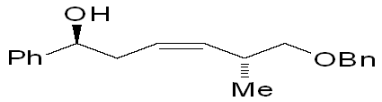
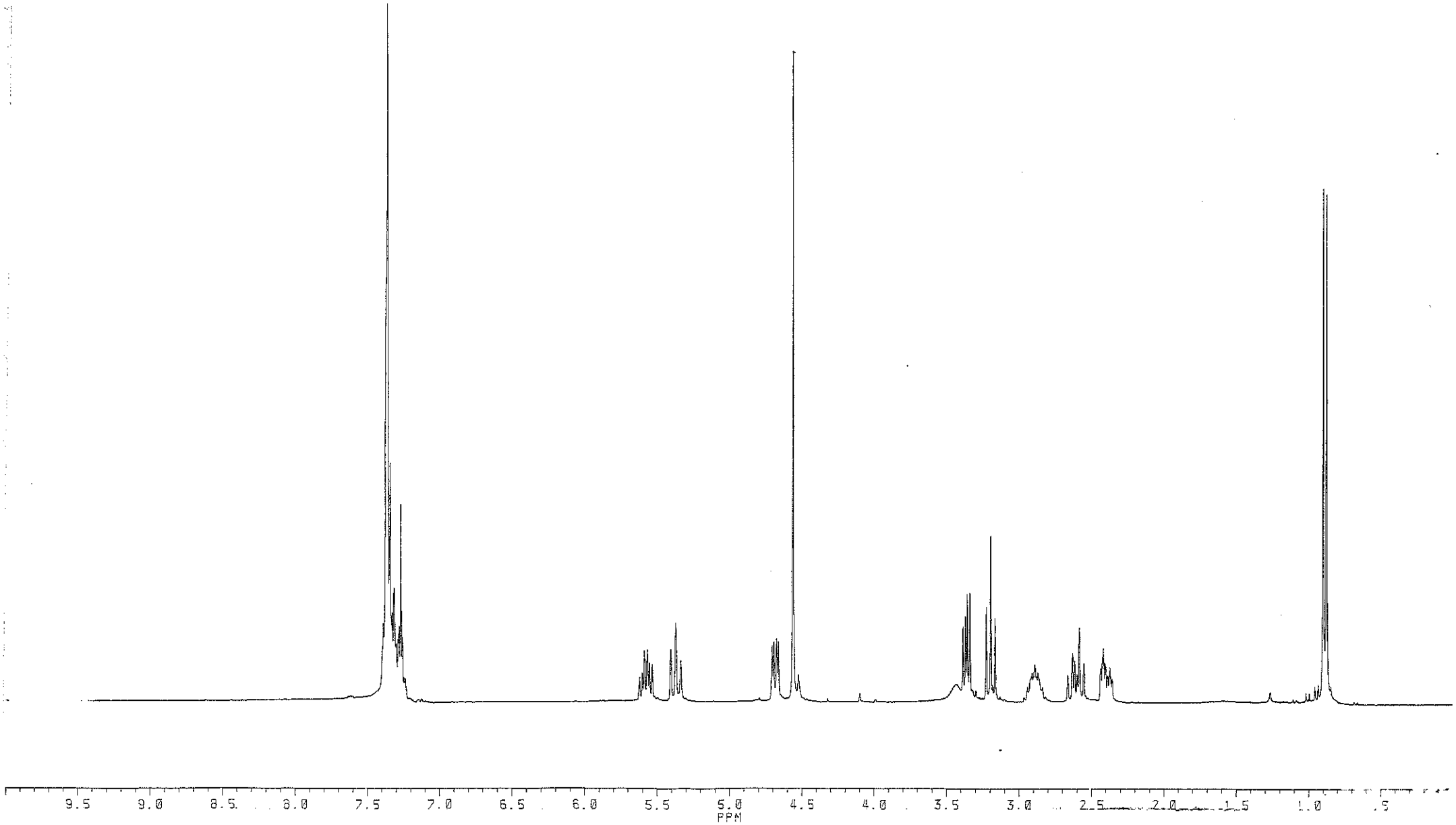
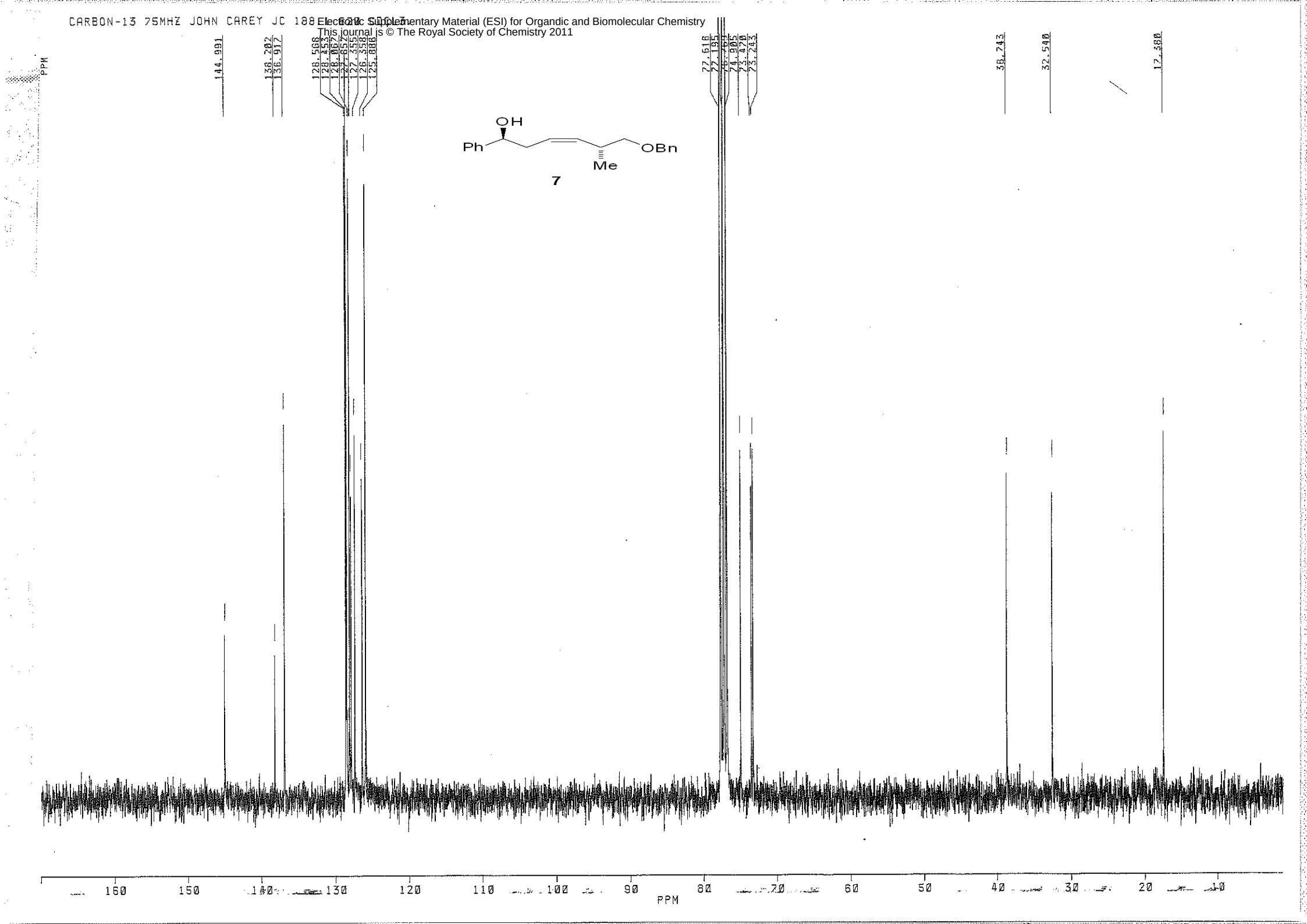


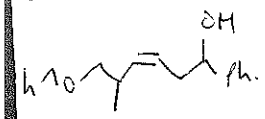
7





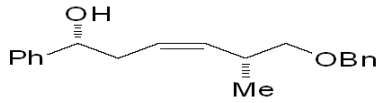
PROTON 300MHZ JOHN CAREY JC 42 [illegible]

8



t. diastereoisomers of HPLC column (5mm)

