

Supporting Information

Cytoglobosins A–G, Cytochalasans from a Marine Derived Endophytic Fungus *Chaetomium globosum* QEN-14

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Contents

- S4 **Table S1.** 1D and 2D NMR data (in DMSO-*d*₆) for cytoglobosins A and B (**1** and **2**);
- S5 **Table S2.** 1D and 2D NMR data (in DMSO-*d*₆) for cytoglobosins C and D (**3** and **4**);
- S6 **Table S3.** 1D and 2D NMR data (in DMSO-*d*₆) for cytoglobosins E–G (**5–7**);
- S7 **Table S4.** 1D NMR data (in DMSO-*d*₆) for isochaetoglobosin (**8**) and chaetoglobosin F_{ex} (**9**);
- S8 **Figure S1.** NOESY correlations (arrows) and the 3D computer modeling of **1**;
 Figure S2. NOESY correlations (arrows) and the 3D computer modeling of **2**;
 Scheme S1. The plausible rearrangement from **8** to **1**;
- S9 ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of cytoglobosin A (**1**);
- S10 ¹³C NMR (125 MHz, DMSO-*d*₆) and DEPT spectra of cytoglobosin A (**1**);
- S11 ¹H–¹H COSY spectrum of the cytoglobosin A (**1**);
- S12 HSQC spectrum of cytoglobosin A (**1**);
- S13 HMBC spectrum of cytoglobosin A (**1**);
- S14 NOESY spectrum of cytoglobosin A (**1**);
- S15 ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of cytoglobosin B (**2**);
- S16 ¹³C NMR (125 MHz, DMSO-*d*₆) and DEPT spectra of cytoglobosin B (**2**);
- S17 ¹H–¹H COSY spectrum of cytoglobosin B (**2**);
- S18 HSQC spectrum of cytoglobosin B (**2**);
- S19 HMBC spectrum of cytoglobosin B (**2**);
- S20 NOESY spectrum of cytoglobosin B (**2**);
- S21 ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of cytoglobosin C (**3**);
- S22 ¹³C NMR (125 MHz, DMSO-*d*₆) and DEPT spectra of cytoglobosin C (**3**);
- S23 ¹H–¹H COSY spectrum of cytoglobosin C (**3**);
- S24 HSQC spectrum of cytoglobosin C (**3**);
- S25 HMBC spectrum of cytoglobosin C (**3**);
- S26 NOESY spectrum of cytoglobosin C (**3**);
- S27 ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of cytoglobosin D (**4**);
- S28 ¹³C NMR (125 MHz, DMSO-*d*₆) and DEPT spectra of cytoglobosin D (**4**);

- S29 ^1H - ^1H COSY spectrum of cytoglobosin D (4);
- S30 HSQC spectrum of cytoglobosin D (4);
- S31 HMBC spectrum of cytoglobosin D (4);
- S32 NOESY spectrum of cytoglobosin D (4);
- S33 ^1H NMR (500 MHz, DMSO- d_6) spectrum of cytoglobosin E (5);
- S34 ^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin E (5);
- S35 ^1H - ^1H COSY spectrum of cytoglobosin E (5);
- S36 HSQC spectrum of cytoglobosin E (5);
- S37 HMBC spectrum of cytoglobosin E (5);
- S38 NOESY spectrum of cytoglobosin E (5);
- S39 ^1H NMR (500 MHz, DMSO- d_6) spectrum of cytoglobosin F (6);
- S40 ^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin F (6);
- S41 ^1H - ^1H COSY spectrum of cytoglobosin F (6);
- S42 HSQC spectrum of cytoglobosin F (6);
- S43 HMBC spectrum of cytoglobosin F (6);
- S44 NOESY spectrum of cytoglobosin F (6);
- S45 ^1H NMR (500 MHz, DMSO- d_6) spectrum of cytoglobosin G (7);
- S46 ^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin G (7);
- S47 ^1H - ^1H COSY spectrum of cytoglobosin G (7);
- S48 HSQC spectrum of cytoglobosin G (7);
- S49 HMBC spectrum of cytoglobosin G (7);
- S50 NOESY spectrum of cytoglobosin G (7).

Table S1. 1D (500 and 125 MHz for ^1H and ^{13}C , respectively) and 2D NMR Data (in DMSO- d_6) for Cytoglobosins A and B (**1** and **2**)

Position	1					2				
	^1H	^{13}C	COSY	HMBC	NOESY	^1H	^{13}C	COSY	HMBC	NOESY
1		173.6, C					172.8, C			
2	8.11, s			9		7.86, s			4, 9	
3	3.25, m	51.4, CH	4, 10			3.27, m	51.5, CH	2, 4, 10		11
4	2.60, br d (5.8)	46.9, CH	3, 5		8	2.35, m	45.9, CH	3, 5	1, 6, 23	8, 10, 22
5	2.62, m	31.4, CH	4, 11			2.71, m	30.8, CH	4, 11		
6		150.7, C					150.8, C			
7	3.85, dd (6.6, 9.5)	70.5, CH	8, 12		13	3.67, dd (6.7, 9.5)	70.5, CH	8		13
8	2.53, d (9.5)	50.9, CH	7, 13	1, 7, 9	4	2.64, dd (9.5, 9.4)	47.0, CH	7, 13		4, 22
9		65.3, C					61.0, C			
10	2.50, m, 2.65, m	32.3, CH ₂	3			2.42, m, 2.49, m	32.5, CH ₂	3		4
11	0.67, d (6.5)	12.5, CH ₃	5	4, 6		0.46, d (6.6)	12.4, CH ₃	5	4, 6	3
12	5.07, s, 4.86, s	112.2, CH ₂	7	5, 7		4.78, s, 4.96, s	112.0, CH ₂		5, 7	
13	5.91, dd (15.4, 9.5)	130.8, CH	8, 14		7, 17	5.91, dd (15.1, 9.4)	126.3, CH	8, 14		7
14	5.04, m	132.4, CH	13, 15		16, 21	5.02, m	134.5, CH	13		
15	2.17, m, 1.81, m	43.5, CH ₂	14, 16			2.22, m, 1.63, m	39.0, CH ₂			
16	1.46, m	41.7, CH	16-Me, 15, 17		21	2.70, m	31.8, CH	17		
17	2.13, br d (6.2)	52.3, CH	16	15	13	4.62, d (10.0)	131.5, CH	16	18-Me	16-Me, 19
18		146.6, C					133.7, C			
19		149.3, C				4.03, br s	78.2, CH	20		17, 20, 21
20		202.7, C				4.48, br s	75.8, CH	19, 21		19, 21
21	2.07, br d (4.9)	50.6, CH	22		14, 16	6.74, dd (3.4, 15.2)	147.2, CH	20, 22	23	19, 20
22	3.00, dd (6.8, 15.1) 1.31, dd (2.4, 15.1)	41.7, CH ₂	21	23		6.54, dd (1.9, 15.2)	123.2, CH ₂	21	20	4, 8
23		212.0, C					197.6, C			
16-Me	0.93, d (7.1)	20.9, CH ₃	16	15, 17	17	0.87, d (6.4)	21.3, CH ₃	16	15, 17	17
18-Me	1.91, s	16.4, CH ₃		17, 18, 19		1.66, s	13.5, CH ₃		19, 17	
1'	10.85, br s					10.86, br s				
1'a		136.0, C					135.1, C			
2'	7.05, d (2.0)	124.0, CH	1'	3'		7.03, s	123.4, CH		3'a	
3'		109.0, C					109.9, C			
3'a		127.4, C					127.3, C			
4'	7.42, d (7.9)	117.9, CH	5',	1'a		7.36, d (7.8)	117.9, CH	5'	1'a, 6'	
5'	6.95, m	118.3, CH	4'	7'		6.95, m	118.3, CH	4'	3'a, 7'	
6'	7.00, m	120.6, CH	7'	1'a, 4'		7.03, m	120.8, CH	7'	1'a	
7'	7.28, d (8.0)	111.4, CH	6'			7.32, d (8.1)	111.3, CH	6'	3'a, 5'	
7-OH	4.87, d (6.6)		7			4.72, d (6.4)				
19-OH						5.02, br s				
20-OH						5.01, br s				

Table S2. 1D (500 and 125 MHz for ^1H and ^{13}C , respectively) and 2D NMR Data (in DMSO- d_6) for Cytoglobosins C and D (**3** and **4**)

Position	3					4				
	^1H	^{13}C	COSY	HMBC	NOESY	^1H	^{13}C	COSY	HMBC	NOESY
1		173.2, C					173.3, C			
2	8.31, s					7.83, s			4, 9	
3	3.33, m	57.5, CH	4			3.30, m	52.9, CH			
4	2.74 br s	47.7, CH	3, 11		8, 10, 22	2.58, dd (2.0, 5.8)	48.7, CH			10, 22
5		125.0, C				2.36, m	34.1, CH	11		8
6		134.5, C					138.4, C			
7	3.65, dd (7.4, 9.4)	67.5, CH	8, 12		13	5.30, br s	126.0, CH	8, 12		12
8	2.21, m	49.9, CH	7, 12, 13	1	4, 22	2.77, br d (10.5)	45.4, CH	7, 13		5, 14
9		60.5, C					66.1, C			
10	2.72, m	31.3, CH ₂	3			2.69, dd (5.6, 14.3)	33.4, CH ₂			4
	2.47, m					2.53, dd (7.5, 14.3)				
11	1.54, s	14.5, CH ₃		6	12	0.71, d (7.2)	13.3, CH ₃	5	4, 6	
12	1.13, s	16.7, CH ₃	7	5, 8	11	1.62, s	21.3, CH ₃	7	5, 6, 7	7
13	5.84, dd (11.4, 15.3)	127.1, CH	8, 14		7	6.09, dd (10.5, 15.3)	128.8, CH	8, 14		
14	5.00, m	135.0, CH				5.04, ddd (2.6, 9.8, 15.1)	132.0, CH	13, 15		8, 16
15	2.24, m, 1.63, m	39.0, CH ₂	16			2.17, m, 1.72, m	41.2, CH ₂	14, 16		
16	2.53, m	31.7, CH	15, 16-Me			2.27, m	31.5, CH	15, 16-Me		14
17	4.65, d (10.0)	131.6, CH	16		16-Me	4.72, d (8.8)	131.8, CH	16	19	
18		133.9, C					136.1, C			
19	4.05, br s	78.3, CH	20		17, 20, 21	3.97, dd (4.0, 7.4)	78.1, CH	20		20, 21
20	4.52, br s	75.5, CH	19		19, 21	4.30, dd (4.3, 7.4)	75.3, CH	19, 21		19, 21
21	6.83, dd (3.3, 15.1)	147.9, CH	20, 22	23	19, 20	6.55, dd (4.0, 15.5)	145.6, CH	20, 22		17, 19, 20
22	6.57, dd (1.9, 15.1)	122.8, CH	21			6.51, d (15.5)	125.0, CH	21		4
23		198.3, C					198.3, C			
16-Me	0.89, d (6.5)	21.2, CH ₃	16	17	17	0.88, d (6.7)	19.3, CH ₃	16	15, 17	
18-Me	1.65, s	13.5, CH ₃		17, 19		1.57, s	12.8, CH ₃		17	
1'	10.87, br s					10.8, br s				
1'a		136.1, C					133.9, C			
2'	7.10, d (0.87)	123.2, CH	1'	3'		7.07, d (2.2)	123.7, CH	1'	3'a	
3'		110.2, C					109.6, C			
3'a		125.9, C					127.5, C			
4'	7.41, d (7.9)	118.0, CH	5'	6', 1'a		7.42, d (7.6)	118.0, CH	5'	1'a	
5'	7.00, m	118.3, CH	4'			6.97, m	118.3, CH	4'		
6'	7.06, m	120.9, CH	7'			7.02, m	120.7, CH	7'	4'	
7'	7.33, d (8.1)	110.3, CH	6'	3'a		7.30, d (8.1)	111.3, CH	6'	3'a	
7-OH	4.52, br s									
19-OH	5.02, d (4.5)					4.94, d (4.4)		19		
20-OH	5.10, d (4.3)					4.96, d (4.5)		20		

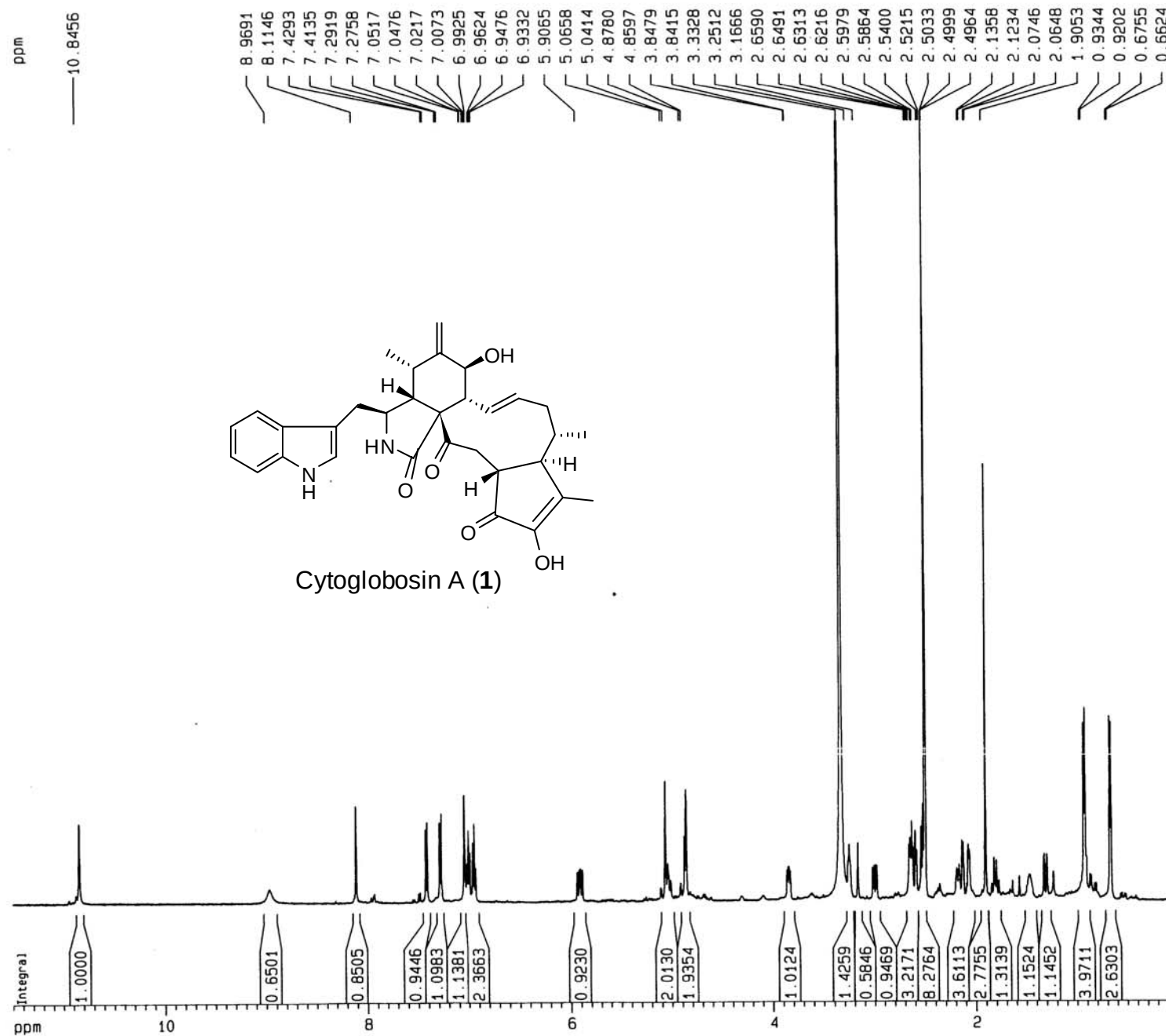
Table S3. 1D (500 and 125 MHz for ¹H and ¹³C, respectively) and 2D NMR Data (in DMSO-*d*₆) for Cytoglobosins E-G (5-7)

Position	5					6					7				
	¹ H	¹³ C	COSY	HMBC	NOESY	¹ H	¹³ C	COSY	HMBC	NOESY	¹ H	¹³ C	COSY	HMBC	NOESY
1		174.0, C					173.0, C					173.2, C			
2	8.12, s		3	4, 9		8.04, s		2	4, 9		8.12, s		2, 4	4, 9	
3	3.42, brs	53.8, CH	2, 4, 10		11	3.25, m	51.7, CH				3.25, m	51.4, CH	3		
4	2.32, m	49.6, CH	3			2.29, dd (2.4, 5.3)	45.9, CH	11		5, 8	2.39, dd (2.8, 5.2)	46.1, CH	4, 11		5
5	2.33, m	34.1, CH	7, 11			2.67, m	31.5, CH			4	2.64, m	32.0, CH			4, 8
6		142.2, C					150.9, C	8		13		151.0, C	8		13
7	5.46, br s	125.4, CH	5, 8, 12		12	3.62, dd (6.6, 8.1)	69.8, CH	7, 13	1	4, 14	3.60, br d (9.9)	70.2, CH	7, 13		5
8	2.88, br s	45.3, CH	7, 13			2.53, d (9.7)	48.5, CH				2.32, m	49.8, CH			
9		65.2, C					62.0, C					61.6, C			
10	2.93, dd, 4.1 (15.0) 2.69, dd, 3.4 (15.0)	30.8, CH ₂	3			2.09, m	33.4, CH ₂				2.81, dd (4.6, 14.6) 2.52, dd (3.33, 14.6)	31.3, CH ₂	3		
11	1.18, d (6.5)	12.0, CH ₃	5	4, 6	3	0.77, d (6.7)	13.0, CH ₃	5	4, 6		0.95, d (6.7)	13.1, CH ₃	5	4, 6	
12	3.94, br s	61.4, CH ₂	7		7	4.88, s 5.01, s	111.9, CH ₂		5, 7		4.93, s 5.11, s	111.7, CH ₂			
13	5.87, dd (10.6, 14.3)	129.0, CH	8, 14			5.78, dd (9.7, 15.2)	127.6, CH	8, 14		7	5.66, dd (9.4, 14.8)	130.4, CH	8, 14		7
14	4.90, ddd (2.3, 11.0, 14.3)	131.3, CH	13, 15			4.98, ddd (2.9, 10.7, 15.2)	132.5, CH	13, 15		8, 16	4.74, m	130.7, CH	13, 15		
15	2.28, m 1.77, m	39.0, CH ₂	14, 16			1.76, m 2.17, m	41.1, CH ₂	14, 16			2.06, m, 1.70 m	41.9, CH ₂	14, 16		
16	2.67, m	32.6, CH	15, 17		18-Me	2.42, m	31.7, CH	15, 17		14	2.22, m	30.5, CH	15, 17		
17	5.87, d (9.2)	154.8, CH	18-Me	19, 18-Me	13, 16-Me	5.22, d (9.0)	137.2, CH	16, 18-Me	19, 18-Me	19	4.78, m	133.4, CH	16	18-Me	19
18		130.1, C					131.6, C					134.0, C			
19		195.7, C				4.32, d (4.3)	81.6, CH			17	3.39, br s	77.3, CH	20		17
20		204.9, C					209.5, C				3.20, br s	71.0, CH	19, 21		
21	2.38, m 1.58, m	31.9, CH ₂	22	19		2.67, m 1.54, m	31.5, CH ₂	22			2.33, m 0.61, m	26.6, CH ₂	20, 22		
22	2.39, m 1.05, m	36.6, CH ₂	21	20		2.68, m 1.64, m	34.2, CH ₂	21			0.98, m 0.78, m	35.9, CH ₂	21		
23		208.3, C					208.5, C					210.1, C			
16-Me	0.92, d (9.1)	19.0, CH ₃	16	15, 17	17	0.92, d (6.5)	21.1, CH ₃	16	15, 17		0.85, d (6.7)	21.1, CH ₃	16	15, 17	
18-Me	1.70, s	10.2, CH ₃	18	17, 19	16	1.33, s	10.6, CH ₃	18	17, 19		1.50, s	12.3, CH ₃		17, 18, 19	
1'	10.96, br s			3', 3'a		10.91, br s					10.89, br s				
1'a		135.8, C					135.9, C					136.0, C			
2'	7.16, d (2.1)	125.2, CH	1'			7.10, d (2.2)	124.6, CH	1'	3'a		7.04, d (2.2)	125.0, CH	1'		
3'		108.4, C					108.8, C					108.4, C			
3'a		127.9, C					128.8, C					127.7, C			
4'	7.57, d (7.9)	118.5, CH	5'	1'a		7.45, d (7.9)	118.1, CH	5'	6'		7.50, d (7.9)	118.3, CH	5'	1'a	
5'	7.00, m	118.6, CH	4'	3'a		6.95, m	118.4, CH	4'	3'a		6.95, m	118.5, CH	4'	3'a	
6'	7.07, m	120.8, CH	7'	4'		7.00, m	120.6, CH	7'			7.01, m	120.6, CH	7'	1'a	
7'	7.33, d (8.1)	111.2, CH	6'	5'		7.28, d (8.0)	111.3, CH	6'	5'		7.28, d (8.0)	111.0, CH	6'	5'	
7-OH						4.74, d (6.5)		7			4.70, br s				
12-OH	4.73, t (5.01)		12												
19-OH						4.90, d (4.3)					4.63, br s		19		20-OH
20-OH											4.06, br s		20		19-OH

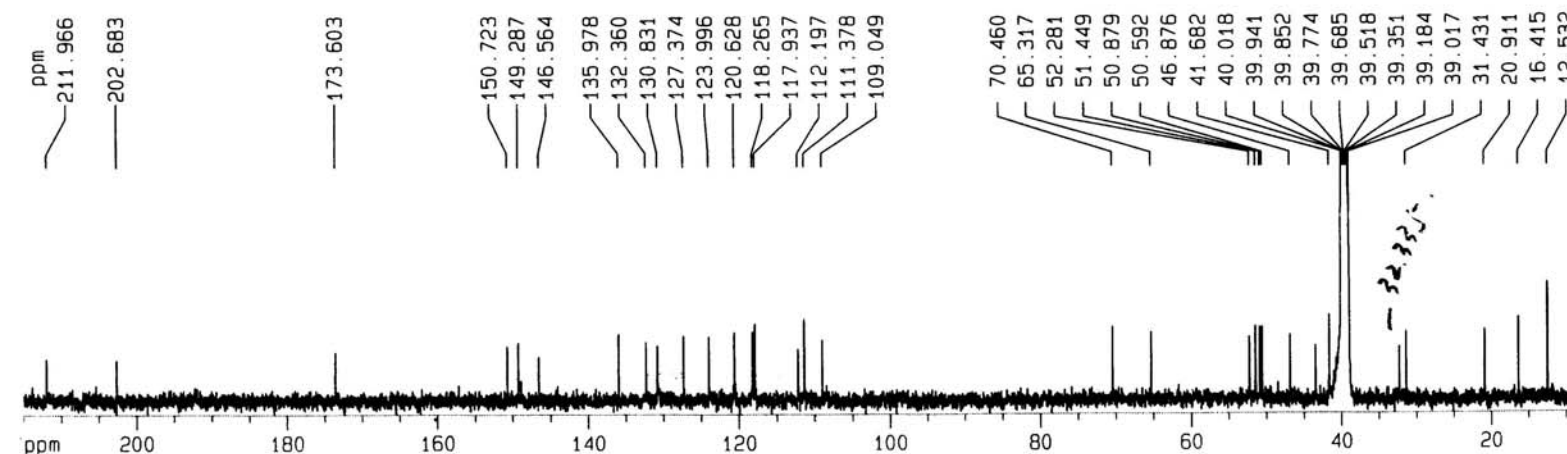
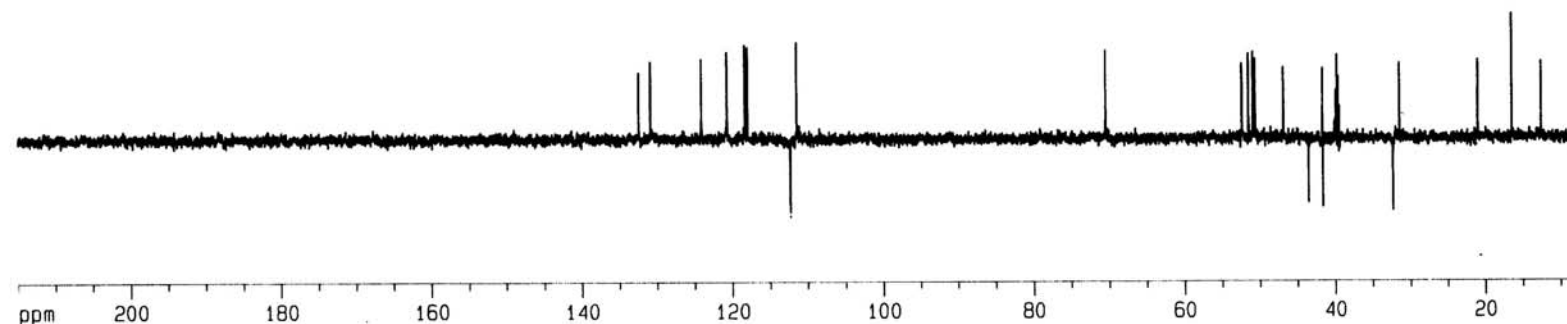
Table S4. ^1H - and ^{13}C -NMR Data for Isochaetoglobosin (**8**) and Chaetoglobosin F_{ex} (**9**) (in DMSO-*d*₆, 500 and 125 MHz for ^1H and ^{13}C , respectively)

Position	8		9	
	^1H	^{13}C	^1H	^{13}C
1		173.7, C		173.4, C
2	8.27, s		8.05, s	
3	3.30, br s	52.1, CH	3.22, m	51.7, CH
4	2.21, br s	45.8, CH	2.33, dd (2.3, 5.1)	46.3, CH
5	2.65, m	32.6, CH	2.64, m	31.3, CH
6		150.8, C		150.8, C
7	3.56, t (8.4)	68.6, CH	3.60, dd (6.1, 8.9)	69.6, CH
8	2.57, br s	48.7, CH	2.45, d (9.7)	48.2, CH
9		60.8, C		61.9, C
10	2.89, m	30.7, CH ₂	2.69, m	32.8, CH ₂
	2.61, m		1.96, m	
11	0.96, d (6.4)	13.3, CH ₃	0.66, d (7.0)	12.9, CH ₃
12	4.96, s	112.4, CH ₂	4.84, s	111.8, CH ₂
	5.18, s		5.05, s	
13	5.79, dd (10.2, 14.3)	127.4, CH	6.04, dd (9.3, 15.1)	127.5, CH
14	4.83, m	133.0, CH	5.02, m	132.7, CH
15	2.28, m	39.0, CH ₂	2.30, m	40.5, CH ₂
	1.76, m		1.86, m	
16	2.64, m	32.6, CH	2.67, m	32.8, CH
17	5.86, d (8.8)	155.7, CH	6.15, d (10.0)	147.7, CH
18		130.7, C		134.8, C
19		196.0, C		203.8, C
20		205.2, C	4.52, dd (8.0, 9.8)	70.3, CH
21	2.43, m	31.9, CH ₂	1.45, m	30.0, CH ₂
	1.56, m		1.52, m	
22	2.33, m	36.7, CH ₂	2.70, m	36.2, CH ₂
	1.21 m			
23		207.9, C		209.0, C
16-Me	0.94, d (6.4)	19.1, CH ₃	0.97, d (6.6)	19.6, CH ₃
18-Me	1.69, s	10.0, CH ₃	1.69, s	11.9, CH ₃
1'	11.00, br s		10.88, br s	
1'a		135.8, C		136.0, C
2'	7.14, s	125.1, CH	7.07, d (2.1)	124.2, CH
3'		108.4, C		109.1, C
3'a		127.8, C		128.5, C
4'	7.54, d (7.6)	118.4, CH	7.42, d (8.3)	118.3, CH
5'	7.00, m	118.6, CH	6.96, m	117.9, CH
6'	7.06, m	120.9, CH	7.04, m	120.7, CH
7'	7.33, d (8.0)	111.2, CH	7.31, d (8.0)	111.3, CH
7-OH	4.70, d (6.6)		4.74, d (6.5)	

^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of cytoglobosin A (**1**)



^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin A (1)



Current Data Parameters
NAME en14-14
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070509
Time 15.06
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG zgdc30
TD 65536
SOLVENT CDCl3
NS 8192
DS 4
SWH 30030.029 Hz
FIDRES 0.458222 Hz
AQ 1.0912410 sec
RG 16384
DW 16.650 usec
DE 6.00 usec
TE 304.5 K
D1 2.00000000 sec
d11 0.03000000 sec
MCREST 0.00000000 sec
MCWAK 0.01500000 sec

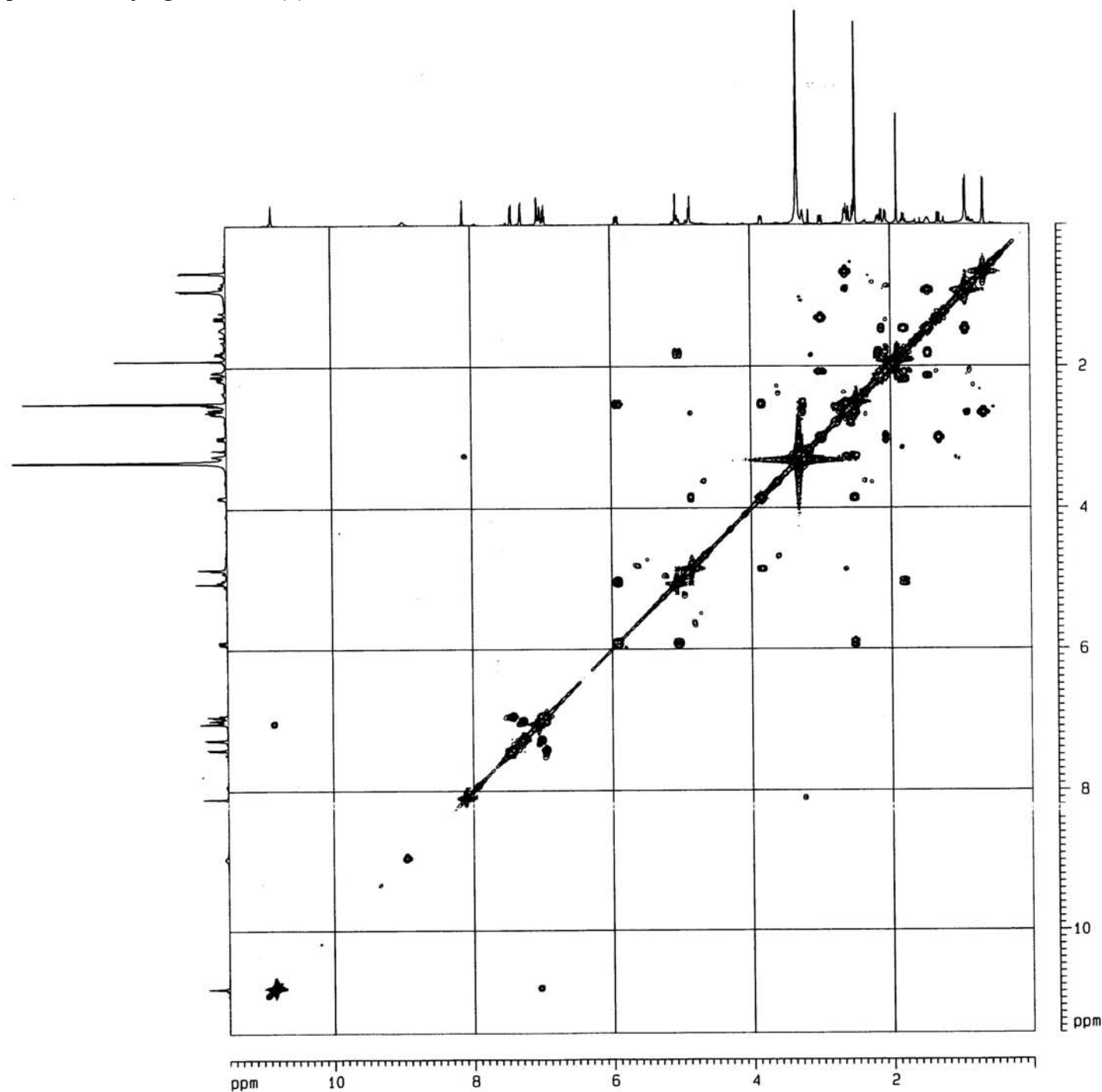
===== CHANNEL f1 =====
NUC1 ^{13}C
P1 11.00 usec
PL1 2.20 dB
SF01 125.7703643 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 ^1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 16.00 dB
SF02 500.1320005 MHz

