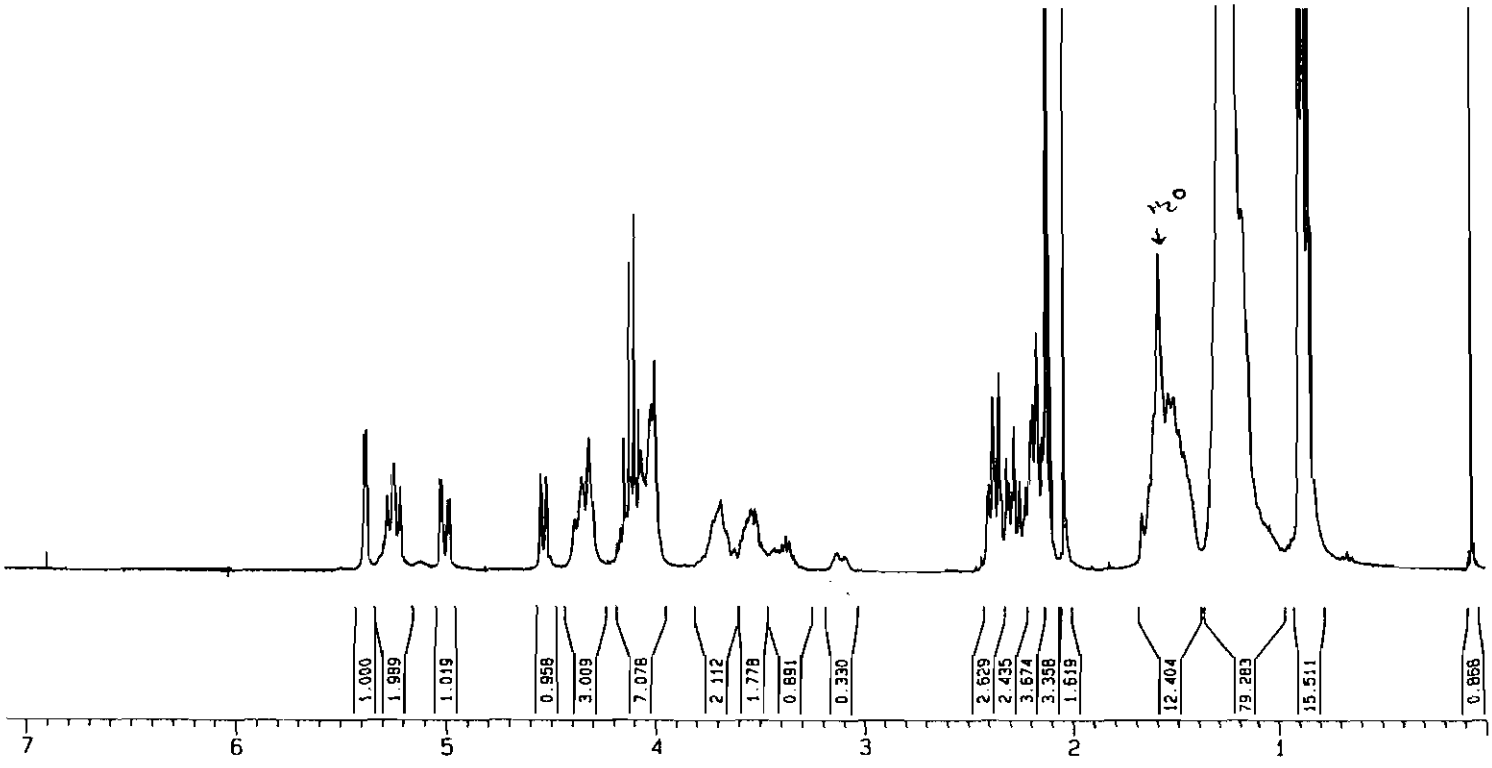
Appendix A

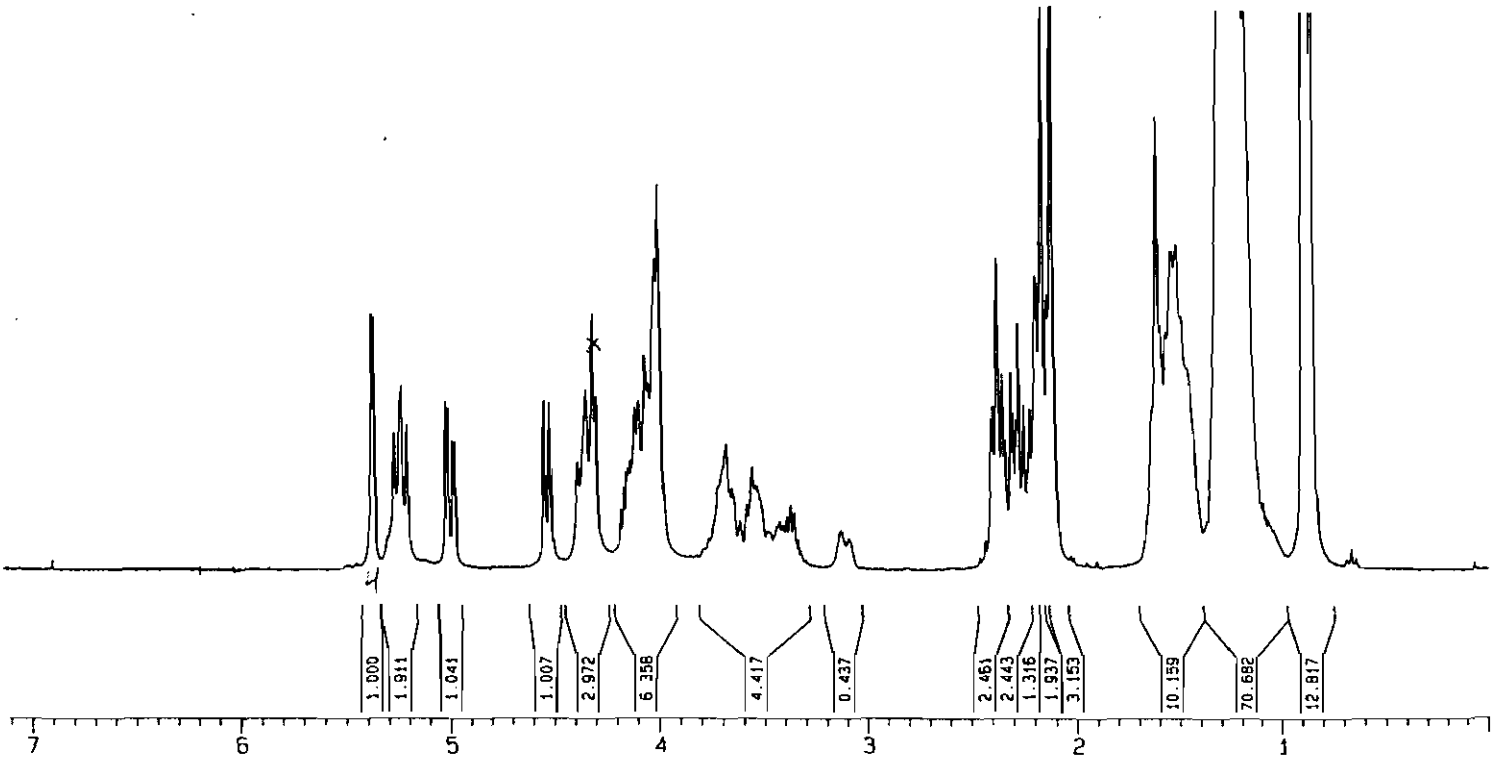
Azide substitution 1 – Raw data ^{1}H-NMR