~~other product~~



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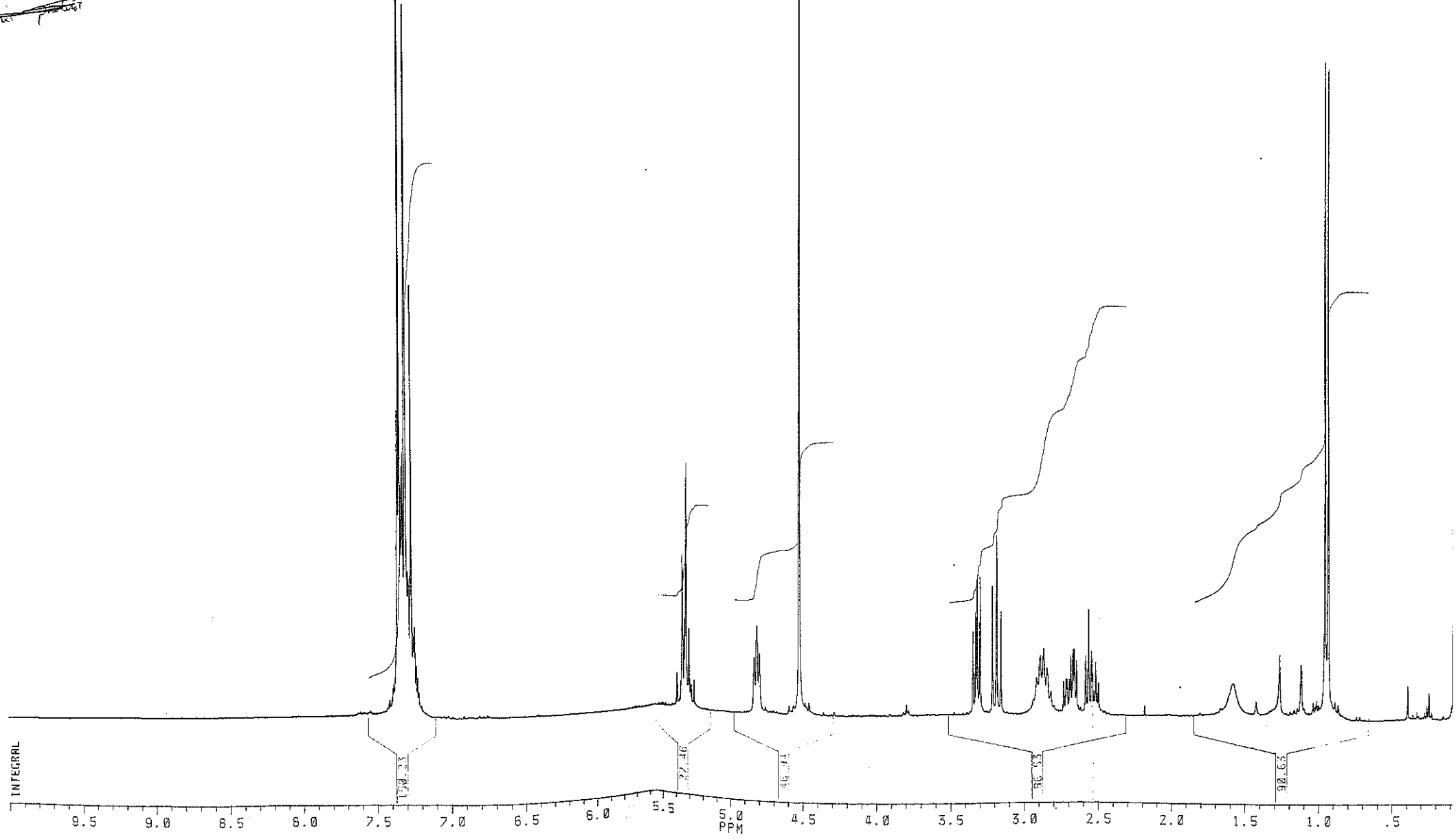
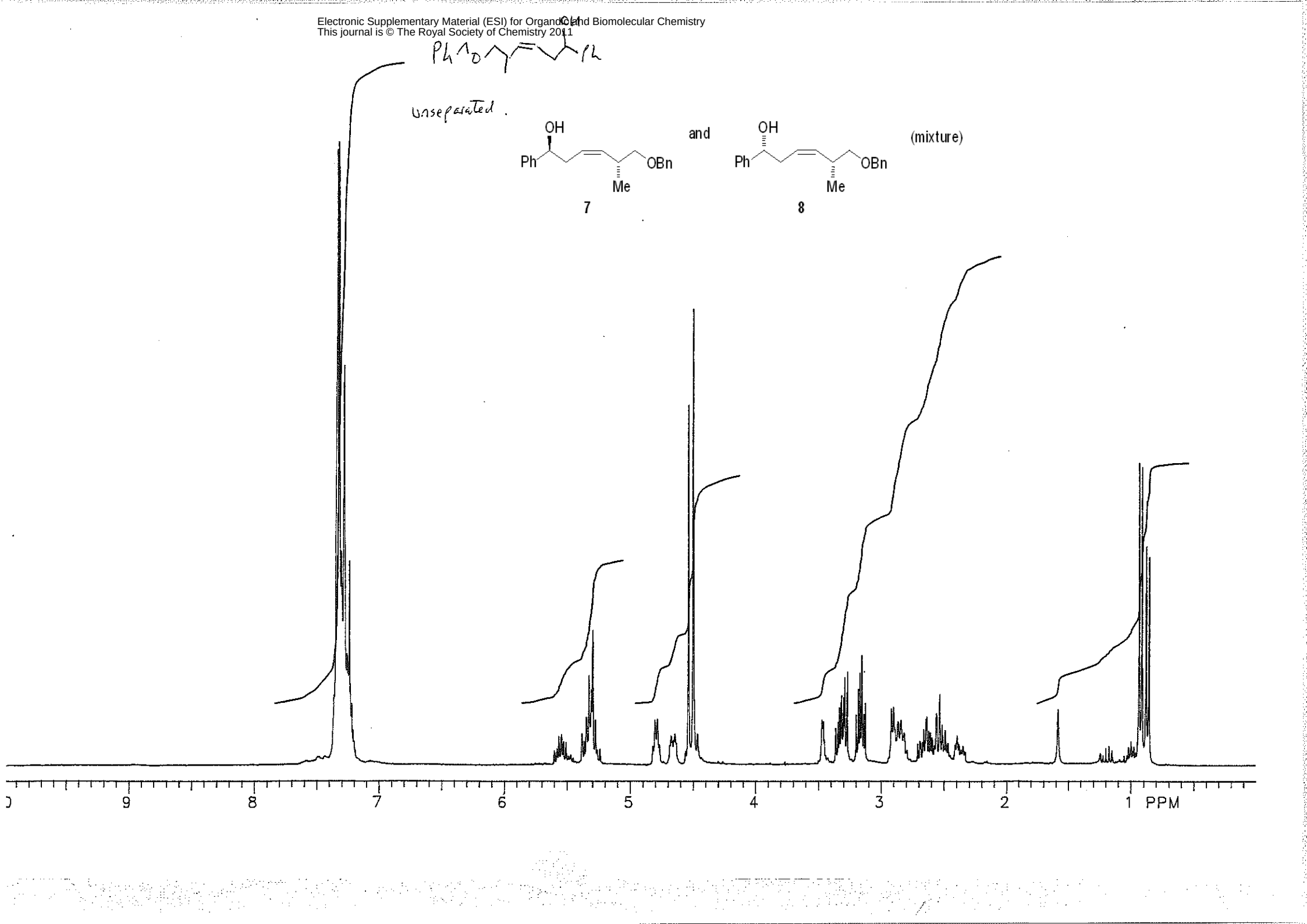
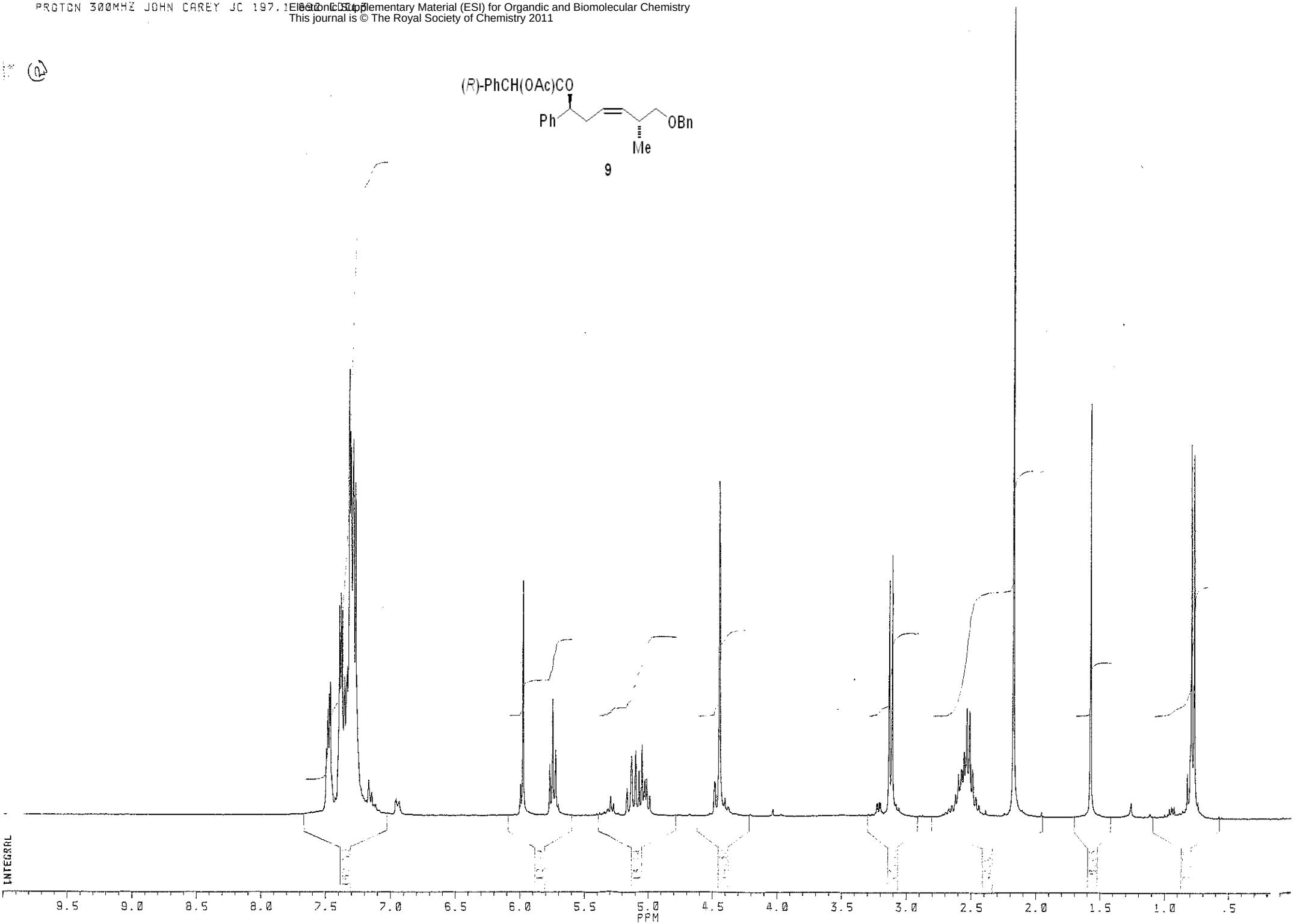




