

Supporting Information

Asymmetric Synthesis of 1,2,9,9a-Tetrahydrocyclopropa[*c*]benzo[*e*]indol-4-one (CBI)

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General: THF was freshly distilled from sodium benzophenone ketyl. All reactions were performed in oven-dried glassware under an Argon atmosphere. Evaporation and concentration in vacuo was performed at 20 °C and ca. 760 mm Hg. Further drying of the new compounds was carried out at ca. 5 millibar. NMR (^1H or ^{13}C): residual solvent peaks were used as an internal reference. Coupling constants (J) (H,H) are given in Hz. Coupling patterns are designated as singlet (s), doublet (d), triplet (t), quadruplet (q), multiplet (m), or broad signal (br). High resolution mass spectral data were acquired on a LC/MSD-TOF and the detected masses are given as m/z with M representing the molecular ion.

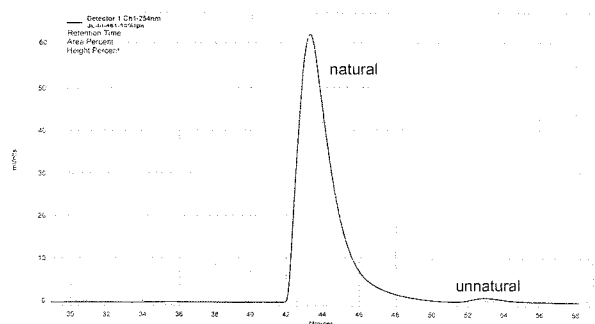
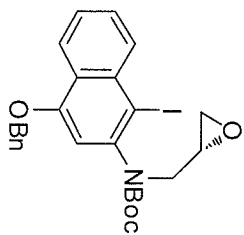


Figure 3. HPLC trace of **8** (99% ee; Chiralcel OD; 10% *i*-PrOH/hexanes; 7 mL/min).

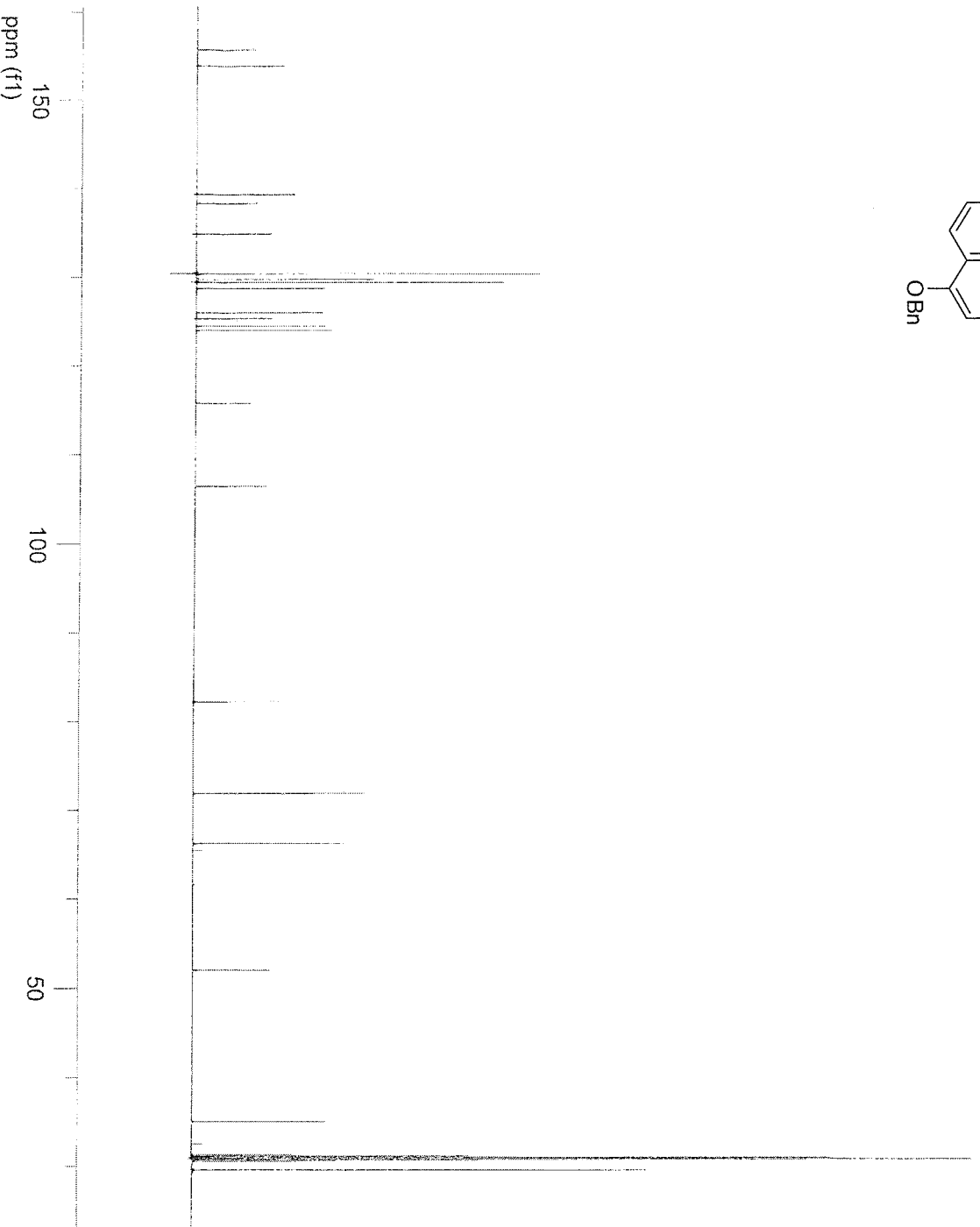
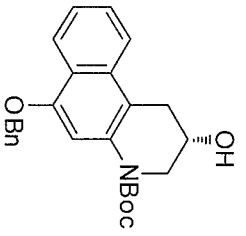
Compound 5
Acetone-d6
150 MHz



