

Supplementary material (JA991050A, ^{13}C - and ^{15}N NMR... by Wang et al.)

The page numbers are indicated at the bottom-right corner of each page.

S2: 2D-INADEQUATE spectrum of the authentic *trans, trans*-farnesyl acetate (natural abundance) in chloroform(60%). Peak marked S is due to the solvent.

NMR spectral collection for the intact (3¹R)-[E, E]BChl *c_F* in methanol-*d*₄

S3: ^{13}C DEPT spectrum of natural abundance BChl *c* (8~65ppm).

S4: ^{13}C DEPT spectrum of natural abundance BChl *c* (8~125ppm).

S5: 1D proton-decoupled ^{13}C spectrum of the fractionally ^{13}C -enriched BChl *c*(0~200ppm).

S6: 1D proton-decoupled ^{13}C spectrum of the fractionally ^{13}C -enriched BChl *c*(8~52ppm).

S7: 1D proton-decoupled ^{13}C spectrum of the fractionally ^{13}C -enriched BChl *c*(115~155ppm).

S8: ^{13}C DEPT spectrum of the fractionally ^{13}C -enriched BChl *c*(14~31ppm).

S9: ^{13}C DEPT spectrum of the fractionally ^{13}C -enriched BChl *c*(6~135ppm).

S10: 2D long-range ^1H - ^{13}C correlation(HMBC) spectrum of natural abundance BChl *c*. (^1H : 1~5.5ppm; ^{13}C : 125~180ppm).

S11: 2D-INADEQUATE spectrum of the fully ^{13}C -labeled BChl *c*.

NMR spectral collection for the intact (3¹R)-[E, E]BChl *c_F* in CCl_4

S12: 1D proton-decoupled ^{13}C spectrum of natural abundance BChl *c*(100~200ppm).

S13: 1D proton-decoupled ^{13}C spectrum of natural abundance BChl *c*(0~70ppm).

S14: 1D proton-decoupled ^{13}C spectrum of the fractionally ^{13}C -enriched BChl *c*(10~27ppm).

S15: 1D proton-decoupled ^{13}C spectrum of the fractionally ^{13}C -enriched BChl *c*(28~65ppm).

S16: 1D proton-decoupled ^{13}C spectrum of the fractionally ^{13}C -enriched BChl *c*(116~144ppm).

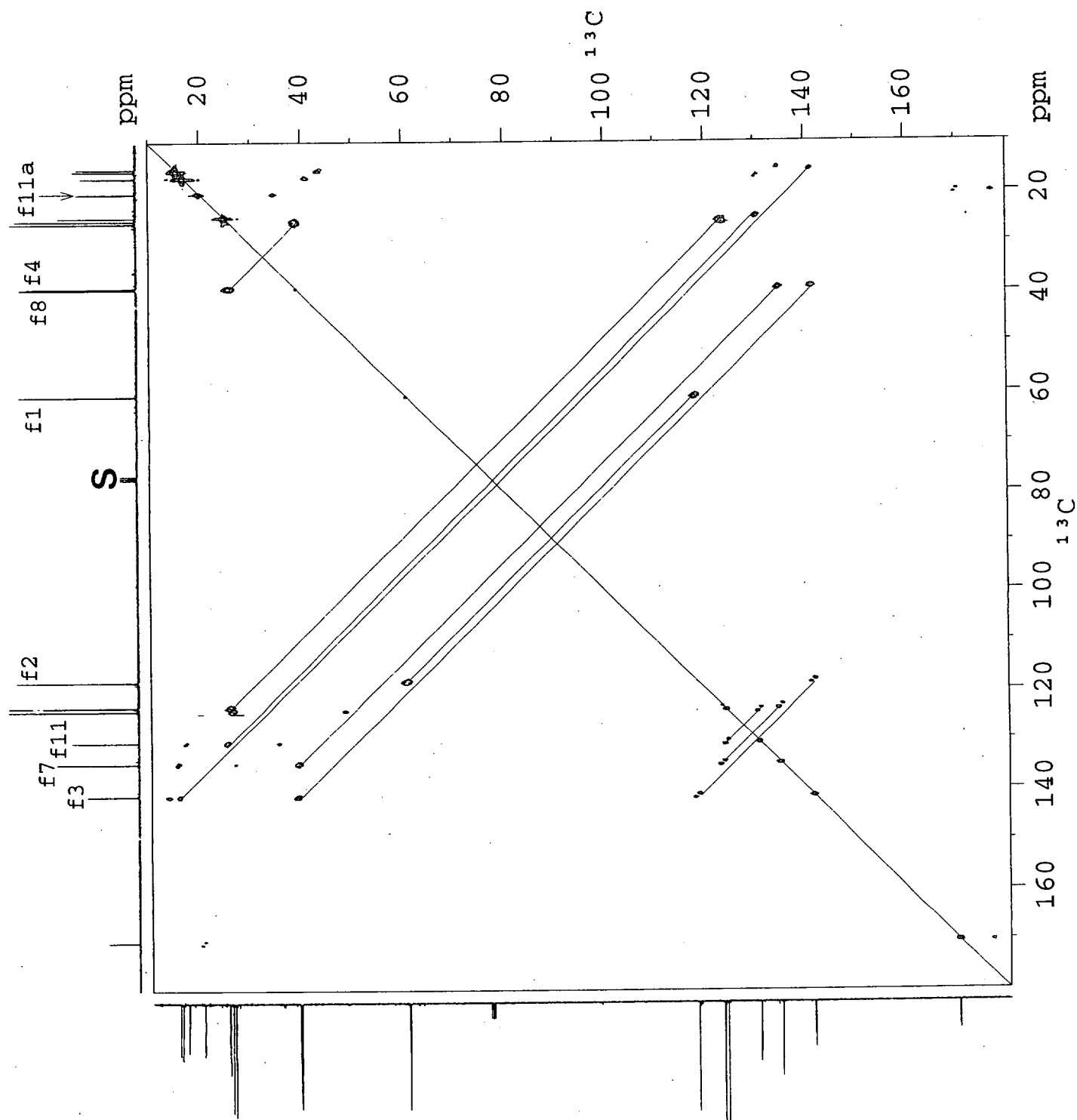
S17: ^{13}C DEPT spectrum of the fractionally ^{13}C -enriched BChl *c*(10~27ppm).

S18: ^{13}C DEPT spectrum of the fractionally ^{13}C -enriched BChl *c*(10~53ppm).

S19: ^{13}C DEPT spectrum of the fractionally ^{13}C -enriched BChl *c*(8~130ppm).

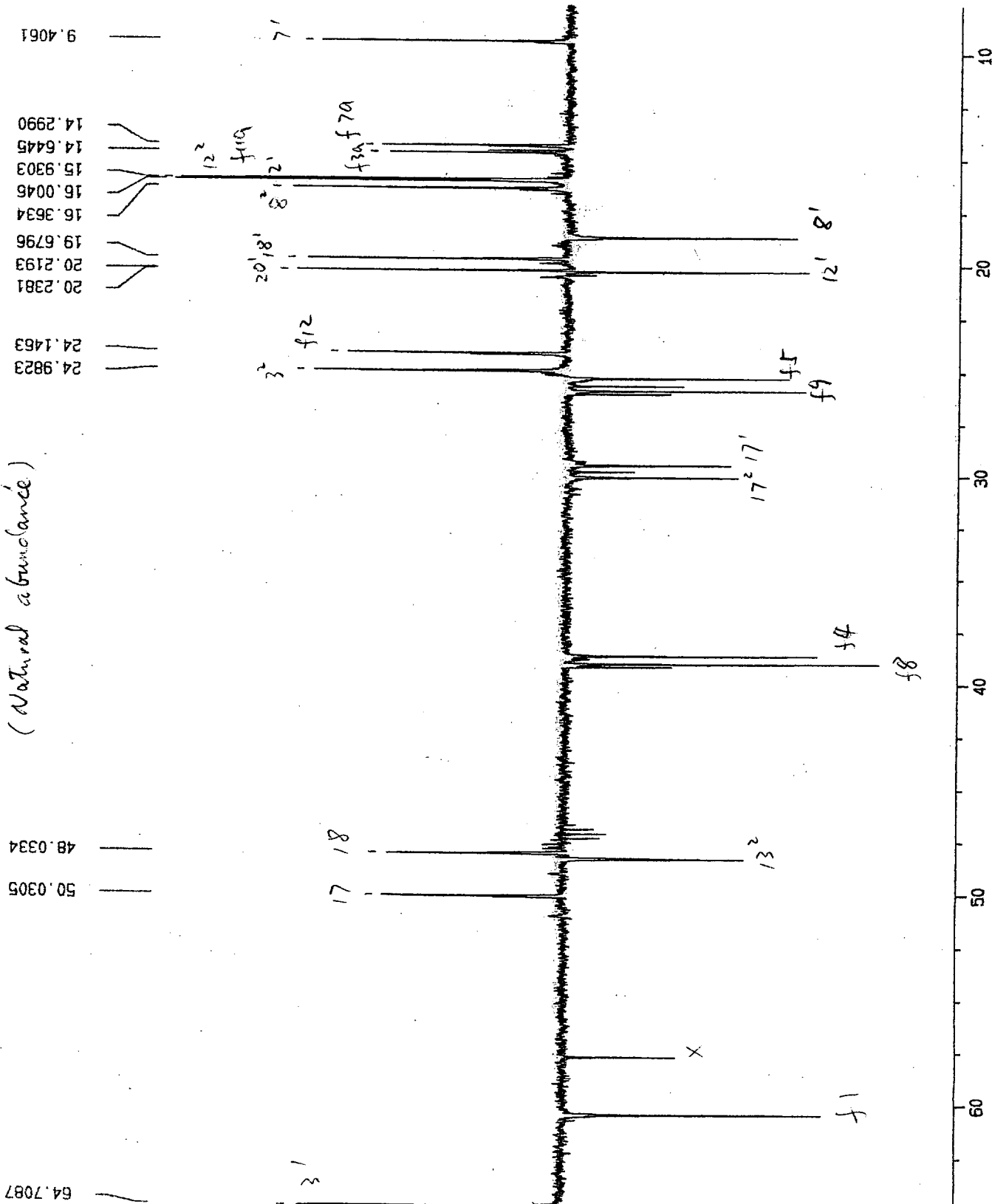
S20: 2D-INADEQUATE spectrum of the fully ^{13}C -labeled BChl *c*(full scale).

S21: 2D-INADEQUATE spectrum of the fully ^{13}C -labeled BChl *c*(F2: 10~29ppm, F1: 10~150ppm).



