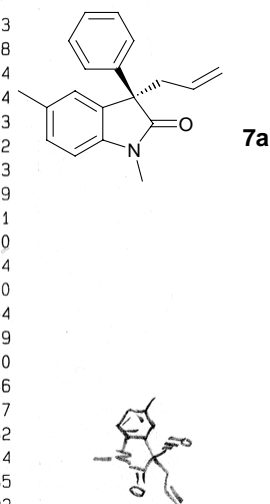


Spectrum for

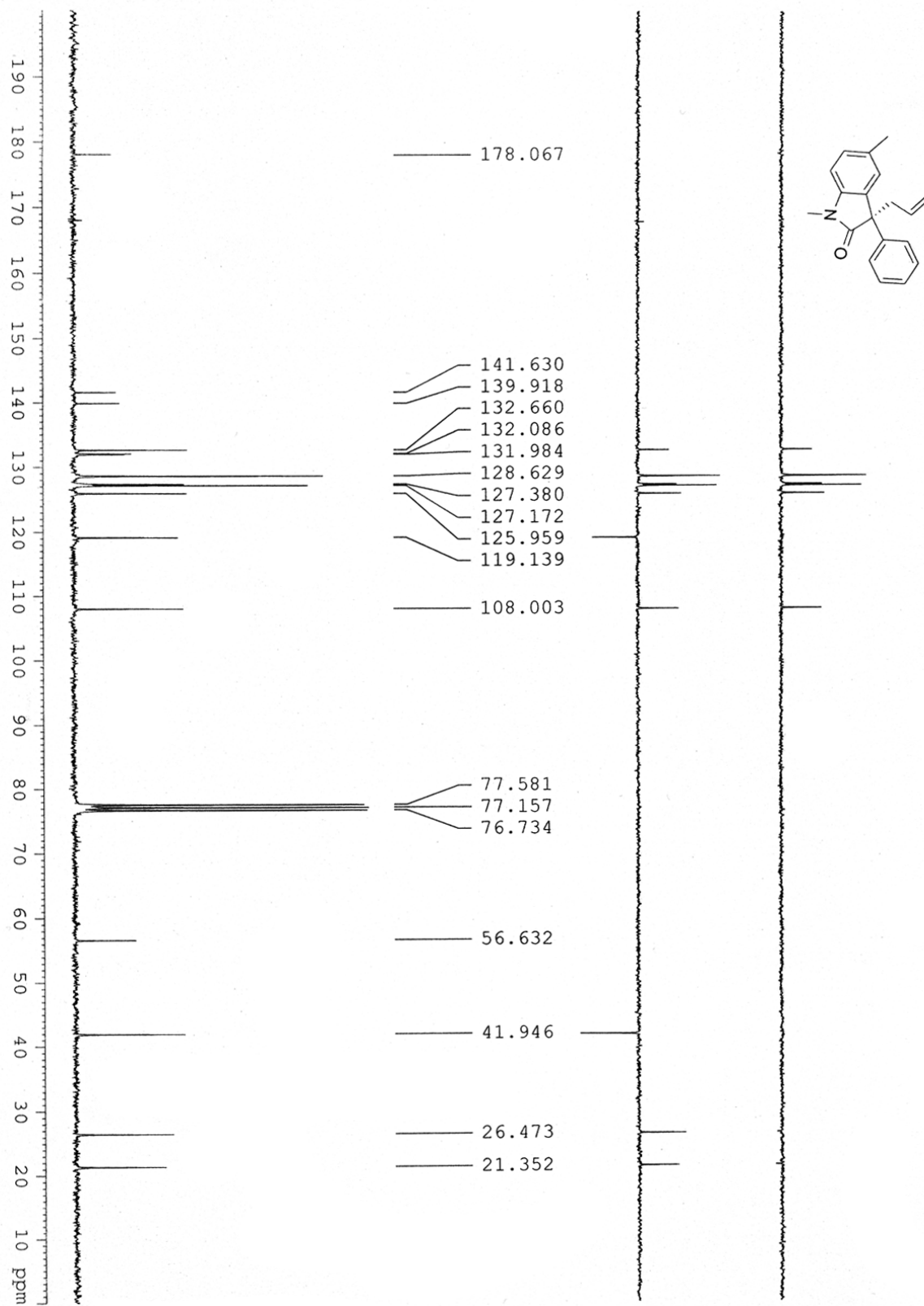
Efficient Synthesis of Esermethole and Its Analogues

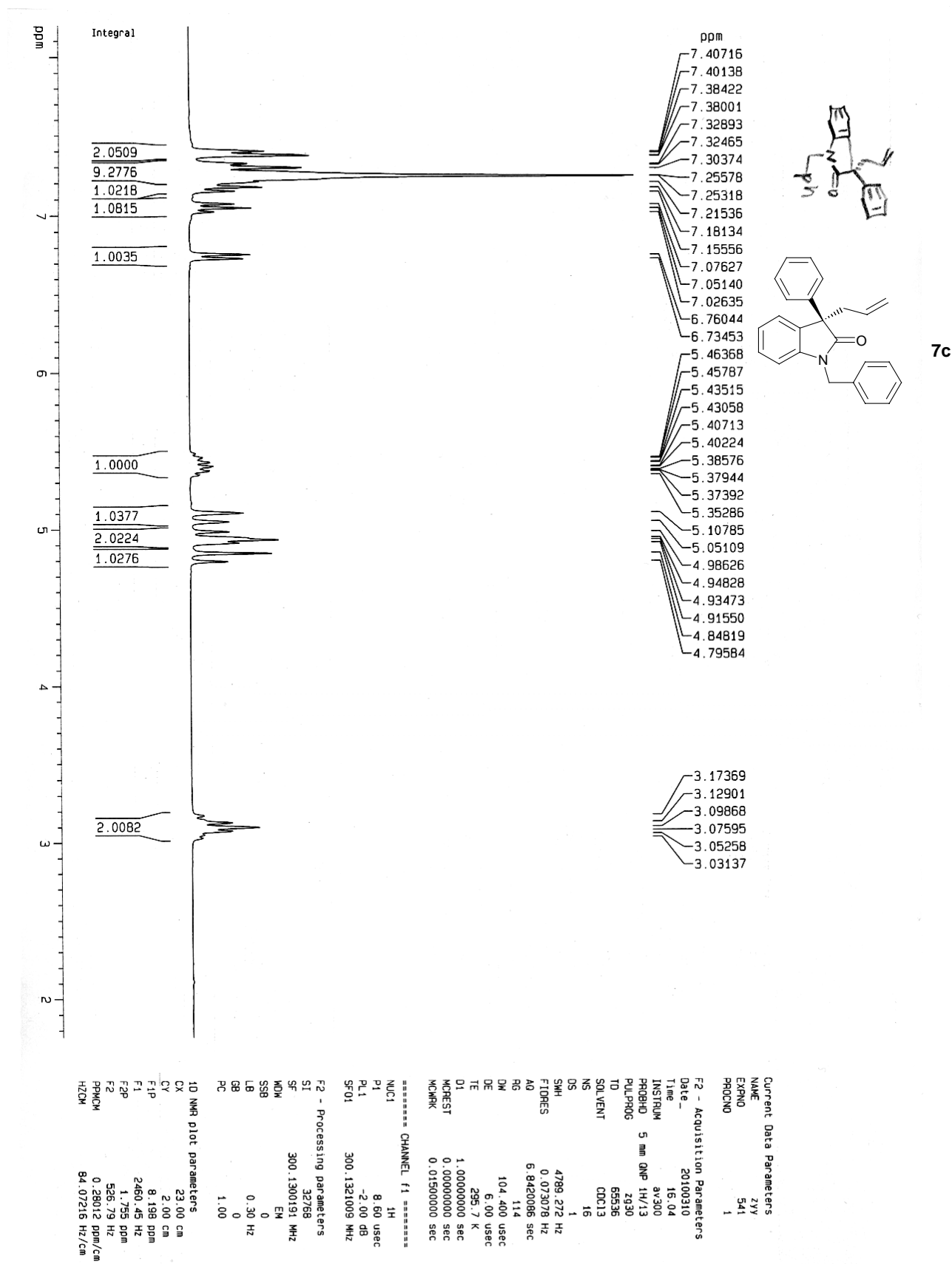
Yongyun Zhou, Yuanhong Zhao, Xiaoyong Dai, Jianping Liu, Liang Li and Hongbin Zhang*

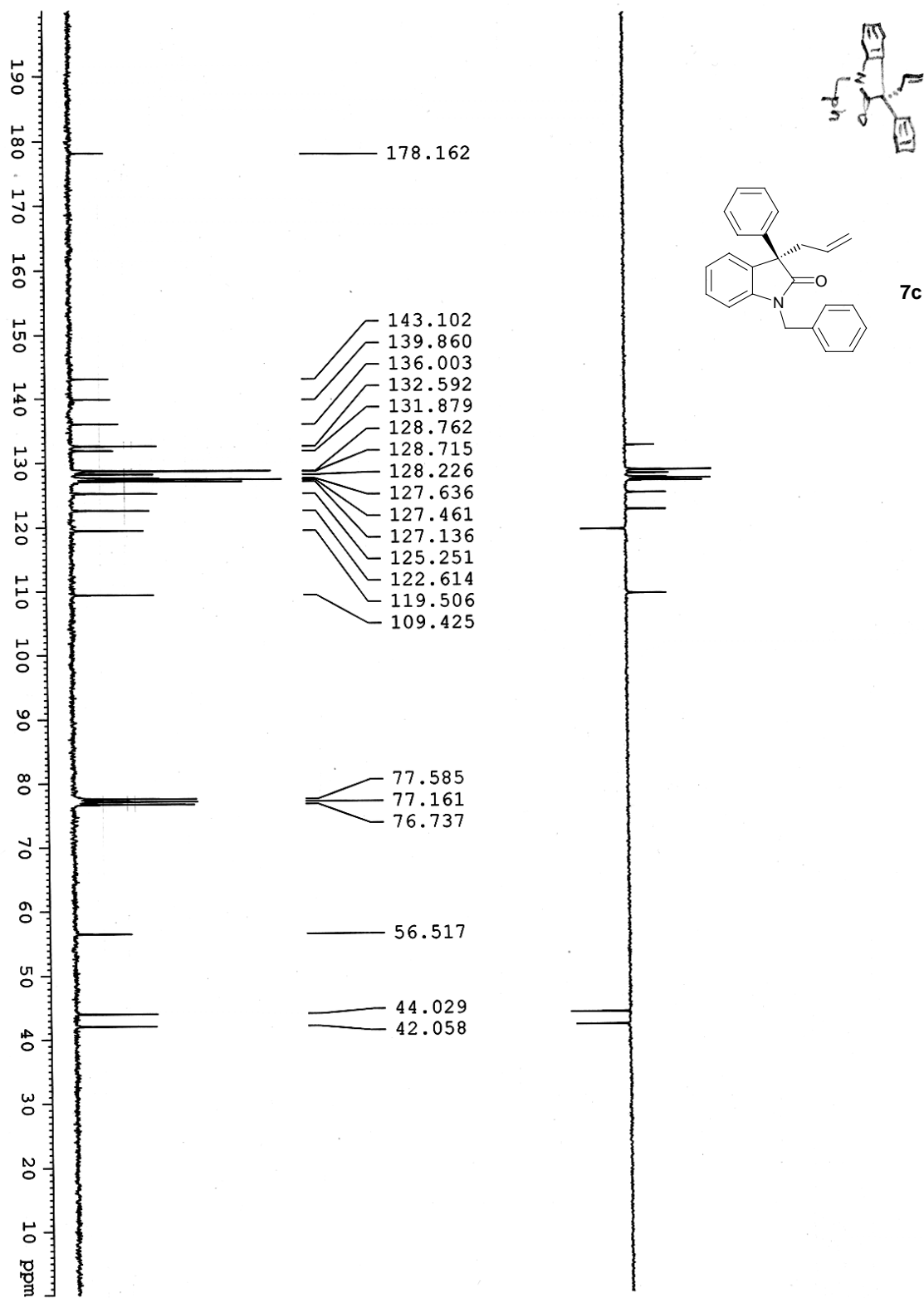
Key Laboratory of Medicinal Chemistry for Natural Resource, Ministry of Education, School of Chemical Science and Technology, Yunnan University, Kunming, Yunnan 650091, P. R. China Fax: 86-871-5035538. E-mail: zhanghb@ynu.edu.cn or zhang_hongbin@hotmail.com

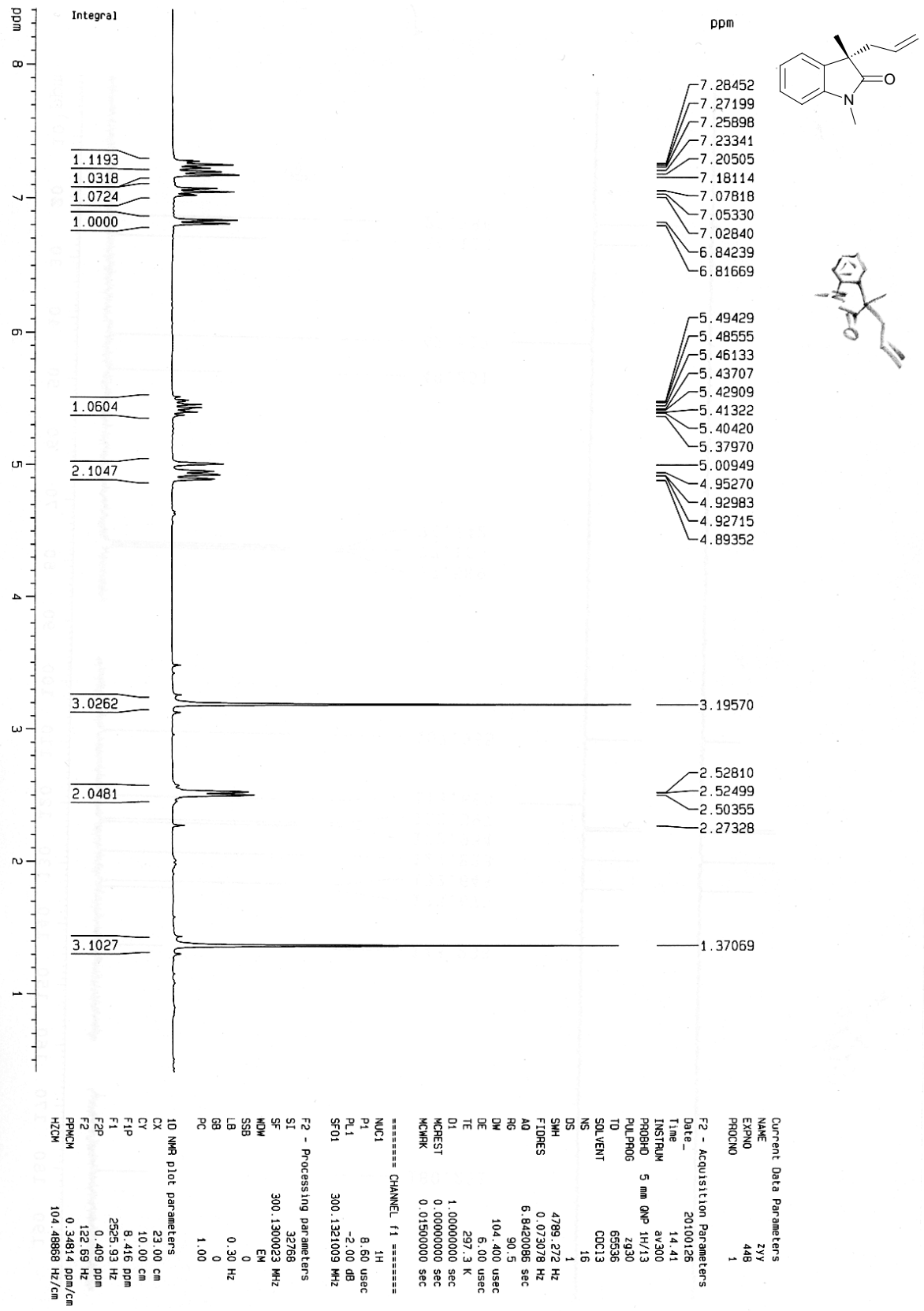


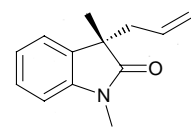
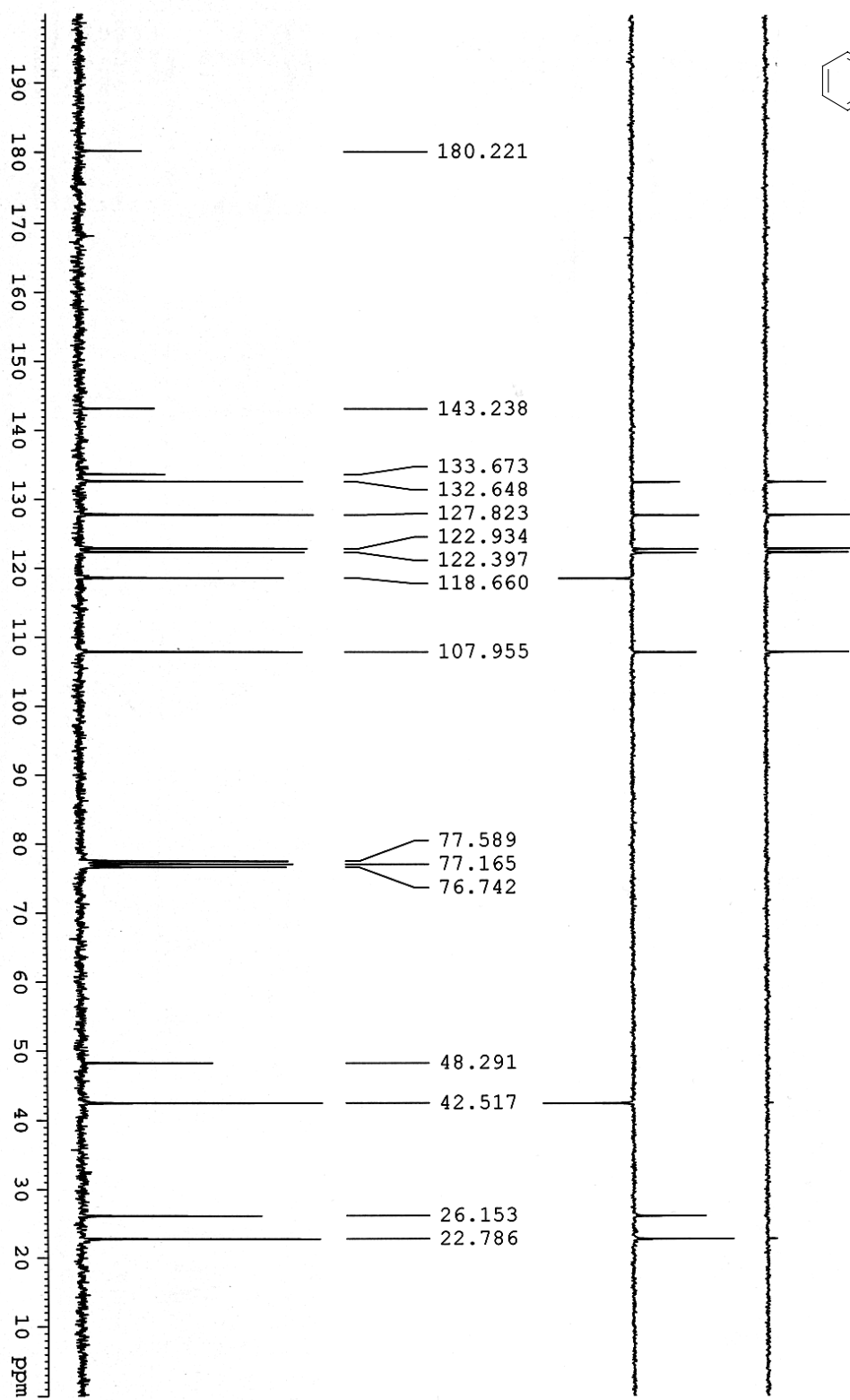
Current Data Parameters		
NAME	xyy	zzy
EXPNO	610	
PROCNO	1	
F2 - Acquisition Parameters		
Date_	20090205	
Time	13.17	
INSTRUM	av300	
PROBHD	5 mm QNP 1H/13	
PULPROG	zgpg30	
TD	65536	
SOLVENT	CDCl3	
NS	16	
DS	1	
SWH	4789.272 Hz	
FIDRES	0.073078 Hz	
AQ	6.8420086 sec	
RG	181	
DM	104.400 usec	
DE	6.00 usec	
TE	295.9 K	
D1	1.00000000 sec	
MCREST	0.00000000 sec	
MCNMR	0.01500000 sec	
===== CHANNEL f1 =====		
NULC1	1H	
P1	8.60 usec	
PL1	-2.00 dB	
SFO1	300.1321009 MHz	
F2 - Processing parameters		
SI	32768	
SF	300.1300189 MHz	
WDW	EM	
SSB	0	
B	0.30 Hz	
GB	0	
PC	1.00	
10 NMR plot parameters		
CX	23.00 cm	
CY	12.50 cm	
F1P	8.329 ppm	
F1	2499.78 Hz	
F2P	0.703 ppm	
F2	211.05 Hz	
PPHMM	0.33156 ppm/cm	
HZCM	99.51002 Hz/cm	



