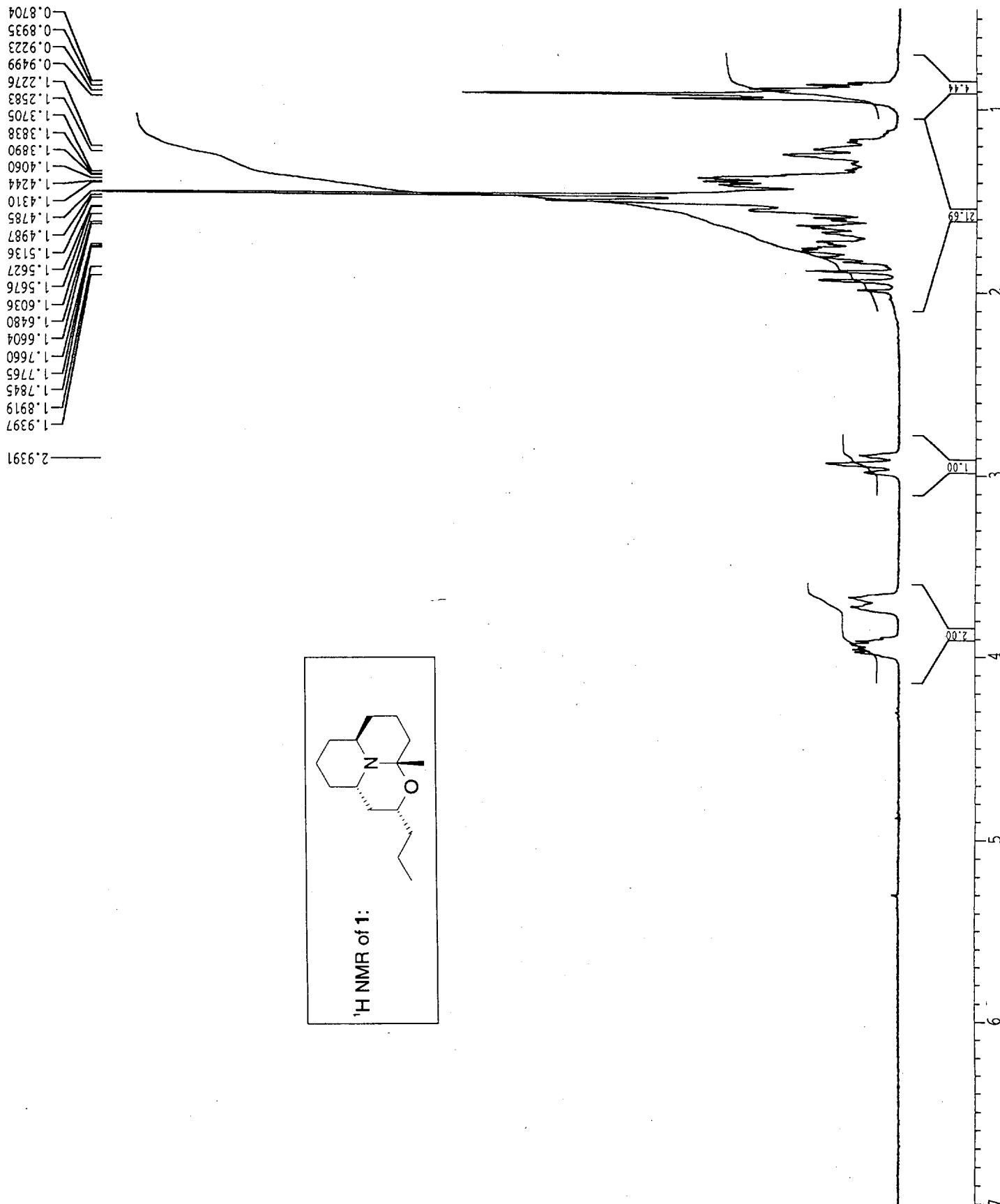


Current Data Parameters
NAME h15MD
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 990215
Time 8.27
INSTRUM spect
PROBHD 5mm 1H/13C inv
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 0

SWH 5050.505 Hz
FIDRES 0.154129 Hz
AQ 3.2440820 sec
RG 715
DW 99.000 usec
DE 141.43 usec
TE 300.0 K

D1 0.30000001 sec
F1 4.50 usec
DE 141.43 usec
SF01 250.1312264 MHz
NUCLEUS 1H

F2 - Processing parameters
SI 16384
SF 250.1300048 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 24.00 cm
F1P 7.428 pf
F1 1857.90 Hz
F2P 0.447 pf
F2 111.93 Hz
PPMCM 0.29084 pf
HZCM 72.74898 Hz

*** Current Data Parameters ***

NAME : h15md290
 EXPNO : 20
 PROCNO : 1

*** Acquisition Parameters ***

CPDPRG : waltz16
 DATE_1 : 06:44:59
 DATE_d : Jan 15 1999
 DE : 44.3 usec
 DS : 2
 INSTRUM : spect
 NS : 758

PROBHD : 5mm 1H/13C inverse

PULPROG : zgpg30
 SFO1 : 62.9029305 MHz
 SOLVENT : CDCl3
 SW_h : 16129.032 Hz
 TD : 16384

*** Processing Parameters ***

GB : 0.0000000
 LB : 3.00 Hz
 PC : 1.40
 SF : 62.8952363 MHz
 SI : 16384
 SSB : 0.0000000
 WDW : EM

*** ID NMR Plot Parameters ***

Width : 21.20 cm
 Start : 100.26 ppm
 Stop : 7.04 ppm
 ppm_cm : 4.40
 Hz_cm : 276.57

14.2727

17.9979

19.3439

19.7196

23.6952

27.3108

30.7699

34.0255

34.1351

39.1751

39.9733

48.4254

49.4741

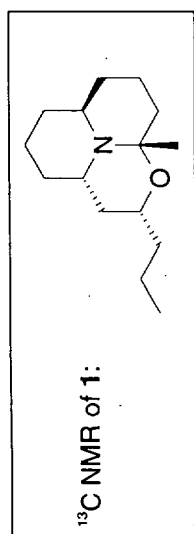
69.1330

76.5991

77.1156

77.6164

86.2251



(ppm)

