

Total Synthesis of (–)-Marinisorolide C

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Copies of ^1H and ^{13}C NMR, IR, and HRMS spectra for fragment C23–C35:

Acquisition Time (sec)	3.1654	Comment	Emilio EJR-021PA C6D6 250 MHz set06ejrH2	Date	06 Sep 2011 09:54:42
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				Points Count	32768
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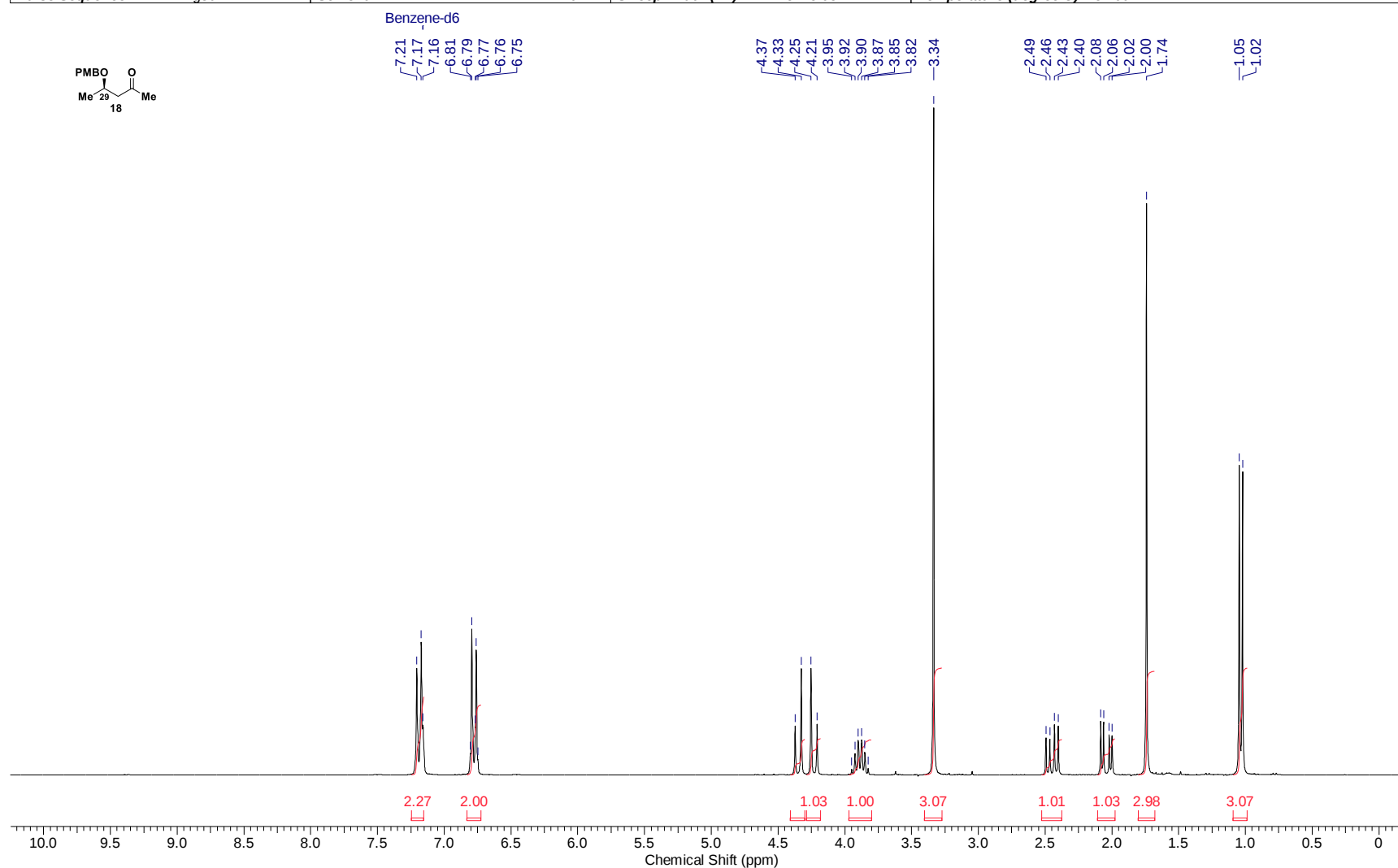


Figure S1: ^1H NMR spectrum of compound **18** (250 MHz; C_6D_6).

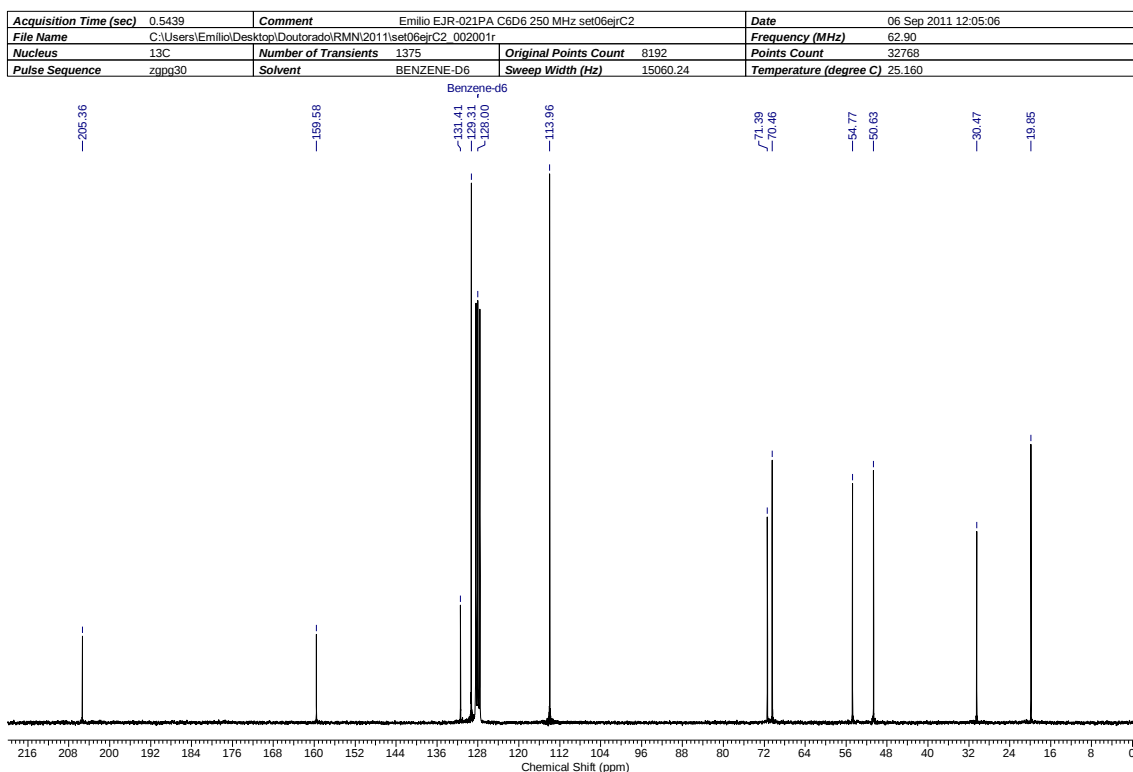


Figure S2: ^{13}C NMR spectrum of compound **18** (62.5 MHz; C_6D_6).

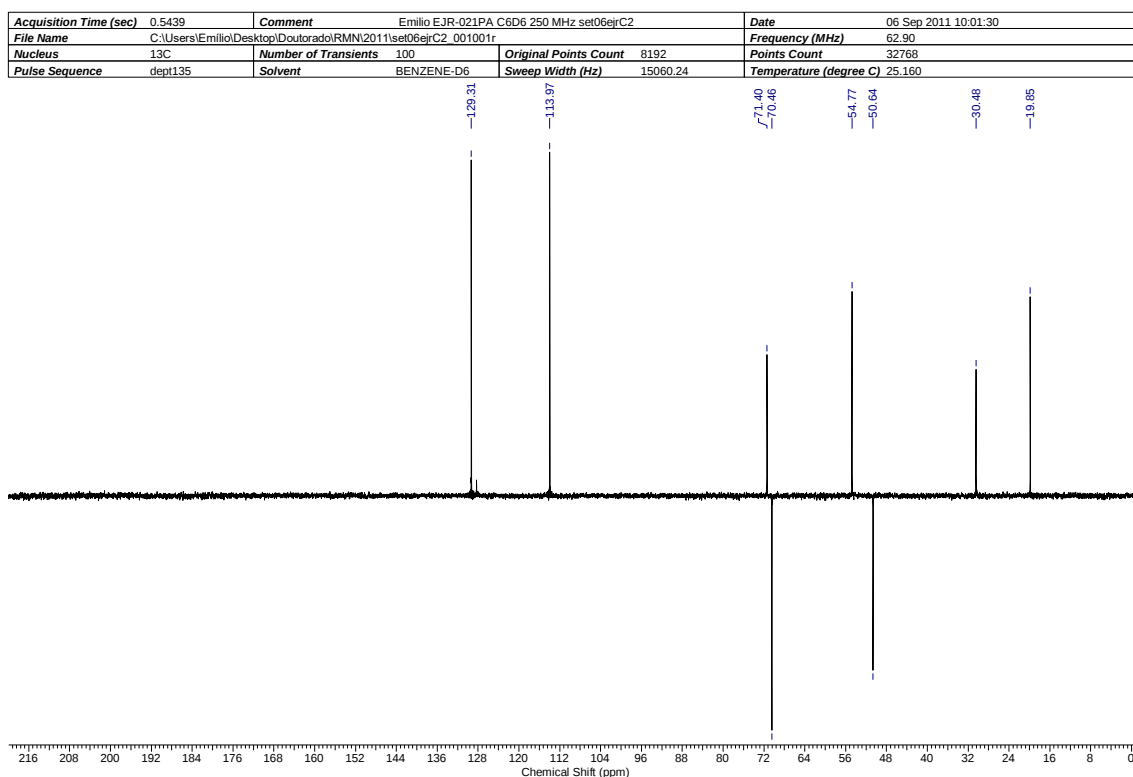


Figure S3: ^{13}C NMR (dept 135) spectrum of compound **18** (62.5 MHz; C_6D_6).

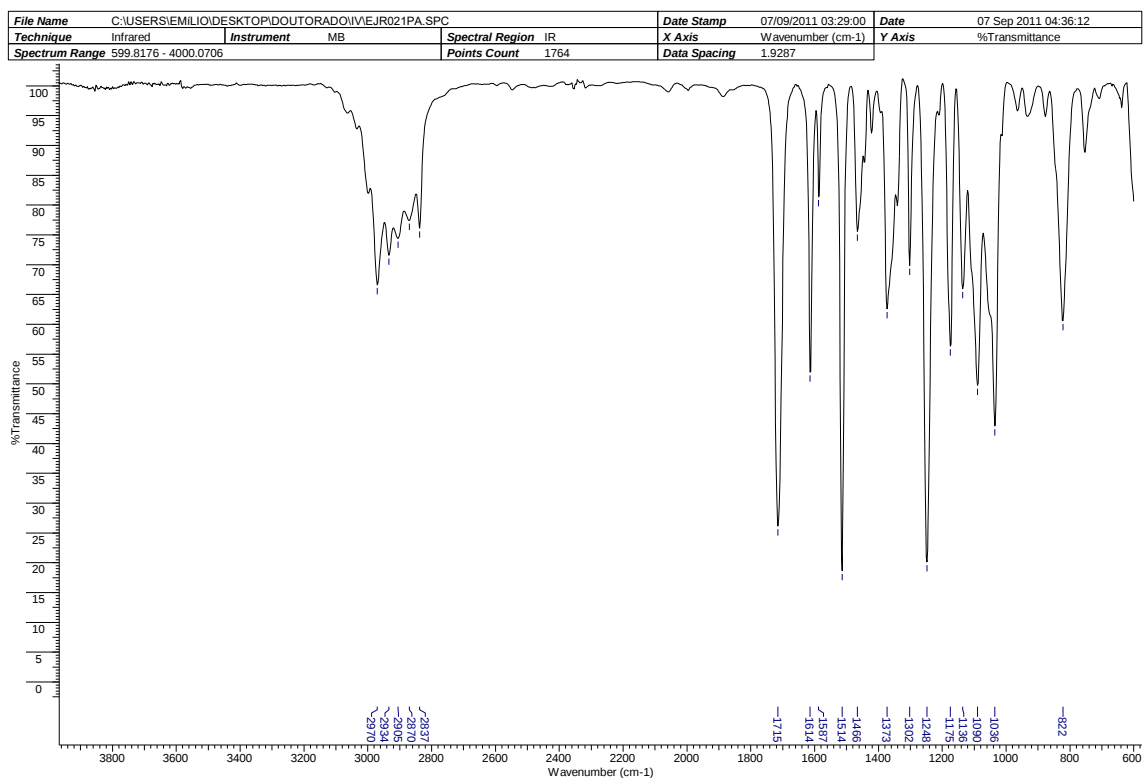


Figure S4: IR spectrum of compound **18**.

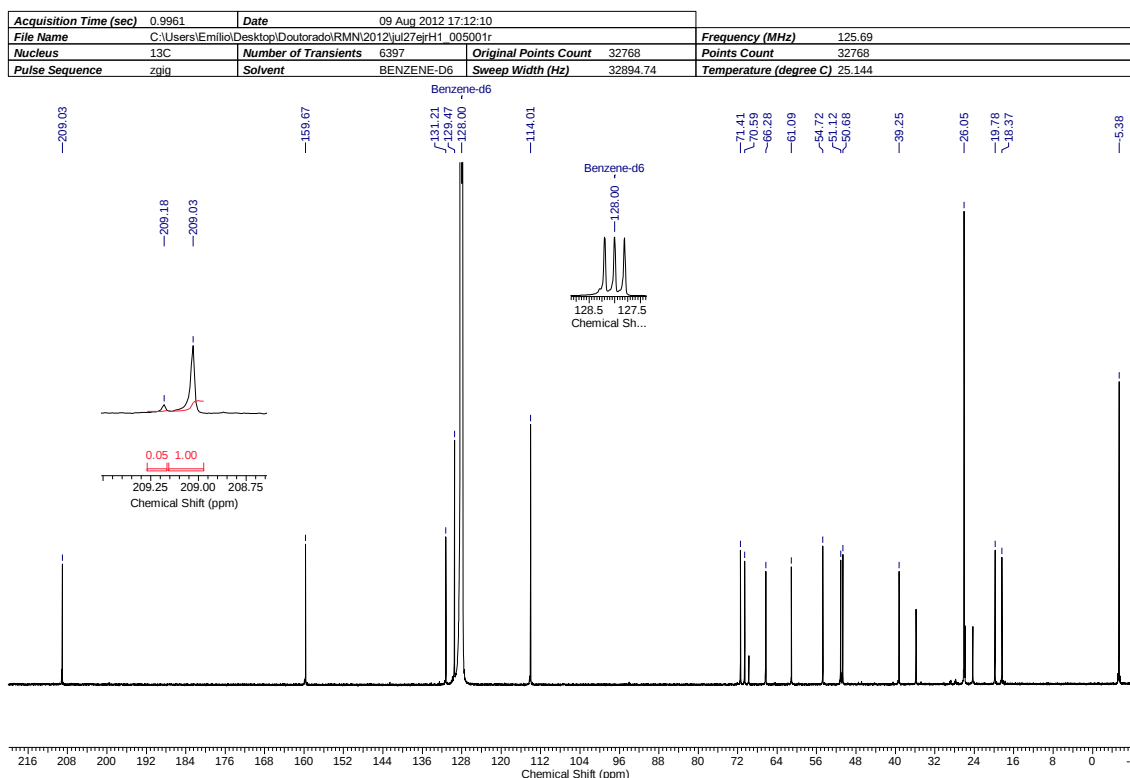


Figure S6: ^{13}C NMR spectrum of compound **28** (125 MHz; C_6D_6).

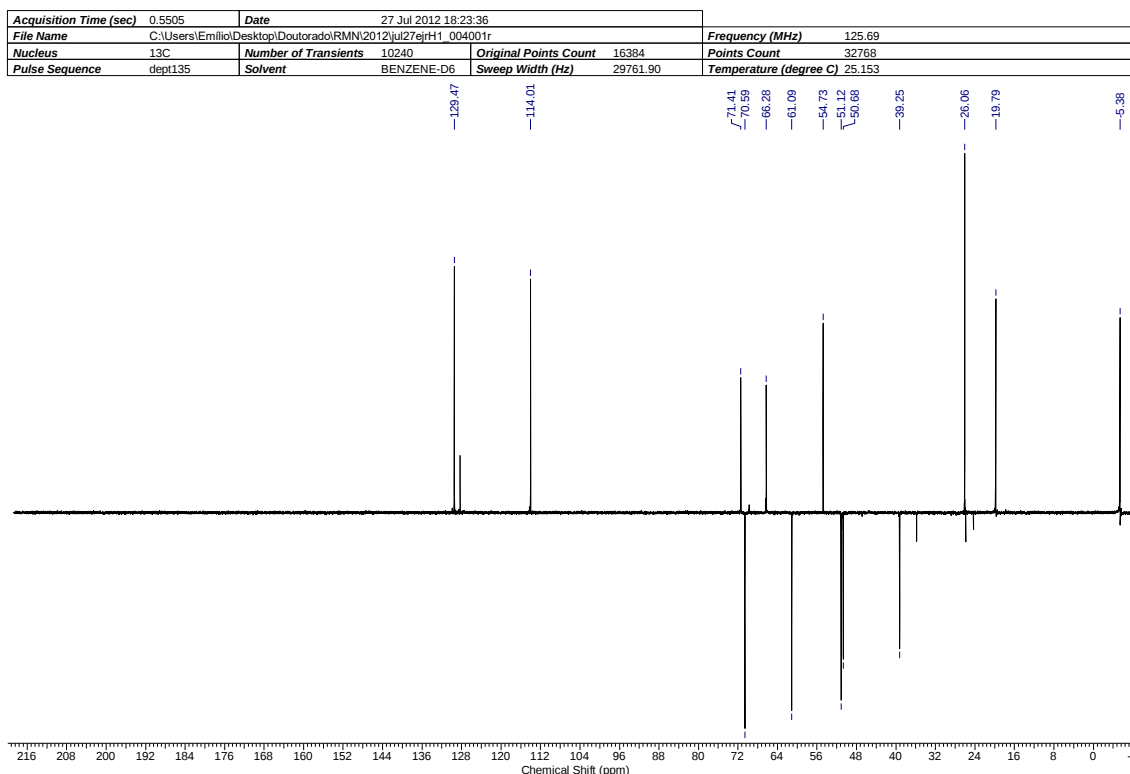


Figure S7: ^{13}C NMR (dept 135) spectrum of compound **28** (125 MHz; C_6D_6).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\VEJR060P.SPC			Date Stamp	23/11/2012 06:55:00
Date	23 Nov 2012 06:56:14	Technique	Infrared	Instrument	MB	Spectral Region	IR
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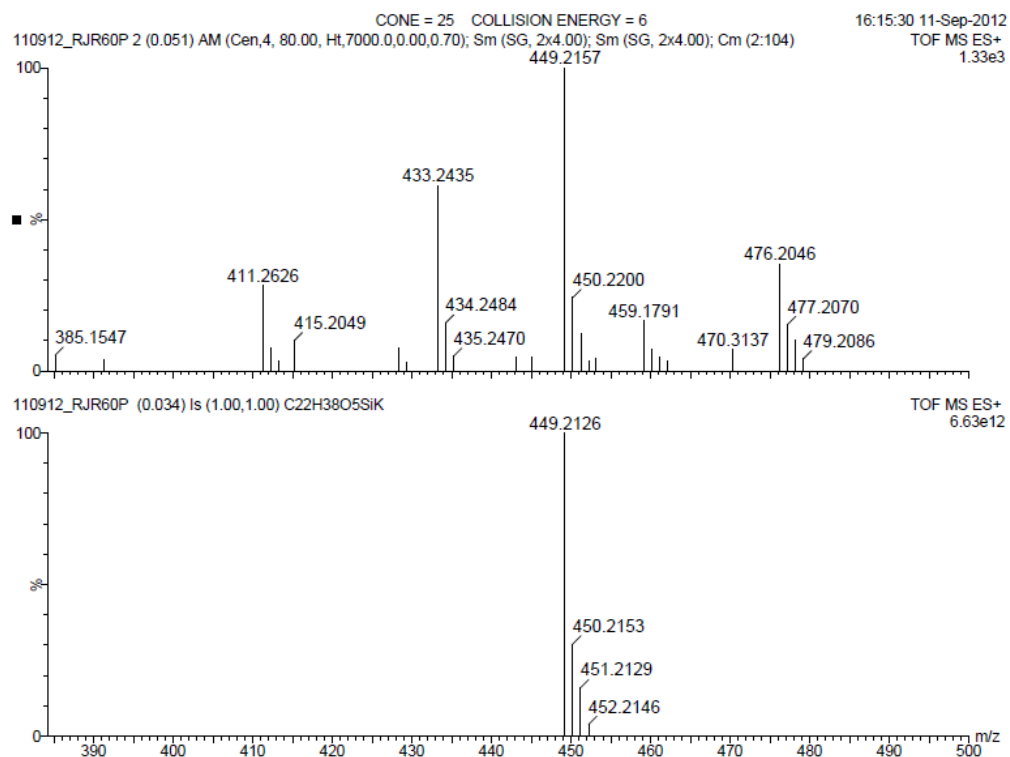
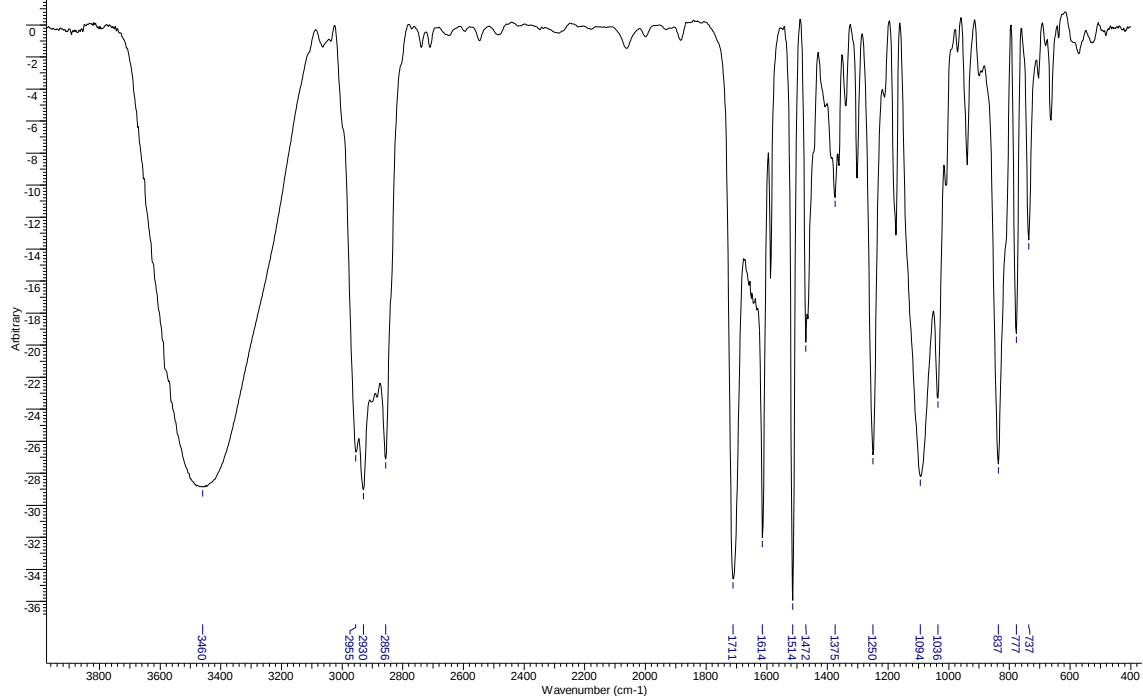


Figure S8: IR and HRMS (ESI TOF-MS) spectra of compound **28**.

Acquisition Time (sec)	2.6564	Date	14 Aug 2012 17:20:16	Frequency (MHz)	600.17
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\ago14\ejrH1_001001r	Number of Transients	16	Original Points Count	32768
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Temperature (degree C)	25.207	Sweep Width (Hz)	12335.53

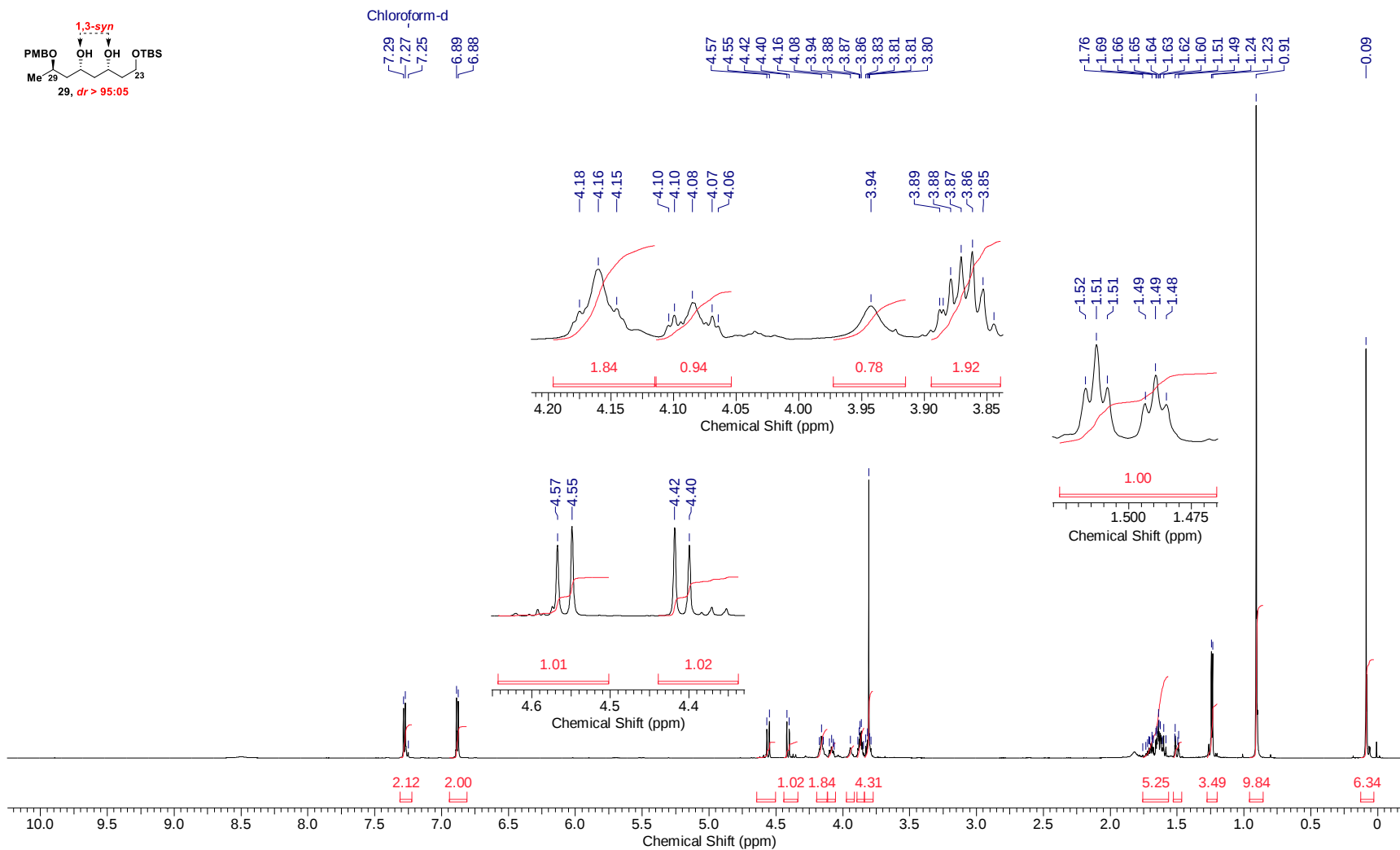


Figure S9: ¹H NMR spectrum of compound **29** (600 MHz; CDCl₃).

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File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\ago14\ejrH1_003001r	Number of Transients	2601	Original Points Count	16384
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Pulse Sequence	zgpg30	Sweep Width (Hz)	36057.69		
Temperature (degree C)	25.193				

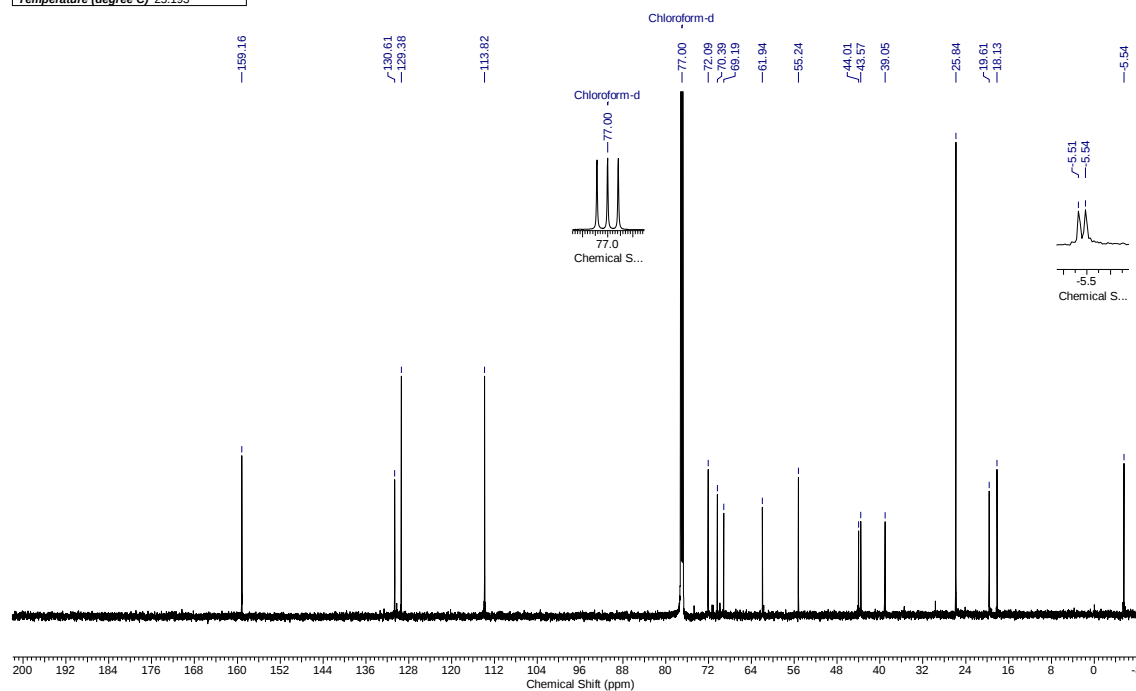


Figure S10: ¹³C NMR spectrum of compound **29** (150 MHz; CDCl₃).

Acquisition Time (sec)	0.4544	Date	14 Aug 2012 18:24:38	Frequency (MHz)	150.91
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\ago14\ejrH1_002001r	Number of Transients	1024	Original Points Count	16384
Nucleus	¹³ C	Solvent	CHLOROFORM-D	Points Count	65536
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Temperature (degree C)	25.198				

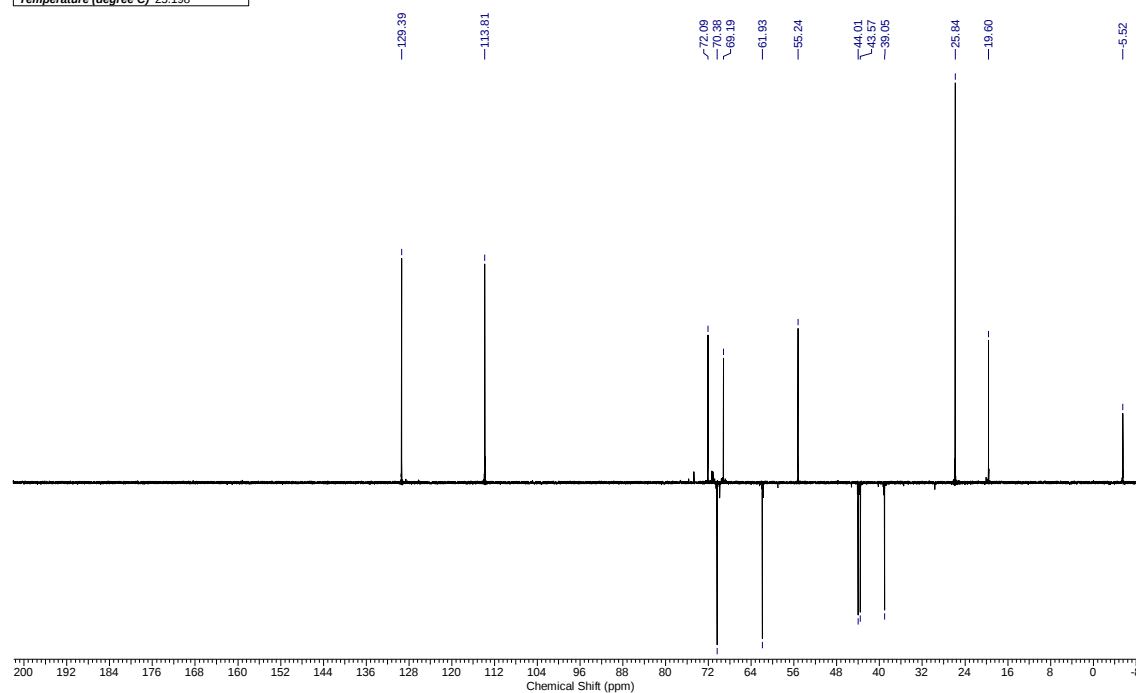


Figure S11: ¹³C NMR (dept 135) spectrum of compound **29** (150 MHz; CDCl₃).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\VEJR065P.SPC	Date Stamp	23/11/2012 06:48:00
Date	23 Nov 2012 06:49:34	Technique	Infrared	Instrument	MB
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range	399.2356 - 4000.0706
Points Count	1868	Data Spacing	1.9287		

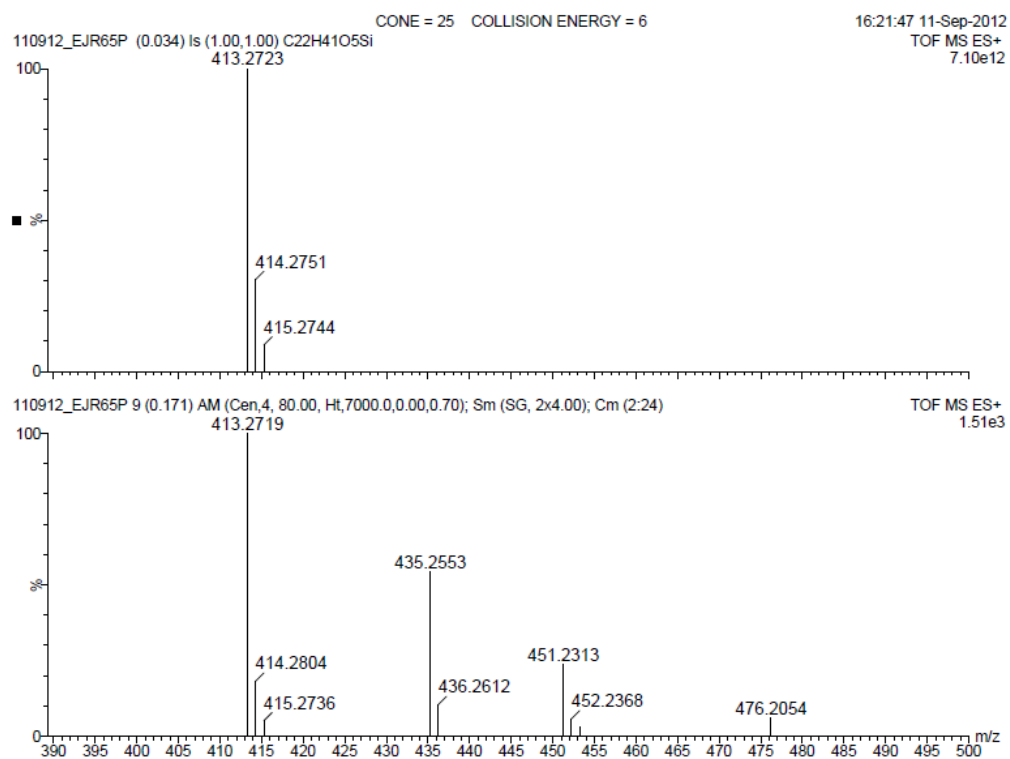
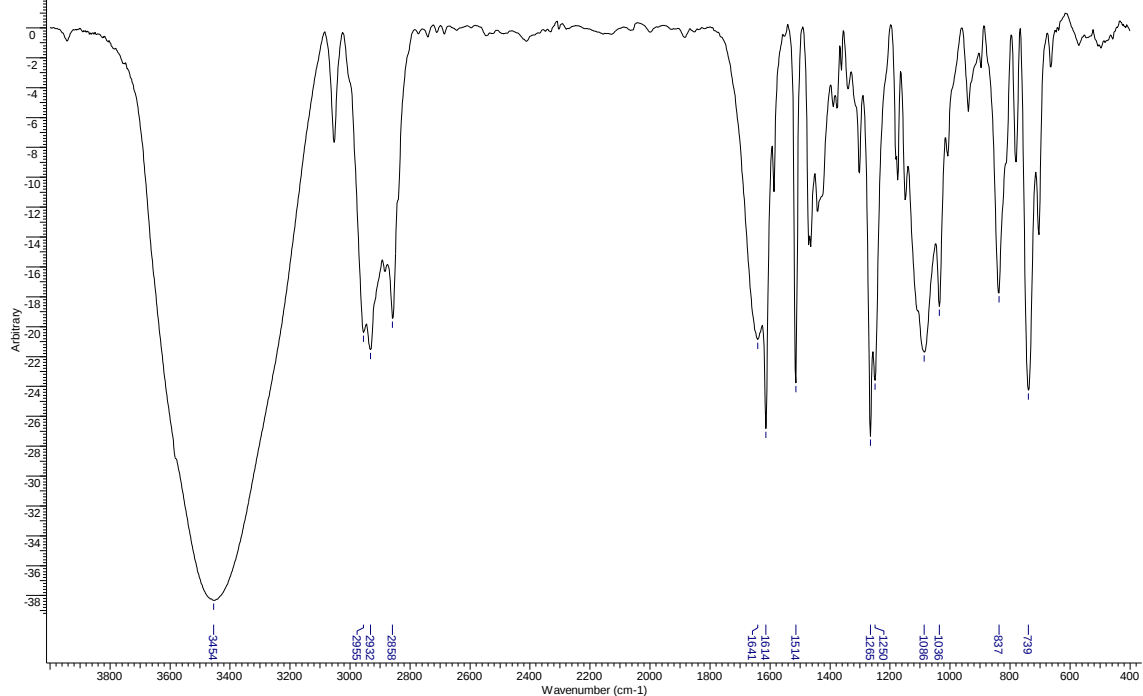


Figure S12: IR and HRMS (ESI TOF-MS) spectra of compound **29**.

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Nucleus	1H	Number of Transients	16	Original Points Count	16384
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Sweep Width (Hz)	5175.98
				Temperature (degree C)	25.160

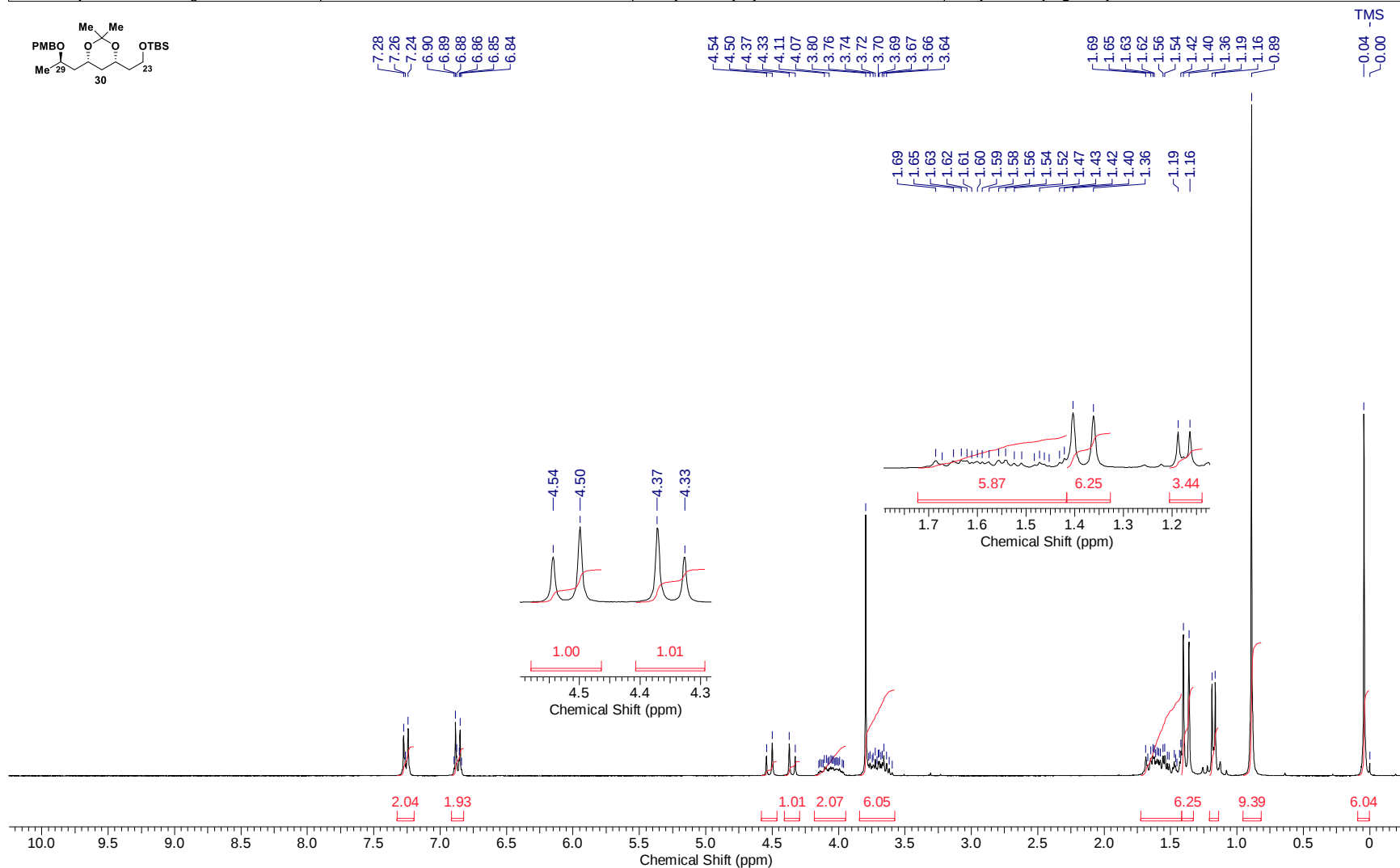


Figure S13: ^1H NMR spectrum of compound **30** (250 MHz; CDCl_3).

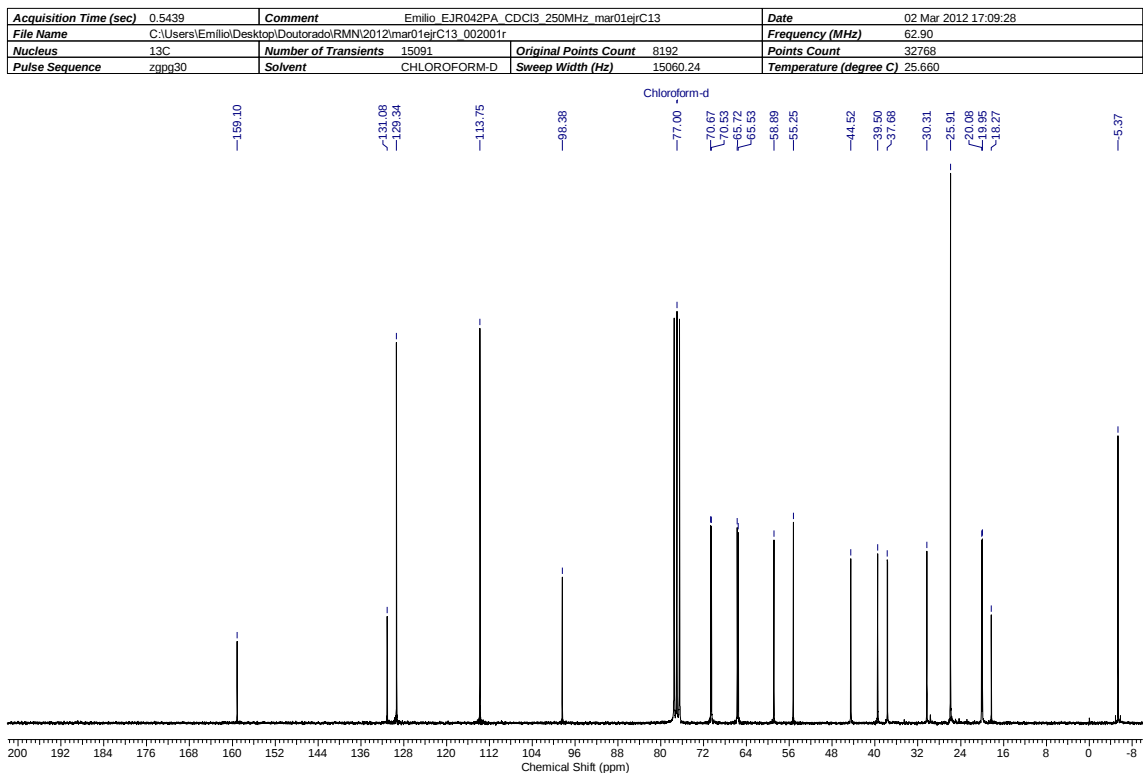


Figure S14: ¹³C NMR spectrum of compound **30** (62.5 MHz; CDCl₃).

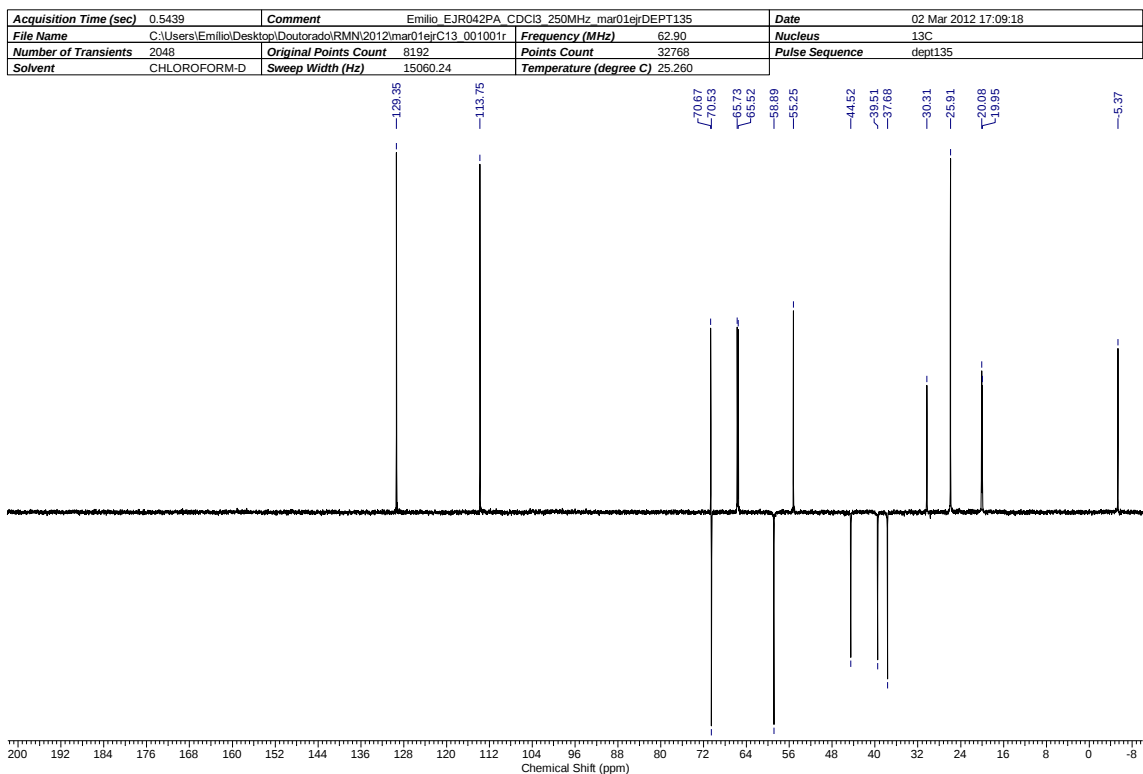


Figure S15: ¹³C NMR (dept 135) spectrum of compound **30** (62.5 MHz; CDCl₃).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\VEJR066P.SPC	Date Stamp	23/11/2012 07:07:00
Date	23 Nov 2012 07:08:28	Technique	Infrared	Instrument	MB
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Points Count	1868	Data Spacing	1.9287		

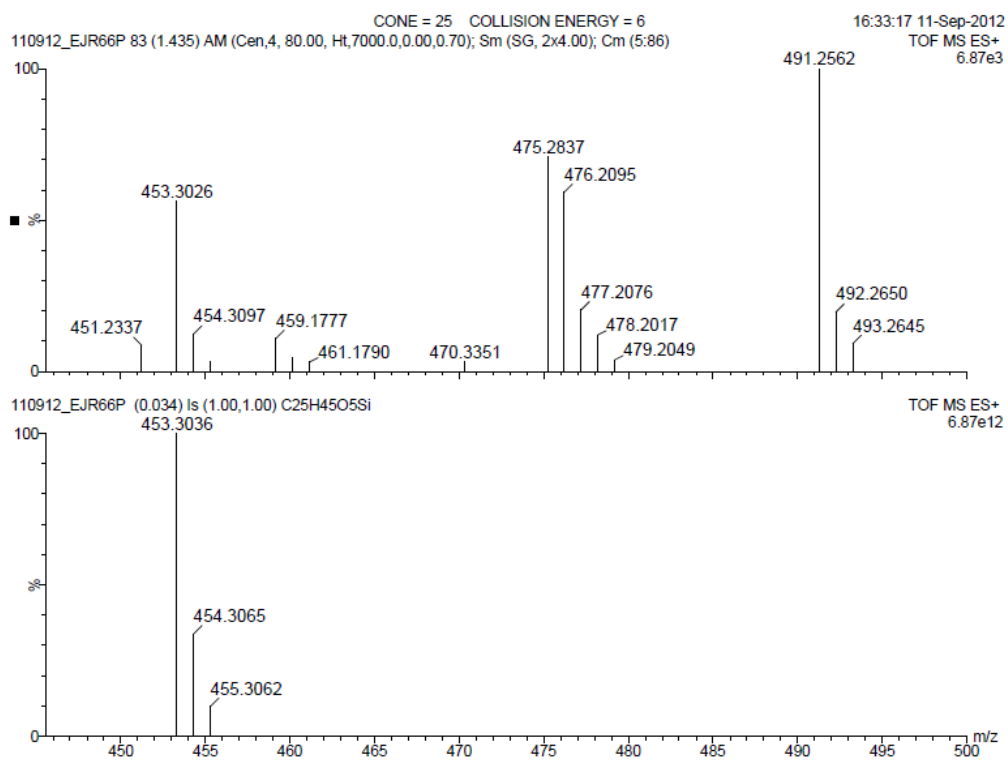
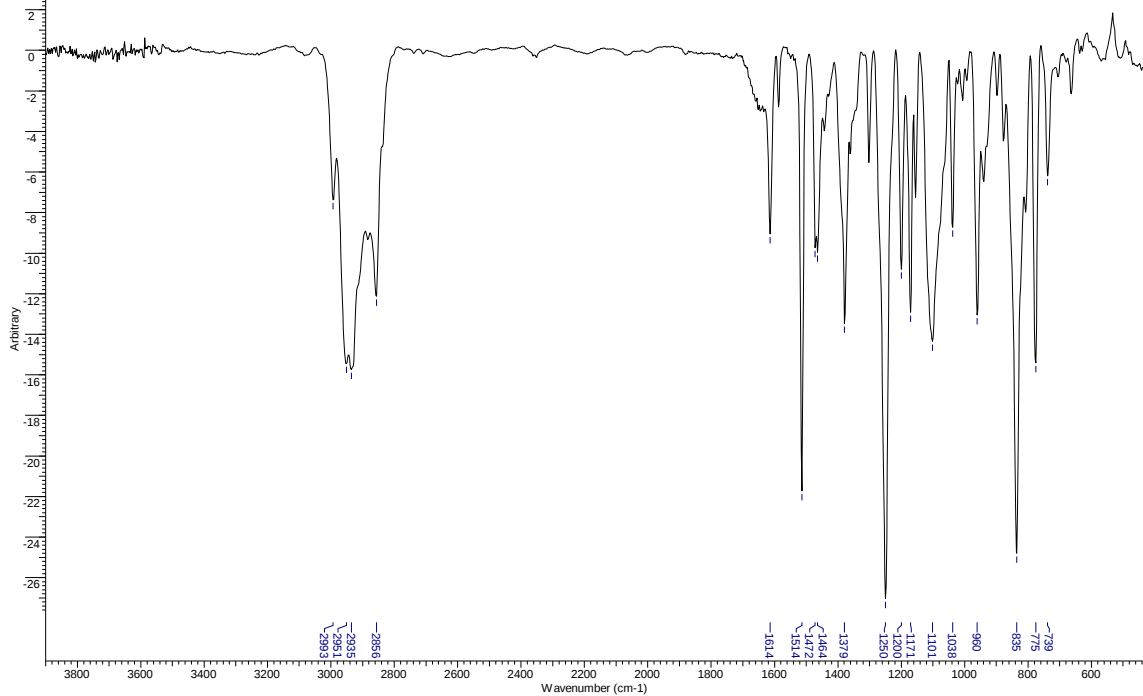


Figure S16: IR and HRMS (ESI TOF-MS) spectra of compound **30**.

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File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\ago17\ejrH1_001001r	Number of Transients	32	Original Points Count	32768
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Pulse Sequence	zg30	Sweep Width (Hz)	12335.53		
Temperature (degree C)	25.343				

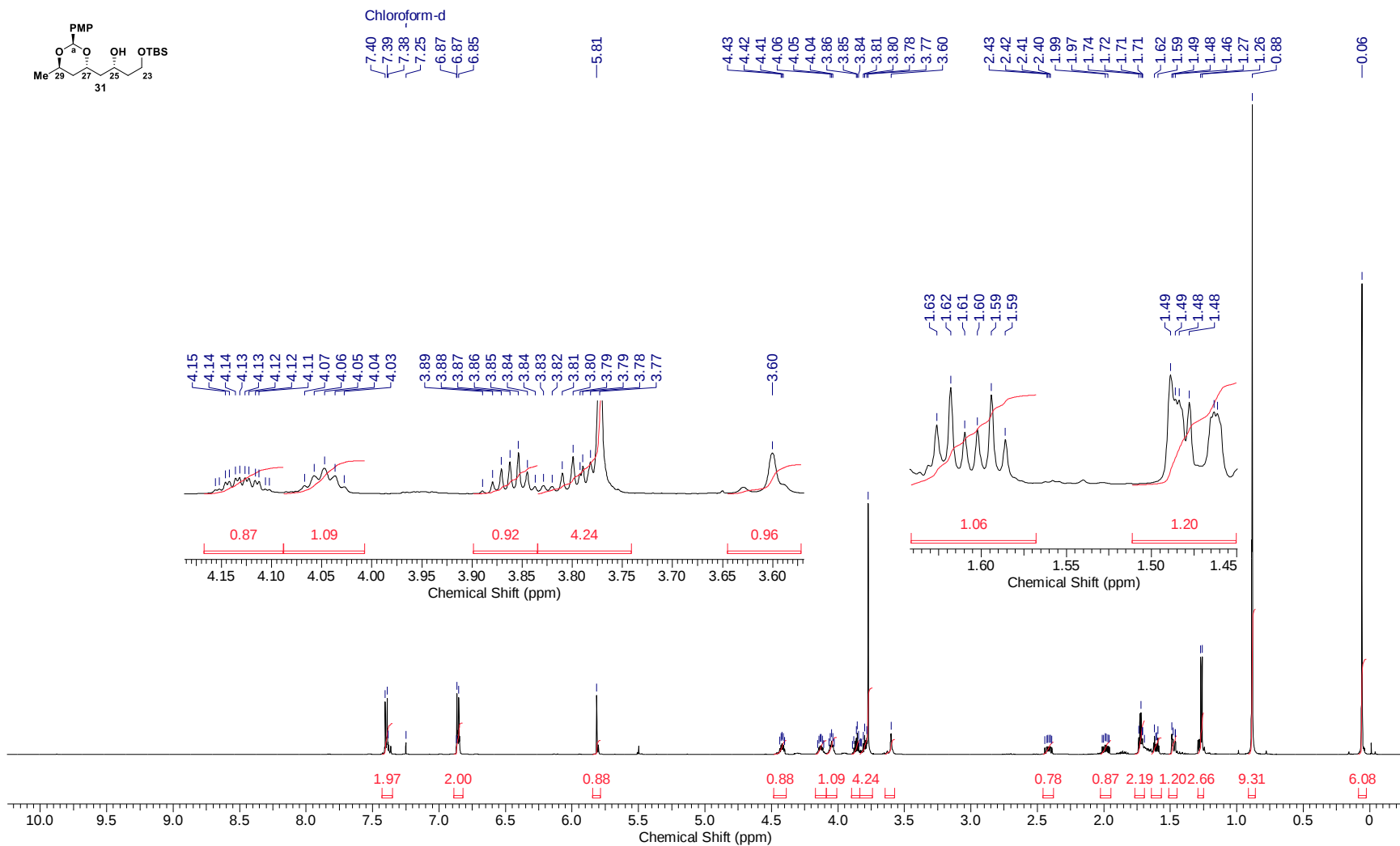


Figure S17: ¹H NMR spectrum of compound **31** (600 MHz; CDCl₃).

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File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\ago16\H1_002001r	Number of Transients	2048	Original Points Count	16384
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Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	23.000				

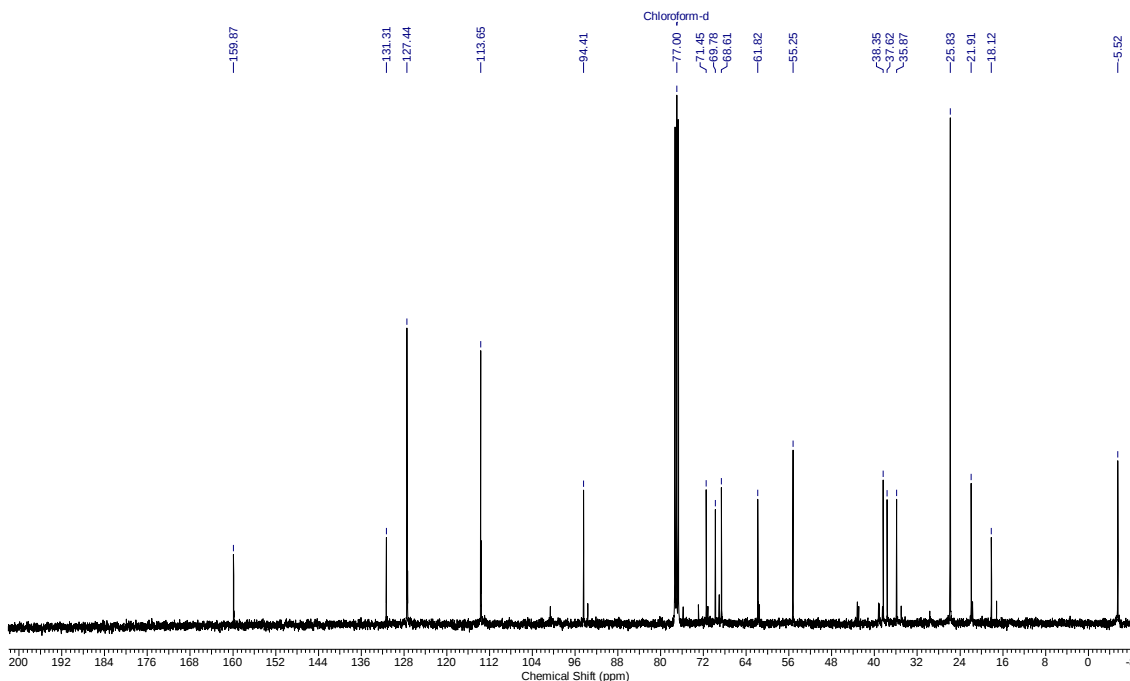


Figure S18: ¹³C NMR spectrum of compound **31** (100 MHz; CDCl₃).

Acquisition Time (sec)	0.6816	Date	16 Aug 2012 15:22:32	Frequency (MHz)	100.63
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Nucleus	¹³ C	Points Count	32768	Sweep Width (Hz)	24038.46
Pulse Sequence	dept135	Solvent	CHLOROFORM-D		
Temperature (degree C)	22.500				

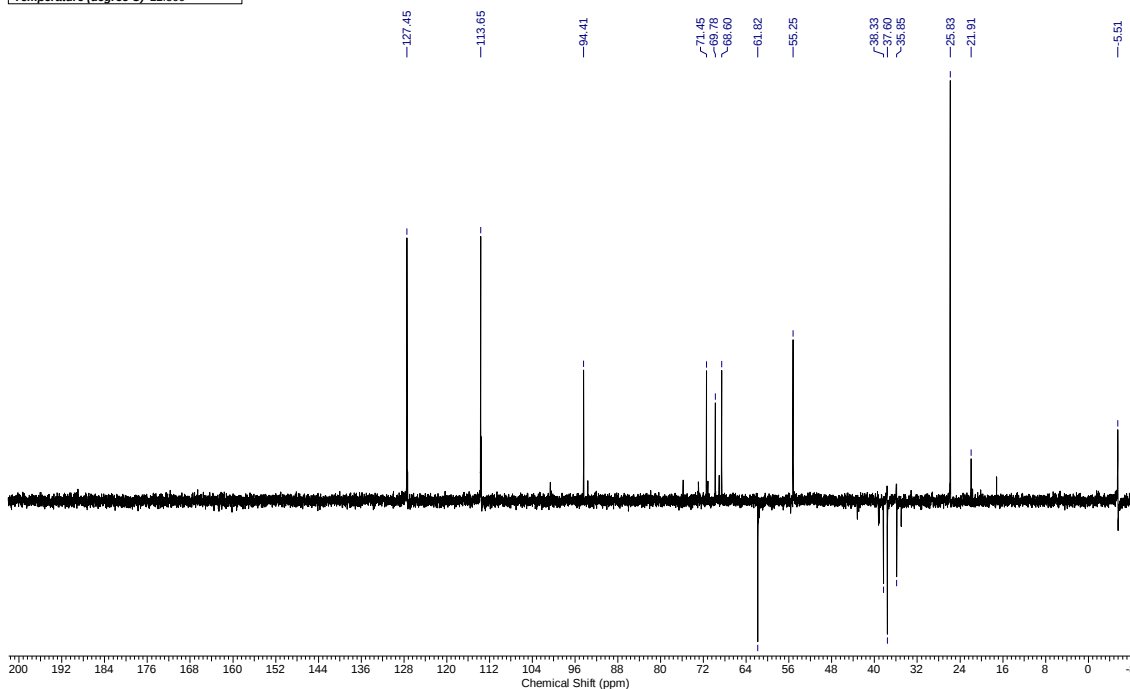


Figure S19: ¹³C NMR (dept 135) spectrum of compound **31** (100 MHz; CDCl₃).

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Date	23 Nov 2012 07:02:02	Technique	Infrared	Instrument	MB	Spectral Region	IR
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Points Count	1868	Data Spacing	1.9287				

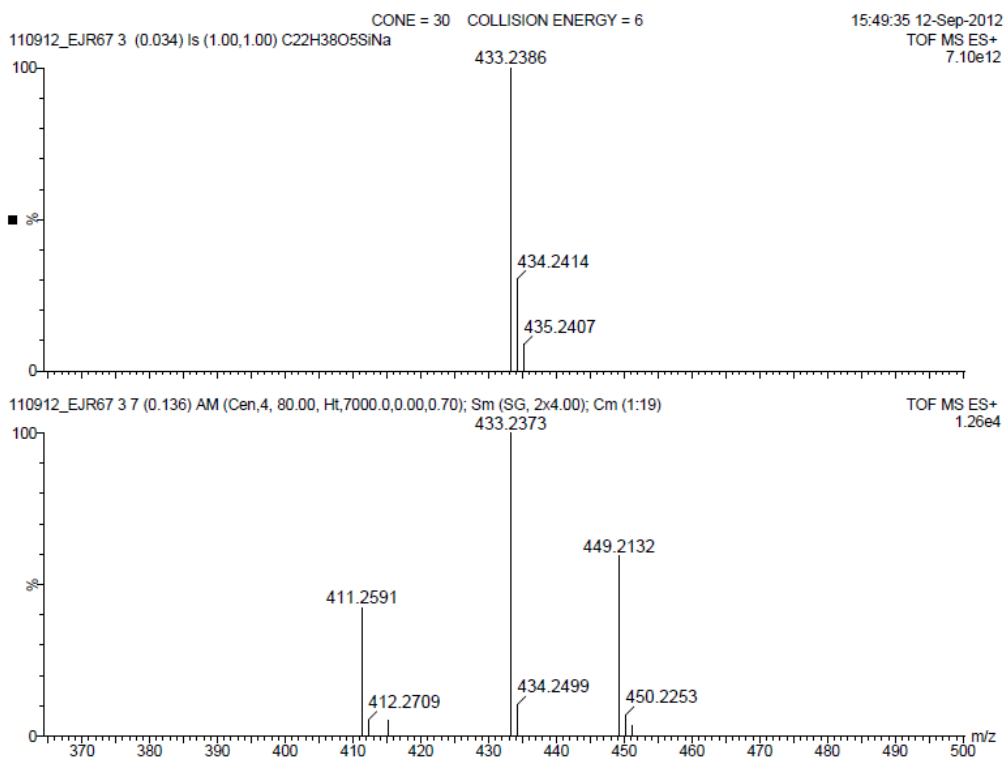
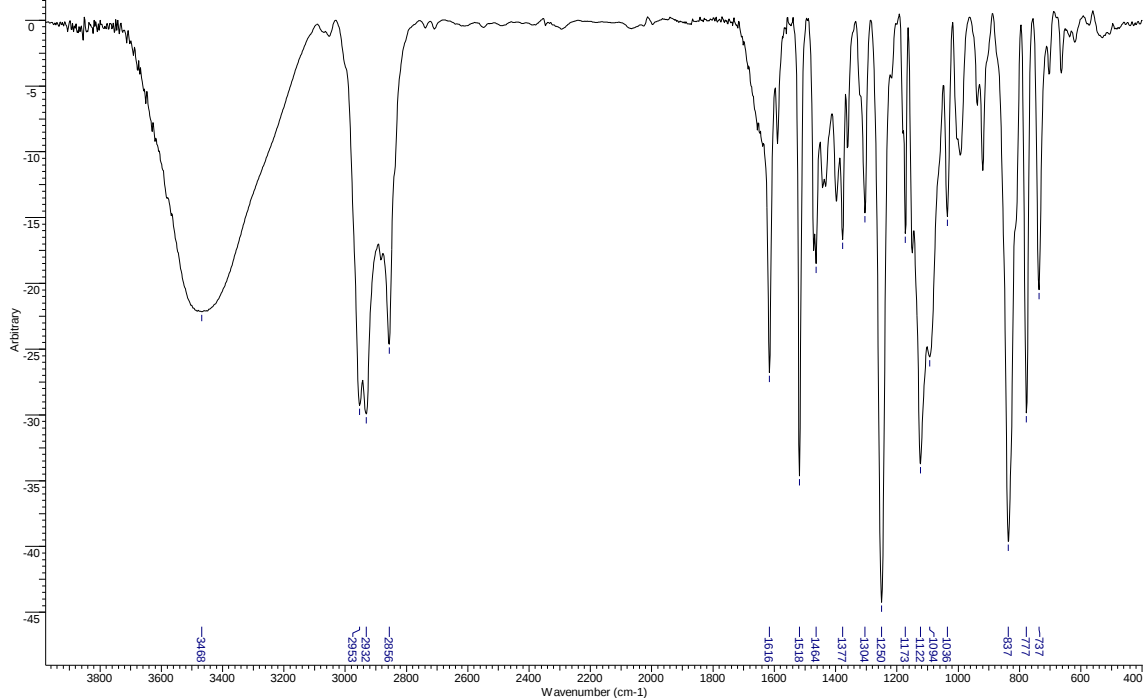


Figure S20: IR and HRMS (ESI TOF-MS) spectra of compound **31**.

Emilio EJ-067P cdcl3/Avance400 agol6ejrH1 - COSY

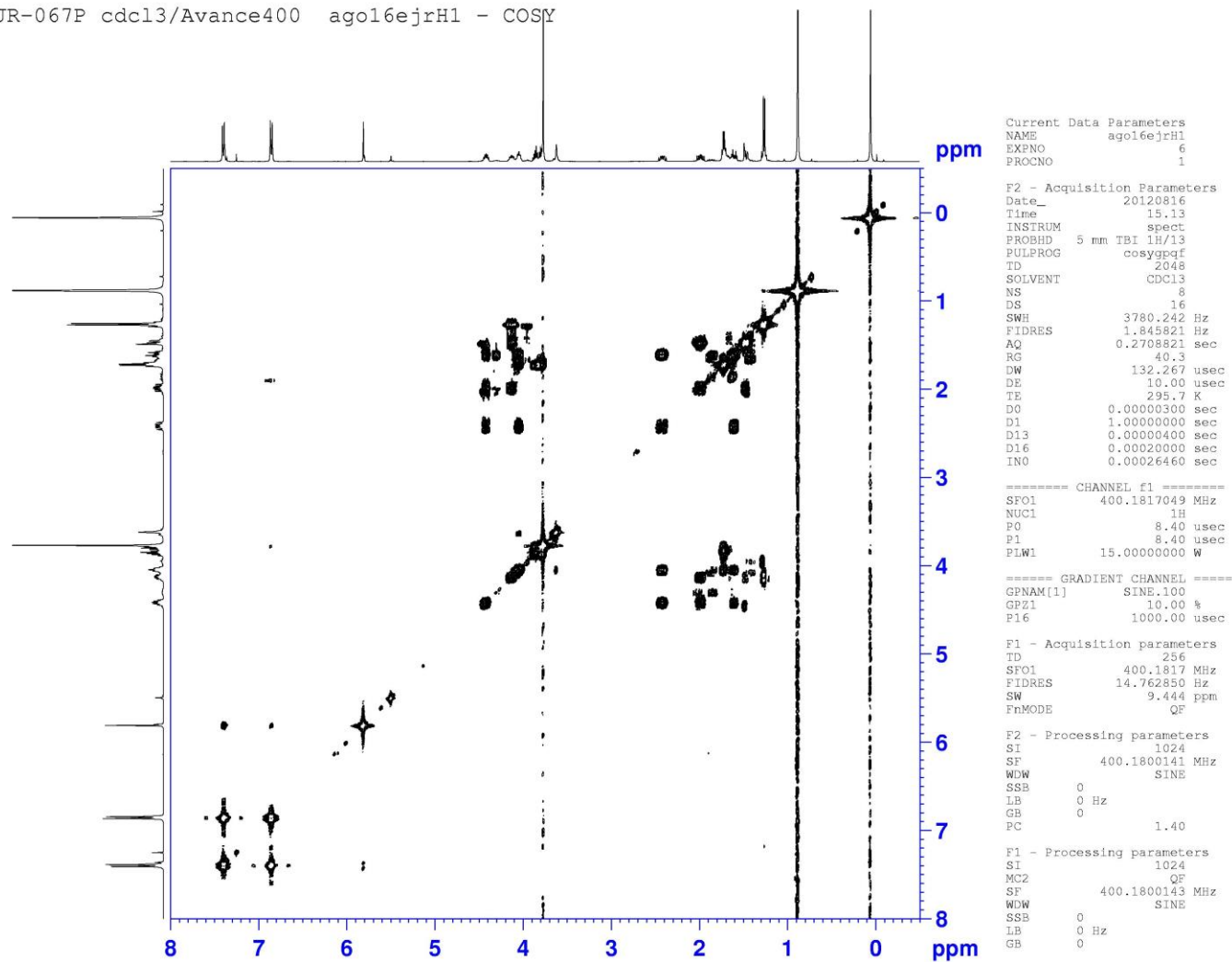


Figure S21: COSY contour map of compound **31** (400 MHz; CDCl₃).

Emilio EJ9-067P cdcl3/Avance400 agol6ejrH1 - HSQC

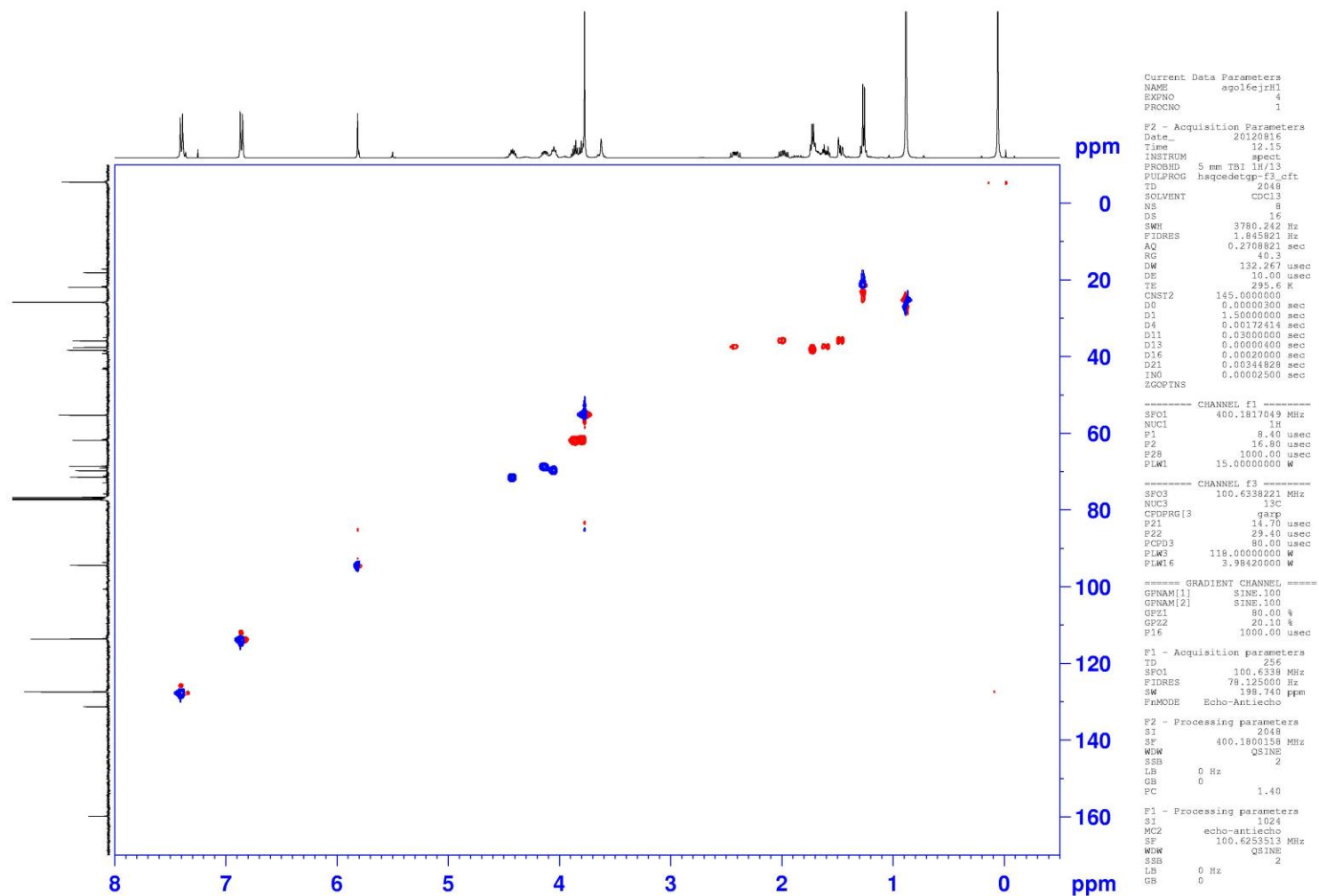


Figure S22: HSQC contour map of compound **31**.

Emilio EJ9-067P cdcl3/Avance400 agol6ejrH1 - HMBC

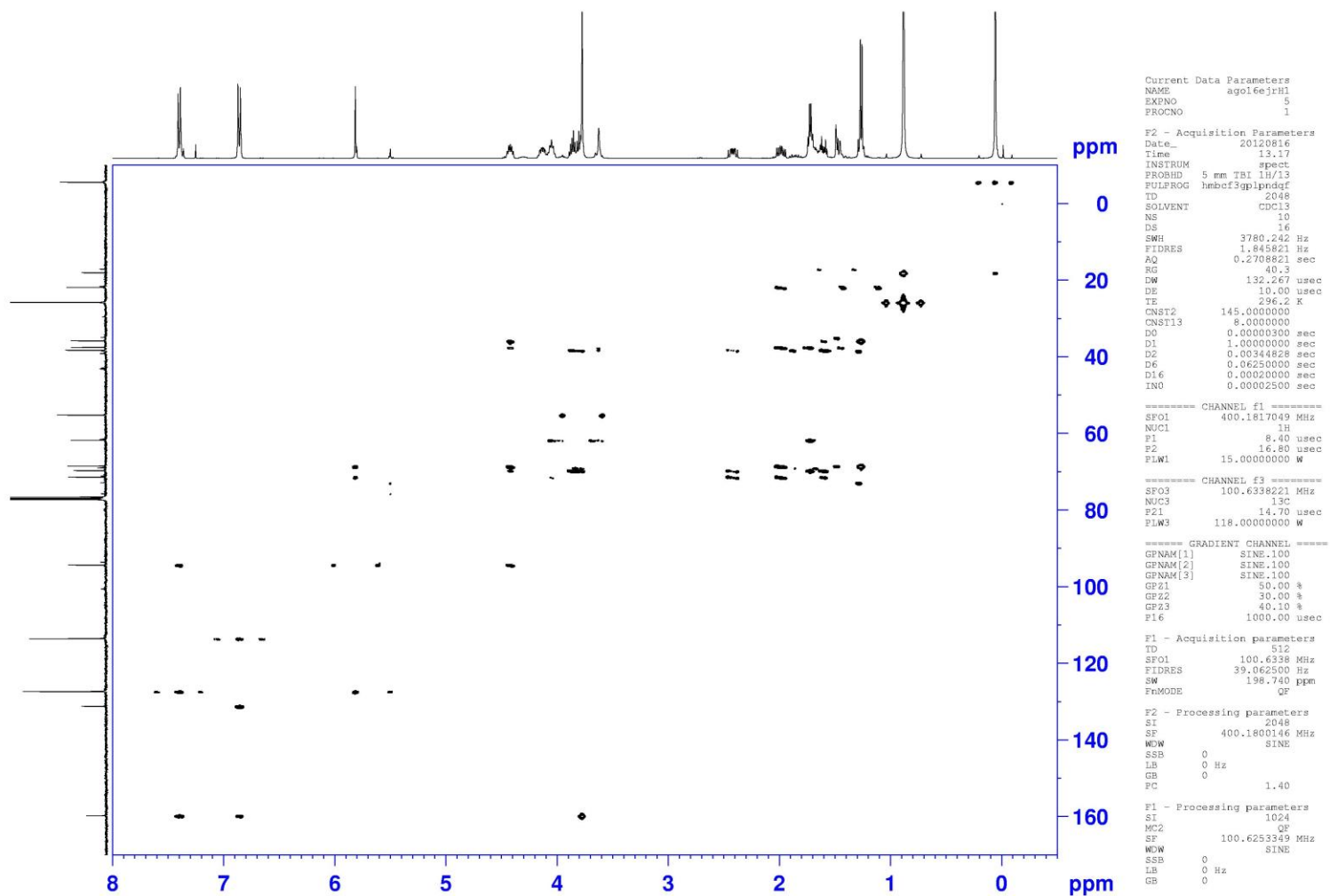
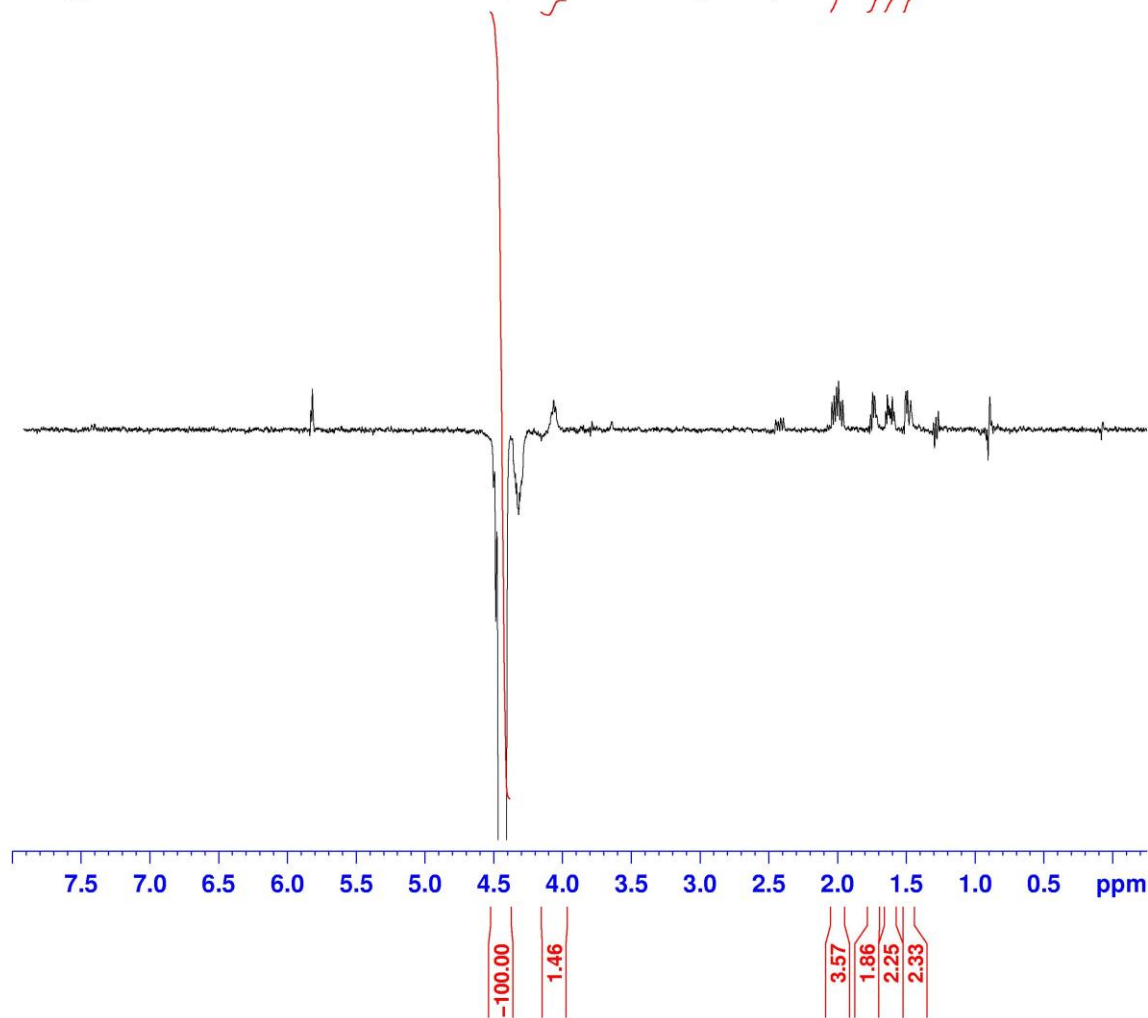


Figure S23: HMBC contour map of compound **31**.