F2 - Processing parameters
SI 32768
SF 125.7578630 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 22.00 cm
CY 0.00 cm
F1P 215.000 ppm
F1 27037.94 Hz
F2P 8.000 ppm
F2 1006.06 Hz
PPMCH 9.40909 ppm
HZCM 1183.26721 Hz

^1H - ^1H COSY spectrum of cytoglobosin A (1)



```

Current Data Parameters
NAME          en14-14
EXPNO         5
PROCNO        1

F2 - Acquisition Parameters
Date_         20070510
Time          0.05
INSTRUM       av500
PROBHD        5 mm BBO BB-1H
PULPROG       cosyppqf
TD            1024
SOLVENT       CDCl3
NS            4
DS            8
SWH           6666.667 Hz
FIDRES        6.510417 Hz
AQ            0.0769250 sec
RG            226.1
OW            75.000 usec
DE            6.00 usec
TE            301.1 K
G0            0.00000300 sec
D1            1.48689198 sec
d13           0.00000400 sec
D16           0.00020000 sec
IN0           0.00015000 sec
MCREST        0.00000000 sec
MCWRK         1.48689198 sec

----- CHANNEL f1 -----
NUC1          1H
P0            11.40 usec
P1            11.40 usec
PL1           -1.00 dB
SF01          500.133069 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           1000.00 usec

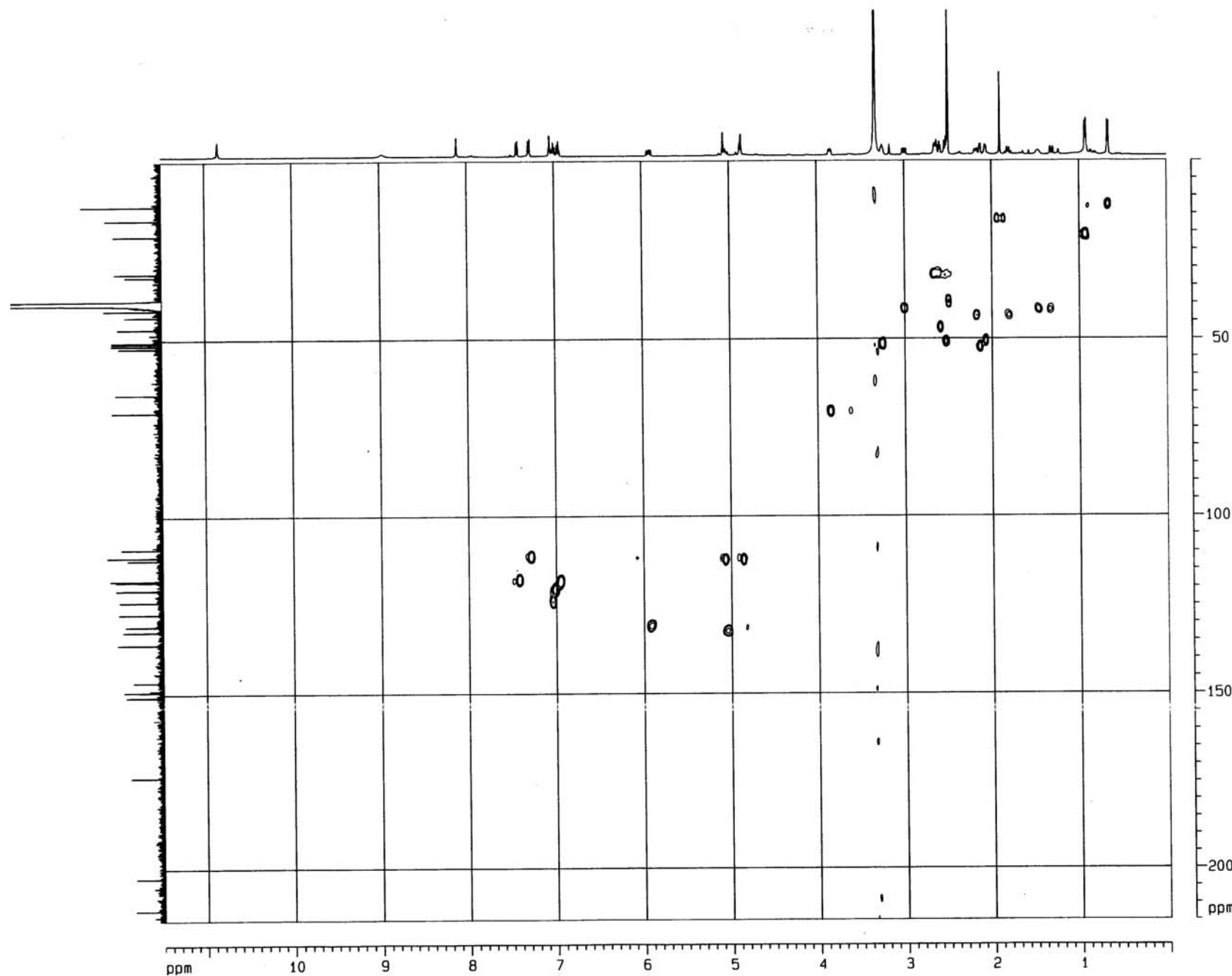
F1 - Acquisition parameters
ND0           1
TD            256
SF01          500.133 MHz
FIDRES        26.041666 Hz
SM            13.330 ppm
F0MODE        OF

F2 - Processing parameters
SI            1024
SF            500.1300056 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0
PC            1.40

F1 - Processing parameters
SI            1024
HC2           OF
SF            500.1300056 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0

2D NMR plot parameters
CX2           15.00 cm
CX1           15.00 cm
F2PL0         11.500 ppm
F2L0          5751.50 Hz
F2PHI         0.000 ppm
F2HI          0.00 Hz
F1PL0         11.500 ppm
F1L0          5751.50 Hz
F1PHI         0.000 ppm
F1HI          0.00 Hz
F2PPMCH       0.76667 ppm/cm
F2HZCH        383.43298 Hz/cm
F1PPMCH       0.76667 ppm/cm
  
```

HSQC spectrum of cytoglobin A (1)



Current Data Parameters

NAME: en14-14
EXPNO: 6
PROCNO: 1

F2 - Acquisition Parameters

DATE_: 20070625
Time: 15.52
INSTRUM: cryo
PROBHD: 5 mm BBO BB-1H
PULPROG: magstep12
TD: 1024
SOLVENT: DMSO
NS: 16
DS: 16
SWH: 8866.667 Hz
FIDRES: 0.510417 Hz
AQ: 0.0788260 sec
RG: 62.84
DQ: 75.000 usec
DE: 8.00 usec
TE: 301.2 K

CHG12: 145.0000000
d0: 0.00003300 sec
d1: 1.50000000 sec
d4: 0.00172414 sec
d11: 0.03000000 sec
d13: 0.00000400 sec
d16: 0.00000000 sec
d24: 0.00000017 sec
DELTA: 0.00127880 sec
DELTA1: 0.00120800 sec
DELTA2: 0.00062677 sec
DELTA3: 0.00052414 sec
DNO: 0.00001856 sec
HOREST: 0.00000000 sec
HCFIR: 0.25000001 sec
STICK: 128

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

NUC1: 1H
P1: 11.40 usec
P2: 22.80 usec
P2B: 1000.00 usec
PL1: -1.00 dB
PL2: 500.1330000 MHz

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

OPPRG2: gpr2
NUC2: 15N
P3: 11.00 usec
P4: 22.00 usec
PQPD: 70.00 usec
PL2: 2.50 dB
PL12: 18.90 dB
SF02: 125.7716224 MHz

***** GRADIENT CHANNEL *****

OPRAM1: SINE: 100
OPRAM2: SINE: 100
OPRAM3: SINE: 100
OPRAM4: SINE: 100
GPX1: 0.00 s
GP2: 0.00 s
GP3: 0.00 s
GP4: 0.00 s
GP1: 0.00 s
GP2: 0.00 s
GP3: 0.00 s
GP4: 0.00 s
GP1: 00.00 s
GP2: 20.10 s
GP3: 11.00 s
GP4: -5.00 s
P16: 1000.00 usec
P19: 600.00 usec

F1 - Acquisition parameters

NUC: 2
TD: 121
SF01: 125.7716 MHz
FIDRES: 249.493210 Hz
SW: 249.628 ppm
FWDDE: Echo-ant180Hz

F2 - Processing parameters

SF: 1024
SF: 500.1330000 MHz
WDW: GSSINE
SSB: 2
LB: 0.00 Hz
GB: 0
PC: 1.40

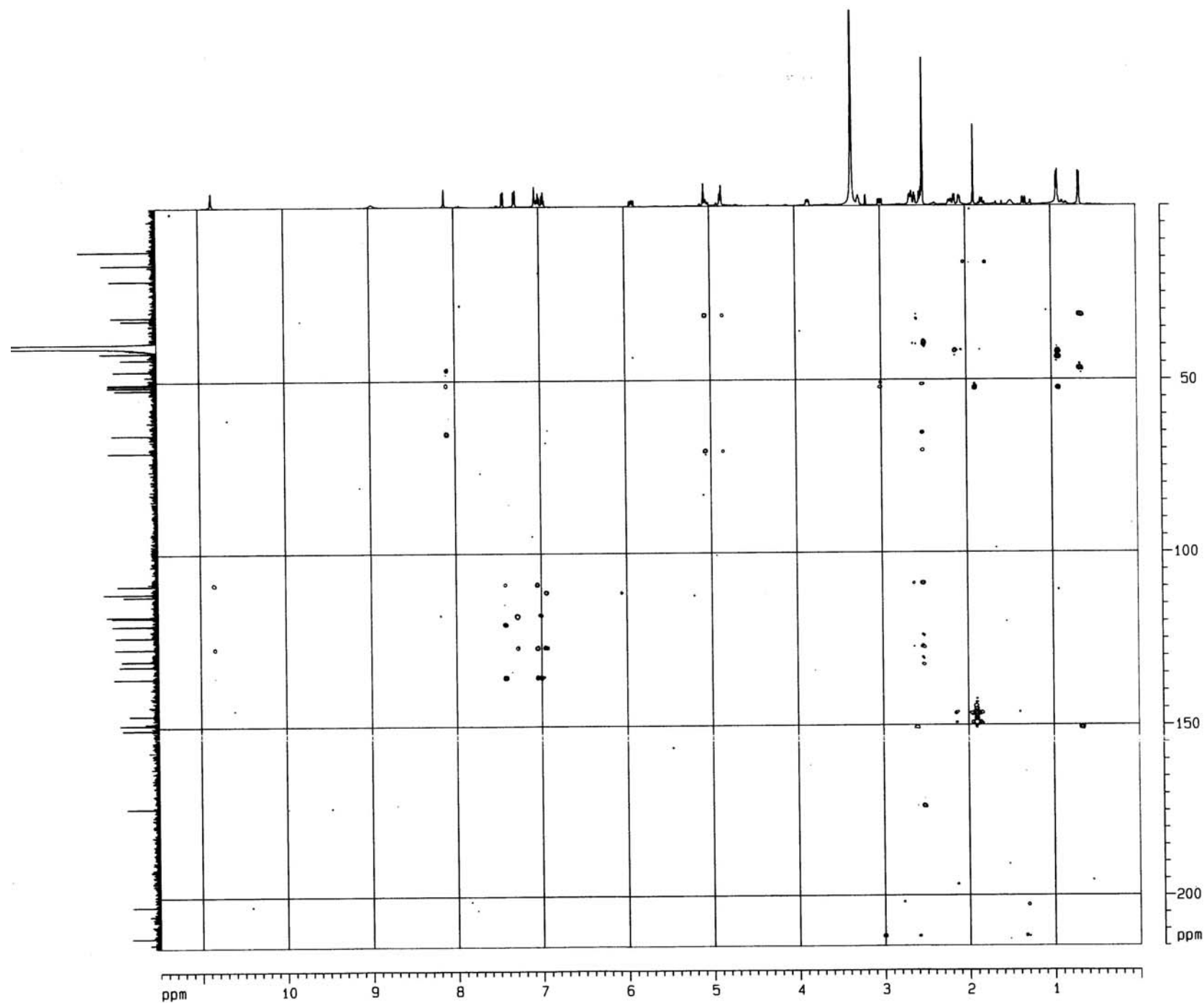
F1 - Processing parameters

SF: 1024
NUC: echo-ant180Hz
SF: 125.7578830 MHz
WDW: GSSINE
SSB: 2
LB: 0.00 Hz
GB: 0

2D NMR plot parameters

CX2: 20.00 cm
CX1: 15.00 cm
F2PL0: 11.500 ppm
F2L0: 5751.50 Hz
F2PH1: -0.000 ppm
F2H1: -0.00 Hz
F2PL0: 215.000 ppm
F2L0: 27037.84 Hz
F2PH1: -0.000 ppm
F2H1: -0.00 Hz
F2PHCH: 0.57000 ppm/s
F2HCH: 287.57477 Hz/cm
F2CHCH: 2.2.00000000

HMBC spectrum of cytoglobosin A (1)



```

Current Data Param
NAME      ent14-14
EXPNO     7
PROCNO    1

F2 - Acquisition Param
Date_     20070510
Time      1.20
INSTRUM   av500
PROBHD    5 mm BBO BB-1H
PULPROG   hmcgplndrf
TD         1024
SOLVENT   CDCl3
NS         8
DS         16
SWH        6510.417 Hz
FIDRES     6.357829 Hz
AQ         0.0787700 sec
RG         16384
CW         76.800 usec
DE         6.00 usec
TE         300.1 K
CHST2      1.45.0000000
CHST13     7.0000000
d0         0.00000300 sec
d1         1.50000000 sec
d2         0.00344620 sec
d5         0.07142857 sec
d16        0.00020000 sec
IN0        0.0001856 sec
MCREST     0.00000000 sec
MCMRK      1.50000000 sec

----- CHANNEL f1 -----
NUC1        1H
P1          11.40 usec
P2          22.80 usec
PL1         -1.00 dB
SF01        500.1331508 MHz

----- CHANNEL f2 -----
NUC2        13C
P3          11.00 usec
PL2         2.60 dB
SF02        125.7716224 MHz

----- GRADIENT CHANNEL -----
GRAN1      SINE 100
GRAN2      SINE 100
GRAN3      SINE 100
GPX1       0.00 %
GPX2       0.00 %
GPX3       0.00 %
GPY1       0.00 %
GPY2       0.00 %
GPY3       0.00 %
GPZ1       50.00 %
GPZ2       30.00 %
GPZ3       40.10 %
P16        1000.00 usec

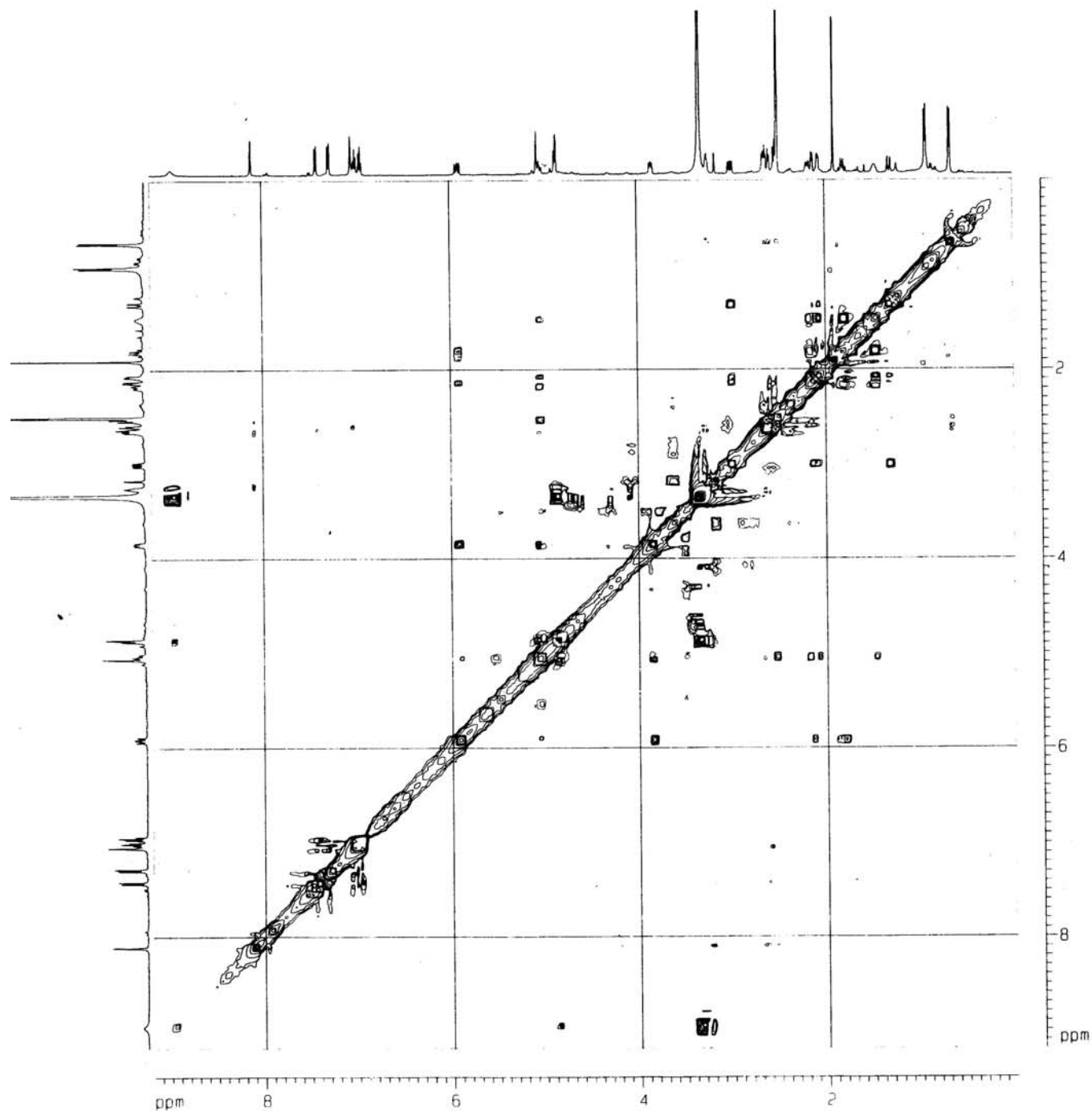
F1 - Acquisition param
ND0         2
TD          256
SF01        125.7716 MHz
FIDRES      117.924530 Hz
SM          240.020 ppm
FNAME       OF

F2 - Processing param
SI          2048
SF          500.1300956 MHz
WDW         GETHC
SSB         0
LB          0.00 Hz
GB          0
PC          1.40

F1 - Processing param
SI          1024
WDW         GETHC
SF          125.7578630 MHz
WDW         GETHC
SSB         0
LB          0.00 Hz
GB          0

2D NMR plot param:
CH2        20.00 cm
CX1         15.00 cm
F2PL0       11.500 ppm
F2BL0       5751.50 Hz
F2PH1       -0.000 ppm
F2H1        -0.00 Hz
F1PL0       215.000 ppm
F1BL0       27037.94 Hz
F1PH1       -0.000 ppm
F1H1        -0.00 Hz
F2PRNCH     0.57500 ppm
F2K2CH      287.57477 Hz/
F1PRNCH     14.33333 ppm
    
```

NOESY spectrum of cytoglobosin A (1)



Current Data Parameters
 NAME en14-14
 EXPNO 8
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20070618
 Time 16.31
 INSTRUM av500
 PROBN 5 mm BBO BB-1H
 PULPROG noesyph
 TD 1024
 SOLVENT DMSO
 NS 16
 DS 8
 SWH 7507.507 Hz
 FIDRES 7.331550 Hz
 AQ 0.0683150 sec
 RG 64
 DM 66.600 usec
 DE 6.00 usec
 TE 301.2 K
 d0 0.00005214 sec
 d1 2.00000000 sec
 d8 0.89999998 sec
 INO 0.0001330 sec
 MCREST 0.00000000 sec
 MCWRR 1.00000000 sec
 STICNT 128

***** CHANNEL f1 *****
 NUC1 1H
 P1 11.40 usec
 PL1 1.00 dB
 SFO1 500.1323022 MHz

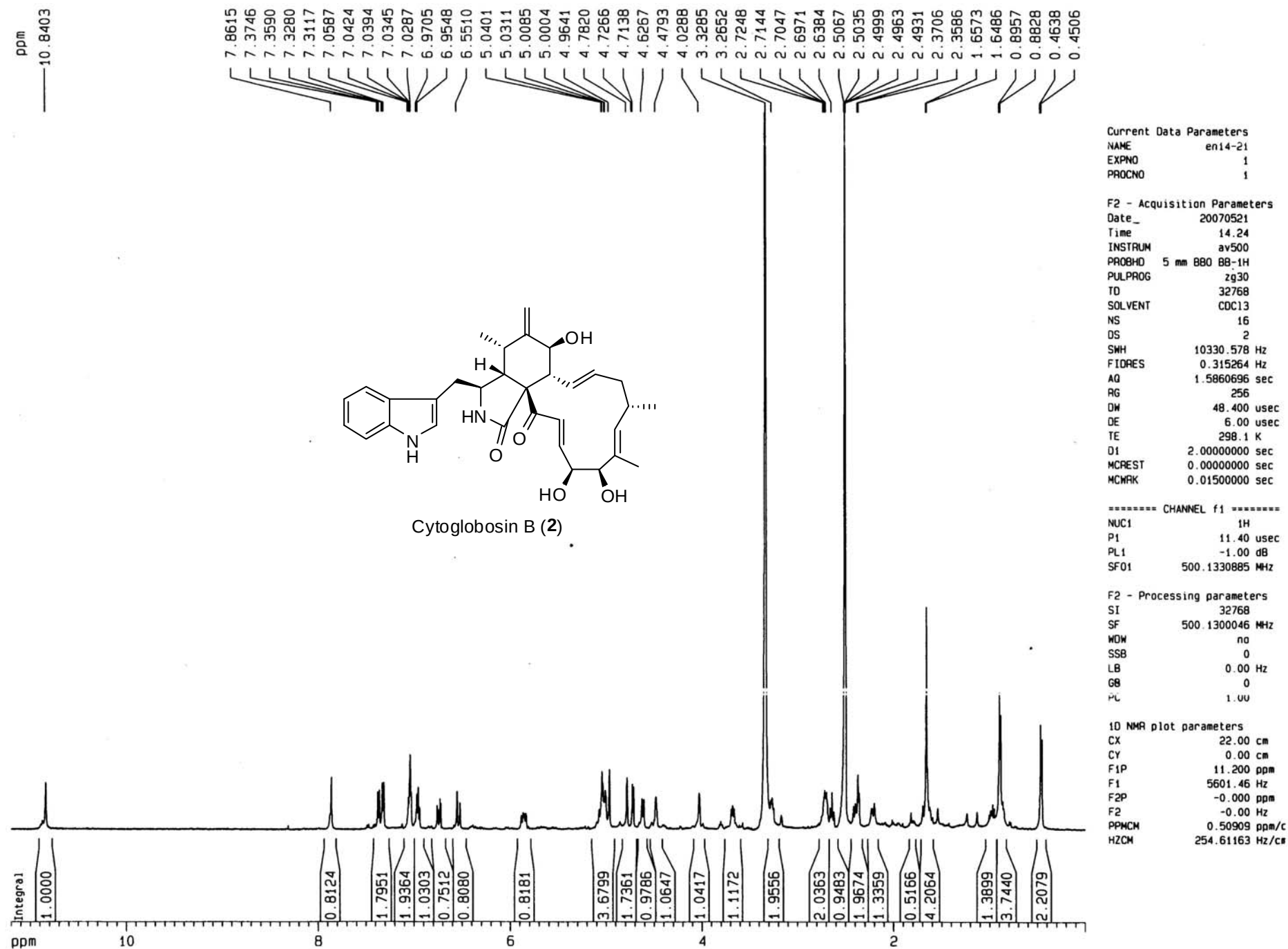
F1 - Acquisition parameters
 MD 1
 TD 29
 SFO1 500.1323 MHz
 FIDRES 258.685364 Hz
 SW 15.000 ppm
 FmMODE States-TPPI

F2 - Processing parameters
 SI 1024
 SF 500.1300056 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0
 PC 1.40

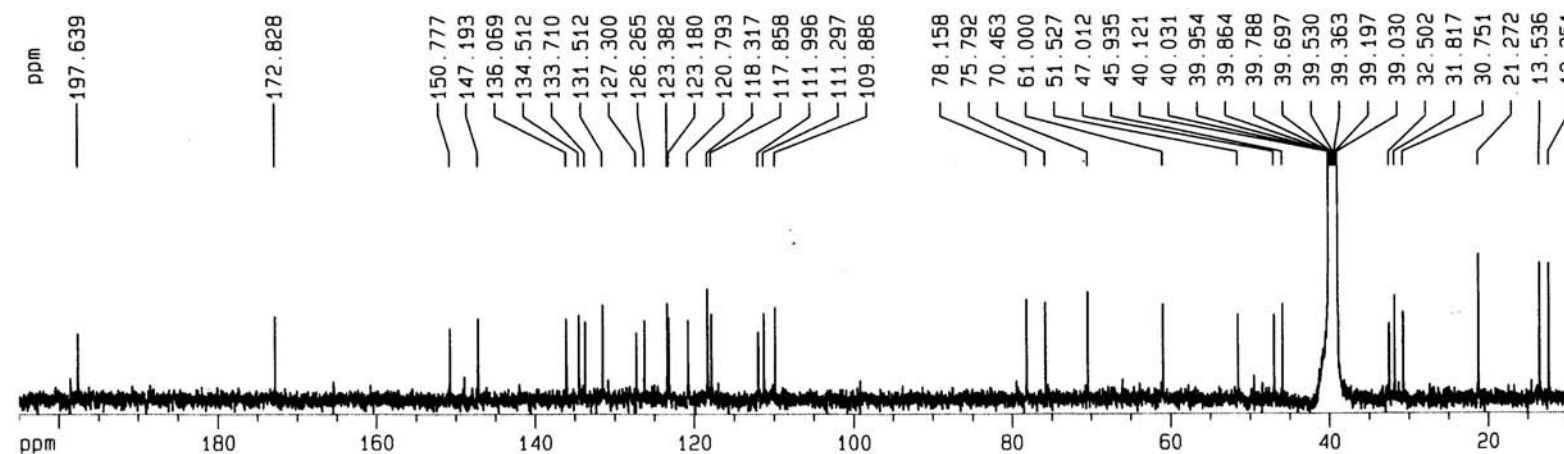
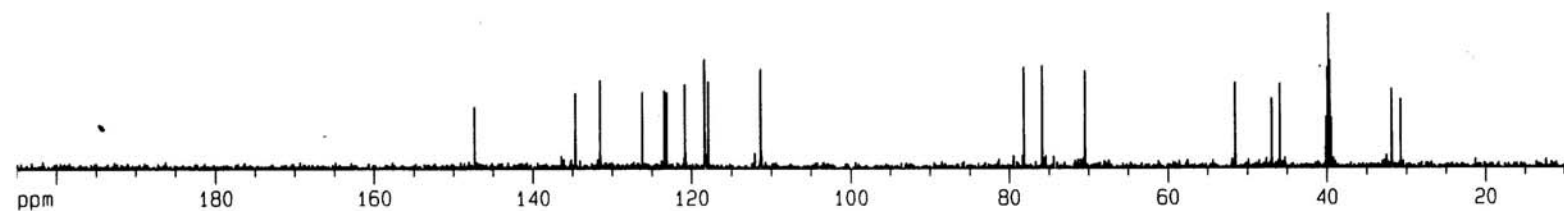
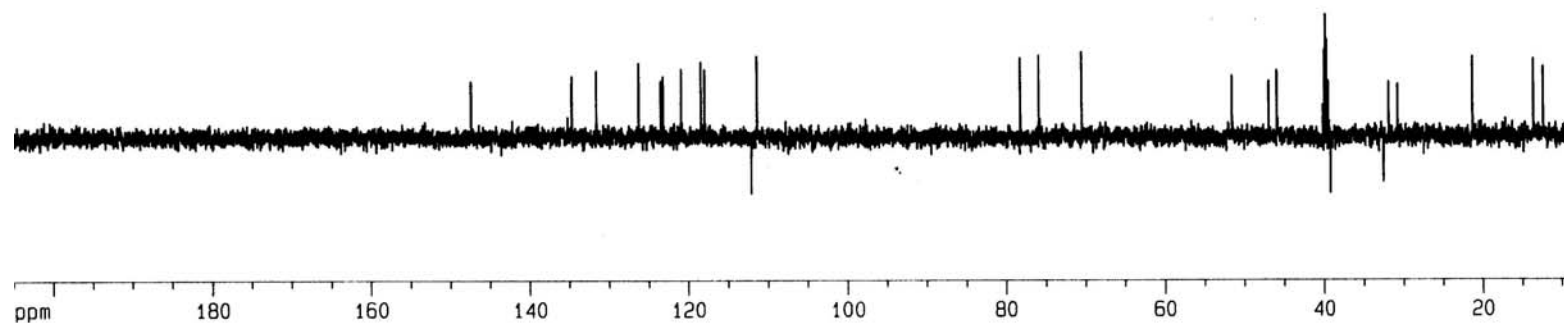
F1 - Processing parameters
 SI 1024
 MC2 States-TPPI
 SF 500.1300056 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0

