Asymmetric Synthesis of *syn*-α-Substituted β-Amino Ketones using Sulfinimines and Prochiral Weinreb Amide Enolates.

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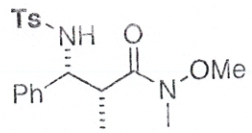
Supplemental Information

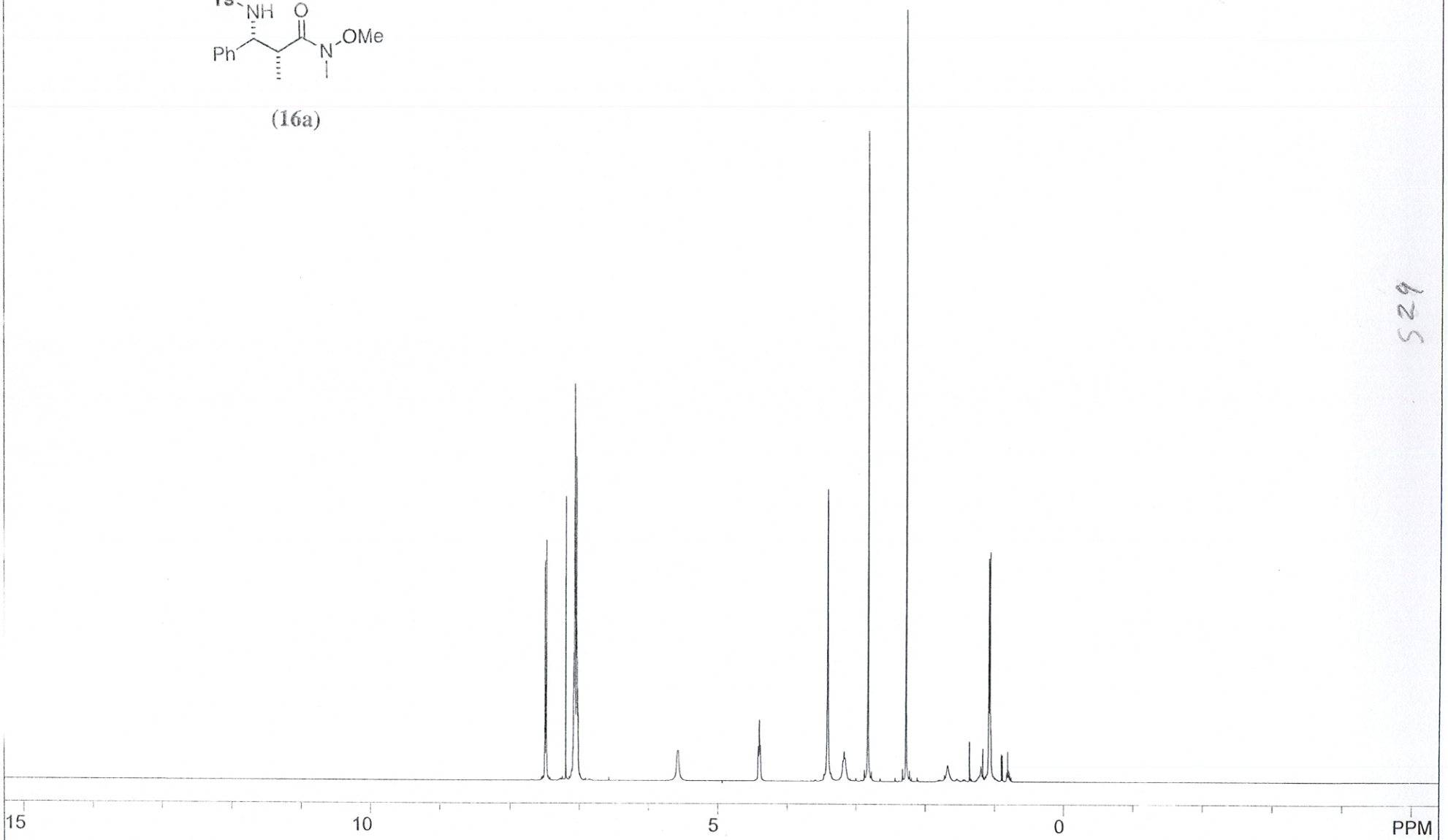
Part II

^{1}H and ^{13}C NMR spectra for all new compounds

pages S28-S52



(16a)



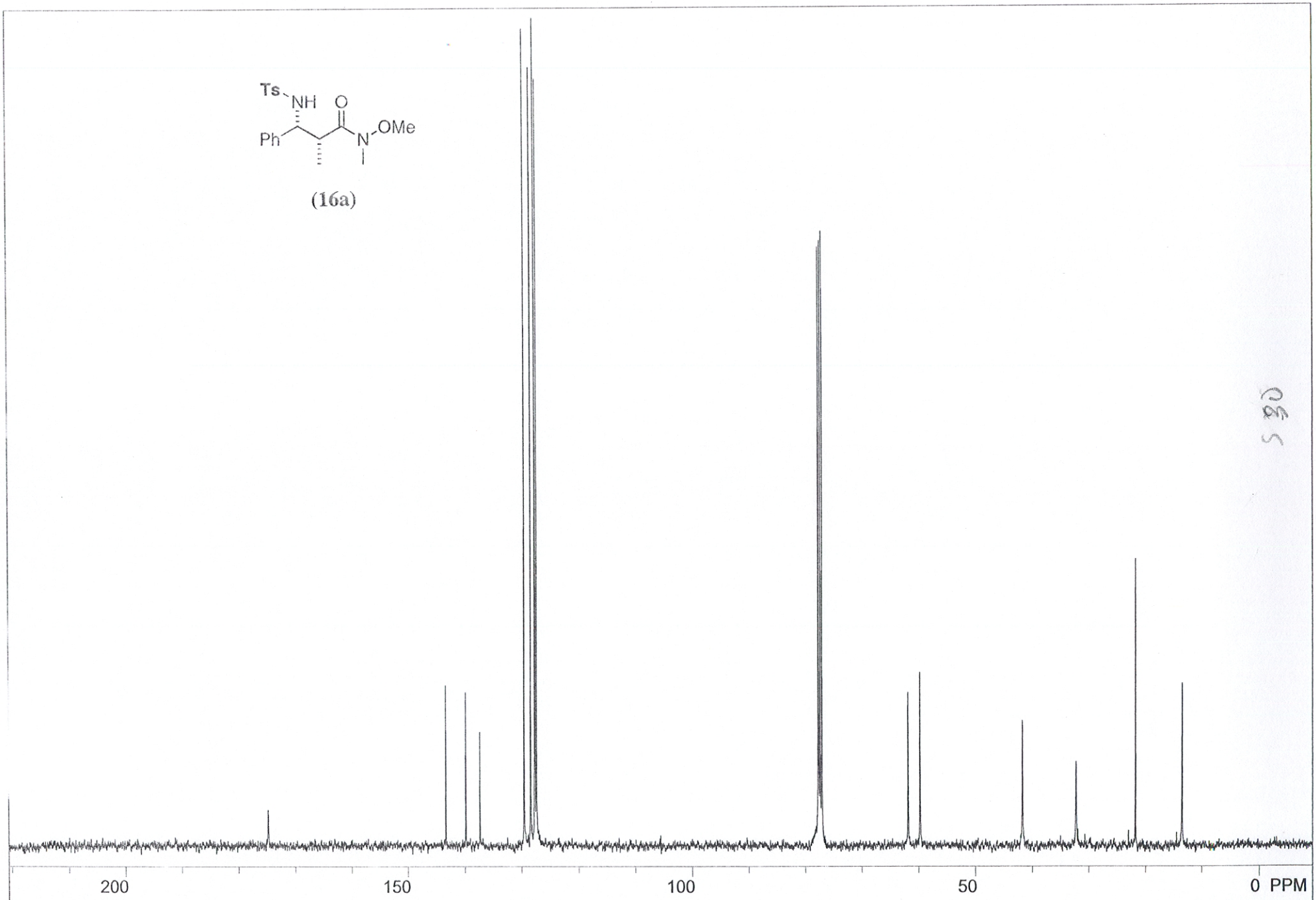
S29

MS-II-193B, proton.atm,

USER: temple -- DATE: Aug 23 08:33:22 2006 EDT (UT-4h) templ

F1: 400.191	F2: 1.000	SW1: 8278		OF1: 1975.6		PTS1d: 32768	
EX:		PW: 9.8 usec	PD: 1.0 sec	NA: 16	LB: 0.1		WinNuts - $Minsoo.1

(16a)



MS-II-193B, carbon2HR.atm, USER: temple -- DATE: Aug 23 10:33:47 2006 EDT (UT-4h) templ

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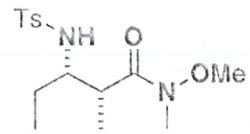
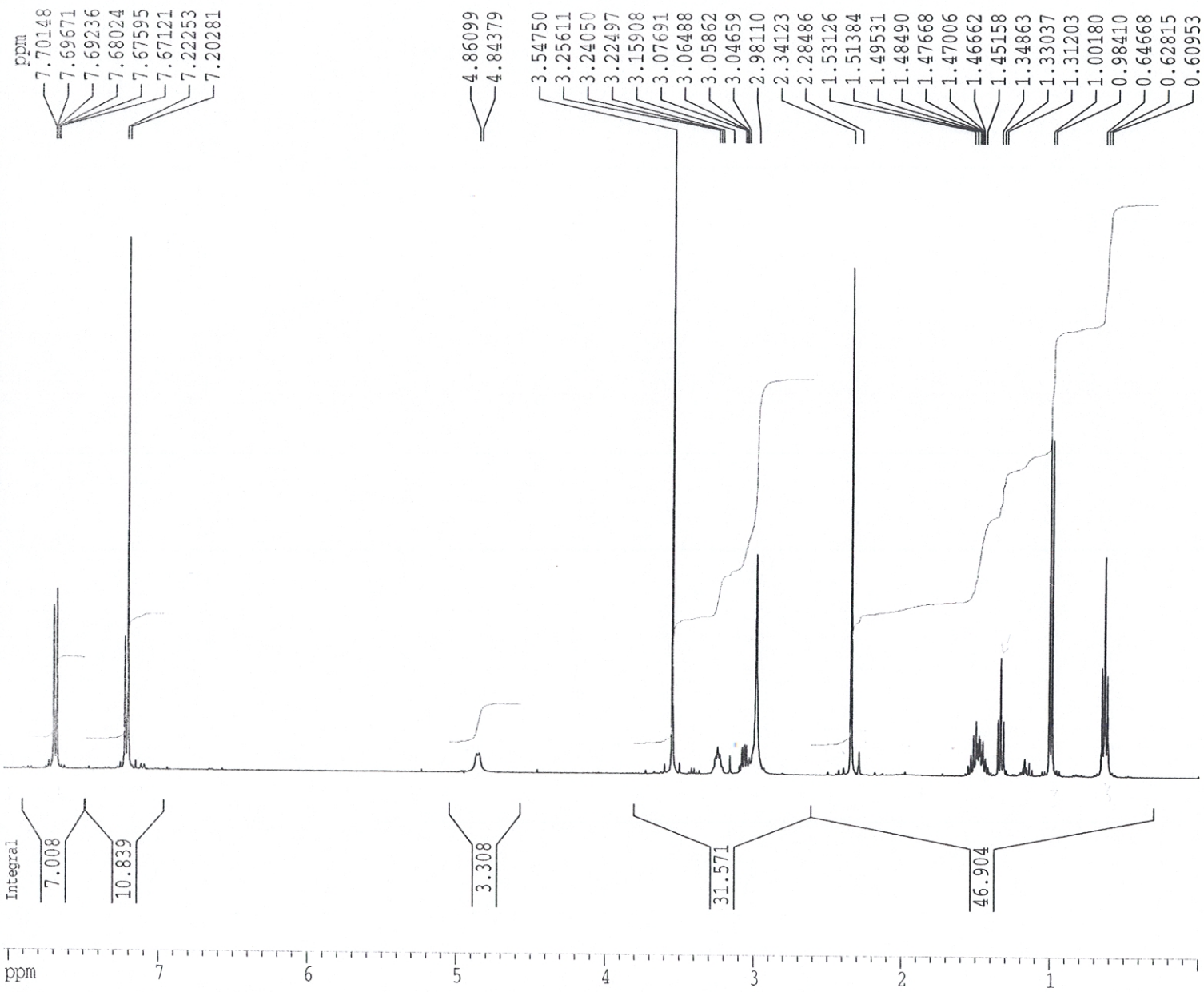
EX:		PW: 5.7 usec	PD: 2.0 sec	NA: 2048	LB: 3.0		WinNuts - $Minsoo.1