Spectrum Title:
C-13 Routine 1D, DCH (

Frequency (MHz):
(f1) 150.918
Original Points Count:
(f1) 32768
Actual Points Count:
(f1) 65536
Acquisition Time (sec):
(f1) 0.8716
Spectral Width (ppm):
(f1) 249.102
Pulse Program:
ZPG45
Temperature:
288.3
Number of Scans:
57

Compound 6
Acetone-d6
150 MHz

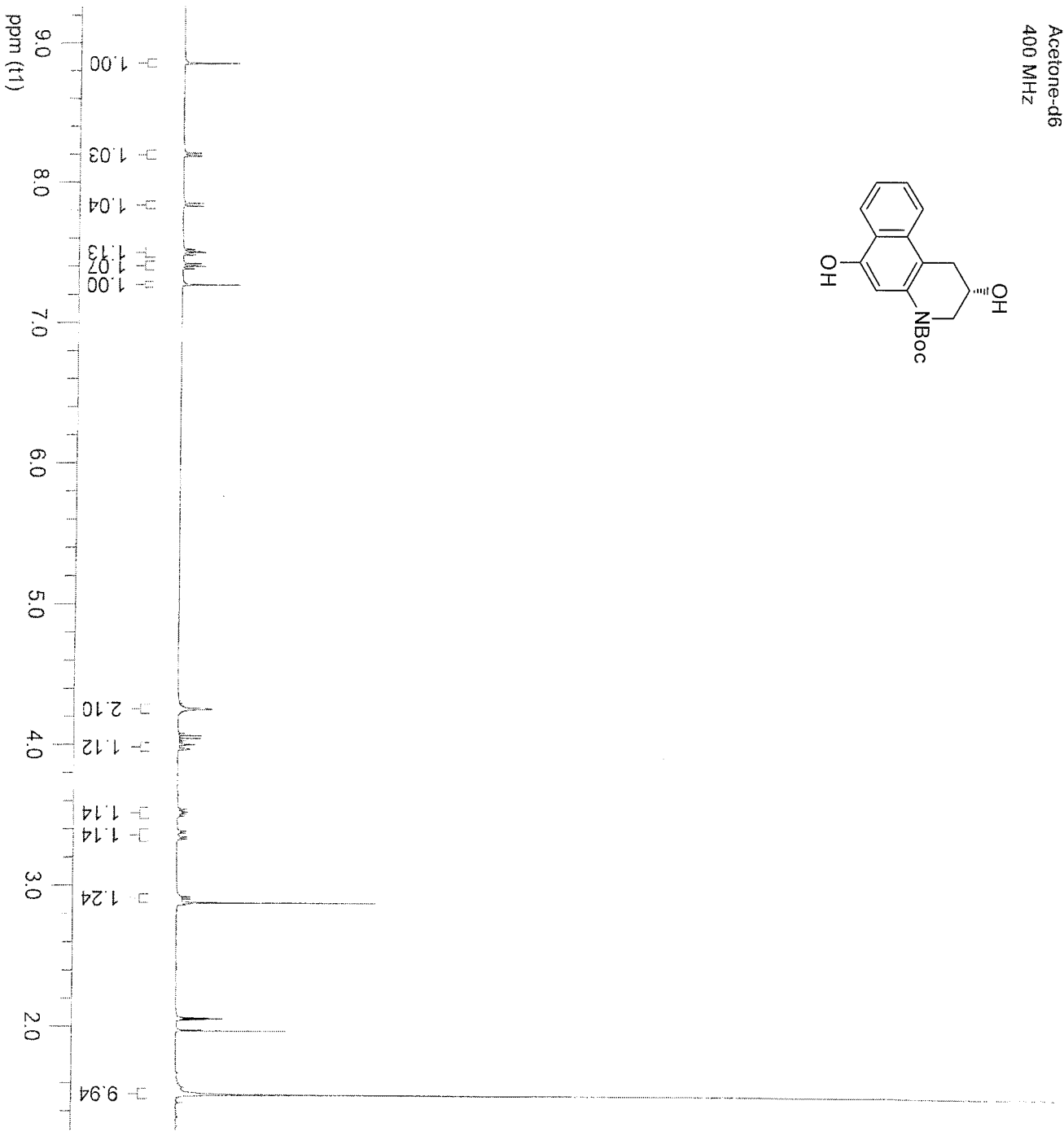
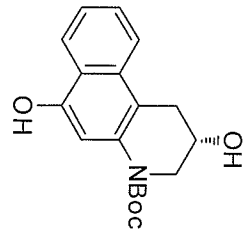


