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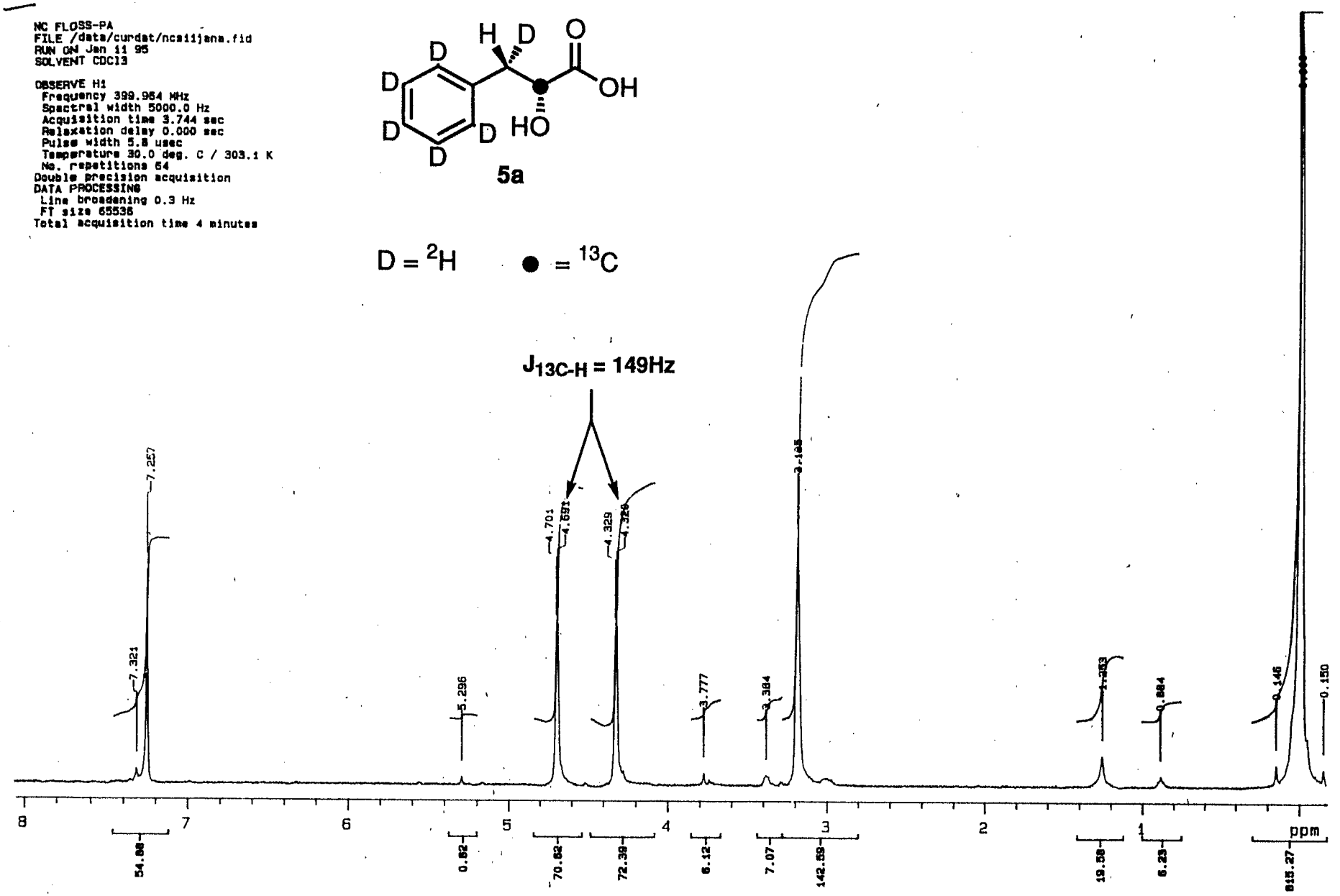


Figure 1 ^{1}H-NMR($CDCl_3$, 400MHz) of (2*R*, 3*S*)-[2-^{13}C, 3-$^{2}H_1$, *phenyl*-$^{2}H_5$]-D-phenyllactate **5a**

