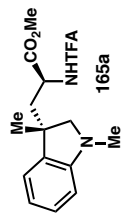


APPENDIX 3

Spectra Relevant to Chapter 3:

Conjugate Addition/in situ Reduction for the Synthesis of Indolines

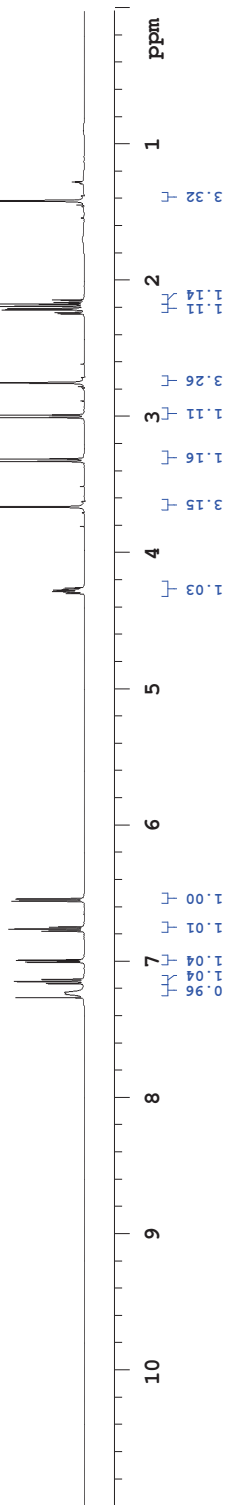
JN-3-021-col2

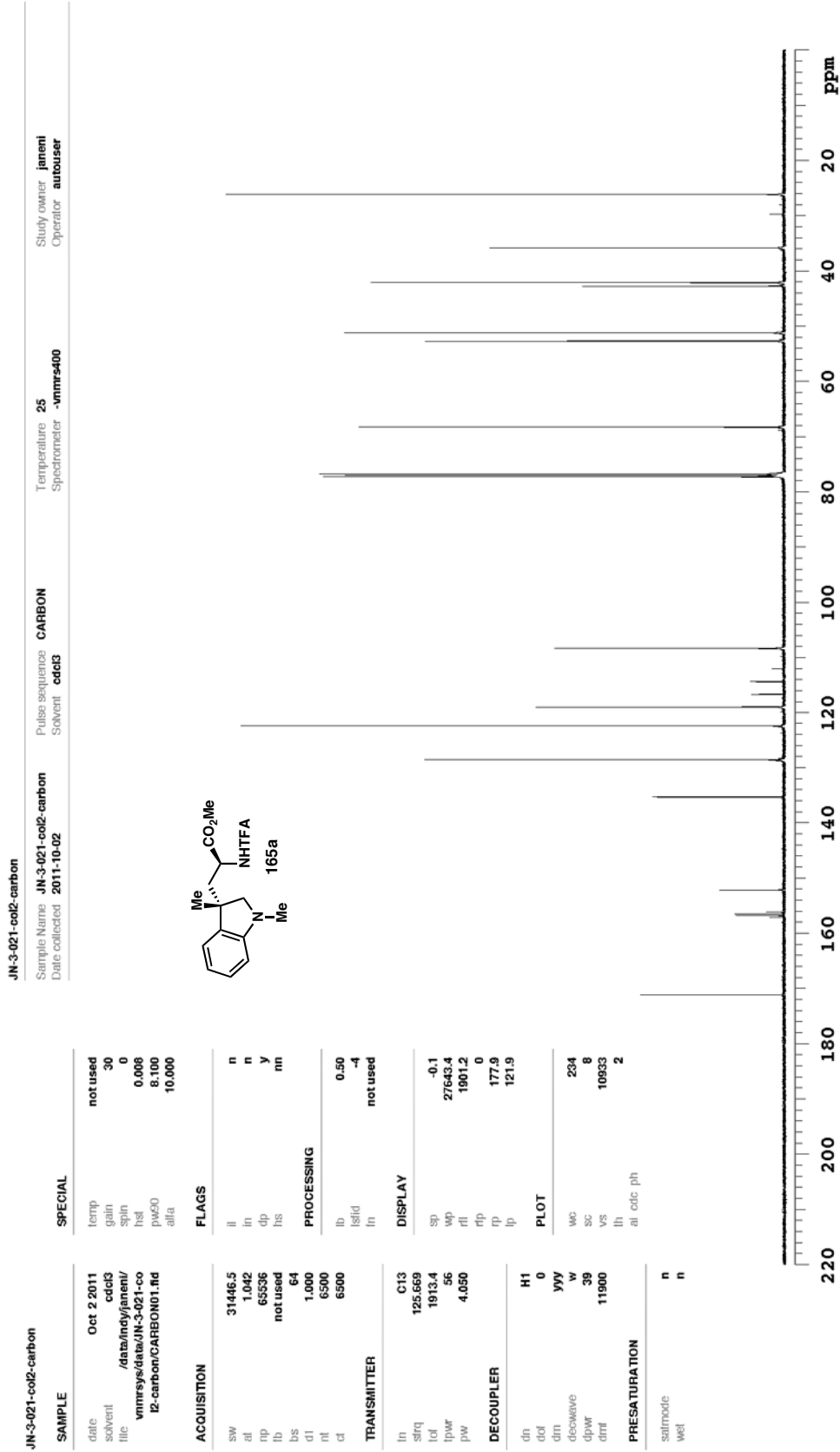


Sample Name:
JN-3-021-col2
Data Collected on:
indy.caltech.edu--inova500
Archive directory:
/home/janeni/vnmrsys/data
Sample directory:
JN-3-021-col2
File: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Oct 2 2011

Sample #17, Operator: Janeni
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 2.500 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7225125 MHz
DATA PROCESSING
Line broadening 0.2 Hz
Ft size 65536
Total time 0 min 56 sec



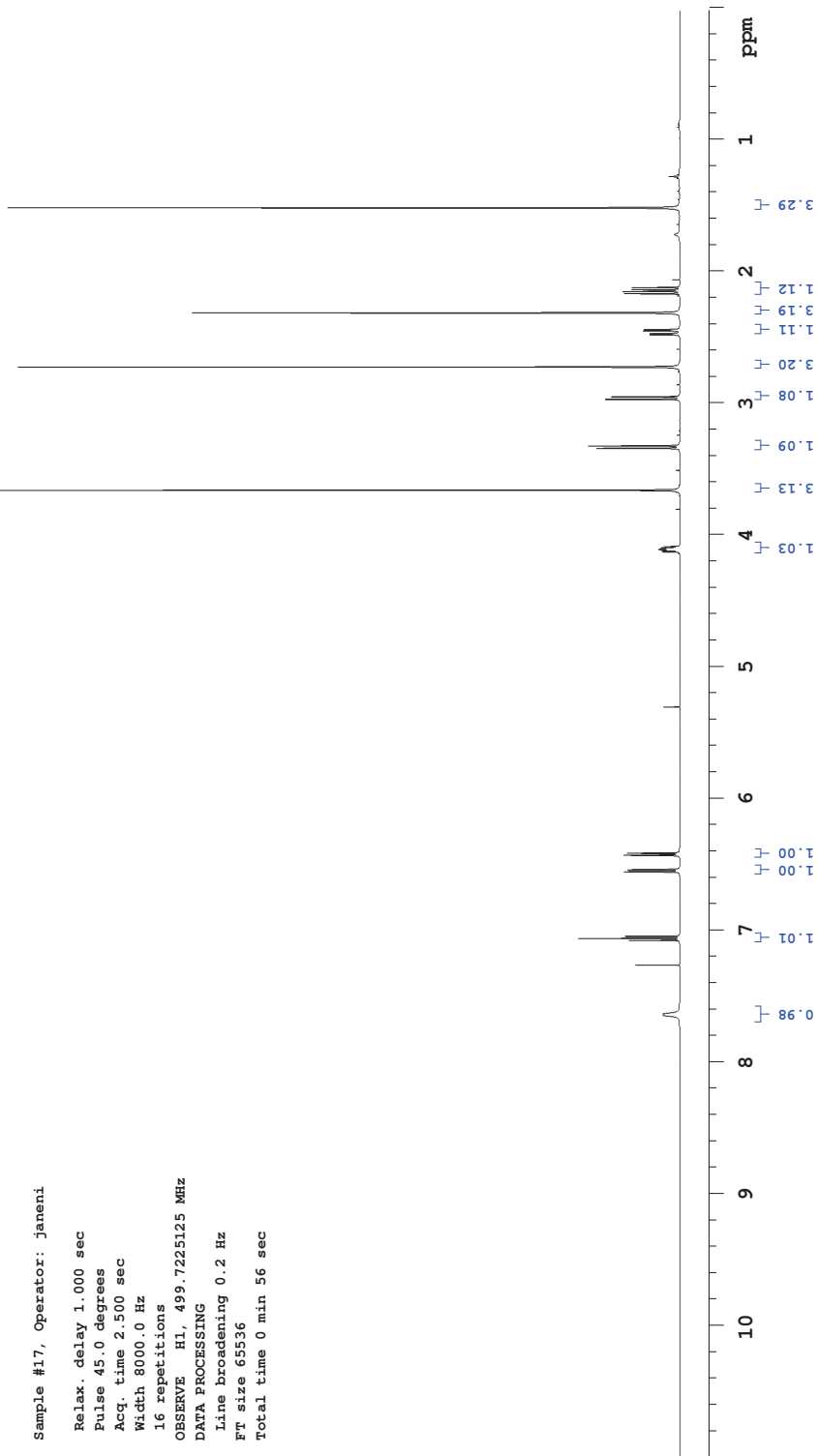
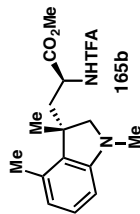


