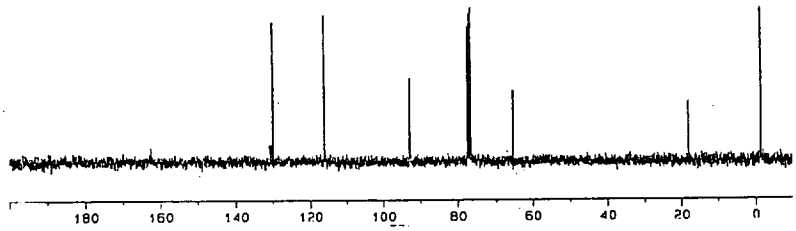


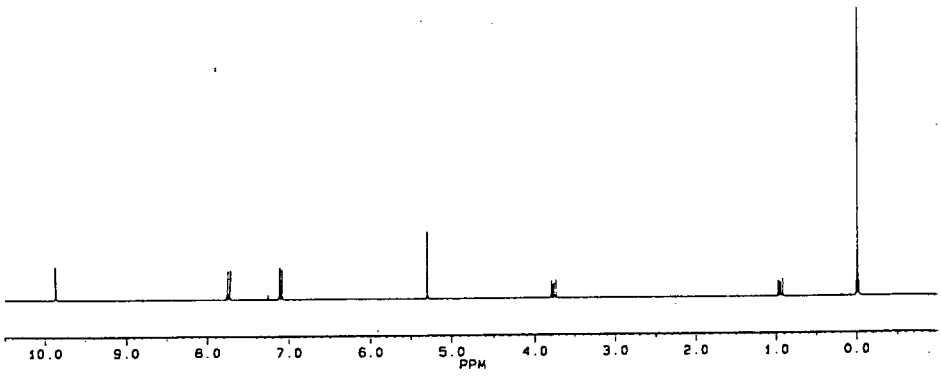




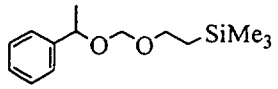
4--β-(trimethylsilyl)ethoxymethylbenzaldehyde (Table 1, Entry 5c): ^{1}H-NMR: δ 0.00(9H, s), 0.91(2H, t, J=8.3), 3.45(2H, t, J=8.3), 5.27(2H, s), 7.15(2H, d, J=8.5) , 7.71(2H, d, J=8.5), 9.87 (1H, s). ^{13}C-NMR: δ-1.4, 18.0, 64.2, 93.5, 117.8, 129.0, 130.7, 166.0, 190.1.

