

Current Data Parameters
NAME xia033d1
EXPNO 4
PROCNO 12004

F2 - Acquisition Parameters
Date 20040406
Time 13.43
INSTRUM spect
PROBHD 5 mm Dual T3
PULPROG dept135
TD 66596
SOLVENT CDCl3
NS 3368
DS 1
SWH 23148.148 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 16304
DW 21.600 usec
DE 4.50 usec
TE 299.0 K
P1 7.60 usec
DELTA 0.0000097 sec
D1 1.0000000 sec
D12 0.00002000 sec
PL1 -3.00 dB
P3 11.00 usec
SF02 400.1315005 MHz
NUC1 1H
D2 0.00367143 sec
P4 23.60 usec
SF01 100.8237984 MHz
NUC2 13C
PL1 -6.00 dB
P2 15.00 usec
PL12 16.00 dB
DE 4.50 usec
CPDPRG2 waltz16
PCPDQ2 106.00 usec

F2 - Processing parameters
SI 32768
SF 100.8127755 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
Cx 21.00 cm
F1 132.000 ppm
F1 13280.00 Hz
F2 104.000 ppm
F2 10483.73 Hz
FPWX 1.33233 ppm/cm
HZW 134.150.00 Hz/cm

Figura 126. Espectro de RMN DEPT 135 do 5-trifluormetil-1-fenil-3-[2-tienil]-1*H*-pirazol (**15b**) em CDCl_3 .

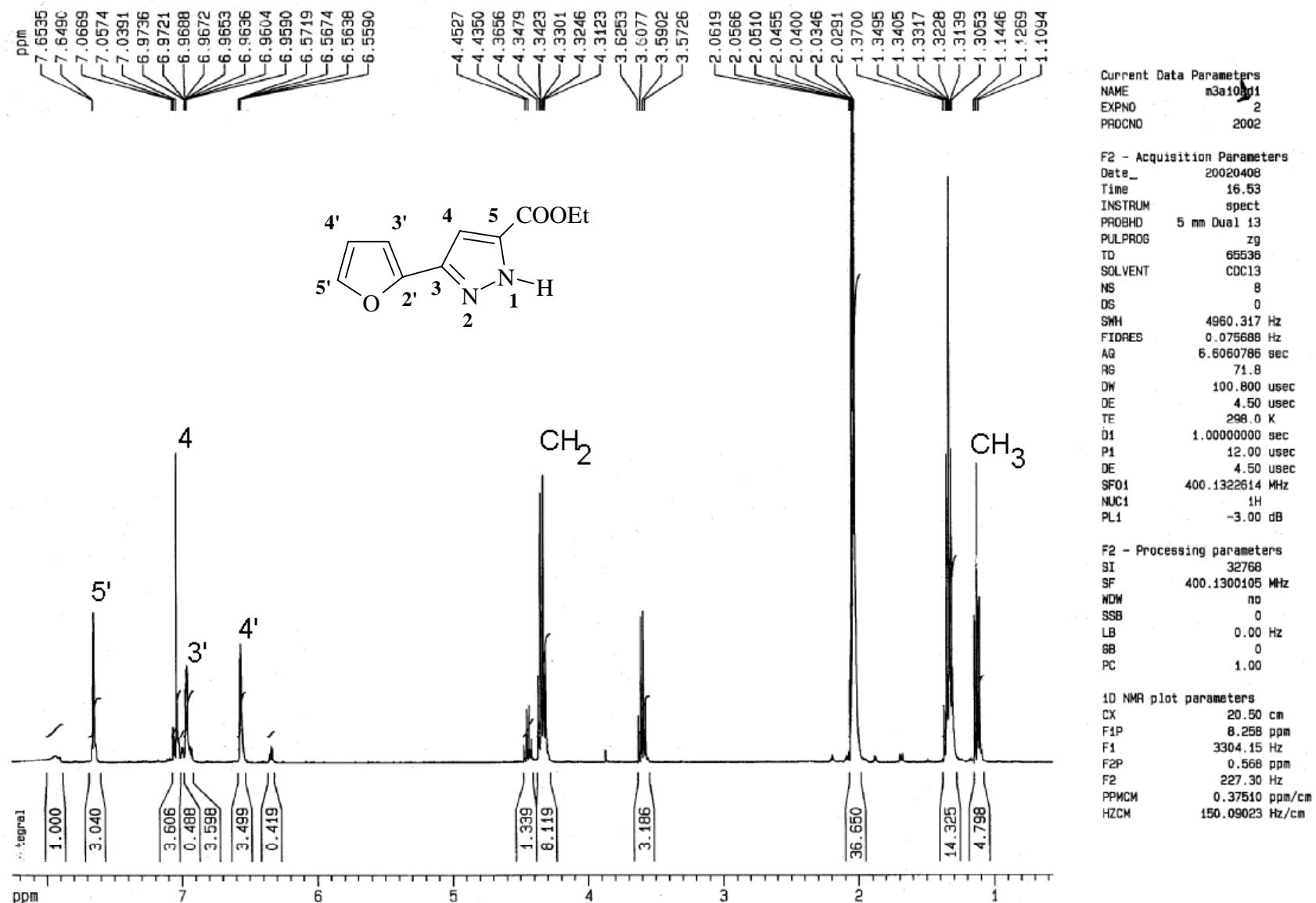


Figura 127. Espectro de RMN ^1H do 5-ethoxycarbonyl-3-[2-furyl]-1*H*-pirazol (**16a**) em DMSO.

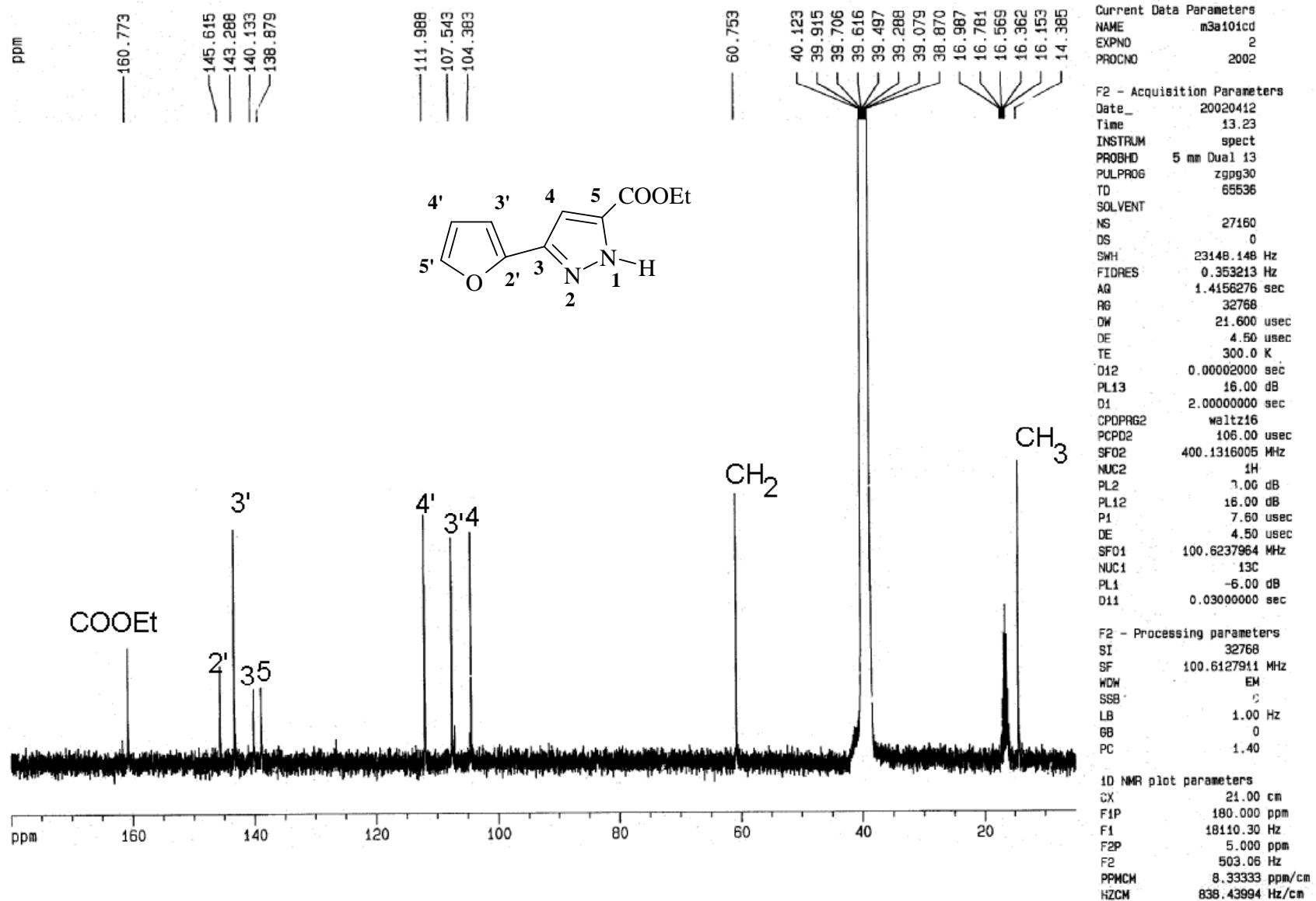


Figura 128. Espectro de RMN ^{13}C do 5-ethoxycarbonil-3-[2-furil]-1*H*-pirazol (**16a**) em DMSO.

