

BRUK

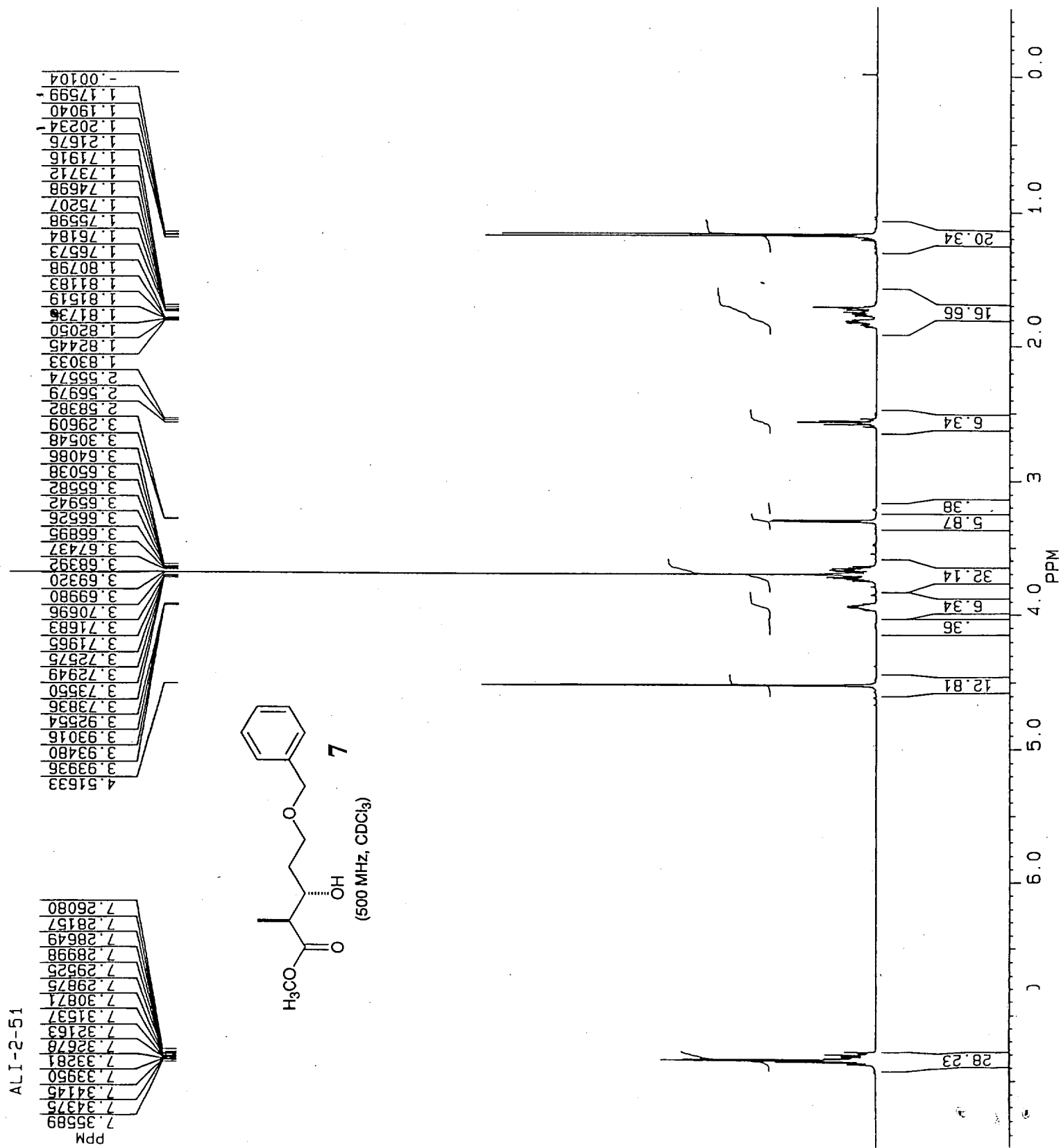
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DATE 2-8-95

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TD 32768
SW 5024.096
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PW 5.0
RD 0.0
AQ 2.720
RG 20
NS 16
TE 297

FW 7500
O2 0.0
DP 63L P0

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GB 0.0
CX 22.00
CY 0.0
F1 8.000
F2 -500
HZ/CM 193.233
PPM/CM 386
SR 5420.93

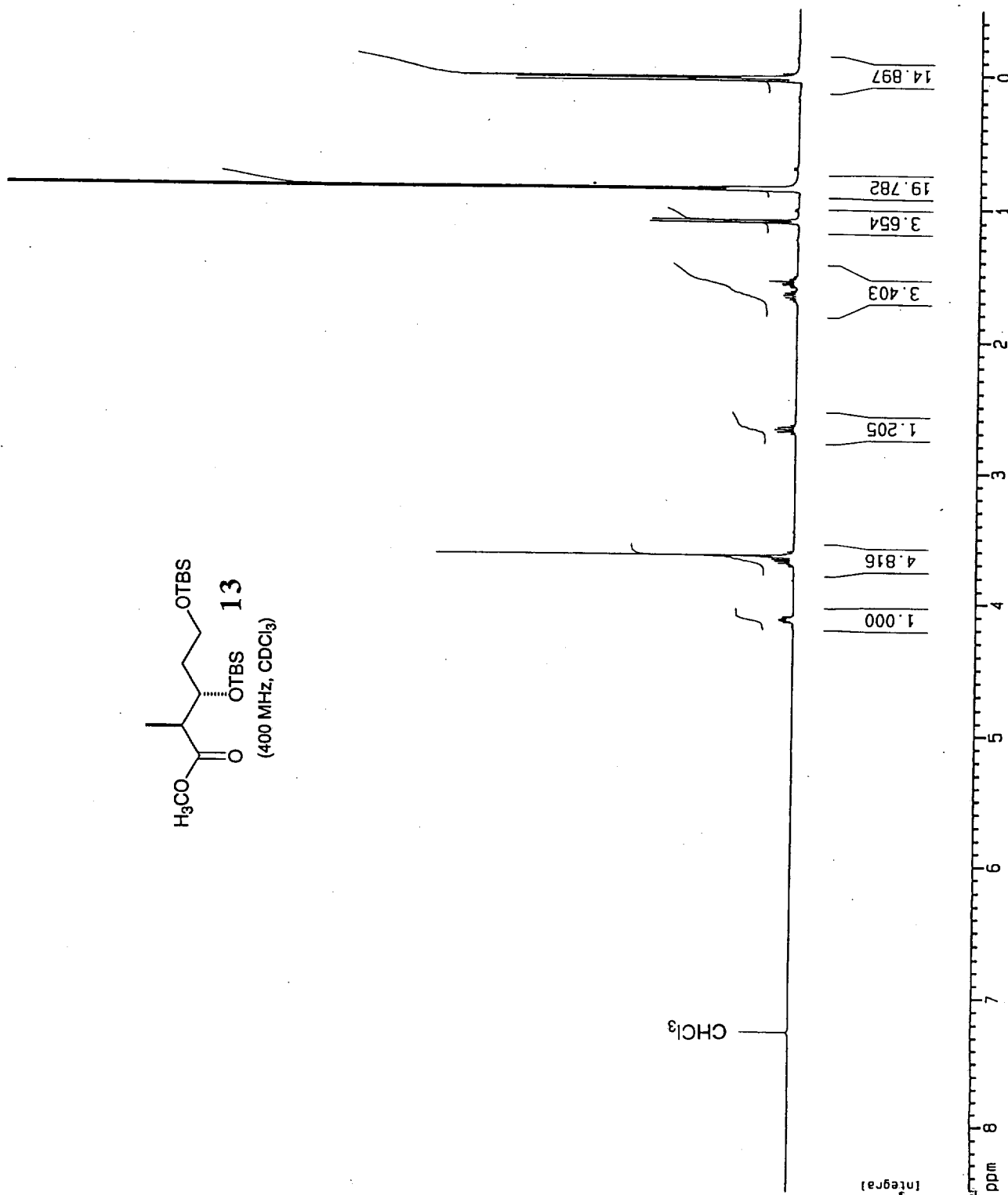
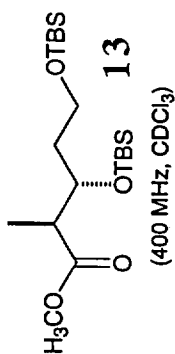


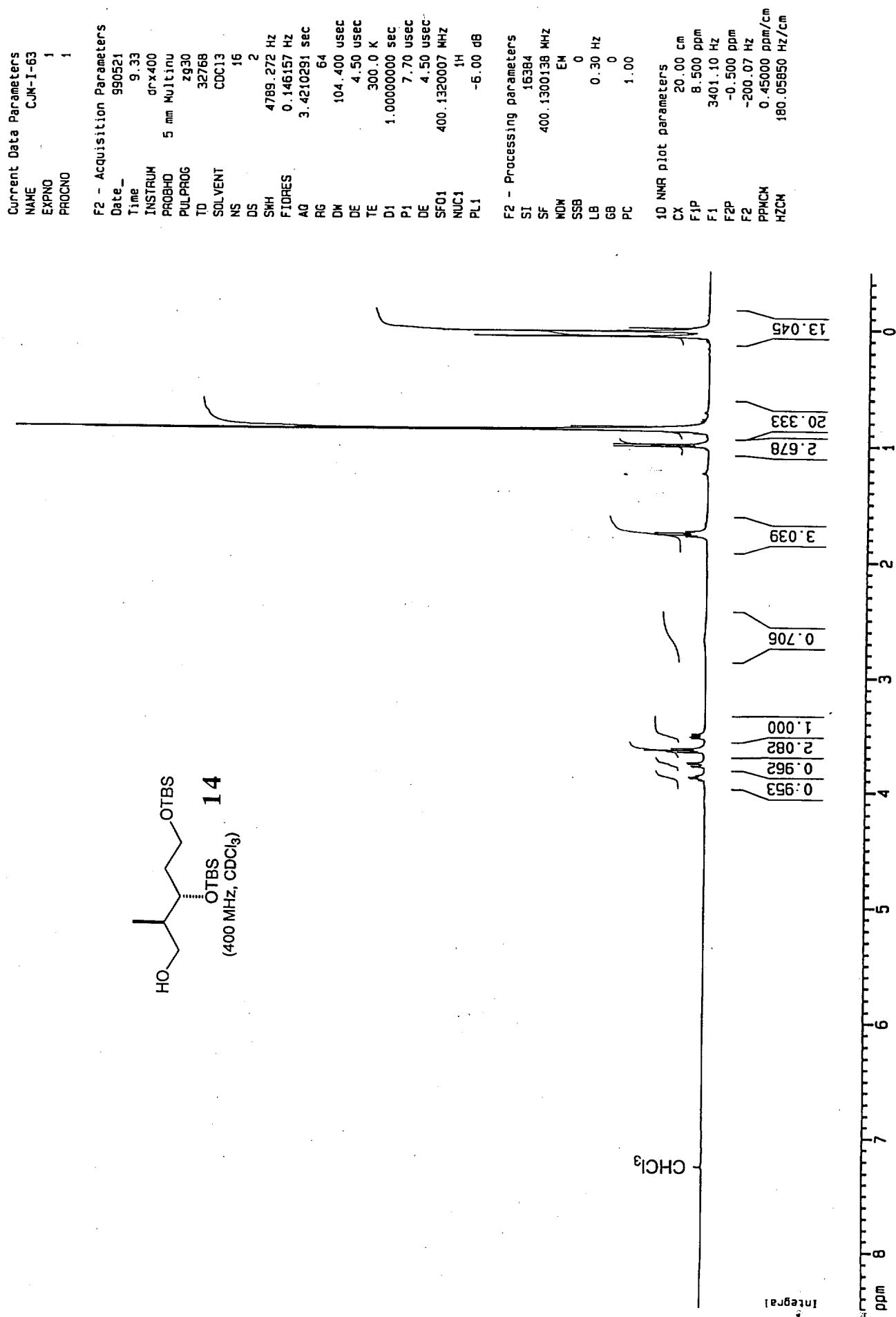
Current Data Parameters
 NAME CJM-I-50H
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
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 Time 10.46
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 15
 DS 2
 SWH 4789.272 Hz
 FIDRES 0.146157 Hz
 AQ 3.4210291 sec
 RG 128
 DM 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SF01 400.1320007 MHz
 NUC1 1H
 PL1 -6.00 dB

