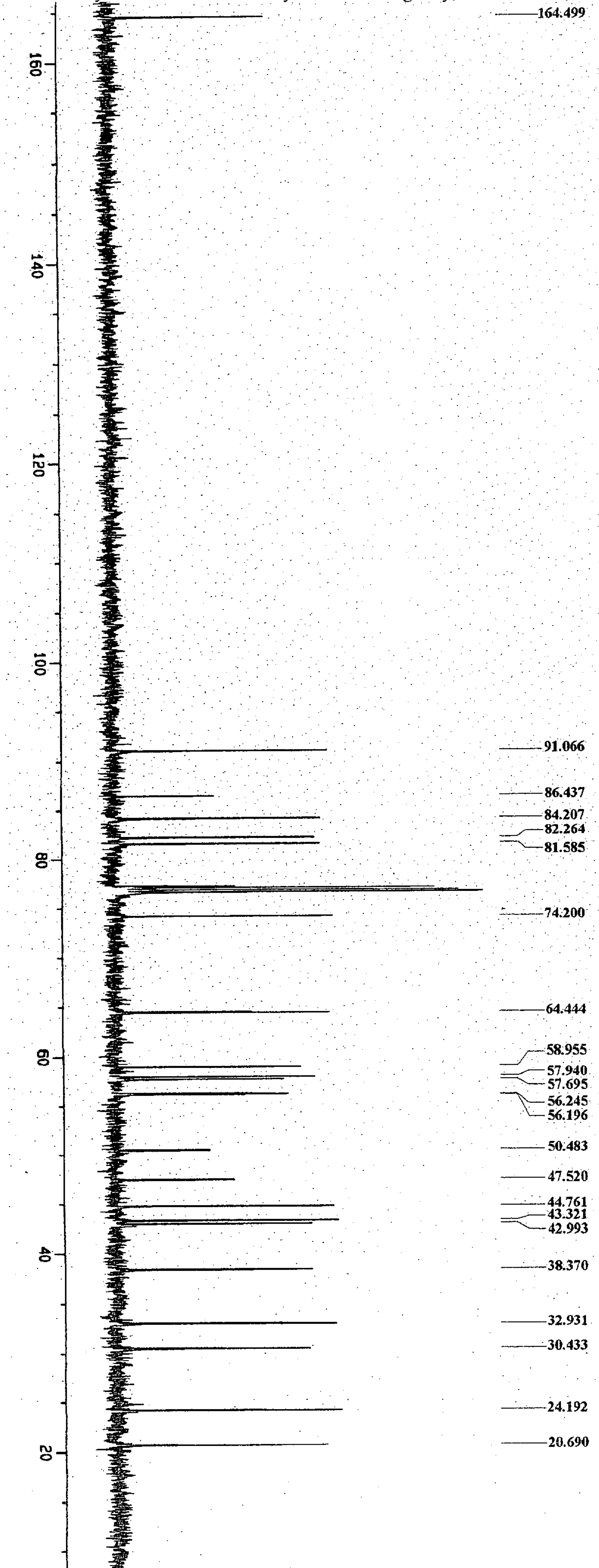
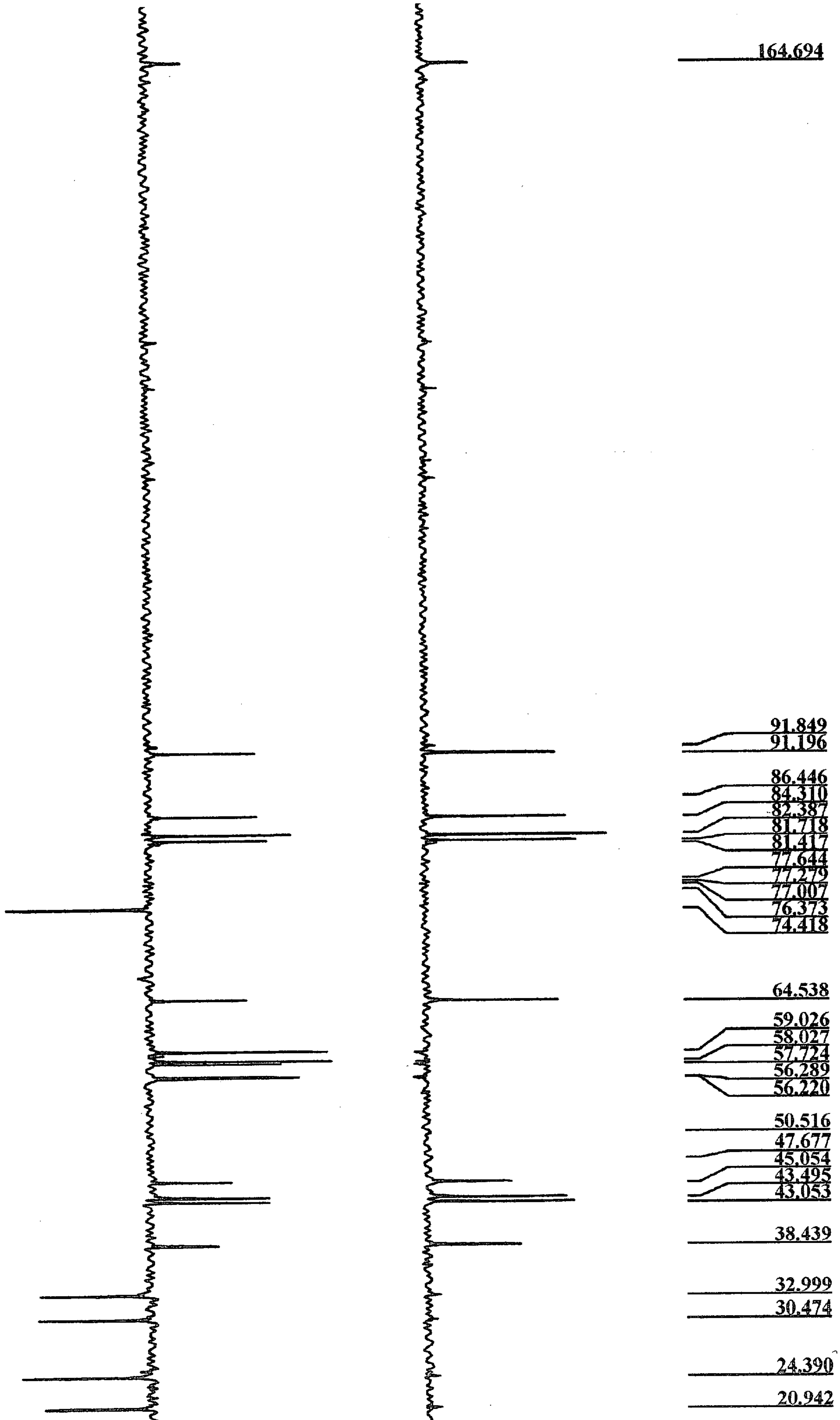
