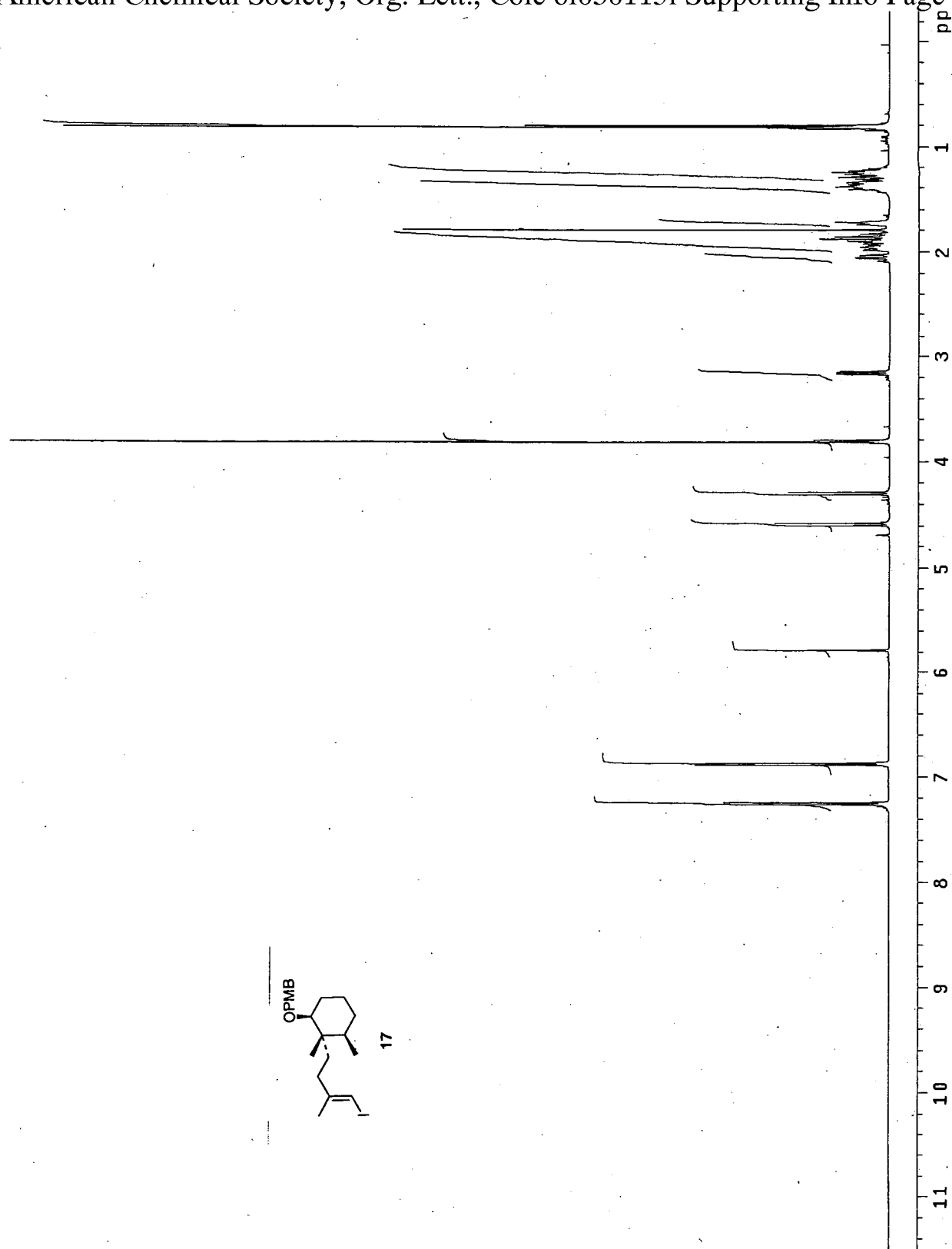
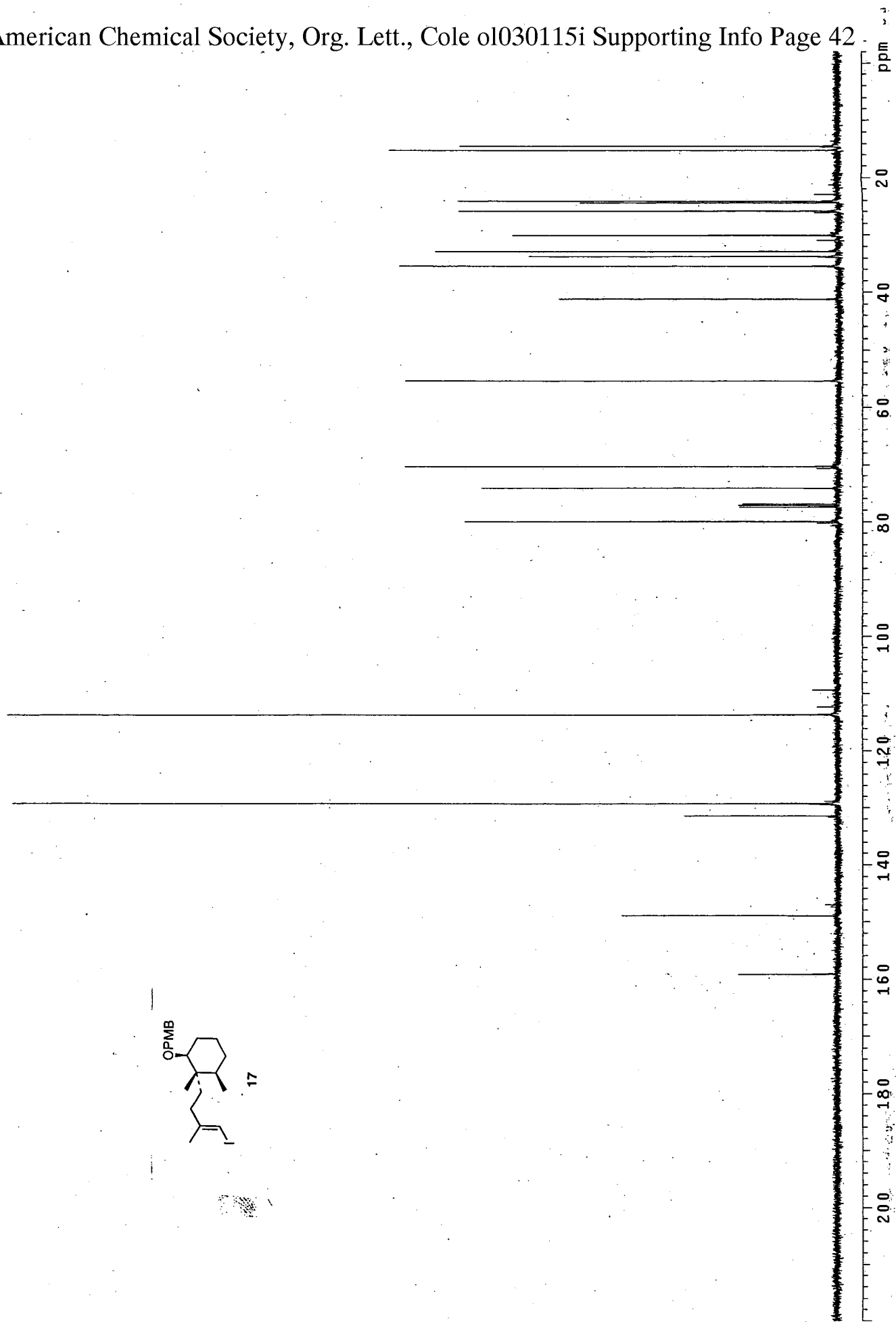
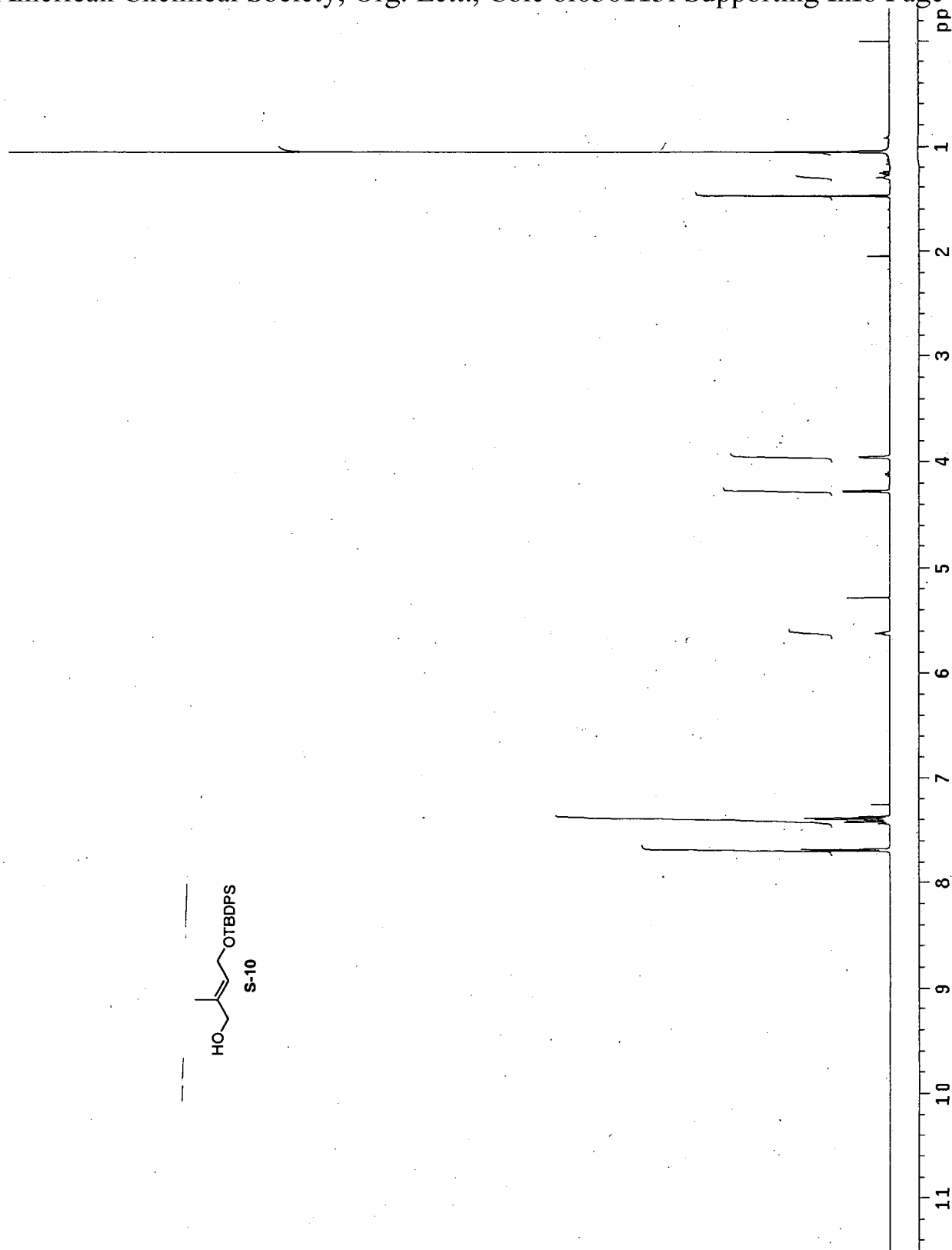
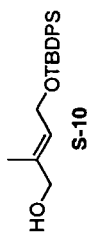
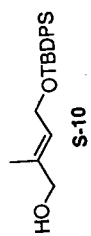
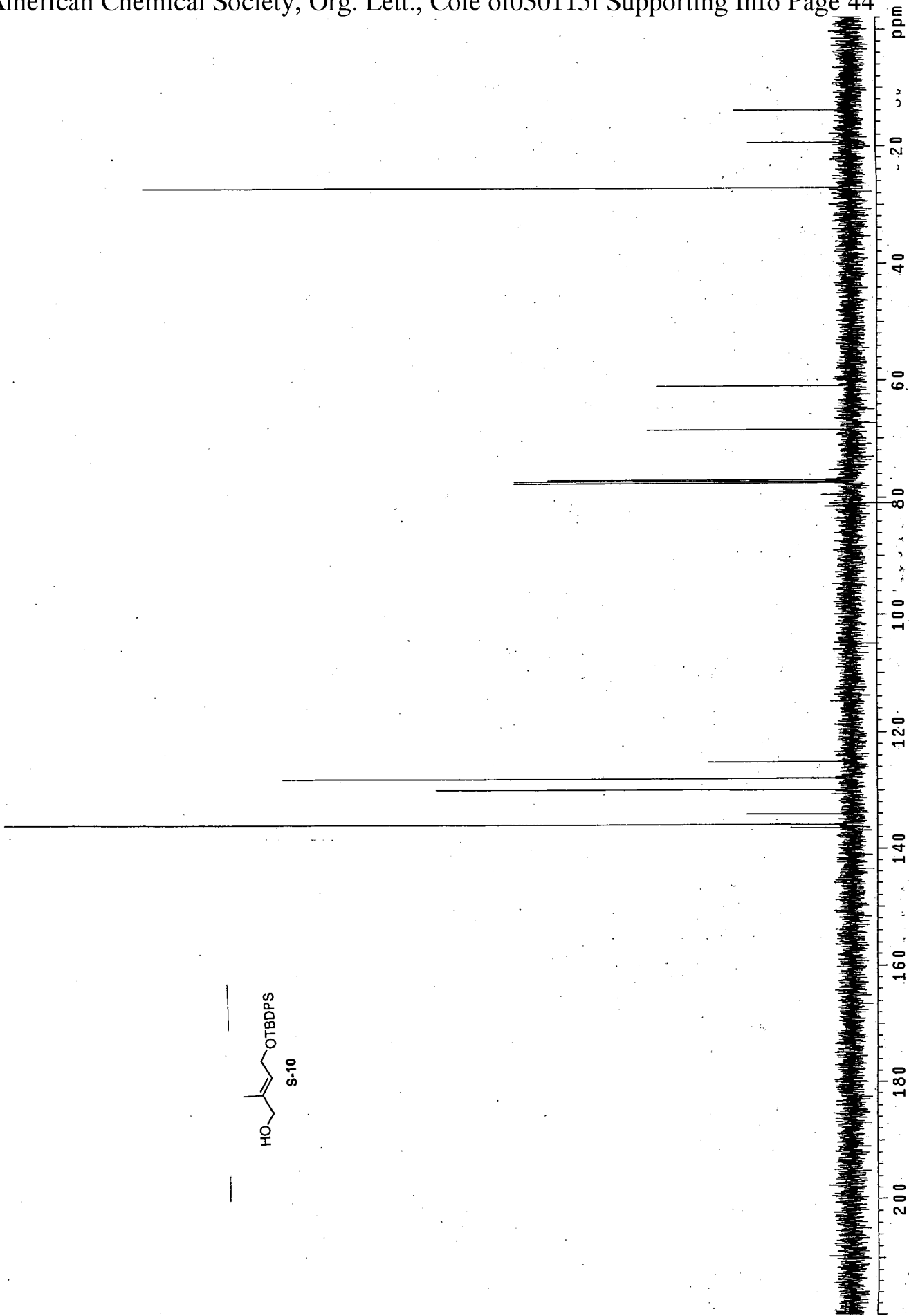
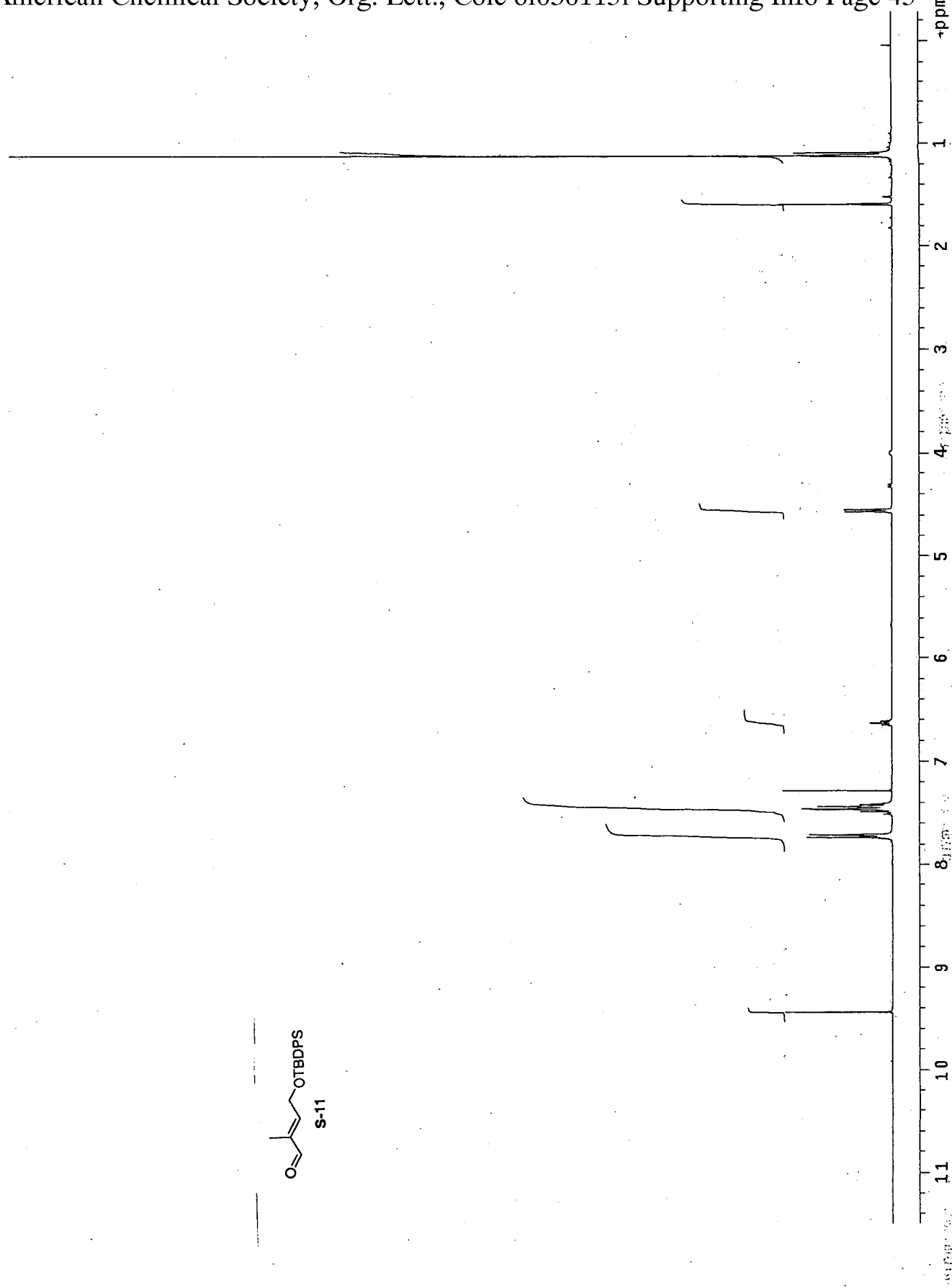
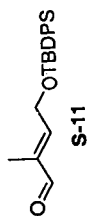
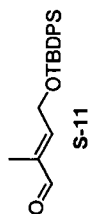
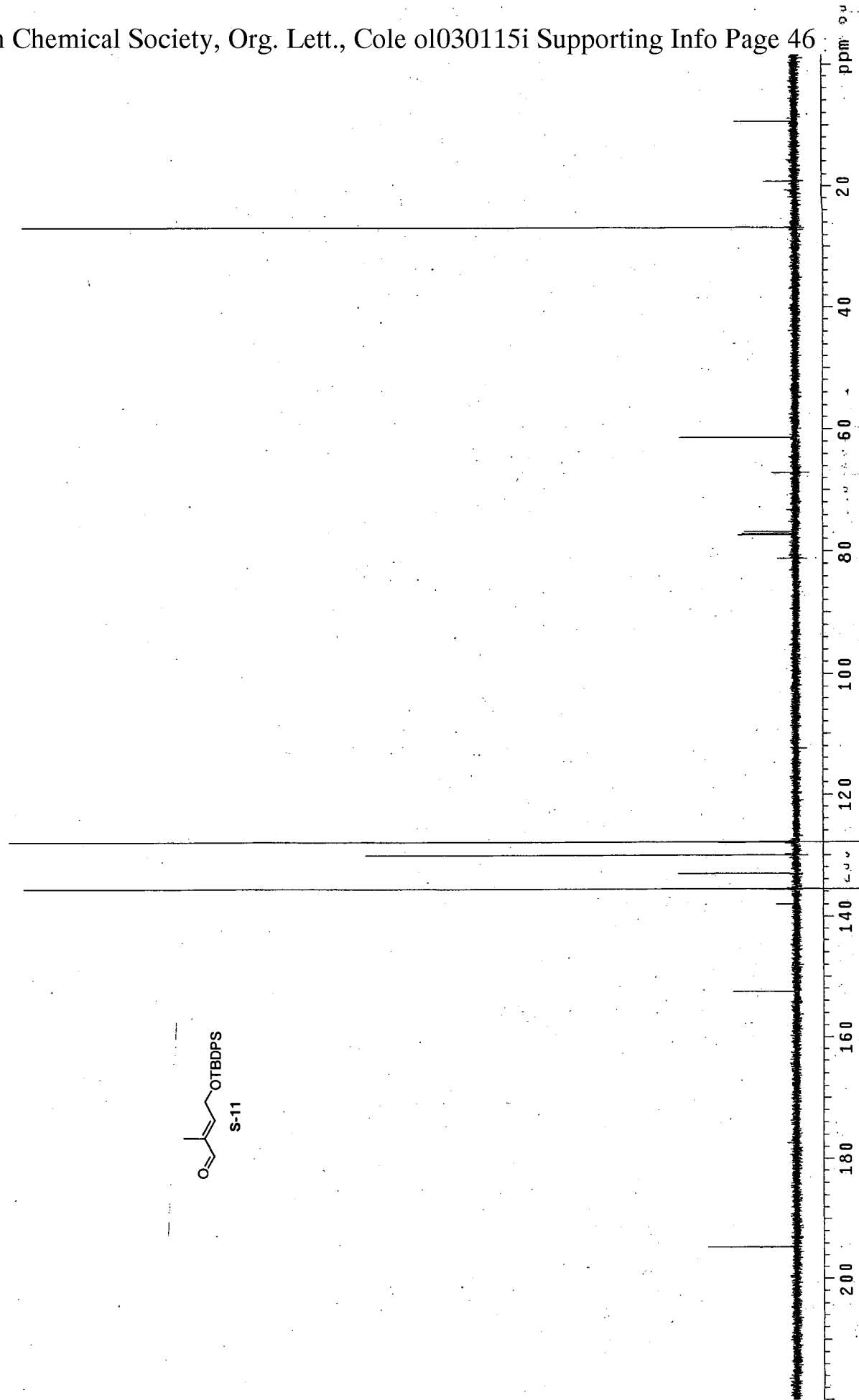