Reaction a

Small scale

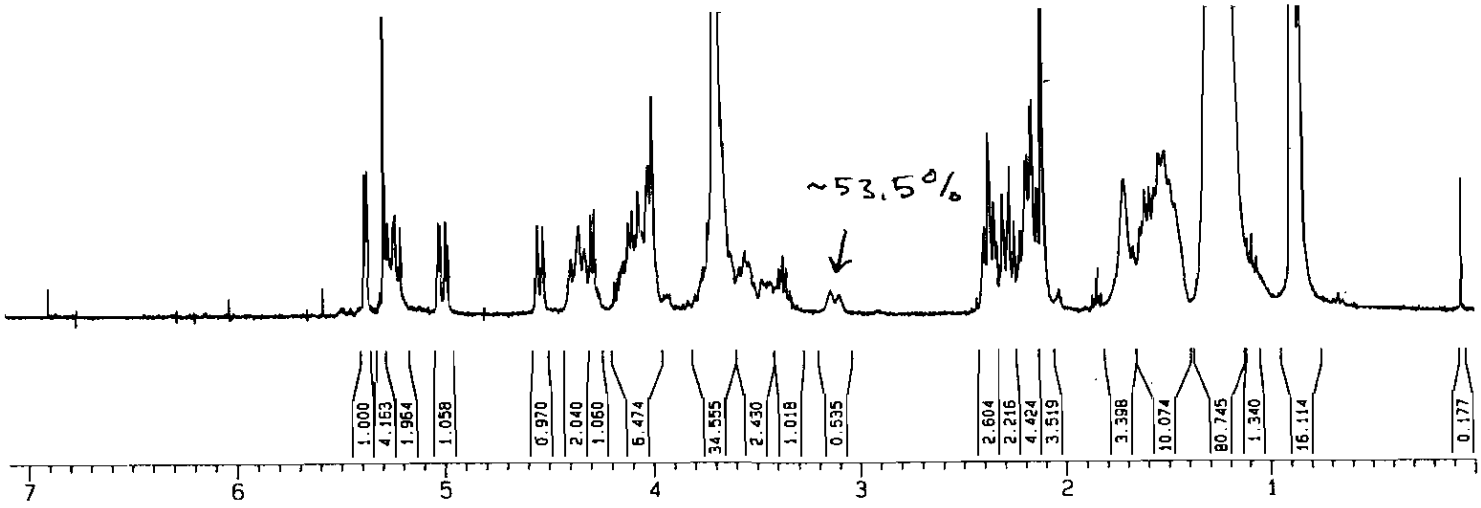


Large scale

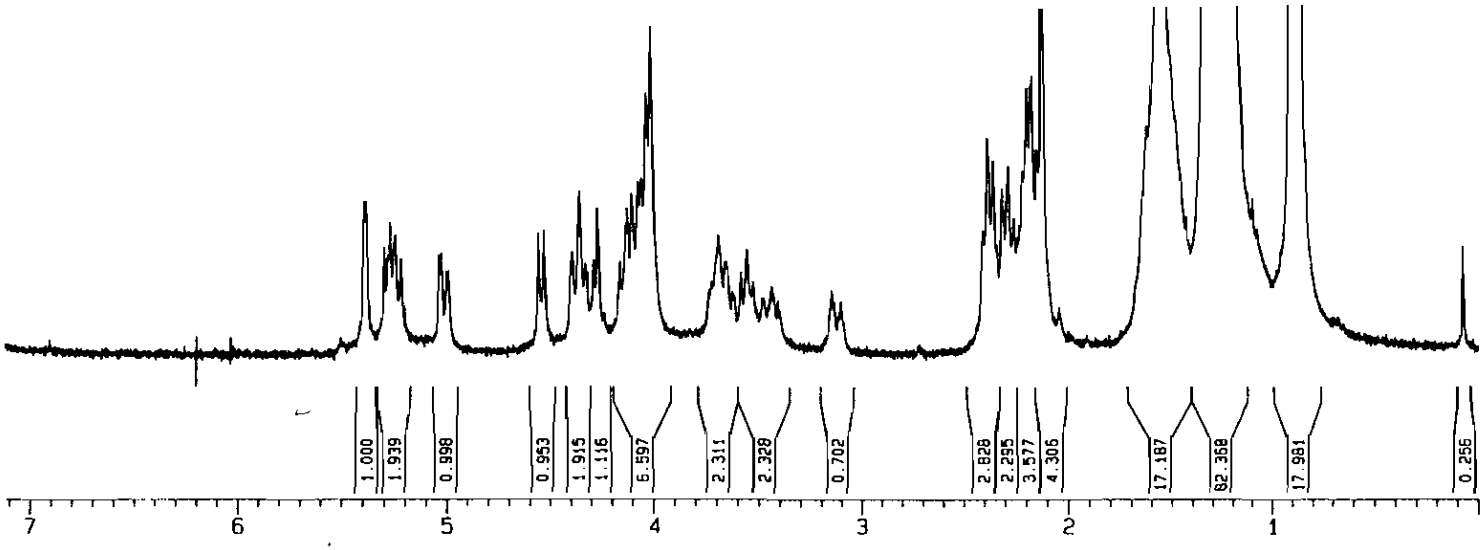


Reaction b

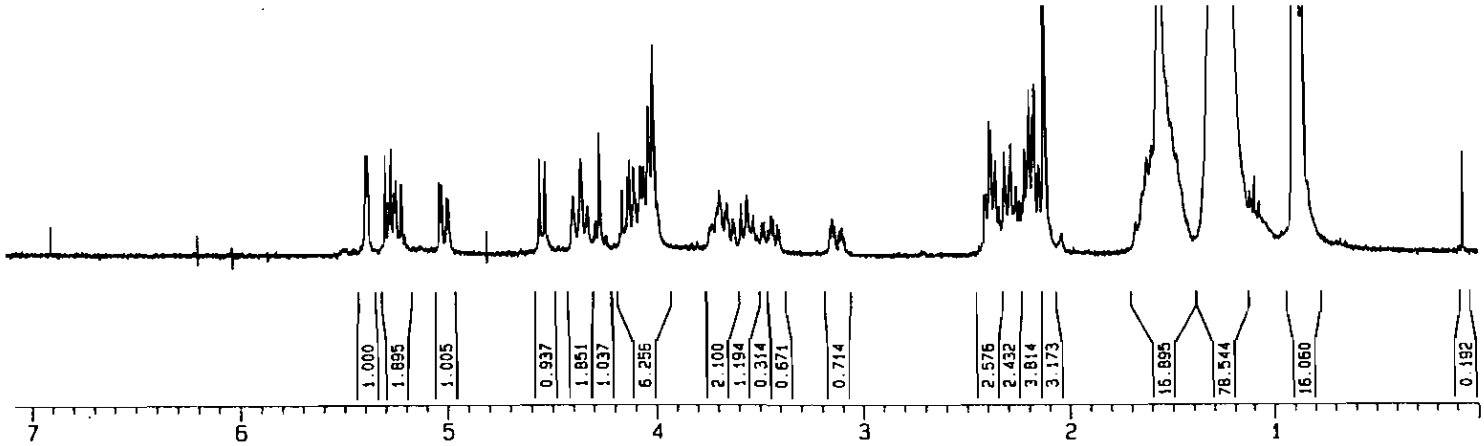
Measure 1



Measure 2

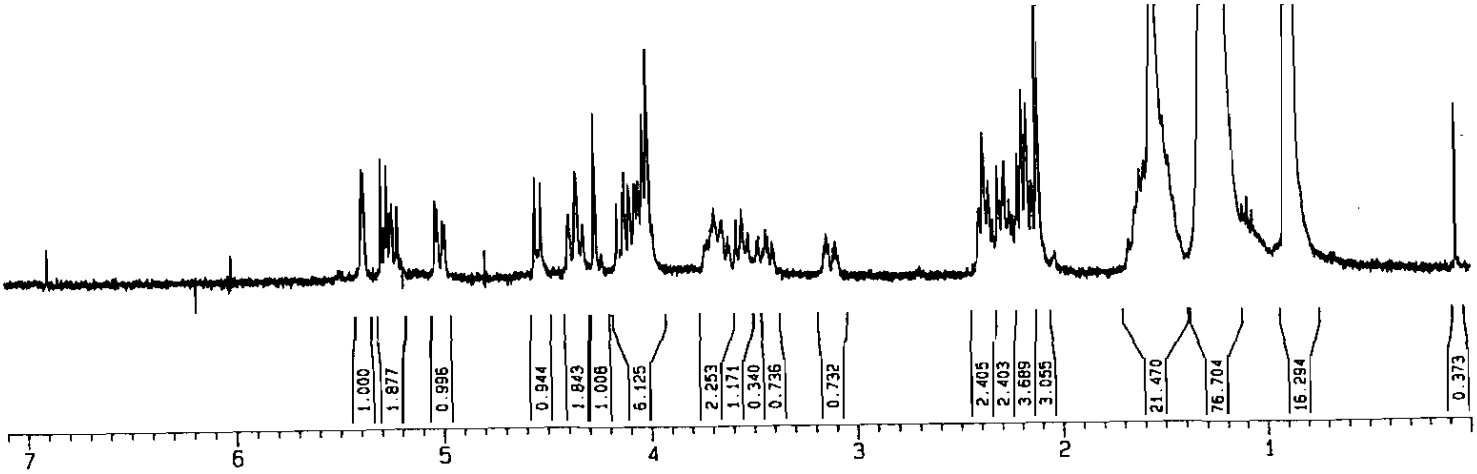


Measure 3

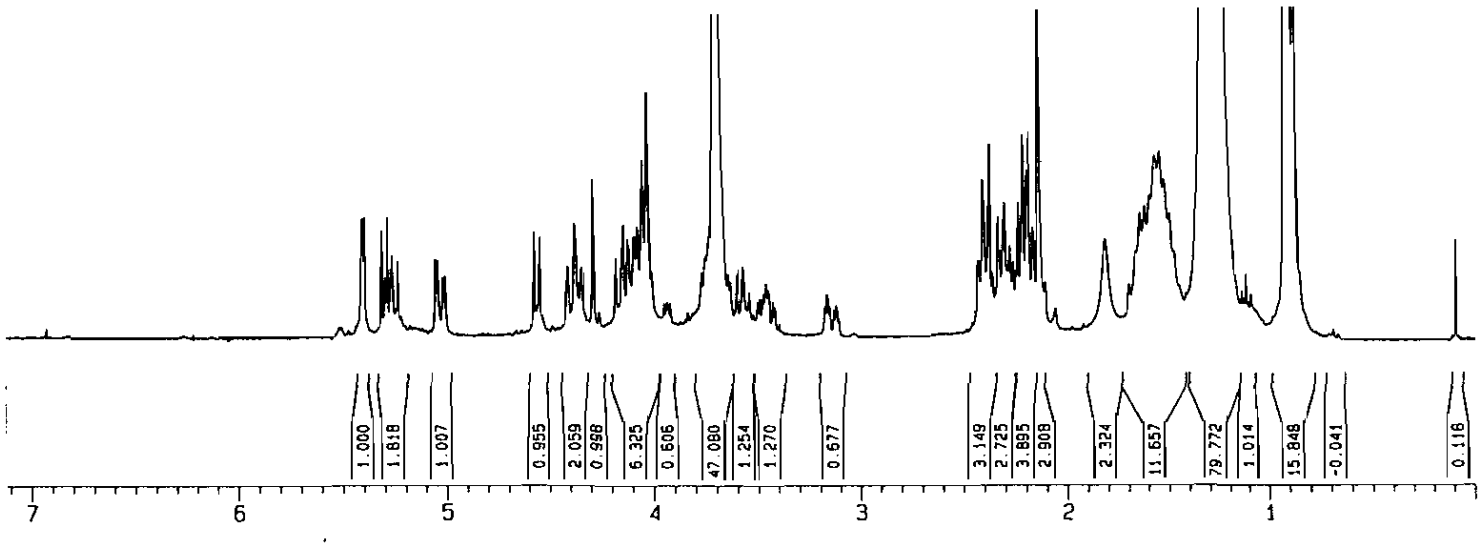


Reaction b

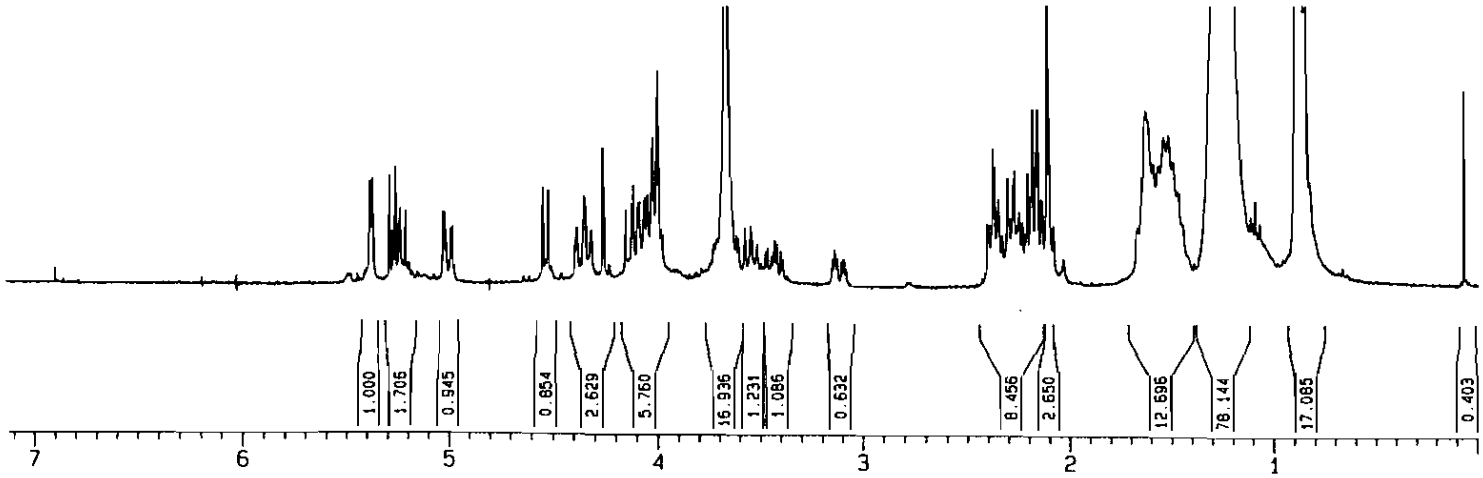
Measure 4



Measure 5

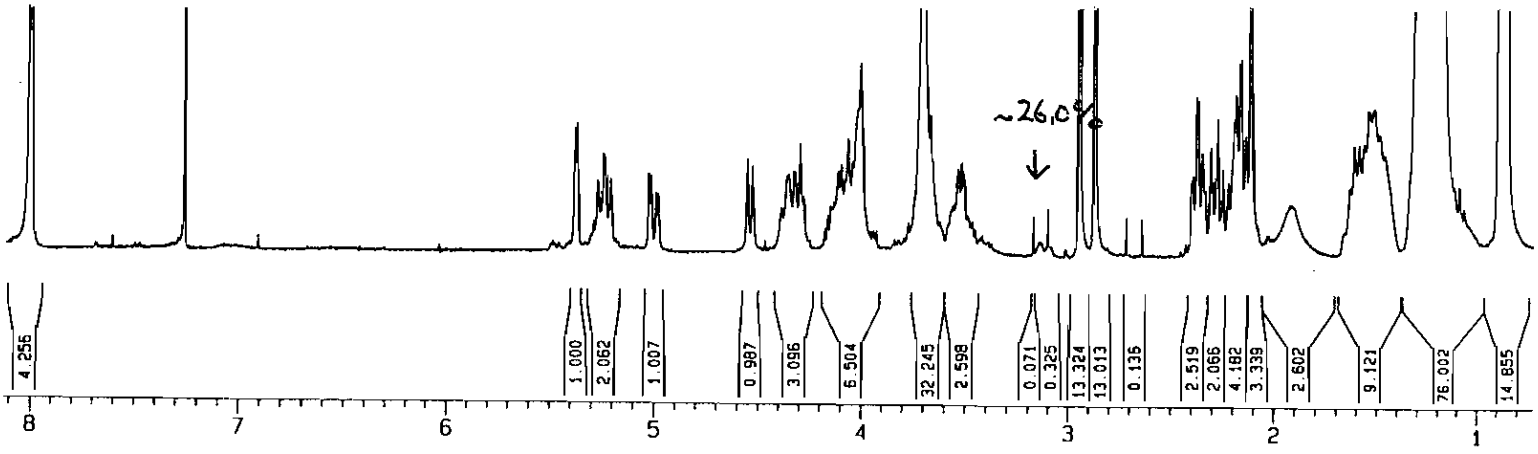


Measure 6

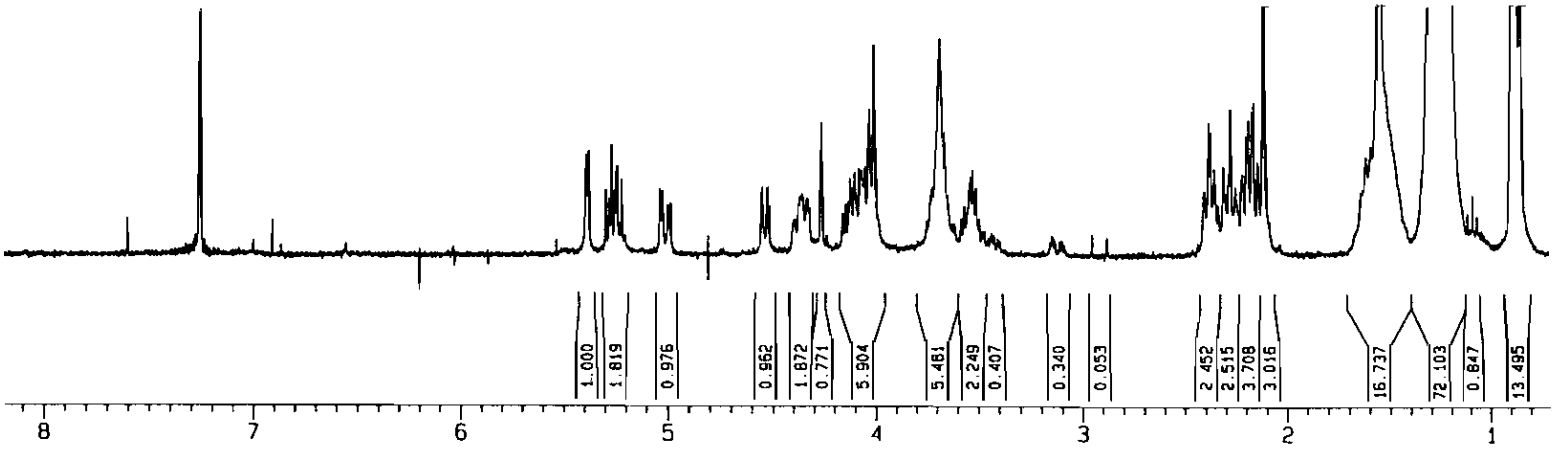


Reaction c

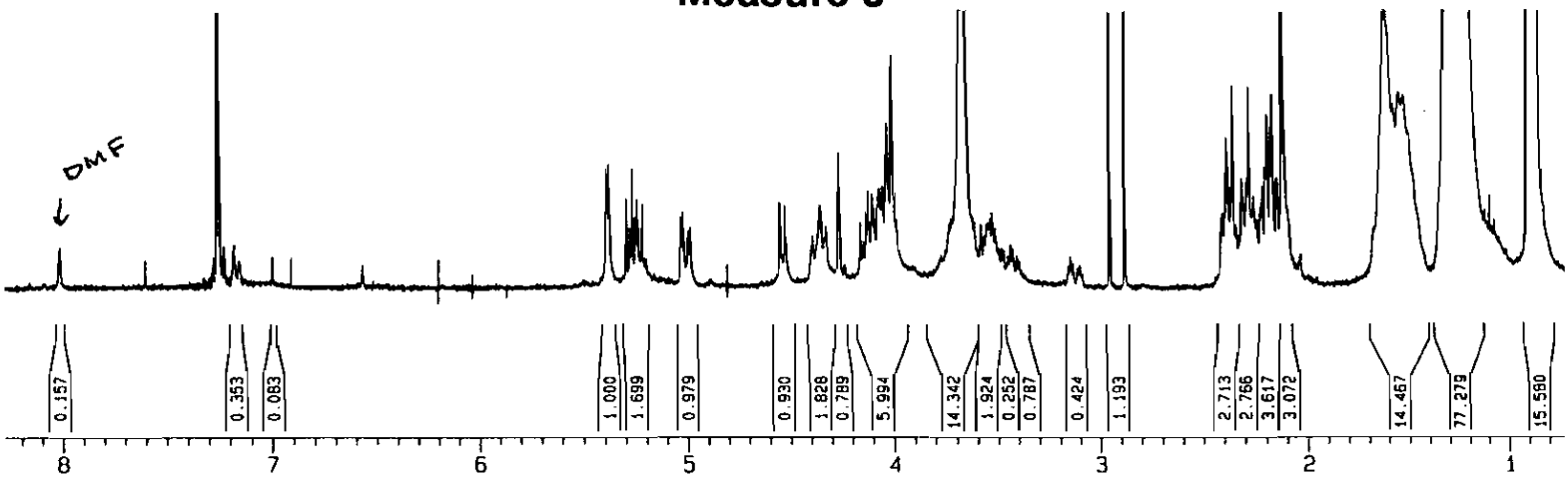
Measure 1



Measure 2

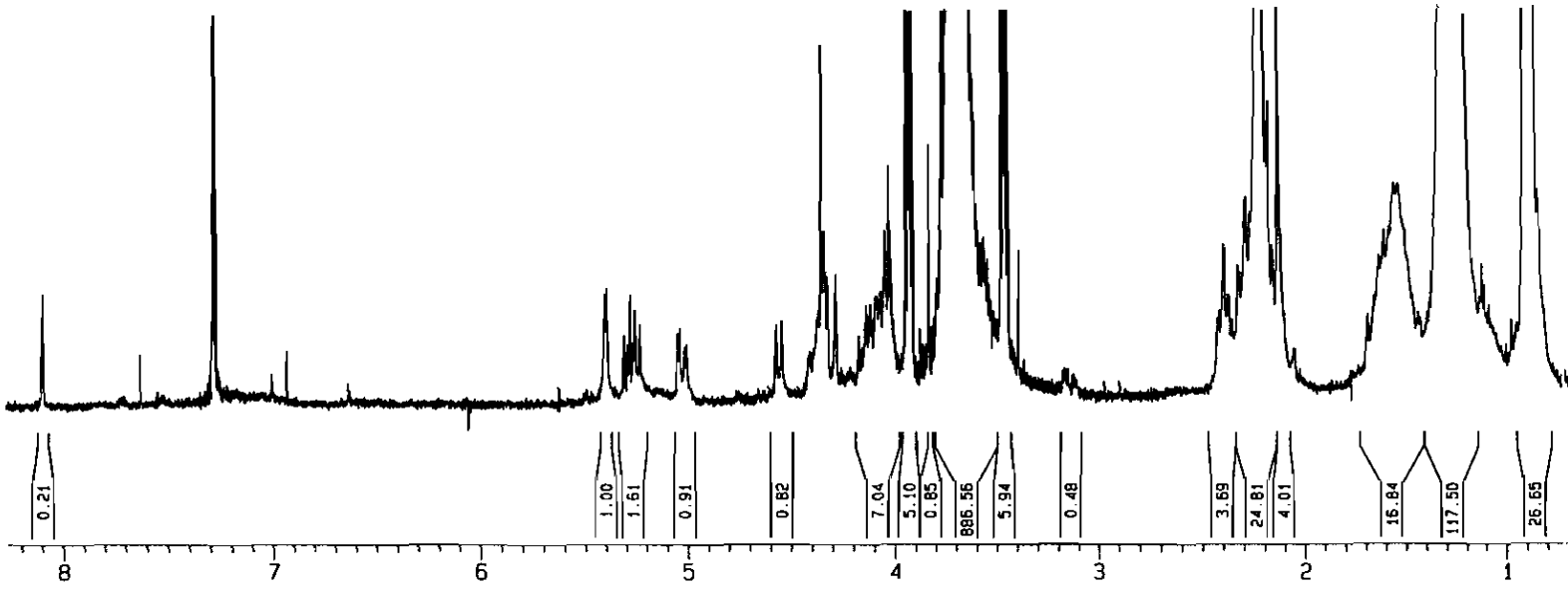


Measure 3

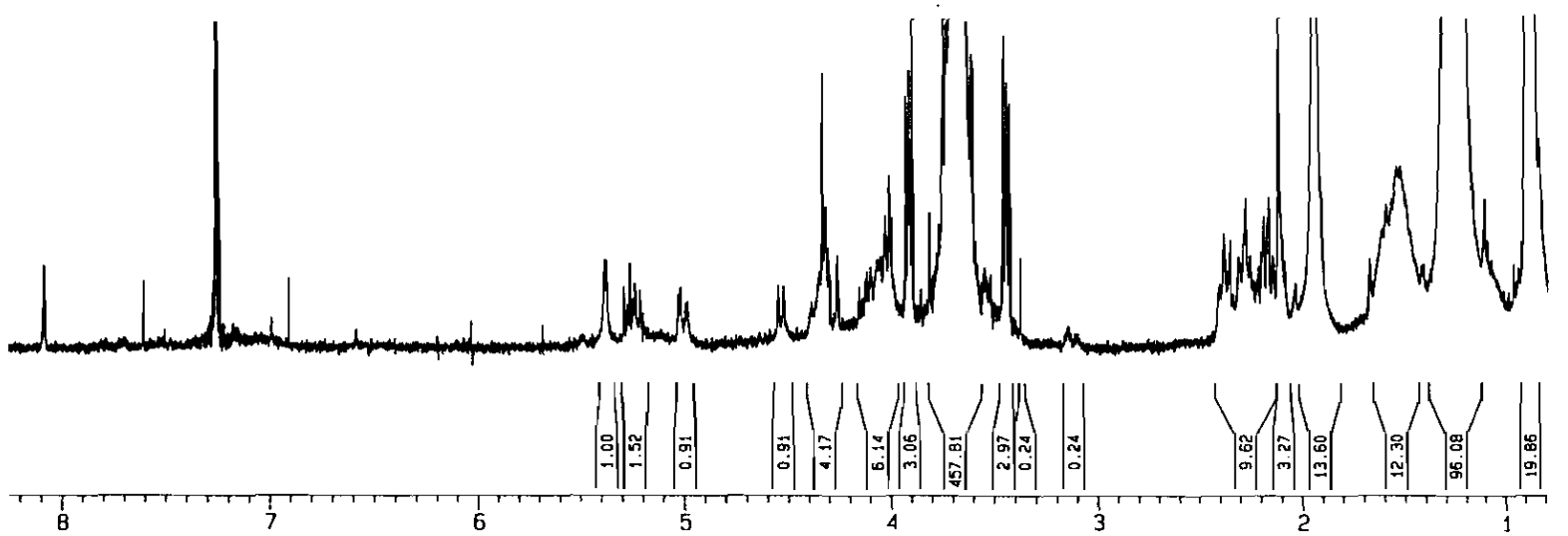


Reaction c

Measure 4



Measure 5



Appendix B

HPLC separation

	NAME	CHAN	LEV	REP	TYPE	DIRECTORY		TIME	DATE
COLLECTION DATA	14194053	A	1	1	Orig	C:\GOLD\SYS1DATA\ANDERS\	INJECTION	19:40:53	14 SEP 1980
METHOD	GRADIENT					C:\GOLD\SYS1METH\WILSE\	ANALYSIS	20:16:20	14 SEP 1980
							REPORT	20:16:59	14 SEP 1980