BCh1 c in MeOD

(Natural abundance)



Current Data Parameters
 NAME BCh1c
 EXPNO 32
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980112
 Time 21.04
 INSTRUM dry400
 PROBHD 5 mm Multinu
 PULPROG dept135
 TD 32768
 SOLVENT MeOH
 NS 17279
 DS 8

SWH 22222.223 Hz
 FIDRES 0.678168 Hz
 AQ 0.7373300 sec
 RG 16384
 DW 22.500 usec
 DE 7.14 usec
 TE 300.0 K

P1 6.50 usec
 P2 13.0 usec
 P3 8.10 usec
 P4 15.2 usec
 CNST2 140.0000000
 d2 0.0035714 sec
 d12 0.000200 sec
 DELTA 0.0000083 sec
 O1 1.5000000 sec
 PL2 -3.00 dB
 SFO2 400.1318000 MHz
 NUC2 1H

SFO1 100.6227290 MHz
 NUC1 13C
 PL1 -3.00 dB
 PL12 19.00 dB
 DE 7.14 usec
 CPDPRG2 waltz16
 PCPD2 100.00 usec

F2 - Processing parameters
 SI 32768
 SF 100.6127983 MHz
 MDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 66.001 ppm
 F1 6640.50 Hz
 F2P 7.722 ppm
 F2 776.90 Hz
 PPMCM 2.64904 ppm/cm
 HZCM 266.52731 Hz/cm

BChI c in MeOD

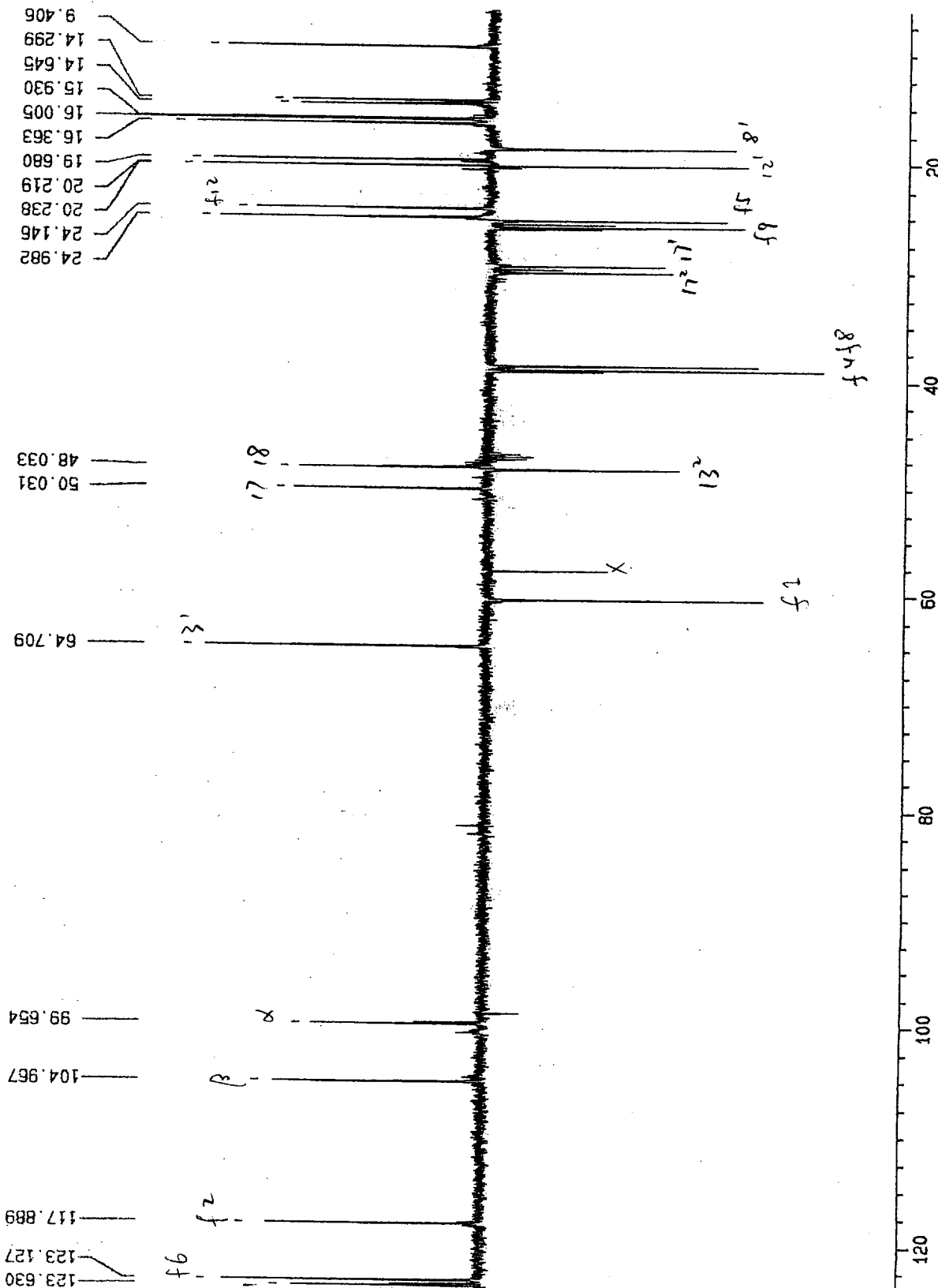
Current Data Parameters
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 EXPNO 32
 PROCNO 1

F2 - Acquisition Parameters

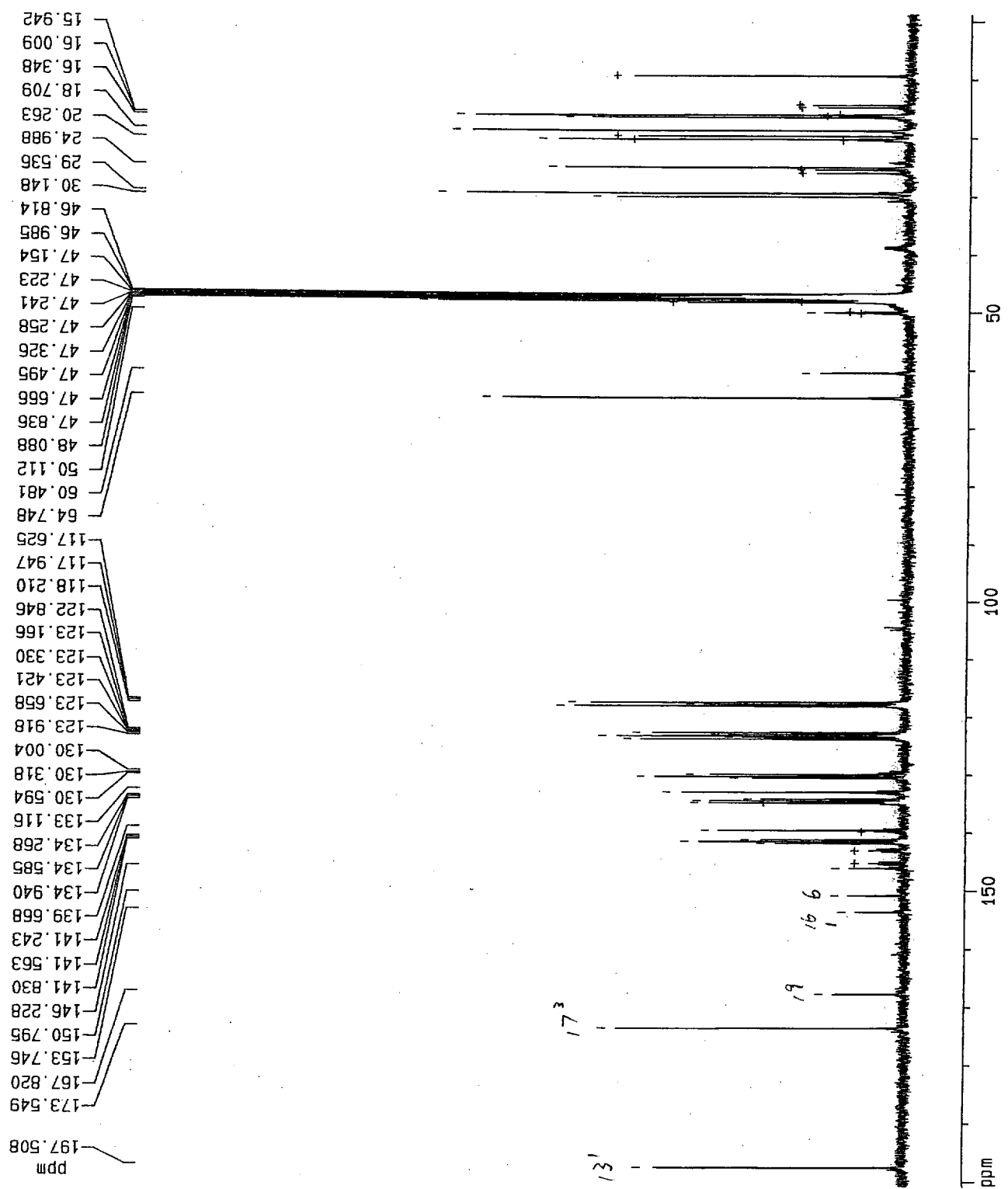
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 Time 21.04
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG dept135
 TD 32768
 SOLVENT MeOH
 NS 17279
 DS 8
 SWH 2222.223 Hz
 FIDRES 0.678168 Hz
 AQ 0.7373300 sec
 RG 16384
 DM 22.500 usec
 DE 7.14 usec
 TE 300.0 K
 P1 6.50 usec
 P2 13.0 usec
 P3 8.10 usec
 P4 16.2 usec
 CNST2 140.0000000
 d2 0.0035714 sec
 d12 0.0000200 sec
 DELTA 0.0000083 sec
 D1 1.50000000 sec
 PL2 -3.00 dB
 SF02 400.1318000 MHz
 NUC2 1H
 SF01 100.6227290 MHz
 NUC1 13C
 PL1 -3.00 dB
 PL12 19.00 dB
 DE 7.14 usec
 CPDPRG2 waltz16
 PCPD2 100.00 usec

F2 - Processing parameters
 SI 32768
 SF 100.6127983 MHz
 WDW EM
 SSB 0
 LB 1.00 Hz
 GB 0
 PC 1.00

1D NMR plot parameters
 CX 22.00 cm
 F1P 126.984 ppm
 F1 12776.25 Hz
 F2P 6.000 ppm
 F2 603.71 Hz
 PPMCM 5.49927 ppm/ci
 HZCM 553.29718 Hz/cm



CH3-13C00Na enriched BChl c (F1) in MeOD



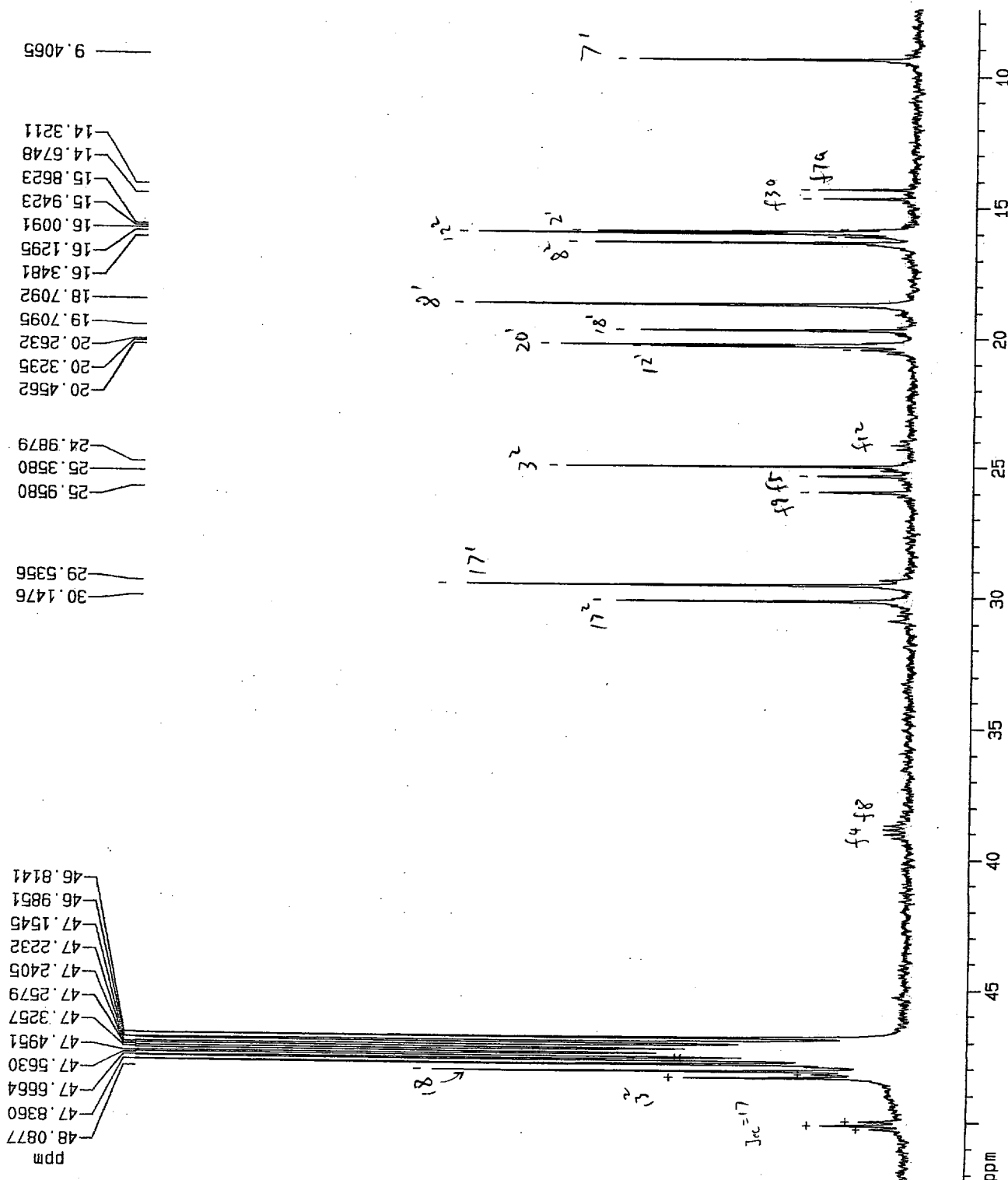
Current Data Parameters
 NAME nozarruc
 EXPNO 12
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980224
 Time 11.03
 INSTRUM drx500
 PROBHD 5 mm Multinu
 PULPROG zgpg30
 TD 32768
 SOLVENT D2O
 NS 4631
 DS 2
 SWH 32679.738 Hz
 FIDRES 0.997306 Hz
 AQ 0.5014004 sec
 RG 16384
 DW 15.300 usec
 DE 6.00 usec
 TE 300.0 K
 D12 0.00002000 sec
 PL13 18.00 dB
 D1 1.50000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 500.1325006 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 18.00 dB
 P1 7.20 usec
 DE 6.00 usec
 SF01 125.7728299 MHz
 NUC1 13C
 PL1 0.00 dB
 D11 0.03000000 sec