J 926-1

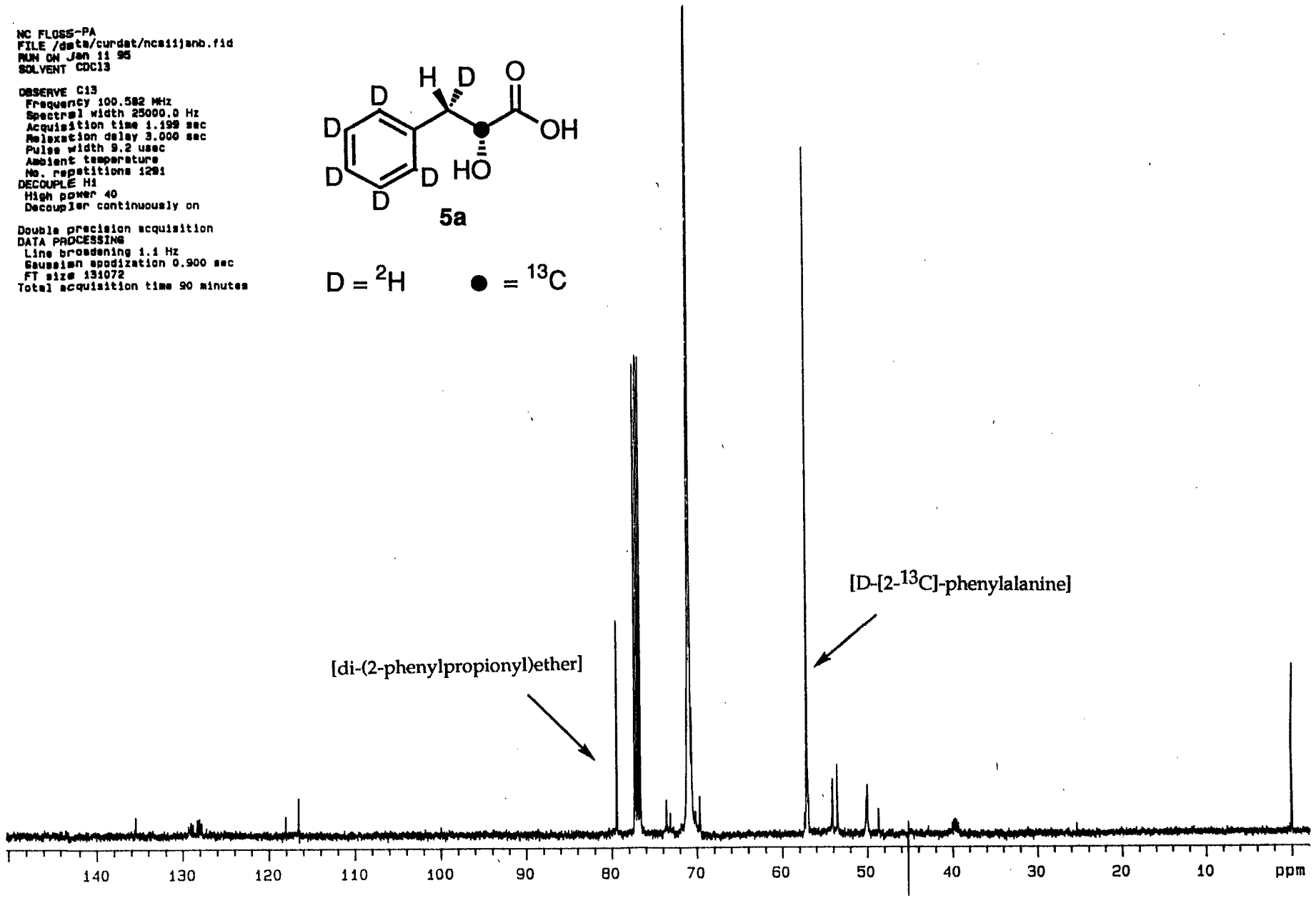


Figure 2 ^{13}C-NMR ($CDCl_3$, 100Mz) of (2*R*, 3*S*)-[2-^{13}C, 3-$^{2}H_1$, *phenyl*-$^{2}H_5$]-D-phenyllactate **5a**

