

ORGANOMETALLICS

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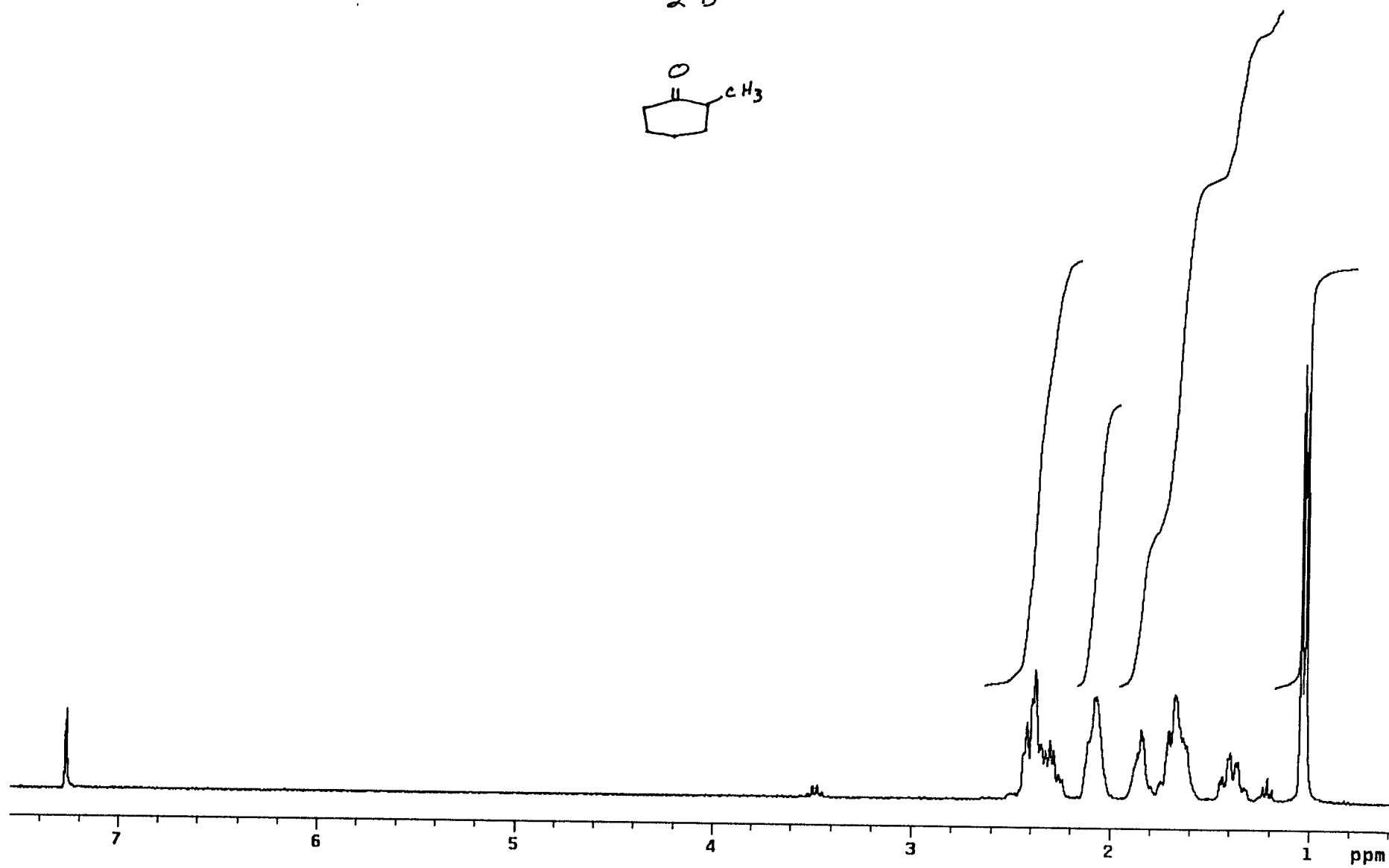
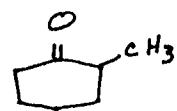


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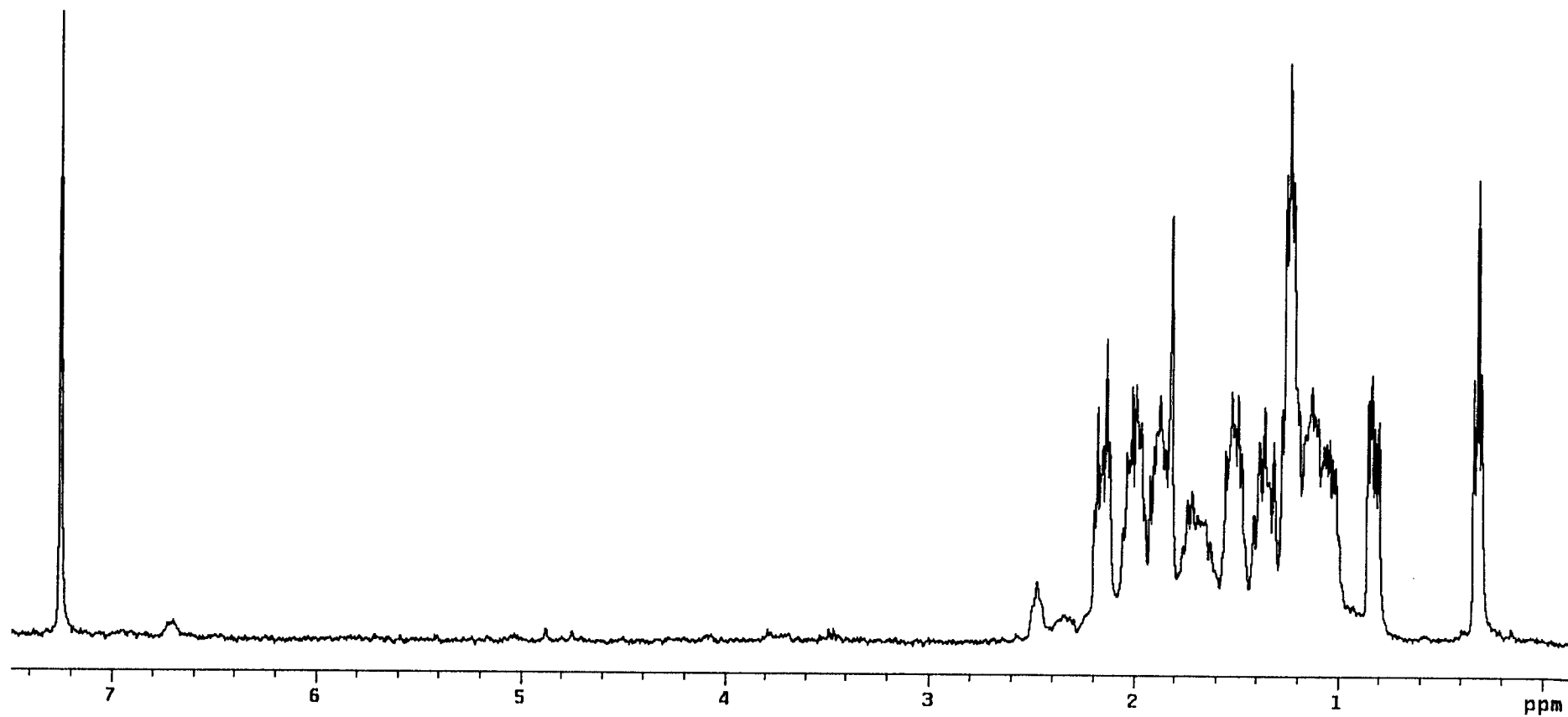
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2b