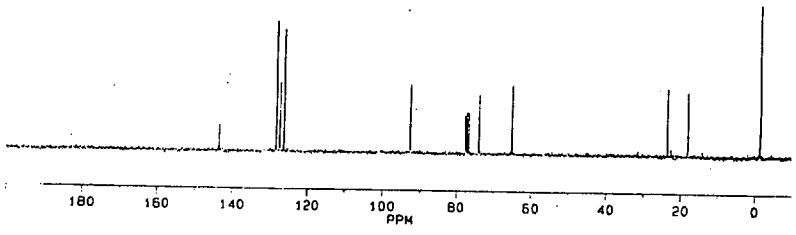


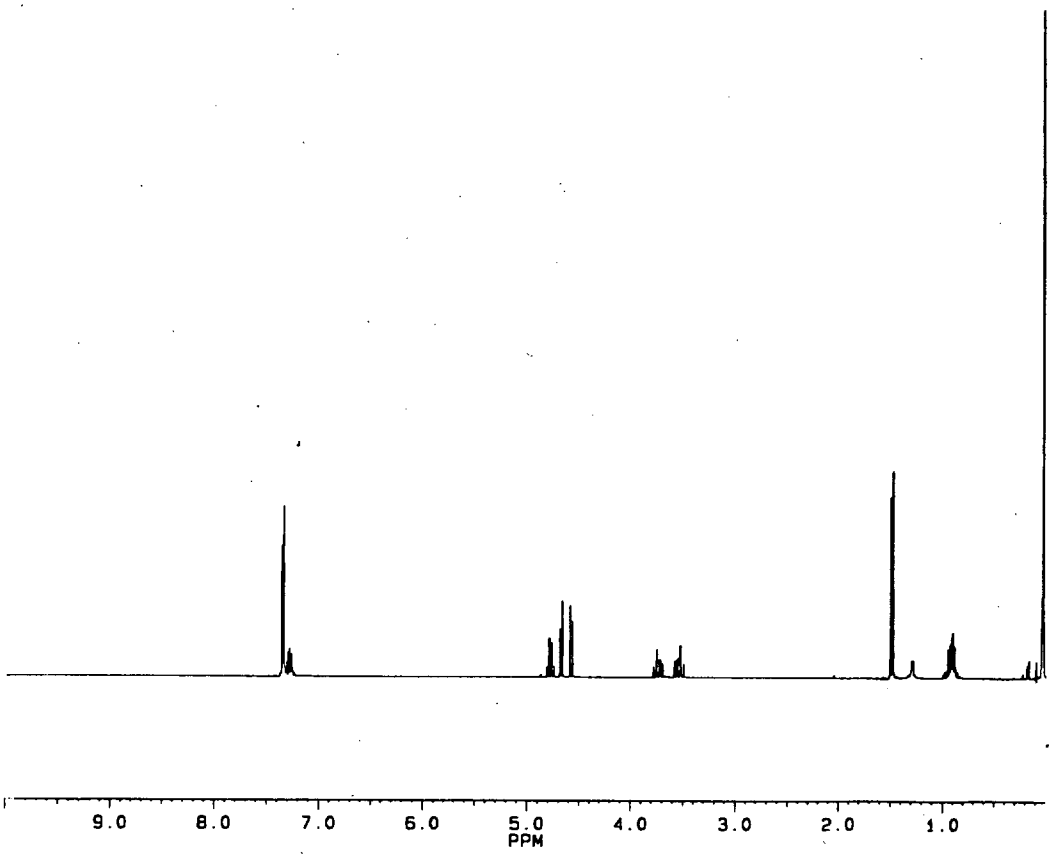




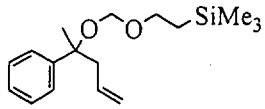
2-Phenylehtyl-β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 6) : ^{1}H-NMR: δ 0.03(9H, s), 0.88-0.95(2H, m), 1.48(3H, d, J=6.6), 3.54(1H, m), 3.74(1H, m), 4.57(1H, d, J=7.0), 4.67(1H, d, J=7.0), 4.78(1H, q, J=6.6), 7.25-7.35(5H, m). ^{13}C-NMR: δ -1.5, 23.6, 18.0, 23.6, 65.0, 73.9, 92.5, 126.3, 127.4, 128.3, 143.5.

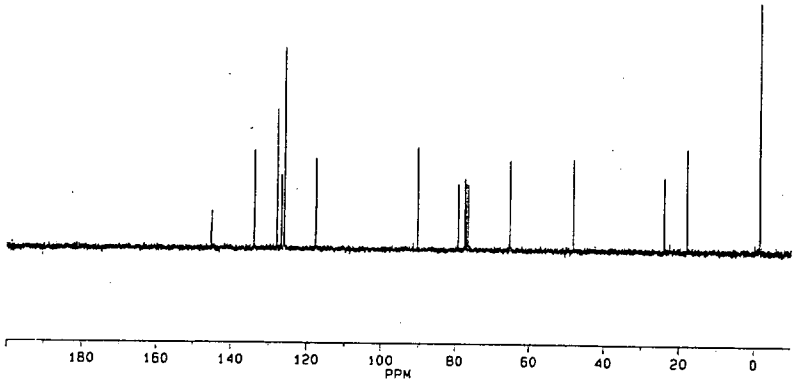


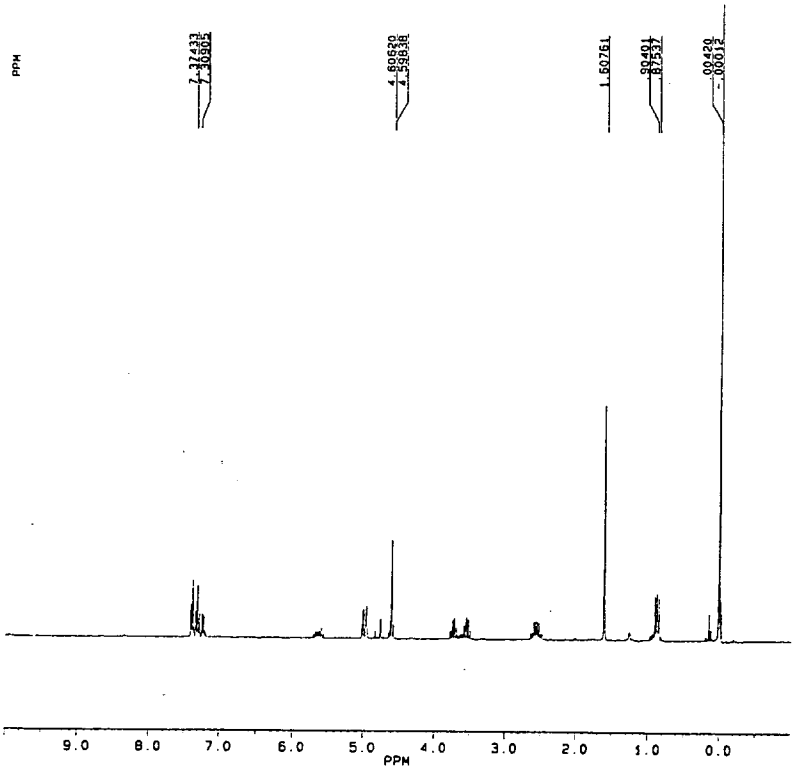




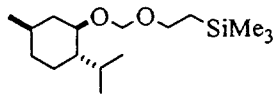
1-Phenyl-2-β-(trimethylsilyl)ethoxymethyl -4-pentene (Table 1, Entry 7) : ^{1}H-NMR: δ 0.03(9H, s), 0.91(2H, t, J=7.0), 1.64(3H, s), 2.55-2.62(2H, m), 3.58(1H, m), 3.74(1H, m), 4.66(2H,s), 5.01(2H, brd, J=13), 5.65(1H, m), 7.25-7.44(5H, m). ^{13}C-NMR: δ -1.5, 18.0, 24.0, 48.3, 65.3, 79.3, 90.3, 117.6, 126.1, 128.0, 134.0, 145.2.

