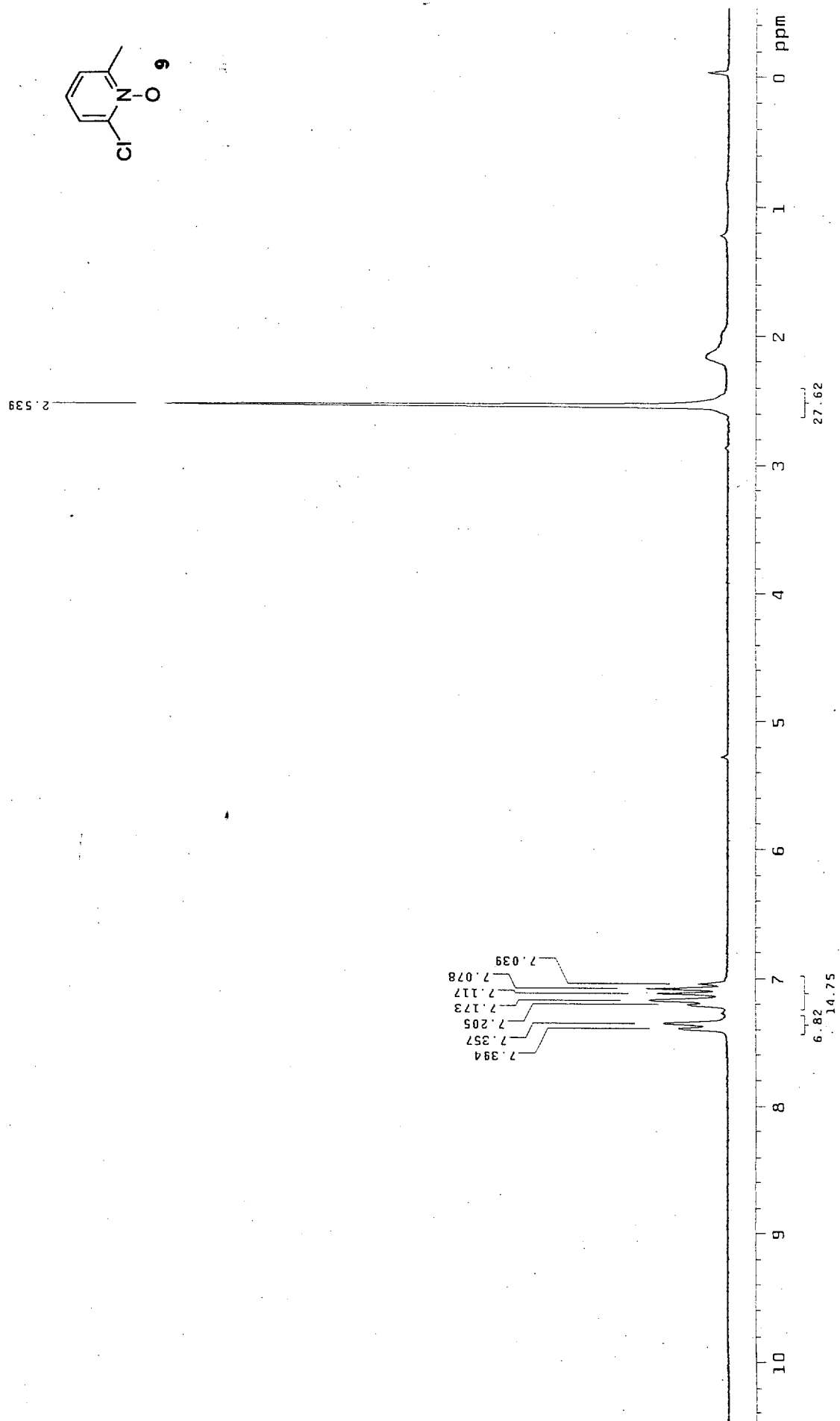
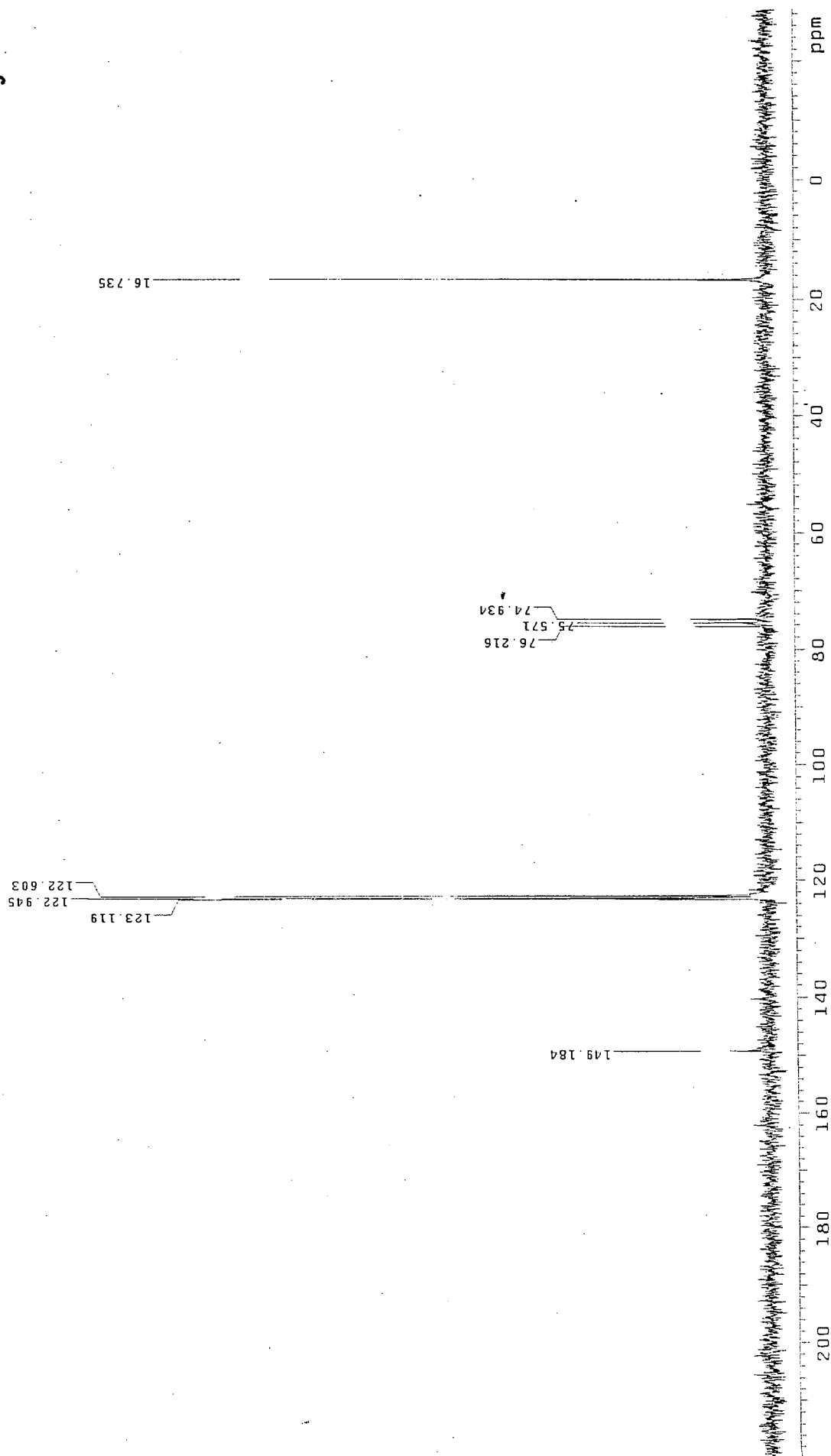
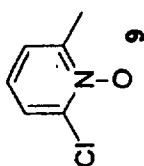


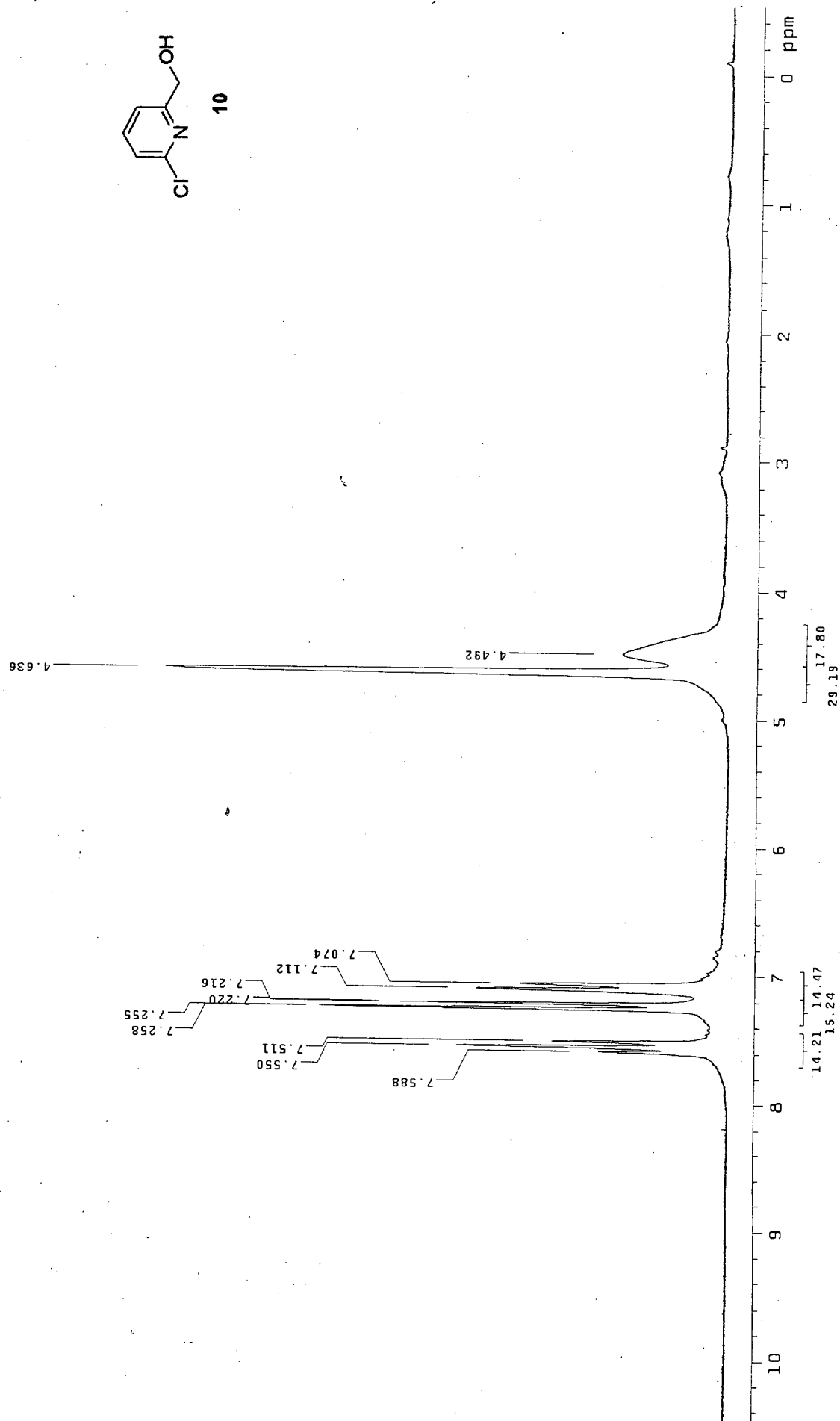
Chloro-2-picoline N-Oxide, <sup>1</sup>H NMR (200 MHz, CDCl<sub>3</sub>) (9)



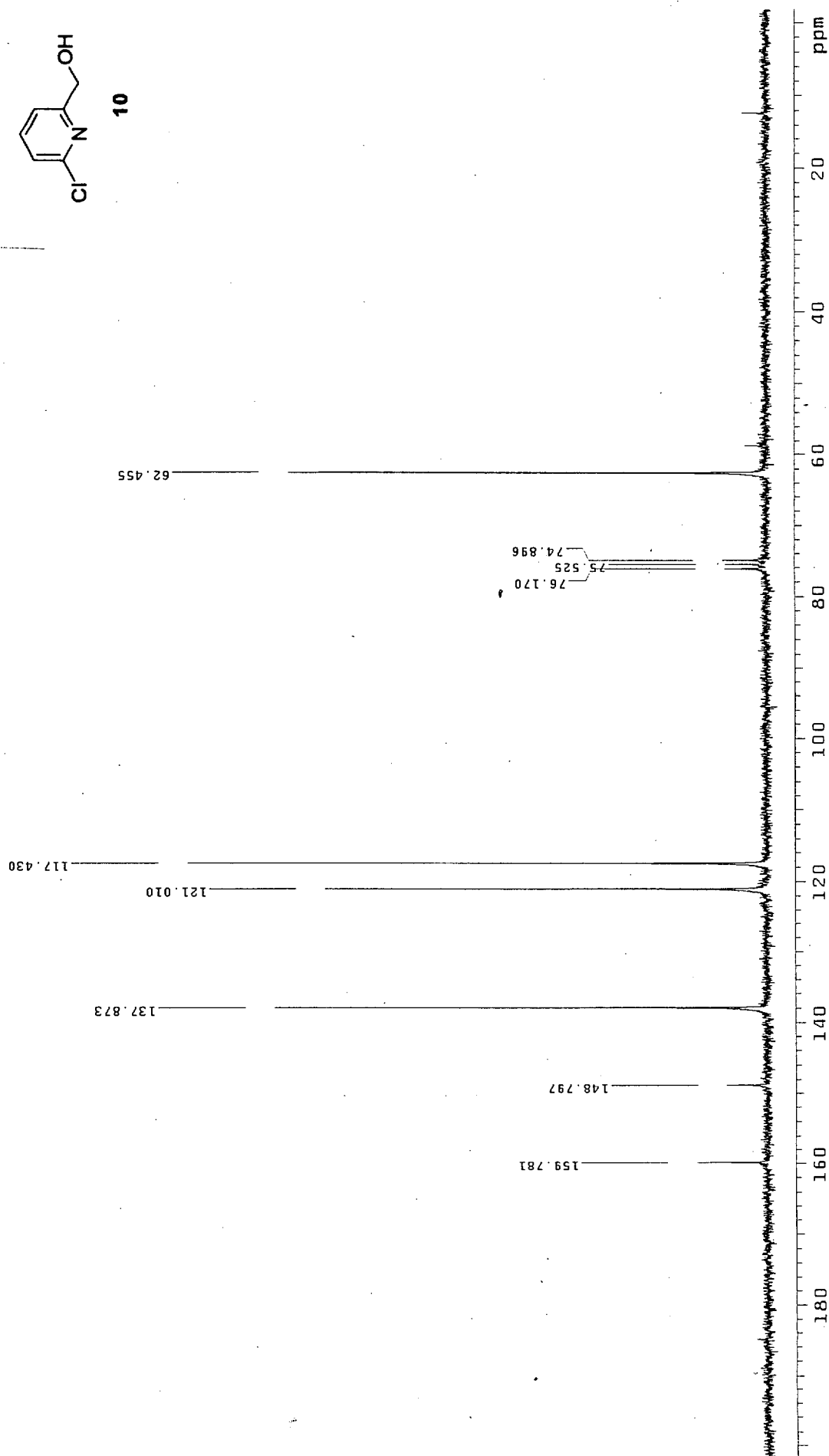
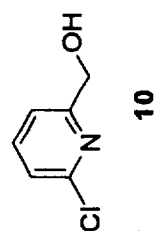


