

Terms & Conditions

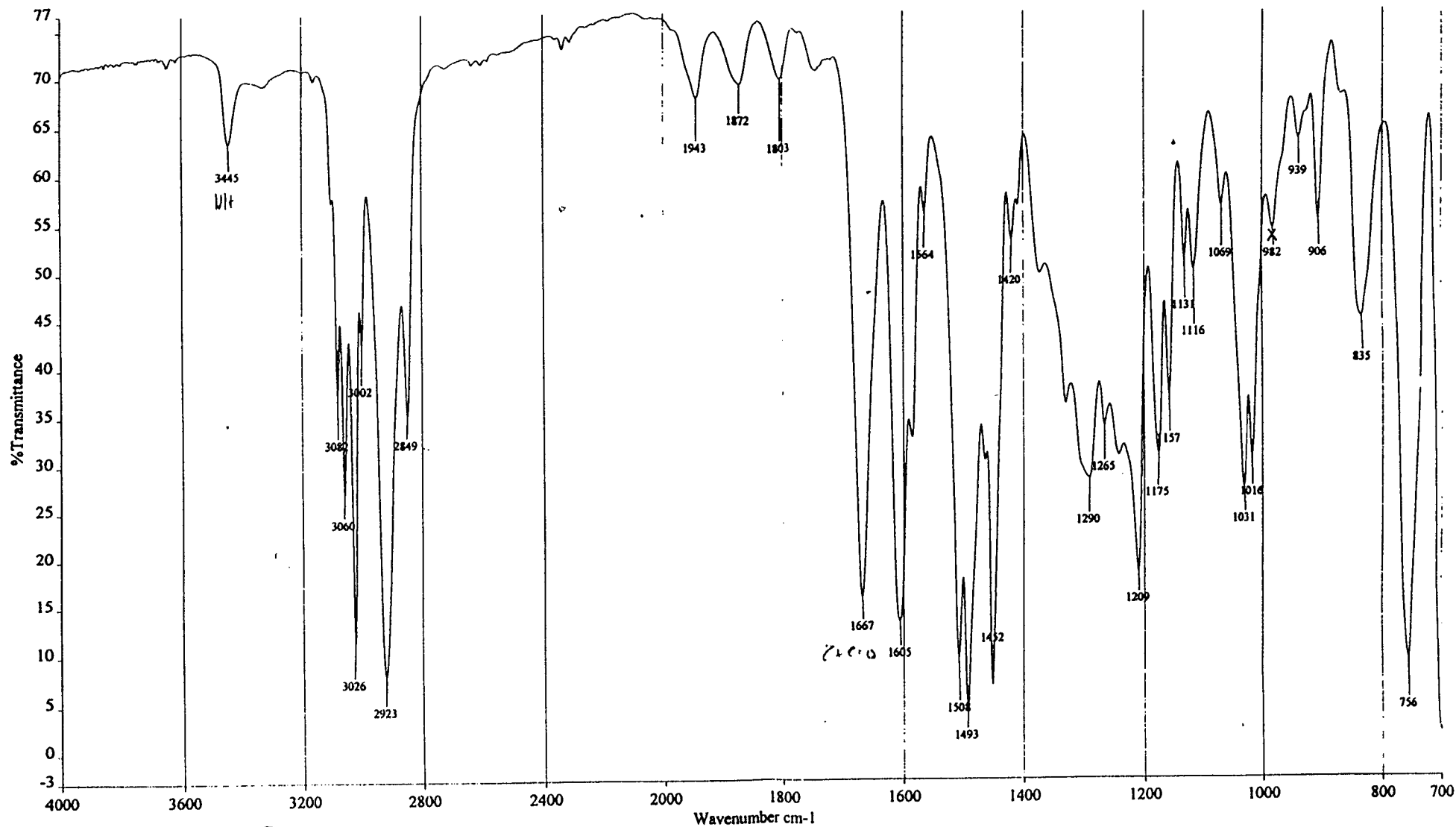
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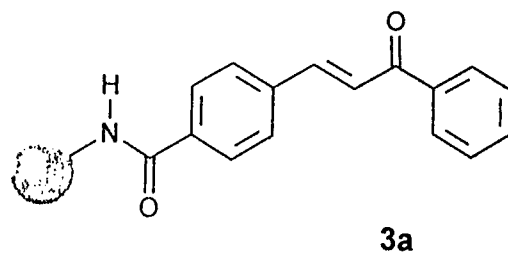


SINGLE BEAD

Spektrum-Nr.: 015340

Auftrag: Dr. Marzinzik

Probe:
(Bead mit ca 3 t flachgequetscht)



Datum:

Aufnahmetechnik: Mikroskop
(Transmission)