20010308

SAMPLE TABLE none
SYSTEM 1: SYSTEM1

Chart Speed 1.00 cm/min

Analyst pso
Comments 10,71
C-18 column, acetonitril:water
0-25%15 min; 25-30% 60min; 30-100% 15 min
254 nm
Preparativ column

Type	Sample Name	Sample Amount	Int Std Amount	Scale Factor	Nr. Inj	Vial Nr.	Inject Vol uL	
Unk	14194053			1.00000	1 / 1			(from File)

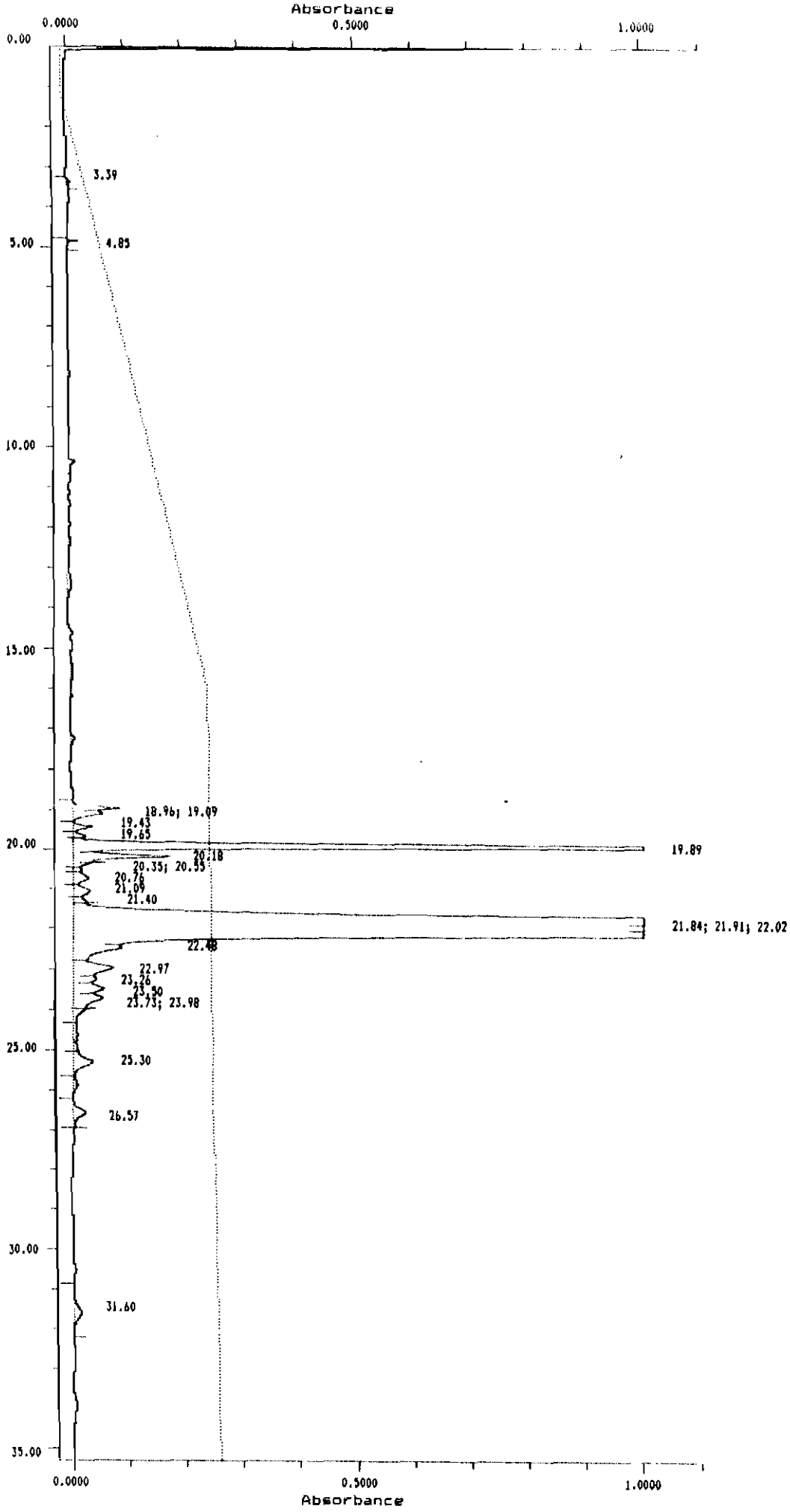
Flow 5.000>5.000:0.00
%B 0.000>.0000:0.00
Solvent A 3
Solvent B 1

Status Parameters
Pressure A 1.438
Pressure B 0.000
#

Elapsed Time: 000.0
A:Absorb,AU .7385
A:Wavlnth,nm 254
A:Lamp ON

Peak Number	Retention Time	Peak Area	Peak Height	Area Percent	Height Percent
1	3.394	0.85287	0.00627	0.063	0.072
2	4.853	0.60424	0.01653	0.045	0.190
3	18.964	8.39733	0.08350	0.623	0.959
4	19.092	6.99785	0.05274	0.518	0.606
5	19.428	3.64207	0.03286	0.270	0.377
6	19.648	2.47724	0.02284	0.184	0.263
7	19.887	195.63246	1.95229	14.504	22.424
8	20.184	22.68134	0.16858	1.681	1.937
9	20.350	2.80395	0.03552	0.208	0.408
10	20.546	1.63226	0.01520	0.121	0.174
11	20.757	6.13867	0.02752	0.455	0.316
12	21.091	6.58018	0.02906	0.488	0.334
13	21.400	3.18804	0.02361	0.236	0.271
14	21.840	412.25412	1.95226	30.564	22.425
15	21.910	276.27487	1.95154	20.482	22.416
16	22.017	307.66806	1.94977	22.810	22.395
17	22.477	18.80173	0.08407	1.394	0.966
18	22.975	18.17910	0.06868	1.348	0.789
19	23.259	7.02704	0.04044	0.521	0.464
20	23.498	10.82178	0.05270	0.802	0.606
21	23.735	13.18058	0.05136	0.977	0.590
22	23.983	3.56553	0.02113	0.264	0.242
23	25.297	9.01308	0.03333	0.669	0.383
24	26.568	5.28584	0.02158	0.391	0.248
25	31.605	5.14629	0.01262	0.382	0.145
TOTALS		1348.84651	8.70599	100.000	100.000

Average Efficiency: 0


Absorbance
0.0000
0.5000
1.0000
0.00
3.39
5.00
4.85
10.00
15.00
18.96; 19.09
19.43
19.65
20.00
19.89
20.18
20.35; 20.55
20.76
21.09
21.40
21.84; 21.91; 22.02
22.48
22.97
23.26
23.50
23.73; 23.98
25.00
25.30
26.57
30.00
31.60
35.00
0.0000
0.5000
1.0000
Absorbance

Appendix C

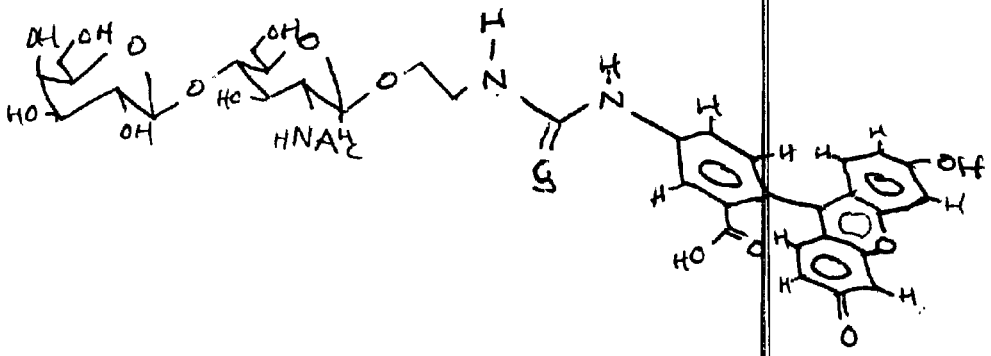
^{1}H-NMR & COSY spectra

Current Data Parameters
NAME TA77_6-7
EXPNO 1
PROCNO 1

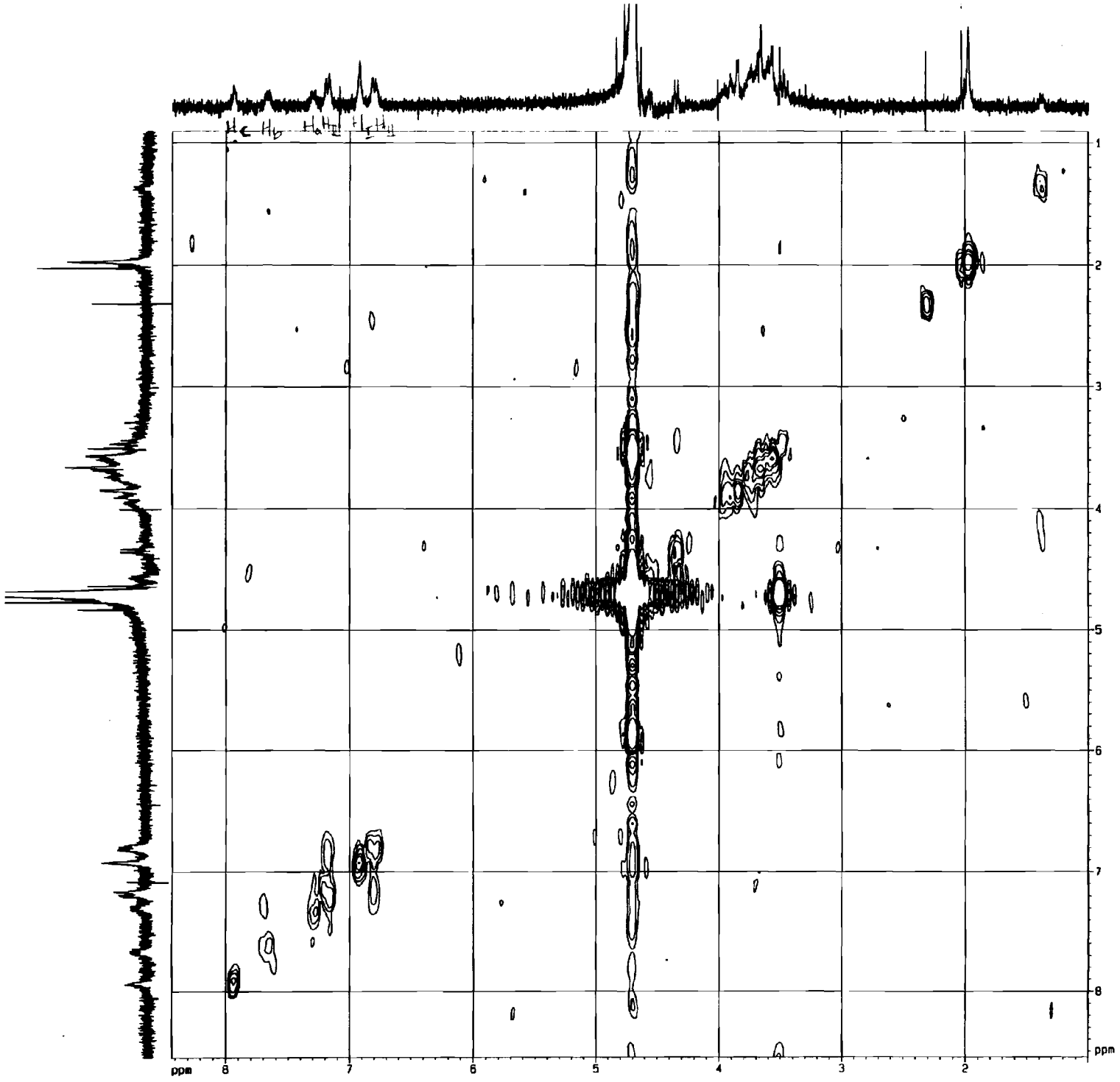
F2 - Acquisition Parameters
Date_ 20010309
Time 16.19
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 43748
SOLVENT 020
NS 256
DS 1
SWH 6250.000 Hz
FIDRES 0.142864 Hz
AQ 3.4998901 sec
RG 128
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H

F2 - Processing parameters
SI 32768
SF 300.1341261 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.34 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16079 Hz/cm



C-1



GSCOSY

Current Data Parameters

NAME	TA77_6-7
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20010309
Time	16.23
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygs
TD	1024
SOLVENT	D2O
NS	1
DS	16
SWH	6250.000 Hz
FIDRES	6.103516 Hz
AQ	0.0819700 sec
RG	2048
DW	80.000 usec
DE	114.29 usec
TE	300.0 K
P16	2000.00 usec
L21	100
D1	1.50000000 sec
P1	10.00 usec
D0	0.0000030 sec
D27	0.0000180 sec
D16	0.00010000 sec
P0	10.00 usec
D13	0.0000040 sec
SFO1	300.1351790 MHz
NUCLEUS	1H
INO	0.00016000 sec

F1 - Acquisition parameters

NDO	1
TD	128
SFO1	300.1352 MHz
FIDRES	48.828125 Hz
SW	20.824 ppm

F2 - Processing parameters

SI	2048
SF	300.1341261 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

F1 - Processing parameters

SI	256
MC2	QF
SF	300.1341261 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	16.50 cm
CX1	16.50 cm
F2PLO	8.429 ppm
F2LO	2529.86 Hz
F2PHI	0.996 ppm
F2HI	299.03 Hz
F1PLO	8.551 ppm
F1LO	2566.48 Hz
F1PHI	0.905 ppm
F1HI	271.56 Hz
F2PPMCM	0.45047 ppm/cm
F2HZCM	135.20212 Hz/cm
F1PPMCM	0.46341 ppm/cm
F1HZCM	139.08618 Hz/cm

C-2

C-3

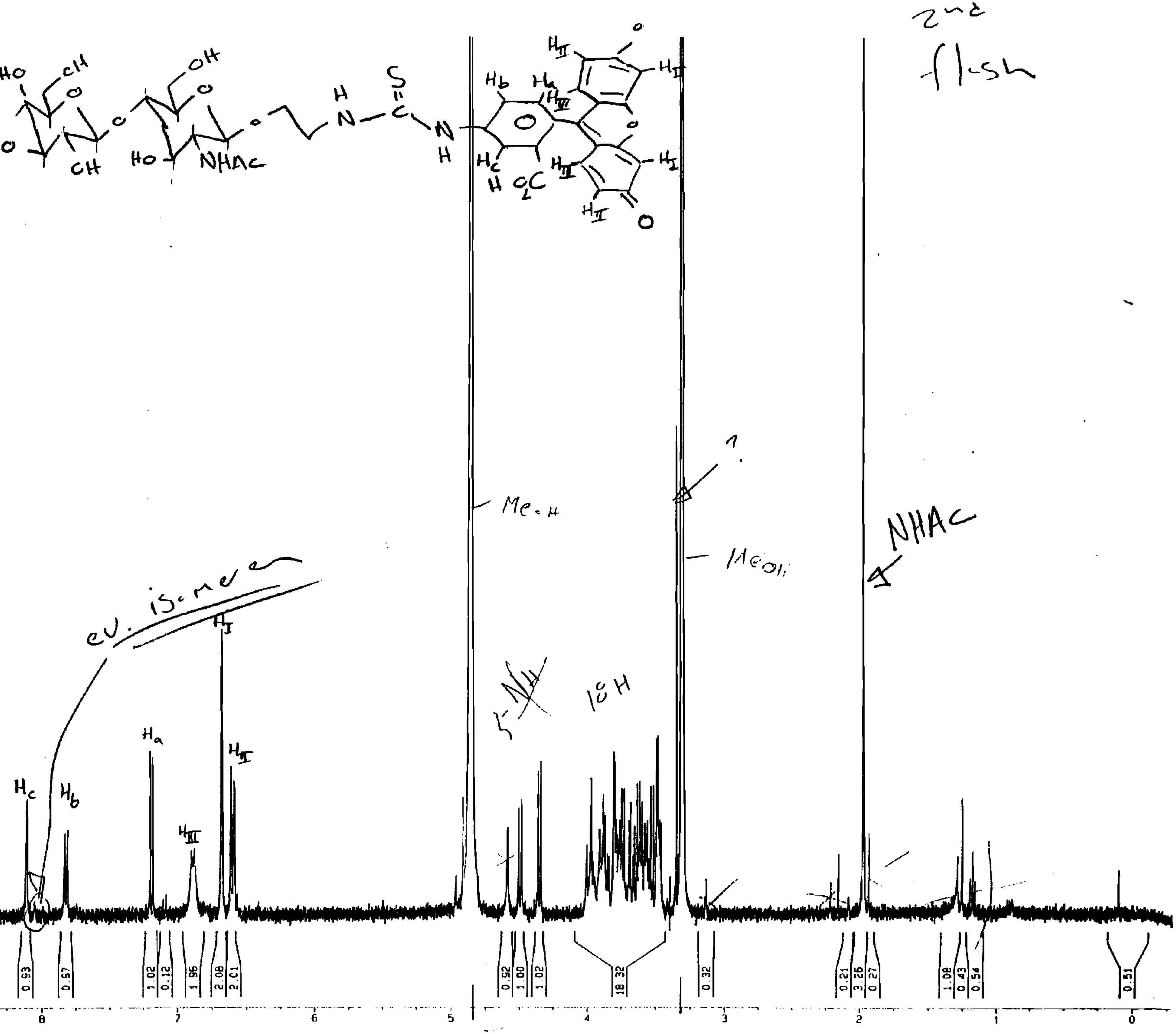
Current Data Parameters
NAME psa10.291IIa
EXPNO 1
PROCNO 1