5-Chloro-2-picoline N-Oxide, <sup>13</sup>C NMR (50 MHz, CDCl<sub>3</sub>) (9)

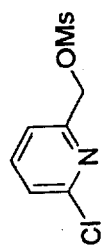
Chloro- $\alpha$ -hydroxy-2-picoline,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (10)



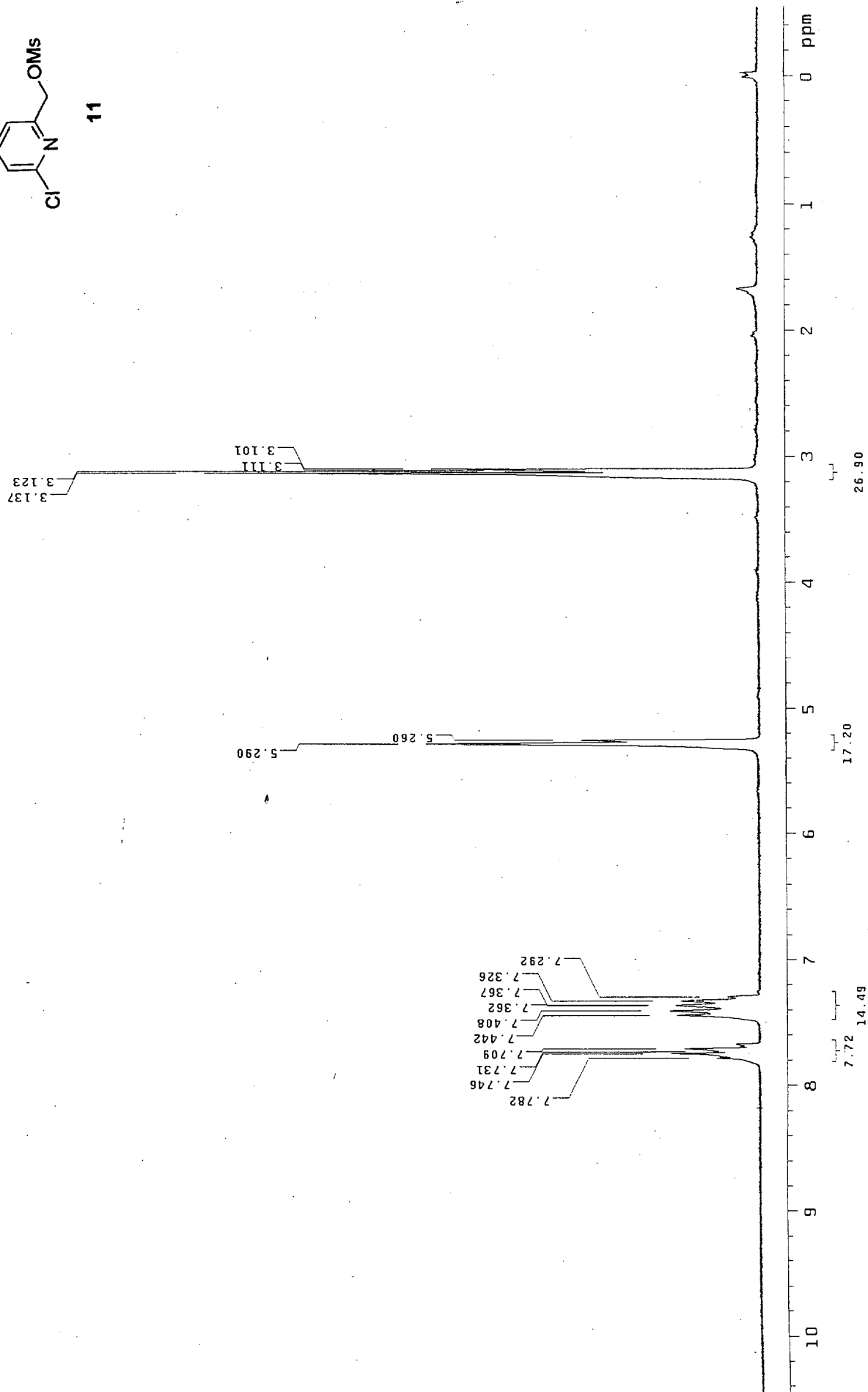
6-Chloro- $\alpha$ -hydroxy-2-picoline,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (10)



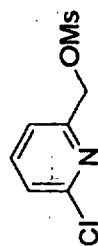
chloro- $\alpha$ -methanesulfonyloxy-2-picoline,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (11)



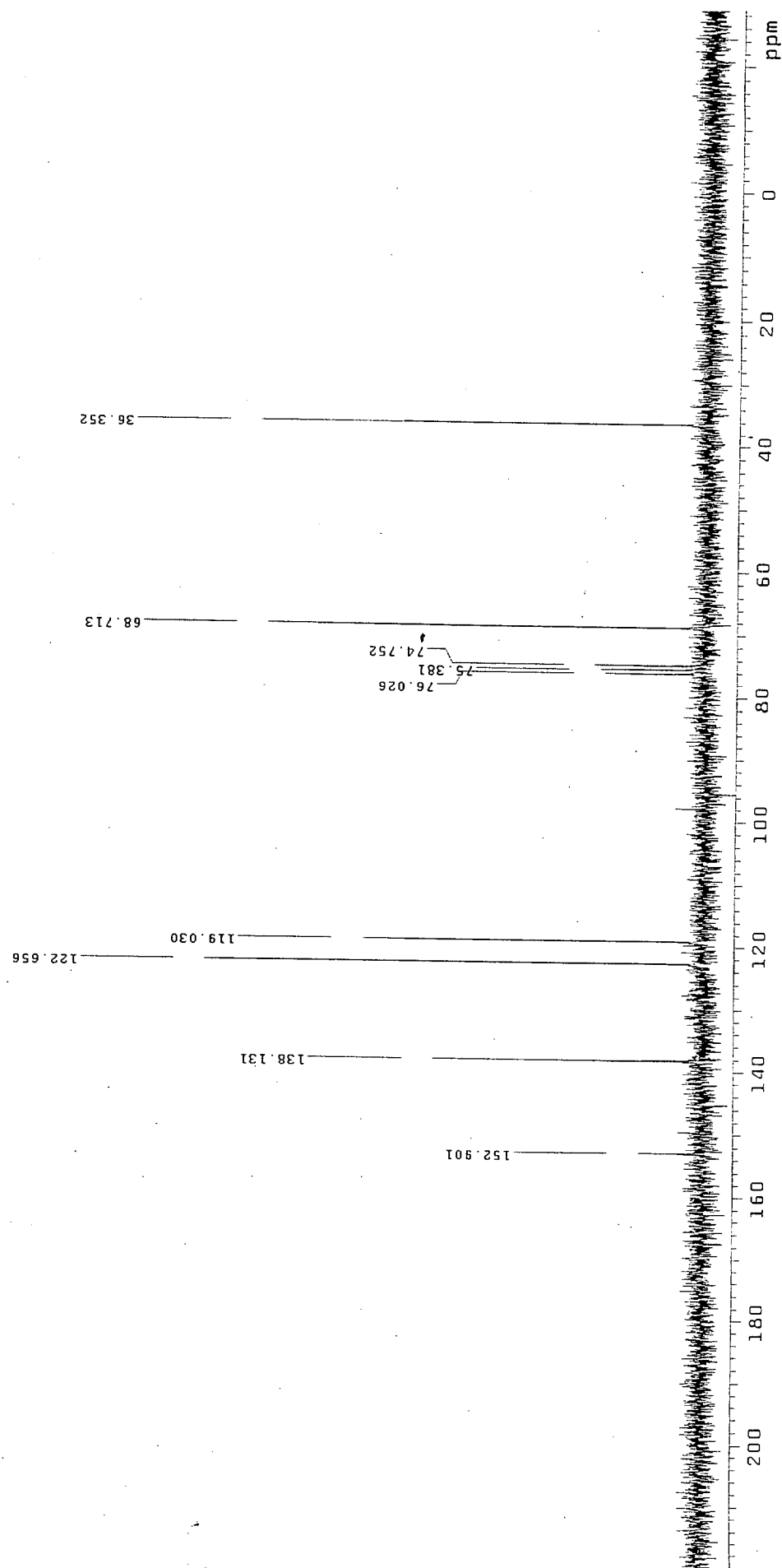
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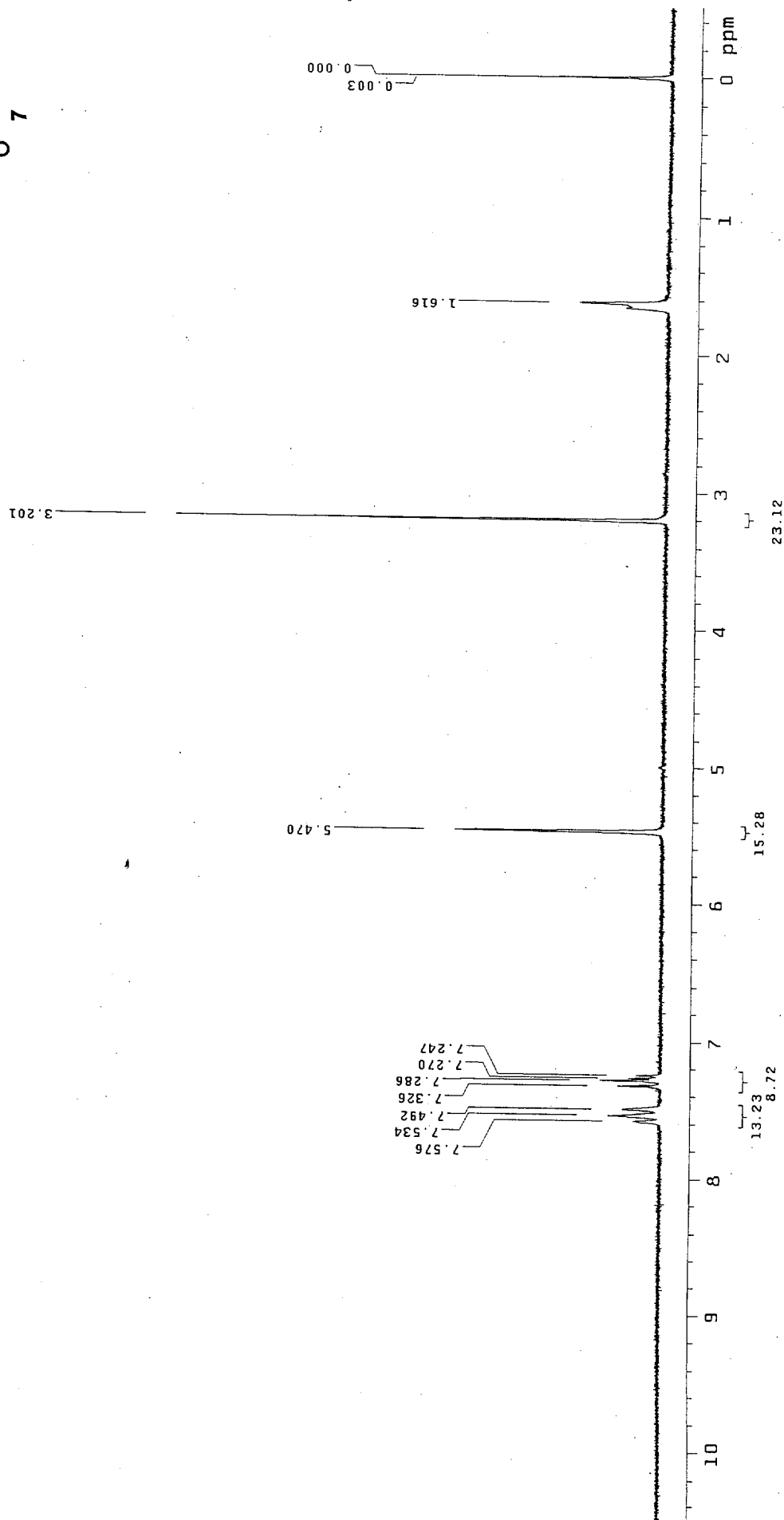
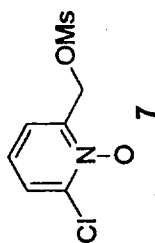
Chloro- $\alpha$ -methanesulfonyloxy-2-picoline,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (11)



