

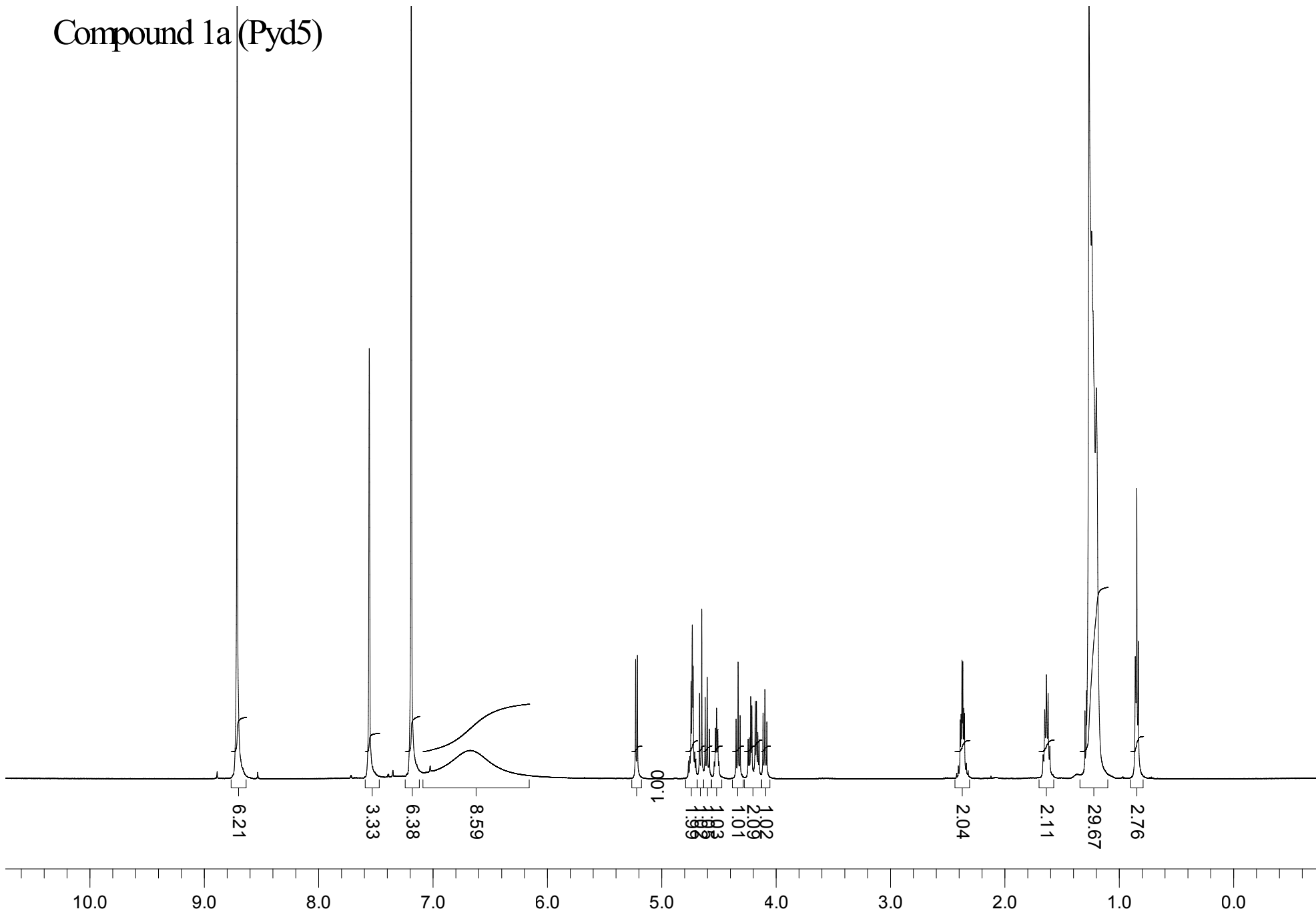
Anionic glycolipids related to glucuronosyldiacylglycerol inhibit protein kinase Akt

*Maria Vetro,^a Barbara Costa,^b Giulia Donvito,^b Noemi Arrighetti,^c Laura Cipolla,^b Paola Perego,^{*c} Federica Compostella,^a Fiamma Ronchetti,^a Diego Colombo^{*a}*

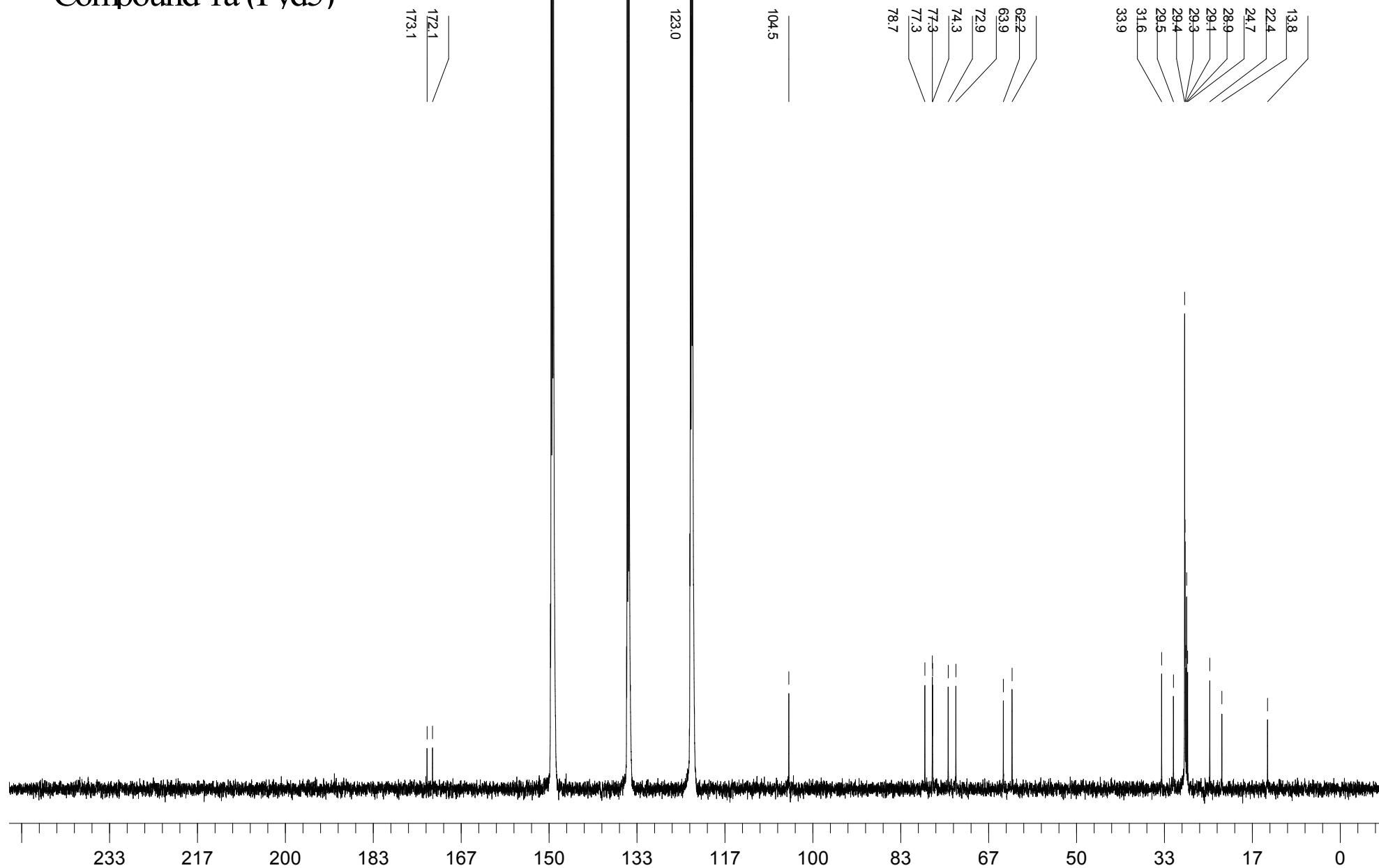
SUPPLEMENTARY INFORMATIONS : ¹H and ¹³C NMR spectra of the prepared compounds.

Page	S1	¹ H NMR of compound	1a	Page	S19	¹ H NMR of compound	5b
Page	S2	¹³ C NMR of compound	1a	Page	S20	¹³ C NMR of compound	5b
Page	S3	¹ H NMR of compound	1b	Page	S21	¹ H NMR of compound	6a
Page	S4	¹³ C NMR of compound	1b	Page	S22	¹³ C NMR of compound	6a
Page	S5	¹ H NMR of compound	2a	Page	S23	¹ H NMR of compound	6b
Page	S6	¹³ C NMR of compound	2a	Page	S24	¹³ C NMR of compound	6b
Page	S7	¹ H NMR of compound	2b	Page	S25	¹ H NMR of compound	7a
Page	S8	¹³ C NMR of compound	2b	Page	S26	¹³ C NMR of compound	7a
Page	S9	¹ H NMR of compound	3a	Page	S27	¹ H NMR of compound	7b
Page	S10	¹³ C NMR of compound	3a	Page	S28	¹³ C NMR of compound	7b
Page	S11	¹ H NMR of compound	3b	Page	S29	¹ H NMR of compound	8b
Page	S12	¹³ C NMR of compound	3b	Page	S30	¹³ C NMR of compound	8b
Page	S13	¹ H NMR of compound	4a	Page	S31	¹ H NMR of compound	1,3-di-O-decanoyl-2-O-(2',3',4',6'-tetra-O-chloroacetyl-β-D-glucopyranosyl)-sn-glycerol
Page	S14	¹³ C NMR of compound	4a	Page	S32	¹³ C NMR of compound	
Page	S15	¹ H NMR of compound	4b	Page	S33	¹ H NMR of compound	1-O-octadecanoyl-3-O-acetyl-2-O-(2',3',4',6'-tetra-O-acetyl-β-D-glucopyranosyl)-sn-glycerol
Page	S16	¹³ C NMR of compound	4b	Page	S34	¹³ C NMR of compound	
Page	S17	¹ H NMR of compound	5a				
Page	S18	¹³ C NMR of compound	5a				

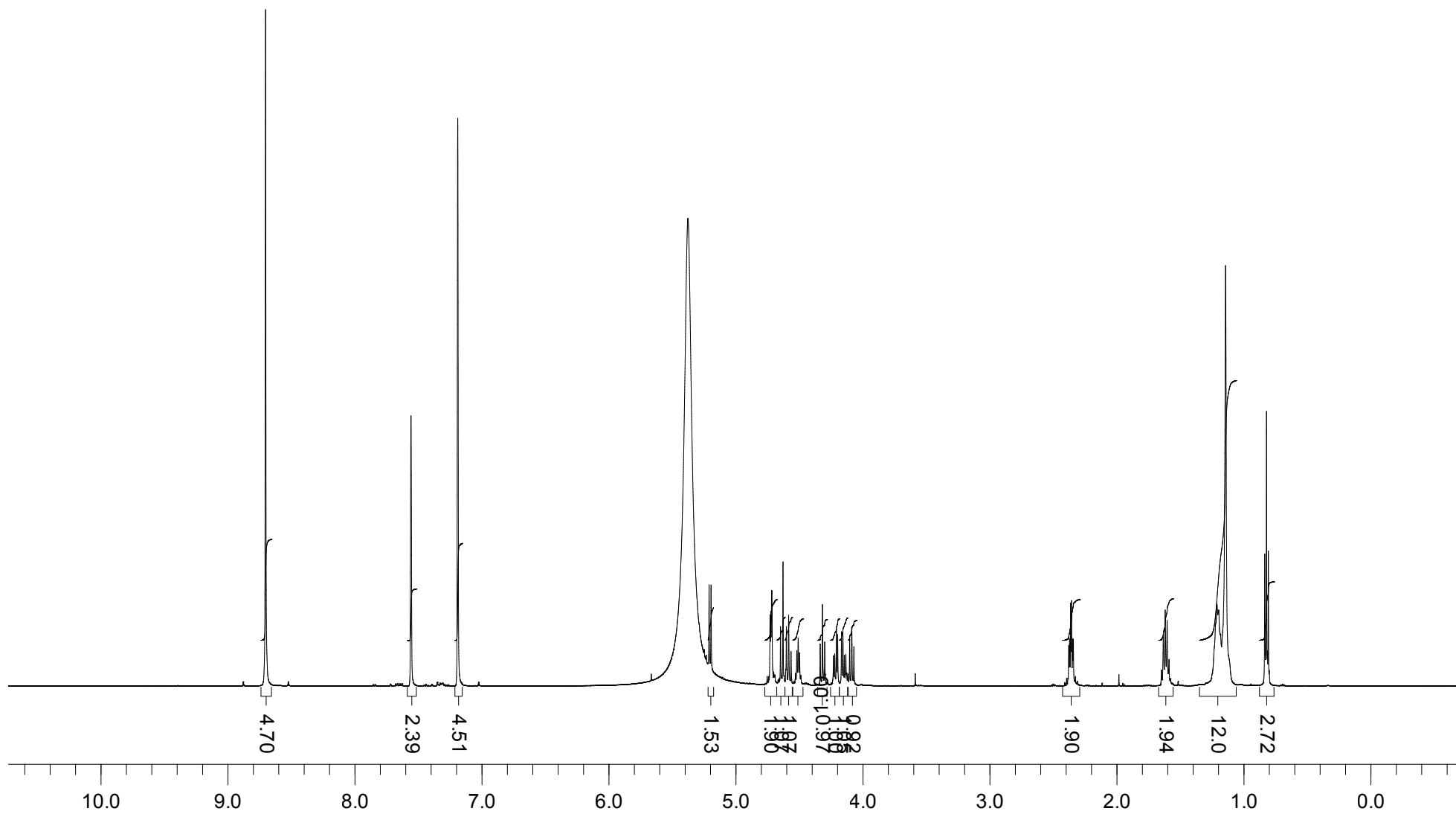
Compound 1a (Pyd5)



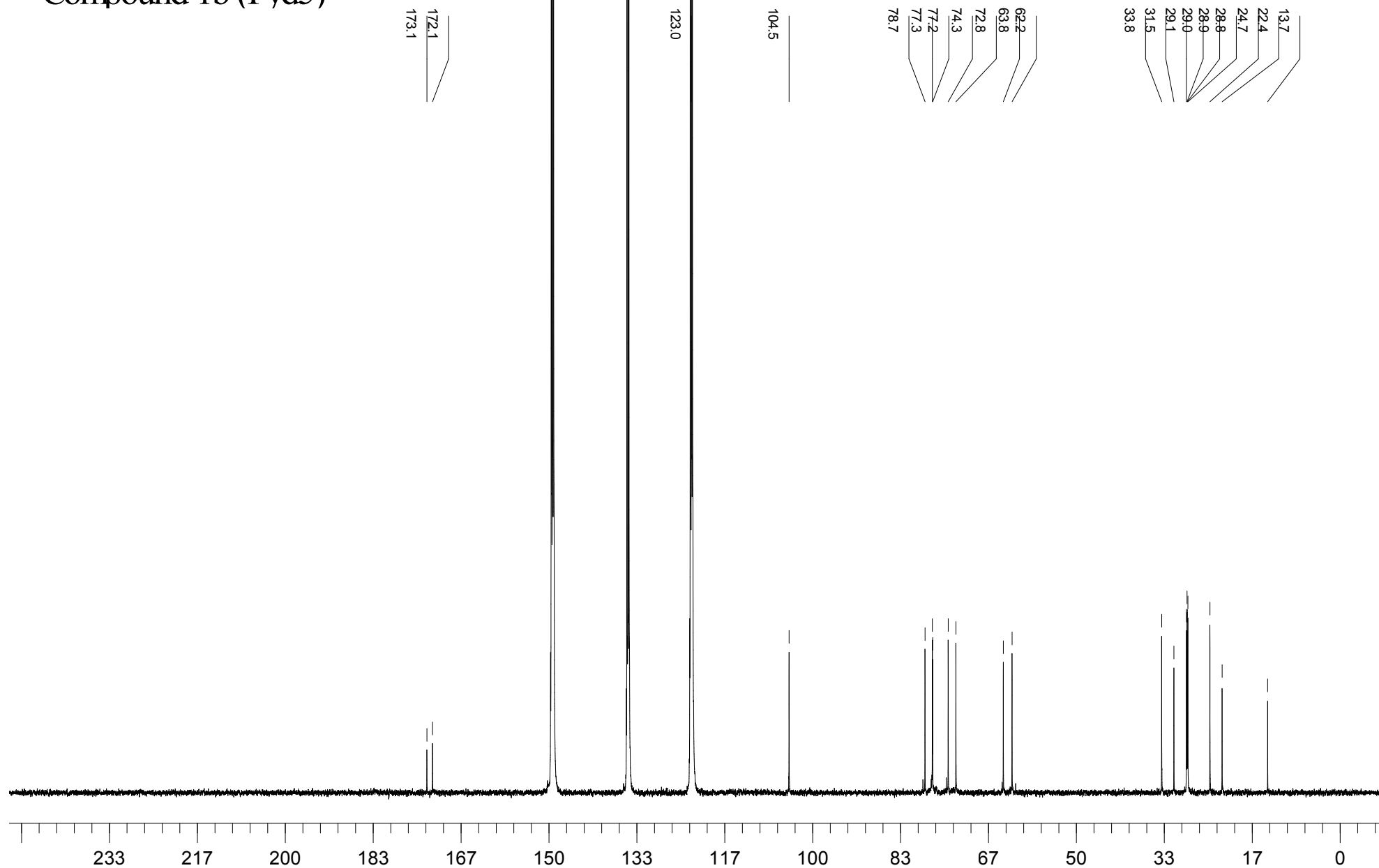
Compound 1a (Pyd5)