S 86



(16b)



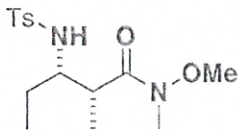
Current Data Parameters
NAME minsoo
EXPNO 466
PROCNO 1

F2 - Acquisition Parameters
Date_ 20060706
Time 12.50
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 114
DW 60.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

======== CHANNEL f1 ========
NUC1 1H
P1 9.80 usec
PL1 0.00 dB
SFO1 400.1931165 MHz

F2 - Processing parameters
SI 32768
SF 400.1911373 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
CY 12.50 cm
F1P 8.032 ppm
F1 3214.32 Hz
F2P -0.005 ppm
F2 -2.16 Hz
PPMCM 0.40187 ppm/cm
HZCM 160.82390 Hz/cm



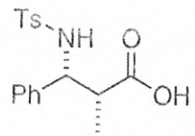
(16b)

S32

200 150 100 50 0 PPM

MS-II-185A, carbon2HR.atm, USER: temple -- DATE: Oct 10 17:24:20 2006 EDT (UT-4h) templ

F1: 100.628	F2: 1.000	SW1: 23148		OF1: 10621.8		PTS1d: 32768	
EX:		PW: 5.7 usec	PD: 2.0 sec	NA: 1700	LB: 3.0		WinNuts - $Minsoo.1



(17)

S35

15 10 5 0 PPM

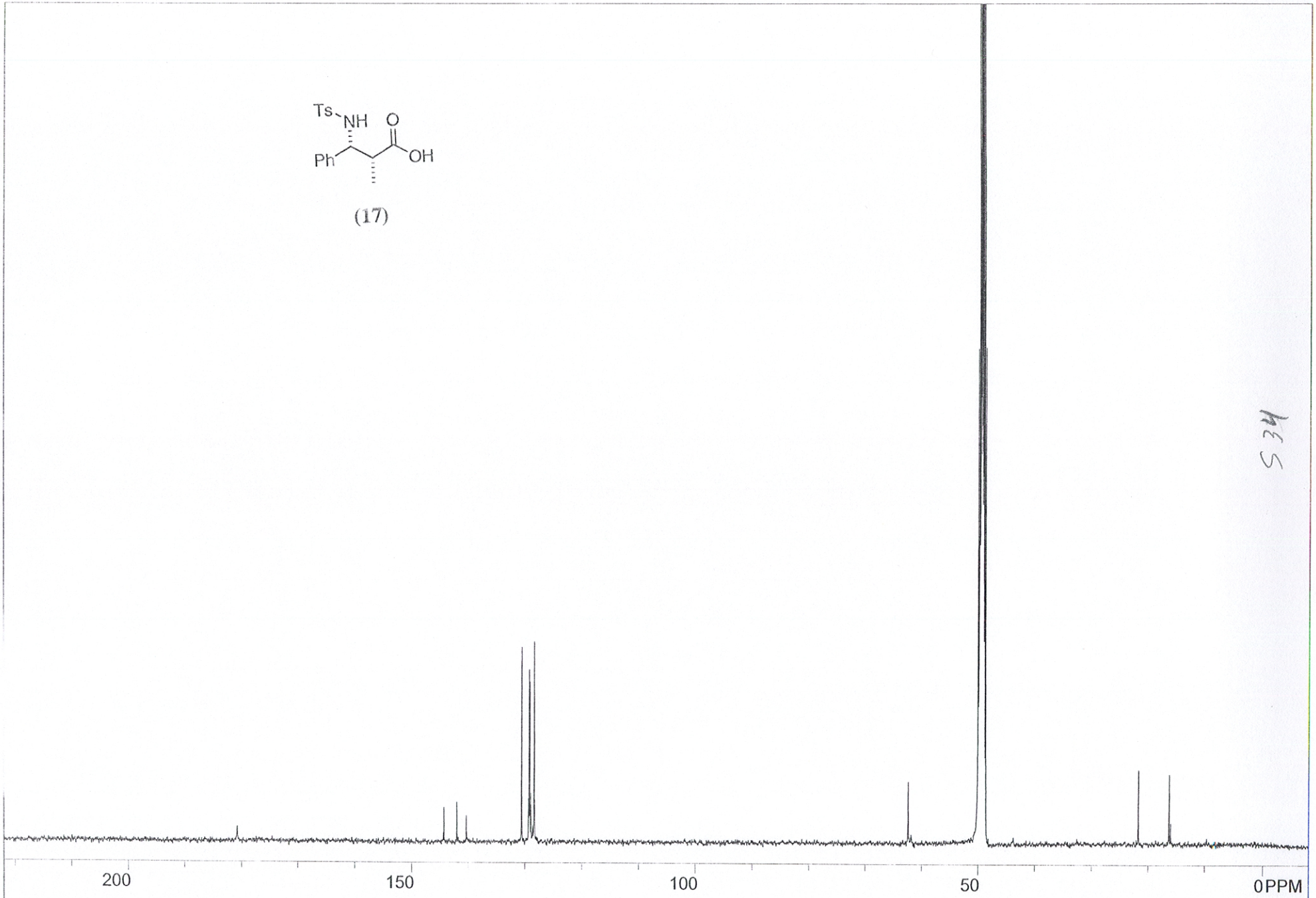
MS-II-195C2, proton.atm,

USER: temple -- DATE: Aug 31 11:19:40 2006 EDT (UT-4h) templ

F1: 400.191	F2: 1.000	SW1: 8278		OF1: 2000.1		PTS1d: 32768	
EX:		PW: 9.8 usec	PD: 1.0 sec	NA: 16	LB: 0.1		WinNuts - $Minsoo.1

(17)

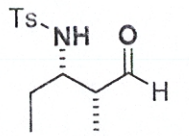
S 34



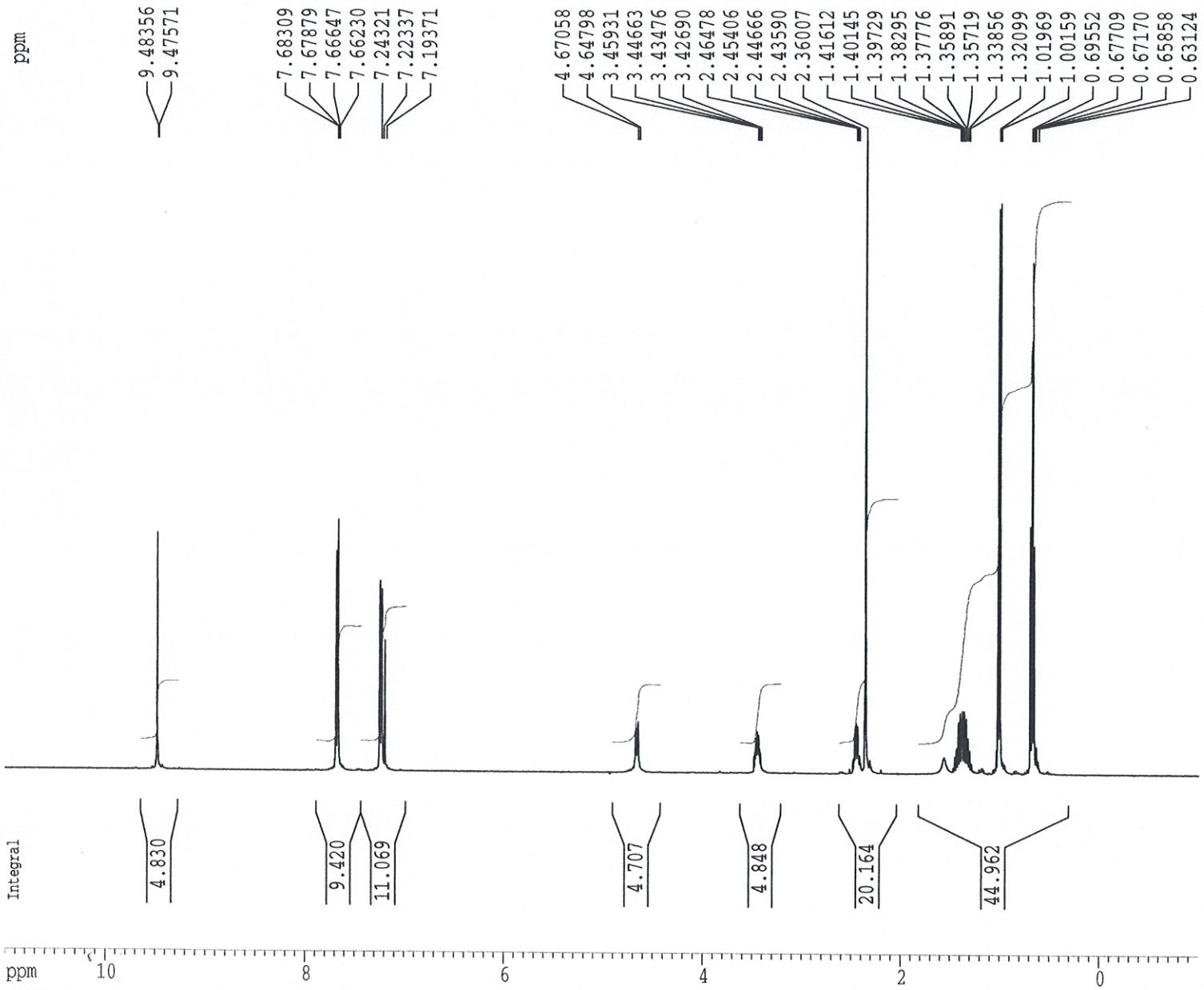
MS-II-195B, carbonOVNTE.atm,

USER: temple -- DATE: Aug 26 07:15:41 2006 EDT (UT-4h) templ

F1: 100.628	F2: 1.000	SW1: 23148		OF1: 10764.7		PTS1d: 32768
EX:		PW: 5.7 usec	PD: 2.0 sec	NA: 15000	LB: 3.0	WinNuts - $Minsoo.1



