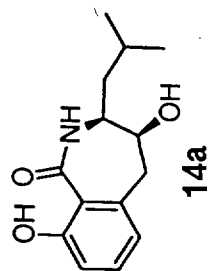


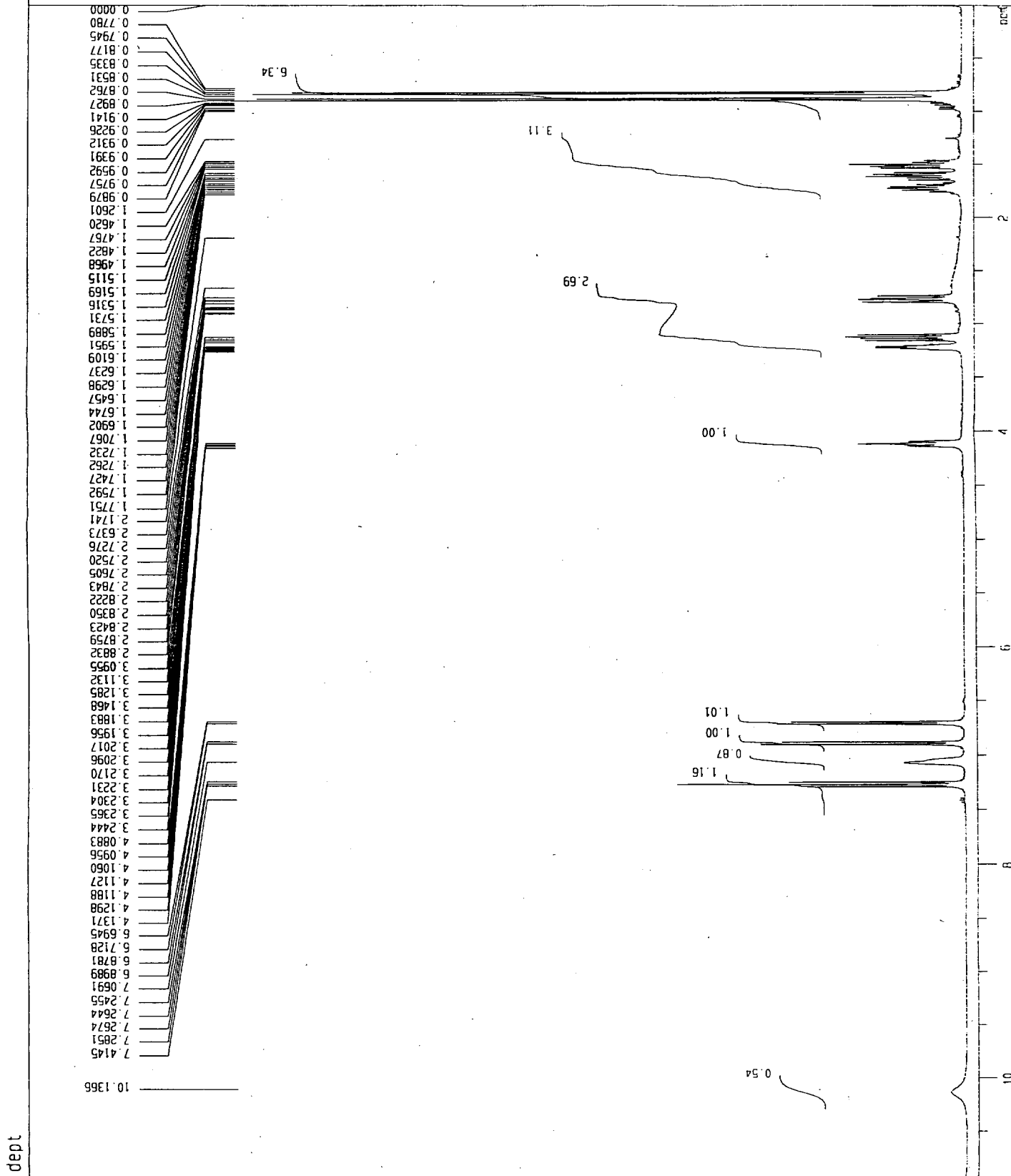
Date: Fri Jul 10 00:59:47 1998  
 LoadingID: nmdata  
 dept  
 SliceHistory  
 EXMODE non

POINT 32768 points  
 SAMPO 32768 points  
 FREQU 7993.6 Hz  
 FILTR 4800 Hz  
 DELAY 58.6 usec  
 DEADT 10.0 usec  
 INTVL 125.1 usec  
 TIMES 8 times  
 DUMMY 1 times  
 PD 2.9007 sec  
 ACQTM 4099.2769 msec  
 PREDL 10.00000 msec  
 INJMT 1000.0000 msec  
 RESOL 0.24 Hz  
 PW1 5.25 usec  
 OBNUC 1H  
 OBFRO 399.65 MHz  
 OBSET 134300.00 Hz  
 RGAIN 17

SCANS 8 times  
 SLVNT CDCL3  
 SPINNT 14 Hz  
 TEMP 24.4 C



400 MHz  
<sup>1</sup>H NMR

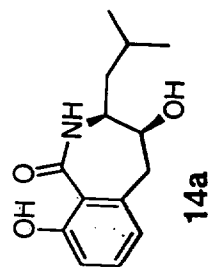


dept

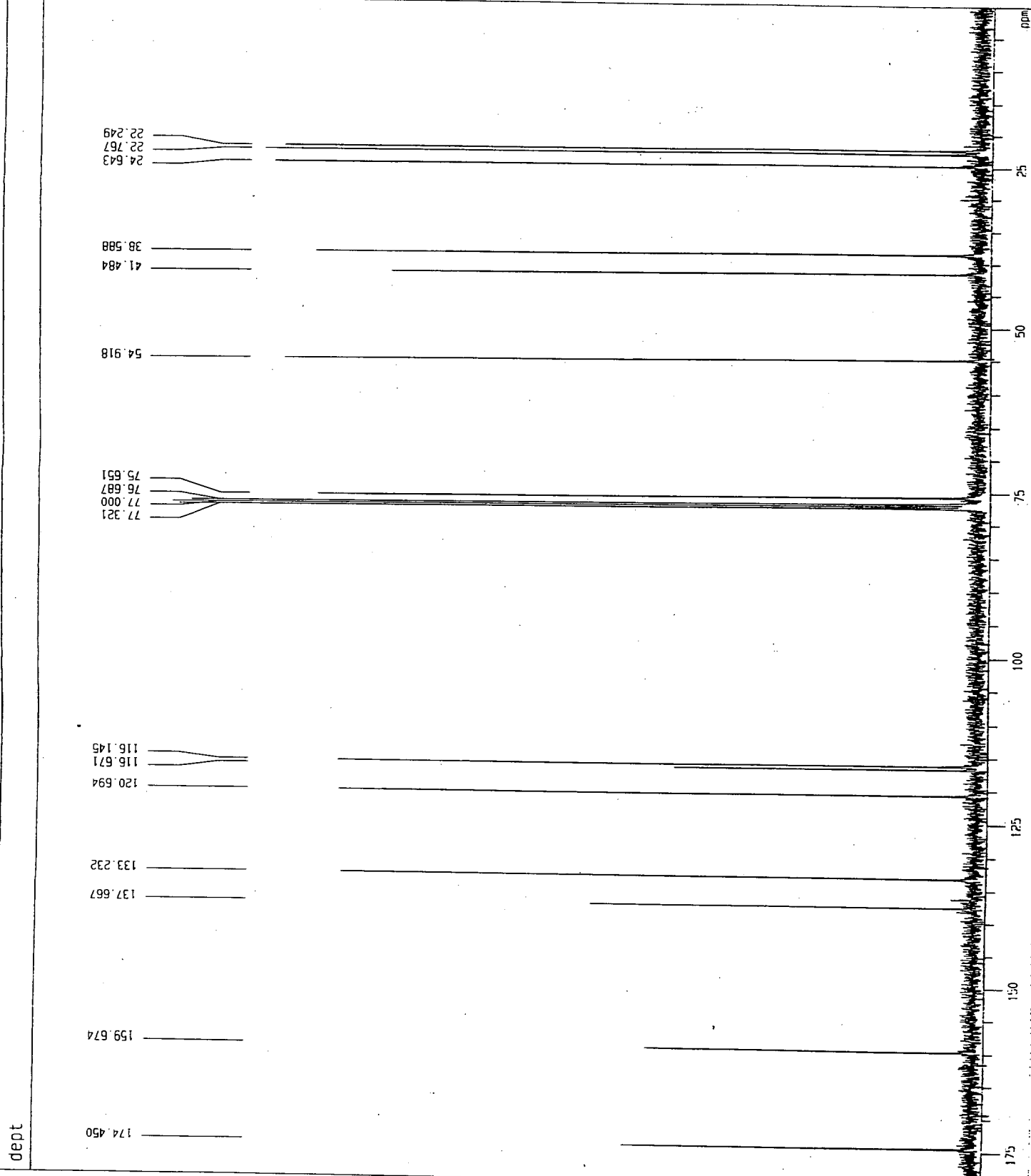
Date: Fri Jul 10 01:26:30 1998  
 LoadingFID: nmdata  
 Comment: dept  
 SliceHistory: bcm  
 EXMODE

POINT 32768 points  
 SAMPO 32768 points  
 FREQU 27100.3 Hz  
 FILTR 16250 Hz  
 DELAY 14.7 usec  
 DEACT 5.0 usec  
 INTVL 36.9 usec  
 TIMES 512 times  
 DUMMY 1 times  
 PD 1.7909 sec  
 ACQTH 1209.1393 msec  
 PREDL 10.00000 msec  
 INIWT 1000.0000 msec  
 RESOL 0.83 Hz  
 PW1 4.85 usec  
 OBNUC <sup>13</sup>C  
 OBPRQ 100.40 MHz  
 OBSET 135500.00 Hz  
 RGAIN 30  
 IRNUC <sup>1</sup>H  
 IREFR 399.66 MHz  
 IRSET 134300.00 Hz  
 IRRPW 50.0 usec  
 IRRNS 0