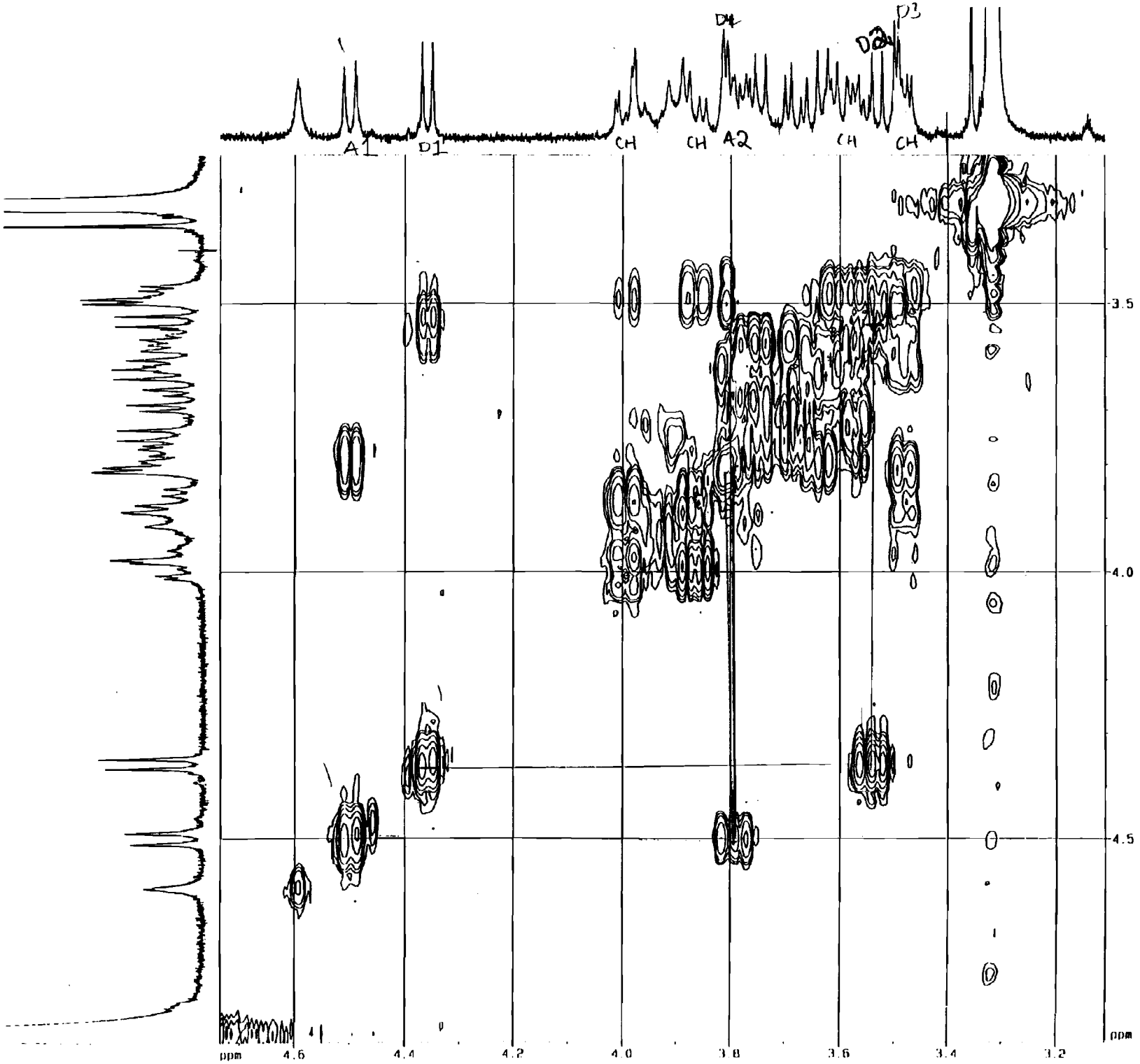
F2 - Acquisition Parameters
Date_ 20000607
Time 9.22
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 43288
SOLVENT MeOH
NS 64
DS 0
SWH 5411.255 Hz
FIDRES 0.125006 Hz
AQ 3.9998612 sec
RG 128
DW 92.400 usec
DE 10.50 usec
TE 300.0 K
D1 0.00100000 sec

============ CHANNEL f1 ============
NUC1 1H
P1 10.50 usec
PL1 -3.00 dB
SFO1 400.1326008 MHz

F2 - Processing parameters
SI 65536
SF 400.1300084 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 4001.30 Hz
F2P -0.283 ppm
F2 -113.20 Hz
PPMCM 0.38085 ppm/cm
HZCM 152.38895 Hz/cm





COSY grad sel

Current Data Parameters

NAME	gcs10.29111a
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20080607
Time	9.27
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygp
TD	2048
SOLVENT	MeOH
NS	1
DS	16
SWH	3472.222 Hz
FIDRES	1.695421 Hz
AQ	0.2949620 sec
RG	512
DW	144.000 usec
DE	10.50 usec
TE	300.0 K
d0	0.00000300 sec
D1	2.00000000 sec
d13	0.00000300 sec
D16	0.00010000 sec
IN0	0.00028800 sec

CHANNEL f1

NUC1	1H
P0	10.50 usec
P1	10.50 usec
PL1	-3.00 dB
SFO1	400.1317000 MHz

GRADIENT CHANNEL

GPNAM1	sine.100
GPNAM2	sine.100
GPZ1	0.00 %
GPZ2	0.00 %
GPY1	0.00 %
GPY2	0.00 %
GPZ1	10.00 %
GPZ2	10.00 %
P16	2000.00 usec

F1 - Acquisition parameters

ND0	1
TD	256
SFO1	400.1317 MHz
FIDRES	13.563358 Hz
SW	8.670 ppm

F2 - Processing parameters

SI	2048
SF	400.1300084 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

F1 - Processing parameters

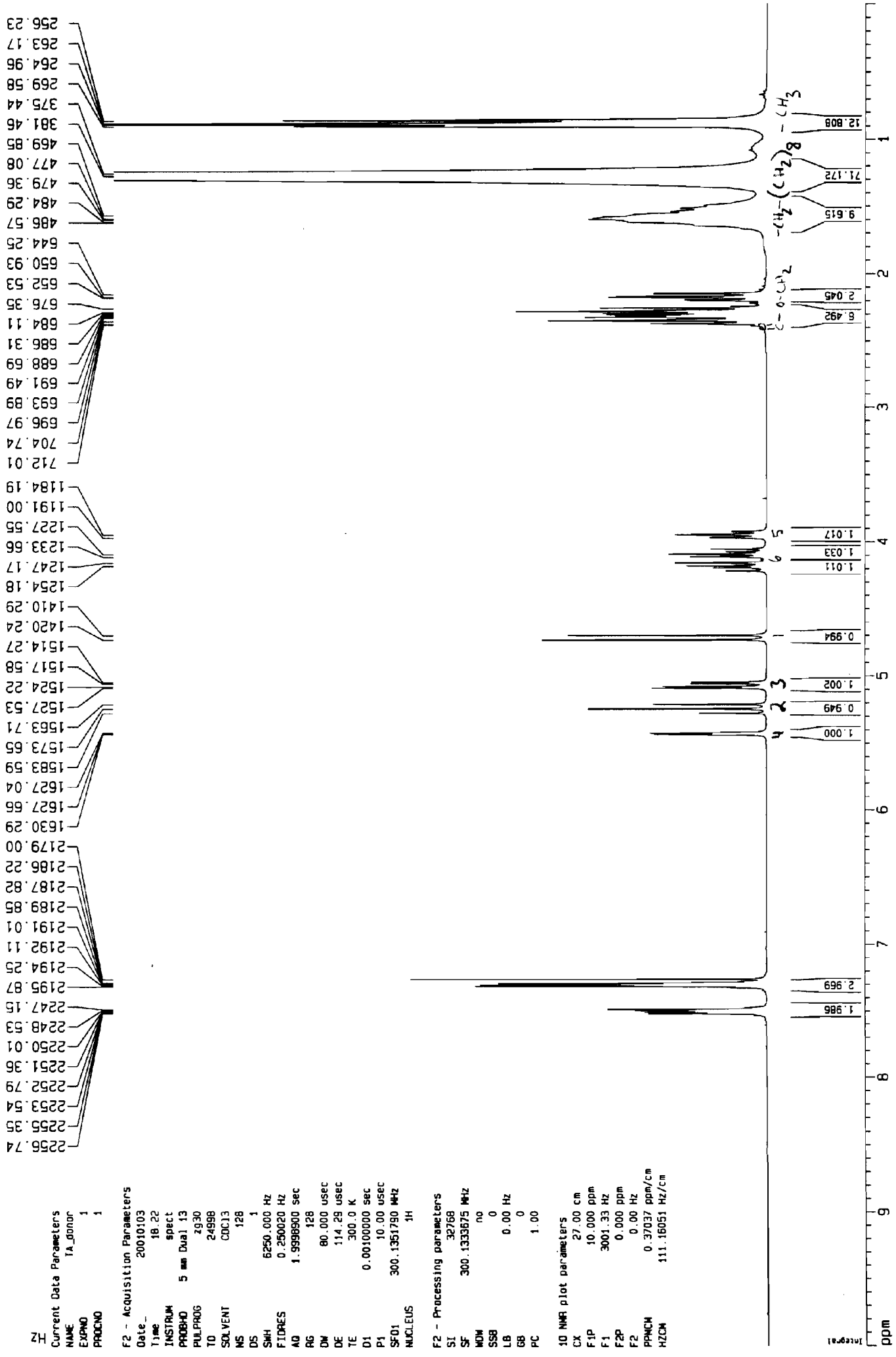
SI	512
MC2	QF
SF	400.1300084 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

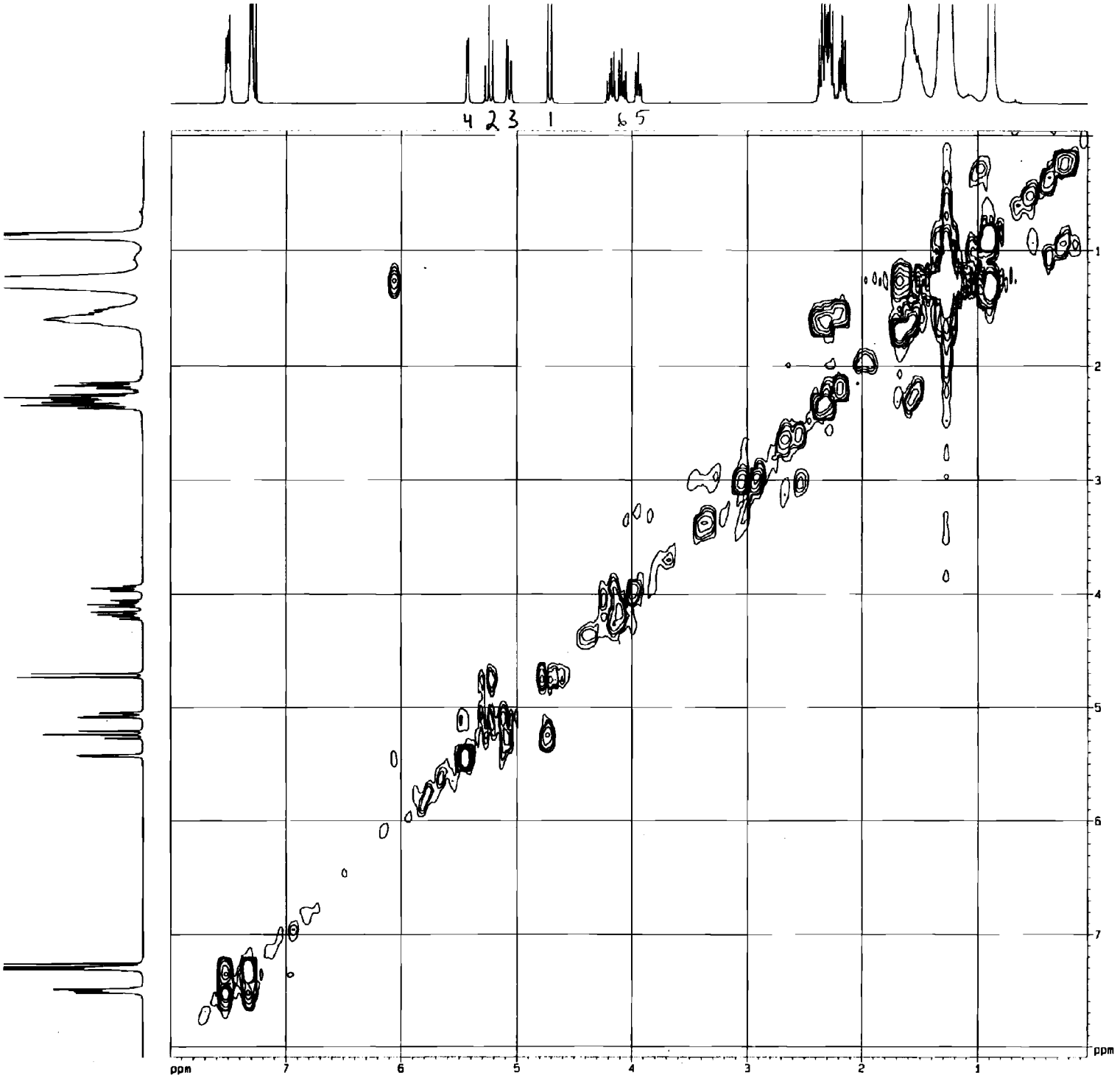
2D NMR plot parameters

CX2	10.50 cm
CX1	10.50 cm
F2PPM	4.738 ppm
F2HZ	1895.04 Hz
F2PPM	3.109 ppm
F2HZ	1243.55 Hz
F1PPM	4.869 ppm
F1HZ	1956.87 Hz
F1PPM	3.228 ppm
F1HZ	1291.47 Hz
F2PPMCM	0.09861 ppm/cm
F2HZCM	39.45787 Hz/cm
F1PPMCM	0.10067 ppm/cm
F1HZCM	40.27909 Hz/cm

C-4

C-5


Current Data Parameters
NAME TA_donor
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010103
Time 18.22
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 24998
SOLVENT CDCl3
NS 128
DS 1
SWH 6250.000 Hz
FIDRES 0.250020 Hz
AQ 1.9998900 sec
RG 128
DW 80.000 usec
DE 114.28 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H
F2 - Processing parameters
SI 32768
SF 300.1333675 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.33 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16051 Hz/cm
Hz
ppm
Integral
12.808
71.172
9.615
2.045
8.492
1.017
1.033
1.011
0.994
1.002
0.949
1.000
2.969
1.986
1
2
3
4
5
6
$-(CH_2)_8-CH_3$
$-(CH_2)_2-O-CH_2$



GSCOSY

Current Data Parameters

NAME	TA_donor
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20010103
Time	18.24
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygs
TD	1024
SOLVENT	CDCl3
NS	2
DS	16
SWH	6250.000 Hz
FIDRES	6.103516 Hz
AQ	0.0819700 sec
RG	2048
DW	80.000 usec
DE	114.29 usec
TE	300.0 K
P16	2000.00 usec
L21	100
D1	1.50000000 sec
P1	10.00 usec
D0	0.0000030 sec
D27	0.0000180 sec
D16	0.00010000 sec
P0	10.00 usec
D13	0.0000040 sec
SFO1	300.1351790 MHz
NUCLEUS	1H
INO	0.00016000 sec