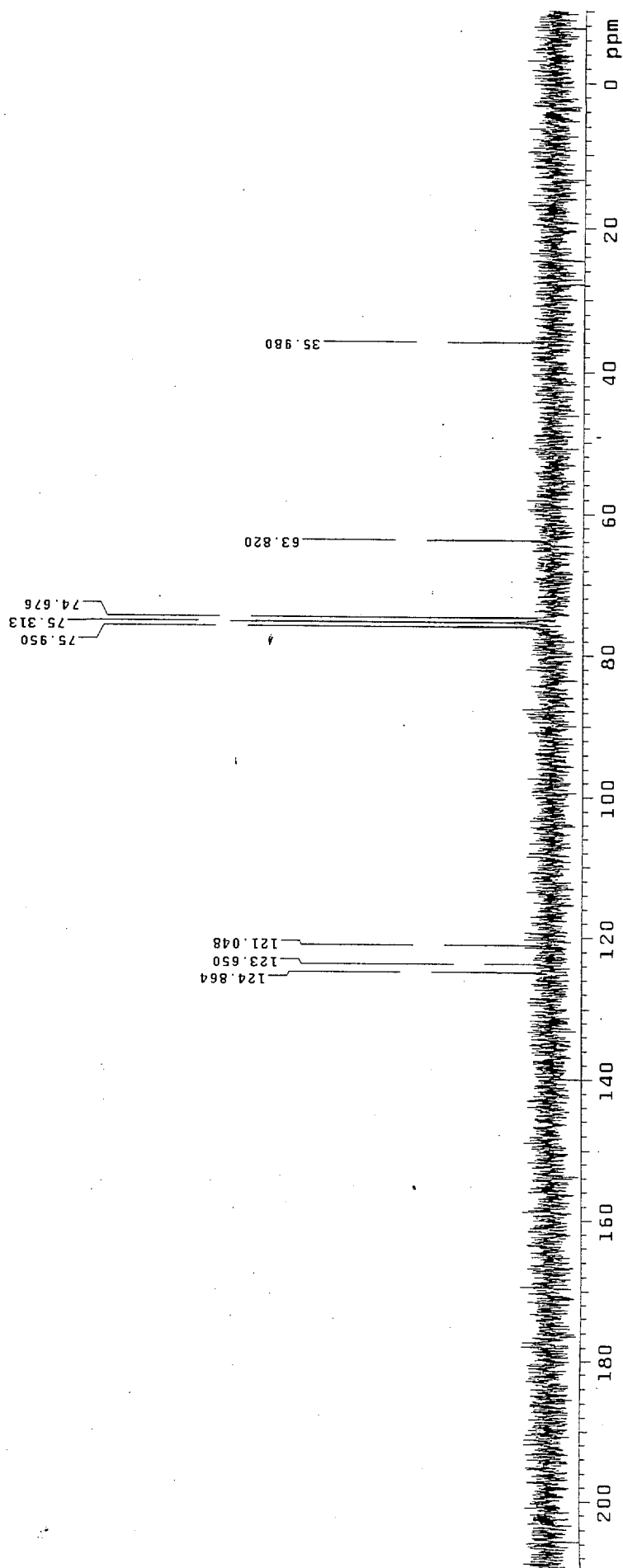
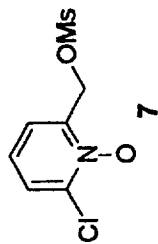
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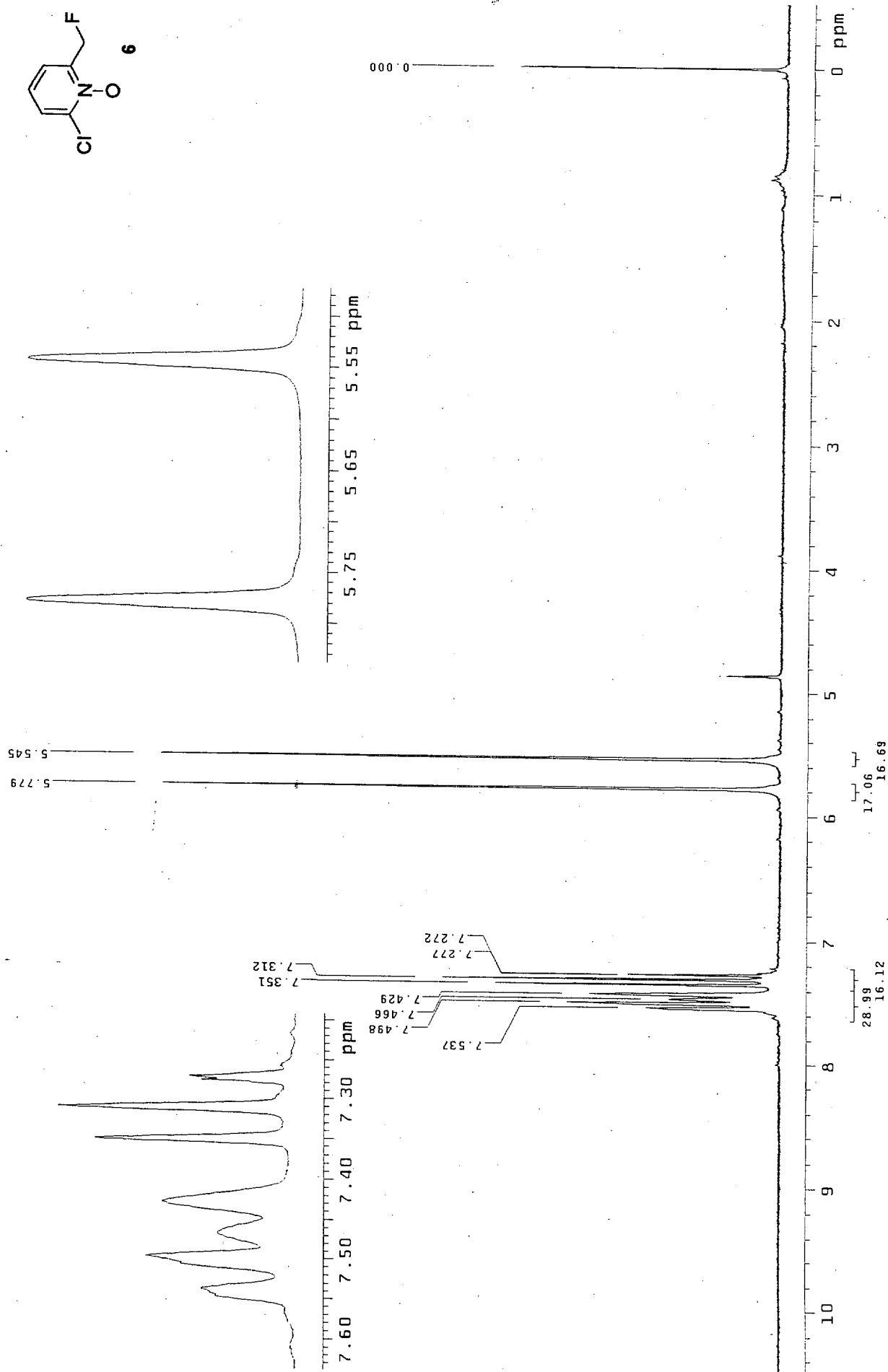
6-Chloro- $\alpha$ -methanesulfonyloxy-2-picoline N-Oxide,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (7)



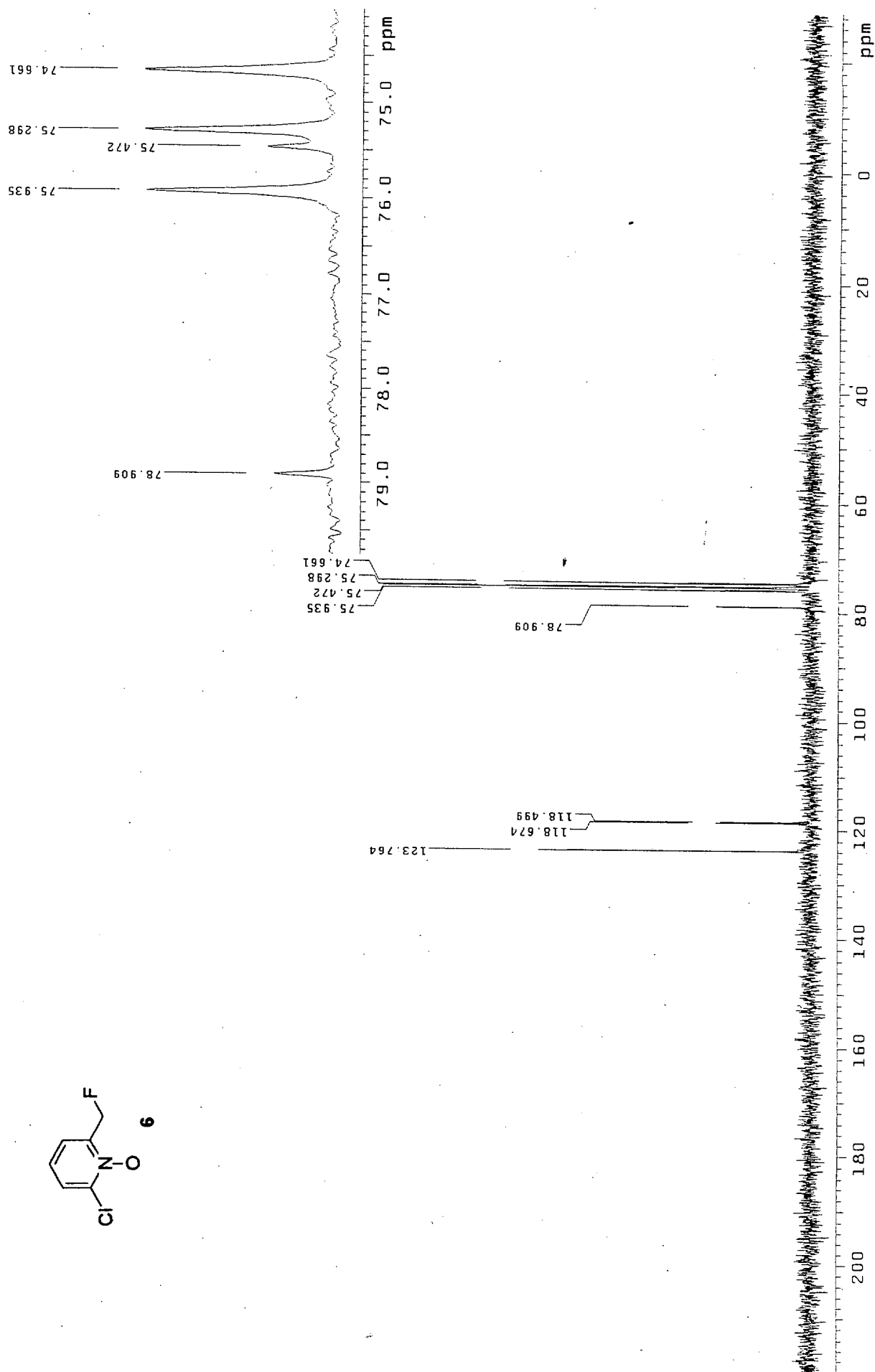
6-Chloro- $\alpha$ -methanesulfonyloxy-2-picoline N-Oxide,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (7)



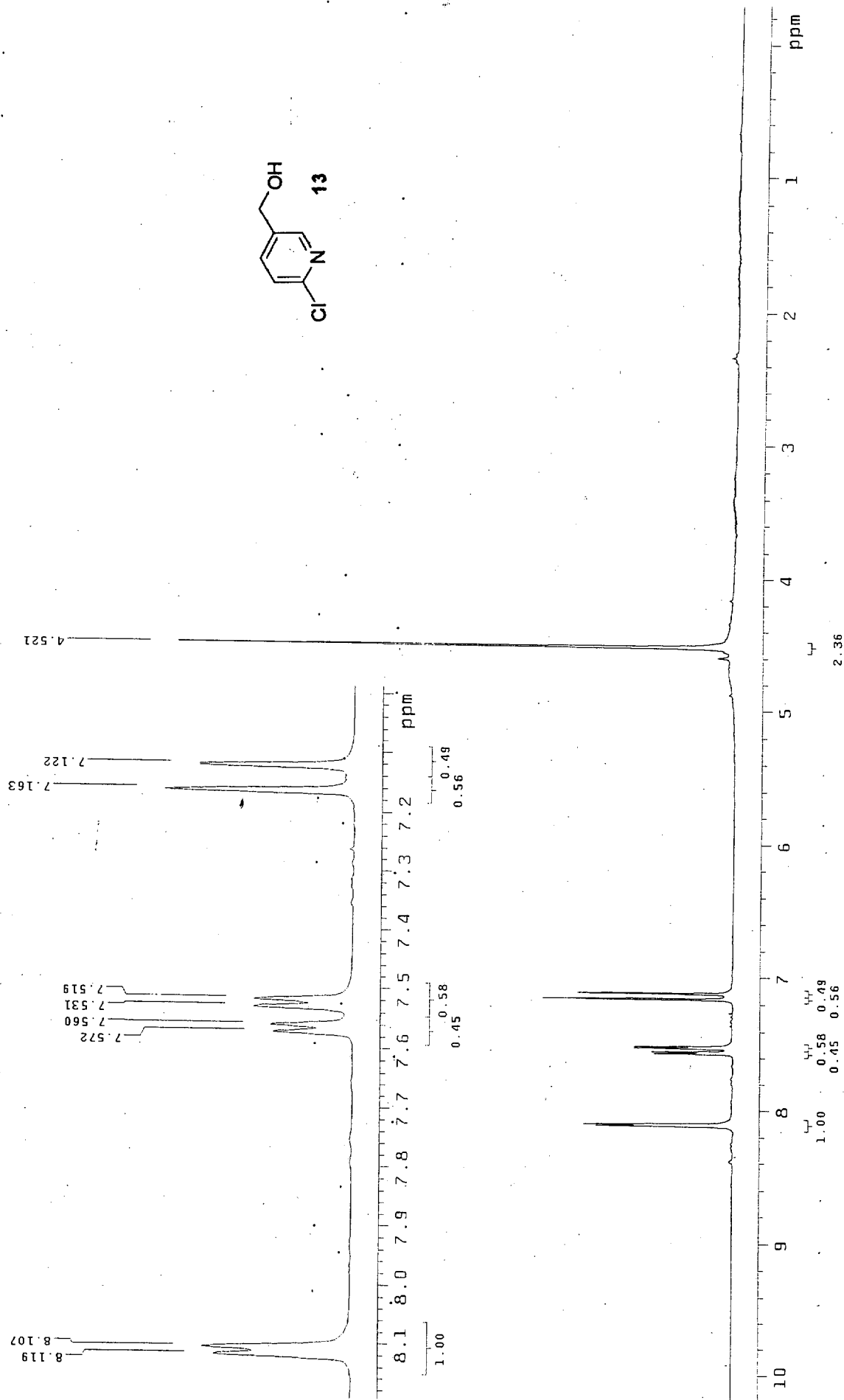
6-Chloro- $\alpha$ -fluoro-2-picoline N-Oxide,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (6)