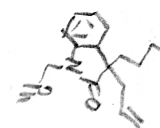
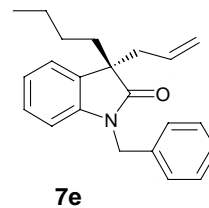
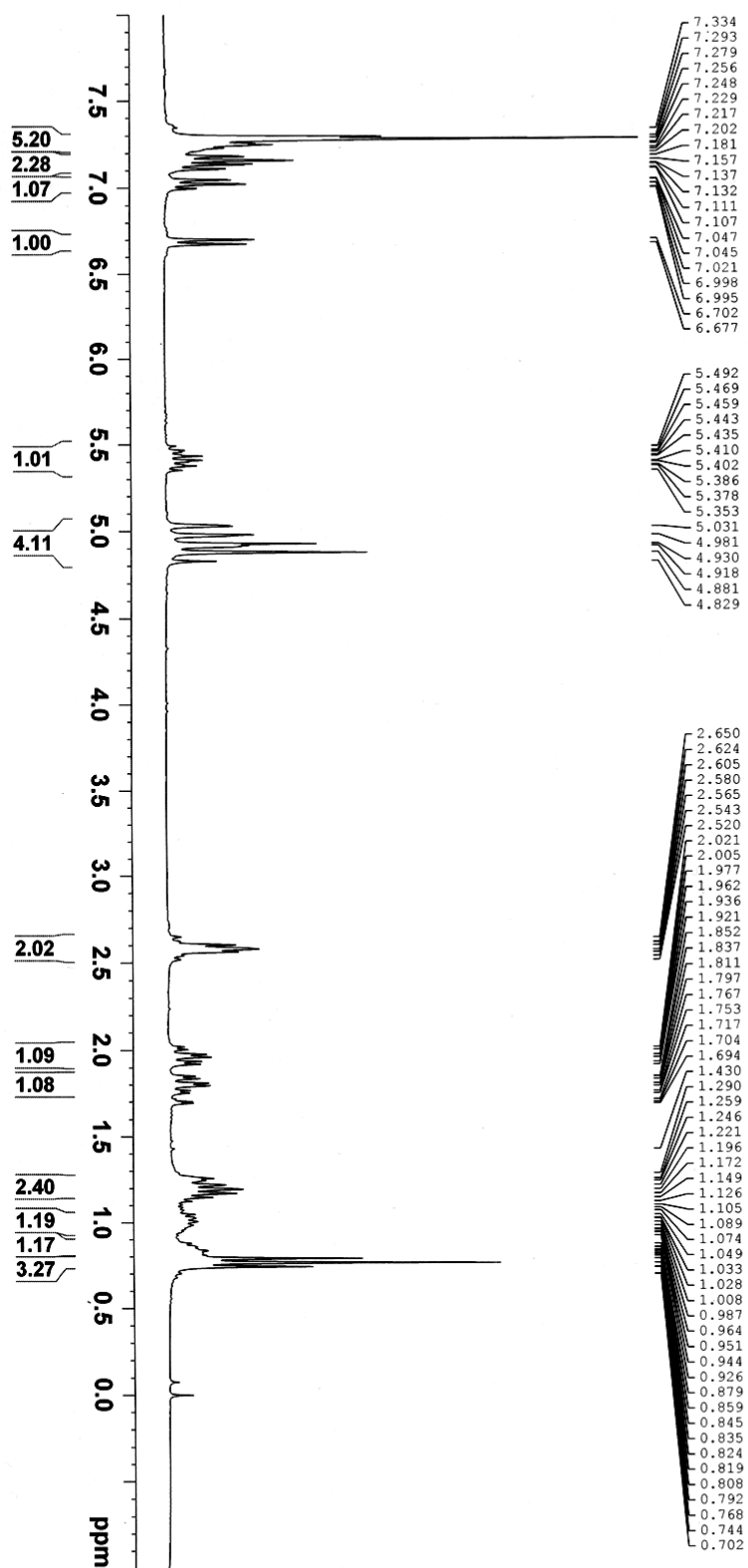


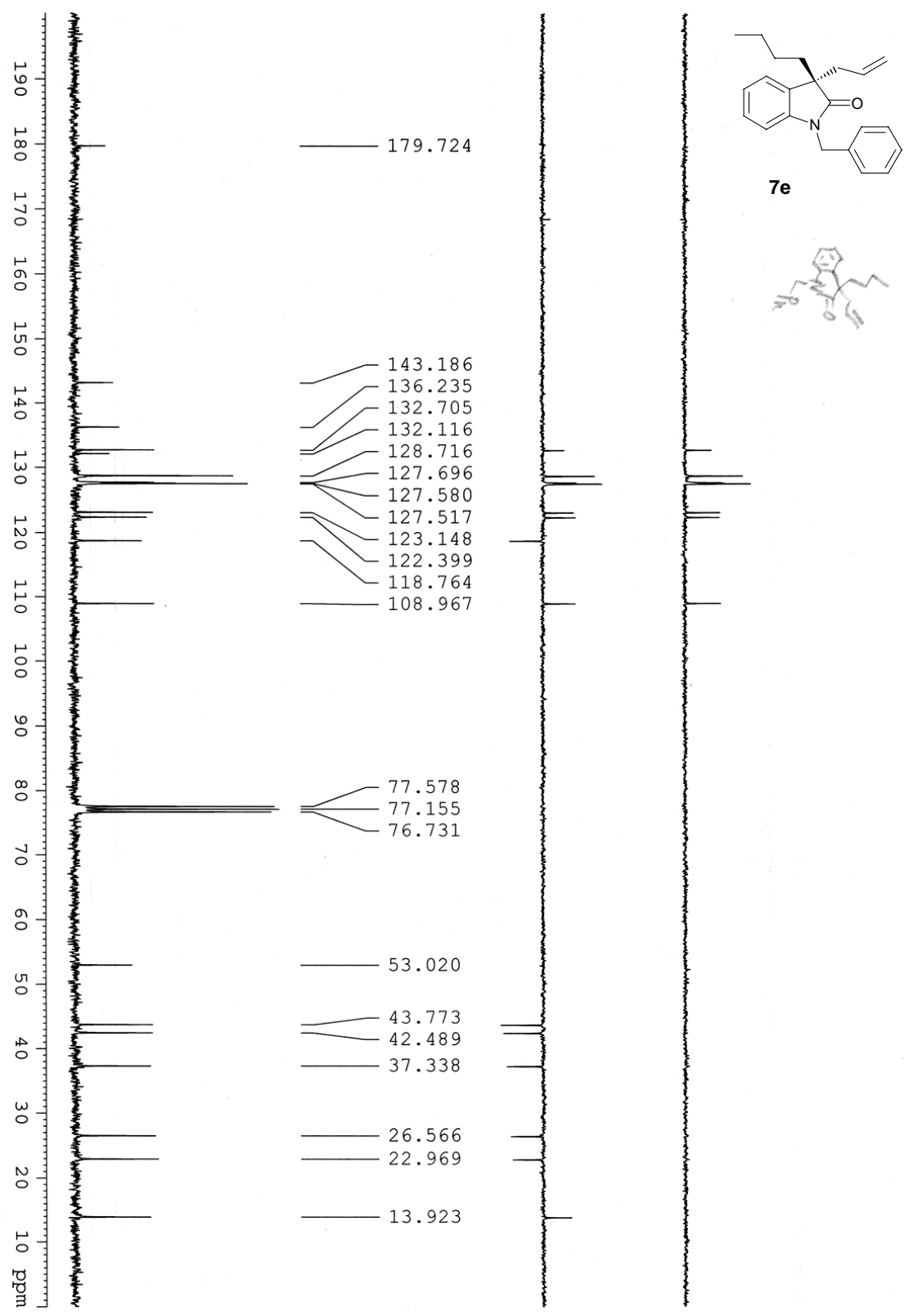


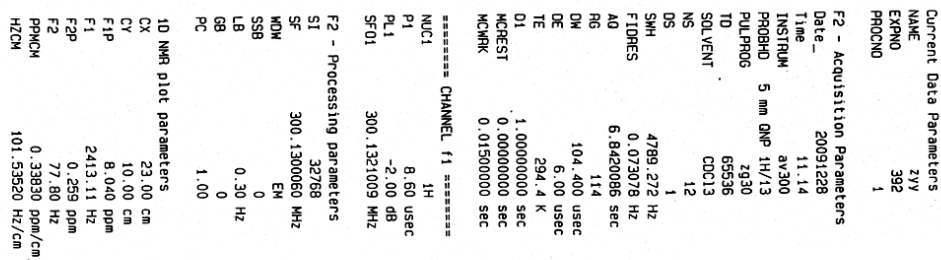


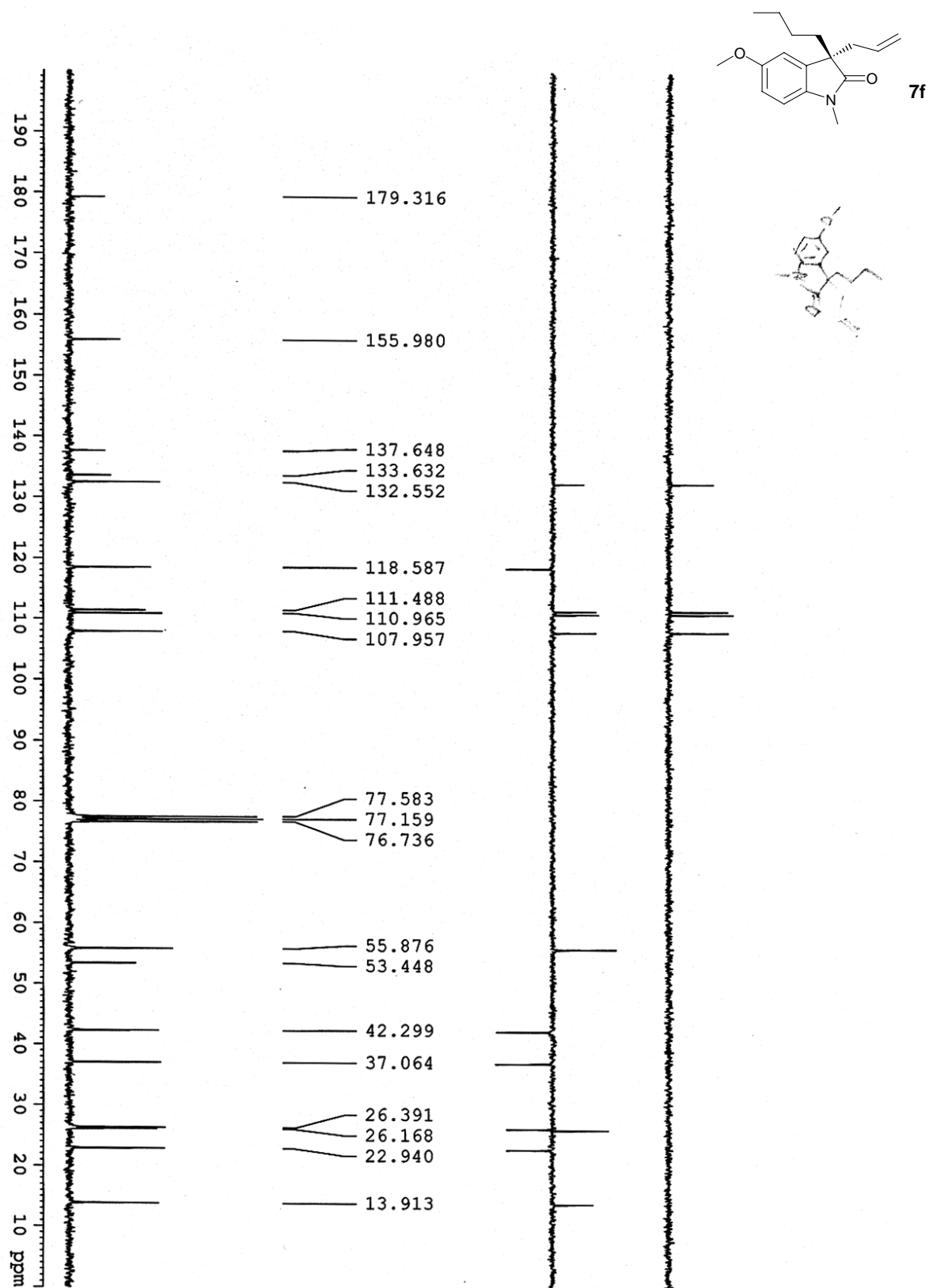


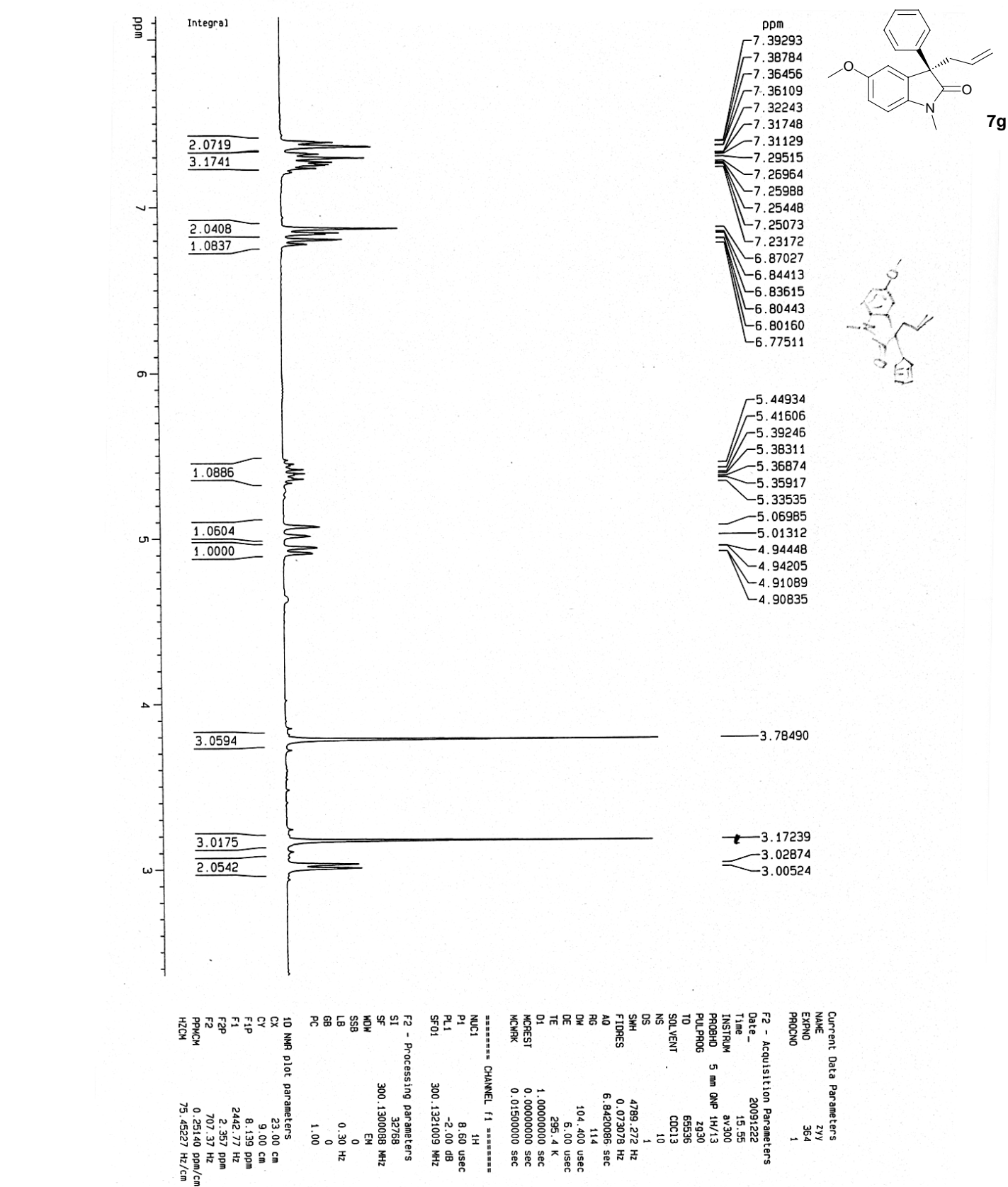
7d

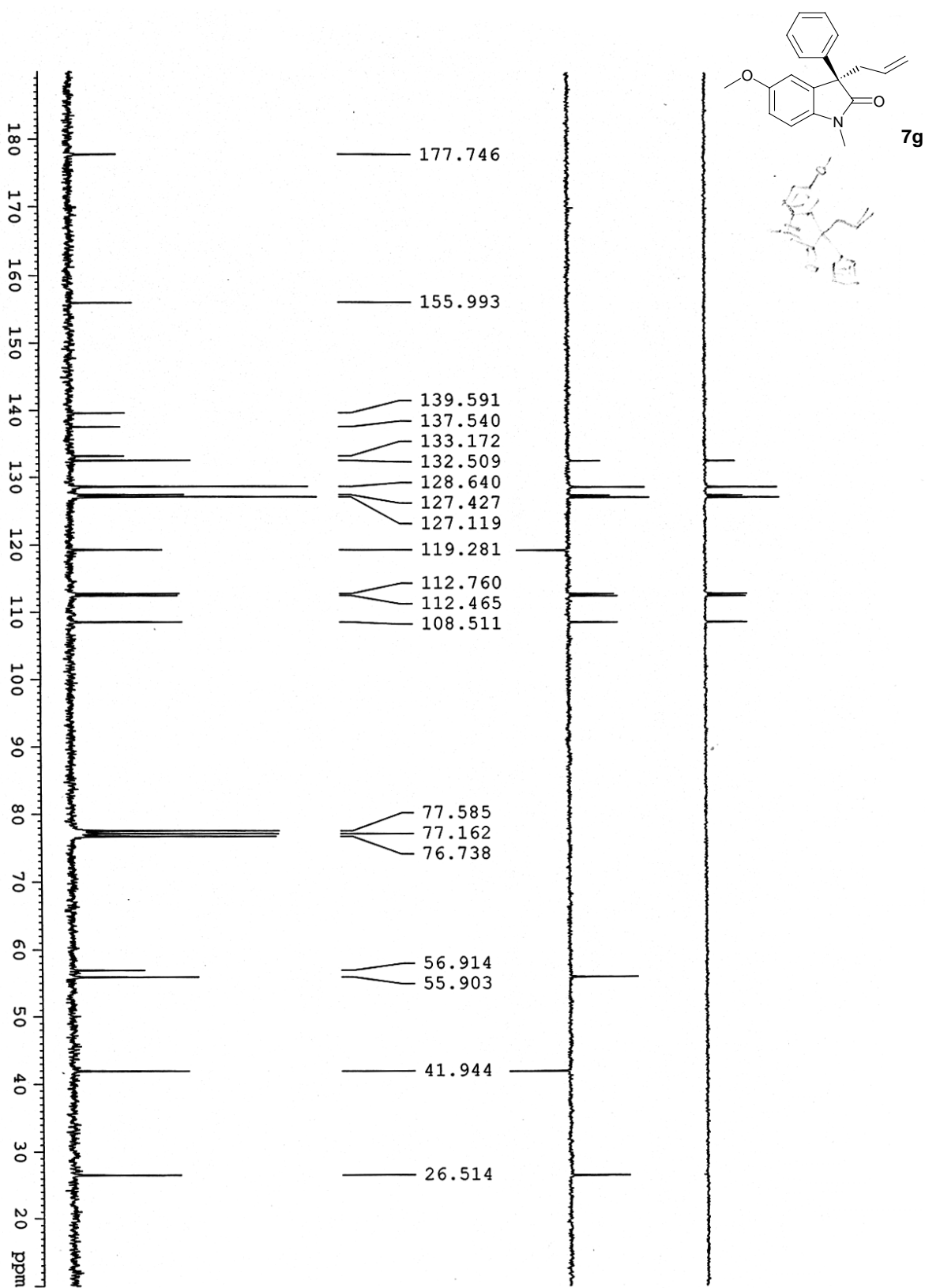


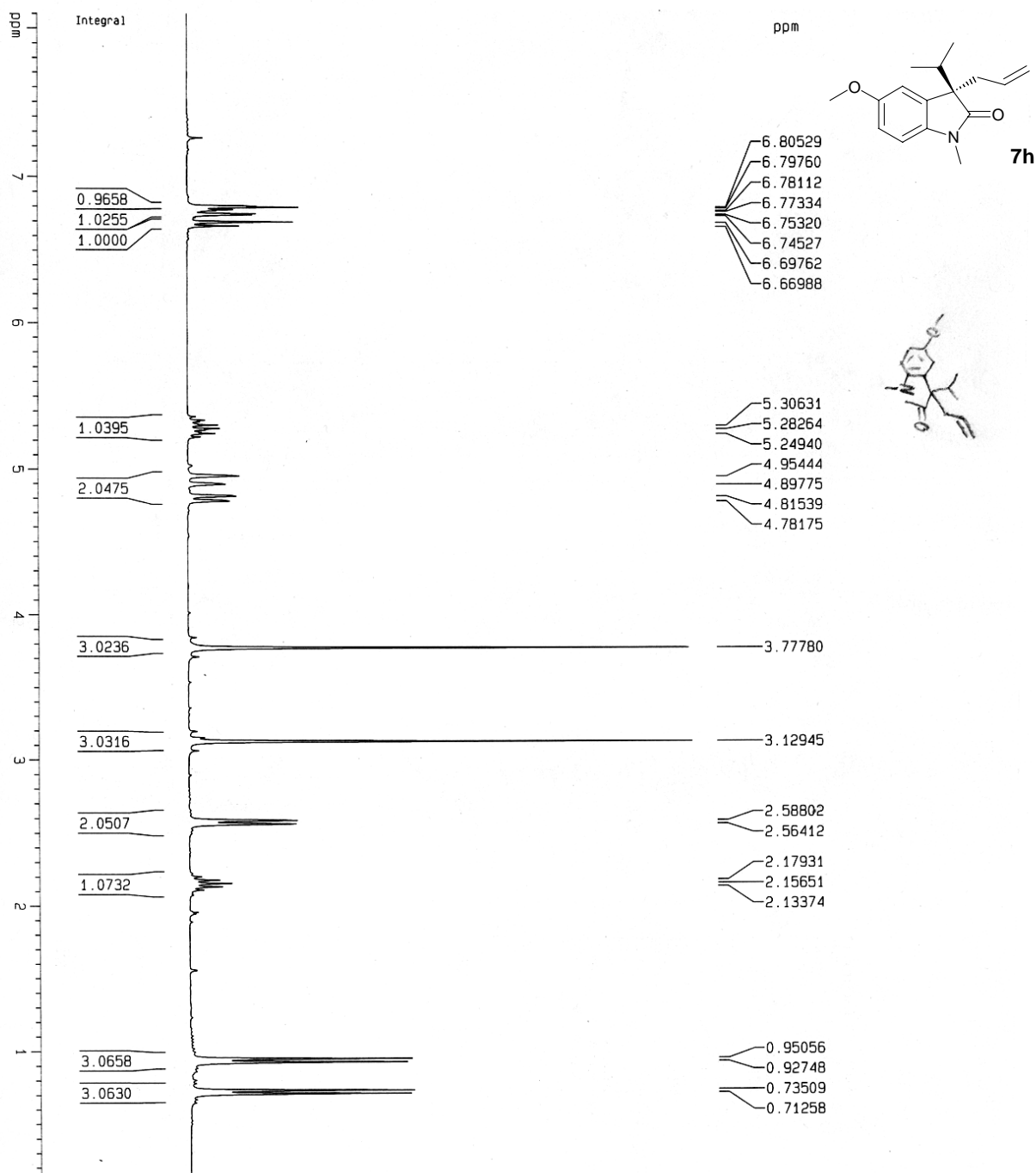












Current Data Parameters

NAME	277
EXPNO	470
PROCNO	1

F2 - Acquisition Parameters

Date_	20100202
Time	17.41
INSTRUM	av300
PROBHD	5 mm GNP 1H/13
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	1
SWH	4789.272 Hz
FIDRES	0.073078 Hz
AQ	6.842086 sec
RG	80.6
DW	104.400 usec
DE	6.00 usec
TE	296.0 K
D1	1.00000000 sec
MCREST	0.00000000 sec
MCNMR	0.01500000 sec