F2 - Processing parameters
 SI 32768
 SF 125.7578226 MHz
 WDW EM
 SSB 0
 LB 2.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 200.946 ppm
 F1 25270.55 Hz
 F2P -1.265 ppm
 F2 -159.05 Hz
 PPMCM 10.11054 ppm/cm
 HZCM 1271.47986 Hz/cm

CH3-13C00Na enriched BChl c (F1) in MeOD



48.0877
47.8360
47.6664
47.5630
47.4951
47.3257
47.2579
47.2405
47.2232
47.1545
46.9851
46.8141

30.1476
29.5356

25.9580
25.3580
24.9879

20.4562
20.3235
20.2632
19.7095
18.7092
16.3481
16.1295
16.0091
15.9423
15.8623
14.6748
14.3211

9.4065

Current Data Parameters
NAME nozarruc
EXPNO 12
PROCNO 1

F2 - Acquisition Parameters

Date_ 980224
Time 11.03
INSTRUM drx500
PROBHD 5 mm Multinu
PULPROG zgpg30
TD 32768
SOLVENT D2O
NS 4631
DS 2
SMH 32679.738 Hz
FIDRES 0.997306 Hz
AQ 0.5014004 sec
RG 16384
DM 15.300 usec
DE 6.00 usec
TE 300.0 K
D12 0.0002000 sec
PL13 18.00 dB
D1 1.5000000 sec
CPDPRG2 waltz16
PCPD2 100.00 usec
SF02 500.1325006 MHz
NUC2 1H
PL2 -6.00 dB
PL12 18.00 dB
P1 7.20 usec
DE 6.00 usec
SF01 125.7728299 MHz
NUC1 13C
PL1 0.00 dB
D11 0.03000000 sec

F2 - Processing parameters

SI 32768
SF 125.7578226 MHz
WDW EM
SSB 0
LB 2.00 Hz
GB 0
PC 1.40

1D NMR plot parameters

CX 20.00 cm
F1P 52.218 ppm
F1 6566.88 Hz
F2P 7.474 ppm
F2 939.90 Hz
PPMCM 2.23723 ppm/cm
HZCM 281.34872 Hz/cm

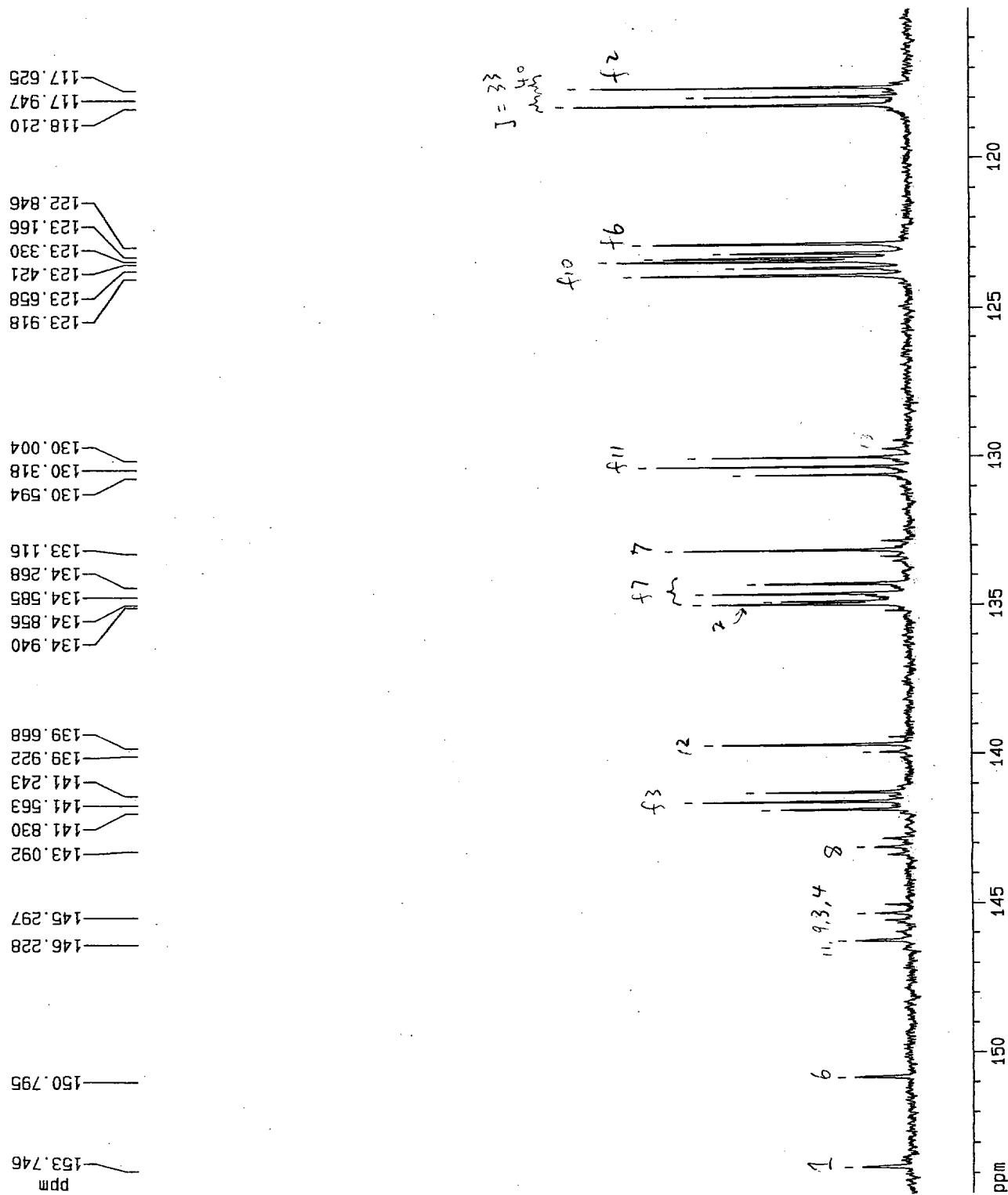
CH3-13COONa enriched BCh1 c (F1) in MeOD

Current Data Parameters
 NAME nozarruc
 EXPNO 12
 PROCNO 1

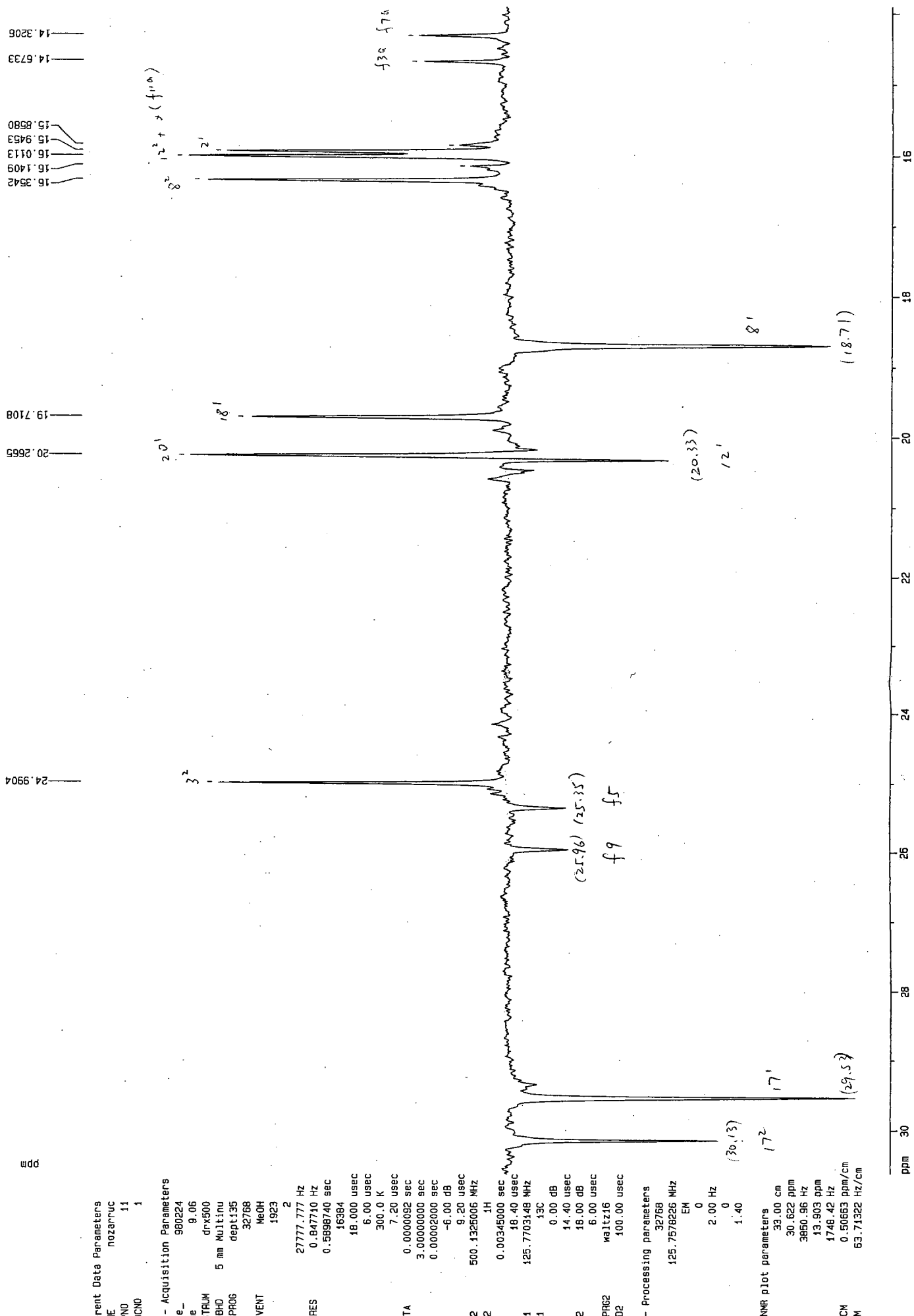
F2 - Acquisition Parameters
 Date_ 980224
 Time 11.03
 INSTRUM drx500
 PROBHD 5 mm Multinu
 PULPROG zgpg30
 TD 32768
 SOLVENT D2O
 NS 4631
 DS 2
 SWH 32679.738 Hz
 FIDRES 0.997305 Hz
 AQ 0.5014004 sec
 RG 16384
 DW 15.300 usec
 DE 6.00 usec
 TE 300.0 K
 D12 0.0002000 sec
 PL13 18.00 dB
 D1 1.5000000 sec
 CPDPRG2 waltz16
 PCPD2 100.00 usec
 SF02 500.1325006 MHz
 NUC2 1H
 PL2 -6.00 dB
 PL12 48.00 dB
 P1 7.20 usec
 DE 6.00 usec
 SF01 125.7728299 MHz
 NUC1 13C
 PL1 0.00 dB
 D11 0.0300000 sec

F2 - Processing parameters
 SI 32768
 SF 125.7578225 MHz
 WDW EM
 SSB 0
 LB 2.00 Hz
 GB 0
 PC 1.40

1D NMR plot parameters
 CX 20.00 cm
 F1P 154.664 ppm
 F1 19450.27 Hz
 F2P 115.046 ppm
 F2 14467.92 Hz
 PPMCM 1.98093 ppm/cm
 HZCM 249.11748 Hz/cm



