

Antifungalmycin, an antifungal macrolide from *Streptomyces padanus* 702

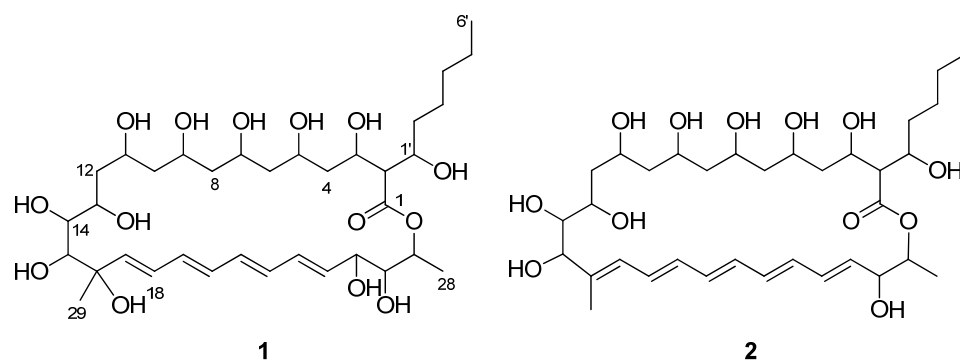
Yi-Fen WANG,^{a,†} Sai-Jin WEI,^{b,†} Zhi-Ping ZHANG,^b Tong-He ZHAN,^b and Guo-Quan TU^{b,*}

^aState Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, China

^bChina Biological Science and Engineering College of Jiangxi Agriculture University, Nanchang Key Laboratory of Fermentation Application Technology, Nanchang 330045, China

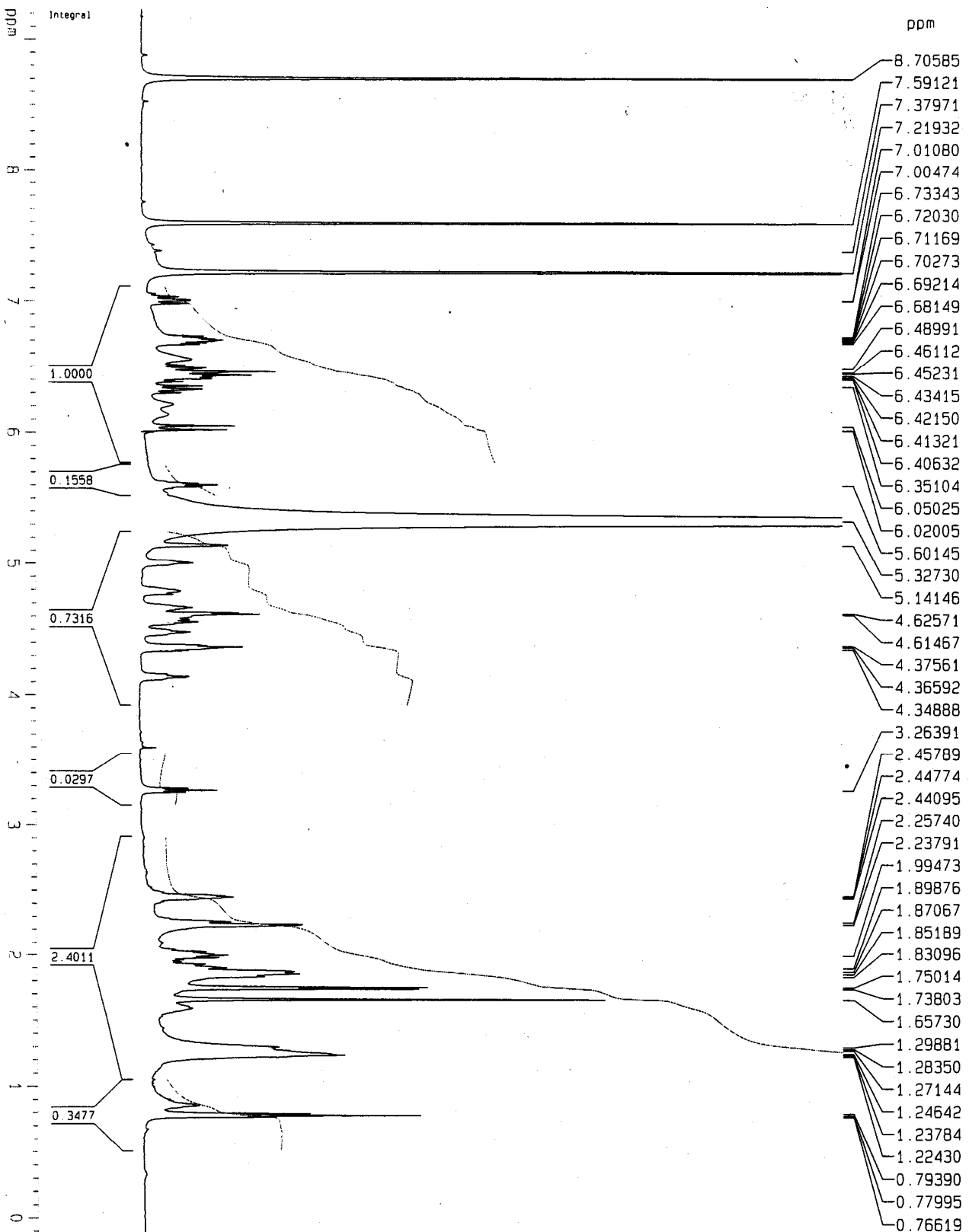
[†]These authors contributed equally to this work.

Received 23 November 2011; Accepted 20 February 2012



Structures of compounds 1 and 2.

