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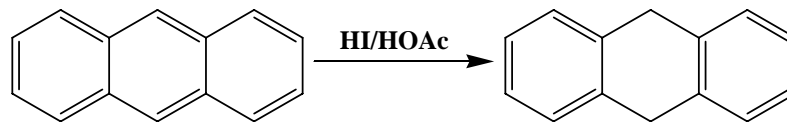
Hydrogen-protected acenes

by **Andreas J. Athans, Jonathan B. Briggs, Wenling Jia, and
Glen P. Miller***

Department of Chemistry and Materials Science Program
University of New Hampshire
Durham, NH 03824

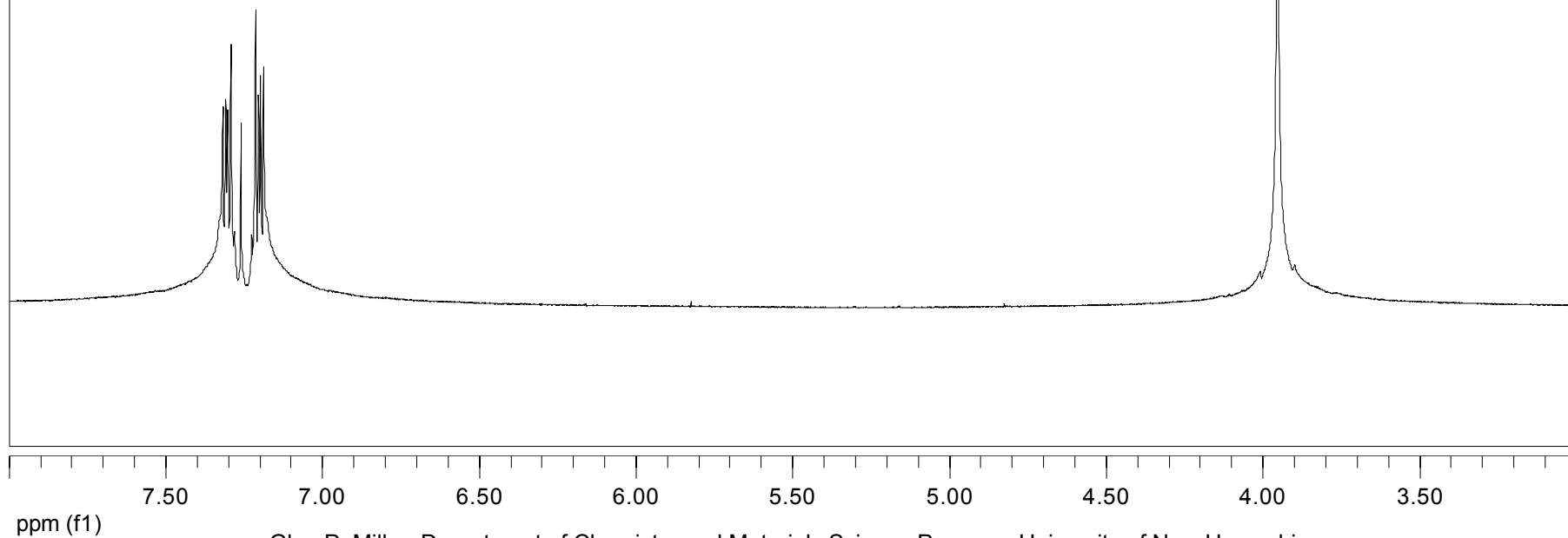
glen.miller@unh.edu

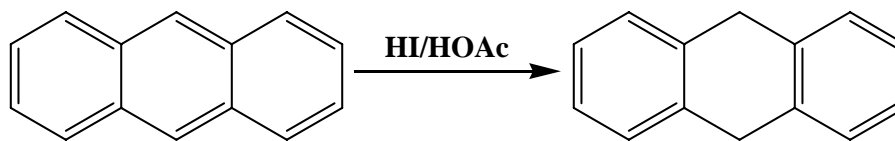
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January 19, 2007



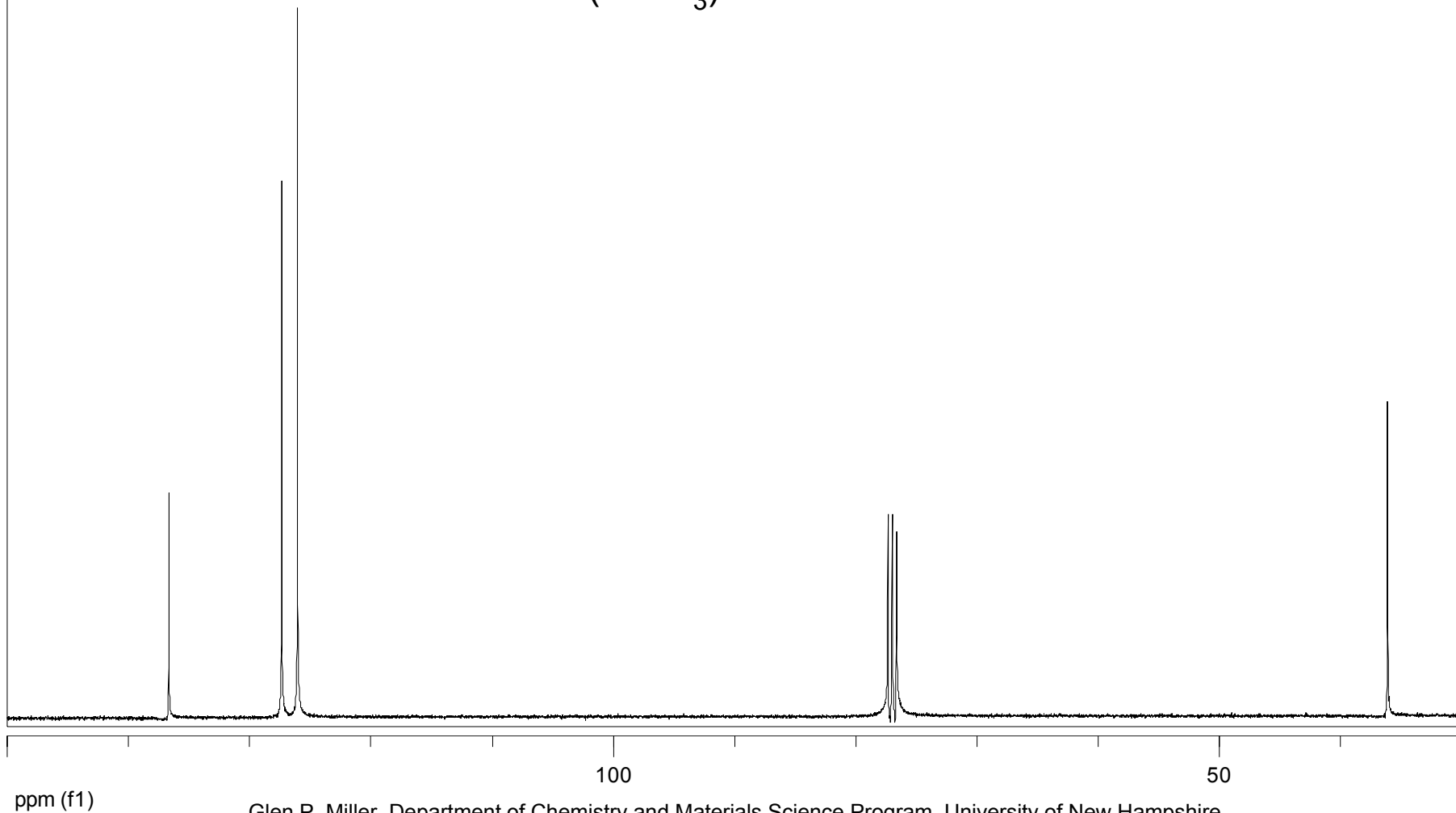
^1H NMR (CDCl_3) of crude reaction mixture

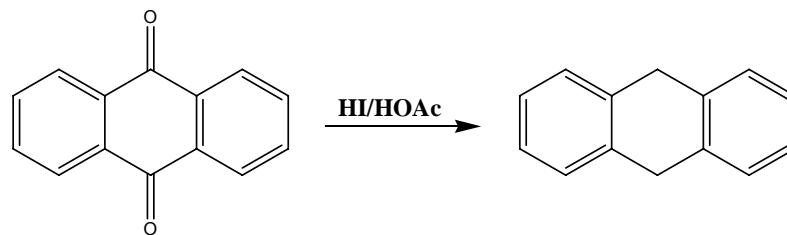
CHCl_3 impurity at 7.27 ppm





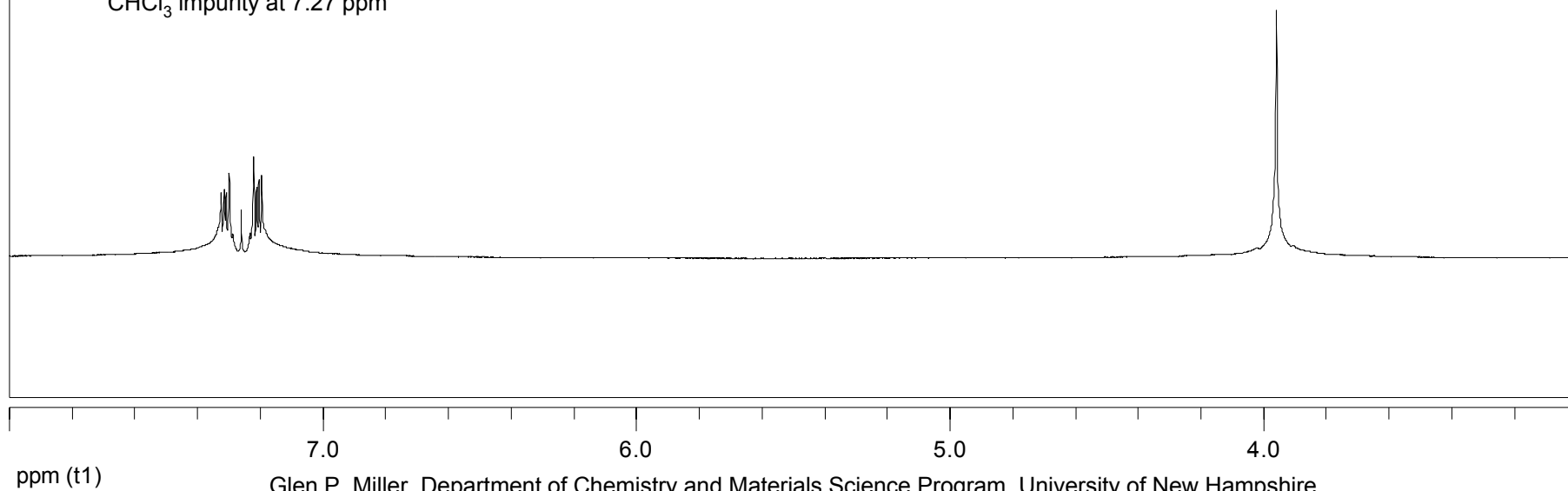
^{13}C NMR (CDCl_3) of crude reaction mixture

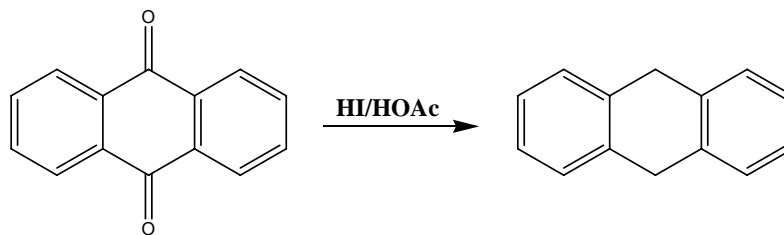




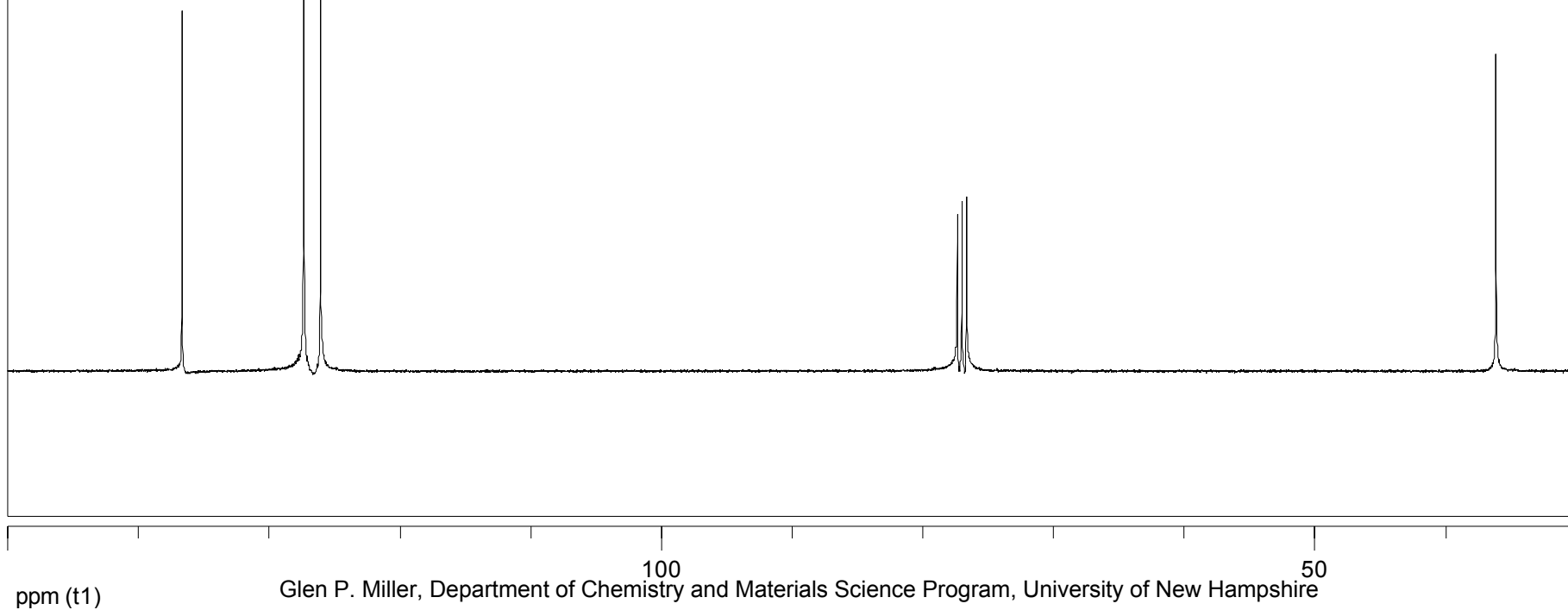
^1H NMR (CDCl_3) of crude reaction mixture

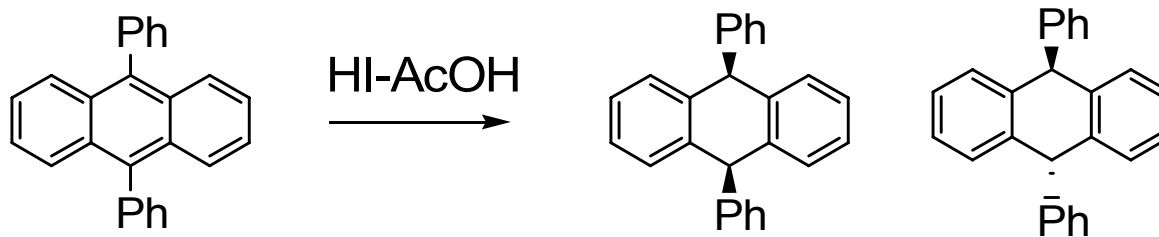
CHCl_3 impurity at 7.27 ppm



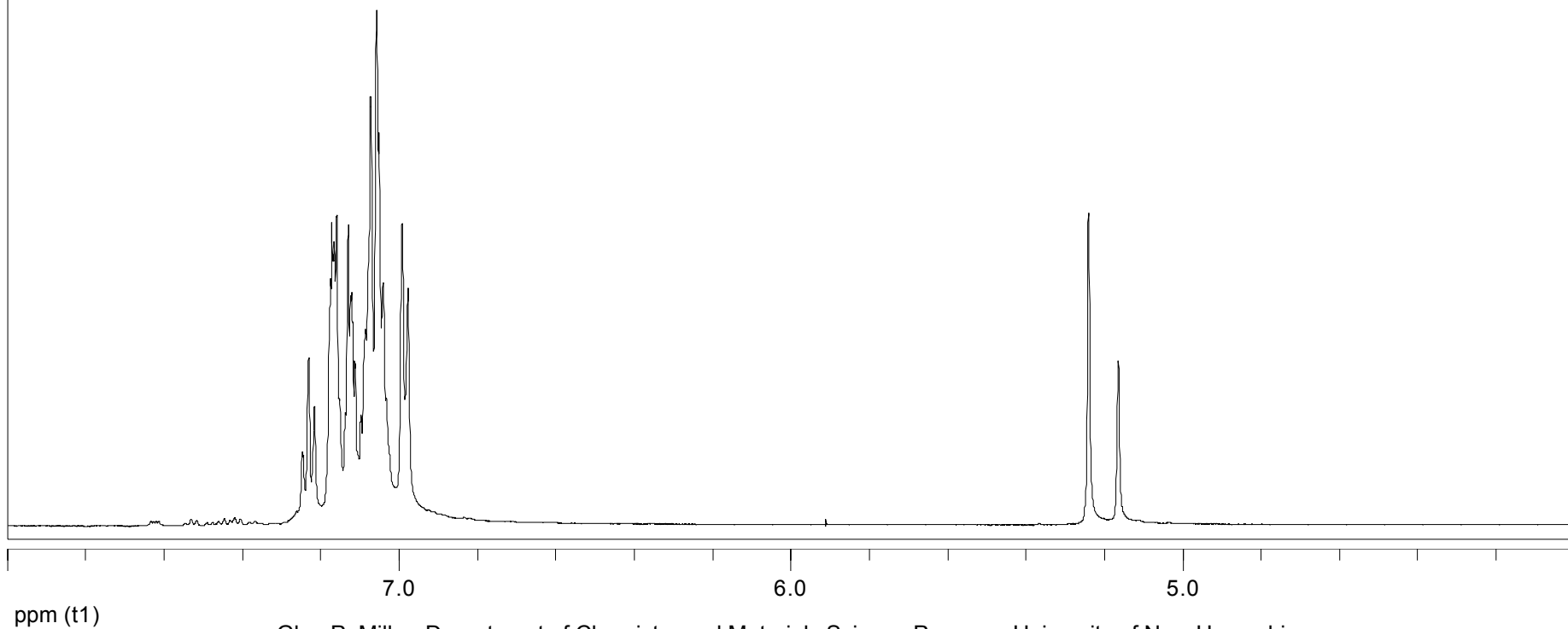


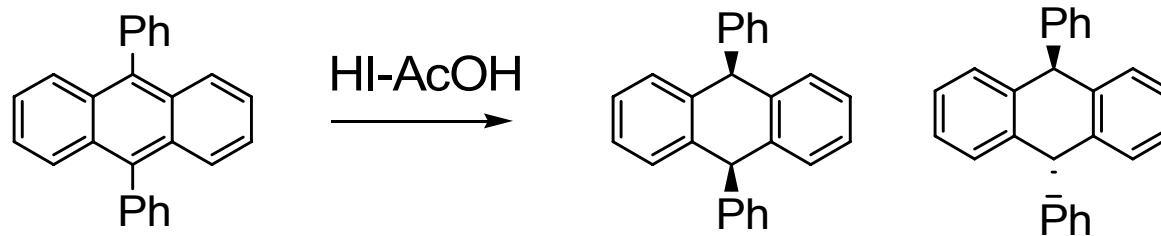
^{13}C NMR (CDCl_3) of crude reaction mixture