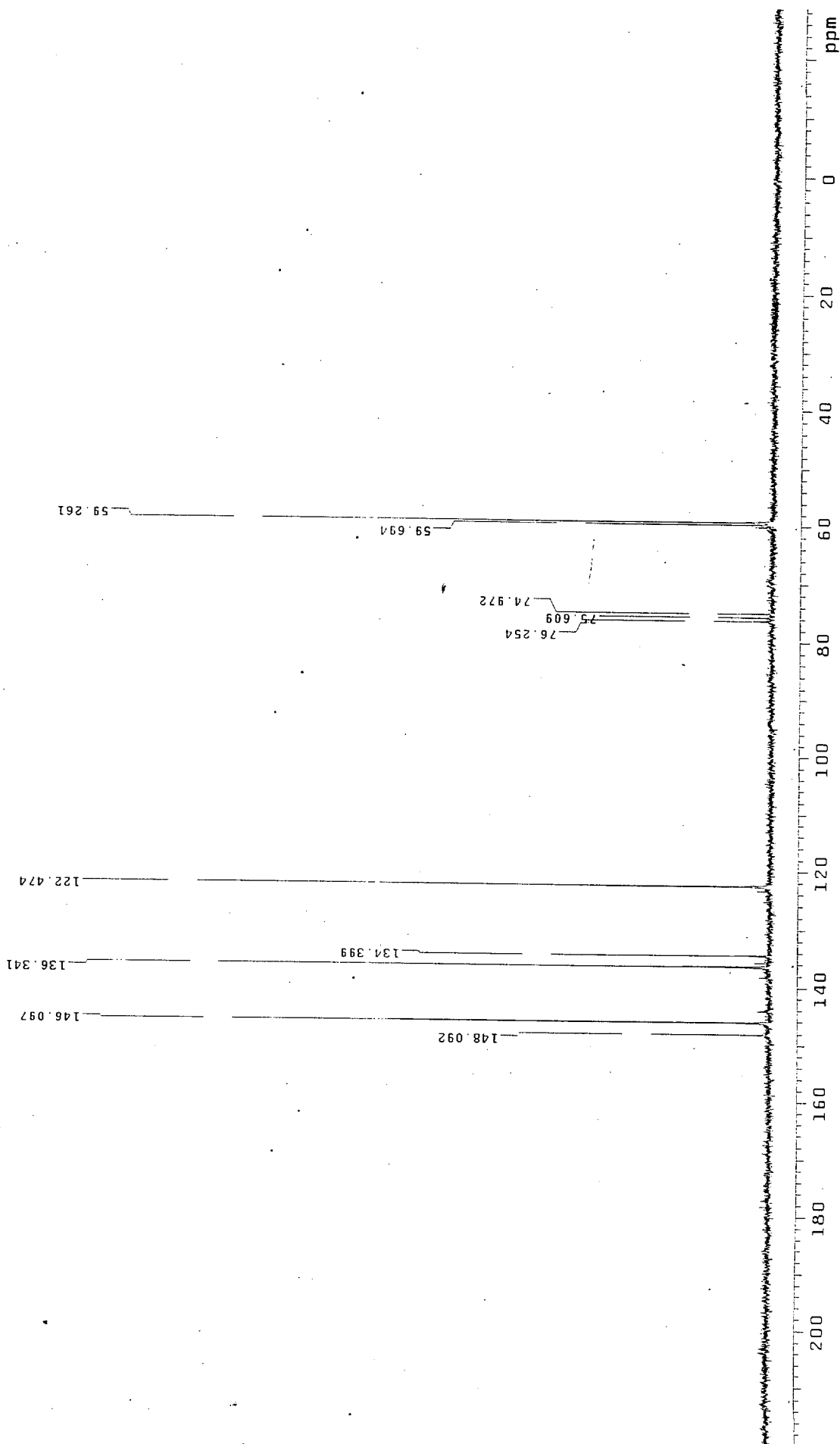
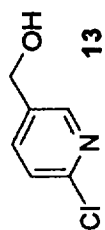
6-Chloro- $\alpha$ -fluoro-2-picoline N-Oxide,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (6)



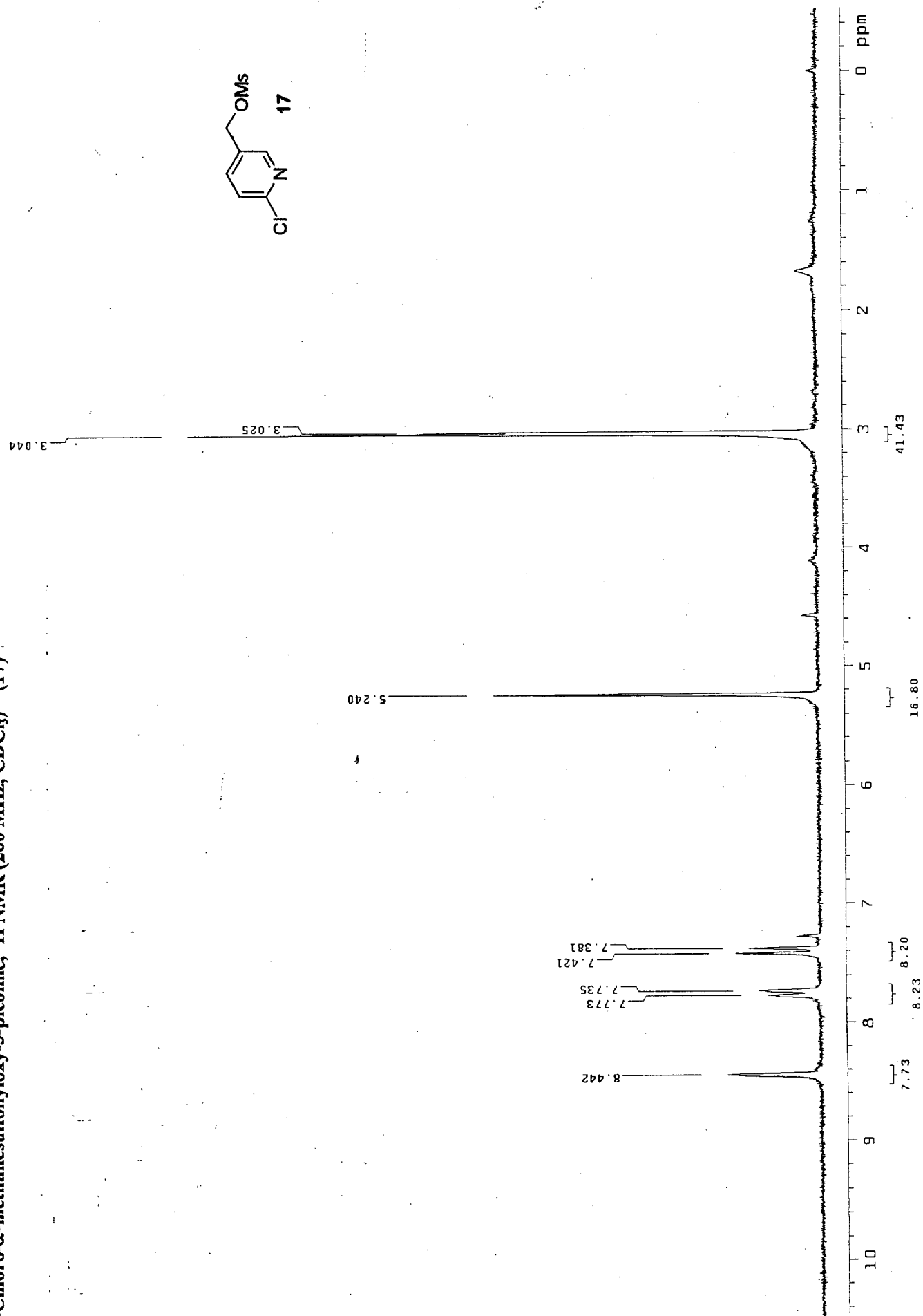
4-Chloro- $\alpha$ -hydroxy-3-picoline,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (13)



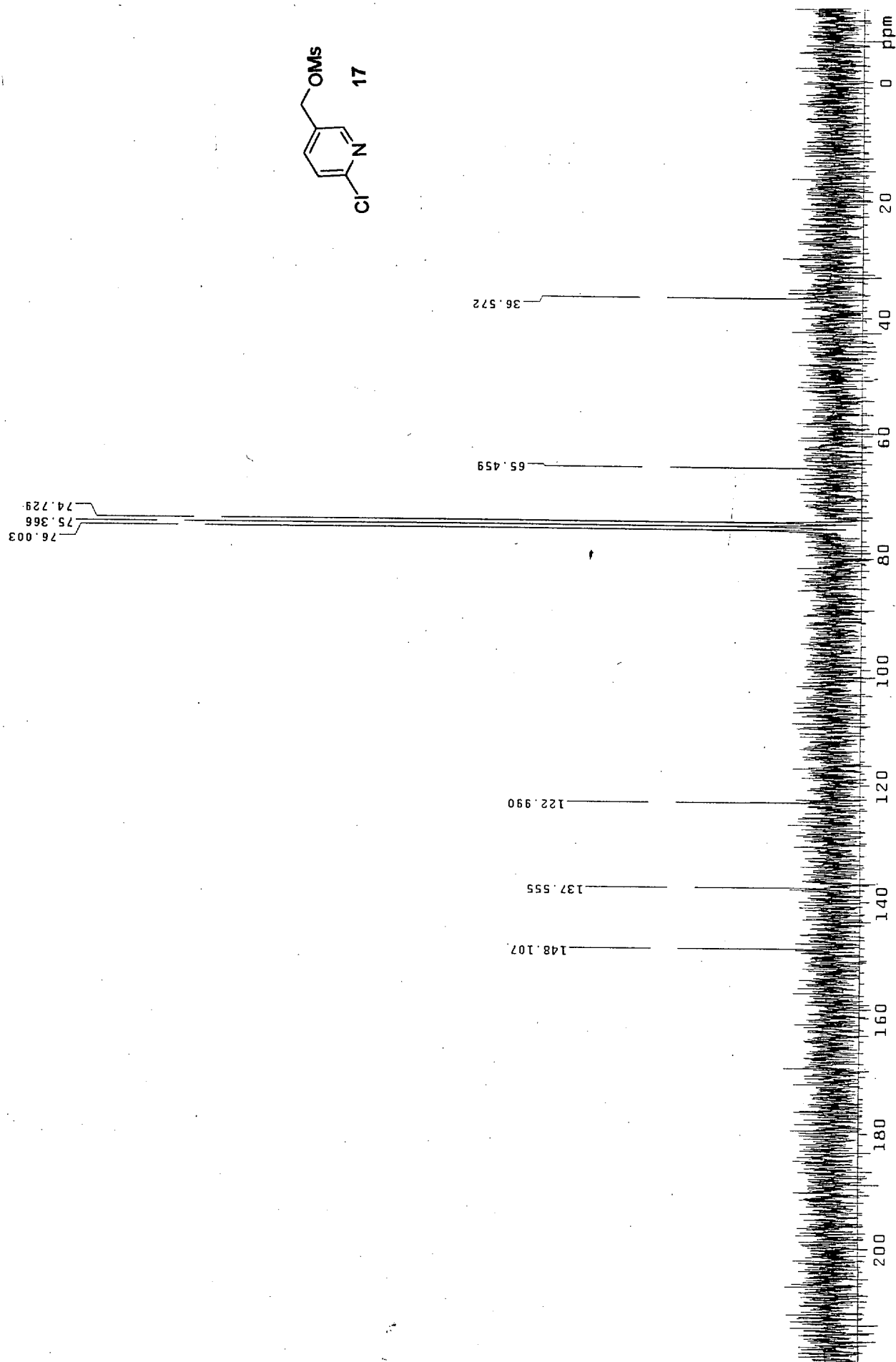
5-Chloro- $\alpha$ -hydroxy-3-picoline,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (13)



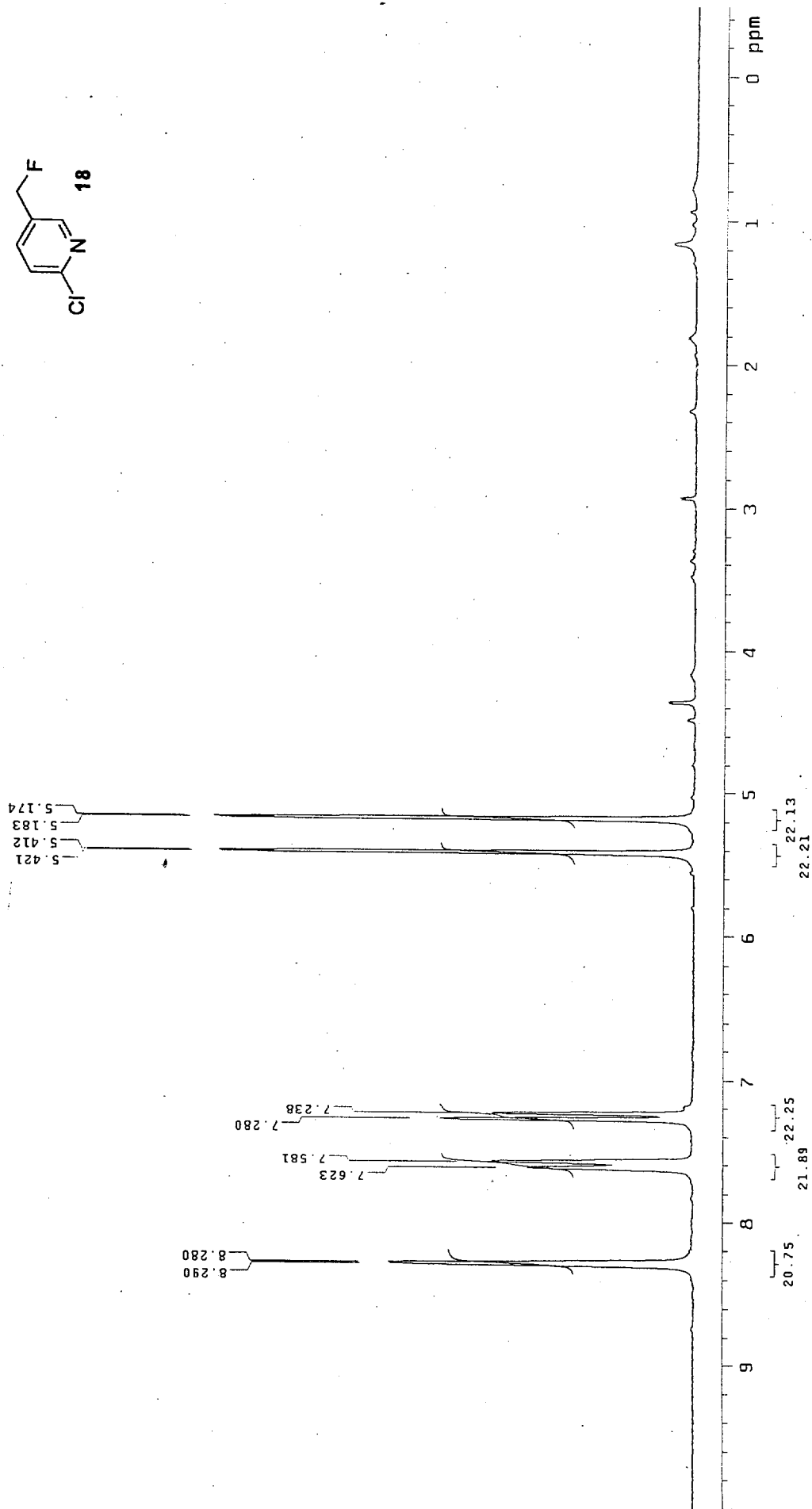
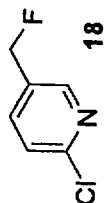
6-Chloro- $\alpha$ -methanesulfonyloxy-3-picoline,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (17)