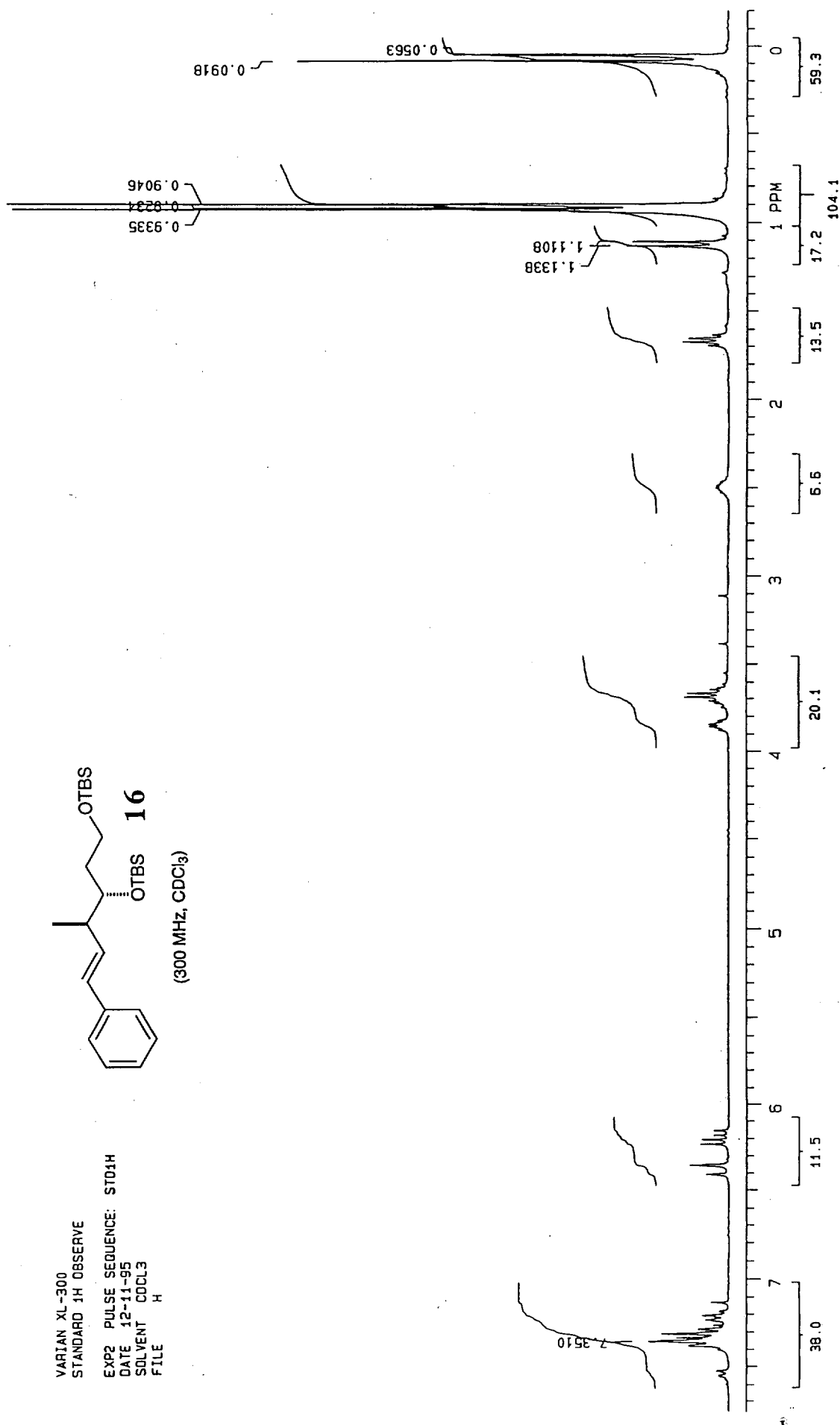
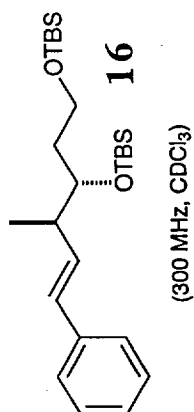
F2 - Processing parameters
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 SF 400.1300138 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 FIP 8.500 ppm
 F1 3401.10 Hz
 F2P -0.500 ppm
 F2 -200.07 Hz
 PPMCM 0.45000 ppm/cm
 HZCM 180.05850 Hz/cm

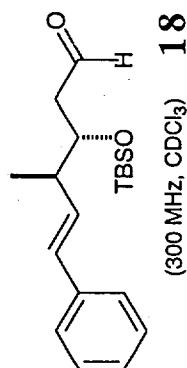




VARIAN XL-300
STANDARD 1H OBSERVE
EXP2 PULSE SEQUENCE
DATE 12-11-95
SOLVENT CDCL3
FILE H

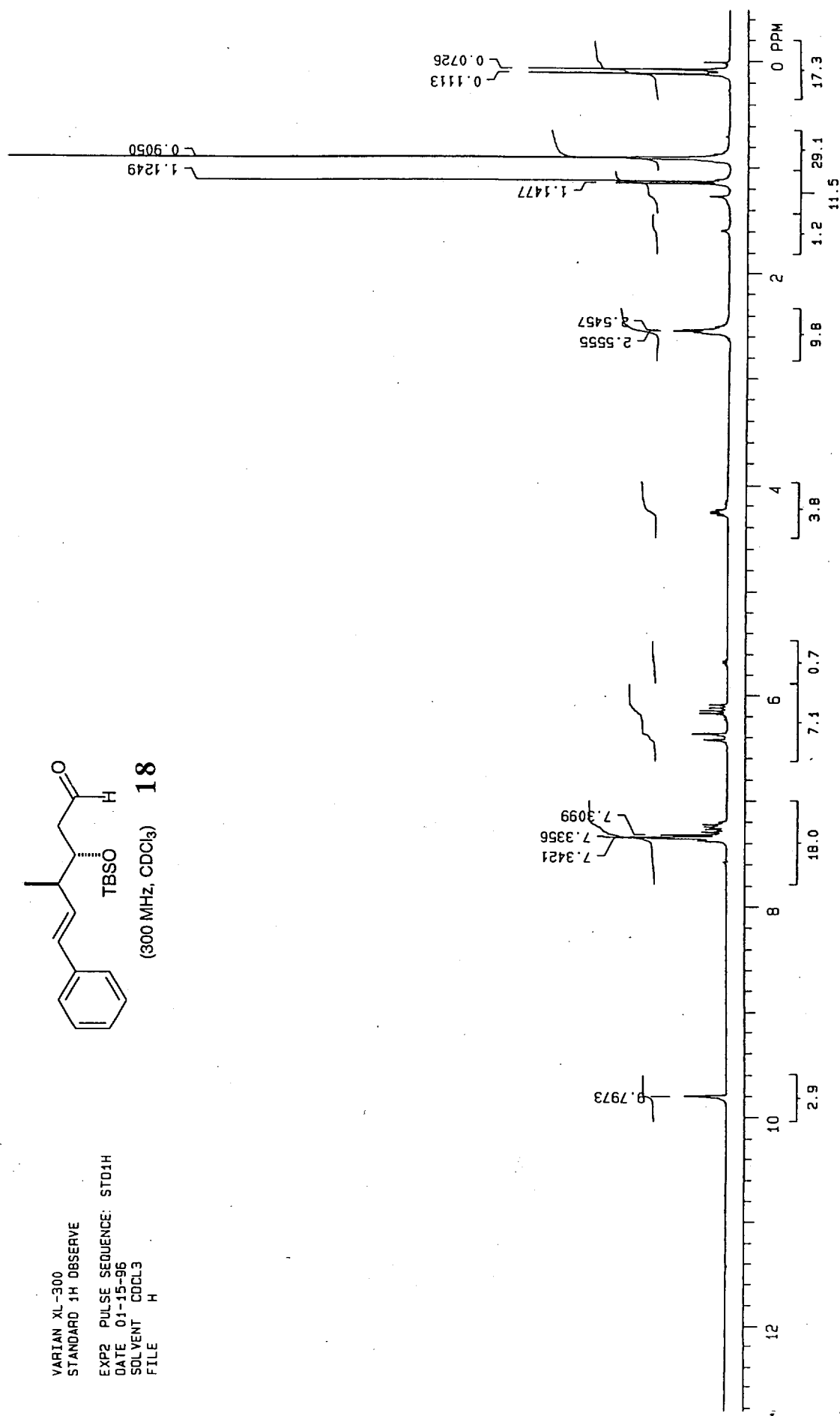


S5



VARIAN XL-300
STANDARD 1H OBSERVE

EXP2 PULSE SEQUENCE: STD1H
DATE 01-15-96
SOLVENT CDCl₃
FILE H



75

Current Data Parameters
NAME HJE-III-bbh
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

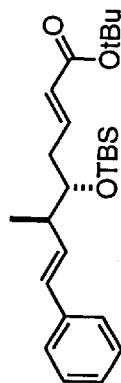
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Time 9.51
INSTRUM drx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 228.1
DW 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 7.70 usec
DE 4.50 usec
SFO1 400.132007 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters

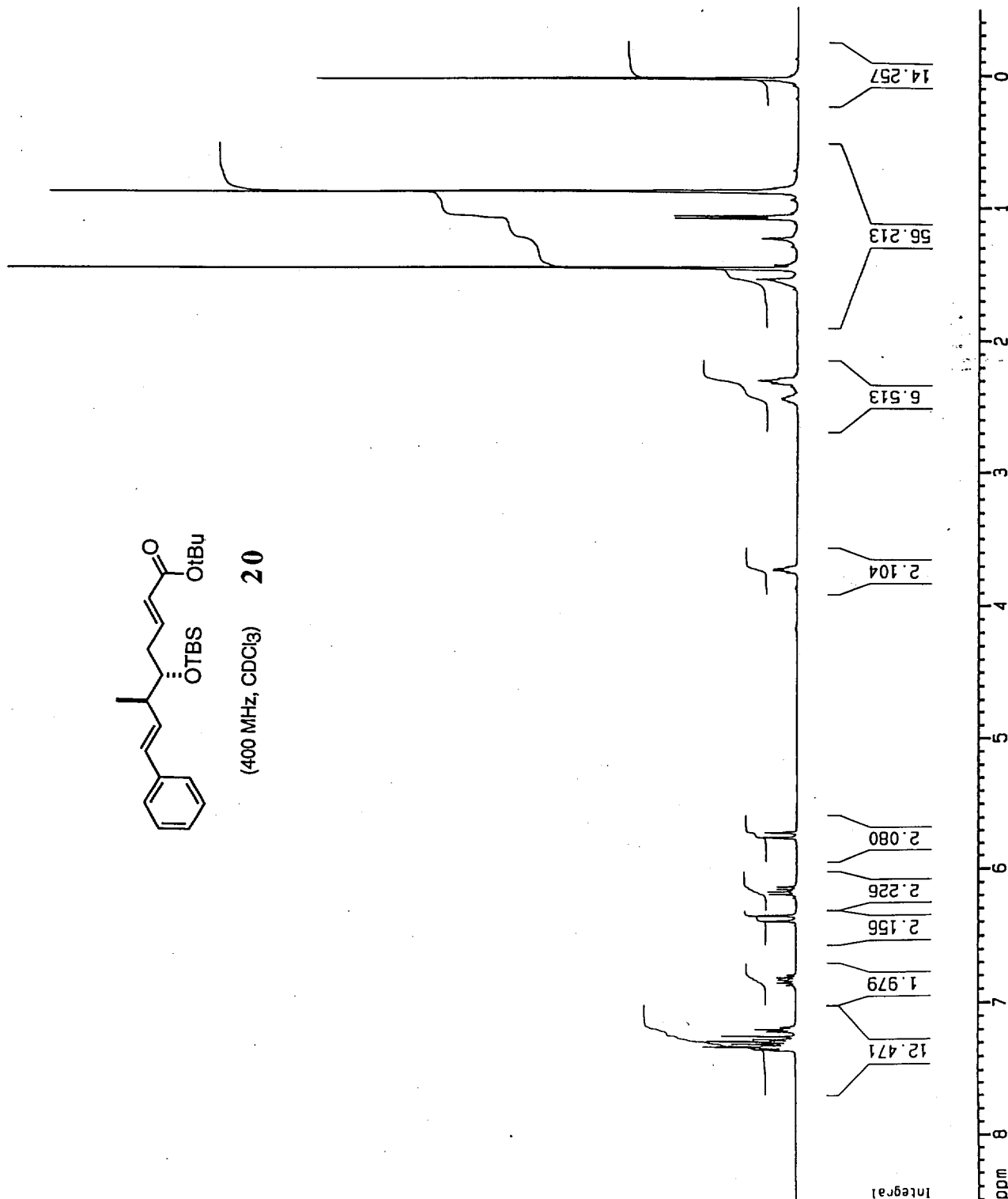
SI 16384
SF 400.1300135 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters

CX 20.00 cm
F1P 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PP4CH 0.45000 ppm/cm
HZCM 180.05850 Hz/cm



(400 MHz, CDCl₃) 20



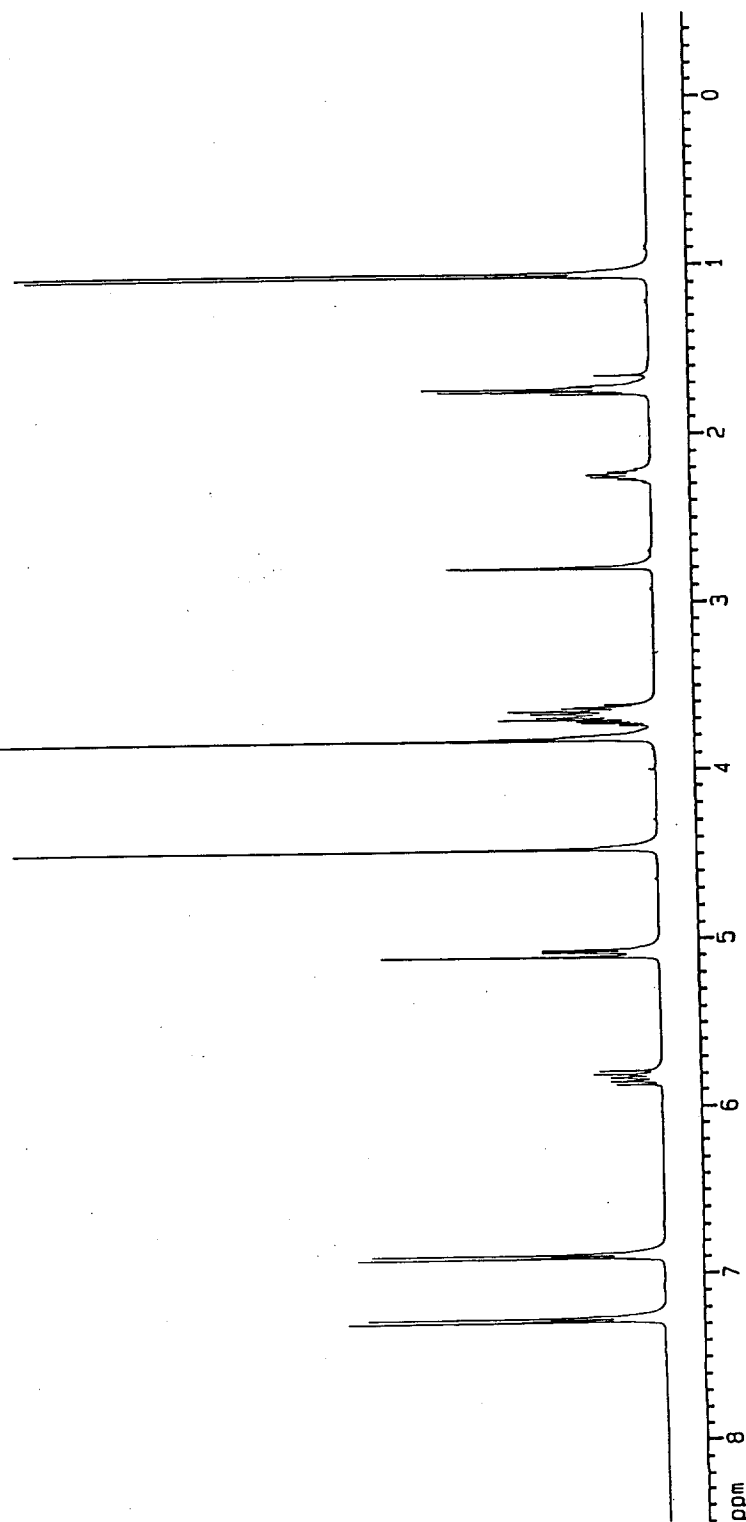
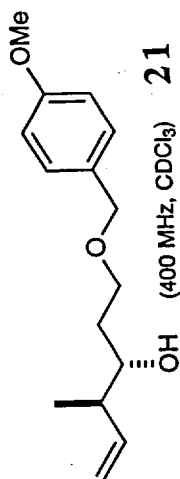
8S

Current Data Parameters
NAME NJE
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
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Time 11.07
INSTRUM drx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 181
DM 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 7.70 usec
DE 4.50 usec
SF01 400.1320007 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 400.1300000 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PPMCM 0.45000 ppm/cm
HZCM 180.05850 Hz/cm



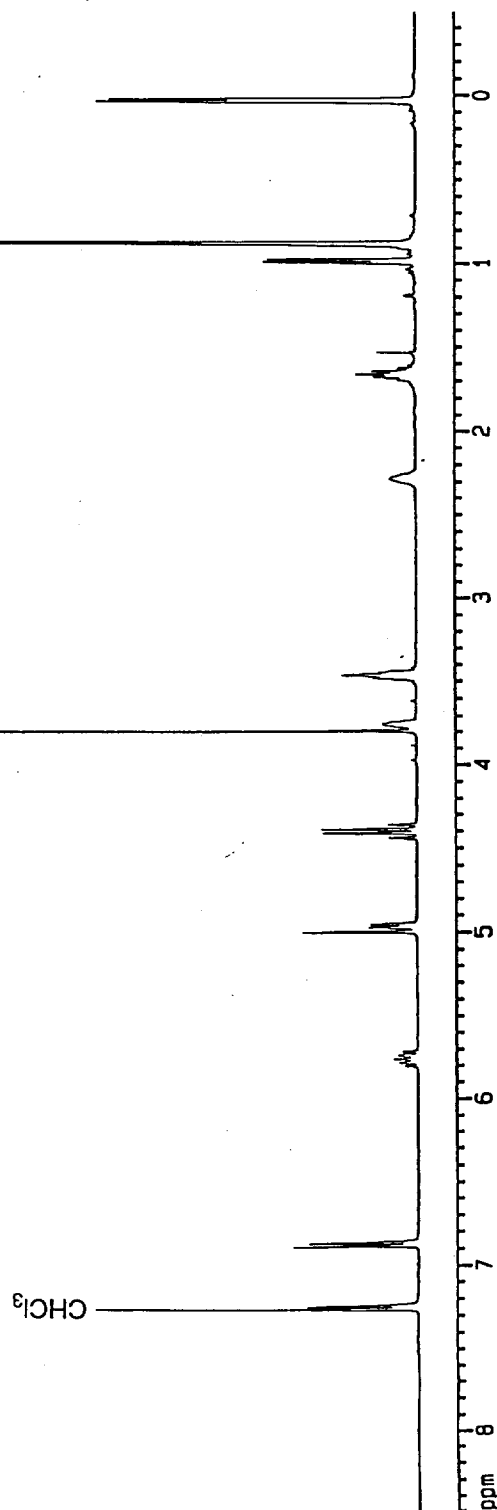
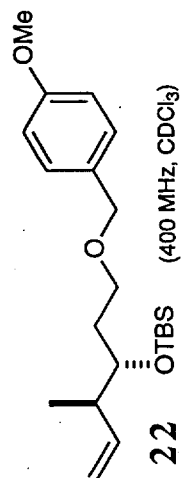
OS