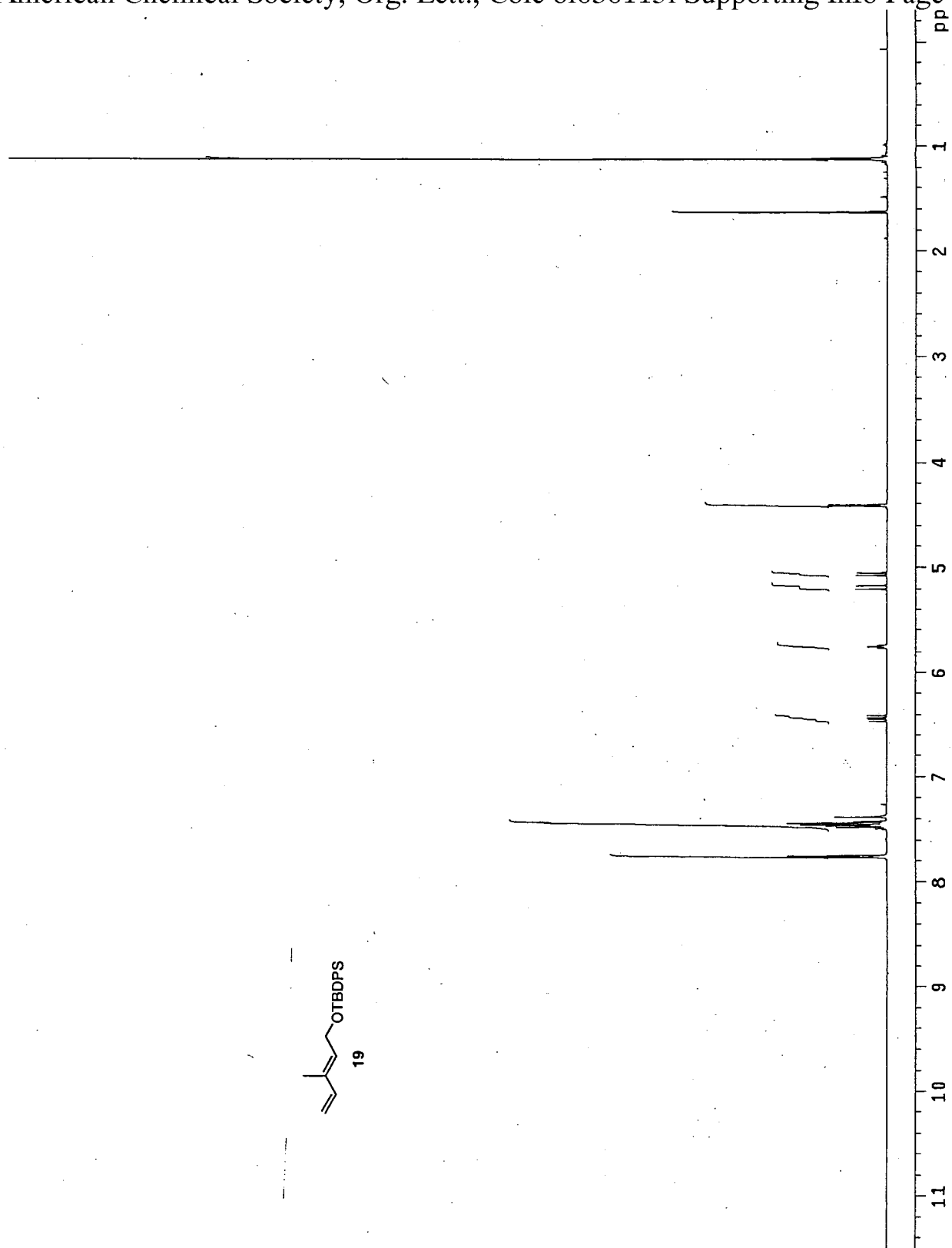
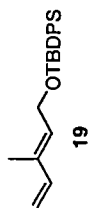


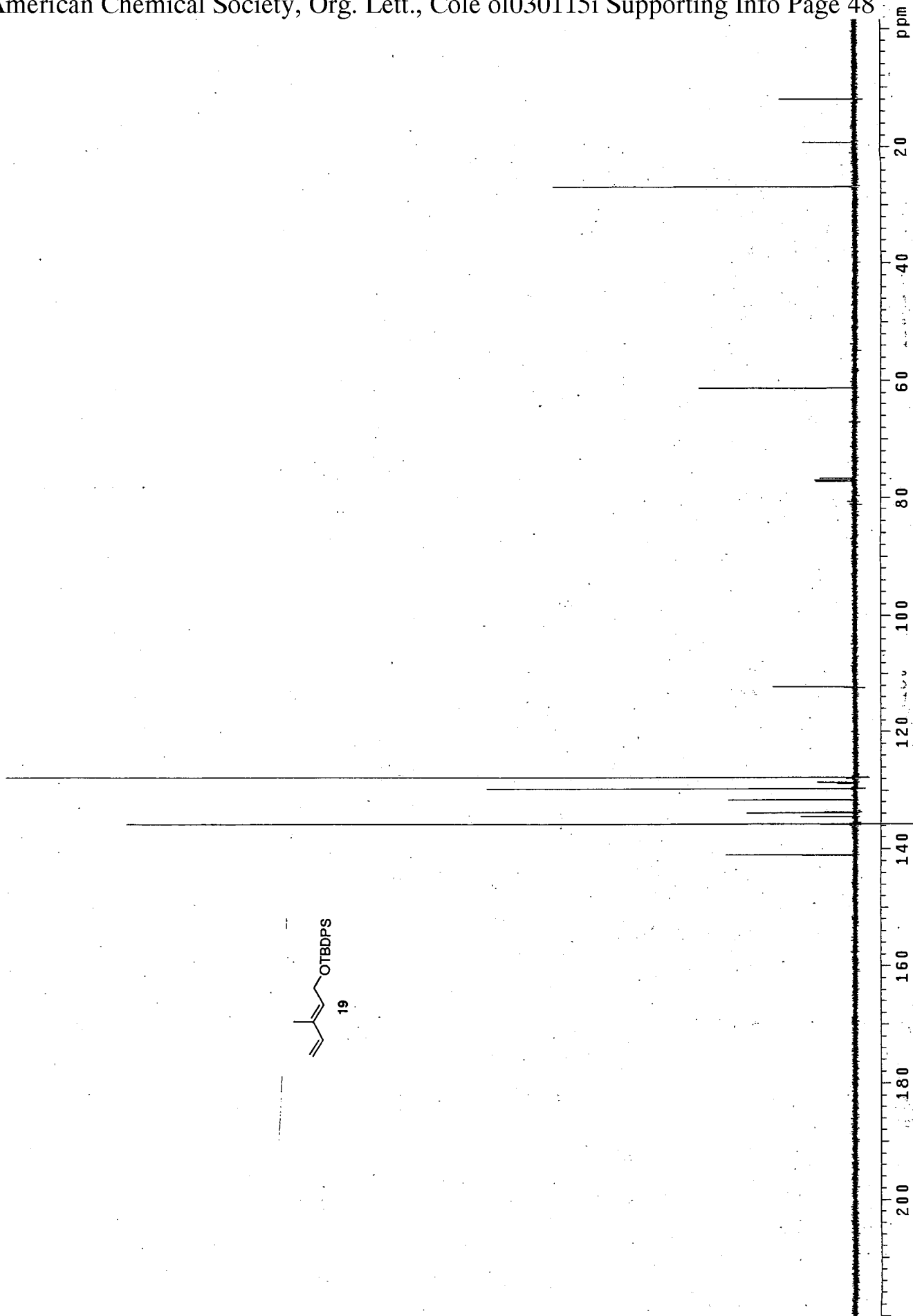


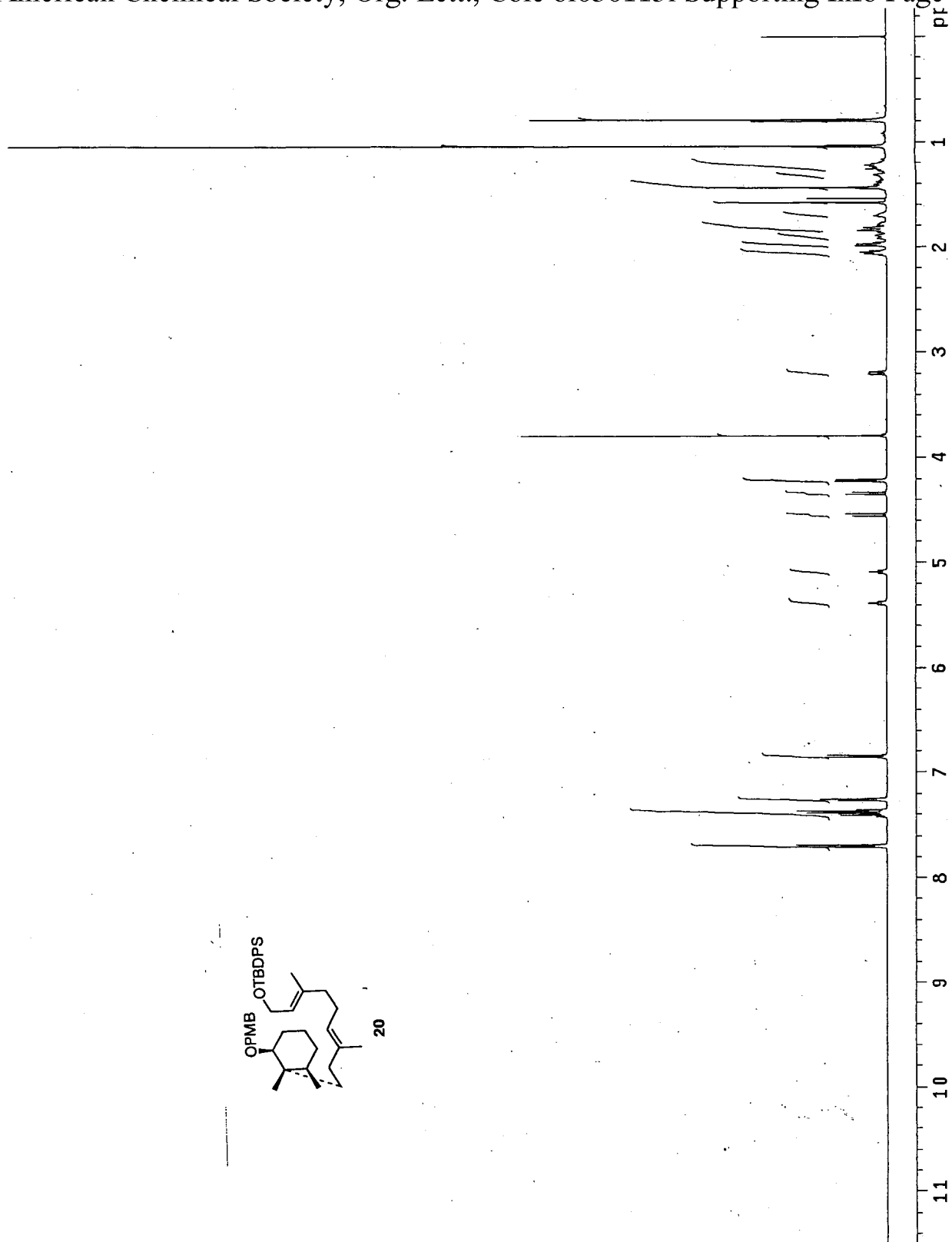
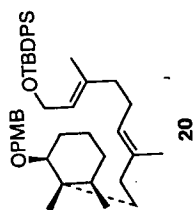


