Supporting Information

for

Synthesis of 4” manipulated Lewis X trisaccharide analogues

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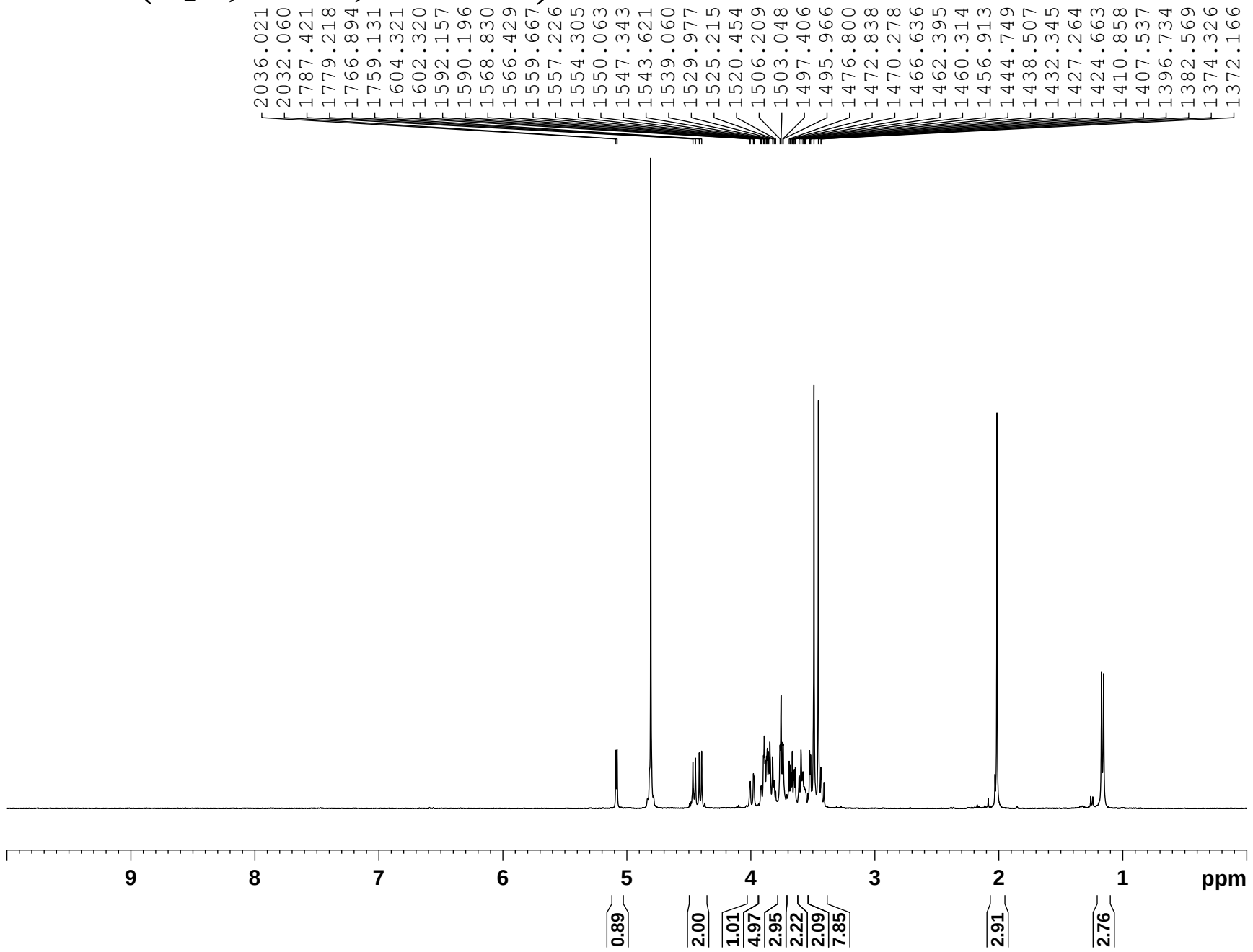
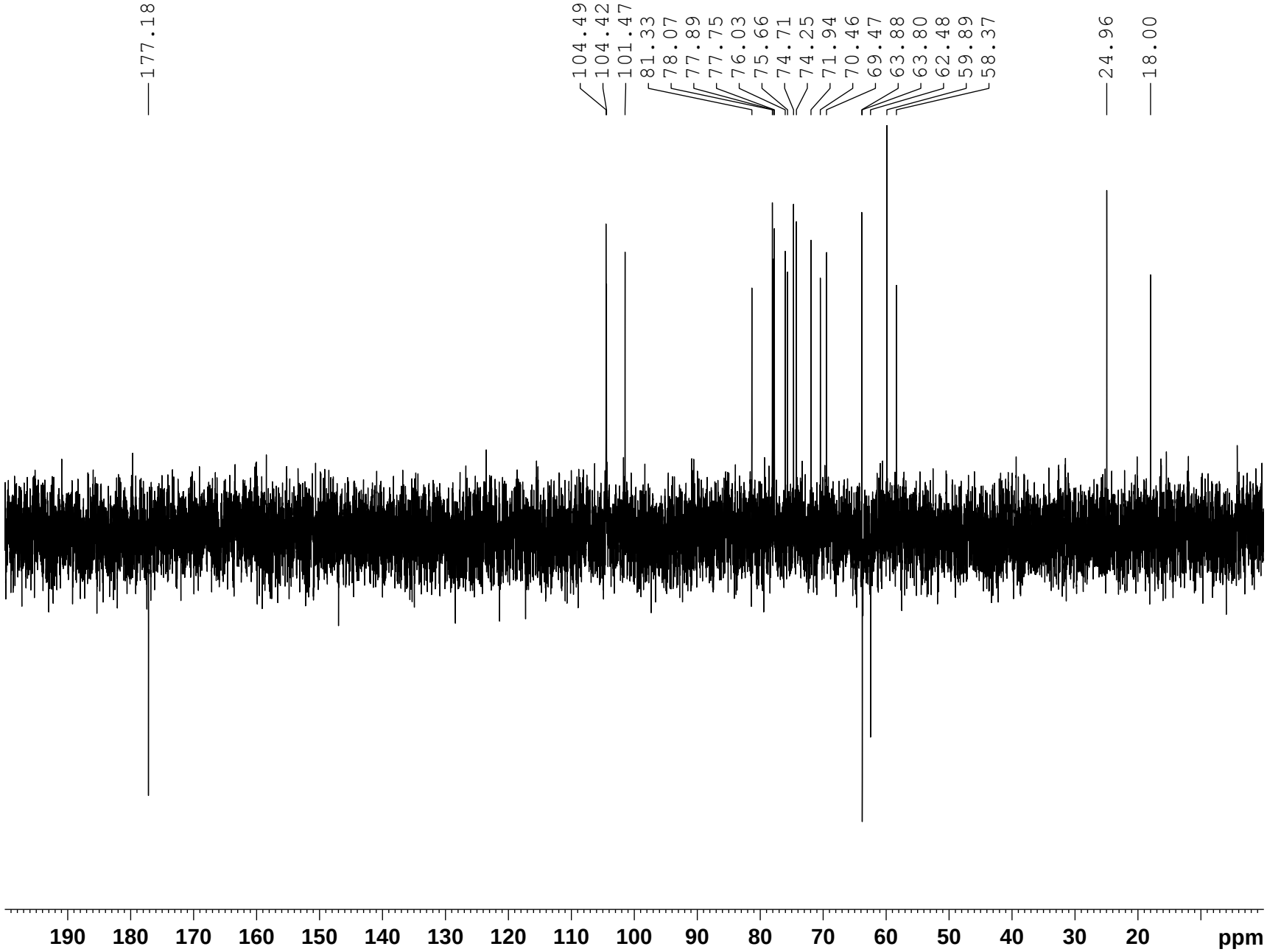
^{1}H NMR and ^{13}C NMR for compounds **3**–**5, 8**–**11**, **14**–**28**.

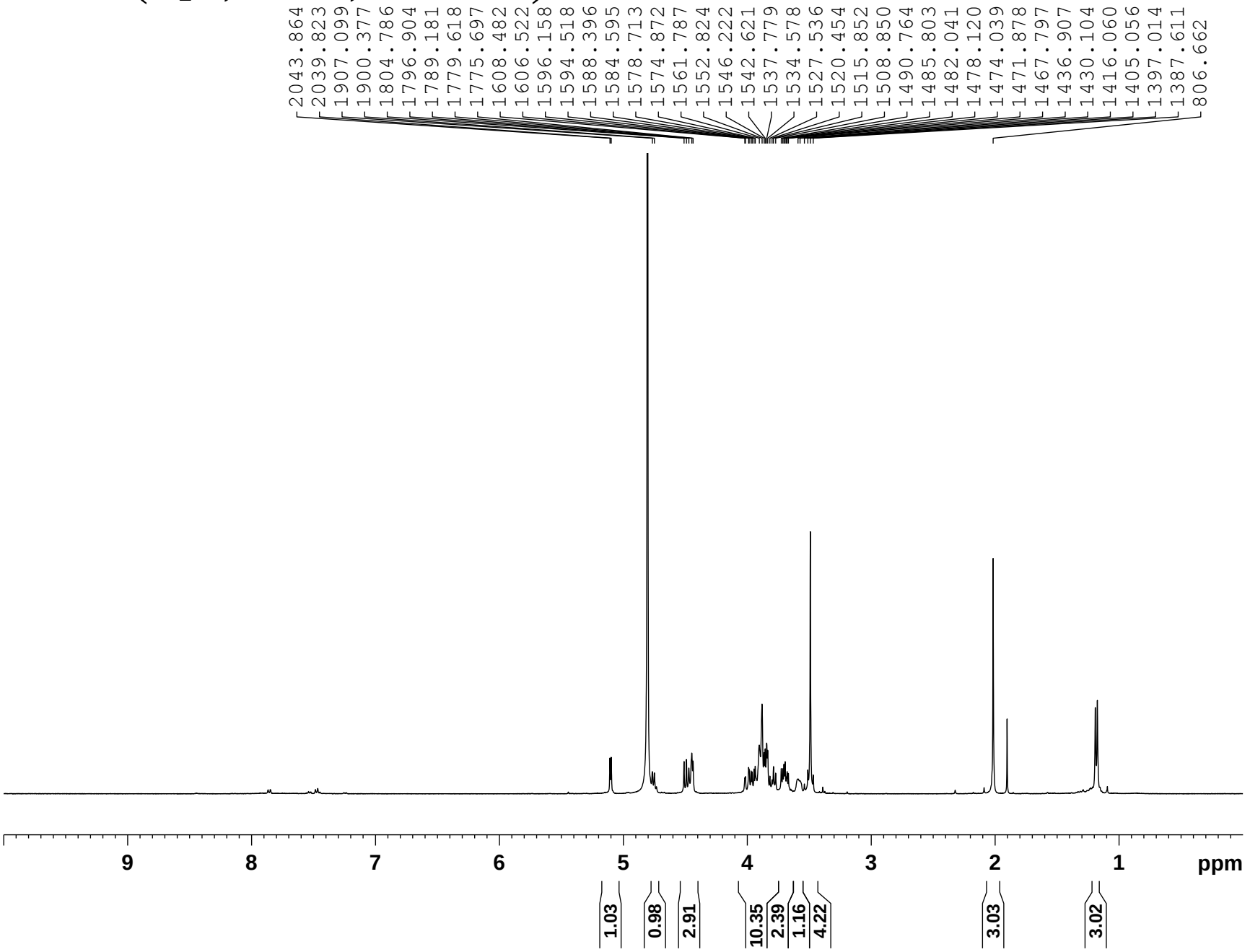
3, ^{1}H NMR (D_2O, 295 K, 400 MHz)



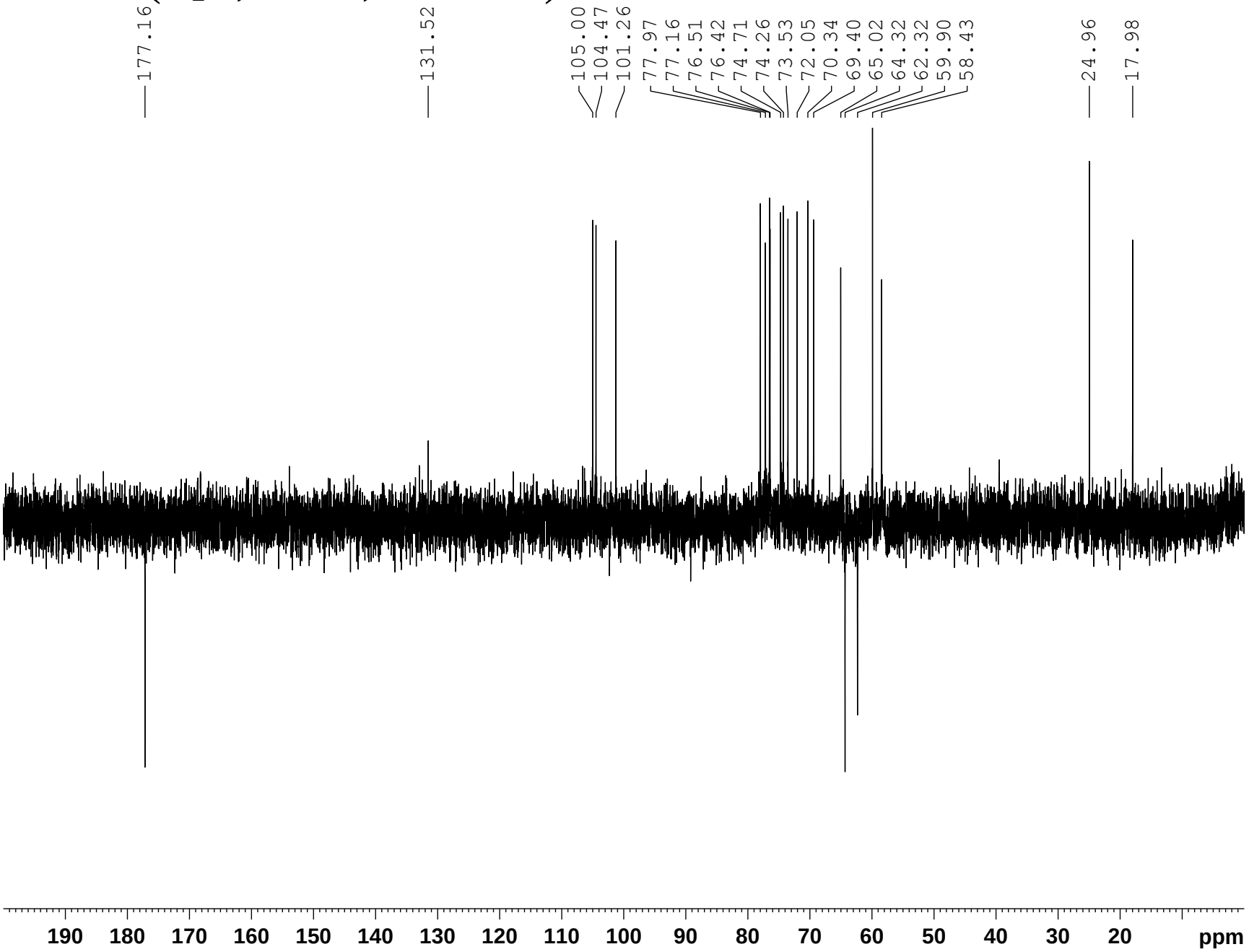
3, ^{13}C NMR (D_2O, 295 K, 100 MHz)



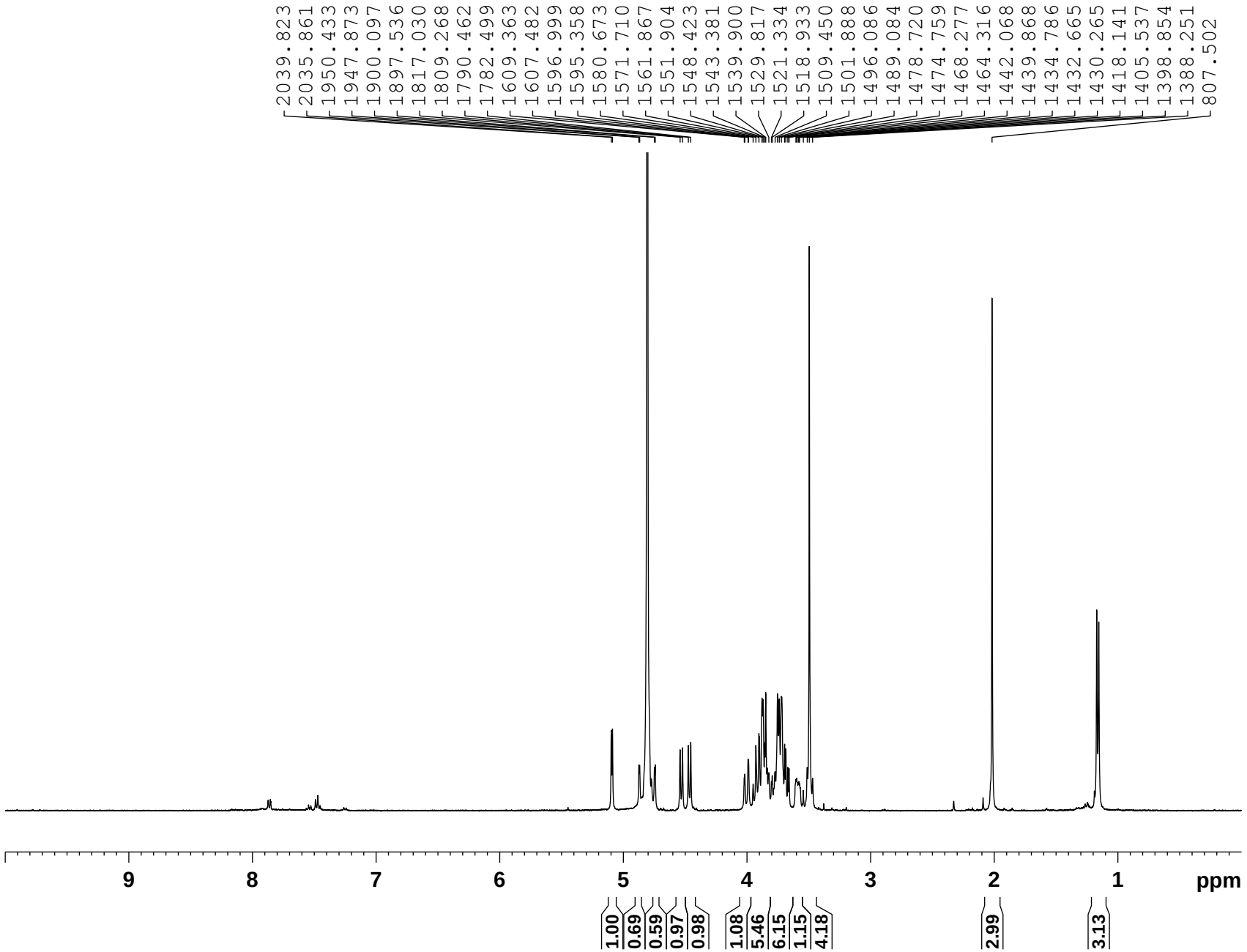
4, ^{1}H NMR (D_2O, 295 K, 400 MHz)