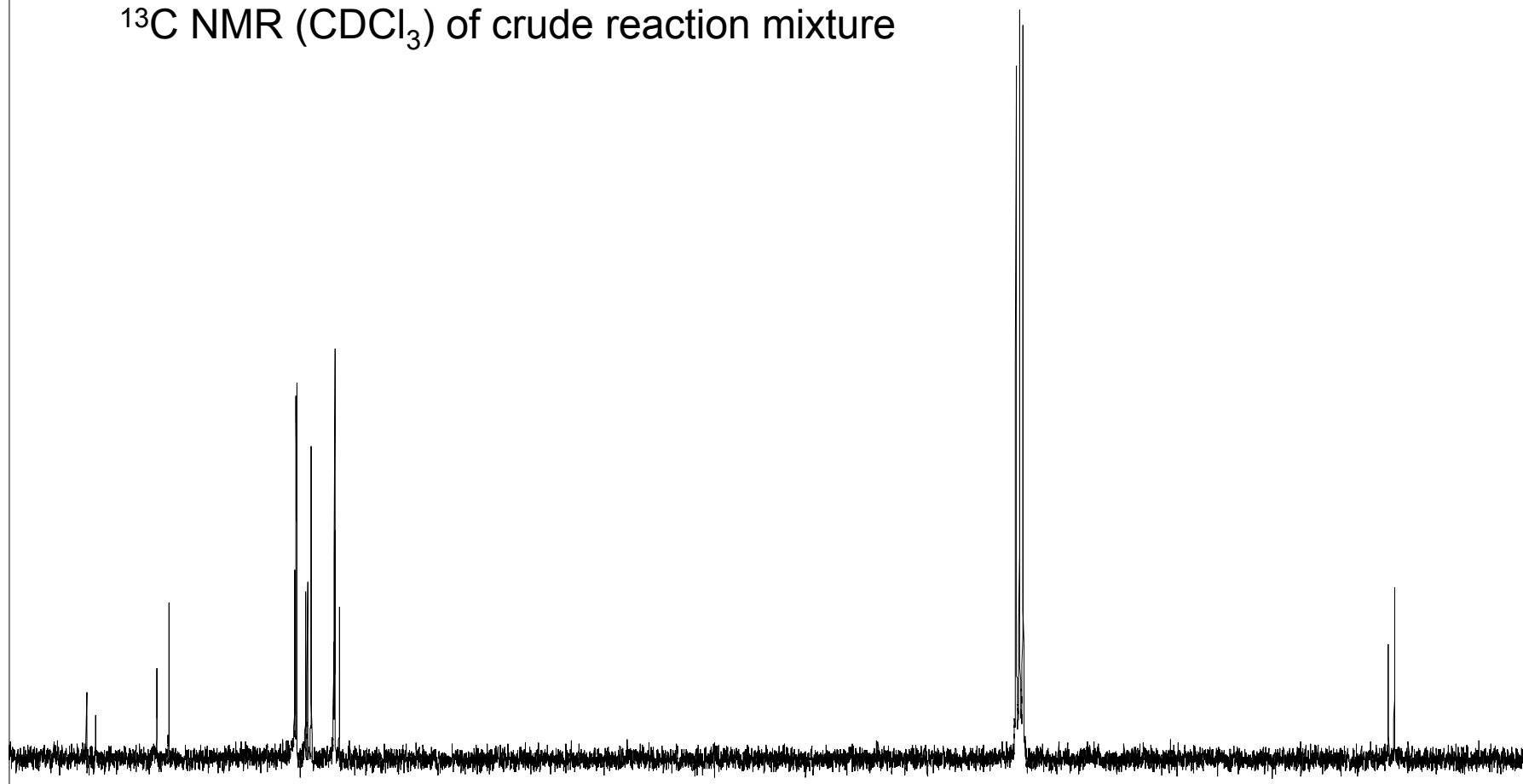


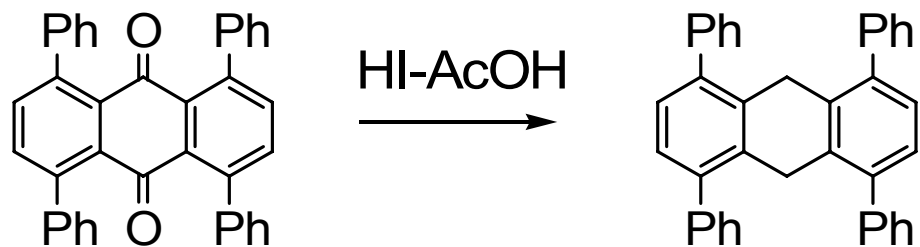
^1H NMR (CDCl_3) of crude reaction mixture



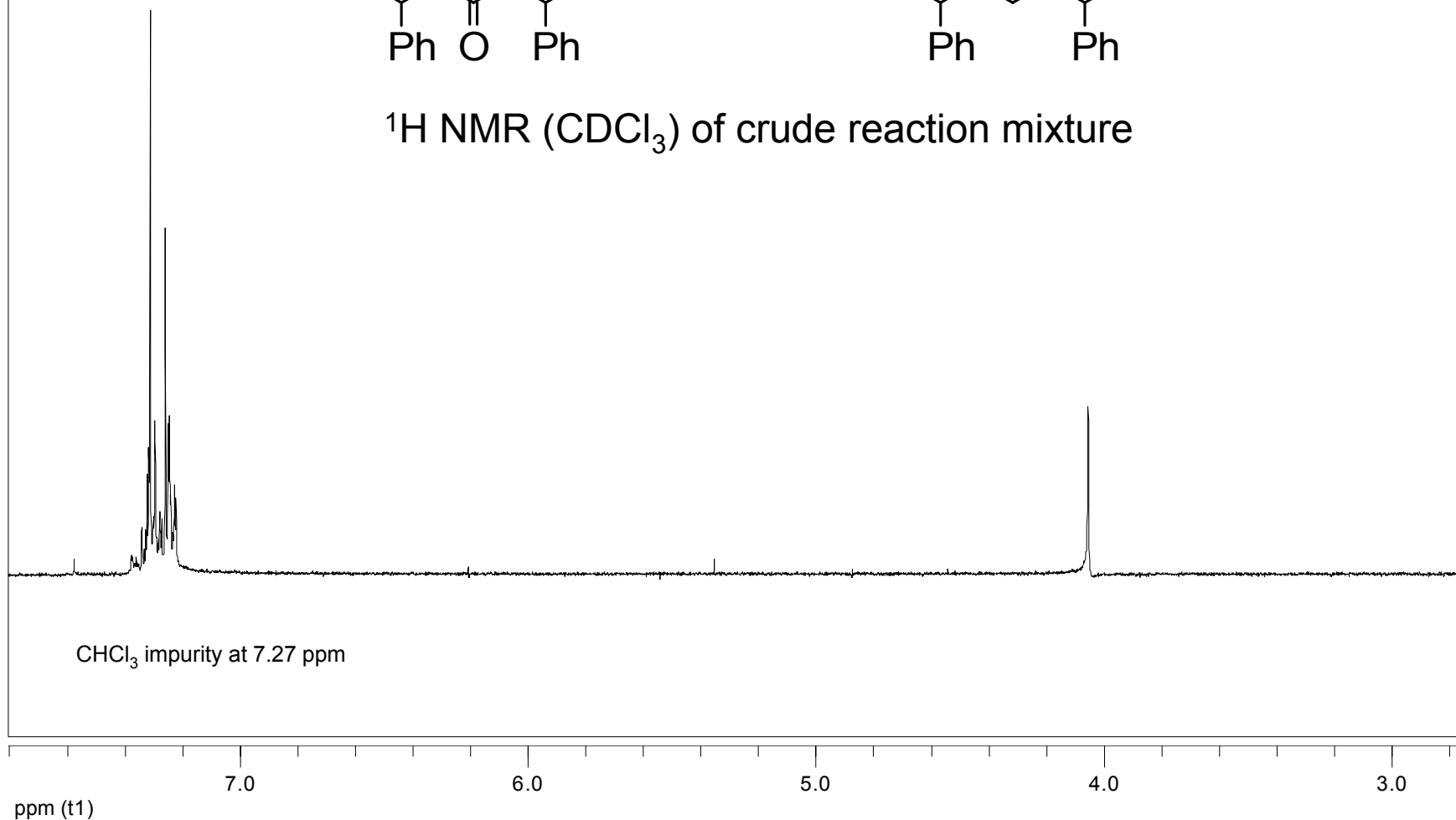


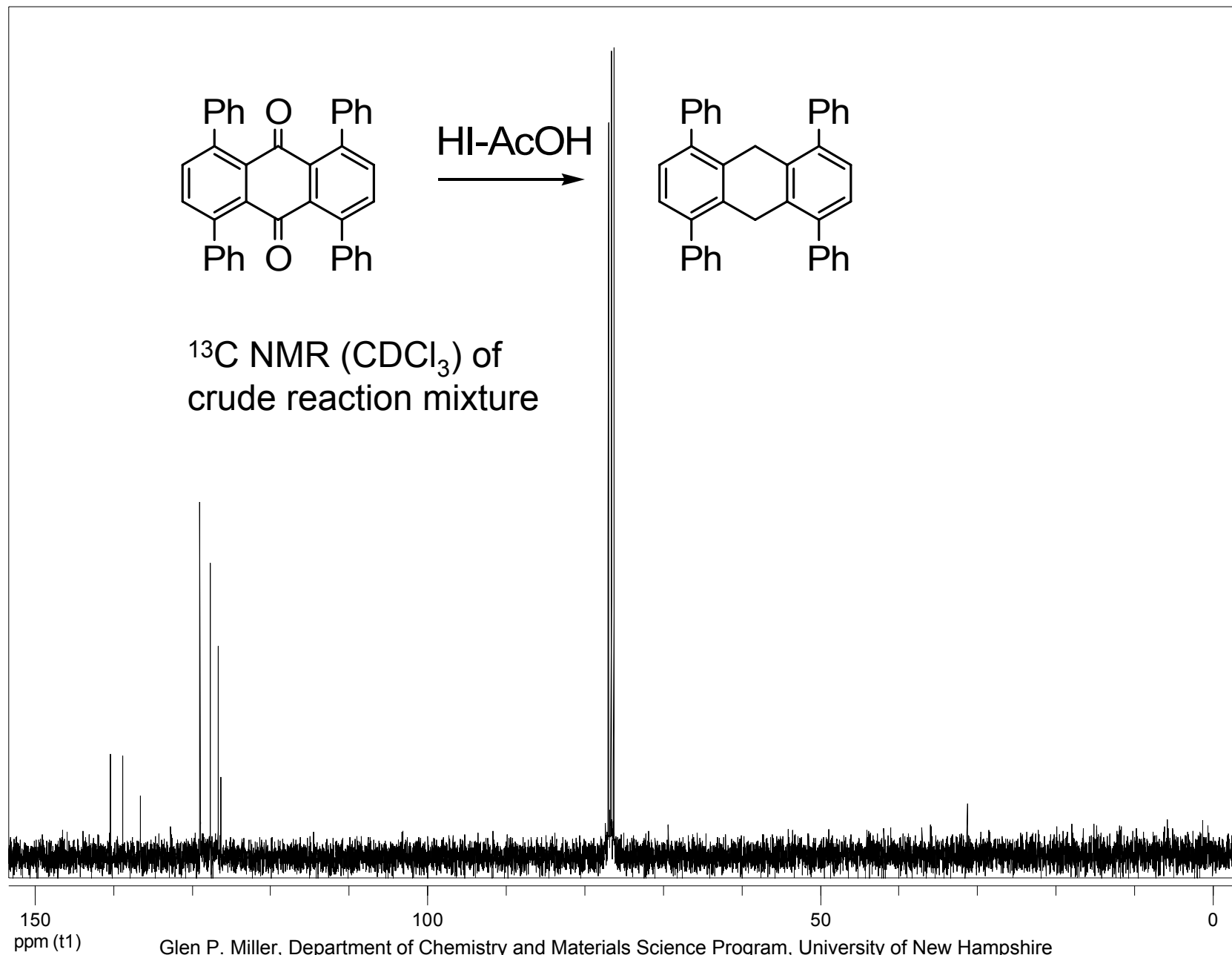
^{13}C NMR (CDCl_3) of crude reaction mixture

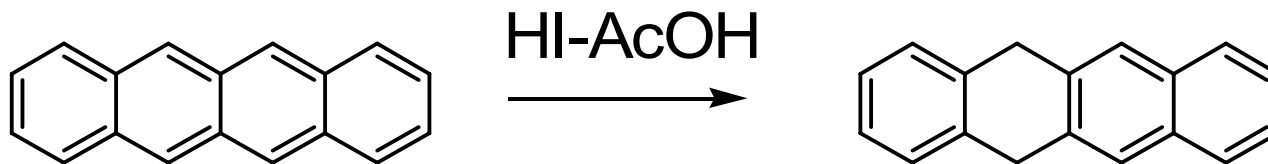




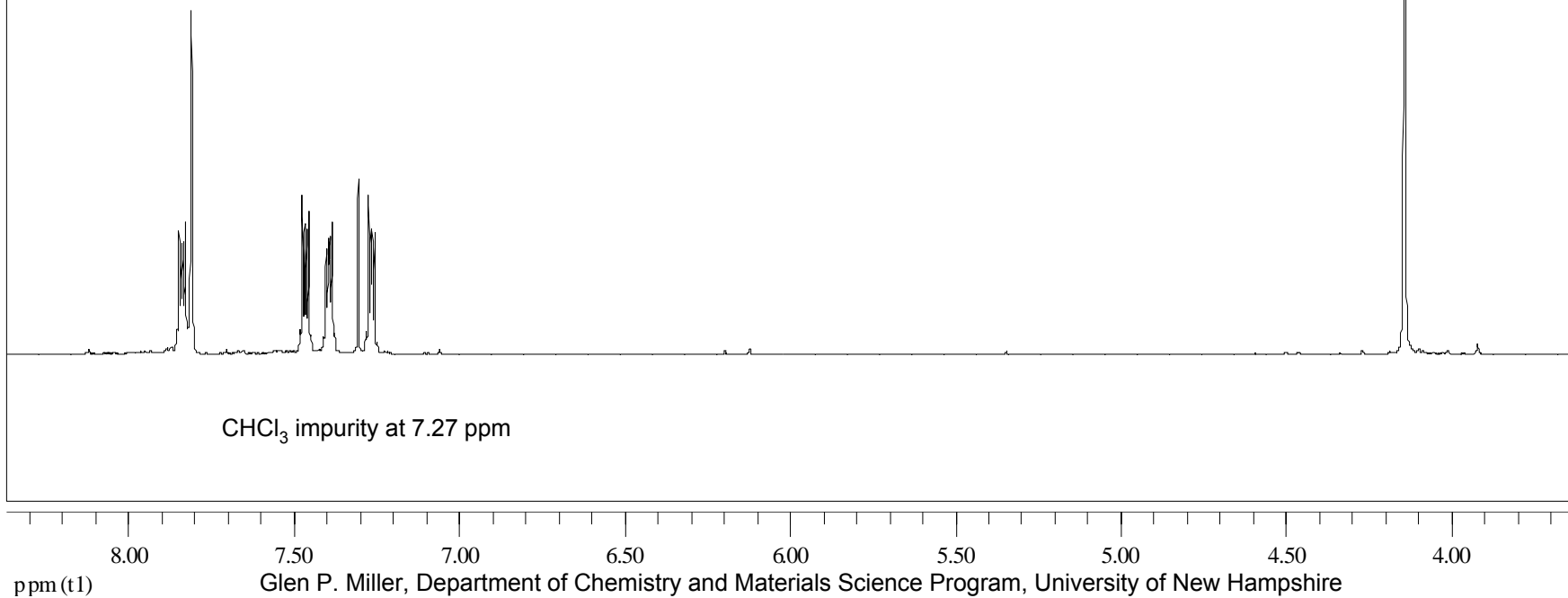
^1H NMR (CDCl_3) of crude reaction mixture

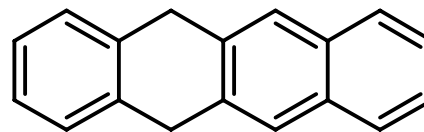
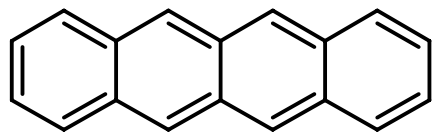




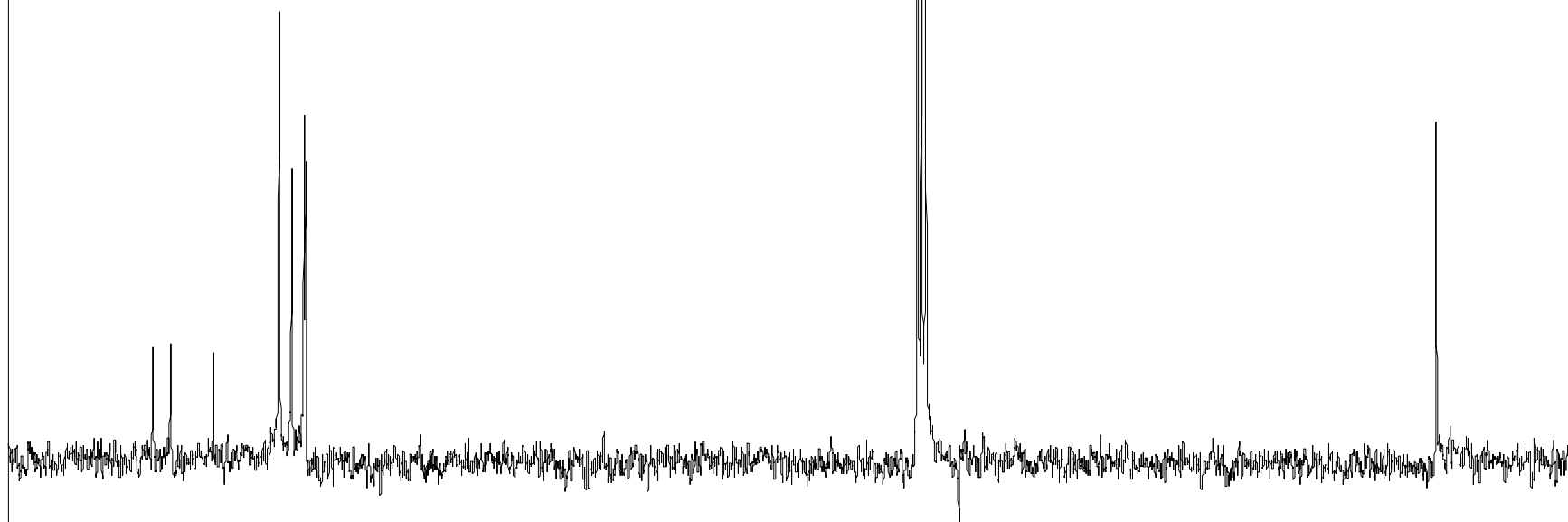


^1H NMR (CDCl_3) of crude reaction mixture





^{13}C NMR (CDCl_3) of
crude reaction mixture



ppm (f1)

