

Supporting information for

Improved Synthesis of Bioactive Stilbene Derivatives Applying Design of Experiments to the Heck-Matsuda Reaction

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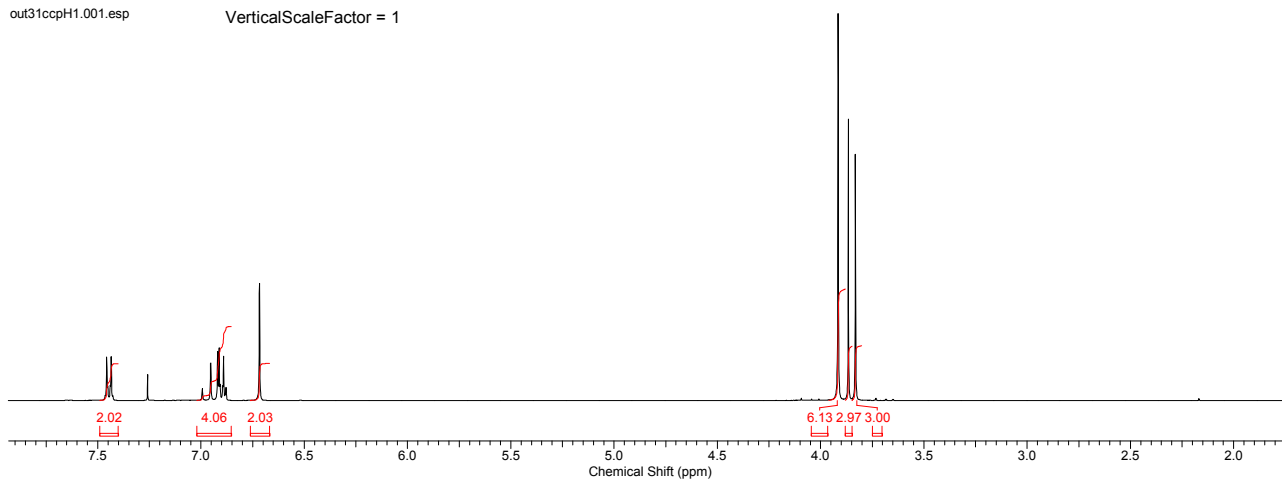
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Acquisition Time (sec)	1.9923	Comment	Carla pMeOIC - CDCI3 - Av 400MHz - out31ccpH1	Date	31 Oct 2012 14:46:56
Date Stamp	31 Oct 2012 14:46:56	File Name	C:\Users\carla\Documents\laboratório\pos doc\rmn2012\out31ccpH1\1fid		
Frequency (MHz)	400.18	Nucleus	1H	Number of Transients	16
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Receiver Gain	144.00	SW(cyclical) (Hz)	8223.68	Solvent	CHLOROFORM-d
Spectrum Offset (Hz)	2455.7114	Spectrum Type	STANDARD	Sweep Width (Hz)	8223.18
				Temperature (degree C)	22.860

