

**Supporting Information
for
Regioselective palladium-catalyzed ring-opening reactions of
C1-substituted oxabicyclo[2.2.1]hepta-2,5-diene-2,3-
dicarboxylates**

Michael Edmunds, Mohammed Abdul Raheem, Rebecca Boutin, Katrina Tait, and William Tam*

Address: Guelph-Waterloo Centre for Graduate Work in Chemistry and Biochemistry, Department of Chemistry and Biochemistry, University of Guelph, Guelph, Ontario, N1G 2W1, Canada

Email: William Tam - wtam@uoguelph.ca

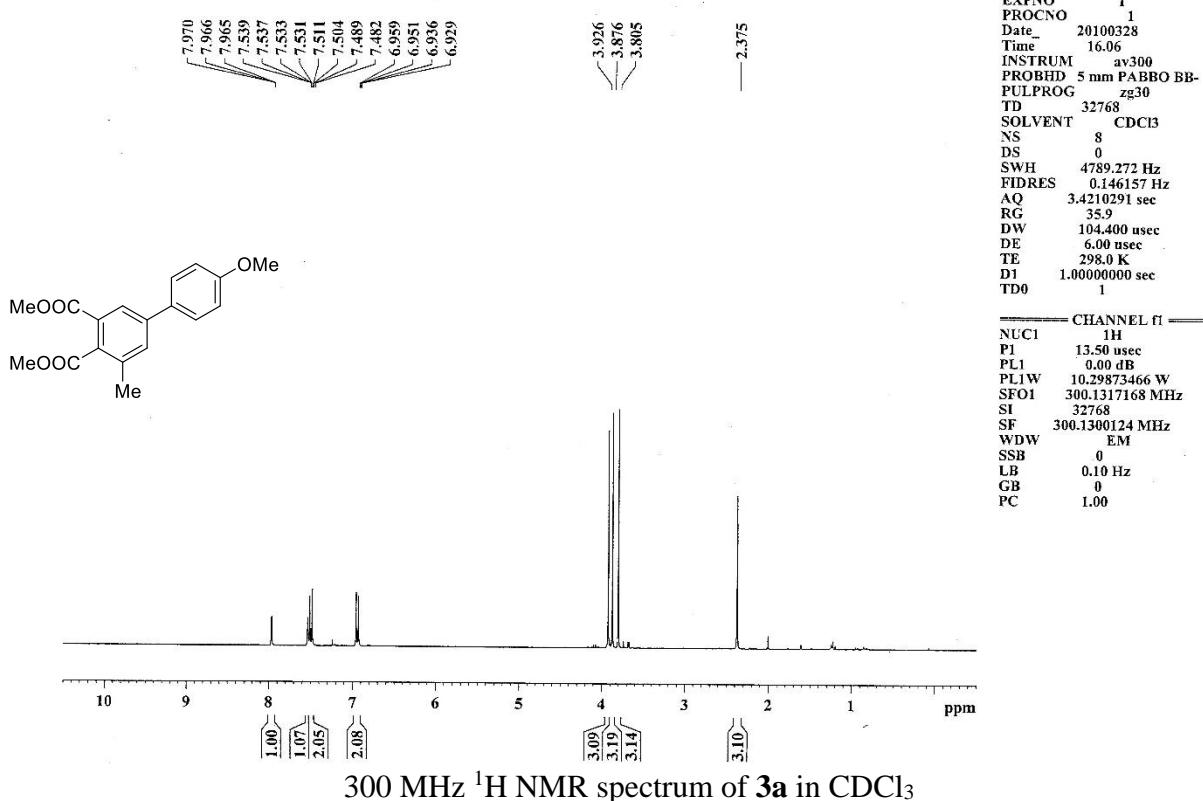
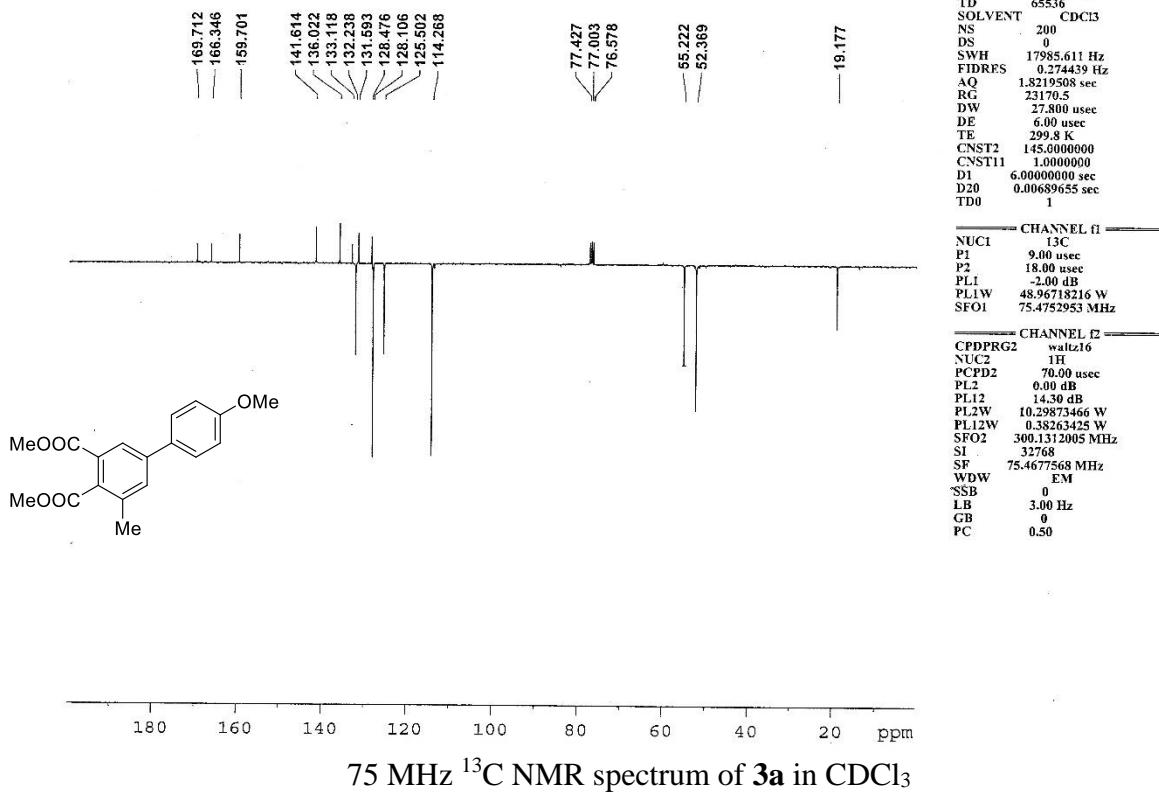
*Corresponding author