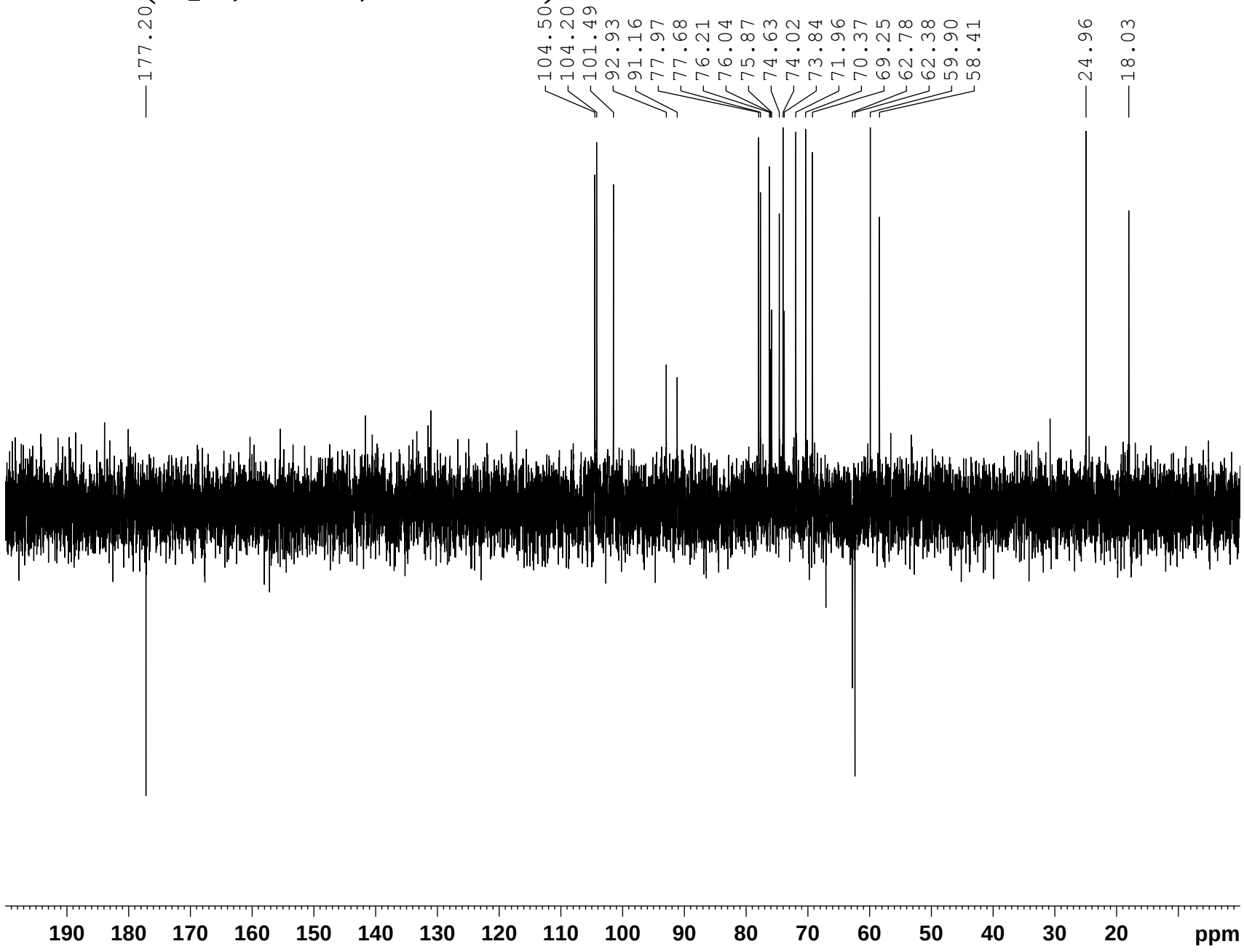
4, ^{13}C NMR (D_2O, 295 K, 100 MHz)



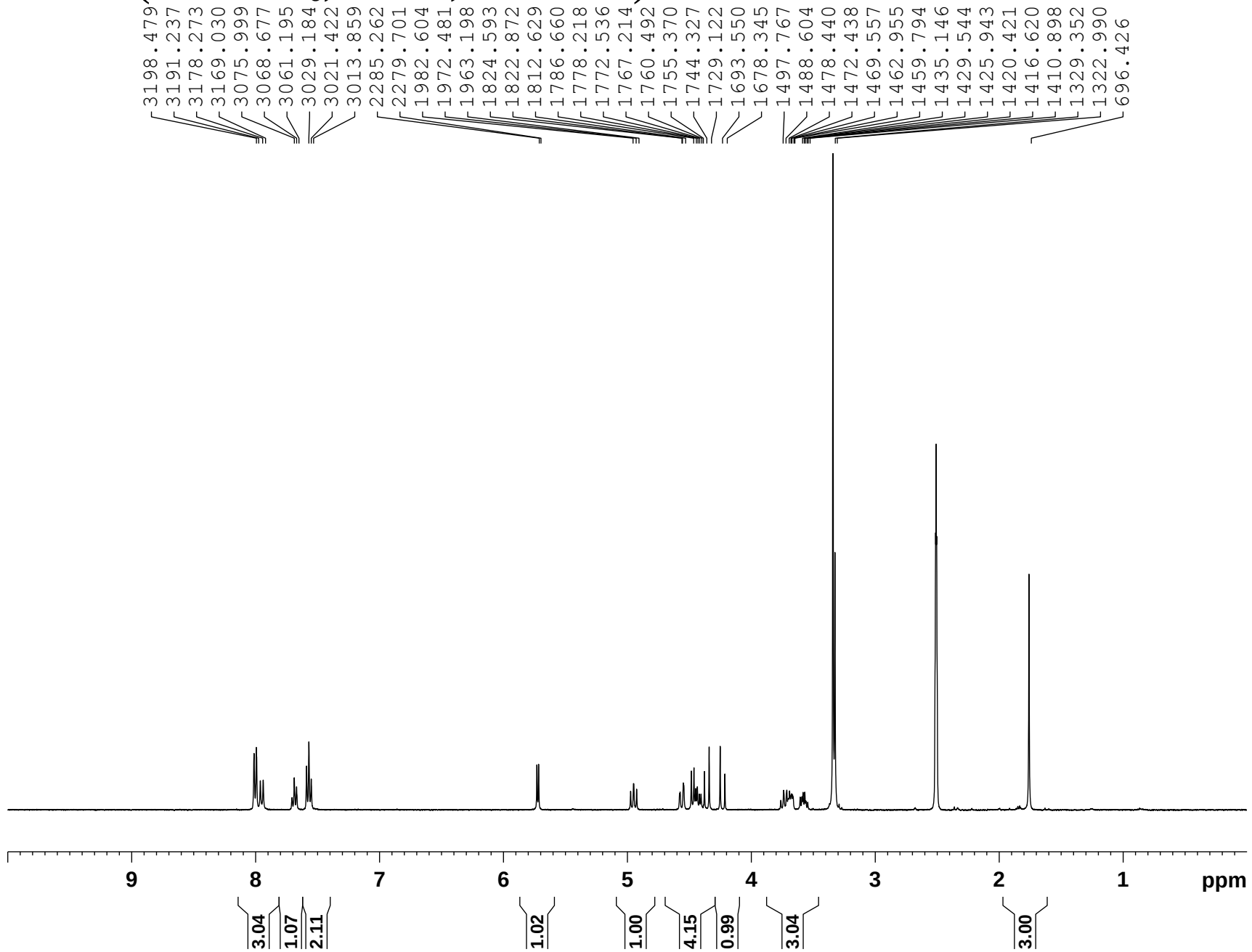
5, ^{1}H NMR (D_2O, 295 K, 400 MHz)



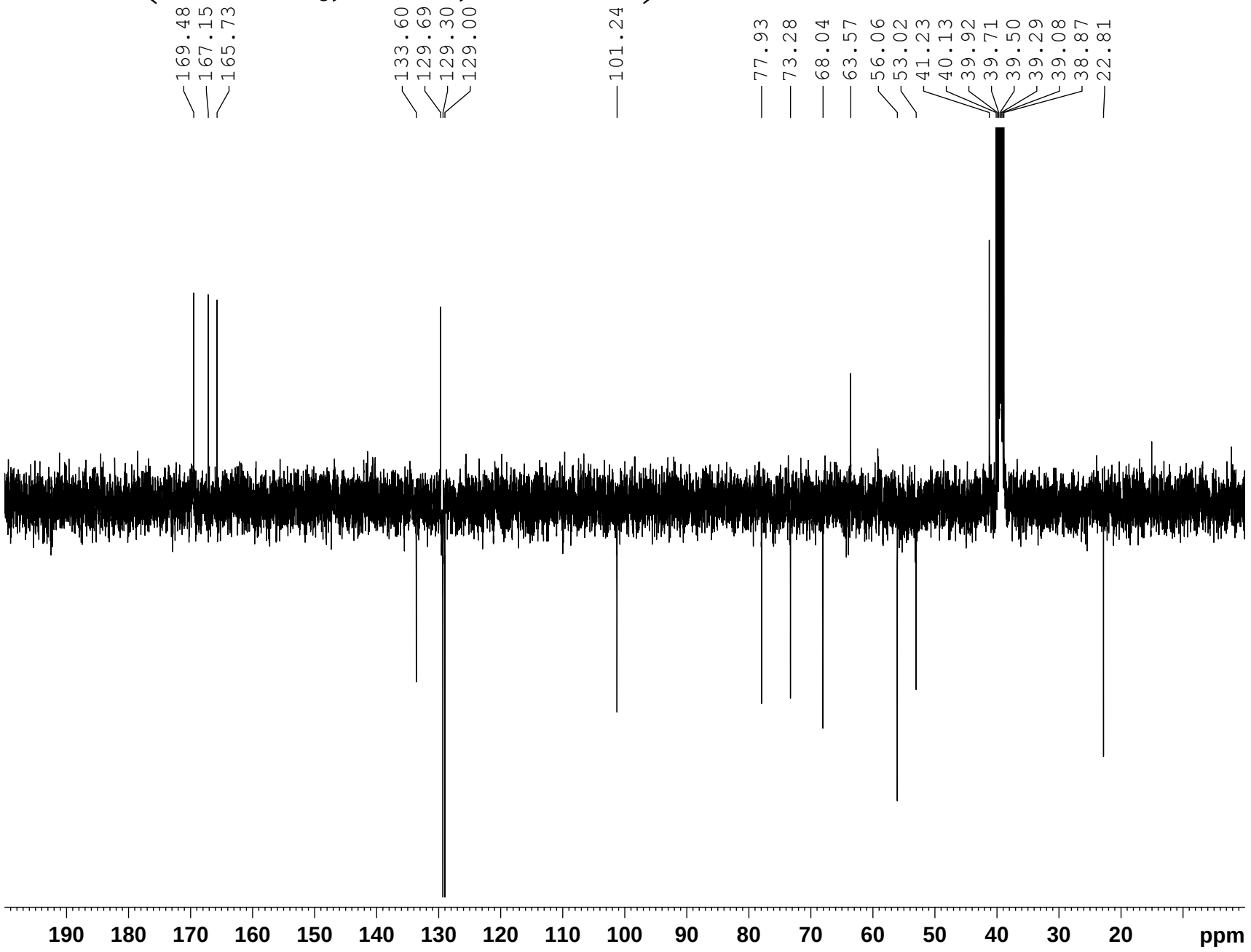
5, ^{13}C NMR (D_2O, 295 K, 100 MHz)



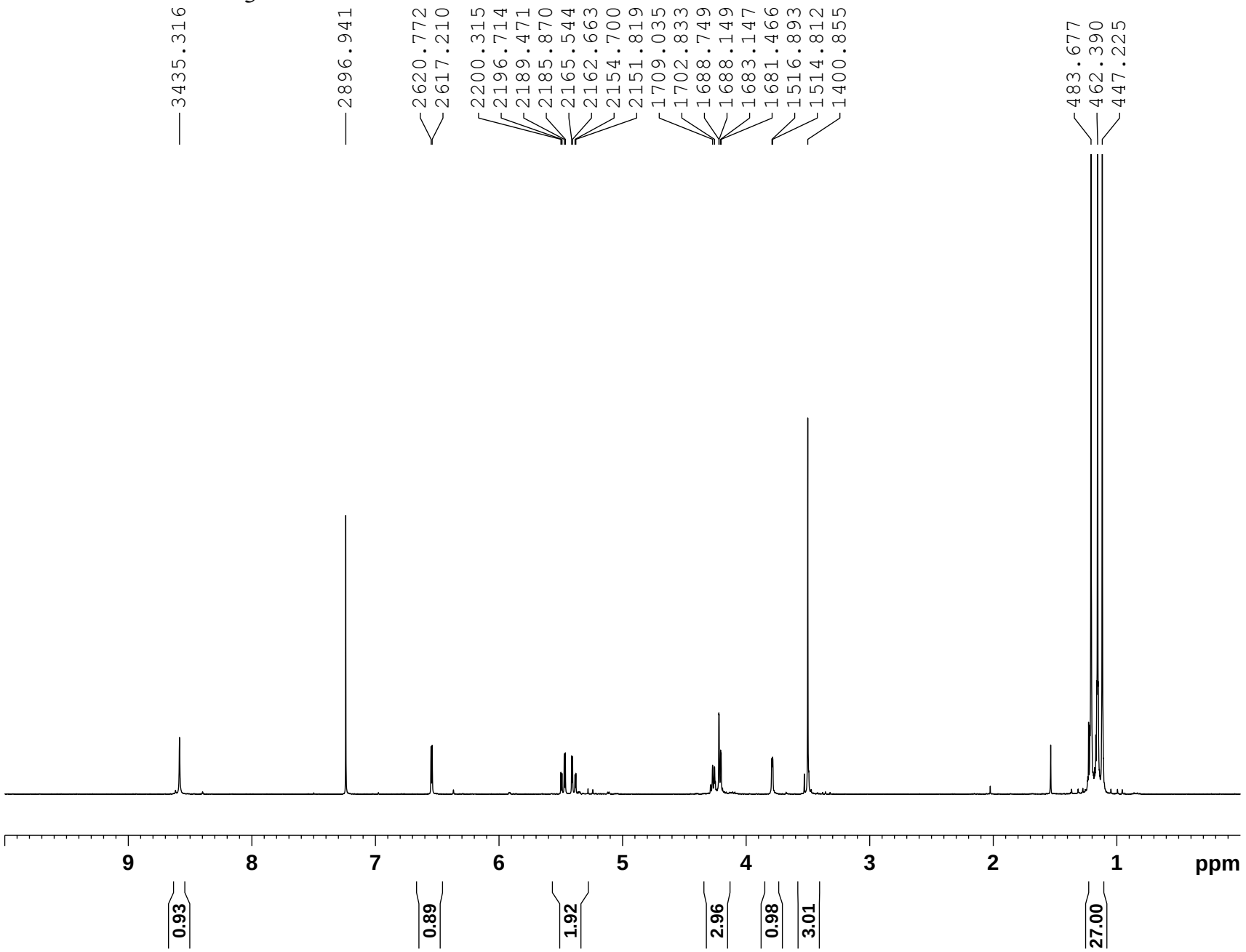
8, ^{1}H NMR (DMSO-d_6, 295 K, 400 MHz)



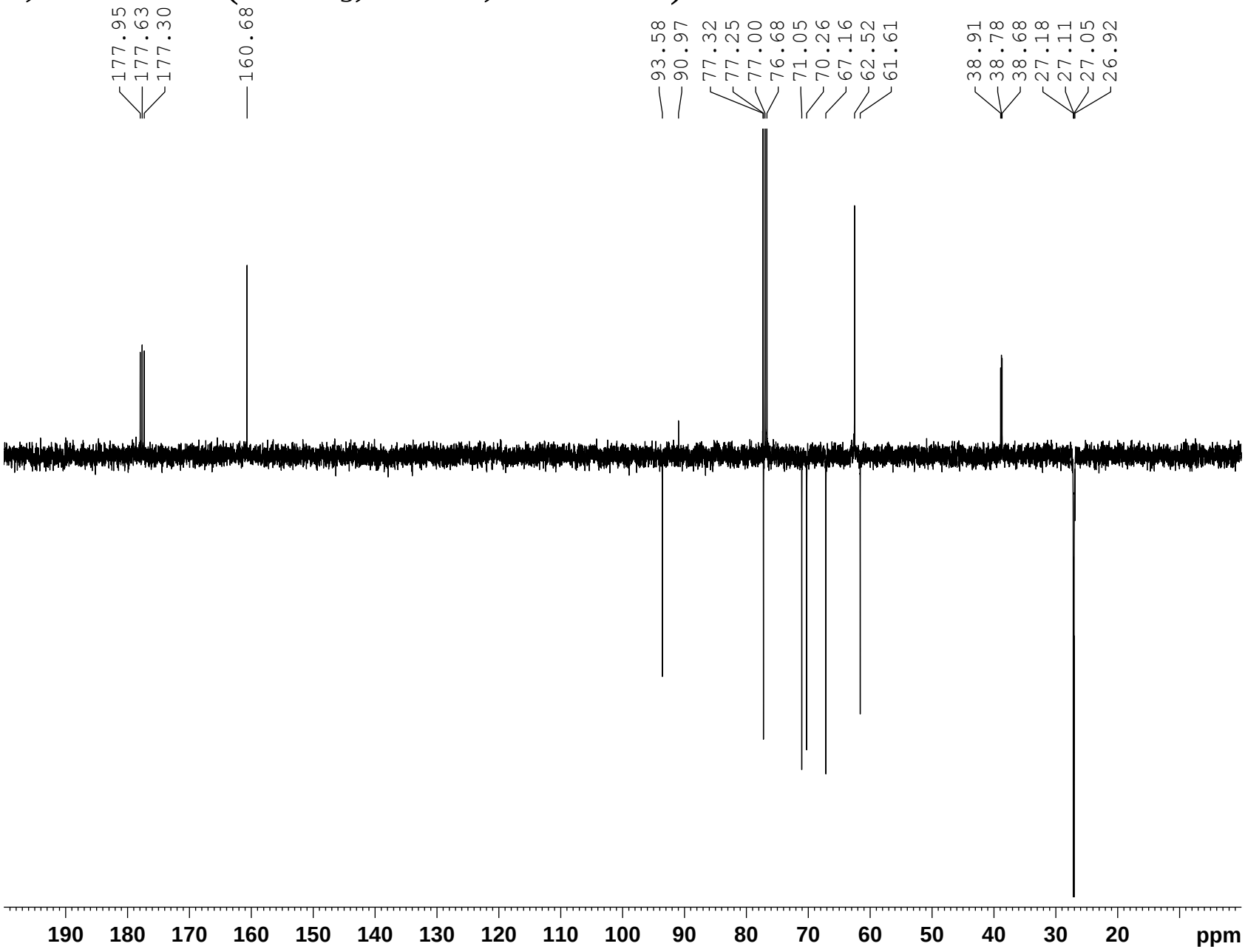
8, ^{13}C NMR (DMSO-d_6, 295 K, 100 MHz)



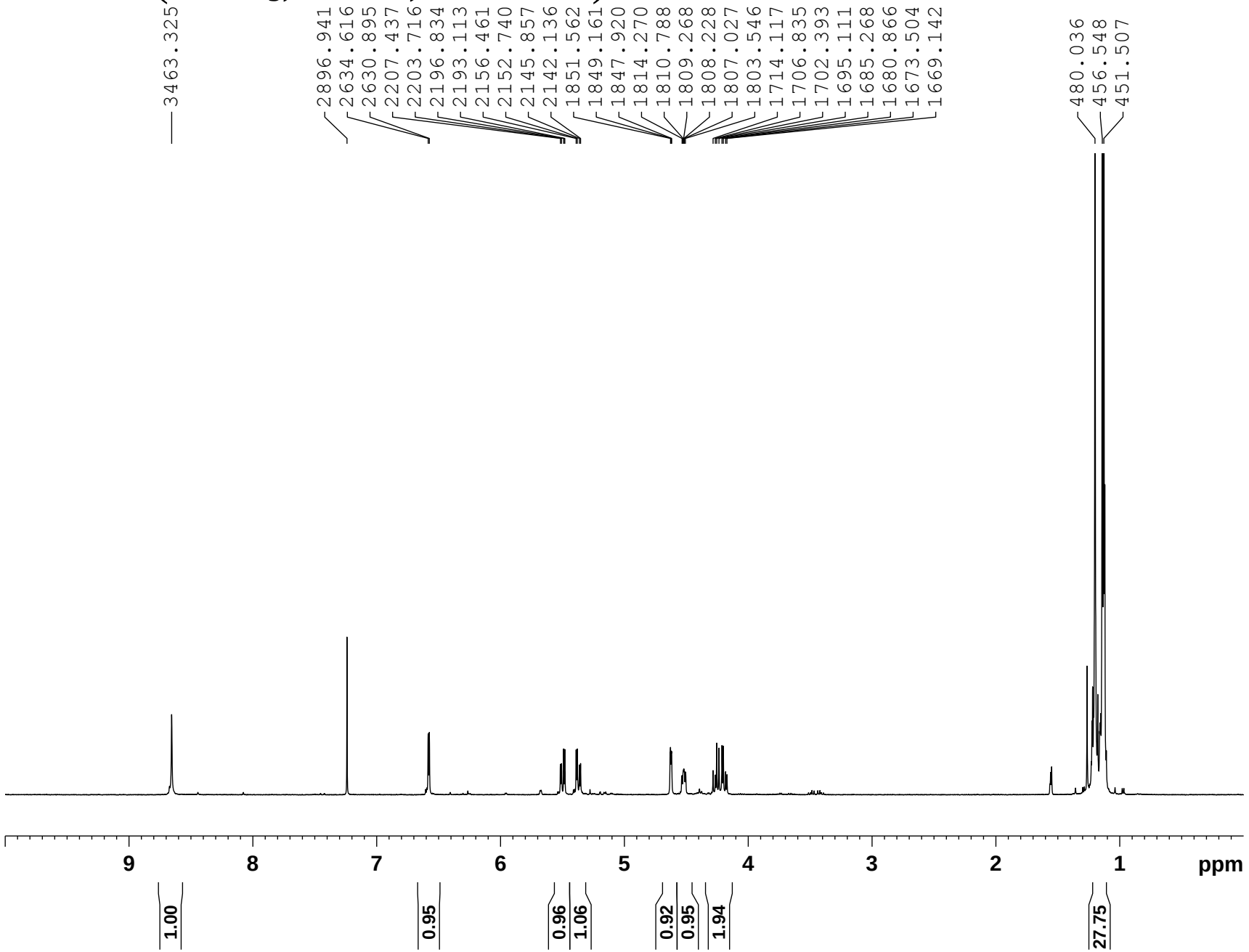
9, ^{1}H NMR ($CDCl_3$, 296 K, 400 MHz)