===== CHANNEL f1 =====

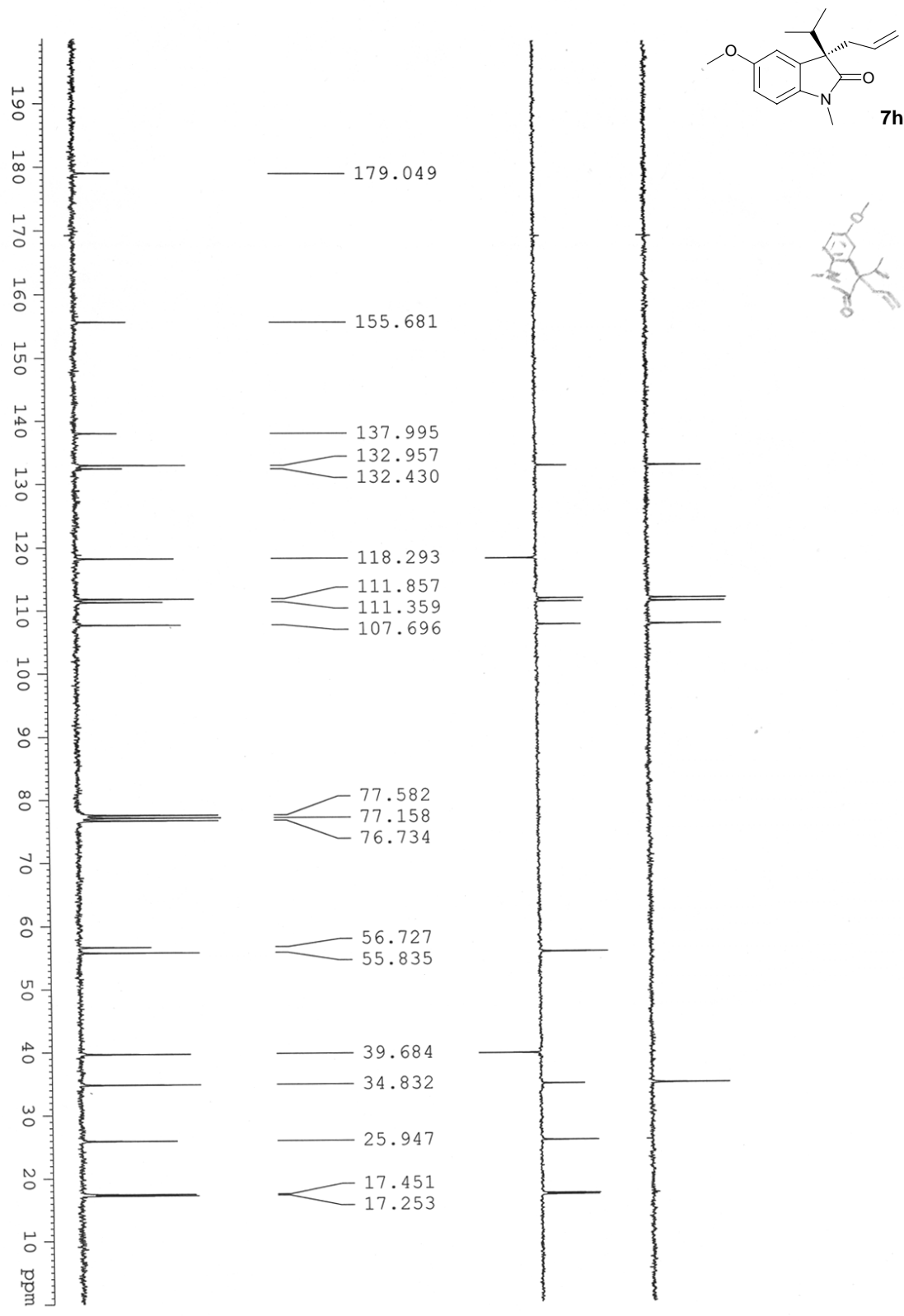
NUC1	1H
P1	8.60 usec
PL1	-2.00 dB
SFO1	300.1321009 MHz

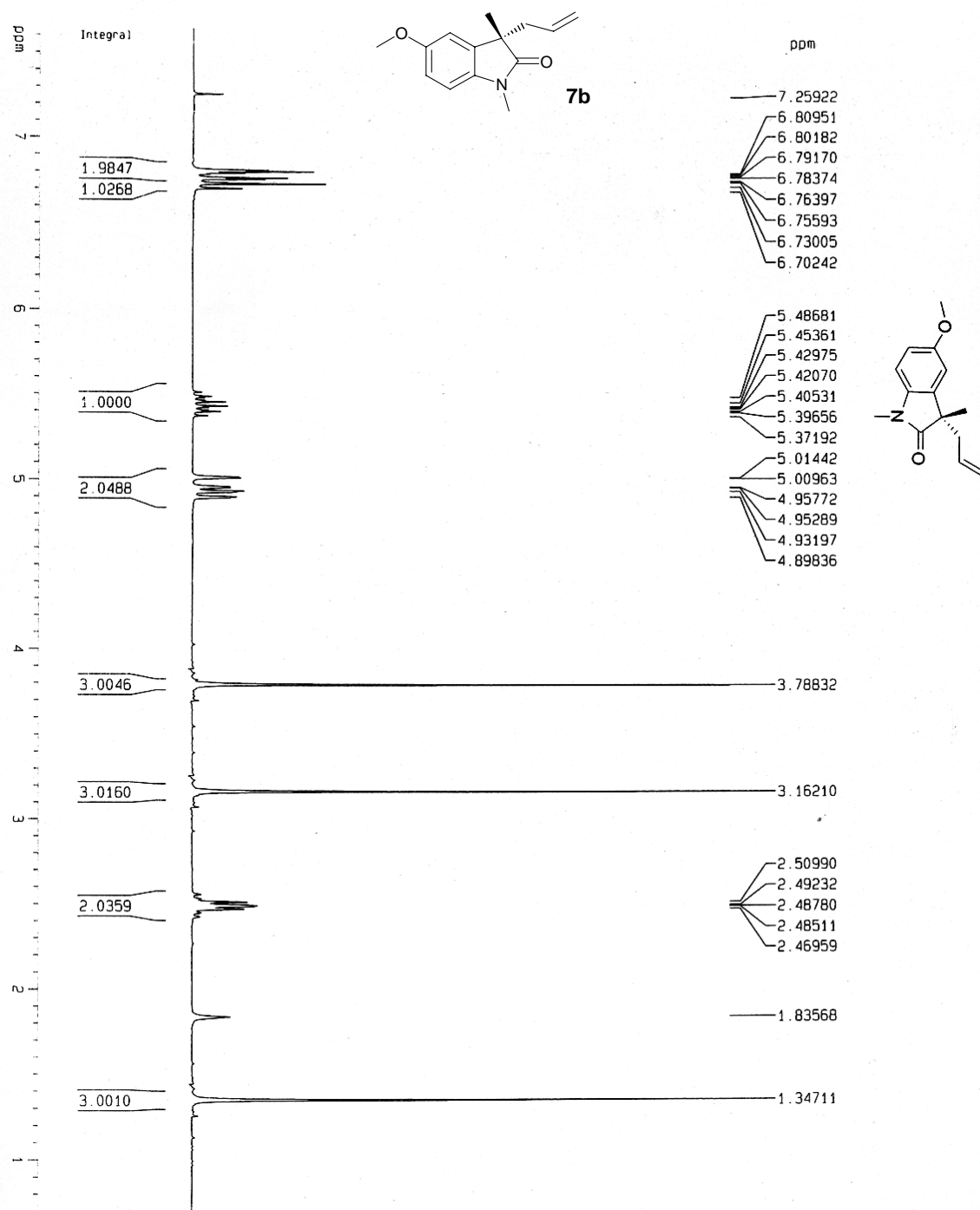
F2 - Processing parameters

SI	32768
SF	300.1300059 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

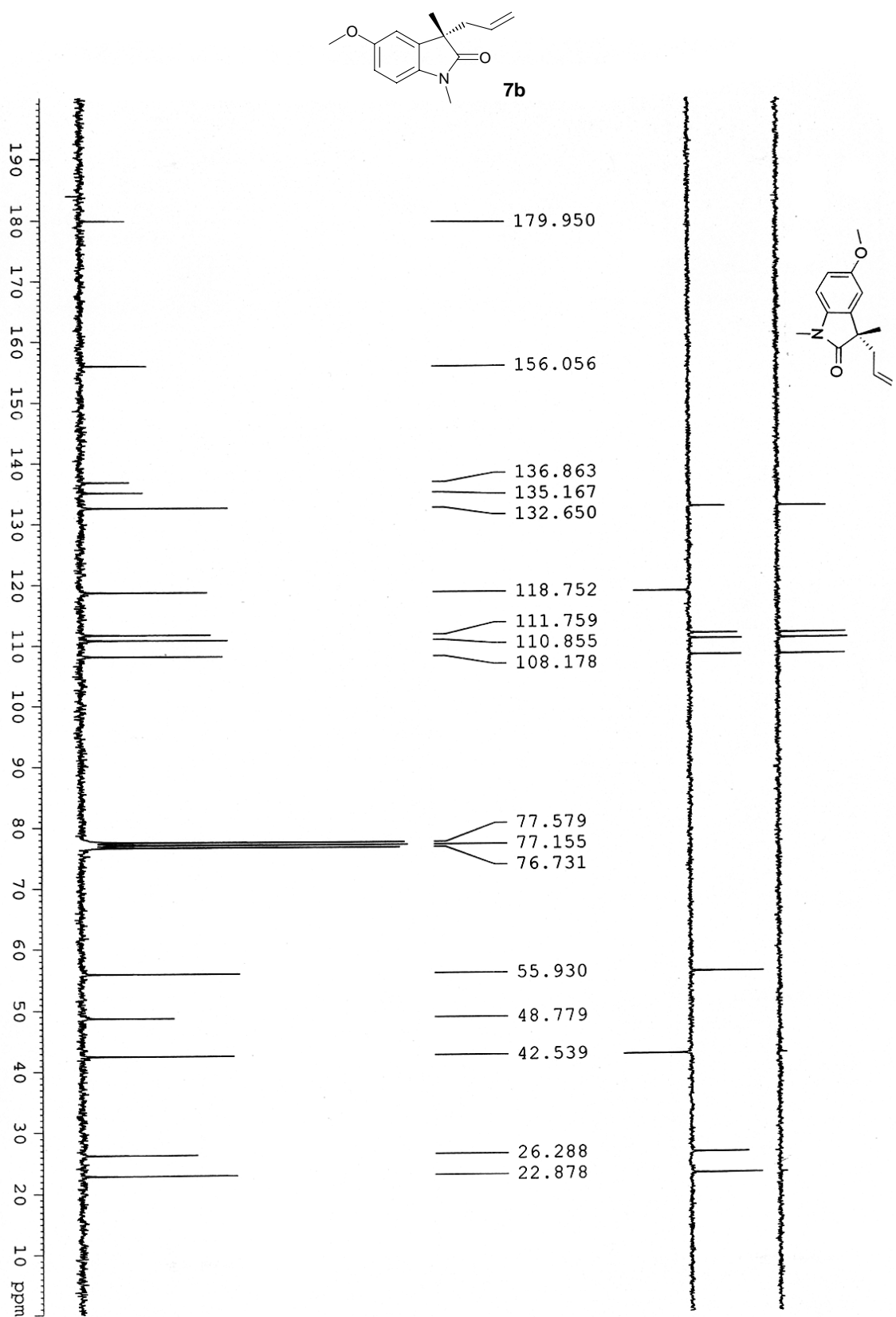
1D NMR plot parameters

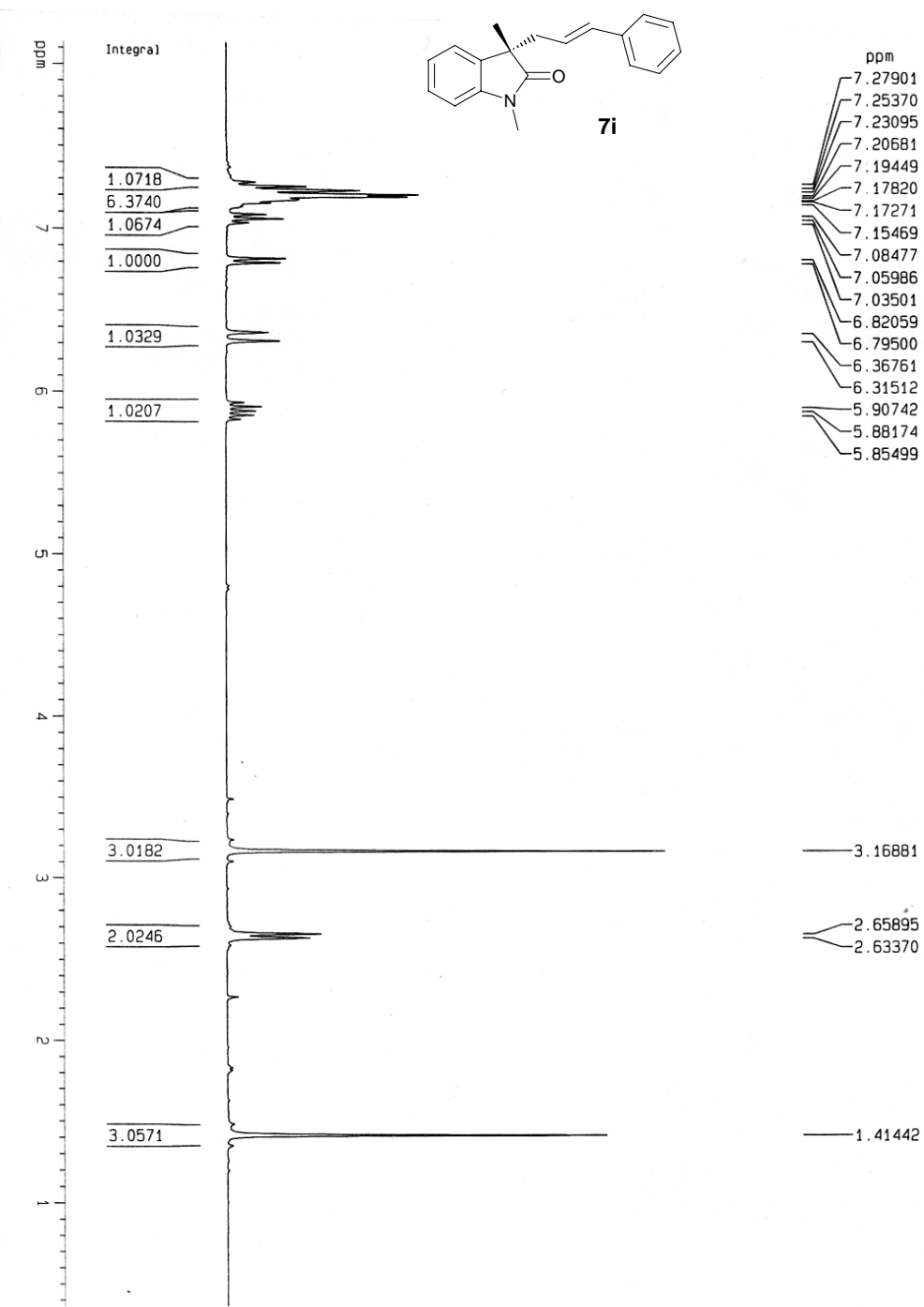
CX	23.00 cm
CY	10.00 cm
F1P	8.108 ppm
F1	2433.39 Hz
F2P	0.155 ppm
F2	46.63 Hz
PPMCM	0.34576 ppm/cm
HZCM	103.77251 Hz/cm





Current Data Parameters
NAME ZYY
EXPNO 214
PROCNO 1
F2 - Acquisition Parameters
Date_ 20081119
Time 9.19
INSTRUM 5 mm QNP 1H/13
PROBHD 5 mm QNP 1H/13
PULPROG zgpg30
TO 2930
SOLVENT CDCl3
NS 16
DS 1
SWH 4789.272 Hz
FIDRES 0.073078 Hz
AQ 6.8420086 sec
RG 161.3
DM 104.400 usec
DE 6.00 usec
TE 295.8 K
C1 1.00000000 sec
WCREST 0.00000000 sec
WCMR 0.01500000 sec
===== CHANNEL f1 =====
NUC1 1H
P1 8.60 usec
PL1 -2.00 dB
SFO1 300.1321009 MHz
F2 - Processing parameters
SI 32768
SF 300.1300123 MHz
WDW EM
SSB 0
-B 0.30 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 23.00 cm
CY 12.50 cm
F1P 7.645 ppm
F1 2294.55 Hz
F2P 0.686 ppm
F2 205.86 Hz
PCPCW 0.30258 ppm/cm
FZCM 90.81250 Hz/cm





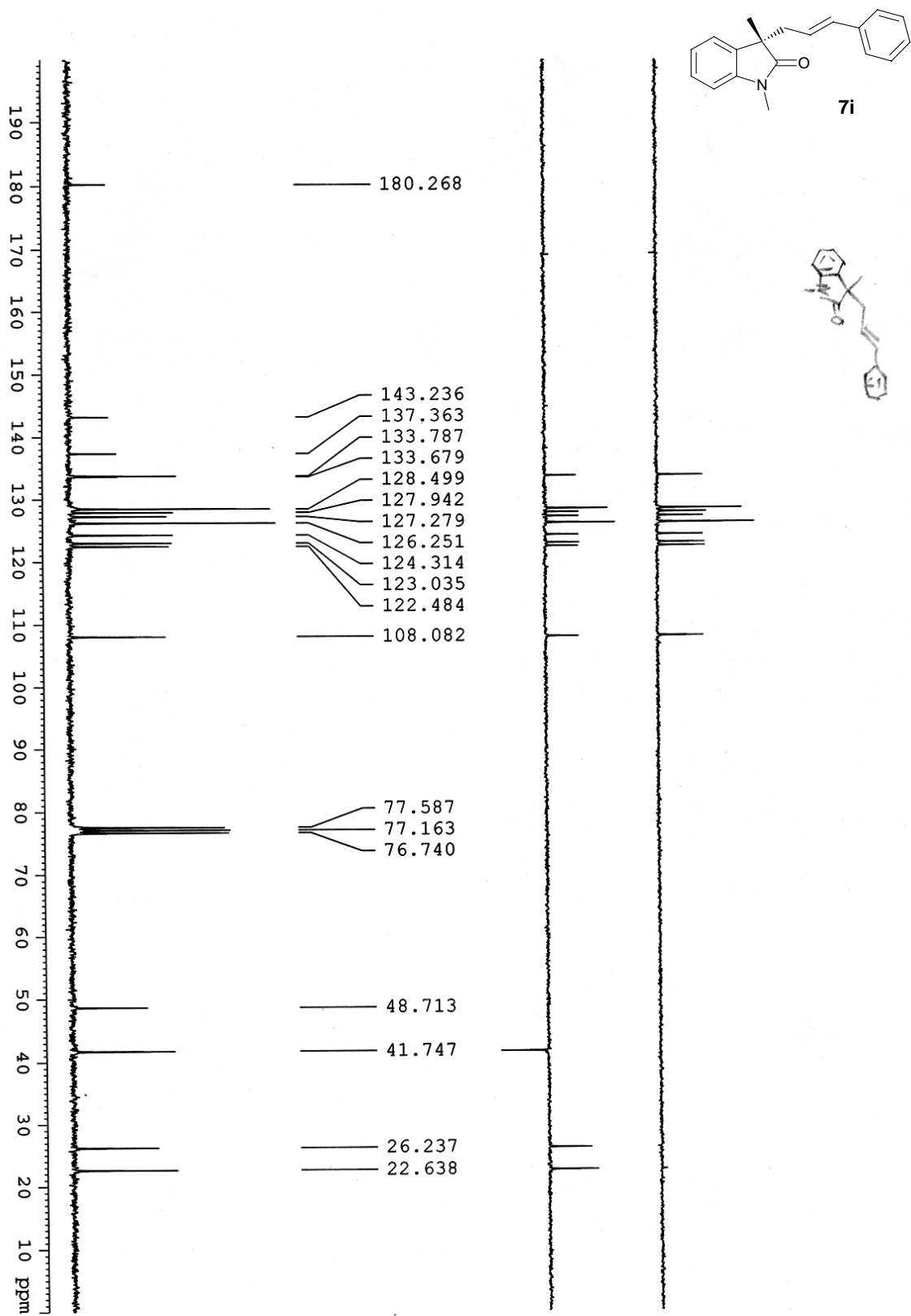
Current Data Parameters
NAME: zyy
EXPNO: 517
PROCNO: 1