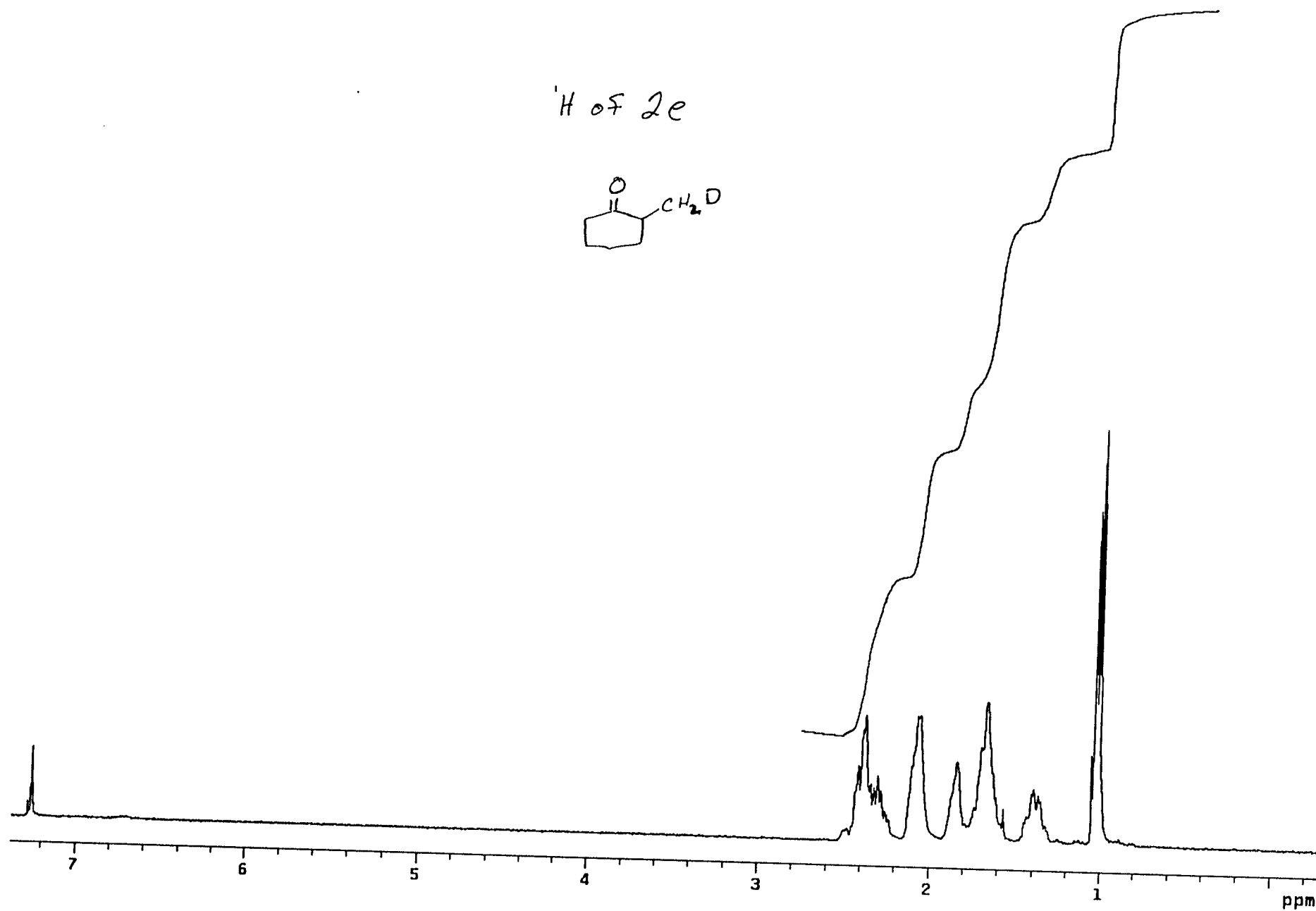
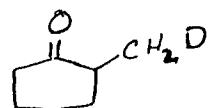