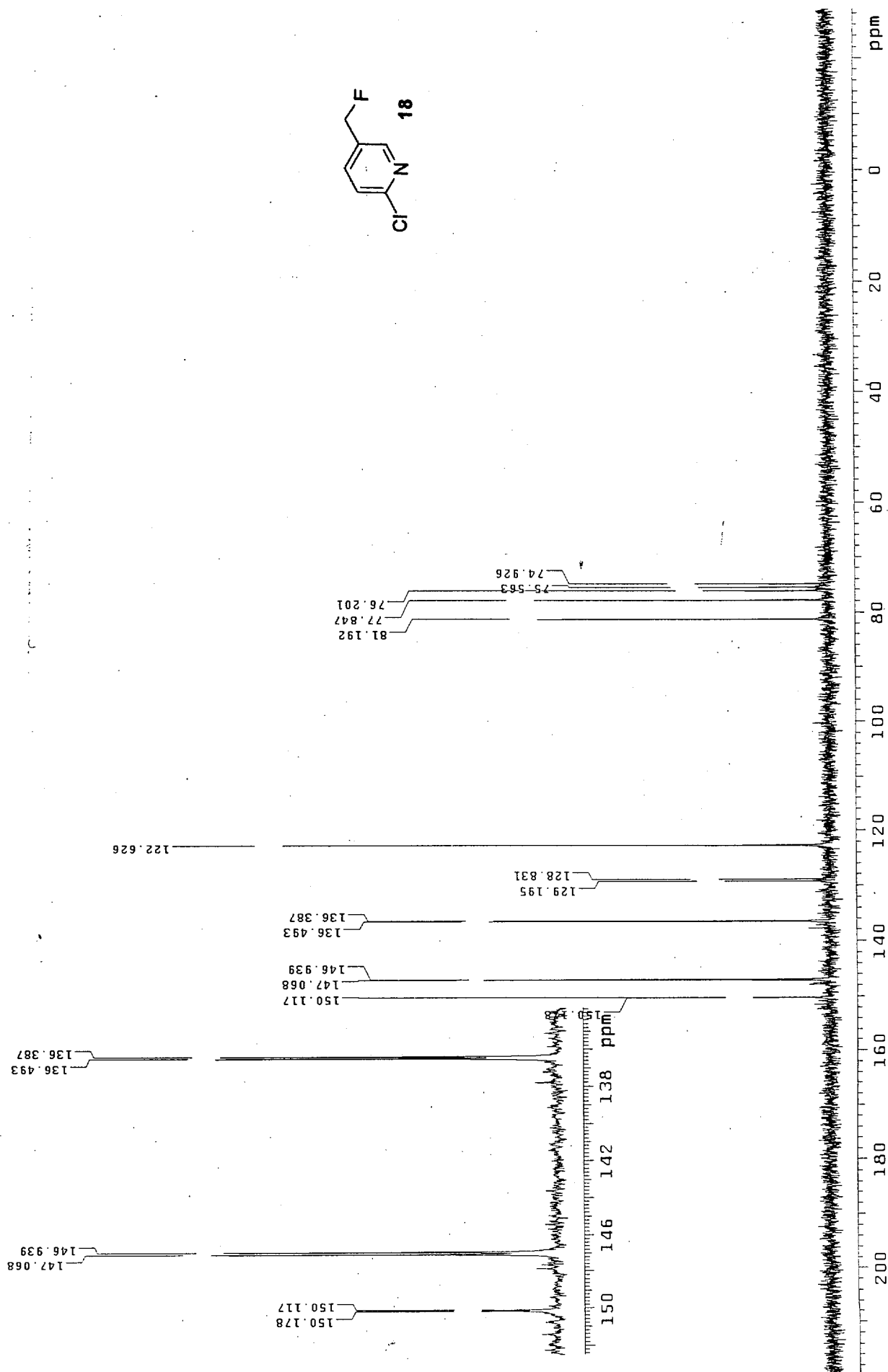
6-Chloro- $\alpha$ -methanesulfonyloxy-3-picoline,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (17)

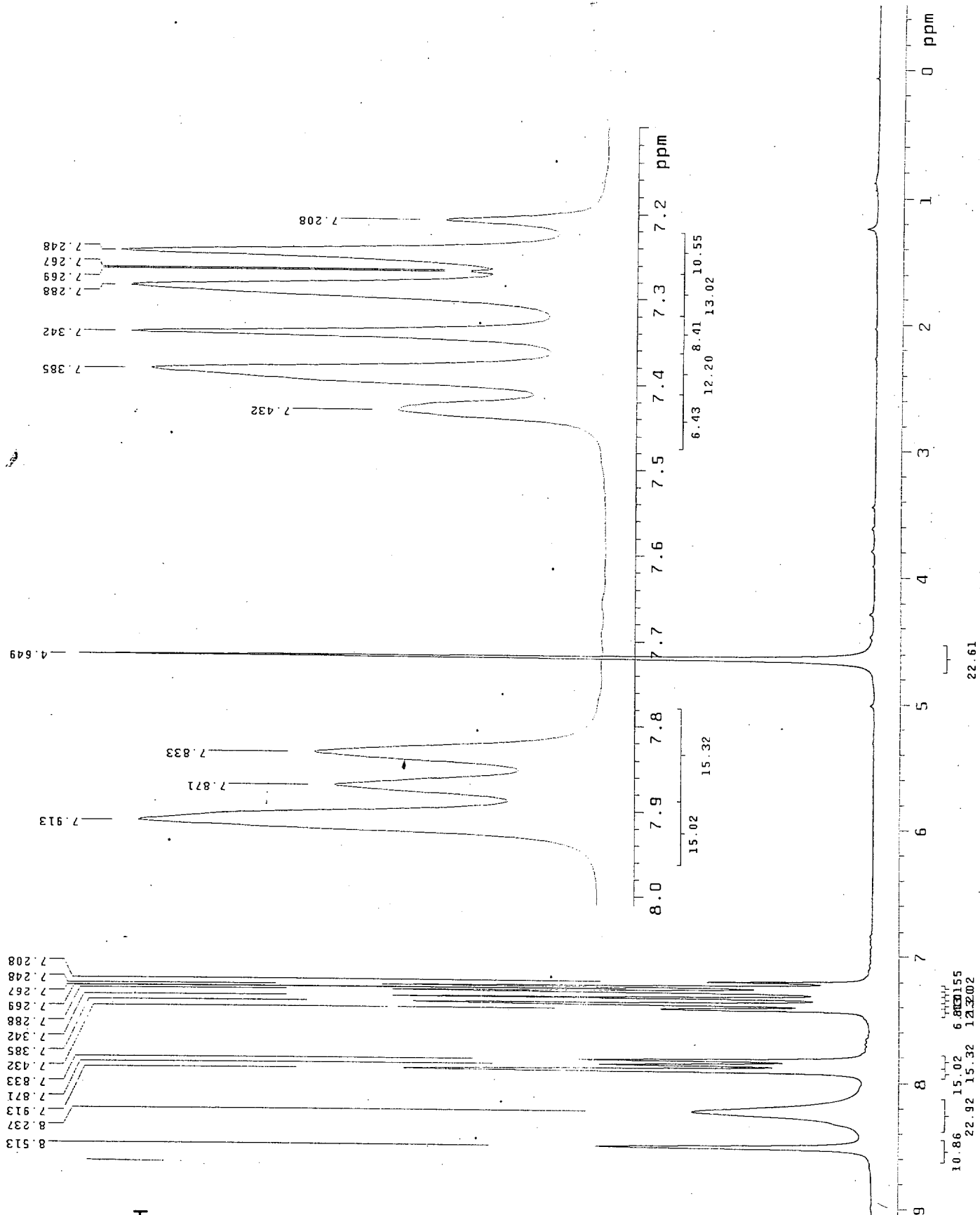
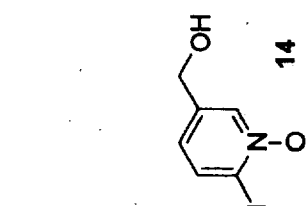


6-Chloro- $\alpha$ -fluoro-3-picoline,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (18)



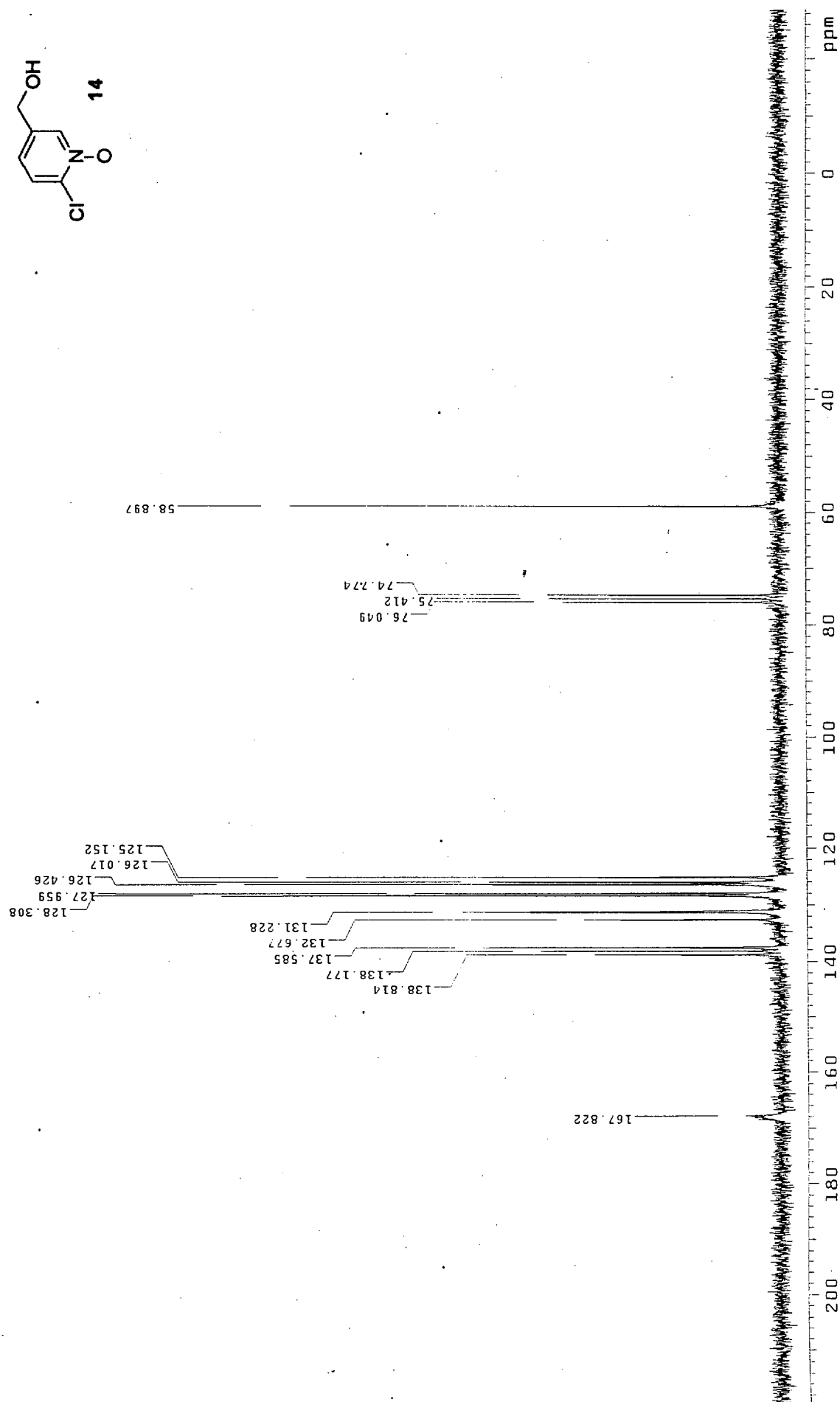
6-Chloro- $\alpha$ -fluoro-3-picoline,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (18)



