

Pulse Sequence: zgpg30

Solvent: CDCl3

Acquisition temperature

File: 1j00657.klms.cry2

INSTR-500 "gndel"

Pulse 45.0 degrees

Acq. time 4.65 sec

Width 7024.9 Hz

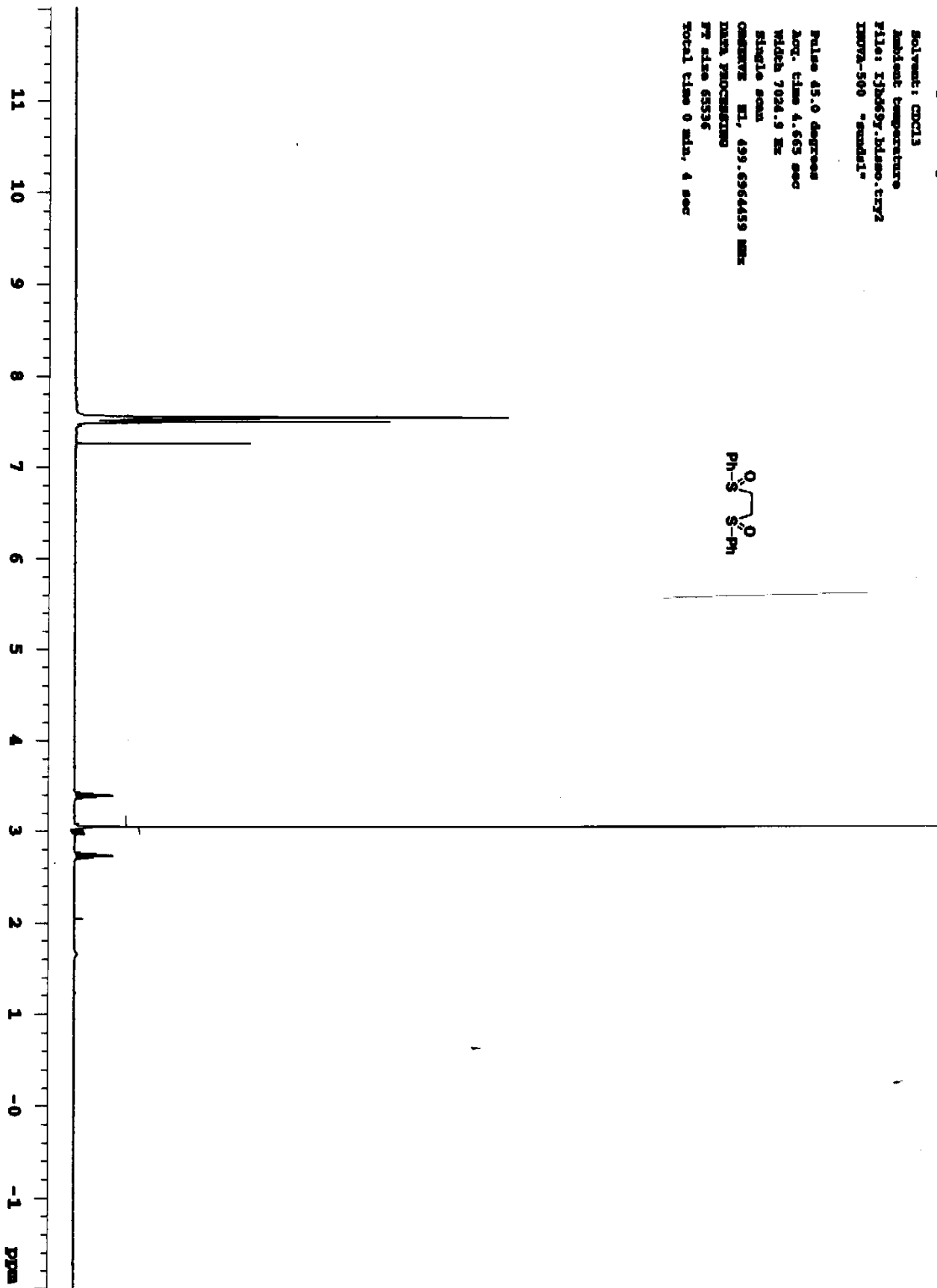
Single scan

Observer: EL, 409.6964459 MHz

DATA PROCESSING

FT size 65536

Total time 0 min, 4 sec



Pulse Sequence: szpul

Solvent: CDCl₃

Ambient temperature

UNIT-400 "u400"

Relax. delay 3.000 sec

Pulse 45.0 degrees

Acq. time 1.311 sec

Width 25000.0 Hz

64 repetitions

OBSERVE C13, 100.5671568 MHz

DECOUPLE H1, 399.9500118 MHz

Power 48 dB

continuously on

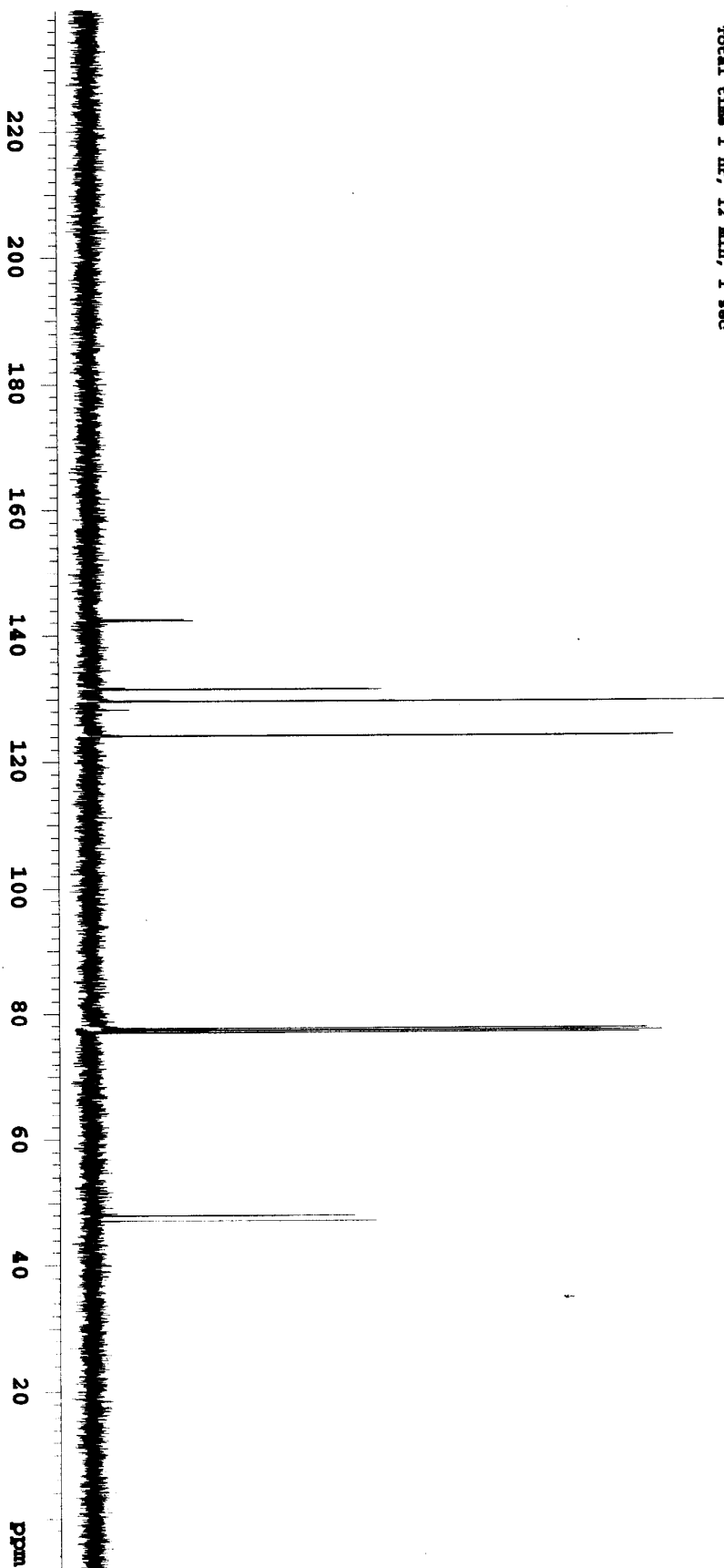
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

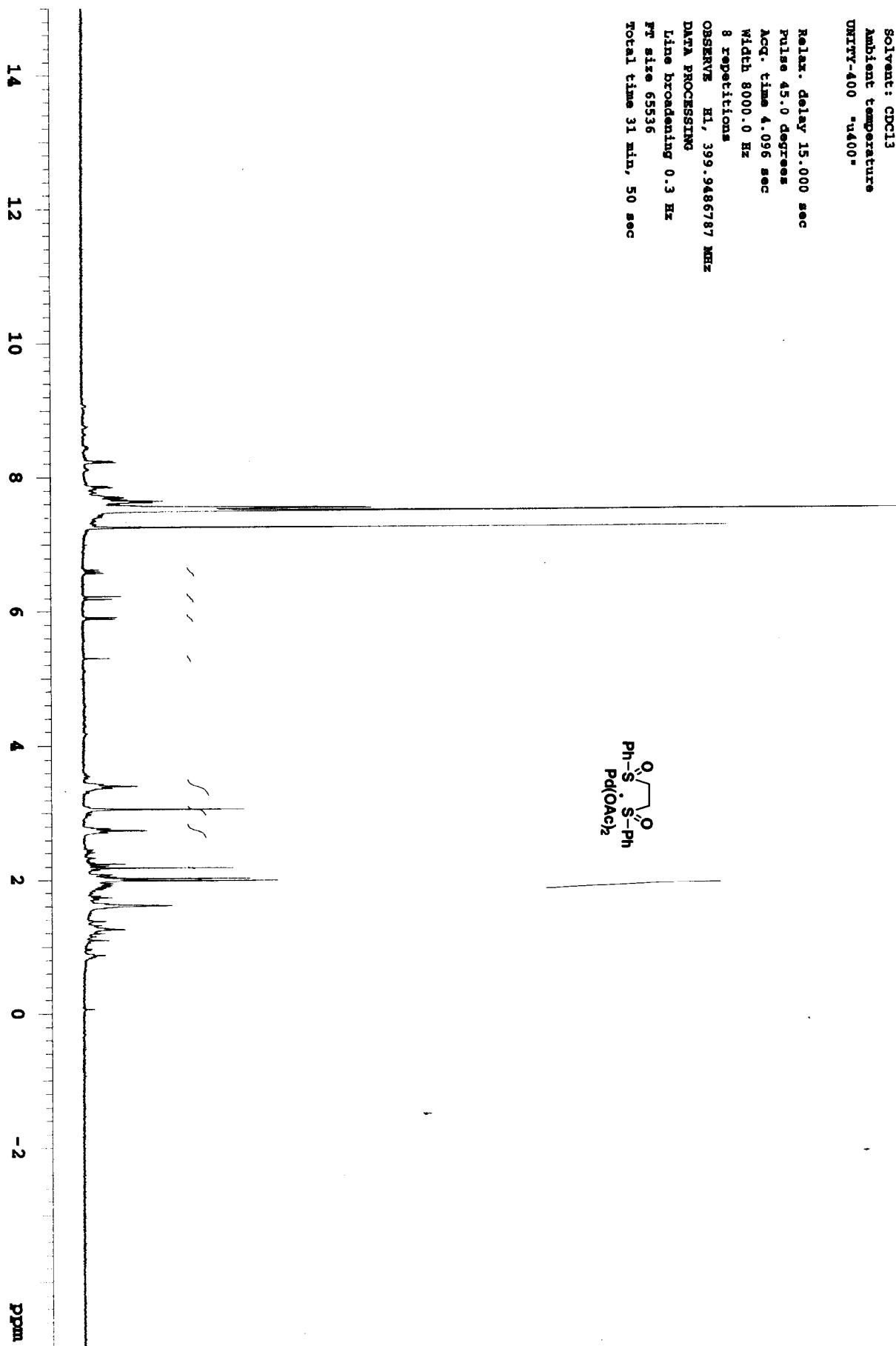
FT size 65536

Total time 1 hr, 12 min, 1 sec



Pulse Sequence: s2pul
Solvent: CDCl₃
Ambient temperature
UNIRV-400 "u400"

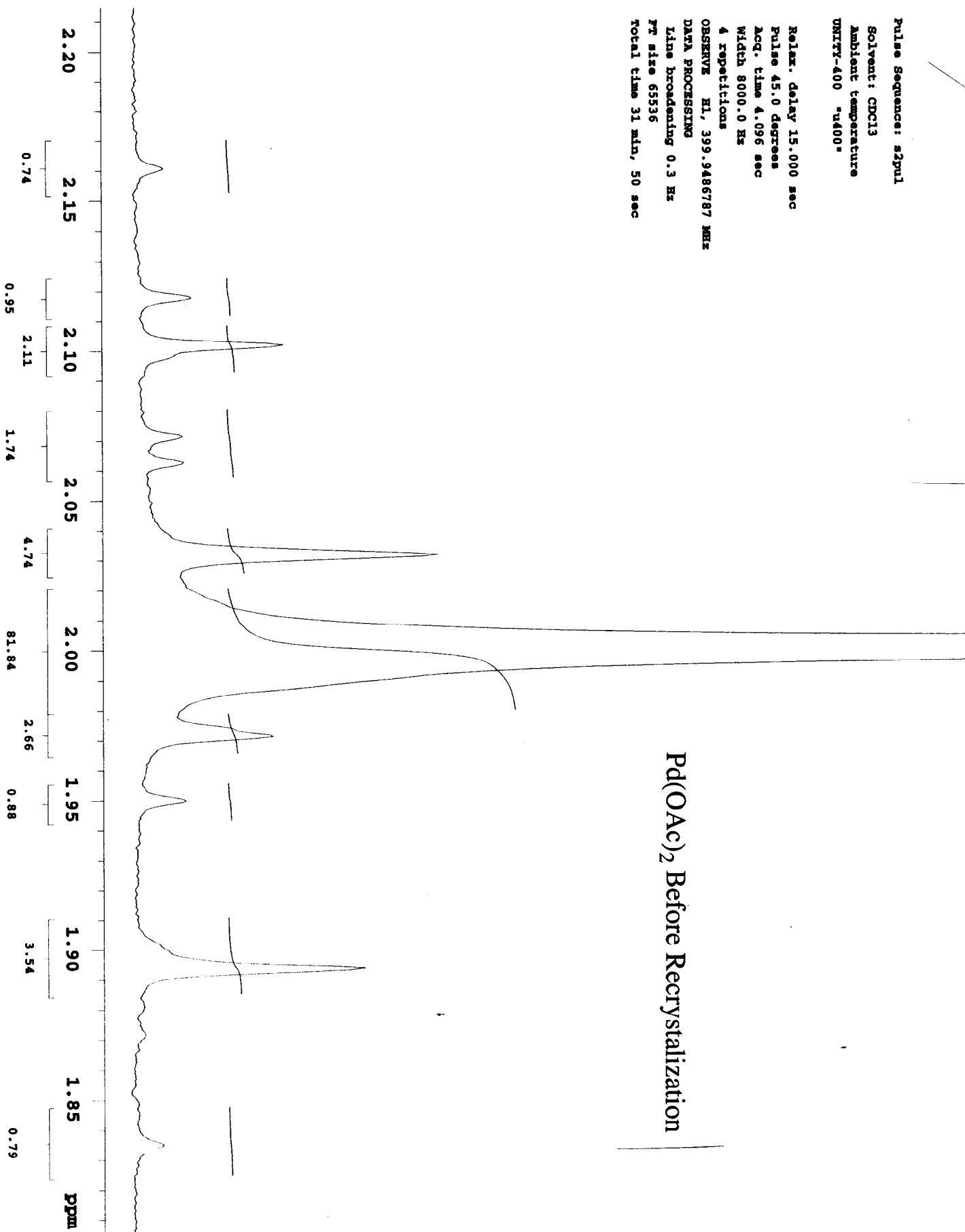
Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 399.9486787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



Pulse Sequence: s2pul
Solvent: CDCl₃
Ambient temperature
UNIT-400 "u400"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
4 repetitions
OBSERVE H1, 399.9486787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec

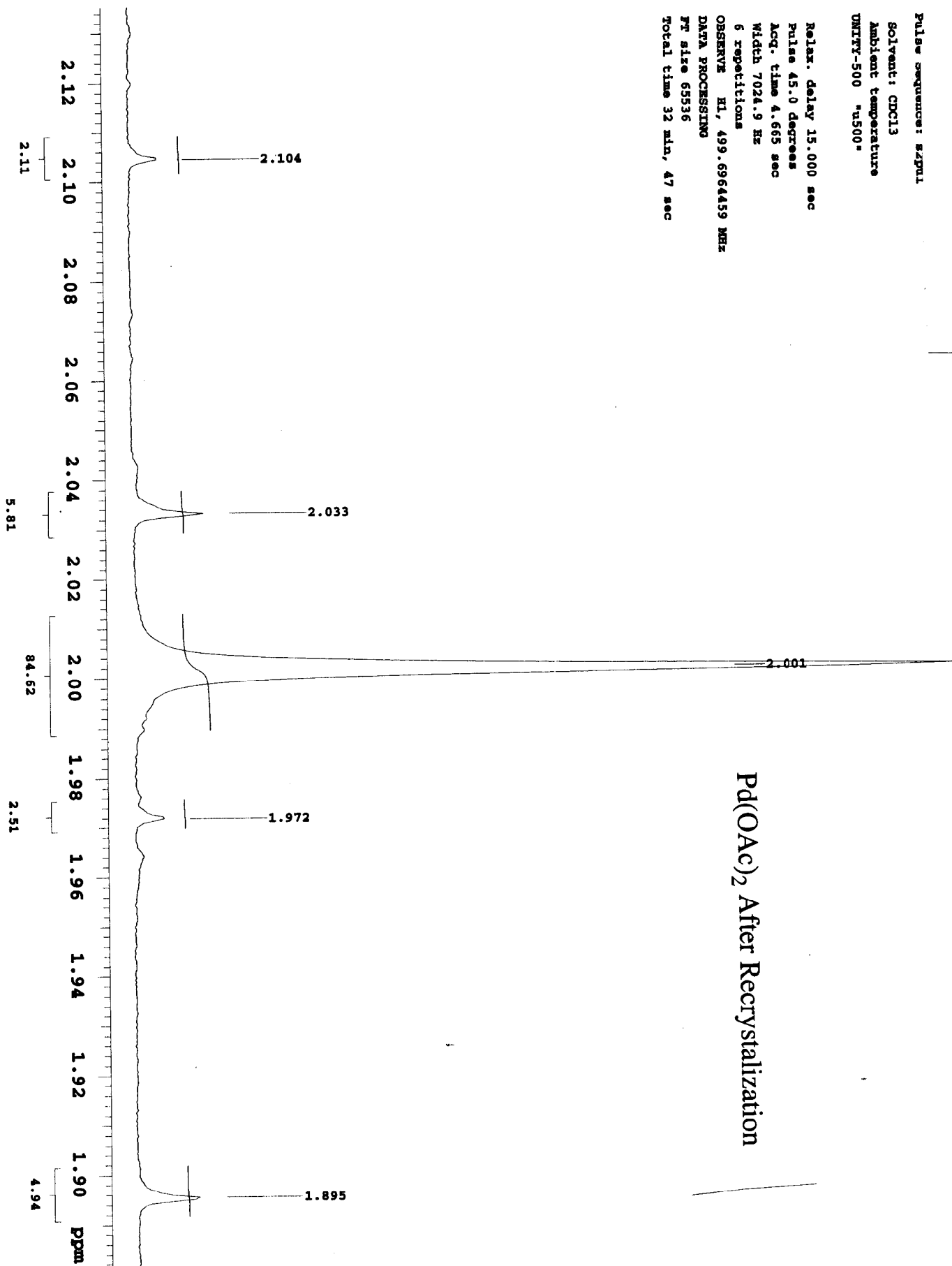
Pd(OAc)₂ Before Recrystallization



Pulse sequence: zgpg1
Solvent: CDCl₃
Ambient temperature
UNIT-500 "u500"