*** Current Data Parameters ***

NAME : h22md34a
EXPNO : 10
PROCNO : 1

*** Acquisition Parameters ***

CPDPRG :
DATE_1 : 11:03:34
DATE_2 : Jan 23 1998

DE : 141.4 usec

DS : 0

INSTRUM : spect

NS : 16

PROBHD : 5mm 1H/13C inverse

PULPROG : zg30

SFO1 : 250.131264 MHz

SOLVENT : CDCl3

SW_h : 5050.505 Hz

TD : 32768

*** Processing Parameters ***

GB : 0.000000

LB : 0.10 Hz

PC : 1.00

SF : 250.1300050 MHz

SI : 16384

SSB : 0.000000

WDW : EM

*** 1D NMR Plot Parameters ***

Width : 21.20 cm

Start : 4.85 ppm

Stop : 0.61 ppm

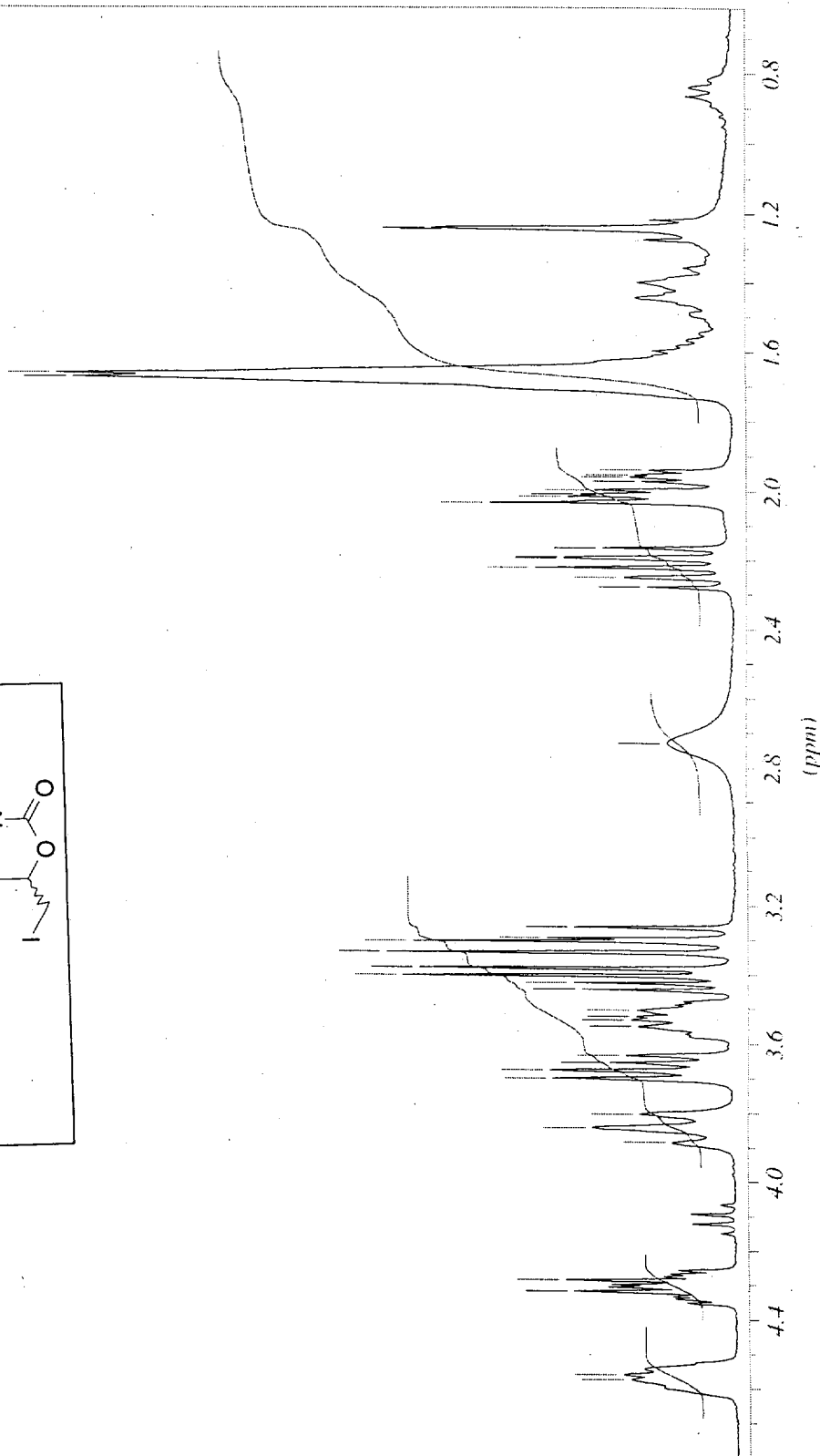
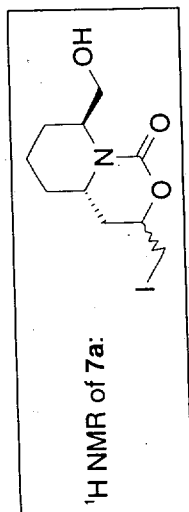
ppm_cm : 0.20

Hz_cm : 50.05

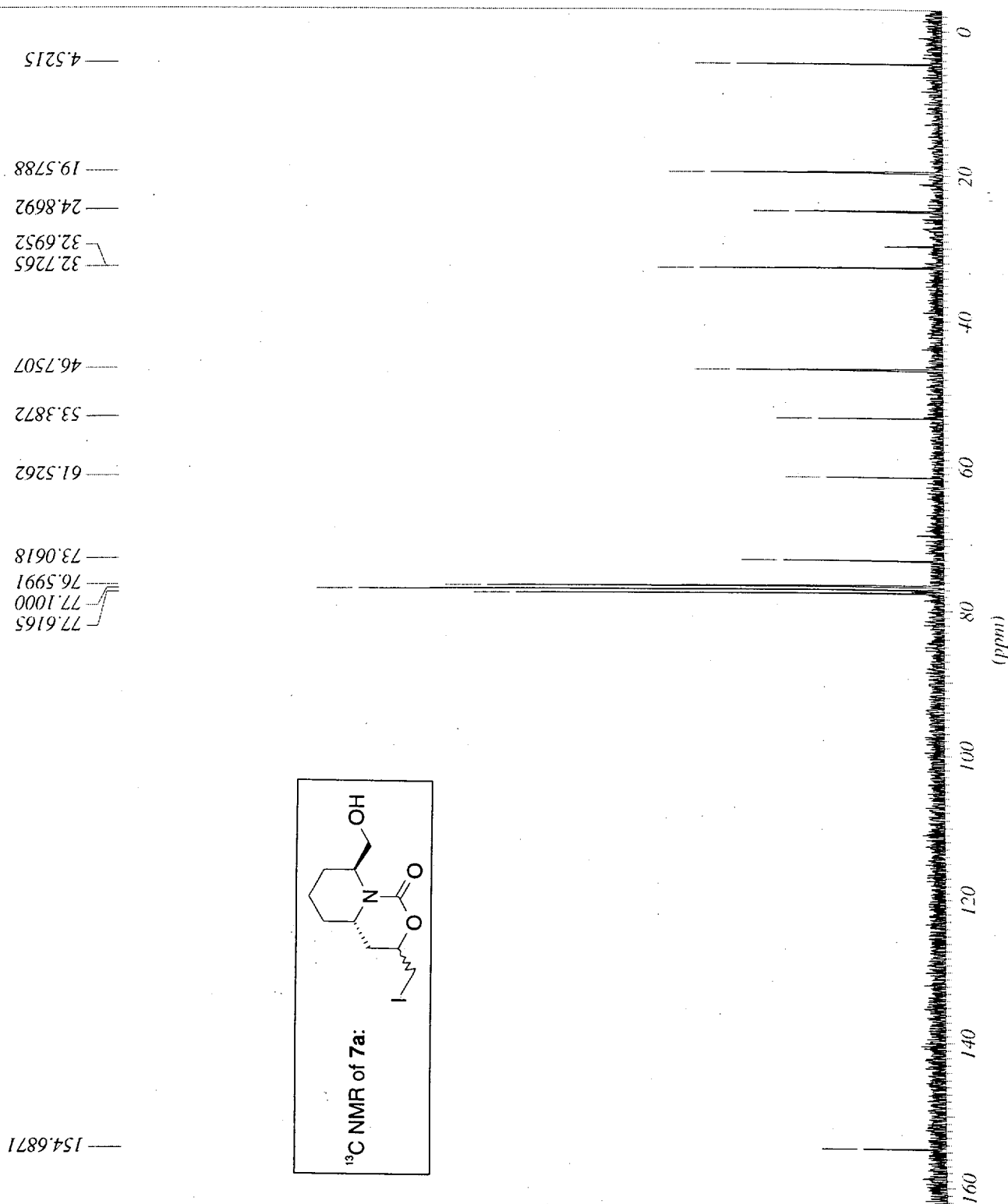
2.2788
2.2517
2.2221
2.1950
2.1913
2.1642
2.0348
2.0163
2.0089
1.9966
1.9719
1.9596
1.9535
1.9399
1.6774
1.6651
1.2461
1.2424