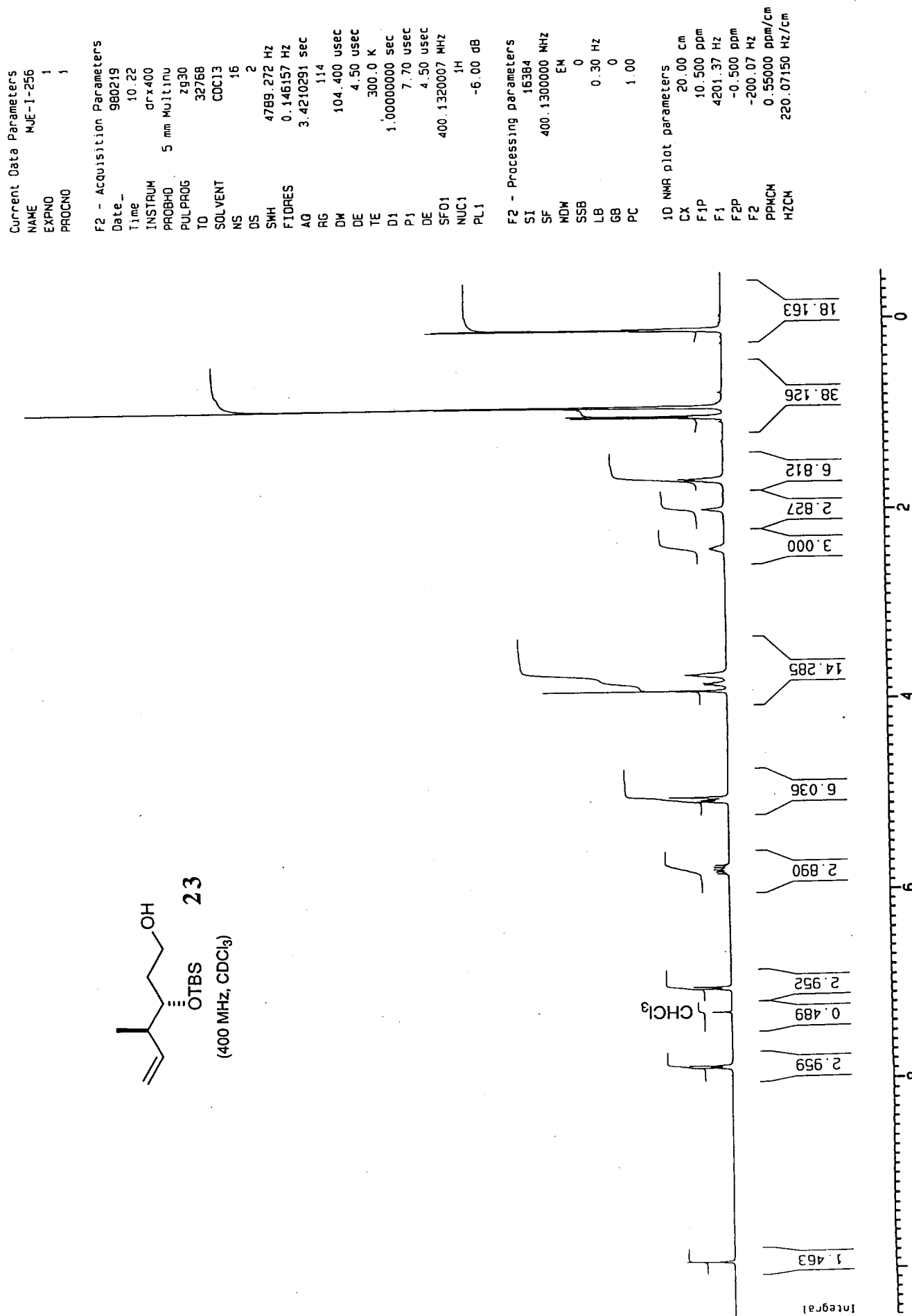
Current Data Parameters
NAME MJE-III-175H
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 990504
Time 14.19
INSTRUM drx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 512
DH 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 7.70 usec
DE 4.50 usec
SF01 400.1320007 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 400.1300135 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PPMCK 0.45000 ppm/cm
HZCK 180.05850 Hz/cm



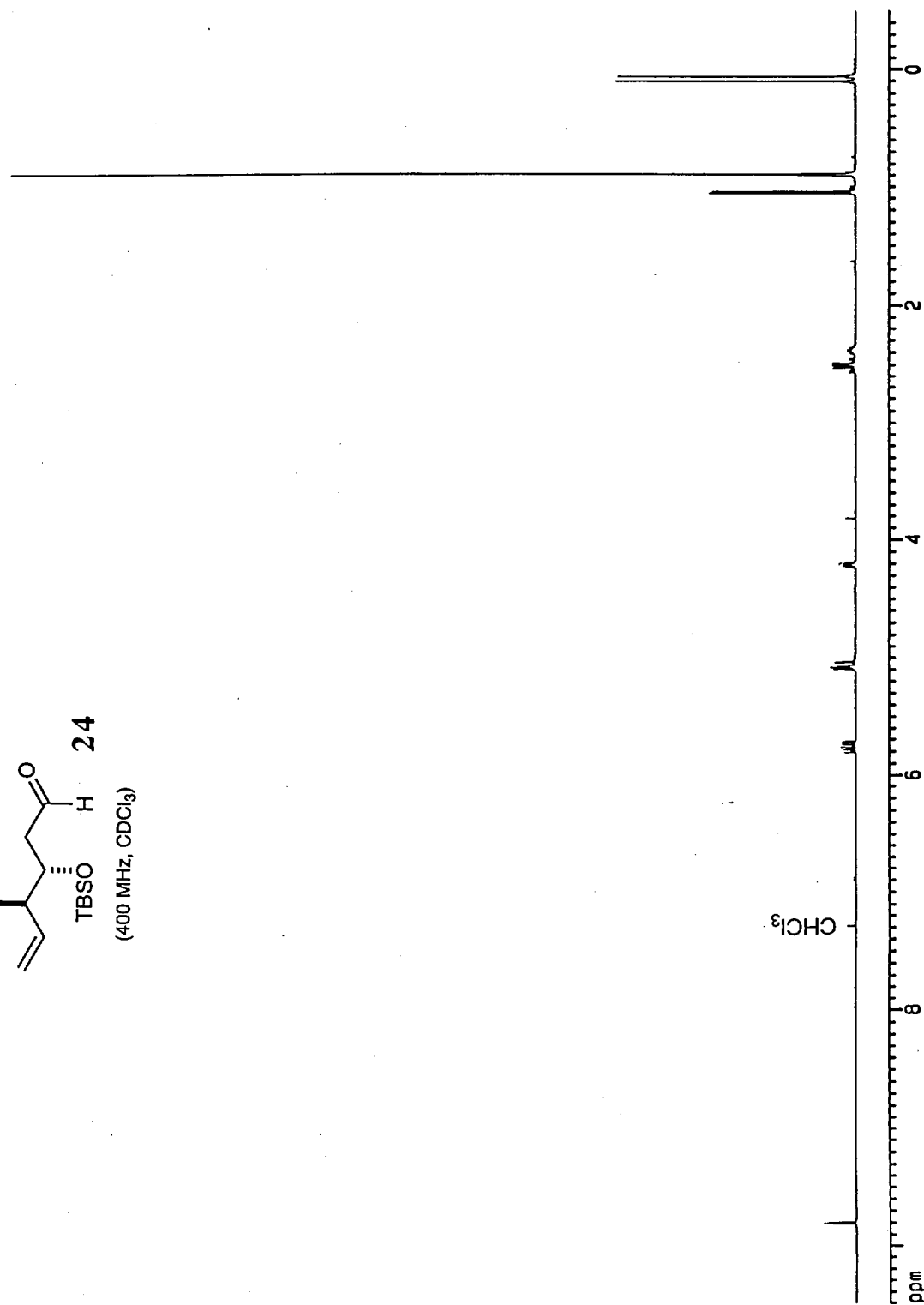
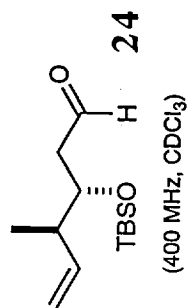


Current Data Parameters
 NAME HJE-III-177H
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 990506
 Time 11.45
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TO 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 4789.272 Hz
 FIDRES 0.146157 Hz
 AQ 3.4210291 sec
 RG 64
 DW 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SF01 400.1320007 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 400.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 FIP 10.500 ppm
 F1 4201.37 Hz
 F2P -0.500 ppm
 F2 -200.07 Hz
 PPMCM 0.55000 ppm/cm
 HZCM 220.07150 Hz/cm