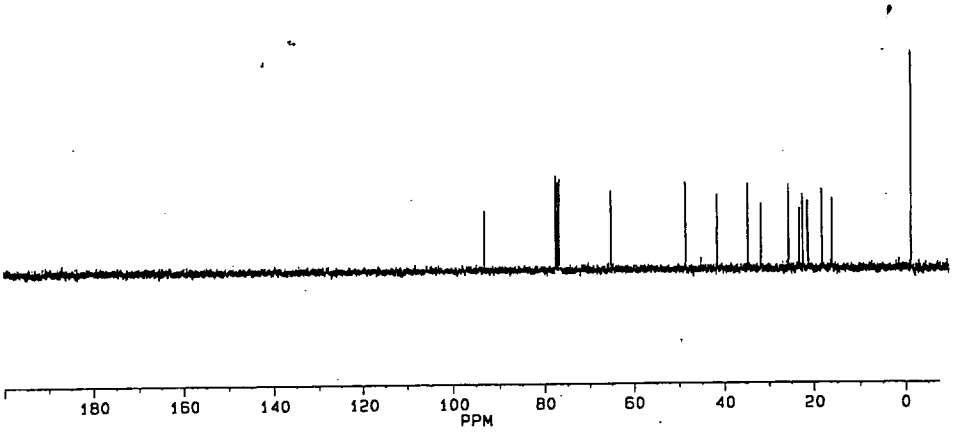


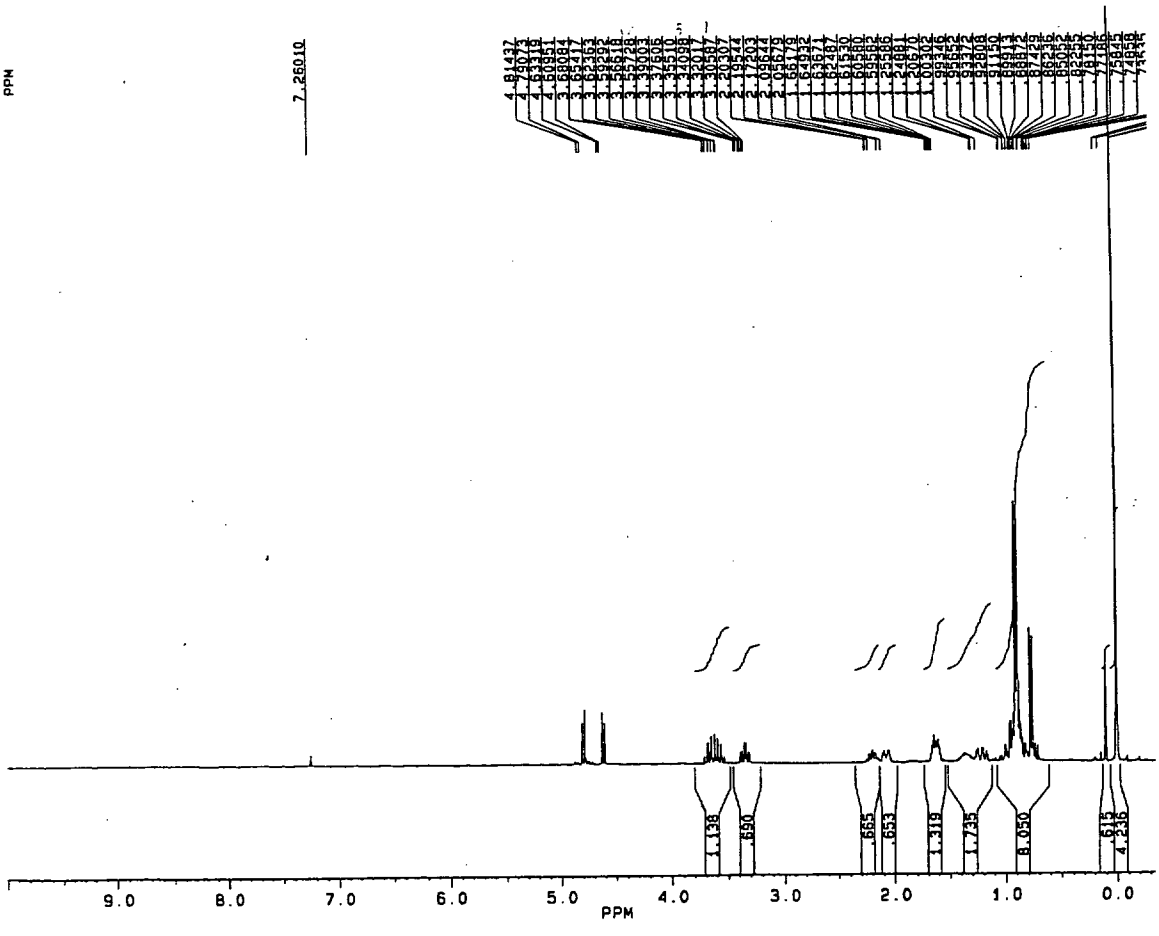




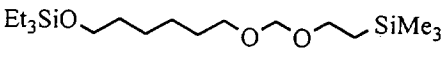
(1*S*, 2*R*, 5*R*)Menthyl -β-(trimethylsilyl)ethoxymethyl ether (Table 1, Entry 8) : ^{1}H-NMR: δ 0.00(9H, s), 0.76(3H, d, J=6.1), 0.85-1.09(4H, m), 0.92(6H, d, J=6.2), 1.15-1.25(2H, m), 1.36(1H, m), 1.60-1.66(2H, m), 2.08(1H, m), 2.19(1H, m), 3.34(1H, ddd, J=10.5, 10.5, 4.3), 3.56-3.68(2H, m), 4.62(1H, d, J=7.1), 4.80(1H, d, J=7.1). ^{13}C-NMR: δ -1.5, 15.9, 18.0, 21.1, 22.3, 23.0, 25.4, 31.5, 34.4, 41.4, 48.1, 65.0, 76.7, 95.2.