J926-2

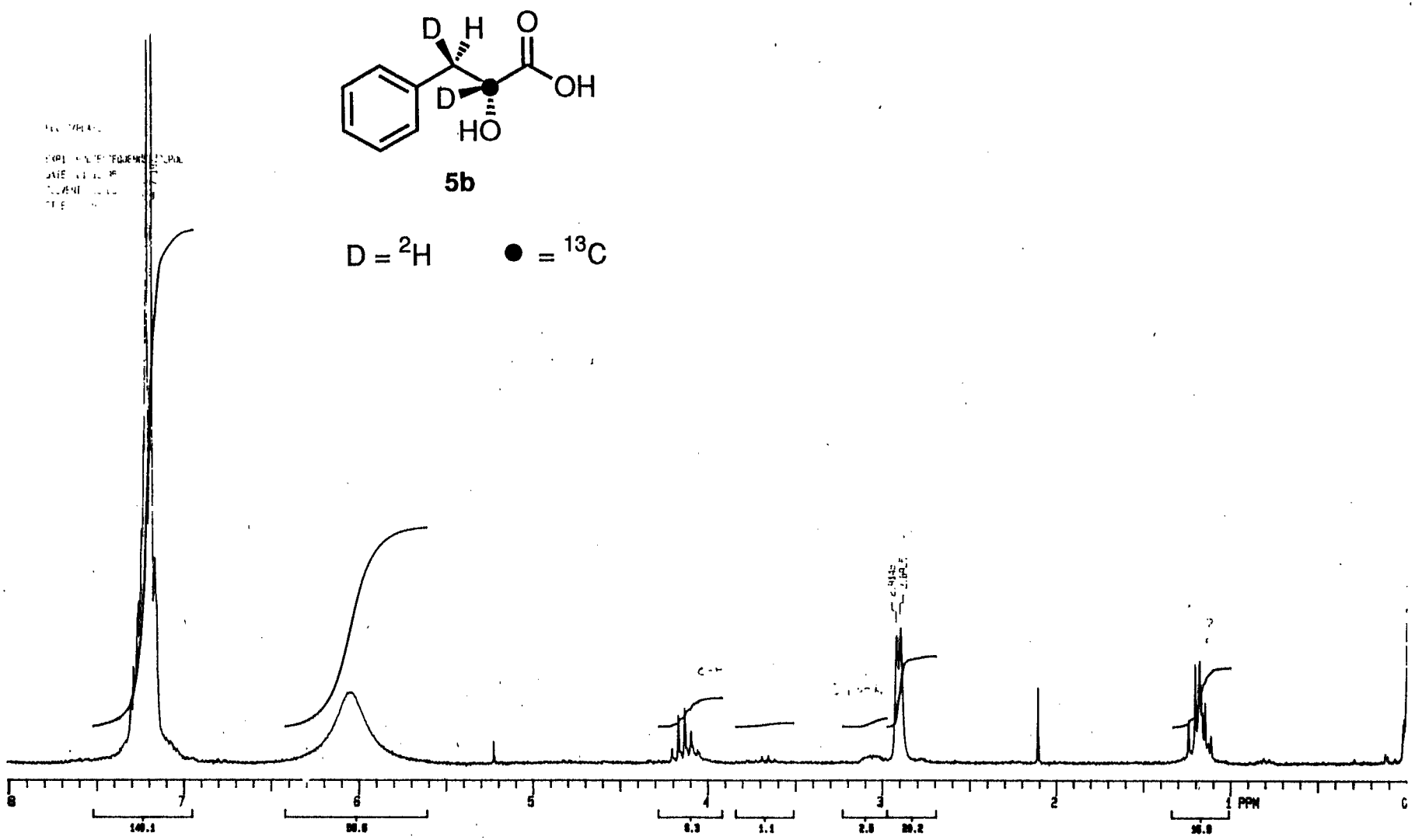


Figure 3 ^{1}H-NMR ($CDCl_3$, 200MHz) of (2*R*, 3*R*)-[2-^{13}C, 2,3-$^{2}H_2$]-D-phenyllactate **5b**