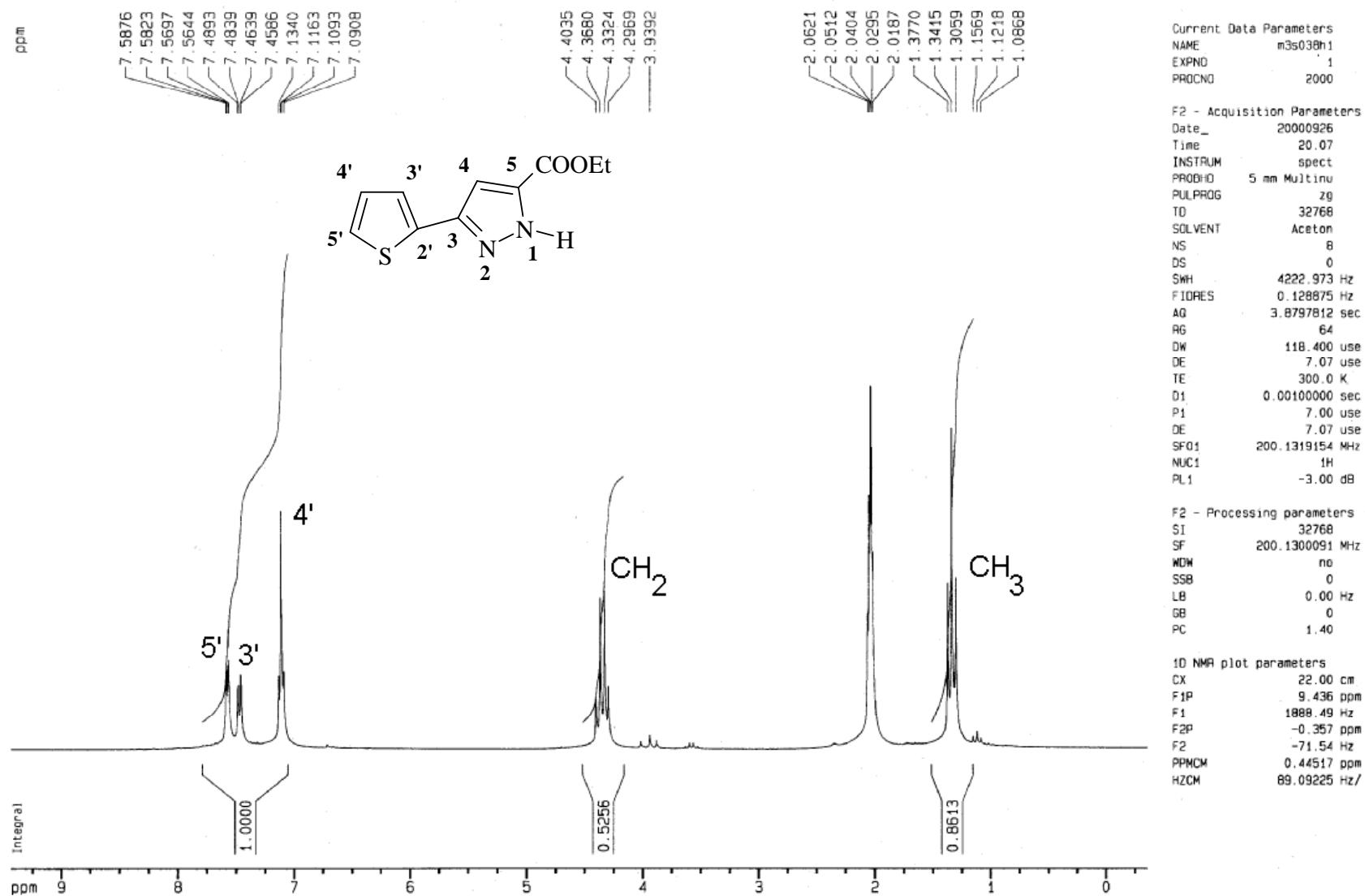


Figura 129. Espectro de RMN ^1H do 5-ethoxycarbonyl-3-[2-tienil]-1*H*-pirazol (**16b**) em acetona.

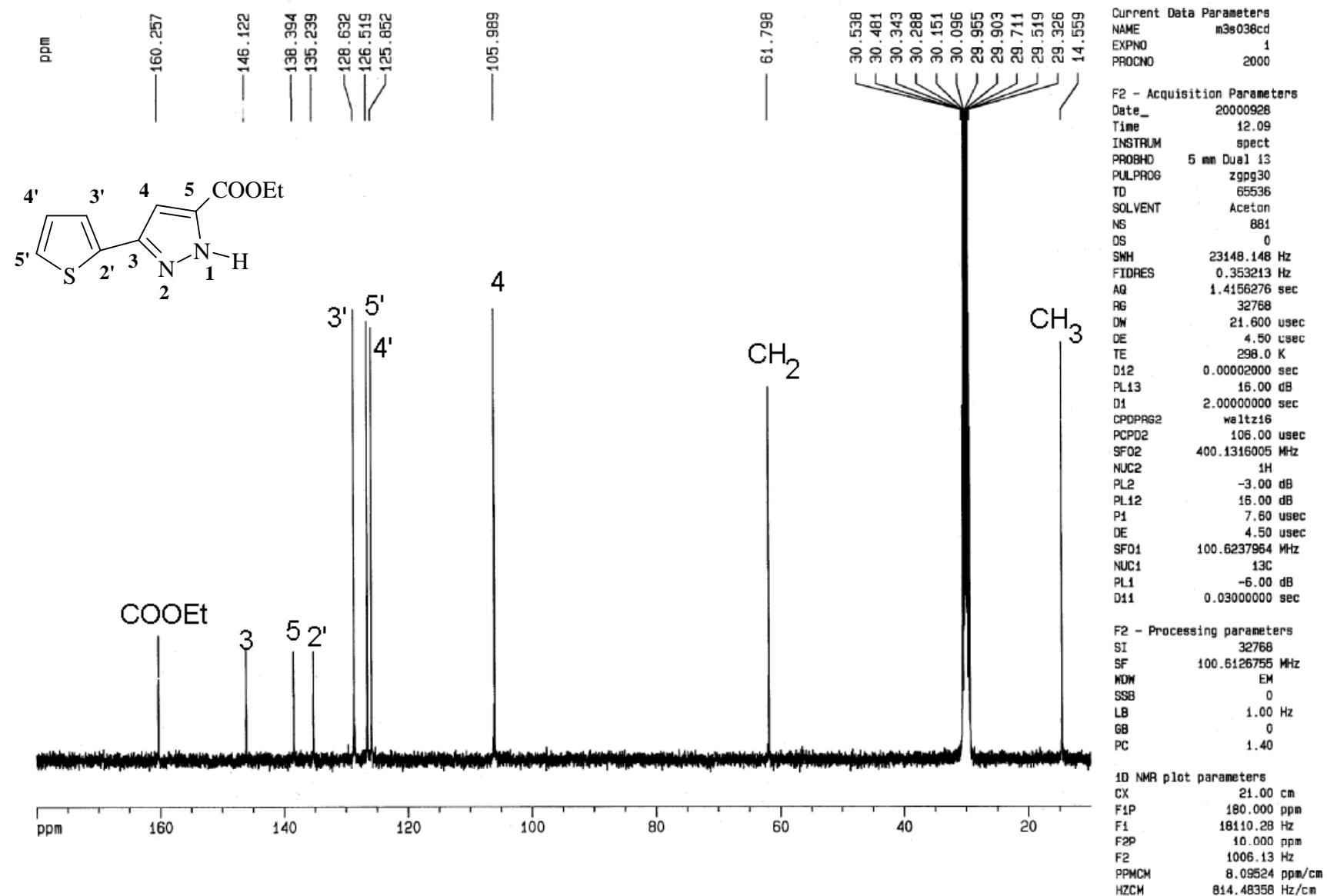


Figura 130. Espectro de RMN ¹³C do 5-ethoxycarbonil-3-[2-tienil]-1H-pirazol (**16b**) em acetona.

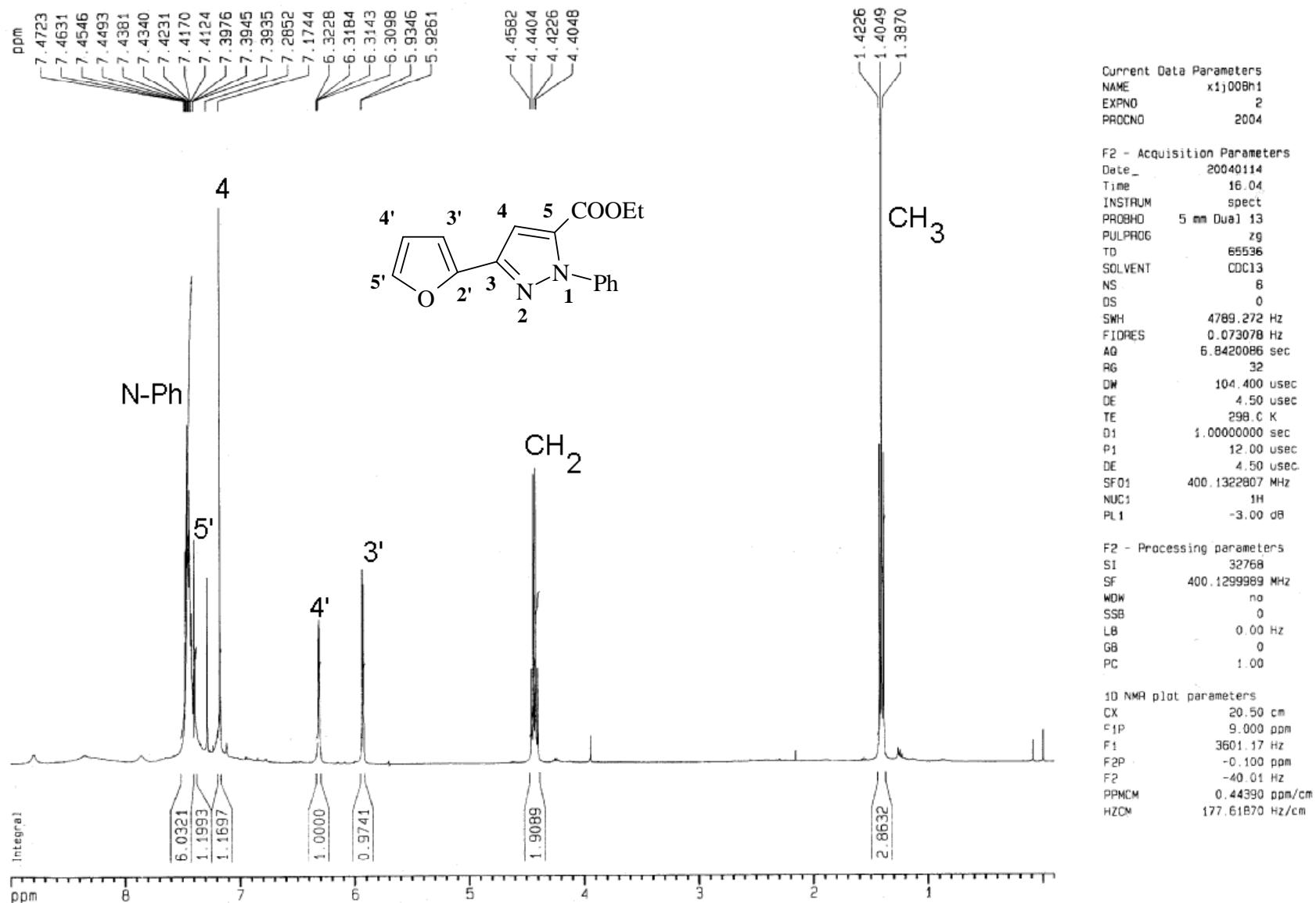


Figura 131. Espectro de RMN ^1H do 5-ethoxycarbonyl-1-phenyl-3-[2-furyl]-1*H*-pirazol (**17a**) em CDCl_3 .