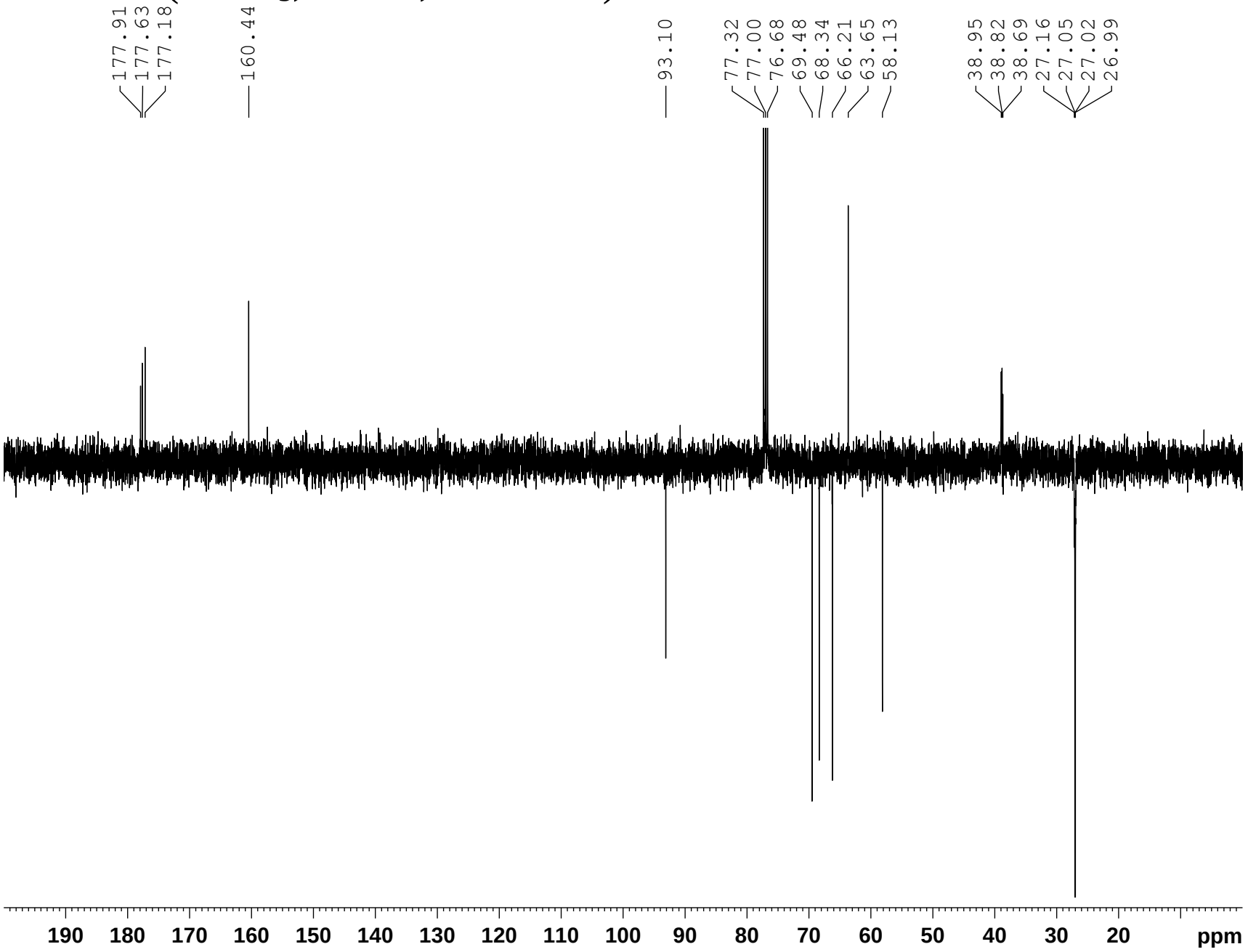
9, ^{13}C NMR ($CDCl_3$, 296 K, 100 MHz)



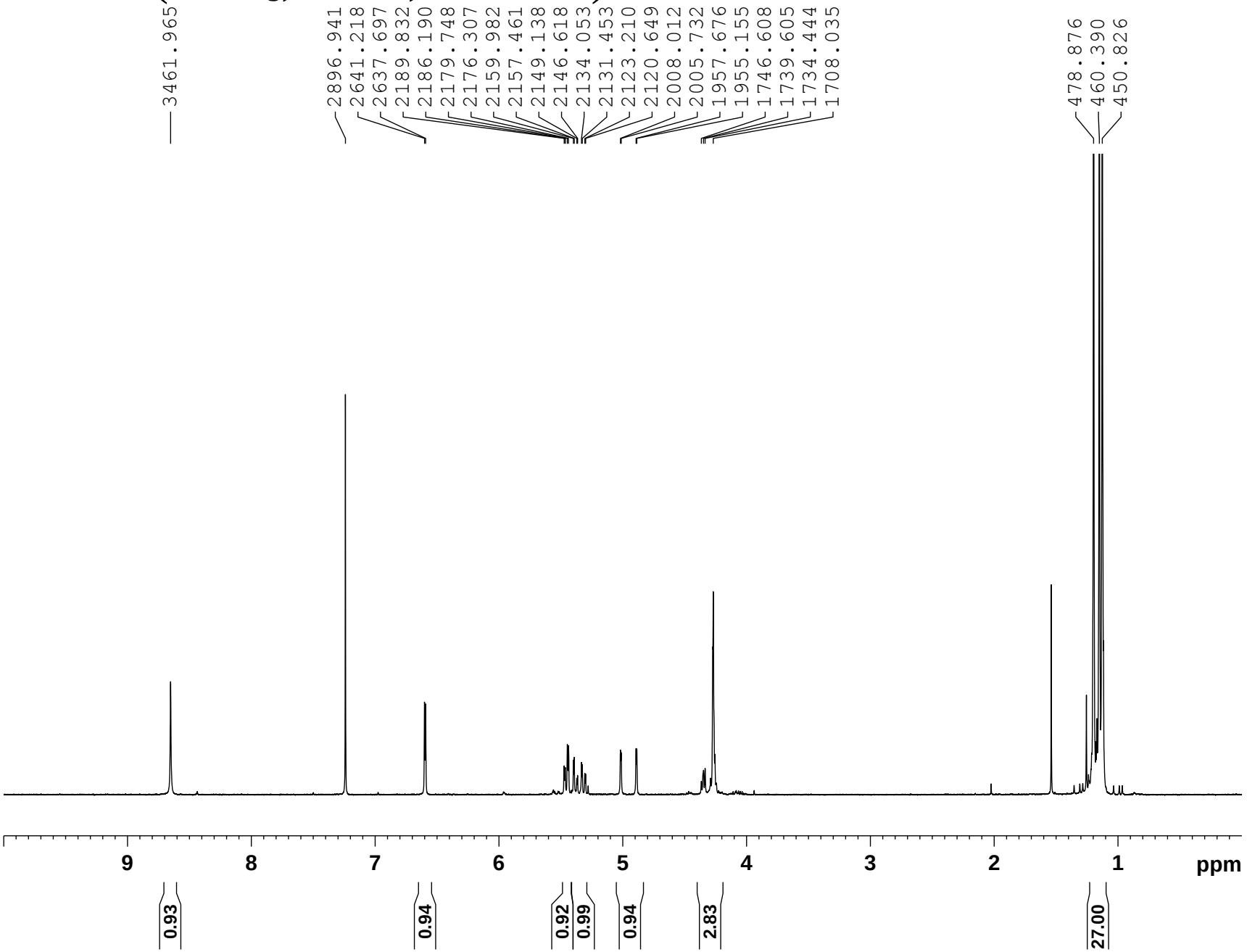
10, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



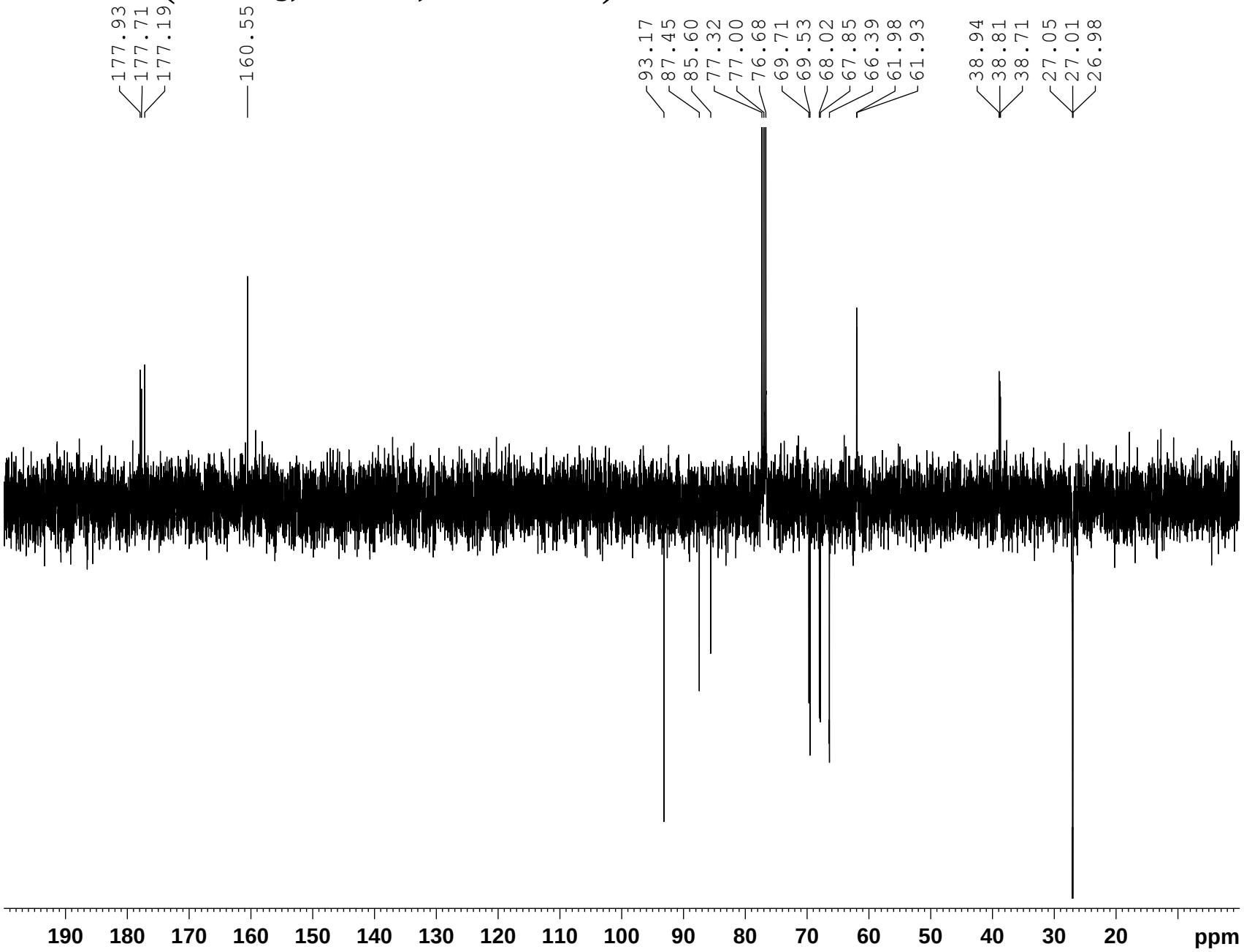
10, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



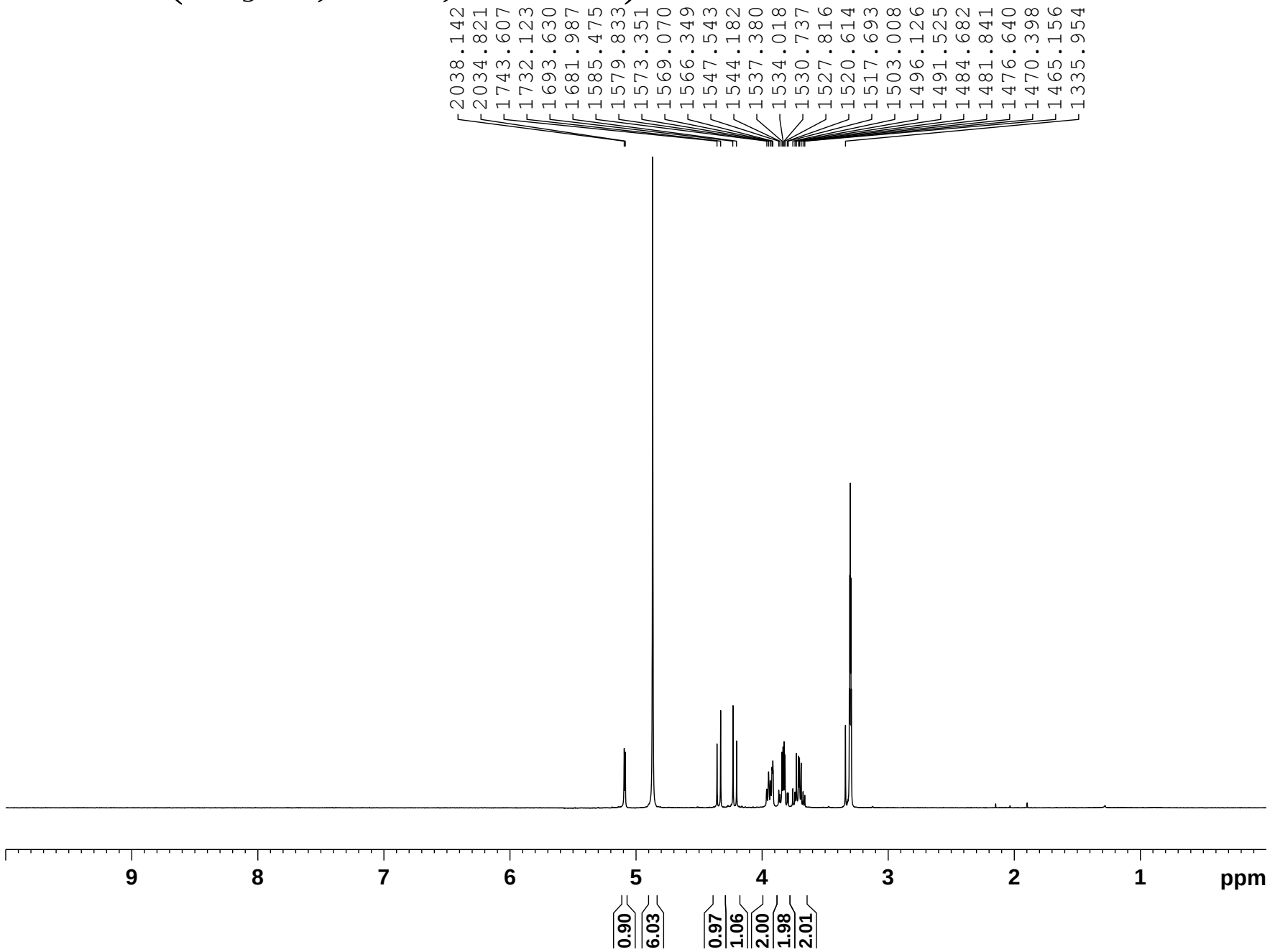
11, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



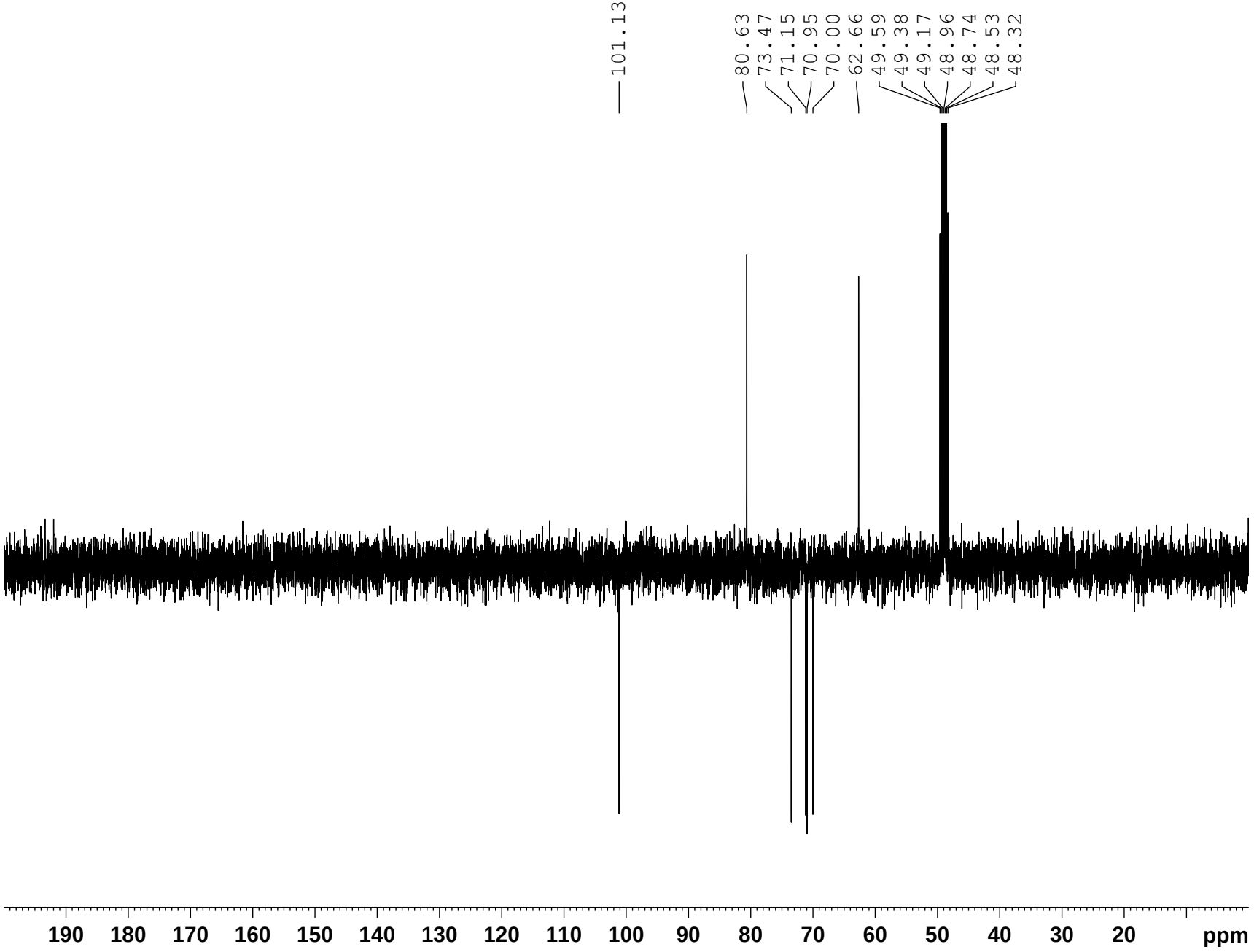
11, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