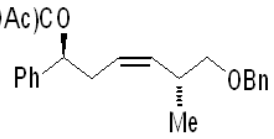
(R)-PhCH(OAc)CO

9



(S)-1

(S)-PhCH(OAc)CO



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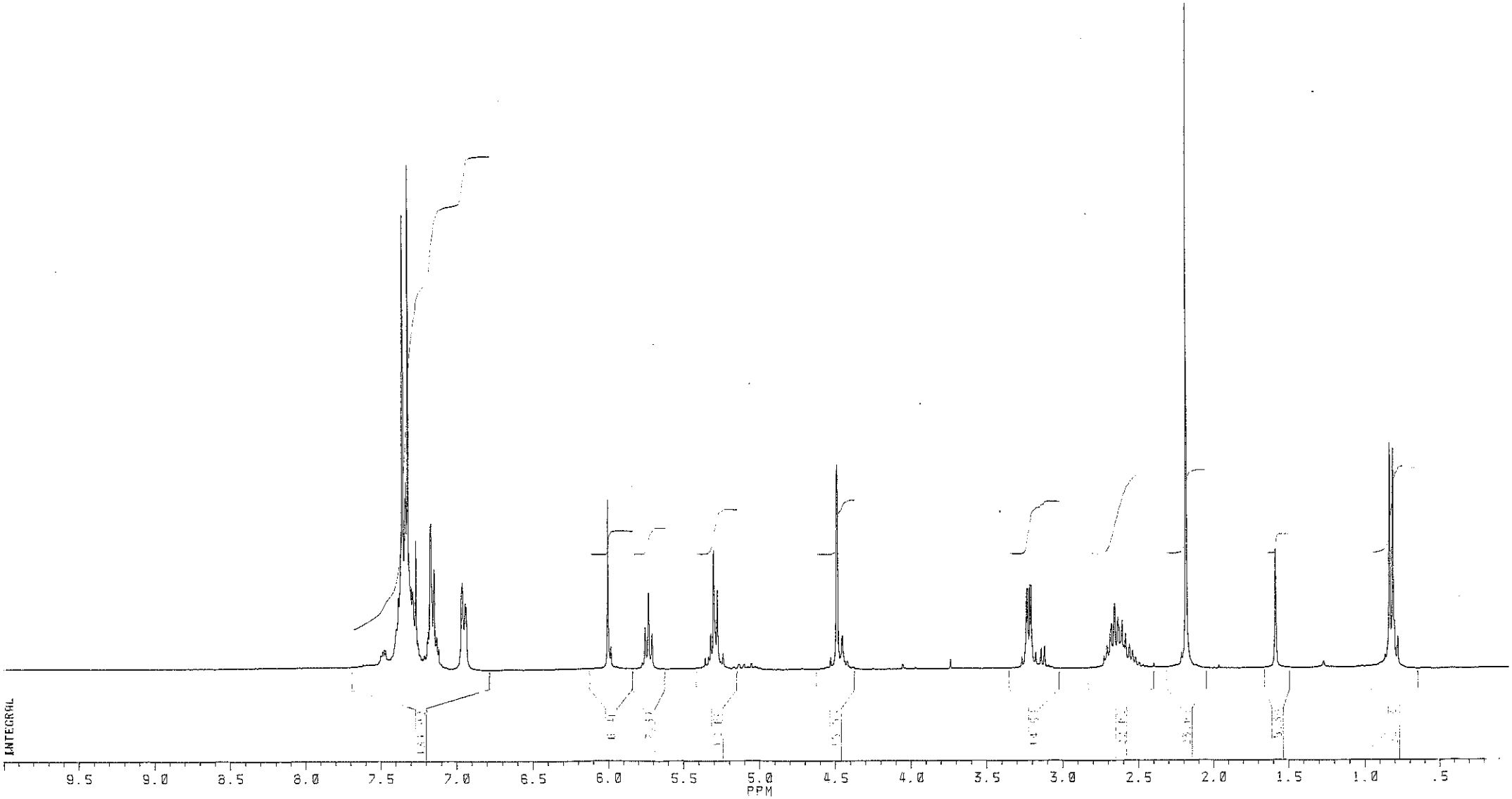