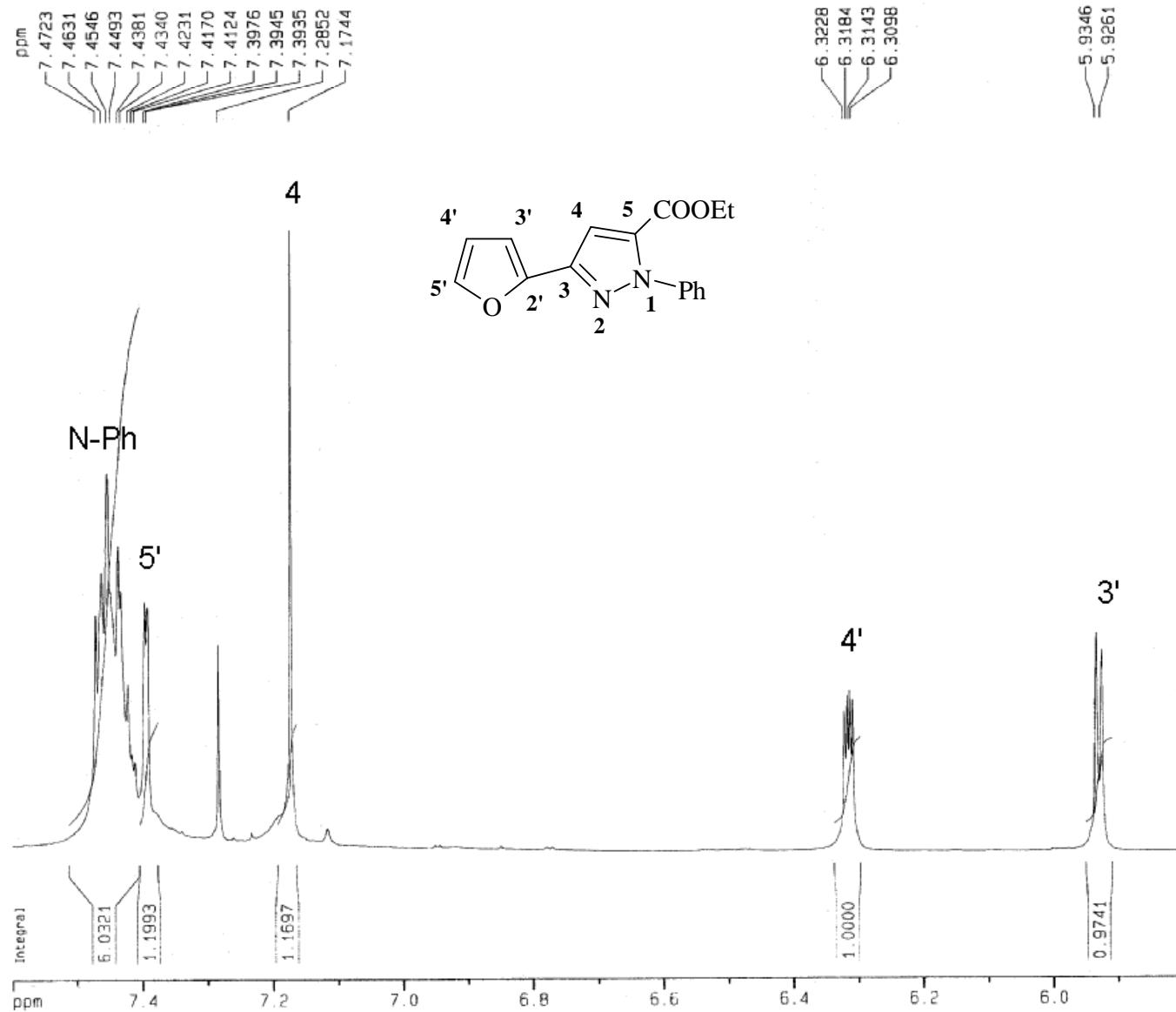


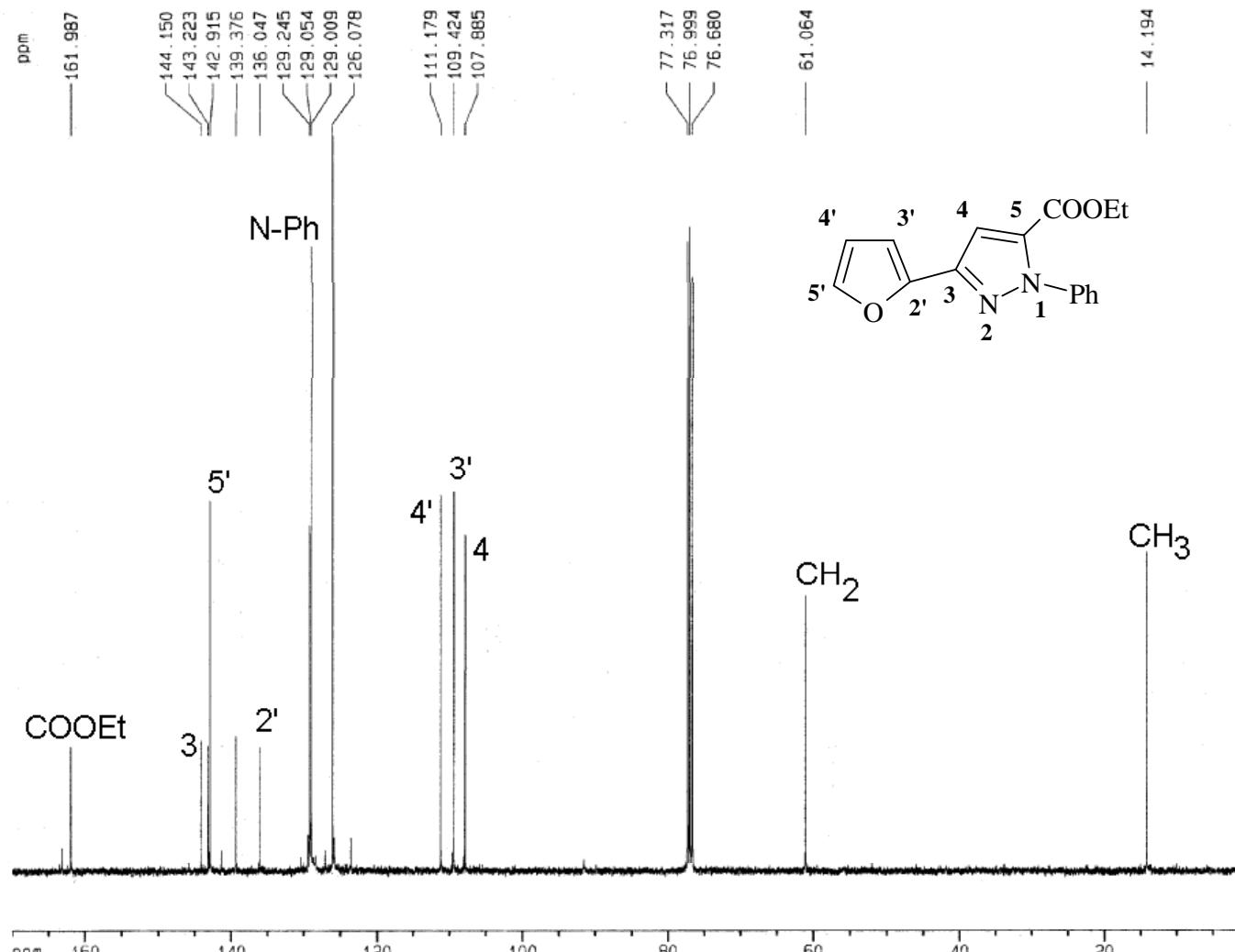
Figura 132. Espectro de RMN ^1H do 5-etoxicarbonil-1-fenil-3-[2-furil]-1*H*-pirazol (**17a**) em CDCl_3 .

Current Data Parameters
 NAME x1008hi
 EXPNO 2
 PROCNO 2004

F2 - Acquisition Parameters
 Date 20040114
 Time 16.04
 INSTRUM spect
 PROBHD 5 mm Dual 13
 PULPROG zg
 TO 65536
 SOLVENT CDCl3
 NS 8
 DS 0
 SWH 4789.272 Hz
 FIDRES 0.073078 Hz
 AQ 6.8420086 sec
 RG 32
 DW 104.400 usec
 DE 4.50 usec
 TE 298.0 K
 D1 1.0000000 sec
 P1 12.00 usec
 DE 4.50 usec
 SF01 400.1322807 MHz
 NUC1 1H
 PL1 -3.00 dB

F2 - Processing parameters
 SI 32768
 SF 400.1299989 MHz
 WDW no
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.50 cm
 F1P 7.600 ppm
 F1 3040.99 Hz
 F2P 5.800 ppm
 F2 2320.75 Hz
 PPNCM 0.08780 ppm/cm
 HZCM 35.13336 Hz/cm