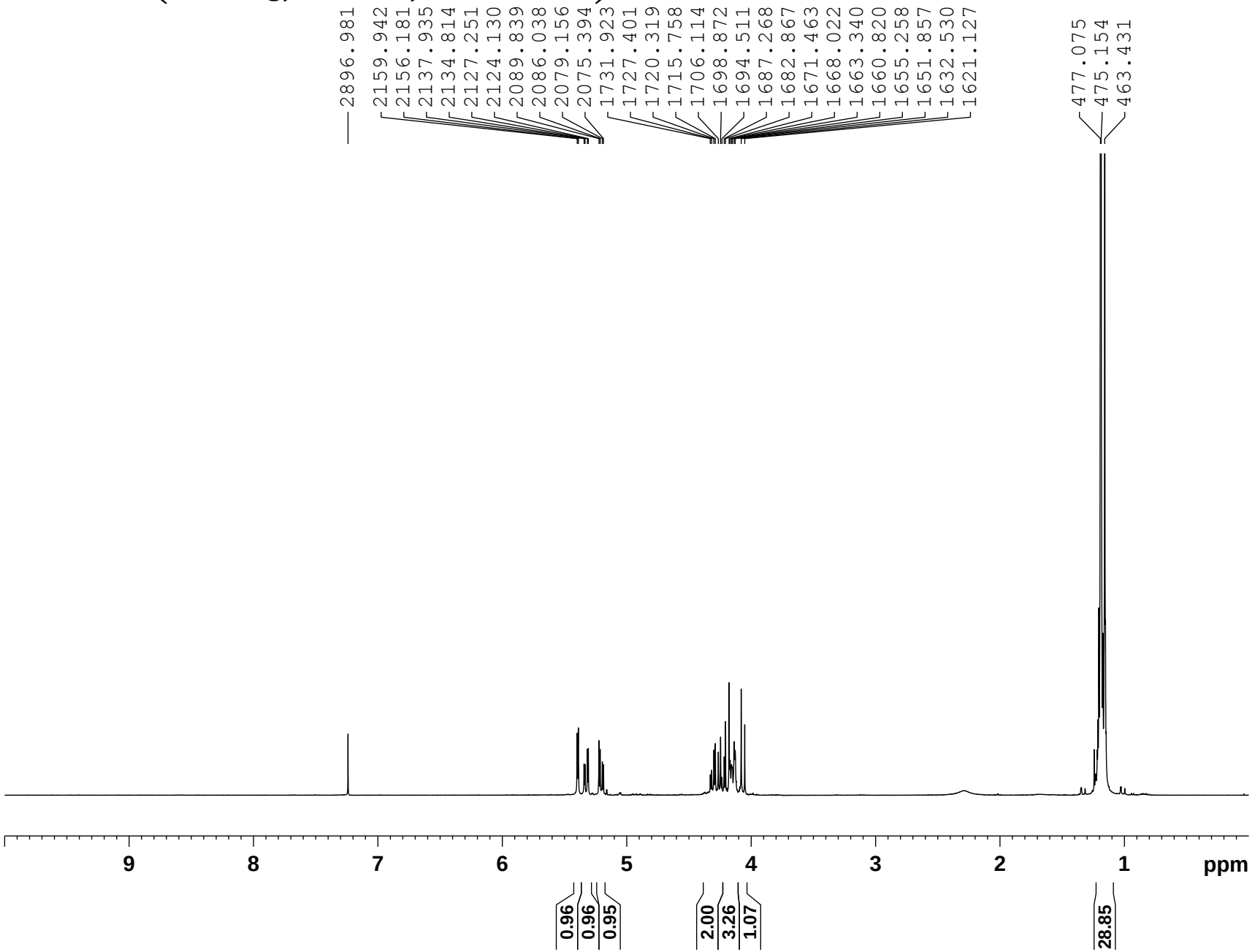
14, ^{1}H NMR (CD_3OD, 295 K, 400 MHz)



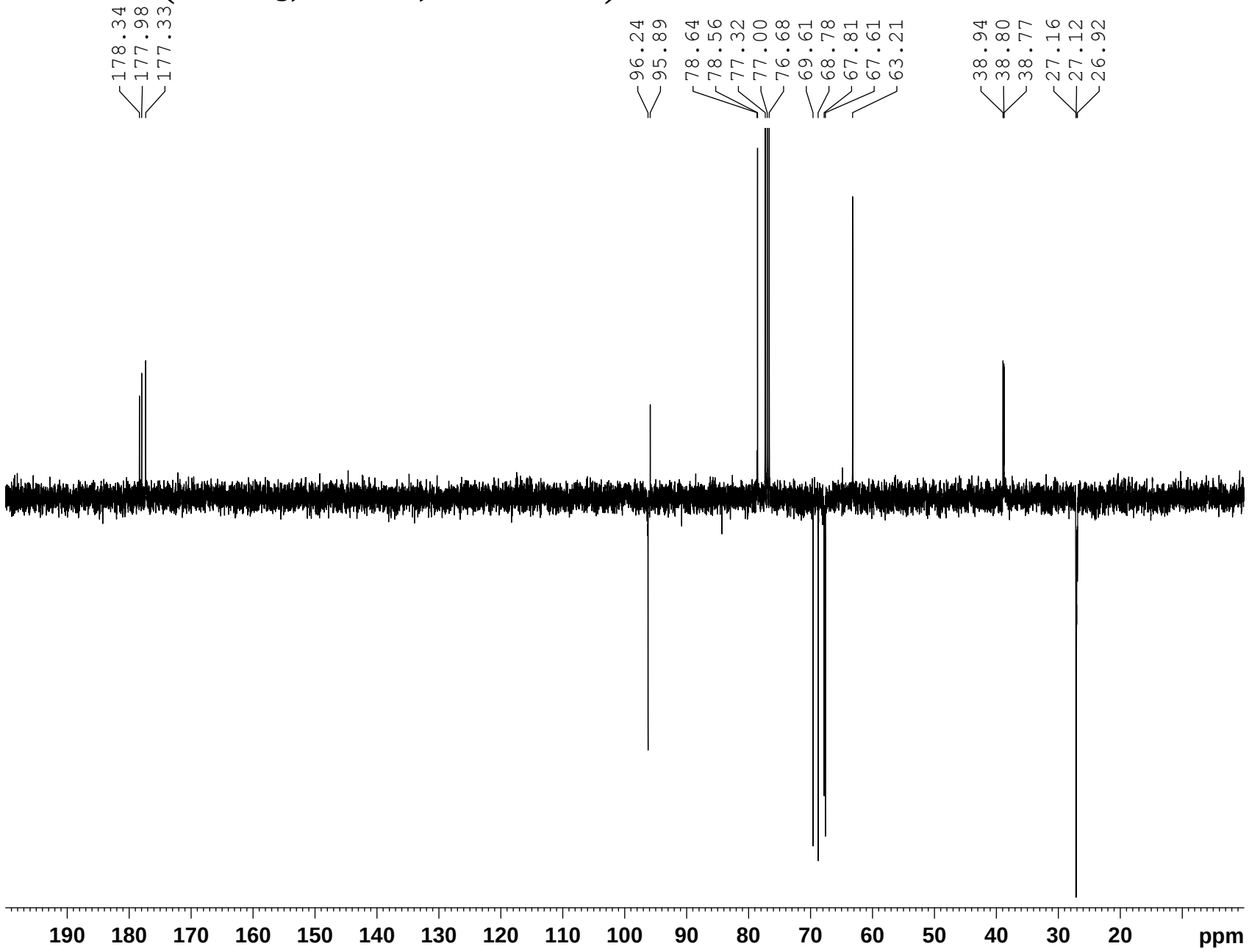
14, ^{13}C NMR (CD_3OD, 295 K, 100 MHz)



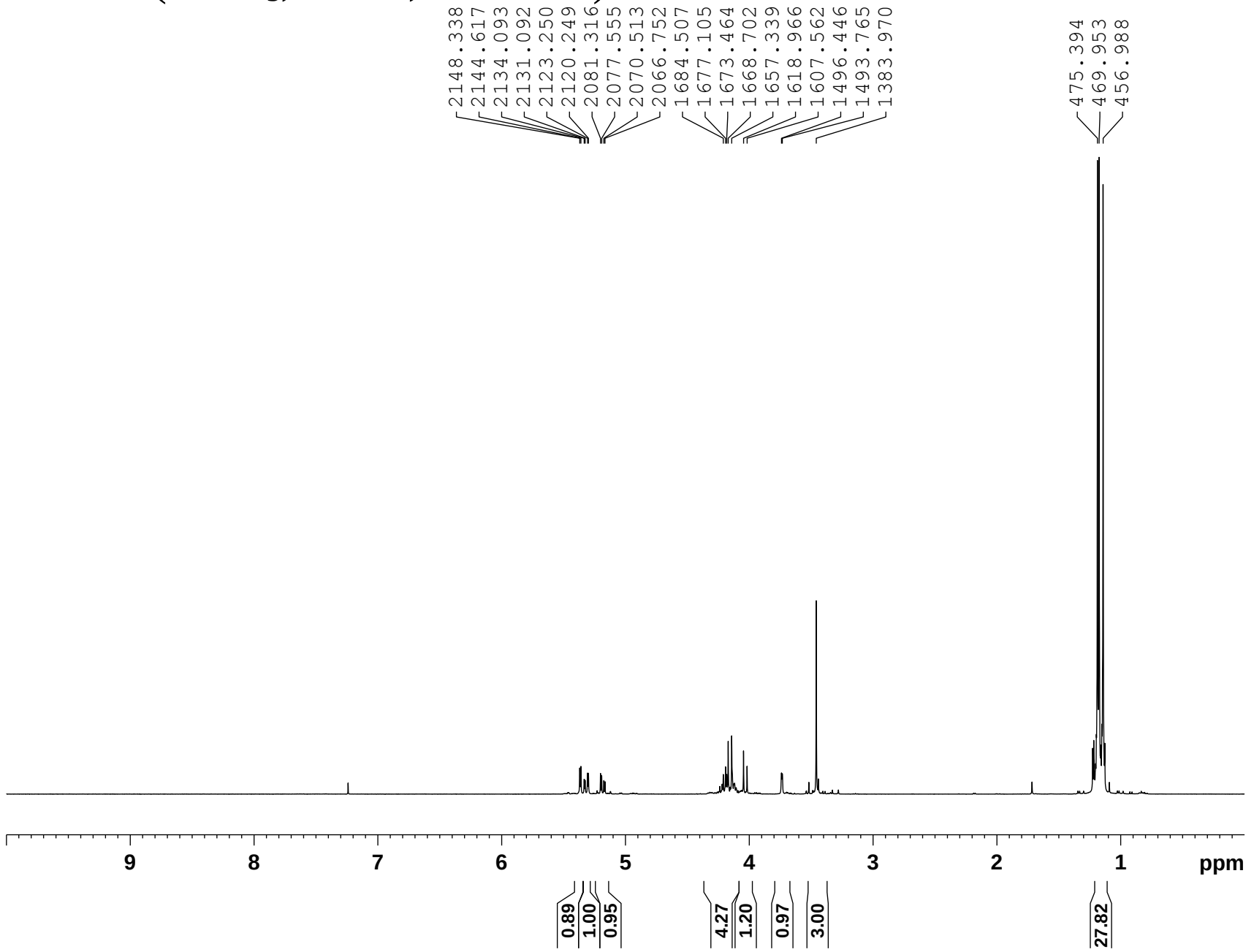
15, ^{1}H NMR ($CDCl_3$, 296 K, 400 MHz)



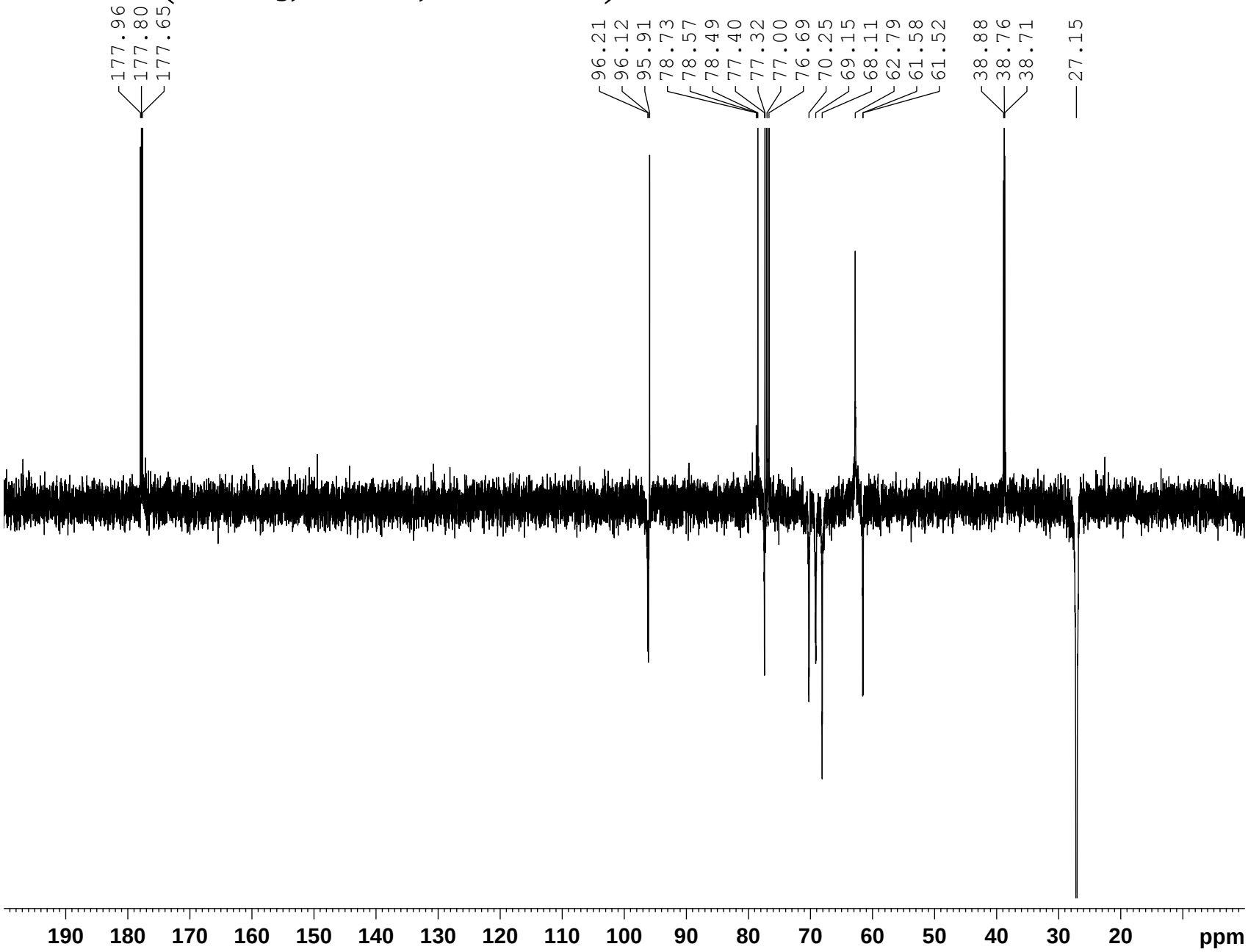
15, ^{13}C NMR ($CDCl_3$, 296 K, 100 MHz)



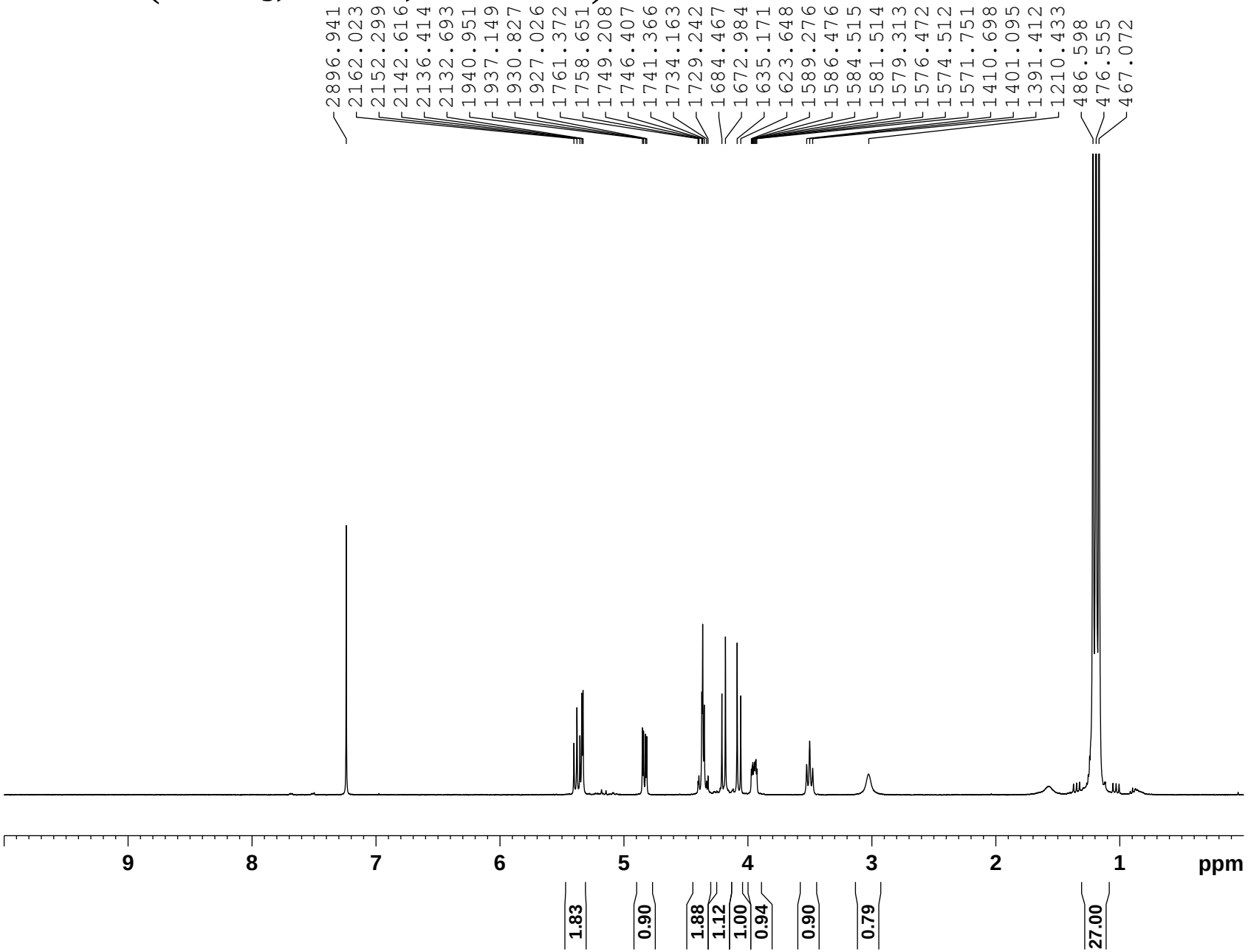
16, ^{1}H NMR ($CDCl_3$, 296 K, 400 MHz)