Operator: Bg

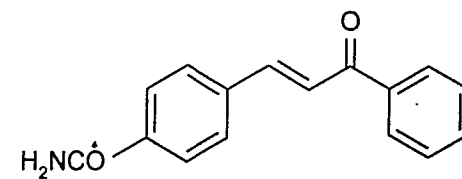
Auflösung: 4 cm⁻¹

Spiegelgeschwindigkeit: 2 cm/sec

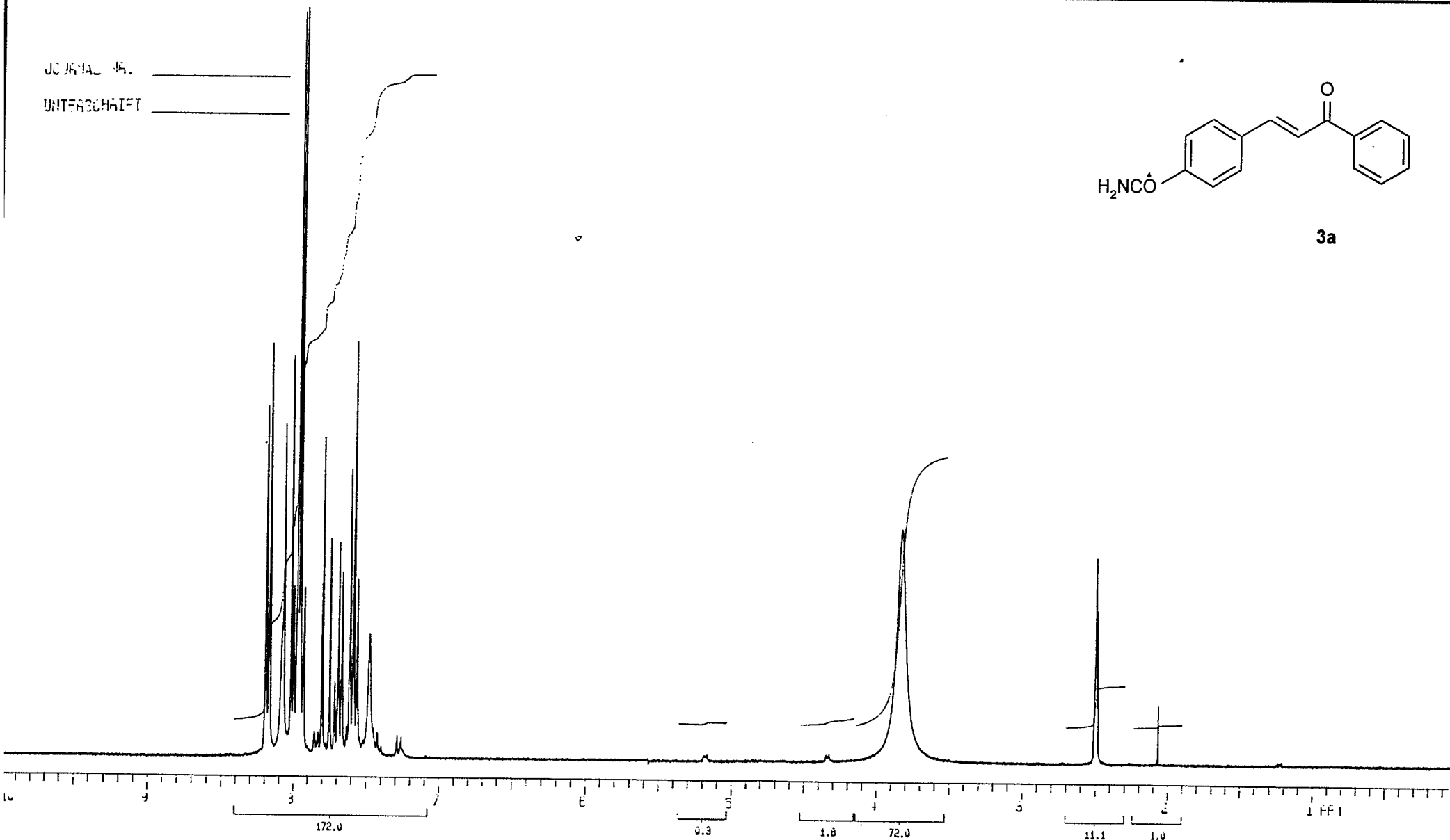
Anzahl Messläufe: 500

JOURNAL NR. _____

UNTERSCHRIFT _____



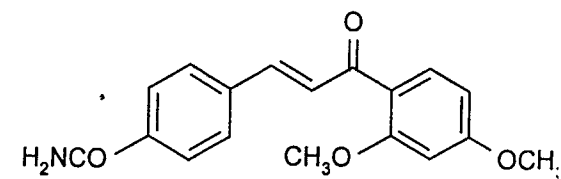
3a



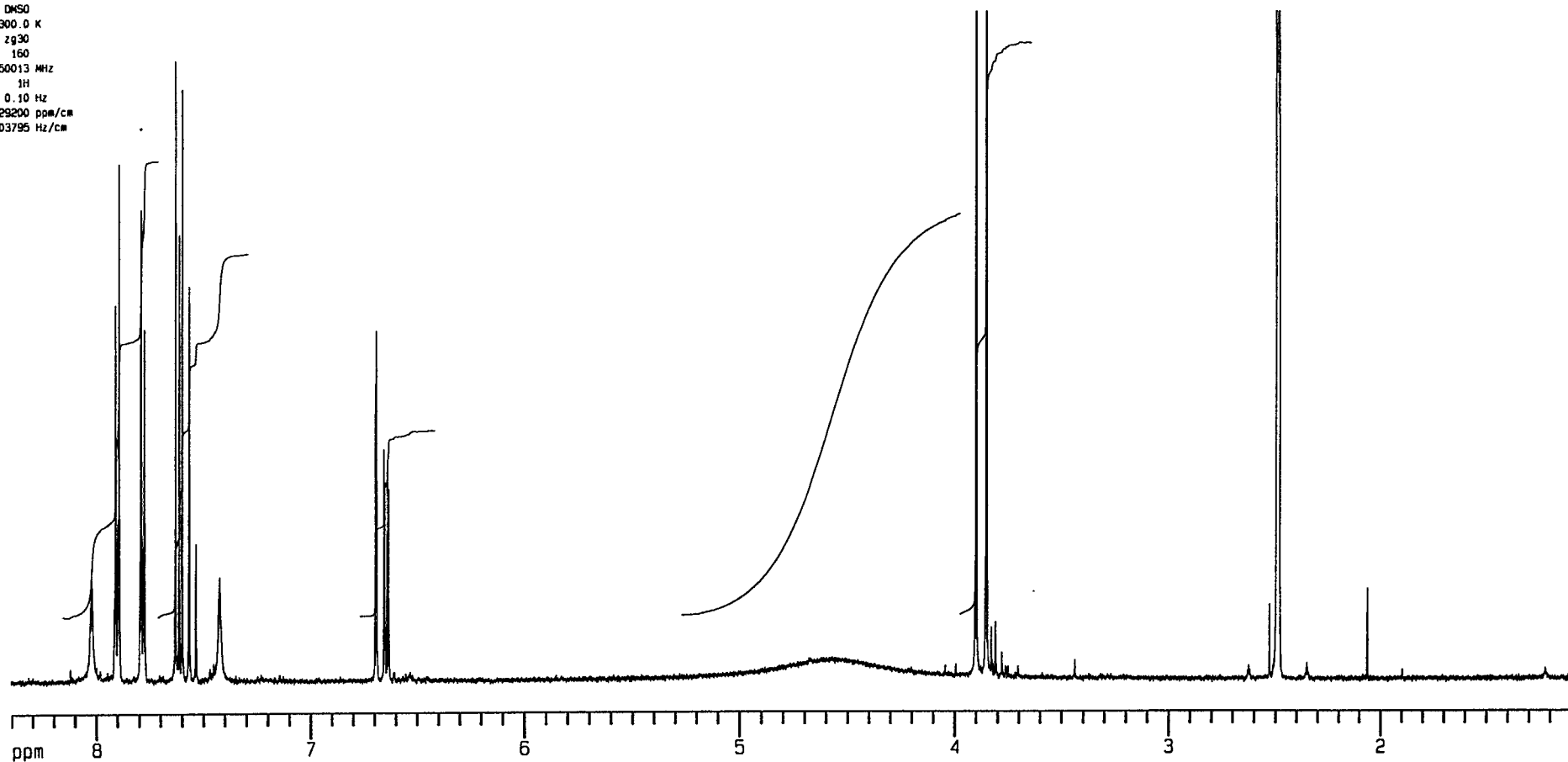
Nucleus 1.000 Freq 300 MHz Spec. Width 4500.5 Hz Acq. Time 1.375 sec Pulse Width 5.0 µsec		Nucleus 1.000 Offset -450.0 Hz Mode WID Modulation: Mode Pulse Width µsec		Plot/Processing FN 32 K RE --- sec CD --- sec LB --- Hz AF --- sec CCD --- Width d(CO) Hz/ppm Start --- Hz/ppm Reference		Experiment Pulse Sequence 22P RL Tube O.D. mm Temp --- °C Solvent CDCl ₃		Sample AM107/3 'EF-d91' III		Number File Date XL	
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605486

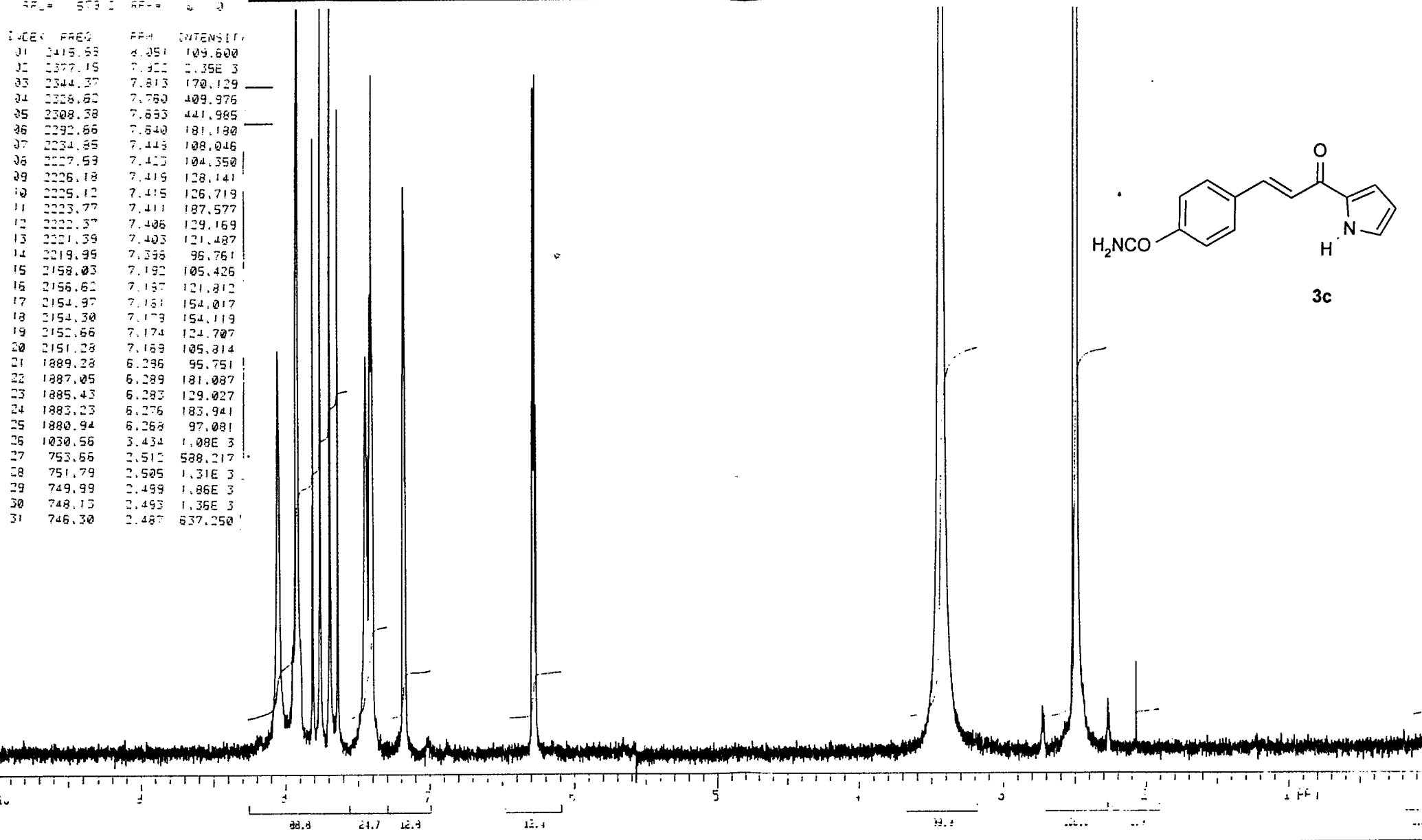
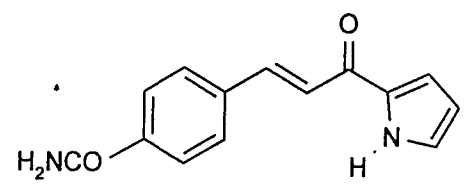
PH2.271 COM/BT/BS/CT

**3b**

Current Data Parameters
NAME
EXPNO 1
PROCNO 1
Date_ 970325
INSTRUM dx500
PROBHD BB125mm
NUC1 1H
SF01 500.1350013 MHz
SOLVENT DMSO
TE 300.0 K
PULPROG zg30
NS 160
SF01 500.1350013 MHz
NUC1 1H
LB 0.10 Hz
PPMCM 0.29200 ppm/cm
HZCM 146.03795 Hz/cm



INDEX	FREQ	PPM	INTENSIT
01	2415.55	8.051	109.600
02	2377.15	7.922	1.35E 3
03	2344.37	7.813	170.129
04	2336.62	7.760	409.976
05	2308.58	7.653	441.985
06	2292.66	7.640	181.180
07	2234.85	7.449	108.046
08	2227.53	7.423	104.350
09	2226.18	7.419	128.141
10	2225.12	7.415	126.719
11	2223.77	7.411	187.577
12	2222.37	7.406	129.169
13	2221.39	7.403	121.487
14	2219.95	7.396	96.761
15	2158.03	7.192	105.426
16	2156.62	7.187	121.812
17	2154.97	7.181	154.017
18	2154.30	7.179	154.119
19	2152.66	7.174	124.707
20	2151.28	7.169	105.814
21	1889.28	6.296	95.751
22	1887.05	6.289	181.087
23	1885.43	6.283	129.027
24	1883.23	6.276	183.941
25	1880.94	6.268	97.081
26	1030.56	3.434	1.08E 3
27	753.66	2.512	588.217
28	751.79	2.505	1.31E 3
29	749.99	2.499	1.86E 3
30	748.13	2.493	1.36E 3
31	746.30	2.487	637.250



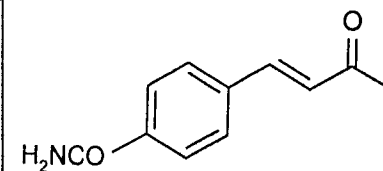
OBSERVE Nucleus <u>1.000</u> Spec. Width <u>4500.5</u> Hz Acq. Time <u>1.398</u> sec Pulse Width <u>5.4</u> μsec	Freq. <u>300</u> MHz Offset <u>0</u> Hz Delay <u>0</u> sec Transients <u>64</u>	DECOUPLE Nucleus <u>1.000</u> Mode <u>NNH</u> Modulation: Mode <u>G</u> Pulse Width <u> </u> μsec	Offset <u>-450.0</u> Hz Power <u>20.0</u> db Freq. <u>10000</u> Hz Power Mode <u>11.0</u>	PLOT/PROCESSING FN <u>32</u> K RE <u> </u> sec CD <u> </u> sec LB <u> </u> Hz AF <u> </u> sec CCD <u> </u> sec Width <u>3000.3</u> Hz/ppm Start <u>0</u> Hz/ppm Reference <u> </u>	EXPERIMENT Pulse Sequence <u>22PIL</u> Tube O.D. <u> </u> mm Temp. <u> </u> °C Solvent <u>CDCl3</u>	SAMPLE Name <u> </u> Concentration <u> </u>	Number <u> </u> File <u>4</u> Date <u>12/30/82</u> XL <u>1E+300</u>
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JOURNAL NR. _____

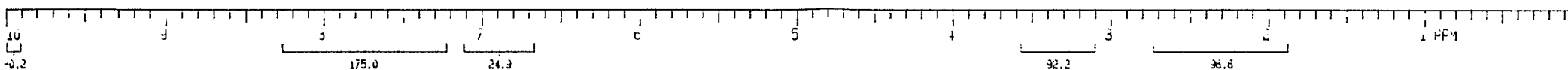
UNTERSCHRIFT _____

SPECTRAL LINES FOR TH= 33.41
RFL= 579.0 RFP= 0

INDEX	FREQ	PPM	INTENSITY
01	2414.17	8.045	33.531
02	2378.25	7.926	105.623
03	2369.76	7.897	174.225
04	2341.16	7.902	162.197
05	2332.92	7.774	103.525
06	2304.03	7.678	72.334
07	2287.60	7.623	84.047
08	2076.47	6.920	120.326
09	2060.08	6.865	104.339
10	1004.46	3.347	687.532
11	751.86	2.506	38.763
12	750.00	2.499	54.233
13	748.16	2.493	39.147
14	705.10	2.350	817.939
15	621.71	2.072	130.170