18



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NAME minsoo
EXPNO 477
PROCNO 1

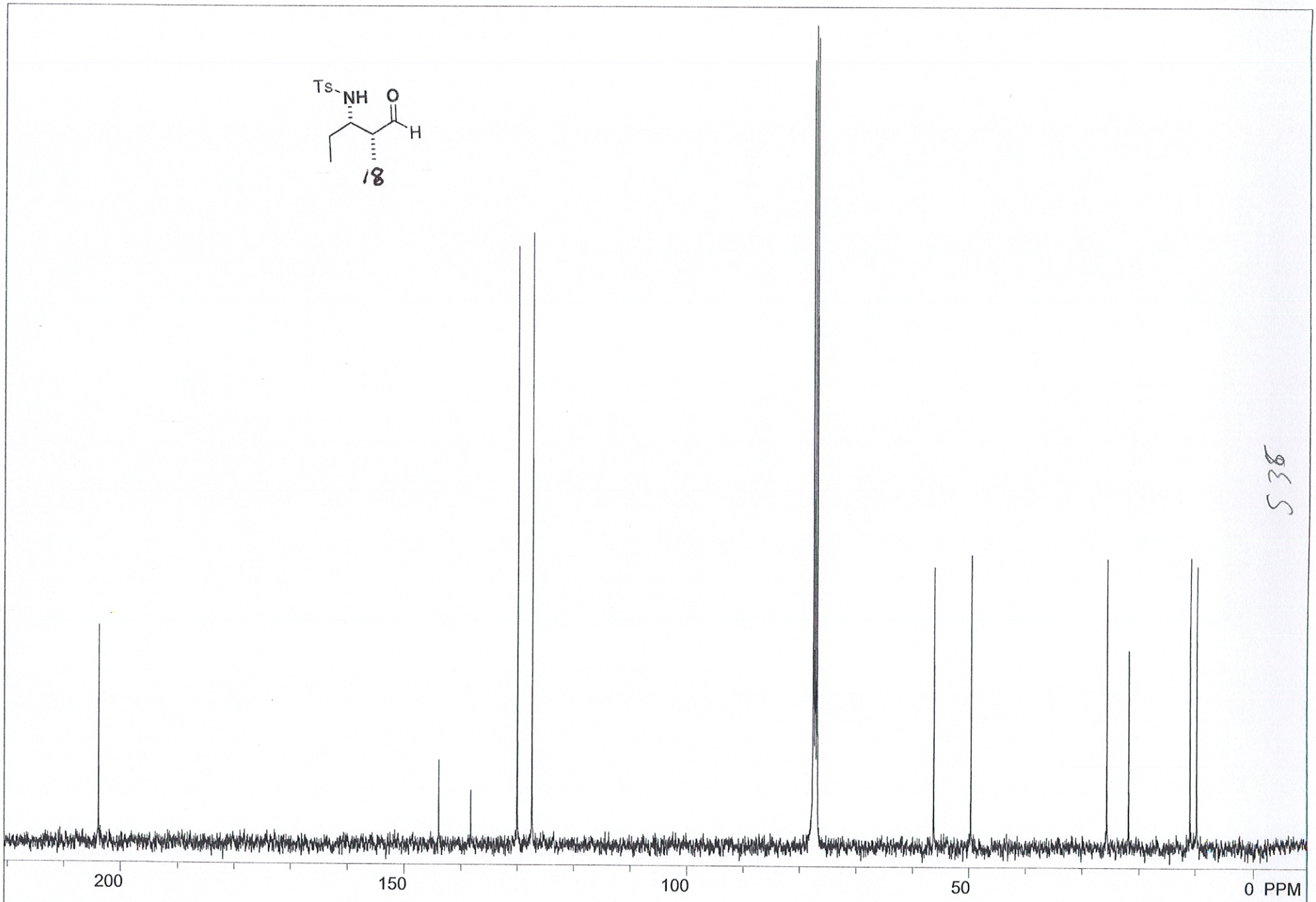
F2 - Acquisition Parameters
Date_ 20060810
Time 15.46
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 256
DW 60.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

======== CHANNEL f1 ========
NUC1 1H
P1 9.80 usec
PL1 0.00 dB
SFO1 400.1931165 MHz

F2 - Processing parameters
SI 32768
SF 400.1911410 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
CY 12.50 cm
F1P 11.000 ppm
F1 4402.10 Hz
F2P -1.000 ppm
F2 -400.19 Hz
PPMCM 0.60000 ppm/cm
HZCM 240.11469 Hz/cm

S38



S38

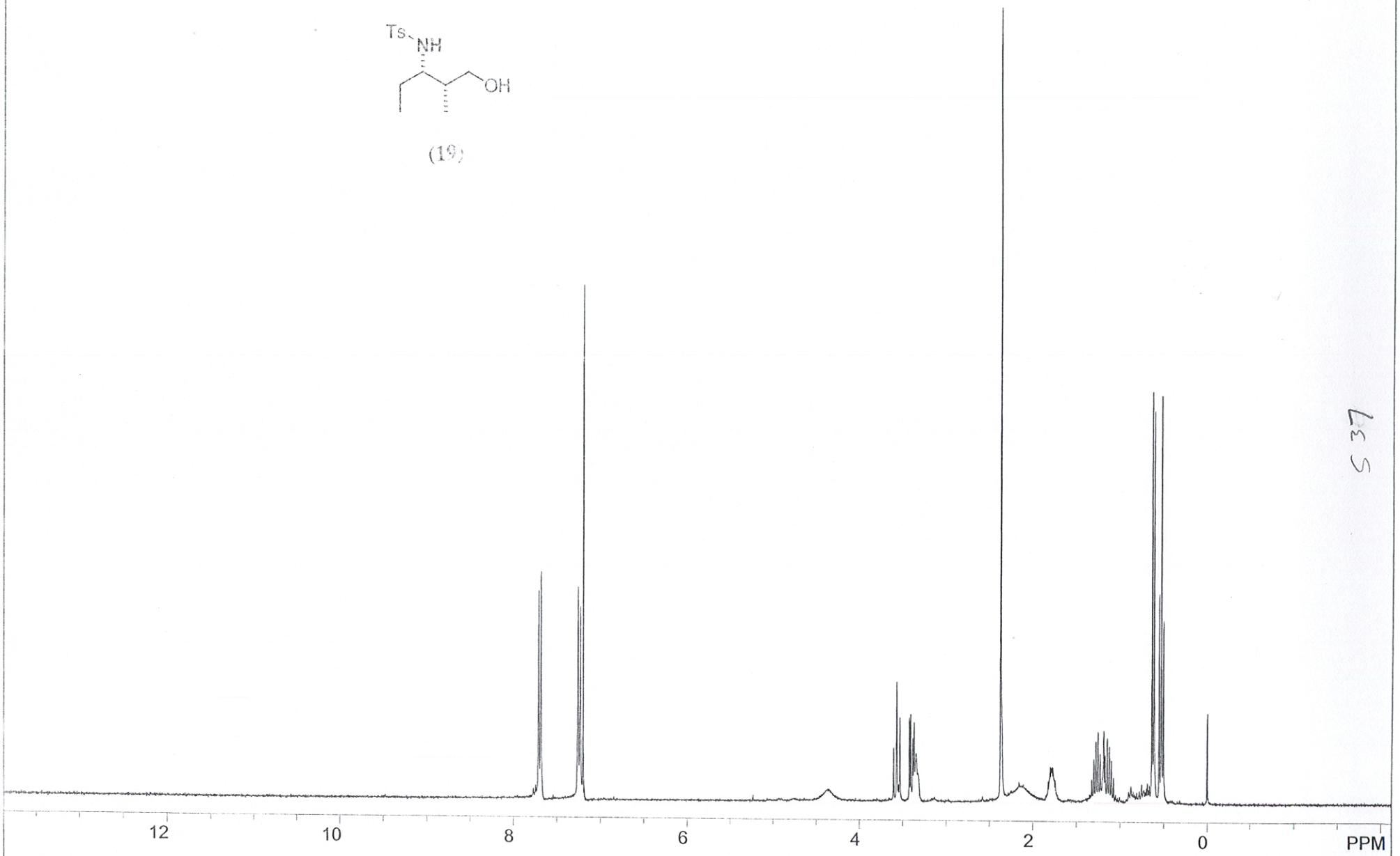
MS-II-187A, carbon2HR.atm,

USER: temple -- DATE: Aug 10 17:16:30 2006 EDT (UT-4h) templ

F1: 100.628	F2: 1.000	SW1: 23148		OF1: 10621.8		PTS1d: 32768	
EX:		PW: 5.7 usec	PD: 2.0 sec	NA: 1540	LB: 3.0		WinNuts - $Minsoo.1

(19)

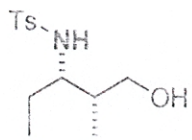
S37



MS-II-173A

USER: -- DATE: Jul 11 2006

F1: 300.018	F2: 300.018	SW1: 4800		OF1: 1761.4		PTS1d: 16384
EX: s2pul		PW: 4.0 usec	PD: 1.0 sec	NA: 32	LB: 0.0	WinNuts - $PROTON.fid



(19)