*To whom correspondence should be addressed. E-mail: weisaijin@126.com



Current Data Parameters

NAME	dzp12
EXPNO	21
PROCNO	1

F2 - Acquisition Parameters

Date_	20091022
Time	13.29
INSTRUM	spect
PROBHD	5 mm BBI 1H-BB
PULPROG	zg
TD	32768
SOLVENT	Acetone
NS	1
DS	0
SWH	7507.507 Hz
FIDRES	0.229111 Hz
AQ	2.1823988 sec
RG	25.4
DM	66.600 usec
DE	6.00 usec
TE	0.0 K
D1	1.00000000 sec
MCREST	0.00000000 sec
MCNMR	0.01500000 sec

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

NUC1	1H
P1	9.20 usec
PL1	-1.00 dB
SFO1	500.0330002 MHz

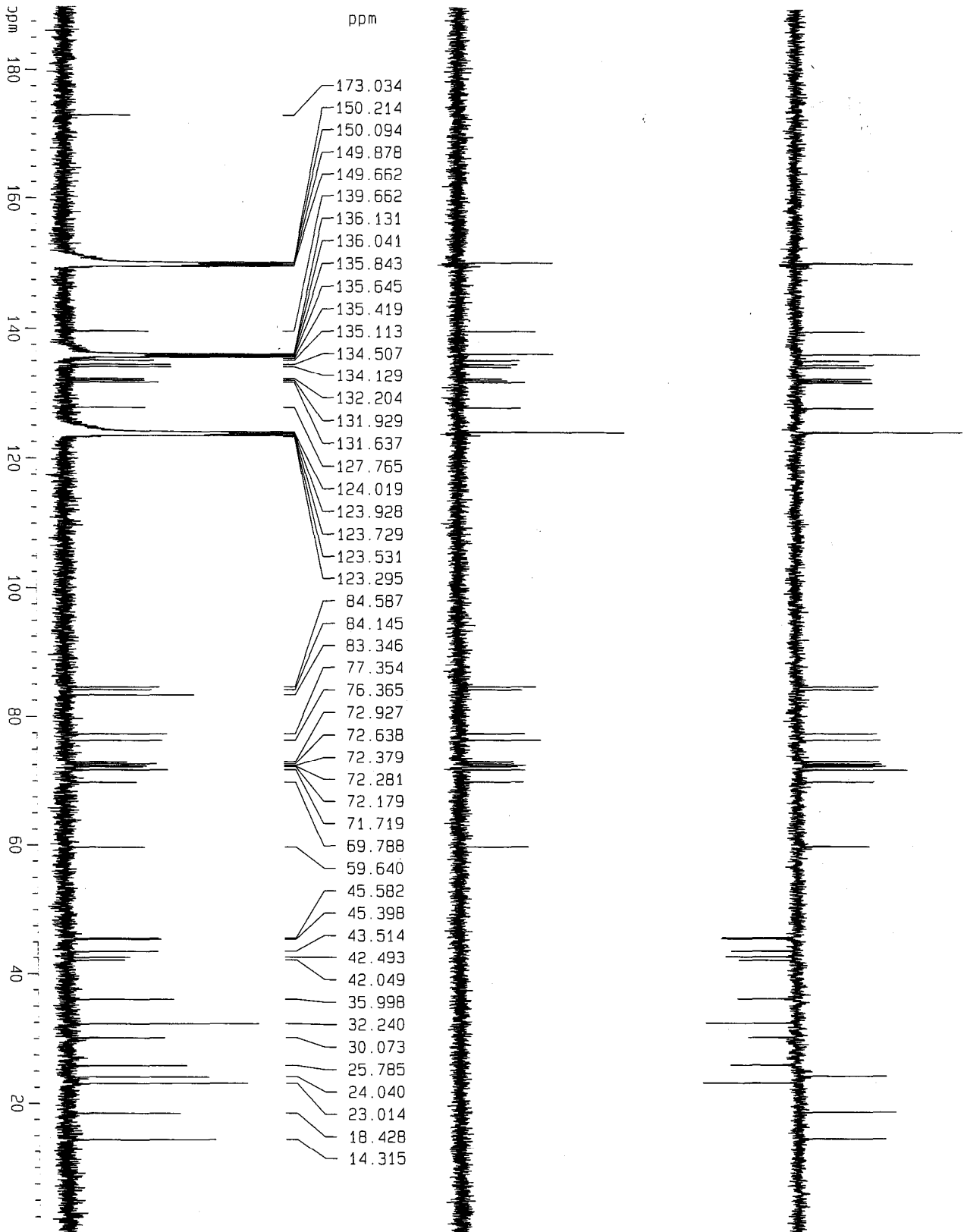
F2 - Processing parameters

SI	16384
SF	500.0299976 MHz
WDW	EM
SSB	0
LB	0.30 Hz
GB	0
PC	1.00

1D NMR plot parameters

CX	22.00 cm
CY	230.00 cm
F1P	9.236 ppm
F1	4618.03 Hz
F2P	-0.129 ppm
F2	-64.41 Hz
PPMCM	0.42565 ppm/cm
HZCM	212.83804 Hz/cm

dzp12 c13



Current Data Parameters

NAME	dzp12
EXPNO	22
PROCNO	1

F2 - Acquisition Parameters

Date_	20091029
Time	19.35
INSTRUM	spect
PROBHD	5 mm DUL 13C-1
PULPROG	zgpg
TD	32768
SOLVENT	Pyr
NS	480
DS	0
SWH	28995.508 Hz
FIDRES	0.884567 Hz
AQ	0.5652980 sec
RG	2296.8
DM	17.250 usec
DE	6.00 usec
TE	0.0 K
D1	3.00000000 sec
d11	0.03000000 sec
MCOREST	0.00000000 sec
MCORRK	0.01500000 sec

