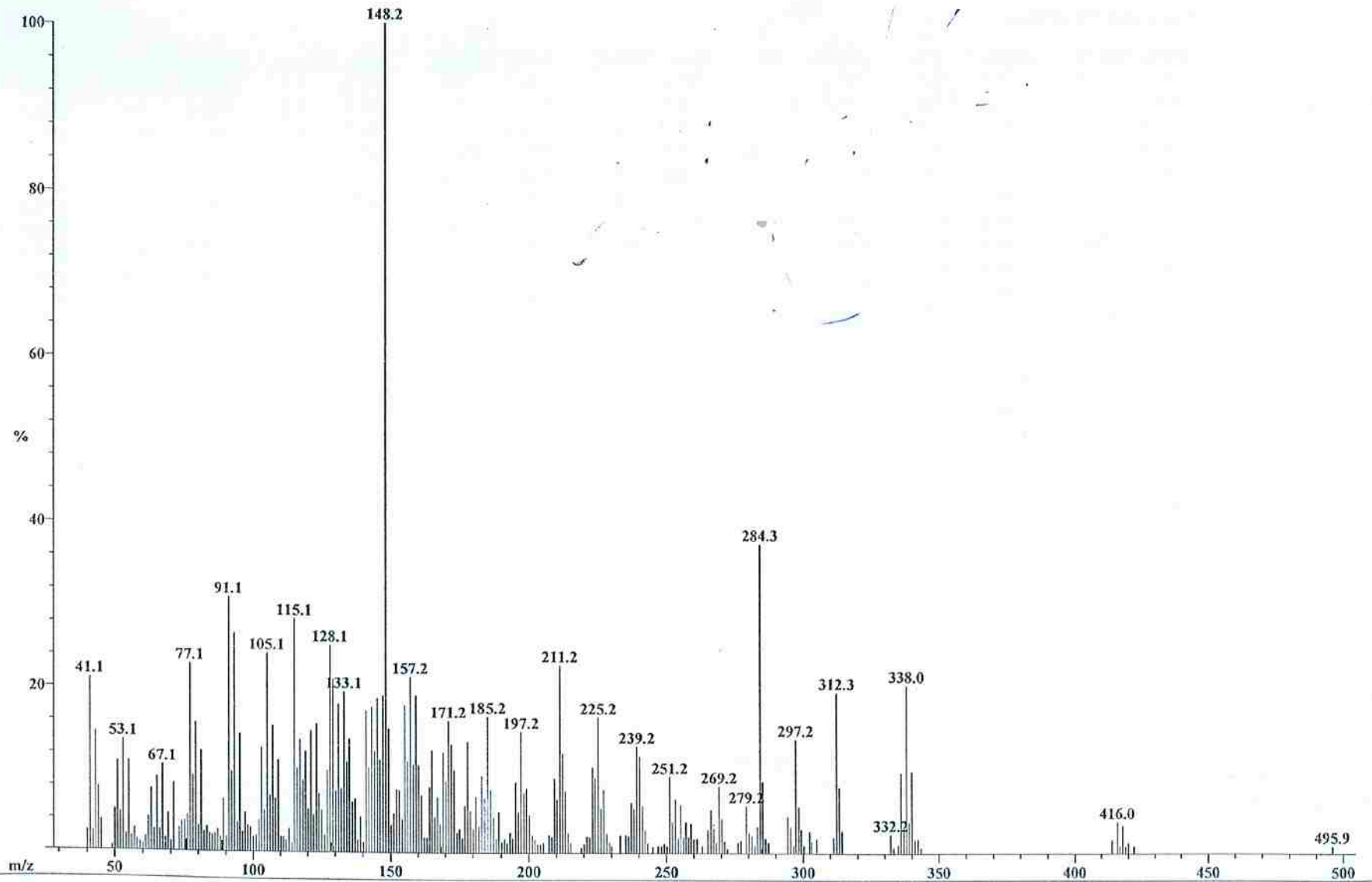


Scan: 12

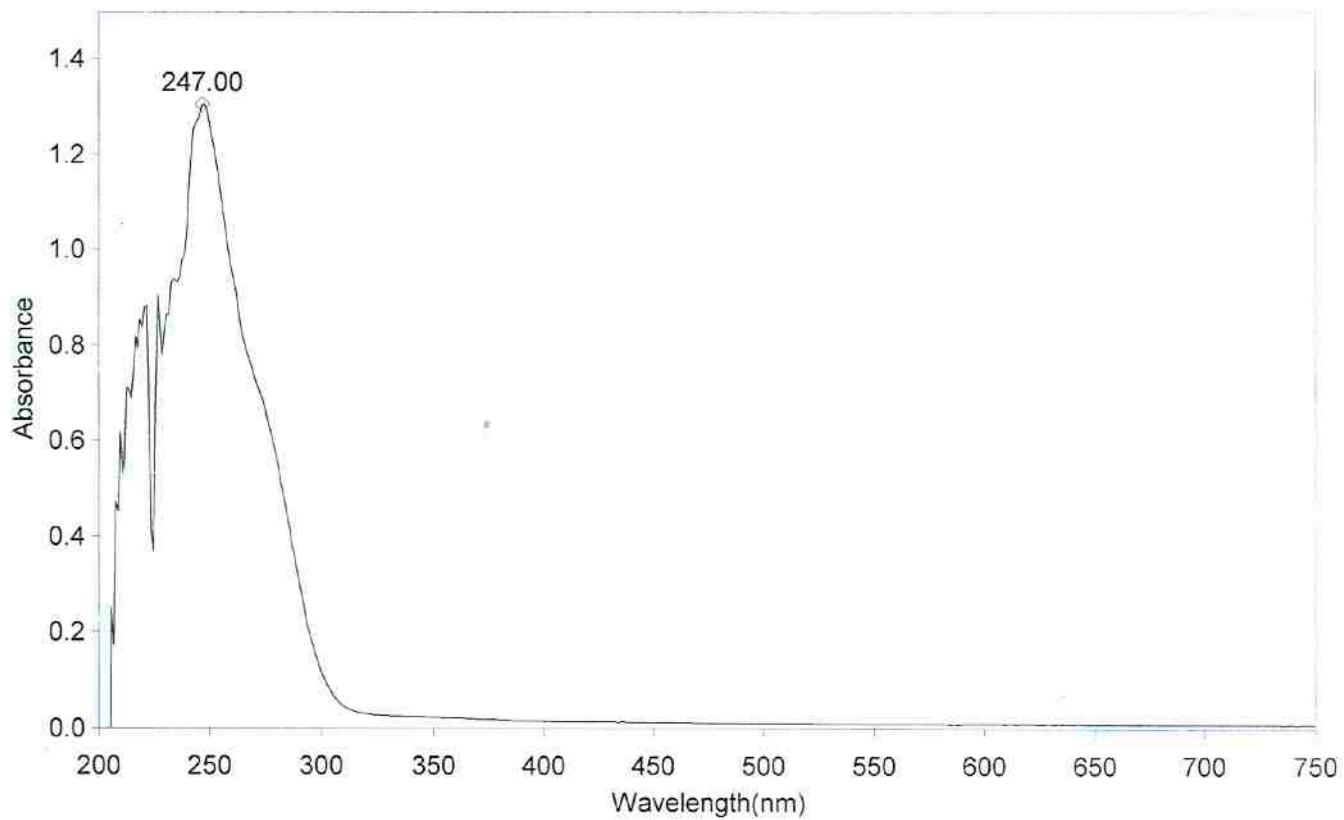
Base: m/z 148; 45.4%FS TIC: 8598120

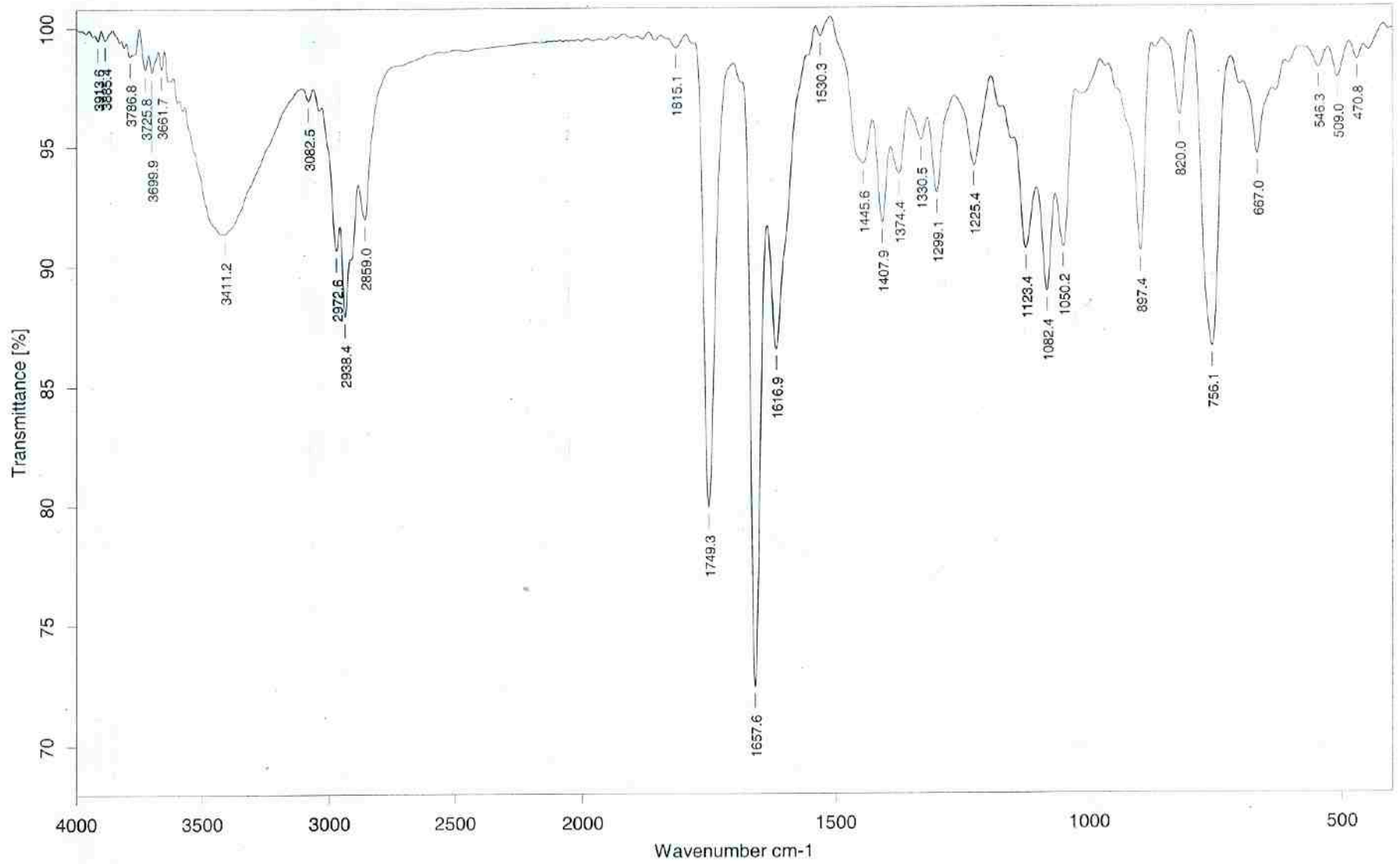
R.T.: .98

#Ions: 268

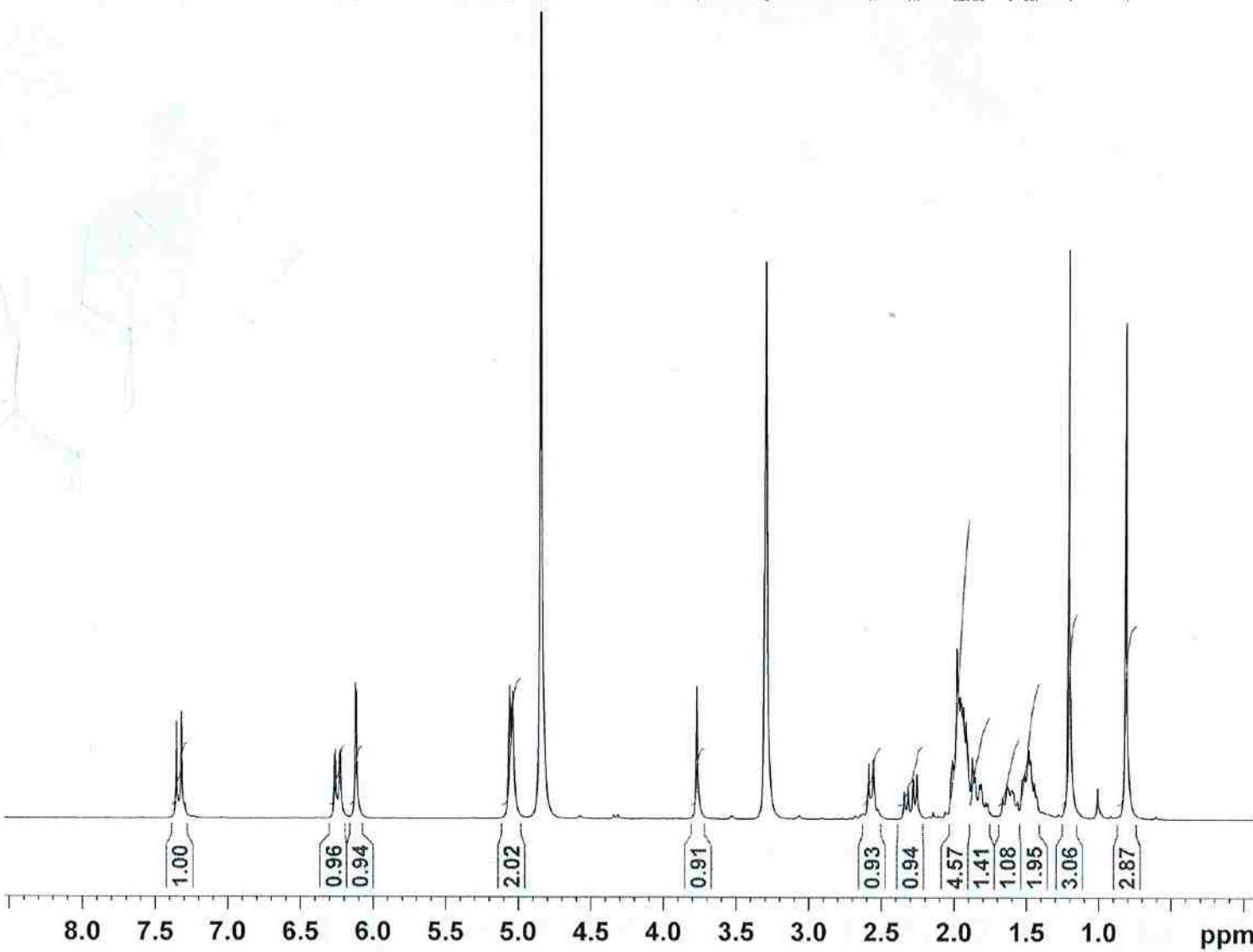


Scan Graph





7.354
7.320
6.268
6.262
6.234
6.228
6.125
6.118
5.061
5.045
5.040
4.849
3.772
3.310
3.305
3.300
3.295
3.289
2.589
2.558
2.319
2.283
2.258
2.012
2.003
1.984
1.969
1.960
1.954
1.939
1.920
1.876
1.857
1.828
1.815
1.632
1.625
1.529
1.515
1.488
1.474
1.448
1.212
0.818



NAME may18
EXPNO 2
PROCNO 1
Date_ 20120518
Time_ 11.34
INSTRUM spect
PROBHD 5 mm DUL 13C-1
PULPROG zg30
TD 32768
SOLVENT MeOD
NS 64
DS 0
SWH 6172.839 Hz
FIDRES 0.188380 Hz
AQ 2.6542580 sec
RG 512
DW 81.000 usec
DE 6.50 usec
TE 296.7 K
D1 1.50000000 sec
TDO 1

===== CHANNEL f1 =====
NUC1 1H
P1 12.80 usec
PL1 5.00 dB
SFO1 300.1324010 MHz
SI 32768
SF 300.1300076 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