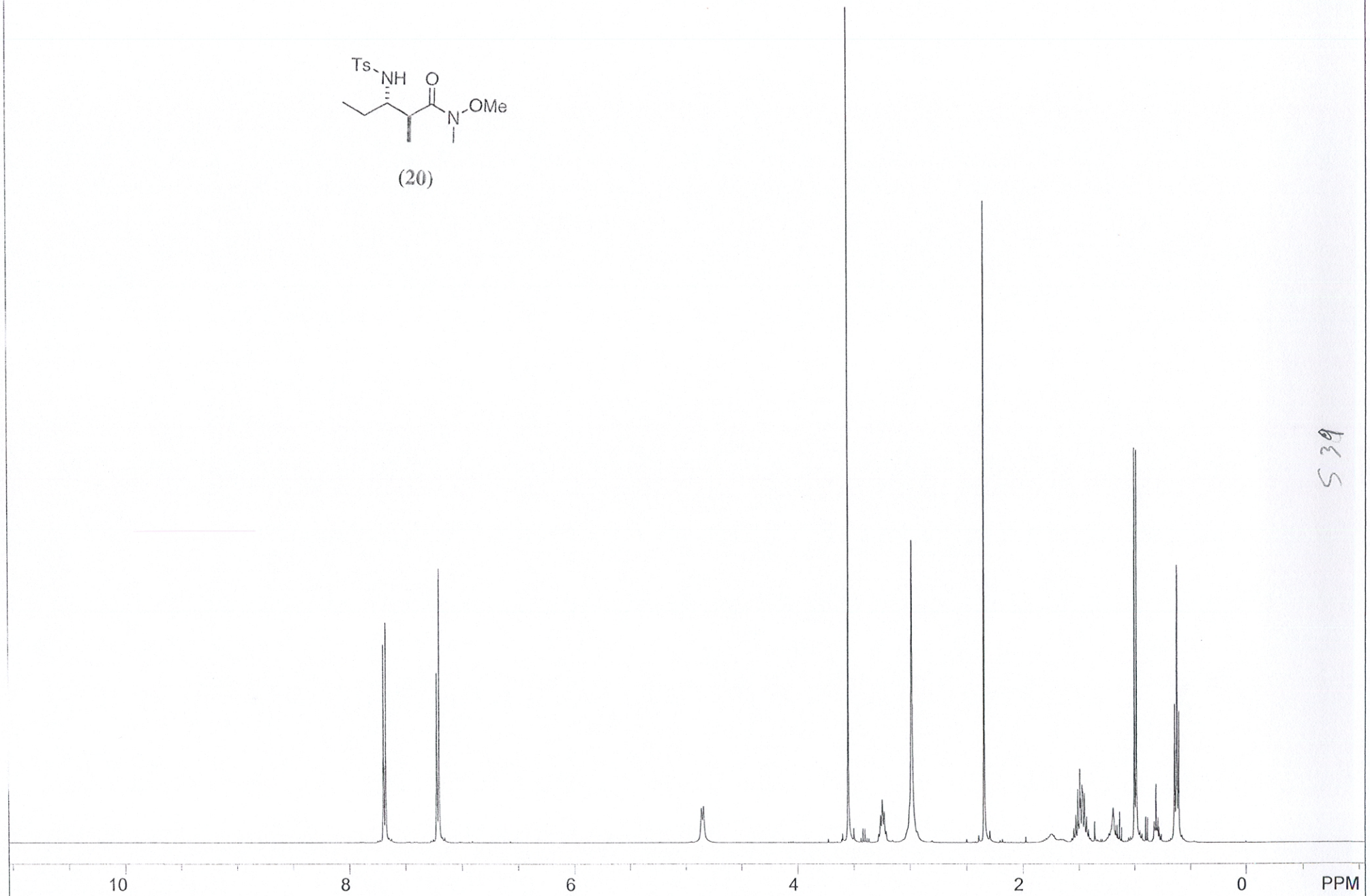
S38

200 150 100 50 0 PPM

MS-II-191A, carbonOVNTE.atm, USER: temple -- DATE: Oct 10 05:31:15 2006 EDT (UT-4h) templ

F1: 100.628	F2: 1.000	SW1: 23148		OF1: 10621.8		PTS1d: 32768
EX:		PW: 5.7 usec	PD: 2.0 sec	NA: 10000	LB: 3.0	WinNuts - $Minsoo.1

(20)



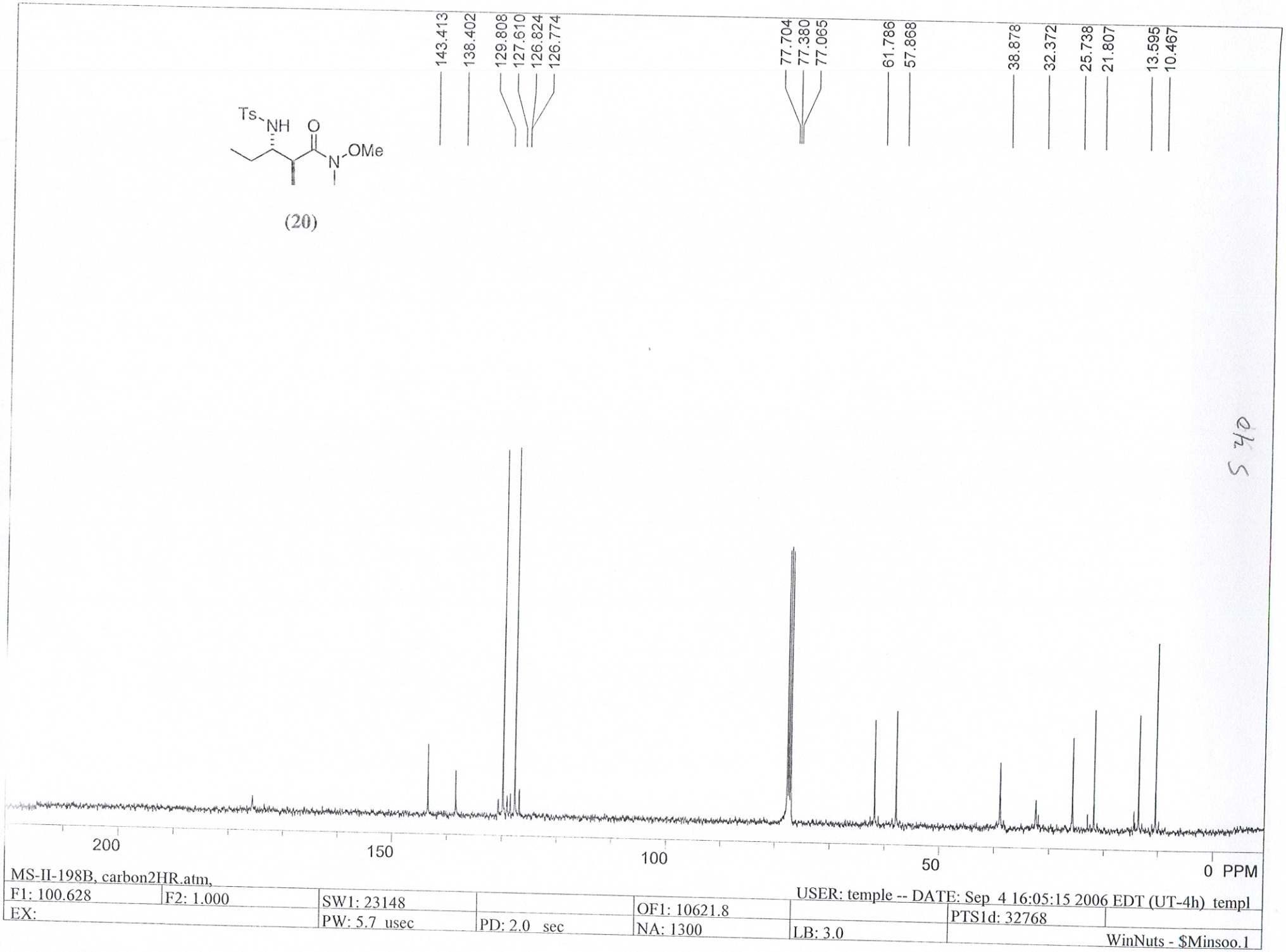
S39

MS-II-198B, proton.atm, USER: temple -- DATE: Sep 4 14:48:37 2006 EDT (UT-4h) templ

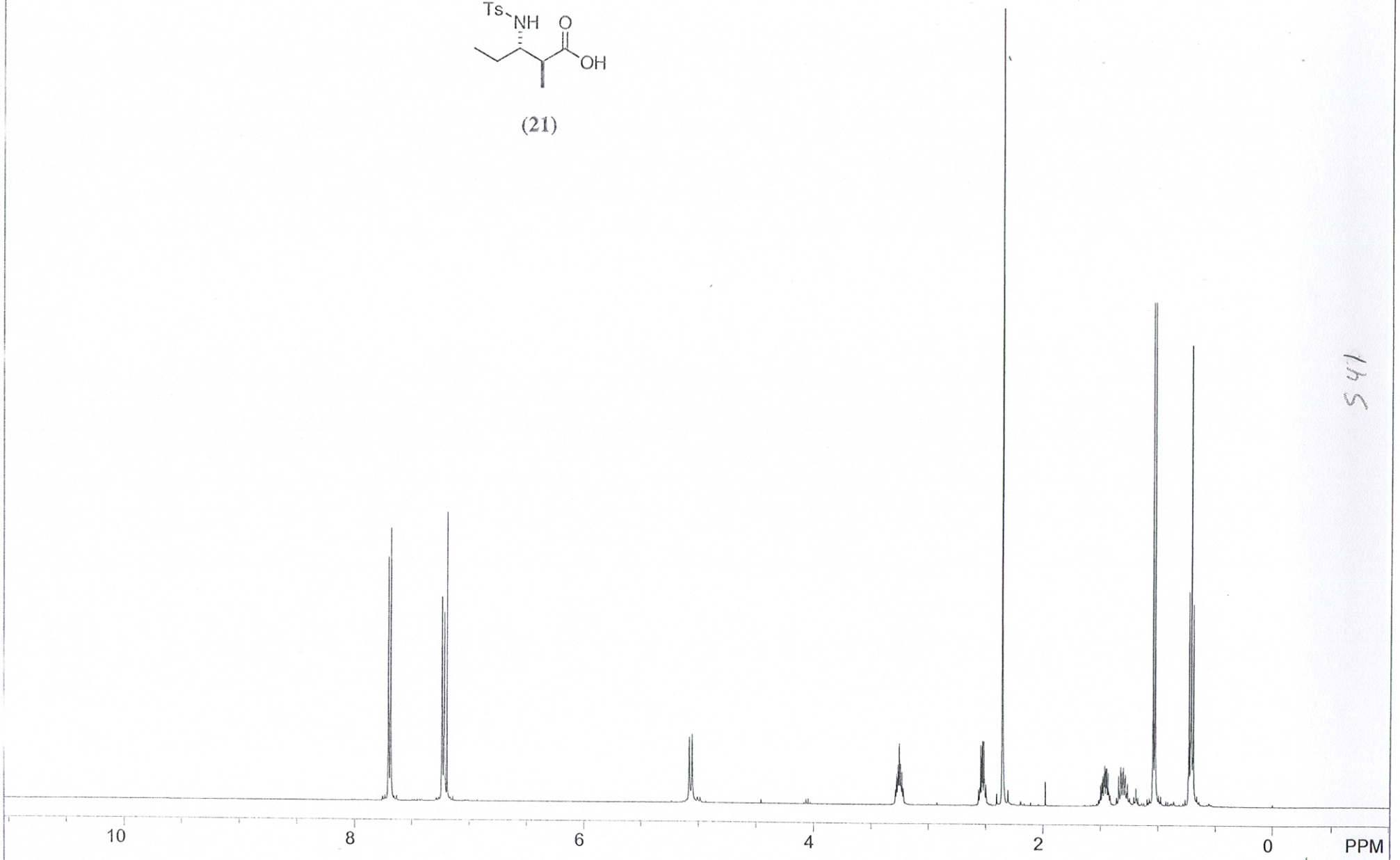
F1: 400.191	F2: 1.000	SW1: 8278		OF1: 1978.8		PTS1d: 32768
EX:		PW: 9.8 usec	PD: 1.0 sec	NA: 16	LB: 0.1	WinNuts - $Minsoo.1

Ts
NH
O
N
OMe

(20)


143.413
138.402
129.808
127.610
126.824
126.774
77.704
77.380
77.065
61.786
57.868
38.878
32.372
25.738
21.807
13.595
10.467
200
150
100
50
0 PPM
MS-II-198B, carbon2HR.atm,
F1: 100.628
F2: 1.000
SW1: 23148
OF1: 10621.8
USER: temple -- DATE: Sep 4 16:05:15 2006 EDT (UT-4h) templ
EX:
PW: 5.7 usec
PD: 2.0 sec
NA: 1300
LB: 3.0
PTS1d: 32768
WinNuts - $Minsoo.1

(21)