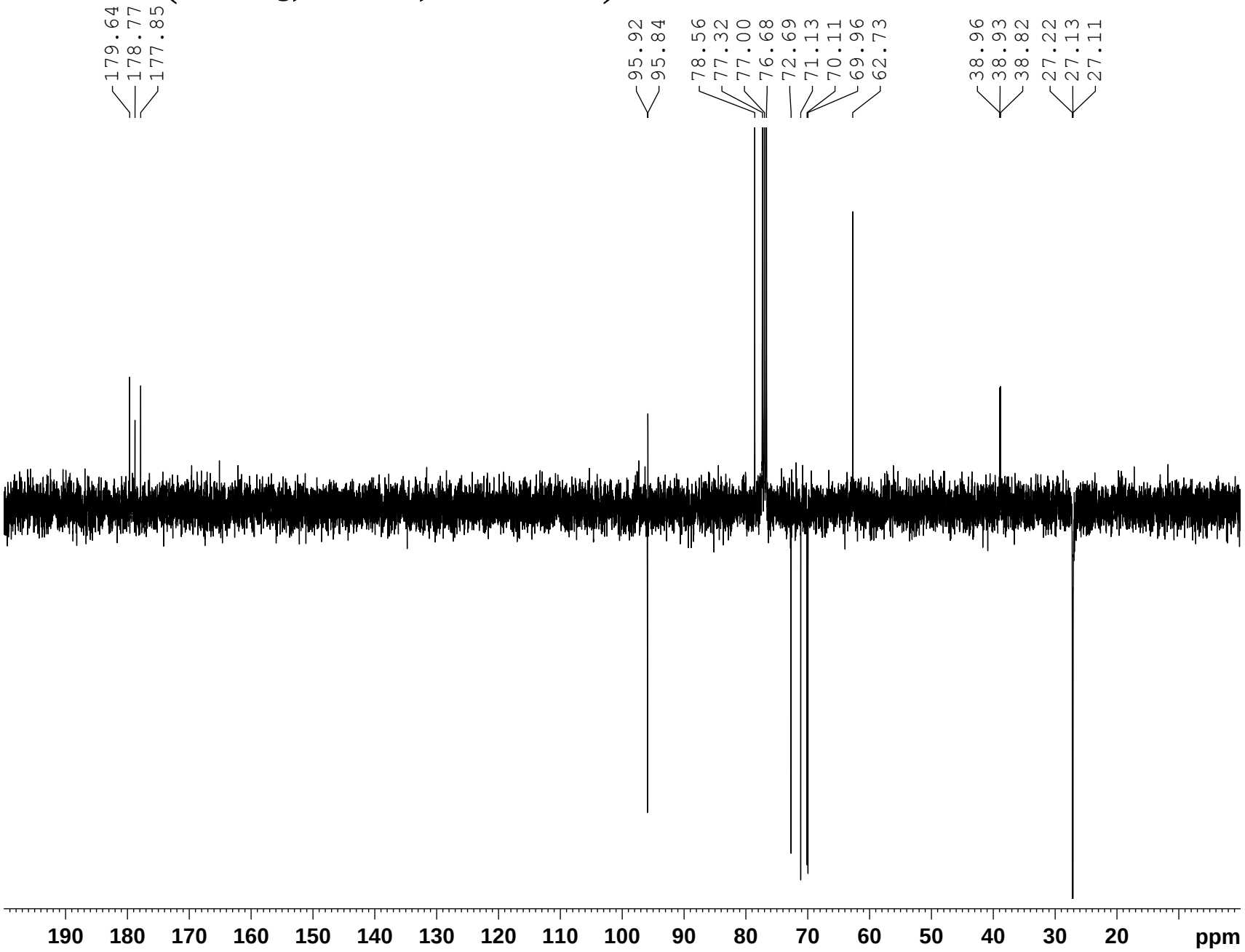
16, ^{13}C NMR ($CDCl_3$, 296 K, 100 MHz)



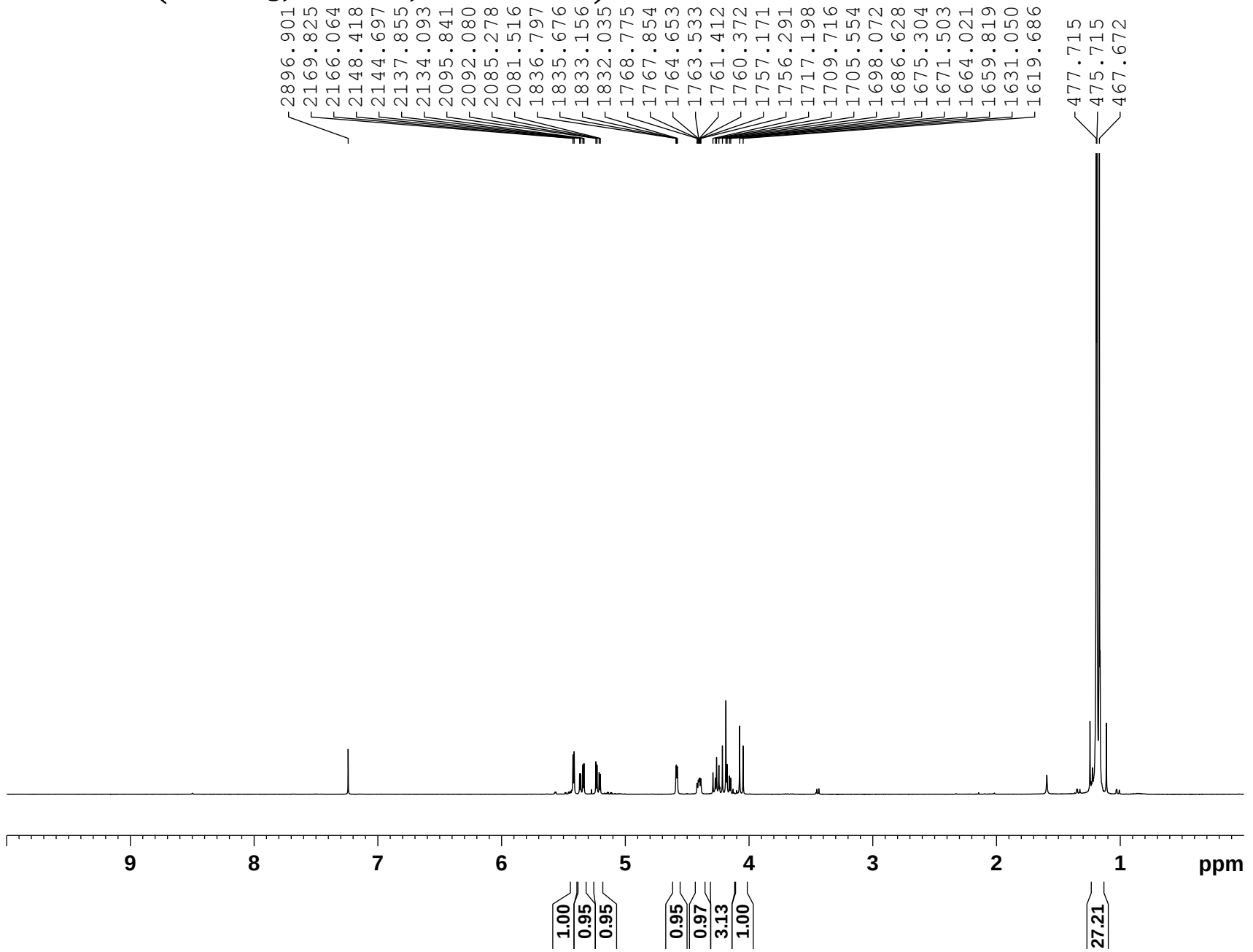
17, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



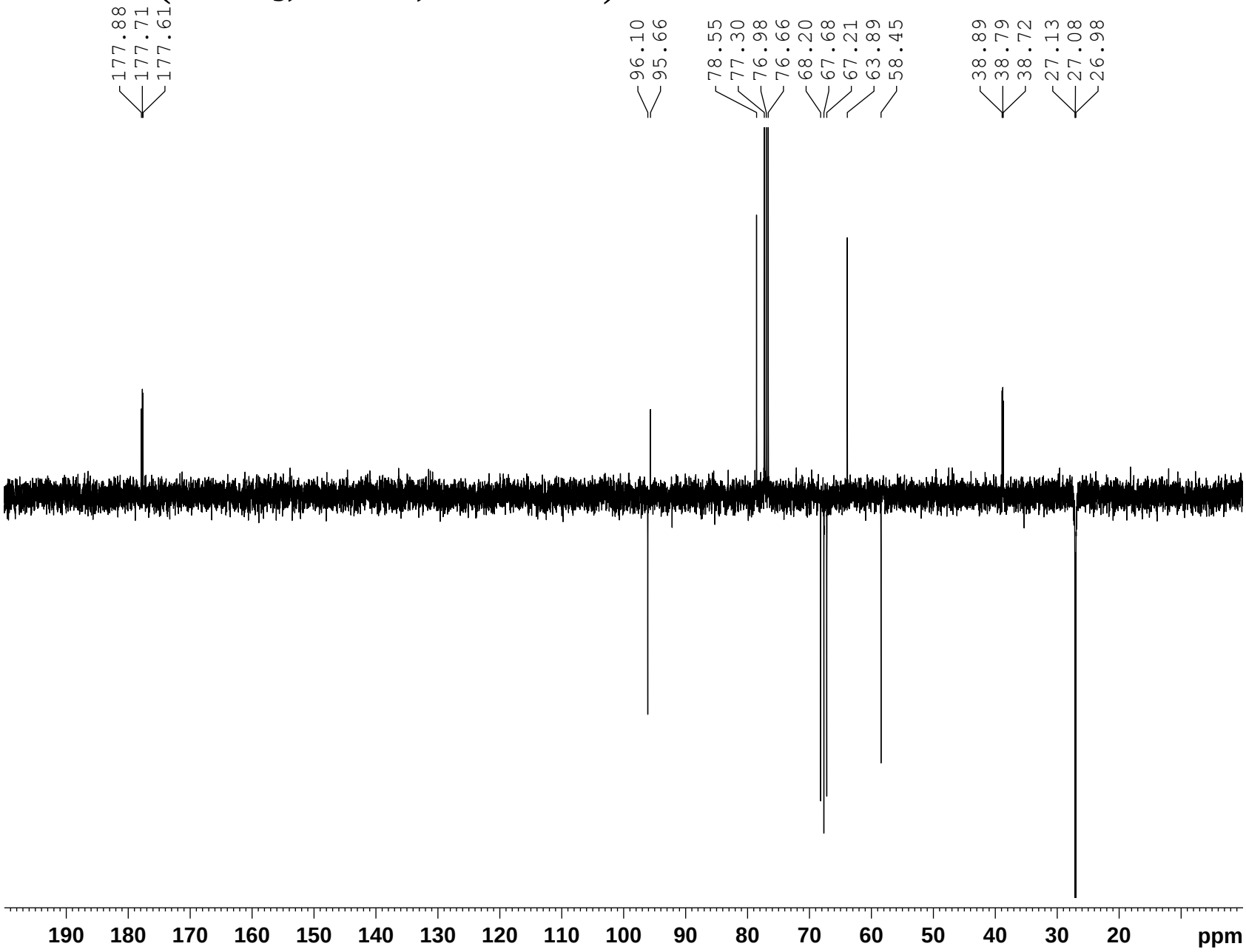
17, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



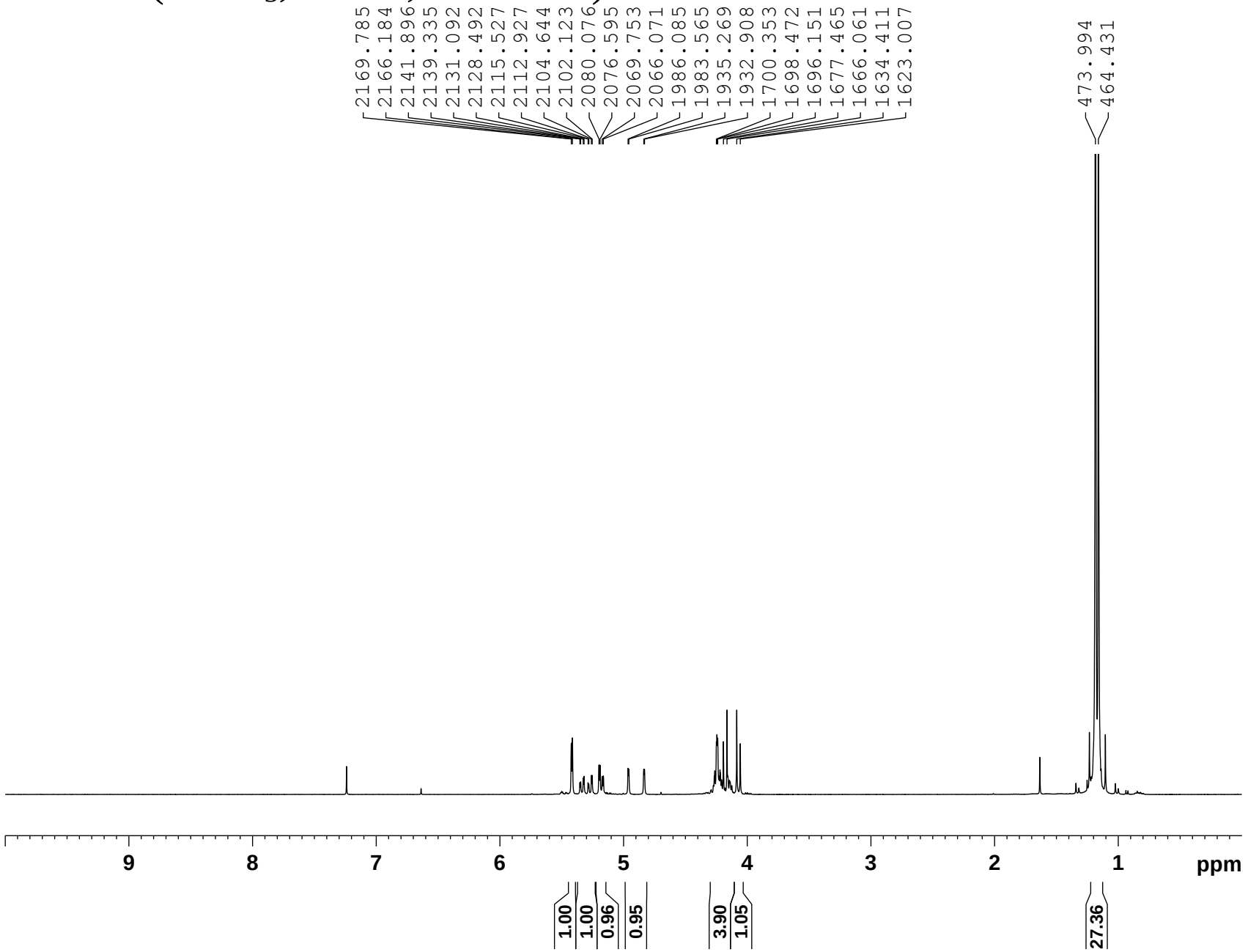
18, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



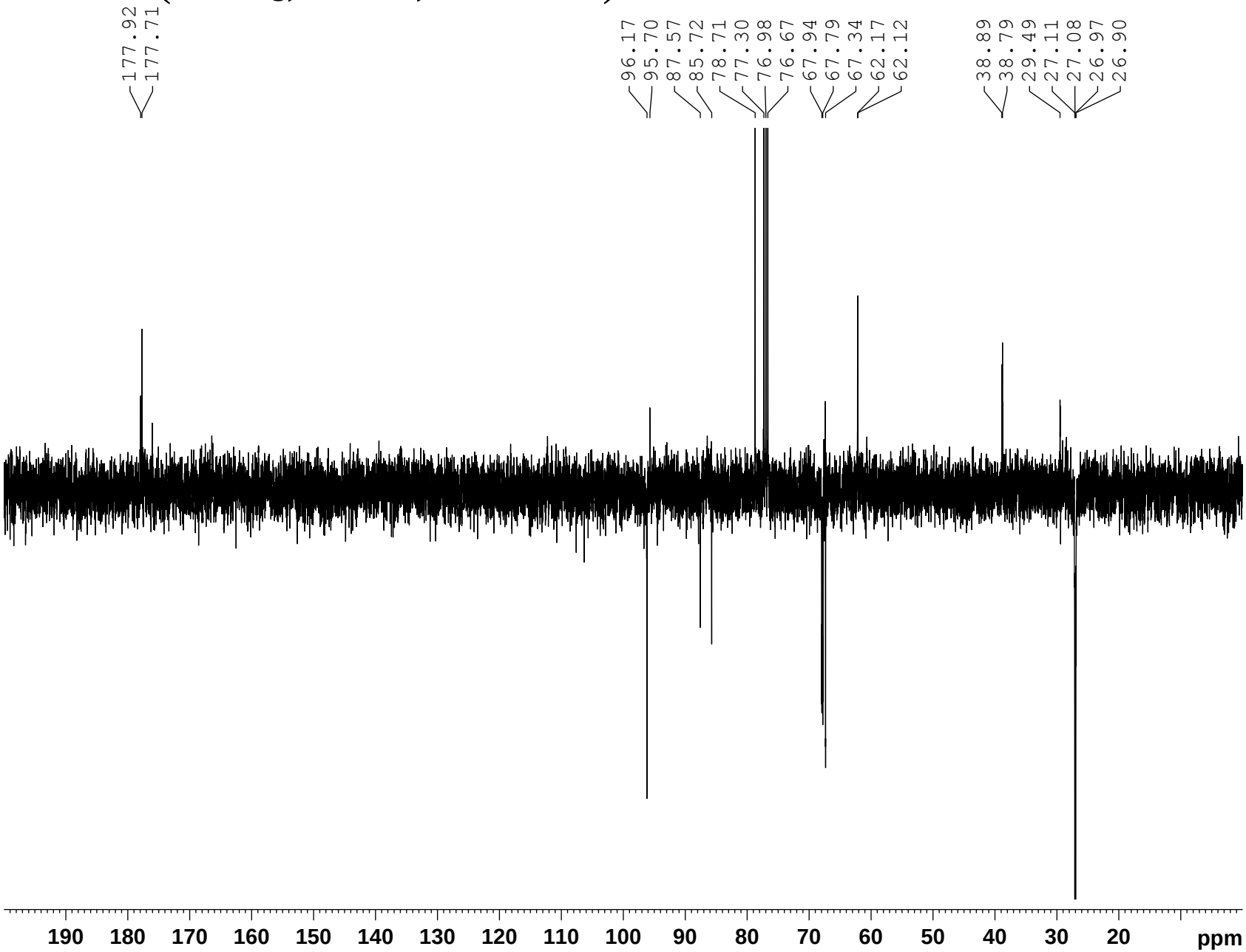
18, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



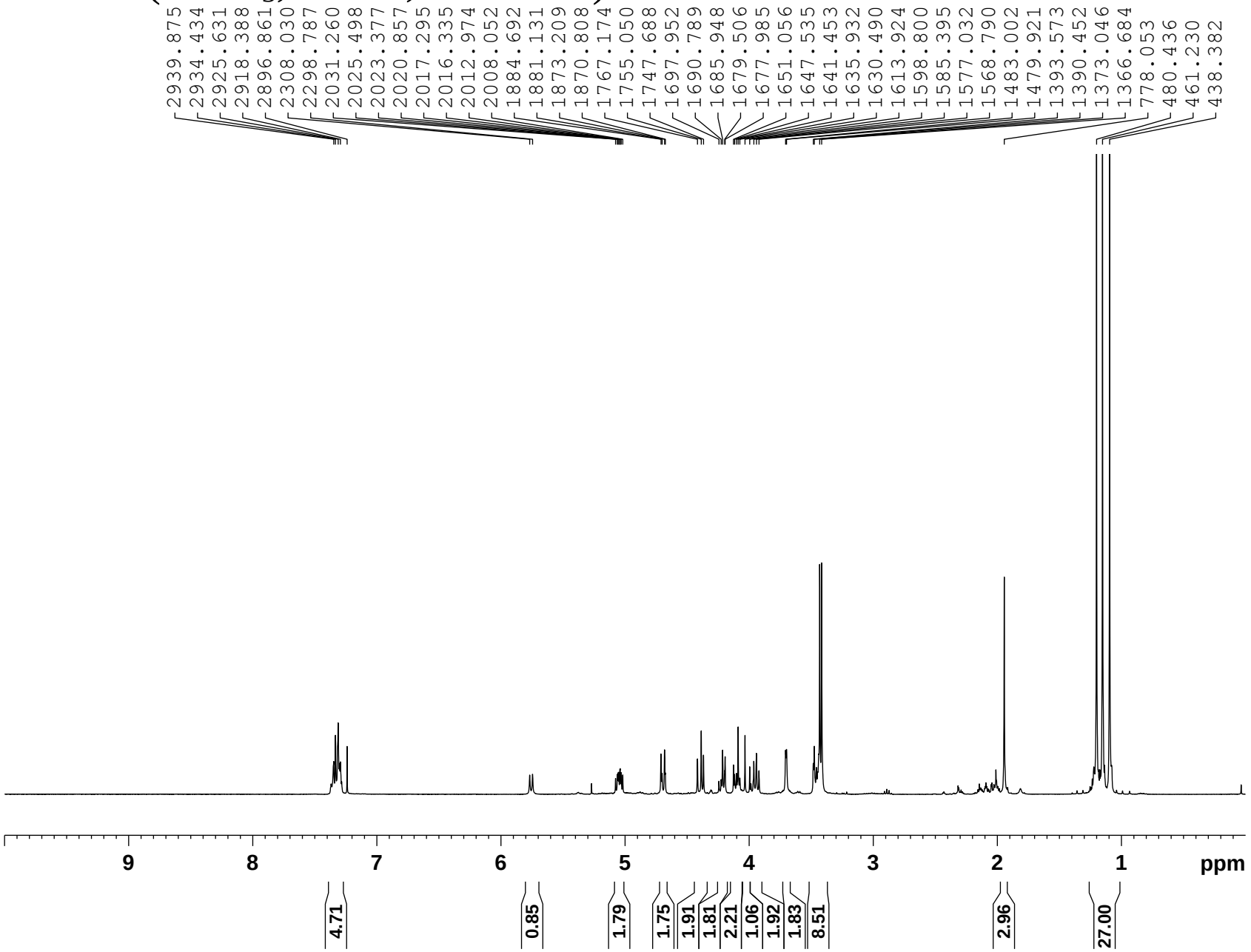
19, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