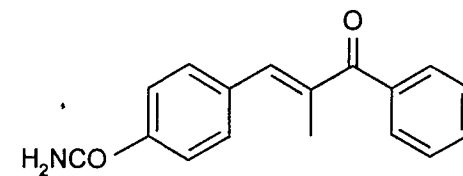
3d



OBSERVE	Nucleus	1.000	Freq.	300 MHz	DECOUPLE	Nucleus	1.000	Offset	-150.0 Hz	PLOT/PROCESSING	FN	32	K	RE	---	sec	CD	---	sec	EXPERIMENT	Pulse Sequence	32PPL	SAMPLE	Number	---
	Spec. Width	4500.3 Hz	Offset	0 Hz		Mode	4H4	Power	20.0 db		LB	---	Hz	AF	---	sec	CCD	---	Tube O.D.		---	mm		File	4
	Acq. Time	1.234 sec	Delay	---		Modulation: Mode	---	Freq.	10000 Hz		Width	3000.3 Hz/ppm	Start	---	Hz/ppm	Temp	---	°C	Date		03.08.95				
	Pulse Width	5.0 μsec	Transients	---		Pulse Width	---	μsec	Power Mode		11.0	Reference	---	Solvent	D4O	XL	4E1 300								

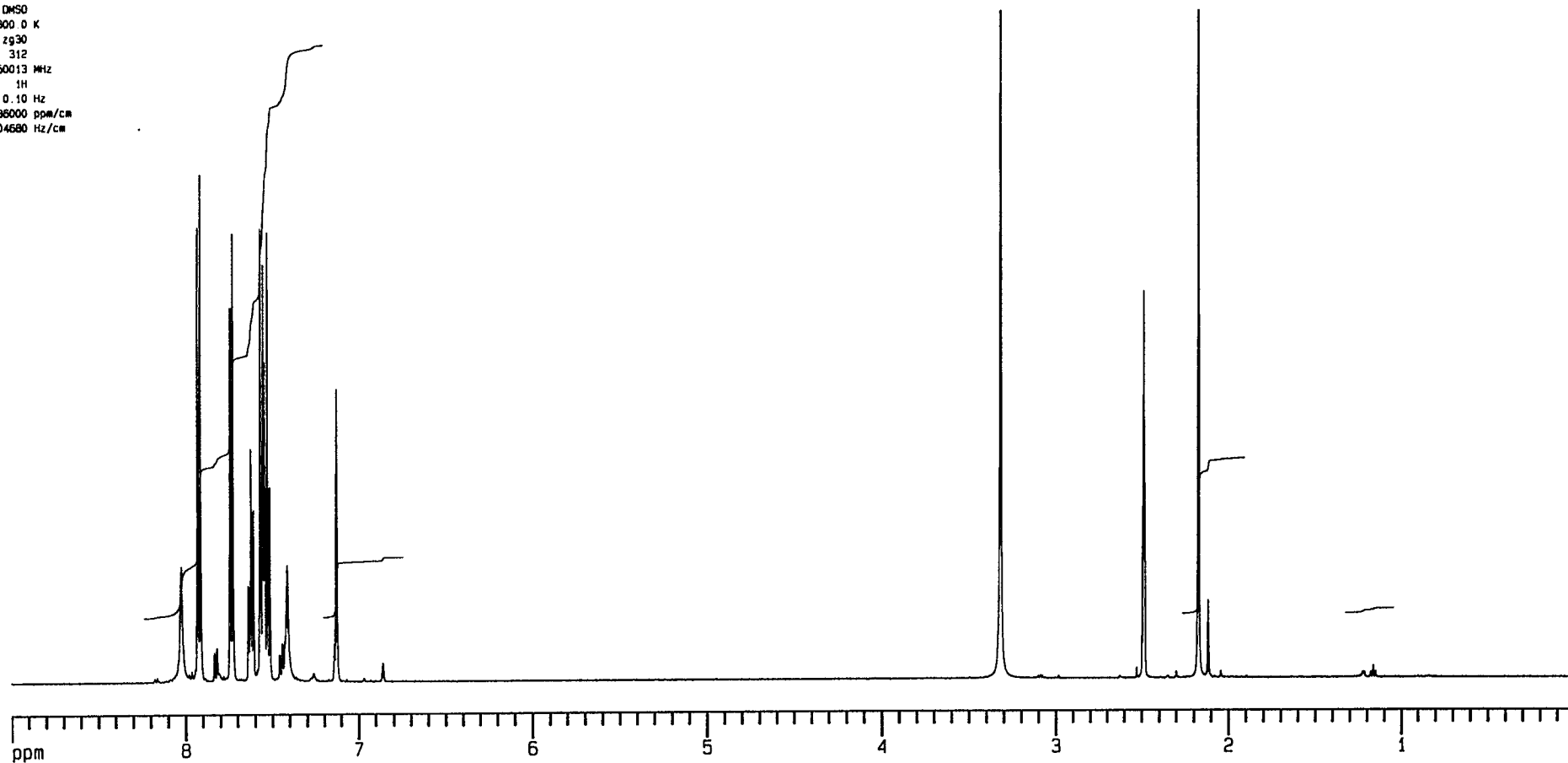
605485

PH2.271 COM/BT/BS/CT

**3e**

Current Data Parameters

NAME
EXPNO 1
PROCNO 1
Date_ 970325
INSTRUM drx500
PROBHD BB1z5mm
NUC1 ¹H
SF01 500.1350013 MHz
SOLVENT DMSO
TE 300.0 K
PULPROG zg30
MS 312
SF01 500.1350013 MHz
NUC1 ¹H
LB 0.10 Hz
PPMCM 0.36000 ppm/cm
HZCM 180.04680 Hz/cm

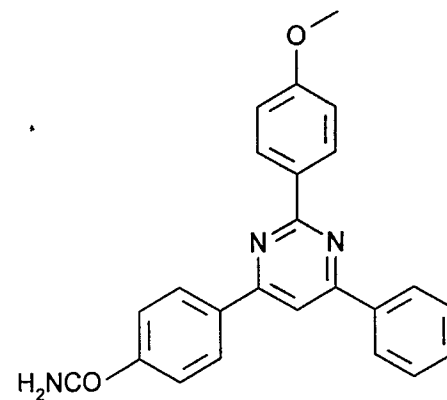


JOURNAL NR. _____

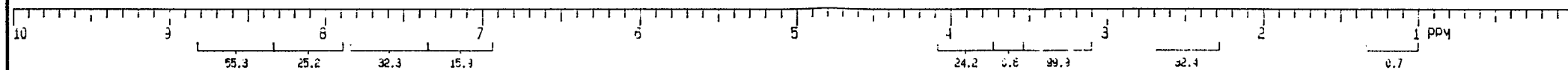
UNTERSCHRIFT _____

SPECTRAL LINES FOR TH= 50.00
RFL= 579.2 RFR= 0

INDEX	FREQ	PPM	INTENSITY
01	2590.01	8.631	141.208
02	2560.98	8.601	153.557
03	2571.66	8.580	115.185
04	2566.05	8.551	132.399
05	2563.12	8.542	178.615
06	2555.36	8.517	59.633
07	2552.16	8.505	71.966
08	2543.50	8.493	67.792
09	2546.29	8.485	67.955
10	2433.68	8.110	125.329
11	2425.01	8.081	113.576
12	2290.01	7.631	92.187
13	2289.18	7.629	84.301
14	2286.01	7.618	113.923
15	2283.29	7.609	134.171
16	2148.05	7.158	148.121
17	2139.01	7.128	139.611
18	1162.29	3.873	587.147
19	1003.91	3.346	1.26E 3
20	753.75	2.512	98.983
21	751.95	2.506	215.462
22	750.09	2.500	302.409
23	748.22	2.493	215.473
24	746.39	2.487	96.886



4a

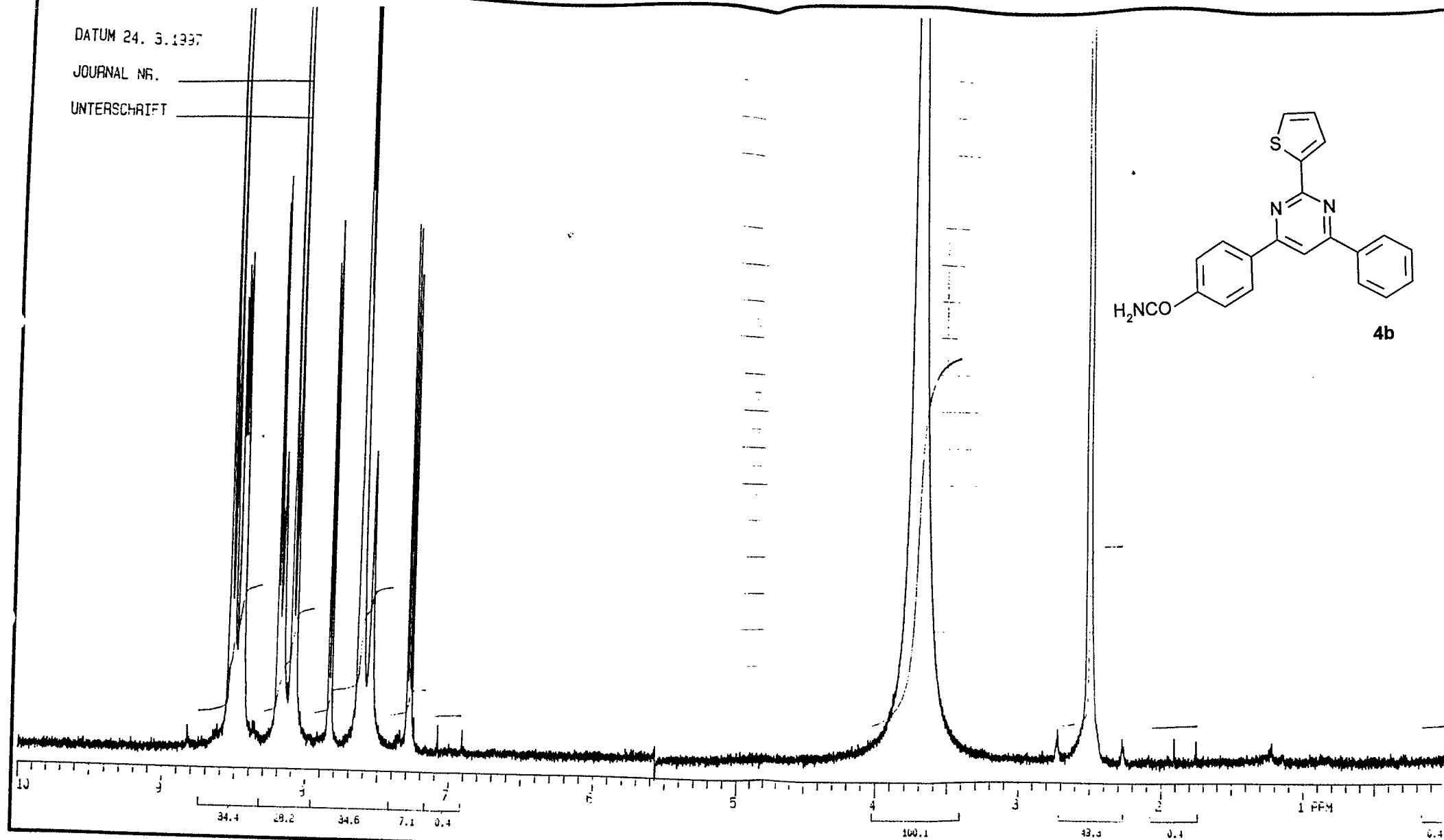
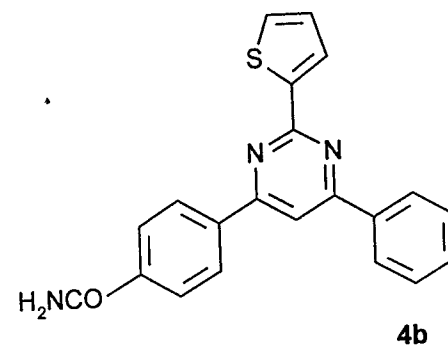


OBSERVE	Nucleus	1.000	Freq	300	MHz	DECOUPLE	Nucleus	1.000	Offset	-450.0	Hz	PLOT/PROCESSING	FN	32	K	RE	sec	CD	sec	EXPERIMENT	Pulse Sequence	SEPI	SAMPLE	Number		
	Spec. Width	4500.5	Hz	Offset	0		Hz	Mode	VNW	Power	20.0		db	LB		Hz	AF	sec	CCD		sec	Tube O.D.		mm	File	H
	Acq. Time	1.398	sec	Delay	0		sec	Modulation Mode	0	Freq	10000		Hz	Width	3000.3	Hz/ppm	Start	0	Hz/ppm		Temp			°C	Date	03-24-97
	Pulse Width	5.0	μsec	Transients	64			Pulse Width		μsec	Power Mode		11.0		Reference			Solvent	CDCl3		1st 14.42	XL		24 300		

DATUM 24. 3.1997

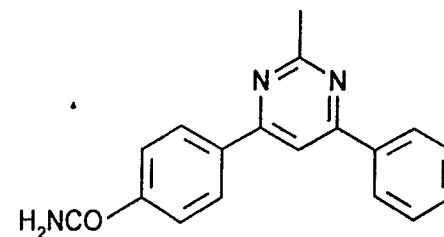
JOURNAL NR.