F1 - Acquisition parameters

NDO	1
TD	128
SFO1	300.1352 MHz
FIDRES	48.828125 Hz
SW	20.824 ppm

F2 - Processing parameters

SI	2048
SF	300.1333603 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

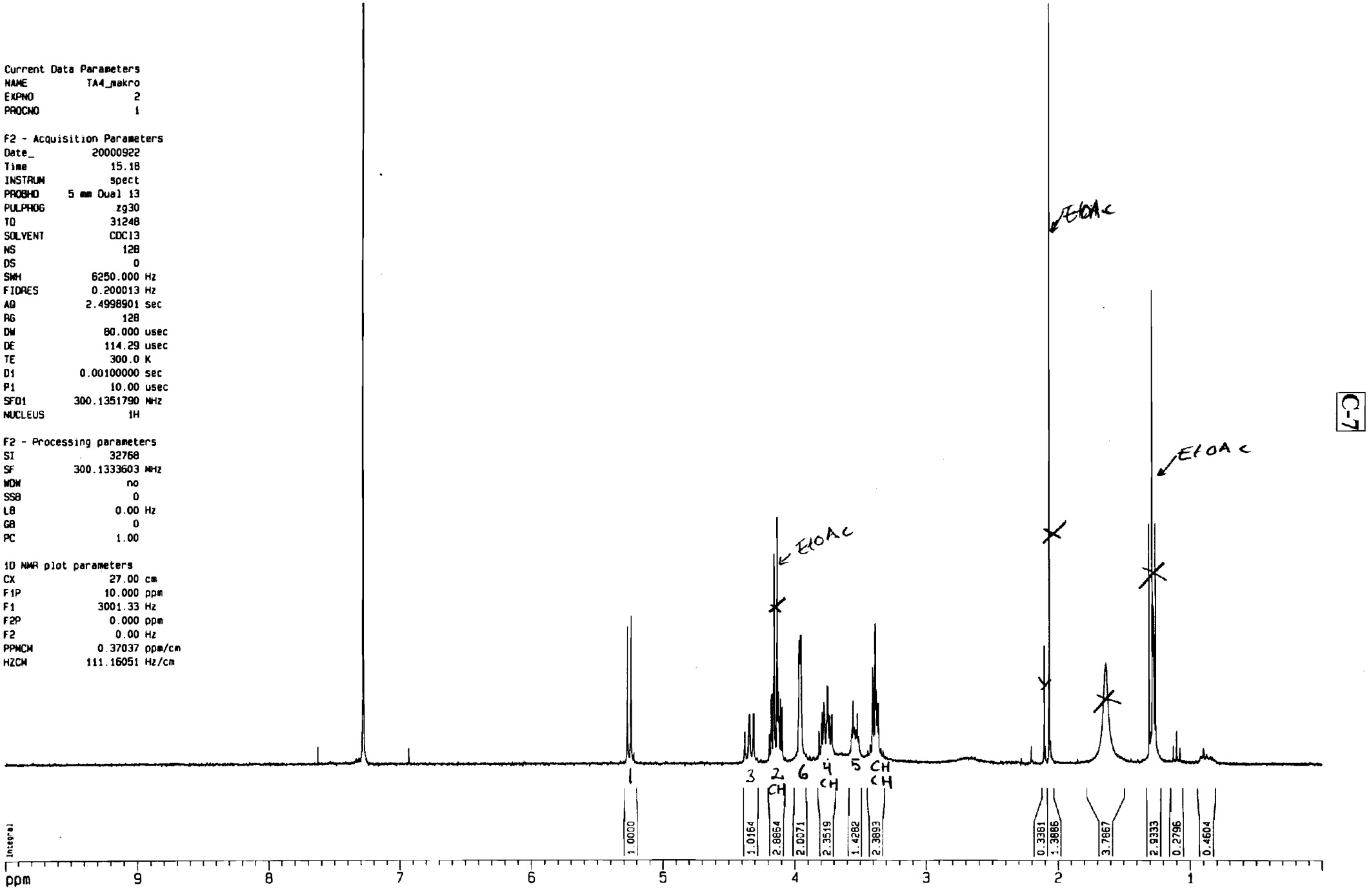
F1 - Processing parameters

SI	256
MC2	QF
SF	300.1333603 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

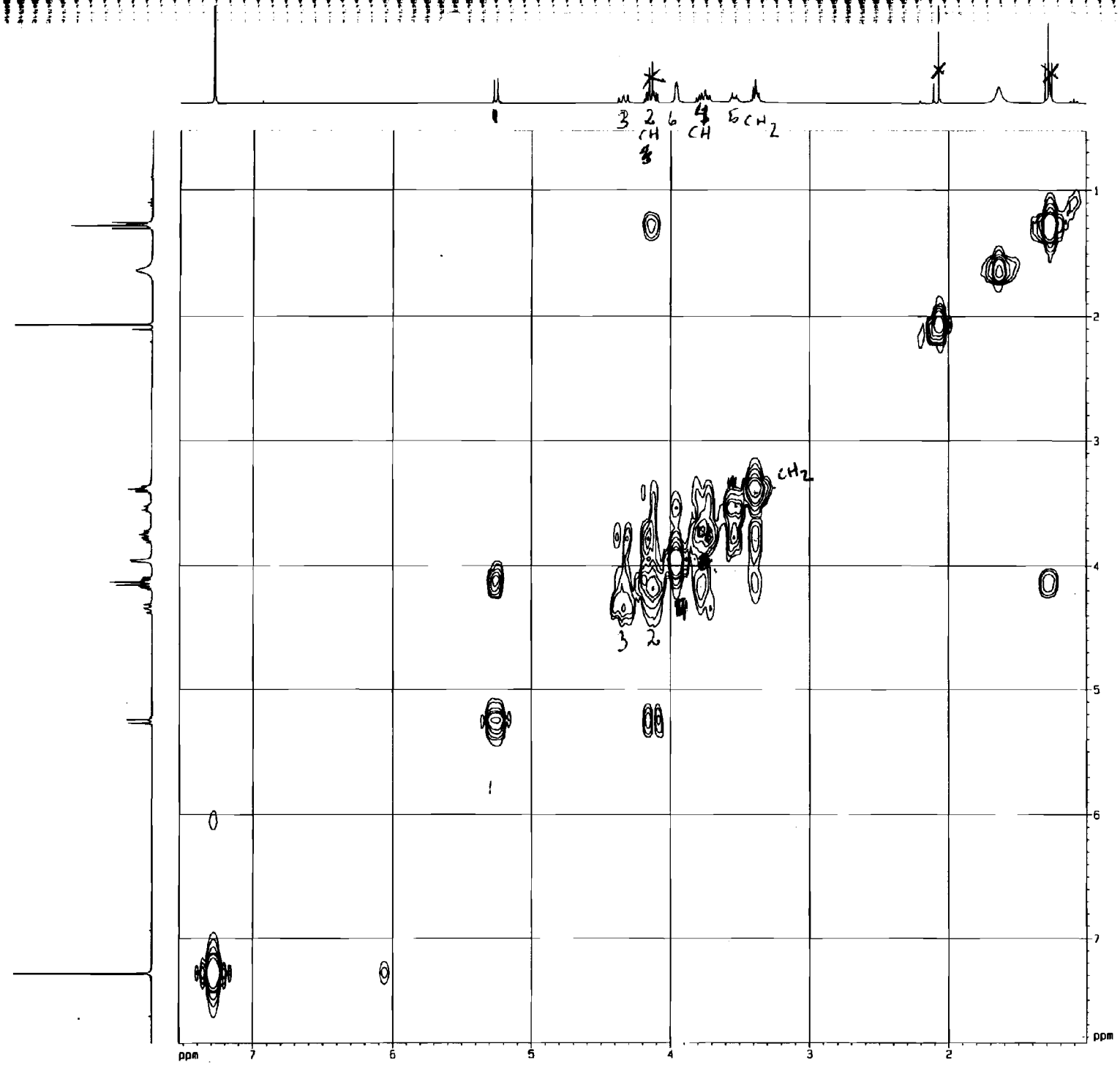
2D NMR plot parameters

CX2	16.50 cm
CX1	16.50 cm
F2PLO	7.991 ppm
F2LO	2398.50 Hz
F2PHI	0.040 ppm
F2HI	12.03 Hz
F1PLO	8.093 ppm
F1LO	2429.02 Hz
F1PHI	-0.041 ppm
F1HI	-12.38 Hz
F2PPMCM	0.48190 ppm/cm
F2HZCM	144.63481 Hz/cm
F1PPMCM	0.49299 ppm/cm
F1HZCM	147.96400 Hz/cm

C-6


Current Data Parameters
NAME TA4_makro
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20000922
Time 15.18
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 31248
SOLVENT CDCl3
NS 128
DS 0
SWH 6250.000 Hz
FIDRES 0.200013 Hz
AQ 2.4998901 sec
RG 128
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H
F2 - Processing parameters
SI 32768
SF 300.1333603 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.33 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16051 Hz/cm
EtOAc
EtOAc
EtOAc
1
3
2 CH
6
4 CH
5 CH
CH
Integral
1.0000
1.0164
2.8864
2.0071
2.3519
1.4282
2.3893
0.3381
1.3886
3.7667
2.9333
0.2796
0.4604
ppm
9
8
7
6
5
4
3
2
1

C-7



Current Data Parameters

NAME	TA4_makro
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date_	20000922
Time	15.20
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygs
TD	1024
SOLVENT	CDCl3
NS	1
DS	16
SWH	6250.000 Hz
FIDRES	6.103516 Hz
AQ	0.0819700 sec
RG	2048
DW	80.000 usec
DE	114.29 usec
TE	300.0 K
P16	2000.00 usec
L21	100
D1	1.50000000 sec
P1	10.00 usec
D0	0.0000030 sec
D27	0.0000180 sec
D16	0.00010000 sec
P0	10.00 usec
D13	0.0000040 sec
SFO1	300.1351790 MHz
NUCLEUS	1H
INO	0.00016000 sec

F1 - Acquisition parameters

NDO	1
TO	128
SFO1	300.1352 MHz
FIDRES	48.828125 Hz
SW	20.824 ppm

F2 - Processing parameters

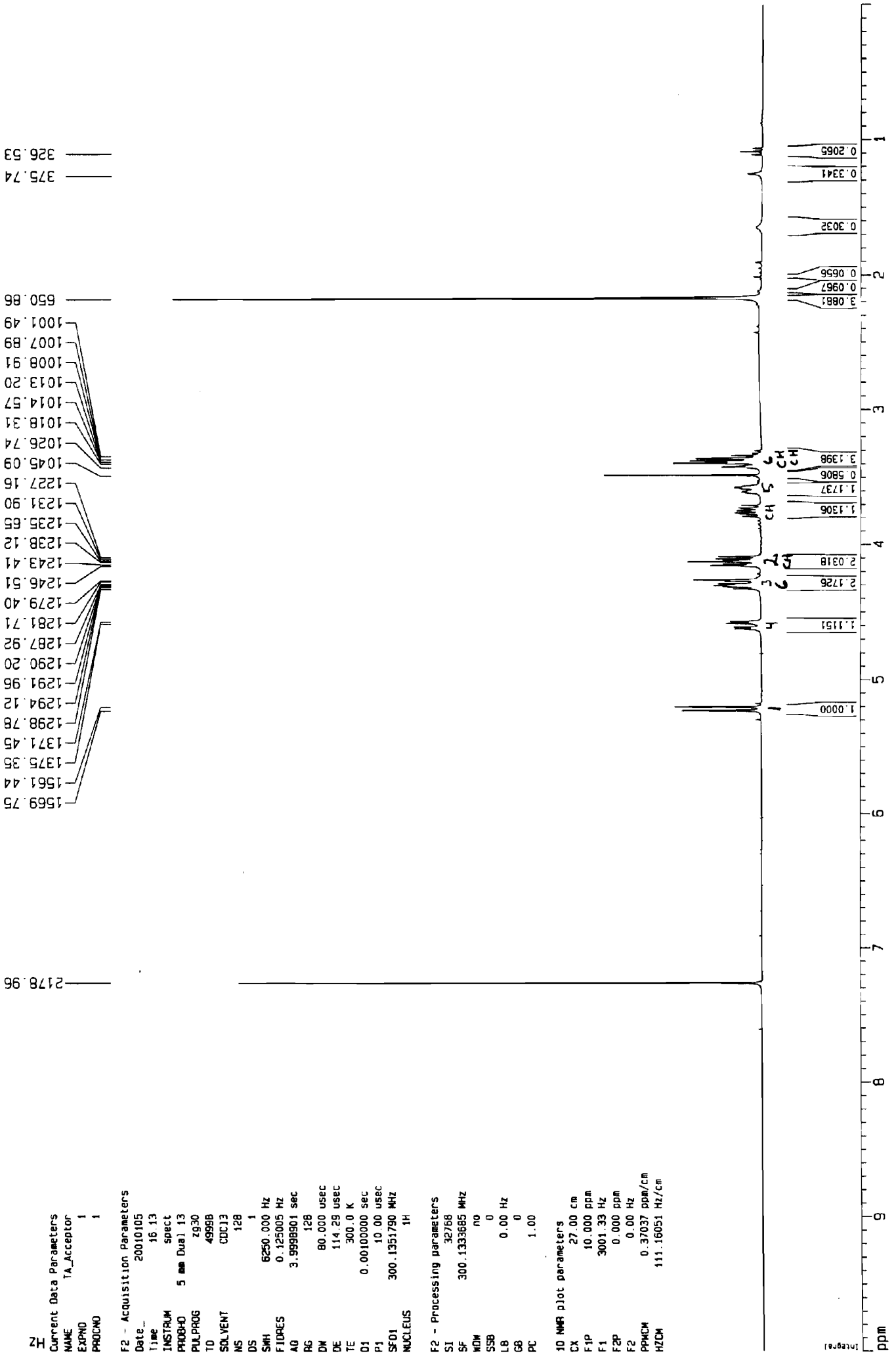
SI	2048
SF	300.1333603 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

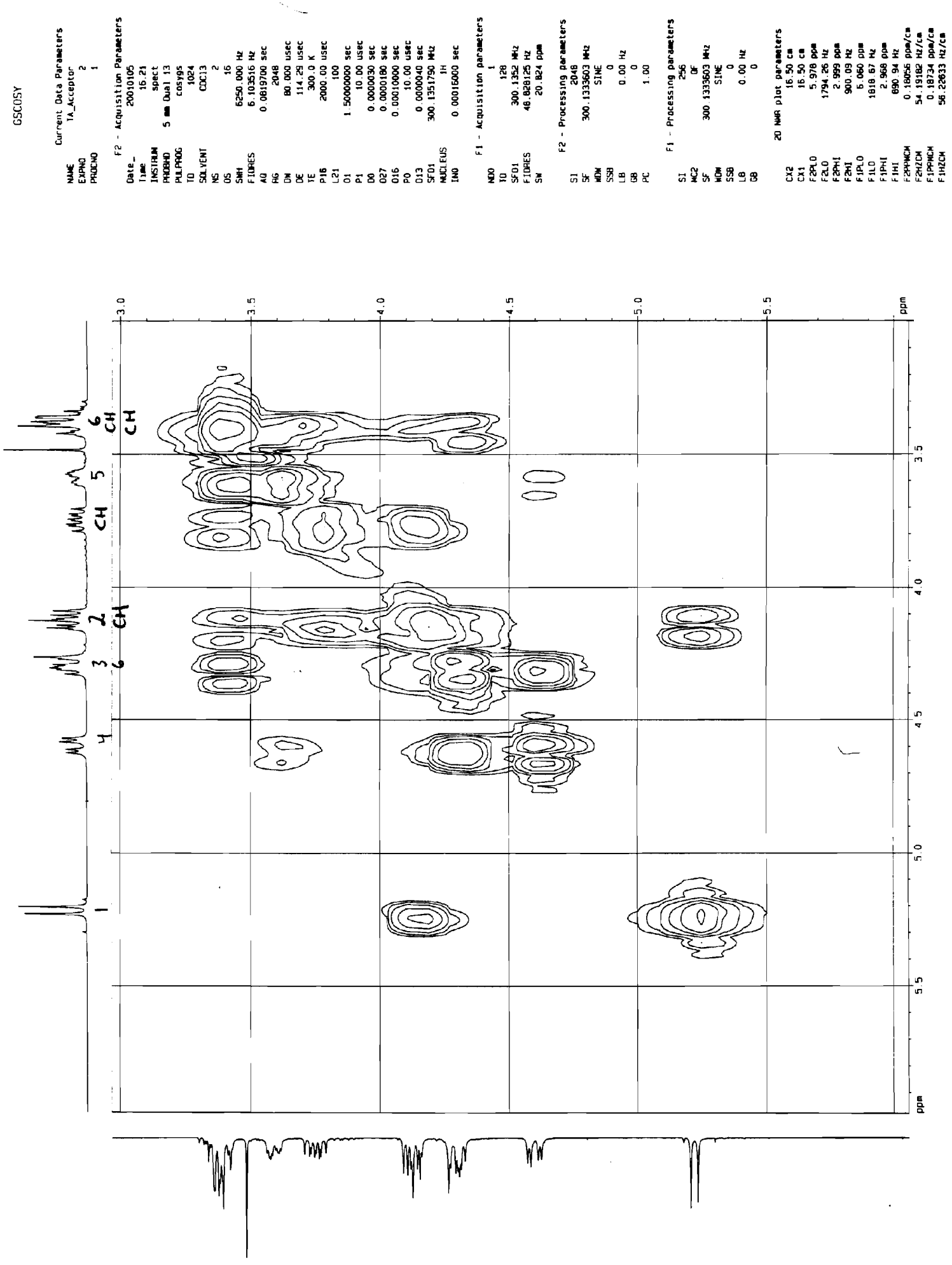
F1 - Processing parameters

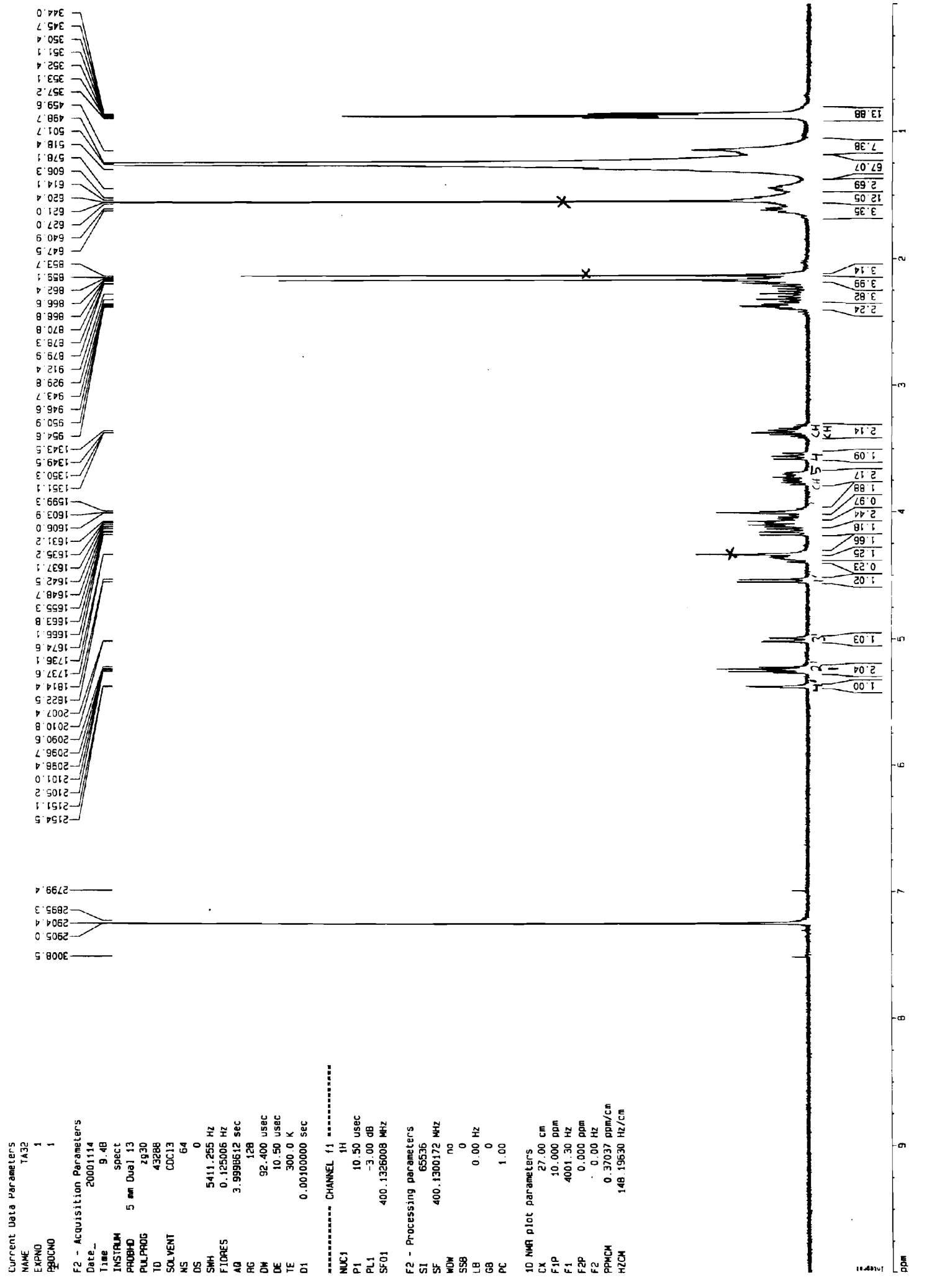
SI	256
MC2	QF
SF	300.1333603 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