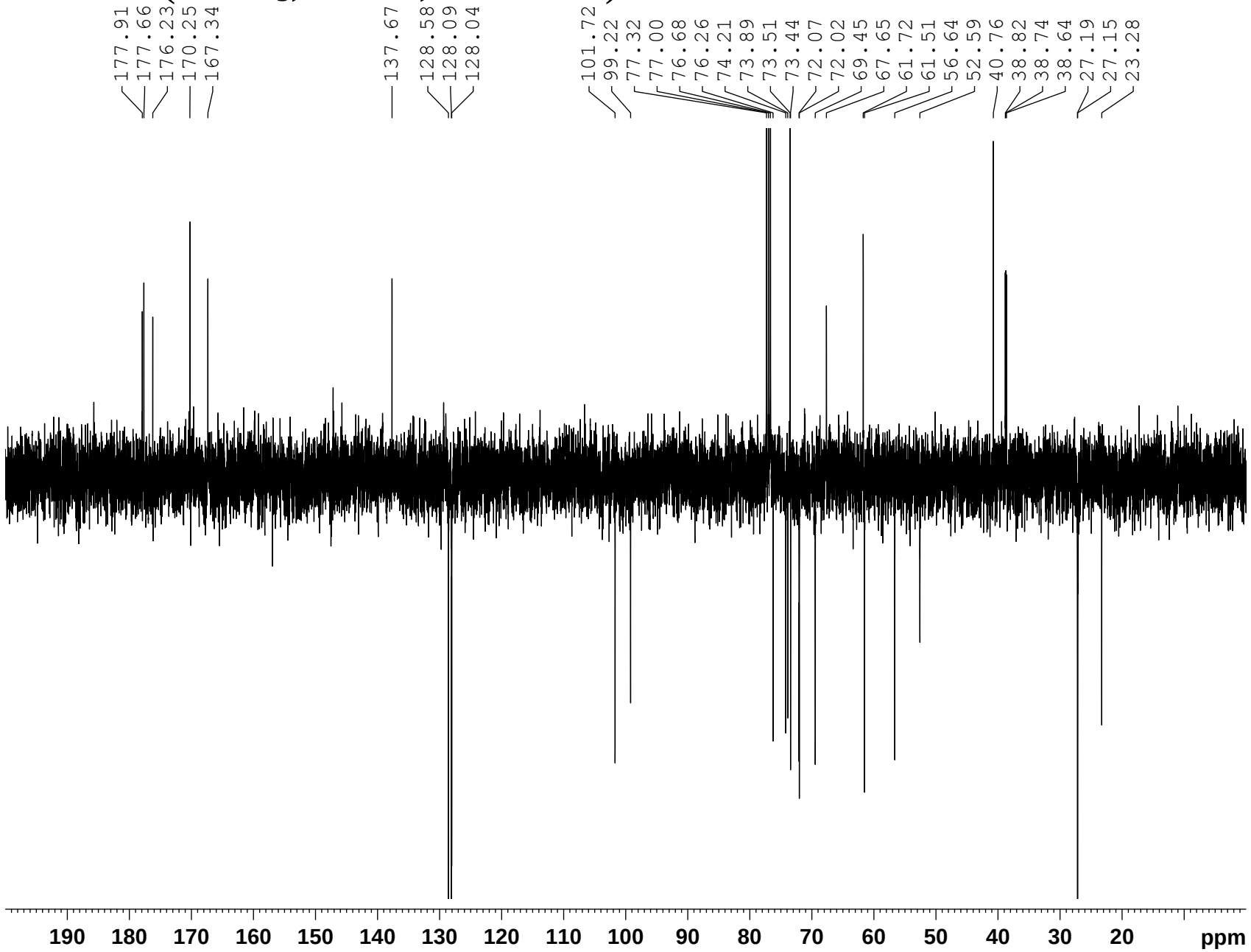
19, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



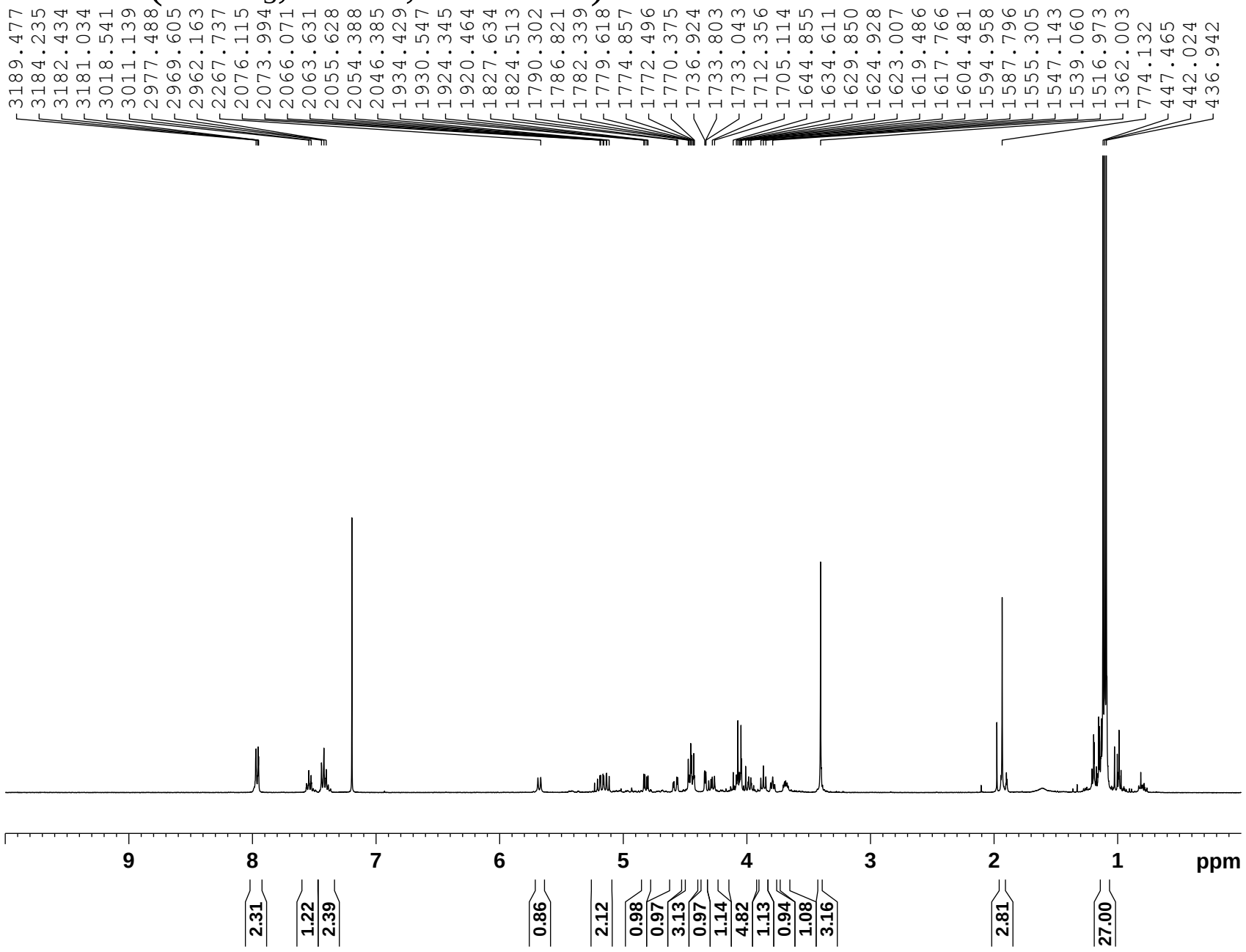
20, ^{1}H NMR ($CDCl_3$, 296 K, 400 MHz)



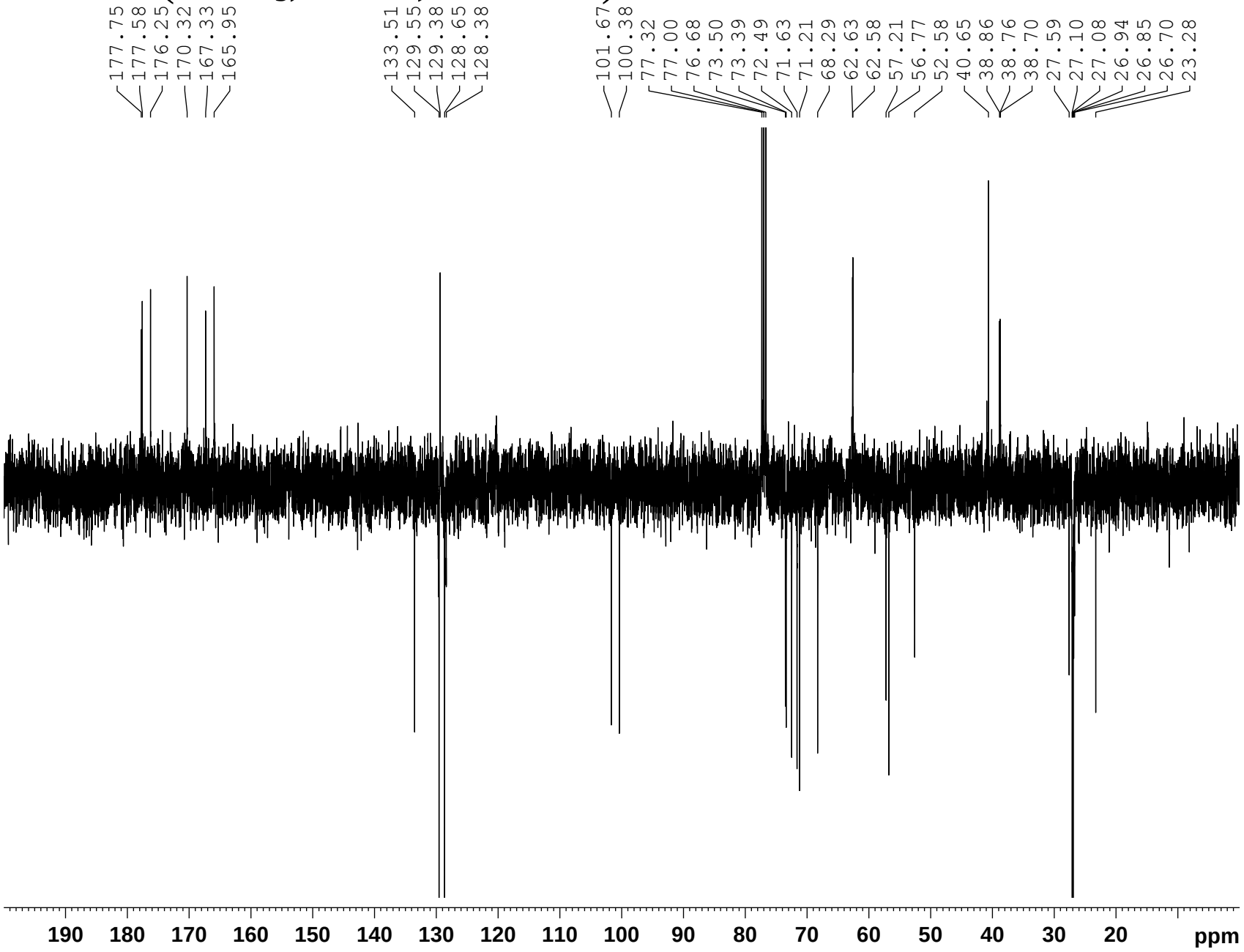
20, ^{13}C NMR ($CDCl_3$, 296 K, 100 MHz)



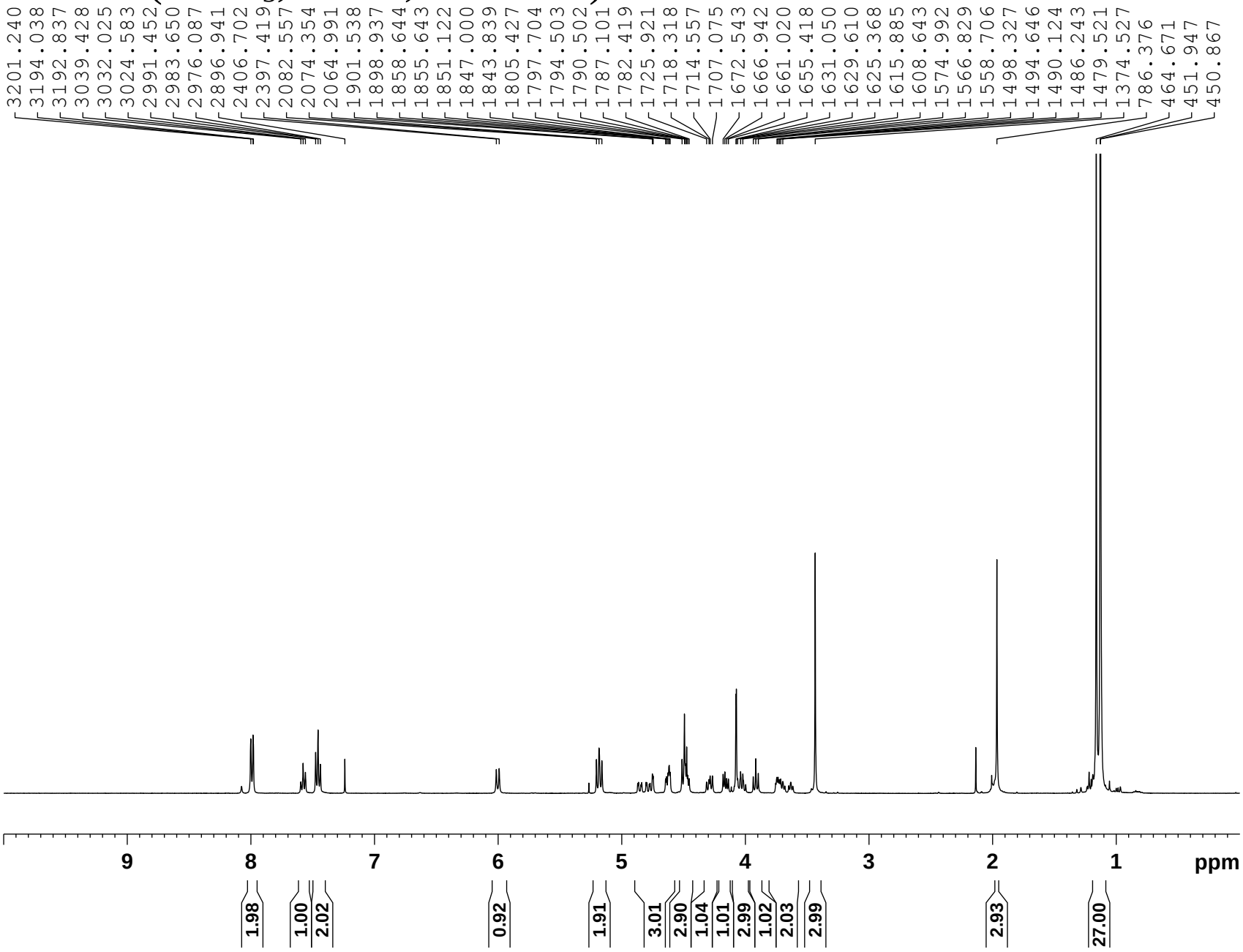
21, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



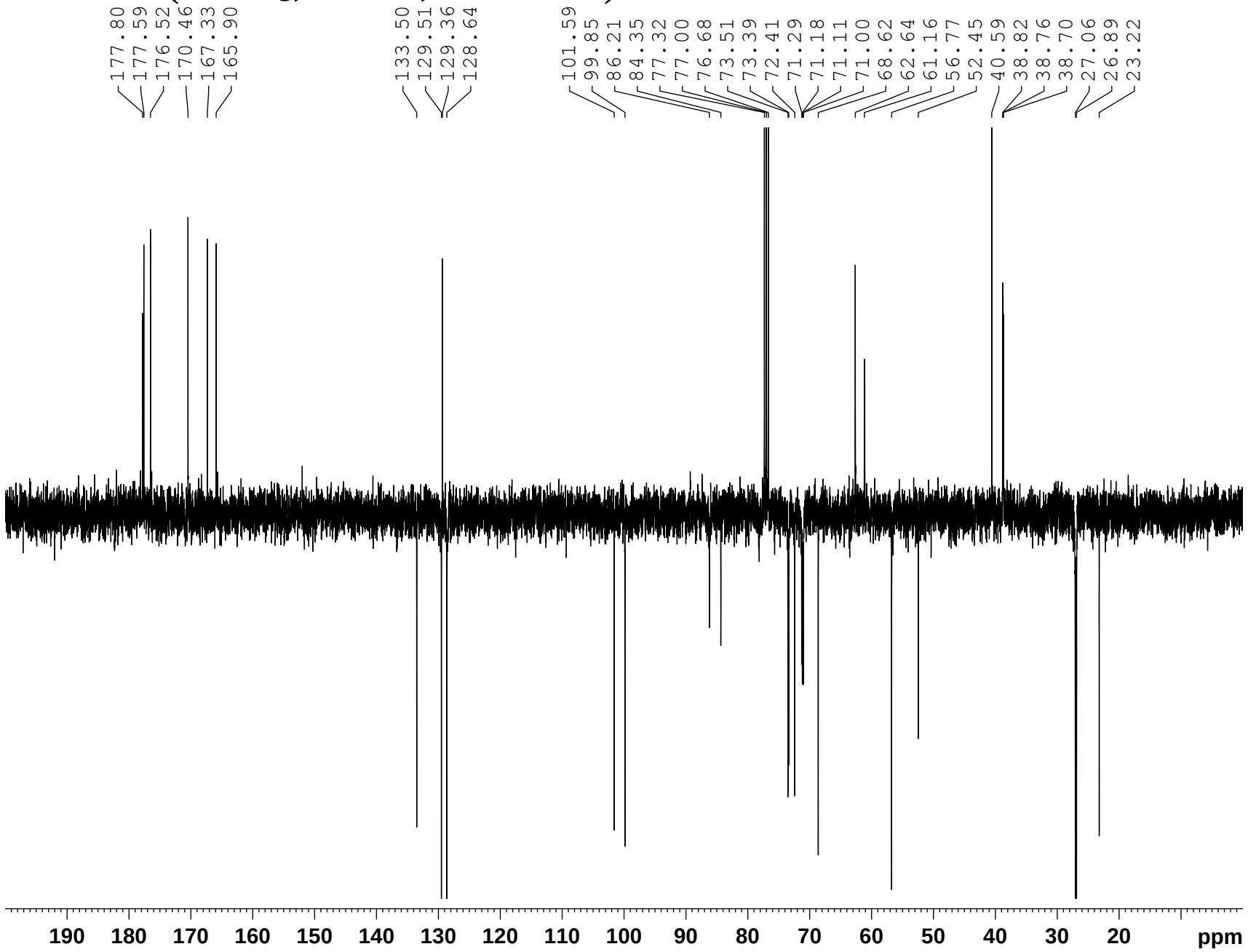
21, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