UNTERSCHRIFT

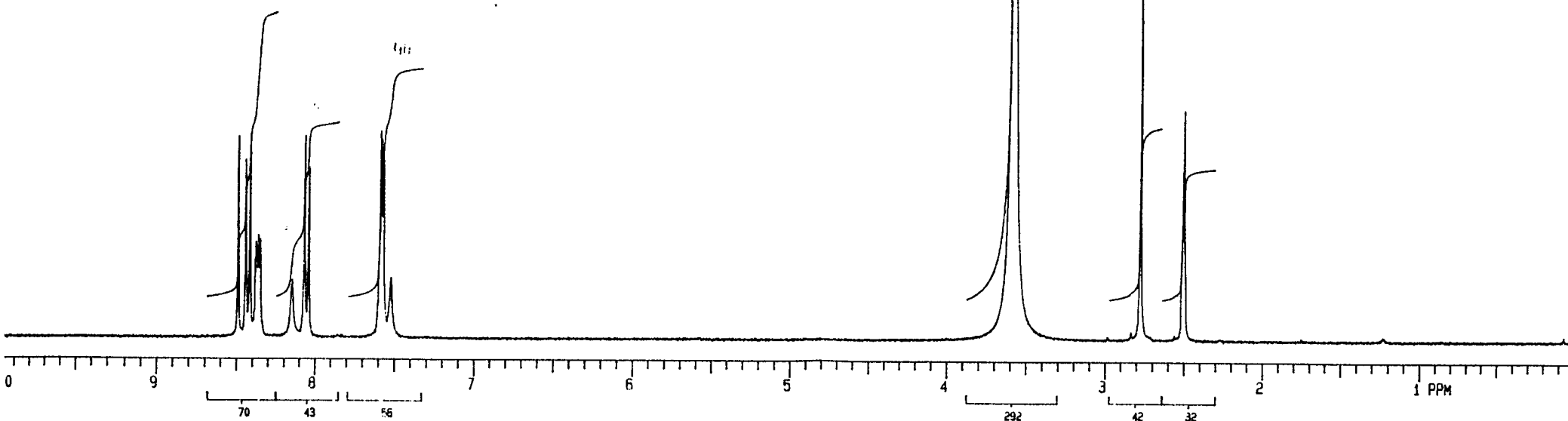


OBSERVE	Nucleus <u>1.000</u> Spec. Width <u>4000.0</u> Hz Acq. Time <u>1.134</u> sec Pulse Width <u>7.0</u> μsec	Freq <u>300</u> MHz Offset <u>0</u> Hz Delay <u>0</u> sec Transients <u>4</u>	DECOUPLE	Nucleus <u>1.000</u> Mode <u>1.11</u> Modulation: Mode <u>1</u> Pulse Width <u>7.0</u> μsec	Offset <u>-400.0</u> Hz Power <u>0.00</u> dB Freq <u>10000</u> Hz Power Mode <u>11.0</u>	PLT/PROCESSING	FN <u>3c</u> K RE <u>---</u> sec CD <u>---</u> sec LB <u>---</u> Hz AF <u>---</u> sec CCD <u>---</u> Width <u>3000.0</u> Hz/ppm Start <u>0</u> Hz/ppm Reference <u>---</u>	EXPERIMENT	Pulse Sequence <u>zgpg</u> Tube O.D. <u>---</u> mm Temp. <u>---</u> °C Solvent <u>CDCl3</u>	SAMPLE	Number <u>---</u> File <u>H</u> Date <u>30-04-97</u> XL <u>EF 936/1</u>
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UNTERSCHRIFT P. No 4



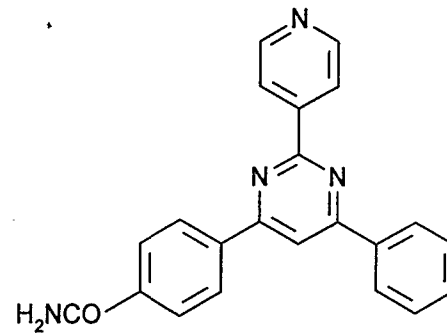
4c



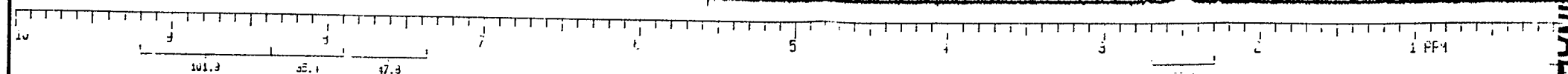
DECOUPLE	Nucleus <u>1.000</u>	Freq <u>300</u> MHz	DECOUPLE	Nucleus <u>1.000</u>	Offset <u>-40.0</u> Hz	PLOT/PROCESSING	FN <u>32</u>	K <u>RE</u>	sec <u>---</u>	CD <u>---</u>	sec <u>---</u>	EXPERIMENT	Pulse Sequence <u>CEPRIL</u>	SAMPLE	Number <u>---</u>
	Spec Width <u>400.5</u> Hz	Offset <u>0</u> Hz		Mode <u>RR</u>	Power <u>20.0</u> db		LB <u>---</u> Hz	AF <u>---</u> sec	CCD <u>---</u>	Tube OD <u>---</u> mm	File <u>H</u>				
	Acq Time <u>1.443</u> sec	Delay <u>0</u> sec		Modulation Mode <u>0</u>	Freq <u>10000</u> Hz		Width <u>3000.3</u> Hz/ppm	Start <u>0</u> Hz/ppm	Temp <u>---</u> °C	AM <u>144/1 LIOPH.</u>	Date <u>14-47-23</u>				
	Pulse Width <u>0.0</u> μsec	Transmits <u>4</u>		Pulse Width <u>---</u> μsec	Power Mode <u>11.0</u>		Reference <u>---</u>	Solvent <u>CDCl3</u>	XL <u>REM 300</u>						

QCJAH-1h.

UNIT SHIFT



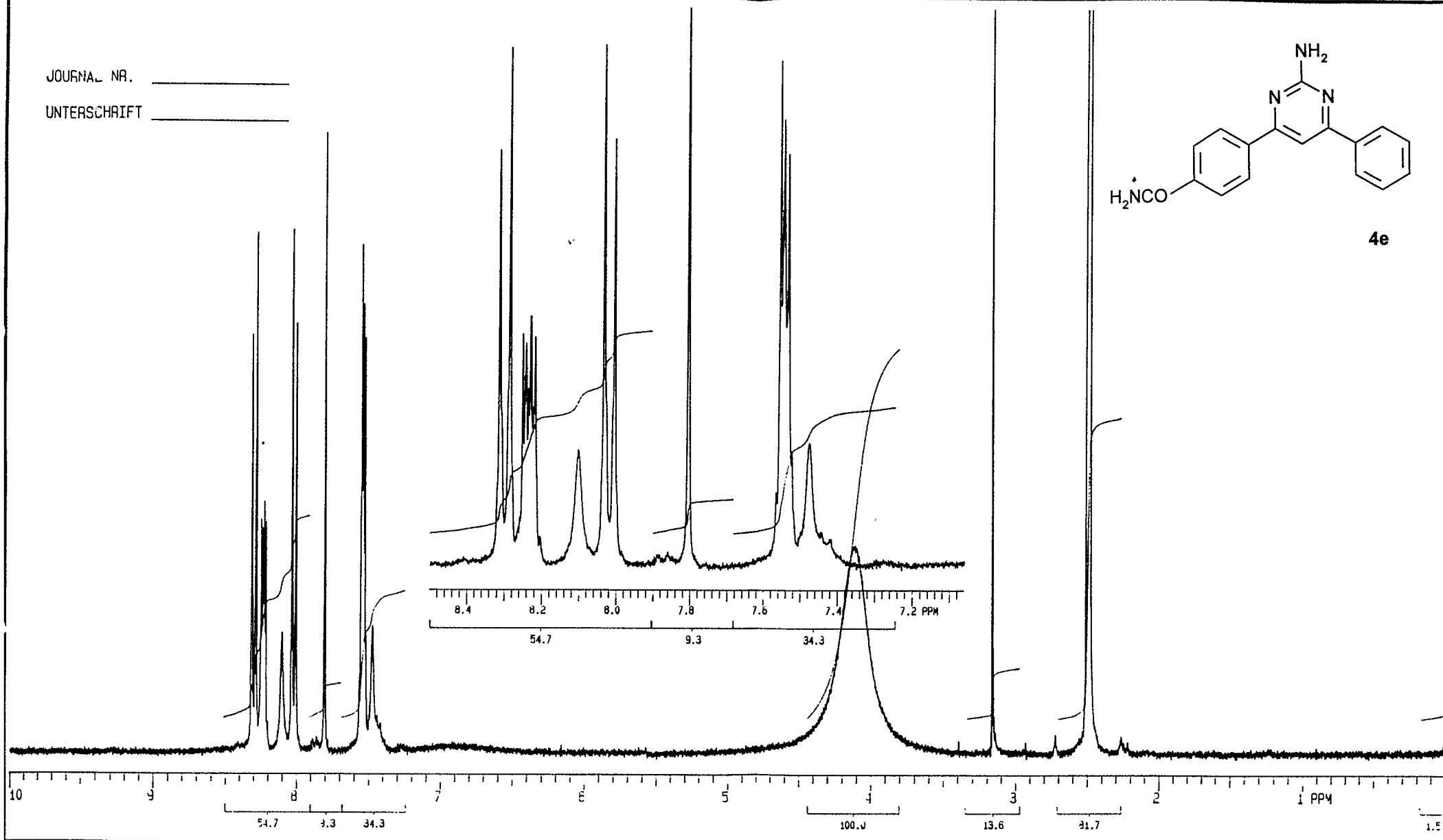
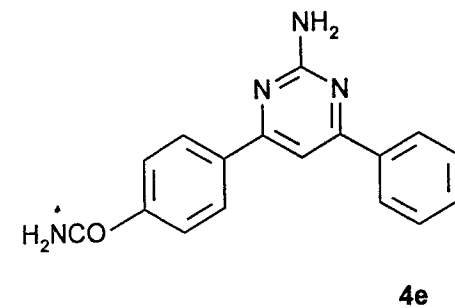
4d