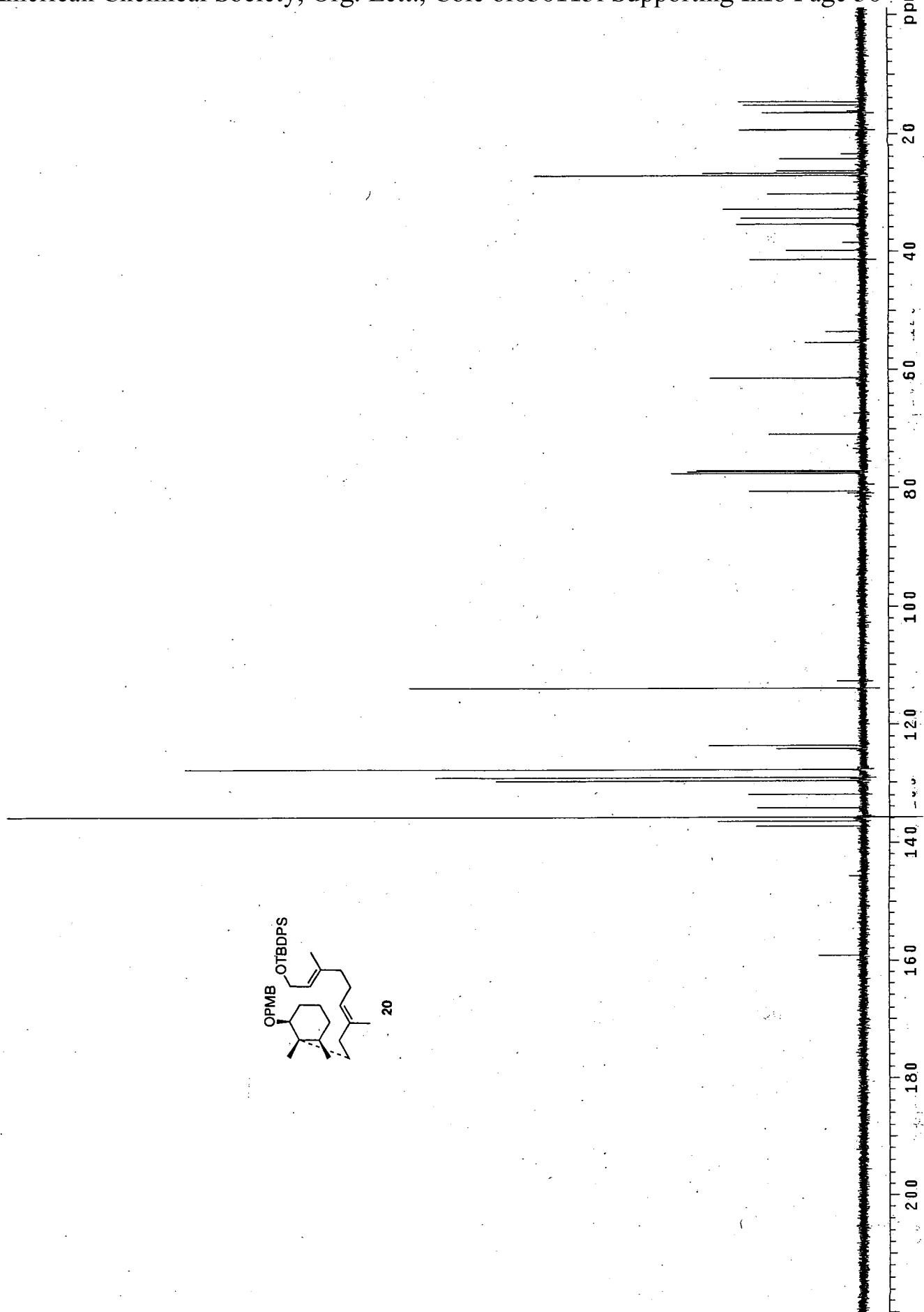


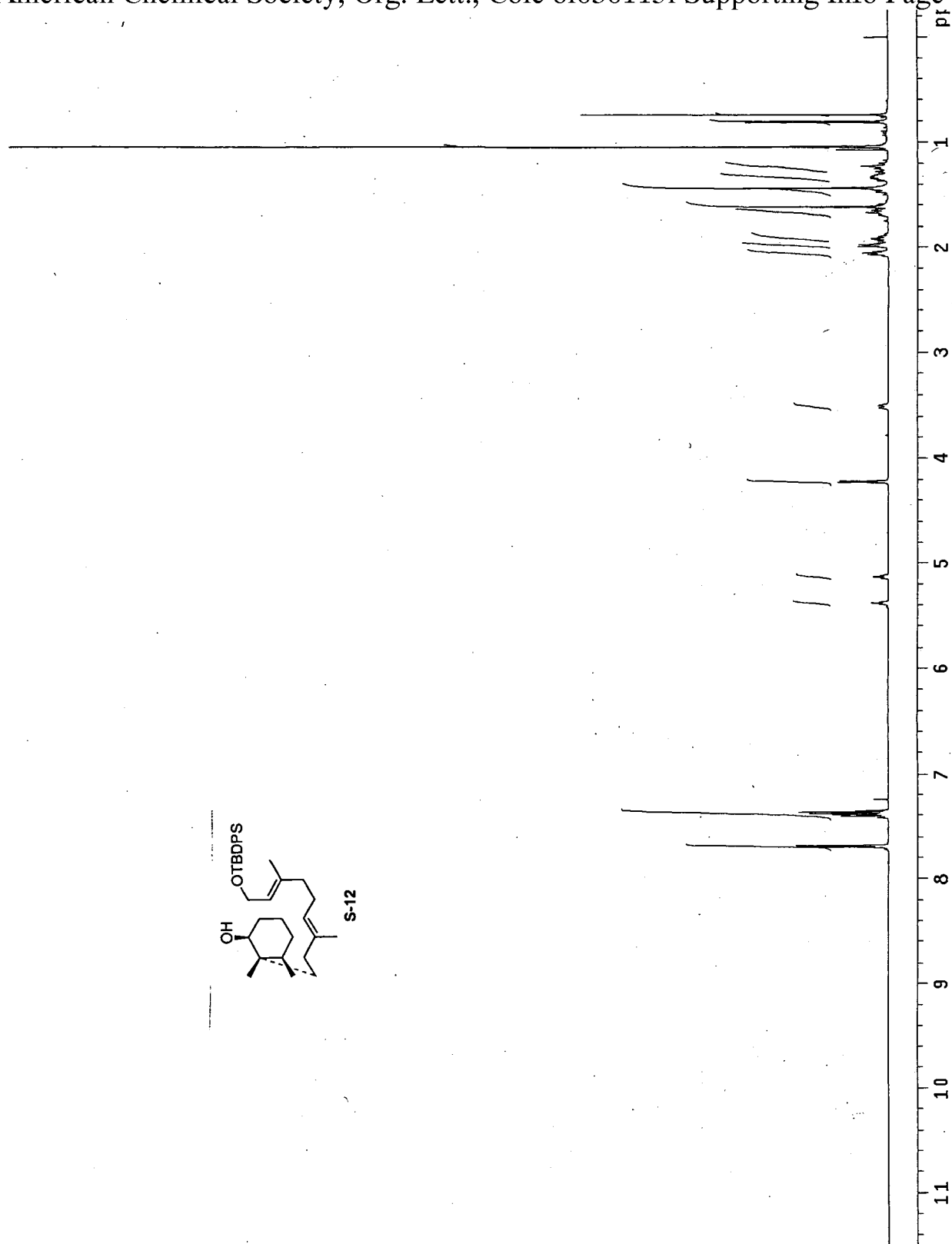
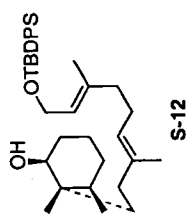


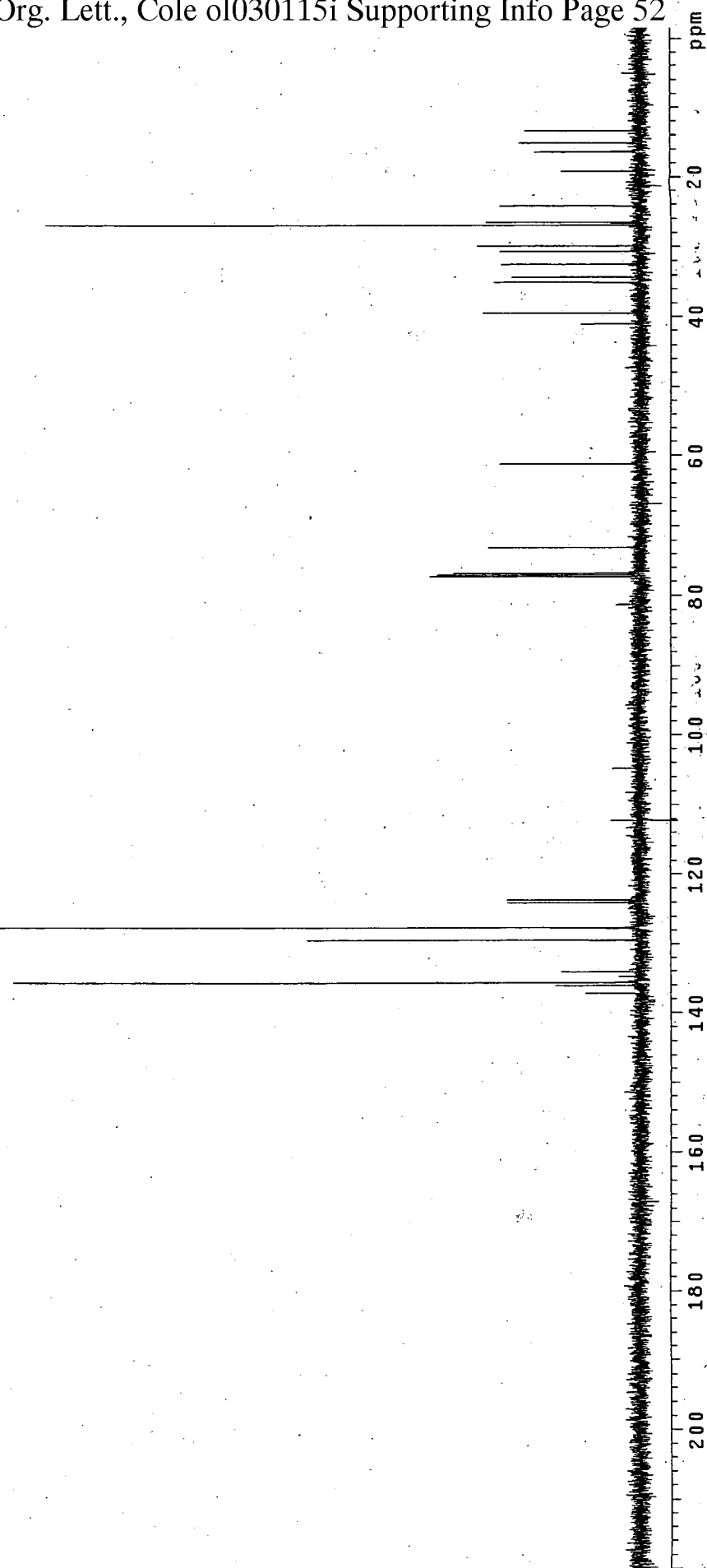
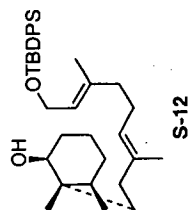


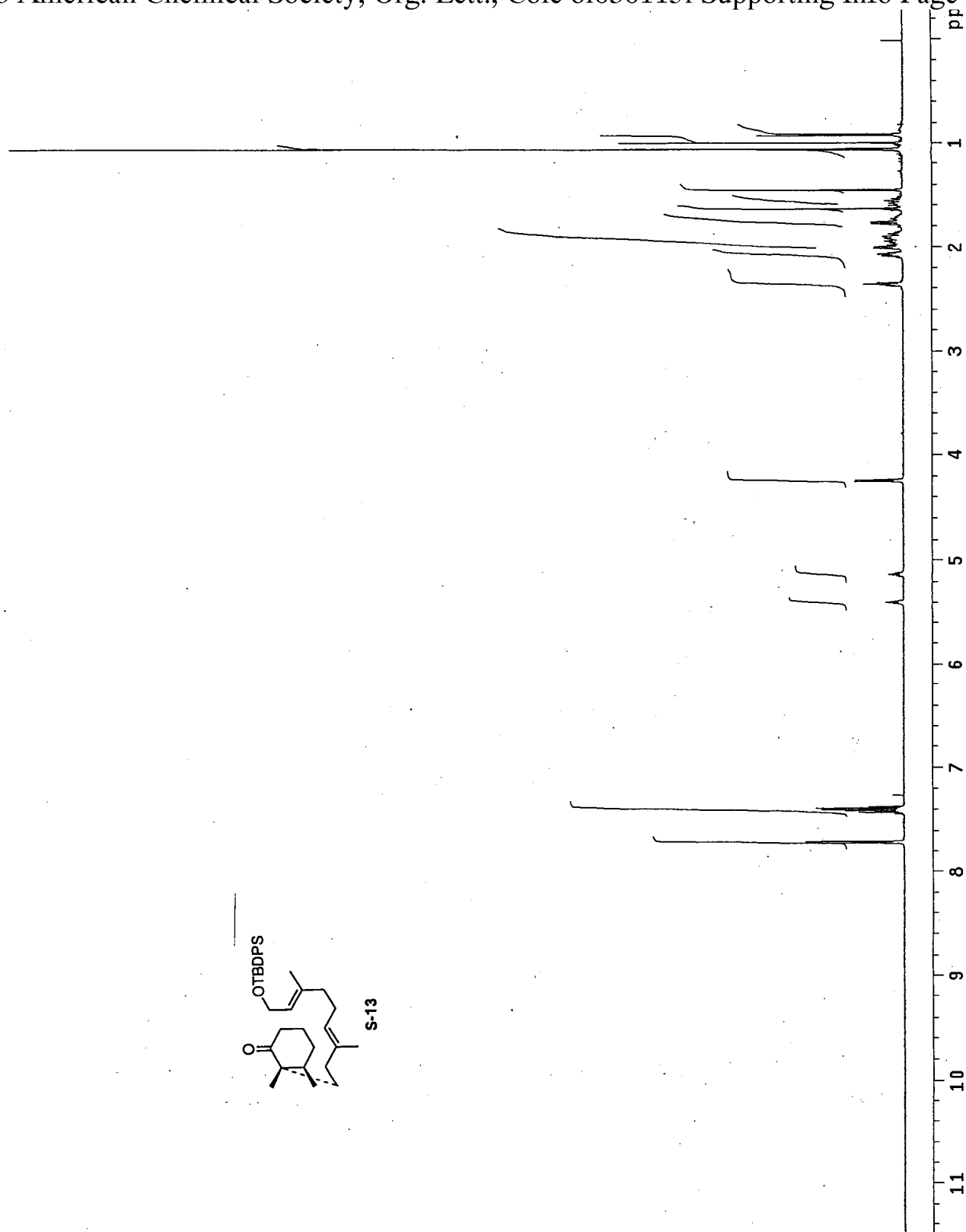
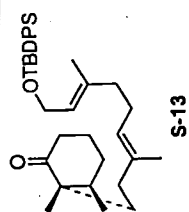


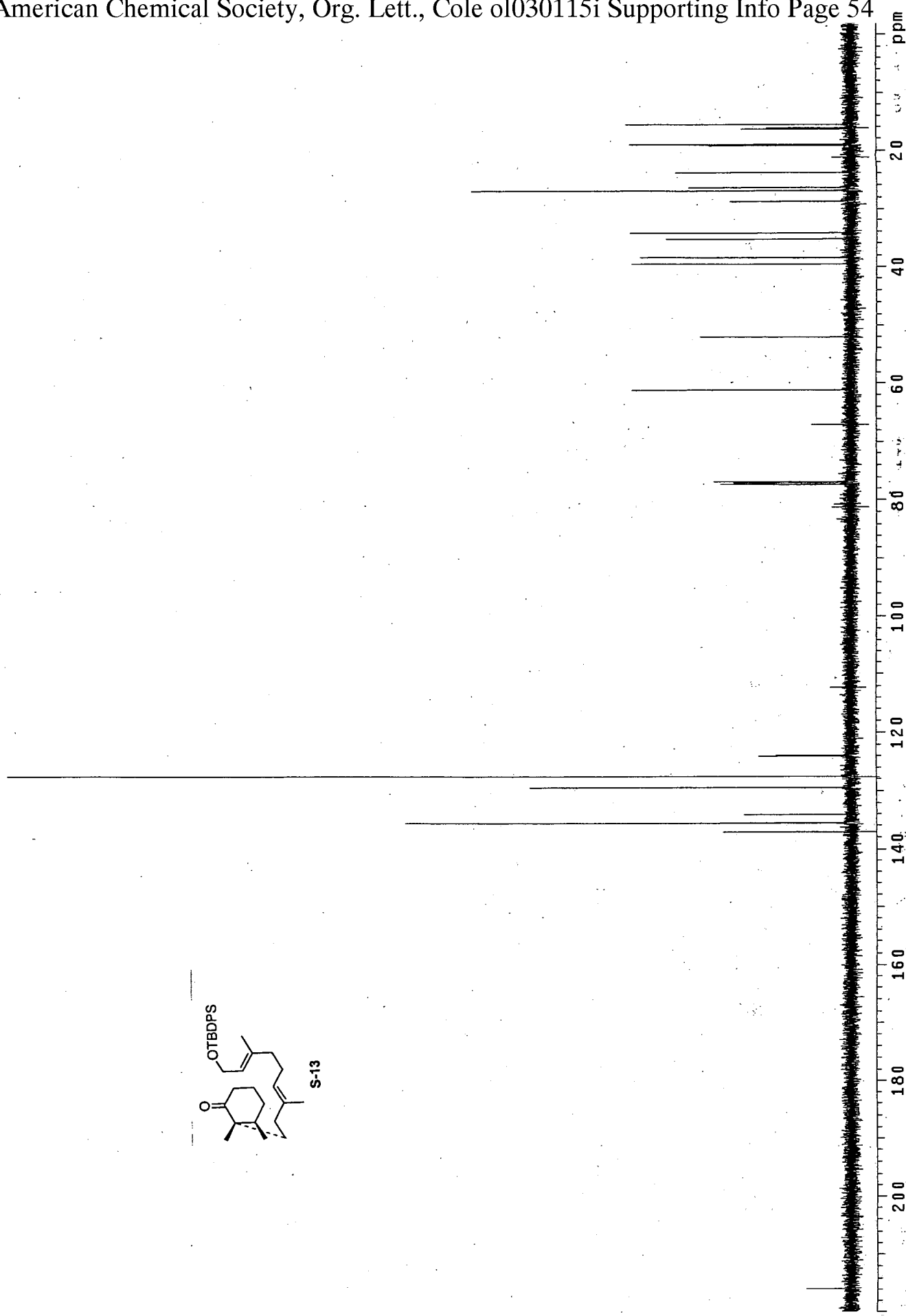
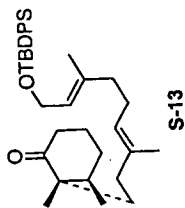