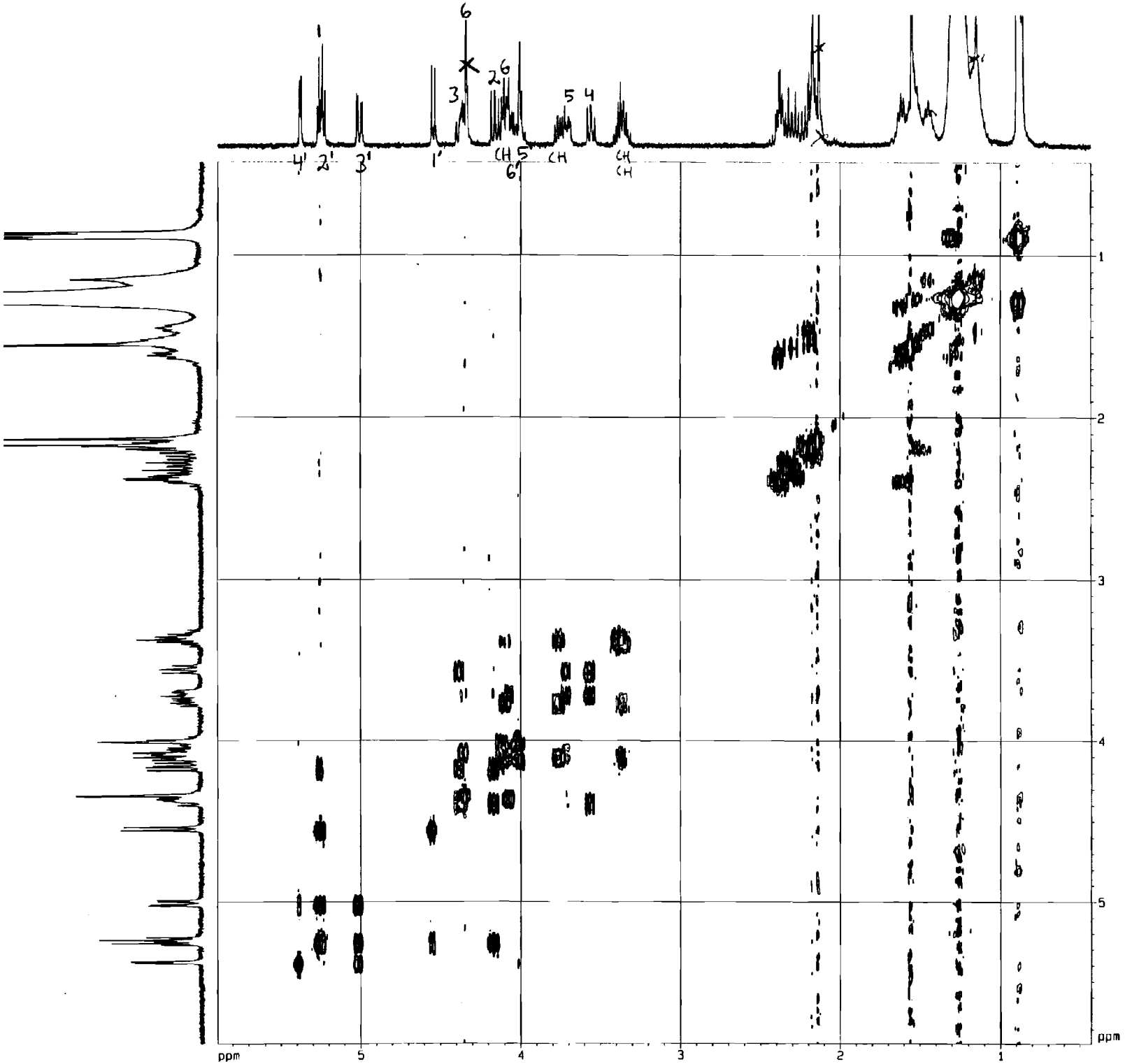
2D NMR plot parameters

CX2	16.50 cm
CX1	16.50 cm
F2PLO	7.534 ppm
F2LO	2261.18 Hz
F2PHI	1.016 ppm
F2HI	305.00 Hz
F1PLO	7.849 ppm
F1LO	2355.78 Hz
F1PHI	0.528 ppm
F1HI	158.51 Hz
F2PPMCM	0.39501 ppm/cm
F2HZCM	118.55616 Hz/cm
F1PPMCM	0.44369 ppm/cm
F1HZCM	133.16762 Hz/cm


HZ
Current Data Parameters
NAME TA_Acceptor
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010105
Time 16.13
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 49998
SOLVENT CDCl3
NS 128
DS 1
SWH 6250.000 Hz
FIDRES 0.125005 Hz
AQ 3.9998901 sec
RG 128
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H
F2 - Processing parameters
SI 32768
SF 300.1333685 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.33 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16051 Hz/cm
2178.96
650.86
375.74
326.53
1569.75
1561.44
1375.35
1371.45
1298.78
1294.12
1291.96
1290.20
1287.92
1281.71
1279.40
1246.51
1243.41
1238.12
1235.65
1231.90
1227.16
1045.09
1026.74
1018.31
1014.57
1013.20
1008.91
1007.89
1001.49
1.0000
1.1151
2.1726
2.0318
1.1306
1.1737
0.5806
3.1398
3.0883
0.0967
0.0656
0.3032
0.3341
0.2065
ppm
Integral


GSCOSY
Current Data Parameters
NAME 1A_Acceptor
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010105
Time 16.21
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG cosygs
TD 1024
SOLVENT CDCl3
NS 2
DS 16
SWH 6250.000 Hz
FIDRES 6.103516 Hz
AQ 0.0819700 sec
RG 2048
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
P16 2000.00 usec
L21 100
D1 1.50000000 sec
P1 10.00 usec
D0 0.0000030 sec
D27 0.0000180 sec
D16 0.00010000 sec
P0 10.00 usec
D13 0.0000040 sec
SFO1 300.1351790 MHz
NUCLEUS 1H
INO 0.00016000 sec
F1 - Acquisition parameters
NDO 1
TD 128
SFO1 300.1352 MHz
FIDRES 46.828125 Hz
SW 20.824 ppm
F2 - Processing parameters
SI 2048
SF 300.1333603 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
F1 - Processing parameters
SI 256
MC2 QF
SF 300.1333603 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
2D NMR plot parameters
CX2 16.50 cm
CX1 16.50 cm
F2PLO 5.978 ppm
F2LO 1794.26 Hz
F2PHI 2.999 ppm
F2HI 900.09 Hz
F1PLO 5.060 ppm
F1LO 1818.67 Hz
F1PHI 2.968 ppm
F1HI 890.94 Hz
F2PPMCM 0.18056 ppm/cm
F2HZCM 54.19182 Hz/cm
F1PPMCM 0.18734 ppm/cm
F1HZCM 56.22633 Hz/cm
3.0
3.5
4.0
4.5
5.0
5.5
ppm
1
2
3
4
5
6
CH
CH
CH
CH


Current Data Parameters
NAME TA32
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20001114
Time 9.48
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 43288
SOLVENT CDCl3
NS 64
DS 0
SWH 5411.255 Hz
FIDRES 0.125006 Hz
AQ 3.9998612 sec
RG 128
DW 92.400 usec
DE 10.50 usec
TE 300.0 K
D1 0.00100000 sec
CHANNEL f1
NUC1 1H
P1 10.50 usec
PL1 -3.00 dB
SFO1 400.1326008 MHz
F2 - Processing parameters
SI 65536
SF 400.1300172 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 4001.30 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 148.19530 Hz/cm
13.88
7.38
67.07
2.69
12.05
3.35
3.14
3.99
3.82
2.24
2.14
1.09
2.17
1.88
0.97
2.44
1.18
1.66
1.25
0.23
1.02
1.03
2.04
1.00
ppm



COSY grad sel

Current Data Parameters

NAME	TA32
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20001114
Time	9 52
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygp
TD	2048
SOLVENT	CDCl3
NS	1
DS	16
SWH	2185.315 Hz
FIDRES	1.067048 Hz
AQ	0.4586324 sec
RG	512
DW	228.800 usec
DE	10.50 usec
TE	300.0 K
d0	0.00000300 sec
D1	2.00000000 sec
d13	0.00000300 sec
D16	0.00010000 sec
IN0	0.00045760 sec

CHANNEL f1

NUC1	1H
P0	10.50 usec
P1	10.50 usec
PL1	-3.00 dB
SFO1	400.1312760 MHz

GRADIENT CHANNEL

GPNAM1	sine.100
GPNAM2	sine.100
GPX1	0.00 %
GPX2	0.00 %
GPY1	0.00 %
GPY2	0.00 %
GPZ1	10.00 %
GPZ2	10.00 %
P16	2000.00 usec

F1 - Acquisition parameters

ND0	1
TD	144
SFO1	400.1313 MHz
FIDRES	15.175797 Hz
SW	5.461 ppm

F2 - Processing parameters

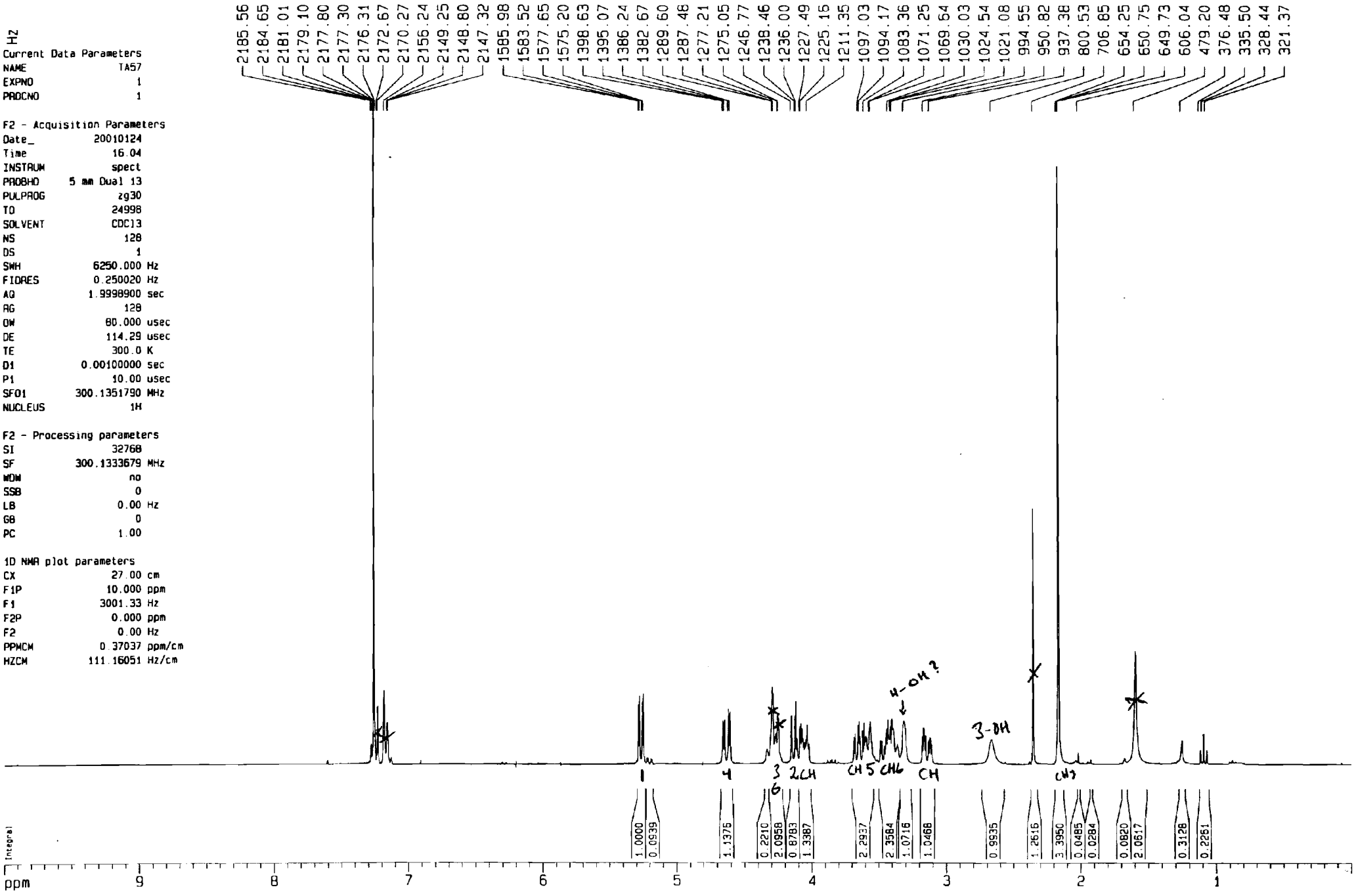
SI	2048
SF	400.1300114 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

F1 - Processing parameters

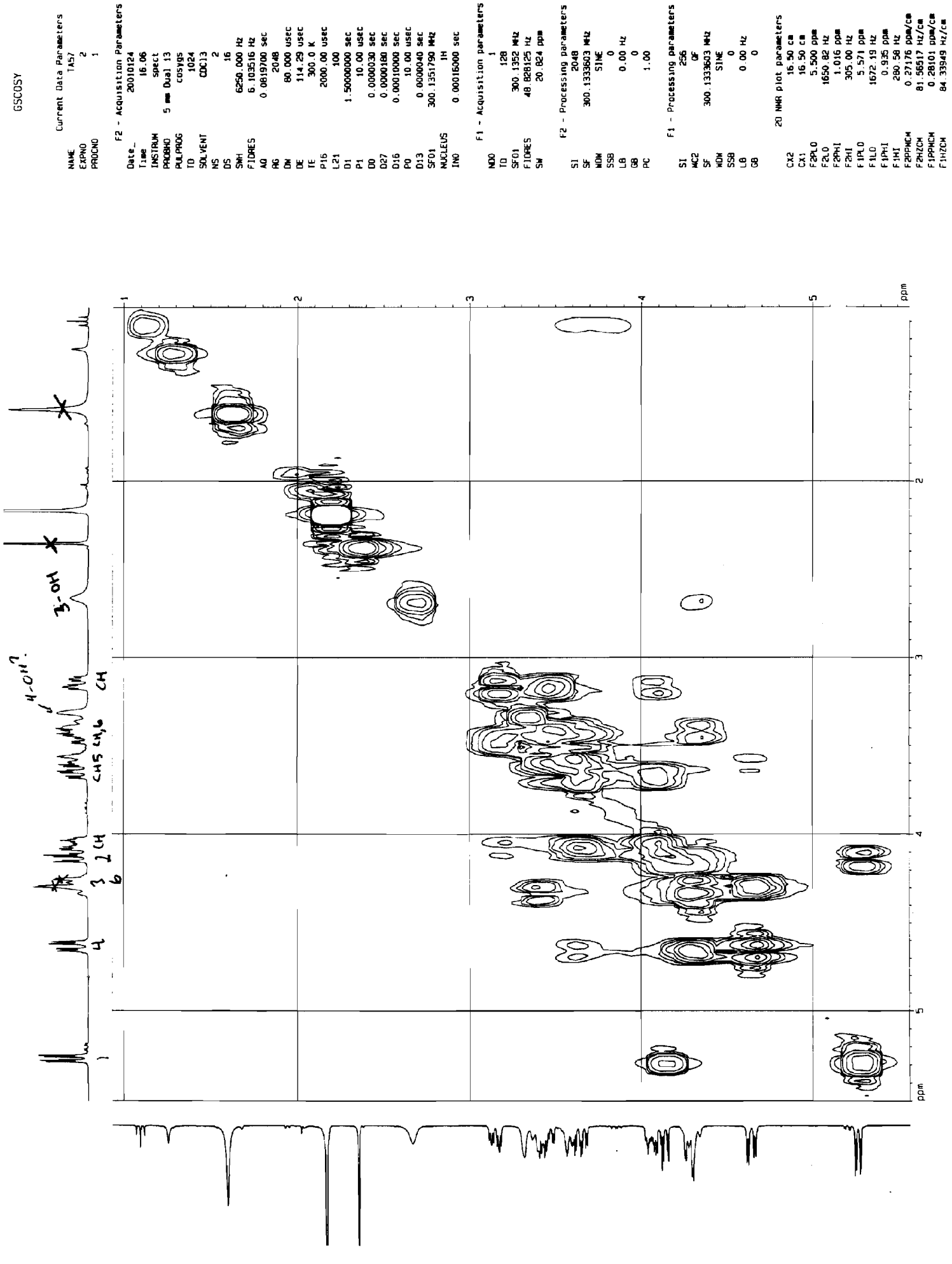
SI	512
MC2	QF
SF	400.1300114 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