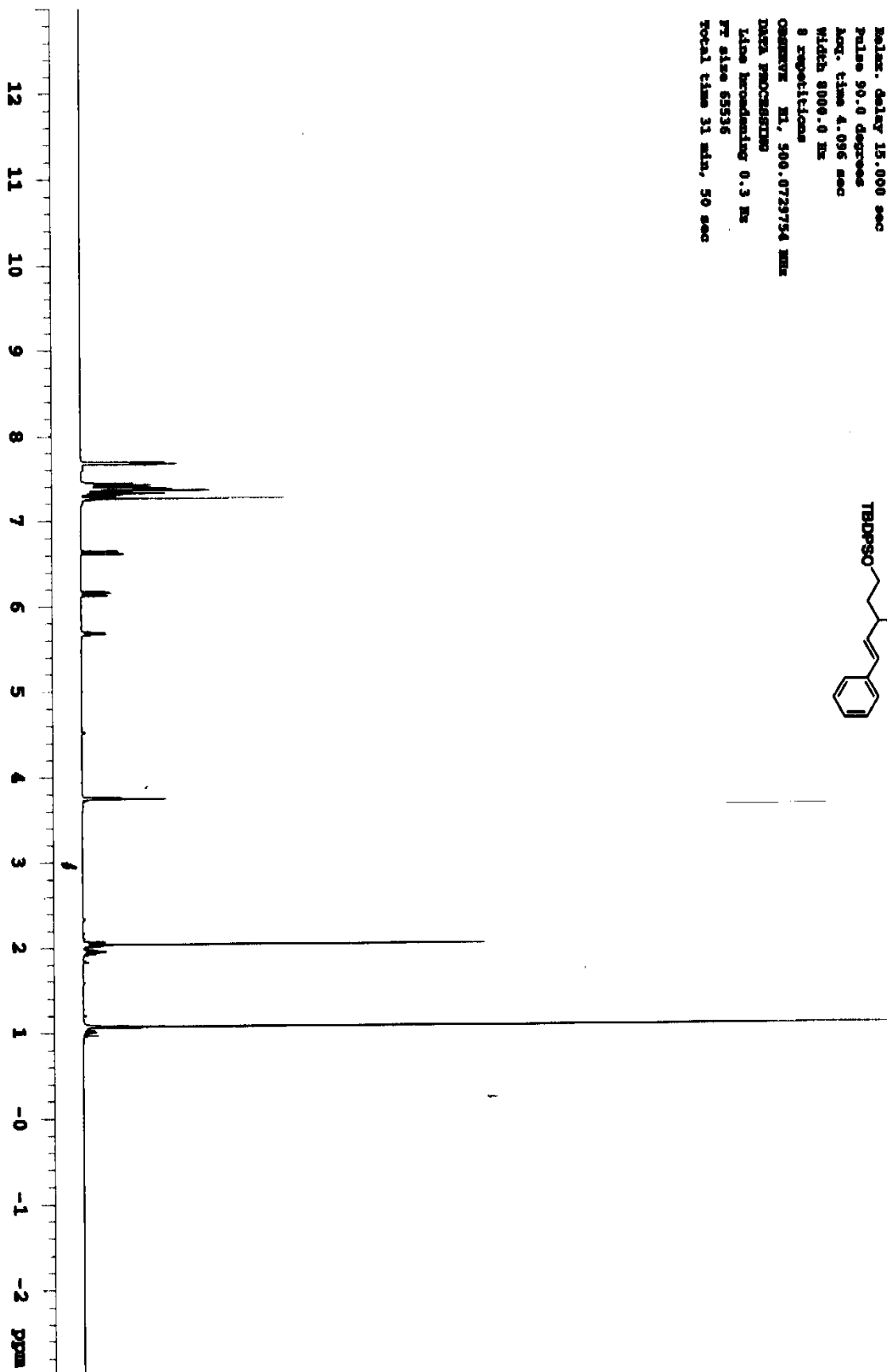
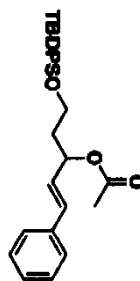
Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.665 sec
Width 7024.9 Hz
6 repetitions
OBSERVE E1, 499.6964459 MHz
DATA PROCESSING
F1 size 65536
Total time 32 min, 47 sec

Pd(OAc)₂ After Recrystallization



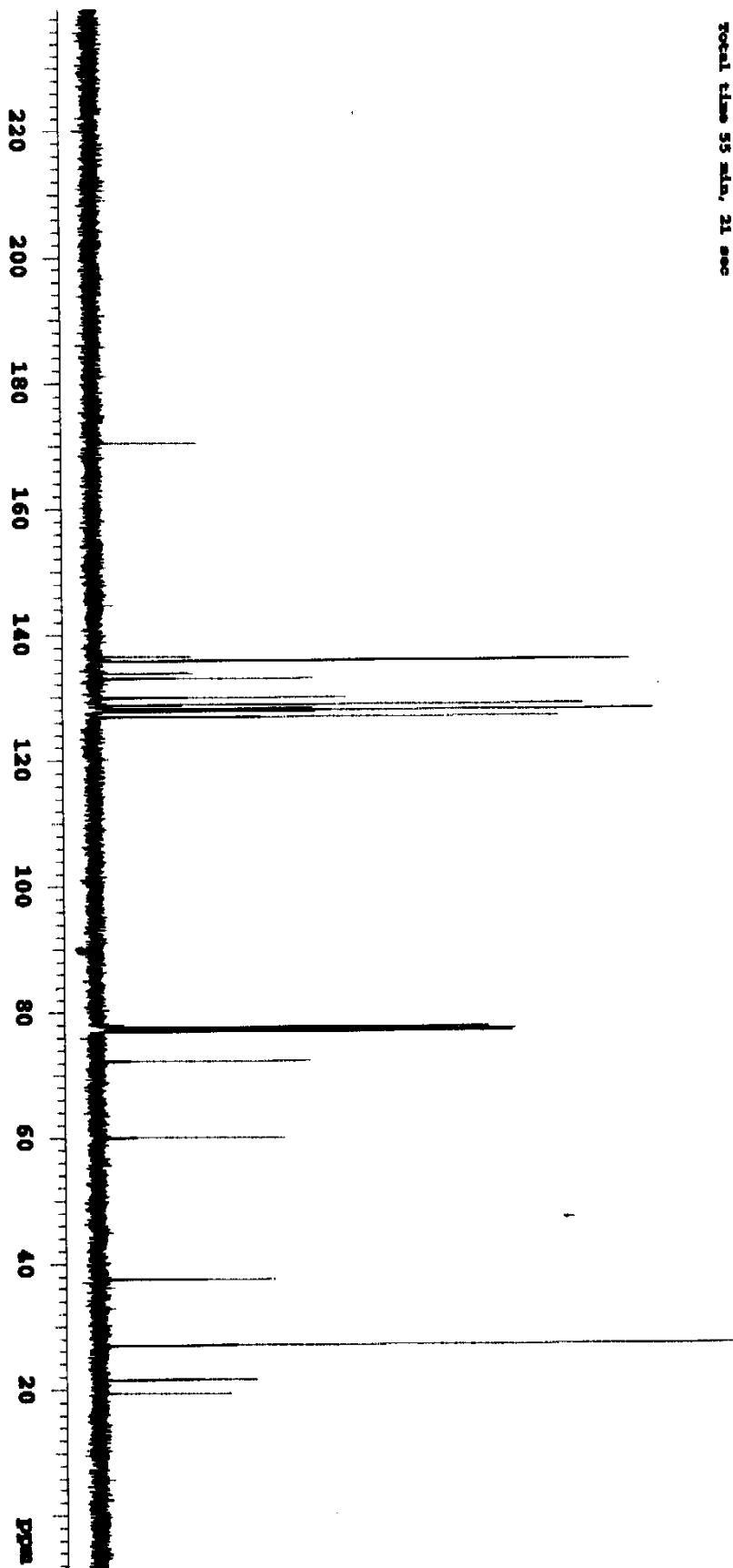
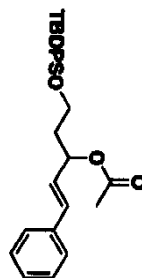
INNOVA-500 "u1.500ab"

Total time 31 min, 50 sec



UNIT-400 -u400-

Total time 55 min, 21 sec



Pulse sequence: zgpg30

Solvent: CDCl₃

Ambient temperature

UNIT-500 "vax500"

Relax. delay 15.000 sec

Pulse 50.0 degrees

Acq. time 4.095 sec

Width 8000.0 Hz

4 repetitions

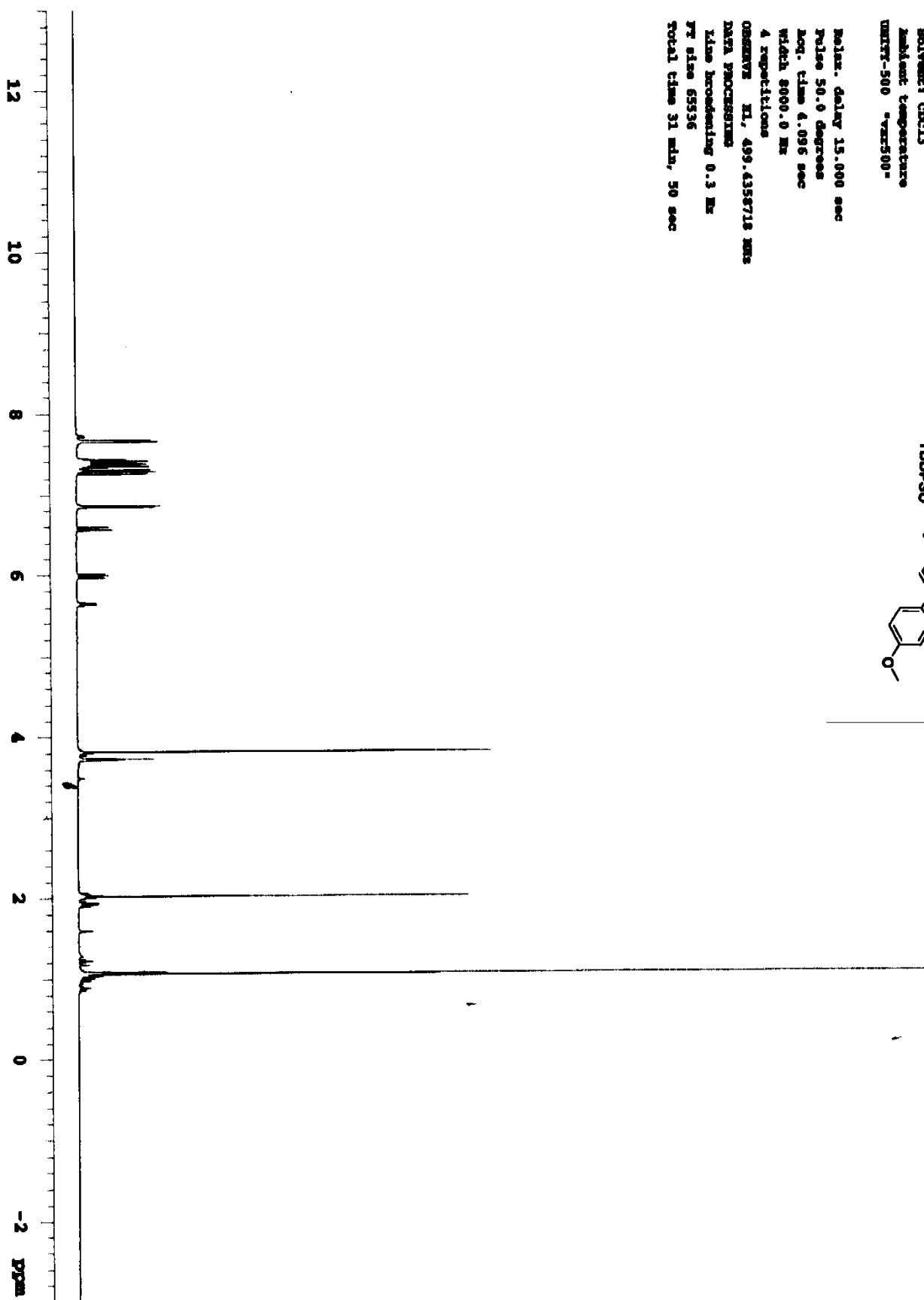
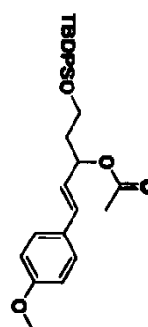
OBSERVE F1, 499.4356718 MHz

DATA PROCESSING

Line broadening 0.3 Hz

F2 also 65336

Total time 31 min, 50 sec



Pulse Sequence: zgpg1

Solvent: CDCl₃

Ambient temperature

User: 1-14-87

UNITS-500 "vzf500"

Dolax. delay 5.000 sec

Pulse 42.4 degrees

Acq. time 1.024 sec

Width 32000.0 Hz

126 repetitions

OBSERVE C13, 125.583247 MHz

INOCORPUL EL, 499.437375 MHz

Power 44 dB

continuously on

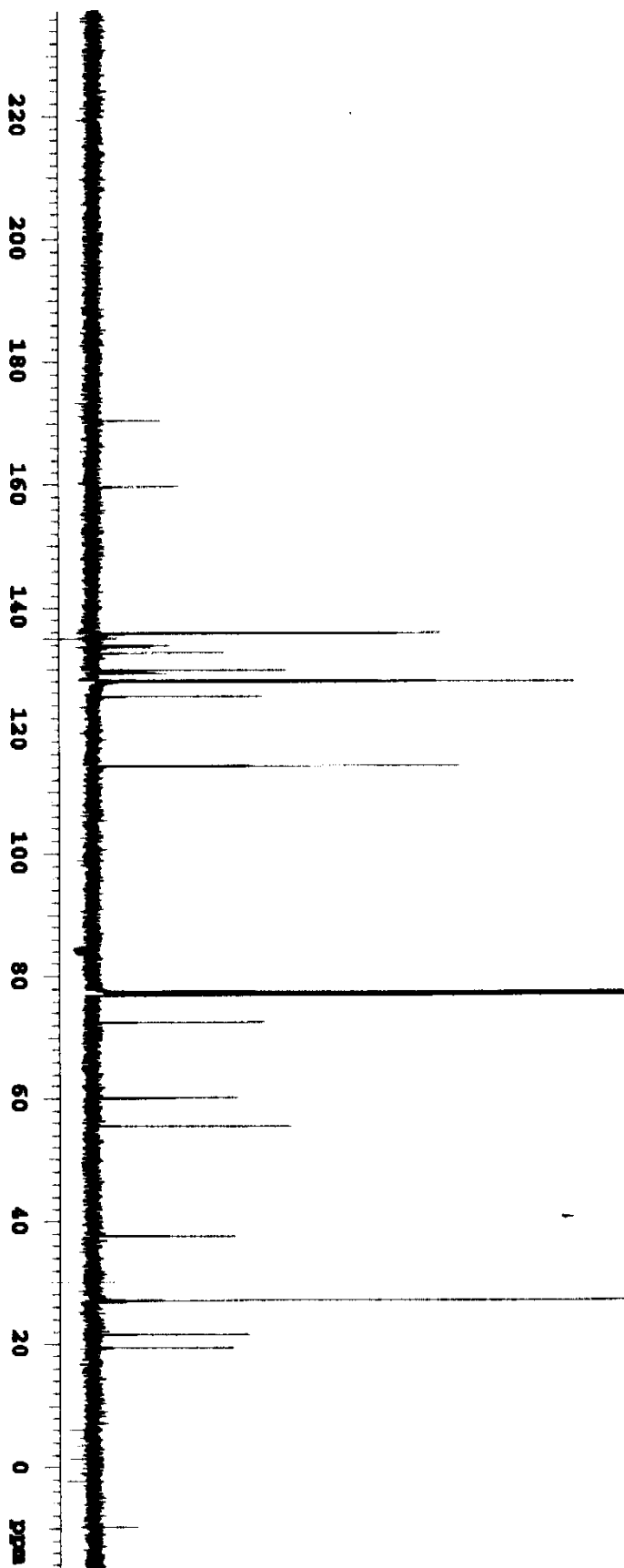
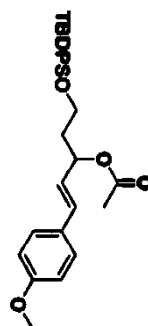
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

Total time 1 hr, 57 min, 14 sec



Pulse Sequence: zgpg30

Solvent: CDCl₃

Ambient temperature

UNITY-500 "vxt500"

Relax. delay 15.000 sec

Pulse 45.0 degrees

Acq. time 4.096 sec

Width 8000.0 Hz

8 repetitions

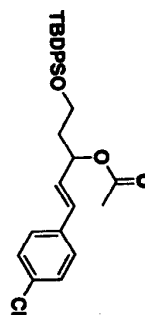
OBSERVE F1, 499.4358718 MHz

DATA PROCESSING

Line broadening 0.3 Hz

FT size 65536

Total time 31 min, 50 sec



Pulse sequence: zgpg1

Solvent: CDCl₃

Acidic temperature

DEPT-400 "400"

Relax. delay 1.000 sec

Pulse 45.0 degrees

Acq. time 1.311 sec

Width 25000.0 Hz

64 repetitions

Observed C13, 100.5671568 MHz

INSTRUM: IN, 399.9500118 MHz

Power 48 dB

continuously on

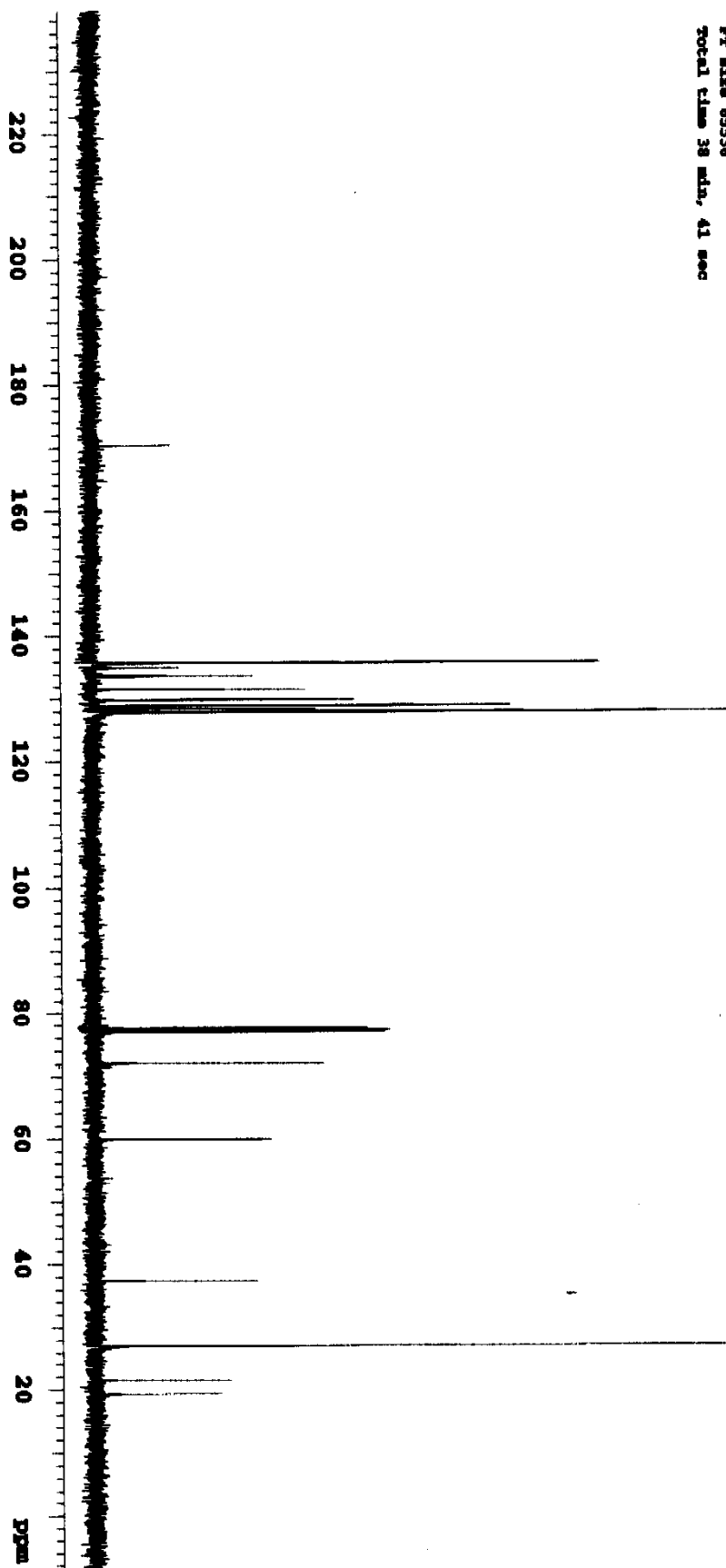
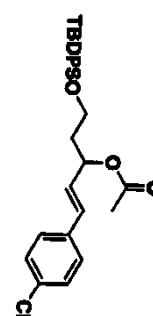
WATER-16 modulated

DATA PROCESSING

Time broadening 1.0 Hz

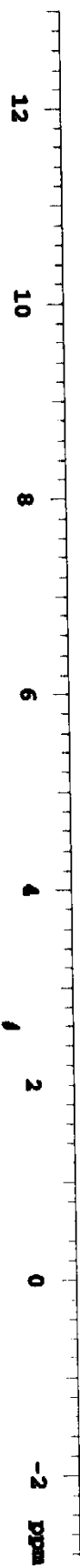
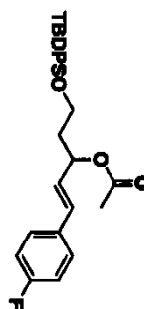
FT size 65536