NOE 4.44ppm Emilio "EJR-067P" cdcl3/Avance400 ago16ejrH2 / / /



```

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PROCNO    1

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FIDRES    0.102362 Hz
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RG         40.3
DW        149.067 usec
DE        10.00 usec
TE        295.7 K
D1        4.00000000 sec
D8        0.60000002 sec
D16       0.00020000 sec
D20       0.29879999 sec
TD0       1
ZGPGINS

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NUC1       1H
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P2        16.40 usec
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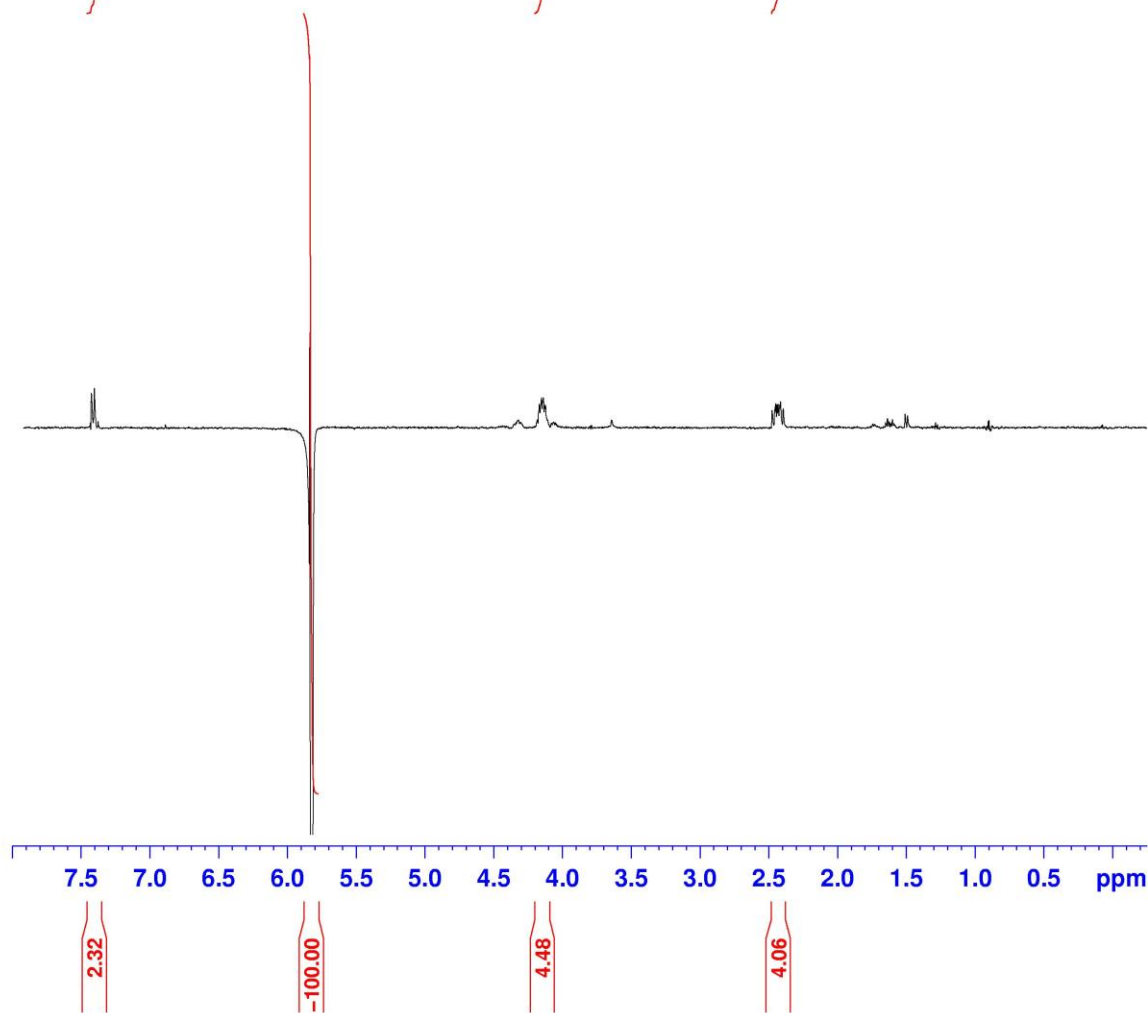
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GPZ2       40.00 %
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WDW        EM
SSB        0
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GB         0
PC         1.00

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Figure S24: ^1H NMR (1D selective NOE) spectrum of compound **31** (400 MHz; CDCl_3).

NOE 5.81ppm Emilio "EJR-067P" cdcl3/Ayance400 agol6ejrH2



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EXPNO     5
PROCNO    1

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PULPROG   selnoggp
TD        32768
SOLVENT   CDCl3
NS        1024
DS        4
SWH       3354.204 Hz
FIDRES    0.102362 Hz
AQ        4.8846164 sec
RG        40.3
DW        149.067 usec
DE        10.00 usec
TE        295.6 K
D1        4.00000000 sec
D8        0.60000002 sec
D16       0.00020000 sec
D20       0.29879999 sec
TD0       1
ZGPGTNS

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NUC1      1H
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P2        16.40 usec
P12       51000.00 usec
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PLW1      15.00000000 W
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SPW2      0.00000032 W

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GPZ2      40.00 %
P16       1000.00 usec

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WDW       EM
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LB        1.00 Hz
GB        0
PC        1.00
  
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Figure S25: ^1H NMR (1D selective NOE) spectrum of compound **31** (400 MHz; CDCl_3).

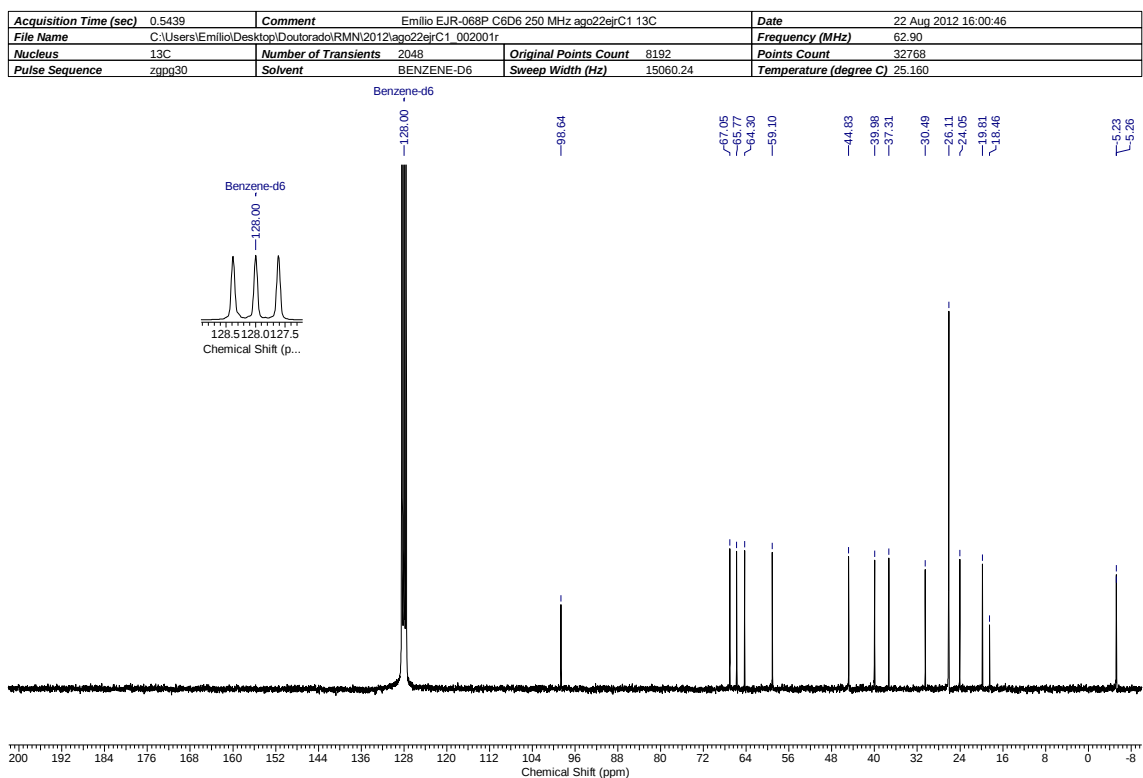


Figure S27: ^{13}C NMR spectrum of compound **32** (62.5 MHz; C_6D_6).

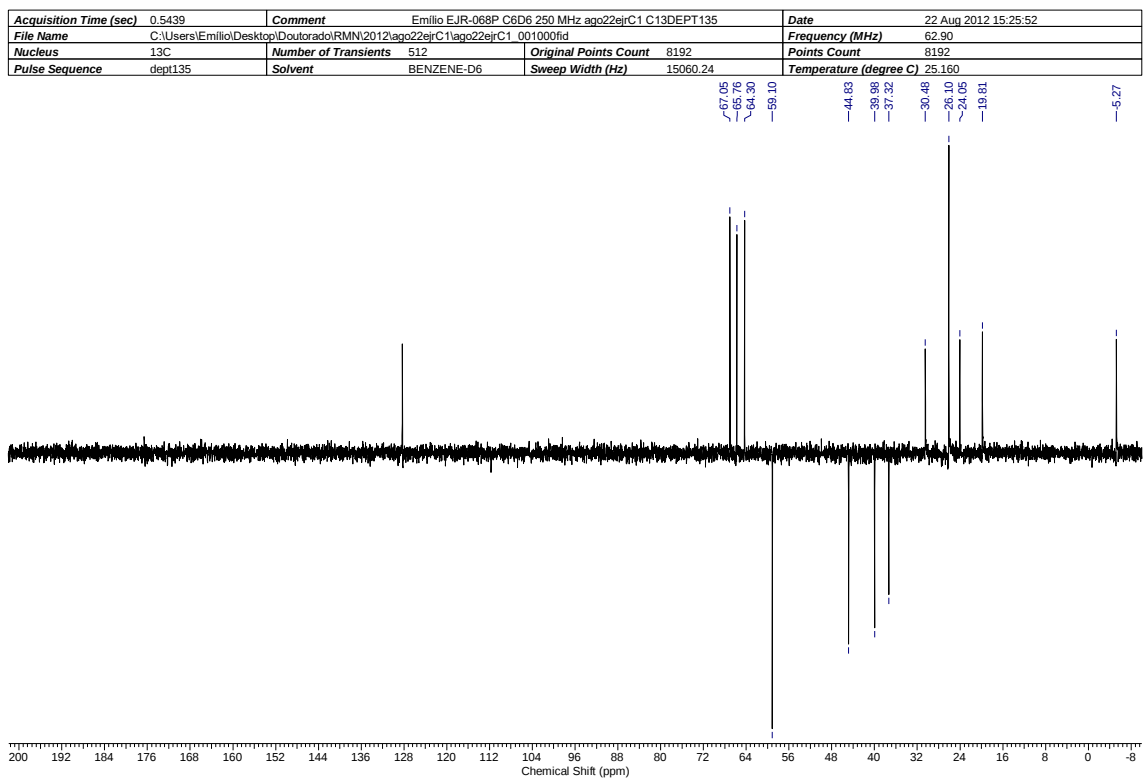


Figure S28: ^{13}C NMR (dept 135) spectrum of compound **32** (62.5 MHz; C_6D_6).

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Date	23 Nov 2012 07:22:42	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

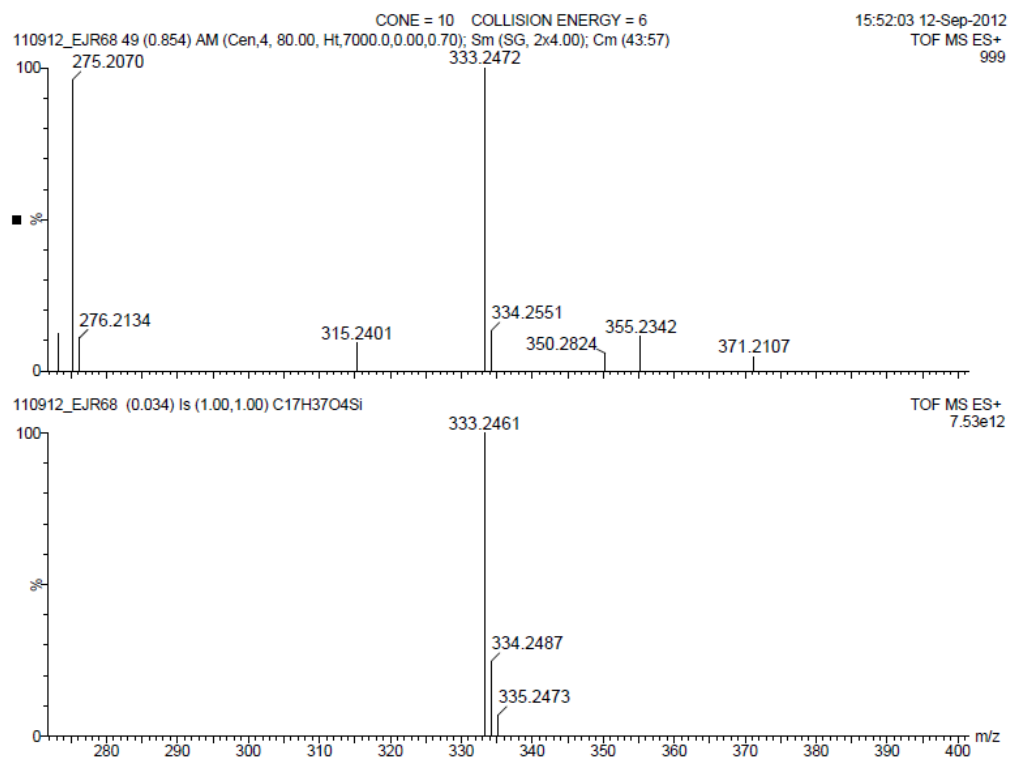
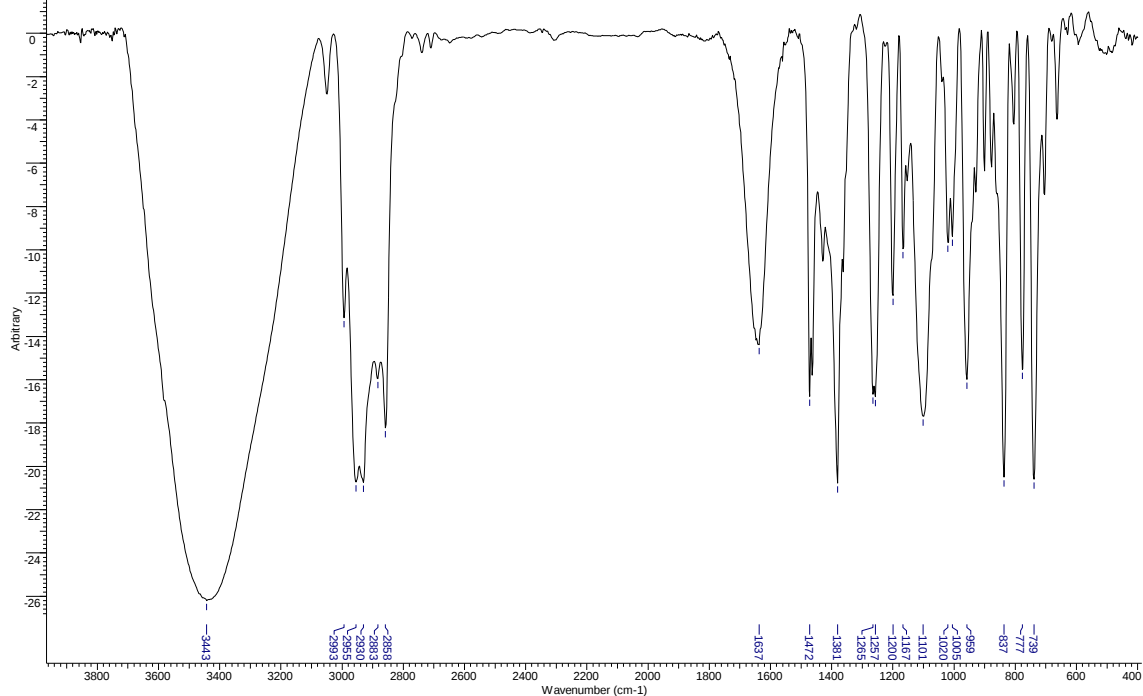


Figure S29: IR and HRMS (ESI TOF-MS) spectra of compound **32**.

Acquisition Time (sec)	3.1654	Comment	Emilio - EJR-028P - C6D6 - 250MHZ - set22ejrH1	Date	22 Sep 2011 19:21:40
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2011\set22ejrH1_001001r			Frequency (MHz)	250.13
Nucleus	¹ H	Number of Transients	32	Points Count	32768
Pulse Sequence	zg30	Solvent	BENZENE-D6	Sweep Width (Hz)	5175.98
				Temperature (degree C)	25.160

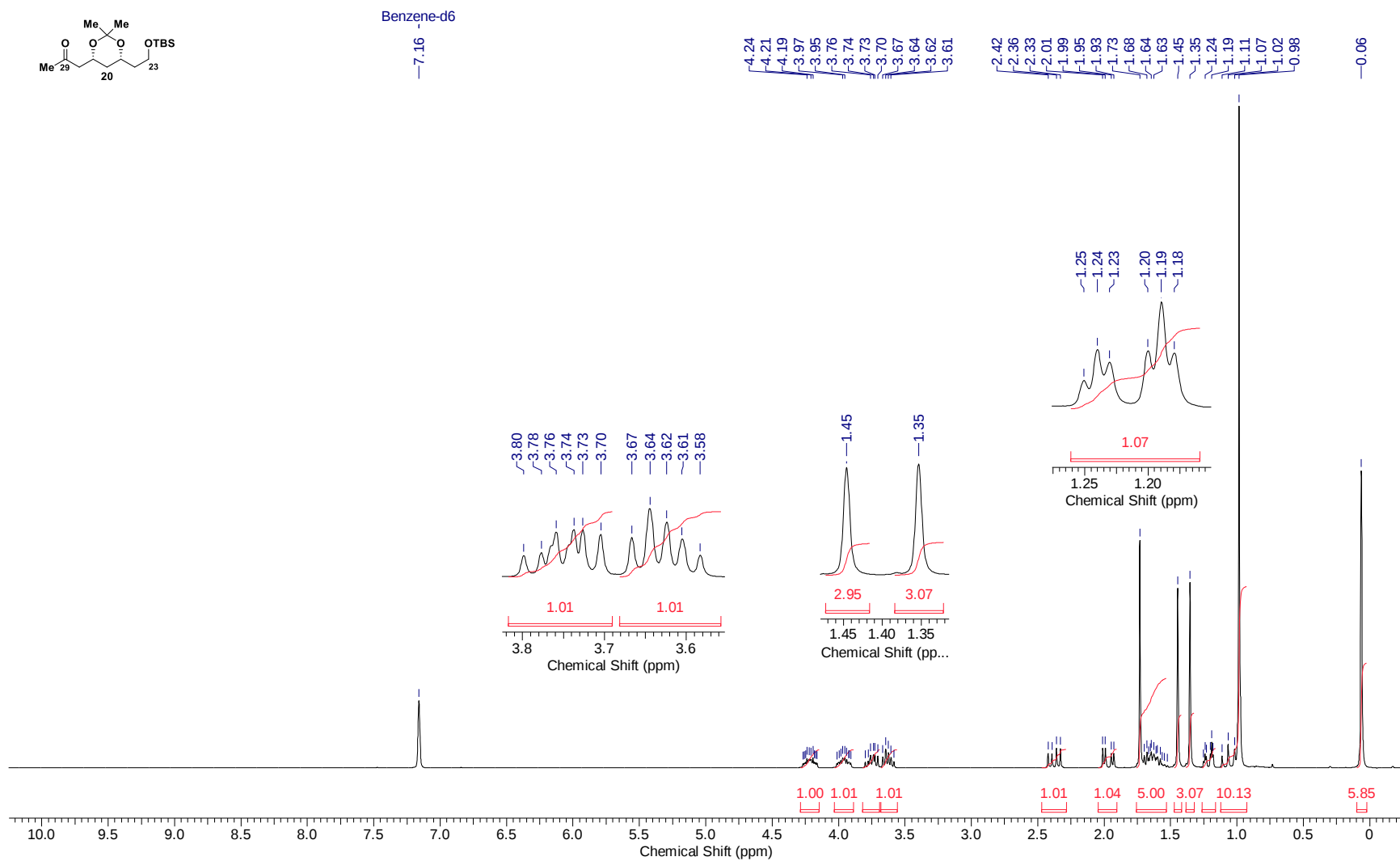


Figure S30: ¹H NMR spectrum of compound **20** (250 MHz; C₆D₆).

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File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2011\set22ejrC1_002001r	Frequency (MHz)	62.90	Nucleus	¹³ C
Number of Transients	15869	Original Points Count	8192	Points Count	32768
Solvent	BENZENE-D6	Sweep Width (Hz)	15060.24	Temperature (degree C)	25.160
				Pulse Sequence	zgpg30

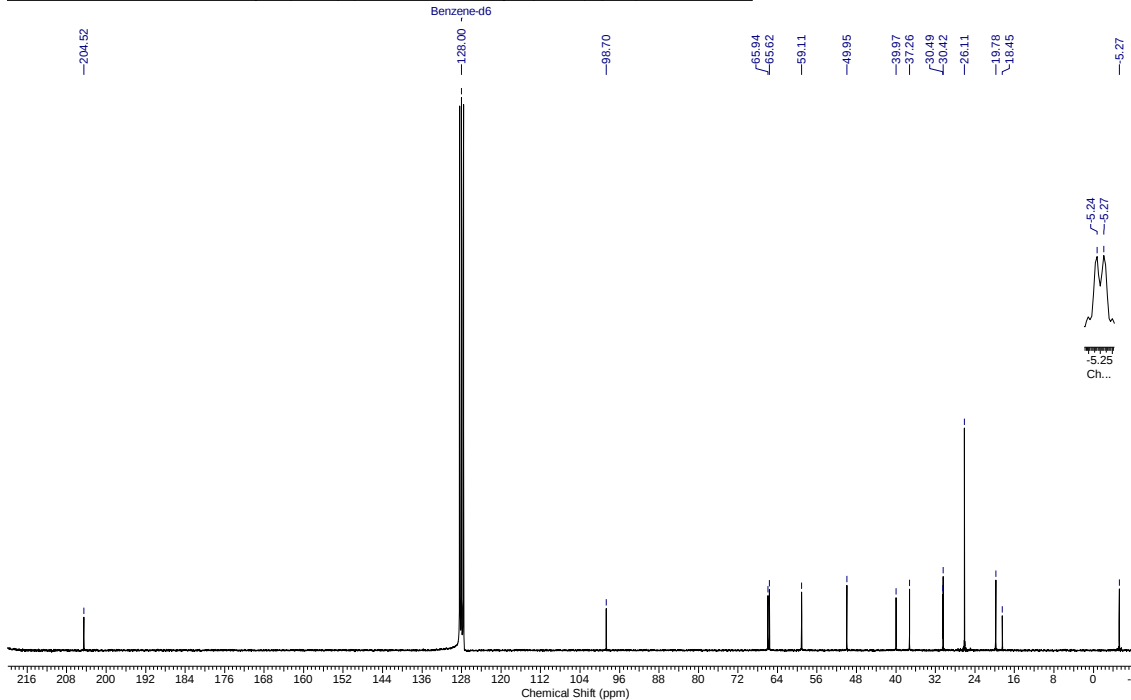


Figure S31: ¹³C NMR spectrum of compound **20** (62.5 MHz; C₆D₆).

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Number of Transients	2048	Original Points Count	8192	Points Count	32768
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				Pulse Sequence	dept135

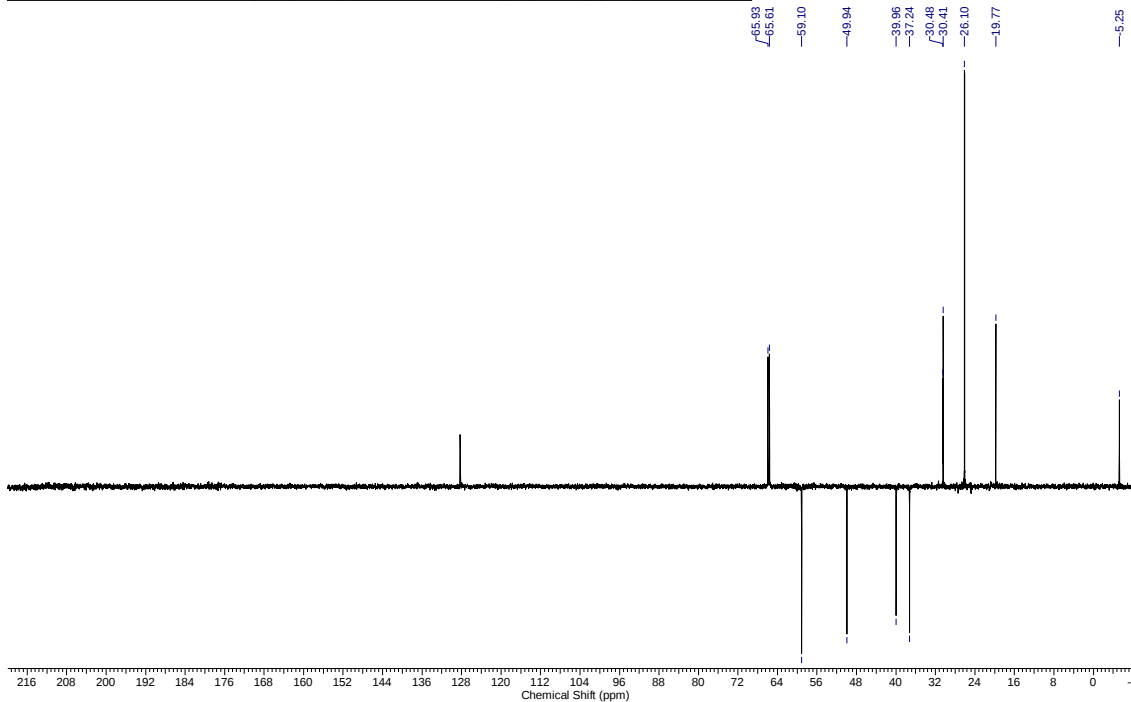


Figure S32: ¹³C NMR (dept 135) spectrum of compound **20** (62.5 MHz; C₆D₆).

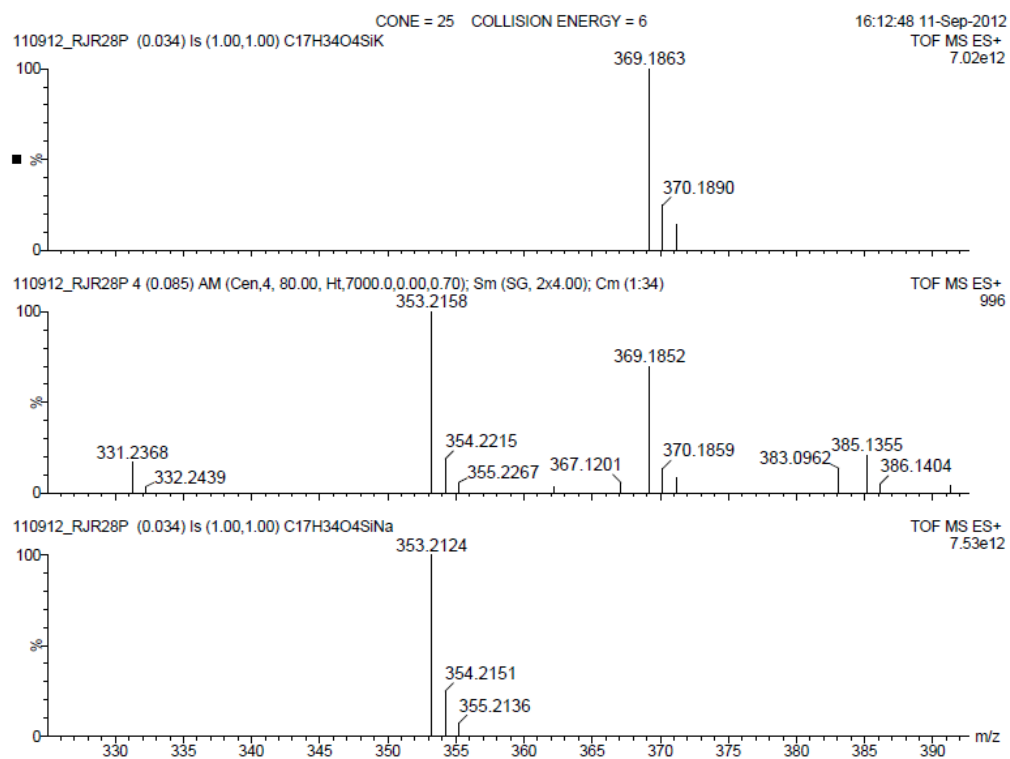
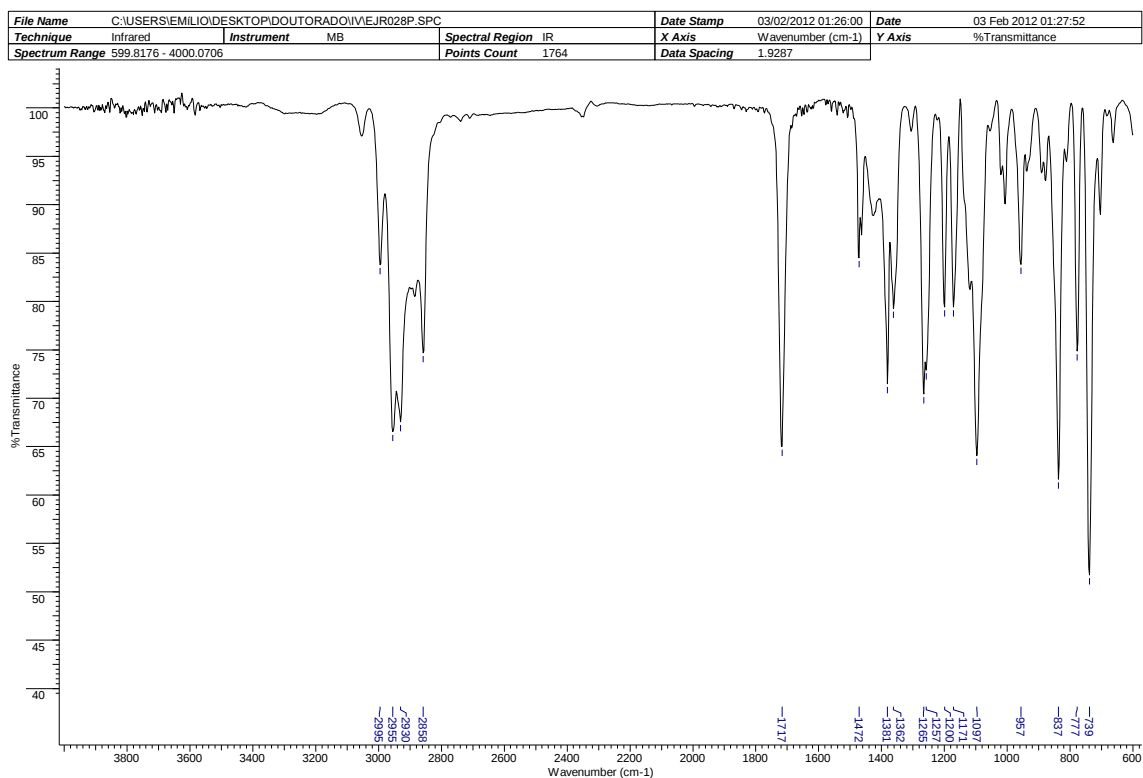


Figure S33: IR and HRMS (ESI TOF-MS) spectra of compound **20**.

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Nucleus	¹ H	Original Points Count	32768	Sweep Width (Hz)	12335.53
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Temperature (degree C)	25.343				

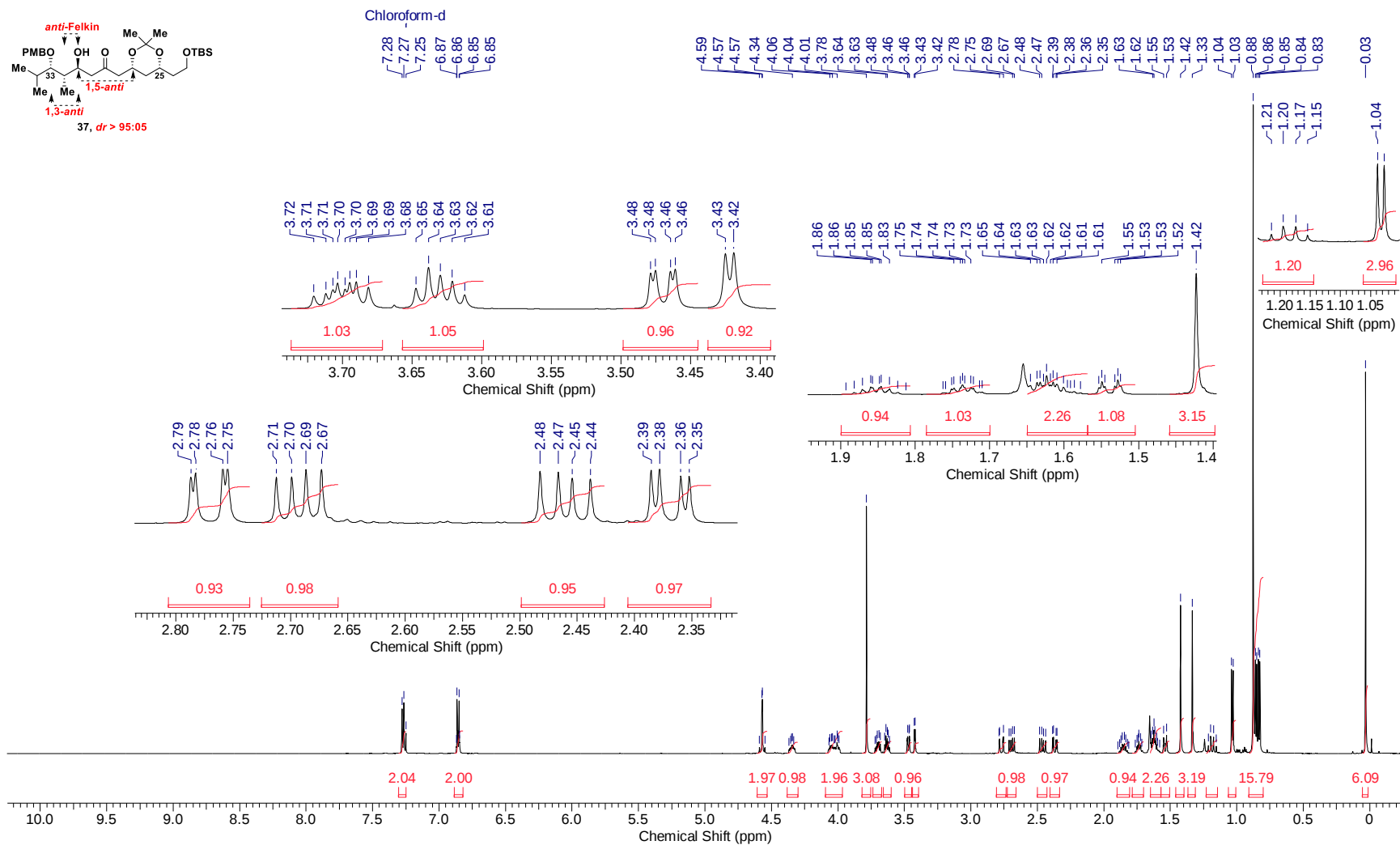


Figure S34: ¹H NMR spectrum of compound **37** (600 MHz; CDCl₃).

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Nucleus	13C	Points Count	32768	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.145				

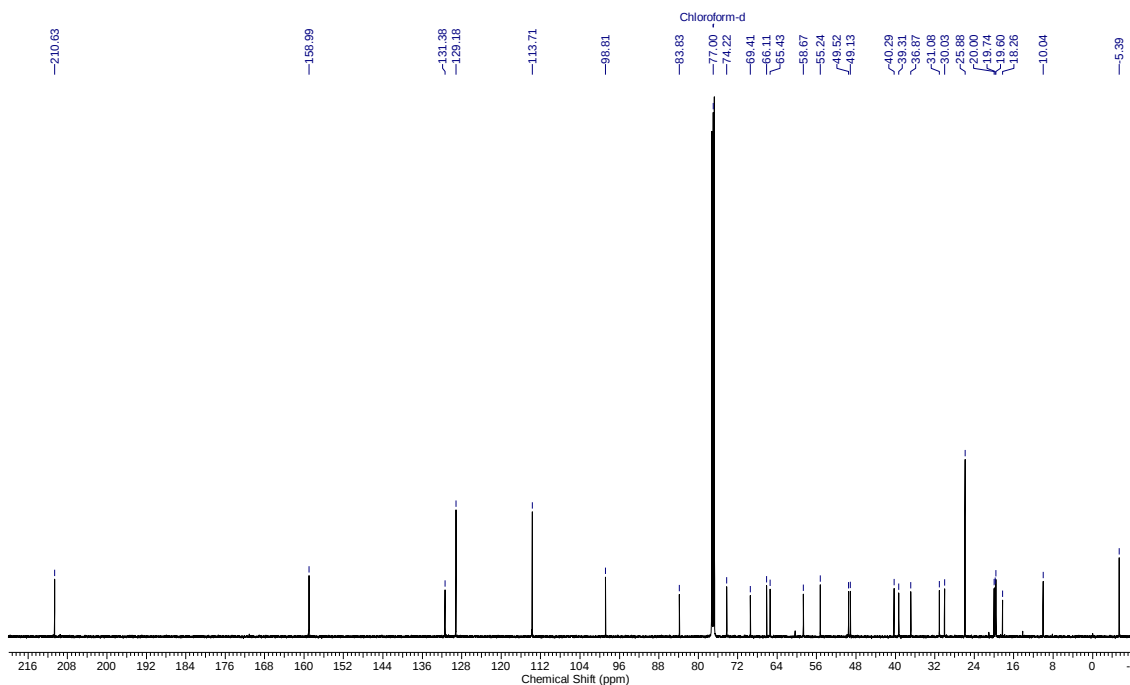


Figure S35: ^{13}C NMR spectrum of compound **37** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5308	Date	19 Sep 2012 01:20:38	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\set18\H1_005001r	Number of Transients	512	Original Points Count	16384
Nucleus	13C	Points Count	32768	Sweep Width (Hz)	30864.20
Pulse Sequence	dept135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.142				

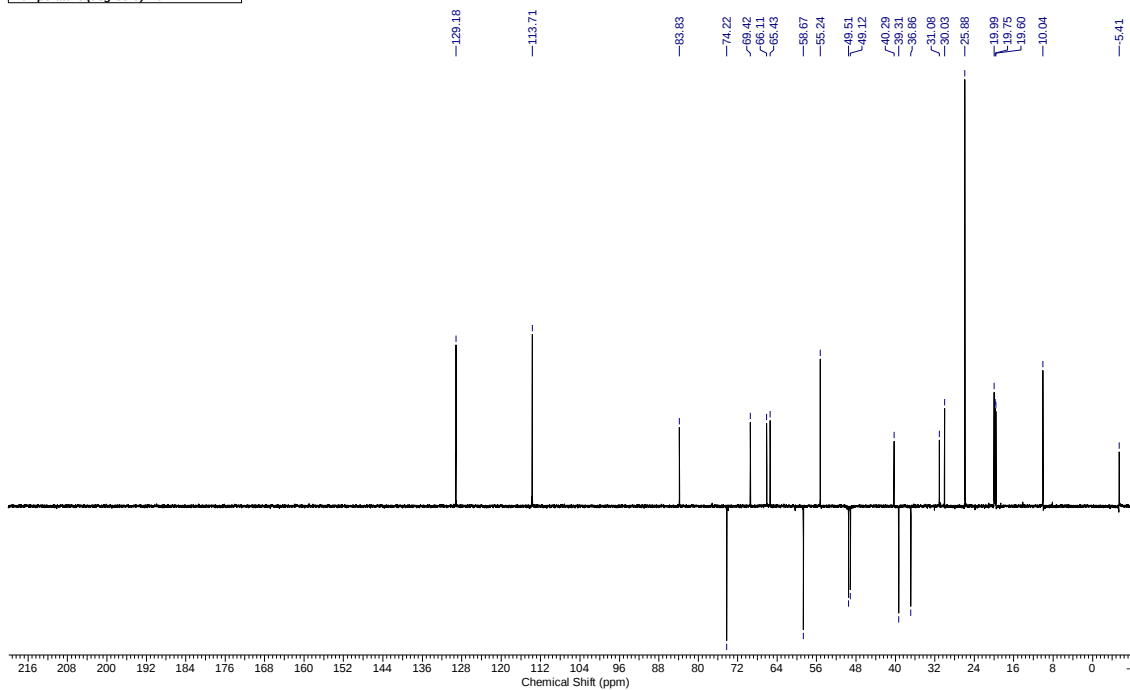


Figure S36: ^{13}C NMR (dept 135) spectrum of compound **37** (125 MHz; CDCl_3).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\VEJR071P.SPC			Date Stamp	23/11/2012 06:35:00
Date	23 Nov 2012 06:36:18	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

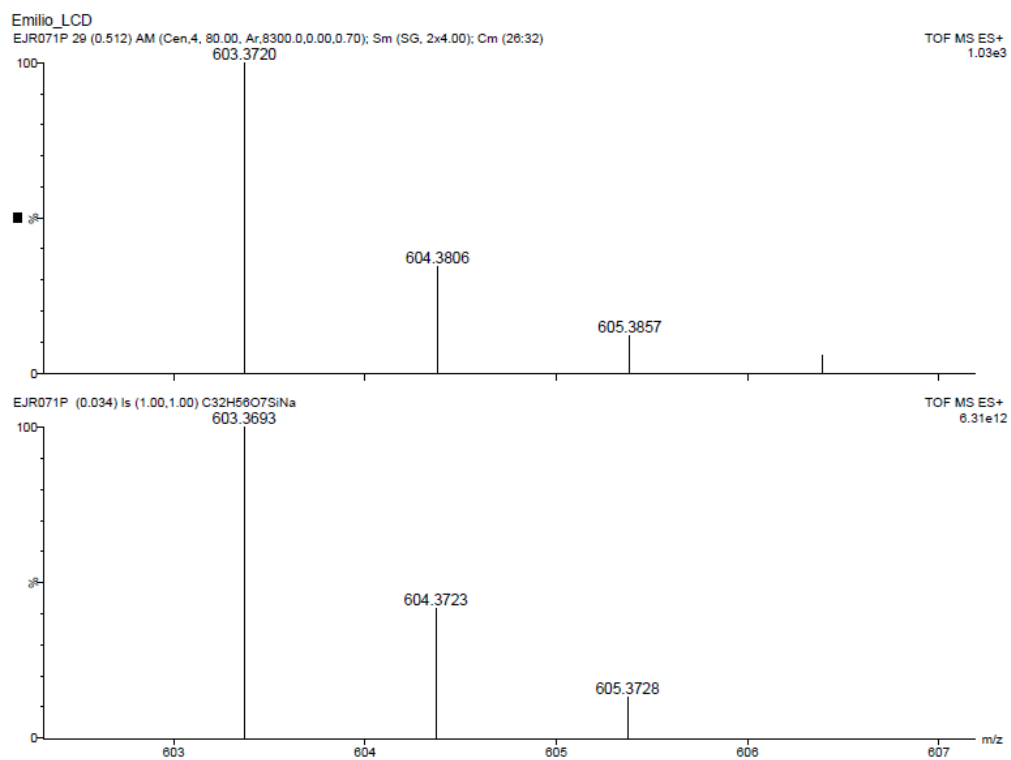
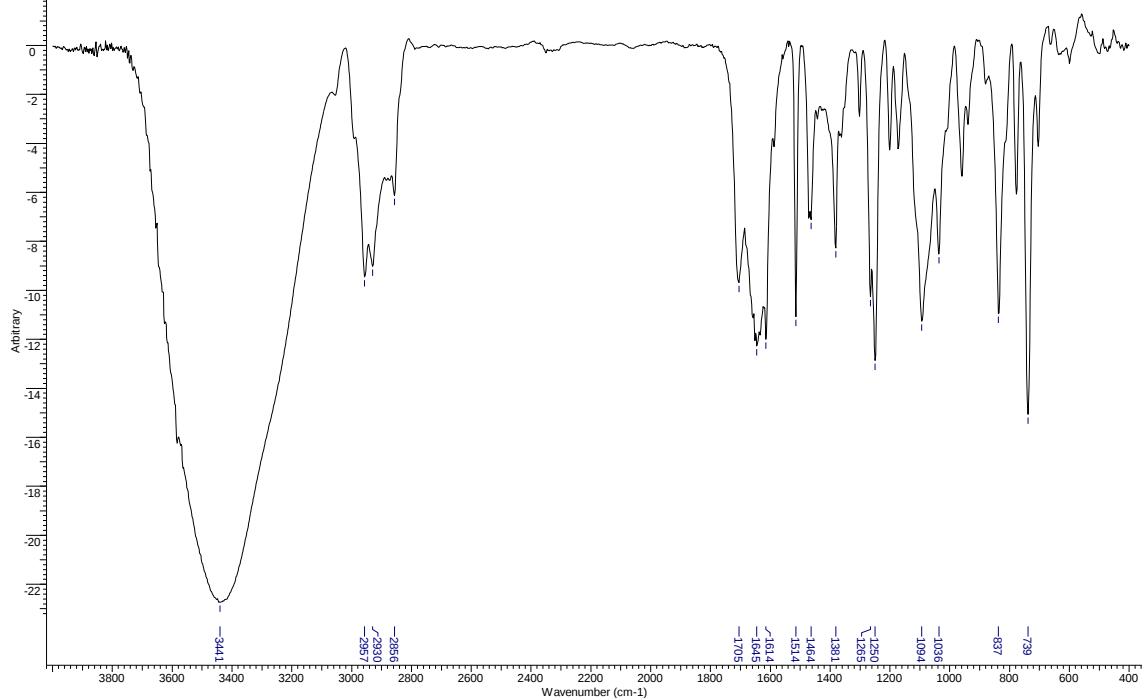


Figure S37: IR and HRMS (ESI TOF-MS) spectra of compound **37**.

Emilio - EJR-071P - CDCl₃ - Avance 500 MHz - set18ejrH1 - COSY

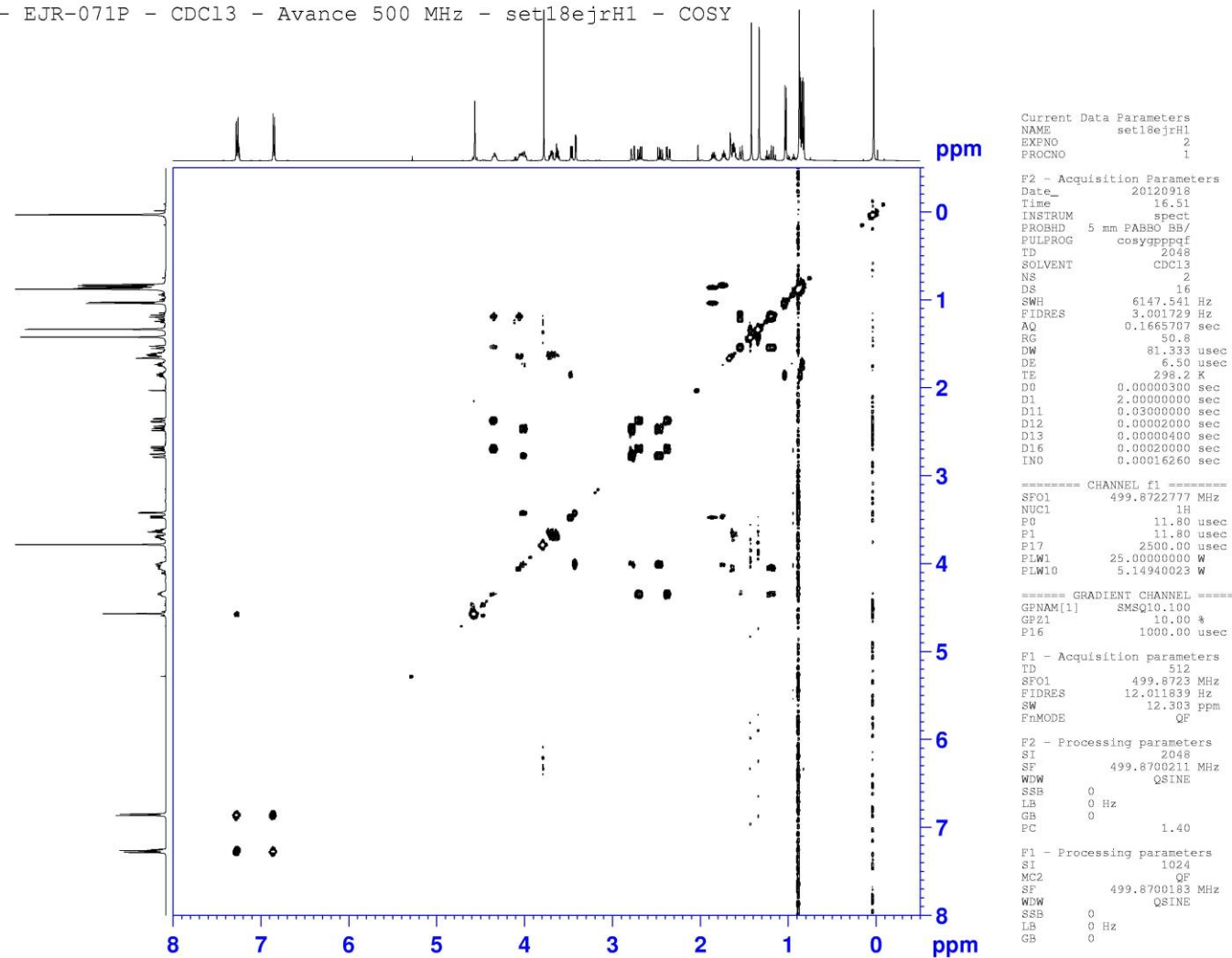


Figure S38: COSY contour map of compound **37** (500 MHz; CDCl₃).

Emilio - EJR-071P - CDCl₃ - Avance 500 MHz - set18ejrH1 - HSQC

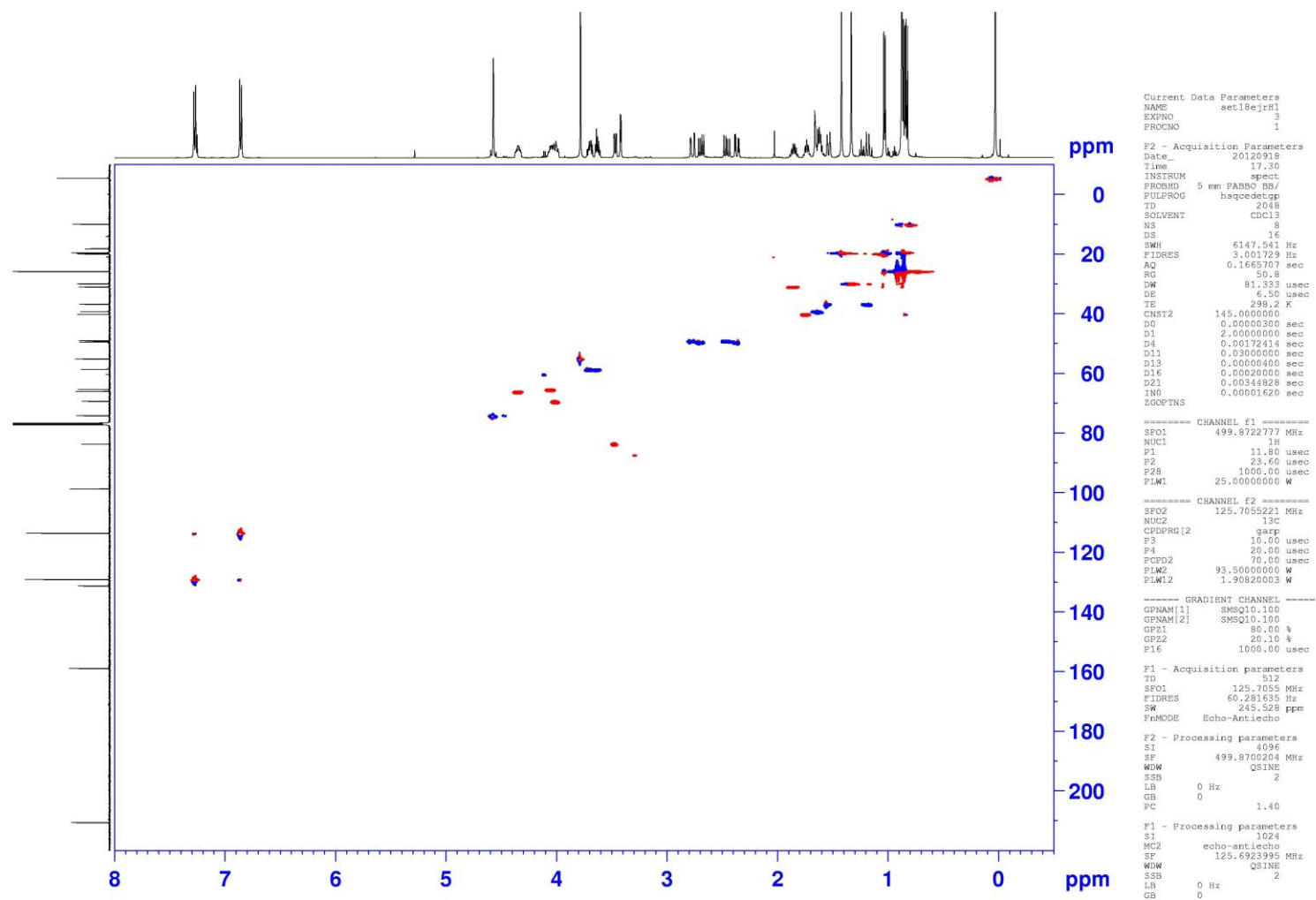


Figure S39: HSQC contour map of compound **37**.

Emilio - EJ9-071P - CDC13 - Avance 500 MHz - set18ejrH1 - HMBC

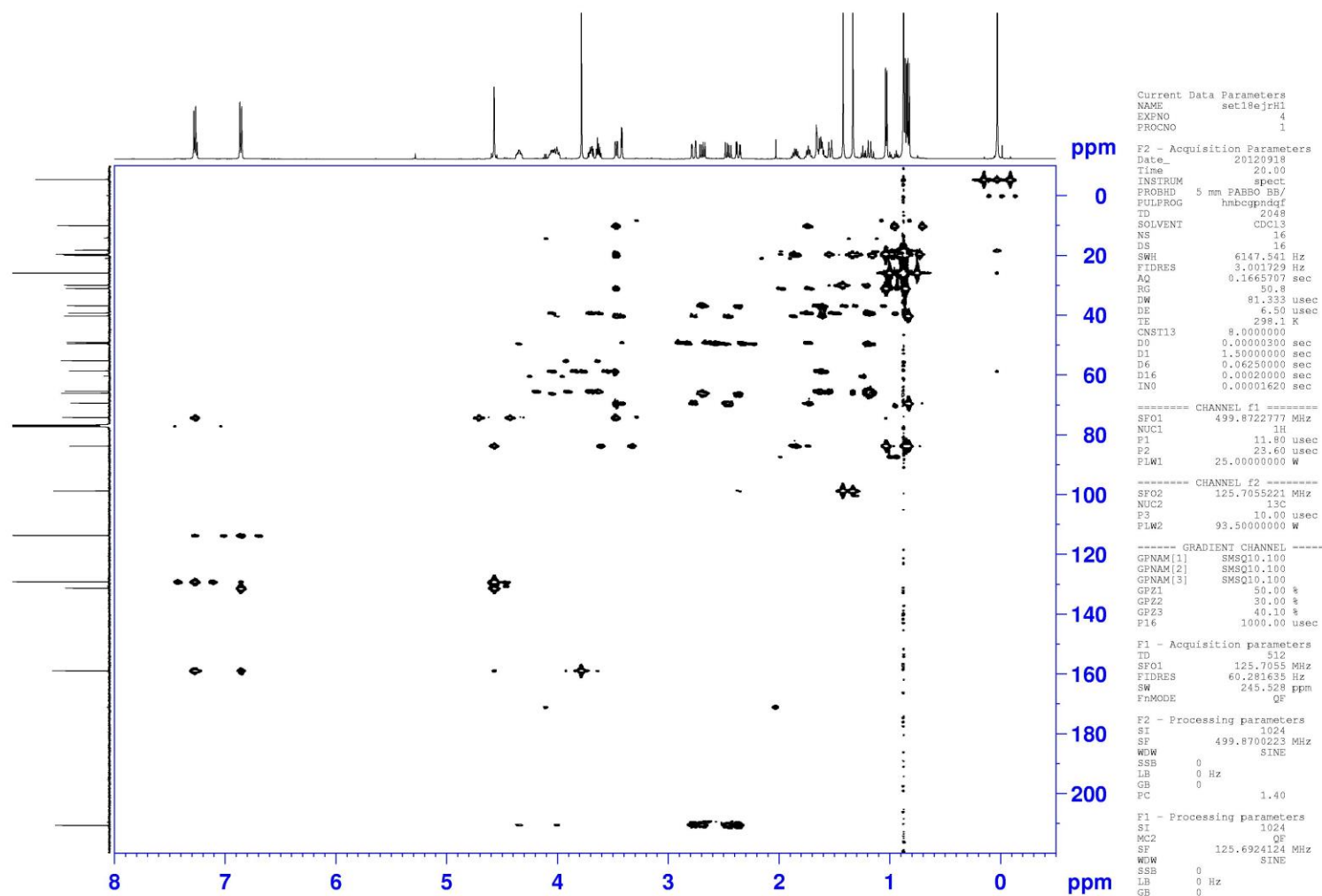


Figure S40: HMBC contour map of compound 37.

Acquisition Time (sec)	1.5903	Date	19 Sep 2012 15:49:56	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\set19\ejrH1_001001r	Number of Transients	16	Original Points Count	16384
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Temperature (degree C)	25.141	Sweep Width (Hz)	10302.20

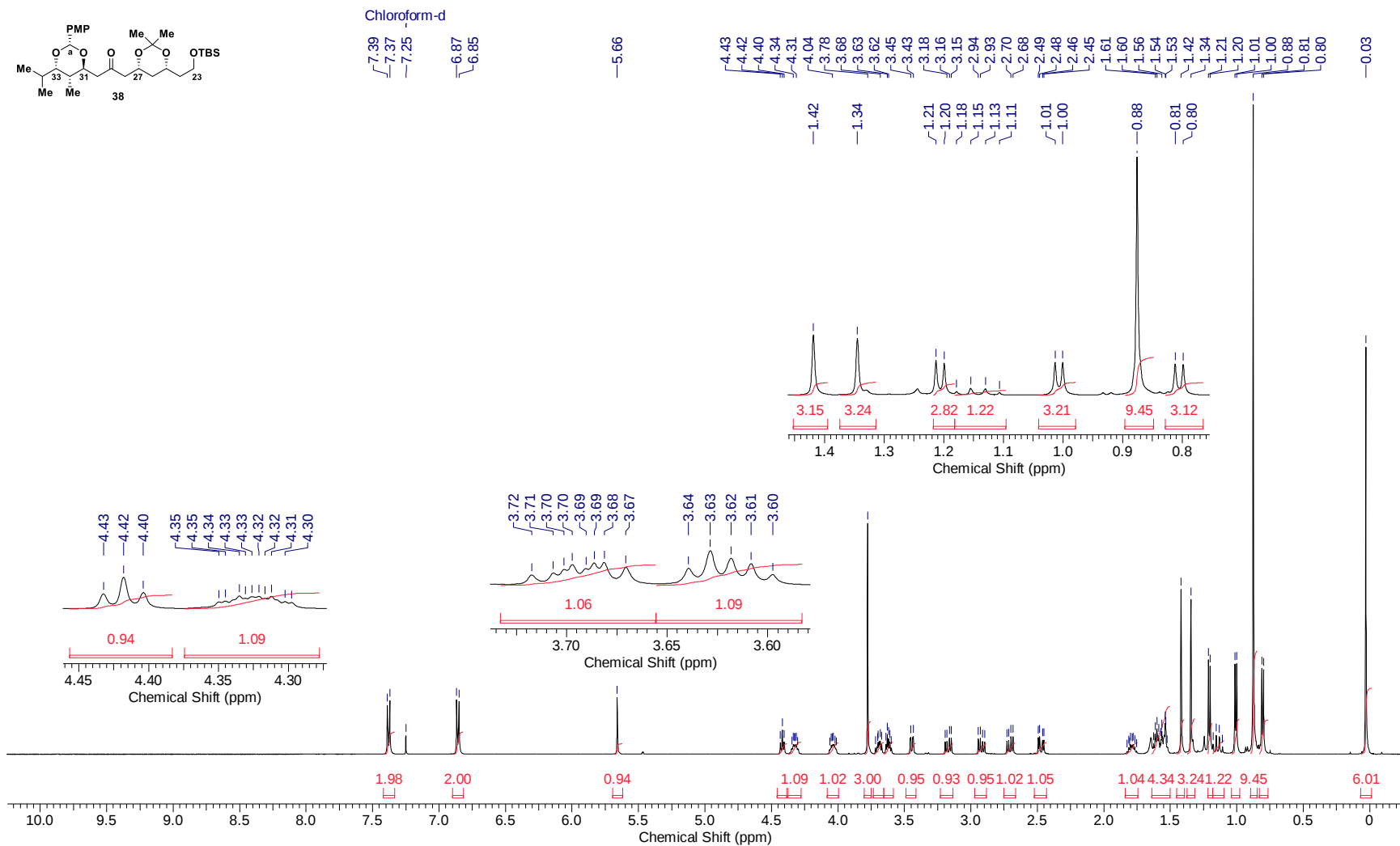


Figure S41: ¹H NMR spectrum of compound **38** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.4981	Date	19 Sep 2012 16:16:12	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\set19\etH1_002001r	Number of Transients	512	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.142				

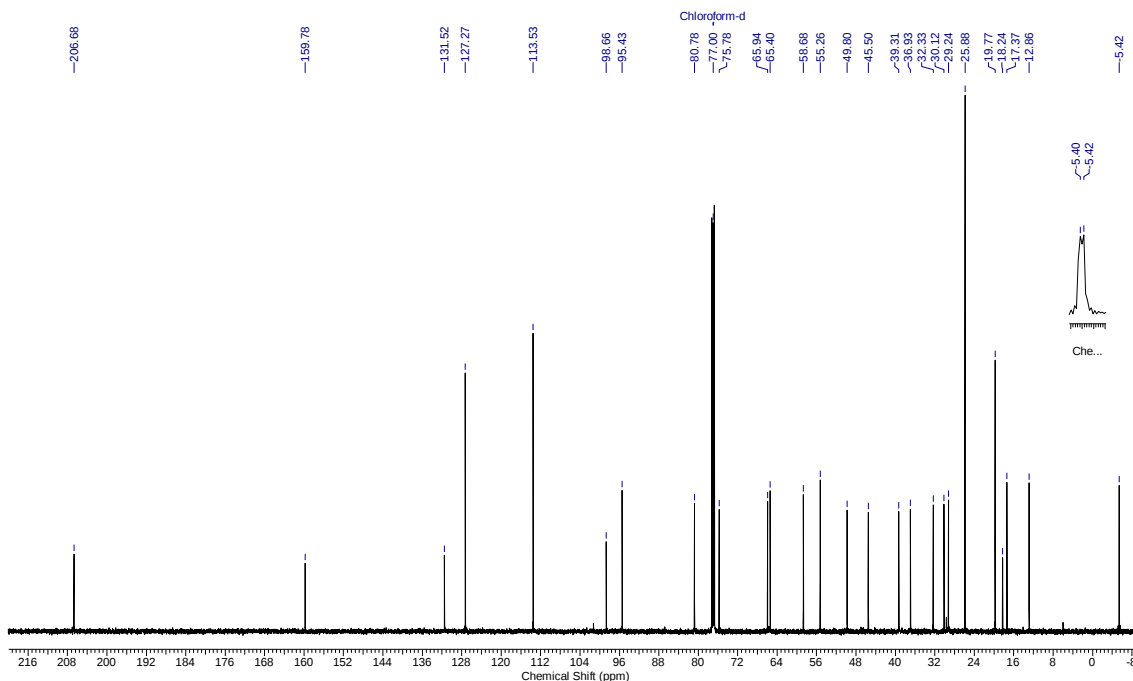


Figure S42: ¹³C NMR spectrum of compound **38** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Date	19 Sep 2012 16:16:22	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\set19\etH1_003001r	Number of Transients	128	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	29761.90
Pulse Sequence	dept135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.159				

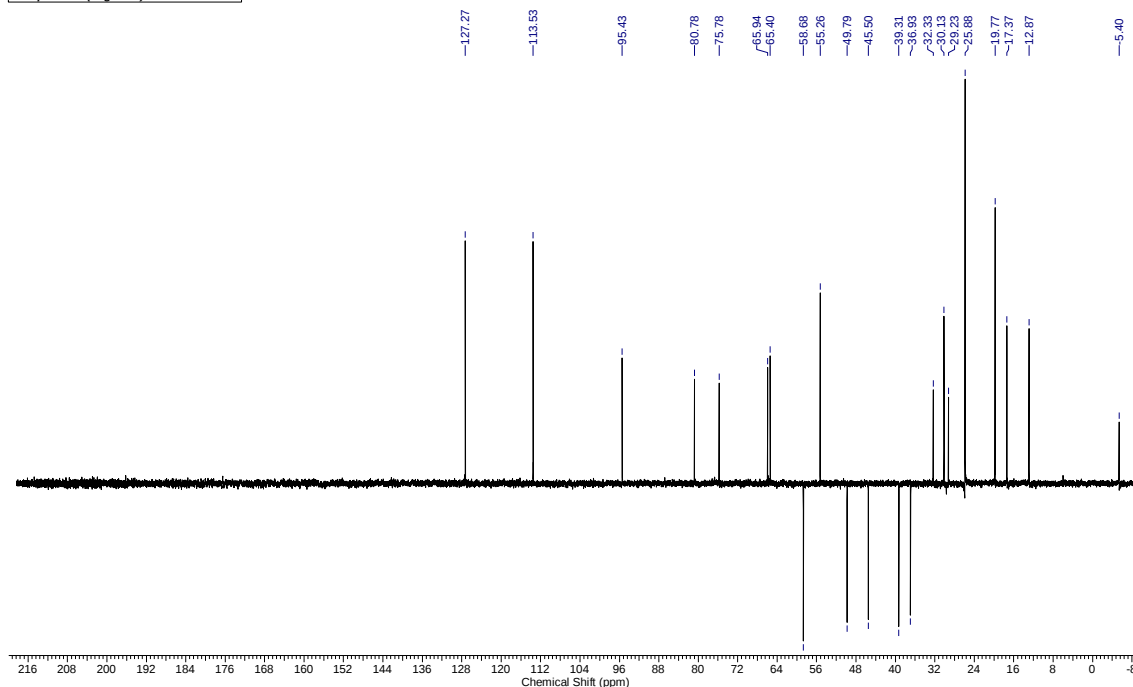


Figure S43: ¹³C NMR (dept 135) spectrum of compound **38** (125 MHz; CDCl₃).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\VEJR073PA.SPC			Date Stamp	23/11/2012 06:40:00
Date	23 Nov 2012 06:41:24	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

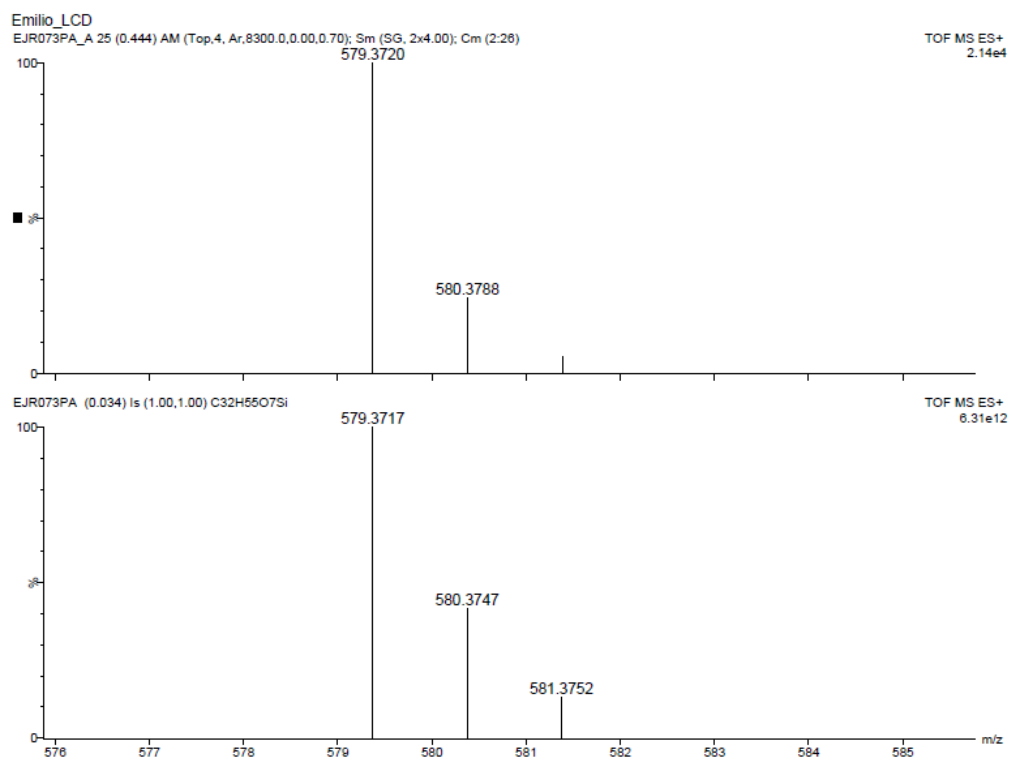
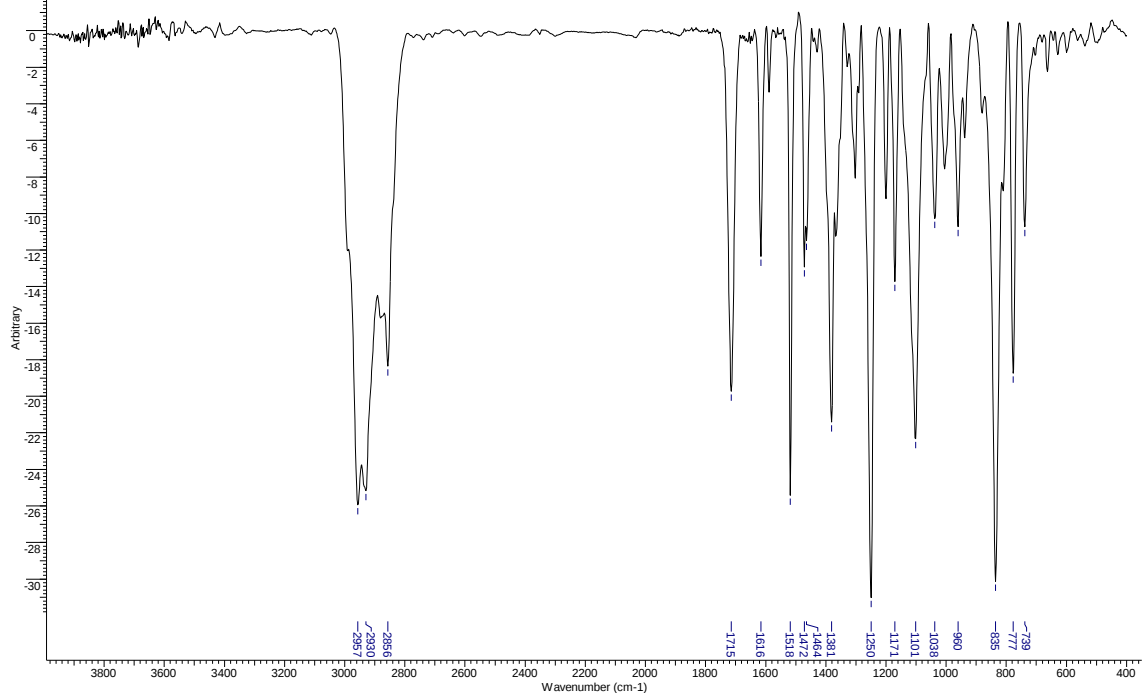


Figure S44: IR and HRMS (ESI TOF-MS) spectra of compound **38**.

Emilio "EJR-073PA" CDC13/Avance 500 MHz - set19ejrH1 - COSY

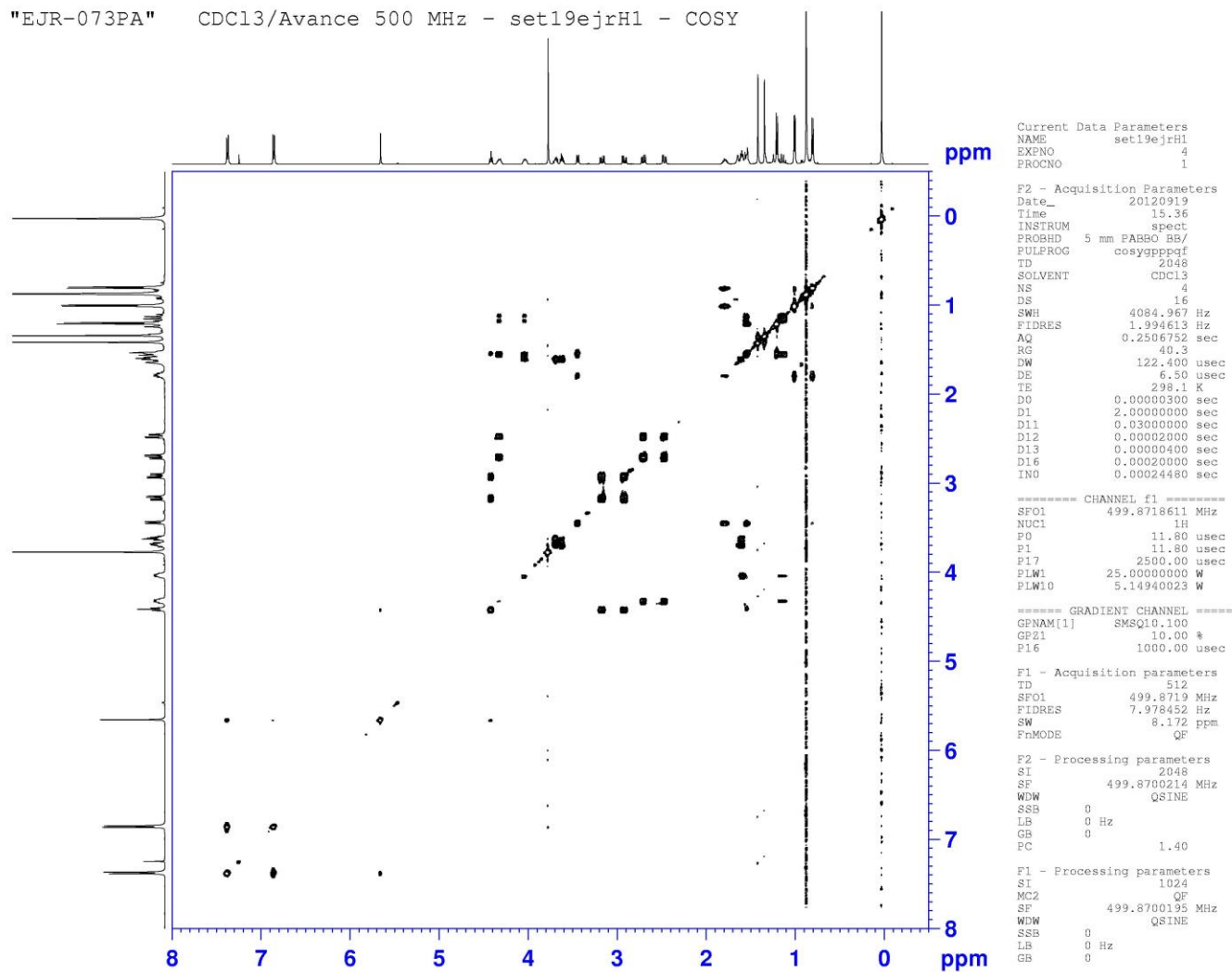


Figure S45: COSY contour map of compound **38** (500 MHz; CDCl₃).

Emilio "EJR-073PA" CDC13/Avance 500 MHz - set19ejrH1 - HSQC

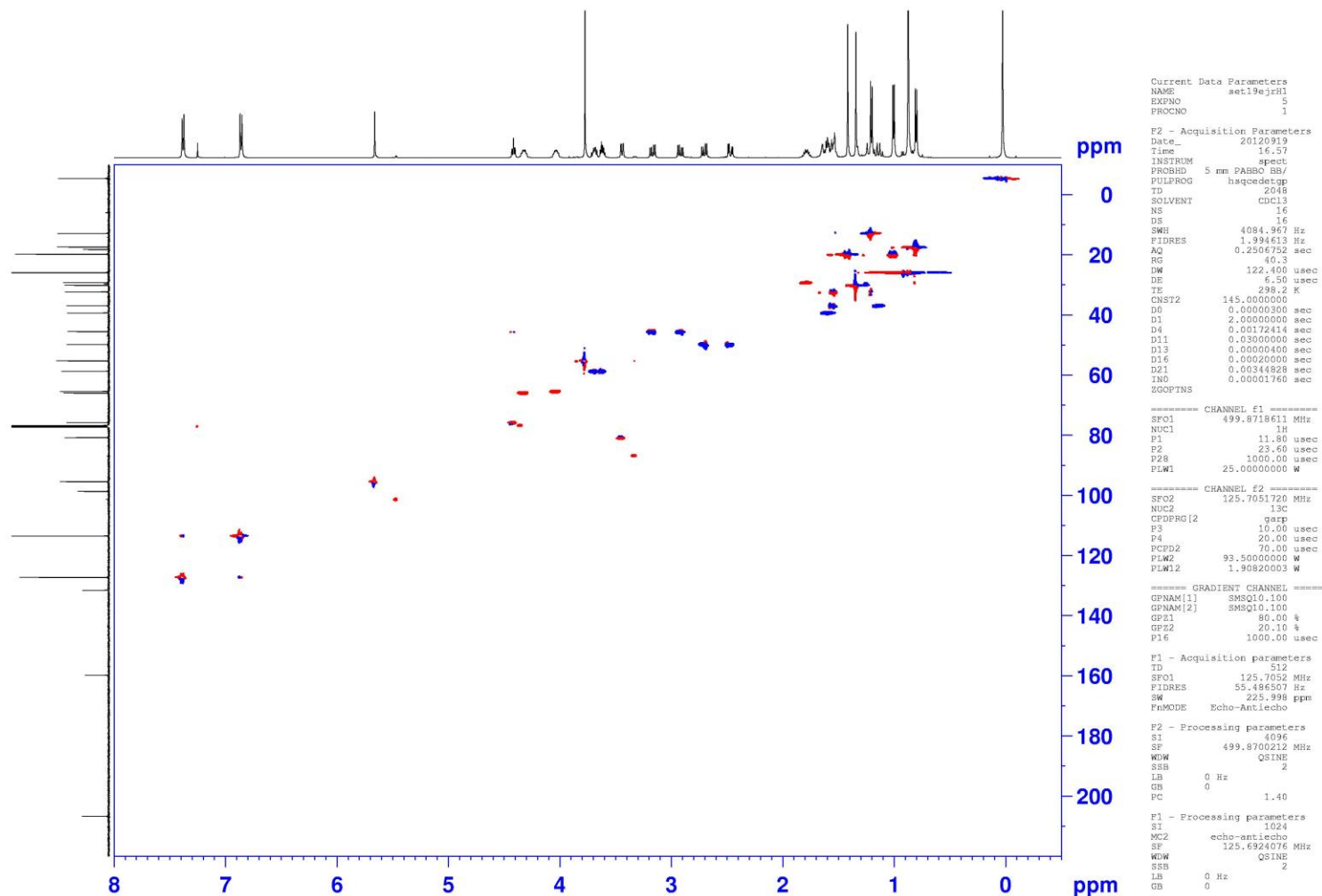


Figure S46: HSQC contour map of compound **38**.

Acquisition Time (sec)	3.5652	Date	20 Sep 2012 09:35:28				
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\set20ejrH1_004001r					Frequency (MHz)	400.18
Nucleus	1H	Number of Transients	256	Original Points Count	16384	Points Count	32768
Pulse Sequence	selnoggp	Solvent	CHLOROFORM-D			Sweep Width (Hz)	4595.59
Temperature (degree C)	22.460						

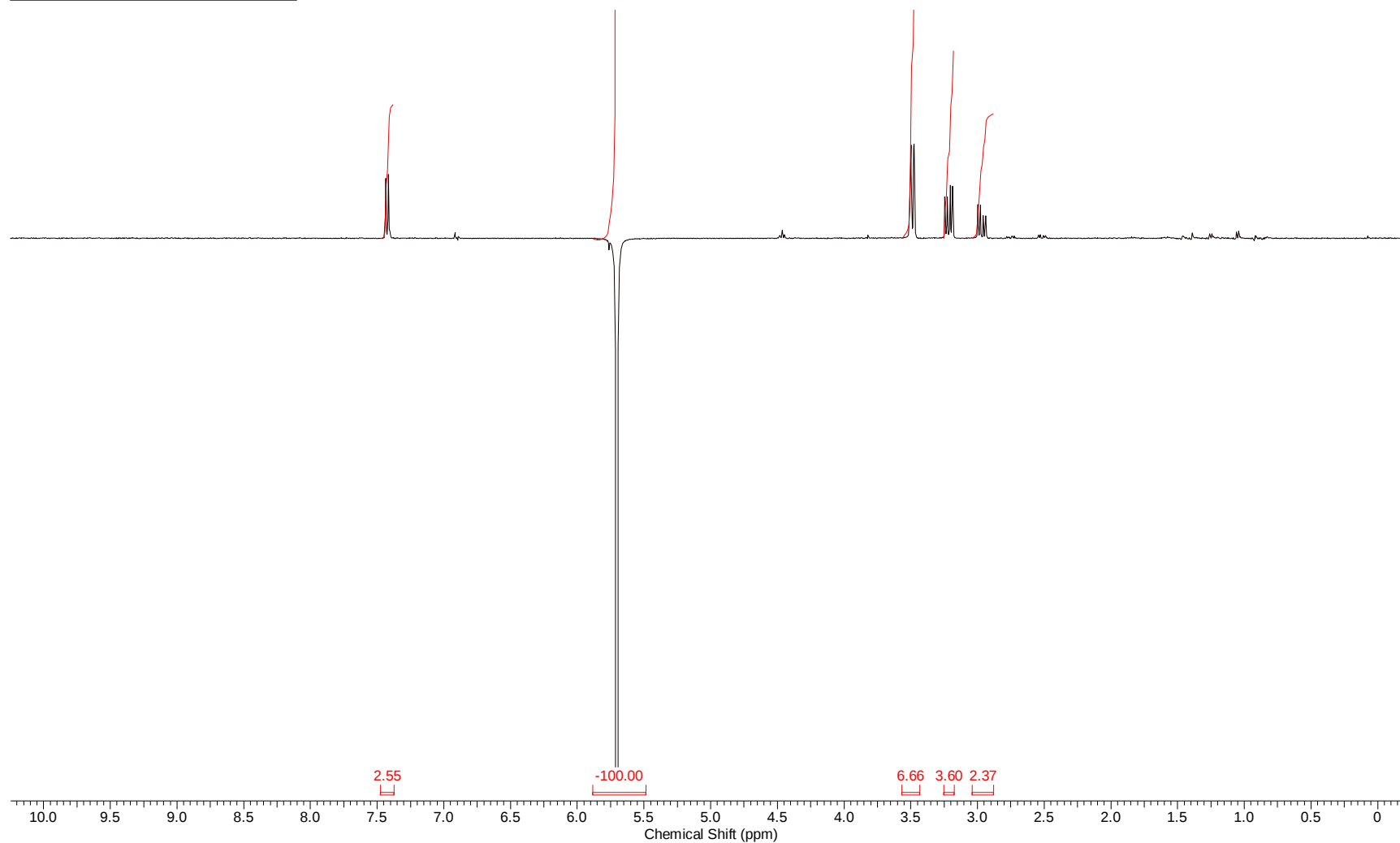


Figure S47: ¹H NMR (1D selective NOE) spectrum of compound **38** (400 MHz; CDCl₃).

Acquisition Time (sec)	3.5652	Date	20 Sep 2012 11:27:58				
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\set20\ejrH1_006001r					Frequency (MHz)	400.18
Nucleus	1H	Number of Transients	256	Original Points Count	16384	Points Count	32768
Pulse Sequence	selnoggp	Solvent	CHLOROFORM-D			Sweep Width (Hz)	4595.59
Temperature (degree C)	22.360						

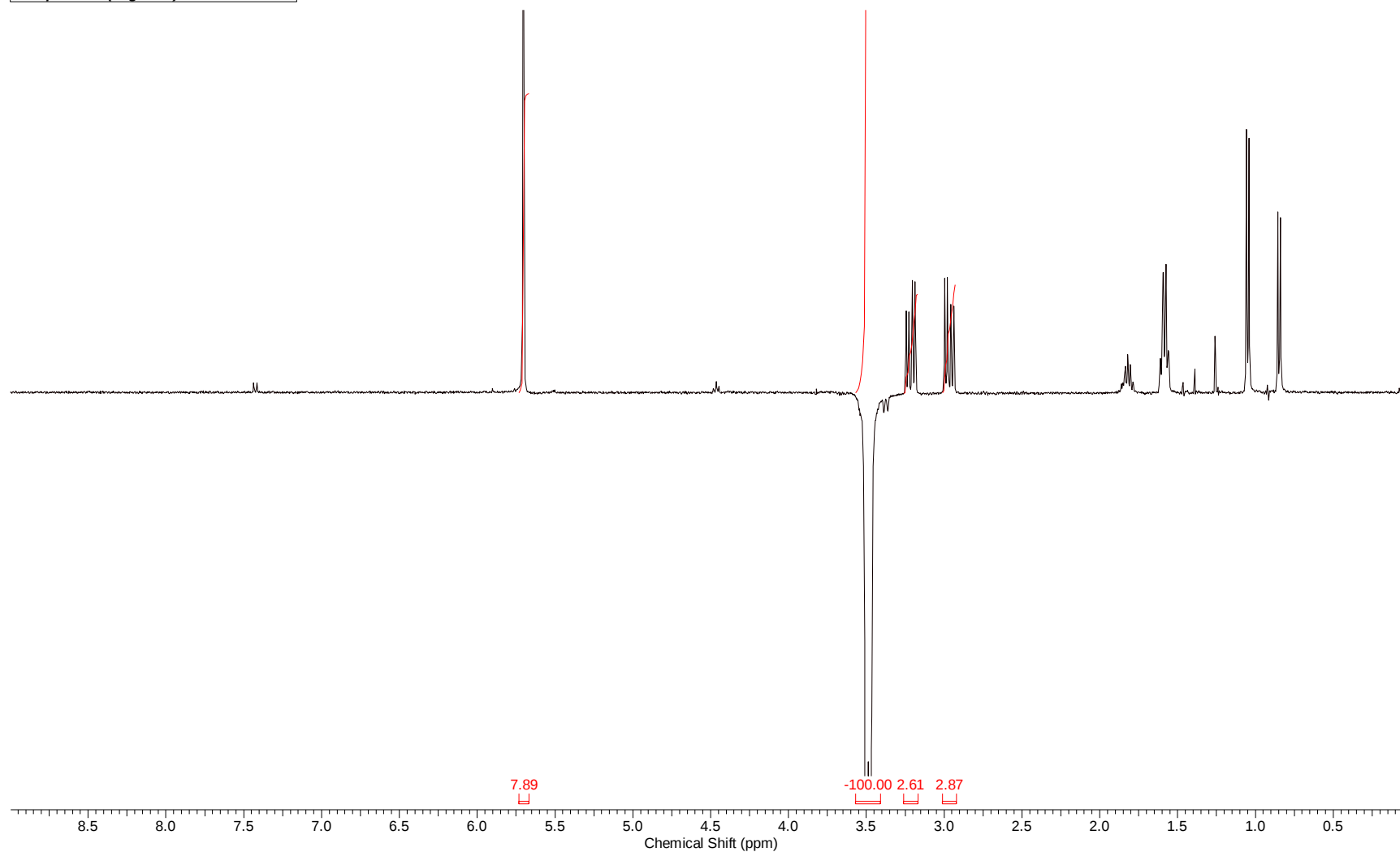


Figure S48: ¹H NMR (1D selective NOE) spectrum of compound **38** (400 MHz; CDCl₃).

Acquisition Time (sec)	3.5652	Date	20 Sep 2012 12:36:34				
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\set20\ejrH1_008001r					Frequency (MHz)	400.18
Nucleus	1H	Number of Transients	256	Original Points Count	16384	Points Count	32768
Pulse Sequence	selnoggp	Solvent	CHLOROFORM-D			Sweep Width (Hz)	4595.59
Temperature (degree C)	22.460						

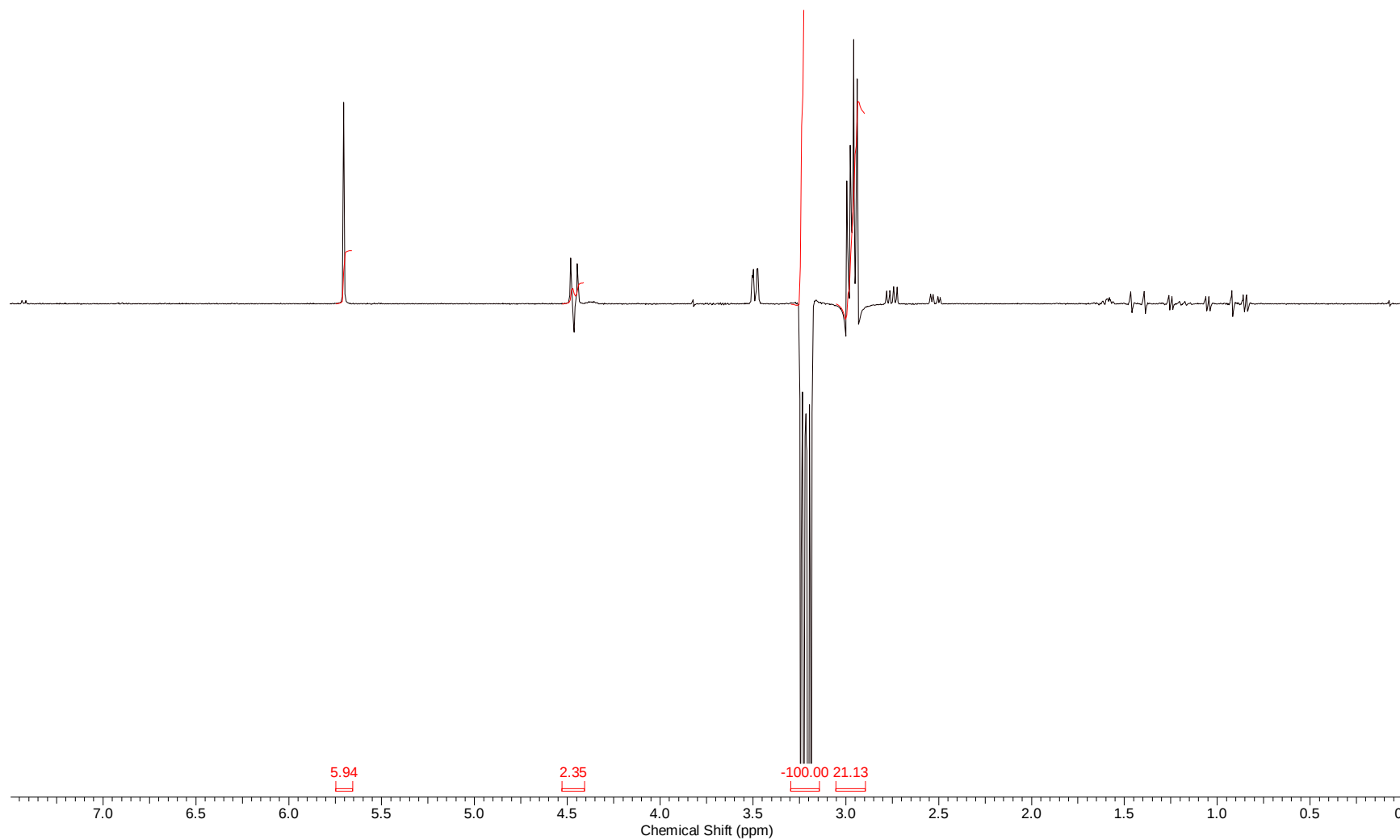


Figure S49: ¹H NMR (1D selective NOE) spectrum of compound **38** (400 MHz; CDCl₃).

Acquisition Time (sec)	1.5903	Date	21 Sep 2012 11:13:28	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\set21ejrH2_001001r	Nucleus	¹ H	Points Count	65536
Pulse Sequence	zg30	Number of Transients	16	Original Points Count	16384
Temperature (degree C)	25.148	Solvent	CHLOROFORM-D	Sweep Width (Hz)	10302.20

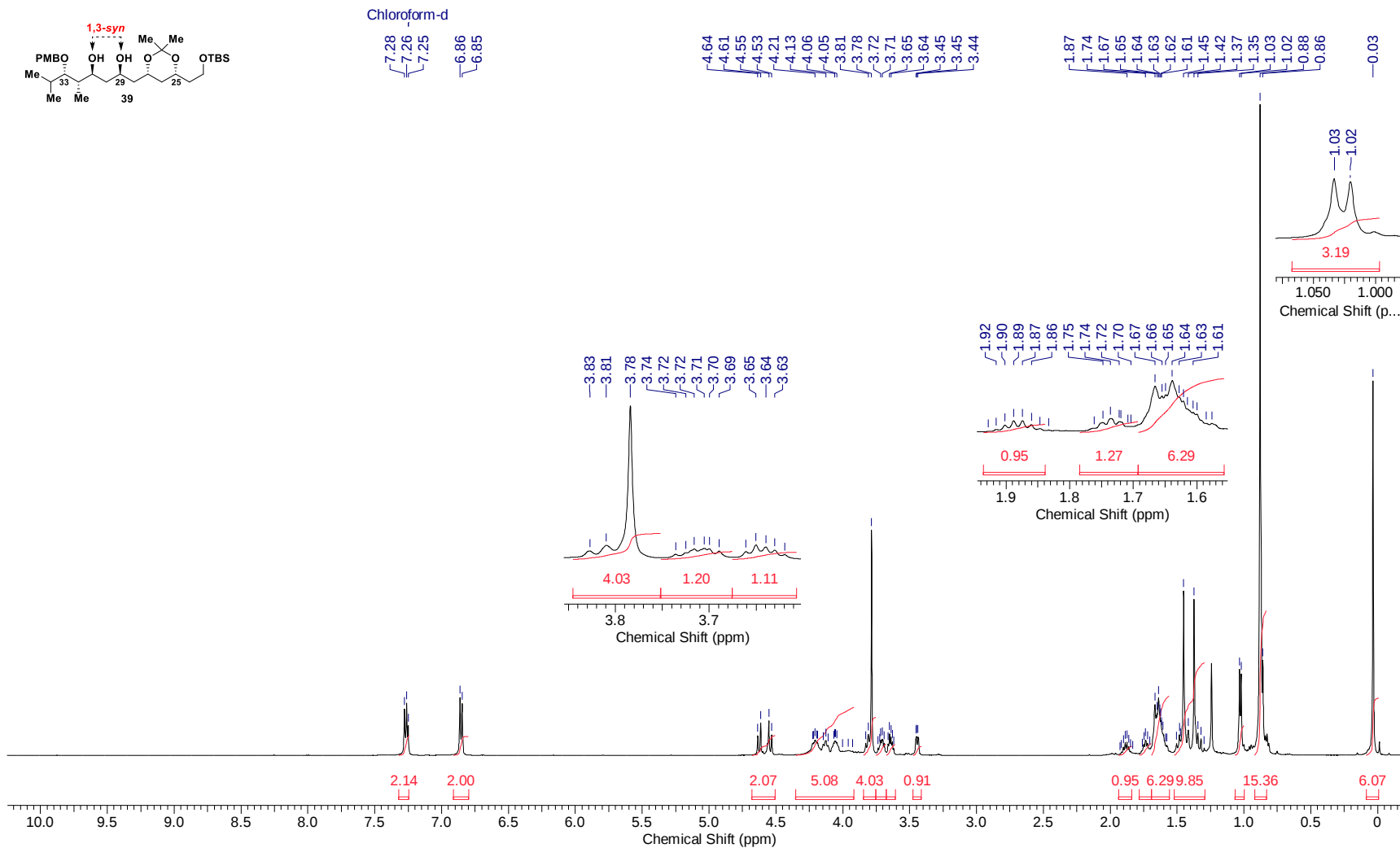


Figure S50: ¹H NMR spectrum of compound **39** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5439	Comment	Emilio - EJR-072 - CDCl ₃ - set20ejrH	Date	21 Sep 2012 12:27:14
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\set20ejrH_003001r	Frequency (MHz)	62.90	Nucleus	¹³ C
Number of Transients	12544	Original Points Count	8192	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	15060.24	Pulse Sequence	zgpg30
				Temperature (degree C)	25.160

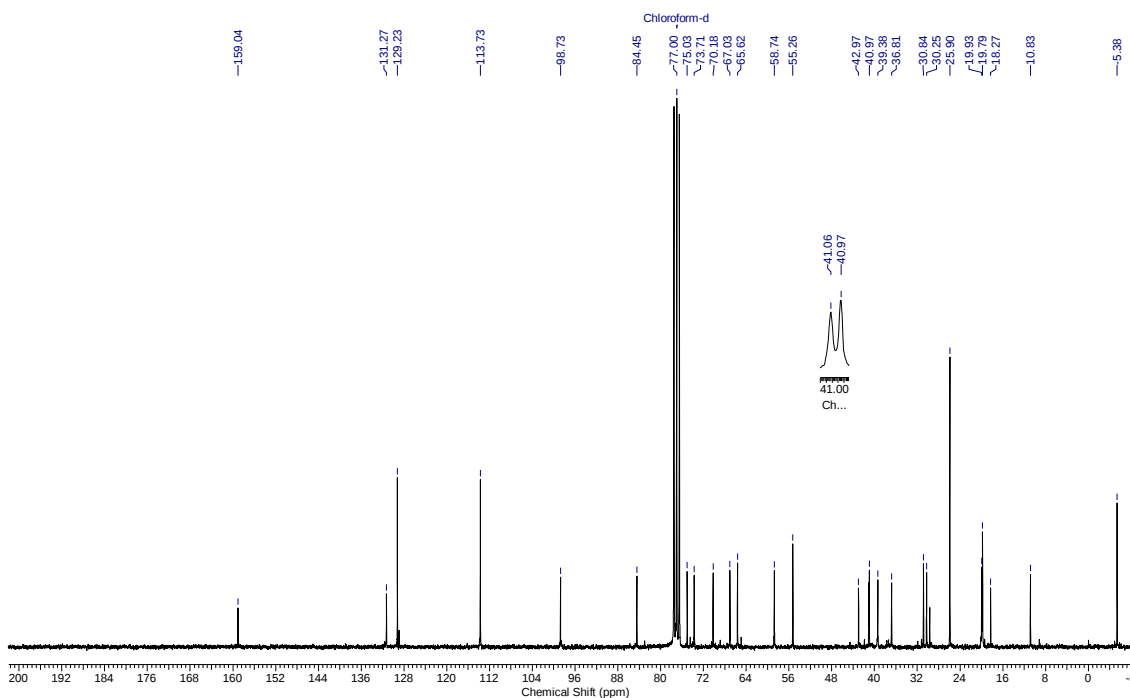


Figure S51: ¹³C NMR spectrum of compound **39** (62.5 MHz; CDCl₃).

Acquisition Time (sec)	0.5439	Comment	Emilio - EJR-072 - CDCl ₃ - set20ejrH	Date	21 Sep 2012 12:27:02
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\set20ejrH_002001r	Frequency (MHz)	62.90	Nucleus	¹³ C
Nucleus	¹³ C	Number of Transients	1024	Original Points Count	8192
Pulse Sequence	dept135	Solvent	CHLOROFORM-D	Points Count	32768
Temperature (degree C)	25.160			Sweep Width (Hz)	15060.24

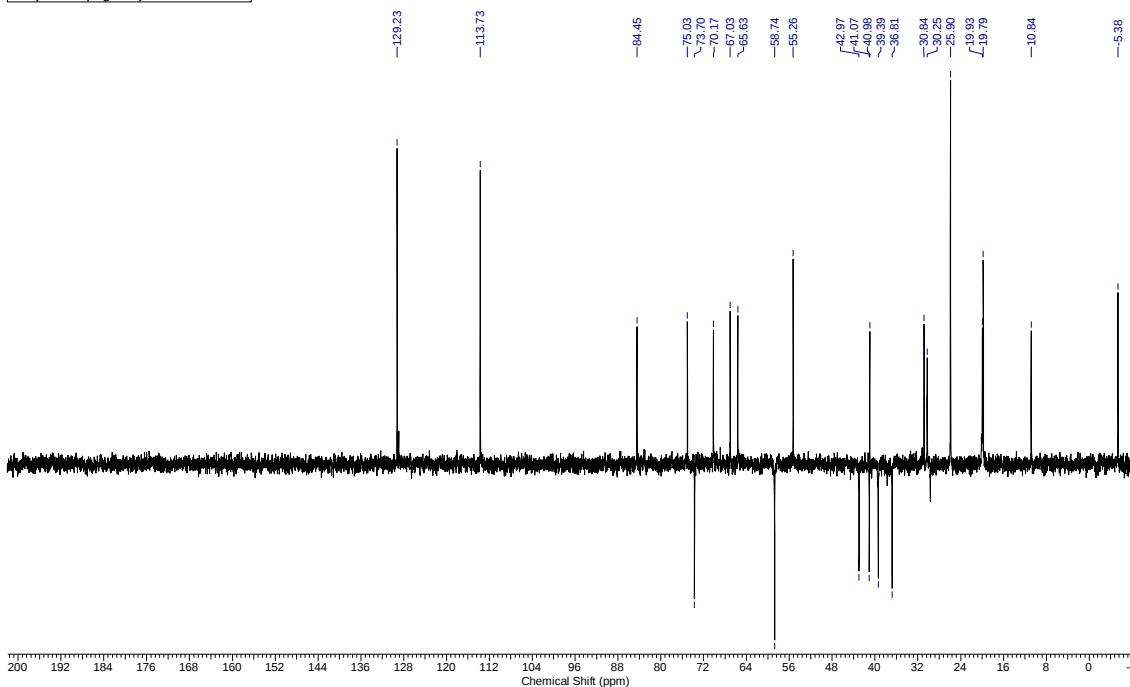


Figure S52: ¹³C NMR (dept 135) spectrum of compound **39** (62.5 MHz; CDCl₃).

Comment	KBr Helder	File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\VEJR072.SPC			Date Stamp	23/11/2012 06:29:00
Date	23 Nov 2012 06:30:36	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

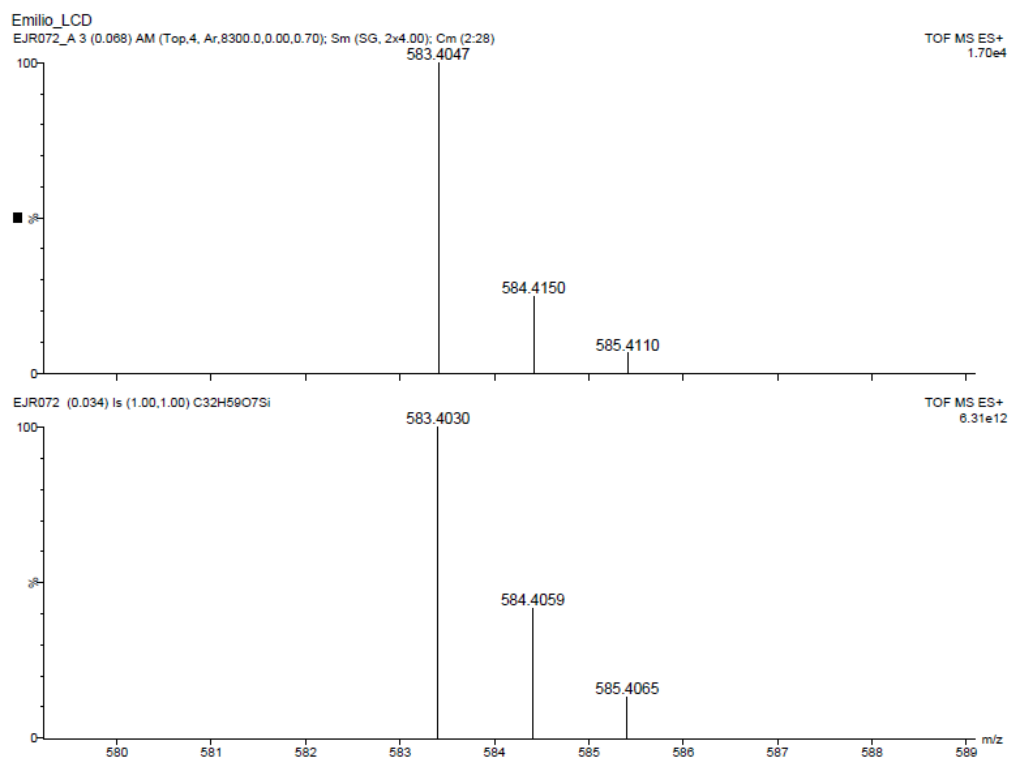
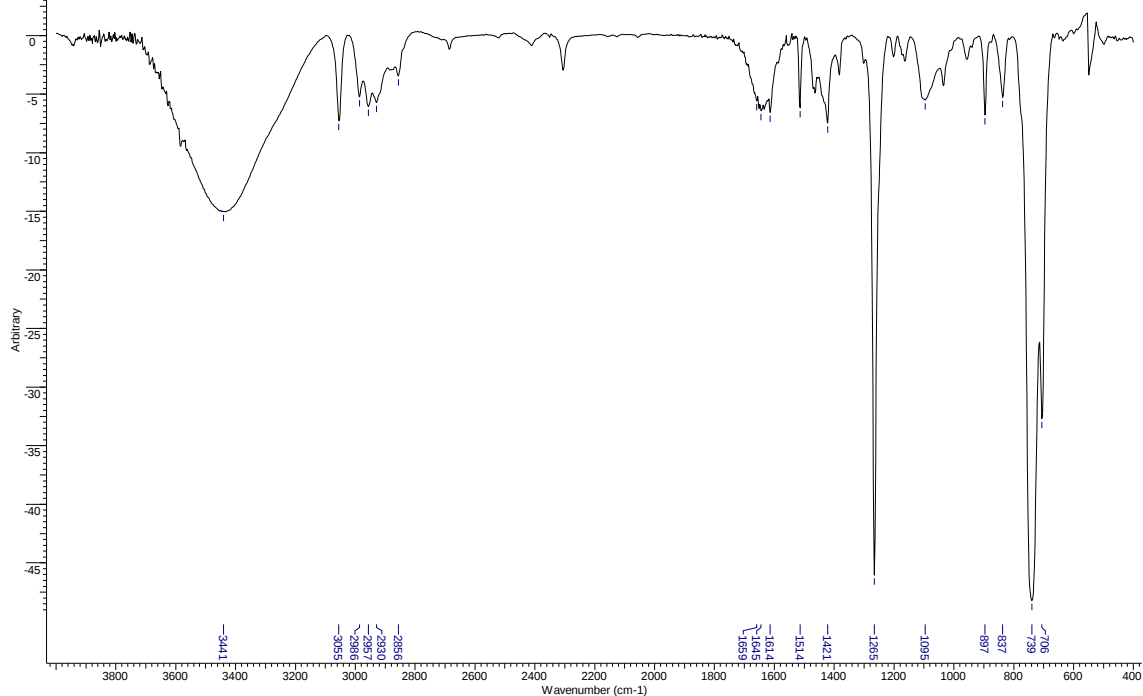


Figure S53: IR and HRMS (ESI TOF-MS) spectra of compound **39**.

Acquisition Time (sec)	2.6564	Date	24 Sep 2012 12:35:58	Frequency (MHz)	600.17
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\set24\jrH1_001001r	Number of Transients	16	Original Points Count	32768
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Sweep Width (Hz)	12335.53		
Temperature (degree C)	25.351				

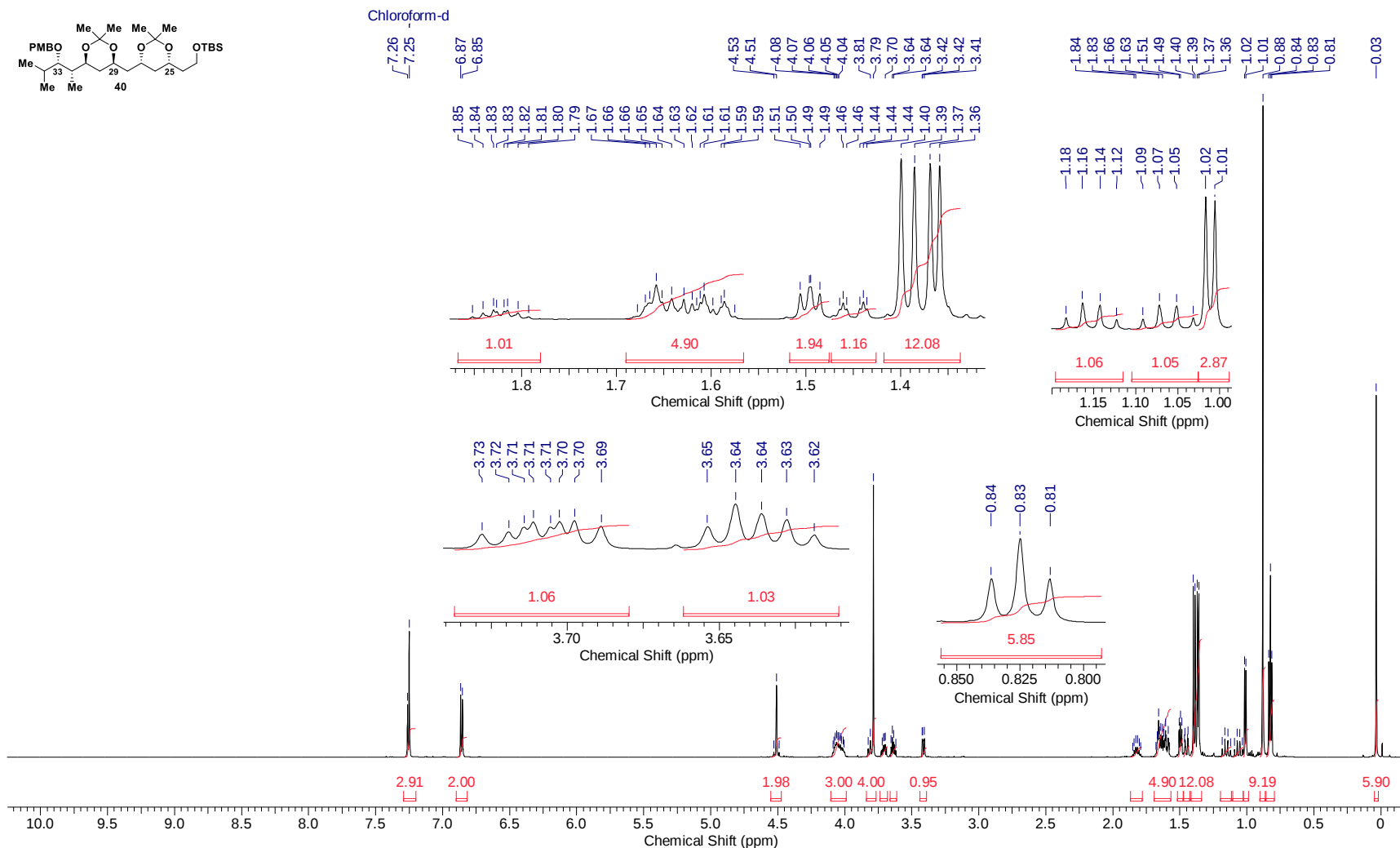


Figure S54: ¹H NMR spectrum of compound **40** (600 MHz; CDCl₃).

Acquisition Time (sec)	0.4544	Date	24 Sep 2012 13:35:42	Frequency (MHz)	150.91