OBSERVE	Nucleus	1.000	Freq	300	MHz	DECOUPLE	Nucleus	1.000	Offset	-450.0	Hz	PLOT/PROCESSING	FN	32	K	RE	sec	CD	sec	EXPERIMENT	Pulse Sequence	22P1L	SAMPLE	Number		
	Spec. Width	4500.5	Hz	Offset	0		Hz	Mode	44H	Power	20.0		dB	LB	---	Hz	AF	sec	CCD		---	Tube O.D.		mm	File	H
	Acq. Time	1.338	sec	Delay	0		sec	Modulation Mode	J	Freq	100.00		Hz	Width	3000.3	Hz/ppm	Start	0	Hz/ppm		Temp	---		°C	Date	12-10-11
	Pulse Width	5.0	μsec	Transients	16			Pulse Width	μsec	Power Mode	11.0			Reference			Solvent	CDCl3	XL		4E4 300					

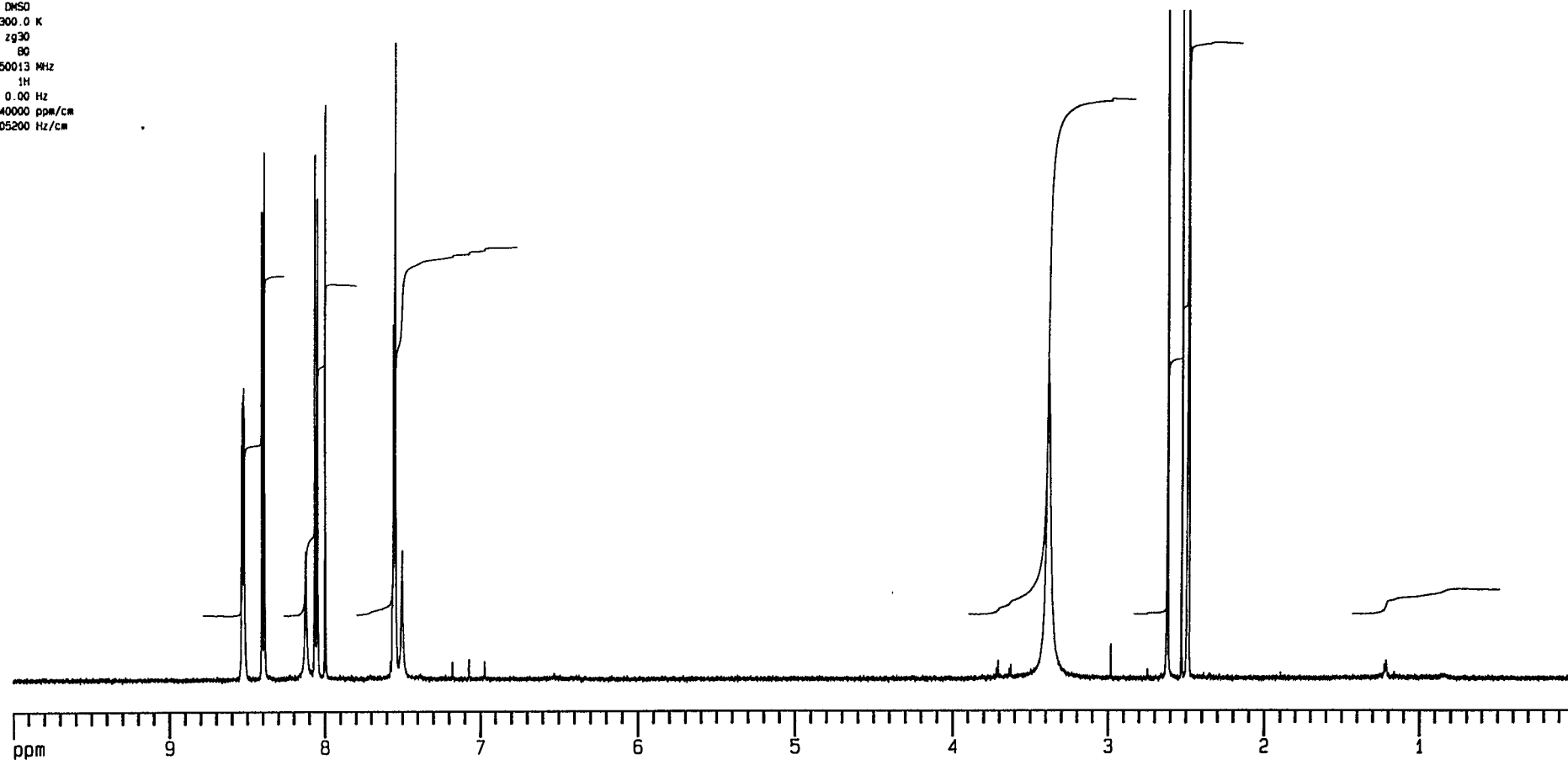
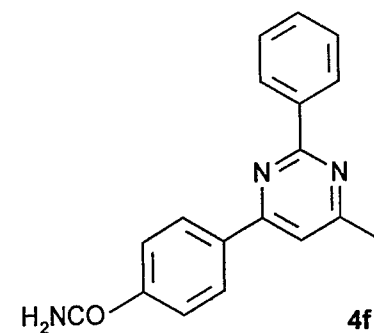
JOURNAL NR. _____

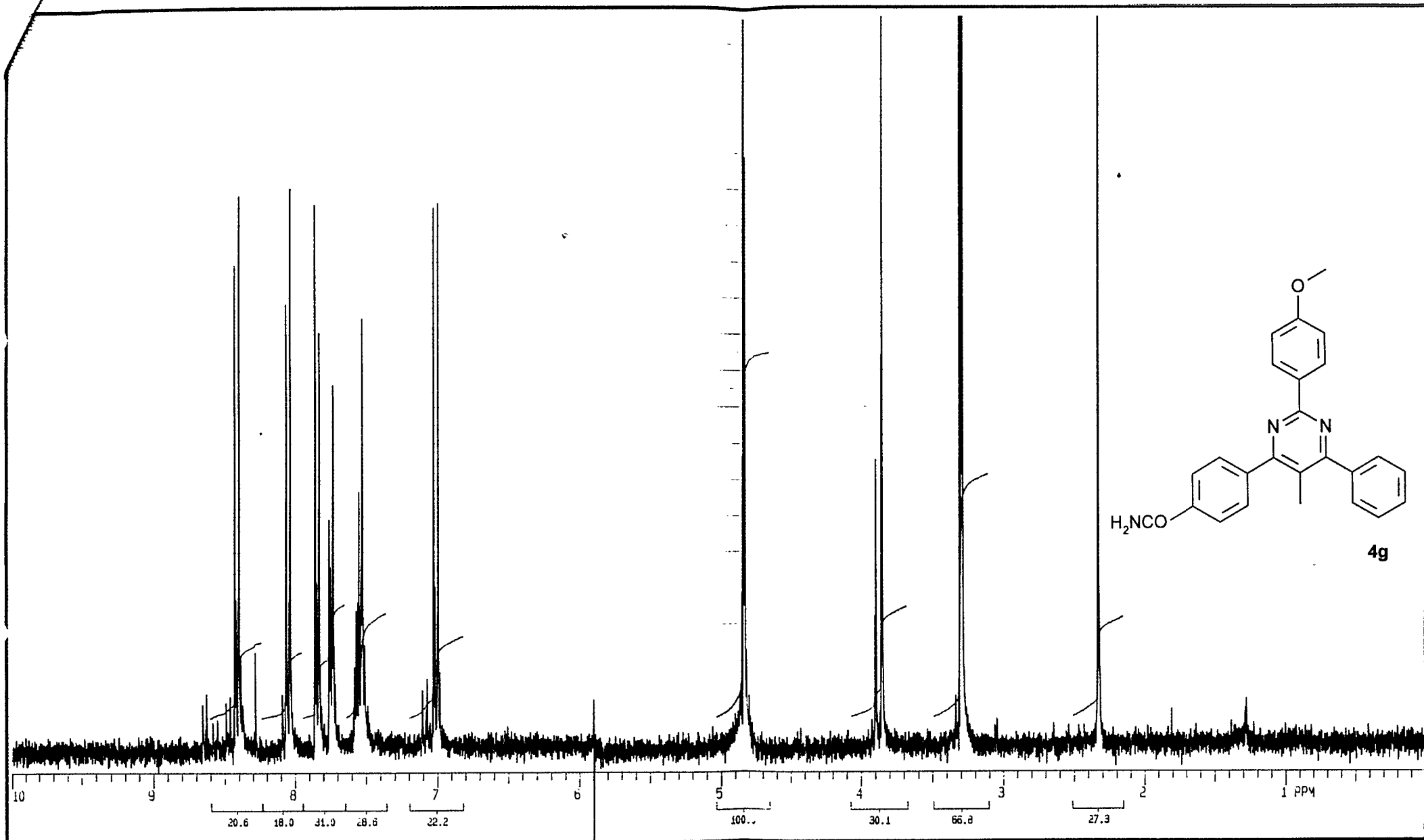
UNTERSCHRIFT _____



OBSERVE		DECOUPLE		PLOT/PROCESSING		EXPERIMENT		SAMPLE		Number														
Nucleus	1.000	Nucleus	1.000	Offset	-100.0	FN	30	K	RE	---	sec	CD	---	sec	Pulse Sequence	zgpg30	Tube O.D.	---	mm	Temp	---	°C	Solvent	-d ₂ O
Spec. Width	1000.5	Offset	---	Power	0.0	LB	---	Hz	AF	---	sec	CCD	---	sec	Width	3000.0	Hz/ppm	Start	---	Hz/ppm	Reference	---		
Acq. Time	1.000	Delay	---	Modulation: Mode	---	Freq	100.0	Hz	Power Mode	---	Power	---												
Pulse Width	10.0	Transients	1.1	Pulse Width	---	μsec																		