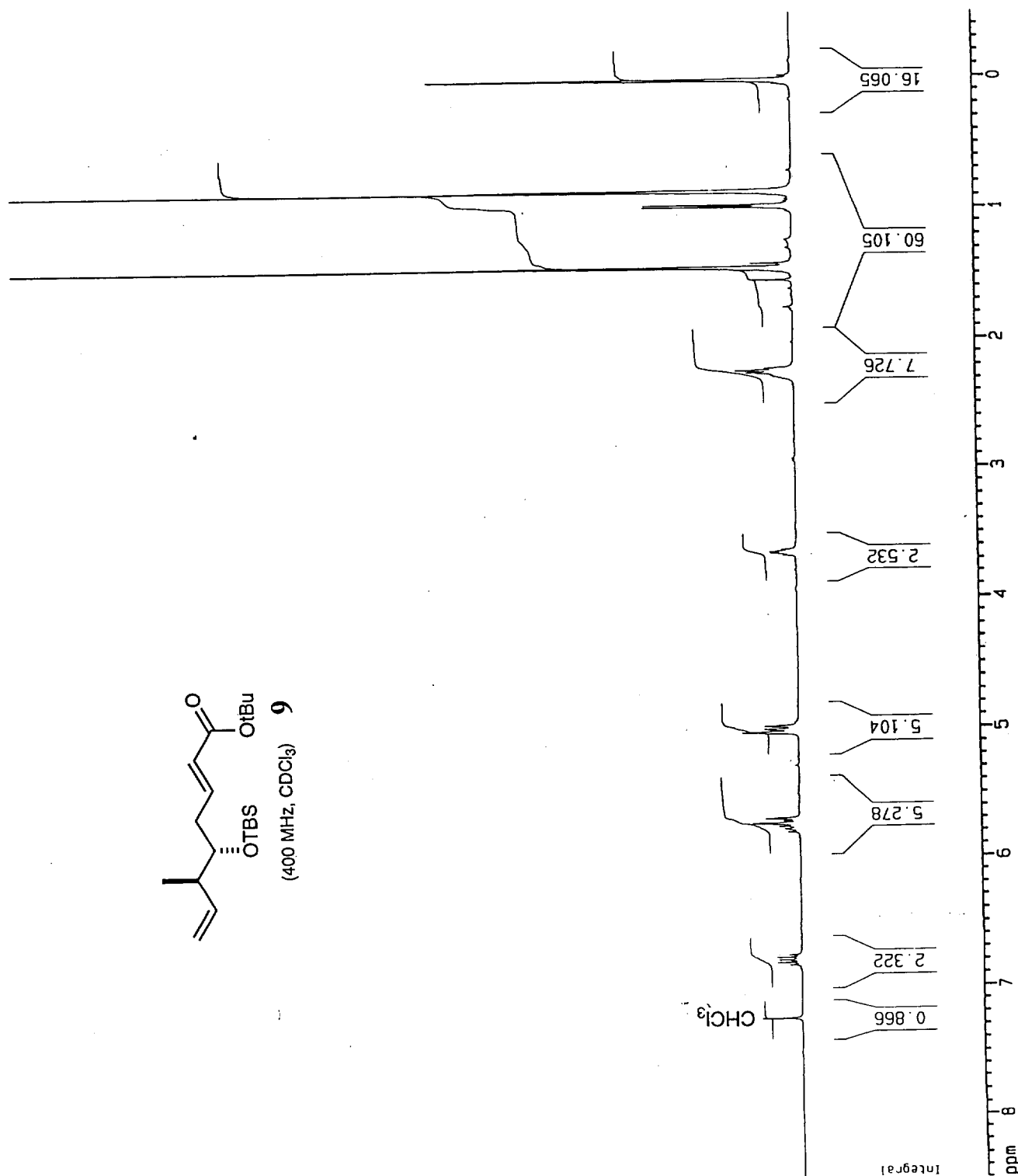
71S

Current Data Parameters
NAME NJE-I-25B
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 980221
Time 13 59
INSTRUM drx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 181
DM 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.0000000 sec
P1 7.70 usec
DE 4.50 usec
SFO1 400.1320007 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 400.1300135 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PPM0 0.45000 ppm/cm
HZCM 180.05850 Hz/cm



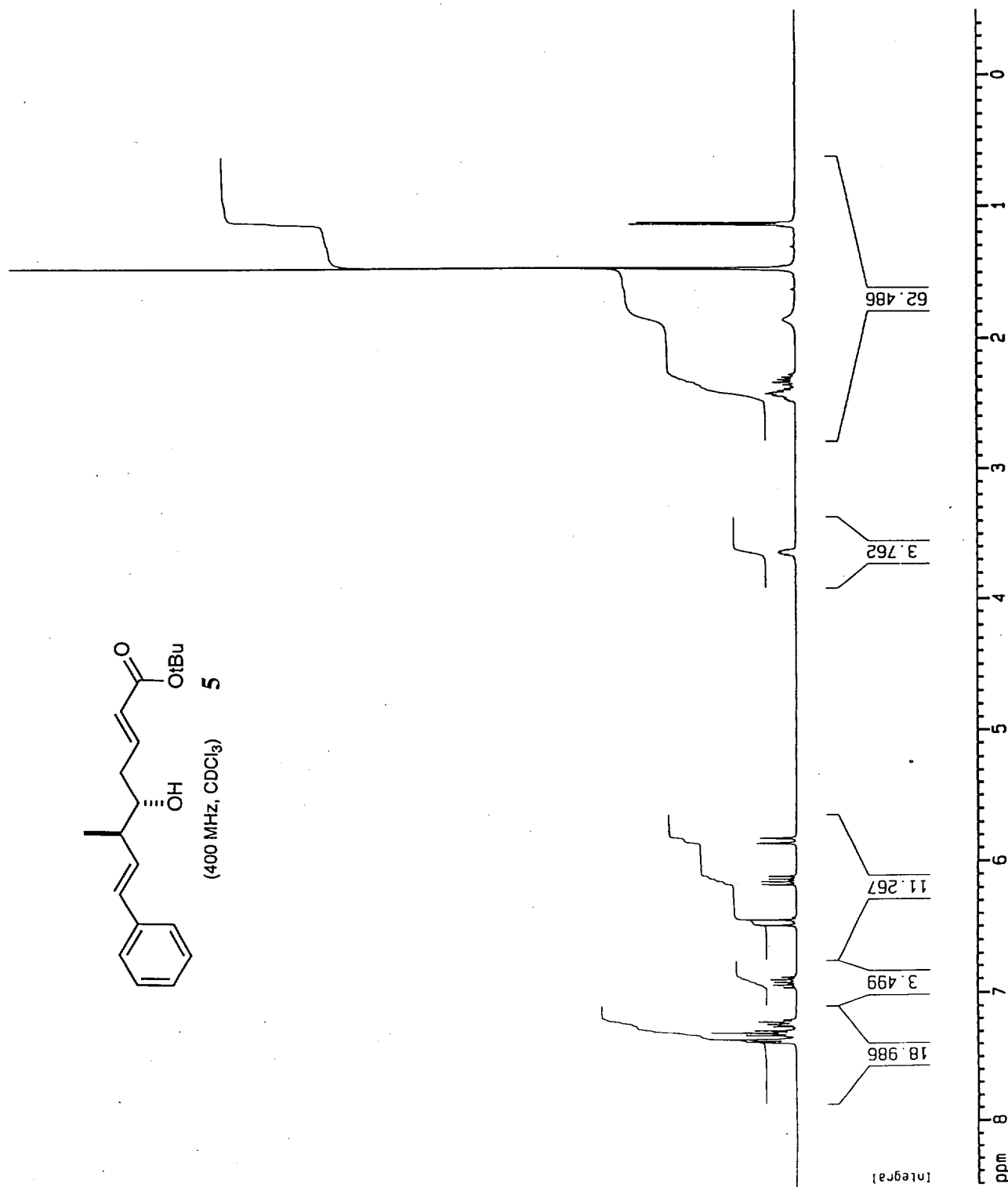
E1S

Current Data Parameters
NAME MJE-III-93
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 980923
Time 8.44
INSTRUM grx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 64
DM 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 7.70 usec
DE 4.50 usec
SF01 400.1320007 MHz
NUC1 ¹H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 400.1300132 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PPMCM 0.45000 ppm/cm
HZCH 180.05850 Hz/cm



S14

Current Data Parameters
 NAME MJE-1-260
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

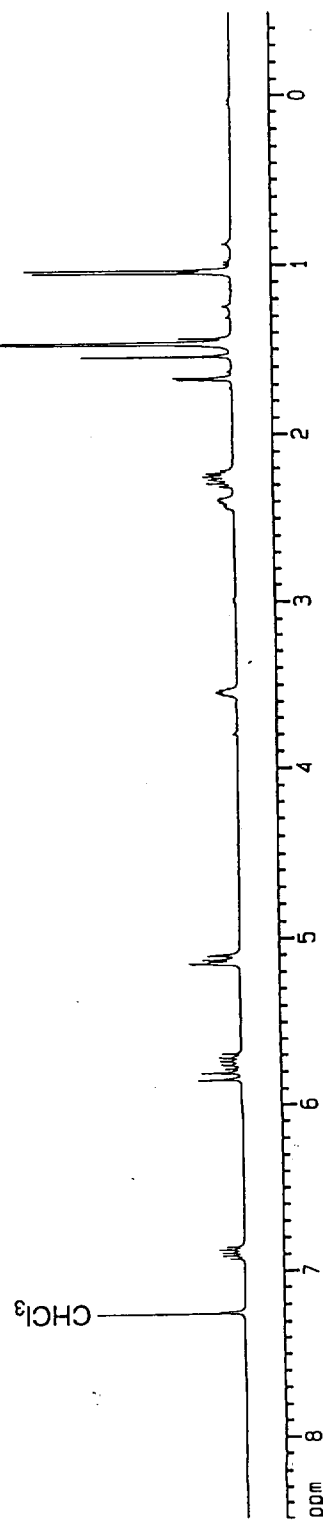
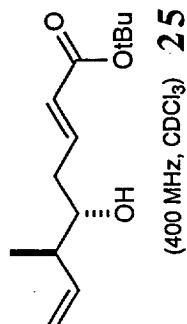
Date_ 980225
 Time 17.38
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TO 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 4789.272 Hz
 FIDRES 0.145157 Hz
 AQ 3.4210291 sec
 RG 512
 DW 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SF01 400.1320007 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters

SI 16384
 SF 400.1300135 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 F1P 8.500 ppm
 F1 3401.10 Hz
 F2P -0.500 ppm
 F2 -200.07 Hz
 PPMCM 0.45000 ppm/cm
 HZCM 180.05850 Hz/cm