2D NMR plot parameters
 CX2 15.00 cm
 CX1 15.00 cm
 F2PL0 9.200 ppm
 F2L0 4601.20 Hz
 F2PHI -0.000 ppm
 F2H1 -0.00 Hz
 F2H0 9.200 ppm
 F1L0 4601.20 Hz
 F1PHI -0.000 ppm
 F1H1 -0.00 Hz
 F2PPMCM 0.61333 ppm/cm
 F2HZCM 306.74640 Hz/cm
 F1PPMCM 0.61333 ppm/cm
 F1HZCM 306.74640 Hz/cm

^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of cytoglobosin B (2)



^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cvtoglobosin B (2)



Current Data Parameters
NAME en14-21
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070521
Time 15.05
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDC13
NS 16384
DS 4
SWH 30030.029 Hz
FIDRES 0.458222 Hz
AQ 1.0912410 sec
RG 16384
DW 16.650 usec
DE 6.00 usec
TE 304.0 K
D1 2.00000000 sec
d11 0.03000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

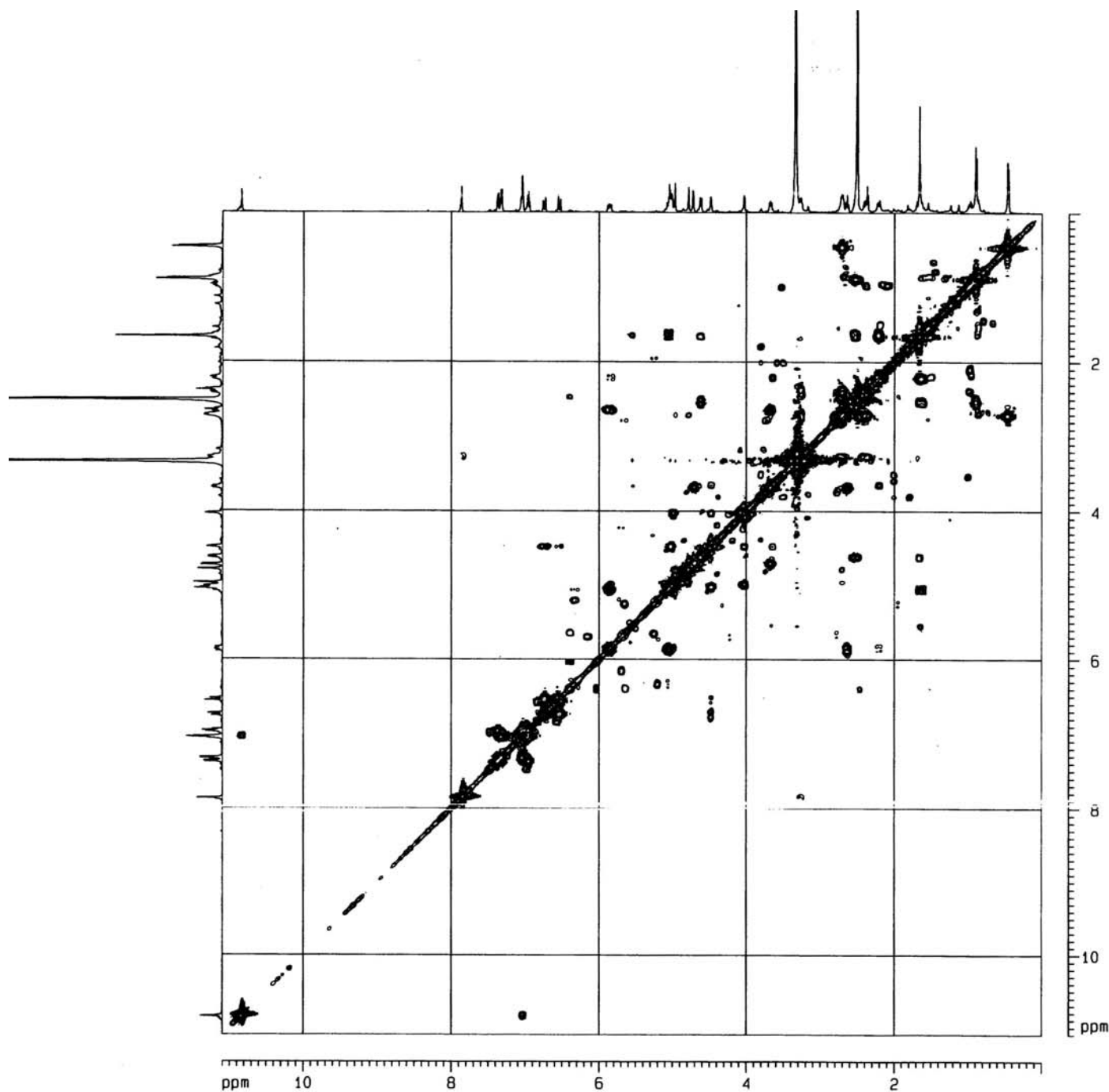
***** CHANNEL f1 *****
NUC1 ^{13}C
P1 11.00 usec
PL1 2.20 dB
SF01 125.7703643 MHz

***** CHANNEL f2 *****
CPDPRG2 waltz16
NUC2 ^1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 16.00 dB
SF02 500.1320005 MHz

F2 - Processing parameters
SI 32768
SF 125.7578612 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 22.00 cm
CY 0.00 cm
F1P 205.000 ppm
F1 25780.36 Hz
F2P 8.000 ppm
F2 1006.06 Hz
PPMCM 8.95455 ppm/c
HZCM 1126.10449 Hz/cm

^1H - ^1H COSY spectrum of cytoglobosin B (2)



```

Current Data Parameters
NAME      en14-21
EXPNO     5
PROCNO    1

F2 - Acquisition Parameters
Date_     20070522
Time      9.32
INSTRUM   av500
PROBHD    5 mm BBO BB-1H
PULPROG   cosygpqf
TD         1024
SOLVENT   DMS-d6
NS         4
DS         8
SWH        6666.667 Hz
FIDRES     6.510417 Hz
AQ         0.0769250 sec
RG         228.1
DM         75.000 usec
DE         6.00 usec
TE         301.6 K
d0         0.00000300 sec
d1         1.48689198 sec
d13        0.00000400 sec
d16        0.00020000 sec
d10        0.00015000 sec
MCREST     0.00000000 sec
MCNPRM     1.48689198 sec

----- CHANNEL f1 -----
NUC1       1H
P0         11.40 usec
P1         11.40 usec
PL1        -1.00 dB
SF01       500.1330069 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        1000.00 usec

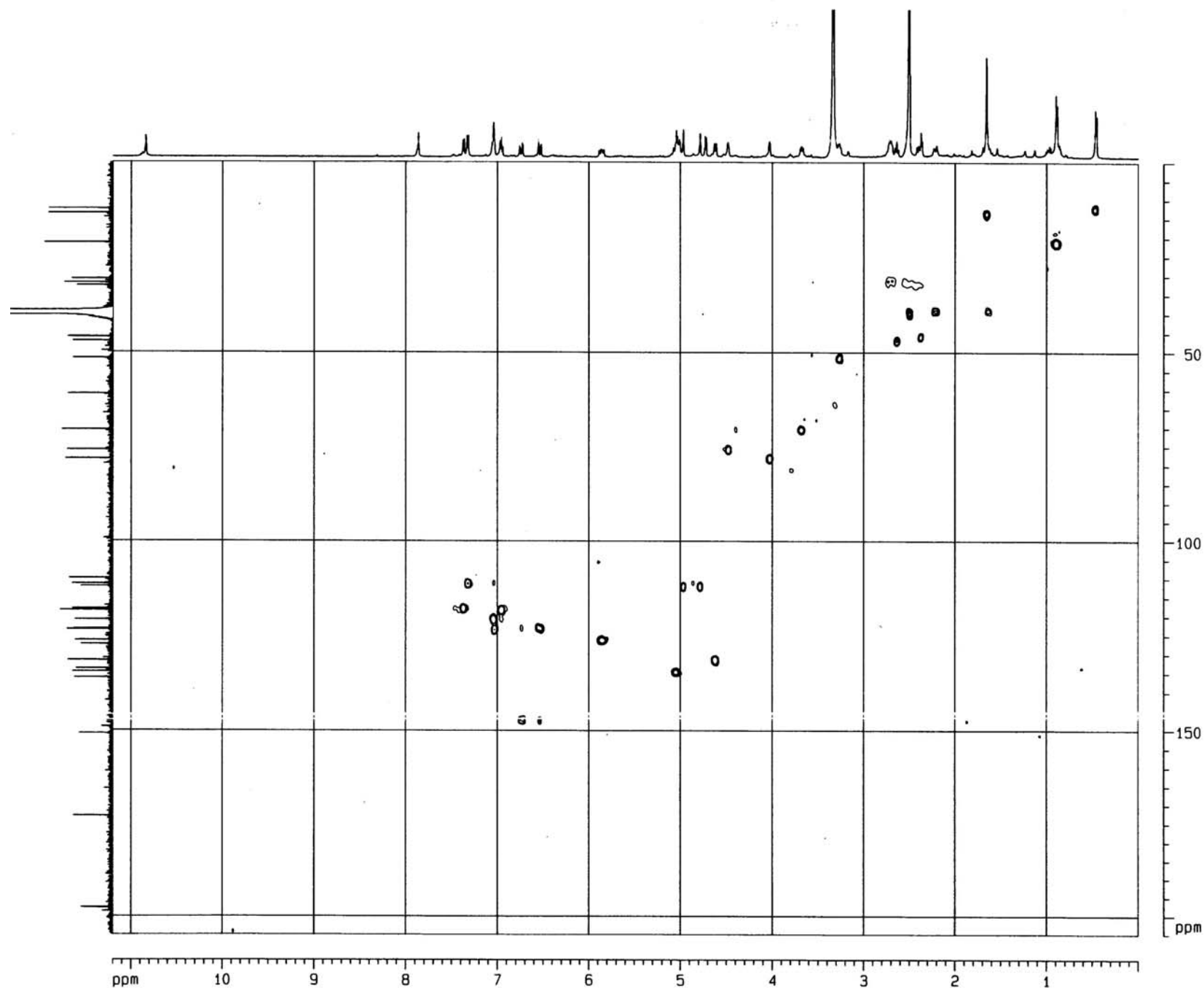
F1 - Acquisition parameters
NO         1
TD         256
SF01       500.133 MHz
FIDRES     26.041666 Hz
SN         13.330 ppm
FIRMODE    GF

F2 - Processing parameters
SI         1024
SF         500.1300046 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0
PC         1.40

F1 - Processing parameters
SI         1024
MC2        GF
SF         500.1300046 MHz
WDW        SINE
SSB        0
LB         0.00 Hz
GB         0

2D NMR plot parameters
CX2        15.00 cm
CX1        15.00 cm
F2PL0      11.100 ppm
F2L0       5551.44 Hz
F2PHI      -0.000 ppm
F2H1       -0.00 Hz
F1PL0      11.100 ppm
F1L0       5551.44 Hz
F1PHI      -0.000 ppm
F1H1       -0.00 Hz
F2PPHOM    0.74000 ppm/cm
F2HZCM     370.09619 Hz/cm
F1PPHOM    0.74000 ppm/cm
    
```

HSQC spectrum of cytoglobosin B (2)



Current Data Parameters
NAME m14-21
EXPNO 6
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070522
Time 10.00
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 1024
SOLVENT CDCl3
NS 8
DS 16
SWH 6060.867 Hz
FIDRES 0.516417 Hz
AQ 0.6789250 sec
RG 16384
DM 75.000 umsec
DE 6.00 umsec
TE 300.7 K
CHST2 145.0000000
D0 0.0000000 sec
D1 1.3000000 sec
d4 0.00172414 sec
d11 0.0300000 sec
d13 0.0000000 sec
d16 0.0000000 sec
d24 0.0008207 sec
DELTA 0.00127880 sec
DELTA1 0.00120000 sec
DELTA2 0.0008207 sec
DELTA3 0.00052414 sec
DHO 0.00001858 sec
HOREST 0.0000000 sec
HOREST 0.2500000 sec
STOCH 126

***** CHANNEL f1 *****
NUC1 1H
P1 11.40 umsec
p2 22.00 umsec
P2B 1000.00 umsec
PL1 -1.00 dB
SFO1 500.130000 MHz

***** CHANNEL f2 *****
CPDPRG2 zgpg30
NUC2 13C
P3 11.00 umsec
p4 22.00 umsec
PCPD2 70.00 umsec
PL2 2.00 dB
PL12 18.00 dB
SFO2 125.7716224 MHz

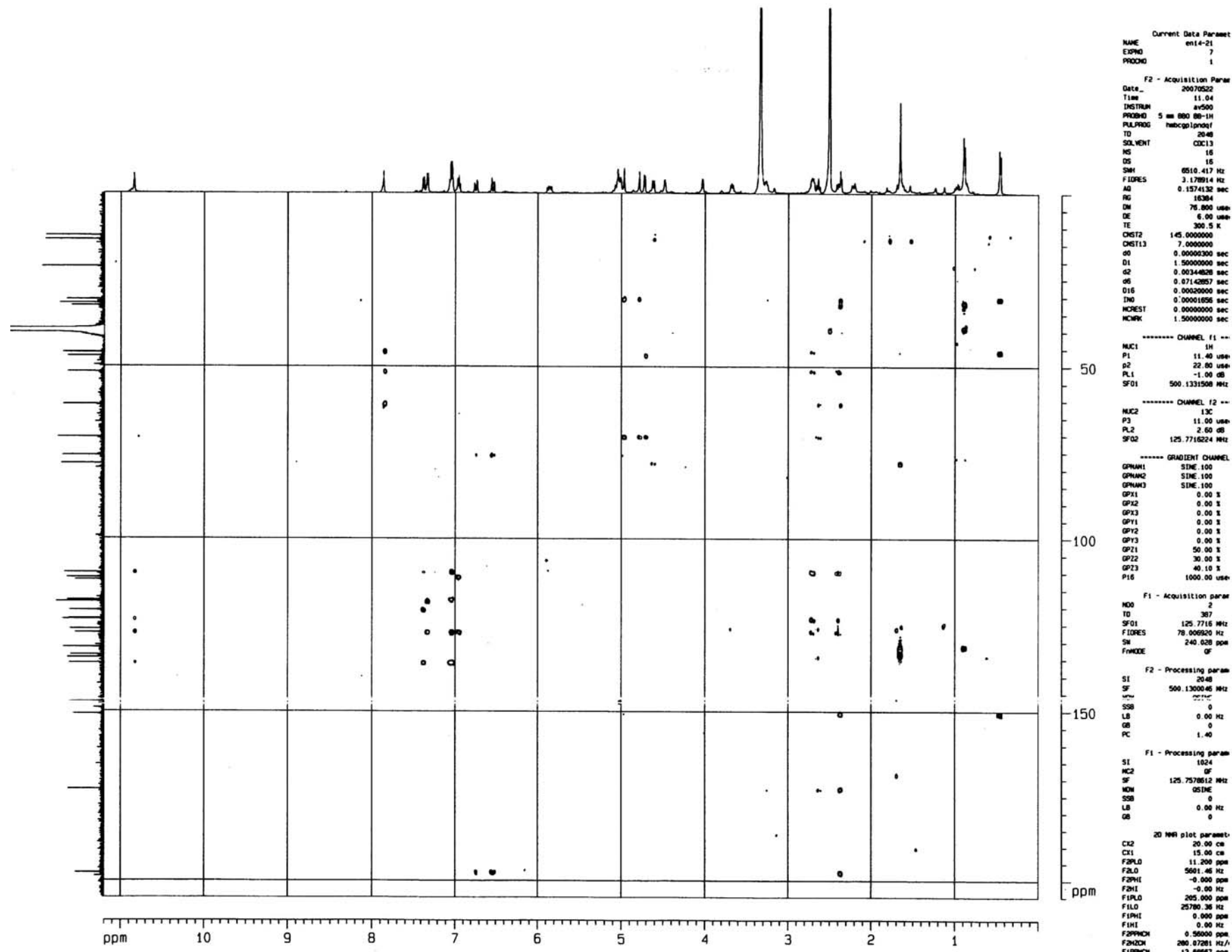
***** GRADIENT CHANNEL *****
GPRAM1 SINE 100
GPRAM2 SINE 100
GPRAM3 SINE 100
GPRAM4 SINE 100
GPX1 0.00 %
GPX2 0.00 %
GPX3 0.00 %
GPX4 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPY3 0.00 %
GPY4 0.00 %
GPZ1 80.00 %
GPZ2 20.10 %
GPZ3 11.00 %
GPZ4 -5.00 %
P16 1000.00 umsec
P19 600.00 umsec

F1 - Acquisition parameters
NO 2
TD 1024
SFO1 125.7716 MHz
FIDRES 180.349868 Hz
SR 2.40 528 ppm
F2 - Processing parameters
SI 1024
SF 500.1300046 MHz
WDW 0.50 sec
SSB 2
LB 0.00 Hz
GB 0
PC 1.40

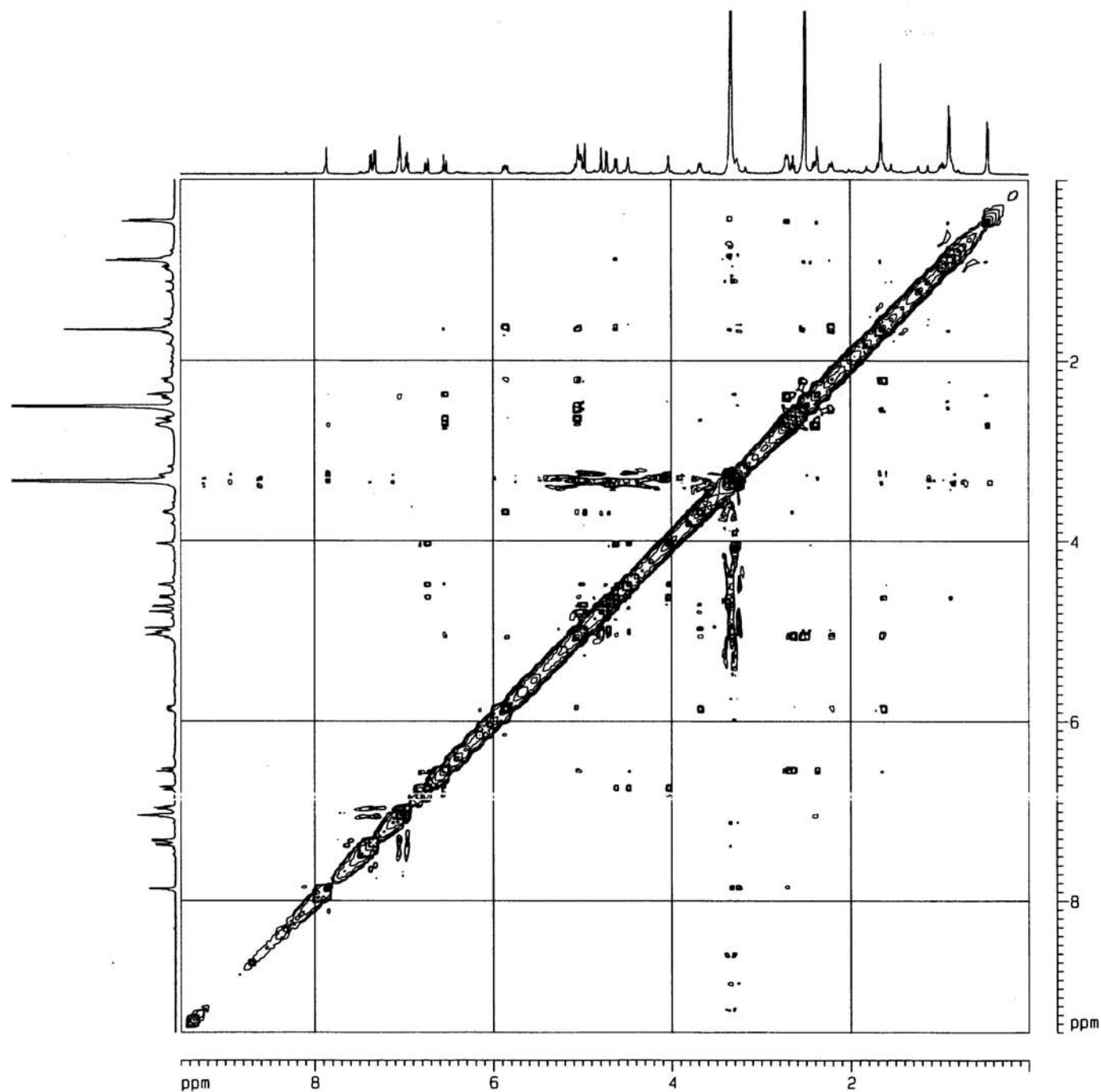
F1 - Processing parameters
SI 1024
HC2 echo-antisymmetric
SF 125.771612 MHz
WDW 0.50 sec
SSB 2
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX 20.00 cm
CX1 15.00 cm
F2PL0 11.200 ppm
F2L0 5601.46 Hz
F2PH1 -0.000 ppm
F2H1 -0.00 Hz
F1PL0 200.000 ppm
F1L0 25780.36 Hz
F1PH1 0.000 ppm
F1H1 0.00 Hz
F2PCDCI 0.0000 ppm/s
F2DCDCI 280.07361 Hz/cm

HMBC spectrum of cytoglobosin B (2)



NOESY spectrum of cytoglobosin B (2)



Current Data Parameters
NAME en14-21
EXPNO 8
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070619
Time 8.32
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG noesyph
TD 1024
SOLVENT CDCl3
NS 16
DS 8
SWH 5122.951 Hz
FIDRES 5.002882 Hz
AQ 0.1000900 sec
RG 64
DM 97.600 usec
DE 6.00 usec
TE 301.1 K
d0 0.0008309 sec
D1 2.00000000 sec
DB 0.89999998 sec
INO 0.00019520 sec
MCREST 0.00000000 sec
MCMRK 1.00000000 sec
STICNT 128

----- CHANNEL f1 -----
NUC1 1H
P1 11.40 usec
PL1 -1.00 dB
SF01 500.1323022 MHz

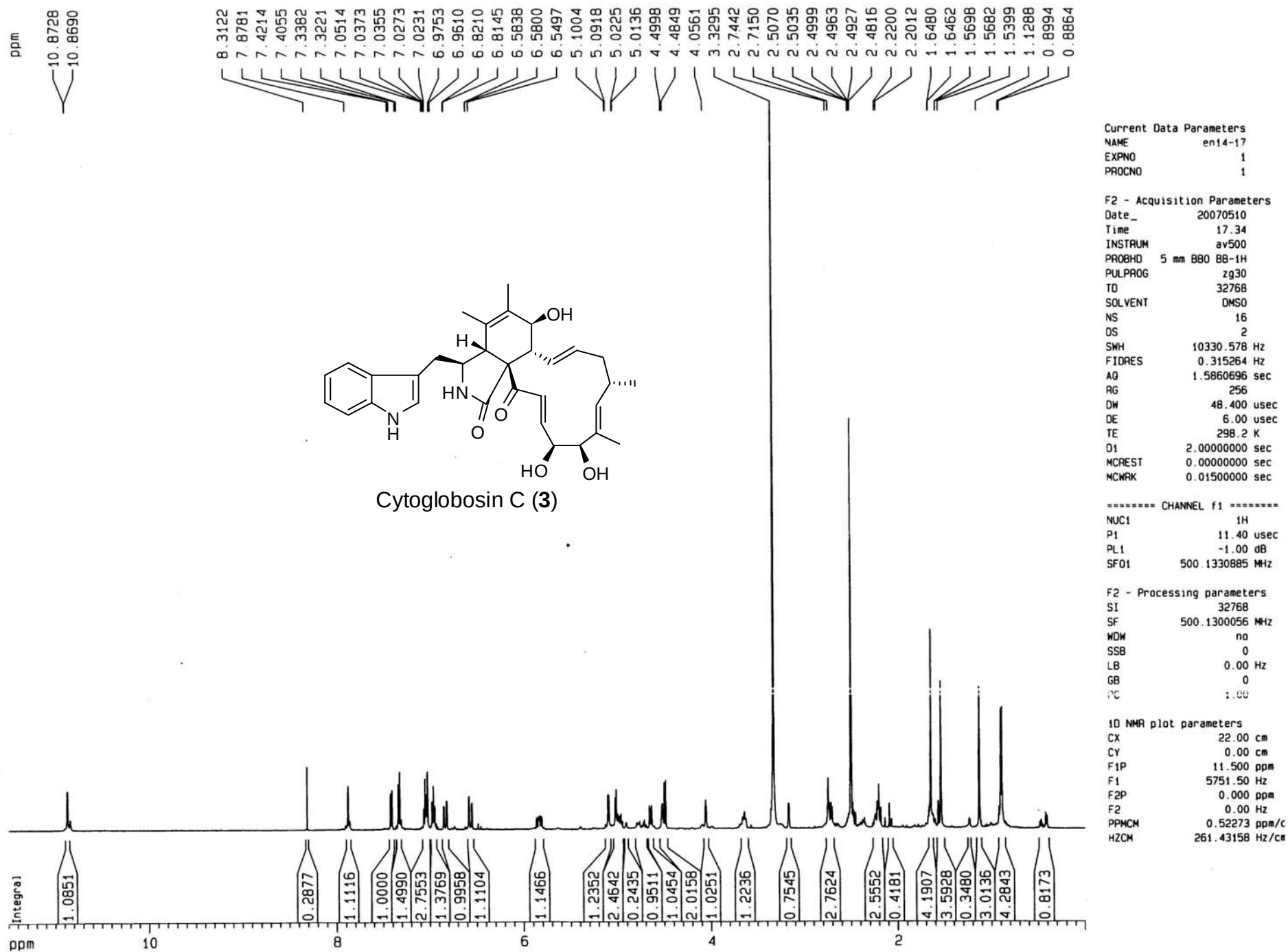
F1 - Acquisition parameters
ND0 1
TD 129
SF01 500.1323 MHz
FIDRES 39.712795 Hz
SW 10.243 ppm
FMODE States-TPPI

F2 - Processing parameters
SI 1024
SF 500.1300046 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.40

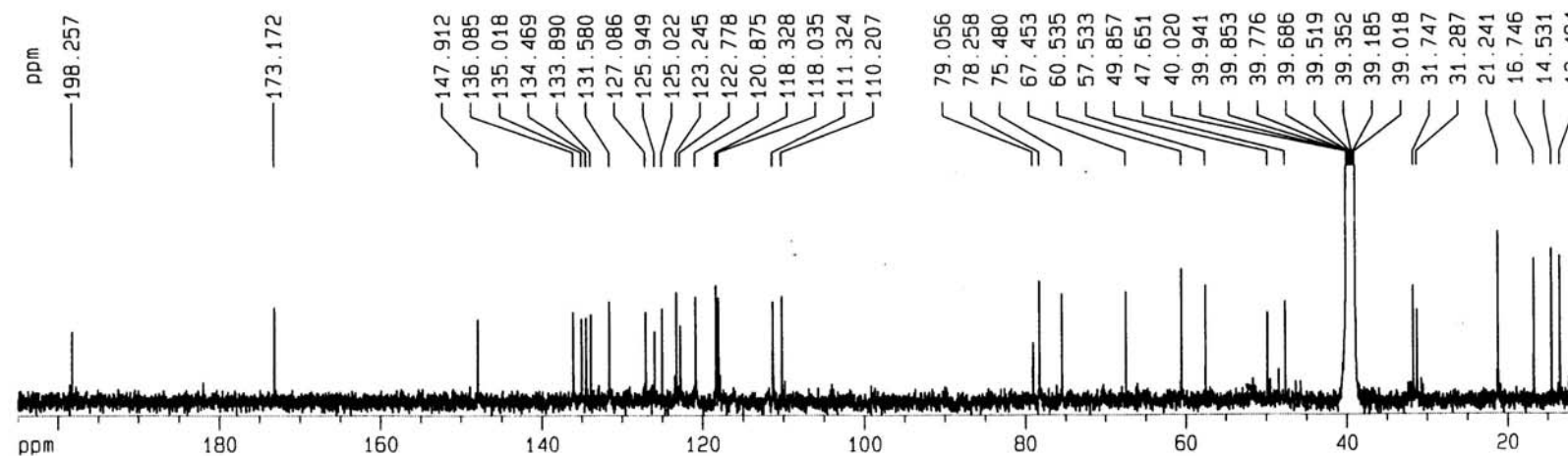
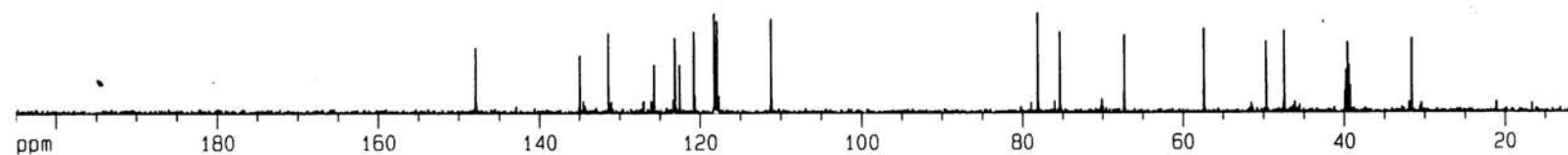
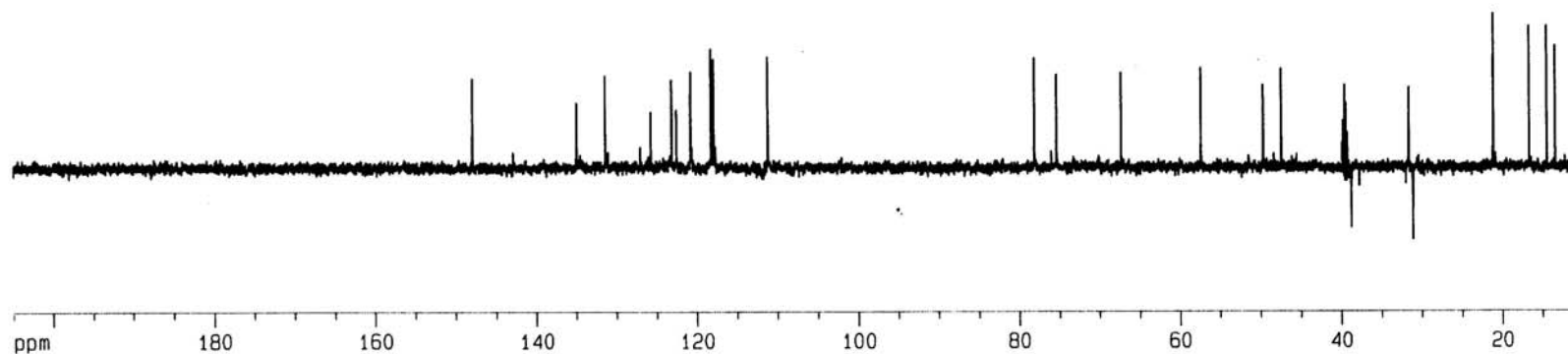
F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 500.1300046 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PL0 9.500 ppm
F2L0 4751.23 Hz
F2PHI 0.000 ppm
F2HI 0.00 Hz
F1PL0 9.500 ppm
F1L0 4751.23 Hz
F1PHI 0.000 ppm
F1HI 0.00 Hz
F2PPMCH 0.63333 ppm/cm
F2HZCH 316.74899 Hz/cm
F1PPMCH 0.63333 ppm/cm
F1HZCH 316.74899 Hz/cm