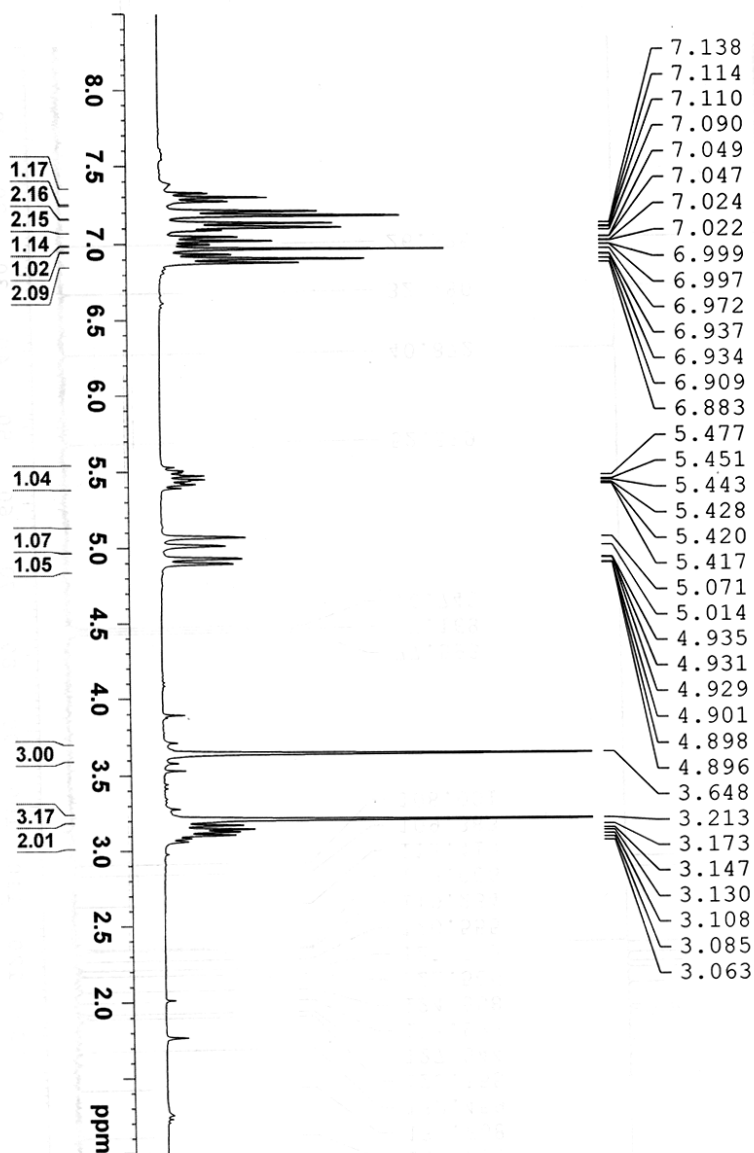
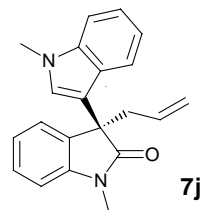
F2 - Acquisition Parameters
Date_: 20100224
Time: 9.37
INSTRUM: av300
PROBHD: 5 mm QNP 1H/13
PULPROG: zg30
TD: 65536
SOLVENT: CDCl3
NS: 16
DS: 1
SWH: 4789.272 Hz
FIDRES: 0.073078 Hz
AQ: 6.8420065 sec
RG: 114
DM: 104.400 usec
DE: 6.00 usec
TE: 295.4 K
D1: 1.00000000 sec
MCREST: 0.00000000 sec
MCNMRK: 0.01500000 sec

===== CHANNEL f1 =====
NUC1: 1H
P1: 8.60 usec
PL1: -2.00 dB
SF01: 300.1321009 MHz

F2 - Processing parameters
SI: 32768
SF: 300.1300123 MHz
WDW: EM
SSB: 0
LB: 0.30 Hz
GB: 0
PC: 1.00

1D NMR plot parameters
CX: 23.00 cm
CY: 8.00 cm
F1P: 8.139 ppm
F1: 2442.66 Hz
F2P: 0.361 ppm
F2: 108.35 Hz
PPMCM: 0.33816 ppm/cm
HZCM: 101.49178 Hz/cm





Current Data Parameters
NAME zyy
EXPNO 587
PROCNO 1

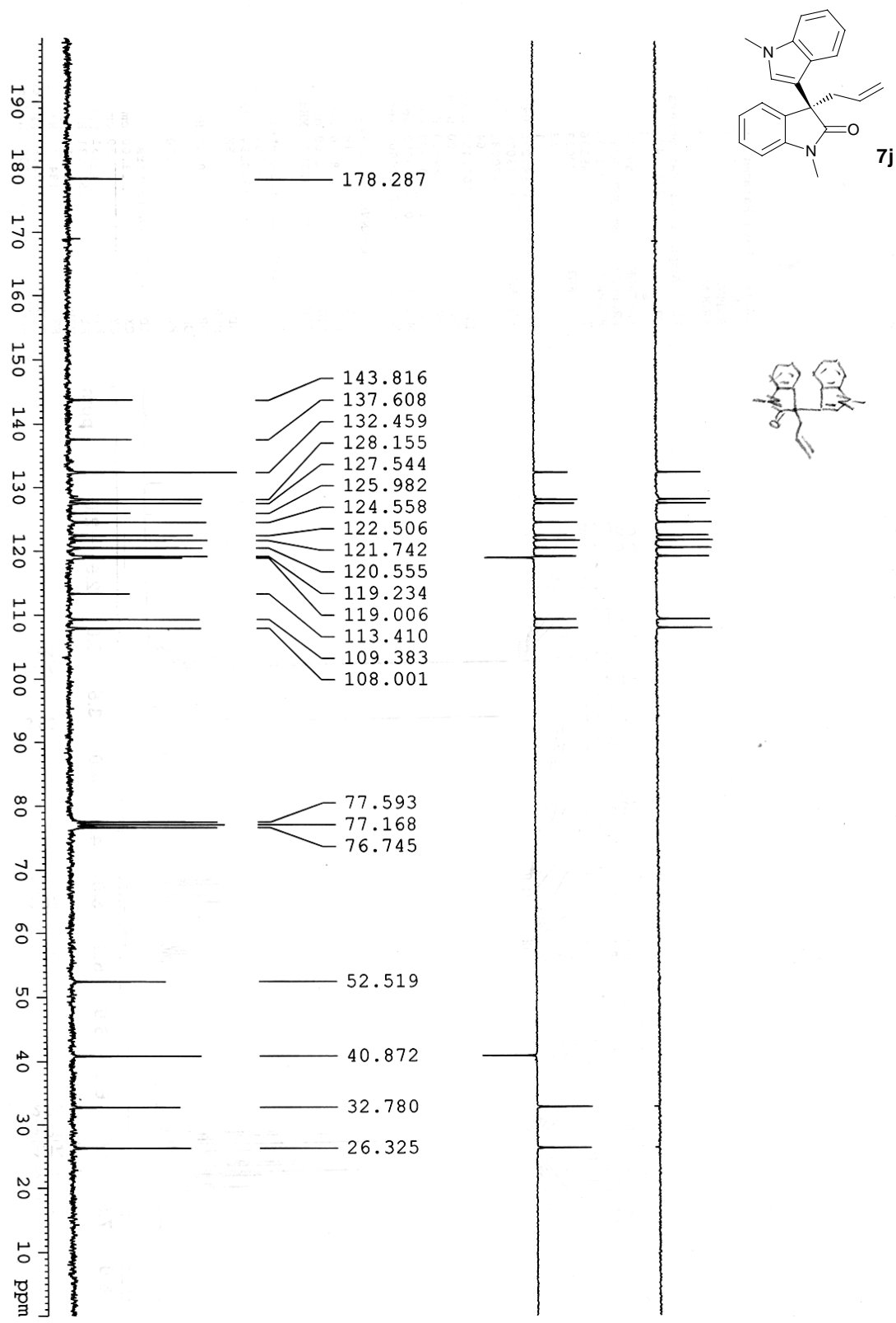
F2 - Acquisition Parameters
Date_ 20100401
Time_ 16.34
INSTRUM av300
PROBHD 5 mm QNP 1H/13
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 13
DS 1
SWH 4789.272 Hz
FIDRES 0.073078 Hz
AQ 6.8420086 sec
RG 64
RG 104.400 usec
DE 6.00 usec
TE 296.0 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCMRK 0.01500000 sec

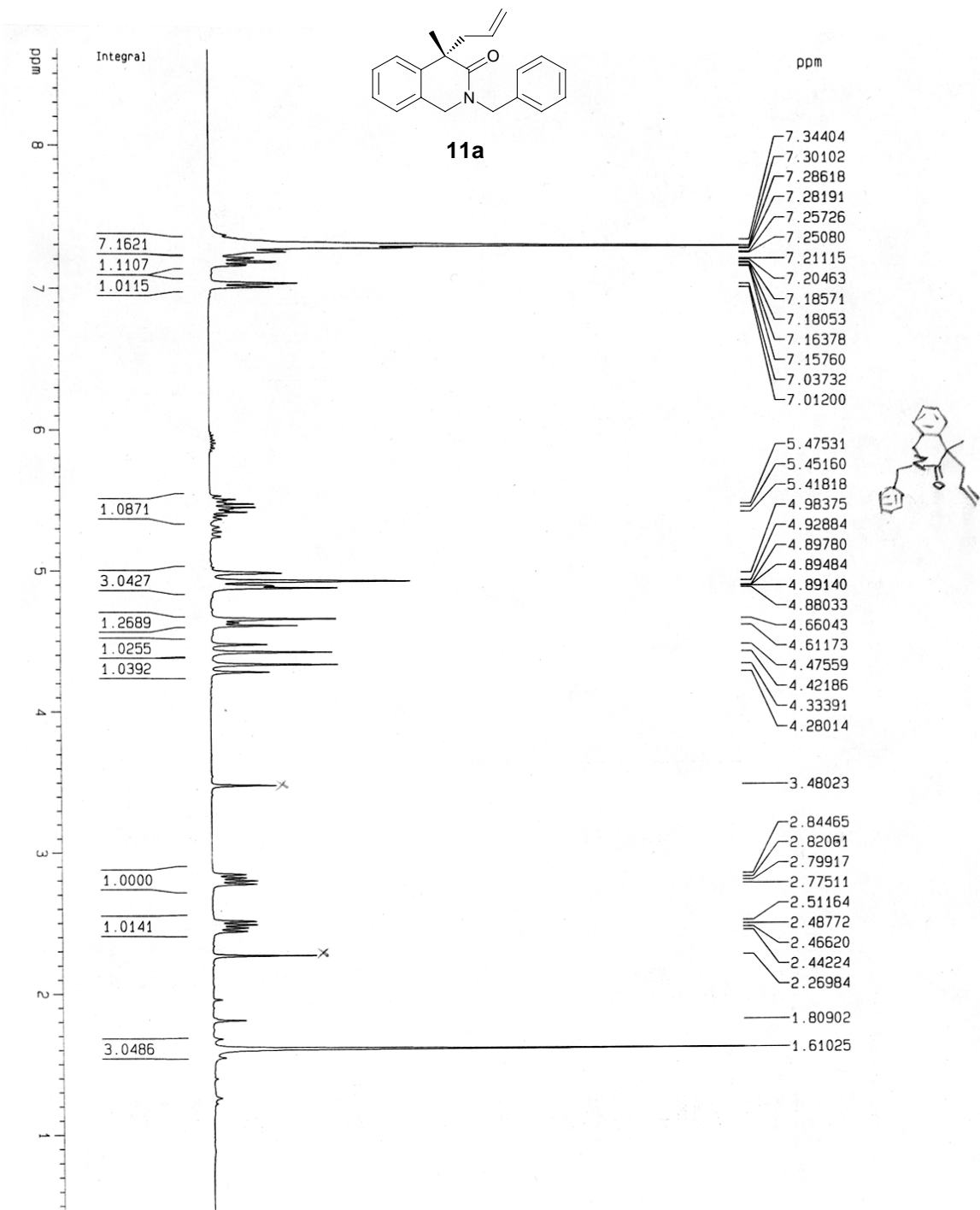
===== CHANNEL f1 =====
NUC1 1H
P1 8.60 usec
PL1 -2.00 dB
SFO1 300.1321009 MHz

F2 - Processing parameters
SI 32768
SF 300.1300294 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 23.00 cm
CY 12.50 cm
F1P 8.331 ppm
F1 2500.31 Hz
F2P 0.614 ppm
F2 184.43 Hz
PPVCM 0.33549 ppm/cm
HZCM 100.69063 Hz/cm







Current Data Parameters

NAME	zyy
EXPNO	551
PROCNO	1

F2 - Acquisition Parameters

Date_	20100315
Time	11.09
INSTRUM	av300
PROBHD	5 mm QNP 1H/13
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	1
SWH	4789.272 Hz
FIDRES	0.073078 Hz
AQ	6.842086 sec
RG	128
DM	104.400 usec
DE	6.00 usec
TE	295.7 K
D1	1.0000000 sec
RGESST	0.0000000 sec
RGESST	0.0150000 sec

===== CHANNEL f1 =====

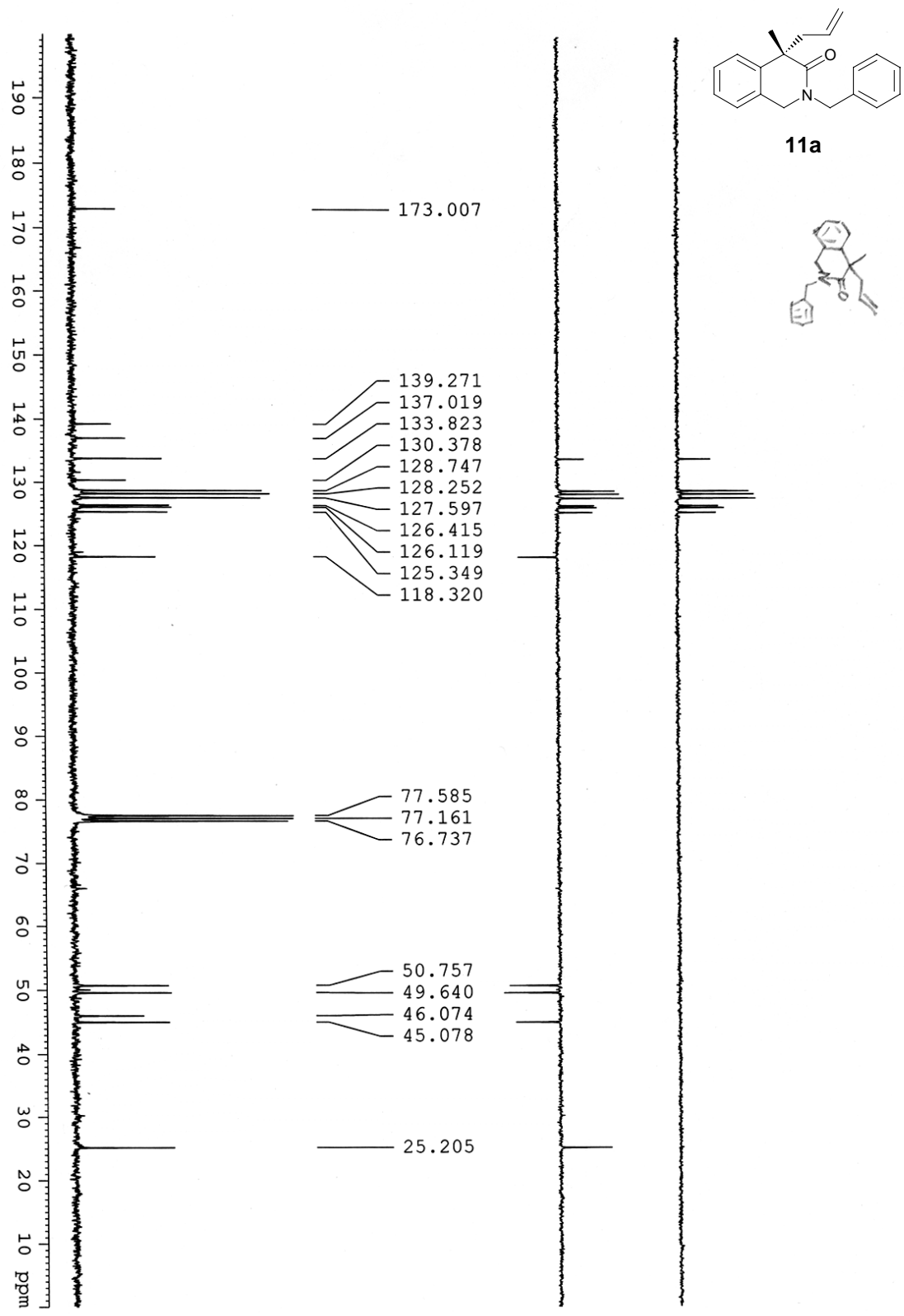
NUC1	1H
PT	8.60 usec
PL1	-2.00 dB
SFO1	300.1321009 MHz

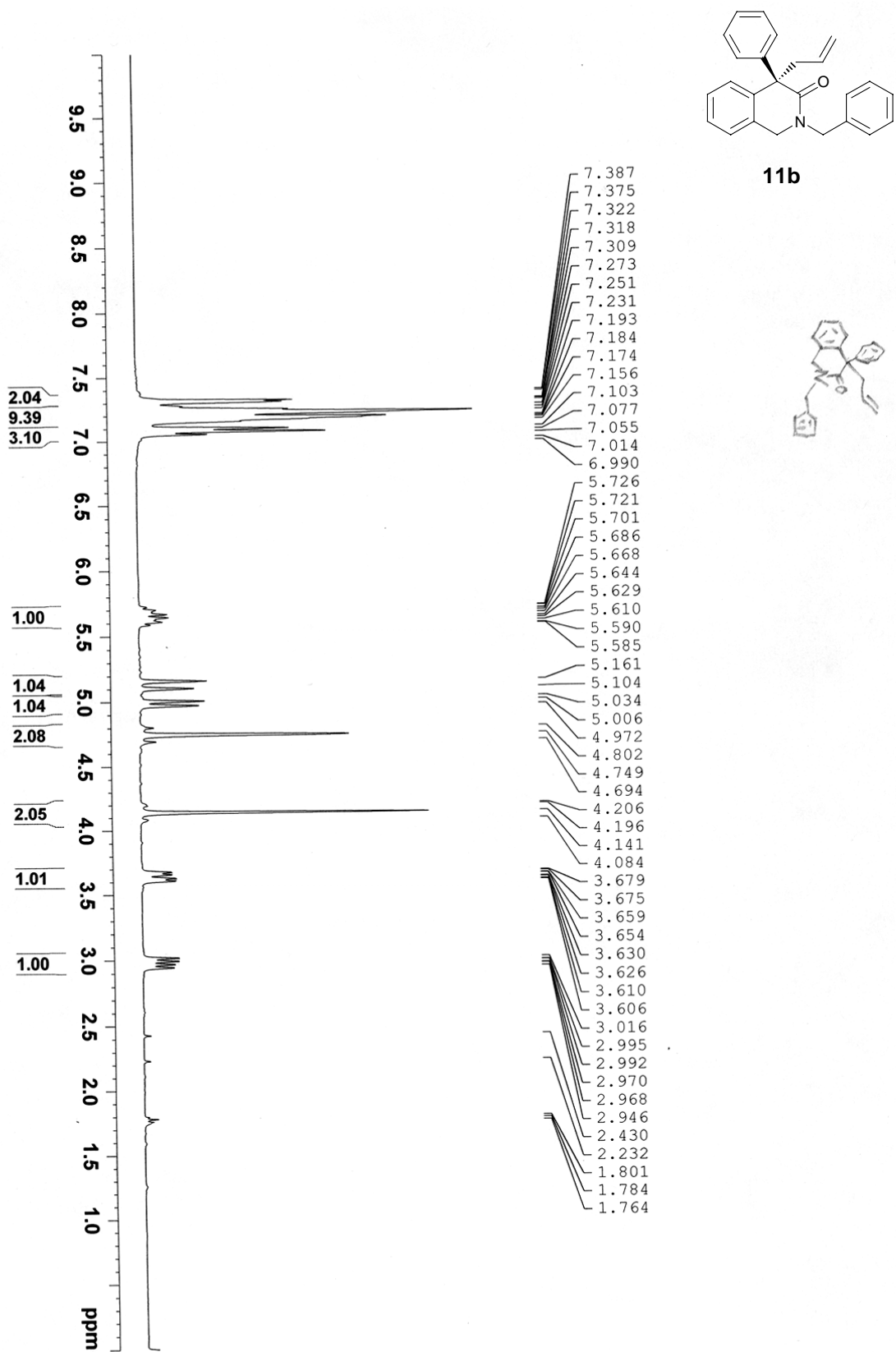
F2 - Processing parameters

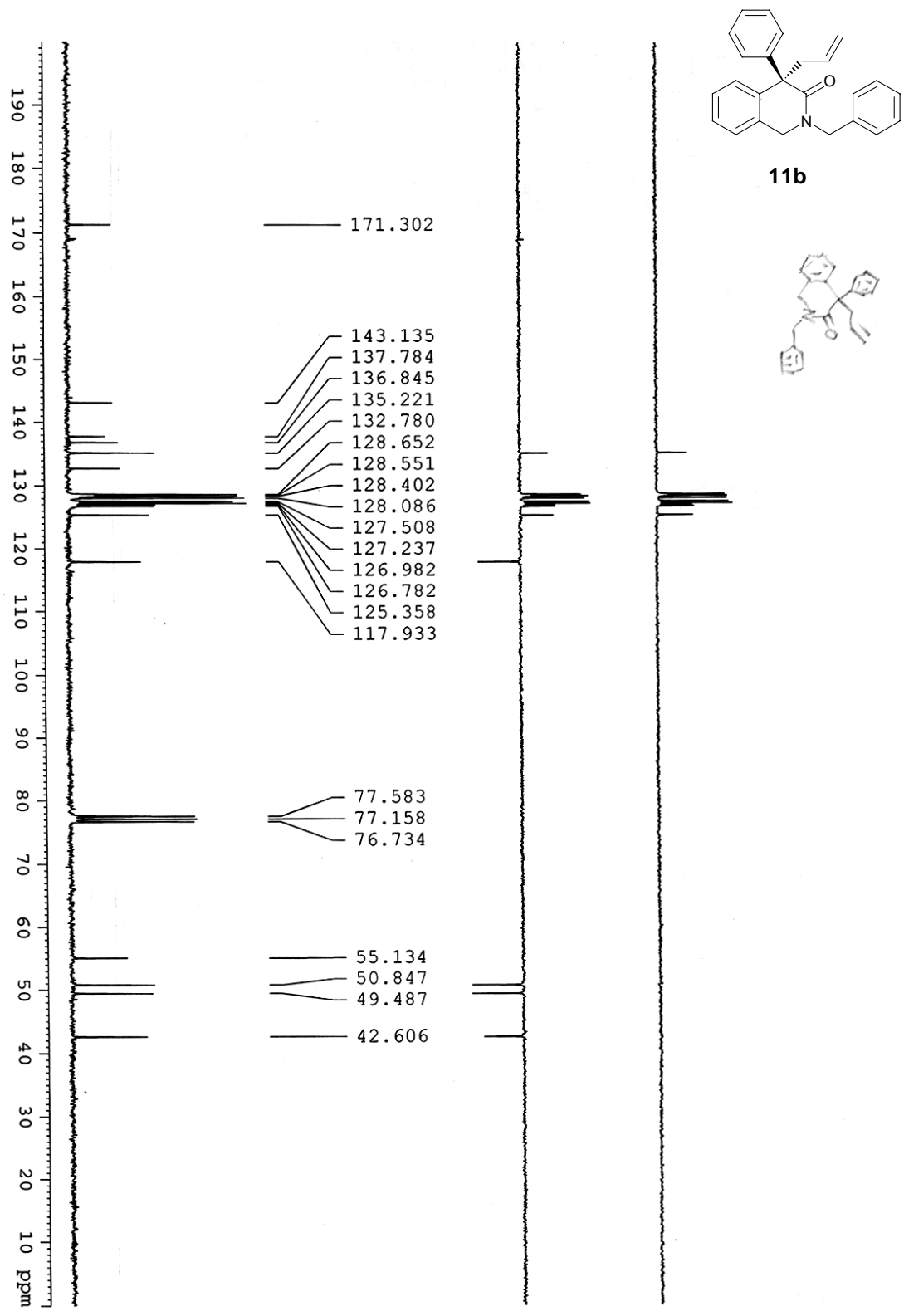
SI	32768
SF	300.130089 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