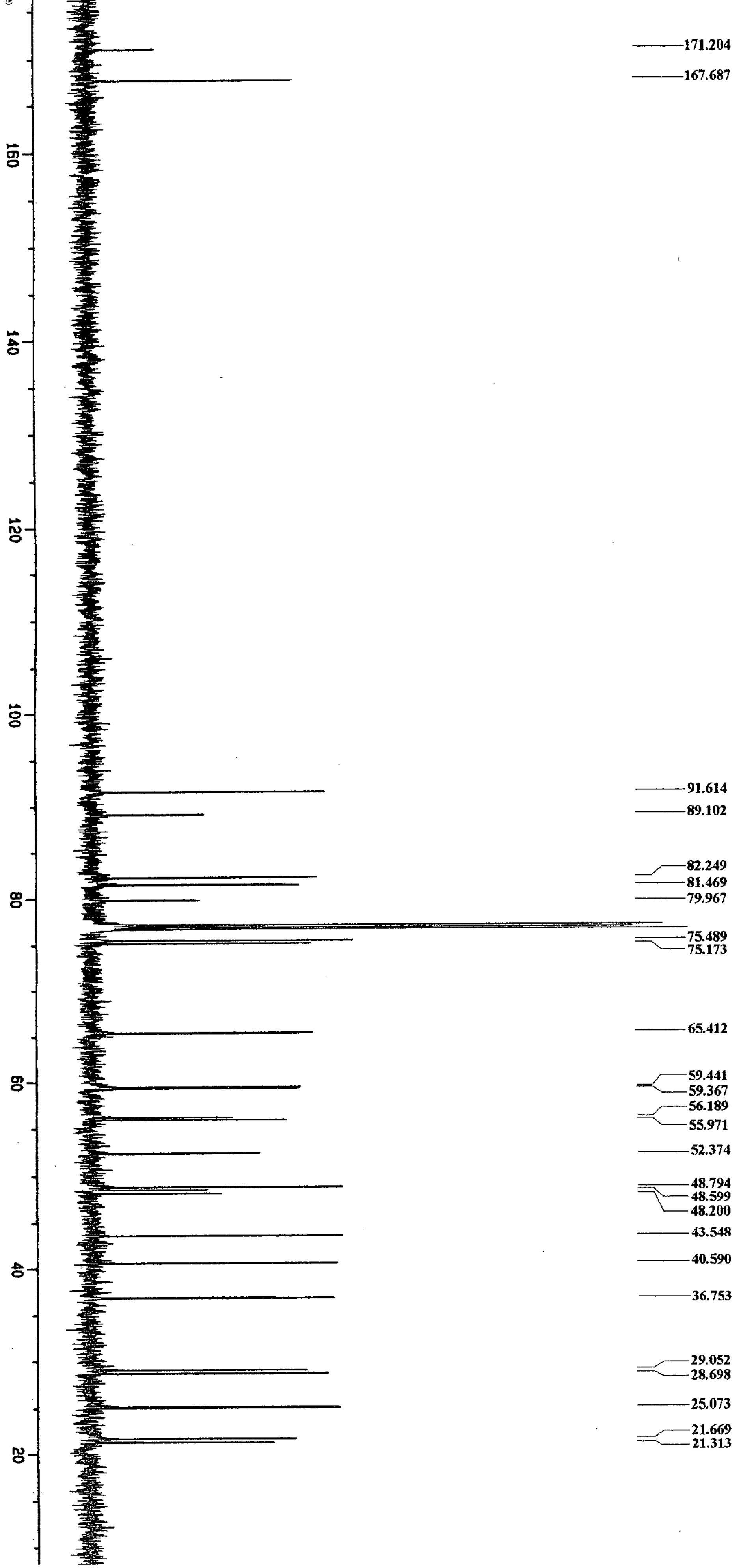