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\set24\etH1_002001r	Number of Transients	1024	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	36057.69
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.390				

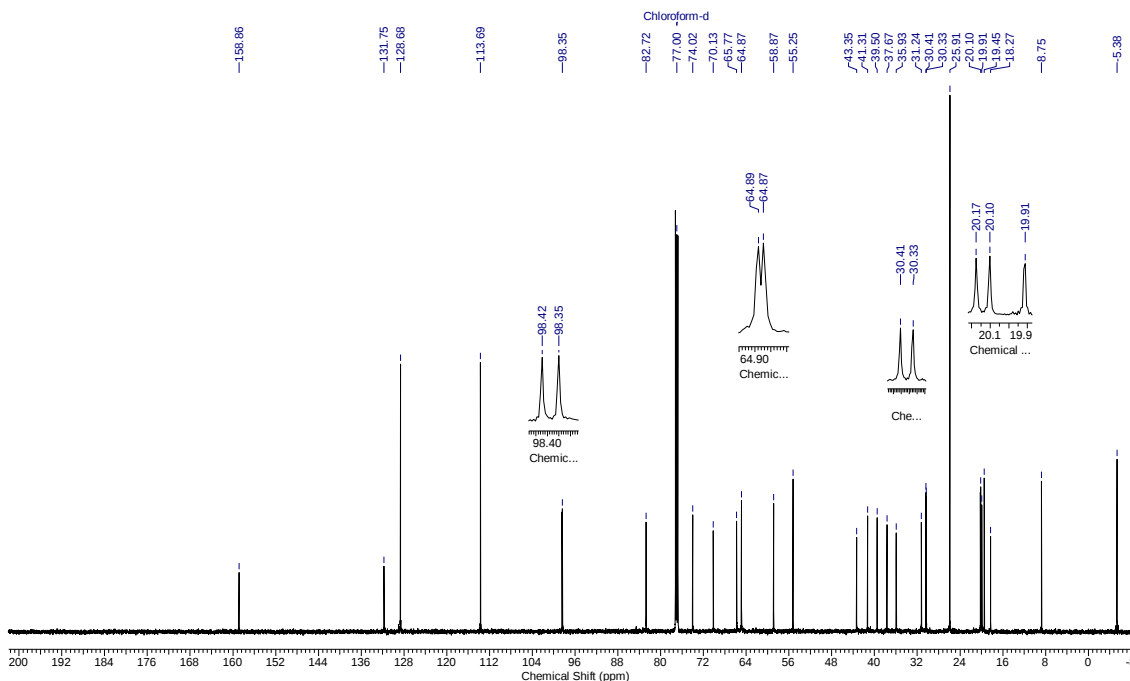


Figure S55: ¹³C NMR spectrum of compound **40** (150 MHz; CDCl₃).

Acquisition Time (sec)	0.4544	Date	24 Sep 2012 13:31:32	Frequency (MHz)	150.91
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\set24\etH1_003001r	Number of Transients	256	Points Count	65536
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	36057.69
Pulse Sequence	deptsp135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.352				

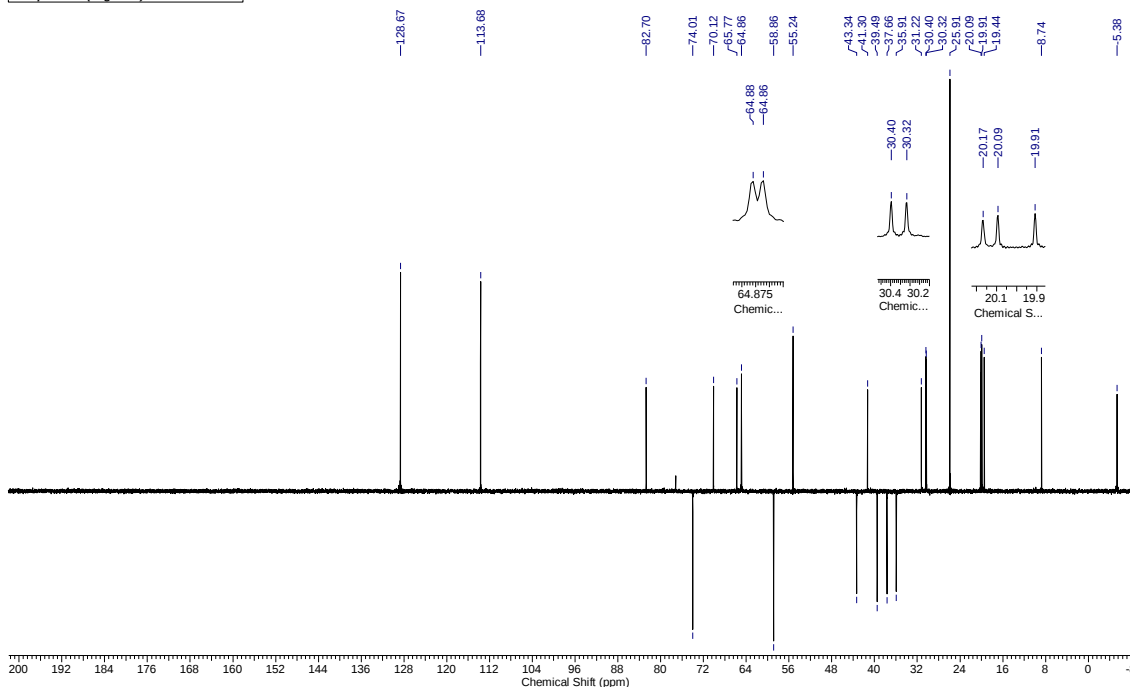


Figure S56: ¹³C NMR (dept 135) spectrum of compound **40** (150 MHz; CDCl₃).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\VEJR074PA.SPC			Date Stamp	23/11/2012 06:22:00
Date	23 Nov 2012 06:23:32	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

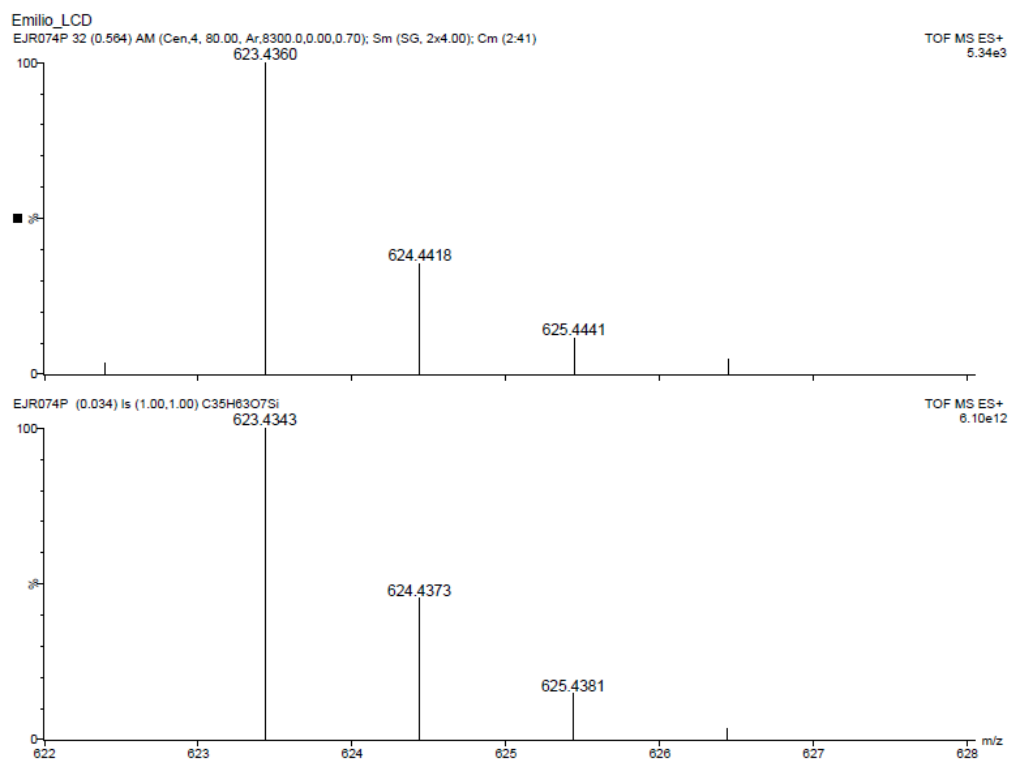
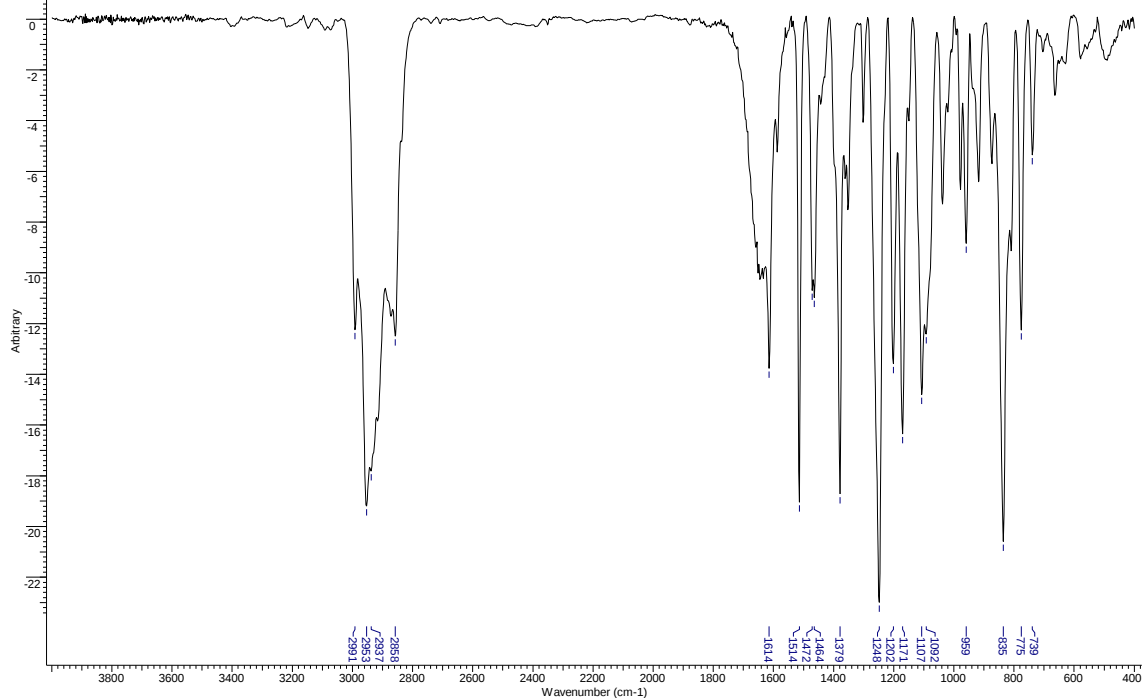


Figure S57: IR and HRMS (ESI TOF-MS) spectra of compound **40**.

Acquisition Time (sec)	1.5903	Date	18 Jun 2013 09:51:56	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\jun18\jrH1_001001r	Number of Transients	16	Original Points Count	16384
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Sweep Width (Hz)	10302.20		
Temperature (degree C)	25.157				

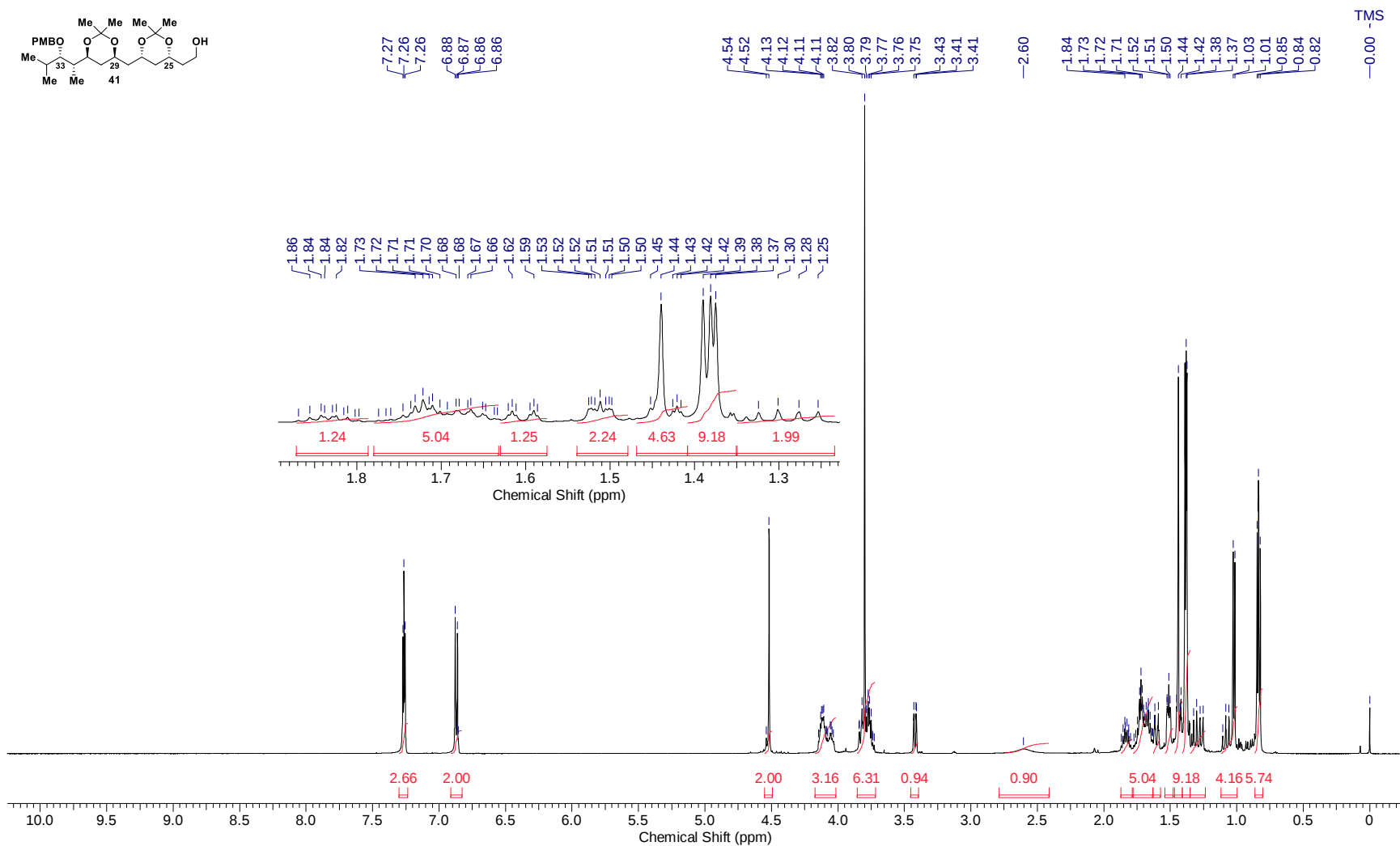


Figure S58: ¹H NMR spectrum of compound **41** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.4981	Date	18 Jun 2013 10:38:56	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\jun18\ejH1_002001r	Number of Transients	1071	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.141				

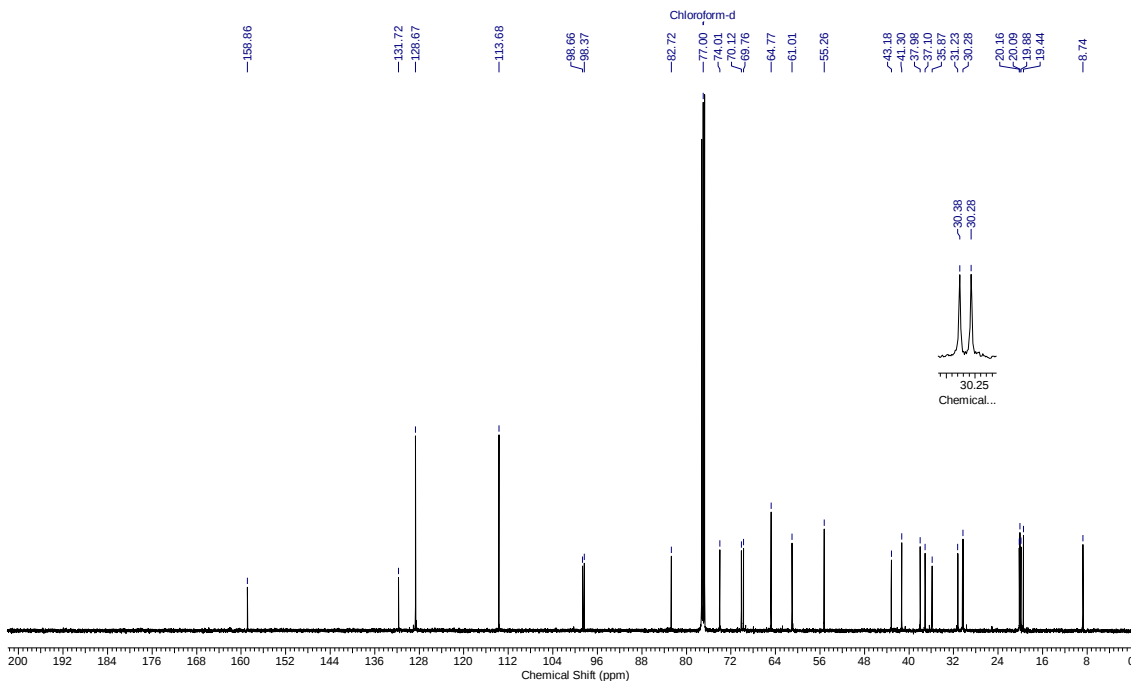


Figure S59: ¹³C NMR spectrum of compound **41** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Date	18 Jun 2013 11:02:50	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\jun18\ejH1_003001r	Number of Transients	512	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	29761.90
Pulse Sequence	depl135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.149				

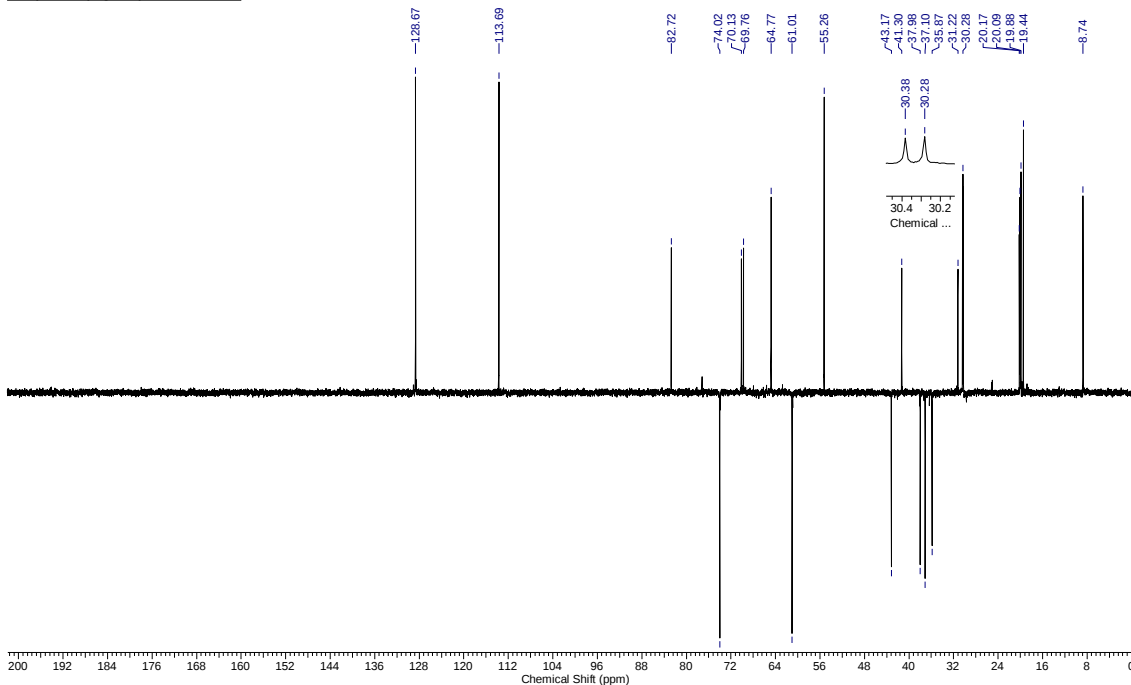


Figure S60: ¹³C NMR (dept 135) spectrum of compound **41** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 000 por LQOS data sexta-feira, agosto 16 2013	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVEJR162P_1.SP	Date Stamp	fri aug 16 14:50:12 2013 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	fri aug 16 14:51:33 2013 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		

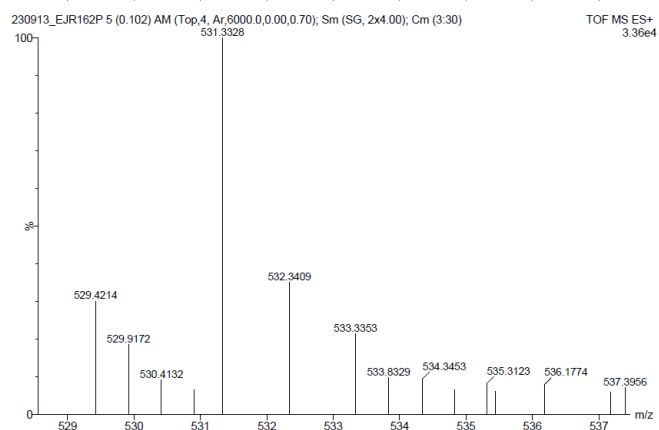
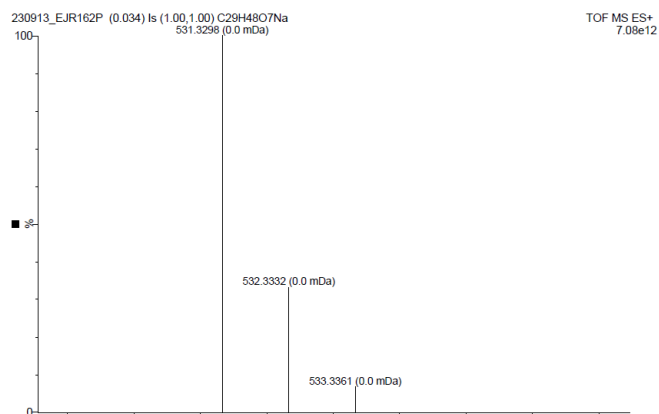
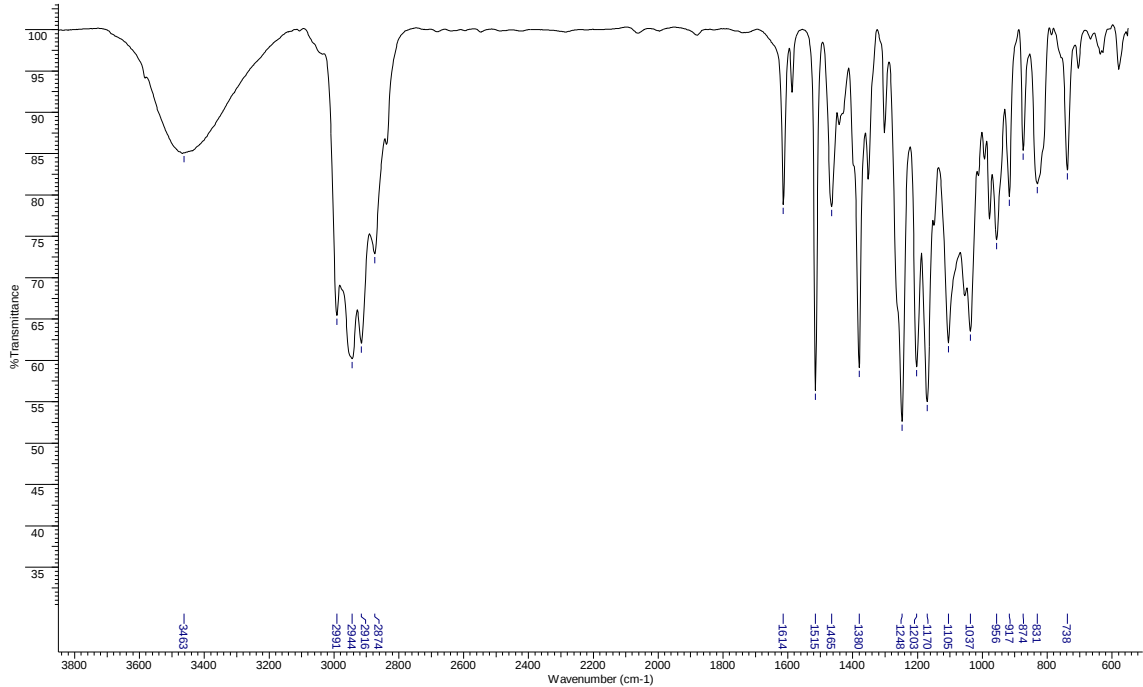


Figure S61: IR and HRMS (ESI TOF-MS) spectra of compound 41.

Acquisition Time (sec)	1.5903	Date	19 Jun 2013 16:54:06	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\jun19\H1_001001r	Number of Transients	16	Original Points Count	16384
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30			Sweep Width (Hz)	10302.20
Temperature (degree C)	25.155				

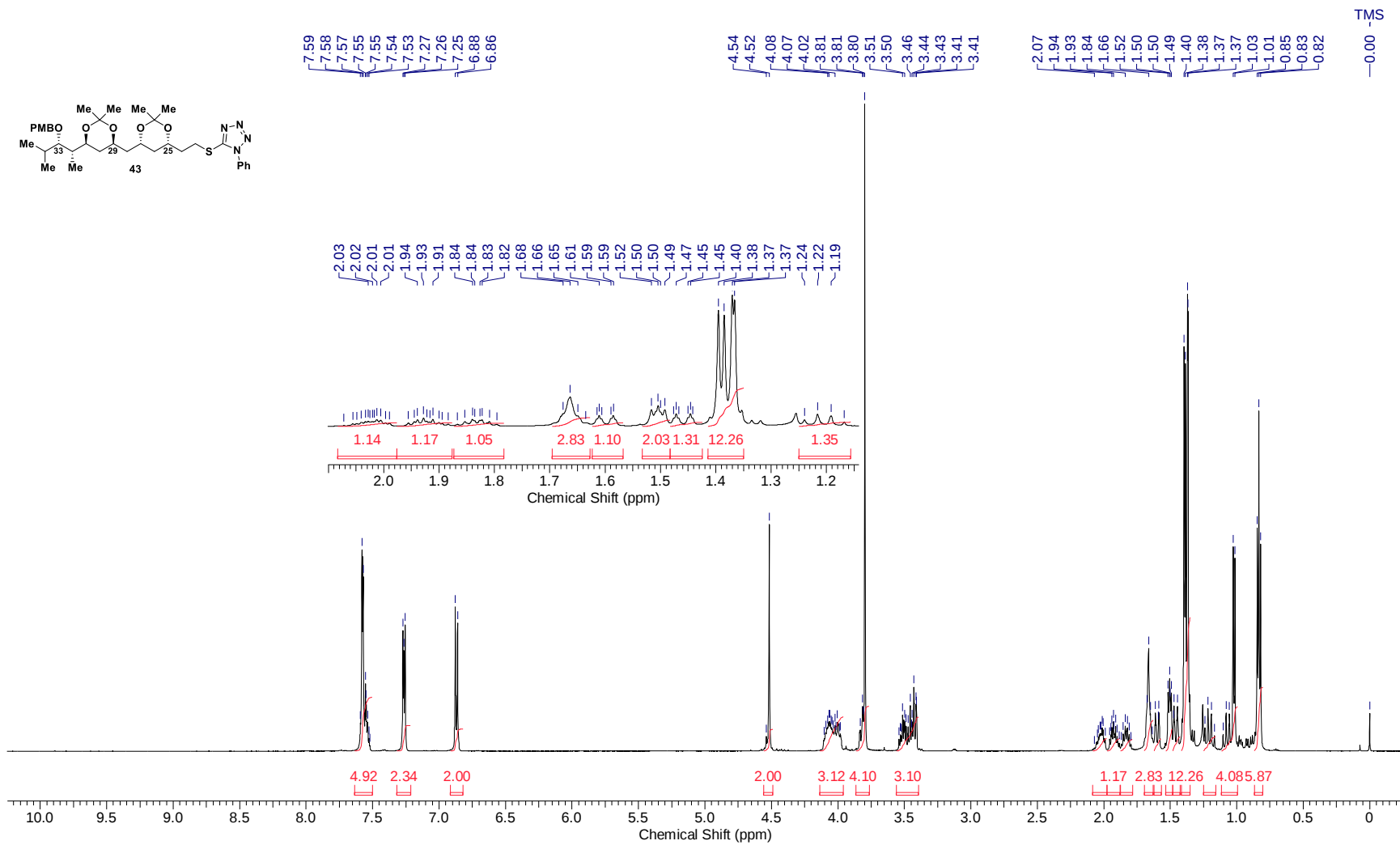


Figure S62: ¹H NMR spectrum of compound **43** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.4981	Date	19 Jun 2013 17:42:06	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\jun19\H1_002001r	Number of Transients	1024	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.163				

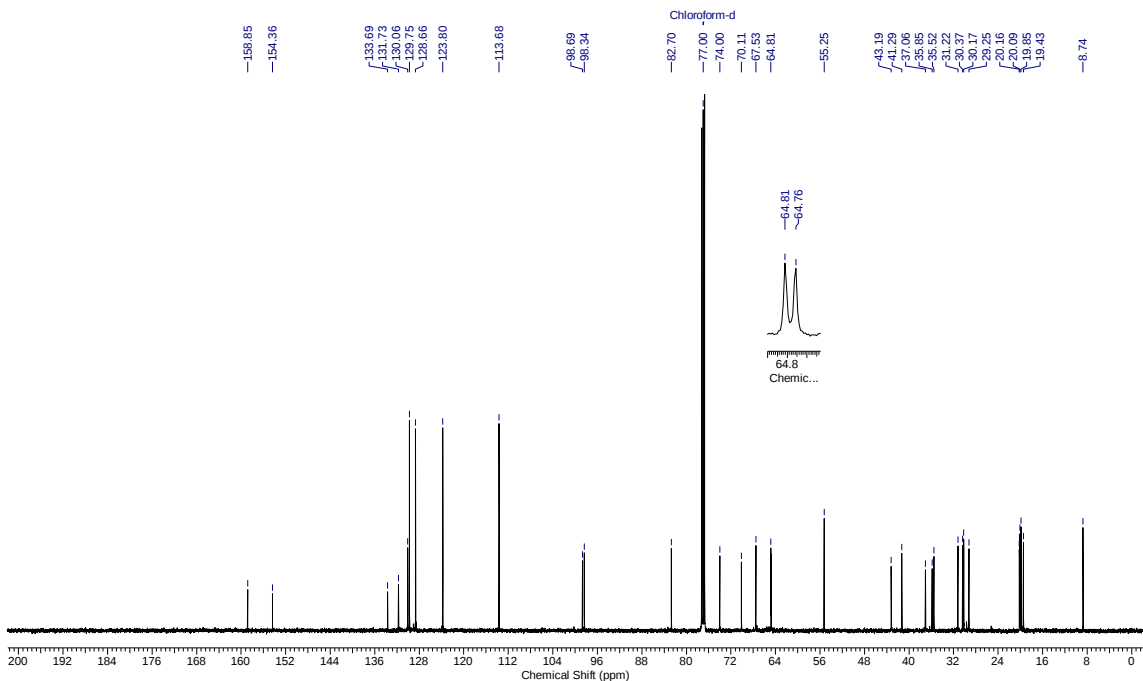


Figure S63: ¹³C NMR spectrum of compound **43** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Date	19 Jun 2013 17:55:00	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\jun19\H1_003001r	Number of Transients	256	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	29761.90
Pulse Sequence	dept135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.156				

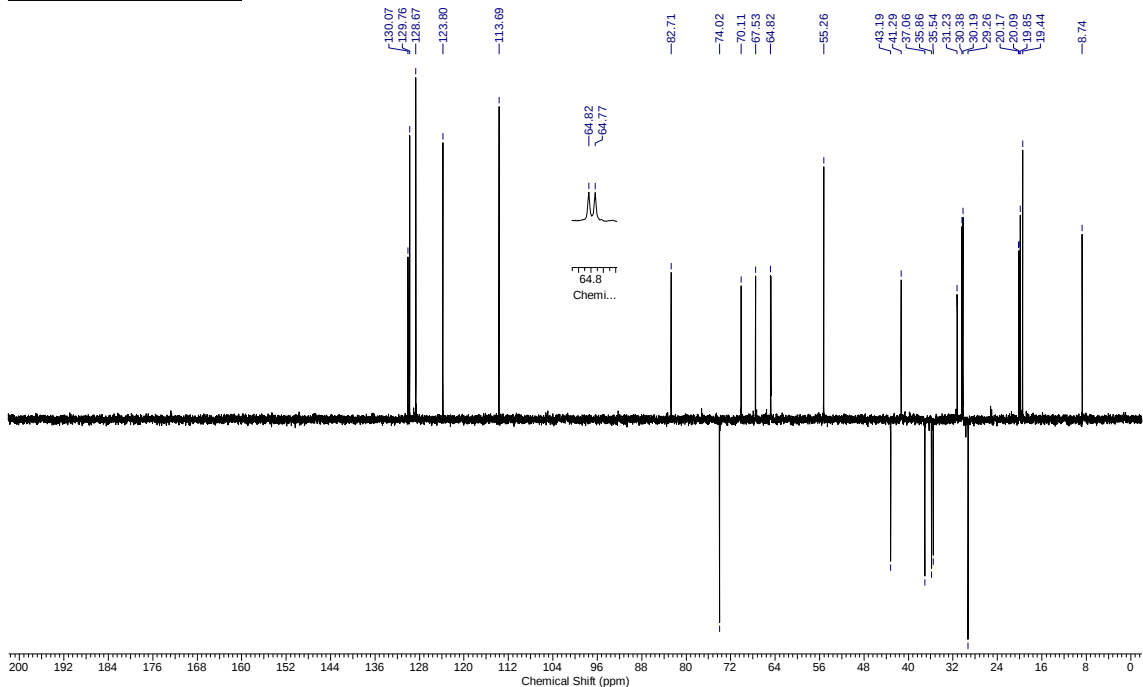


Figure S64: ¹³C NMR (dept 135) spectrum of compound **43** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 001 por LQOS data sexta-feira, agosto 16 2013	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\OUTORADO\IVEJR163P_1.SP	Date Stamp	frí aug 16 14:58:11 2013 Hora oficial do Brasil (GMT-3:00)		
Date	frí aug 16 14:59:54 2013 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Instrument	Spectrum Two
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000	Spectrum Range	550.0000 - 4000.0000

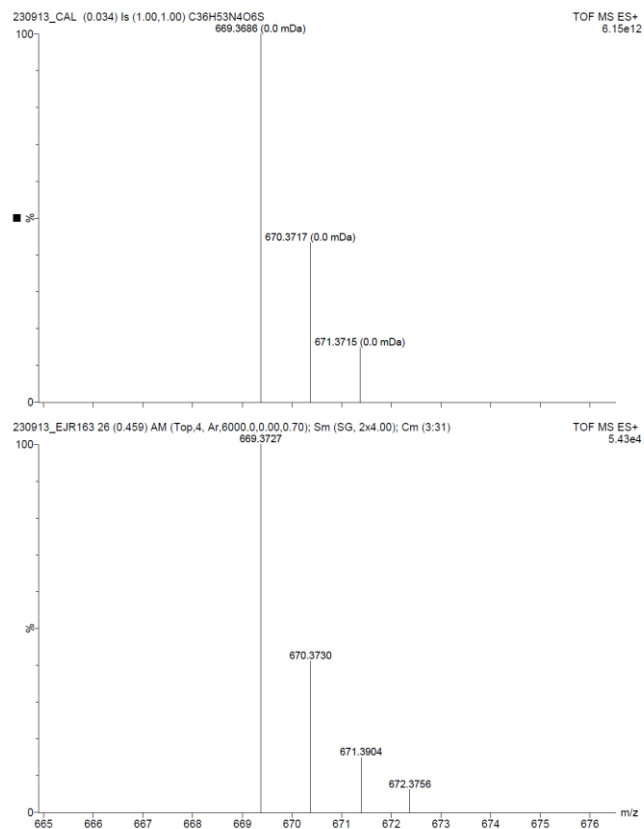
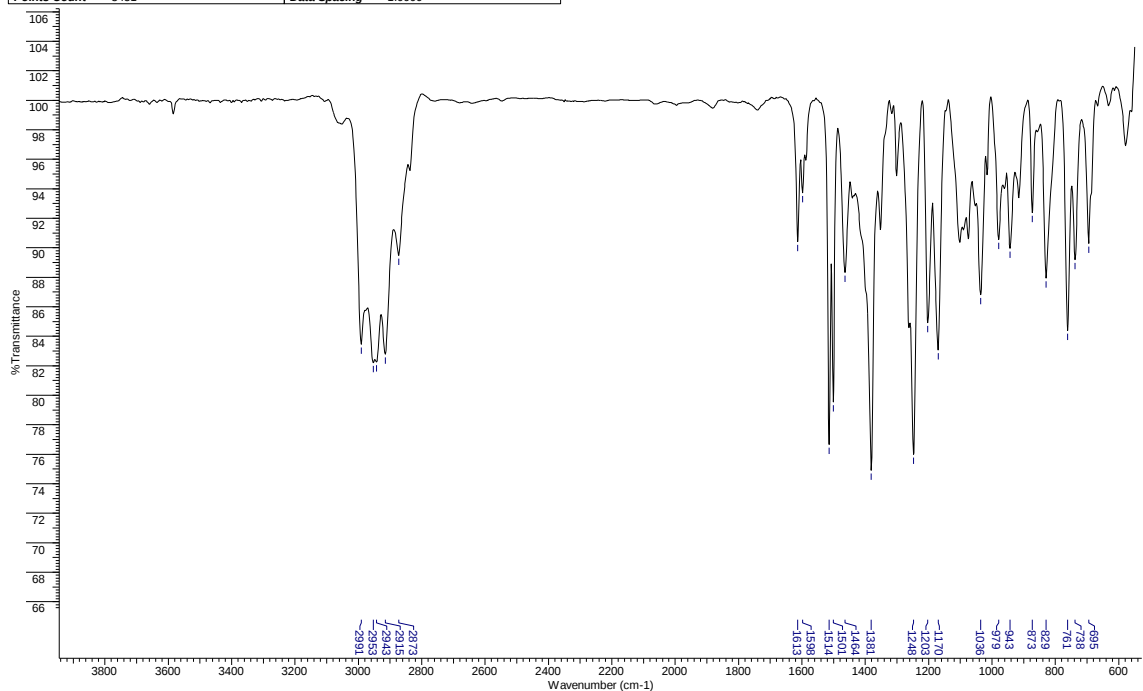


Figure S65: IR and HRMS (ESI TOF-MS) spectra of compound **43**.

Acquisition Time (sec)	2.6564	Date	05 Sep 2013 12:08:50	Frequency (MHz)	600.17
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\set05ejrH1_001001r	Number of Transients	16	Points Count	65536
Nucleus	¹ H	Original Points Count	32768	Sweep Width (Hz)	12335.53
Pulse Sequence	zg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.147				

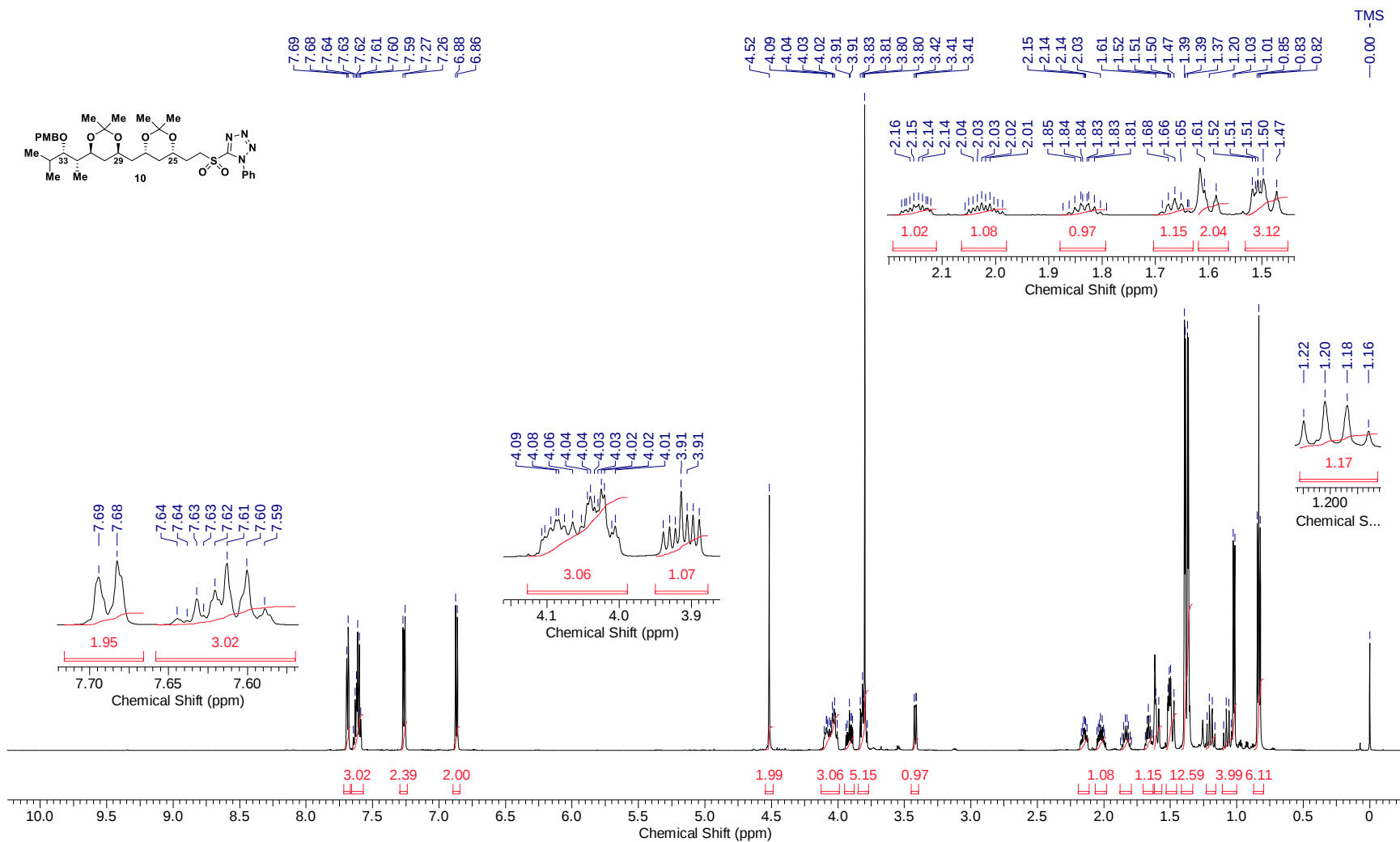


Figure S66: ¹H NMR spectrum of compound **10** (600 MHz; CDCl₃).

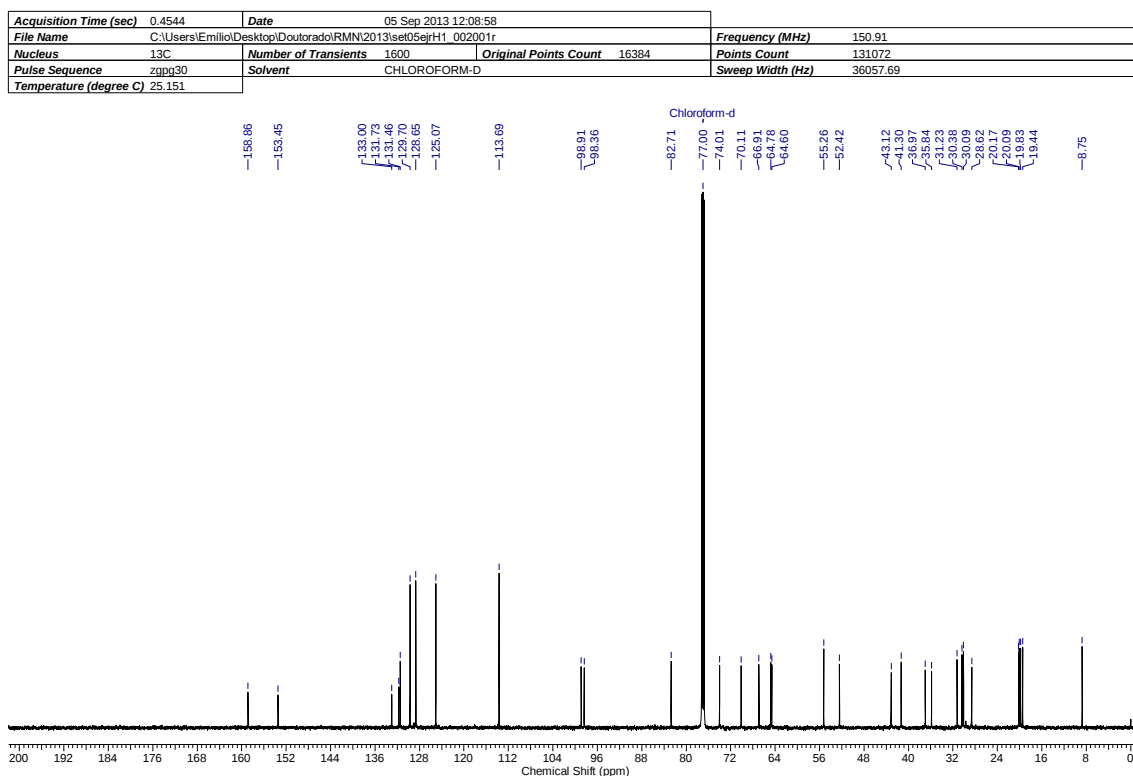


Figure S67: ¹³C NMR spectrum of compound **10** (150 MHz; CDCl₃).

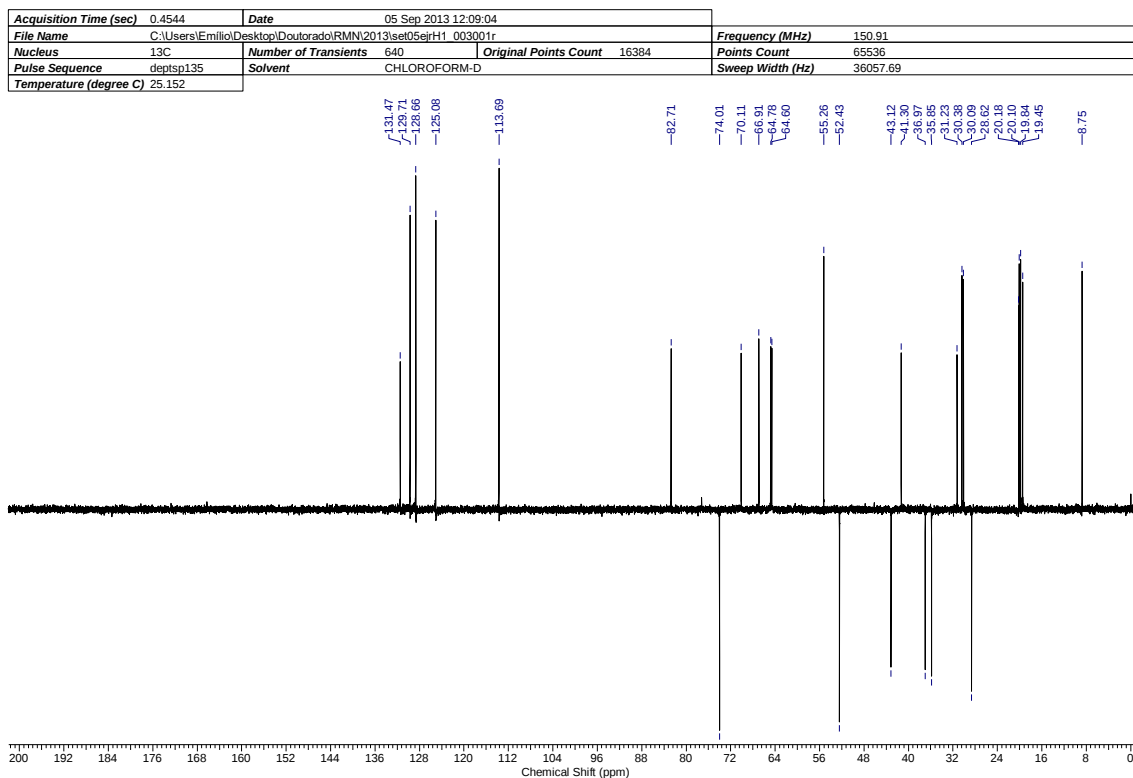


Figure S68: ¹³C NMR (dept 135) spectrum of compound **10** (150 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Origin	cial do Brasil (GMT-3:00)	File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\I\VEJR164P_1.SP
Date Stamp	Fri Sep 06 12:56:15 2013 Hora oficial do Brasil (GMT-3:00)	Date	Fri Sep 06 12:59:12 2013 Hora oficial do Brasil (GMT-3:00)	Spectral Region	IR
Technique	Infrared	Instrument	Spectrum Two	X Axis	Wavenumber (cm-1)
Y Axis	%Transmittance	Spectrum Range	550.0000 - 4000.0000	Points Count	3451
				Data Spacing	1.0000

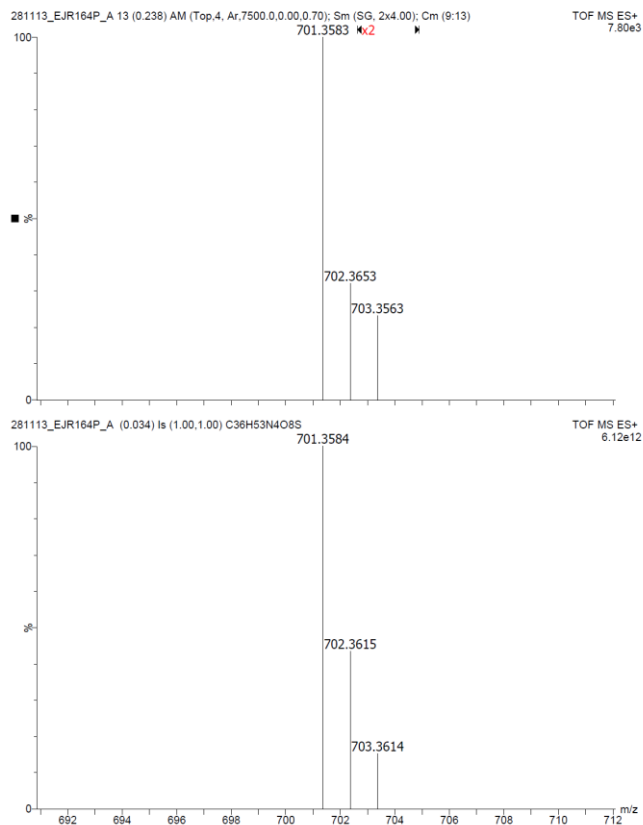
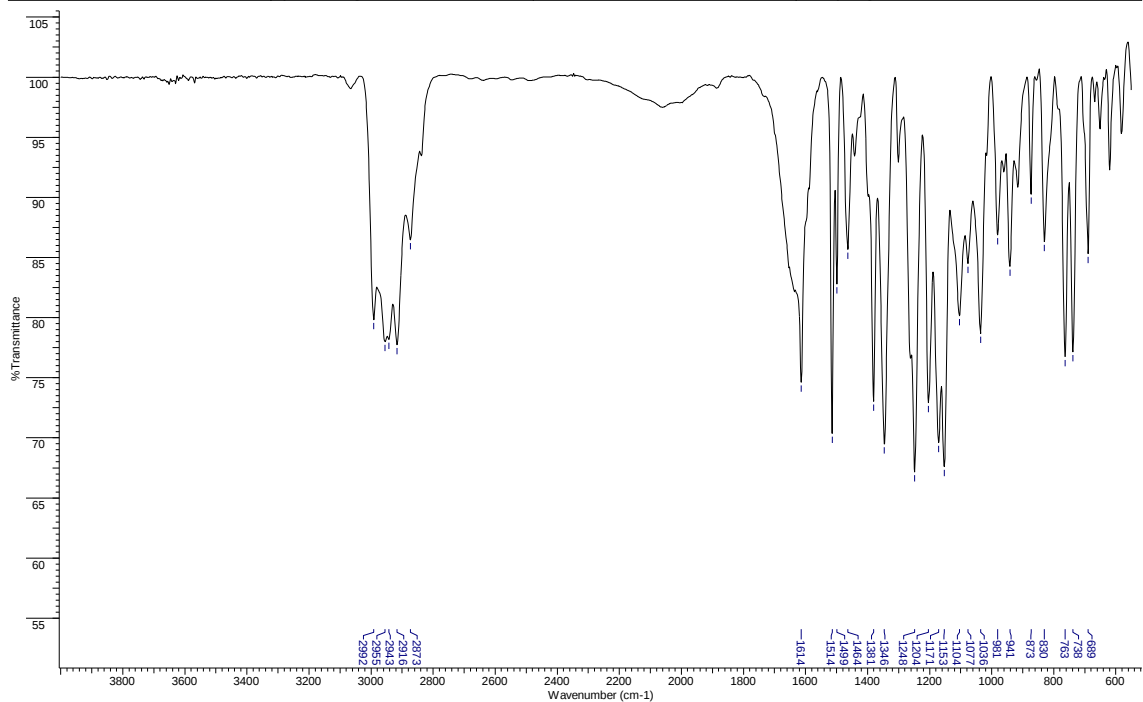


Figure S69: IR and HRMS (ESI TOF-MS) spectra of compound **10**.

Copies of ^1H and ^{13}C NMR, IR, and HRMS spectra for fragment C10–C22:

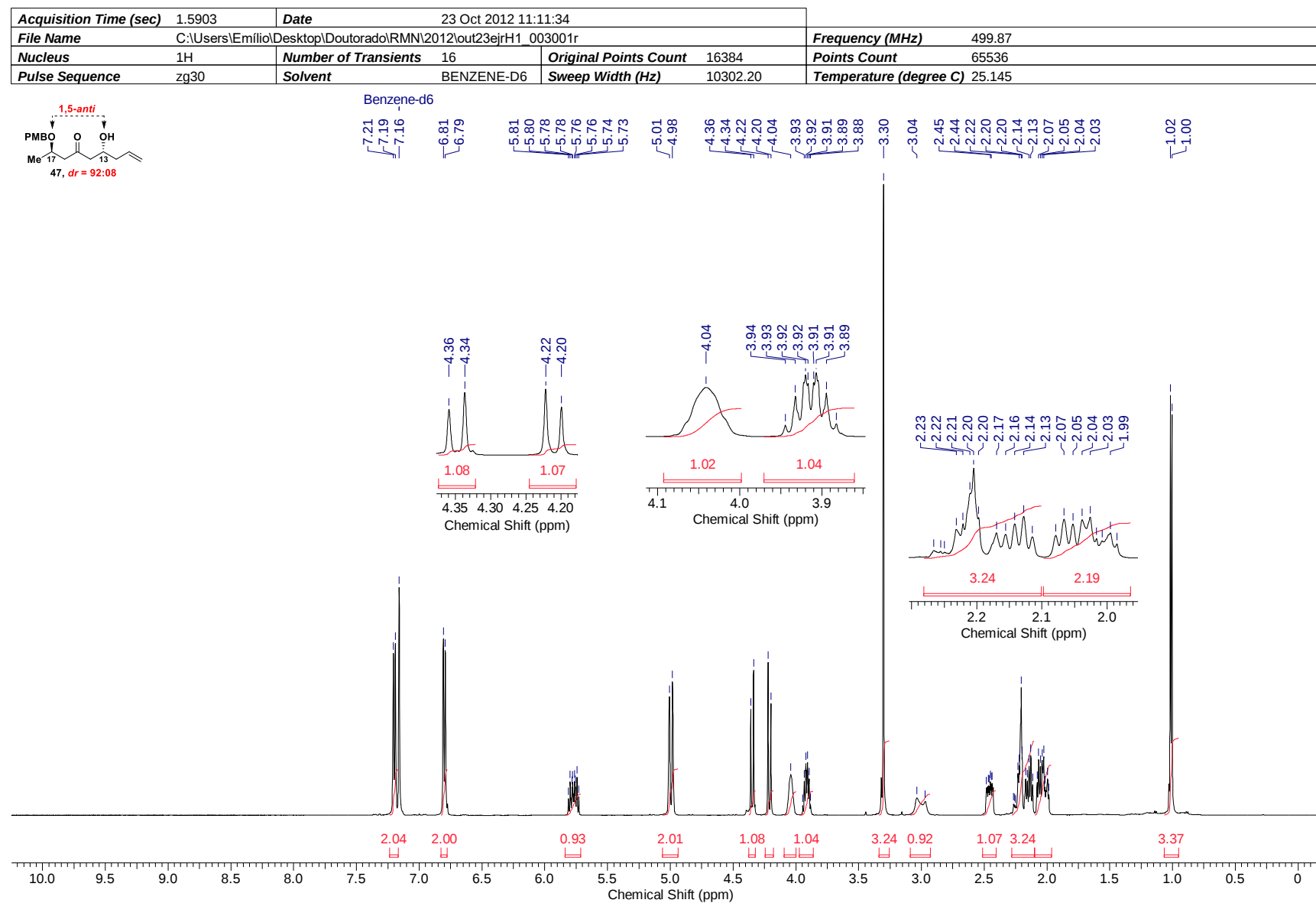


Figure S70: ^1H NMR spectrum of compound 47 (500 MHz; C_6D_6).

Acquisition Time (sec)	0.4981	Comment	EJR080-P C6D6 500MHz C13 SEM NOE	Date	23 Oct 2012 07:05:08
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out22ejh2_002001r			Frequency (MHz)	125.69
Nucleus	13C	Number of Transients	1666	Original Points Count	16384
Pulse Sequence	zgpg	Solvent	BENZENE-D6	Sweep Width (Hz)	32894.74
				Points Count	32768
				Temperature (degree C)	25.136

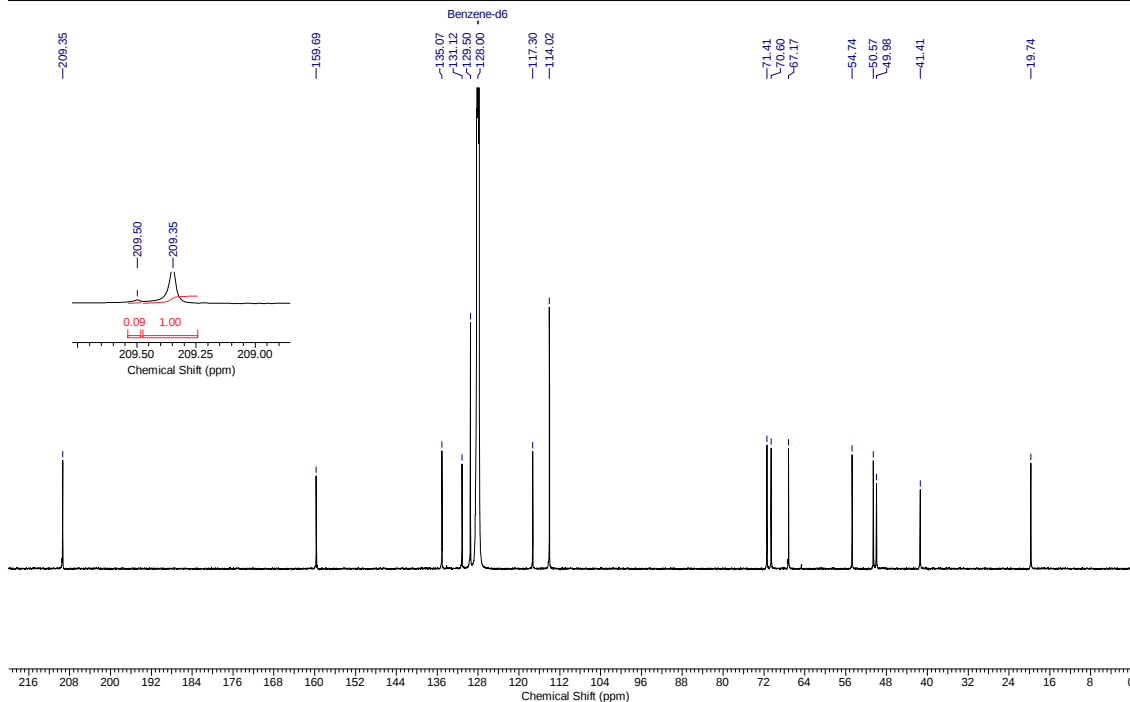


Figure S71: ^{13}C NMR spectrum of compound **47** (125 MHz; C_6D_6).

Acquisition Time (sec)	0.5505	Date	23 Oct 2012 10:55:50	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out23ejh1_002001r			Points Count	32768
Nucleus	13C	Number of Transients	790	Original Points Count	16384
Pulse Sequence	dept135	Solvent	BENZENE-D6	Sweep Width (Hz)	29761.90
				Temperature (degree C)	25.146

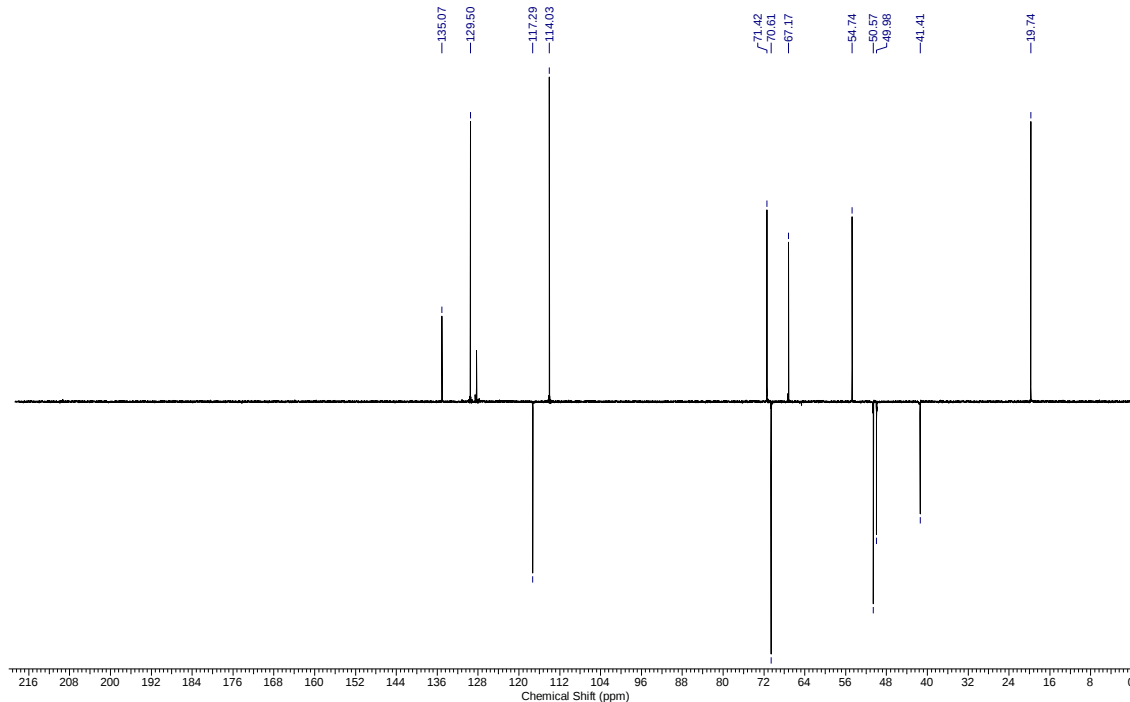


Figure S72: ^{13}C NMR (dept 135) spectrum of compound **47** (125 MHz; C_6D_6).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\IVEJR080P.SPC			Date Stamp	23/11/2012 06:10:00
Date	23 Nov 2012 06:11:26	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

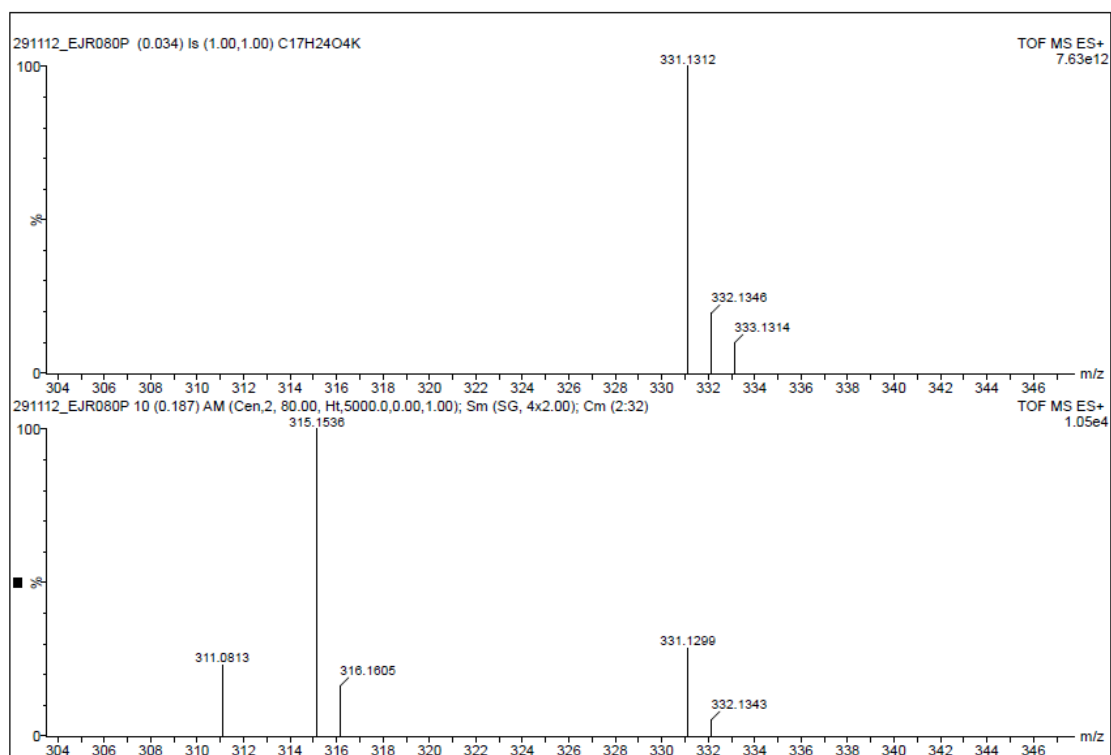
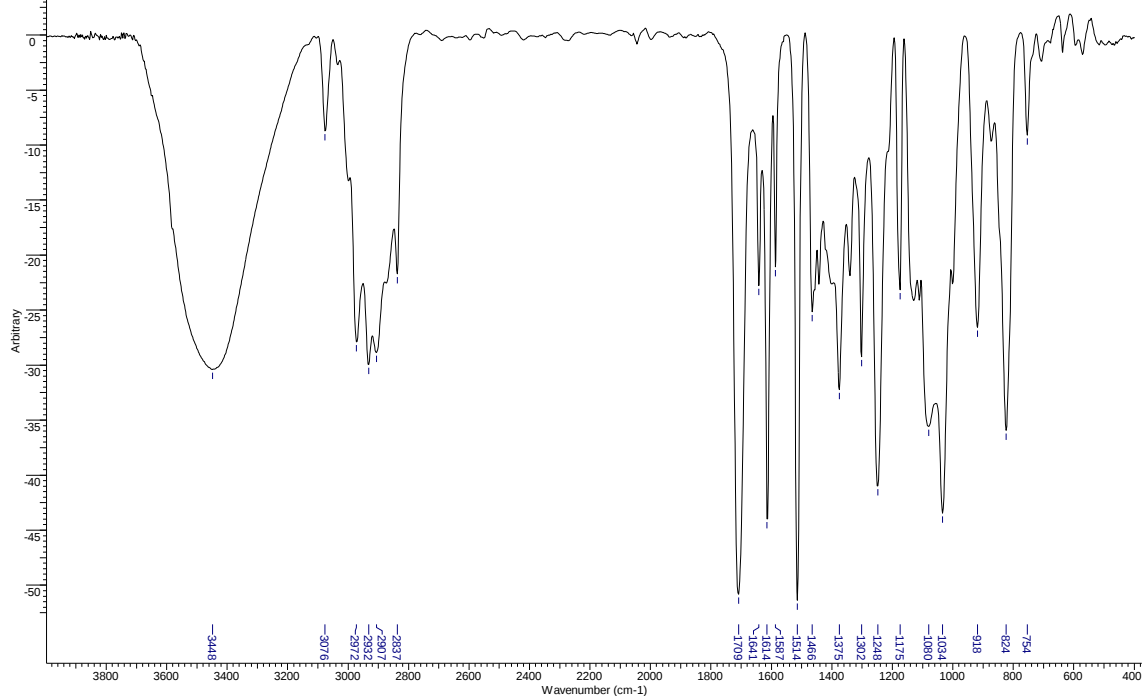


Figure S73: IR and HRMS (ESI TOF-MS) spectra of compound **47**.

Acquisition Time (sec)	1.5903	Date	26 Oct 2012 08:45:40	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\out26ejrH1_001001r	Nucleus	1H	Number of Transients	16
				Original Points Count	16384
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Points Count	65536
Temperature (degree C)	25.161			Sweep Width (Hz)	10302.20

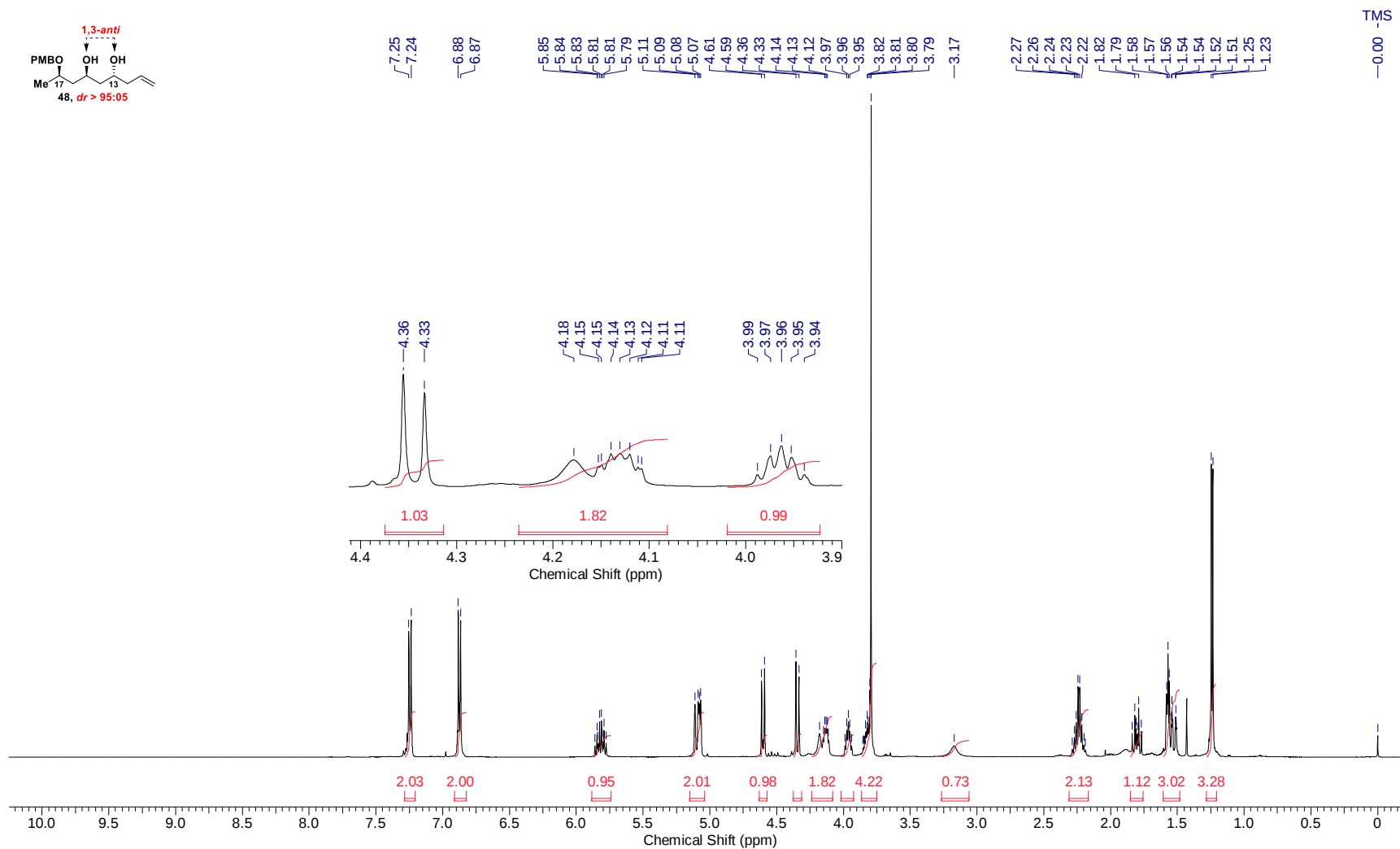


Figure S74: ¹H NMR spectrum of compound **48** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5439	Comment	Emilio EJR-081 CDC13 250 MHz out25ejrC1 13C	Date	26 Oct 2012 11:54:24
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out25ejrC1_002001r	Frequency (MHz)	62.90	Nucleus	13C
Number of Transients	13296	Original Points Count	8192	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	15060.24	Temperature (degree C)	25.160

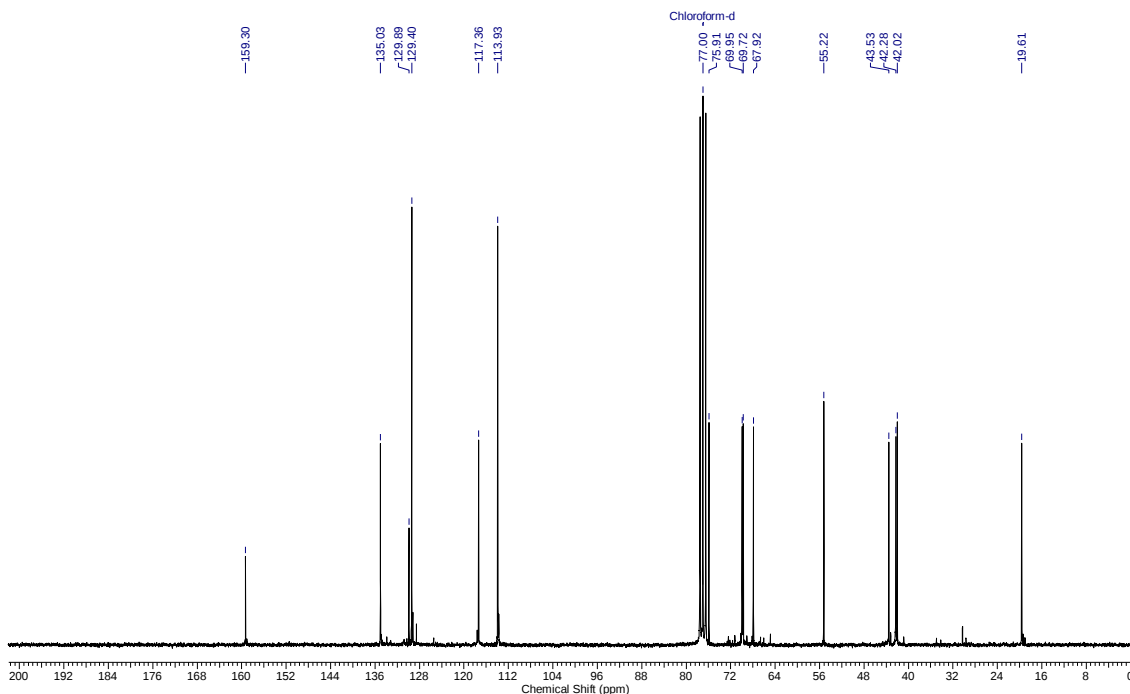


Figure S75: ^{13}C NMR spectrum of compound **48** (62.5 MHz; CDCl_3).

Acquisition Time (sec)	0.5439	Comment	Emilio EJR-081 CDC13 250 MHz out25ejrC1 C13DEPT135	Date	25 Oct 2012 22:30:24
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out25ejrC1_001000fid	Frequency (MHz)	62.90	Points Count	8192
Nucleus	13C	Number of Transients	2048	Original Points Count	8192
Pulse Sequence	dept135	Solvent	CHLOROFORM-D	Sweep Width (Hz)	15060.24
				Temperature (degree C)	25.160

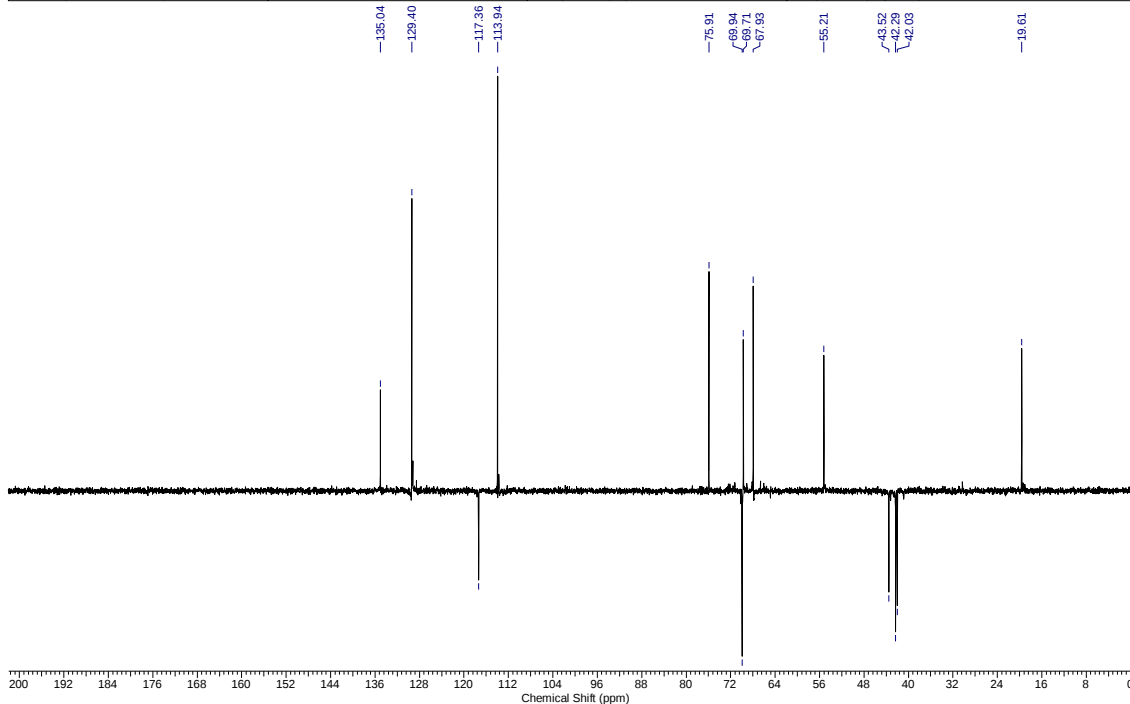


Figure S76: ^{13}C NMR (dept 135) spectrum of compound **48** (62.5 MHz; CDCl_3).

Comment	KBr Helder	File Name	C:\USER\SEMILIO\DESKTOP\OUTORADO\VEJR081.SPC			Date Stamp	23/11/2012 04:13:00
Date	23 Nov 2012 04:14:16	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

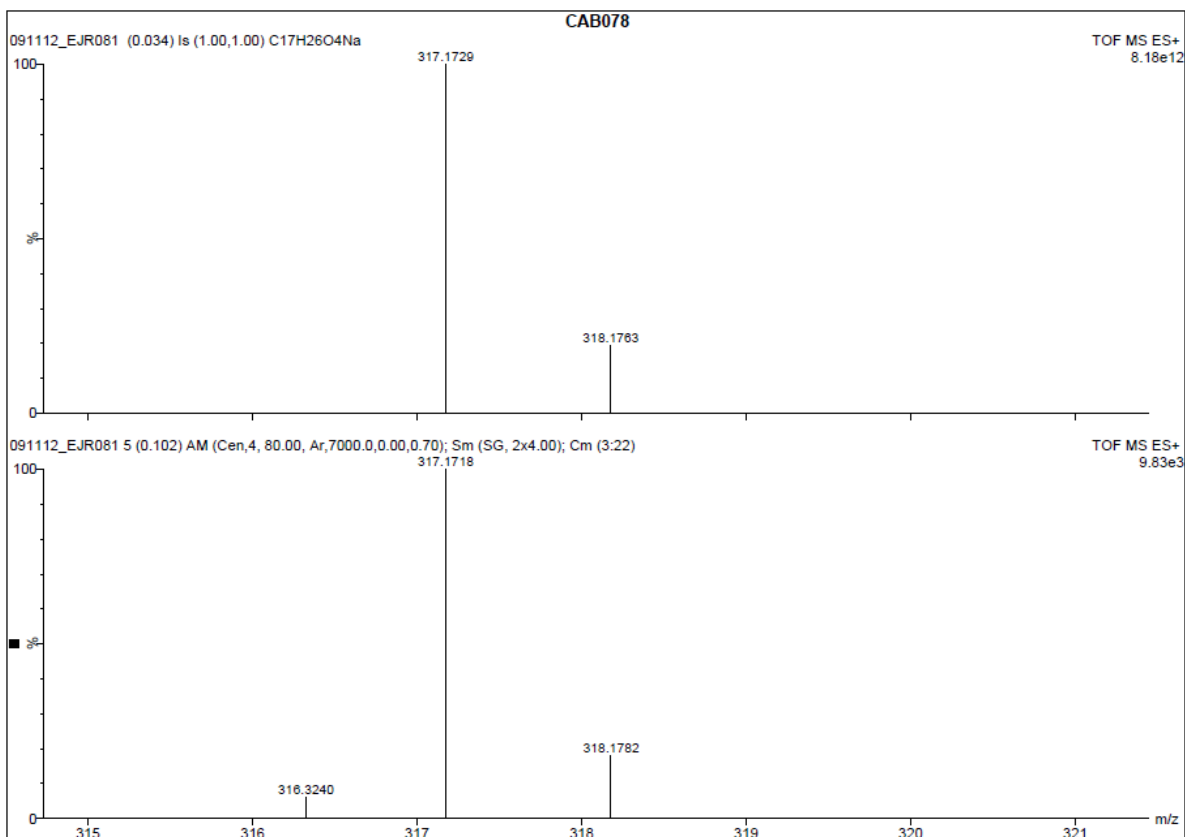
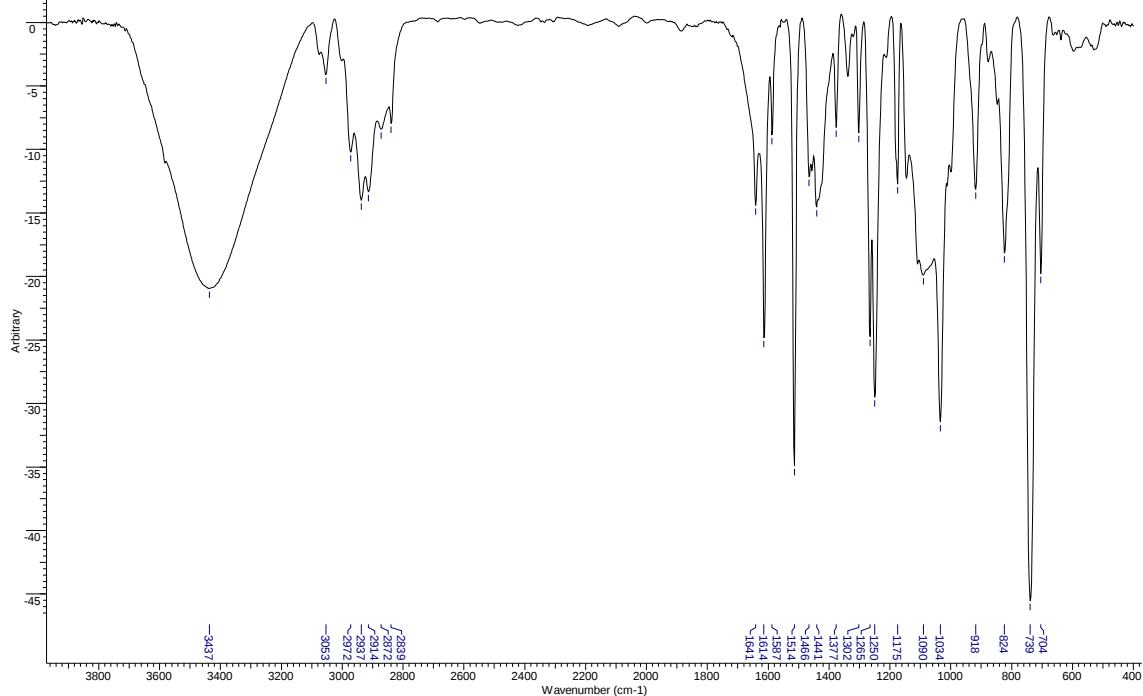


Figure S77: IR and HRMS (ESI TOF-MS) spectra of compound 48.

Acquisition Time (sec)	1.5903	Date	26 Oct 2012 13:26:02	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\out26ejrH2_001001r	Nucleus	¹ H	Number of Transients	16
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Original Points Count	16384
Temperature (degree C)	25.139			Points Count	65536
				Sweep Width (Hz)	10302.20

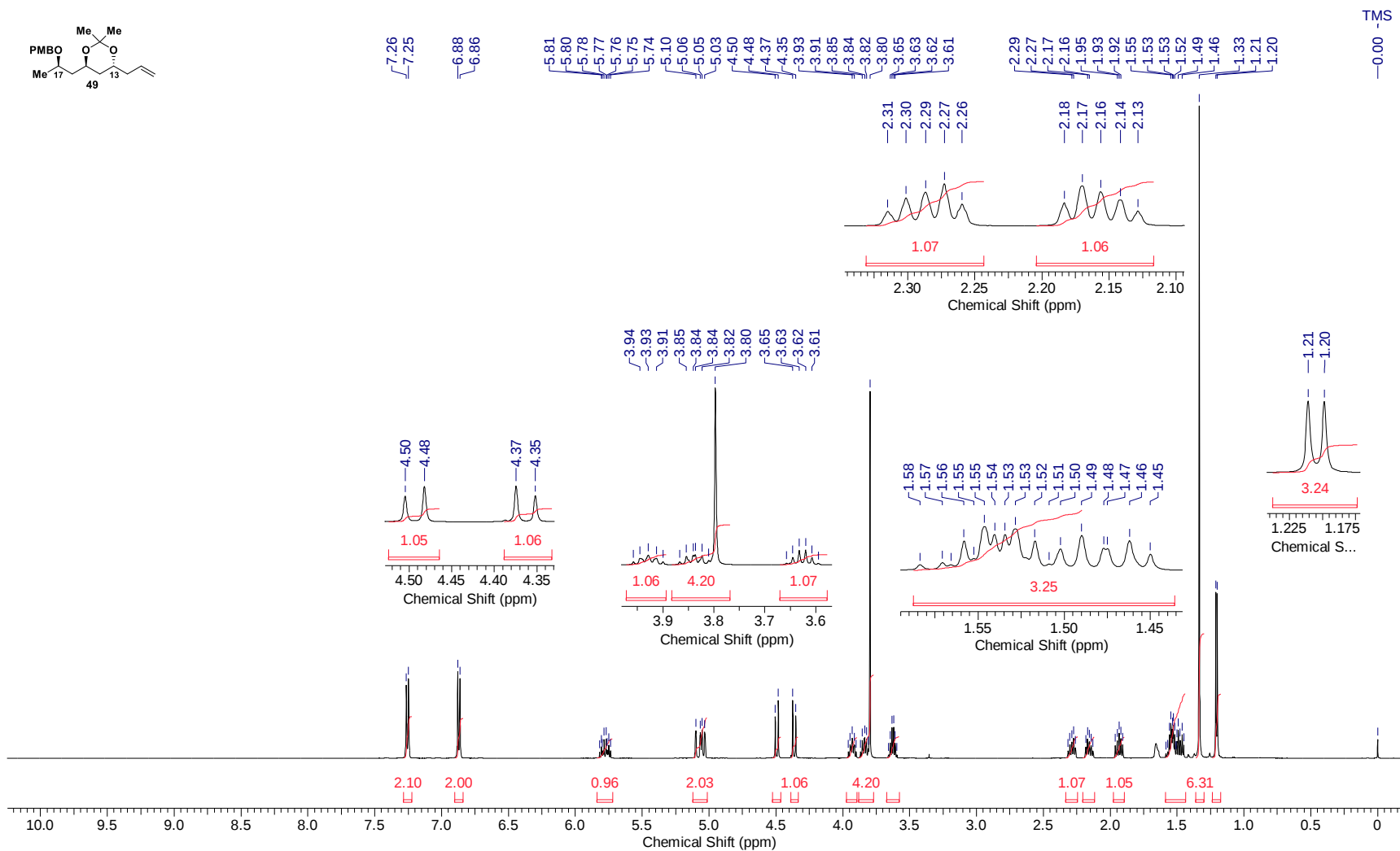


Figure S78: ¹H NMR spectrum of compound **49** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.4981	Date	26 Oct 2012 13:49:08	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out26ejrH2_002001r	Number of Transients	512	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.142				

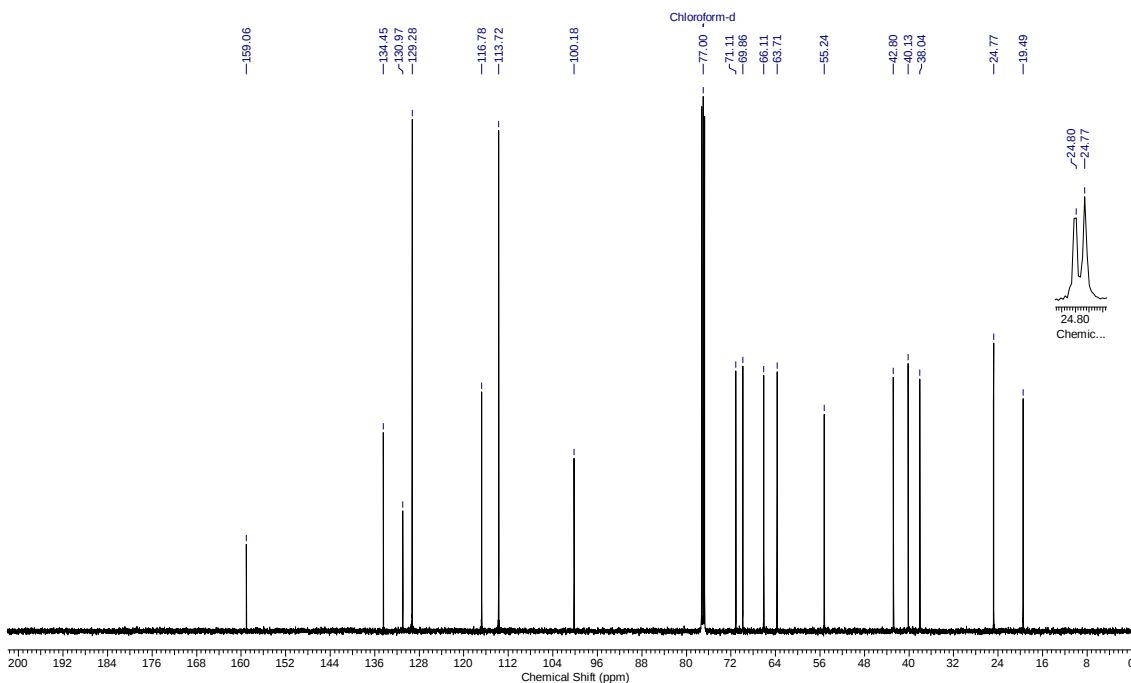


Figure S79: ¹³C NMR spectrum of compound **49** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Date	26 Oct 2012 13:55:04	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out26ejrH2_003001r	Number of Transients	128	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	29761.90
Pulse Sequence	depi135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.157				

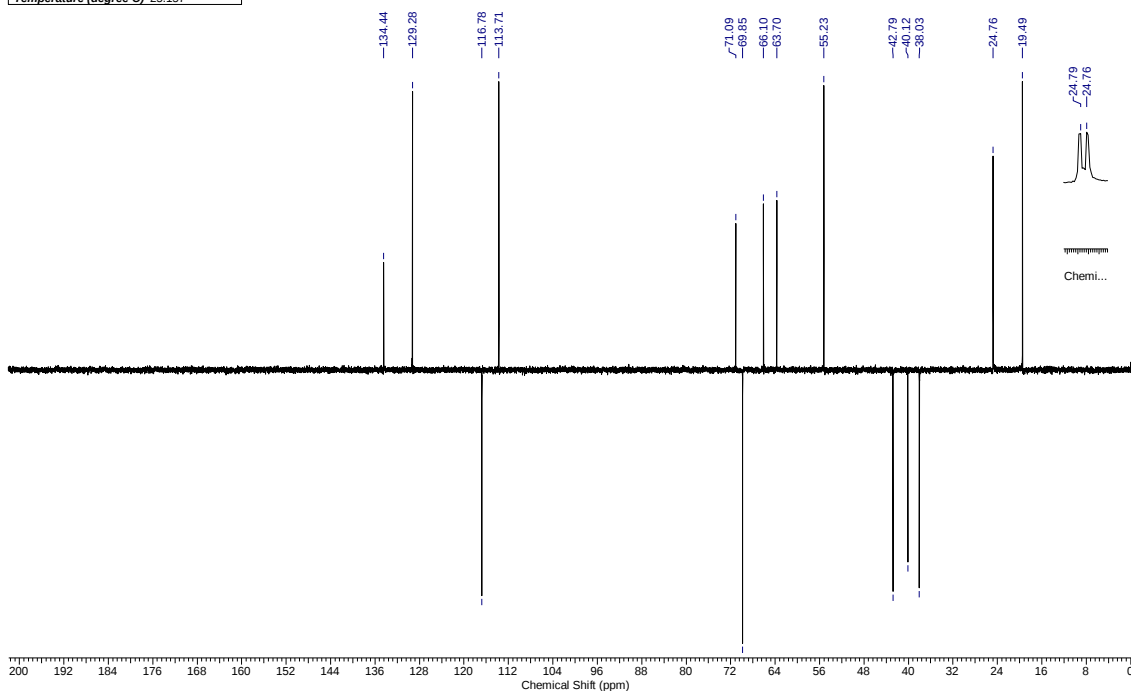


Figure S80: ¹³C NMR (dept 135) spectrum of compound **49** (125 MHz; CDCl₃).

Comment	KBr Helder	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\VEJR082P.SPC			Date Stamp	23/11/2012 04:19:00
Date	23 Nov 2012 04:20:04	Technique	Infrared	Instrument	MB	Spectral Region	IR
X Axis	Wavenumber (cm ⁻¹)	Y Axis	Arbitrary	Spectrum Range 399.2356 - 4000.0706			
Points Count	1868	Data Spacing	1.9287				

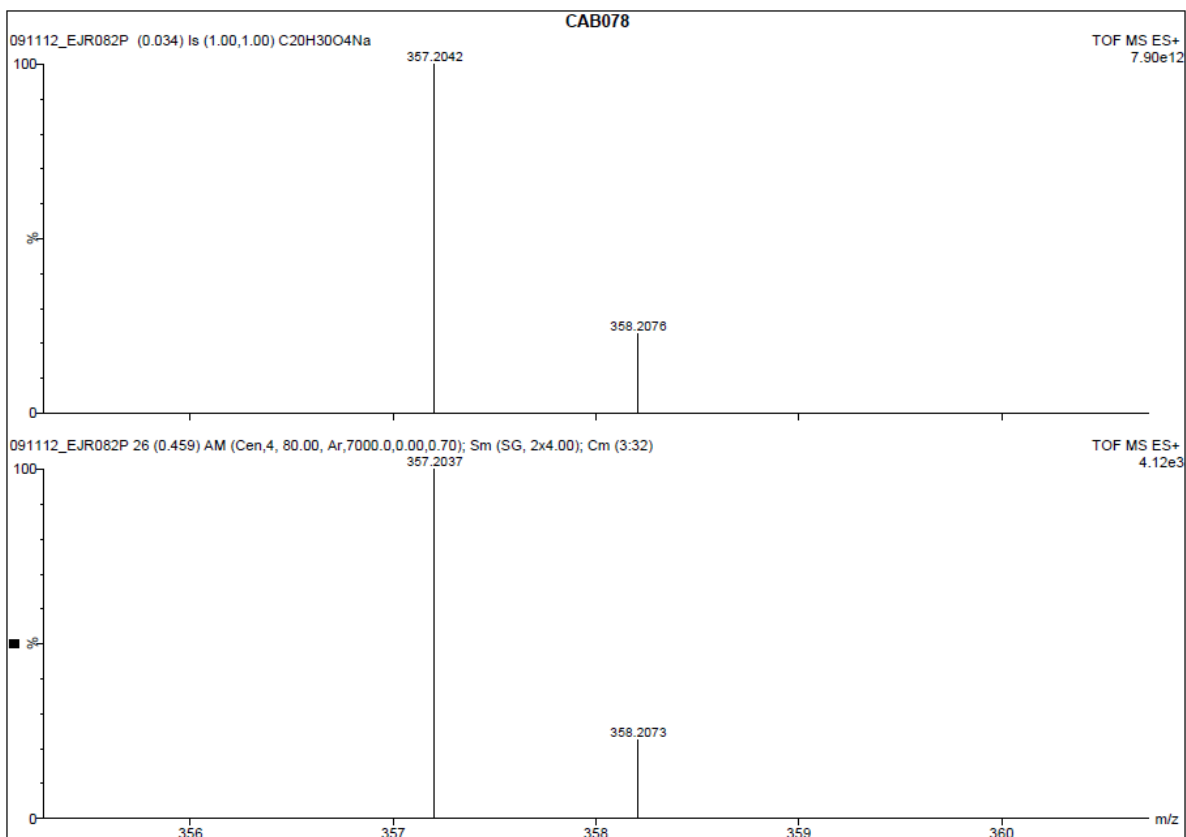
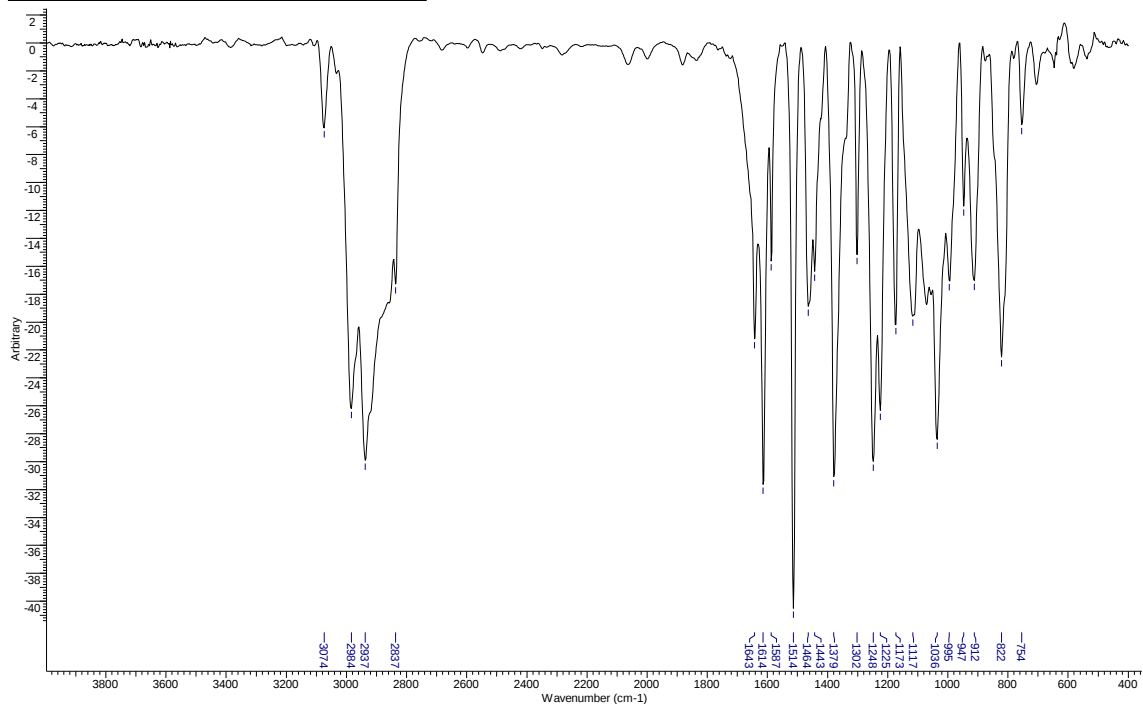


Figure S81: IR and HRMS (ESI TOF-MS) spectra of compound 49.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR 083P - CDCl ₃ - Avance 500 MHz - out31ejrH1 - 1H	Date	31 Oct 2012 10:26:08
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\out31ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	1H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.143

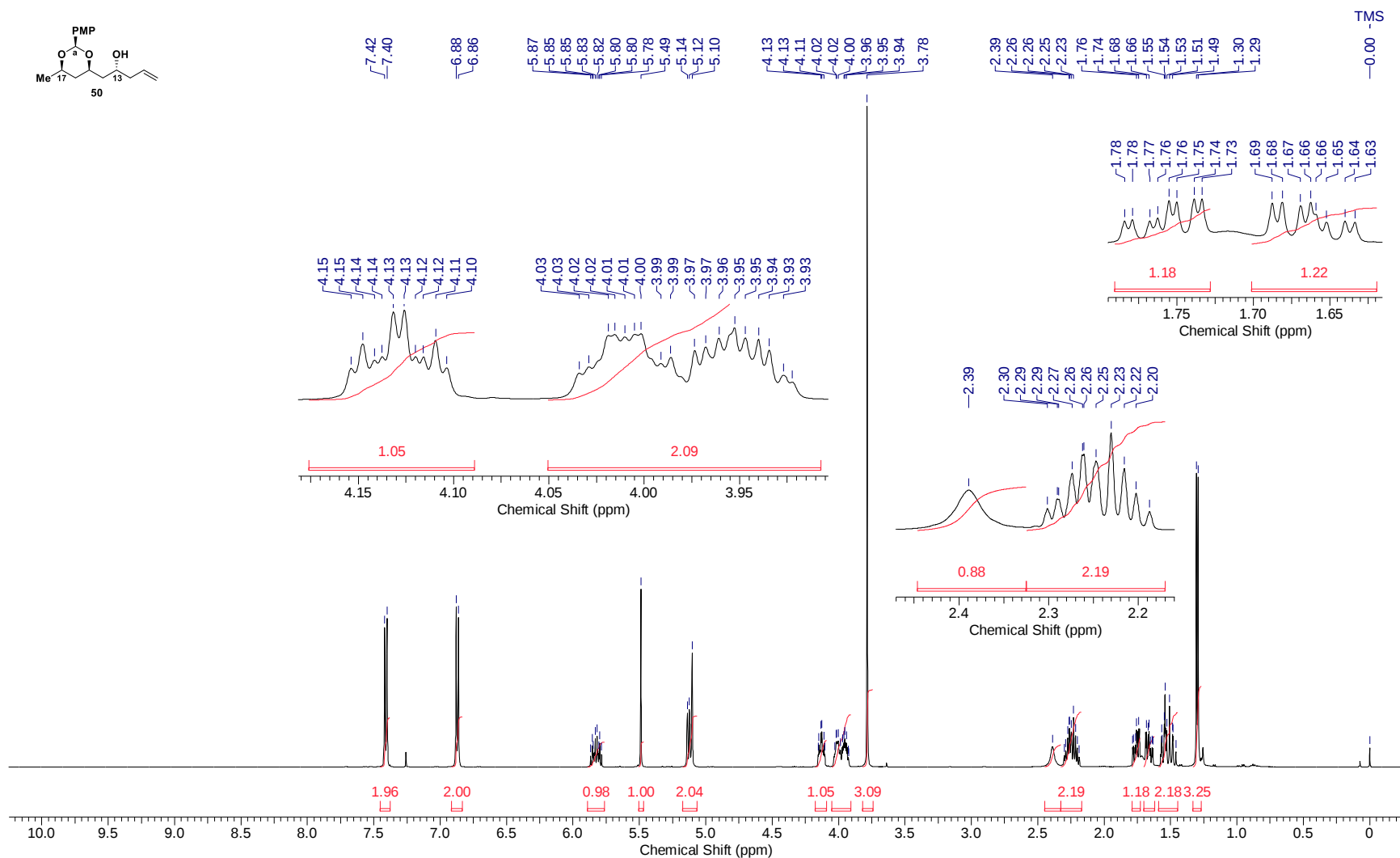


Figure S82: ¹H NMR spectrum of compound **50** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 083P - CDCl ₃ - Avance 500 MHz - out31ejrH1 - 13C	Date	31 Oct 2012 10:15:58
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out31ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	512	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.149

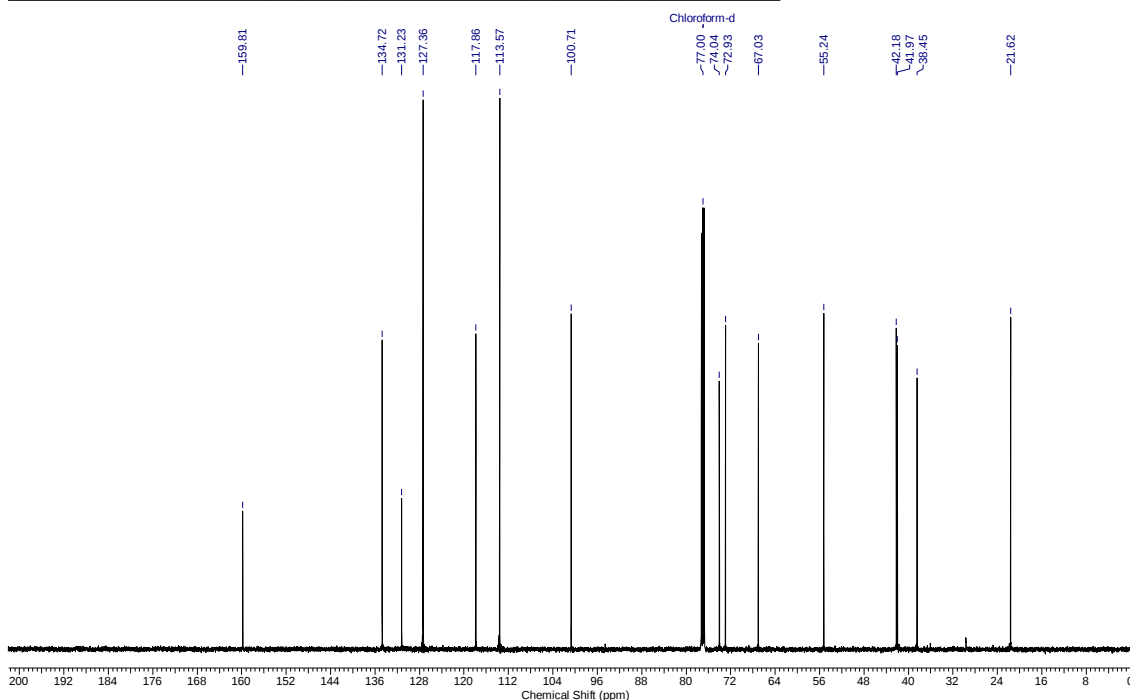


Figure S83: ^{13}C NMR spectrum of compound **50** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 083P - CDCl ₃ - Avance 500 MHz - out31ejrH1 - DEPT 135	Date	31 Oct 2012 10:23:44