2.7323

4.5712
4.5637
4.3221
4.2901
3.8883
3.8452
3.8045
3.7035
3.6800
3.6579
3.6344
3.5531
3.5346
3.5260
3.5075
3.4459
3.4262
3.4052
3.3843
3.3399
3.3079
3.2980
3.2660



*** Current Data Parameters ***
 NAME : h27md34a
 EXPNO : 10
 PROCNO : 1
 *** Acquisition Parameters ***
 CPDPRG : waltz16
 DATE_1 : 11-48-28
 DATE_d : Jan 27 1998
 DE : 44.3 usec
 DS : 2
 INSTRUM : spect
 NS : 4096
 PROBHD : 5mm 1H/13C inverse
 PULPROG : zgpg30
 SFO1 : 62.9029305 MHz
 SOLVENT : CDCl3
 SW_h : 16129.032 Hz
 TD : 32256
 *** Processing Parameters ***
 GB : 0.0000000
 LB : 3.00 Hz
 PC : 1.40
 SF : 62.8952350 MHz
 SI : 16384
 SSB : 0.0000000
 WDW : EM
 *** ID NMR Plot Parameters ***
 Width : 21.20 cm
 Start : 170.65 ppm
 Stop : -2.85 ppm
 ppm_cm : 8.18
 Hz_cm : 514.74



*** Current Data Parameters ***

NAME : h22nd134b
 EXPNO : 10
 PROCNO : 1

*** Acquisition Parameters ***

CPDPRG :
 DATE_1 : 11-24-27
 DATE_d : Jan 23 1998
 DE : 141.4 usec
 DS : 0
 INSTRUM : spect
 NS : 16

PROBHD : 5mm 1H/13C inverse

PULPROG : zg30

SFO1 : 250.1312264 MHz

SOLVENT : CDCl3

SW_h : 5050.505 Hz

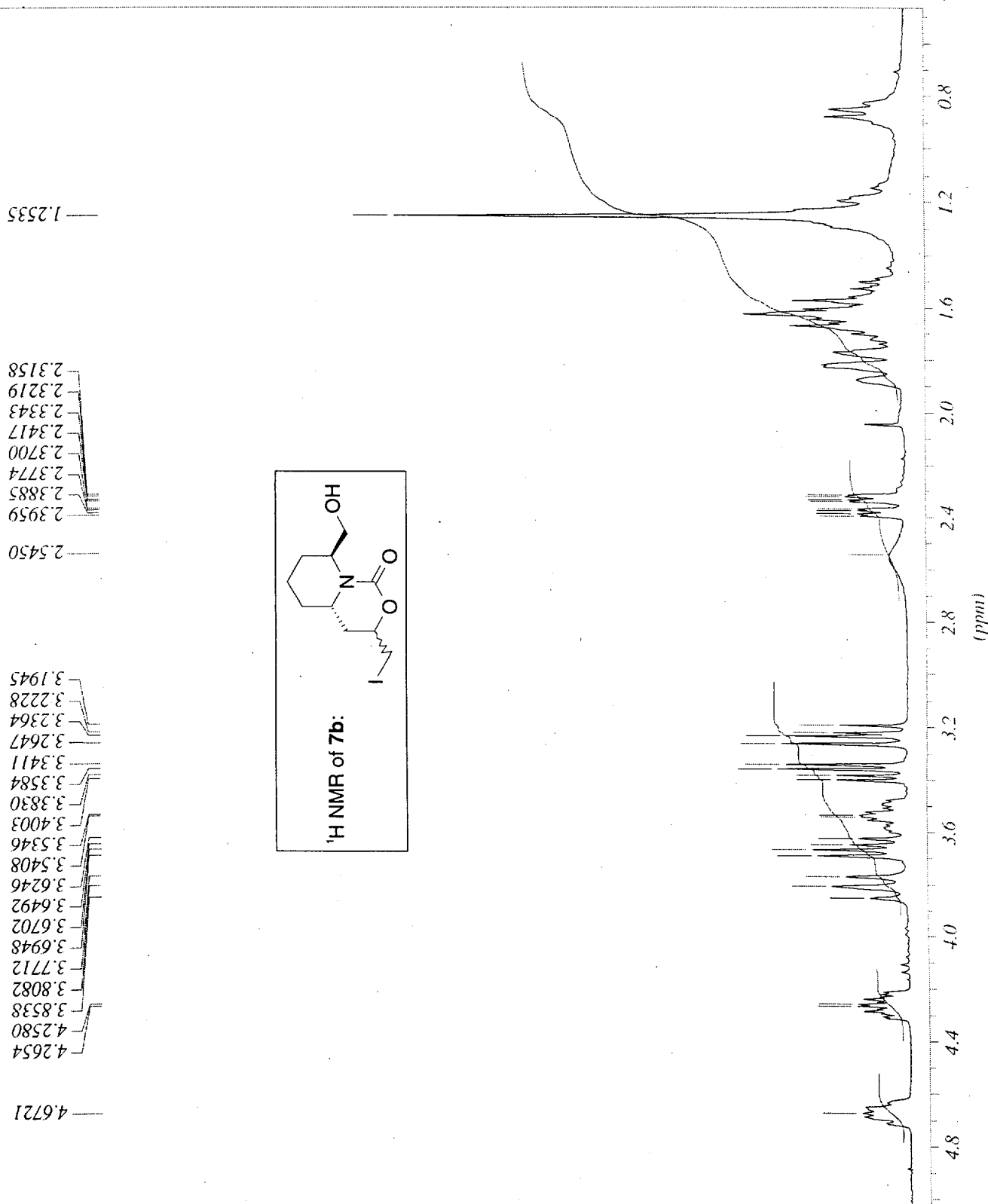
TD : 32768

*** Processing Parameters ***

GB : 0.000000
 LB : 0.10 Hz
 PC : 1.00
 SF : 250.1300050 MHz
 SI : 16384
 SSB : 0.000000
 WDW : EM

*** 1D NMR Plot Parameters ***

Width : 21.20 cm
 Start : 5.09 ppm
 Stop : 0.46 ppm
 ppm_cm : 0.22
 Hz_cm : 54.60