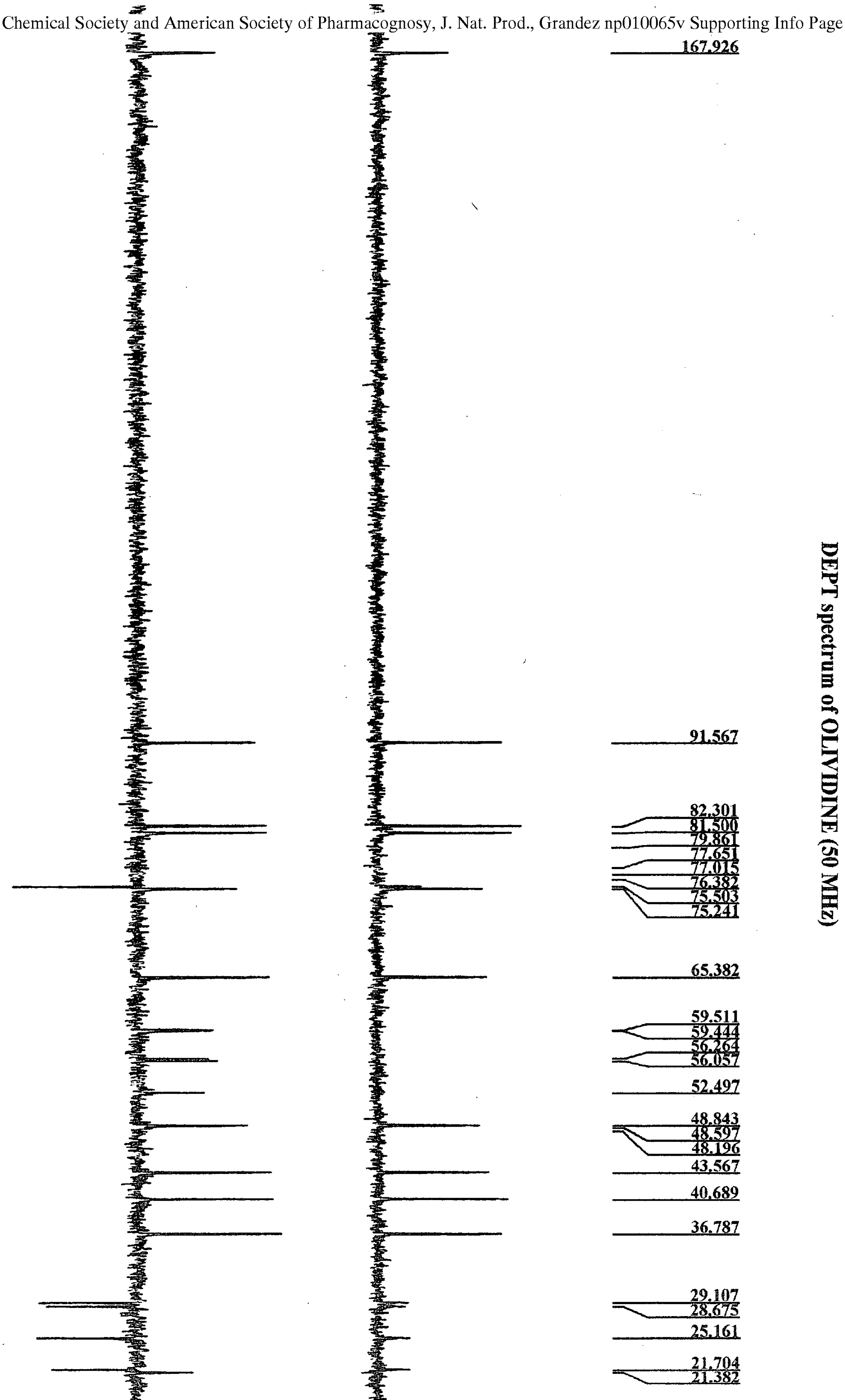
^{13}C NMR spectrum of OLIVIMINE (125 MHz)