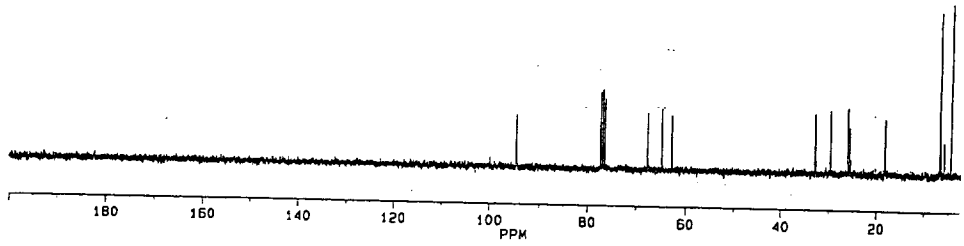


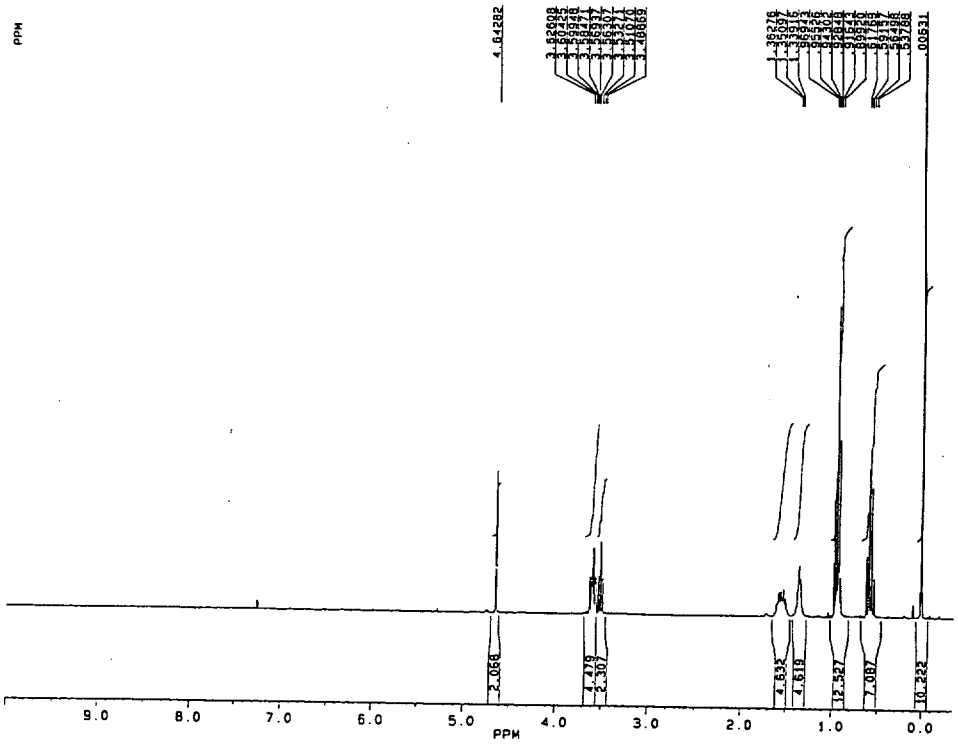




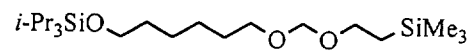
1-triethylsilyloxy-6-[β-(trimethylsilyl)ethoxymethyl]hexane (Scheme 2,3,4) : ^{1}H-NMR: δ 0.00(9H, s), 0.58(6H, q, J=8.1), 0.90-0.97(2H, m), 0.93(9H, t, J=8.1), 1.34-1.36(4H, m), 1.48-1.66(4H, m), 3.51(2H, t, J=6.2), 3.56-3.62(4H, m), 4.64(2H, s). ^{13}C-NMR: δ -1.5, 4.4, 6.7, 18.1, 25.7, 26.1, 29.7, 32.8, 62.8, 64.9, 67.8, 94.7.

