

Appendix 1

Spectra Relevant to Chapter 2:

Total Syntheses of Ent-Kauranoids

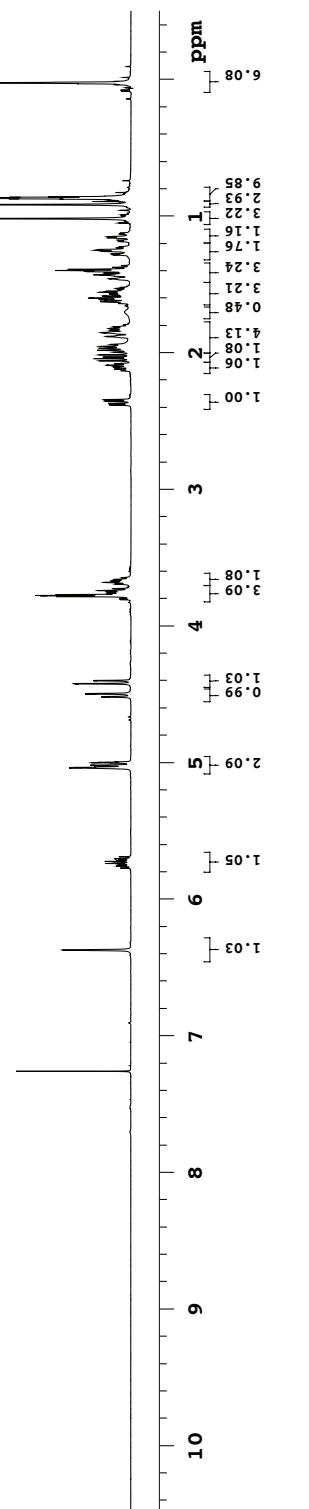
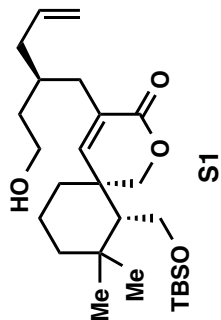
(–)-Trichorabdal A and (–)-Longikaurin E

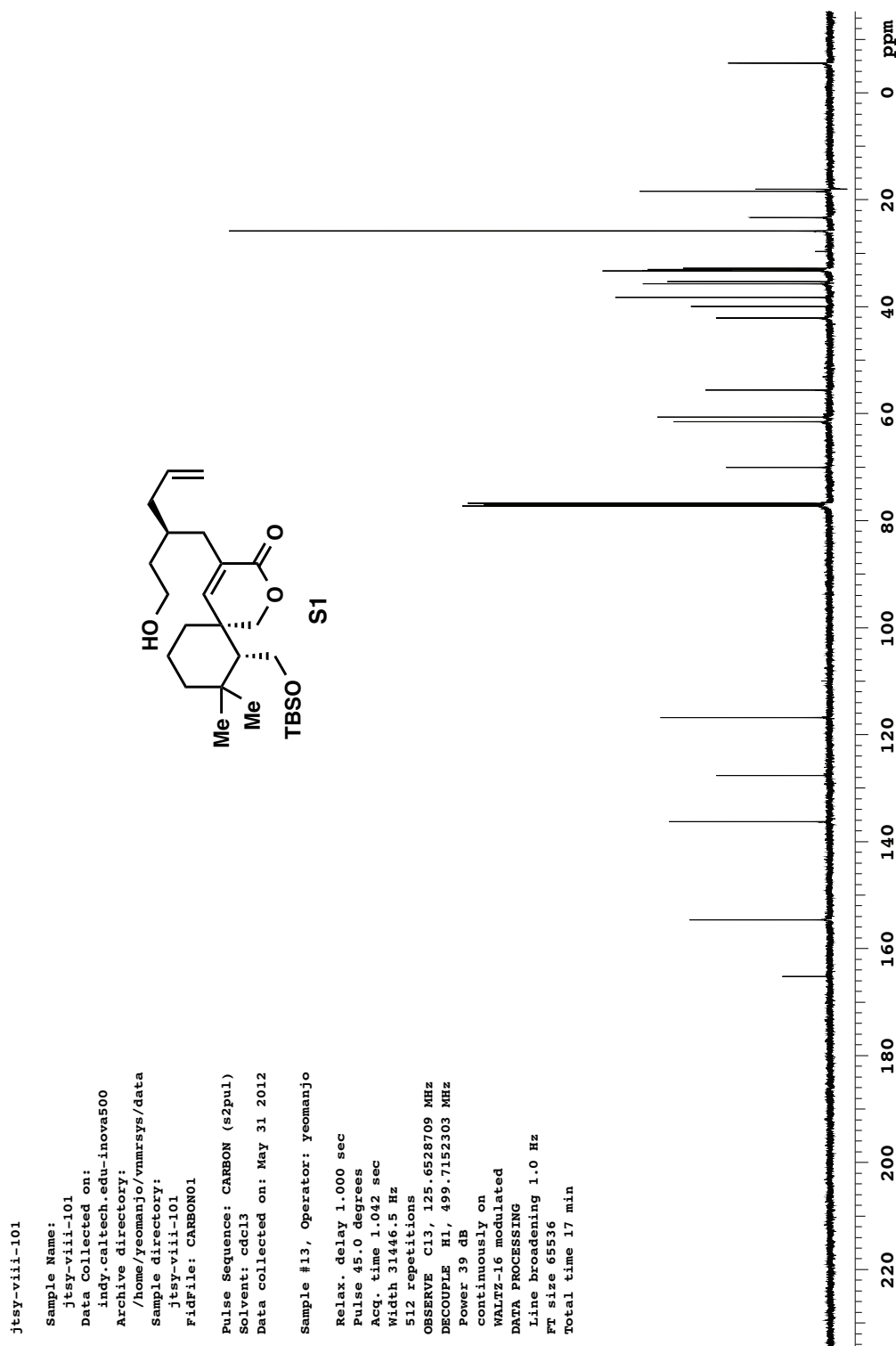
jtsy-viii-101

Sample Name:
jtsy-viii-101
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/yeomanjo/vnmrsys/data
Sample directory:
jtsy-viii-101
Fidfile: PROTON01

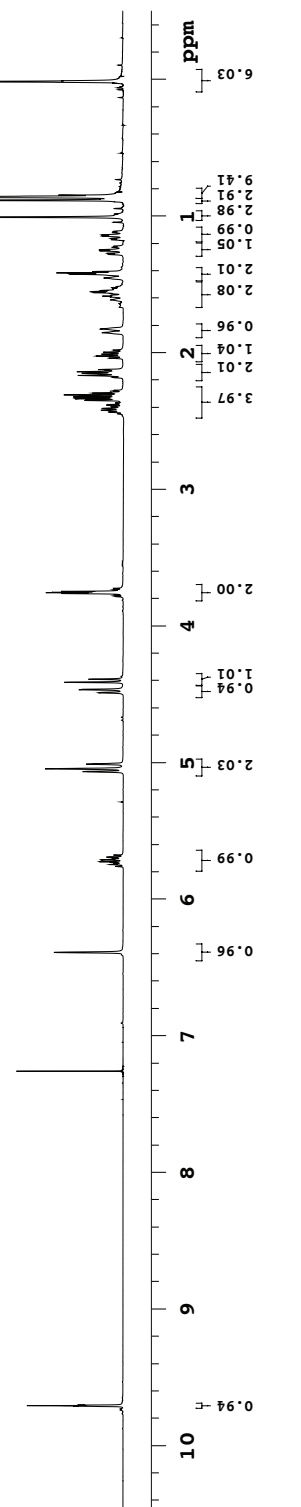
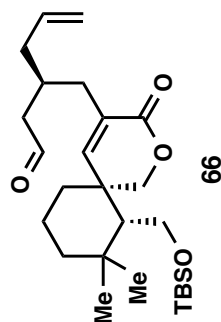
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: May 31 2012

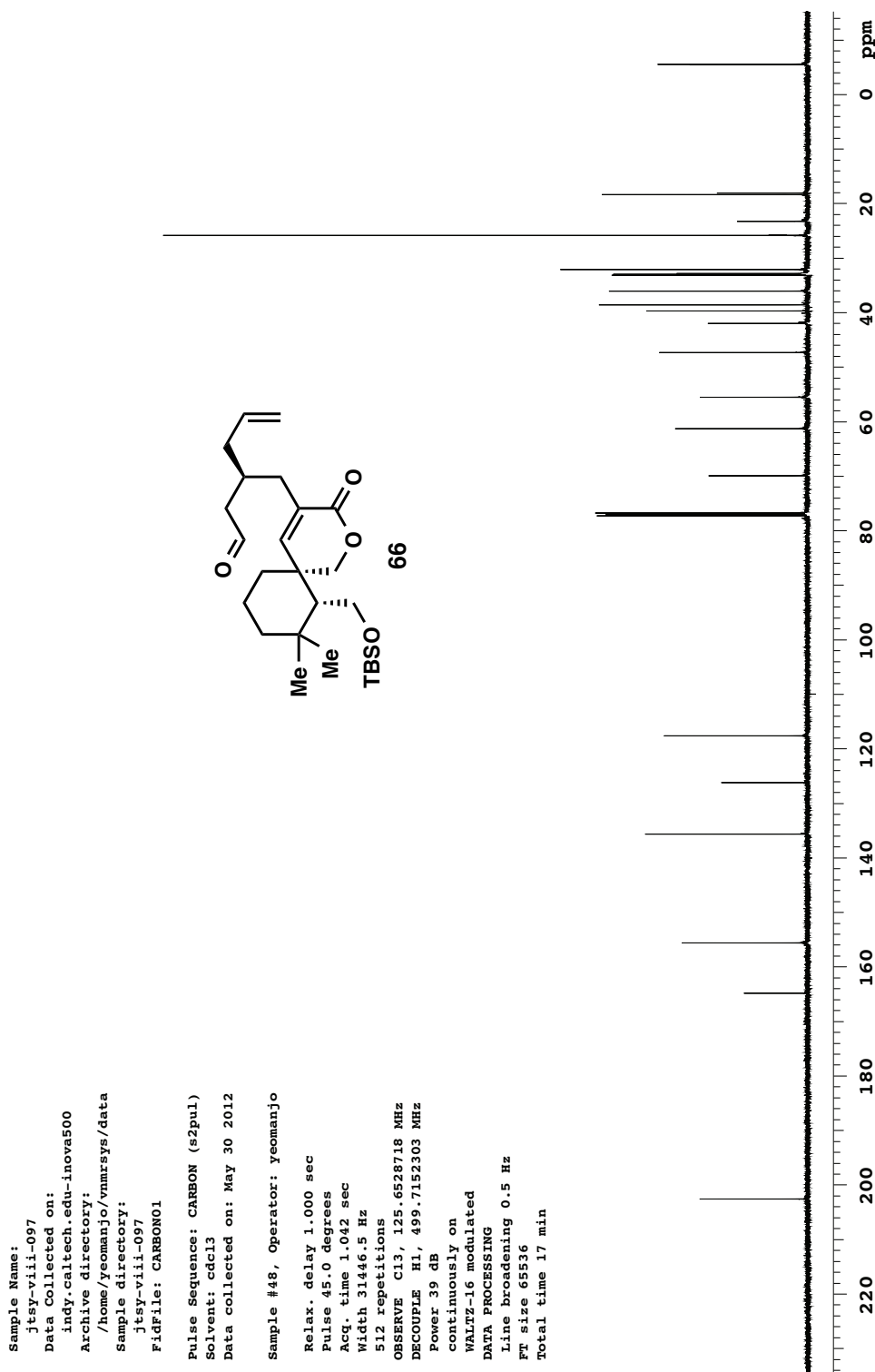
Sample #13, Operator: yeomanjo
Relax. delay 10.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7127407 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 40 sec

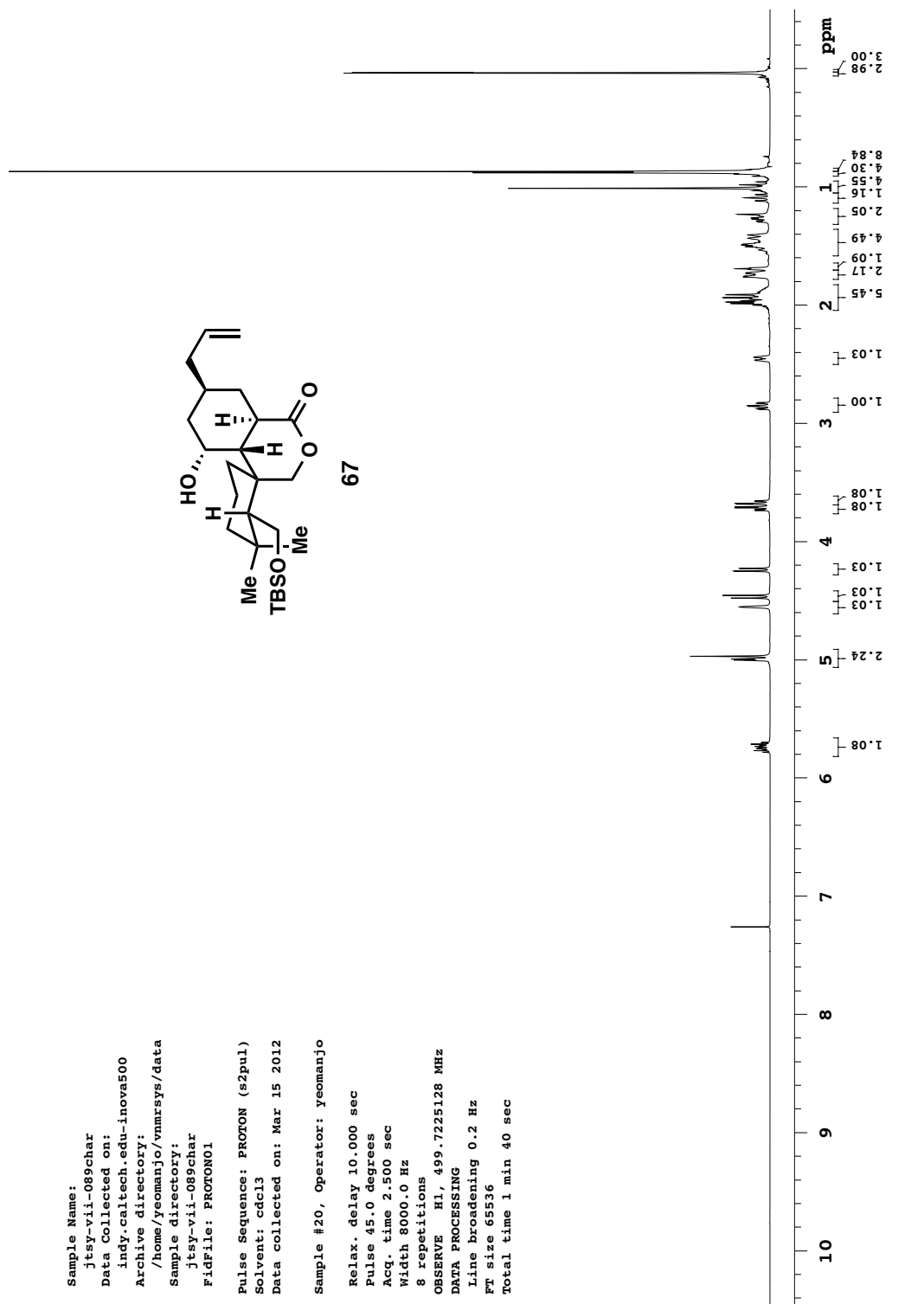


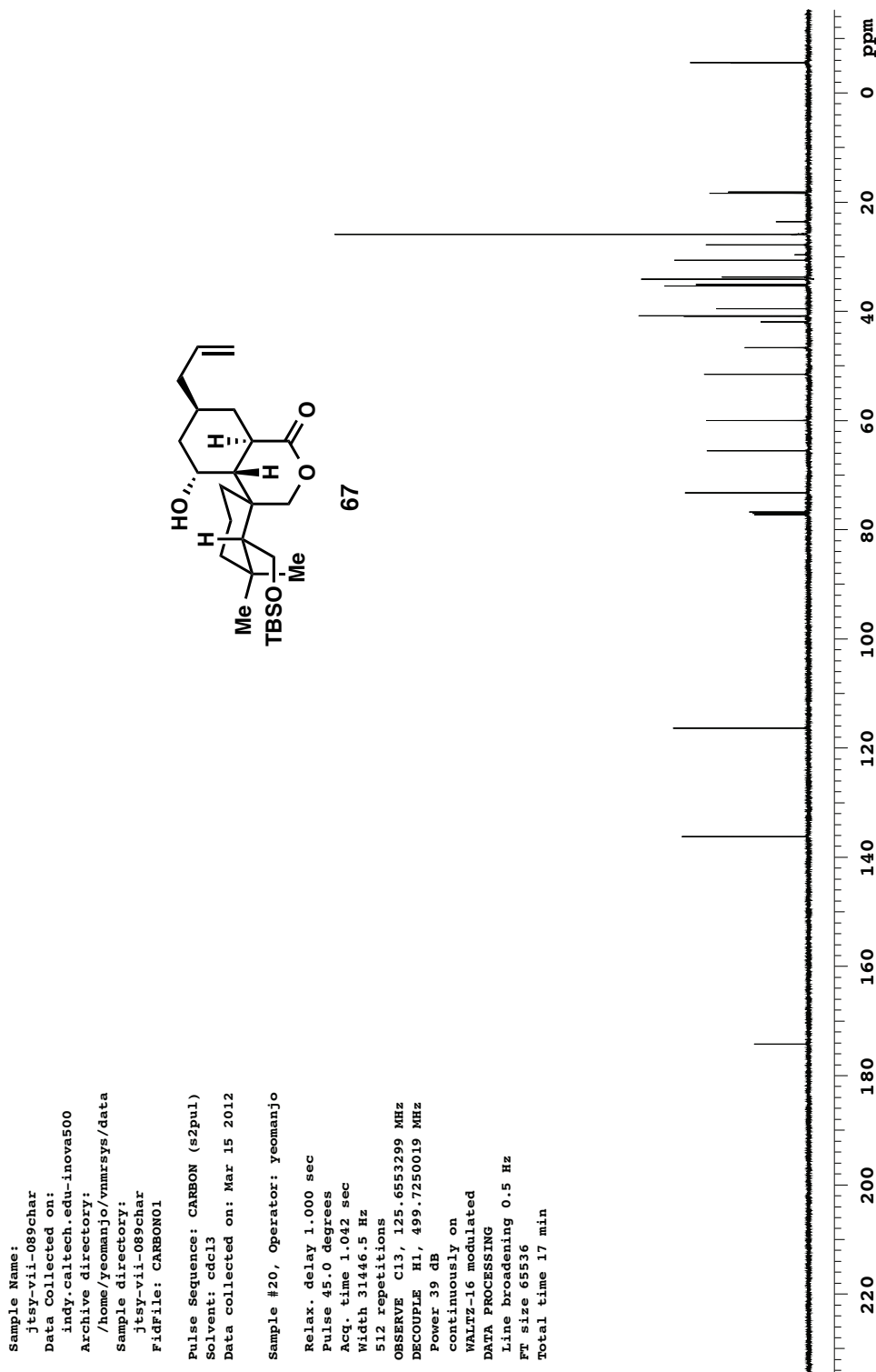


Sample Name: jtsy-viii-097
 Data Collected on: indy.caltech.edu-inova500
 Archive directory: /home/yeomanjo/vnmrsys/data
 Sample directory: jtsy-viii-097
 Fidfile: PROTON01
 Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: May 30 2012
 Sample #48, Operator: yeomanjo
 Relax. delay 10.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 8 repetitions
 OBSERVE H1, 499.7127410 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 1 min 40 sec