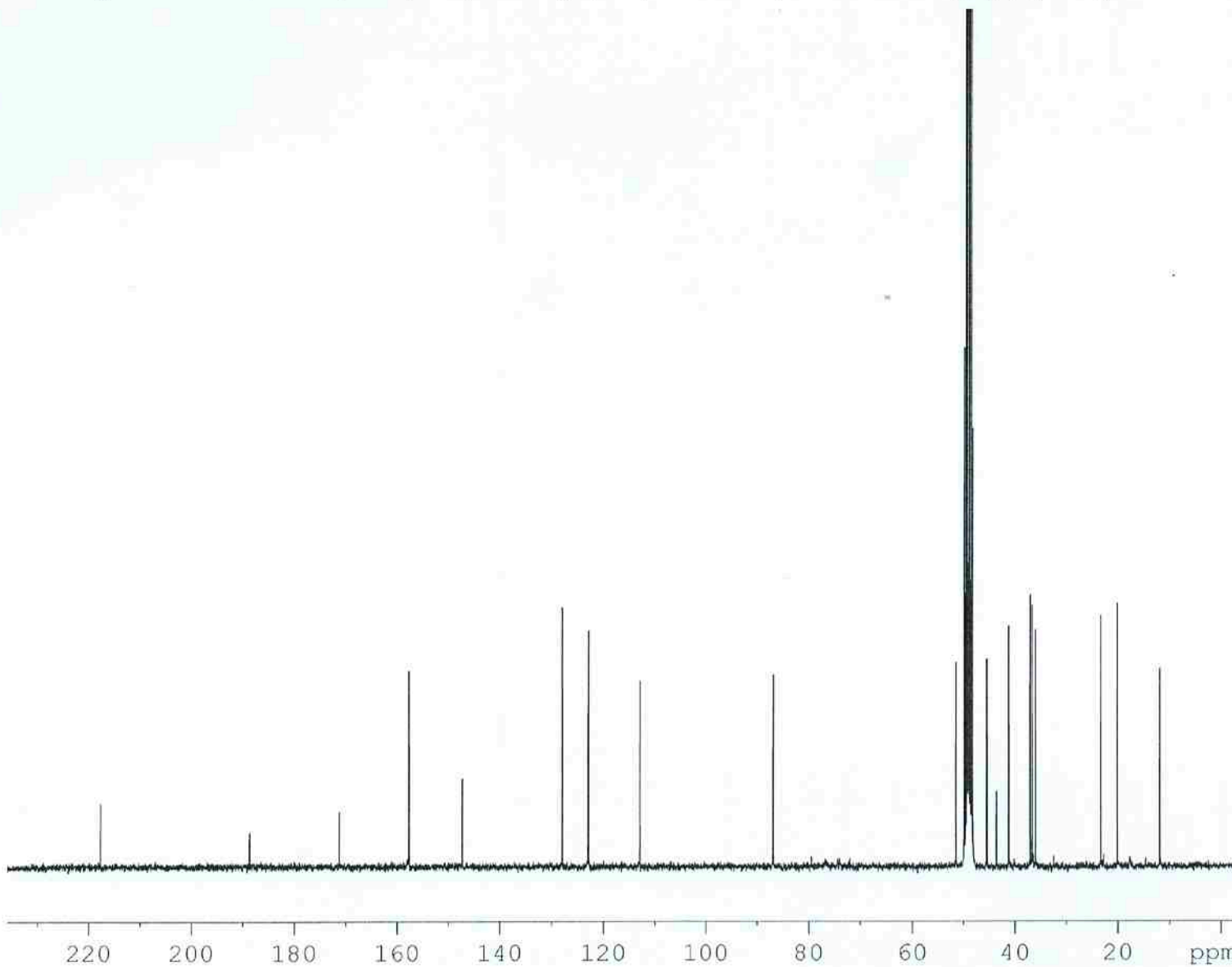
M.Asif / Dr. Iqbal / Arc-1-2-10
BB

LAB NO. 116

—217.70
—188.66
—171.22
—157.68
—147.31

—127.90
—122.87
—112.91

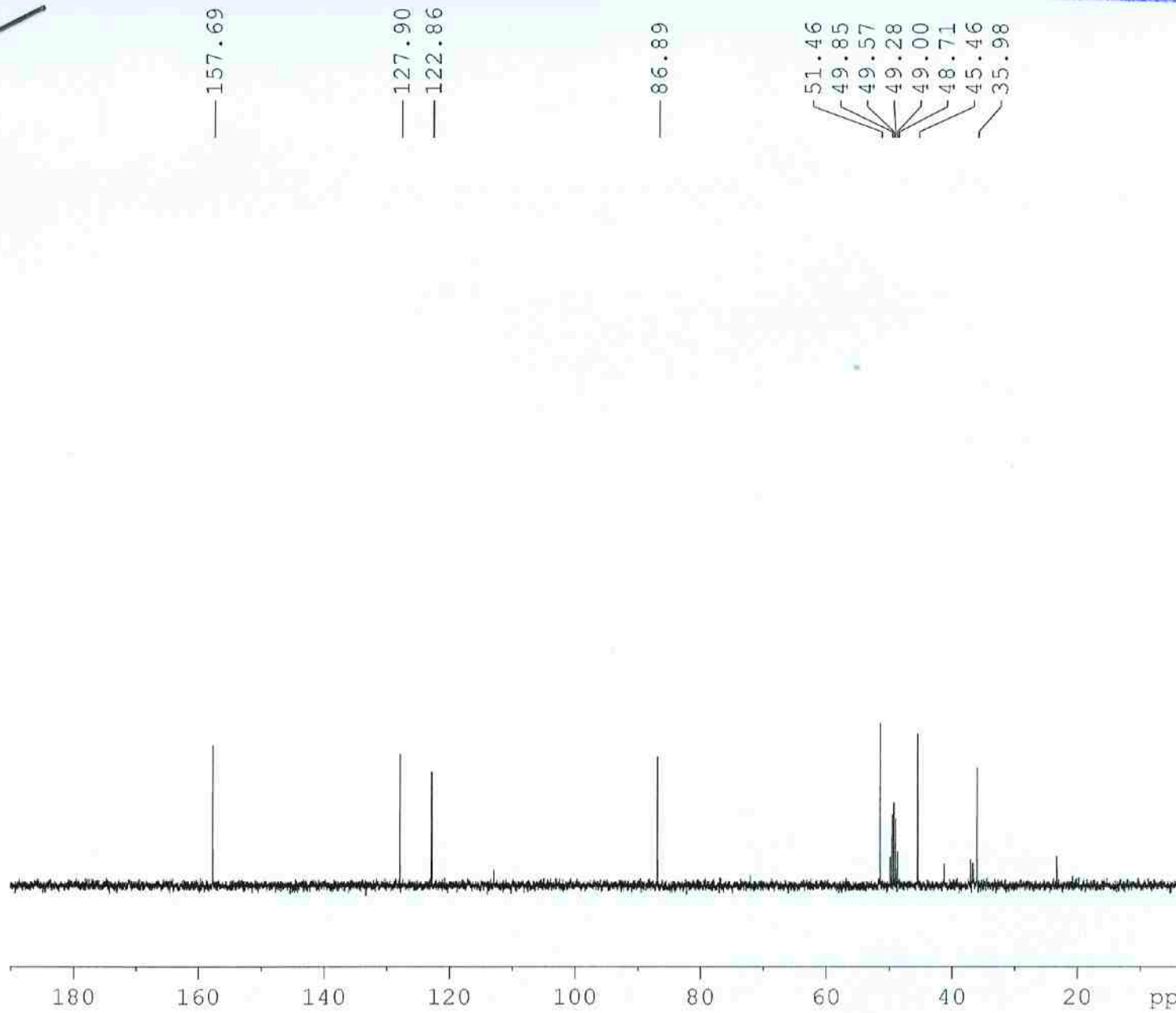
86.89
51.47
49.85
49.57
49.28
49.00
48.71
48.43
48.14
45.51
45.46
43.59
41.21
37.03
36.65
35.98
23.28



NAME jun08
EXPNO 1
PROCNO 1
Date_ 20120608
Time 12.51
INSTRUM Spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg
TD 32768
SOLVENT MeOD
NS 18432
DS 2
SWH 18028.846 Hz
FIDRES 0.550197 Hz
AQ 0.9088159 sec
RG 22.6
DW 27.733 usec
DE 6.50 usec
TE 300.0 K
D1 1.5000000 sec
D11 0.03000000 sec
TDO 18

==== CHANNEL f1 =====
NUC1 13C
P1 11.00 usec
PL1 0.00 dB
PL1W 28.88669395 W
SFO1 75.4764278 MHz

==== CHANNEL f2 =====
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 120.00 dB
PL12 17.00 dB
PL13 17.00 dB
PL2W 0.00000000 W
PL12W 0.26262212 W
PL13W 0.26262212 W
SFO2 300.1315007 MHz
SI 16384
SF 75.4676422 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40



```

NAME                jun08
EXPNO                3
PROCNO              1
Date_               20120609
Time_               7.41
INSTRUM             Spect
PROBHD              5 mm BBO BB-1H
PULPROG             dept90
TD                  32768
SOLVENT             MeOD
NS                  2528
DS                  2
SWH                 14367.816 Hz
FIDRES              0.438471 Hz
AQ                  1.1403764 sec
RG                  203
DW                  34.800 usec
DE                  6.50 usec
TE                  300.0 K
CNST2               145.0000000
D1                  1.5000000 sec
D2                  0.00344828 sec
D12                 0.00002000 sec
TD0                 4