CH3-13COONa enriched Bchl c (F1) in MeOD



Current Data Parameters
 nozarruc
 PNO 11
 DCNO 1

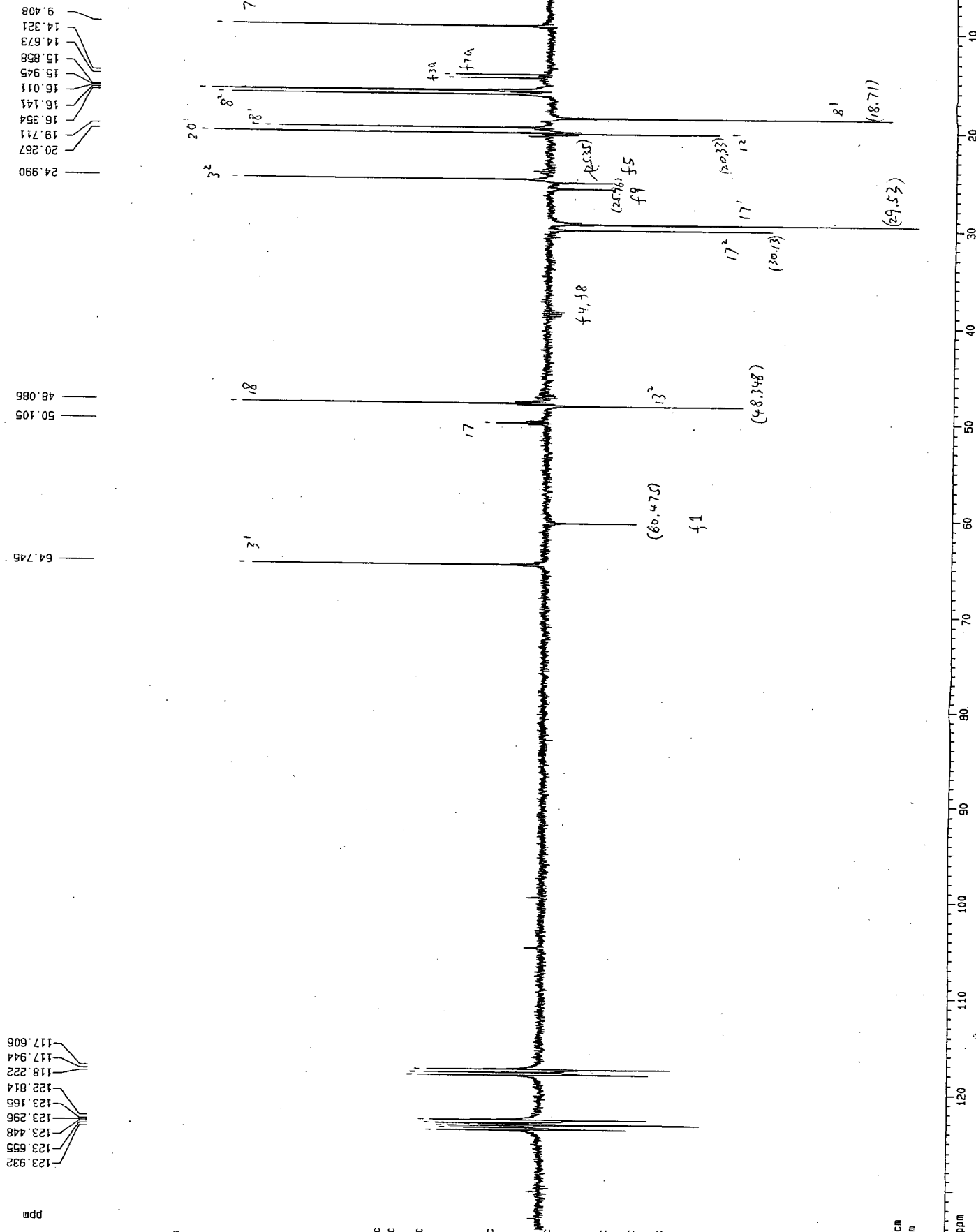
Acquisition Parameters

980224
 27777.777 Hz
 0.647710 Hz
 0.5898740 sec
 16384
 18.000 usec
 6.00 usec
 300.0 K
 7.20 usec
 0.0000082 sec
 3.00000000 sec
 0.00002000 sec
 -6.00 dB
 9.20 usec
 500.1325006 MHz

Processing Parameters
 0.00345000 sec
 18.40 usec
 125.7703148 MHz
 13C
 0.00 dB
 14.40 usec
 18.00 dB
 6.00 usec
 waltz16
 100.00 usec

NMR Plot Parameters
 33.00 cm
 30.622 ppm
 3850.96 Hz
 13.903 ppm
 1748.42 Hz
 0.50653 ppm/cm
 63.71322 Hz/cm

CH3-13COONa enriched BCh1 c (F1) in MeOD



Experiment Parameters
 nozarruc
 PNO 11
 PCNO 1

Acquisition Parameters
 980224
 9.06
 DRX500
 5 mm Multinu
 BHHD
 PROG dept135
 32768
 MeOH
 1923

RES
 27777.777 Hz
 0.847740 Hz
 0.5898740 sec
 16384
 18.000 usec
 6.00 usec
 300.0 K
 7.20 usec
 0.000092 sec
 3.00000000 sec
 0.00002000 sec
 -6.00 dB
 9.20 usec
 500.1325006 MHz
 1H

TA
 0.00345000 sec
 18.40 usec
 125.7703148 MHz
 13C
 0.00 dB
 14.40 usec
 18.00 dB
 6.00 usec
 waltz16
 100.00 usec

Processing parameters
 32768
 125.7578226 MHz
 EM
 0
 2.00 Hz
 0
 1.40

13C NMR plot parameters
 33.00 cm
 134.309 ppm
 16890.37 Hz
 5.826 ppm
 732.66 Hz
 3.89342 ppm/cm
 489.62762 Hz/cm

Current Data Parameters
 NAME BChlc
 EXPNO 66
 PROCNO 2

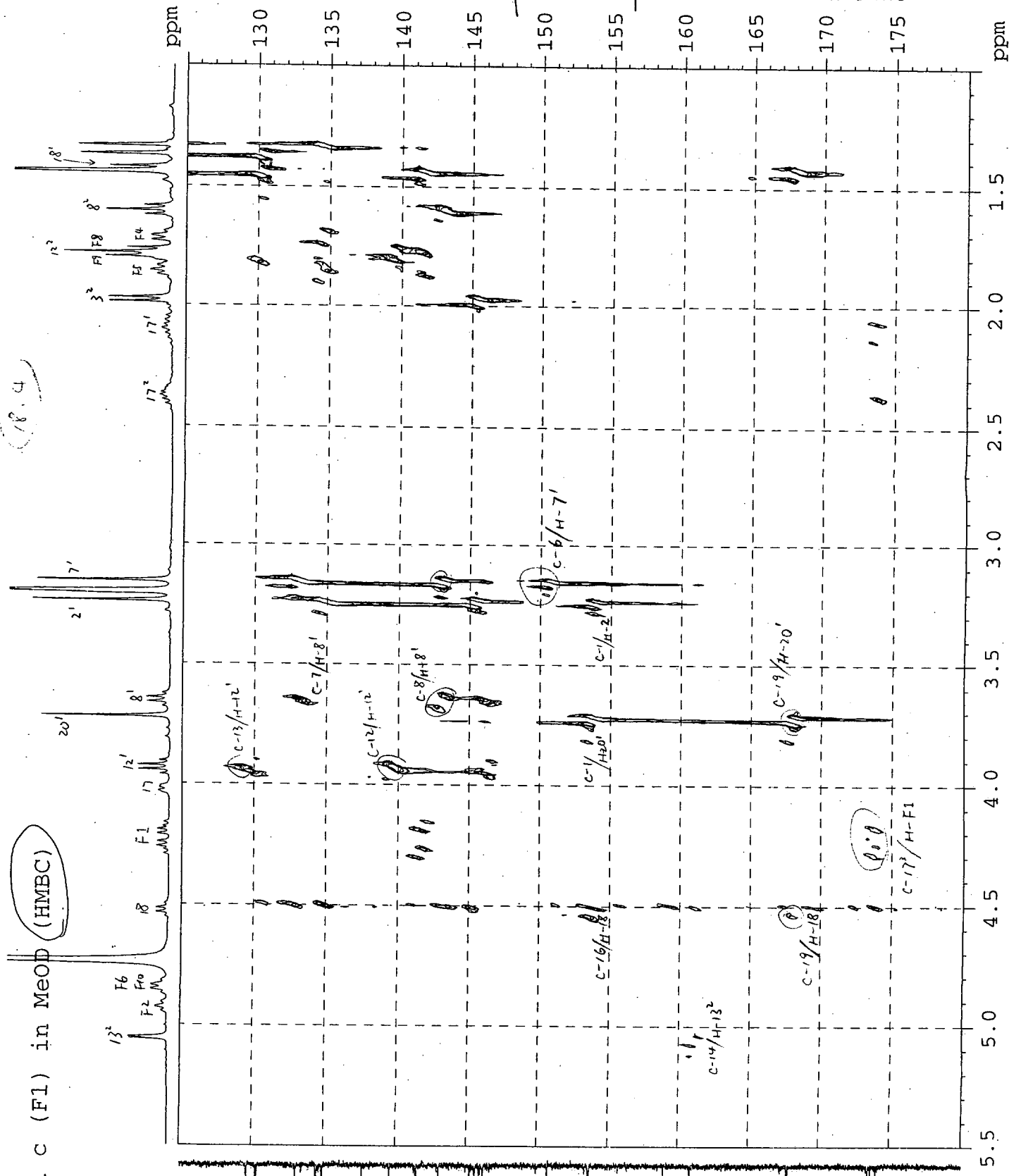
F2 - Acquisition Parameters
 Date_ 990108
 Time 18.44
 INSTRUM dx400
 PROBRD 5 mm TXI (13
 PULPROG invgaglsplrd

TD 2048
 SOLVENT MeOH
 NS 180
 DS 16
 SWH 4789.272 Hz
 FIDRES 2.338512 Hz
 AQ 0.2138612 sec
 RG 32768
 DW 104.400 usec
 DE 4.50 usec
 TE 300.0 K
 F1 7.50 usec
 F2 15.0 usec
 G0 0.0000030 sec
 CNST2 145.0000000
 d2 0.0034483 sec
 d13 0.0000030 sec
 d1 1.8999998 sec
 F3 11.40 usec
 SFO2 100.6227903 MHz
 NUC2 13C
 PL2 -6.00 dB
 D6 0.1000000 sec
 P16 0.1000.00 usec
 D16 0.00010000 sec
 DE 4.50 usec
 SFO1 400.1318500 MHz
 NUC1 1H
 PL1 0.00 dB
 IN0 0.00002485 sec

F1 - Acquisition parameters
 ND0 2
 TD 357
 SFO1 100.6228 MHz
 FIDRES 56.371311 Hz
 SW 200.000 ppm