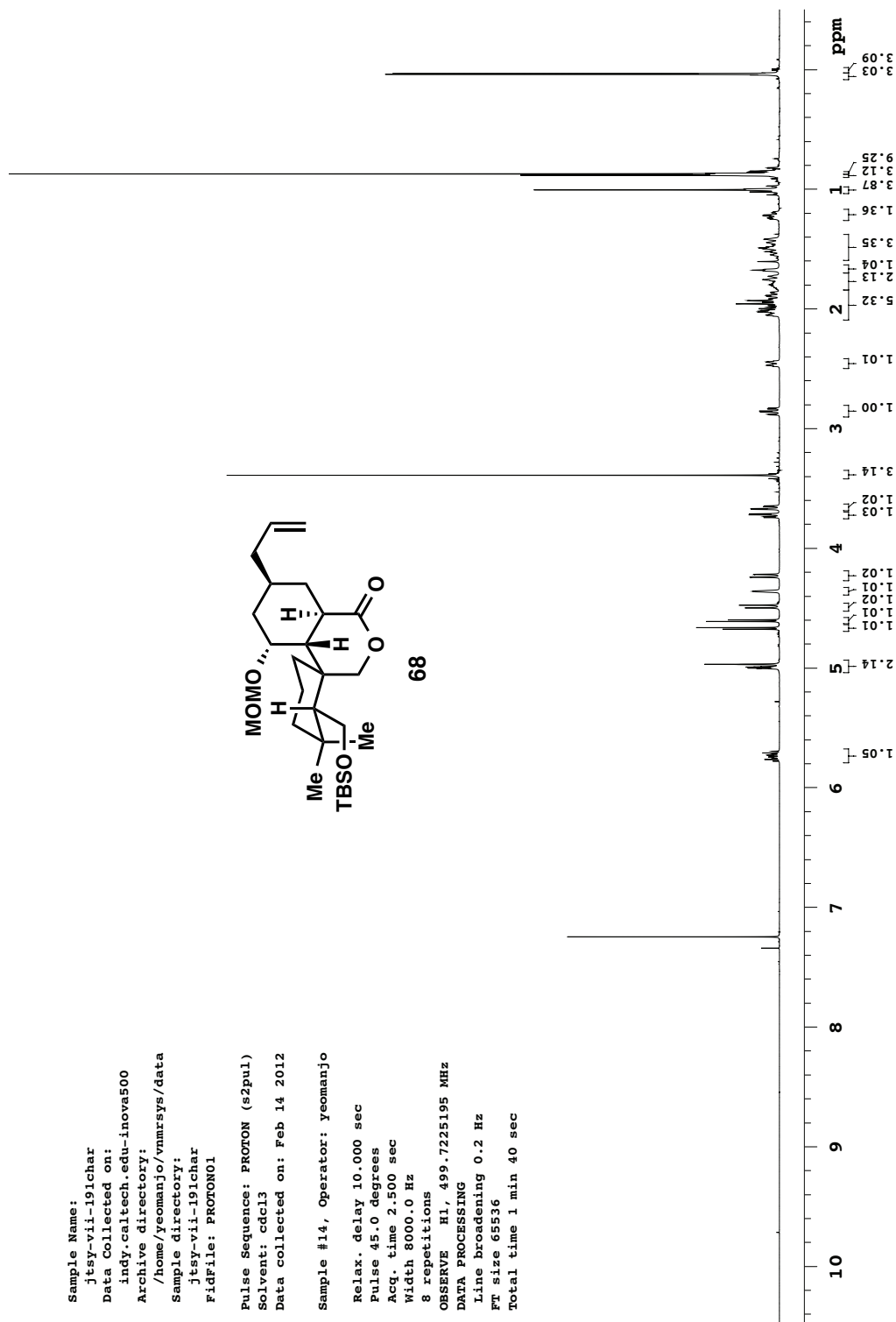
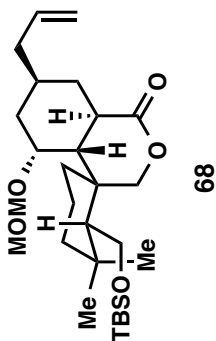


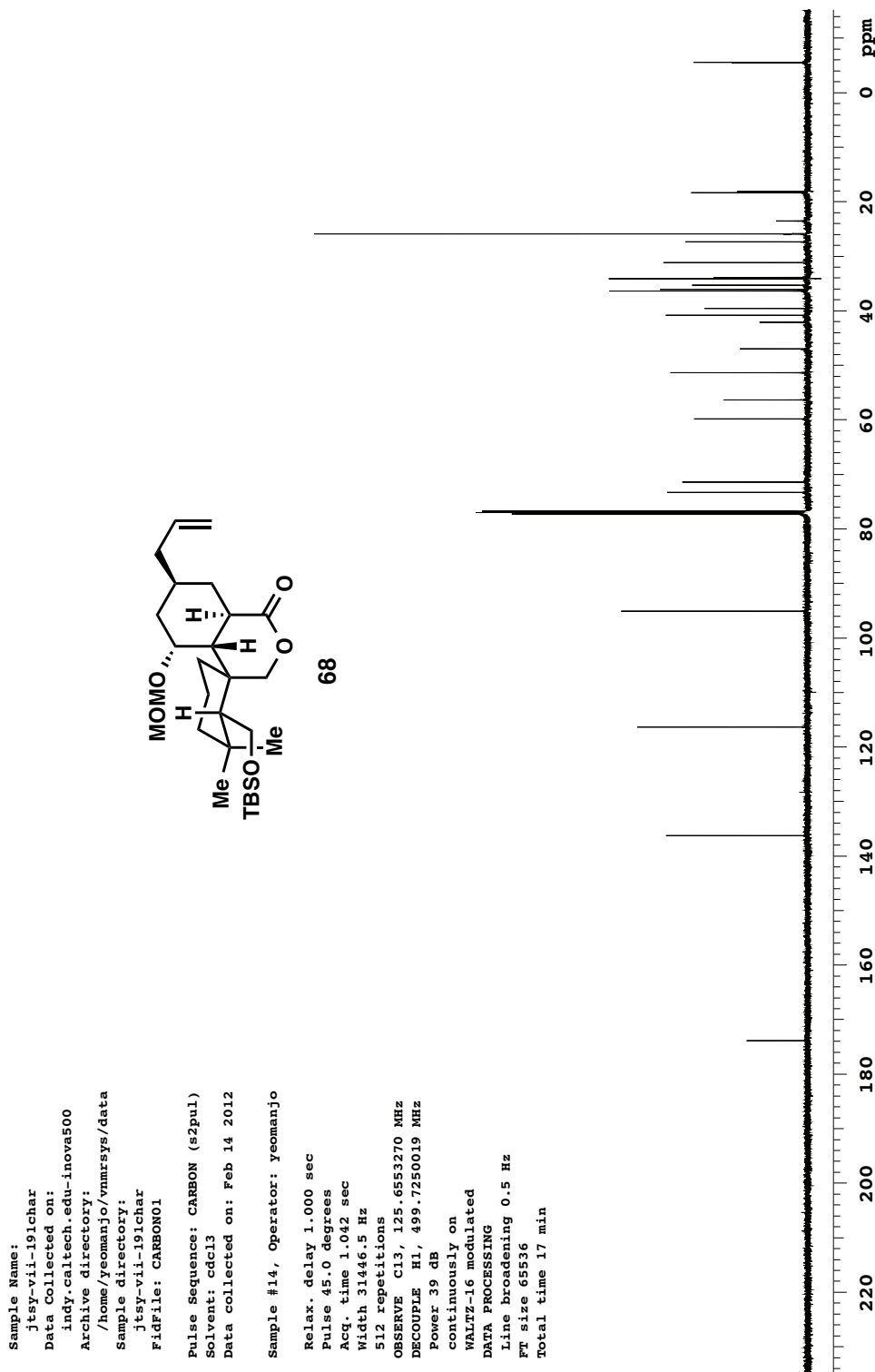
Sample Name:
jtsy-vii-191char
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/yeomanjo/vnmrsys/data
Sample directory:
jtsy-vii-191char
Fidfile: PROTON01

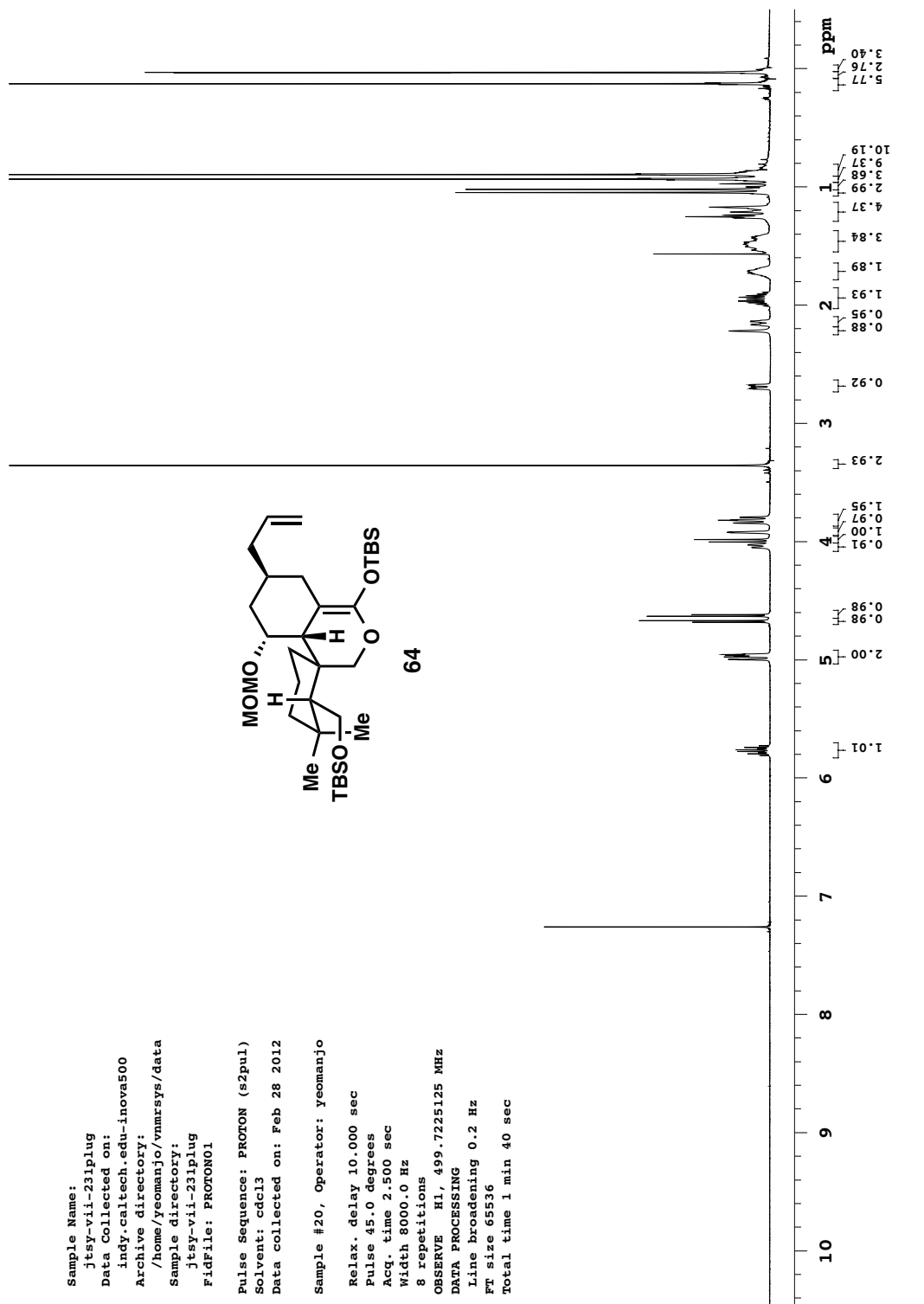
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 14 2012

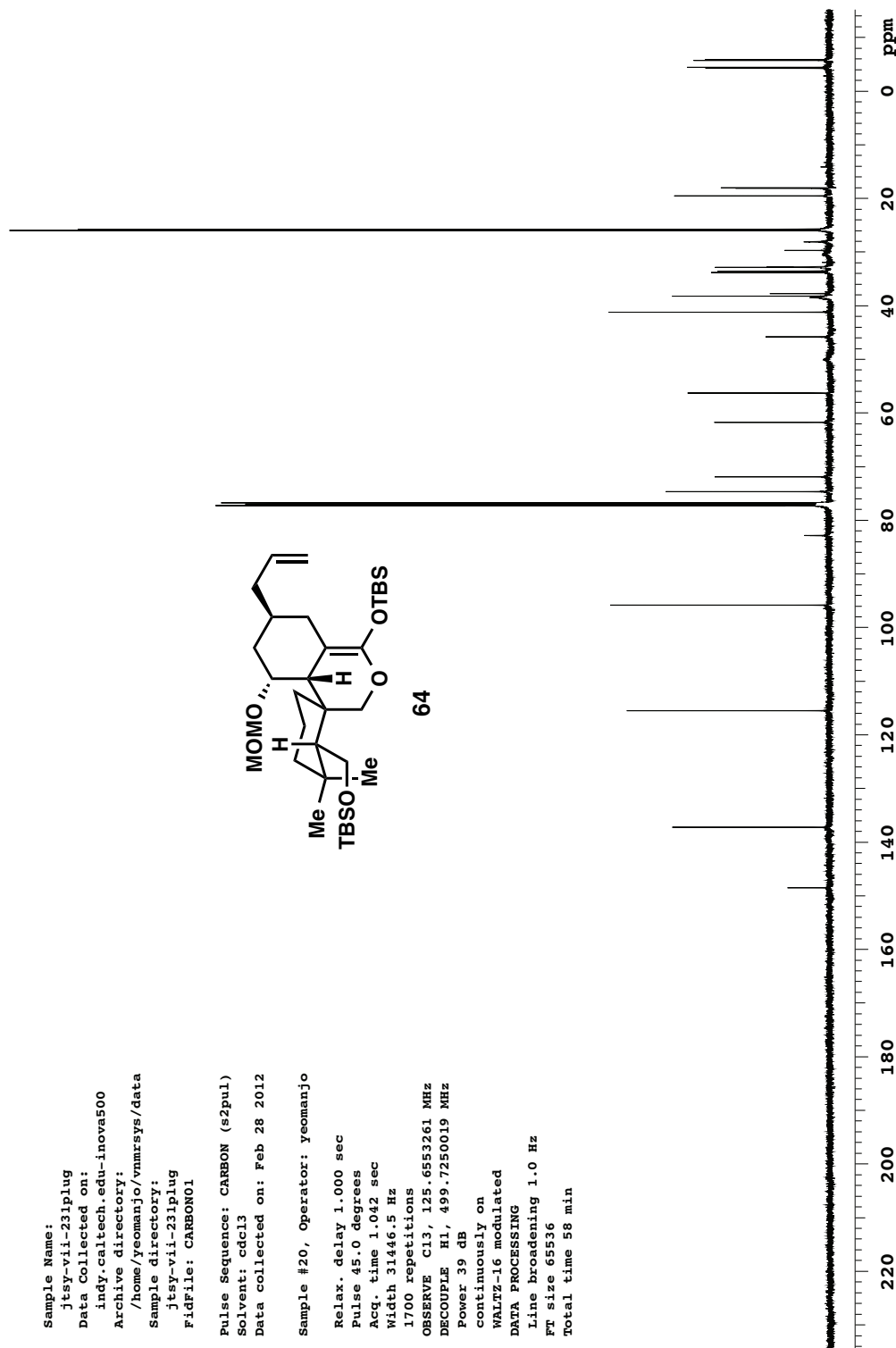
Sample #14, Operator: yeomanjo
Relax. delay 10.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
8 repetitions

OBSERVE H1, 499.7225195 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 65536
Total time 1 min 40 sec