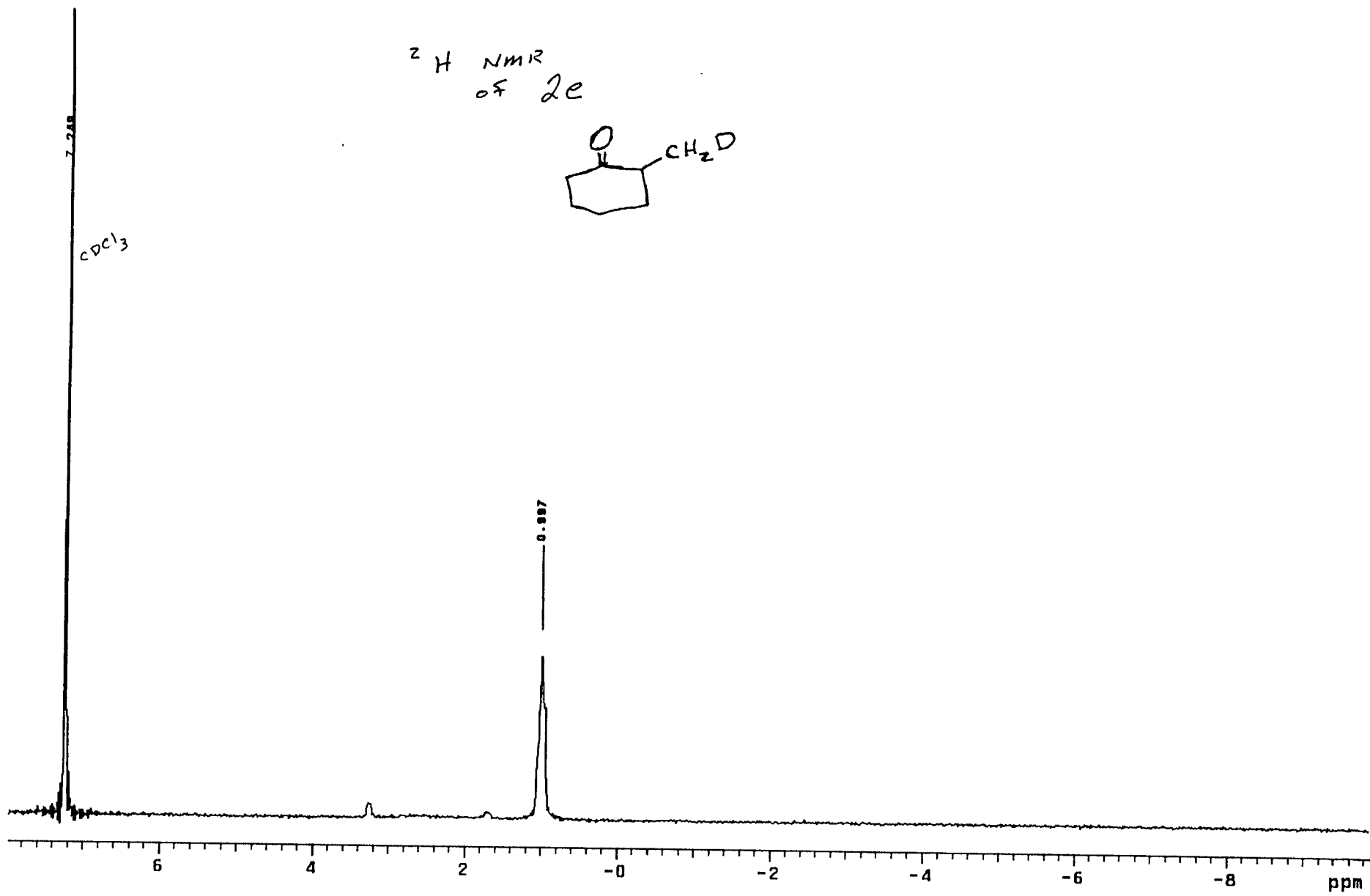
¹H NMR
of
1e



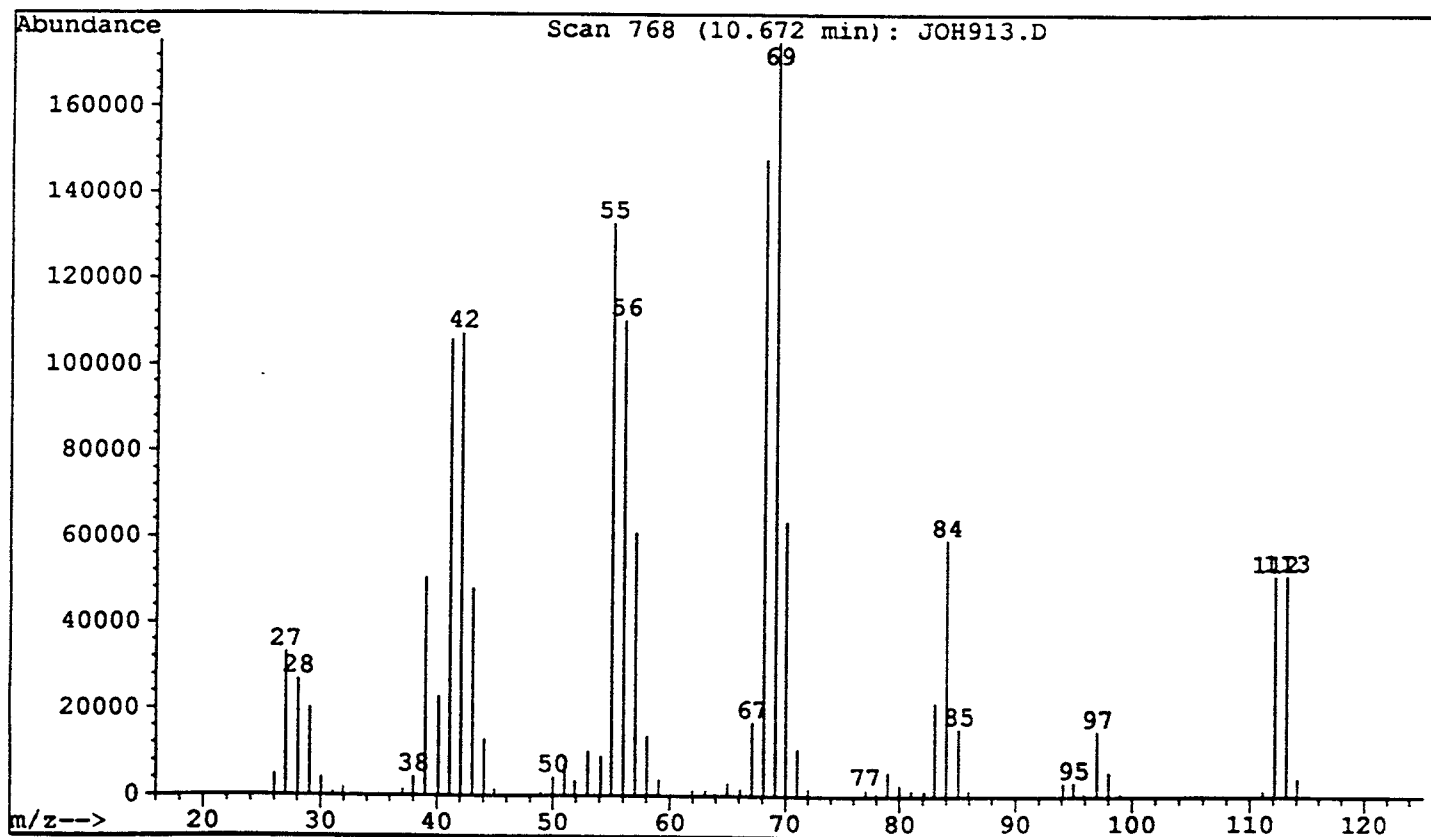
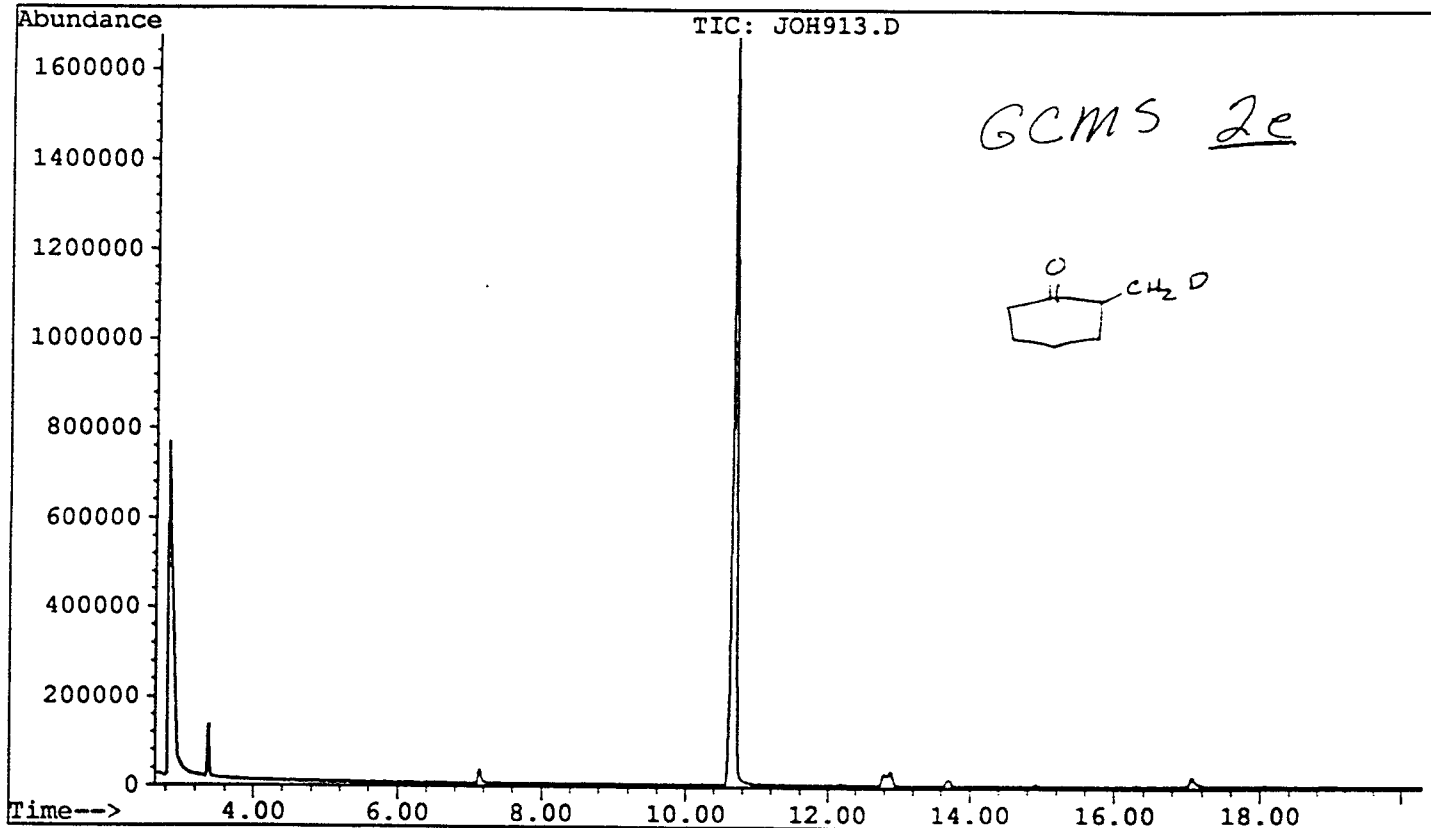
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2	1.035	1.2
3	1.032	1.2
4	1.014	1.5