```

```

===== CHANNEL f1 =====
NUC1                 13C
P1                   11.00 usec
P2                   22.00 usec
PL1                  0.00 dB
PL1W                 28.88669395 W
SFO1                 75.4749184 MHz

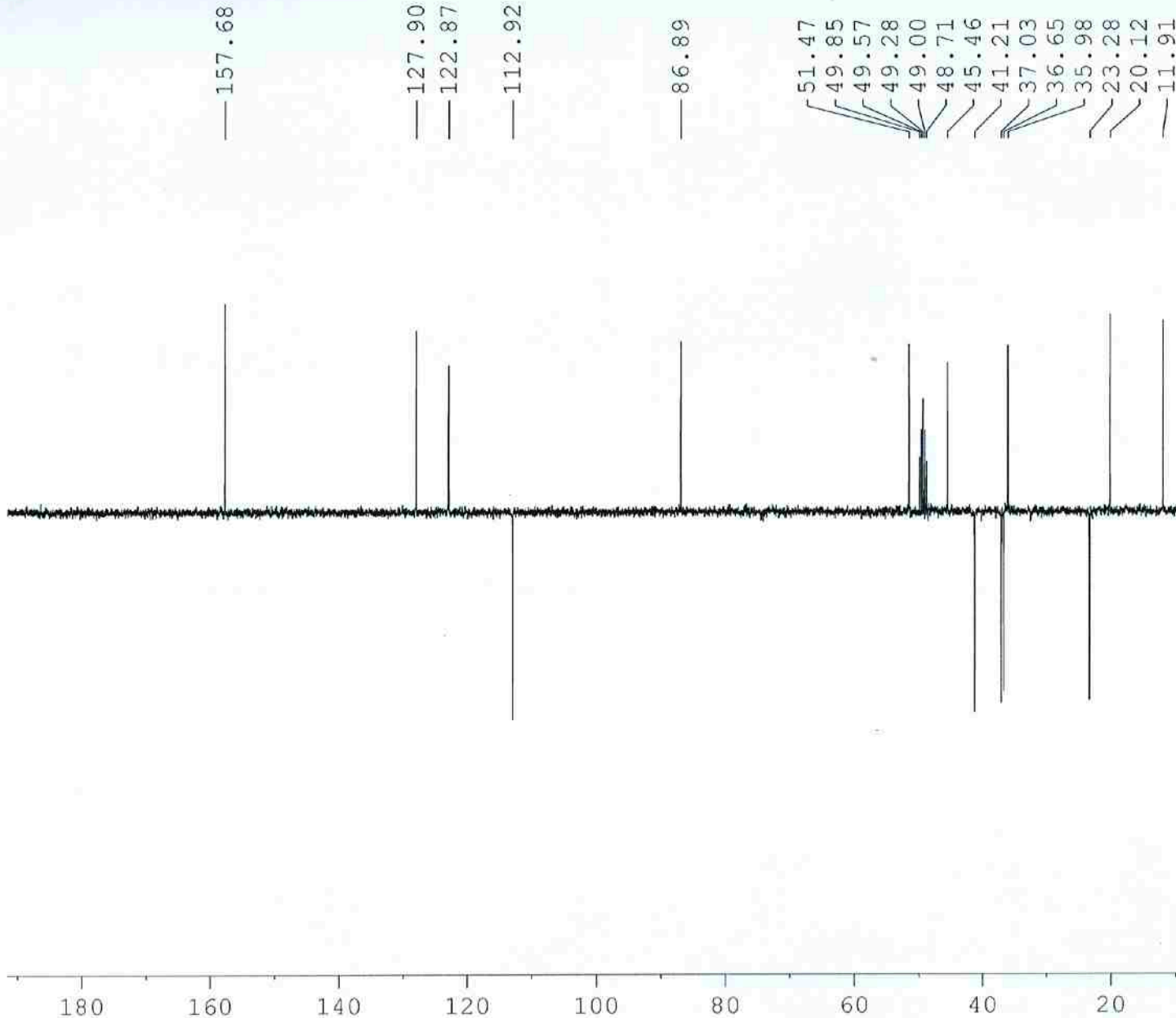
```

```

===== CHANNEL f2 =====
CPDPRG2             waltz16
NUC2                 1H
P3                   12.00 usec
P4                   24.00 usec
PCPD2               80.00 usec
PL2                  0.00 dB
PL12                 17.00 dB
PL2W                 13.16228485 W
PL12W                0.26262212 W
SFO2                 300.1315007 MHz
SI                   16384
SF                   75.4676422 MHz
WDW                  EM
SSB                  0
LB                   1.00 Hz
GB                   0
PC                   1.00

```

180 160 140 120 100 80 60 40 20 ppm



```

NAME                jun08
EXPNO                2
PROCNO              1
Date_               20120609
Time_               1.34
INSTRUM             Spect
PROBHD              5 mm BBO BB-1H
PULPROG             dept135
TD                  32768
SOLVENT             MeOD
NS                  8192
DS                  2
SWH                 14367.816 Hz
FIDRES              0.438471 Hz
AQ                  1.1403764 sec
RG                  203
DW                  34.800 usec
DE                  6.50 usec
TE                  300.0 K
CNST2               145.0000000
D1                  1.50000000 sec
D2                  0.00344828 sec
D12                 0.00002000 sec
TD0                 8

```

```

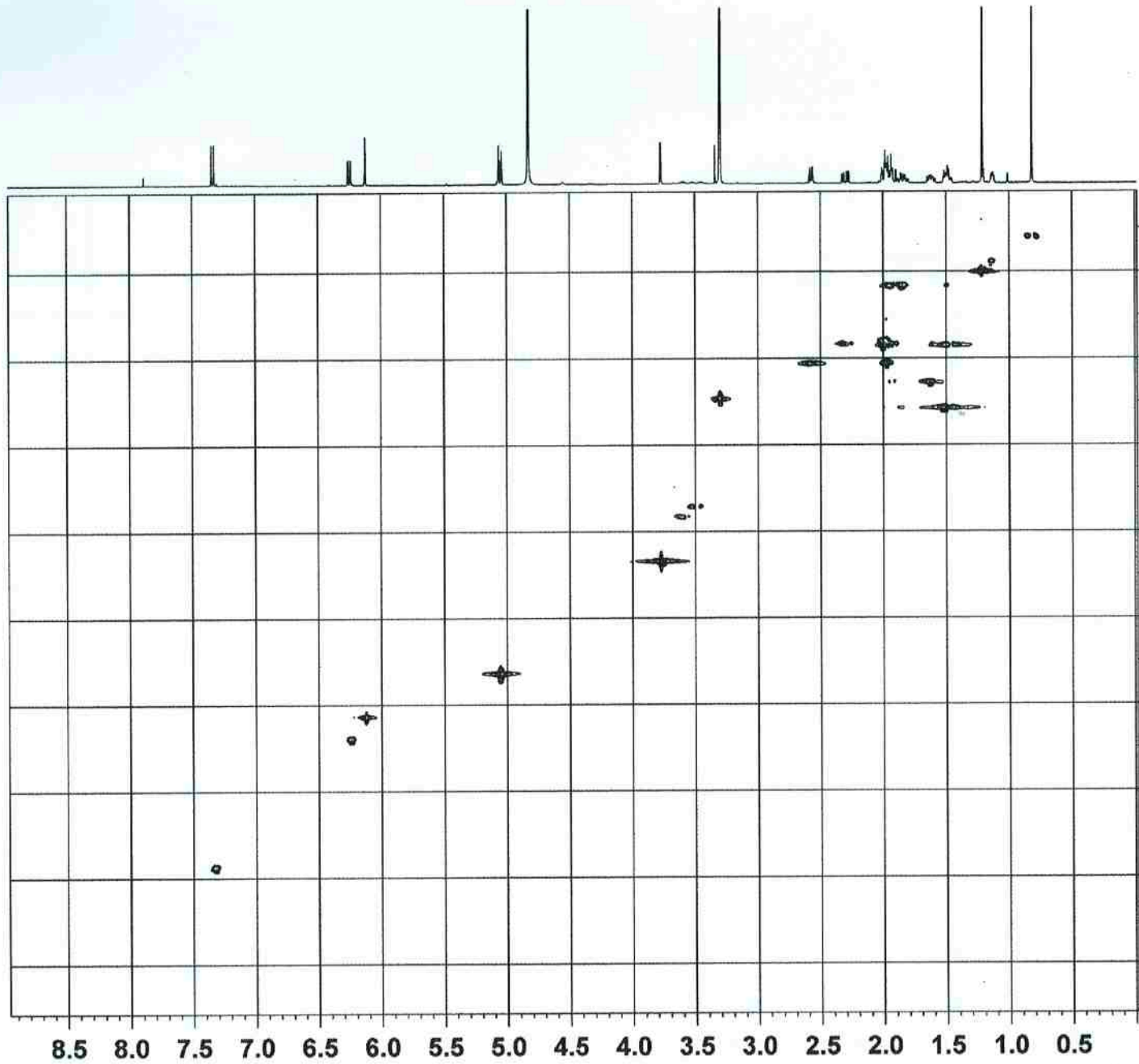
===== CHANNEL f1 =====
NUC1                 13C
P1                   11.00 usec
P2                   22.00 usec
PL1                  0.00 dB
PL1W                 28.88669395 W
SFO1                 75.4749184 MHz