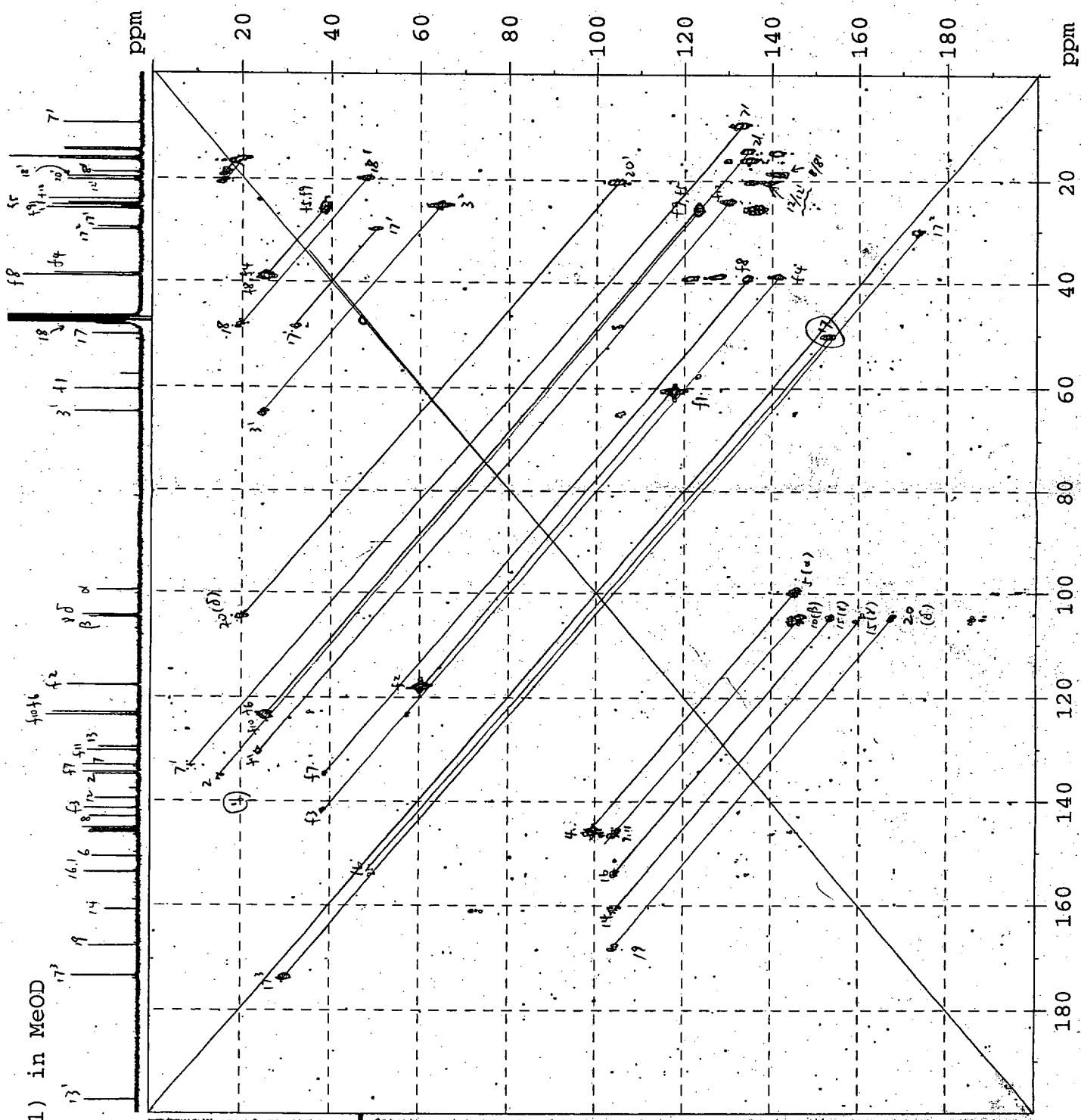
F2 - Processing parameters
 SI 2048
 SF 400.1300487 MHz
 WDW QSI
 SSB 2
 LB 0.00 Hz
 GB 0
 PC 1.40

F1 - Processing parameters
 SI 512
 MC2 OF
 SF 100.6127852 MHz
 WDW QSI
 SSB 2
 LB 0.00 Hz
 GB 0



h1 c (F1) in MeOD (HMBC)

Chl c (F1) in MeOD



Current Data Parameters		F2 - Acquisition Parameters	
NAME	BChlc	Date_	980721
EXPNO	59	Time	17.50
PROCNO	1	INSTRUM	drx400
		PROBHD	5 mm Multinu
		PULPROG	inadys
		TD	2078
		SOLVENT	MeOH
		NS	96
		DS	16
		SWH	2222.223 Hz
		FIDRES	10.850695 Hz
		AQ	0.0461300 sec
		RG	16384
		DW	22.500 usec
		DE	7.14 usec
		TE	300.0 K
		F1	6.50 usec
		P2	13.0 usec
		G0	0.0000030 sec
		CNST3	45
		d4	0.0055556 sec
		PL12	19.00 dB
		CPDPRG2	waltz16
		PCPD2	100.00 usec
		SFO2	400.1319227 MHz
		NUC2	1H
		PL2	-3.00 dB
		D1	4.6999981 sec
		DE	7.14 usec
		SFO1	100.6227290 MHz
		NUC1	13C
		PL1	-3.00 dB
		IN0	0.00004500 sec
F1 - Acquisition parameters		F2 - Processing parameters	
ND0	1	SI	2048
TD	512	SF	100.6127983 MHz
SFO1	100.6227 MHz	WDW	QSINE
FIDRES	43.402779 Hz	SSB	2
SW	220.847 ppm	LB	0.00 Hz
		GB	0
		PC	1.00
F1 - Processing parameters		F2 - Processing parameters	
SI	512	SI	512
MC2	OF	MC2	OF
SF	100.6127983 MHz	SF	100.6127983 MHz
WDW	QSINE	WDW	QSINE
SSB	2	SSB	2
LB	0.00 Hz	LB	0.00 Hz
GB	0	GB	0
PC	1.00	PC	1.00

Bchl c in CCl4
Natural abundance

ppm

130.365
124.426
124.150
123.666
123.413
118.771
117.139
106.371
105.702
104.896
103.734

Percent Data Parameters
E nozarruc 2
NO 2
CNO 2

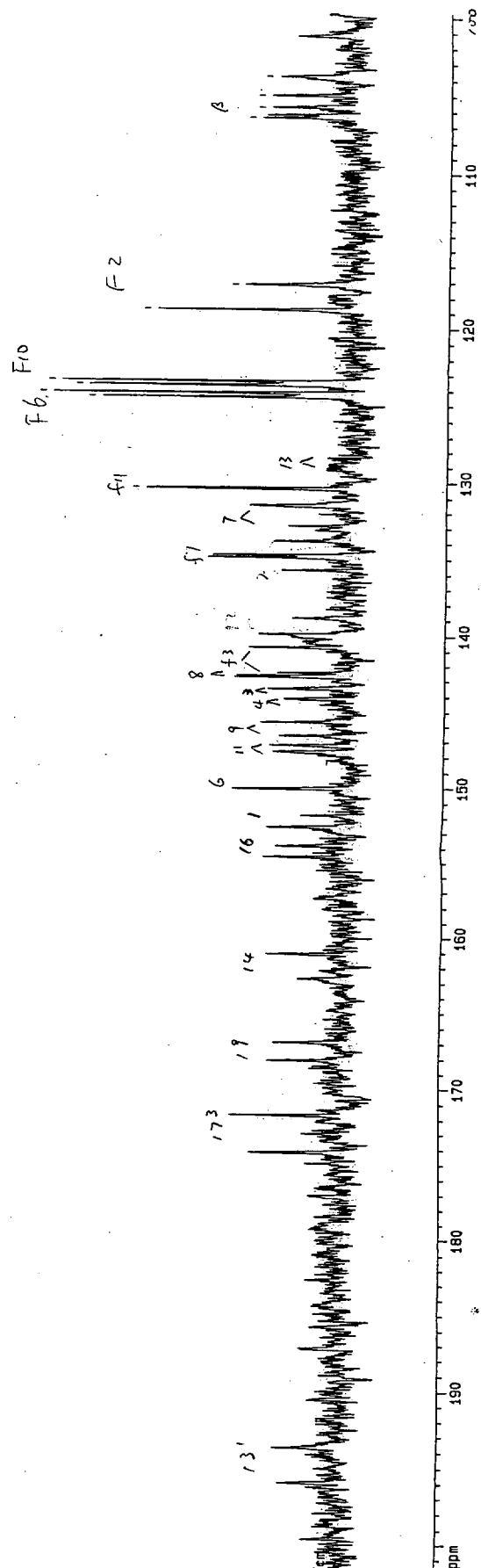
Acquisition Parameters

970901
15.19
drx500
5 mm Nutlinu
zgpg30
32768
D20
126227
2
32679.738 Hz
0.997306 Hz
0.5014004 sec
4697.6
15.300 usec
6.00 usec
300.0 K
0.00002000 sec
18.00 dB
0.30000001 sec
waltz16
100.00 usec
500.1325006 MHz
1H

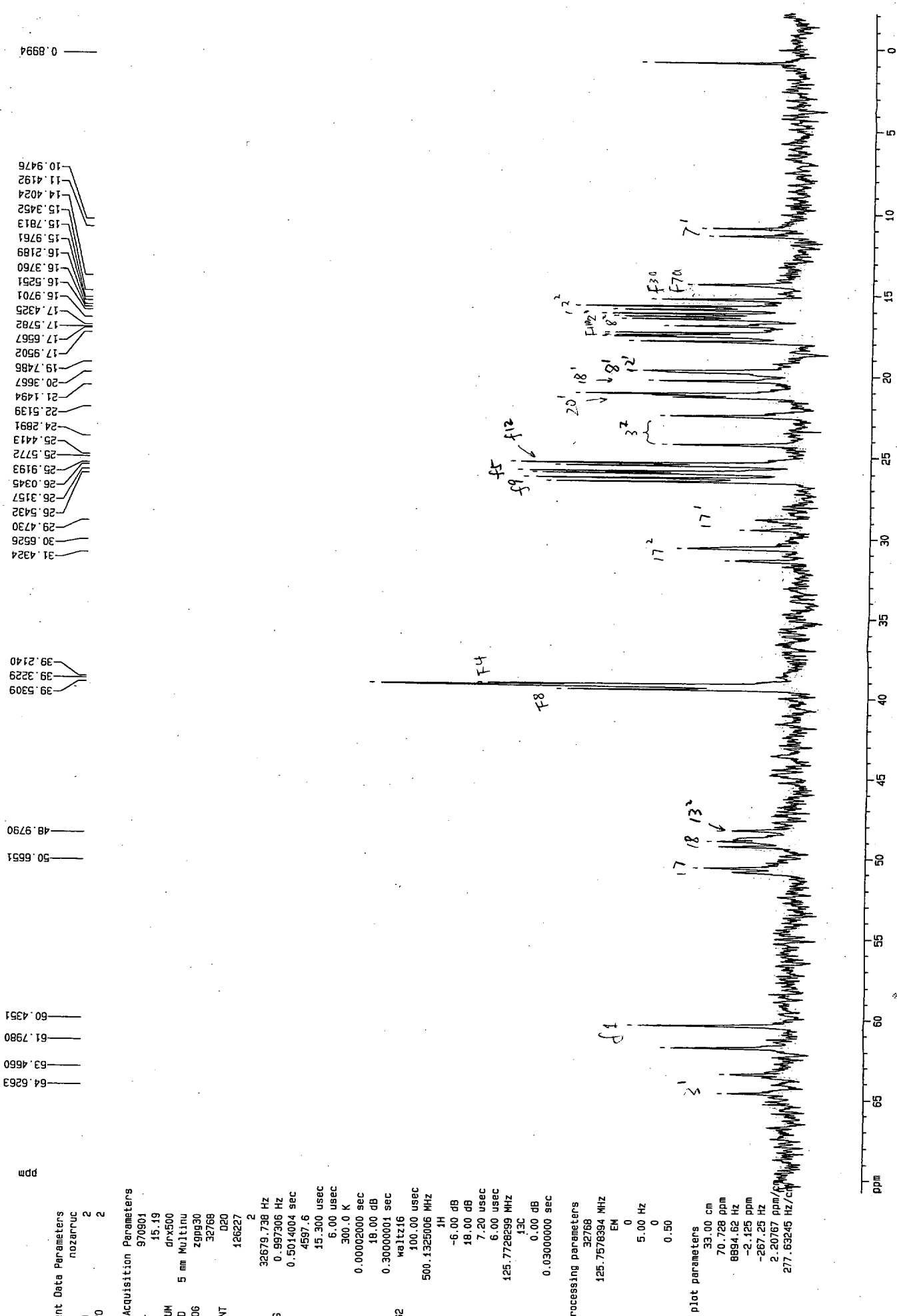
-6.00 dB
18.00 dB
7.20 usec
6.00 usec
125.7728295 MHz
13C
0.00 dB
0.03000000 sec

Processing parameters
32768
125.7578394 MHz
EM
0
5.00 Hz
0
0.50

IR plot parameters
33.00 cm
201.520 ppm
25342.70 Hz
99.637 ppm
12537.72 Hz
3.09563 ppm/cm
388.02957 Hz/cm



Bchl c in CCl4
Natural abundance



Experiment Parameters
 40 nozarruc
 2
 2

Acquisition Parameters
 970901
 15.19
 RUM
 5 mm Multinu
 HD
 200030
 ROG
 32768
 020
 126227
 2