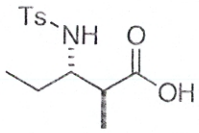


MS-II-204A-F1, proton.atm,

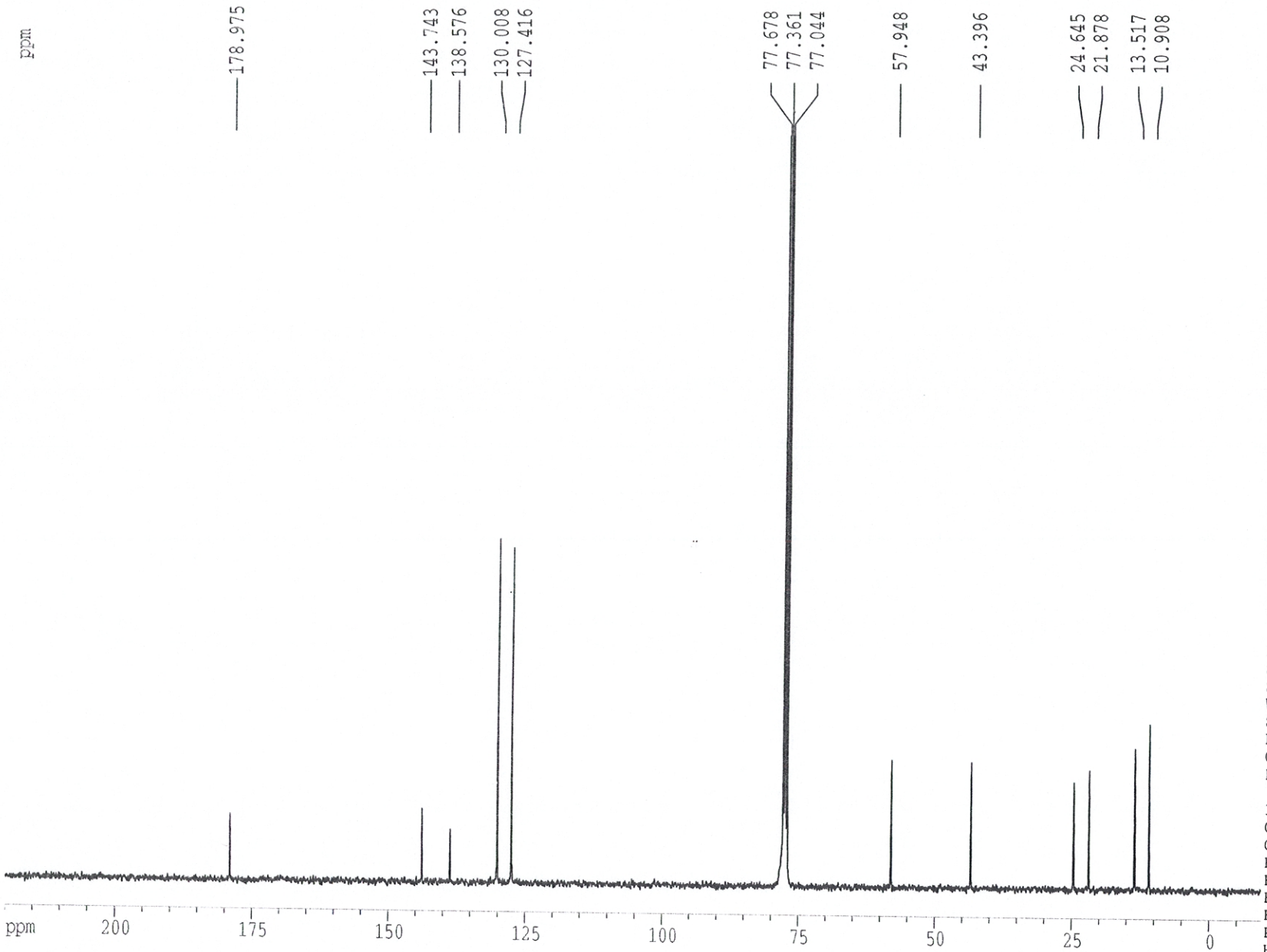
USER: temple -- DATE: Sep 7 19:11:28 2006 EDT (UT-4h) templ

F1: 400.191	F2: 1.000	SW1: 8278		OF1: 1974.6		PTS1d: 32768	
EX:		PW: 9.8 usec	PD: 1.0 sec	NA: 60	LB: 0.1		WinNuts - $Minsoo.1

145



(21)



Current Data Parameters

NAME	minsoo
EXPNO	511
PROCNO	1

F2 - Acquisition Parameters

Date_	20060908
Time	4.43
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg60
TD	65536
SOLVENT	CDCl3
NS	10000
DS	2
SWH	23148.148 Hz
FIDRES	0.353213 Hz
AQ	1.4156276 sec
RG	406.4
DW	21.600 usec
DE	6.00 usec
TE	300.0 K
D1	2.00000000 sec
d11	0.03000000 sec
d12	0.00002000 sec

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

NUC1	13C
P1	5.70 usec
PL1	2.00 dB
SFO1	100.6387191 MHz

======== CHANNEL f2 ========

CPDPRG2	waltz16
NUC2	1H
PCPD2	92.00 usec
PL2	0.00 dB
PL12	11.00 dB
PL13	120.00 dB
SFO2	400.1927165 MHz

F2 - Processing parameters

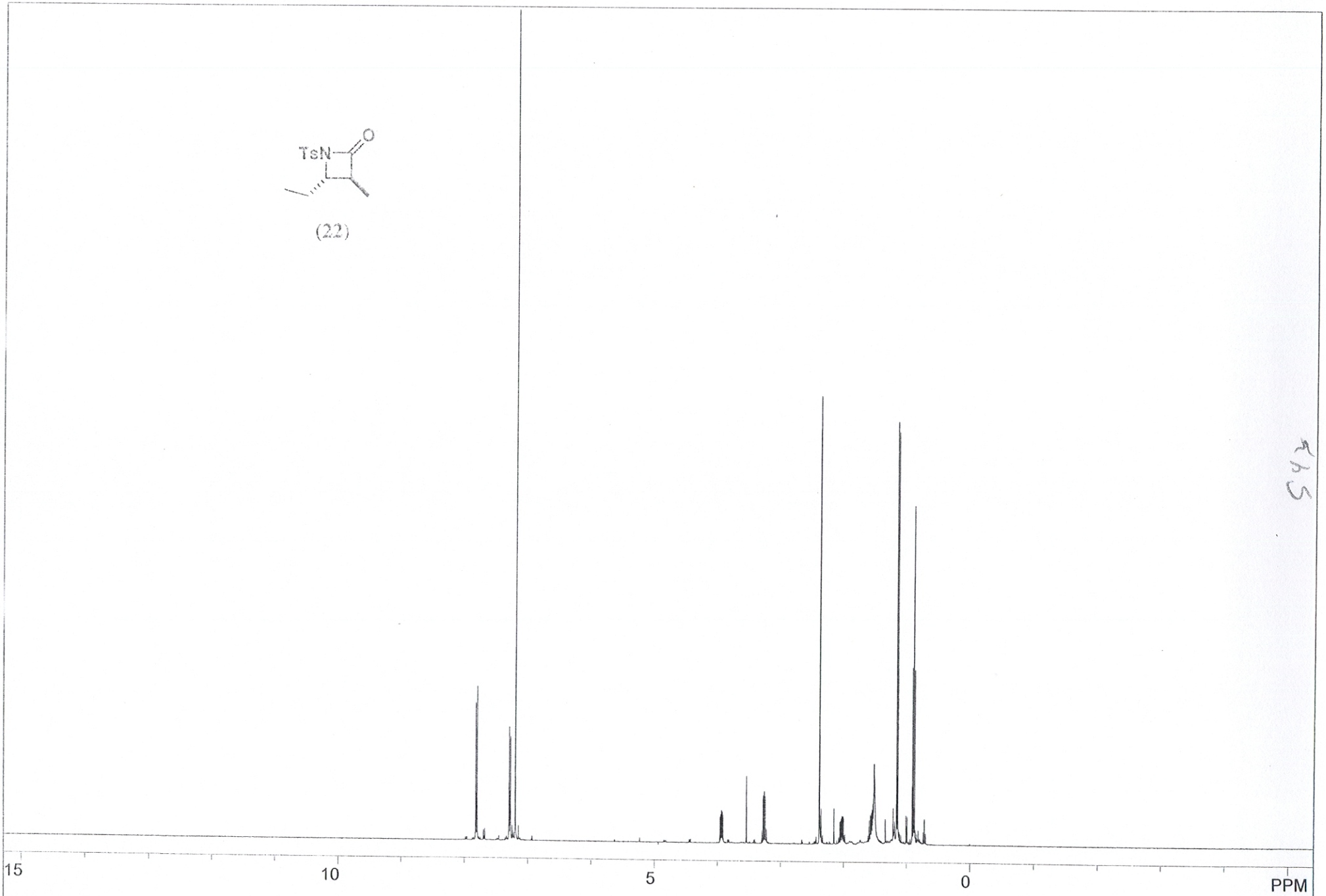
SI	32768
SF	100.6280960 MHz
WDW	EM
SSB	0
LB	3.00 Hz
GB	0
PC	1.40

1D NMR plot parameters

CX	22.00 cm
CY	6.00 cm
F1P	220.000 ppm
F1	22138.18 Hz
F2P	-10.000 ppm
F2	-1006.28 Hz
PPMCM	10.45455 ppm/cm
HZCM	1052.02112 Hz/cm

245

(22)



MS-II-205A, proton.atm,

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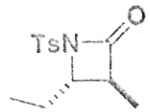
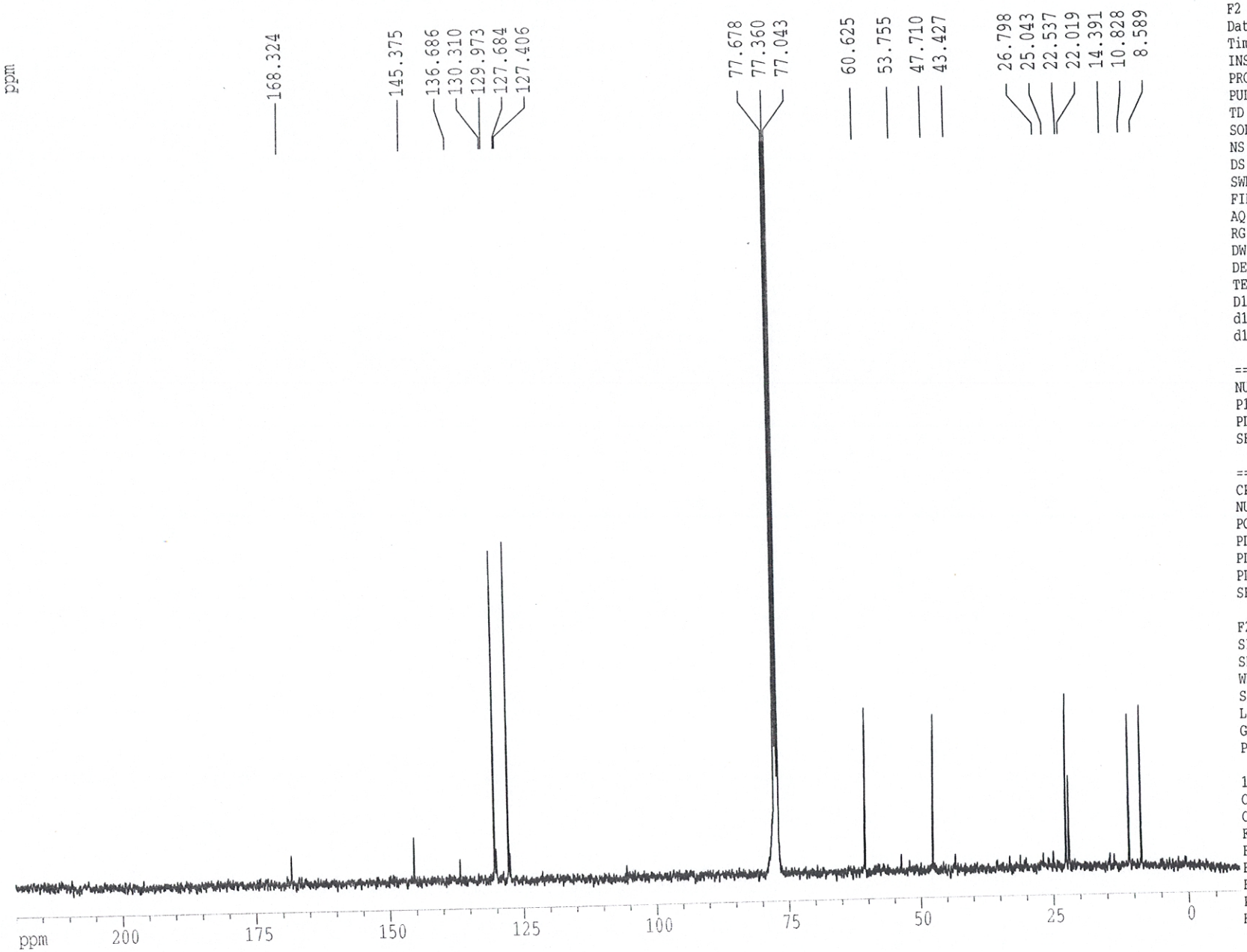
EX:		PW: 9.8 usec	PD: 1.0 sec	NA: 16	LB: 0.1	