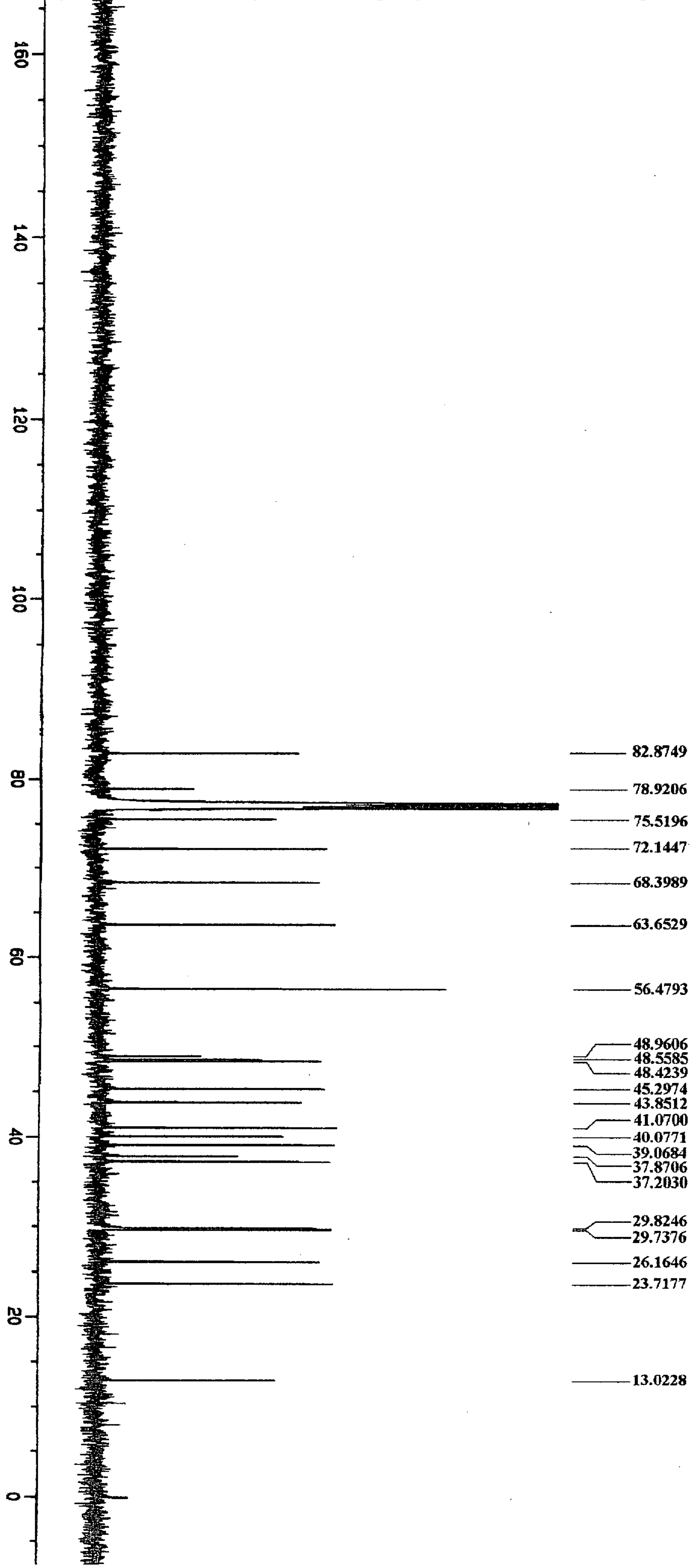


DEPT spectrum of OLIVIMINE (50 MHz)