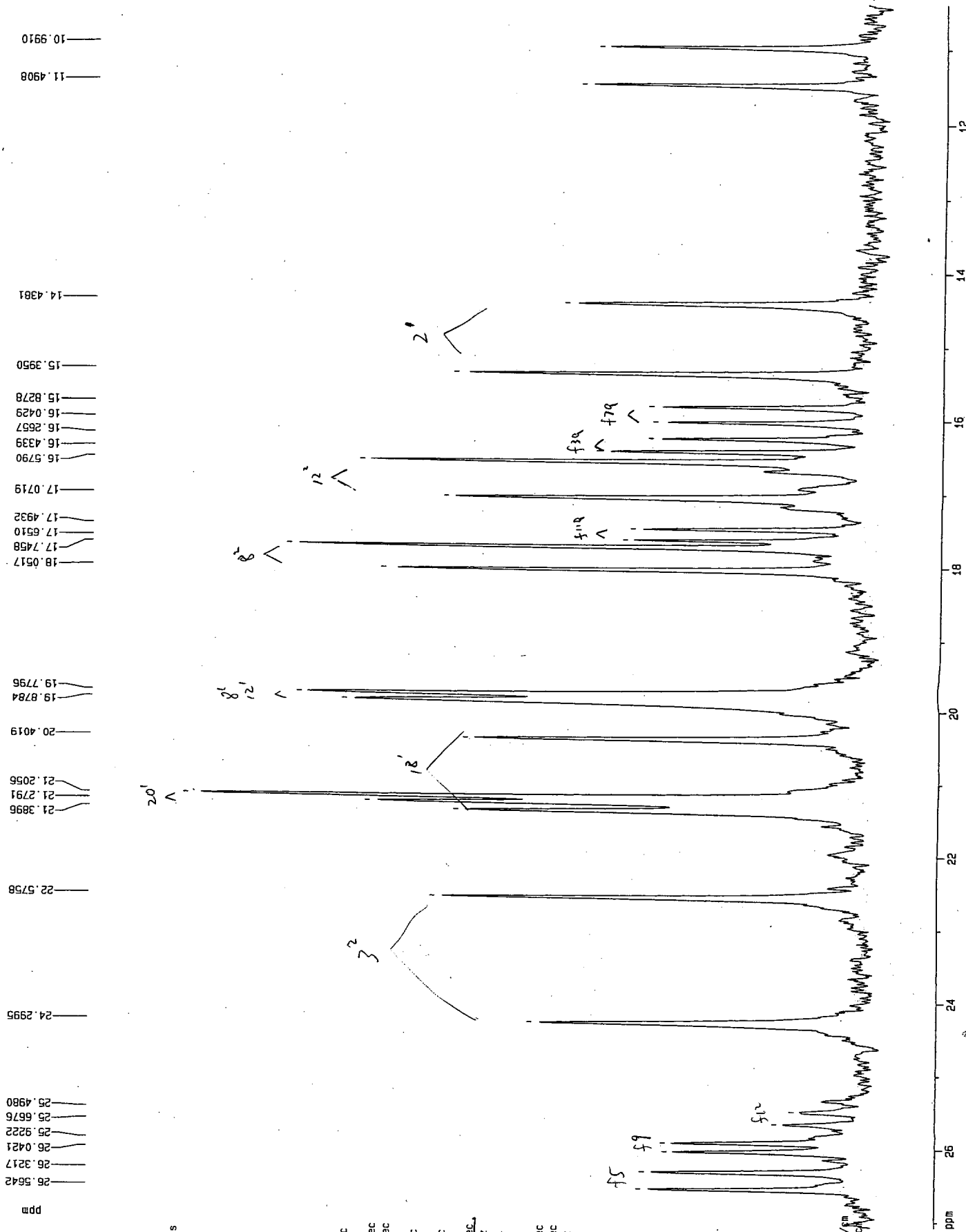
ES
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 0.997306 Hz
 0.5014004 sec
 4597.6
 15.300 usec
 6.00 usec
 300.0 K
 0.00002000 sec
 18.00 dB
 0.30000001 sec
 waltz16
 100.00 usec
 500.1323006 MHz

4H
 -6.00 dB
 18.00 dB
 7.20 usec
 6.00 usec
 125.7728299 MHz
 13C
 0.00 dB
 0.03000000 sec

Processing parameters
 32768
 125.7576394 MHz
 EM
 0
 5.00 Hz
 0
 0.50

R plot parameters
 33.00 cm
 70.728 ppm
 8884.62 Hz
 -2.125 ppm
 -267.25 Hz
 2.20767 ppm/cm
 277.63245 Hz/cm

CH3-13COONa enriched BChl c (F1) in CCl4



Current Data Parameters
 IE nozarruc
 PNO 14
 PCNO 2

Acquisition Parameters
 e_ 980302
 e 12.33
 TRUM dry500
 BHD 5 mm Multinu
 PPROG zgpg30
 32768
 D20
 11385

RES
 27777.777 Hz
 0.847710 Hz
 0.5898740 sec
 16384

3
 0.0002000 sec
 6.00 usec
 300.0 K
 16.00 dB
 1.50000000 sec
 waitz16
 100.00 usec
 500.1325006 MHz

1H
 -6.00 dB
 16.00 dB
 7.20 usec
 6.00 usec
 125.7703148 MHz
 13C
 0.00 dB
 0.0300000 sec

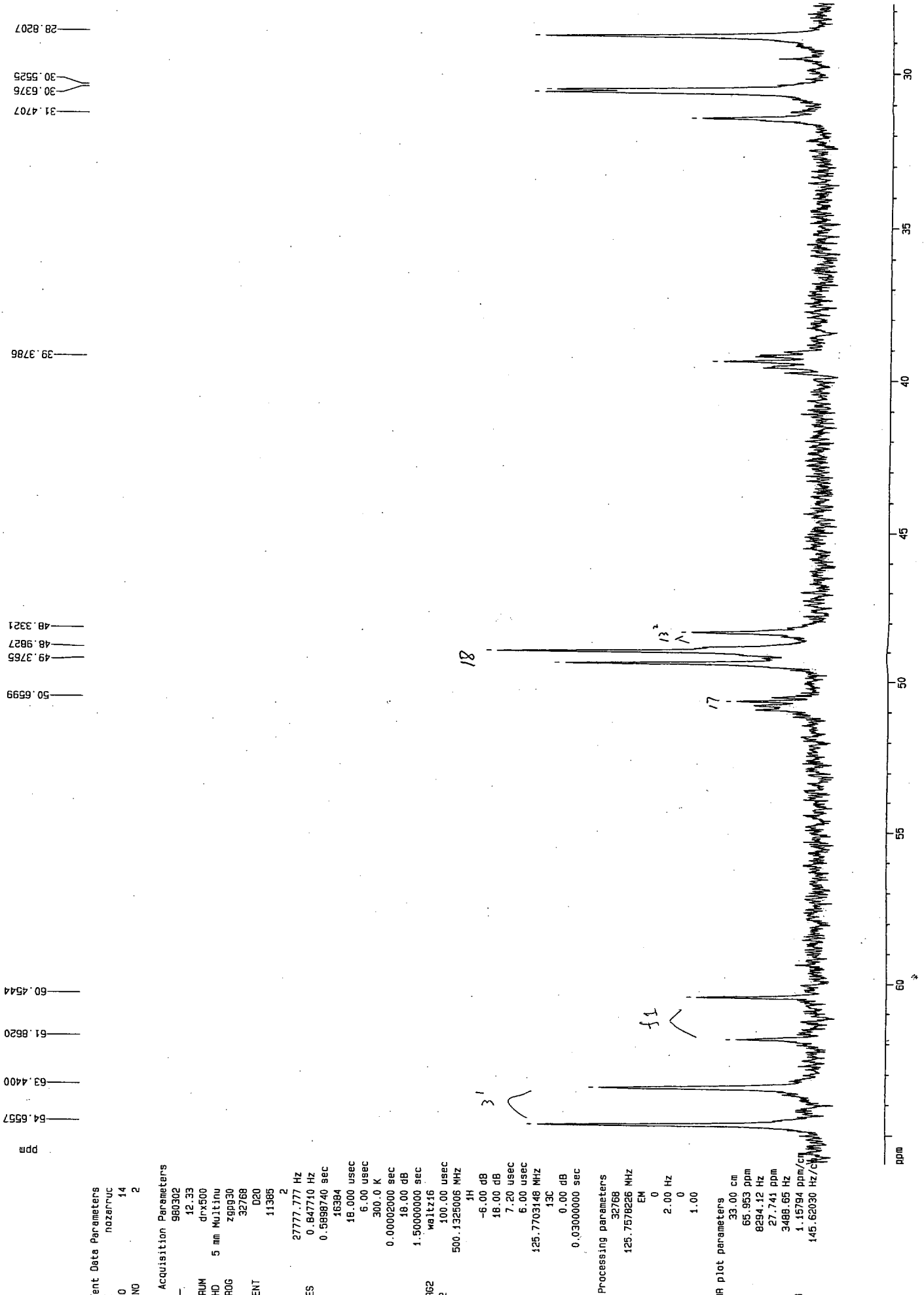
Processing parameters
 32768
 125.7578226 MHz
 EN
 0
 2.00 Hz
 0
 1.00

NMR plot parameters
 33.00 cm
 27.074 ppm
 3404.82 Hz
 10.409 ppm
 1308.97 Hz
 0.50502 ppm/cm
 63.51041 Hz/cm

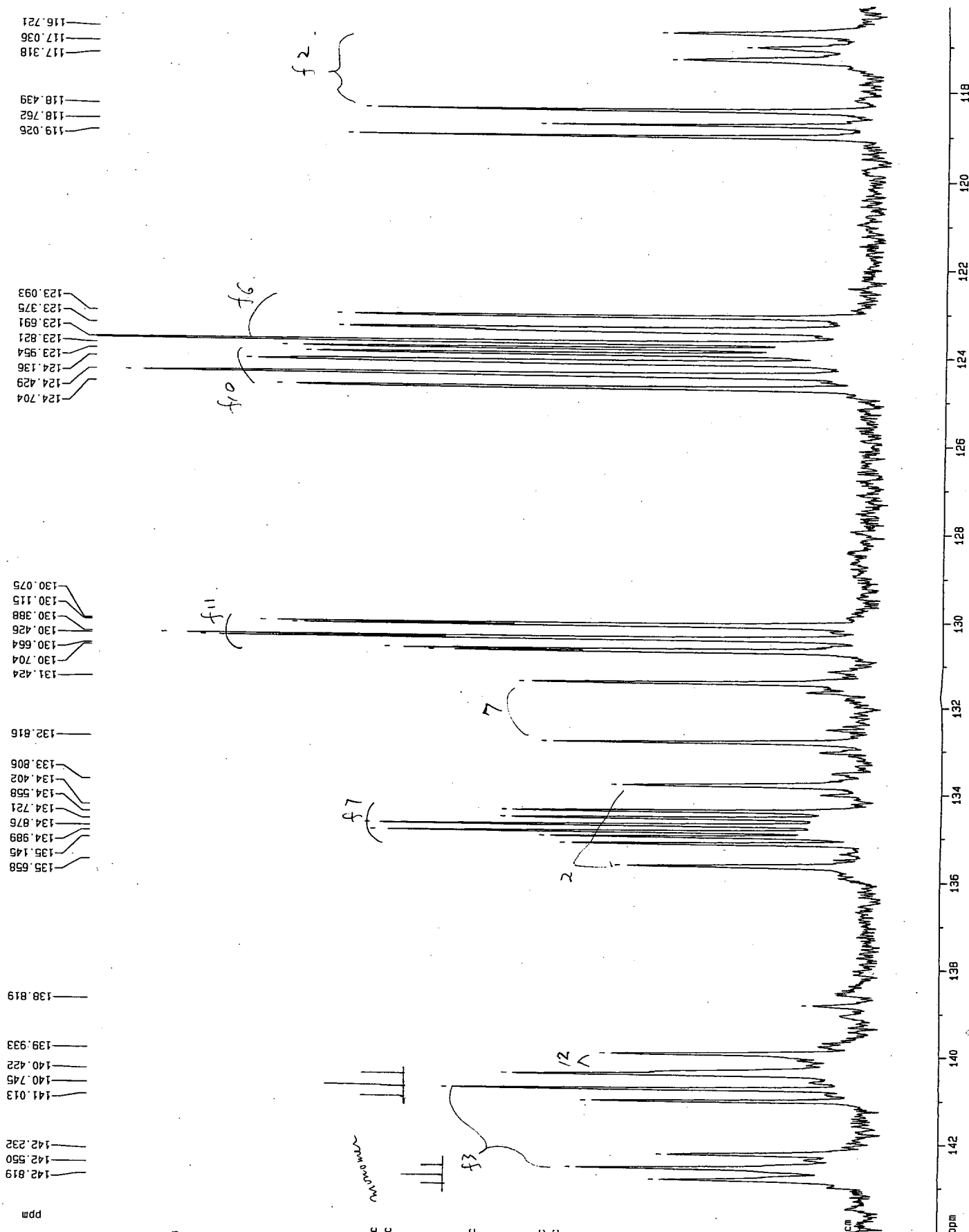
ppm

ppm

CH3-13C00Na enriched BChI c (F1) in CCl4



CH3-13C00Na enriched BChl c (F1) in CCl4



Experiment Data Parameters
 Experiment: nozarrrc
 ID: 14
 PNO: 2

Acquisition Parameters
 980302
 12.33
 RUM: dpx500
 HD: 5 mm Mjltinu
 PPG: zpgl30
 POG: 32768
 EVENT: D20
 11385