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

MU1	13C
P1	5.90 usec
PL1	0.00 dB
SFO1	125.7467261 MHz

***** CHANNEL f2 *****

CPDPRG2	waltz16
MU2	1H
PCPD2	84.00 usec
PL2	-4.00 dB
PL12	18.00 dB
SFO2	500.0325001 MHz

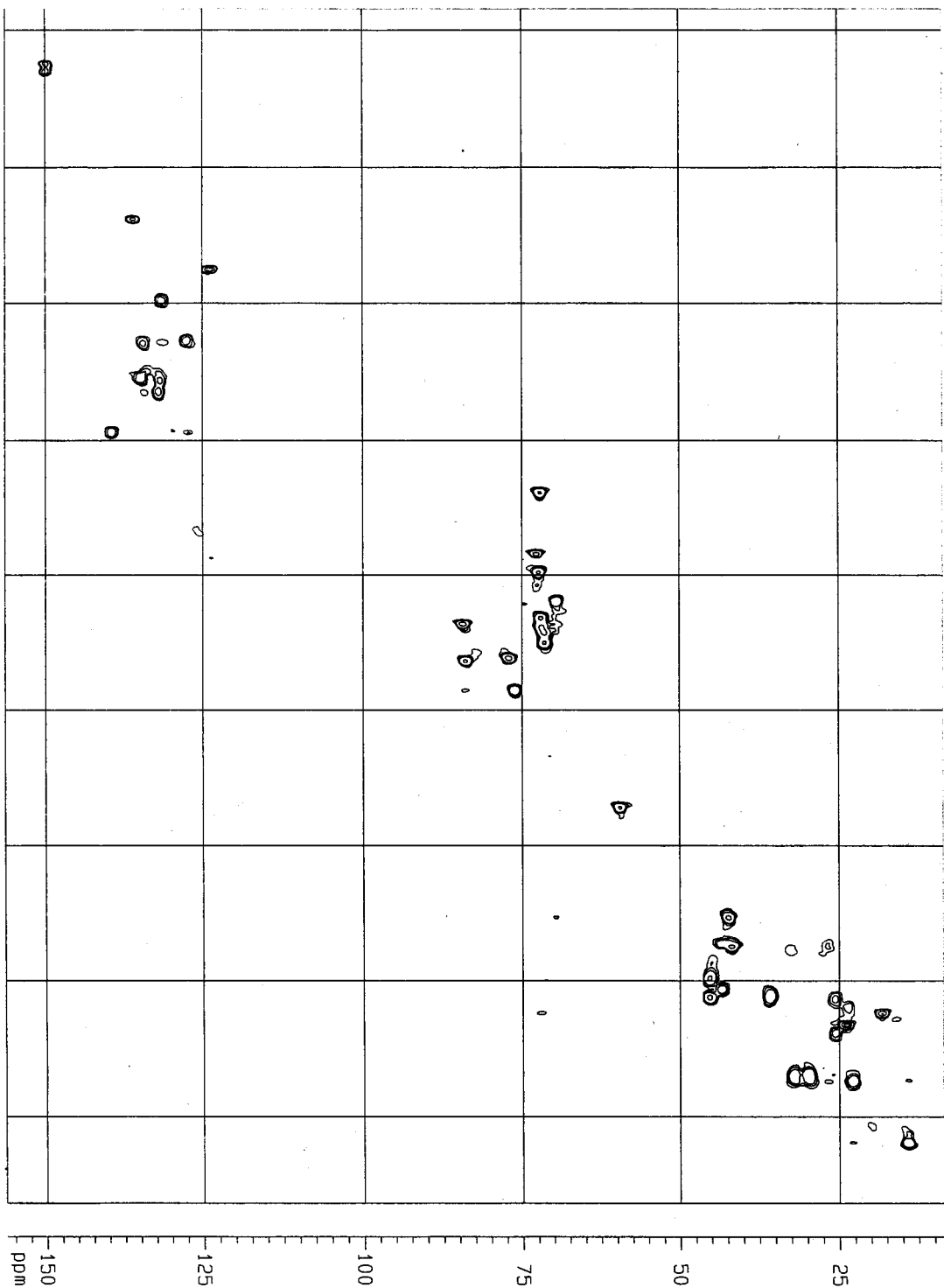
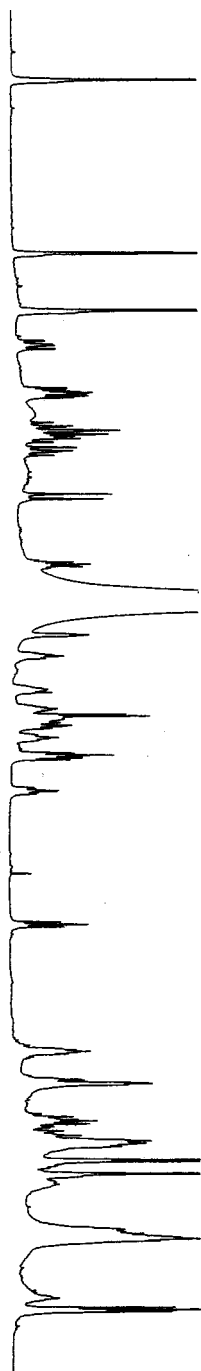
F2 - Processing Parameters

SF	125.7326006 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.30

10 NMR plot parameters

CX	22.00 cm
CY	65.00 cm
F1P	190.000 ppm
F1	23889.19 Hz
F2P	-0.000 ppm
F2	-0.00 Hz
PPMCH	8.63636 ppm/cm
HZCH	1095.87244 Hz/cm

dzp12 hsqc



Current Data Parameters
NAME dzp12
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters

Date_ 20080912
Time 9.21
INSTRUM spect
PROBHD 5 mm BBI 1H-13C
PULPROG zgpg30
TD 65536
SOLVENT Py-
NS 2
DS 2
SWH 6000.615 Hz
FIDRES 0.000765 Hz
AQ 0.000468 sec
RG 327.500
DE 6.00 usec
TE 300.2 K
DELTA 0.00000000 sec
DELTAD 0.00000000 sec
DELTAD2 0.00000000 sec
DELTAD3 0.00000000 sec
DELTAD4 0.00000000 sec
DELTAD5 0.00000000 sec
DELTAD6 0.00000000 sec
DELTAD7 0.00000000 sec
DELTAD8 0.00000000 sec
DELTAD9 0.00000000 sec
DELTAD10 0.00000000 sec
DELTAD11 0.00000000 sec
DELTAD12 0.00000000 sec
DELTAD13 0.00000000 sec
DELTAD14 0.00000000 sec
DELTAD15 0.00000000 sec
DELTAD16 0.00000000 sec
DELTAD17 0.00000000 sec
DELTAD18 0.00000000 sec
DELTAD19 0.00000000 sec
DELTAD20 0.00000000 sec
DELTAD21 0.00000000 sec
DELTAD22 0.00000000 sec
DELTAD23 0.00000000 sec
DELTAD24 0.00000000 sec
DELTAD25 0.00000000 sec
DELTAD26 0.00000000 sec
DELTAD27 0.00000000 sec
DELTAD28 0.00000000 sec
DELTAD29 0.00000000 sec
DELTAD30 0.00000000 sec
DELTAD31 0.00000000 sec
DELTAD32 0.00000000 sec
DELTAD33 0.00000000 sec
DELTAD34 0.00000000 sec
DELTAD35 0.00000000 sec
DELTAD36 0.00000000 sec
DELTAD37 0.00000000 sec
DELTAD38 0.00000000 sec
DELTAD39 0.00000000 sec
DELTAD40 0.00000000 sec
DELTAD41 0.00000000 sec
DELTAD42 0.00000000 sec
DELTAD43 0.00000000 sec
DELTAD44 0.00000000 sec
DELTAD45 0.00000000 sec
DELTAD46 0.00000000 sec
DELTAD47 0.00000000 sec
DELTAD48 0.00000000 sec
DELTAD49 0.00000000 sec
DELTAD50 0.00000000 sec
DELTAD51 0.00000000 sec
DELTAD52 0.00000000 sec
DELTAD53 0.00000000 sec
DELTAD54 0.00000000 sec
DELTAD55 0.00000000 sec
DELTAD56 0.00000000 sec
DELTAD57 0.00000000 sec
DELTAD58 0.00000000 sec
DELTAD59 0.00000000 sec
DELTAD60 0.00000000 sec
DELTAD61 0.00000000 sec
DELTAD62 0.00000000 sec
DELTAD63 0.00000000 sec
DELTAD64 0.00000000 sec
DELTAD65 0.00000000 sec
DELTAD66 0.00000000 sec
DELTAD67 0.00000000 sec
DELTAD68 0.00000000 sec
DELTAD69 0.00000000 sec
DELTAD70 0.00000000 sec
DELTAD71 0.00000000 sec
DELTAD72 0.00000000 sec
DELTAD73 0.00000000 sec
DELTAD74 0.00000000 sec
DELTAD75 0.00000000 sec
DELTAD76 0.00000000 sec
DELTAD77 0.00000000 sec
DELTAD78 0.00000000 sec
DELTAD79 0.00000000 sec
DELTAD80 0.00000000 sec
DELTAD81 0.00000000 sec
DELTAD82 0.00000000 sec
DELTAD83 0.00000000 sec
DELTAD84 0.00000000 sec
DELTAD85 0.00000000 sec
DELTAD86 0.00000000 sec
DELTAD87 0.00000000 sec
DELTAD88 0.00000000 sec
DELTAD89 0.00000000 sec
DELTAD90 0.00000000 sec
DELTAD91 0.00000000 sec
DELTAD92 0.00000000 sec
DELTAD93 0.00000000 sec
DELTAD94 0.00000000 sec
DELTAD95 0.00000000 sec
DELTAD96 0.00000000 sec
DELTAD97 0.00000000 sec
DELTAD98 0.00000000 sec
DELTAD99 0.00000000 sec
DELTAD100 0.00000000 sec