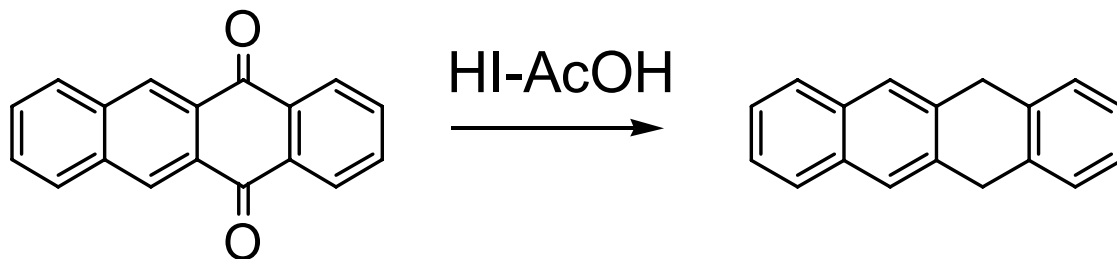
125

100

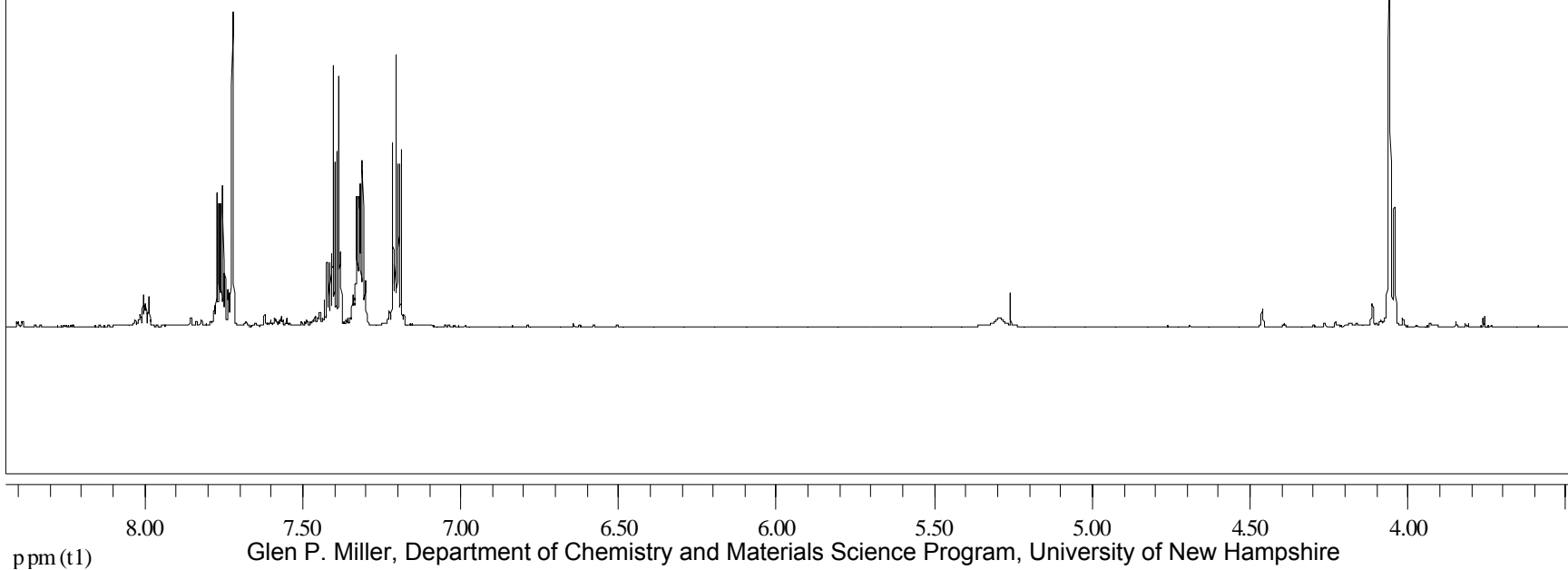
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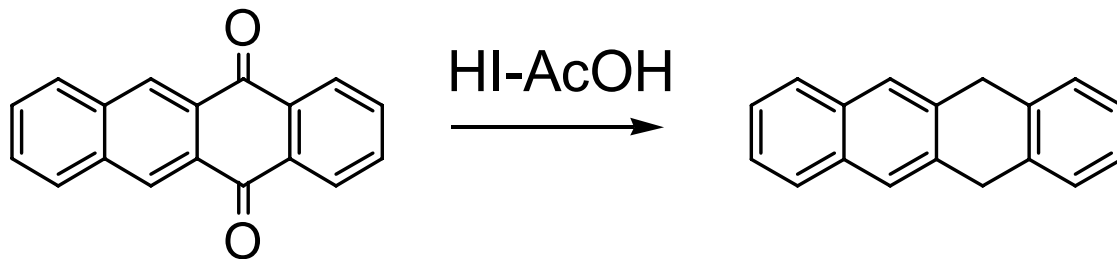
50

Glen P. Miller, Department of Chemistry and Materials Science Program, University of New Hampshire

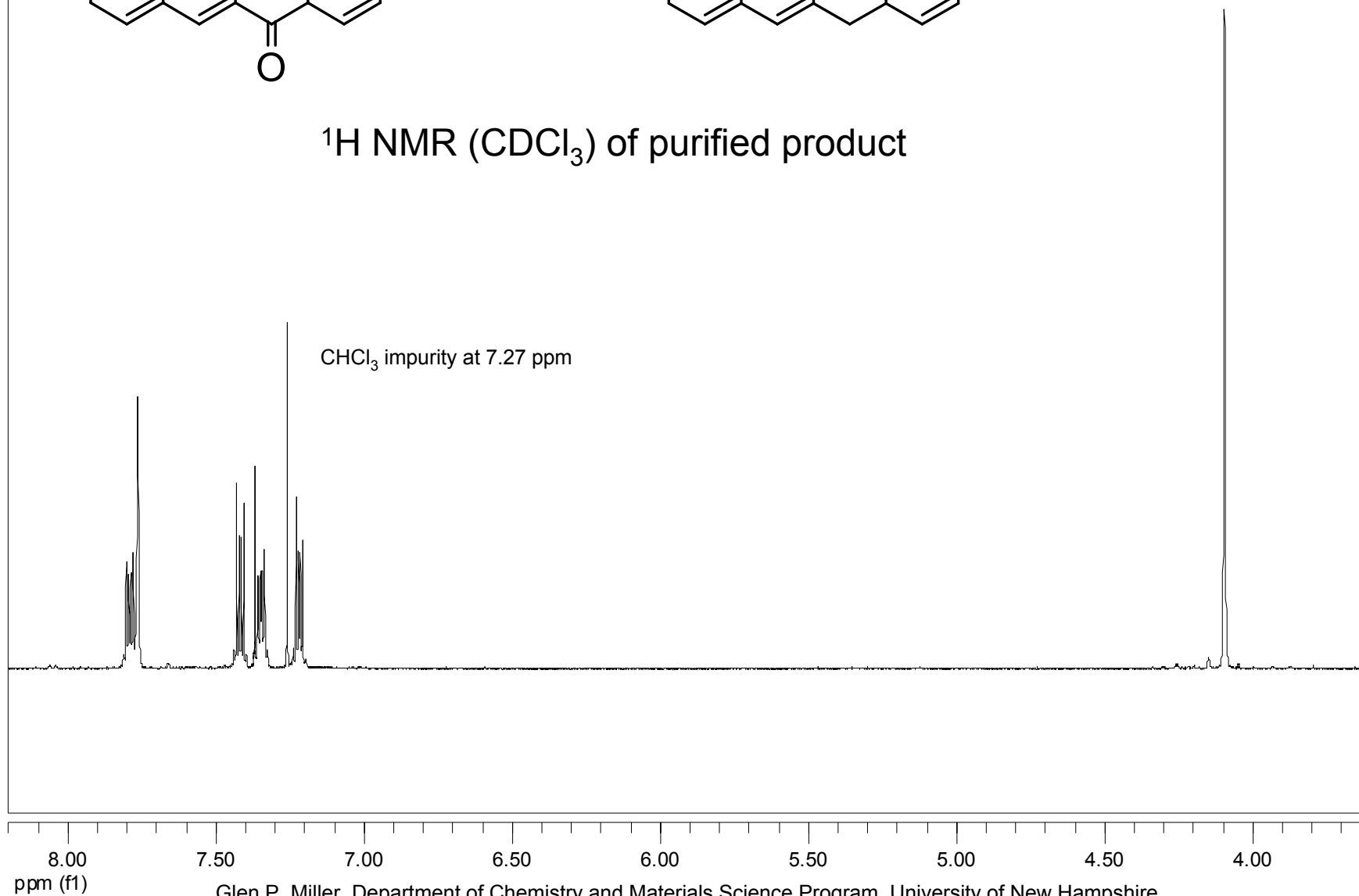


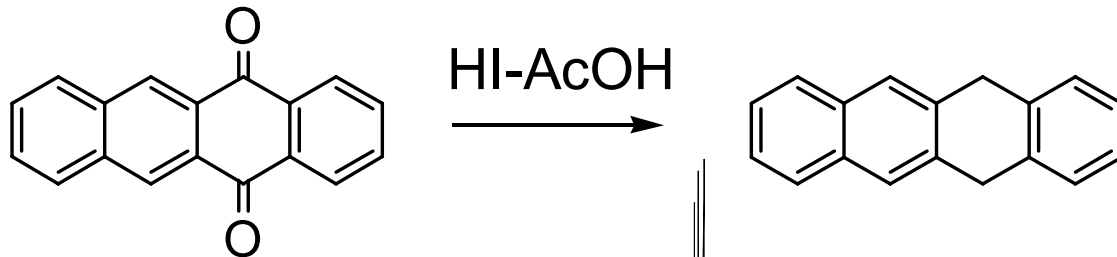
^1H NMR (CDCl_3) of crude reaction mixture