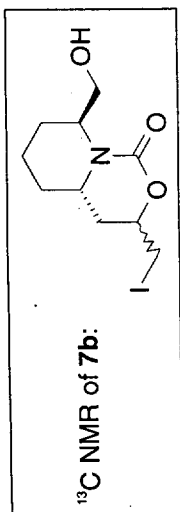
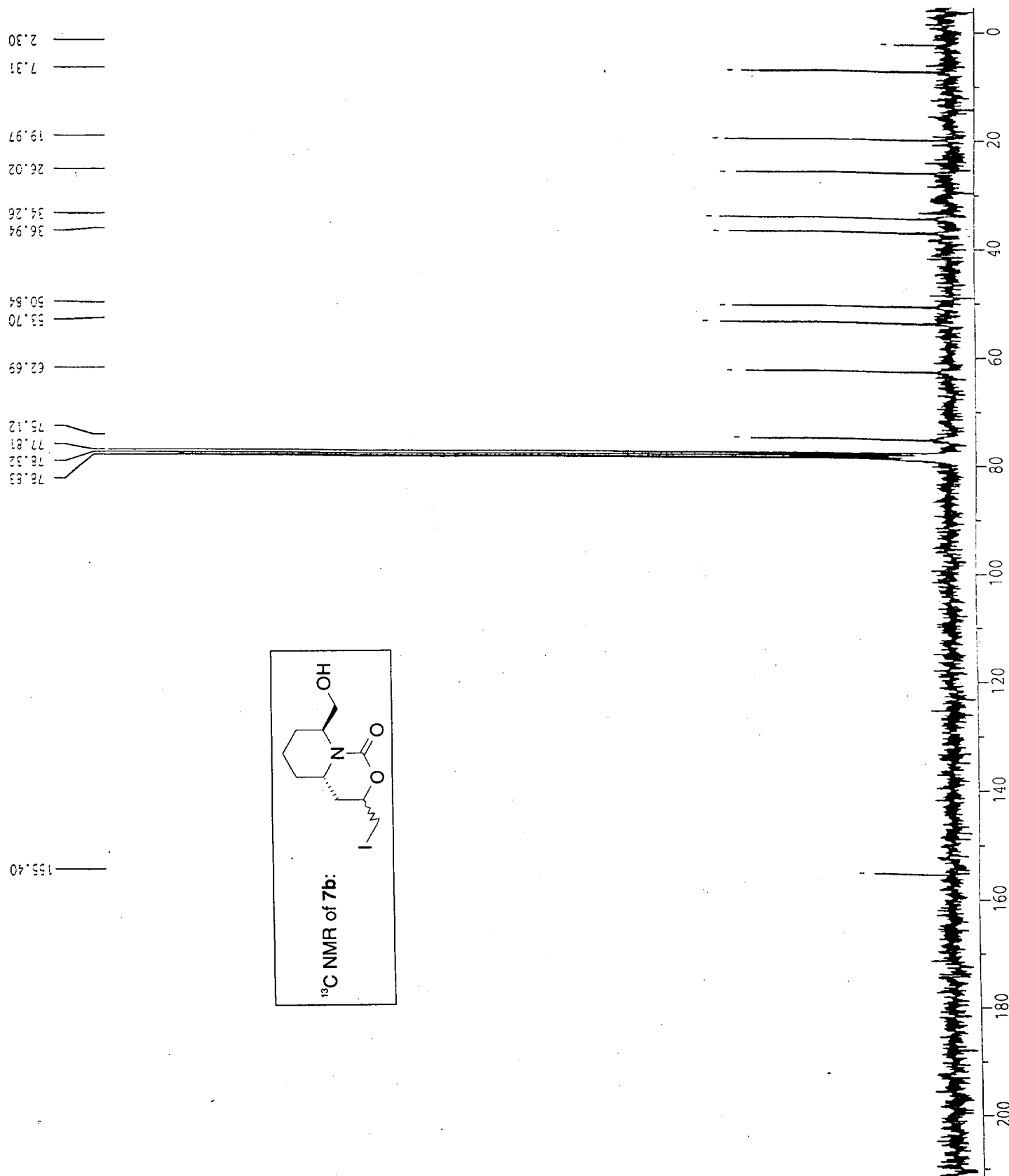


Current Data Parameters
 NAME h274035B
 EXPNO 11
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980128
 Time_ 0.19
 INSTRUM spect
 PROBHD 5mm 1H/13C inv
 PULPROG zgpg30
 TD 16384
 SOLVENT CDCl3
 NS 4096
 DS 2
 SWH 16129.032 Hz
 FIDRES 0.984438 Hz
 AQ 0.5079540 sec
 RG 45500
 DW 31.000 usec
 DE 44.29 usec
 TE 300.0 K
 D12 0.00002000 sec
 DL6 35.00 usec
 D1 0.60000002 sec
 CPDPRG waltz16
 P31 100.00 usec
 D11 0.03000000 sec
 DL5 27.00 usec
 P1 9.00 usec
 DE 44.29 usec
 SF01 62.9029305 MHz
 NUCLEUS 13C

F2 - Processing parameters
 SI 16384
 SF 62.8951584 MHz
 WDW EM
 SSB 0
 LB 0
 GB 0
 PC 1.40

ID NMR plot parameters
 CX 24.00 usec
 F1P 230.000 usec
 F1 14465.89 Hz
 F2P -10.000 usec
 F2 -628.95 Hz
 PPMCH 10.00000 usec
 HZCH 628.95154 Hz



*** Current Data Parameters ***

NAME : h27nd256
 EXPNO : 10
 PROCNO : 1

*** Acquisition Parameters ***

CPDPRG :
 DATE_1 : 21:01:23
 DATE_d : Oct 27 1998
 DE : 135.7 usec
 DS : 0
 INSTRUM : spect
 NS : 32