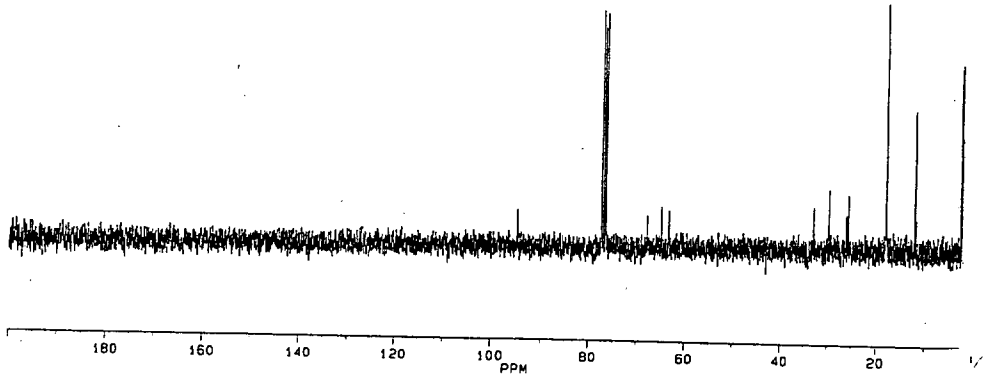


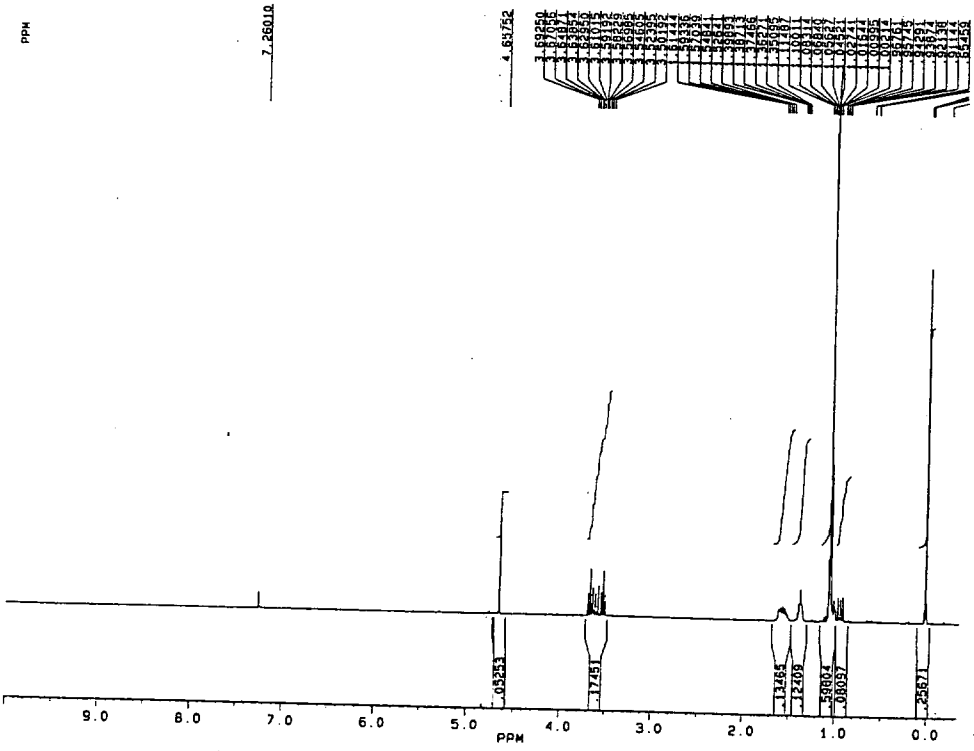




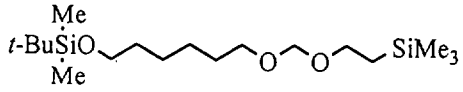
1-triisopropylsilyloxy-6-[β-(trimethylsilyl)ethoxymethyl]hexane (Scheme 2,3,4) : ^{1}H-NMR: δ 0.02(9H, s), 0.94(3H, t, J=8.2), 1.04-1.08(3H, m), 1.06(18H, s), 1.36-1.40(4H, m), 1.49-1.65(4H, m), 3.52(2H, t, J=6.5), 3.58-3.69(4H, m), 4.65(2H, s). ^{13}C-NMR: δ -1.5, 12.0(3C), 18.0(6C), 18.1, 25.7, 26.1, 29.8, 33.0, 63.4, 64.9, 67.8, 94.8.