Spectrum Title:
C-13 Routine 1D, DCH

Frequency (MHz):
(f1) 150.918
Original Points Count:
(f1) 65536
Actual Points Count:
(f1) 65536
Acquisition Time (sec)
(f1) 1.7433
Spectral Width (ppm):
(f1) 249.102
Pulse Program:
ZGPG45
Temperature:
298
Number of Scans:
405

96

Compound 7
Acetone-d6
400 MHz



Spectrum Title:
H-1 Routine 1D experim

Frequency (MHz):
(f1) 400.122

Original Points Count:
(f1) 16384

Actual Points Count:
(f1) 32768

Acquisition Time (sec):
(f1) 3.4166

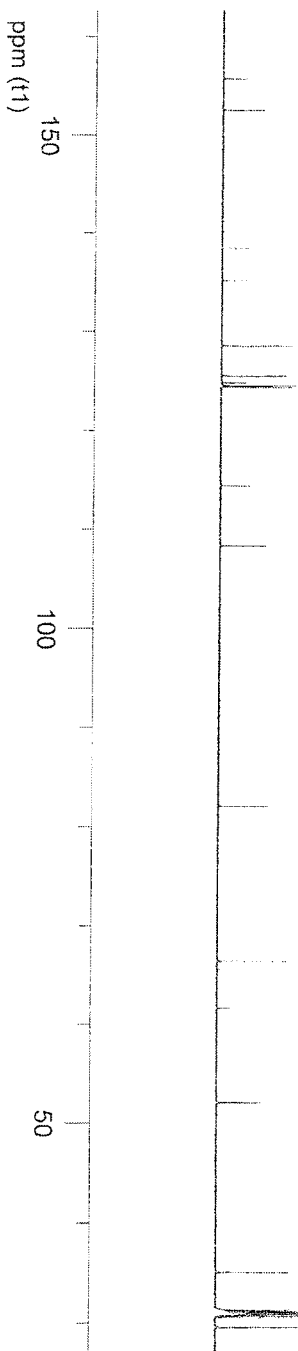
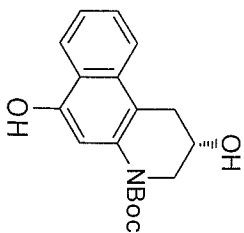
Spectral Width (ppm):
(f1) 11.985