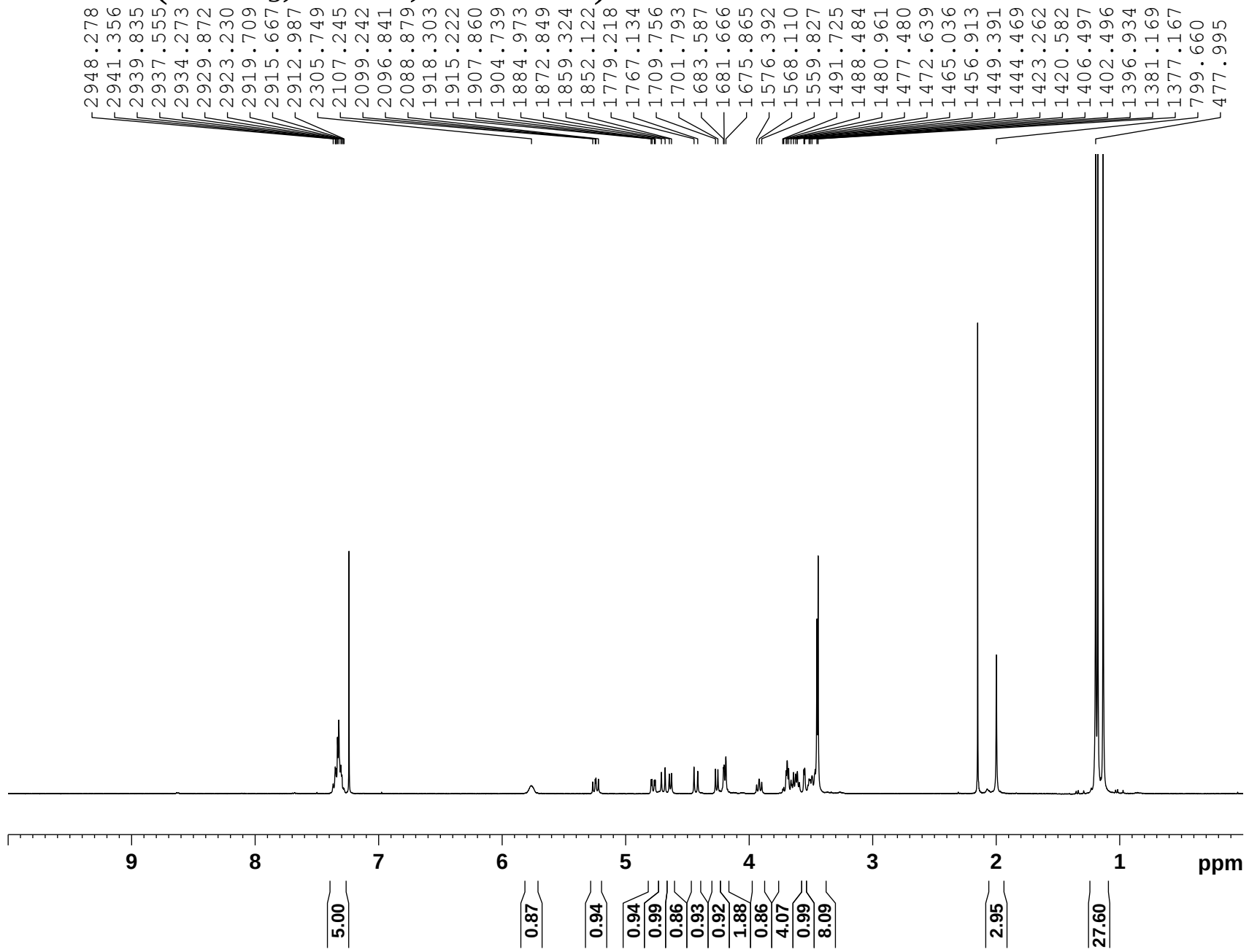
22, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



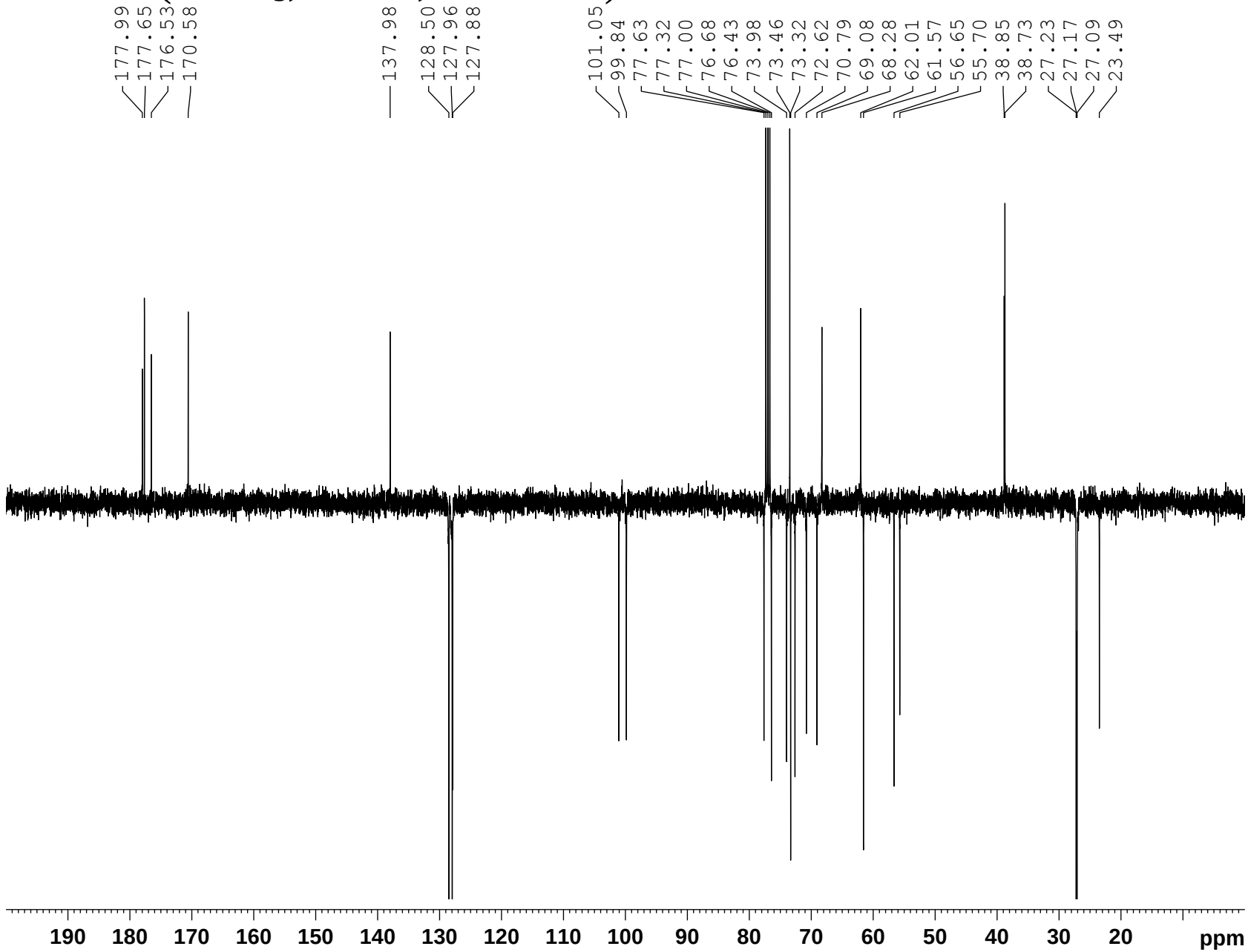
22, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



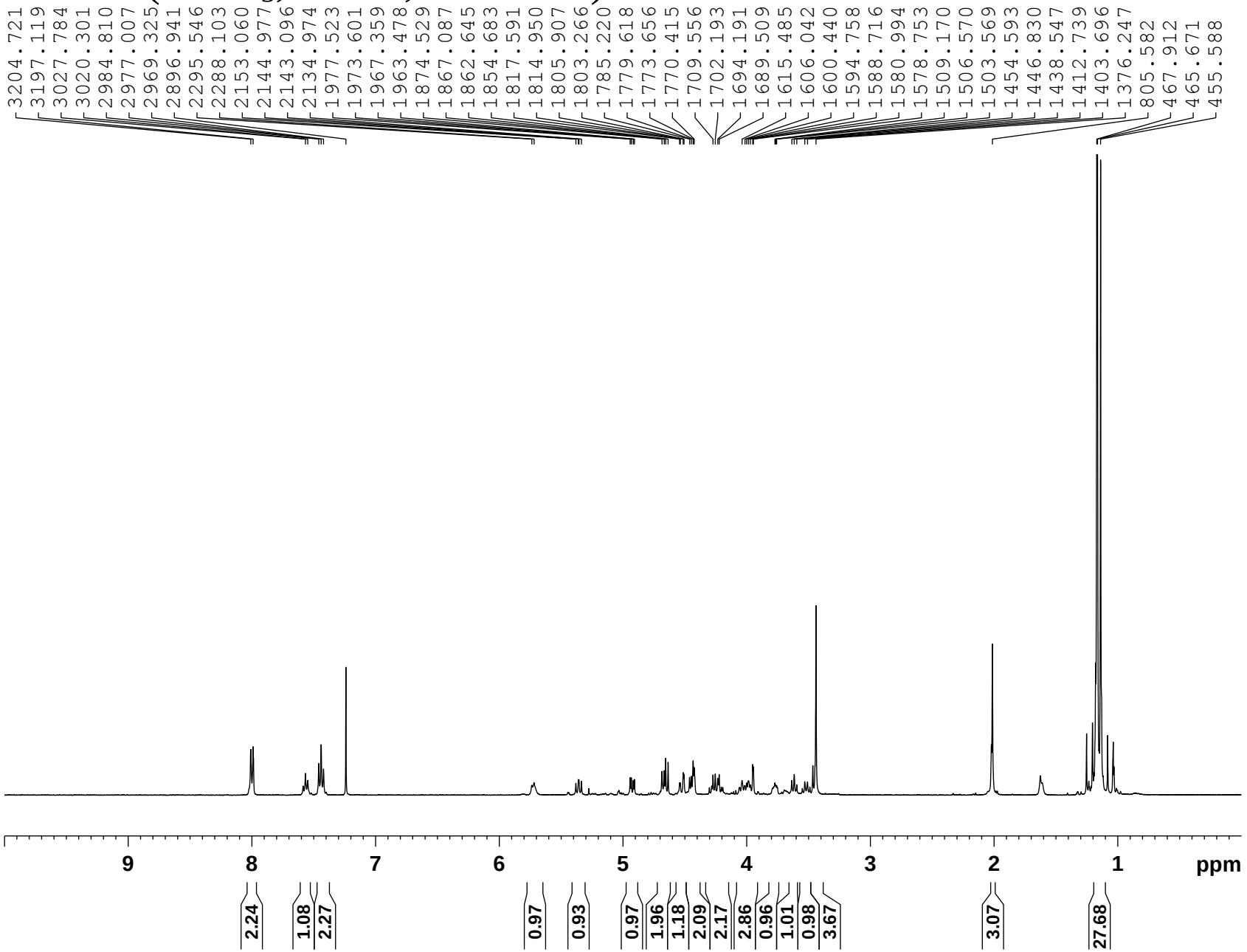
23, ^{1}H NMR ($CDCl_3$, 296 K, 400 MHz)



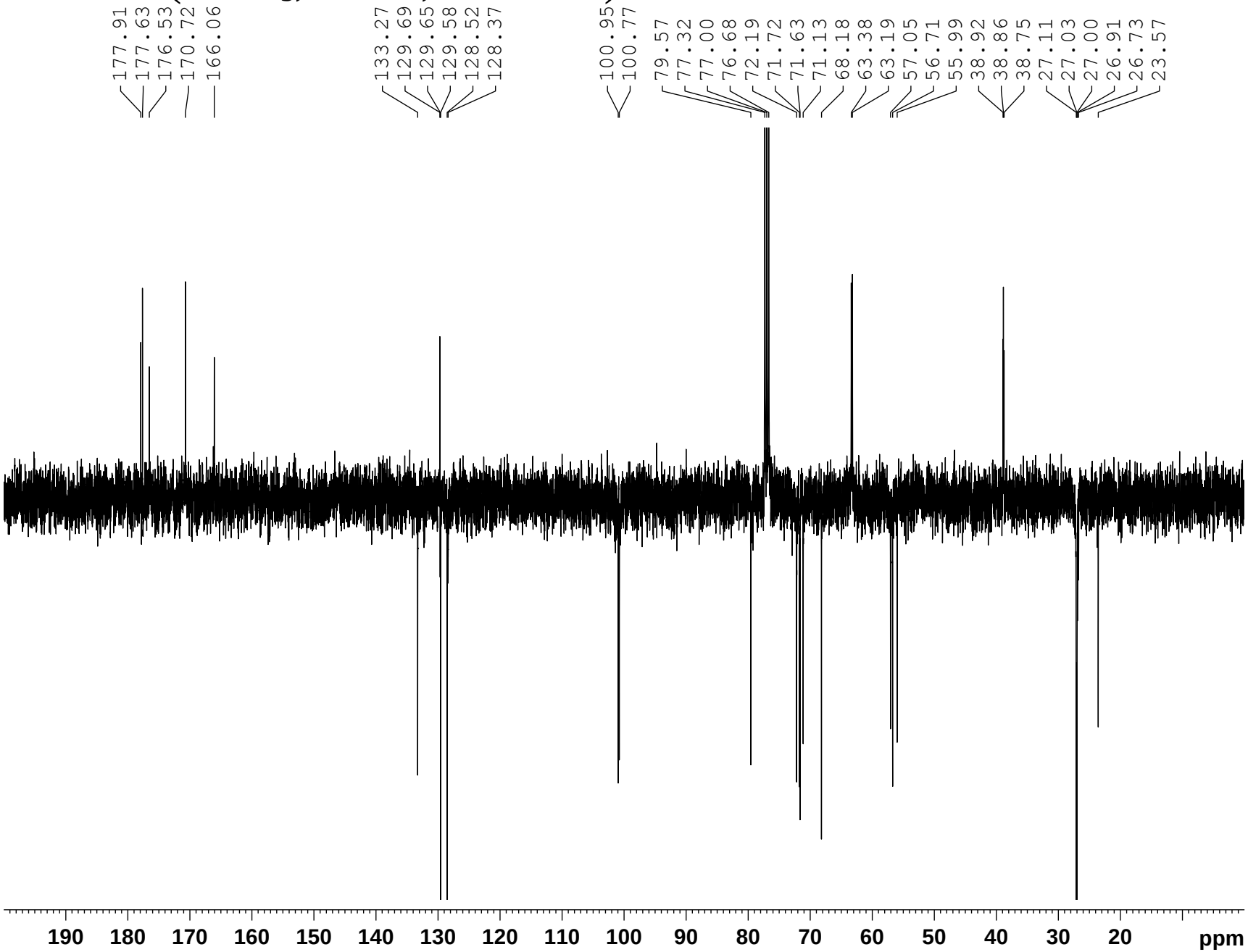
23, ^{13}C NMR ($CDCl_3$, 296 K, 100 MHz)



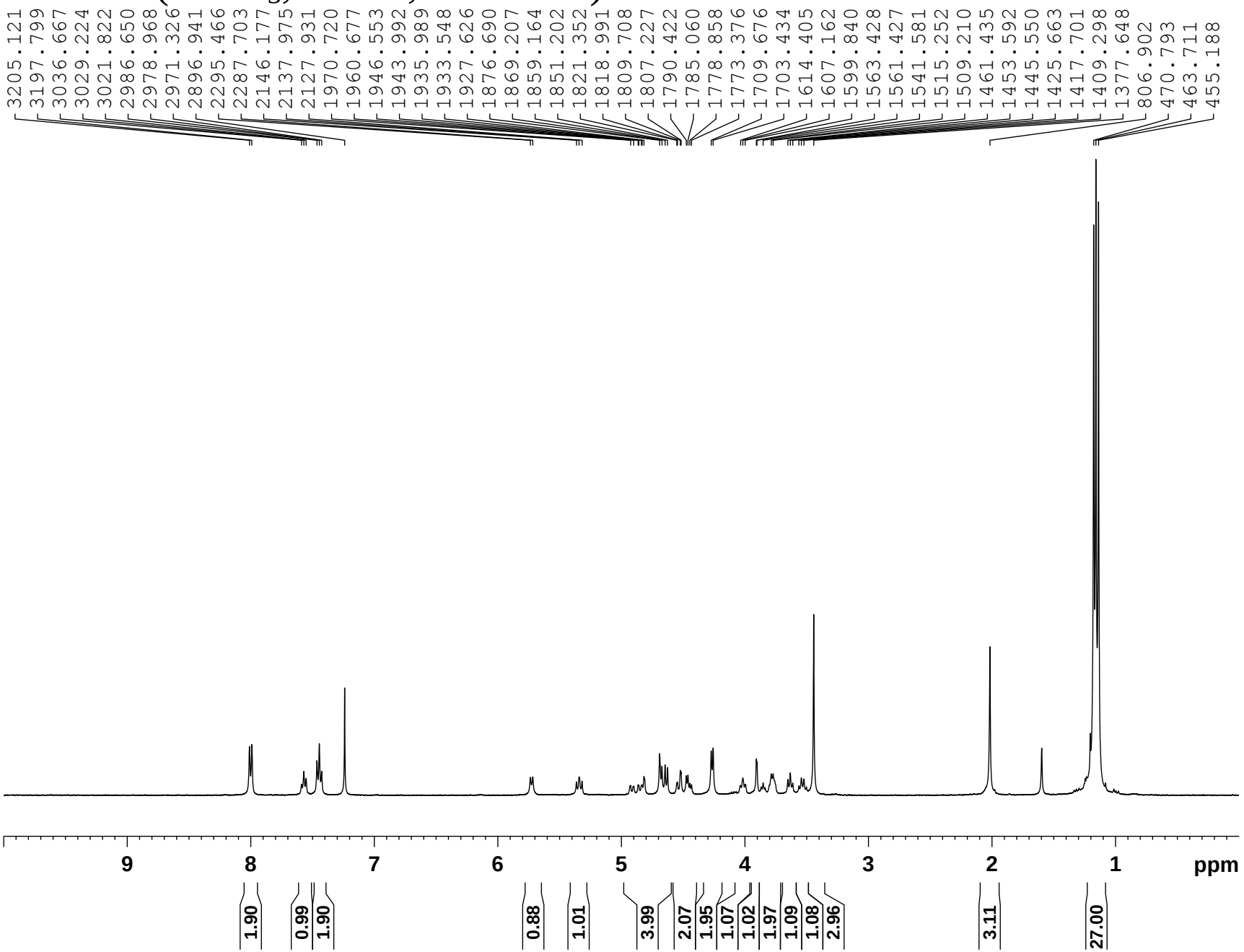
24, ^{1}H NMR ($CDCl_3$, 300 K, 400 MHz)



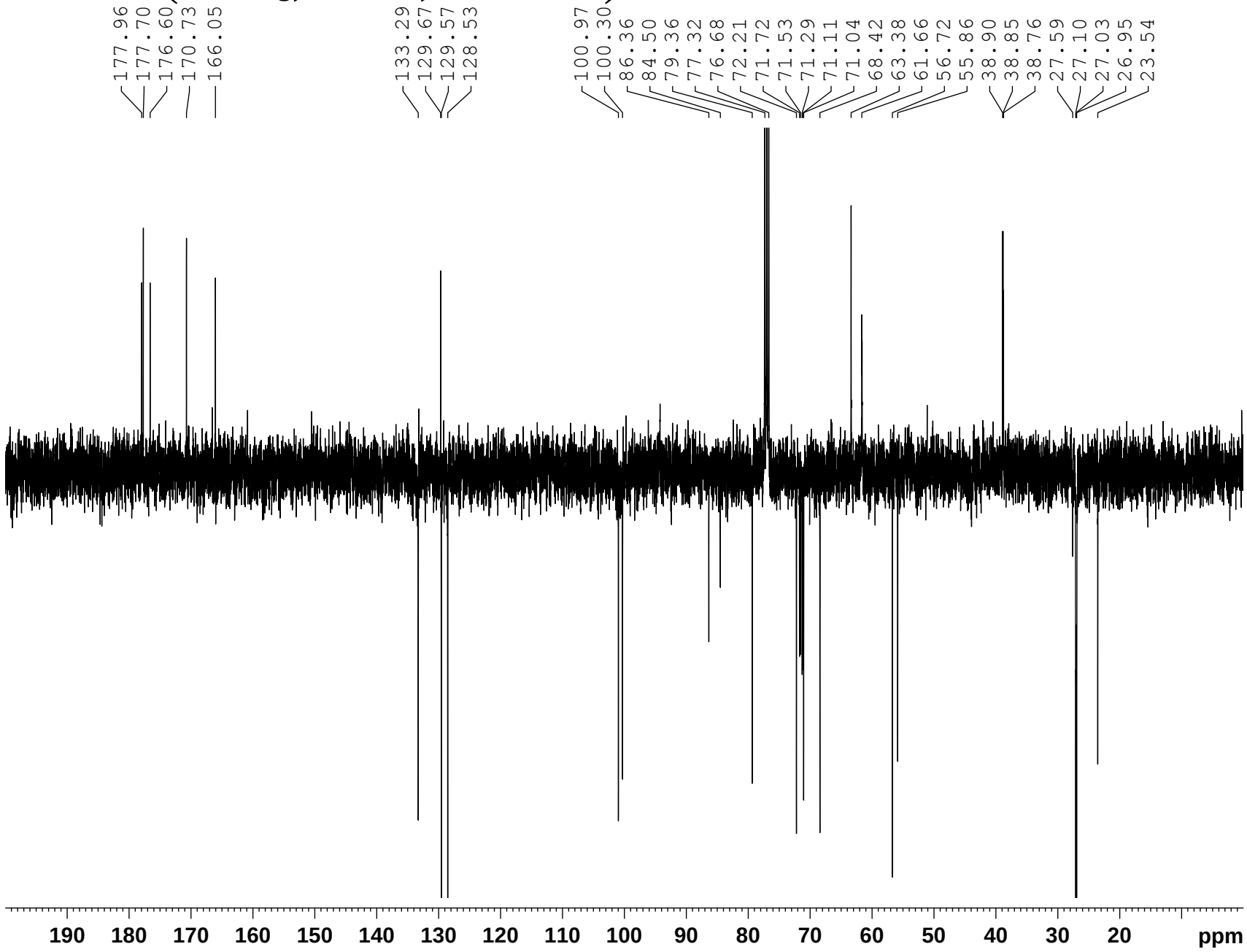
24, ^{13}C NMR ($CDCl_3$, 300 K, 100 MHz)