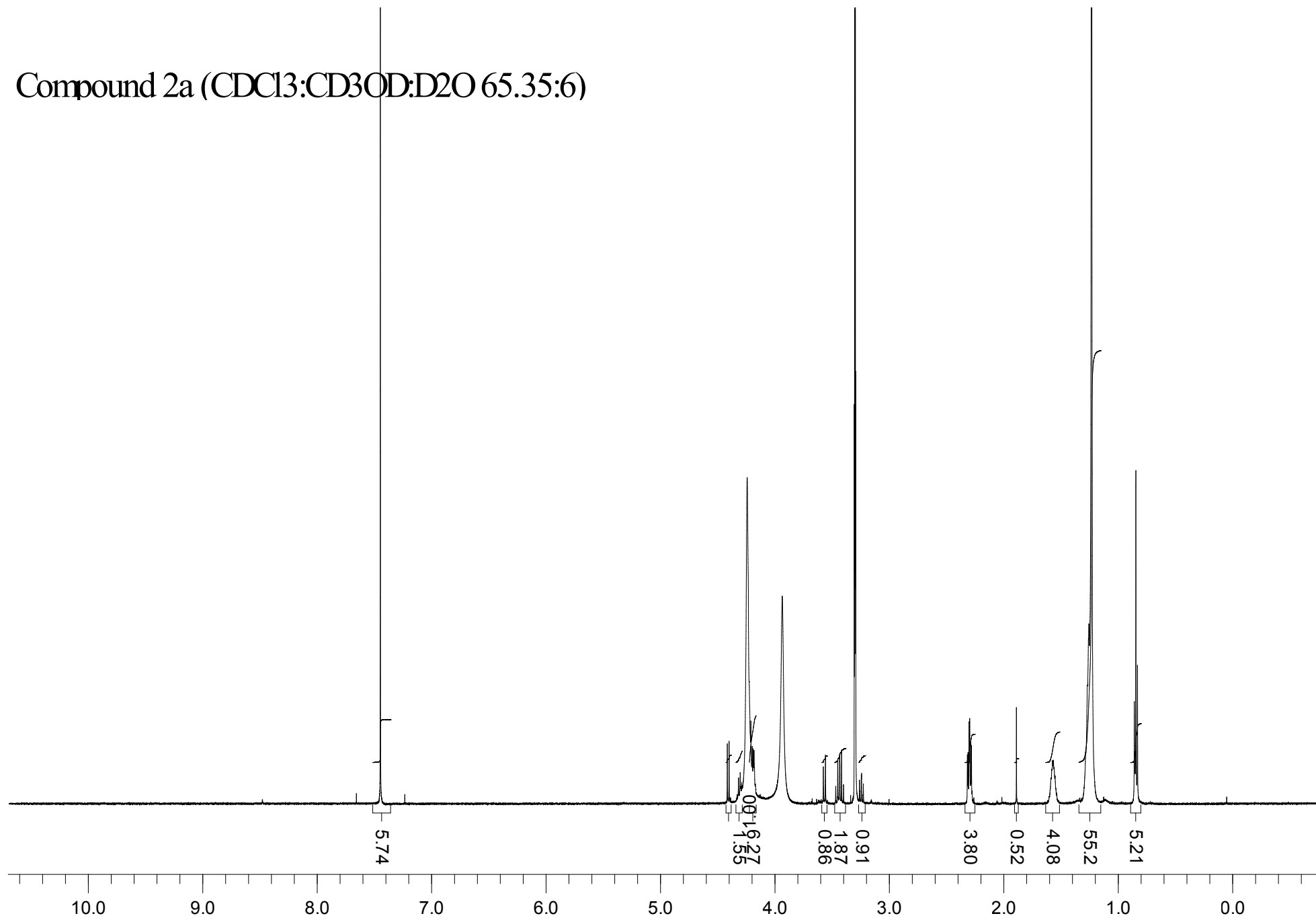
Compound 1b (Pyd5)



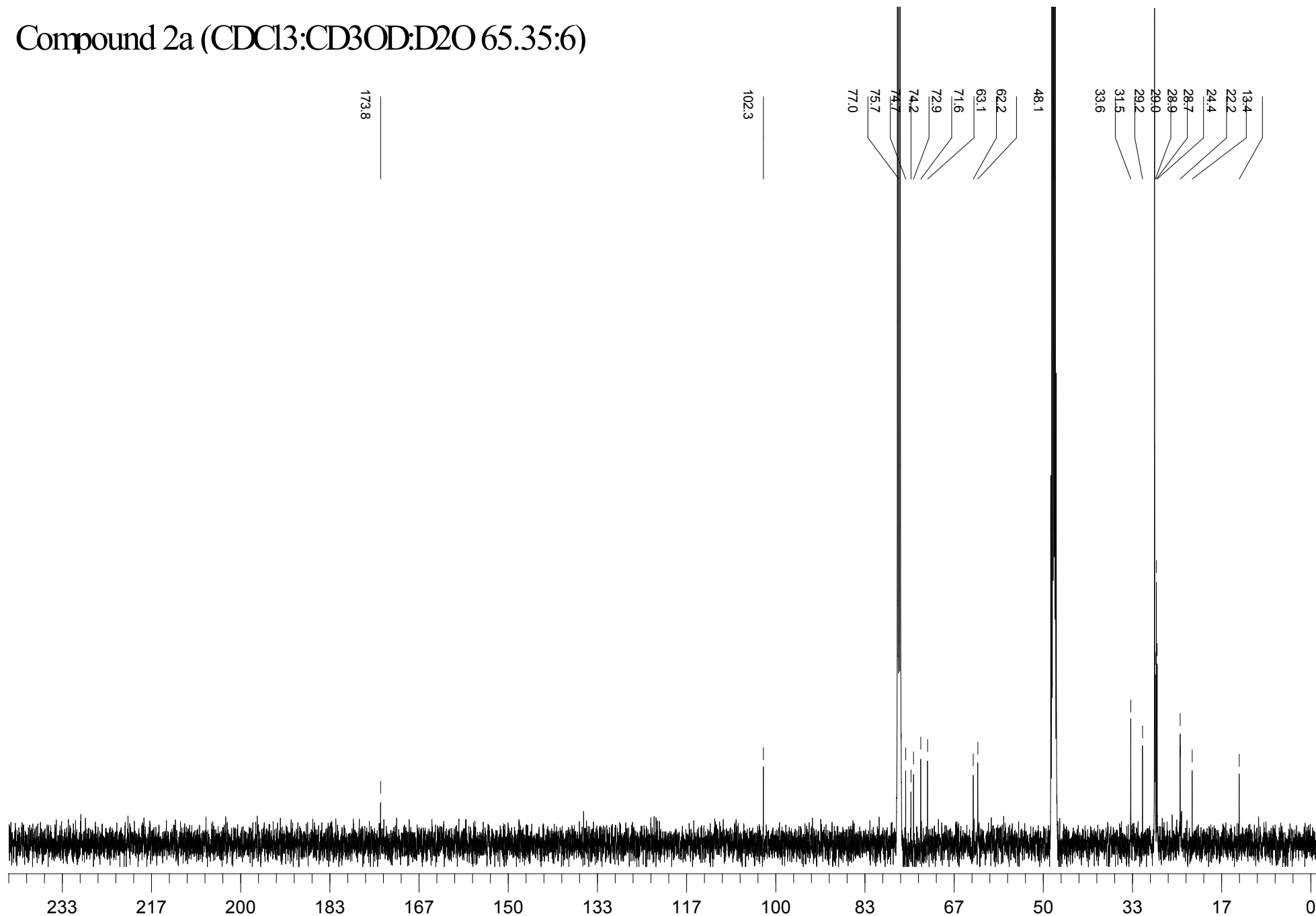
Compound 1b (Pvd5)



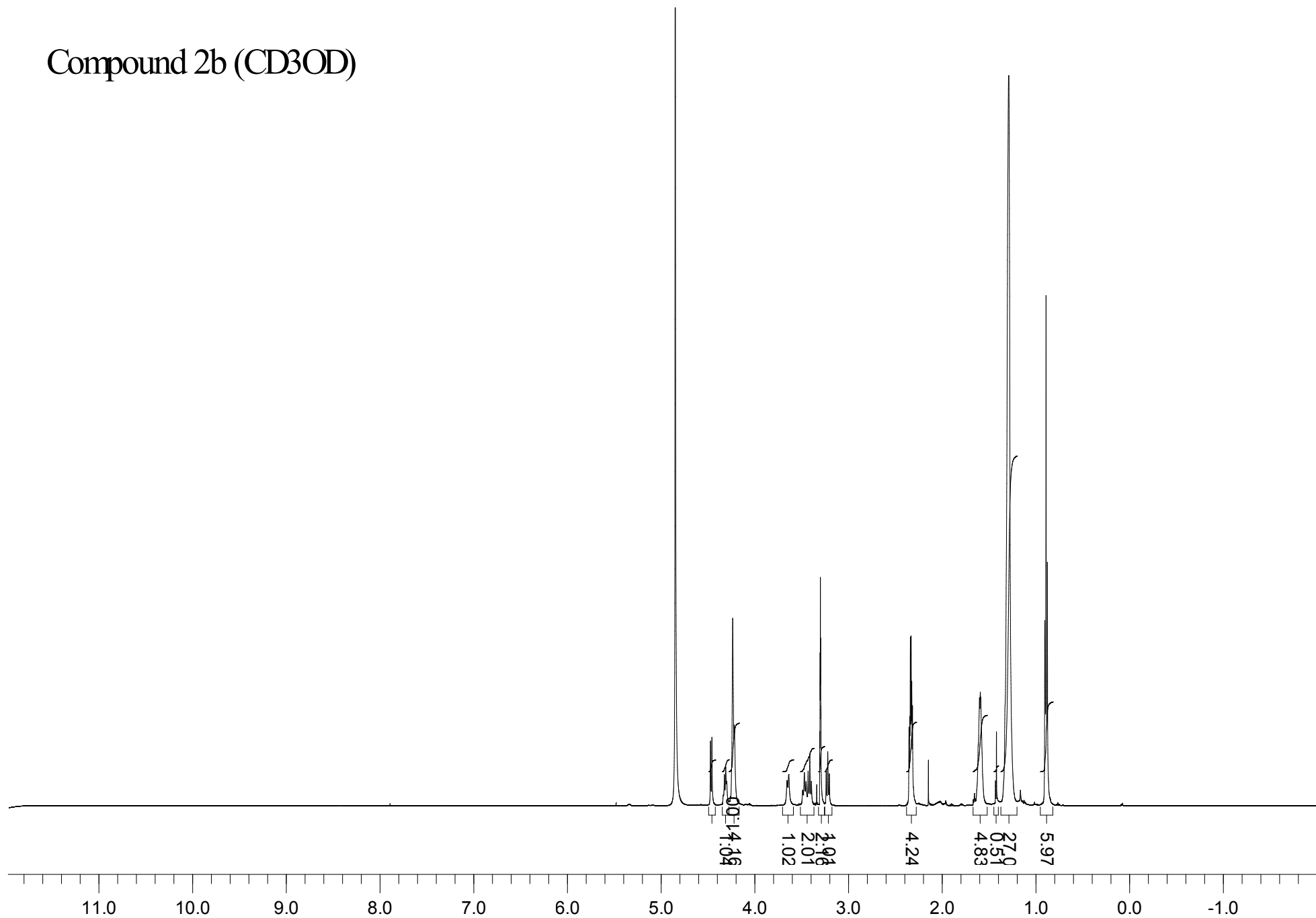
Compound 2a (CDCl₃:CD₃OD:D₂O 65:35:6)



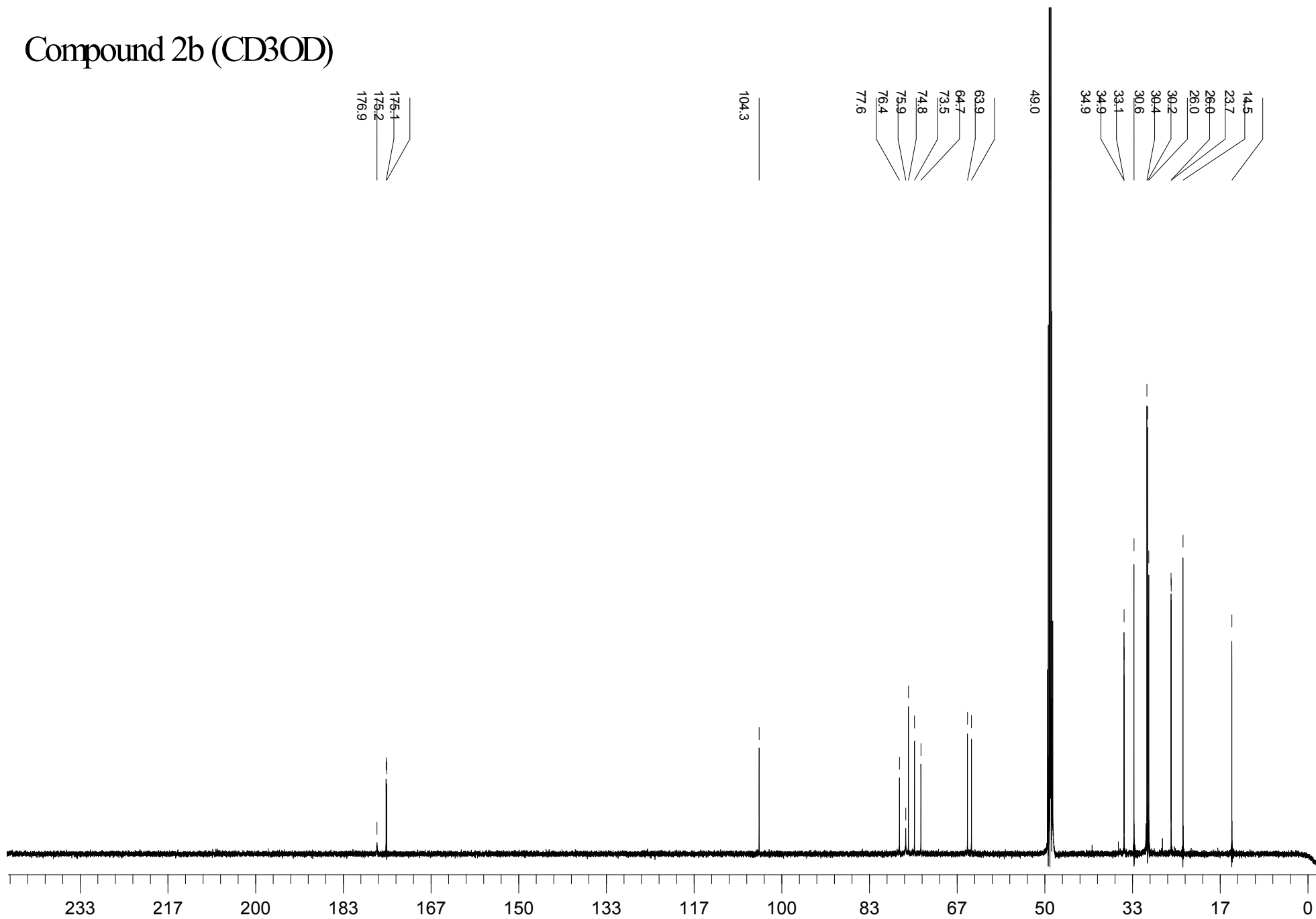
Compound 2a (CDCl₃:CD₃OD:D₂O 65.35:6)