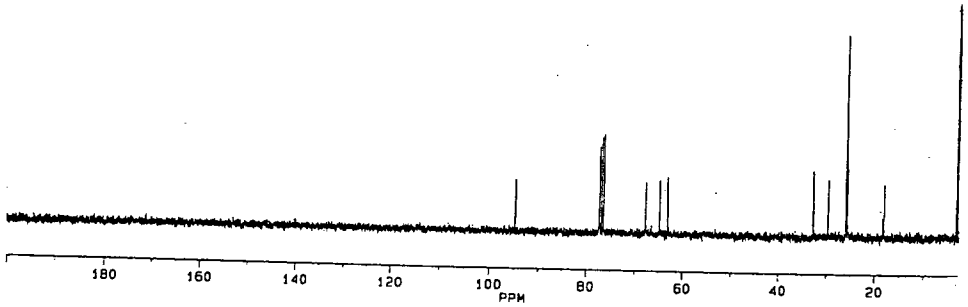


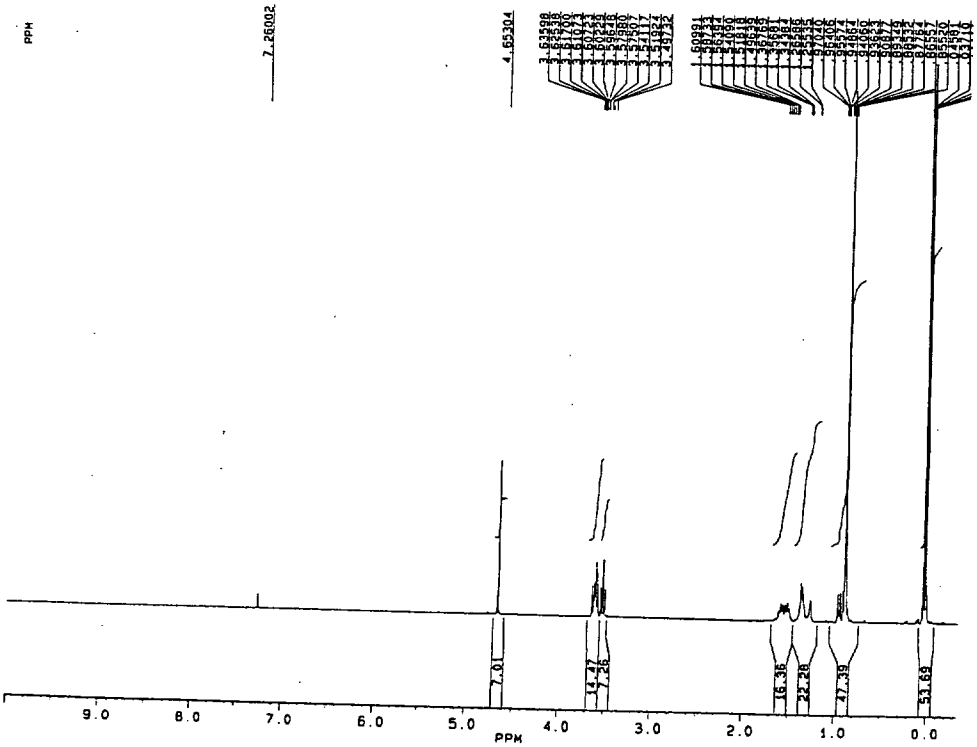




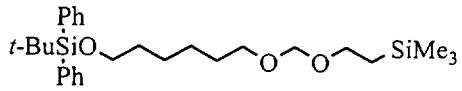
1-*tert*-Butyldimethylsilyloxy-6-[β-(trimethylsilyl)ethoxymethyl]hexane (Scheme 2,3,4) : ^{1}H-NMR: δ 0.00(9H, s), 0.04(6H, s), 0.89(9H, s), 0.96(3H, t, J=8.4), 1.32-1.37(4H, m), 1.50-1.61(4H, m), 3.52(2H, t, J=6.5), 3.60-3.64(4H, m), 4.65(2H, s). ^{13}C-NMR: δ -1.5, 18.1, 18.2, 25.7, 26.0(2C), 26.1(3C), 29.8, 32.8(2C), 63.2, 64.9, 67.8, 94.8.