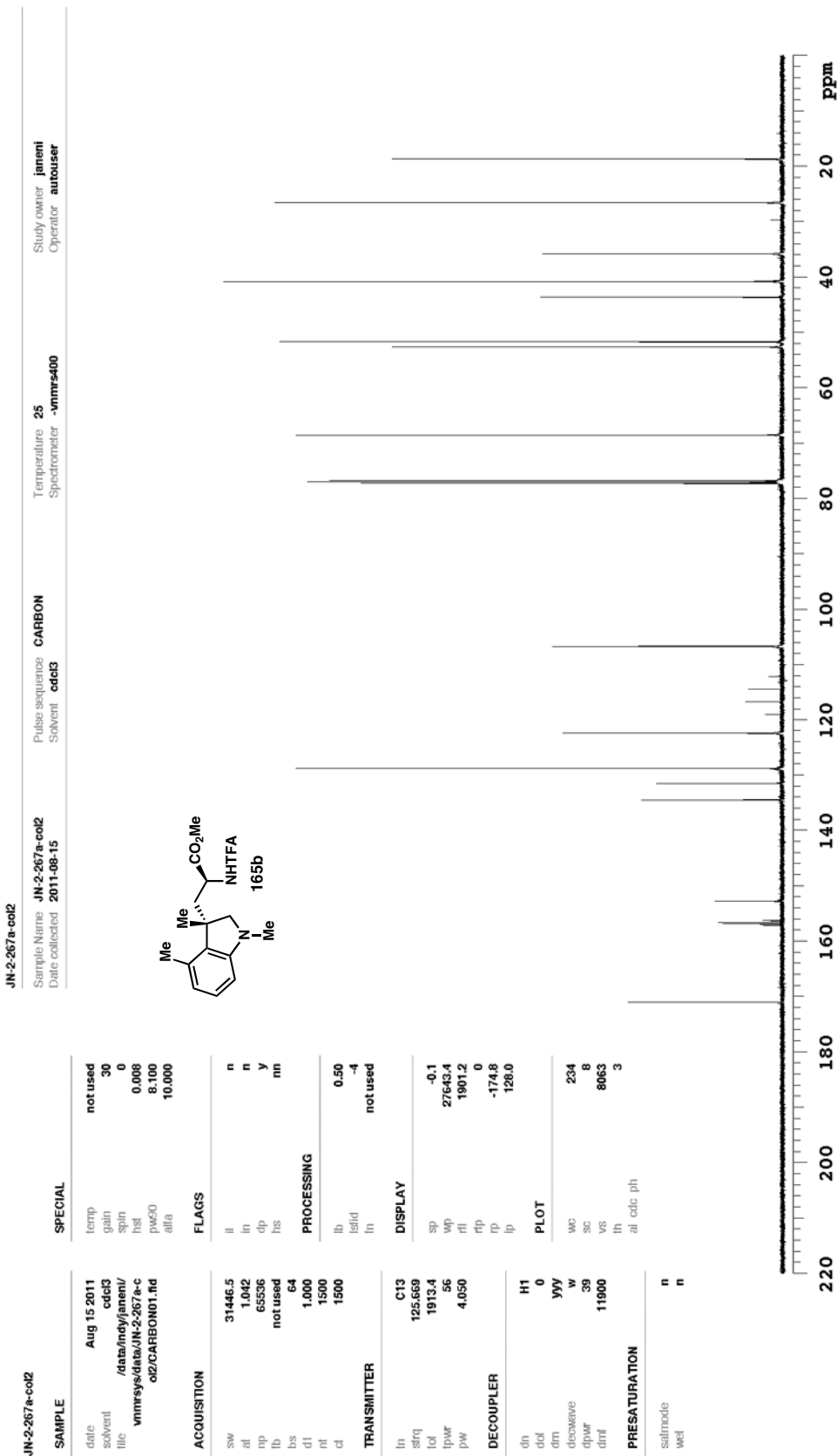
JN-2-267a-col2

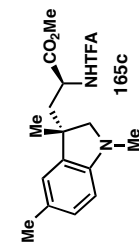
Sample Name:
 JN-2-267a-col2
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-2-267a-col2
 File: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Aug 15 2011

Sample #17, Operator: Janeni
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7225125 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 0 min 56 sec