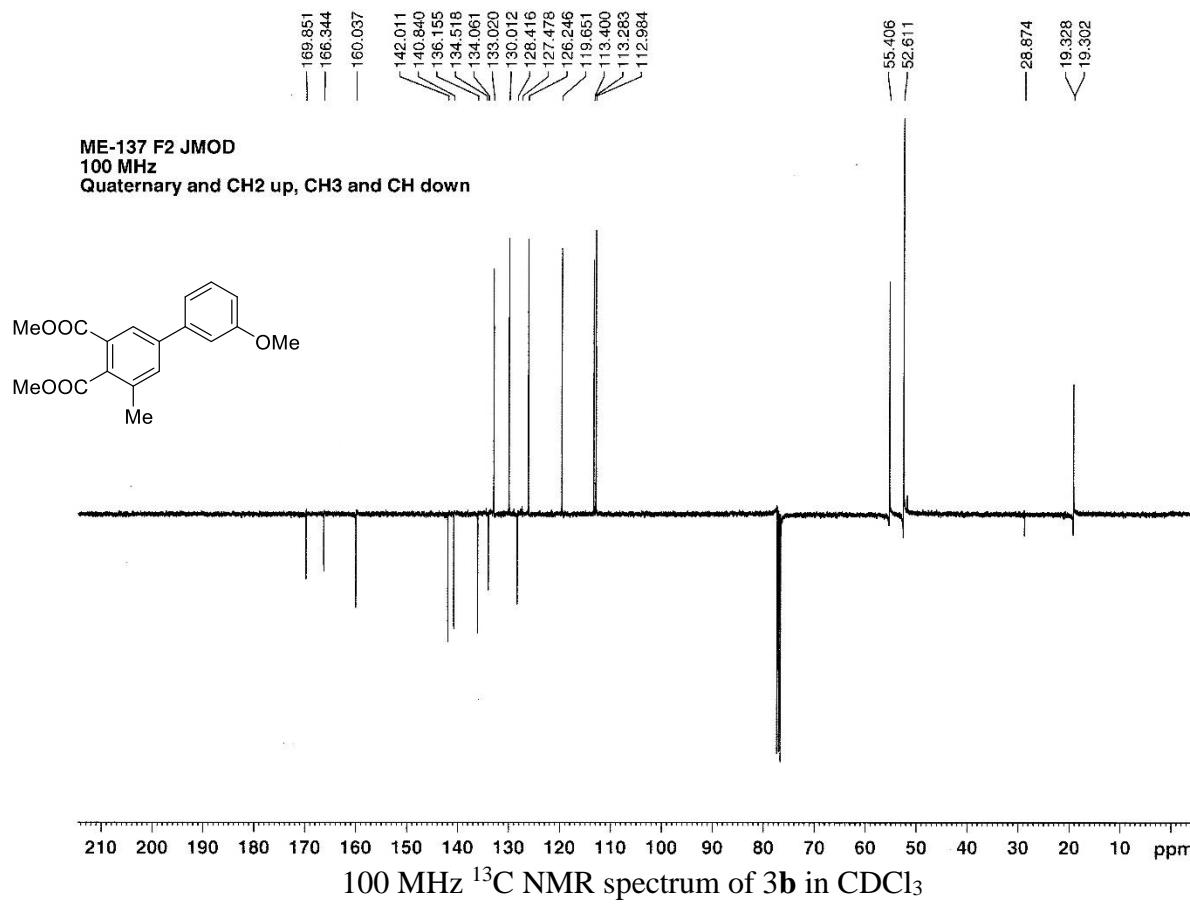
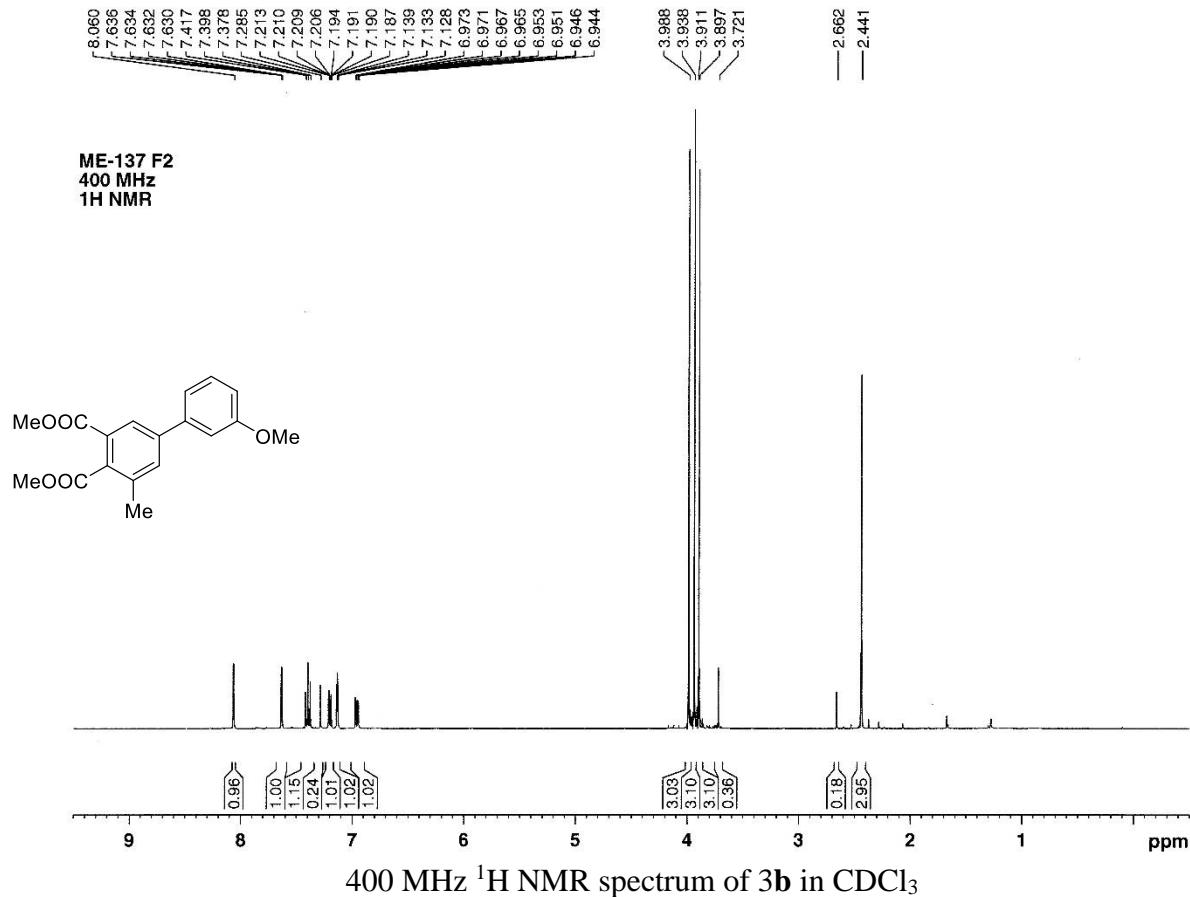
Copies of ^1H and ^{13}C NMR spectra for compounds 3a–l

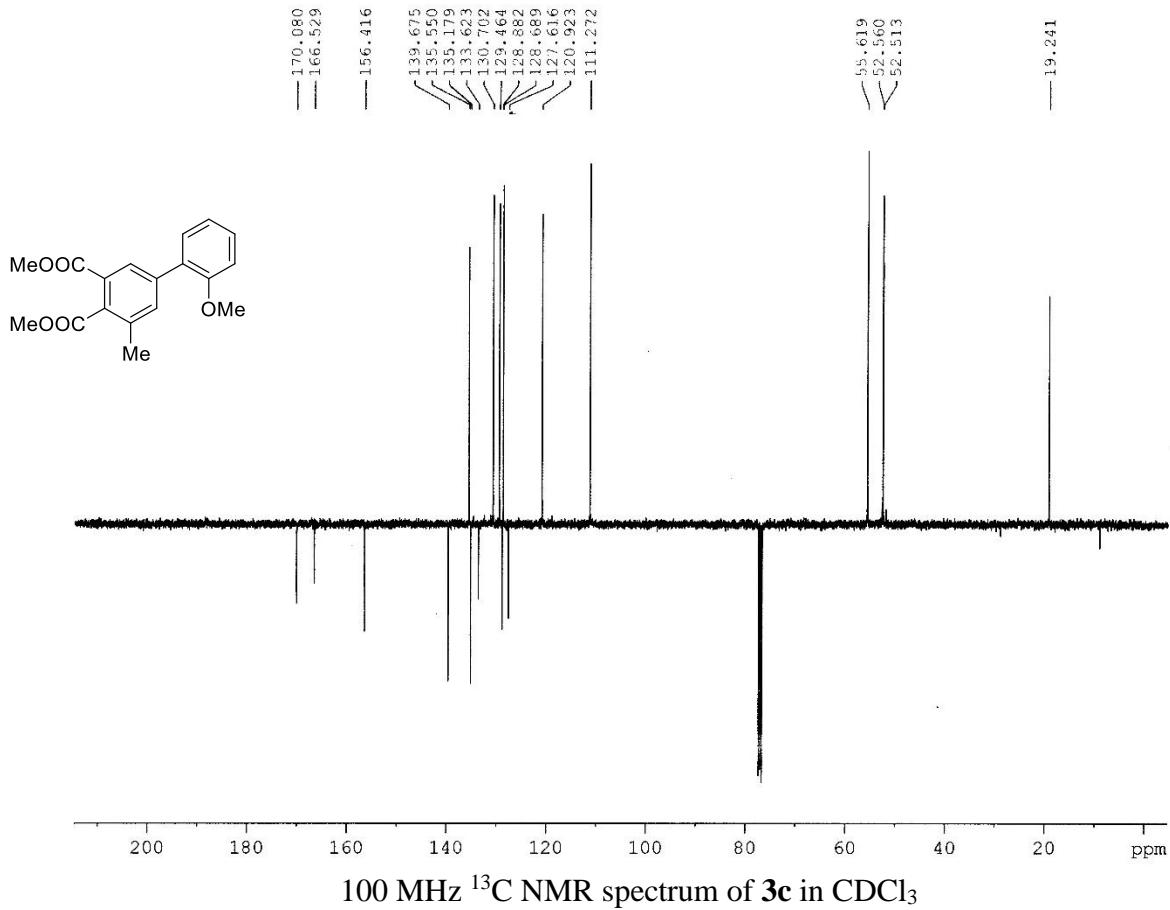
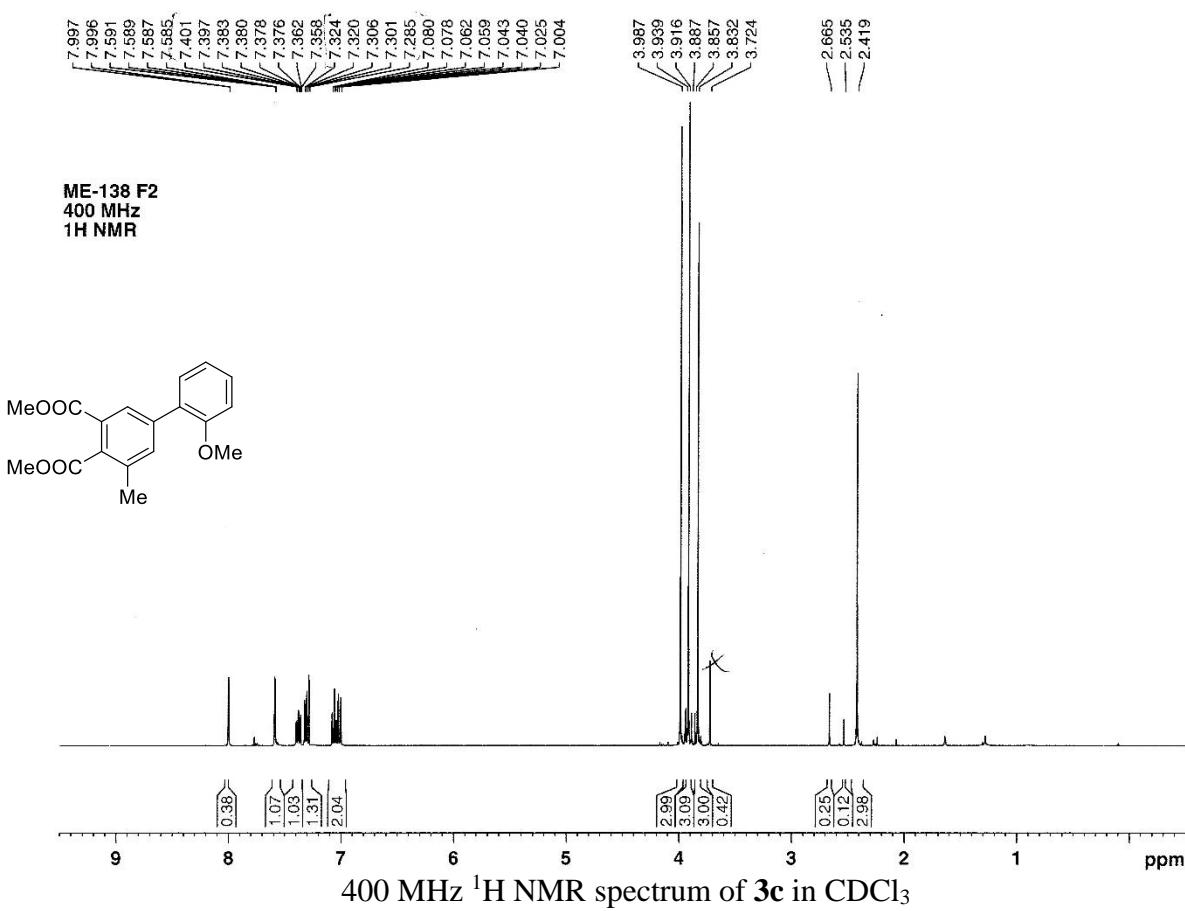
MAR-II-26-1 in CDCl₃