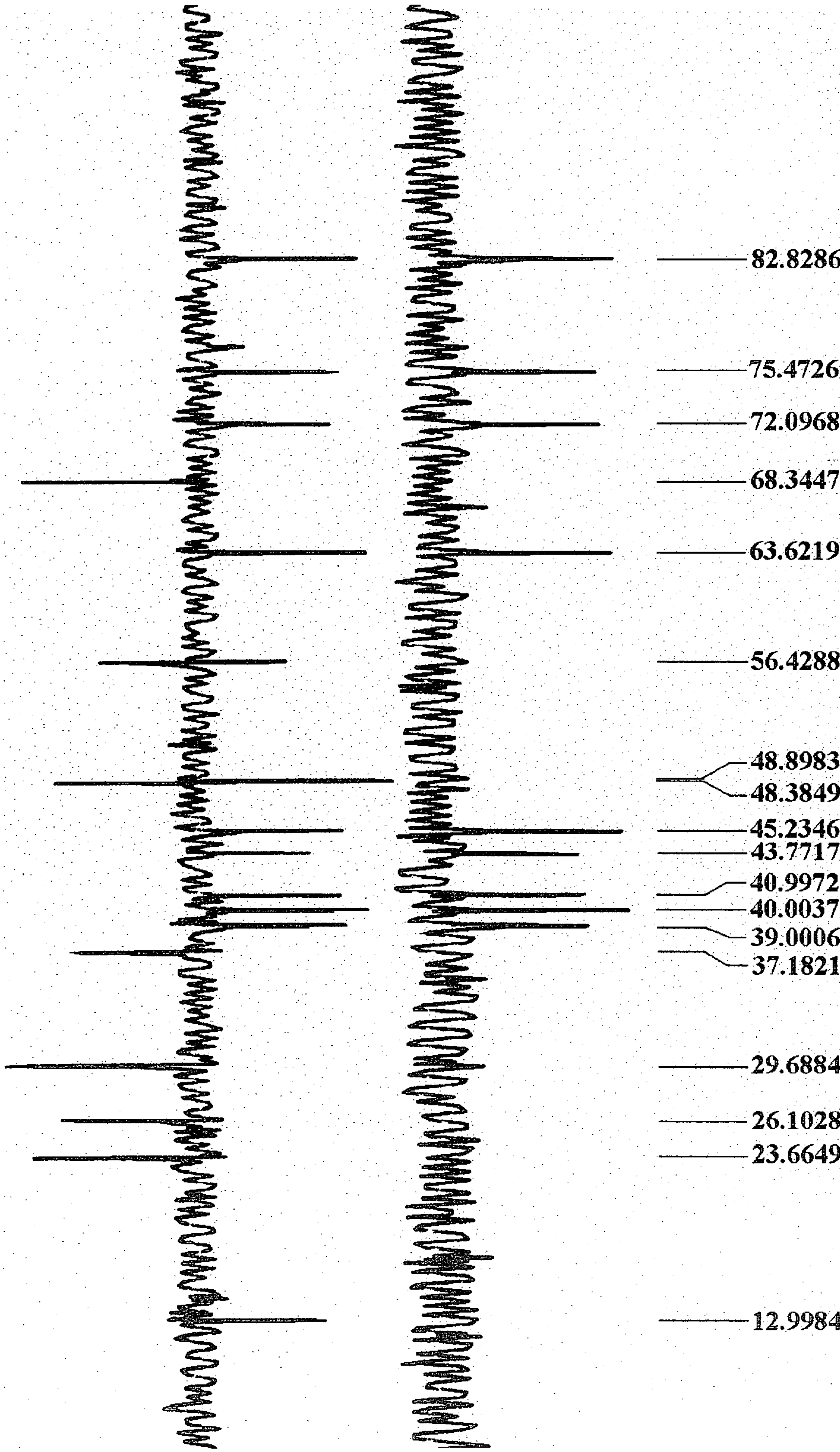


^{13}C NMR spectrum of OLIVIDINE (125 MHz)


DEPT spectrum of OLIVIDINE (50 MHz)
167.926
91.567
82.301
81.500
79.861
77.651
77.015
76.382
75.503
75.241
65.382
59.511
59.444
56.264
56.057
52.497
48.843
48.597
48.196
43.567
40.689
36.787
29.107
28.675
25.161
21.704
21.382