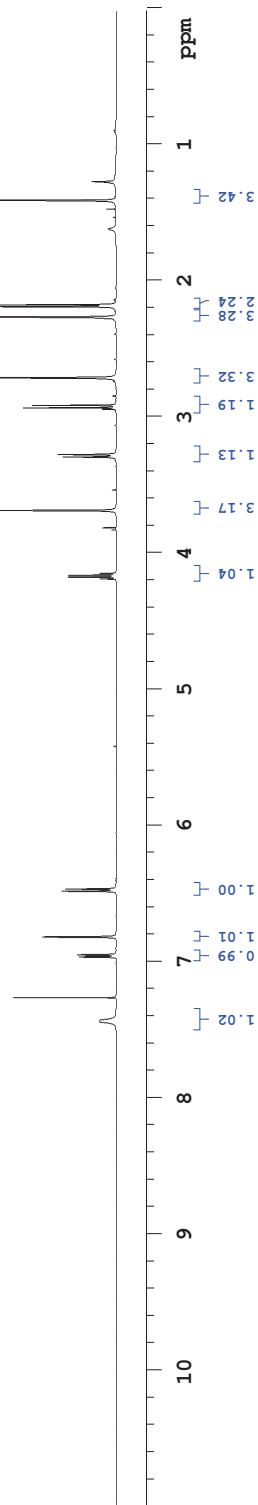


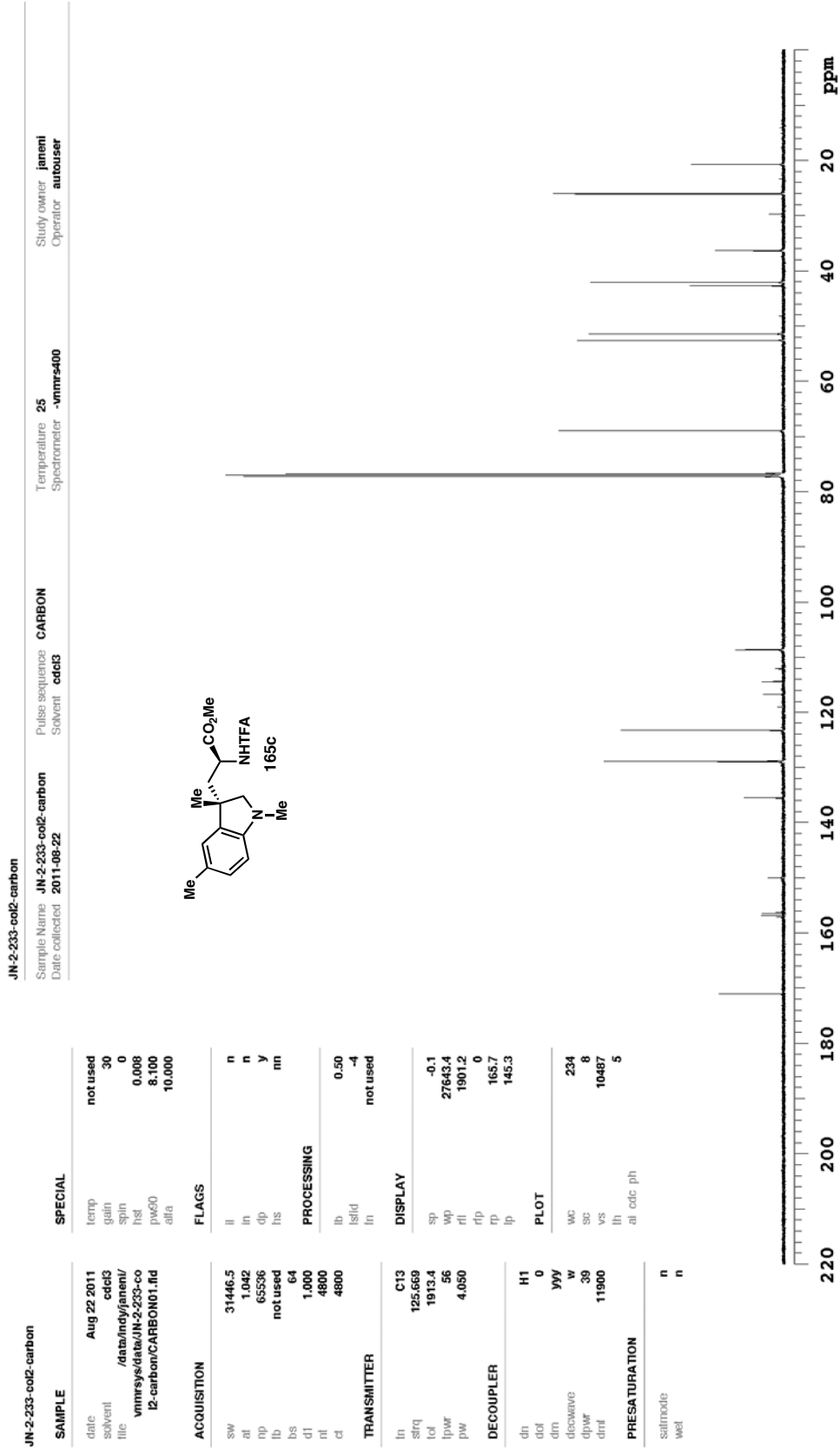


JN-2-233-col2
 Sample Name:
 JN-2-233-col2
 Data Collected on:
 indy.caltech.edu--inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-2-233-col2
 File: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Aug 21 2011

Sample #17, Operator: Janeni
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7225125 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 F1 size 65536
 Total time 0 min 56 sec



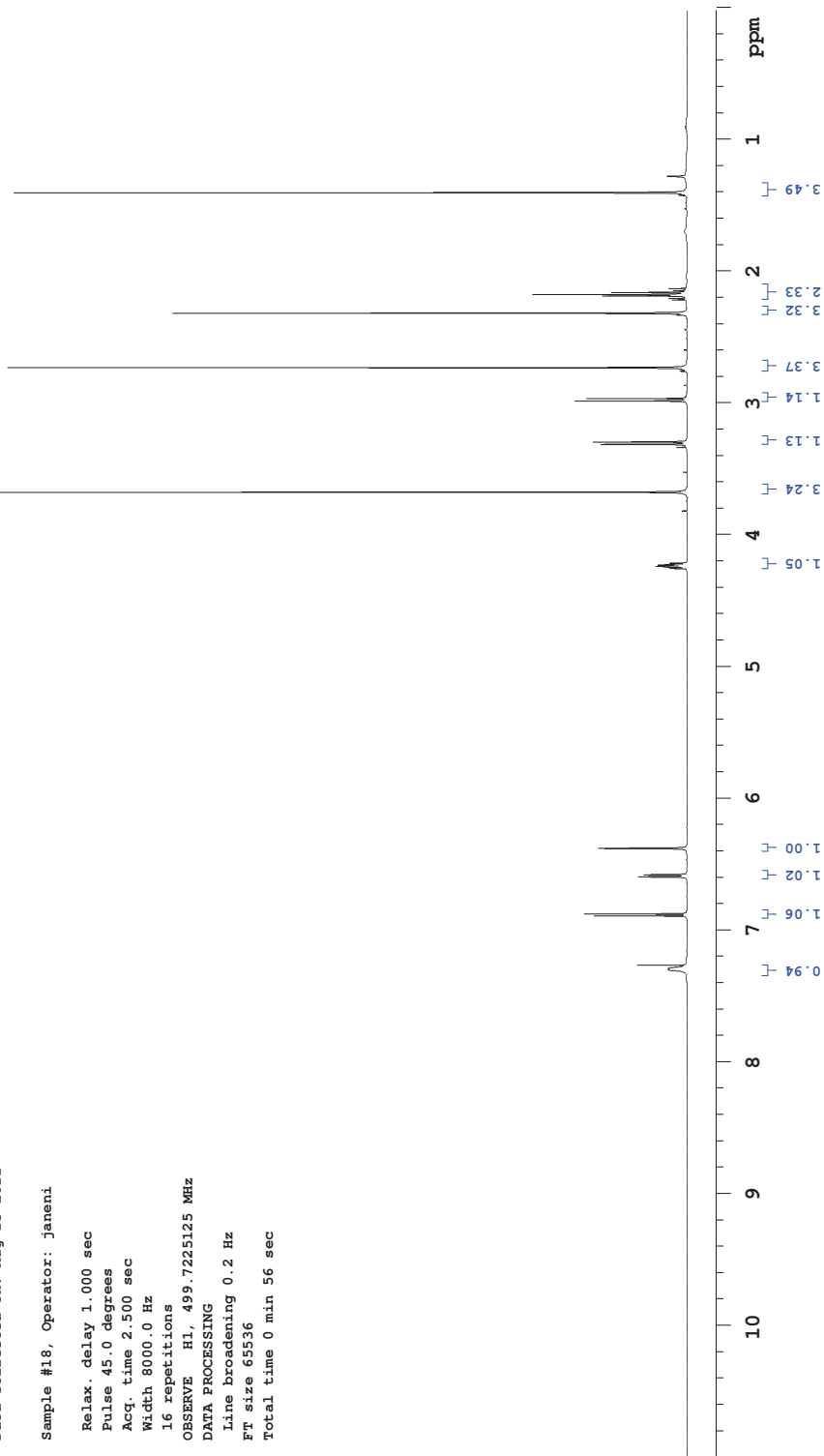
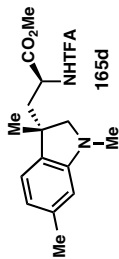