SCANS 512 times  
 SLVNT CDCL3  
 SPINNING 14 Hz  
 TEMP 25.5 C



100 MHz  
<sup>13</sup>C NMR

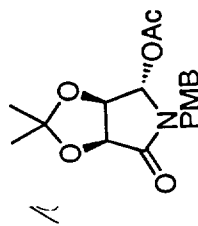


dept

ARK-82H

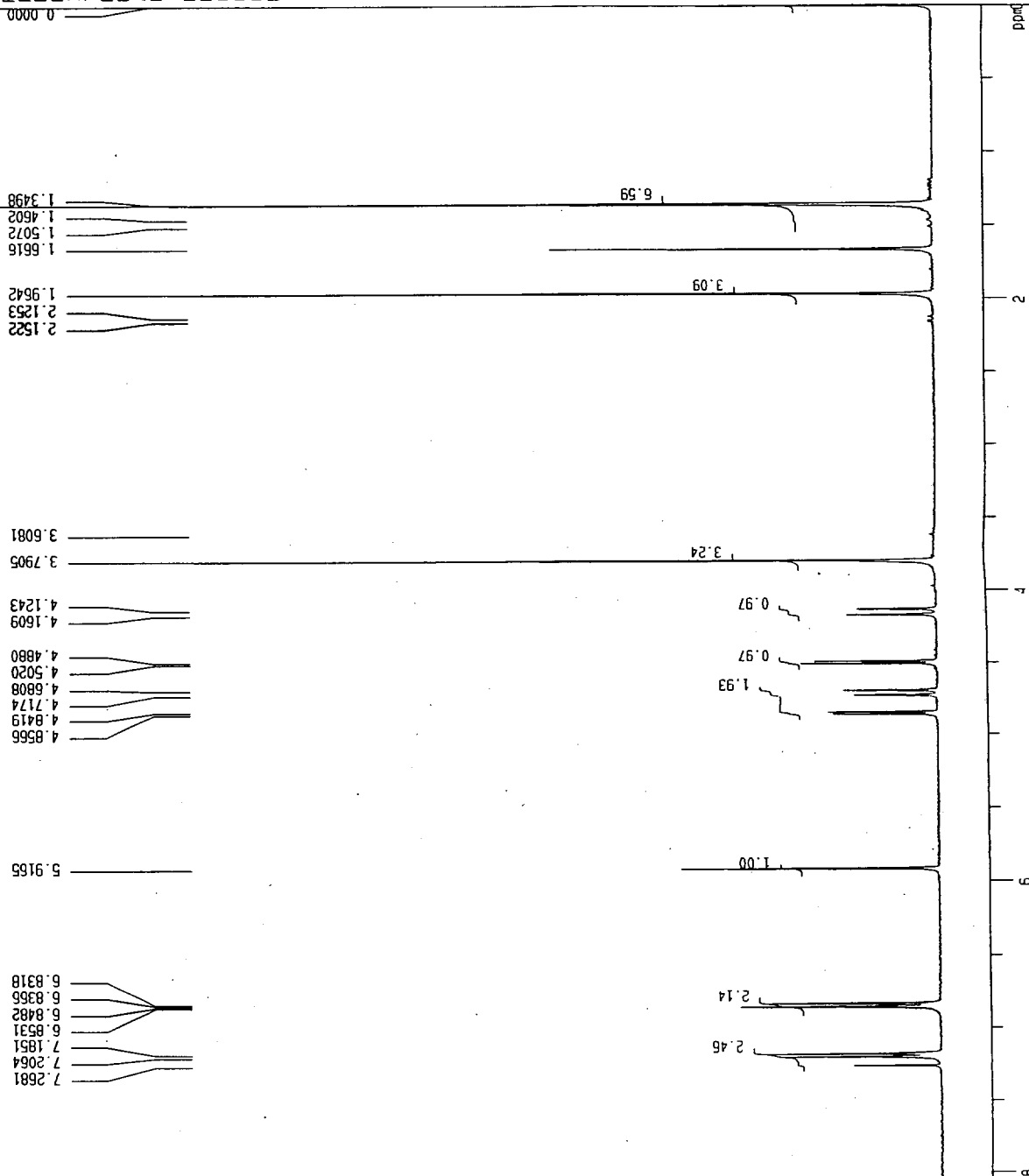
Date : Sat Jun 22 15:37:36 1996  
 File Name : ark82h.nmdata  
 Comment : ARK-82H  
 SliceHistory : non  
 EXMODE :

POINT 32768 points  
 SAMPO 32768 points  
 FREQ 7993.6 Hz  
 F1F2 4000 Hz  
 DELAY 50.0 usec  
 DEADT 72.4 usec  
 INVT 125.1 usec  
 TIMES 4 times  
 DUMMY 1 times  
 PD 2 9007 sec  
 ACQTH 4099.2769 msec  
 PREDL 10.00000 msec  
 INIWT 0.50000 msec  
 RESOL 0.24 Hz  
 PW1 5.20 usec  
 OBNUC 1H  
 OBFRQ 399.65 MHz  
 OBSET 131300.00 Hz  
 RGAIN 22  
 SCANS 4 times  
 SLVNT COCL3  
 SPINNING 13 Hz  
 TEMP 22.4 C



16

400 MHz  
<sup>1</sup>H NMR



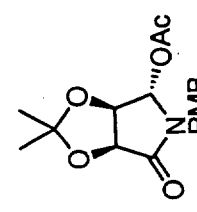
ppm

ark-82 (c)

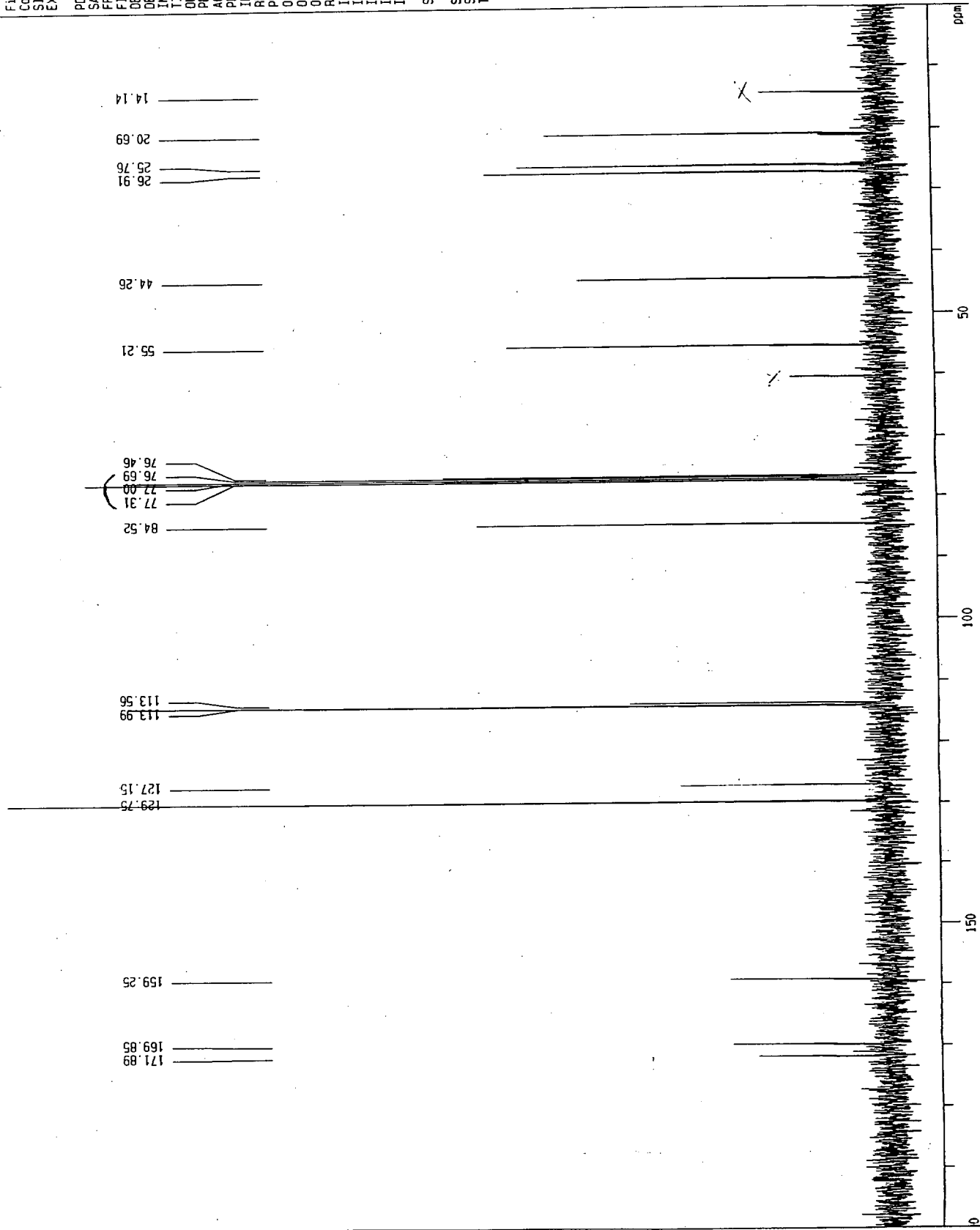
Date : Fri Jun 21 13:50:39 1996  
 FileName : ark82c.nmdata  
 Comment : ark-82 (c)  
 SliceHistory : bcm  
 EXMODE :