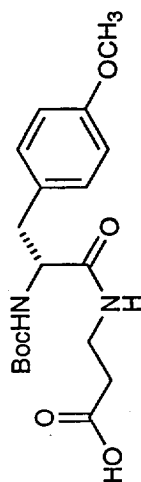
518

Current Data Parameters
 NAME Bnat-1-10BH
 EXPNO 1
 PROCNO 1

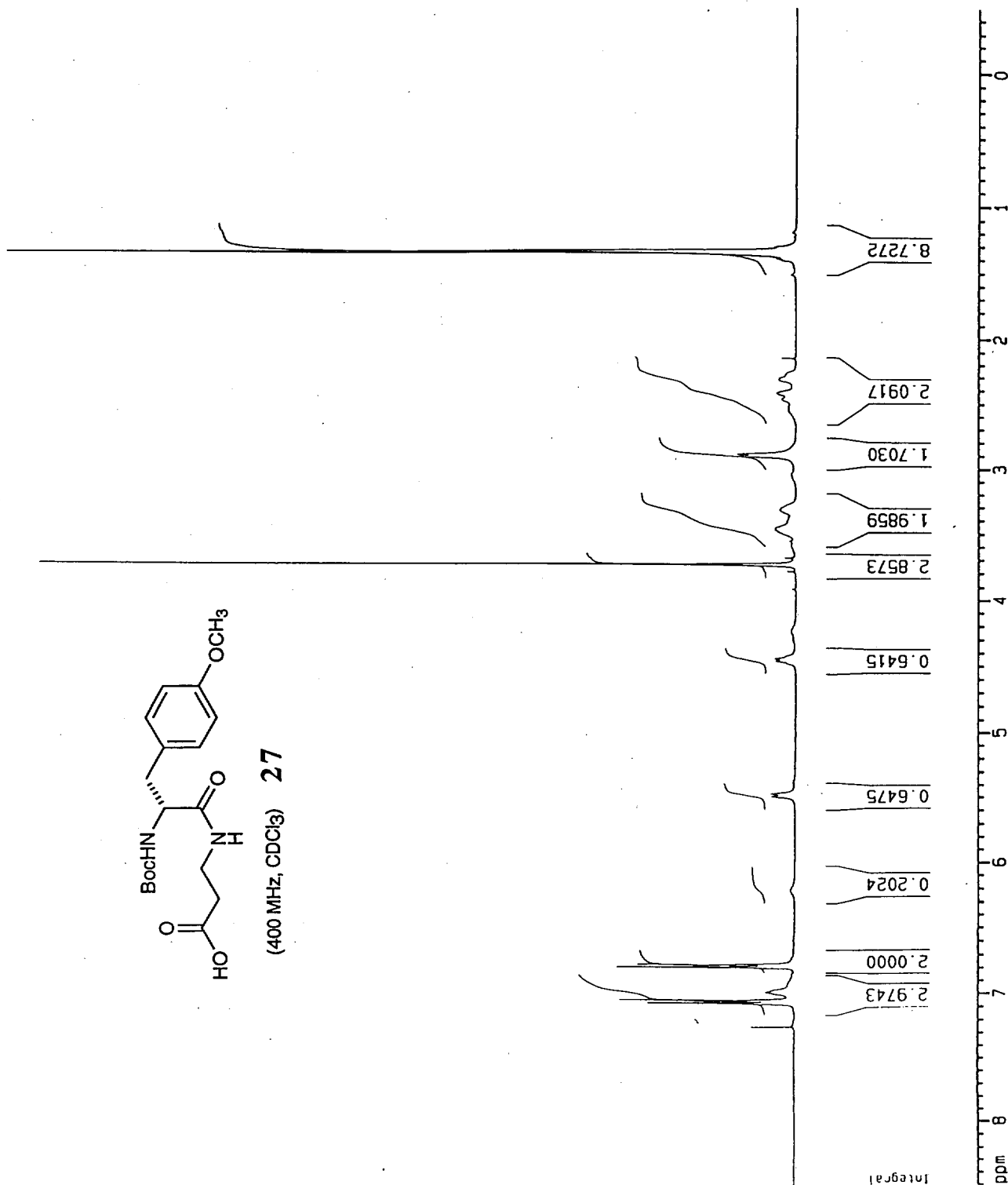
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 Date_ 990710
 Time 15 06
 INSTRUM grx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SMH 4789.272 Hz
 FIDRES 0.146157 Hz
 AQ 3.4210291 sec
 RG 64
 DM 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SF01 400.1320007 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 400.1300108 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 FIP 8.500 ppm
 F1 3401.10 Hz
 F2P -0.500 ppm
 F2 -200.07 Hz
 PPMCH 0.45000 ppm/cm
 HZCH 180.05850 Hz/cm



(400 MHz, CDCl₃) 27



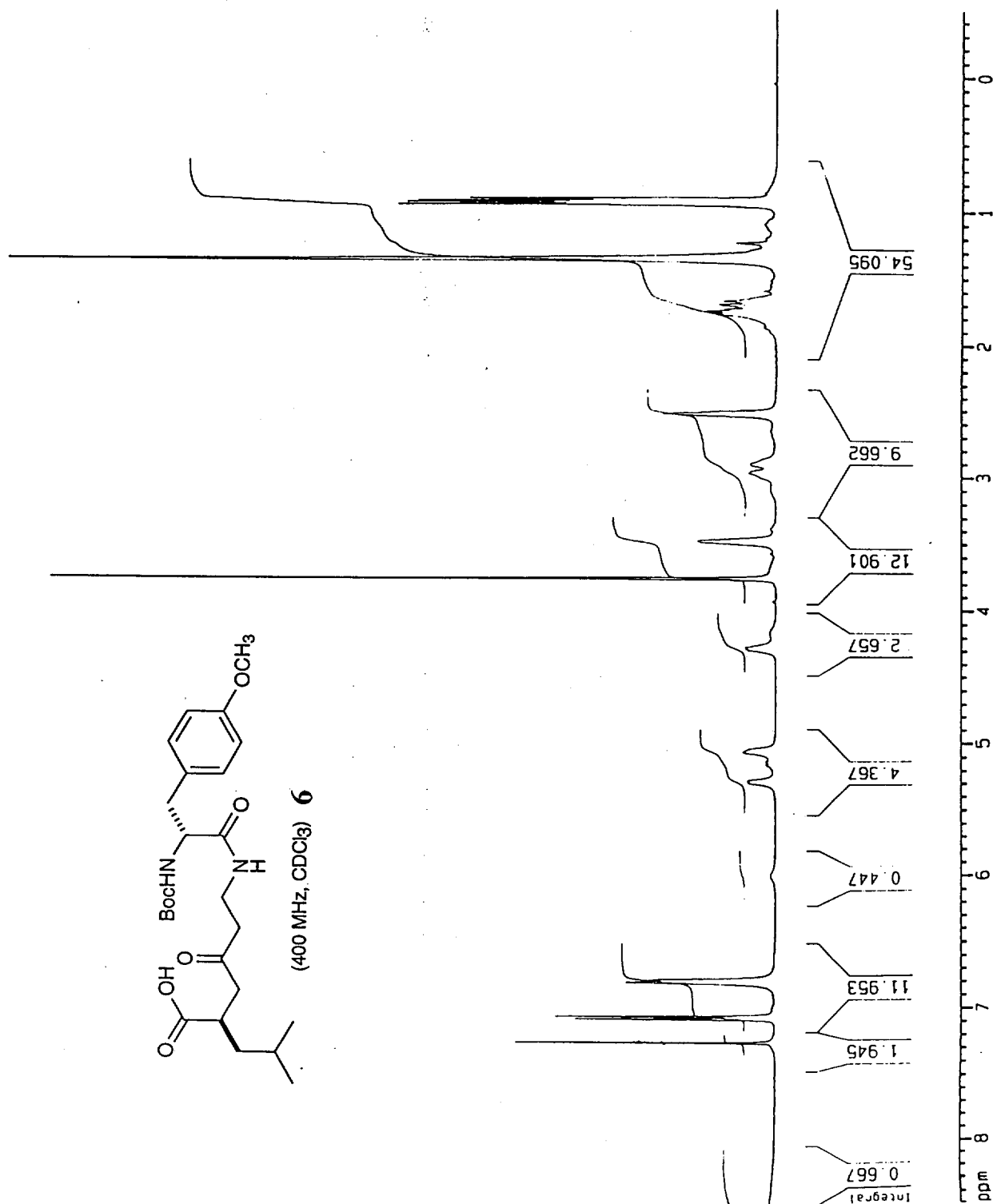
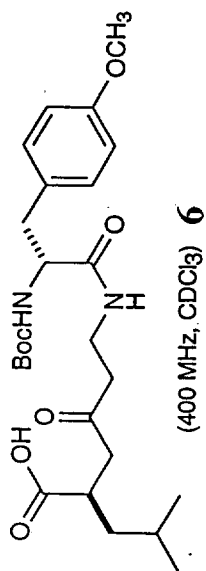
91S

Current Data Parameters
 NAME HJE-III-SH
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 991026
 Time 14.19
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 4789.272 Hz
 FIDRES 0.146157 Hz
 AQ 3.4210291 sec
 RG 362
 DW 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SF01 400.1320007 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 400.1300129 MHz
 MDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 8.500 dcm
 F1 3401.10 Hz
 F2P -200.07 Hz
 F2 -0.500 dcm
 PPMCM 0.45000 dcm/cm
 HZCM 180.05850 Hz/cm



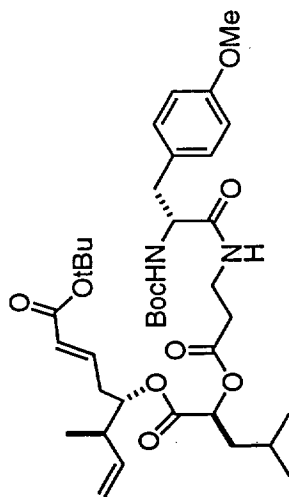
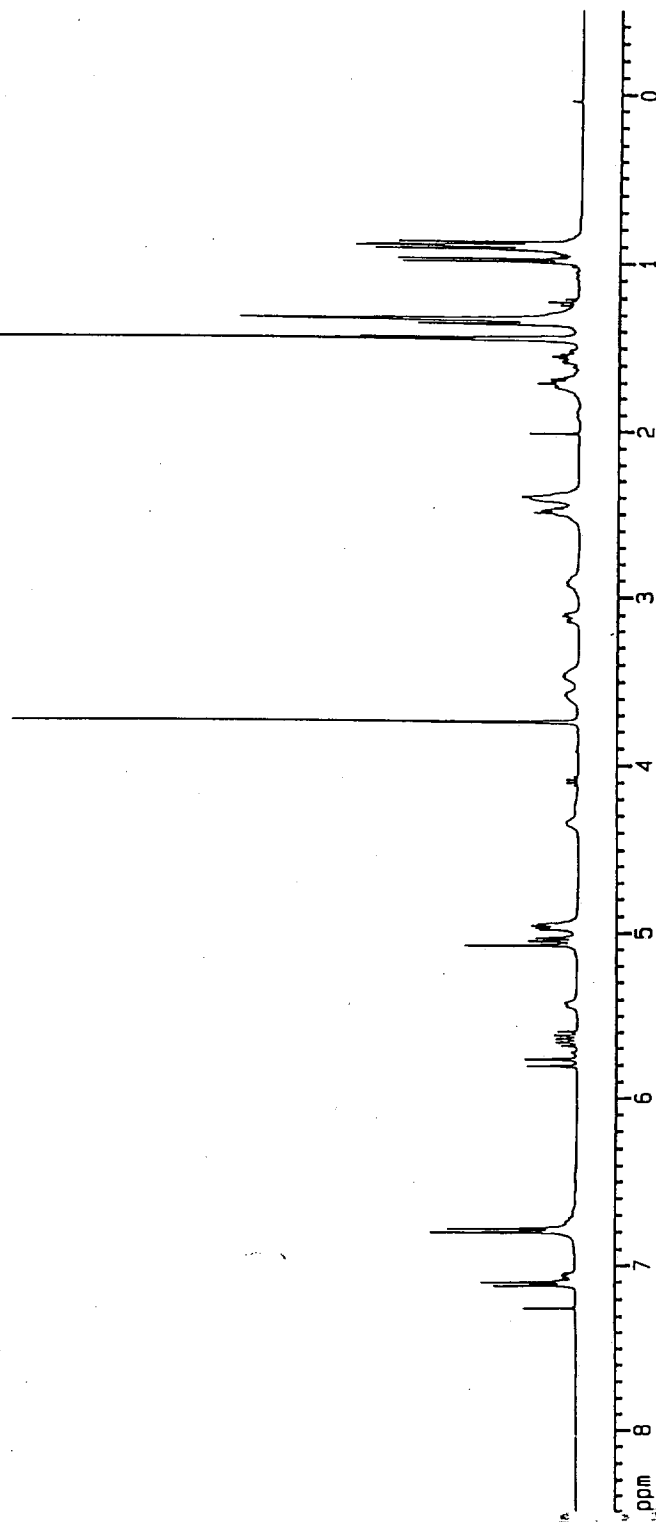
LIS