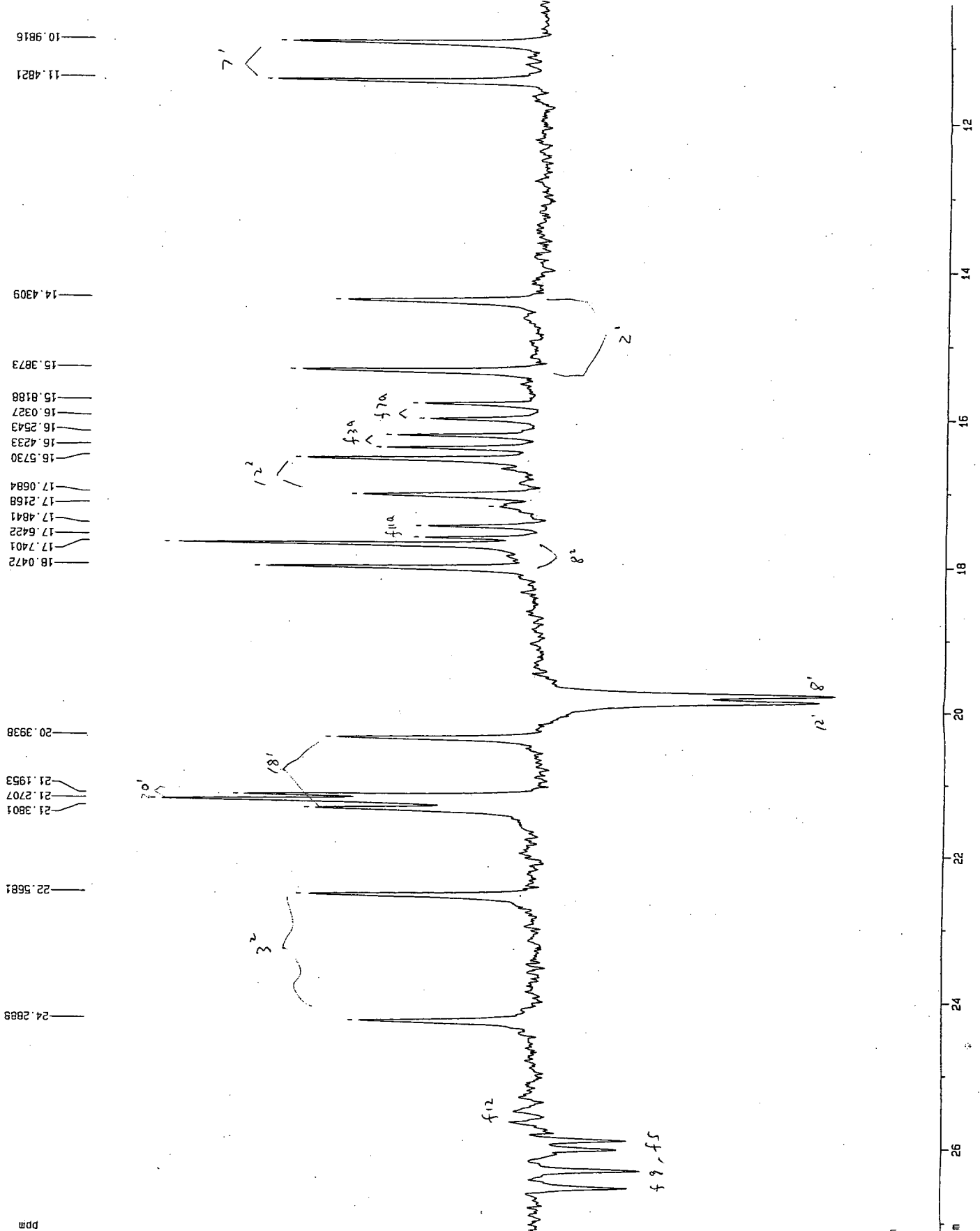
2
 27777.777 Hz
 0.847710 Hz
 0.5898740 sec
 16384
 18.000 usec
 6.00 usec
 300.0 K
 0.00002000 sec
 18.00 dB
 1.50000000 sec
 waitz16
 100.00 usec
 500.1325006 MHz

1H
 -6.00 dB
 18.00 dB
 7.20 usec
 6.00 usec
 125.7703148 MHz
 13C
 0.00 dB
 0.03000000 sec

Processing parameters
 32768
 125.7578226 MHz
 EM
 0
 2.00 Hz
 0
 1.00

R plot parameters
 33.00 cm
 144.004 ppm
 18109.87 Hz
 116.105 ppm
 14601.09 Hz
 0.84544 ppm/cm
 106.32063 Hz/cm

CH3-13COONa enriched BChl c (F1) in CCl4



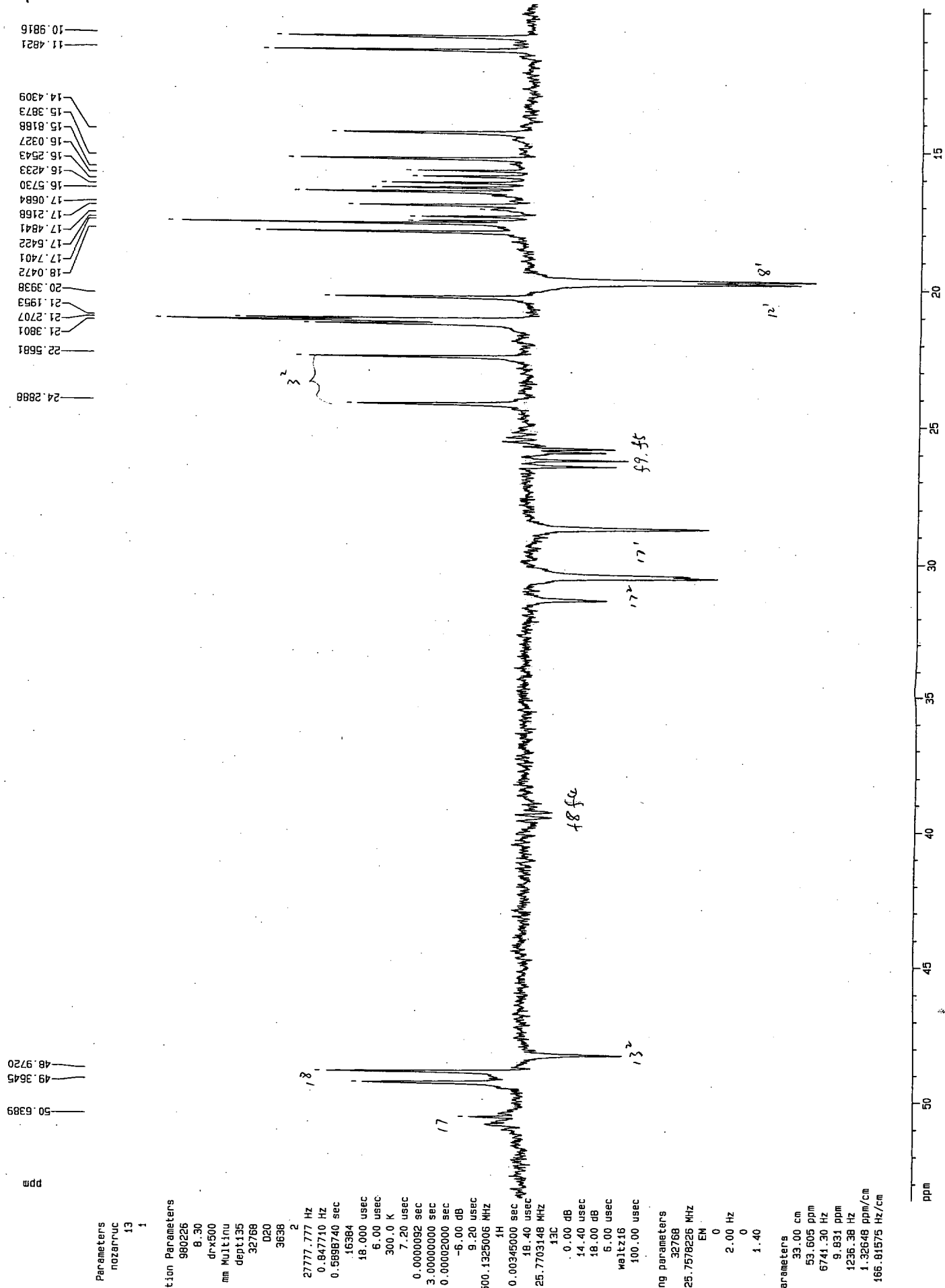
Current Data Parameters
 NAME nozerruc
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980226
 Time 8.30
 INSTRUM drx500
 PROBHD 5 mm Multinu
 PULPROG dept135
 TD 32768
 SOLVENT D2O
 NS 3638
 DS 2
 SMH 27777.777 Hz
 FIDRES 0.847710 Hz
 AQ 0.5898740 sec
 RG 16384
 DM 18.000 usec
 DE 6.00 usec
 TE 300.0 K
 P1 7.20 usec
 DELTA 0.0000092 sec
 D1 3.0000000 sec
 D12 0.0000200 sec
 PL2 -6.00 dB
 P3 9.20 usec
 SF02 500.1325006 MHz
 NU2 1H
 O2 0.00345000 sec
 F4 18.40 usec
 SF04 125.7703148 MHz
 NUC1 13C
 PL1 0.00 dB
 P2 14.40 usec
 PL12 18.00 dB
 DE 6.00 usec
 PPRG02 waltz16
 PCPD2 100.00 usec

F2 - Processing parameters
 SI 32768
 SF 125.7578225 MHz
 EM
 SSB 0
 LB 2.00 Hz
 GB 0
 GC 1.40

1D NMR plot parameters
 CX 33.00 cm
 F1P 27.261 ppm
 F1 3428.31 Hz
 F2P 10.420 ppm
 F2 1310.43 Hz
 PPMCM 0.51033 ppm/cm
 RZCM 64.17799 Hz/cm

CH3-13C00Na enriched BChl c (F1) in CCl4



Current Data Parameters
 NAME nozarrruc
 EXPNO 13
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 980226
 Time 8.30
 INSTRUM drx500
 PROBHD 5 mm Multinu
 PULPROG dept135
 TD 32768
 SOLVENT D2O
 NS 3638

DS 2
 FIDRES 27777.777 Hz
 AQ 0.847710 Hz
 RG 0.5898740 sec
 DE 16384
 DM 18.000 usec
 JE 6.00 usec
 TE 300.0 K
 DELTA 7.20 usec