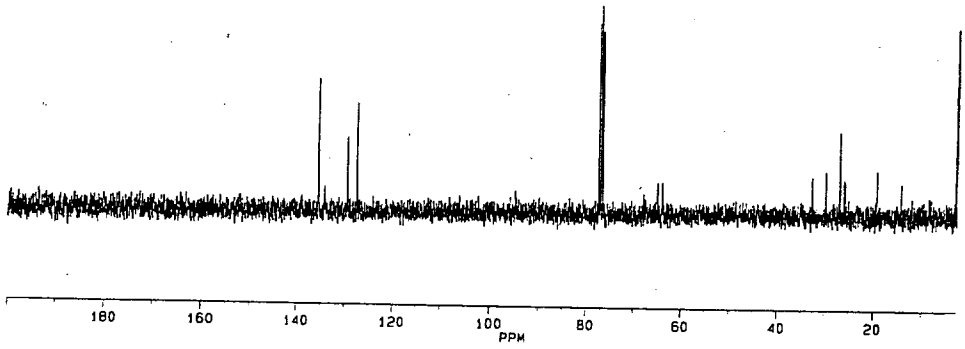


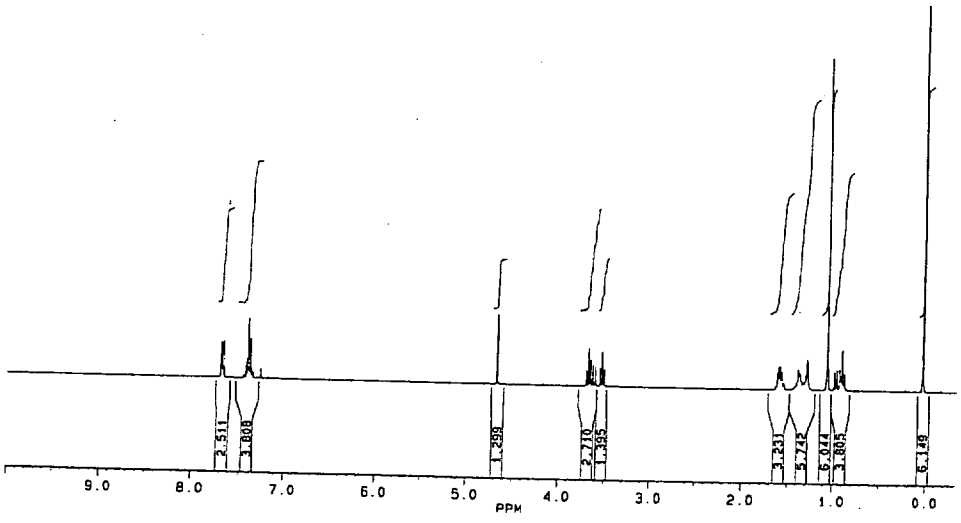




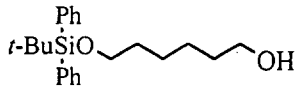
1-*tert*-Butyldiphenylsilyloxy-6-[β-(trimethylsilyl)ethoxymethyl]hexane (Scheme 2,3,4) : ^{1}H-NMR: δ 0.03(9H, s), 0.96(2H, t, J=8.4), 1.32-1.39(4H, m), 1.54-1.60(4H, m), 3.52(2H, t, J=6.5), 3.60-3.69(4H, m), 4.67(2H, s), 7.26-7.42(6H, m), 7.66-7.69(4H, m). ^{13}C-NMR: δ -1.5, 14.1, 18.1, 25.7, 26.0, 26.9, 29.8, 32.5, 63.9, 64.9, 67.5, 95.1, 127.6(4C), 129.5(2C), 134.5(2C), 135.6(4C).

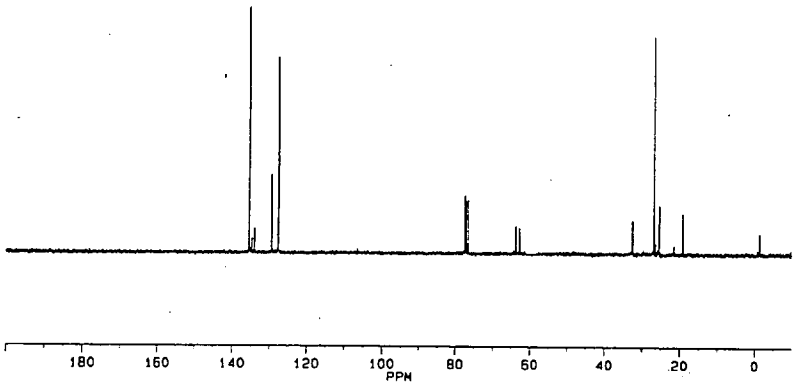


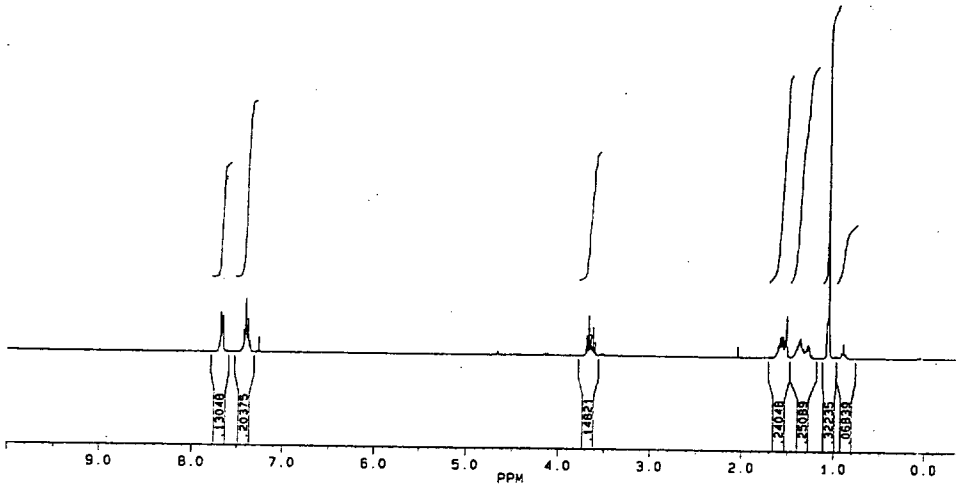




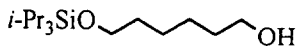
6-*tert*-Butyldiphenylsilyloxyyhexanol (Scheme 4) : ^{1}H-NMR: δ 1.05(9H, Si*t*BuPh$_2$, s), 1.19(1H, br s, OH,), 1.29-1.46(4H, m), 1.50-1.65(4H, m), 3.61(2H, t, J=6.6), 3.67(2H, t, J=6.5), 7.31-7.45(6H, m), 7.64-7.70(4H, m). ^{13}C-NMR: δ 19.0, 25.3, 25.4, 26.7, 32.3, 32.4, 62.2, 63.7, 127.4, 129.3, 133.8, 135.3.