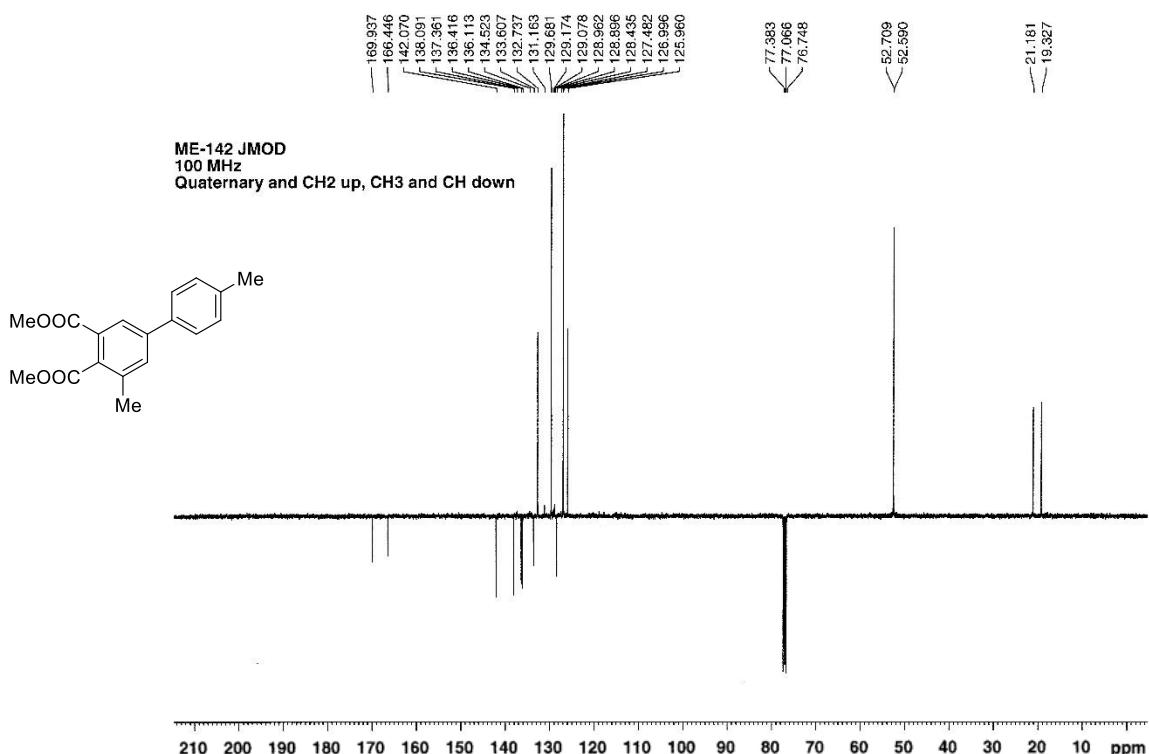
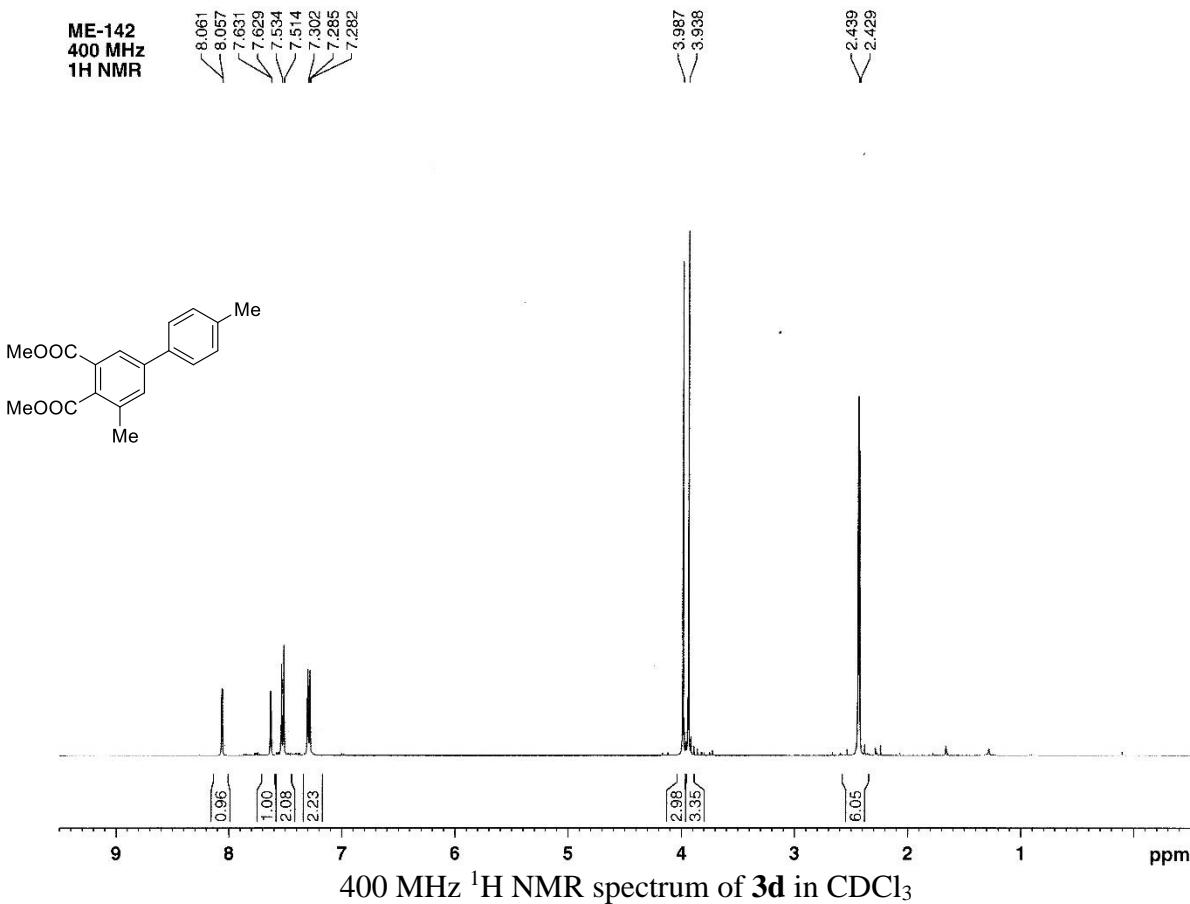
NMR CENTRE
UNIVERSITY OF GUELPH