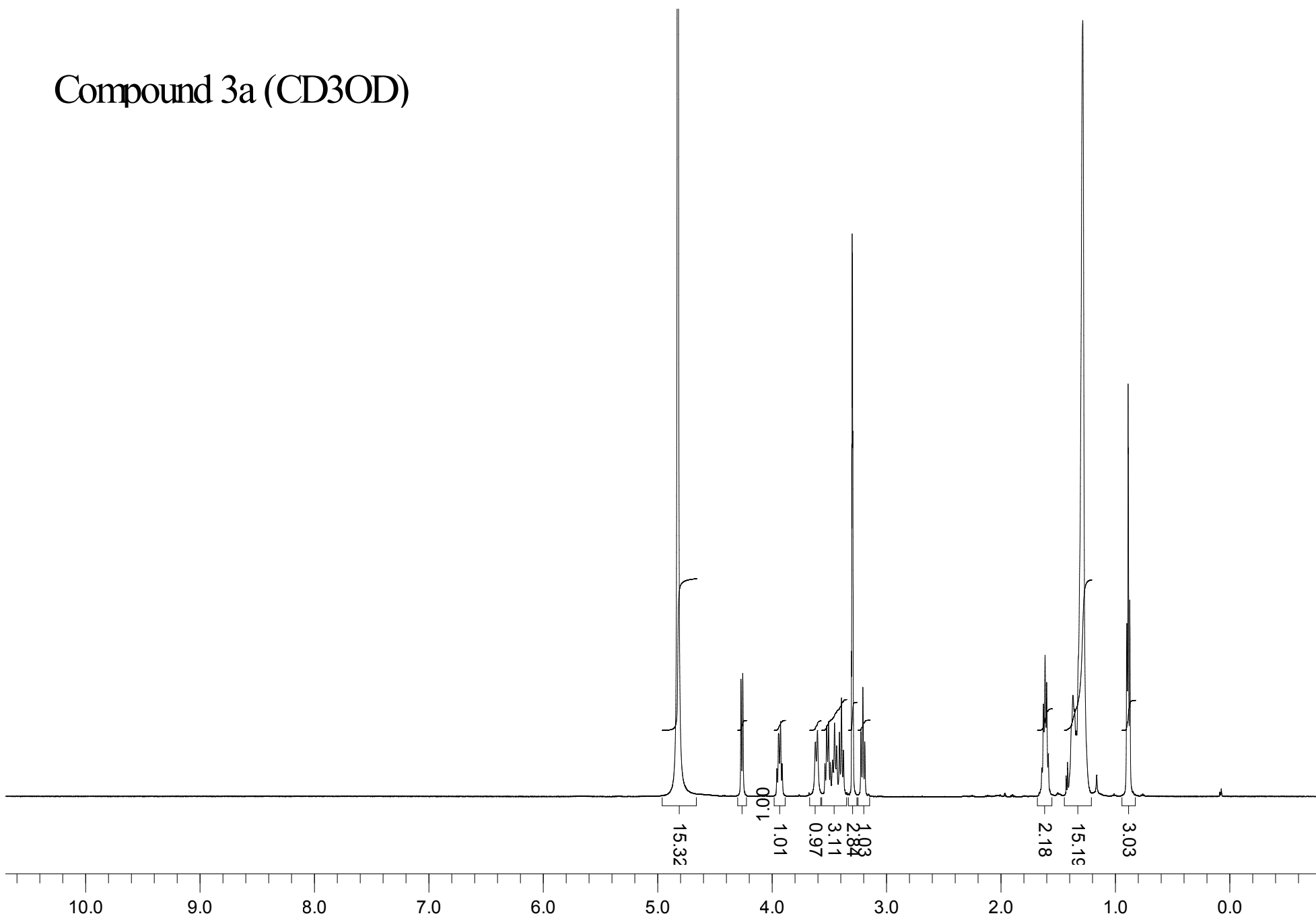
Compound 2b (CD3OD)



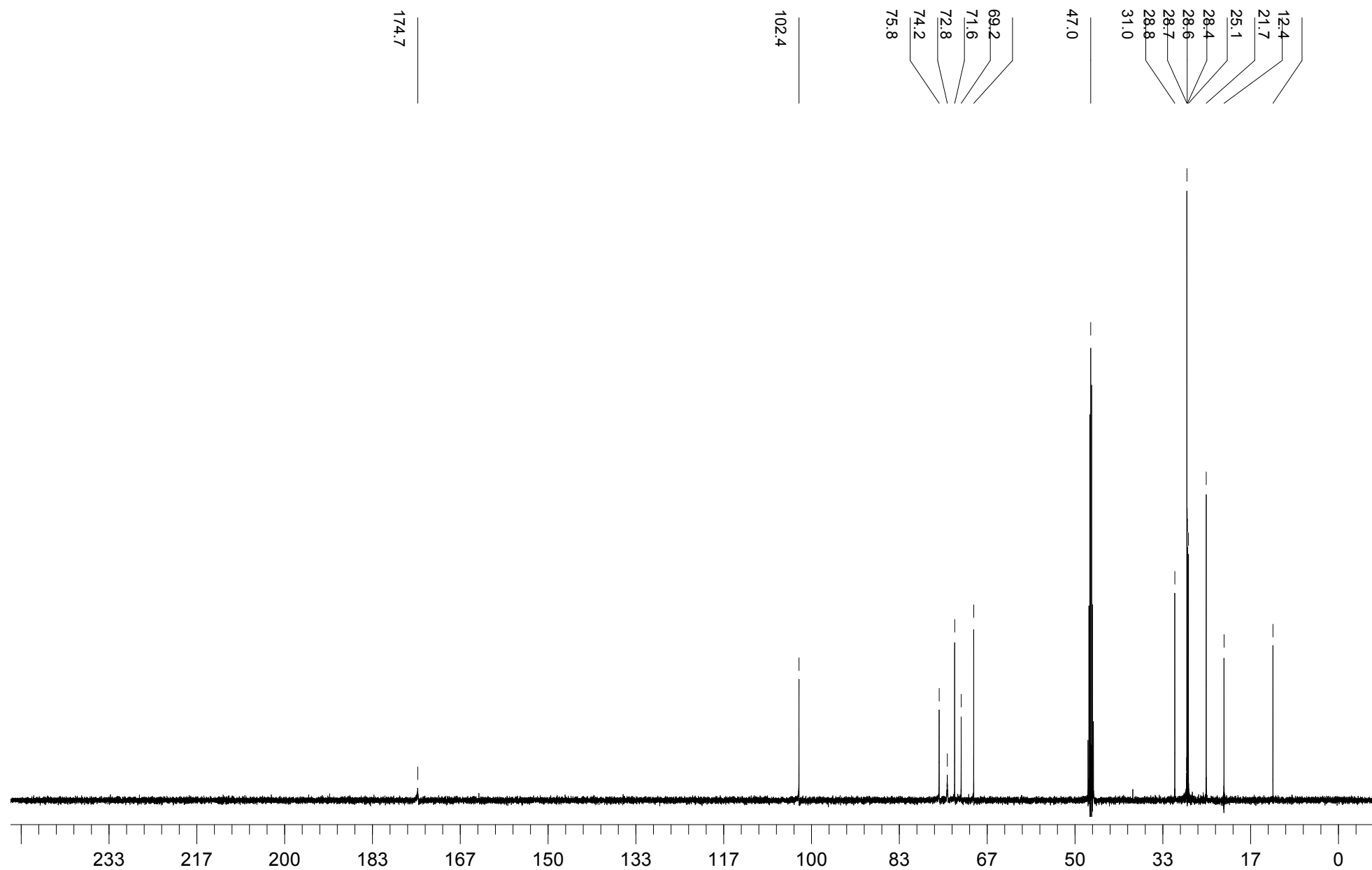
Compound 2b (CD3OD)



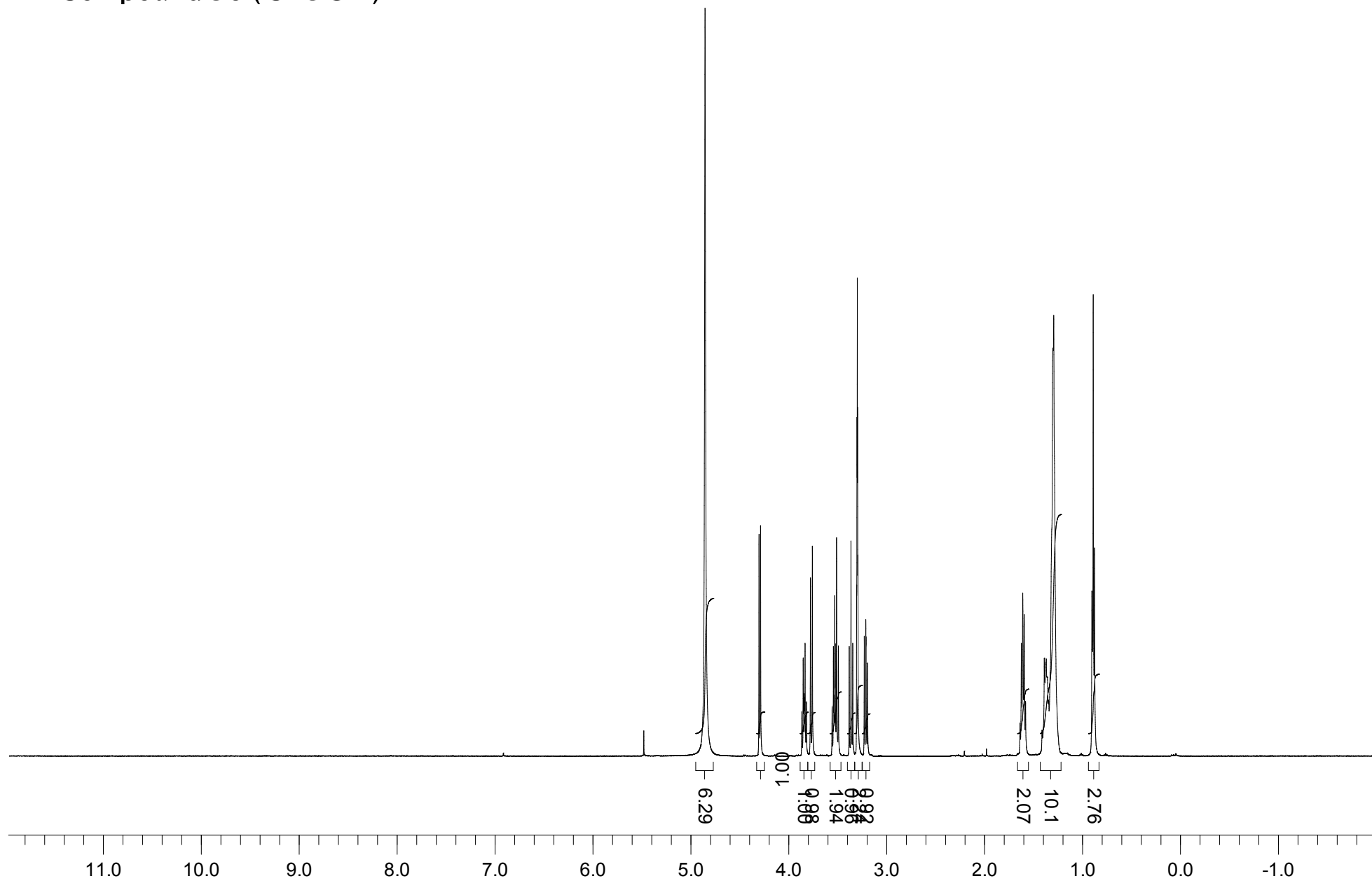
Compound 3a (CD3OD)



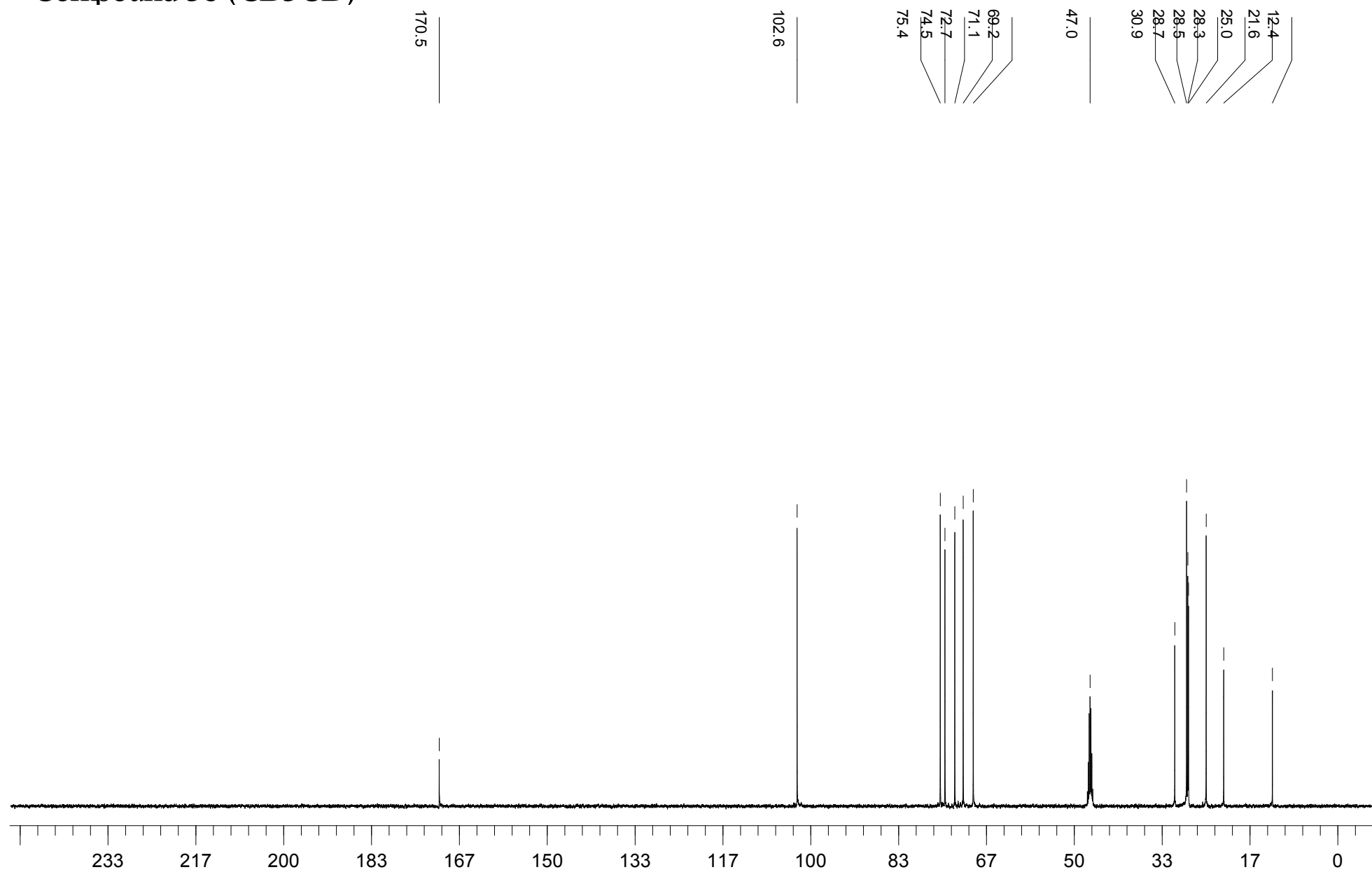
Compound 3a (CD3OD)