^1H NMR (500 MHz, DMSO- d_6) spectrum of cytoglobosin C (3)



^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin C (**3**)



Current Data Parameters
NAME en14-17
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070511
Time 2.40
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG zgdc30
TD 65536
SOLVENT CDC13
NS 10240
DS 4
SWH 30030.029 Hz
FIDRES 0.458222 Hz
AQ 1.0912410 sec
RG 16384
DW 16.650 usec
DE 6.00 usec
TE 304.3 K
D1 2.00000000 sec
d11 0.03000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

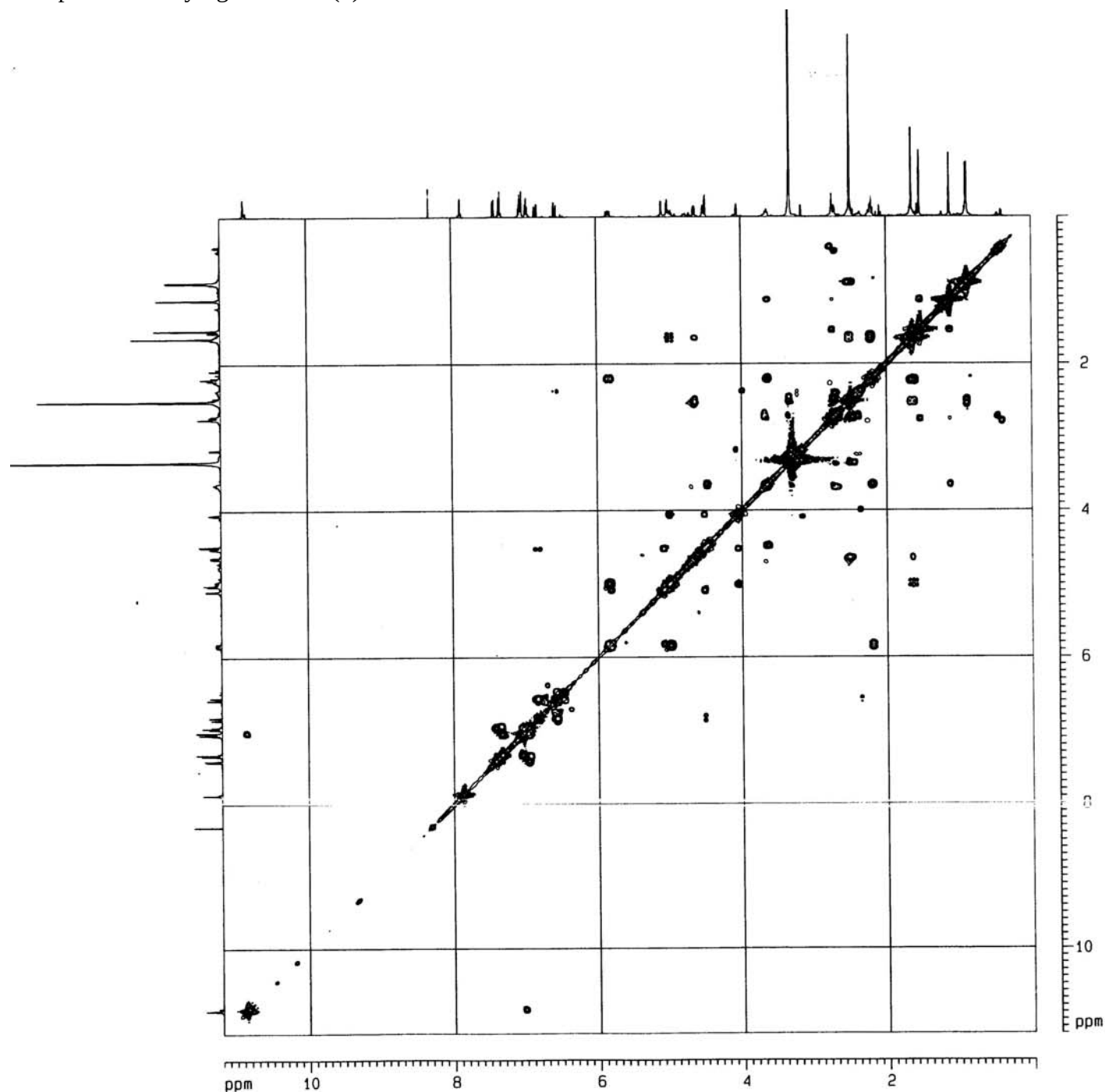
===== CHANNEL f1 =====
NUC1 ^{13}C
P1 11.00 usec
PL1 2.20 dB
SF01 125.7703643 MHz

===== CHANNEL f2 =====
CPOPRG2 waltz16
NUC2 ^1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 16.00 dB
SF02 500.1320005 MHz

F2 - Processing parameters
SI 32768
SF 125.7578630 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 22.00 cm
CY 0.00 cm
F1P 205.000 ppm
F1 25780.36 Hz
F2P 10.000 ppm
F2 1257.58 Hz
PPMCM 8.86364 ppm/c
HZCM 1114.67200 Hz/c

^1H - ^1H COSY spectrum of cytoglobosin C (3)



Current Data Parameters
NAME en14-17
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070511
Time 9.50
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG cosygpc1
TD 1024
SOLVENT CDCl3
NS 4
DS 8
SWH 6666.667 Hz
FIDRES 6.510417 Hz
AQ 0.0769250 sec
RG 228.1
DM 75.000 usec
DE 6.00 usec
TE 300.8 K
d0 0.0000300 sec
d1 1.48689198 sec
d13 0.00000400 sec
d16 0.00020000 sec
IN0 0.00015000 sec
MCREST 0.00000000 sec
MCWRT 1.48689198 sec

----- CHANNEL f1 -----
NUC1 1H
P0 11.40 usec
P1 11.40 usec
PL1 -1.00 dB
SFO1 500.1330069 MHz

----- GRADIENT CHANNEL -----
GPRAM1 SINE.100
GPRAM2 SINE.100
GPX1 0.00 %
GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 10.00 %
GPZ2 10.00 %
P16 1000.00 usec

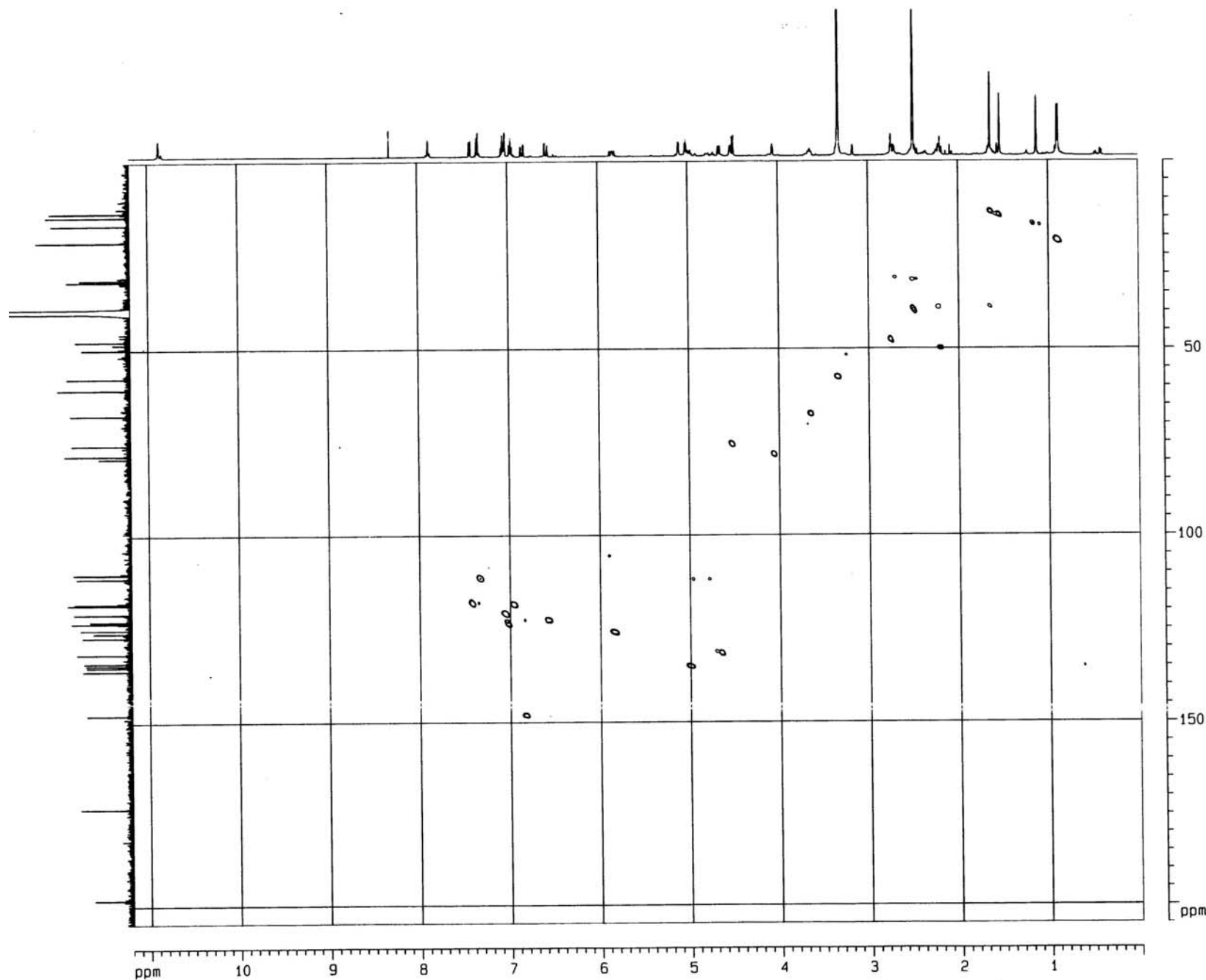
F1 - Acquisition parameters
ND0 1
TD 256
SFO1 500.133 MHz
FIDRES 26.041666 Hz
SW 13.330 ppm
Fnm000 0F

F2 - Processing parameters
SI 1024
SF 500.1300056 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.00

F1 - Processing parameters
SI 1024
MC2 0F
SF 500.1300056 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2P0 11.200 ppm
F2L0 5601.46 Hz
F2PHI -0.000 ppm
F2HI -0.00 Hz
F1P0 11.200 ppm
F1L0 5601.46 Hz
F1PHI -0.000 ppm
F1HI -0.00 Hz
F2PPMCH 0.74667 ppm/cm
F2HZCM 373.43039 Hz/cm
F1PPMCH 0.74667 ppm/cm
F1HZCM 373.43039 Hz/cm

HSQC spectrum of cytoglobosin C (3)



Current Data Parameters

NAME: en14-17
EXPNO: 6
PROCNO: 1

F2 - Acquisition Parameters

Date_: 20070511
Time: 10:18
INSTRUM: av500
PROBHD: 5 mm BBO BB-1H
PULPROG: zgpg30
TD: 1024
SOLVENT: CDCl3
NS: 8
DS: 16
SWH: 8606.867 Hz
FIDRES: 6.510417 Hz
AQ: 0.0769250 sec
RG: 16364
OW: 75.000 usec
DE: 6.00 usec
TE: 298.2 K
CH212: 145.0000000
d0: 0.0000330 sec
d1: 1.5000000 sec
d4: 0.00172414 sec
d11: 0.0300000 sec
d13: 0.0000400 sec
d16: 0.0002000 sec
d24: 0.0008207 sec
DELTA: 0.00127880 sec
DELTA1: 0.00128800 sec
DELTA2: 0.0008207 sec
DELTA3: 0.00052414 sec
IN0: 0.0001656 sec
NOREST: 0.0000000 sec
NCPH: 0.2500051 sec
STICK: 128

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

NUC1: 1H
P1: 11.40 usec
p2: 22.80 usec
P28: 1000.00 usec
PL1: -1.00 dB
SFO1: 500.1300000 MHz

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

CPDPRG2: gprb
NUC2: 13C
P3: 11.00 usec
p4: 22.00 usec
PCPD2: 70.00 usec
PL2: 2.50 dB
PL12: 18.50 dB
SFO2: 125.7716224 MHz

***** GRADIENT CHANNEL *****

OPH1: SINE 100
OPH2: SINE 100
OPH3: SINE 100
OPH4: SINE 100
OP1: 0.00 %
OP2: 0.00 %
OP3: 0.00 %
OP4: 0.00 %
OP1: 0.00 %
OP2: 0.00 %
OP3: 0.00 %
OP4: 0.00 %
OP1: 80.00 %
OP2: 20.10 %
OP3: 11.00 %
OP4: -5.00 %
P16: 1000.00 usec
P19: 600.00 usec

F1 - Acquisition parameters

MD: 2
TD: 256
SFO1: 125.7716 MHz
FIDRES: 117.524530 Hz
SW: 240.028 ppm
FWD: Echo-anti-echo

F2 - Processing parameters

SF: 1024
SF: 500.1300000 MHz
WDW: EM
SSB: 2
LB: 0.00 Hz
GB: 0
PC: 1.40

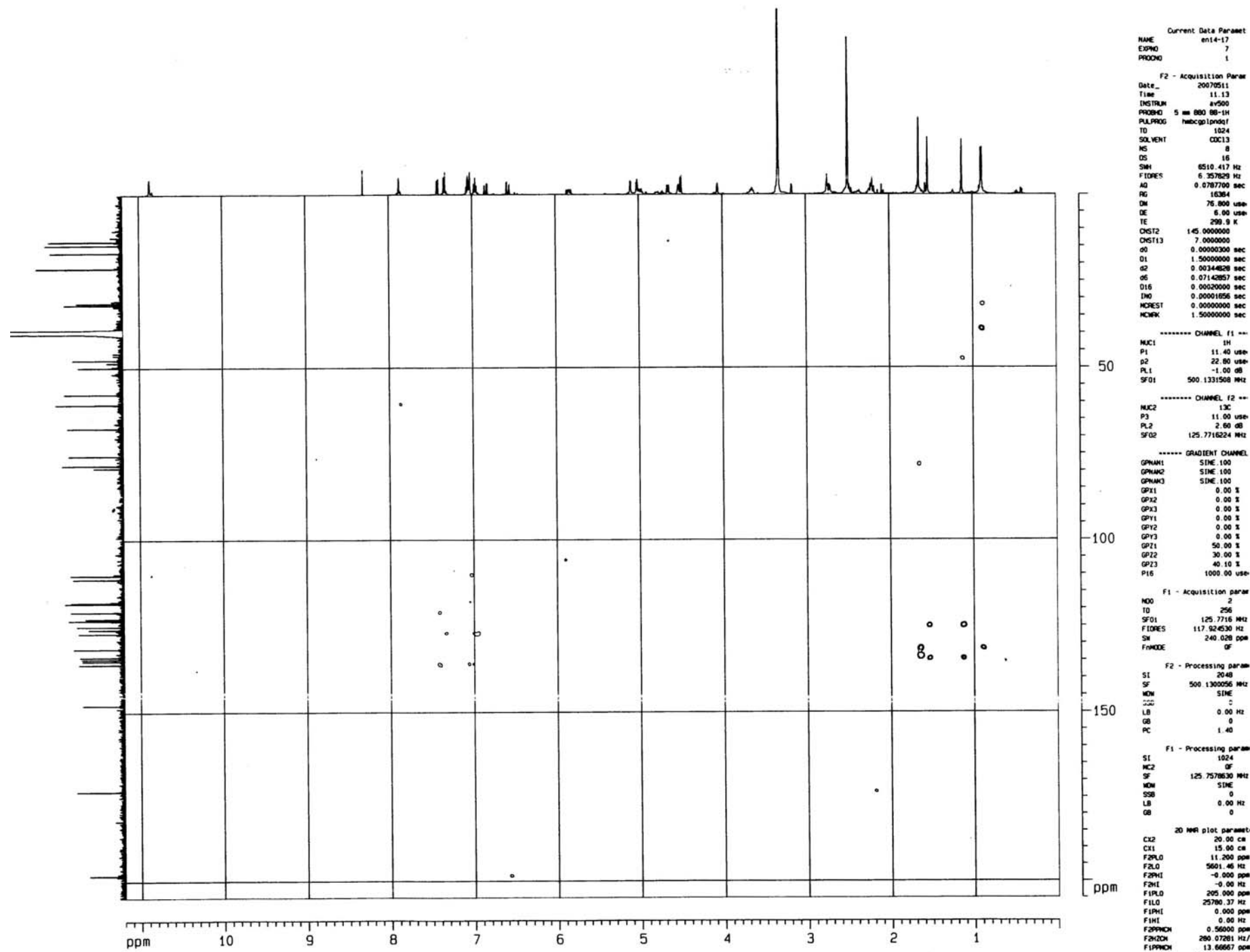
F1 - Processing parameters

SF: 1024
WDW: Echo-anti-echo
SF: 125.7716224 MHz
WDW: EM
SSB: 2
LB: 0.00 Hz
GB: 0

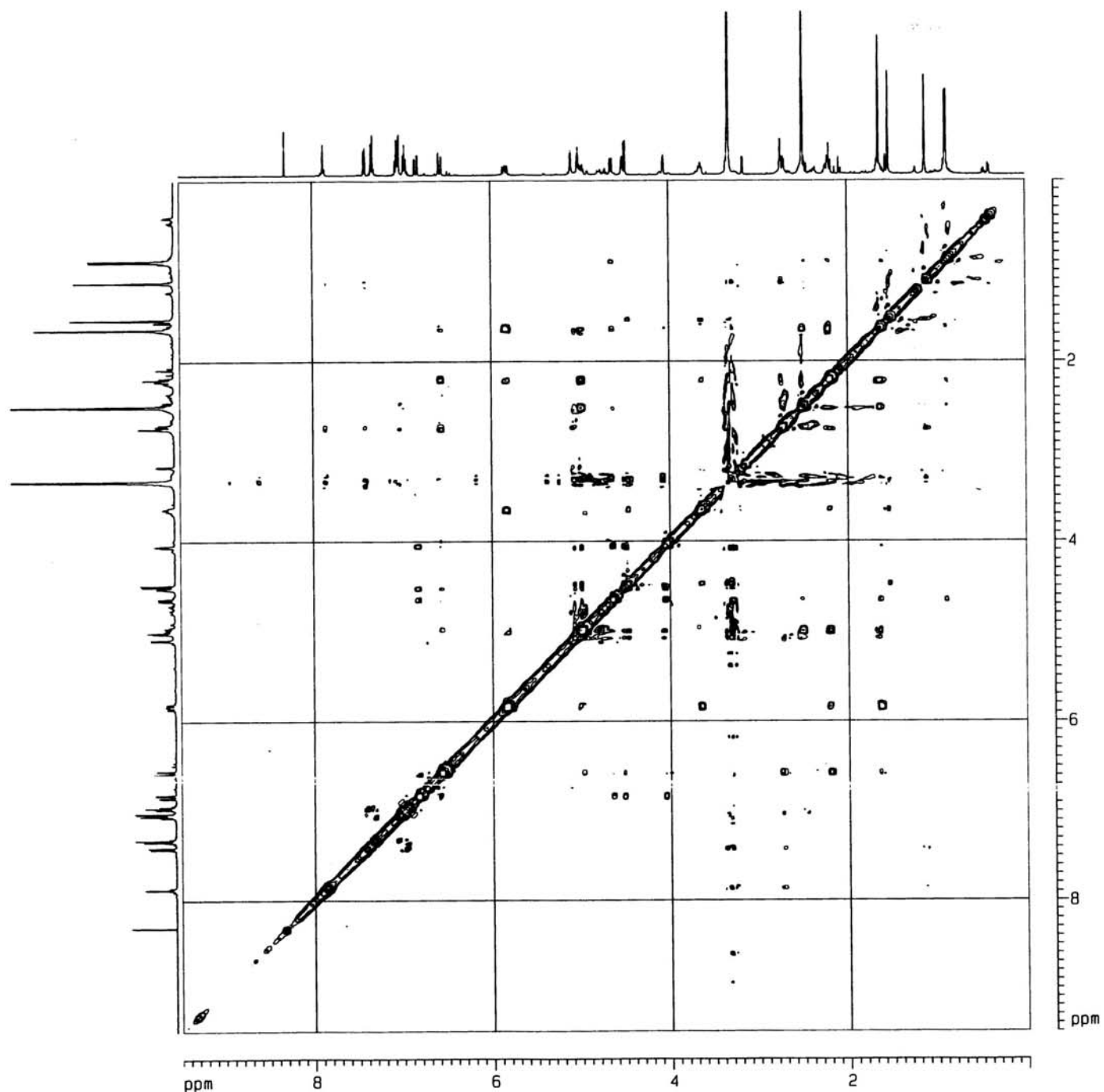
2D NMR plot parameters

CU: 20.00 cm
CU1: 15.00 cm
F2P0: 11.200 ppm
F2L0: 5601.46 Hz
F2PH: -0.000 ppm
F2H1: -0.00 Hz
F2L1: 205.000 ppm
F2H0: 25780.37 Hz
F2L1: 0.000 ppm
F2H1: 0.00 Hz
F2PHCH: 0.58000 ppm/s
F2H2CH: 280.07281 Hz/s
F2PHCH: 13.88887 ppm/s
F2H2CH: 1718.89952 Hz/s

HMBC spectrum of cytoglobosin C (3)



NOESY spectrum of cytoglobosin C (3)



Current Data Parameters
 NAME en14-17
 EXPNO 8
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20070619
 Time 10.22
 INSTRUM av500
 PROBHD 5 mm BBO BB-1H
 PULPROG noesyph
 TD 1024
 SOLVENT DMSO
 NS 16
 DS 8
 SWH 5122.951 Hz
 FIDRES 5.002882 Hz
 AQ 0.1000900 sec
 RG 64
 DW 97.600 usec
 DE 6.00 usec
 TE 301.3 K
 d0 0.0008309 sec
 D1 2.0000000 sec
 D8 0.89999998 sec
 IN0 0.0019520 sec
 MCREST 0.0000000 sec
 MCNRAK 1.0000000 sec
 STICNT 128

----- CHANNEL f1 -----
 NUC1 1H
 P1 11.40 usec
 PL1 -1.00 dB
 SF01 500.1323022 MHz

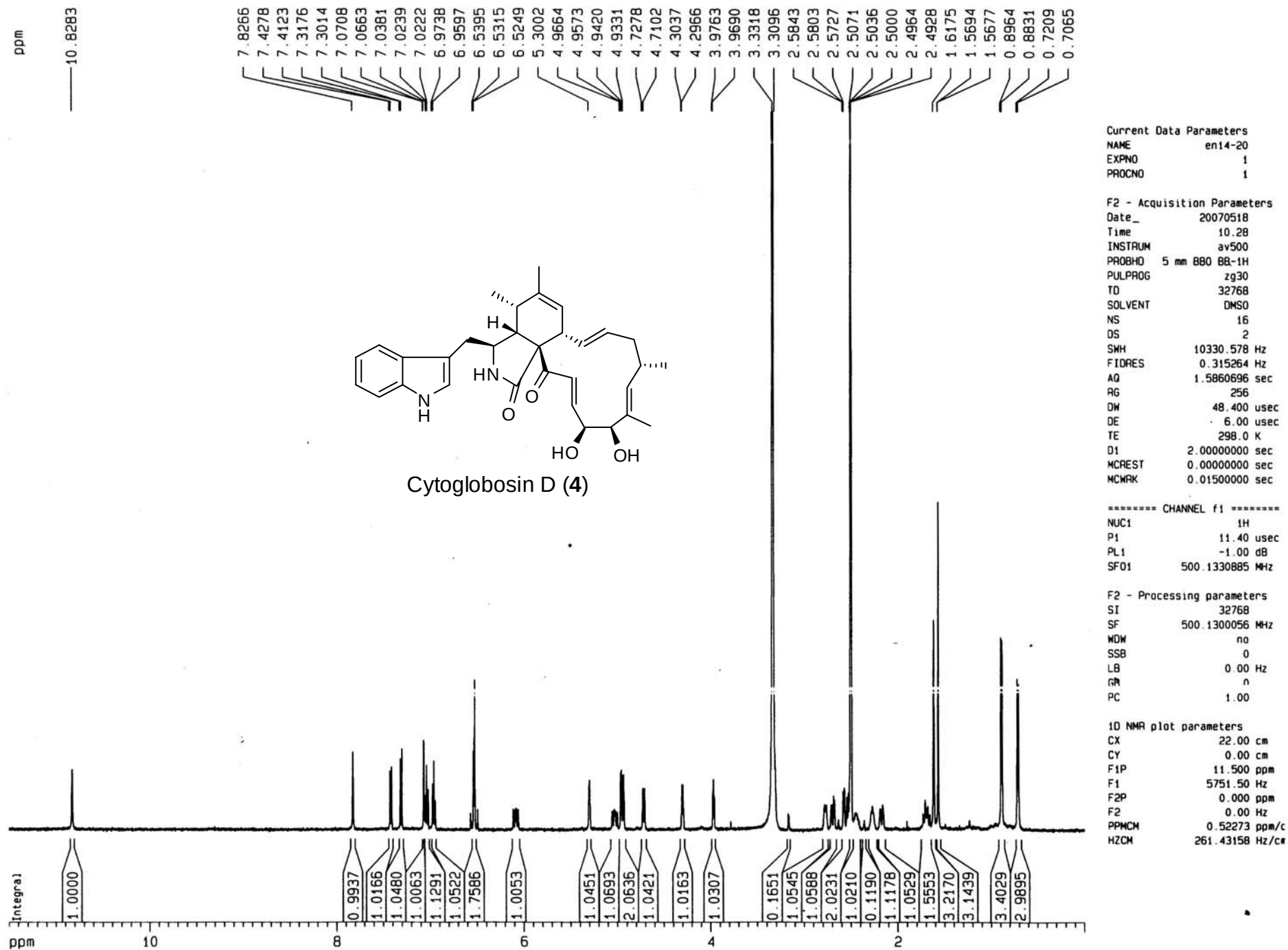
F1 - Acquisition parameters
 ND0 1
 TD 235
 SF01 500.1323 MHz
 FIDRES 21.799791 Hz
 SW 10.243 ppm
 FnmODE States-TPPI

F2 - Processing parameters
 SI 1024
 SF 500.1300056 MHz
 MDW OSINE
 SSB 2
 LB 0.00 Hz
 GB 0
 PC 1.40

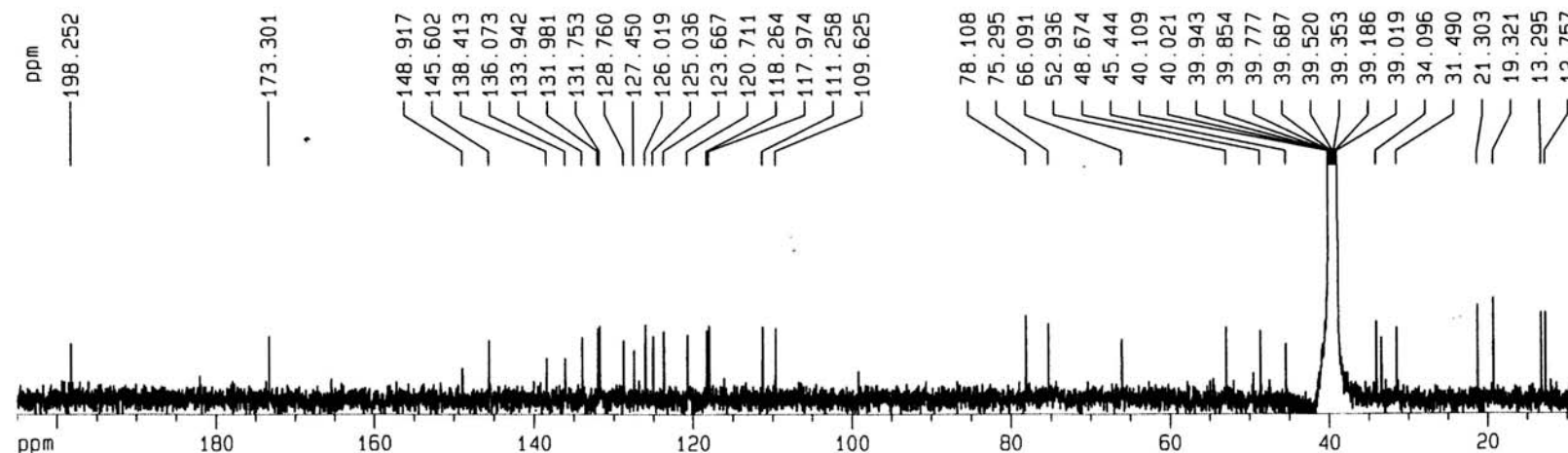
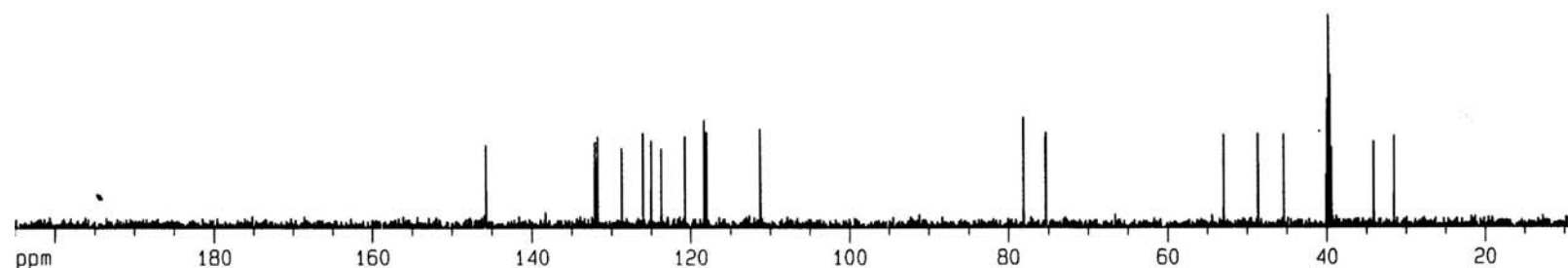
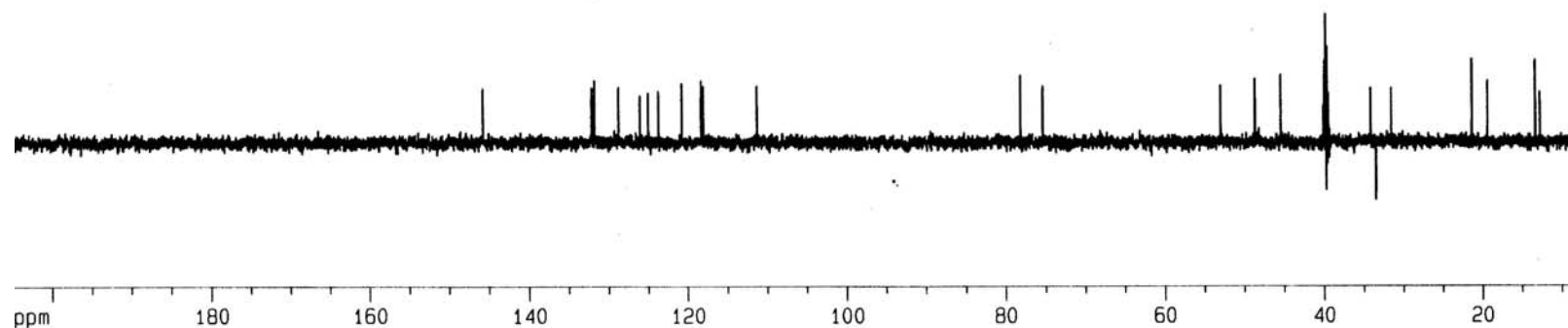
F1 - Processing parameters
 SI 1024
 MC2 States-TPPI
 SF 500.1300056 MHz
 MDW OSINE
 SSB 2
 LB 0.00 Hz
 GB 0