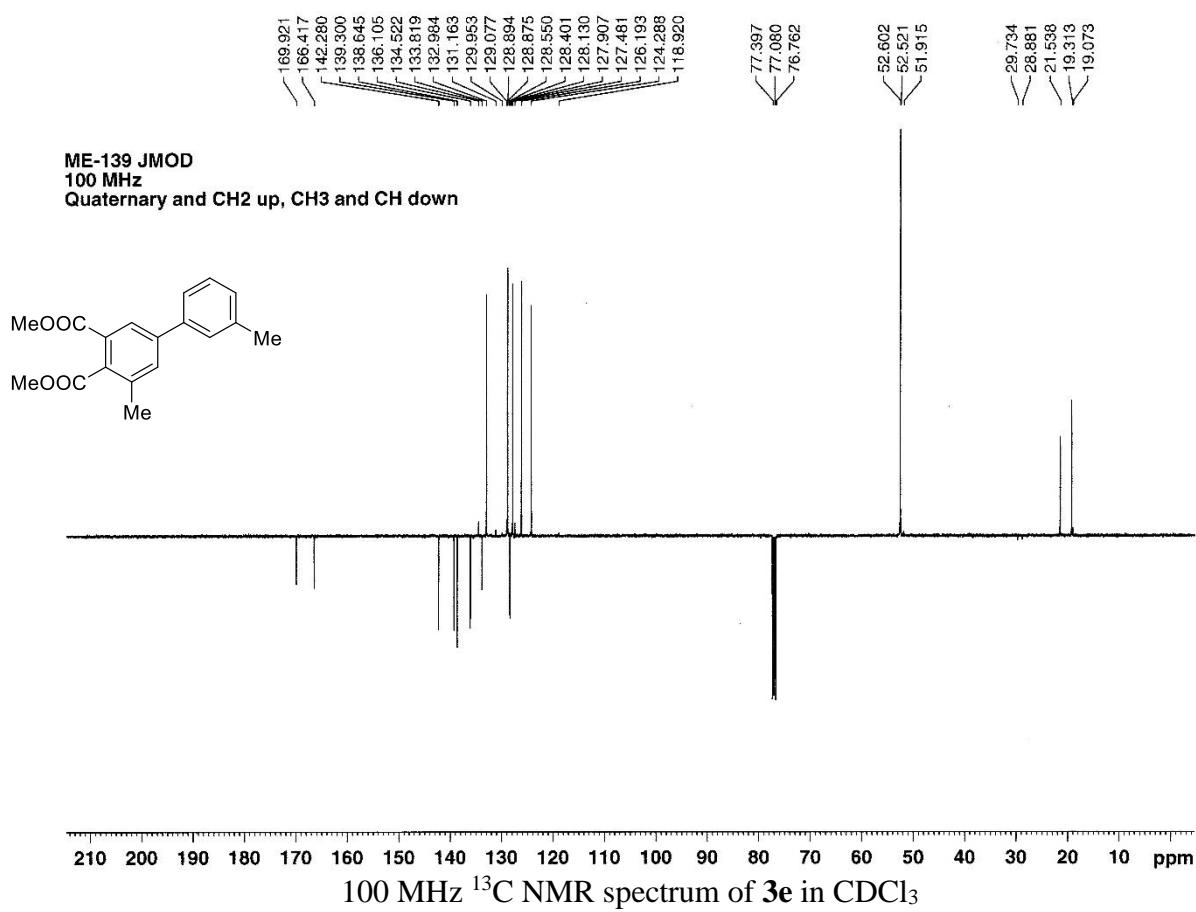
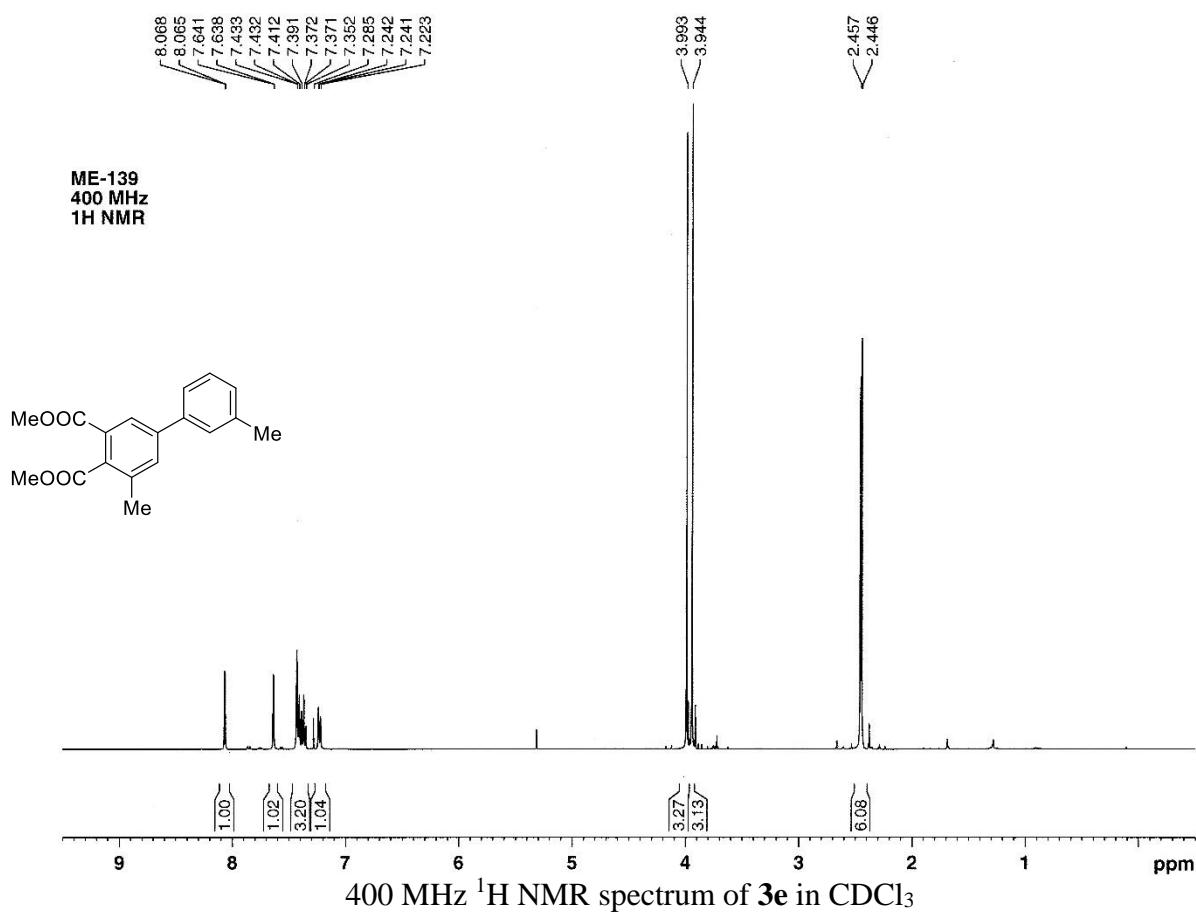
S2

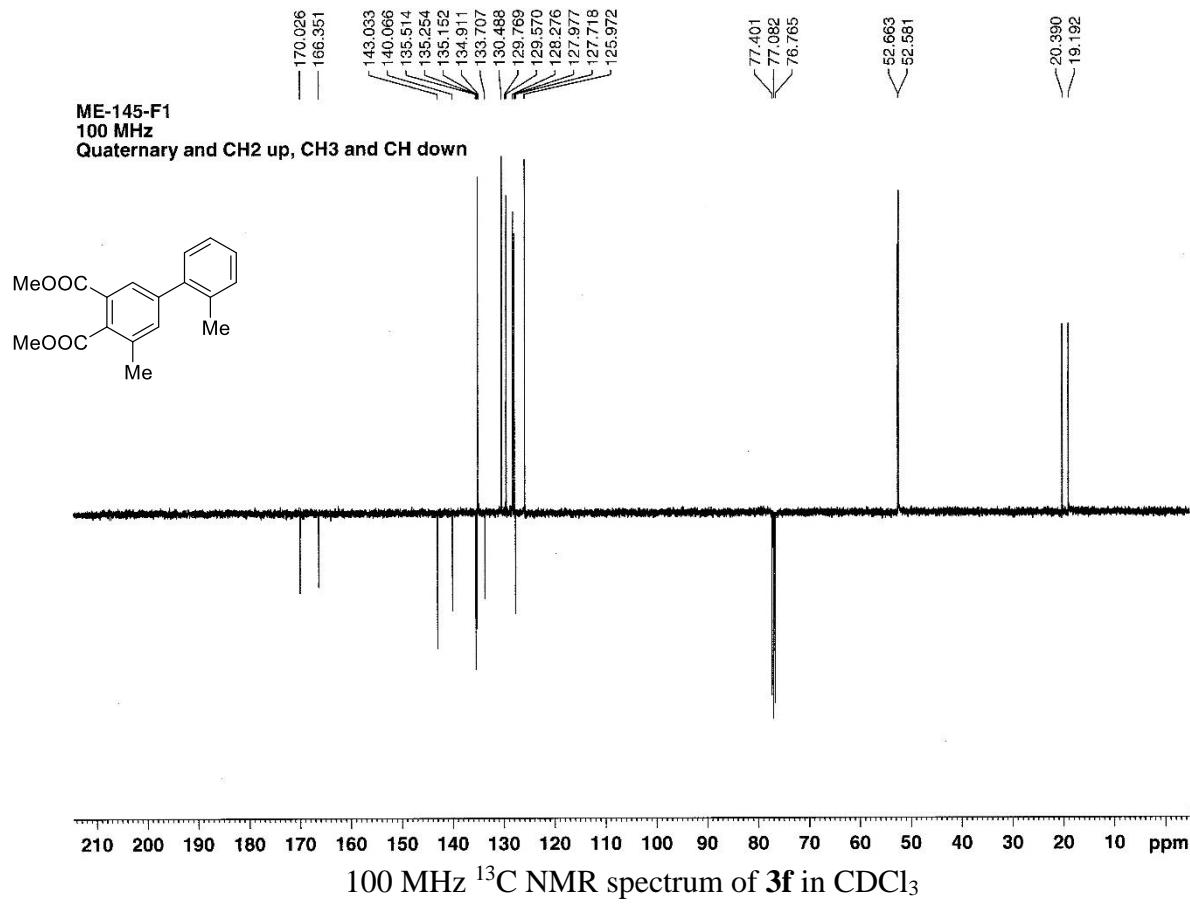
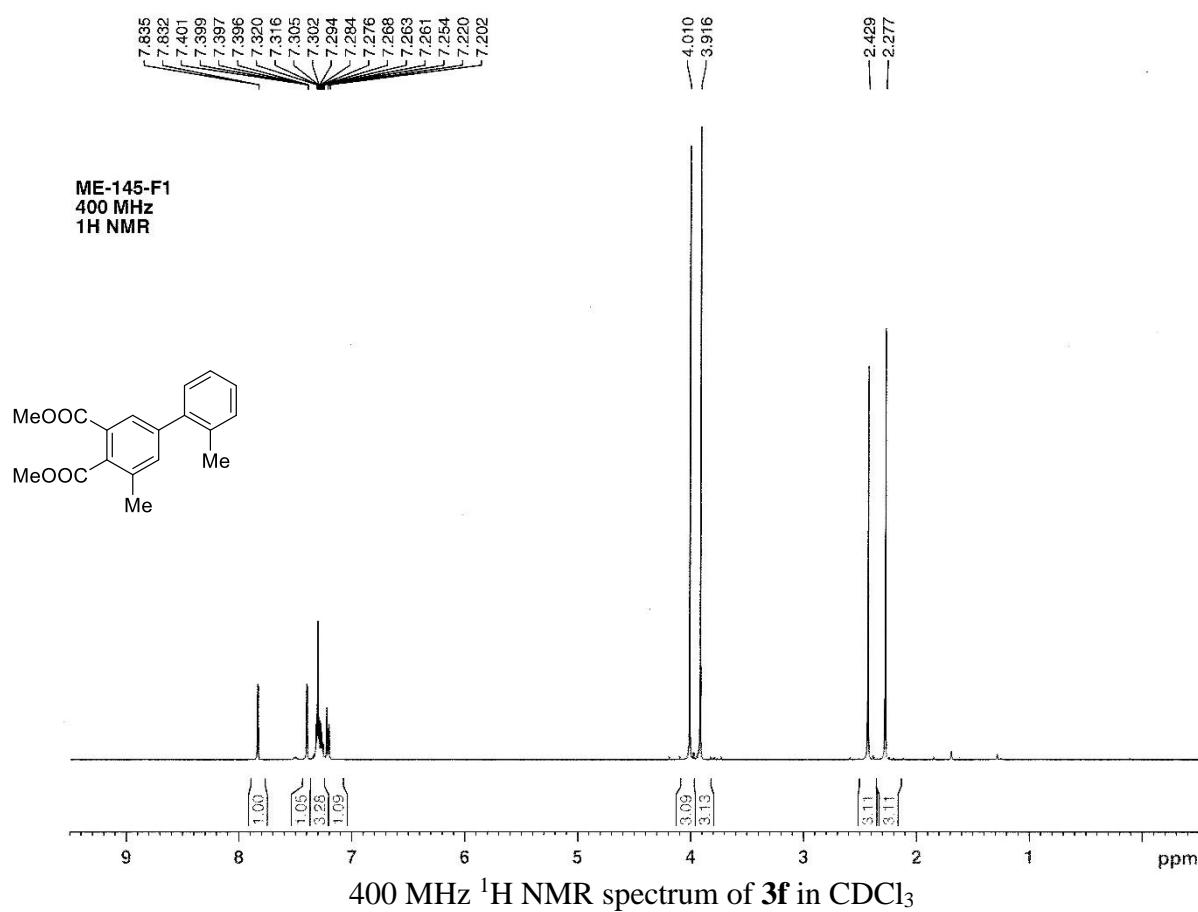
300 MHz ¹H NMR spectrum of 3a in CDCl₃MAR-II-26-1 in CDCl₃
CH2 and C up, CH3 and CH down75 MHz ¹³C NMR spectrum of 3a in CDCl₃