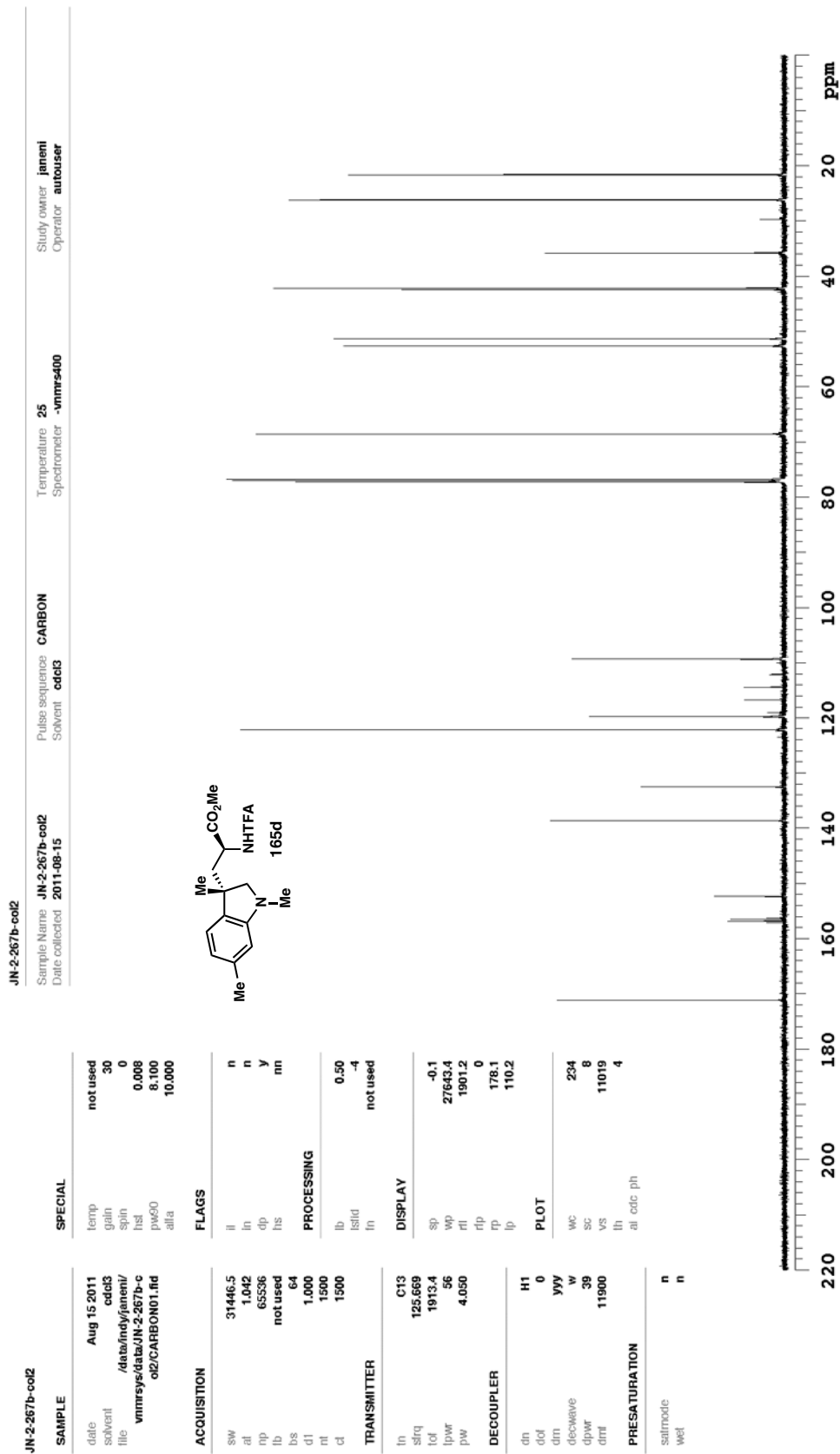
JN-2-267b-col2

Sample Name:
 JN-2-267b-col2
 Data Collected on:
 indy.caltech.edu--inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-2-267b-col2
 File: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Aug 15 2011

Sample #18, Operator: Janeni
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7225125 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 0 min 56 sec



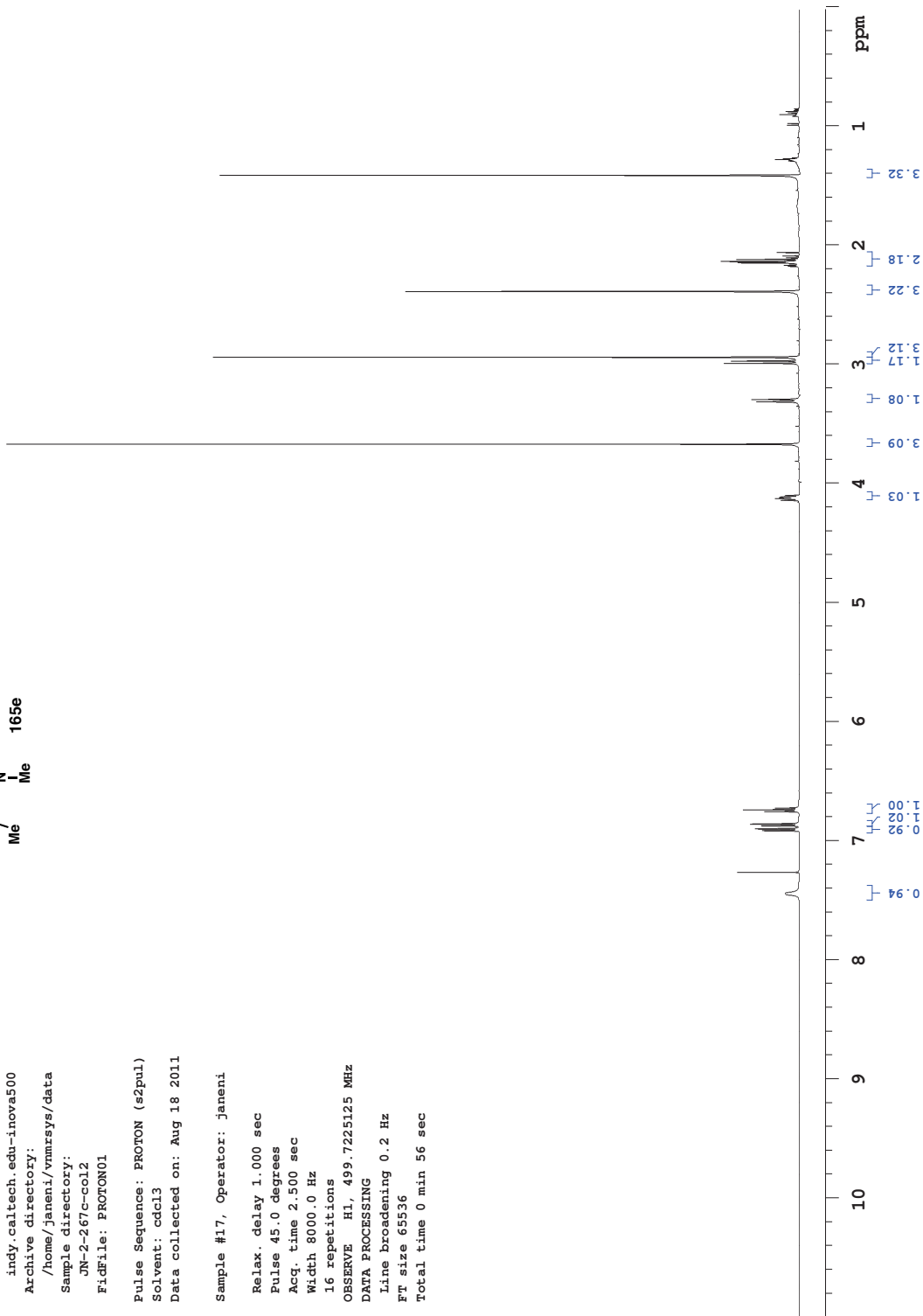
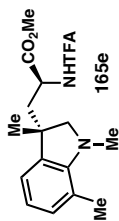


JN-2-267c-col2

Sample Name:
 JN-2-267c-col2
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-2-267c-col2
 File: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Aug 18 2011

Sample #17, Operator: Janeni
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7225125 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 0 min 56 sec

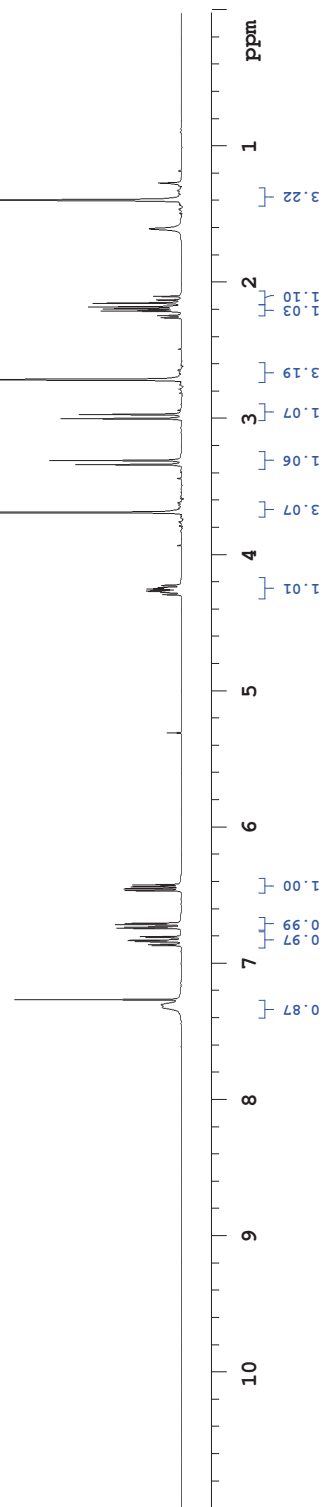
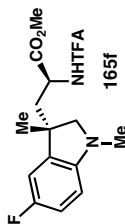