out31ccpH1.001.esp

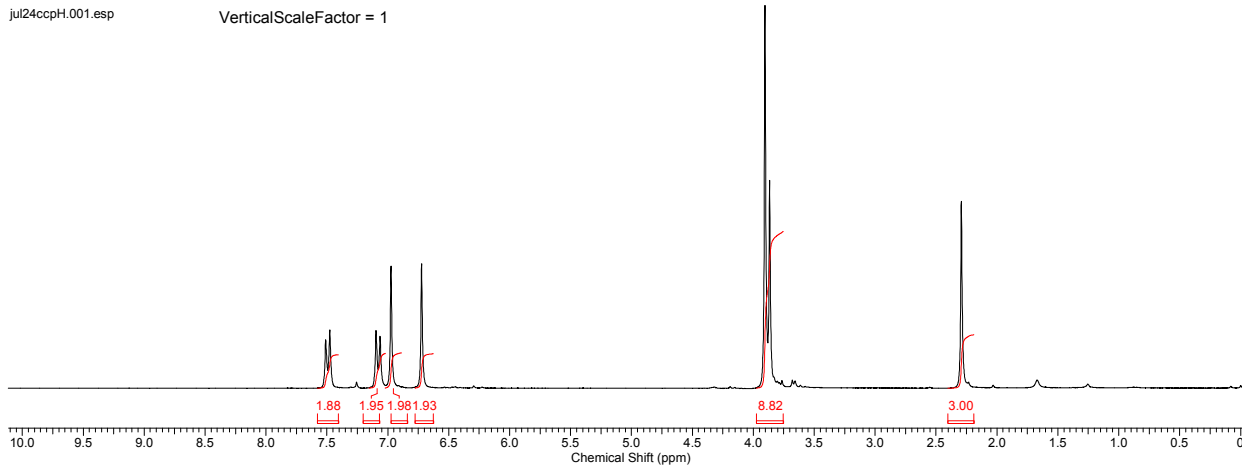
VerticalScaleFactor = 1

Figure S9: ^1H NMR (400 MHz, CDCl_3) of **3**.

Acquisition Time (sec)	3.1654	Comment	Carla CDCI3 CCP03PUR jul24ccpH	Date	24 Jul 2012 17:58:40
Date Stamp	24 Jul 2012 17:58:40	File Name	C:\Users\carla\Documents\laboratório\pos doc\rmn2012\jul24ccpH1\1fid		
Frequency (MHz)	250.13	Nucleus	1H	Number of Transients	16
Original Points Count	16384	Owner	root	Points Count	16384
Receiver Gain	287.40	SW(cyclical) (Hz)	5175.98	Solvent	CHLOROFORM-d
Spectrum Offset (Hz)	1749.7061	Spectrum Type	STANDARD	Sweep Width (Hz)	5175.67
				Temperature (degree C)	25.160

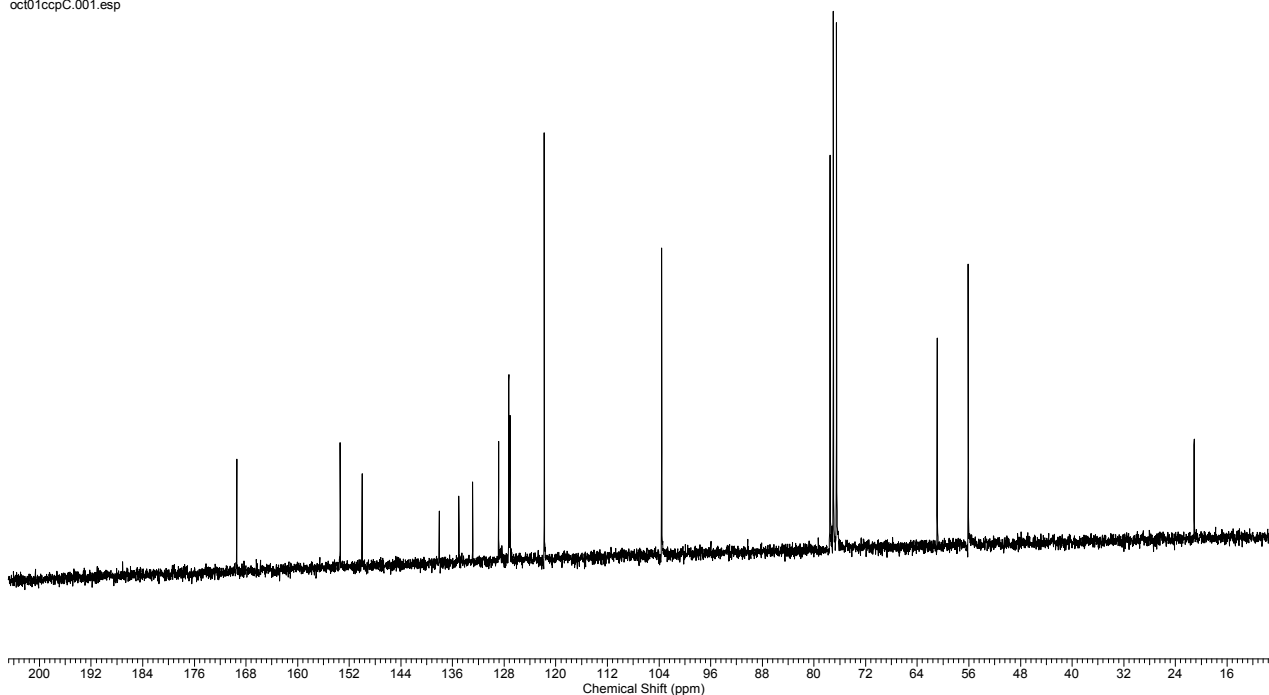
jul24ccpH.001.esp

VerticalScaleFactor = 1

Figure S1: ^1H NMR (250 MHz, CDCl_3) of **5**.