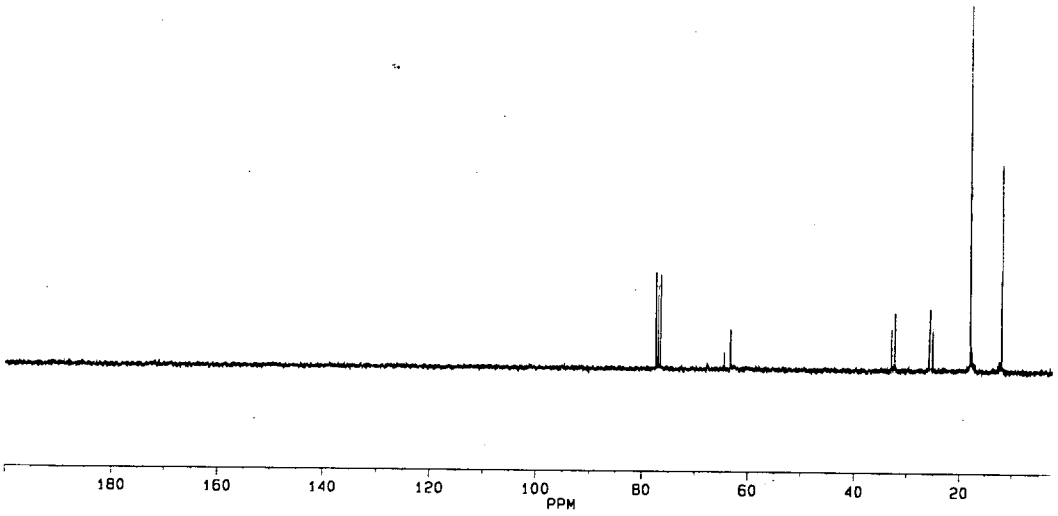


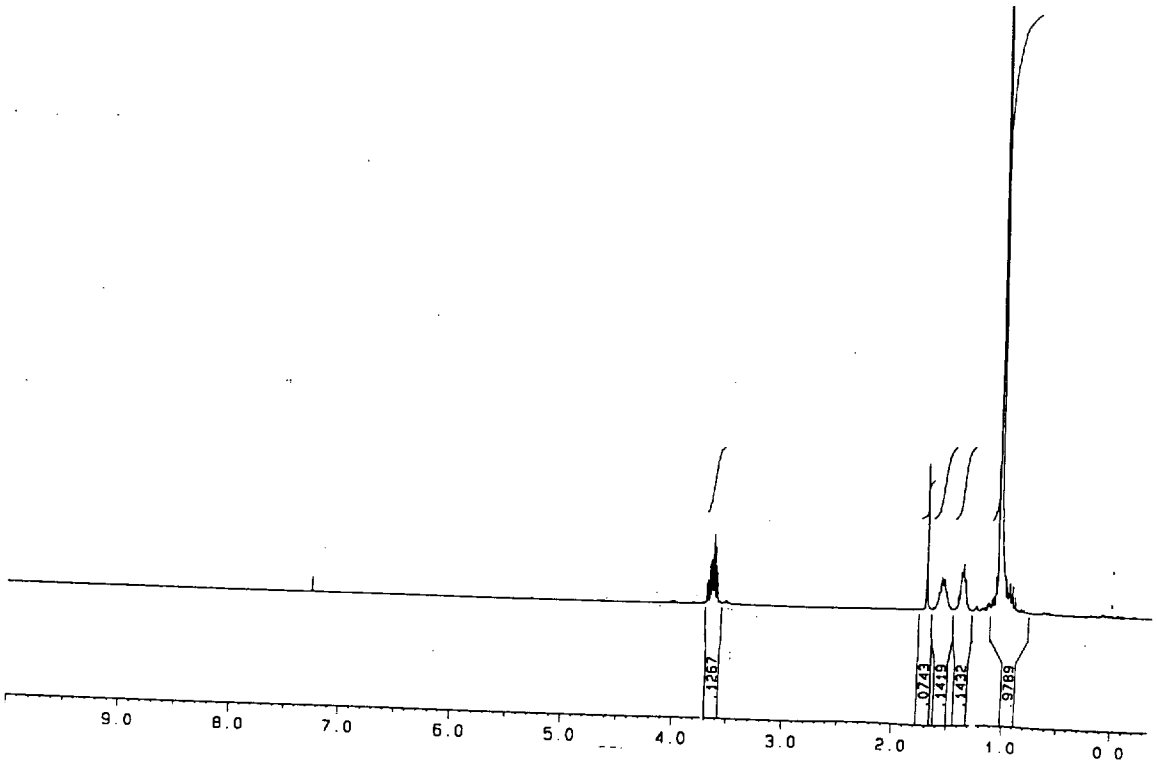




6-triisopropylsilyloxyyhexanol (Scheme 4) : ^{1}H-NMR: δ 1.09-1.15(21H, Si*i*Pr$_3$), 1.36-1.52(4H, m), 1.55-1.60(4H, m), 1.70(1H, br s, OH), 3.60-3.76(4H, m) ^{13}C-NMR: δ 12.3, 18.0, 26.3, 26.6, 33.2, 34.1, 63.0, 65.7.







6-[β-(trimethylsilyl)ethoxymethyl]hexan-1-ol (Scheme 5) : ^{1}H-NMR: δ 0.02(9H, s), 0.92(2H, t, J=8.4), 1.34-1.37(4H, m), 1.52-1.59(4H, m), 1.92(1H, brs, OH), 3.51(2H, t, J=6.5), 3.58-3.62(4H, m), 4.63(2H, s). ^{13}C-NMR: δ –1.5, 18.0, 25.5, 26.0, 29.6, 32.6, 62.7, 64.9, 67.7, 94.7.