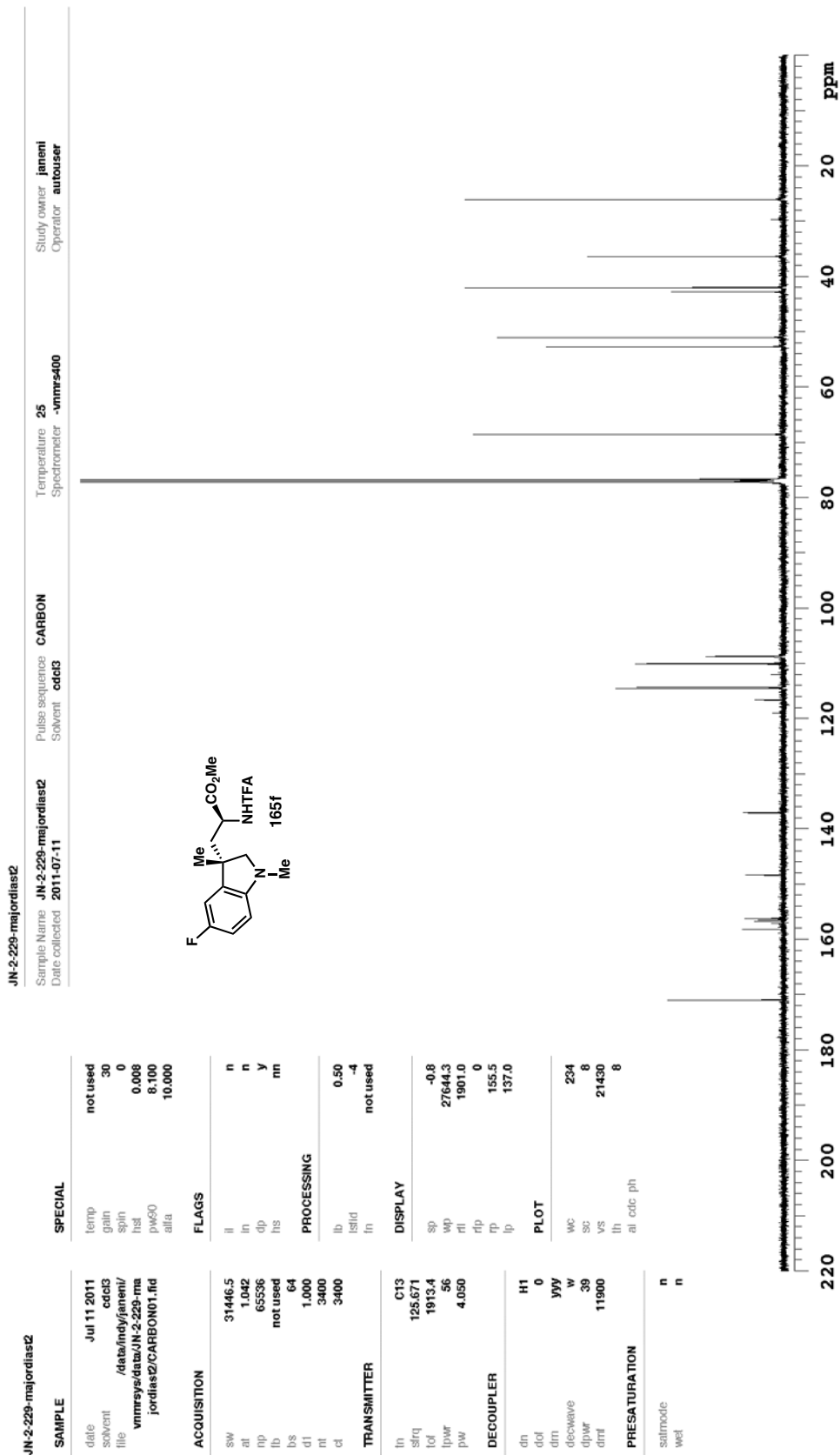
JN-2-229-pt1c

Sample Name:
 JN-2-229-pt1c
 Data Collected on:
 hg3.caltech.edu-mercury300
 Archive directory:
 /home/jni/vnmrsys/data
 Sample directory:
 JN-2-229-pt1c
 File: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jul 11 2011

Sample #17, Operator: jni
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 3.000 sec
 Width 4798.5 Hz
 16 repetitions
 OBSERVE H1, 300.0862585 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 32768
 Total time 1 min 6 sec





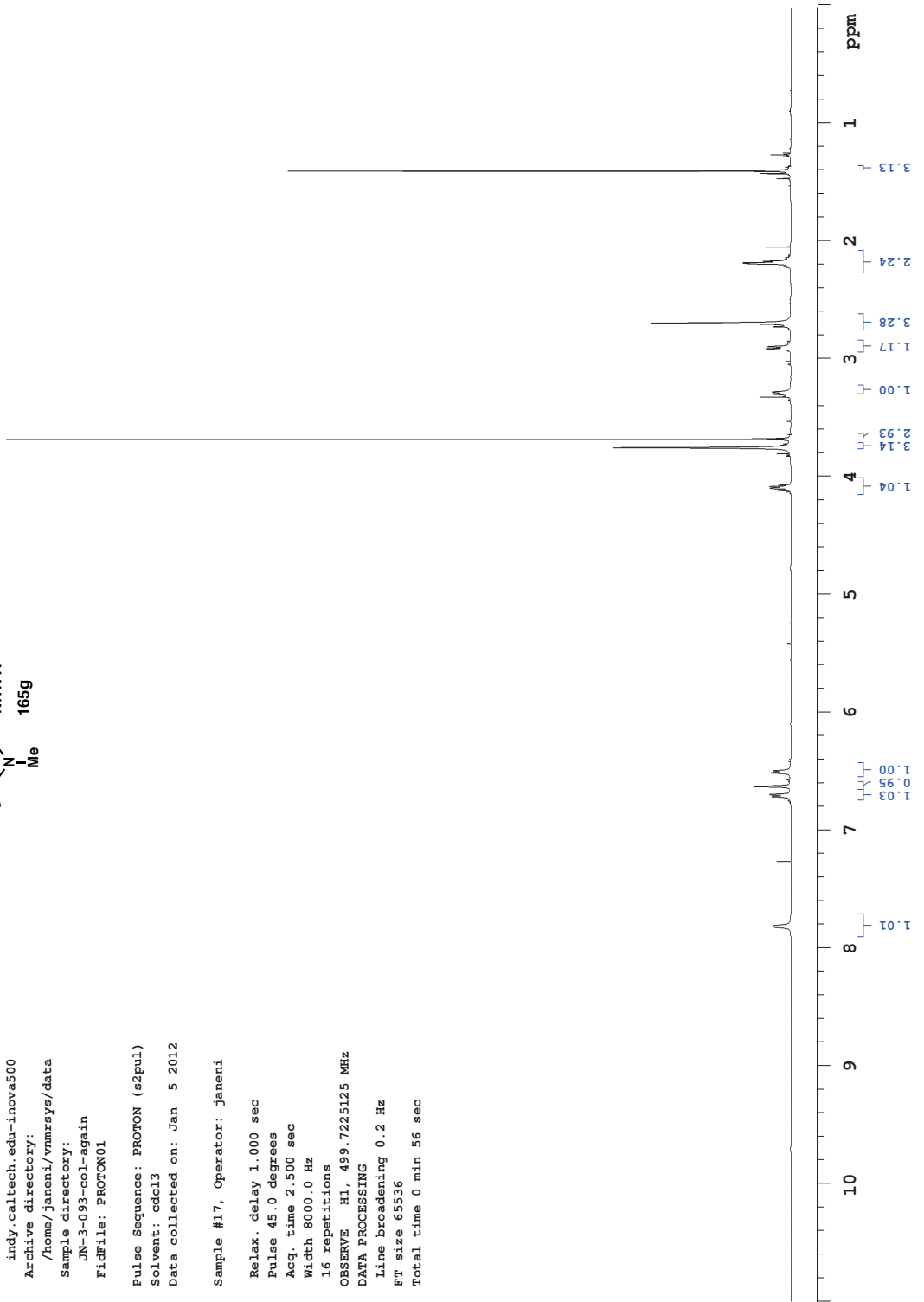
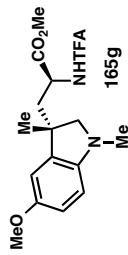
JN-3-093-col-again