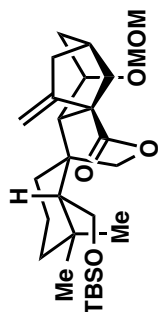




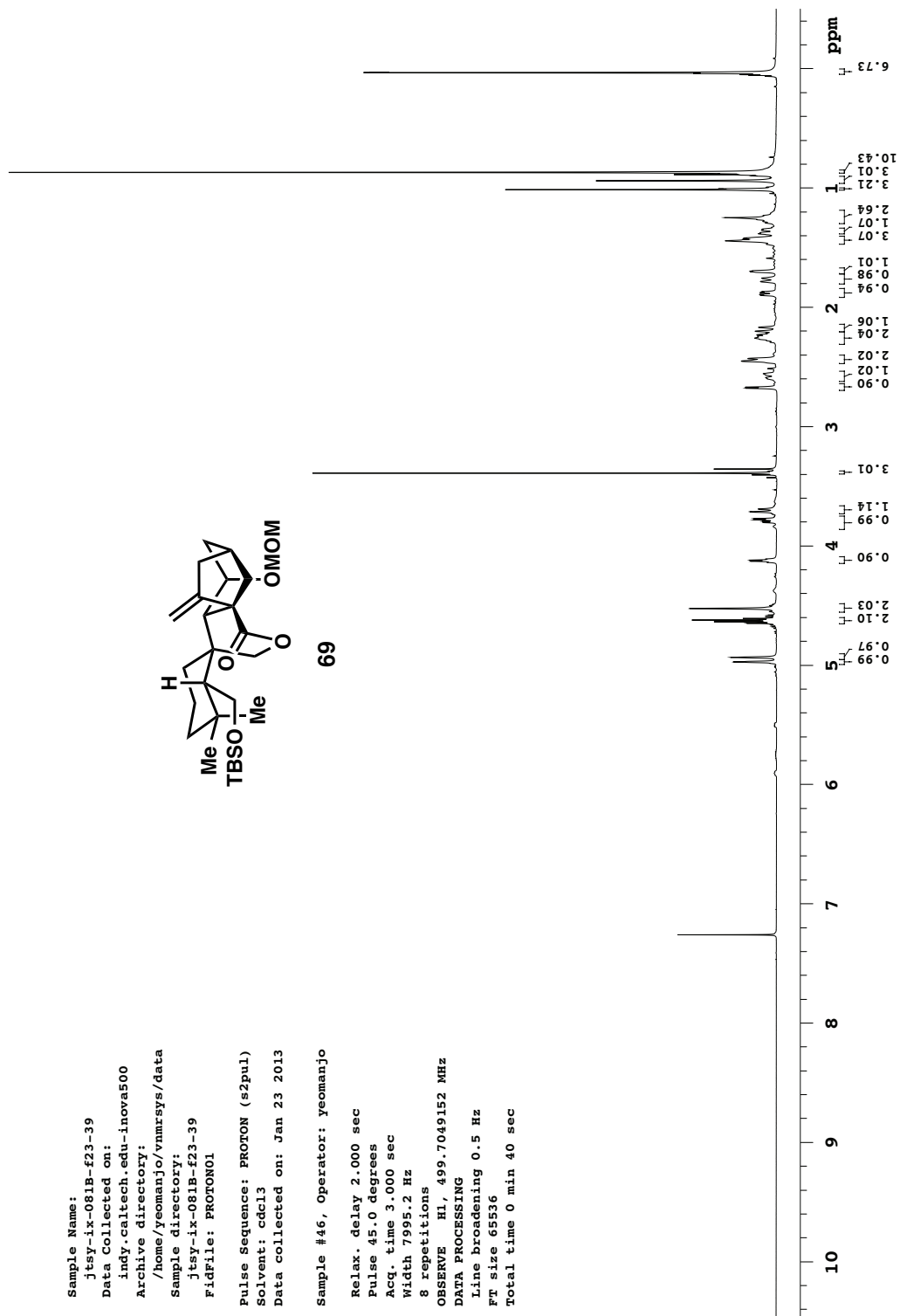


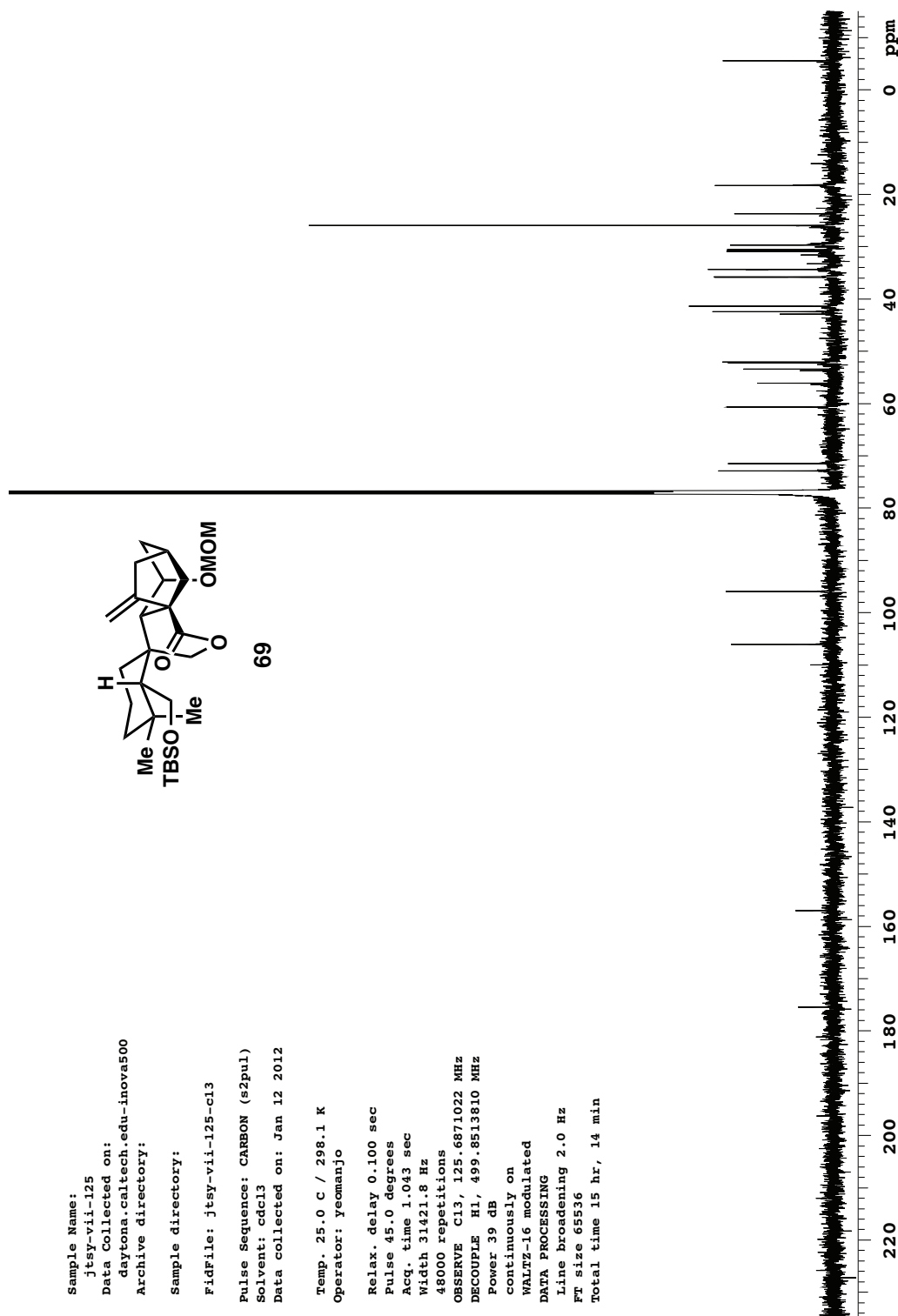


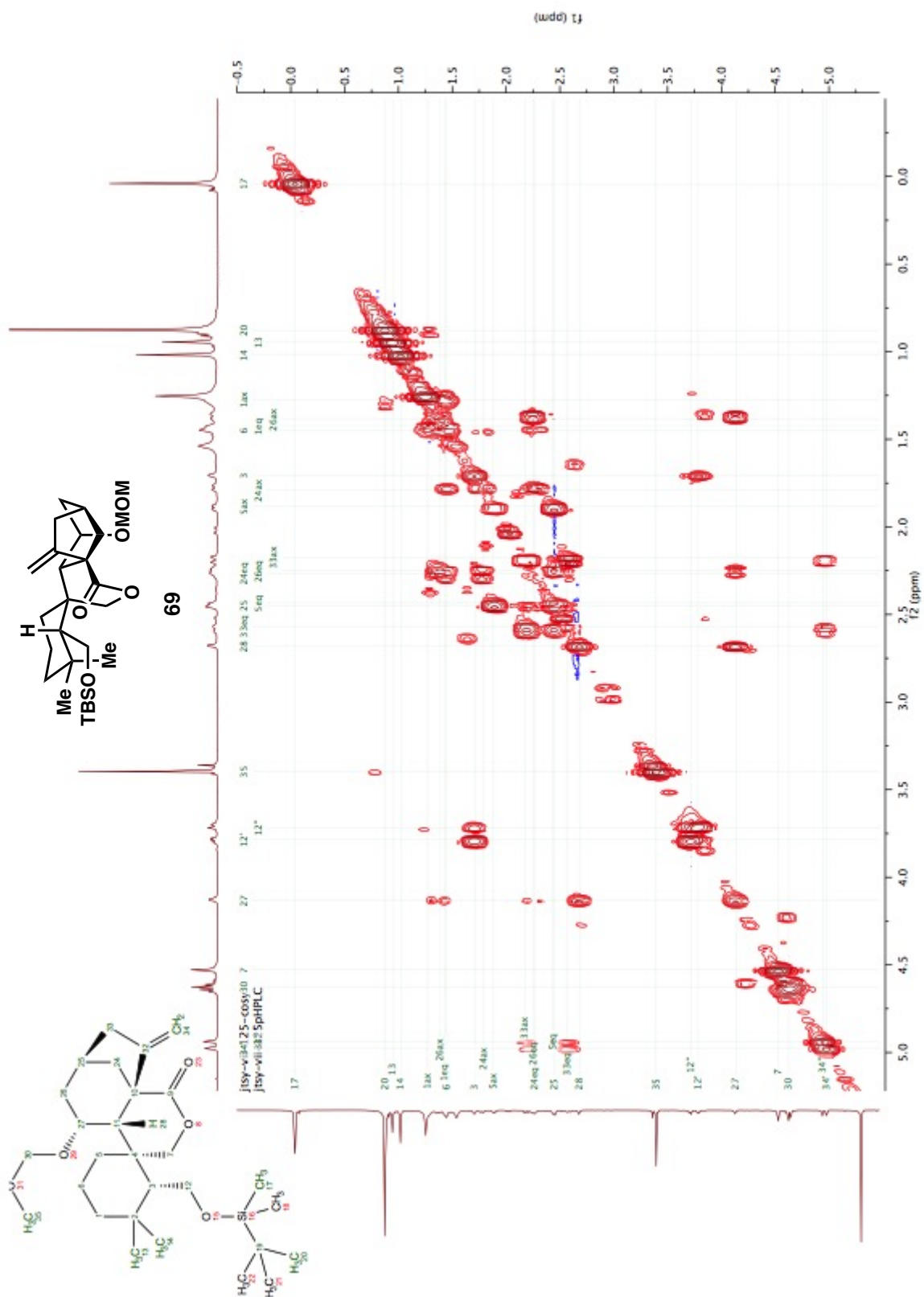
Sample Name:
 jtsy-ix-081B-f23-39
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/yeomanjo/vnmrsvs/data
 Sample directory:
 jtsy-ix-081B-f23-39
 Fidfile: PROTON01
 Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jan 23 2013
 Sample #46, Operator: yeomanjo
 Relax. delay 2.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 7995.2 Hz
 8 repetitions
 OBSERVE H1, 499.7049152 MHz
 DATA PROCESSING
 Line broadening 0.5 Hz
 FT size 65536
 Total time 0 min 40 sec