J924-3

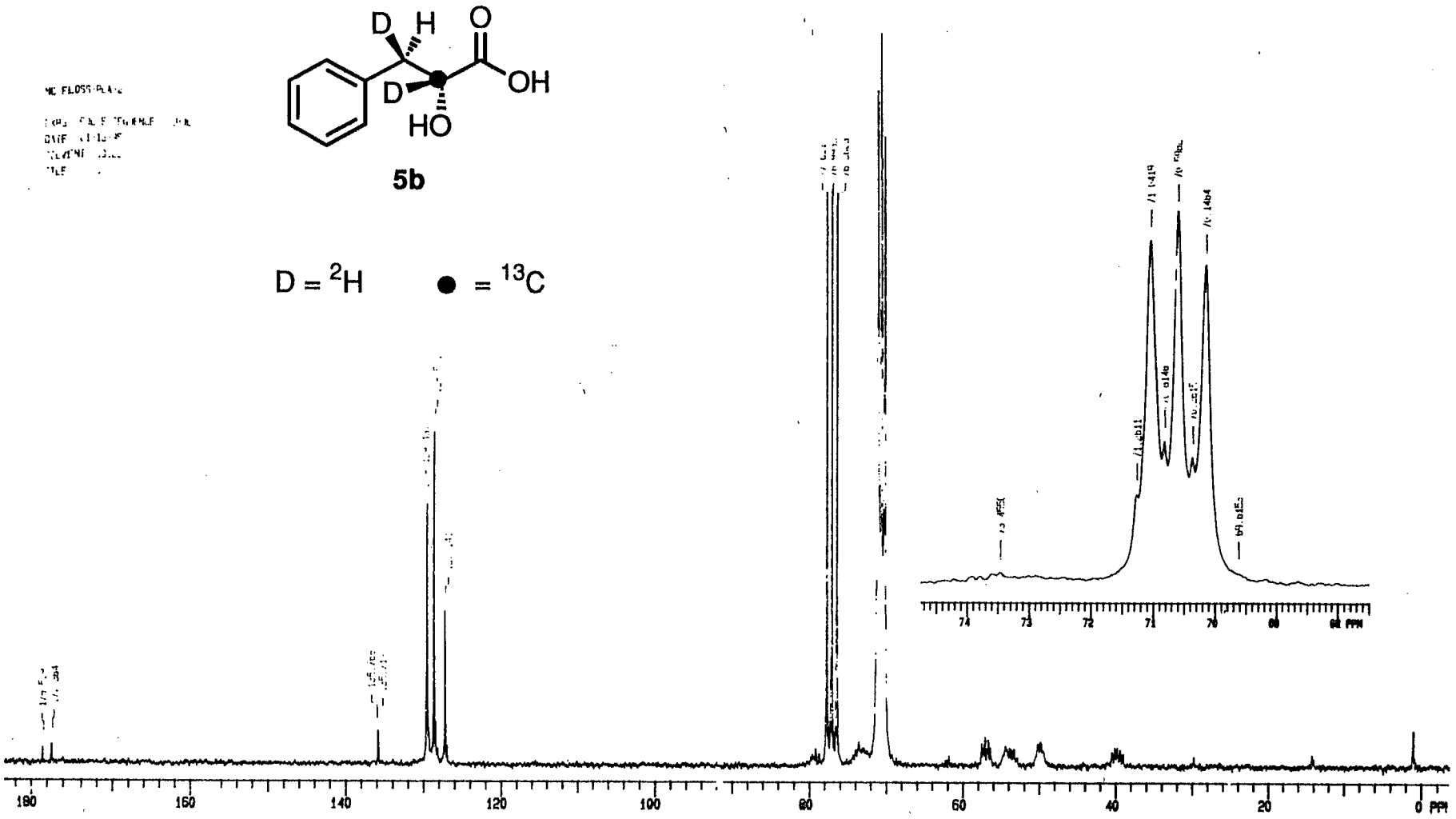