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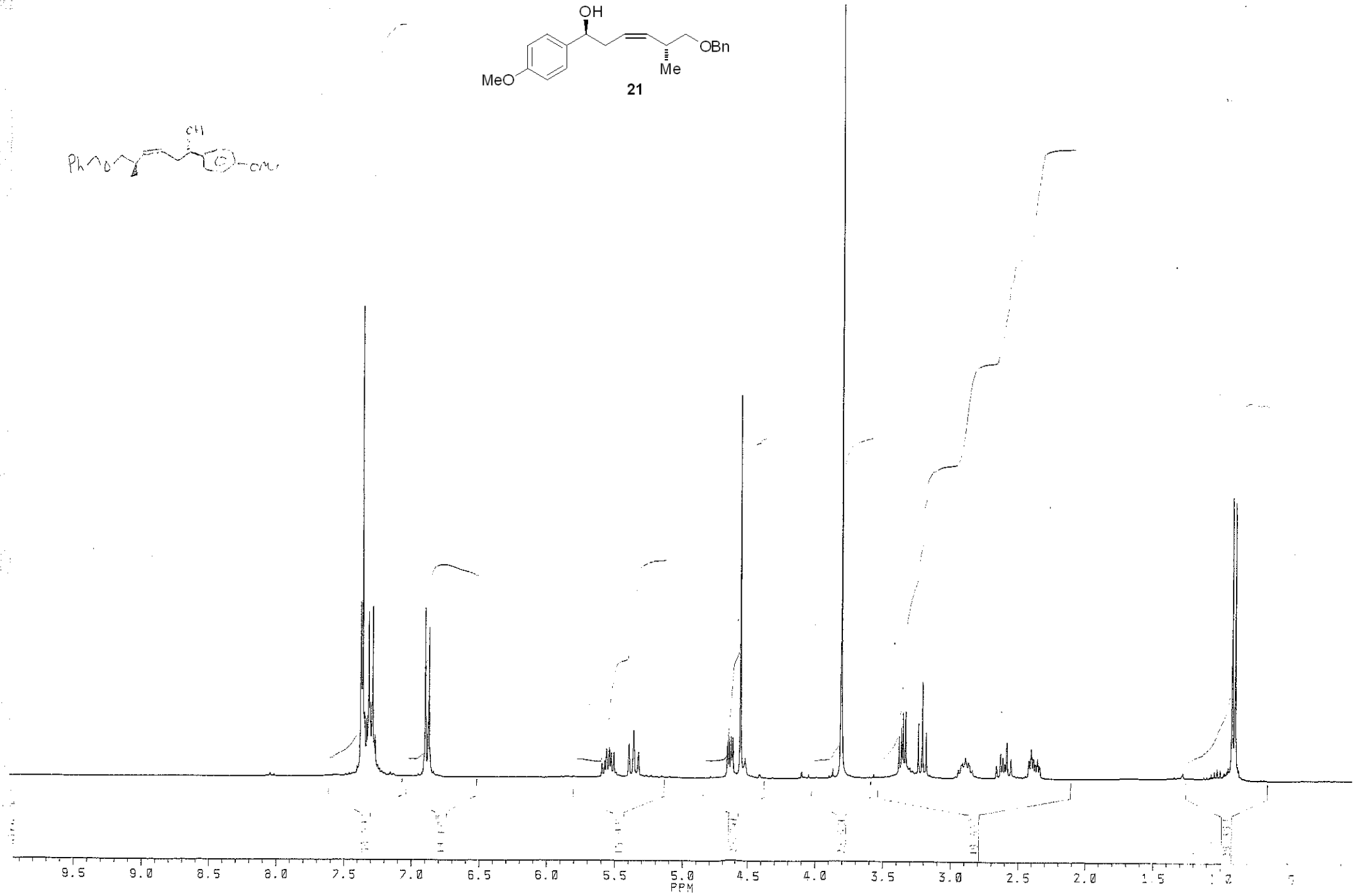
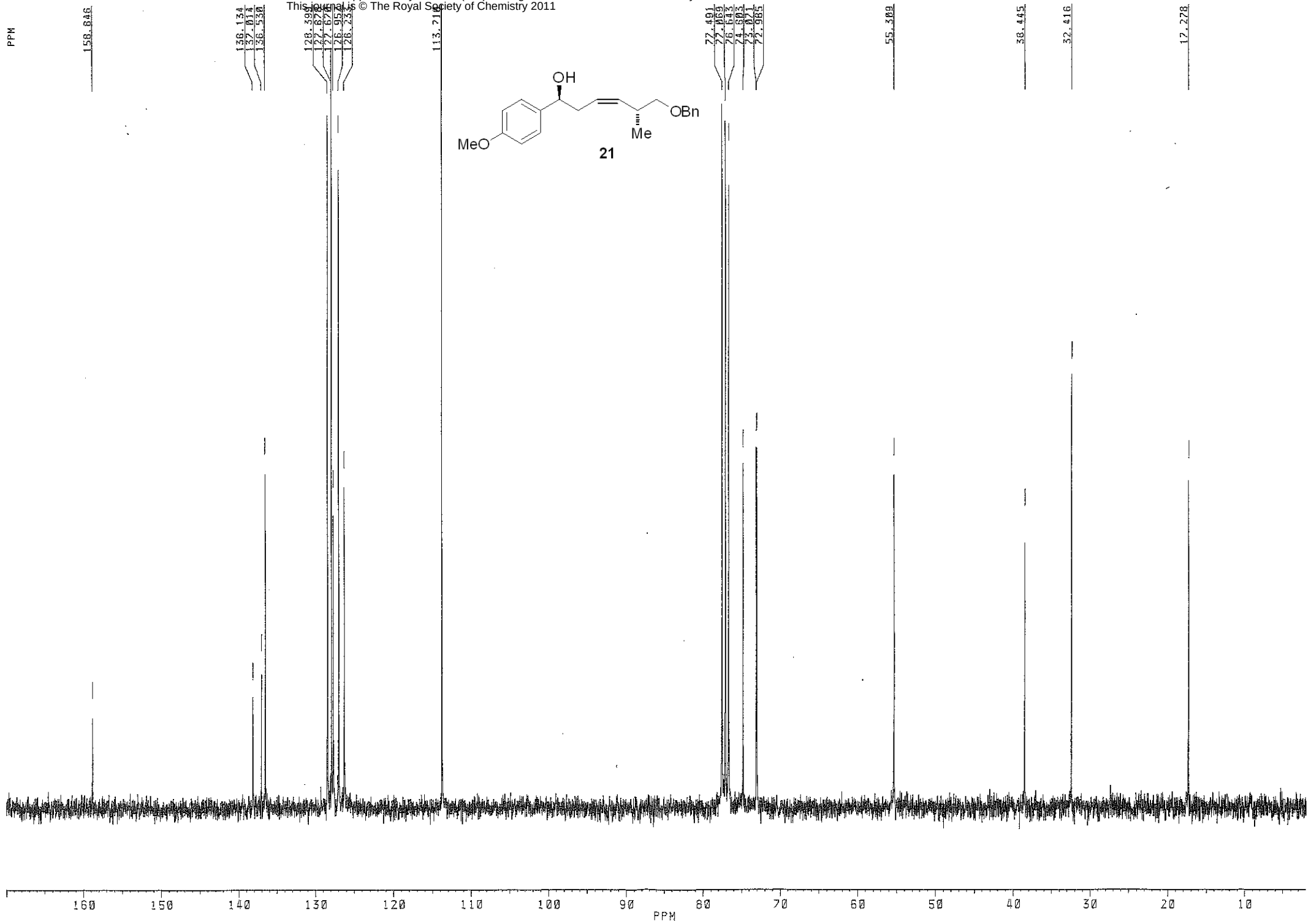
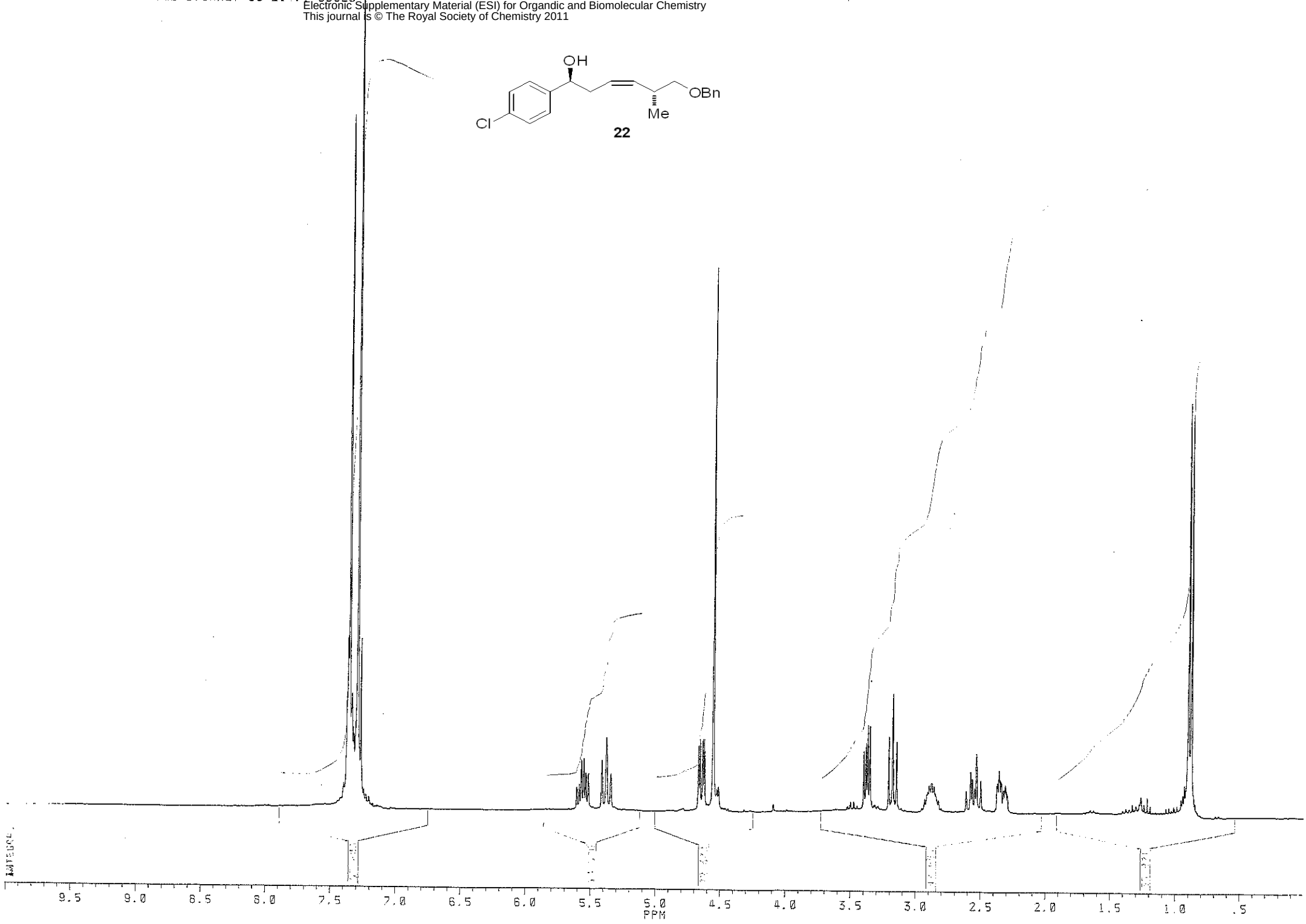
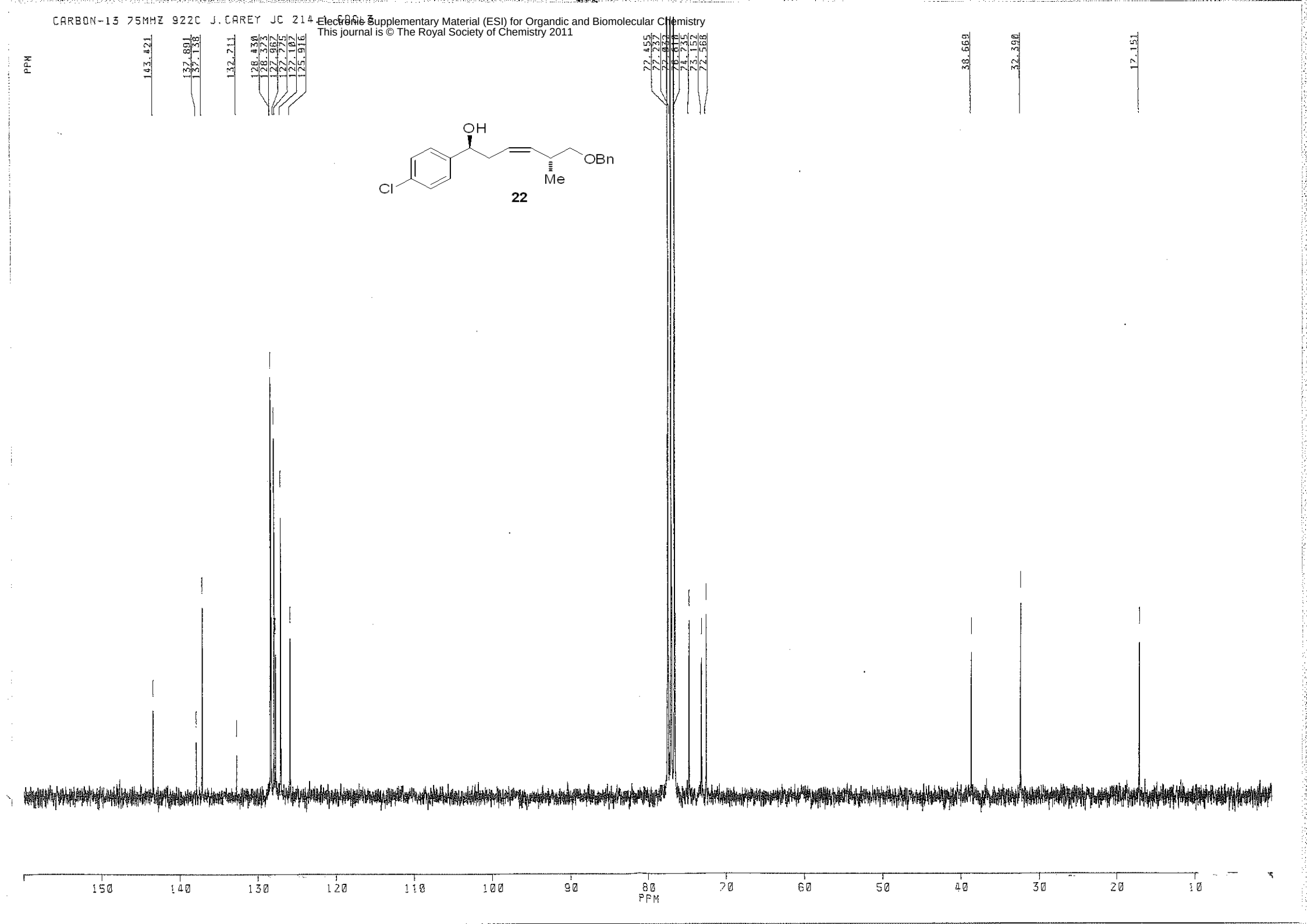