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2012\out31ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	256	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.138

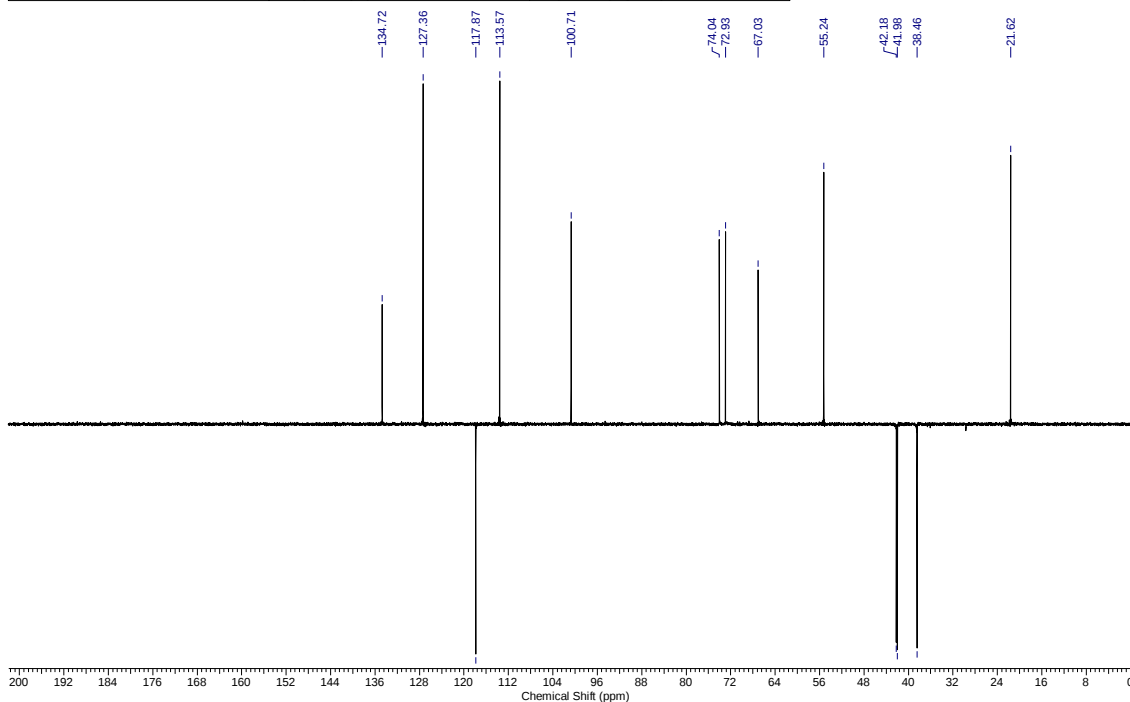


Figure S84: ^{13}C NMR (dept 135) spectrum of compound **50** (125 MHz; CDCl_3).

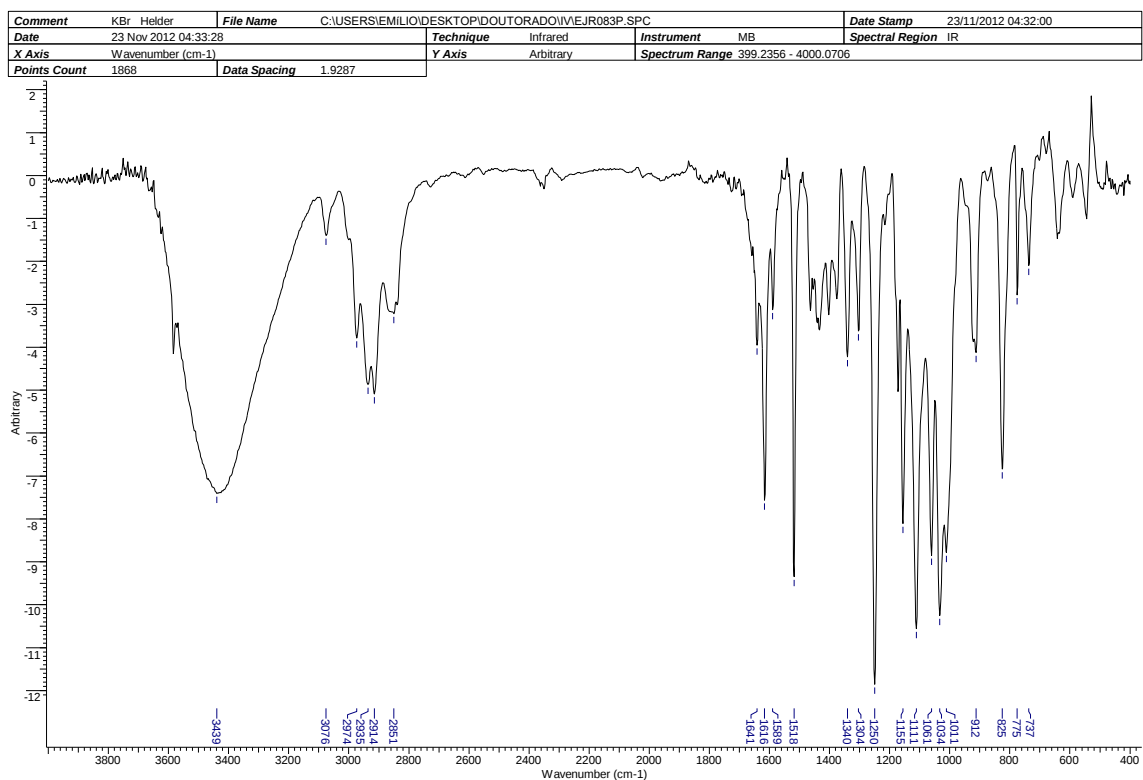


Figure S85: IR spectrum of compound 50.

Emílio - EJR 083P - CDCl₃ - Avance 500 MHz - out31ejrH1 - COSY

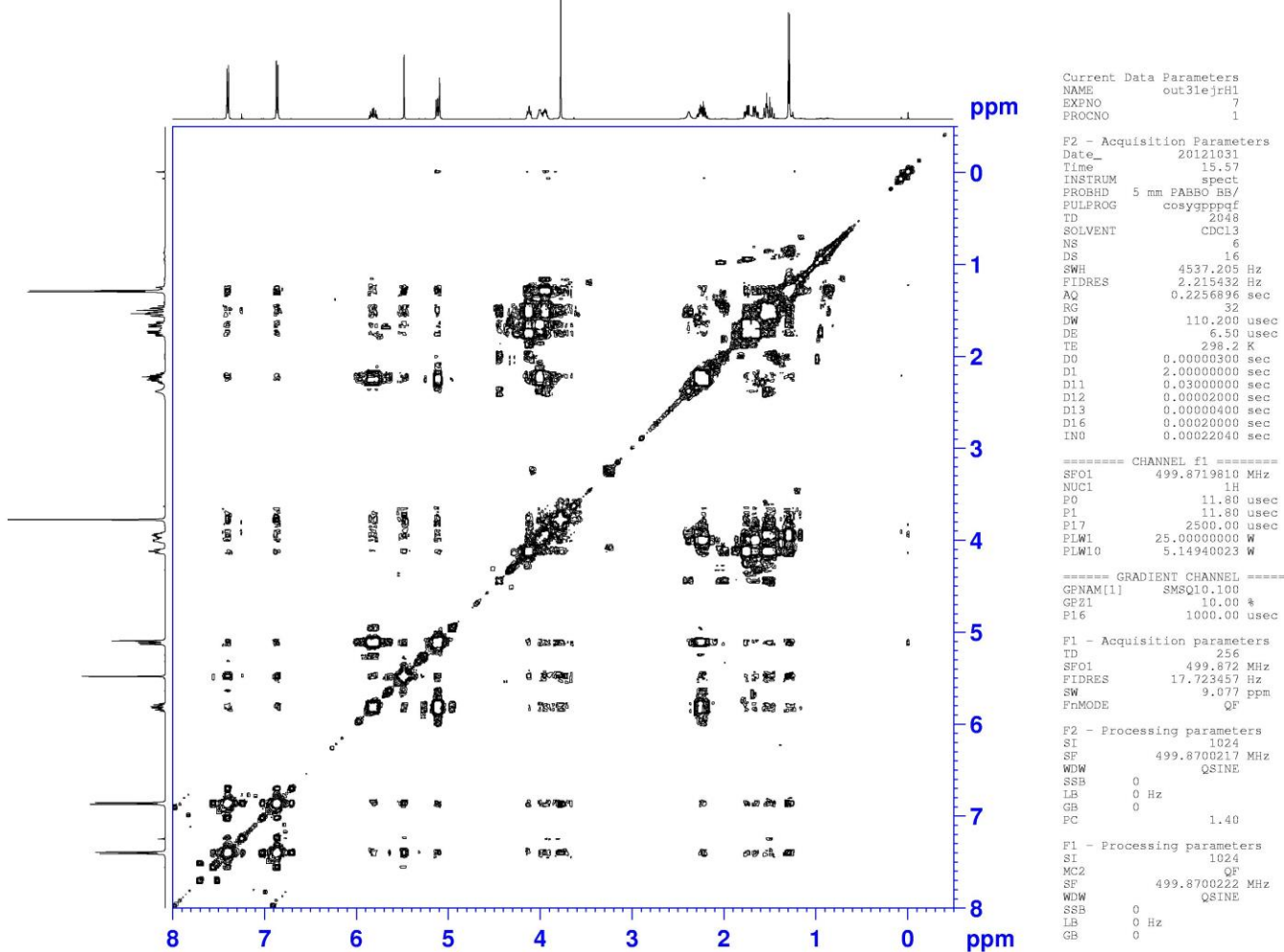


Figure S86: COSY contour map of compound **50** (500 MHz; CDCl₃).

Emílio - EJR 083P - CDCl₃ - Avance 500 MHz - out31ejrH1 - 1H - HSQC

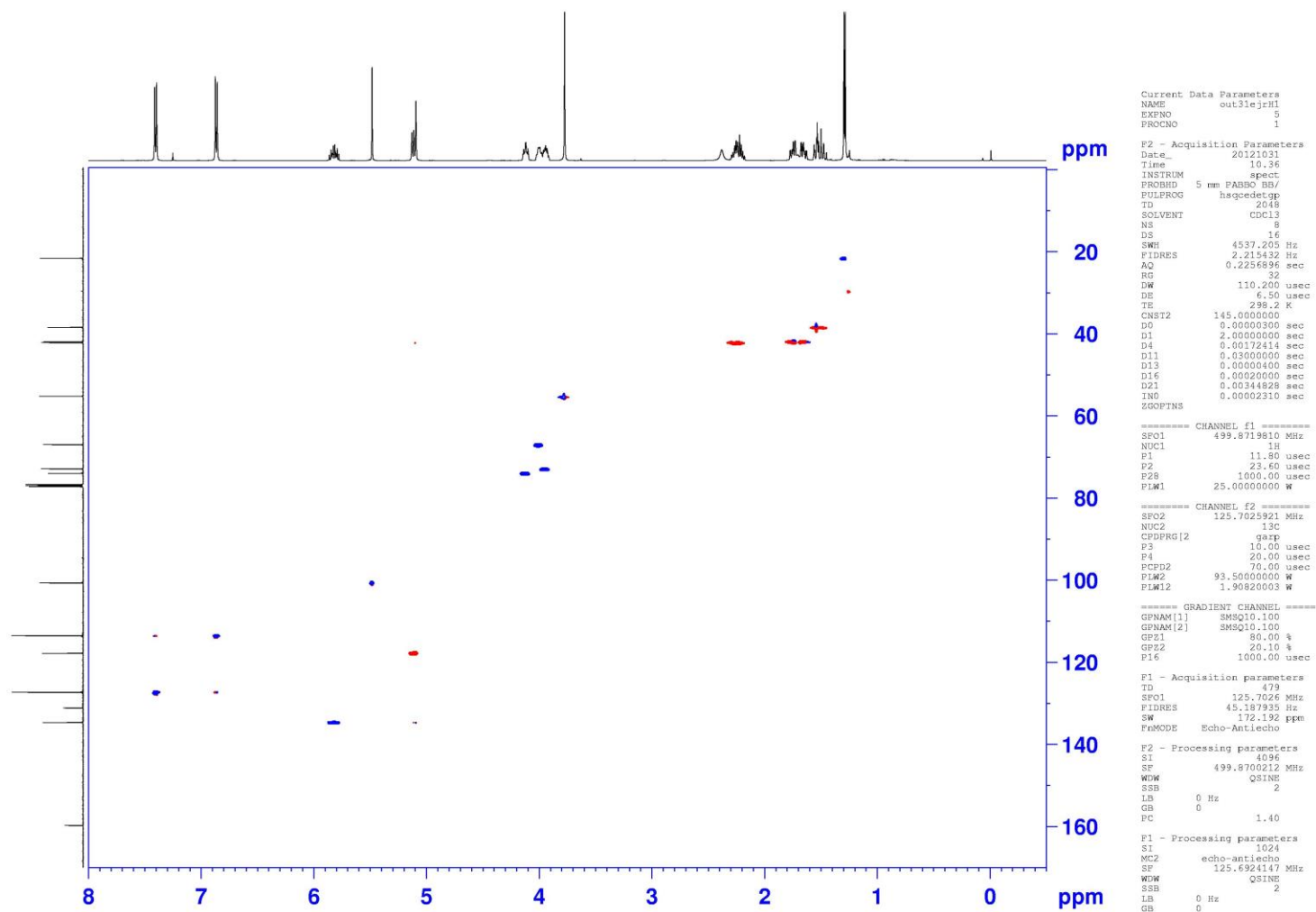


Figure S87: HSQC contour map of compound **50**.

Emílio - EJR 083P - CDCl₃ - Avance 500 MHz - out31ejrH1 - HMBC

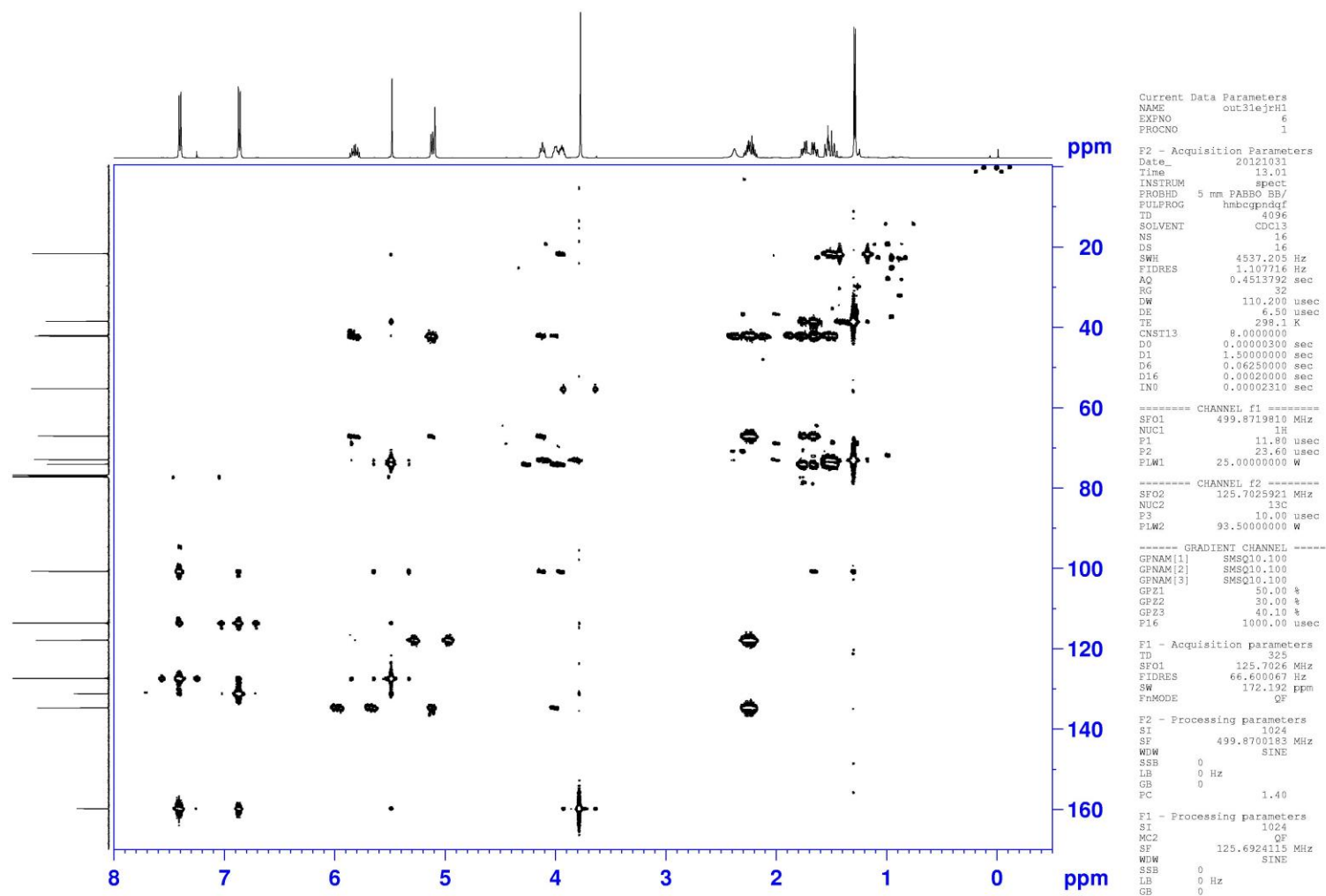


Figure S88: HMBC contour map of compound **50**.

Acquisition Time (sec)	4.6137	Date	01 Nov 2012 07:48:12				
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2012\nov01\ejrH1_004001r					Frequency (MHz)	400.18
Nucleus	1H	Number of Transients	128	Original Points Count	16384	Points Count	32768
Pulse Sequence	selnoggp	Solvent	CHLOROFORM-D			Sweep Width (Hz)	3551.14
Temperature (degree C)	23.060						

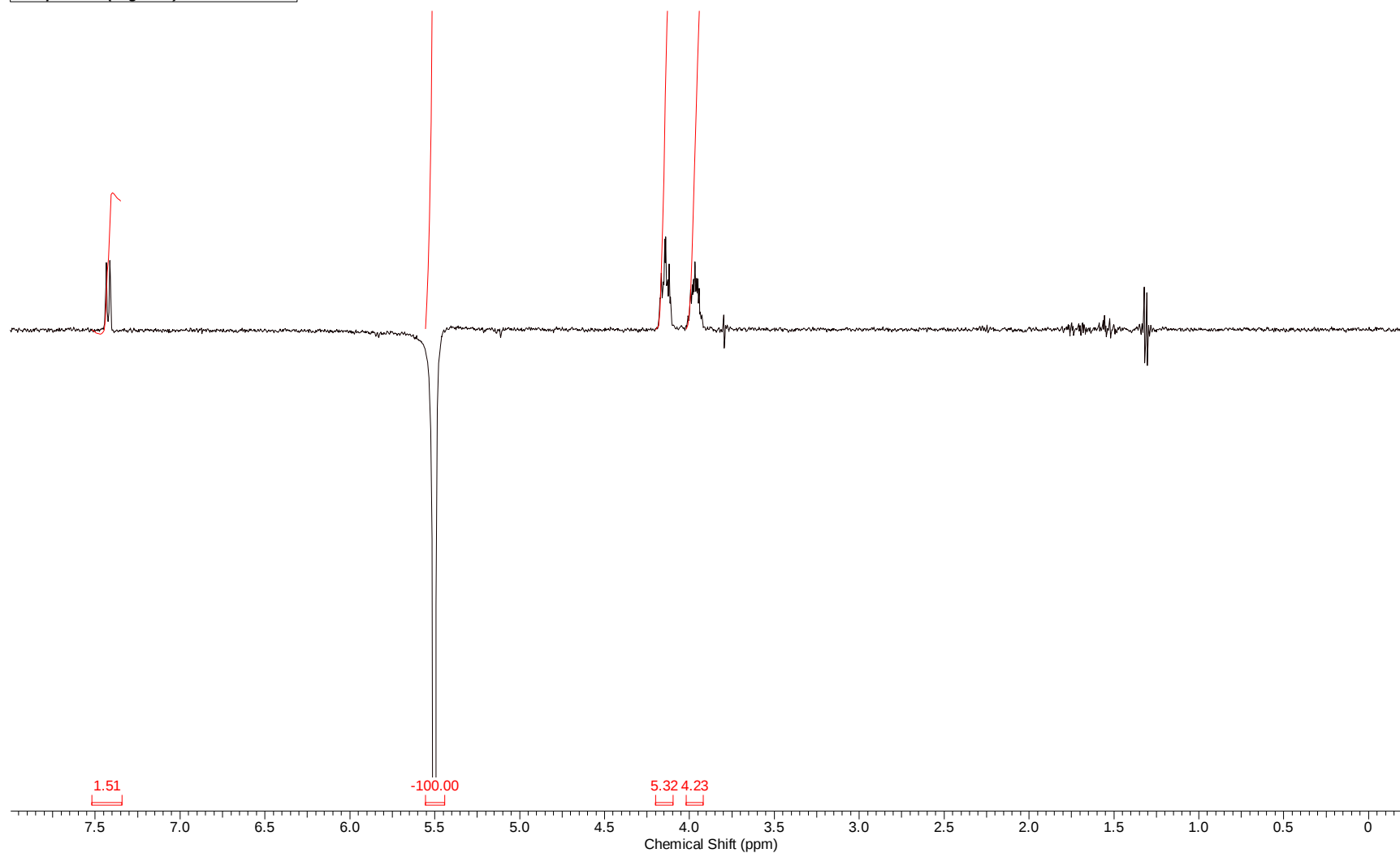


Figure S89: ¹H NMR (1D selective NOE) spectrum of compound **50** (400 MHz; CDCl₃).

Acquisition Time (sec)	5.4657	Comment	Emilio EJR-115P CDCl ₃ 250 MHz mar07ejrH1	Date	07 Mar 2013 21:27:32
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\mar07ejrH1_001001r			Frequency (MHz)	250.13
Nucleus	¹ H	Number of Transients	7	Original Points Count	16384
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Sweep Width (Hz)	2997.60
				Points Count	32768
				Temperature (degree C)	25.160

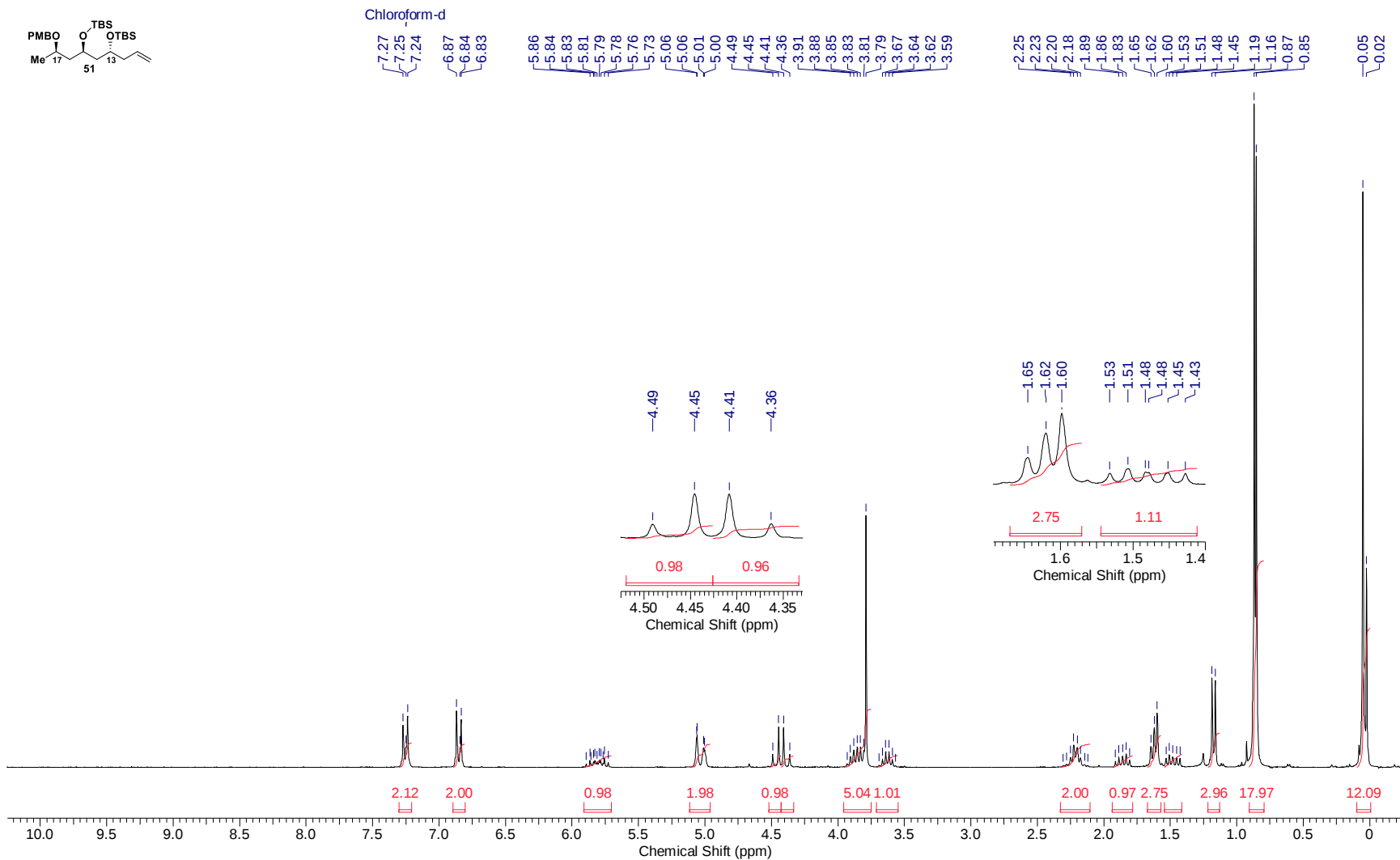


Figure S90: ¹H NMR spectrum of compound **51** (250 MHz; CDCl₃).

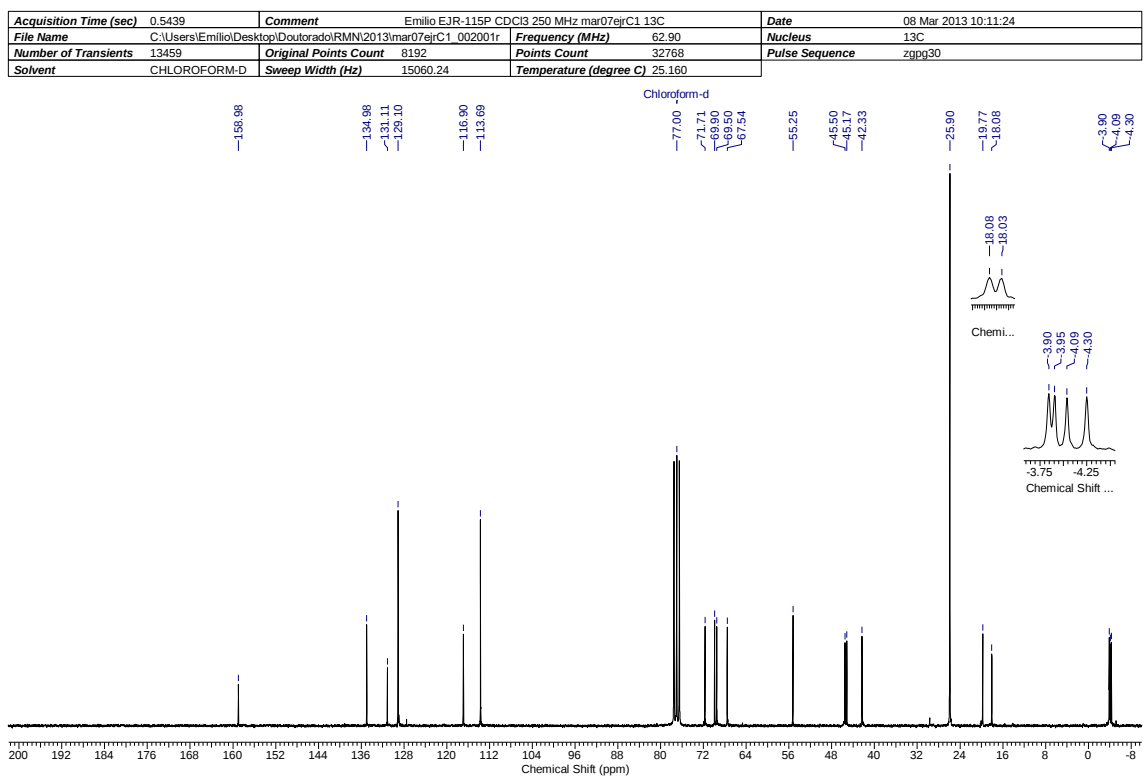


Figure S91: ^{13}C NMR spectrum of compound **51** (62.5 MHz; CDCl_3).

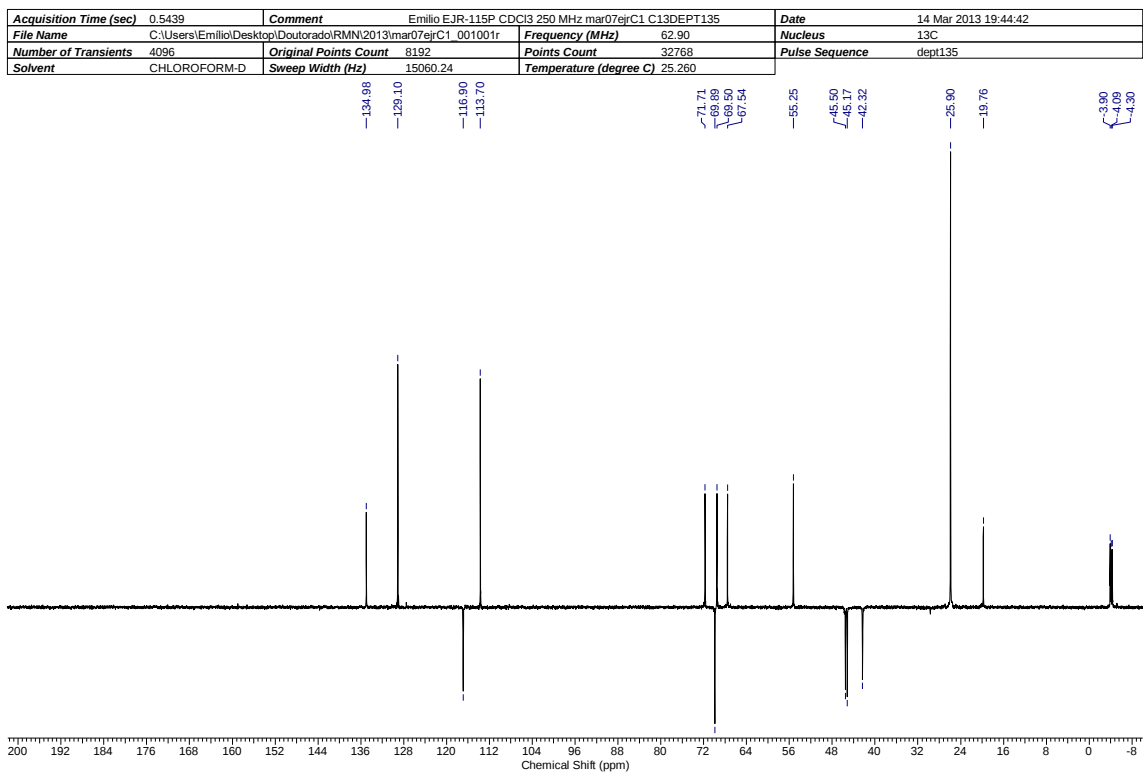


Figure S92: ^{13}C NMR (dept 135) spectrum of compound **51** (62.5 MHz; CDCl_3).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 008 por LQOS data sexta-feira, agosto 16 2013	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVEJR116P_1.SP	Date Stamp	frí aug 16 15:52:48 2013 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	frí aug 16 15:53:51 2013 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		

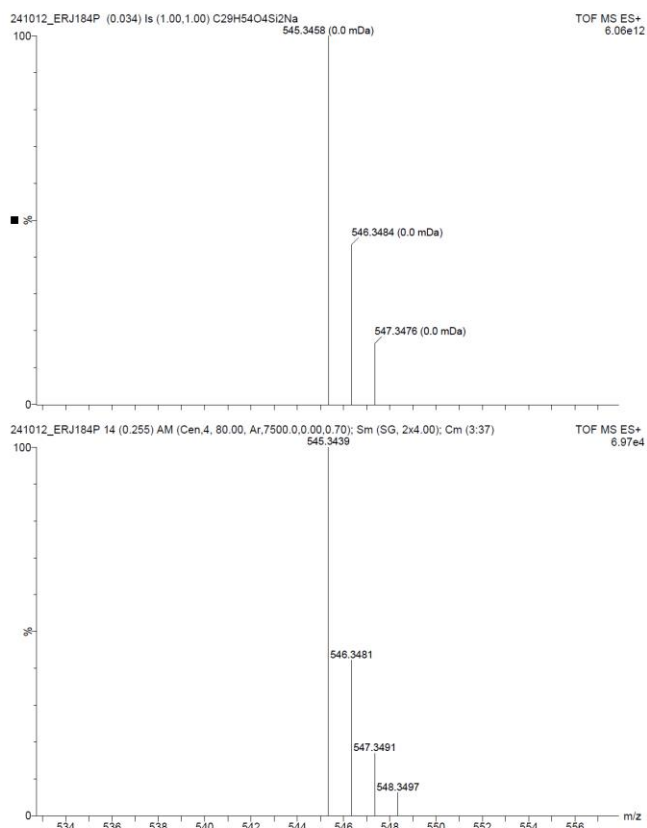
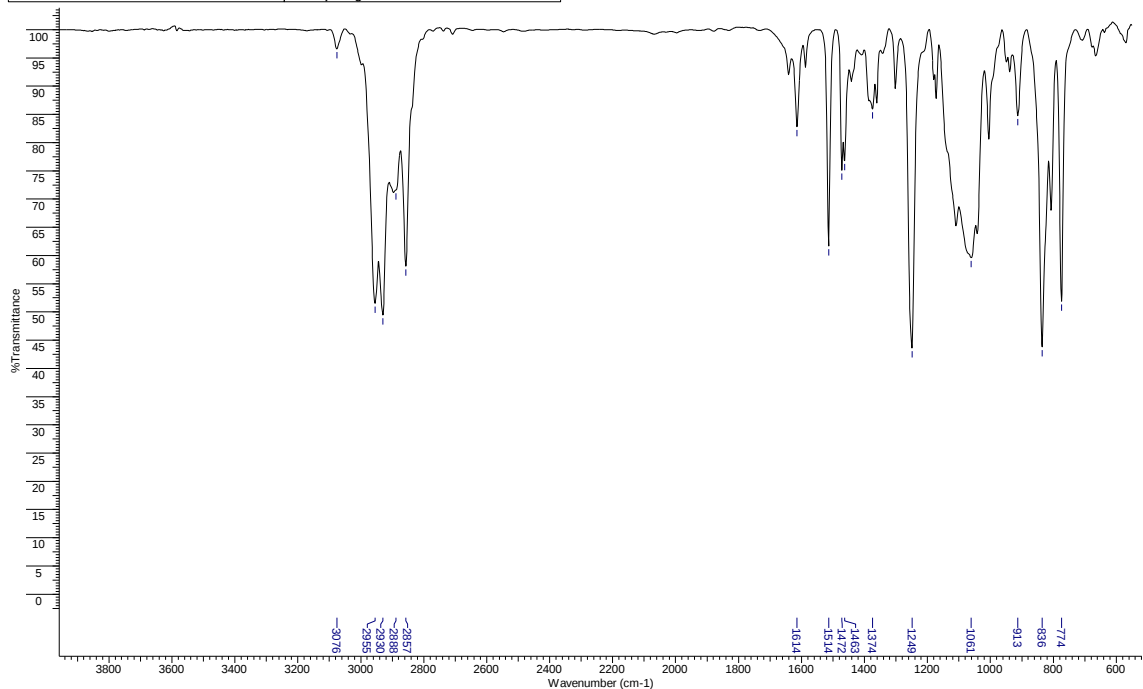


Figure S93: IR and HRMS (ESI TOF-MS) spectra of compound **51**.

Acquisition Time (sec)	0.4981	Date	11 Mar 2013 15:23:30	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\mar11\ejrC1_001001r	Number of Transients	256	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.163				

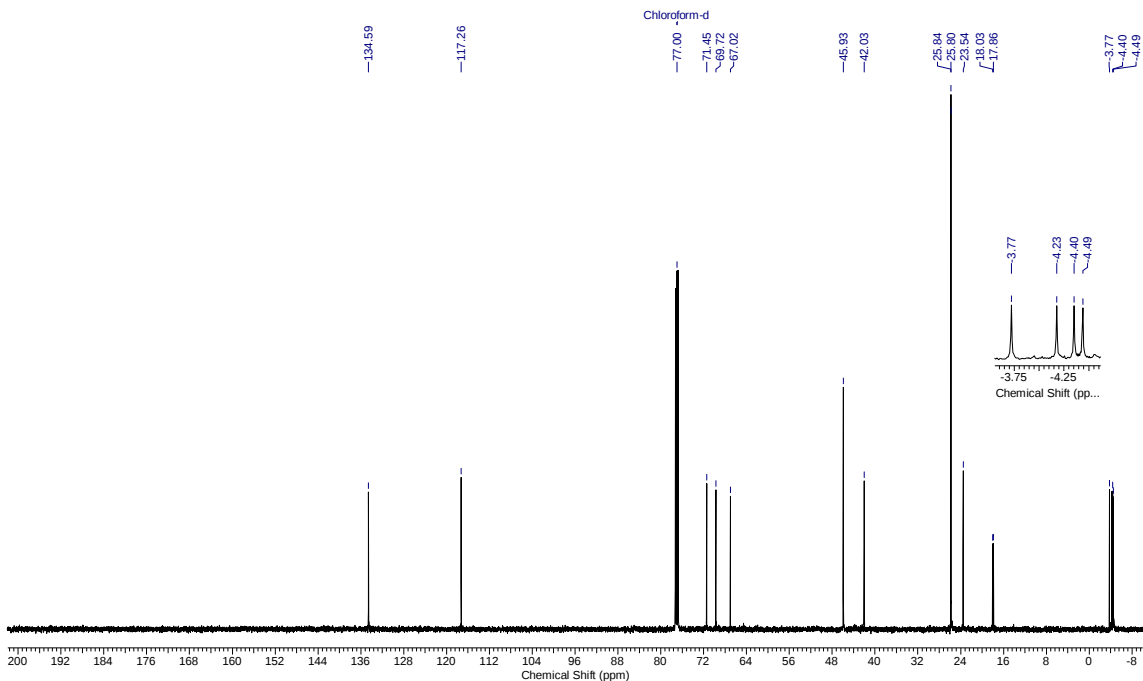


Figure S95: ¹³C NMR spectrum of compound **52** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Date	11 Mar 2013 15:23:34	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\mar11\ejrC1_002001r	Number of Transients	128	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	29761.90
Pulse Sequence	dept135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.150				

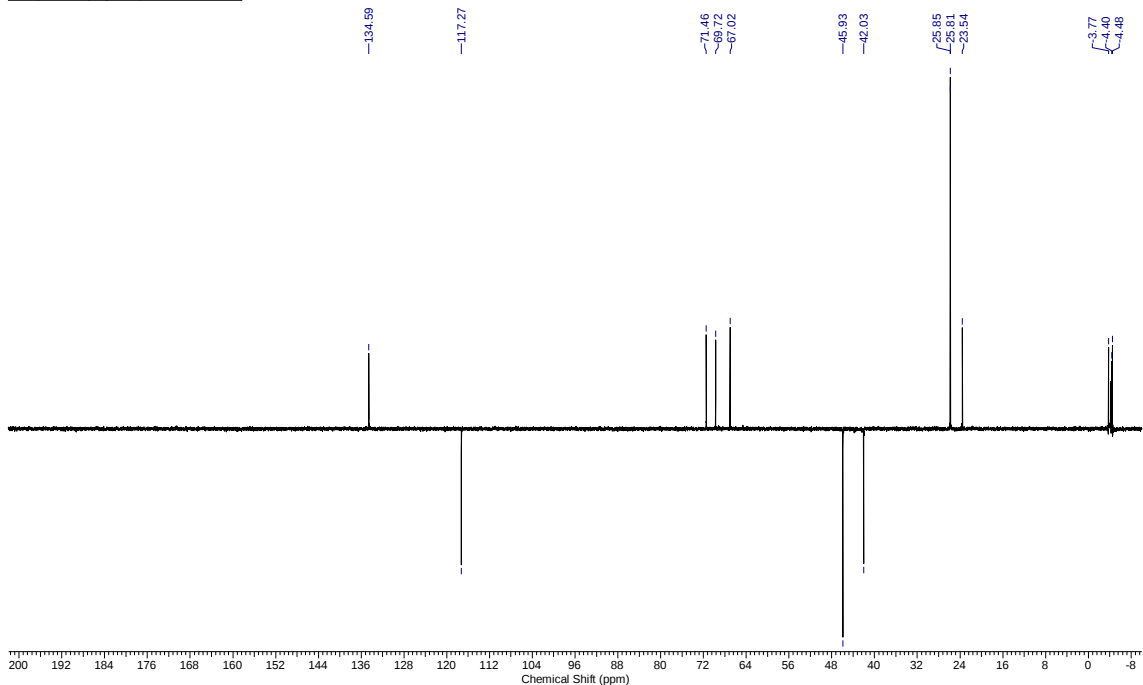


Figure S96: ¹³C NMR (dept 135) spectrum of compound **52** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 009 por LQOS data sexta-feira, agosto 16 2013	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOCTORADO\IVEJR116P_1.SP	Date Stamp	fri aug 16 16:00:35 2013 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	fri aug 16 16:01:17 2013 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		

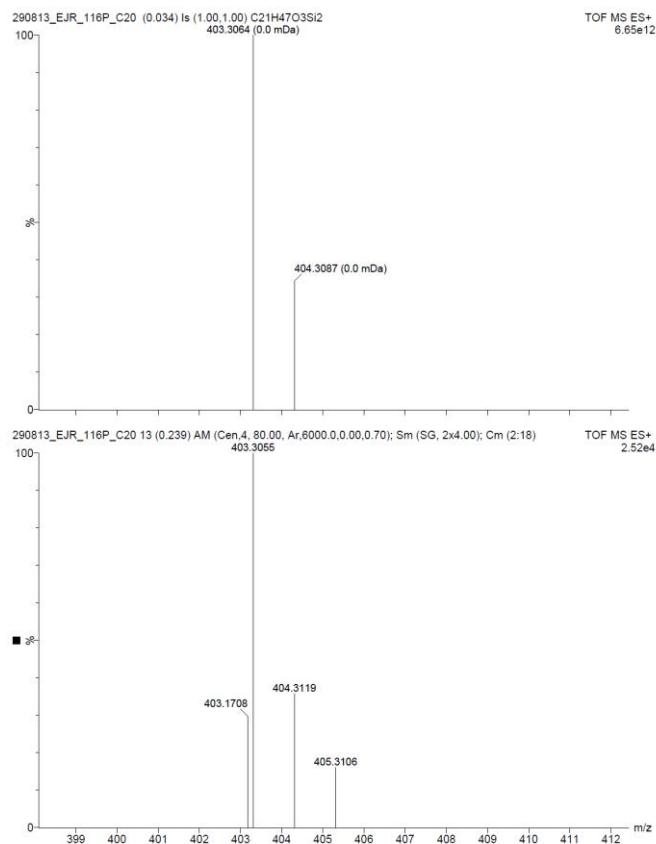
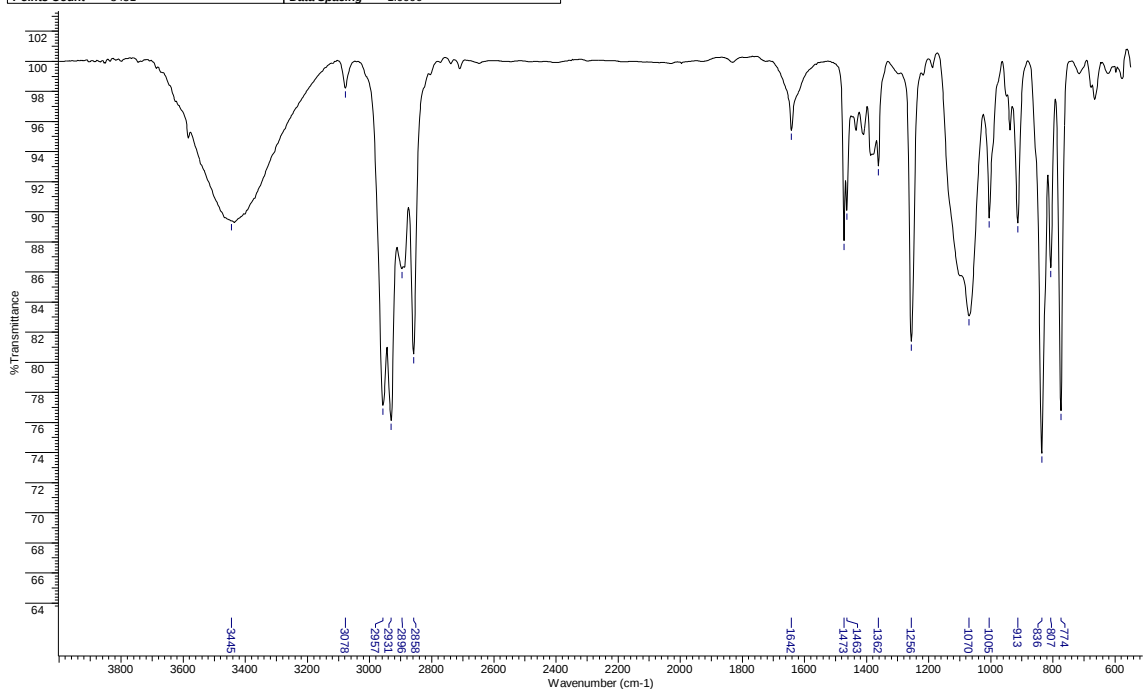


Figure S97: IR and HRMS (ESI TOF-MS) spectra of compound 52.

Acquisition Time (sec)	1.5903	Date	12 Mar 2013 13:10:38	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\mar12\ejrH1_001001r	Number of Transients	16	Original Points Count	16384
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Temperature (degree C)	25.144	Sweep Width (Hz)	10302.20

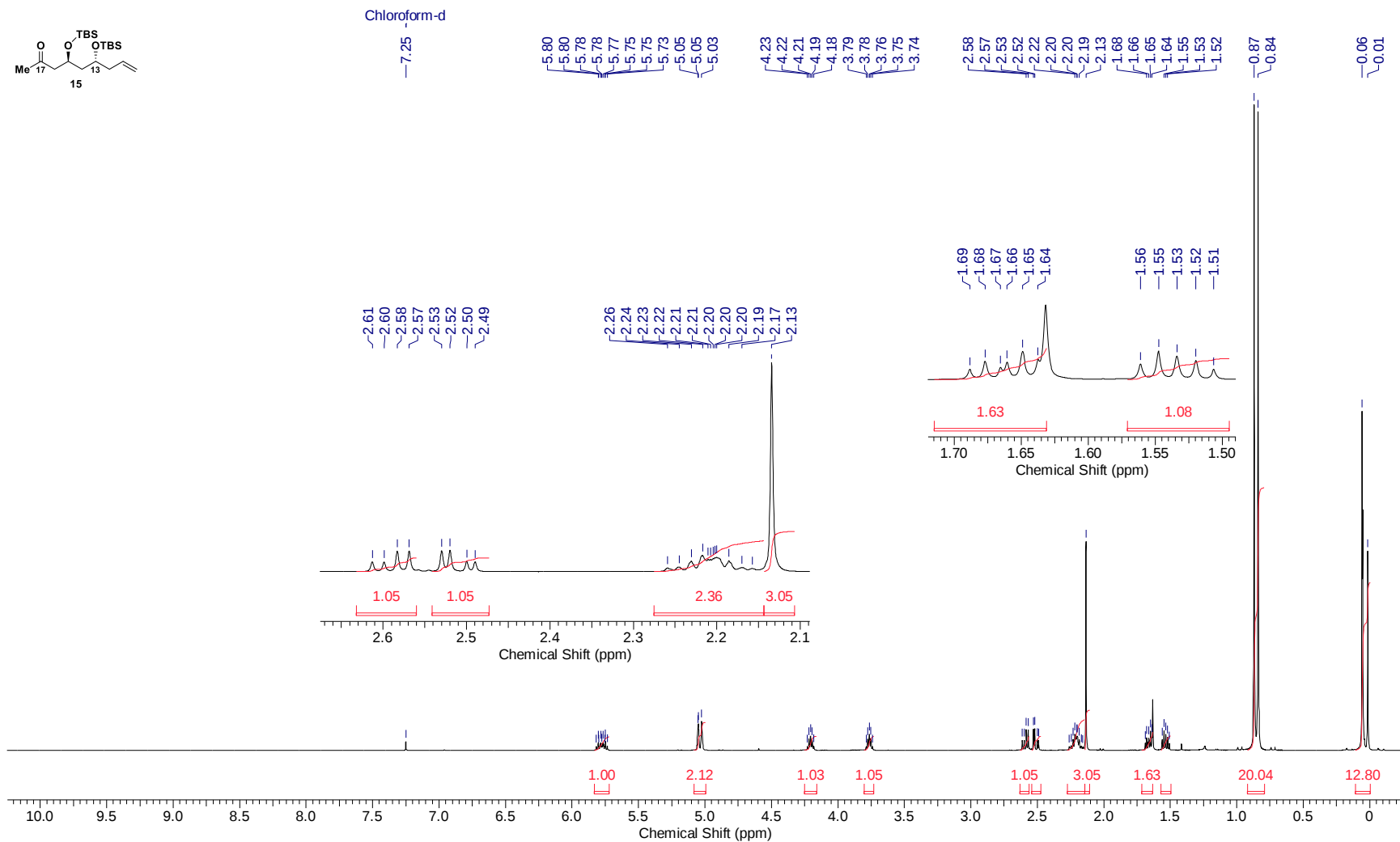


Figure S98: ¹H NMR spectrum of compound **15** (500 MHz; CDCl₃).

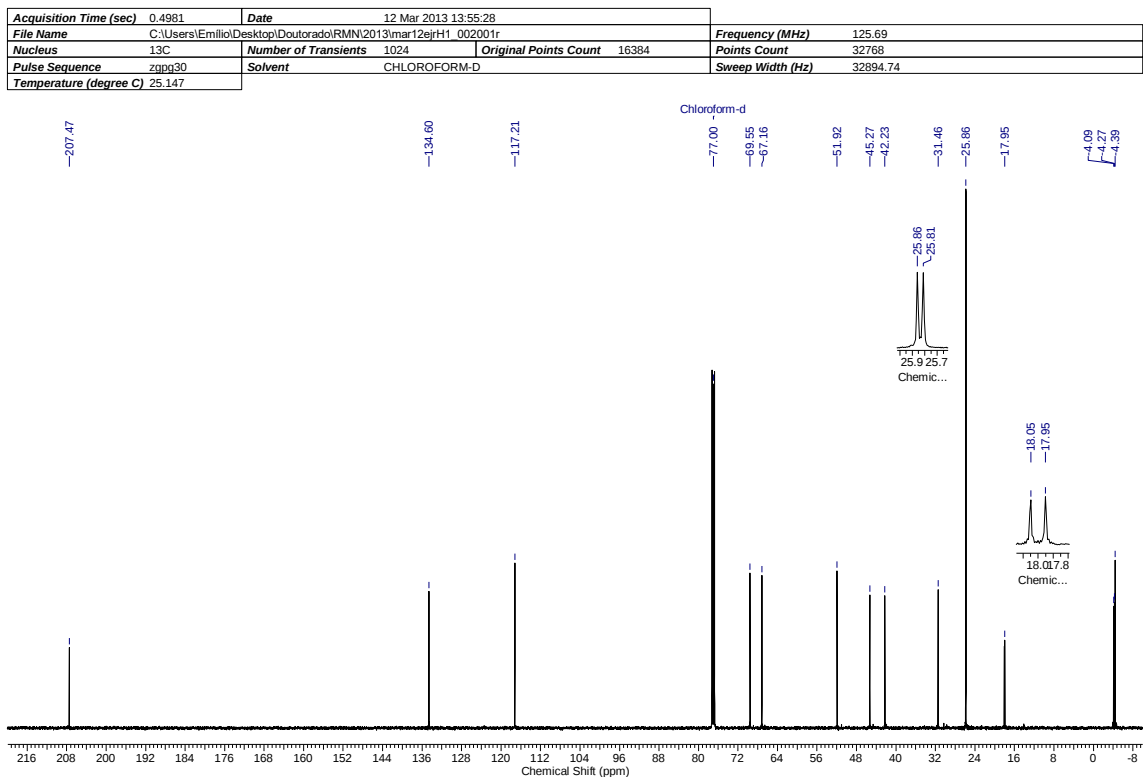


Figure S99: ^{13}C NMR spectrum of compound **15** (125 MHz; CDCl_3).

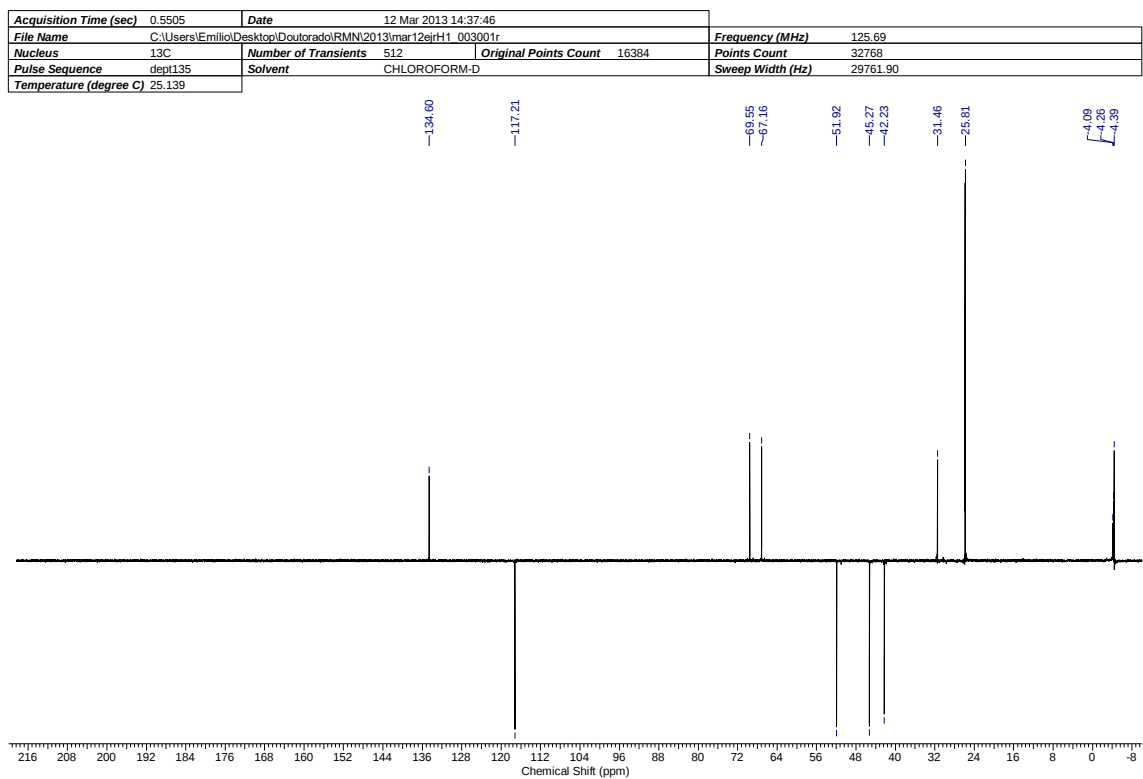


Figure S100: ^{13}C NMR (dept 135) spectrum of compound **15** (125 MHz; CDCl_3).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 010 por LQOS data sexta-feira, agosto 16 2013	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVEJR117P_1.SP	Date Stamp	fri aug 16 16:07:06 2013 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	fri aug 16 16:09:57 2013 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		

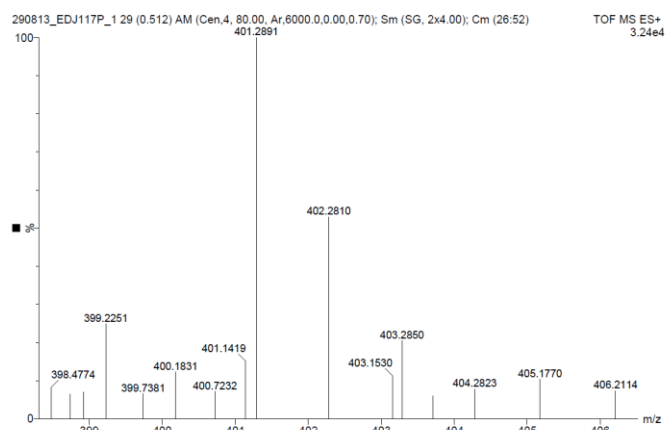
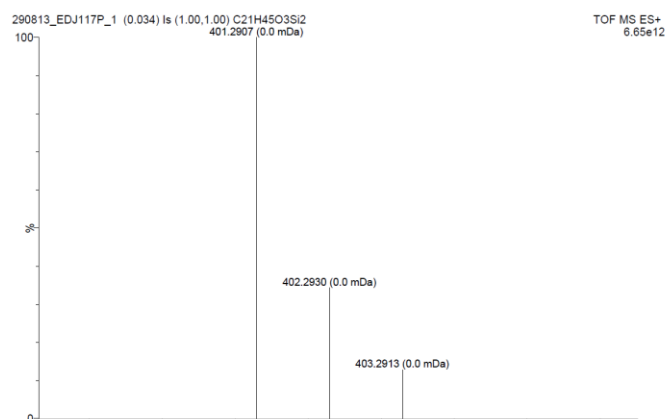
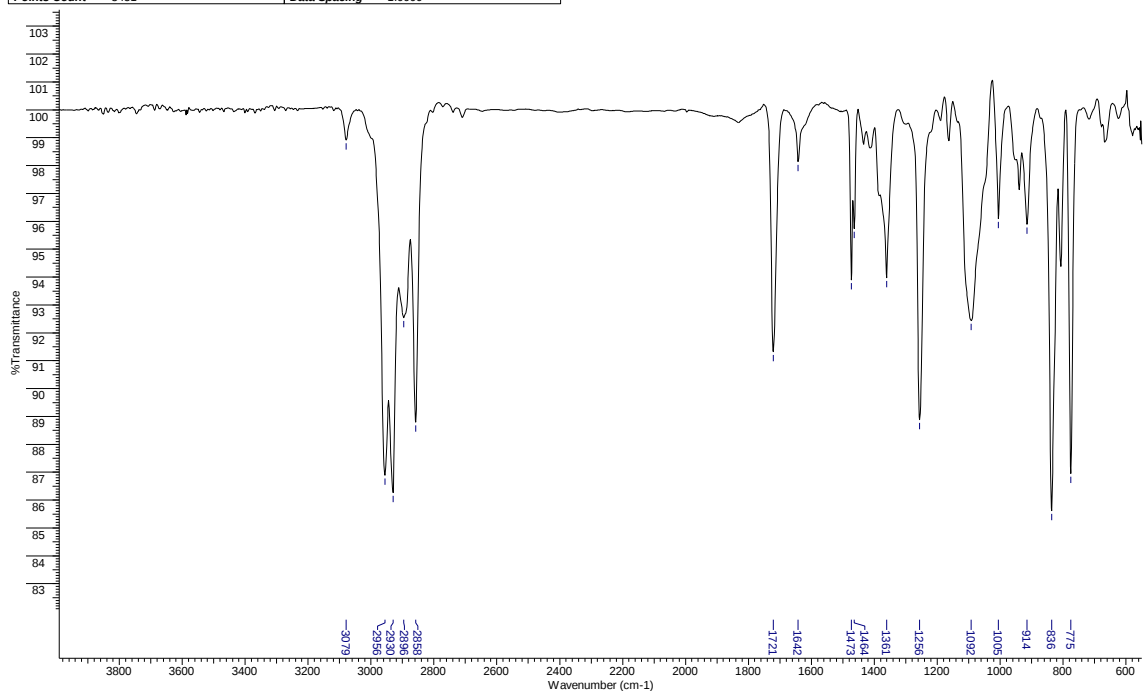


Figure S101: IR and HRMS (ESI TOF-MS) spectra of compound 15.

Acquisition Time (sec)	3.1654	Date	21 May 2013 10:53:38				
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\mai21\ejrH1_001001r					Frequency (MHz)	250.13
Nucleus	1H	Number of Transients	9	Original Points Count	16384	Points Count	32768
Pulse Sequence	zg30	Solvent	BENZENE-D6	Sweep Width (Hz)	5175.98	Temperature (degree C)	25.160

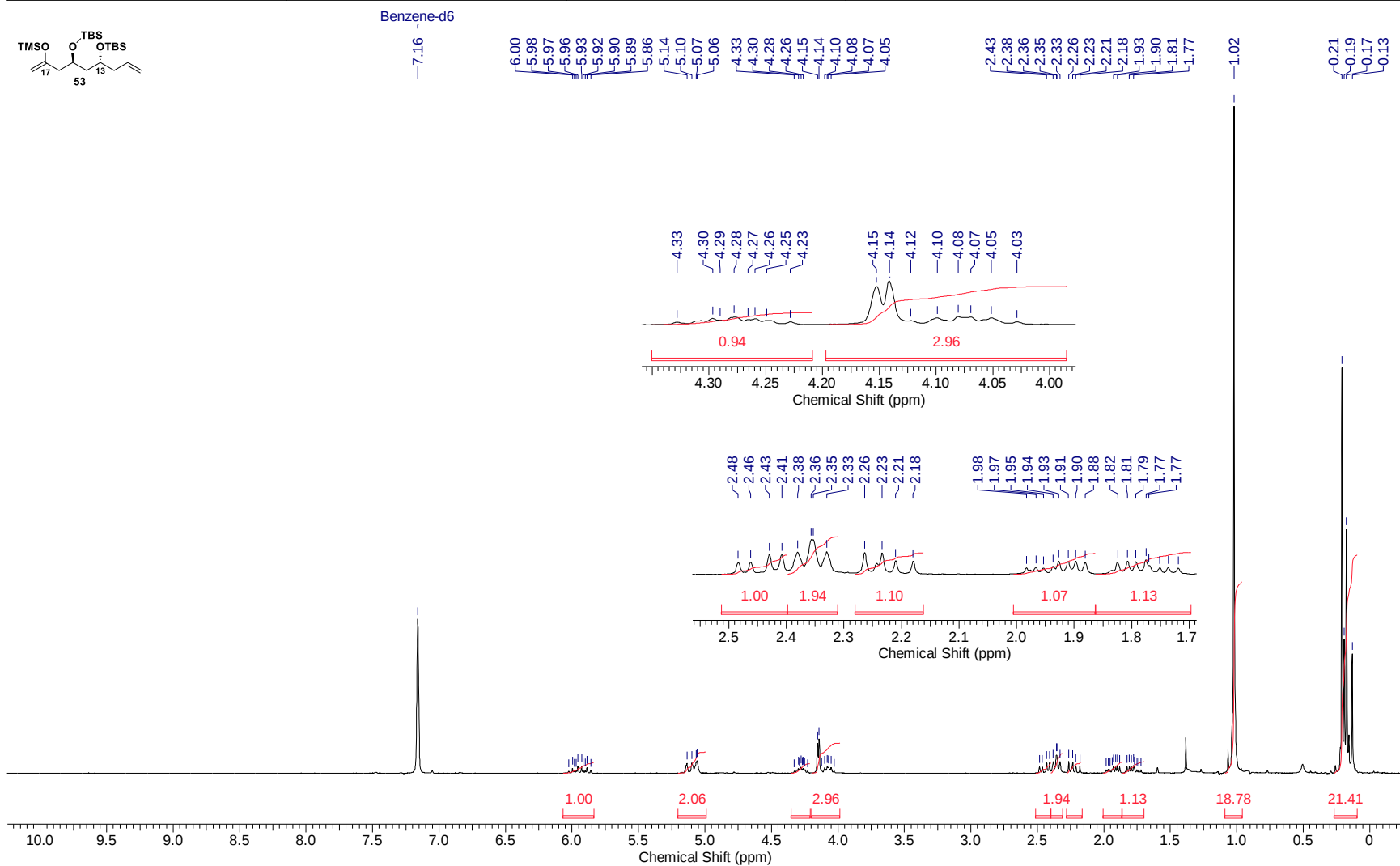


Figure S102: ¹H NMR spectrum of compound **53** (250 MHz; C₆D₆).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 187 P - CDCl ₃ - Avance 500 MHz - out07ejrH1 - 13C	Date	07 Oct 2013 08:21:30
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out07ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	320	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.146
				Pulse Sequence	zgpg30

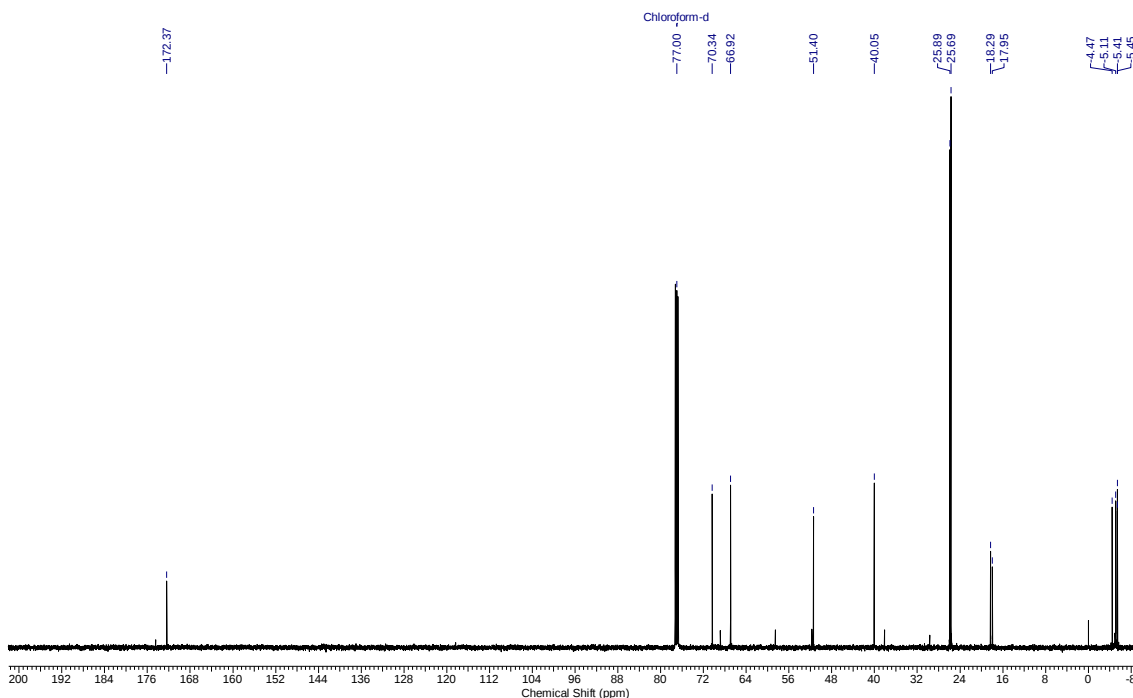


Figure S104: ¹³C NMR spectrum of compound **56a** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 187 P - CDCl ₃ - Avance 500 MHz - out07ejrH1 - DEPT 135	Date	07 Oct 2013 08:38:26
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out07ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	128	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.126
				Pulse Sequence	dept135

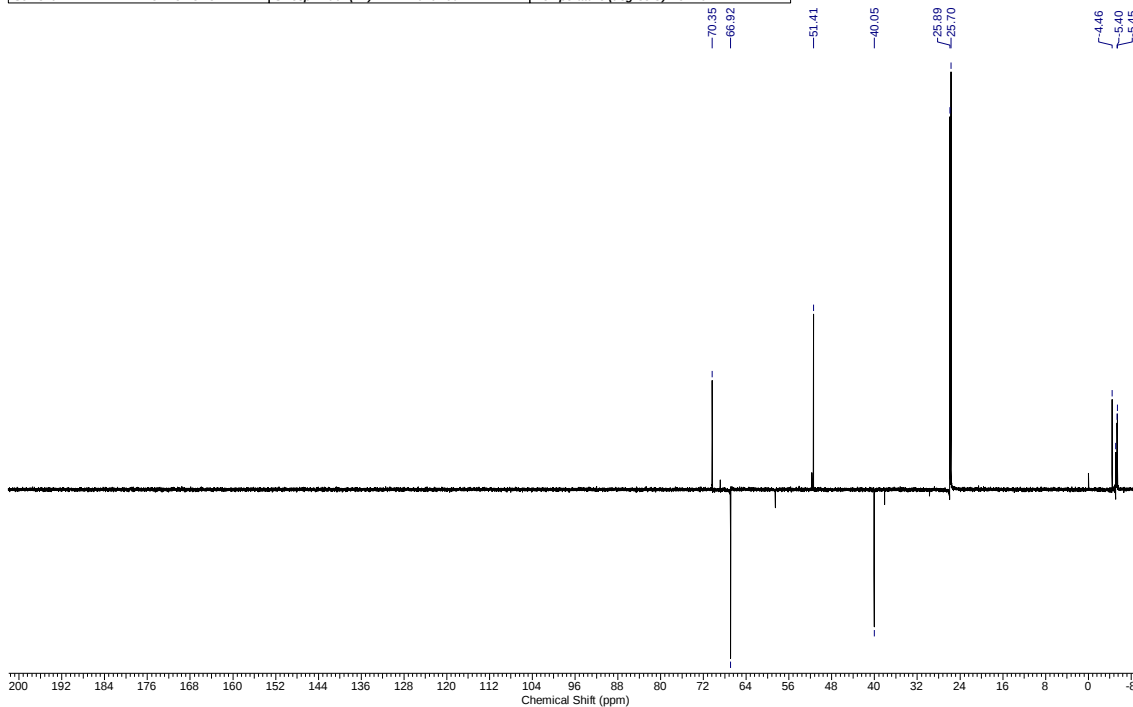


Figure S105: ¹³C NMR (dept 135) spectrum of compound **56a** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 000 por LQOS data segunda-feira, outubro 07 2013	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVE\IR187P_1.SP	Date Stamp	mon oct 07 17:08:47 2013 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	mon oct 07 17:11:45 2013 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two	Spectral Region	IR
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000	Spectrum Range	550.0000 - 4000.0000

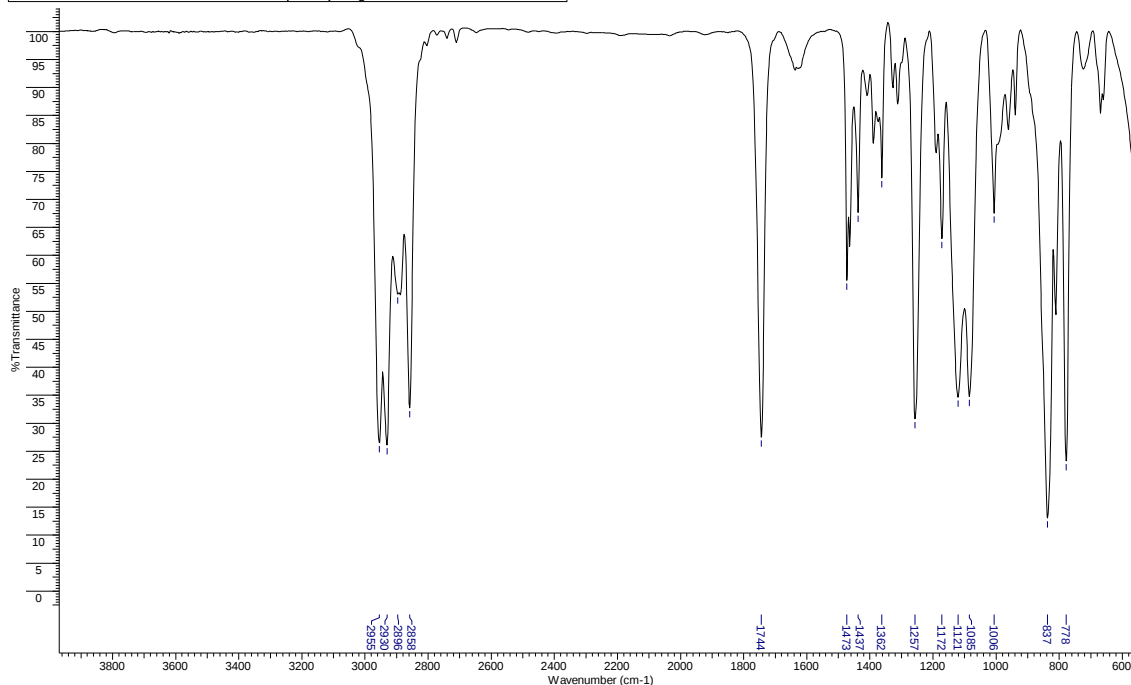


Figure S106: IR spectrum of compound **56a**.

Acquisition Time (sec)	0.5505	Comment	Emilio EJR-188P cdc13 av500MHz out04ejrH1 - 13C	Date	04 Oct 2013 10:43:54
File Name	C:\Users\Emilio\Desktop\Boutorado\RMN\2013\out04ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	320	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.195

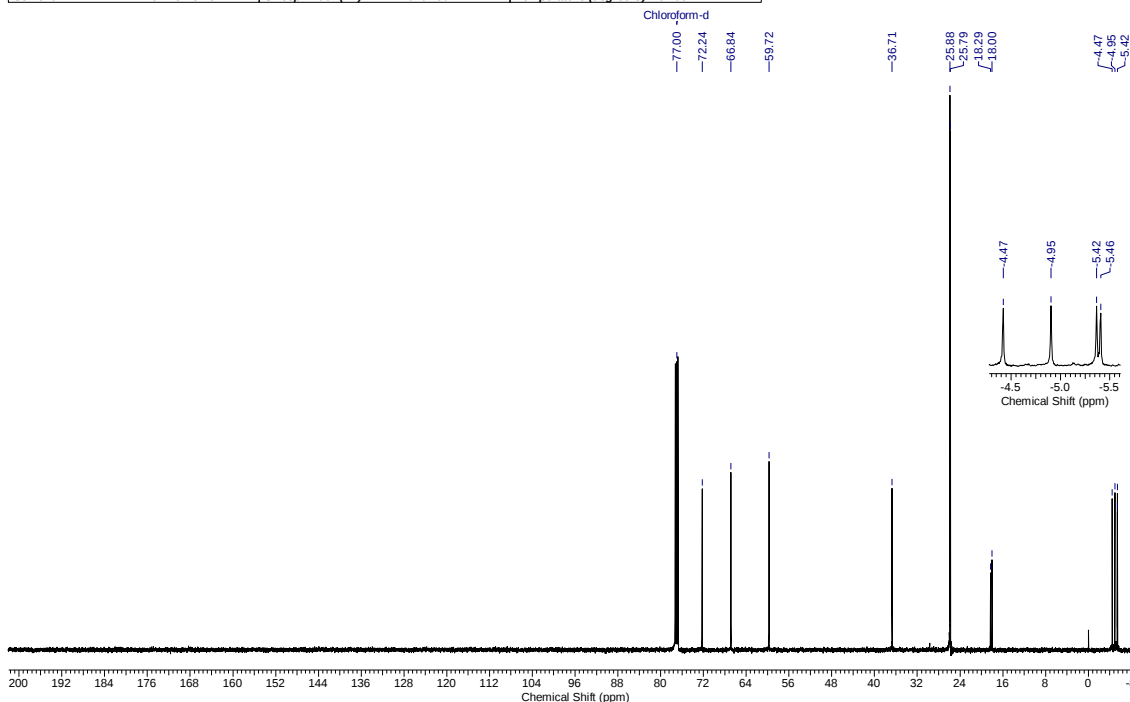


Figure S108: ^{13}C NMR spectrum of compound **57a** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio EJR-188P cdc13 av500MHz out04ejrH1 - dept 135	Date	04 Oct 2013 10:44:18
File Name	C:\Users\Emilio\Desktop\Boutorado\RMN\2013\out04ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	214	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.156

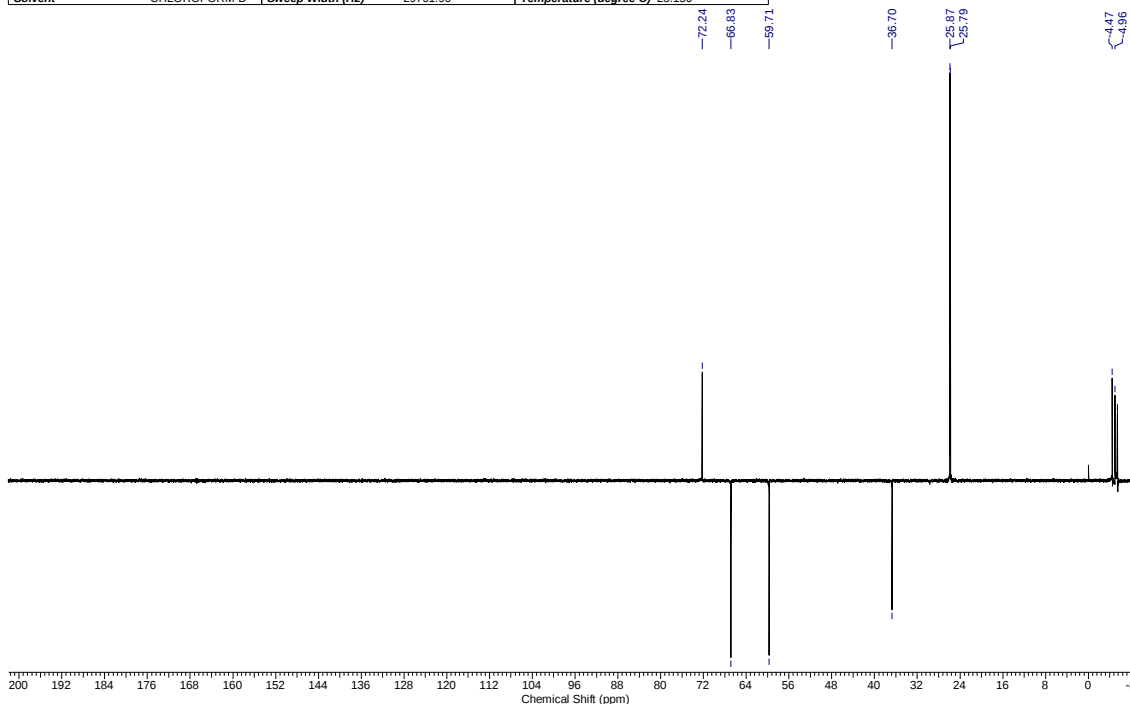


Figure S109: ^{13}C NMR (dept 135) spectrum of compound **57a** (125 MHz; CDCl_3).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 009 por LQOS data segunda-feira, dezembro 02 2013
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVIEJR188P_1.SP
Date Stamp	mon dec 02 14:47:28 2013 Horário brasileiro de verão (GMT-2:00)	Date	mon dec 02 14:48:32 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000

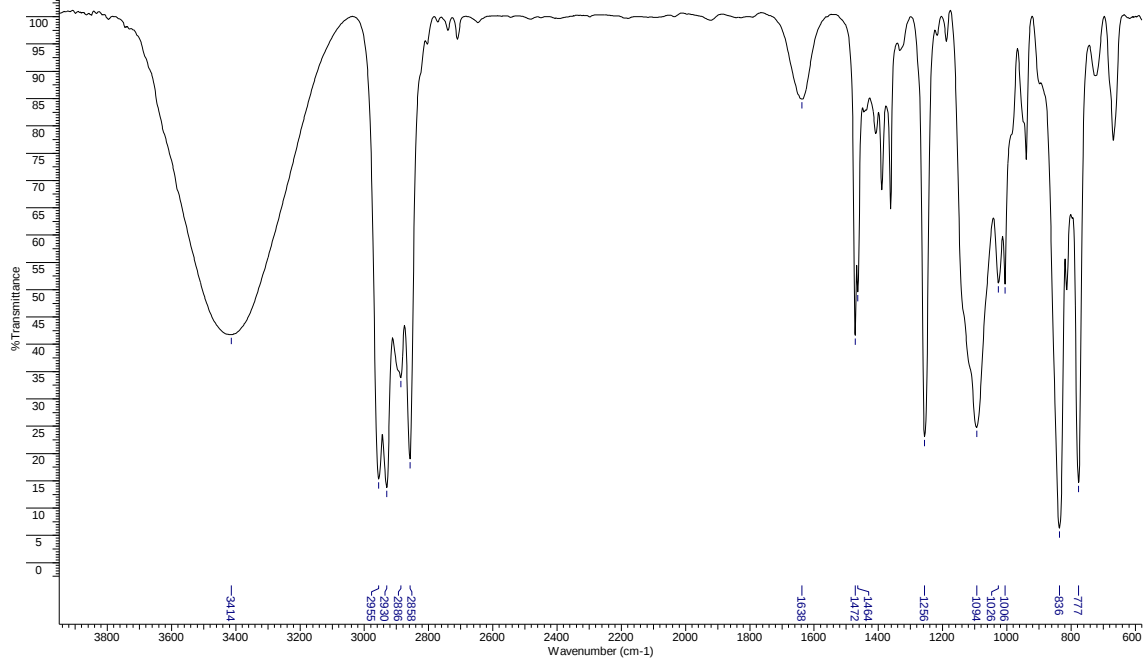


Figure S110: IR spectrum of compound 57a.

Acquisition Time (sec)	0.5505	Comment	Emilio EJR-189 cdc13 av500MHz out04ejrH2 - 13C	Date	04 Oct 2013 11:04:00
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out04ejrH2_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	349	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.133
				Pulse Sequence	zgpg30

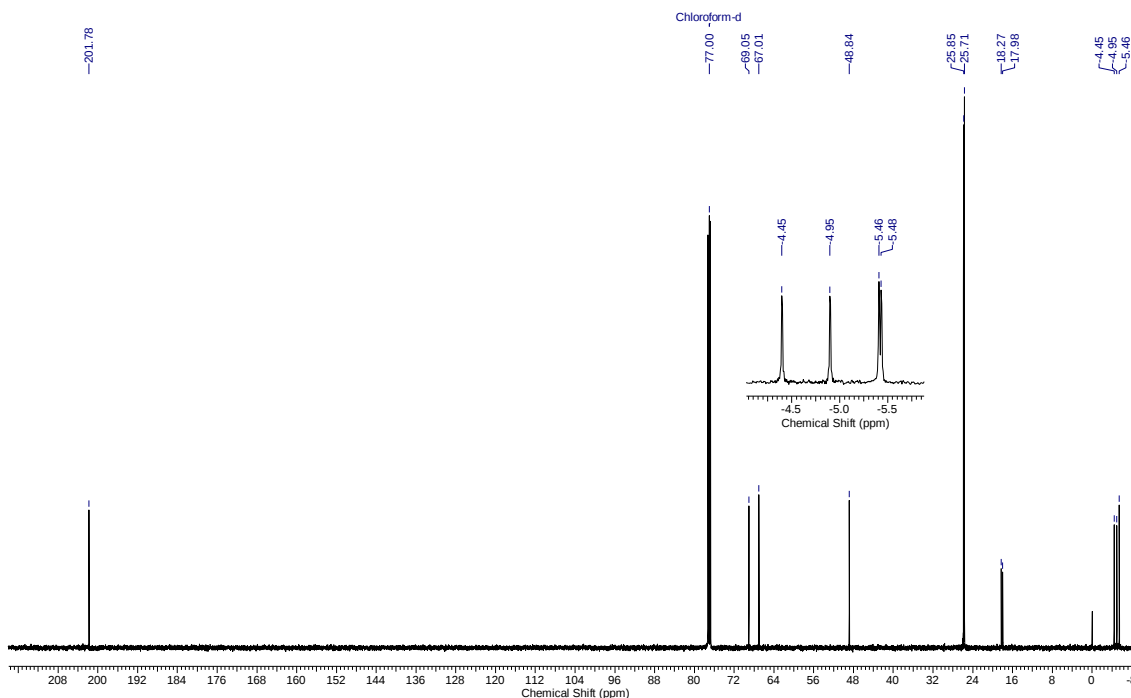


Figure S112: ^{13}C NMR spectrum of compound **14a** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio EJR-189 cdc13 av500MHz out04ejrH2 - dept 135	Date	04 Oct 2013 11:15:12
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out04ejrH2_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	128	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.161
				Pulse Sequence	dept135

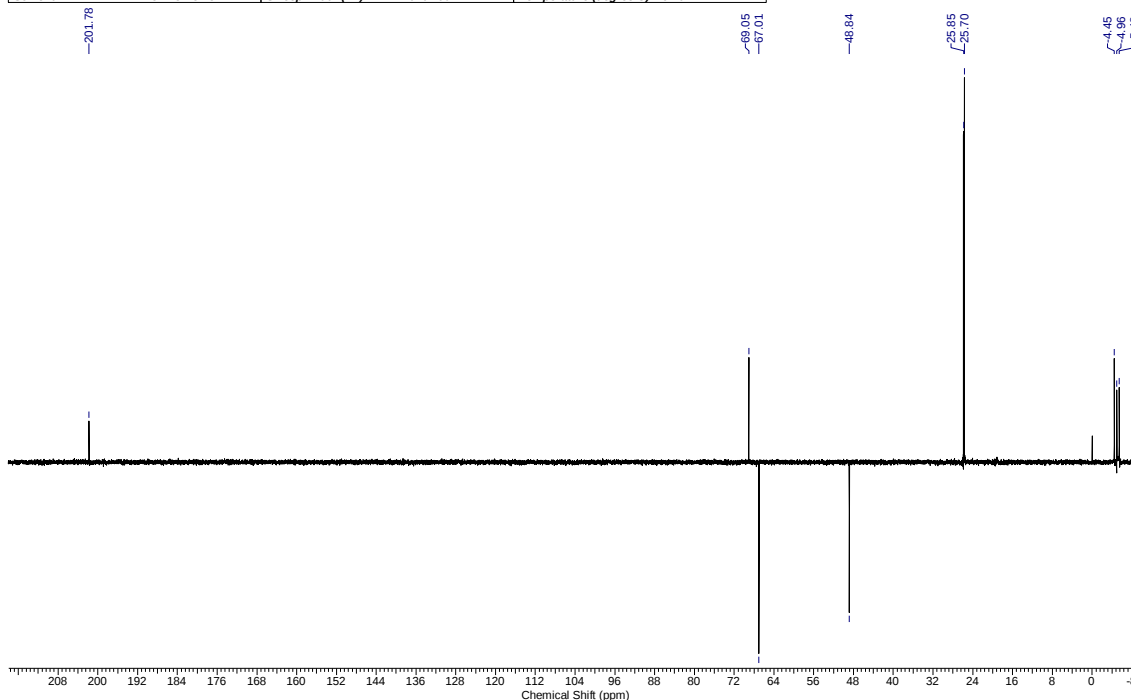


Figure S113: ^{13}C NMR (dept 135) spectrum of compound **14a** (125 MHz; CDCl_3).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 010 por LQOS data segunda-feira, dezembro 02 2013
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVIEJR189_1.SP
Date Stamp	mon dec 02 14:55:49 2013 Horário brasileiro de verão (GMT-2:00)	Date	mon dec 02 14:57:19 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000

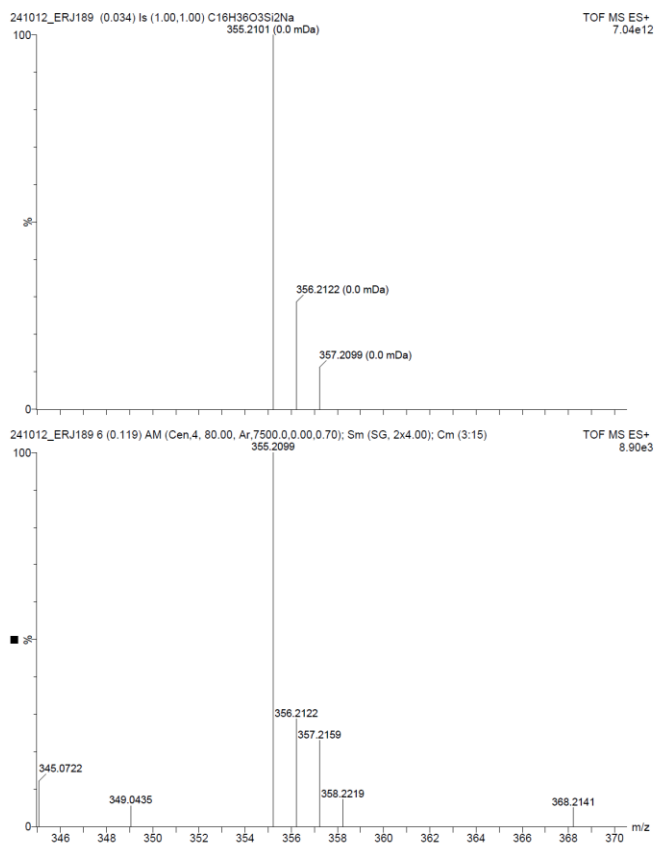
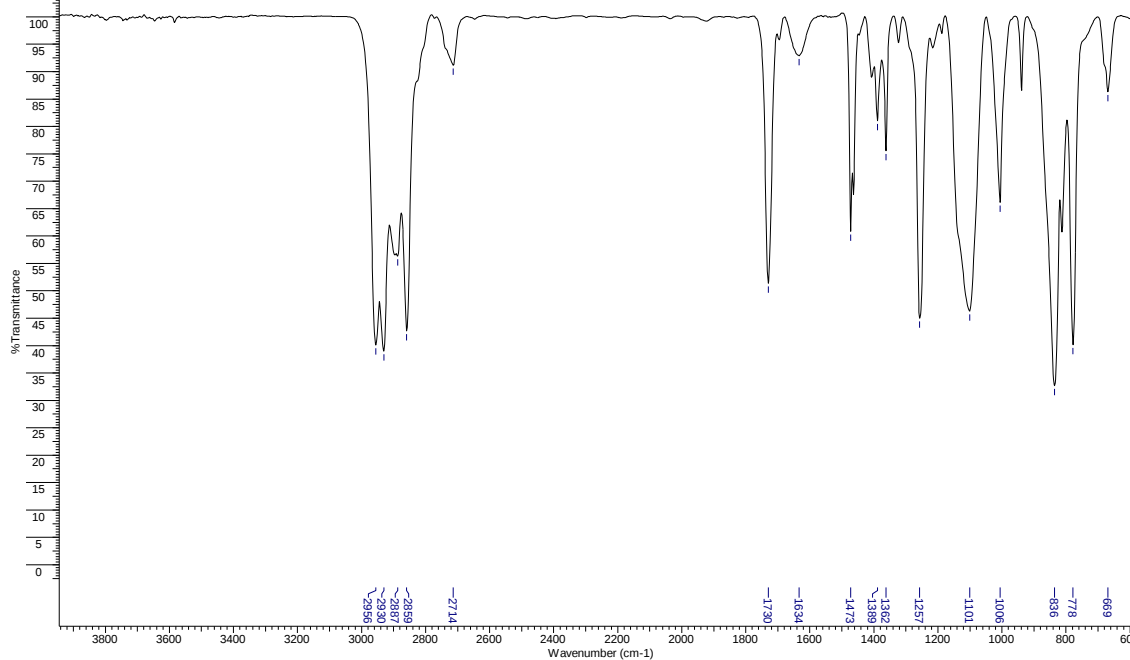


Figure S114: IR and HRMS (ESI TOF-MS) spectra of compound **14a**.

Acquisition Time (sec)	2.6564	Date	14 Oct 2013 15:48:00	Frequency (MHz)	600.17
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\out14ejrH1_001001r	Number of Transients	16	Original Points Count	32768
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Sweep Width (Hz)	12335.53		
Temperature (degree C)	27.000				

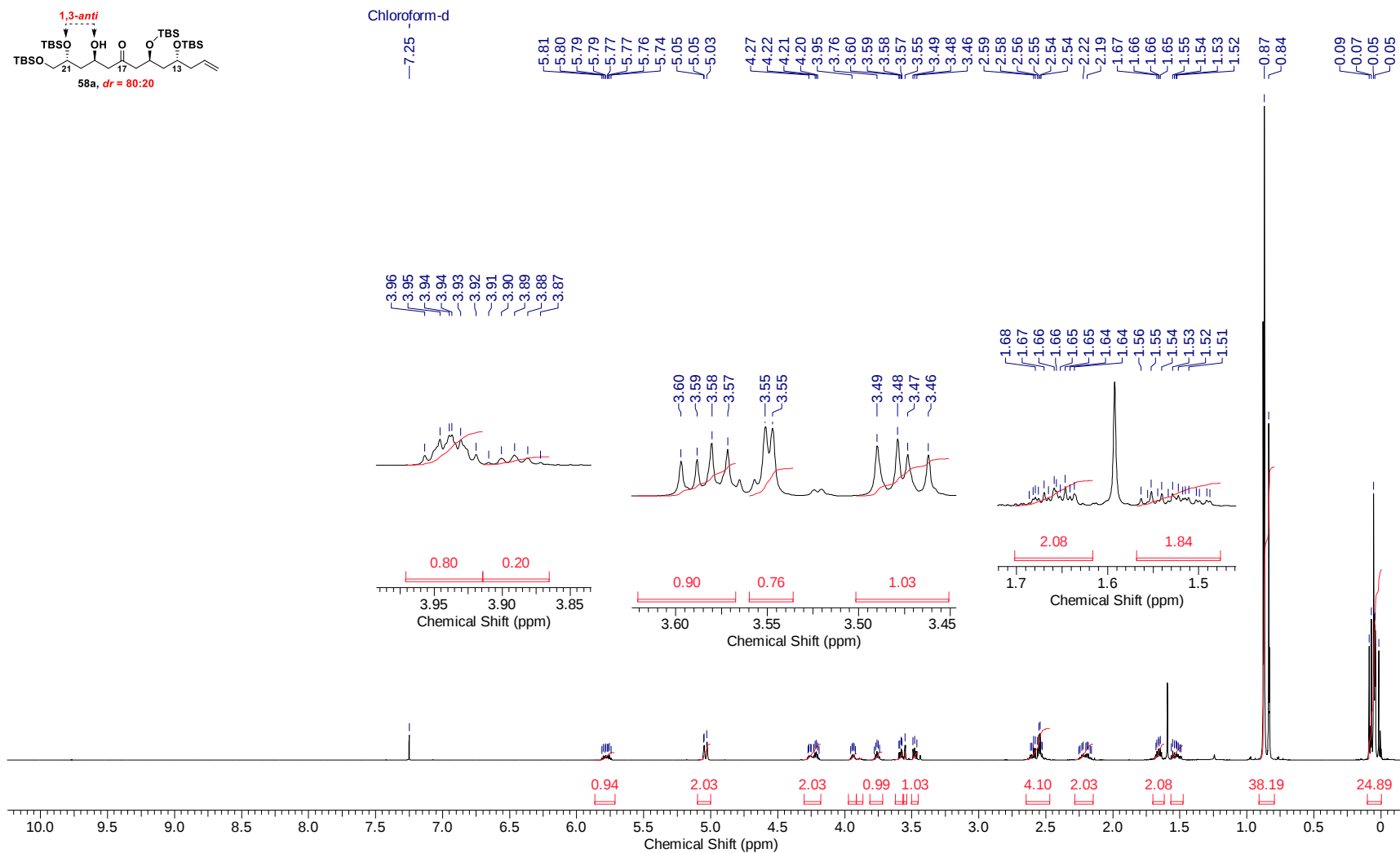


Figure S115: ¹H NMR spectrum of compound **58a** (600 MHz; CDCl₃).

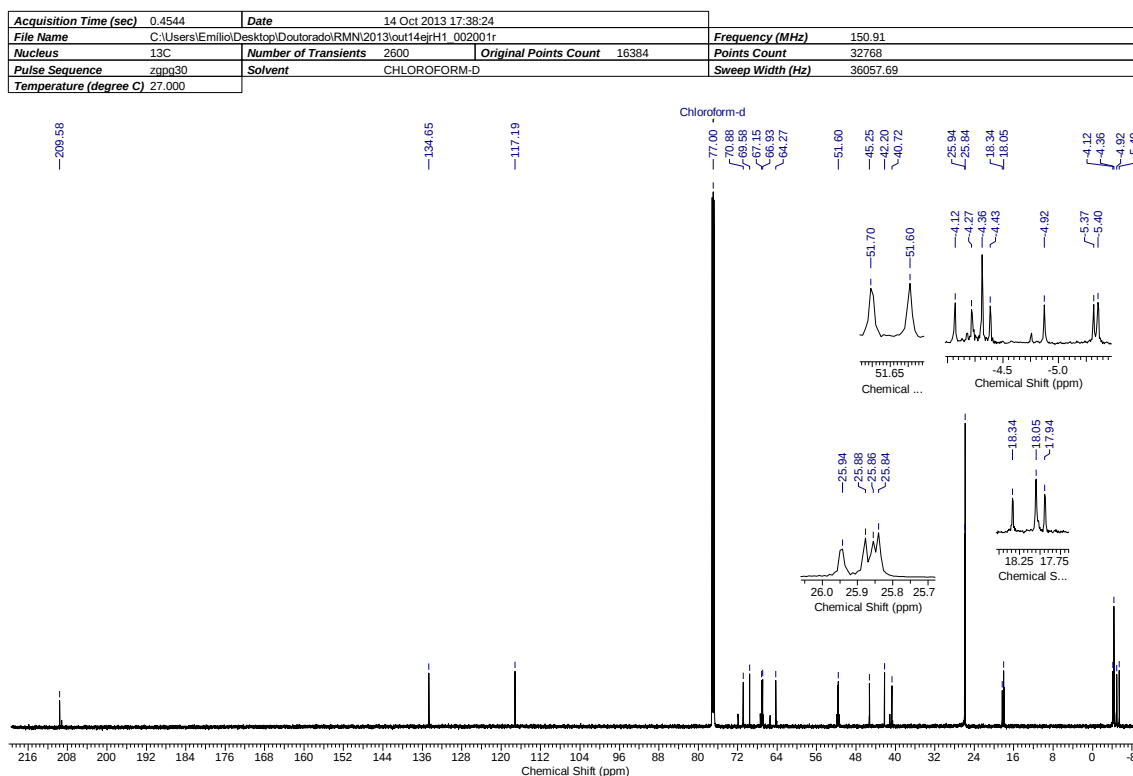


Figure S116: ^{13}C NMR spectrum of compound **58a** (150 MHz; CDCl_3).

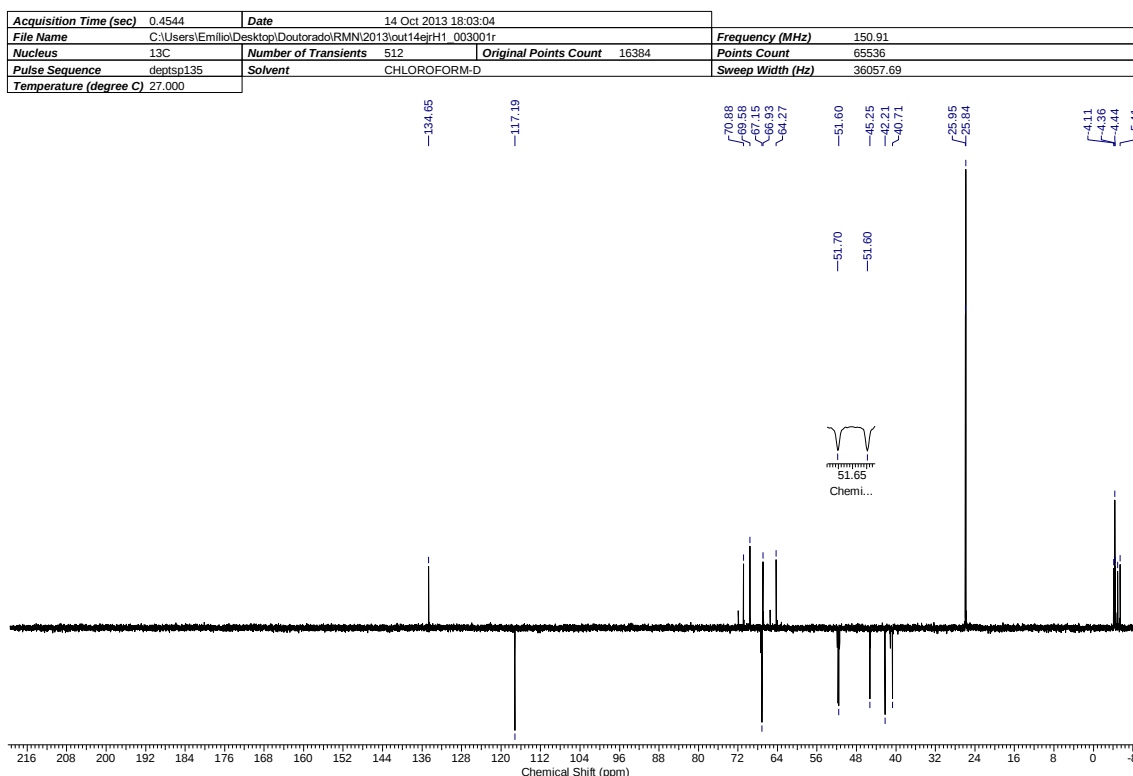


Figure S117: ^{13}C NMR (dept 135) spectrum of compound **58a** (150 MHz; CDCl_3).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 011 por LQOS data segunda-feira, dezembro 02 2013
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVIEJR199P_1.SP
Date Stamp	mon dec 02 17:36:03 2013 Horário brasileiro de verão (GMT-2:00)	Date	mon dec 02 17:36:59 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000

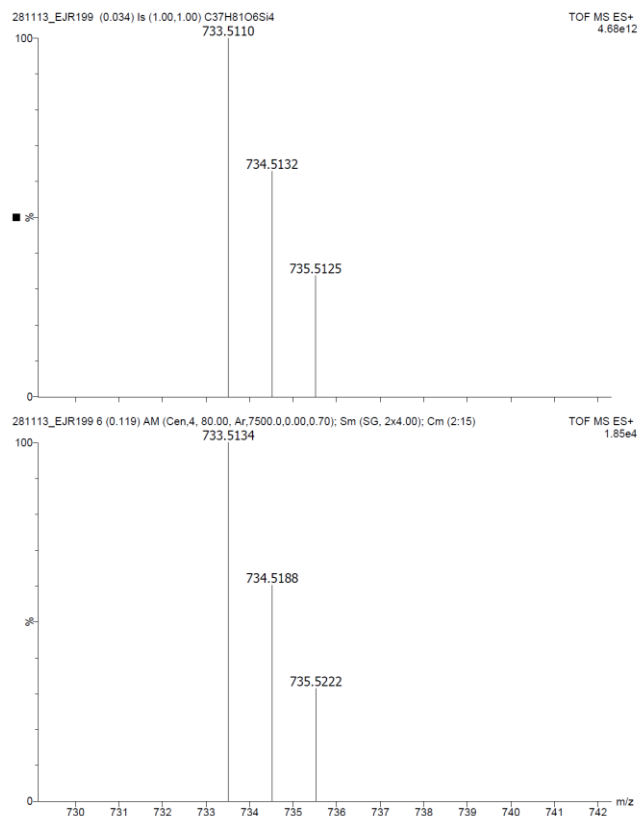
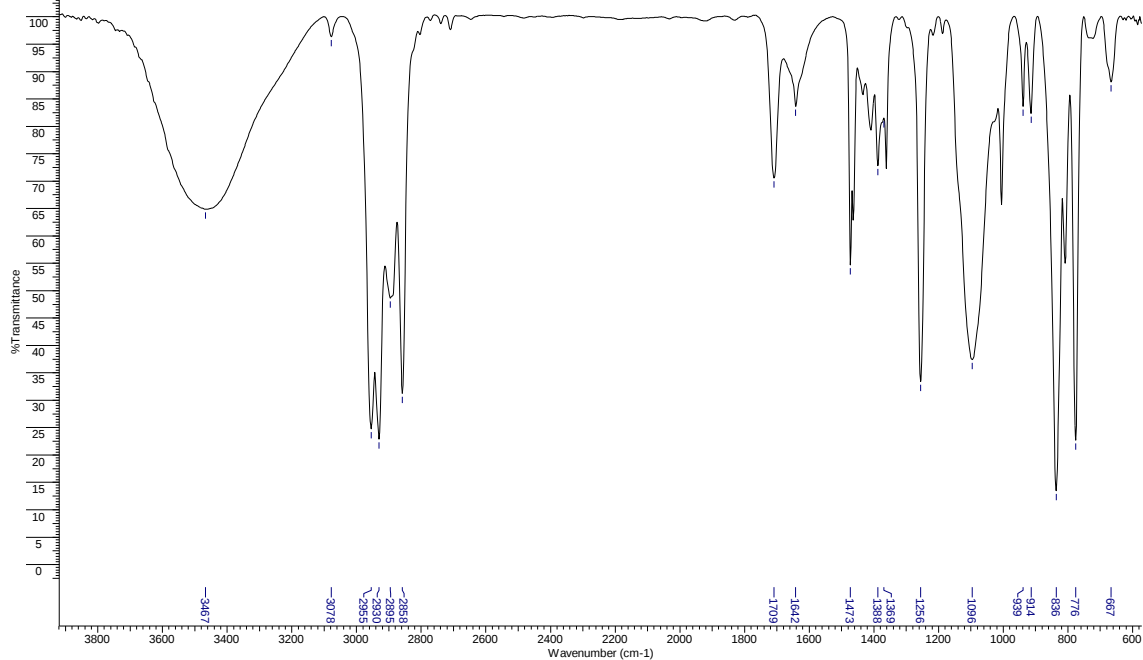


Figure S118: IR and HRMS (ESI TOF-MS) spectra of compound **58a**.

Acquisition Time (sec)	1.5903	Date	15 Oct 2013 18:40:54	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\out15ejrH1_001001r	Nucleus	1H	Number of Transients	16
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Original Points Count	16384
Temperature (degree C)	25.162			Points Count	65536
				Sweep Width (Hz)	10302.20

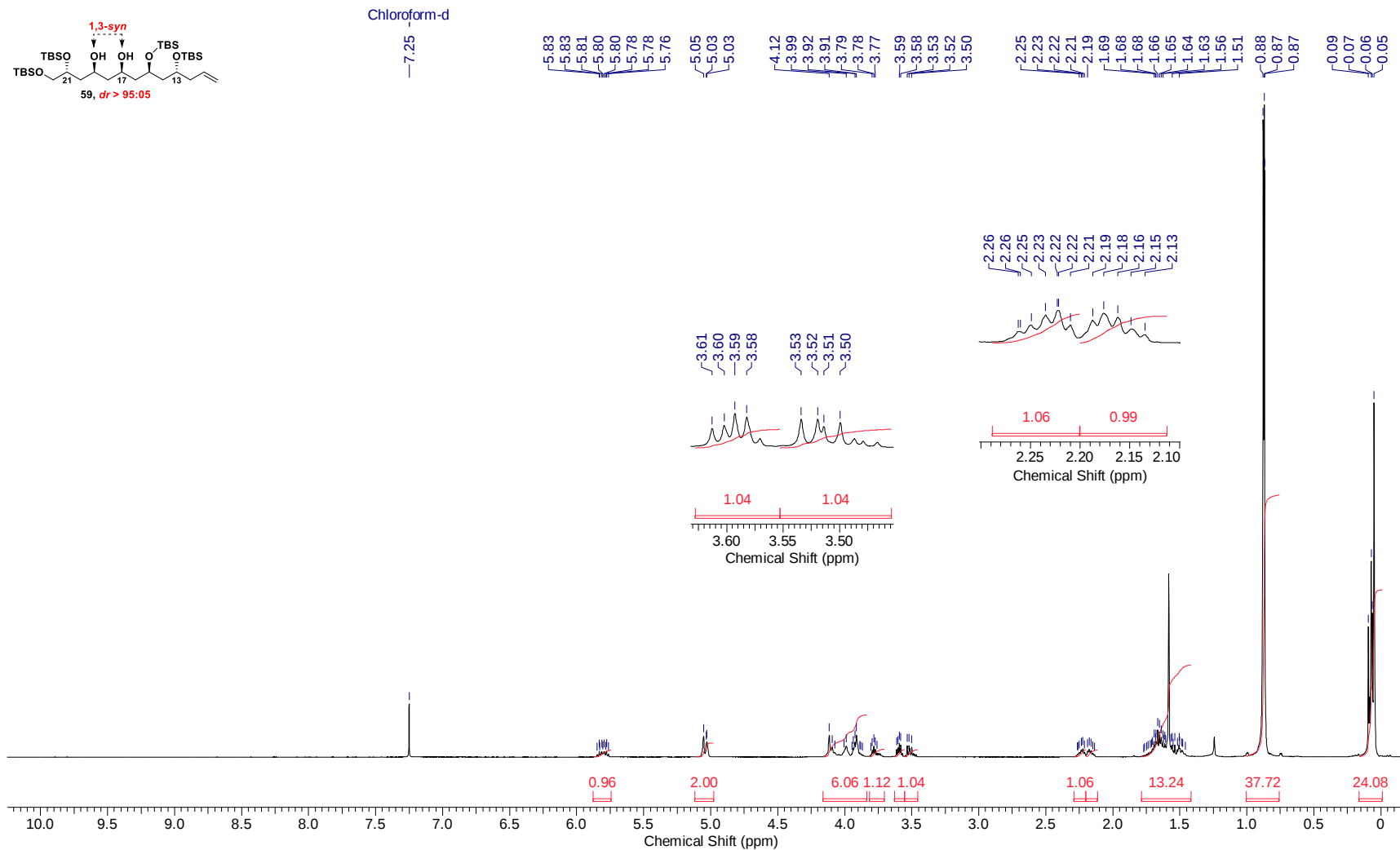


Figure S119: ¹H NMR spectrum of compound **59** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.4981	Date	15 Oct 2013 19:38:44	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out15ejrH1_002001r	Number of Transients	1024	Original Points Count	16384
Nucleus	13C	Points Count	32768	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.159				

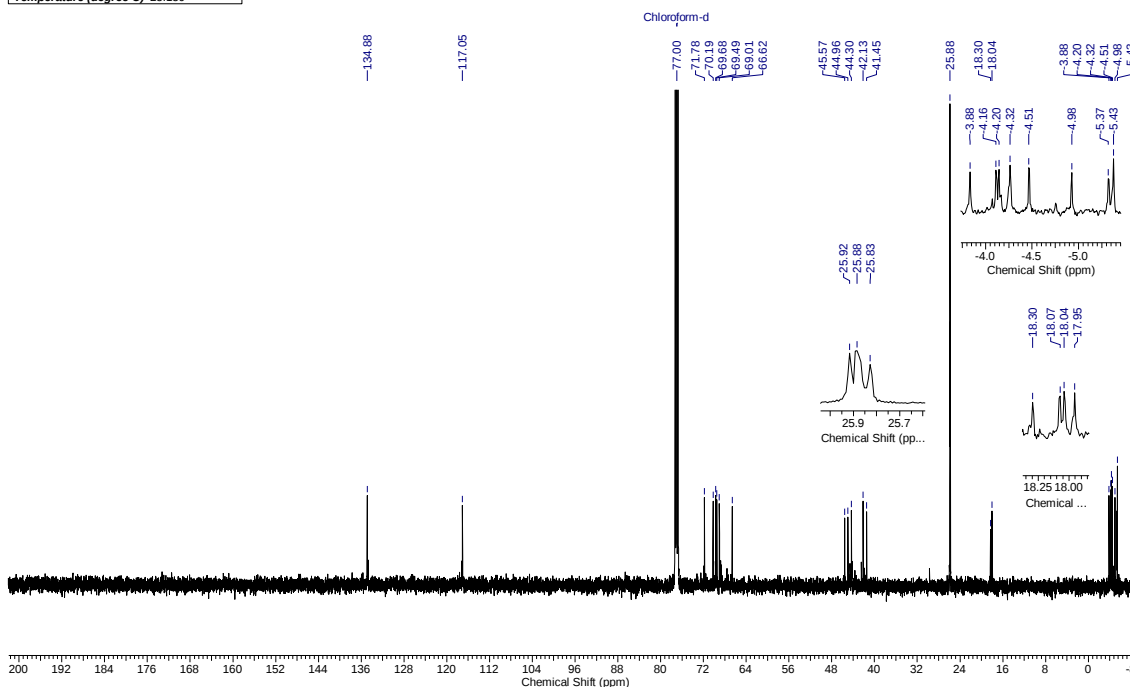


Figure S120: ^{13}C NMR spectrum of compound **59** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Date	15 Oct 2013 19:38:58	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out15ejrH1_003001r	Number of Transients	321	Original Points Count	16384