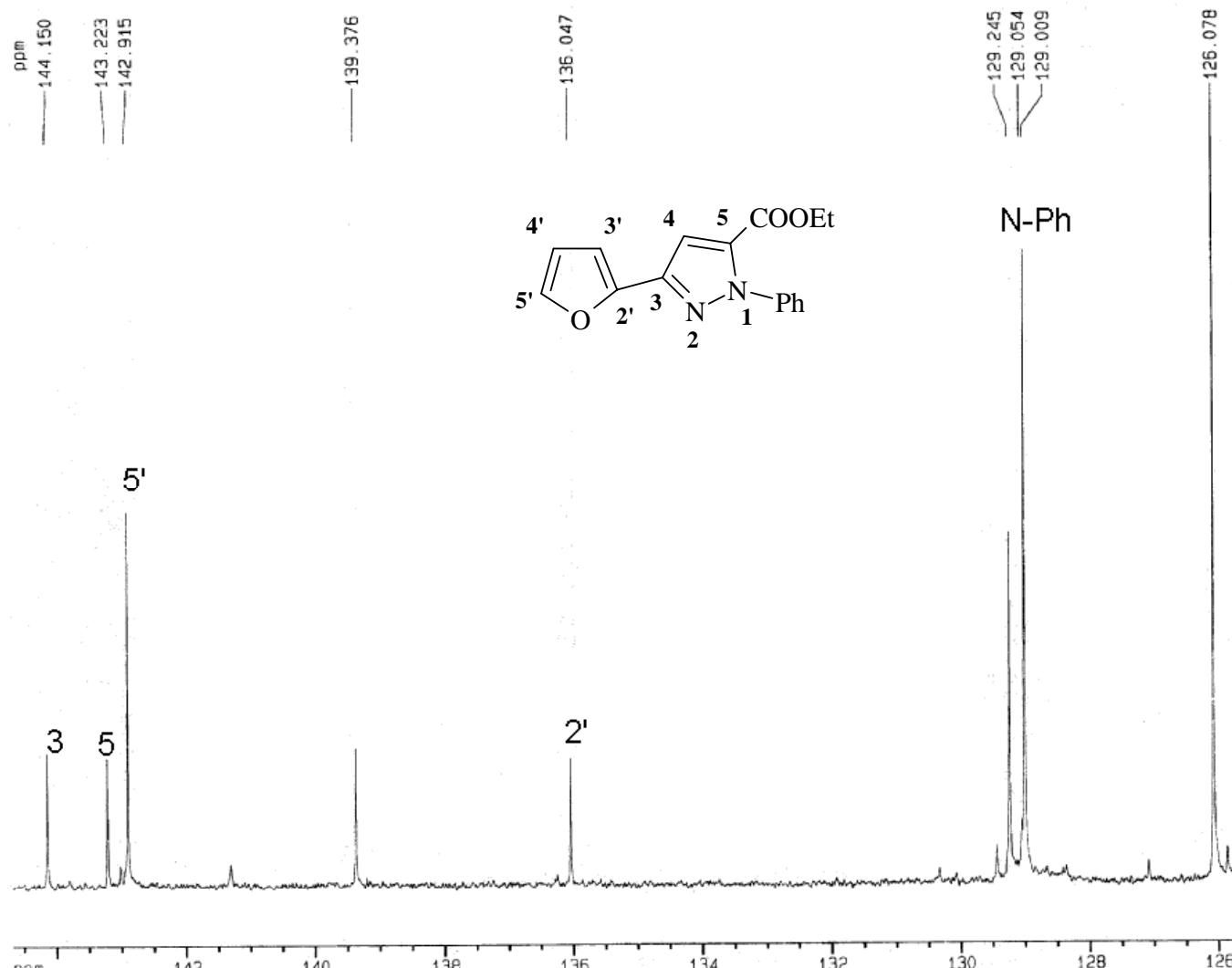
Current Data Parameters
NAME x1j008cd
EXPNO 2
PROCNO 2004

F2 - Acquisition Parameters
Date 20040114
Time 16.06
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 265
DS 0
SWH 23148.148 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 32768
DW 21.600 usec
DE 4.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 16.00 dB
D1 2.00000000 sec
CPDPG2 waltz16
PCPD2 106.00 usec
SF02 400.1316005 MHz
NUC2 1H
PL2 -3.00 dB
PL12 16.00 dB
P1 7.60 usec
DE 4.50 usec
SF01 100.6237964 MHz
NUC1 13C
PL1 -6.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 100.6127855 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 21.00 cm
F1P 170.000 ppm
F1 17104.17 Hz
F2P 1.000 ppm
F2 100.61 Hz
PPMCM 8.04762 ppm/cm
HZCM 809.69336 Hz/cm

Figura 133. Espectro de RMN ^{13}C do 5-ethoxycarbonil-1-fenil-3-[2-furil]-1H-pirazol (**17a**) em CDCl_3 .



Current Data Parameters
NAME xij008cd
EXPNO 2
PROCNO 2004

F2 - Acquisition Parameters
Date_ 20040114
Time 16.06
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 265
DS 0
SWH 23148.148 Hz
FIDRES 0.353213 Hz
AQ 1.4156276 sec
RG 32768
DW 21.600 usec
DE 4.50 usec
TE 300.0 K
D12 0.00002000 sec
PL13 16.00 dB
D1 2.00000000 sec
CPDPRG2 waltz16
PCP02 106.00 usec
SF02 400.1316005 MHz
NUC2 1H
PL2 -3.00 dB
PL12 16.00 dB
P1 7.60 usec
DE 4.50 usec
SF01 100.6237964 MHz
NUC1 13C
PL1 -6.00 dB
D11 0.03000000 sec

F2 - Processing parameters
SI 32768
SF 100.6127855 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 21.00 cm
F1P 144.584 ppm
F1 14557.06 Hz
F2P 125.418 ppm
F2 12618.68 Hz
PPMCM 0.91743 ppm/cm
HZCM 92.30471 Hz/cm

Figura 134. Espectro de RMN ^{13}C do 5-etoxicarbonil-1-fenil-3-[2-furil]-1*H*-pirazol (**17a**) em CDCl_3 .

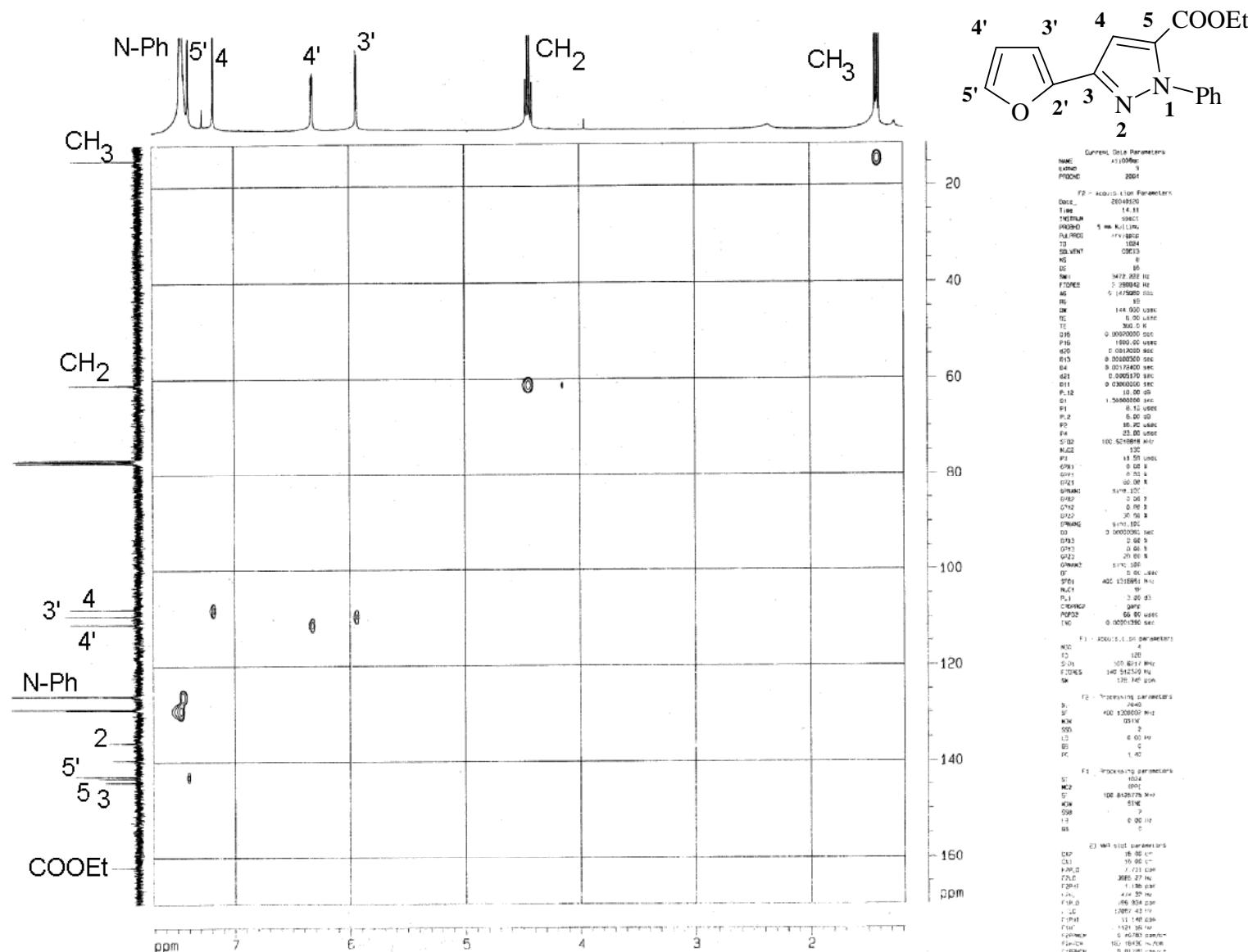


Figura 135. Espectro de RMN HMQC do 5-etoxicarbonil-1-fenil-3-[2-furil]-1*H*-pirazol (**17a**) em CDCl₃.