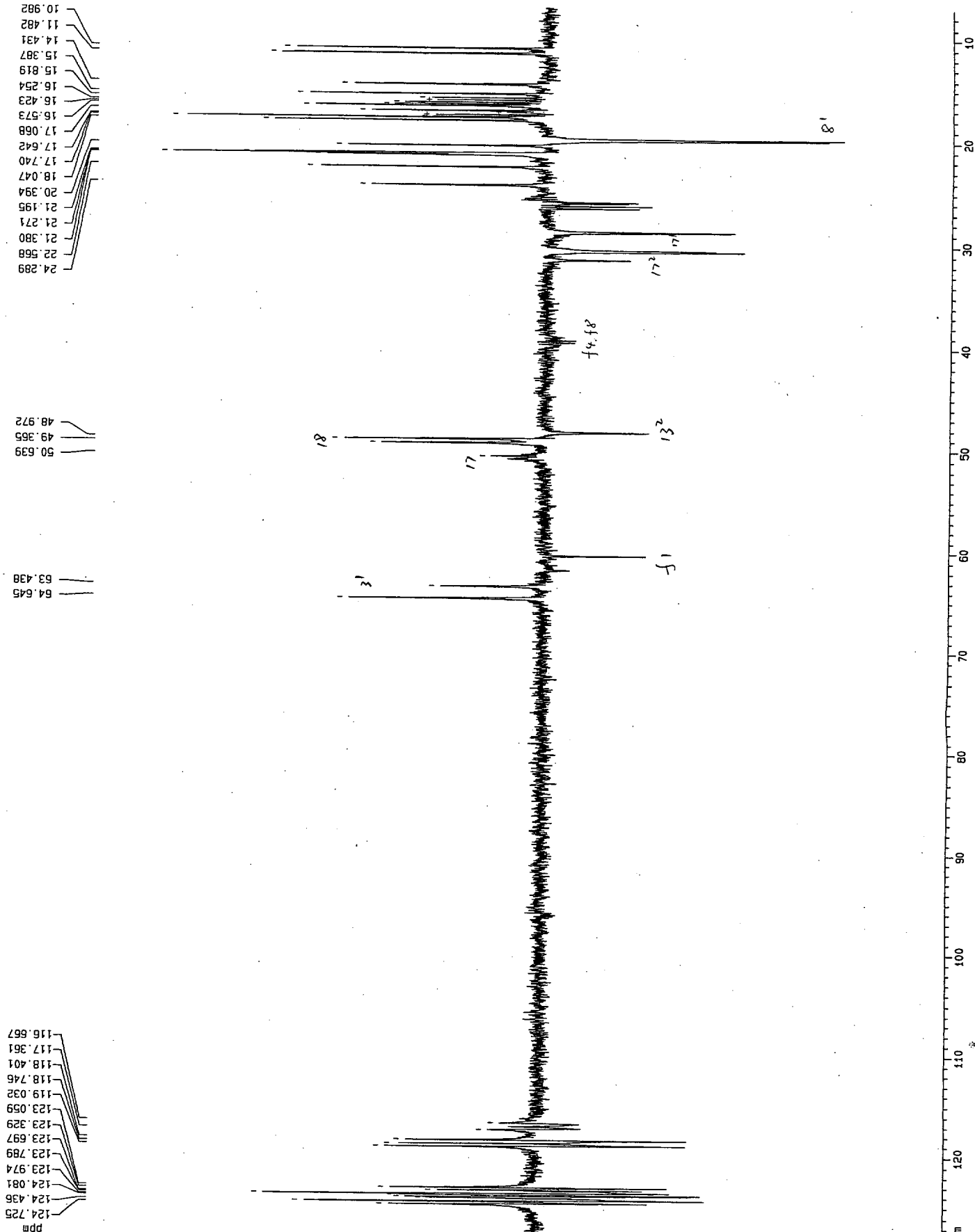
SI 0.000092 sec
 DI 3.0000000 sec
 PL2 0.00002000 sec
 PL1 -6.00 dB
 PL2 9.20 usec
 SF02 500.1325005 MHz
 NU2 1H
 J2 0.00345000 sec
 J1 18.40 usec
 FREQ 125.7703148 MHz

13C
 13C
 0.00 dB
 14.40 usec
 18.00 dB
 6.00 usec
 waltz16
 100.00 usec

2 - Processing parameters
 I 1
 F 32768
 125.7576225 MHz
 EN 0
 SB 0
 B 2.00 Hz
 B 0
 C 1.40

D NMR plot parameters
 X 33.00 cm
 1P 53.605 ppm
 1 6741.30 Hz
 2P 9.831 ppm
 2 1236.38 Hz
 PPMCM 1.32648 ppm/cm
 ZCM 166.81575 Hz/cm

CH3-13C00Na enriched Bchl c (F1) in CCl4



124.725
124.436
124.081
123.974
123.789
123.697
123.329
123.059
119.032
118.746
118.401
117.361
116.657

64.645
63.438
50.639
49.365
48.972

24.289
22.568
21.380
21.271
21.195
20.394
18.047
17.740
17.642
17.068
16.579
16.423
16.254
15.819
15.387
14.431
11.482
10.982

Current Data Parameters
NAME nozarruc
EXPNO 13
PROCNO 1

F2 - Acquisition Parameters

Date_ 960226
Time 8.30
INSTRUM drx500
PROBHD 5 mm Multinu
PULPROG dept135
TD 32768
SOLVENT D2O
NS 3638
DS 2
US 27777.777 Hz
SMH 0.847710 Hz
FIDRES 0.5898740 sec
AQ 16384
RG 18.000 usec
DM 6.00 usec
DE 300.0 K
TE 7.20 usec
P1 0.0000092 sec
DELTA 3.0000000 sec
D1 0.0000200 sec
PL2 -6.00 dB
P3 9.20 usec
SFO2 500.1325005 MHz
NUC2 1H
SFO1 0.00345000 sec
Z2 18.40 usec
SFO1 125.7703148 MHz
NUC1 13C
PCPD2 100.00 usec
PCPD1 0.00 dB
PL1 14.40 usec
PL2 16.00 dB
DE 6.00 usec
WALTZ16
PCPD2 100.00 usec

F2 - Processing parameters

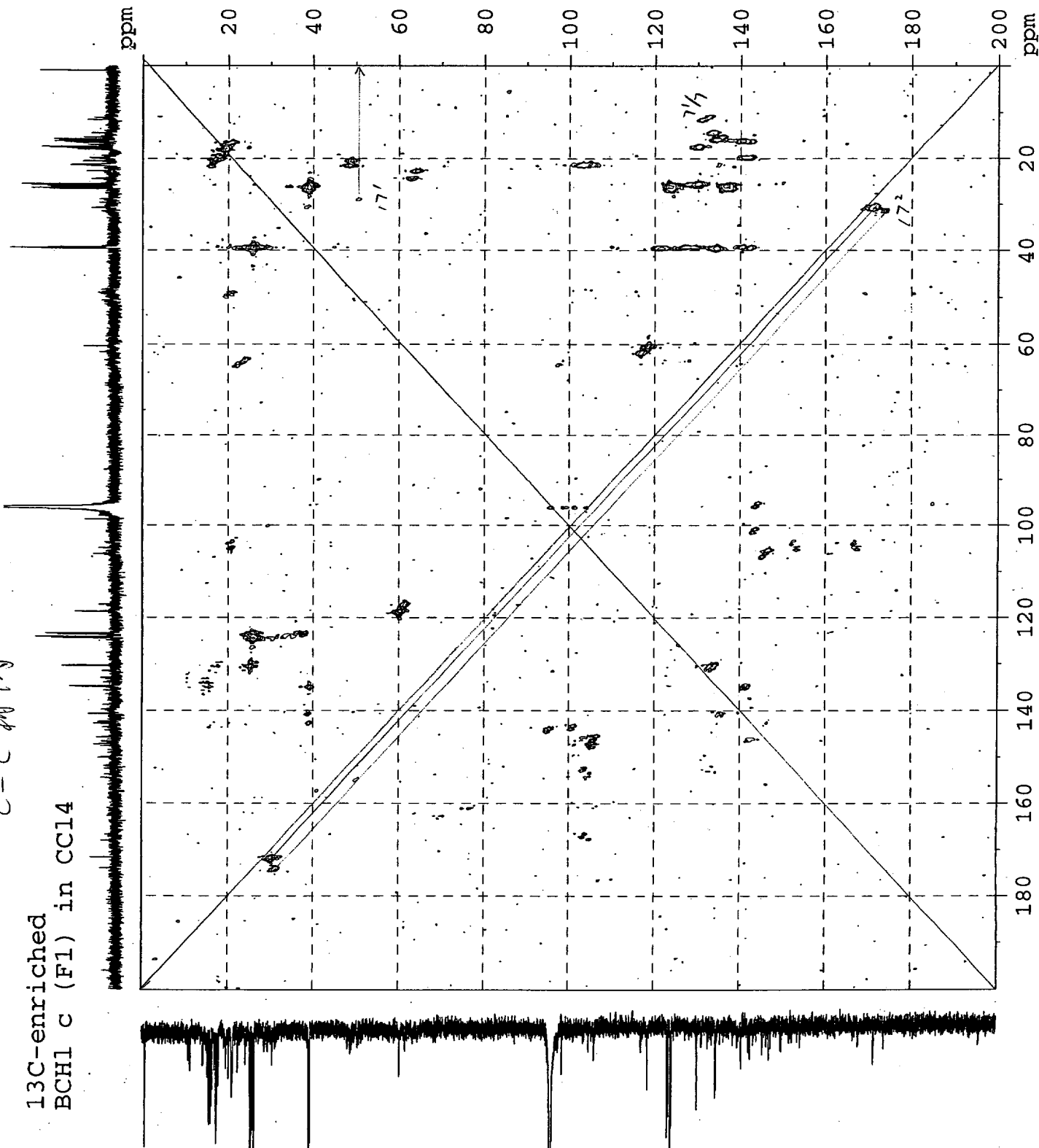
SI 32768
SF 125.7576226 MHz
EN 0
WDW 2.00 Hz
SSB 0
AB 0
C 1.40

1D NMR plot parameters

SI 33.00 cm
X 128.424 ppm
F1 16150.30 Hz
F2 7.104 ppm
F3 893.34 Hz
PCMC 3.67637 ppm/cm
ZCM 462.33203 Hz/cm

13C-enriched
BCH1 c (F1) in CCl4

C - c 7A 7B



Current Data Parameters	
NAME	BCh1c
EXNO	60
PROCNO	1
F2 - Acquisition Parameters	
Date_	980827
Time	14.12
INSTRUM	drx400
PROBHD	5 mm Multinu
PULPROG	inadsy
TD	2048
SOLVENT	D2O
NS	256
DS	16
SWH	2222.223 Hz
FIDRES	10.850695 Hz
AQ	0.0461300 sec
RG	16384
DW	22.500 usec
DE	7.14 usec
TE	300.0 K
P1	6.50 usec
P2	13.0 usec
G0	0.0000030 sec
CNST3	45.0000000
GA	0.0055556 sec
GI1	0.0300000 sec
PL12	19.00
CPDPRG2	waltz16
PCPD2	100.00 usec
SFO2	400.1319227 MHz
NUC2	1H
PL2	-3.00 dB
D1	5.0000000 sec
DE	7.14 usec
SFO1	100.6227290 MHz
NUC1	13C
PL1	-3.00 dB
INO	0.00004500 sec
F1 - Acquisition parameters	
ND0	1
TD	512
SFO1	100.6227 MHz
FIDRES	43.402779 Hz
SW	220.847 ppm
F2 - Processing parameters	
SI	2048
SF	100.6127983 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
F1 - Processing parameters	
SI	512
MC2	QF
SF	100.6127983 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

Current Data Parameters
 NAME BChIC
 EXPNO 60
 PROCNO 1

F2 - Acquisition Parameters

Date_ 980827
 Time 14.12
 INSTRUM drx400
 PROBHD 5 mm Multinu
 PULPROG inady
 TD 2048

SOLVENT D2O
 NS 256
 DS 16

SWH 2222.223 Hz
 FIDRES 10.850695 Hz
 AQ 0.0461300 sec

RG 16384
 DW 22.500 usec
 DE 7.14 usec
 TE 300.0 K

P1 6.50 usec
 P2 13.0 usec
 d0 0.000030 sec

CNST3 45.000000
 d4 0.0055556 sec
 d11 0.0300000 sec

PL12 19.00 dB
 CPDPRG2 waltz16
 PCPD2 100.00 usec

SFO2 400.1319227 MHz
 NUC2 1H
 PL2 -3.00 dB

D1 5.0000000 sec
 DE 7.14 usec
 SFO1 100.6227290 MHz

NUC1 13C
 FL1 -3.00 dB
 INO 0.00004500 sec

F1 - Acquisition parameters

ND0 1
 TD 512
 SFO1 100.6227 MHz

FIDRES 43.402779 Hz
 SW 220.847 ppm

F2 - Processing parameters

SI 2048
 SF 100.6127983 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0
 PC 1.00

F1 - Processing parameters

SI 512
 MC2 QF
 SF 100.6127983 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0

ppm 20 30 40 50 60 70 80 90 100 110 120 130 140 ppm