Acquisition Time (sec)	0.5439	Comment	ac05 Carla 250 MHz oct01ccpC	Date	01 Oct 2012 16:09:52
Date Stamp	01 Oct 2012 16:09:52	File Name	C:\Users\carla\Documents\laboratório\pos doc\vmn\2012\oct01ccpC\1.fid	Origin	spect
Frequency (MHz)	62.90	Nucleus	¹³ C	Number of Transients	1024
Original Points Count	8192	Owner	root	Points Count	8192
Receiver Gain	322.50	SW(cyclical) (Hz)	15060.24	Solvent	CHLOROFORM-d
Spectrum Offset (Hz)	6287.0034	Spectrum Type	STANDARD	Sweep Width (Hz)	15058.40
				Temperature (degree C)	25.160

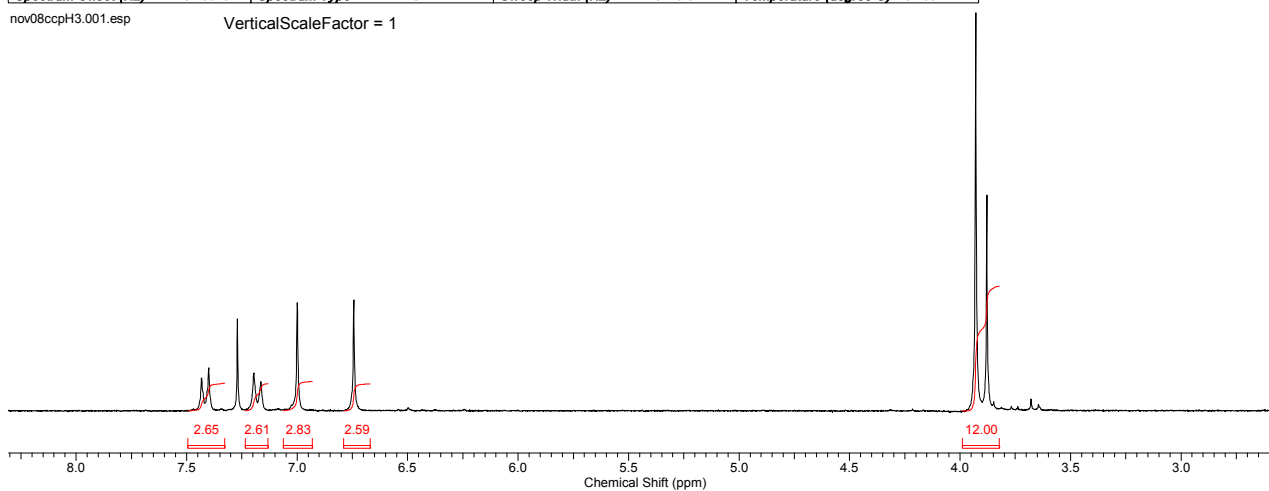
oct01ccpC.001.esp

Figure S2: ¹³C NMR (62.5 MHz, CDCl₃) of **5**

Acquisition Time (sec)	3.1654	Comment	Carla "pme" 250 MHz nov08ccpH3	Date	08 Nov 2012 13:51:28
Date Stamp	08 Nov 2012 13:51:28	File Name	F:\nov08ccpH3\1.fid	Frequency (MHz)	250.13
Nucleus	¹ H	Number of Transients	16	Origin	spect
Points Count	16384	Pulse Sequence	zg30	Original Points Count	16384
Spectrum Offset (Hz)	1752.8923	Spectrum Type	STANDARD	Receiver Gain	2580.30
				SW(cyclical) (Hz)	5175.98
				Solvent	CHLOROFORM-d
				Sweep Width (Hz)	5175.67
				Temperature (degree C)	25.160