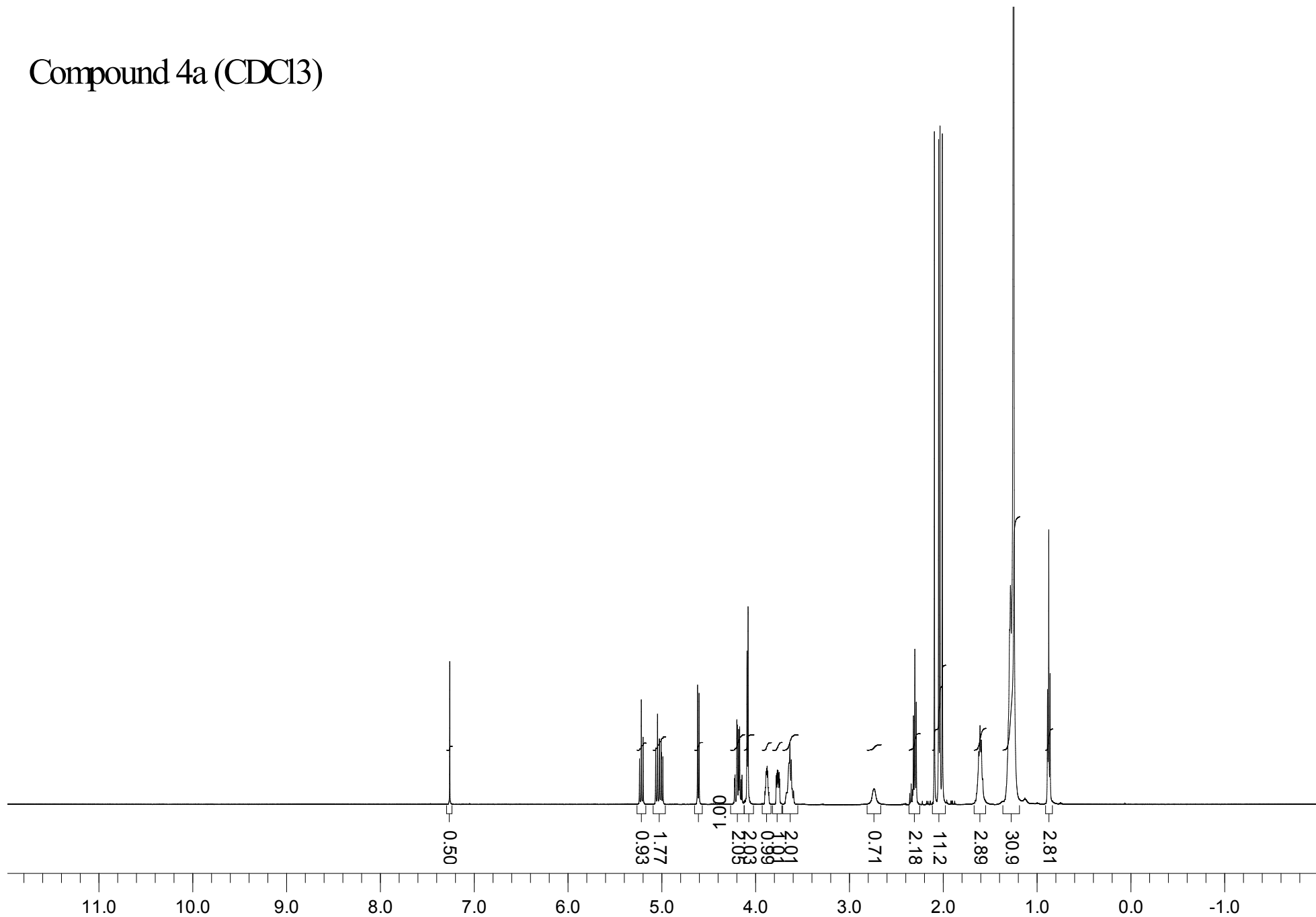
Compound 3b (CD3OD)



Compound 3b (CD3OD)



Compound 4a (CDCl₃)

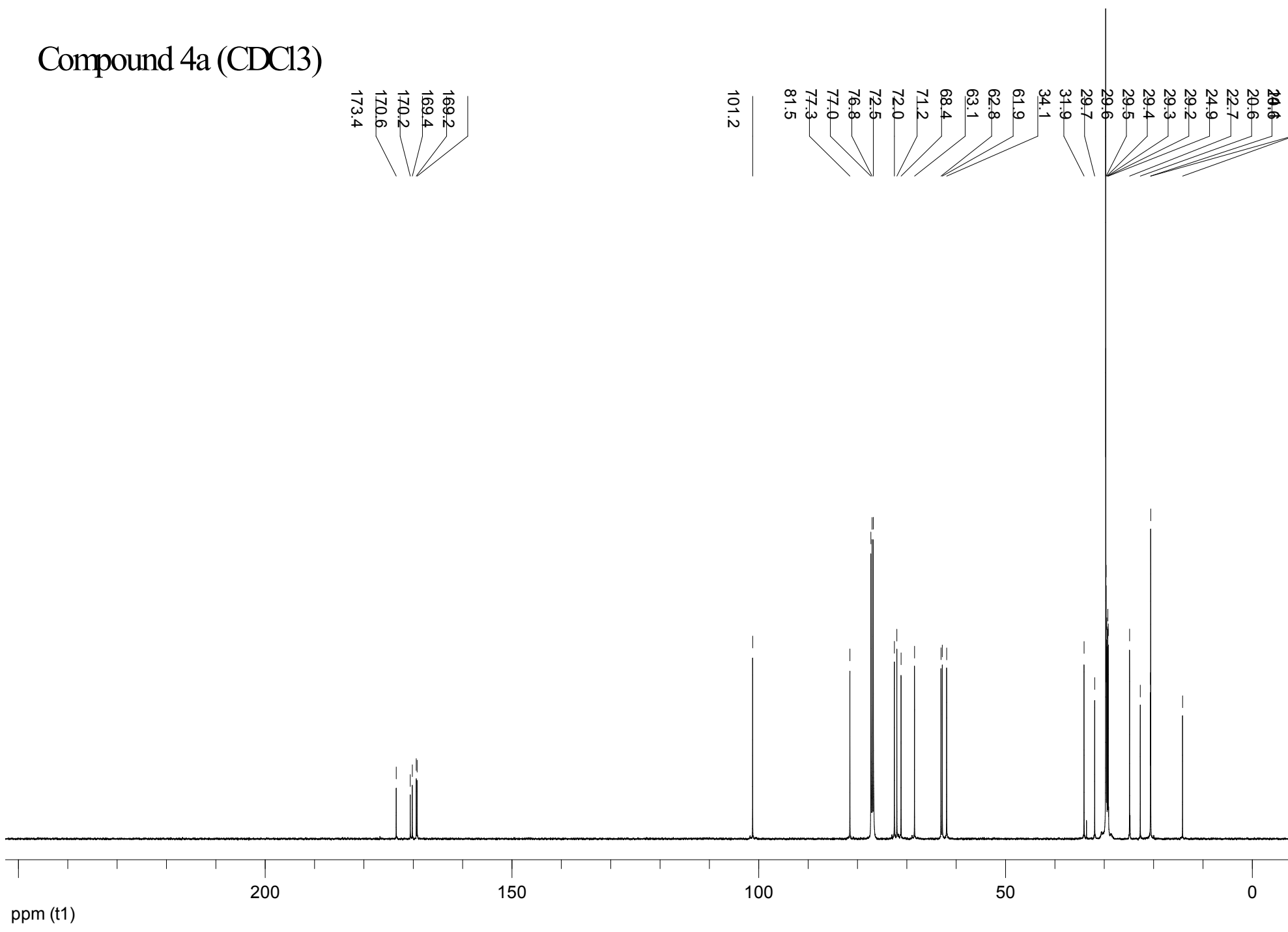


Compound 4a (CDCl₃)

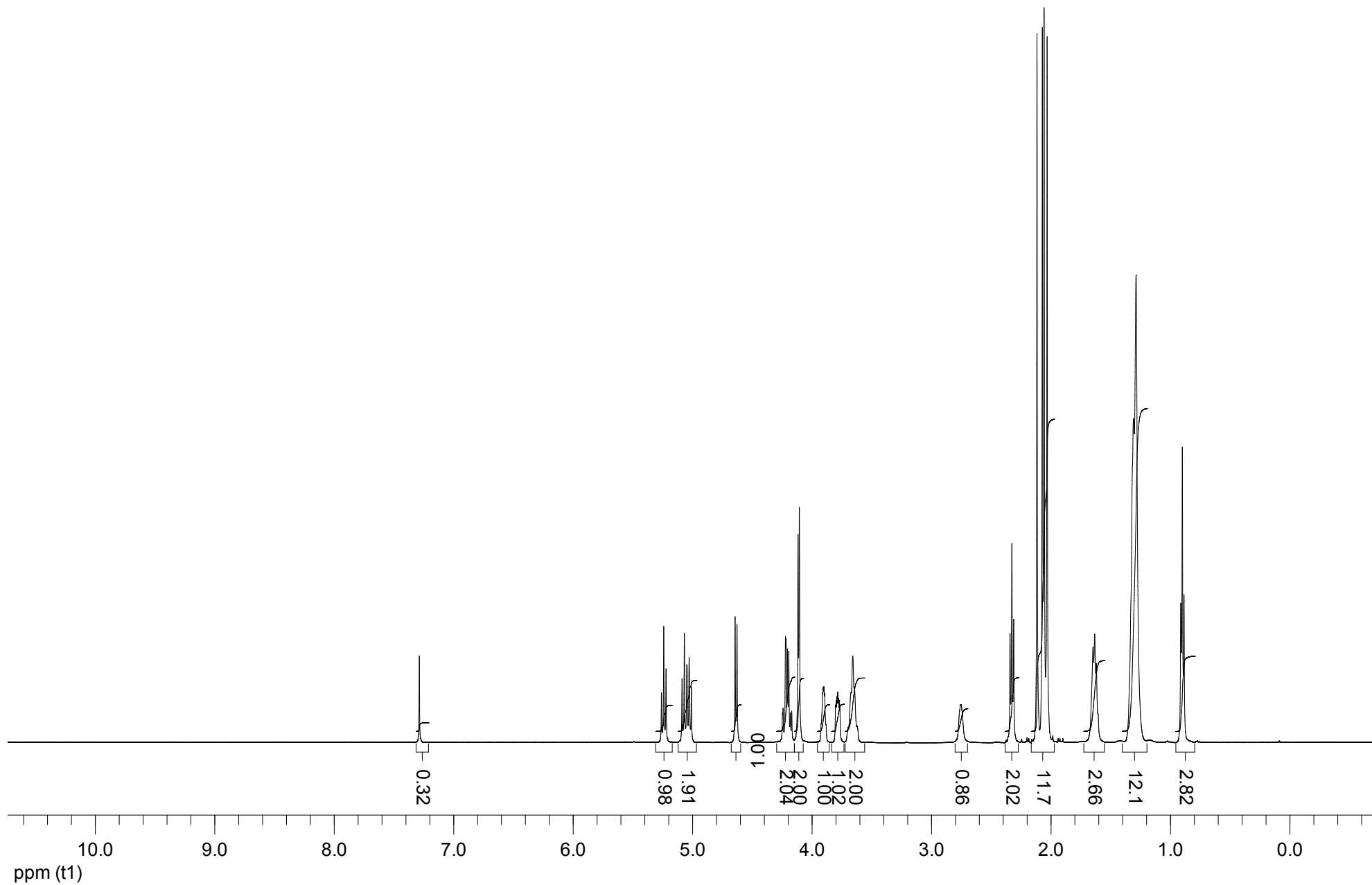
169.2
169.4
170.2
170.6
173.4

101.2

81.5
77.3
77.0
76.8
72.5
72.0
71.2
68.4
63.1
62.8
61.9
34.1
31.9
29.7
29.6
29.5
29.4
29.3
29.2
24.9
22.7
20.6
20.4



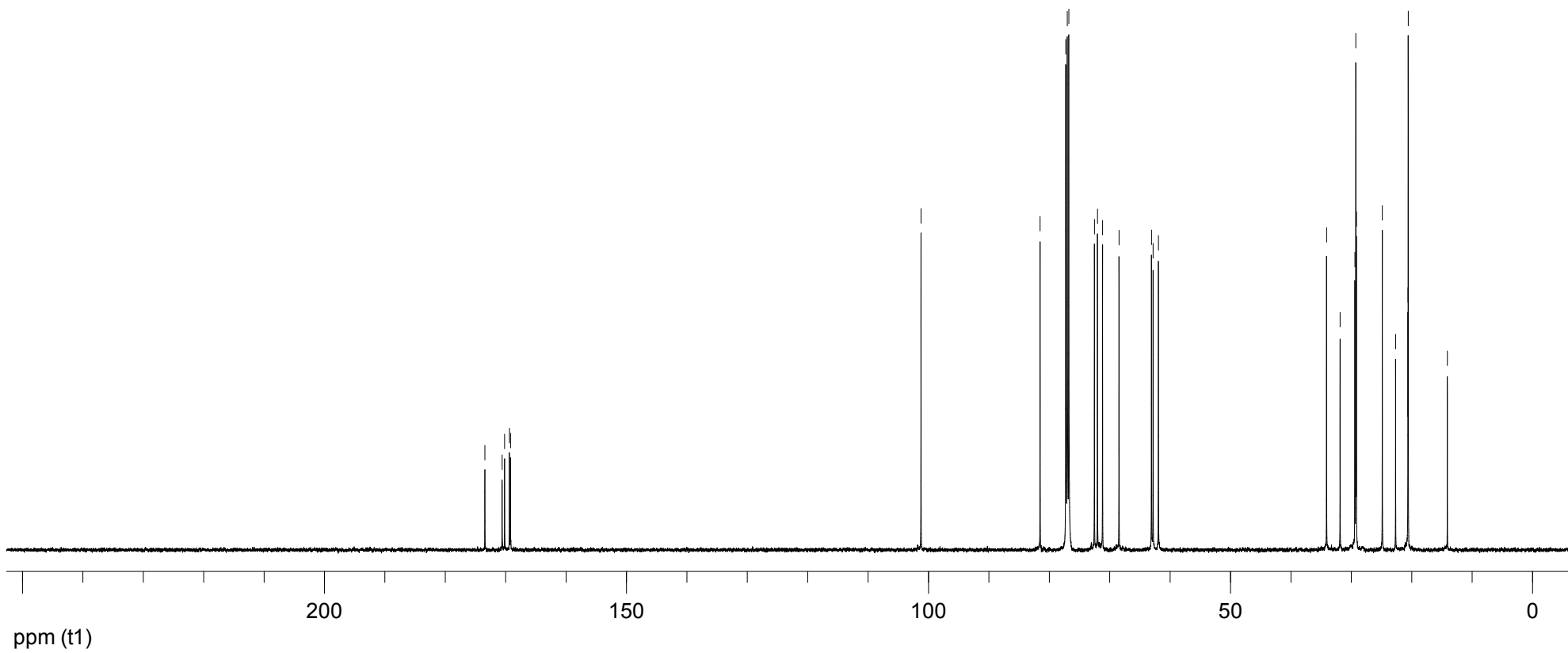
Compound 4b (CDCl₃)