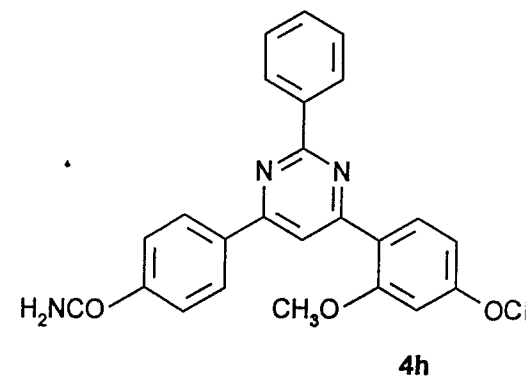
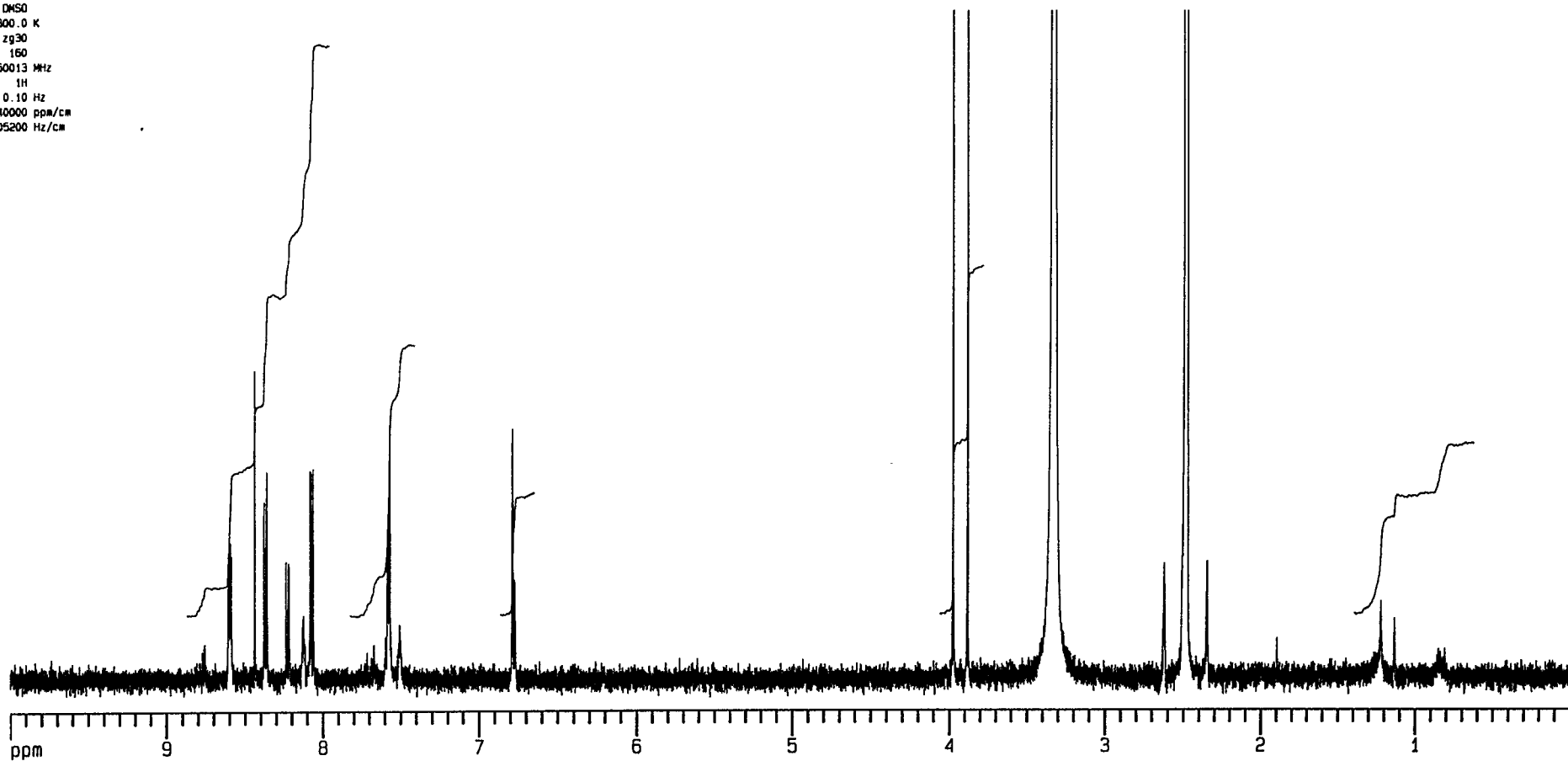
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NAME
EXPNO 1
PROCNO 1
Date_ 970425
INSTRUM grx500
PROBHD BB125mm
NUC1 1H
SF01 500.1350013 MHz
SOLVENT DMSO
TE 300.0 K
PULPROG zg30
NS 60
SF01 500.1350013 MHz
NUC1 1H
LB 0.00 Hz
PPMCH 0.40000 ppm/cm
HZCM 200.05200 Hz/cm



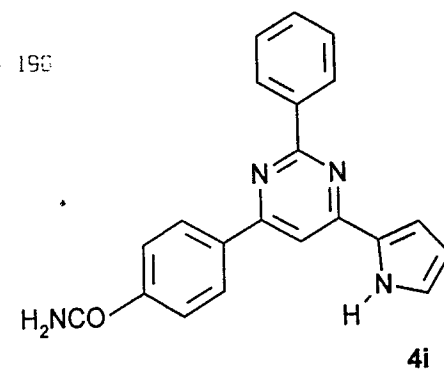
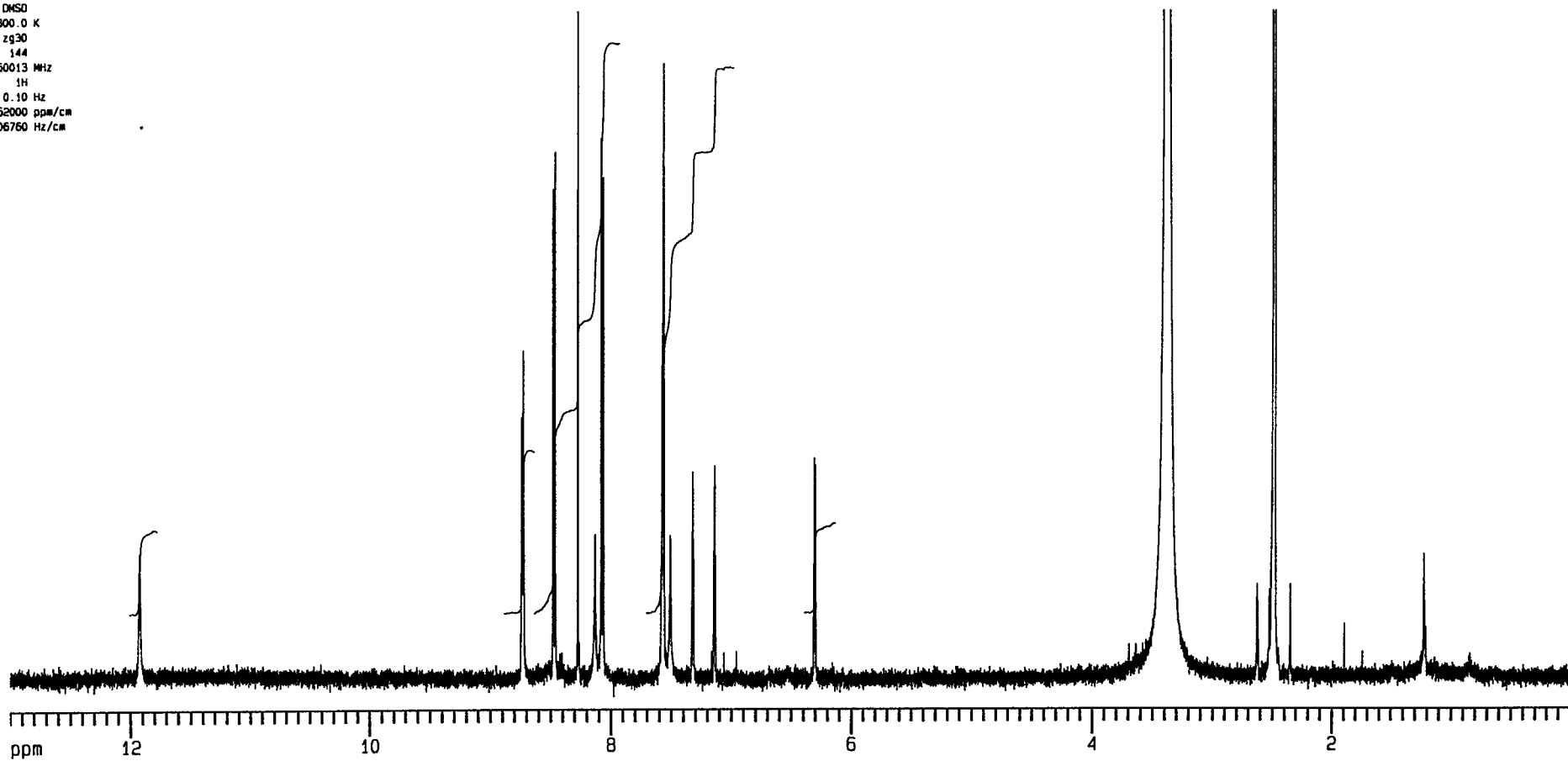


OBSERVE	Nucleus _____	Freq. _____ MHz	DECOUPLE	Nucleus _____	Offset _____ Hz	PLOT/PROCESSING	FN _____ K	RE _____ sec	CD _____ sec	EXPERIMENT	Pulse Sequence _____	SAMPLE	Number _____
	Spec. Width _____ Hz	Offset _____ Hz		Mode _____	Power _____ db		LB _____ Hz	AF _____ sec	CCD _____		Tube O.D. _____ mm		File _____
	Acq. Time _____ sec	Delay _____ sec		Modulation: Mode _____	Freq. _____ Hz		Width _____ Hz/ppm	Start _____ Hz/ppm	Temp. _____ °C		Date _____		
	Pulse Width _____ μsec	Transients _____		Pulse Width _____ μsec	Power Mode _____		Reference _____	Solvent _____	XL _____				

Current Data Parameters
NAME am195
EXPNO 1
PROCNO 1
Date_ 970325
INSTRUM drx500
PROBHD BB125mm
NUC1 1H
SFO1 500.1350013 MHz
SOLVENT DMSO
TE 300.0 K
PULPROG zg30
NS 160
SFO1 500.1350013 MHz
NUC1 1H
LB 0.10 Hz
PPMCM 0.40000 ppm/cm
HZCM 200.05200 Hz/cm

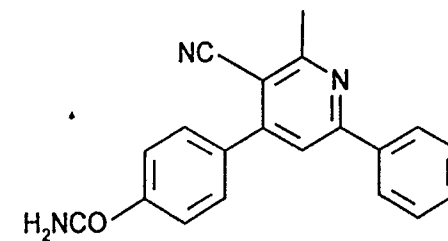


Current Data Parameters
 NAME am1961
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 PROCNO 1
 Date_ 970401
 INSTRUM drx500
 PROBHD 880 5mm
 NUC1 1H
 SF01 500.1350013 MHz
 SOLVENT DMSO
 TE 300.0 K
 PULPROG zg30
 NS 144
 SF01 500.1350013 MHz
 NUC1 1H
 LB 0.10 Hz
 PPMDM 0.52000 ppm/cm
 HZCM 260.06760 Hz/cm