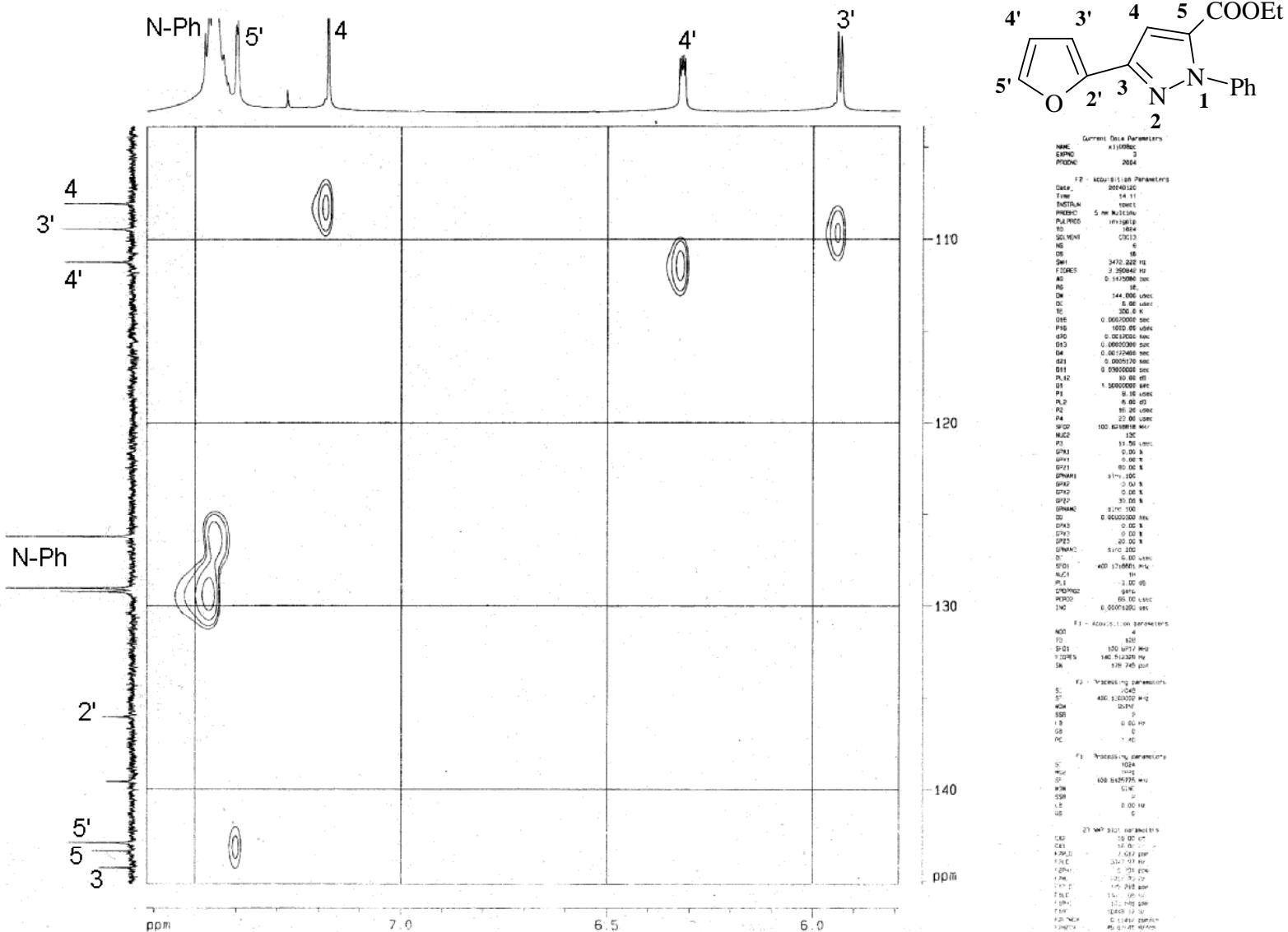


Figura 136. Espectro de RMN HMQC do 5-etoxicarbonil-1-fenil-3-[2-furil]-1*H*-pirazol (**17a**) em CDCl₃.

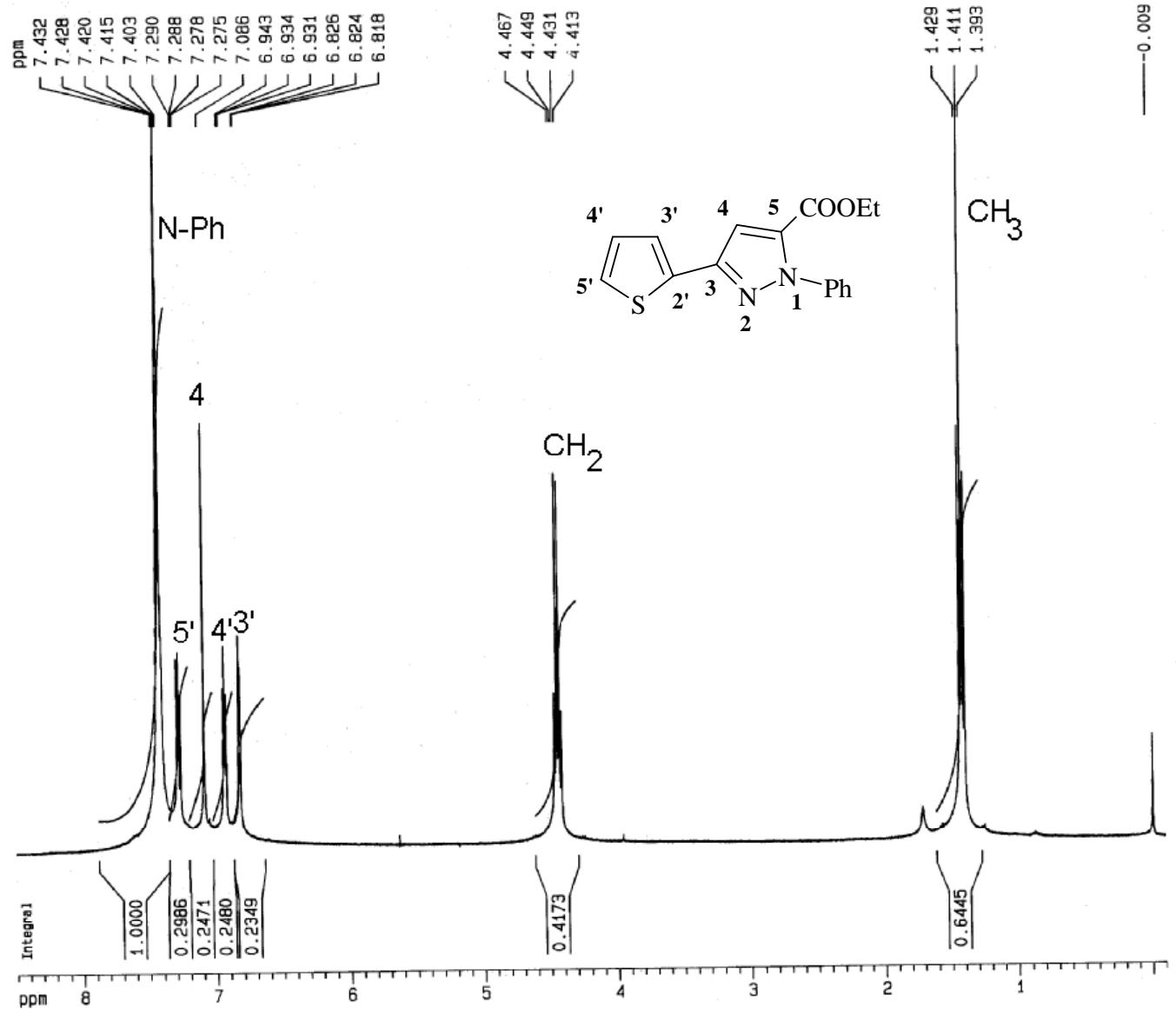
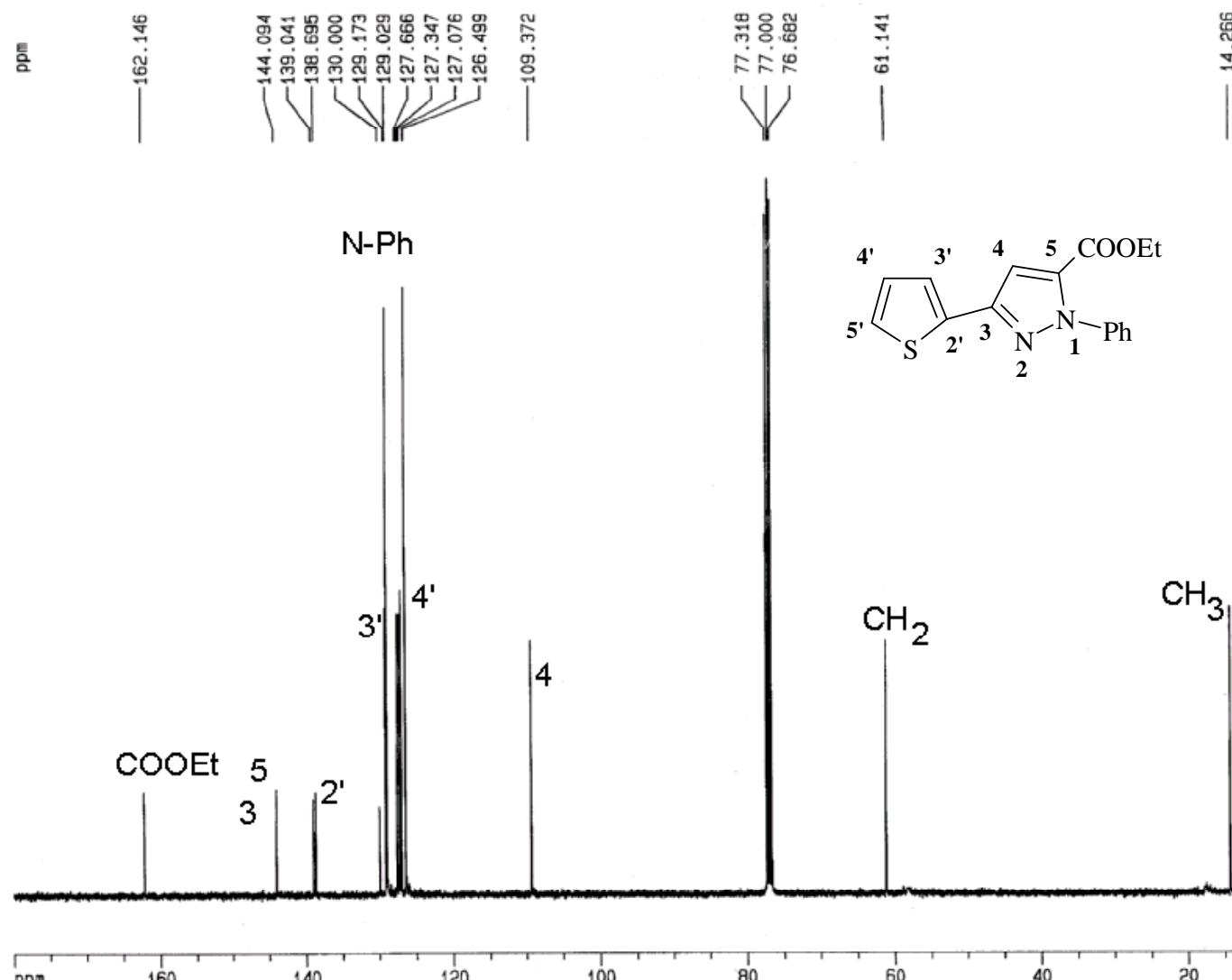


Figura 137. Espectro de RMN ¹H do 5-ethoxycarbonyl-1-fenil-3-[2-tienil]-1H-pirazol (**17b**) em CDCl₃.