USER: temple -- DATE: Sep 18 15:42:38 2006 EDT (UT-4h) templ

WinNuts - $Minsoo.1



(22)



Current Data Parameters

NAME	minsoo
EXPNO	514
PROCNO	1

F2 - Acquisition Parameters

Date_	20060921
Time	4.53
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	zgpg60
TD	65536
SOLVENT	CDCl3
NS	12000
DS	2
SWH	23148.148 Hz
FIDRES	0.353213 Hz
AQ	1.4156276 sec
RG	161.3
DW	21.600 usec
DE	6.00 usec
TE	300.0 K
D1	2.00000000 sec
d11	0.03000000 sec
d12	0.00002000 sec

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

NUC1	13C
P1	5.70 usec
PL1	2.00 dB
SFO1	100.6387191 MHz

======== CHANNEL f2 ========

CPDPRG2	waltz16
NUC2	1H
PCPD2	92.00 usec
PL2	0.00 dB
PL12	11.00 dB
PL13	120.00 dB
SFO2	400.1927165 MHz

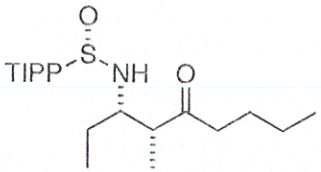
F2 - Processing parameters

SI	32768
SF	100.6280960 MHz
WDW	EM
SSB	0
LB	3.00 Hz
GB	0
PC	1.40

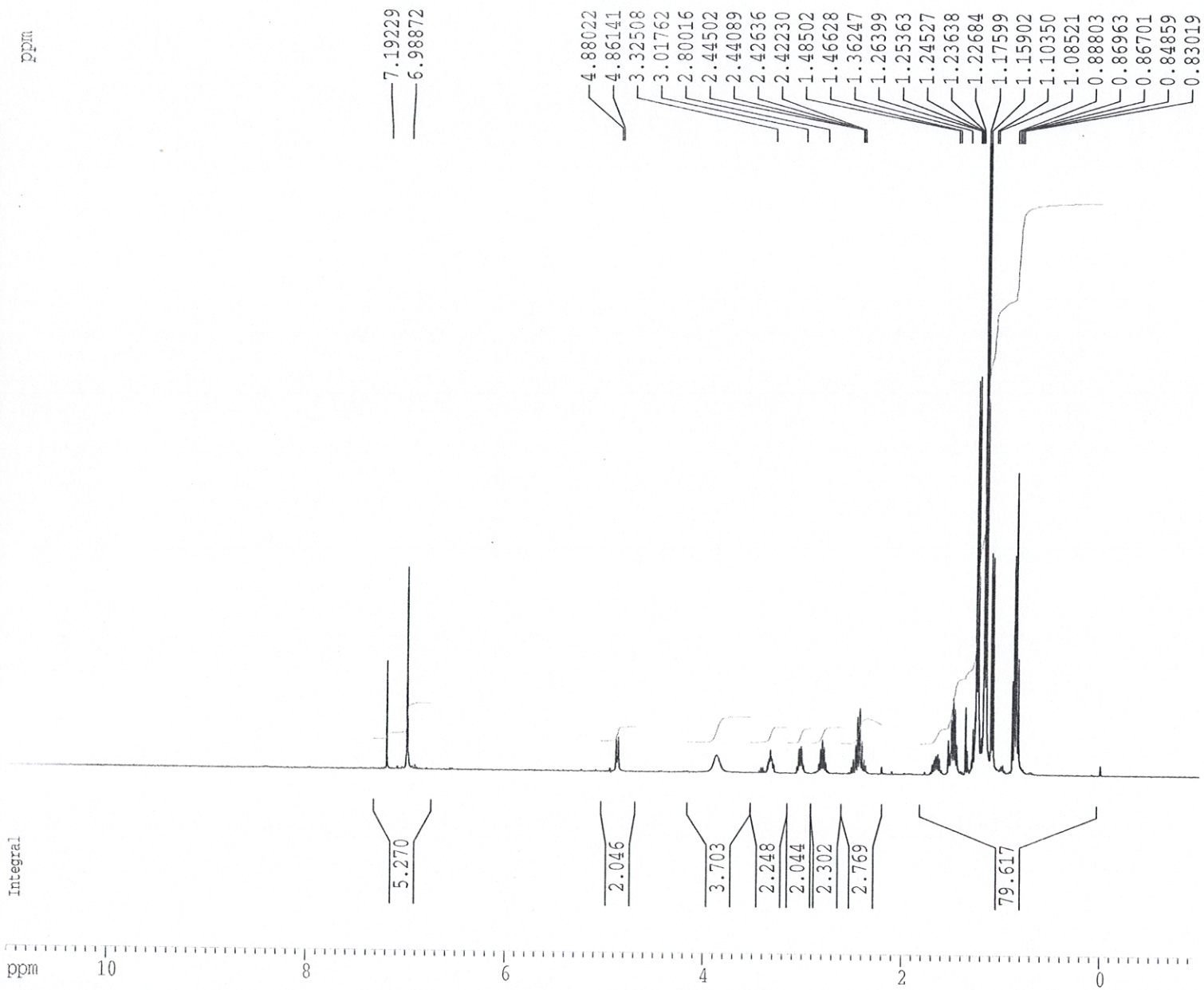
1D NMR plot parameters

CX	22.00 cm
CY	6.00 cm
F1P	220.000 ppm
F1	22138.18 Hz
F2P	-10.000 ppm
F2	-1006.28 Hz
PPMCM	10.45455 ppm/cm
HZCM	1052.02112 Hz/cm

S44



(23a)



Current Data Parameters
NAME minsoo
EXPNO 558
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070221
Time 17.10
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 228.1
DW 60.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

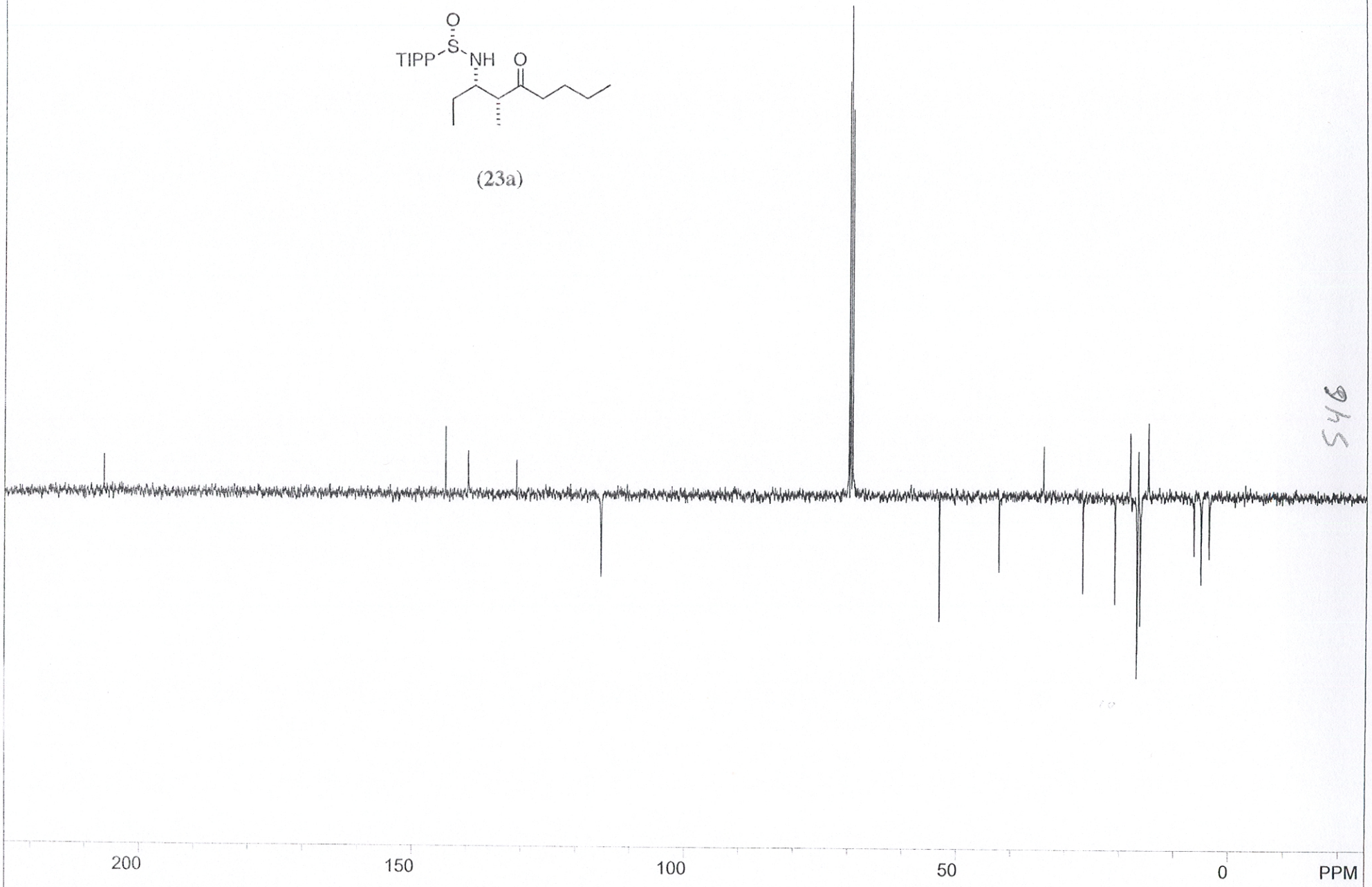
======== CHANNEL f1 ========
NUC1 1H
P1 9.80 usec
PL1 0.00 dB
SFO1 400.1931165 MHz