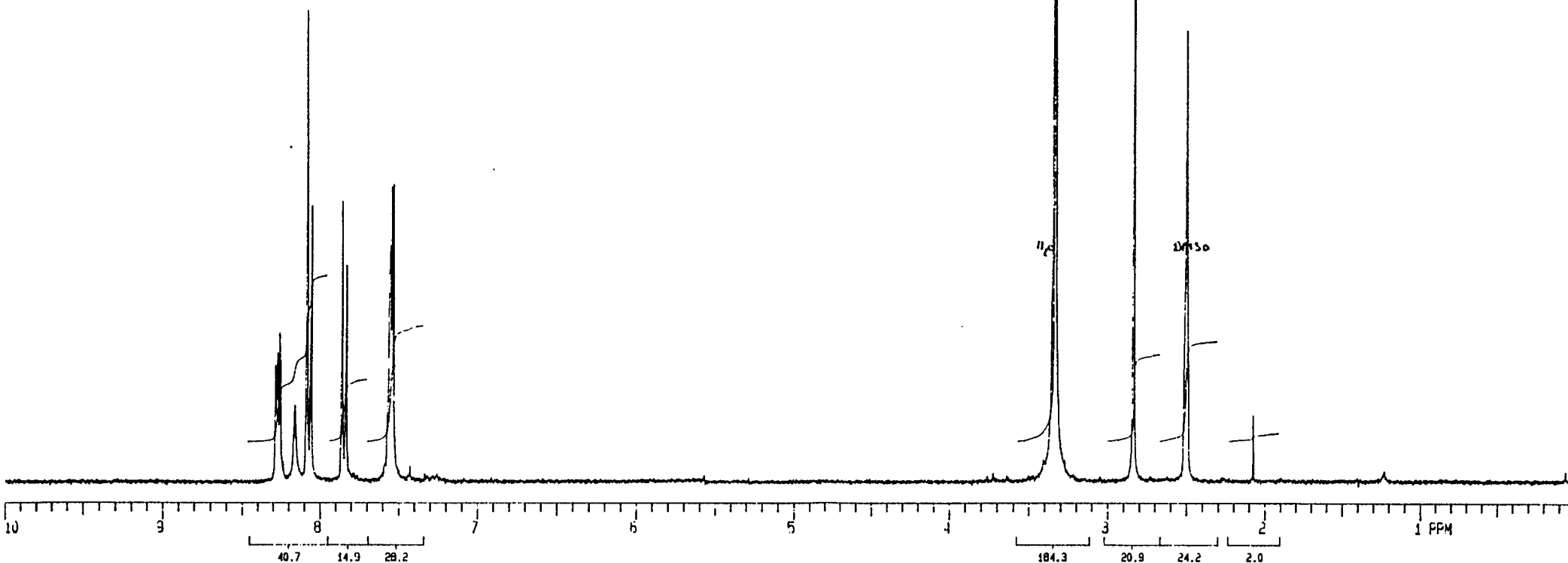


JOURNAL NR. PL1-413-84

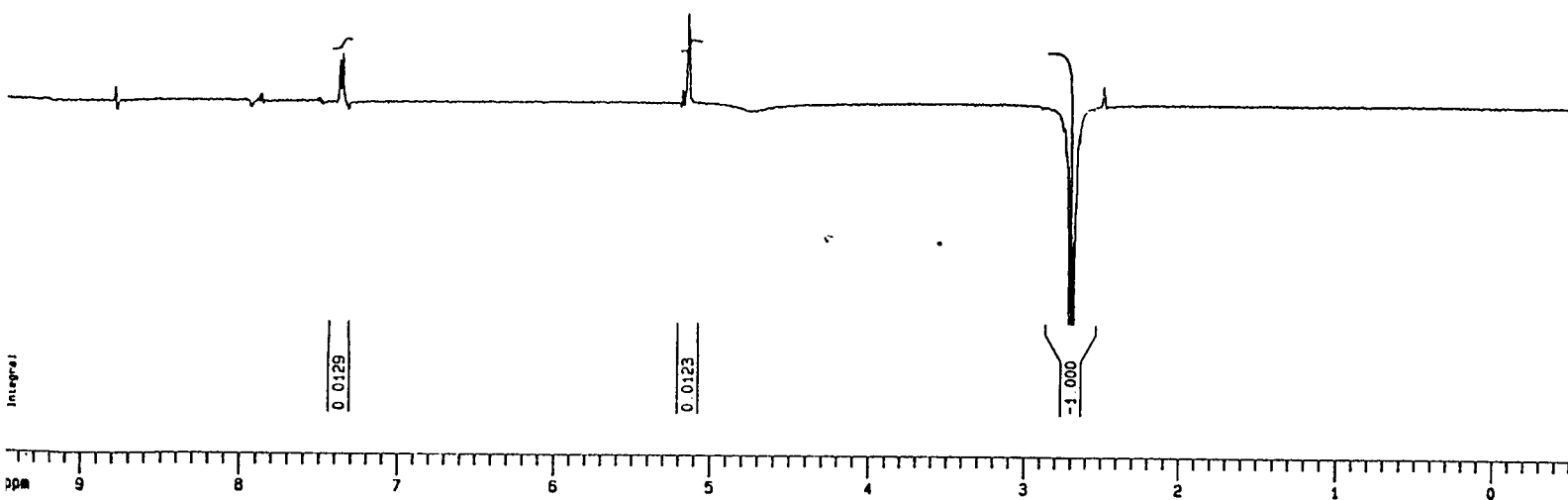
UNTERSCHRIFT Pl. 12-61



5



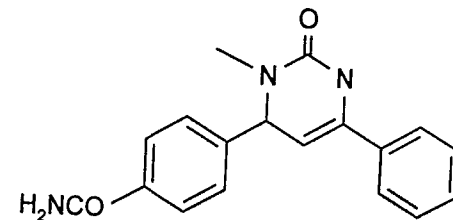
OBSERVE	Nucleus	1.000	Freq	300	MHz
	Spec. Width	4500.5	Offset	0	Hz
	Acq. Time	1.998	Delay	0	sec
	Pulse Width	5.0	Transmit	64	μsec
DECOUPLE	Nucleus	1.000	Offset	-450.0	Hz
	Mode	NNH	Power	20.0	db
	Modulation Mode	C	Freq	10000	Hz
	Pulse Width		Power Mode	11.0	μsec
PLOT/PROCESSING	FM	32	K	RE	sec
	LB		Hz	AF	sec
	Width	3000.9	Hz/ppm	Start	0
	Reference				
EXPERIMENT	Pulse Sequence	S2PUL			
	Tube O.D.		mm		
	Temp		°C		
	Solvent	DMSO			
SAMPLE					
EF 842/111 LIUHM.					
Am...					
Number					
File					
Date					
15:38:82					
XL					
GEN 300					



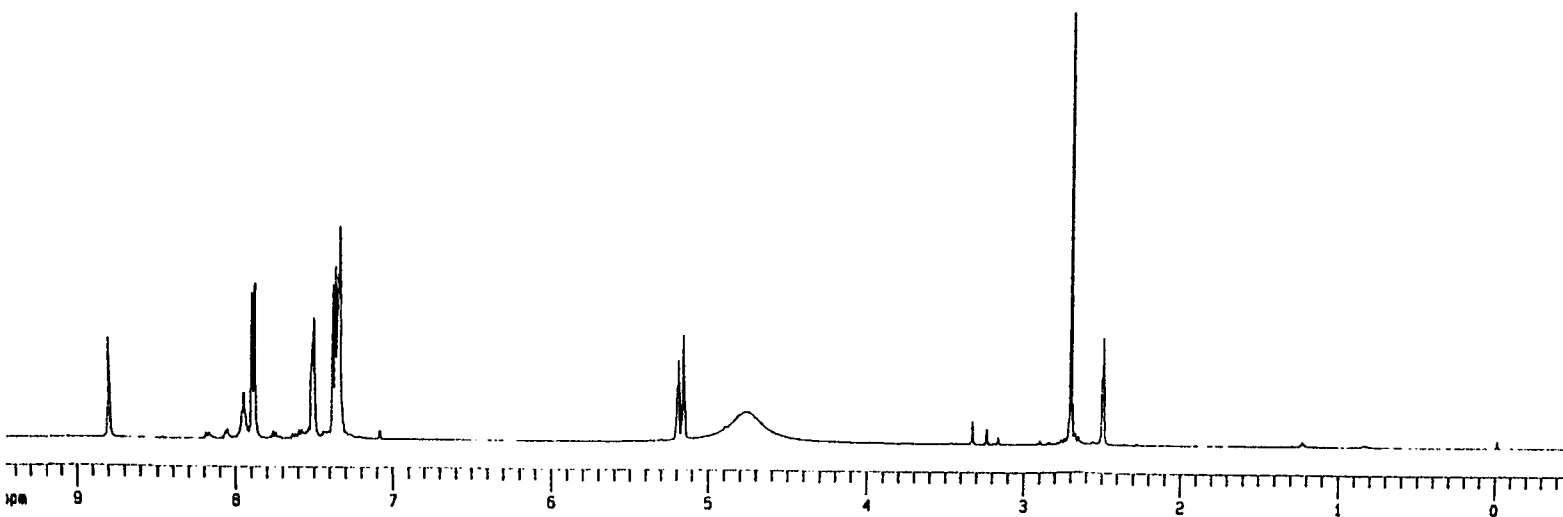
Current Data Parameters
 NAME marzinzik_787
 EXPNO 2
 PROCNO 2
 Date_ 960415
 INSTRUM drx500
 PULPROG noe.js
 SOLVENT DMSO
 NS 44
 TE 300.0 K
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000030 sec
 D1 0.03000000 sec
 D20 0.05000000 sec
 P1 9.70 usec
 SF01 500.1350013 MHz
 NUC1 1H
 LB 1996 1.00 Hz
 PPM1 0.33333 ppm/cm
 HZCM 166.71001 Hz/cm

PH2.255

EF 787



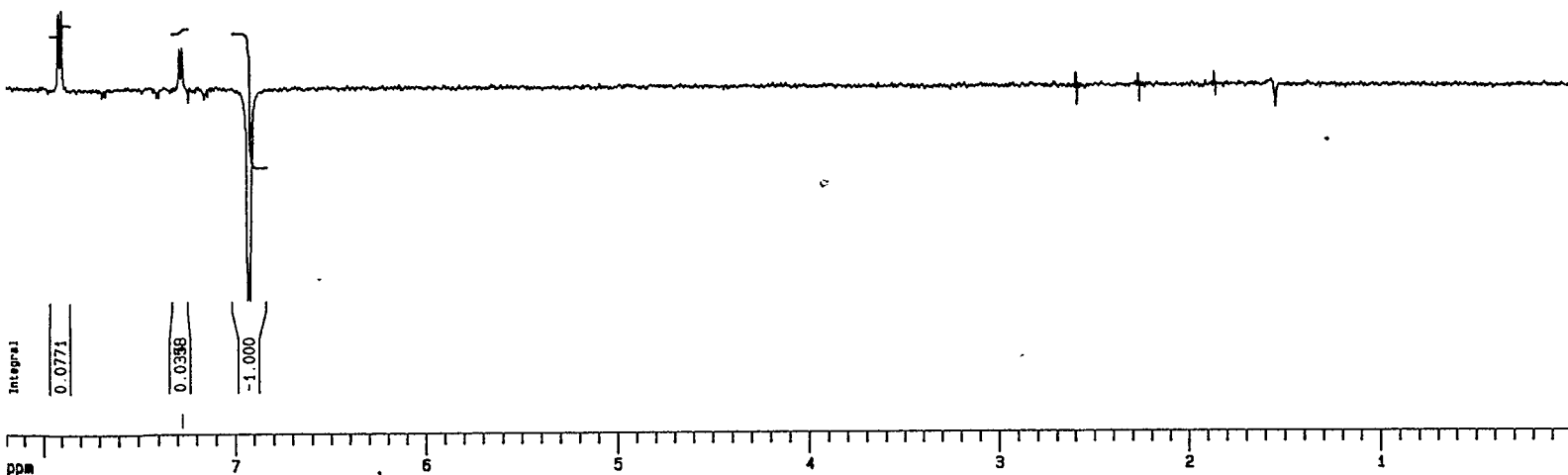
6



Current Data Parameters
 NAME marzinzik_787
 EXPNO 3
 PROCNO 1
 Date_ 960415
 INSTRUM drx500
 PULPROG noe.js
 SOLVENT DMSO
 NS 48
 TE 300.0 K
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000030 sec
 D1 0.03000000 sec
 D20 0.05000000 sec
 P1 9.70 usec
 SF01 500.1350013 MHz
 NUC1 1H
 LB 1990 1.00 Hz
 PPM1 0.33333 ppm/cm
 HZCM 166.71001 Hz/cm