Total time 38 min, 41 sec



Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNIT-500 "vax500"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
6 repetitions
OBSERVE H1, 499.4358718 MHz
DATA PROCESSING
Line broadening 0.3 Hz
F2 size 65536
Total time 31 min, 50 sec



Pulse sequence: zgpg1

Solvent: CDCl₃

ambient temperature

Use: 1-14-87

UNIT-300 "VARIAN"

Relax. delay 4.000 sec

Pulse 35.4 degrees

Acq. time 1.024 sec

Width 32000.0 Hz

32 repetitions

Observed CL3, 125.5831554 MHz

Decoupled H1, 499.4375375 MHz

Power 44 dB

continuously on

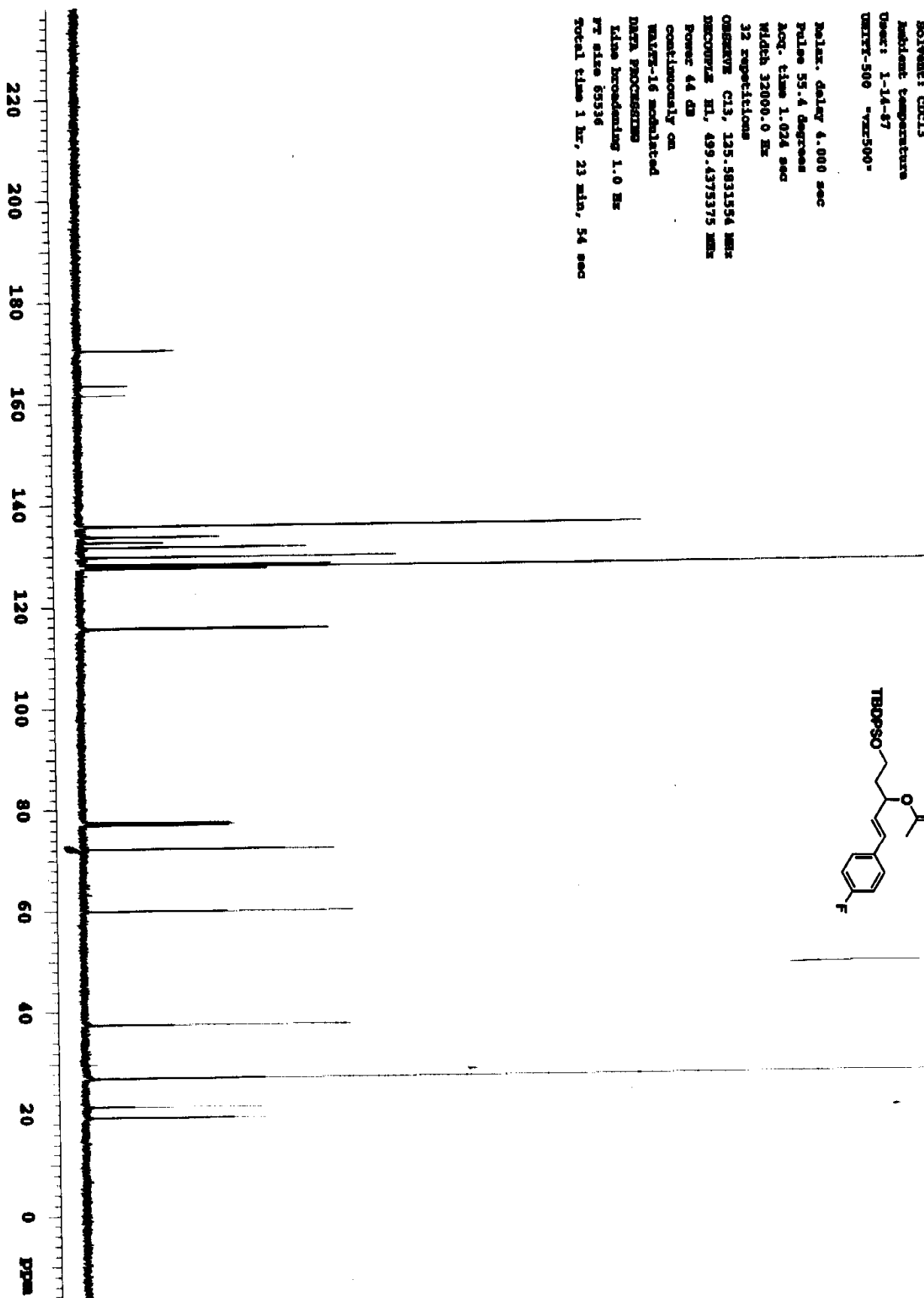
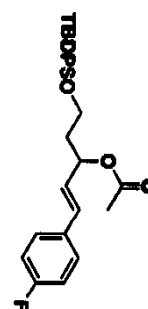
WALTZ-16 modulated

DATA PROCESSING

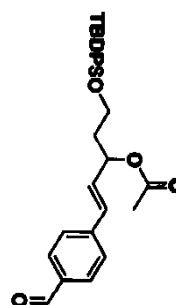
Time broadening 1.0 Hz

FT size 65536

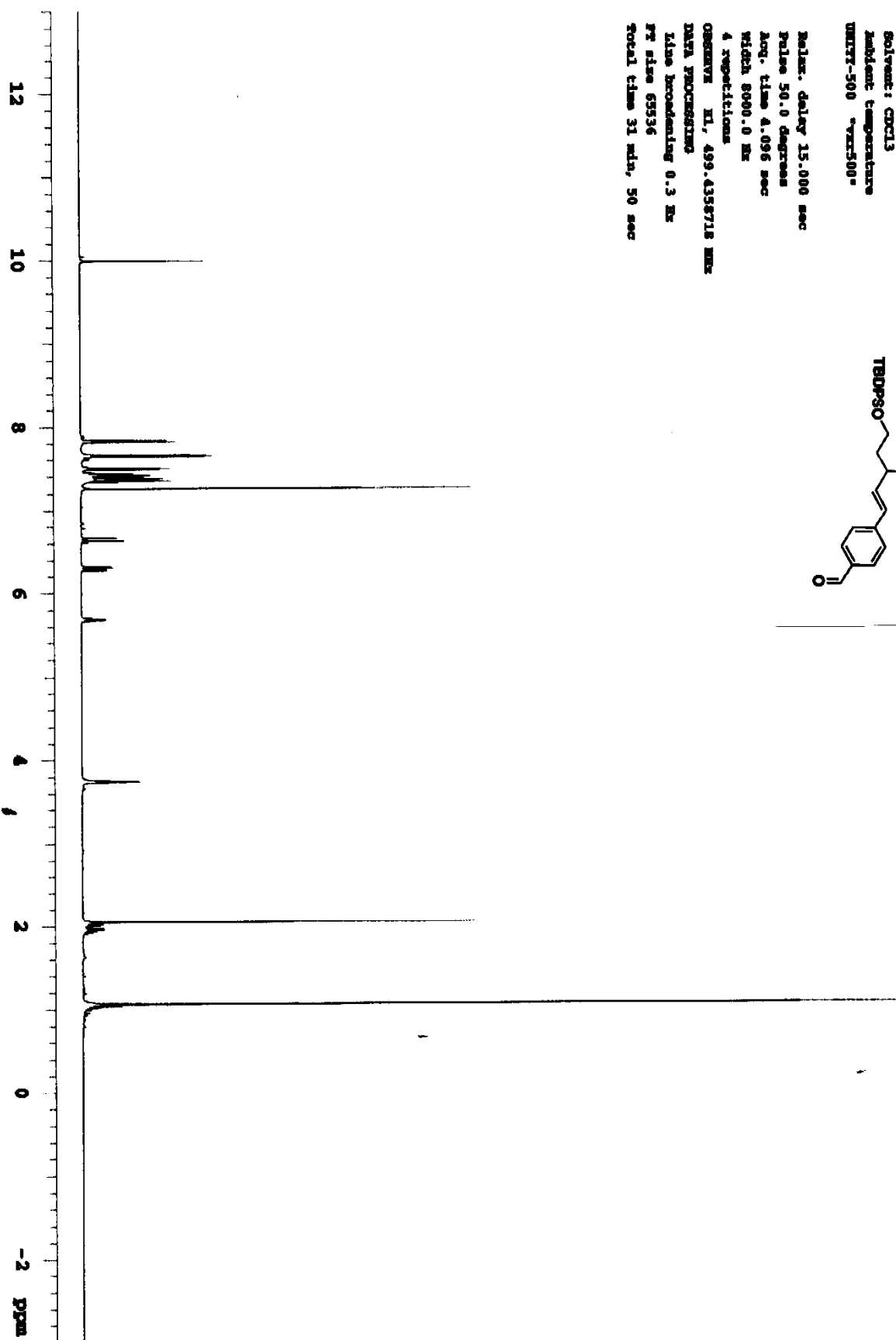
Total time 1 hr, 23 min, 54 sec



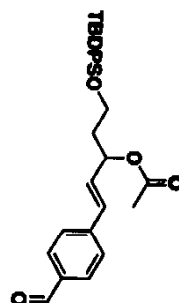
Pulse sequence: zgpg1
Solvent: CDCl3
Ambient temperature
UNIT-500 "vnc500"



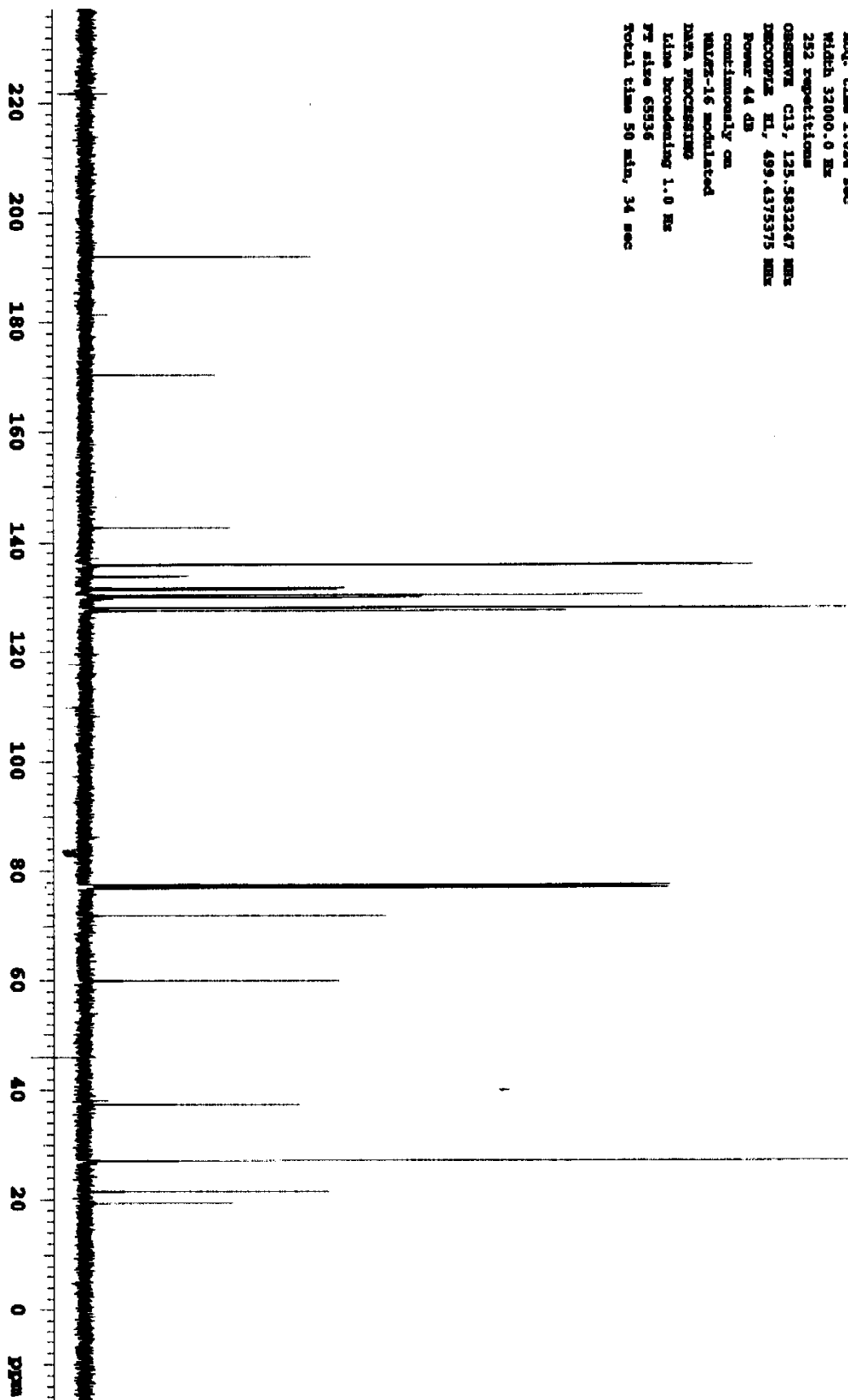
Relax. delay 15.000 sec
Pulse 50.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
4 repetitions
OBSERVE H1, 499.4358718 MHz
DATA PROCESSING
F2 also 65336
F2 also 65336
Total time 31 min, 50 sec



Pulse Sequence: zgpg30
Solvent: CDCl3
Acquisition temperature
User: 1-14-87
UNIT-500 "xyz500"



Relax. delay 2.000 sec
Pulse 42.4 degrees
Acq. time 1.024 sec
Width 32000.0 Hz
252 repetitions
OBSERVED C13, 125.583247 MHz
INCOMPLETE EL, 499.4375375 MHz
Power 44 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
PT also 65536
Total time 50 min, 34 sec



Pulse sequence: zgpg1

Solvent: CDCl₃

Ambient temperature

UNITY-400 "400"

Pulse delay 15.000 sec

Pulse 45.0 degrees

Acq. time 4.096 sec

Width 8000.0 Hz

8 repetitions

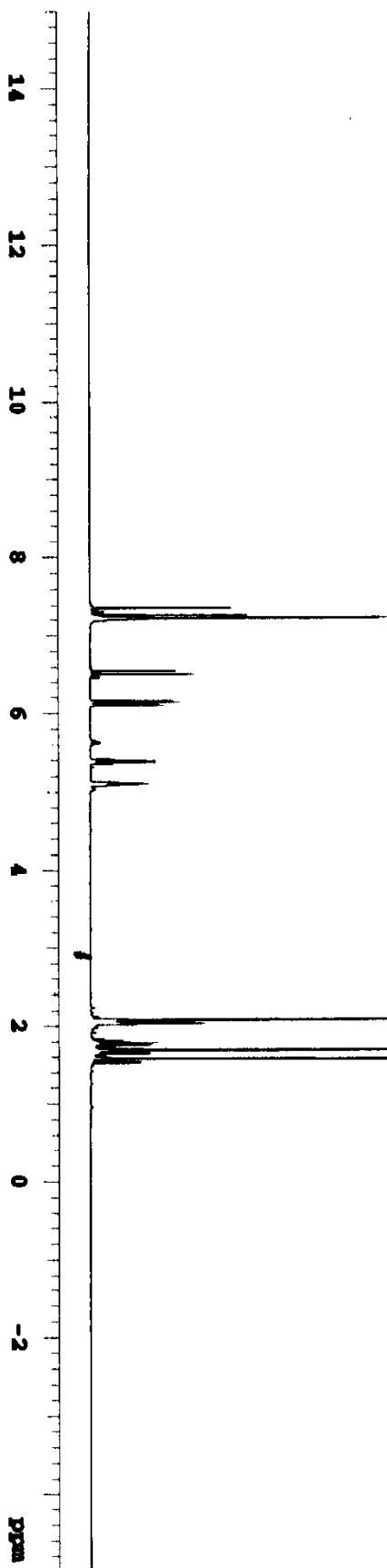
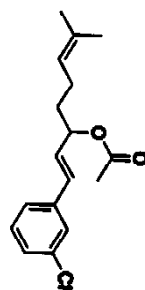
OBSERVED HL, 399.948787 MHz

DATA PROCESSING

Line broadening 0.3 Hz

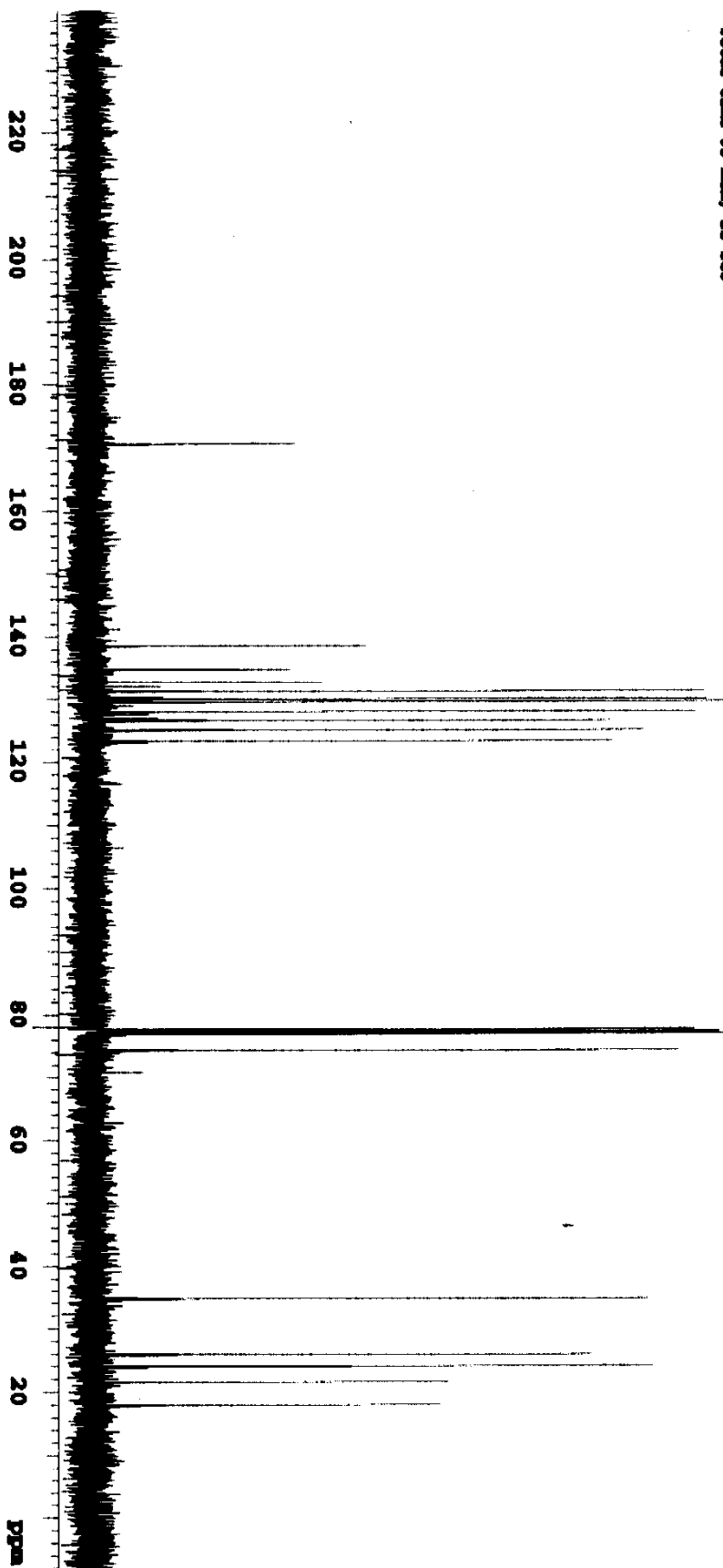
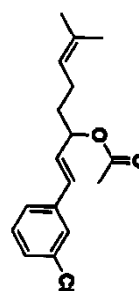
FT size 65536

Total time 31 min, 50 sec



Pulse Sequence: zgpg30
Solvent: CHCl₃
Ambient temperature
DEPT-400 "a400"

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
30 repetitions
OBSERVE CH1, 100.621561 MHz
DECOUPLE XL, 399.9500118 MHz
Power 48 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
F2 size 65536
F2 time 55 min, 21 sec



Pulse Sequence: zgpg30

Solvent: CDCl₃

Ambient temperature

UNITY-400 "u400"