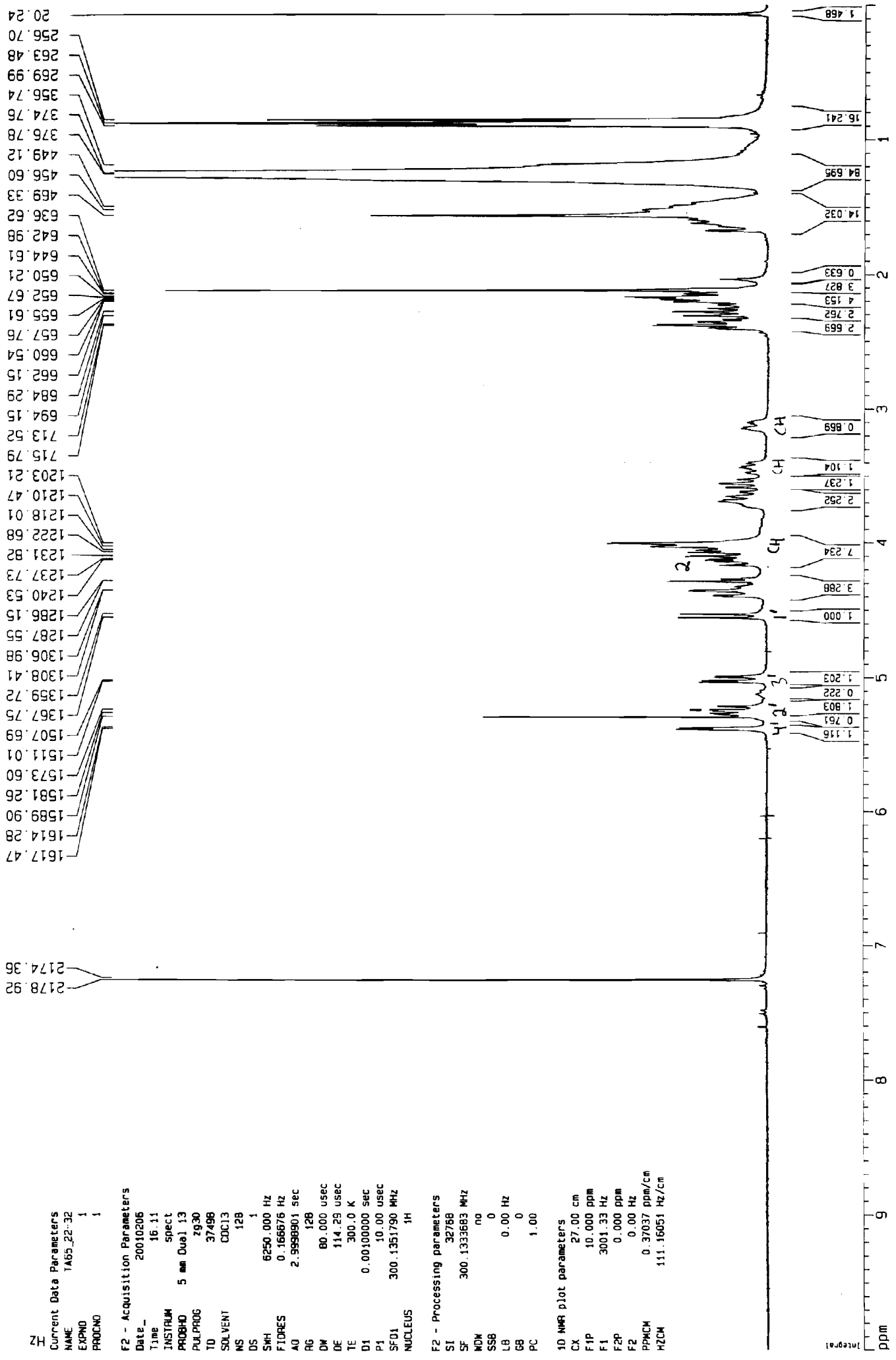
2D NMR plot parameters

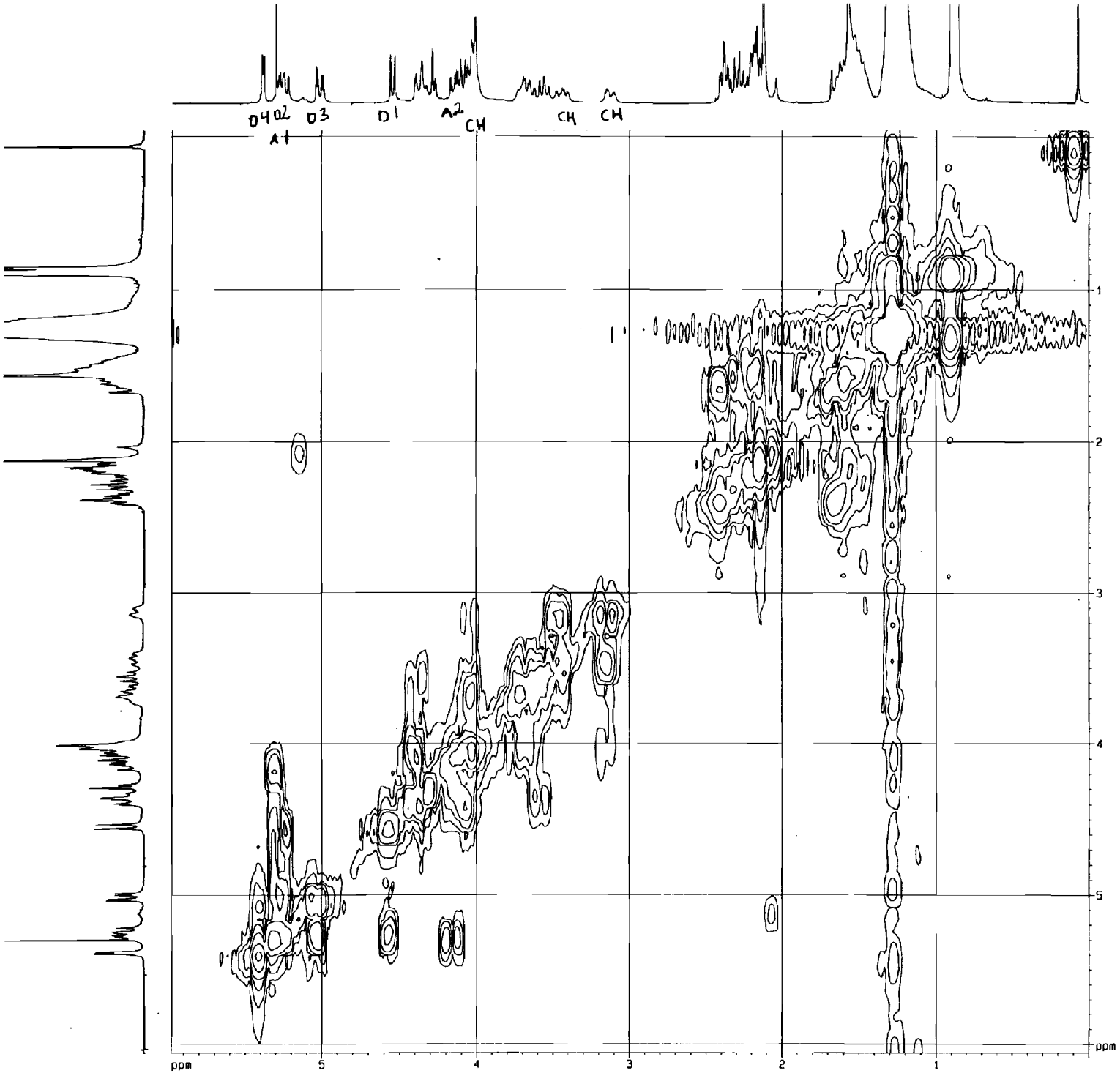
CX2	16.50 cm
CX1	16.50 cm
F2PLO	5.891 ppm
F2LO	2357.25 Hz
F2PHI	0.430 ppm
F2HI	171.93 Hz
F1PLO	5.891 ppm
F1LO	2357.25 Hz
F1PHI	0.430 ppm
F1HI	171.93 Hz
F2PPMCM	0.33100 ppm/cm
F2HZCM	132.44331 Hz/cm
F1PPMCM	0.33100 ppm/cm
F1HZCM	132.44331 Hz/cm


Hz
2185.56
2184.65
2181.01
2179.10
2177.80
2177.30
2176.31
2172.67
2170.27
2156.24
2149.25
2148.80
2147.32
1585.98
1583.52
1577.65
1575.20
1398.63
1395.07
1386.24
1382.67
1289.60
1287.46
1277.21
1275.05
1246.77
1238.46
1236.00
1227.49
1225.15
1211.35
1097.03
1094.17
1083.36
1071.25
1069.64
1030.03
1024.54
1021.08
994.55
950.82
937.38
800.53
706.85
654.25
650.75
649.73
606.04
479.20
376.48
335.50
328.44
321.37
Current Data Parameters
NAME TA57
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010124
Time 16.04
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 24998
SOLVENT CDCl3
NS 128
DS 1
SWH 6250.000 Hz
FIDRES 0.250020 Hz
AQ 1.9998900 sec
RG 128
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H
F2 - Processing parameters
SI 32768
SF 300.1333679 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.33 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16051 Hz/cm
4-OH?
3-OH
1
4
3
2CH
6
CH
5
CH2
CH3
Integral
1.0000
0.0539
1.1376
0.2210
2.0958
0.8783
1.3387
2.2937
2.3584
1.0716
1.0468
0.9535
1.2616
3.3950
0.0485
0.0284
0.0820
2.0617
0.3128
0.2261
ppm
9
8
7
6
5
4
3
2
1

C-13


GSCOSY
Current Data Parameters
NAME TA57
EXPNO 2
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010124
Time 16.06
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG cosygs
TD 1024
SOLVENT CDCl3
NS 2
DS 16
SWH 6250.000 Hz
FIDRES 6.103516 Hz
AQ 0.0819700 sec
RG 2048
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
P16 2000.00 usec
L21 100
D1 1.50000000 sec
P1 10.00 usec
D0 0.0000030 sec
D27 0.0000180 sec
D16 0.00010000 sec
P0 10.00 usec
D13 0.0000040 sec
SFO1 300.1351790 MHz
NUCLEUS 1H
IN0 0.00016000 sec
F1 - Acquisition parameters
NDO 1
TD 128
SFO1 300.1352 MHz
FIDRES 48.828125 Hz
SW 20.824 ppm
F2 - Processing parameters
SI 2048
SF 300.1333603 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
F1 - Processing parameters
SI 256
MC2 QF
SF 300.1333603 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
2D NMR plot parameters
CX2 16.50 cm
CX1 16.50 cm
F2PLO 5.500 ppm
F2LO 1650.82 Hz
F2PHI 1.016 ppm
F2HI 305.00 Hz
F1PLO 5.571 ppm
F1LO 1672.19 Hz
F1PHI 0.935 ppm
F1HI 280.58 Hz
F2PPMCM 0.27176 ppm/cm
F2HZCM 81.56517 Hz/cm
F1PPMCM 0.28101 ppm/cm
F1HZCM 84.33949 Hz/cm
3-OH
4-OH?
CH
CH2
CH2,6
CH
ppm
ppm


Current Data Parameters
NAME TA65_22-32
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010206
Time 16.11
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 37498
SOLVENT CDCl3
NS 128
DS 1
SWH 6250.000 Hz
FIDRES 0.166676 Hz
AQ 2.9998901 sec
RG 128
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H
F2 - Processing parameters
SI 32768
SF 300.1333683 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.33 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16051 Hz/cm
Hz
ppm
Integral
1.468
16.241
84.695
14.032
0.633
3.827
4.153
2.762
2.669
0.869
1.104
1.237
2.252
7.234
3.288
1.000
1.203
0.222
1.803
0.761
1.115
CH
CH
CH
1
2
1'
2'
3'
4'



GSCOSY

Current Data Parameters

NAME	1A65_22-32
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20010206
Time	16.14
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygs
TD	1024
SOLVENT	CDCl3
NS	2
DS	16
SWH	6250.000 Hz
FIDRES	6.103516 Hz
AQ	0.0819700 sec
RG	2048
DW	80.000 usec
DE	114.29 usec
TE	300.0 K
P16	2000.00 usec
L21	100
D1	1.50000000 sec
P1	10.00 usec
D0	0.0000030 sec
D27	0.0000180 sec
D16	0.00010000 sec
P0	10.00 usec
D13	0.0000040 sec
SFO1	300.1351790 MHz
NUCLEUS	1H
INO	0.00016000 sec

F1 - Acquisition parameters

NDO	1
TD	128
SFO1	300.1352 MHz
FIDRES	48.828125 Hz
SW	20.824 ppm

F2 - Processing parameters

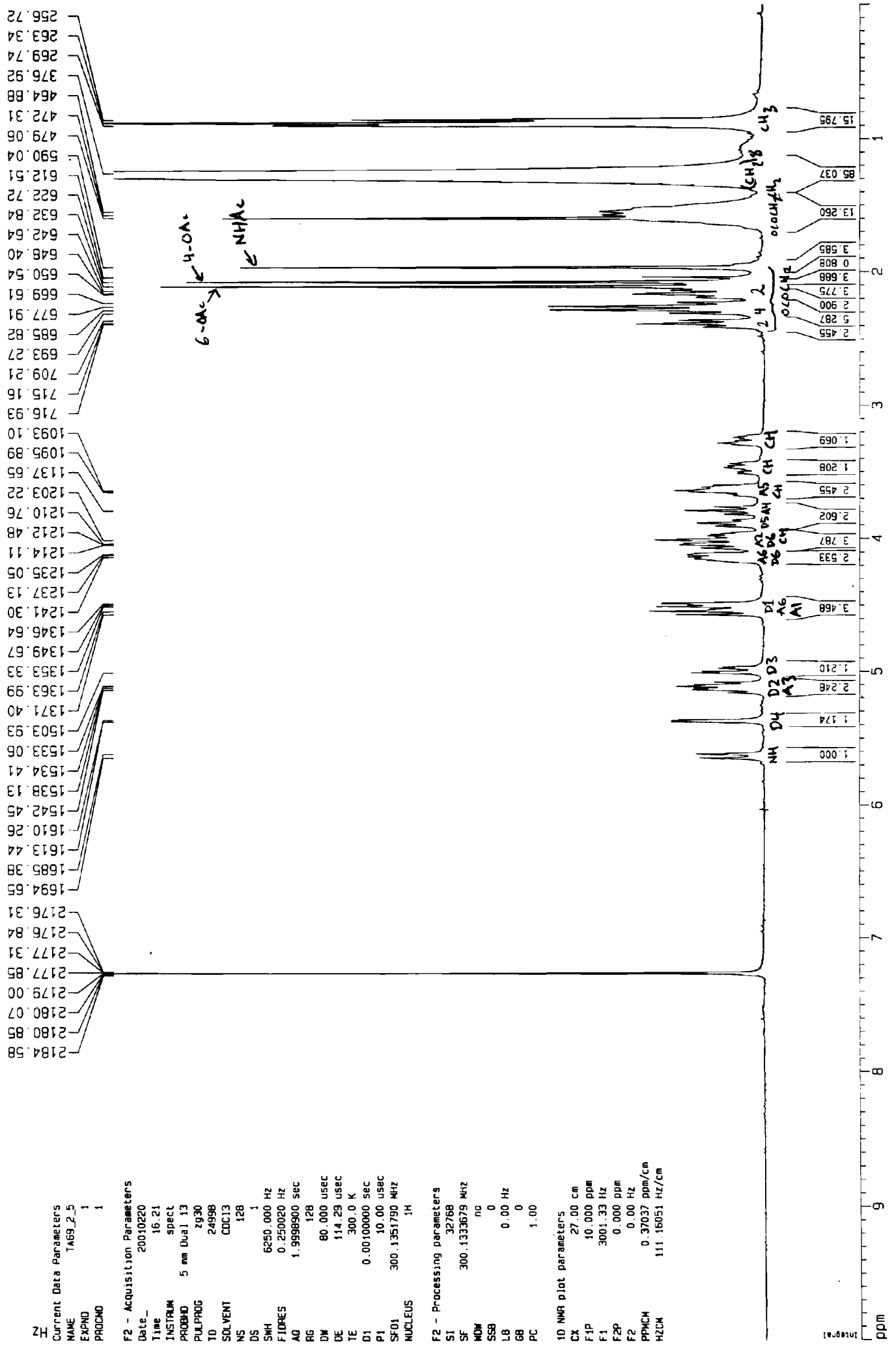
SI	2048
SF	300.1333603 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