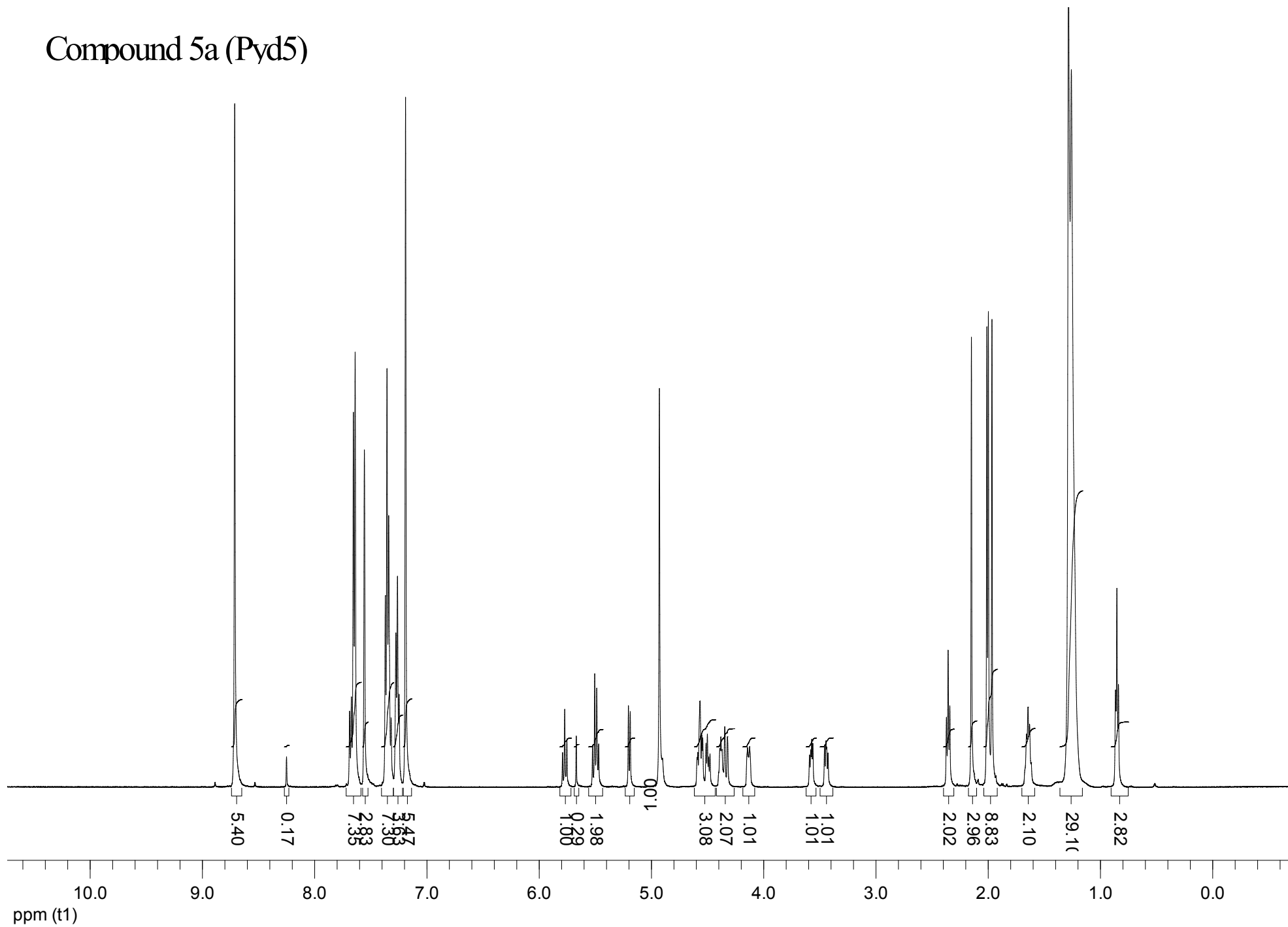
Compound 4b (CDCl₃)

169.2
169.4
170.2
170.6
173.4

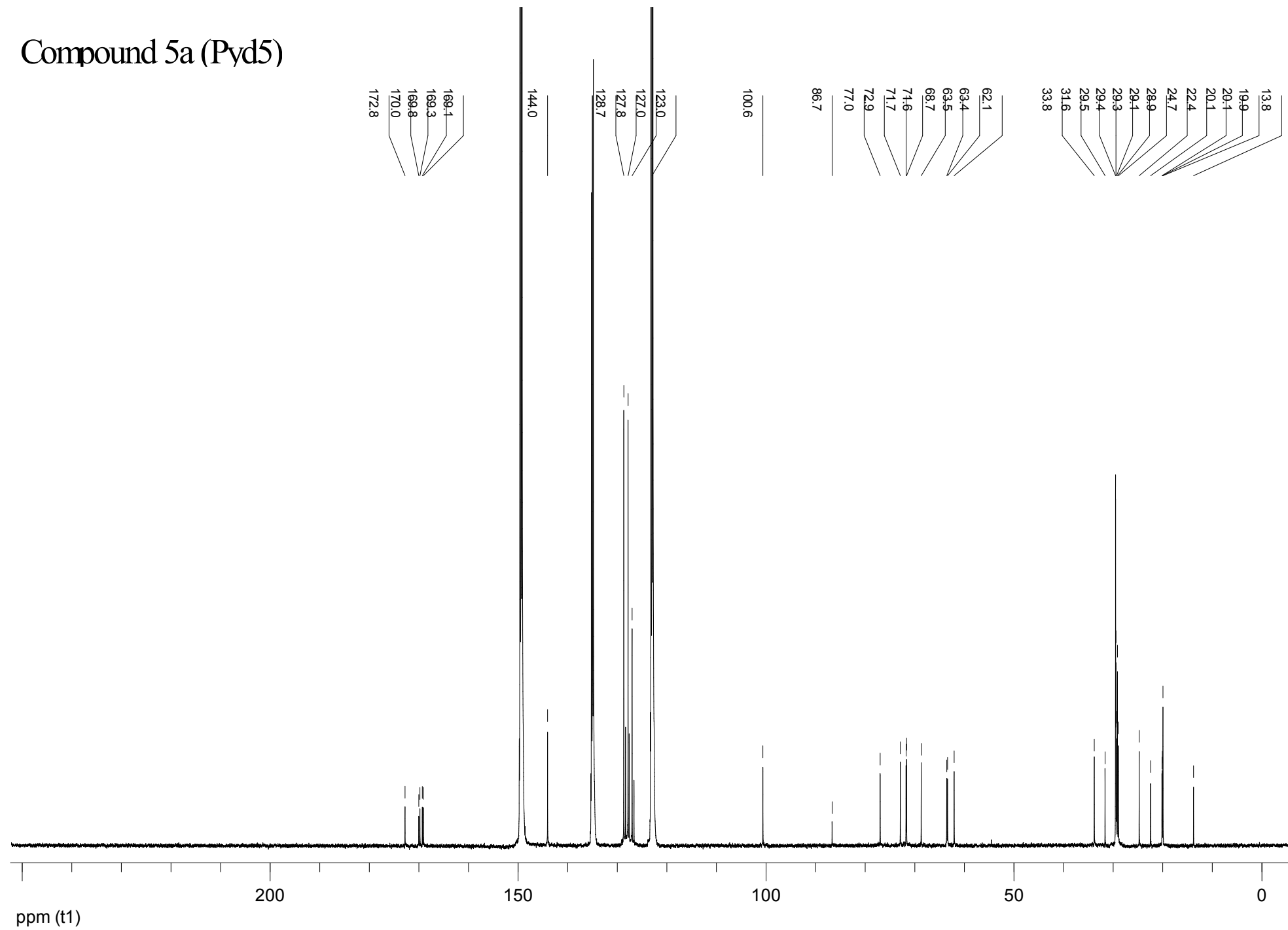
14.1
20.6
20.6
20.6
22.7
24.9
29.1
29.2
29.4
34.8
34.1
61.9
62.8
63.1
68.4
71.2
72.0
72.5
76.8
77.0
77.3
81.5
101.2



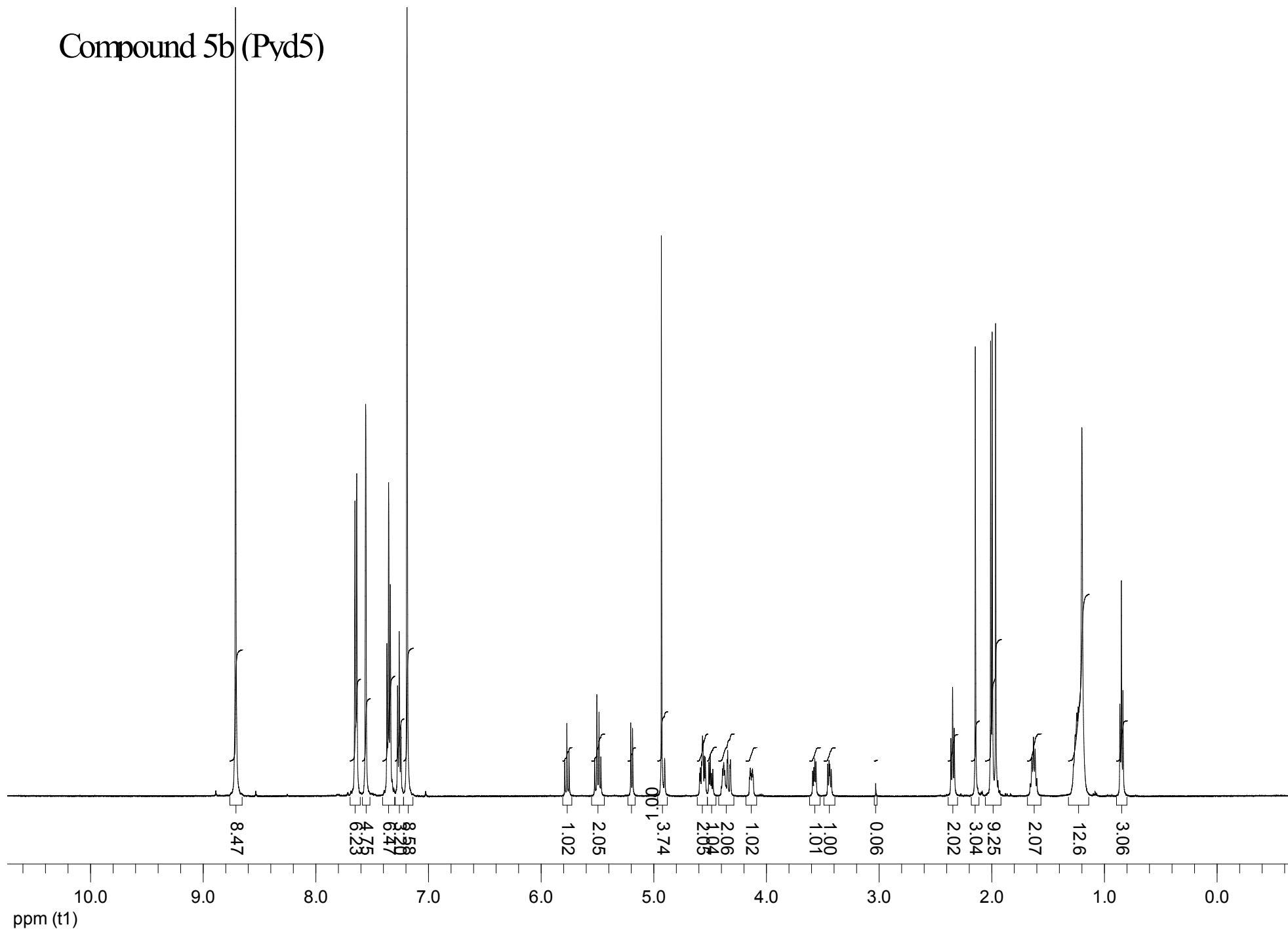
Compound 5a (Pyd5)



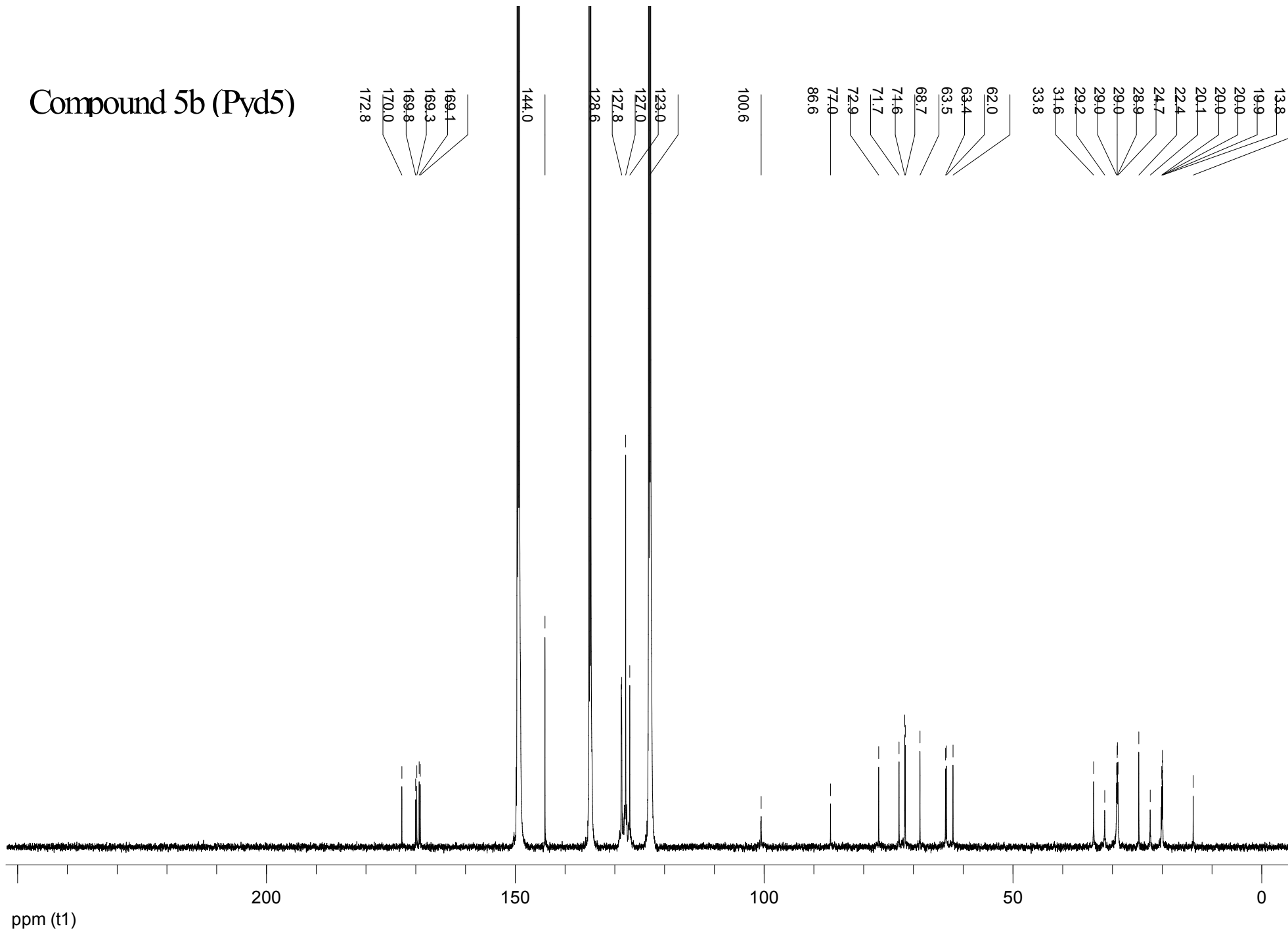
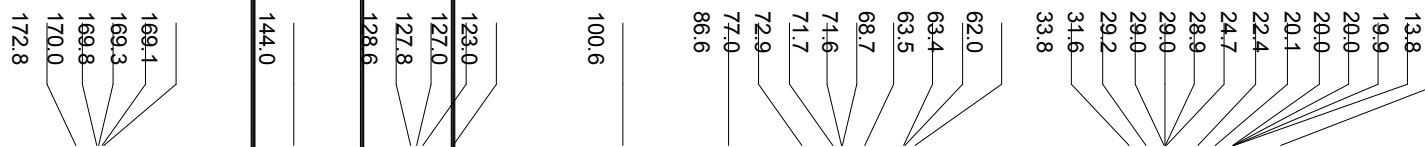
Compound 5a (Pyd5)