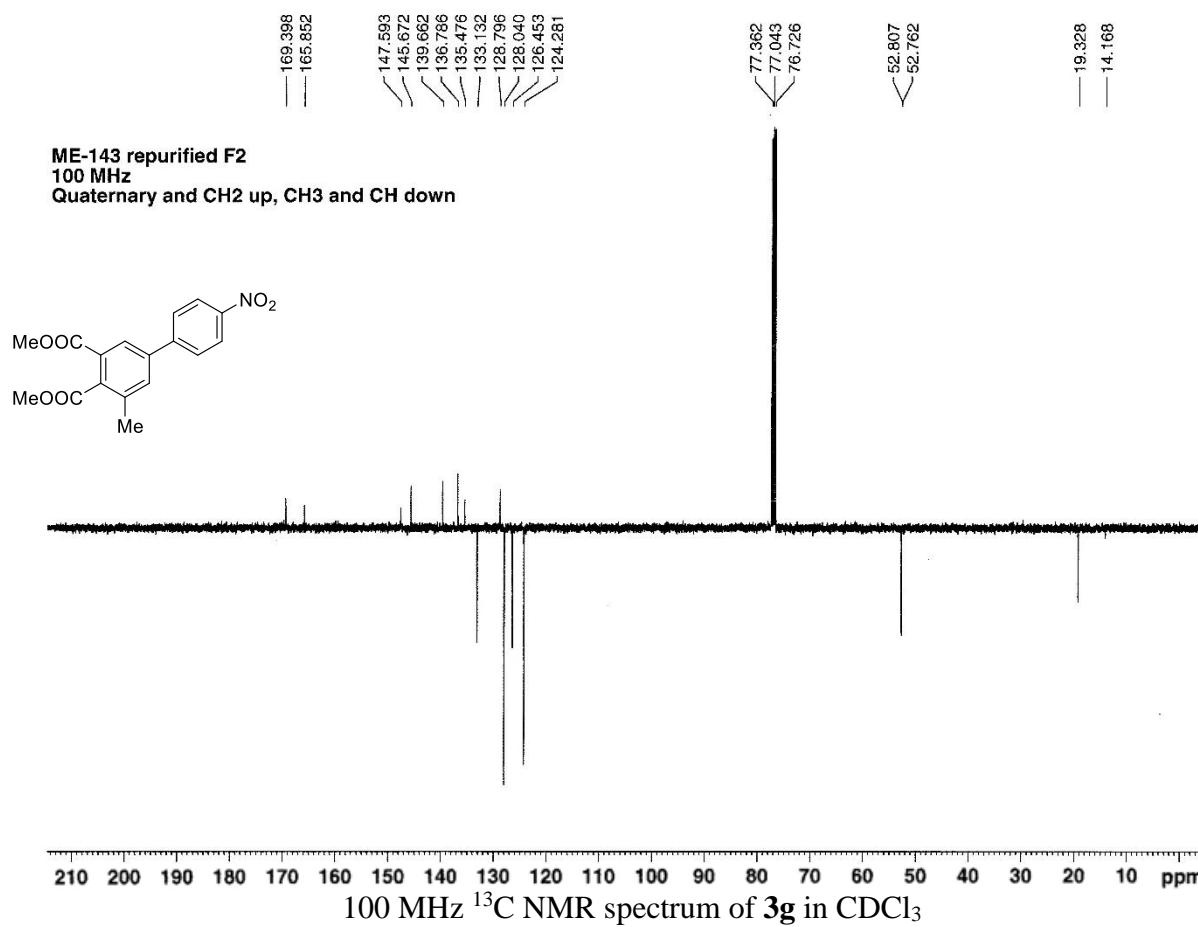
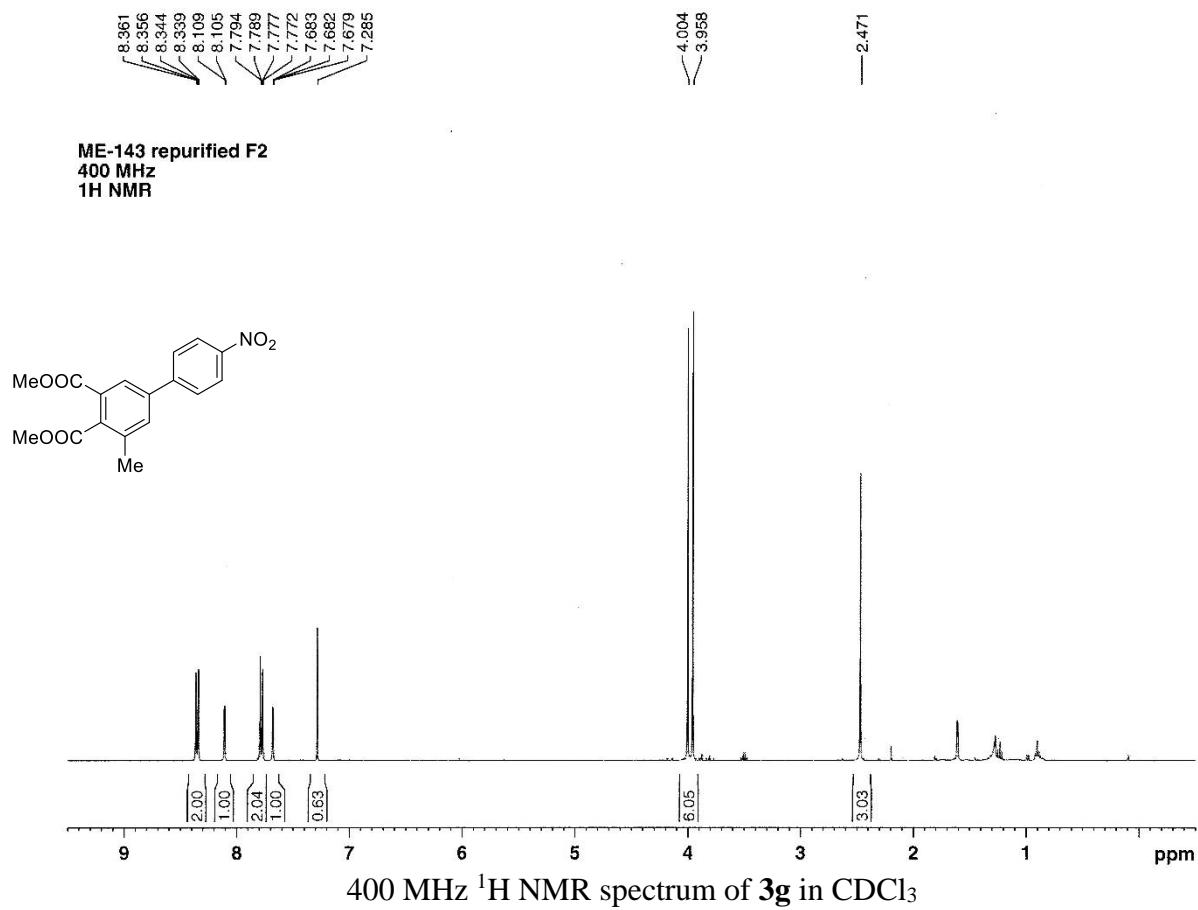