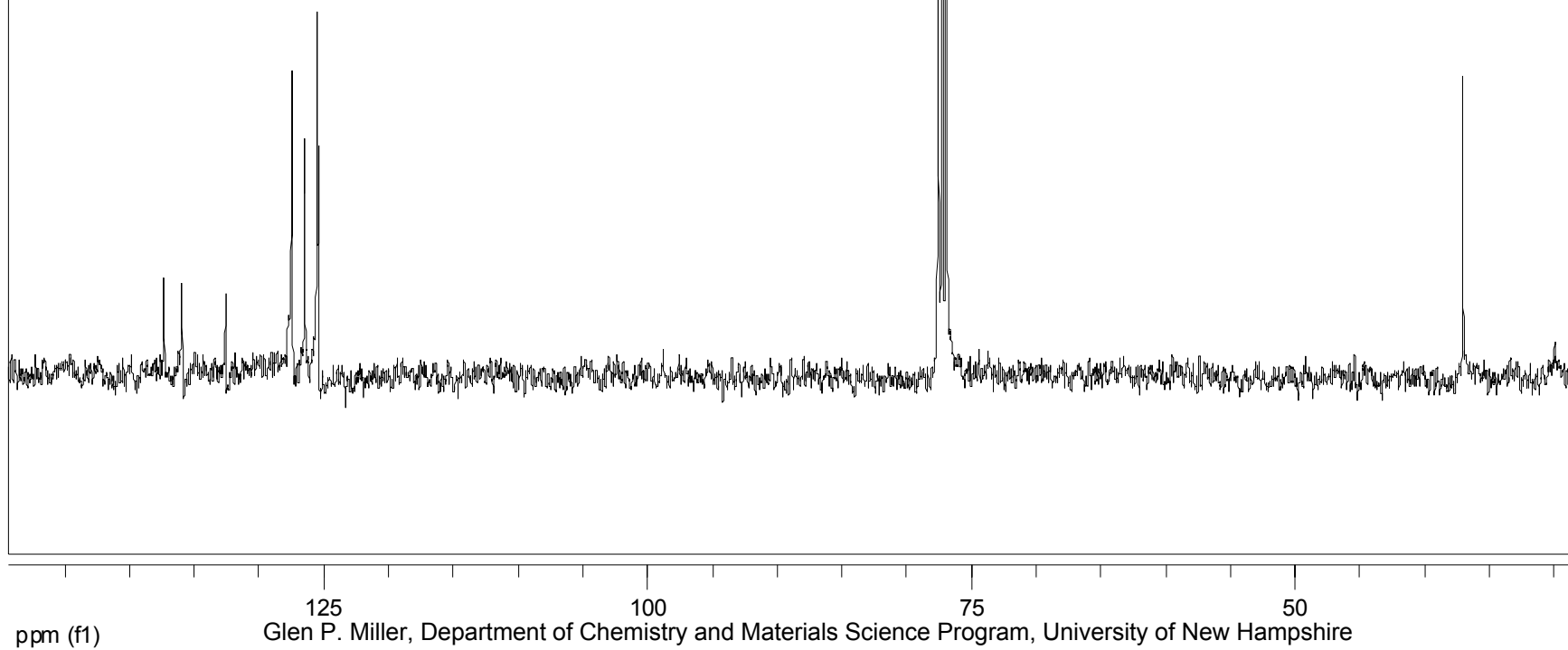


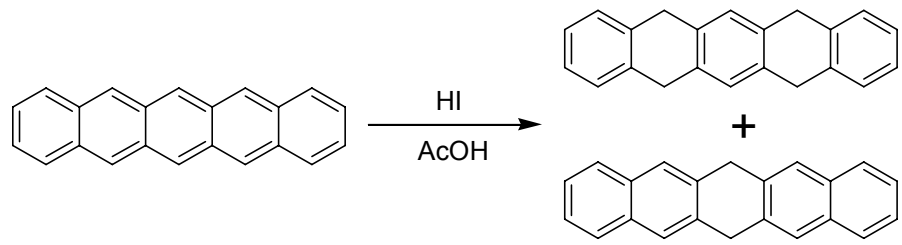
^1H NMR (CDCl_3) of purified product



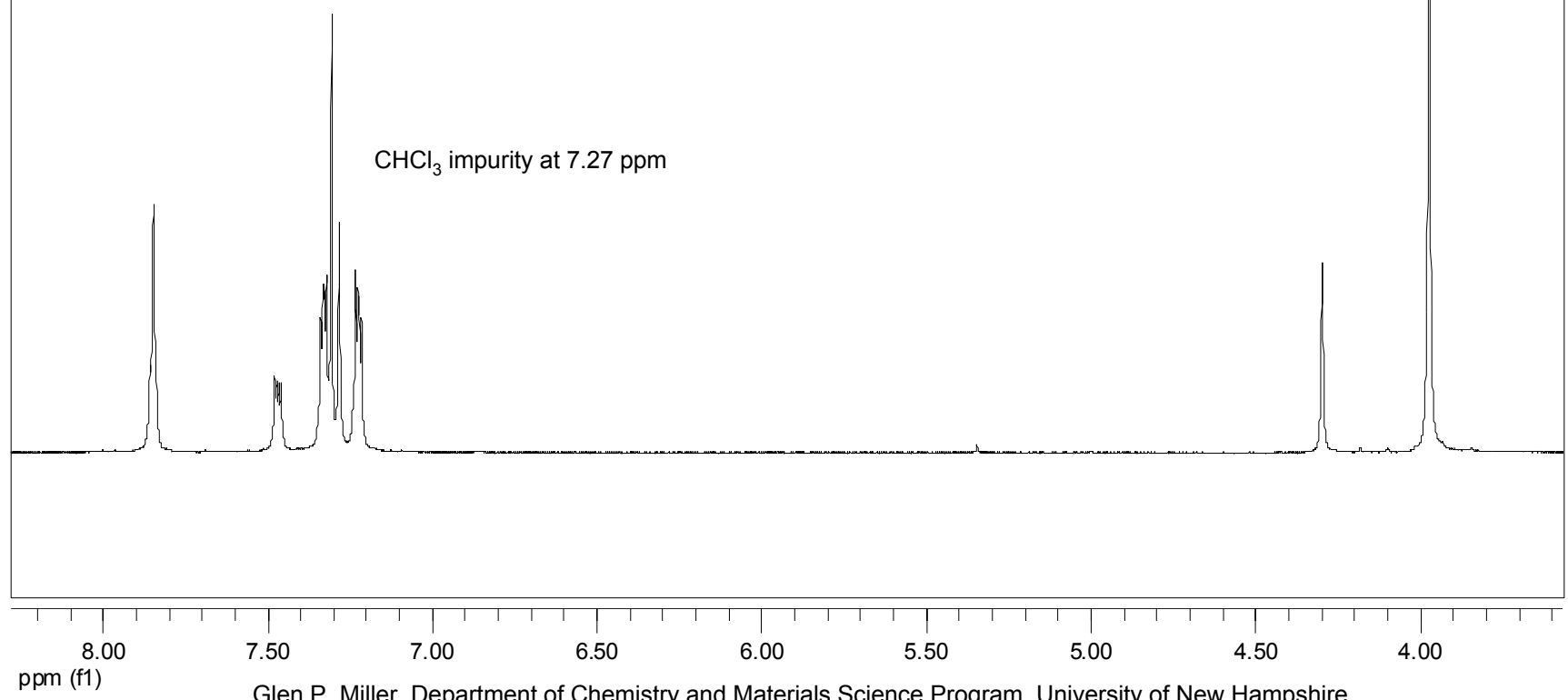


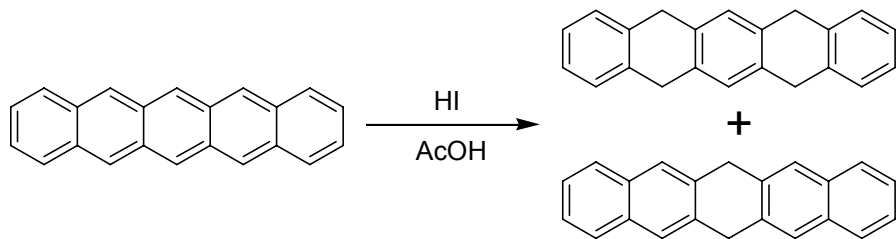
^{13}C NMR of purified product



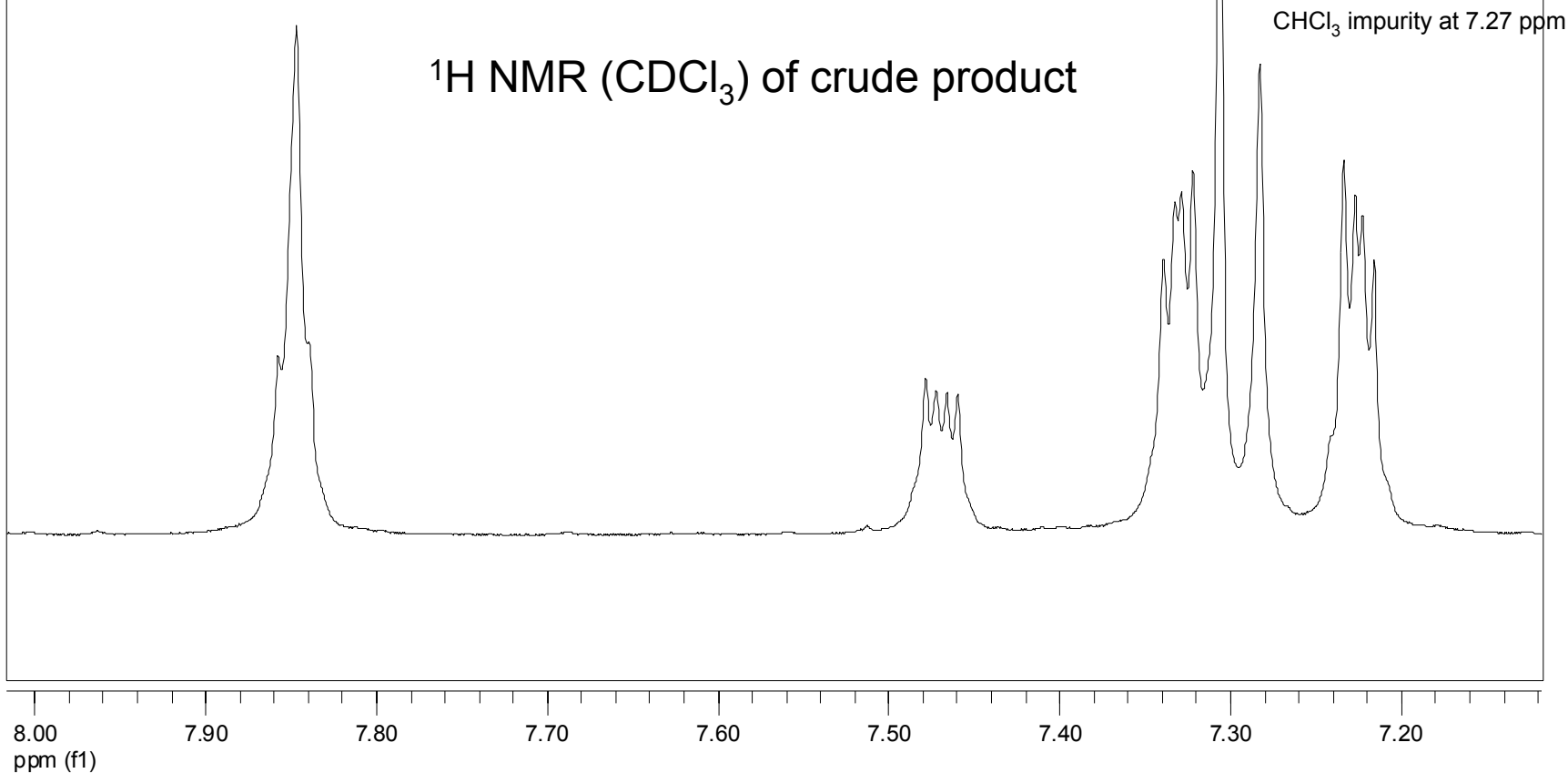


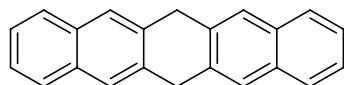
¹H NMR (CDCl₃) of crude product





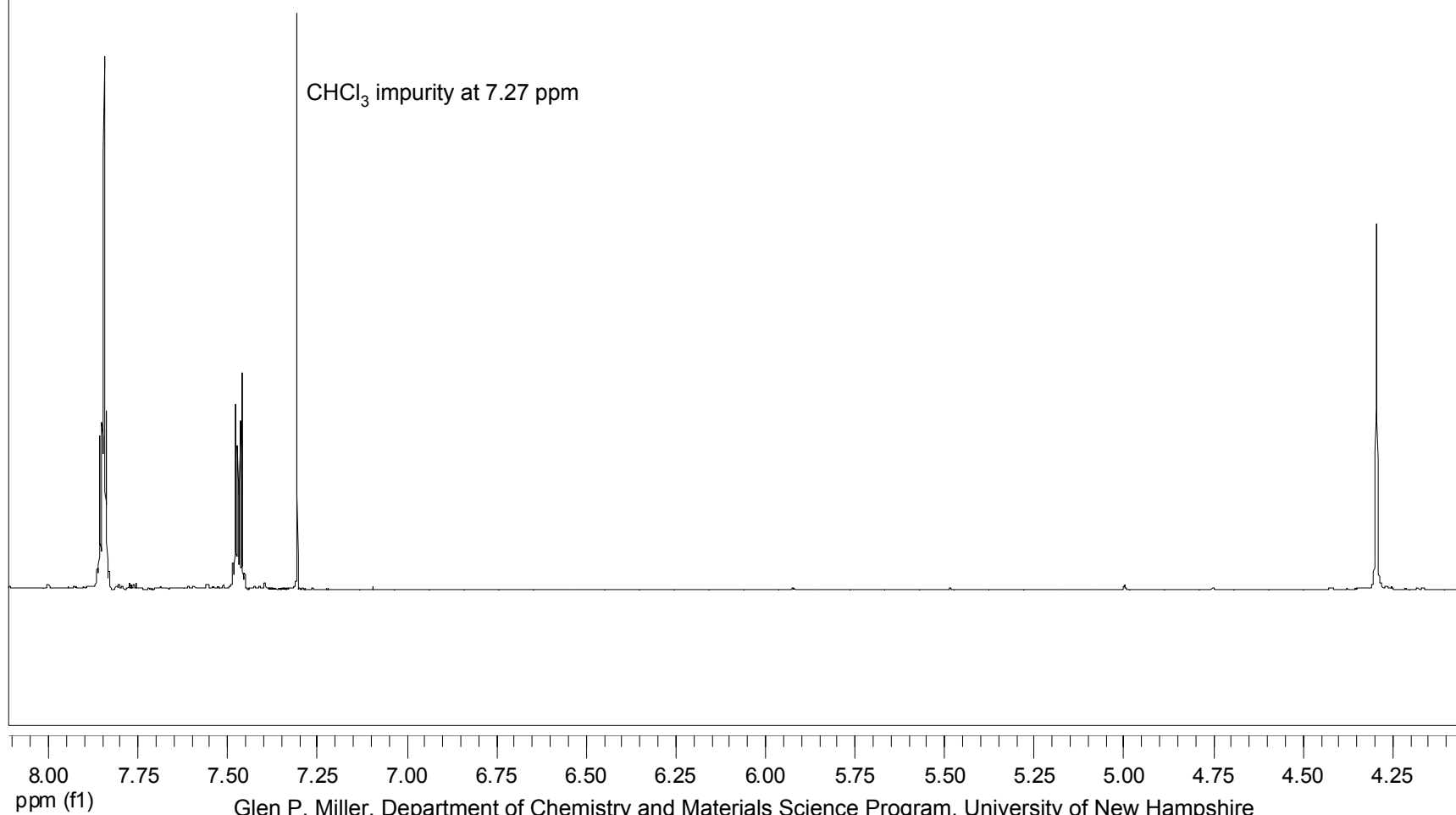
¹H NMR (CDCl₃) of crude product

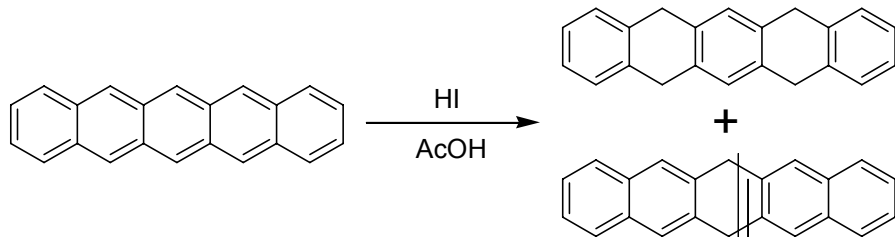




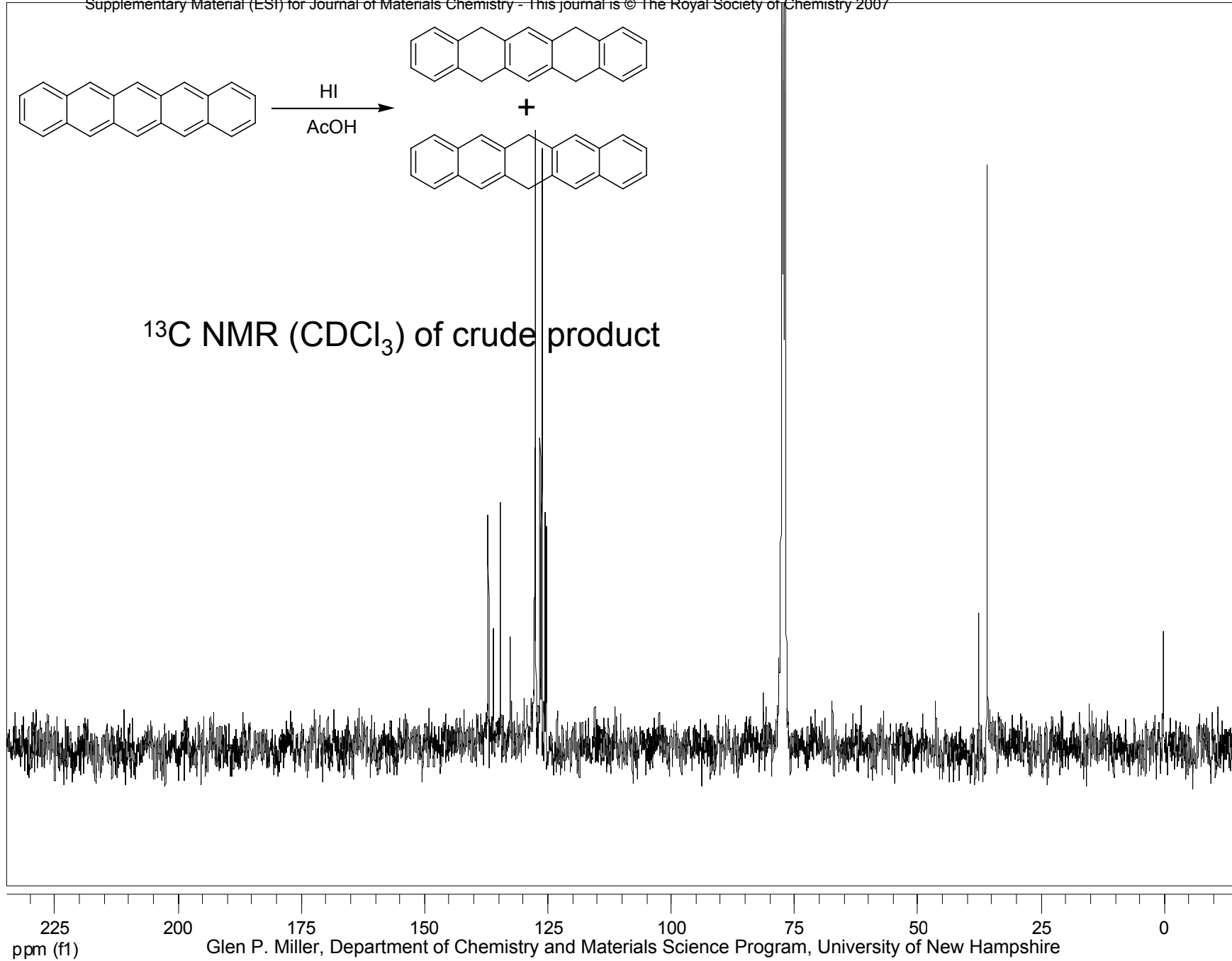
^1H NMR (CDCl_3)

Synthesized independently for comparison

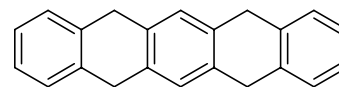
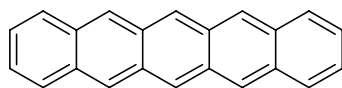




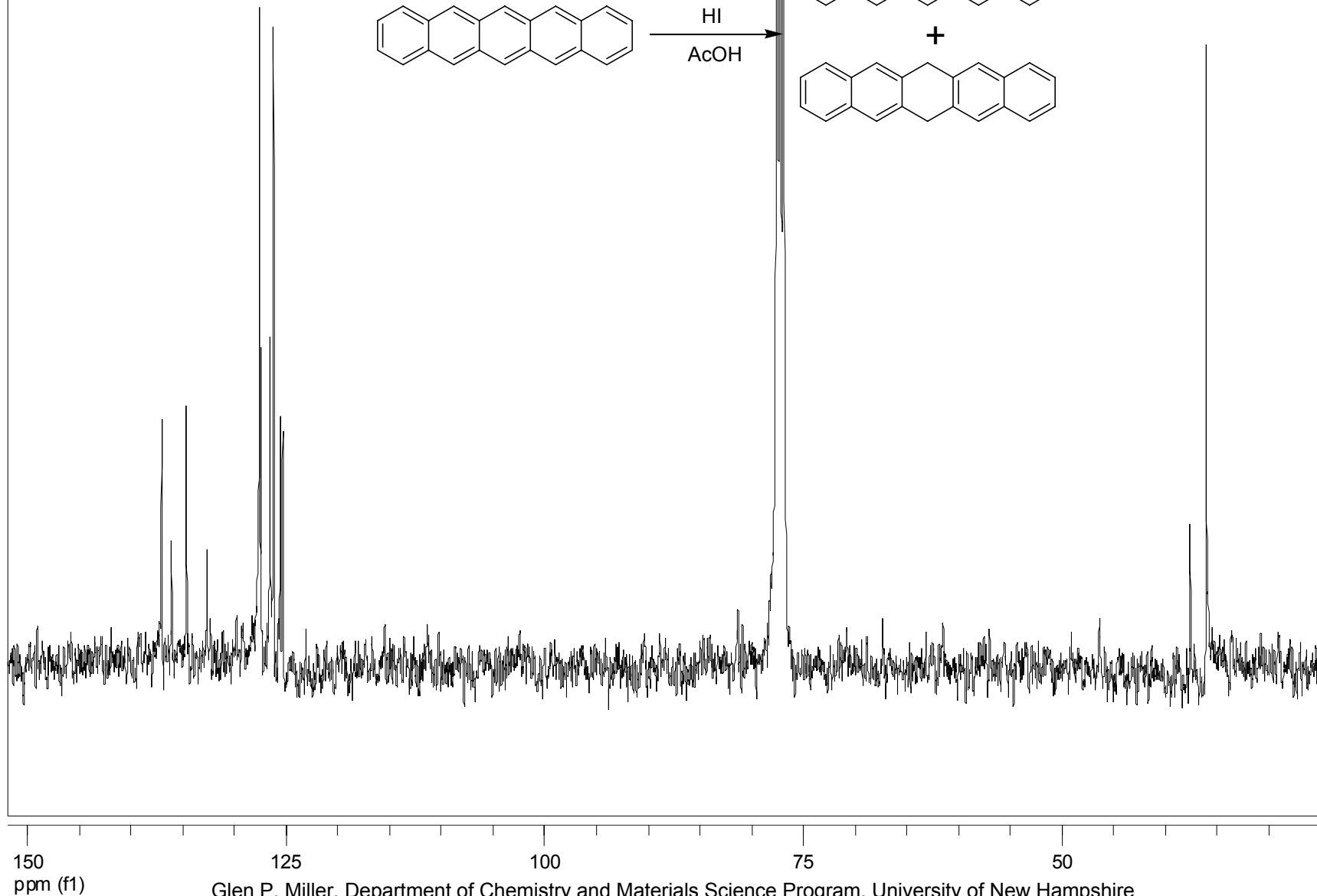
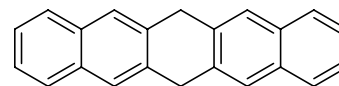
^{13}C NMR (CDCl_3) of crude product