F1 - Processing parameters

SI 512
SF 500.136290 MHz
WDW EM
SSB 0
GB 0
PC 1.40

F2 - Processing parameters

SI 512
SF 500.136290 MHz
WDW EM
SSB 0
GB 0
PC 1.40

F3 - Processing parameters

SI 512
SF 500.136290 MHz
WDW EM
SSB 0
GB 0
PC 1.40

F4 - Processing parameters

SI 512
SF 500.136290 MHz
WDW EM
SSB 0
GB 0
PC 1.40

F5 - Processing parameters

SI 512
SF 500.136290 MHz
WDW EM
SSB 0
GB 0
PC 1.40

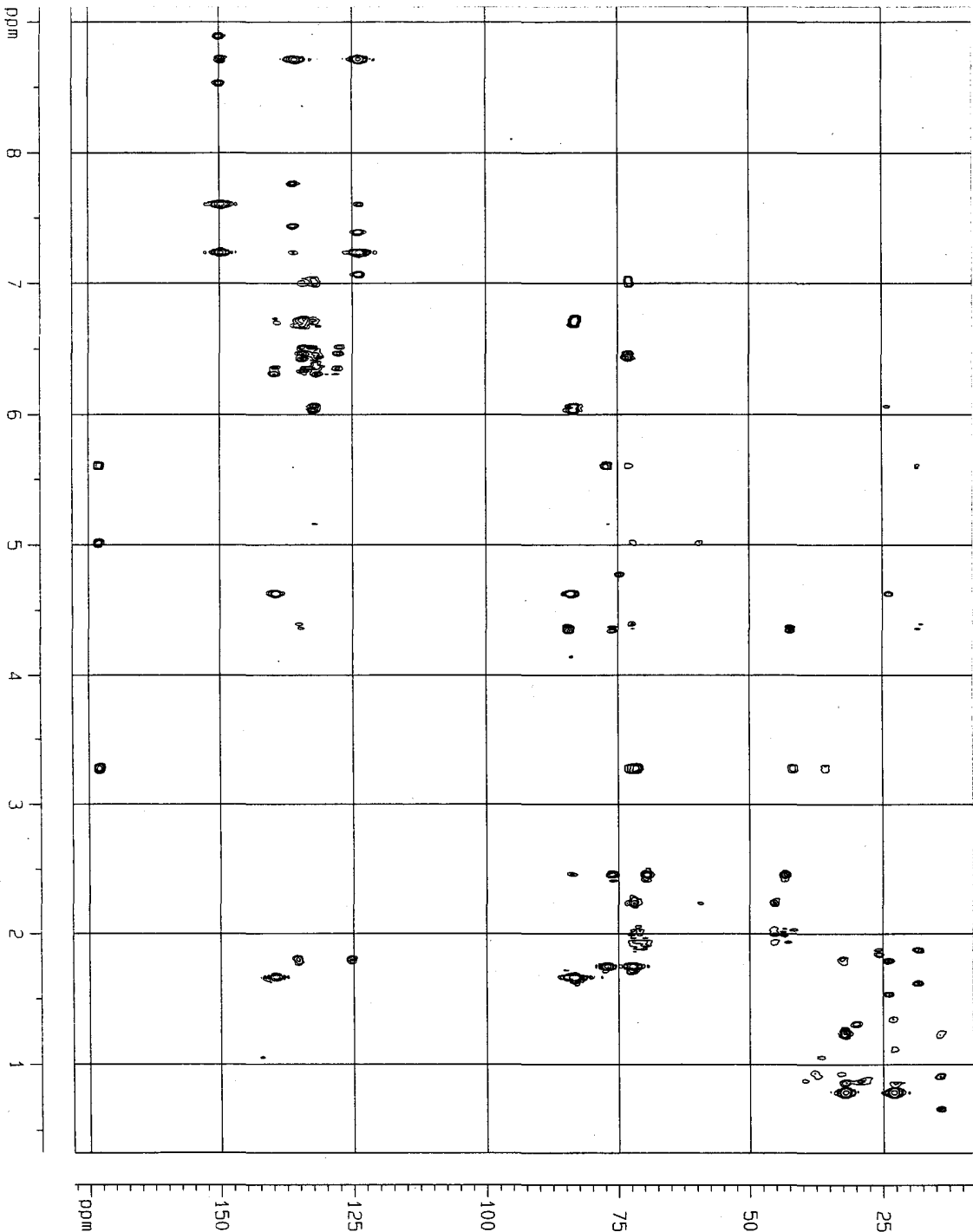
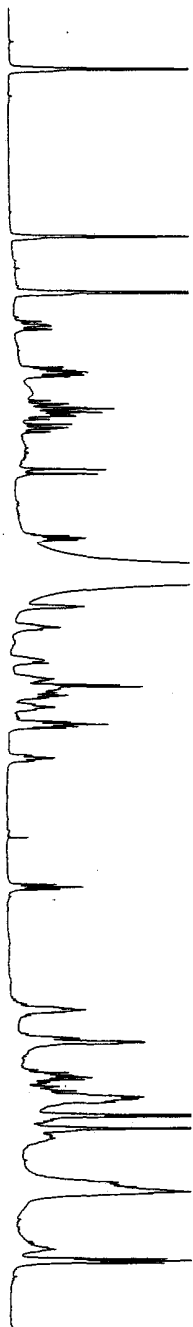
F6 - Processing parameters

SI 512
SF 500.136290 MHz
WDW EM
SSB 0
GB 0
PC 1.40

F7 - Processing parameters

SI 512
SF 500.136290 MHz
WDW EM
SSB 0
GB 0
PC 1.40

dzp12 hmbc



Current Data Parameters

NAME dzp12
EXPNO 32
PROCNO 1

F2 - Acquisition Parameters

DATE_ 20081113
TIME 17:46
INSTRUM spect
PROBHD 5 mm BBI 1H-13
PULPROG invgob1d1rnu1
TD 65536
SOLVENT DMS
NS 16
DS 16
SWH 6000.615 Hz
FIDRES 2.934382 Hz
AQ 0.170435 sec
RG 327.50
RG2 327.50
RG3 327.50
RG4 327.50
RG5 327.50
RG6 327.50
RG7 327.50
RG8 327.50
RG9 327.50
RG10 327.50
RG11 327.50
RG12 327.50
RG13 327.50
RG14 327.50
RG15 327.50
RG16 327.50
RG17 327.50
RG18 327.50
RG19 327.50
RG20 327.50
RG21 327.50
RG22 327.50
RG23 327.50
RG24 327.50
RG25 327.50
RG26 327.50
RG27 327.50
RG28 327.50
RG29 327.50
RG30 327.50
RG31 327.50
RG32 327.50
RG33 327.50
RG34 327.50
RG35 327.50
RG36 327.50
RG37 327.50
RG38 327.50
RG39 327.50
RG40 327.50
RG41 327.50
RG42 327.50
RG43 327.50
RG44 327.50
RG45 327.50
RG46 327.50
RG47 327.50
RG48 327.50
RG49 327.50
RG50 327.50
RG51 327.50
RG52 327.50
RG53 327.50
RG54 327.50
RG55 327.50
RG56 327.50
RG57 327.50
RG58 327.50
RG59 327.50
RG60 327.50
RG61 327.50
RG62 327.50
RG63 327.50
RG64 327.50
RG65 327.50
RG66 327.50
RG67 327.50
RG68 327.50
RG69 327.50
RG70 327.50
RG71 327.50
RG72 327.50
RG73 327.50
RG74 327.50
RG75 327.50
RG76 327.50
RG77 327.50
RG78 327.50
RG79 327.50
RG80 327.50
RG81 327.50
RG82 327.50
RG83 327.50
RG84 327.50
RG85 327.50
RG86 327.50
RG87 327.50
RG88 327.50
RG89 327.50
RG90 327.50
RG91 327.50
RG92 327.50
RG93 327.50
RG94 327.50
RG95 327.50
RG96 327.50
RG97 327.50
RG98 327.50
RG99 327.50
RG100 327.50