nov08ccpH3.001.esp

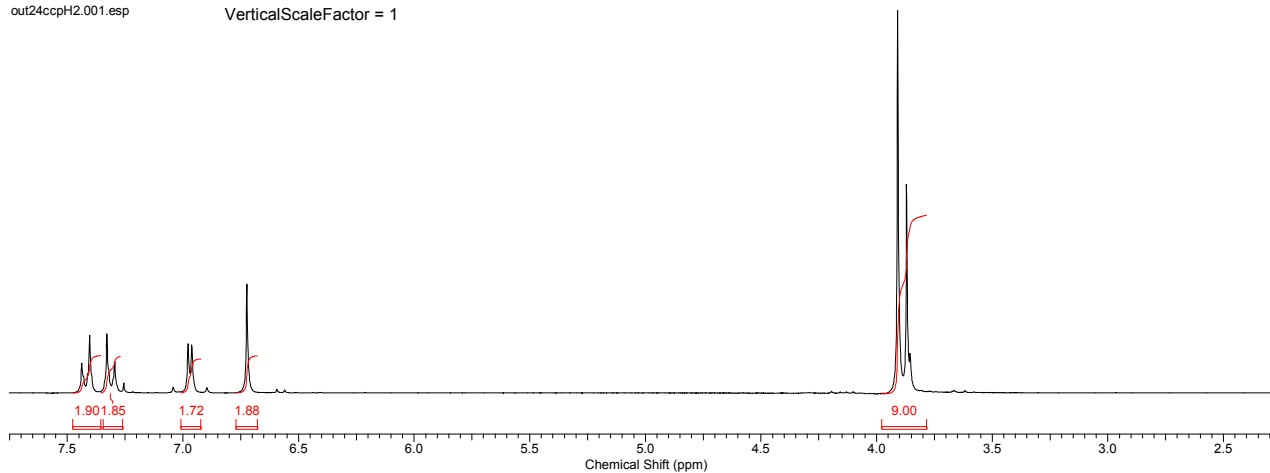
VerticalScaleFactor = 1

Figure S3: ¹H NMR (250 MHz, CDCl₃) of **9**.

Acquisition Time (sec)	3.1654	Comment	carla pClIV 250 MHz out24ccpH2		Date	24 Oct 2012 14:25:36	
Date Stamp	24 Oct 2012 14:25:36	File Name	C:\Users\carla\Documents\laboratório\pos doc\rmn\2012\out24ccpH2\1.fid				
Frequency (MHz)	250.13	Nucleus	1H	Number of Transients	16	Origin	spect
Original Points Count	16384	Owner	root	Points Count	16384	Pulse Sequence	zg30
Receiver Gain	574.70	SW(cyclical) (Hz)	5175.98	Solvent	CHLOROFORM-d		
Spectrum Offset (Hz)	1749.3901	Spectrum Type	STANDARD	Sweep Width (Hz)	5175.67	Temperature (degree C)	25.160