PROBHD : 5mm 1H/13C inverse

PULPROG : zg30

SFO1 : 250.1315321 MHz

SOLVENT : CDCl3

SW_h : 5263.158 Hz

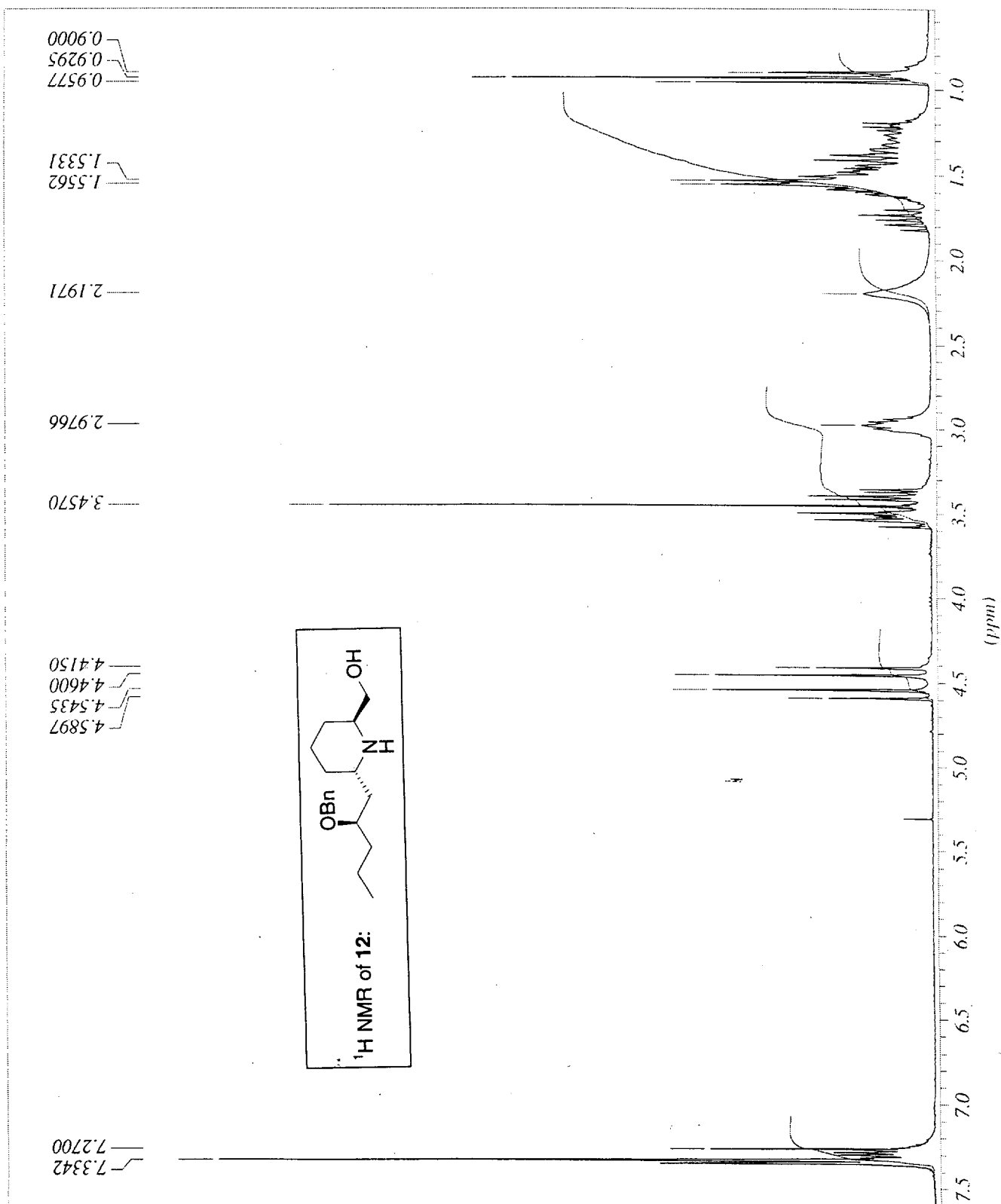
TD : 16384

*** Processing Parameters ***

GB : 0.0000000
 LB : 0.10 Hz
 PC : 1.00
 SF : 250.1300050 MHz
 SI : 16384
 SSB : 0.0000000
 WDW : EM

*** ID NMR Plot Parameters ***

Width : 21.20 cm
 Start : 7.73 ppm
 Stop : 0.53 ppm
 ppm_cm : 0.34
 Hz_cm : 84.93



*** Current Data Parameters ***

NAME : h27md256
 EXPNO : 11
 PROCNO : 1

*** Acquisition Parameters ***

CPDPRG : waltz16
 DATE_1 : 22:20:14
 DATE_2 : Oct 27 1998
 DE : 44.3 usec
 DS : 2
 INSTRUM : spect
 NS : 4096

PROBHD : 5mm 1H/13C inverse

PULPROG : zgpg30

SFO1 : 62.9029305 MHz

SOLVENT : CDCl3

SW_H : 16129.032 Hz

TD : 16384

*** Processing Parameters ***

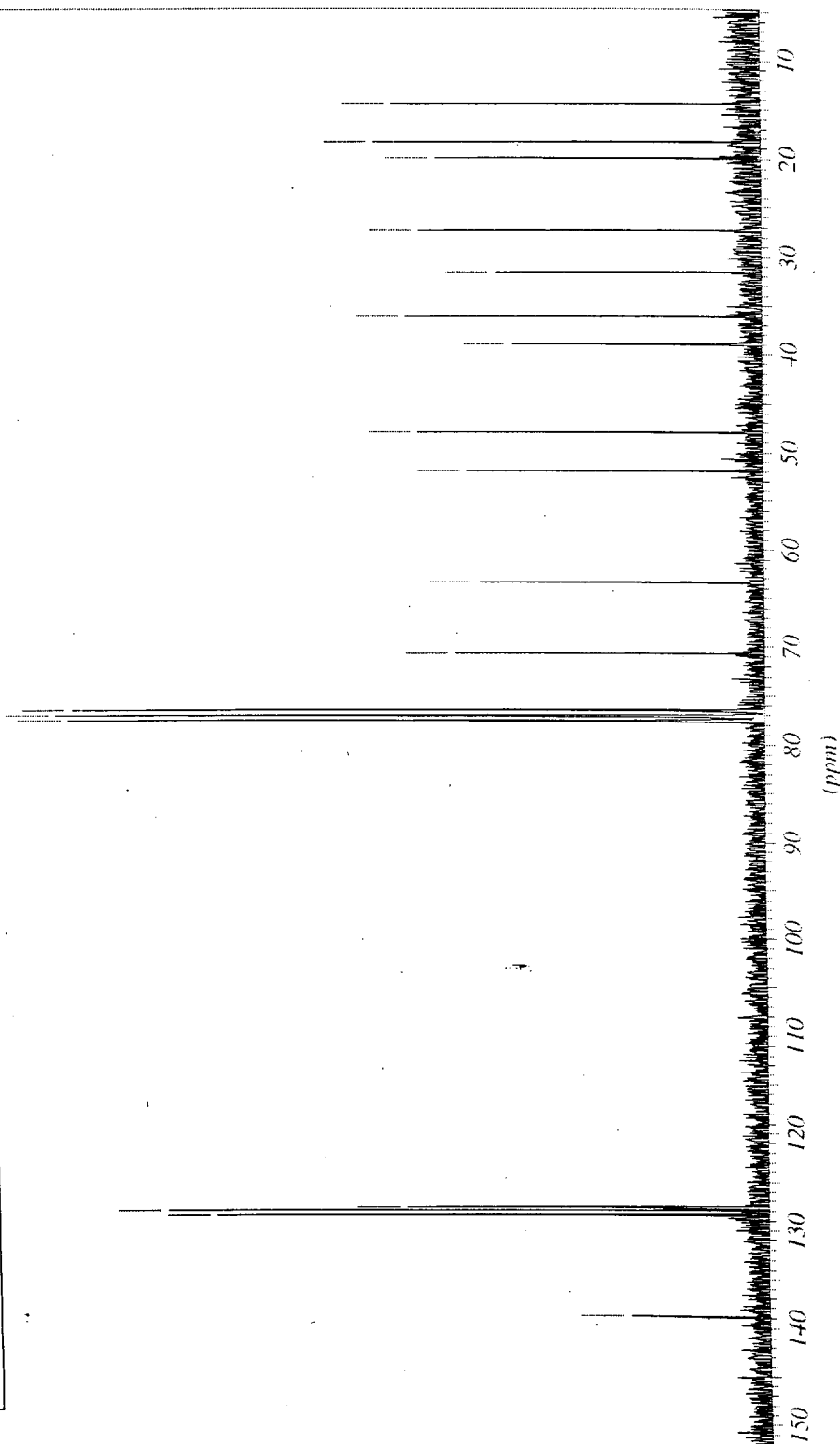
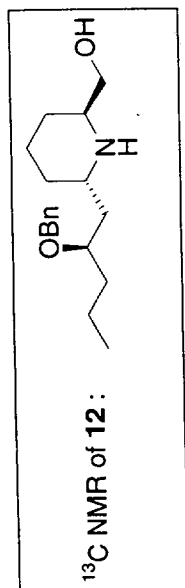
GB : 0.0000000
 LB : 3.00 Hz
 PC : 1.40
 SF : 62.8952350 MHz
 SI : 16384
 SSB : 0.0000000
 WDW : EM

*** 1D NMR Plot Parameters ***

Width : 21.20 cm
 Start : 159.24 ppm
 Stop : 4.77 ppm
 ppm_cm : 7.29
 Hz_cm : 458.27