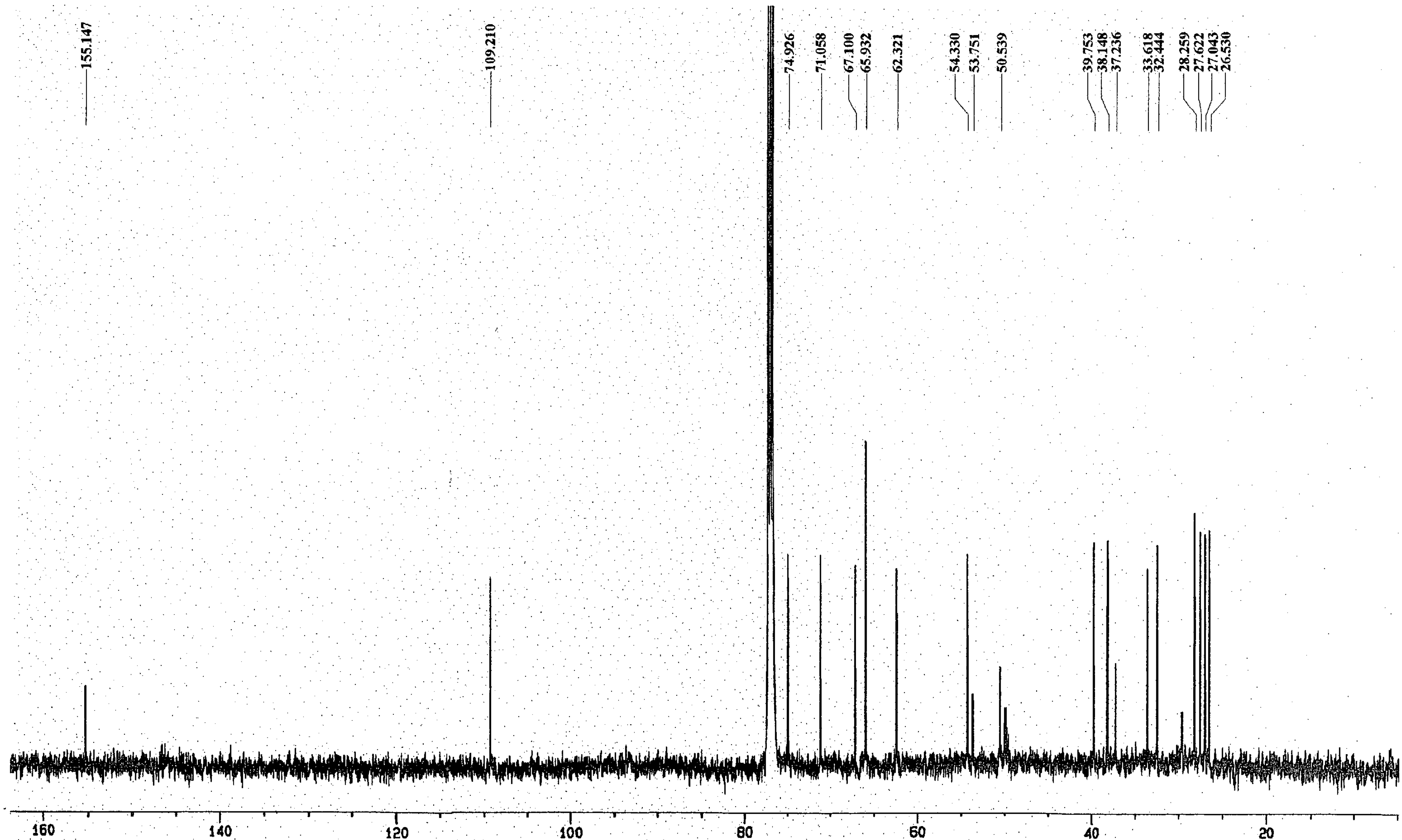


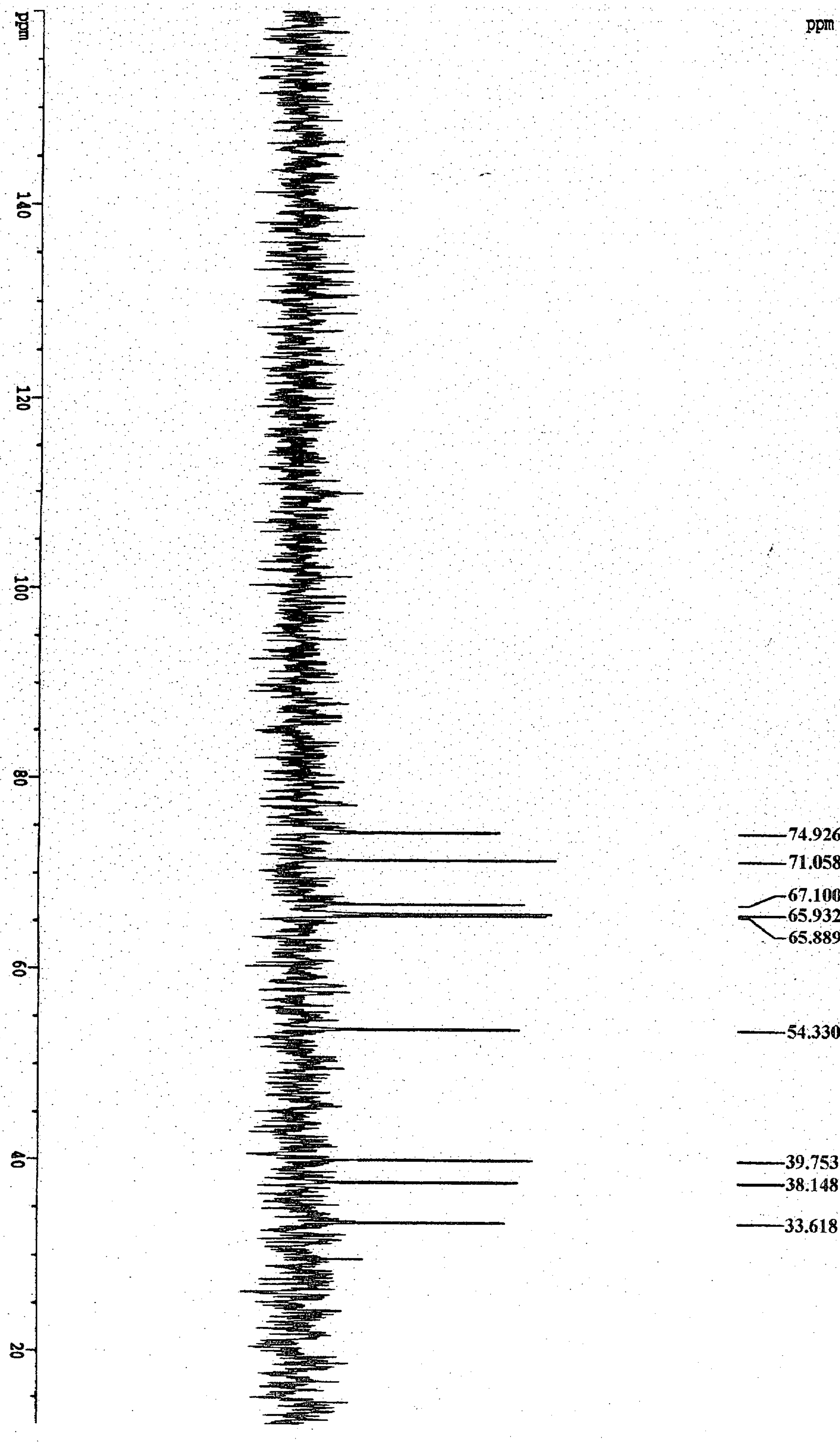
^{13}C NMR spectrum of 8-O-METHYLCOLUMBIANINE (125 MHz)



DEPT spectrum of 8-O-METHYLCOLUMBIANINE (50 MHz)

^{13}C NMR spectrum of 7α-HYDROXYCOSSONIDINE (125 MHz)





DEPT 90 spectrum of 7α-HYDROXYCOSSONIDINE (125 MHz)