```

```

===== CHANNEL f2 =====
CPDPRG2             waltz16
NUC2                 1H
P3                   12.00 usec
P4                   24.00 usec
PCPD2               80.00 usec
PL2                  0.00 dB
PL12                 17.00 dB
PL2W                 13.16228485 W
PL12W                0.26262212 W
SFO2                 300.1315007 MHz
SI                   16384
SF                   75.4676422 MHz
WDW                  EM
SSB                  0
LB                   1.00 Hz
GB                   0
PC                   1.00

```

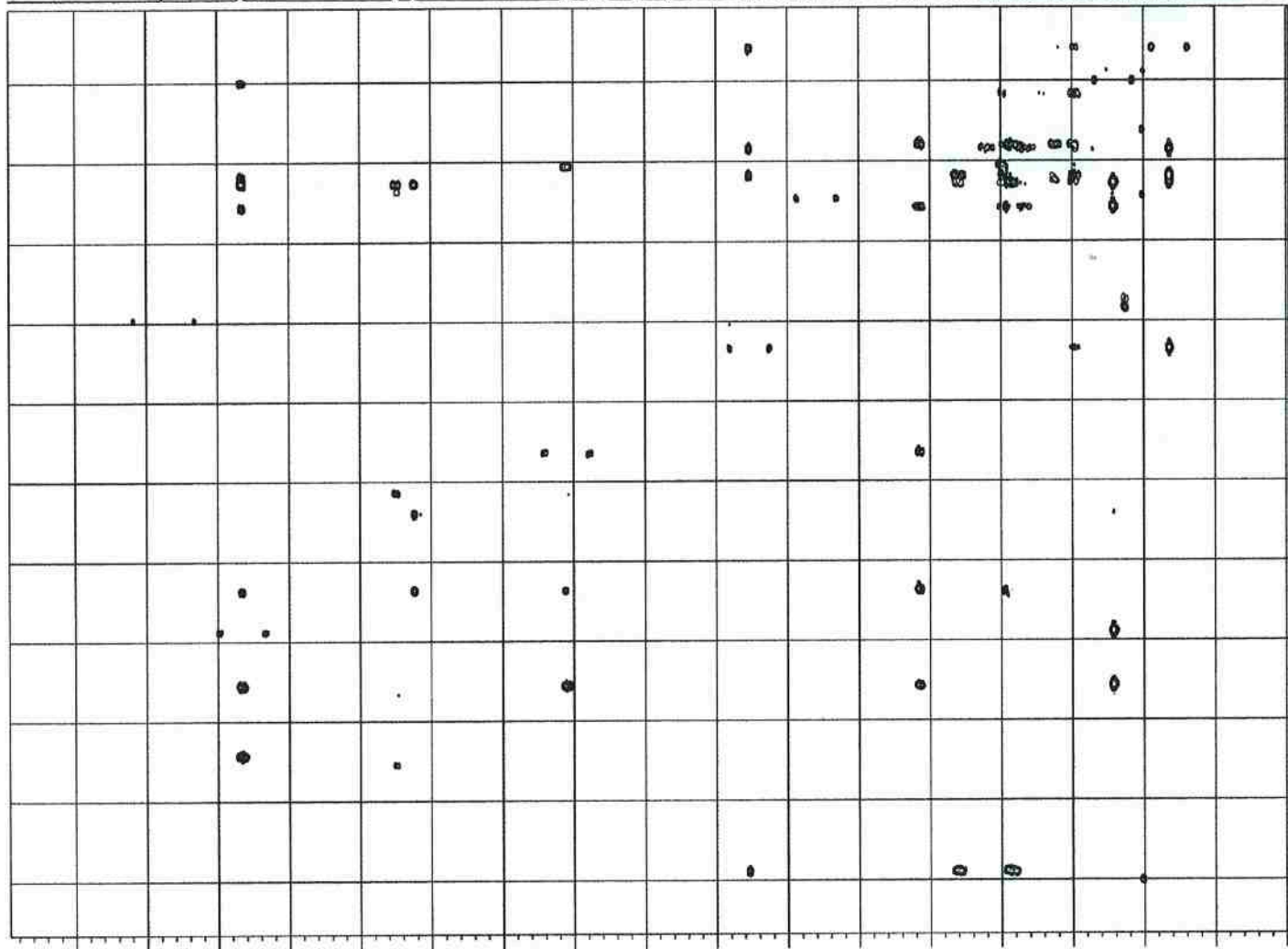
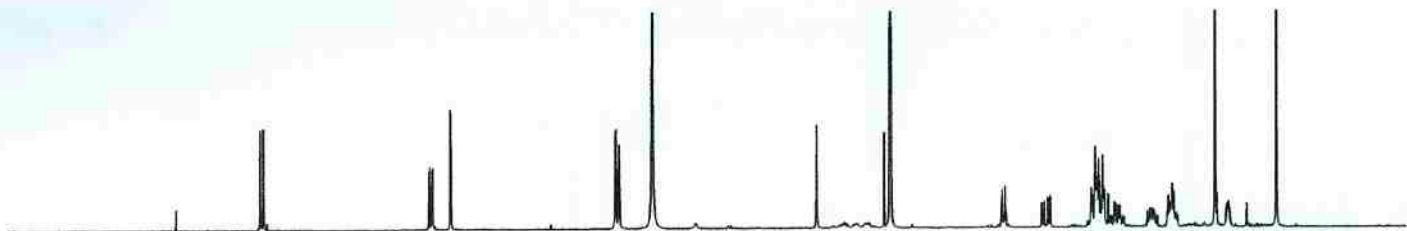
NAME may29-12
 EXPNO 13
 PROCNO 1
 Date_ 20120529
 Time_ 20.50
 INSTRUM spect
 PROBHD 5 mm BBI 1H/D-
 PULPROG hsqcetps1
 TD 1024
 SOLVENT MeOD
 NS 32
 DS 8
 SWH 4496.403 Hz
 FIDRES 4.391018 Hz
 AQ 0.1140300 sec
 RG 23170.5
 DW 111.200 usec
 DE 6.50 usec
 TE 302.4 K
 CNST2 145.0000000
 D0 0.00000300 sec
 D1 1.50000000 sec
 D4 0.00172414 sec
 D11 0.03000000 sec
 D13 0.00000400 sec
 D16 0.00010000 sec
 D24 0.00110000 sec
 IN0 0.00002090 sec
 ZGPTNS