14.3667
 18.3423
 19.9231
 27.2639
 31.5995
 36.1230
 39.0030
 48.0185
 51.9628
 63.4201
 70.7296
 76.5835
 77.1000
 77.1469
 77.6009

127.6247
 127.9534
 128.4386
 138.8316



*** Current Data Parameters ***

NAME : h29md257
EXPNO : 10
PROCNO : 1

*** Acquisition Parameters ***

CPDPRG :
DATE_1 : 16:10:11
DATE_d : Oct 29 1998
DE : 141.4 usec
DS : 0
INSTRUM : spect
NS : 16

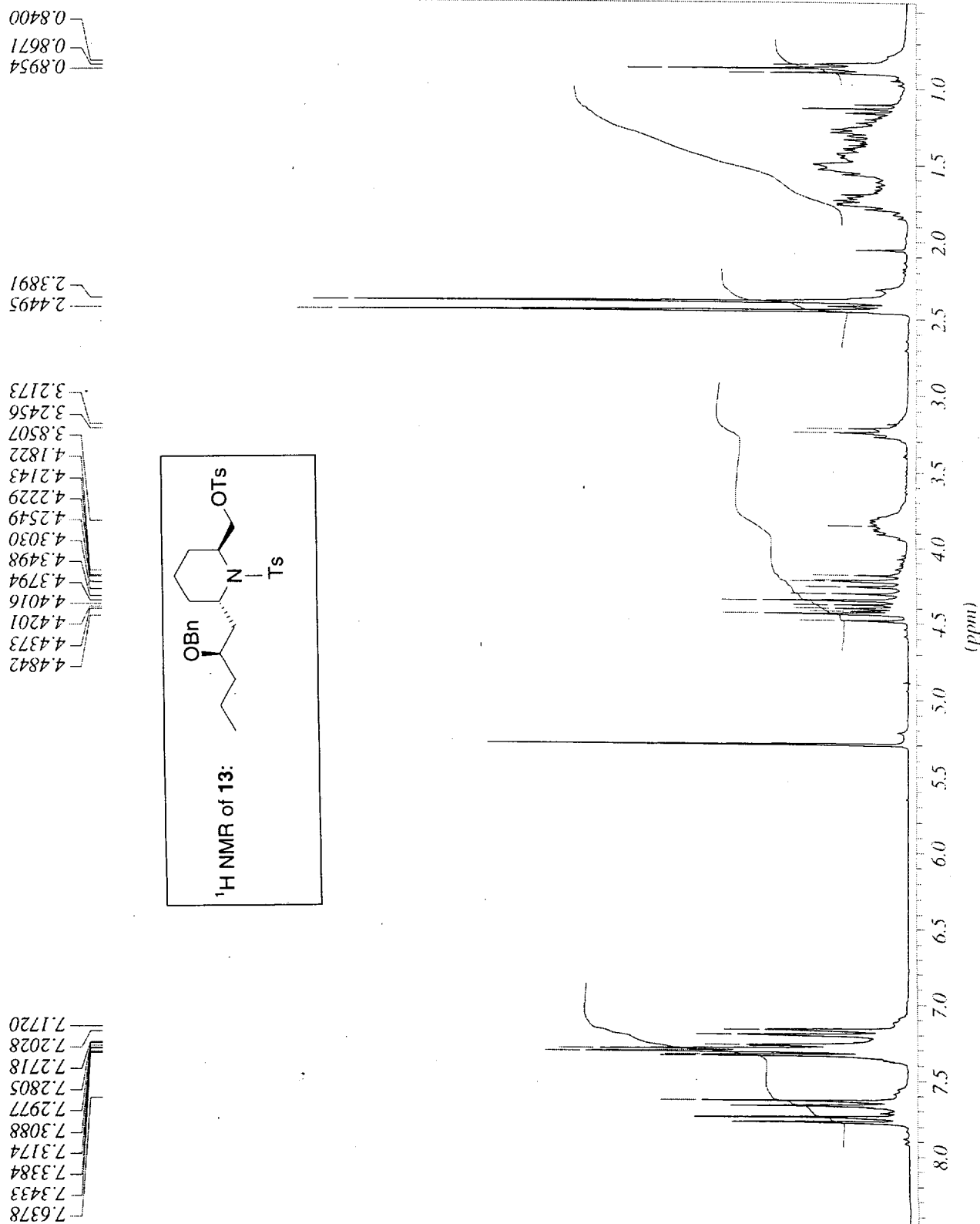
PROBHD : 5mm 1H/13C inverse
PULPROG : zg30
SFO1 : 250.1312264 MHz
SOLVENT : CDCl3
SW_h : 5050.505 Hz
TD : 32768

*** Processing Parameters ***

GB : 0.0000000
LB : 0.10 Hz
PC : 1.00
SF : 250.1300050 MHz
SI : 16384
SSB : 0.0000000
WDW : EM

*** 1D NMR Plot Parameters ***

Width : 21.20 cm
Start : 8.58 ppm
Stop : 0.44 ppm
ppm_cm : 0.38
Hz_cm : 96.13



*** Current Data Parameters ***

NAME : h29md257
 EXPNO : 11
 PROCNO : 1

*** Acquisition Parameters ***

CPDPRG : waltz16
 DATE_1 : 17:29:08
 DATE_d : Oct 29 1998
 DE : 44.3 usec
 DS : 2
 INSTRUM : spect
 NS : 4096