Pulse Program:
ZG30

Temperature:
298.5

Number of Scans:
10

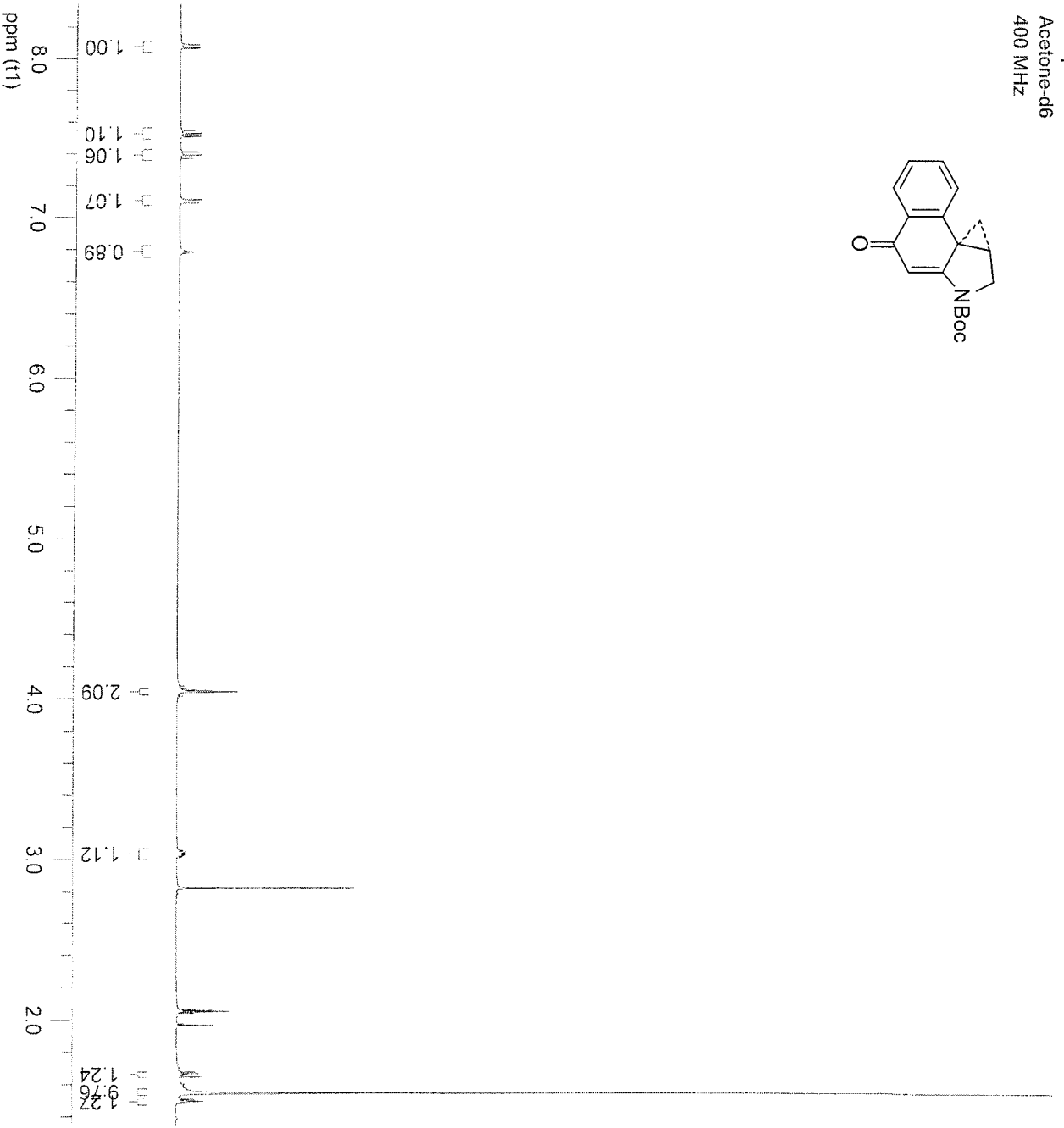
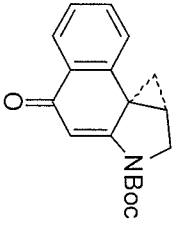
Compound 7
Acetone-d6
150 MHz



Spectrum Title:
C-13 Routine 1D, DCH Cryol

Frequency (MHz):
(f1) 150.918
Original Points Count:
(f1) 32768
Actual Points Count:
(f1) 65536
Acquisition Time (sec):
(f1) 0.8716
Spectral Width (ppm):
(f1) 249.102
Pulse Program:
ZPGPG45
Temperature:
298
Number of Scans:
81

Compound 8
Acetone-d6
400 MHz



Spectrum Title:
H-1 Routine 1D experiment.