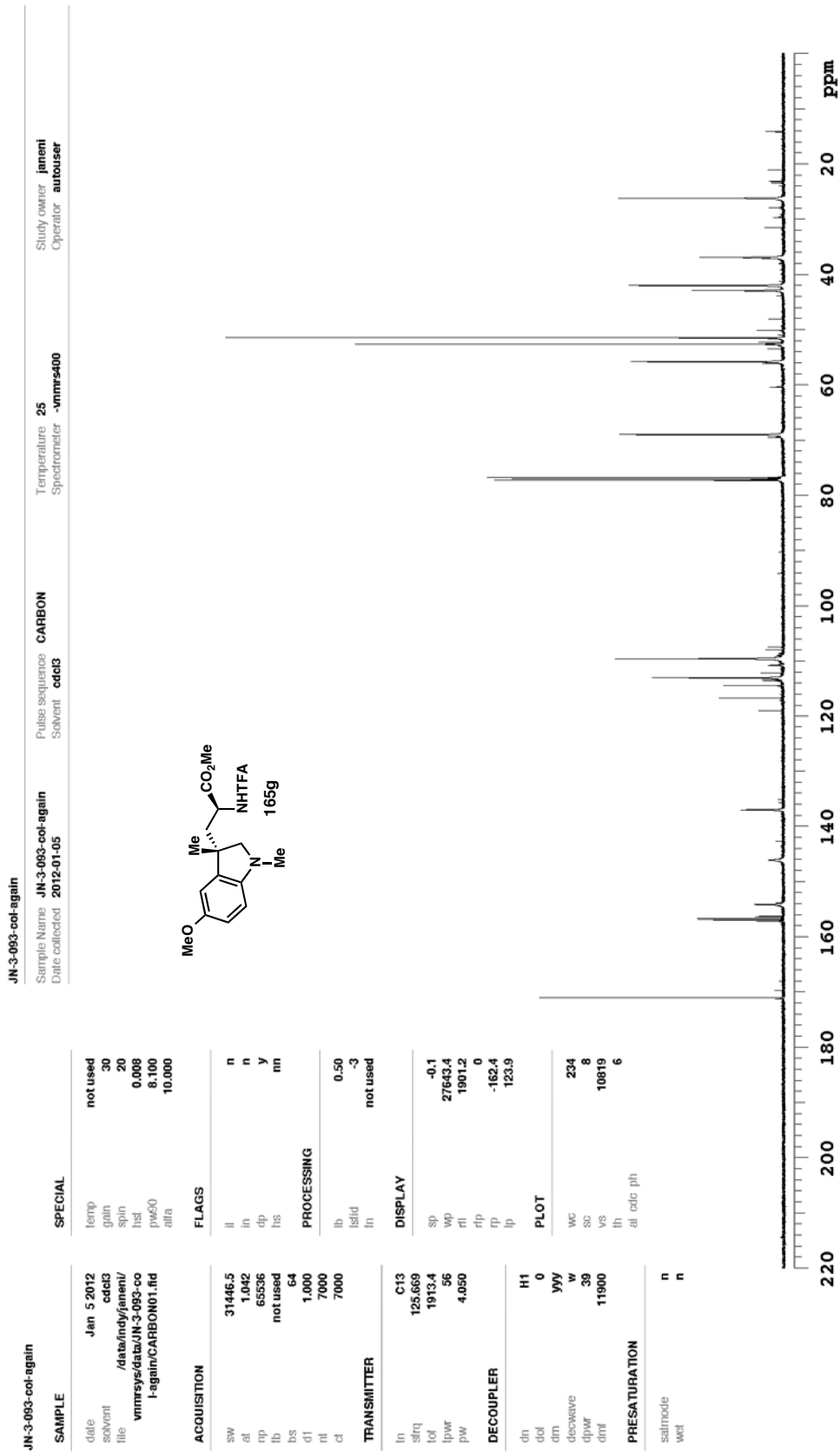
Sample Name:
 JN-3-093-col-again
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-3-093-col-again
 FiFile: PROTON01

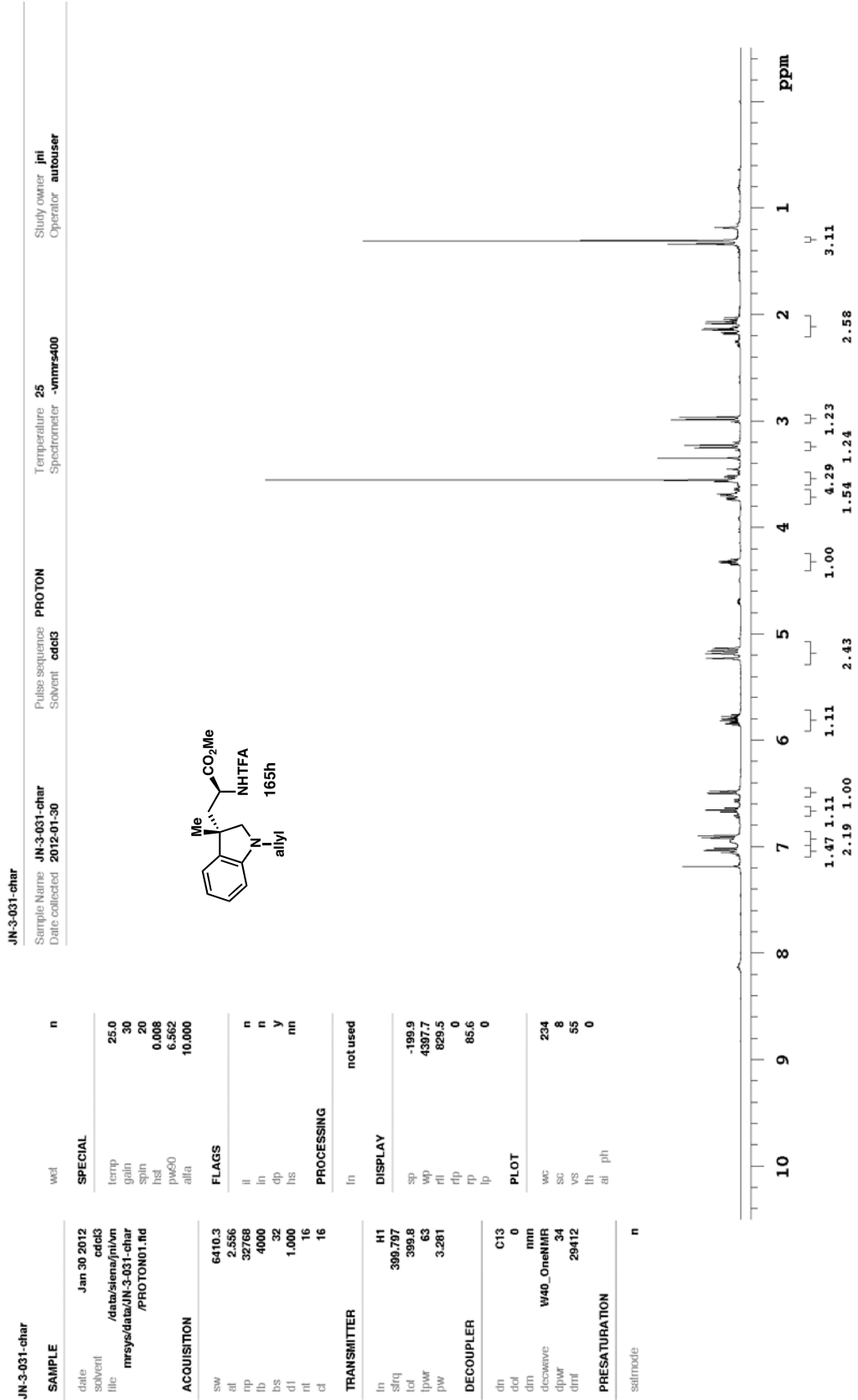
Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jan 5 2012