POINT 16384 points  
 SAMPO 16384 points  
 FREQU 27100.3 Hz  
 F1FIR 13550 Hz  
 DELAY 14.8 usec  
 DEADT 19.9 usec  
 INTVL 36.9 usec  
 TIMES 64 times  
 CUMMY 1 times  
 PU 2.3954 sec  
 ACQTM 604.5696 msec  
 PREDL 10.00000 msec  
 INITW 0.5000 msec  
 RESOL 1.65 Hz  
 PFI 4.50 usec  
 13C 13C  
 OBNUC 100.40 MHz  
 OBFRQ 135500.00 Hz  
 OBSET 27  
 RGAIN 1H  
 IRNUC 399.65 MHz  
 TRFRQ 134500.00 Hz  
 IRSET 45.0 usec  
 IRRPW 0  
 IRRMS 0

SCANS 64 times  
 SLVNT CDCL3  
 SPINNING 12 Hz  
 TEMP 22.8 C



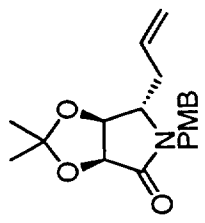
**16**  
 100 MHz  
<sup>13</sup>C NMR



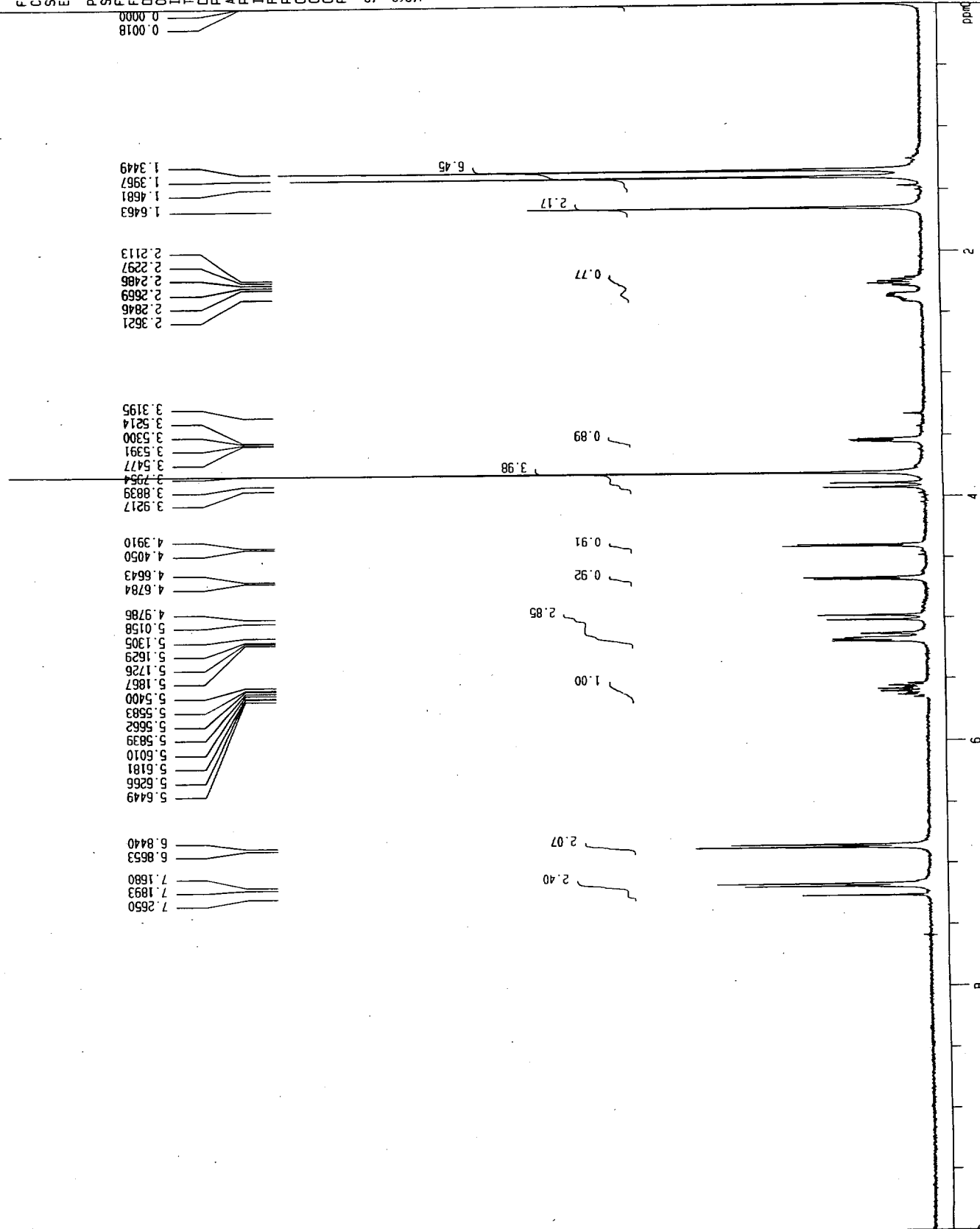
ark-85 (H)

Date : Thu Jul 4 15:26:49 1996  
 FileName : ark85h.nmdata  
 Comment : ark-85 (H)  
 SliceHistory : non  
 EXMODE :

POINT 32768 points  
 SAMPD 32768 points  
 FREQU 7993.6 Hz  
 FILTR 4000 Hz  
 DELAY 50.0 usec  
 DEACT 72.4 usec  
 INYLV 125.1 usec  
 TIMES 4 times  
 DUMMY 1 times  
 PD 2.9007 sec  
 ACQTM 4099.2769 msec  
 PREDL 10.0000 msec  
 ININT 0.5000 msec  
 RESOL 0.24 Hz  
 PW1 5.20 usec  
 OBNUC 1H  
 OBPRO 399.65 MHz  
 OBSET 134300.00 Hz  
 RGAIN 8  
 SCANS 4 times  
 SLVNT COCL3  
 SPINNT 14 Hz  
 TEMPT 26.5 C



400 MHz  
<sup>1</sup>H NMR

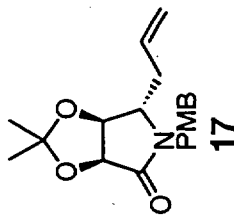


ark-85 (C)

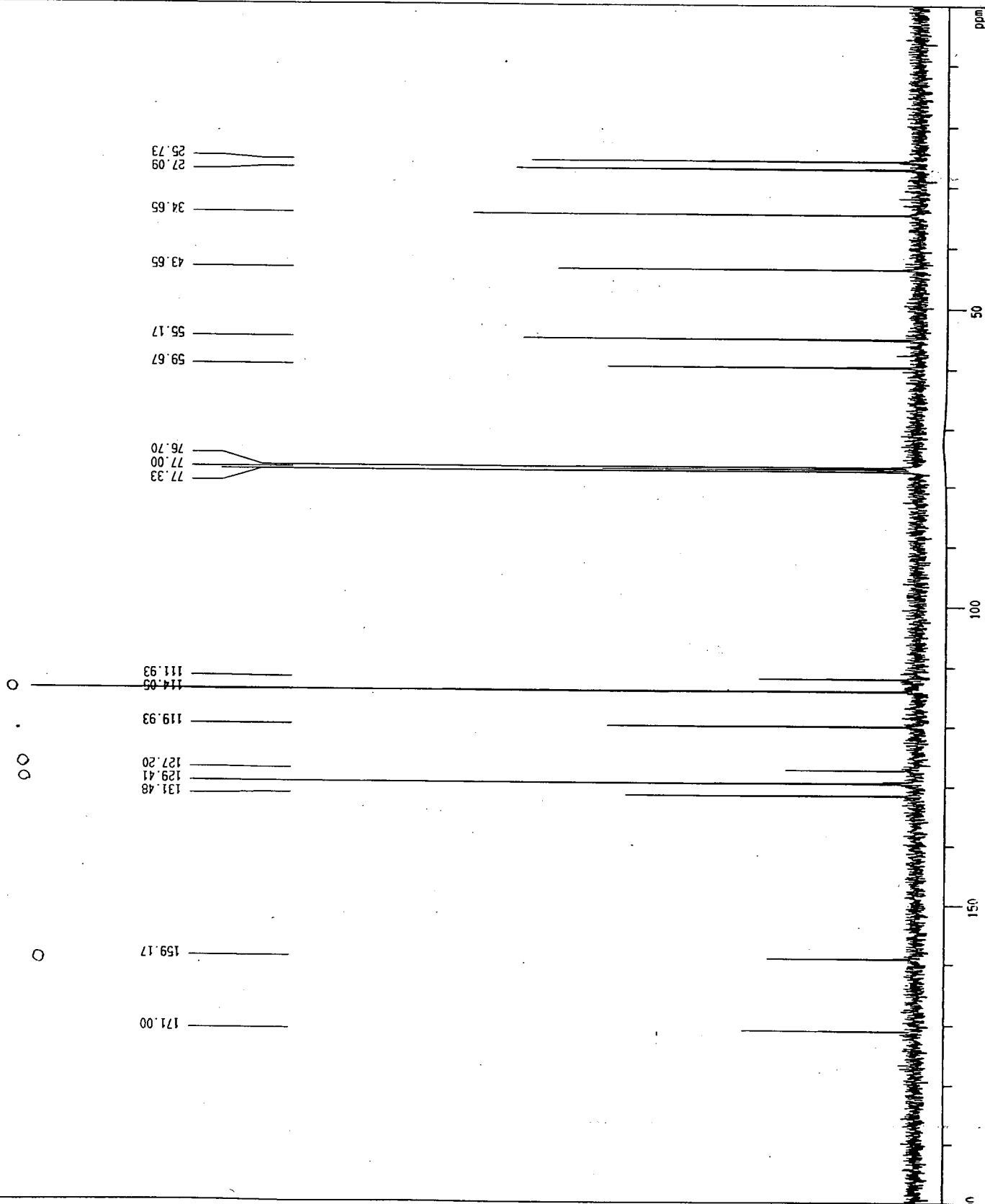
Date : Thu Jul 4 14:53:59 1996  
 FileName : ark85c.nmdata  
 Comment : ark-85 (C)  
 SliceHistory :  
 EXMODE : bcm