PROTON 300MHZ 922 J.CAREY JC 214.1 CDCL3

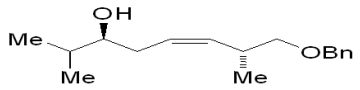
22





Electronic Supplementary Material (ESI) for Organic and Biomolecular Chemistry

23



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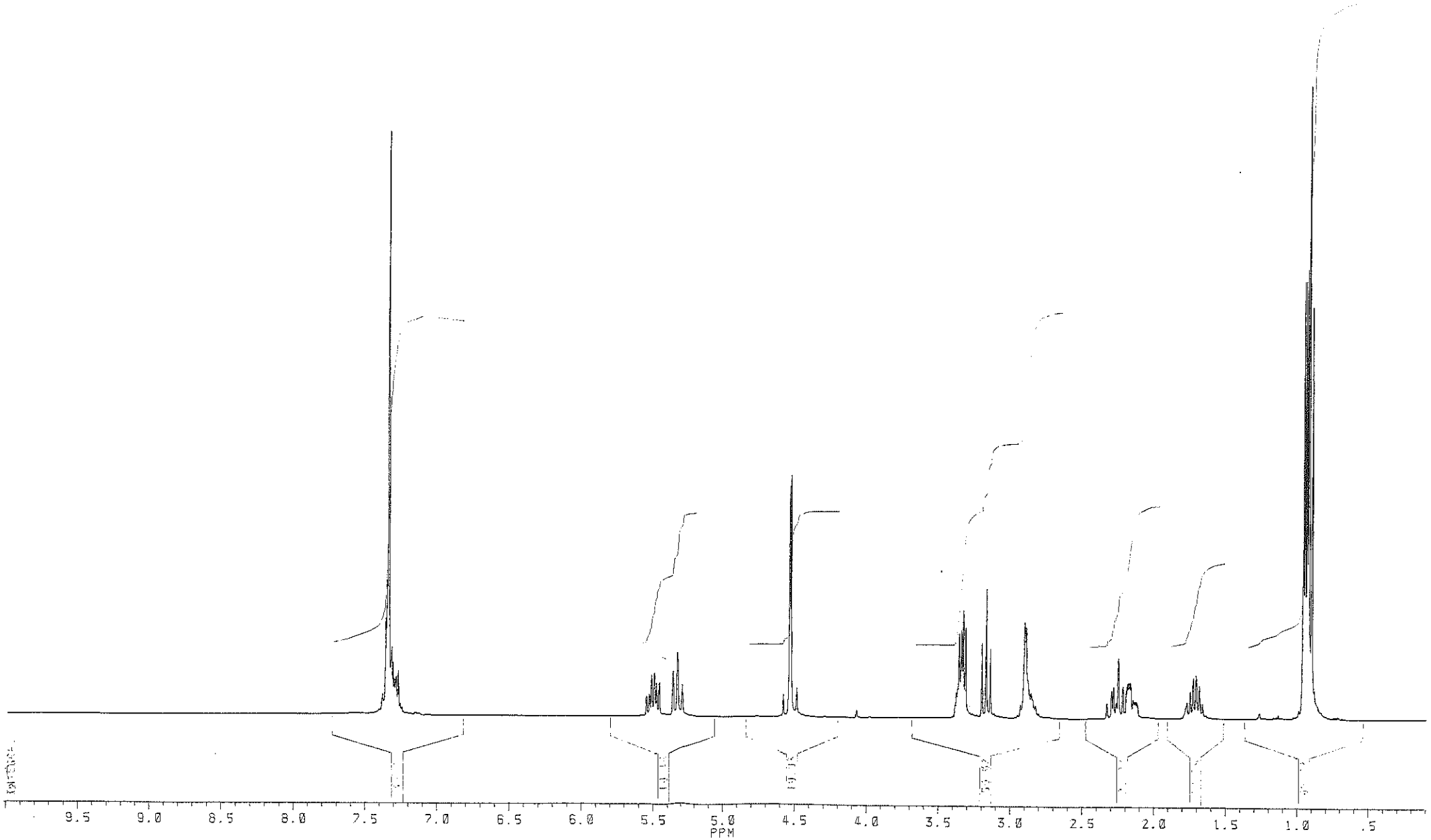
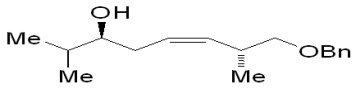


PPM

138.146
136.140
128.352
127.820
127.602
127.088
77.480
77.057
76.635
75.582
74.752
73.014
33.645
32.445
32.314
16.554
12.806
12.328



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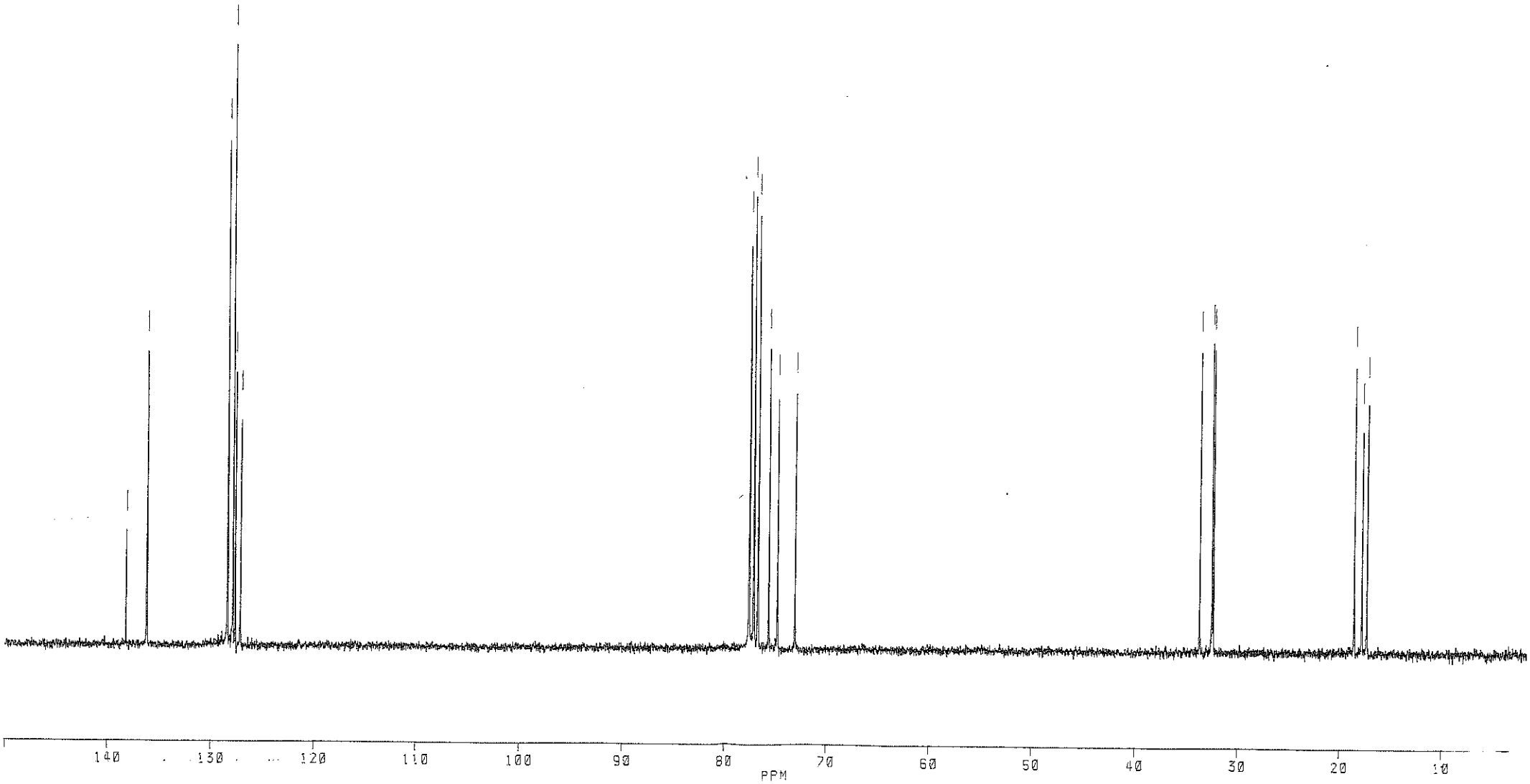
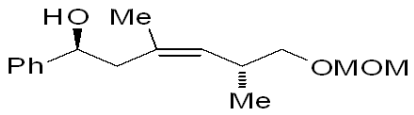


Electronic Supplementary Material (ESI) for Organdic and Biomolecular Chemistry



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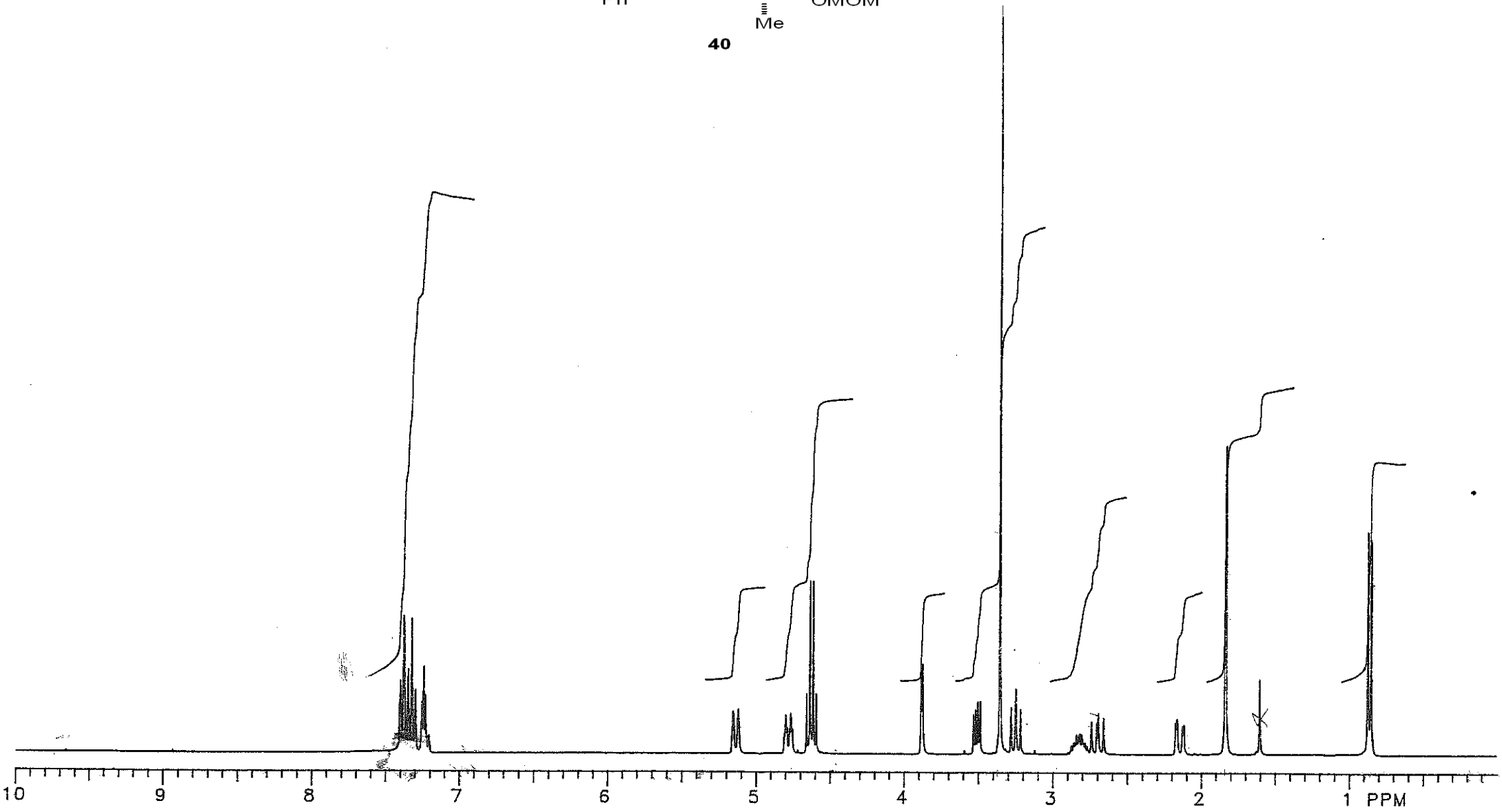