2D NMR plot parameters
 CX2 15.00 cm
 CX1 15.00 cm
 F2PL0 9.500 ppm
 F2L0 4751.23 Hz
 F2PHI 0.000 ppm
 F2HI 0.00 Hz
 F1PL0 9.500 ppm
 F1L0 4751.23 Hz
 F1PHI 0.000 ppm
 F1HI 0.00 Hz
 F2PPHCH 0.63333 ppm/cm
 F2HZCH 316.74899 Hz/cm
 F1PPHCH 0.63333 ppm/cm
 F1HZCH 316.74899 Hz/cm

^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of cytoglobosin D (4)



^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin D (**4**)



Current Data Parameters
NAME en14-20
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070518
Time 10.37
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16384
DS 4
SWH 30030.029 Hz
FIDRES 0.458222 Hz
AQ 1.0912410 sec
RG 16384
DW 16.650 usec
DE 6.00 usec
TE 302.8 K
D1 2.00000000 sec
d11 0.03000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

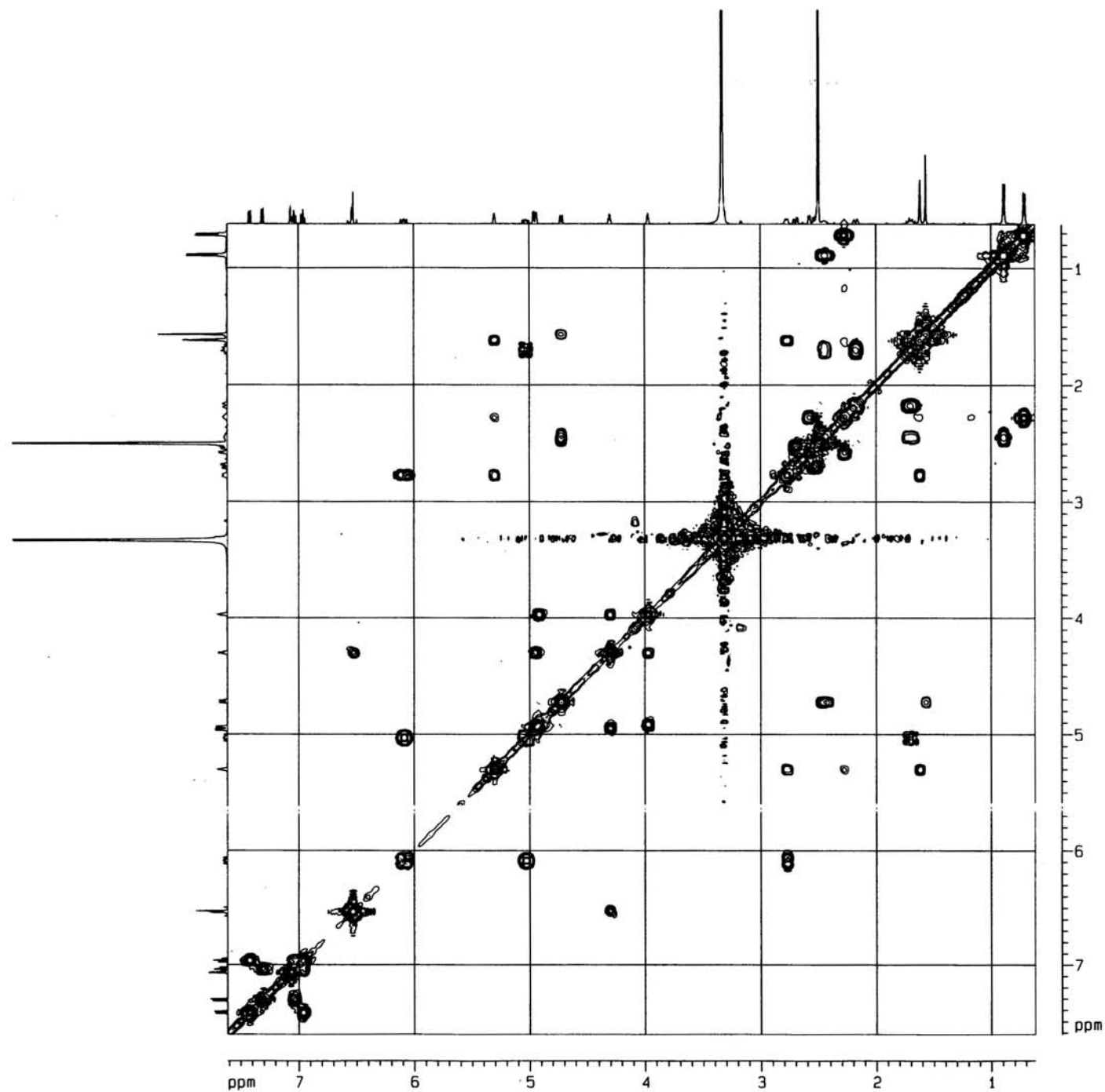
===== CHANNEL f1 =====
NUC1 13C
P1 11.00 usec
PL1 2.20 dB
SF01 125.7703643 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 16.00 dB
SF02 500.1320005 MHz

F2 - Processing parameters
SI 32768
SF 125.7578612 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 22.00 cm
CY 0.00 cm
F1P 205.000 ppm
F1 25780.36 Hz
F2P 8.000 ppm
F2 1006.06 Hz
PPMCM 8.95455 ppm/c
HZCM 1126.10449 Hz/cm

^1H - ^1H COSY spectrum of cytoglobosin D (4)



```

Current Data Parameters
NAME          en14-20
EXPNO         5
PROCNO        1

F2 - Acquisition Parameters
Date_         20070519
Time          11.39
INSTRUM       av500
PROBHD        5 mm BBO BB-1H
PULPROG       cosyppg
TD            1024
SOLVENT       CDCl3
NS            4
DS            8
SWH           6666.667 Hz
FIDRES        6.510417 Hz
AQ            0.0769250 sec
RG            228.1
OW            75.000 usec
DE            6.00 usec
TE            301.8 K
d0            0.00000300 sec
d1            1.48689198 sec
d13           0.00000400 sec
d16           0.00020000 sec
dno           0.00015000 sec
MCREST        0.00000000 sec
MCMRK         1.48689198 sec

----- CHANNEL f1 -----
NUC1          1H
P0            11.40 usec
P1            11.40 usec
PL1           -1.00 dB
SF01          500.1330069 MHz

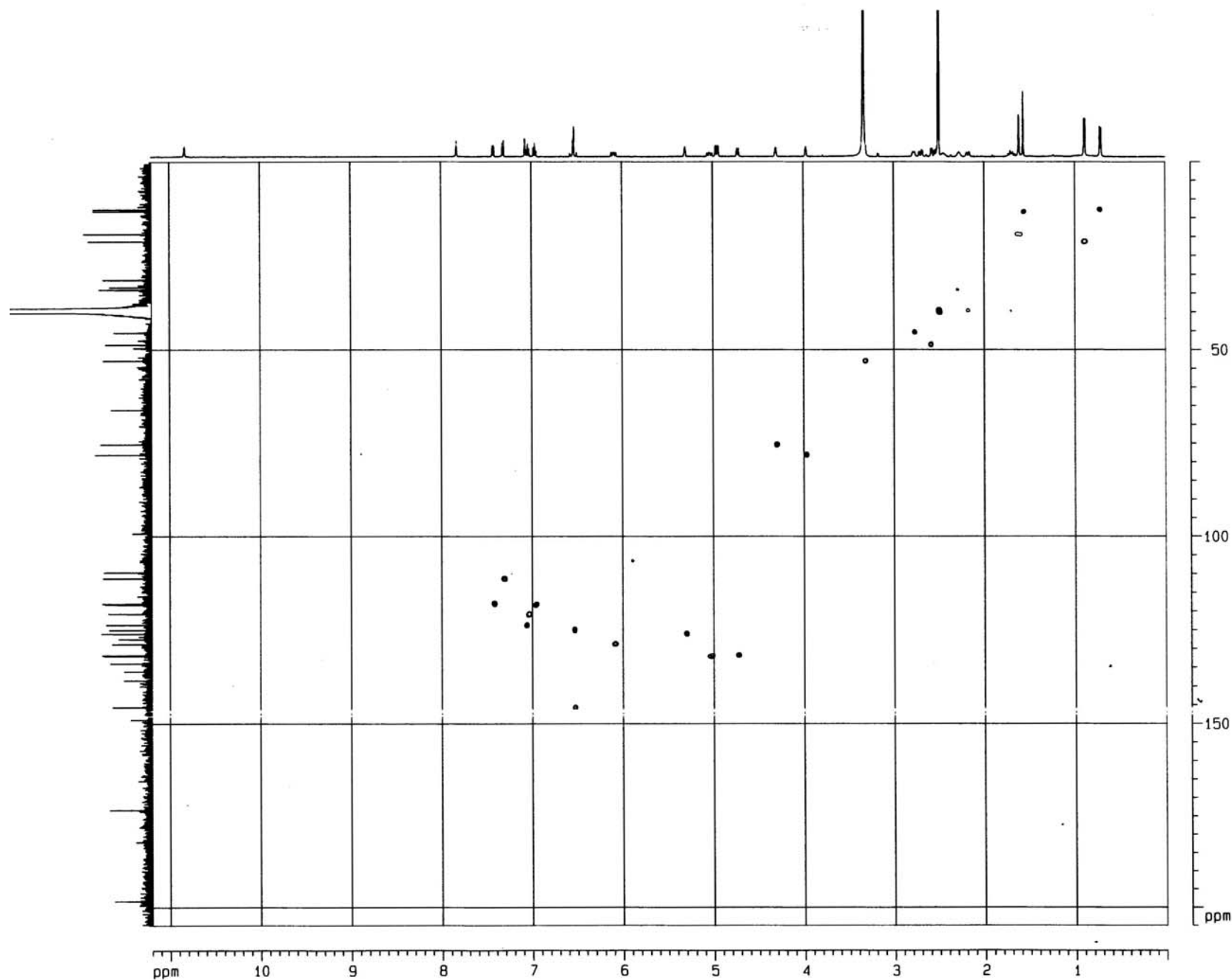
----- GRADIENT CHANNEL -----
GPMAX1        SINE.100
GPMAX2        SINE.100
GPX1          0.00 %
GPX2          0.00 %
GPY1          0.00 %
GPY2          0.00 %
GPZ1          10.00 %
GPZ2          10.00 %
P16           1000.00 usec

F1 - Acquisition parameters
NUC          1
TD            256
SF01         500.133 MHz
FIDRES        26.041666 Hz
SW            13.330 ppm
FIRMODE       QF

F2 - Processing parameters
SI            1024
SF            500.1300056 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0
MC            1.10

F1 - Processing parameters
SI            1024
MC2           QF
SF            500.1300056 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0

2D NMR plot parameters
CX2           15.00 cm
CX1           15.00 cm
F2PL0         7.615 ppm
F2L0          3808.49 Hz
F2PHI         0.621 ppm
F2HI          310.58 Hz
F1PL0         7.615 ppm
F1L0          3808.49 Hz
F1PHI         0.621 ppm
F1HI          310.58 Hz
F2PPMCH       0.46627 ppm/cm
F2HZCM        233.19394 Hz/cm
F1PPMCH       0.46627 ppm/cm
    
```

HSQC spectrum of cytoglobosin D (**4**)

```

Current Data Params
NAME          unit=20
EXPNO         6
PROCNO        1

F2 - Acquisition Params
Date_         20070519
Time          11:46
INSTRUM       vsp900
PROCNO       5   IN 800-80-Hz
PULPROG       zgpg30
NUC1          13C
SOLVENT       CDCl3
NS            60
DS            4
FIDRES        0.0000078 Hz
AQ            0.0780417 Hz
RG            65536
DE            2.00
TE            300.2 K
CH2T          145.0000000 MHz
D1            0.00003000 sec
D11           0.00000000 sec
D12           0.00172614 sec
d13           0.03000000 sec
d14           0.00000040 sec
d15           0.00000000 sec
DELTA         0.00177880 sec
DELTA1        0.00128000 sec
DELTA2        0.00000267 sec
DELTA3        0.00002414 sec
DELTA4        0.00000000 sec
INVD          0.00018004 sec
HOREST        0.00000000 sec
HOREST2       0.00000000 sec
HOREST3       0.00000000 sec
STVOFF        128

***** CHANNEL F1 *****
PC1           1H
P2            1.00
p2            22.00 usec
P28           100.000 usec
P18           -1.00 usec
SF1           500.1326888 MHz

***** CHANNEL F2 *****
CPDPRG2       SFR
P3            13C
P2            1.00
p2            22.00 usec
PCPD2         7.00 usec
P4            2.4
P12           18.00 usec
SF2           125.7716224 MHz

***** GRABNET CHANNEL
GRABM1        SINE 100
GRABM2        SINE 100
GRABM3        SINE 100
GRABM4        SINE 100
OPX1          0.00 1
OPX2          0.00 1
OPX3          0.00 1
OPX4          0.00 1
OPX5          0.00 1
OPX6          0.00 1
OPX7          20.00 1
OPX8          11.00 1
OPX9          -5.00 1
OPX10         100.00 usec
OPX11         600.00 usec

F1 - Acquisition params
NDO          2
TG1          125.7716 MHz
FIDRES       117.924538 Hz
SOLVENT      2.00 238.00 Hz
F2FREQ       Echo-antenna

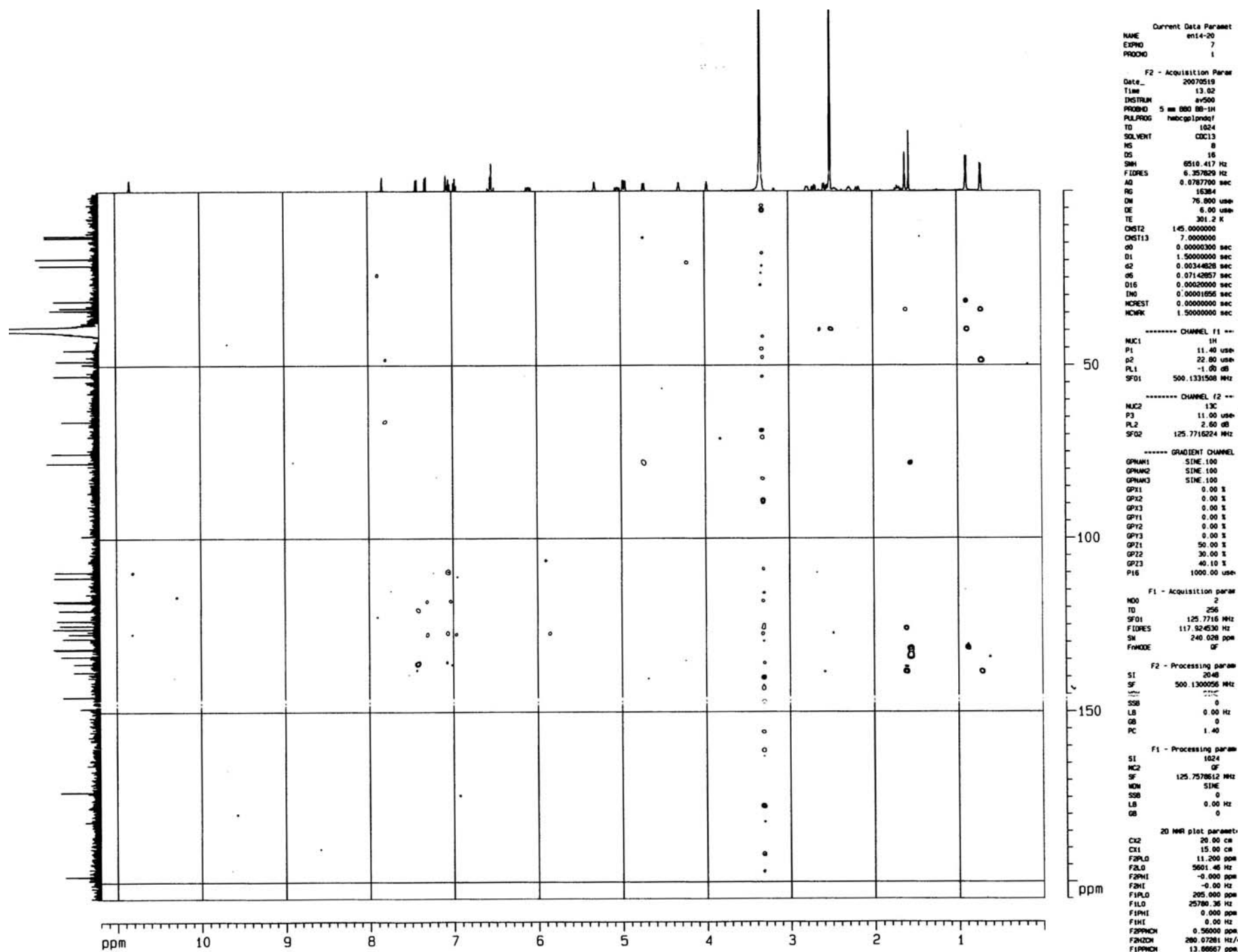
F2 - Processing parameters
SI            1024
SF            500.1326888 MHz
WDW           EMSTINE
SSB           2
GB            0.00 Hz
LB            0.00 Hz
PC            1.40

F1 - Processing parameters
SI            1024
SF            125.7716224 MHz
WDW           EMSTINE
SSB           2
GB            0.00 Hz
LB            0.00 Hz
PC            1.40

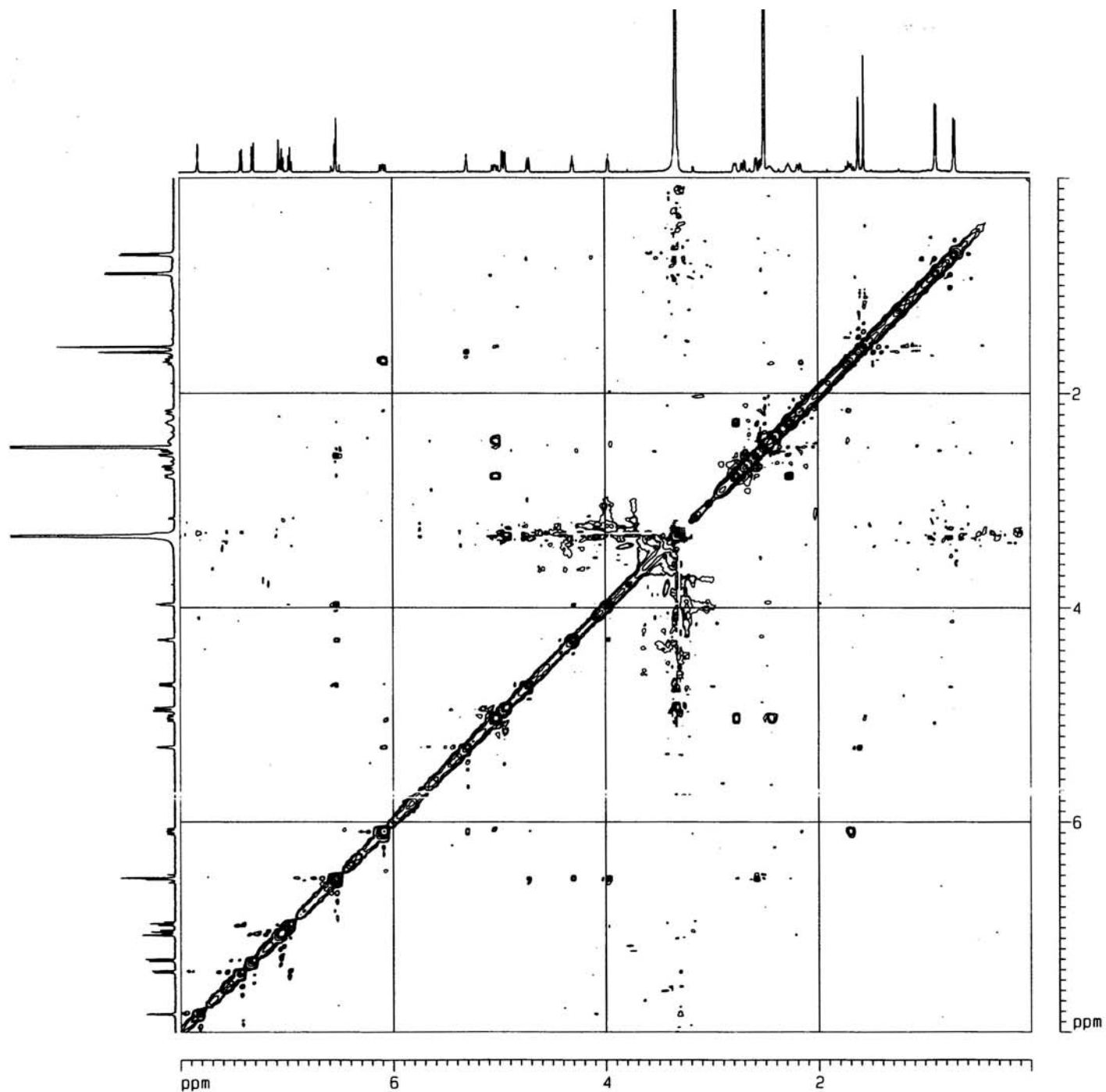
2D 90deg plot parameters
CX2           20.00 Hz
TC2           -0.00 Hz
FAPLO         11.2000 MHz
FAPL1         5801.46 Hz
FAPL2         -0.0000 MHz
FAPL3         205.0000 MHz
FAPL4         23760.38 Hz
FAPL5         0.0000 MHz
FAPL6         0.00 Hz
FAPL7         0.00000000 MHz
FAPL8         0.00000000 MHz
FAPL9         280.07831 Hz/mHz

```

HMBC spectrum of cytoglobosin D (4)



NOESY spectrum of cytoglobosin D (4)



```

Current Data Parameters
NAME      en14-20
EXPNO     8
PROCNO    1

F2 - Acquisition Parameters
Date_     20070618
Time      19.37
INSTRUM   av500
PROBHD    5 mm BBO BB-1H
PULPROG   noesyph
TD         1024
SOLVENT   DMSO
NS         16
DS         8
SWH        5122.951 Hz
FIDRES     5.002882 Hz
AQ         0.1000900 sec
RG         64
DM         97.600 usec
DE         6.00 usec
TE         301.1 K
d0         0.0008309 sec
d1         2.00000000 sec
d8         0.89999998 sec
d9         0.00019520 sec
MCREST     0.00000000 sec
MCWPRK     1.00000000 sec
STICNT     128

***** CHANNEL f1 *****
NUC1       1H
P1         11.40 usec
PL1        -1.00 dB
SF01       500.1323022 MHz

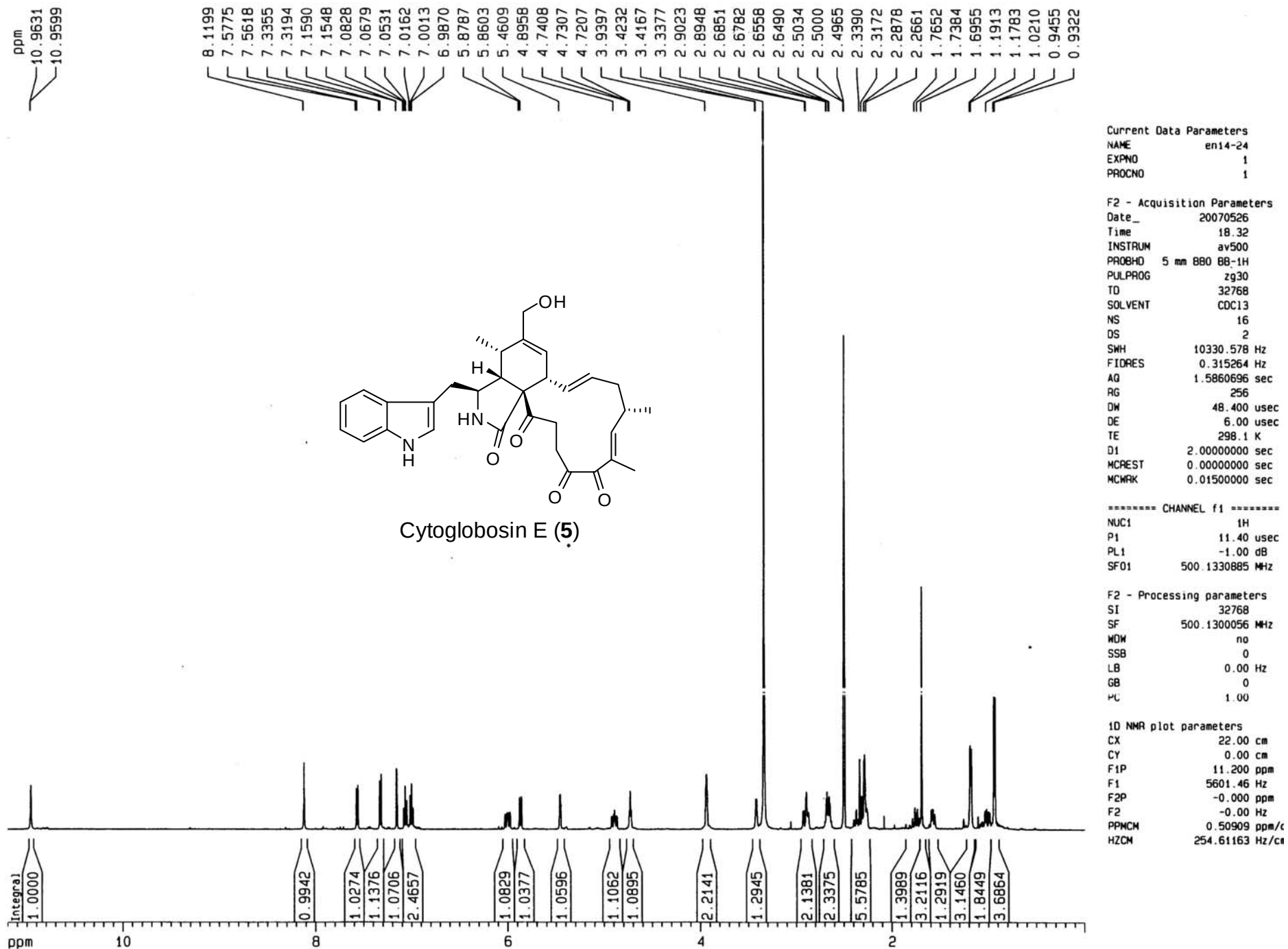
F1 - Acquisition parameters
ND0         1
TD          256
SF01        500.1323 MHz
FIDRES       20.011526 Hz
SM          10.243 ppm
FnMODE       States-TPPI

F2 - Processing parameters
SI          1024
SF          500.1300056 MHz
WDW         QSINE
SSB         2
LB          0.00 Hz
GB          0
PC          1.00

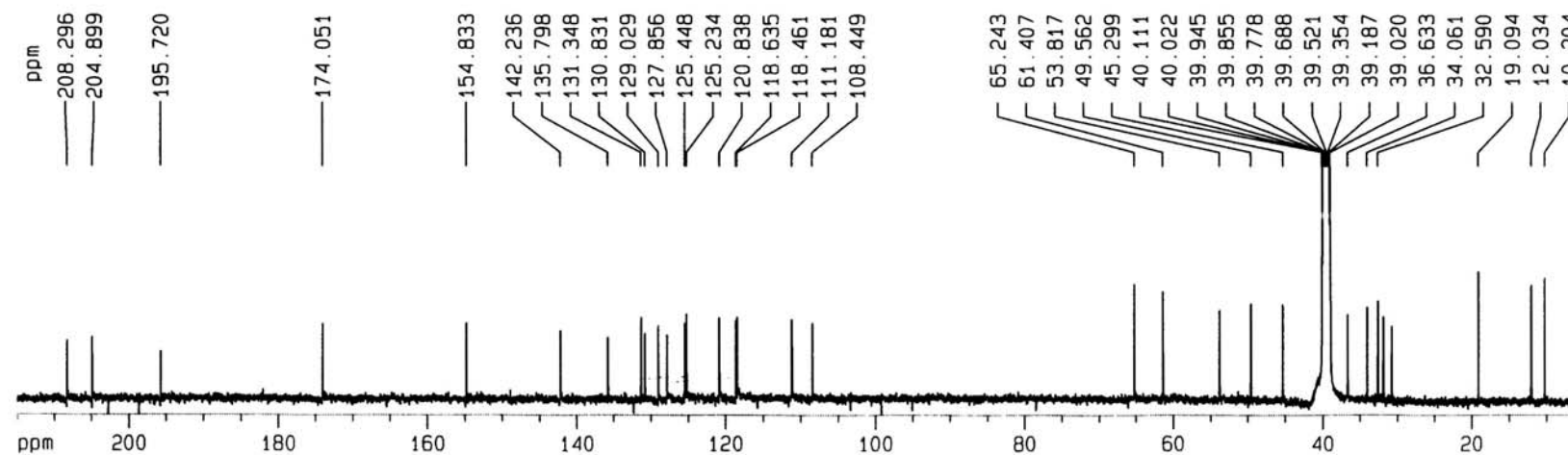
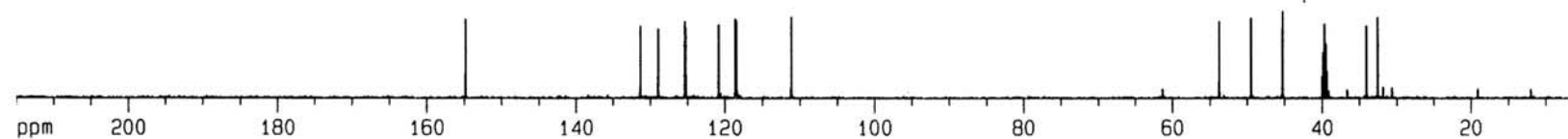
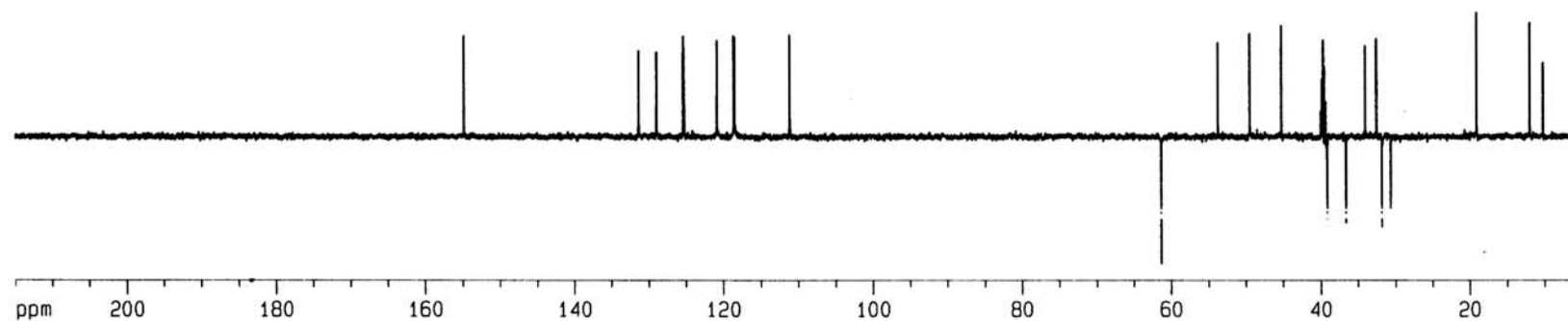
F1 - Processing parameters
SI          1024
MC2         States-TPPI
SF          500.1300056 MHz
WDW         QSINE
SSB         2
LB          0.00 Hz
GB          0

2D NMR plot parameters
CX2         15.00 cm
CX1         15.00 cm
F2PL0       8.000 ppm
F2PL1       4001.04 Hz
F2PHI       0.000 ppm
F2H1        0.00 Hz
F1PL0       8.000 Hz
F1PL1       4001.04 Hz
F1PHI       0.000 Hz
F1H1        0.00 Hz
F2PPHCH     0.53333 ppm/cm
F2HZCH      266.73599 Hz/cm
F1PPHCH     0.53333 ppm/cm
F1HZCH      266.73599 Hz/cm
  