Current Data Parameters

NAME	m3o42cd
EXPNO	1
PROCNO	2000

F2 - Acquisition Parameters

Date_	20001018
Time	13.51
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	zgpg30
TD	65536
SOLVENT	CDCl ₃
NS	1150
DS	0
SWH	23148.148 Hz
FIDRES	0.353213 Hz
AQ	1.4156276 sec
RG	32768
DW	21.600 usec
DE	4.50 usec
TE	298.0 K
D12	0.00002000 sec
PL13	16.00 dB
D1	2.00000000 sec
CPDPRG2	waltz16
PCPD2	106.00 usec
SFO2	400.1316005 MHz
NUC2	1H
PL2	-3.00 dB
PL12	16.00 dB
P1	7.60 usec
DE	4.50 usec
SF01	100.6237964 MHz
NUC1	13C
PL1	-6.00 dB
D11	0.03000000 sec

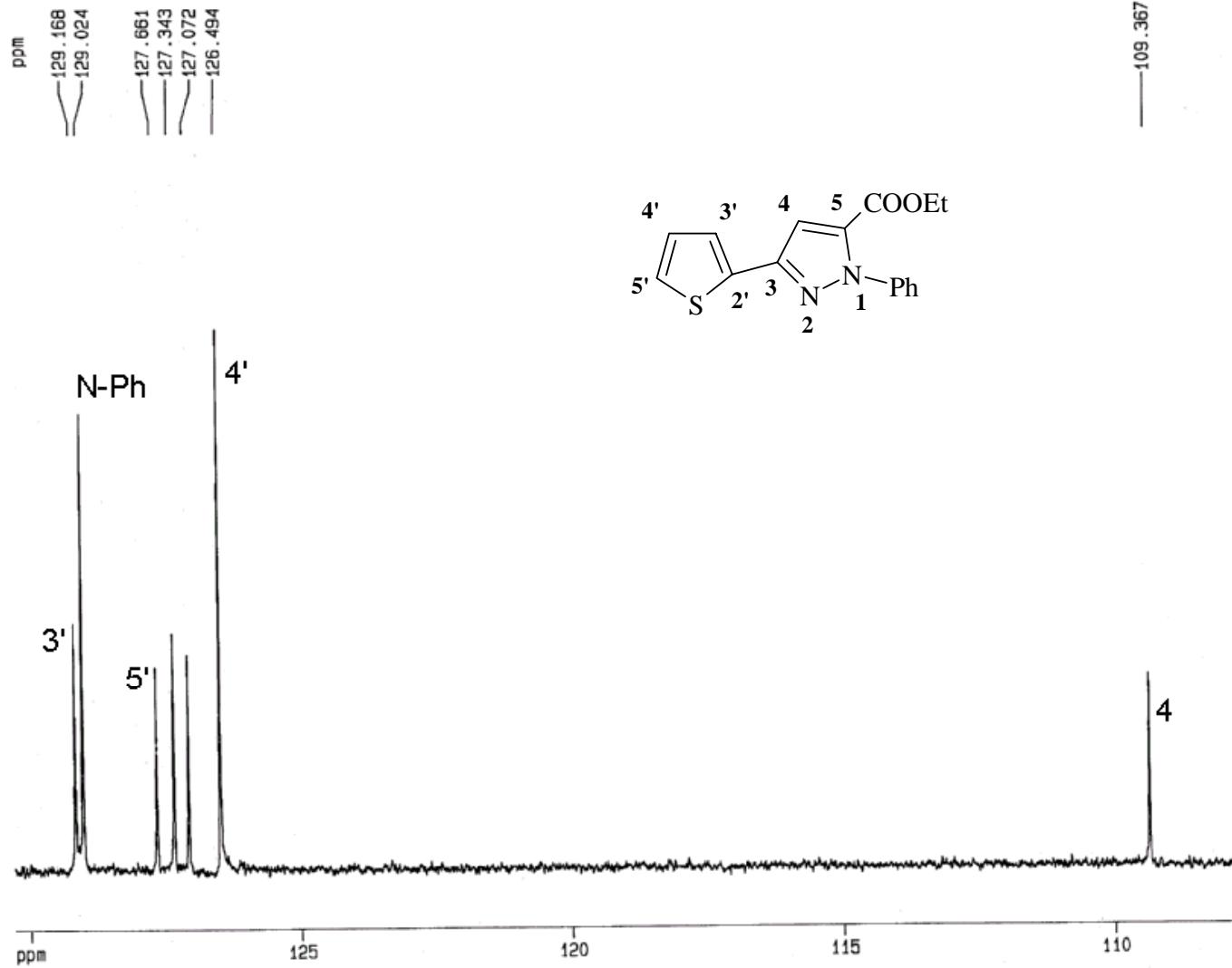
F2 - Processing parameters

SI	32768
SF	100.612778 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	15.00 cm
F1P	180.000 ppm
F1	18110.30 Hz
F2P	10.000 ppm
F2	1006.13 Hz
PPMCM	8.09524 ppm/cm
HZCM	814.48437 Hz/cm

Figura 138. Espectro de RMN ¹³C do 5-ethoxycarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**17b**) em CDCl₃.



Current Data Parameters

NAME	m3o42d1
EXPNO	1
PROCNO	2000

F2 - Acquisition Parameters

Date_	20001018
Time	15.06
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	dept135
TD	65536
SOLVENT	CDCl ₃
NS	490
DS	1
SWH	23148.148 Hz
FINRES	0.353213 Hz
AQ	1.4156278 sec
RG	16384
DW	21.600 usec
DE	4.50 usec
TE	298.0 K
P1	7.60 usec
DELTA	0.0000097 sec
D1	1.0000000 sec
D12	0.00002000 sec
PL2	-3.00 dB
P3	11.80 usec
SP02	400.1316005 MHz
NUC2	1H
D2	0.00357143 sec
P4	23.60 usec
SP01	100.6237954 MHz
NUC1	13C
PL1	-6.00 dB
P2	15.20 usec
PL12	16.00 dB
DE	4.50 usec
CPDPRG2	Waltz16
PCP02	106.00 usec

F2 - Processing parameters

SI	32768
SF	100.6127783 MHz
MW0	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	21.00 cm
F1P	130.293 ppm
F1	13109.13 Hz
F2P	107.738 ppm
F2	10839.85 Hz
PPMCH	1.07403 ppm/cm
HZCM	108.06091 Hz/cm

Figura 139. Espectro de RMN Dept 135, do 5-ethoxycarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**17b**) em CDCl₃.

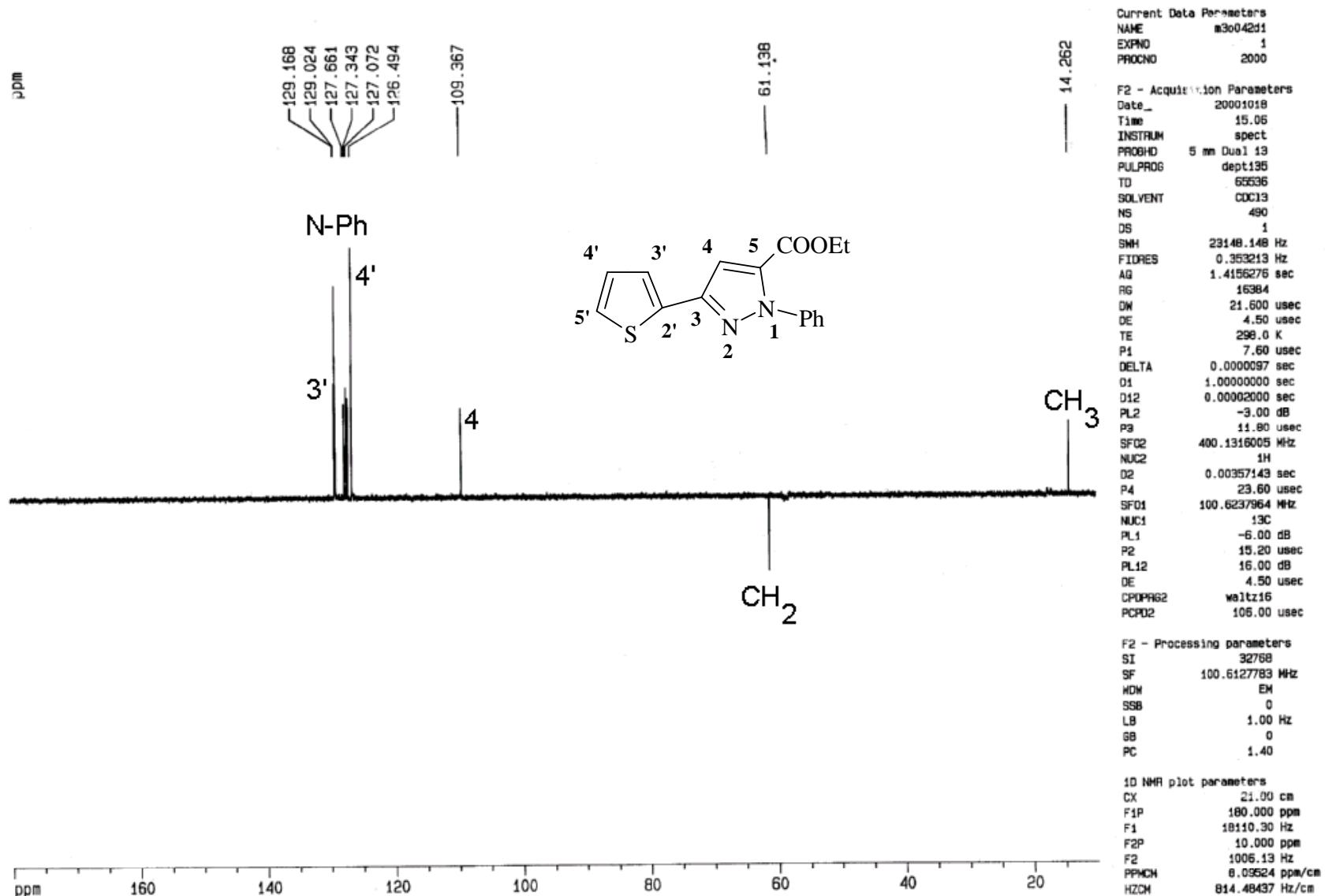


Figura 140. Espectro de RMN (DEPT 135), do 5-ethoxycarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**17b**) em CDCl₃.