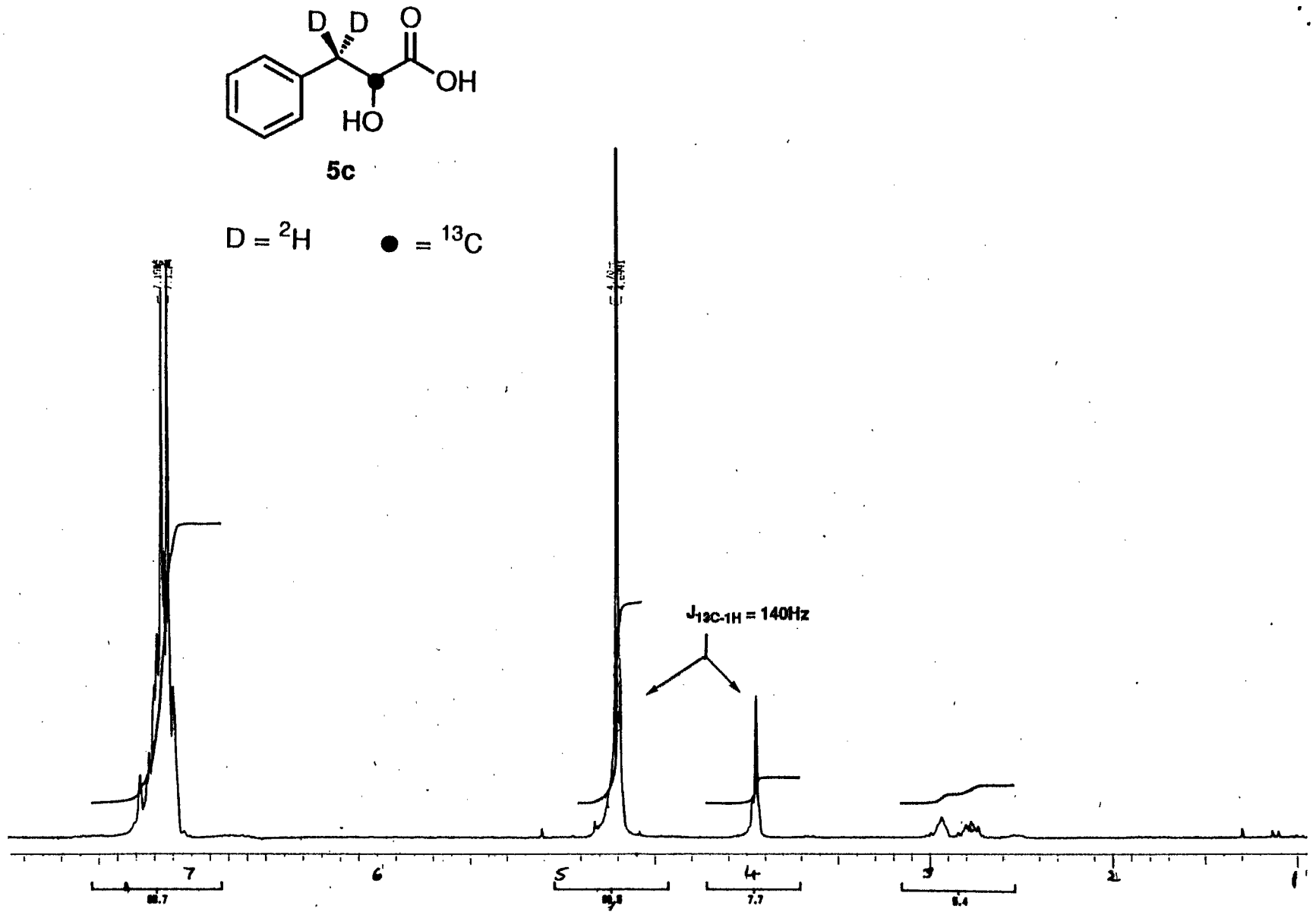