out24ccpH2.001.esp

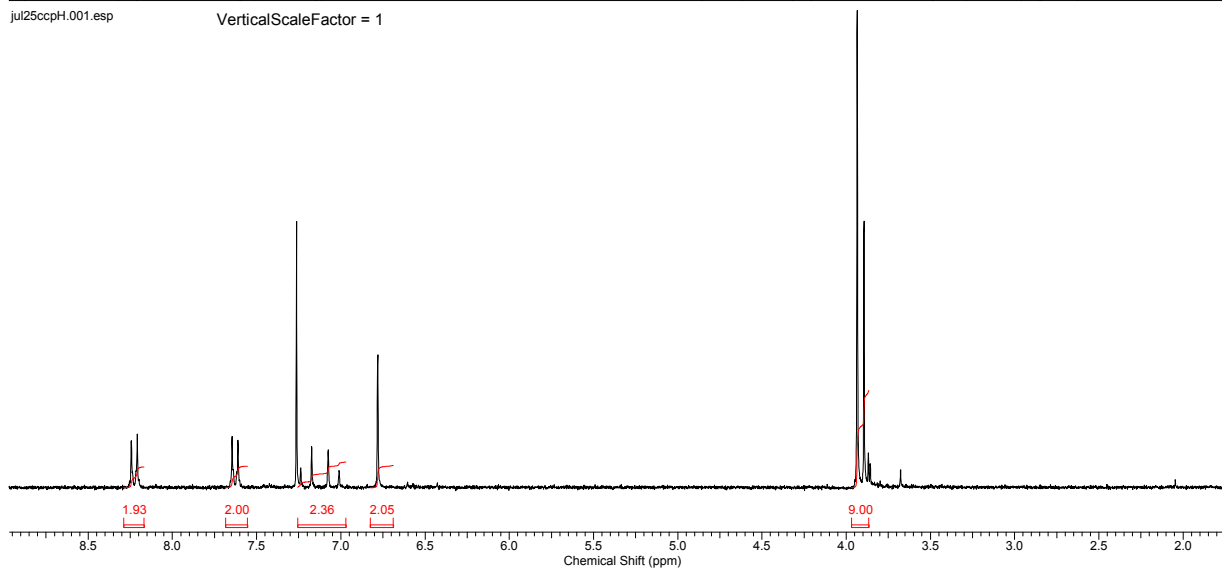
VerticalScaleFactor = 1

Figure S4: ^1H NMR (250 MHz, CDCl_3) of **10**.

Acquisition Time (sec)	3.1654	Comment	Carla pNO2 250 MHz jul25ccpH		Date	25 Jul 2013 13:14:56	
Date Stamp	25 Jul 2013 13:14:56	File Name	F:\jul25ccpH\1.fid				
Frequency (MHz)	250.13	Nucleus	1H	Number of Transients	16	Origin	spect
Original Points Count	16384	Owner	root	Points Count	16384	Pulse Sequence	zg30
Receiver Gain	4096.00	SW(cyclical) (Hz)	5175.98	Solvent	CHLOROFORM-d		
Spectrum Offset (Hz)	1750.9110	Spectrum Type	STANDARD	Sweep Width (Hz)	5175.67	Temperature (degree C)	25.160

jul25ccpH.001.esp

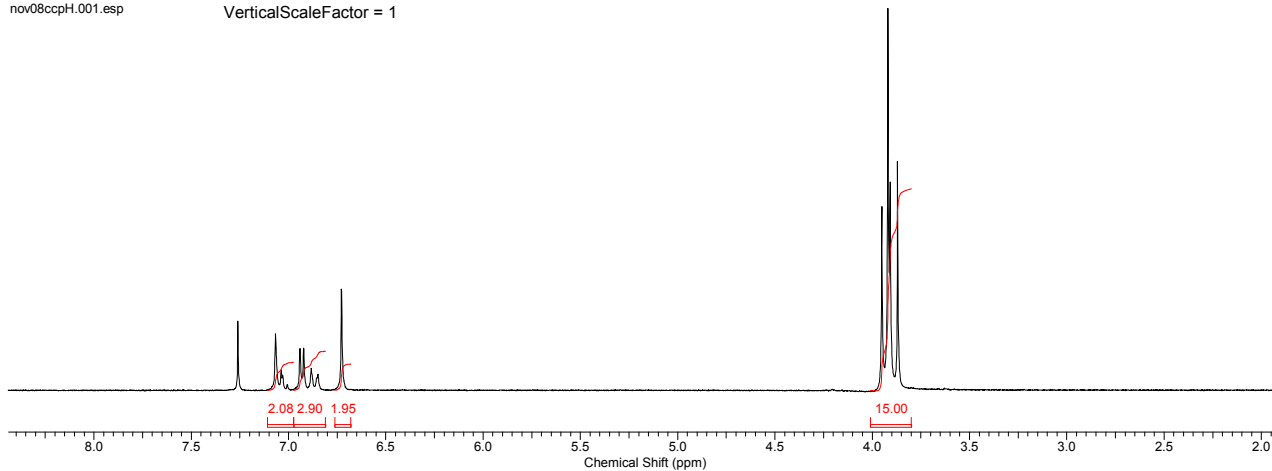
VerticalScaleFactor = 1

Figure S5: ^1H NMR (250 MHz, CDCl_3) of **11**.