DEPT 135 spectrum of 7α-HYDROXYCOSSONIDINE (125 MHz)

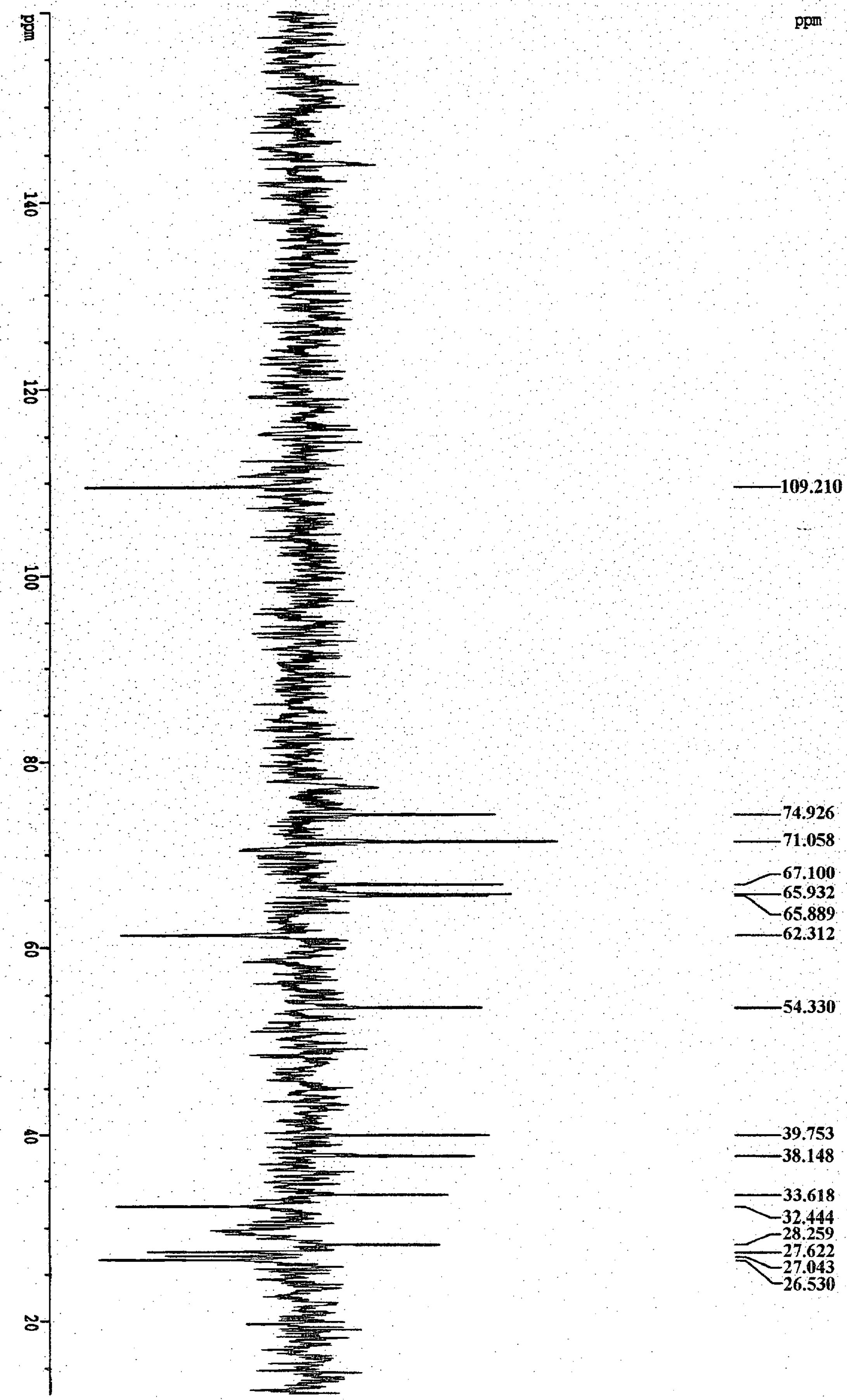


Table 1. ^{1}H-^{1}H COSY NMR Data of **1-4** in $CDCl_3$

proton	**1**	**2**	**3**	**4**
1α				H-2α, H-2β, H-3α
1β	H-2α, H-2β	H-2α, H-2β	H-2α, H-2β	
2α	H-1β, H-2β	H-1β, H-2β	H-1β	
2β	H-1β, H-2α	H-1β, H-2α	H-1β	
3α	H-3β			H-1α, H-3β
3β	H-3α			H-3α
5	H-6α, H-17(*W*)	H-6α, H-17(*W*), H-19		H-6
6α	H-5	H-5	H-6β	H-5, H-7β, H-20 (*W*)
6β			H-6α	
7			H-6β	H-6
9	H-10, H-14β	H-10, H-14β	H-10, H-14β	H-11β , H-14β (*W*)
10	H-9, H-12α, H-12β	H-9, H-12α	H-12β	
11α				H-11β, H-12β
11β				H-9, H-11α
12α	H-10, H-12β	H-10, H-12β, H-13	H-10, H-12β, H-13	H-11α, H-11β, H-13α, H-13β
12β	H-10, H-12α, H-13	H-12α, H-13	H-12α	
13α	H-12β, H-14β, H-16α	H-12α, H-12β, H-14β	H-14β	H-12β, H-13β, H-14β
13β				H-12β, H-13α, H-14β
14	H-9, H-13β	H-9, H-13β	H-9, H-13β	H-9 (*W*), H-13α, H-13β
15α	H-15β, H-16α	H-15β, H-16α	H-16α	
15β	H-15α, H-16α	H-15α, H-16α	H-16α	
16	H-13β, H-15α	H-15α, H-15β	H-15α, H-15β	
17	H-5 (*W*), H-19	H-5(*W*), H-19		
18 A	H-18 B	H-18 B	H-18 B	
18 B	H-18 A	H-18 A	H-18 A	
19 A	H-5, H-17	H-5, H-17	H-19 B	H-19 B
19 B			H-19 A	H-19 A
20 A			H-21	H-6 (*W*)
20 B			H-21	
21			H-20 A, H-20 B	