***** CHANNEL f1 *****
 NUC1 1H
 P1 7.60 usec
 P2 15.20 usec
 P28 0.00 usec
 PL1 6.00 dB
 SFO1 500.1322506 MHz

***** CHANNEL f2 *****
 CPDPRG2 garp
 NUC2 13C
 P3 13.25 usec
 P4 26.50 usec
 PCPD2 65.00 usec
 PL2 -2.85 dB
 PL12 9.65 dB
 SFO2 125.7697360 MHz

***** GRADIENT CHANNEL *****
 GPNAM1 SINE.100
 GPNAM2 SINE.100
 GPZ1 80.00 %
 GPZ2 20.10 %
 F16 1000.00 usec
 NDC 2
 TD 256
 SFO1 125.7697 MHz
 FIDRES 93.344727 Hz
 SW 190.000 ppm
 FhMODE Echo-Antiecho
 SI 1024
 SF 500.1300158 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0
 PC 4.00
 SI 1024
 MC2 echo-antiecho
 SF 125.7576112 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0

AVANCE
LAB NO: 109-B



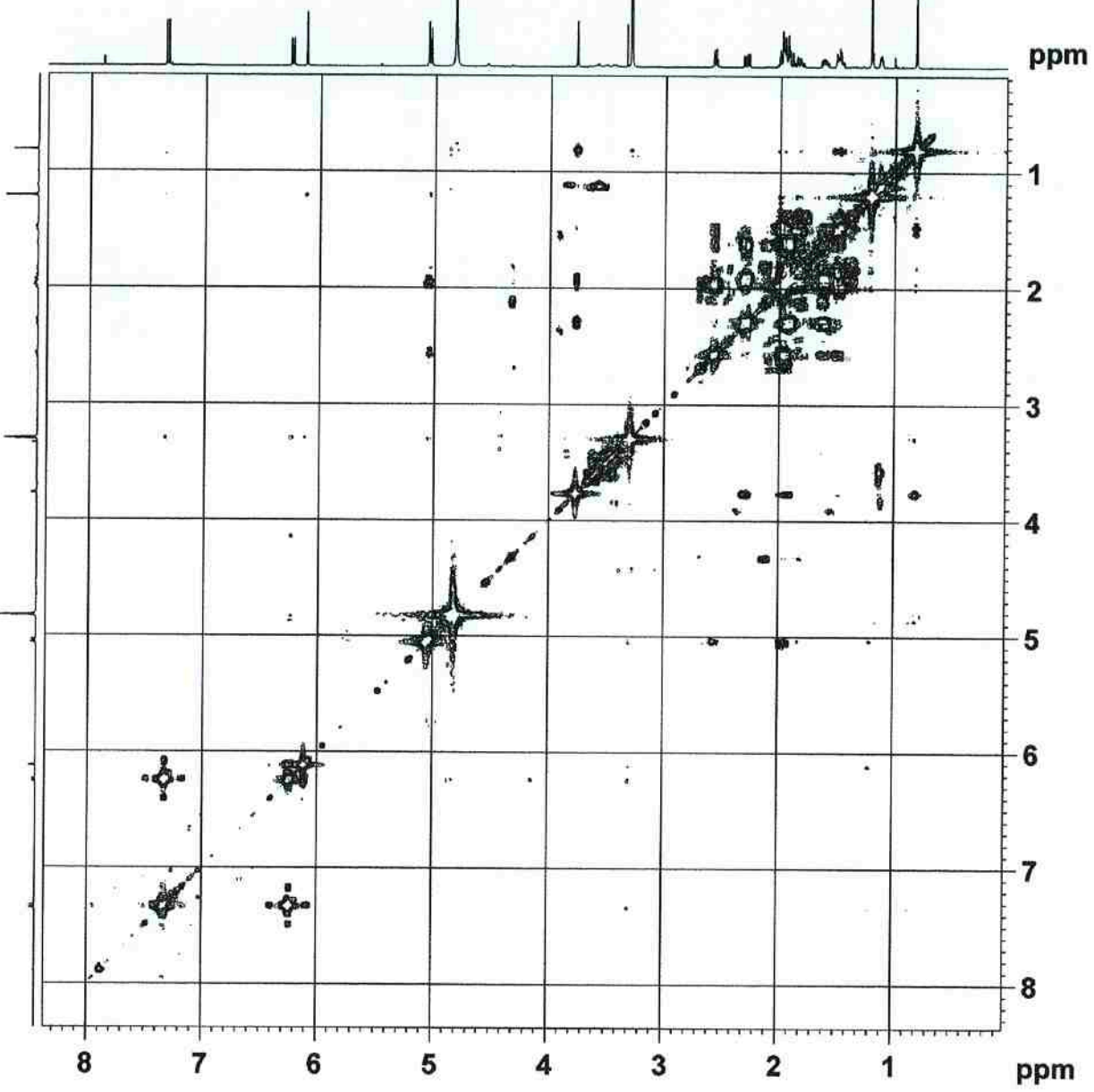
NAME may29-12
 EXPNO 14
 PROCNO 1
 Date 20120530
 Time 0.35
 INSTRUM spect
 PROBHD 5 mm BBI 1H/D-
 PULPROG hmbcgp1pndqf
 TD 4096
 SOLVENT MeOD
 NS 64
 DS 8
 SWH 4496.403 Hz
 FIDRES 1.097755 Hz
 AQ 0.4556364 sec
 RG 23170.5
 DW 111.200 usec
 DE 6.50 usec
 TE 302.9 K
 CNST2 145.0000000
 CNST13 10.0000000
 D0 0.00000300 sec
 D1 2.00000000 sec
 D2 0.00344828 sec
 D6 0.05000000 sec
 D16 0.00010000 sec
 IN0 0.00001715 sec

----- CHANNEL f1 -----
 NUC1 1H
 P1 7.60 usec
 P2 15.20 usec
 PL1 6.00 dB
 SFO1 500.1322506 MHz

----- CHANNEL f2 -----
 NUC2 13C
 P3 13.25 usec
 PL2 -2.85 dB
 SFO2 125.7723769 MHz

----- GRADIENT CHANNEL -----
 GPNAM1 SINE.100
 GPNAM2 SINE.100
 GPNAM3 SINE.100
 GPZ1 50.00 %
 GPZ2 30.00 %
 GPZ3 40.10 %
 P16 1000.00 usec
 NDC 2
 TD 199
 SFO1 125.7724 MHz
 FIDRES 146.629103 Hz
 SW 232.000 ppm
 FMODE QF
 SI 1024
 SF 500.1300198 MHz
 WDW QSINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 4.00
 SI 1024
 MC2 QF
 SF 125.7576112 MHz
 WDW QSINE
 SSB 0
 LB 0.00 Hz
 GB 0