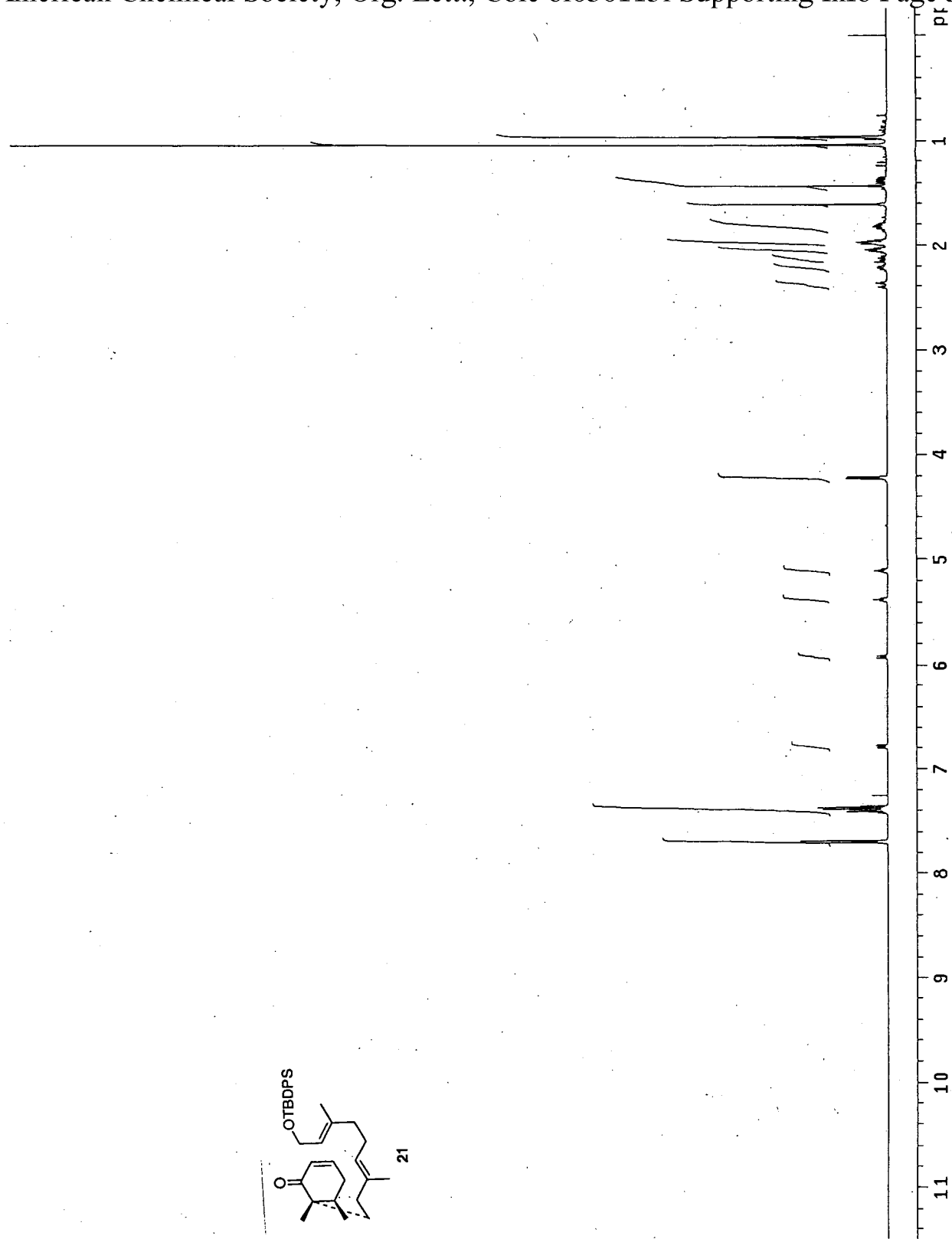
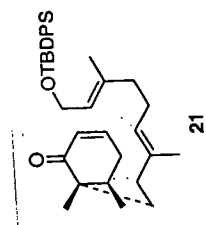


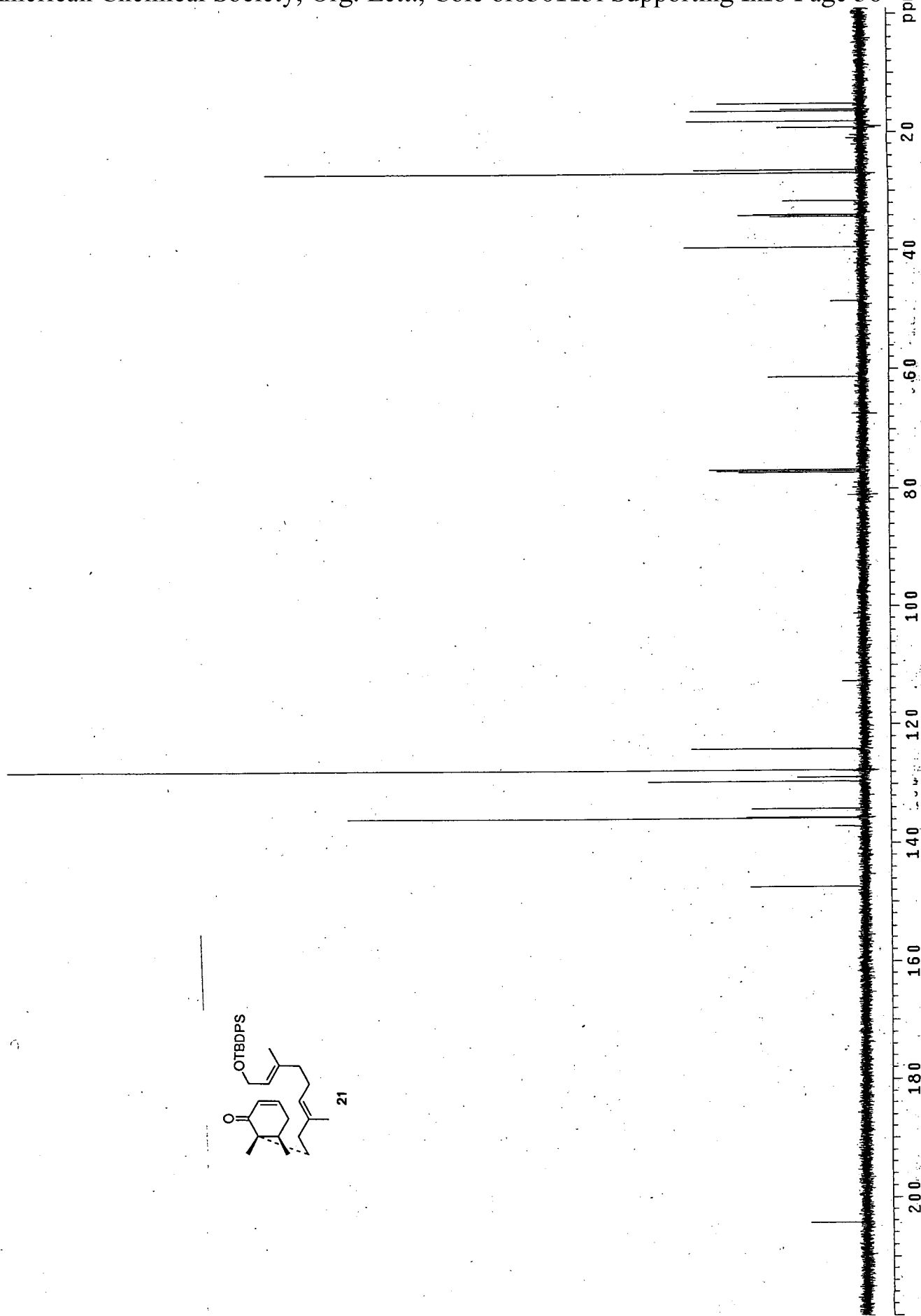


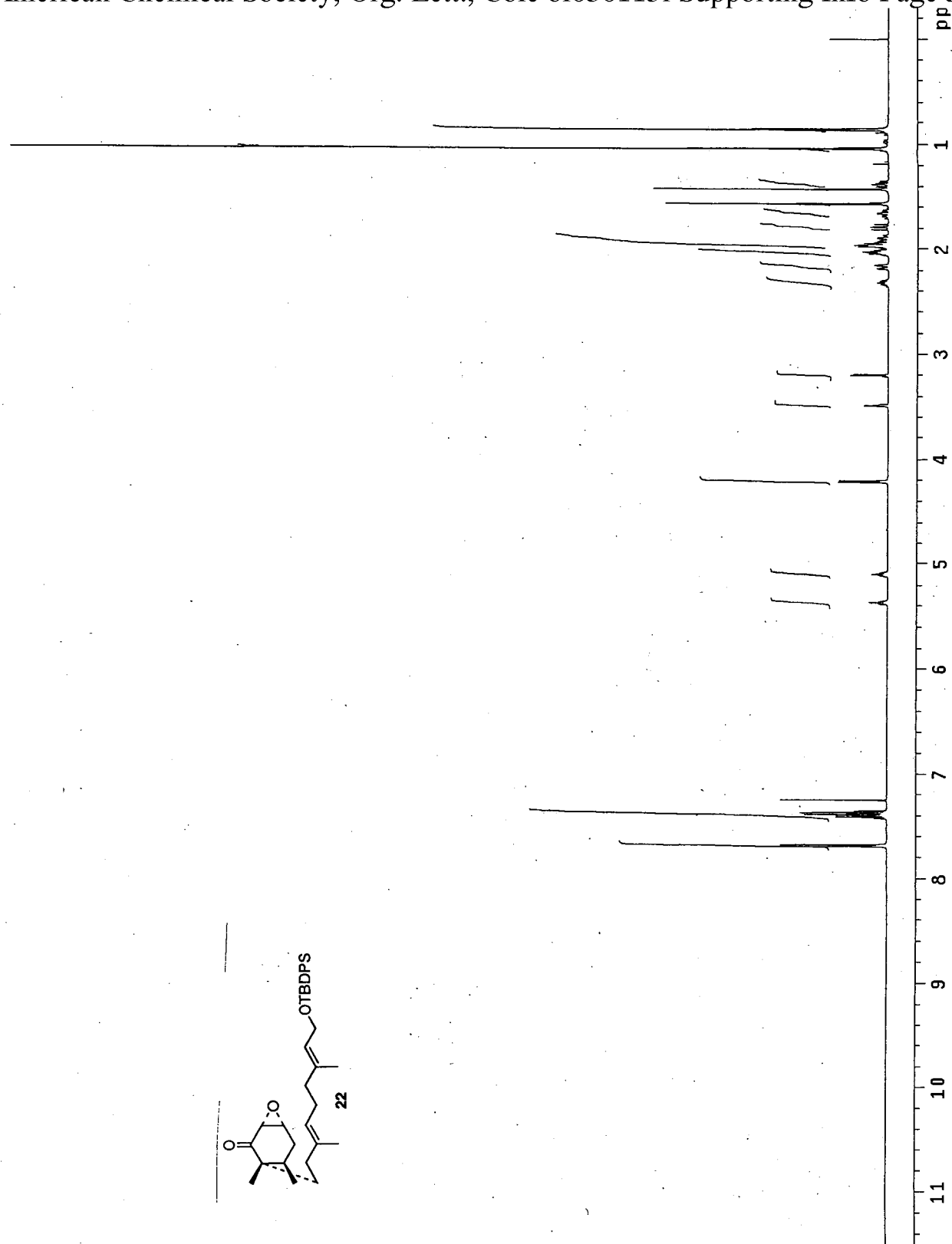
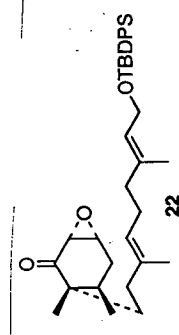


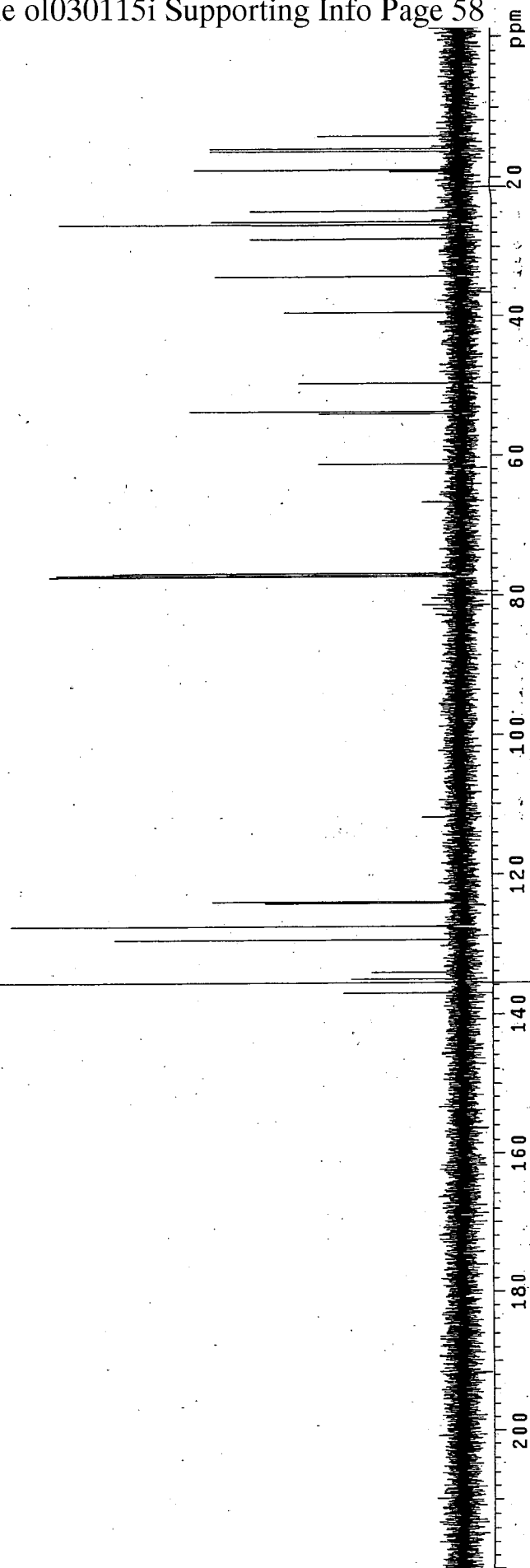
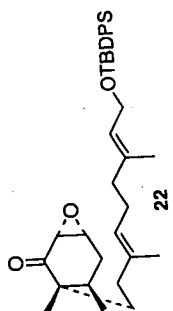