Current Data Parameters
 NAME MJE-III-87
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980915
 Time 9.13
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TO 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SHH 4789.272 Hz
 FIDRES 0.146157 Hz
 AQ 3.4210291 sec
 RG 64
 DW 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SF01 400.1320007 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters
 SI 16384
 SF 400.1300135 MHz
 NH 0
 SSF 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 20.00 cm
 F1P 8.500 ppm
 F1 3401.10 Hz
 F2P -0.500 ppm
 F2 -200.07 Hz
 PPMCH 0.45000 ppm/cm
 HZCH 180.05850 Hz/cm

(400 MHz, CDCl₃) 28

81S

Current Data Parameters
 NAME MJE-III-95
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

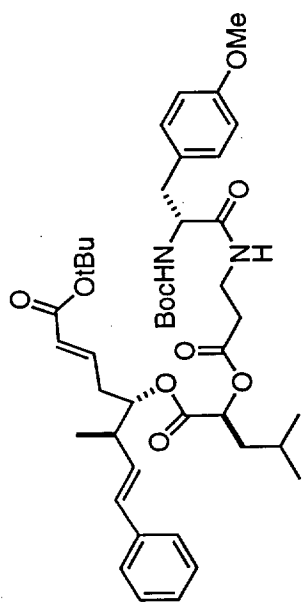
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 Time 9:35
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 16
 DS 2
 SWH 4789.272 Hz
 FIDRES 0.146157 Hz
 AQ 3.4210291 sec
 RG 32
 DM 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.0000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SF01 400.132007 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters

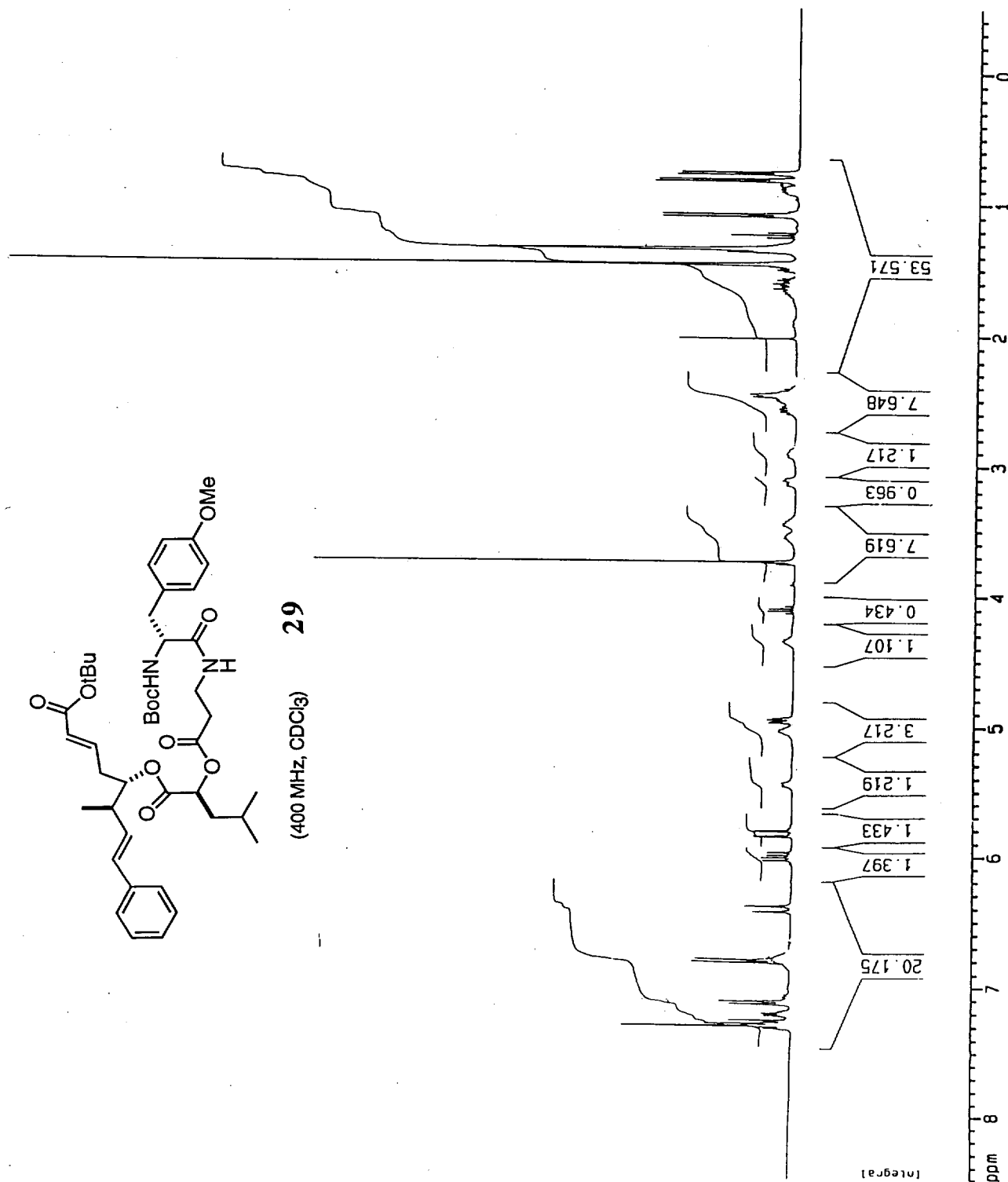
SI 16384
 SF 400.1300138 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 F1P 8.500 ppm
 F1 3401.10 Hz
 F2P -0.500 ppm
 F2 -200.07 Hz
 PPMCM 0.45000 mm/cm



29
 (400 MHz, CDCl₃)



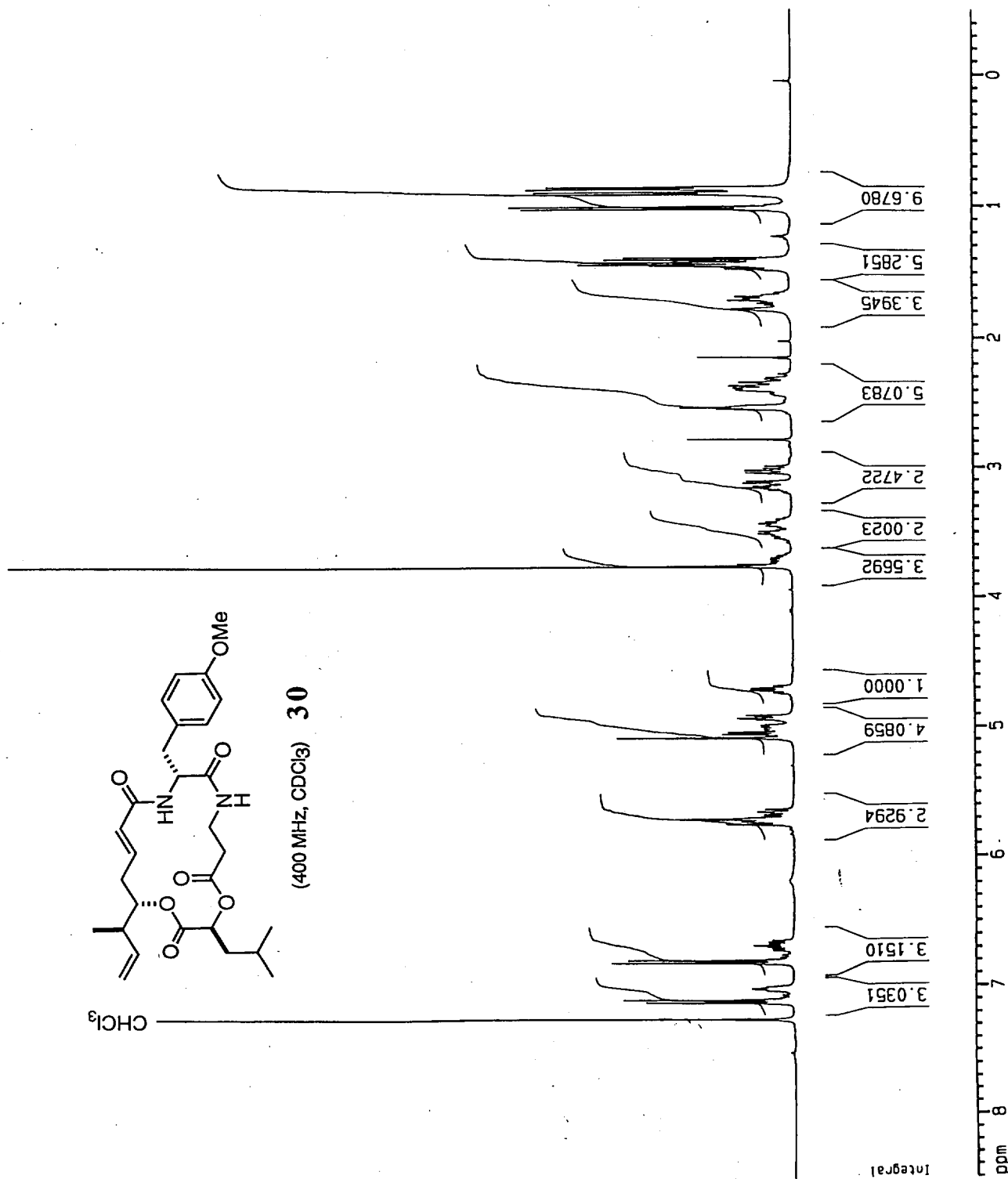
618

Current Data Parameters
NAME MJF -III-phmac
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 1000229
Time 17.05
INSTRUM drx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 71
DS 2
SWH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 256
DM 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 7.70 usec
DE 4.50 usec
SF01 400.1320007 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 400.1300135 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PPMCM 0.45000 ppm/cm
HZCM 180.05850 Hz/cm