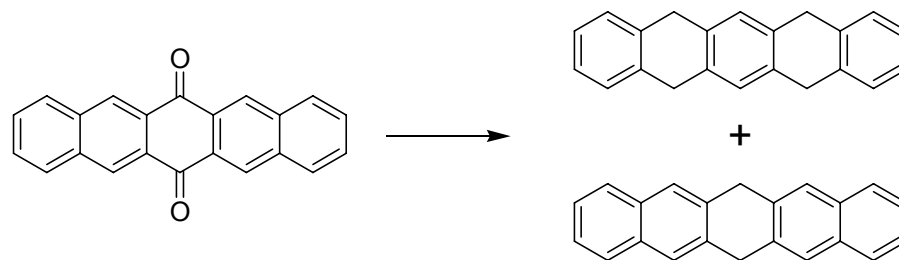


^{13}C NMR (CDCl_3) of crude product

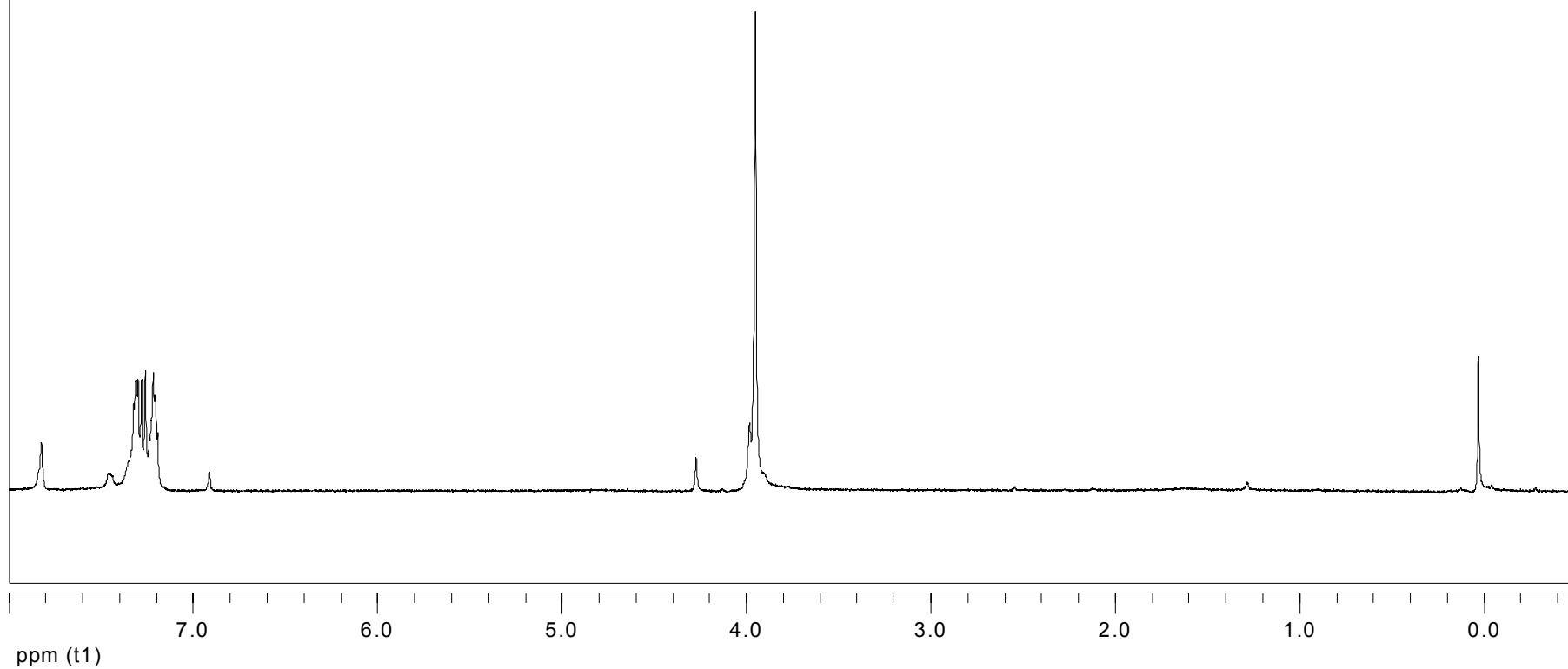


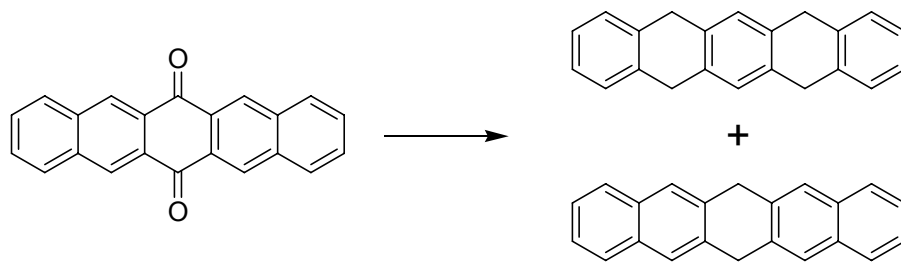
+



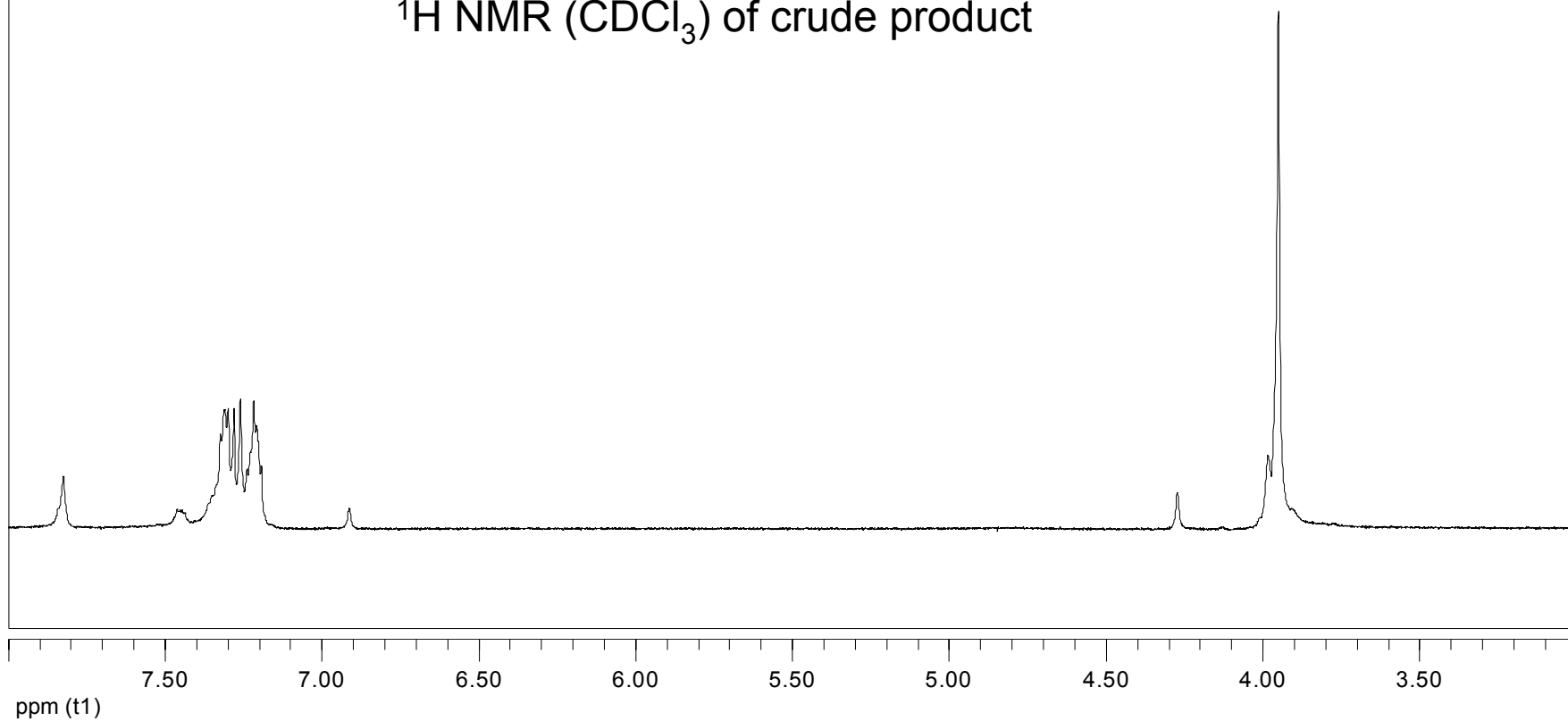


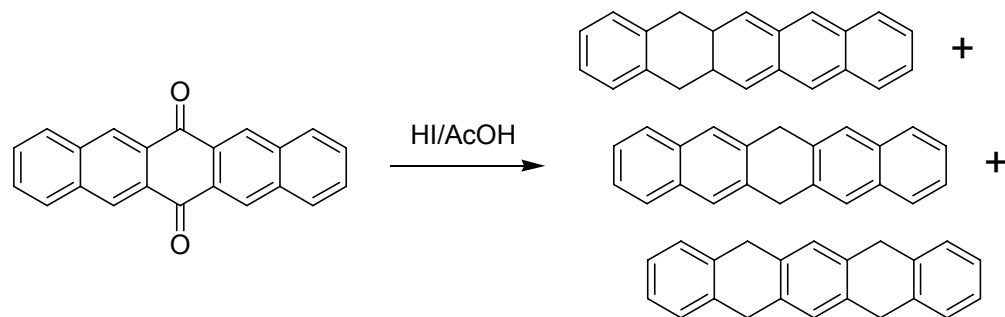
¹H NMR (CDCl₃) of crude product



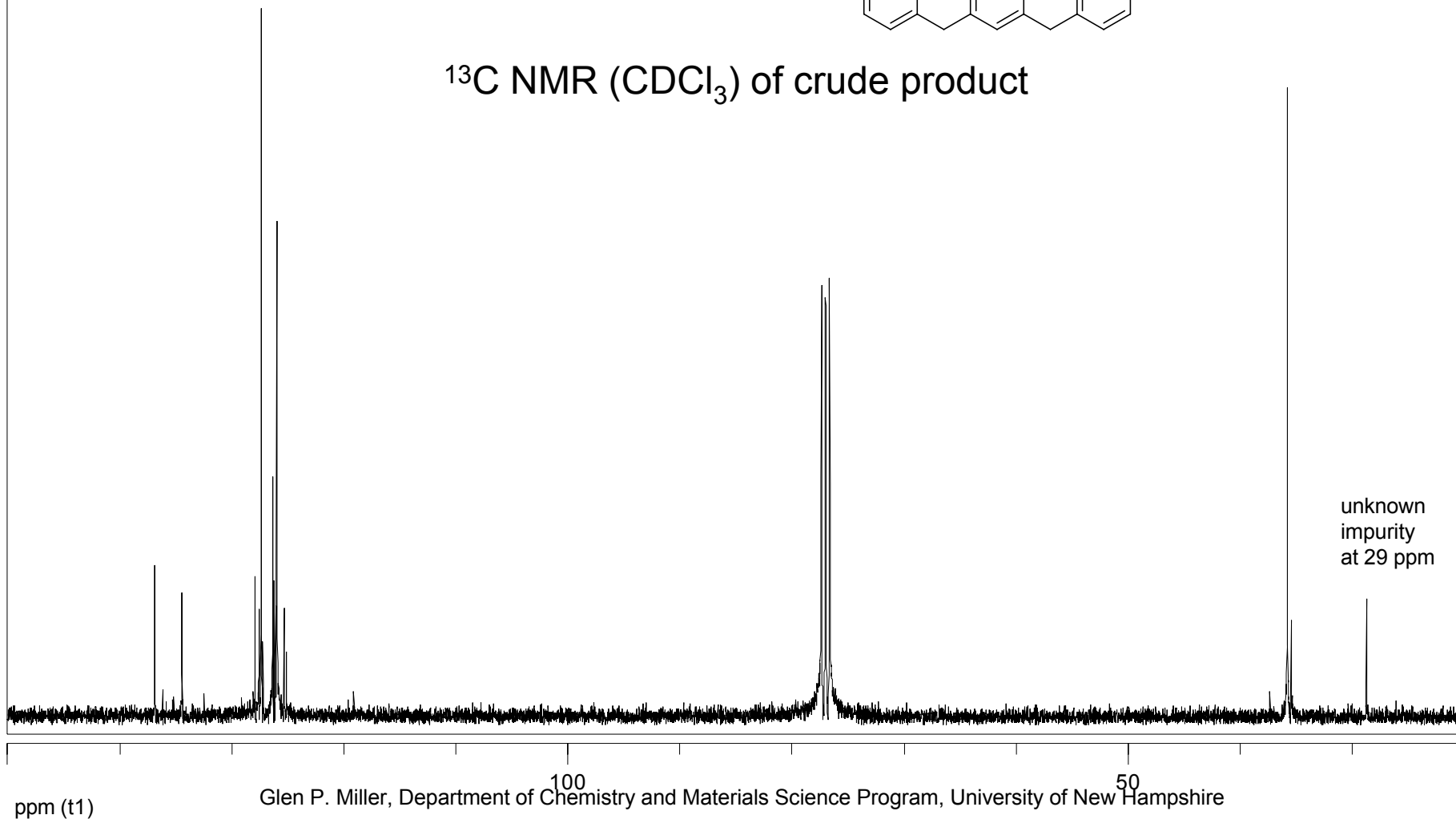


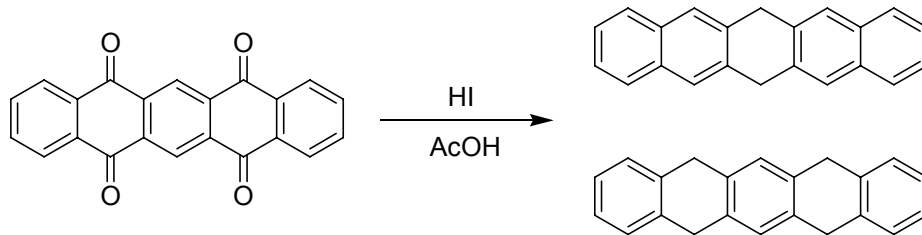
^1H NMR (CDCl_3) of crude product





^{13}C NMR (CDCl_3) of crude product





^1H NMR (CDCl_3) of crude product

CHCl_3 impurity at 7.27 ppm

CH_2Cl_2 impurity

8.00
ppm (f1)

7.50

7.00

6.50

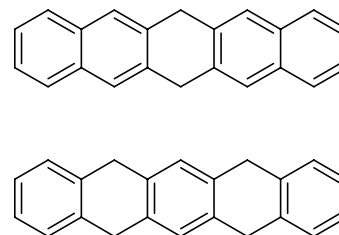
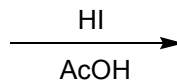
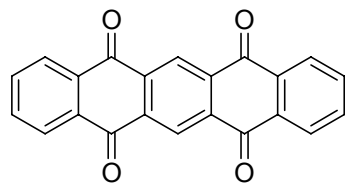
6.00

5.50

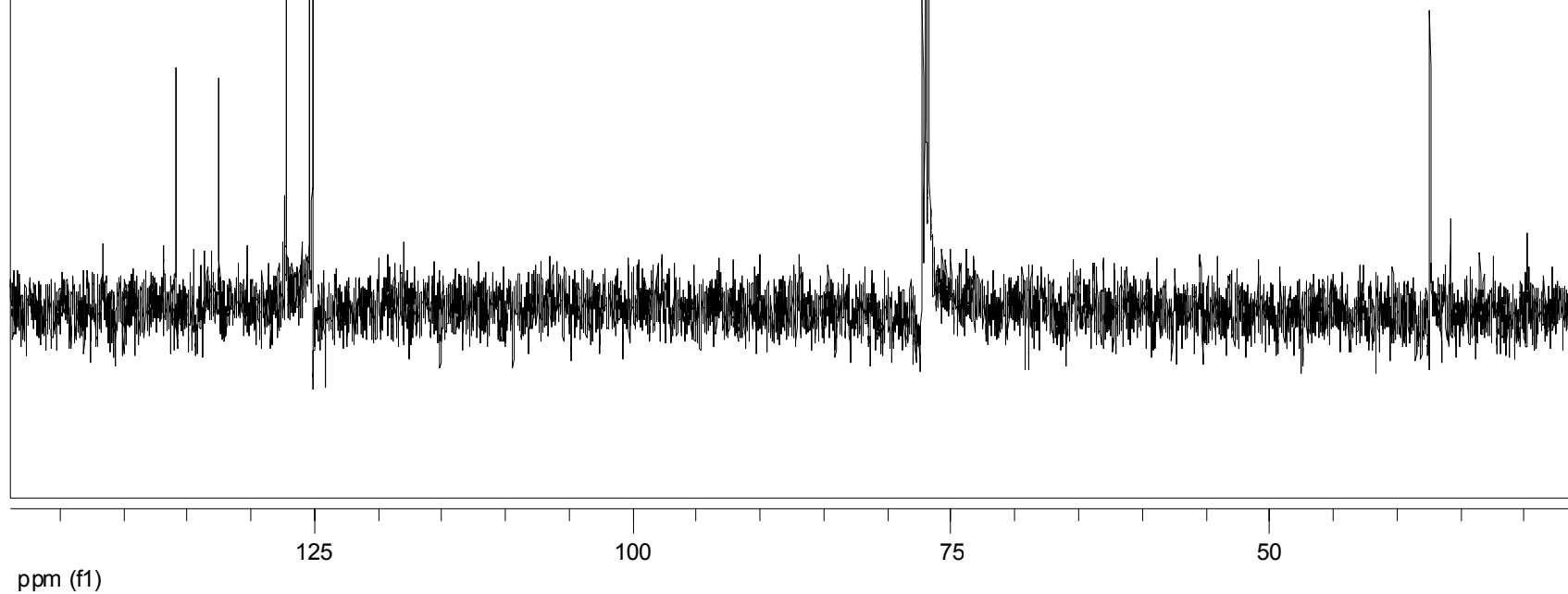
5.00

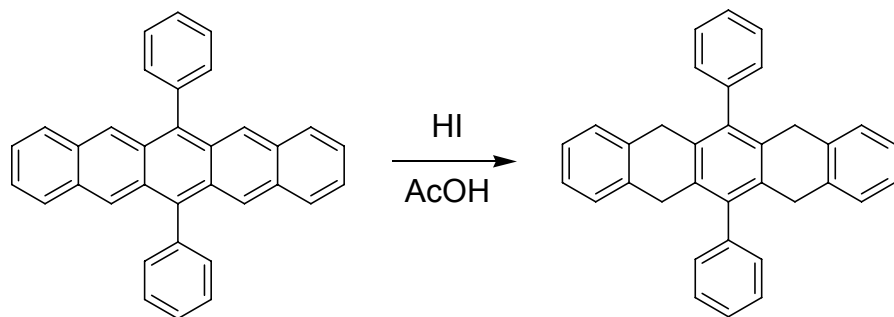
4.50

4.00

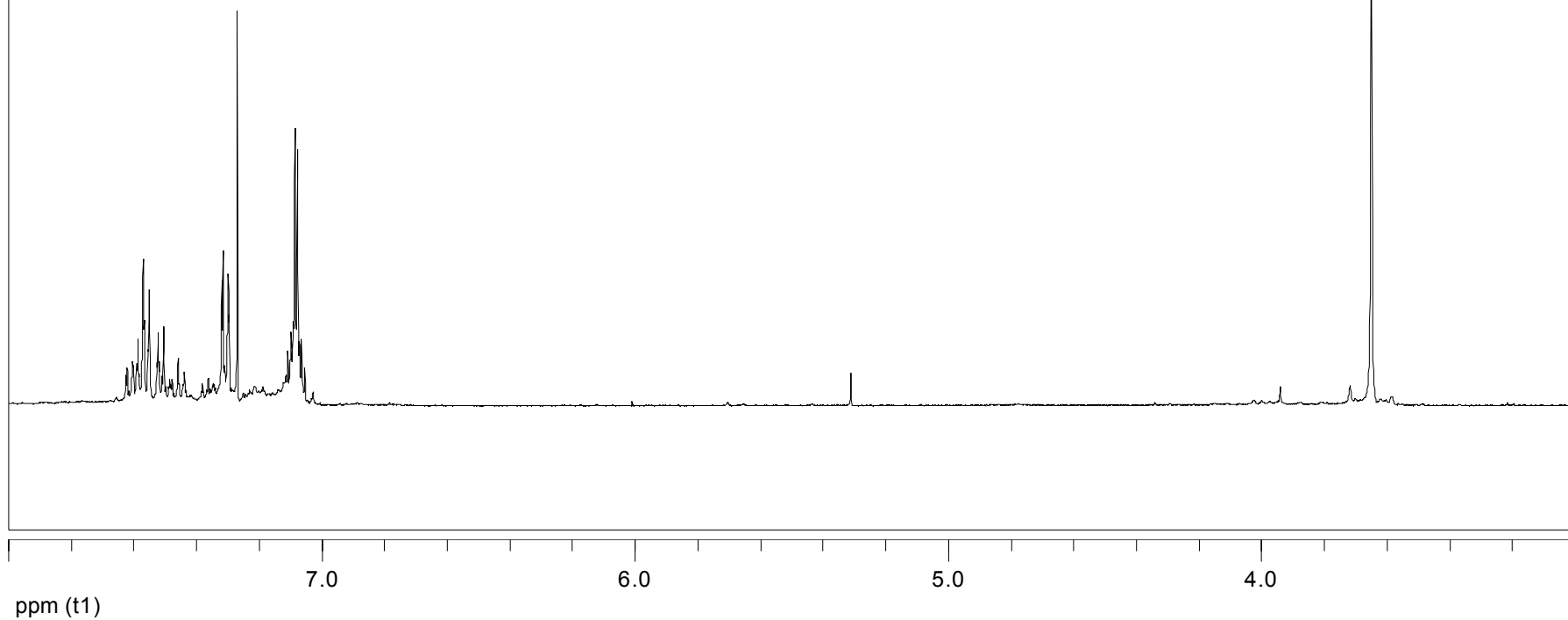


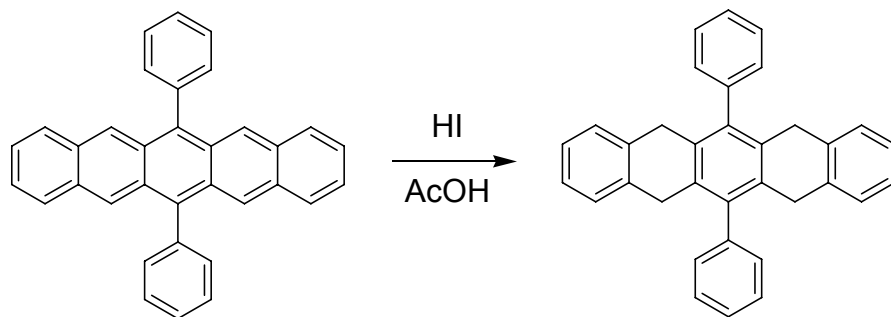
¹³C NMR (CDCl₃) of crude product



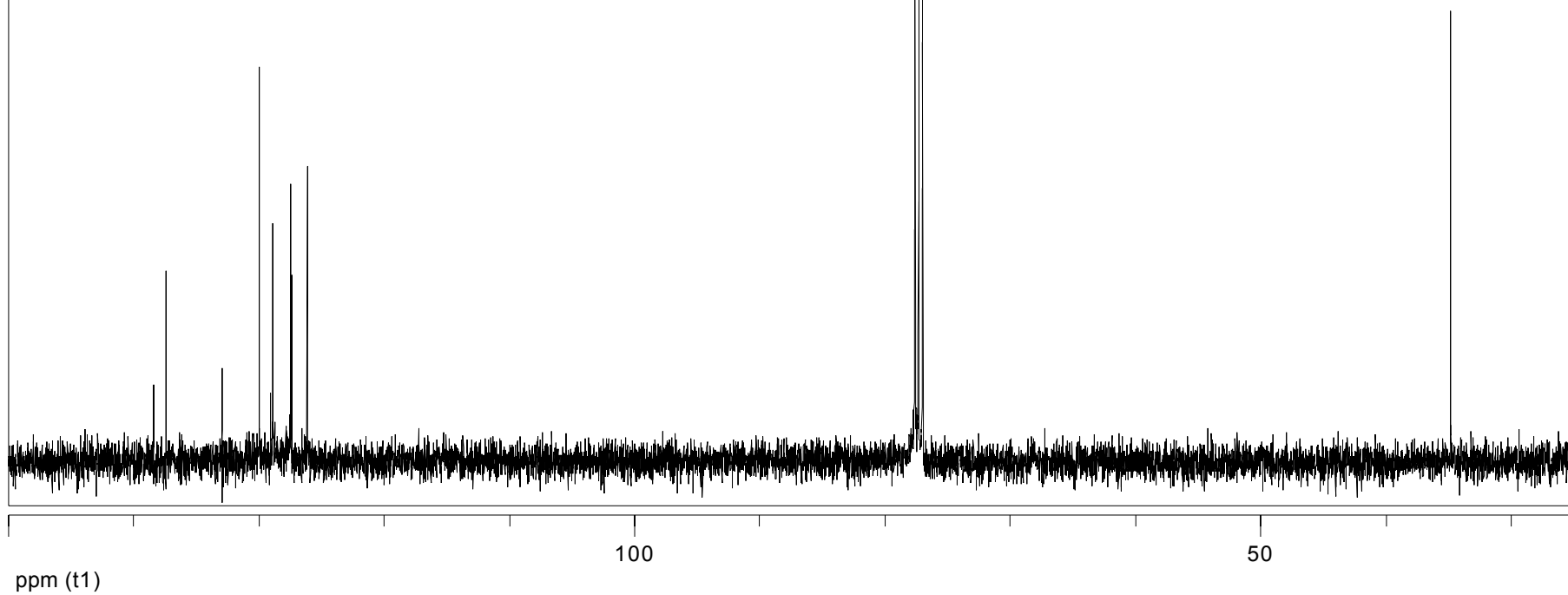


¹H NMR (CDCl₃) of crude product



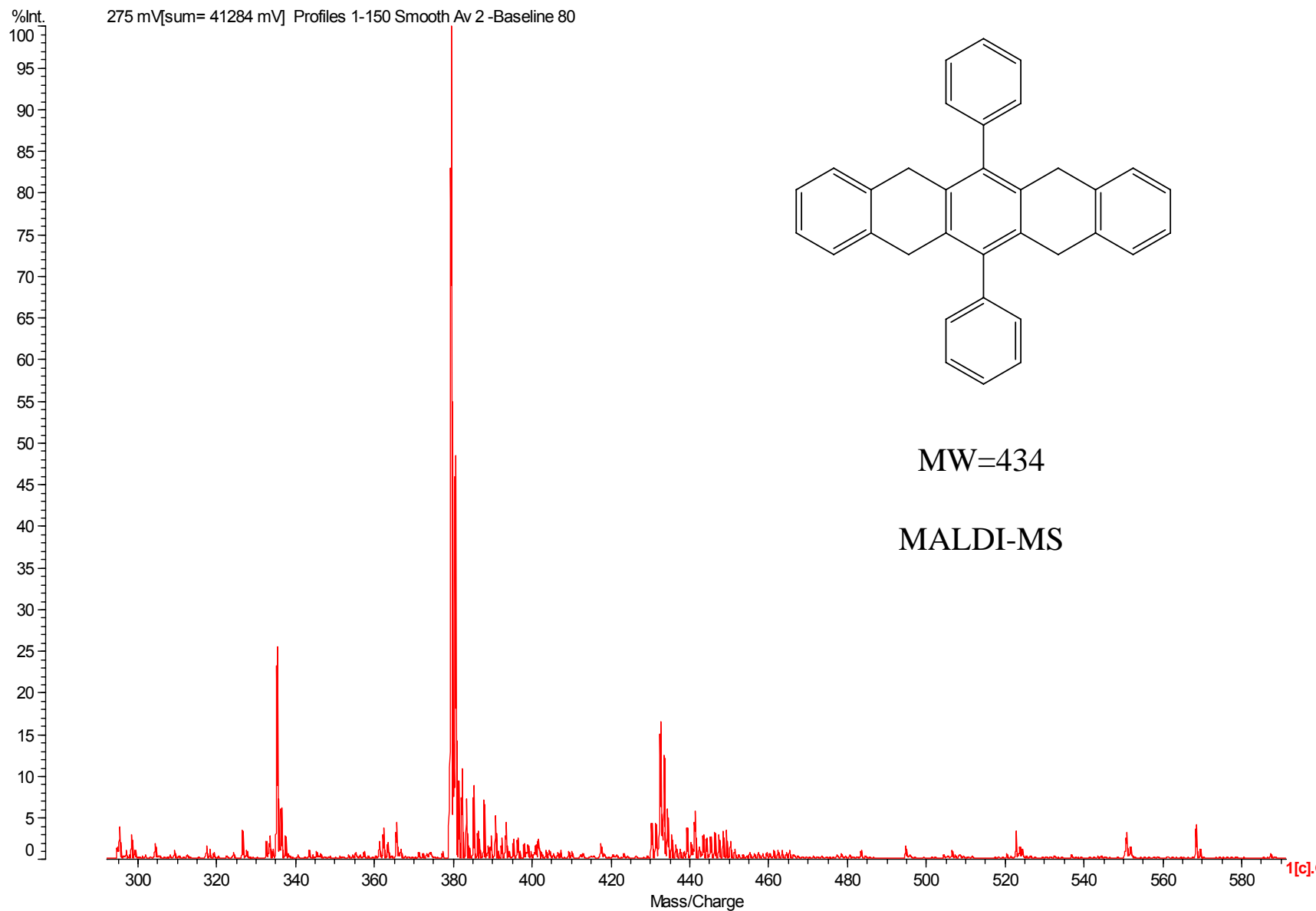


^{13}C NMR (CDCl_3) of crude product



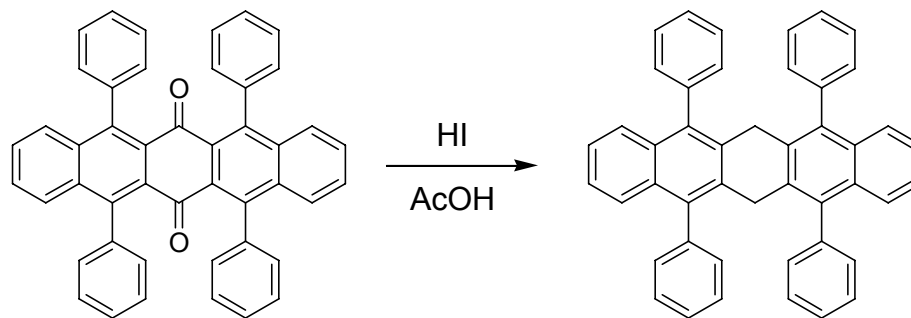
Data: DPTHP_30001.A14 29 Jul 2005 10:50 Cal: David 28 Jun 2005 10:46
Kratos PC Axima CFRplus V2.3.4: Mode reflectron_1ghz, Power: 48, P.Ext. @ 2000 (bin 144)