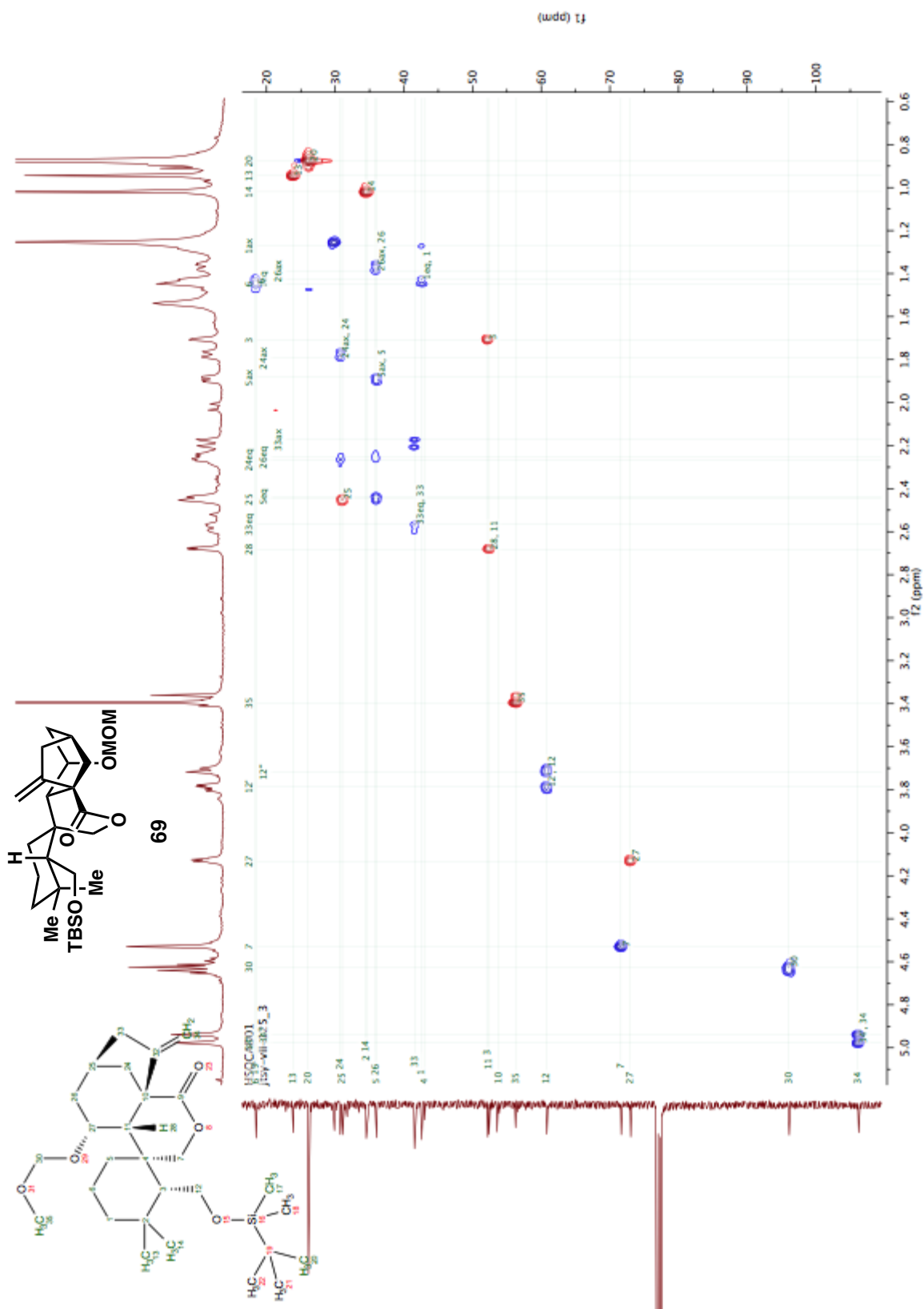


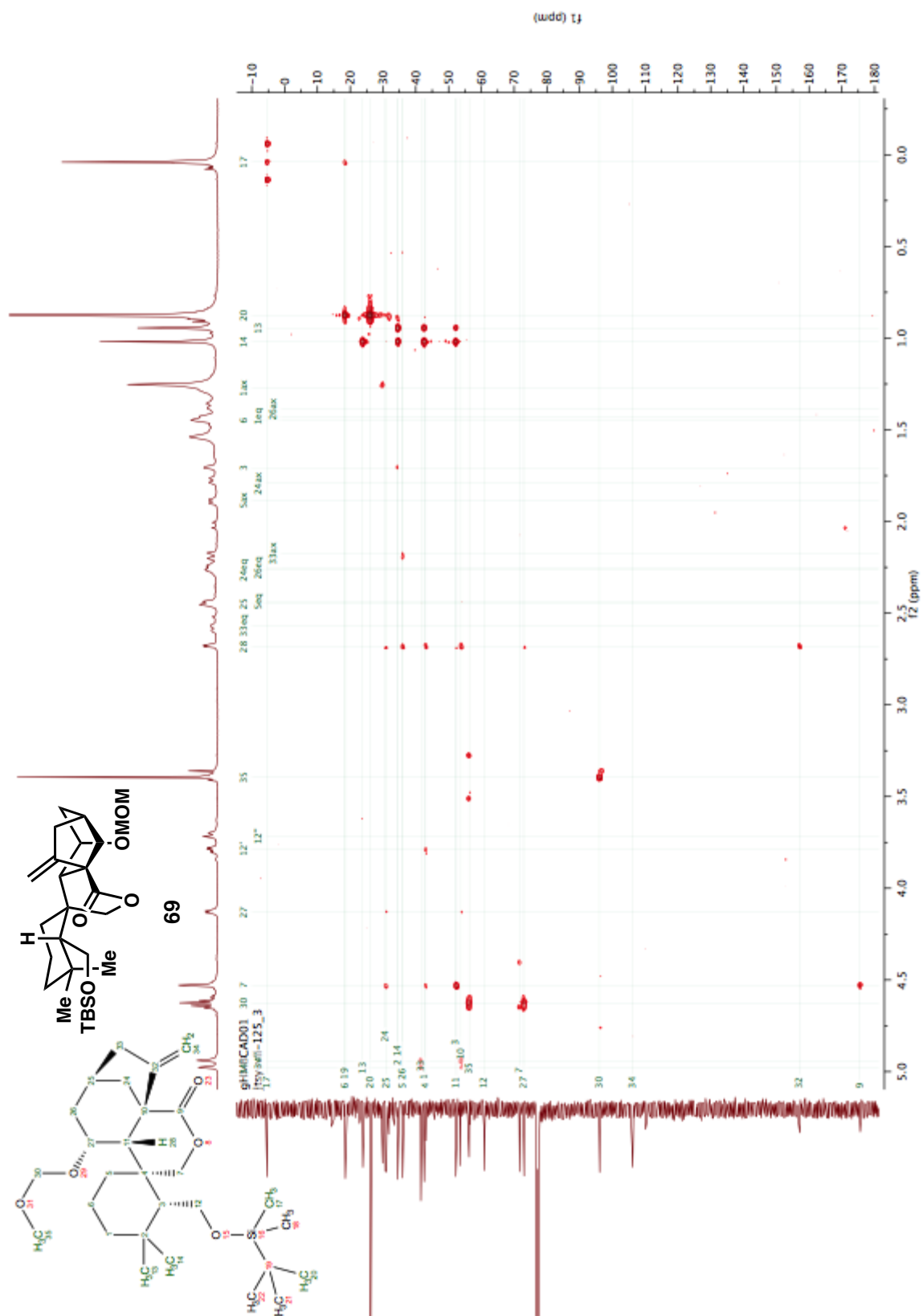
69

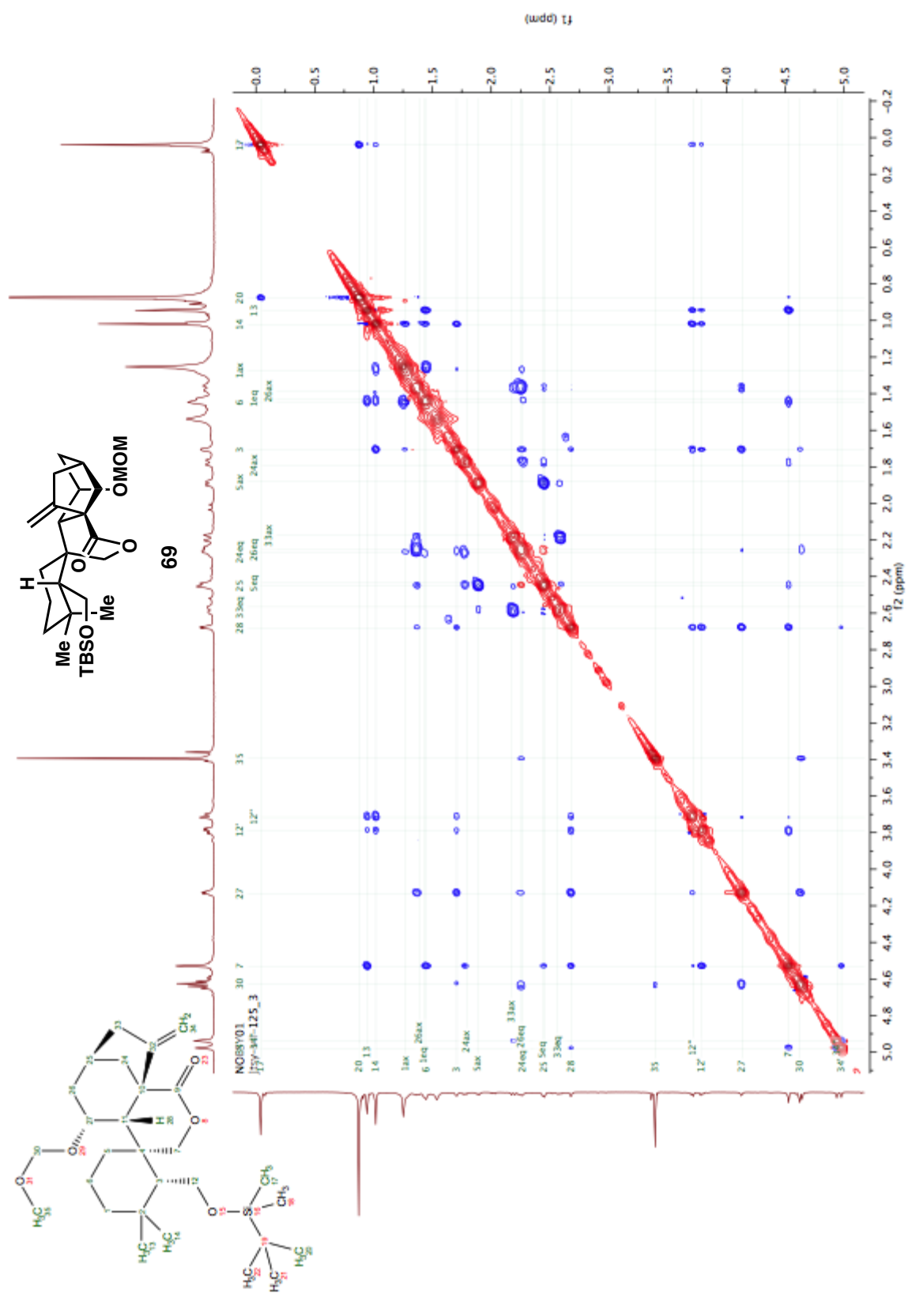


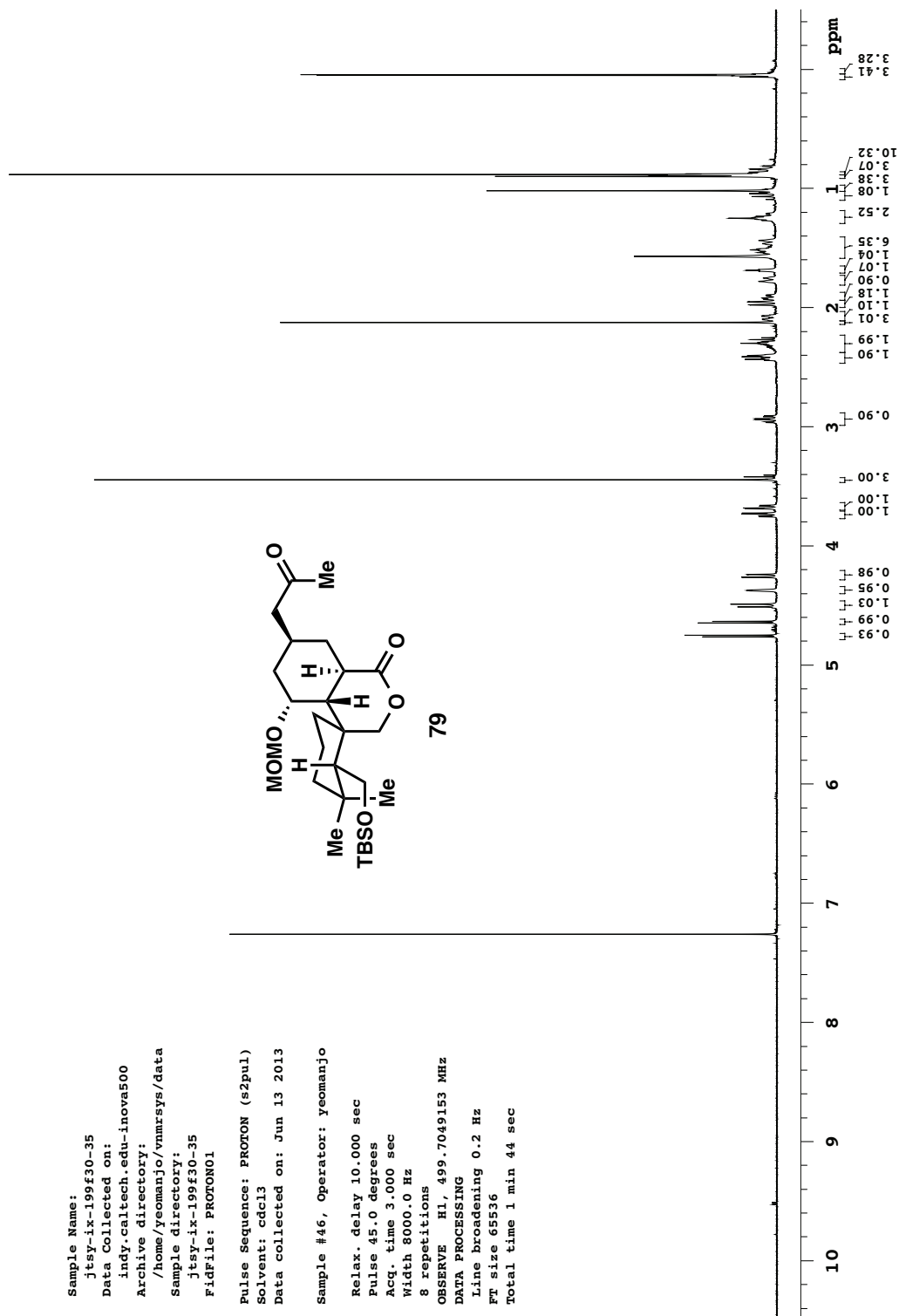


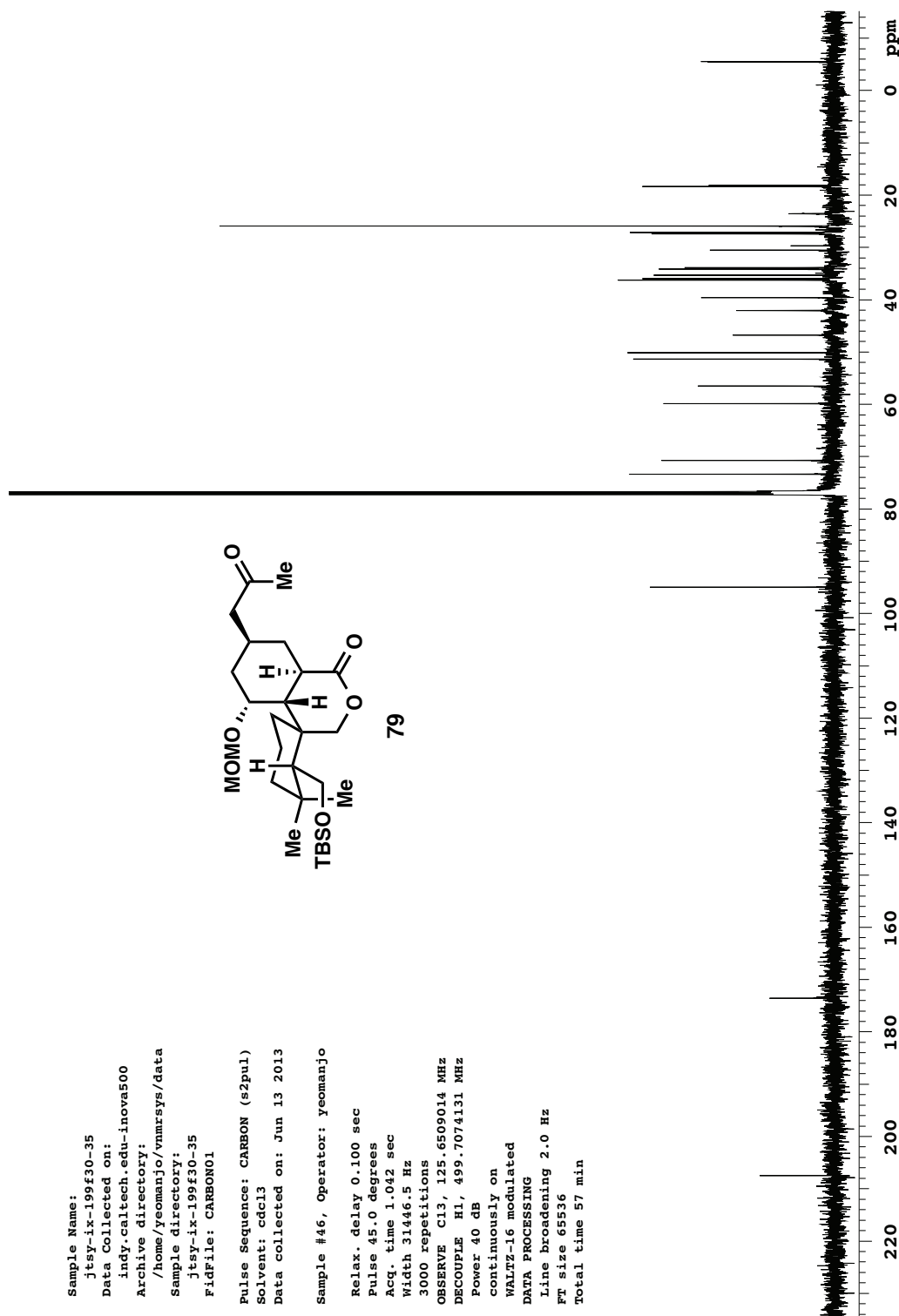


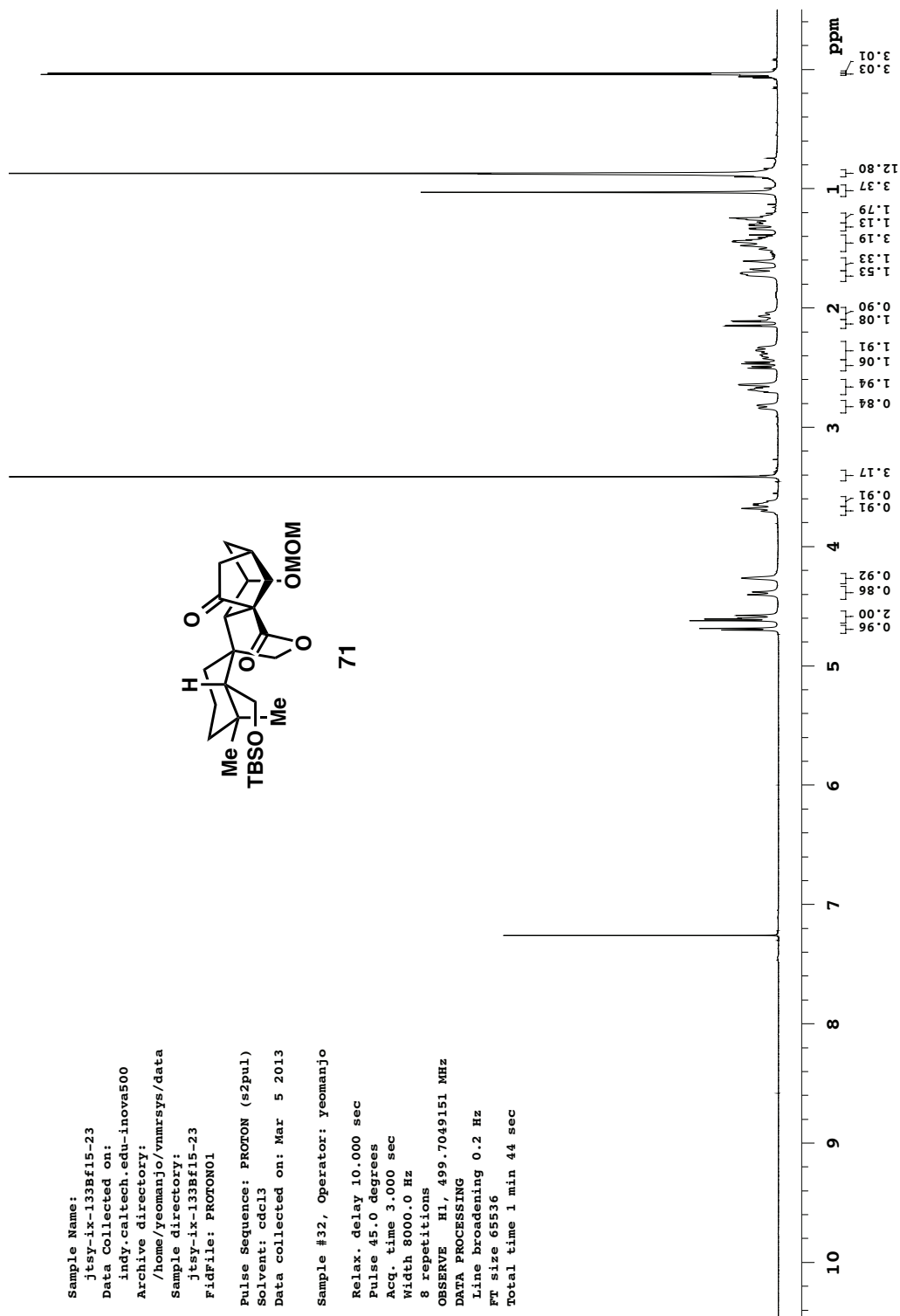


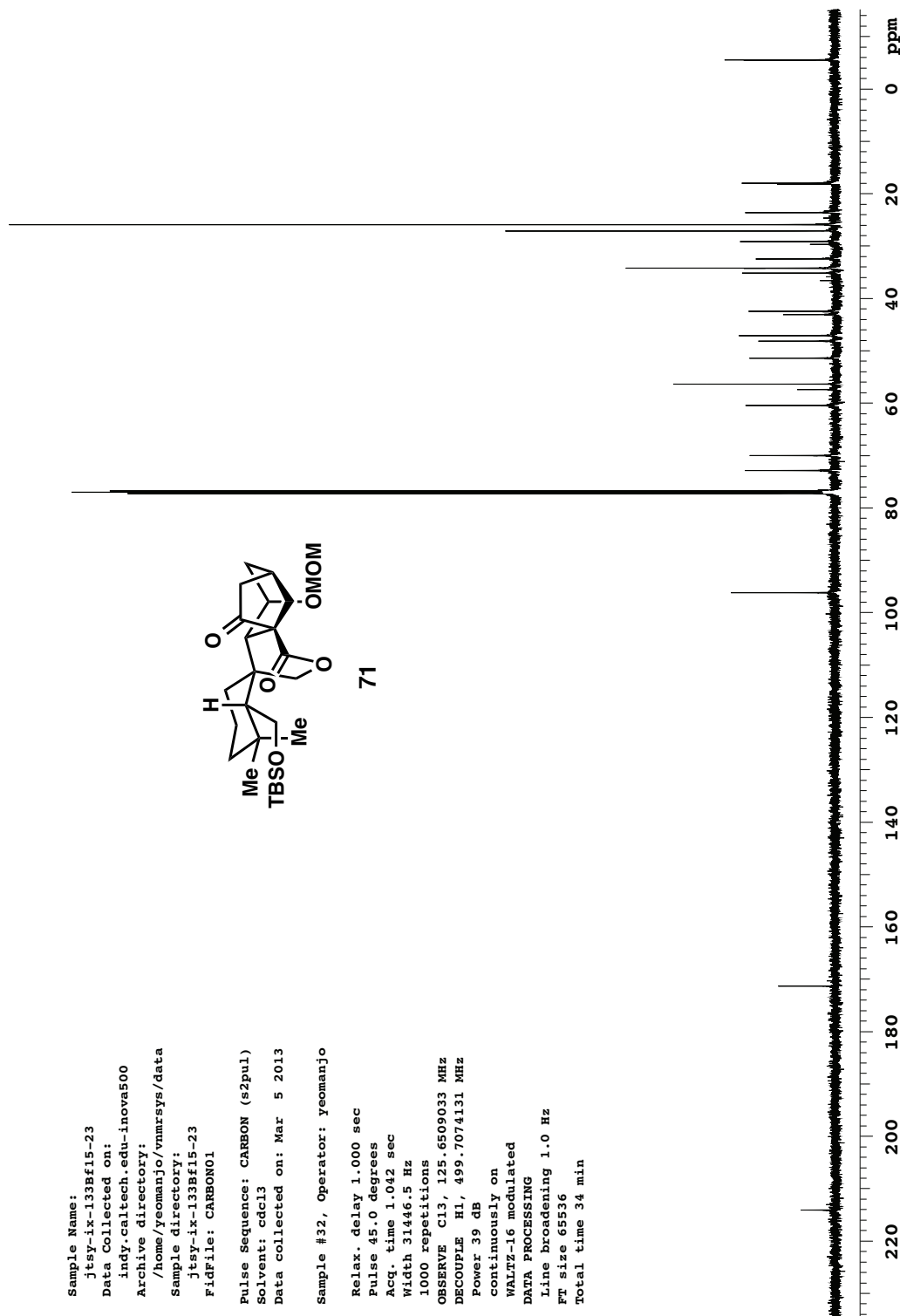


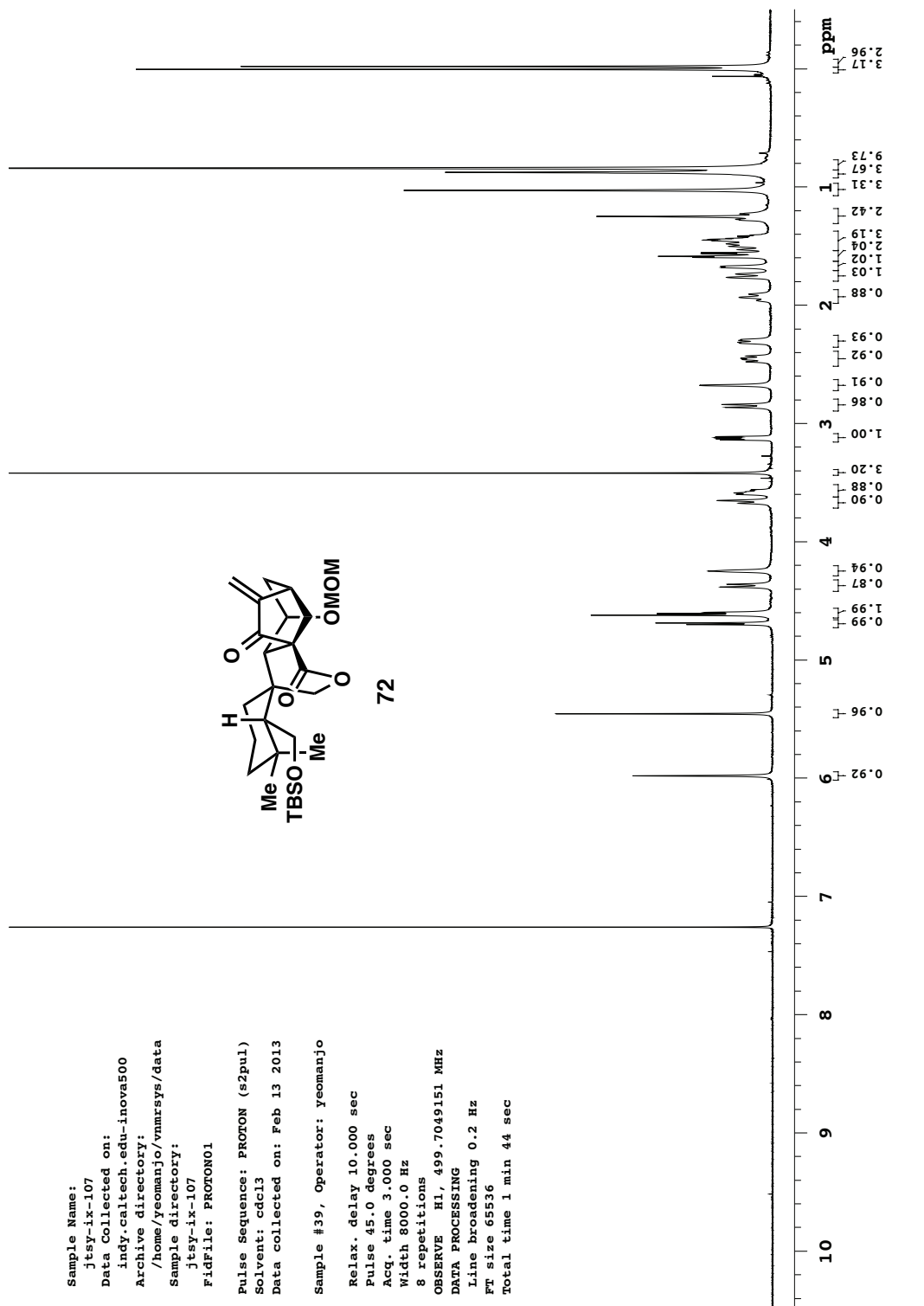


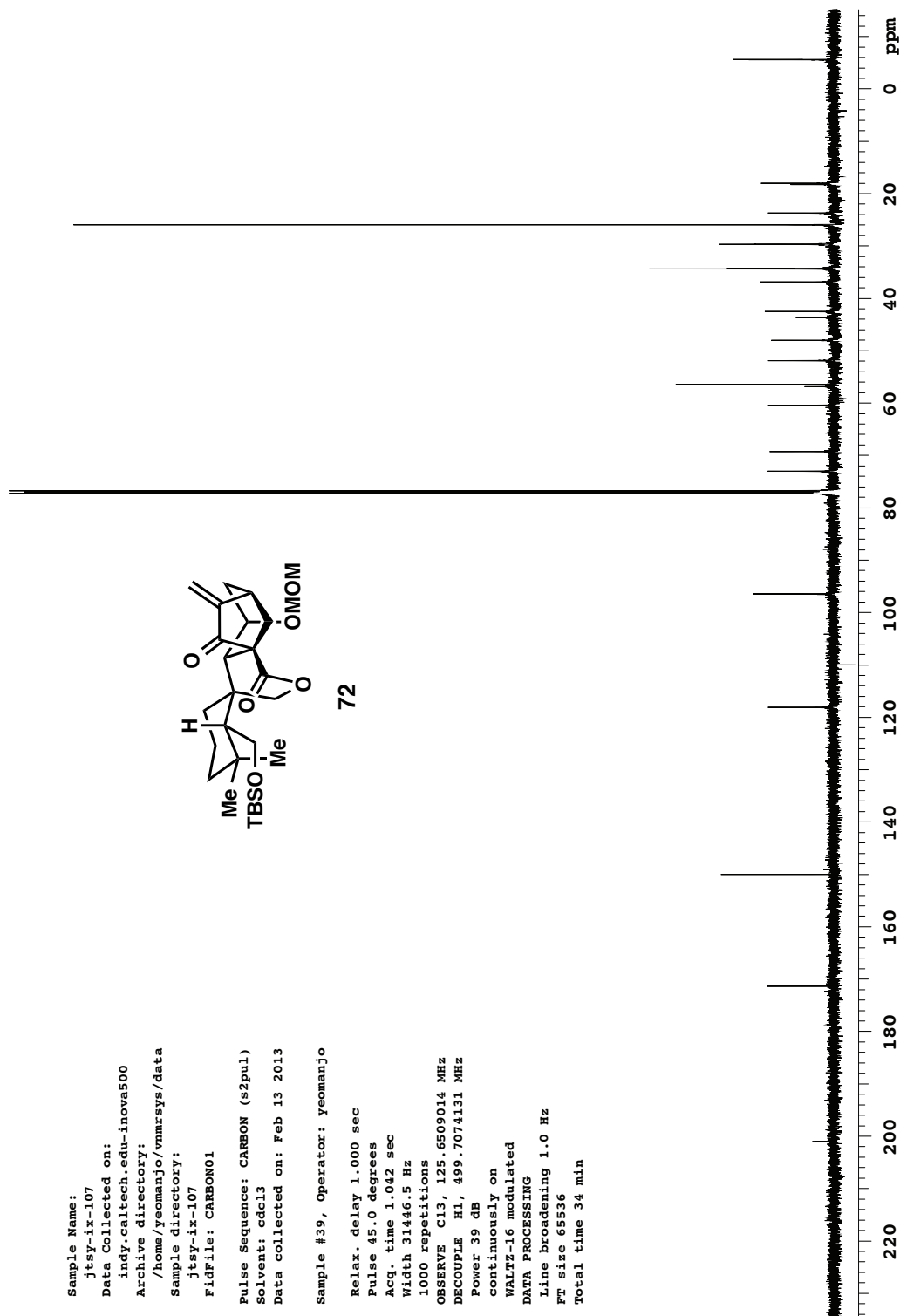


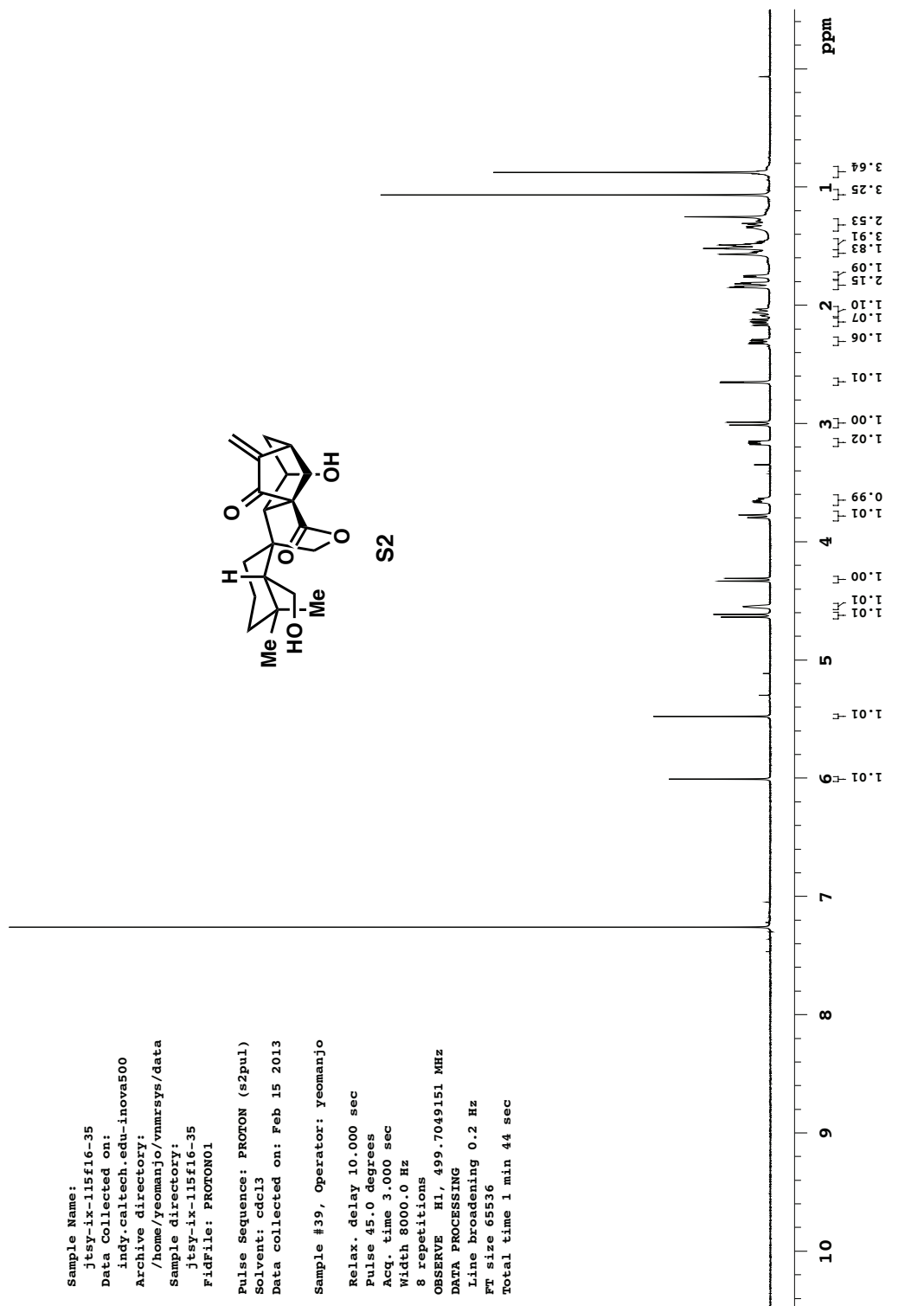