Relax. delay 15.000 sec

Pulse 45.0 degrees

Acq. time 4.096 sec

Width 8000.0 Hz

4 repetitions

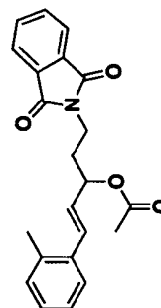
OBSERVE H1, 399.9486787 MHz

DATA PROCESSING

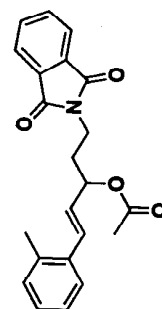
Line broadening 0.3 Hz

FT size 65536

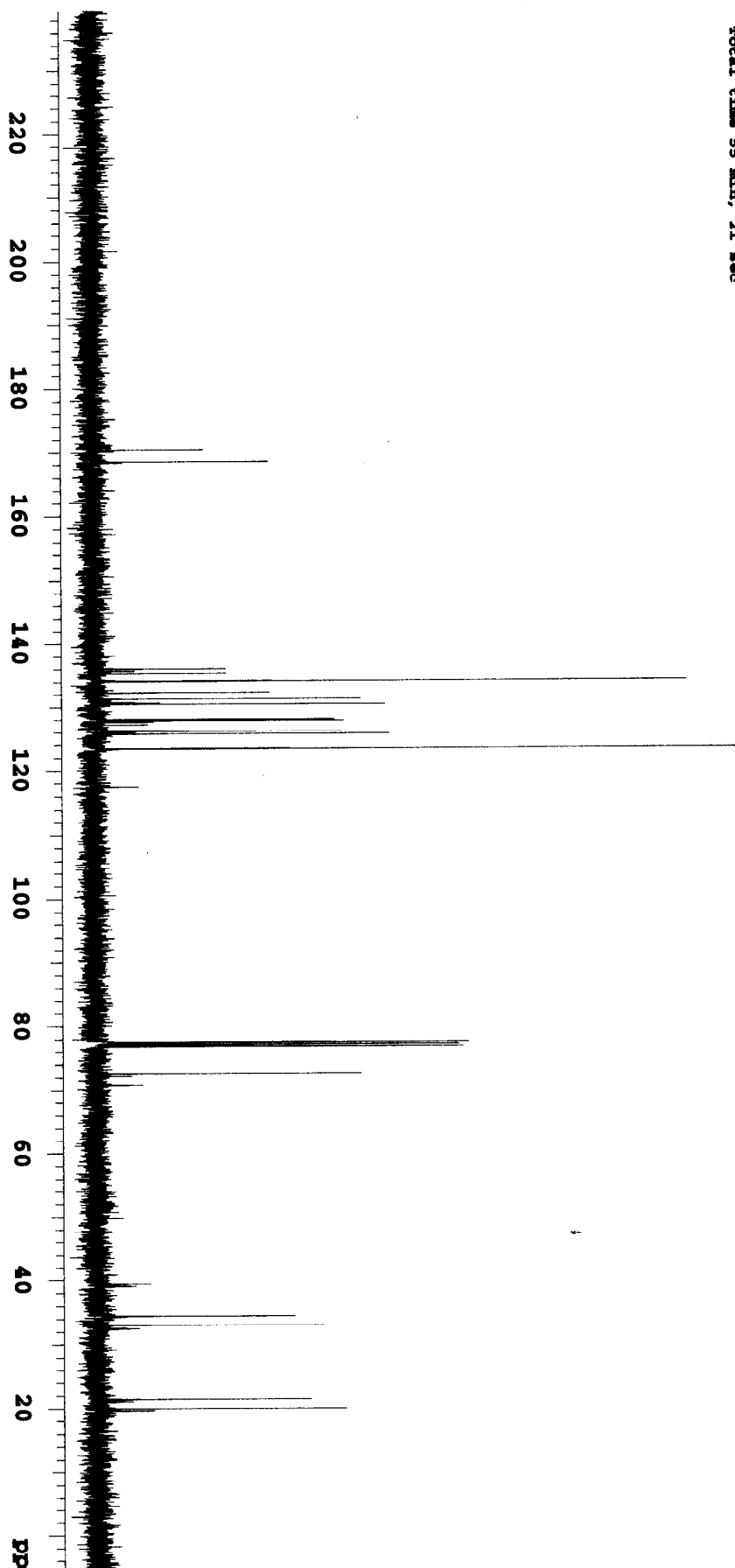
Total time 5 hr, 18 min, 26 sec



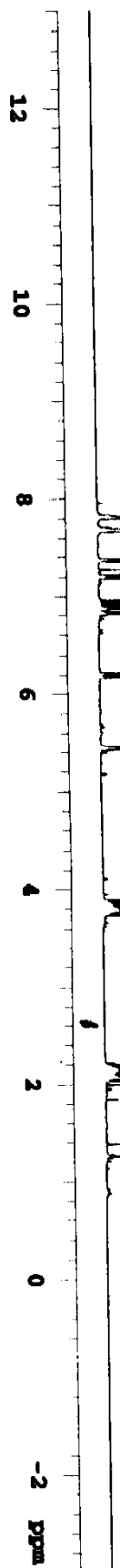
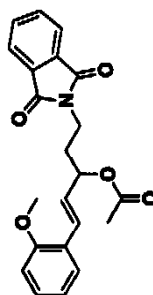
Pulse Sequence: s2pul
Solvent: CDCl₃
Ambient temperature
UNITY-400 "u400"



Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
30 repetitions
OBSERVE C13, 100.5671583 MHz
DECOUPLE H1, 399.9500118 MHz
Power 48 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
line broadening 1.0 Hz
FT size 65536
Total time 55 min, 21 sec



PT also 65536



Pulse sequence: zgpg1

Solvent: CDCl₃

Ambient temperature

Waltz: 1-14-87

UNIT-500 "vax500"

Relax. delay 4.000 sec

Pulse 55.4 degrees

Acq. time 1.024 sec

Width 3200.0 Hz

72 repetitions

CHARGE CL3, 125.5632316 MHz

INSTRUM HL, 499.437375 MHz

Power 44 dB

Continuously on

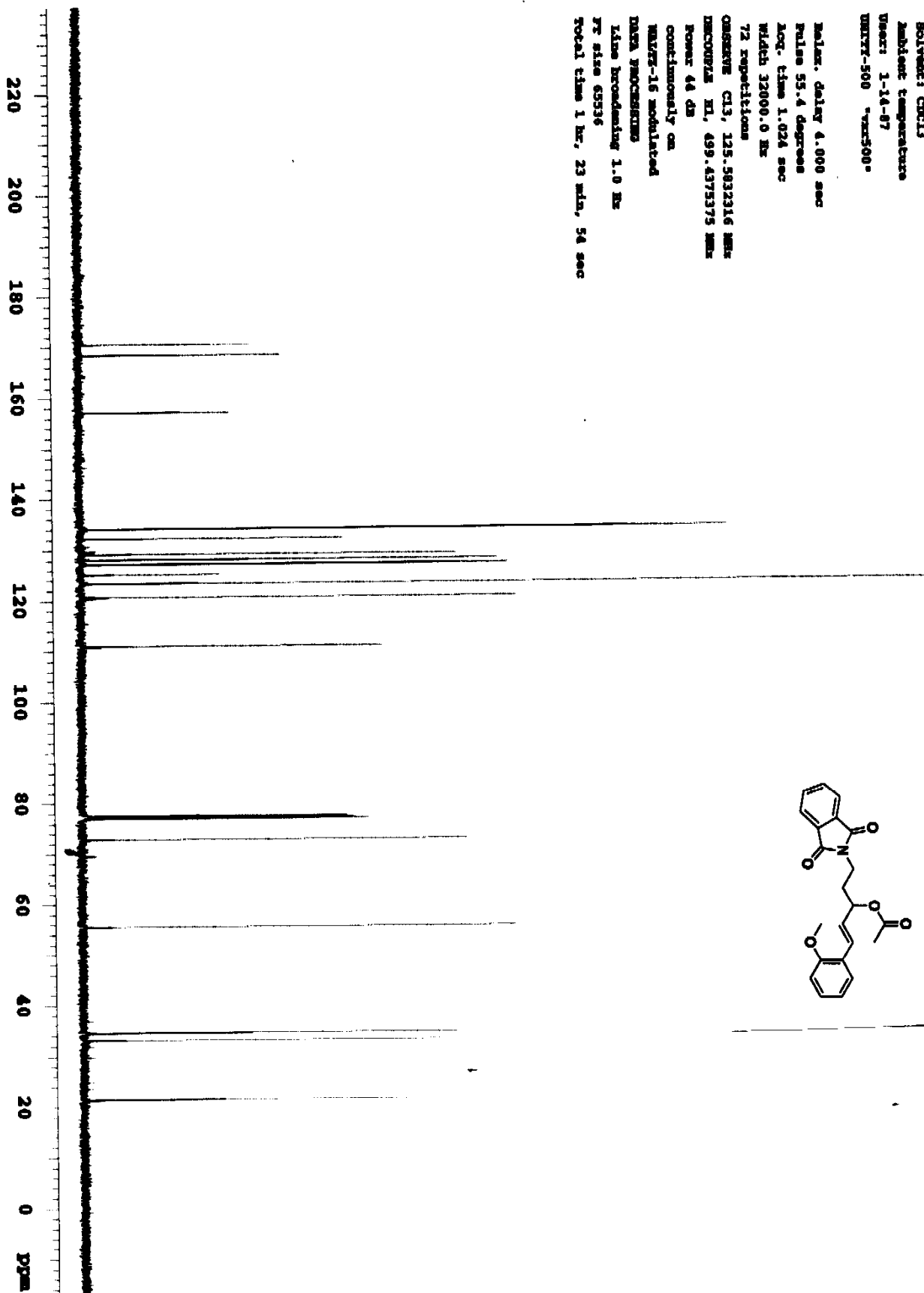
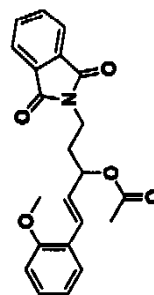
NAUTS-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

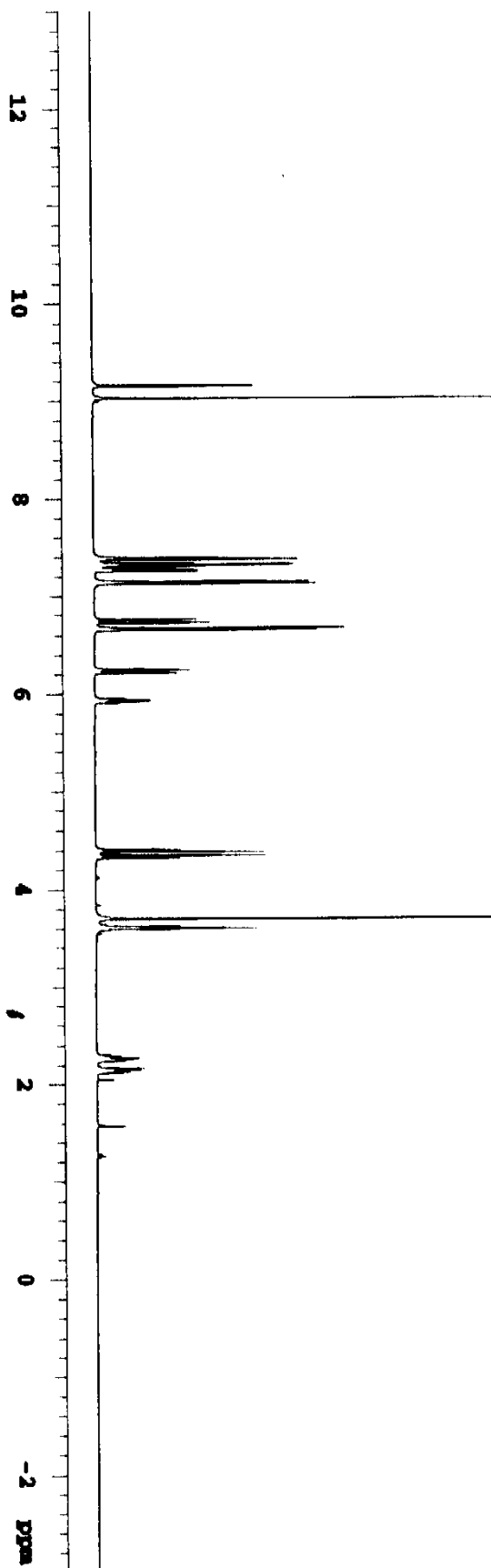
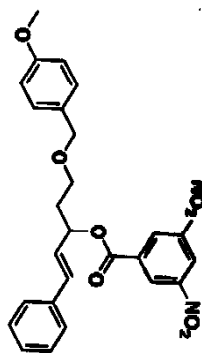
Total time 1 hr, 23 min, 54 sec



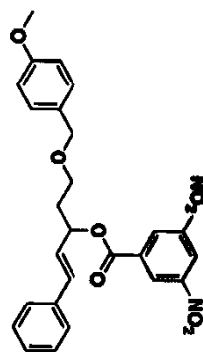
Pulse Sequence: zgpg1
Solvent: CDCl3
Ambient temperature
UNITY-500 "var500"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
8 repetitions

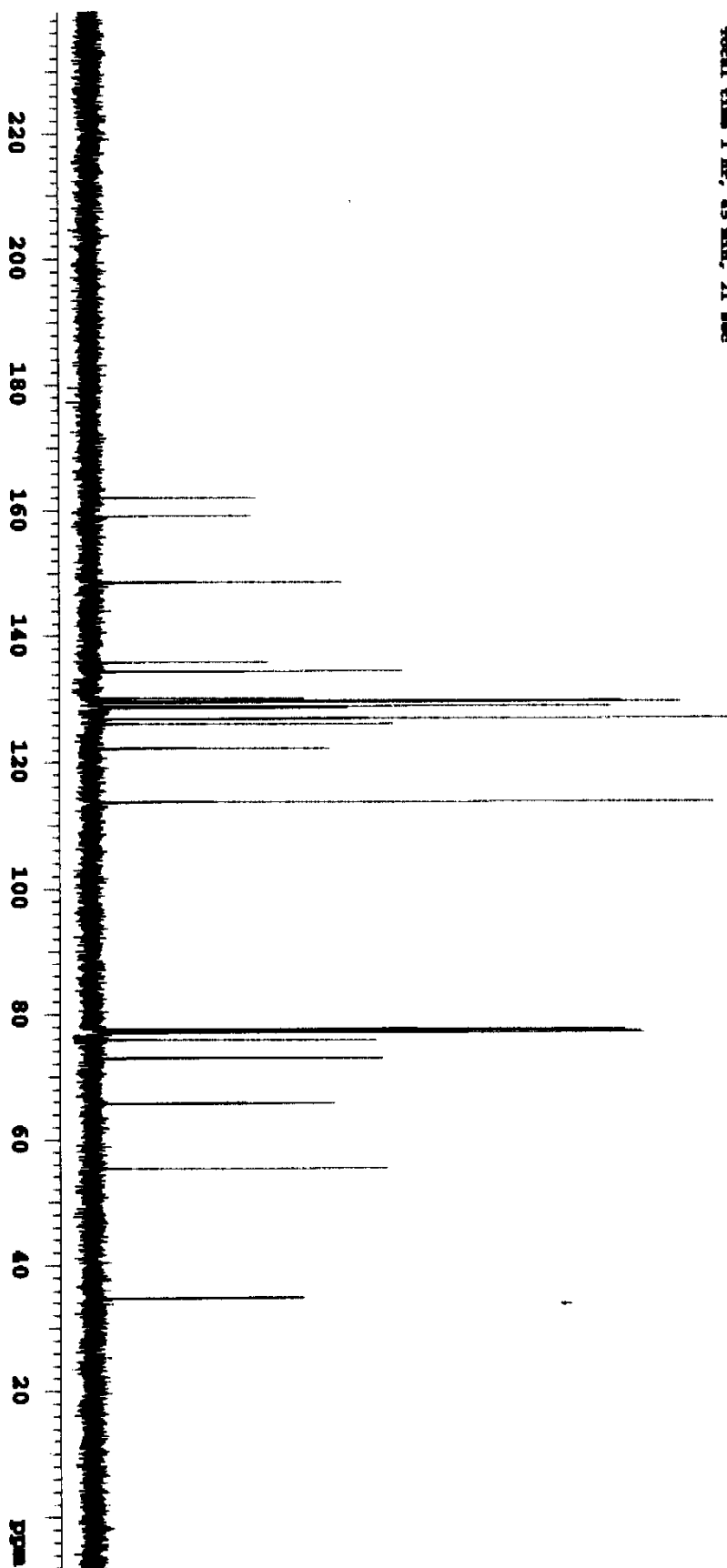
OBSERVE H1, 499.4358718 MHz
DATA PROCESSING
F2 size 65536
F2 time 31 min, 50 sec
Total time 31 min, 50 sec



Solvent: CDCl_3
 Ambient temperature
 UNITY-600 "u600"

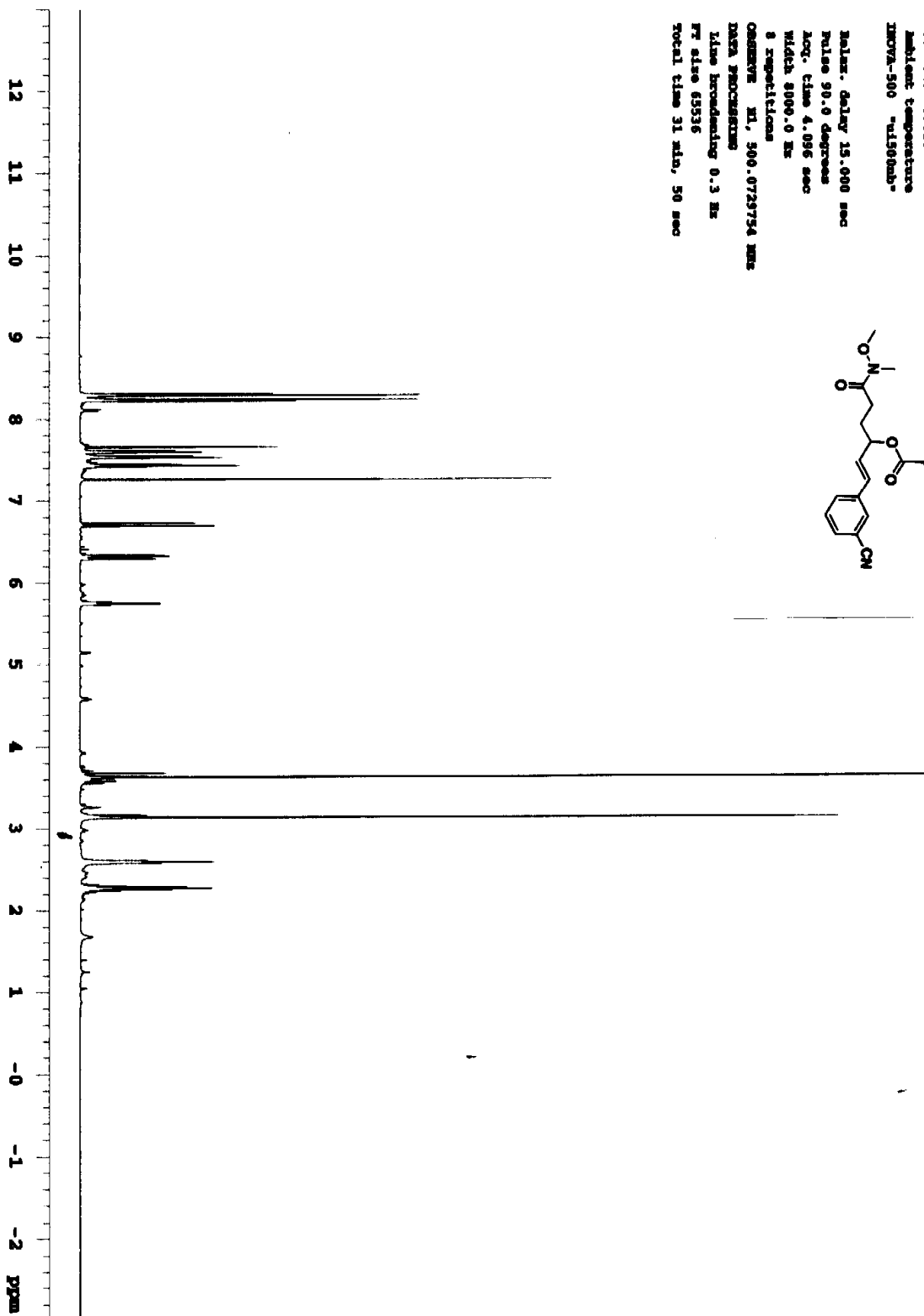
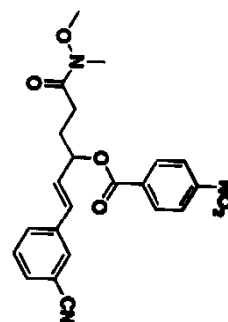


Delay, delay 5.000 sec
 Pulse 45.0 degrees
 Acq. time 1.311 sec
 Width 25000.0 Hz
 32 repetitions
 OBSERVE C13, 100.5671591 MHz
 DECOUPLER H1, 399.9500116 MHz
 Power 48 dB
 continuously on
 WALT-16 modulated
 DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 65536
 Total time 1 hr, 45 min, 21 sec



Pulse sequence: zgpg1
Solvent: CDCl3
Ambient temperature
INVT-500 "ul500mb"

Balance delay 15.000 sec
Pulse 90.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
3 repetitions
OBSERVED 11, 500.0729754 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