Acquisition Time (sec)	3.1654	Comment	Carla "dimeocr" 250 MHz nov08ccpH	Date	08 Nov 2012 13:40:48
Date Stamp	08 Nov 2012 13:40:48	File Name	C:\Users\carla\Documents\laboratório\pos doc\rmn\2012\nov08ccpH\1fid		
Frequency (MHz)	250.13	Nucleus	¹ H	Number of Transients	16
Original Points Count	16384	Owner	root	Points Count	16384
Receiver Gain	2298.80	SW(cyclical) (Hz)	5175.98	Solvent	CHLOROFORM-d
Spectrum Offset (Hz)	1750.3379	Spectrum Type	STANDARD	Sweep Width (Hz)	5175.67
				Temperature (degree C)	25.160

nov08ccpH.001.esp

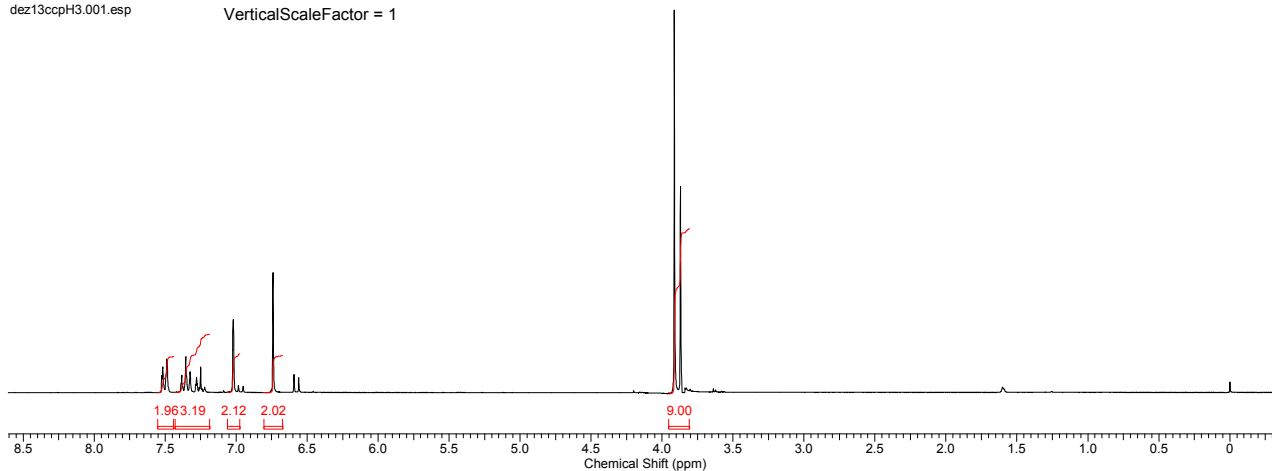
VerticalScaleFactor = 1

Figure S6: ¹H NMR (250 MHz, CDCl₃) of **12**.

Acquisition Time (sec)	3.1654	Comment		Date	Dec 2012
Date Stamp	Dec 2012	File Name	C:\Users\carla\Documents\laboratório\pos doc\rmn\2012\		
Frequency (MHz)	250.13	Nucleus	¹ H	Number of Transients	11
Original Points Count	16384	Owner	root	Points Count	16384
Receiver Gain	574.70	SW(cyclical) (Hz)	5175.98	Solvent	CHLOROFORM-d
Spectrum Offset (Hz)	1747.8105	Spectrum Type	STANDARD	Sweep Width (Hz)	5175.67
				Temperature (degree C)	25.160