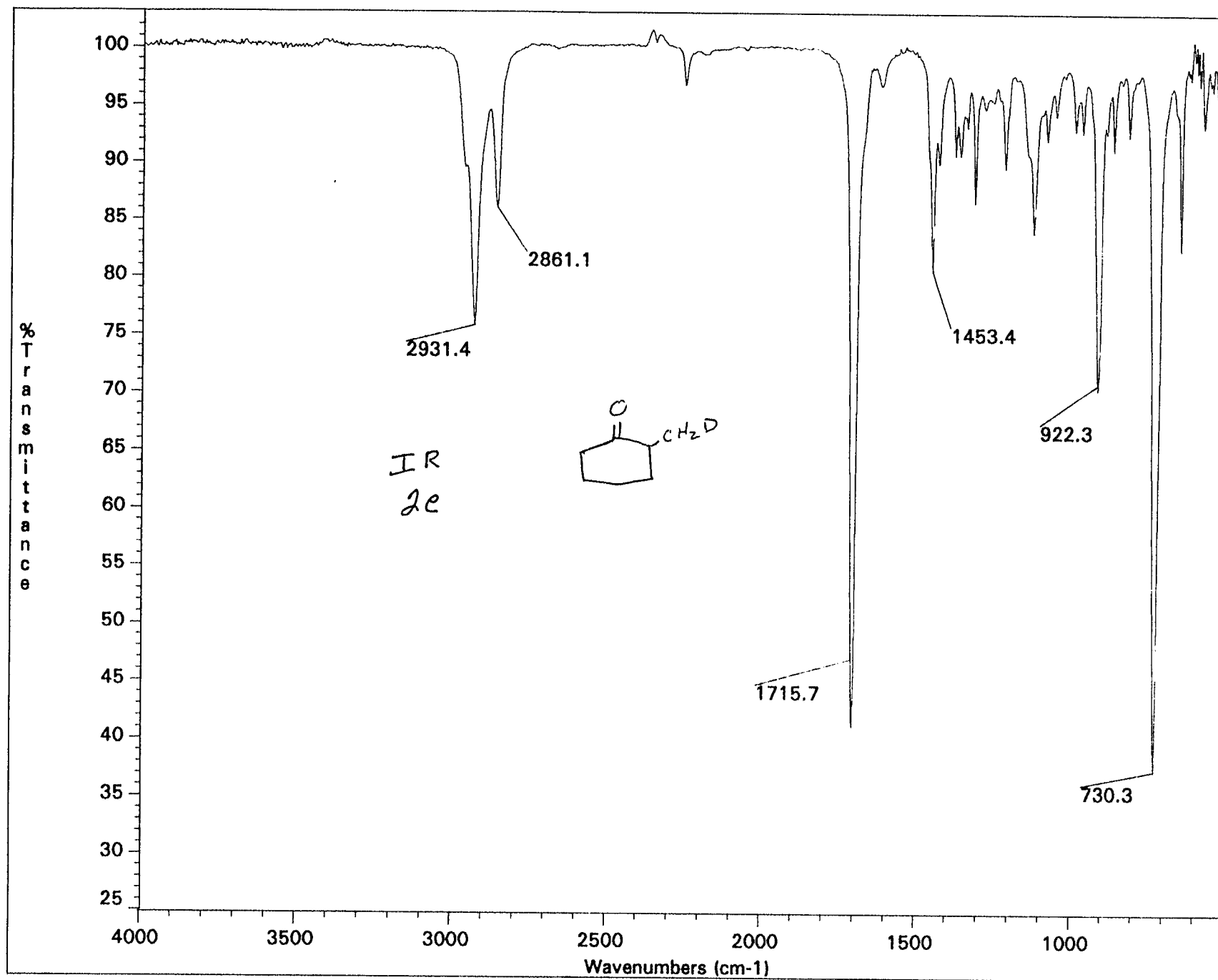
¹H of 2e



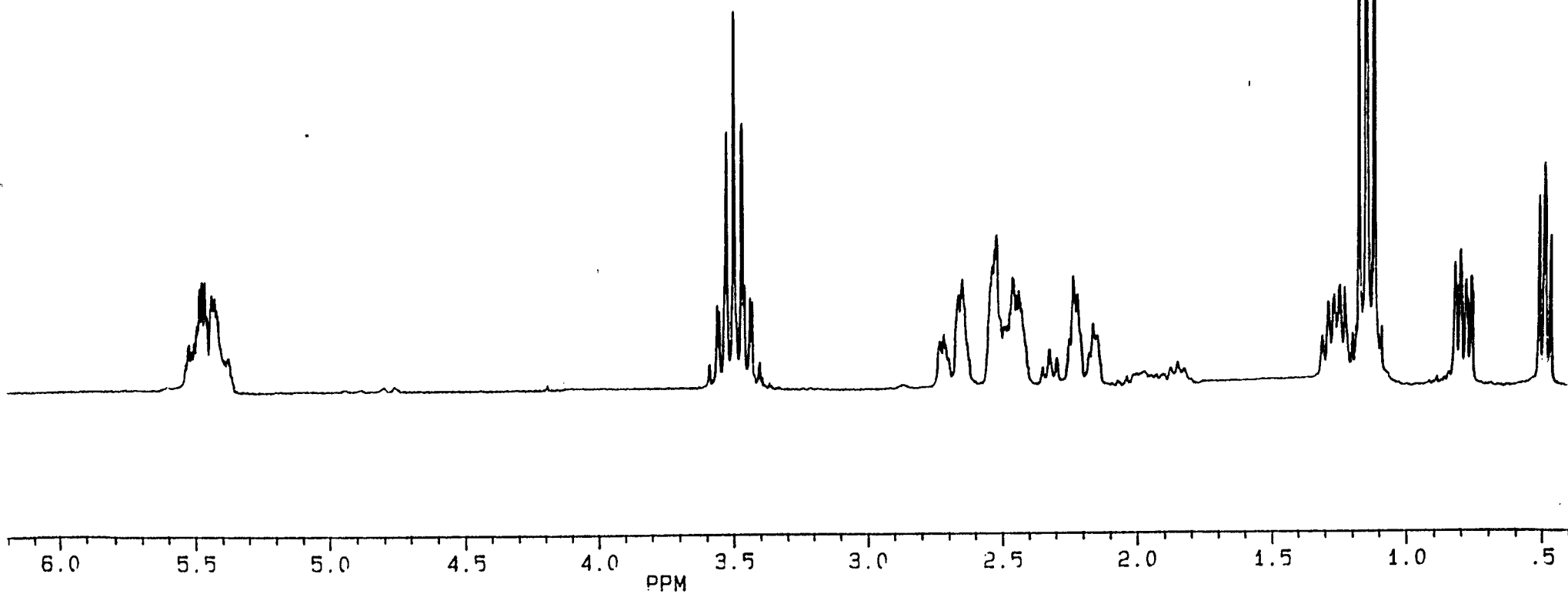
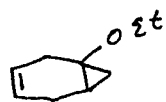


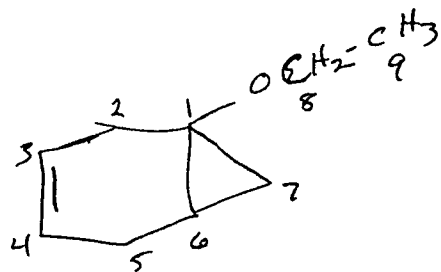
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Acquired : 13 Sep 95 4:33 pm using AcqMethod HOBERG.M
Instrument : GC/MS
Sample Name:
Misc Info :
Vial Number: 1