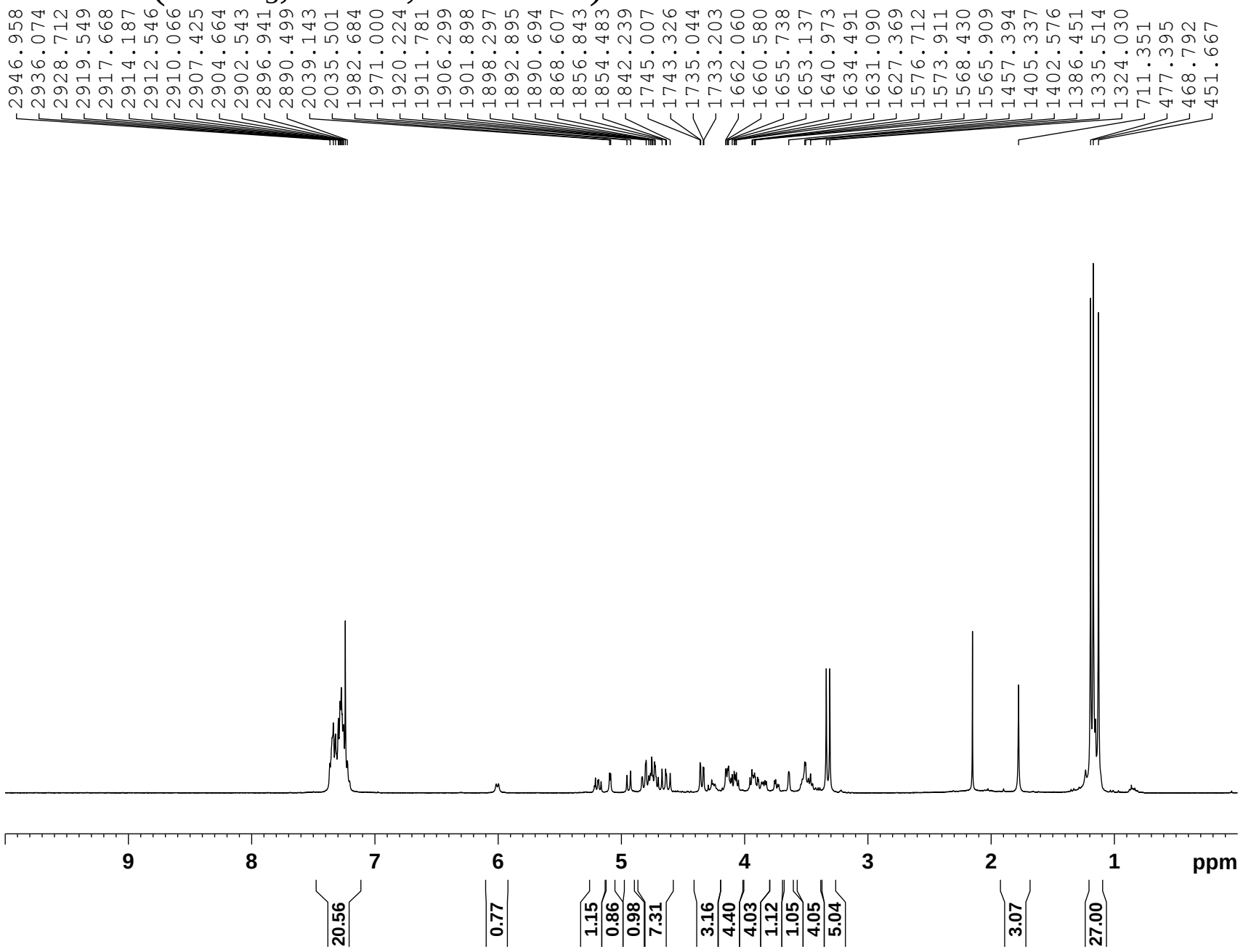
25, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



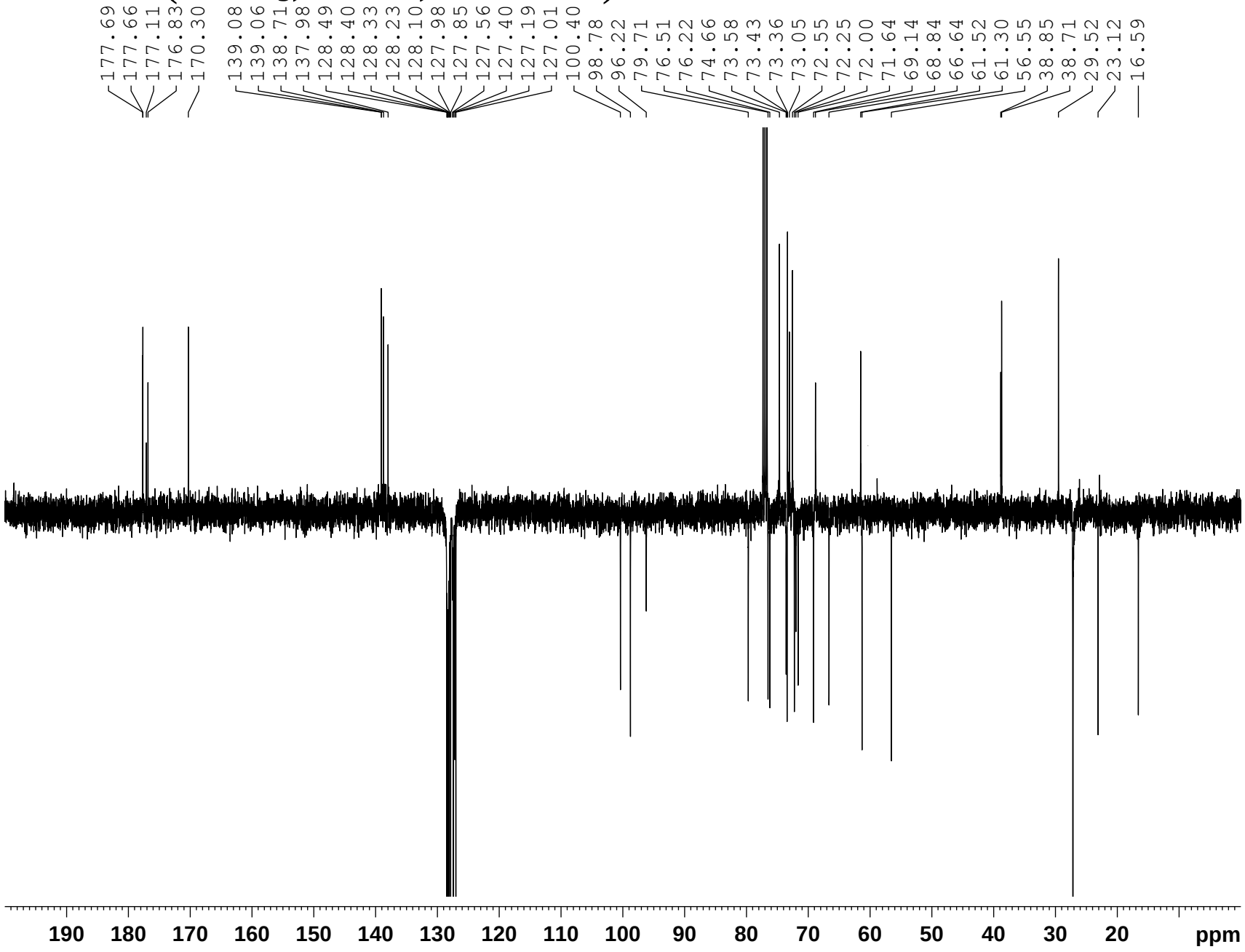
25, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



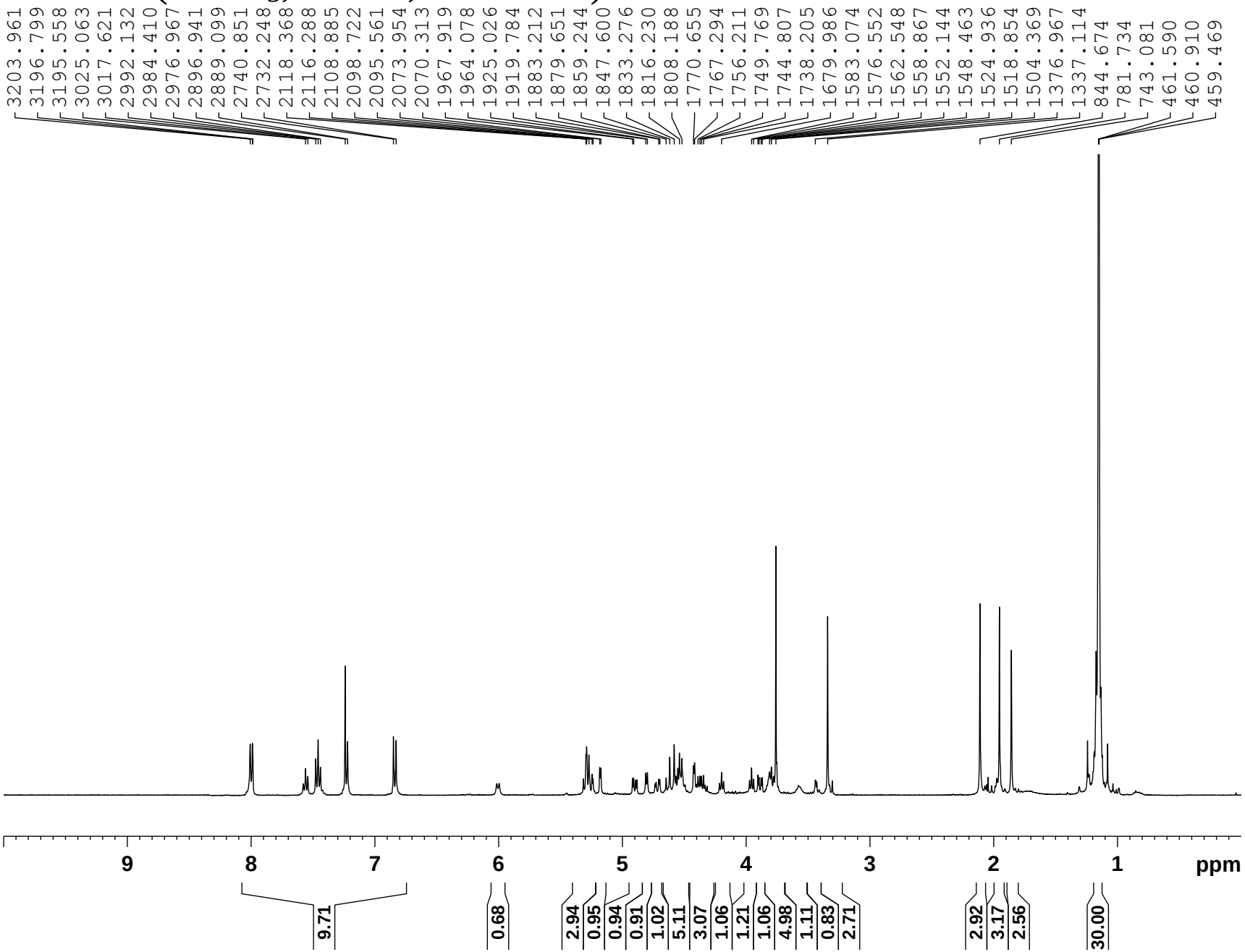
26, ^{1}H NMR ($CDCl_3$, 296 K, 400 MHz)



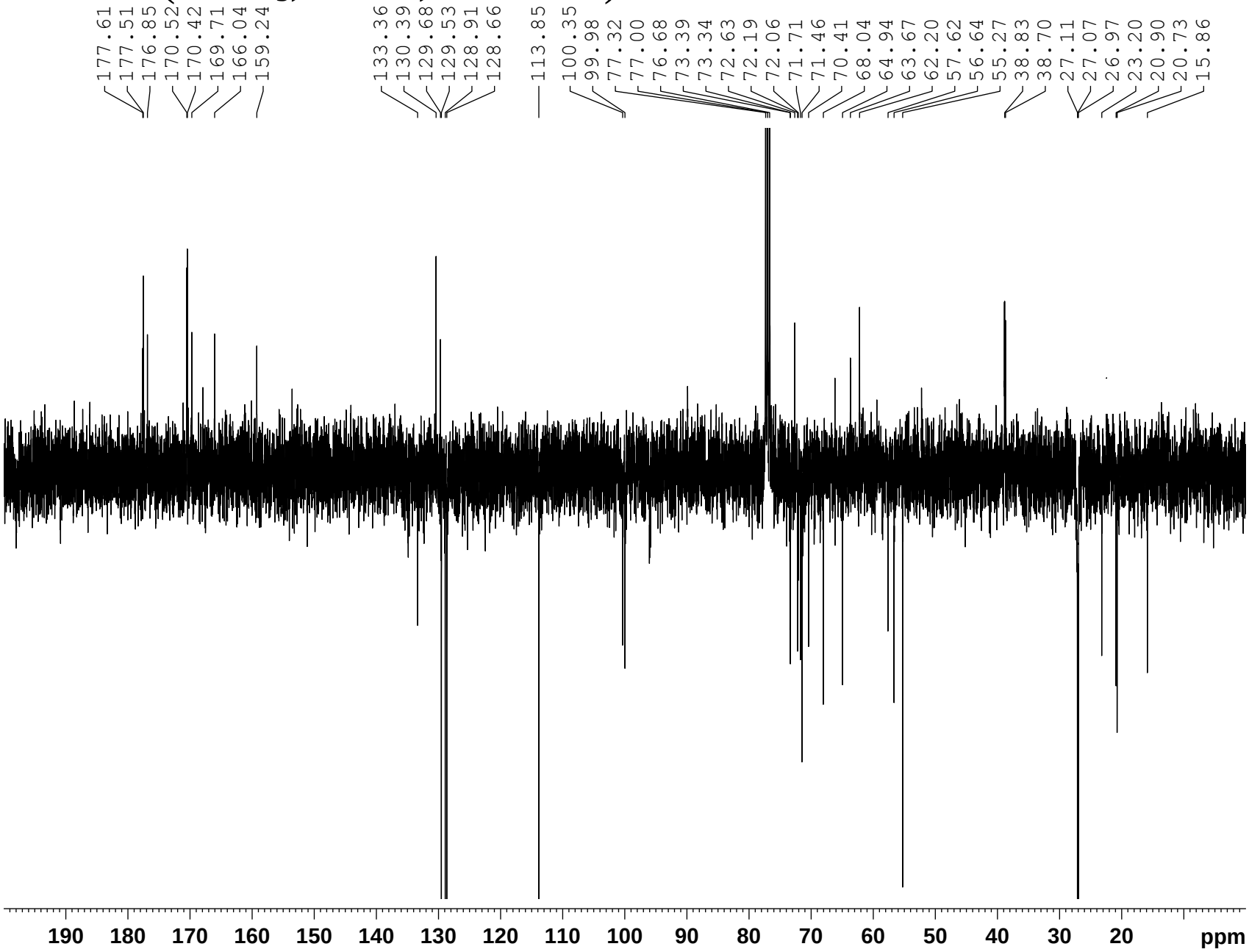
26, ^{13}C NMR ($CDCl_3$, 296 K, 100 MHz)



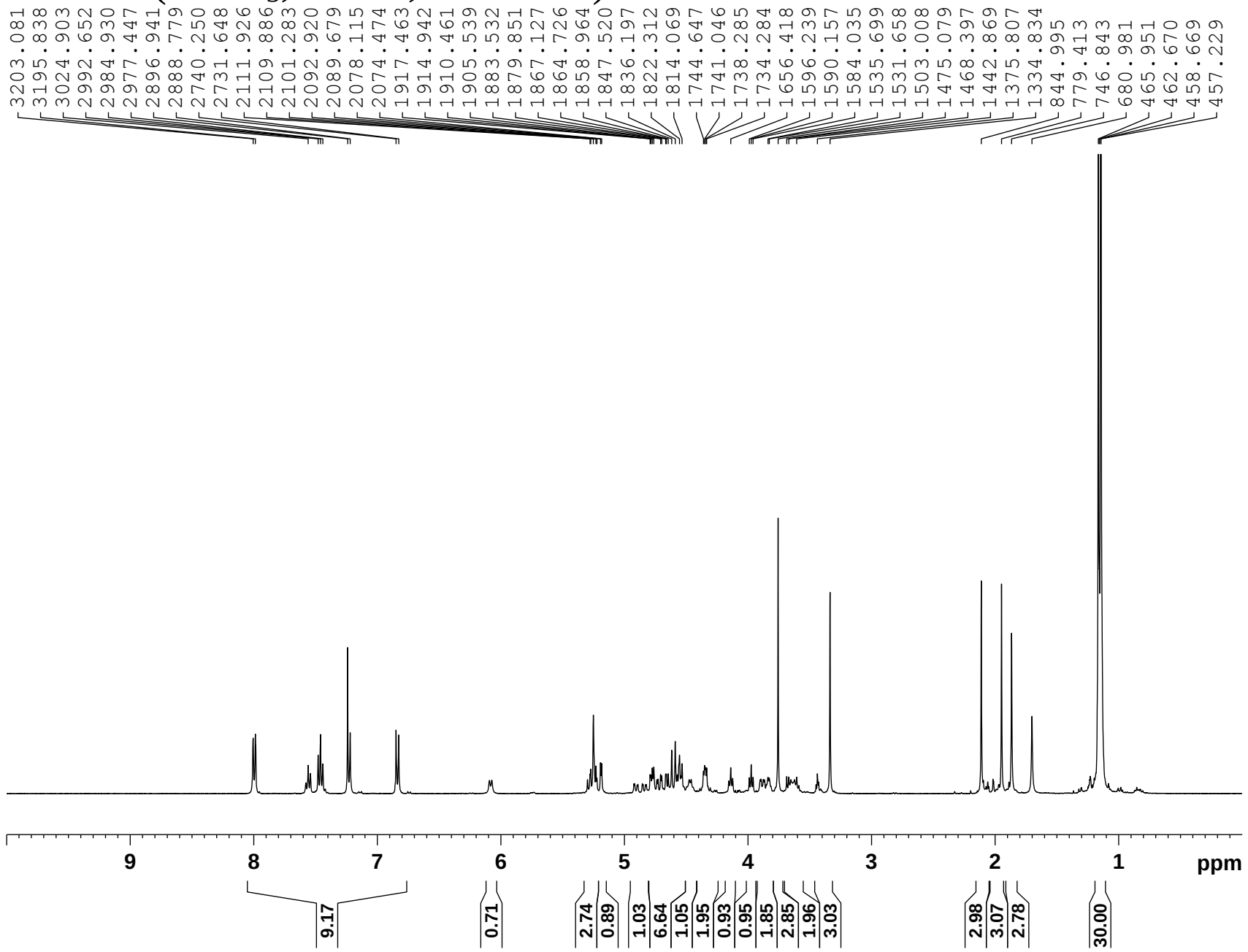
27, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



27, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)



28, ^{1}H NMR ($CDCl_3$, 295 K, 400 MHz)



28, ^{13}C NMR ($CDCl_3$, 295 K, 100 MHz)