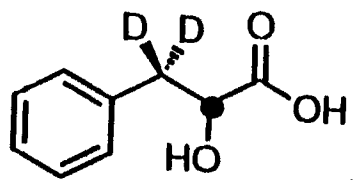
Figure 4 ^{13}C-NMR ($CDCl_3$, 50MHz) of (2*R*, 3*R*)-[2-^{13}C, 2,3-$^{2}H_2$]-D-phenyllactate **5b**

J926-4



J926-5

Figure 5 ^{1}H-NMR (D_2O, 200MHz) of [2-^{13}C,3-$^{2}H_2$]-DL-phenyllactate **5c**



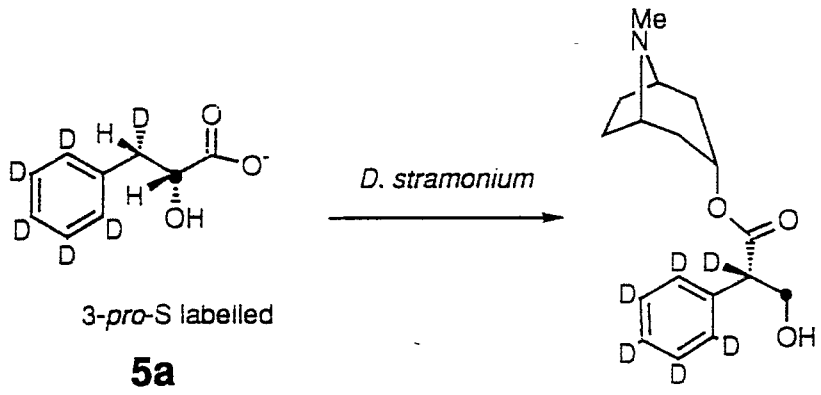
5c

D = ^{2}H ● = ^{13}C

Figure 6 ^{13}C-NMR (D_2O, 50MHz) of [2-^{13}C,3-$^{2}H_2$]-DL-phenyllactate 5c

J926-6

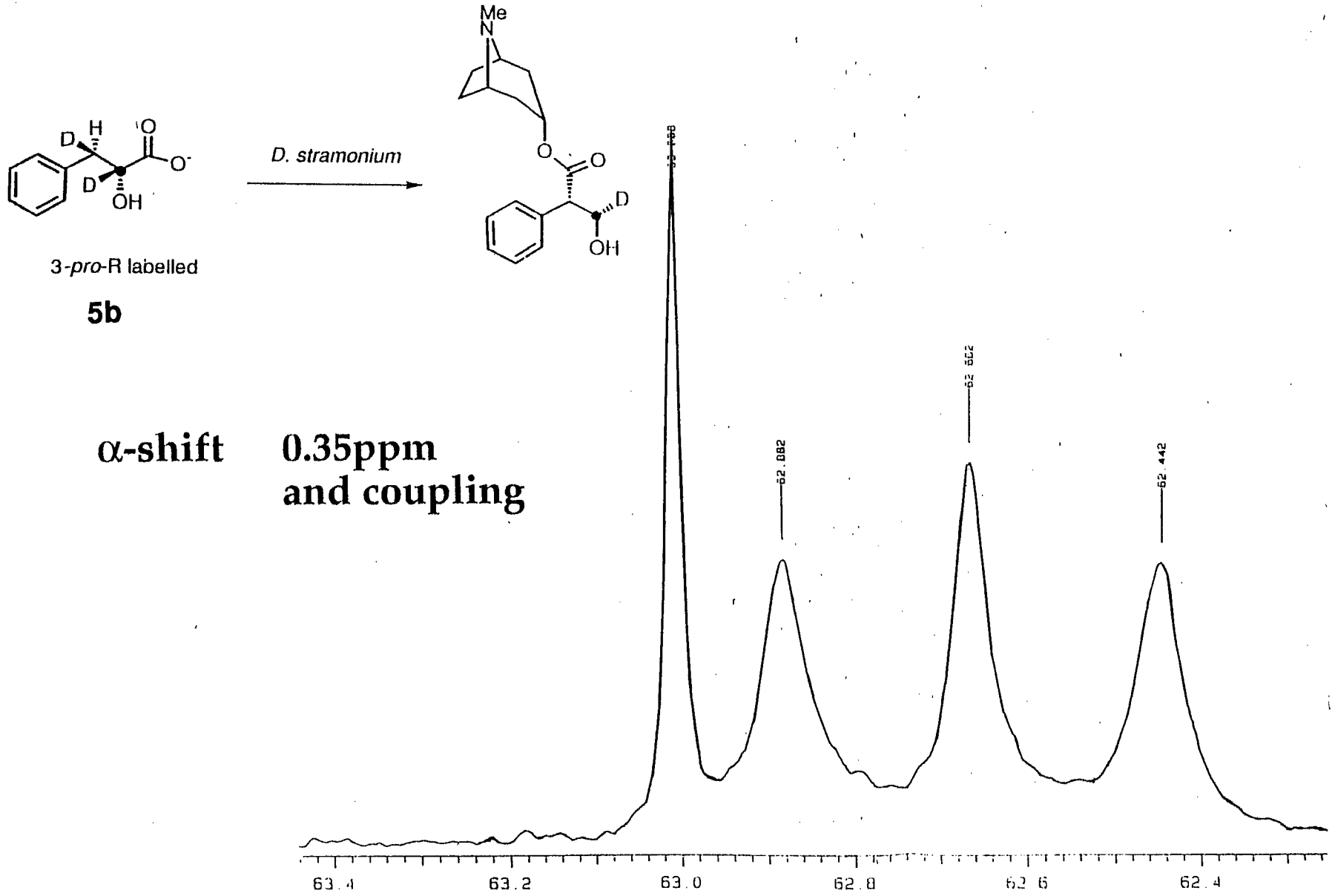
J926-7



5a

β-shift 0.065ppm

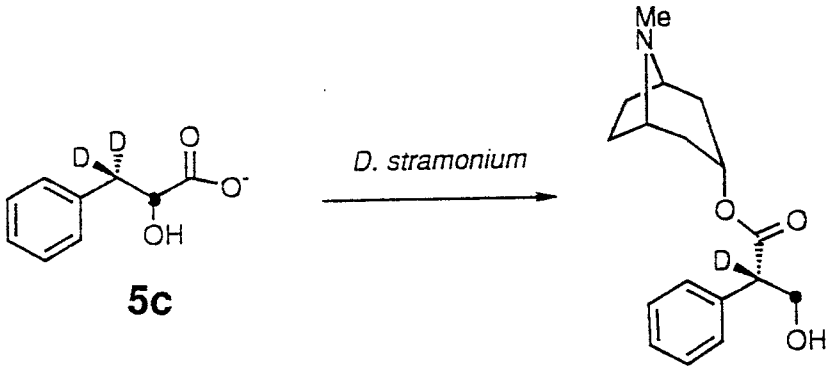