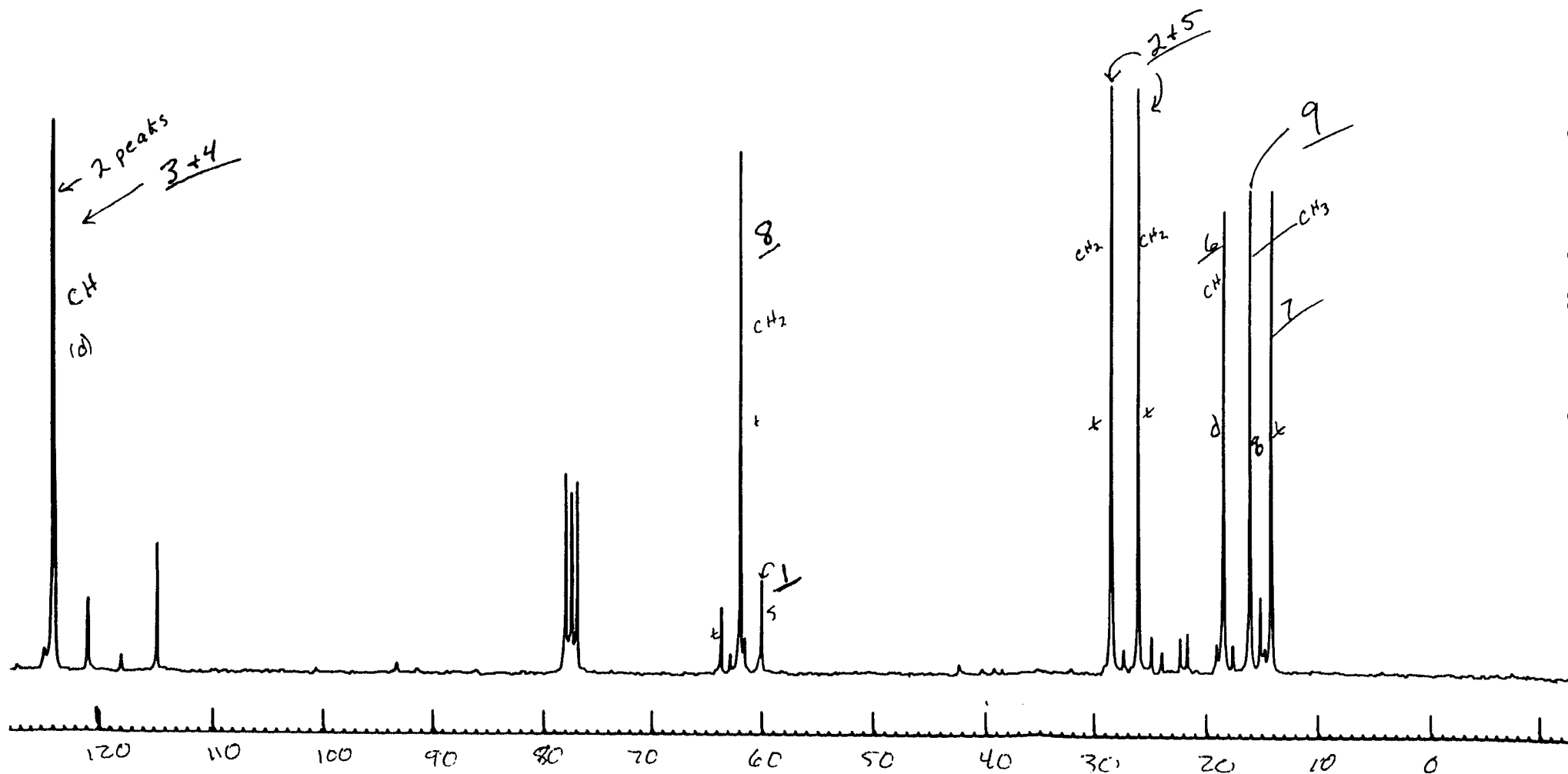


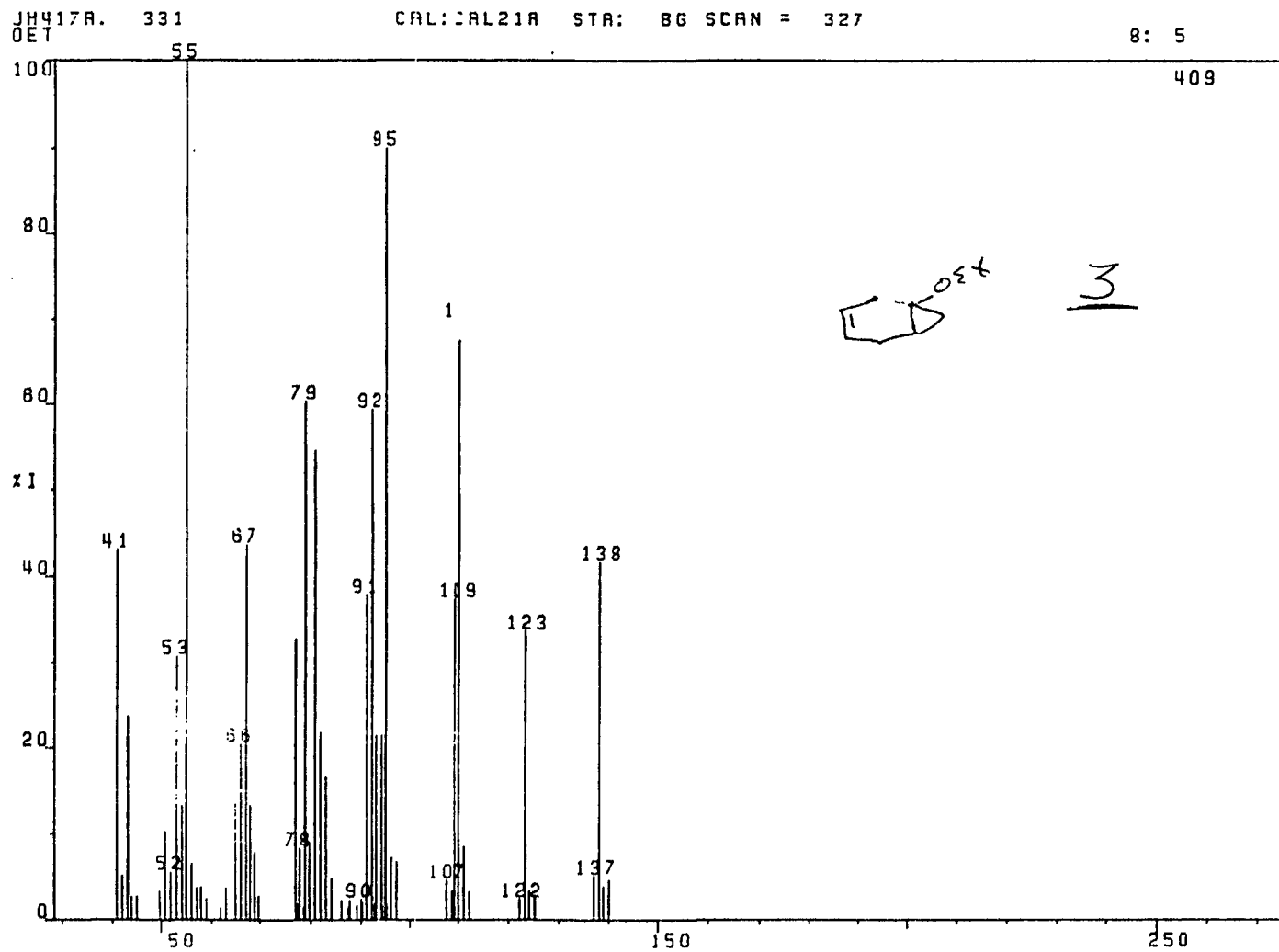
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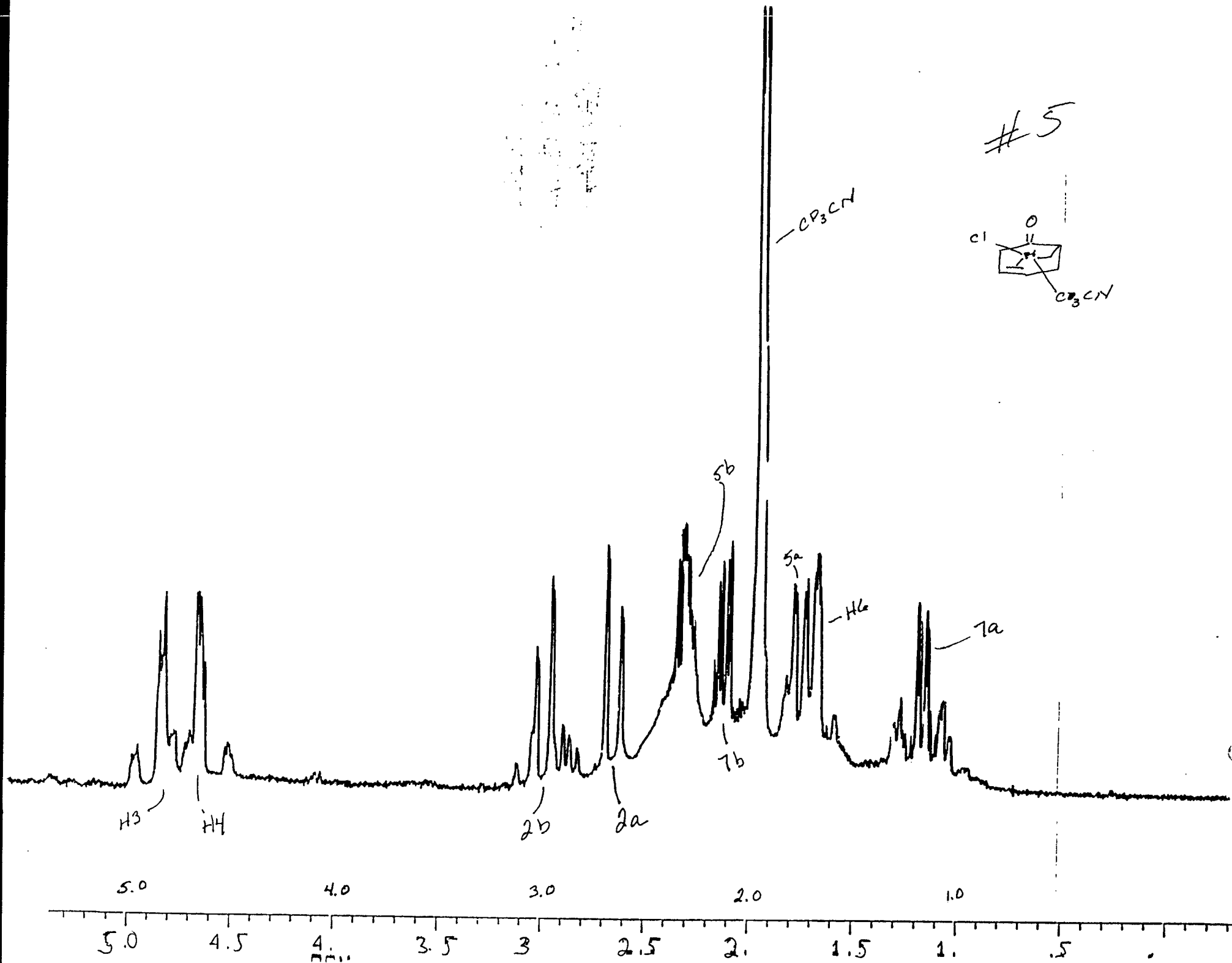