F2 - Processing parameters
SI 32768
SF 400.1911414 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
CY 12.50 cm
F1P 11.000 ppm
F1 4402.10 Hz
F2P -1.000 ppm
F2 -400.19 Hz
PPMCM 0.60000 ppm/cm
HZCM 240.11469 Hz/cm

S45

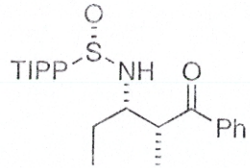
(23a)



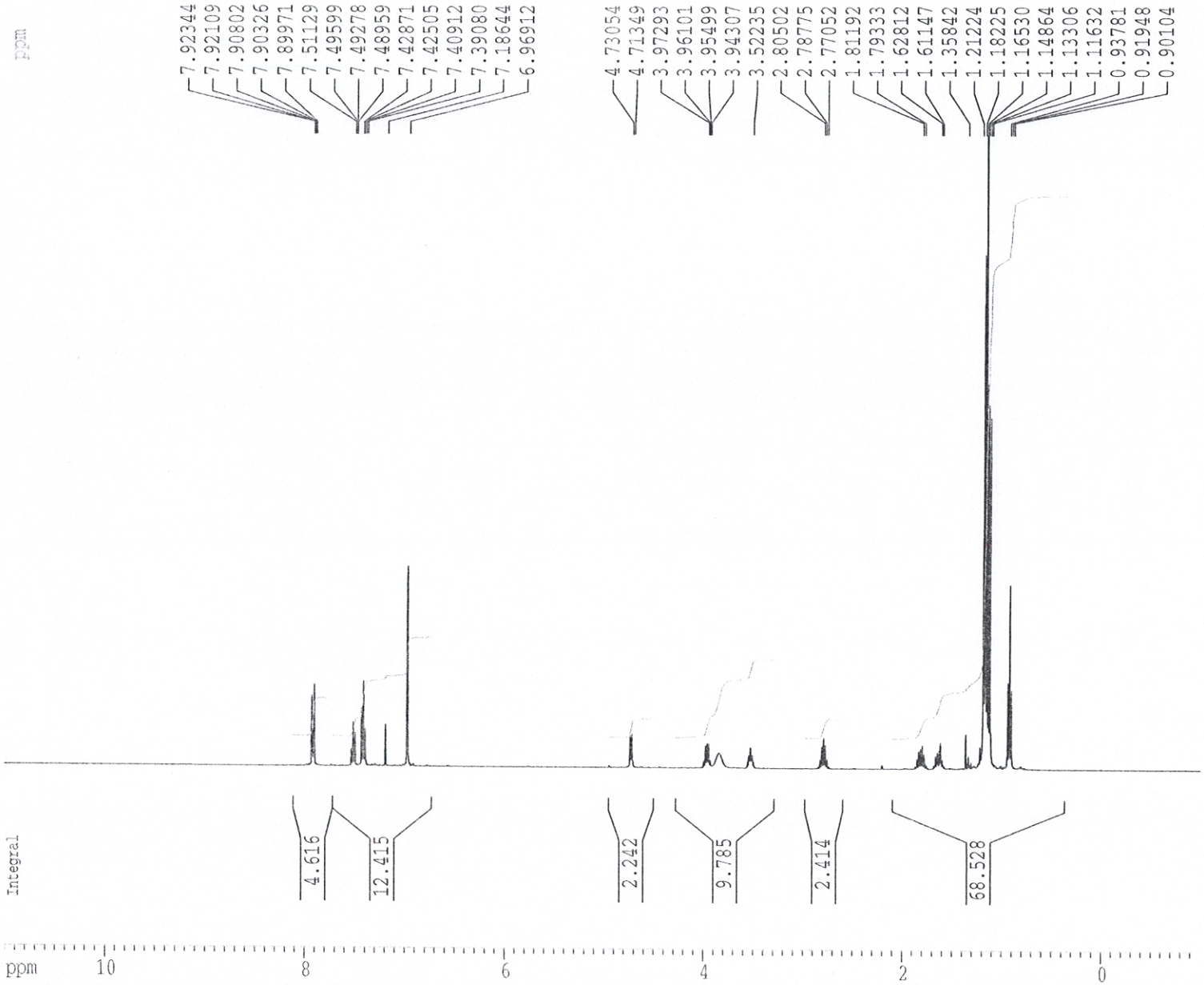
MS-II-291A, pendant90MIN.atm, USER: temple -- DATE: Feb 21 13:18:38 2007 EST (UT-5h) templ

F1: 100.629	F2: 1.000	SW1: 25126		OF1: 10057.3		PTS1d: 65536	
EX:		PW: 5.7 usec	PD: 4.0 sec	NA: 750	LB: 3.0		WinNuts - $Minsoo.1

S46



(23b)



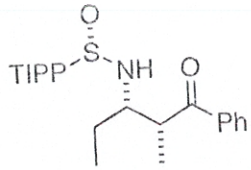
Current Data Parameters
NAME minsoo
EXPNO 573
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070320
Time 14.36
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 0
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 90.5
DW 60.400 usec
DE 6.00 usec
TE 300.0 K
D1 1.00000000 sec

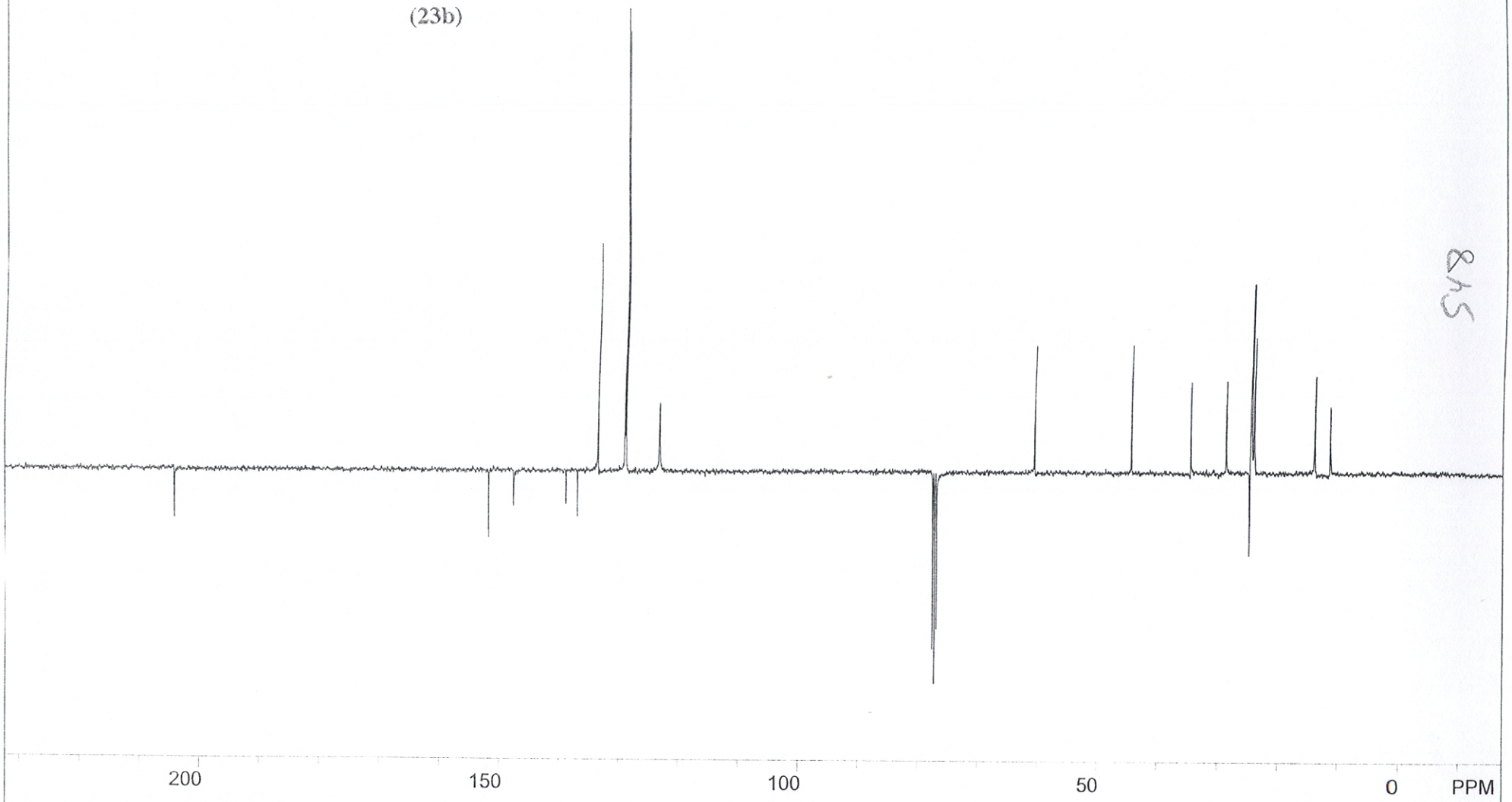
======== CHANNEL f1 ========
NUC1 1H
P1 9.80 usec
PL1 0.00 dB
SFO1 400.1931165 MHz

F2 - Processing parameters
SI 32768
SF 400.1911437 MHz
WDW EM
SSB 0
LB 0.10 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
CY 12.50 cm
F1P 11.000 ppm
F1 4402.10 Hz
F2P -1.000 ppm
F2 -400.19 Hz
PPMCM 0.60000 ppm/cm
HZCM 240.11469 Hz/cm



(23b)