F1 - Acquisition Parameters

NAME dzp12
EXPNO 32
PROCNO 1
DATE_ 20081113
TIME 17:46
INSTRUM spect
PROBHD 5 mm BBI 1H-13
PULPROG invgob1d1rnu1
TD 65536
SOLVENT DMS
NS 16
DS 16
SWH 6000.615 Hz
FIDRES 2.934382 Hz
AQ 0.170435 sec
RG 327.50
RG2 327.50
RG3 327.50
RG4 327.50
RG5 327.50
RG6 327.50
RG7 327.50
RG8 327.50
RG9 327.50
RG10 327.50
RG11 327.50
RG12 327.50
RG13 327.50
RG14 327.50
RG15 327.50
RG16 327.50
RG17 327.50
RG18 327.50
RG19 327.50
RG20 327.50
RG21 327.50
RG22 327.50
RG23 327.50
RG24 327.50
RG25 327.50
RG26 327.50
RG27 327.50
RG28 327.50
RG29 327.50
RG30 327.50
RG31 327.50
RG32 327.50
RG33 327.50
RG34 327.50
RG35 327.50
RG36 327.50
RG37 327.50
RG38 327.50
RG39 327.50
RG40 327.50
RG41 327.50
RG42 327.50
RG43 327.50
RG44 327.50
RG45 327.50
RG46 327.50
RG47 327.50
RG48 327.50
RG49 327.50
RG50 327.50
RG51 327.50
RG52 327.50
RG53 327.50
RG54 327.50
RG55 327.50
RG56 327.50
RG57 327.50
RG58 327.50
RG59 327.50
RG60 327.50
RG61 327.50
RG62 327.50
RG63 327.50
RG64 327.50
RG65 327.50
RG66 327.50
RG67 327.50
RG68 327.50
RG69 327.50
RG70 327.50
RG71 327.50
RG72 327.50
RG73 327.50
RG74 327.50
RG75 327.50
RG76 327.50
RG77 327.50
RG78 327.50
RG79 327.50
RG80 327.50
RG81 327.50
RG82 327.50
RG83 327.50
RG84 327.50
RG85 327.50
RG86 327.50
RG87 327.50
RG88 327.50
RG89 327.50
RG90 327.50
RG91 327.50
RG92 327.50
RG93 327.50
RG94 327.50
RG95 327.50
RG96 327.50
RG97 327.50
RG98 327.50
RG99 327.50
RG100 327.50

F2 - Processing Parameters

SI 512
SF 500.0269942 MHz
WDW 1024
SSB 0
LB 0.00 Hz
GB 0
PC 1.40
FWDK 0

F1 - Processing Parameters

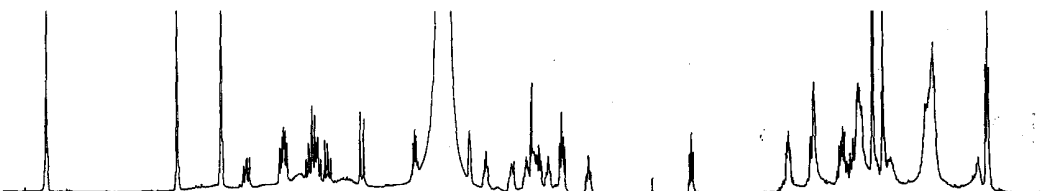
SI 512
SF 500.0269942 MHz
WDW 1024
SSB 0
LB 0.00 Hz
GB 0
PC 1.40
FWDK 0