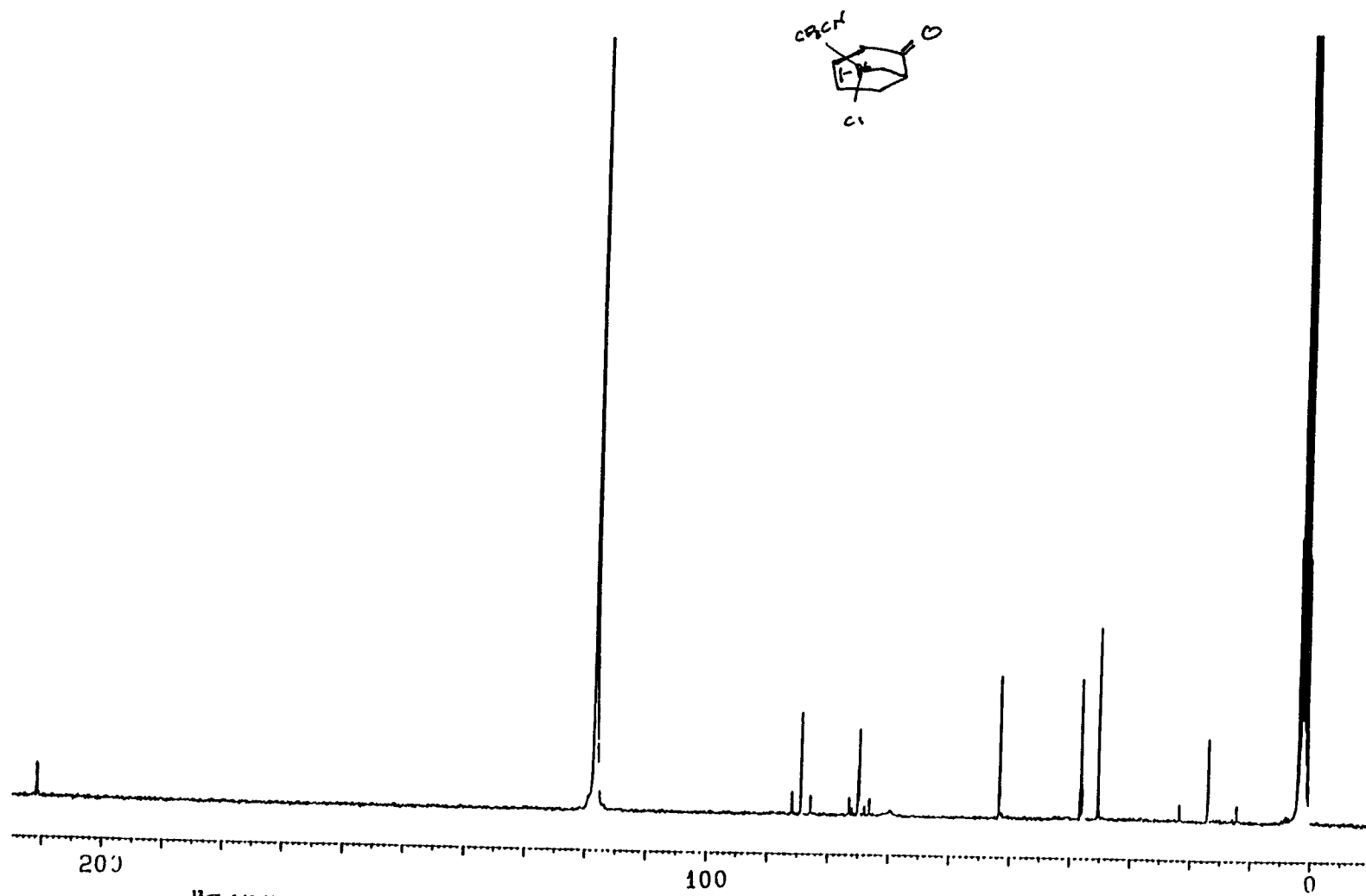


3









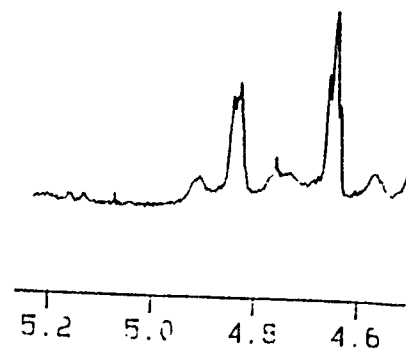
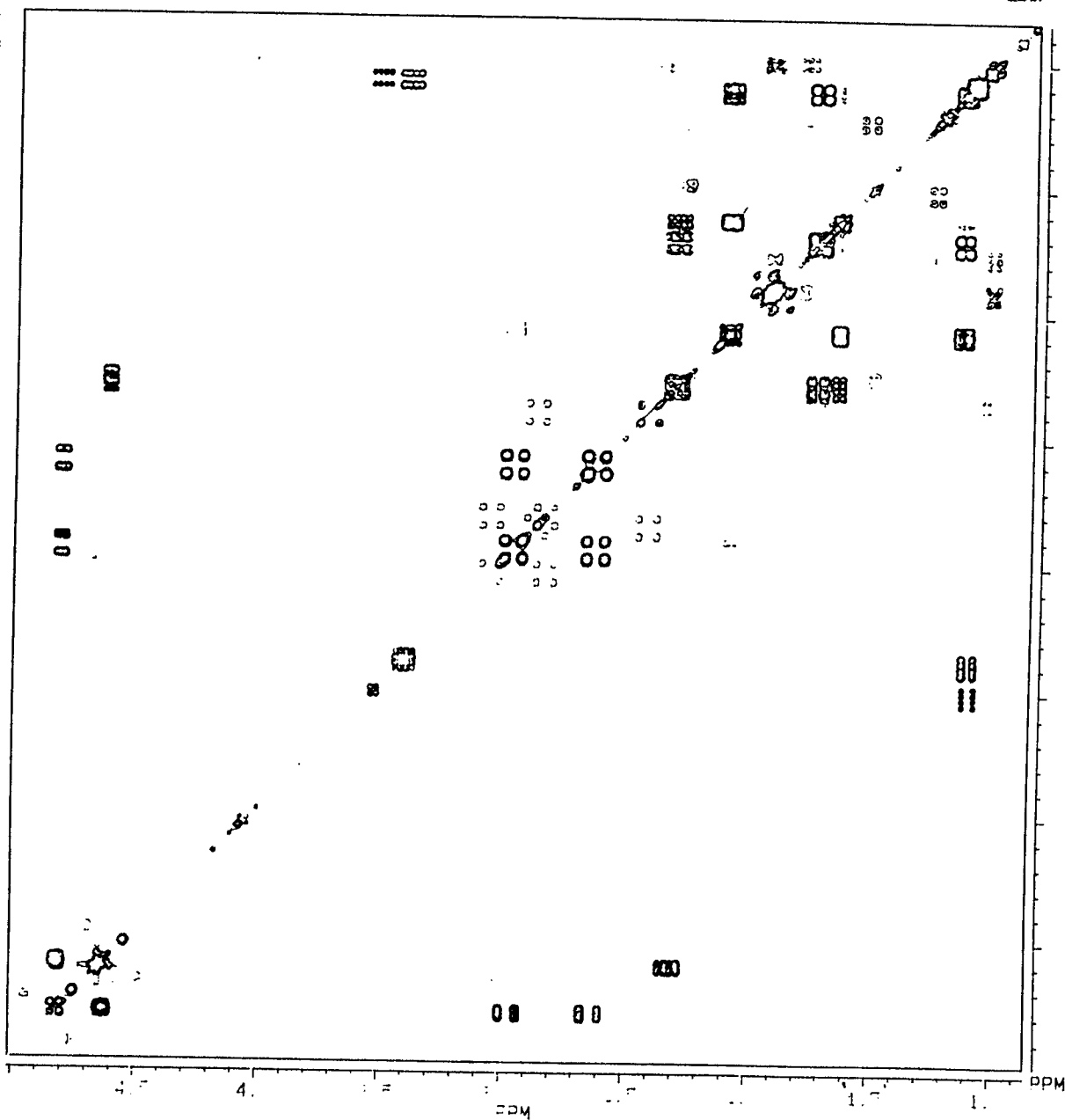
^{13}C NMR Spectrum of