275 mV[sum= 41284 mV] Profiles 1-150 Smooth Av 2 -Baseline 80

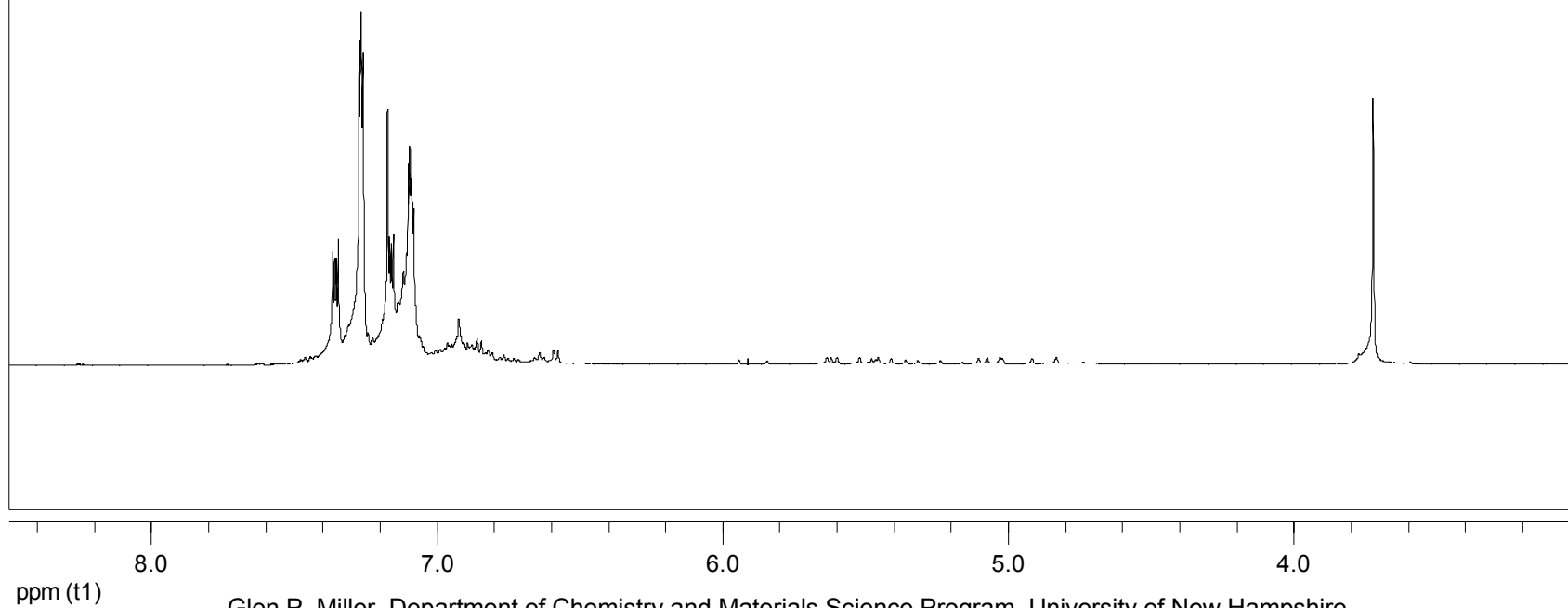


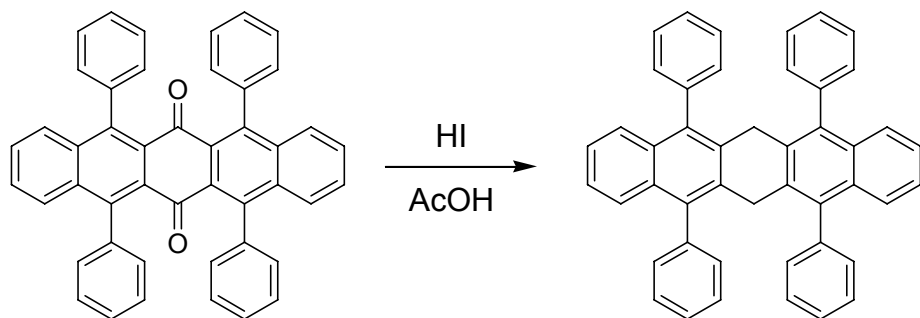
MW=434

MALDI-MS

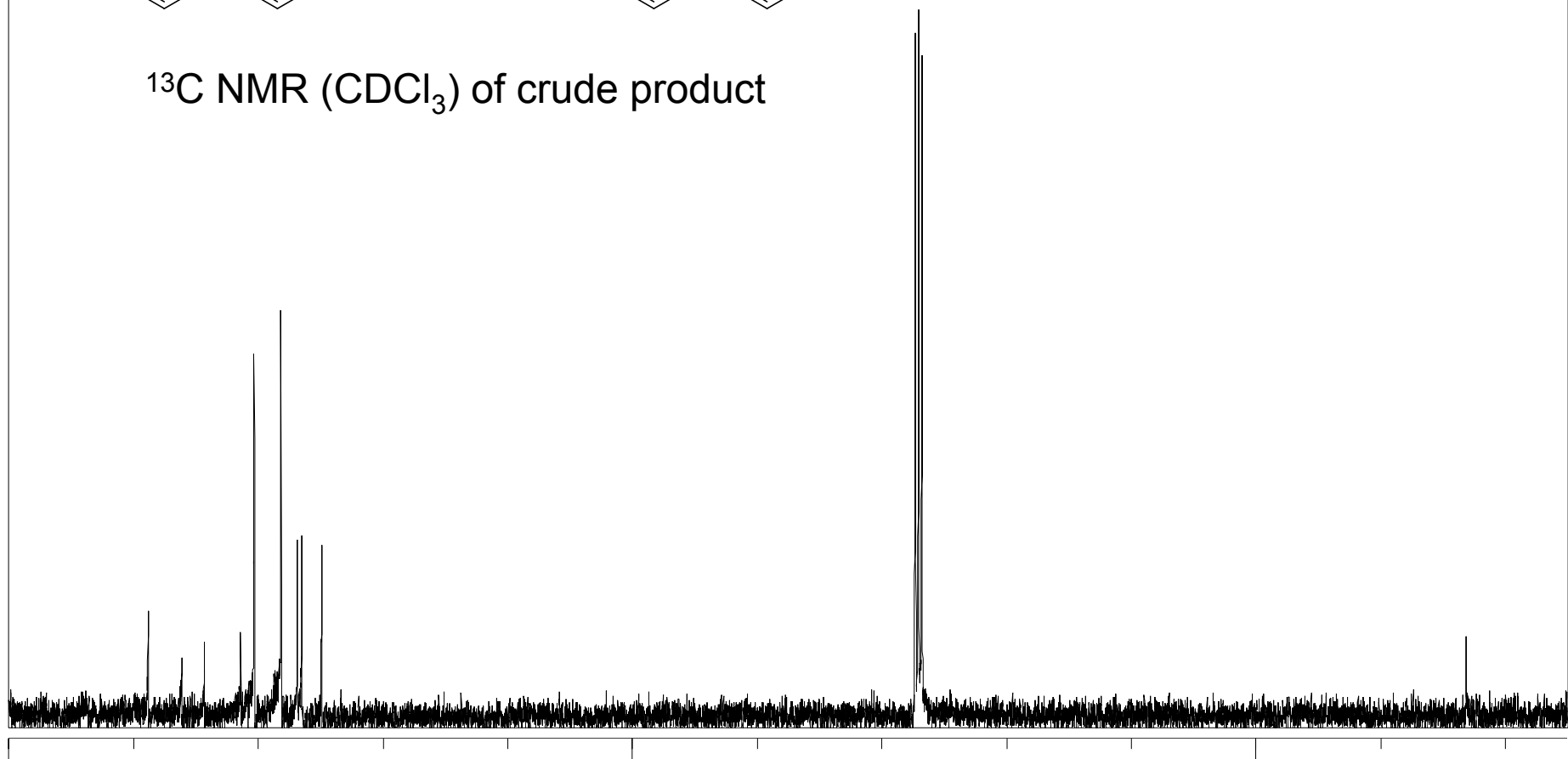


^1H NMR (CDCl_3) of crude product

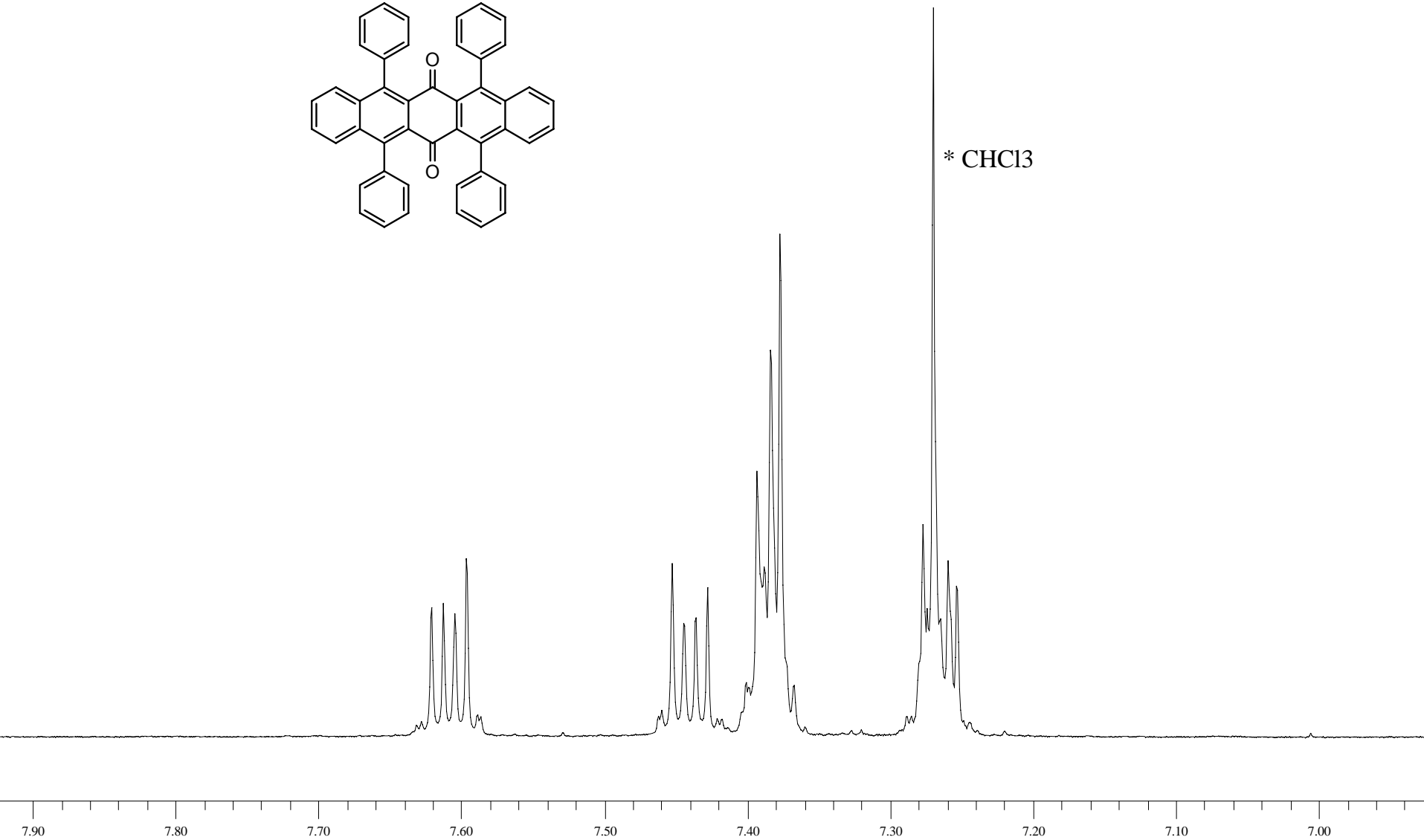
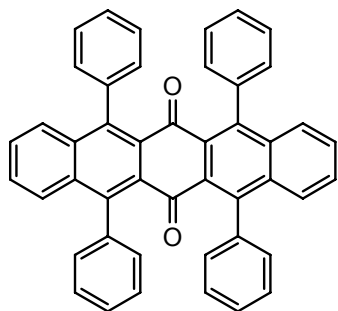


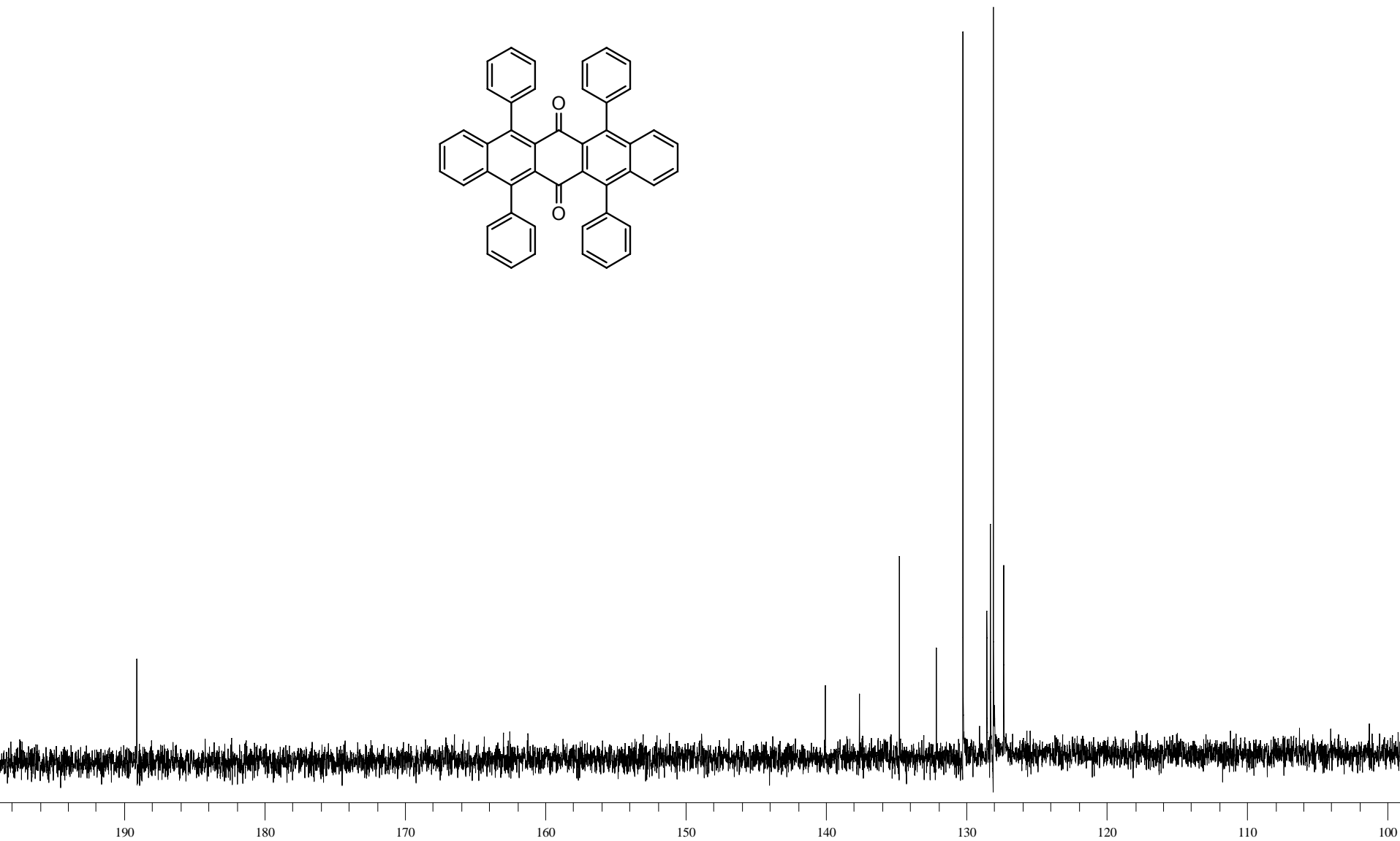
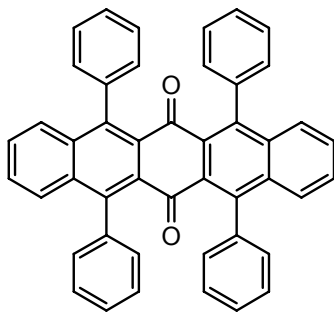


¹³C NMR (CDCl₃) of crude product



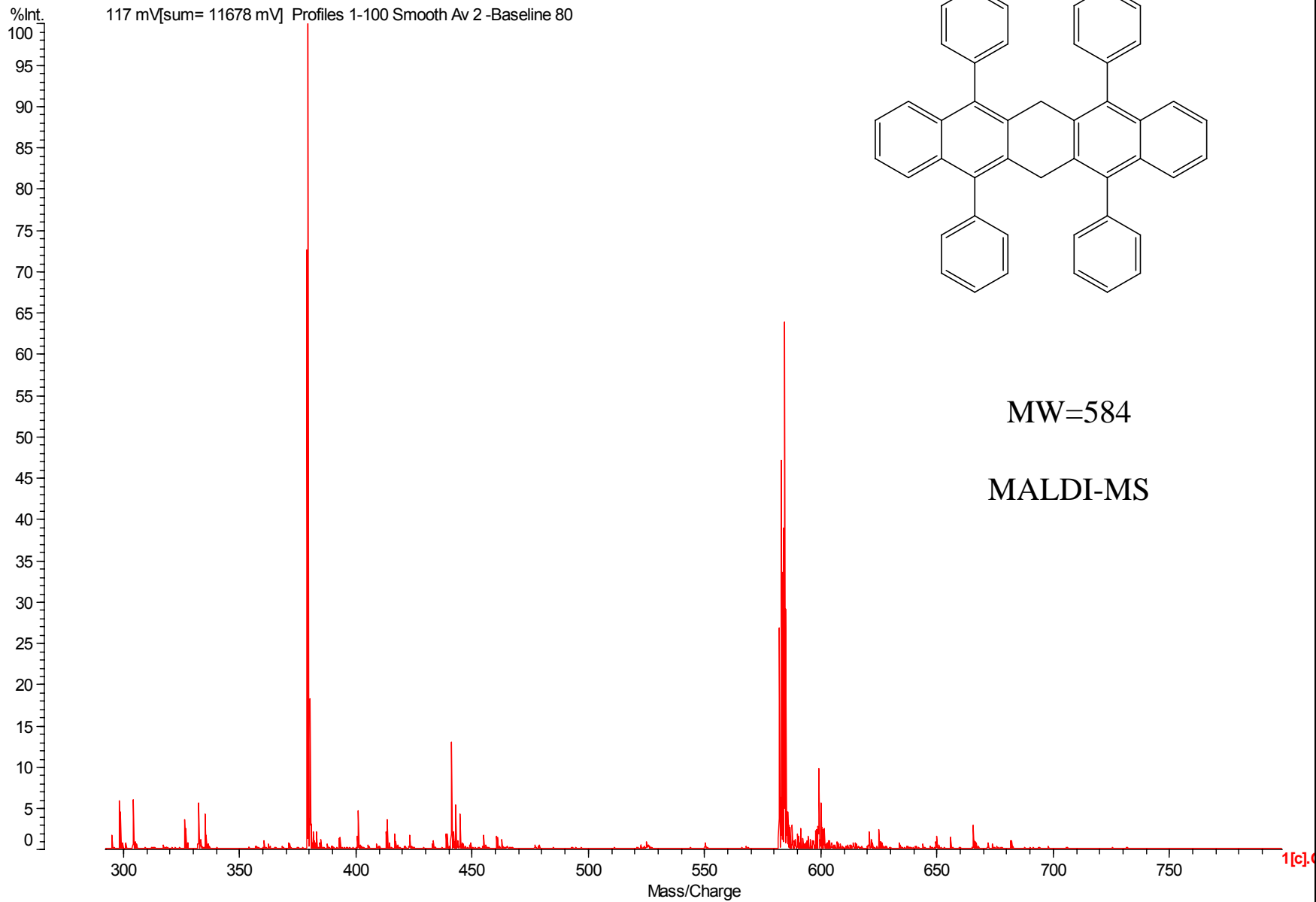
ppm (t1)