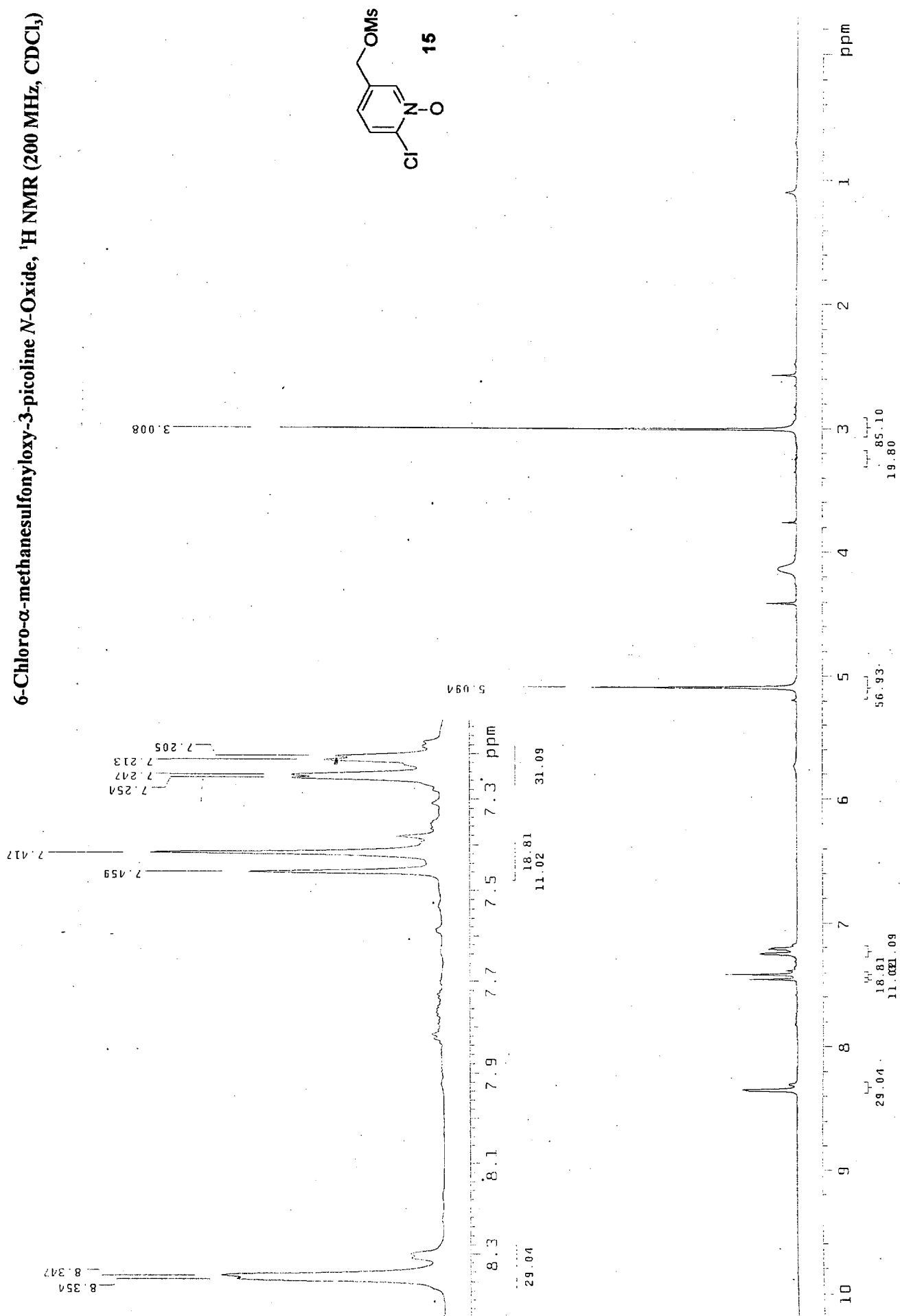


6-Chloro- $\alpha$ -hydroxy-3-picoline N-Oxide,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (14)

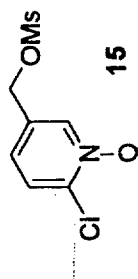
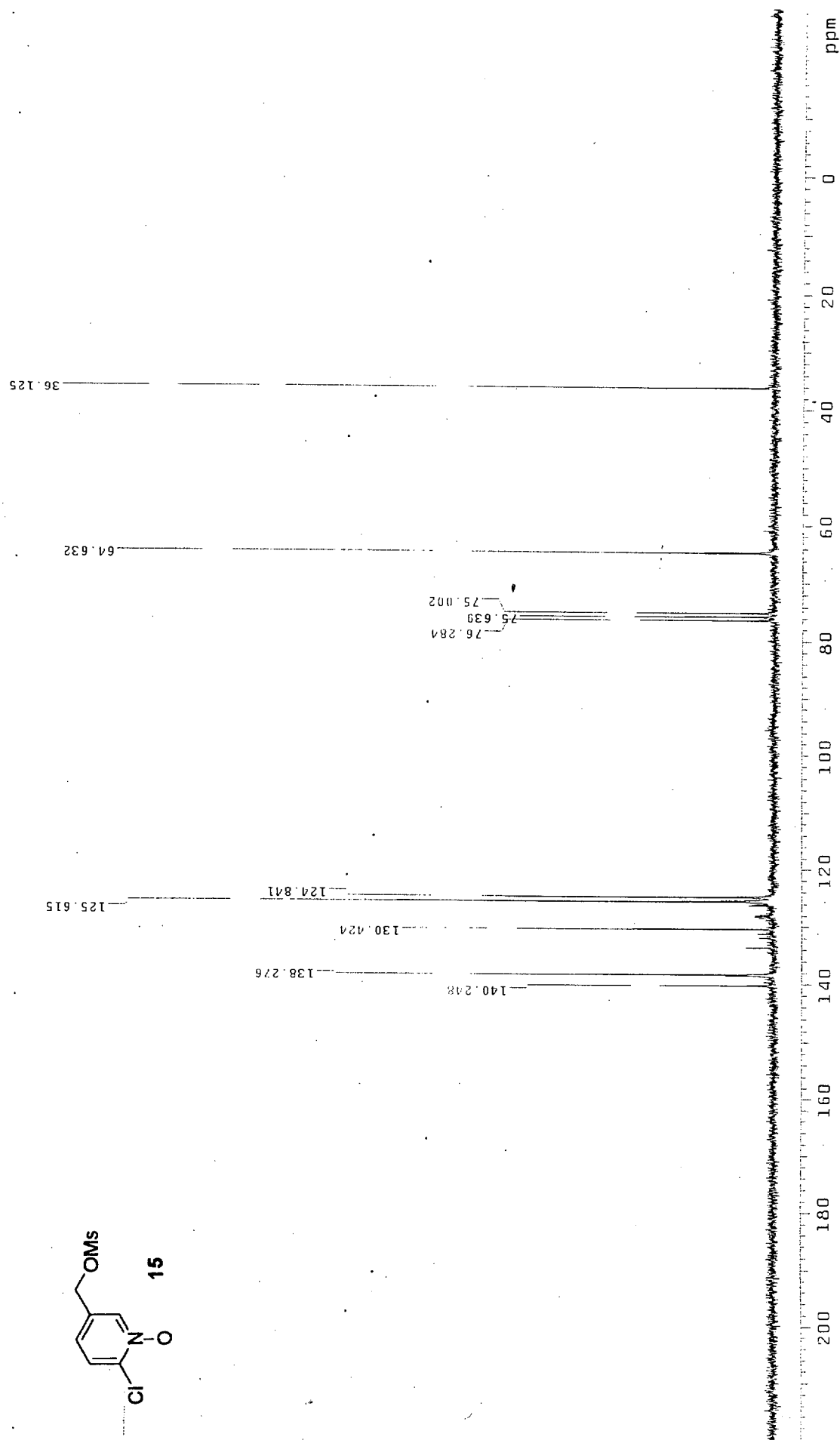
6-Chloro- $\alpha$ -hydroxy-3-picoline N-Oxide,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (14)



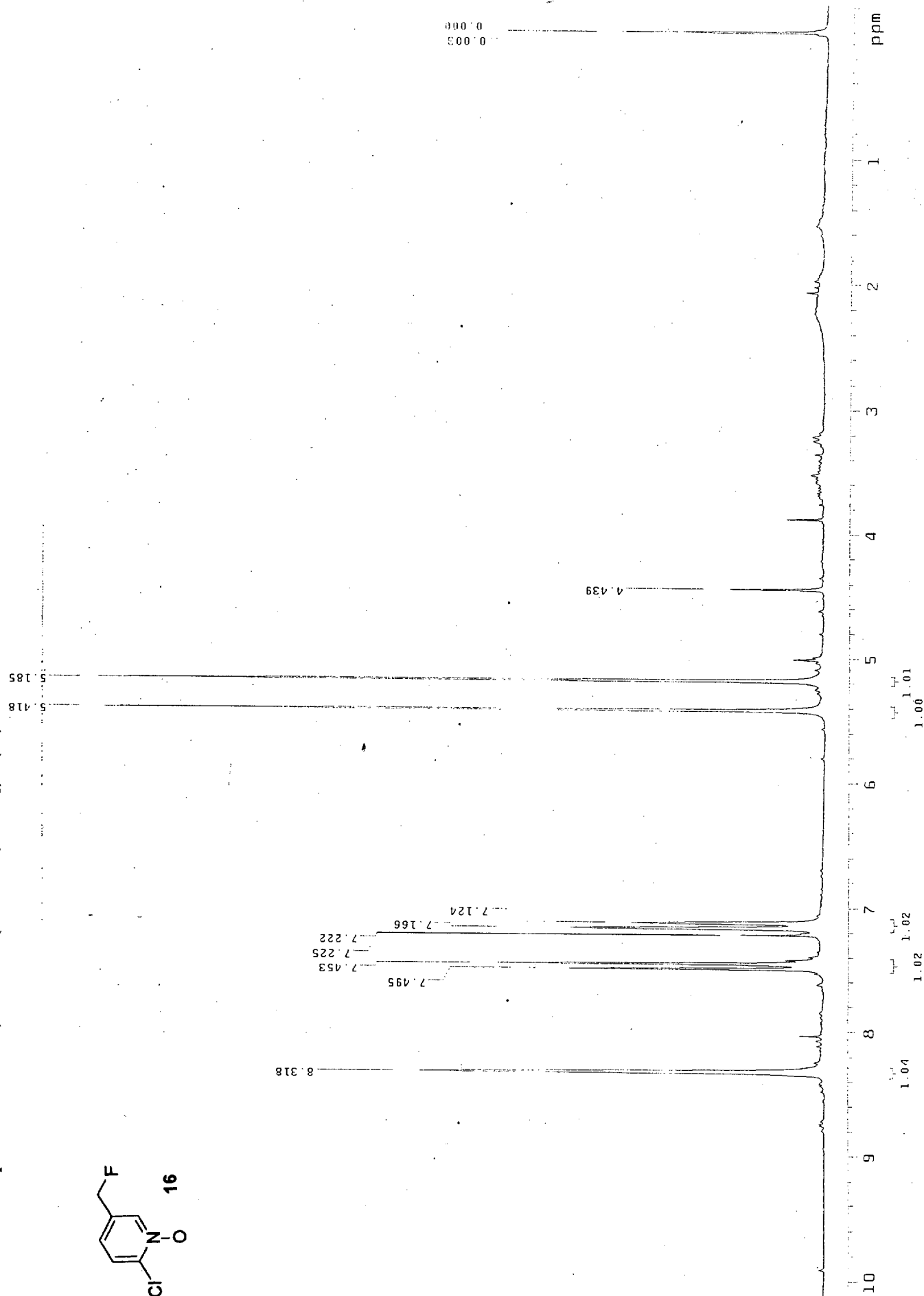
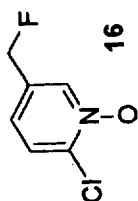
6-Chloro- $\alpha$ -methanesulfonyloxy-3-picoline N-Oxide,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (15)



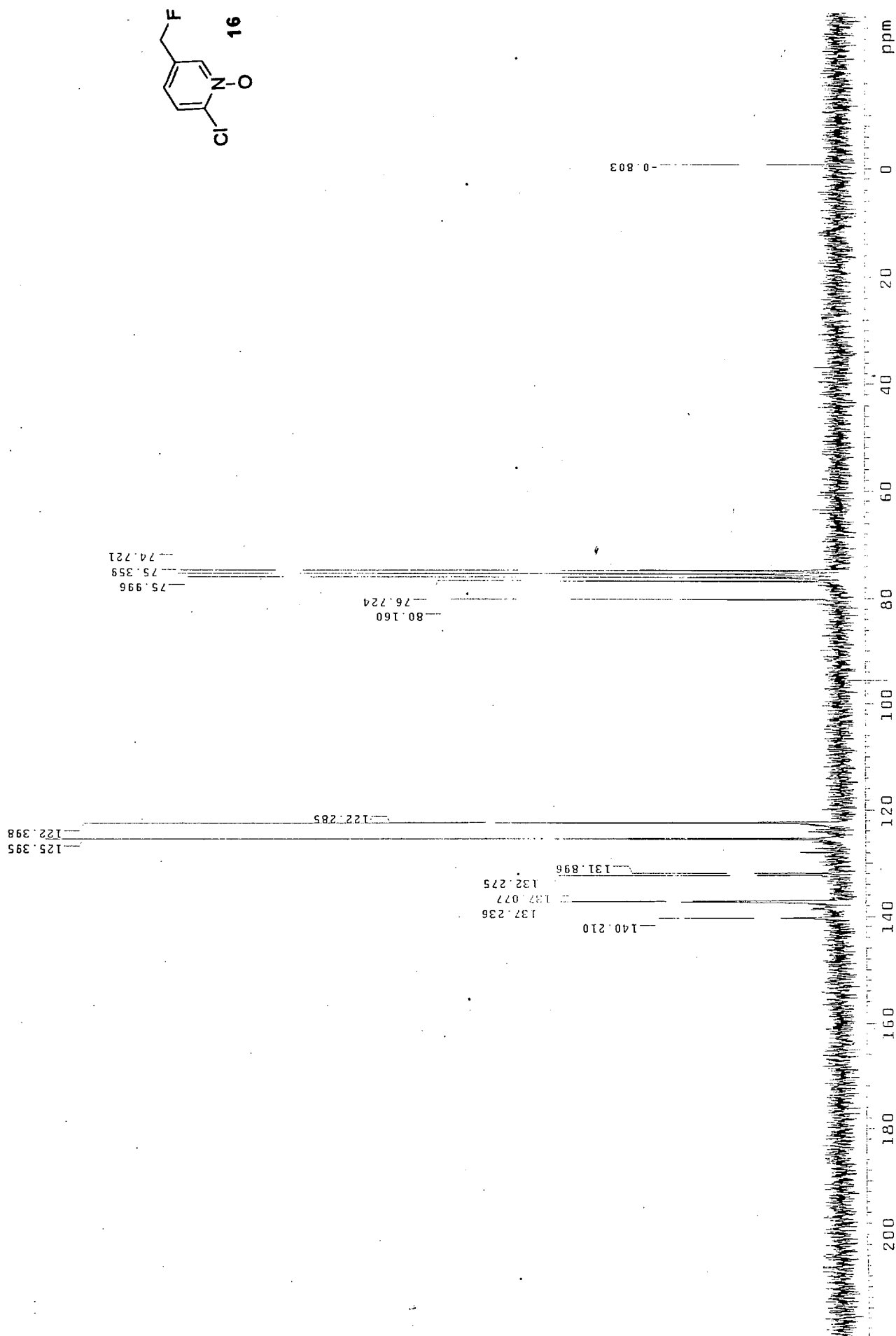
Chloro- $\alpha$ -methanesulfonyloxy-3-picoline N-Oxide,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (15)