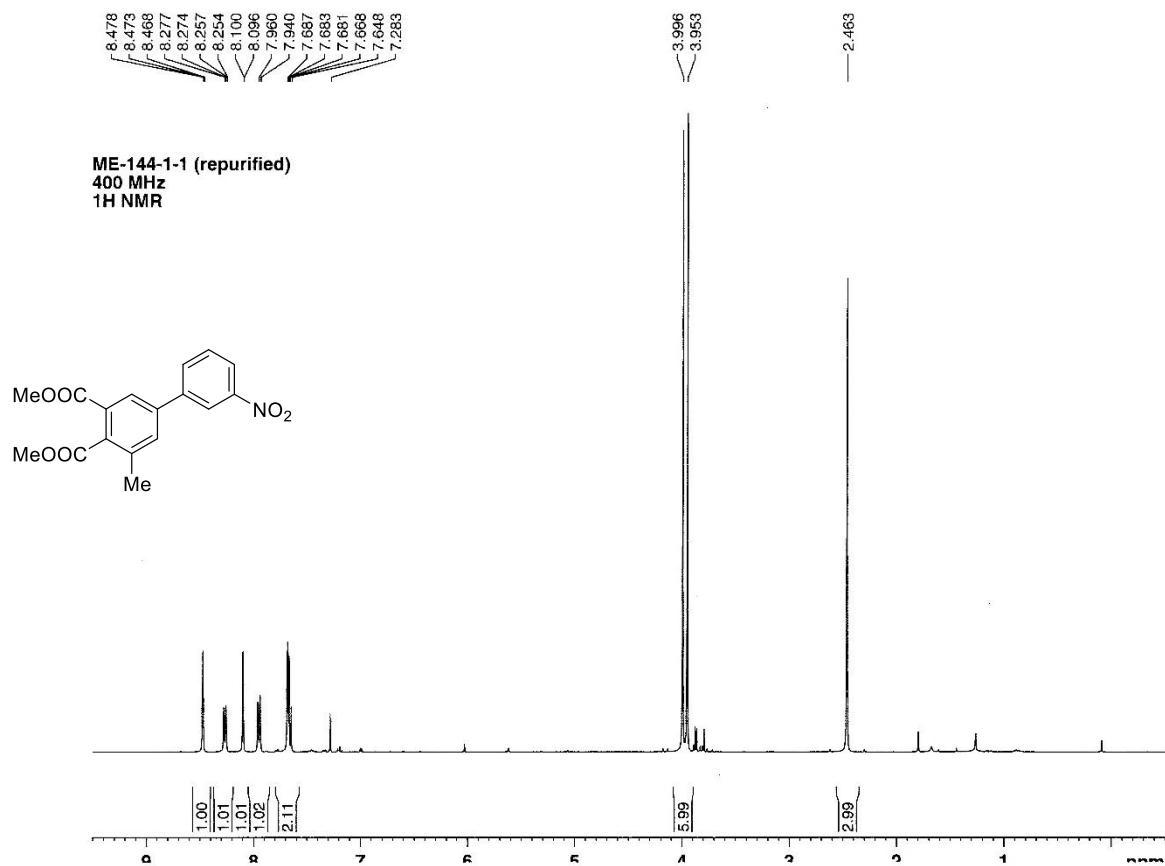
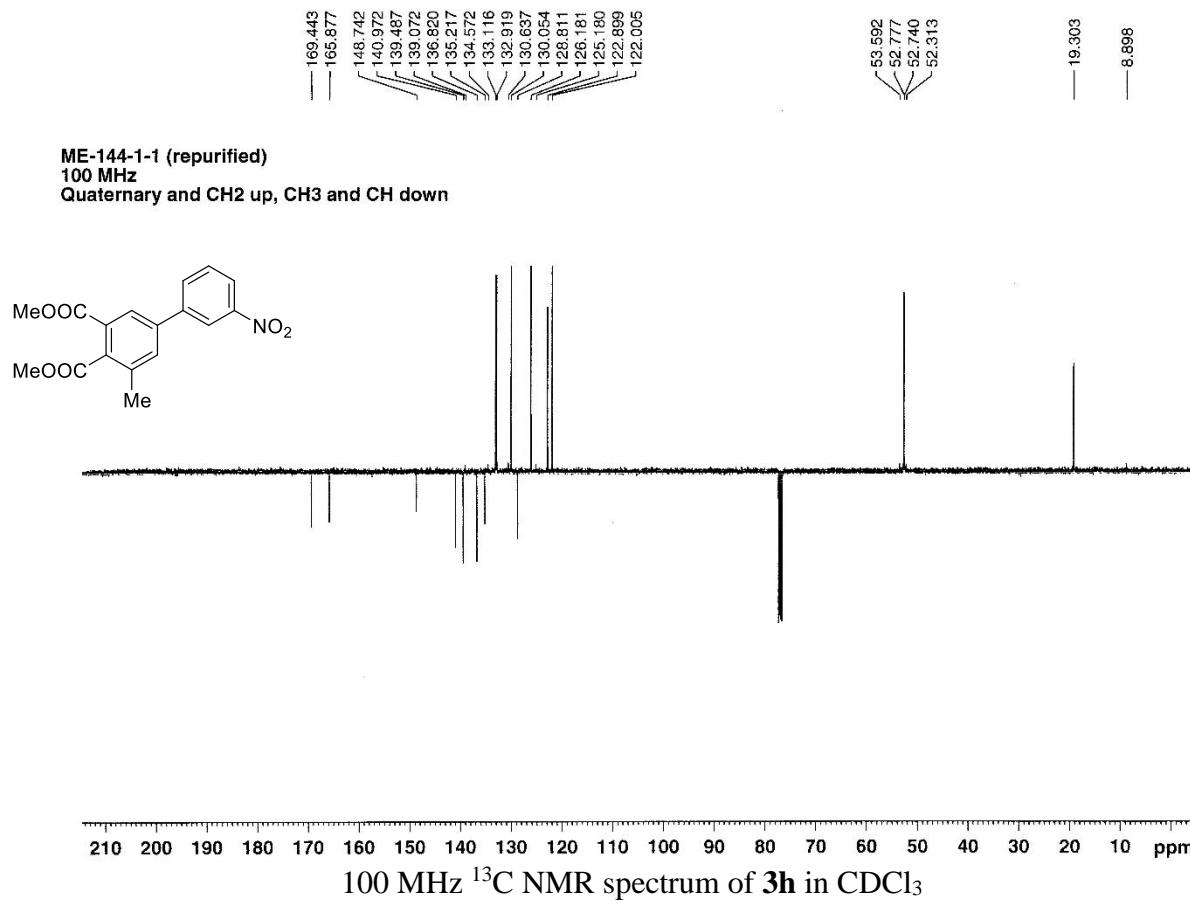


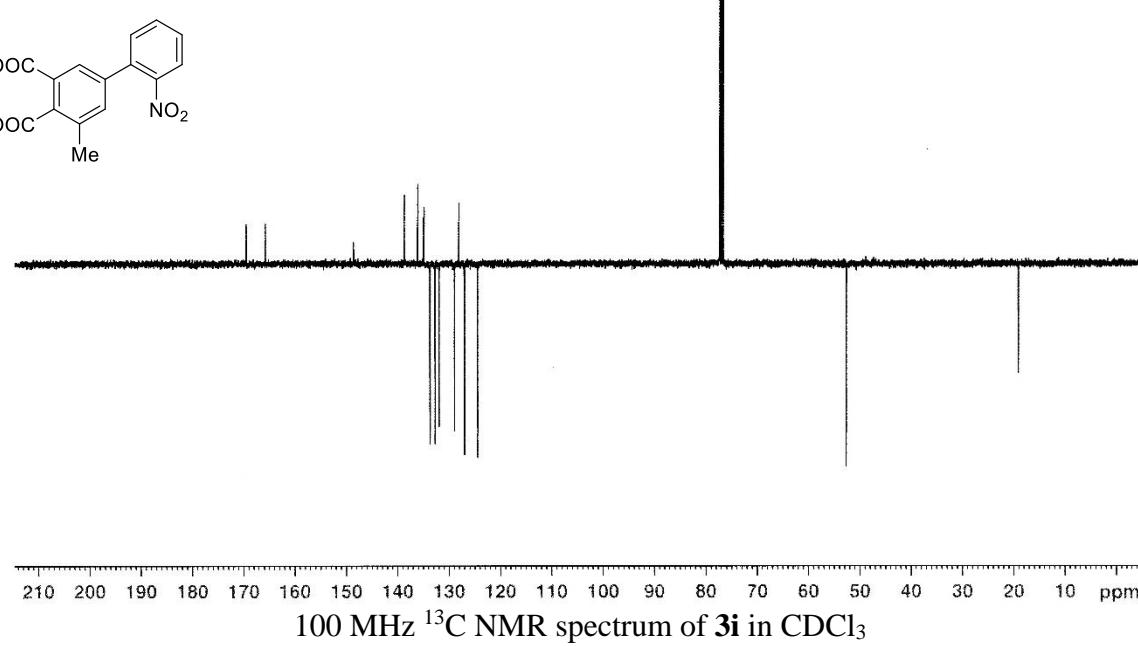
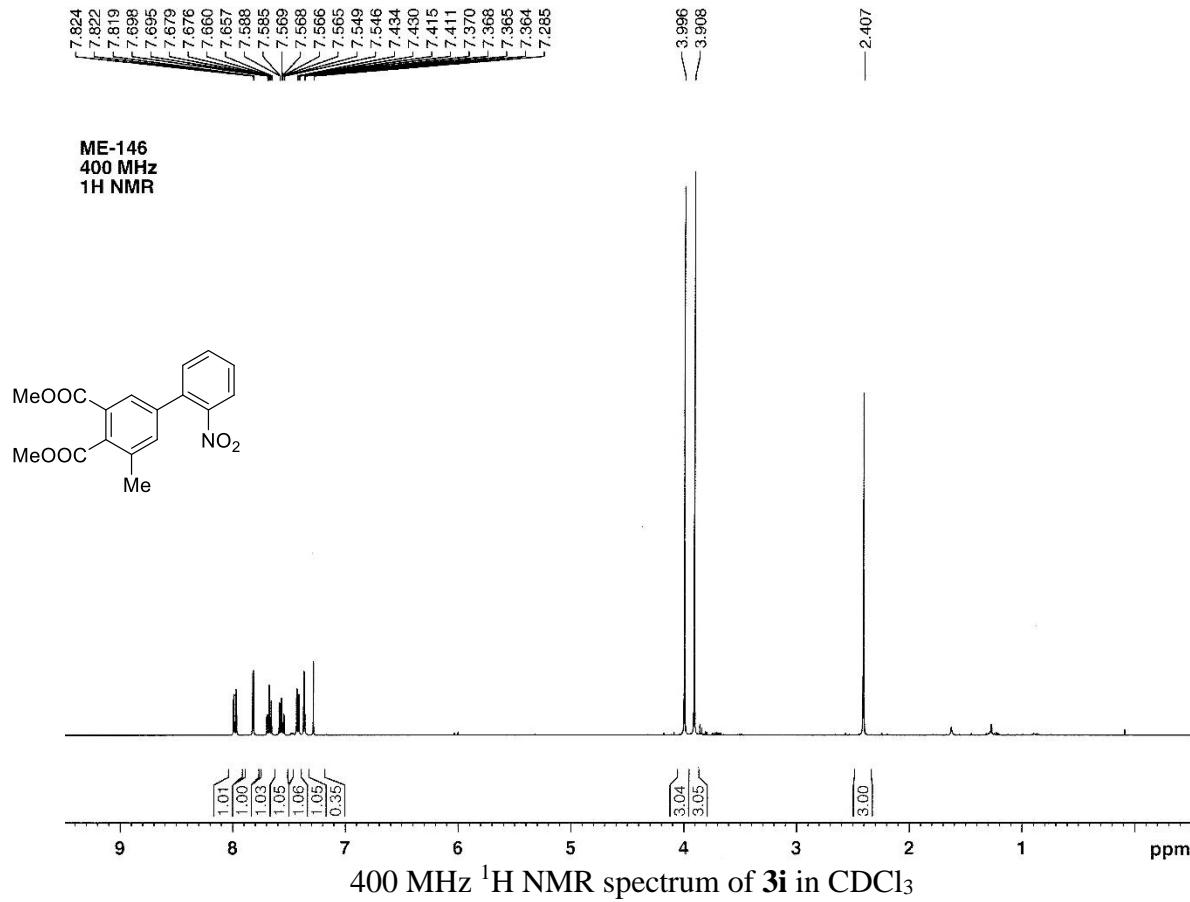