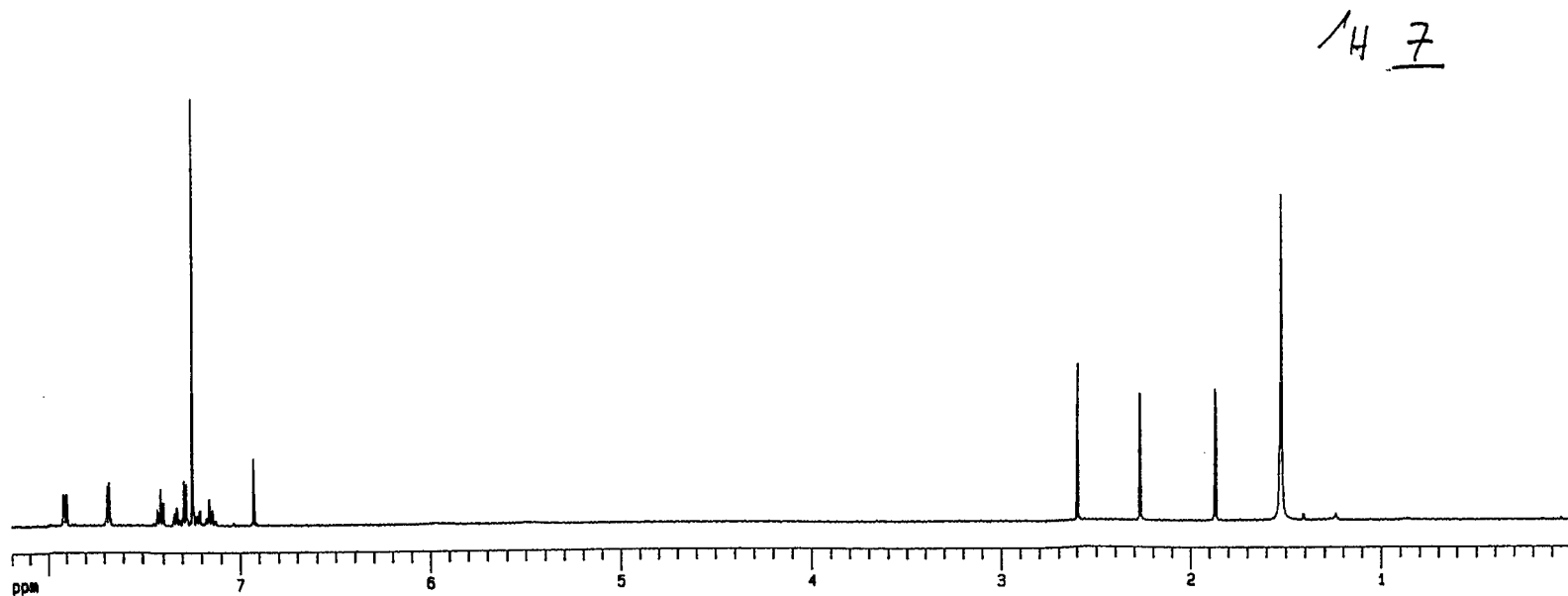
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EF 787



Current Data Parameters
 NAME n_ma18231
 EXPNO 1
 PROCNO 2
 Date_ 970225
 INSTRUM drx500
 PULPROG noe.js
 SOLVENT CDC13
 NS 72
 TE 300.0 K
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000030 sec
 D1 0.0300000 sec
 D20 0.05000000 sec
 P1 5.80 usec
 SF01 500.1350013 MHz
 NUC1 1H
 LB 1.00 Hz
 PPMCH 0.27333 ppm/cm
 HZCM 136.70221 Hz/cm

605315 PH2.2711
 COMB/BT/BS/CT am18231 H
 A.Marzinik AM 182/3
 I



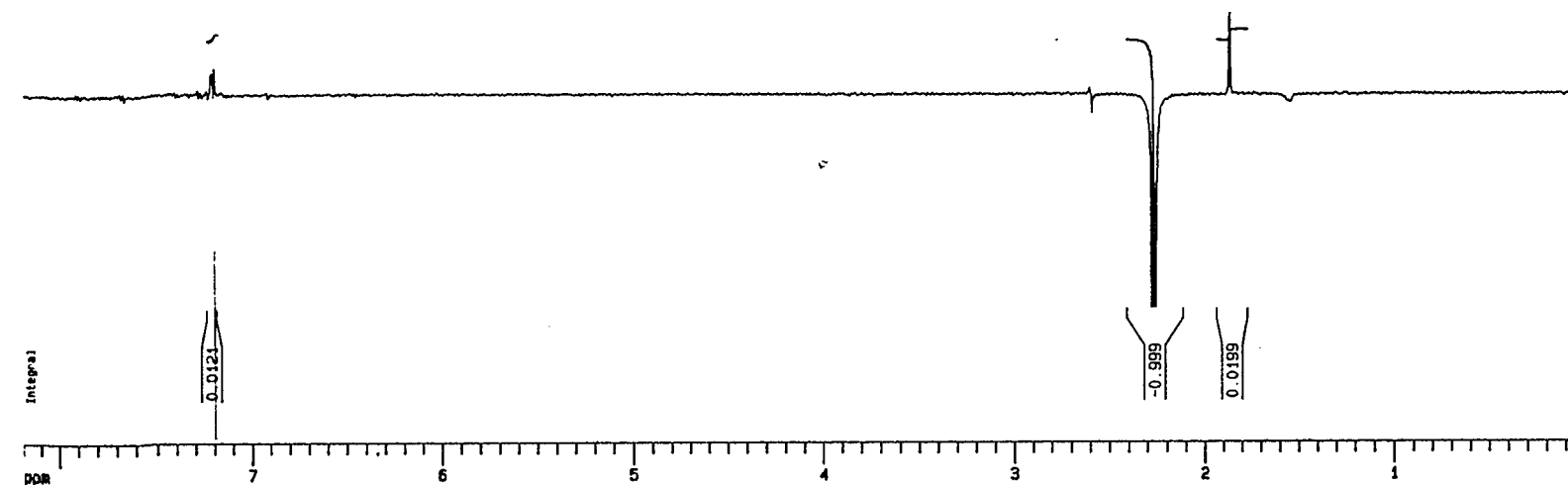
Current Data Parameters
 NAME ma18231
 EXPNO 1
 PROCNO 1
 Date_ 970221
 INSTRUM drx500
 PULPROG zg30
 SOLVENT CDC13
 NS 240
 TE 300.0 K
 D1 1.00000000 sec
 P1 5.80 usec
 SF01 500.1350013 MHz
 NUC1 1H
 LB 0.10 Hz
 PPMCH 0.27333 ppm/cm
 HZCM 136.70221 Hz/cm

605298 PH2.2711
 COMB/BT/BS/CT am18231 H
 A.Marzinik AM 182/3
 I

Current Data Parameters
 NAME n_ma1823f
 EXPNO 3
 PROCNO 2
 Date_ 970225
 INSTRUM drx500
 PULPROG noe.js
 SOLVENT CDC13
 NS 72
 TE 300.0 K
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000030 sec
 *D1 0.0300000 sec
 D20 0.0500000 sec
 P1 5.80 usec
 SF01 500.1350013 MHz
 NUC1 1H
 LB 1.00 Hz
 PPMCM 0.27333 ppm/cm
 HZCM 136.70221 Hz/cm

605316 PH2.2711
 COMB/BT/BS/CT am18231 H
 A.Marzinzik AM 182/
 I

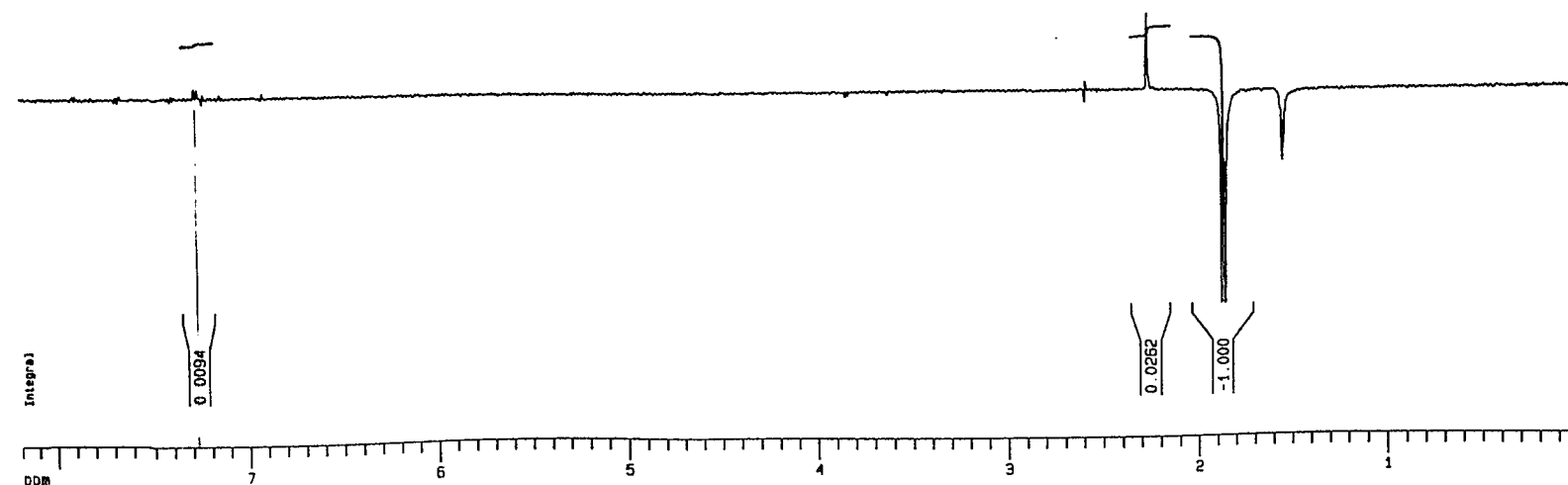
NOE2 3'-CH₃ 4



Current Data Parameters
 NAME n_ma1823f
 EXPNO 4
 PROCNO 2
 Date_ 970225
 INSTRUM drx500
 PULPROG noe.js
 SOLVENT CDC13
 NS 72
 TE 300.0 K
 d11 0.0300000 sec
 d12 0.0000200 sec
 d13 0.0000030 sec
 D1 0.0300000 sec
 D20 0.0500000 sec
 P1 5.80 usec
 SF01 500.1350013 MHz
 NUC1 1H
 LB 1.00 Hz
 PPMCM 0.27333 ppm/cm
 HZCM 136.70221 Hz/cm

605317 PH2.2711
 COMB/BT/BS/CT am18231 H
 A.Marzinzik AM 182/3
 I

NOE3 2'-CH₃ 5



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