Nucleus	13C	Points Count	32768	Sweep Width (Hz)	29761.90
Pulse Sequence	dept135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.158				

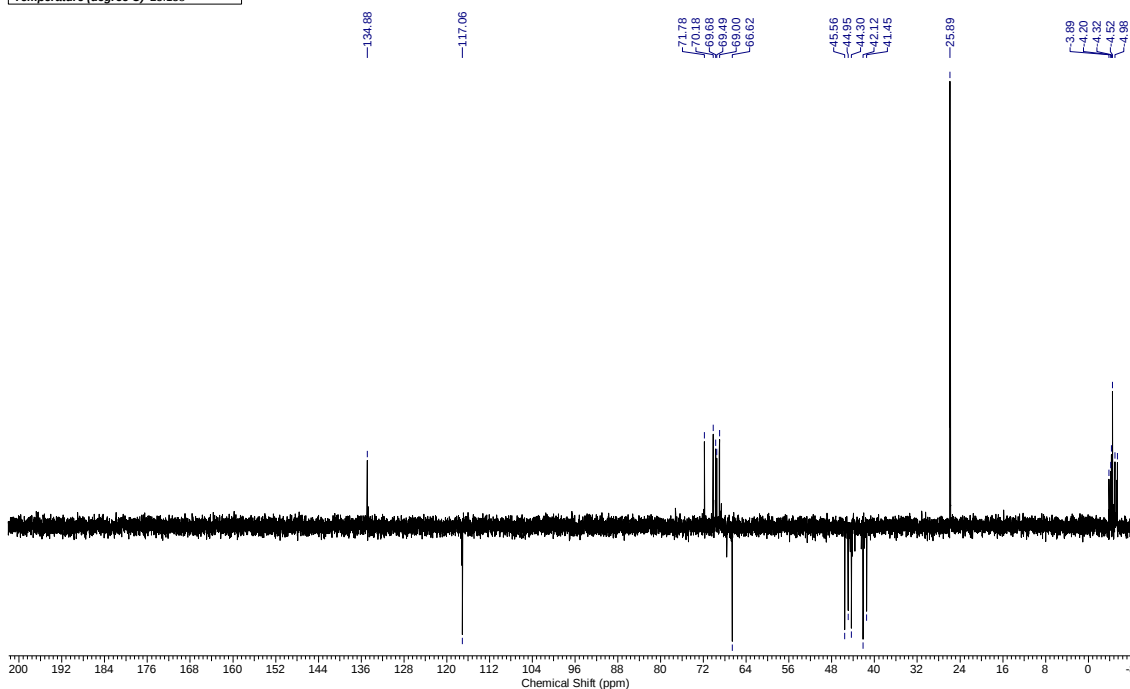


Figure S121: ^{13}C NMR (dept 135) spectrum of compound **59** (125 MHz; CDCl_3).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 012 por LQOS data segunda-feira, dezembro 02 2013
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\ADOUTORADO\IVIEJR200P_1.SP
Date Stamp	mon dec 02 17:49:23 2013 Horário brasileiro de verão (GMT-2:00)	Date	mon dec 02 17:51:54 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000

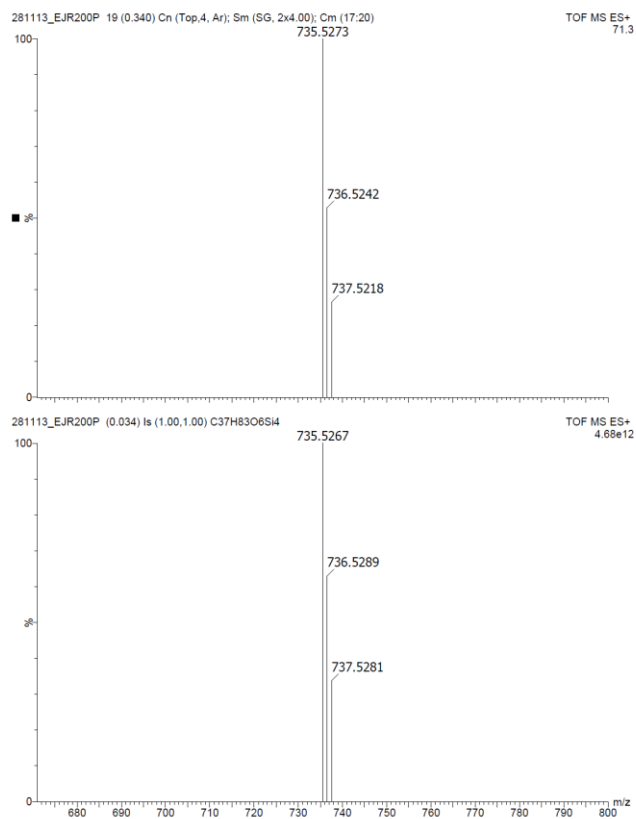
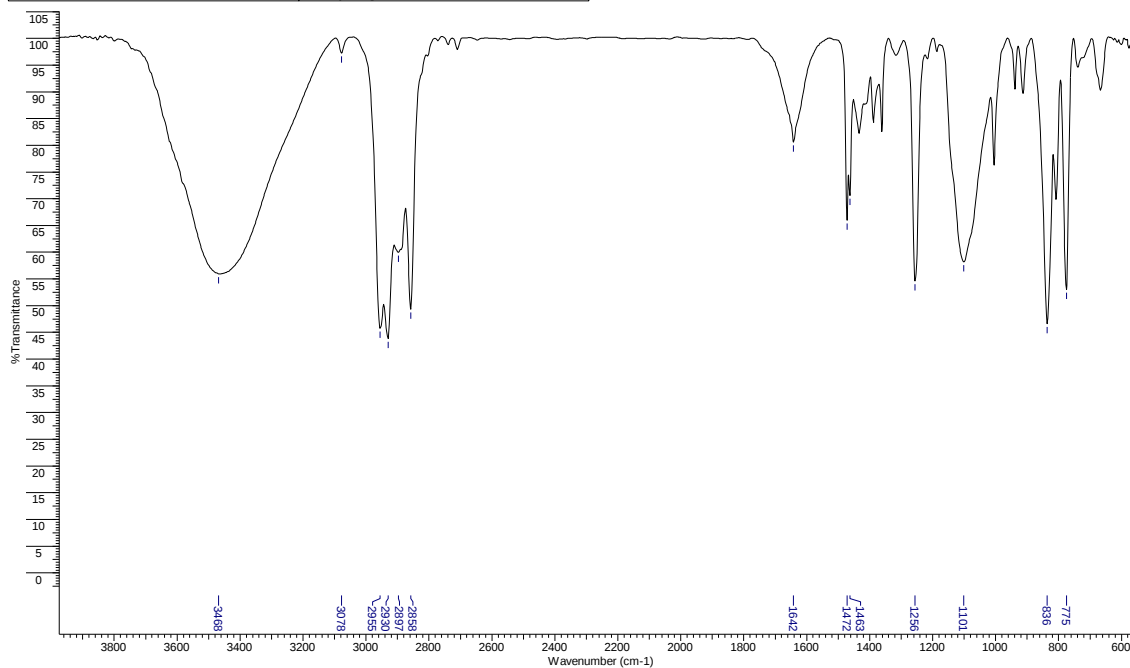


Figure S122: IR and HRMS (ESI TOF-MS) spectra of compound **59**.

Acquisition Time (sec)	2.6564	Date	17 Oct 2013 19:29:28	Frequency (MHz)	600.17
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\out17ejrH1_001001r	Number of Transients	16	Original Points Count	32768
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Sweep Width (Hz)	12335.53		
Temperature (degree C)	27.000				

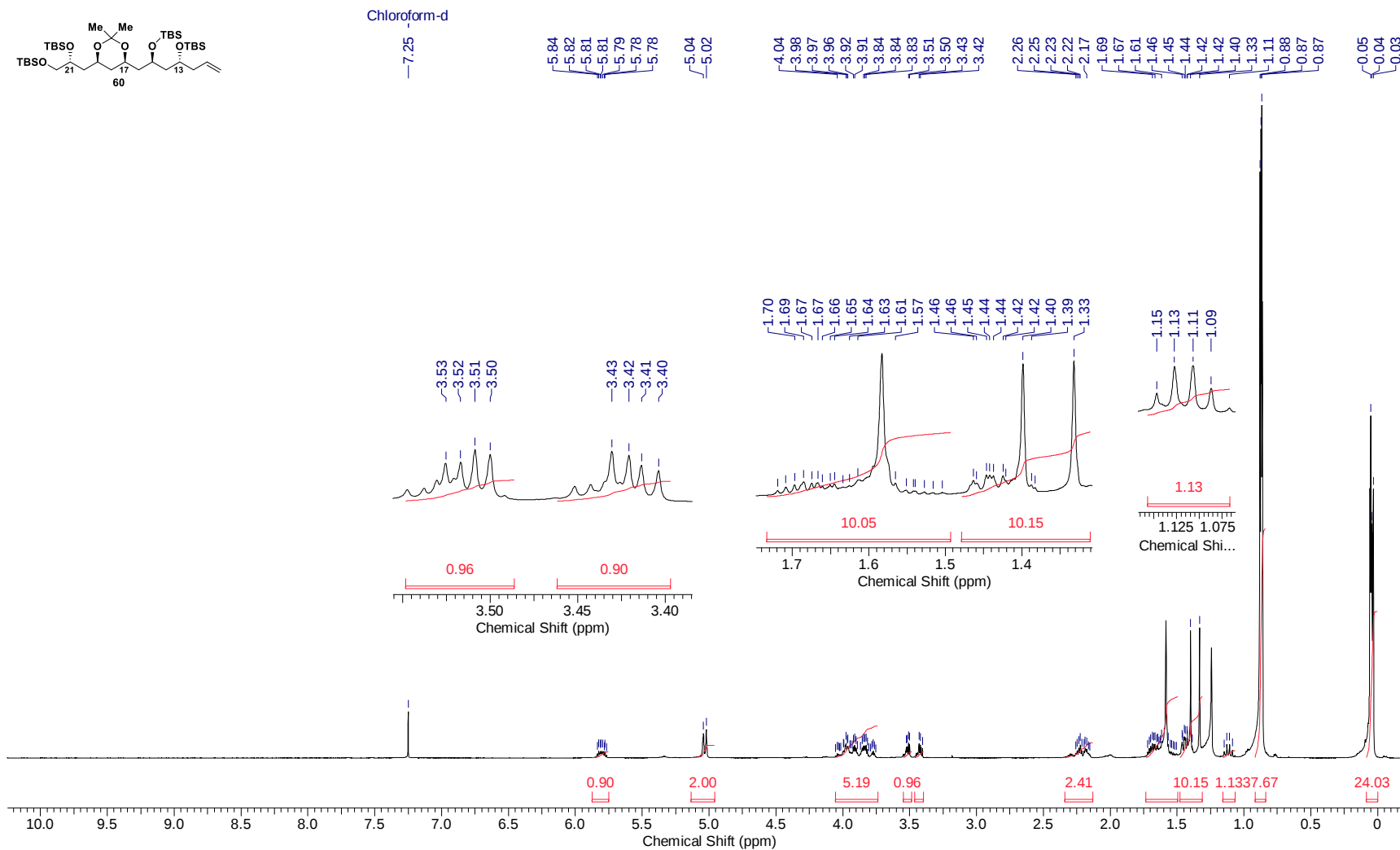


Figure S123: ¹H NMR spectrum of compound **60** (600 MHz; CDCl₃).

Acquisition Time (sec)	0.4544	Date	18 Oct 2013 07:49:04	Frequency (MHz)	150.91
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out17\ejh1_002001r	Number of Transients	12424	Original Points Count	16384
Nucleus	13C	Points Count	32768	Sweep Width (Hz)	36057.69
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	27.000				

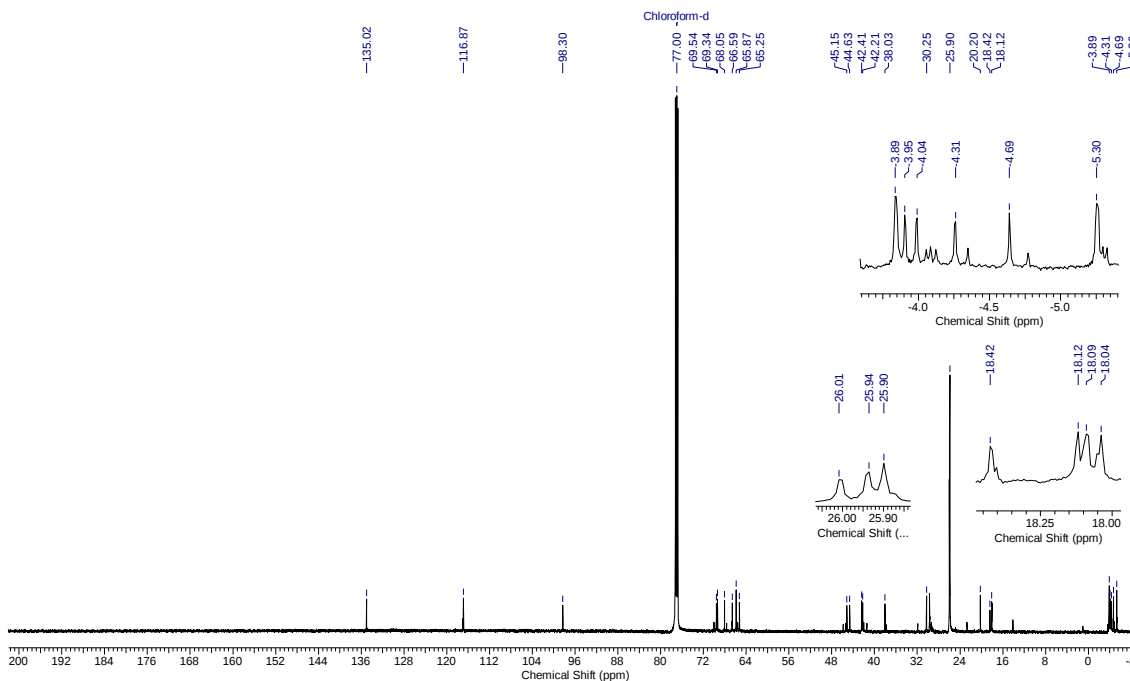


Figure S124: ^{13}C NMR spectrum of compound **60** (150 MHz; CDCl_3).

Acquisition Time (sec)	0.4544	Date	18 Oct 2013 07:51:49	Frequency (MHz)	150.91
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\out17\ejh1_003001r	Number of Transients	5120	Original Points Count	16384
Nucleus	13C	Points Count	65536	Sweep Width (Hz)	36057.69
Pulse Sequence	depts135	Solvent	CHLOROFORM-D		
Temperature (degree C)	27.000				

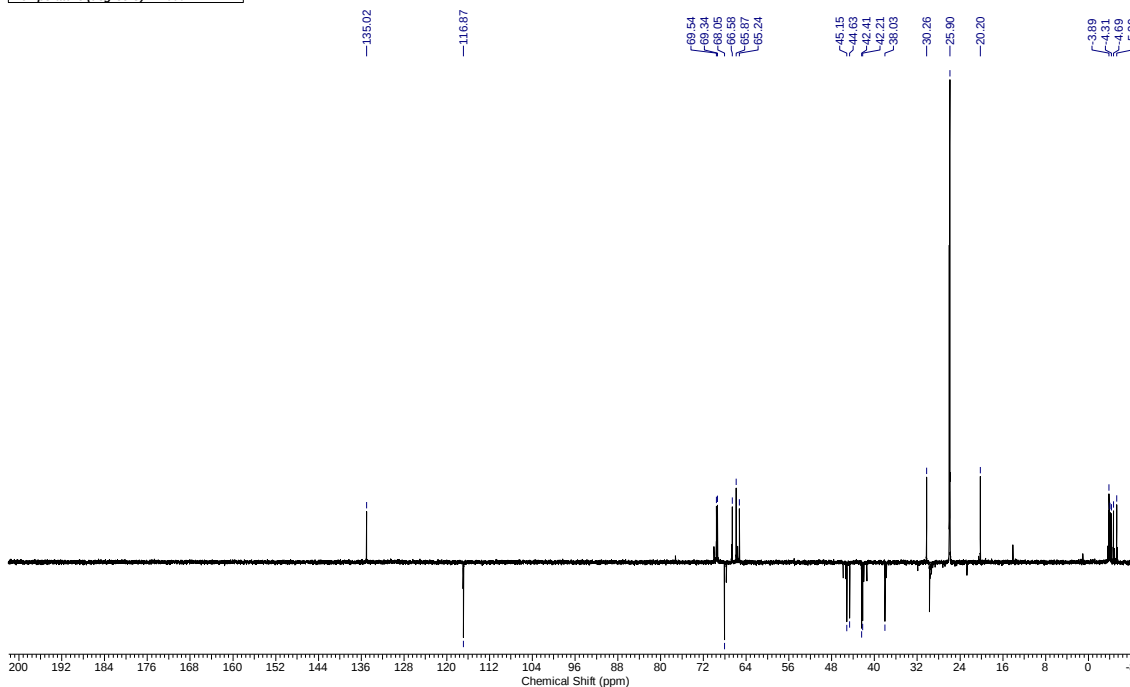
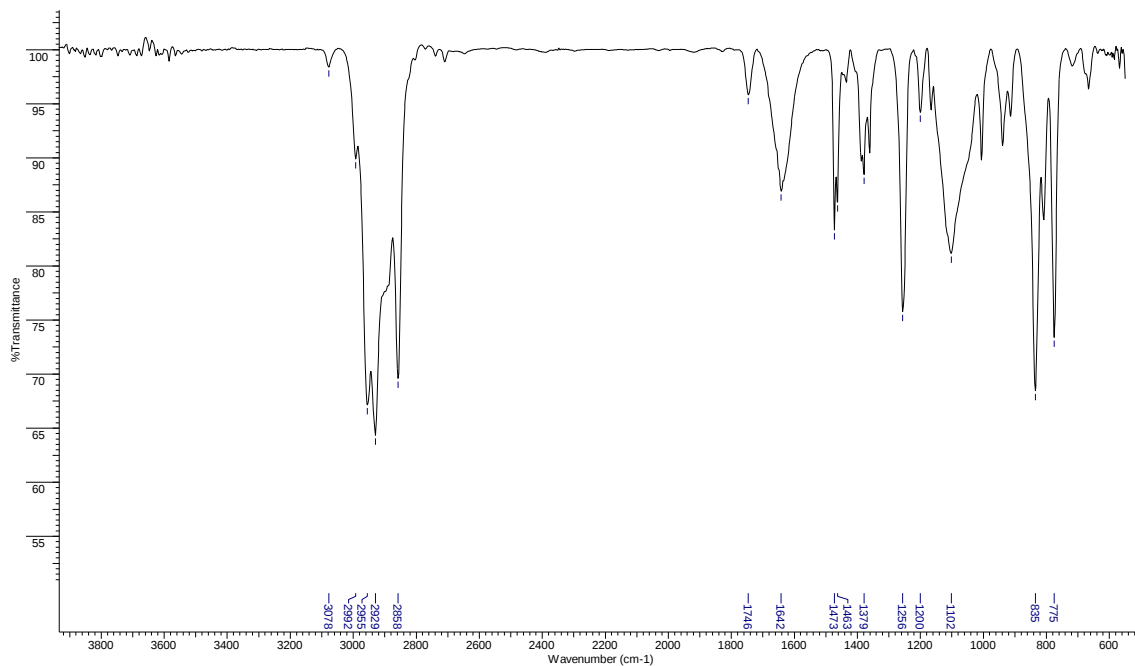


Figure S125: ^{13}C NMR (dept 135) spectrum of compound **60** (150 MHz; CDCl_3).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 013 por LQOS data segunda-feira, dezembro 02 2013	
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVIEJR202P_1.SP	
Date Stamp	mon dec 02 18:00:16 2013 Horário brasileiro de verão (GMT-2:00)	Date	mon dec 02 18:02:48 2013 Horário brasileiro de verão (GMT-2:00)	
Technique	Infrared	Instrument	Spectrum Two	Spectral Region IR
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance	Spectrum Range 550.0000 - 4000.0000
Points Count	3451	Data Spacing	1.0000	



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T: FTMS + p ESI Full ms [150.00-1500.00]

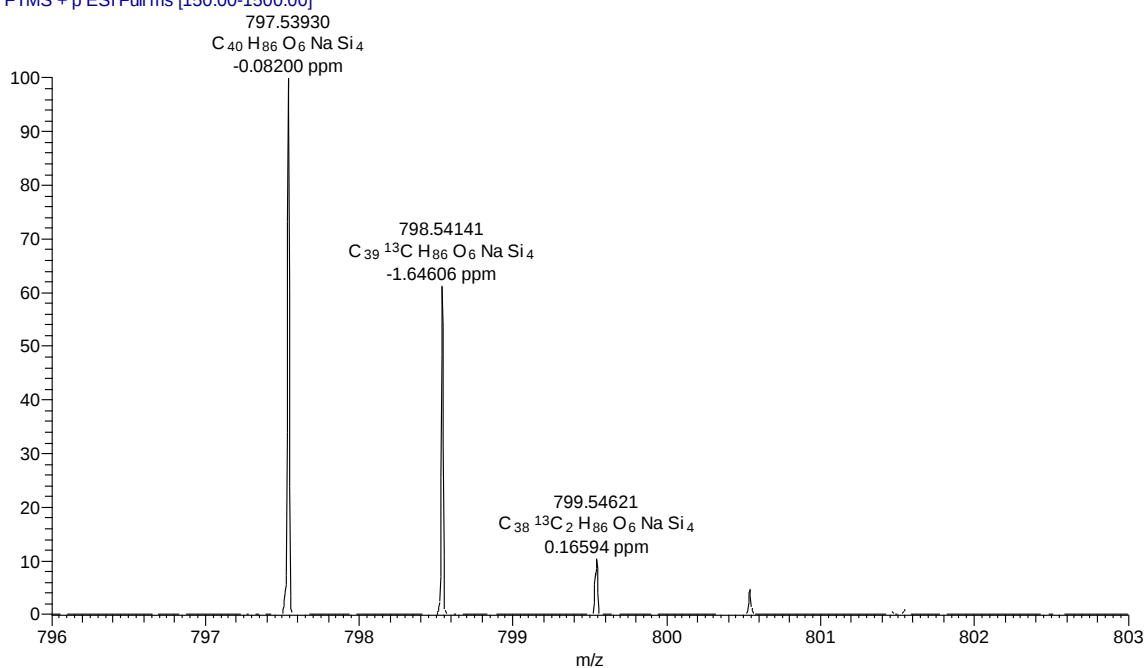


Figure S126: IR and HRMS (ESI FT-ICR-MS) spectra of compound **60**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR 203 - CD3OD - Avance 500 MHz - fev13ejrH2 - 1H	Date	19 Feb 2015 06:53:48
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2015\fev13ejrH2_001001r	Frequency (MHz)	499.87	Nucleus	1H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	MeOD	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.140

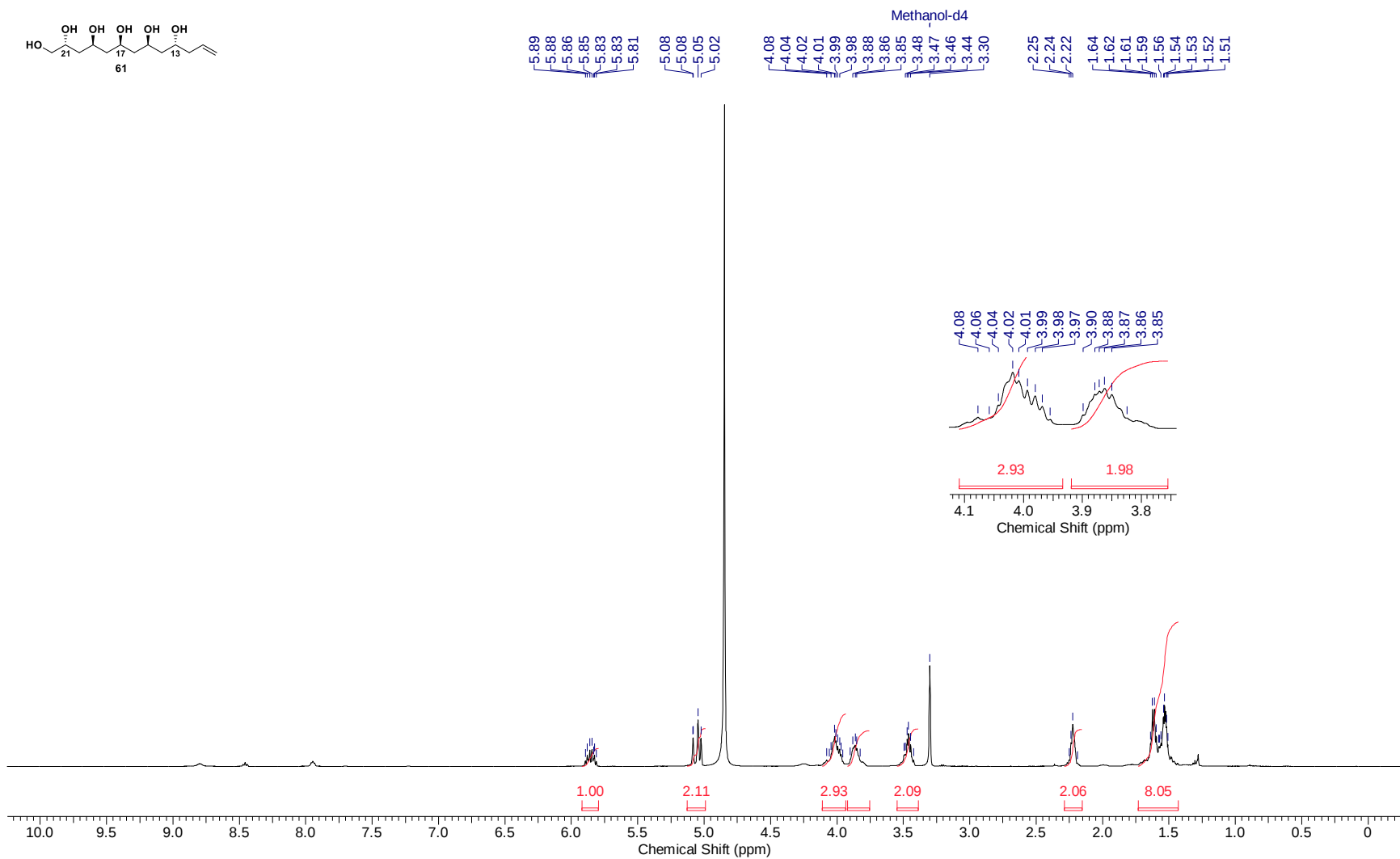


Figure S127: ¹H NMR spectrum of compound **61** (500 MHz; MeOD-d₄).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 203 - CD3OD - Avance 500 MHz - fev13ejrH2 - 13C	Date	19 Feb 2015 06:53:42
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\fev13ejrH2_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	3072	Original Points Count	16384	Points Count	32768
Solvent	MeOD	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.149
				Pulse Sequence	zgpg30

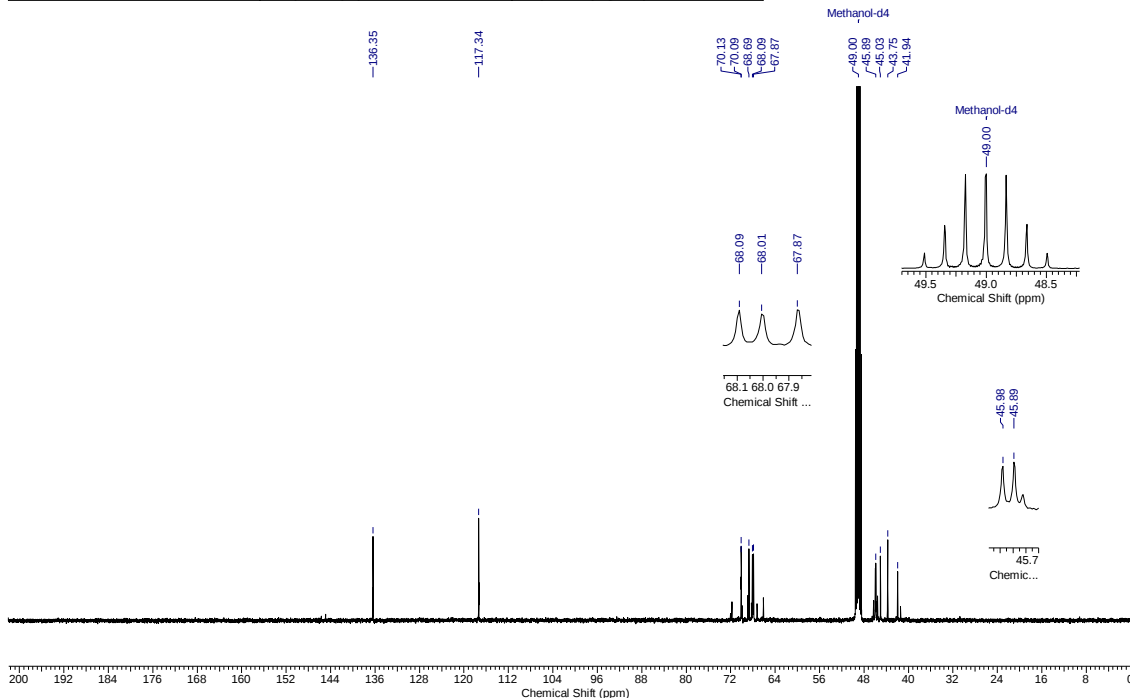


Figure S128: ^{13}C NMR spectrum of compound **61** (125 MHz; MeOD- d_4).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 203 - CD3OD - Avance 500 MHz - fev13ejrH2 - DEPT 135	File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\fev13ejrH2_003001r
Date	02 Apr 2015 13:20:42	Frequency (MHz)	125.69	Nucleus	13C
Points Count	32768	Pulse Sequence	dept135	Solvent	MeOD
Temperature (degree C)	25.149			Original Points Count	16384
				Sweep Width (Hz)	29761.90

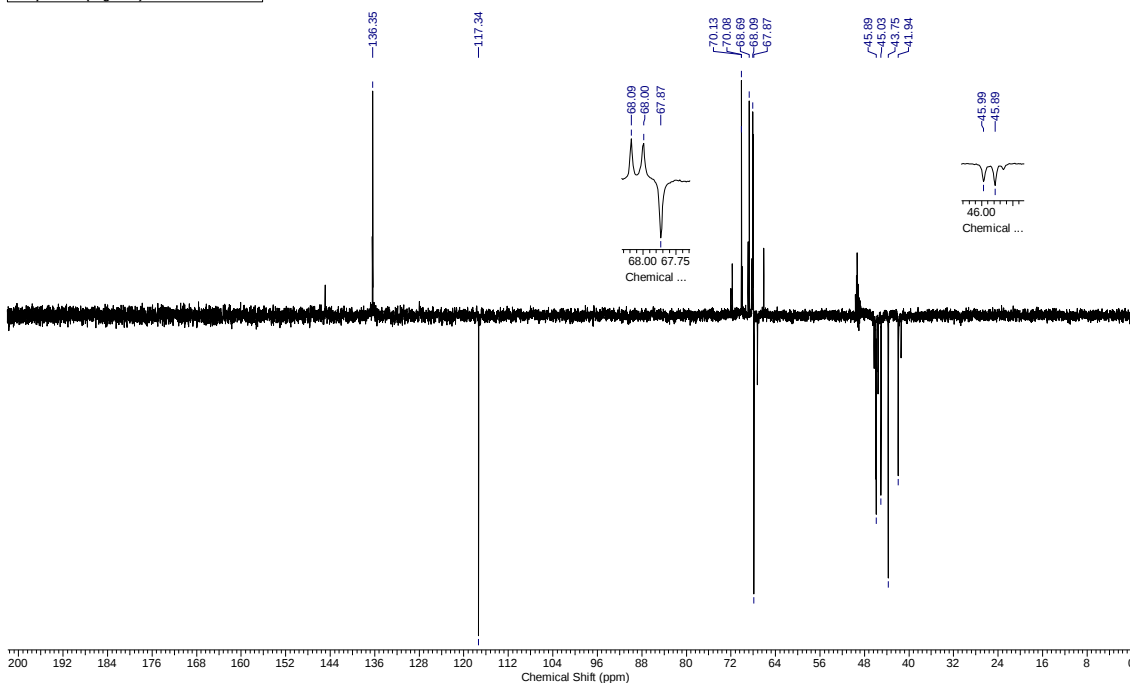


Figure S129: ^{13}C NMR (dept 135) spectrum of compound **61** (125 MHz; MeOD- d_4).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 001 por LQOS data segunda-feira, fevereiro 24 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVEJR203_1.SP	Date Stamp	mon feb 24 15:40:52 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	mon feb 24 15:41:24 2014 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two	Spectral Region	IR
Points Count	3451	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
		Data Spacing	1.0000	Spectrum Range	550.0000 - 4000.0000

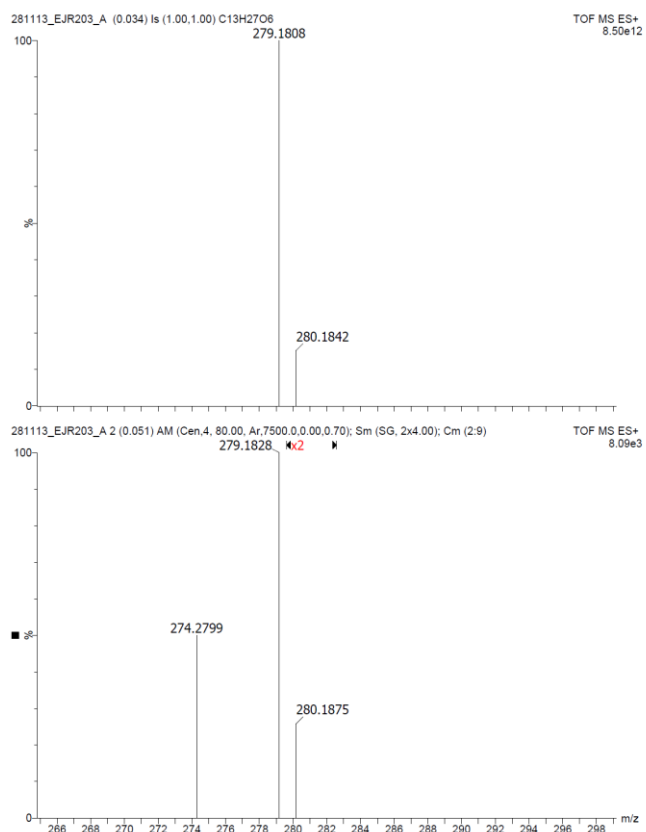
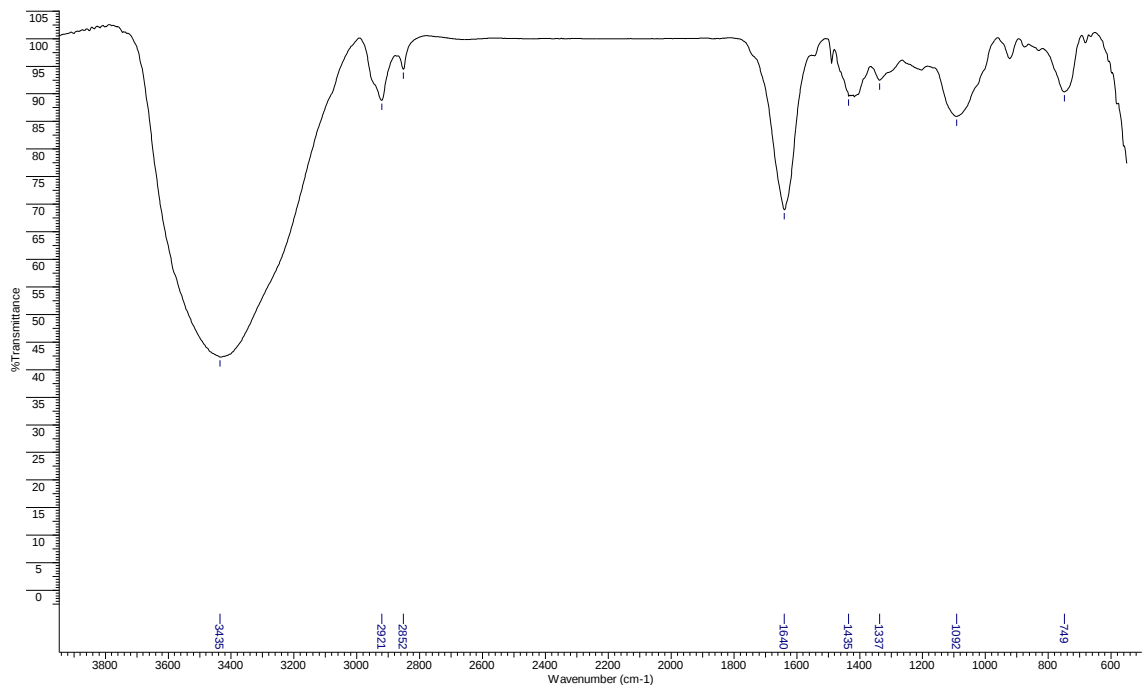


Figure S130: IR and HRMS (ESI TOF-MS) spectra of compound **61**.

Emilio - EJR 203 - MeOD - Avance 400 MHz - fev19ejrH1 - COSY

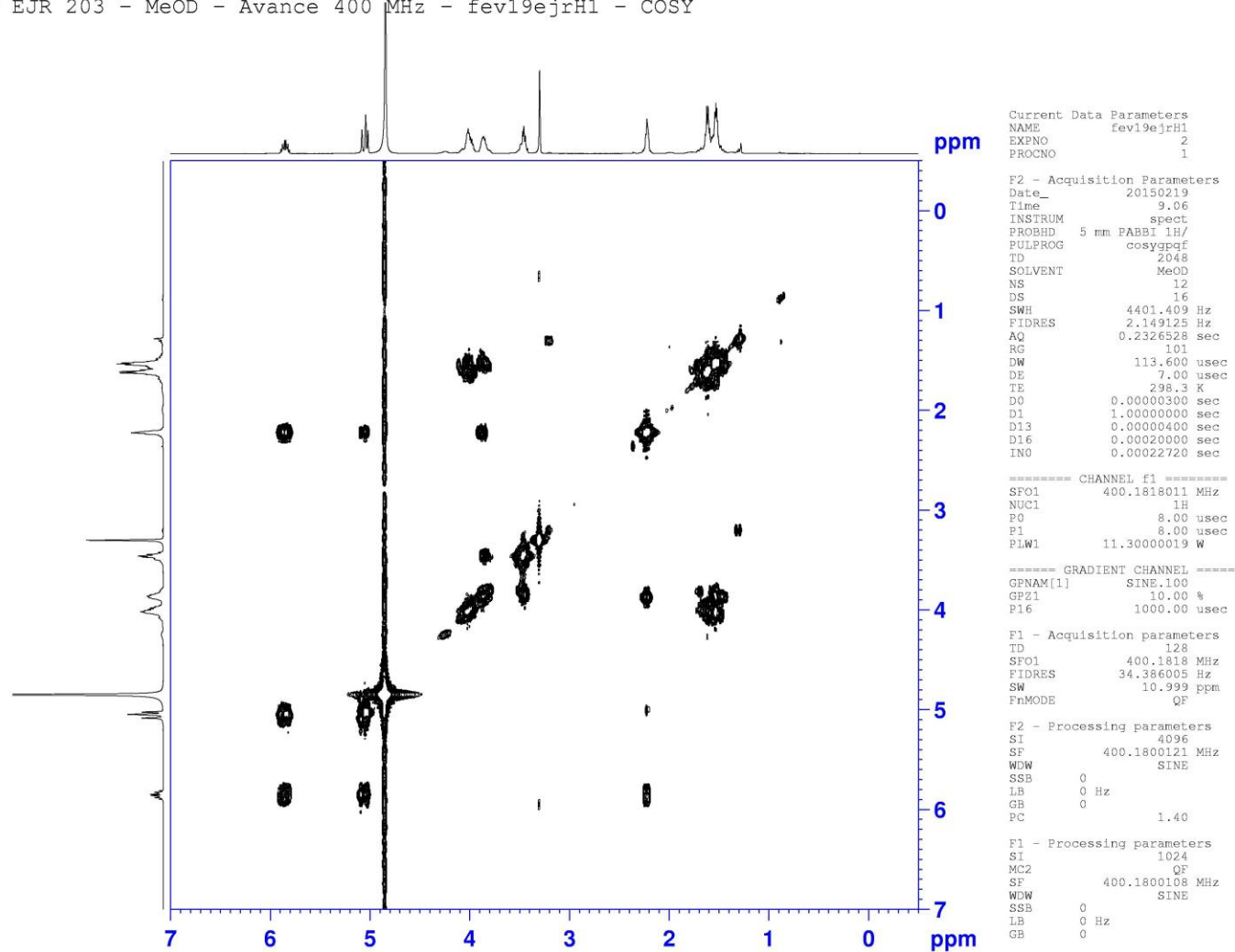


Figure S131: COSY contour map of compound **61** (400 MHz; MeOD-*d*₄).

Emilio - EJR 203 - MeOD - Avance 400 MHz - fev19ejrH1 - HSQC

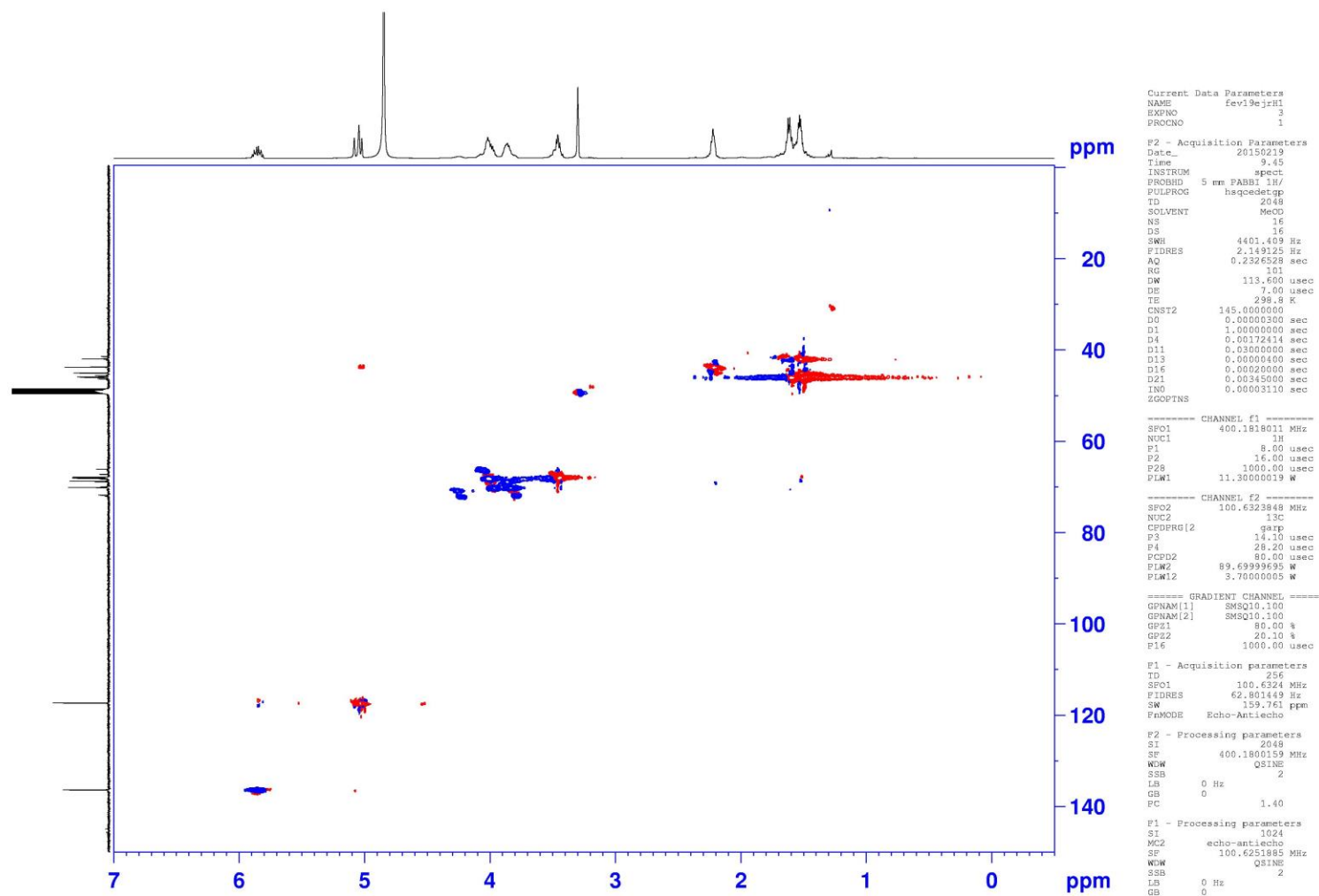


Figure S132: HSQC contour map of compound **61**.

Emilio - EJR 203 - MeOD - Avance 400 MHz - fev19ejrH1 - HMBC

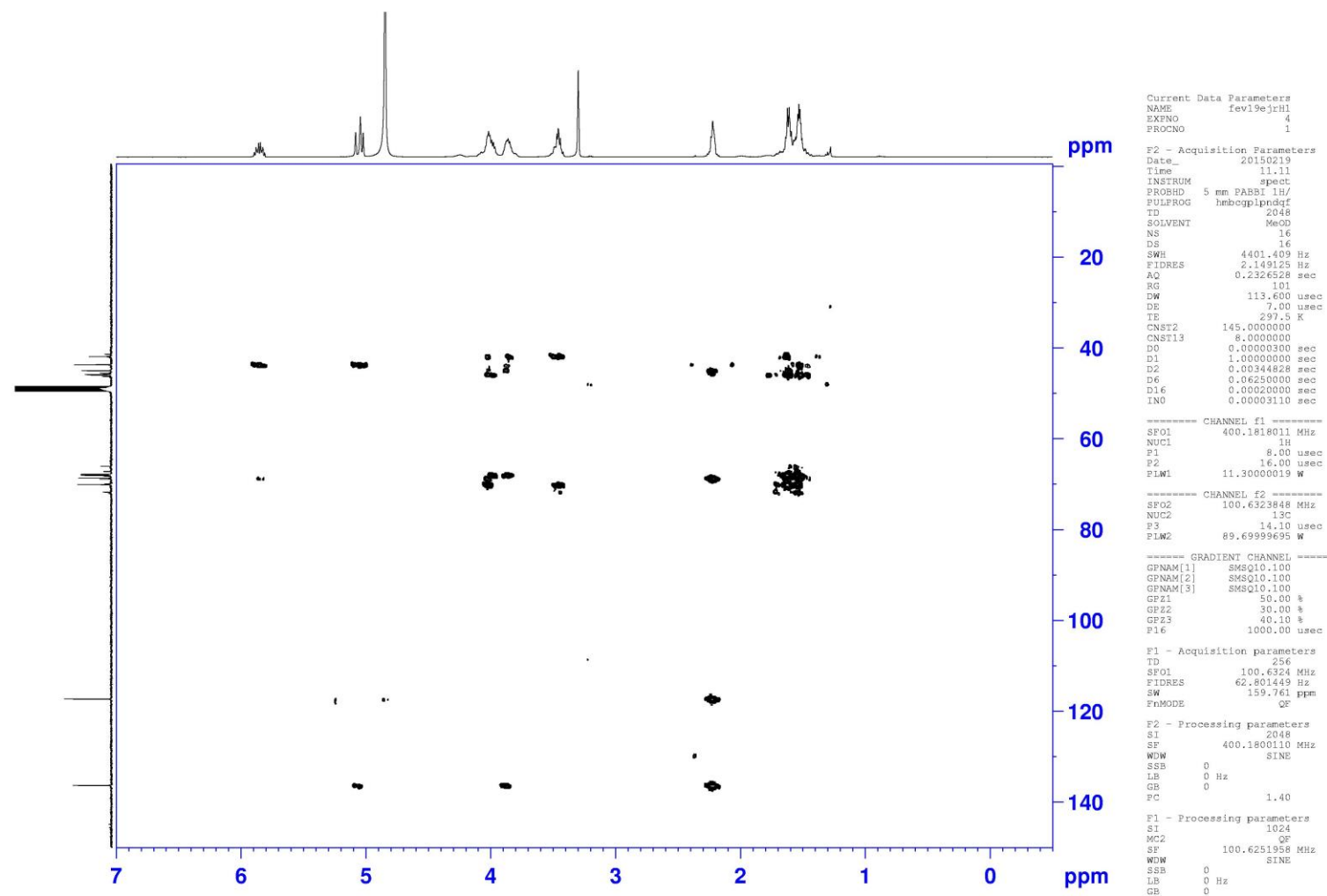


Figure S133: HMBC contour map of compound **61**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR 326 P - CDCl ₃ - Avance 500 MHz - ago05ejrH1 - 1H	Date	05 Aug 2014 11:37:36
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\ago05ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.161

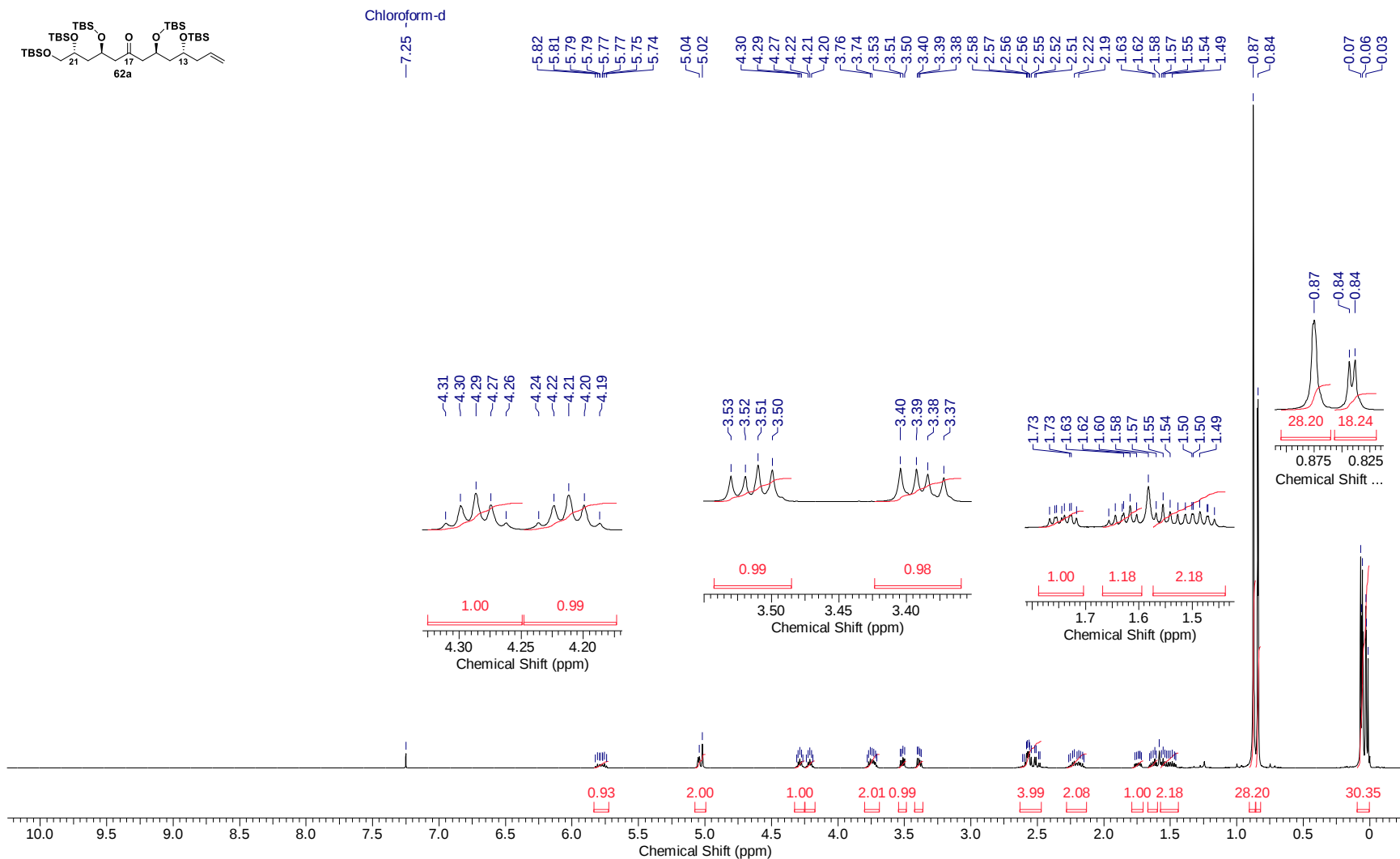


Figure S134: ¹H NMR spectrum of compound **62a** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 326 P - CDCl ₃ - Avance 500 MHz - ago05ejrH1 - 13C	Date	05 Aug 2014 12:32:42
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\ago05ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	3072	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.151
				Pulse Sequence	zgpg30

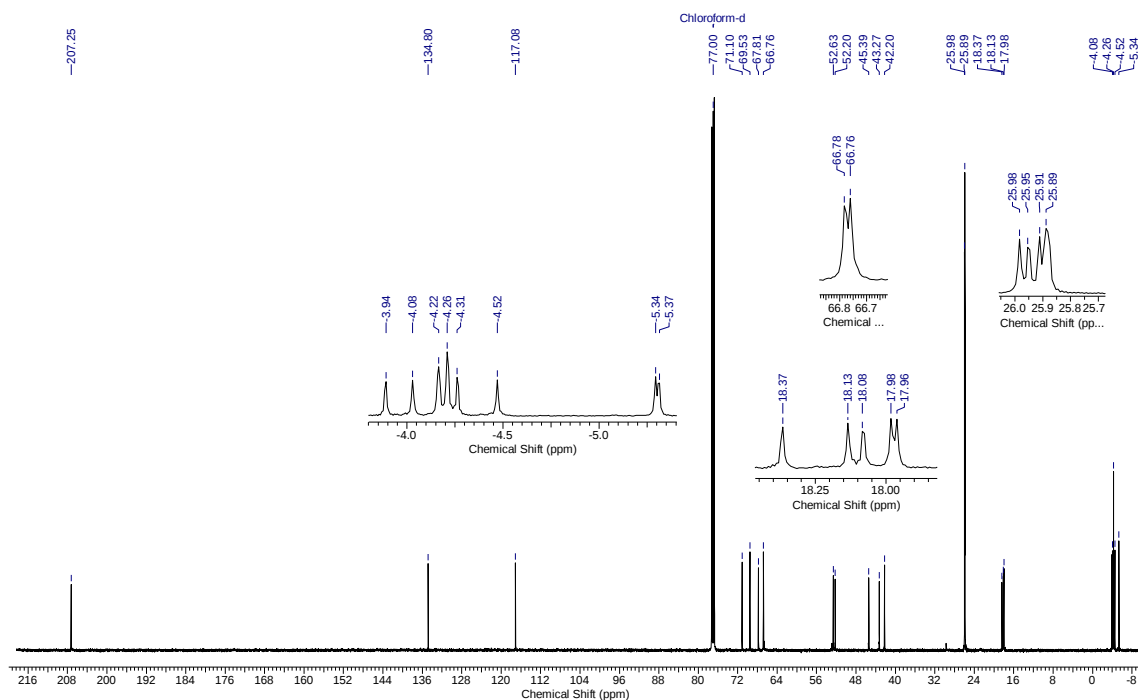


Figure S135: ¹³C NMR spectrum of compound **62a** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 326 P - CDCl ₃ - Avance 500 MHz - ago05ejrH1 - DEPT 135	Date	05 Aug 2014 12:45:26
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\ago05ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	512	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.152
				Pulse Sequence	dept135

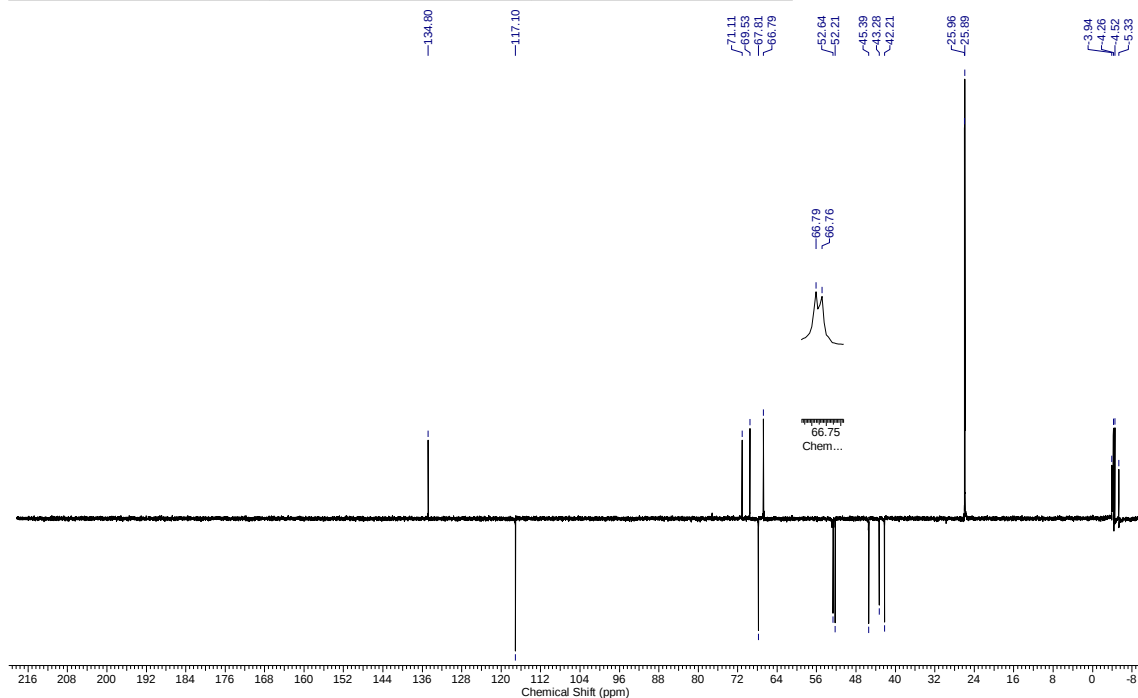
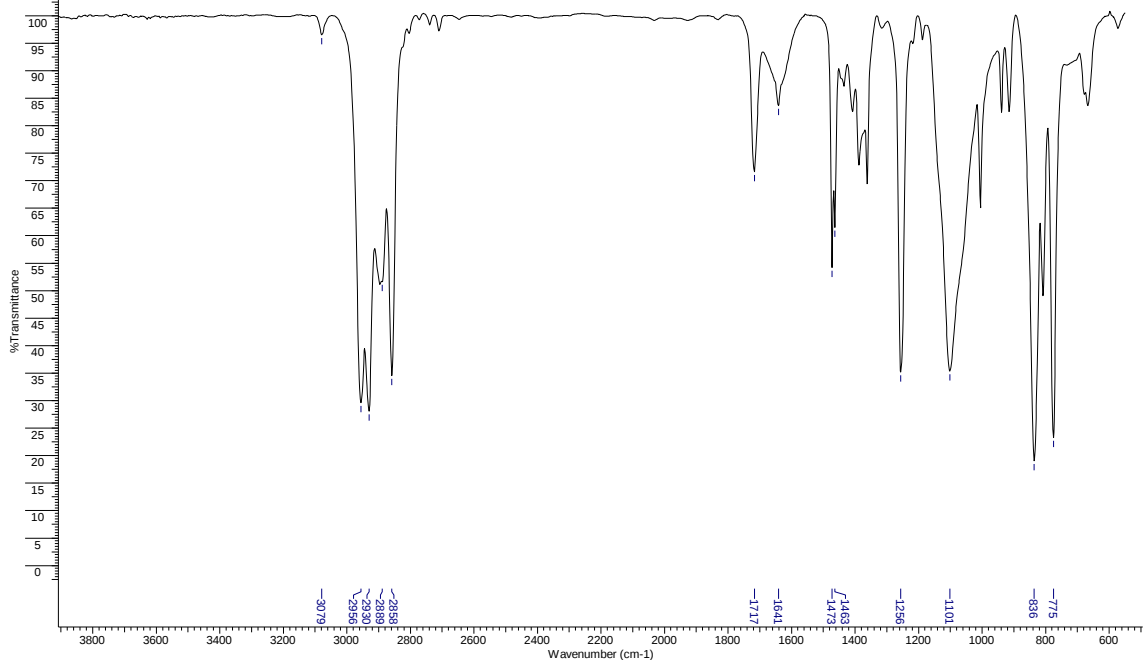


Figure S136: ¹³C NMR (dept 135) spectrum of compound **62a** (125 MHz; CDCl₃).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 048 por LOOS data sexta-feira, janeiro 09 2015
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\IIV\JR326P_1.SP
Date Stamp	fri jan 09 10:52:21 2015 Horário brasileiro de verão (GMT-2:00)	Date	fri jan 09 10:53:52 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm ⁻¹)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000



B014 #61 RT: 0.92 AV: 1 NL: 2.00E8
T: FTMS + p ESI Full ms [150.00-1500.00]

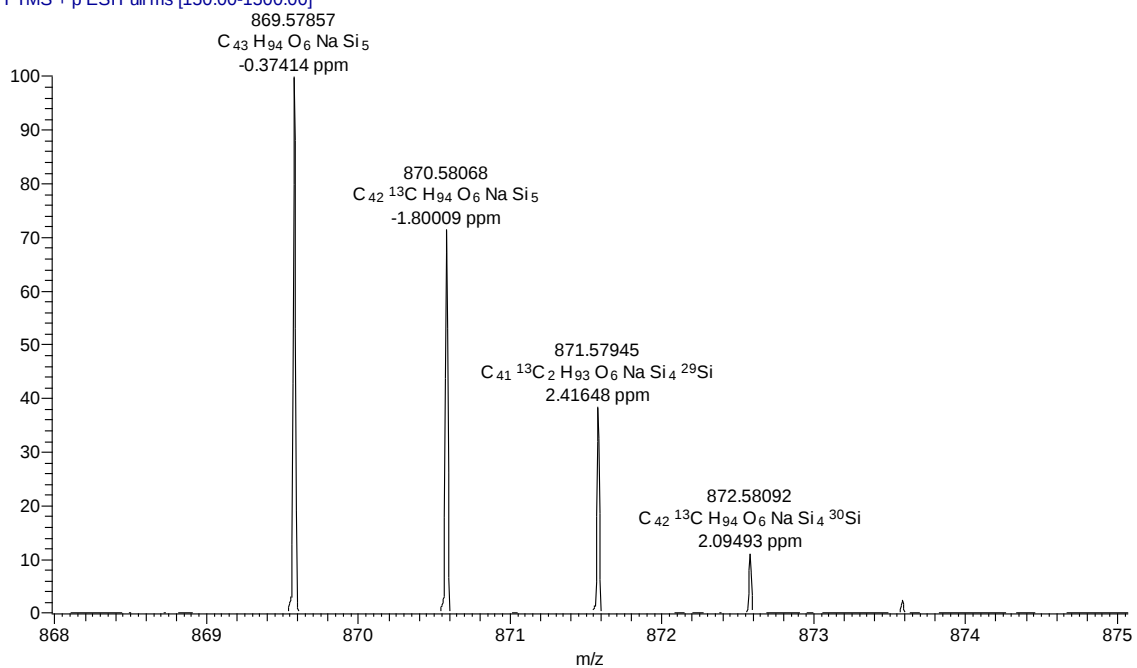


Figure S137: IR and HRMS (ESI FT-ICR-MS) spectra of compound **62a**.

Acquisition Time (sec)	1.6384	Comment	dez13ejrH1 2013 500MHz EJ227P	Date	13 Dec 2013 13:16:12
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2013\dez13ejrH1_001001r	Frequency (MHz)	499.87	Points Count	65536
Nucleus	¹ H	Number of Transients	16	Original Points Count	16384
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00
Temperature (degree C)	25.136				

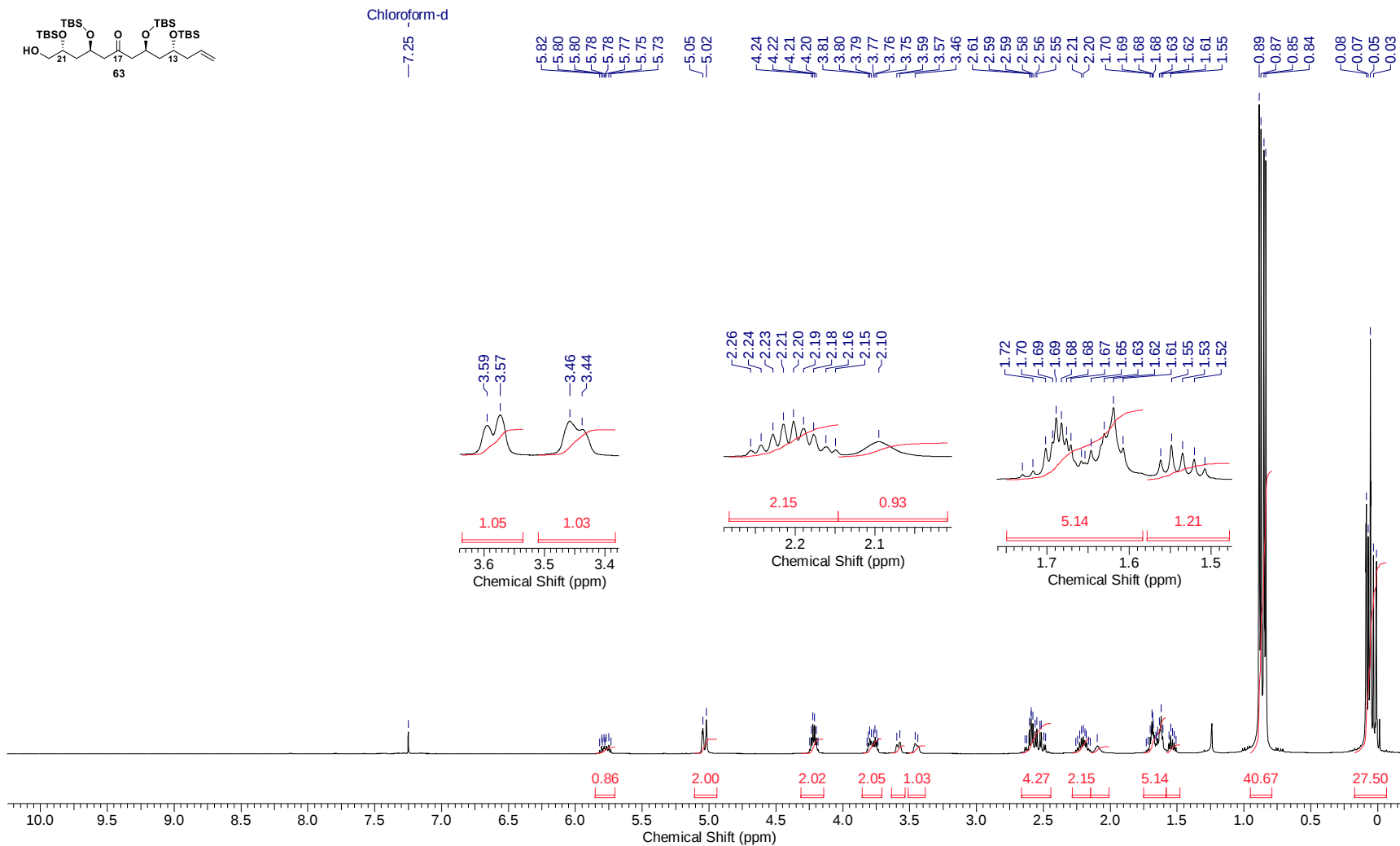


Figure S138: ¹H NMR spectrum of compound **63** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio-EJR 227 P - CDCl ₃ - Avance 500 MHz - dez13ejrH1 - 13C	Date	13 Dec 2013 17:05:38
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\dez13ejrC1_001001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	720	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.142
				Pulse Sequence	zgpg30

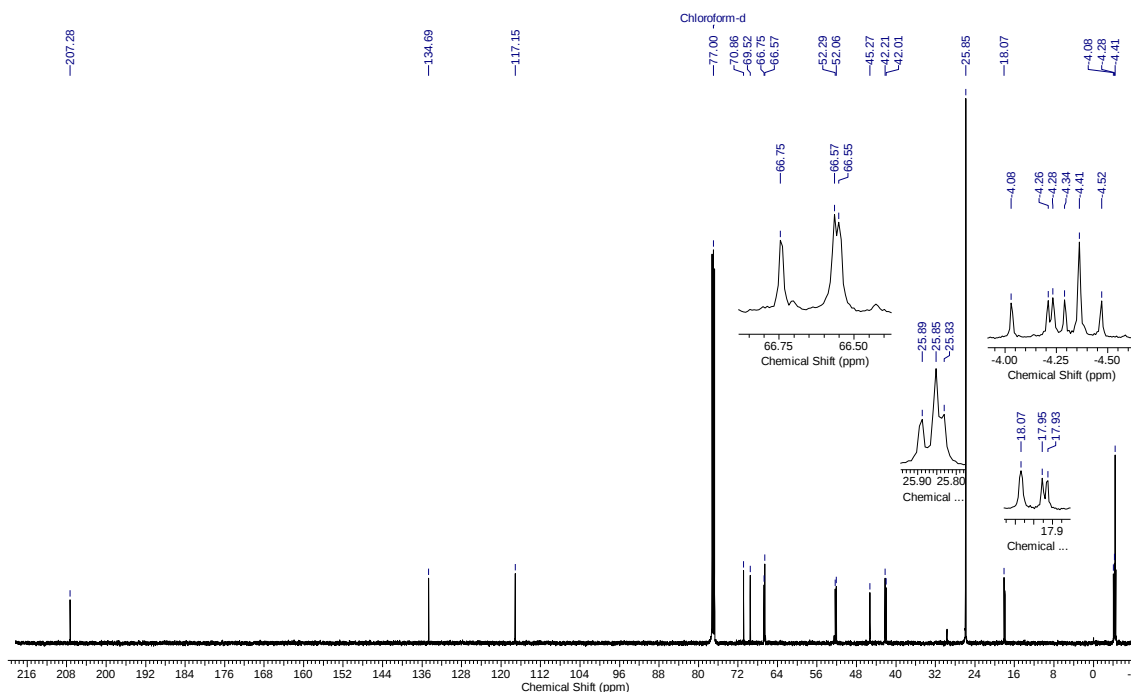


Figure S139: ¹³C NMR spectrum of compound **63** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio-EJR 227 P - CDCl ₃ - Avance 500 MHz - dez13ejrH1 - DEPT 135	Date	13 Dec 2013 17:05:50
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\dez13ejrC1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	128	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.161
				Pulse Sequence	dept135

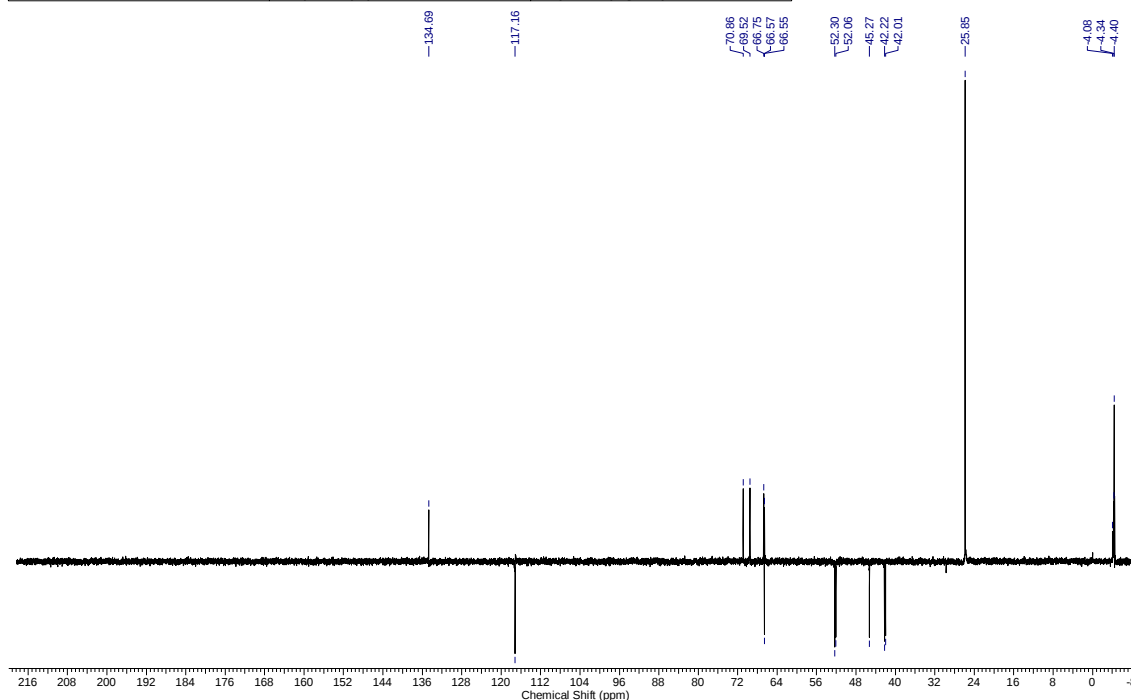
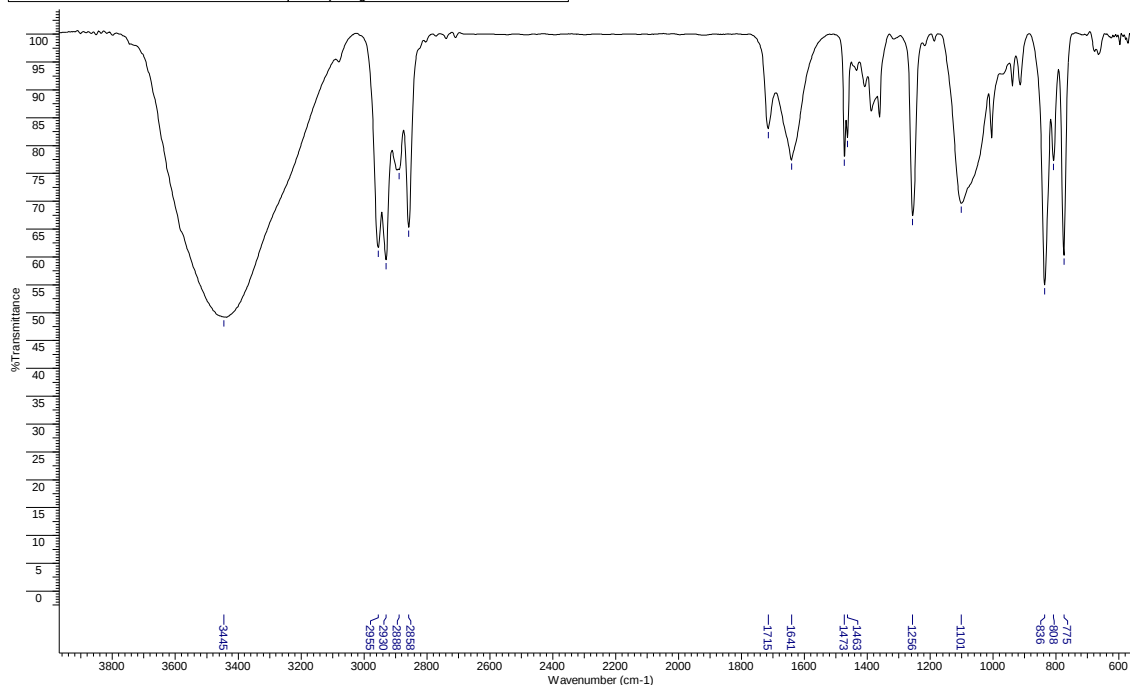


Figure S140: ¹³C NMR (dept 135) spectrum of compound **63** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 010 por LQOS data segunda-feira, fevereiro 24 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVEJR227P_1.SP	Date Stamp	mon feb 24 13:42:08 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	mon feb 24 13:43:06 2014 Hora oficial do Brasil (GMT-3:00)	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Spectral Region	IR	Data Spacing	1.0000	Instrument	Spectrum Two
Points Count	3451			Spectrum Range	550.0000 - 4000.0000



B004 #20 RT: 0.30 AV: 1 NL: 7.78E7
T: FTMS + p ESI Full ms [150.00-1500.00]

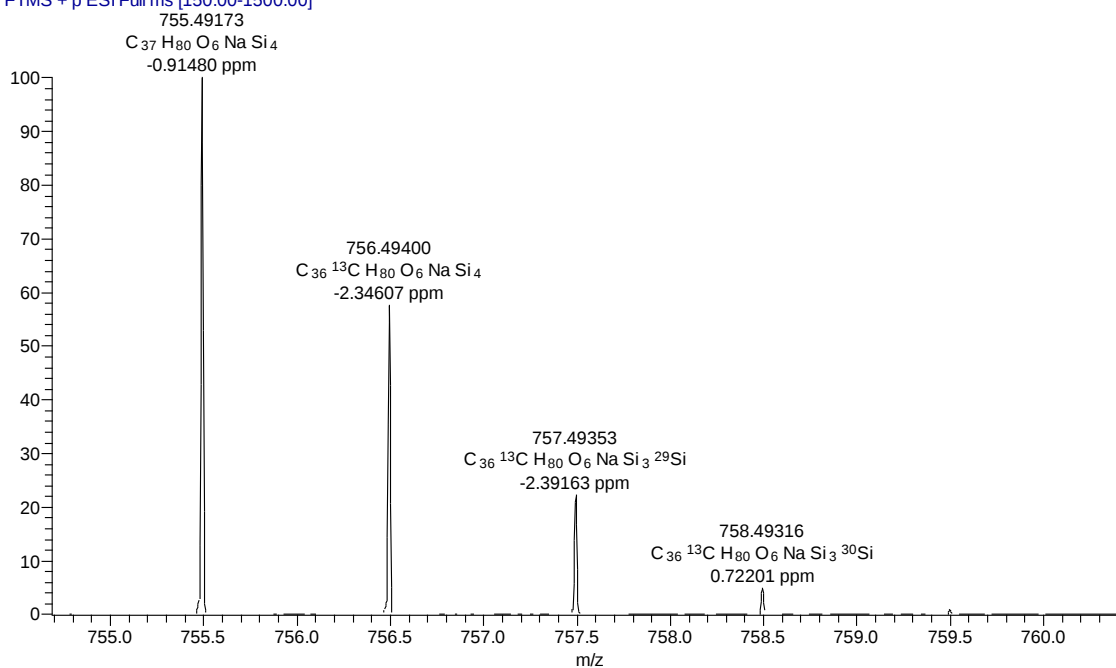


Figure S141: IR and HRMS (ESI FT-ICR-MS) spectra of compound **63**.

Acquisition Time (sec)	0.5505	Comment	Emilio "EJR-222" c6d6/ Av500MHz dez17ejrH1 - 13C	Date	18 Dec 2013 07:17:14
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\dez17ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	1024	Original Points Count	16384	Points Count	32768
Solvent	BENZENE-D6	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.141

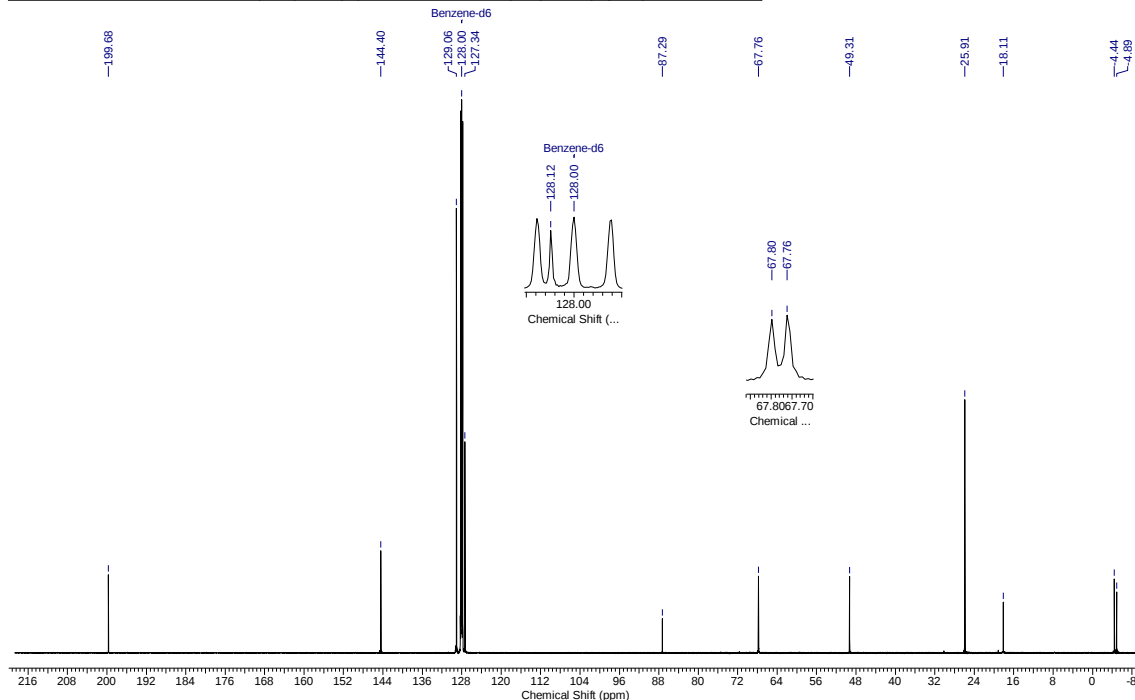


Figure S143: ^{13}C NMR spectrum of compound **14b** (125 MHz; C_6D_6).

Acquisition Time (sec)	0.5505	Comment	Emilio "EJR-222" c6d6/ Av500MHz dez17ejrH1 - Dept135	Date	18 Dec 2013 07:17:30
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2013\dez17ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	256	Original Points Count	16384	Points Count	32768
Solvent	BENZENE-D6	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.155

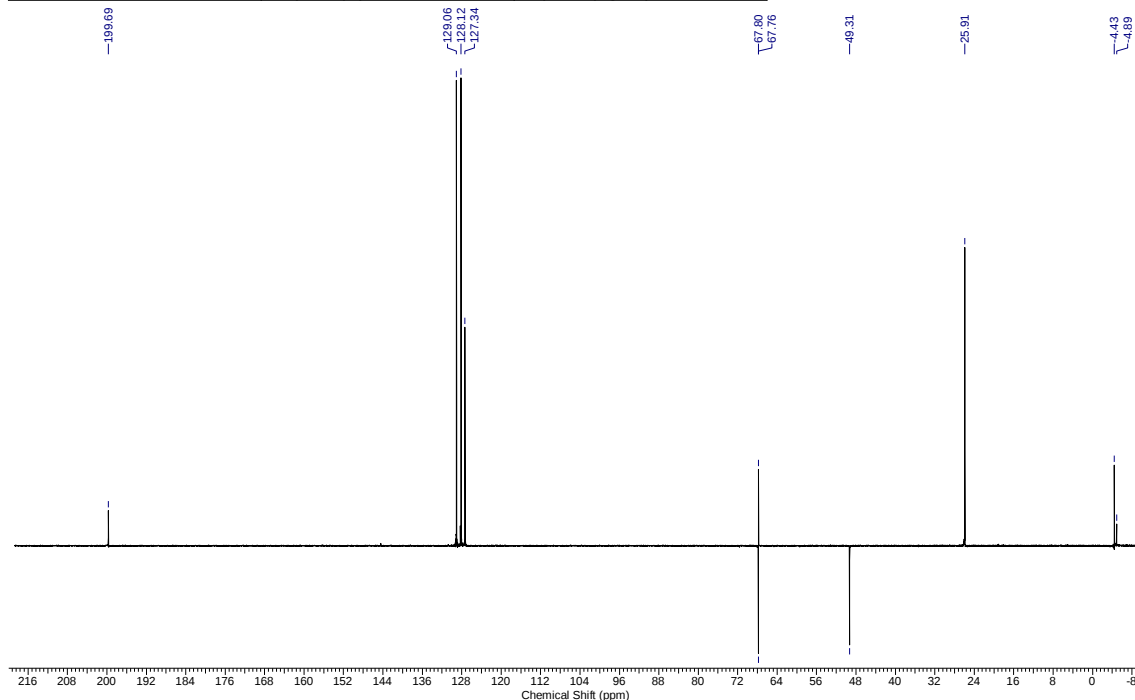
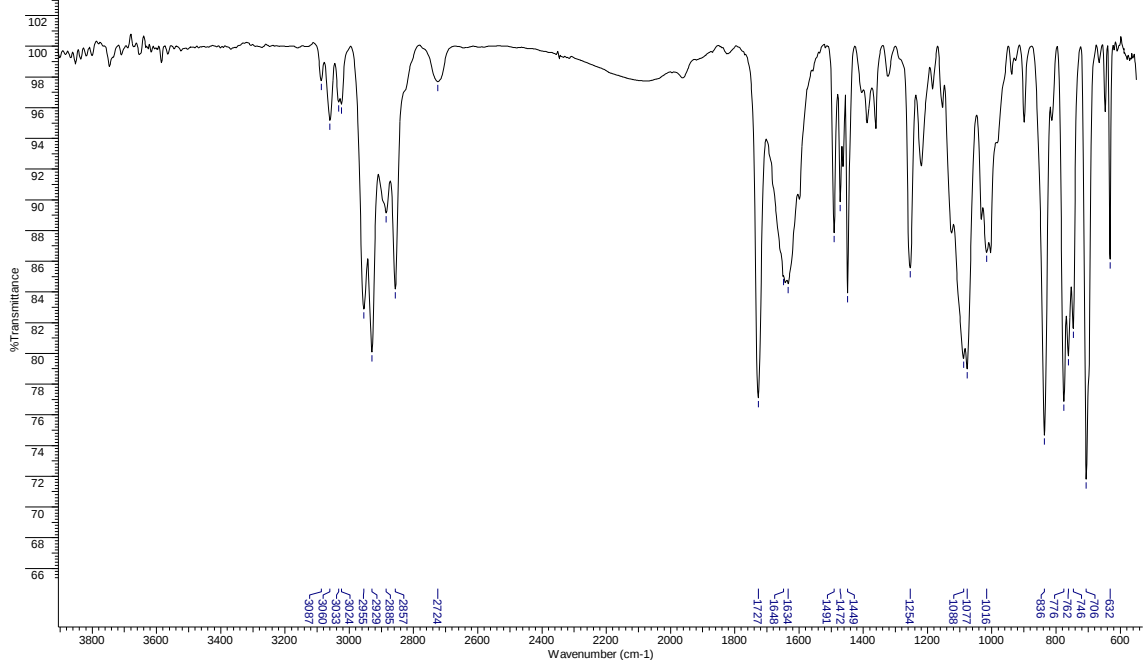


Figure S144: ^{13}C NMR (dept 135) spectrum of compound **14b** (125 MHz; C_6D_6).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 012 por LQOS data sexta-feira, dezembro 20 2013
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USER\SEMILIO\DESKTOP\IDOUTORADO\IIVEJR222_1.SP
Date Stamp	Fri Dec 20 17:41:06 2013 Horário brasileiro de verão (GMT-2:00)	Date	Fri Dec 20 17:42:47 2013 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	% Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000



B001 #23 RT: 0.35 AV: 1 NL: 1.44E8
T: FTMS + p ESI Full ms [150.00-1500.00]

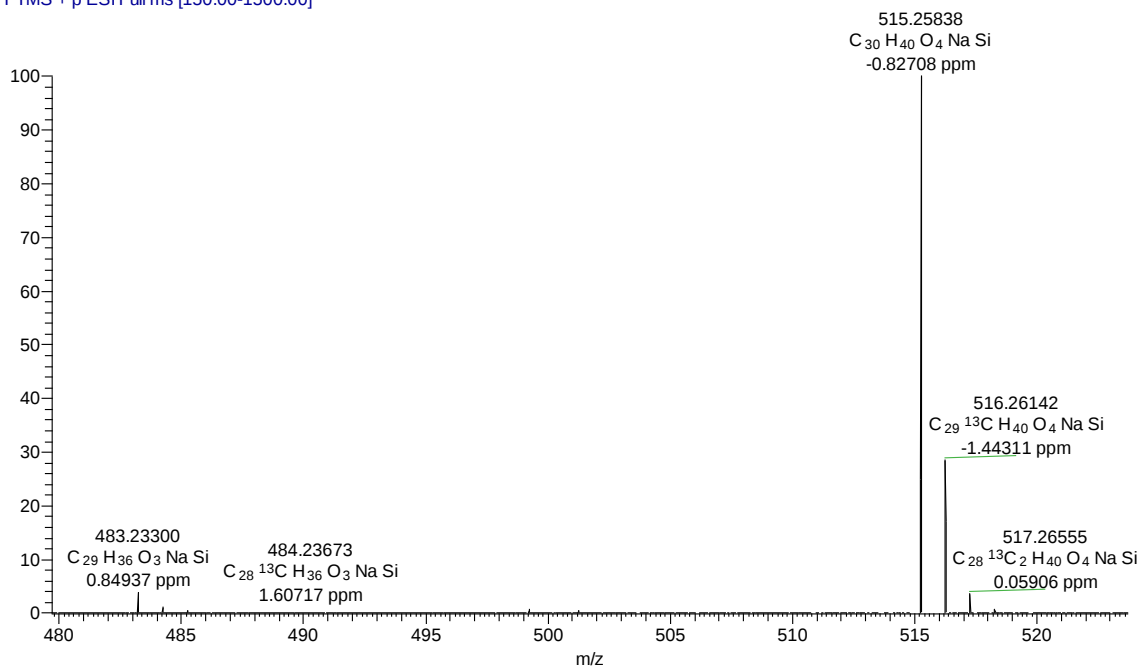


Figure S145: IR and HRMS (ESI FT-ICR-MS) spectra of compound **14b**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR-224P - CDCl ₃ - Av 500 MHz - jan22ejrH1	Date	22 Jan 2014 14:09:48
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\jan22ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.150
				Pulse Sequence	zg30

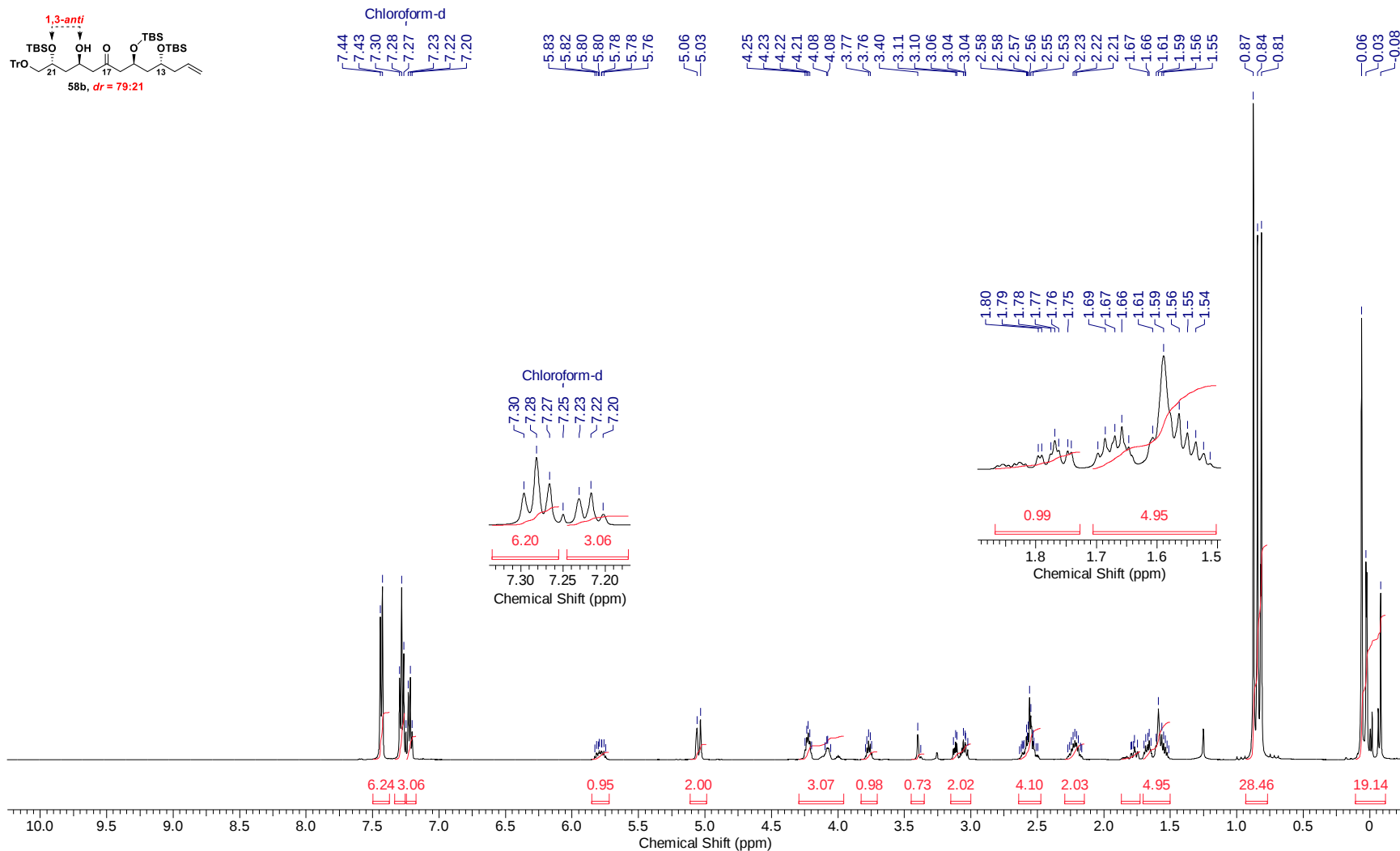


Figure S146: ¹H NMR spectrum of compound **58b** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.9961	Comment	Emilio - EJR-224P - CDCl ₃ - Av 500 MHz - jan22ejrH1 13C sem NOE	Date	23 Jan 2014 08:36:36