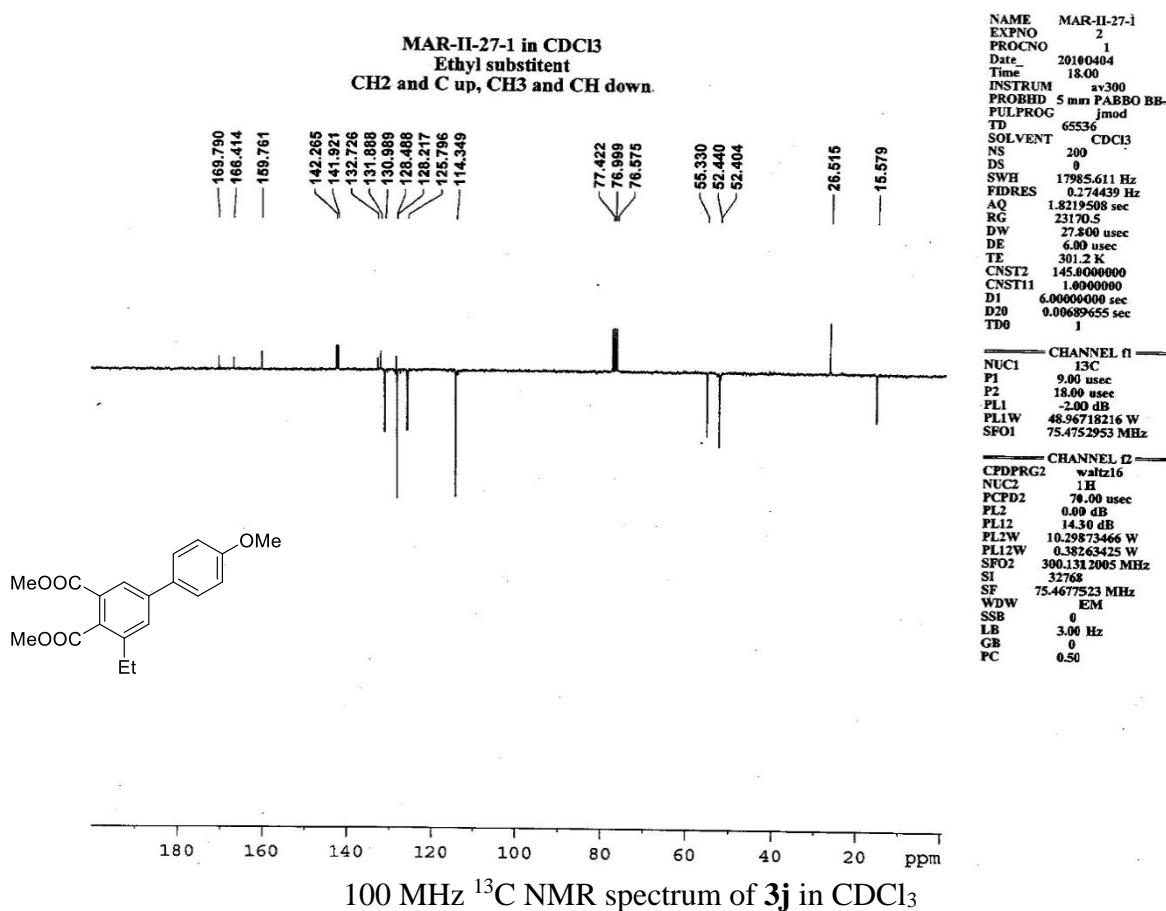
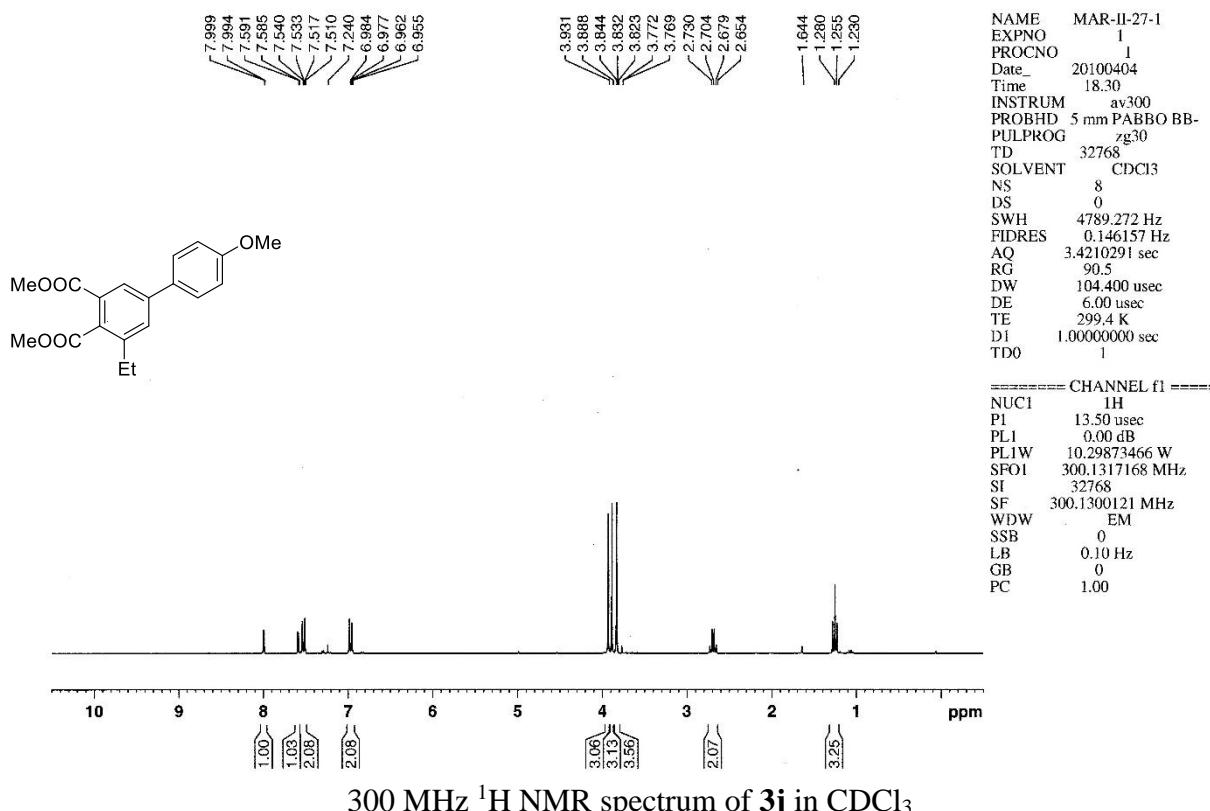