Pulse Sequence: zgpg1

Solvent: CDCl₃

Ambient Temperature

Acq: 1-14-87

INSTR: 500 "VARIAN"

Pulse: delay 4.000 sec

Pulse 55.4 degrees

Acq. time 1.024 sec

Wdth 32000.0 Hz

40 repetitions

OBSERVE: CL3, 125.583284 MHz

INOCORPIL: H1, 499.437375 MHz

Power 44 dB

continuously on

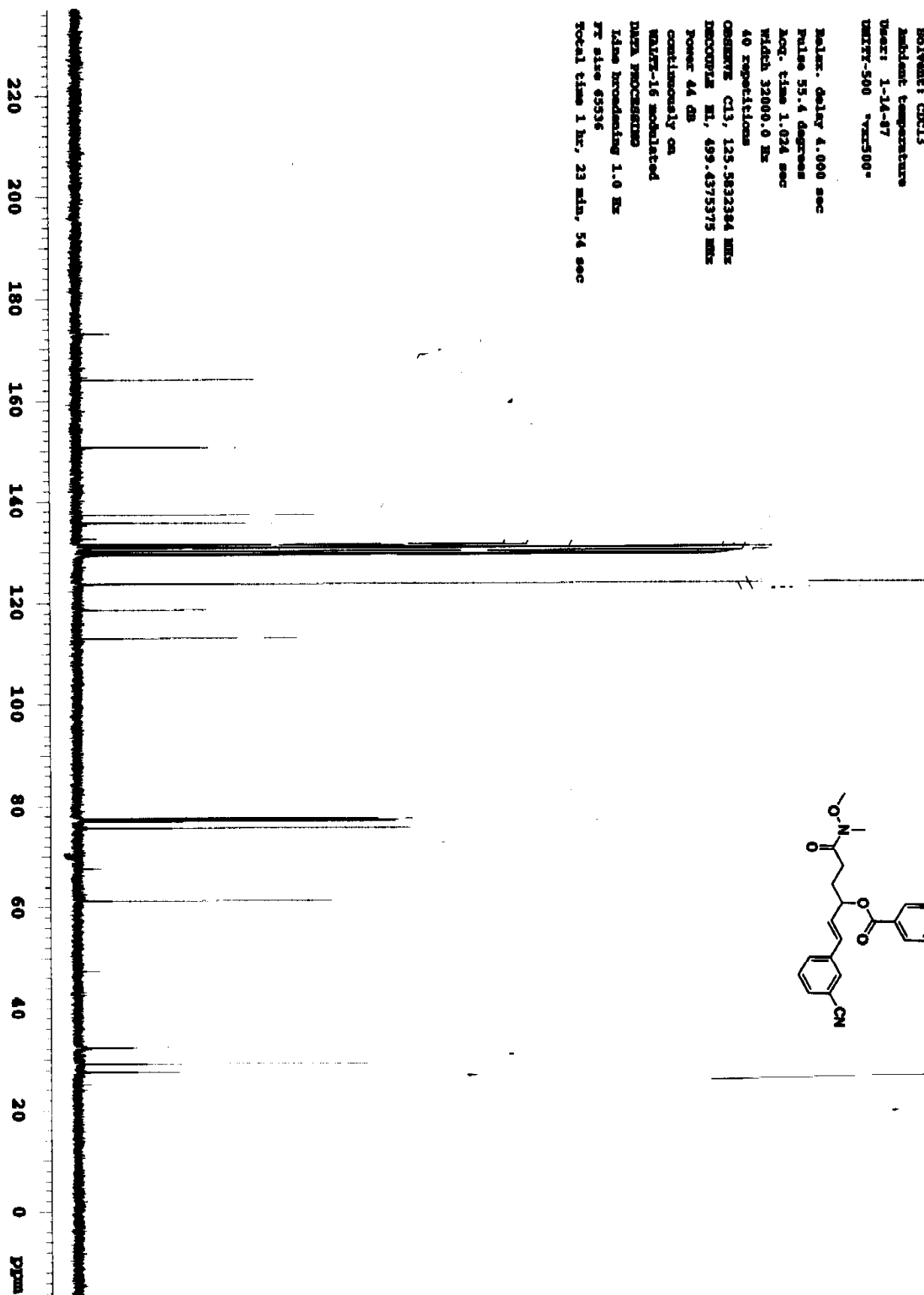
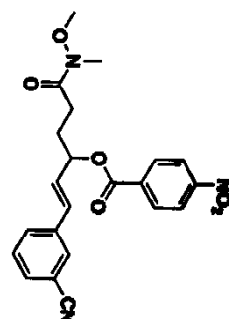
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

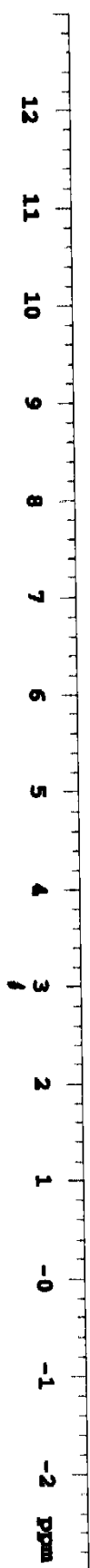
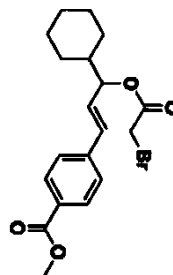
FF size 65536

Total time 1 hr, 23 min, 54 sec



Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
INSTR-500 "4500mb"

Relax. delay 15.000 sec
Pulse 90.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
repetitions
OBSERVE H1, 500.0729754 MHz
DATA PROCESSING
Line broadening 0.3 Hz
F2 size 65536
Total time 31 min, 50 sec



Pulse Sequence: zgpg30

Solvent: CDCl₃

Ambient temperature

User: 1-14-87

INSTR: 500 "vnm500"

Pulse: delay 2.000 sec

Pulse 42.4 degrees

Acq. time 1.024 sec

Width 3200.0 Hz

166 repetitions

Observed C13, 125.5832247 MHz

Decoupled H1, 499.4375375 MHz

Power 44 dB

continuously on

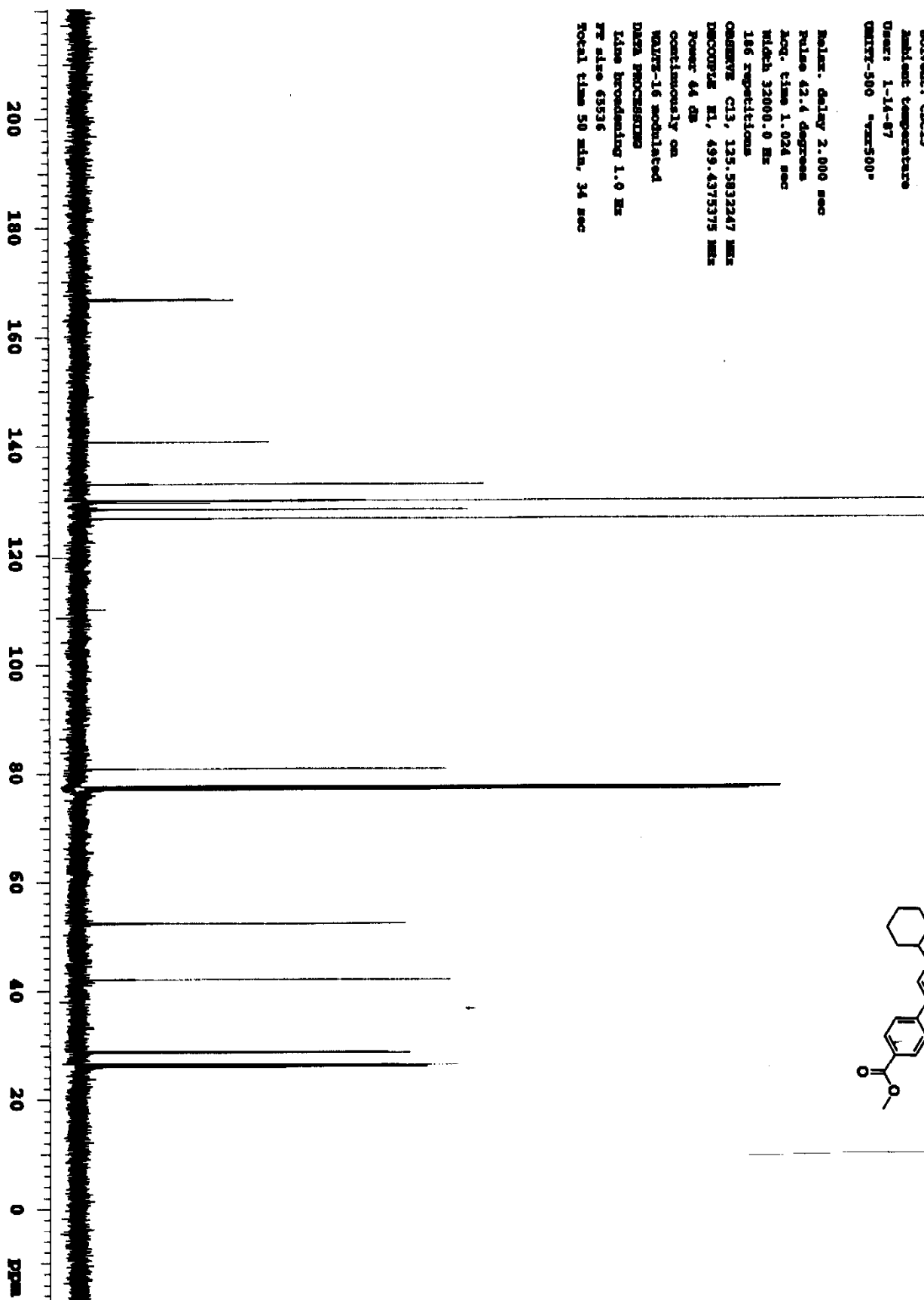
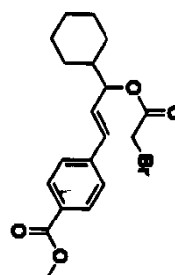
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

RG also 63536

Total time 50 min, 34 sec



Pulse Sequence: zgpg1

Solvent: CDCl₃

Ambient Temperature

UNIF-500 "Var500"

Relax. delay 15.000 sec

Pulse 45.0 degrees

Acq. time 4.096 sec

Width 8000.0 Hz

4 repetitions

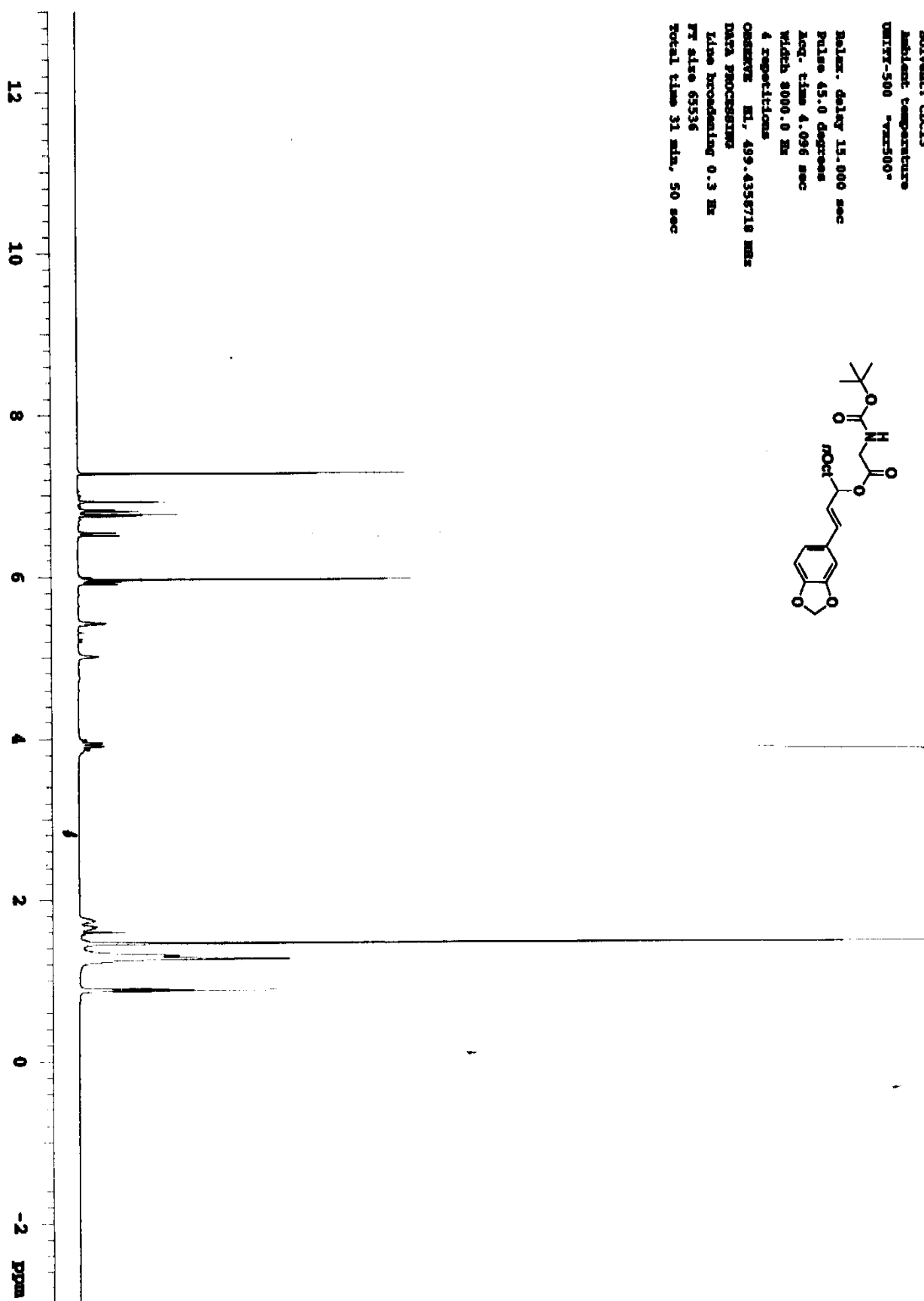
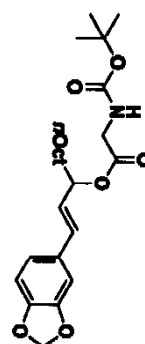
OBSERVED F1, 499.4356718 MHz

DATA PROCESSING

Line broadening 0.3 Hz

F2 also 65536

Total time 31 min, 50 sec



Pulse Sequence: zgpg1

Solvent: CDCl₃

Ambient temperature

UNIT-400 "400"

Pulse delay 2.000 sec

Pulse 45.0 degrees

Acq. time 1.311 sec

Width 25000.0 Hz

664 repetitions

OBSERVE C13, 100.5671538 MHz

DECOUPLE H1, 399.3500118 MHz

Power 48 dB

continuously on

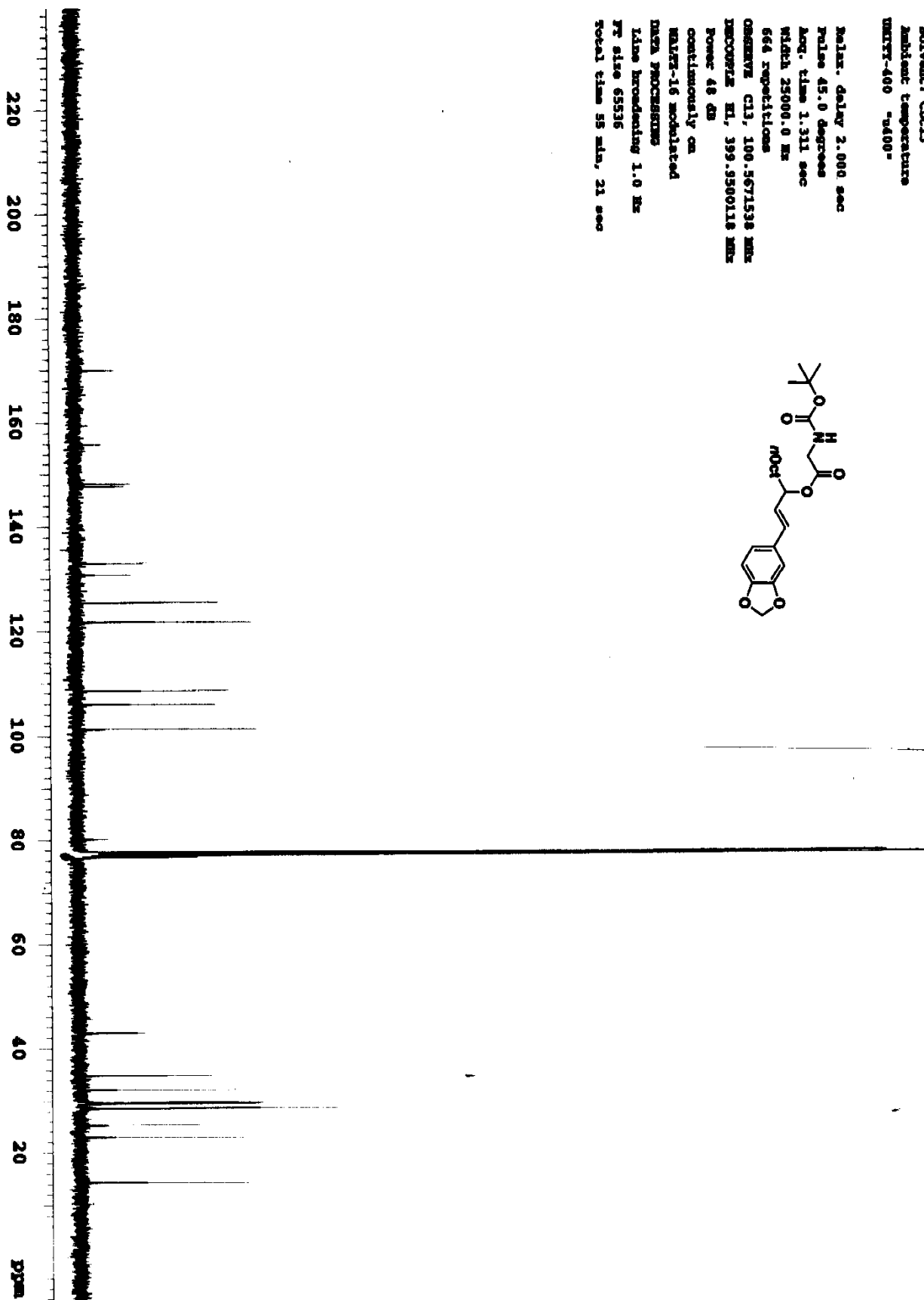
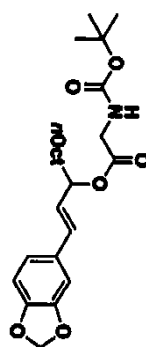
MAGN-16 isolated

DATA PROCESSING

Line broadening 1.0 Hz

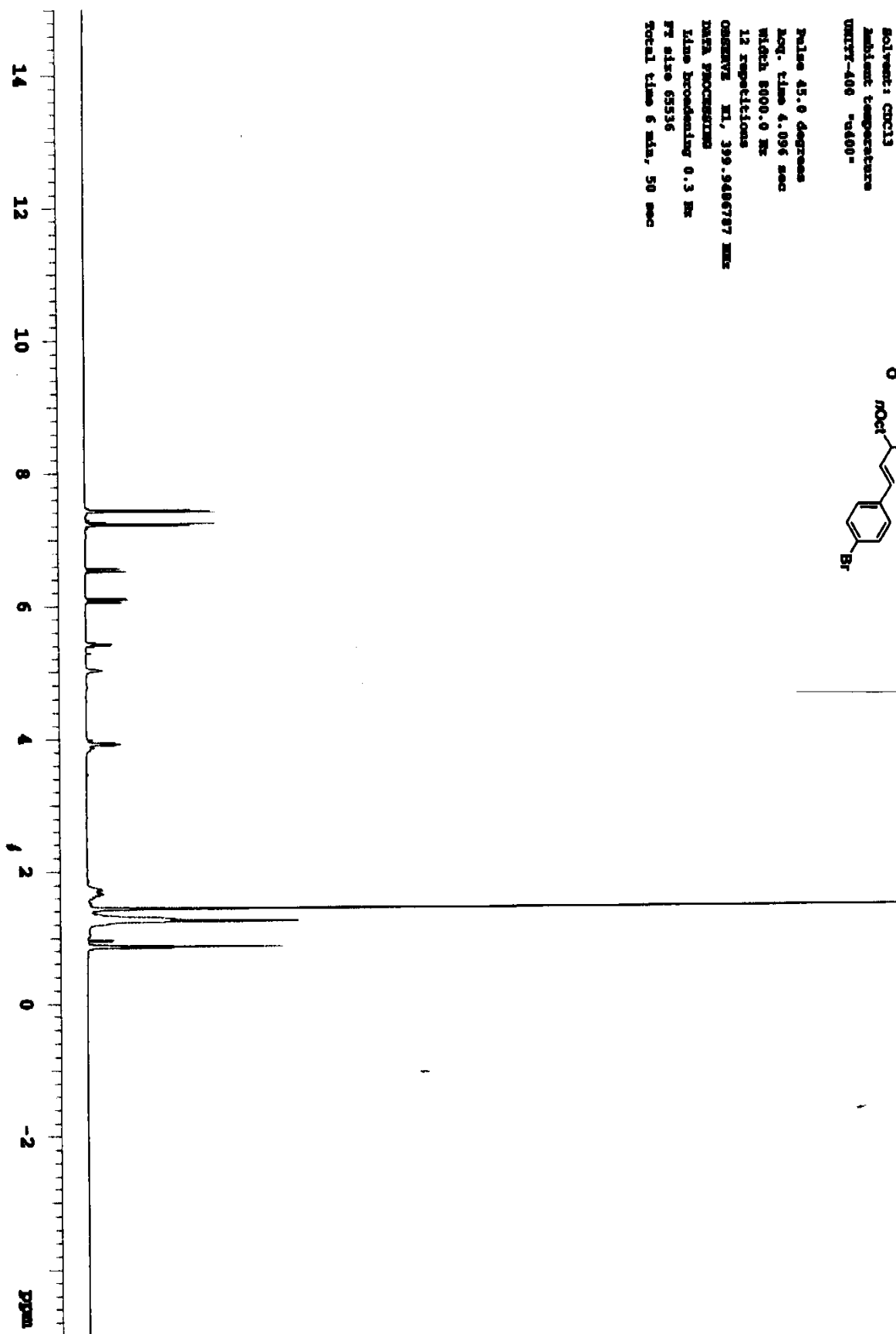
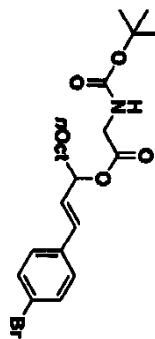
F2 file 65536