POINT 16384 points  
 SAMPO 16384 points  
 FREQ0 27100.3 Hz  
 FILTR 13550 Hz  
 DELAY 14.8 usec  
 DEATD 19.9 usec  
 INTVL 36.9 usec  
 TIMES 64 times  
 DUMMY 1 times  
 PU 2.3954 sec  
 ACOTM 604.5696 msec  
 PREDL 10.0000 msec  
 TINTM -0.5000 msec  
 RESOL 1.65 Hz  
 PM1 4.50 usec  
 OBNUC 13C  
 OBFRO 100.40 MHz  
 OBSET 135500.00 Hz  
 RGAIN 8  
 IRNUC 1H  
 IRFRO 399.65 MHz  
 IRSET 134300.00 Hz  
 IRPFW 45.0 usec  
 IRRNS 0

SCANS 64 times  
 SLVNT CDCL3  
 SPINNING 11 Hz  
 TEMP 27.0 C



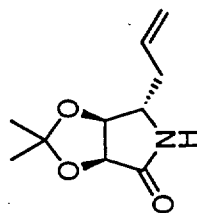
100 MHz  
<sup>13</sup>C NMR



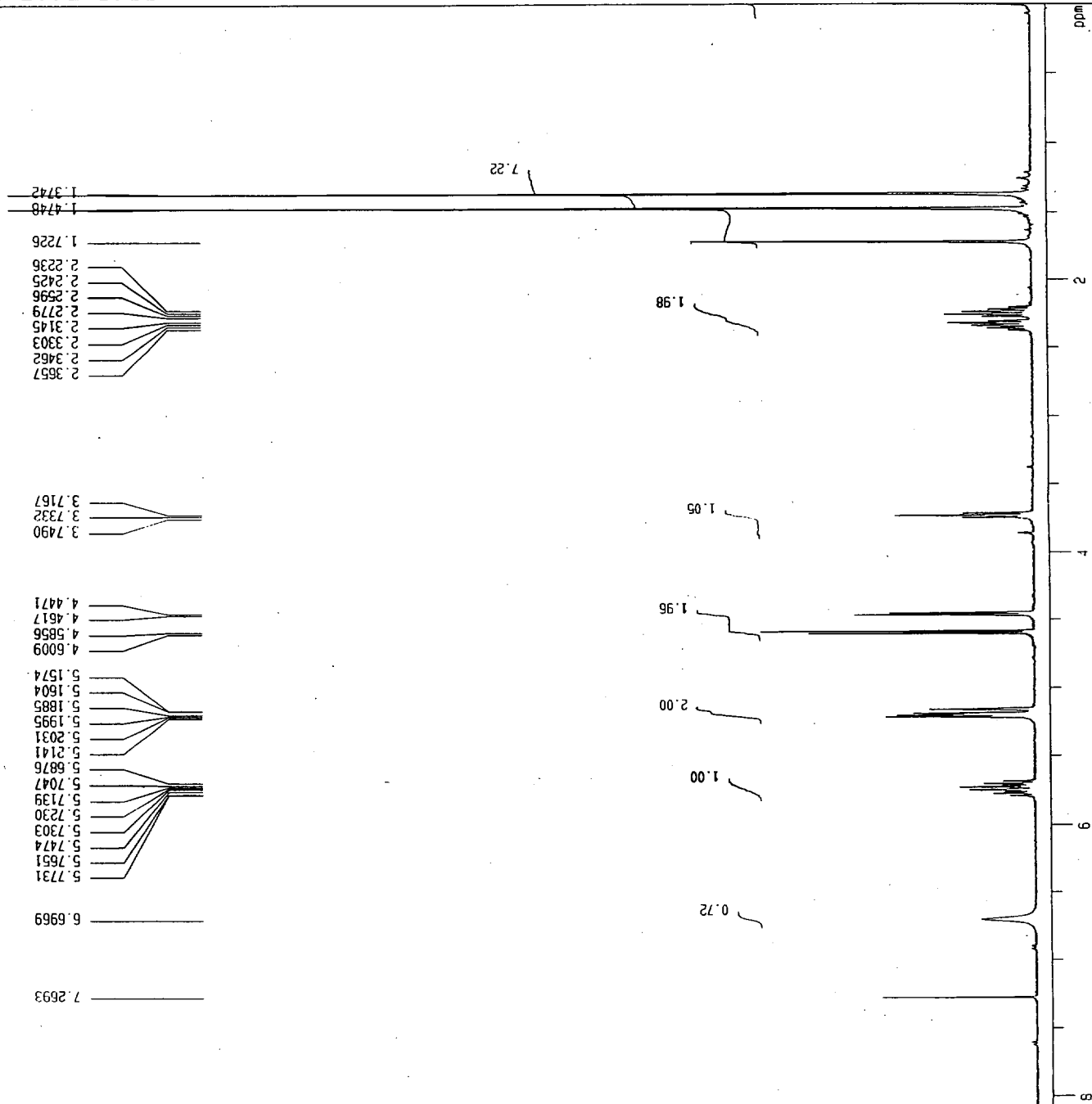
Date : Tue Nov 12 14:34:40 1996  
 FileName ark-1268.mdata  
 Comment ark-1268  
 SliceHistory non  
 EXMODE

POINT 32768 points  
 SAMPD 32768 points  
 FREQU 7993.6 Hz  
 FILTR 4000 Hz  
 DELAY 50.0 usec  
 DELOT 72.4 usec  
 INTVL 125.1 usec  
 TIMES 4 times  
 DUMMY 1 times  
 PD 2.9007 sec  
 ACQTM 4099.2769 msec  
 PREOL 10.00000 msec  
 INIWT 10.00000 msec  
 RESOL 0.24 Hz  
 Pw1 5.20 usec  
 1H 399.65 MHz  
 134300.00 Hz  
 21