```


^1H NMR (500 MHz, DMSO- d_6) spectrum of cytoglobosin E (5)



^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin E (5)



Current Data Parameters
NAME en14-24
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070526
Time 18.41
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 16384
DS 4
SWH 30030.029 Hz
FIDRES 0.458222 Hz
AQ 1.0912410 sec
RG 16384
DW 16.650 usec
DE 6.00 usec
TE 302.9 K
D1 2.00000000 sec
d11 0.03000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

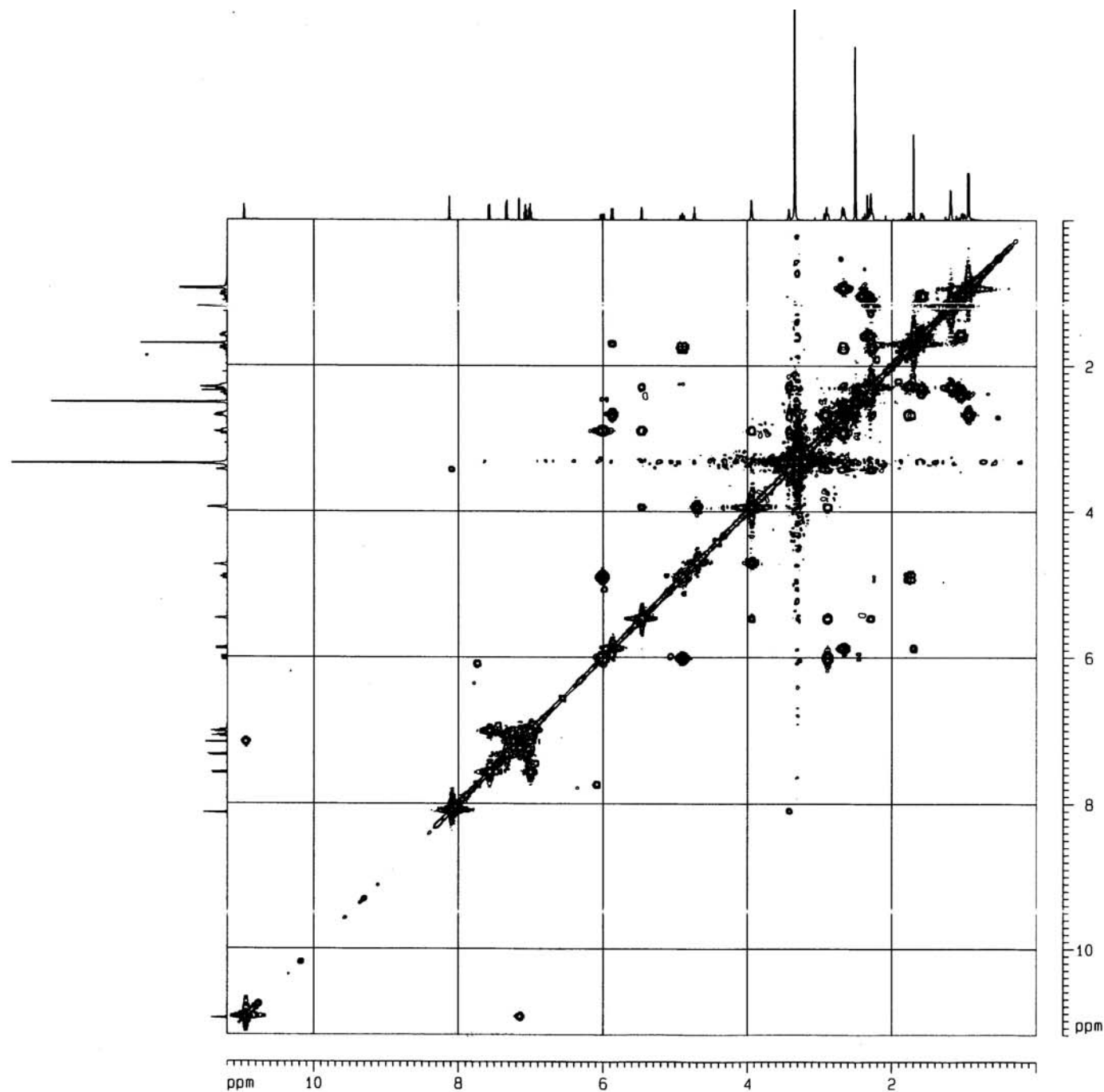
===== CHANNEL f1 =====
NUC1 ^{13}C
P1 11.00-usec
PL1 2.20 dB
SF01 125.7703643 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 ^1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 16.00 dB
SF02 500.1320005 MHz

F2 - Processing parameters
SI 32768
SF 125.7578621 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 22.00 cm
CY 0.00 cm
F1P 215.000 ppm
F1 27037.94 Hz
F2P 5.000 ppm
F2 628.79 Hz
PPMCM 9.54545 ppm/c
HZCM 1200.41589 Hz/cm

^1H - ^1H COSY spectrum of cytoglobosin E (5)



Current Data Parameters
NAME en14-24
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070527
Time 23.17
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG cosygout
TD 1024
SOLVENT CDCl3
NS 4
DS 8
SWH 6666.667 Hz
FIDRES 6.510417 Hz
AQ 0.0769250 sec
RG 228.1
DM 75.000 usec
DE 6.00 usec
TE 300.2 K
d0 0.0000300 sec
d1 1.48689198 sec
d13 0.00000400 sec
d16 0.00020000 sec
dN0 0.00015000 sec
MCREST 0.00000000 sec
MCWPR 1.48689198 sec

***** CHANNEL f1 *****
NUC1 1H
P0 11.40 usec
P1 11.40 usec
PL1 -1.00 dB
SFO1 500.1330069 MHz

***** GRADIENT CHANNEL *****
GPMAX1 SINE.100
GPMAX2 SINE.100
GPX1 0.00 %
GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 10.00 %
GPZ2 10.00 %
P16 1000.00 usec

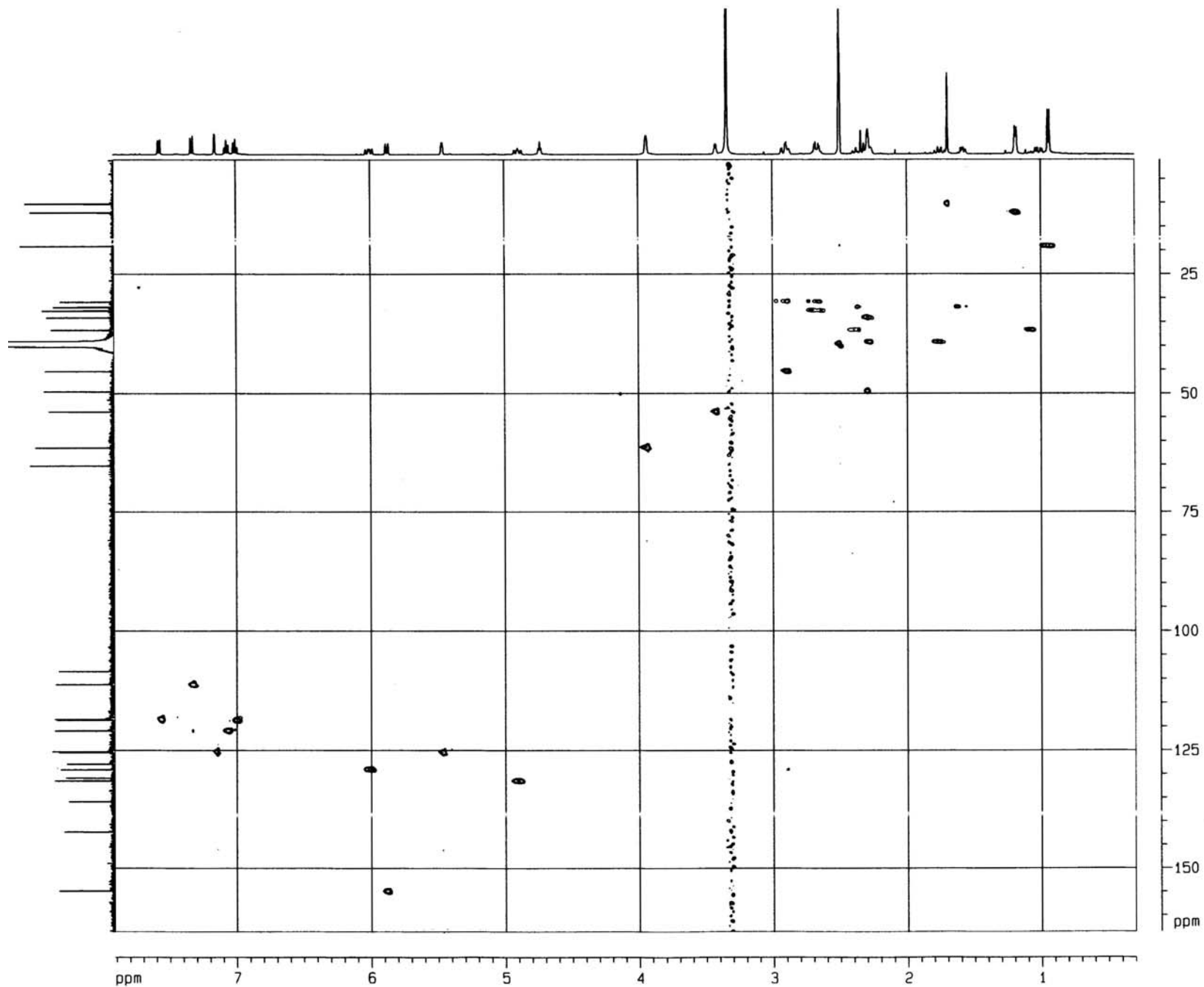
F1 - Acquisition parameters
ND0 1
TD 256
SFO1 500.133 MHz
FIDRES 26.041666 Hz
SW 13.330 ppm
F0MODE OF

F2 - Processing parameters
SI 1024
SF 500.1300056 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 OF
SF 500.1300056 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PL0 11.200 ppm
F2L0 5601.46 Hz
F2PHI -0.000 ppm
F2H1 -0.00 Hz
F1PL0 11.200 ppm
F1L0 5601.46 Hz
F1PHI -0.000 ppm
F1H1 -0.00 Hz
F2PRMCH 0.74667 ppm/cm
F2HZCH 373.43039 Hz/cm
F1PRMCH 0.74667 ppm/cm
F1HZCH 373.43039 Hz/cm

HSQC spectrum of cytoglobosin E (5)



```

Current Data Parameters
NAME          msi-2-4
EXPNO         6
PROCNO        1

F2 - Acquisition Parameters
Date_         20070703
Time         14.33
INSTRUM       av500
PROBHD        5 mm BBO 80-1H
PULPROG       zgpg30
TD            65536
SOLVENT       DMSO
NS            16
DS            4
SWH           6000.007 Hz
F2RESX        3.255004 MHz
AQ            0.1537298 sec
DE            0.0010000 sec
DM            75.000000 sec
ON            6.000000 sec
TE            300.2 K
CHXZ          145.0000000 MHz
AQ            0.0000000 sec
G1            1.3000000 sec
G4            0.0012044 sec
d11           0.1300000 sec
d13           0.0000000 sec
d14           0.0000000 sec
d16           0.0000000 sec
DELTAT1       0.0120000 sec
DELTAT2       0.0000000 sec
DELTAT3       0.0002544 sec
TNO           0.0001000 sec
HQCXET        0.0000000 sec
HNCXET        0.2500005 sec
STROT        1200

***** CHANNEL F1 *****
NUC1          1H
P1            1.10 usec
P2            22.00 usec
P30           1000.00 usec
PL1           -1.00 dB
SFO1          500.1326000 MHz

***** CHANNEL F2 *****
NUG2          13C
PC2           150
P1            19.00 usec
P4            22.00 usec
PCPG2         70.00 usec
P5            2.00 dB
L2           18.00
PC22          125.7176242 MHz

***** GRADIENT CHANNELS *****
OPH1          SINE 100
OPH2          SINE 100
OPH3          SINE 100
OPH4          SINE 100
OP01          0.00 0
OP02          0.00 0
OP03          0.00 0
OP04          0.00 0
OP05          0.00 0
OP06          0.00 0
OP07          80.00 0
OP08          20.10 0
OP09          11.00 0
OP10          -5.00 0
OP16          1000.00 usec
OP17          800.00 usec

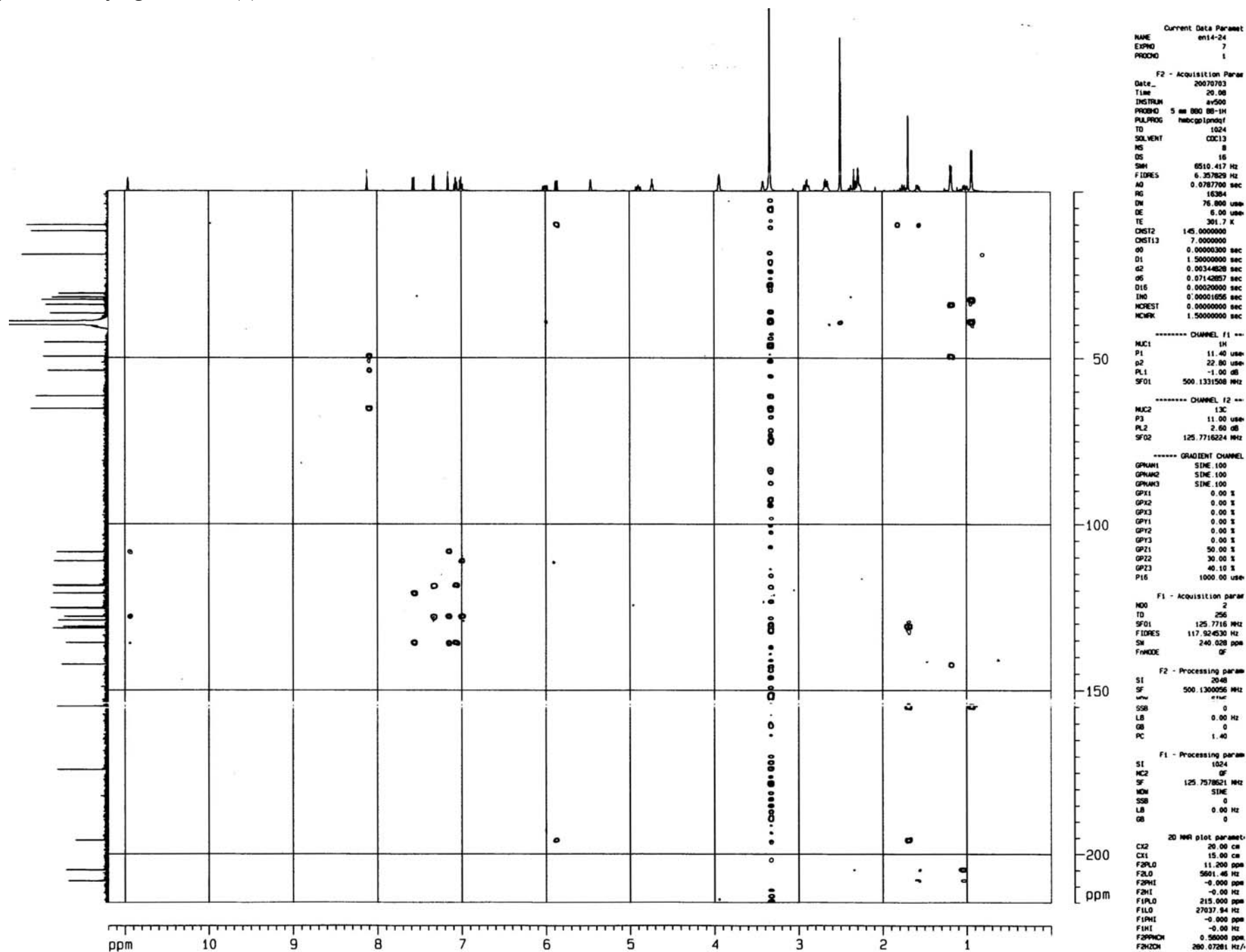
F1 - Acquisition parameters
NUC1           1H
F1            512
SFO1           125.716714 MHz
F2FRESX        50.3800000 MHz
SWH            240.000000 MHz
FWDXZ          Echo-anticcho
SI             1024
SF             500.1300005 MHz
SFO            0.0010000 sec
NS            16
DS            4
LB            0.00 Hz
GB            0
PC            1.40

F1 - Processing parameters
SI             1024
NUG2           mcs-nt160000
PC2            125.7167624 MHz
NUG1           0.0010000 sec
SFO            0.00 Hz
LB            0.00 Hz
GB            0

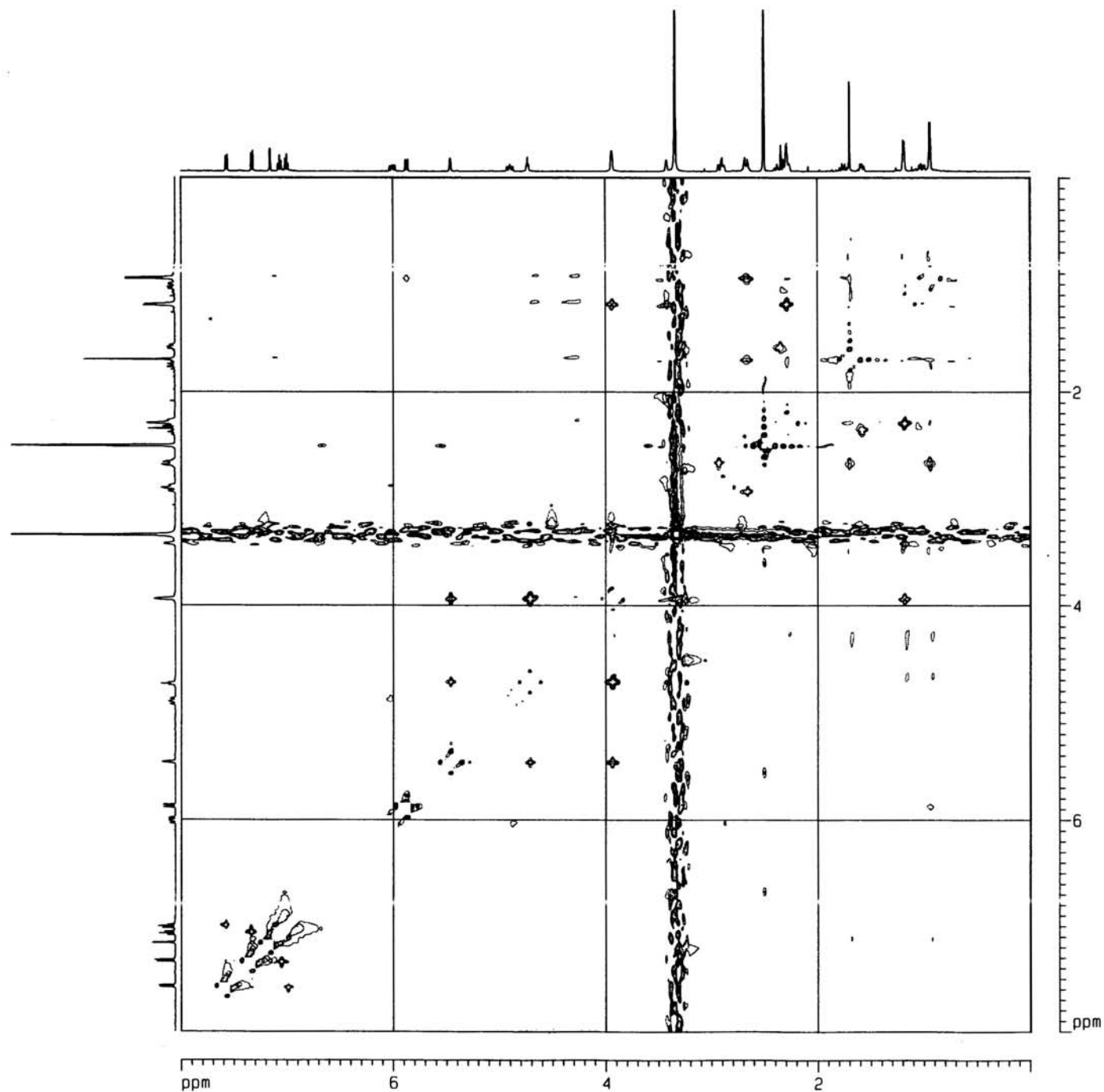
2D NMR plot parameters
CZ2            20.00 Hz
CX2            15.00 Hz
FZPL0          7.915 ppm
FZL1           3958.38 Hz
FZL2           0.700 ppm
FZL3           149.77 Hz
FZL4           162.572 ppm
FZL5           20570.40 Hz
F1F2           6.57 Hz
F1H1           110.50 Hz
F2PPH0H        0.38075 ppm
F2H2H          100.42988 Hz/cou
F2H3H          10.848 Hz/cou
F2H2H2H        1363.9377 Hz/cou

```

HMBC spectrum of cytoglobosin E (5)



NOESY spectrum of cytoglobosin E (5)



Current Data Parameters
NAME en14-24
EXPNO 8
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070703
Time 21.06
INSTRUM av500
PROBHD 5 mm BBO BB-1H
TD 1024
SOLVENT DMSO
NS 16
DS 8
SMH 5122.951 Hz
FIDRES 5.002882 Hz
AQ 0.1000900 sec
RG 64
DM 97.600 usec
DE 6.00 usec
TE 301.5 K
d0 0.00008309 sec
D1 2.00000000 sec
DB 0.89999998 sec
IN0 0.00019520 sec
MCREST 0.00000000 sec
MCWPR 1.00000000 sec
STICHT 128

----- CHANNEL f1 -----
NUC1 1H
P1 11.40 usec
PL1 -1.00 dB
SF01 500.1323022 MHz

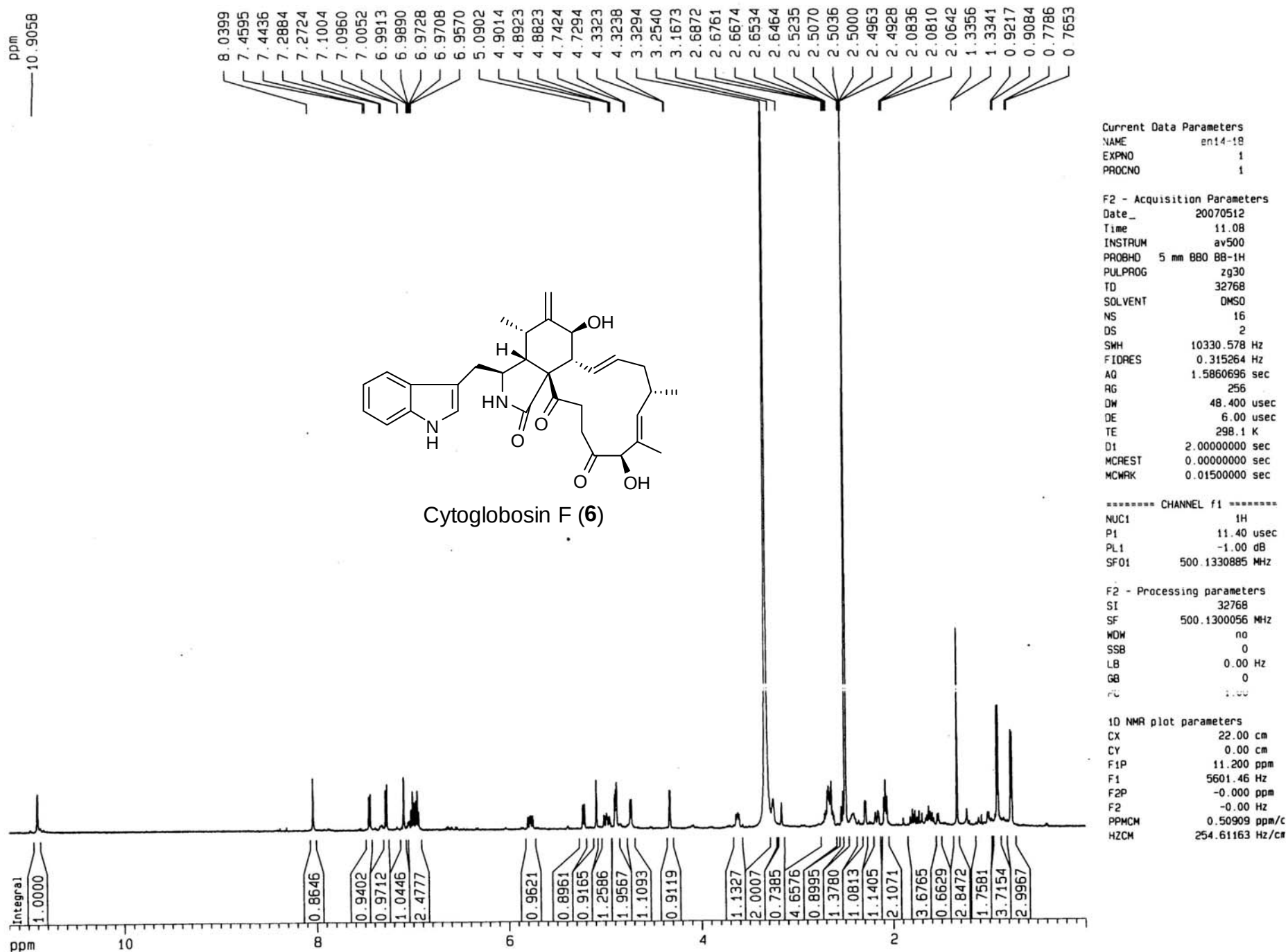
F1 - Acquisition parameters
N00 1
TD 256
SF01 500.1323 MHz
FIDRES 20.011526 Hz
SW 10.243 ppm
F0MODE States-TPPI

F2 - Processing parameters
SI 1024
SF 500.1300056 MHz
WDW 0SINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.40

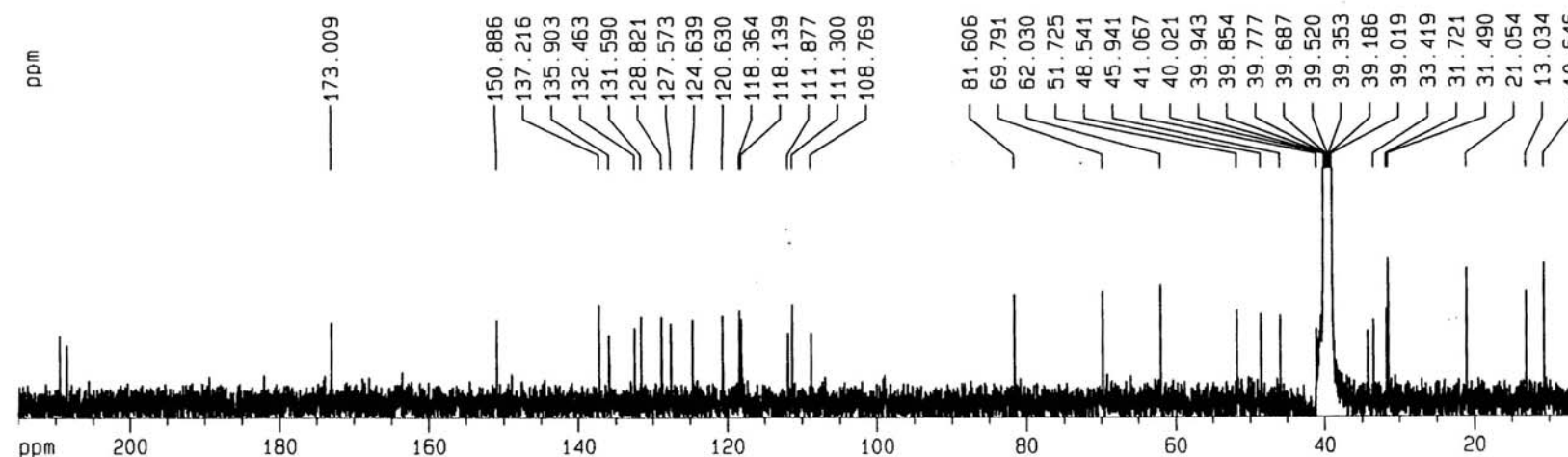
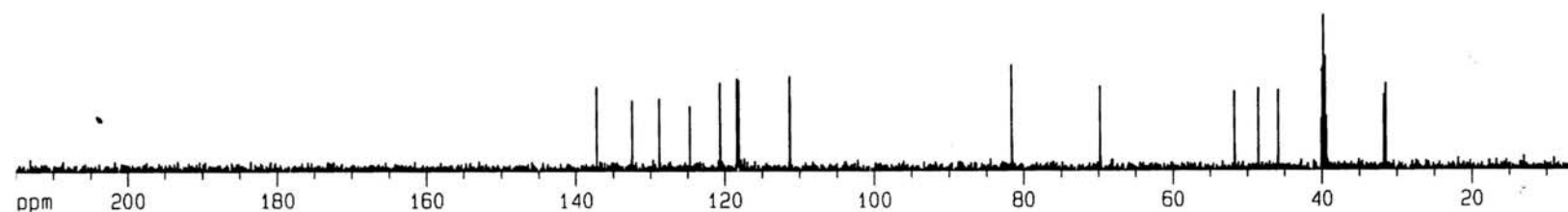
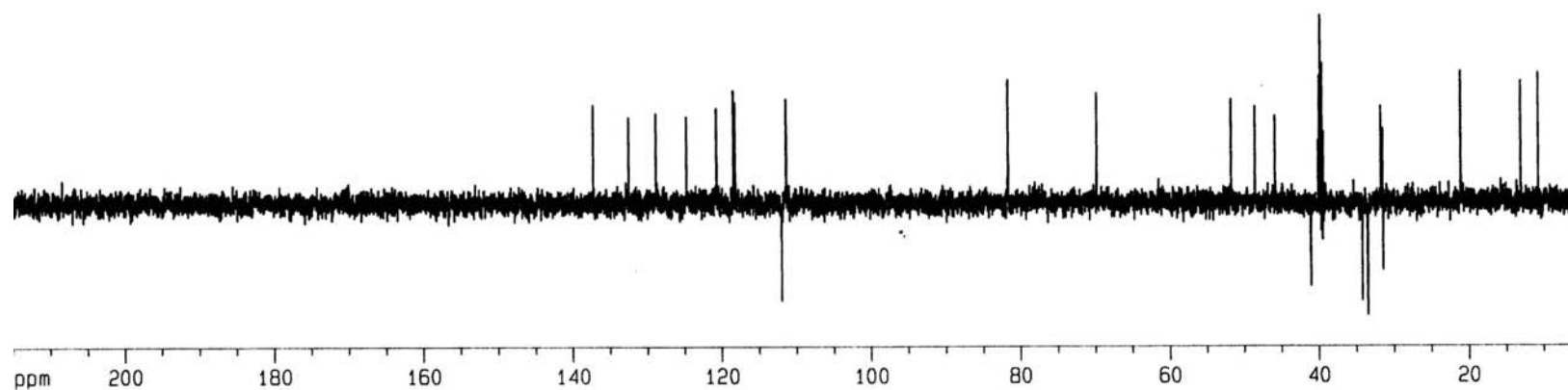
F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 500.1300056 MHz
WDW 0SINE
SSB 2
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PL0 8.003 ppm
F2L0 4002.61 Hz
F2PHI -0.009 ppm
F2H1 -4.70 Hz
F1PL0 8.003 ppm
F1L0 4002.61 Hz
F1PHI -0.009 ppm
F1H1 -4.70 Hz
F2PPHCH 0.53417 ppm/cm
F2HZCH 267.15387 Hz/cm
F1PPHCH 0.53417 ppm/cm
F1HZCH 267.15387 Hz/cm