File Name	C:\Users\Emilio\Desktop\Boutoradol\RMN\2014\jan22ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	1024	Original Points Count	32768	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	32894.74	Temperature (degree C)	25.148

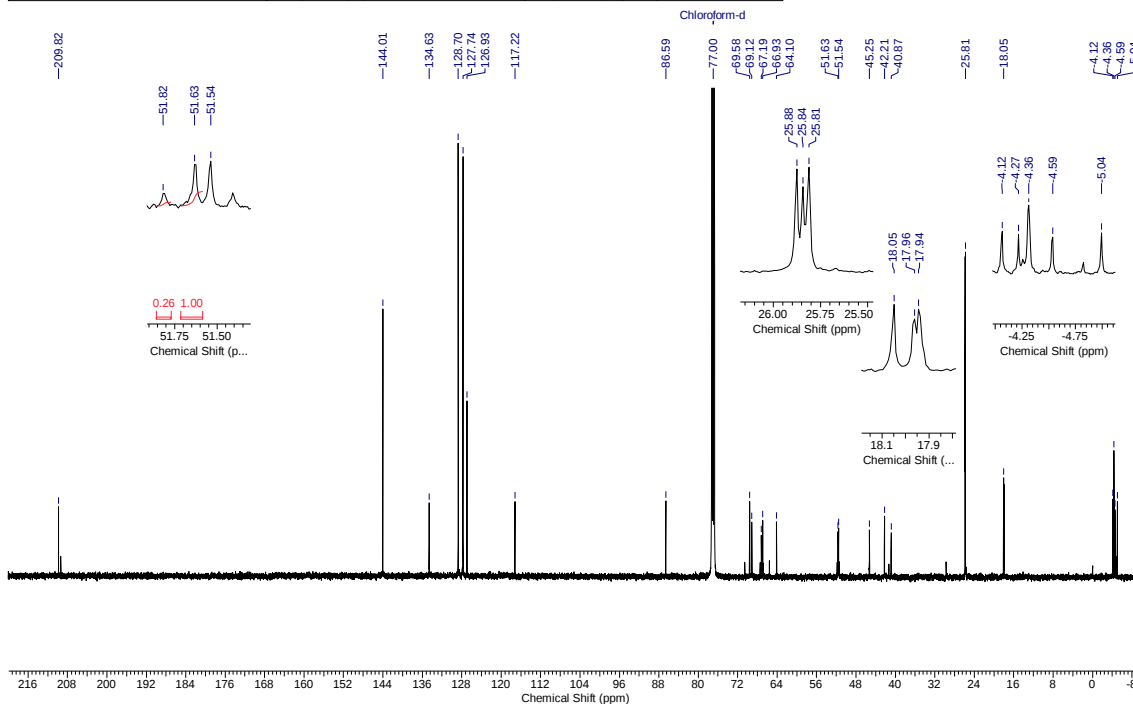


Figure S147: ¹³C NMR spectrum of compound **58b** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-224P - CDCl ₃ - Av 500 MHz - jan22ejrH1 DEP135	Date	22 Jan 2014 14:56:20
File Name	C:\Users\Emilio\Desktop\Boutoradol\RMN\2014\jan22ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	1400	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.143

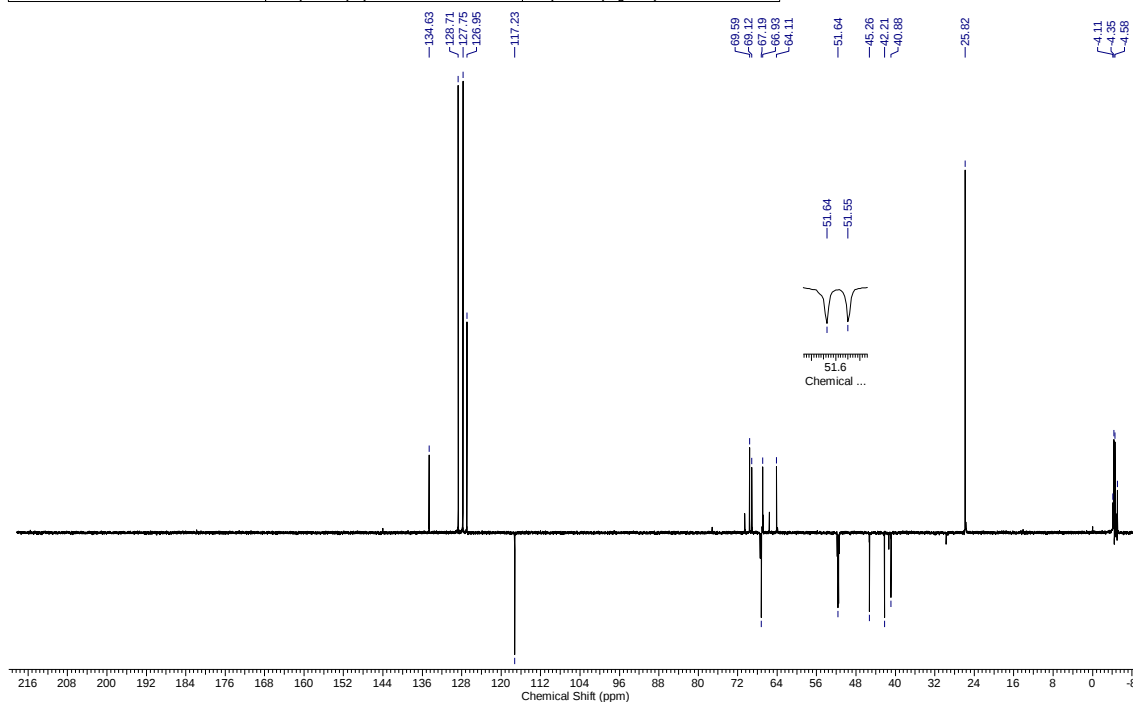
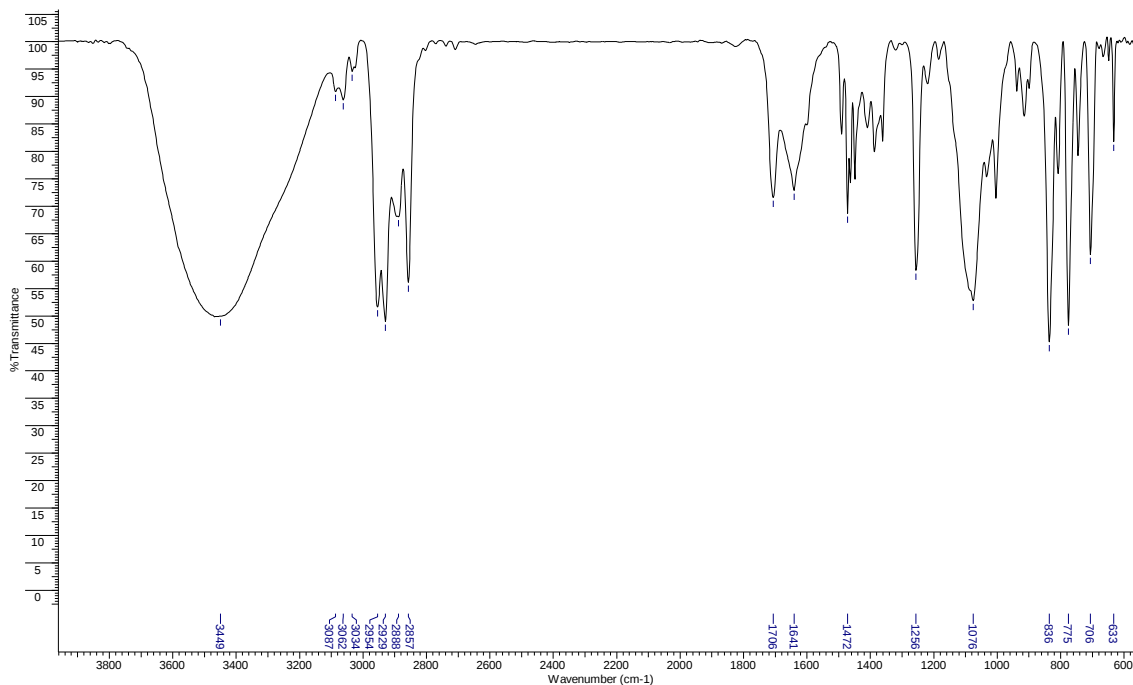


Figure S148: ¹³C NMR (dept 135) spectrum of compound **58b** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 008 por LQOS data segunda-feira, fevereiro 24 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\OUTORADO\IVEJR224P_1.SP	Date Stamp	mon feb 24 13:23:48 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	mon feb 24 13:25:06 2014 Hora oficial do Brasil (GMT-3:00)	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Spectral Region	IR	Data Spacing	1.0000	Instrument	Spectrum Two
Points Count	3451			Spectrum Range	550.0000 - 4000.0000



B002 #27 RT: 0.41 AV: 1 NL: 4.55E7

T: FTMS + p ESI Full ms [150.00-1500.00]

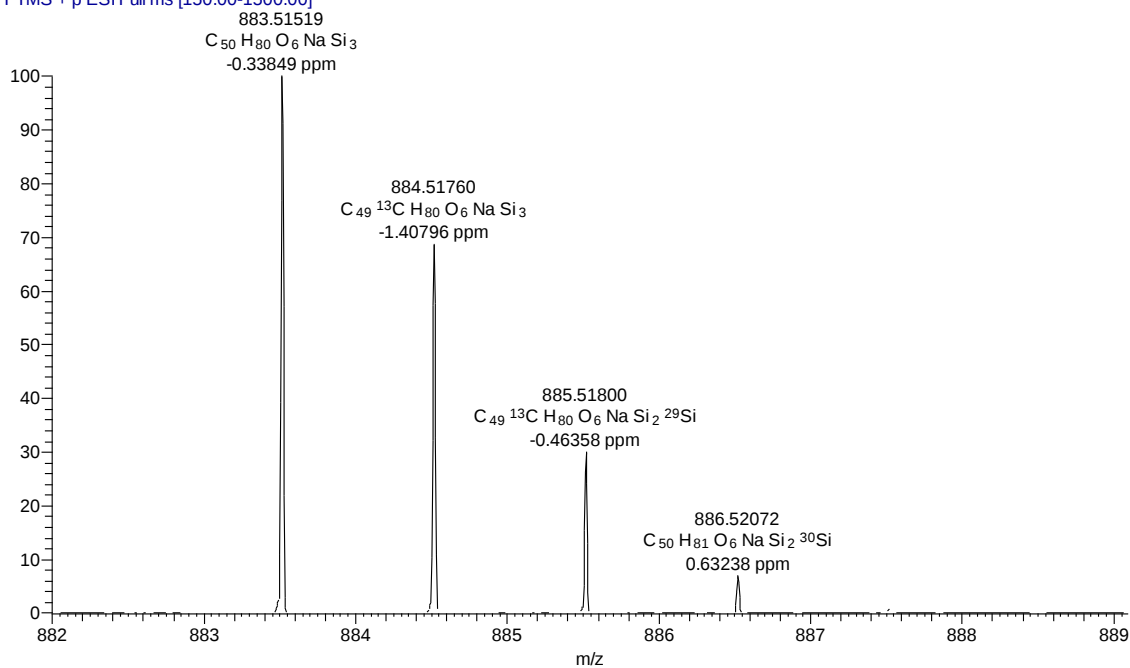


Figure S149: IR and HRMS (ESI FT-ICR-MS) spectra of compound **58b**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR 225P - CDCl ₃ - Avance 500 MHz - jan27ejrH1 - 1H	Date	27 Jan 2014 10:57:20
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\jan27ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.148

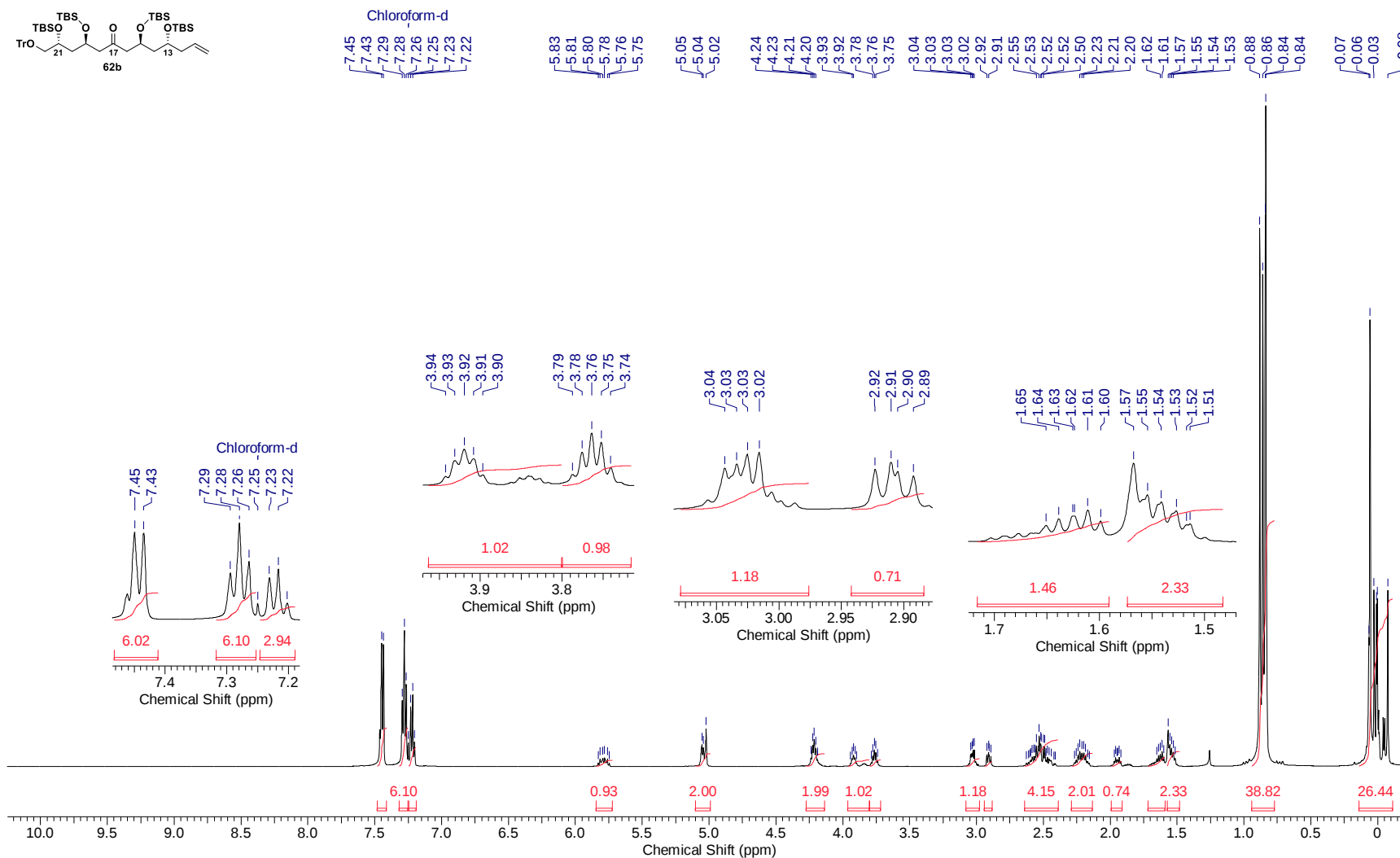


Figure S150: ¹H NMR spectrum of compound **62b** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 225P - CDCl ₃ - Avance 500 MHz - jan27ejrH1 - 13C	Date	27 Jan 2014 10:57:40
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\jan27ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	1690	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.301
				Pulse Sequence	zgpg30

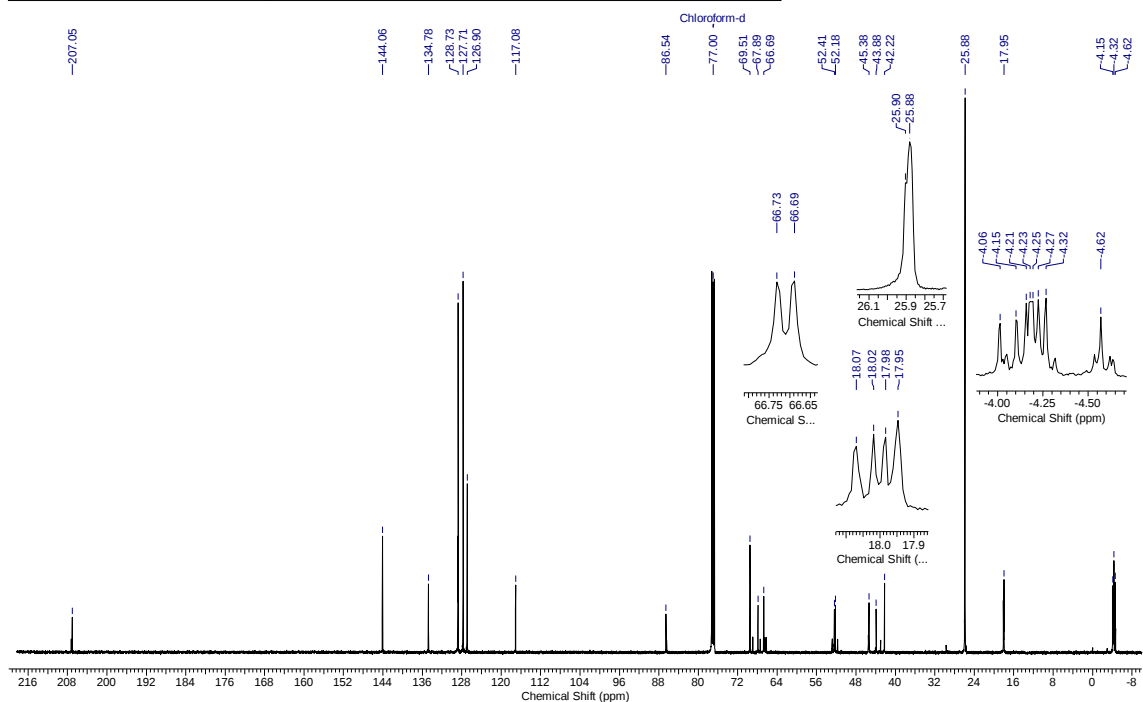


Figure S151: ¹³C NMR spectrum of compound **62b** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 225P - CDCl ₃ - Avance 500 MHz - jan27ejrH1 - DEPT 135	Date	27 Jan 2014 11:41:08
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\jan27ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	512	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.131
				Pulse Sequence	dept135

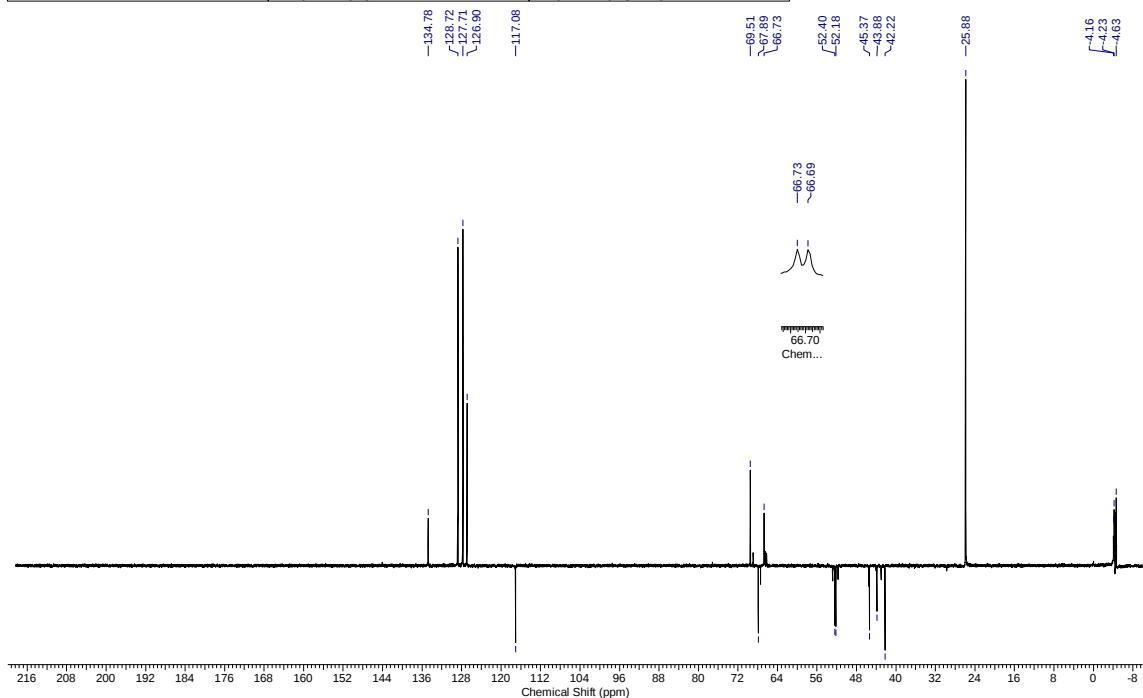
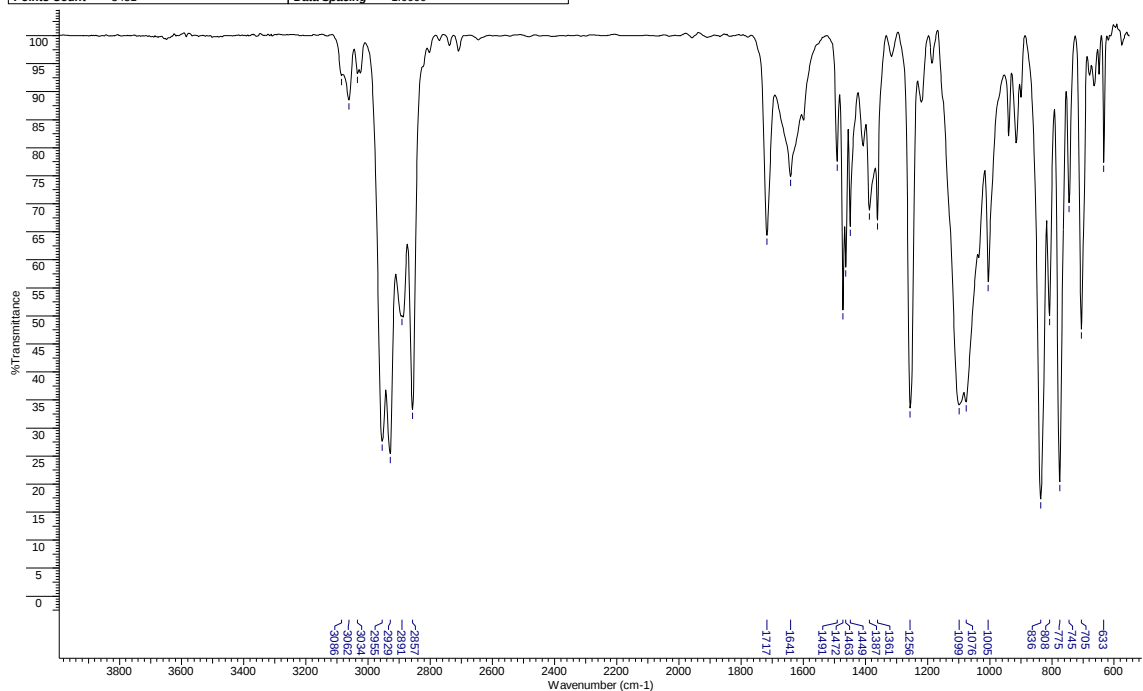


Figure S152: ¹³C NMR (dept 135) spectrum of compound **62b** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 009 por LQOS data segunda-feira, fevereiro 24 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVEJR225P_1.SP	Date Stamp	mon feb 24 13:32:17 2014 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	mon feb 24 13:34:20 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm ⁻¹)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		



B003 #55 RT: 0.98 AV: 1 NL: 5.59E5
T: FTMS + p ESI Full ms [150.00-1500.00]

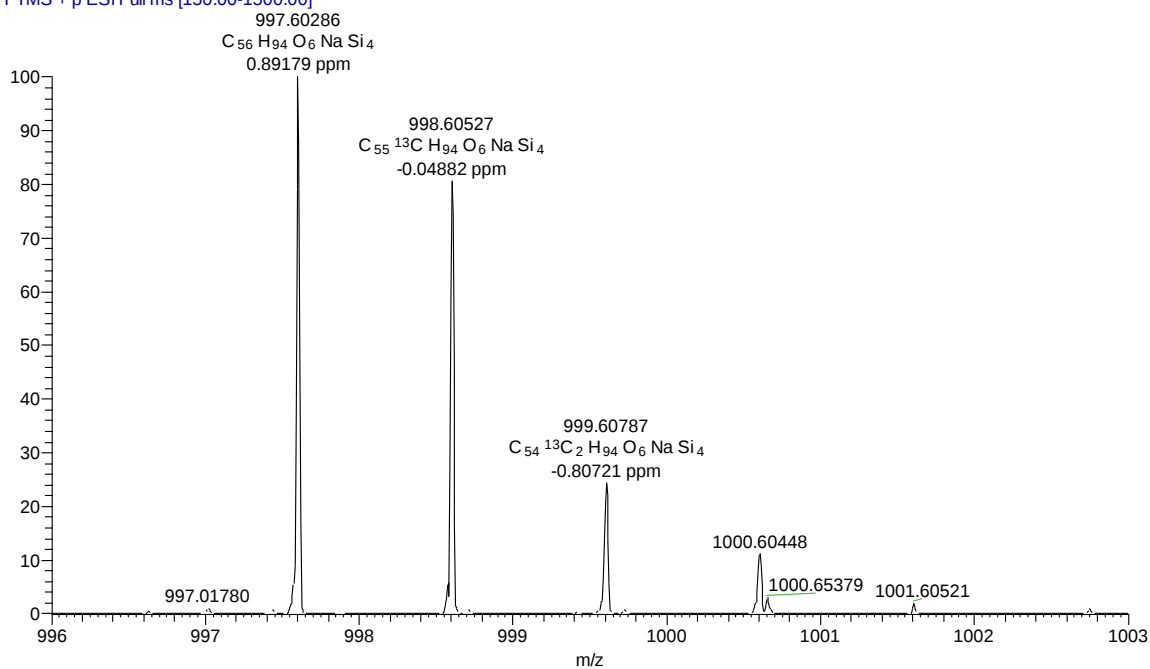


Figure S153: IR and HRMS (ESI FT-ICR-MS) spectra of compound **62b**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR-327 - CDCl ₃ - Av 500MHz - jul21ejrH1	Date	22 Jul 2014 09:09:48
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\jul21ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.150

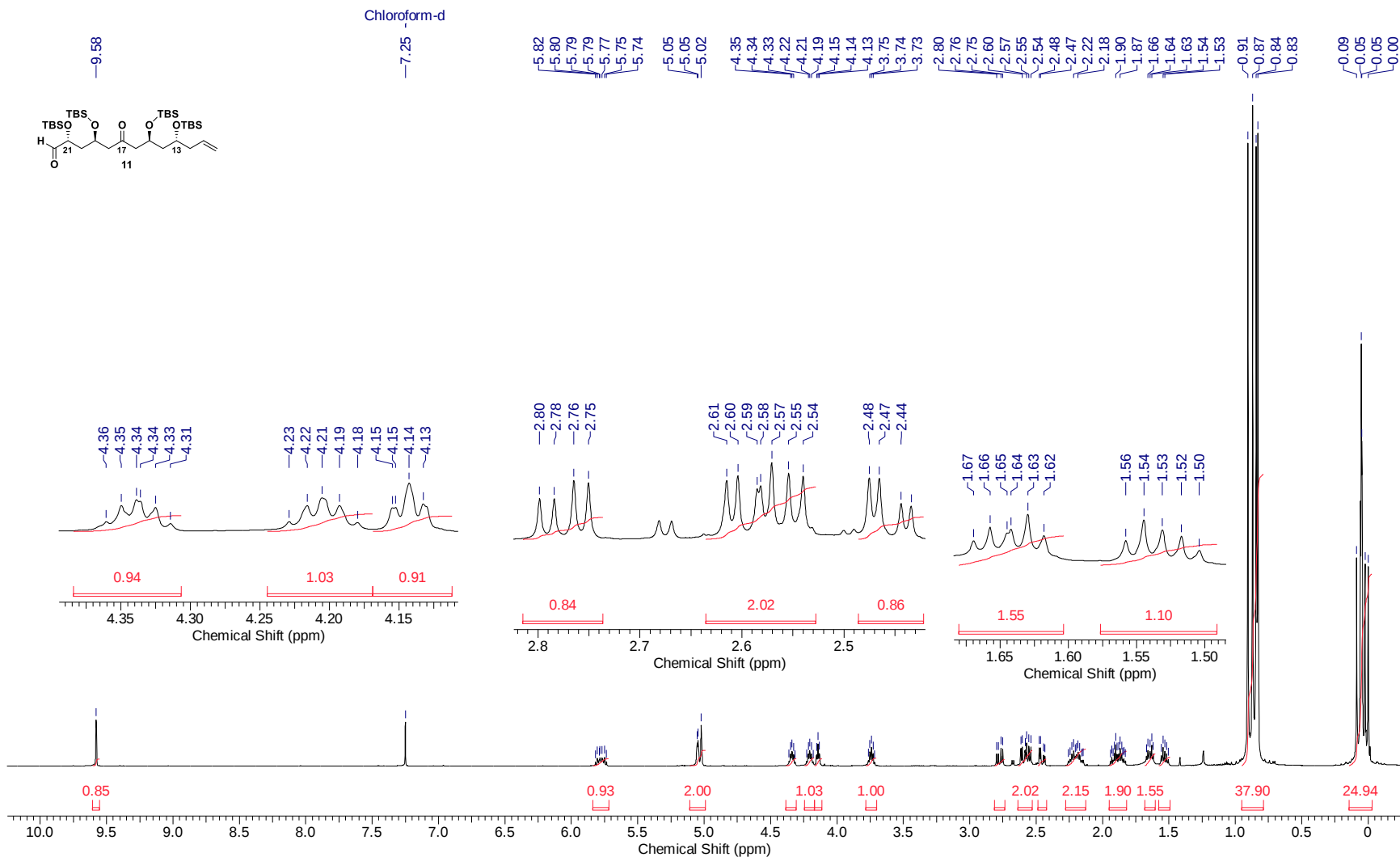


Figure S154: ¹H NMR spectrum of compound **11** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-327 - CDCl ₃ - Av 500MHz - jul21ejrH1 13C	Date	22 Jul 2014 09:09:58
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\jul21ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	2048	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.155
				Pulse Sequence	zgpg30

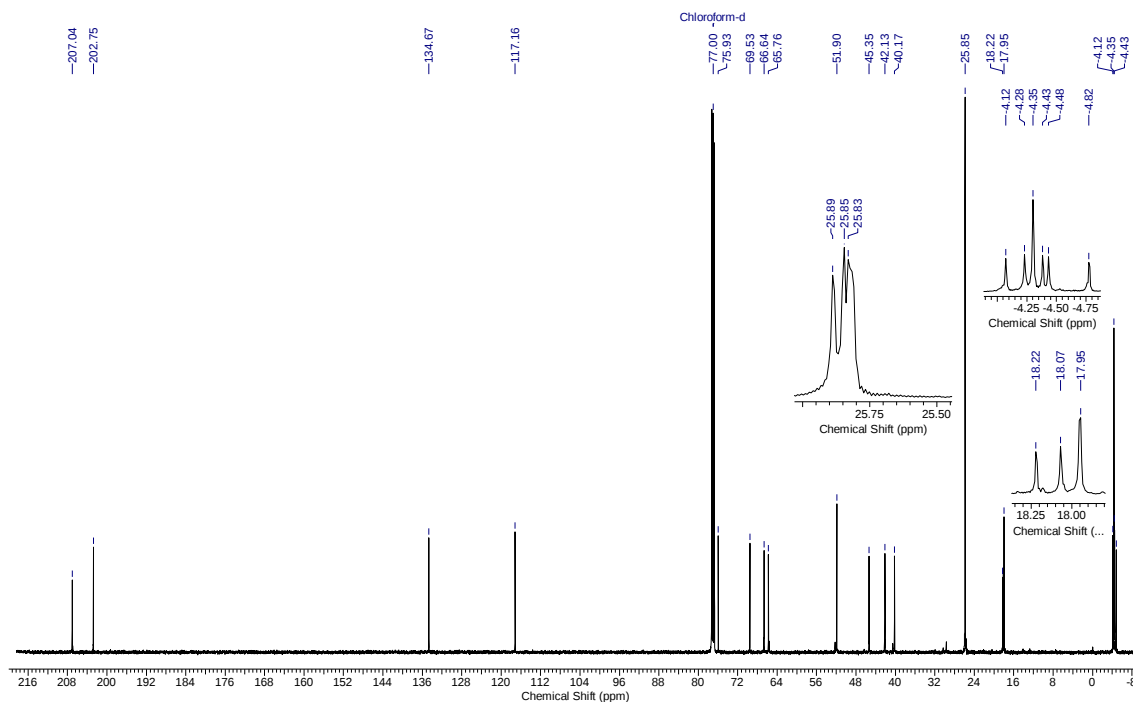


Figure S155: ¹³C NMR spectrum of compound **11** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-327 - CDCl ₃ - Av 500MHz - jul21ejrH1 DEPT135	Date	22 Jul 2014 09:10:16
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\jul21ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	512	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.151
				Pulse Sequence	dept135

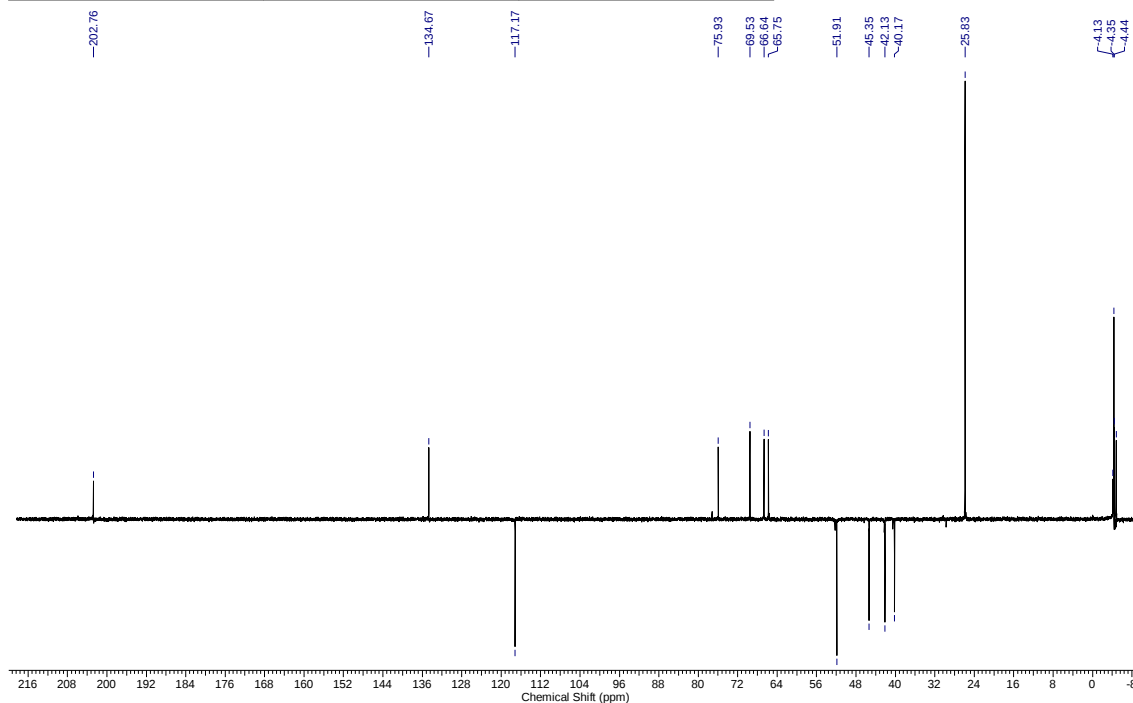
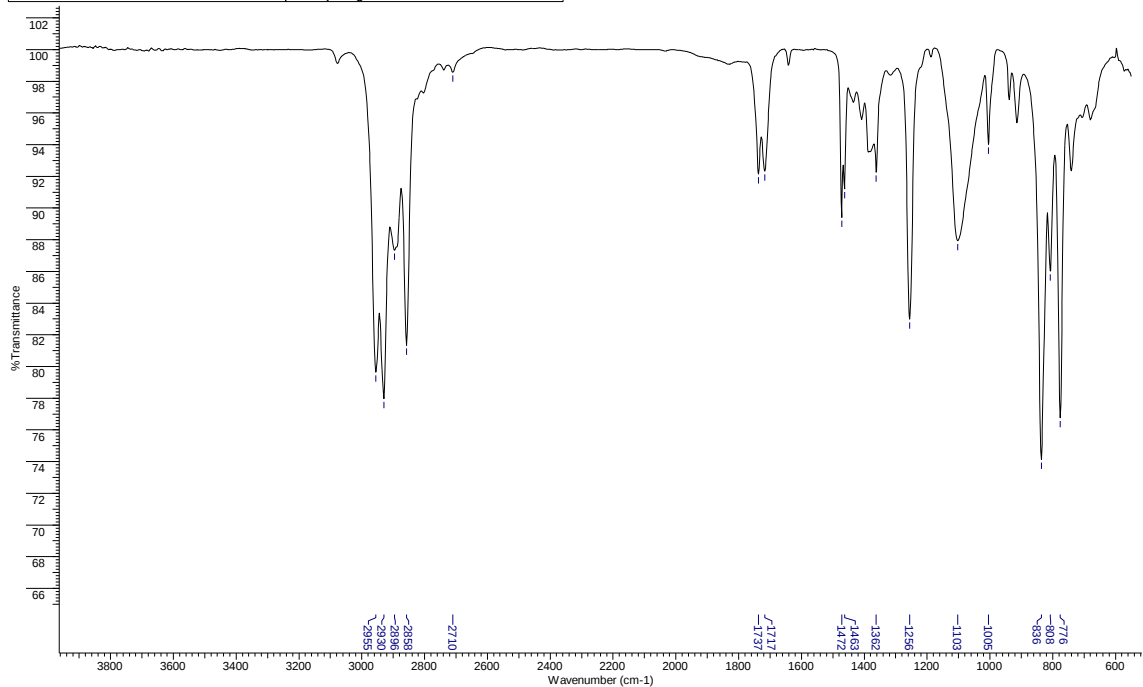


Figure S156: ¹³C NMR (dept 135) spectrum of compound **11** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 003 por LQOS data terça-feira, setembro 30 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVEJR327 1.SP	Date Stamp	tue sep 30 13:18:36 2014 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	tue sep 30 13:19:29 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		



B005 #30 RT: 0.45 AV: 1 NL: 7.89E5
T: FTMS + p ESI Full ms [150.00-1500.00]

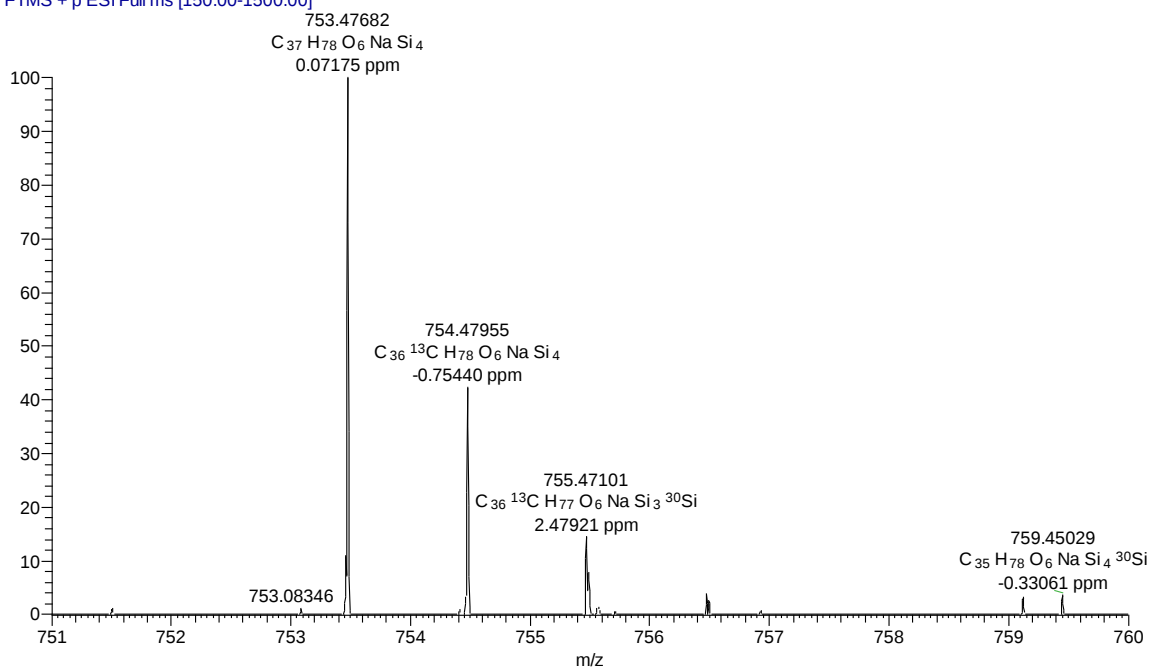


Figure S157: IR and HRMS (ESI FT-ICR-MS) spectra of compound 11.

Copies of ^1H and ^{13}C NMR, IR, and HRMS spectra for fragment C9–C35:

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR 237P - CDCl ₃ - Avance 500 MHz - fev10ejrH1 - ^1H	Date	11 Feb 2014 08:31:28
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\fev10ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	^1H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.154
				Pulse Sequence	zg30

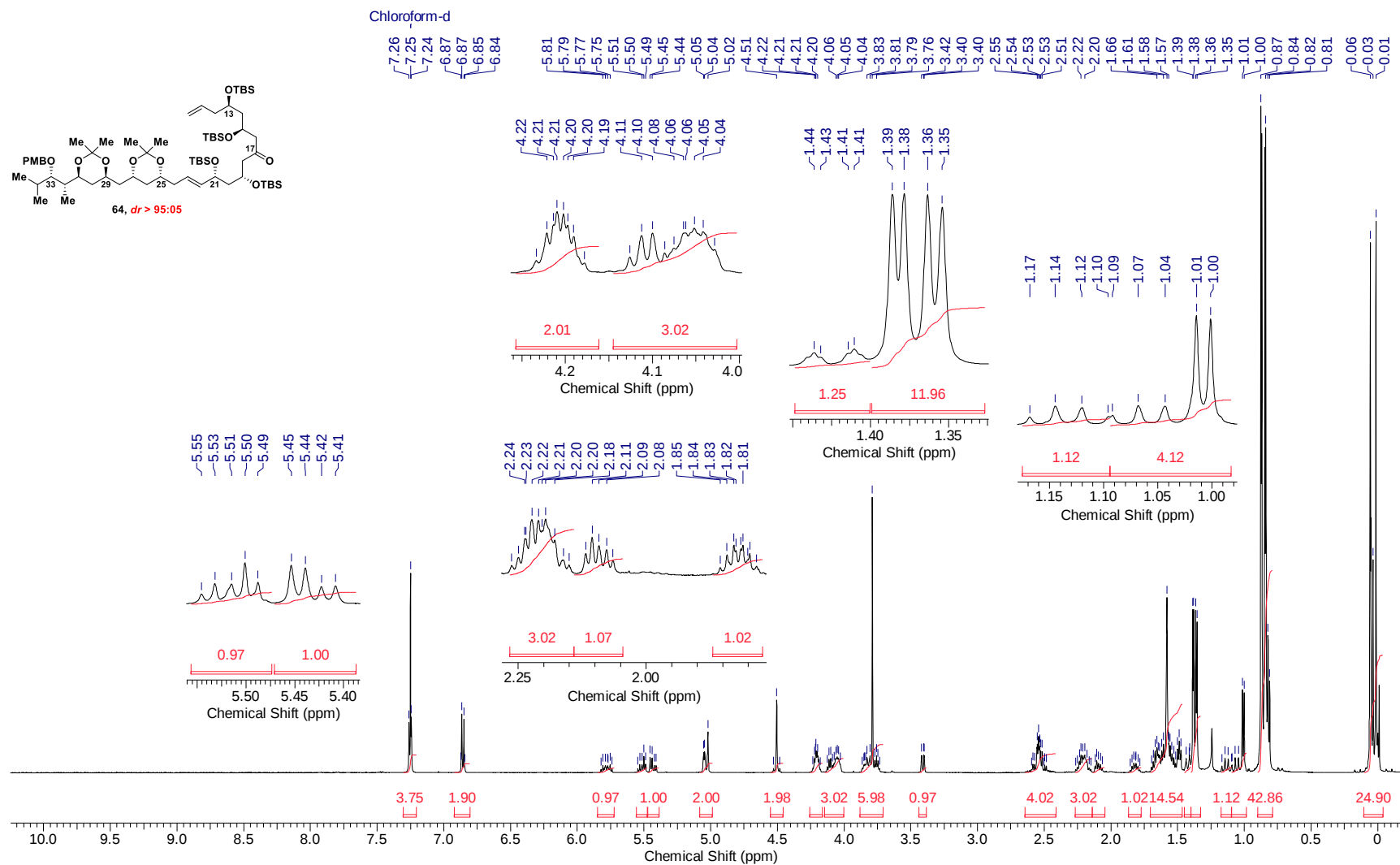


Figure S158: ^1H NMR spectrum of compound **64** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 237P - CDCl ₃ - Avance 500 MHz - fev10ejrH1 - 13C	Date	11 Feb 2014 08:31:50
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\fev10ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	5120	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.145
				Pulse Sequence	zgpg30

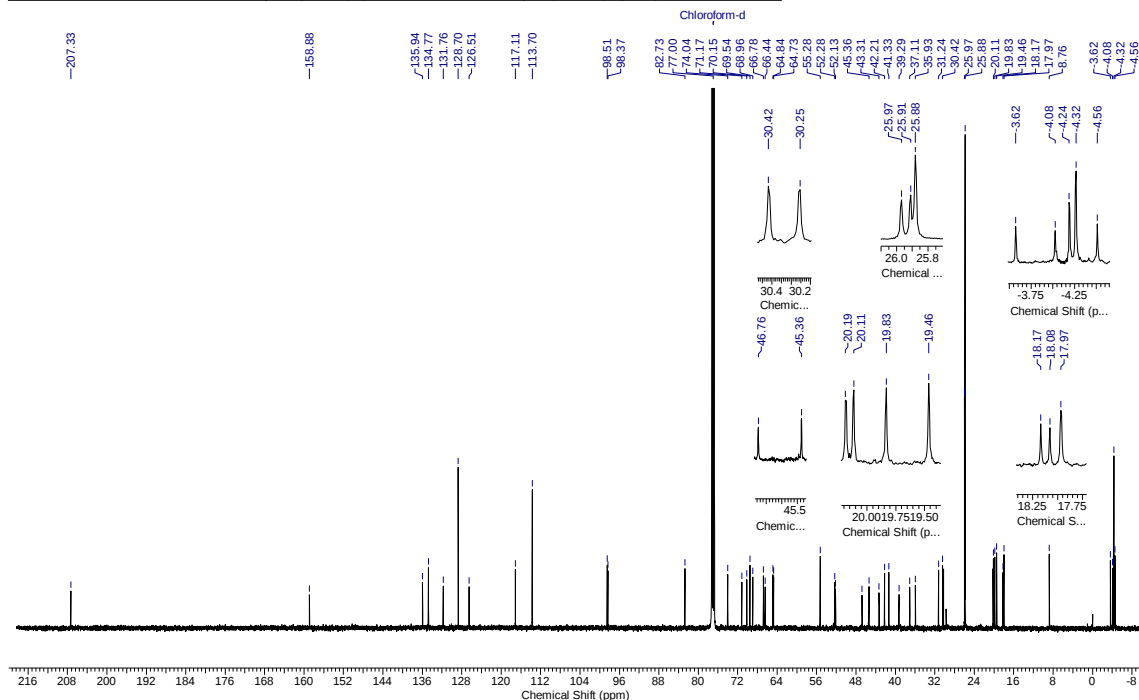


Figure S159: ¹³C NMR spectrum of compound **64** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 237P - CDCl ₃ - Avance 500 MHz - fev10ejrH1 - DEPT 135	Date	11 Feb 2014 08:32:02
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\fev10ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	2048	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.148
				Pulse Sequence	dept135

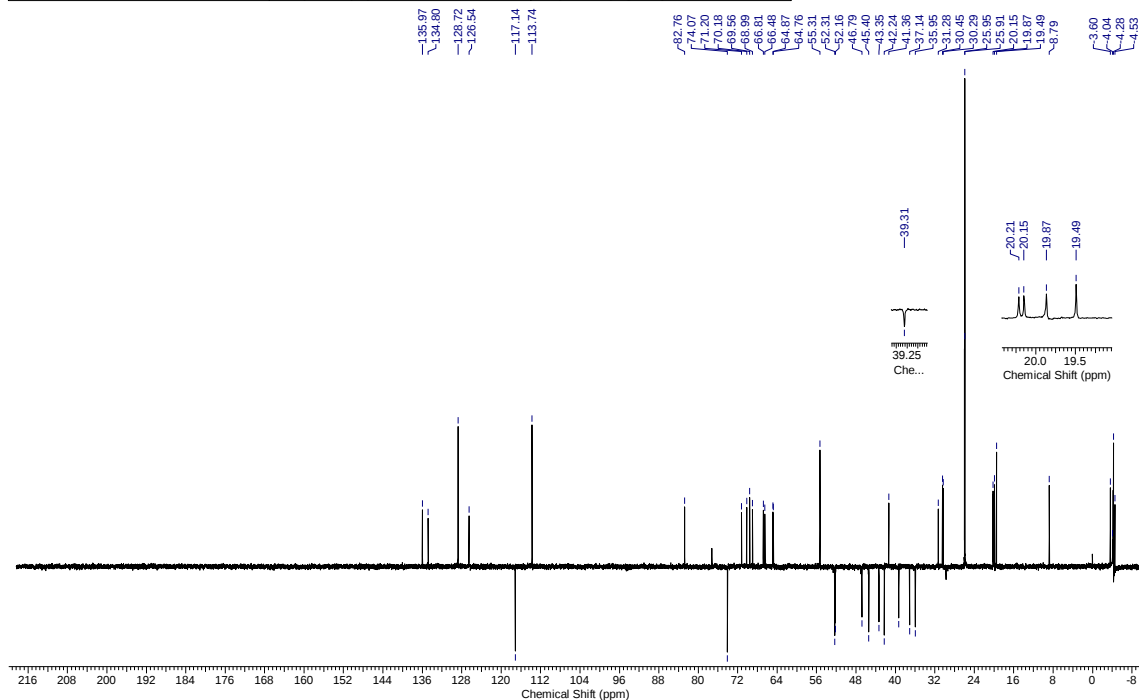
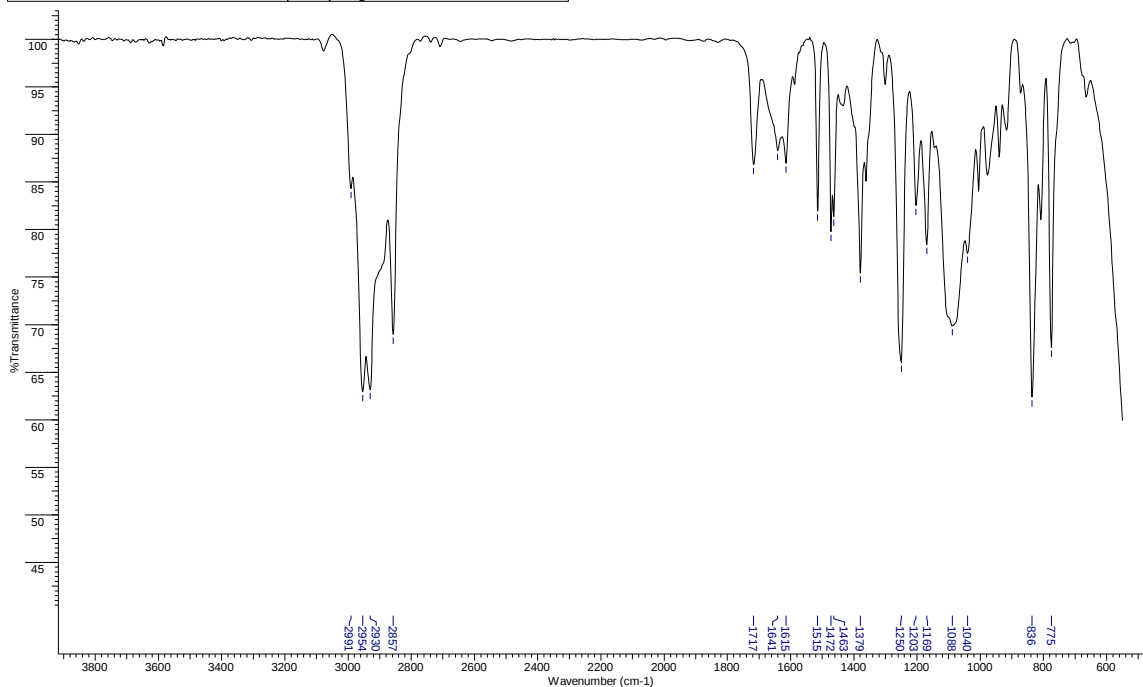


Figure S160: ¹³C NMR (dept 135) spectrum of compound **64** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 000 por LQOS data segunda-feira, fevereiro 24 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOCTORADO\IVEJR237P_1.SP	Date Stamp	mon feb 24 15:23:28 2014 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	mon feb 24 15:25:59 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		



B006 #15 RT: 0.23 AV: 1 NL: 3.36E7
T: FTMS + p ESI Full ms [150.00-1500.00]

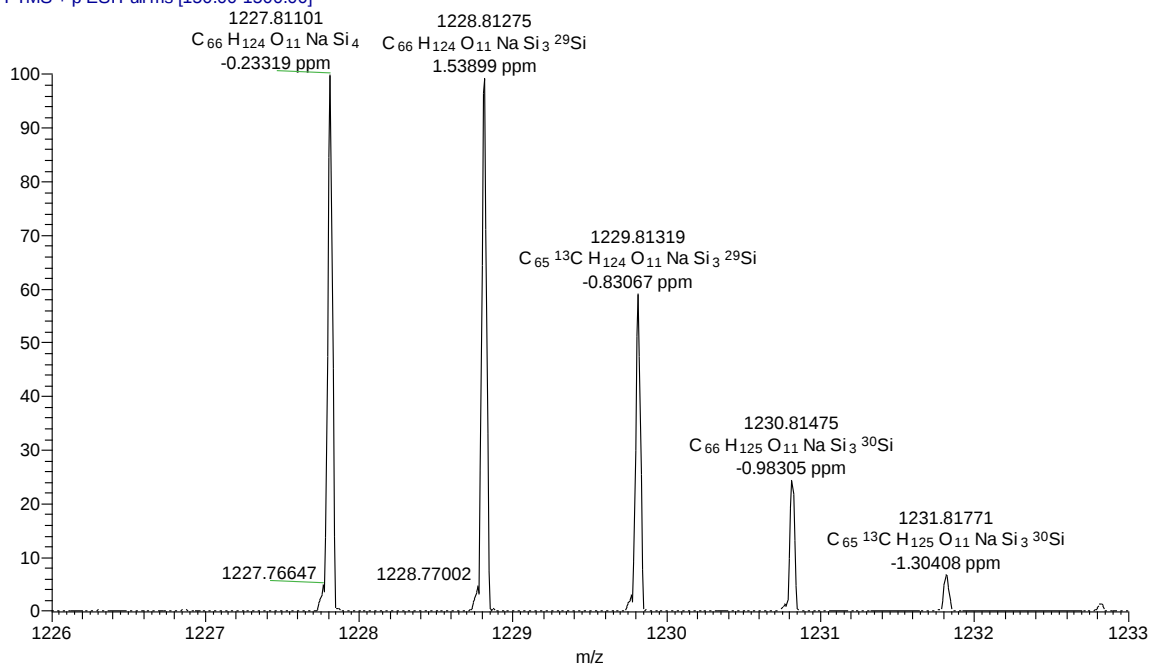


Figure S161: IR and HRMS (ESI FT-ICR-MS) spectra of compound **64**.

Acquisition Time (sec)	1.5903	Date	14 Mar 2014 16:56:56	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\mar14ejrH1_001001r	Number of Transients	16	Original Points Count	16384
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30	Sweep Width (Hz)	10302.20		
Temperature (degree C)	25.152				

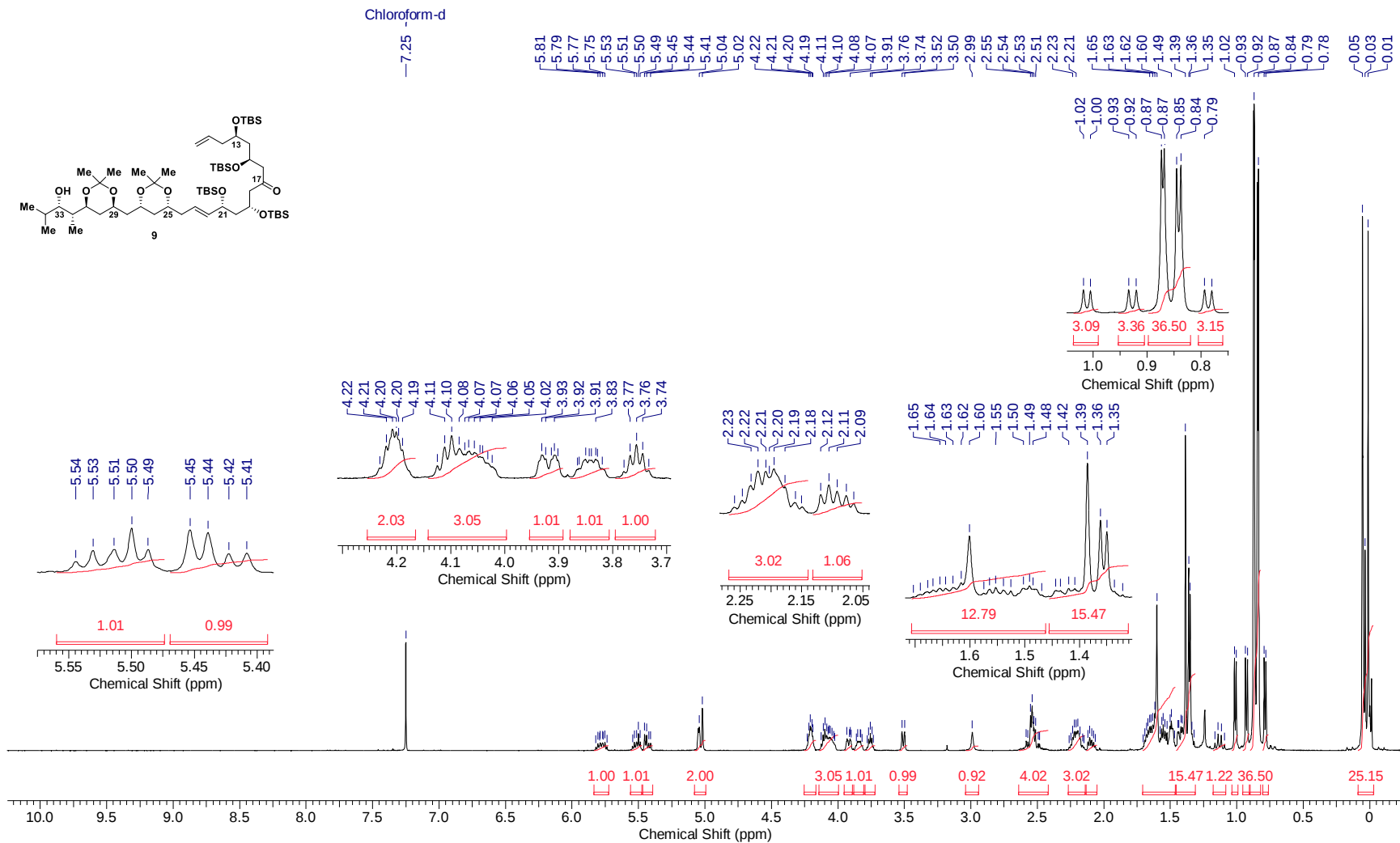


Figure S162: ¹H NMR spectrum of compound **9** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.4981	Date	14 Mar 2014 17:43:04	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\mar14\ejrH1_002001r	Number of Transients	1024	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	32894.74
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.205				

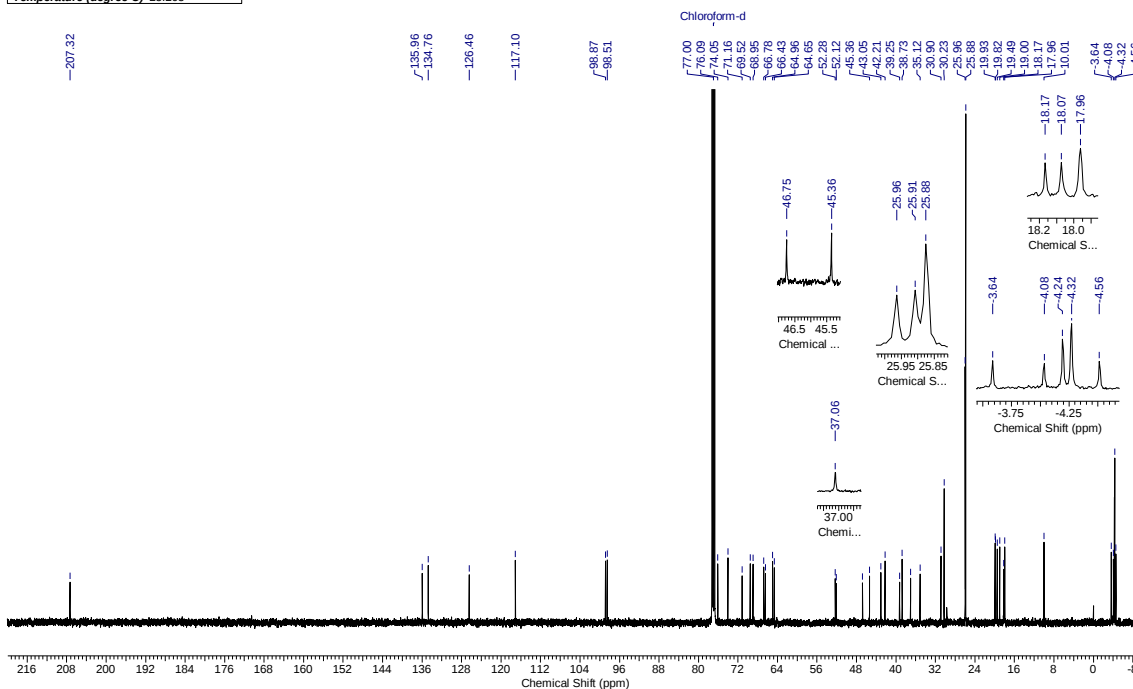


Figure S163: ¹³C NMR spectrum of compound **9** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Date	14 Mar 2014 18:06:54	Frequency (MHz)	125.69
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\mar14\ejrH1_003001r	Number of Transients	512	Points Count	32768
Nucleus	¹³ C	Original Points Count	16384	Sweep Width (Hz)	29761.90
Pulse Sequence	dept135	Solvent	CHLOROFORM-D		
Temperature (degree C)	25.150				

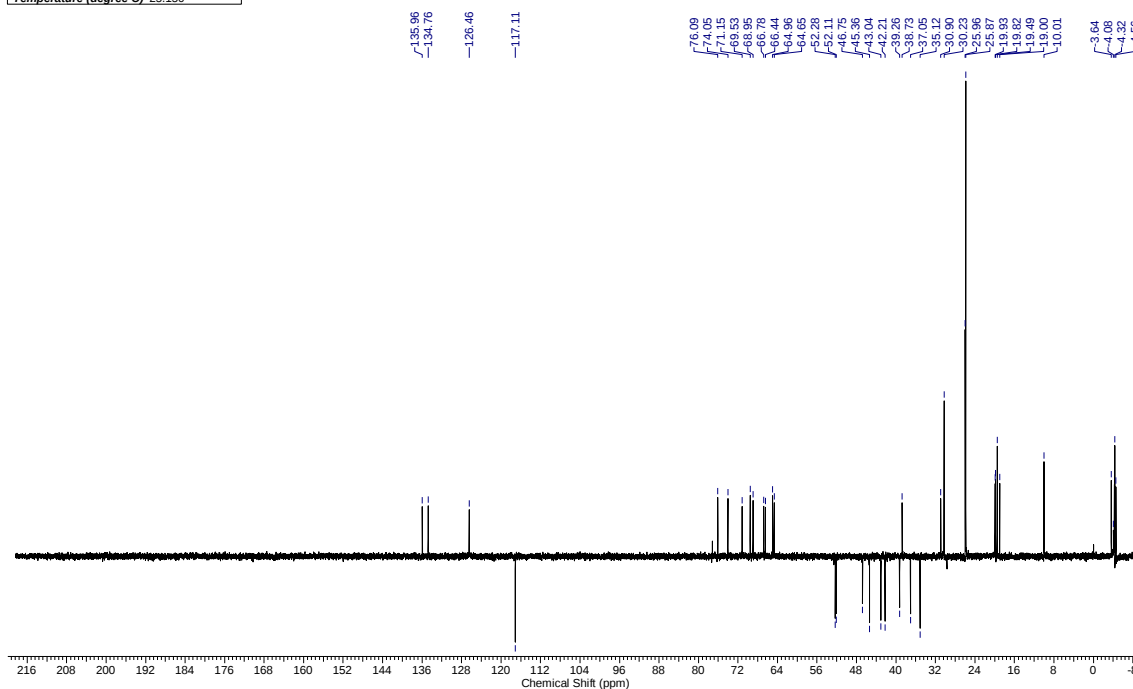
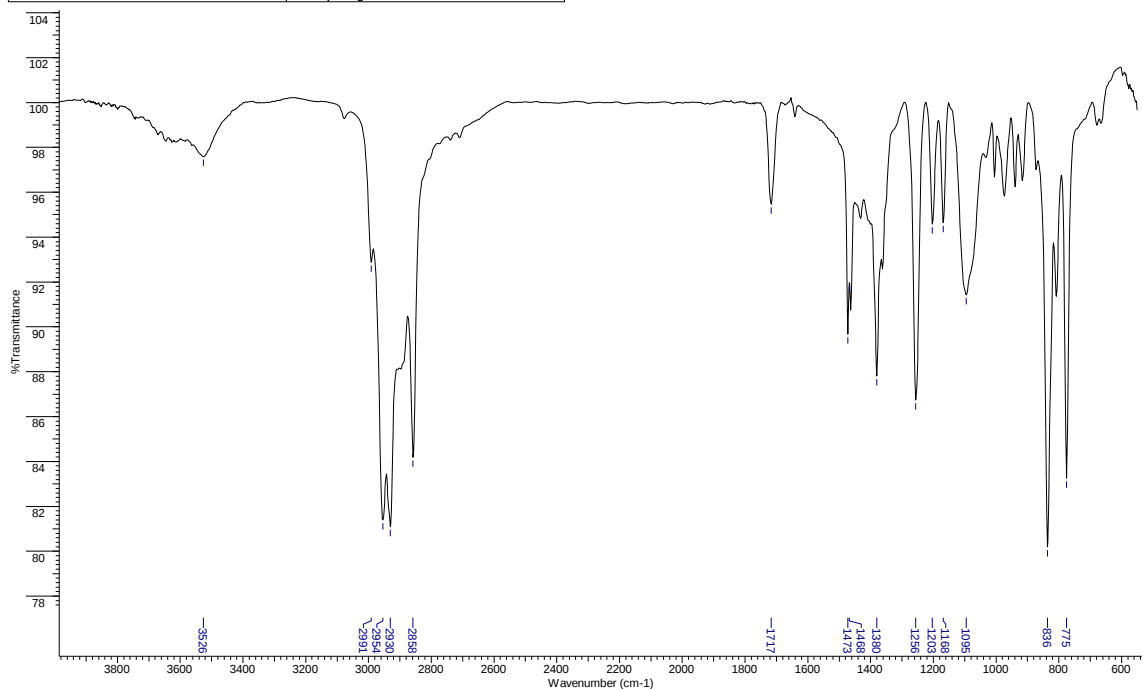


Figure S164: ¹³C NMR (dept 135) spectrum of compound **9** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 005 por LQOS data terça-feira, setembro 30 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVE\JR253P_1.SP	Date Stamp	tue sep 30 13:34:04 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	tue sep 30 13:34:53 2014 Hora oficial do Brasil (GMT-3:00)	X Axis	Wavenumber (cm-1)	Instrument	Spectrum Two
Spectral Region	IR	Y Axis	%Transmittance	Spectrum Range	550.0000 - 4000.0000
Points Count	3451	Data Spacing	1.0000		



B007 #22 RT: 0.35 AV: 1 NL: 8.61E6
T: FTMS + p ESI Full ms [150.00-1500.00]

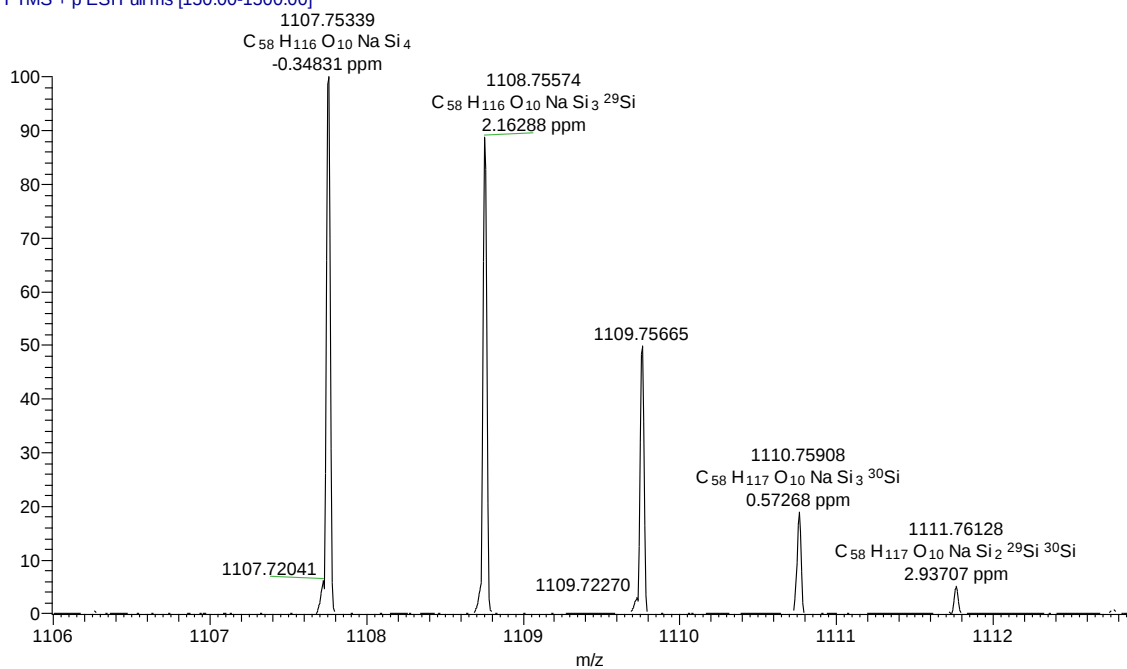


Figure S165: IR and HRMS (ESI FT-ICR-MS) spectra of compound **9**.

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-270P - CDCl ₃ - Av 500 MHz - abr14ejrH1 13C	Date	15 Apr 2014 09:47:36
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\abr14ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	10240	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.150
				Pulse Sequence	zgpg30

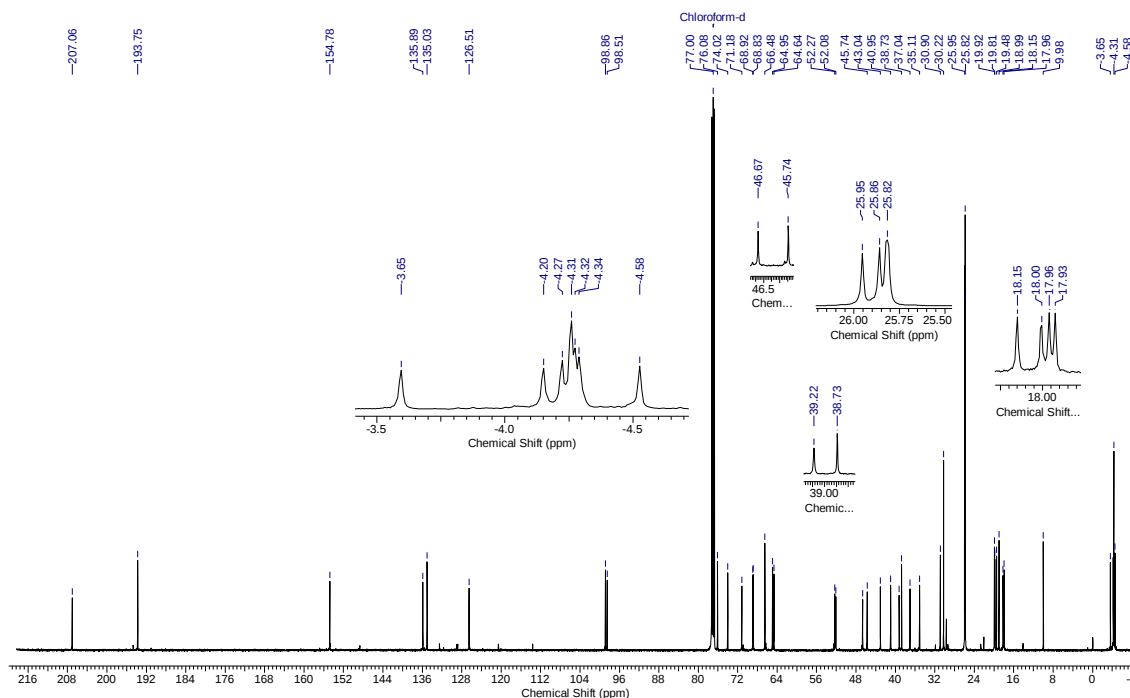


Figure S167: ¹³C NMR spectrum of compound **7** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-270P - CDCl ₃ - Av 500 MHz - abr14ejrH1 DEPT135	Date	15 Apr 2014 09:47:52
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\abr14ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	4096	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.150
				Pulse Sequence	dept135

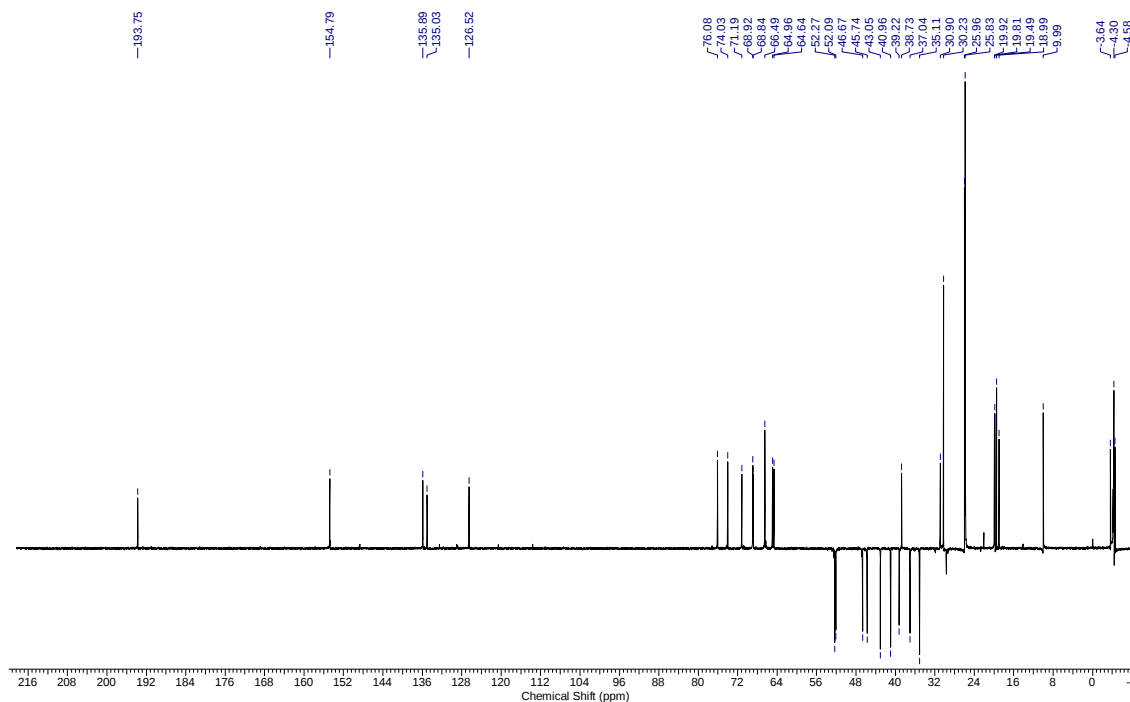
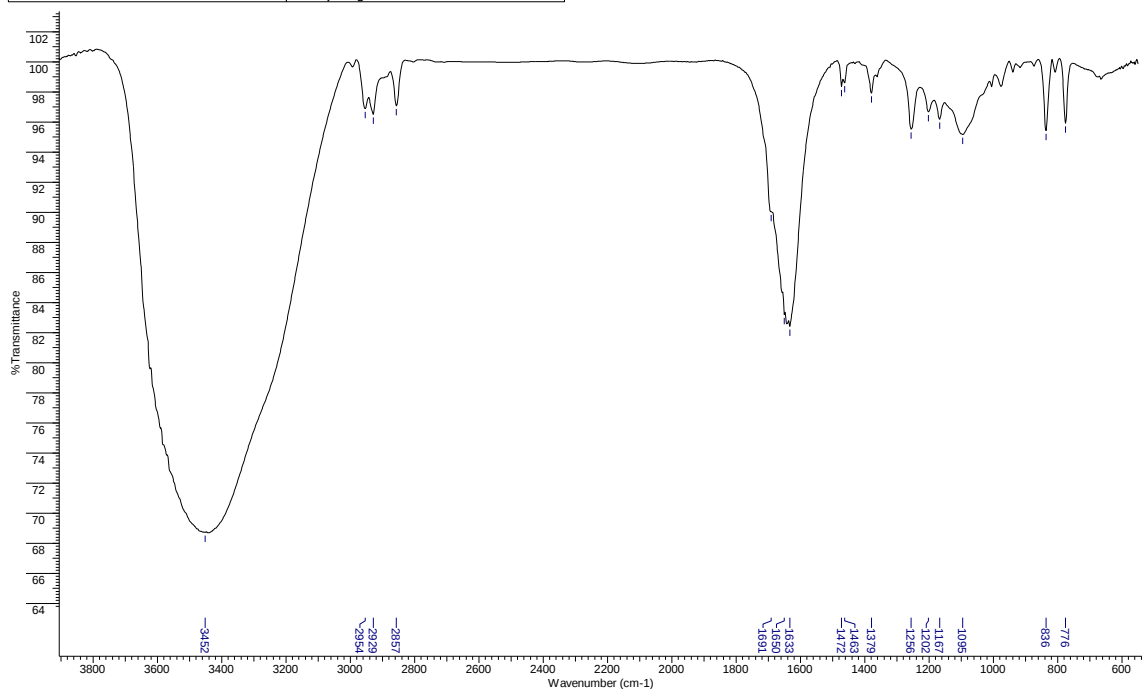


Figure S168: ¹³C NMR (dept 135) spectrum of compound **7** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 004 por LQOS data terça-feira, setembro 30 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\OUTORADO\IVEJR270P_1.SP	Date Stamp	tue sep 30 13:26:50 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	tue sep 30 13:36:20 2014 Hora oficial do Brasil (GMT-3:00)	X Axis	Wavenumber (cm-1)	Instrument	Spectrum Two
Spectral Region	IR	Y Axis	% Transmittance	Spectrum Range	550.0000 - 4000.0000
Points Count	3451	Data Spacing	1.0000		



B008 #21 RT: 0.32 AV: 1 NL: 4.29E6
T: FTMS + p ESI Full ms [150.00-1500.00]

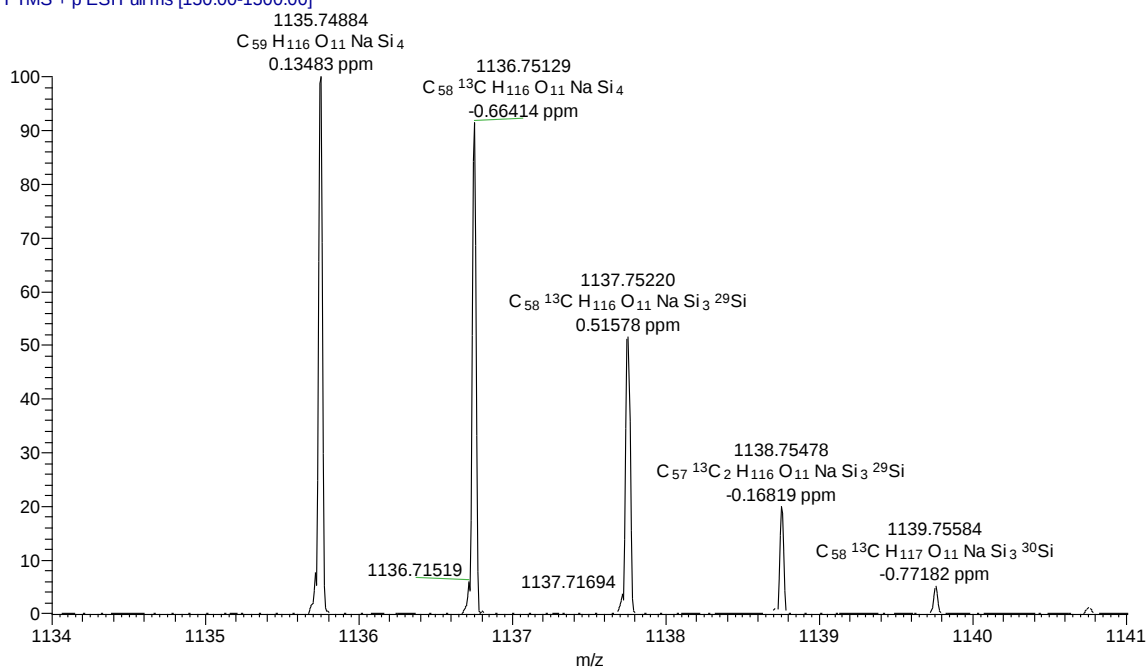


Figure S169: IR and HRMS (ESI FT-ICR-MS) spectra of compound **7**.

Copies of ^1H and ^{13}C NMR, IR, and HRMS spectra for fragments C1–C8 and C1–C35:

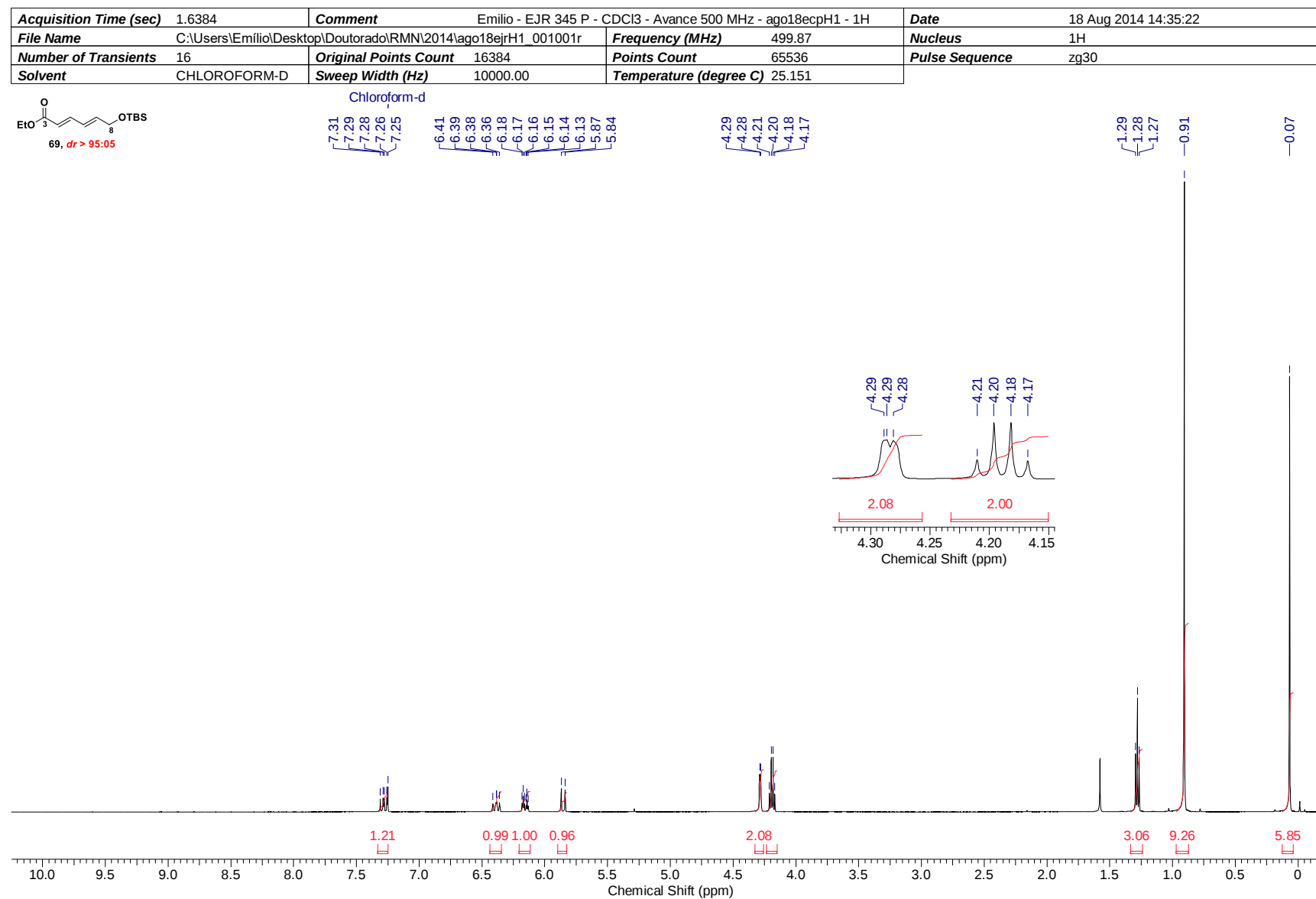


Figure S170: ^1H NMR spectrum of compound **69** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 345 P - CDCl ₃ - Avance 500 MHz - ago18ecpH1 - 13C	Date	18 Aug 2014 14:35:42
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\ago18ecpH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	2024	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.150
				Pulse Sequence	zgpg30

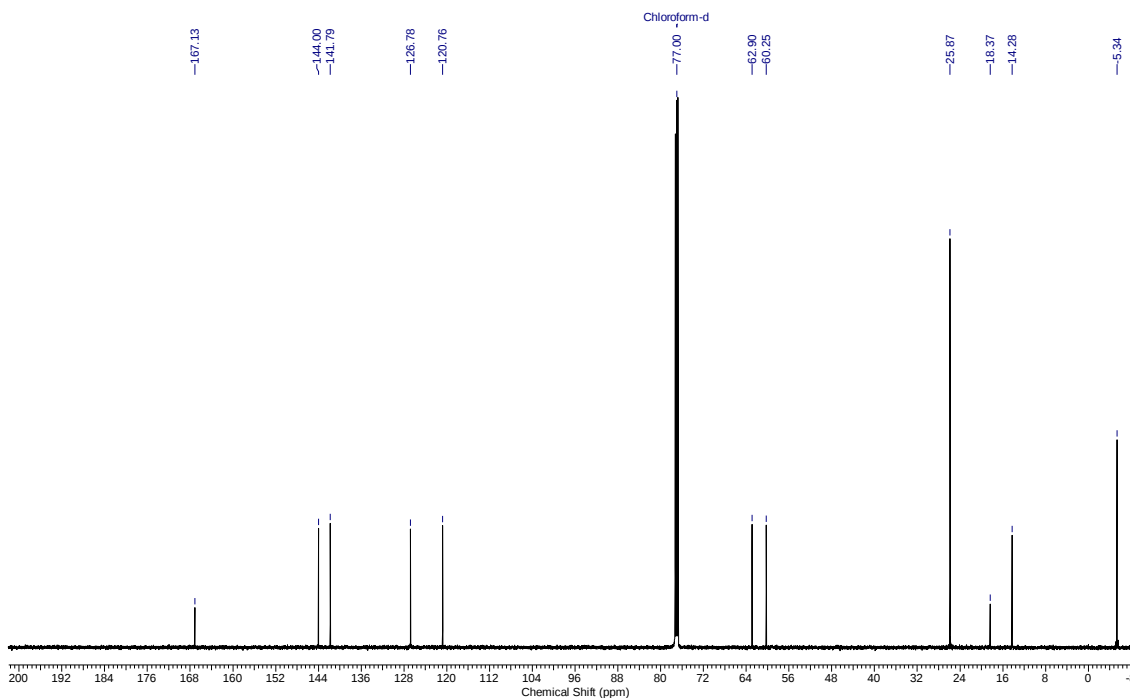


Figure S171: ¹³C NMR spectrum of compound **69** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 345 P - CDCl ₃ - Avance 500 MHz - ago18ecpH1 - DEPT 135	Frequency (MHz)	125.69
Date	18 Aug 2014 14:44:50	File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2014\ago18ecpH1_003001r	Points Count	32768
Nucleus	13C	Number of Transients	256	Original Points Count	16384
Pulse Sequence	dept135	Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90
				Temperature (degree C)	25.132

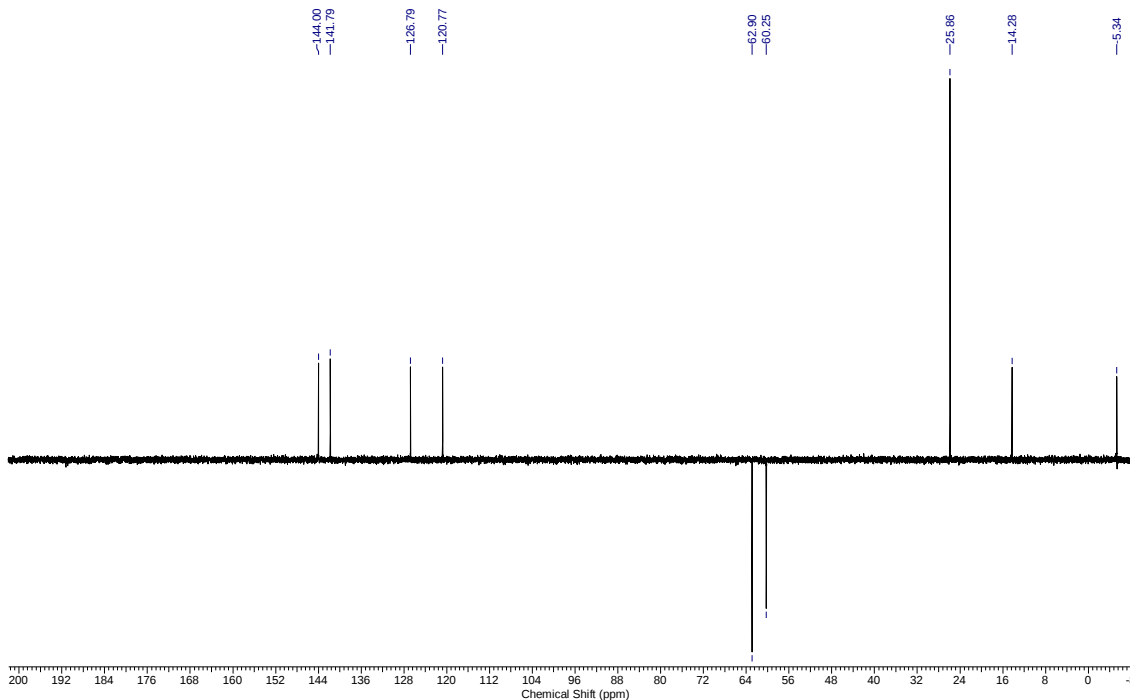