5

~~BAUER~~

F21CH.MX
 F1 PR
 C11H.M1
 F2 PR
 C11H.M1
 AU PR
 C11H.M1
 DATE 11-1-96

D1 1.4
 D1 5.1
 SW2 1250
 SW1 615
 ND 1
 WDW2 5
 WDW1 5
 SSB2 5
 SSB1 5
 M2 4
 PLIM 5
 F1 1.1p
 F2 1.3p
 AND LUMN
 F1 4.9p
 F2 1.3p
 D1 1.5
 D1 5.1
 D2 5.1
 D3 5.1
 D4 5.1
 D5 5.1
 D6 5.1
 D7 5.1
 D8 5.1
 D9 5.1
 D10 5.1
 D11 5.1
 D12 5.1
 D13 5.1
 D14 5.1
 D15 5.1
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 D100 5.1



H + COSY



CO₂CH

Et₂O

Et₂O

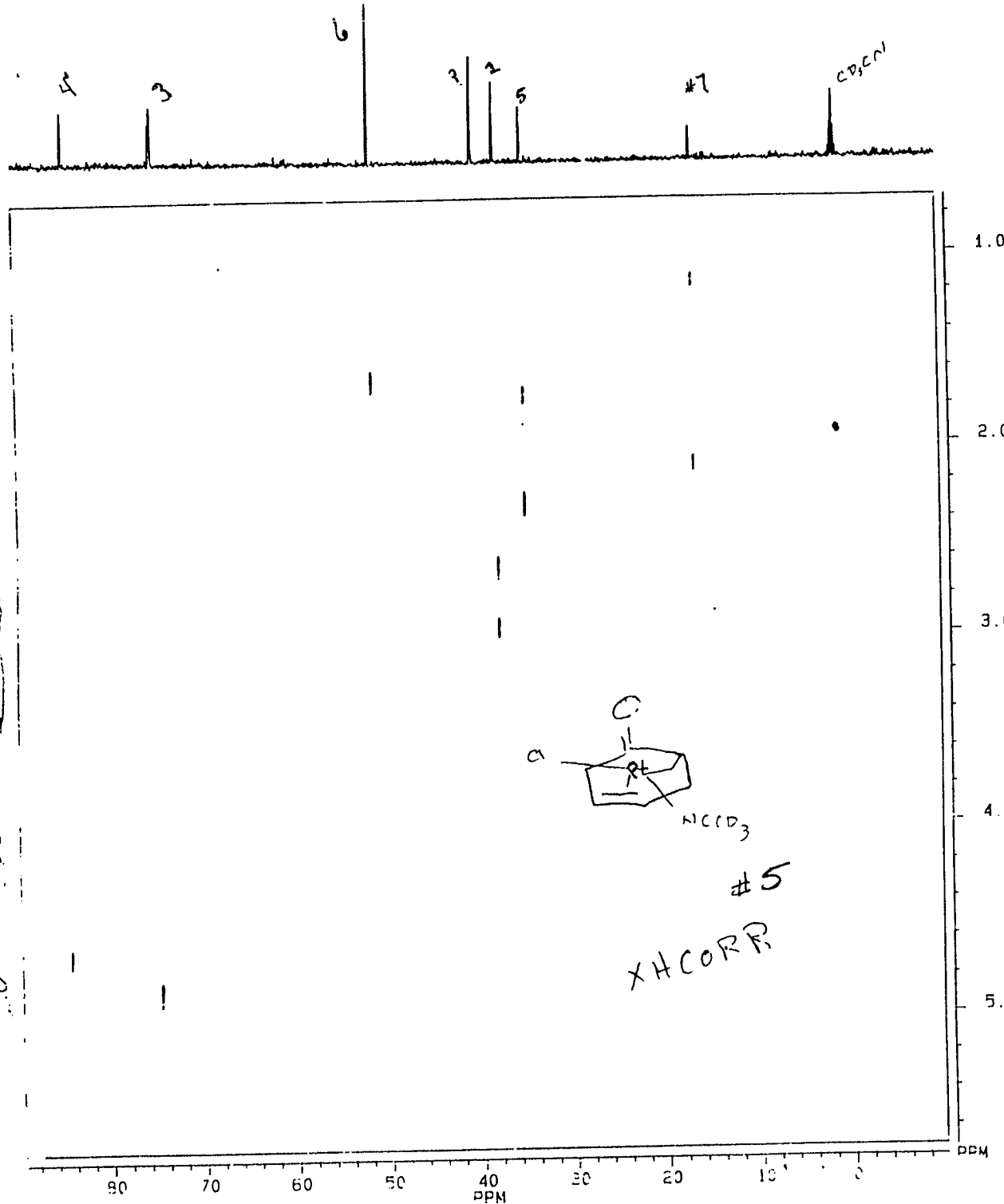
~~BAUKER~~

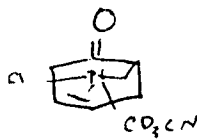
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F1 PROJ.
I015JH
F2 PROJ.
INTERNAL
AU PROG.
XHCORR AU
DATE 15-10-88

SI2 4096
SI1 1024
SW2 12500.000
SW1 1250.625
ND0 2

WDW2 Q
WDW1 Q
SSB2 Q
SSB1 4
MC2 M
PLIM ROW:
F1 89.530P
F2 -9.817P
AND COLUMN:
F1 5.709P
F2 .713P

D1 2.0000000
S1 0H
P1 13.00
D0 .0000030
P4 12.50
D3 .0035200
P3 6.30
D4 .0017600
S2 20H
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NS 128
DS 2
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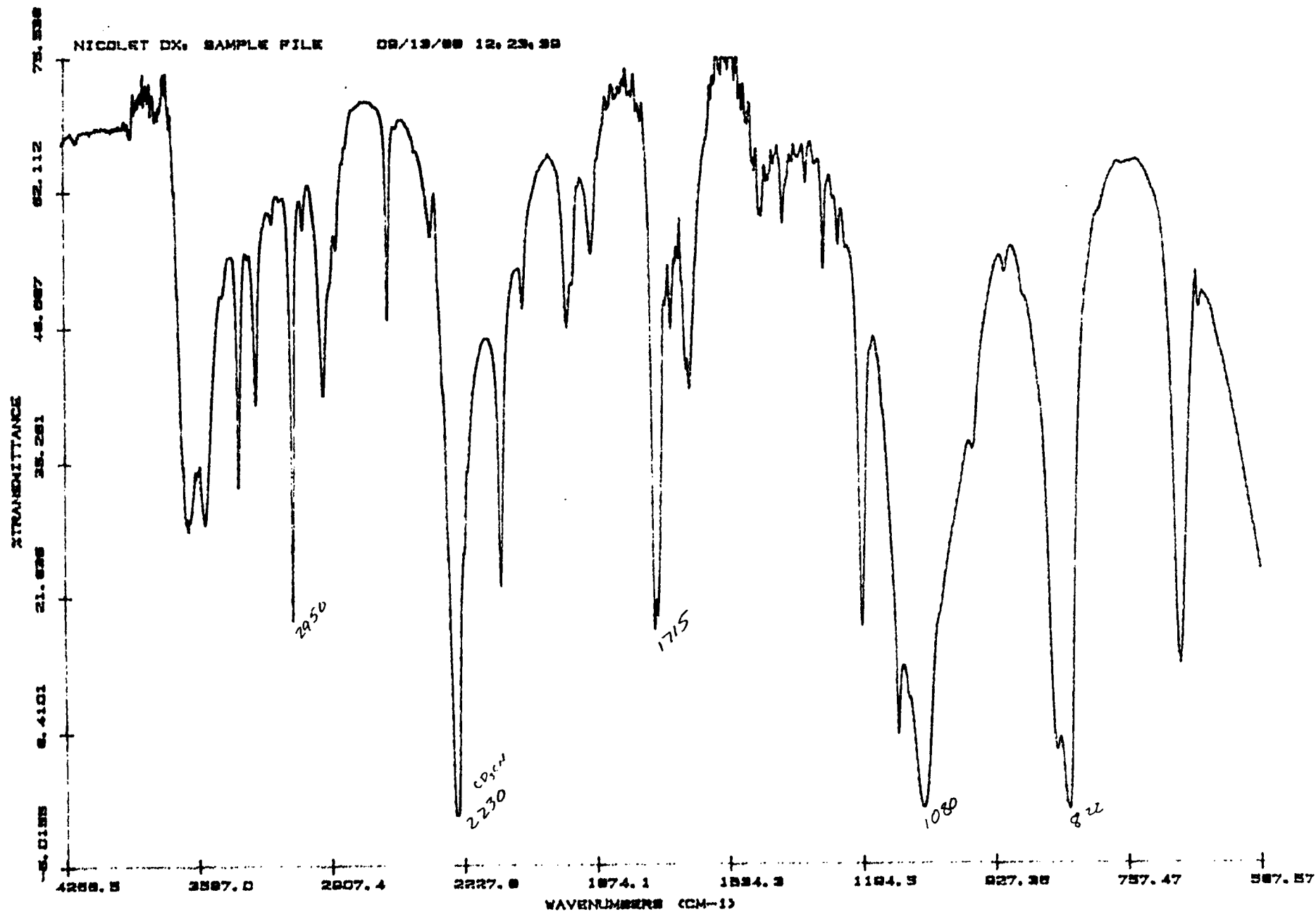