F2 - Processing Parameters

SI 512
SF 500.0269942 MHz
WDW 1024
SSB 0
LB 0.00 Hz
GB 0
PC 1.40
FWDK 0

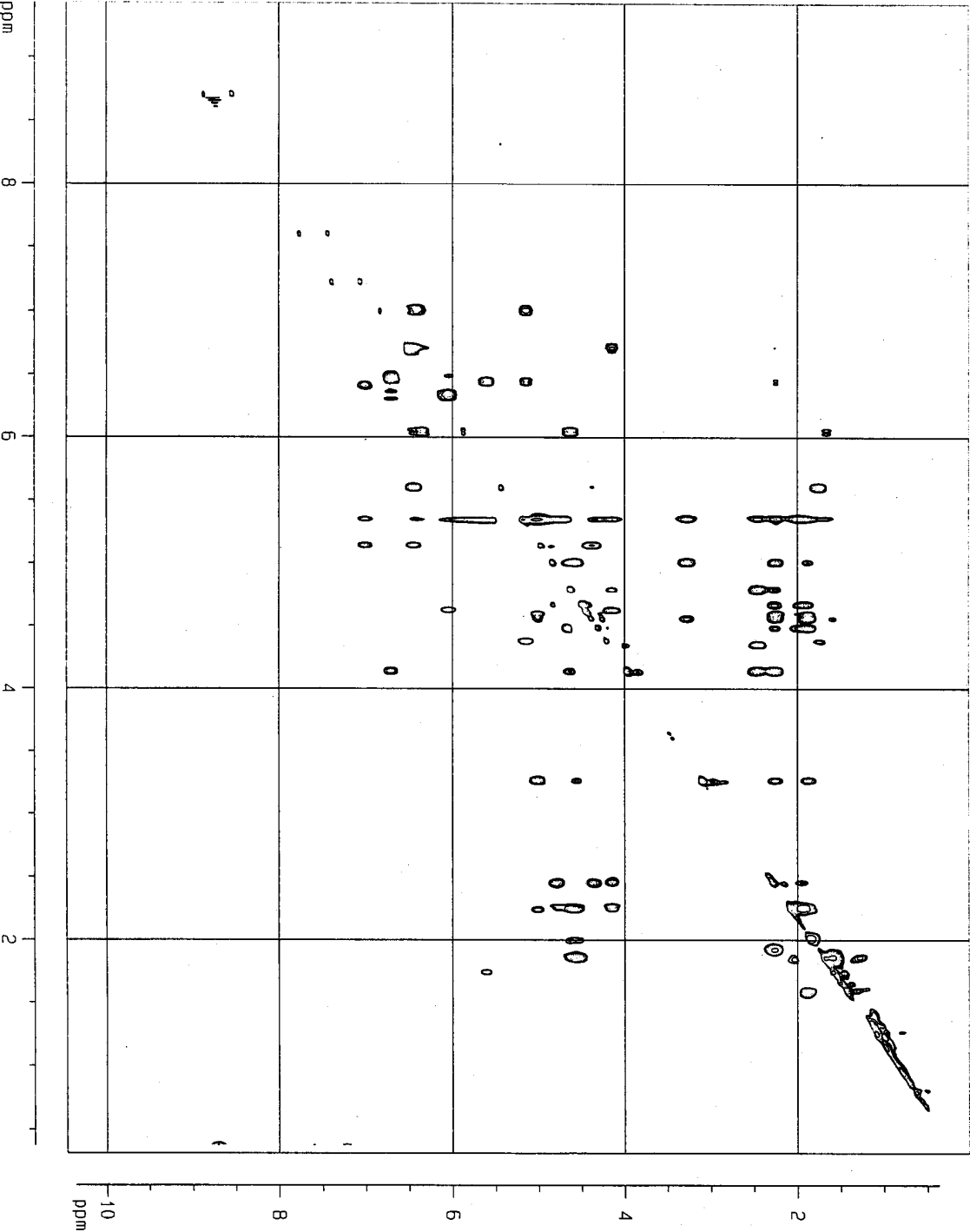
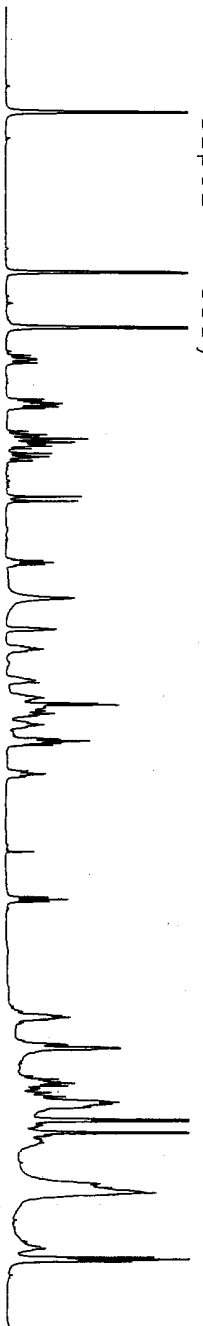
F1 - Processing Parameters

SI 512
SF 500.0269942 MHz
WDW 1024
SSB 0
LB 0.00 Hz
GB 0
PC 1.40
FWDK 0



F2PPMCM	0.48121 mm/c
F2H2CM	240.61937 Hz/cm
F1PPMCM	0.52447 mm/c
F1H2CM	312.25223 Hz/cm

dzp12 roesy



Current Data Parameters
NAME dzp12
EXPNO 28
PROCNO 1

F2 - Acquisition Parameters

Date_ 20091110
Time 18.04
INSTRUM spect
PROBHD 5 mm BBI 1H-BB
PULPROG zgpg30
TD 1024
SOLVENT DMSO

US 4
SMH 500.000 Hz
FIDRES 4.186812 Hz
AQ 0.1024500 sec
RG 96
DW 100.000 usec
DE 6.00 usec
TE 0.0 K
d0 0.0000828 sec
d1 1.2000000 sec
d11 0.0300000 sec
d12 0.0002000 sec
d13 0.0000040 sec
TMO 0.0001999 sec
RGST 0.0000000 sec
RGMR 0.0099999 sec
SICONT 90

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

NUC1 1H
P1 9.20 usec
P15 320000.00 usec
PL1 -1.00 dB
PL9 70.00 dB
PL11 22.00 dB
SFO1 500.026802 MHz

F1 - Acquisition Parameters

NO 1
TD 147
SFO1 500.0261 MHz
FIDRES 34.015732 Hz
SM 10.000 ppm
FMODE States-IP=1

F2 - Processing Parameters

SJ 1024
SF 500.0299953 MHz
WDW GSSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing Parameters