PROBHD : 5mm 1H/13C inverse

PULPROG : zgpg30

SFO1 : 62.9029305 MHz

SOLVENT : CDCl3

SW_h : 16129.032 Hz

TD : 16384

*** Processing Parameters ***

GB : 0.0000000
 LB : 3.00 Hz
 PC : 1.40

SF : 62.8952370 MHz

SI : 16384

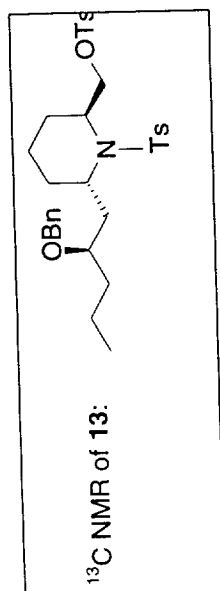
SSB : 0.0000000

WDW : EM

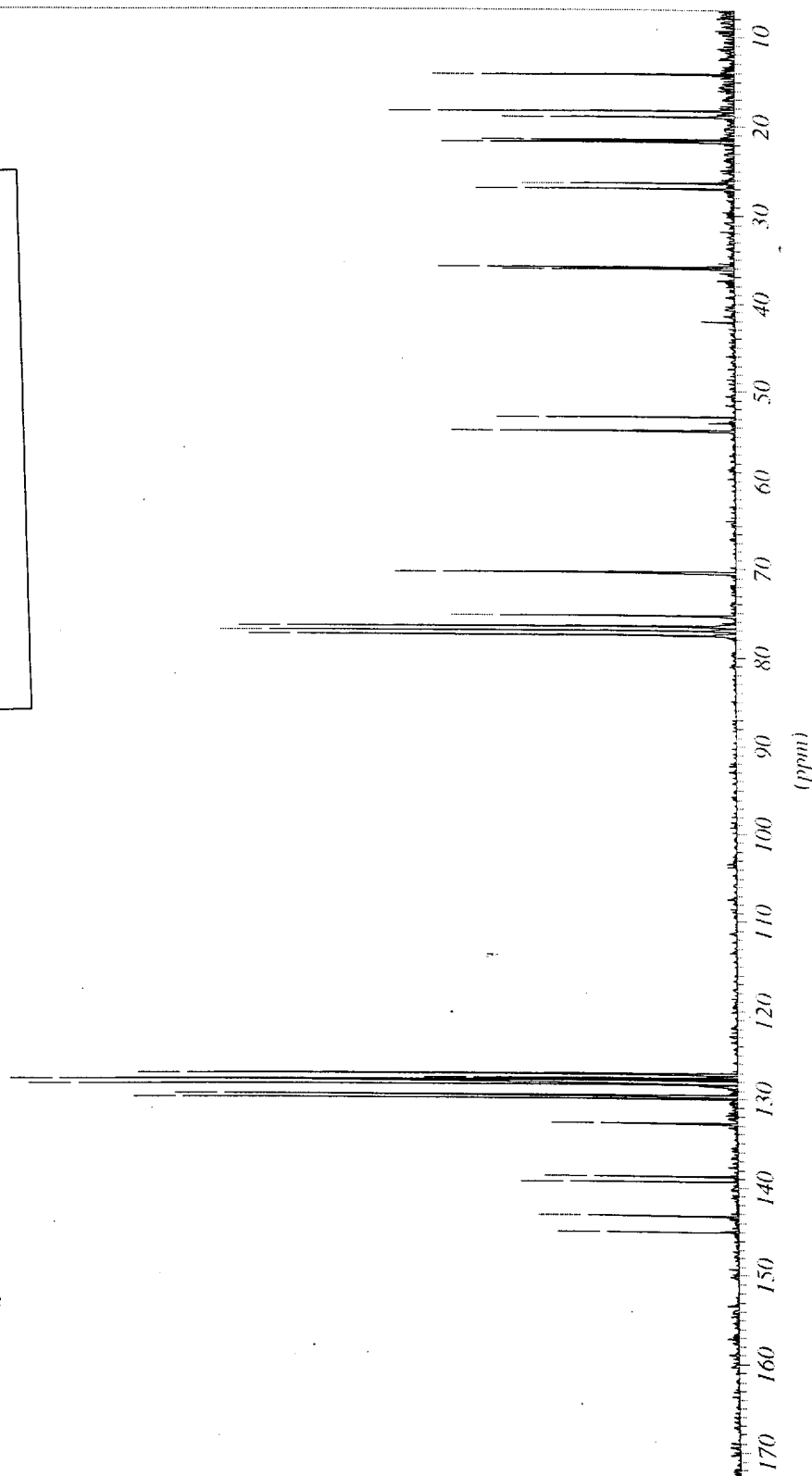
*** 1D NMR Plot Parameters ***

Width : 21.20 cm
 Start : 175.96 ppm
 Stop : 7.01 ppm
 ppm_cm : 7.97
 Hz_cm : 501.23

14.2414
 18.3579
 19.0153
 21.5196
 21.7075
 26.3405
 27.0135
 35.8882
 36.1386
 52.8707
 54.3889
 70.3853
 70.4479
 75.3783
 76.5991
 77.1000
 77.6165



127.2334
 127.5934
 127.9065
 127.9847
 128.4073
 129.5499
 129.9725
 132.7586
 138.6907
 139.3325
 143.1672
 144.9985