Total time 55 min, 21 sec



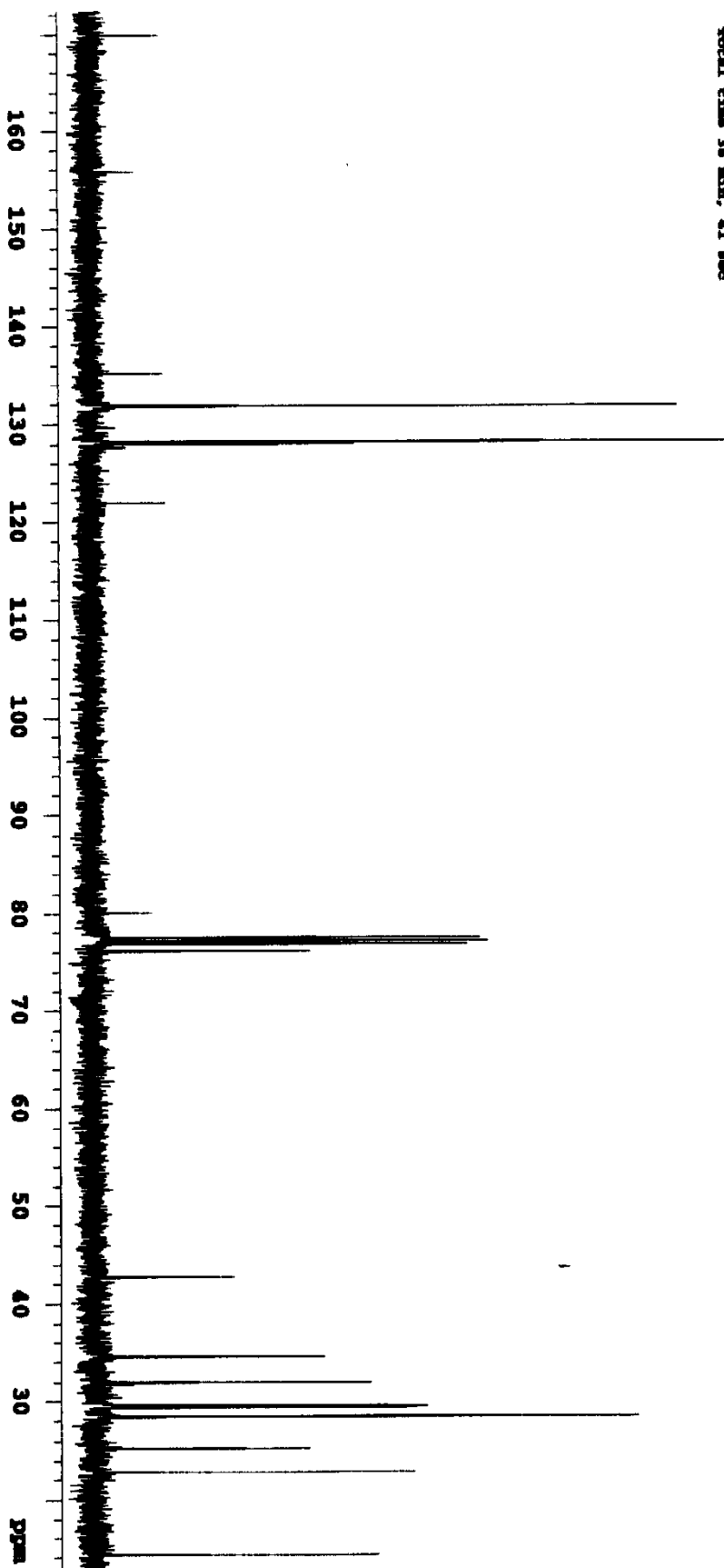
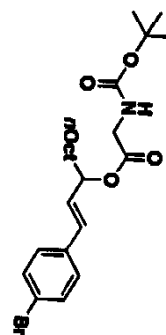
Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNIT-400 "u400"

Pulse 45.0 degrees
Acq. time 4.096 sec
width 8000.0 Hz
12 repetitions
OBSERVE XL, 399.946787 MHz
DATA PROCESSING
Time preceding 0.3 Hz
FT size 65536
Total time 6 min, 50 sec



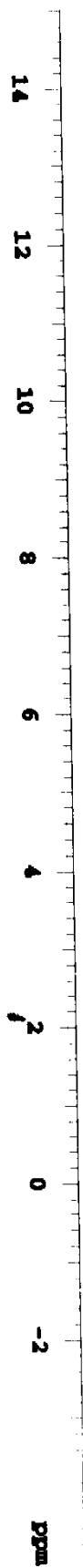
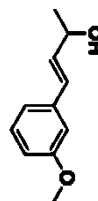
Pulse Sequence: zgpg1
Solvent: CHCl₃
Ambient Temperature
PMT-400 "w400"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
56 repetitions
OBSERVE CH3, 100.5671606 MHz
INOCURVX RL, 399.9500118 MHz
Power 48 dB
continuously on
NUC1-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536
Total time 38 min, 41 sec

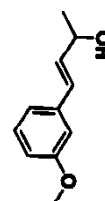


Pulse Sequence: zgpg30
Solvent: CDCl3
Ambient temperature
UNREF-400 "u400"

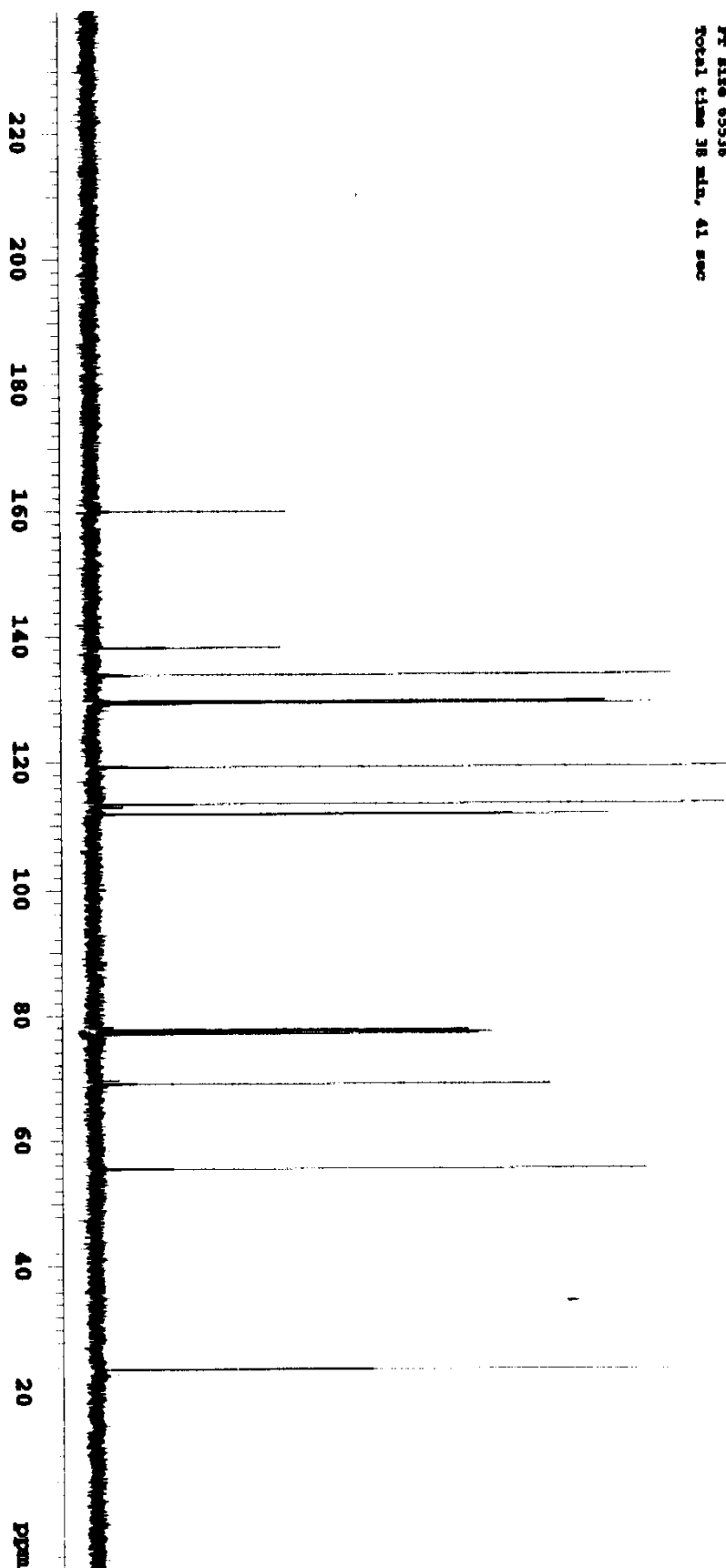
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 399.9486787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 6 min, 50 sec



Pulse Sequence: zgpg1
Solvent: CDCl3
Ambient temperature
PULPRO-400 "4400"

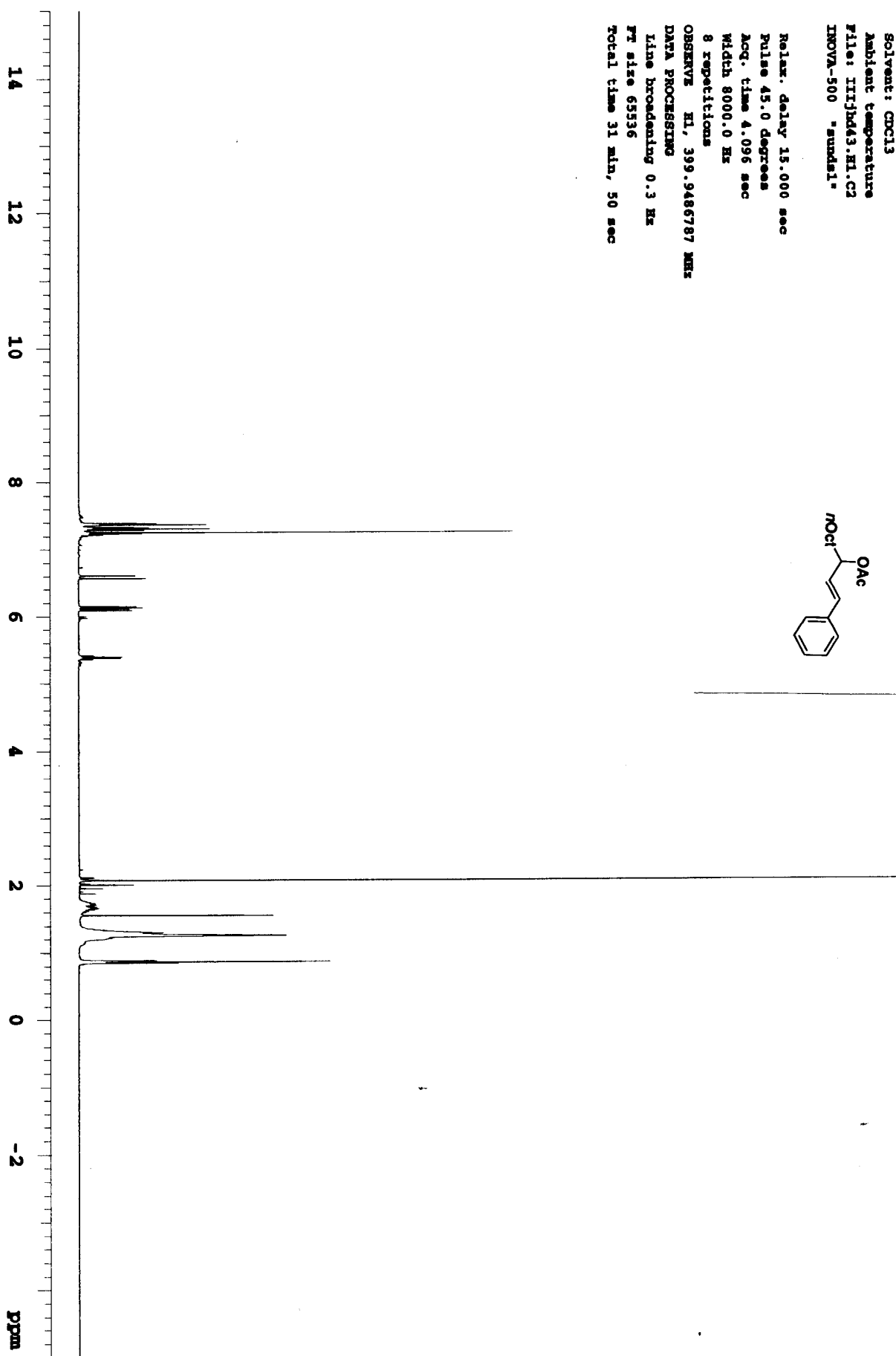
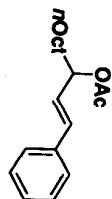


Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
160 repetitions
OBSERVE C13, 100.5671583 MHz
DECOUPLE H1, 399.3500118 MHz
Power 48 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
RG size 65536
Total time 38 min, 41 sec



Pulse Sequence: s2pul
Solvent: CDCl₃
Ambient temperature
File: IIRjhd43.H1.C2
INOVA-500 "sundsl"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 399.9486787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



Pulse Sequence: s2pul

Solvent: CDCl₃

Ambient temperature

UNITY-400 "n400"

Relax. delay 2.000 sec

Pulse 45.0 degrees

Acq. time 1.311 sec

Width 25000.0 Hz

104 repetitions

OBSERVE C13, 100.5671512 MHz

DECOUPLE H1, 399.9500118 MHz

Power 48 dB

continuously on

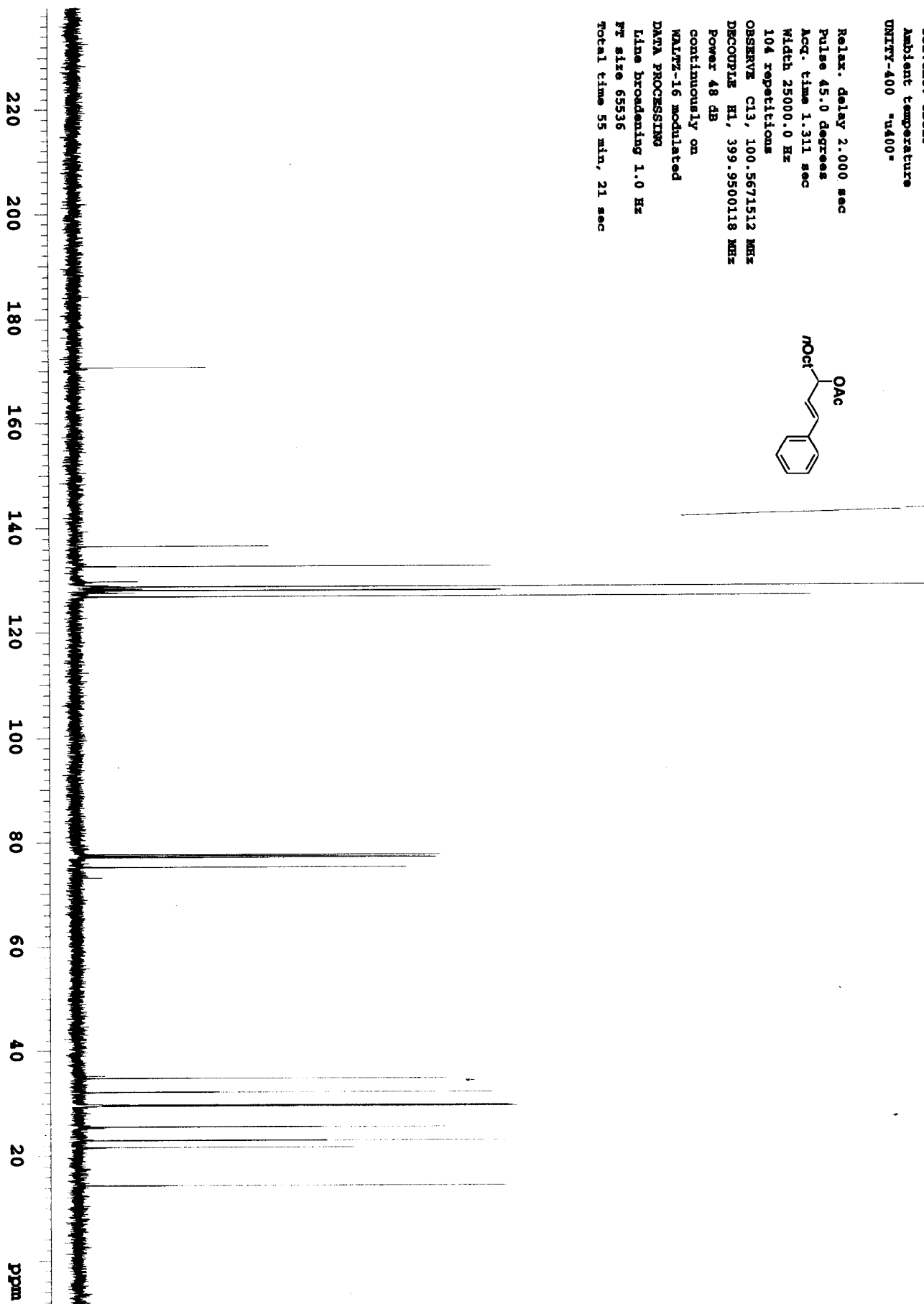
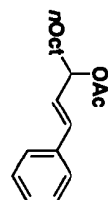
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

FT size 65536

Total time 55 min, 21 sec

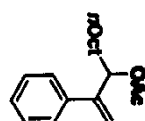


Pulse Sequence: zgpg1

Solvent: CDCl₃

Ambient Temperature

UNREF-400 "v4.00"



Pulse 45.0 degrees

Acq. time 4.096 sec

Width 3000.0 Hz

12 repetitions

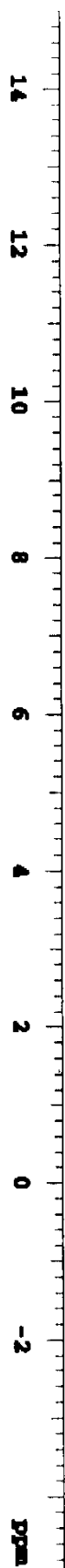
OBSERVE M, 399.3486787 MHz

DATA PROCESSING

Line broadening 0.3 Hz

FT size 65536

Total time 6 min, 50 sec



Pulse Sequence: zgpg1

Solvent: CDCl₃

Ambient temperature

User: J-14-87

UNIT-500 "VARI-500"