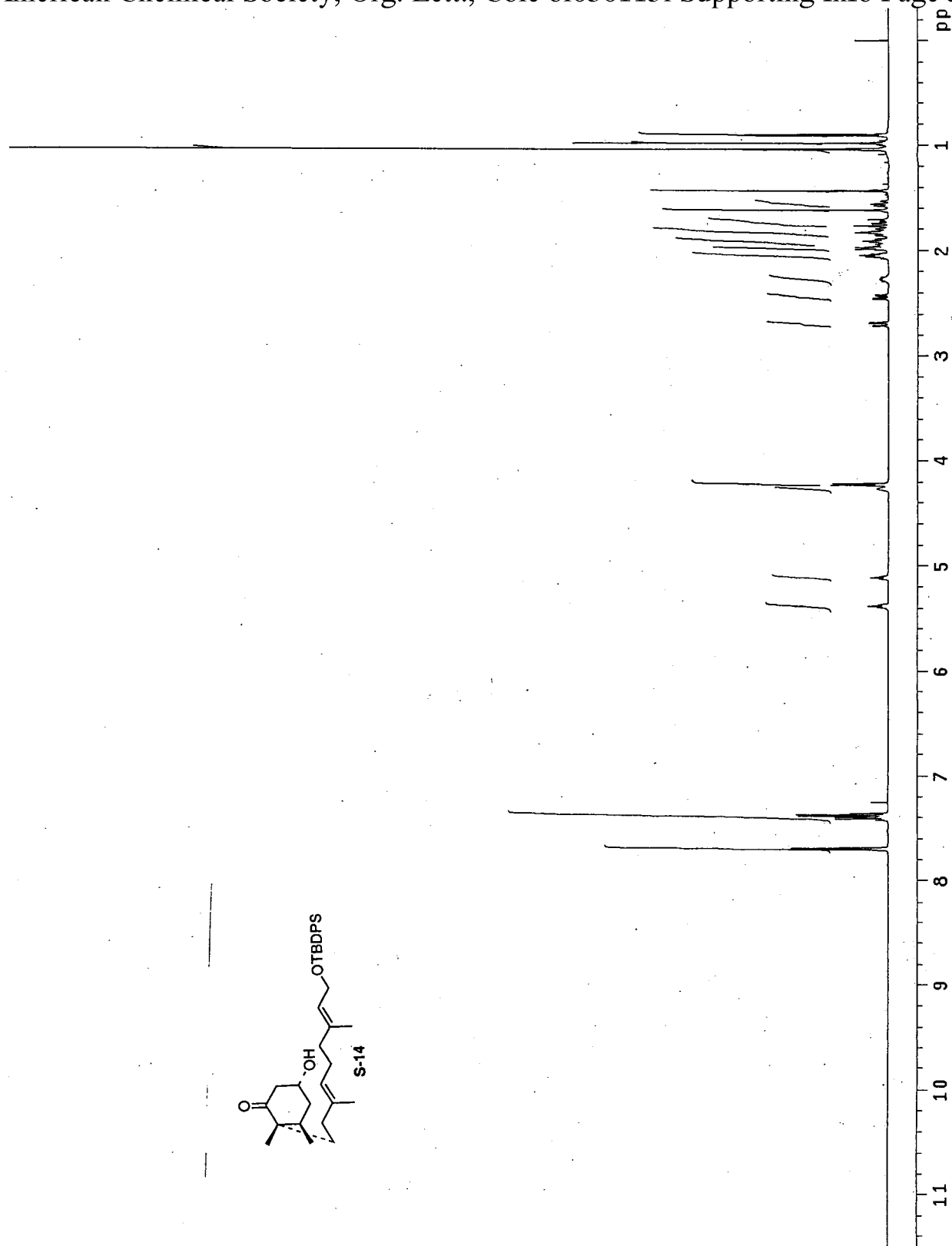
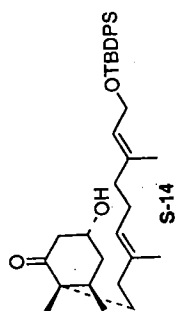


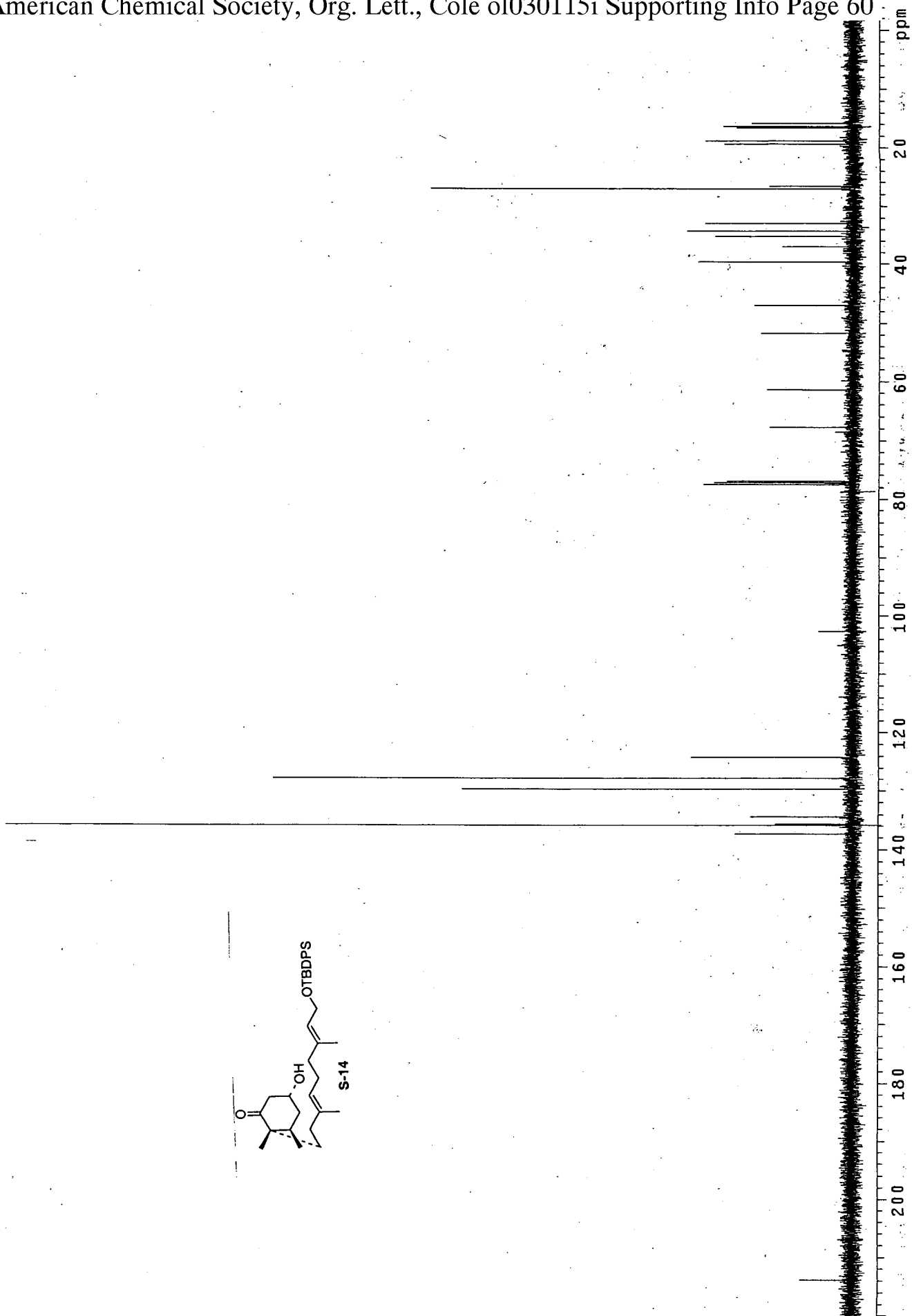
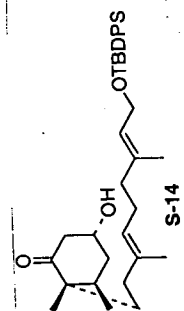


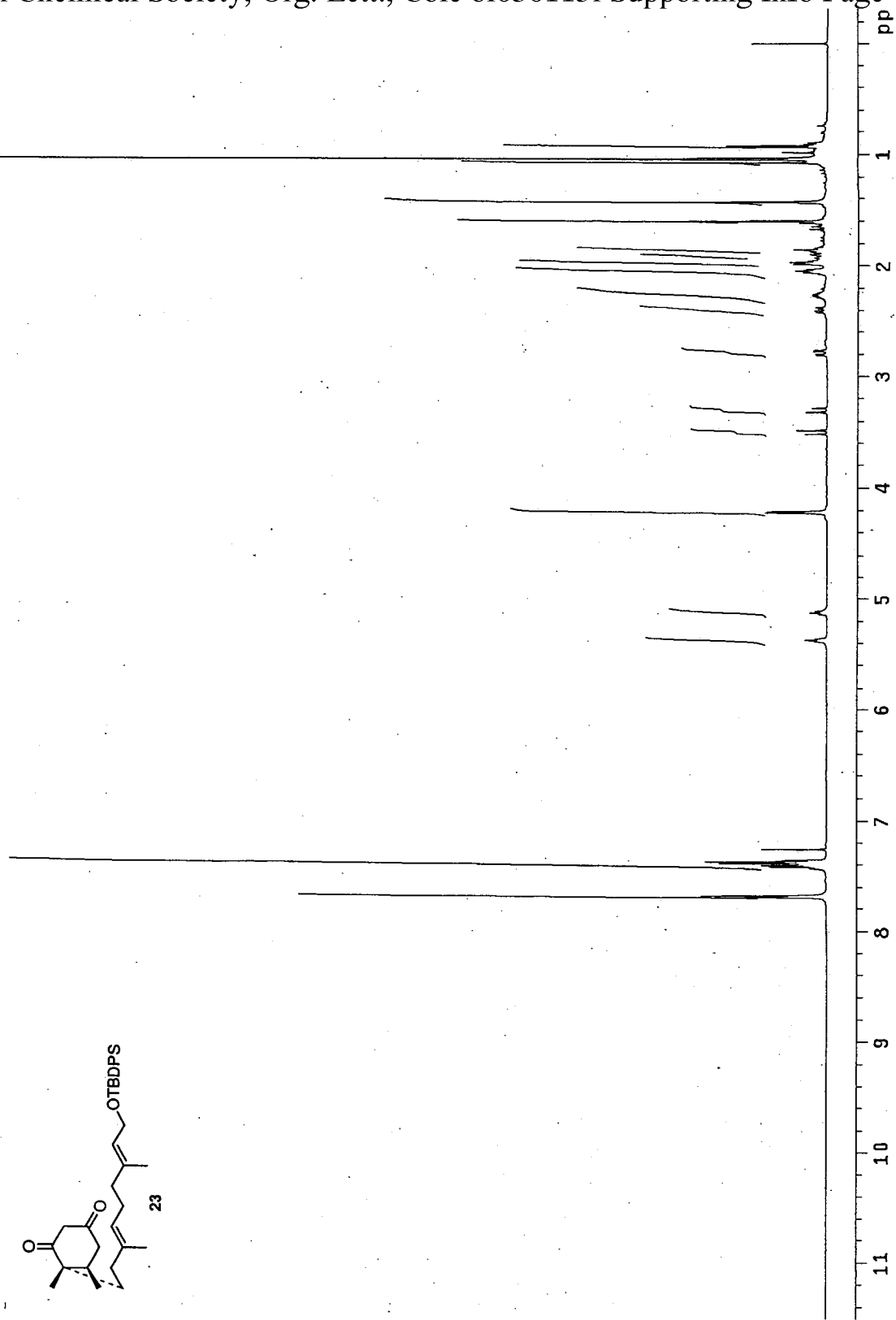


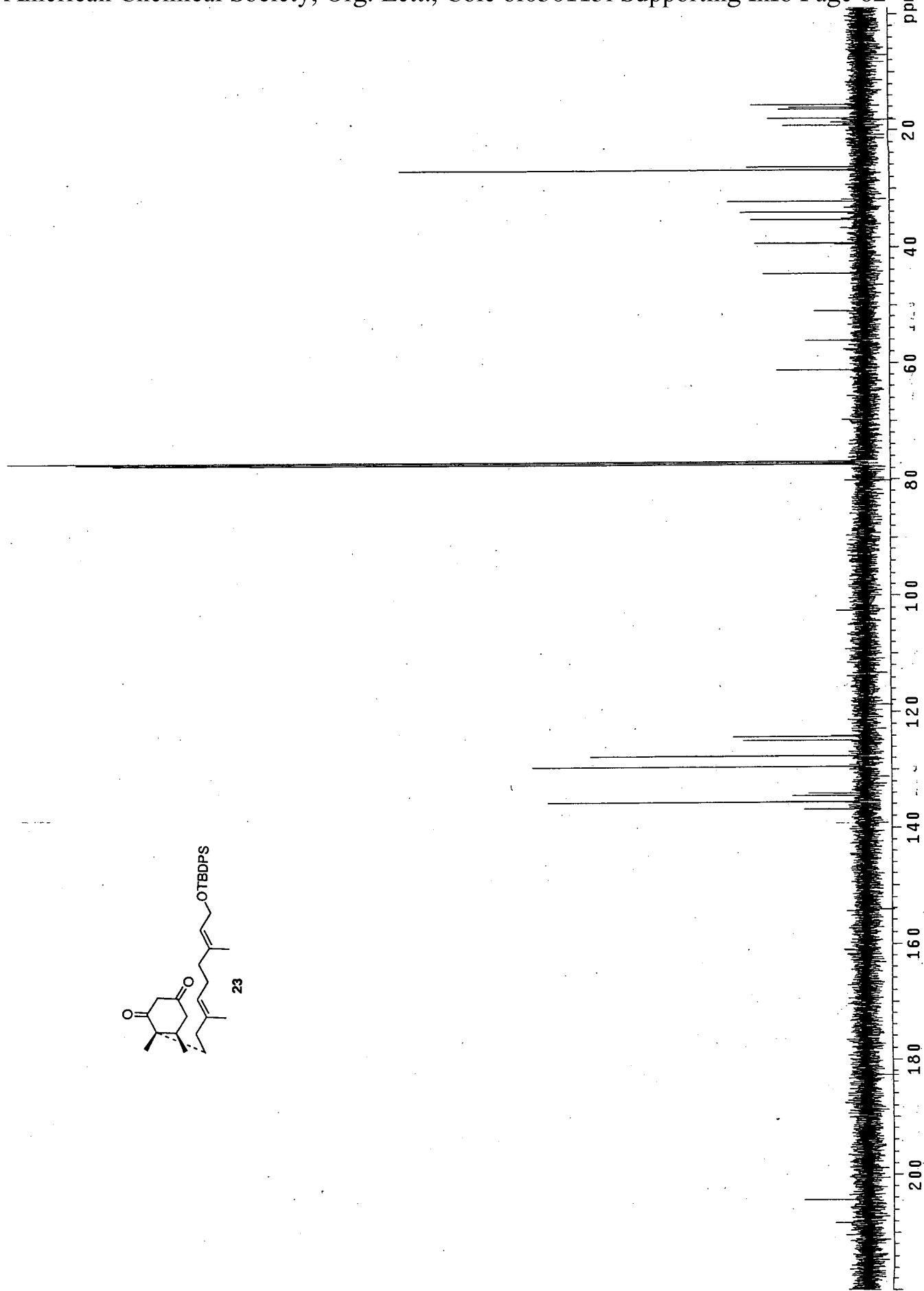
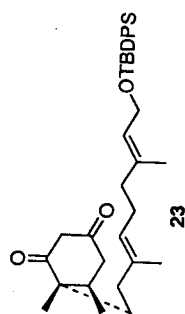


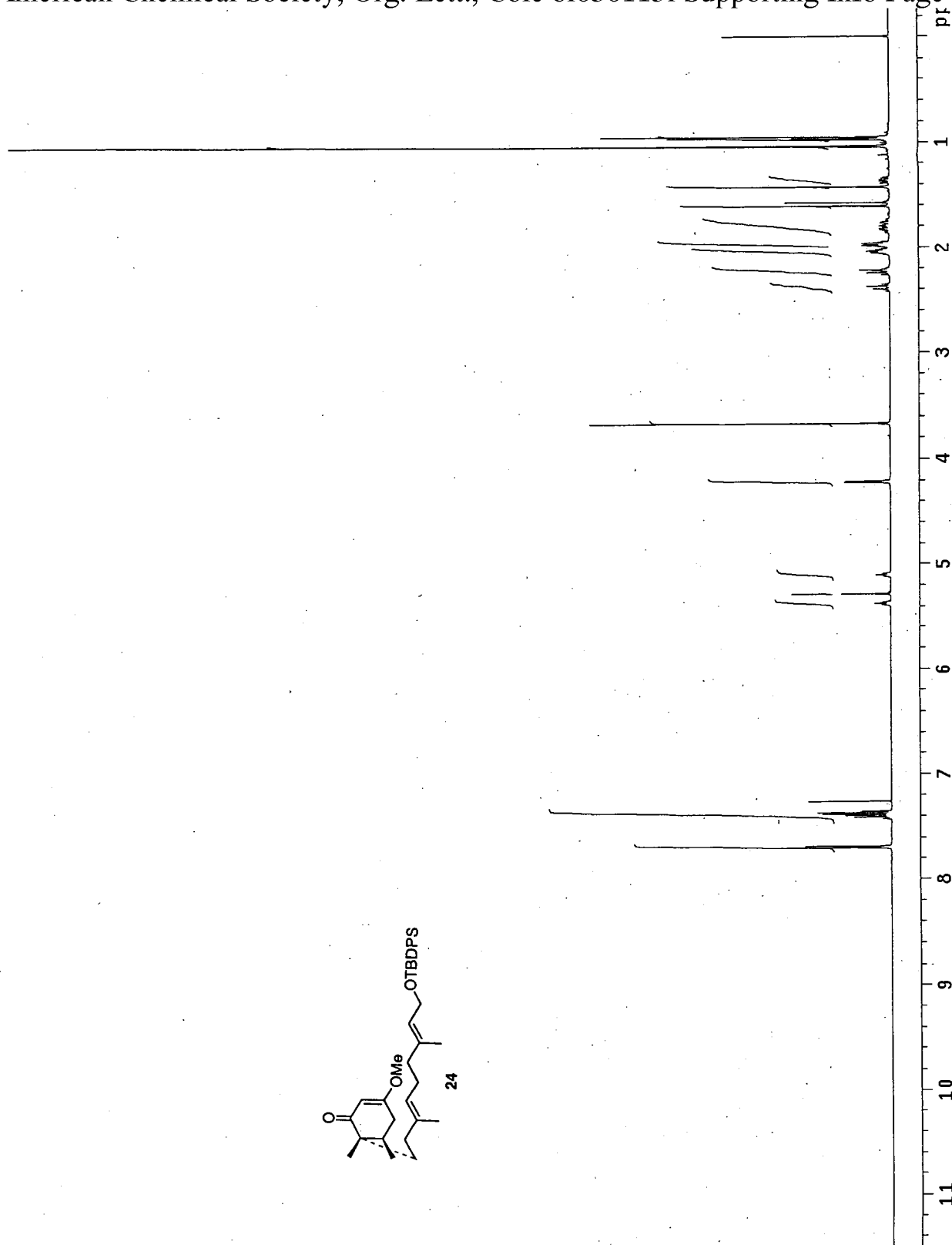
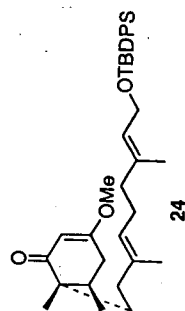