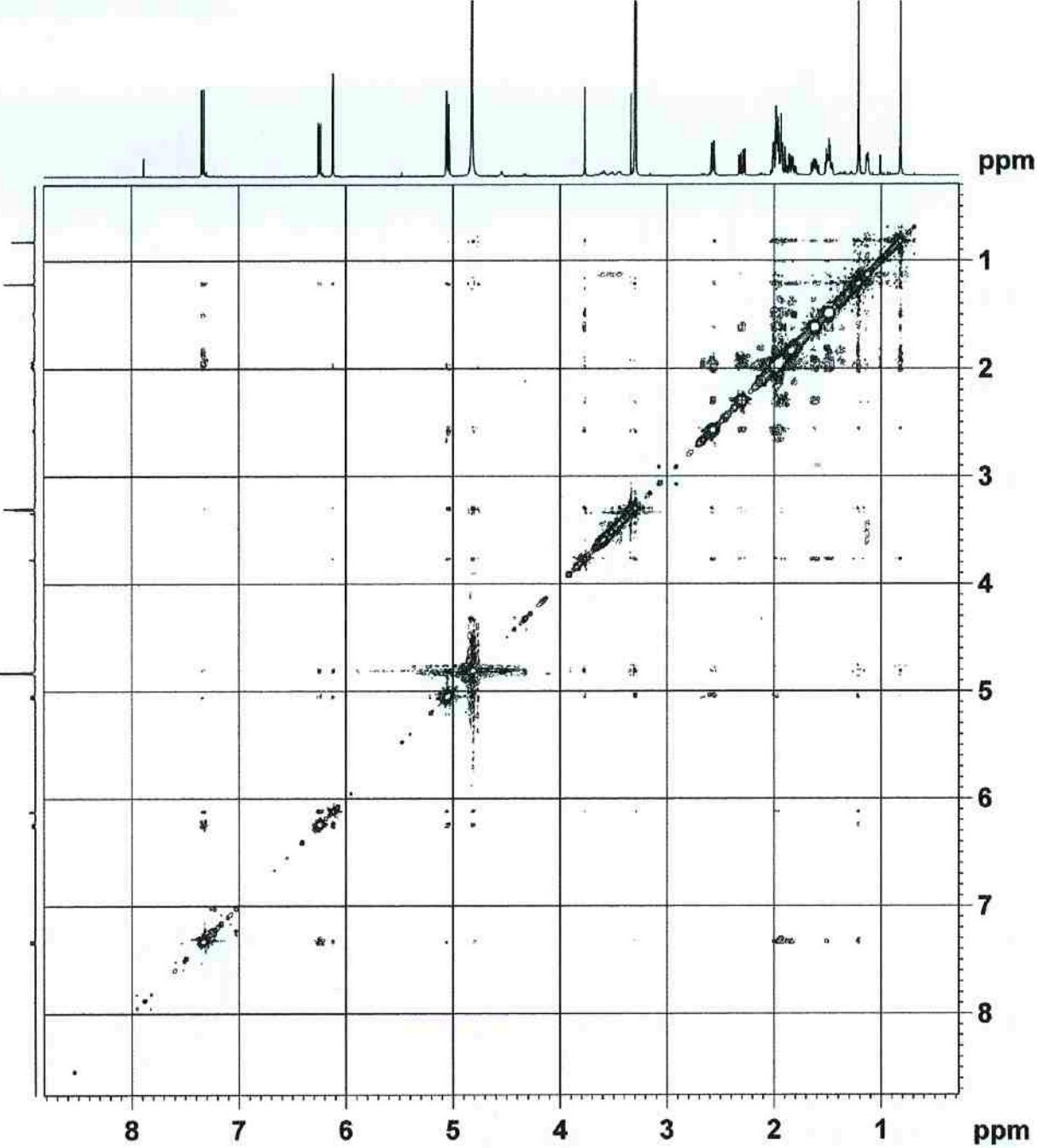
8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm



NAME may29-12
 EXPNO 11
 PROCNO 1
 Date_ 20120529
 Time 16.55
 INSTRUM spect
 PROBHD 5 mm BBI 1H/D-
 PULPROG cosygpgf
 TD 2048
 SOLVENT MeOD
 NS 8
 DS 8
 SWH 4496.403 Hz
 FIDRES 2.195509 Hz
 AQ 0.2278988 sec
 RG 256
 DW 111.200 usec
 DE 6.50 usec
 TE 300.1 K
 D0 0.0000300 sec
 D1 1.5000000 sec
 D13 0.0000400 sec
 D16 0.0001000 sec
 IN0 0.00022240 sec

===== CHANNEL f1 =====
 NUC1 1H
 P0 7.60 usec
 P1 7.60 usec
 PL1 6.00 dB
 SFO1 500.1322506 MHz

===== GRADIENT CHANNEL =====
 GPNAM1 SINE.100
 GPZ1 10.00 %
 P16 1000.00 usec
 NDC 1
 TD 256
 SFO1 500.1323 MHz
 FIDRES 17.564074 Hz
 SW 8.990 ppm
 FnMODE QF
 SI 1024
 SF 500.1300158 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0
 PC 4.00
 SI 1024
 MC2 QF
 SF 500.1300158 MHz
 WDW SINE
 SSB 0
 LB 0.00 Hz
 GB 0



NAME may29-12
 EXPNO 12
 PROCNO 1
 Date_ 20120529
 Time 17.55
 INSTRUM spect
 PROBHD 5 mm BBI 1H/D-
 PULPROG noesygpph
 TD 2048
 SOLVENT MeOD
 NS 16
 DS 2
 SWH 4496.403 Hz
 FIDRES 2.195509 Hz
 AQ 0.2278988 sec
 RG 362
 DW 111.200 usec
 DE 6.50 usec
 TE 301.4 K
 D0 0.00010152 sec
 D1 1.50000000 sec
 D8 0.80000001 sec
 D16 0.00010000 sec
 IN0 0.00022240 sec

===== CHANNEL f1 =====
 NUC1 1H
 P1 7.60 usec
 P2 15.20 usec
 PL1 6.00 dB
 SFO1 500.1322506 MHz

===== GRADIENT CHANNEL =====
 GPNAM1 SINE.100
 GP21 40.00 %
 P16 1000.00 usec
 ND0 1
 TD 256
 SFO1 500.1323 MHz
 FIDRES 17.564074 Hz
 SW 8.990 ppm
 FnmODE States-TPPI
 SI 1024
 SF 500.1300158 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0
 PC 4.00
 SI 1024
 MC2 States-TPPI
 SF 500.1300158 MHz
 WDW QSINE
 SSB 2
 LB 0.00 Hz
 GB 0