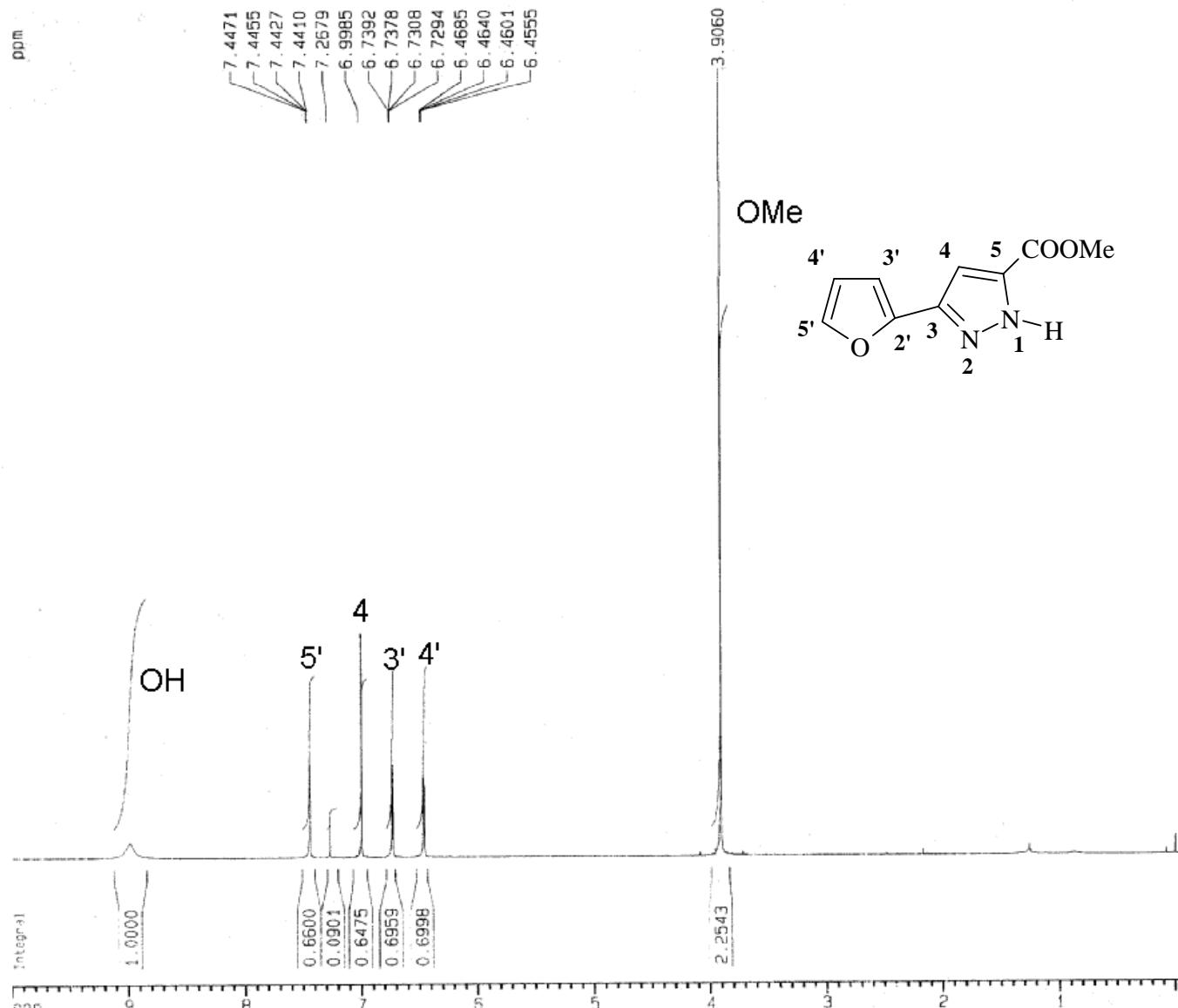


Figura 141. Espectro de RMN ^1H do 5-metoxicarbonil-3-[2-furil]-1H-pirazol (**18a**) em CDCl_3 .

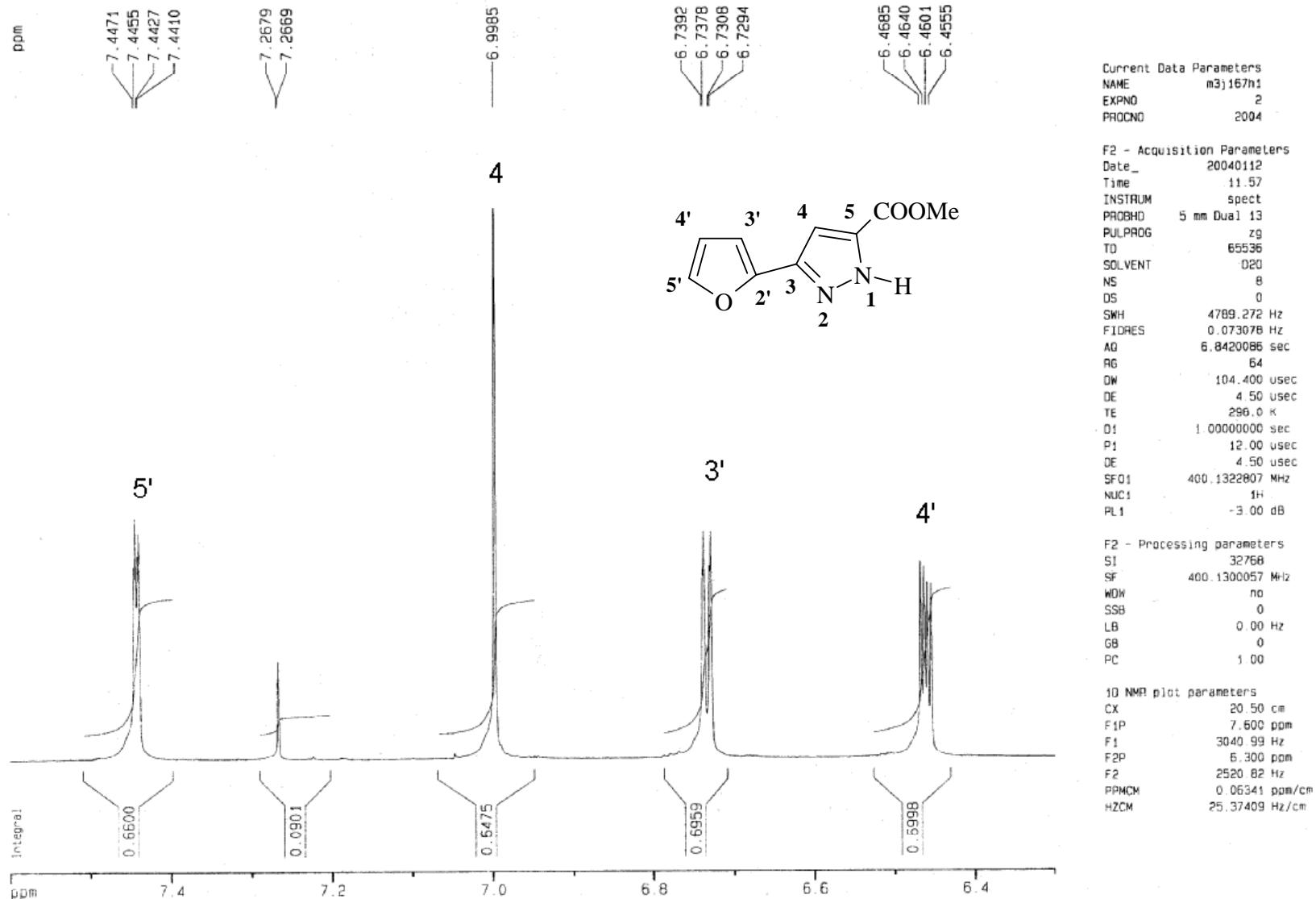


Figura 142. Espectro de RMN ^1H do 5-metoxicarbonil-3-[2-furil]-1*H*-pirazol (**18a**) em CDCl_3 .