Frequency (MHz):

(f1) 400.122

Original Points Count:

(f1) 16384

Actual Points Count:

(f1) 32768

Acquisition Time (sec):

(f1) 3.4166

Spectral Width (ppm):

(f1) 11.985

Pulse Program:

ZG30

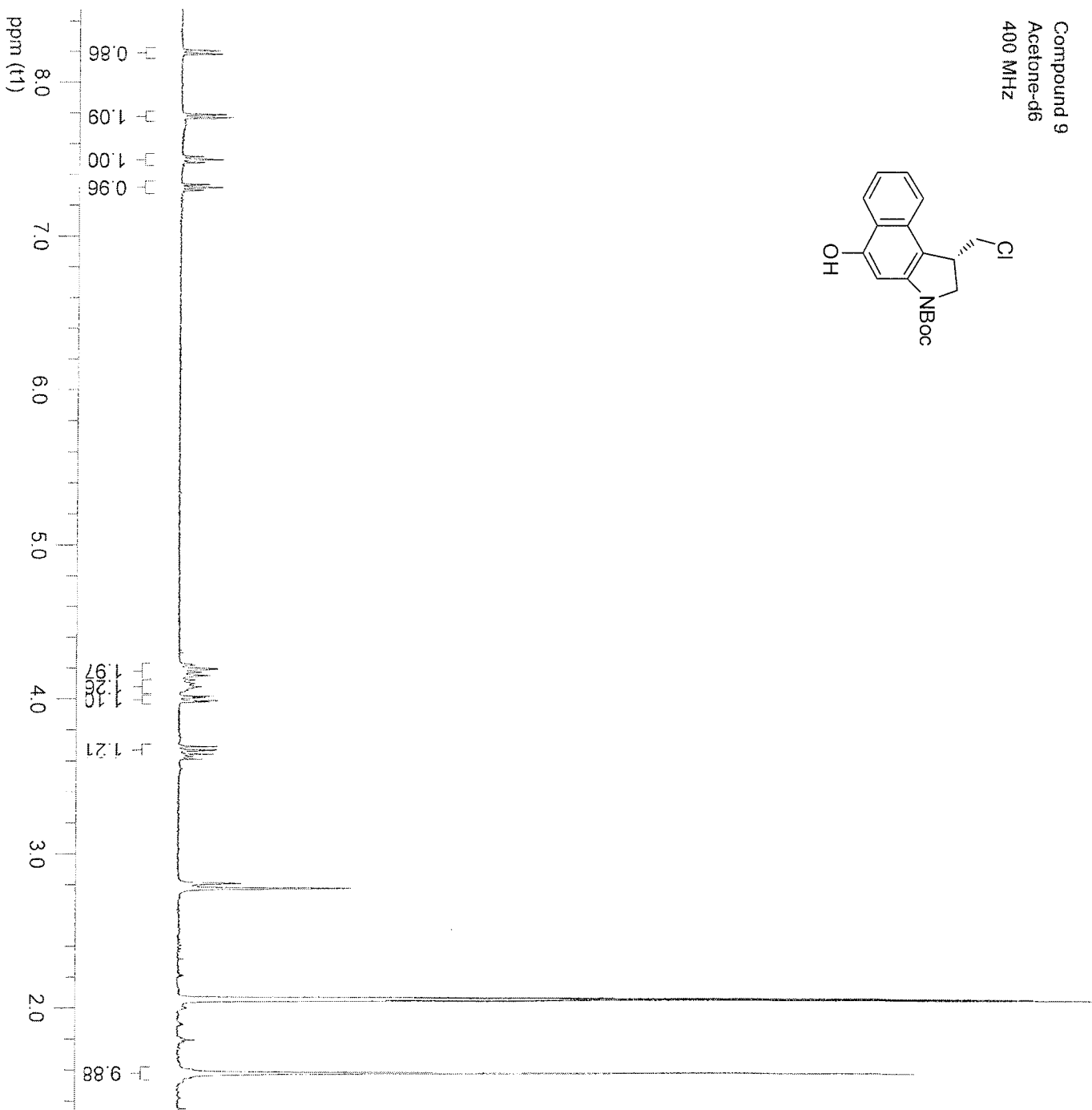
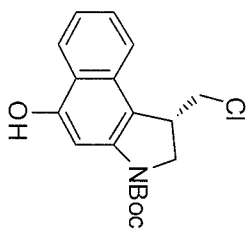
Temperature:

298.6

Number of Scans:

15

Compound 9
Acetone-d6
400 MHz



Document's Title:
JL-1-339_01.fid
Spectrum Title:
Std proton
Frequency (MHz):
(f1) 399.738
Original Points Count:
(f1) 13103
Actual Points Count:
(f1) 32768
Acquisition Time (sec):
(f1) 2.0487
Spectral Width (ppm):
(f1) 16.000
Pulse Program:
s2pul
Temperature:
25
Number of Scans:
32