SCANS 4 times  
 SLVNT COCL3  
 SPINNING 14 Hz  
 TEMP 25.5 C



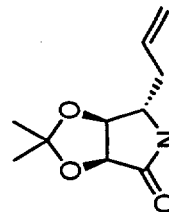
400 MHz  
<sup>1</sup>H NMR



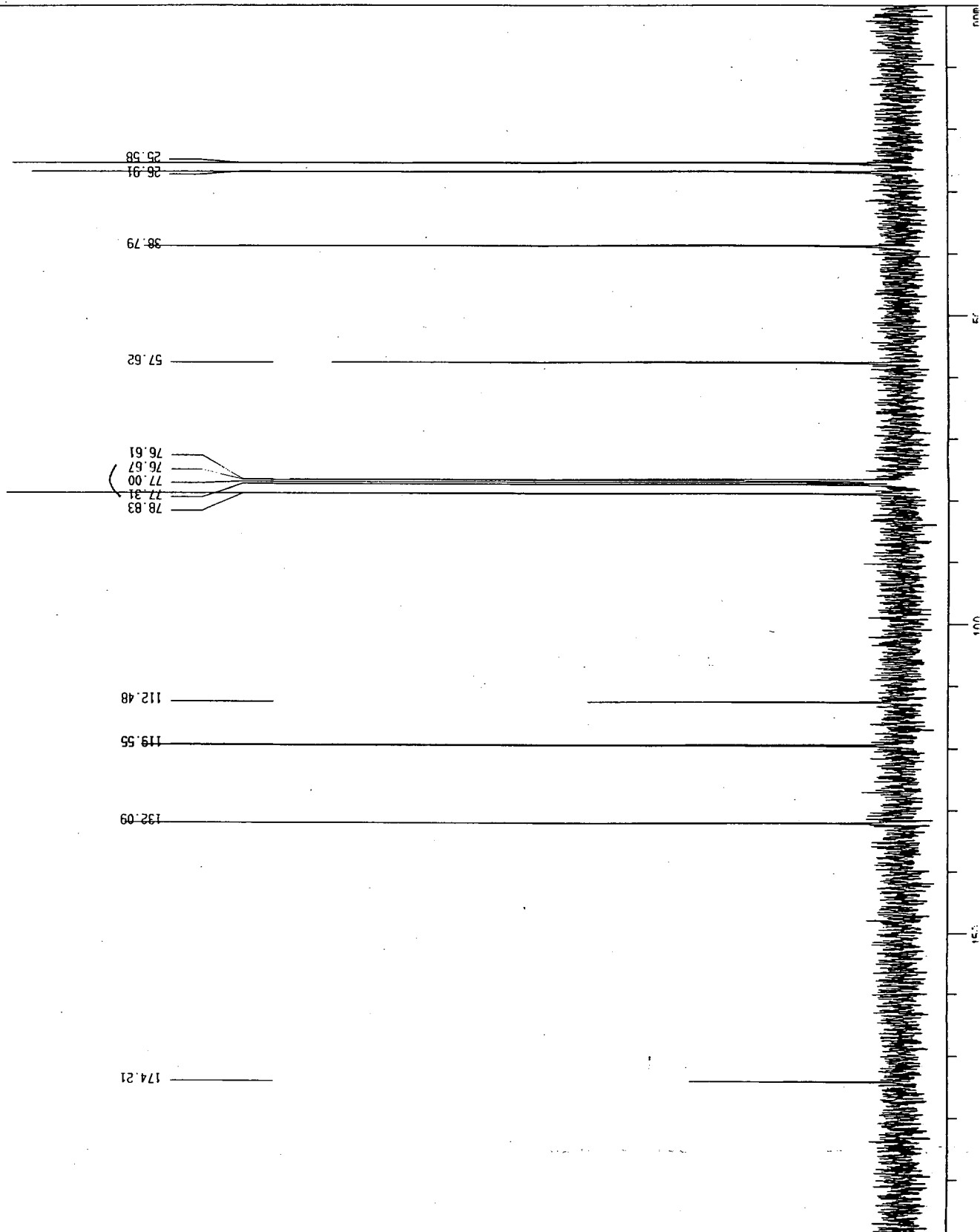
Date : Sat Nov 9 14:40:20 1996

FileName : LoadingFID.mmdata  
 Comment : bcm  
 SliceHistory :  
 EXMODE : bcm

POINT 16384 points  
 SAMPO 16384 points  
 FREQ0 27100.3 Hz  
 FILTR 13550 Hz  
 DELAY 14.8 usec  
 DEADT 19.9 usec  
 INTVL 36.9 usec  
 TIMES 64 times  
 DUMMY 1 times  
 PD 2.3954 sec  
 ACQTH 604.5656 msec  
 PREDL 10.00000 msec  
 INIWT 10.0000 msec  
 RESOL 1.65 Hz  
 PH1 4.50 usec  
 13C 13C  
 OBNUC 100.40 MHz  
 OBPRO 135500.00 Hz  
 OBSET 28  
 RGAIN 1H  
 IRNUC 399.65 MHz  
 IRPRO 134300.00 Hz  
 IRSET 45.0 usec  
 IRRPW 0  
 IRRNS 0  
 SCANS 64 times  
 SLVNT COCL3  
 SPINNING 13 Hz  
 TEMP 26.1 C



**18**  
 100 MHz  
<sup>13</sup>C NMR



bcm

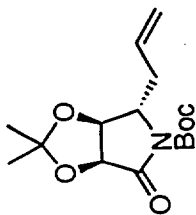


bcm

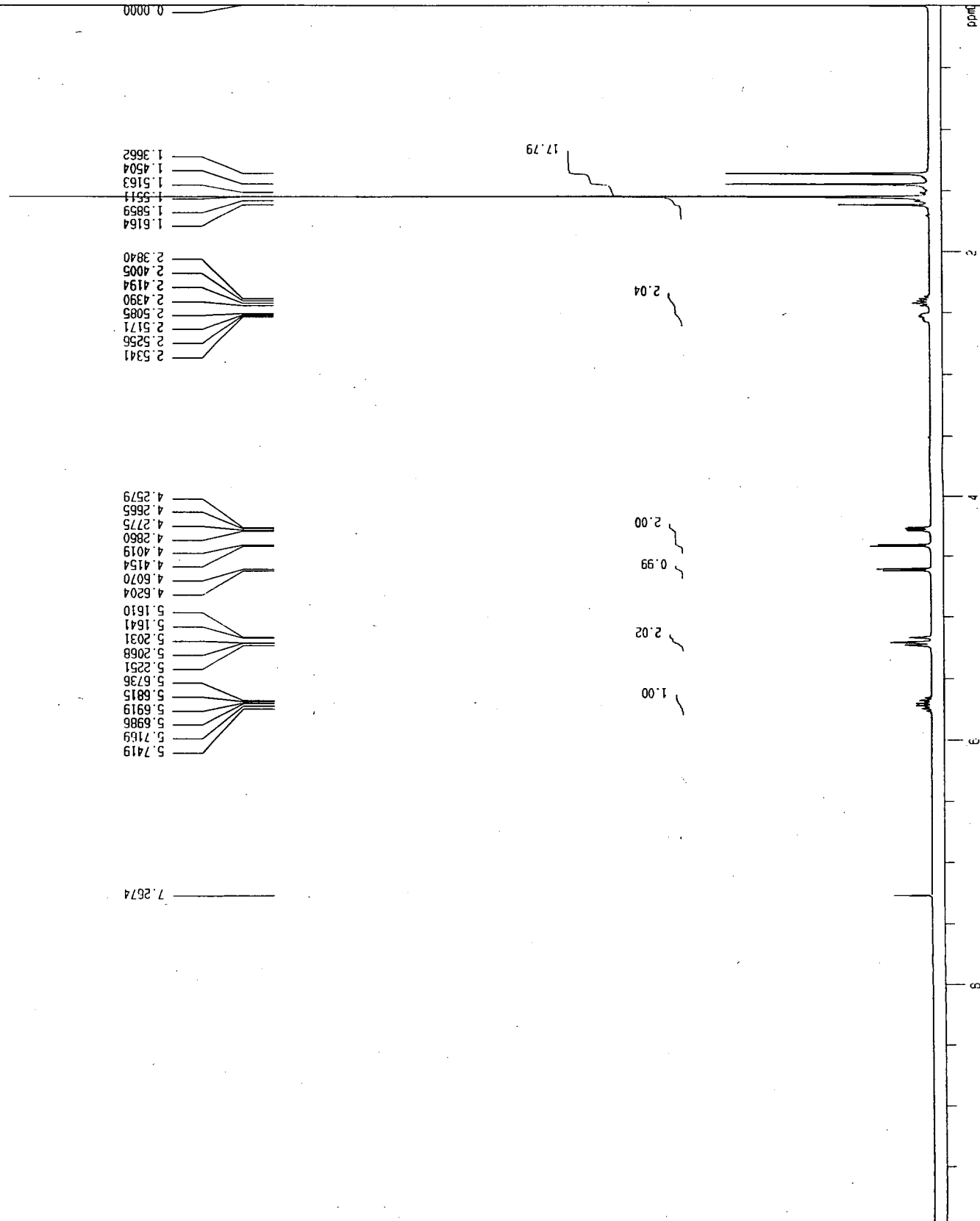
Date : Sat Dec 14 14:22:54 1996  
 File Name : LoadingF10.rmdata  
 Comment : bcm (ARK-180(H))  
 Slice History : non  
 EXMODE : non

POINT : 32768 points  
 SAMPD : 32768 points  
 FREQ0 : 7993.6 Hz  
 F1LTR : 4000 Hz  
 DELAY : 50.0 usec  
 DEAT0 : 72.4 usec  
 INTVL : 125.1 usec  
 TIMES : 4 times  
 DUMMY : 1 times  
 PD : 2.9007 sec  
 ACQTM : 4099.2769 msec  
 PREDL : 10.0000 msec  
 INIWT : 10.0000 msec  
 RESOL : 0.24 Hz  
 PW1 : 5.20 usec  
 OBNUC : 1H  
 OBFRO : 399.65 MHz  
 OBSET : 134300.00 Hz  
 RGAIN : 19

SCANS : 4 times  
 SLVNT : CDCl3  
 SPINNING : 13 Hz  
 TEMP : 26.2 C



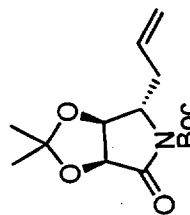
400 MHz  
<sup>1</sup>H NMR



Date : Sat Dec 14 15:55:15 1996

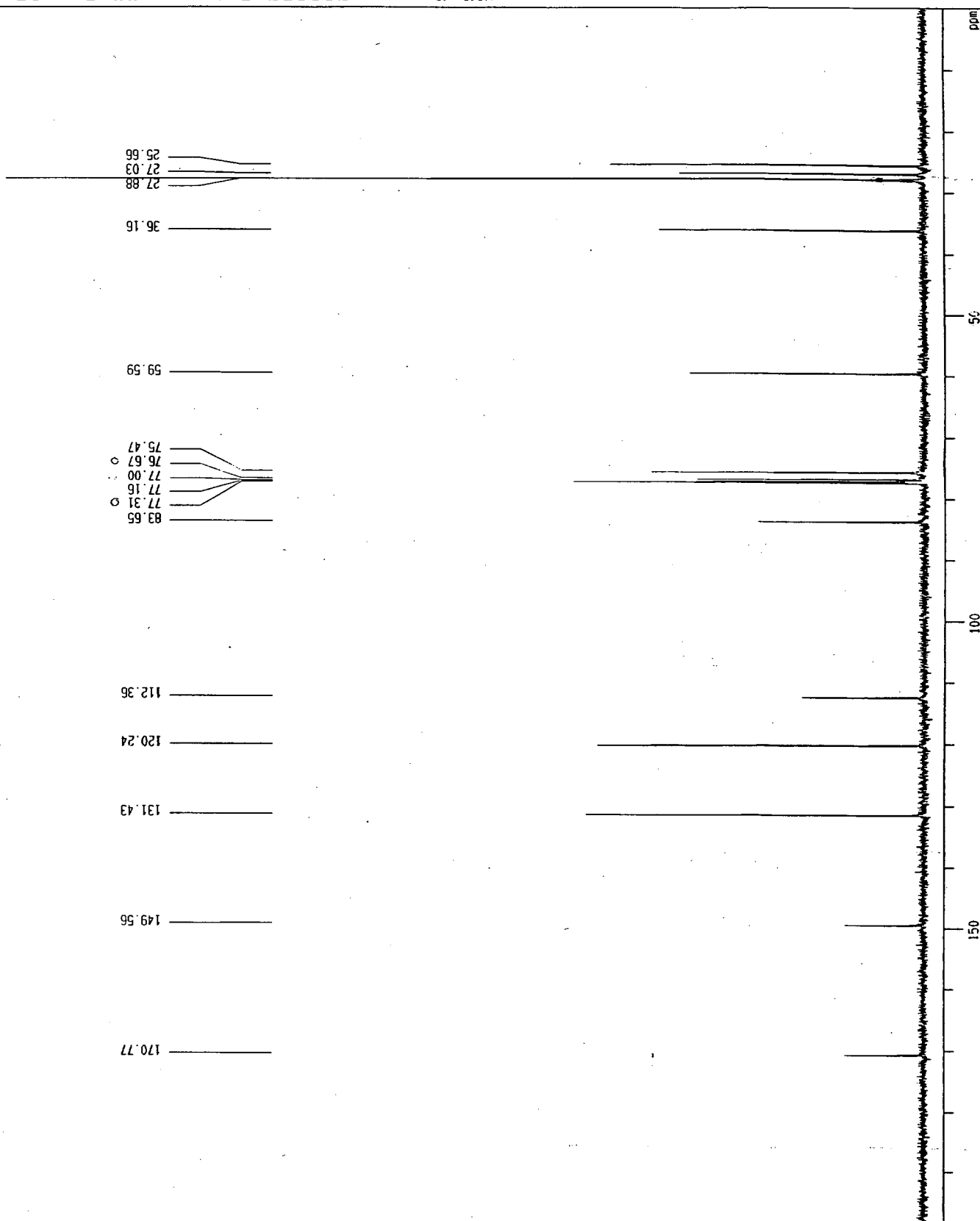
FileName : Load  
 Comment : bcm  
 SliceHistory :  
 EXMODE : bcm