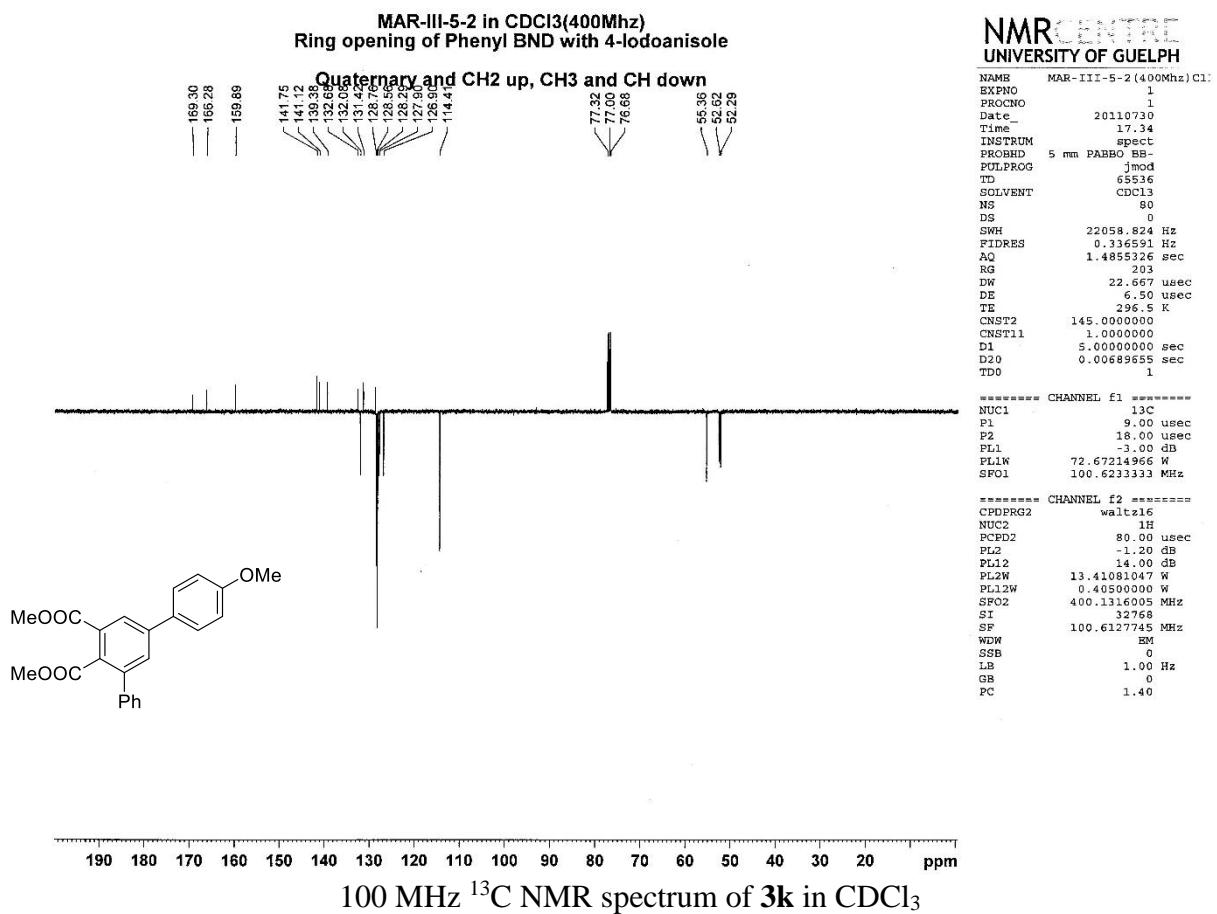
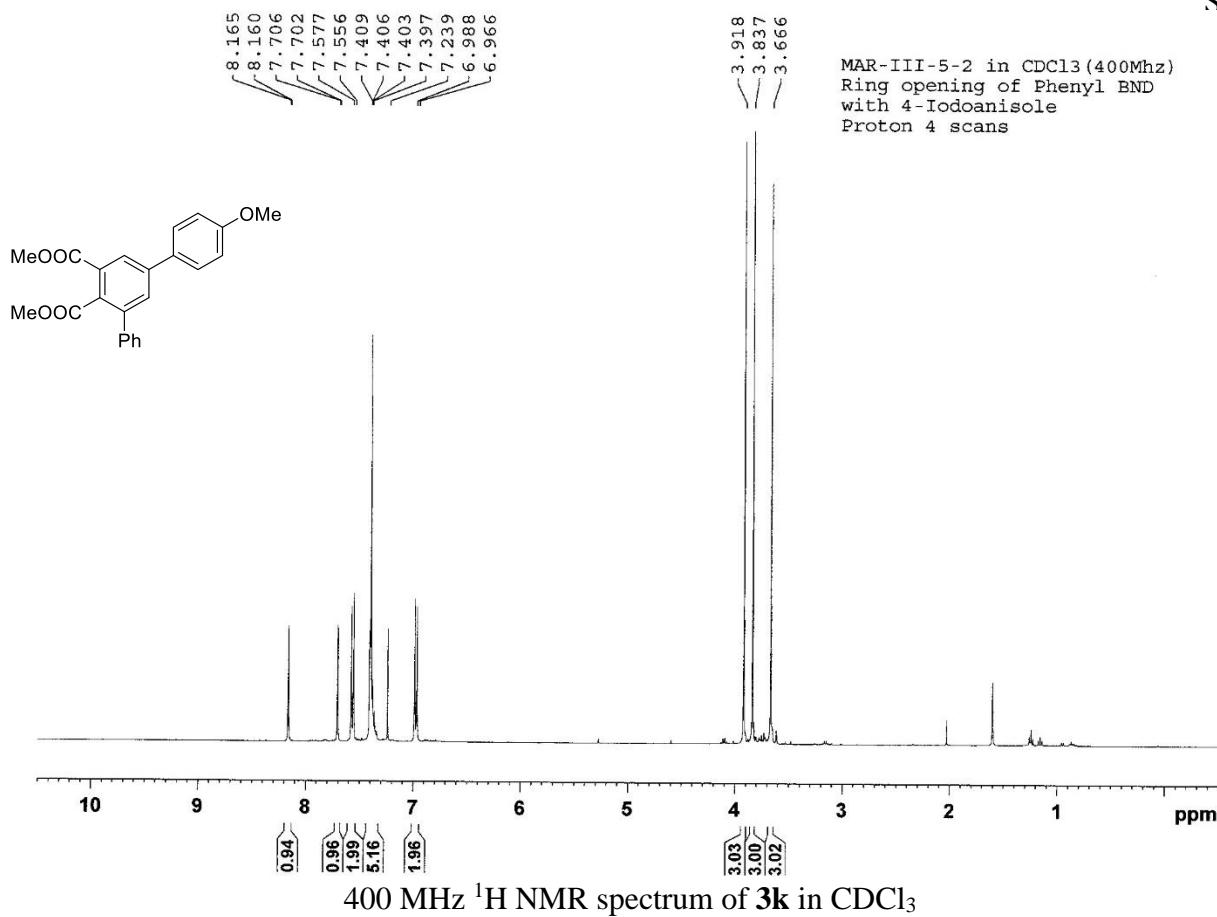




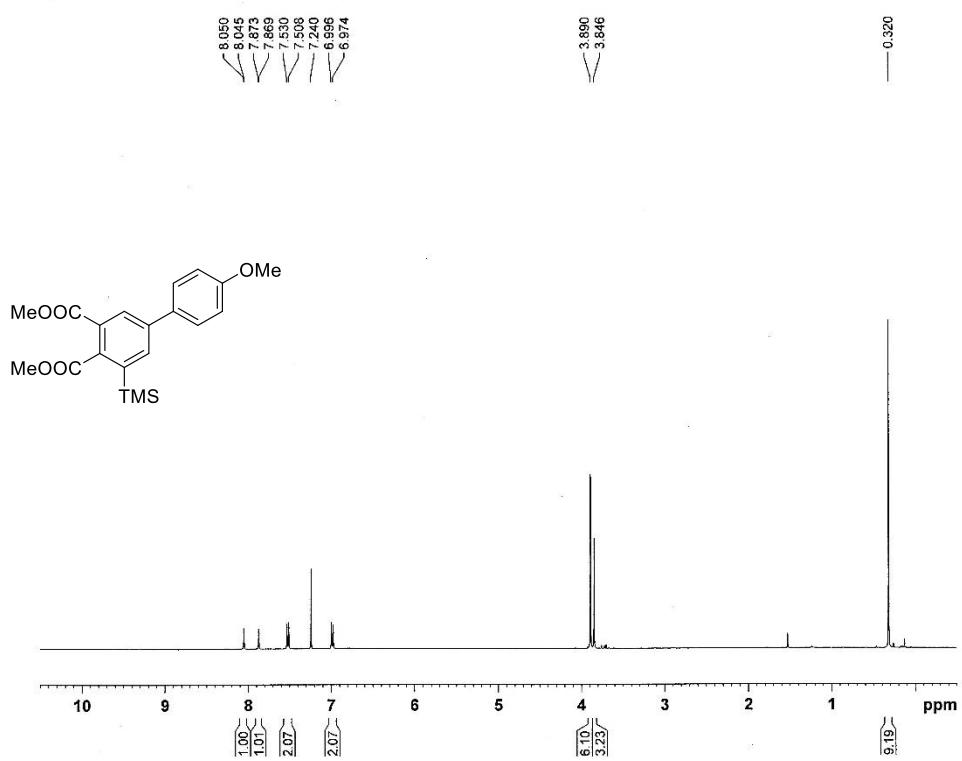
400 MHz ^1H NMR spectrum of **3h** in CDCl_3 100 MHz ^{13}C NMR spectrum of **3h** in CDCl_3



MAR-II-27-1 in CDCl₃
 Ethyl derivative ring open




MAR-III-2-1 in CDCl₃(400MHz)
Repeat



400 MHz ¹H NMR spectrum of **3l** in CDCl₃

NMR
UNIVERSITY OF GUELPH

```

NAME      MAR-III-2-1(400MHz)1H
EXPNO         1
PROCNO        1
Date_   20111008
Time       13.27
INSTRUM spect
PROBHD  5 mm PABBO BBO
PULPROG  zg30
TD      32768
SOLVENT   CDCl3
NS           4
DS            0
SWH      5597.015 Hz
FIDRES    0.170807 Hz
AQ      2.9273248 sec
RG          203
DW      89.333 usec
DE       6.50 usec
TE      295.1 K
D1      1.0000000 sec
TDO          1

```

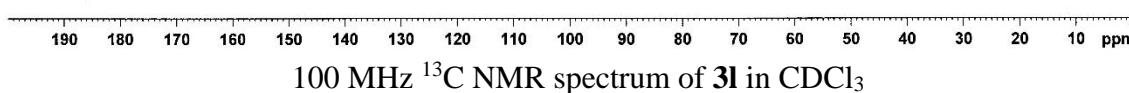
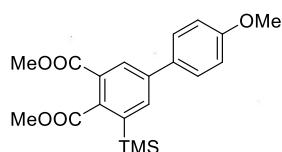
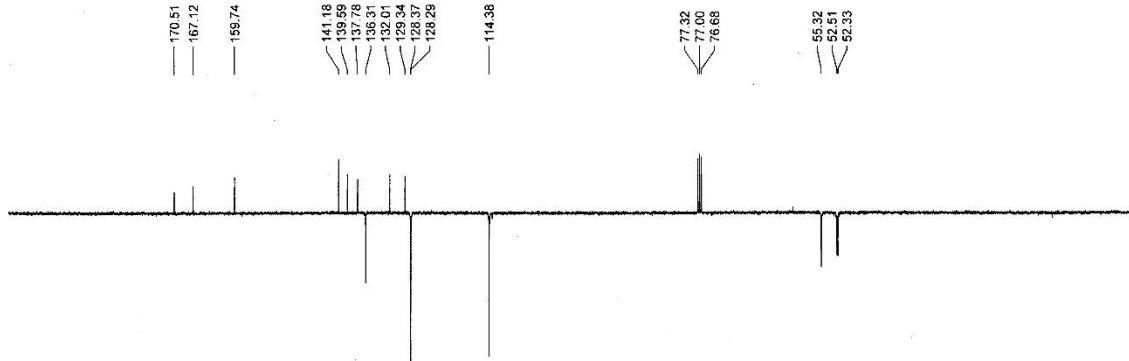
```

===== CHANNEL f1 =====
NUC1        1H
PL        14.00 usec
PL1       -1.20 dB
PL1W     13.41081047 W
SPO1      400.1324710 MHz
SI        32768
SF      400.1300176 MHz
NDW          0
SSB          0
LB        0.30 Hz
GB            0
PC        1.00

```

MAR-III-2-1 in CDCl₃
Ring opng of TMS NBD with 4-Iodoanisole
Quaternary and CH₂ up, CH₃ and CH down

NMR
UNIVERSITY OF GUELPH



100 MHz ¹³C NMR spectrum of **3l** in CDCl₃