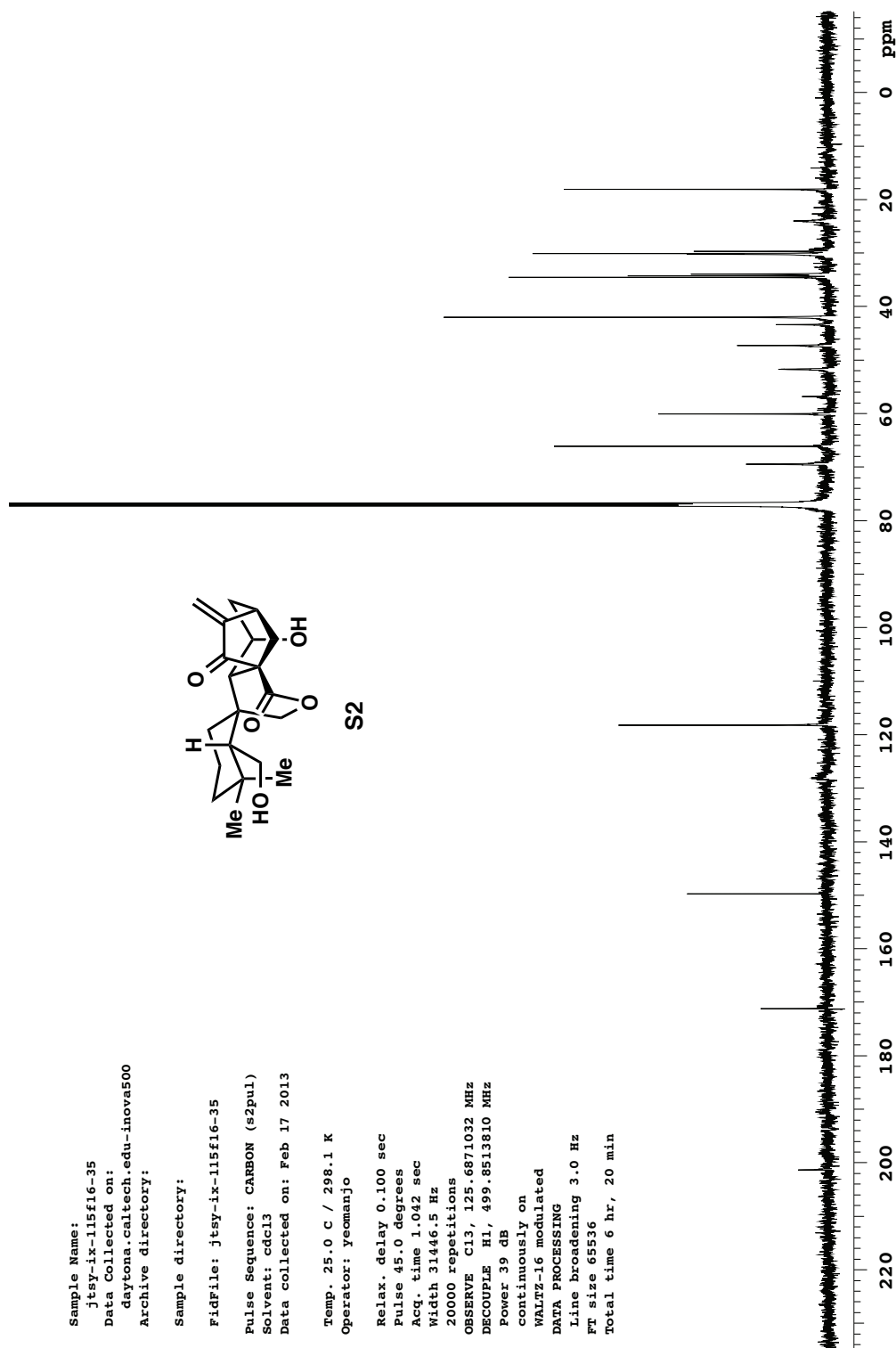


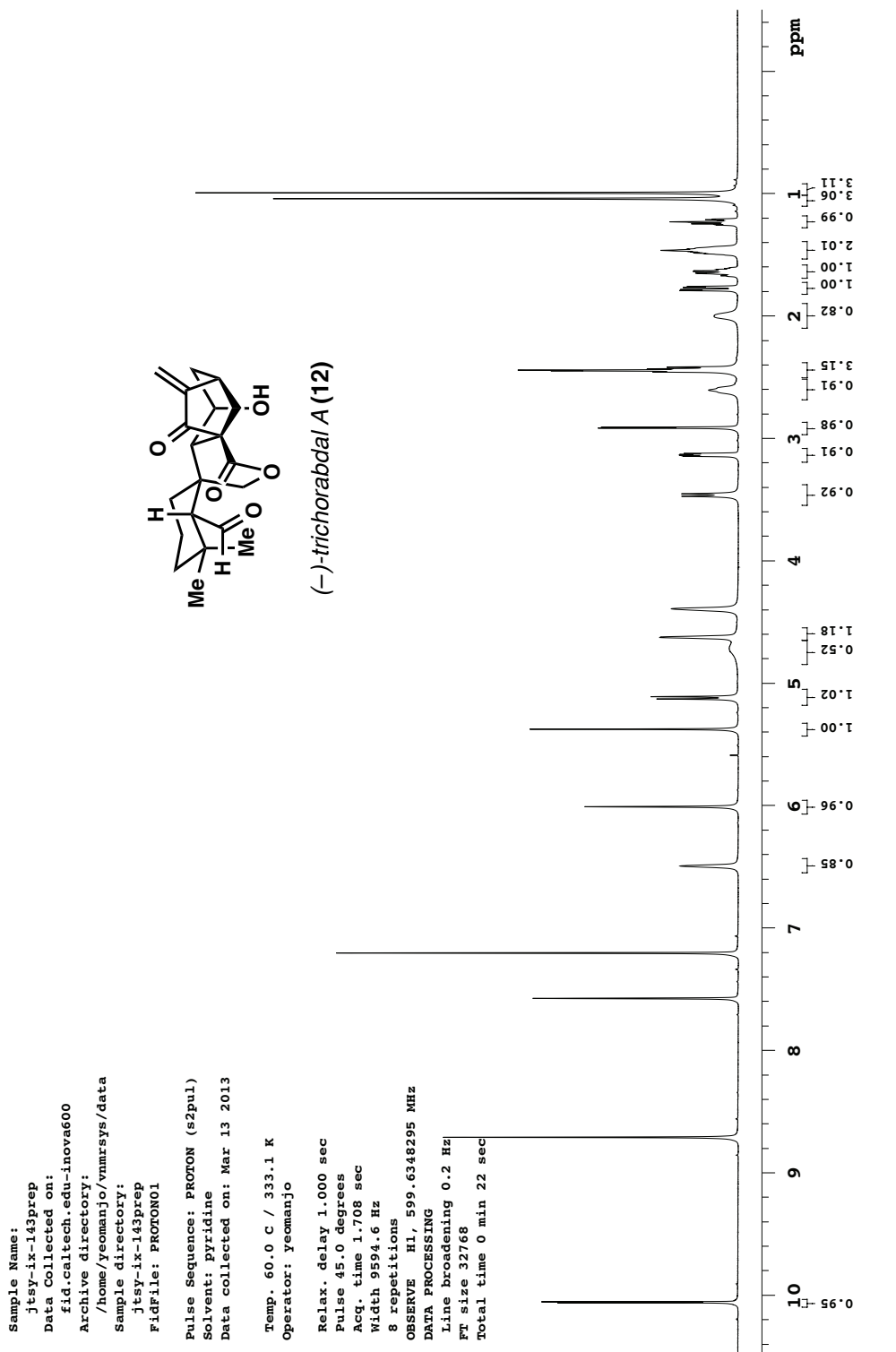


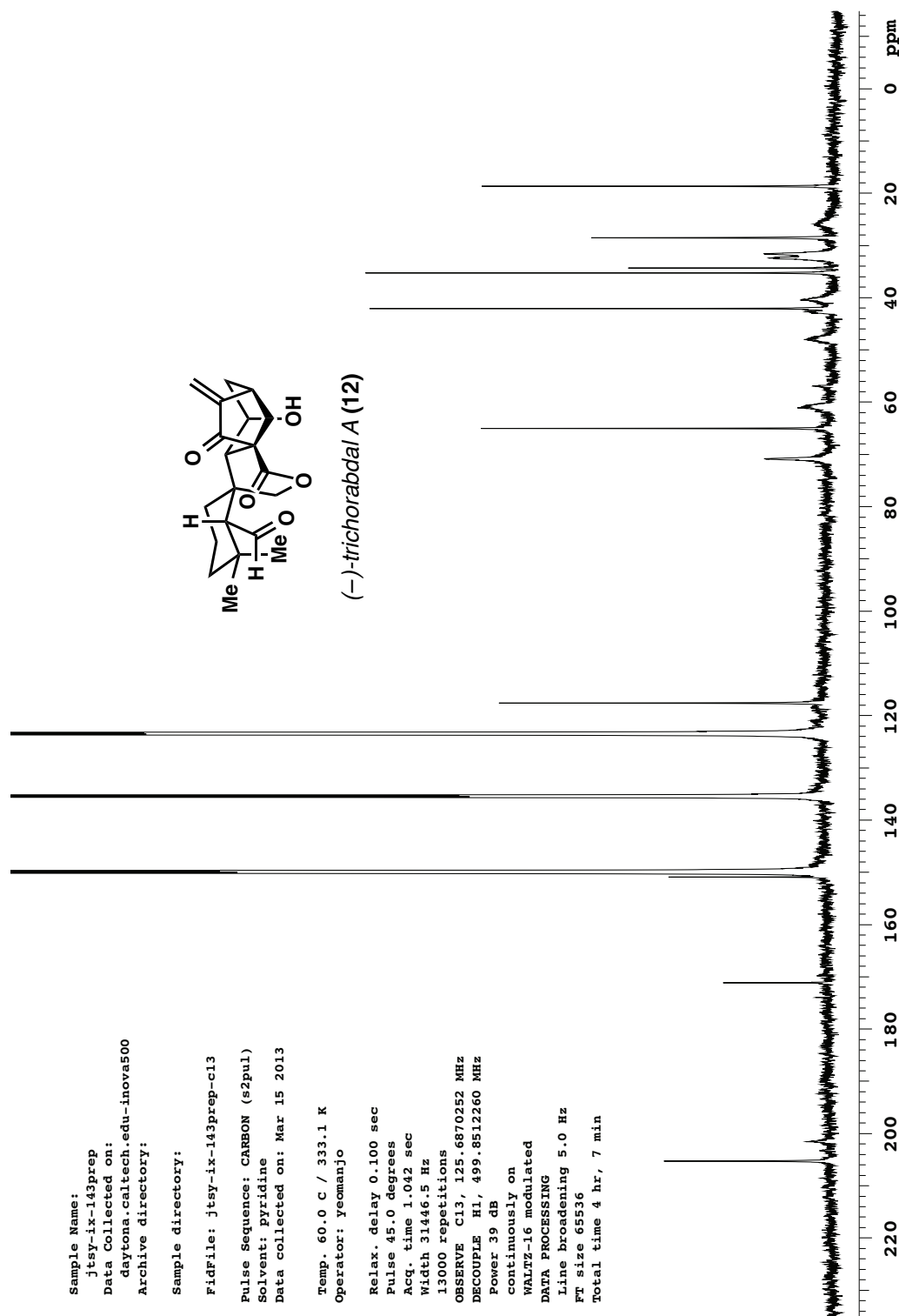


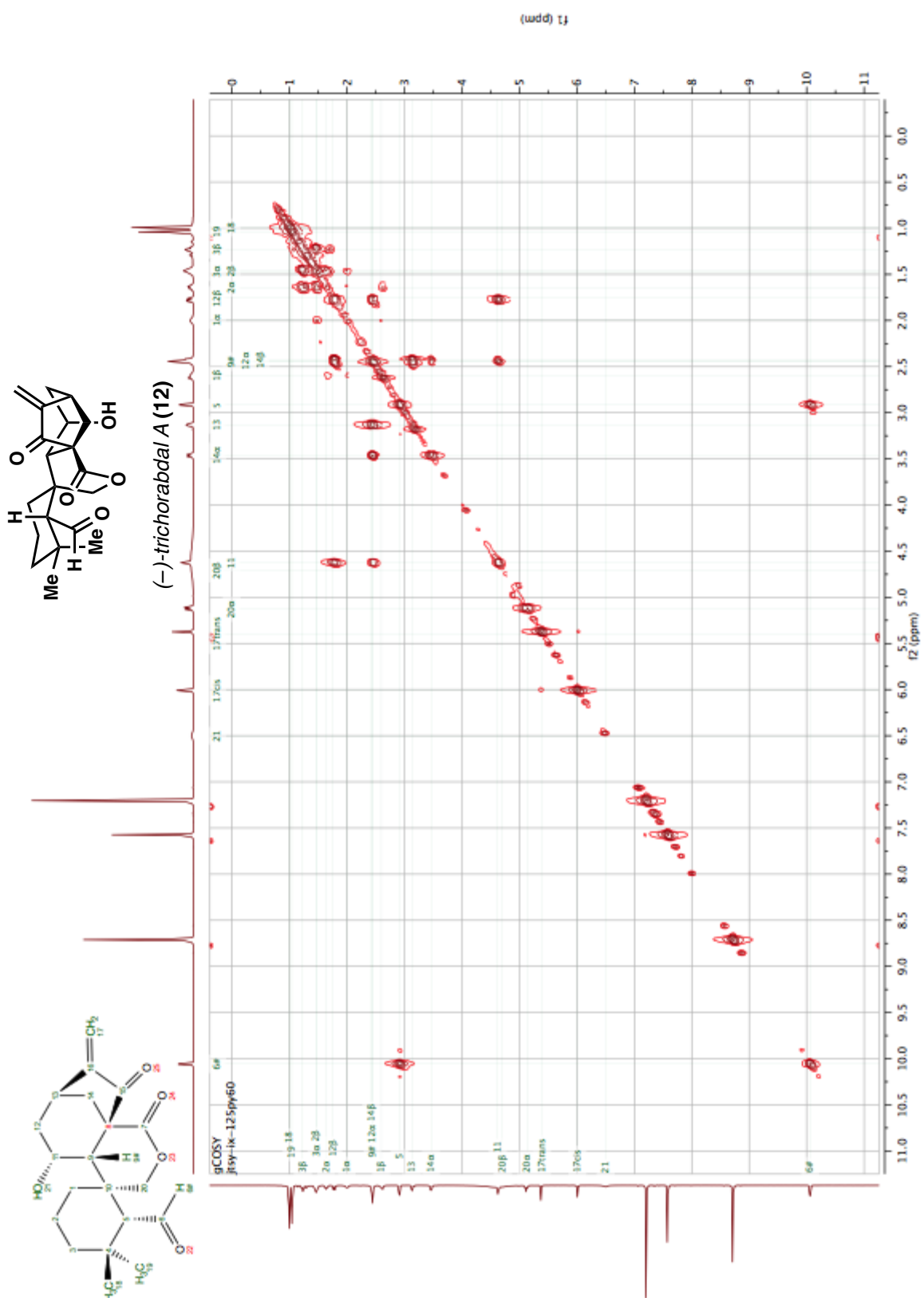


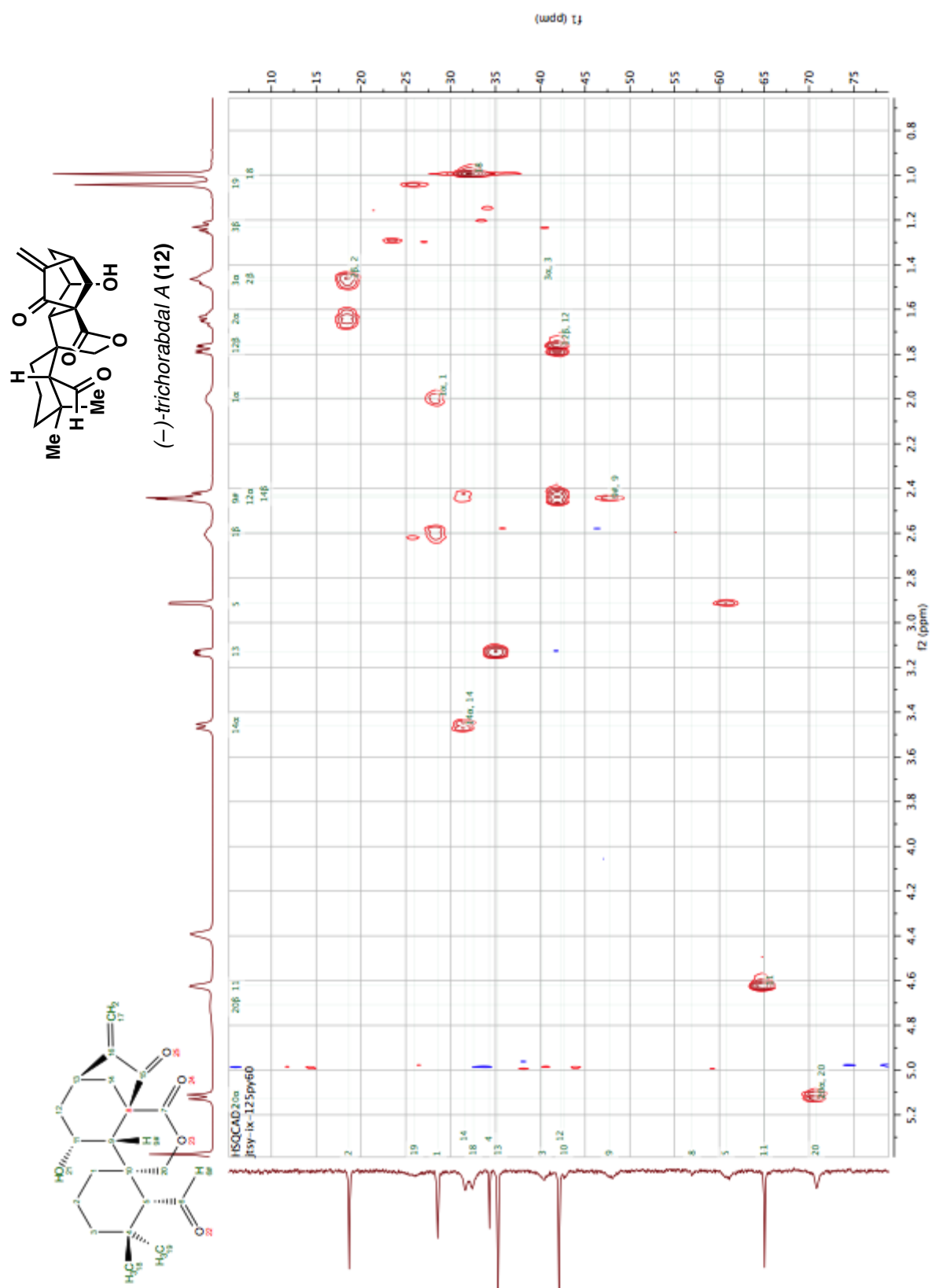


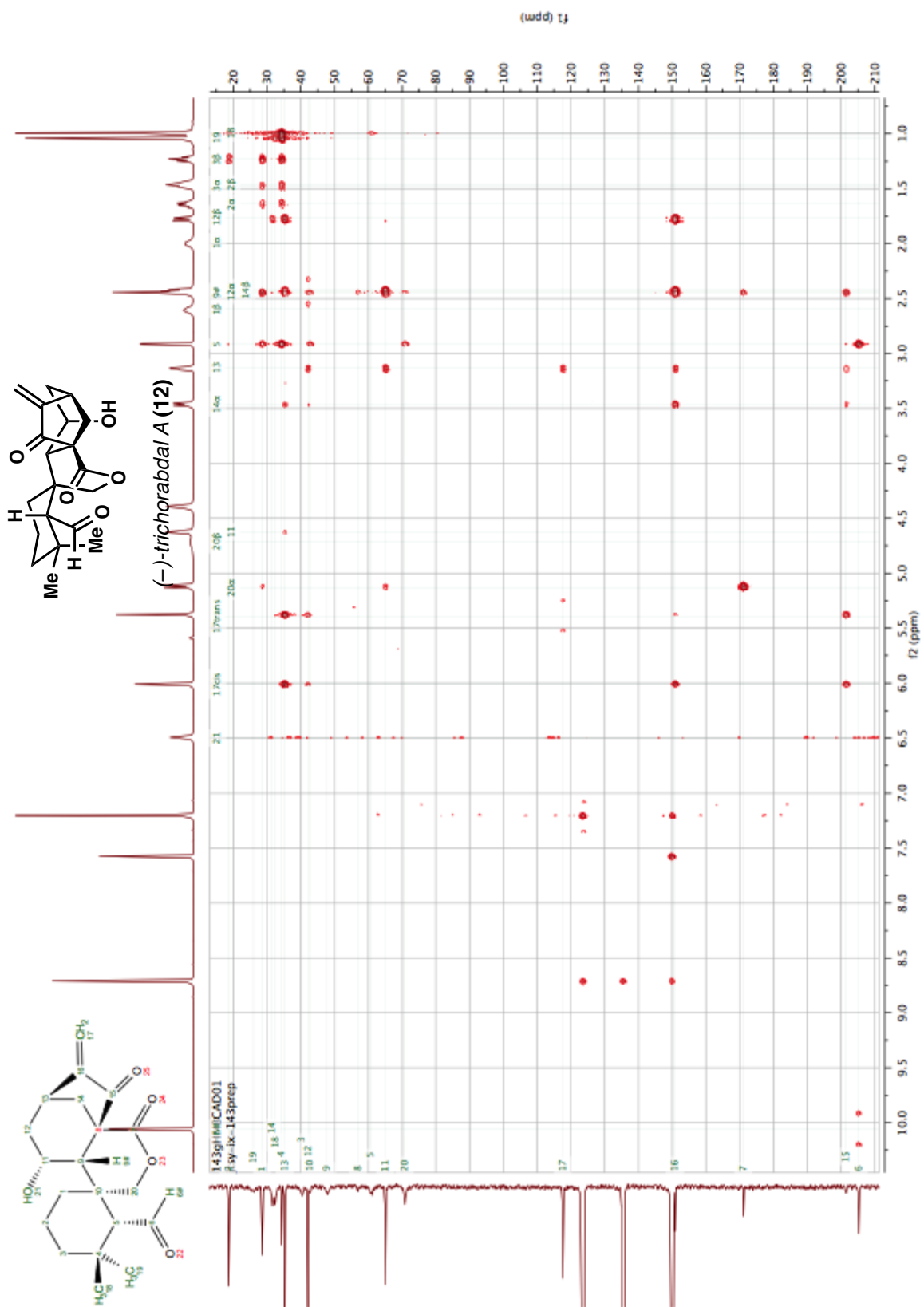


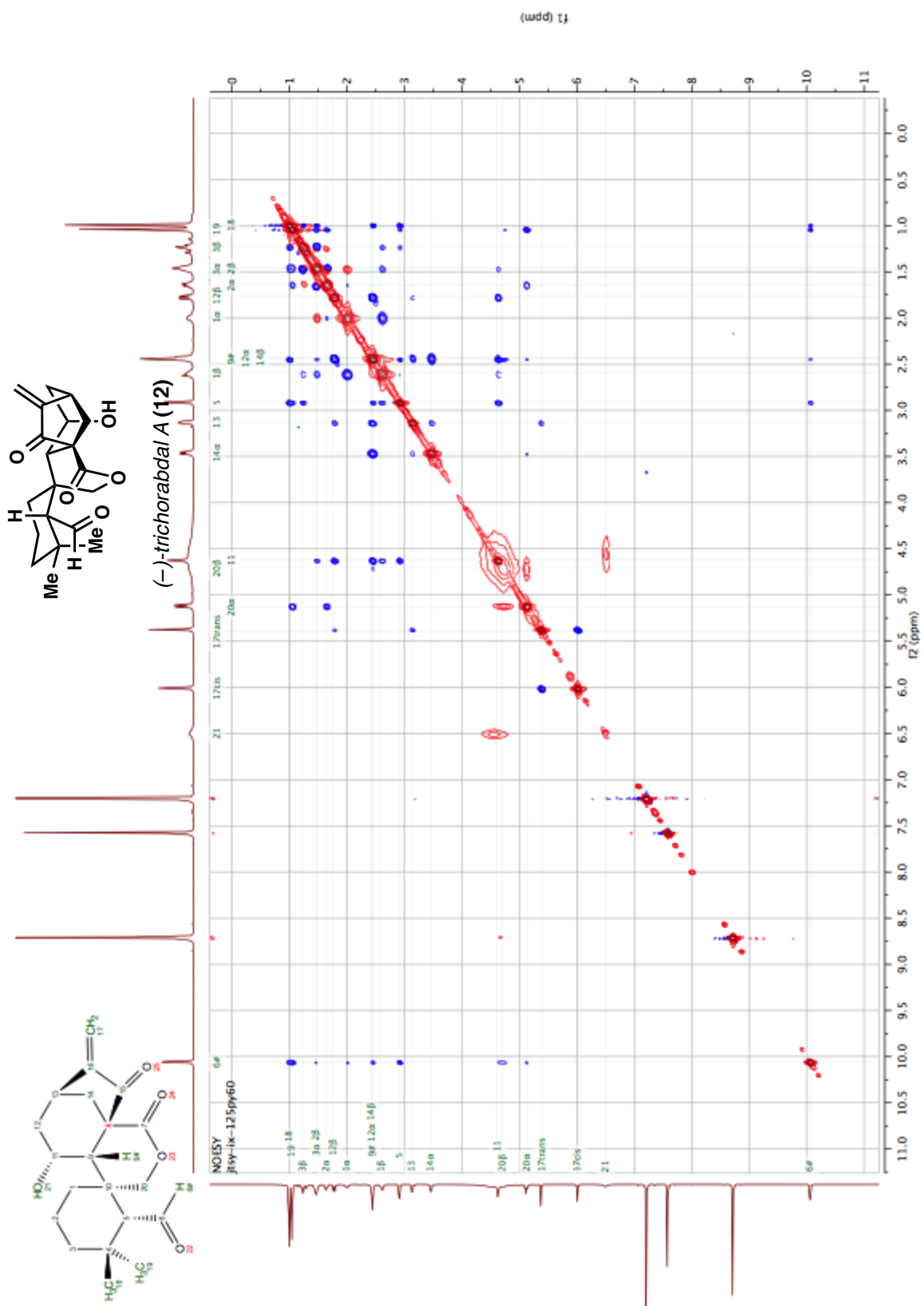


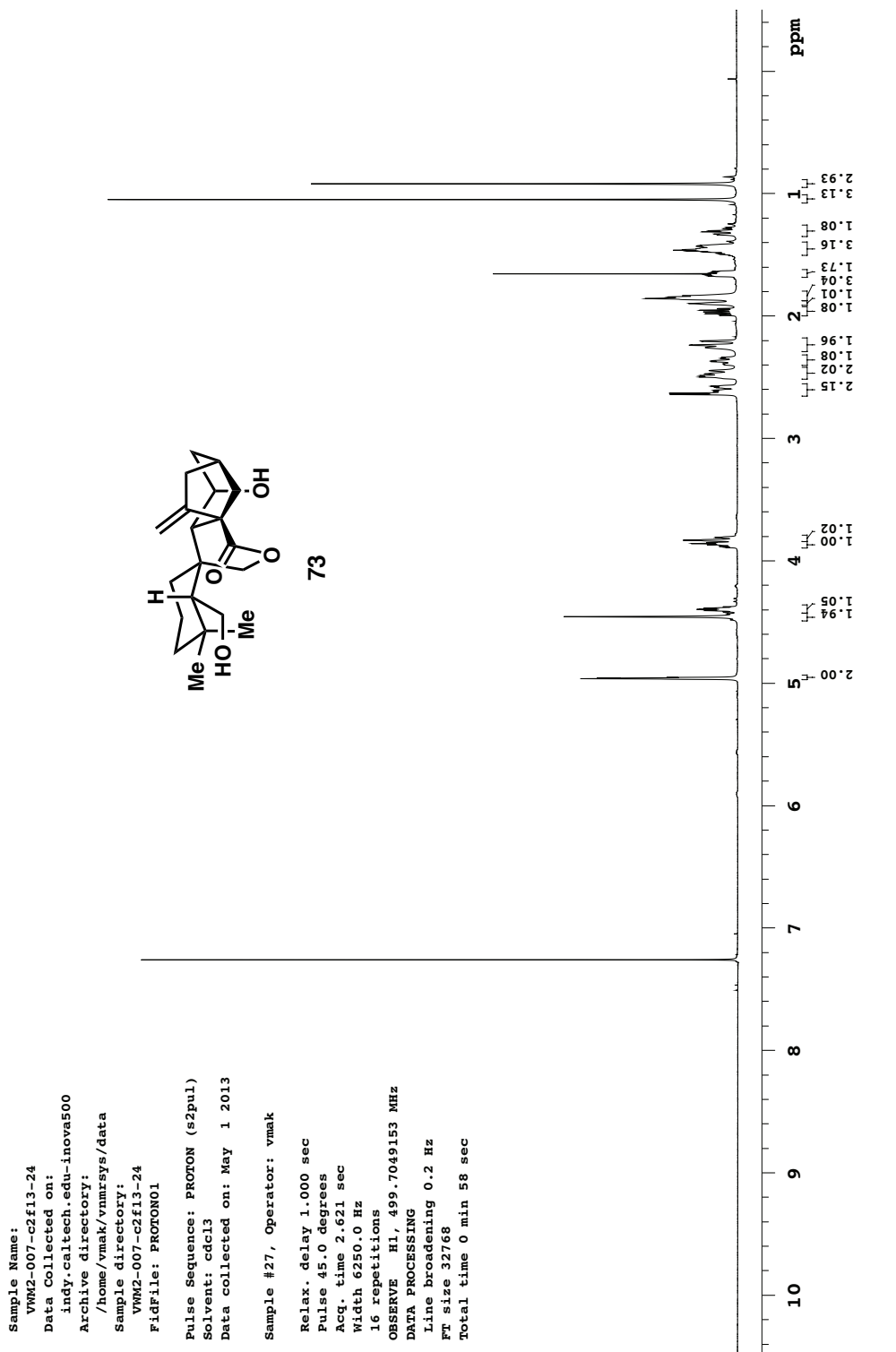


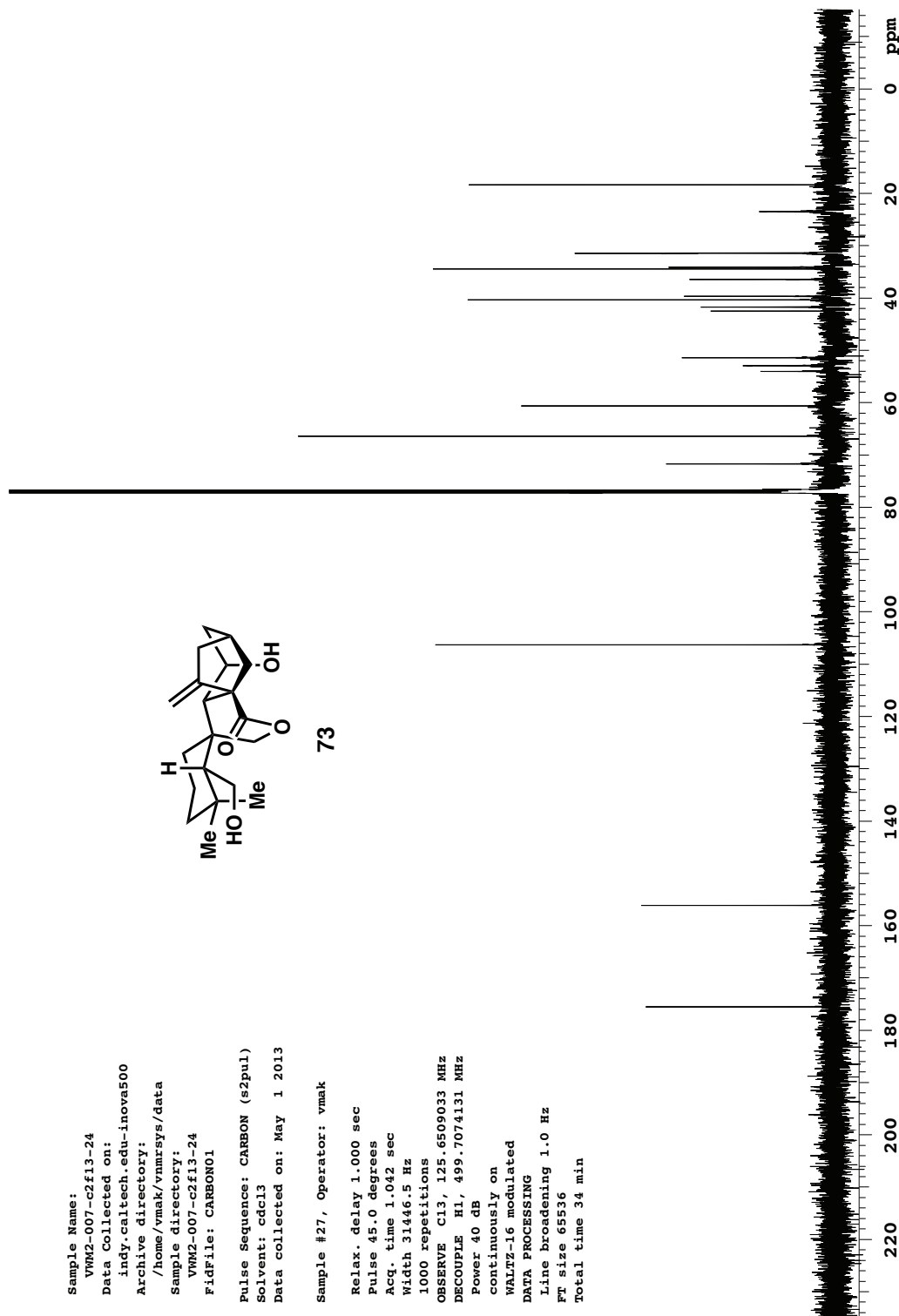


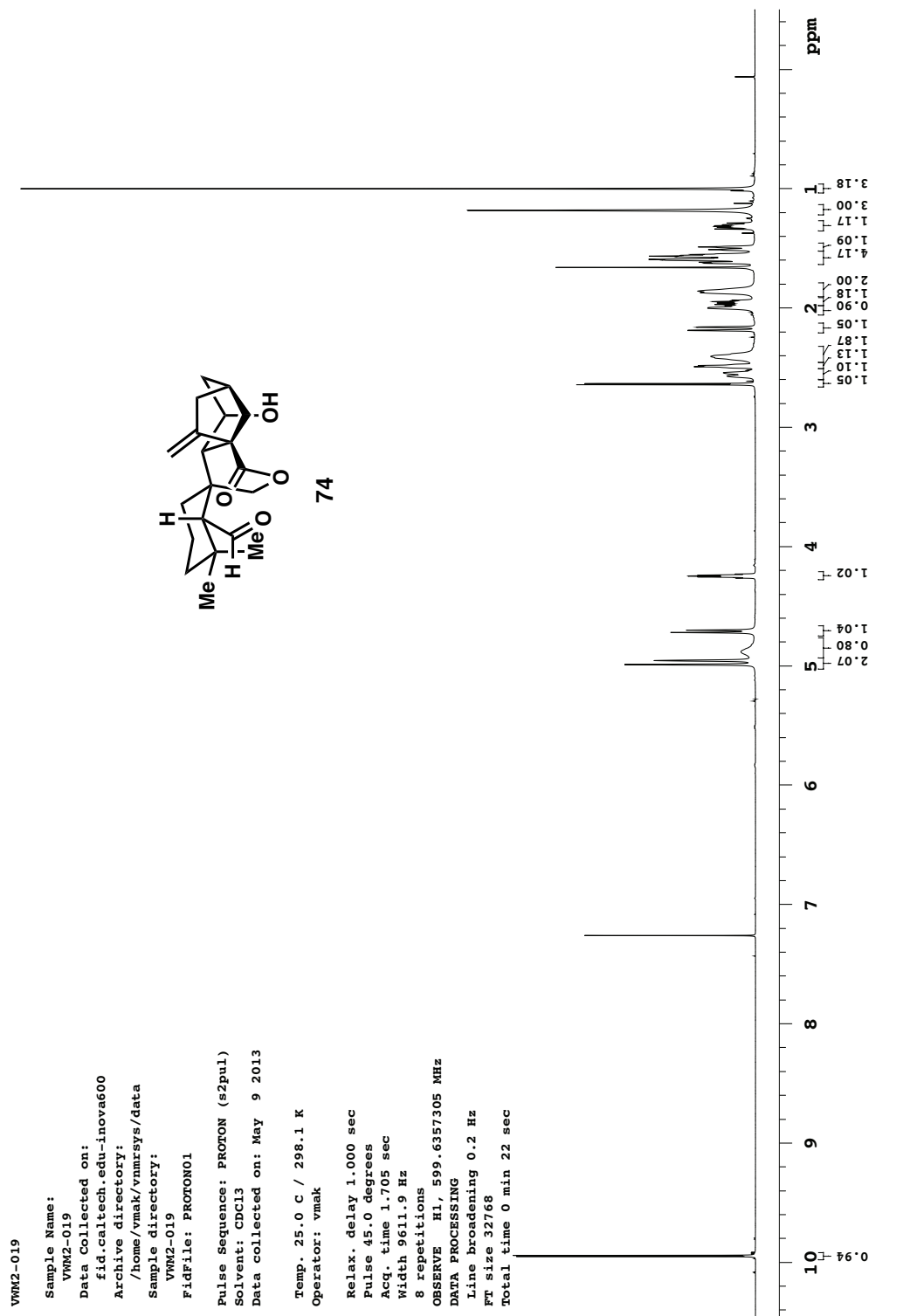


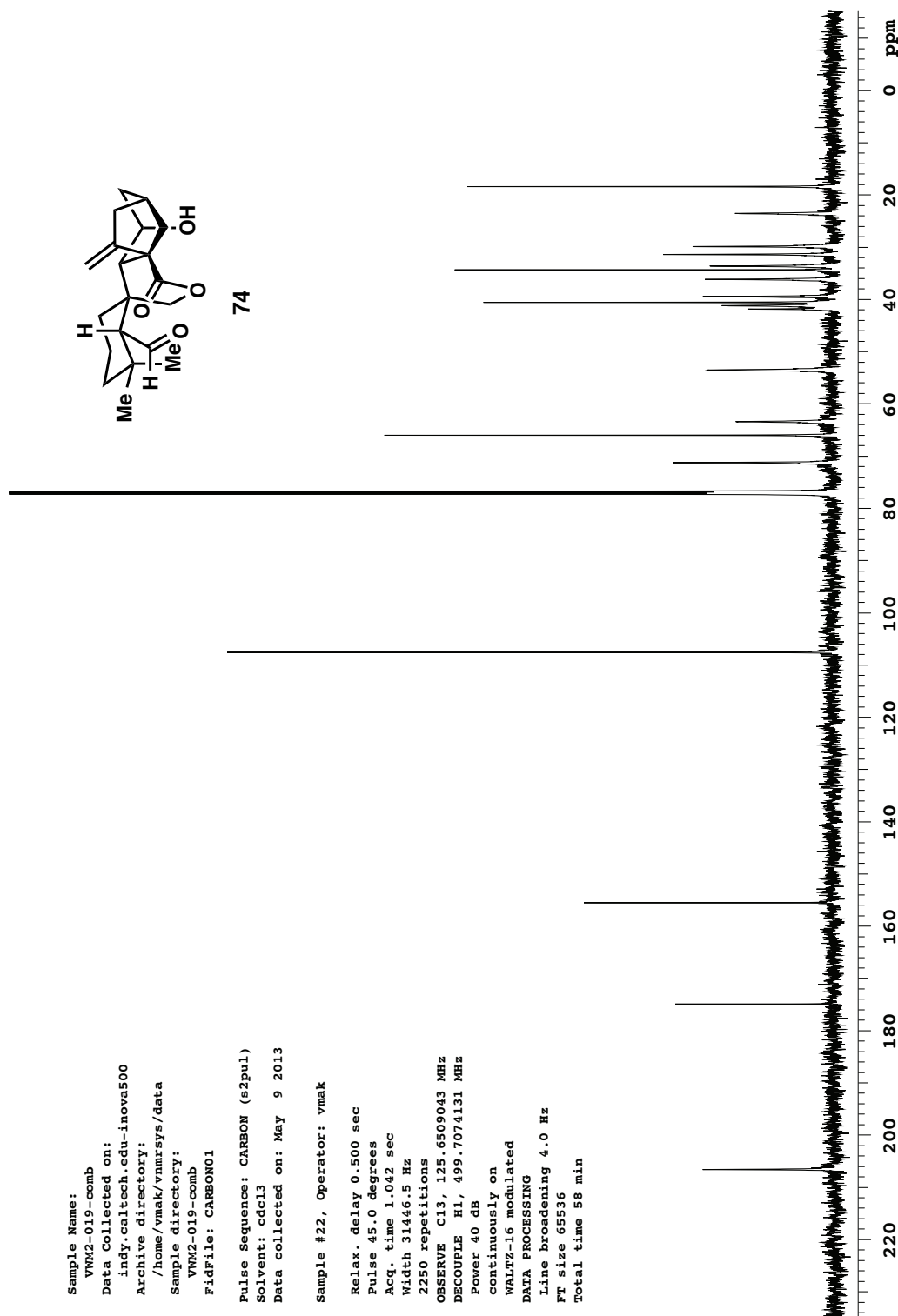