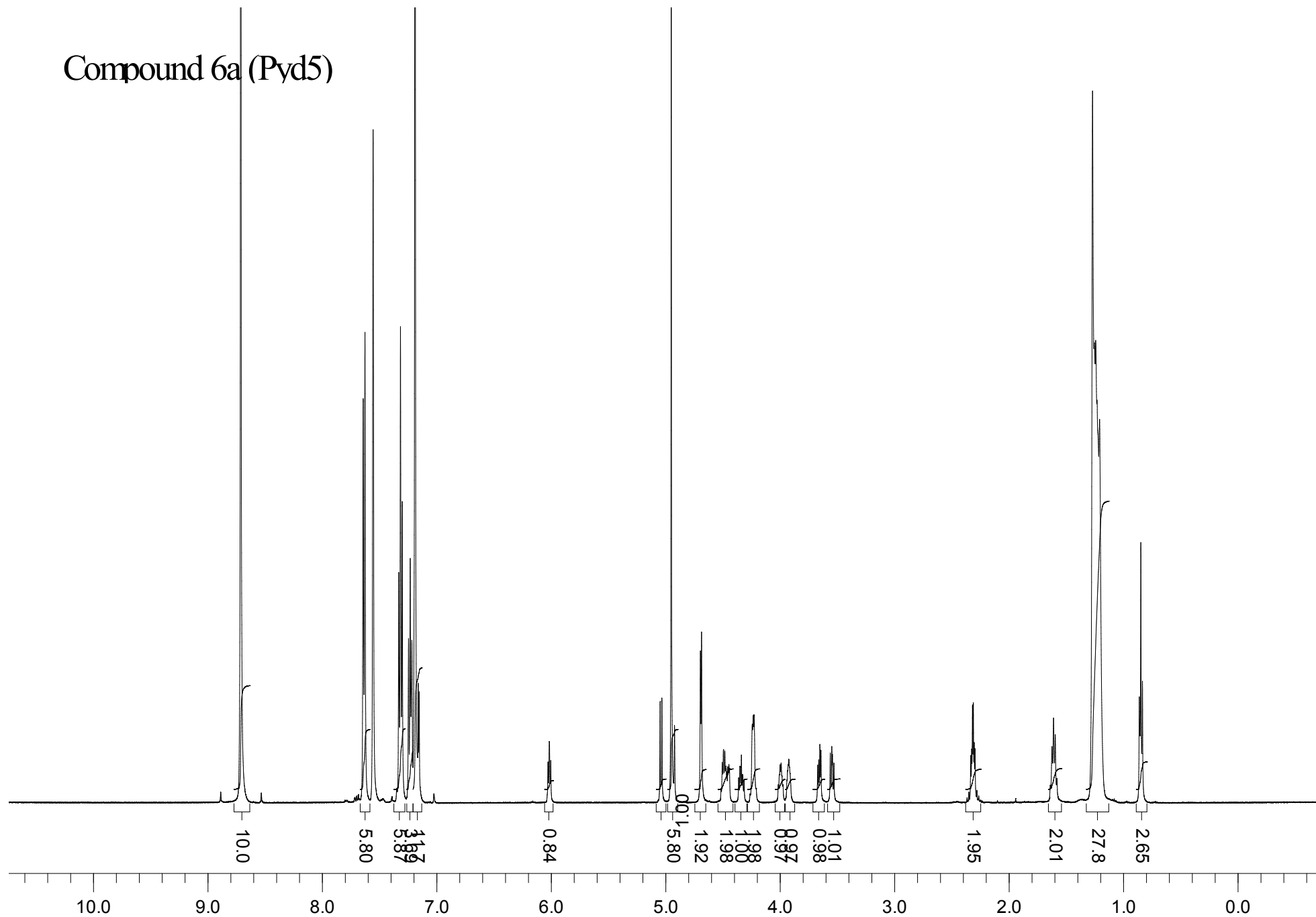
Compound 5b (Pvd5)



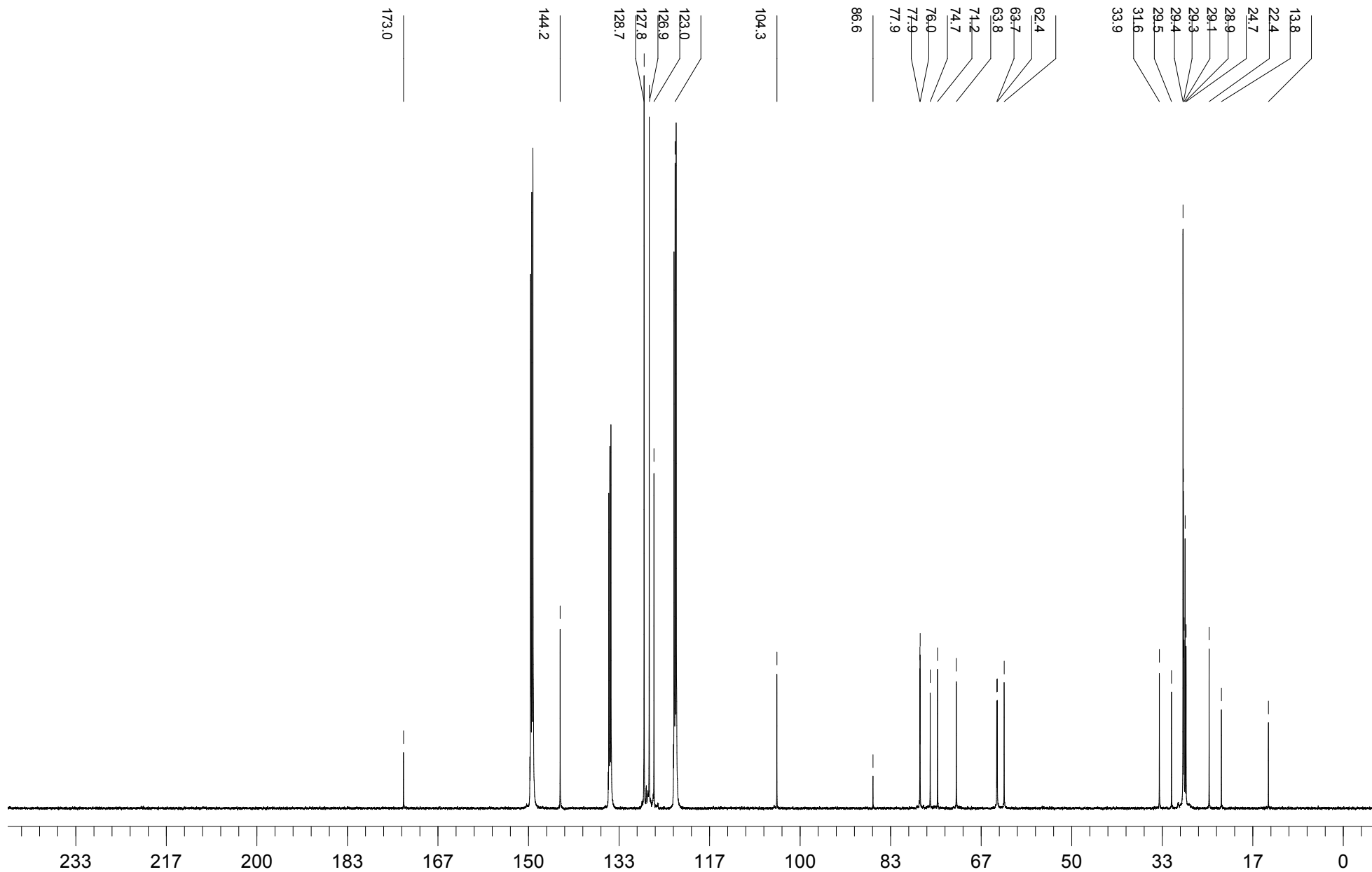
Compound 5b (Pvd5)



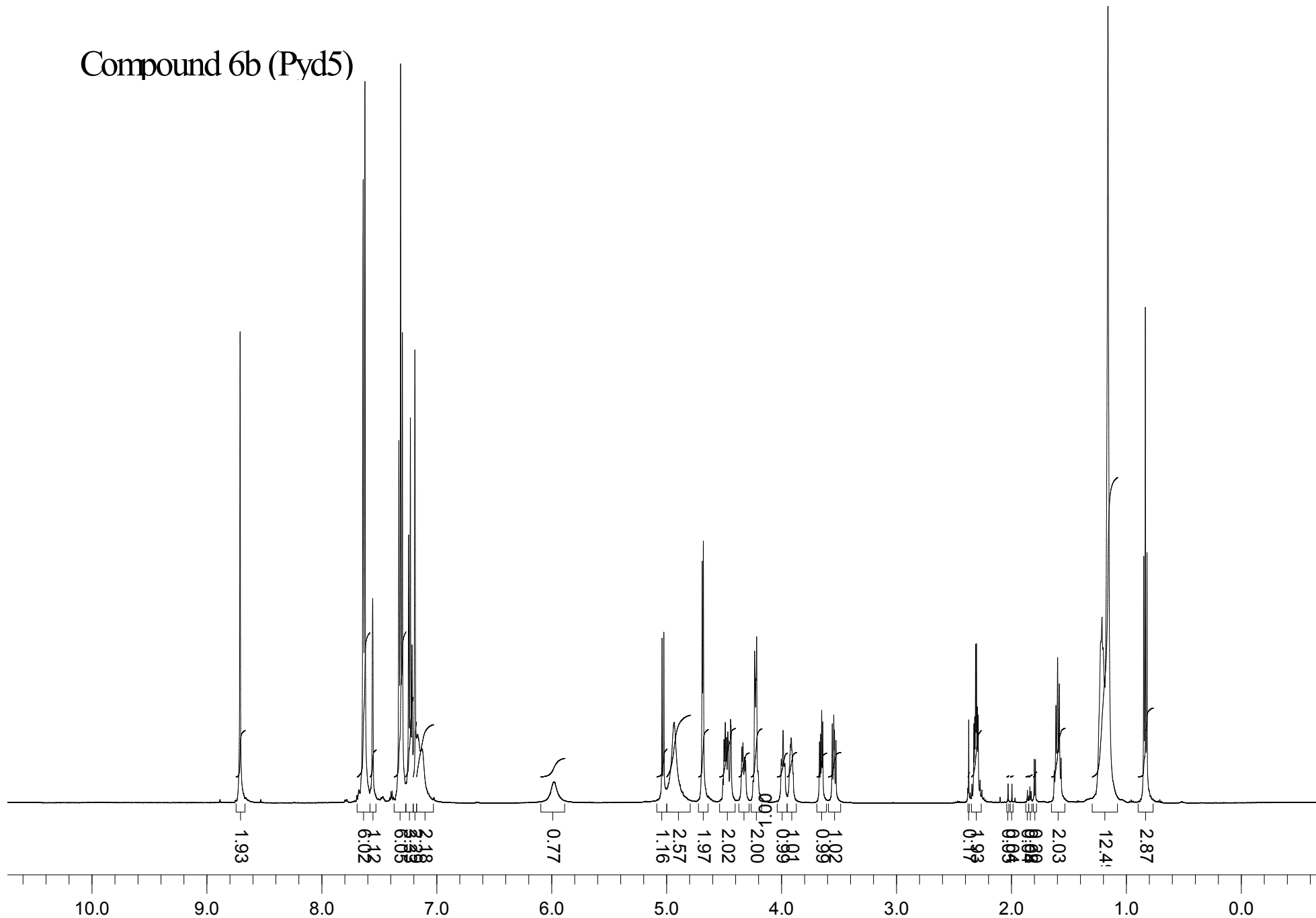
Compound 6a (Pvd5)



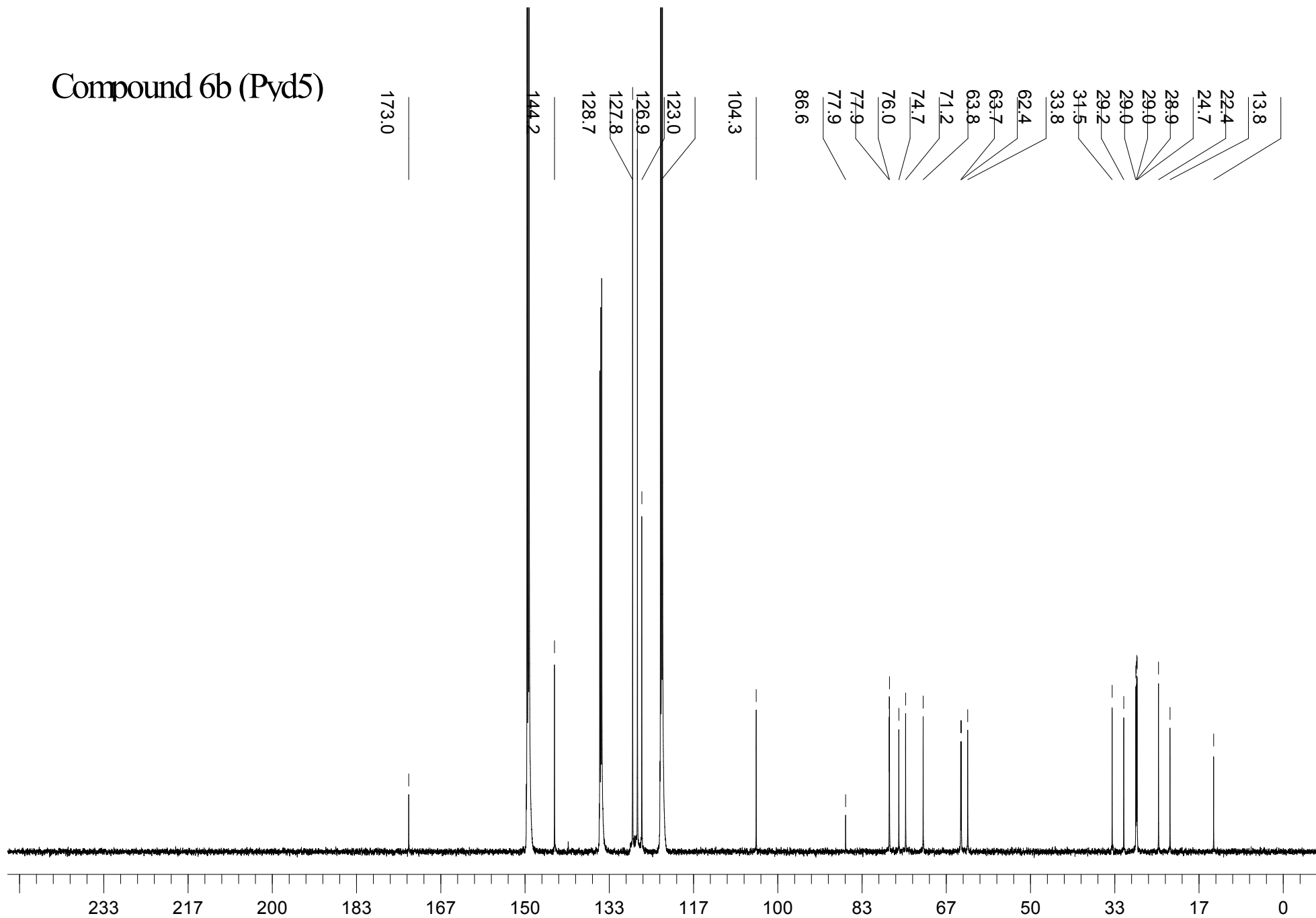
Compound 6a (Pyd5)



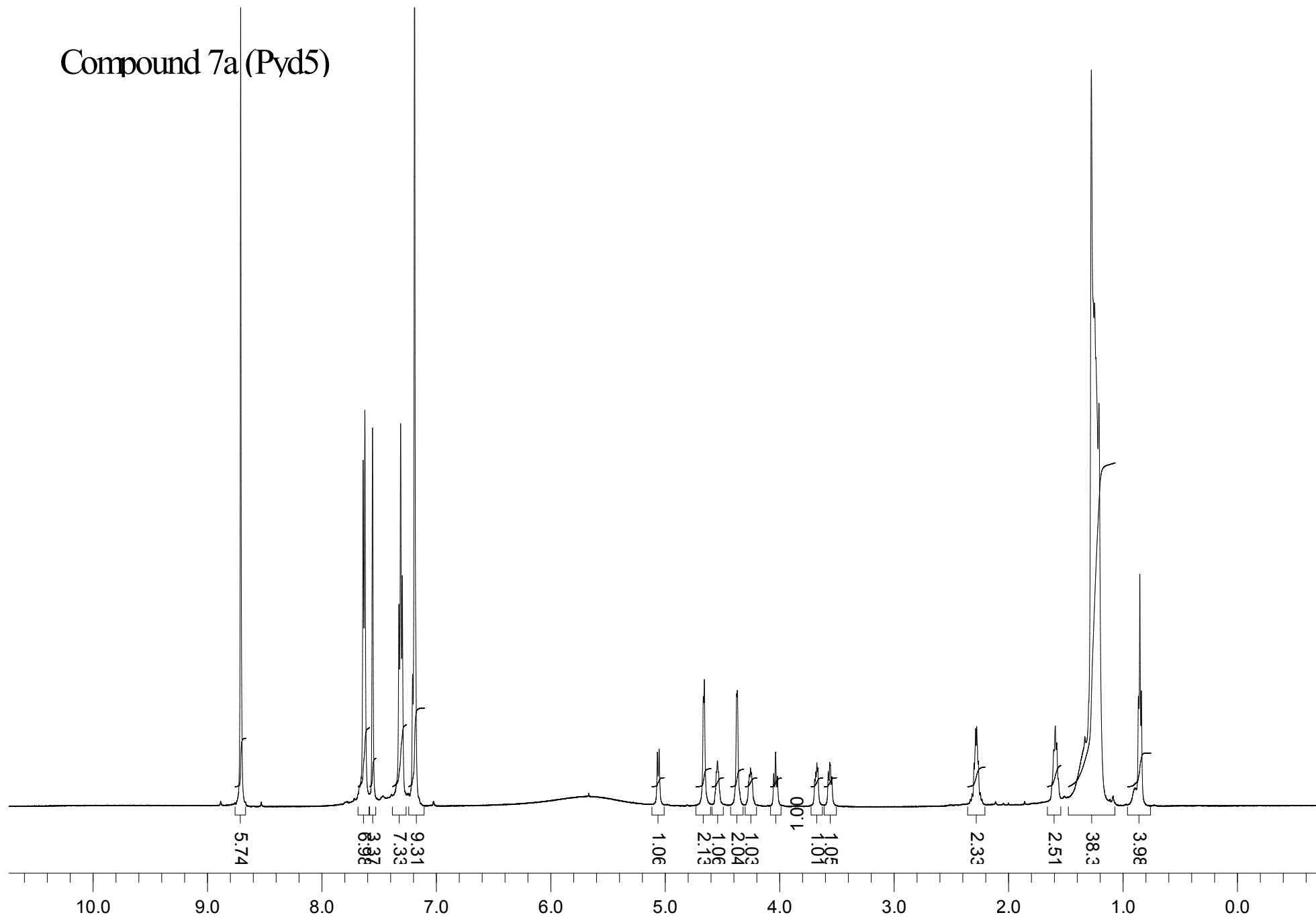
Compound 6b (Pyd5)