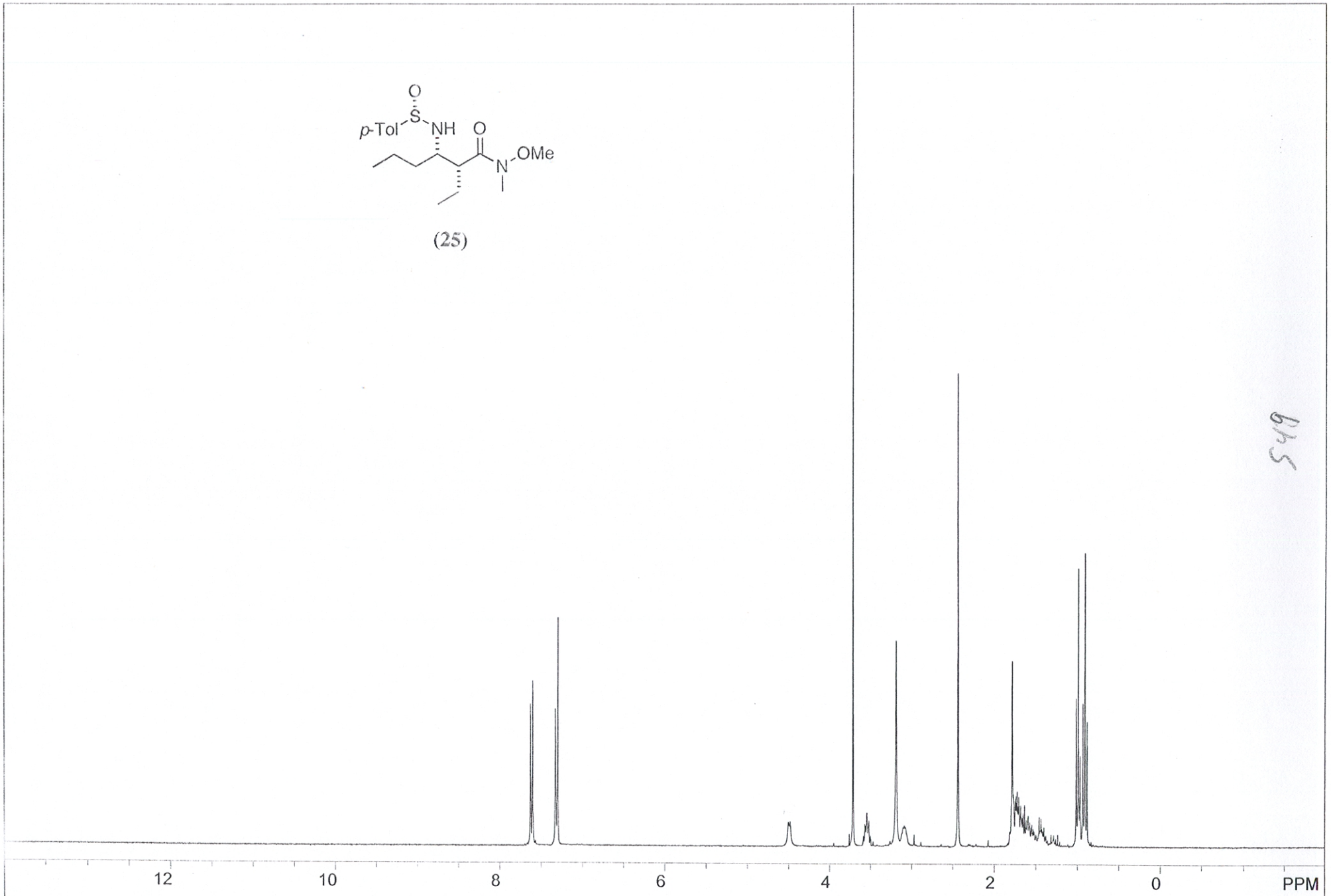
MS-III-32A, pendant90MIN.atm,

USER: temple -- DATE: Mar 20 15:50:45 2007 EST (UT-5h) templ

F1: 100.629	F2: 1.000	SW1: 25126		OF1: 10820.0		PTS1d: 65536	
EX:		PW: 5.7 usec	PD: 4.0 sec	NA: 800	LB: 3.0		WinNuts - $Minsoo.1

845

(25)



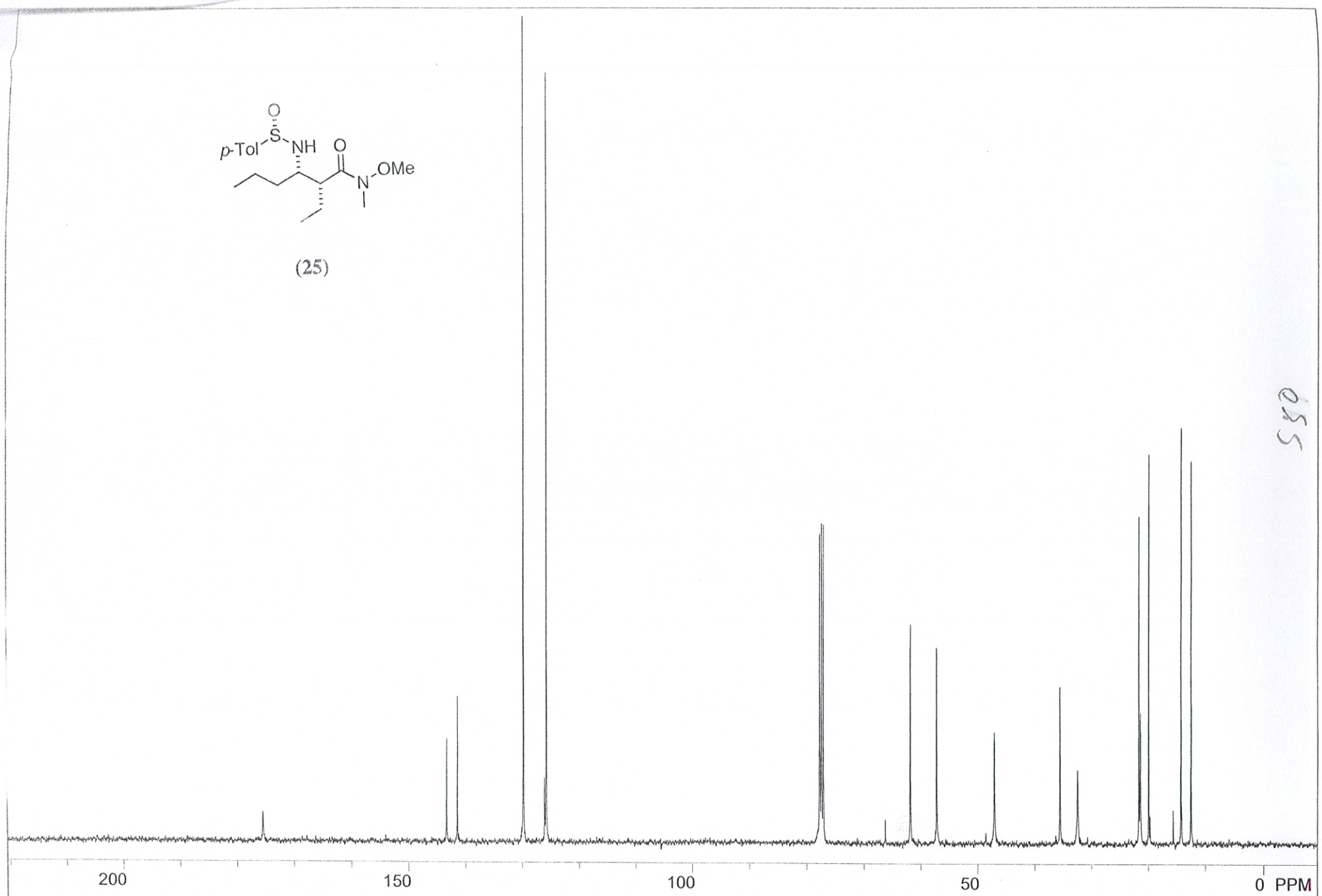
MS-II-201B-F2

USER: -- DATE: Aug 29 2006

F1: 300.018	F2: 300.018	SW1: 4800		OF1: 1800.2		PTS1d: 16384	
EX: s2pul		PW: 4.0 usec	PD: 1.0 sec	NA: 8	LB: 0.0		WinNuts - $PROTON.fid

S49

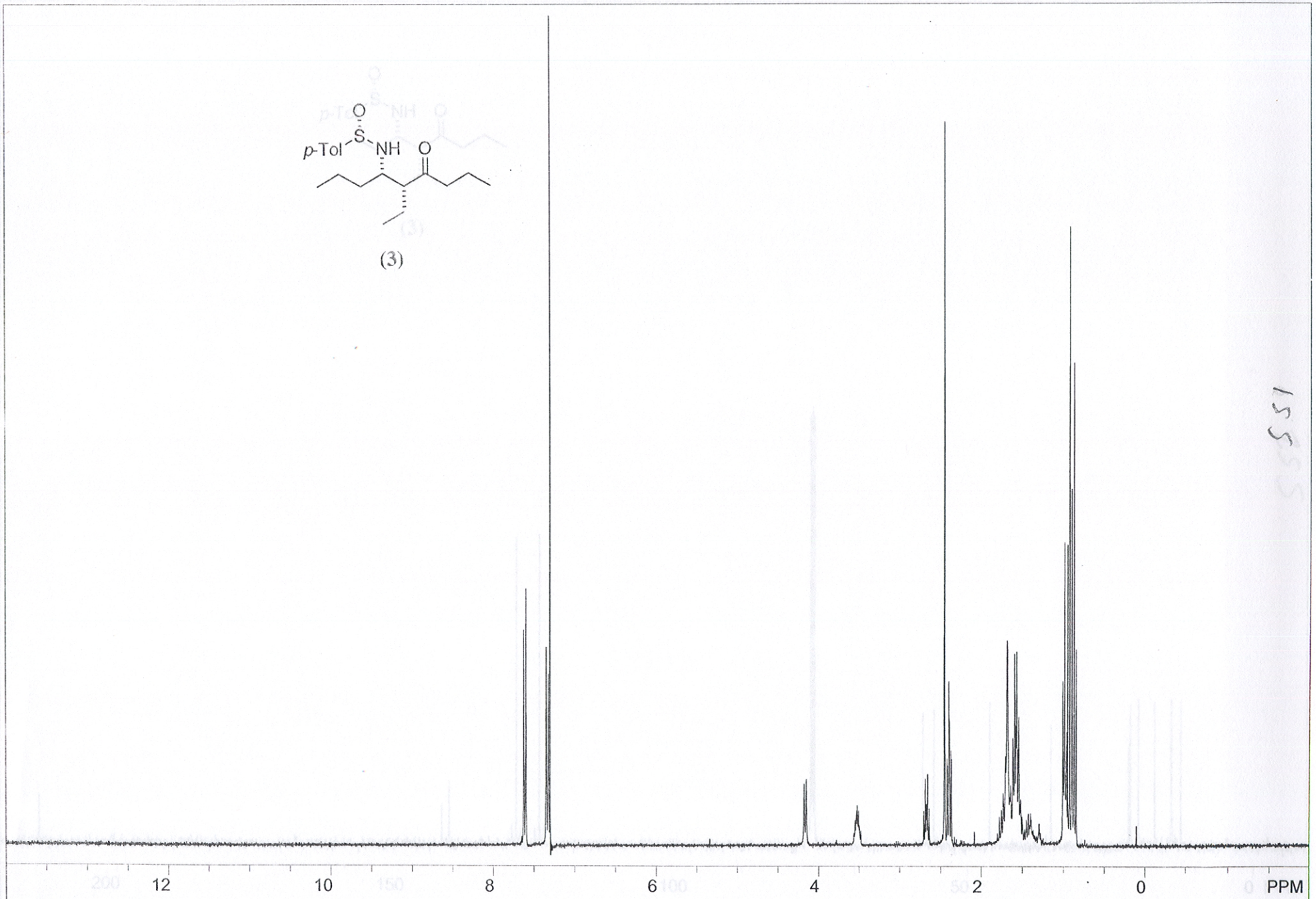
(25)



MS-II-210B-F1, carbon2HR.atm, USER: temple -- DATE: Oct 9 19:42:32 2006 EDT (UT-4h) templ

F1: 100.628	F2: 1.000	SW1: 23148		OF1: 10621.8		PTS1d: 32768
EX:		PW: 5.7 usec	PD: 2.0 sec	NA: 2048	LB: 3.0	WinNuts - $Minsoo.1

(3)



MS-II-190CprepB						USER: -- DATE: Aug 27 2006
F1: 300.018	F2: 300.018	SW1: 4800		OF1: 1800.2		PTS1d: 16384
EX: s2pul		PW: 4.0 usec	PD: 1.0 sec	NA: 8	LB: 0.0	WinNuts - $PROTON.fid

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