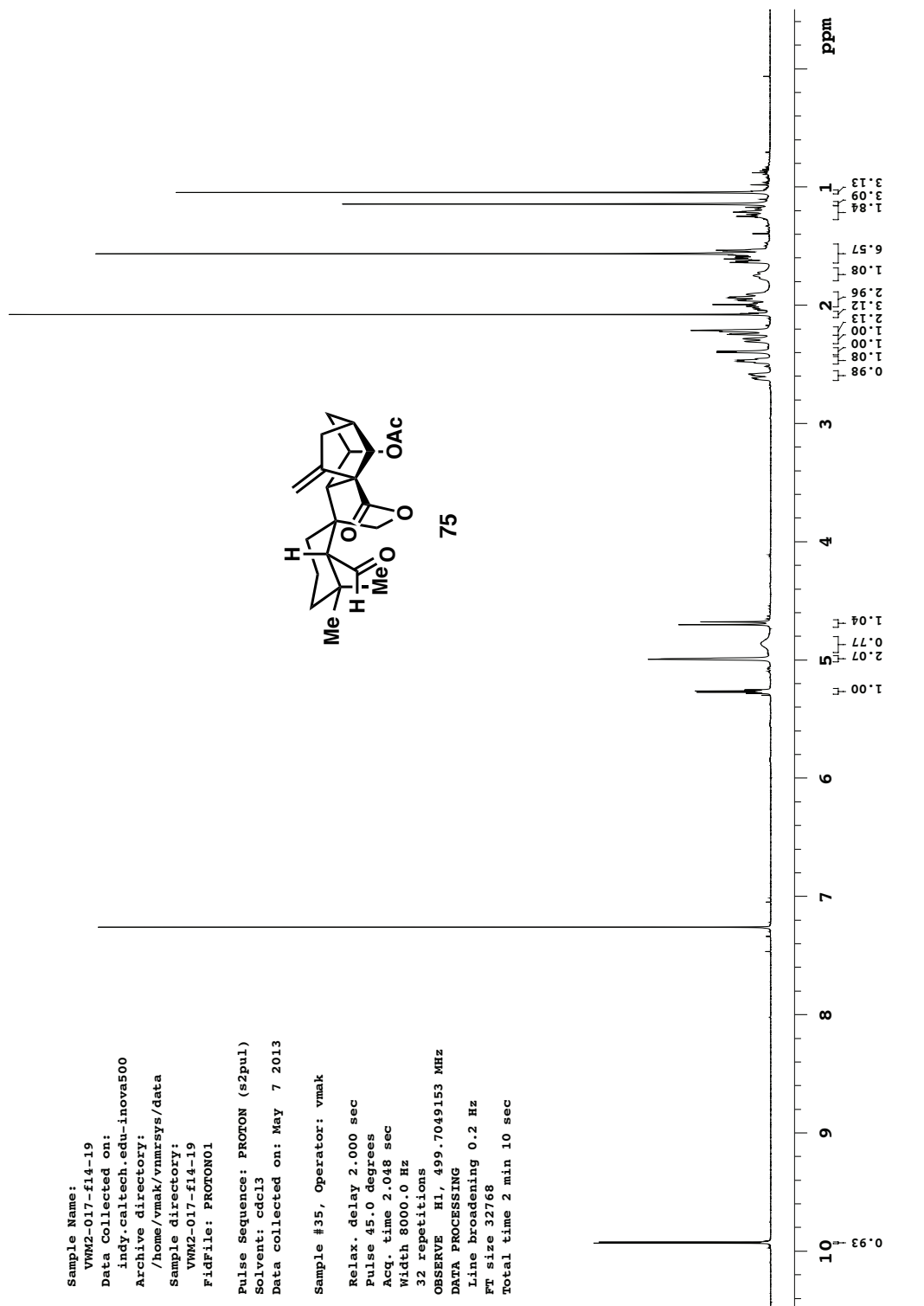


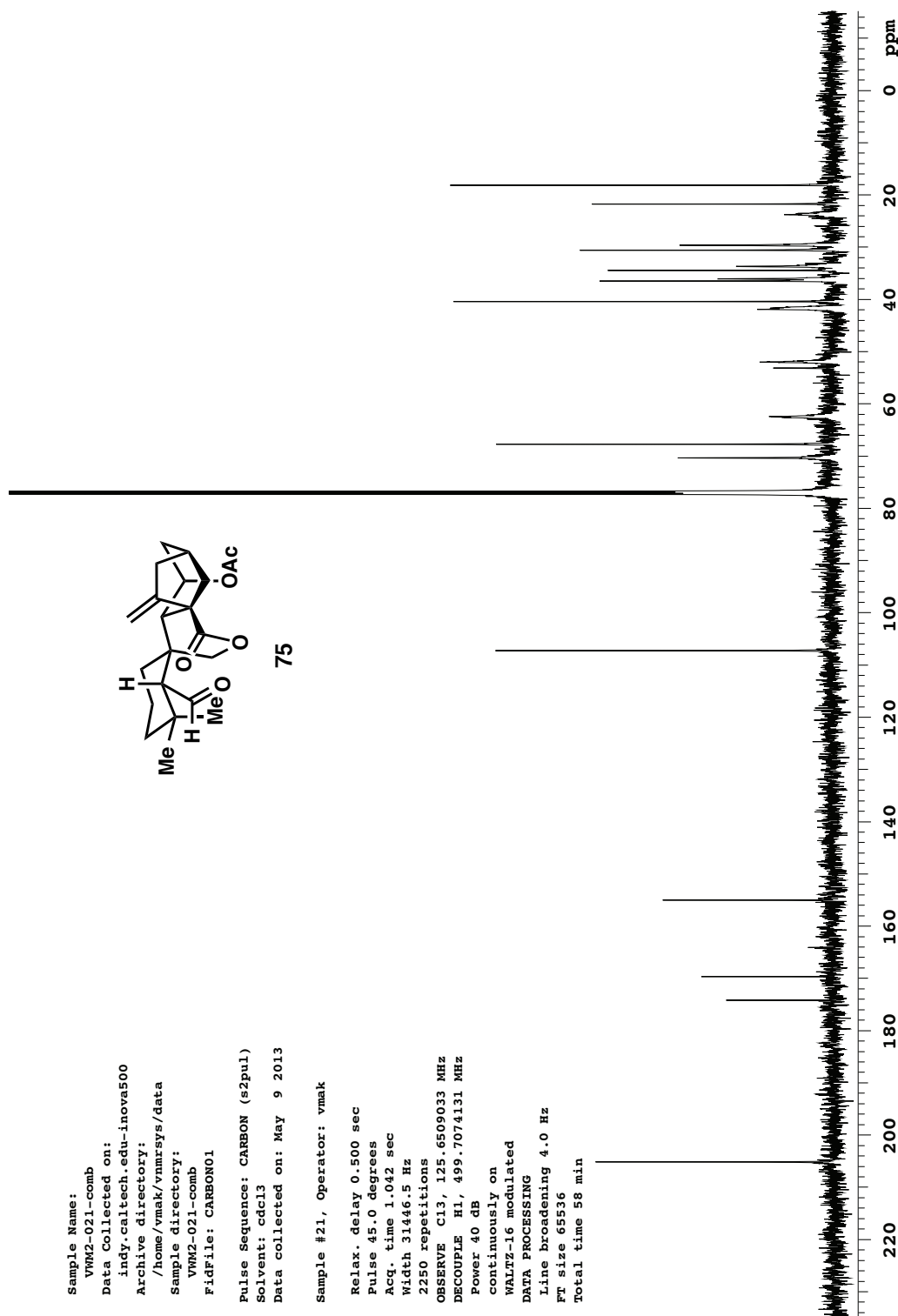








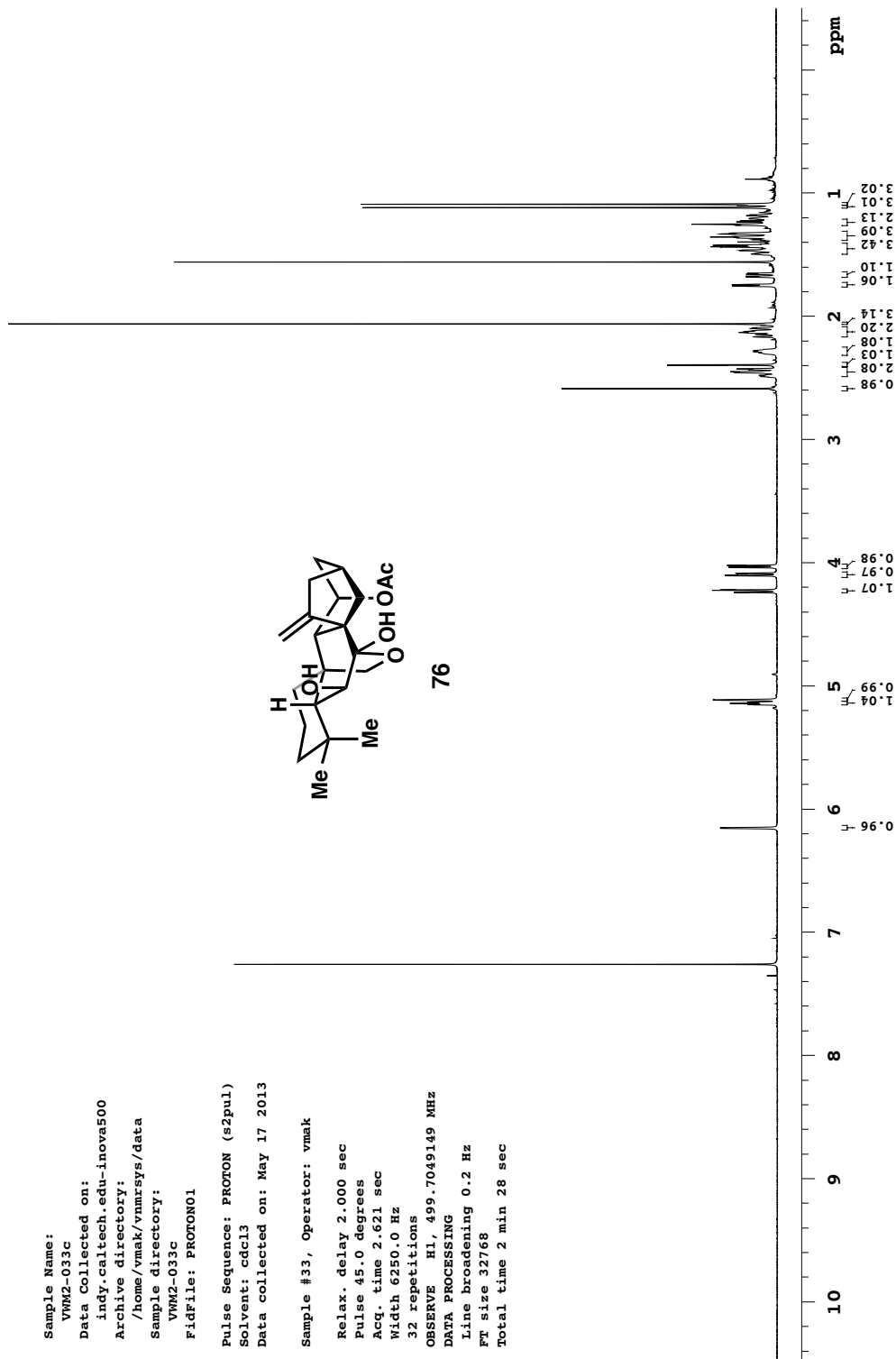
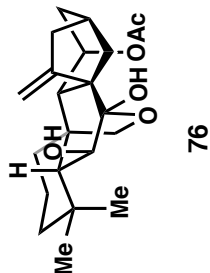


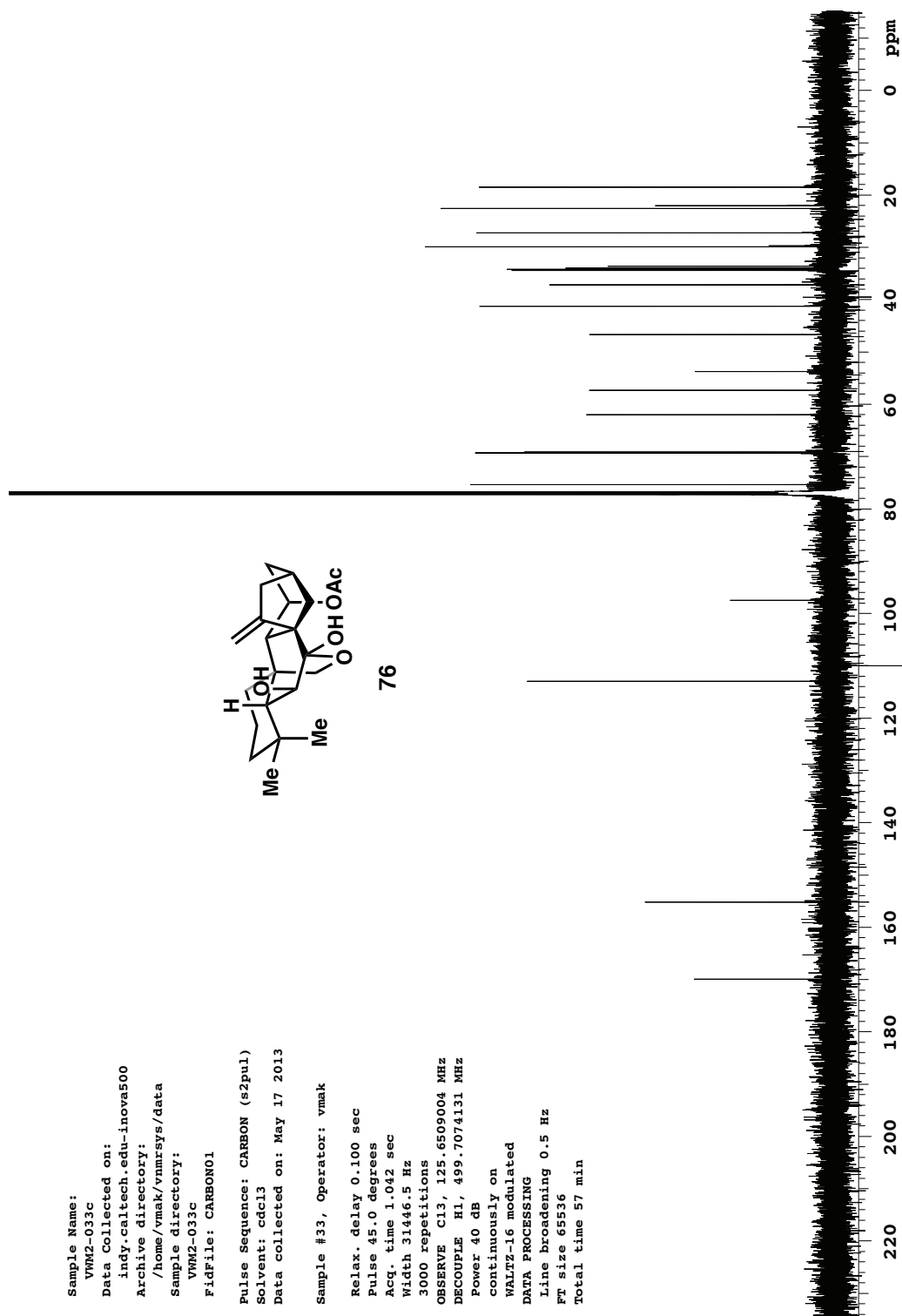


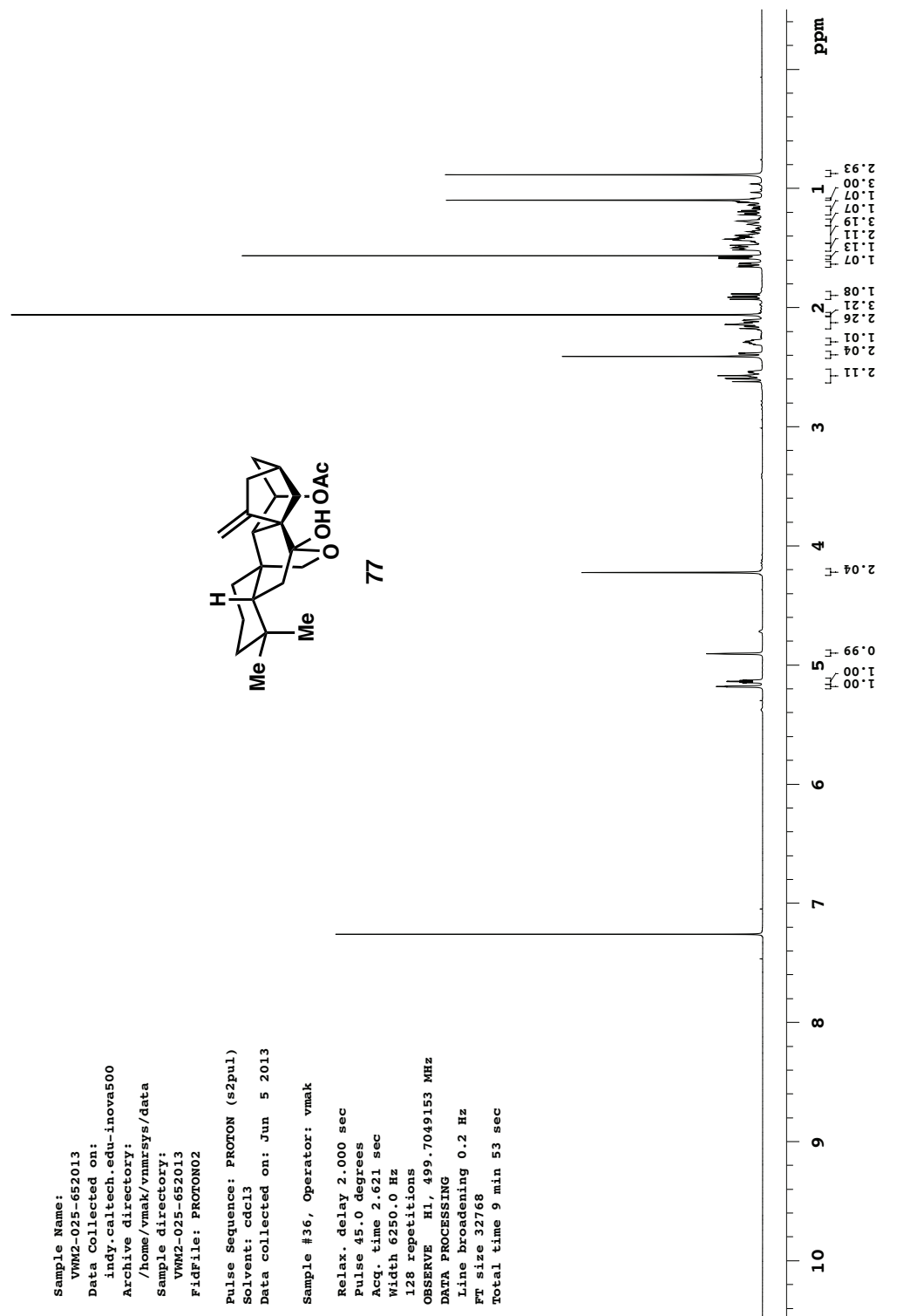
Sample Name:
VWM2-033c
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/vmak/vnmrsys/data
Sample directory:
VWM2-033c
FidFile: PROTON01

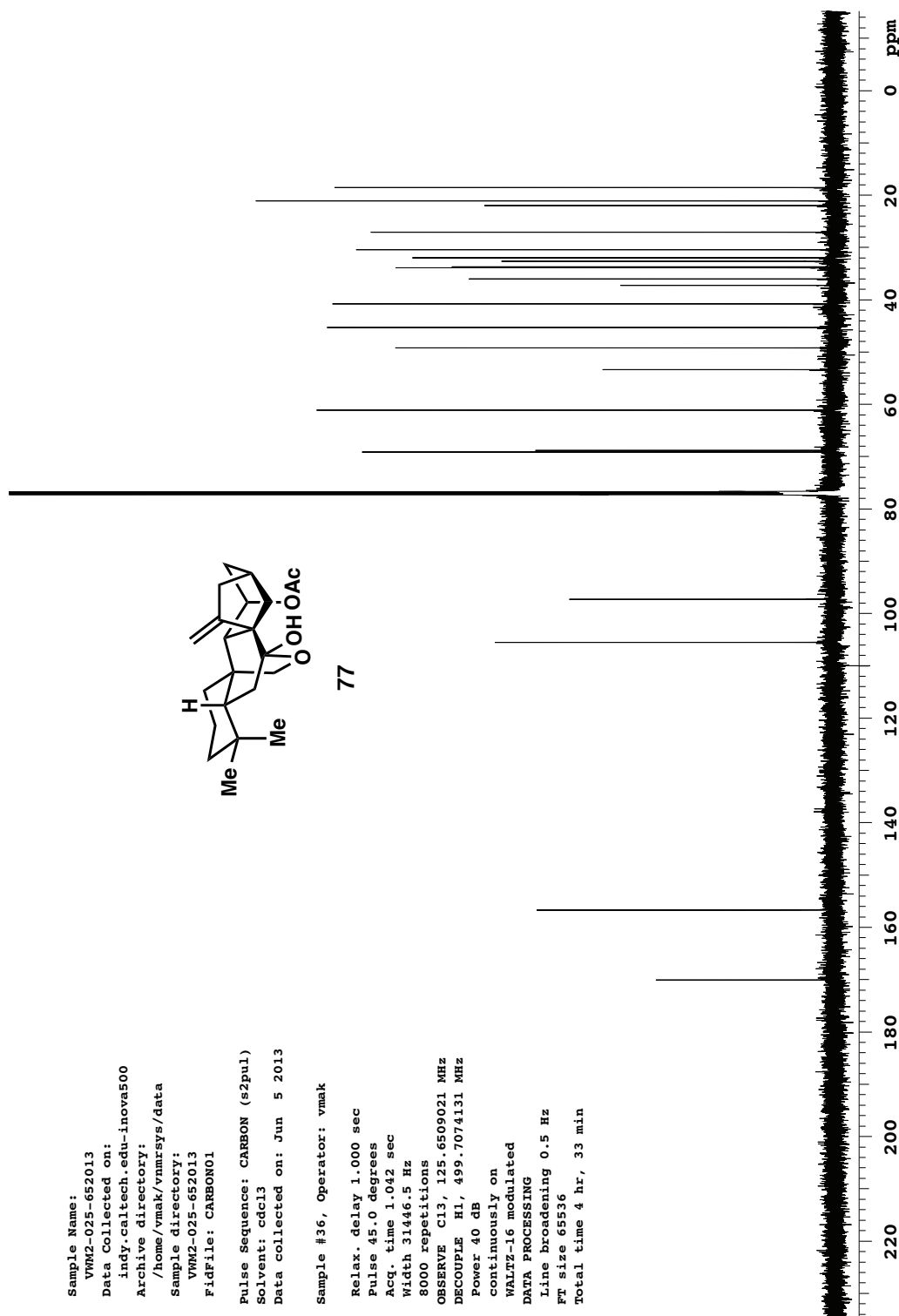
Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: May 17 2013

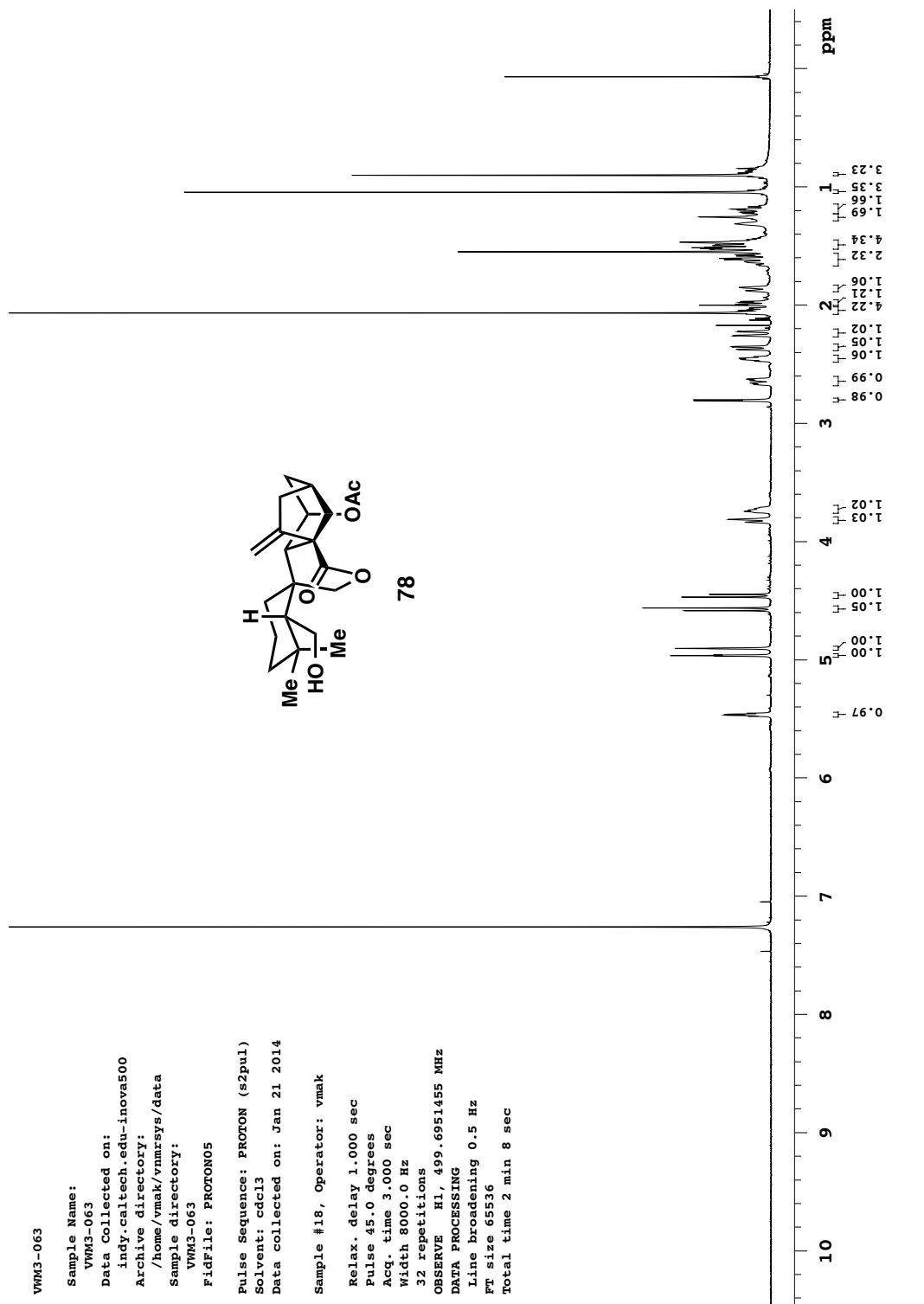
Sample #33, Operator: vmak
Relax. delay 2.000 sec
Pulse 45.0 degrees
Acq. time 2.621 sec
Width 6250.0 Hz
32 repetitions
OBSERVE H1, 499.7049149 MHz
DATA PROCESSING
Line broadening 0.2 Hz
FT size 32768
Total time 2 min 28 sec











VWM3-063

Sample Name:
VWM3-063
Data Collected on:
indy.caltech.edu-inova500
Archive directory:
/home/vmak/vnmrsys/data
Sample directory:
VWM3-063
Fidfile: CARBON01
Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Jan 21 2014

Sample #18, Operator: vmak
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.042 sec
Width 31446.5 Hz
5000 repetitions
OBSERVE C13, 125.648443 MHz
DECOUPLE H1, 499.6976415 MHz
Power 40 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 2.0 Hz
FT size 65536
Total time 2 hr, 50 min