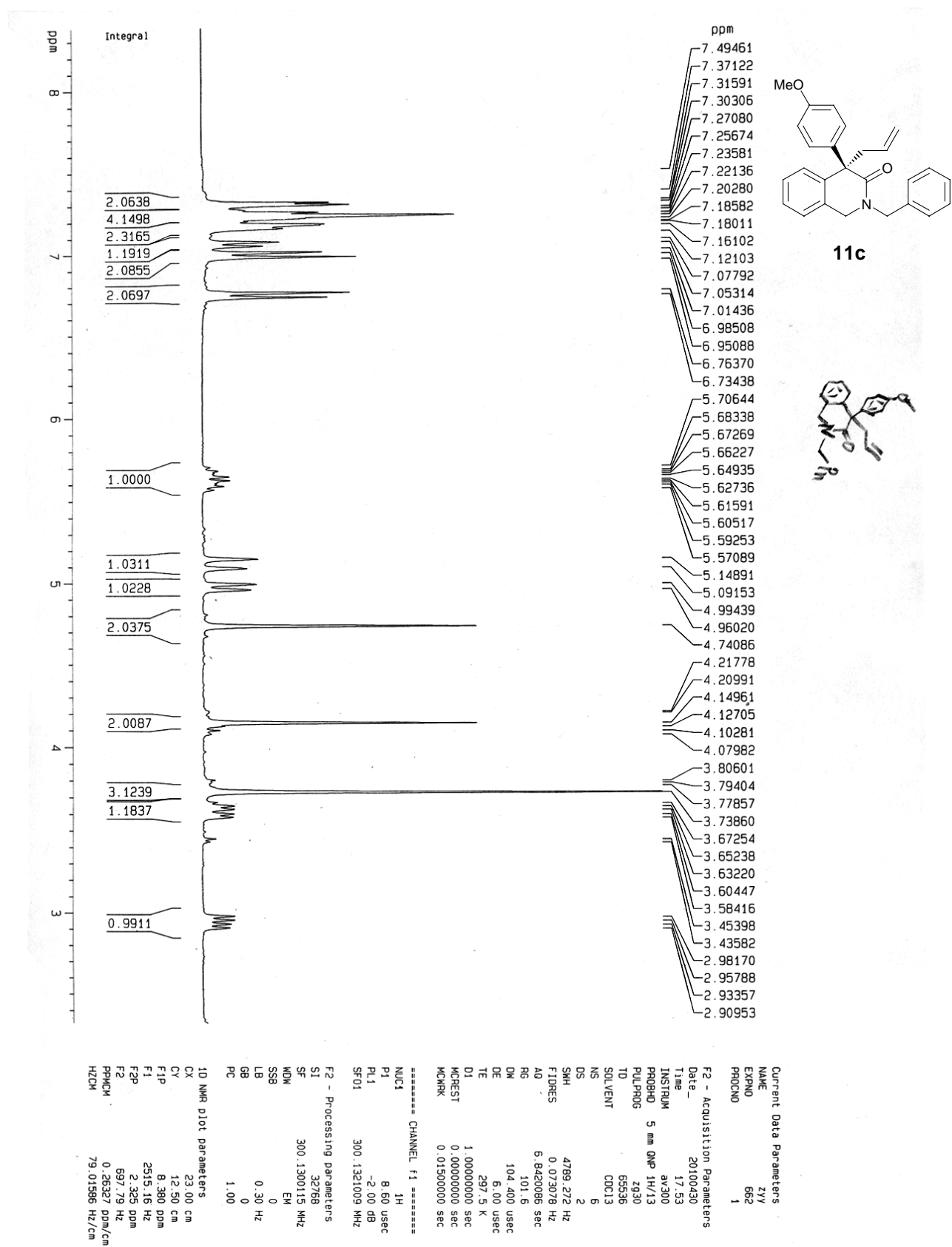
1D NMR plot parameters

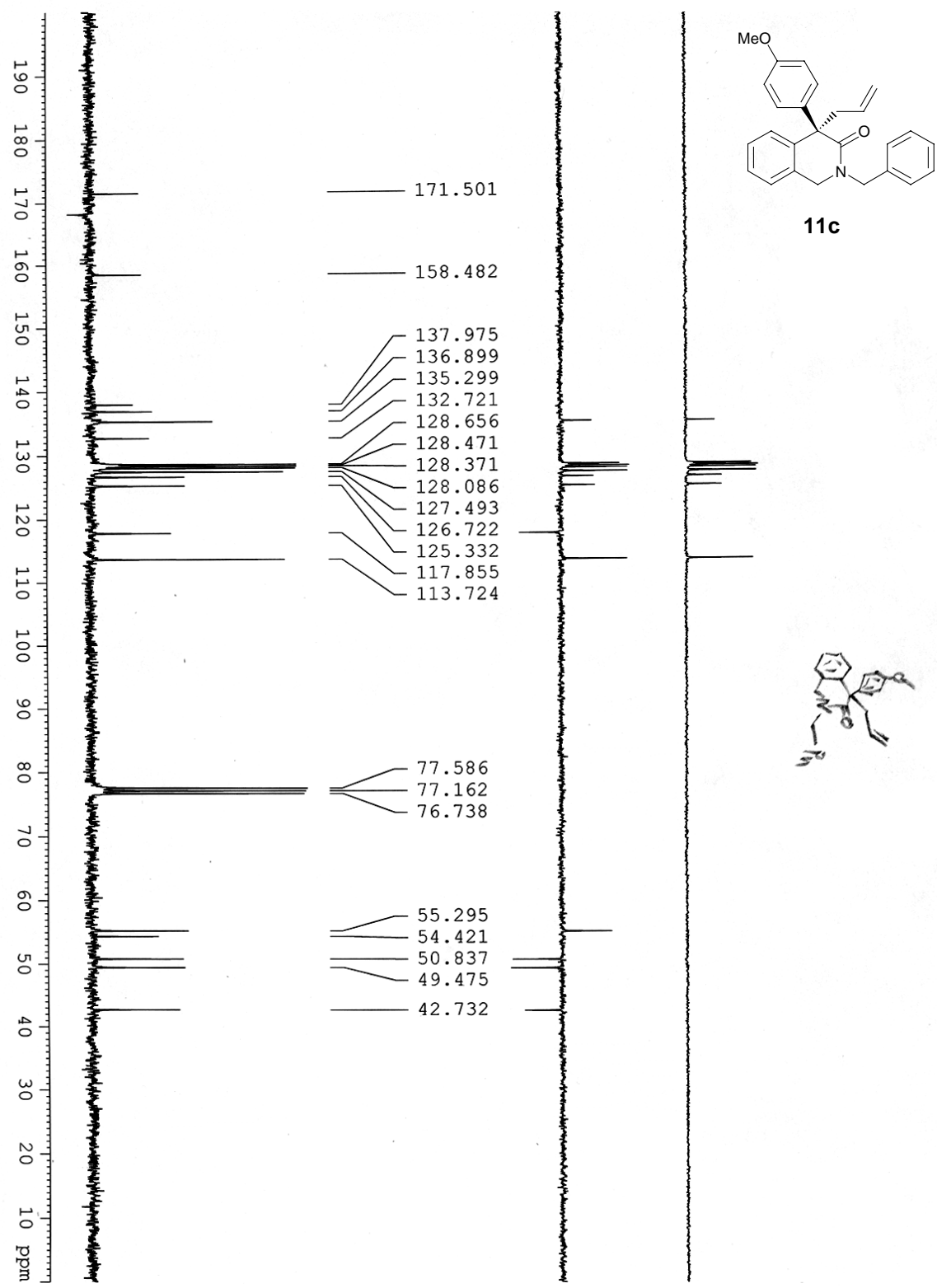
CK	23.00 cm
CV	12.50 cm
F1P	8.671 ppm
F1	2602.46 Hz
F2P	0.469 ppm
F2	140.74 Hz
PPMCM	0.35662 ppm/cm
HZCM	107.03134 Hz/cm