Table 2. ROESY NMR Data of **1-4** in $CDCl_3$

proton	**1**	**2**	**3**	**4**
1α				H-2α, H-2β, H-11α, H-13α, H-20
1β	H-2α, H-2β, H-10, H-12α, H-12β	H-2α, H-2β, H-10, H-12α	H-2α, H-2β, H-10, H-12α	
2α	H-2β	H-1β, H-2β, CH_3O-1α	H-1β, H-3α, H-3β	
2β	H-1β, H-2α, H-3β, H-5	H-1β, H-2α, H-3β, H-5	H-1β, H-3α, H-3β	
3α	H-2α, H-3β	H-2α, H-2β, H-18 A, H-18 B	H-2α, H-2β	H-2α, H-2β, H-3β , H-18, H- 19 A
3β	H-2β, H-3α	H-2α, H-3β, H-18 A, H-18 B	H-2α, H-2β	H-2α, H-2β, H-3α, H-18
5	H-2β, H-6α, H-18 A, H-18 B, CH_3O-6β	H-6α, H-10, H-18 A, H-18 B	H-6β	H-1α, H-6, H-7β, H-18
6α	H-5, H-18 A, CH_3O-6β	H-5, H-18 A, H-18 B		H-5, H-18, H-19 A
6β			H-5, H-6α	
7			CH_3O-8	H-9, H-5
9	H-10, H-14β, CH_3O-14α	H-10, H-14β, CH_3O-8		H-7β, H-11β
10	H-1β, H- 9, H-14β	H-1β, H-5, H-9, H-14β	H-1β	
11α				H-1α, H-11β, H-12, H-13α
11β				H-9, H-11α, H-12
12α	H-1β, H-10, H-12β, H-16α, H-17	H-1β, H-12β, H-16α, H-17	H-12β, H-16α, H-17	H-11α, H-11β, H-13α, H-13β, 17B
12β	H-1β, H-9, H-12α, H-13, H-14β	H-12α, H-13, H-14β		
13α	H-12β, H-14β, CH_3O-14α, CH_3O-16β	H-12β, H-14β, CH_3O-16β	H-12β, CH_3O-16β	H-11α, H-13β, H-20
13β				H-13α
14	H-9, H-10, H-12β, H-13β, CH_3O-14α	H-9, H-10, H-12β, H-13β		H-15α
15α	H-15β, H-16α, HO-8	H-15β, H-16α	H-16α, H-17	H-14β, H-17 A
15β	H-15α	H-15α	H-16α, H-17	
16	H-12α, H-17	H-12α, H-17	H-12α, H-13, H-15α, H-17	
17-*Z*[a]	H-12α, H-15α, H-16α	H-12α, H-15α, H-16α, CH_3O-1α	H-12α, H-15α, H-16α, H-20 A, H-20 B, H-21	H-15α
17-*E*[a]				H-12
18 A	H-3β, H-5, H-6, H-18 B, H-19, CH_3O-18	H-3α, H-3β, H-5, H-6, H-18 B, H-19	H-18 B	H-3α, H-3β, H-5, H-6, H-19 A
18 B	H-3β, H-5, H-6, H-18 A, H-19	H-3α, H-3β, H-5, H-6, H-18 A, H-19	H-18 A	
19 A	H-3α, H-6α, H-18 A, H-18 B	H-18 A, H-18 B	H-19 B	H-3α, H-6, H-18
19 B			H-16 α, H-19 A	H-18
20 A			H-21	H-1α, H-2α, H-13α
20 B			H-21	
CH_3O-1α	H-2α, H-17	H-2α, H-17		
CH_3O-6β	H-5, H-6α			
CH_3O-8		H-9, CH_3COO-14α	H-7, H-15β	
CH_3O-14α	H-9, H-13, H-14β			
CH_3COO-14α		H-14β, CH_3O-8		
CH_3O-16β	H-13β, H-15α, H-16α	H-12α, H-13, H-15β	H-15β	
CH_3O-18	H-6α, H-18 A	H-18 A, H-18 B, H-19		
HO-8	H-15α			

[a] Nomenclature *E/Z* for vinylic protons only should be considered for compound **4**.