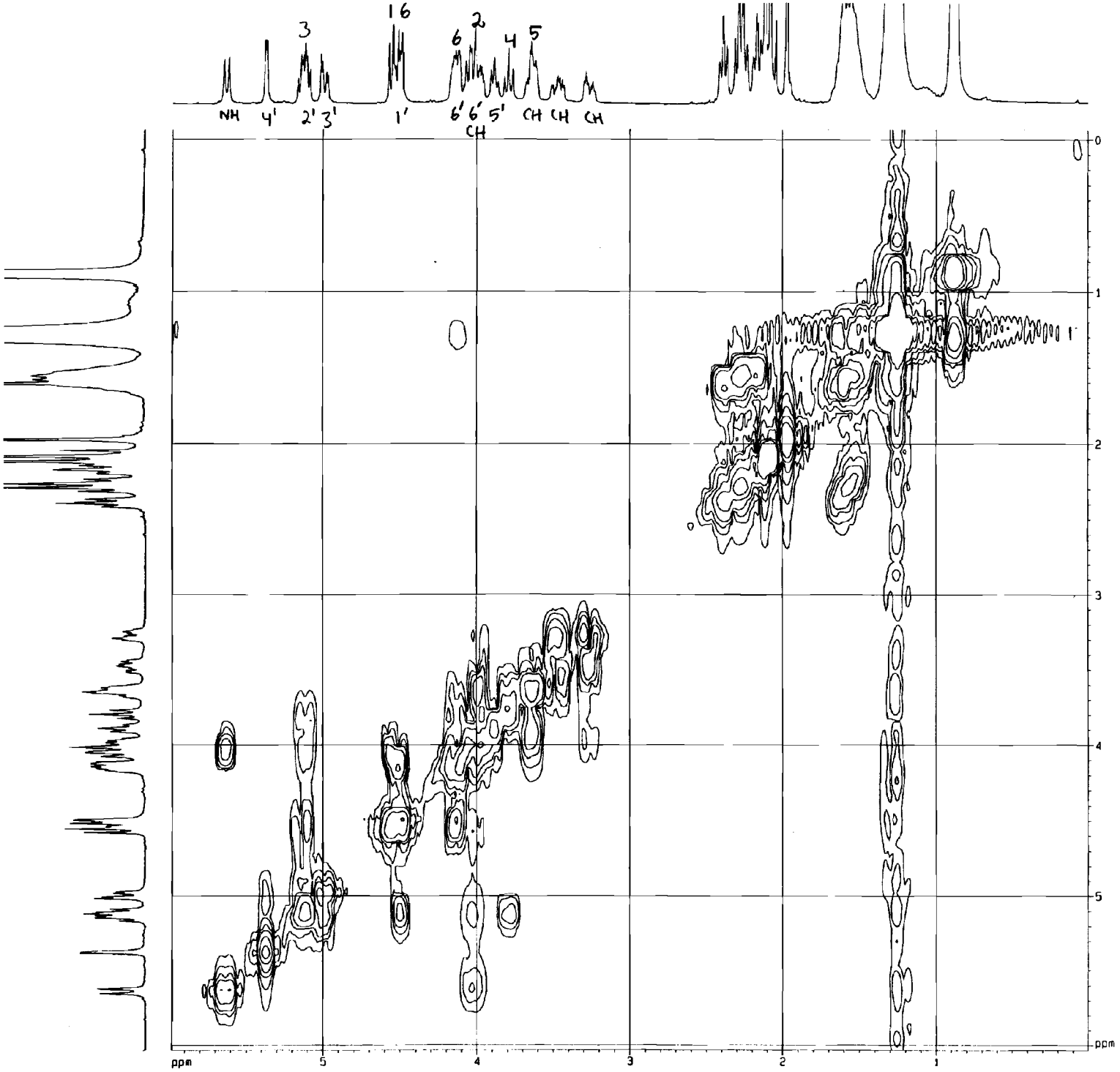
F1 - Processing parameters

SI	256
MC2	QF
SF	300.1333603 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	16.50 cm
CX1	16.50 cm
F2PLO	5.978 ppm
F2LO	1794.26 Hz
F2PHI	-0.001 ppm
F2HI	-0.18 Hz
F1PLO	6.060 ppm
F1LO	1818.67 Hz
F1PHI	-0.041 ppm
F1HI	-12.38 Hz
F2PPMCM	0.36235 ppm/cm
F2HZCM	108.75356 Hz/cm
F1PPMCM	0.36975 ppm/cm
F1HZCM	110.97301 Hz/cm


Current Data Parameters
NAME TA69_2_5
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010220
Time 16.21
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 24998
SOLVENT CDCl3
NS 128
DS 1
SWH 6250.000 Hz
FIDRES 0.250020 Hz
AQ 1.9998900 sec
RG 128
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H
F2 - Processing parameters
SI 32768
SF 300.1333679 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.33 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16051 Hz/cm
6-OAc
4-OAc
NHAc
ppm



GSCOSY

Current Data Parameters

NAME	TA69_2_5
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20010220
Time	16.24
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygs
TD	1024
SOLVENT	CDCl3
NS	1
DS	16
SWH	6250.000 Hz
FIDRES	6.103516 Hz
AQ	0.0819700 sec
RG	2048
DW	80.000 usec
DE	114.29 usec
TE	300.0 K
P16	2000.00 usec
L21	100
D1	1.50000000 sec
P1	10.00 usec
D0	0.0000030 sec
D27	0.0000180 sec
D16	0.00010000 sec
P0	10.00 usec
D13	0.0000040 sec
SFO1	300.1351790 MHz
NUCLEUS	1H
IN0	0.00016000 sec

F1 - Acquisition parameters

ND0	1
TD	128
SFO1	300.1352 MHz
FIDRES	48.828125 Hz
SW	20.824 ppm

F2 - Processing parameters

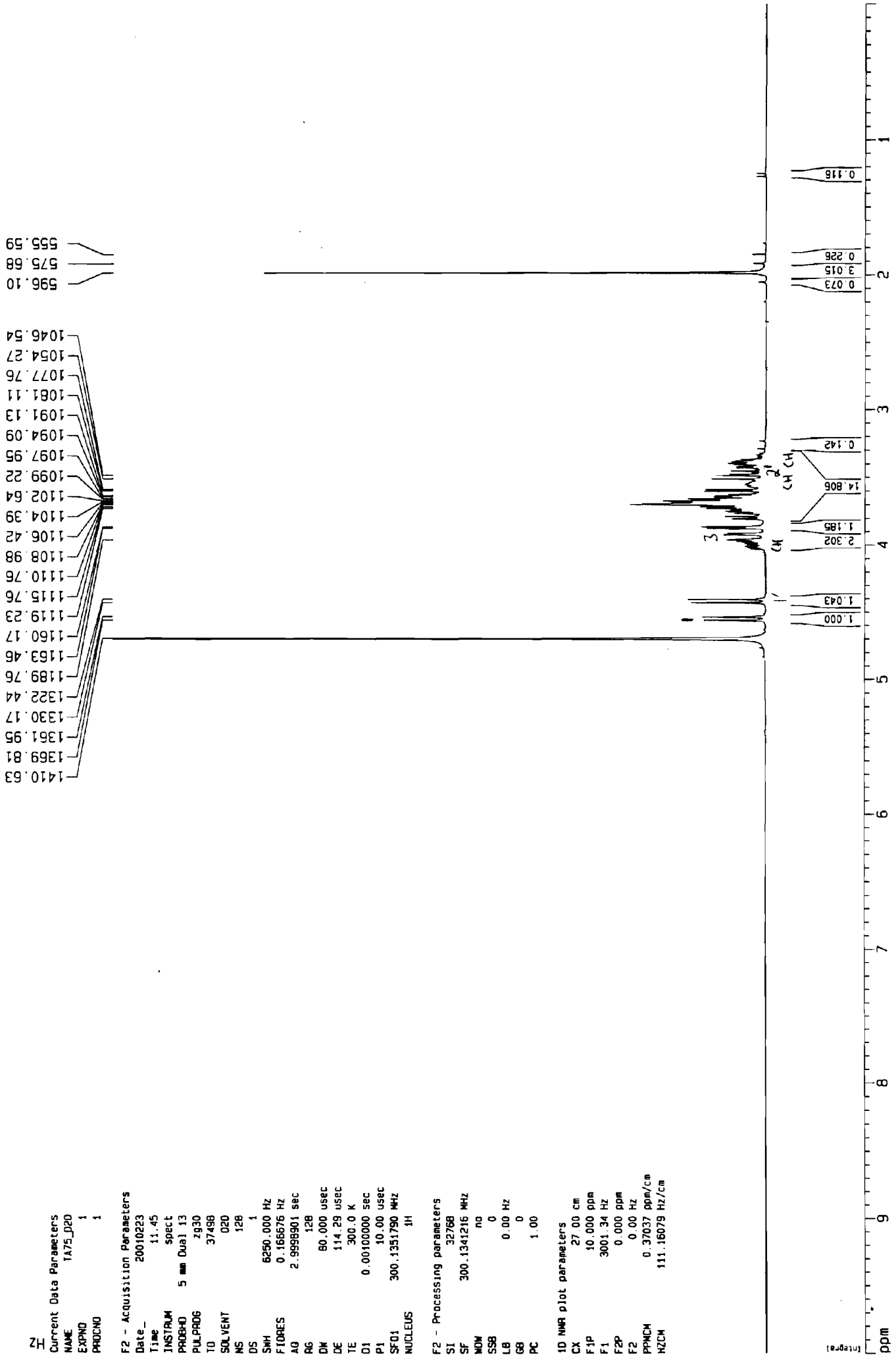
SI	2048
SF	300.1333679 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

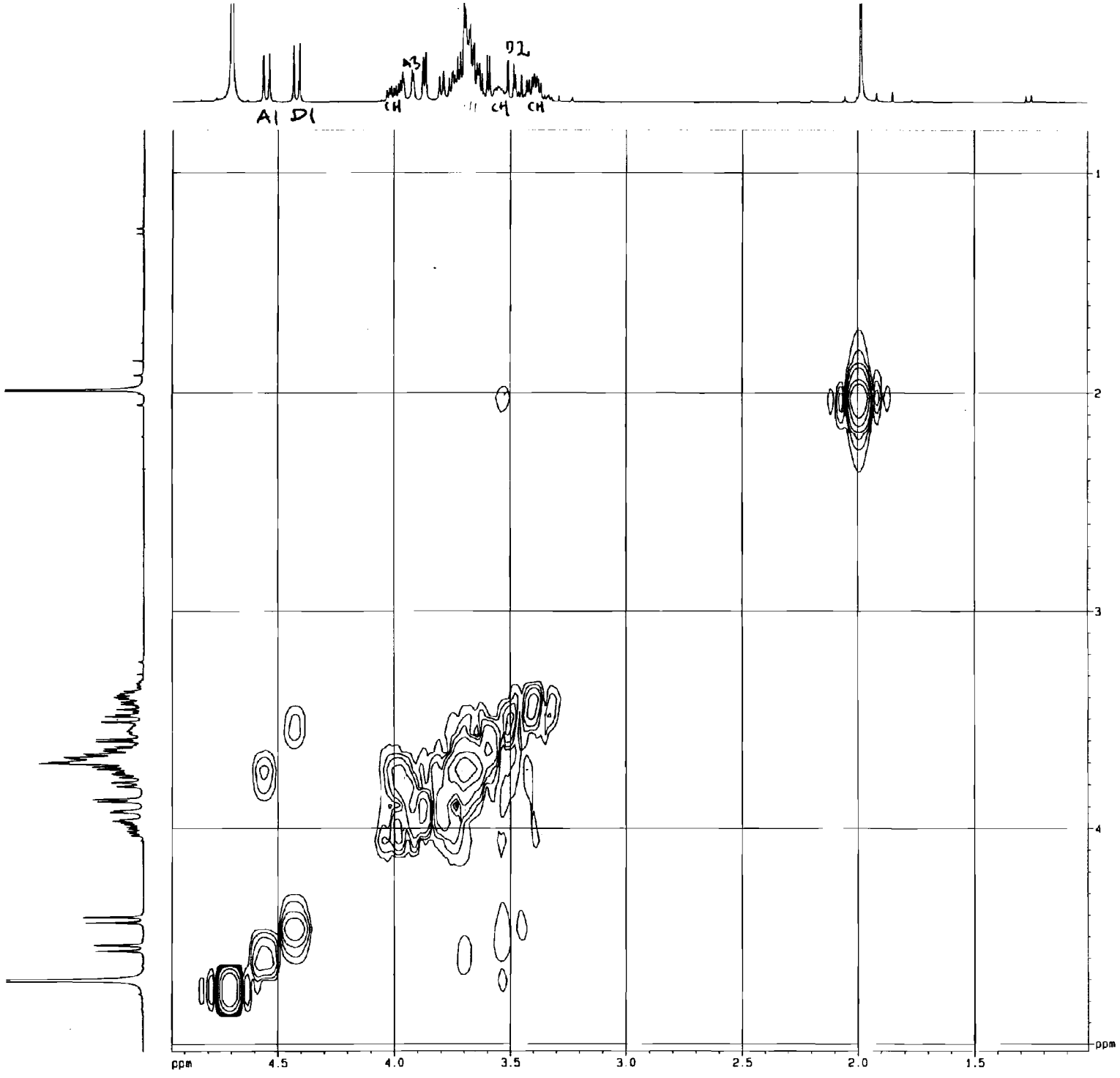
F1 - Processing parameters

SI	256
MC2	QF
SF	300.1333679 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	16.50 cm
CX1	16.50 cm
F2PLO	5.983 ppm
F2LO	1795.78 Hz
F2PHI	0.004 ppm
F2HI	1.35 Hz
F1PLO	6.034 ppm
F1LO	1811.04 Hz
F1PHI	-0.067 ppm
F1HI	-20.01 Hz
F2PPMCM	0.36235 ppm/cm
F2HZCM	108.75354 Hz/cm
F1PPMCM	0.36975 ppm/cm
F1HZCM	110.97301 Hz/cm


1H
Current Data Parameters
NAME 1A75_D20
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20010223
Time 11.45
INSTRUM spect
PROBHD 5 mm Dual 13
PULPROG zg30
TD 37498
SOLVENT D2O
NS 128
DS 1
SWH 6250.000 Hz
FIDRES 0.166676 Hz
AQ 2.9998901 sec
RG 128
DW 80.000 usec
DE 114.29 usec
TE 300.0 K
D1 0.00100000 sec
P1 10.00 usec
SFO1 300.1351790 MHz
NUCLEUS 1H
F2 - Processing parameters
SI 32768
SF 300.1341216 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
1D NMR plot parameters
CX 27.00 cm
F1P 10.000 ppm
F1 3001.34 Hz
F2P 0.000 ppm
F2 0.00 Hz
PPMCM 0.37037 ppm/cm
HZCM 111.16079 Hz/cm
1410.63
1369.81
1361.95
1330.17
1322.44
1189.76
1163.46
1160.17
1119.23
1115.76
1110.76
1108.98
1106.42
1104.39
1102.64
1099.22
1097.95
1094.09
1091.13
1081.11
1077.76
1054.27
1046.54
596.10
575.68
555.59
1.000
1.043
2.302
1.185
14.806
0.142
0.073
3.015
0.226
0.118
1'
2'
3
CH
CH CH
ppm



GSCOSY

Current Data Parameters

NAME	TA75_D20
EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	20010223
Time	11.46
INSTRUM	spect
PROBHD	5 mm Dual 13
PULPROG	cosygs
TD	1024
SOLVENT	D20
NS	2
DS	16
SWH	6250.000 Hz
FIDRES	6.103516 Hz
AQ	0.0819700 sec
RG	2048
DW	80.000 usec
DE	114.29 usec
TE	300.0 K
P16	2000.00 usec
L21	100
D1	1.50000000 sec
P1	10.00 usec
D0	0.0000030 sec
D27	0.0000180 sec
D16	0.00010000 sec
P0	10.00 usec
D13	0.0000040 sec
SFO1	300.1351790 MHz
NUCLEUS	1H
INO	0.00016000 sec

F1 - Acquisition parameters

NDO	1
TD	128
SFO1	300.1352 MHz
FIDRES	48.828125 Hz
SW	20.824 ppm

F2 - Processing parameters

SI	2048
SF	300.1341191 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00

F1 - Processing parameters

SI	256
MC2	QF
SF	300.1341077 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

2D NMR plot parameters

CX2	16.50 cm
CX1	16.50 cm
F2PLO	4.955 ppm
F2LO	1487.11 Hz
F2PHI	1.010 ppm
F2HI	303.02 Hz
F1PLO	5.033 ppm
F1LO	1510.67 Hz
F1PHI	0.803 ppm
F1HI	241.13 Hz
F2PPMCM	0.23910 ppm/cm
F2HZCM	71.76255 Hz/cm
F1PPMCM	0.25636 ppm/cm
F1HZCM	76.94147 Hz/cm

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