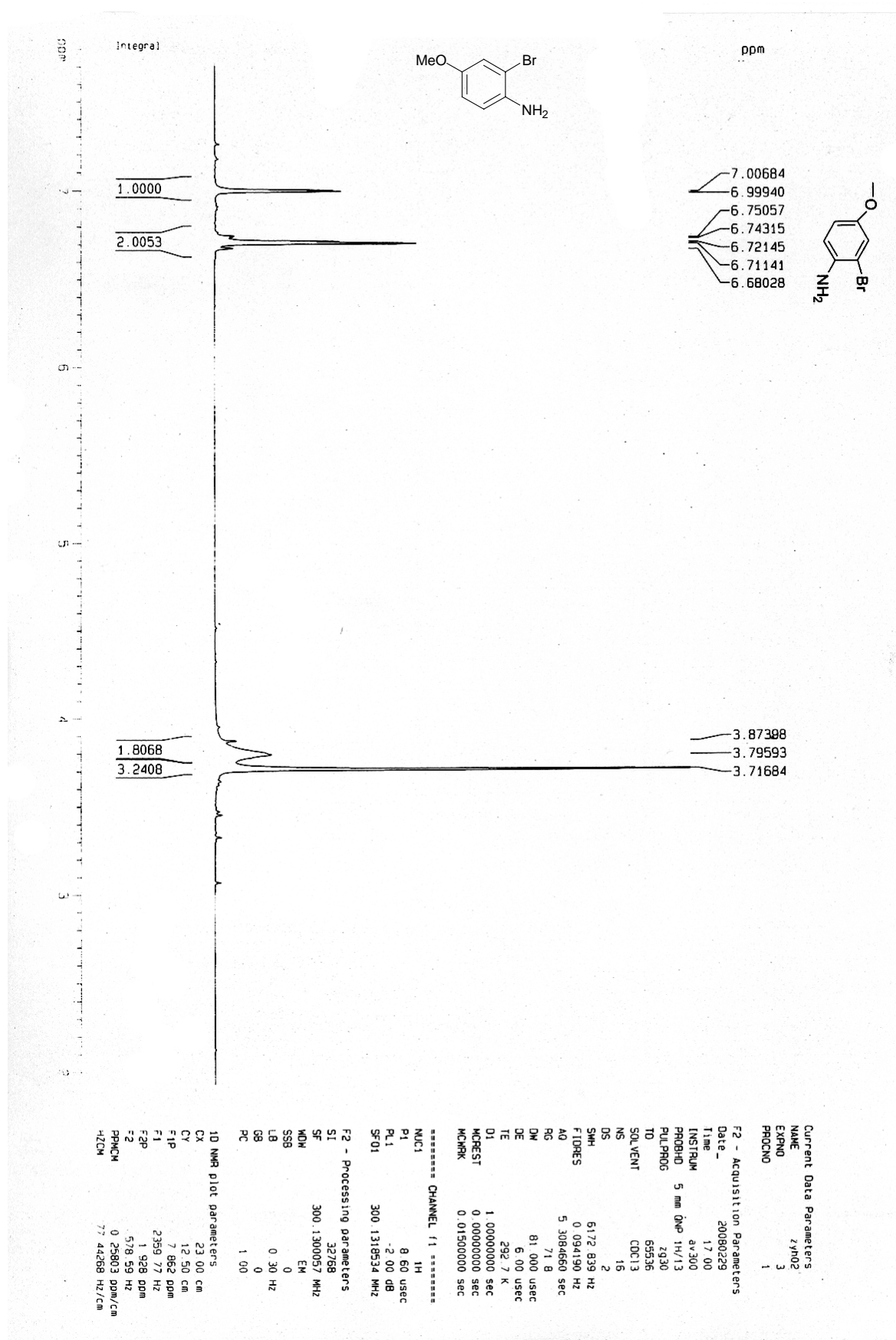


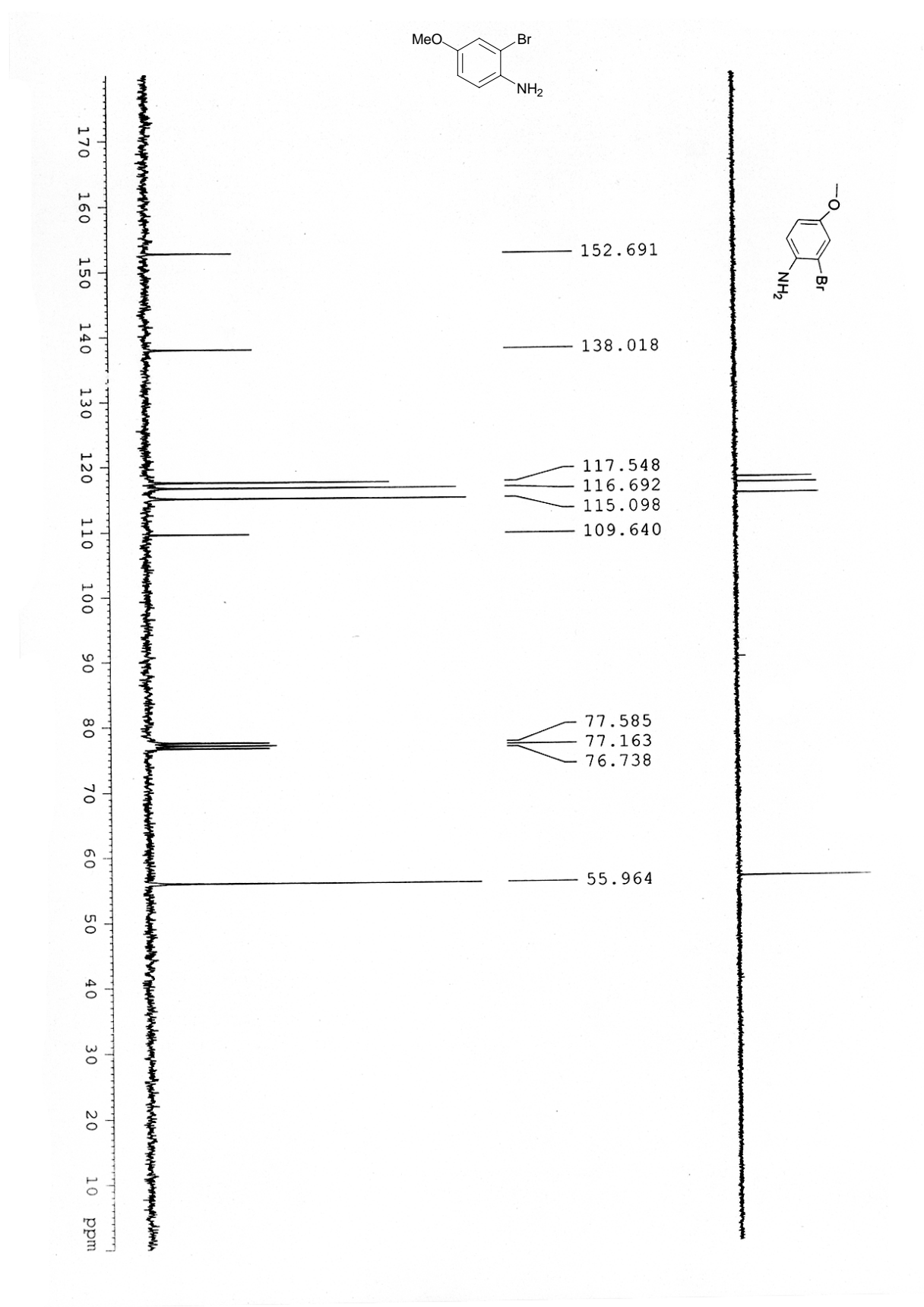


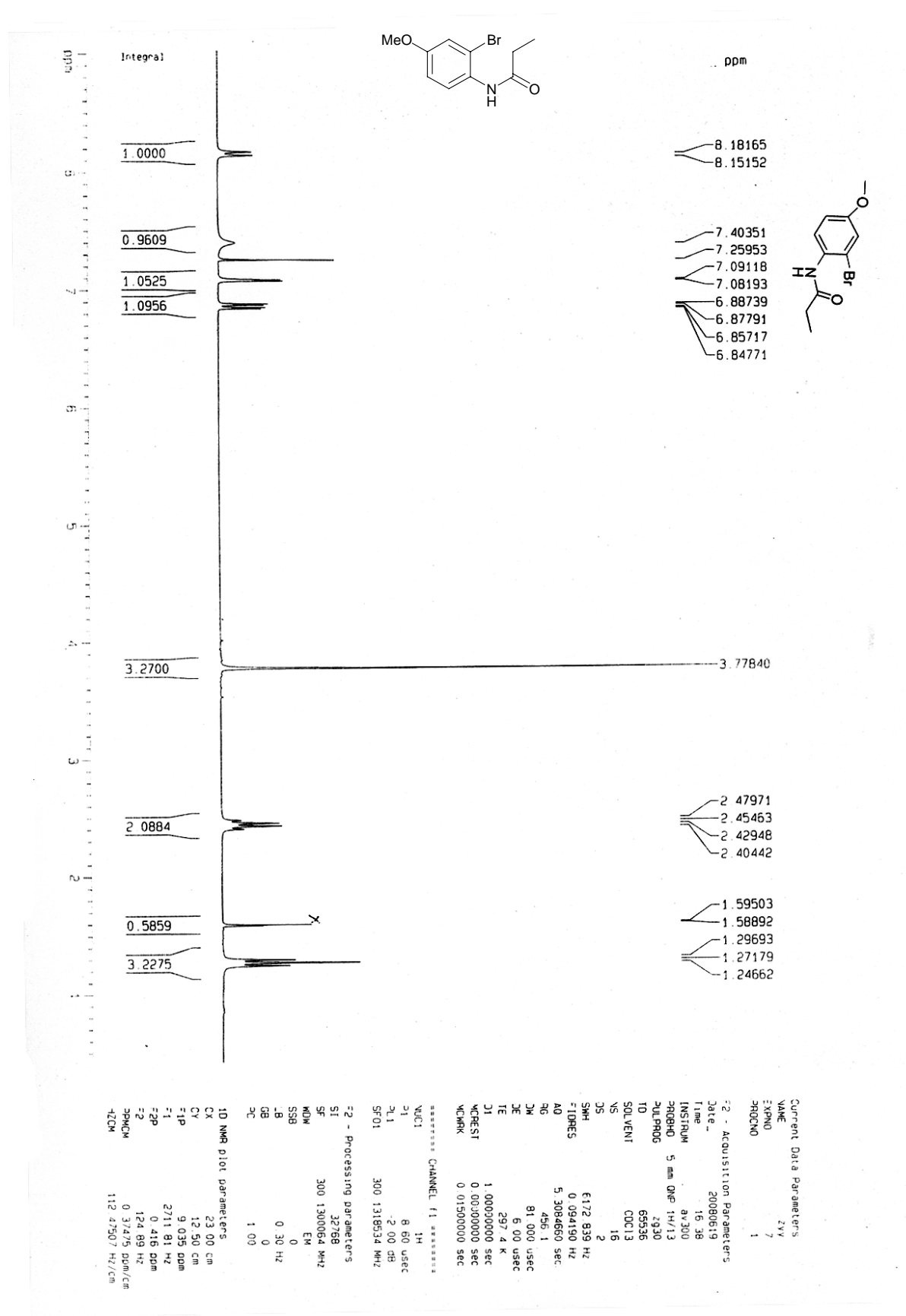


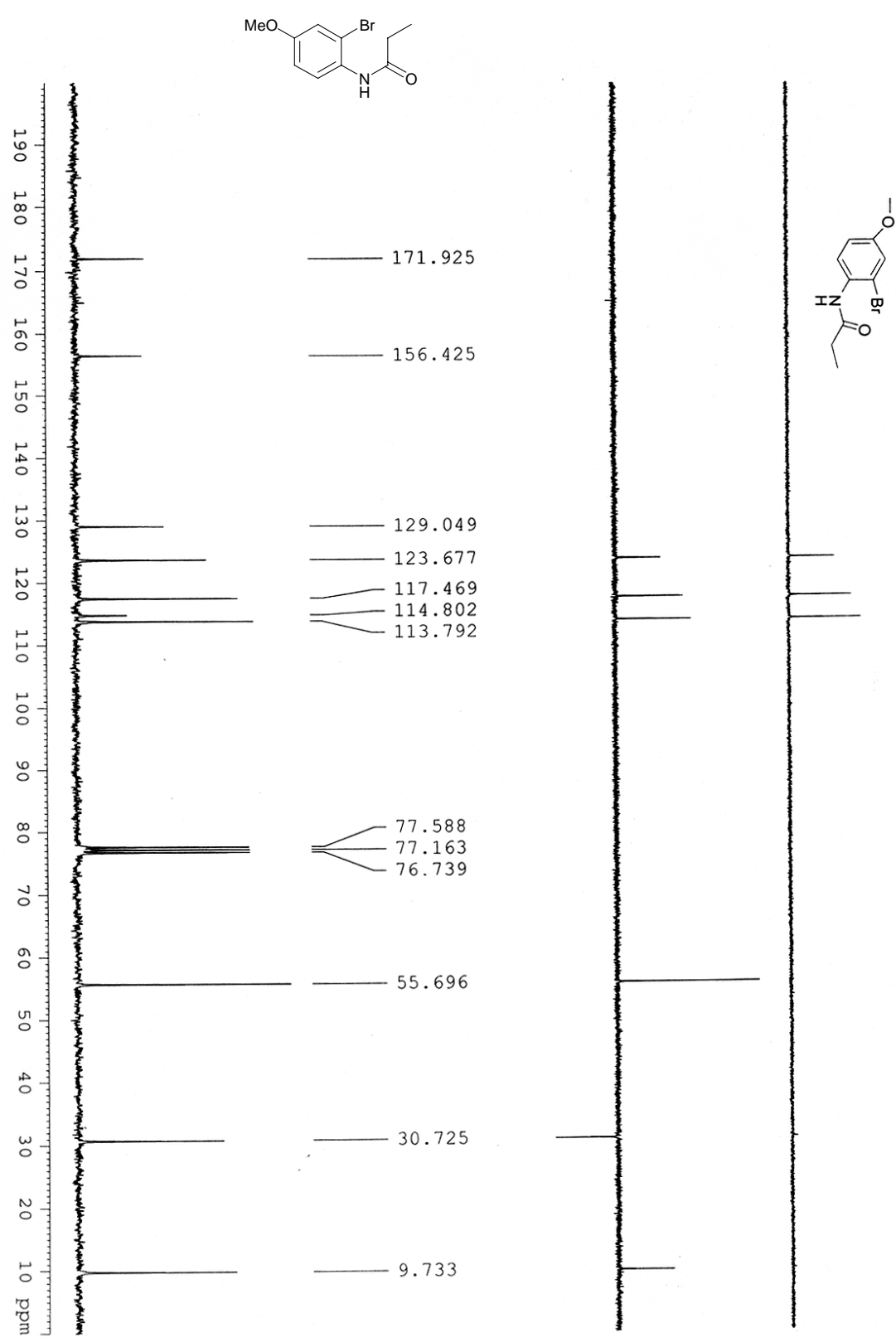


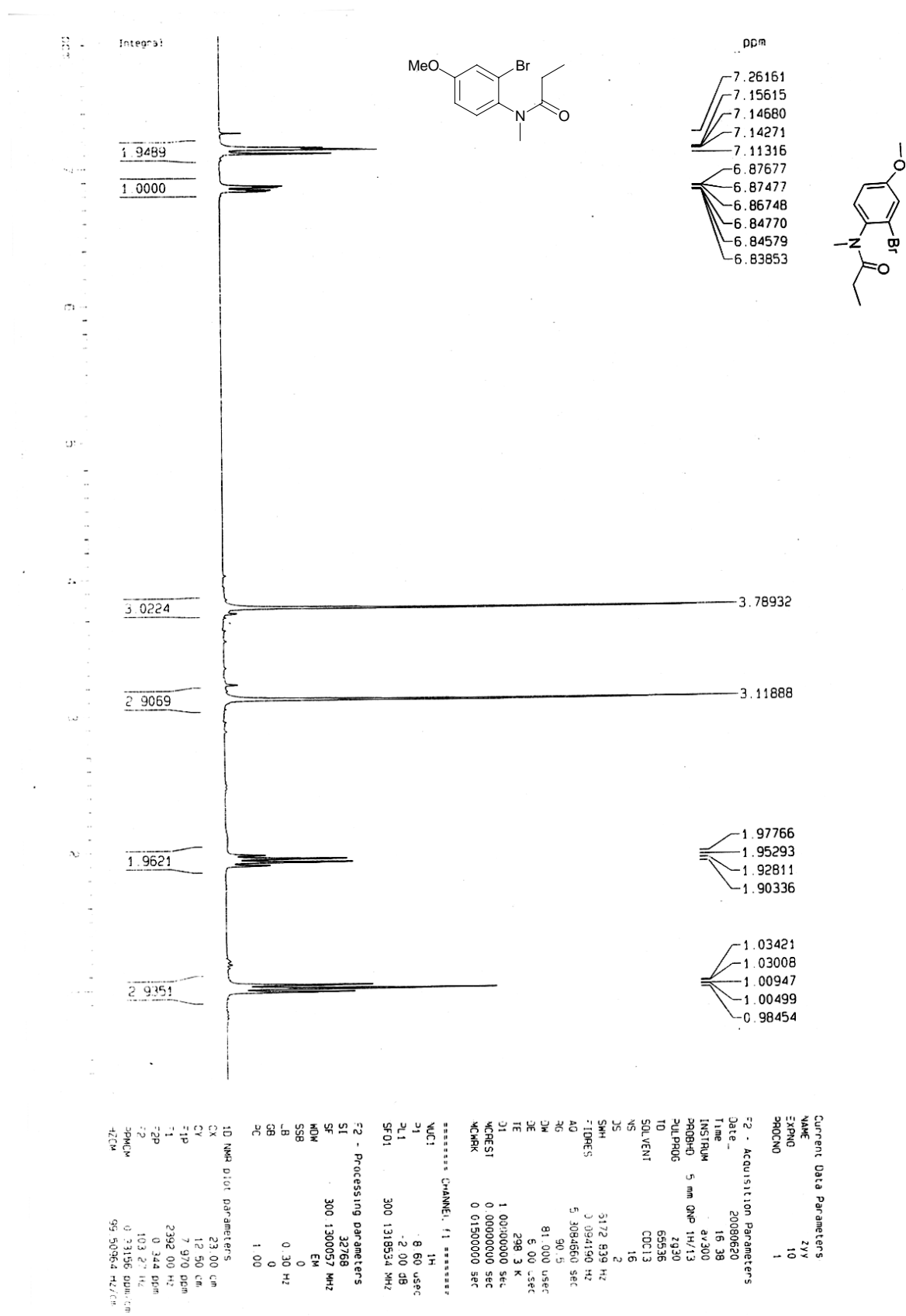


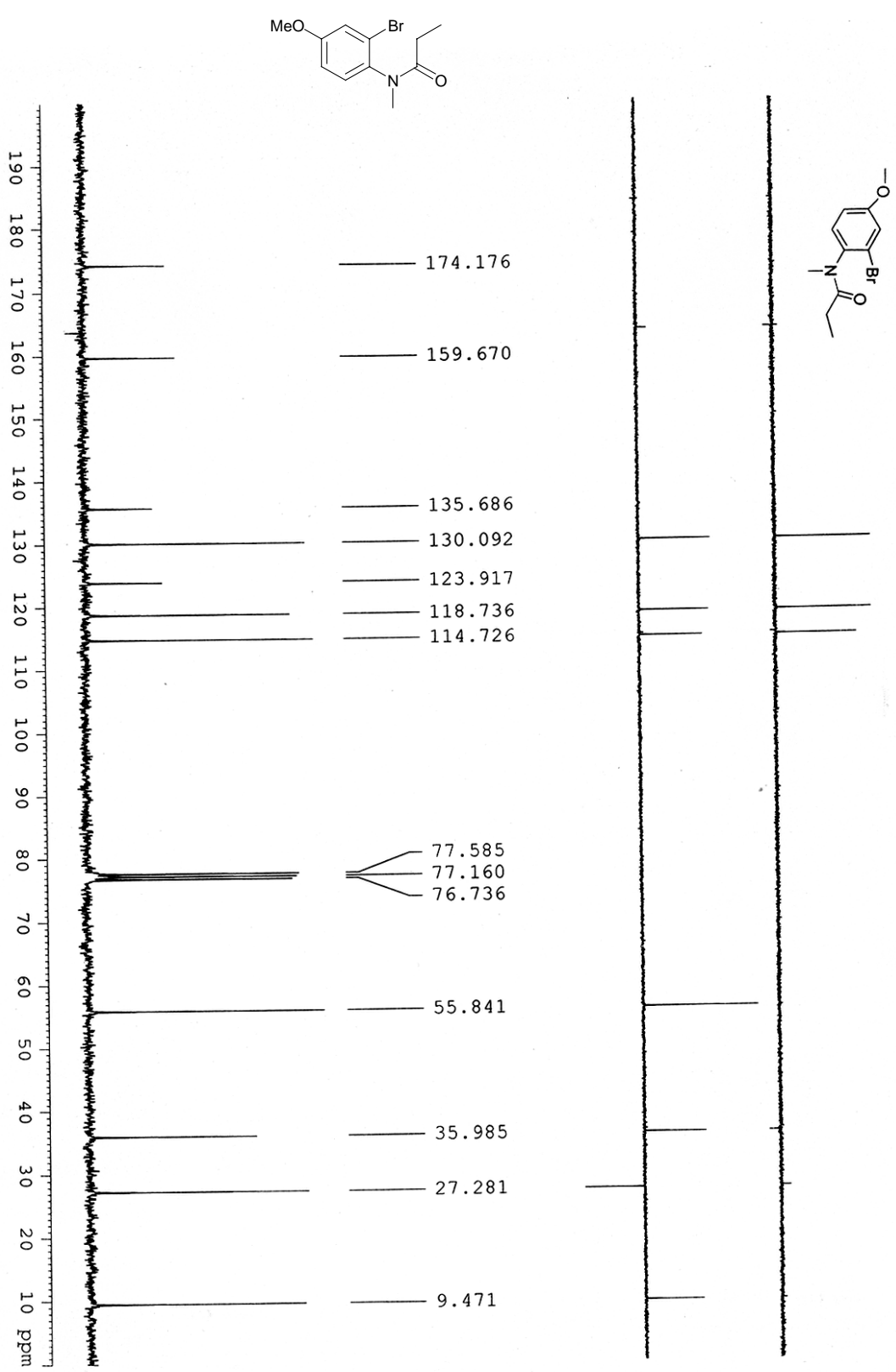


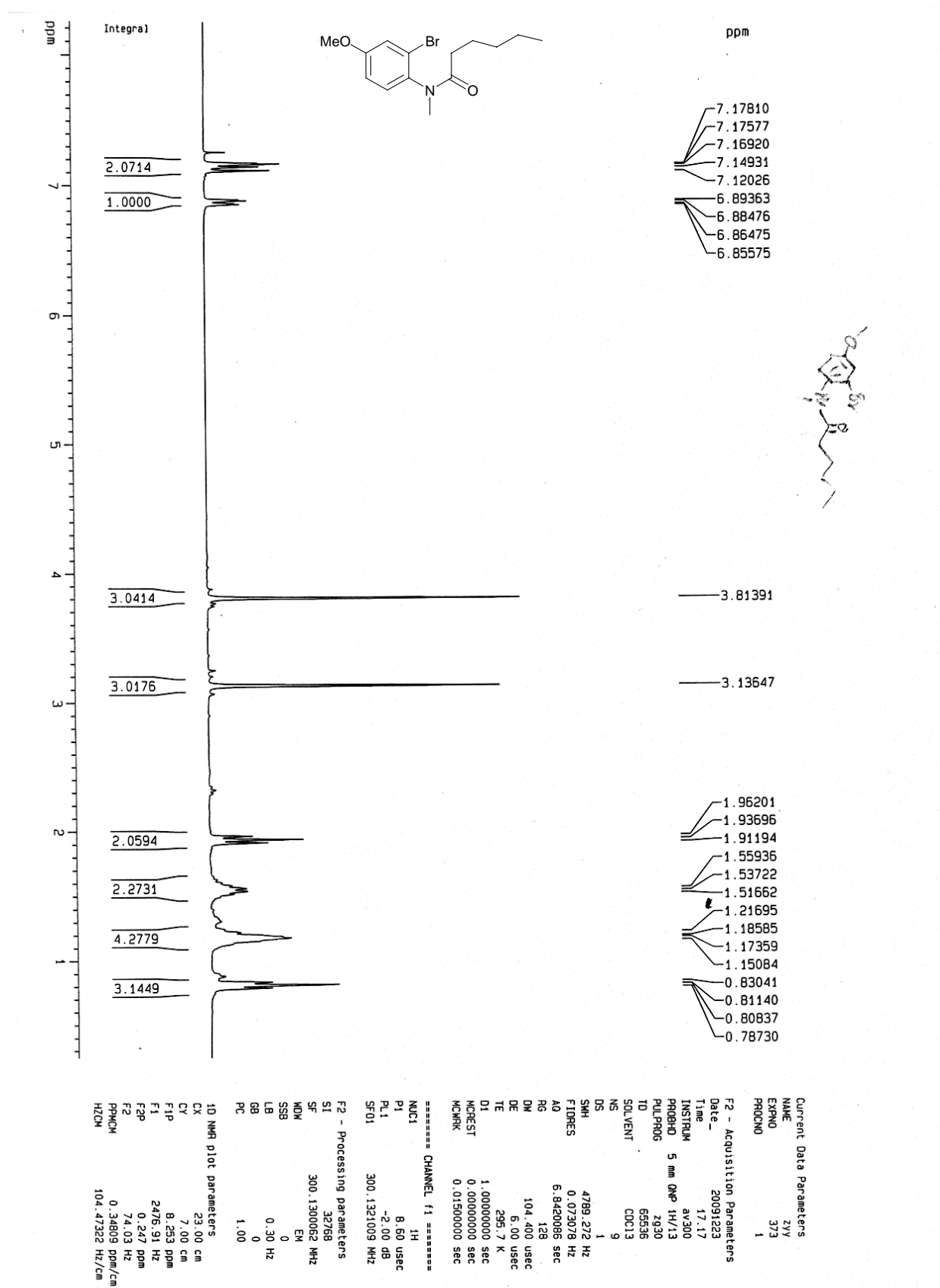


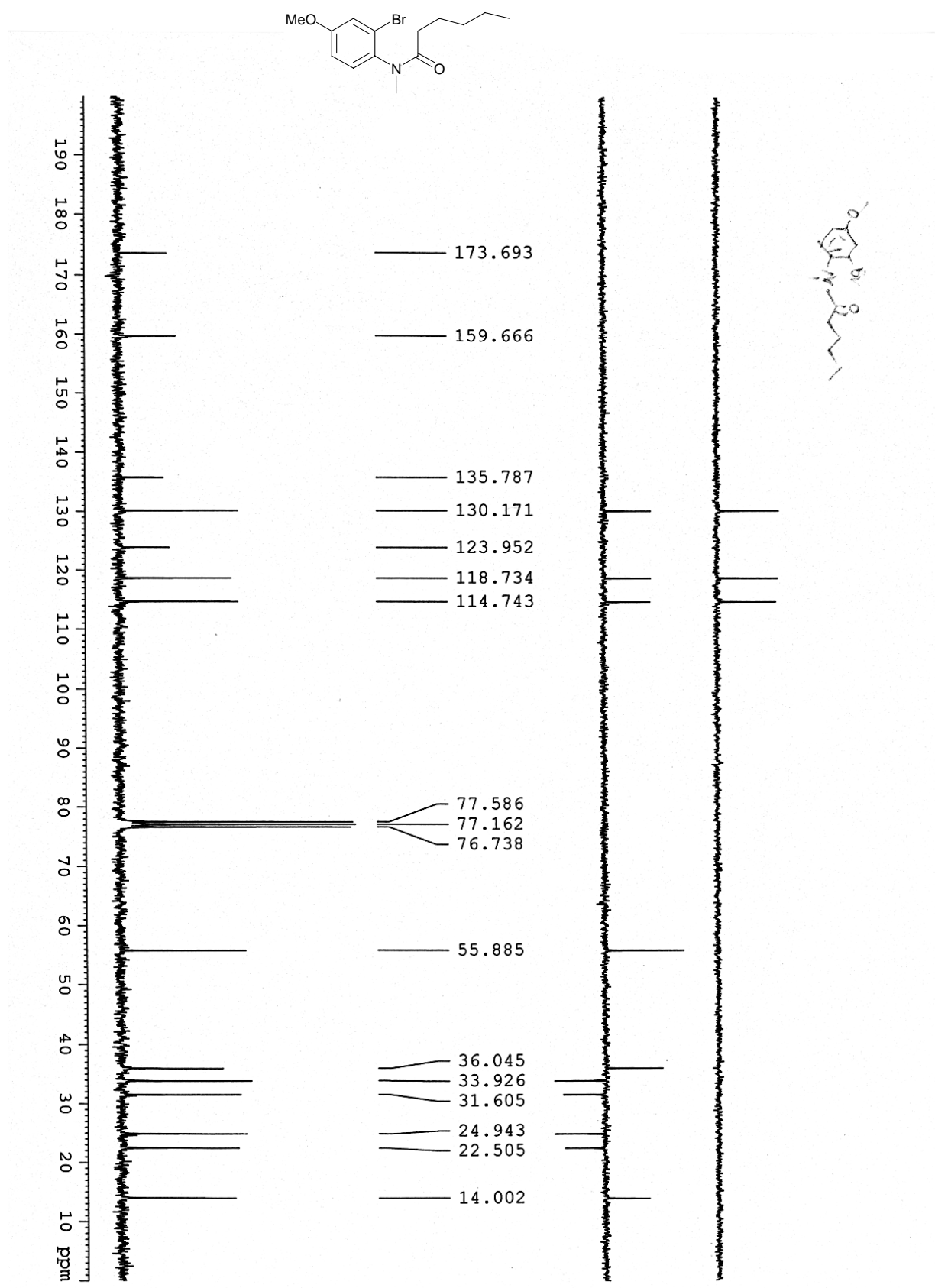


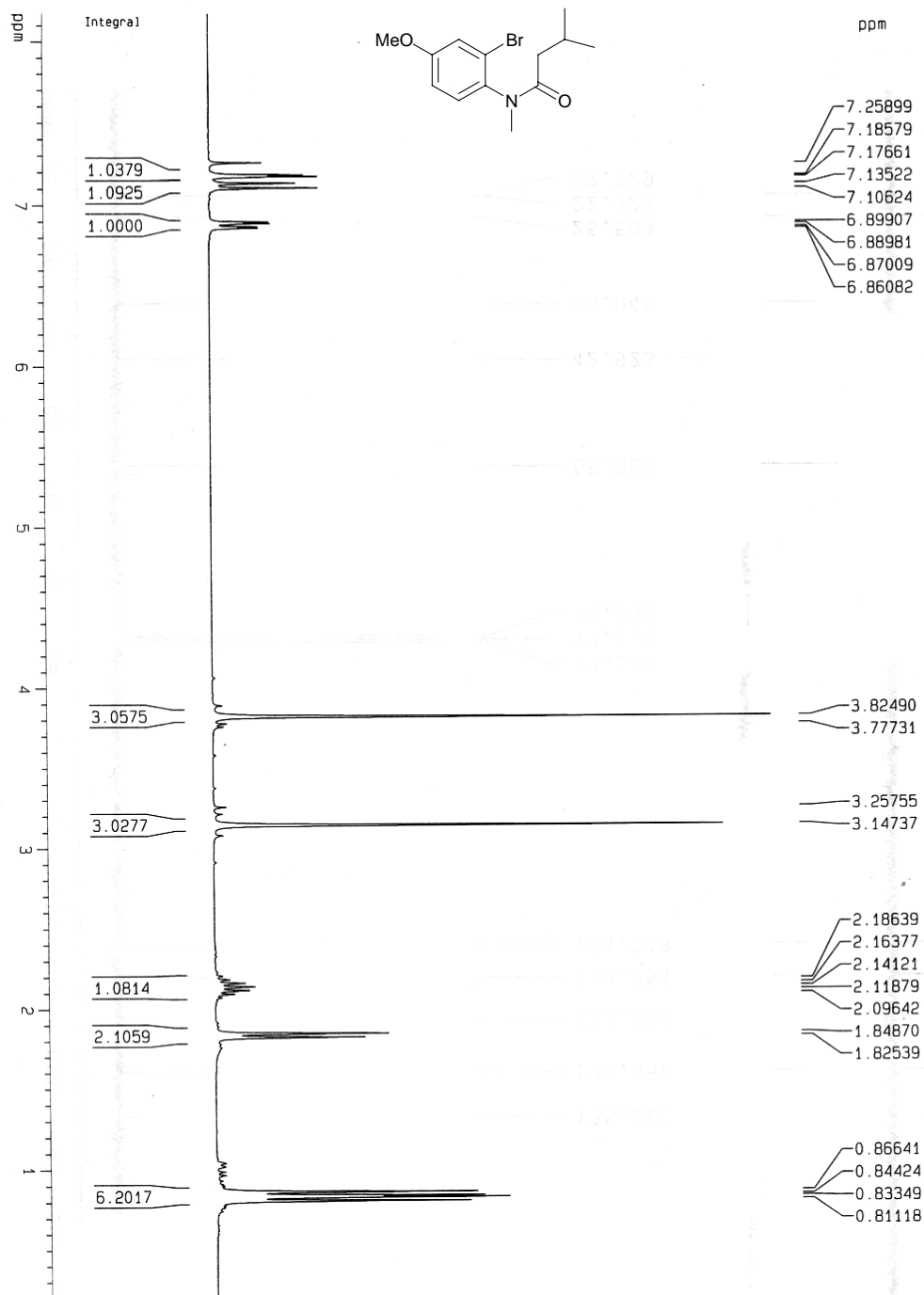












Current Data Parameters

NAME	zyv
EXPNO	369
PROCNO	1

F2 - Acquisition Parameters

Date_	20091222
Time	18.47
INSTRUM	av300
PROBHD	5 mm QNP 1H/13
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	7
DS	1
SWH	4789.272 Hz
FIDRES	0.073078 Hz
AQ	6.8420086 sec
RG	256
DW	104.400 usec
DE	6.00 usec
TE	295.3 K
D1	1.00000000 sec
MCREST	0.00000000 sec
MCNRC	0.01500000 sec