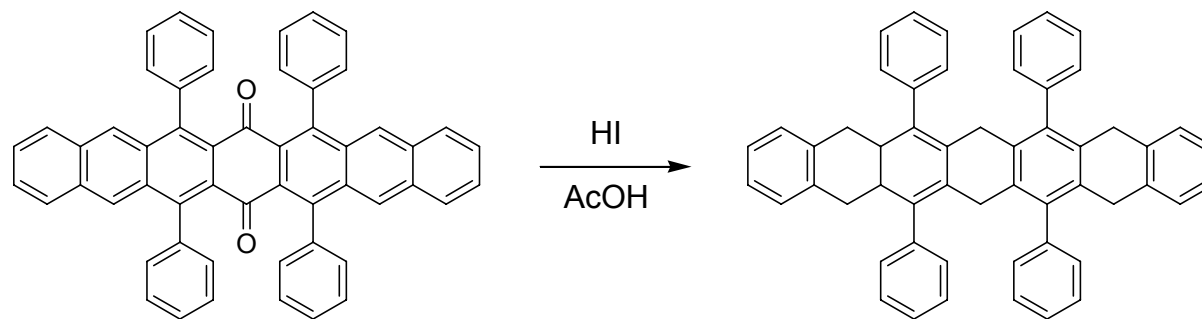




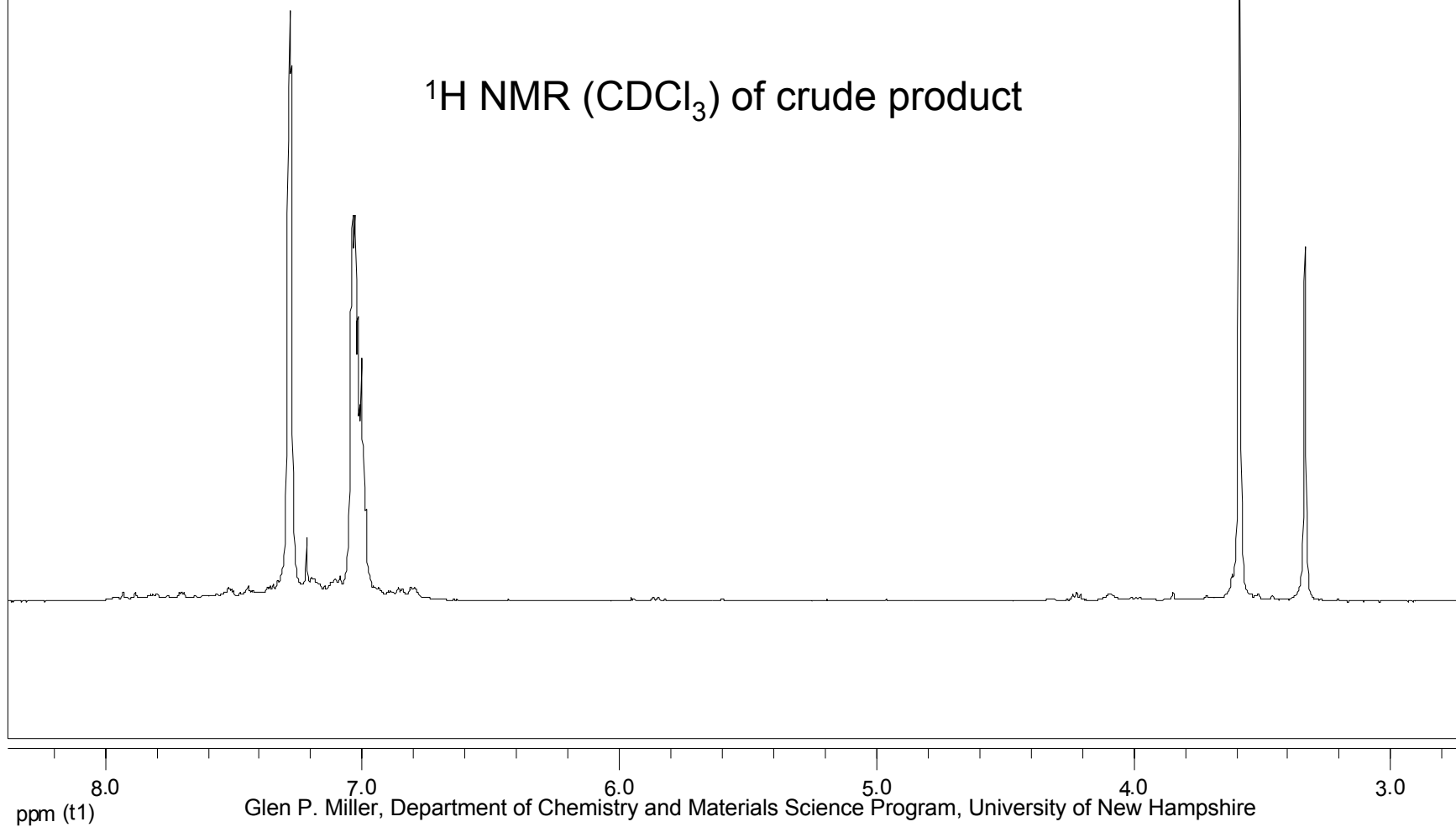
Data: TPDHP_10001.A16 29 Jul 2005 10:25 Cal: David 28 Jun 2005 10:46
Kratos PC Axima CFRplus V2.3.4: Mode reflectron_1ghz, Power: 69, P.Ext. @ 2000 (bin 144)

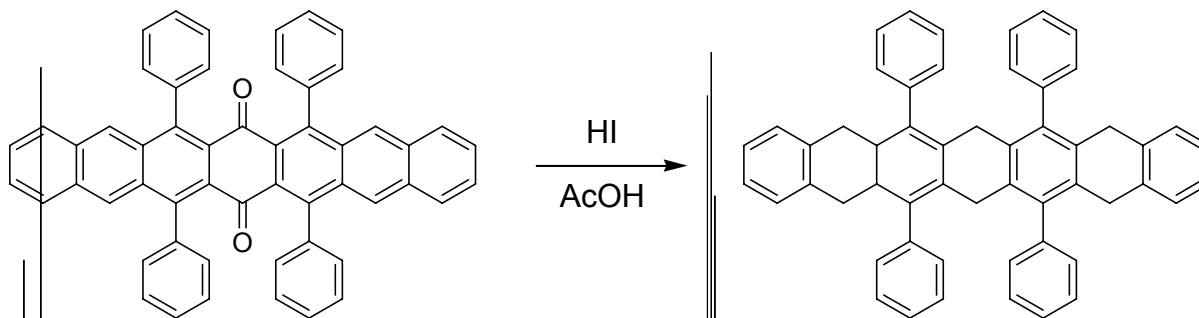
117 mV[sum= 11678 mV] Profiles 1-100 Smooth Av 2 -Baseline 80



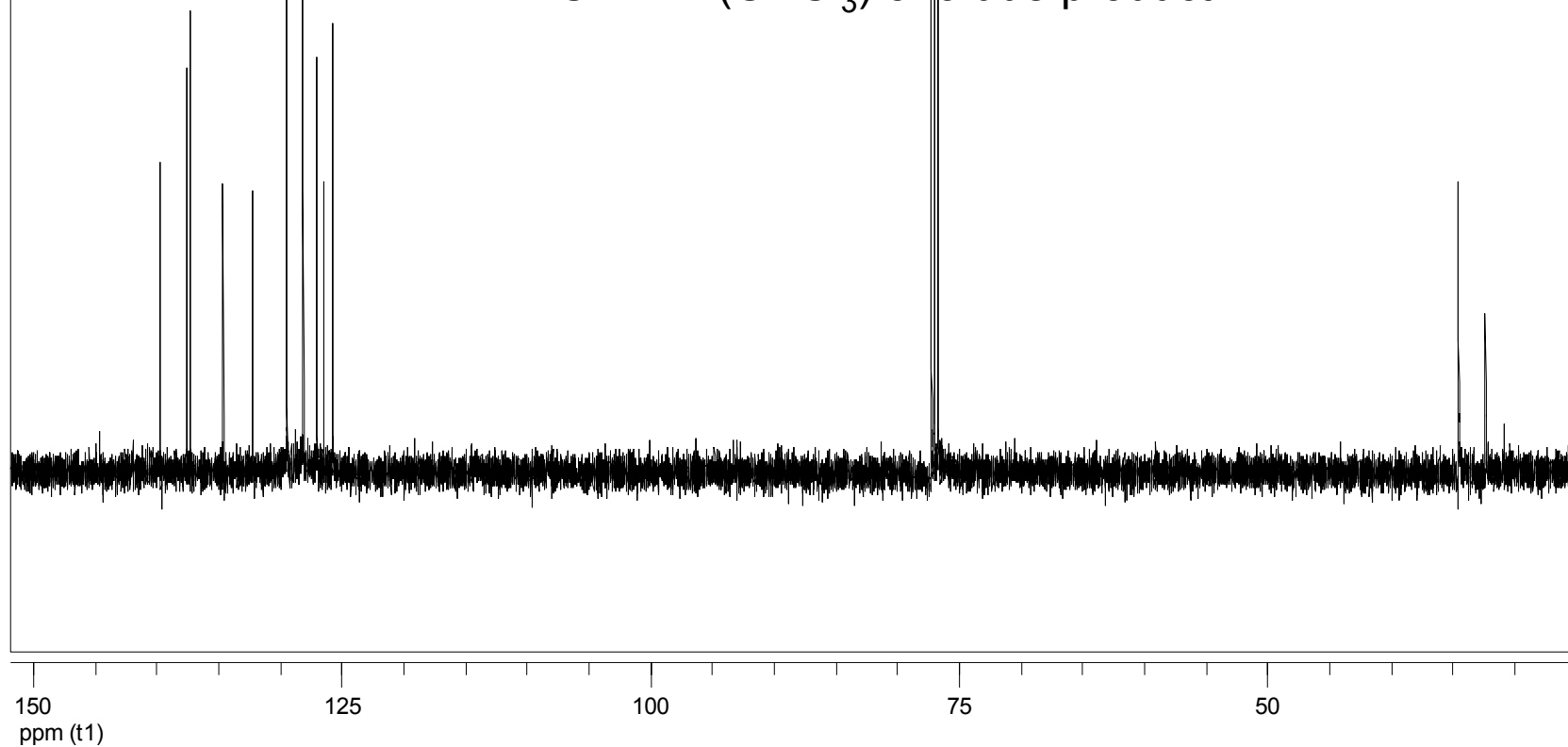


^1H NMR (CDCl_3) of crude product





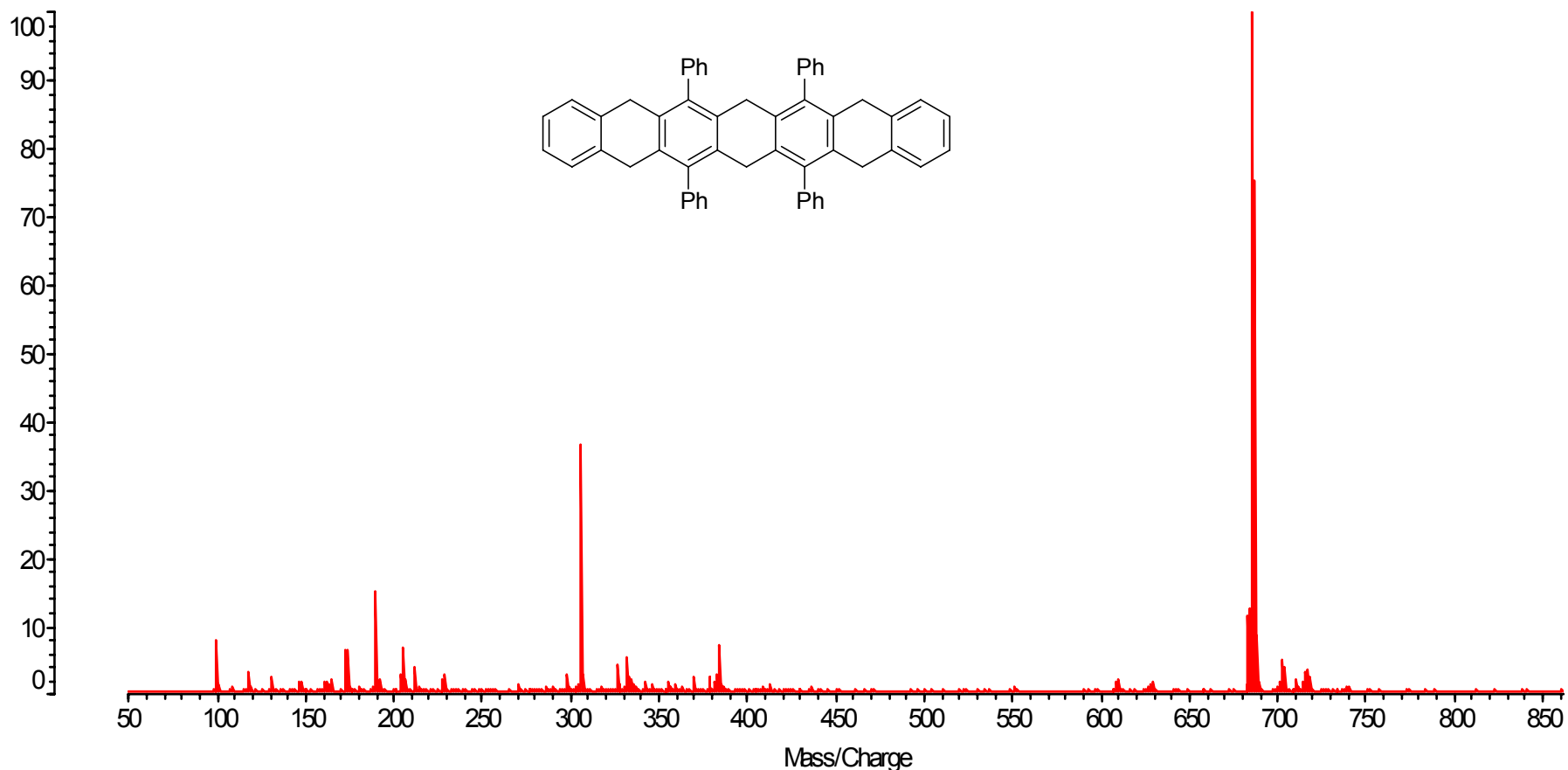
¹³C NMR (CDCl₃) of crude product



MALDI MS

Data: jb101801_Hexahydroheptacene0001.L23 2 Nov 2005 9:48 Cal: Briggs 26 Oct 2005 9:36
Kratos PC Axima CFRplus V2.3.4: Mode reflectron, Power: 110, P.Ext. @688 (bin 90)

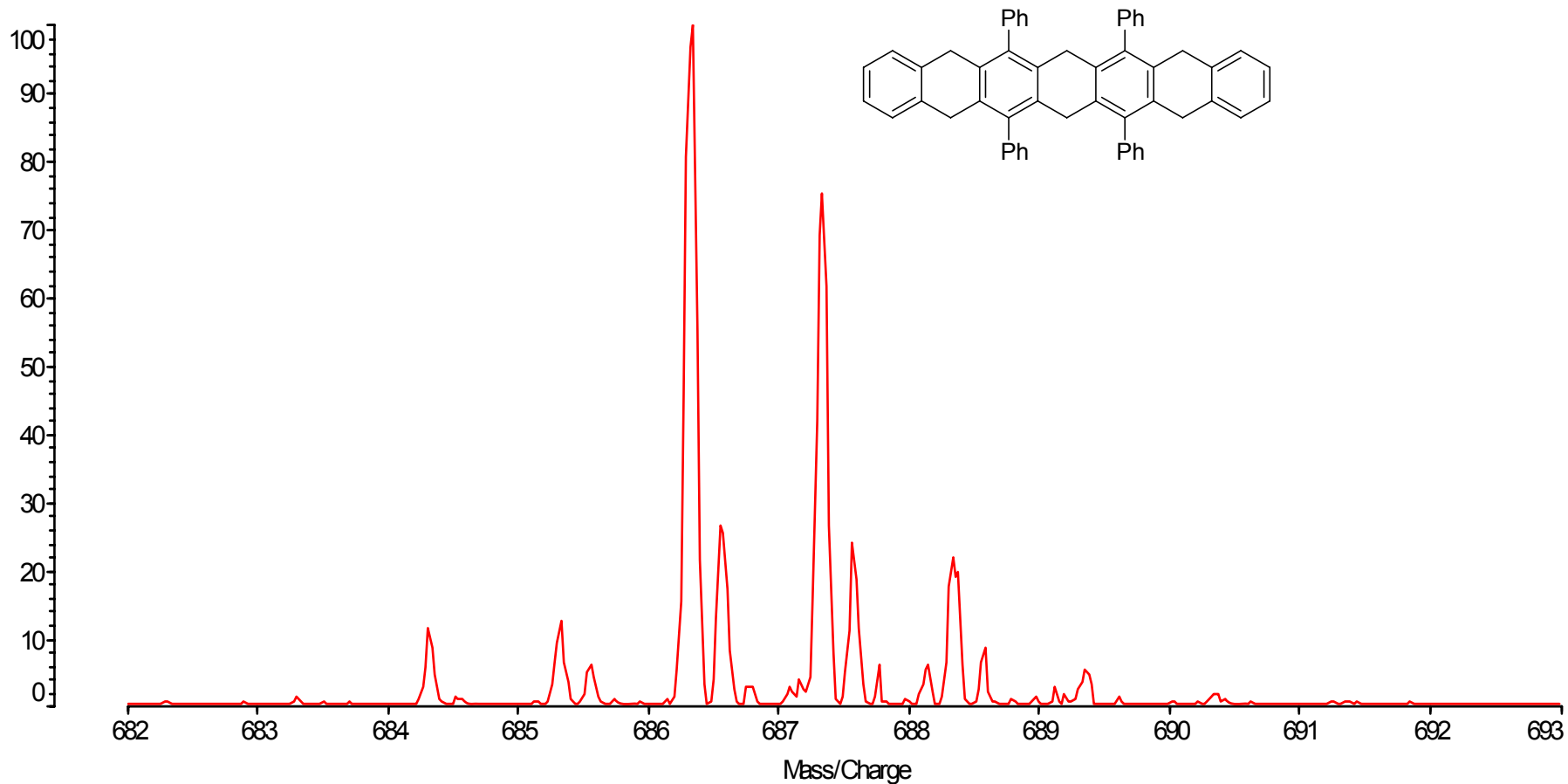
%Int. 39 mV[sum= 9026 mV] Profiles 1-234: Averaged