dez13ccpH3.001.esp

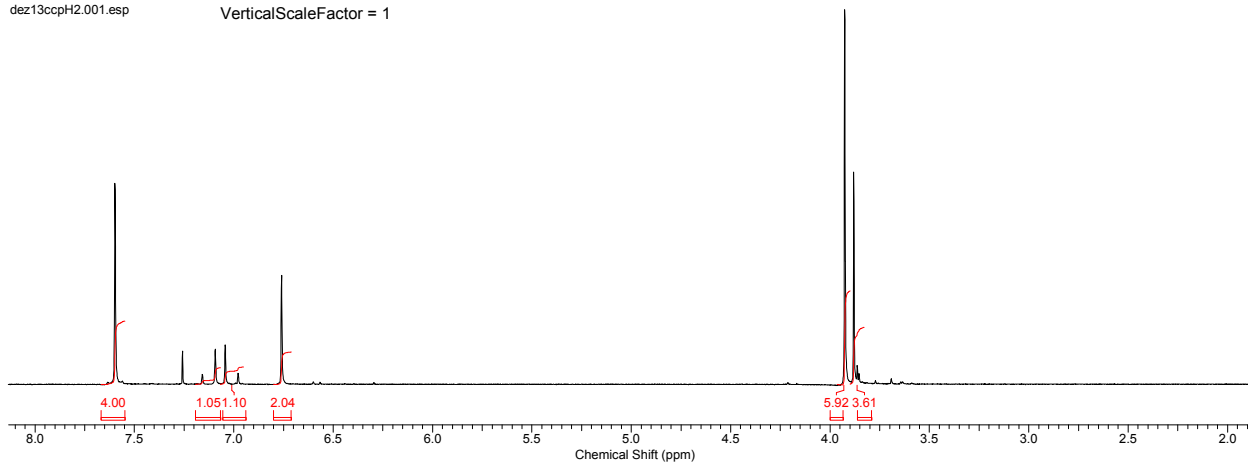
VerticalScaleFactor = 1

Figure S7: ¹H NMR (250 MHz, CDCl₃) of **13**.

Acquisition Time (sec)	3.1654	Comment	olcf3 250 MHz dez13ccpH2	Date	13 Dec 2012 13:08:48
Date Stamp	13 Dec 2012 13:08:48	File Name	C:\Users\carla\Documents\laboratório\pos doc\vrml2012\dez13ccpH2\1fid		
Frequency (MHz)	250.13	Nucleus	1H	Number of Transients	16
Original Points Count	16384	Owner	root	Points Count	16384
Receiver Gain	2298.80	SW(cyclical) (Hz)	5175.98	Solvent	CHLOROFORM-d
Spectrum Offset (Hz)	1749.7061	Spectrum Type	STANDARD	Sweep Width (Hz)	5175.67
				Temperature (degree C)	25.160

dez13ccpH2.001.esp

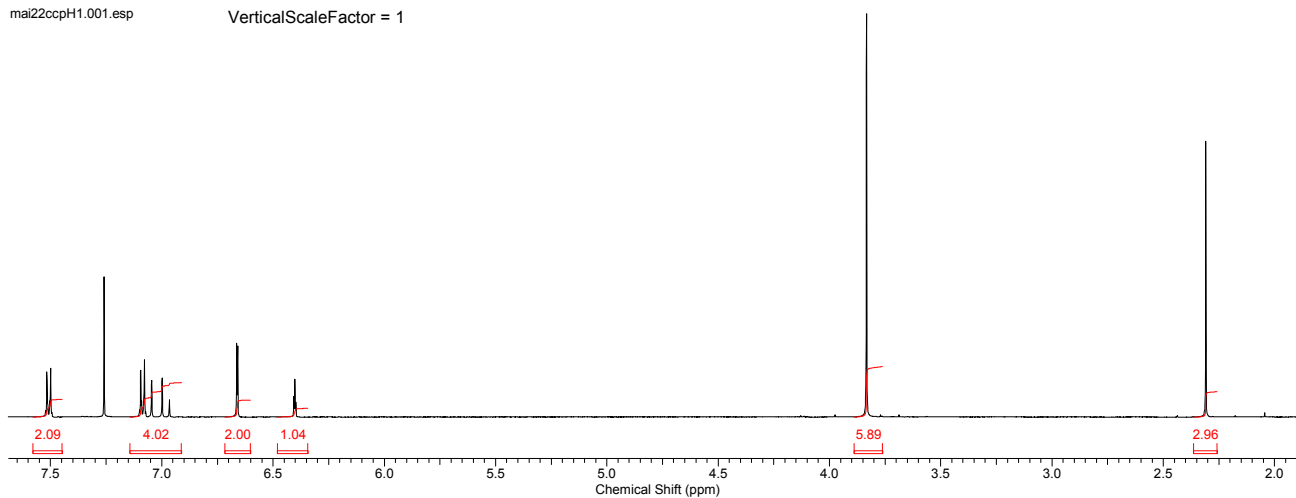
VerticalScaleFactor = 1

Figure S8: ^1H NMR (250 MHz, CDCl_3) of **14**.