SI 1024
States-IP=1
MC2 500.0294155 MHz
SF GSSINE
WDW 2
SSB 2
LB 0.00 Hz
GB 0

2D NMR Plot Parameters

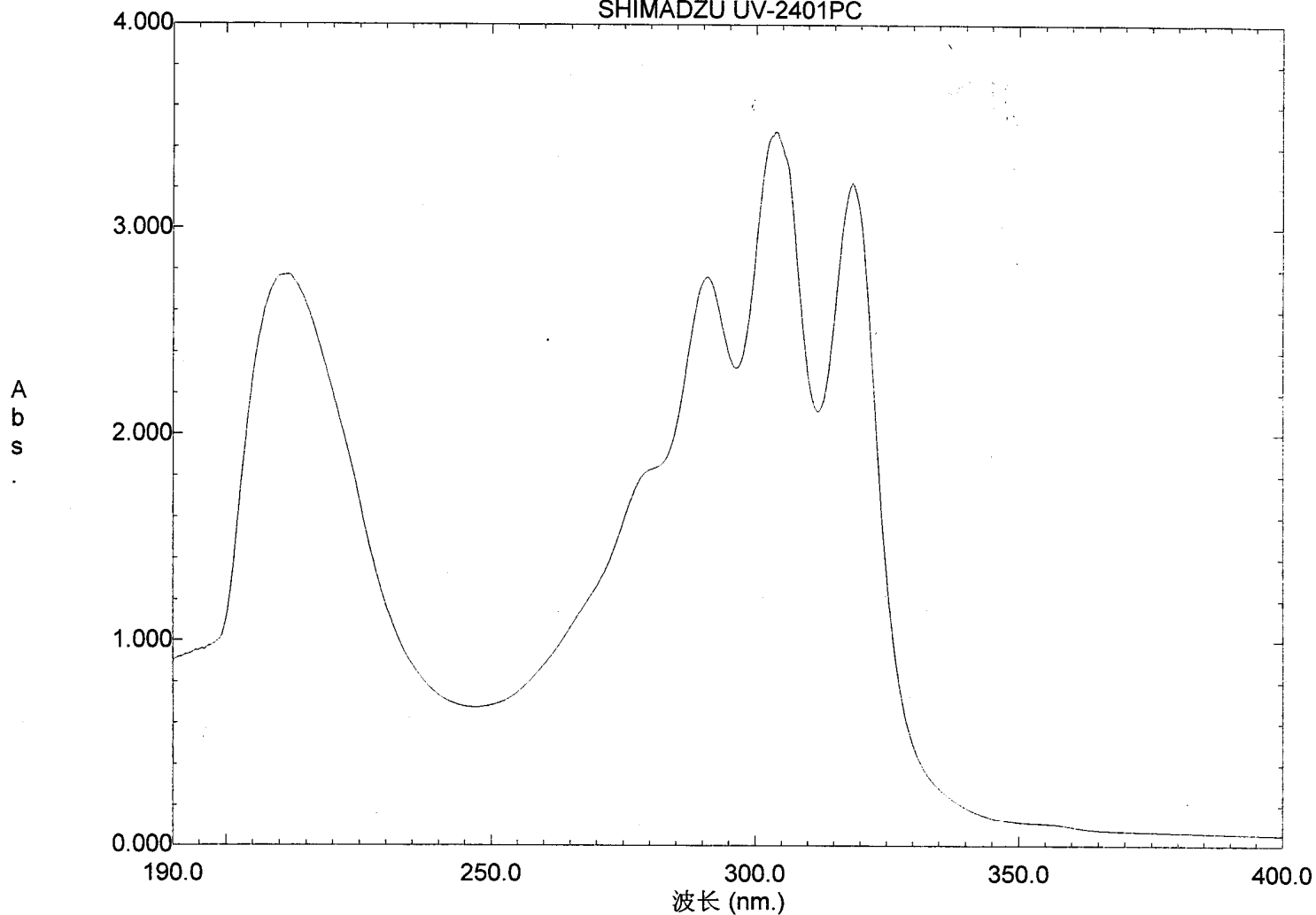
CX2 18.00 cm
CX1 14.00 cm
F2PUL0 9.431 ppm
F2ALO 4715.80 Hz
F2PH1 0.316 ppm
F2PH1 157.92 Hz
F1PUL0 10.464 ppm
F1ALO 5232.48 Hz
F1PH1 0.023 ppm
F1H1 11.25 Hz
F2PMCM 0.50640 ppm/cm
F2H1CM 253.21539 Hz/cm
F1PMCM 0.74585 ppm/cm
F1H1CM 372.94458 Hz/cm

Optical rotation measurement

Model : P-1020 (A060460638)

No.	Sample	Mode	Data	Monitor Blank	Temp. Cell Temp Point	Date Comment Sample Name	Light Filter Operator	Cycle Time Integ Time
No.1	6 (1/3)	Sp.Rot	4.7710	0.0026 0.0000	23.7 50.00 Cell	Tue Oct 20 13:36:42 2009 0.00109g/mlMeOH DZP8	Na 589nm	2 sec 10 sec
No.2	6 (2/3)	Sp.Rot	4.0370	0.0022 0.0000	23.7 50.00 Cell	Tue Oct 20 13:36:55 2009 0.00109g/mlMeOH DZP8	Na 589nm	2 sec 10 sec
No.3	6 (3/3)	Sp.Rot	4.2200	0.0023 0.0000	23.6 50.00 Cell	Tue Oct 20 13:37:08 2009 0.00109g/mlMeOH DZP8	Na 589nm	2 sec 10 sec

+4.3427°



文件名: DZP8

DZP8

创建于: 14:24 09-10-19
数据: 原始

样品浓度: 0.0780毫克/毫升
溶剂: 甲醇

测量模式: Abs.
扫描速度: 中速
狭缝: 2.0
采样间隔: 0.2

否.	波长 (nm.)	Abs.
1	318.40	3.2265
2	303.60	3.4753
3	290.80	2.7634
4	211.60	2.7731

56

(峰谷 309)

Sample : DZP8	Frequency Range : 399.271 - 3996.57	Measured on : 21/10/2009
Technique : KBr压片	Resolution : 4	Instrument : Tensor27
Customer : 091021IR	Zerofilling : 2	Acquisition : Double Sided, For
		Sample Scans : 16