Pulse delay 2.000 sec

Pulse 55.4 degrees

Acq. time 1.024 sec

Width 3200.0 Hz

56 repetitions

OBSERVE C13, 125.583227 MHz

INCOUPLE H1, 499.437575 MHz

Power 44 dB

continuously on

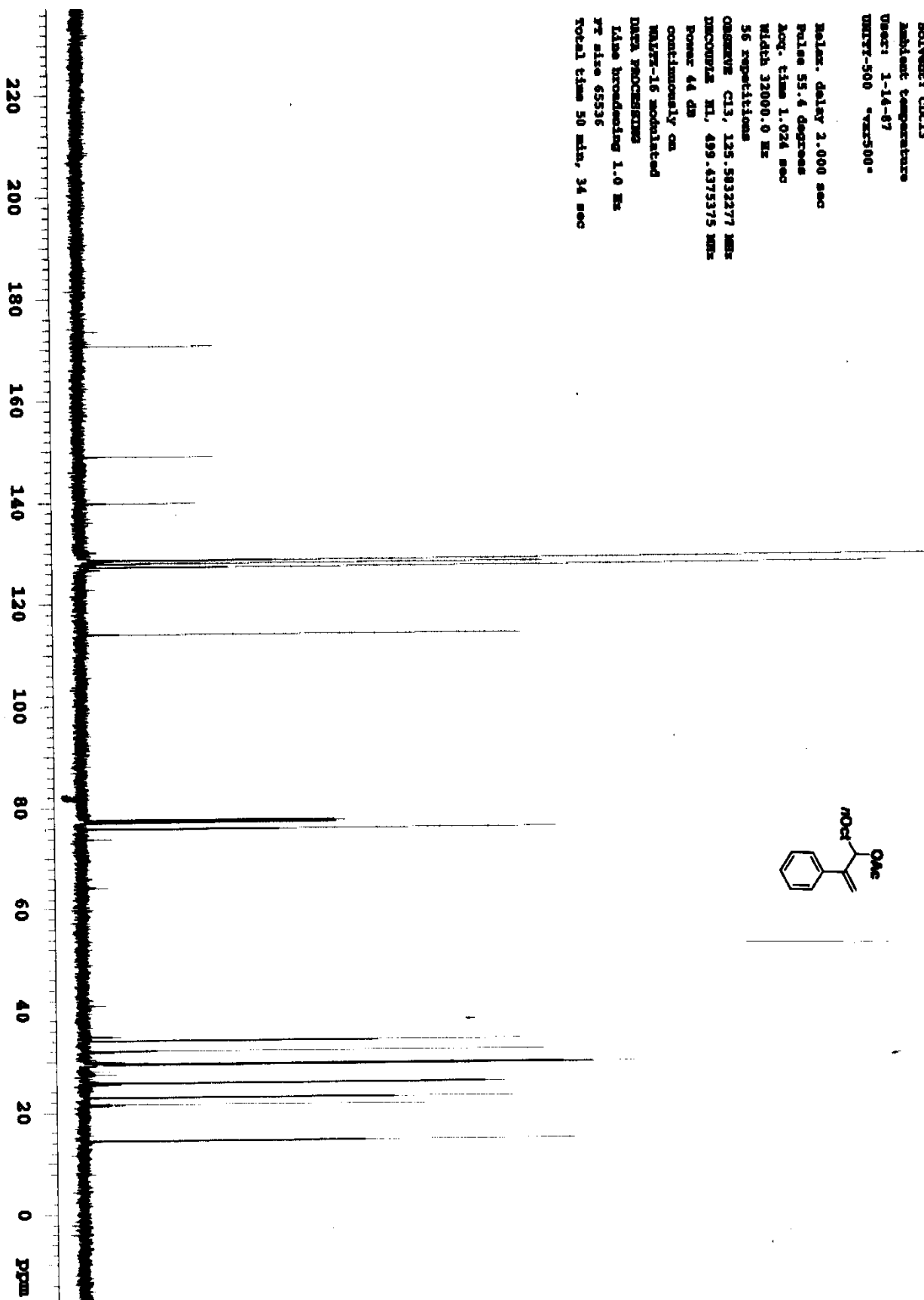
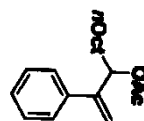
NMR-16 modulated

DATA PROCESSING

F2 line broadening 1.0 Hz

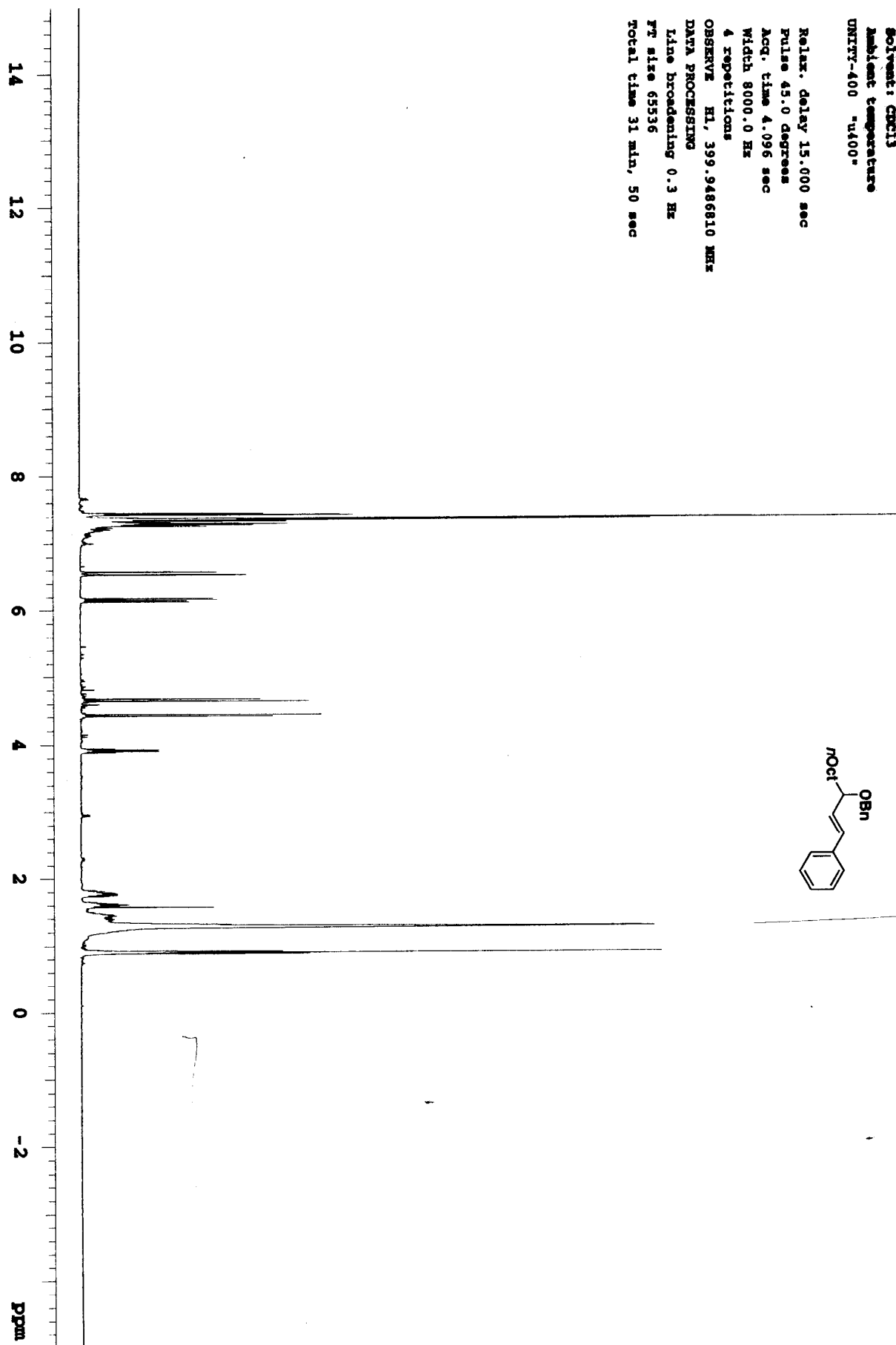
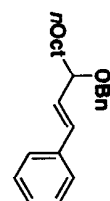
F2 size 65536

Total time 50 min, 34 sec



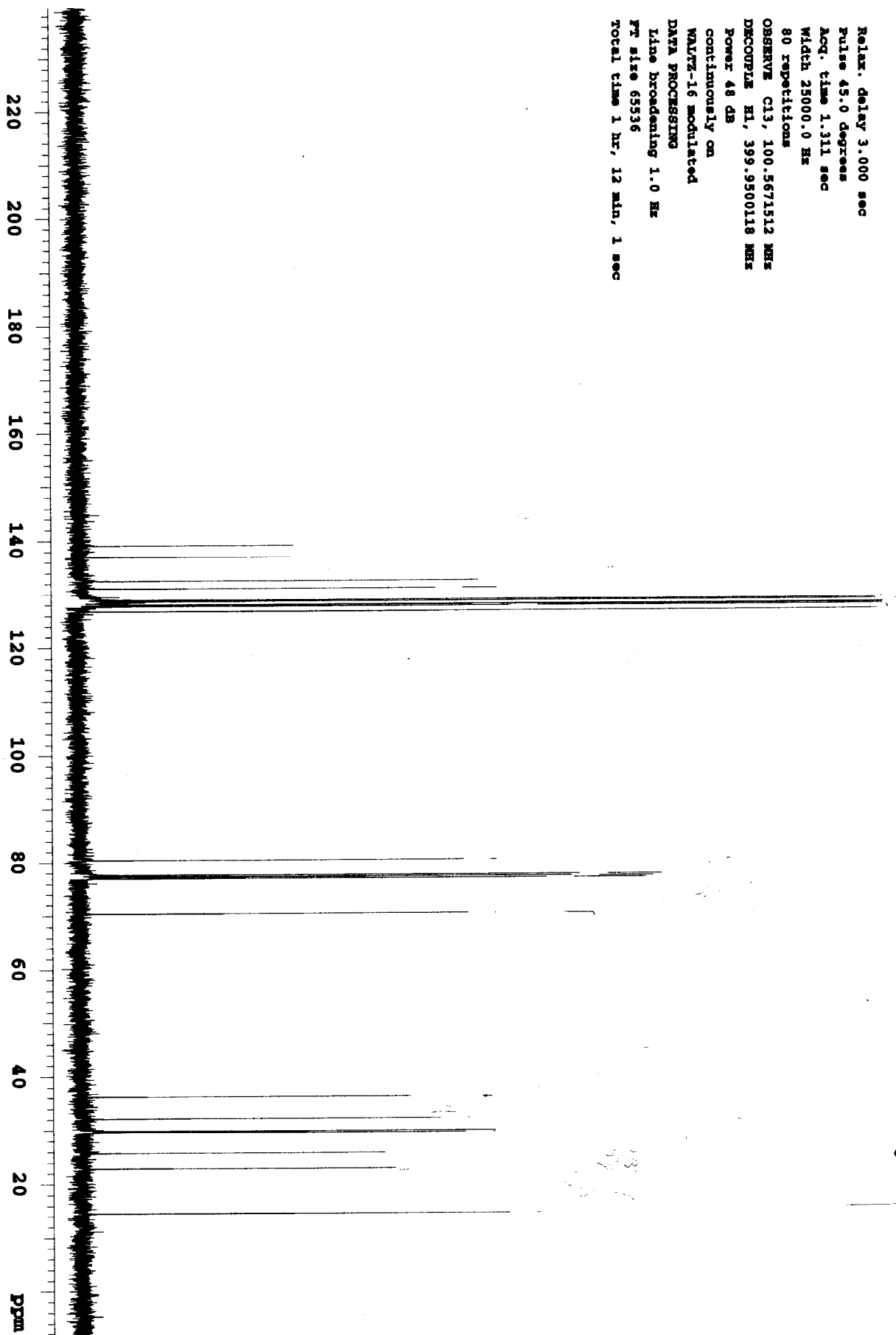
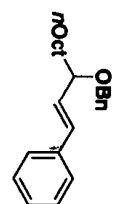
Pulse sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNITS-400 "u400"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
4 repetitions
OBSERVE H1, 399.9486810 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



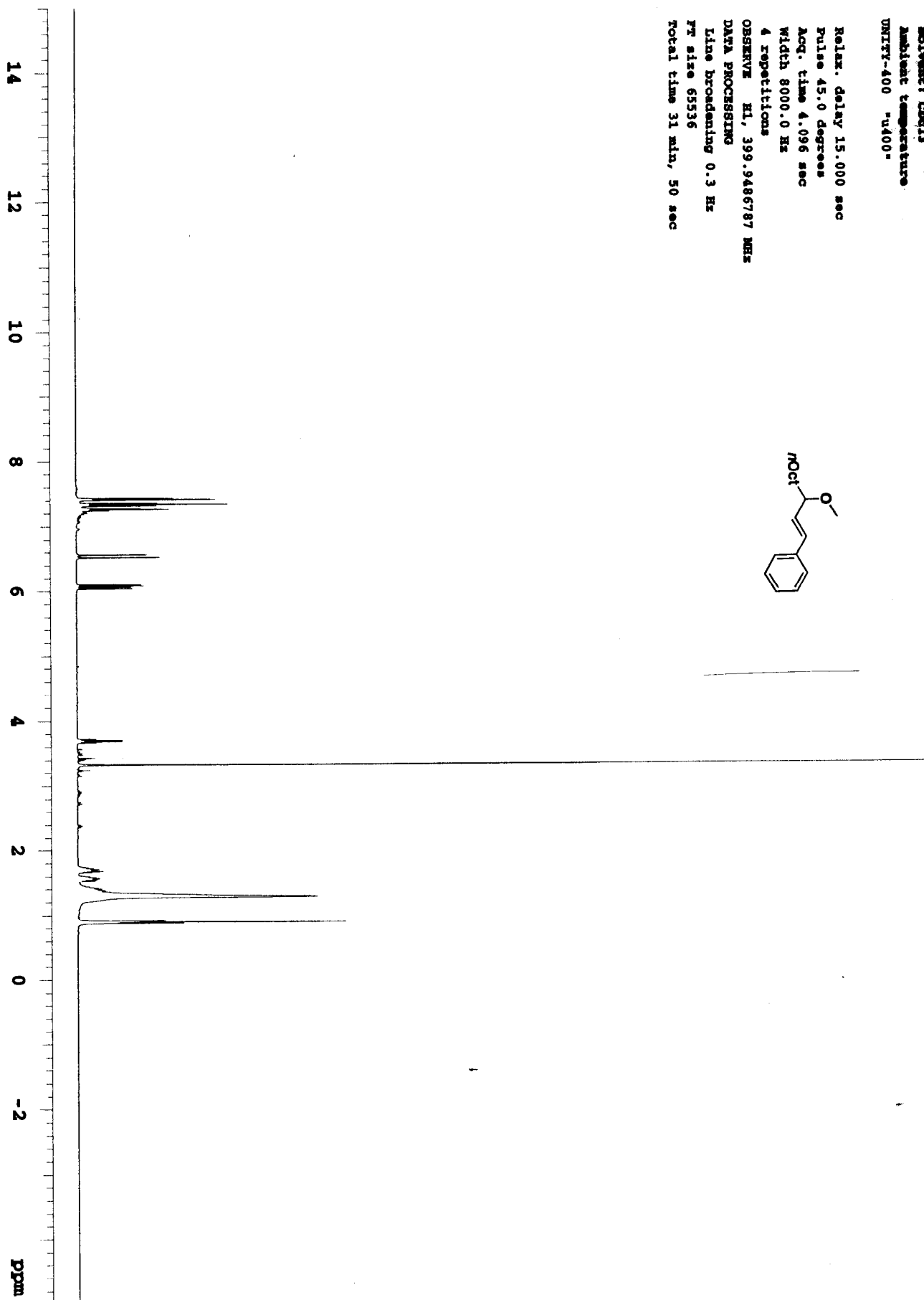
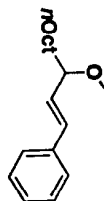
Pulse sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNITY-400 "u400"

Relax. delay 3.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
80 repetitions
OBSERVE C13, 100.5671512 MHz
DECOUPLE H1, 399.9500118 MHz
Power 48 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536
Total time 1 hr, 12 min, 1 sec



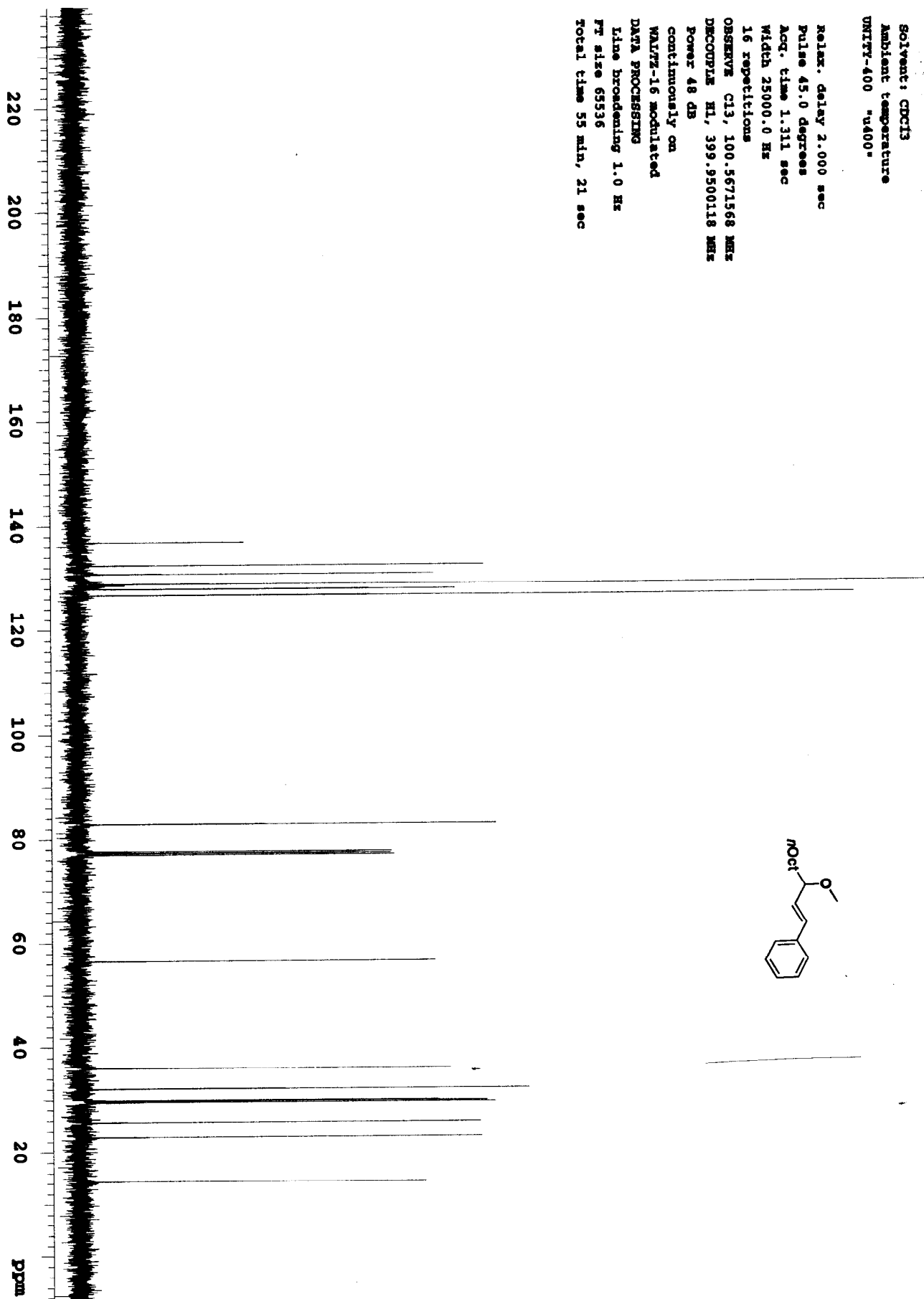
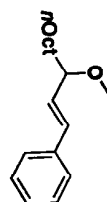
Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNIT-400 "400"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
4 repetitions
OBSERVE H1, 399.948787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



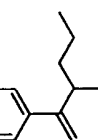
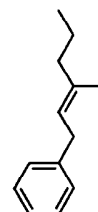
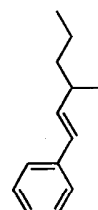
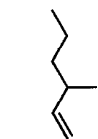
Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNIT-400 "u400"

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
16 repetitions
OBSERVE C13, 100.5671568 MHz
DECOUPLE H1, 399.9500118 MHz
Power 48 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536
Total time 55 min, 21 sec



Pulse Sequence: zgpg1
Solvent: CDCl₃
Ambient temperature
UNIT-400 "400"