Figure S172: ¹³C NMR (dept 135) spectrum of compound **69** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 008 por LQOS data terça-feira, setembro 30 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVEJR345P_1.SP	Date Stamp	tue sep 30 13:55:37 2014 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	tue sep 30 13:56:40 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		

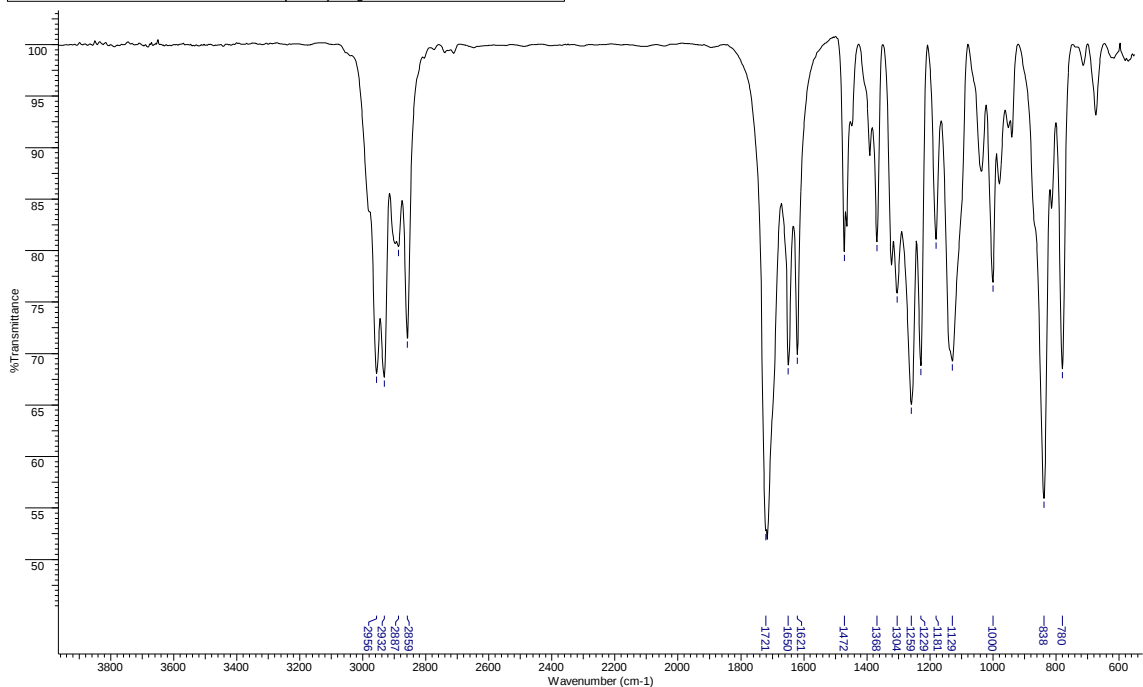


Figure S173: IR spectrum of compound **69**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR-347 - CDCl ₃ - Av 500MHz - ago19ejrH1	Date	19 Aug 2014 15:32:28
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\ago19ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.159

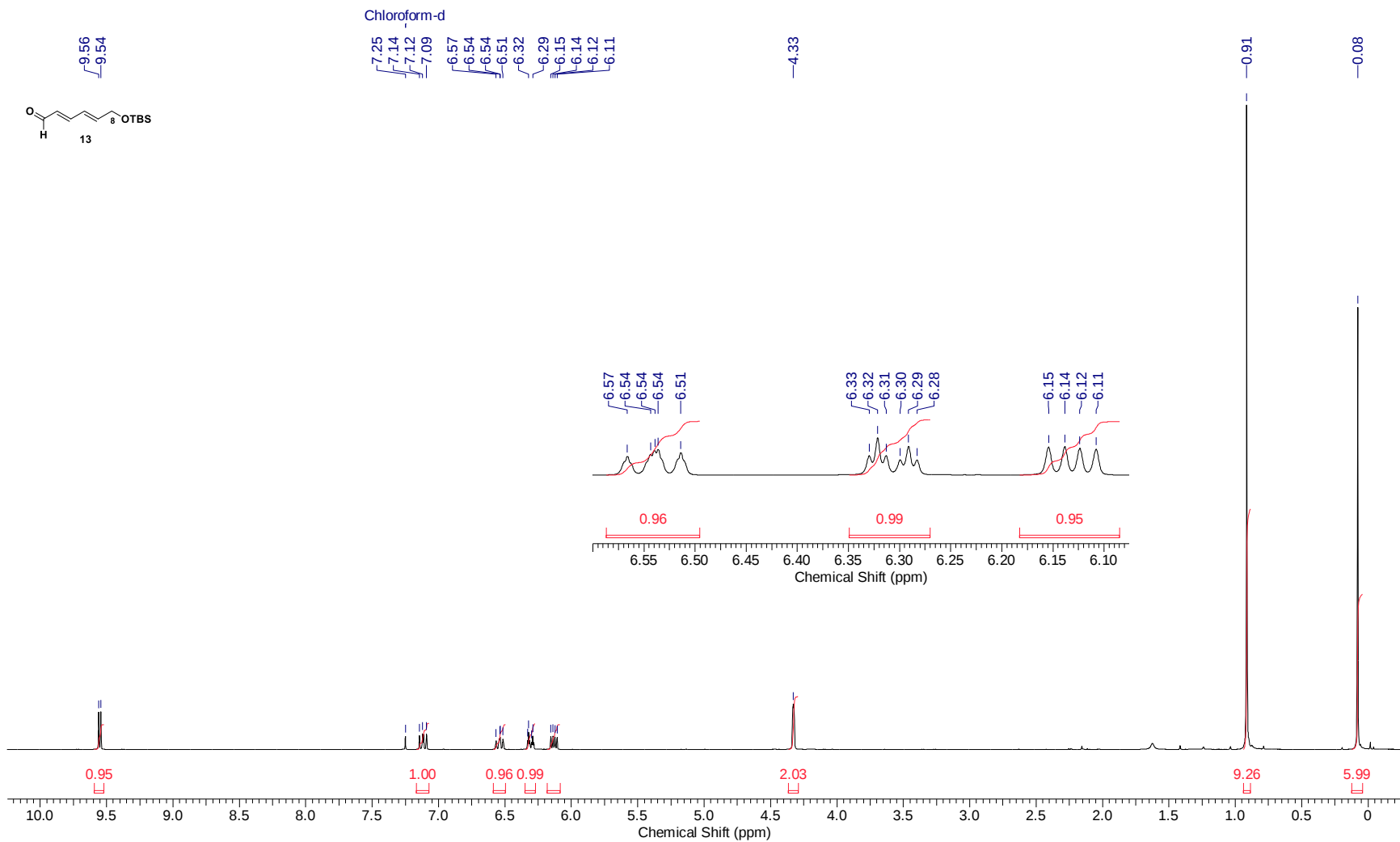


Figure S174: ¹H NMR spectrum of compound **13** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-347 - CDCl ₃ - Av 500MHz - ago19ejrH1 13C	Date	19 Aug 2014 15:32:22
File Name	C:\Users\Emilio\Desktop\Boutoradol\RMN\2014\ago19ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	640	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.185
				Pulse Sequence	zgpg30

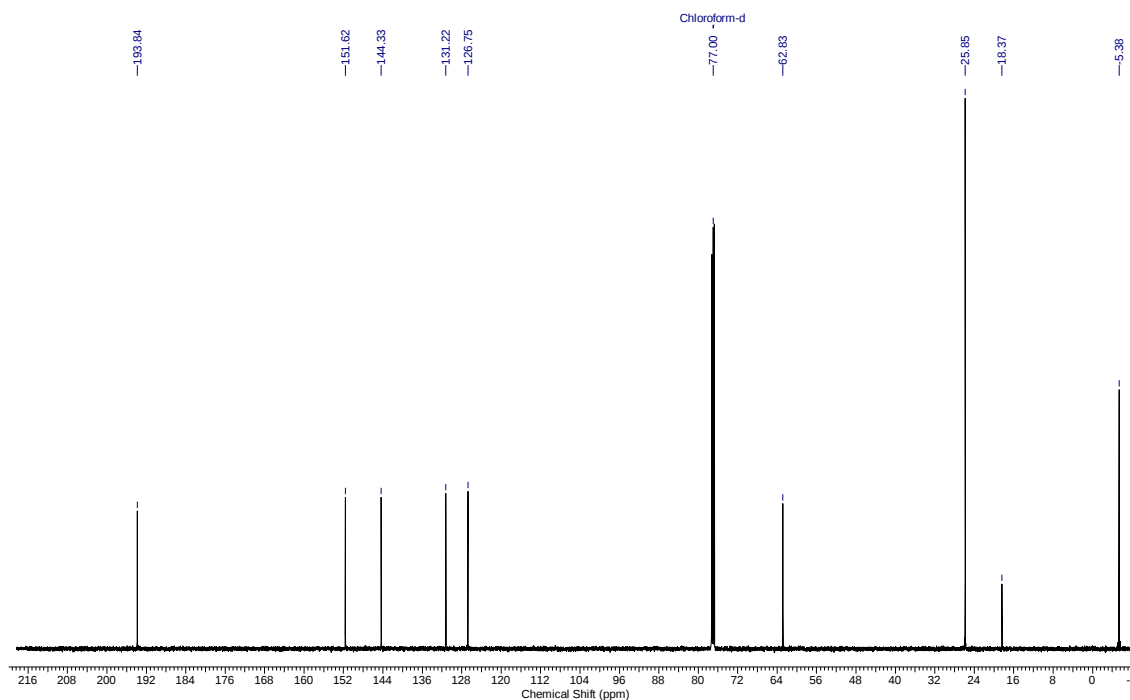


Figure S175: ¹³C NMR spectrum of compound **13** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-347 - CDCl ₃ - Av 500MHz - ago19ejrH1 DEP135	Date	19 Aug 2014 17:58:48
File Name	C:\Users\Emilio\Desktop\Boutoradol\RMN\2014\ago19ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	128	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.152
				Pulse Sequence	dept135

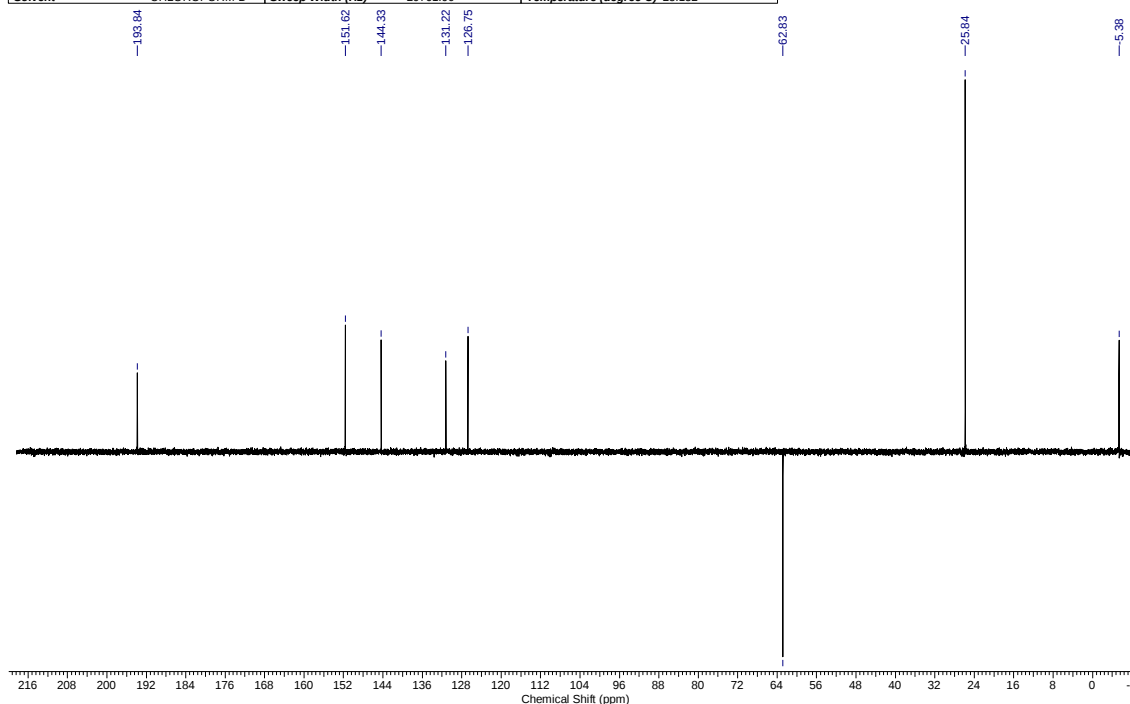


Figure S176: ¹³C NMR (dept 135) spectrum of compound **13** (125 MHz; CDCl₃).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 010 por LQOS data terça-feira, setembro 30 2014	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOUTORADO\IVE\IR347P_1.SP	Date Stamp	tue sep 30 14:10:58 2014 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	tue sep 30 14:11:45 2014 Hora oficial do Brasil (GMT-3:00)	X Axis	Wavenumber (cm-1)	Instrument	Spectrum Two
Spectral Region	IR	Y Axis	%Transmittance	Spectrum Range	550.0000 - 4000.0000
Points Count	3451	Data Spacing	1.0000		

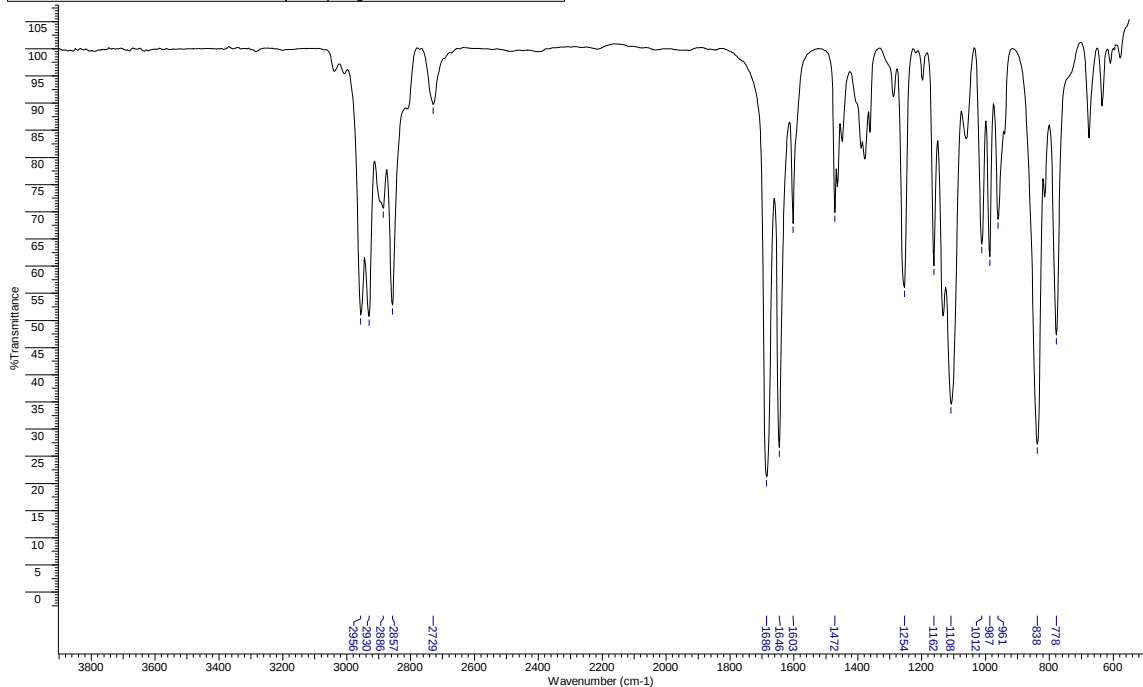


Figure S177: IR spectrum of compound 13.

Acquisition Time (sec)	0.5505	Comment	Emilio - ERJ-424P - CDCl ₃ - Avance 500 MHz - fev13ejrH1 - 13C		Date	13 Feb 2015 11:24:16	
File Name	C:\Users\Emilio\Desktop\Boutoradol\RMN\2015\fev13ejrH1_002001r		Frequency (MHz)	125.69	Nucleus	13C	
Number of Transients	380	Original Points Count	16384	Points Count	32768	Pulse Sequence	zgpg30
Solvent	CHLOROFORM-D		Sweep Width (Hz)	29761.90	Temperature (degree C)	25.150	

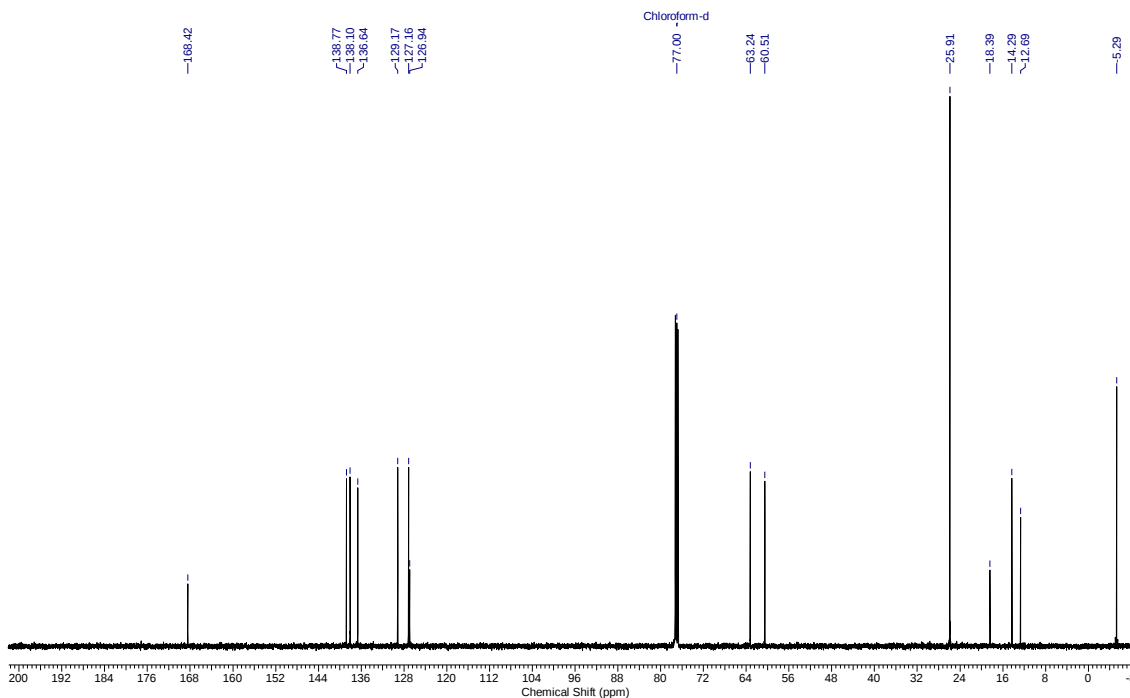


Figure S179: ¹³C NMR spectrum of compound **71a** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - ERJ-424P - CDCl3 - Avance 500 MHz - fev13ejrH1 - 13C		Date	13 Feb 2015 12:59:48	
File Name	C:\Users\Emilio\Desktop\Boutoradol\RMN\2015\fev13ejrH1_003001r		Frequency (MHz)	125.69	Nucleus	13C	
Number of Transients	479	Original Points Count	16384	Points Count	32768	Pulse Sequence	dept135
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.153		

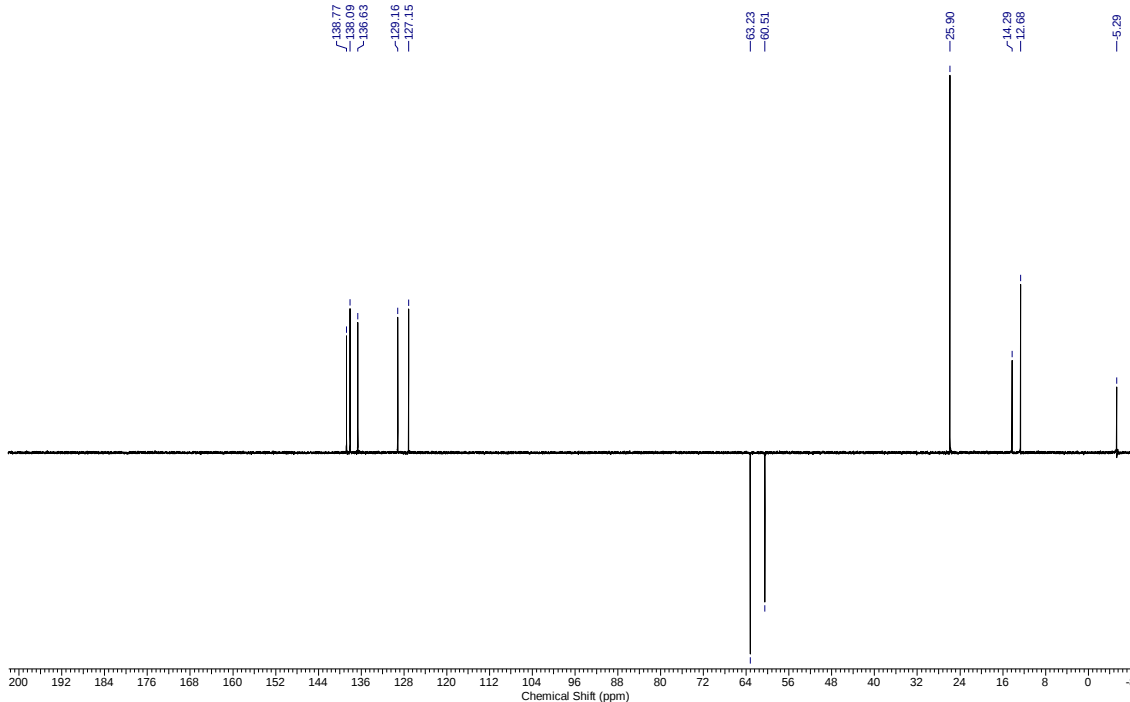


Figure S180: ¹³C NMR (dept 135) spectrum of compound **71a** (125 MHz; CDCl₃).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 001 por LQOS data sábado, fevereiro 21 2015
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\IIVIEJR424P_1.SP
Date Stamp	sat feb 21 18:25:39 2015 Horário brasileiro de verão (GMT-2:00)	Date	sat feb 21 18:26:45 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000

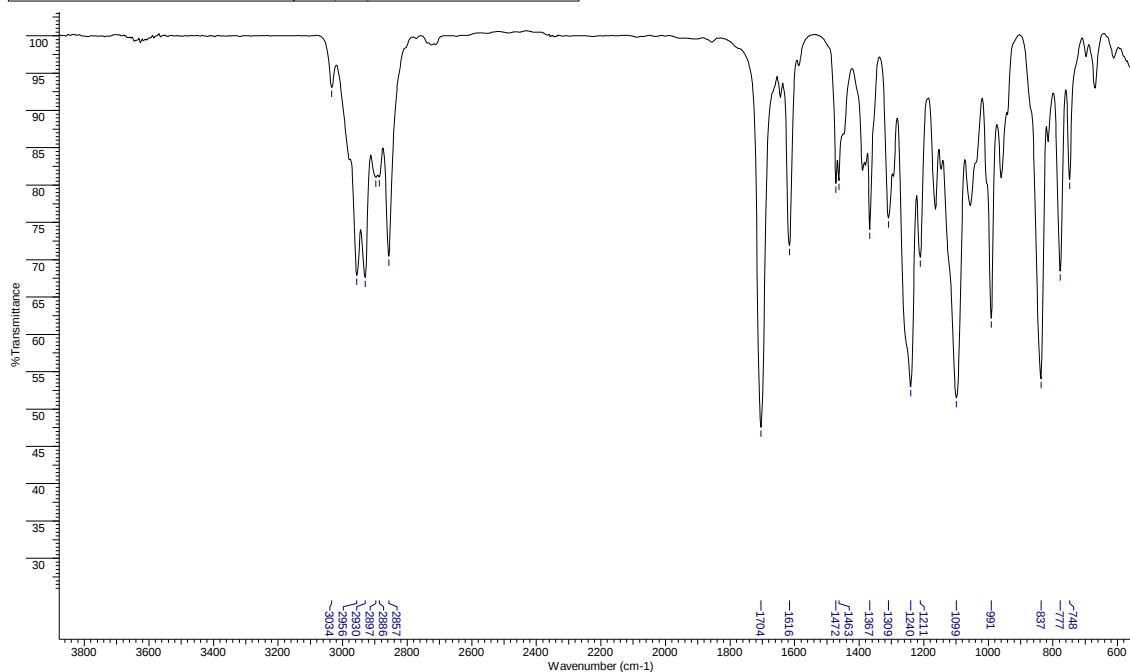


Figure S181: IR spectrum of compound 71a.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR-425P - CDCl ₃ - Av 500MHz - fev20ejrH1	Date	20 Feb 2015 13:48:58
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2015\fev20ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	25.143

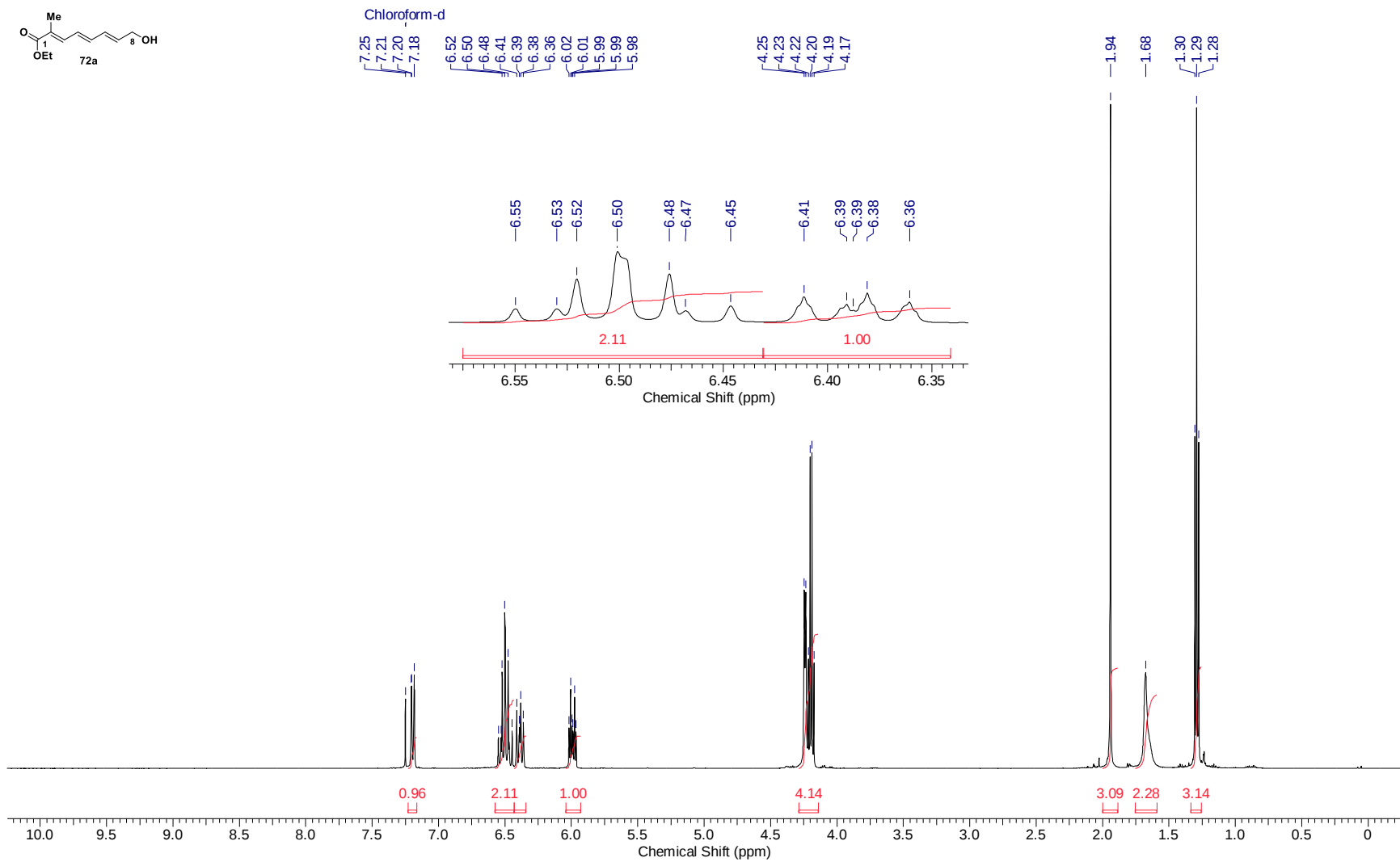


Figure S182: ¹H NMR spectrum of compound **72a** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-425P - CDCl ₃ - Av 500MHz - fev20ejrH1 13C	Date	20 Feb 2015 14:13:38
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\fev20ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	256	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.150
				Pulse Sequence	zgpg30

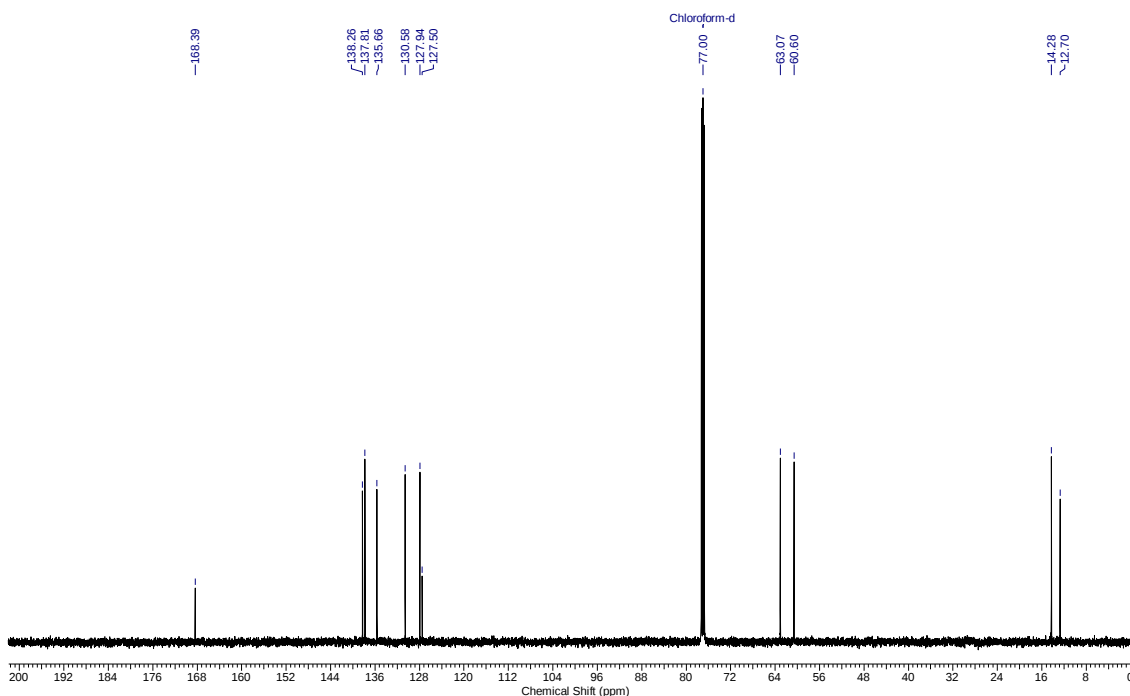


Figure S183: ^{13}C NMR spectrum of compound **72a** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-425P - CDCl ₃ - Av 500MHz - fev20ejrH1 DEPT135	Date	20 Feb 2015 14:13:26
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\fev20ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	256	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.152
				Pulse Sequence	dept135

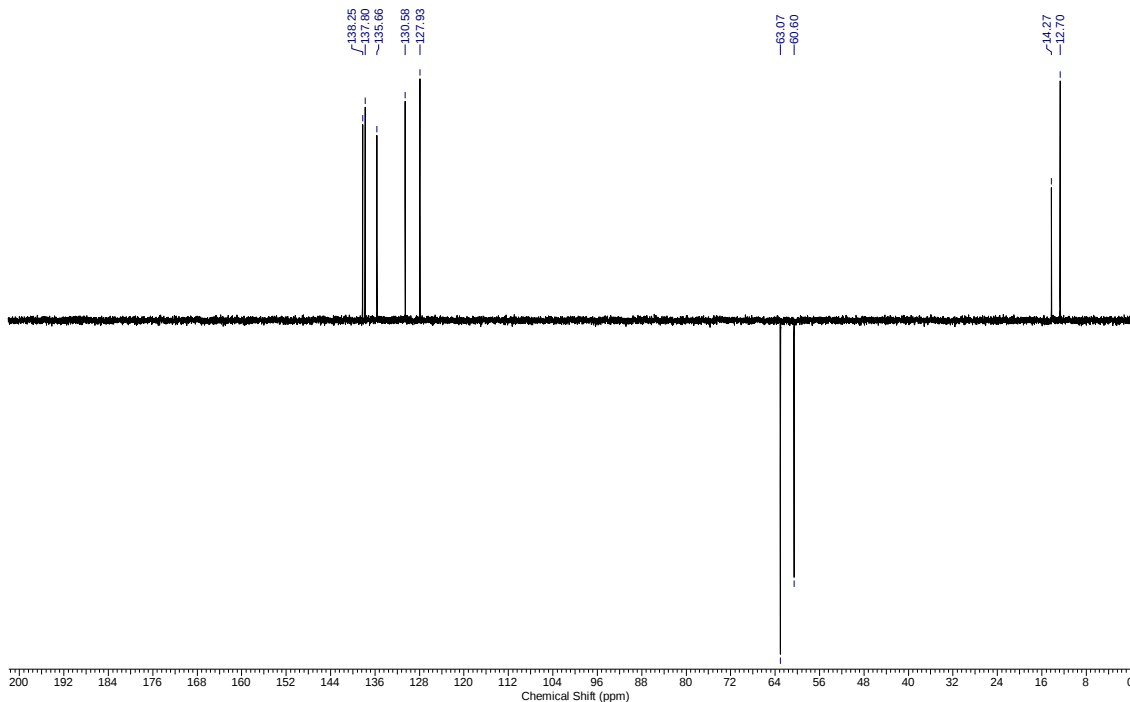


Figure S184: ^{13}C NMR (dept 135) spectrum of compound **72a** (125 MHz; CDCl_3).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 002 por LQOS data sábado, fevereiro 21 2015
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\IIVEJR425_1.SP
Date Stamp	sat feb 21 18:35:07 2015 Horário brasileiro de verão (GMT-2:00)	Date	sat feb 21 18:35:56 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000

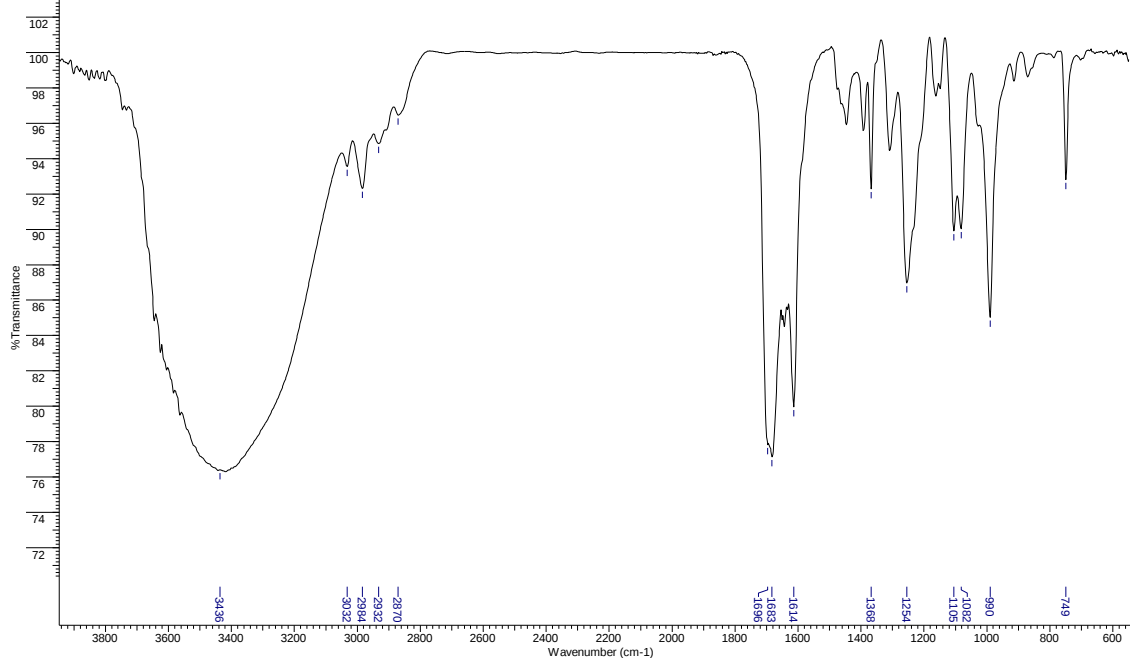


Figure S185: IR spectrum of compound 72a.

Acquisition Time (sec)	0.5505	Comment	Emilio "EJR-427P" cdc13/ Av500MHz mar25ejrH1 - 13C	Date	26 Mar 2015 07:48:02
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\mar25ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	1024	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.175
				Pulse Sequence	zgpg30

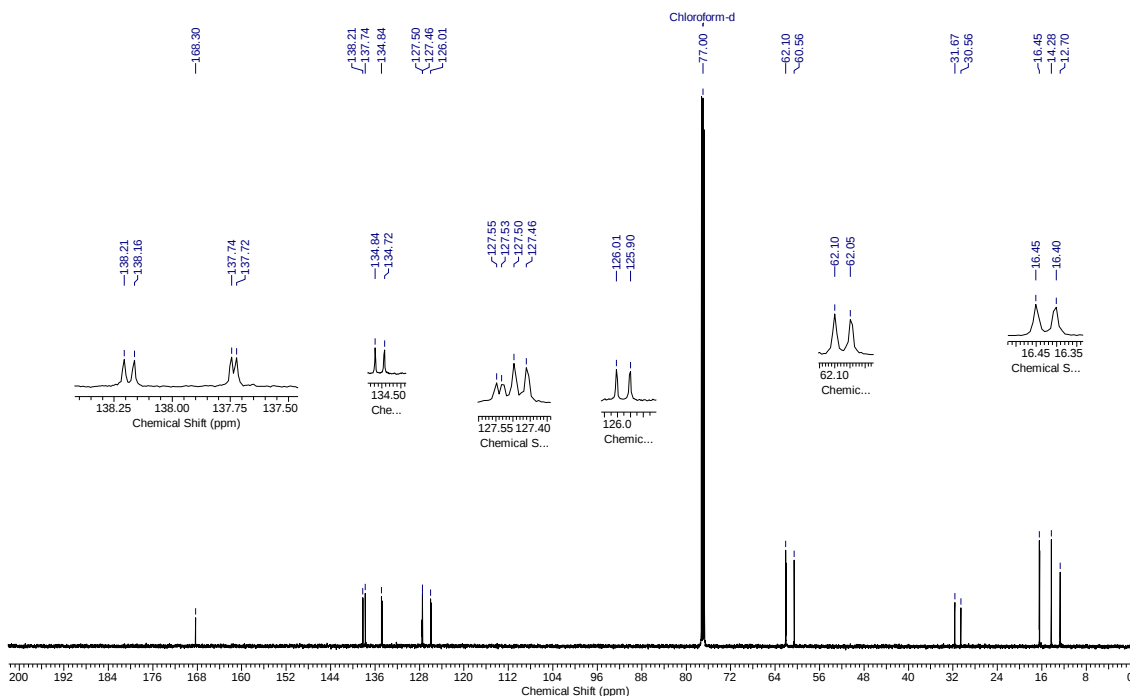


Figure S187: ^{13}C NMR spectrum of compound **6a** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio "EJR-427P" cdc13/ Av500MHz mar25ejrH1 - dept135	Date	26 Mar 2015 07:50:32
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\mar25ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	256	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.150
				Pulse Sequence	dept135

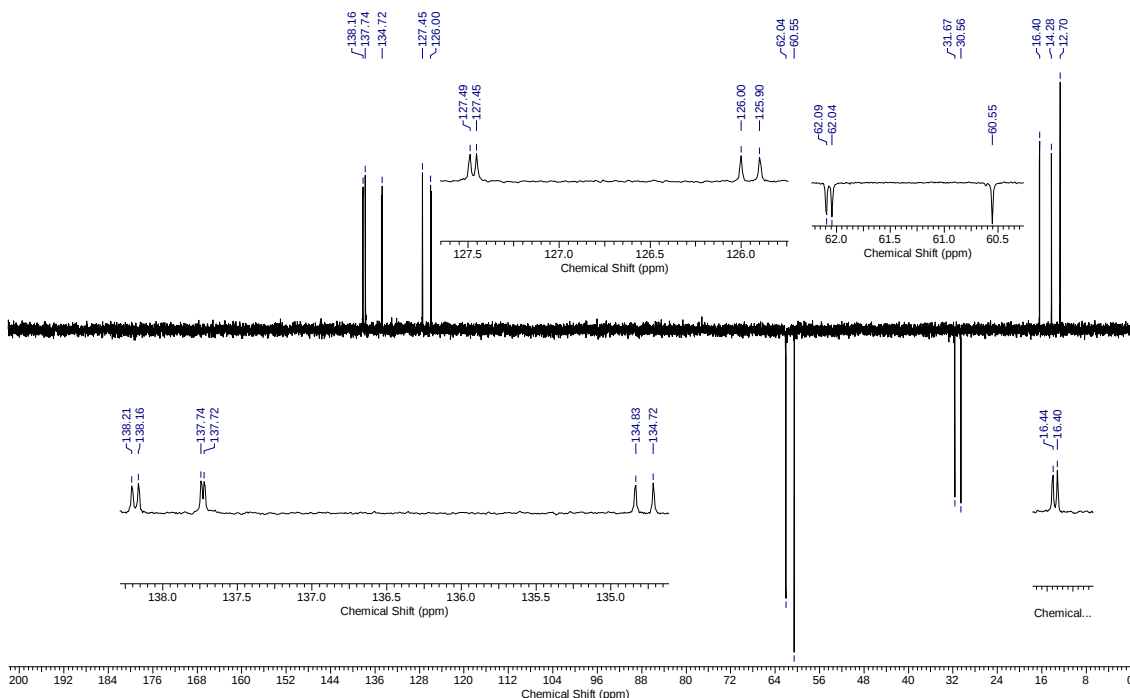


Figure S188: ^{13}C NMR (dept 135) spectrum of compound **6a** (125 MHz; CDCl_3).

Acquisition Time (sec)	1.5903	Date	28 Mar 2014 08:47:14	Frequency (MHz)	499.87
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\mar27\ejrH1_001001r	Number of Transients	16	Original Points Count	16384
Nucleus	¹ H	Solvent	CHLOROFORM-D	Points Count	65536
Pulse Sequence	zg30			Sweep Width (Hz)	10302.20
Temperature (degree C)	25.155				

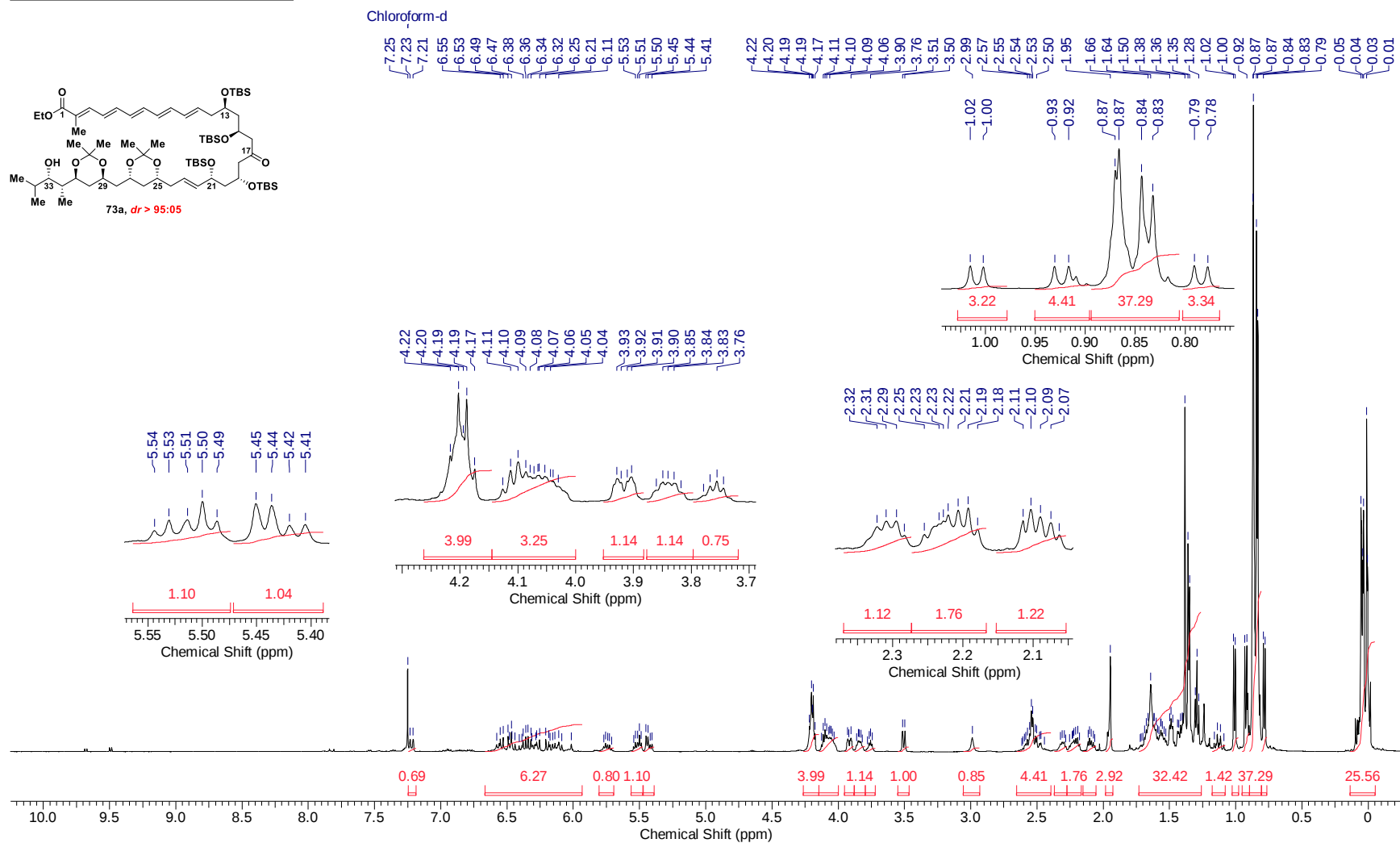


Figure S189: ¹H NMR spectrum of compound **73a** (500 MHz; CDCl₃).

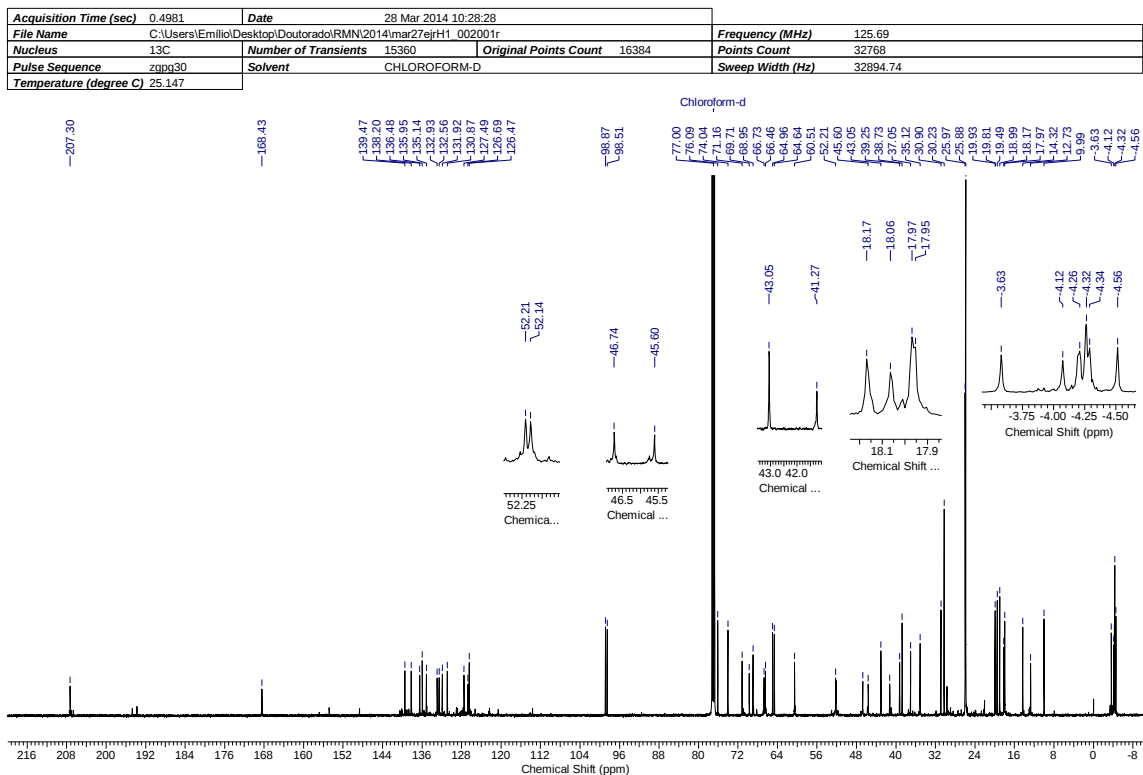


Figure S190: ^{13}C NMR spectrum of compound **73a** (125 MHz; CDCl_3).

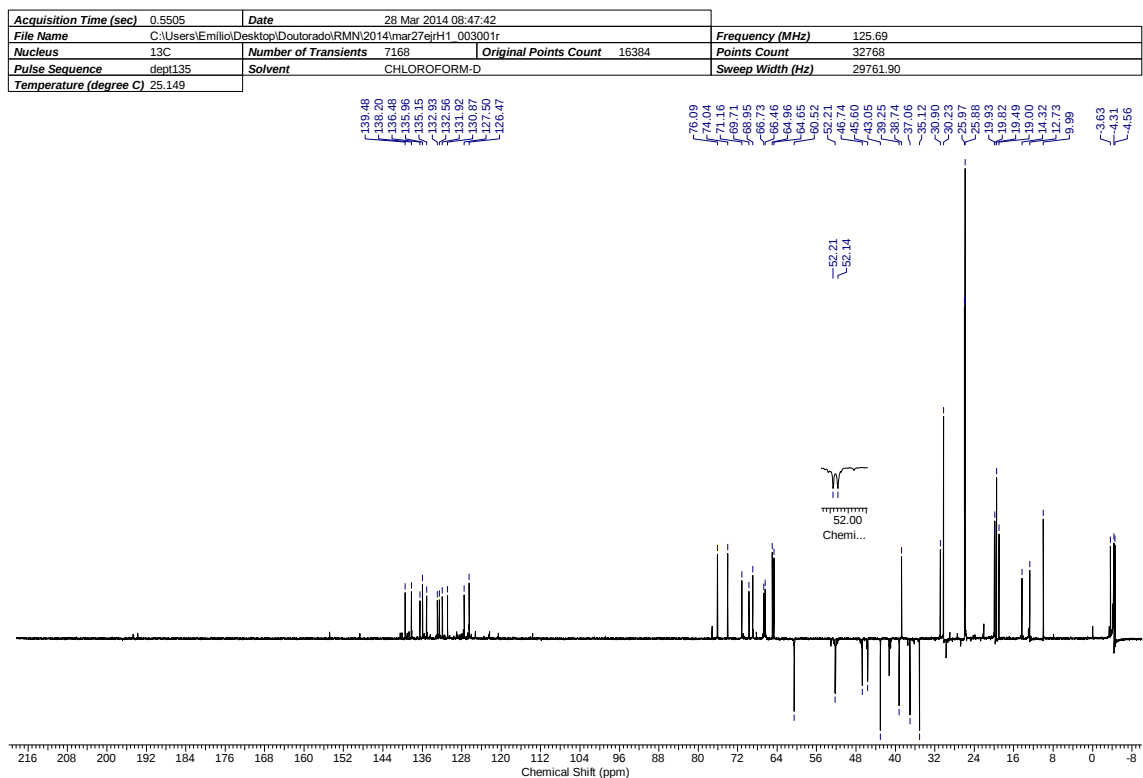


Figure S191: ^{13}C NMR (dept 135) spectrum of compound **73a** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-407P - CDCl3 - Av 500MHz - jan08ejrH1 13C		Date	08 Jan 2015 10:30:26
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\jan08ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C	
Number of Transients	512	Original Points Count	16384	Points Count	32768	Pulse Sequence
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.149	zgpg30

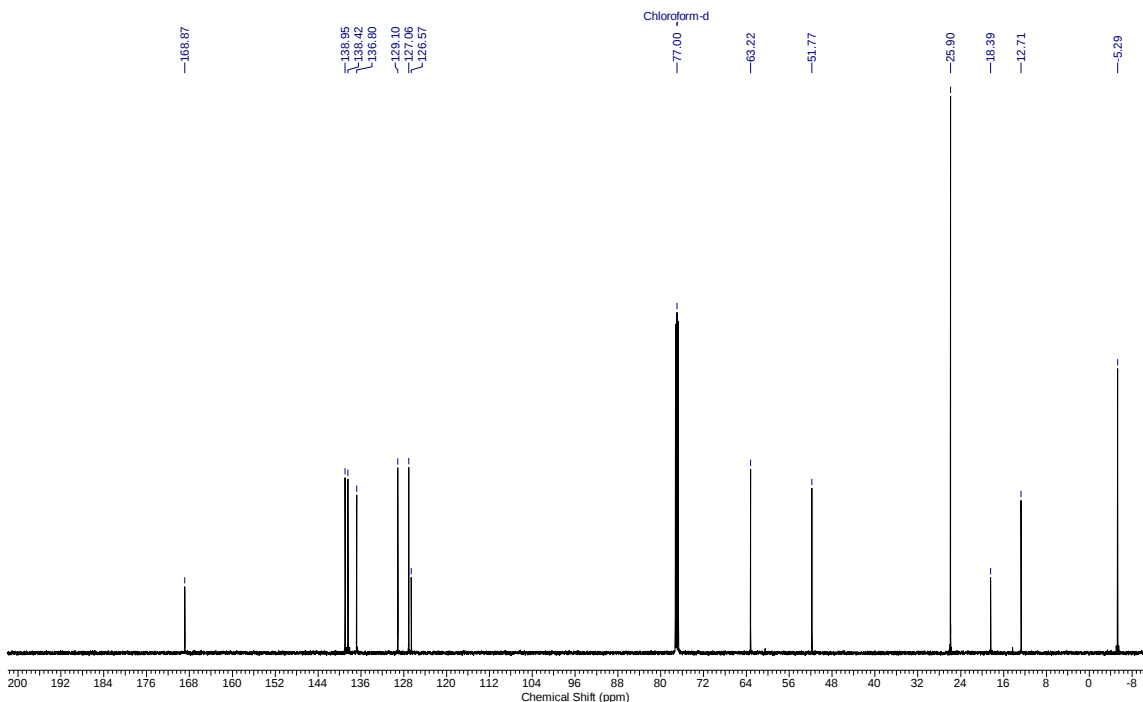


Figure S193: ¹³C NMR spectrum of compound **71b** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-407P - CDCl ₃ - Av 500MHz - jan08ejrH1 DEPT135		Date	08 Jan 2015 10:31:04	
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\jan08ejrH1_003001r		Frequency (MHz)	125.69	Nucleus	13C	
Number of Transients	64	Original Points Count	16384	Points Count	32768	Pulse Sequence	dept135
Solvent	CHLOROFORM-D		Sweep Width (Hz)	29761.90	Temperature (degree C)	25.155	

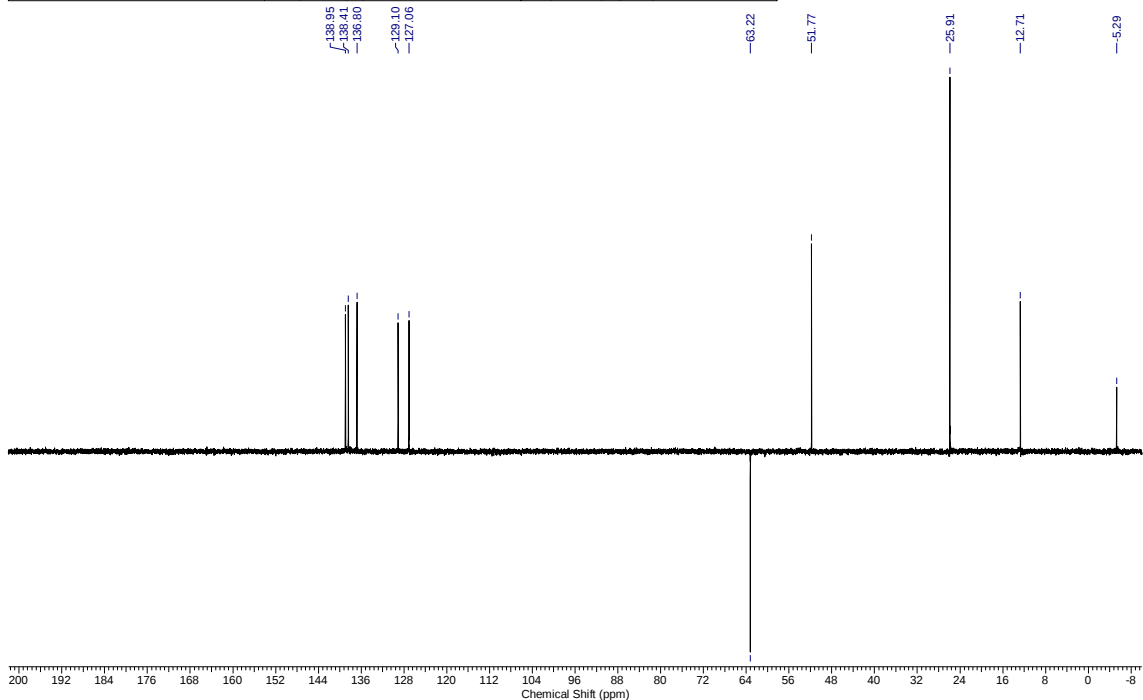


Figure S194: ¹³C NMR (dept 135) spectrum of compound **71b** (125 MHz; CDCl₃).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 049 por LQOS data sexta-feira, janeiro 09 2015
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\IVIEJR407P_1.SP
Date Stamp	frí jan 09 10:59:57 2015 Horário brasileiro de verão (GMT-2:00)	Date	frí jan 09 11:01:14 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000

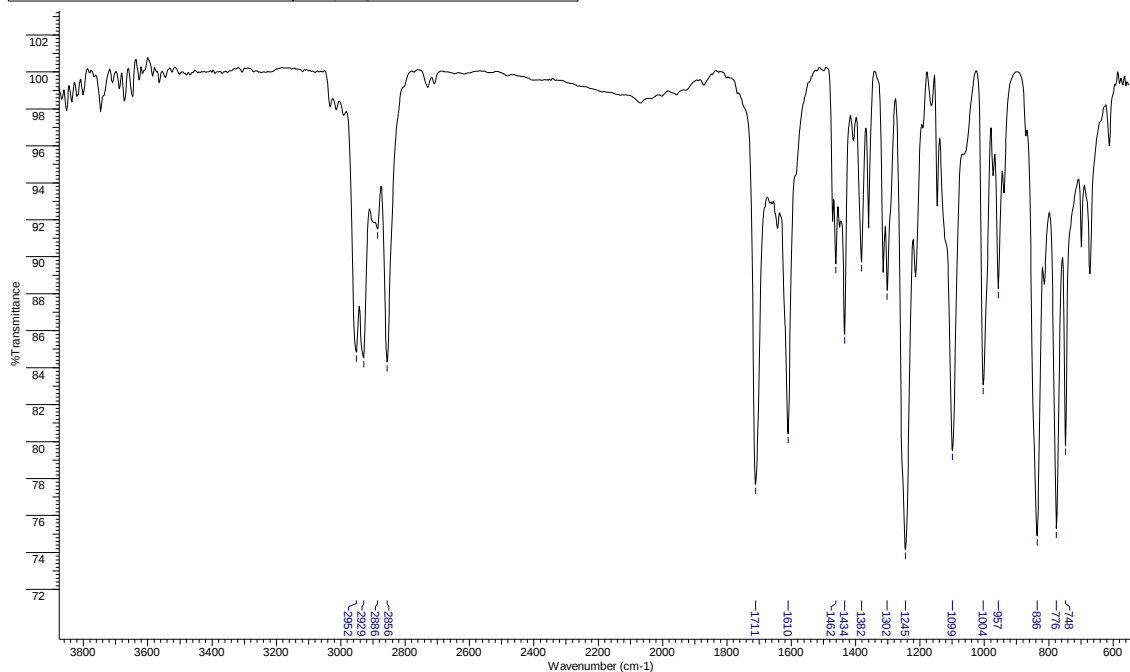


Figure S195: IR spectrum of compound 71b.

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 410 P - CDCl ₃ - Avance 500 MHz - jan27ejrH1 - 13C	Date	27 Jan 2015 13:31:48
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\jan27ejrH1_002001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	2048	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.149
				Pulse Sequence	zgpg30

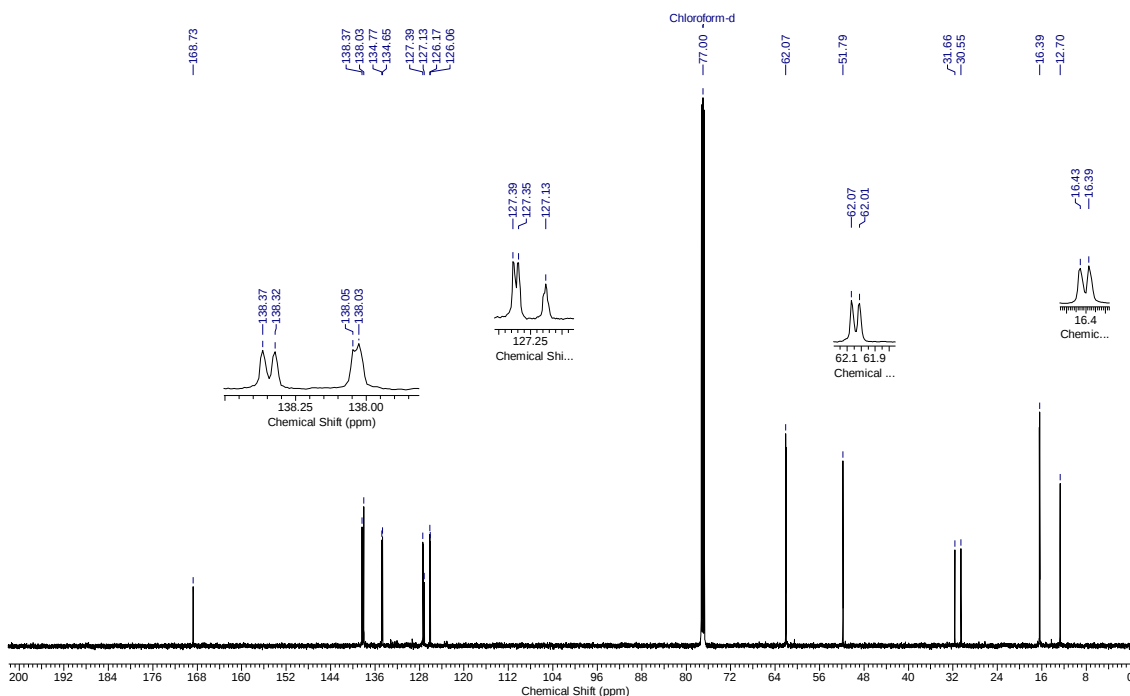


Figure S197: ¹³C NMR spectrum of compound **6b** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR 410 P - CDCl ₃ - Avance 500 MHz - jan27ejrH1 - DEPT 135	Date	27 Jan 2015 13:31:56
File Name	C:\Users\Emilio\Desktop\Doctorado\RMN\2015\jan27ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	13C
Number of Transients	512	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	25.154
				Pulse Sequence	dept135

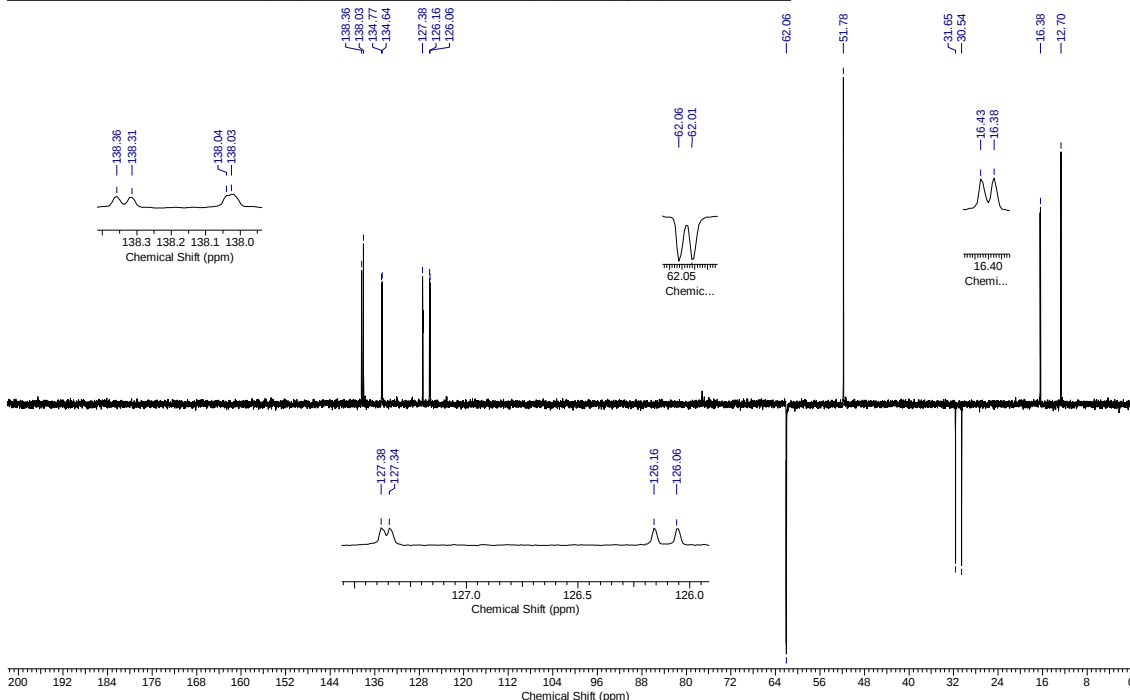
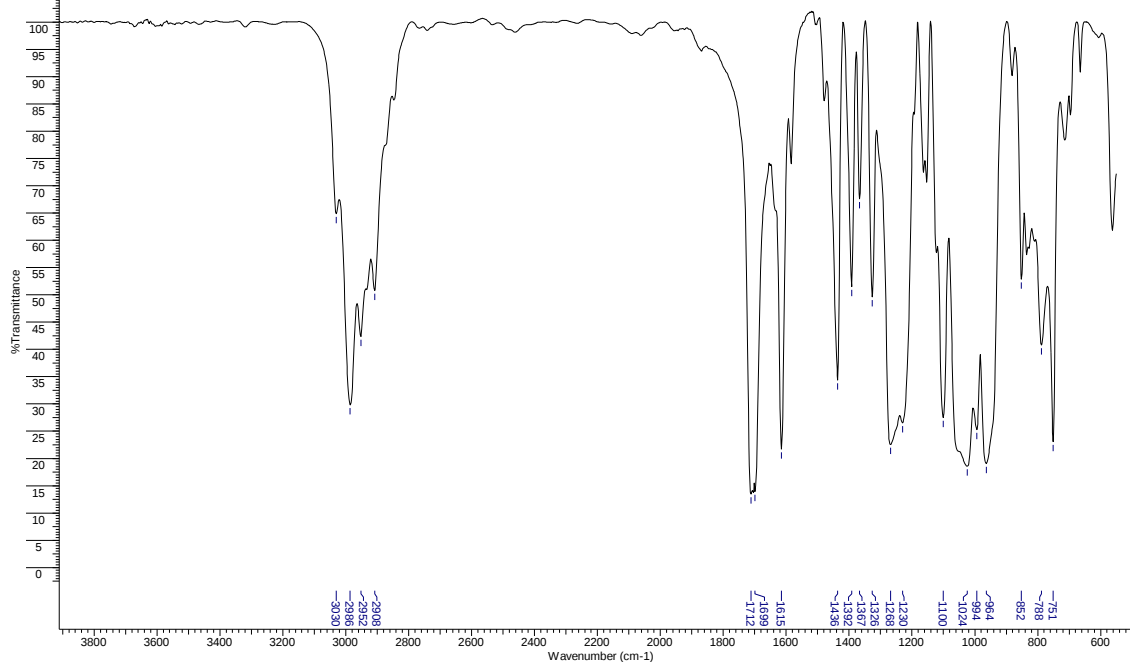


Figure S198: ¹³C NMR (dept 135) spectrum of compound **6b** (125 MHz; CDCl₃).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 054 por LQOS data quinta-feira, janeiro 29 2015
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USERS\EMILIO\DESKTOP\IDOUTORADO\IIV\JR410P_1.SP
Date Stamp	thu jan 29 17:58:32 2015 Horário brasileiro de verão (GMT-2:00)	Date	thu jan 29 17:59:45 2015 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm-1)	Y Axis	% Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000



B010 #54 RT: 0.81 AV: 1 NL: 4.68E7
T: FTMS + p ESI Full ms [150.00-1500.00]

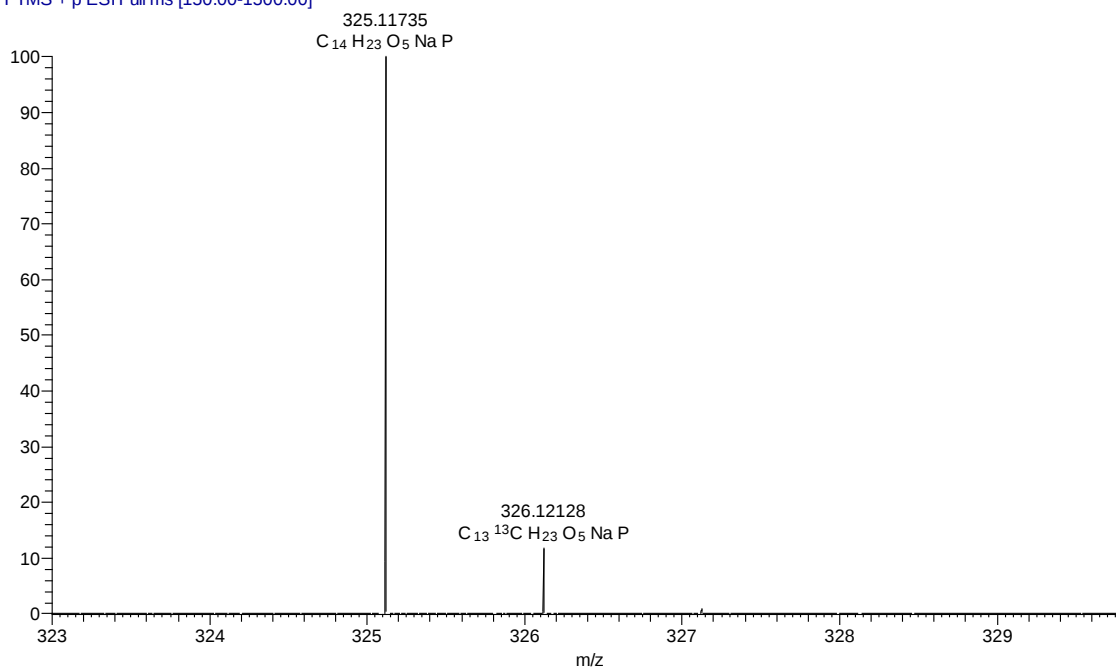


Figure S199: IR and HRMS (ESI FT-ICR-MS) spectra of compound **6b**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR-395P - CDCl ₃ - Av 500MHz - out20ejrH1	Date	20 Oct 2014 14:02:10
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\out20ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	20.150

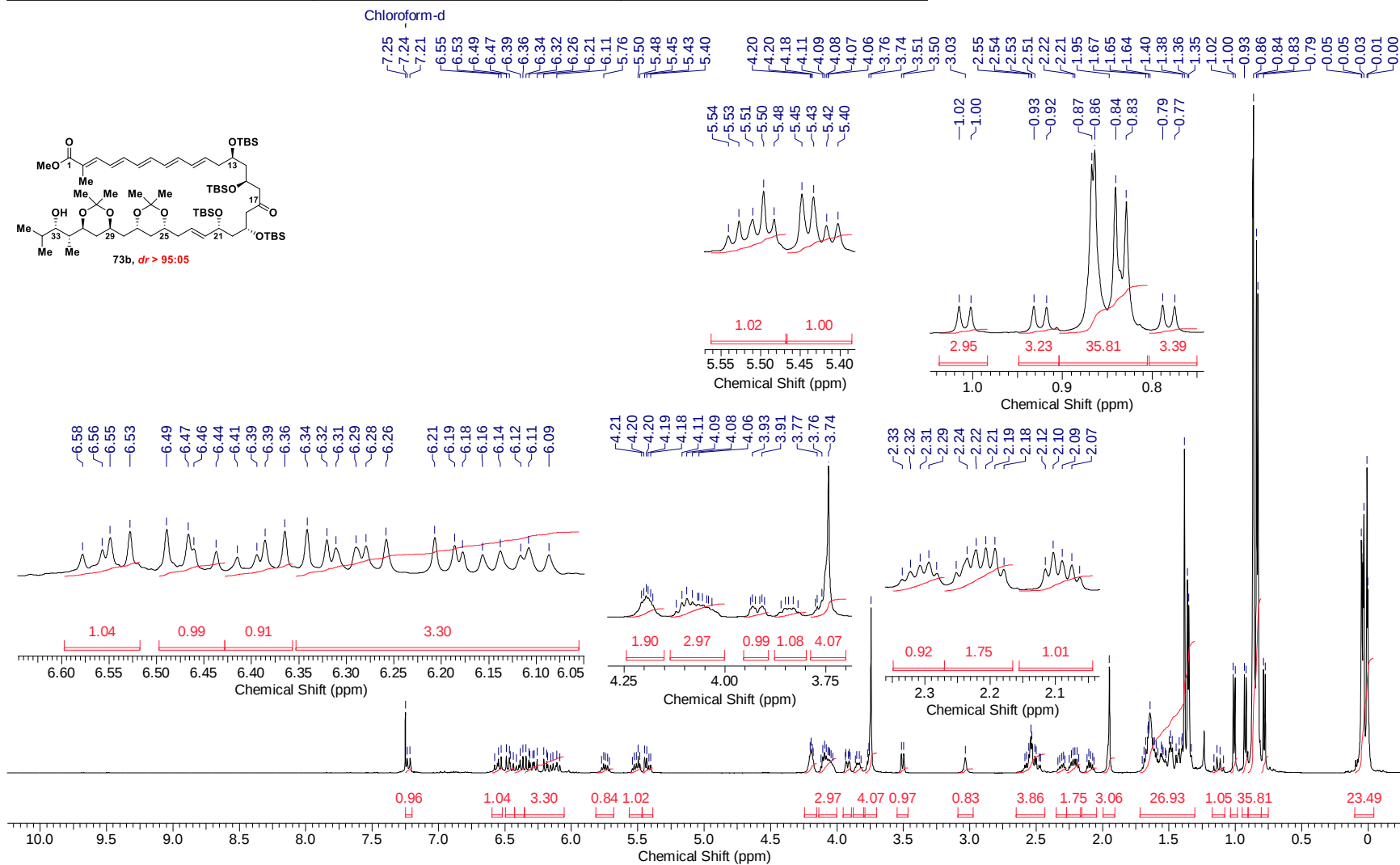


Figure S200: ¹H NMR spectrum of compound **73b** (500 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-395P - CDCl ₃ - Av 500MHz - out20ejrH1 13C	Date	20 Oct 2014 11:40:46
File Name	C:\Users\Emilio\Desktop\Boutorado\RMN\2014\out20ejrH1_002001r	Frequency (MHz)	125.09	Nucleus	¹³ C
Number of Transients	2048	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	20.148

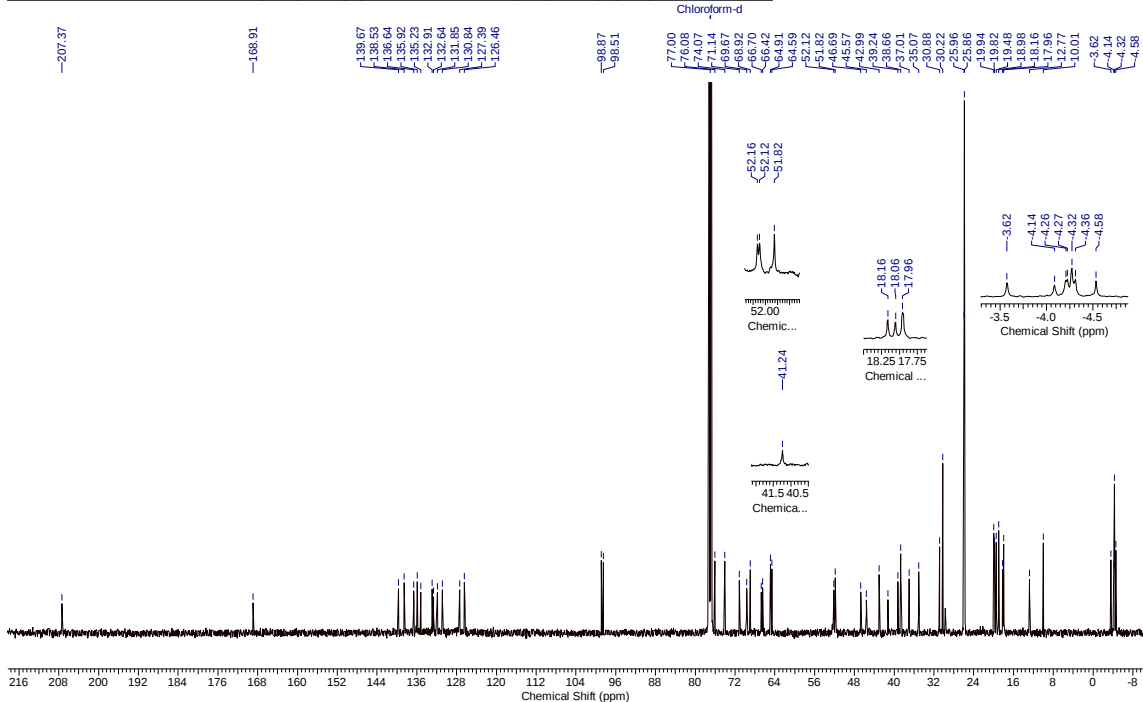


Figure S201: ¹³C NMR spectrum of compound **73b** (125 MHz; CDCl₃).

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-395P - CDCl ₃ - Av 500MHz - out20ejrH1 DEPT135	Date	20 Oct 2014 13:19:50
File Name	C:\Users\Emilio\Desktop\Boutorado\RMN\2014\out20ejrH1_003001r	Frequency (MHz)	125.69	Nucleus	¹³ C
Number of Transients	720	Original Points Count	16384	Points Count	32768
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90	Temperature (degree C)	20.153

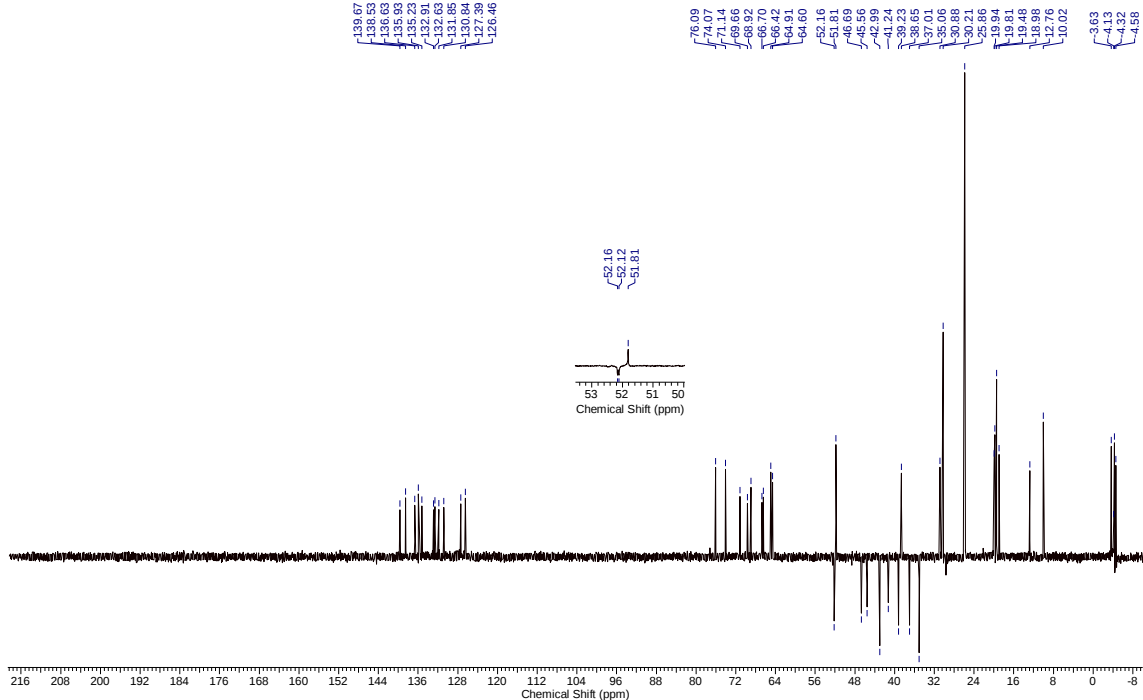
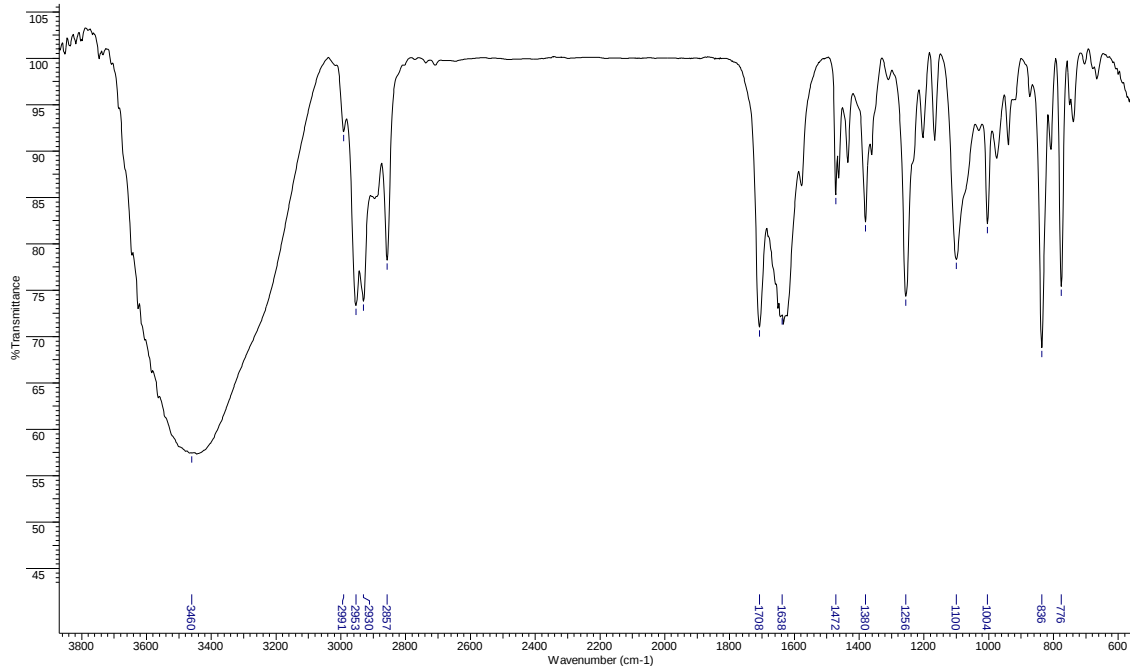


Figure S202: ¹³C NMR (dept 135) spectrum of compound **73b** (125 MHz; CDCl₃).

Title	brasileiro de verão (GMT-2:00)	Comment	Amostra 047 por LQOS data quinta-feira, novembro 13 2014
Origin	brasileiro de verão (GMT-2:00)	File Name	C:\USER\SEMILIO\DESKTOP\DOTORADO\NIVEJR396P_1.SP
Date Stamp	thu nov 13 13:22:45 2014 Horário brasileiro de verão (GMT-2:00)	Date	thu nov 13 13:23:27 2014 Horário brasileiro de verão (GMT-2:00)
Technique	Infrared	Instrument	Spectrum Two
X Axis	Wavenumber (cm ⁻¹)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000
		Spectral Region	IR
		Spectrum Range	550.0000 - 4000.0000



B009 #11 RT: 0.17 AV: 1 NL: 5.68E5