Acquisition Time (sec)	1.6384	Comment	Carla "ccp 42"	cdcl3/Av500MHz_mai22ccpH1	Date	23 May 2013 05:17:04	
Date Stamp	23 May 2013 05:17:04	File Name	F:\mai22ccpH1\1fid			Frequency (MHz)	499.87
Nucleus	1H	Number of Transients	32	Origin	spect	Original Points Count	16384
Points Count	16384	Pulse Sequence	zg30	Receiver Gain	181.00	SW(cyclical) (Hz)	10000.00
Spectrum Offset (Hz)	3069.1528	Spectrum Type	STANDARD	Sweep Width (Hz)	9999.39	Temperature (degree C)	25.156

mai22ccpH1.001.esp

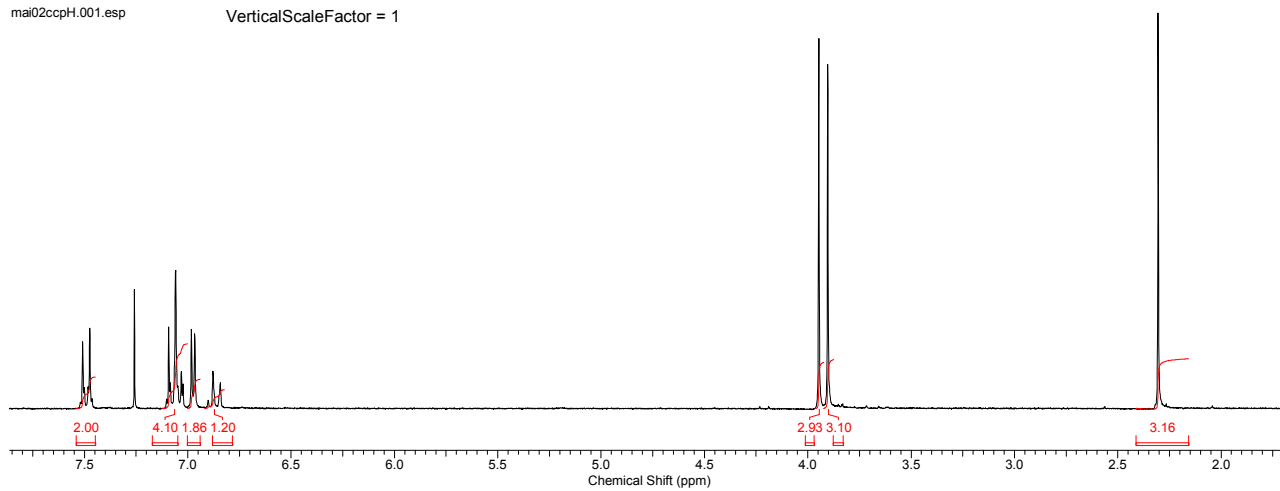
VerticalScaleFactor = 1

Figure S10: ^1H NMR (500 MHz, CDCl_3) of **16**.

Acquisition Time (sec)	3.1654	Comment	ccp41 - Carla - CDCl3 - 2013 - mai02ccpH	Date	02 May 2013 13:49:04
Date Stamp	02 May 2013 13:49:04	File Name	F:\mai02ccpH\1fid	Frequency (MHz)	250.13
Nucleus	¹ H	Number of Transients	16	Origin	spect
Points Count	16384	Pulse Sequence	zg30	Original Points Count	16384
Spectrum Offset (Hz)	1749.7061	Spectrum Type	STANDARD	Receiver Gain	2298.80
				SW(cyclical) (Hz)	5175.98
				Sweep Width (Hz)	5175.67
				Temperature (degree C)	25.160
				Owner	root
				Solvent	CHLOROFORM-d

mai02ccpH.001.esp

VerticalScaleFactor = 1

Figure S11: ¹H NMR (250 MHz, CDCl₃) of **18**.