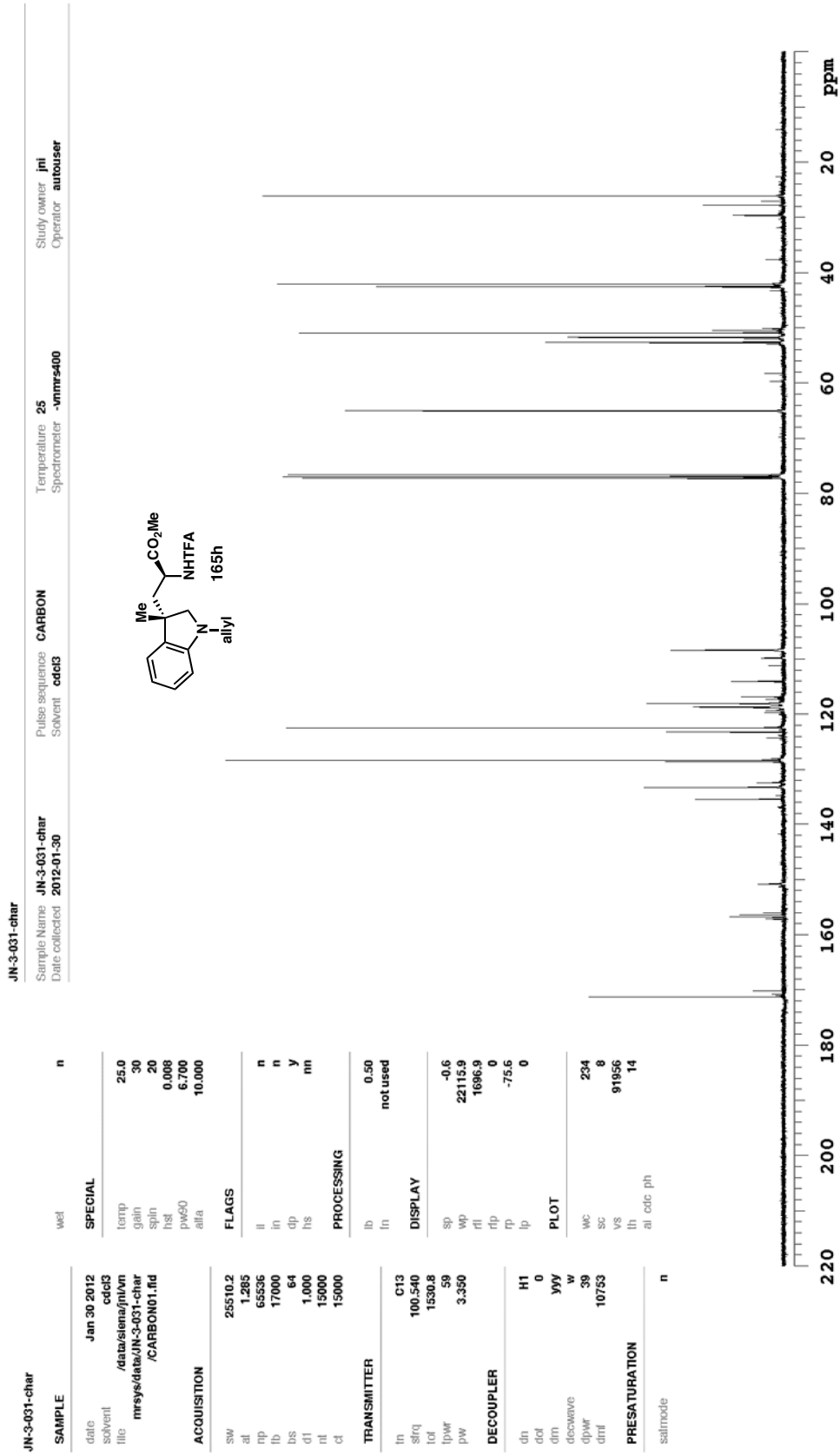
Sample #17, Operator: Janeni

Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7225125 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 0 min 56 sec







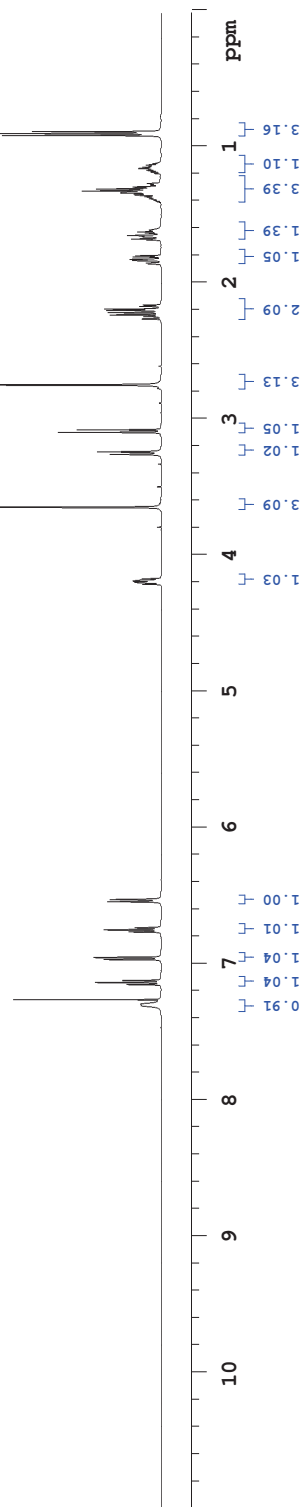
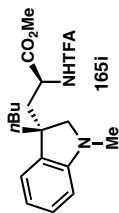


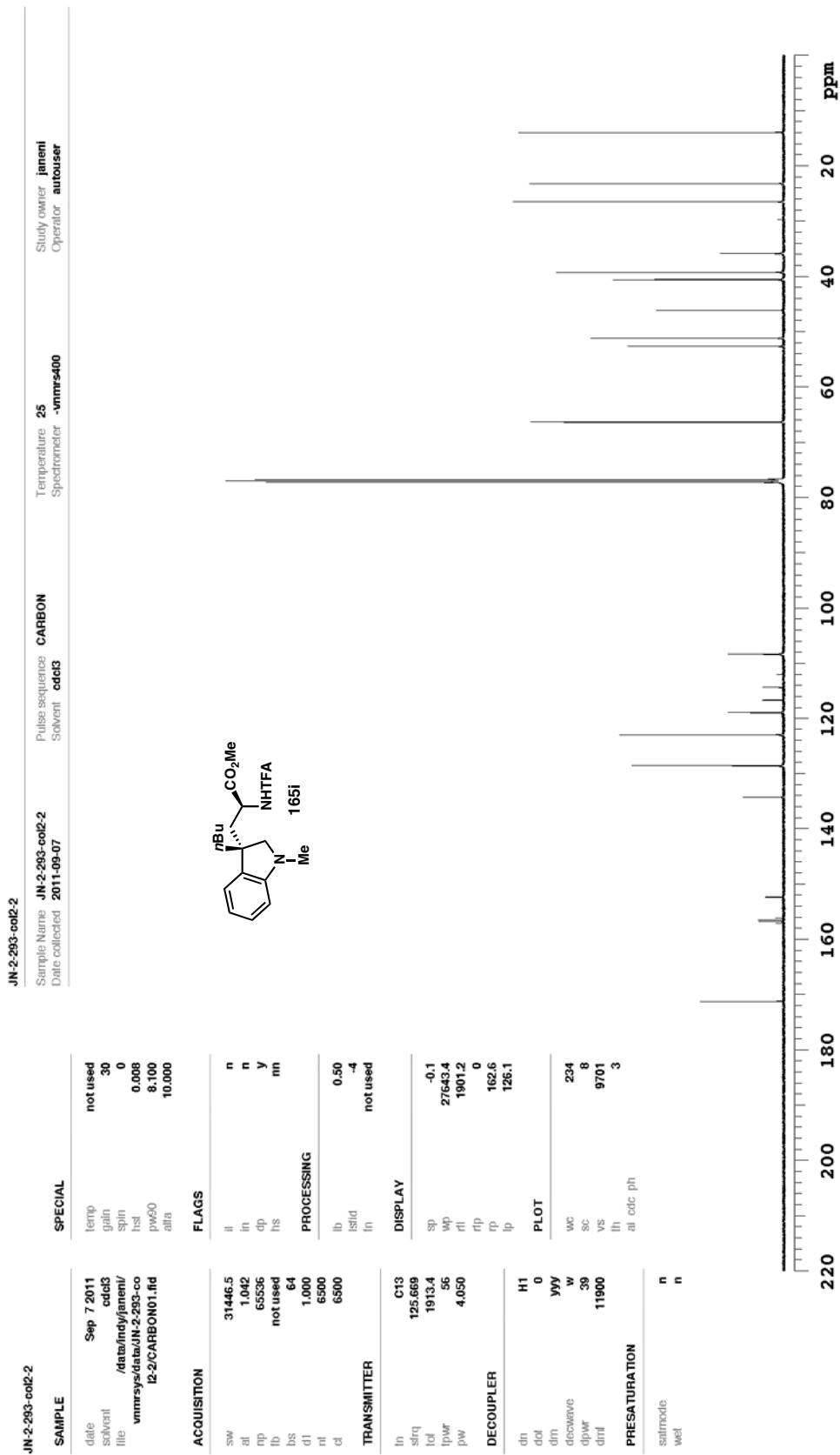
JN-2-293-col2-2

Sample Name:
 JN-2-293-col2-2
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-2-293-col2-2
 File: PROTON01