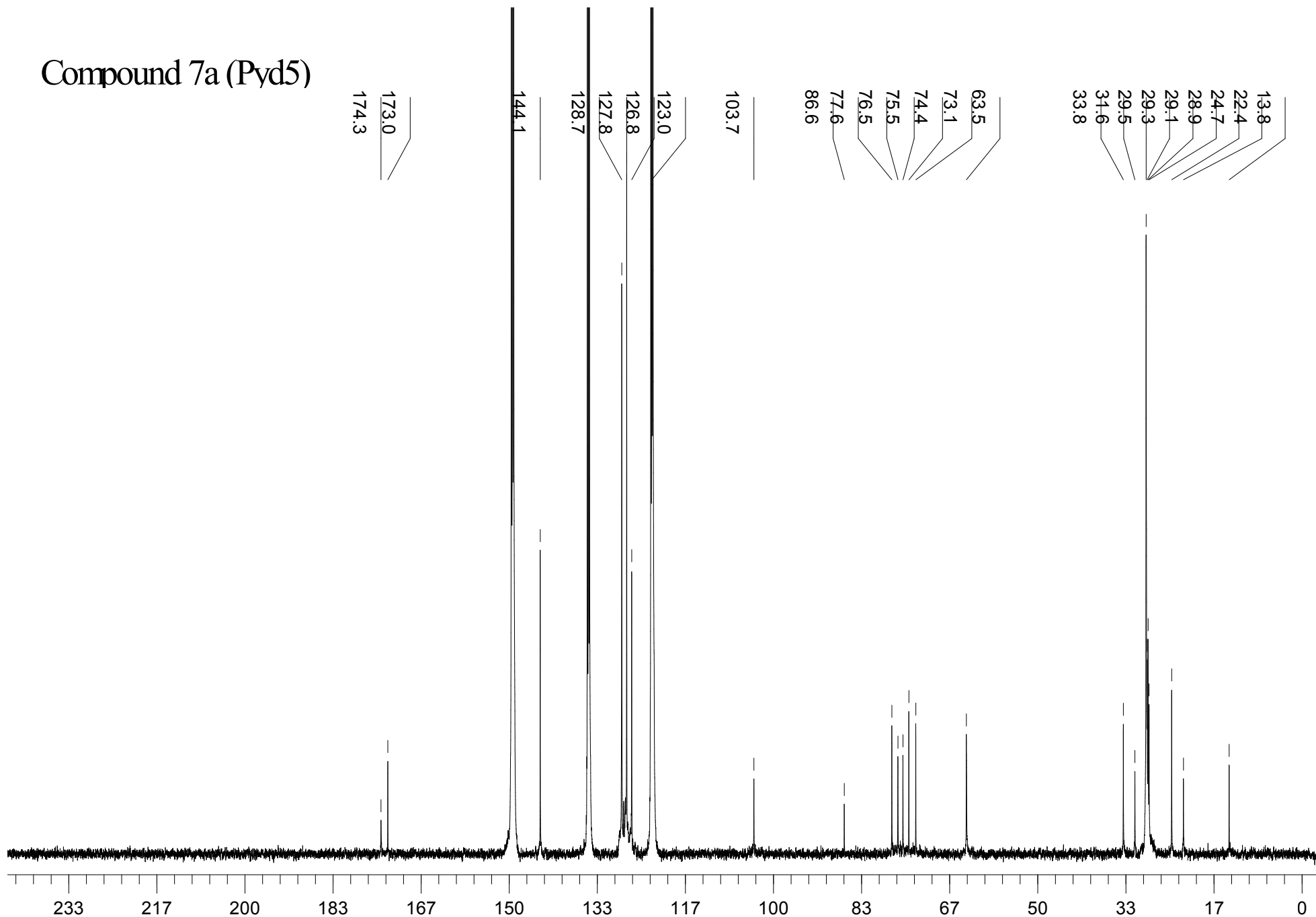
Compound 6b (Pvd5)



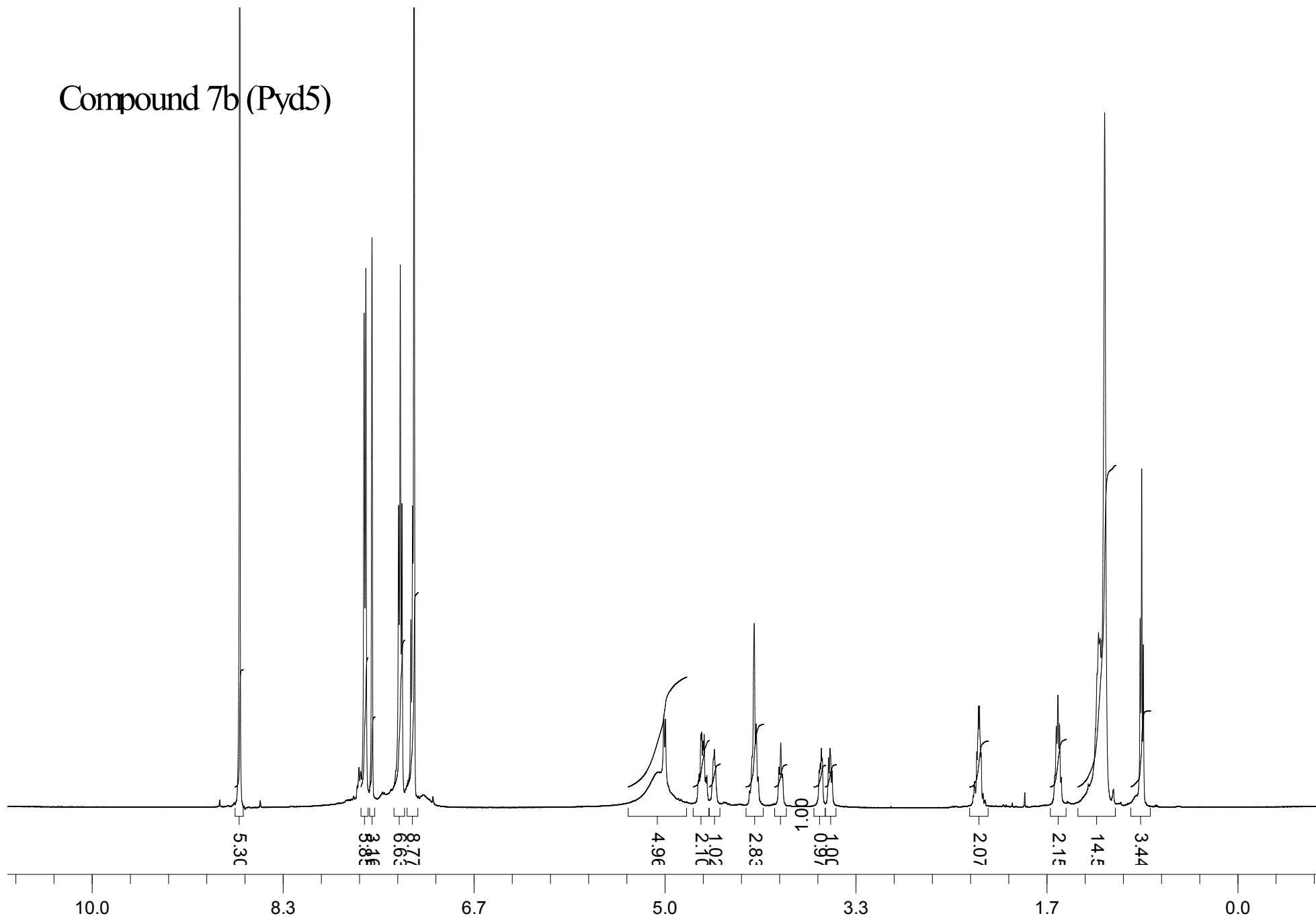
Compound 7a (Pyd5)



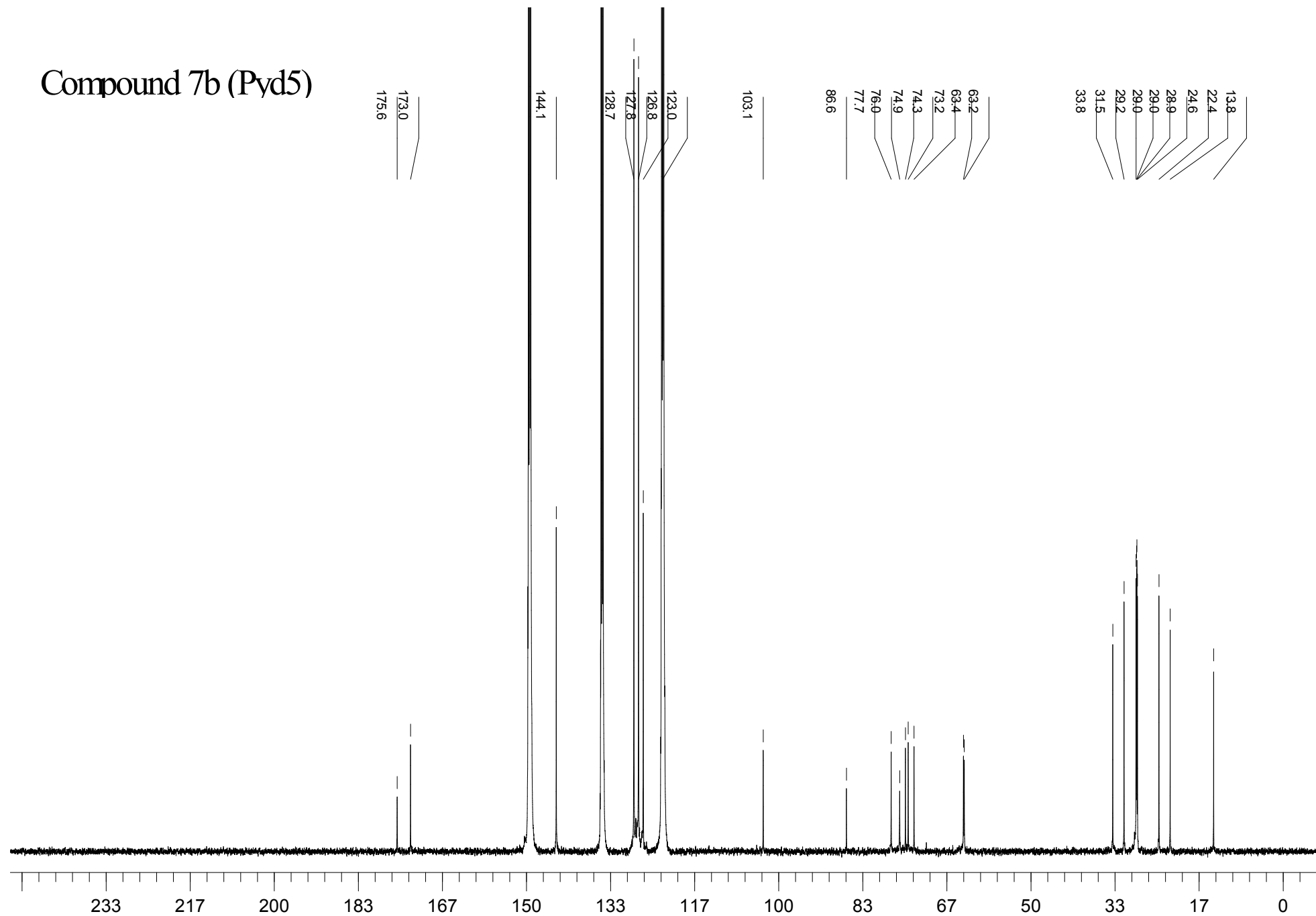
Compound 7a (Pyd5)



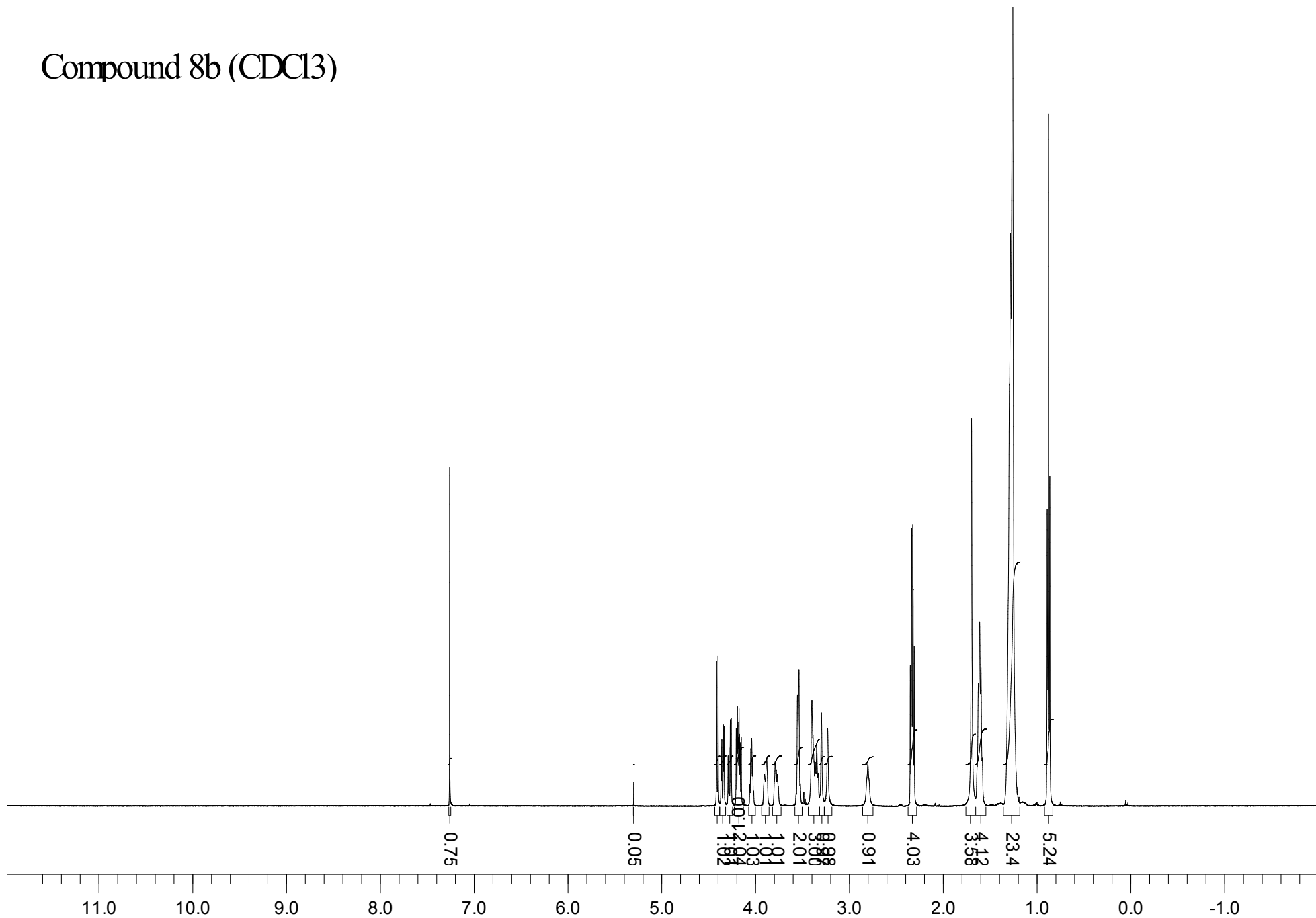
Compound 7b (Pvd5)