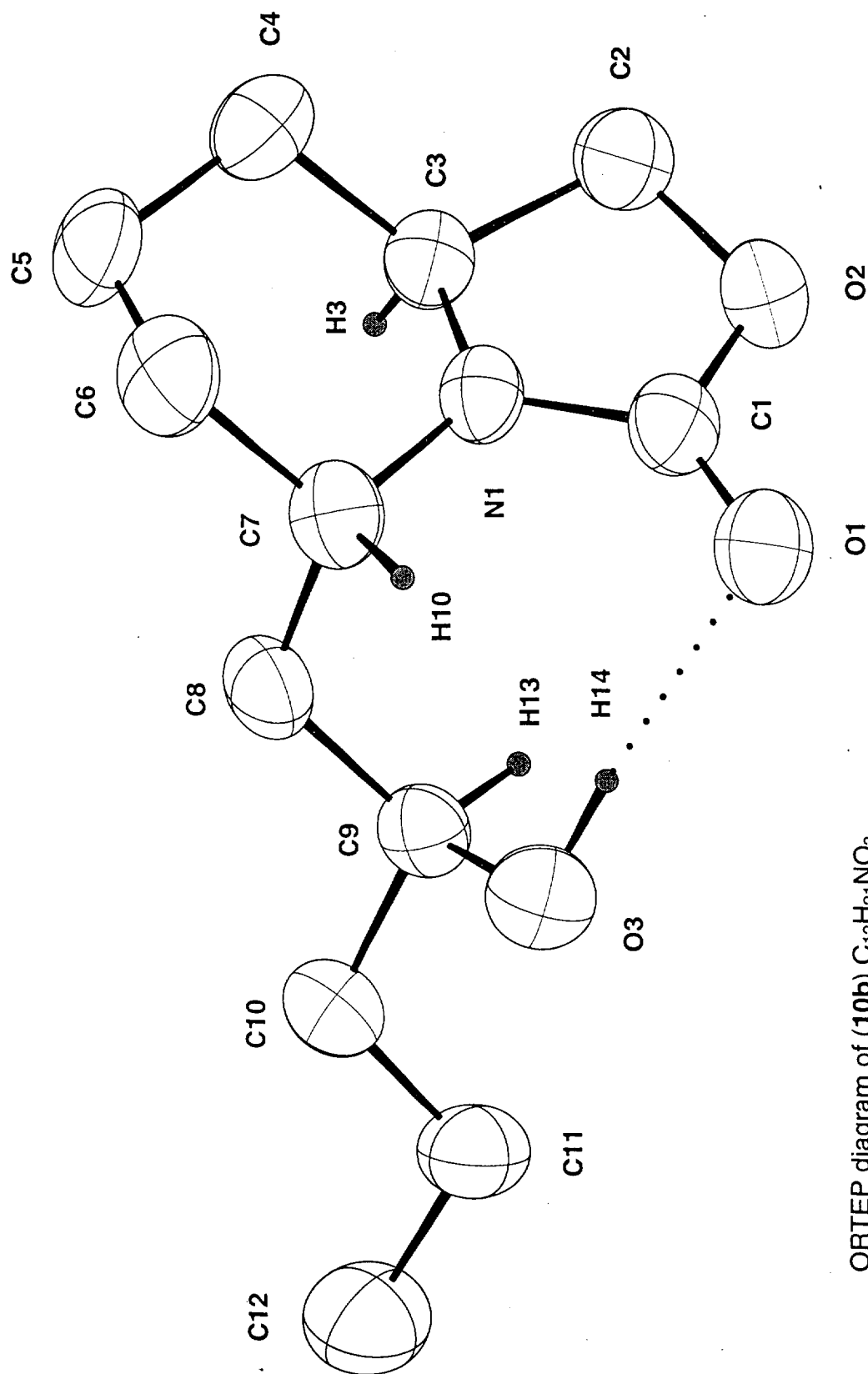


Table 1: Fractional atomic coordinates (e.s.d.'s) for **10b**

Atom	C ₁₂ H ₂₁ NO ₃			U _{eq} ^a	U _{iso}
	x/a	y/b	z/c		
O(1)	1.0428(4)	0.6304(3)	0.5470(1)	0.0879	
O(2)	0.8456(4)	0.8016(2)	0.5859(1)	0.0822	
O(3)	0.9121(4)	0.4212(3)	0.4587(1)	0.0798	
N(1)	0.7185(4)	0.5944(3)	0.5945(1)	0.0603	
C(1)	0.8825(5)	0.6688(4)	0.5735(2)	0.0689	
C(2)	0.6544(7)	0.8137(4)	0.6223(2)	0.0811	
C(3)	0.5403(5)	0.6793(3)	0.6124(1)	0.0652	
C(4)	0.4303(7)	0.6221(4)	0.6717(2)	0.0848	
C(5)	0.3842(7)	0.4714(5)	0.6625(2)	0.0879	
C(6)	0.5831(8)	0.3927(4)	0.6468(2)	0.0858	
C(7)	0.6983(6)	0.4475(3)	0.5866(2)	0.0696	
C(8)	0.5886(6)	0.4080(3)	0.5234(2)	0.0747	
C(9)	0.6914(5)	0.4565(3)	0.4611(2)	0.0632	
C(10)	0.5847(6)	0.3941(3)	0.4025(2)	0.0767	
C(11)	0.6567(7)	0.4459(4)	0.3373(2)	0.0861	
C(12)	0.5302(8)	0.3825(6)	0.2818(2)	0.1111	
H(1)	0.5660	0.8912	0.6049		0.099(3)
H(2)	0.6829	0.8301	0.6696		0.099(3)
H(3)	0.4228	0.6819	0.5796		0.099(3)
H(4)	0.2944	0.6723	0.6785		0.099(3)
H(5)	0.5228	0.6347	0.7107		0.099(3)
H(6)	0.2831	0.4603	0.6250		0.099(3)
H(7)	0.3200	0.4342	0.7029		0.099(3)
H(8)	0.5475	0.2945	0.6391		0.099(3)
H(9)	0.6827	0.3987	0.6851		0.099(3)
H(10)	0.8440	0.4096	0.5817		0.099(3)
H(11)	0.4431	0.4455	0.5248		0.099(3)
H(12)	0.5834	0.3063	0.5217		0.099(3)
H(13)	0.6906	0.5577	0.4599		0.099(3)
H(14)	0.9520	0.4853	0.4895		0.099(3)
H(15)	0.4312	0.4121	0.4066		0.099(3)
H(16)	0.6131	0.2945	0.4038		0.099(3)
H(17)	0.6292	0.5456	0.3350		0.099(3)
H(18)	0.8079	0.4260	0.3315		0.099(3)
H(19)	0.5825	0.4131	0.2393		0.099(3)
H(20)	0.3786	0.3958	0.2874		0.099(3)
H(21)	0.5572	0.2762	0.2839		0.099(3)

Table 2 : Anisotropic thermal parameters for **10b** C₁₂H₂₁NO₃

They enter the expression for the structure factor in the form :

$$\exp [-2\pi^2(U_{11}h^2a^{*2} + U_{22}k^2b^{*2} + U_{33}l^2c^{*2} + 2 U_{12}hka^*b^* + 2 U_{13}hla^*c^* + 2 U_{23}klb^*c^*)]$$

Atom	U ₁₁	U ₂₂	U ₃₃	U ₂₃	U ₁₃	U ₁₂
O(1)	0.058(1)	0.111(2)	0.108(2)	-0.009(2)	0.000(1)	-0.011(1)
O(2)	0.087(2)	0.076(1)	0.093(2)	-0.004(1)	0.003(1)	-0.025(1)
O(3)	0.077(1)	0.076(1)	0.091(2)	-0.001(1)	-0.002(1)	0.017(1)
N(1)	0.058(1)	0.066(1)	0.060(1)	0.010(1)	-0.005(1)	-0.006(1)
C(1)	0.060(2)	0.085(2)	0.067(2)	0.003(2)	-0.010(2)	-0.008(2)
C(2)	0.091(2)	0.077(2)	0.077(2)	0.002(2)	0.003(2)	-0.004(2)
C(3)	0.062(2)	0.074(2)	0.063(2)	0.007(1)	-0.007(2)	-0.003(2)
C(4)	0.088(2)	0.103(3)	0.071(2)	0.010(2)	0.013(2)	-0.002(2)
C(5)	0.103(3)	0.106(3)	0.080(2)	0.023(2)	0.017(2)	-0.033(3)
C(6)	0.119(3)	0.080(3)	0.080(2)	0.031(2)	-0.007(2)	-0.013(3)
C(7)	0.077(2)	0.059(2)	0.079(2)	0.016(2)	-0.006(2)	0.002(2)
C(8)	0.090(2)	0.061(2)	0.080(2)	0.003(2)	-0.004(2)	-0.015(2)
C(9)	0.070(2)	0.050(1)	0.074(2)	0.000(1)	-0.000(2)	0.006(1)
C(10)	0.086(2)	0.065(2)	0.082(2)	-0.009(2)	-0.004(2)	-0.002(2)
C(11)	0.087(2)	0.101(3)	0.074(2)	-0.014(2)	-0.002(2)	0.001(2)
C(12)	0.111(3)	0.148(4)	0.086(3)	-0.011(3)	-0.012(2)	-0.007(4)

Table 3 : Interatomic distances (Å) and bond angles (°)

for **10b** C₁₂H₂₁NO₃

O(1) - C(1)	1.212(4)	C(4) - C(5)	1.521(6)
O(2) - C(1)	1.350(4)	C(5) - C(6)	1.513(6)
O(2) - C(2)	1.427(5)	C(6) - C(7)	1.531(5)
O(3) - C(9)	1.443(4)	C(7) - C(8)	1.518(5)
N(1) - C(1)	1.342(4)	C(8) - C(9)	1.510(5)
N(1) - C(3)	1.450(4)	C(9) - C(10)	1.507(5)
N(1) - C(7)	1.459(4)	C(10) - C(11)	1.501(5)
C(2) - C(3)	1.519(5)	C(11) - C(12)	1.524(6)
C(3) - C(4)	1.510(5)		
C(1) - O(2) - C(2)	109.0(3)	C(4) - C(5) - C(6)	111.3(4)
C(1) - N(1) - C(3)	111.8(3)	C(5) - C(6) - C(7)	112.9(3)
C(1) - N(1) - C(7)	124.8(3)	N(1) - C(7) - C(6)	107.4(3)
C(3) - N(1) - C(7)	121.9(3)	N(1) - C(7) - C(8)	112.9(2)
O(1) - C(1) - O(2)	122.1(3)	C(6) - C(7) - C(8)	112.2(3)
O(1) - C(1) - N(1)	128.6(4)	C(7) - C(8) - C(9)	116.2(3)
O(2) - C(1) - N(1)	109.3(3)	O(3) - C(9) - C(8)	111.7(3)
O(2) - C(2) - C(3)	105.2(3)	O(3) - C(9) - C(10)	108.1(3)
N(1) - C(3) - C(2)	99.4(3)	C(8) - C(9) - C(10)	110.5(3)
N(1) - C(3) - C(4)	110.4(3)	C(9) - C(10) - C(11)	115.7(3)
C(2) - C(3) - C(4)	115.8(3)	C(10) - C(11) - C(12)	111.4(3)
C(3) - C(4) - C(5)	110.6(3)		