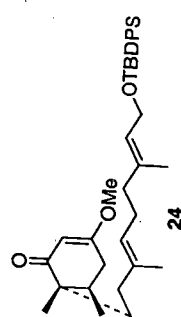


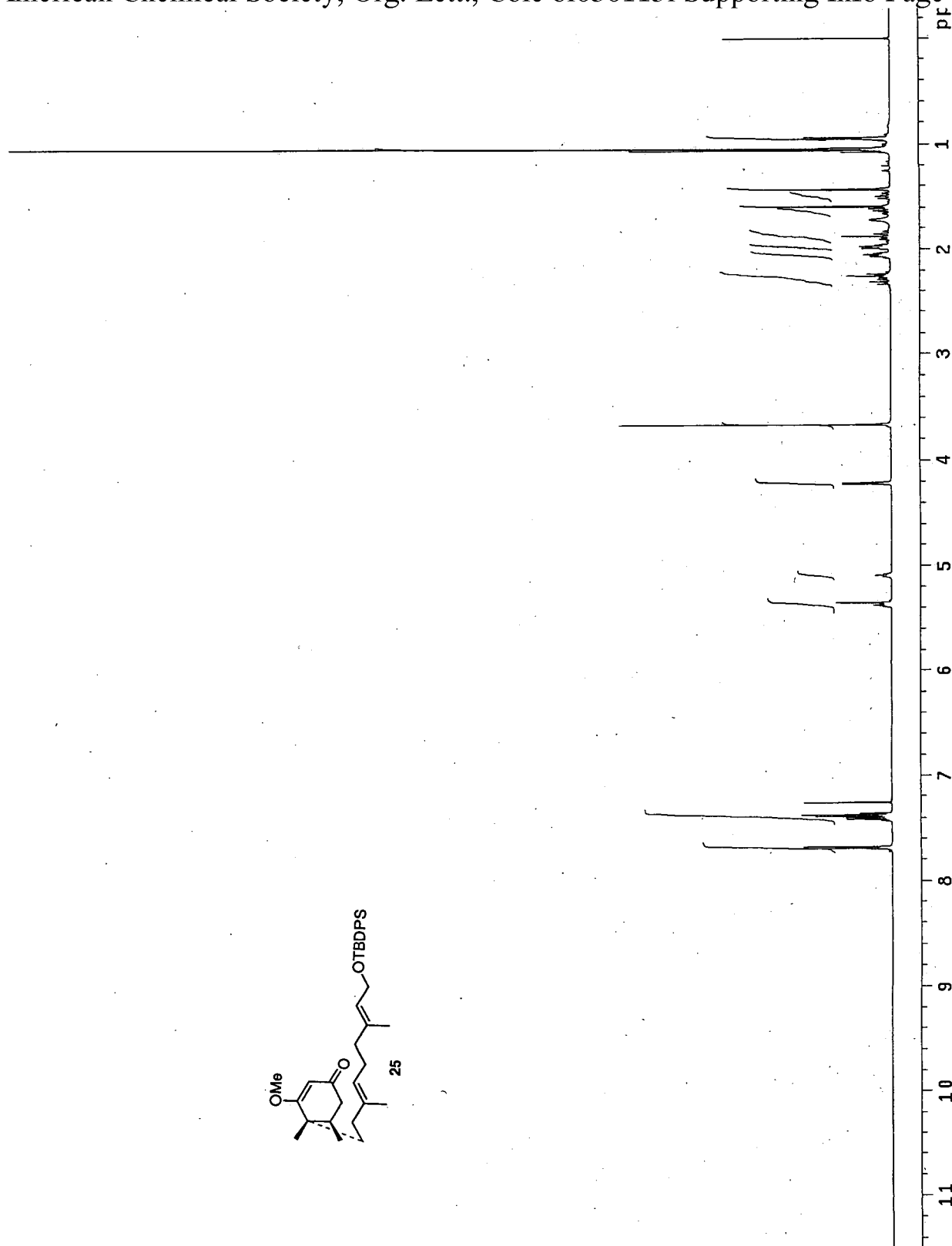
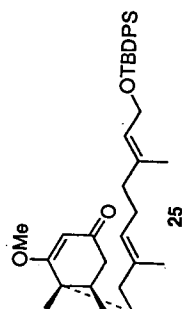


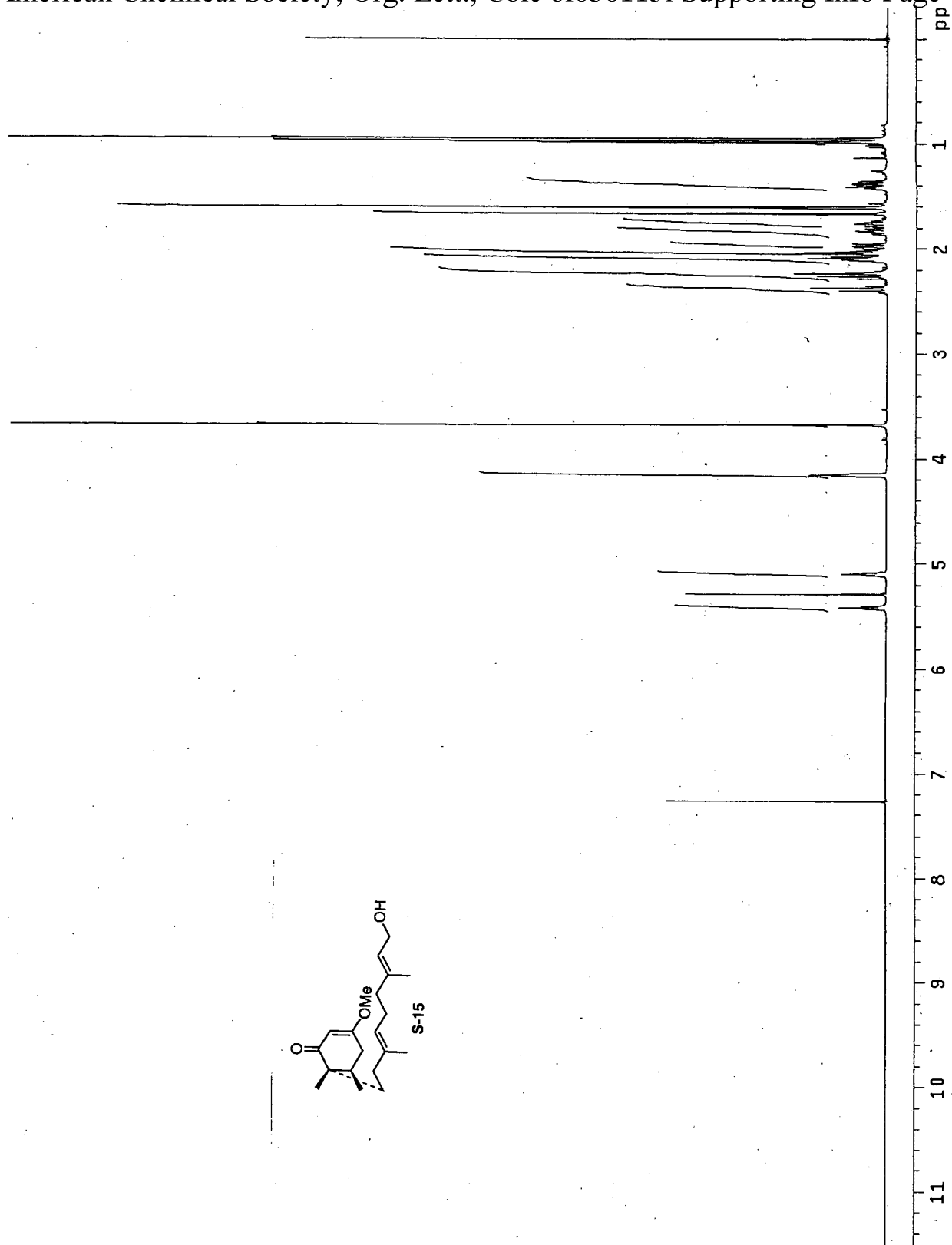


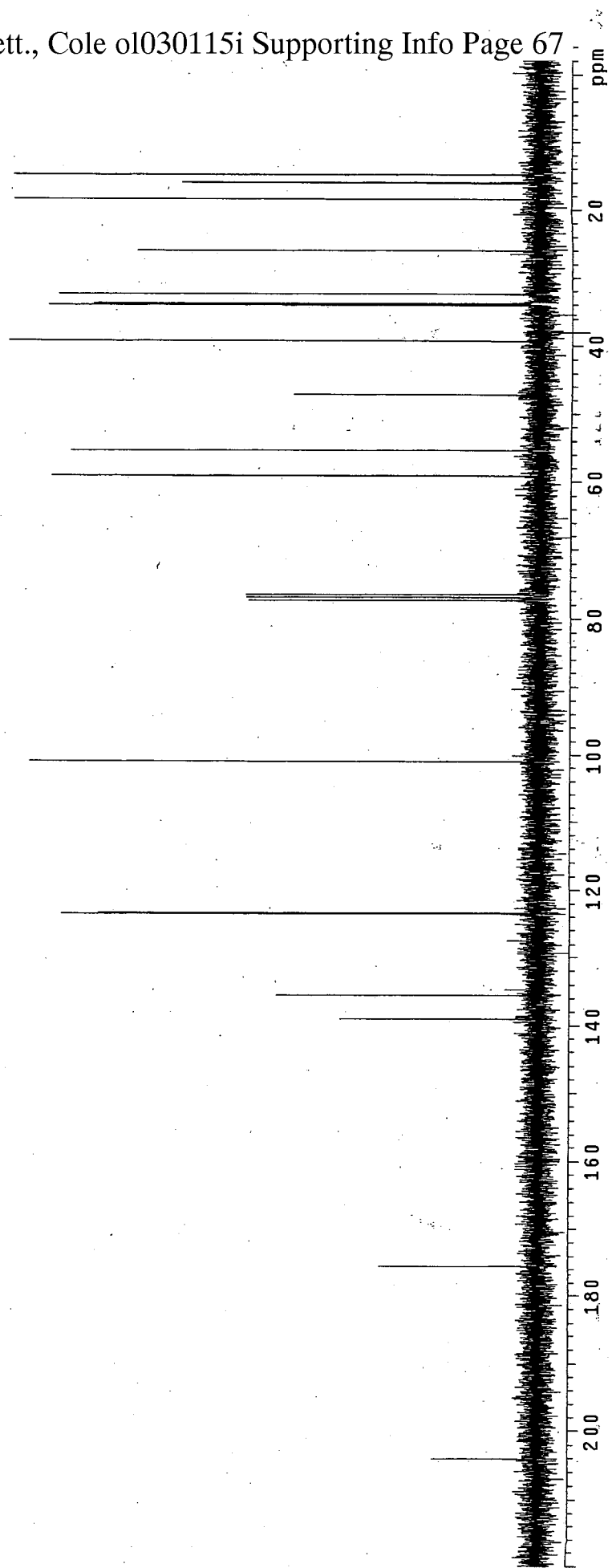
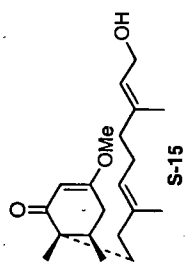