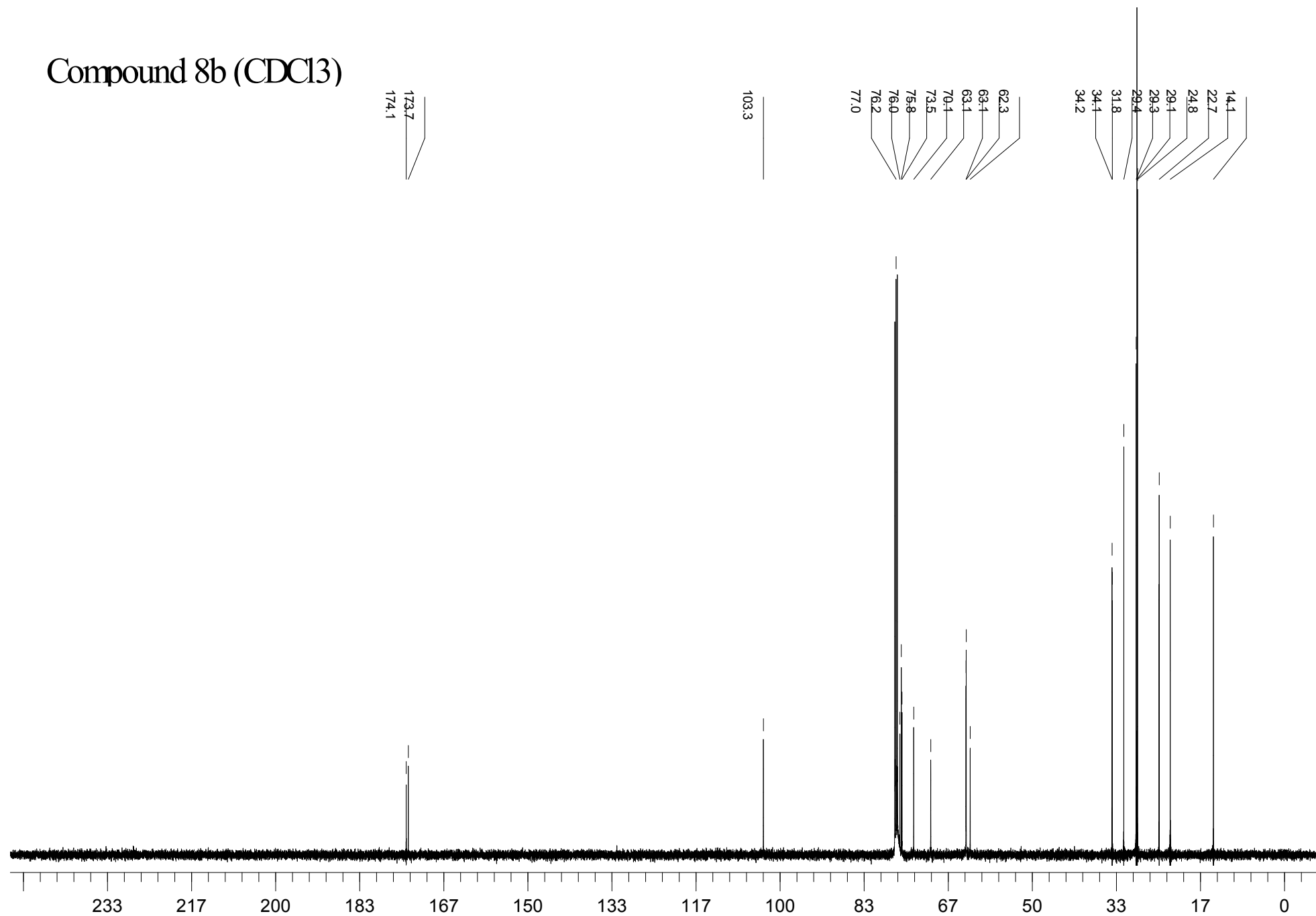
Compound 7b (Pvd5)



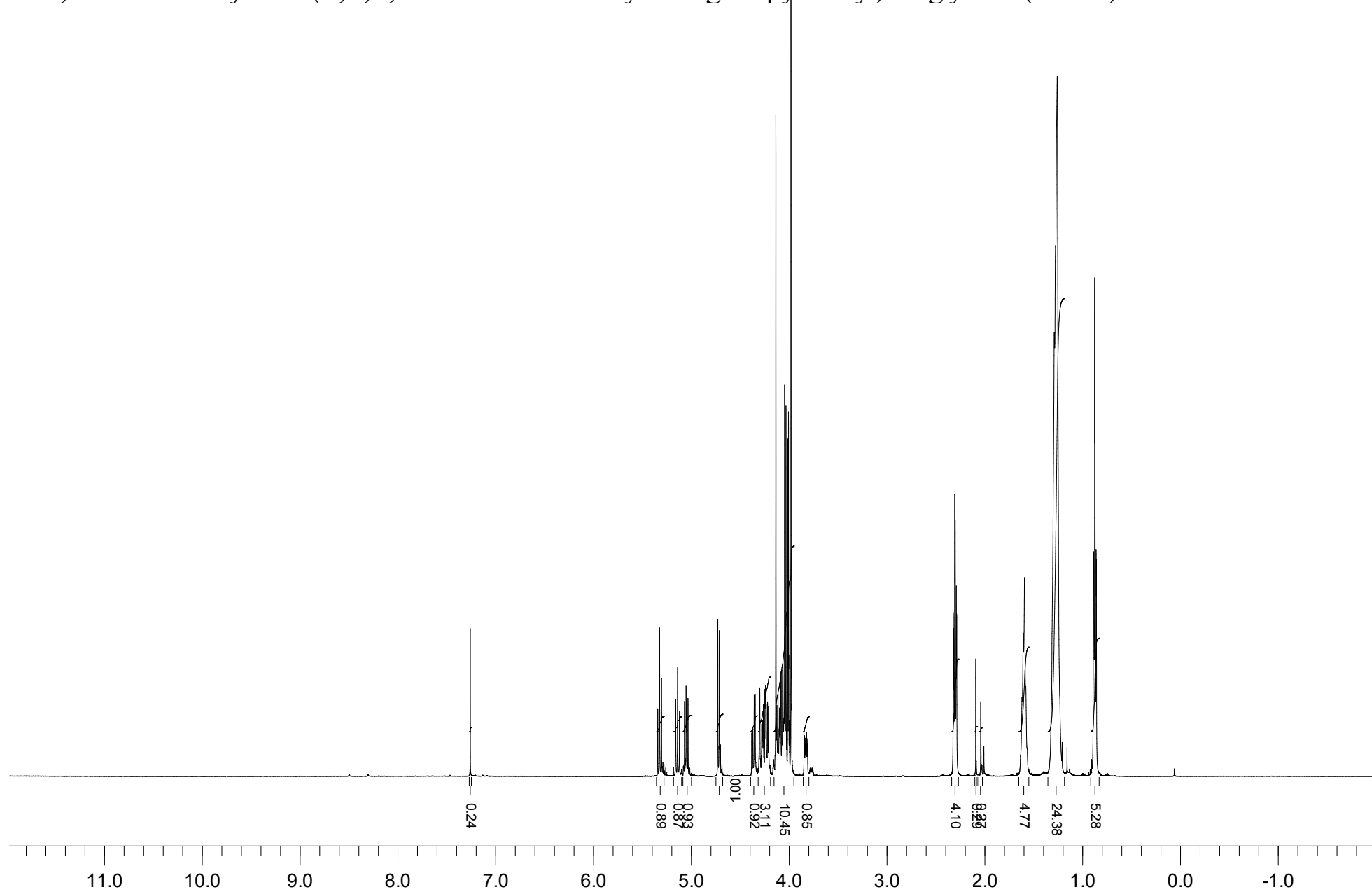
Compound 8b (CDCl₃)



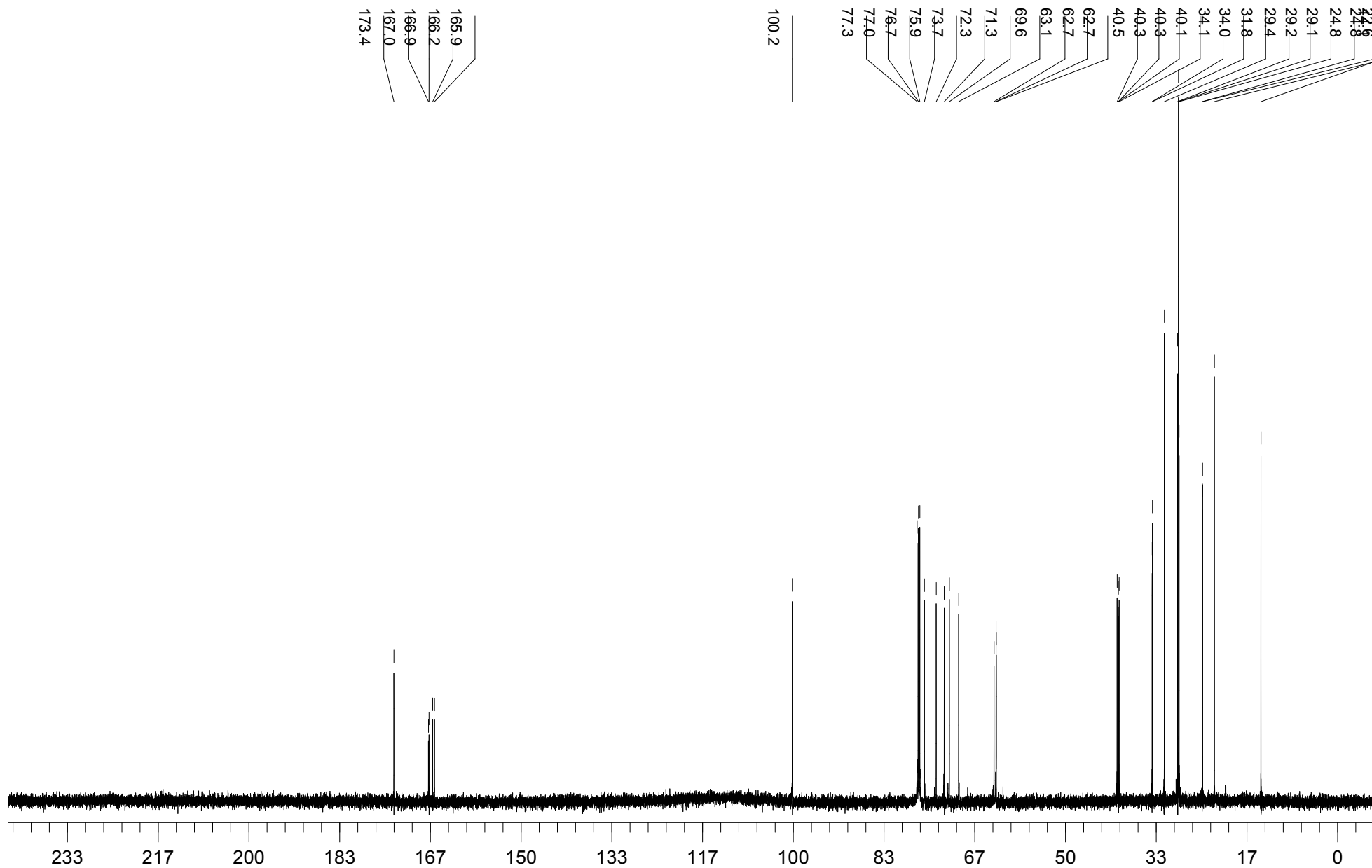
Compound 8b (CDCl₃)



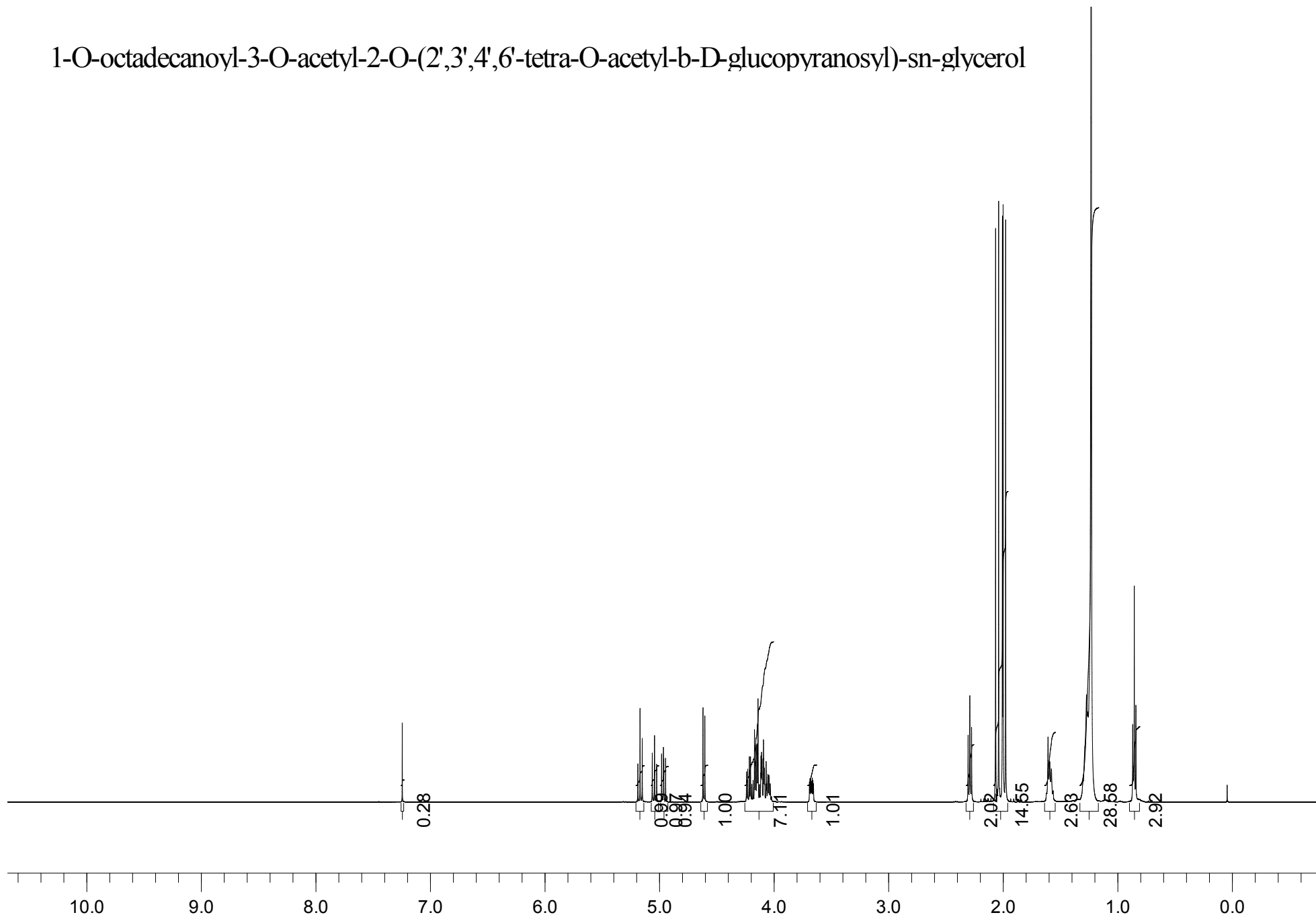
1,3-di-O-decanoyl-2-O-(2',3',4',6'-tetra-O-chloroacetyl- β -D-glucopyranosyl)-sn-glycerol (CDCl₃)



1,3-di-O-decanoyl-2-O-(2',3',4',6'-tetra-O-chloroacetyl-b-D-glucopyranosyl)-sn-glycerol (CDCl₃)



1-O-octadecanoyl-3-O-acetyl-2-O-(2',3',4',6'-tetra-O-acetyl- β -D-glucopyranosyl)-sn-glycerol



1-O-octadecanoyl-3-O-acetyl-2-O-(2',3',4',6'-tetra-O-acetyl- β -D-glucopyranosyl)-sn-glycerol