16:51 points  
 16:54 points  
 27100.3 Hz  
 13550 Hz  
 14.8 usec  
 19.9 usec  
 36.9 usec  
 128 times  
 1 times  
 2.3551 sec  
 604.5696 msec  
 10.0000 msec  
 10.0000 msec  
 1.65 Hz  
 4.50 usec  
 13C  
 100.10 MHz  
 135500.00 Hz  
 28  
 1H  
 399.55 MHz  
 134300.00 Hz  
 45.0 usec  
 0  
 128 times  
 COCL3  
 14 Hz  
 27.3 C



**19**  
 100 MHz  
<sup>13</sup>C NMR

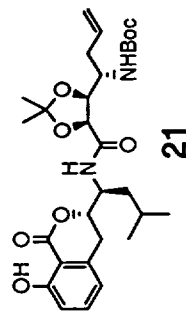
bcm



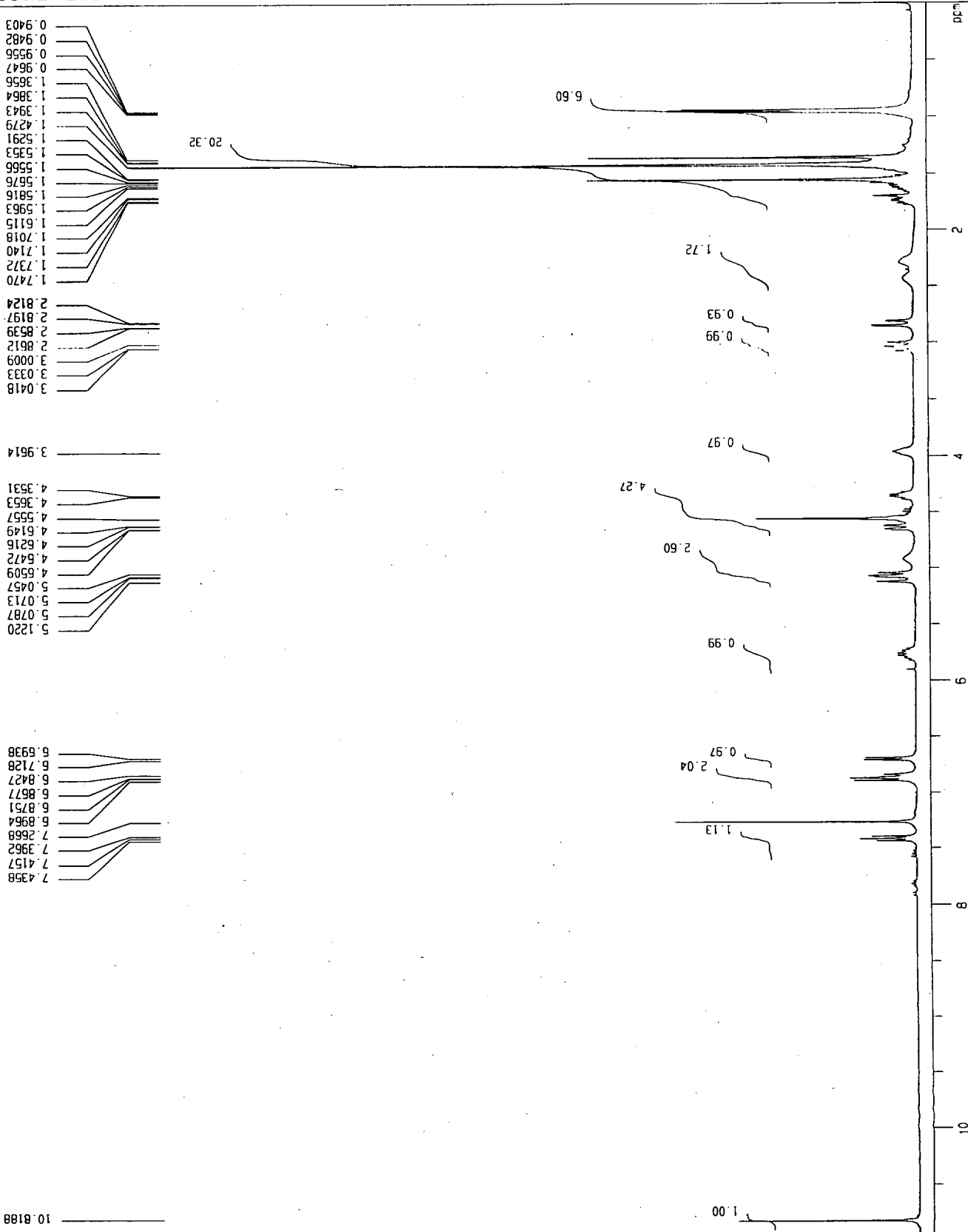
ark-418

Date : Sun Jan 10 06:23:33 1999  
 LoadingFID.mdata  
 Comment ark-418  
 SliceHistory non  
 EXMODE

POINT 32768 points  
 SAMPO 32768 points  
 FREQ 7993.6 Hz  
 FILTER 4000 Hz  
 DELAY 50.0 usec  
 DEADT 72.4 usec  
 INVTL :25.1 usec  
 TIMES 8 Times  
 DUMMY 1 Times  
 PD 2.9007 sec  
 ACQTM 4099.2769 msec  
 PREDL 10.0000 msec  
 INIWT 1000.0000 msec  
 RESOL 0.24 Hz  
 PW1 5.25 usec  
 OBNUC 1H  
 OBPRO 399.65 MHz  
 OBSET 134300.00 Hz  
 RGAIN 21  
 SCANS E Times  
 SLVNT CDCl3  
 SPINNING 15 Hz  
 TEMP 19.2 C



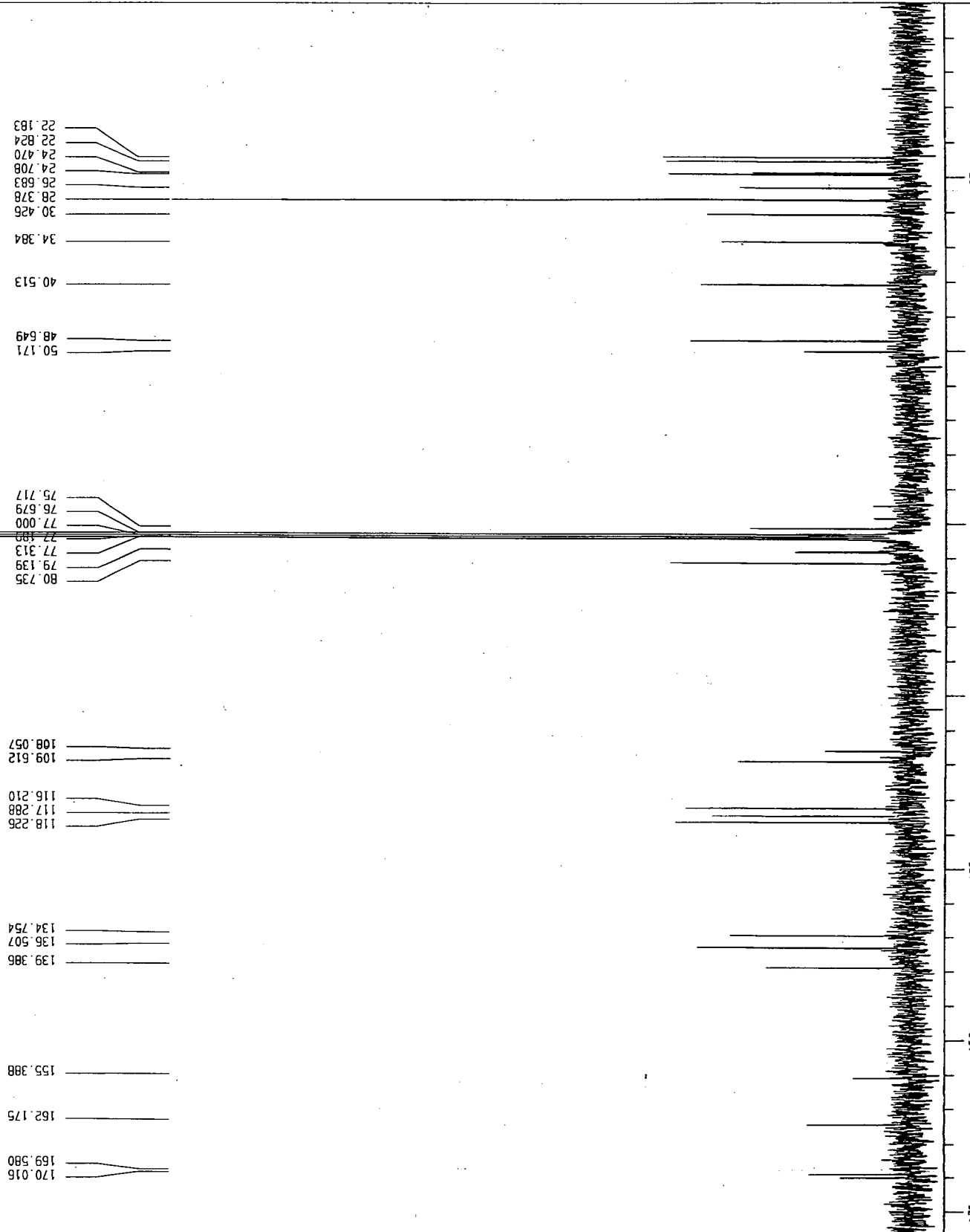
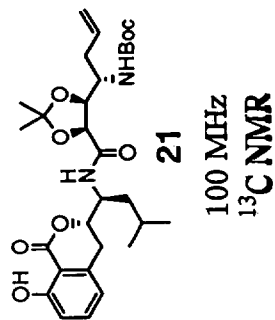
400 MHz  
<sup>1</sup>H NMR