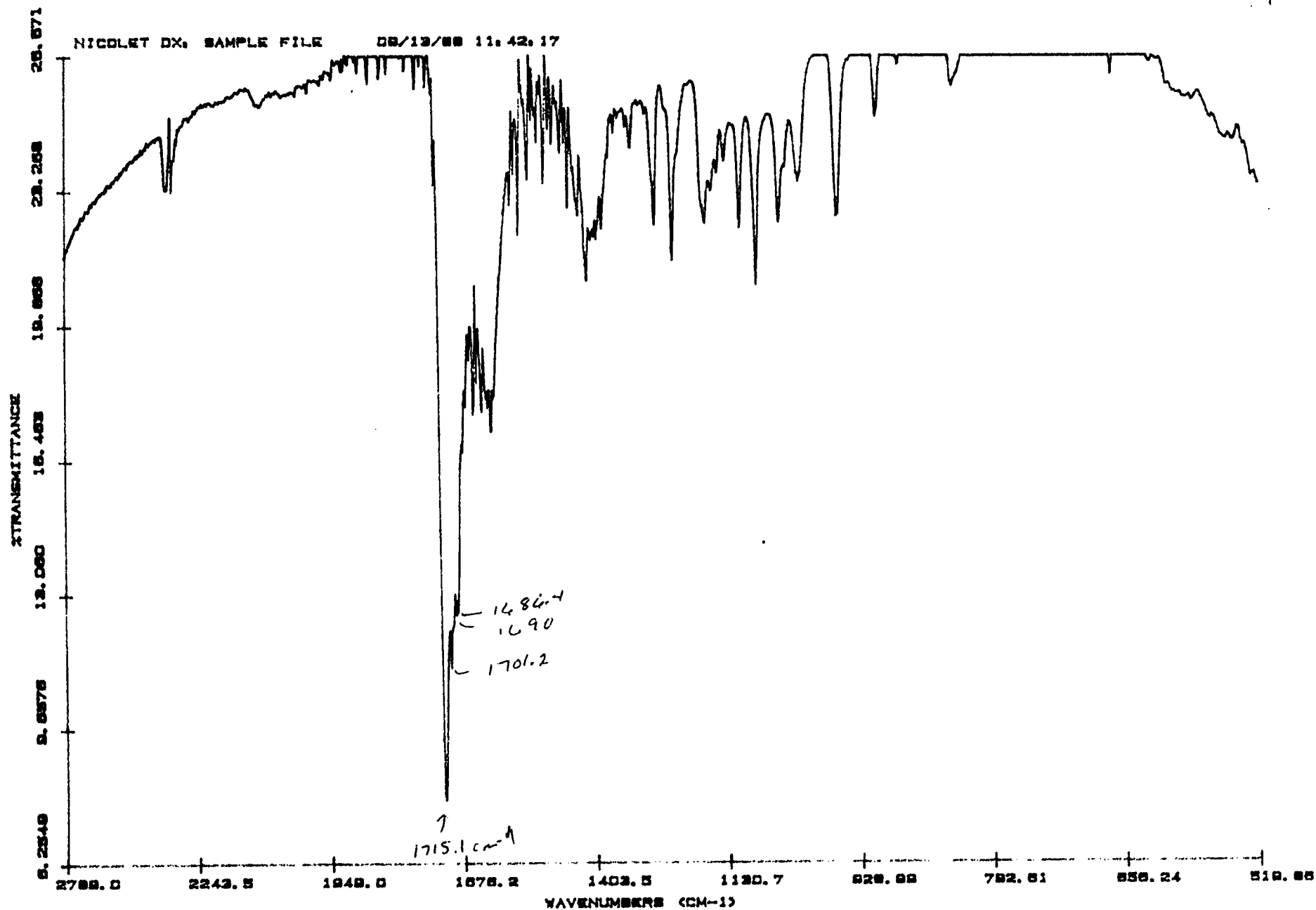
Pt NMR of 5

ppm = 1026.5



IR 5

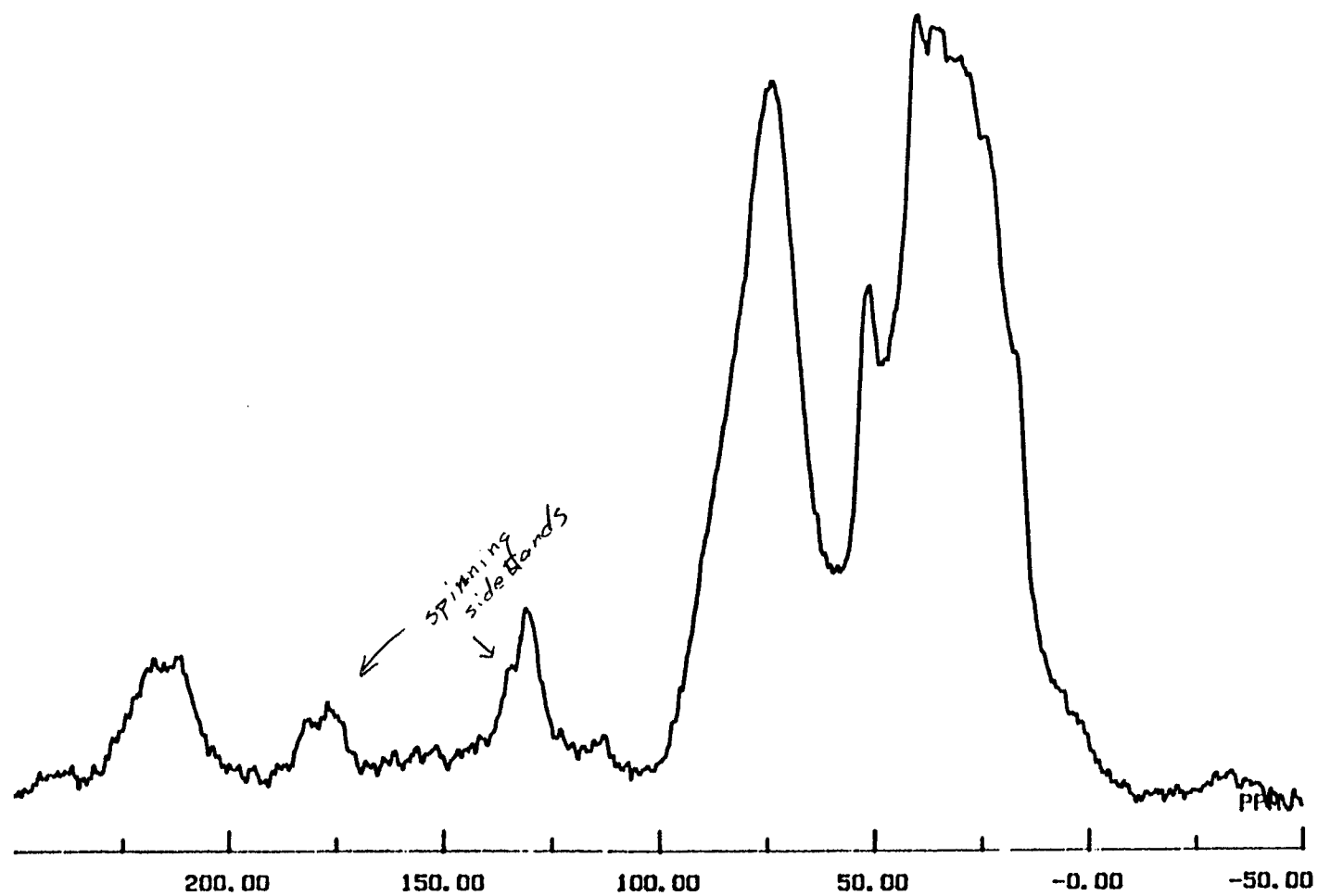




pp+

4

solid
in
KBr



CP/MAS ^{13}C NMR Spectrum of 4