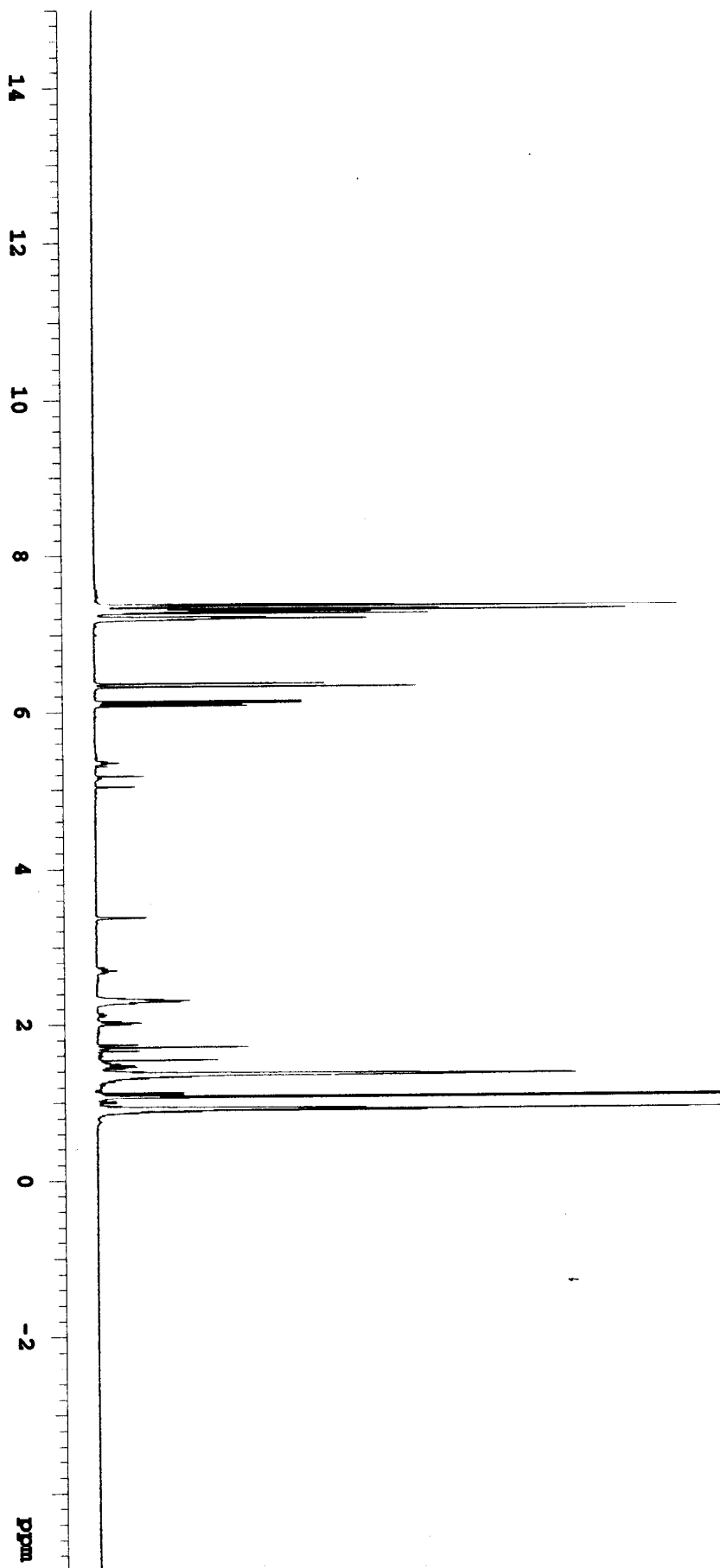
Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
6 repetitions
OBSERVE H1, 399.9486787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



Internal Olefin

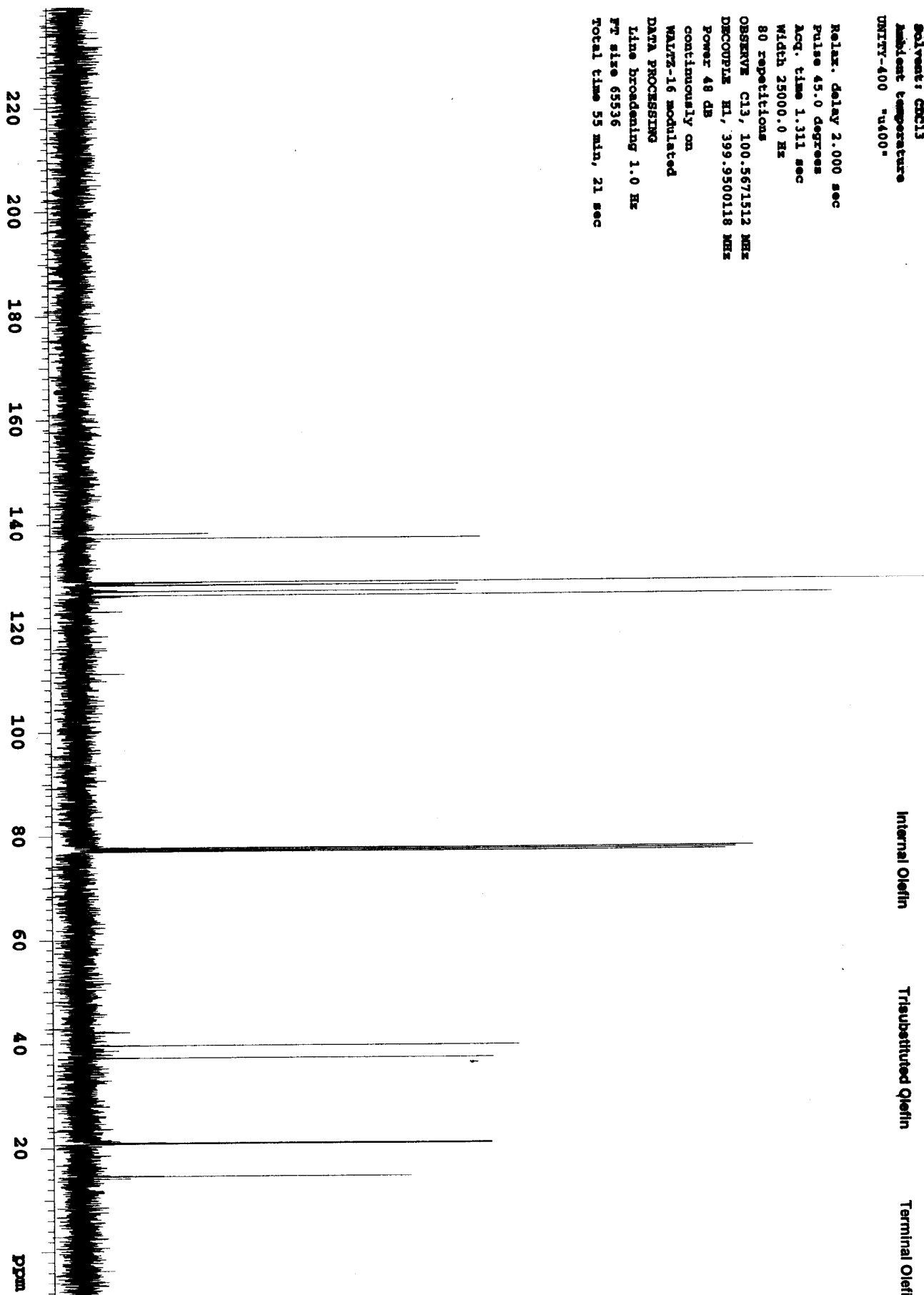
Trisubstituted Olefin

Terminal Olefin



Pulse Sequence: zgpg1
 Solvent: CDCl₃
 Ambient temperature
 UNIT-400 "u400"

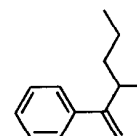
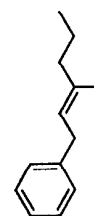
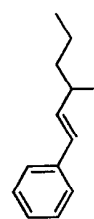
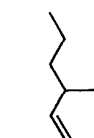
Relax. delay 2.000 sec
 Pulse 45.0 degrees
 Acq. time 1.311 sec
 Width 25000.0 Hz
 80 repetitions
 OBSERVE C13, 100.5671512 MHz
 DECOUPLE H1, 399.9500118 MHz
 Power 48 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 1.0 Hz
 FT size 65536
 Total time 55 min, 21 sec



Internal Olefin

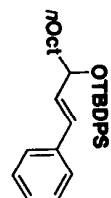
Trisubstituted Olefin

Terminal Olefin



Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNIT-400 "u400"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
12 repetitions
OBSERVE H1, 399.9486787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



Pulse sequence: zgpg1

Solvent: CDCl₃

Ambient temperature

UNITY-400 "400"

Relax. delay 2.000 sec

Pulse 45.0 degrees

Acq. time 1.311 sec

Width 25000.0 Hz

184 repetitions

OBSERVE C13, 100.5671545 MHz

DECOUPLE H1, 399.9500118 MHz

Power 48 dB

continuously on

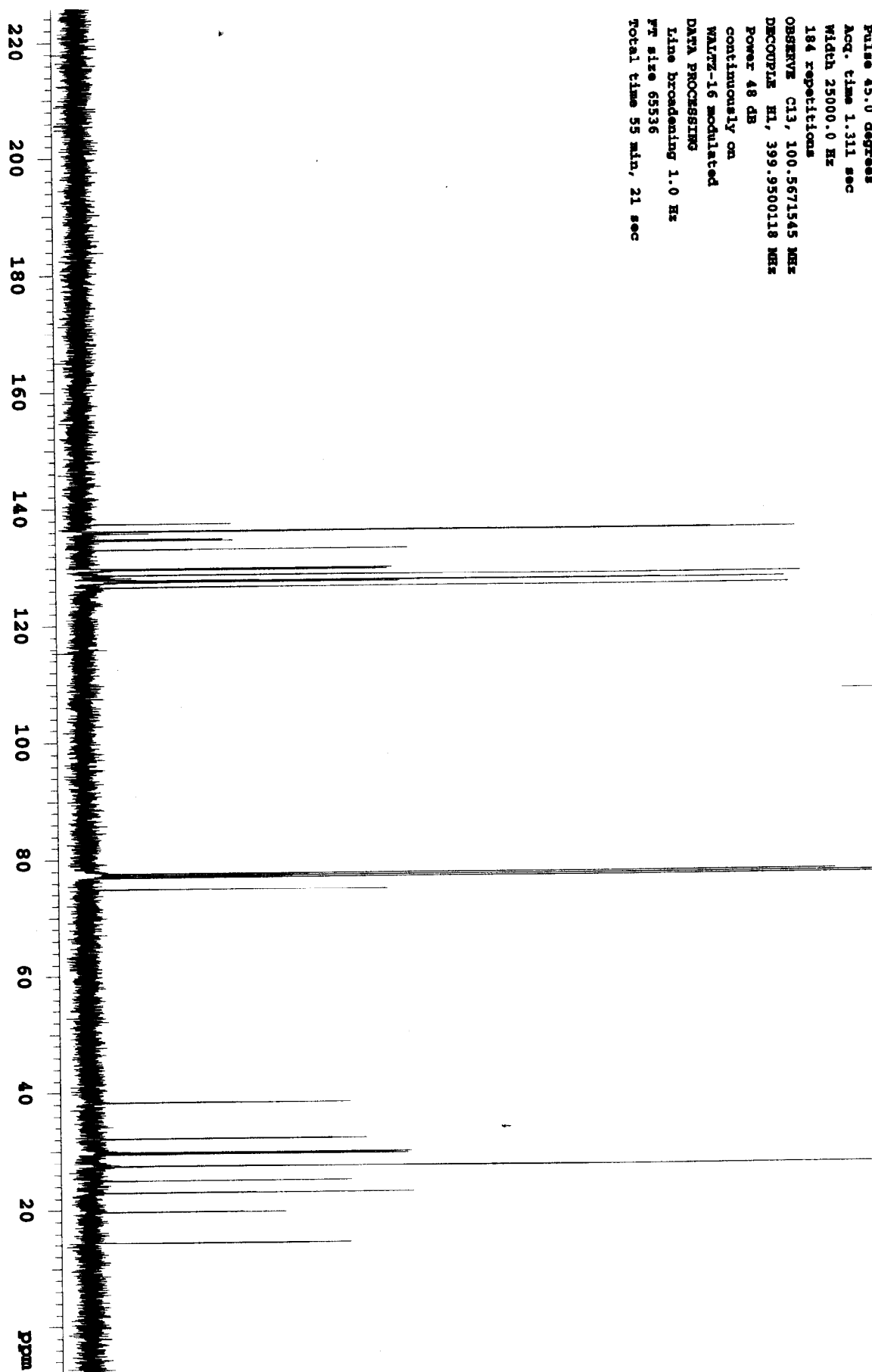
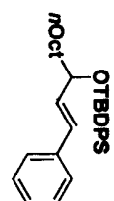
WALTZ-16 modulated

DATA PROCESSING

Line broadening 1.0 Hz

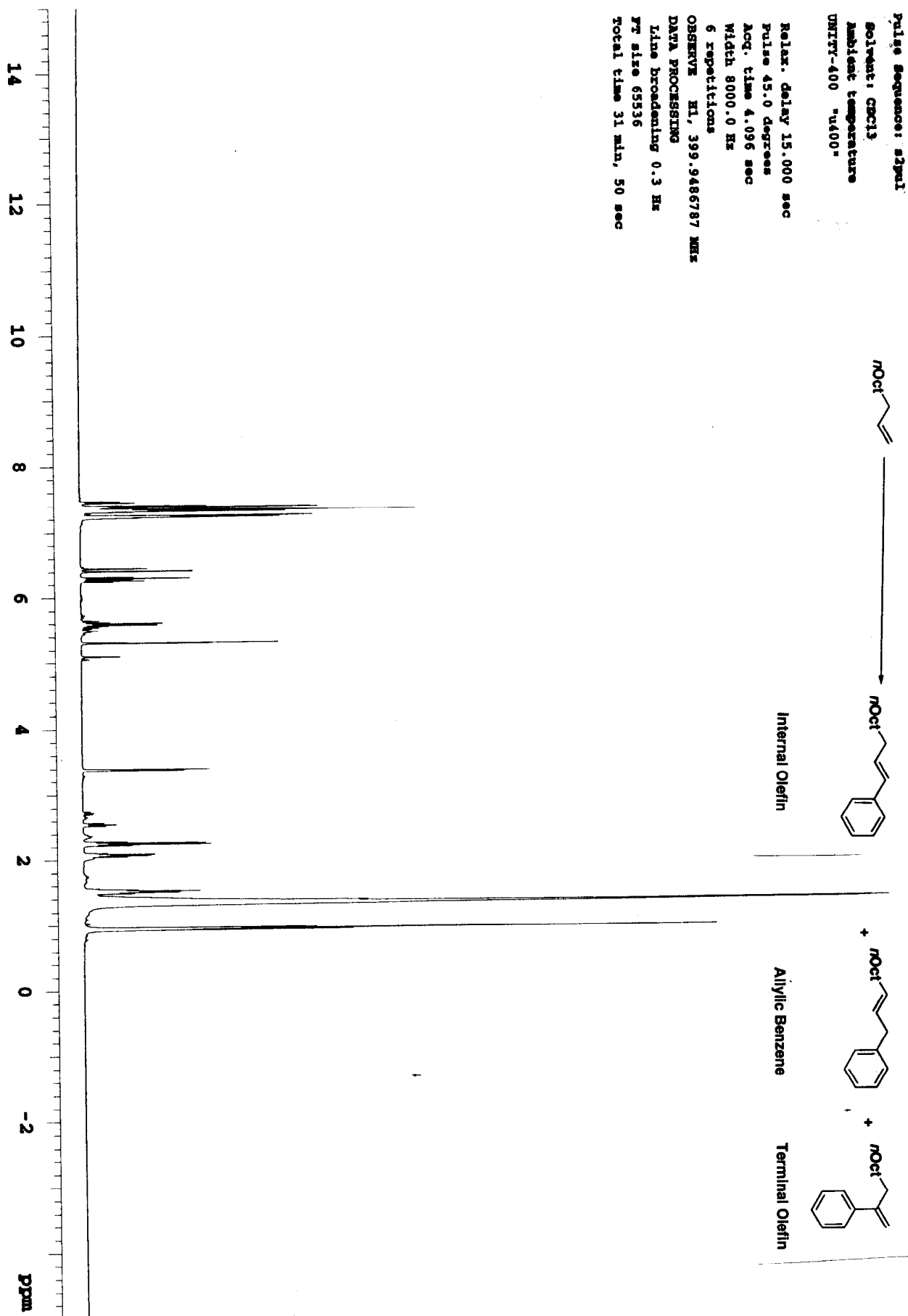
FT size 65536

Total time 55 min, 21 sec



Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNIT-400 "u400"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz
6 repetitions
OBSERVE H1, 399.9486787 MHz
DATA PROCESSING
Line broadening 0.3 Hz
FT size 65536
Total time 31 min, 50 sec



Pulse Sequence: zgpg30
Solvent: CDCl₃
Ambient temperature
UNIT-400 "u400"

Relax. delay 15.000 sec
Pulse 45.0 degrees
Acq. time 4.096 sec
Width 8000.0 Hz

4 repetitions

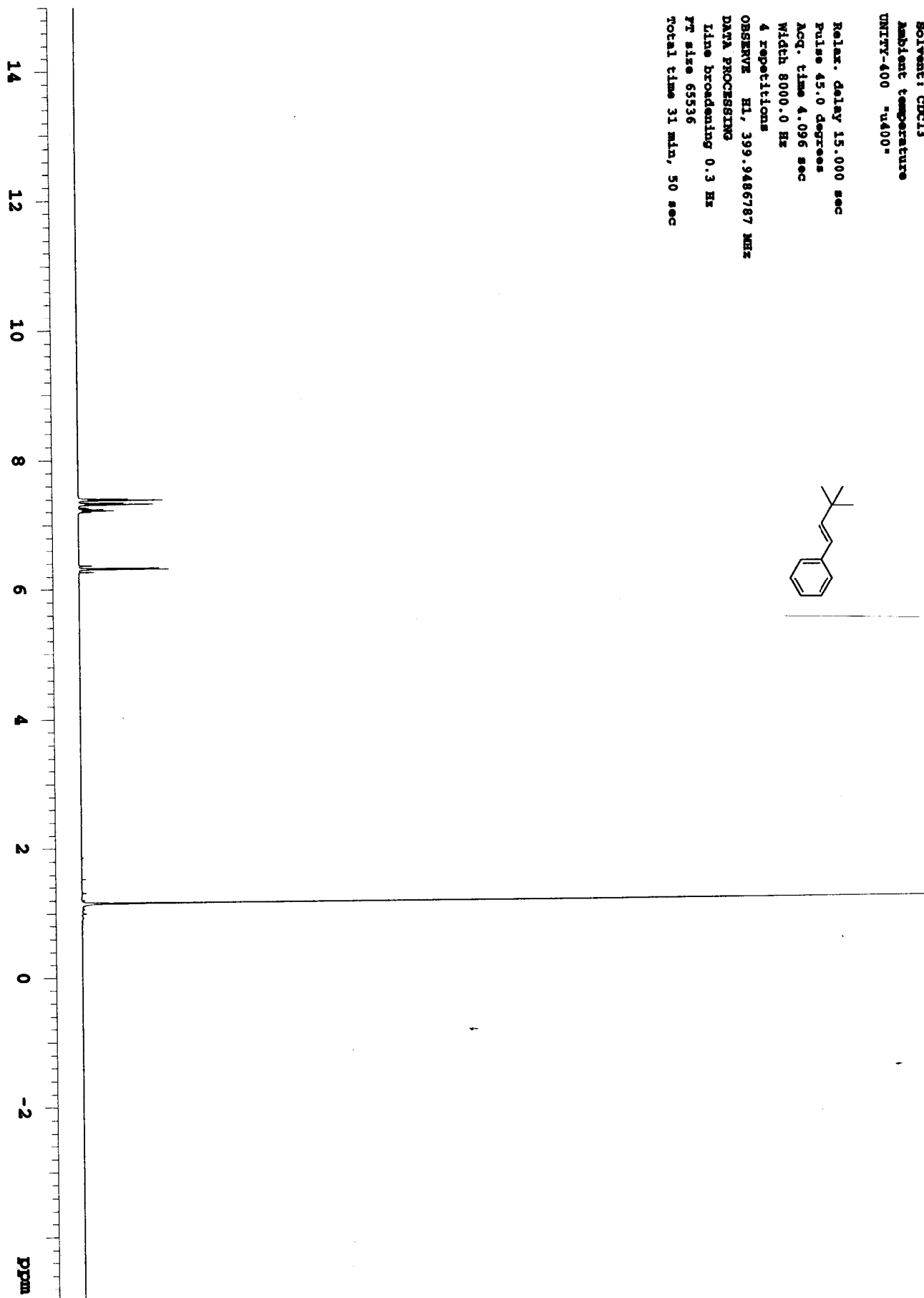
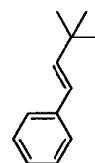
OBSERVE H1, 399.948787 MHz

DATA PROCESSING

Line broadening 0.3 Hz

FT size 65536

Total time 31 min, 50 sec



Pulse Sequence: zgpg1
Solvent: CDCl₃
Ambient temperature
UNITY-400 "u400"

Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 1.311 sec
Width 25000.0 Hz
40 repetitions
OBSERVE C13, 100.5671568 MHz
DECOUPLE H1, 399.9500118 MHz
Power 48 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536
Total time 55 min, 21 sec