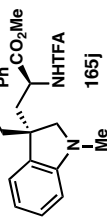
Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Sep 7 2011

Sample #17, Operator: Janeni
 Relax. delay 5.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7225125 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 F1 size 65536
 Total time 2 min 0 sec





JN-2-295-col2

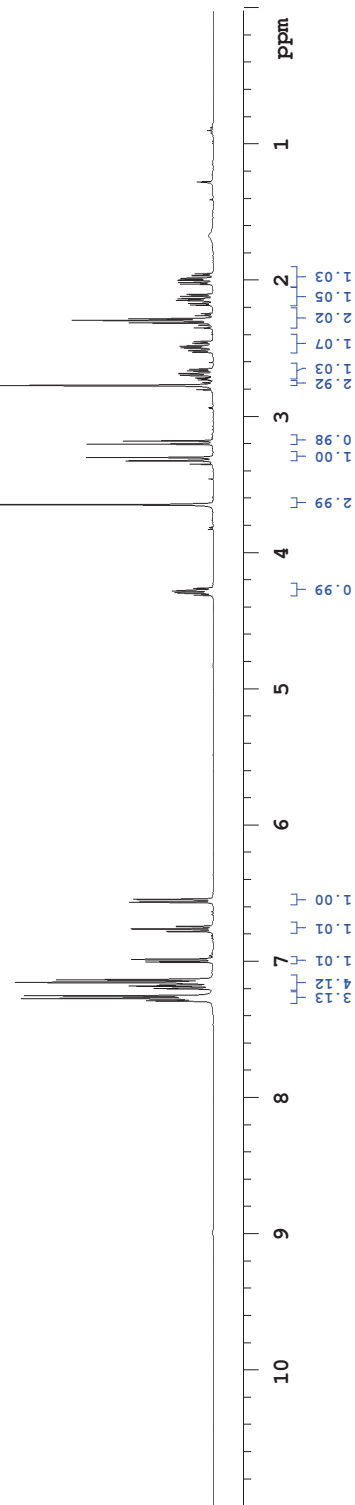


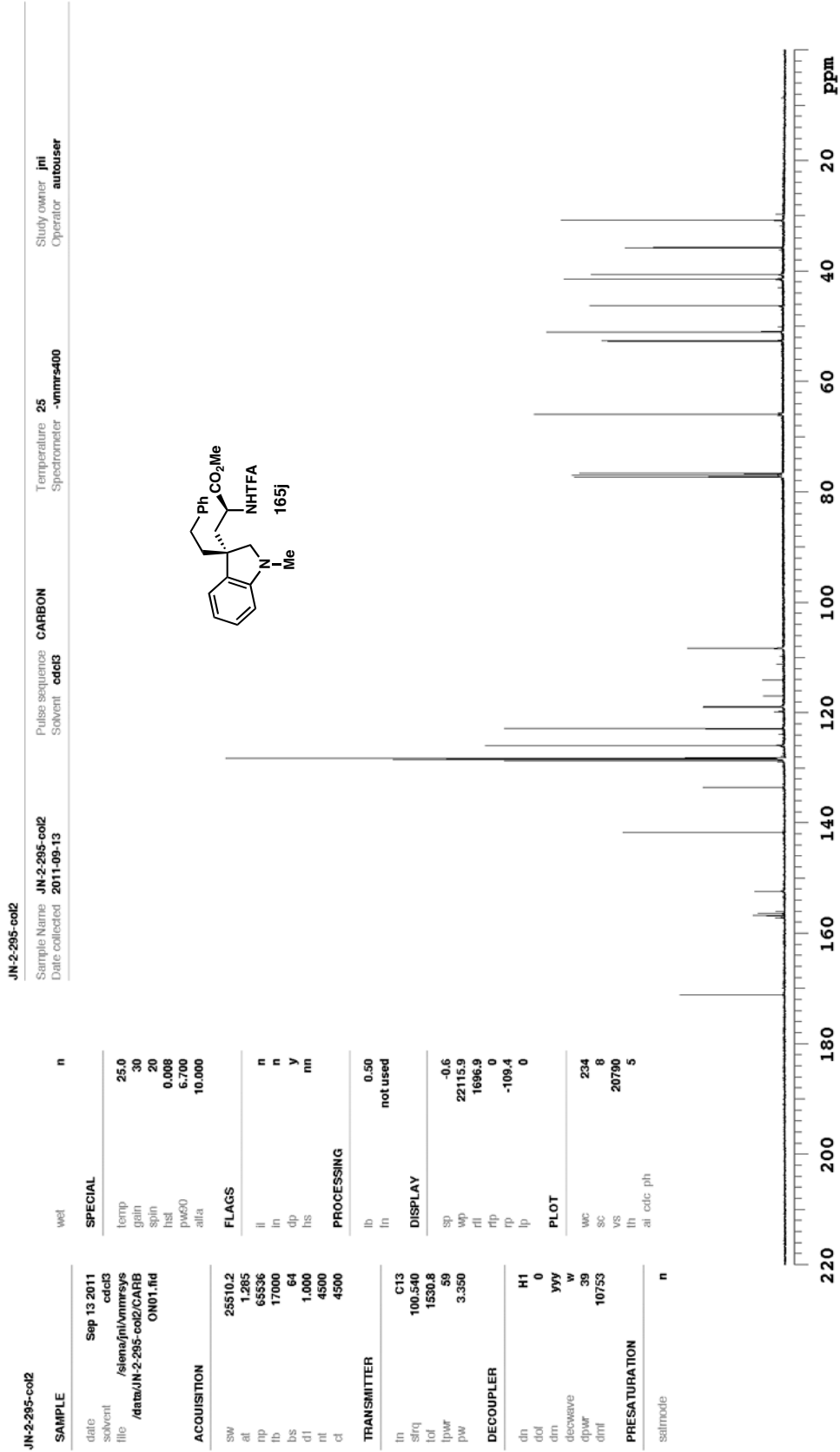
Sample Name:
JN-2-295-col2
Data Collected on:
siena.caltech.edu-vmrs400
Archive directory:
/home/jni/vmrsys/data
Sample directory:
JN-2-295-col2
File: PROTON01

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Sep 13 2011

Temp. 25.0 C / 298.1 K
Sample #5, Operator: jni

Relax. delay 5.000 sec
Pulse 45.0 degrees
Acq. time 2.556 sec
Width 6410.3 Hz
16 repetitions
OBSERVE H1, 399.7948025 MHz
DATA PROCESSING
Ft size 32768
Total time 2 min 1 sec





JN-3-091-col-again

Sample Name:
 JN-3-091-col-again
 Data Collected on:
 indy.caltech.edu-inova500
 Archive directory:
 /home/janeni/vnmrsys/data
 Sample directory:
 JN-3-091-col-again
 File: PROTON01

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Jan 3 2012

Sample #17, Operator: Janeni
 Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 2.500 sec
 Width 8000.0 Hz
 16 repetitions
 OBSERVE H1, 499.7225125 MHz
 DATA PROCESSING
 Line broadening 0.2 Hz
 FT size 65536
 Total time 0 min 56 sec