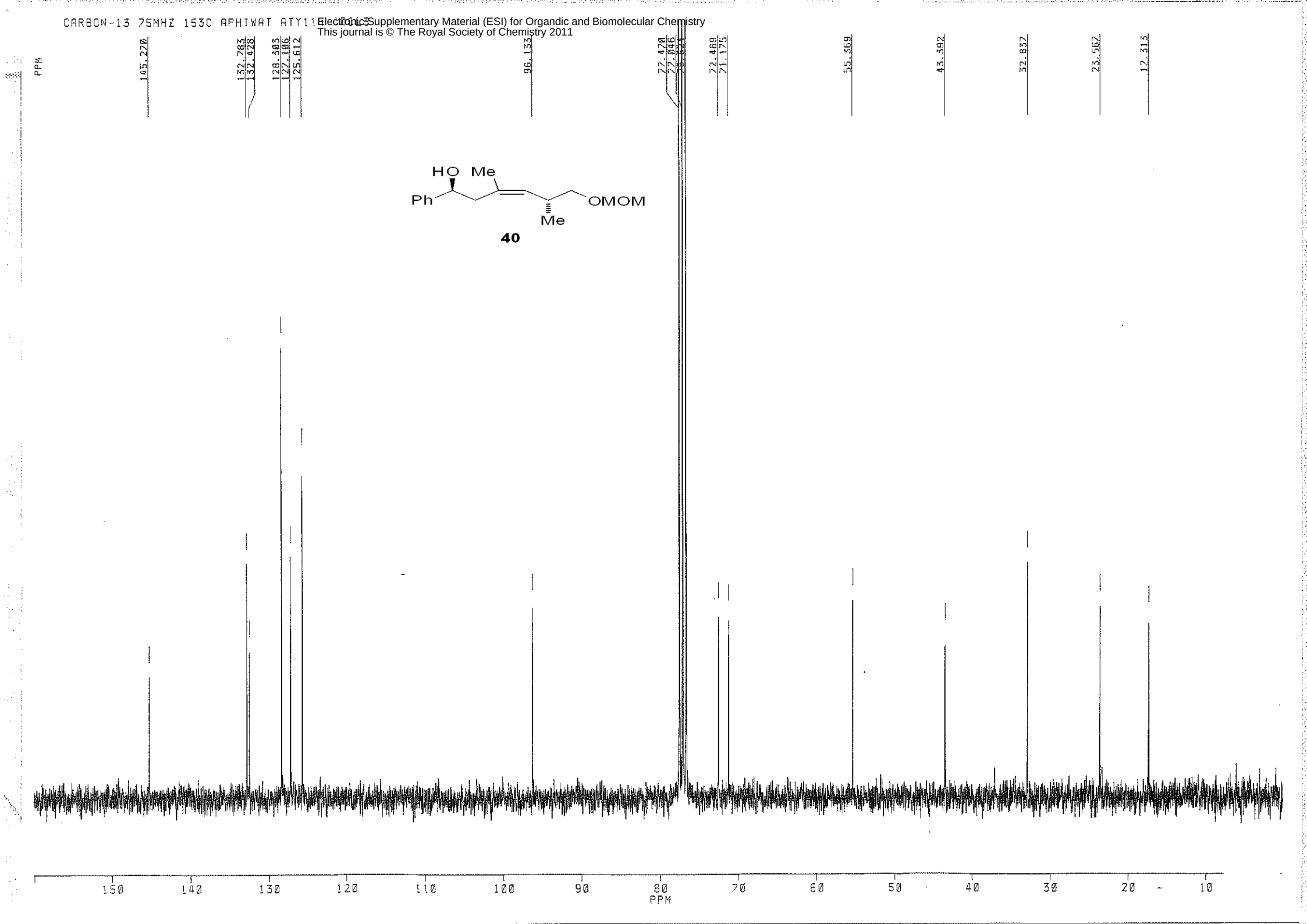

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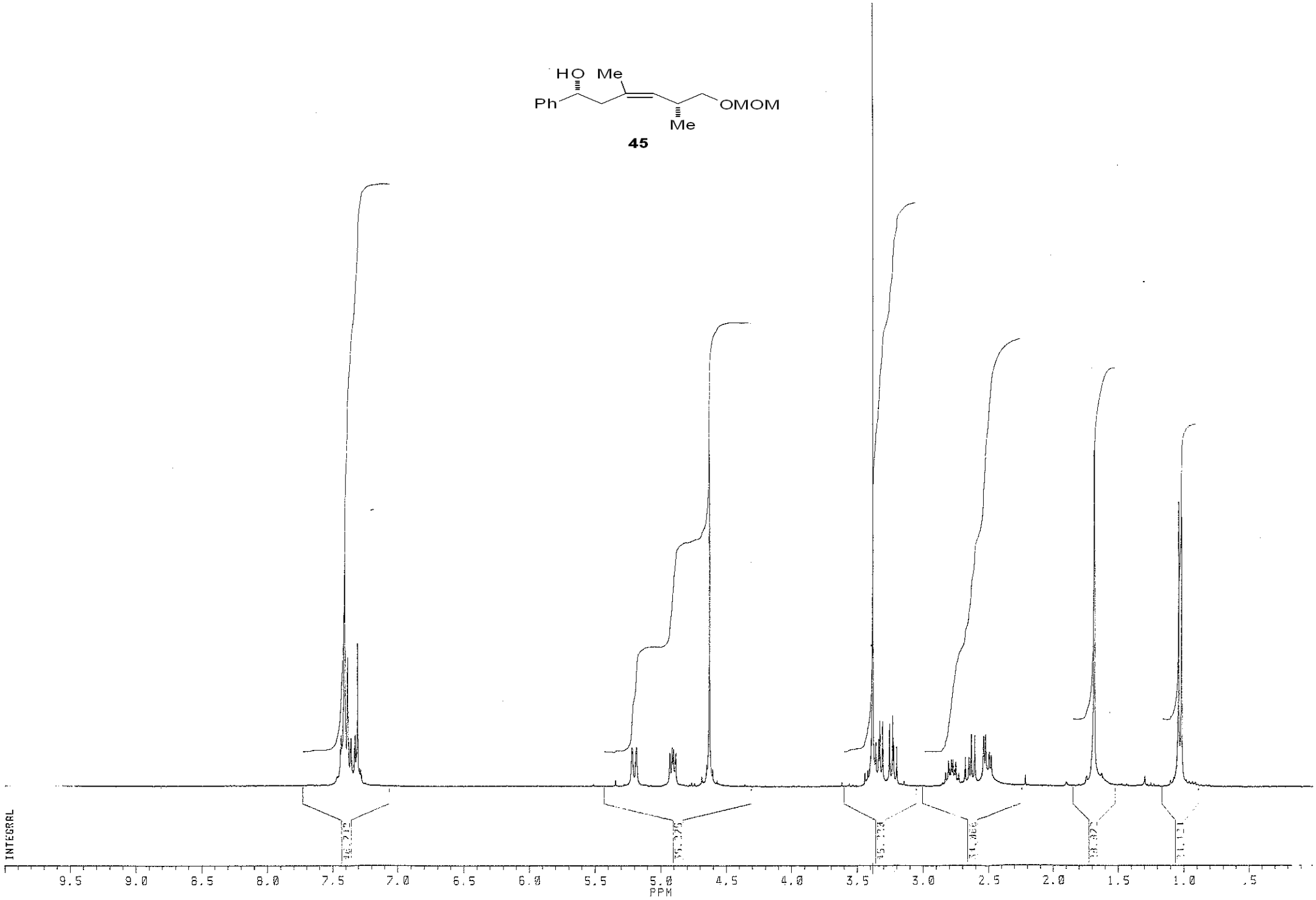
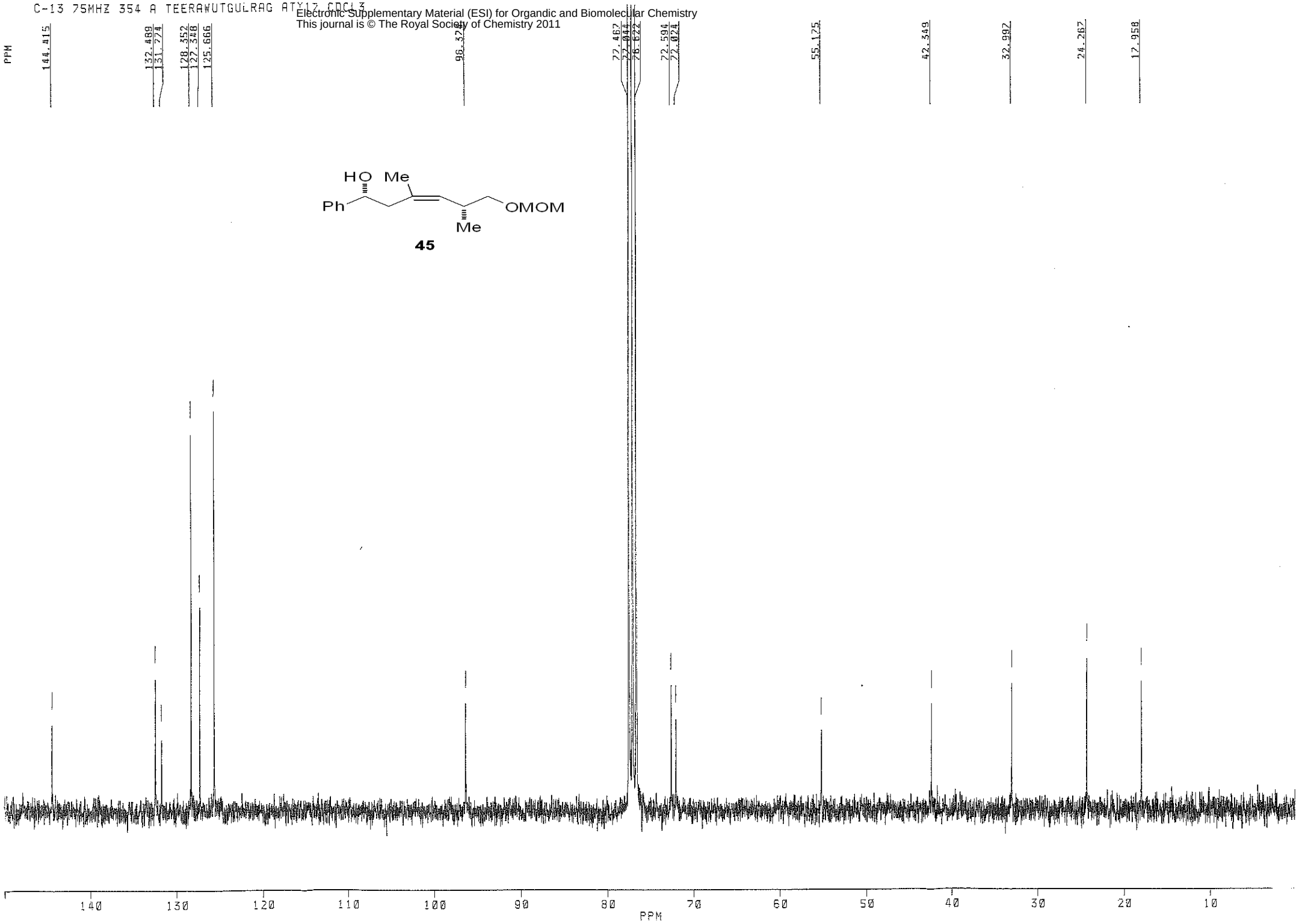
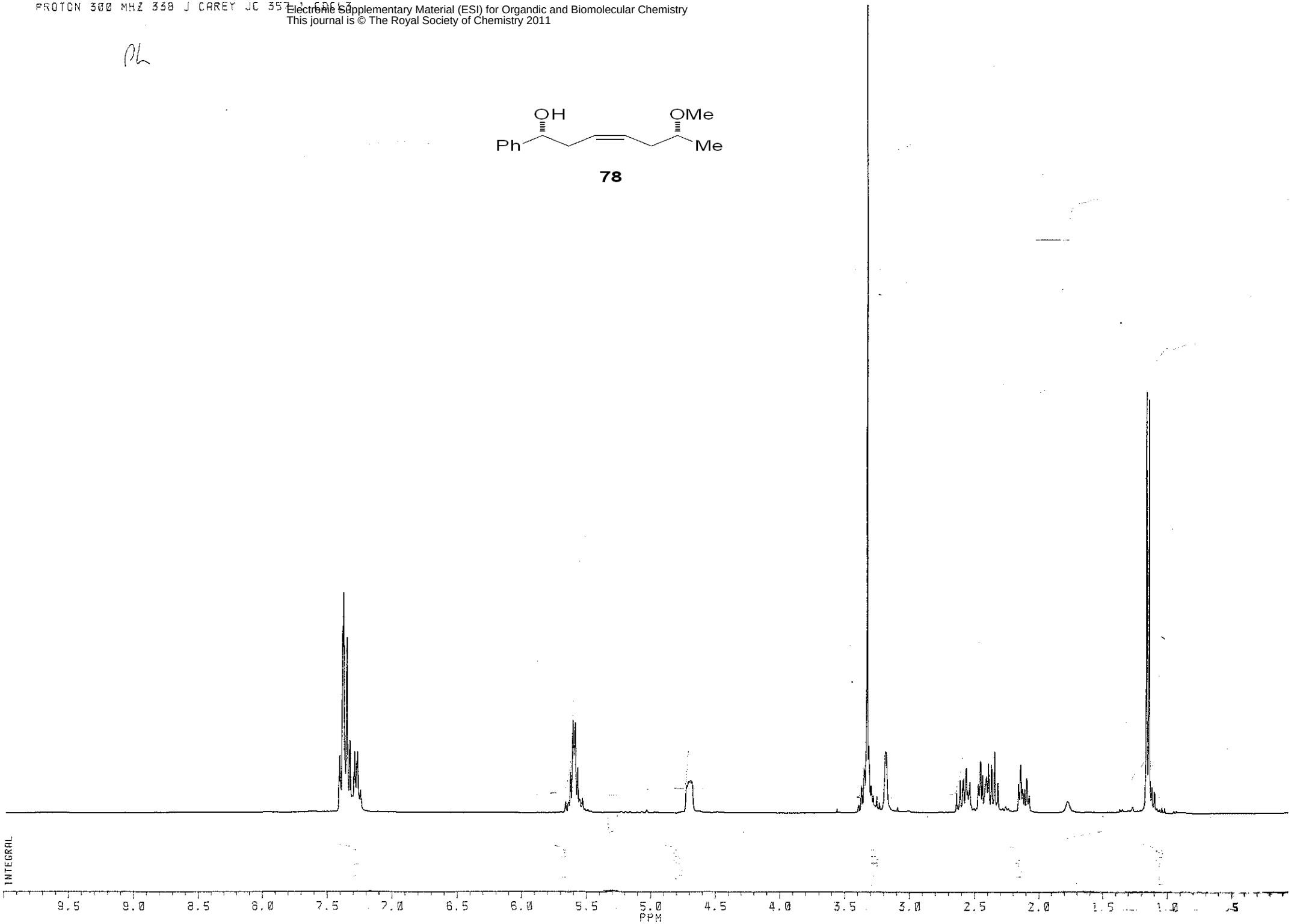




PROTON 300 MHZ 338 J CAREY JC 357 J CDCL3

PL

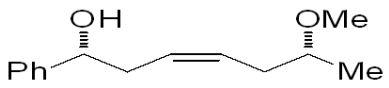