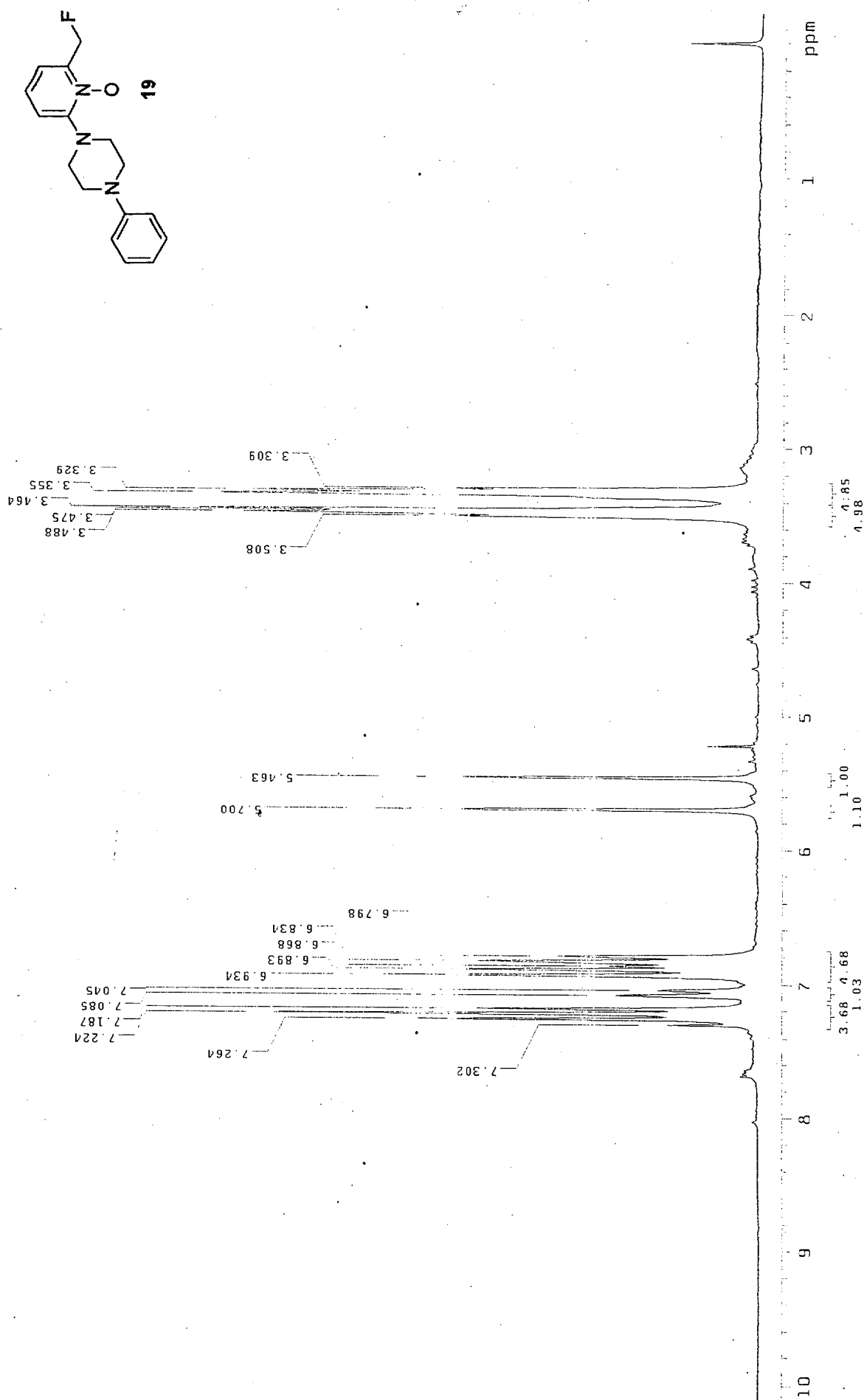
chloro- $\alpha$ -fluoro-3-picoline N-Oxide,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (16)



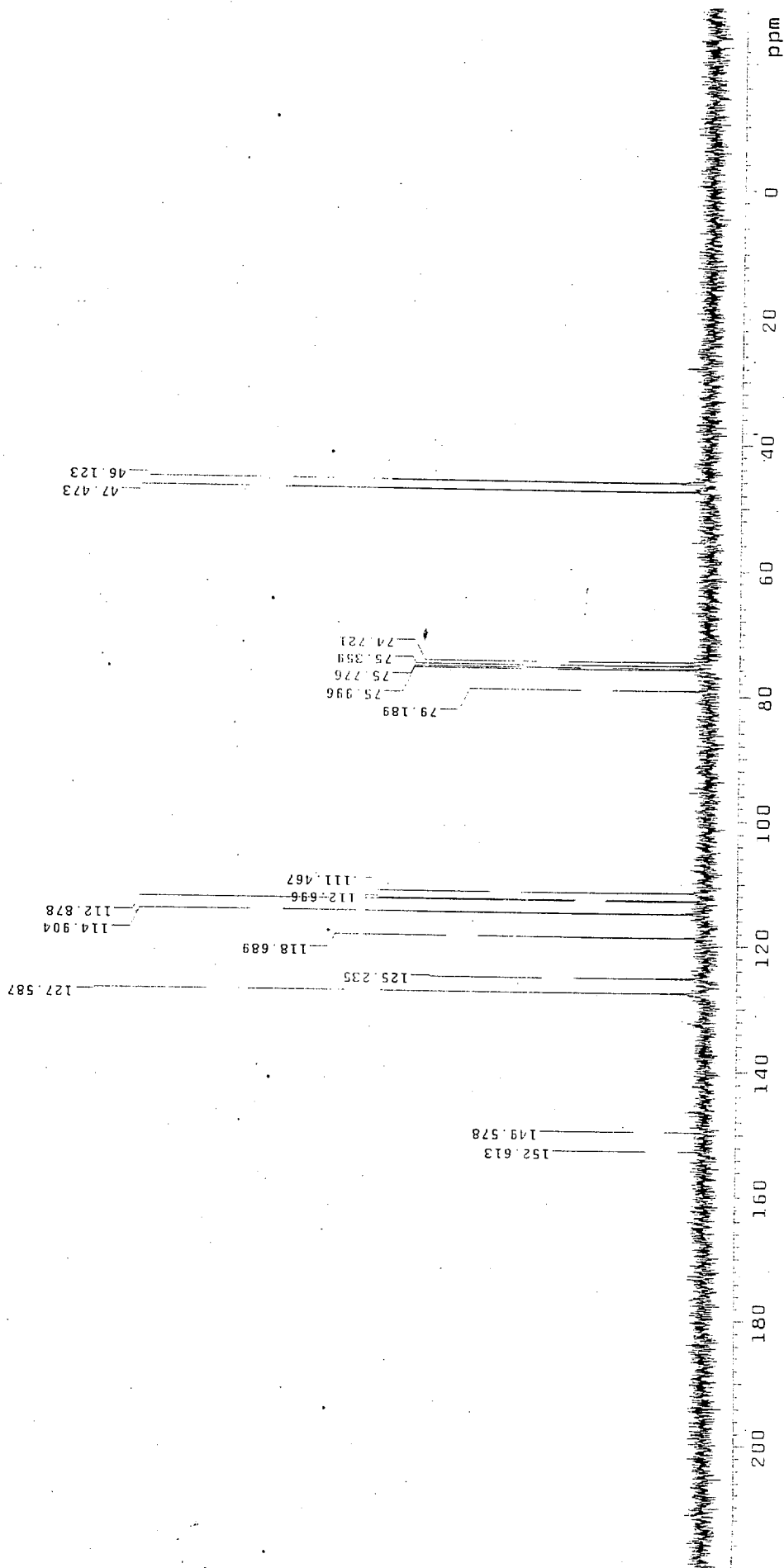
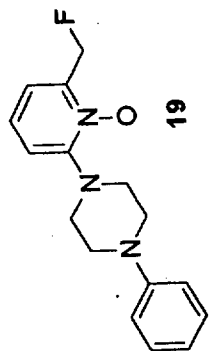
loro- $\alpha$ -fluoro-3-picoline N-Oxide,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (16)



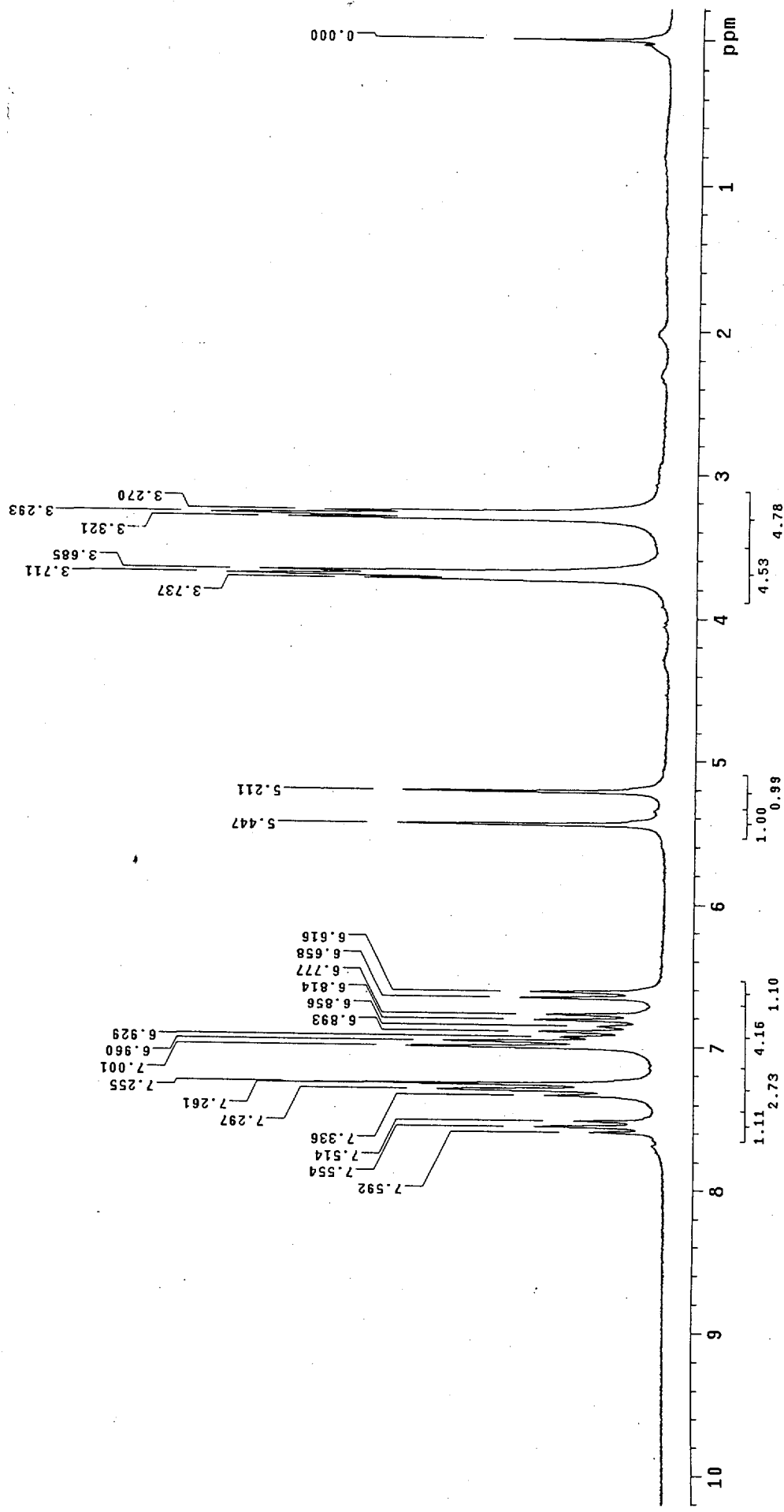
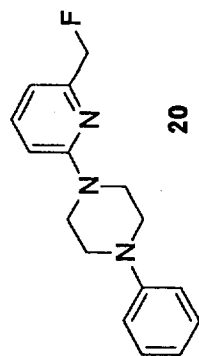
**$\alpha$ -Fluoro-6-(4-phenylpiperazinyl)-2-picoline N-Oxide,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (19)**



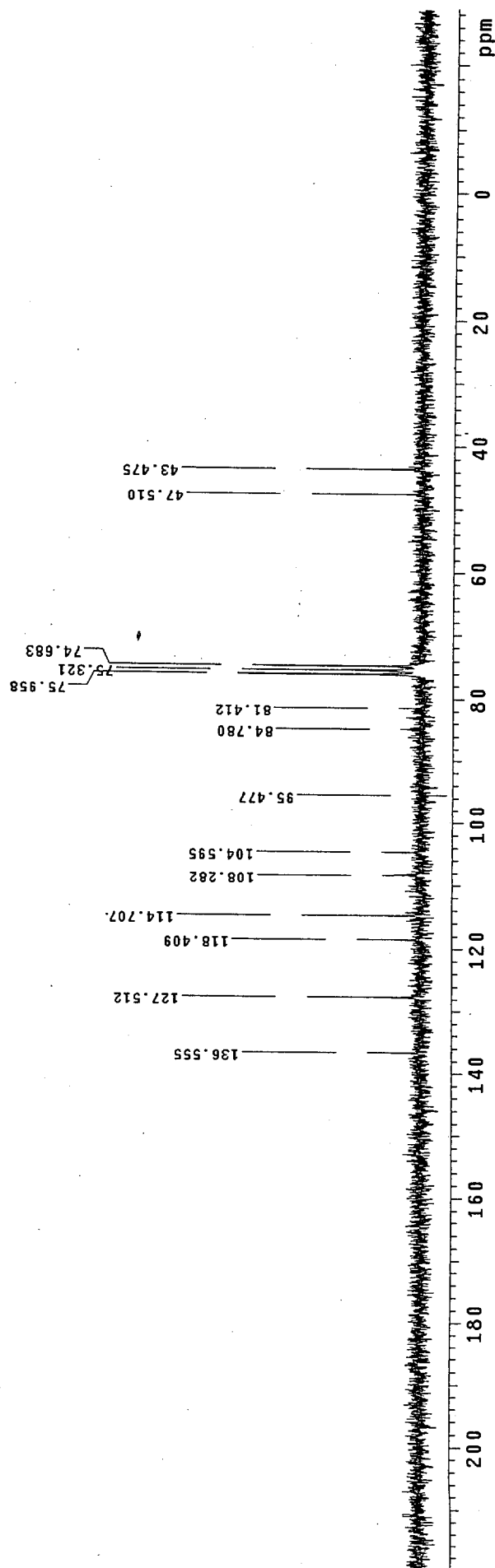
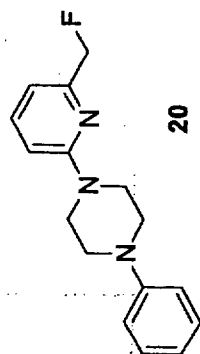
$\alpha$ -Fluoro-6-(4-phenylpiperazinyl)-2-picoline N-Oxide,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (19)