^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of cytoglobosin F (6)



^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin F (6)



Current Data Parameters
NAME en14-18
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070512
Time 11.38
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT DMSO
NS 8192
DS 4
SWH 30030.029 Hz
FIDRES 0.458222 Hz
AQ 1.0912410 sec
RG 16384
DW 16.650 usec
DE 6.00 usec
TE 303.3 K
D1 2.00000000 sec
d11 0.03000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

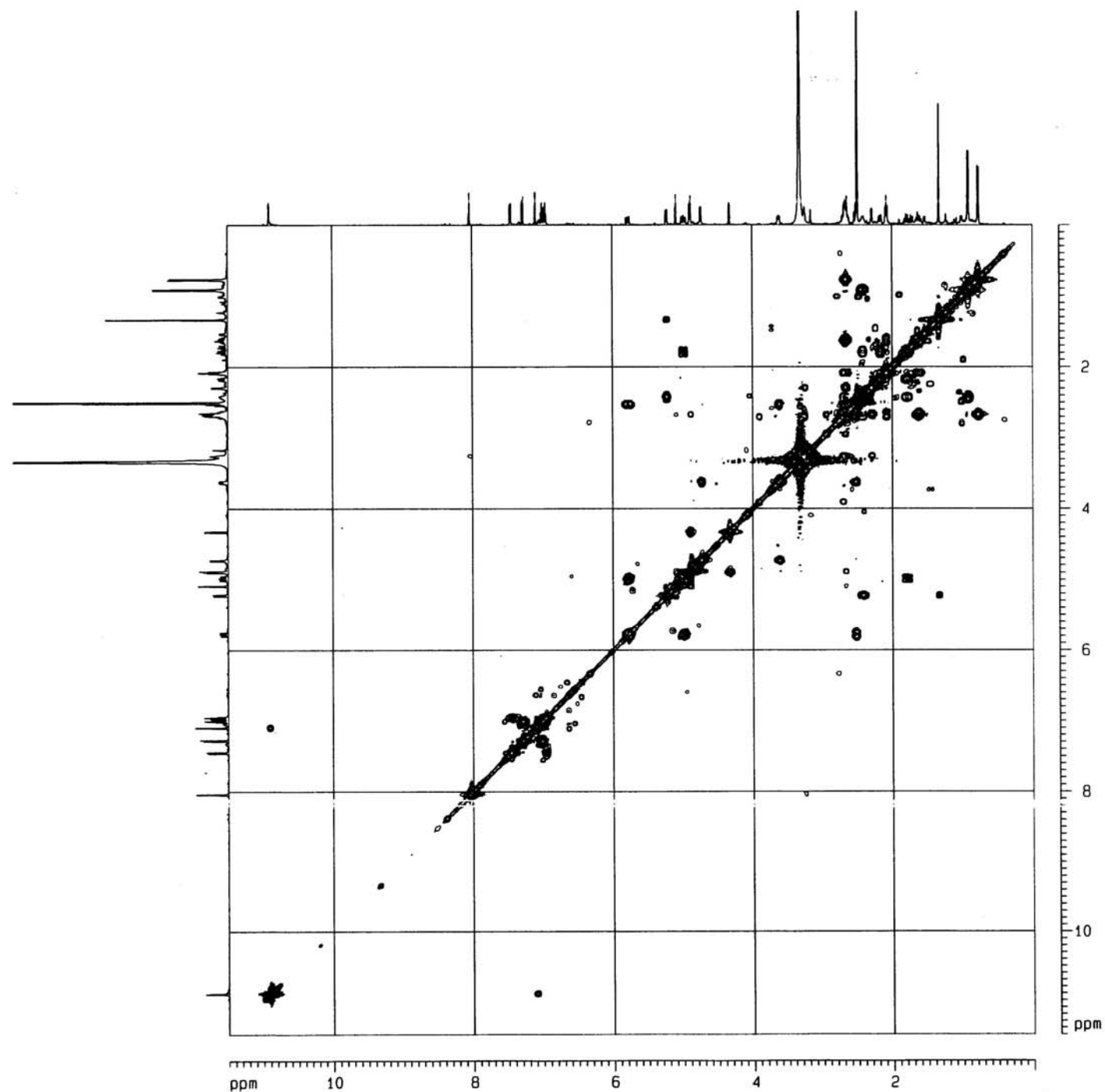
===== CHANNEL f1 =====
NUC1 ^{13}C
P1 11.00 usec
PL1 2.20 dB
SF01 125.7703643 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 ^1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 16.00 dB
SF02 500.1320005 MHz

F2 - Processing parameters
SI 32768
SF 125.7578621 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.00

1D NMR plot parameters
CX 22.00 cm
CY 0.00 cm
F1P 215.000 ppm
F1 27037.94 Hz
F2P 5.000 ppm
F2 628.79 Hz
PPMCM 9.54545 ppm
HZCM 1200.41589 Hz/i

^1H - ^1H COSY spectrum of cytoglobosin F (6)



Current Data Parameters
NAME en14-18
EXPNO 5
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070513
Time 1.34
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG cosygpgf
TD 1024
SOLVENT CDC13
NS 4
DS 8
SMH 6666.667 Hz
FIDRES 6.510417 Hz
AQ 0.0769250 sec
RG 228.1
DN 75.000 usec
DE 6.00 usec
TE 299.8 K
d0 0.00000300 sec
d1 1.48689198 sec
d15 0.00000400 sec
d16 0.00020000 sec
TNO 0.00015000 sec
MCREST 0.00000000 sec
MCMRK 1.48689198 sec

----- CHANNEL f1 -----
NUC1 1H
P0 11.40 usec
P1 11.40 usec
PL1 -1.00 dB
SF01 500.1330069 MHz

----- GRADIENT CHANNEL -----
GPRAM1 SINE 100
GPRAM2 SINE 100
GPX1 0.00 %
GPX2 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPZ1 10.00 %
GPZ2 10.00 %
P16 1000.00 usec

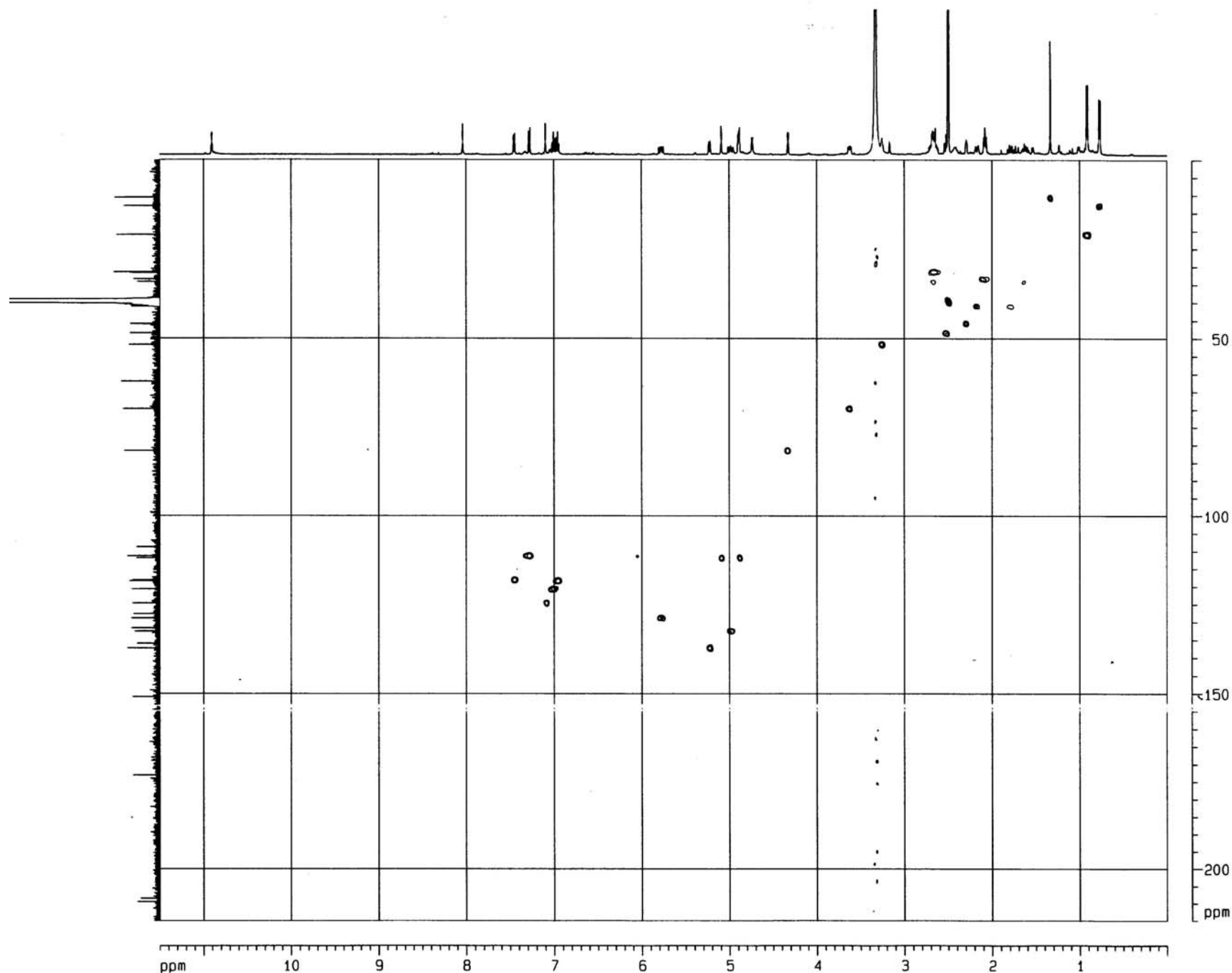
F1 - Acquisition parameters
NO 1
TD 256
SF01 500.133 MHz
FIDRES 26.041666 Hz
SH 13.330 ppm
FMODE OF

F2 - Processing parameters
SI 1024
SF 500.1300056 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 OF
SF 500.1300056 MHz
WDW SINE
SSB 0
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PLO 11.500 ppm
F2LO 5751.50 Hz
F2PHI 0.000 ppm
F2HI 0.00 Hz
F1PLO 11.500 ppm
F1LO 5751.50 Hz
F1PHI 0.000 ppm
F1HI 0.00 Hz
F2PPMCH 0.76667 ppm/cm
F2HZCH 383.43298 Hz/cm
F1PPMCH 0.76667 ppm/cm
F1HZCH 383.43298 Hz/cm

HSQC spectrum of cytoglobosin F (6)



Current Data Parameters

NAME: m14-18
EXPNO: 6
PROCNO: 1

F2 - Acquisition Parameters

Date_: 20070625
Time: 9.00
INSTRUM: av500
PROBHD: 5 mm QNP 1H-13
PULPROG: zgpg30
TD: 1024
SOLVENT: CDCl3
NS: 16
DS: 16
SWH: 6666.667 Hz
FIDRES: 0.518417 Hz
AQ: 0.5768259 sec
RG: 16384
DN: 75.000 usec
DE: 6.00 usec
TE: 301.2 K
CH2T2: 145.0000000
d0: 0.00003300 sec
d1: 1.500000000 sec
d4: 0.00172414 sec
d11: 0.03000000 sec
d13: 0.00000400 sec
d16: 0.00020000 sec
d24: 0.0006207 sec
DELTA: 0.00127886 sec
DELTA1: 0.00120800 sec
DELTA2: 0.0006207 sec
DELTA3: 0.00052414 sec
TD0: 0.00004556 sec
HOREST: 0.00000000 sec
HOMR: 0.25000051 sec
STOCH: 128

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

NUC1: 1H
P1: 11.40 usec
P2: 22.00 usec
P8: 1000.00 usec
PL1: -1.00 dB
PL2: 500.1330093 MHz

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

CPDPRG2: gpr2
NUC2: 13C
P3: 11.00 usec
P4: 22.00 usec
PCPD2: 70.00 usec
PL2: 2.60 dB
PL12: 18.90 dB
PL12: 125.7716224 MHz

***** GRADIENT CHANNEL *****

OPHA1: SINE 100
OPHA2: SINE 100
OPHA3: SINE 100
OPHA4: SINE 100
GP1: 0.00 %
GP2: 0.00 %
GP3: 0.00 %
GP4: 0.00 %
GP5: 0.00 %
GP6: 0.00 %
GP7: 0.00 %
GP8: 0.00 %
GP9: 0.00 %
GP10: 0.00 %
GP11: 80.00 %
GP12: 20.10 %
GP13: 11.00 %
GP14: -5.00 %
P16: 1000.00 usec
P19: 600.00 usec

F1 - Acquisition parameters

NO: 2
TD: 272
SF01: 125.7716 MHz
FIDRES: 132.988777 Hz
SH: 240.028 ppm
FWDGE: Echo-Antiecho

F2 - Processing parameters

SI: 1024
SF: 500.1300258 MHz
WDW: EM
SSB: 2
LB: 0.00 Hz
GB: 0
PC: 1.40

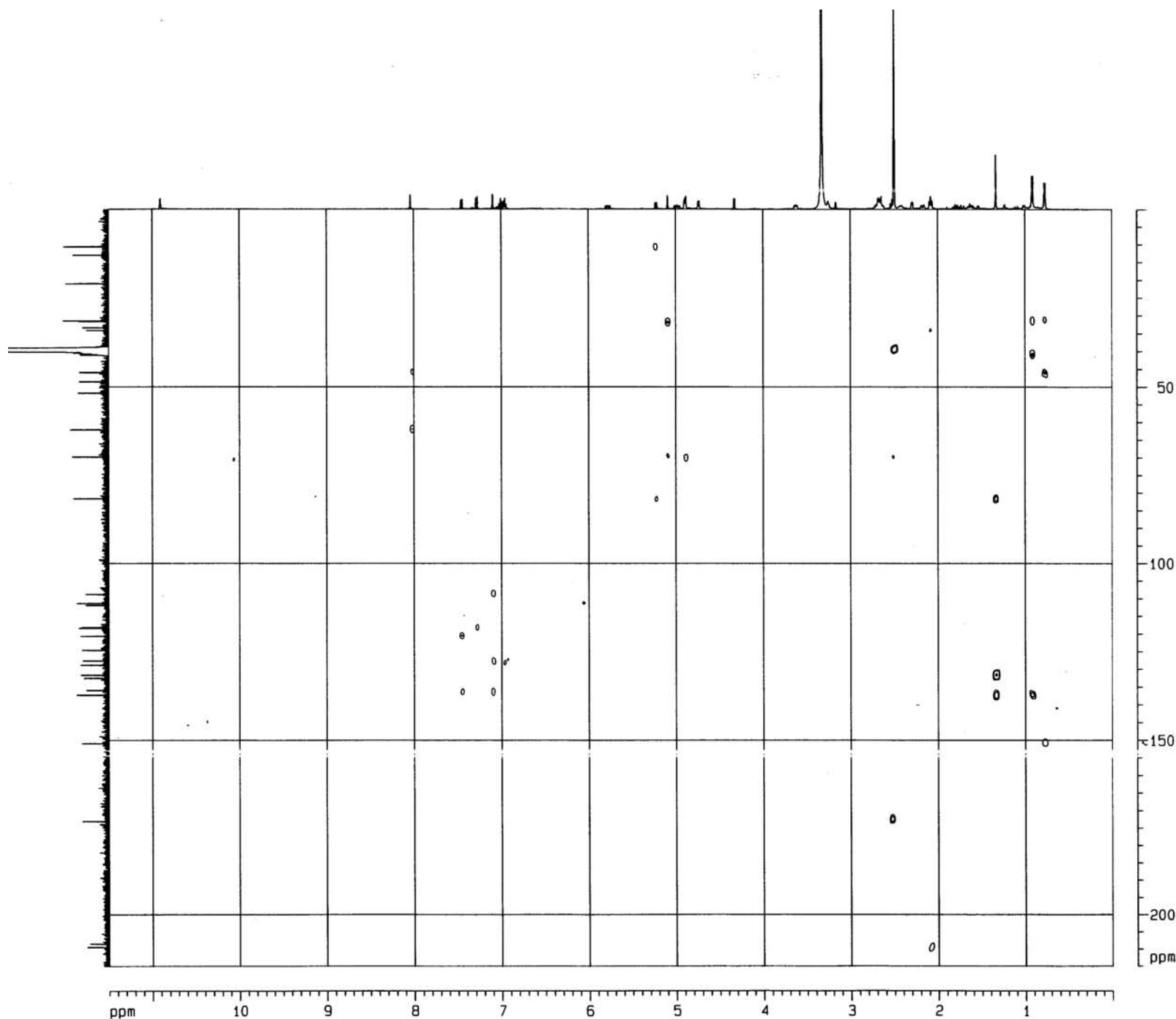
F1 - Processing parameters

SI: 1024
SF: 125.7576626 MHz
WDW: EM
SSB: 2
LB: 0.00 Hz
GB: 0

2D NMR plot parameters

CX2: 20.00 cm
CX1: 15.00 cm
F2PL0: 11.500 ppm
F2L0: 5791.50 Hz
F2PH1: -0.000 ppm
F2H1: -0.00 Hz
F1PL0: 215.000 ppm
F1L0: 27037.94 Hz
F1PH1: -0.000 ppm
F1H1: -0.00 Hz
F2PCH: 0.57500 ppm/s
F2CH: 287.51477 Hz/s
F1PCH: 14.33333 ppm/s

HMBC spectrum of cytoglobosin F (6)



Current Data Param
NAME ent4-18
EXPNO 7
PROCNO 1

F2 - Acquisition Param
Date_ 20070629
Time 14.41
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG hmcgpglndf
TD 1024
SOLVENT CDCl3
NS 16
DS 16
SWH 6510.417 Hz
FIDRES 6.357829 Hz
AQ 0.0787700 sec
RG 16384
DM 76.800 usec
DE 6.00 usec
TE 301.5 K
CHST2 145.0000000
CHST13 8.0000000
d0 0.0000000 sec
D1 1.5000000 sec
d2 0.00344628 sec
d6 0.06250000 sec
D16 0.00020000 sec
IN0 0.00010556 sec
HOREST 0.00000000 sec
HCHW 1.50000000 sec

----- CHANNEL f1 -----
NUC1 1H
P1 11.40 usec
PL1 22.00 usec
PL1 -1.00 dB
SFO1 500.1331508 MHz

----- CHANNEL f2 -----
NUC2 13C
P2 11.00 usec
PL2 2.00 dB
SFO2 125.7716224 MHz

----- GRADIENT CHANNEL -----
GPM1 SINE 100
GPM2 SINE 100
GPM3 SINE 100
GP1 0.00 %
GP2 0.00 %
GP3 0.00 %
GP4 0.00 %
GP5 0.00 %
GP6 0.00 %
GP7 0.00 %
GP8 0.00 %
GP9 0.00 %
GP10 0.00 %
GP11 0.00 %
GP12 0.00 %
GP13 0.00 %
GP14 0.00 %
GP15 0.00 %
GP16 0.00 %
P16 1000.00 usec

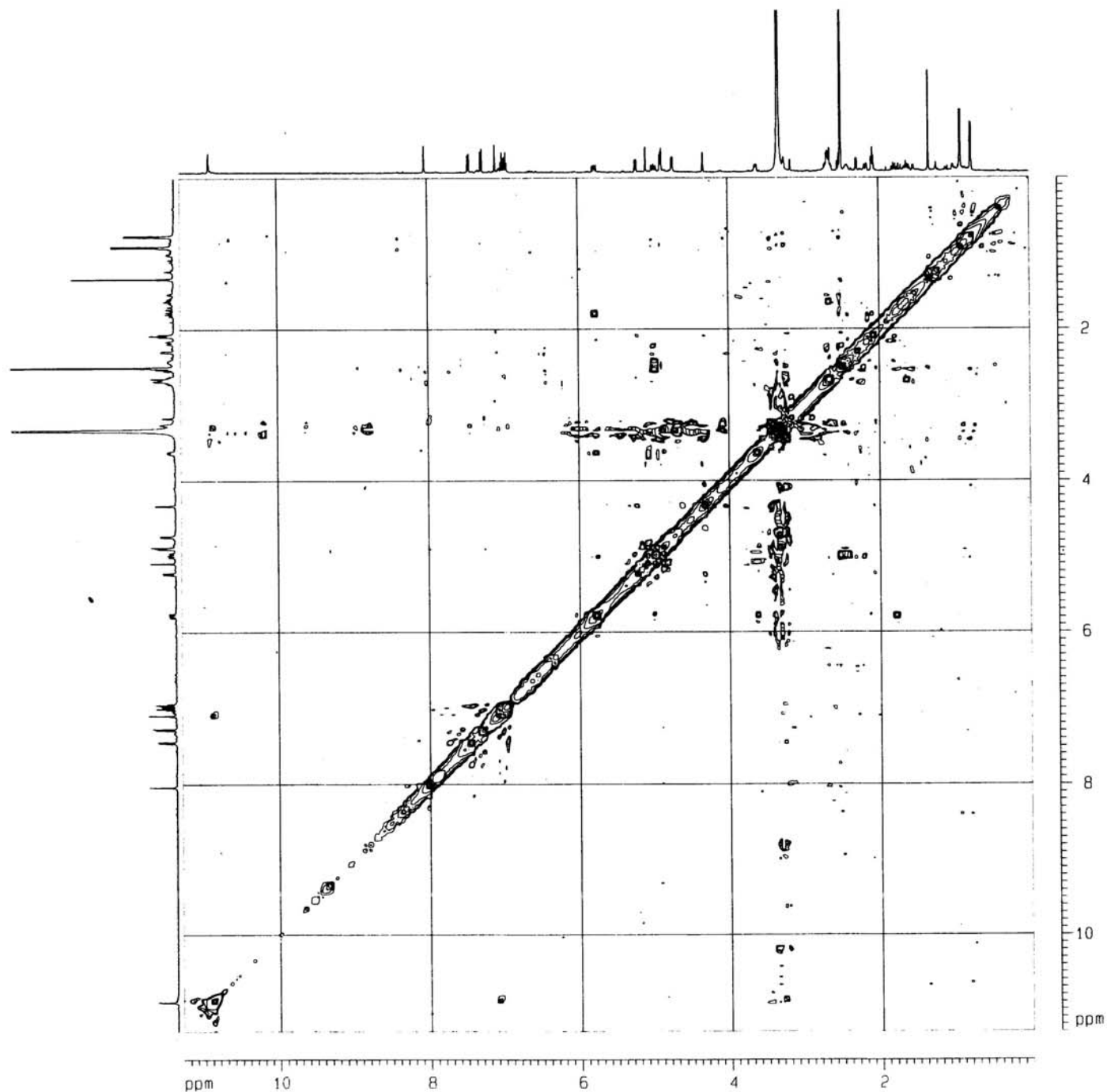
F1 - Acquisition param
TD 124
SFO1 125.7716 MHz
FIDRES 243.457052 Hz
SW 240.028 ppm
FMODE OF

F2 - Processing param
SI 2048
SF 500.1300056 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing param
SI 1024
HC2 OF
SF 125.7578521 MHz
WDW EM
SSB 0
LB 0.00 Hz
GB 0

2D NMR plot param:
CX2 20.00 cm
CX1 15.00 cm
F2PL0 11.500 ppm
F2PL1 5751.50 Hz
F2PH1 -0.000 ppm
F2PH2 -0.000 Hz
F1PL0 215.000 ppm
F1PL1 27037.94 Hz
F1PH1 -0.000 ppm
F1PH2 -0.000 Hz
F2PACH 0.57500 ppm
F2HZCH 287.57477 Hz/
F1PACH 14.33333 ppm

NOESY spectrum of cytoglobosin F (6)



Current Data Parameters
NAME en14-18
EXPNO 8
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070629
Time 15.37
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG noesyph
TD 1024
SOLVENT DMSO
NS 16
DS 8
SWH 7507.507 Hz
FIDRES 7.331550 Hz
AQ 0.0683150 sec
RG 64
DN 66.600 usec
DE 6.00 usec
TE 301.5 K
d0 0.00005214 sec
d1 2.00000000 sec
d8 0.89999998 sec
IN0 0.00013330 sec
MCREST 0.00000000 sec
MCWRK 1.00000000 sec
STCNT 256

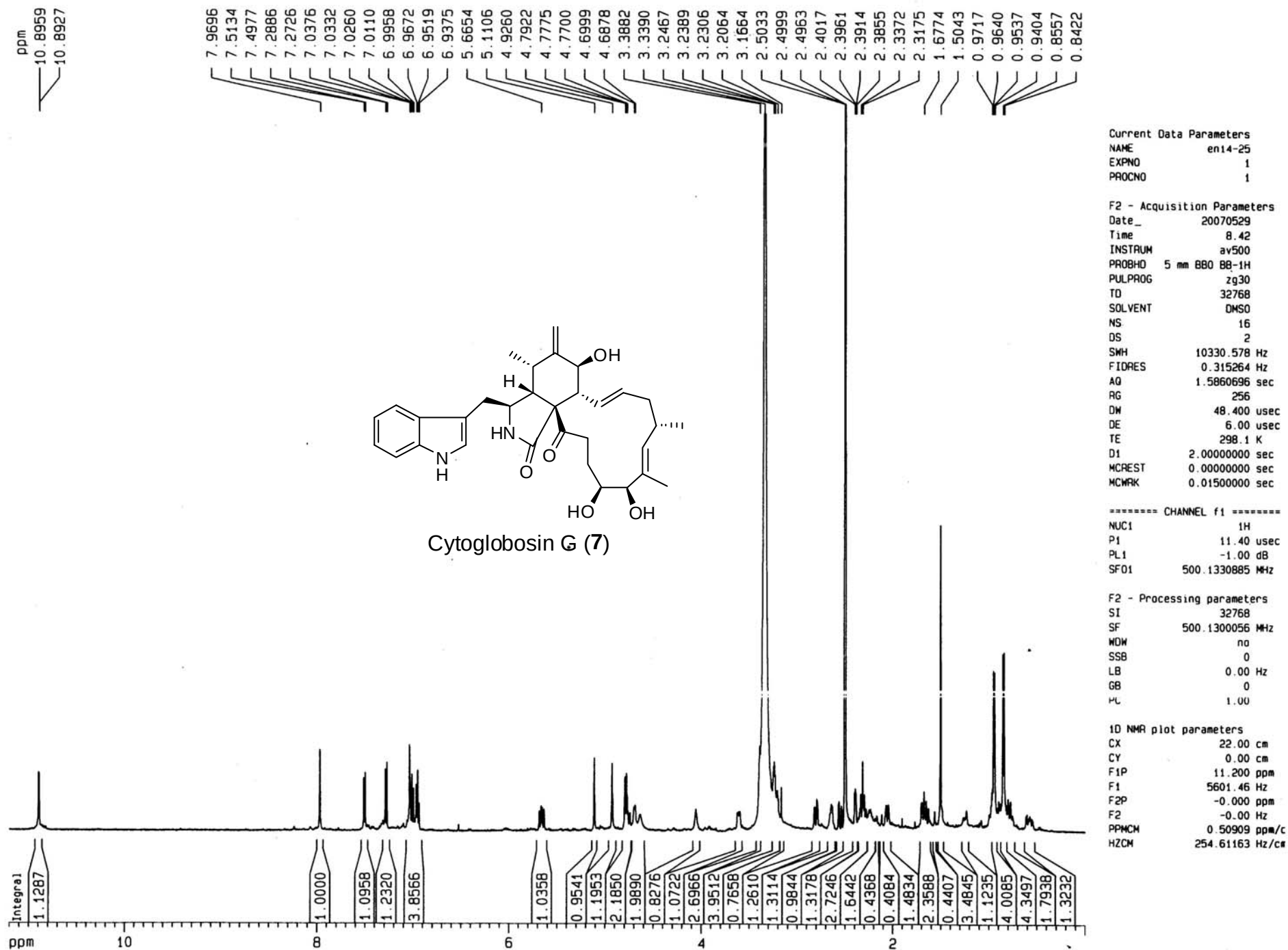
***** CHANNEL f1 *****
NUC1 1H
P1 11.40 usec
PL1 1.00 dB
SFO1 500.1323022 MHz

F1 - Acquisition parameters
ND0 1
TD 186
SFO1 500.1323 MHz
FIDRES 40.332664 Hz
SW 15.000 ppm
FMODE States-TPPI