ark-418

Date : Sat Jan 9 20:02:14 1999  
 LoadingFID.mmdata  
 Comment ark-418  
 SliceHistory  
 EXMODE ccm

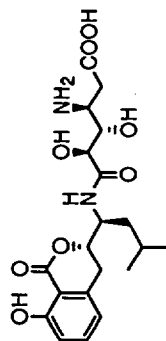
POINT 32768 points  
 SAMPD 32768 points  
 FREQU 27100.3 Hz  
 FILTR 16250 Hz  
 DELAY 14.7 usec  
 DEADT 5.0 usec  
 INIYL 36.9 usec  
 TIMES 300 times  
 DUMMY 1 times  
 PD 1.7909 sec  
 ACQTM 1209.1393 msec  
 PREDL 10.00000 msec  
 INIYT 1000.0000 msec  
 RESOL 0.83 Hz  
 PK1 4.65 usec  
 :3C 100.40 MHz  
 :3C 135500.00 -2  
 :H 30  
 :H 399.65 MHz  
 :3C 134300.00 -2  
 :3C 50.0 usec  
 :3C 0  
 SCANS 300 times  
 SLVNT CDCL3  
 SPINNING 14 Hz  
 TEMP 23.1 C



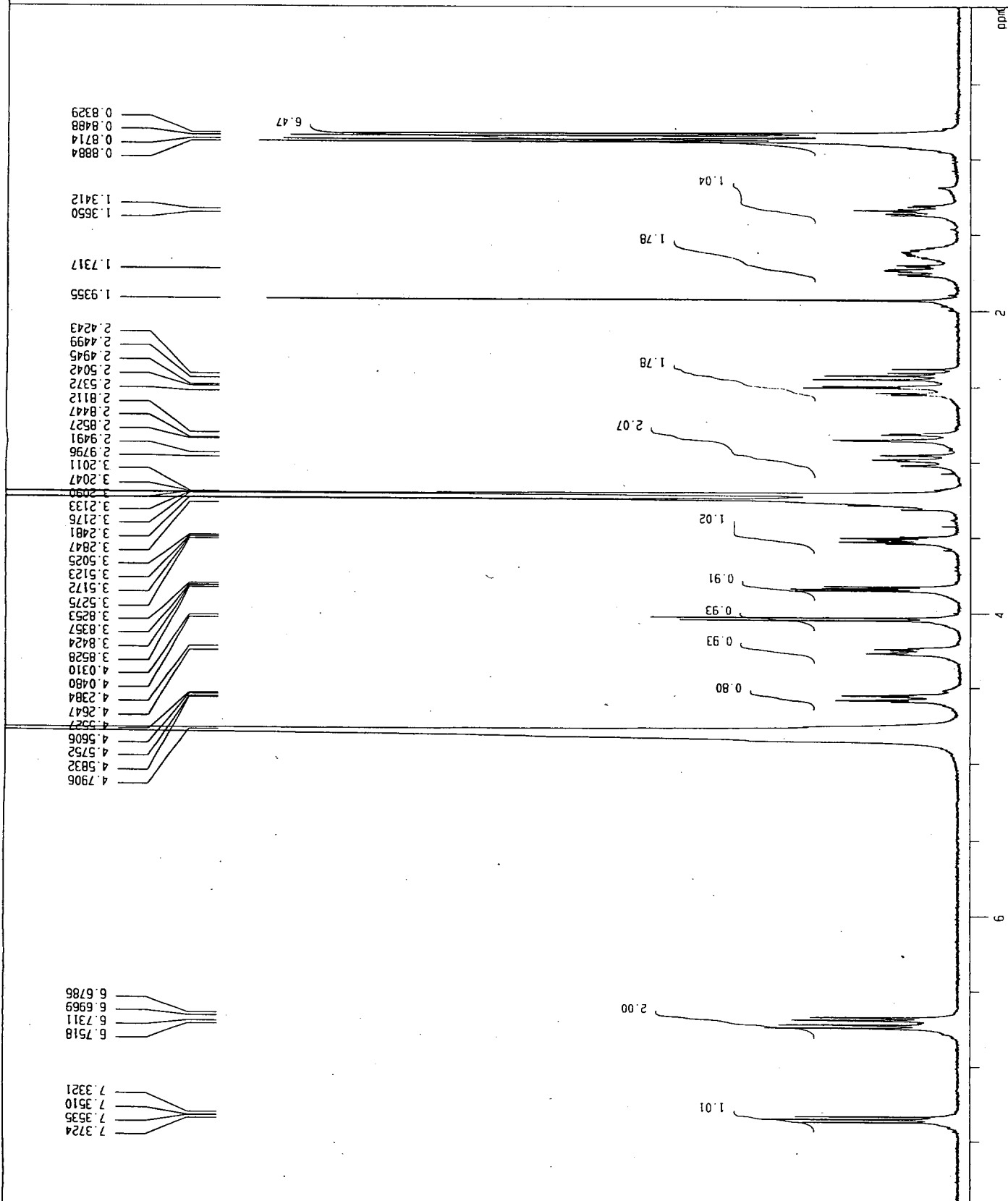
Date : Fri Jan 29 19: 41: 22 1999

FileName : auto\_h\_mmdata  
 Comment : non  
 SliceHistory : non

EXMODE :  
 POINT 32768 points  
 SAMPO 32768 points  
 FREQU 7993.6 Hz  
 FILTR 4000 Hz  
 DELAY 50.0 usec  
 DEADT 72.4 usec  
 INTVL 125.1 usec  
 TIMES 8 times  
 DUMMY 0 times  
 PD 2.9007 sec  
 ACQTM 4099.2769 msec  
 PREDL 10.00000 msec  
 INIWT 0.5000 msec  
 RESOL 0.24 Hz  
 PH1 5.25 usec  
 OBNUC 1H  
 OBFRQ 399.65 MHz  
 OBSET 134300.00 Hz  
 RGAIN 22  
 SCANS 8 times  
 SLVNT CD300  
 SPINNING 14 Hz  
 TEMP 21.6 C