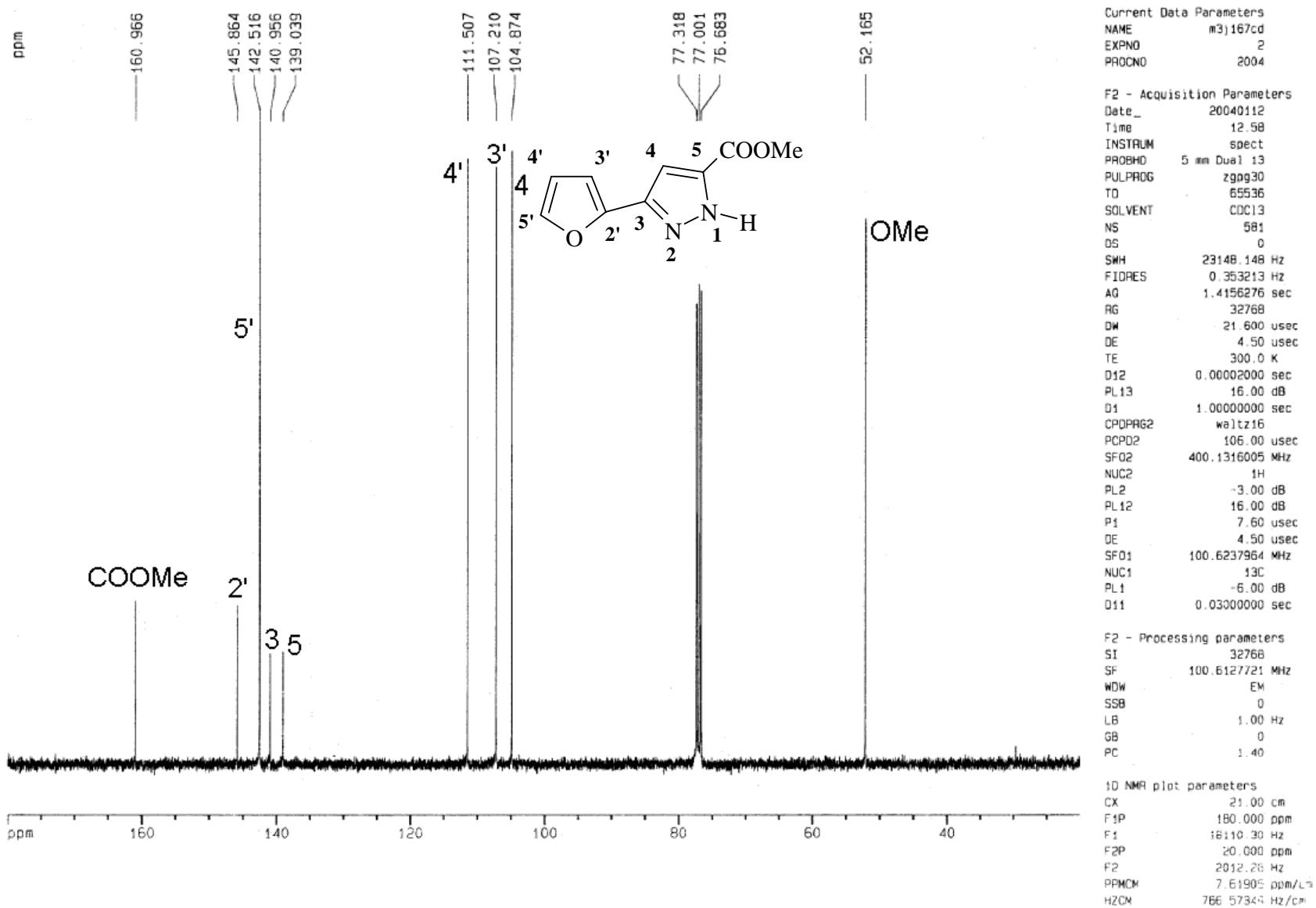


Figura 143. Espectro de RMN ¹³C do 5-metoxicarbonil-3-[2-furil]-1H-pirazol (**18a**) em CDCl₃.

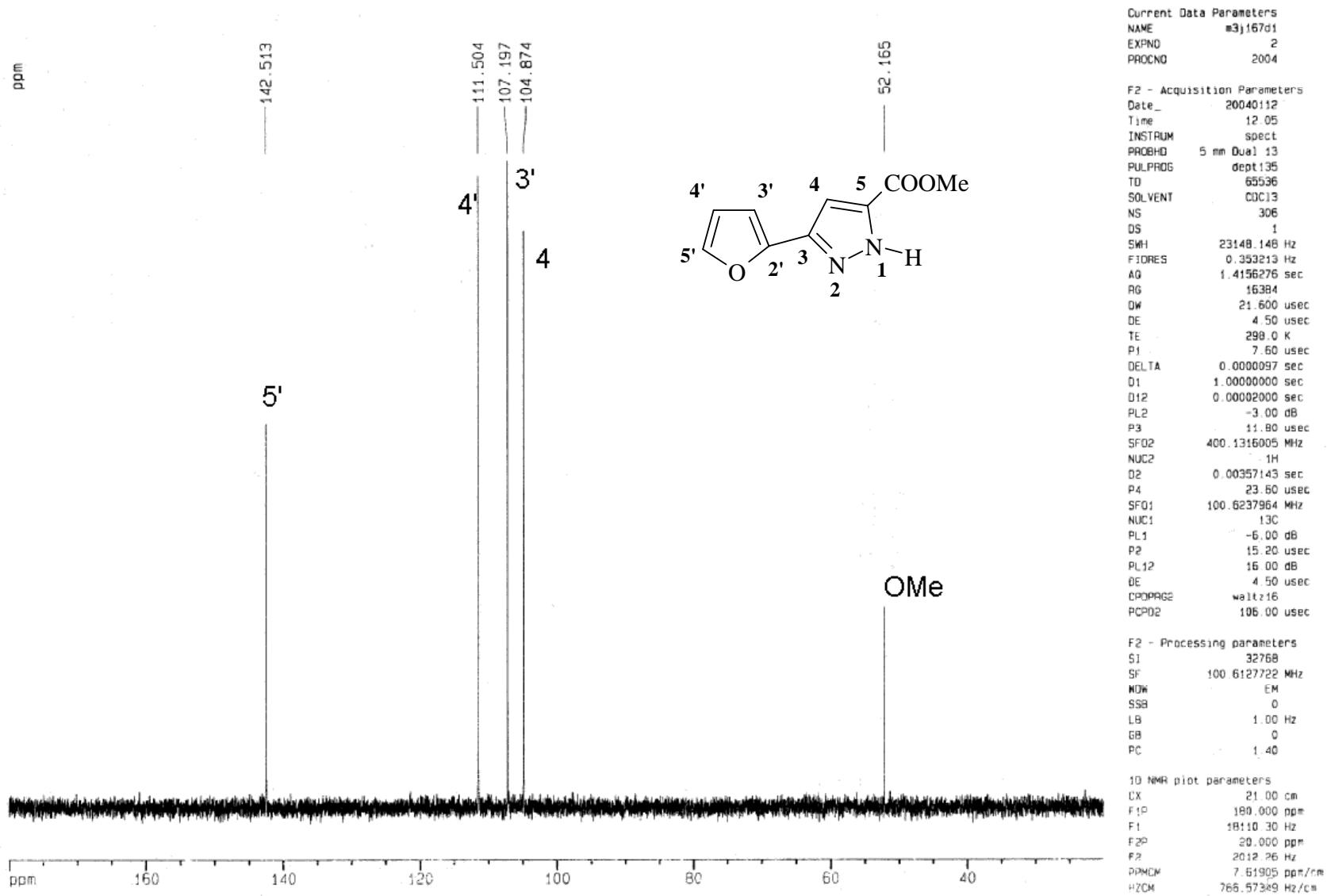


Figura 144. Espectro de RMN (DEPT 135) do 5-metoxicarbonil-3-[2-furil]-1*H*-pirazol (**18a**) em CDCl₃.

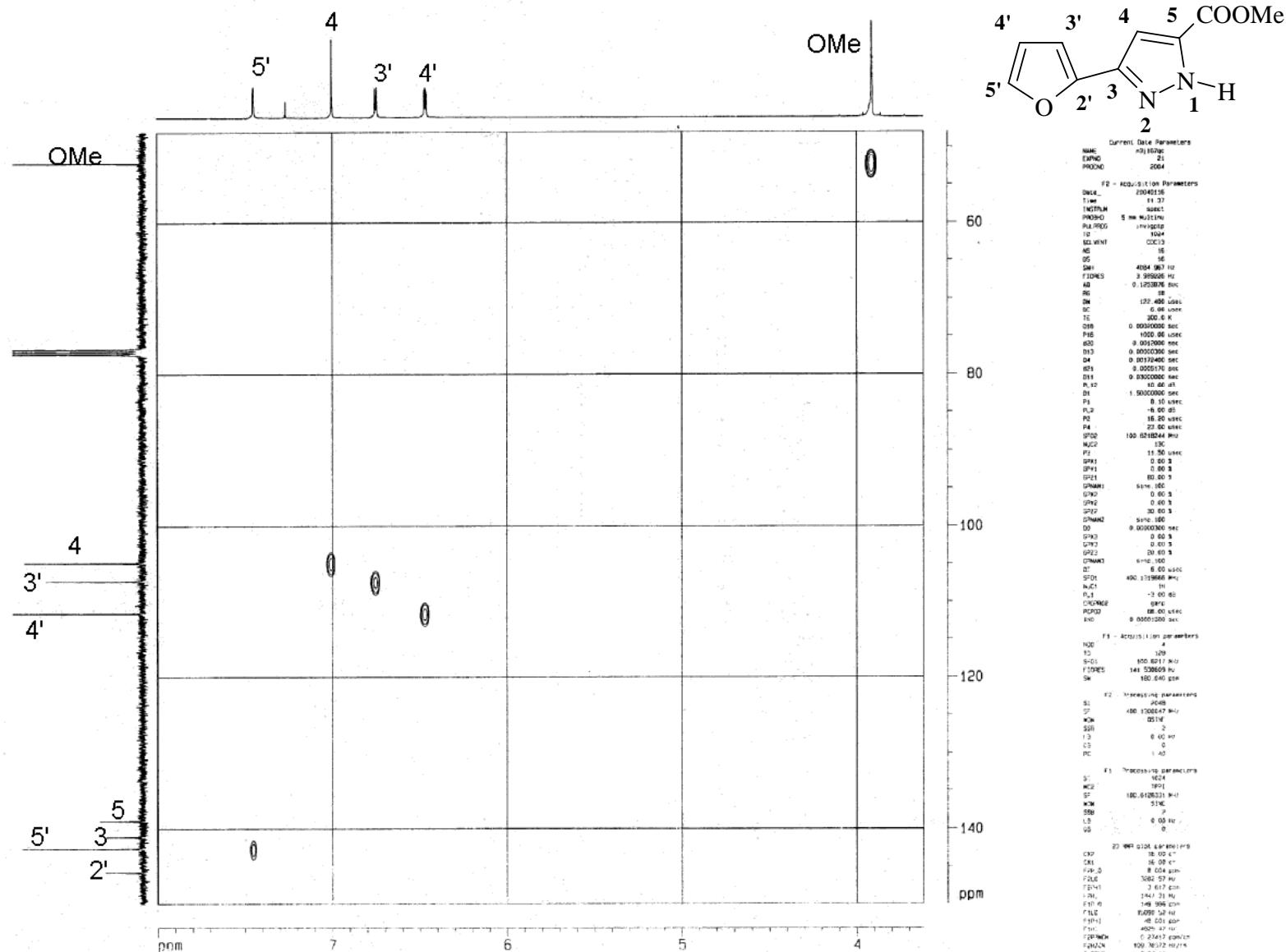


Figura 145. Espectro de RMN HMQC do 5-metoxicarbonil-3-[2-furil]-1*H*-pirazol (**18a**) em CDCl₃.