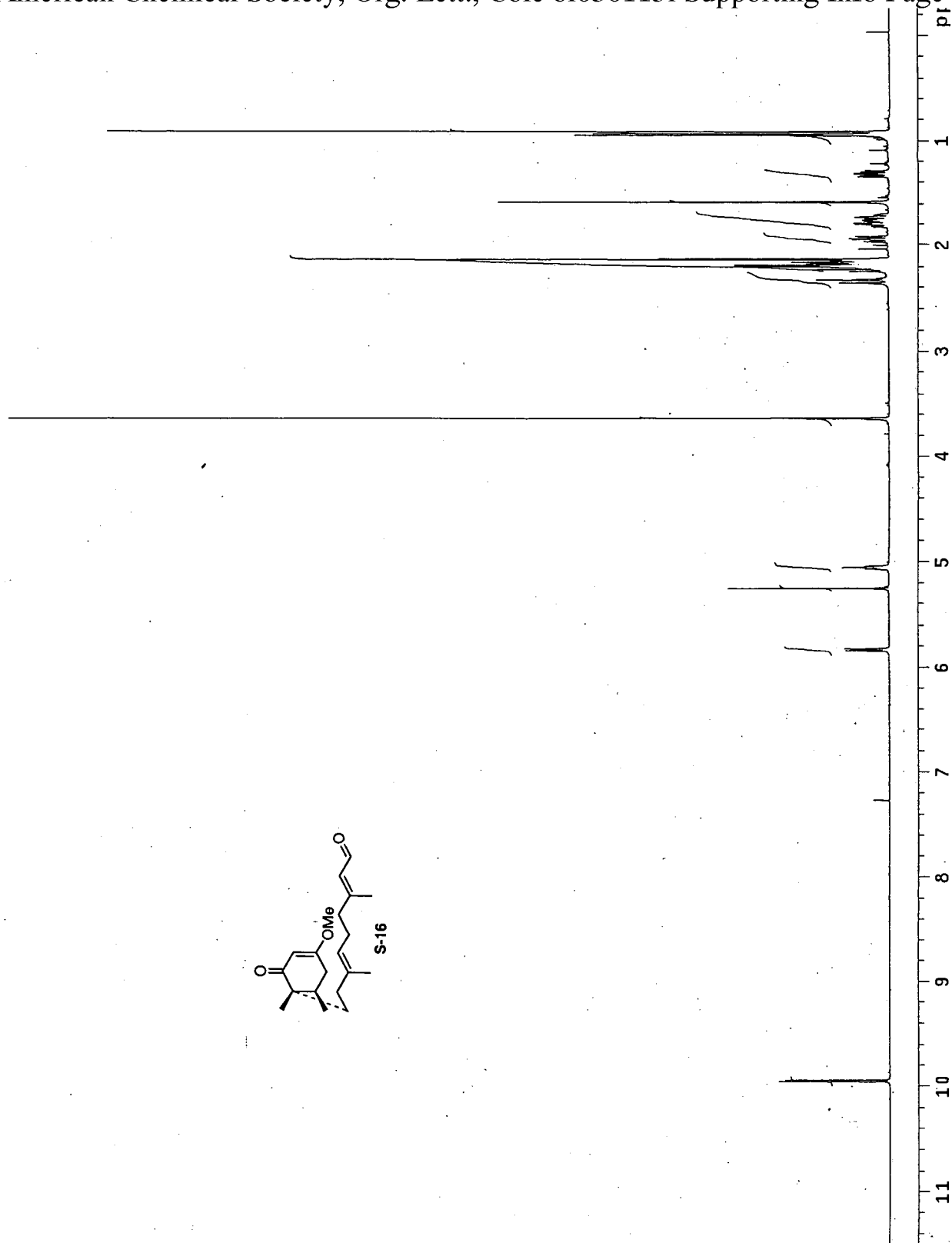


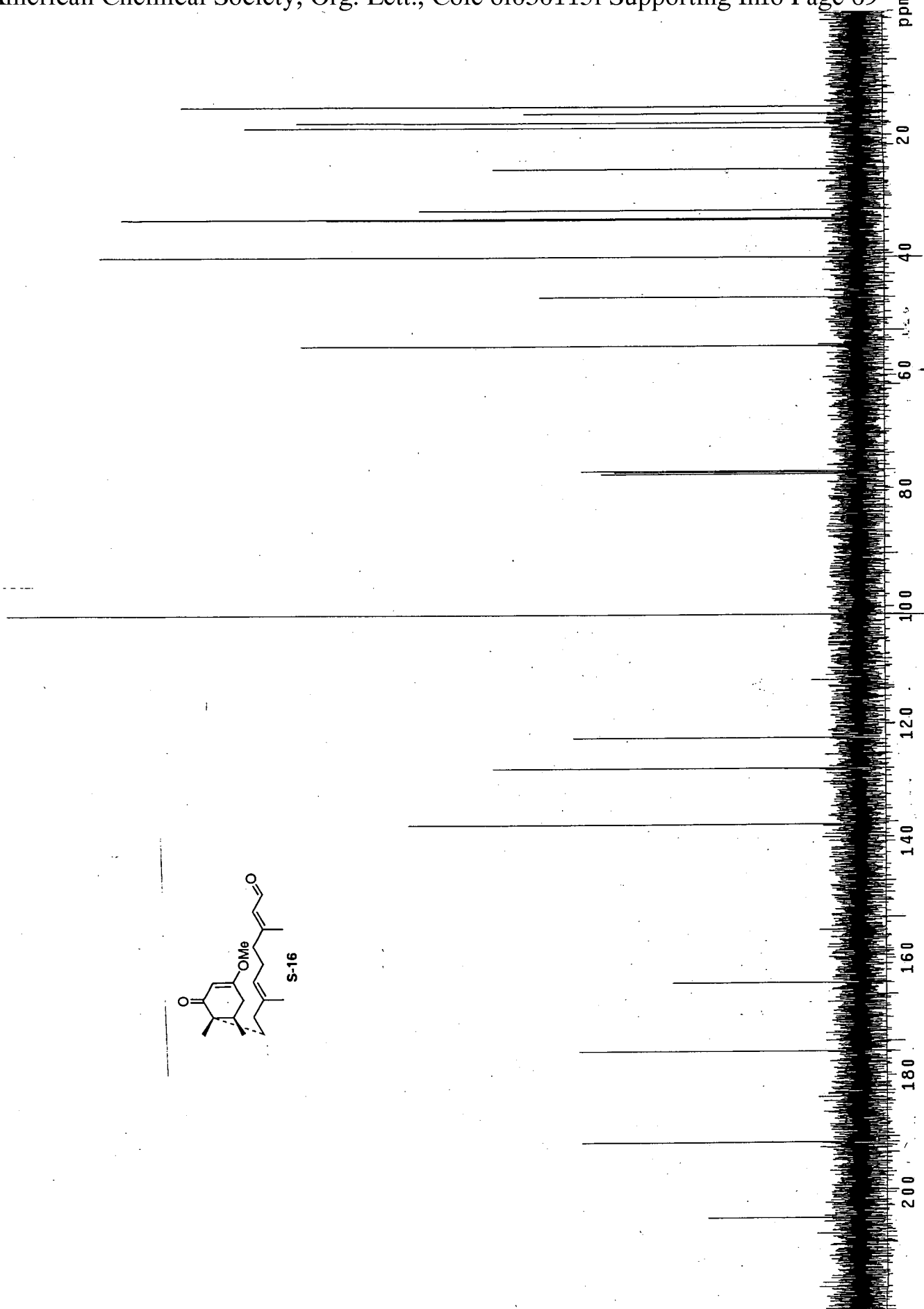
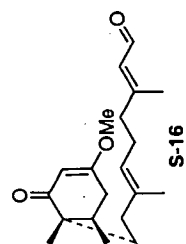


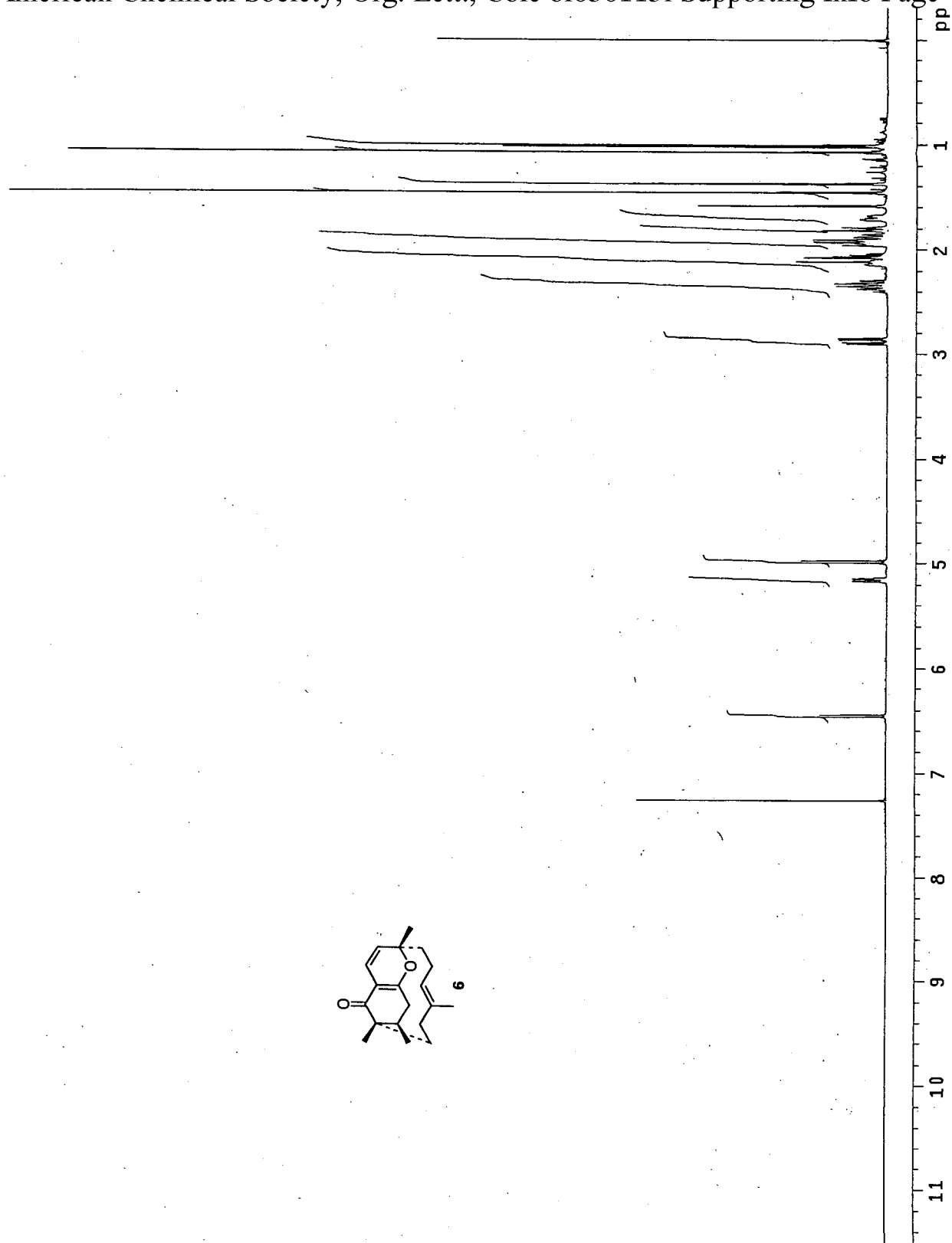


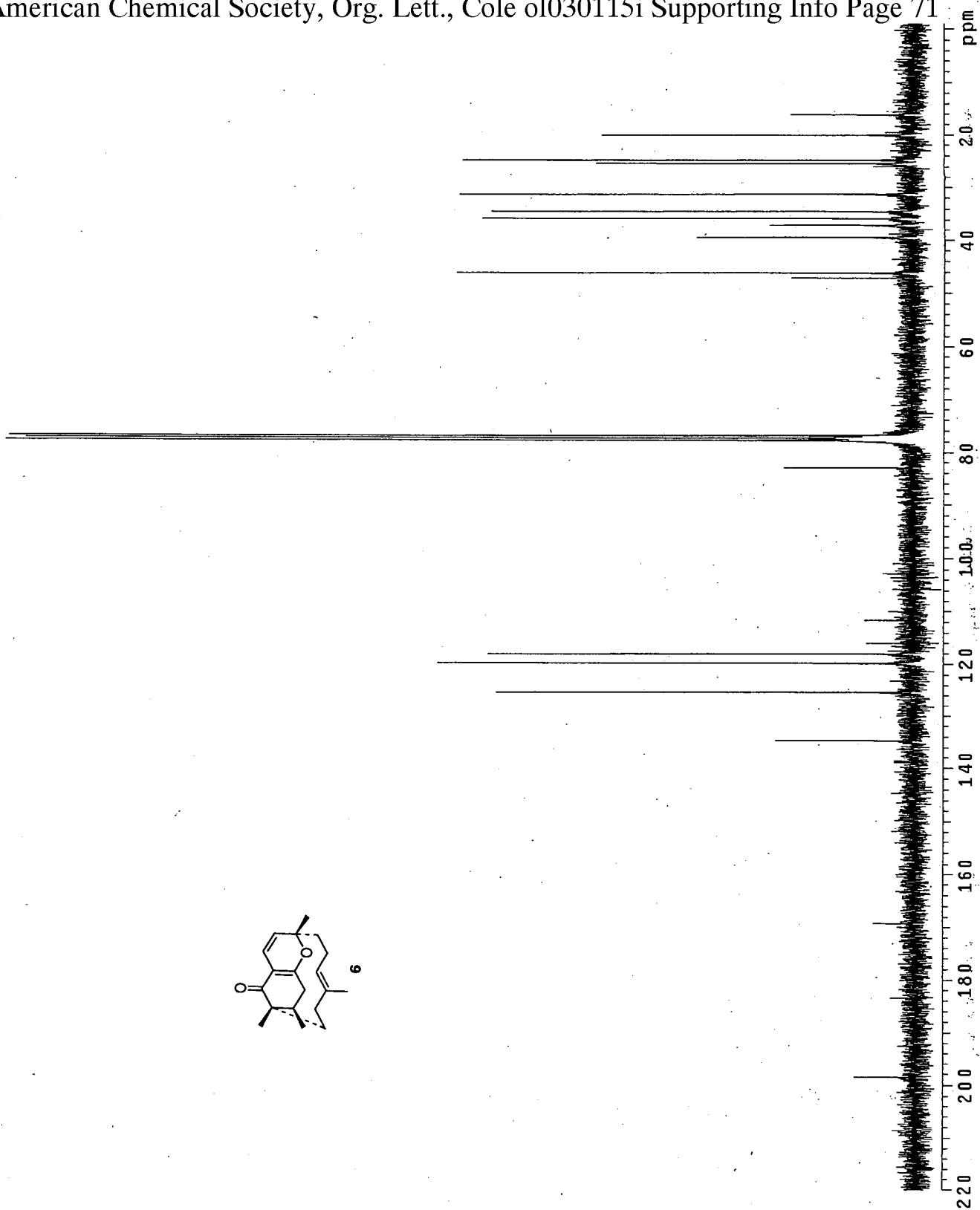


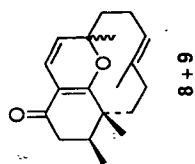
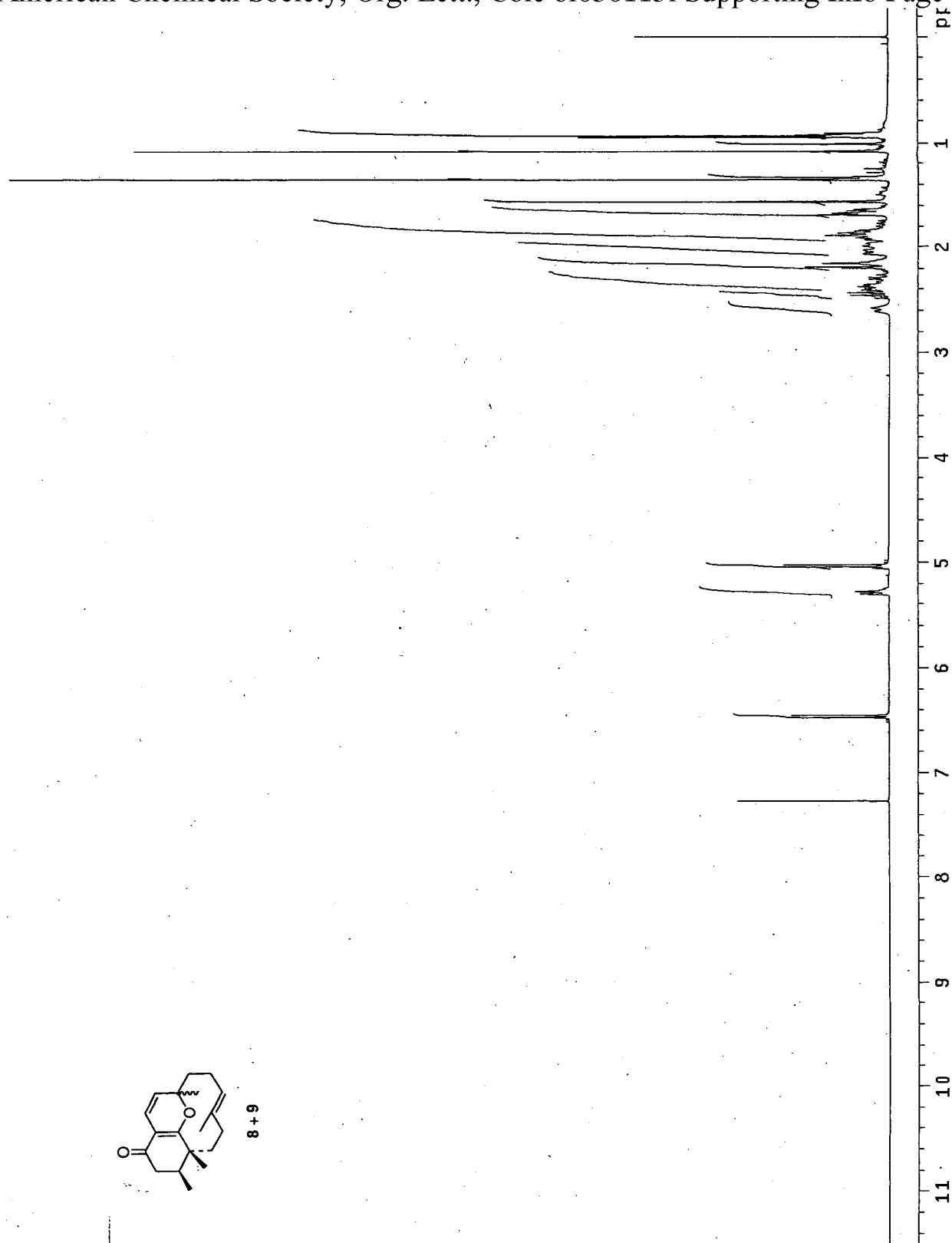












SUPPLEMENTARY MATERIALS: SPECIAL NMR EXPERIMENTS

for
the communication
entitled

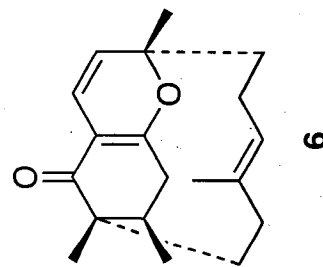
**An Intramolecular Formal Oxa-[3 + 3] Cycloaddition Approach to the ABD System of
Phomactin A.**

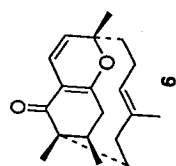
authored by

Kevin P. Cole and Richard P. Hsung*

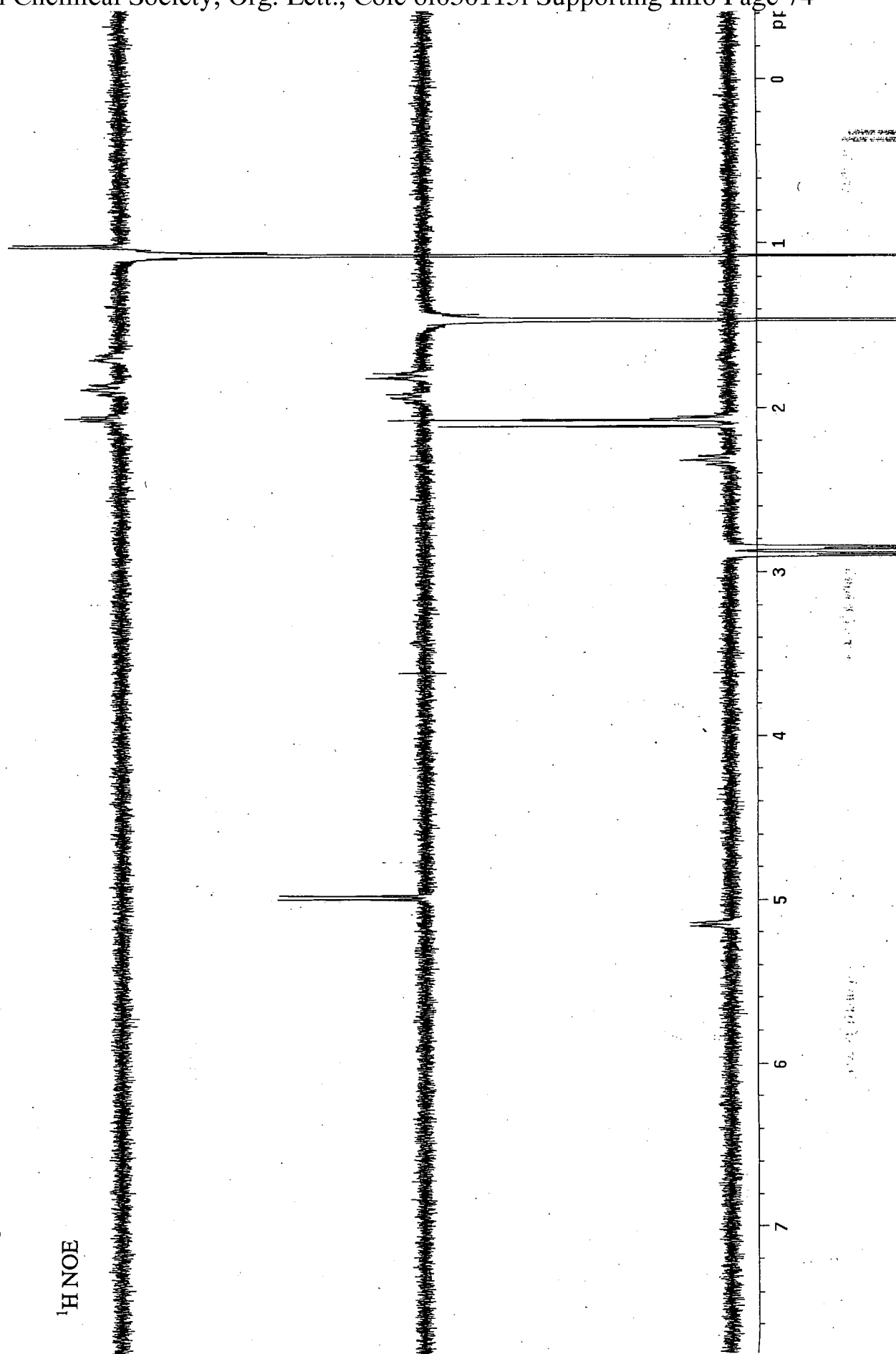
Department of Chemistry, University of Minnesota, Minneapolis, MN 55455

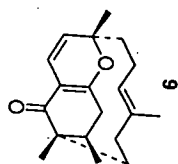
For the Assignment of Compound **6**.