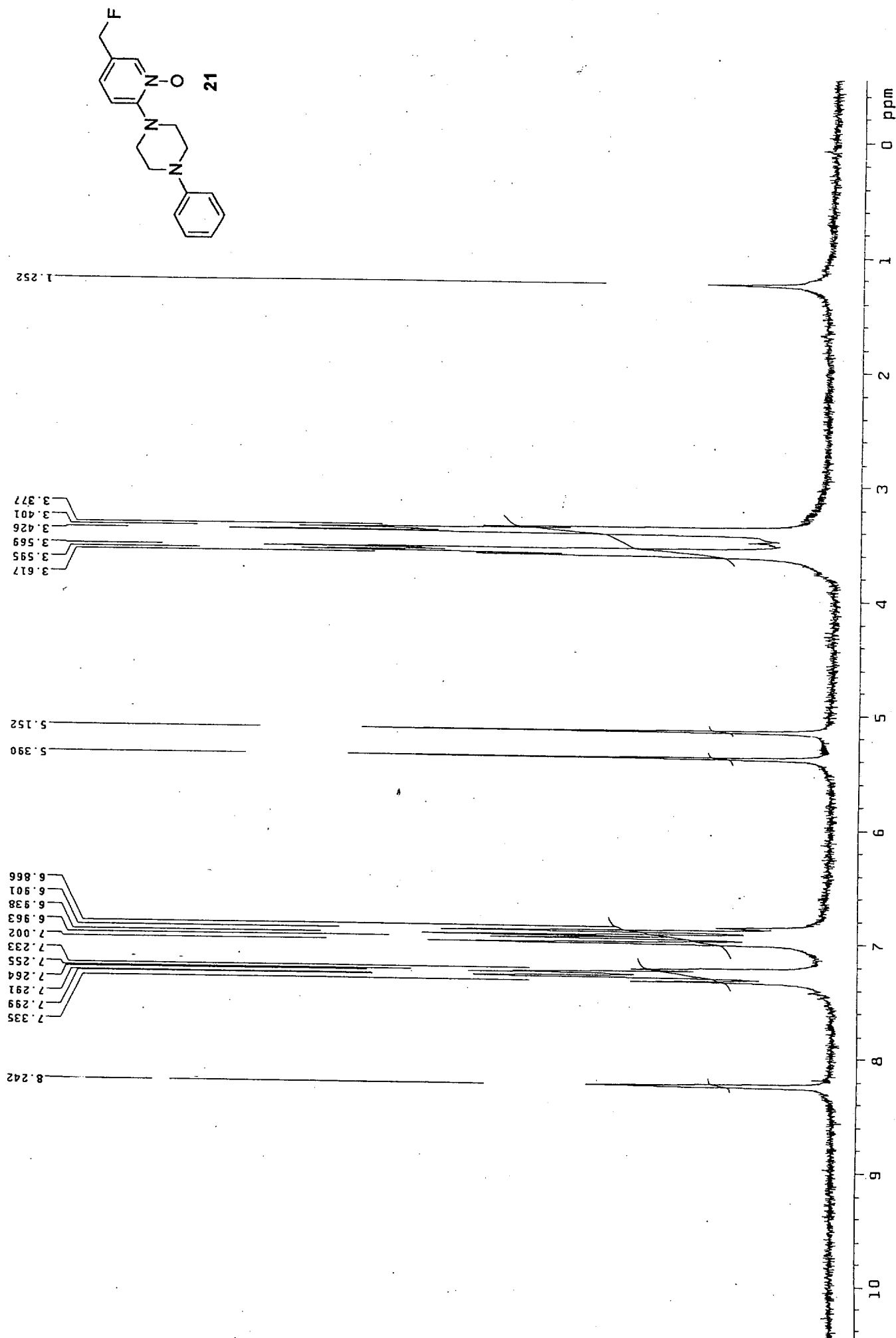


Fluoro-6-(4-phenylpiperazinyl)-2-picoline, <sup>1</sup>H NMR (200 MHz, CDCl<sub>3</sub>) (20)



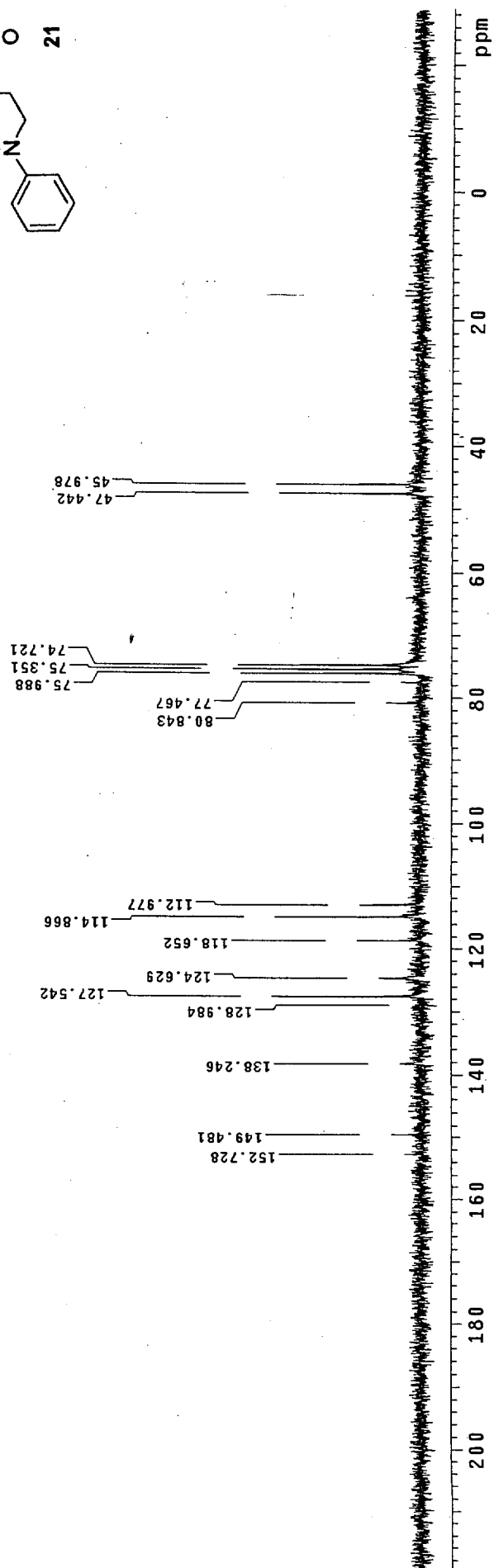
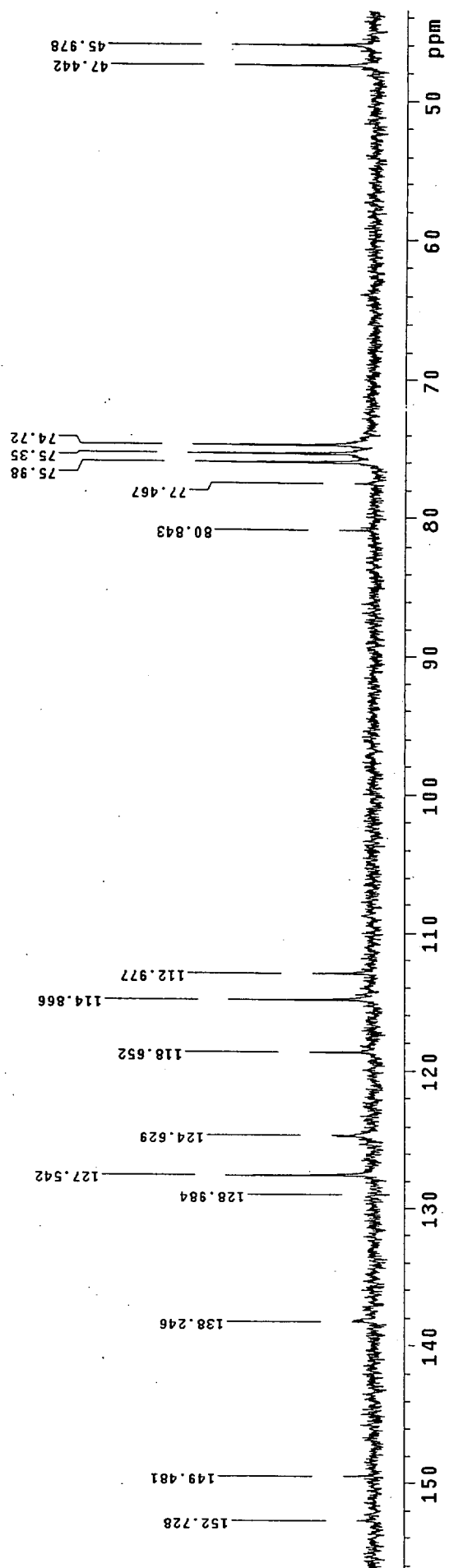
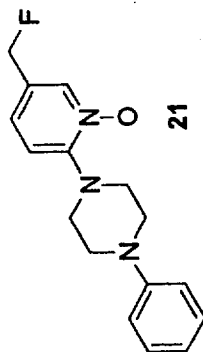
Fluoro-6-(4-phenylpiperazinyl)-2-picoline,  $^{13}\text{C}$  NMR (50 MHz,  $\text{CDCl}_3$ ) (20)



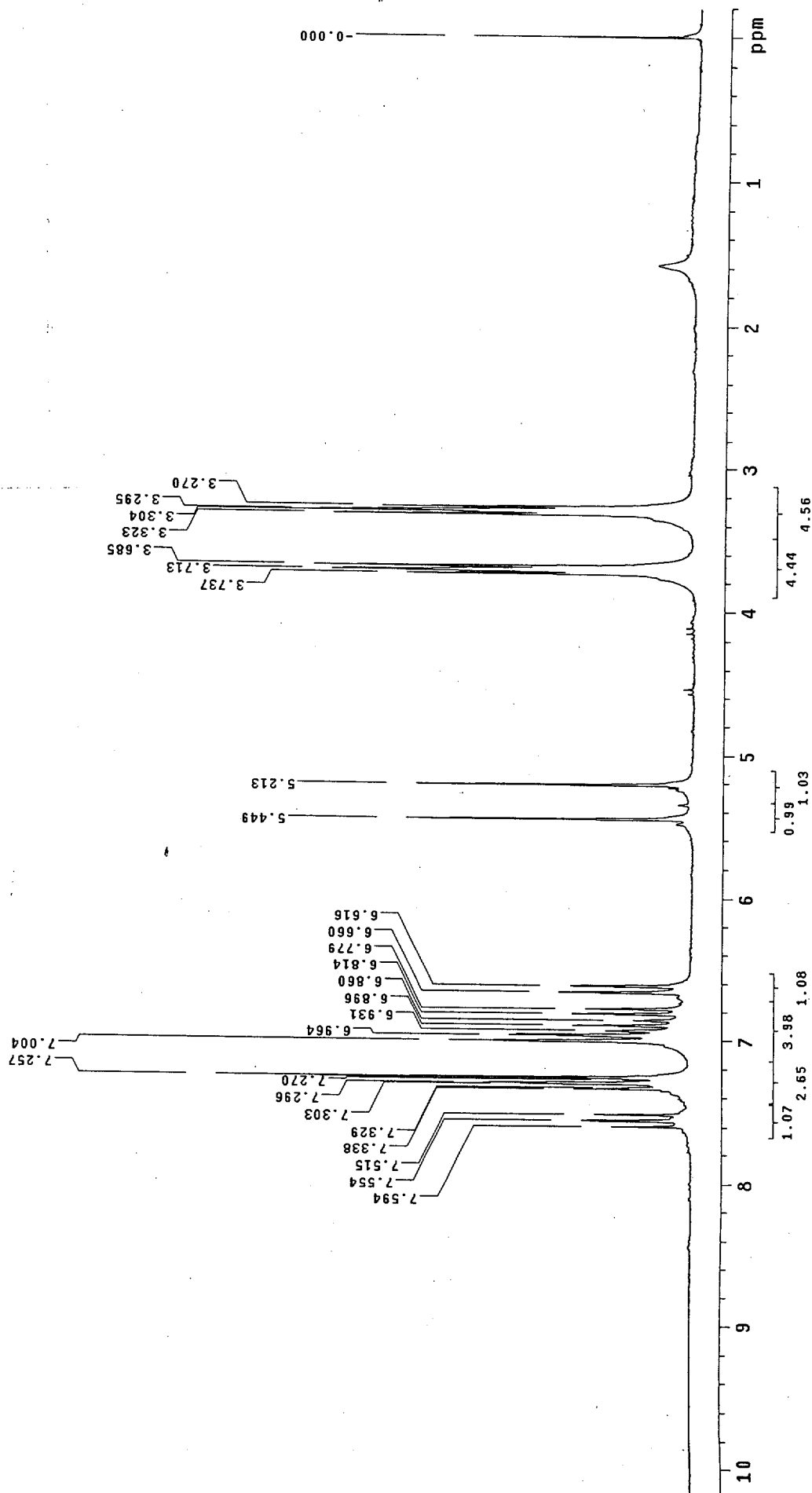
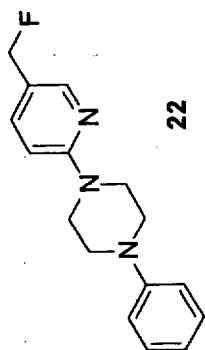


$\alpha$ -Fluoro-6-(4-phenylpiperazinyl)-3-picoline N-Oxide, <sup>1</sup>H NMR (200 MHz, CDCl<sub>3</sub>) (21)

$\alpha$ -Fluoro-6-(4-phenylpiperazinyl)-3-picoline N-Oxide, <sup>13</sup>C NMR (50 MHz, CDCl<sub>3</sub>) (21)



$\alpha$ -Fluoro-6-(4-phenylpiperazinyl)-3-picoline,  $^1\text{H}$  NMR (200 MHz,  $\text{CDCl}_3$ ) (22)



fluoro-6-(4-phenylpiperazinyl)-3-picoline, <sup>13</sup>C NMR (50 MHz, CDCl<sub>3</sub>) (22)