Figure 7 Section of the ^{13}C-NMR ($CDCl_3$, 100MHz) of hyoscyamine after feeding (2*R*, 3*S*)-[2-^{13}C, 3-$^{2}H_1$, *phenyl*-$^{2}H_5$]-D-phenyllactate **5a** showing enrichment at C3' and β-shift.



J926-8

Figure 8 Section of the ^{13}C-NMR ($CDCl_3$, 100MHz) of hyoscyamine after feeding (2*R*, 3*R*)-[2-^{13}C, 2,3-$^{2}H_2$]-D-phenyllactate **5b** showing enrichment at C3'and α-shift

J926-9



5c

β-shift 0.064ppm

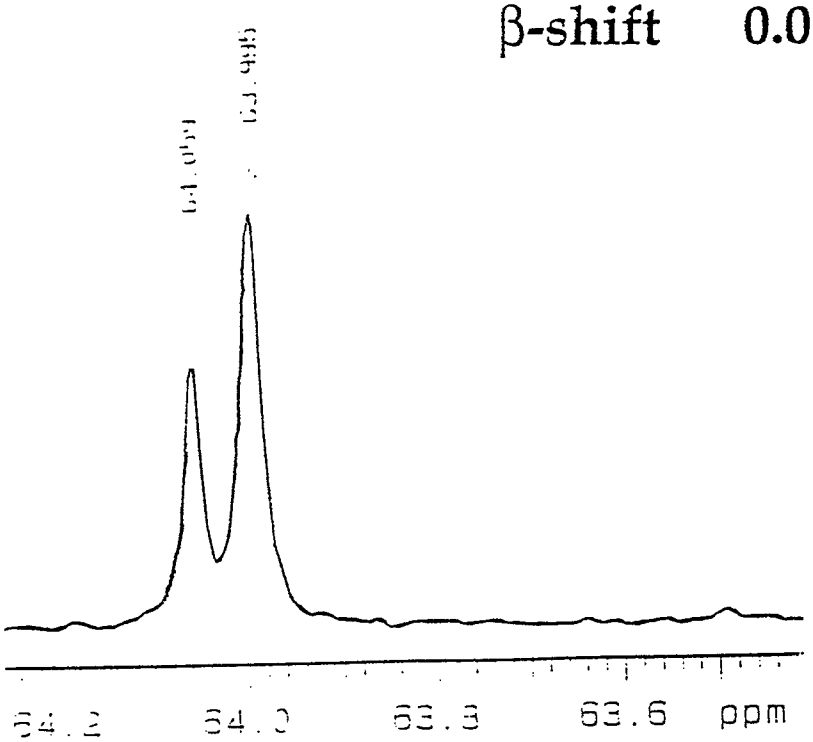


Figure 9 Section of the ^{13}C-NMR ($CDCl_3$, 100MHz) of hyoscyamine after feeding DL-[2-^{13}C,3-$^{2}H_2$]-phenyllactate **5c** showing enrichment at C3' and β-shift.