78



CARBO-13 75 MHZ 338 J CAREY JC 357-1 CDCL3

PPM

144.578
129.323
128.304
128.017
127.414
127.281
126.816
125.800
72.422
72.252
72.040
26.624
26.524
23.463
56.074
37.266
34.488
33.977
18.893
16.603



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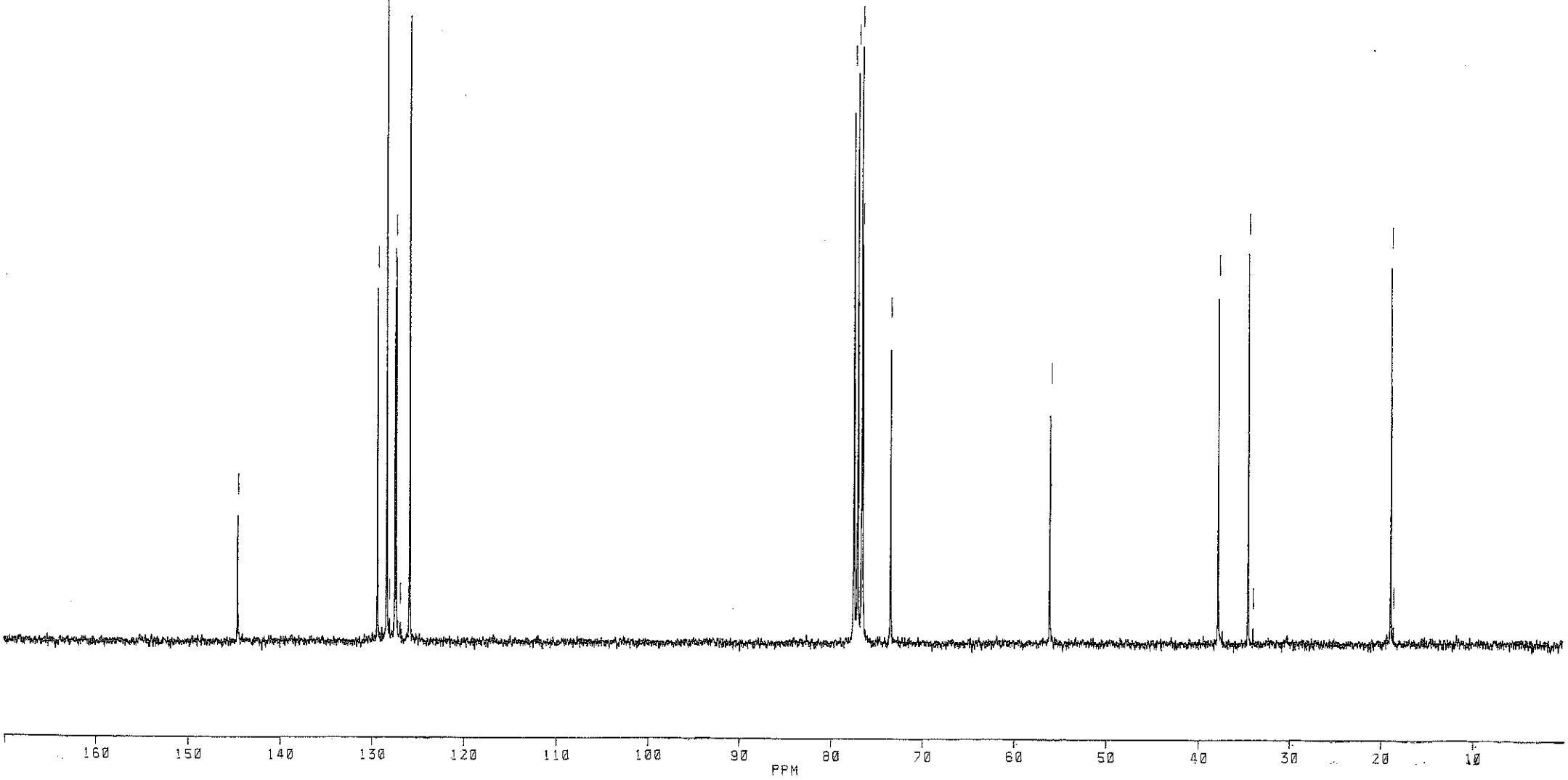