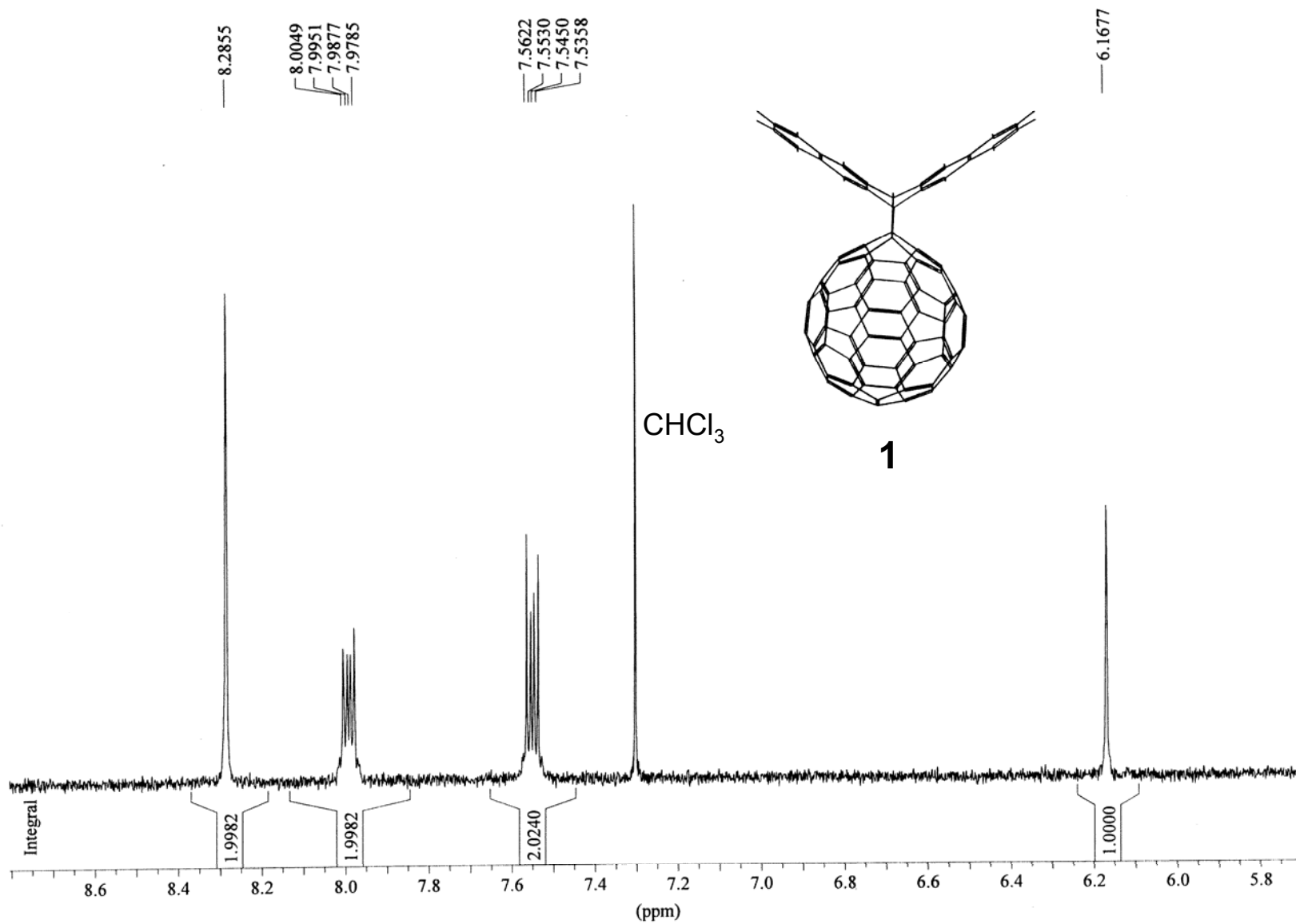
MALDI MS

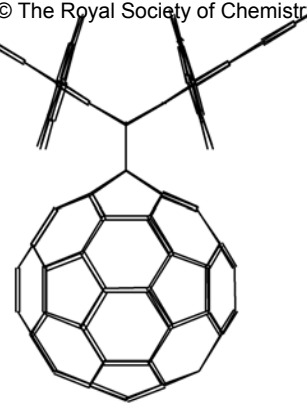
Data: jb101801_Hexahydroheptacene0001.L23 2 Nov 2005 9:48 Cal: Briggs 26 Oct 2005 9:36
Kratos PC Axima CFRplus V2.3.4: Mode reflectron, Power: 110, P.Ext. @688 (bin 90)

%Int. 39 mV[sum= 9026 mV] Profiles 1-234: Averaged

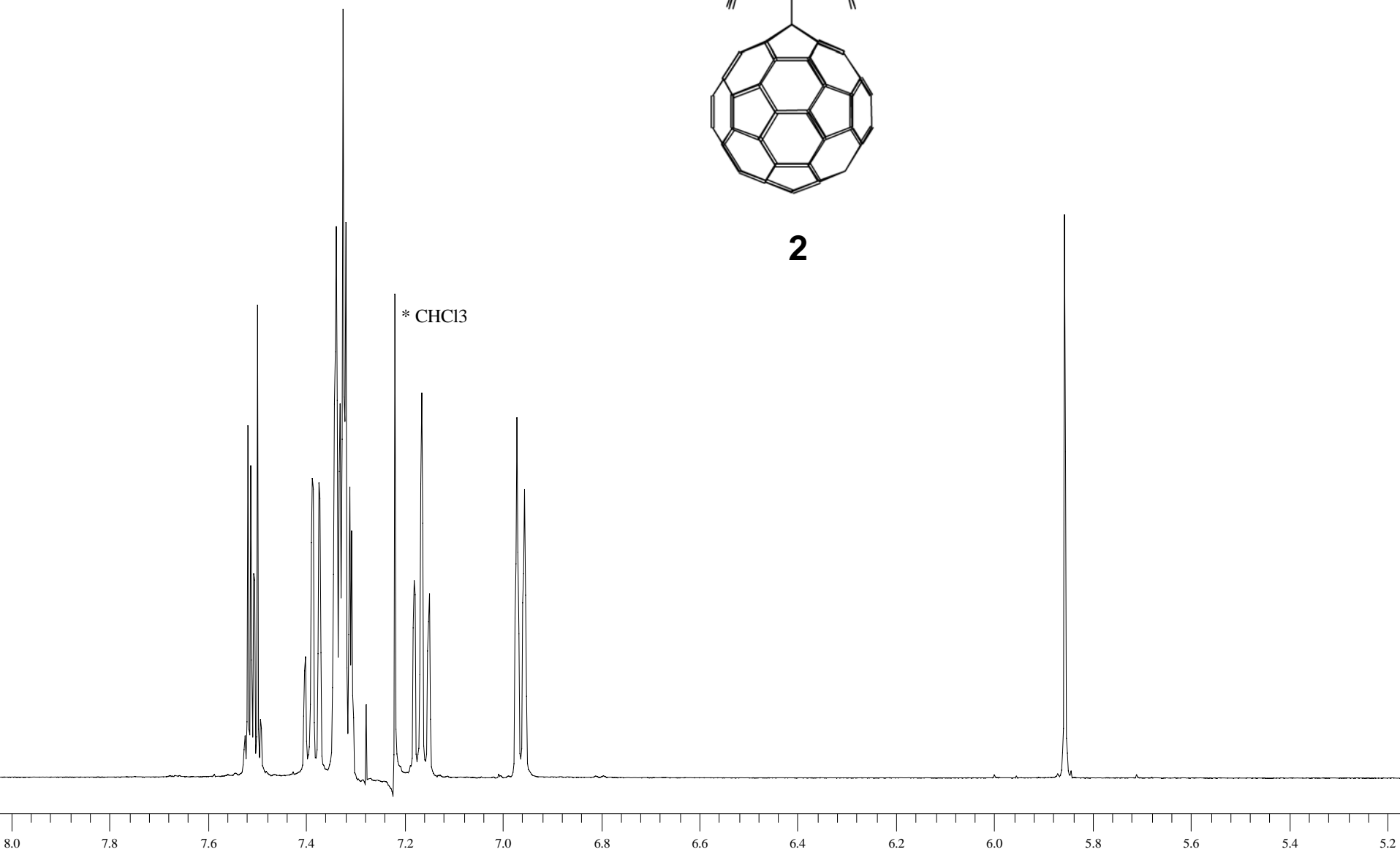


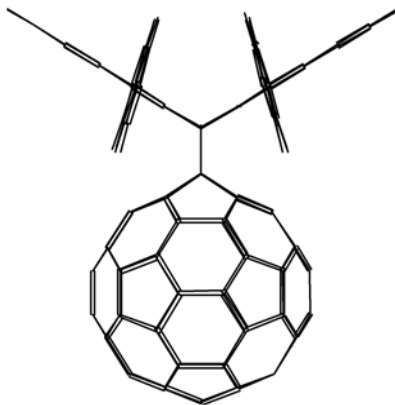
C60-PENTACENE MONOADDUCT



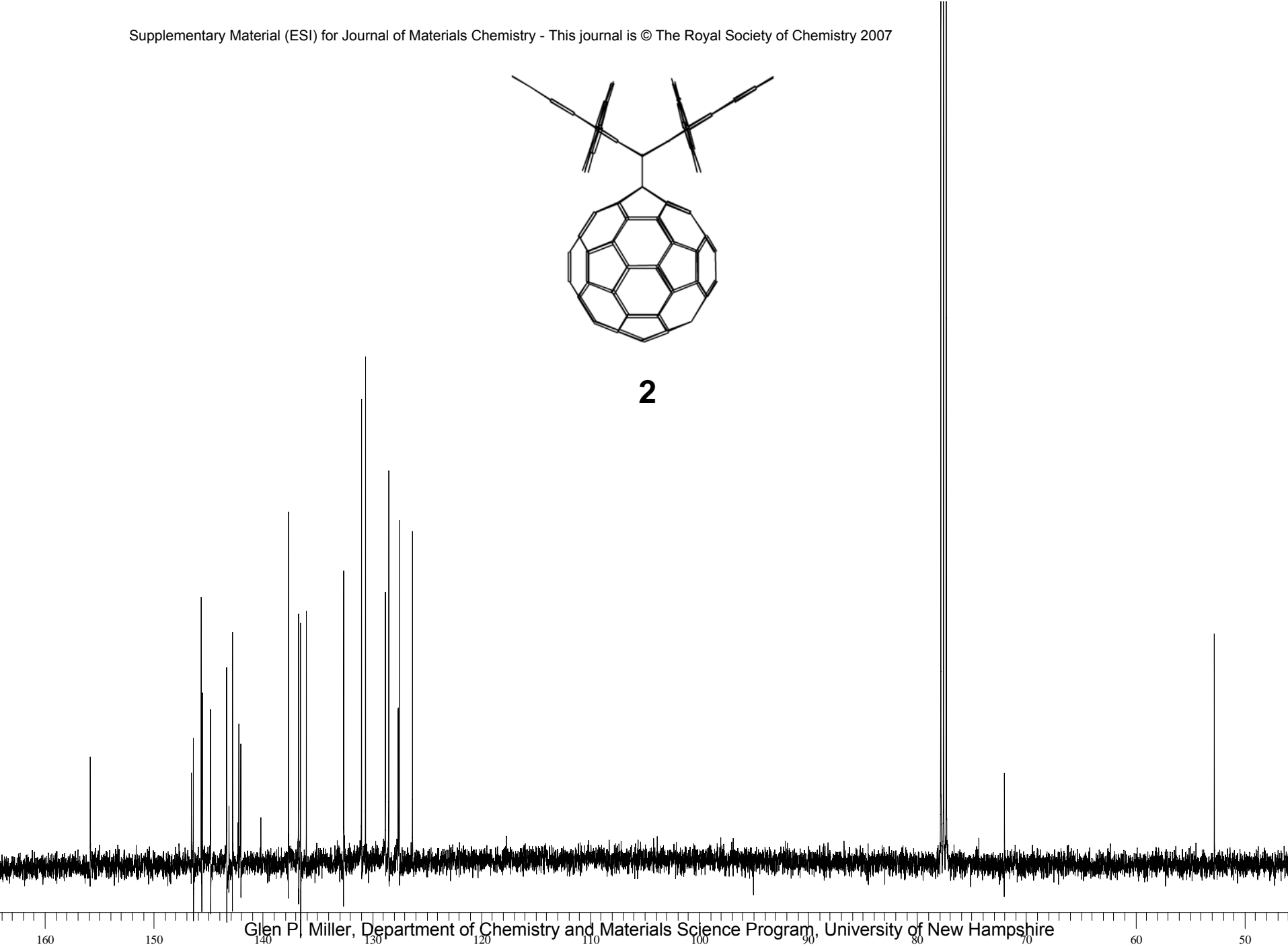


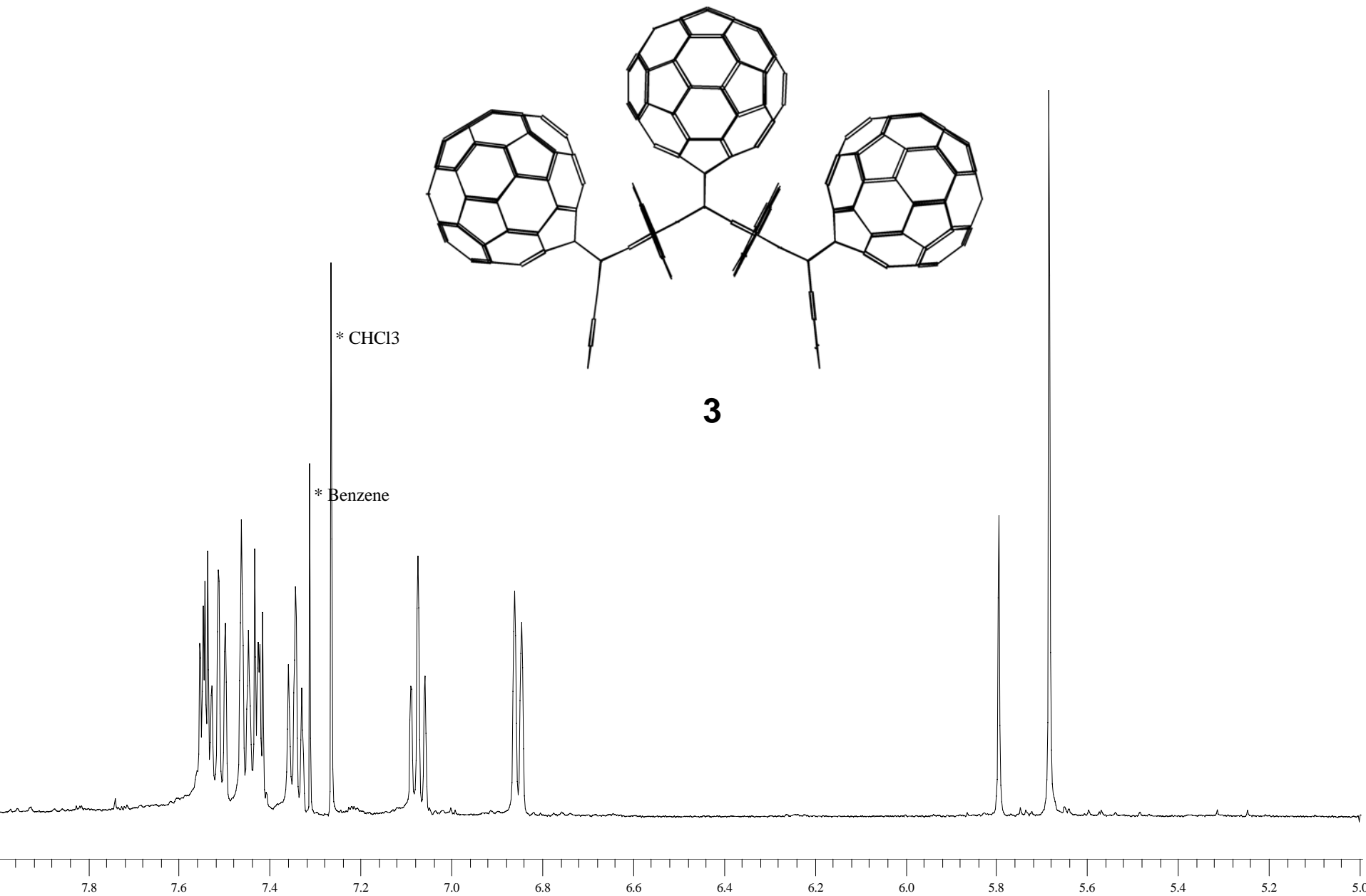
2



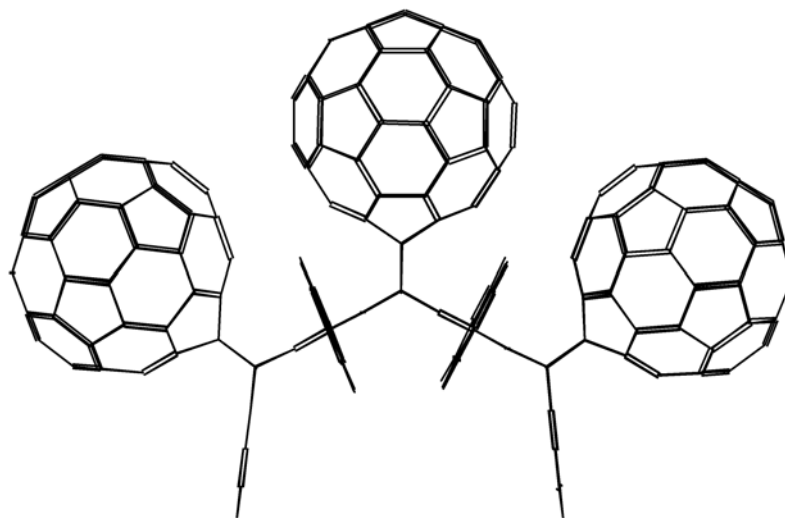


2

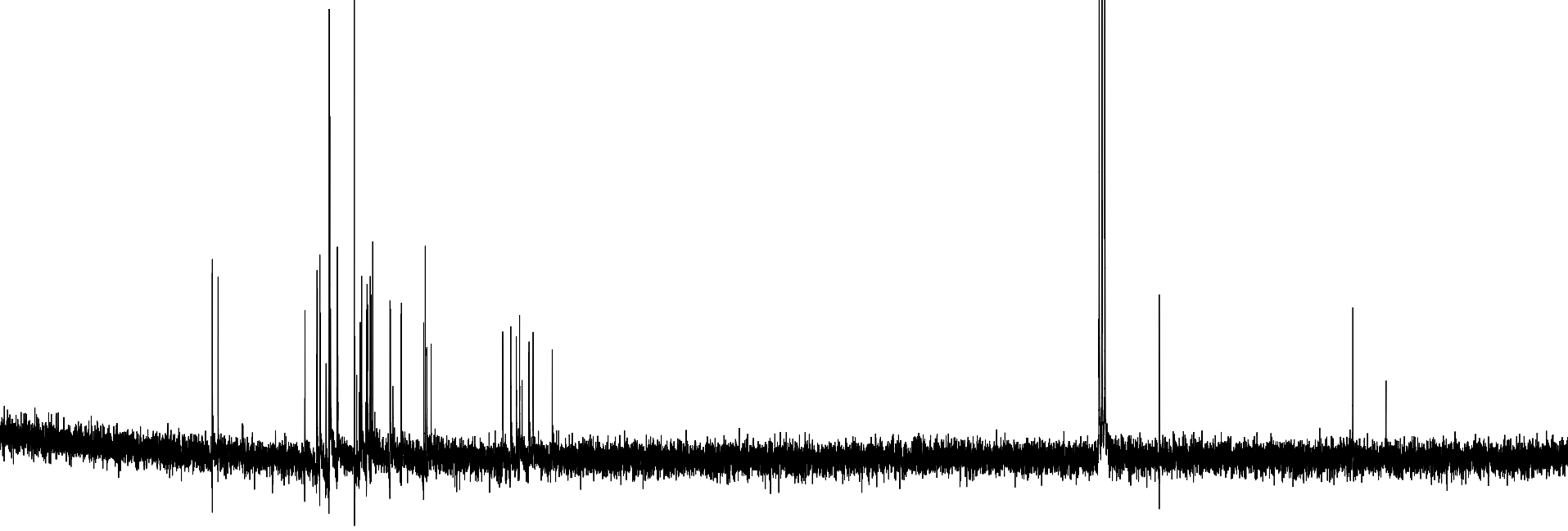




[60]Fullerene *



3



Data: trisadduct_nomatrix0001.I21 26 Oct 2005 10:13 Cal: Briggs 26 Oct 2005 9:36
Kratos PC Axima CFRplus V2.3.4: Mode reflectron, Power: 88, P.Ext. @2842 (bin 183)

%Int. 393 mV[sum= 196706 mV] Profiles 1-500: Averaged