===== CHANNEL f1 =====

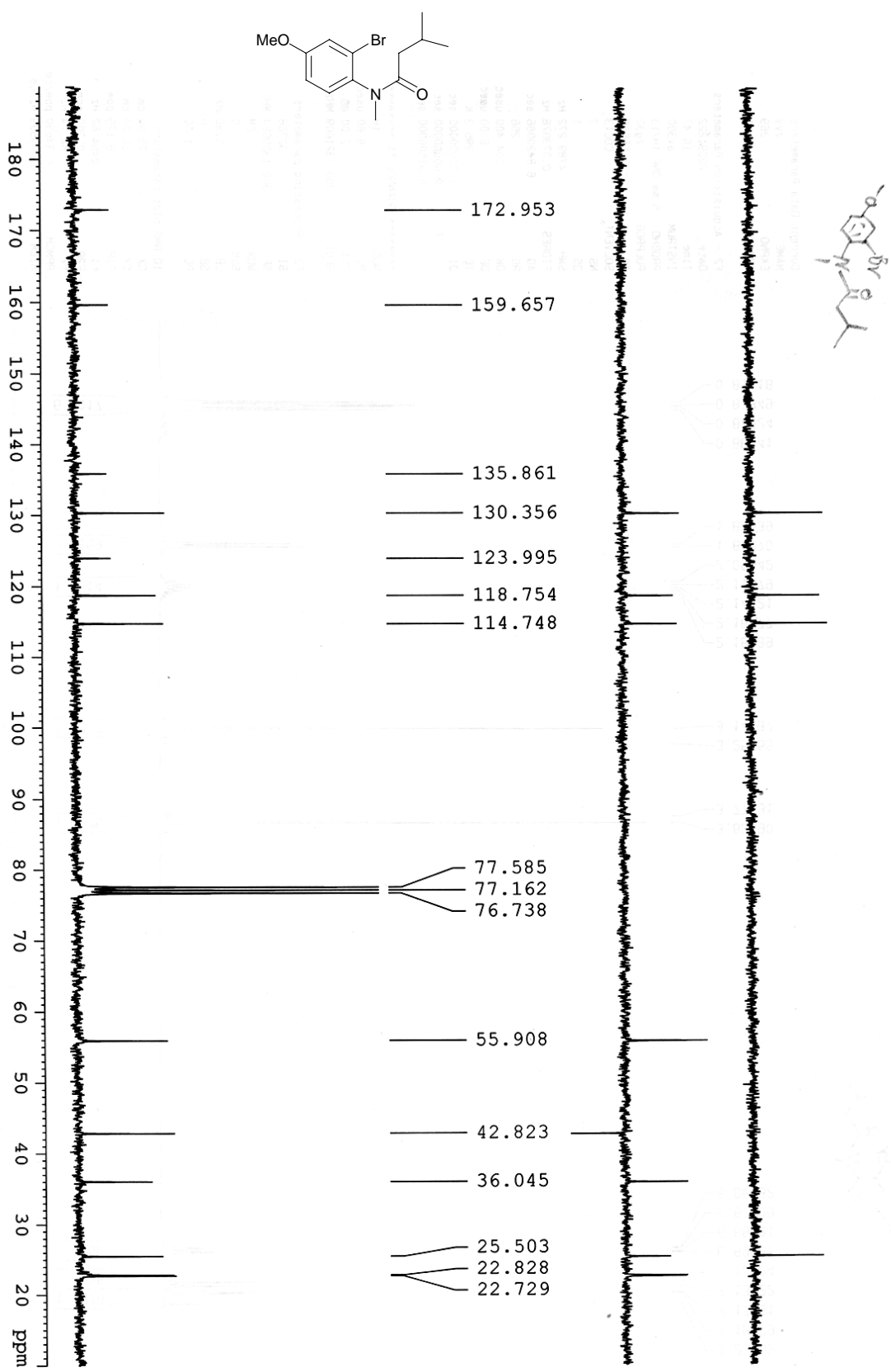
NUC1	1H
P1	8.60 usec
PL1	-2.00 dB
SFO1	300.1321009 MHz

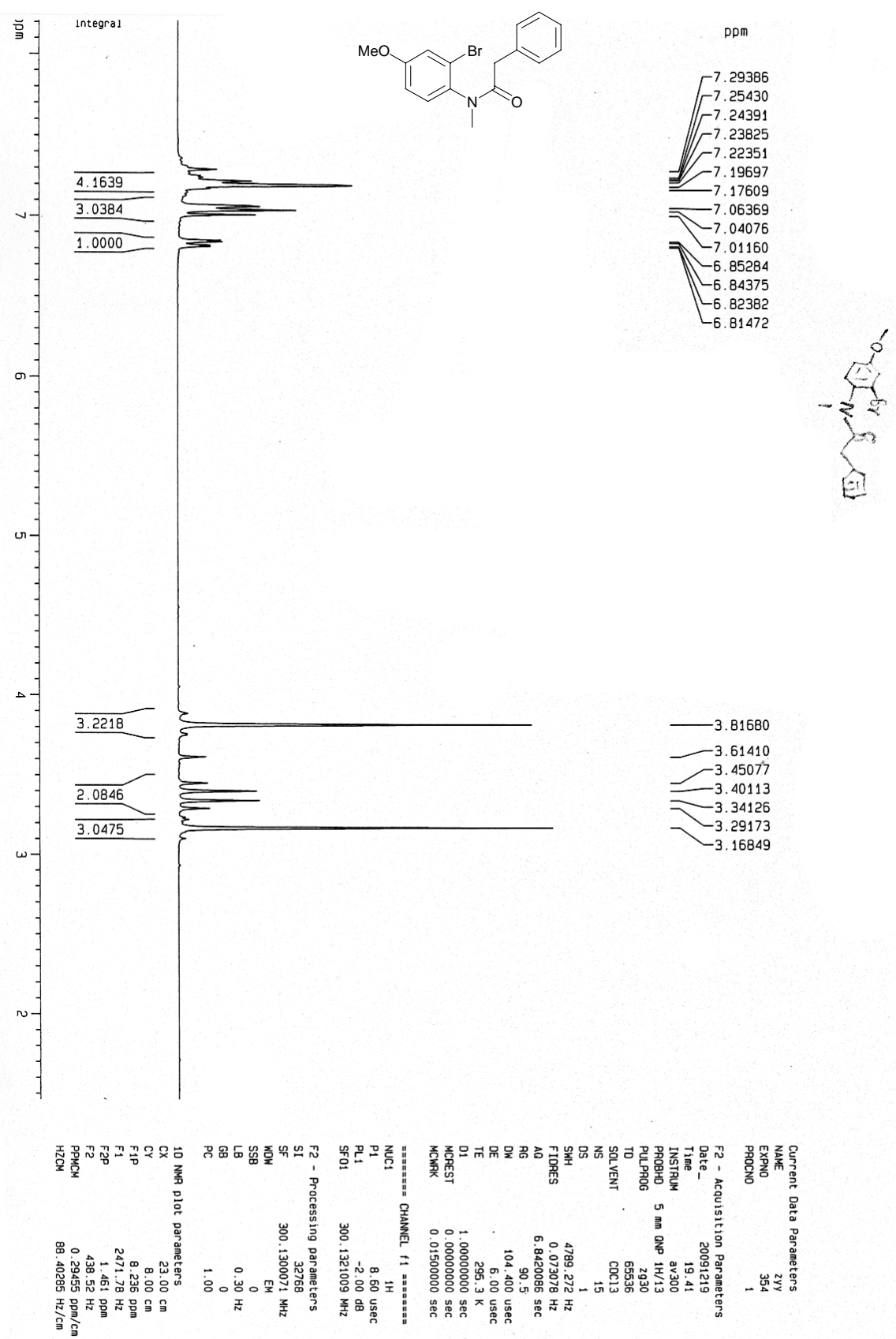
F2 - Processing parameters

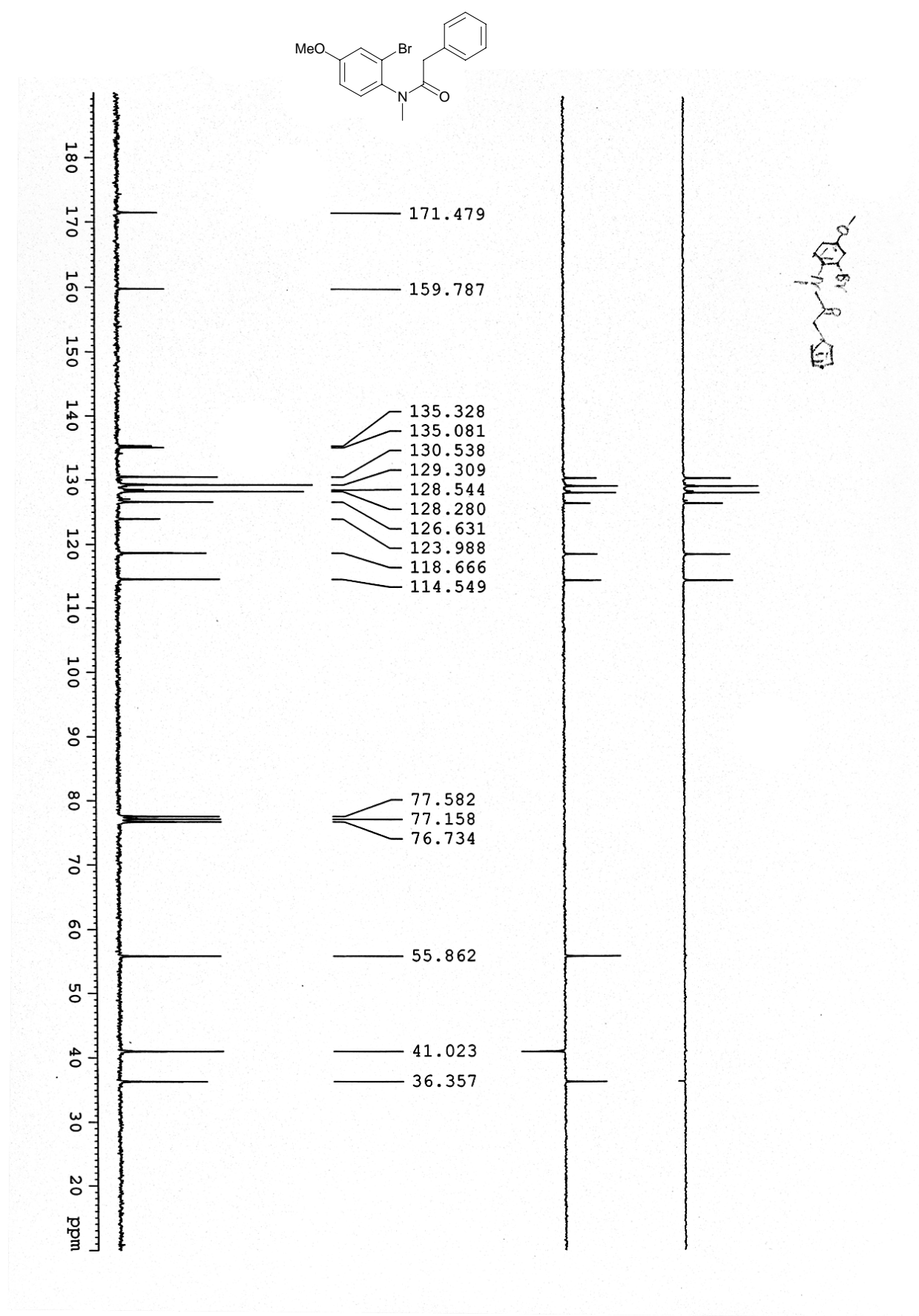
SI	32768
SF	300.130064 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

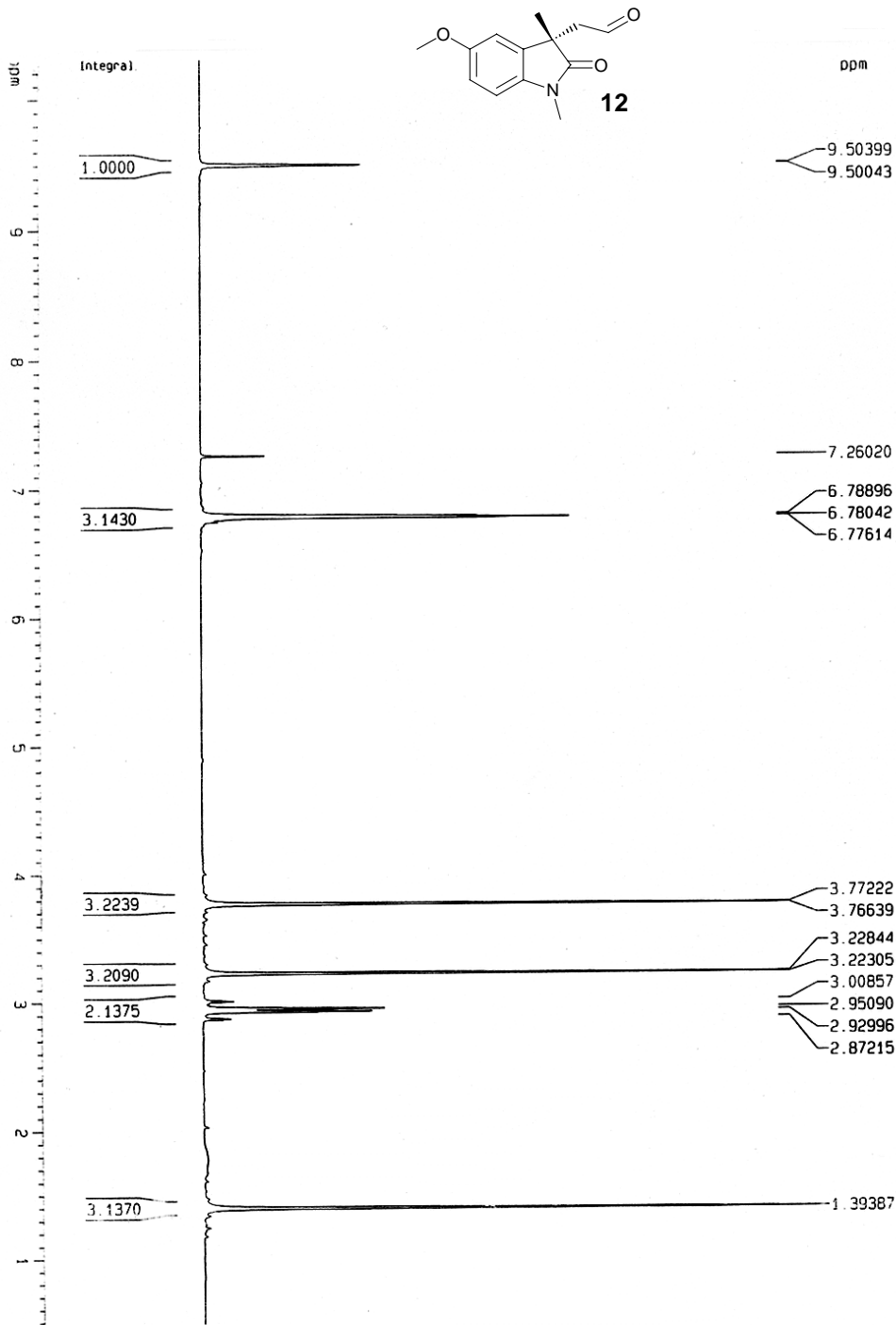
1D NMR plot parameters

CX	23.00 cm
CY	10.00 cm
F1P	8.179 ppm
F1	2454.62 Hz
F2P	0.209 ppm
F2	62.74 Hz
PPMCM	0.34650 ppm/cm
HZCM	103.99509 Hz/cm









Current Data Parameters

NAME	2VY
EXPNO	222
PROCNO	1

F2 - Acquisition Parameters

Date_	20081121
Time	9.25
INSTRUM	av300
PROBHD	5 mm QNP 1H/13
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	16
DS	1
SWH	4789.272 Hz
FIDRES	0.073078 Hz
AQ	6.842086 sec
RG	228.1
DM	104.400 usec
DE	6.00 usec
TE	295.7 K
D1	1.00000000 sec
MCREST	0.00000000 sec
MCPRK	0.01500000 sec

***** CHANNEL f1 *****

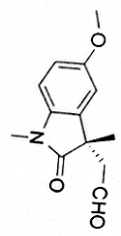
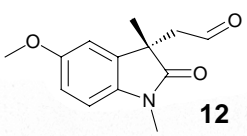
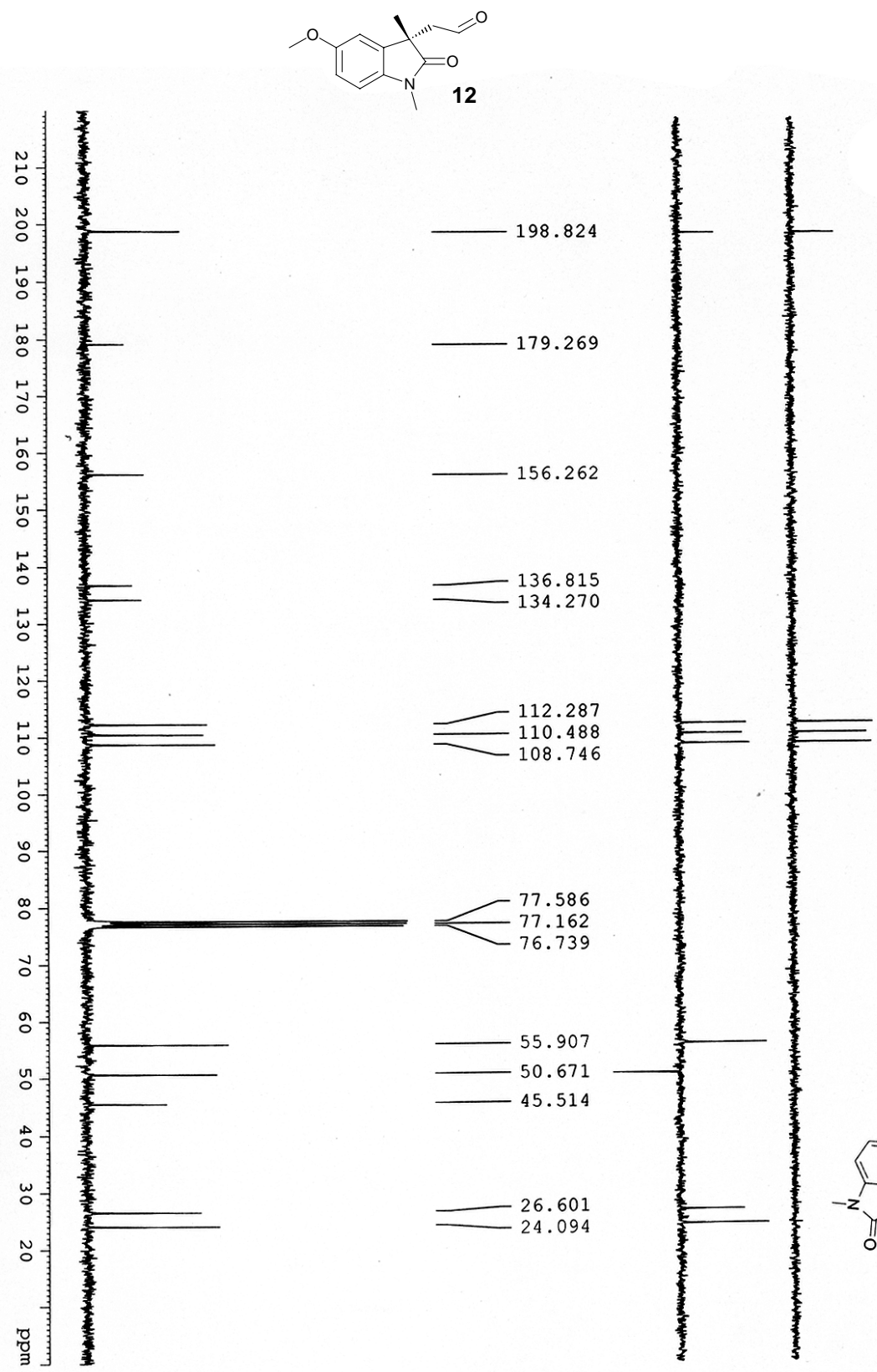
NUC1	1H
P1	8.60 usec
PL1	-2.00 dB
SFO1	300.1321009 MHz

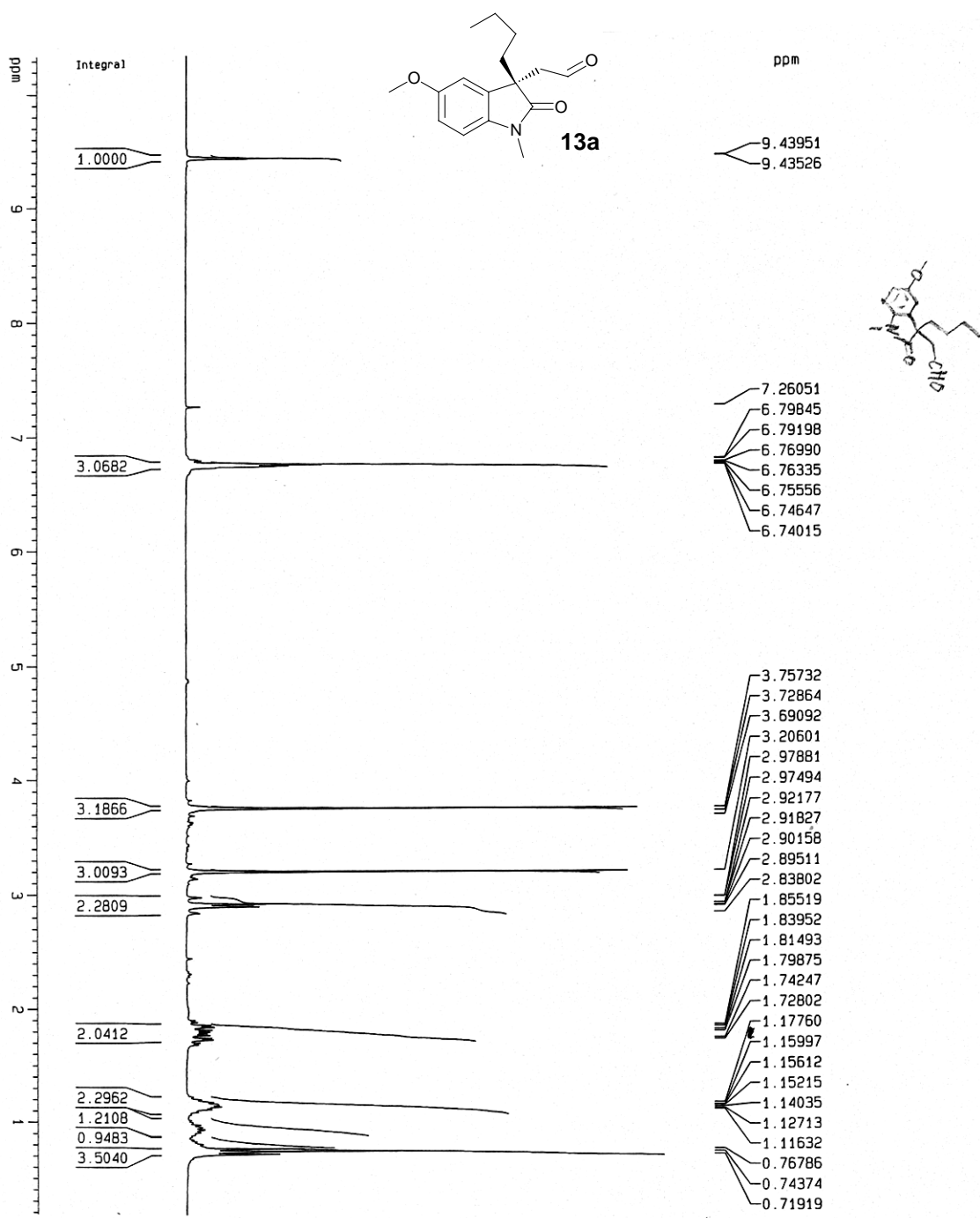
F2 - Processing parameters

SI	32768
SF	300.130121 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR Plot Parameters