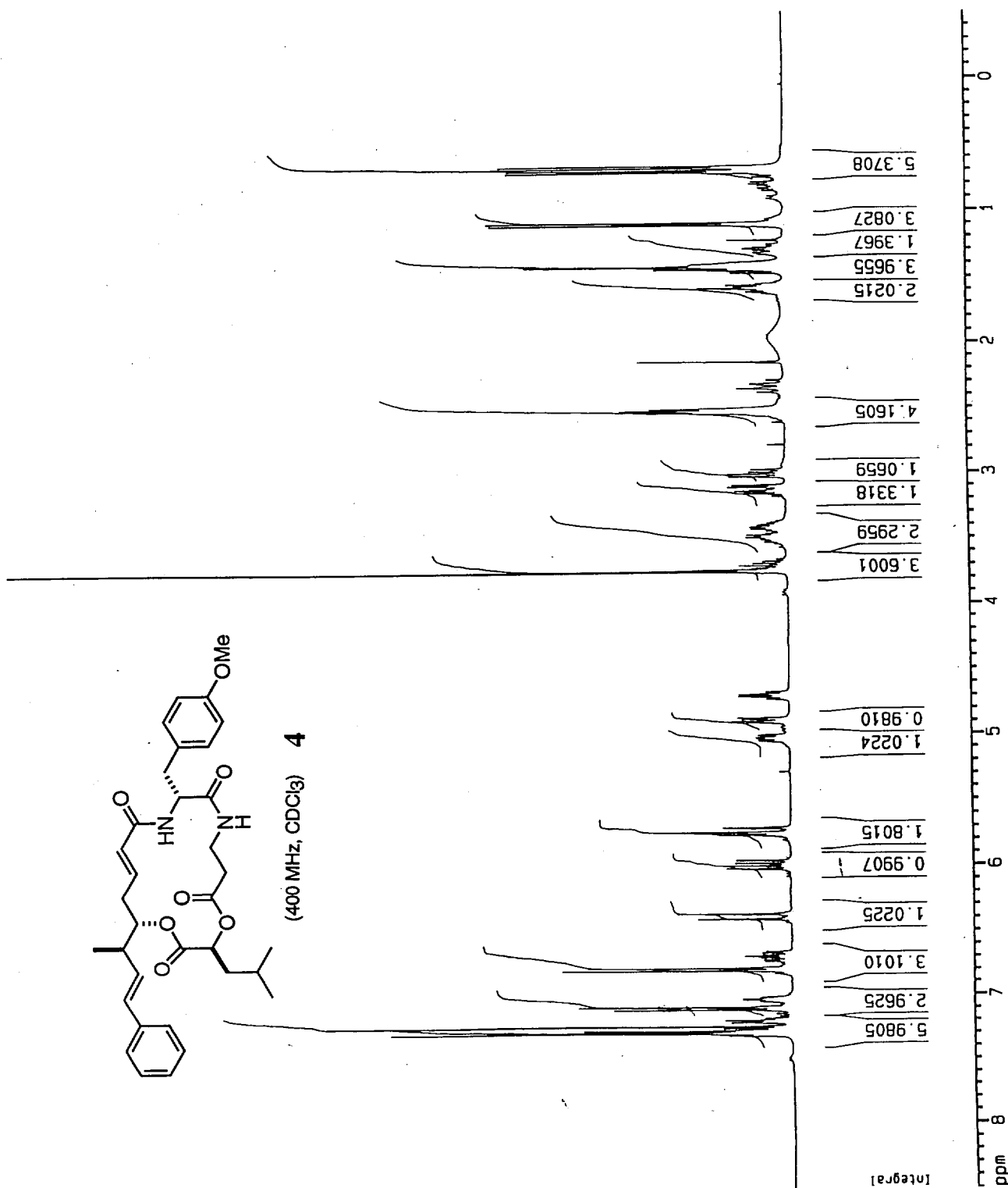
S20

Current Data Parameters
NAME MJE-III-100
EXPNO 20
PROCNO 1

F2 - Acquisition Parameters
Date_ 980930
Time 9.09
INSTRUM drx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 16
DS 2
SWH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 256
DW 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.00000000 sec
P1 7.70 usec
DE 4.50 usec
SF01 400.1320007 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 400.1300135 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
FIP 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PPMCM 0.45000 ppm/cm
HZCM 180.05850 Hz/cm



17S

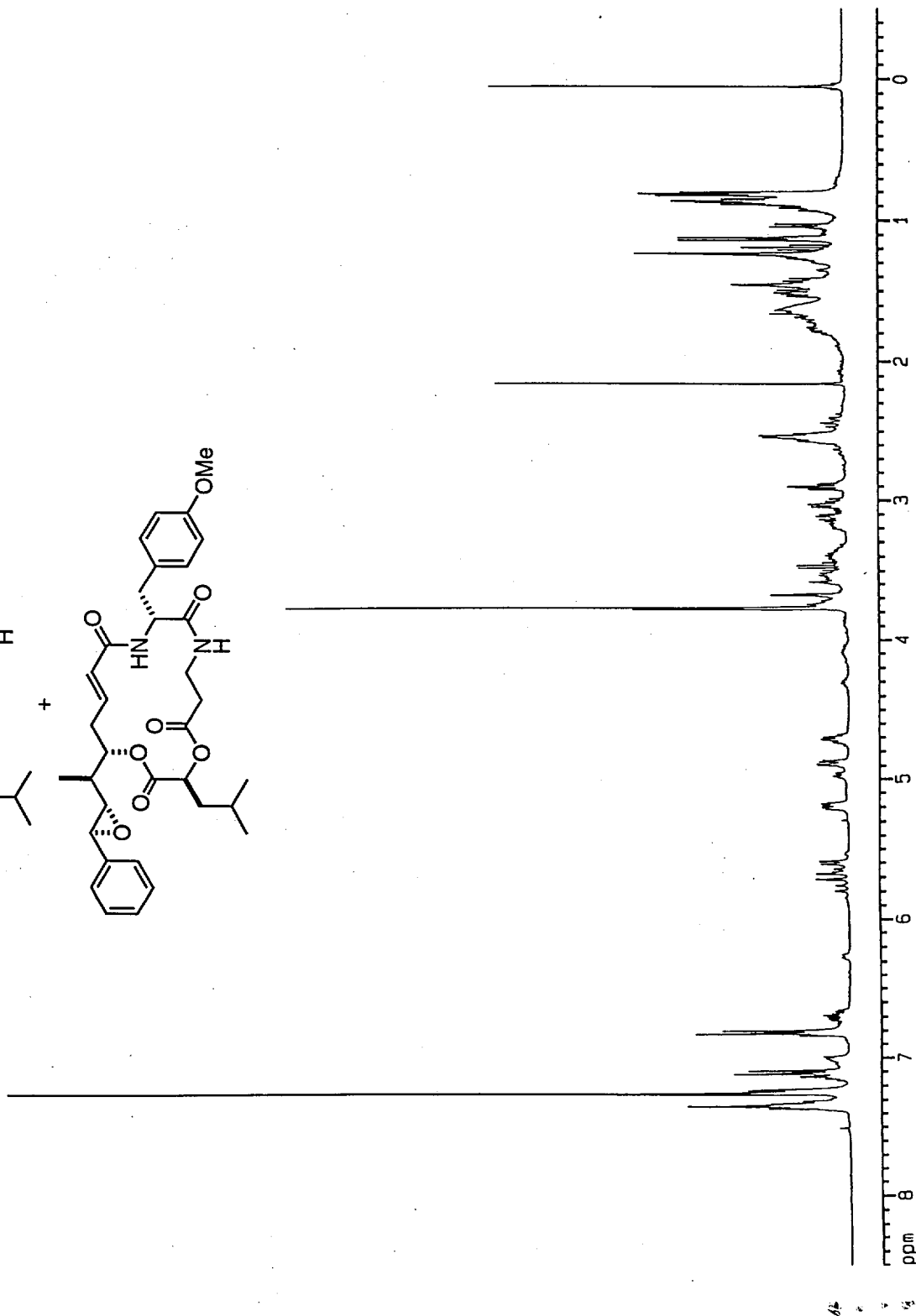
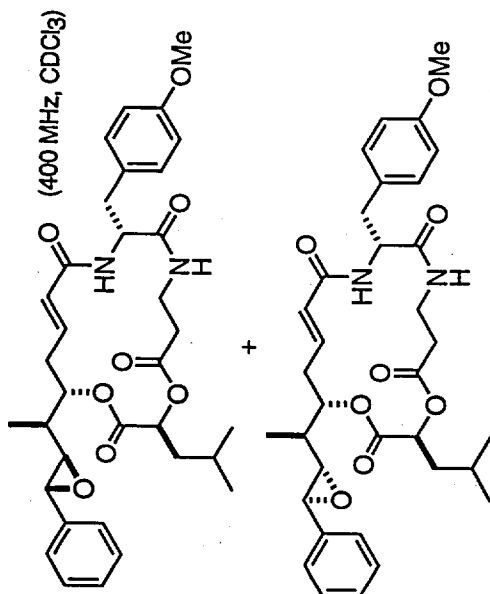
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NAME HJE-III-248A
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 1000217
Time 13.12
INSTRUM drx400
PROBHD 5 mm Multinu
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 155
DS 2
SNH 4789.272 Hz
FIDRES 0.146157 Hz
AQ 3.4210291 sec
RG 574.7
DM 104.400 usec
DE 4.50 usec
TE 300.0 K
D1 1.0000000 sec
P1 7.70 usec
DE 4.50 usec
SF01 400.1320007 MHz
NUC1 1H
PL1 -6.00 dB

F2 - Processing parameters
SI 16384
SF 400.1300135 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 20.00 cm
F1P 8.500 ppm
F1 3401.10 Hz
F2P -0.500 ppm
F2 -200.07 Hz
PPMCM 0.45000 ppm/cm
HZCM 180.05850 Hz/cm

2



CCS

Current Data Parameters
 NAME HJE-III-248A
 EXPNO 1
 PROCNO 1

F2 - Acquisition Parameters

Date_ 1000217
 Time 13.12
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 155
 DS 2
 SWH 4789.272 Hz
 FIDRES 0.146157 Hz
 AQ 3.4210291 sec
 RG 574.7
 DW 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 D1 1.00000000 sec
 P1 7.70 usec
 DE 4.50 usec
 SFO1 400.1320007 MHz
 NUC1 1H
 PL1 -6.00 dB

F2 - Processing parameters

SI 16384
 SF 400.1300135 MHz
 NDM EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

1D NMR plot parameters

CX 20.00 cm
 F1P 5.949 ppm
 F1 2380.54 Hz
 F2P 4.498 ppm
 F2 1799.82 Hz
 PPMCH 0.07257 ppm/cm
 HZCH 29.03615 Hz/cm