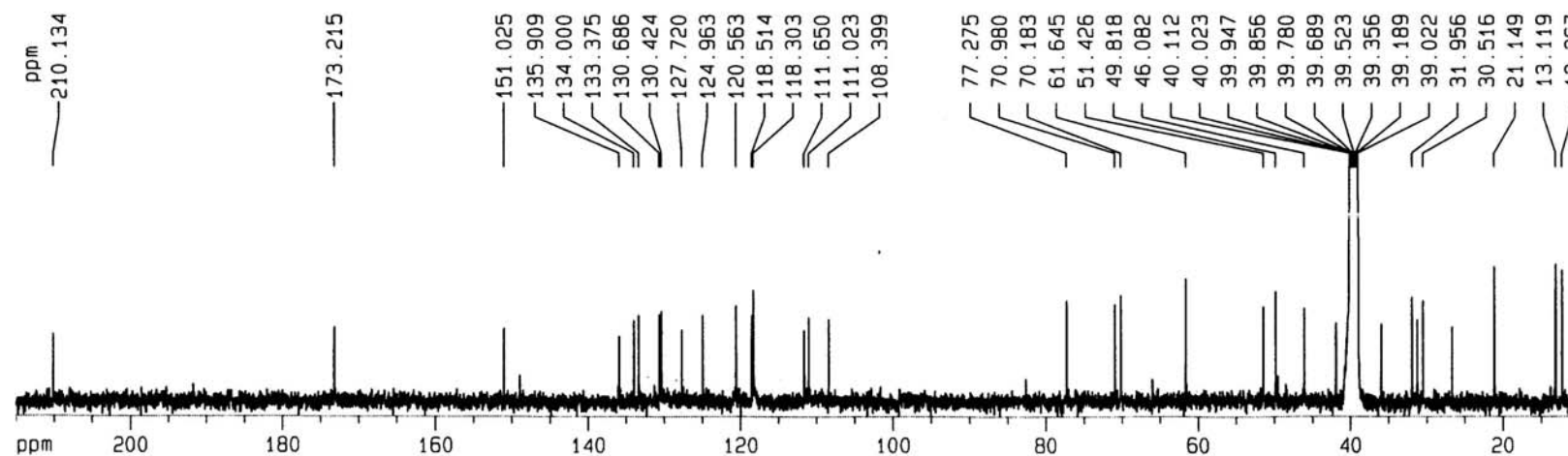
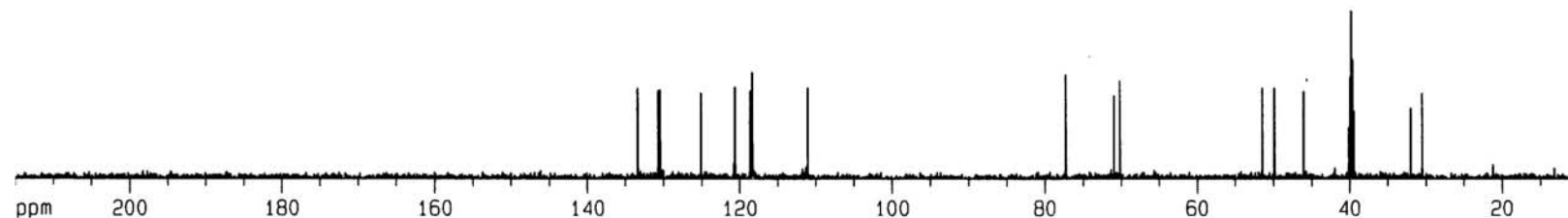
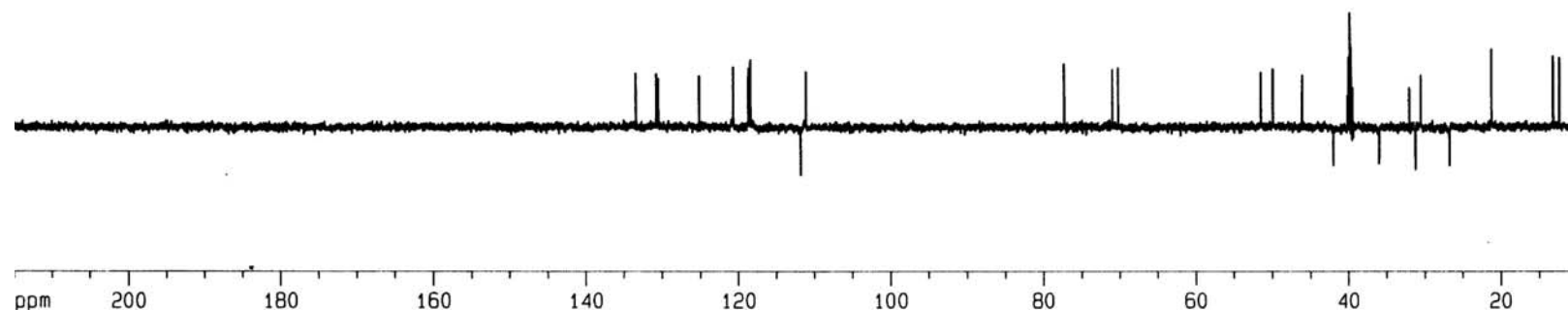
F2 - Processing parameters
SI 1024
SF 500.1300056 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 500.1300056 MHz
WDW QSINE
SSB 2
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PLO 11.300 ppm
F2LO 5651.47 Hz
F2PHI -0.000 ppm
F2HI -0.00 Hz
F1PLO 11.300 ppm
F1LO 5651.47 Hz
F1PHI -0.000 ppm
F1HI -0.00 Hz
F2PPMCH 0.75333 ppm/cm
F2HZCM 376.76462 Hz/cm
F1PPMCH 0.75333 ppm/cm
F1HZCM 376.76462 Hz/cm

¹H NMR (500 MHz, DMSO-*d*₆) spectrum of cytoglobosin G (7)

^{13}C NMR (125 MHz, DMSO- d_6) and DEPT spectra of cytoglobosin G (7)



Current Data Parameters
NAME en14-25
EXPNO 2
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070529
Time 9.14
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG zgdc30
TD 65536
SOLVENT CDC13
NS 16384
DS 4
SWH 30030.029 Hz
FIDRES 0.458222 Hz
AQ 1.0912410 sec
RG 16384
DW 16.650 usec
DE 6.00 usec
TE 305.0 K
D1 2.00000000 sec
d11 0.03000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

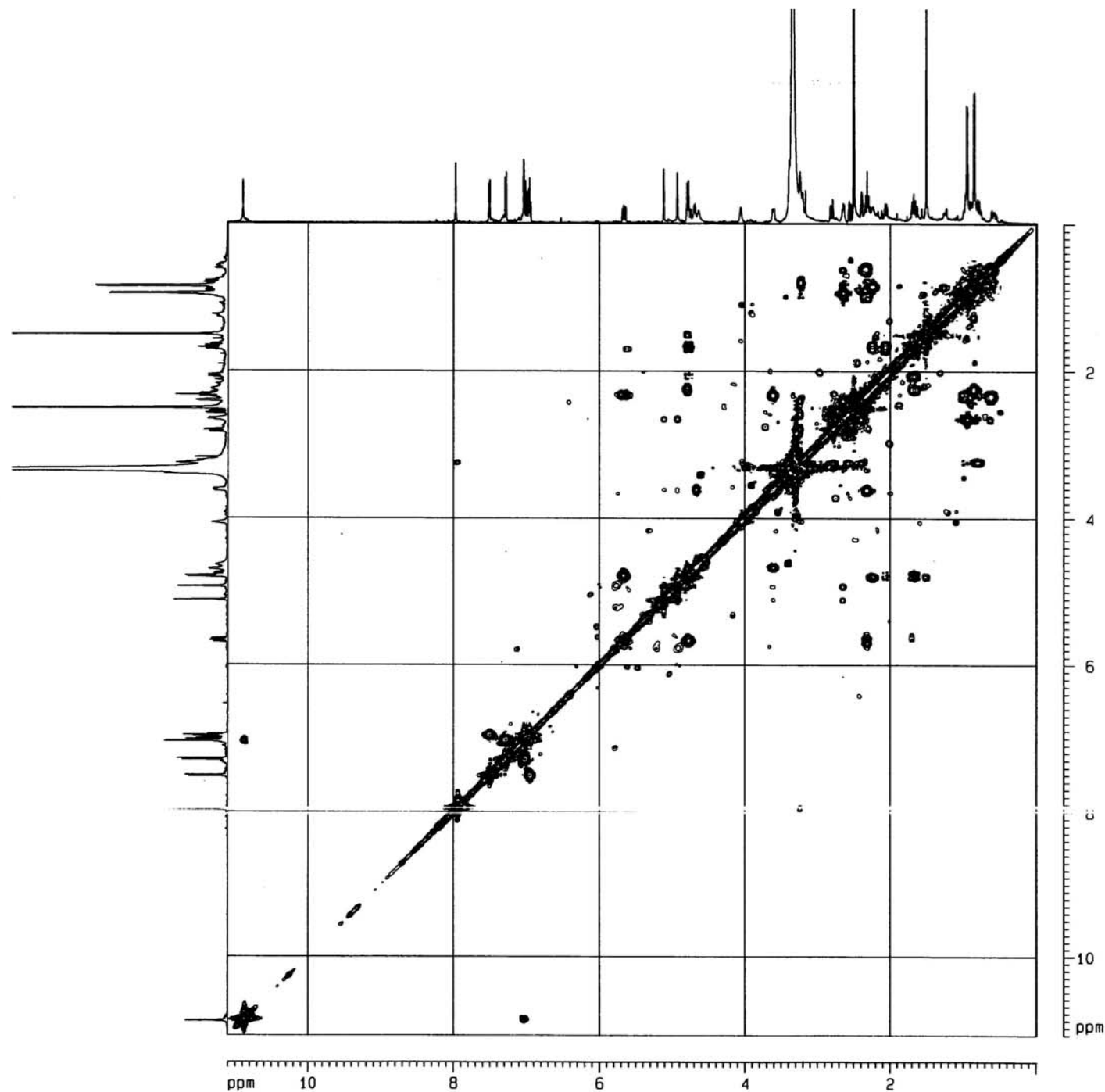
===== CHANNEL f1 =====
NUC1 13C
P1 11.00 usec
PL1 2.20 dB
SF01 125.7703643 MHz

===== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 -1.00 dB
PL12 16.00 dB
SF02 500.1320005 MHz

F2 - Processing parameters
SI 32768
SF 125.7578630 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters
CX 22.00 cm
CY 0.00 cm
F1P 215.000 ppm
F1 27037.94 Hz
F2P 9.000 ppm
F2 1131.82 Hz
PPNOM 9.36364 ppm/c
HZCM 1177.55090 Hz/cm

^1H - ^1H COSY spectrum of cytoglobosin G (7)



```

Current Data Parameters
NAME          en14-25
EXPNO         5
PROCNO        1

F2 - Acquisition Parameters
Date_         20070530
Time          6.25
INSTRUM       av500
PROBHD        5 mm BBO BB-1H
PULPROG       cosygpq7
TD            1024
SOLVENT       CDCl3
NS            4
DS            8
SWH           6666.667 Hz
FIDRES        6.510417 Hz
AQ            0.0769250 sec
RG            228.1
DM            75.000 usec
DE            6.00 usec
TE            302.6 K
d0            0.0000300 sec
d1            1.48689198 sec
d13           0.0000400 sec
d16           0.00020000 sec
IN0           0.00015000 sec
MCREST        0.00000000 sec
MCMRK         1.48689198 sec

----- CHANNEL f1 -----
NUC1          1H
P0            11.40 usec
P1            11.40 usec
PL1           -1.00 dB
SF01          500.1330069 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           1000.00 usec

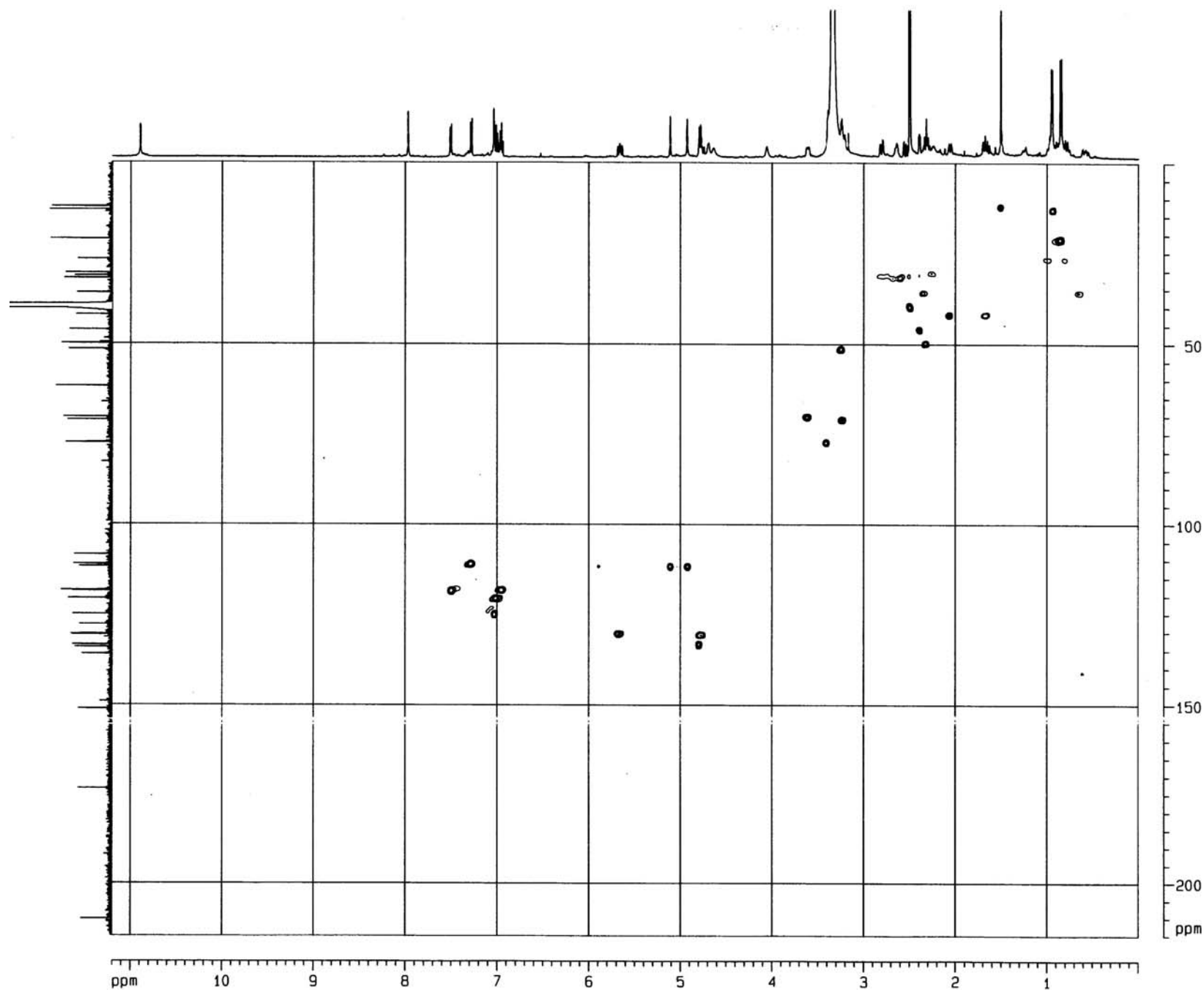
F1 - Acquisition parameters
ND0           1
TD            256
SF01          500.133 MHz
FIDRES        26.041666 Hz
SM            13.330 ppm
FnMODE        GF

F2 - Processing parameters
SI            1024
SF            500.1300056 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0
PC            1.00

F1 - Processing parameters
SI            1024
MC2           GF
SF            500.1300056 MHz
WDW           SINE
SSB           0
LB            0.00 Hz
GB            0

2D NMR plot parameters
CX2           15.00 cm
CX1           15.00 cm
F2PL0         11.104 ppm
F2L0          5553.41 Hz
F2PHI         -0.013 ppm
F2HI          -6.48 Hz
F1PL0         11.104 ppm
F1L0          5553.41 Hz
F1PHI         -0.013 ppm
F1HI          -6.48 Hz
F2PPMCHN     0.74113 ppm/cm
F2HZCHN      370.65970 Hz/cm
F1PPMCHN     0.74113 ppm/cm
F1HZCHN      370.65970 Hz/cm
    
```

HSQC spectrum of cytoglobosin G (7)



Current Data Parameters

NAME: an14-25
EXPNO: 8
PROCNO: 1

F2 - Acquisition Parameters

Date_: 20070823
Time: 16.35
INSTRUM: av500
PROBHD: 5 mm BBO BB-1H
PULPROG: zgpg30
TD: 1824
SOLVENT: CDCl3
NS: 16
DS: 16
SWH: 6686.867 Hz
FIDRES: 0.516417 Hz
AQ: 0.5768250 sec
RG: 16384
DM: 75.000 umsec
DE: 6.00 umsec
TE: 301.2 K
CHST2: 145.0000000
d0: 0.0000300 sec
d1: 1.50000000 sec
d4: 0.00172414 sec
d11: 0.03000000 sec
d13: 0.0000400 sec
d16: 0.0002000 sec
d24: 0.0008207 sec
DELTA: 0.00127880 sec
DELTA1: 0.00120800 sec
DELTA2: 0.0008207 sec
DELTA3: 0.0002414 sec
IM0: 0.00010556 sec
HOREST: 0.00000000 sec
HOREX: 0.25000051 sec
STOCH: 128

***** CHANNEL f1 ****

NUC1: ^1H
P1: 11.40 umsec
P2: 22.80 umsec
P28: 1000.00 umsec
PL1: -1.00 dB
SFO1: 500.1330069 MHz

***** CHANNEL f2 ****

CPROG2: gpgp3
NUC2: ^{13}C
P3: 11.00 umsec
P4: 22.00 umsec
PCPD2: 70.00 umsec
PL2: 2.80 dB
PL12: 18.90 dB
SFO2: 125.7716224 MHz

***** GRADIENT CHANNEL

OPRM1: SINE, 100
OPRM2: SINE, 100
OPRM3: SINE, 100
OPRM4: SINE, 100
GP1: 0.00 s
GP2: 0.00 s
GP3: 0.00 s
GP4: 0.00 s
GP1: 0.00 s
GP2: 0.00 s
GP3: 0.00 s
GP4: 0.00 s
GP1: 80.00 s
GP2: 20.10 s
GP3: 11.00 s
GP4: -5.00 s
P16: 1000.00 umsec
P18: 800.00 umsec

F1 - Acquisition parameters

NUC: 2
TD: 218
SFO1: 125.7716 MHz
FIDRES: 136.480179 Hz
SH: 240.028 ppm
FIRIDE: Echo-AntiEcho

F2 - Processing parameters

SI: 1824
SF: 500.1330056 MHz
WDW: 0512E
SSB: 2
LB: 0.00 Hz
GB: 0
PC: 1.40

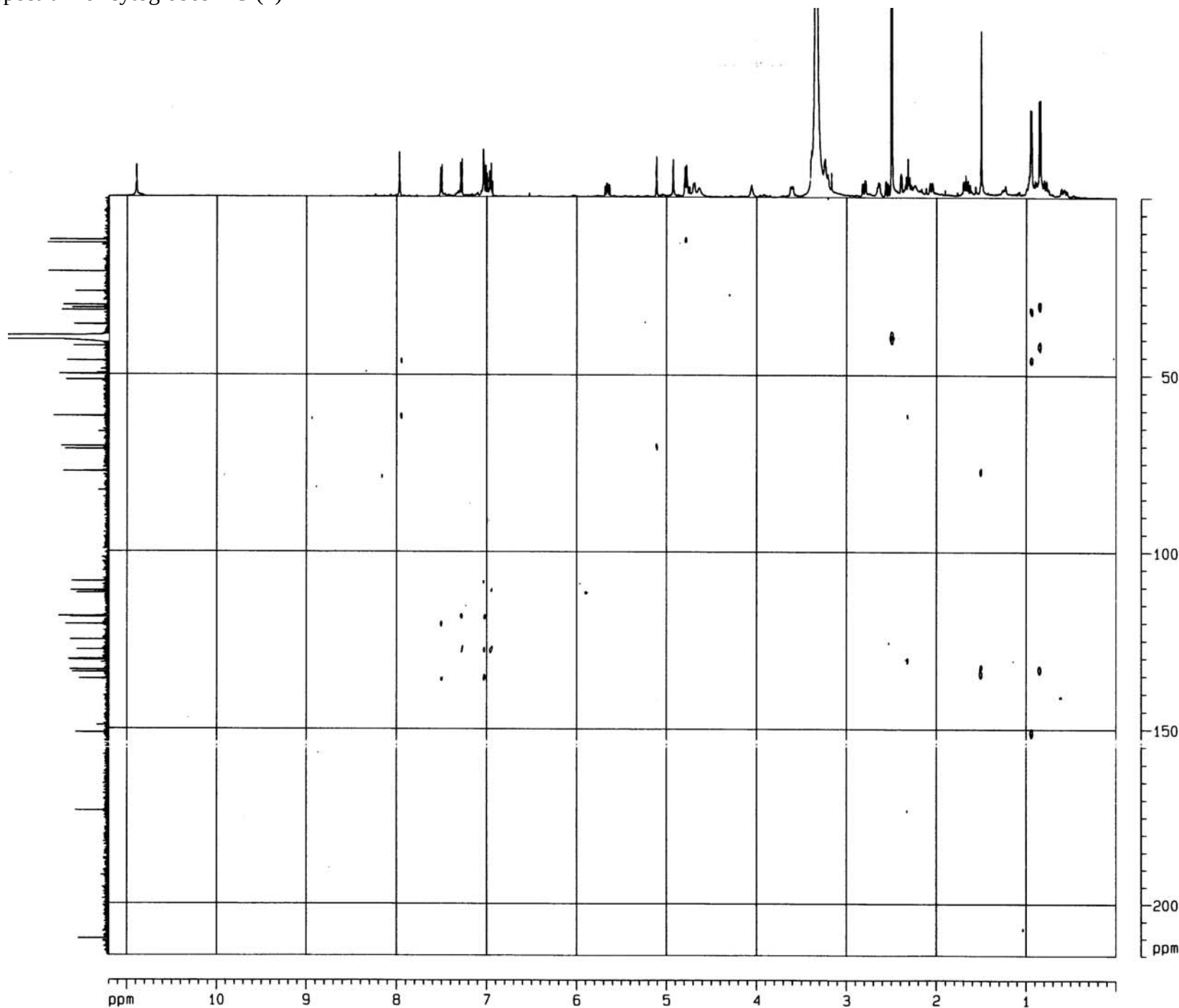
F1 - Processing parameters

SI: 1824
HC2: echo-anti-echo
SF: 125.7578630 MHz
WDW: 0512E
SSB: 2
LB: 0.00 Hz
GB: 0

3D NMR plot parameters

CK2: 20.00 cm
CK1: 15.00 cm
F2PL0: 11.200 ppm
F2L0: 5801.48 Hz
F2PH1: -0.000 ppm
F2H1: -0.00 Hz
F2PL0: 215.000 ppm
F2L0: 27537.54 Hz
F2PH1: -0.000 ppm
F2H1: -0.00 Hz
F2PMCH: 0.58000 ppm/s
F2DMCH: 200.07881 Hz/s
F2PPMCH: 14.33333 ppm/s

HMBC spectrum of cytoglobosin G (7)



Current Data Param
NAME en14-25
EXPNO 7
PROCNO 1

F2 - Acquisition Param
Data_ 20070530
Time 8.19
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG hbccg1pndq1
TD 2048
SOLVENT CDCl3
NS 16
DS 16
SWH 6510.417 Hz
FIDRES 3.178914 Hz
AQ 0.1574132 sec
RG 16384
DN 76.800 usec
DE 6.09 usec
TE 301.2 K
CHST2 145.0000000
CHST13 7.0000000
d0 0.0000300 sec
d1 1.5000000 sec
d2 0.00344828 sec
d6 0.07142857 sec
d16 0.00020000 sec
d10 0.00001656 sec
HOREST 0.0000000 sec
HOREF 1.5000000 sec

***** CHANNEL f1 ****
NUC1 1H
P1 11.40 usec
PL1 22.80 usec
PL1 -1.00 dB
SF01 500.131508 MHz

***** CHANNEL f2 ****
NUC2 13C
P3 11.00 usec
PL2 2.60 dB
SF02 125.7716224 MHz

***** GRADIENT CHANNEL *****
GPM1 SINE 100
GPM2 SINE 100
GPM3 SINE 100
GPX1 0.00 %
GPX2 0.00 %
GPX3 0.00 %
GPY1 0.00 %
GPY2 0.00 %
GPY3 0.00 %
GPZ1 50.00 %
GPZ2 30.00 %
GPZ3 40.10 %
P16 1000.00 usec

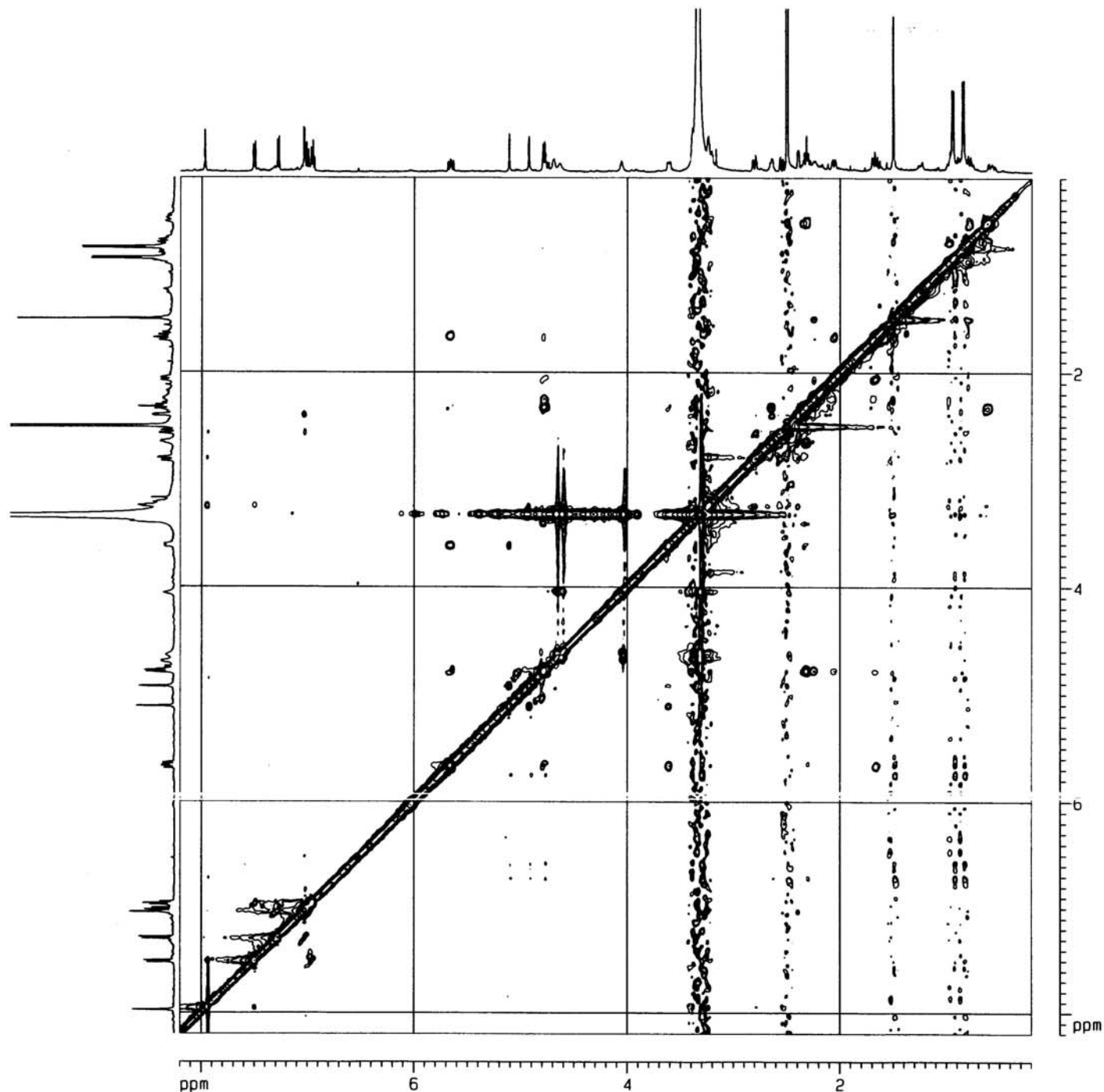
F1 - Acquisition param
NUC 13C
TD 147
SF01 125.7716 MHz
FIDRES 205.365158 Hz
SH 240.028 ppm
F1MODE QF

F2 - Processing param
SI 2048
SF 500.1306056 MHz
WDW nctan
SSB 0
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing param
SI 1024
NUC2 13C
SF 125.7578830 MHz
WDW QF
SSB 0
LB 0.00 Hz
GB 0

2D NMR plot param:
CX2 20.00 cm
CX1 15.00 cm
F2PL0 11.200 ppm
F2L0 5601.40 Hz
F2PHI -0.000 ppm
F2HI -0.00 Hz
F1PL0 215.000 ppm
F1L0 27037.94 Hz
F1PHI -0.000 ppm
F1HI -0.00 Hz
F2PNUC 0.56000 ppm
F2HNUC 280.07261 Hz/
F1PNUC 14.33333 ppm

NOESY spectrum of cytoglobosin G (7)



Current Data Parameters
NAME en14-25
EXPNO 8
PROCNO 1

F2 - Acquisition Parameters
Date_ 20070625
Time 18.31
INSTRUM av500
PROBHD 5 mm BBO BB-1H
PULPROG noesyph
TD 1024
SOLVENT CDCl3
NS 16
DS 8
SWH 5122.951 Hz
FIDRES 5.002882 Hz
AQ 0.1000900 sec
RG 64
DM 97.600 usec
DE 6.00 usec
TE 301.8 K
d0 0.00008309 sec
D1 2.00000000 sec
D8 0.89999998 sec
INO 0.00019520 sec
MCREST 0.00000000 sec
MCMRK 1.00000000 sec
STICNT 128

----- CHANNEL f1 -----
NUC1 1H
P1 11.40 usec
PL1 -1.00 dB
SF01 500.1323022 MHz

F1 - Acquisition parameters
ND0 1
TD 512
SF01 500.1323 MHz
FIDRES 10.005763 Hz
SW 10.243 ppm
FnMODE States-TPPI

F2 - Processing parameters
SI 1024
SF 500.1300056 MHz
WDW OSINE
SSB 2
LB 0.00 Hz
GB 0
PC 1.40

F1 - Processing parameters
SI 1024
MC2 States-TPPI
SF 500.1300056 MHz
WDW OSINE
SSB 2
LB 0.00 Hz
GB 0

2D NMR plot parameters
CX2 15.00 cm
CX1 15.00 cm
F2PL0 8.200 ppm
F2L0 4101.07 Hz
F2PHI 0.200 ppm
F2HI 100.03 Hz
F1PL0 8.200 ppm
F1L0 4101.07 Hz
F1PHI 0.200 ppm
F1HI 100.03 Hz
F2PPMCH 0.53333 ppm/cm
F2HZCH 266.73599 Hz/cm
F1PPMCH 0.53333 ppm/cm
F1HZCH 266.73599 Hz/cm