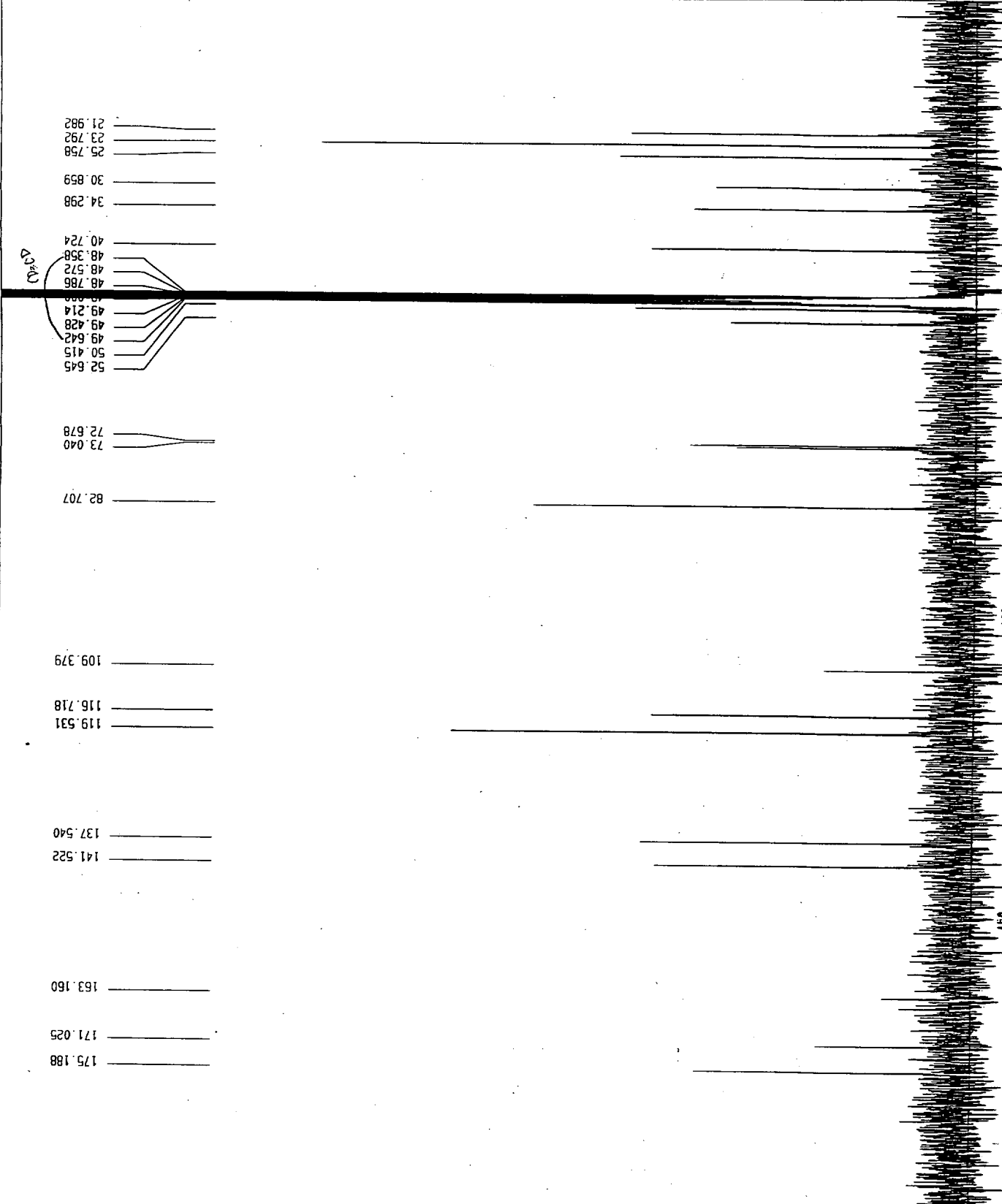


**AI-77-B (1)**  
 400 MHz <sup>1</sup>H NMR  
 (CD<sub>3</sub>OD)



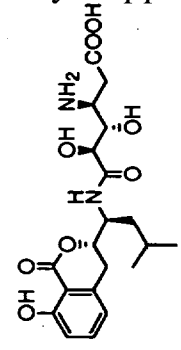
NON

AI-77-B



Date : Sat Jan 23 18:55:25 1999  
 FileName : LoadingID.mdata  
 Comment : AI-77-B  
 SliceHistory :  
 EXMODE : bcm

POINT 32768 points  
 SAMPO 32768 points  
 FREQ0 27100.3 Hz  
 FILTR 16250 Hz  
 DELAY 14.7 usec  
 DEADT 5.0 usec  
 INTVL 36.9 usec  
 TIMES 512 times  
 DUMMY 1 times  
 PD 1.7909 sec  
 ACQTM 1209.1393 msec  
 PREDL 10.00000 msec  
 INIWT 1000.0000 msec  
 RESOL 0.83 Hz  
 PW1 4.65 usec  
 CBNUC 13C  
 CBFRQ 100.40 MHz  
 CBSET 135500.00 Hz  
 RGAIN 28  
 IRNUC 1H  
 IRFRQ 399.65 MHz  
 IRSET 134300.00 Hz  
 IRPWP 50.0 usec  
 IRRNS 0  
 SCANS 512 times  
 SLVNT CD3OD  
 SPINNT 13 Hz  
 TEMP 24.1 C



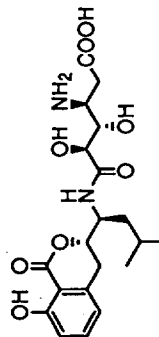
**AI-77-B (1)**  
 100 MHz <sup>13</sup>C NMR  
 (CD<sub>3</sub>OD)

ark-508

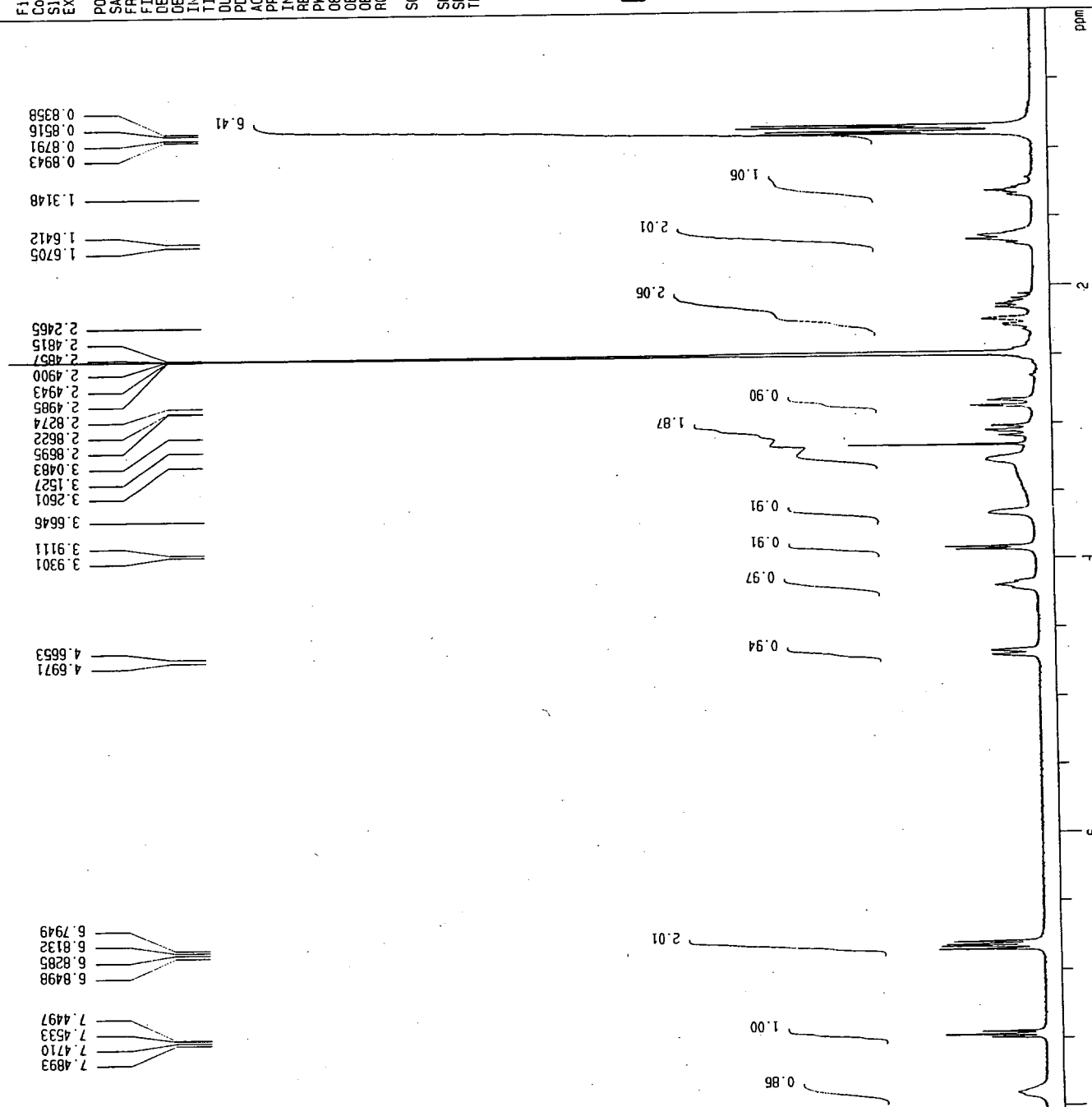
Date : Fri Jan 29 08:40:36 1999  
 File Name : LoadingFD.nmdata  
 Comment : ark-508  
 Slice History : non  
 EXMODE : non

POINT 32768 points  
 SAMPO 32768 points  
 FREQ 7993.6 Hz  
 F1TR 1600 Hz  
 DELAY 50.0 usec  
 DEADT 72.1 usec  
 INTVL 125.1 usec  
 TIMES 6 times  
 DUMMY 1 times  
 PD 2.9007 sec  
 ACOPTM 4099.2769 msec  
 PREDL 10.00000 msec  
 INTRM 10.00000 msec  
 RESOL 0.24 Hz  
 PWT 5.20 usec  
 1H 1H 399.65 MHz  
 OBSFRQ 134300.00 Hz  
 RBSET 19  
 RGAIN 19

SCANS : 8 times  
 SLVNT : DMSO  
 SPINNING : 13 Hz  
 TEMP : 20.7 C



**Al-77-B (1)**  
 100 MHz <sup>13</sup>C NMR  
 (DMSO-d<sub>6</sub>)

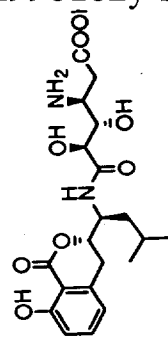


ark-508

Date : Fri Jan 29 14: 48: 07 1999  
 FileName LoadingID.mdata  
 Comment ark-508  
 SliceHistory bcn

POINT 32768 points  
 SAMPD 32768 points  
 FREQD 27100.3 Hz  
 FILTR 13550 Hz  
 DELAY 14.8 usec  
 DEADT 19.8 usec  
 INVTL 36.9 usec  
 TIMES 1000 times  
 DUMMY 1 times  
 PD 1.7909 sec  
 ACQTM 1209.1393 msec  
 PREDL 10.0000 msec  
 ININT 1000.0000 msec  
 RESOL 0.83 Hz  
 PWR1 4.65 usec  
 OBNUC 13C  
 OBFRQ 100.40 MHz  
 OBSET 135500.00 Hz  
 RGAIN 30  
 IRNUC 1H  
 IRFRQ 399.65 MHz  
 IRSET 134109.48 Hz  
 IRPWP 50.0 usec  
 IRRNS 0

SCANS 1000 times  
 SLVNT DMSO  
 SPINNT 13 Hz  
 TEMP 23.7 C



**AI-77-B (1)**  
 100 MHz <sup>1</sup>H NMR  
 (DMSO-d<sub>6</sub>)