T: FTMS + p ESI Full ms [150.00-1500.00]

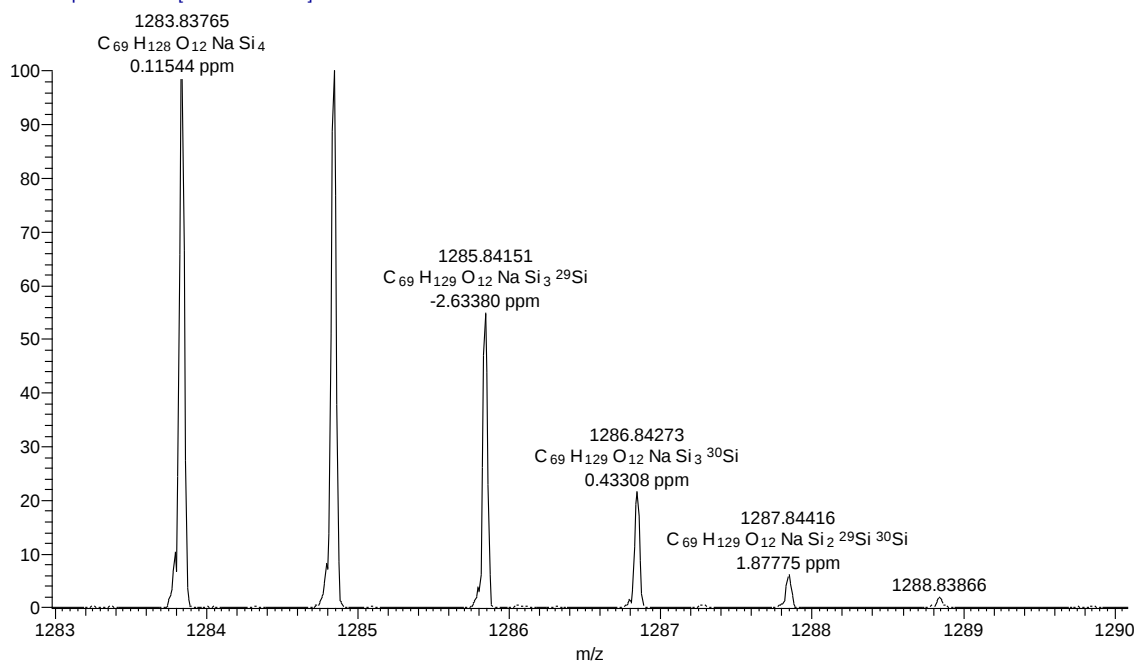


Figure S203: IR and HRMS (ESI FT-ICR-MS) spectra of compound **73b**.

Acquisition Time (sec)	1.6384	Comment	Emilio - EJR-400P - CDCl3 - Av 500MHz - nov03ejrH1	Date	03 Nov 2014 16:44:56
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\nov03ejrH1_001001r	Frequency (MHz)	499.87	Nucleus	¹ H
Number of Transients	16	Original Points Count	16384	Points Count	65536
Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00	Temperature (degree C)	20.154

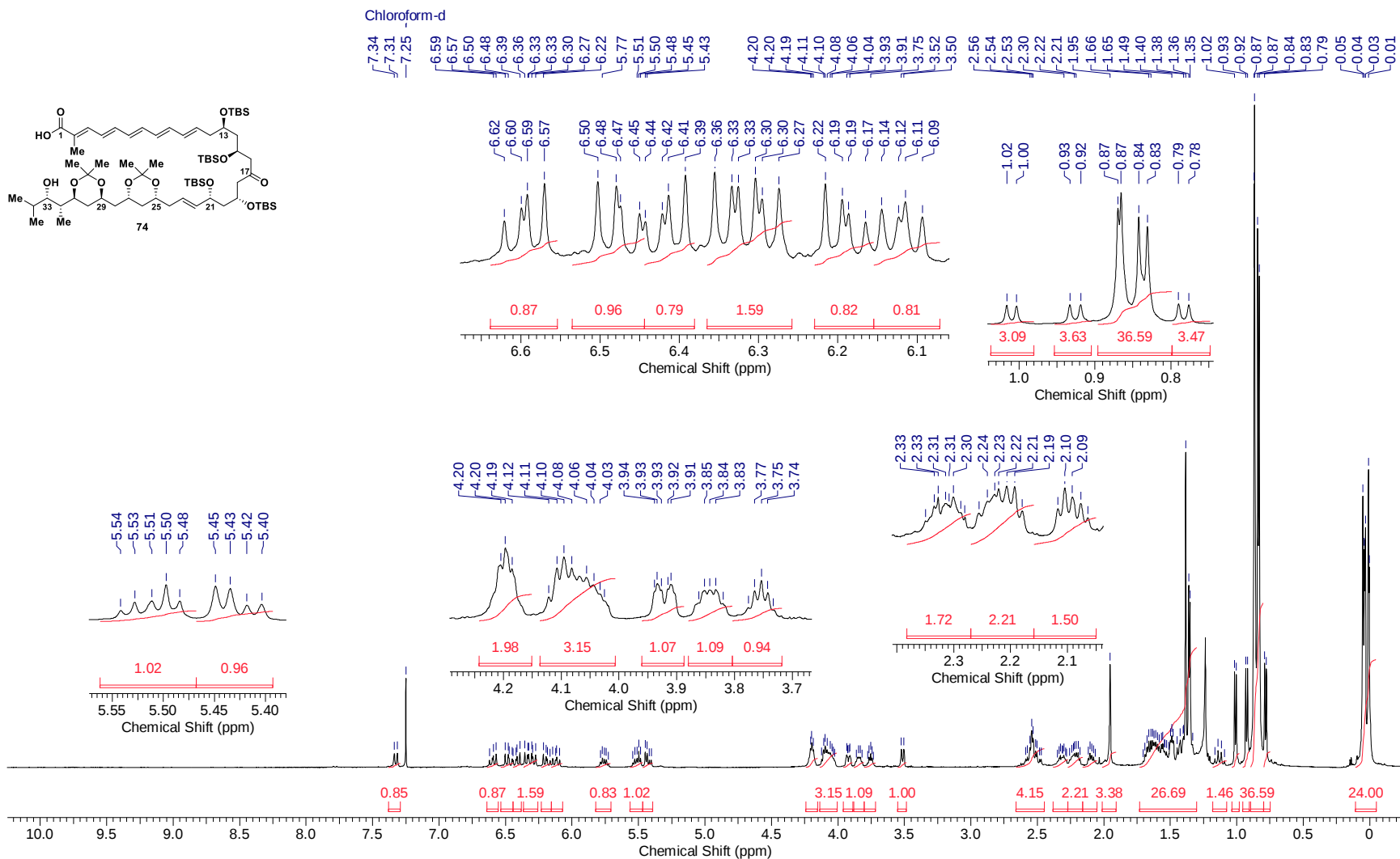


Figure S204: ¹H NMR spectrum of compound 74 (500 MHz; CDCl₃).

¹³C NMR spectrum of compound 10 in CDCl₃. The spectrum shows peaks from 0 to 216 ppm. Key peaks are labeled: 207.41, 172.71, 140.61, 137.23, 136.92, 136.58, 132.89, 131.74, 129.69, 127.26, 126.46, 125.42, 98.89, 98.52, 77.00, 74.07, 71.15, 69.65, 68.93, 66.69, 64.92, 64.91, 64.61, 52.12, 46.69, 45.57, 42.99, 39.23, 38.65, 35.22, 35.06, 30.87, 30.21, 25.96, 23.87, 19.82, 19.48, 18.98, 18.17, 17.96, 17.46, 10.01, 3.62, 4.13, 4.17, 4.32, 4.36, 4.58, 4.13, 4.32.

Acquisition Time (sec)	0.5505	Comment	Emilio - EJR-400P - CDCI3 - Av 500MHz - nov03ejrH1 DEPT135		Date	03 Nov 2014 17:54:06		
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2014\nov03ejrH1_003001r			Frequency (MHz)	125.69		Nucleus	13C
Number of Transients	1024			Points Count	32768		Pulse Sequence	dept135
Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90		Temperature (degree C)	20.154		

Chemical Shift (ppm)
140.62
140.42
137.24
135.93
135.58
135.51
133.74
130.80
127.27
126.47
76.14
74.07
71.15
69.65
68.94
68.61
66.43
64.92
64.61
52.12
52.17
46.70
45.57
43.99
41.25
39.24
38.65
37.02
36.68
30.88
30.22
25.96
25.87
19.84
18.65
18.48
16.98
12.45
10.02
3.62
4.13
4.31

S160

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 006 por LQOS data segunda-feira, abril 06 2015	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOCTORADO\IVEJR419P_1.SP	Date Stamp	mon apr 06 14:59:21 2015 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	mon apr 06 14:59:50 2015 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		

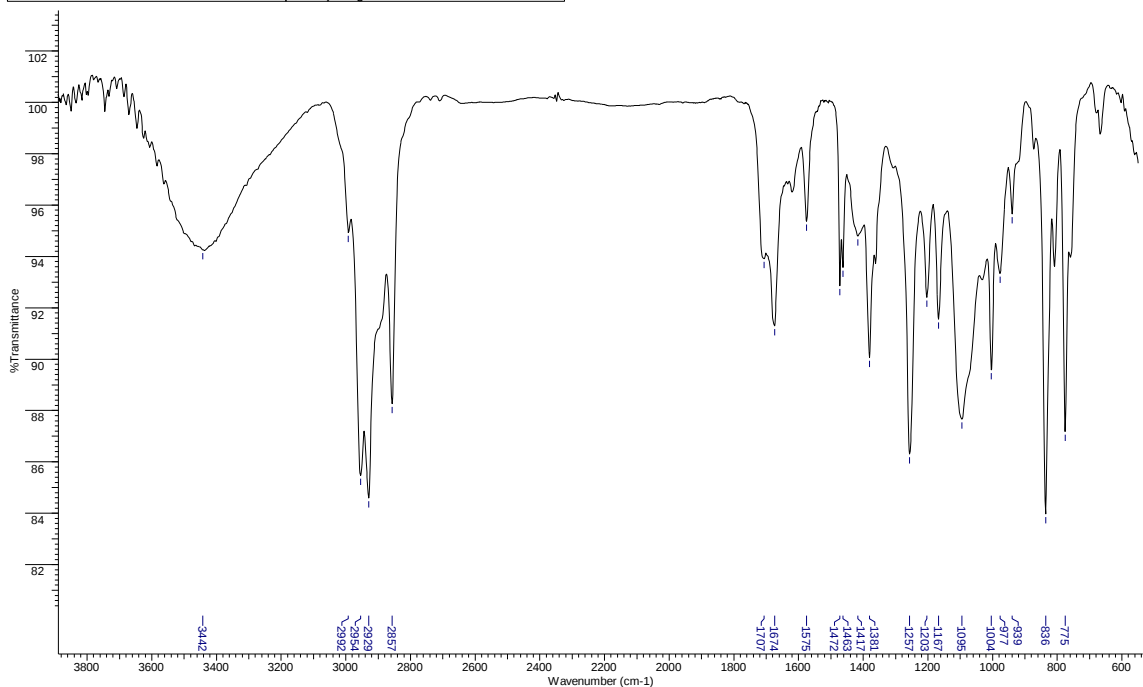


Figure S207: IR spectrum of compound 74.

Acquisition Time (sec)	4.0894	Date	18 May 2015 17:19:34	Frequency (MHz)	400.18
File Name	C:\Users\Emilio\Desktop\Doutorado\Tese\pendencias\400\mai18ejrH1_001001r	Number of Transients	16	Points Count	65536
Nucleus	¹ H	Original Points Count	32768	Sweep Width (Hz)	8012.82
Pulse Sequence	zg30	Solvent	ACETONITRILE-D3		
Temperature (degree C)	25.160				

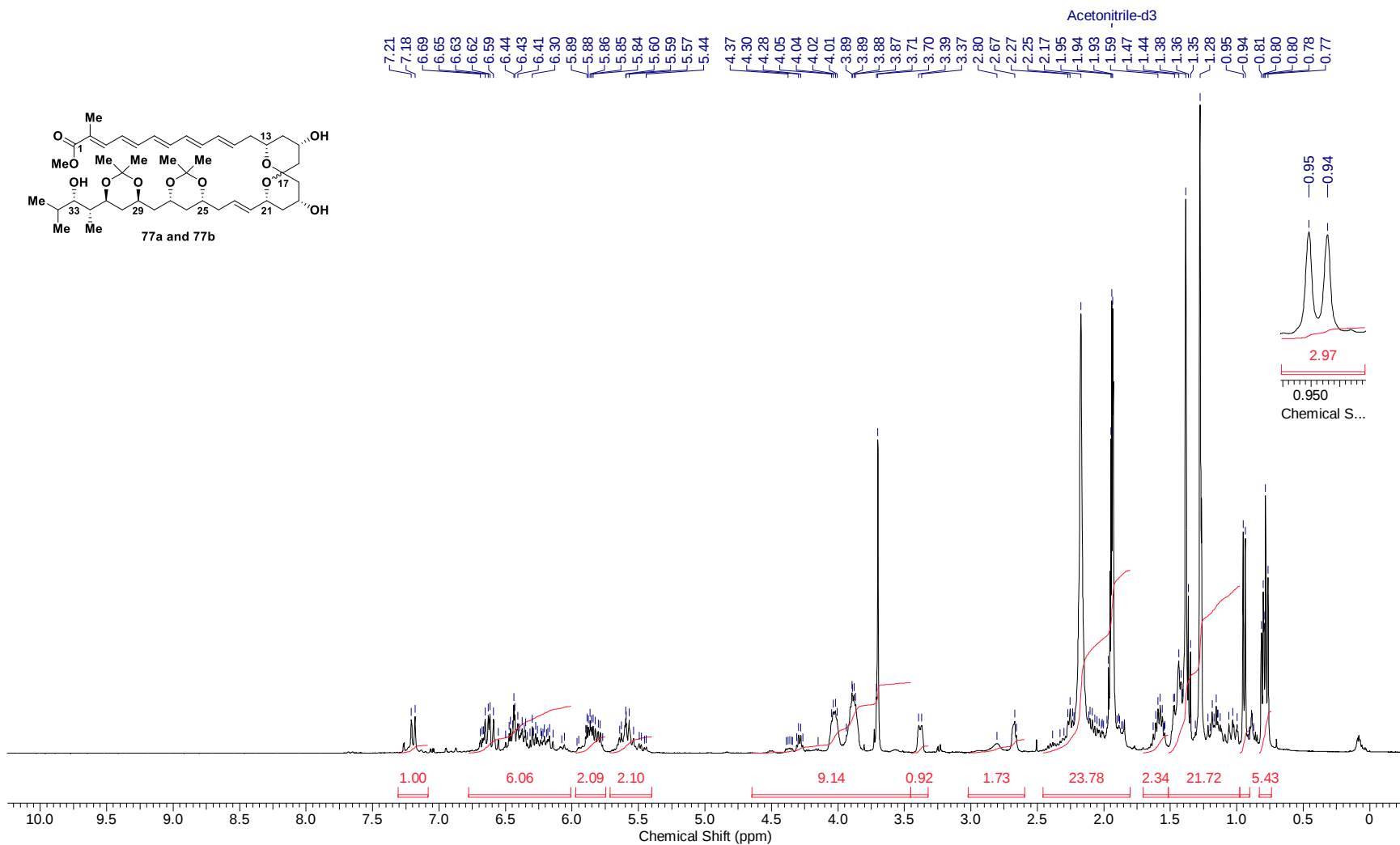


Figure S208: ¹H NMR spectrum of compound **77a** and **77b** (400 MHz; MeCN-d₃).

S163

Acquisition Time (sec)	0.4981	Comment	Emilio - EJR-475PB - MeCN - Av 500MHz - mai18ejrH1 13C	Date	18 May 2015 10:54:38
File Name	C:\Users\Emilio\Desktop\Doctorado\Tesis\pendencias\mai18ejrH1_002001r			Frequency (MHz)	125.69
Nucleus	13C	Number of Transients	1058	Original Points Count	16384
Pulse Sequence	zgpg30	Solvent	ACETONITRILE-D3	Sweep Width (Hz)	32894.74
				Points Count	32768
				Temperature (degree C)	25.155

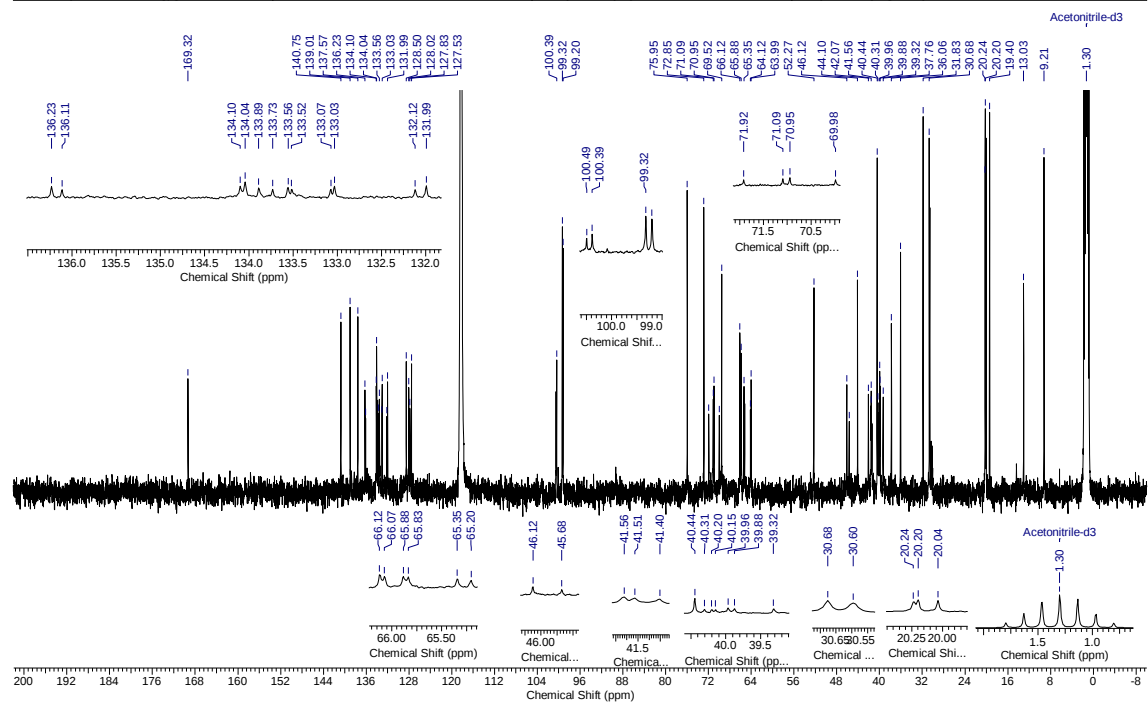


Figure S211: ^{13}C NMR spectrum of compound **77c** and **77d** (125 MHz; $\text{MeCN-}d_3$).

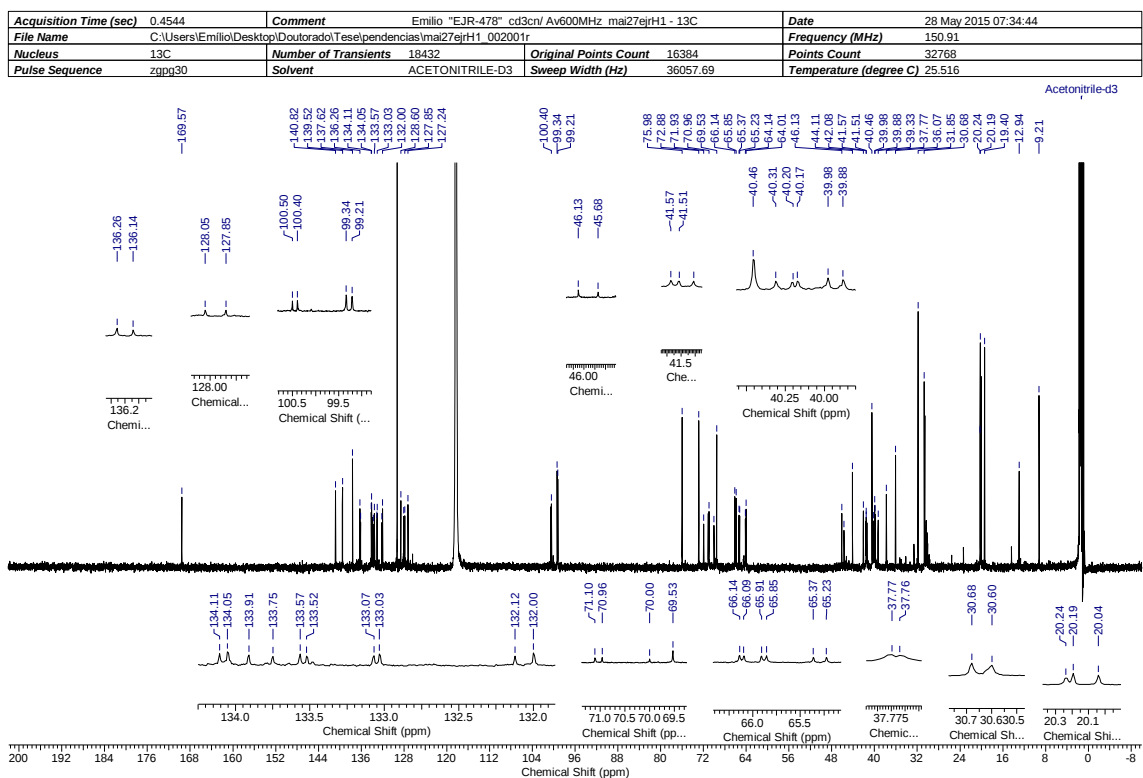


Figure S213: ^{13}C NMR spectrum of compound **78** (150 MHz; MeCN-d_3).

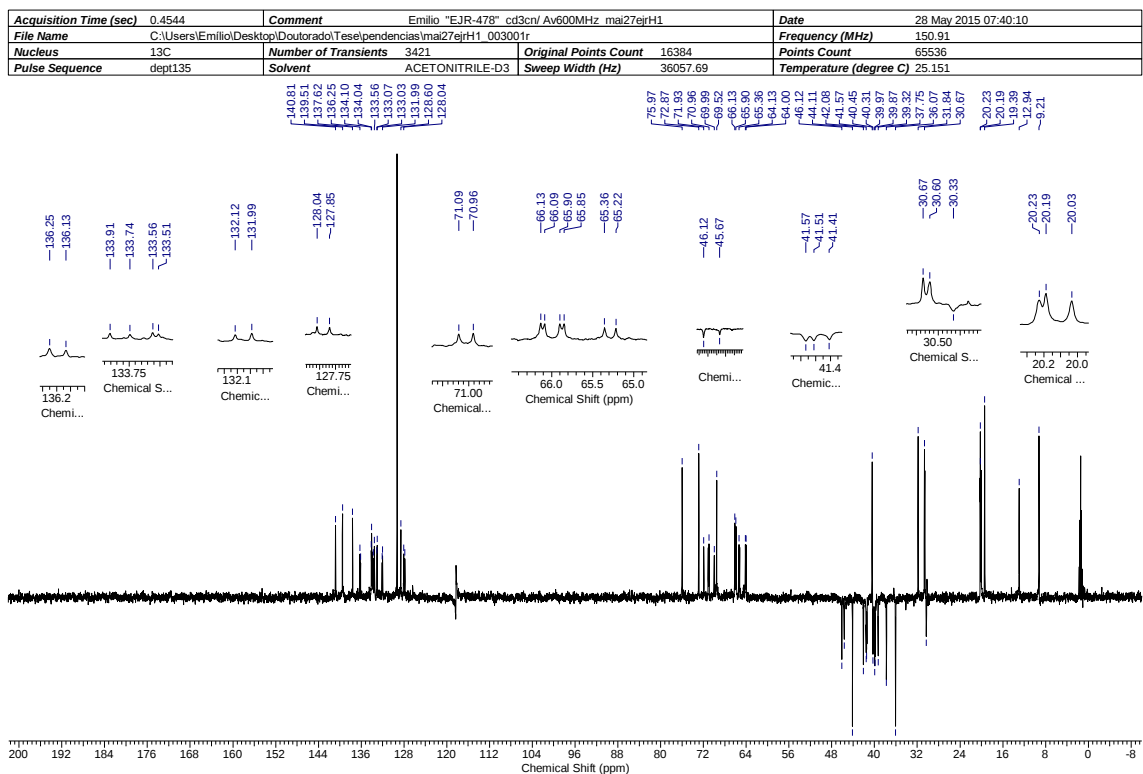


Figure S214: ^{13}C NMR (dept 135) spectrum of compound **78** (150 MHz; MeCN-d_3).

Copies of ^1H and ^{13}C NMR, IR, and HRMS spectra for fragment C8–C35:

Acquisition Time (sec)	1.6384	Comment	Emilio "EJR-452P" cdcl3/ Av500MHz mar30ejrH2	Date	31 Mar 2015 07:21:04
File Name	C:\Users\Emilio\Desktop\Doutorado\Tese\pendencias\mar30ejrH2_001001r			Frequency (MHz)	499.87
Nucleus	^1H	Number of Transients	16	Original Points Count	16384
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00
				Points Count	65536
				Temperature (degree C)	25.147

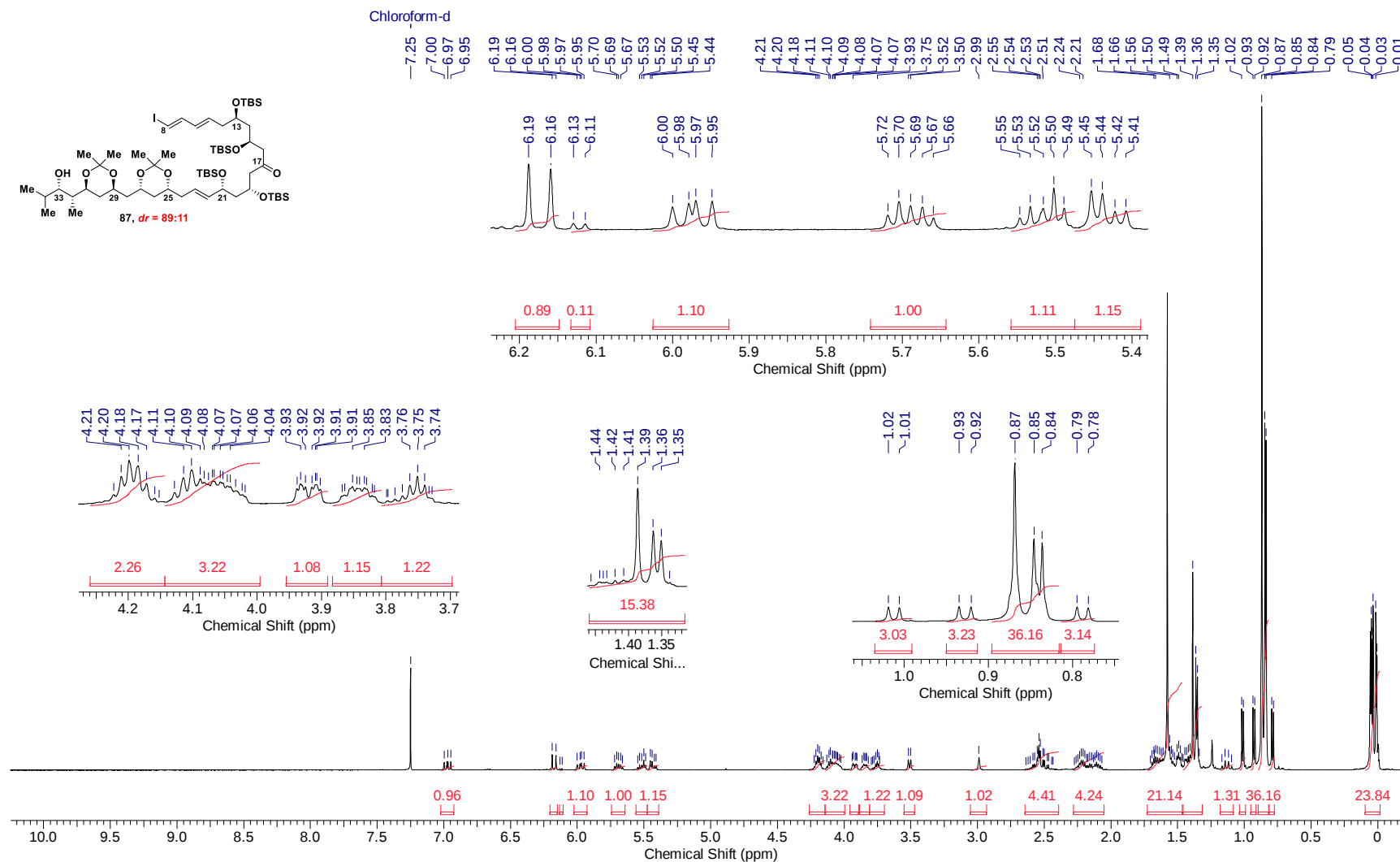


Figure S215: ^1H NMR spectrum of compound **87** (500 MHz; CDCl_3).

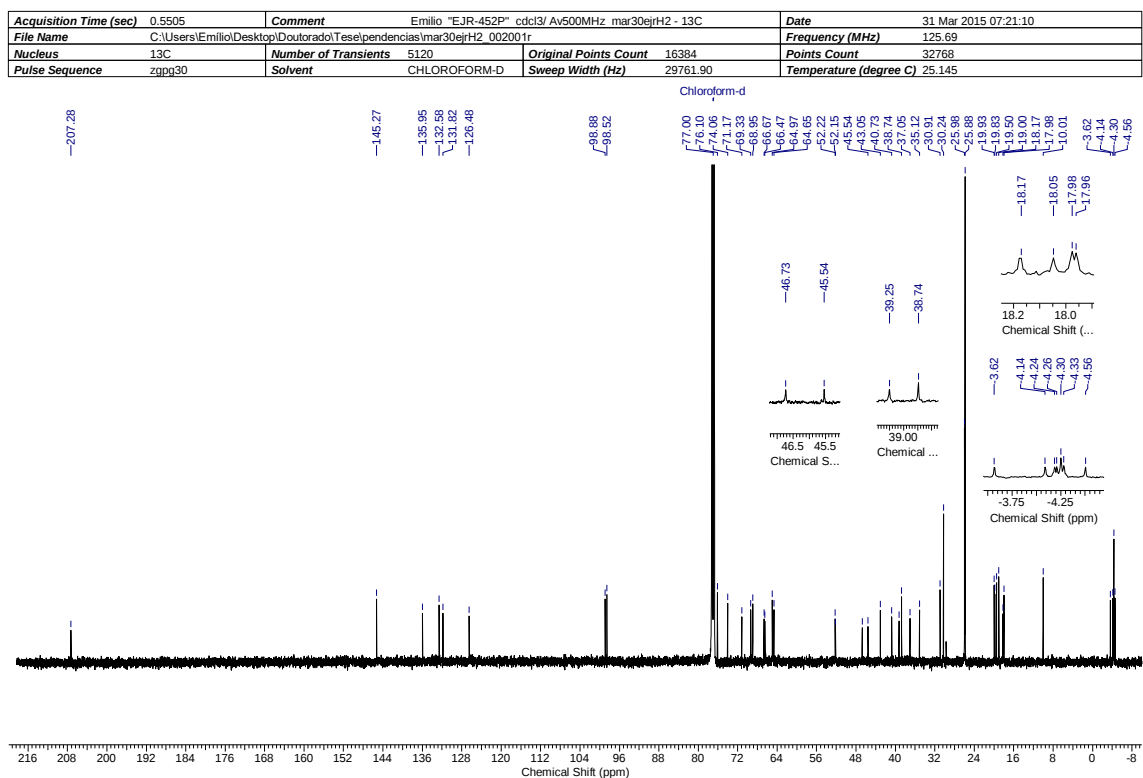


Figure S216: ^{13}C NMR spectrum of compound **87** (125 MHz; CDCl_3).

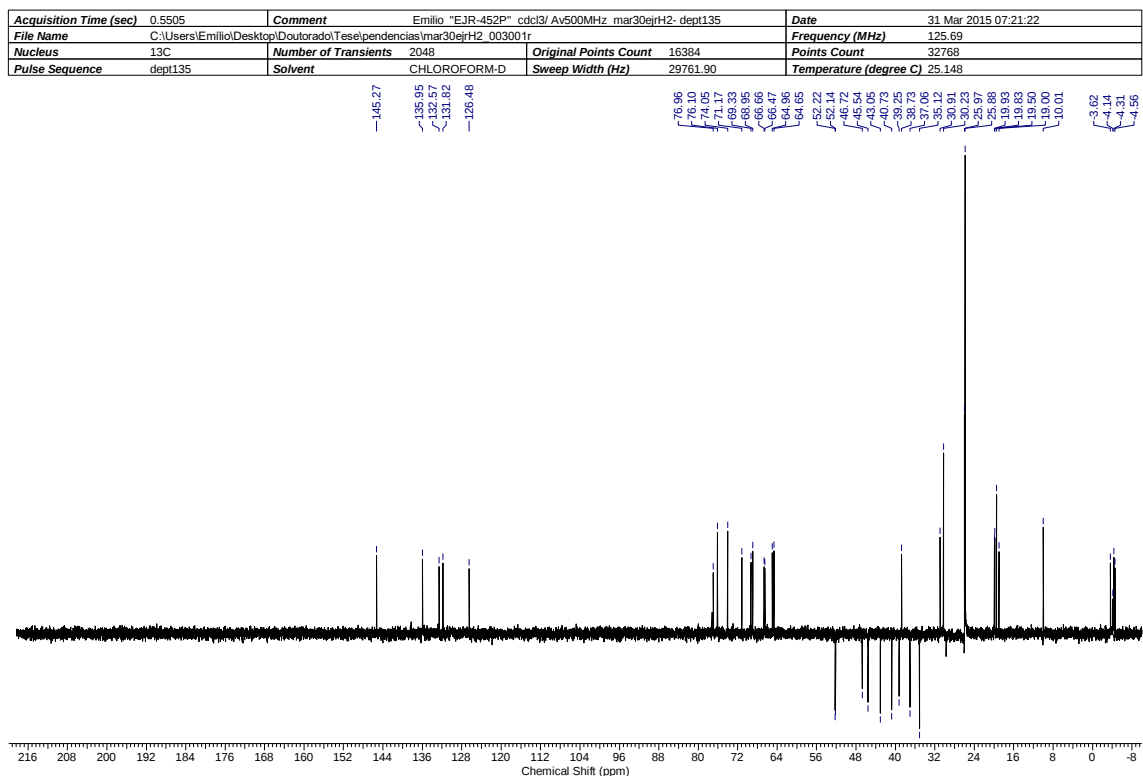


Figure S217: ^{13}C NMR (dept 135) spectrum of compound **87** (125 MHz; CDCl_3).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 003 por LQOS data quarta-feira, abril 01 2015	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVEJR452P_1.SP	Date Stamp	wed apr 01 16:14:21 2015 Hora oficial do Brasil (GMT-3:00)	Instrument	Spectrum Two
Date	wed apr 01 16:14:43 2015 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Spectrum Range	550.0000 - 4000.0000
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		

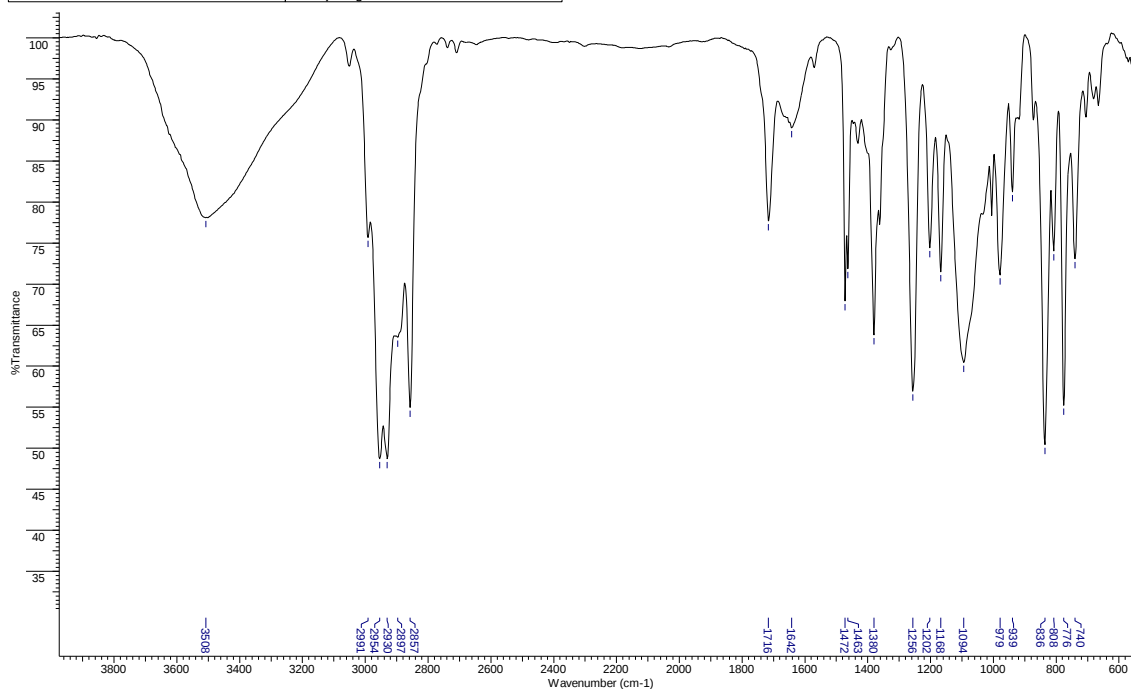


Figure S218: IR spectrum of compound **87**.

Acquisition Time (sec)	1.6384	Comment	Emilio "EJR-453P" cdcl3/ Av500MHz mar30ejrH3	Date	31 Mar 2015 09:12:46
File Name	C:\Users\Emilio\Desktop\Doctorado\Tese\pendencias\mar30ejrH3_001001r	Frequency (MHz)	499.87	Points Count	65536
Nucleus	¹ H	Number of Transients	16	Original Points Count	16384
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00
				Temperature (degree C)	25.147

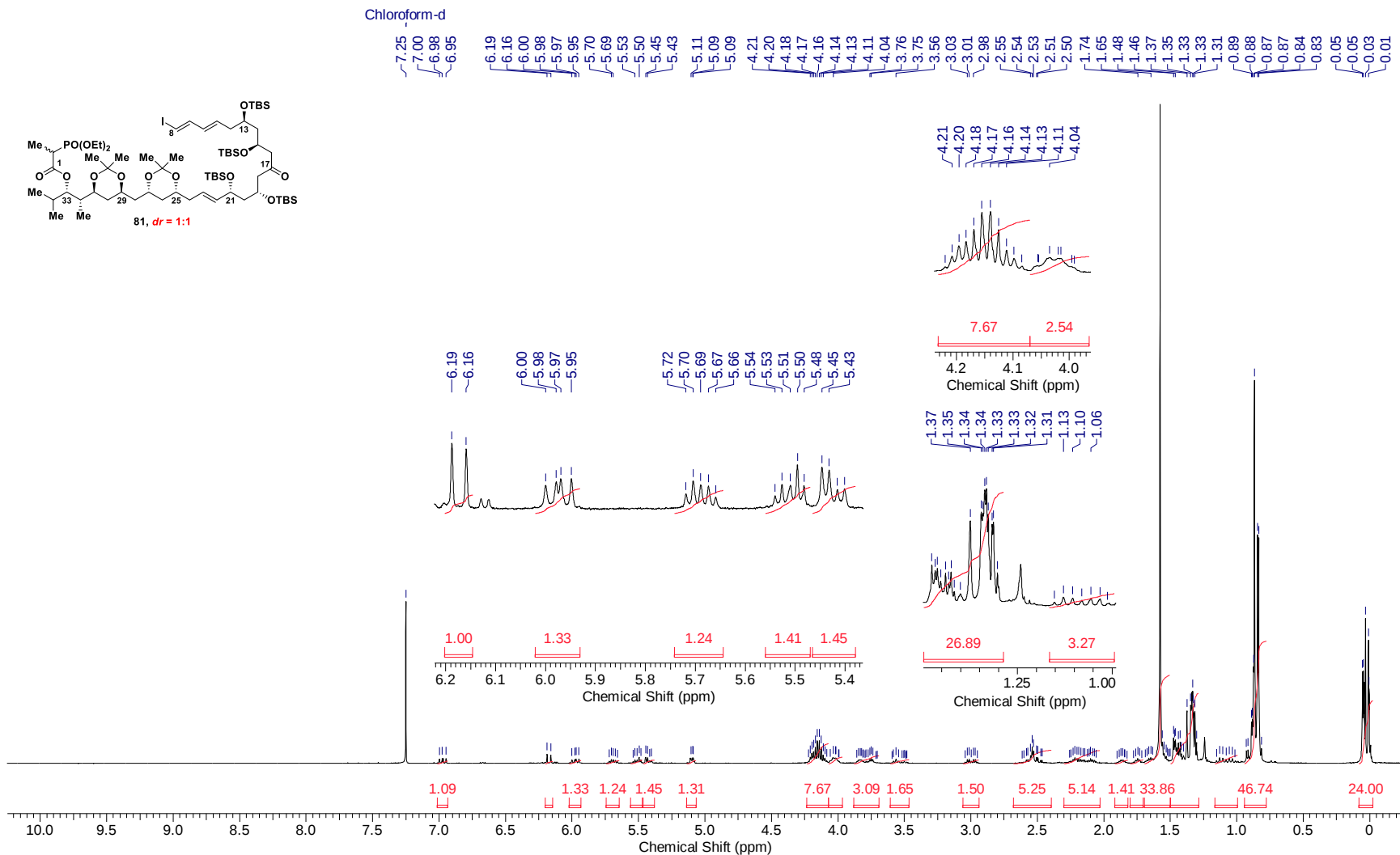


Figure S219: ¹H NMR spectrum of compound **81** (500 MHz; CDCl₃).

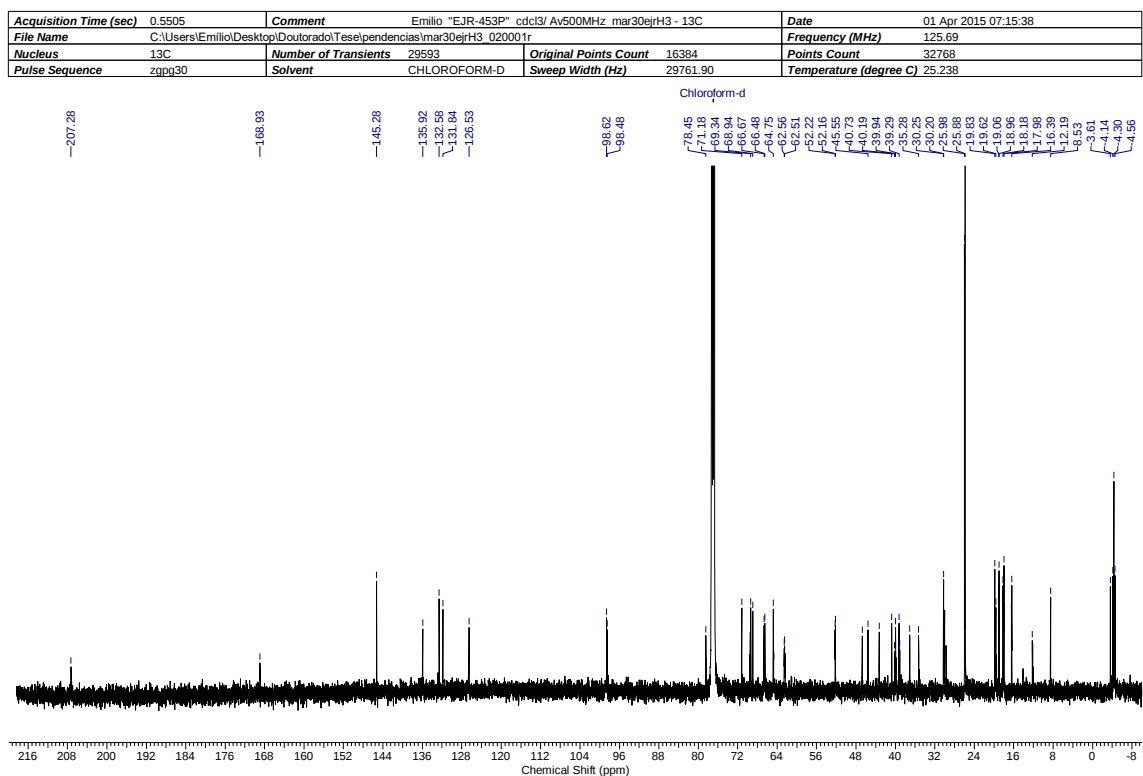


Figure S220: ^{13}C NMR spectrum of compound **81** (125 MHz; CDCl_3).

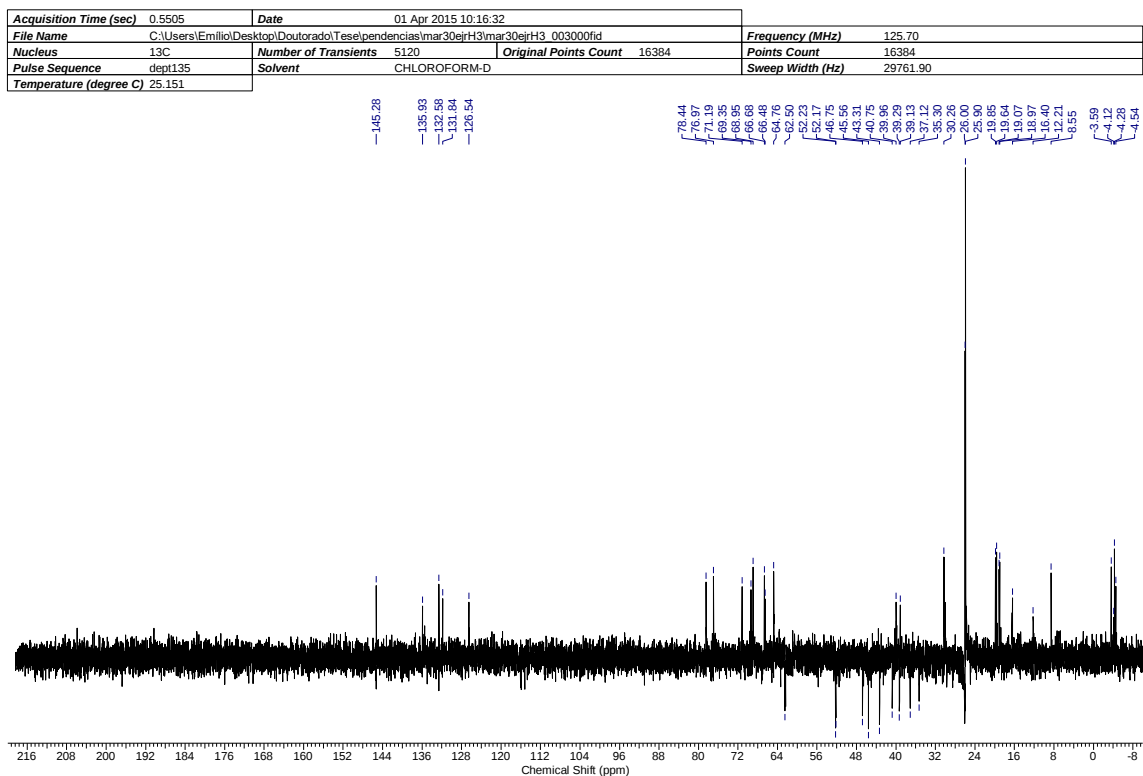


Figure S221: ^{13}C NMR (dept 135) spectrum of compound **81** (125 MHz; CDCl_3).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 004 por LQOS data quarta-feira, abril 01 2015	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOUTORADO\IVEJR453P_1.SP	Date Stamp	wed apr 01 16:19:33 2015 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	wed apr 01 16:20:14 2015 Hora oficial do Brasil (GMT-3:00)	X Axis	Wavenumber (cm-1)	Instrument	Spectrum Two
Spectral Region	IR	Y Axis	%Transmittance	Spectrum Range	550.0000 - 4000.0000
Points Count	3451	Data Spacing	1.0000		

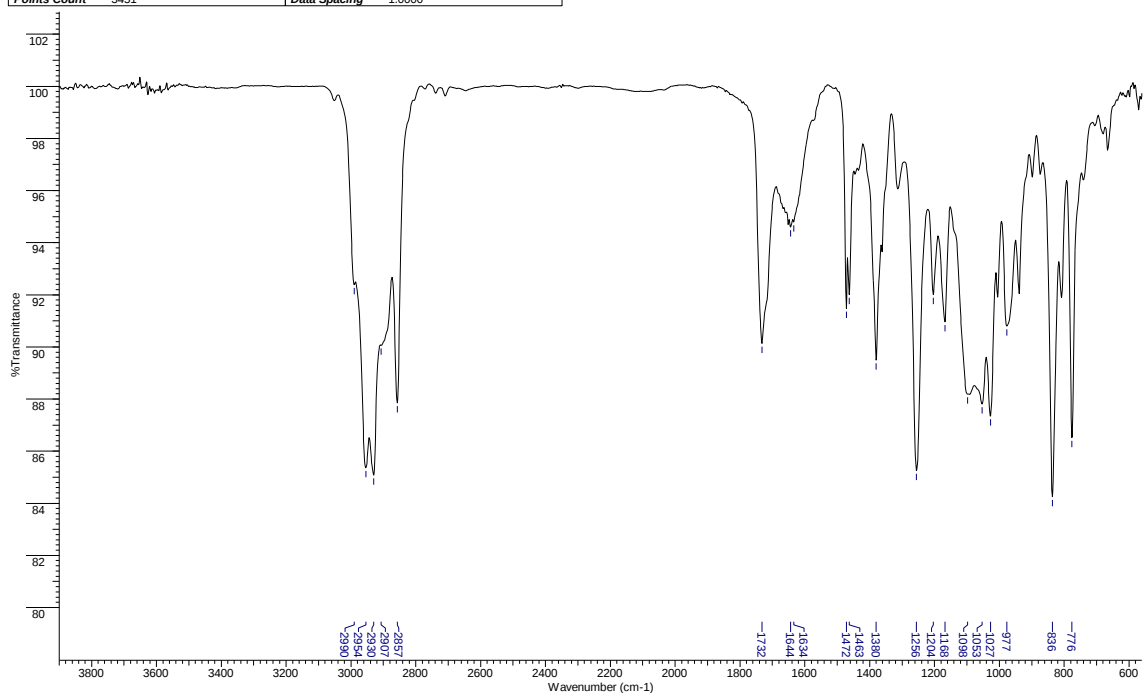


Figure S222: IR spectrum of compound 81.

Copies of ^1H and ^{13}C NMR, IR, and HRMS spectra for fragment C3–C7:

Acquisition Time (sec)	1.6384	Comment	Emilio "EJR-456P" cdcl3/ Av500MHz mar30ejrH1	Date	30 Mar 2015 16:07:02
File Name	C:\Users\Emilio\Desktop\Doutorado\Tese\pendencias\mar30ejrH1_001001r			Frequency (MHz)	499.87
Nucleus	^1H	Number of Transients	16	Original Points Count	16384
Pulse Sequence	zg30	Solvent	CHLOROFORM-D	Sweep Width (Hz)	10000.00
				Points Count	65536
				Temperature (degree C)	25.151

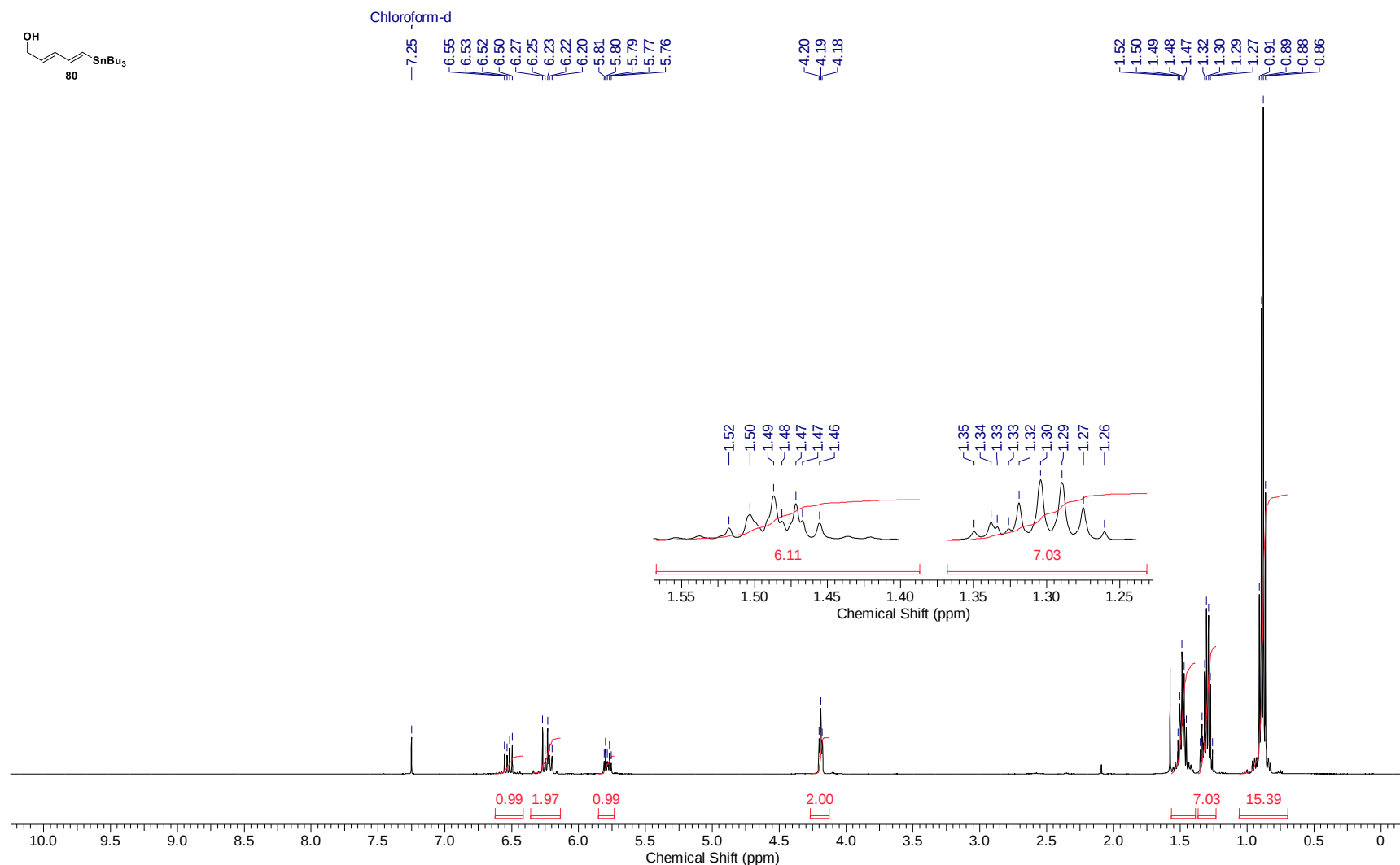


Figure S223: ^1H NMR spectrum of compound **80** (500 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio "EJR-456P" cdc13/ Av500MHz mar30ejrH1 - 13C	Date	30 Mar 2015 17:30:08
File Name	C:\Users\Emilio\Desktop\Doctorado\Teselpendencias\mar30ejrH1_002001r			Frequency (MHz)	125.69
Nucleus	13C	Number of Transients	1280	Original Points Count	16384
Pulse Sequence	zgpg30	Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90
				Points Count	32768
				Temperature (degree C)	25.151

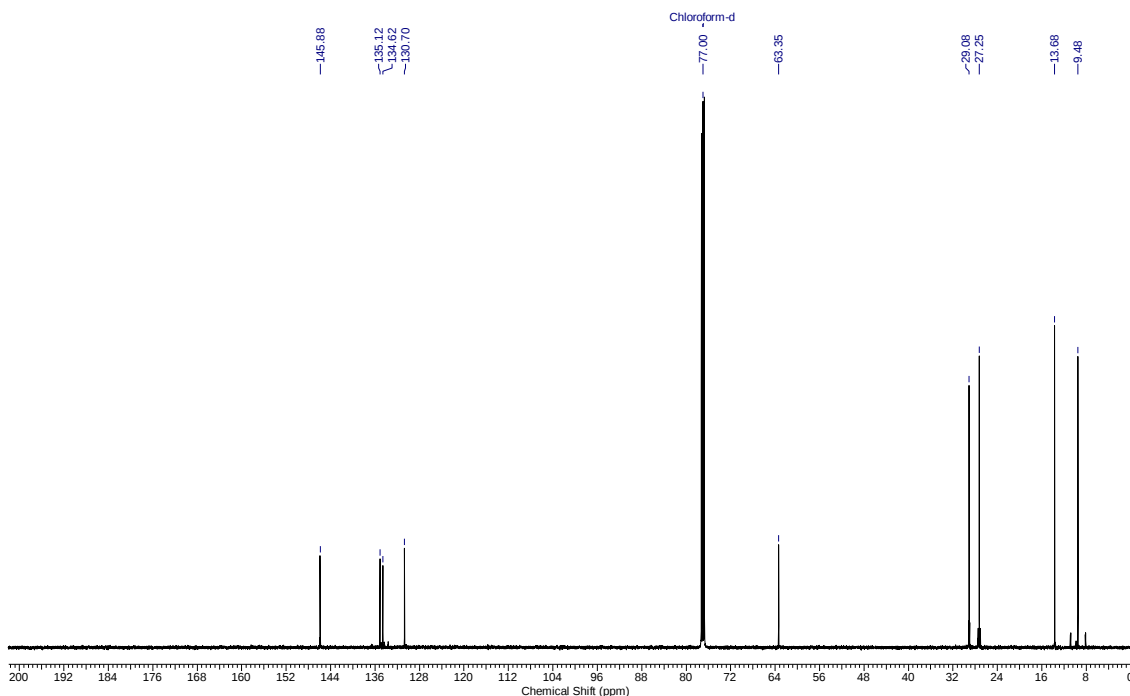


Figure S224: ^{13}C NMR spectrum of compound **80** (125 MHz; CDCl_3).

Acquisition Time (sec)	0.5505	Comment	Emilio "EJR-456P" cdc13/ Av500MHz mar30ejrH1 - dept135	Date	30 Mar 2015 17:30:32
File Name	C:\Users\Emilio\Desktop\Doctorado\Teselpendencias\mar30ejrH1_003001r			Frequency (MHz)	125.69
Nucleus	13C	Number of Transients	512	Original Points Count	16384
Pulse Sequence	dept135	Solvent	CHLOROFORM-D	Sweep Width (Hz)	29761.90
				Points Count	32768
				Temperature (degree C)	25.151

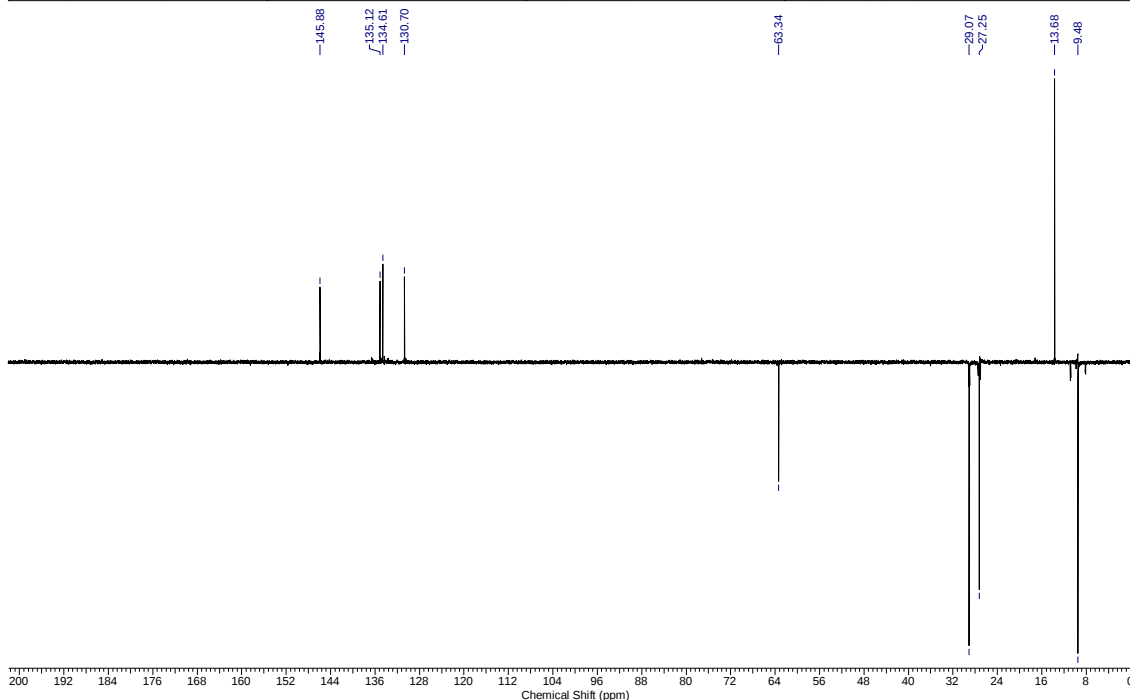


Figure S225: ^{13}C NMR (dept 135) spectrum of compound **80** (125 MHz; CDCl_3).

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 005 por LQOS data quarta-feira, abril 01 2015	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USER\SEMILIO\DESKTOP\DOCTORADO\IVE\IR456P_1.SP	Date Stamp	wed apr 01 16:35:04 2015 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared
Date	wed apr 01 16:35:33 2015 Hora oficial do Brasil (GMT-3:00)	X Axis	Wavenumber (cm-1)	Instrument	Spectrum Two
Spectral Region	IR	Y Axis	%Transmittance	Spectrum Range	550.0000 - 4000.0000
Points Count	3451	Data Spacing	1.0000		

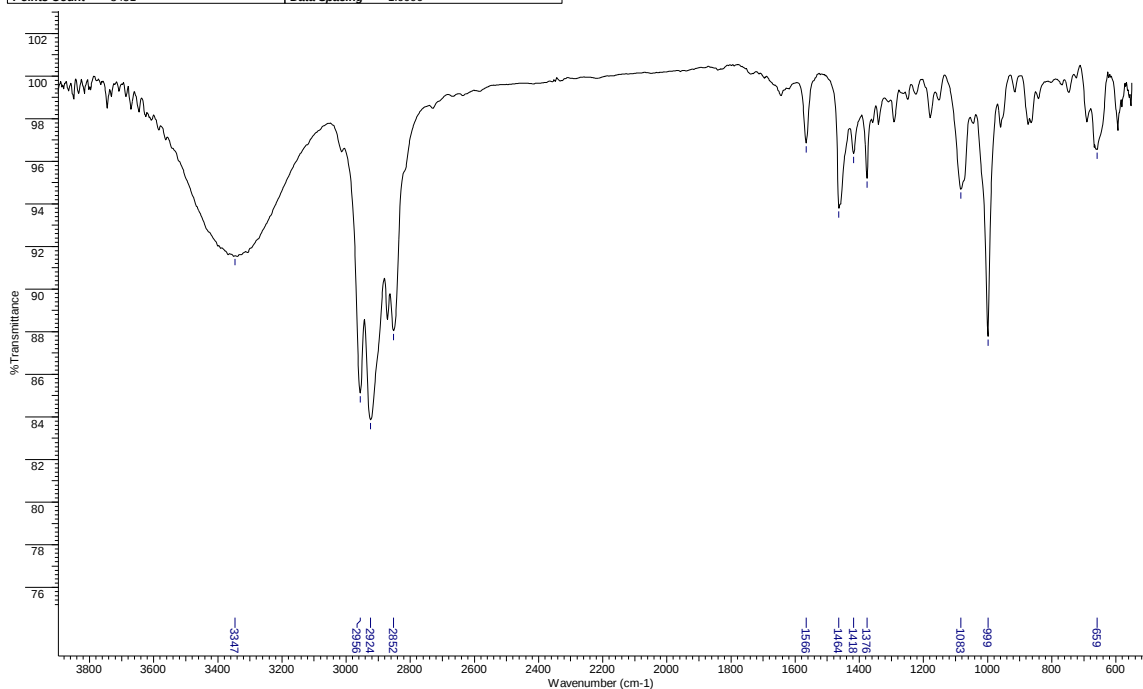


Figure S226: IR spectrum of compound **80**.

Copies of ^1H and ^{13}C NMR, IR, HRMS, UV-Vis, and Circular Dichroism spectra for marinisporolide C:

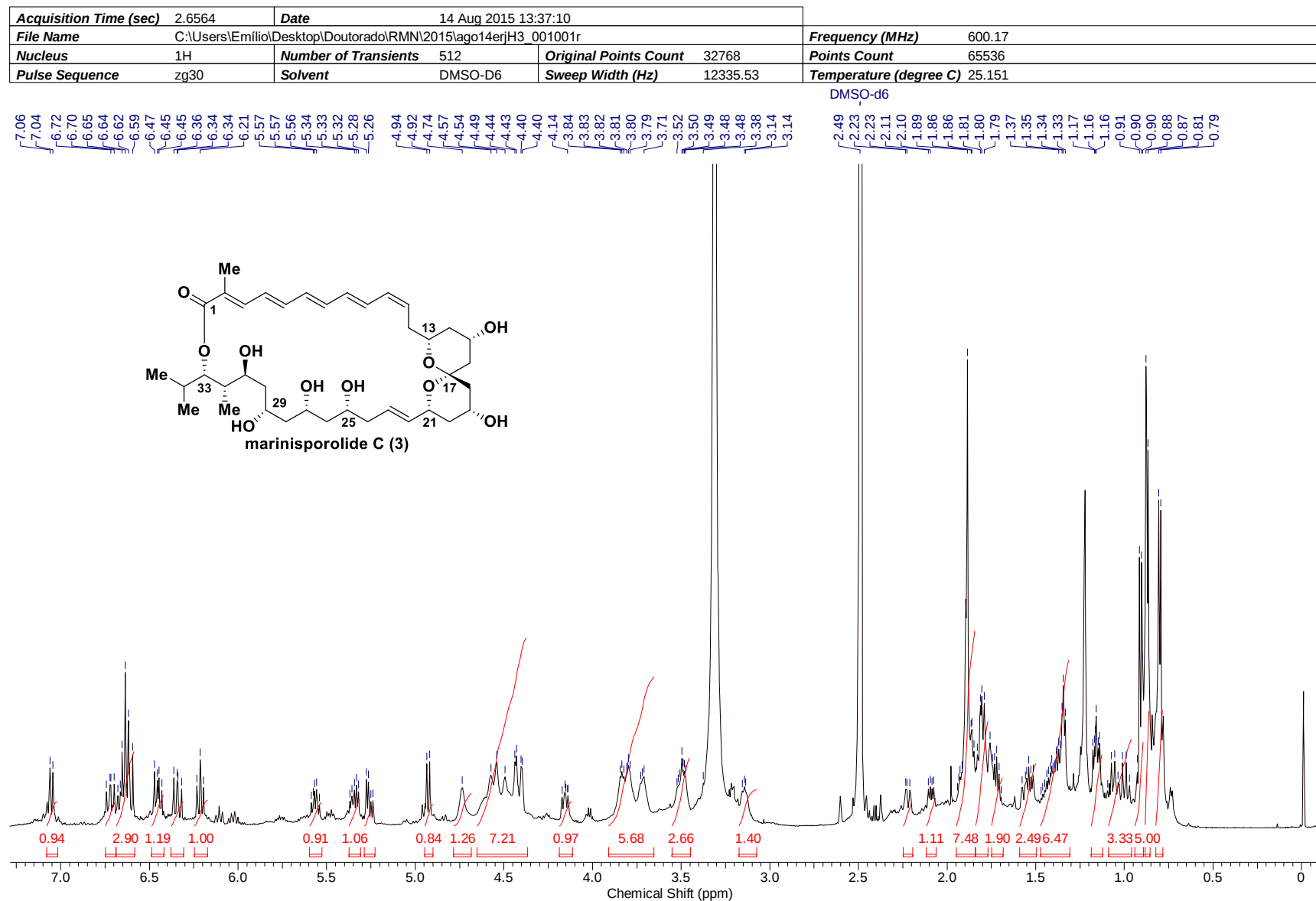


Figure S227: ^1H NMR spectrum of marinisporolide C (3) (600 MHz, DMSO- d_6).

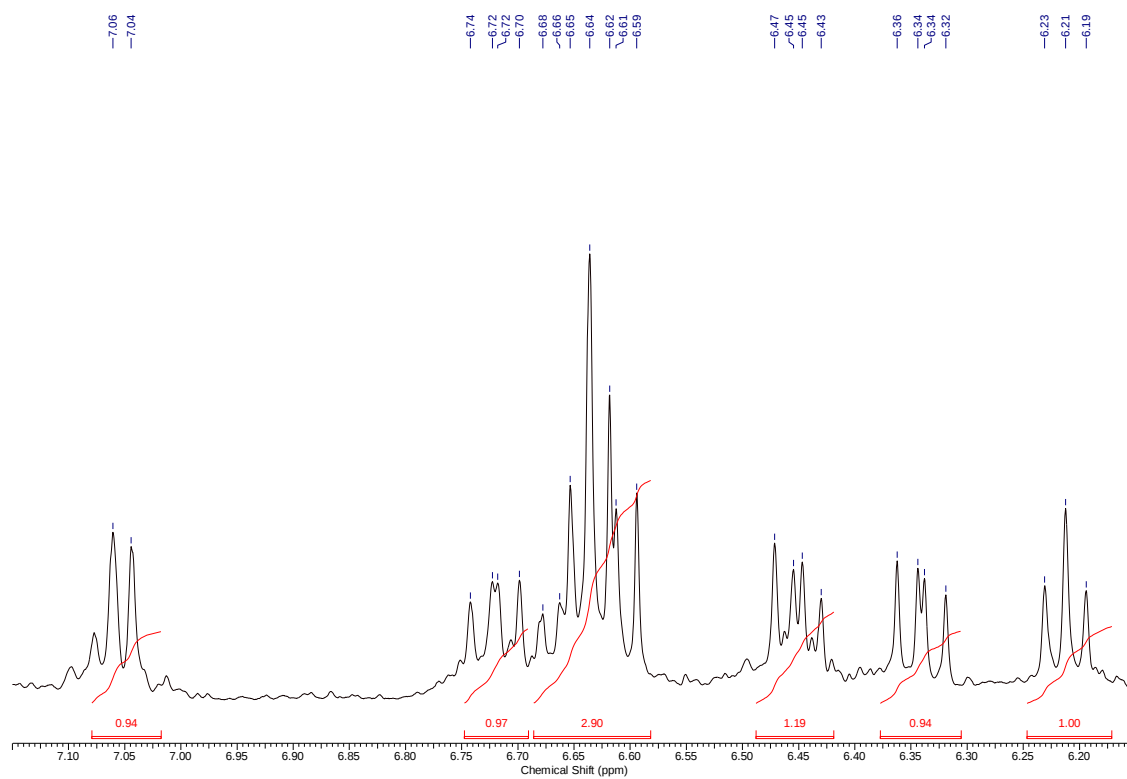


Figure S228: ^1H NMR spectrum of marinisporolide C (**3**): 6.15–7.15 region.

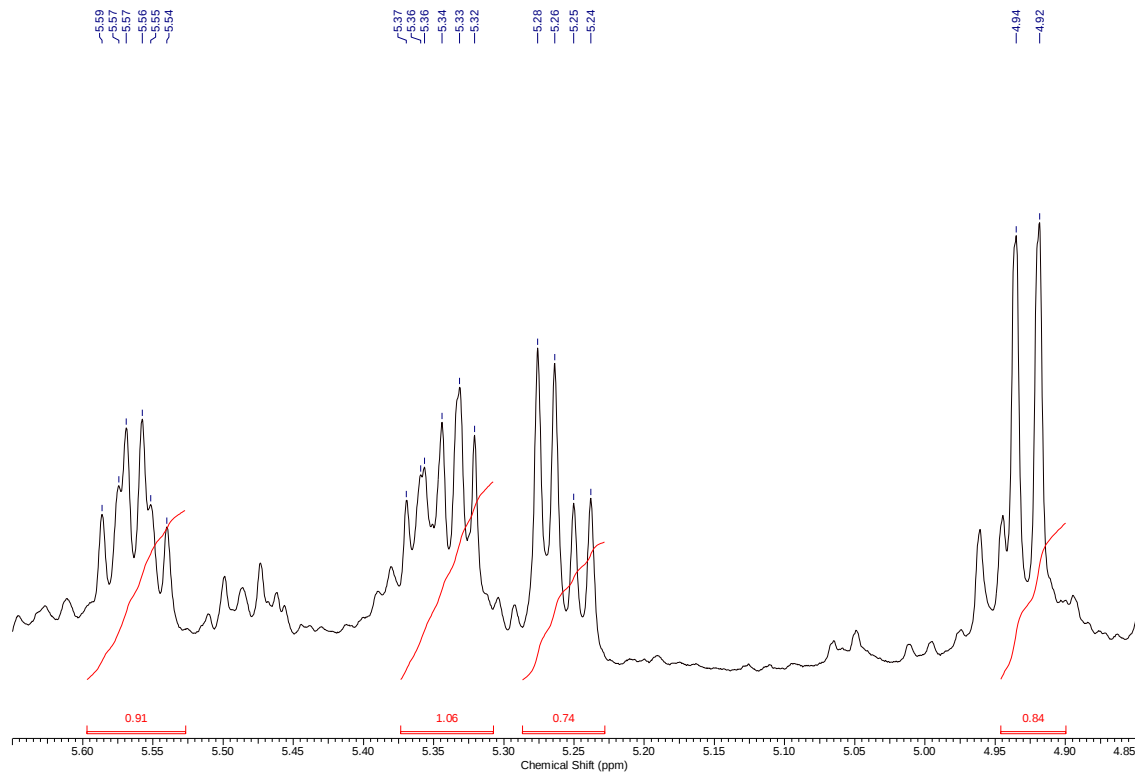


Figure S229: ^1H NMR spectrum of marinisporolide C (**3**): 4.85–5.65 region.

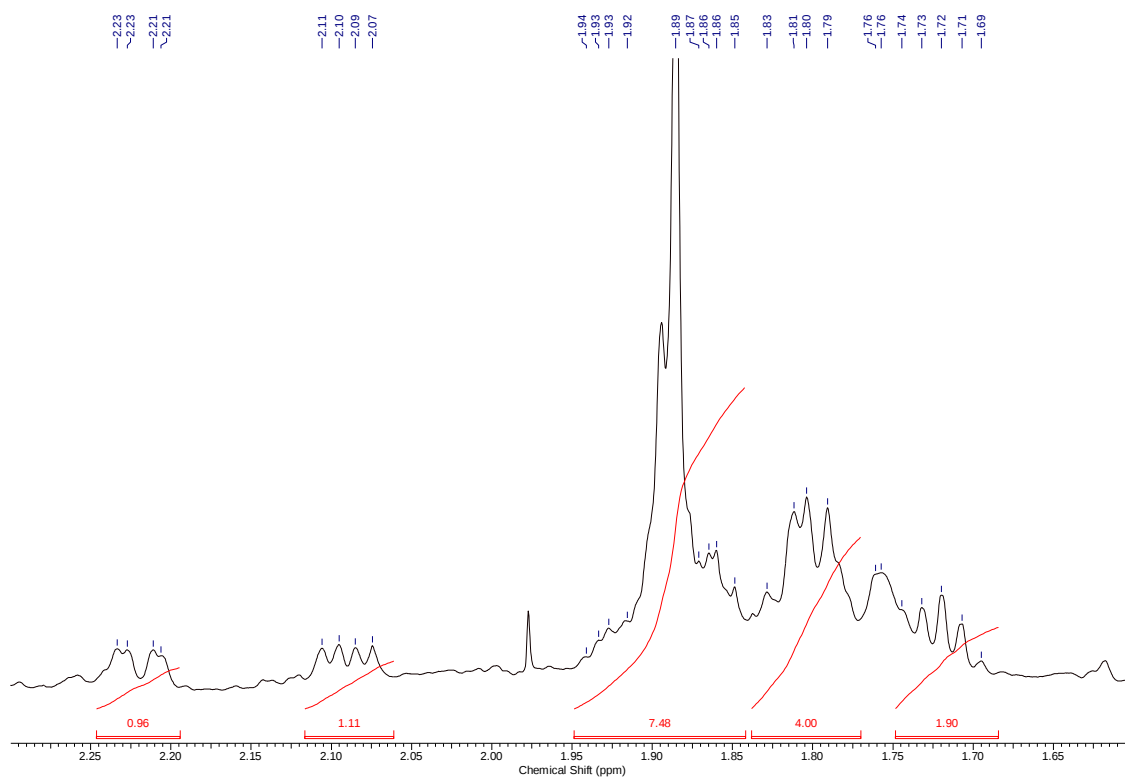


Figure S230: ^1H NMR spectrum of marinisporolide C (**3**): 1.60–2.30 region.

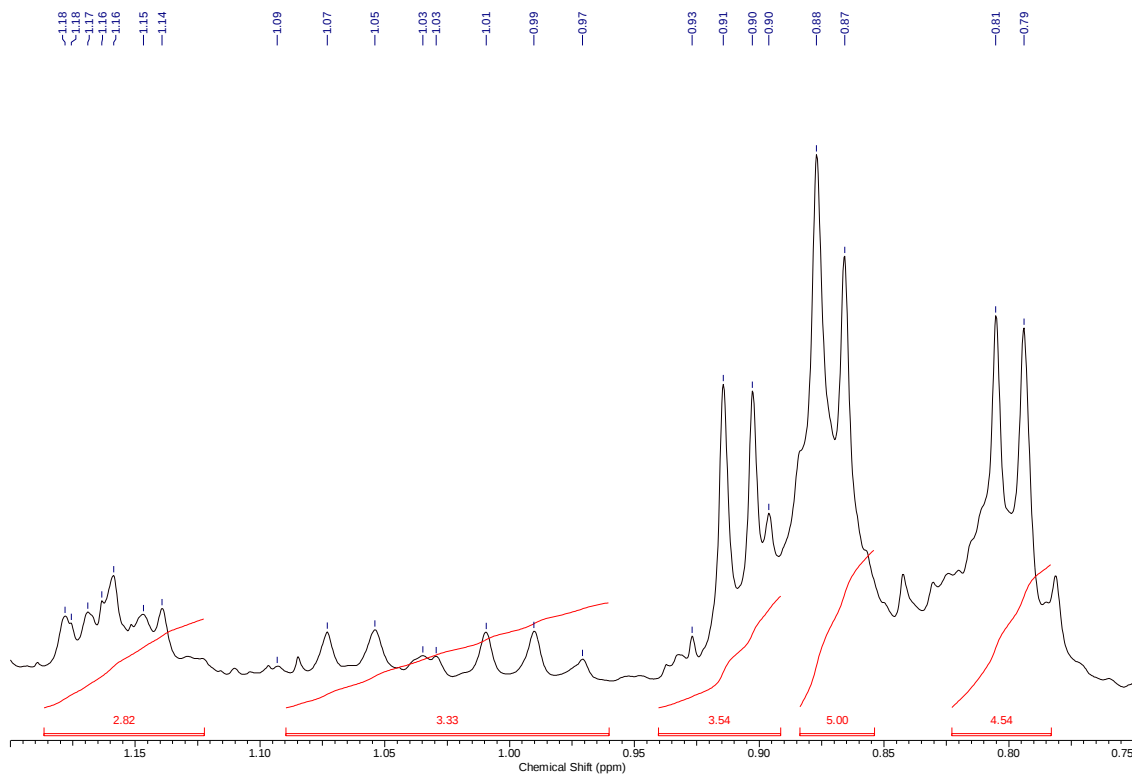


Figure S231: ^1H NMR spectrum of marinisporolide C (**3**): 0.75–1.20 region.

Acquisition Time (sec)	0.4544	Date	17 Aug 2015 06:14:28				
File Name	C:\Users\Emilio\Desktop\Doutorado\RMN\2015\ago14erj\C3_001001r					Frequency (MHz)	150.91
Nucleus	13C	Number of Transients	24461	Original Points Count	16384	Points Count	32768
Pulse Sequence	zgpg30	Solvent	DMSO-D6	Sweep Width (Hz)	36057.69	Temperature (degree C)	22.933

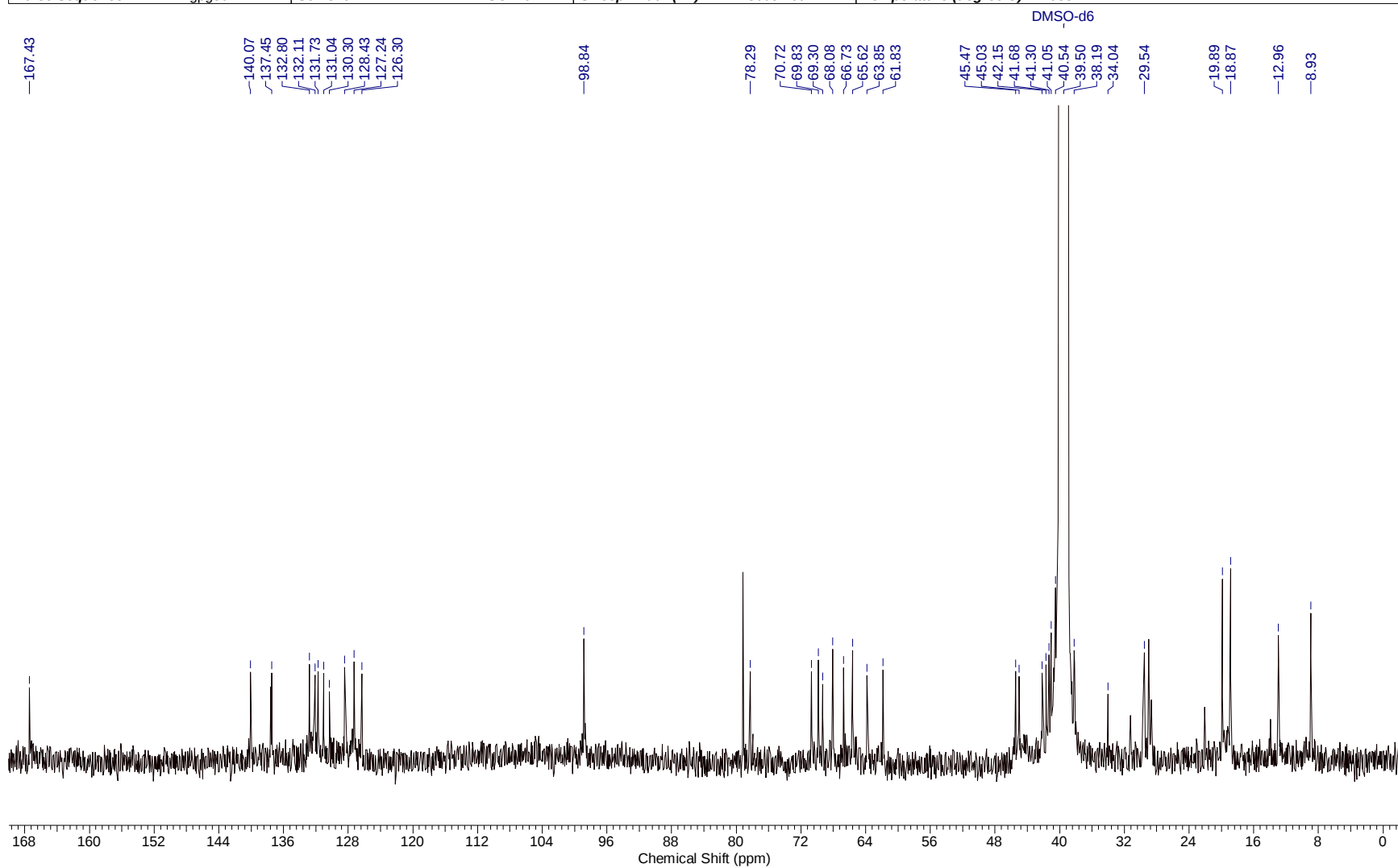


Figure S232: ¹³C NMR spectrum of marinisporolide C (**3**) (150 MHz, DMSO-*d*₆).

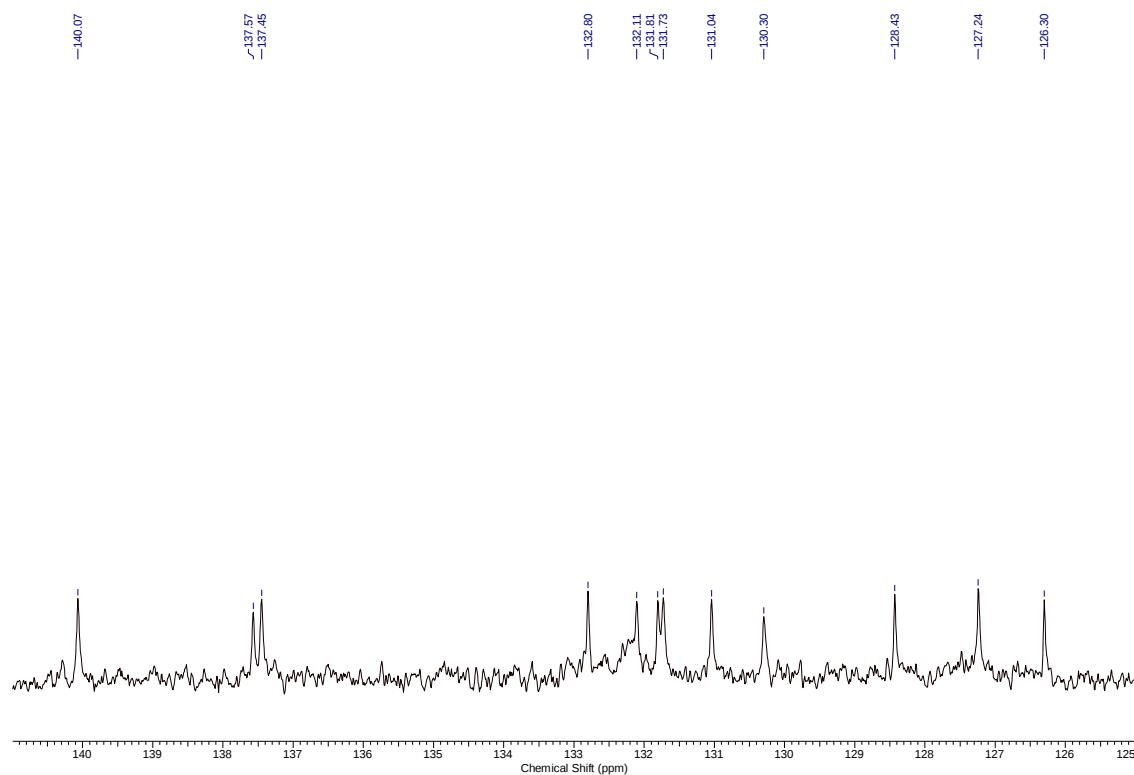


Figure S233: ^{13}C NMR spectrum of marinisporolide C (**3**): 125.0–141.0 region.

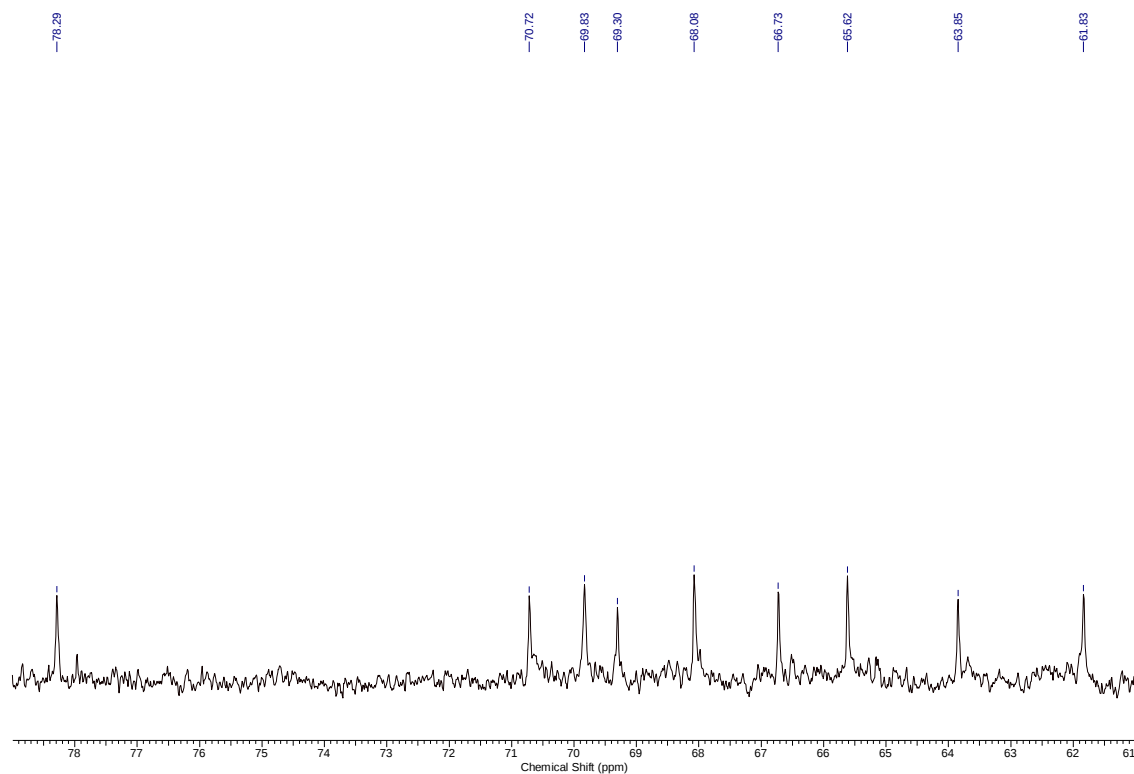
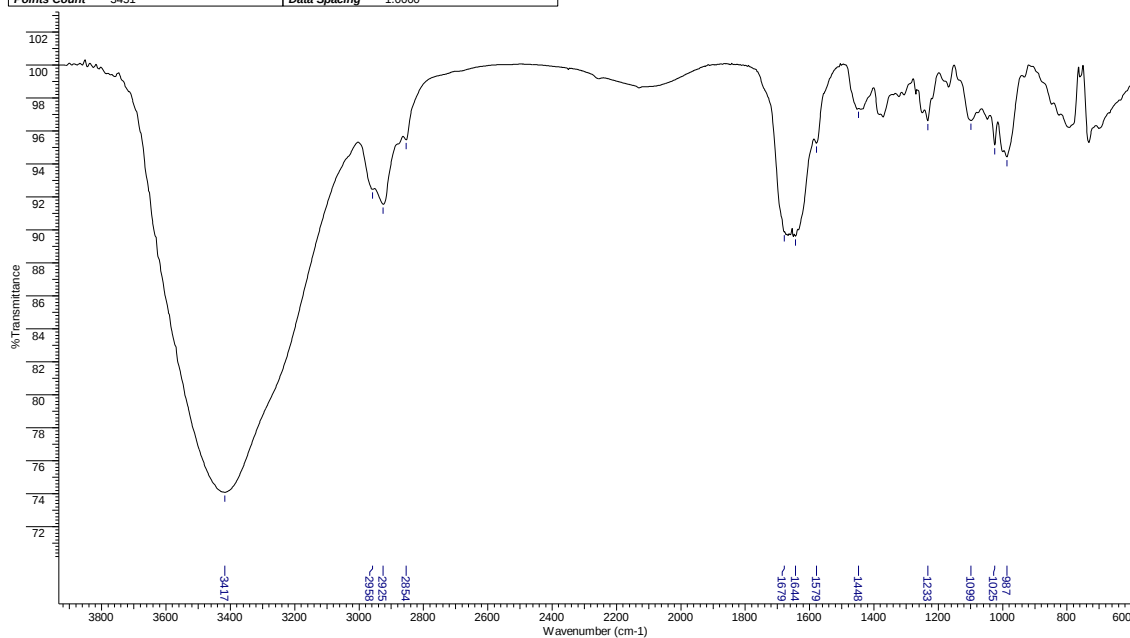


Figure S234: ^{13}C NMR spectrum of marinisporolide C (**3**): 61.0–79.0 region.

Title	cial do Brasil (GMT-3:00)	Comment	Amostra 005 por LQOS data sexta-feira, outubro 02 2015	Origin	cial do Brasil (GMT-3:00)
File Name	C:\USERS\EMILIO\DESKTOP\DOCTORADO\IVEJR508PC1_1.SP	Date Stamp	fri oct 02 17:07:03 2015 Hora oficial do Brasil (GMT-3:00)		
Date	fri oct 02 17:07:43 2015 Hora oficial do Brasil (GMT-3:00)	Technique	Infrared	Instrument	Spectrum Two
Spectral Region	IR	X Axis	Wavenumber (cm-1)	Y Axis	%Transmittance
Points Count	3451	Data Spacing	1.0000		Spectrum Range 550.0000 - 4000.0000



EJR-508PC #1 RT: 0.01 AV: 1 NL: 3.37E5

T: FTMS + p ESI Full ms[500.00-1000.00]

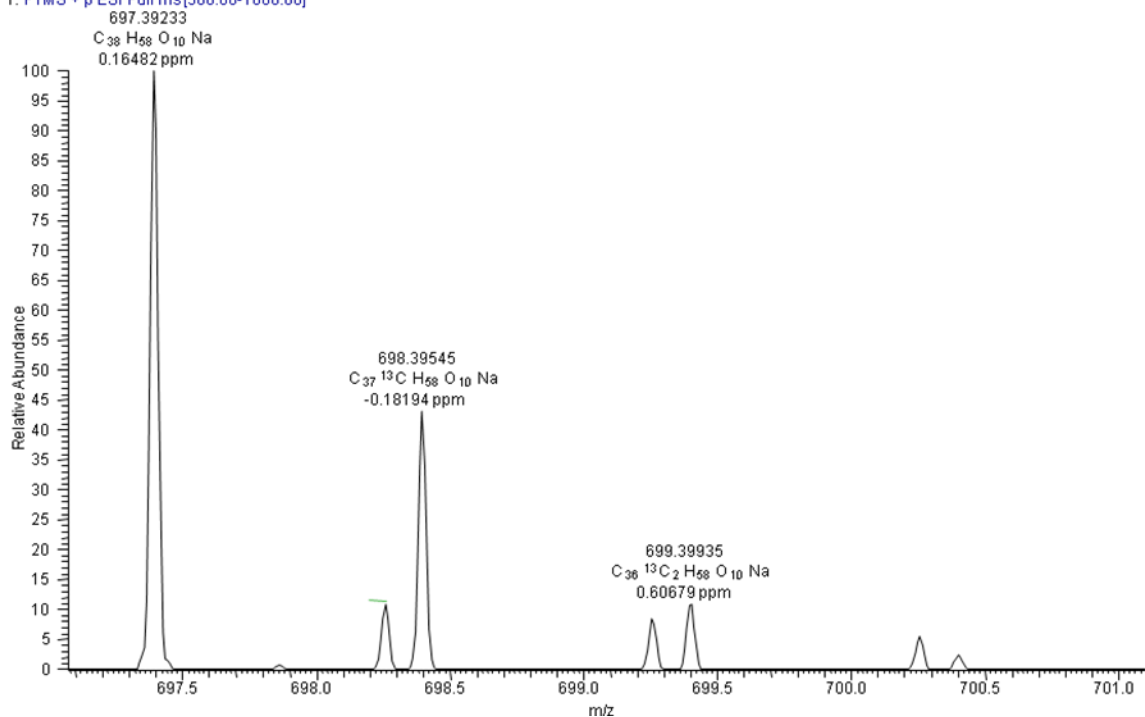


Figure S235: IR and HRMS (ESI FTMS) spectra of marinisporolide C (**3**).

Emilio - EJ9 508 PC - DMSO - Avance 400 MHz - agol7ejrH1 - COSY

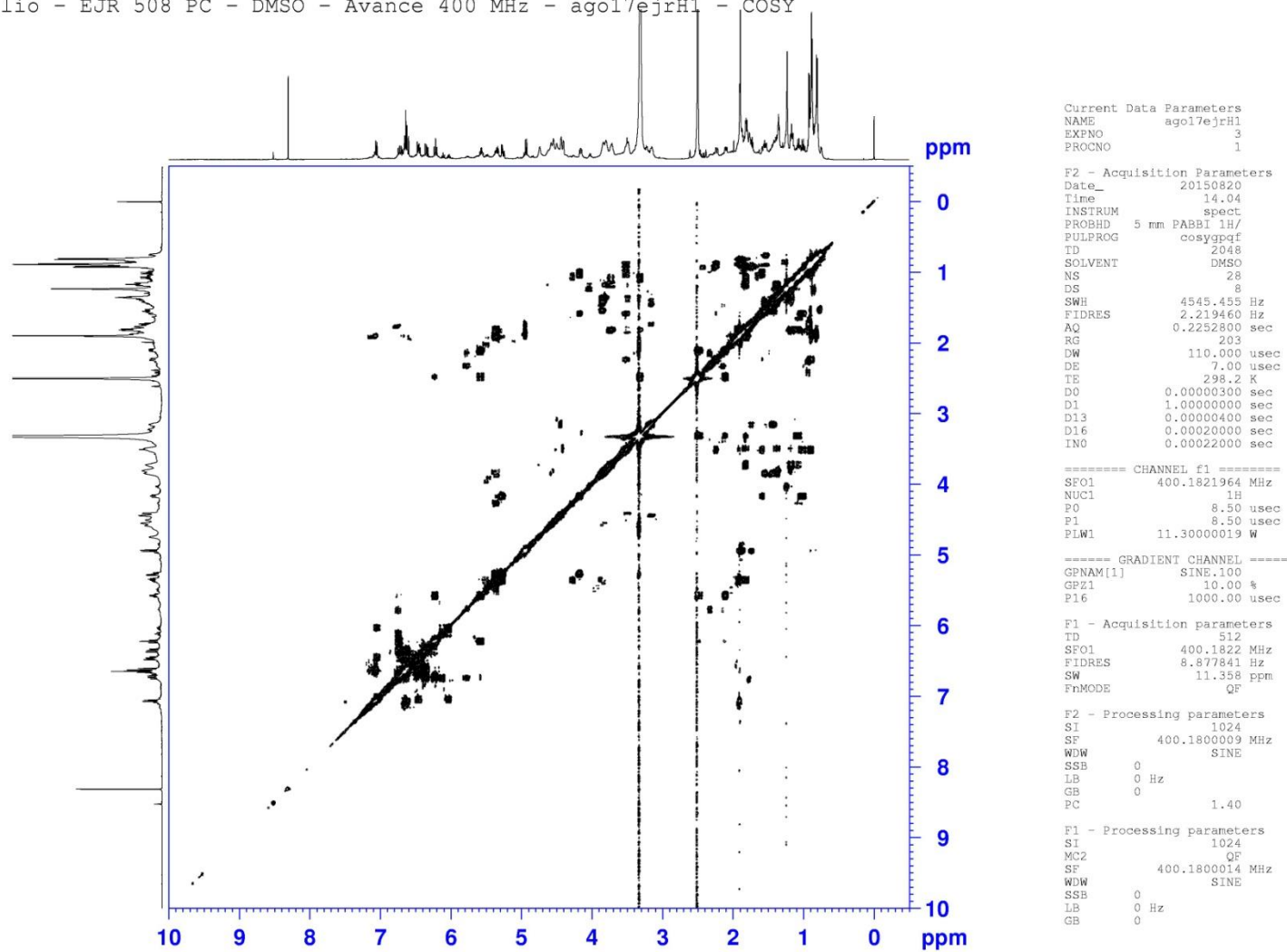


Figure S236: COSY contour map of marinisporolide C (**3**) (400 MHz, DMSO-*d*₆).

Emilio - EJ9 508 PC - DMSO - Avance 400 MHz - agol7ejrH1 - HSQC

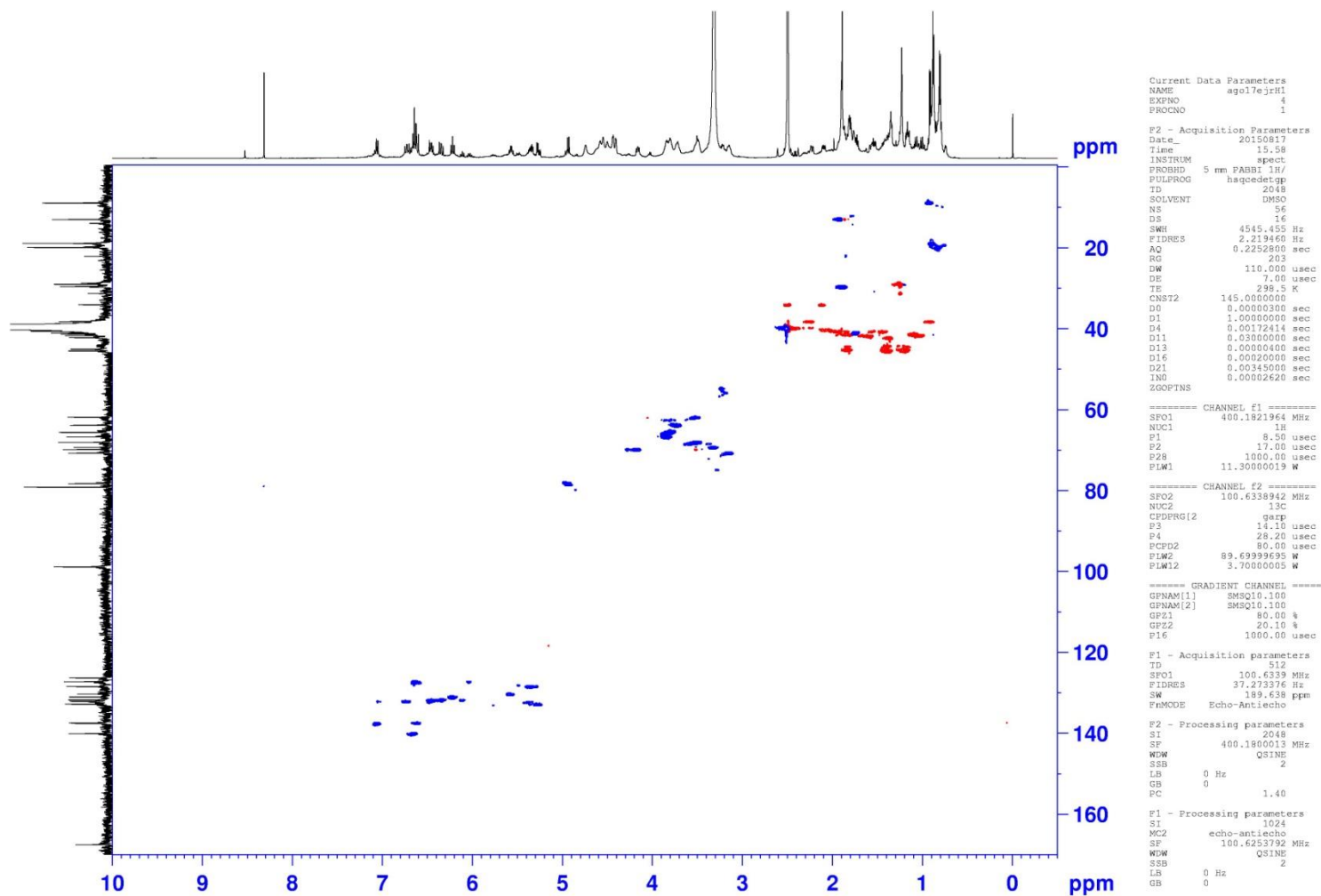


Figure S237: HSQC contour map of marinisporolide C (**3**) (400 MHz, DMSO-*d*₆).

Emilio - EJ9 508 PC - DMSO - Avance 400 MHz - agol7ejrH1 - HMBC

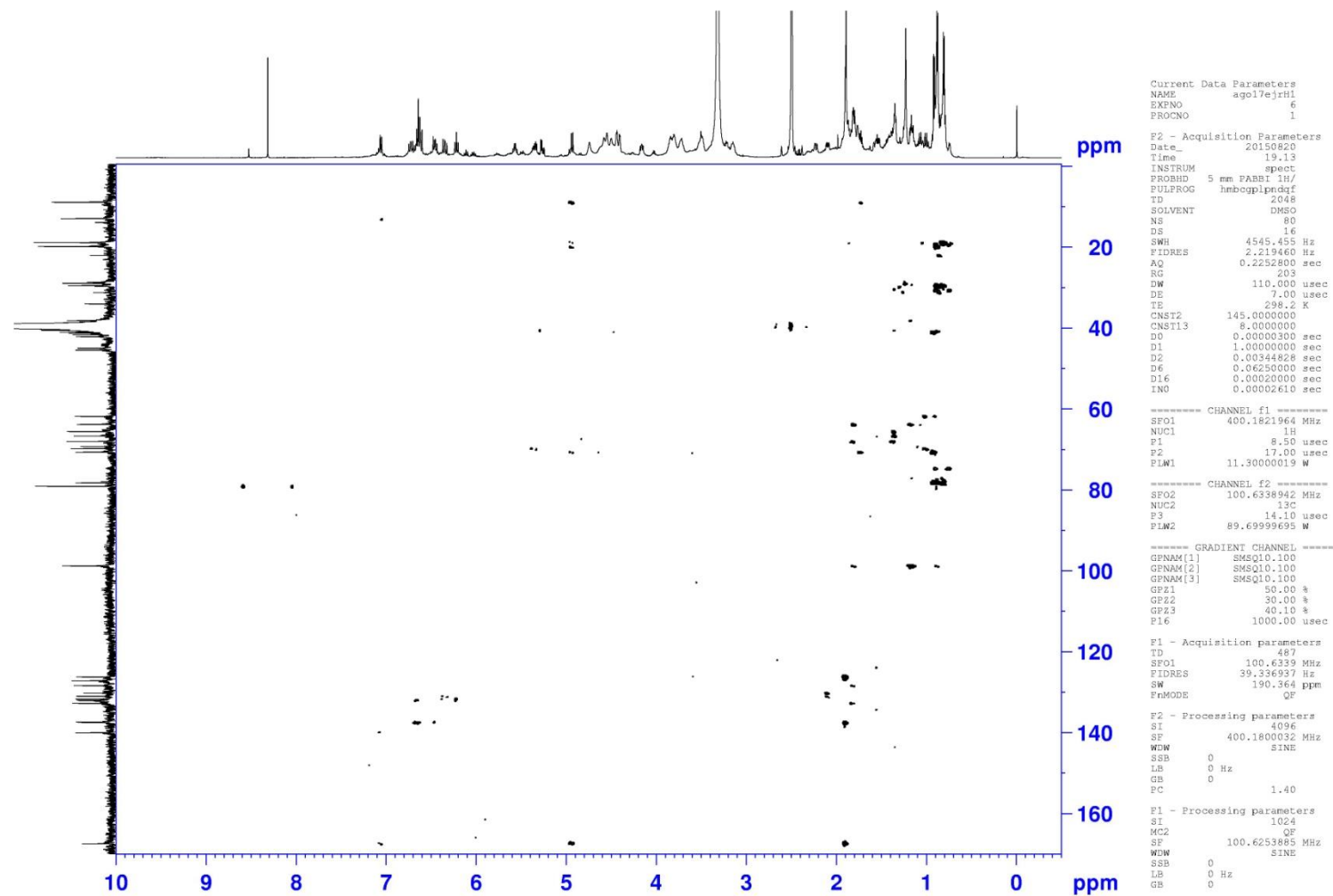


Figure S238: HMBC contour map of marinisporolide C (**3**) (400 MHz, DMSO-*d*₆).

Emilio - EJR 508 PC - DMSO - Avance 400 MHz - agol7ejrH1 - NOESY

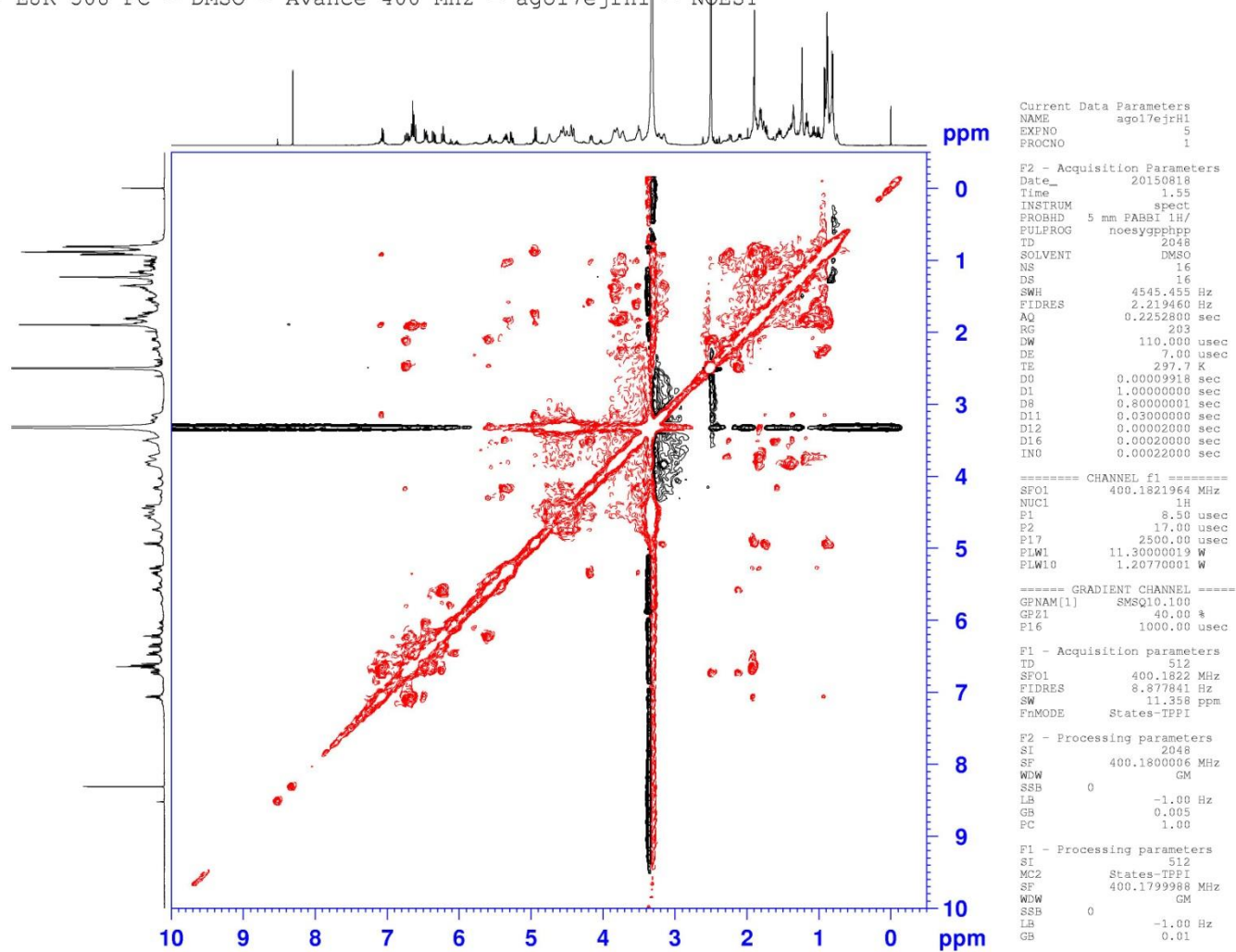


Figure S239: NOESY contour map of marinisporolide C (**3**) (400 MHz, DMSO- d_6).

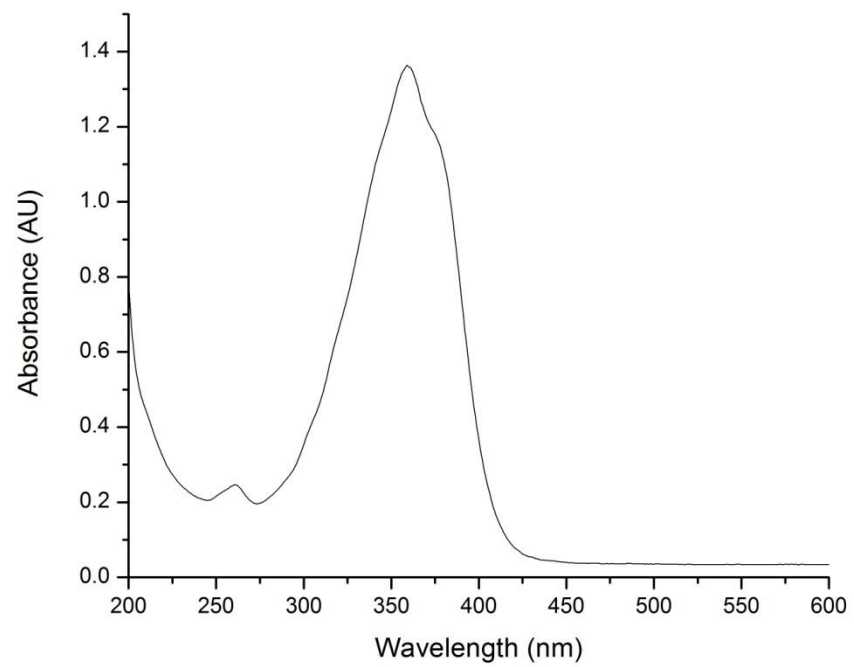


Figure S240: UV-Vis spectrum of marinisporolide C (**3**) (MeOH).

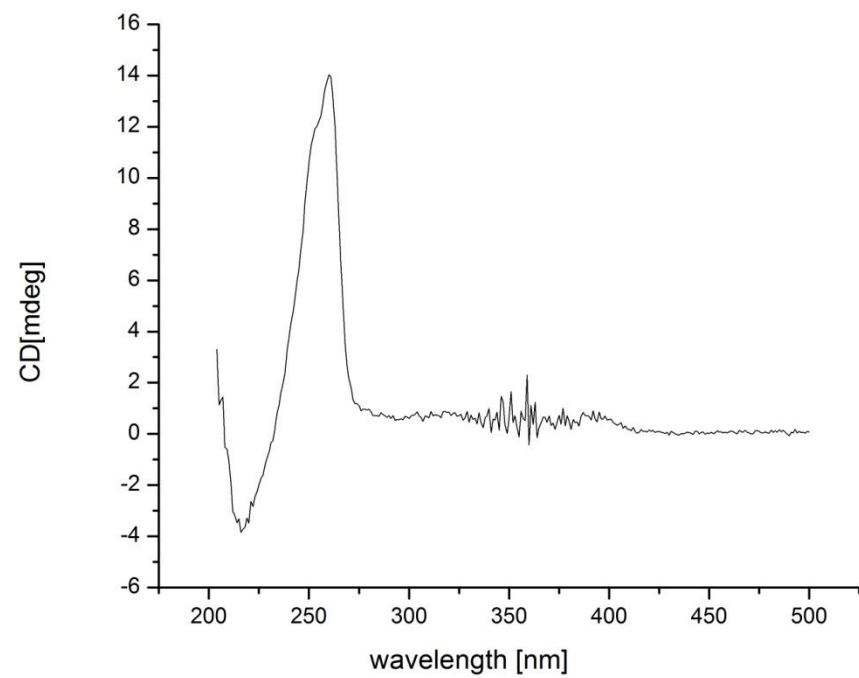


Figure S241: Circular Dichroism spectrum of marinisporolide C (**3**) (MeOH).