CX	23.00 cm
CY	12.50 cm
F1P	10.331 ppm
F1	3100.75 Hz
F2P	0.490 ppm
F2	147.17 Hz
PPMCH	0.42767 ppm/cm
HZCH	128.41655 Hz/cm





Current Data Parameters

NAME	zyy
EXPNO	407
PROCNO	1

F2 - Acquisition Parameters

Date_	20100104
Time	11.35
INSTRUM	av300
PROBHD	5 mm QNP 1H/13
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	11
DS	1
SWH	4789.272 Hz
FIDRES	0.073078 Hz
AQ	6.842086 sec
RG	90.5
DM	104.400 usec
DE	6.00 usec
TE	295.4 K
D1	1.00000000 sec
MCREST	0.00000000 sec
MCNMR	0.01500000 sec

===== CHANNEL f1 =====

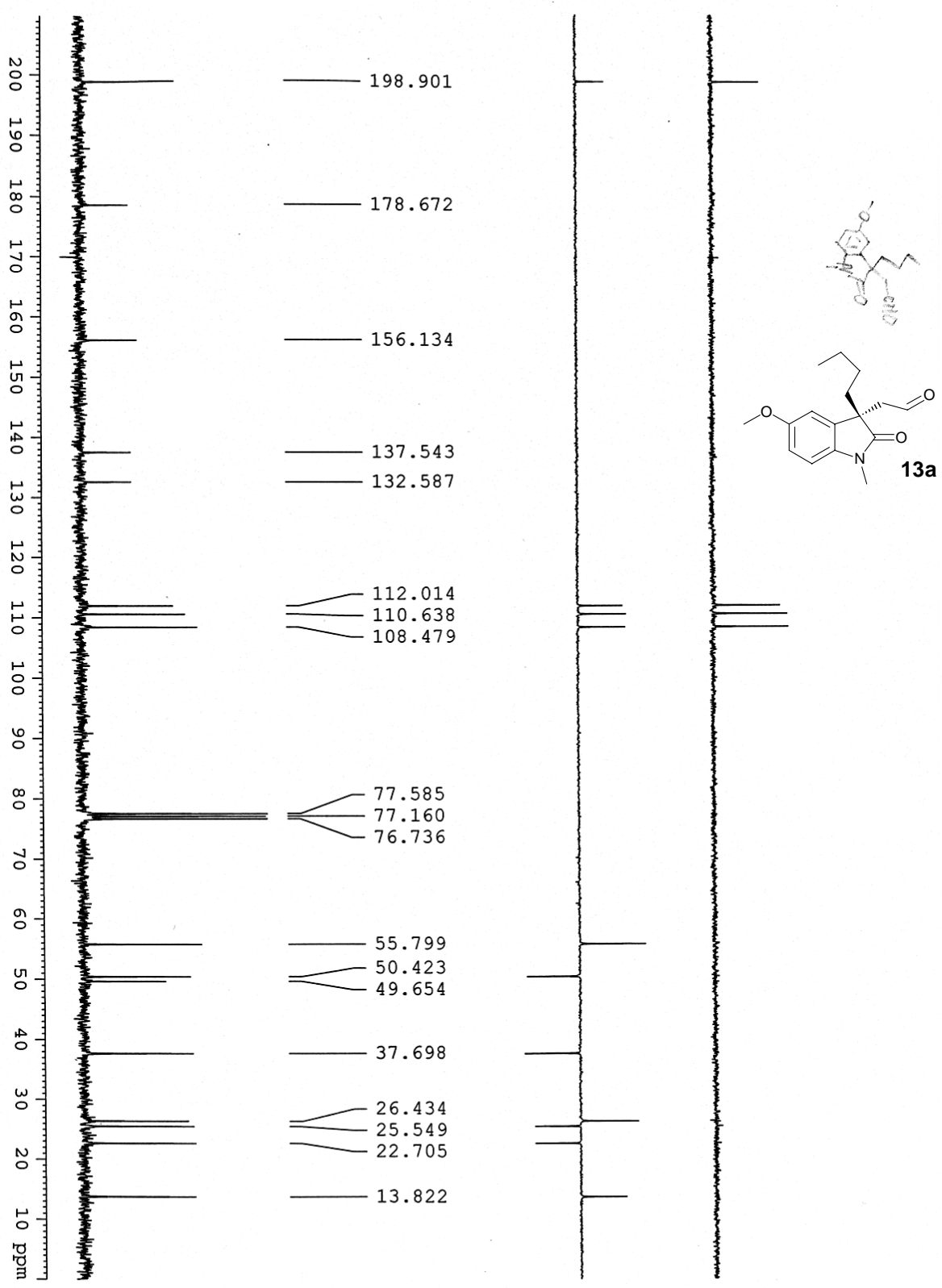
NUC1	1H
P1	8.60 usec
PL1	-2.00 dB
SFO1	300.1321009 MHz

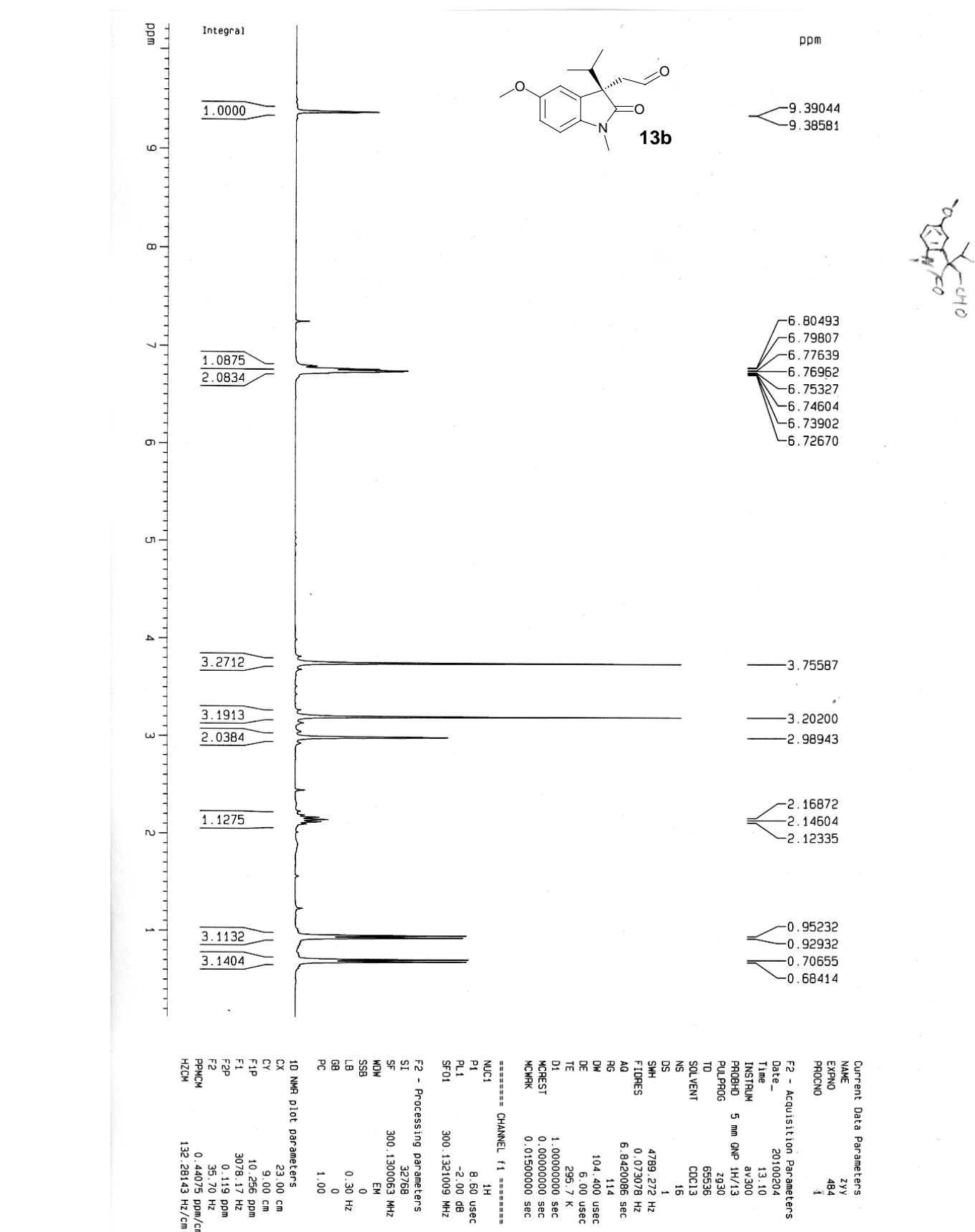
F2 - Processing parameters

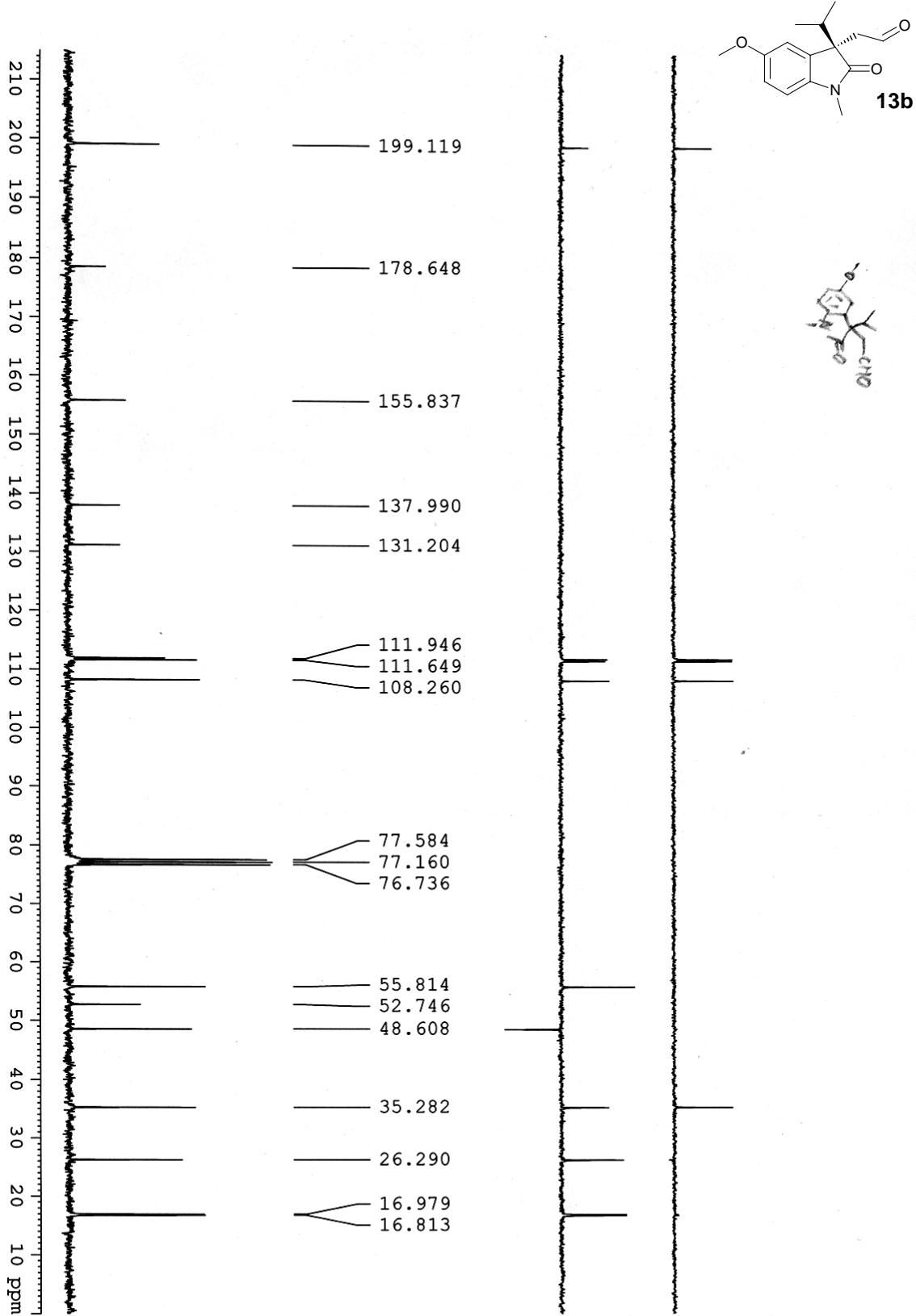
SI	32768
SF	300.1300057 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

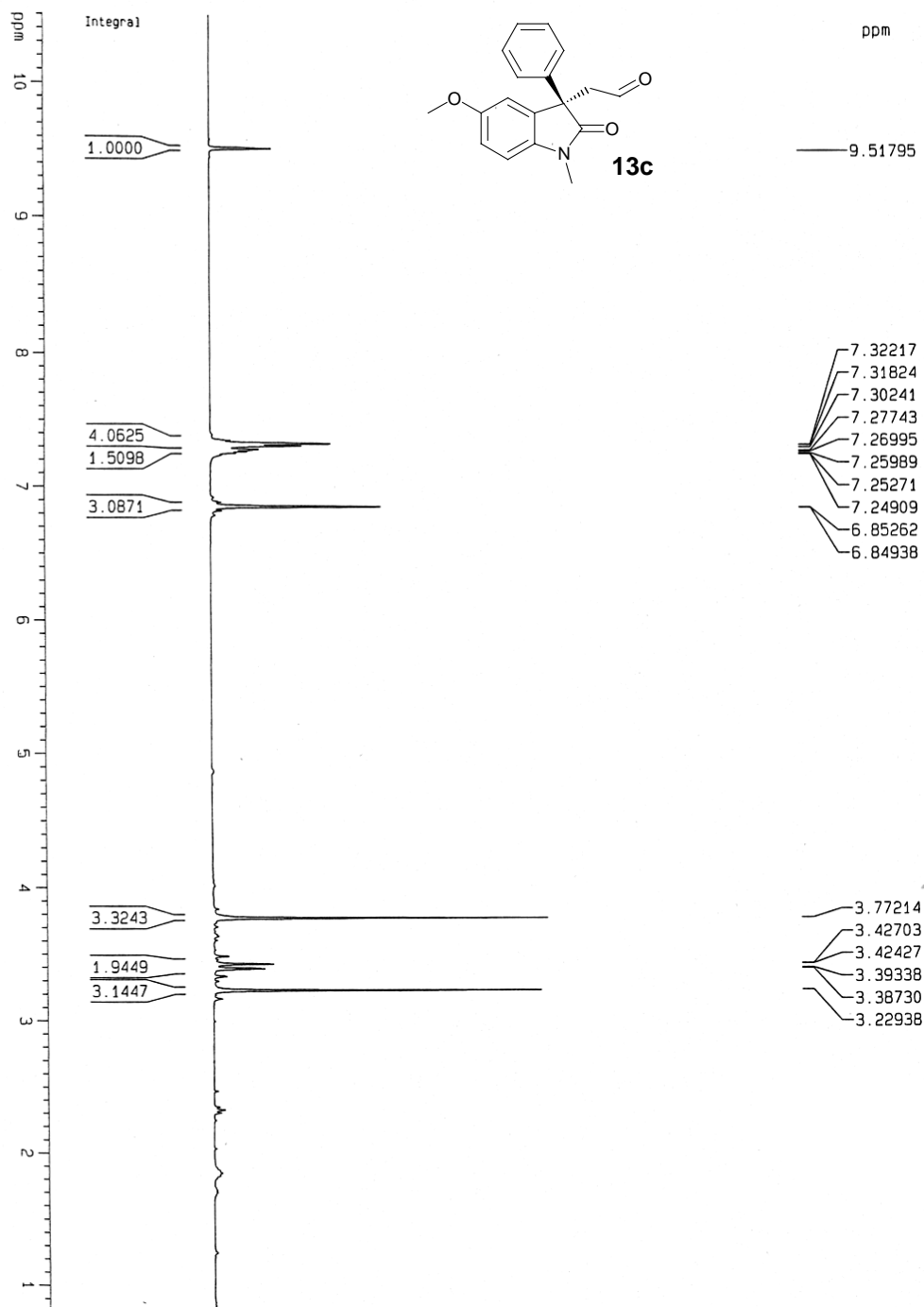
1D NMR plot parameters

CX	23.00 cm
CY	9.00 cm
F1P	10.344 ppm
F1	3104.59 Hz
F2P	0.183 ppm
F2	54.92 Hz
PPMCH	0.44179 ppm/cm
HZCH	132.59439 Hz/cm









Current Data Parameters

NAME	z1y
EXPNO	388
PROCNO	1

F2 - Acquisition Parameters

Date_	20091228
Time	10.35
INSTRUM	av300
PROBHD	5 mm QNP 1H/13
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	9
DS	1
SWH	4789.272 Hz
FIDRES	0.073078 Hz
AQ	6.842086 sec
RG	114
DM	104.400 usec
DE	6.00 usec
TE	294.4 K
D1	1.00000000 sec
MCREST	0.00000000 sec
MCNMR	0.01500000 sec

***** CHANNEL f1 *****

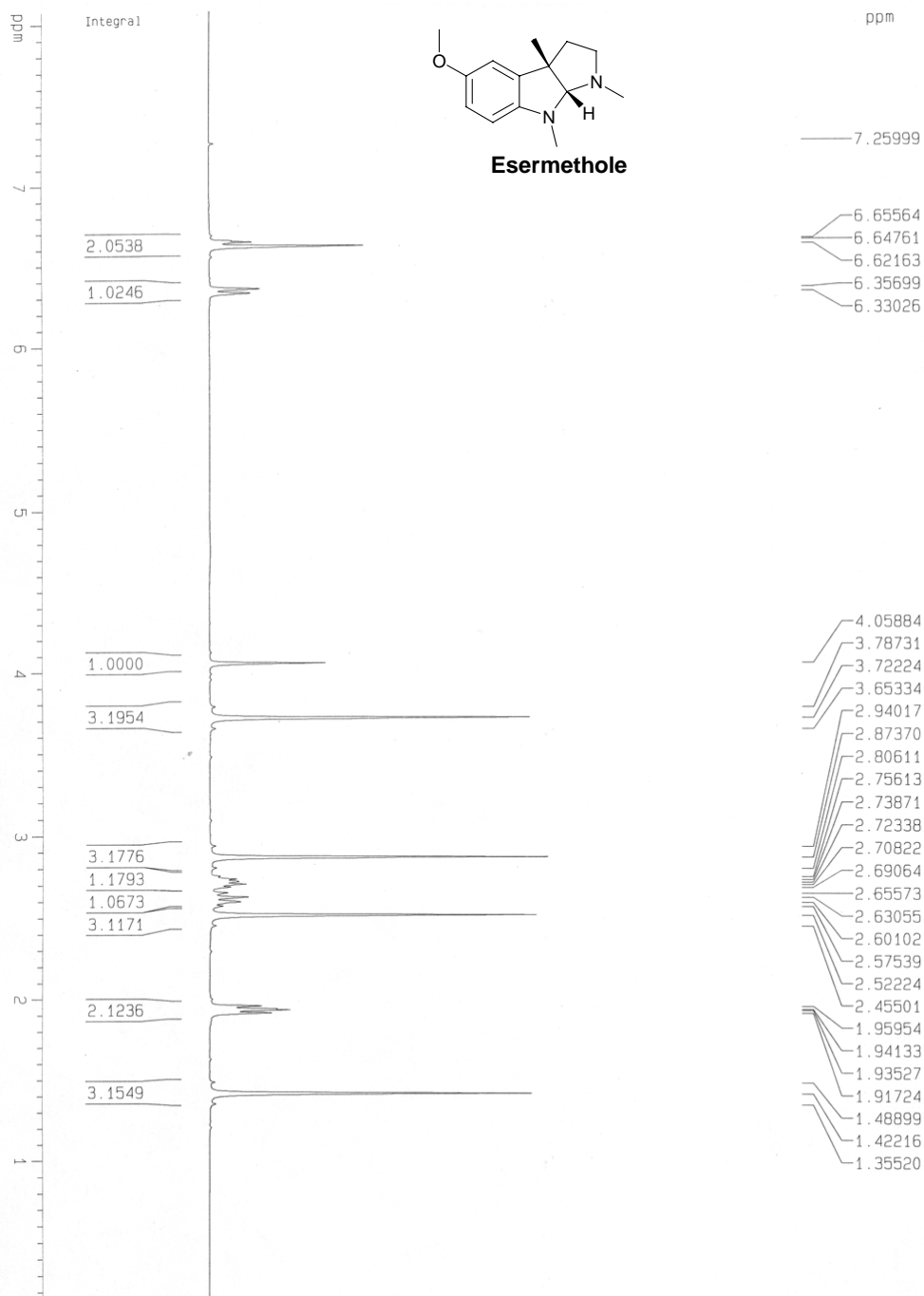
NUC1	1H
P1	8.60 usec
PL1	-2.00 dB
SFO1	300.132109 MHz

F2 - Processing parameters

SI	32768
SF	300.130061 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CK	23.00 cm
CV	6.00 cm
F1P	10.506 ppm
F1	3153.25 Hz
F2P	0.833 ppm
F2	250.00 Hz
PPMCM	0.42058 ppm/cm
HZCM	126.22852 Hz/cm



Current Data Parameters

NAME	zyy
EXPNO	635
PROCNO	1

F2 - Acquisition Parameters

Date_	20100425
Time	12.03
INSTRUM	av300
PROBHD	5 mm QNP 1H/13
PULPROG	zg30
TD	65536
SOLVENT	CDCl3
NS	7
DS	2
SWH	4789.272 Hz
FIDRES	0.073078 Hz
AQ	6.842086 sec
RG	35.9
DW	104.400 usec
DE	6.00 usec
TE	294.5 K
D1	1.00000000 sec
MCREST	0.00000000 sec
MCNMR	0.01500000 sec

===== CHANNEL f1 =====

NUC1	¹ H
P1	8.60 usec
PL1	-2.00 dB
SFO1	300.132109 MHz

F2 - Processing parameters

SI	32768
SF	300.130063 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	23.00 cm
CY	6.00 cm
F1P	8.077 ppm
F1	2424.20 Hz
F2P	0.167 ppm
F2	49.98 Hz
PPMCH	0.34394 ppm/cm
HZCM	103.22691 Hz/cm