¹H NOE





¹HNOE



Univ of Minnesota, VI-500

Pulse Sequence: gcosy

User: rhskpc

Date: Aug. 26, 2003

Solvent: C₆D₁₃

File: 5141cosy

Starting Time: 18:36:23

Completion Time: 18:41:33

Total acq. time 5 minutes

UNITYplus-500 "spectrum"

Ambient temperature

PULSE SEQUENCE: gcosy

Relax. delay 1.381 sec

Acq. time 0.119 sec

Width 4313.8 Hz

2D Width 4313.8 Hz

Single scan

192 increments

OBSERVE H1, 499.8671219 MHz

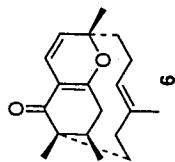
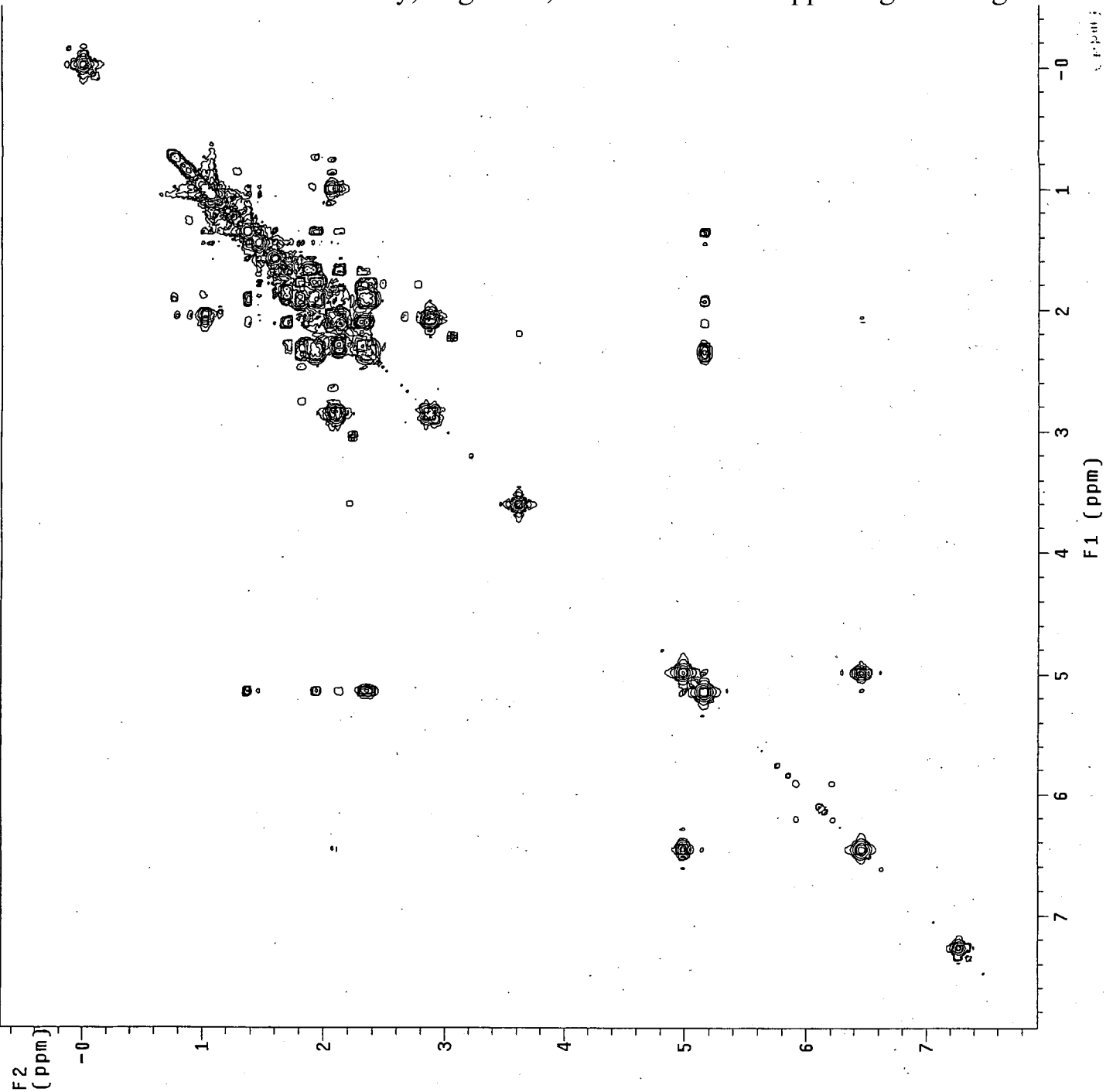
DATA PROCESSING

Sine bell 0.059 sec

F1 DATA PROCESSING

Sine bell 0.022 sec

FT size 1024 x 1024

¹H-¹H-COSY

Univ of Minnesota, VI-500

Pulse Sequence: relayh

User: rhskpc

Date: Aug. 28, 2003

Solvent: cdcl3

File: 5141lrco5y

Starting Time: 10:01:30

Completion Time: 10:35:00

Total acq. time 26 minutes

UNITYplus-500 "spectrum"

Ambient temperature

PULSE SEQUENCE: relayh

Relax. delay 1.380 sec

Acq. time 0.120 sec

Width 4283.1 Hz

2D width 4283.1 Hz

4 repetitions

256 increments

OBSERVE H1, 499.8671219 MHz

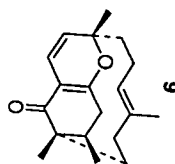
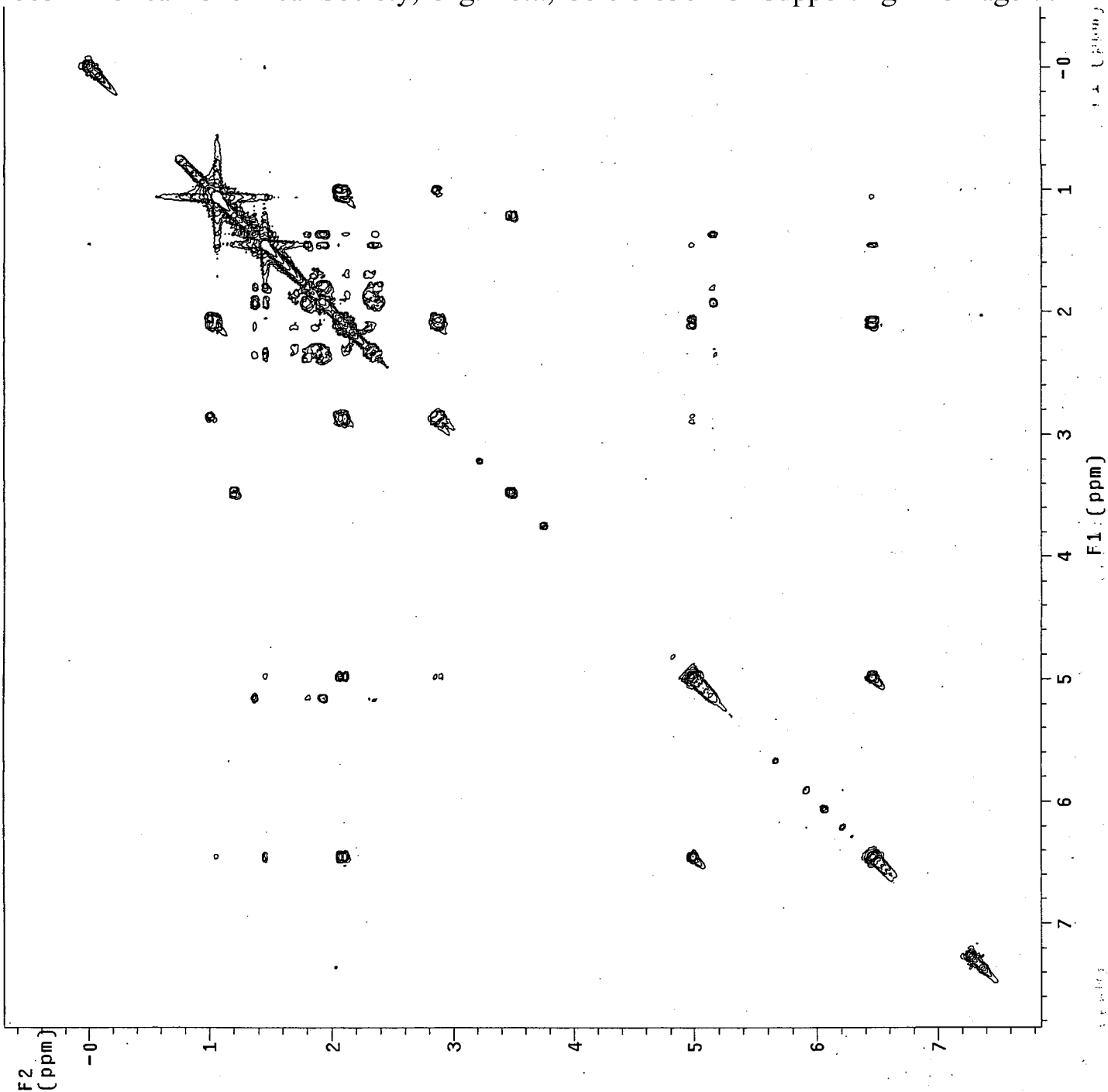
DATA PROCESSING

Sine bell 0.080 sec

F1. DATA PROCESSING

Sine bell 0.030 sec

FT size 1024 x 1024

 ^1H - ^1H - ^2J -COSY

Univ of Minnesota, VI-500

Pulse Sequence: ghmqc

User: rhskpc

Date: Aug. 28, 2003

Solvent: cdcl3

File: 5141hmbc

Starting Time: 10:39:20

Completion Time: 11:29:46

Total acq. time 58 minutes

UNITYplus-500 "spectrum"

Temp. 23.0 C / 296.1 K

PULSE SEQUENCE: ghmqc

Relax. delay 1.382 sec

Acq. time 0.118 sec

Width 4344.5 Hz

2D Width 26315.8 Hz

12 repetitions

192 increments

OBSERVE H1, 499.8671220 MHz

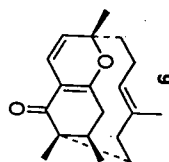
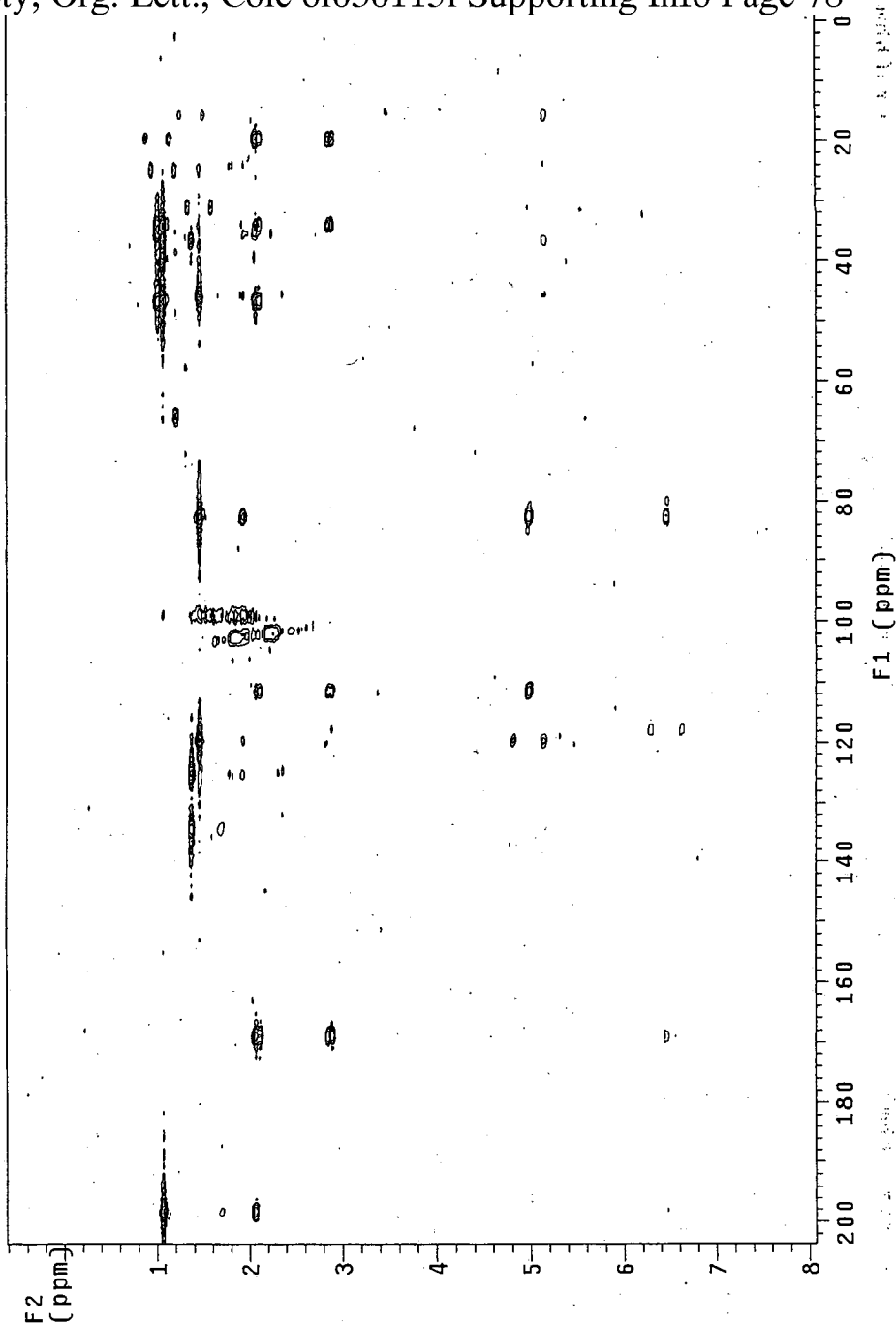
DATA PROCESSING

Sine bell 0.059 sec

F1 DATA PROCESSING

Sine bell 0.004 sec

F1 size 1024 x 1024

 ^1H - ^{13}C HMBC

SUPPLEMENTARY MATERIALS

for
the communication
entitled

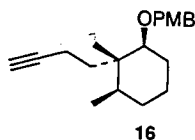
**An Intramolecular Formal *Oxa*-[3 + 3] Cycloaddition
Approach to the ABD System of Phomactin A.**

authored by

Kevin P. Cole and Richard P. Hsung*

Department of Chemistry, University of Minnesota, Minneapolis, MN 55455

X-Ray structural data for compound **16**.



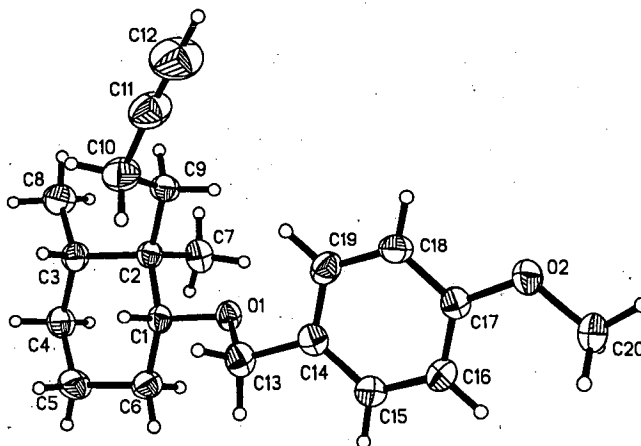
REFERENCE NUMBER: 03070

CRYSTAL STRUCTURE REPORT

$C_{20}H_{28}O_2$

Report prepared for:
K. Cole, Prof. R. Hsung

April 18, 2003



William W. Brennessel
X-Ray Crystallographic Laboratory
Department of Chemistry
University of Minnesota
207 Pleasant St. S.E.
Minneapolis, MN 55455