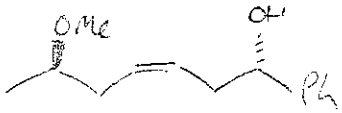

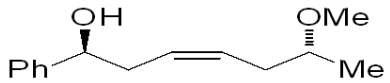

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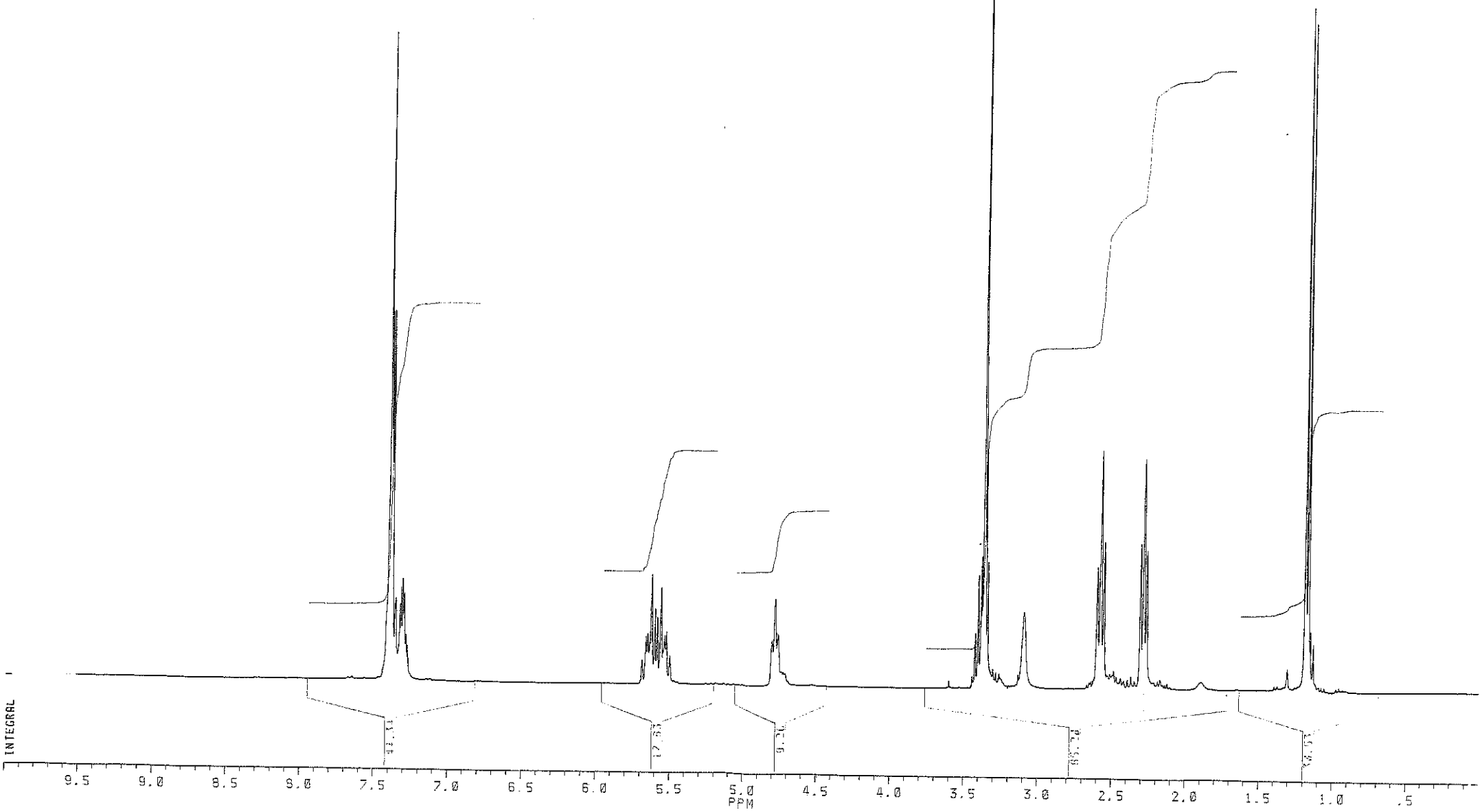

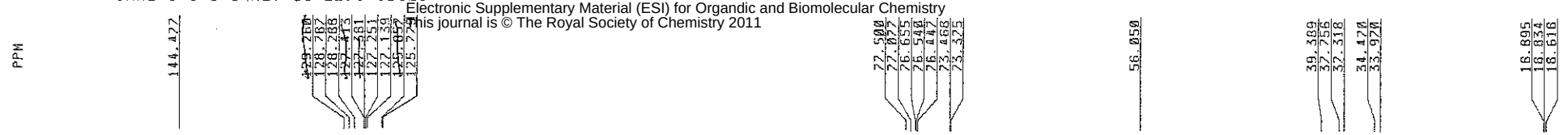

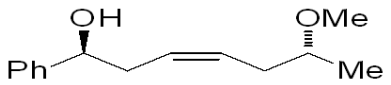

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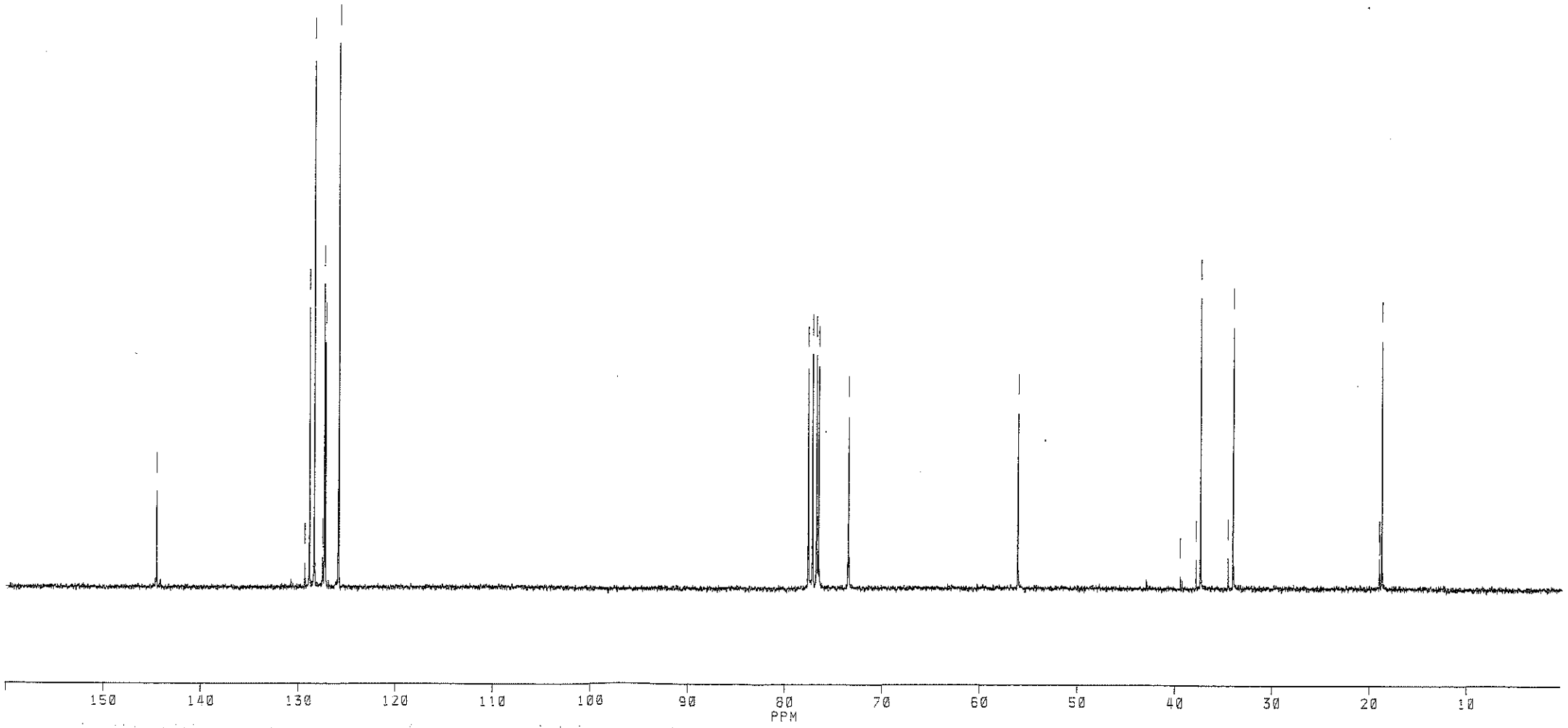

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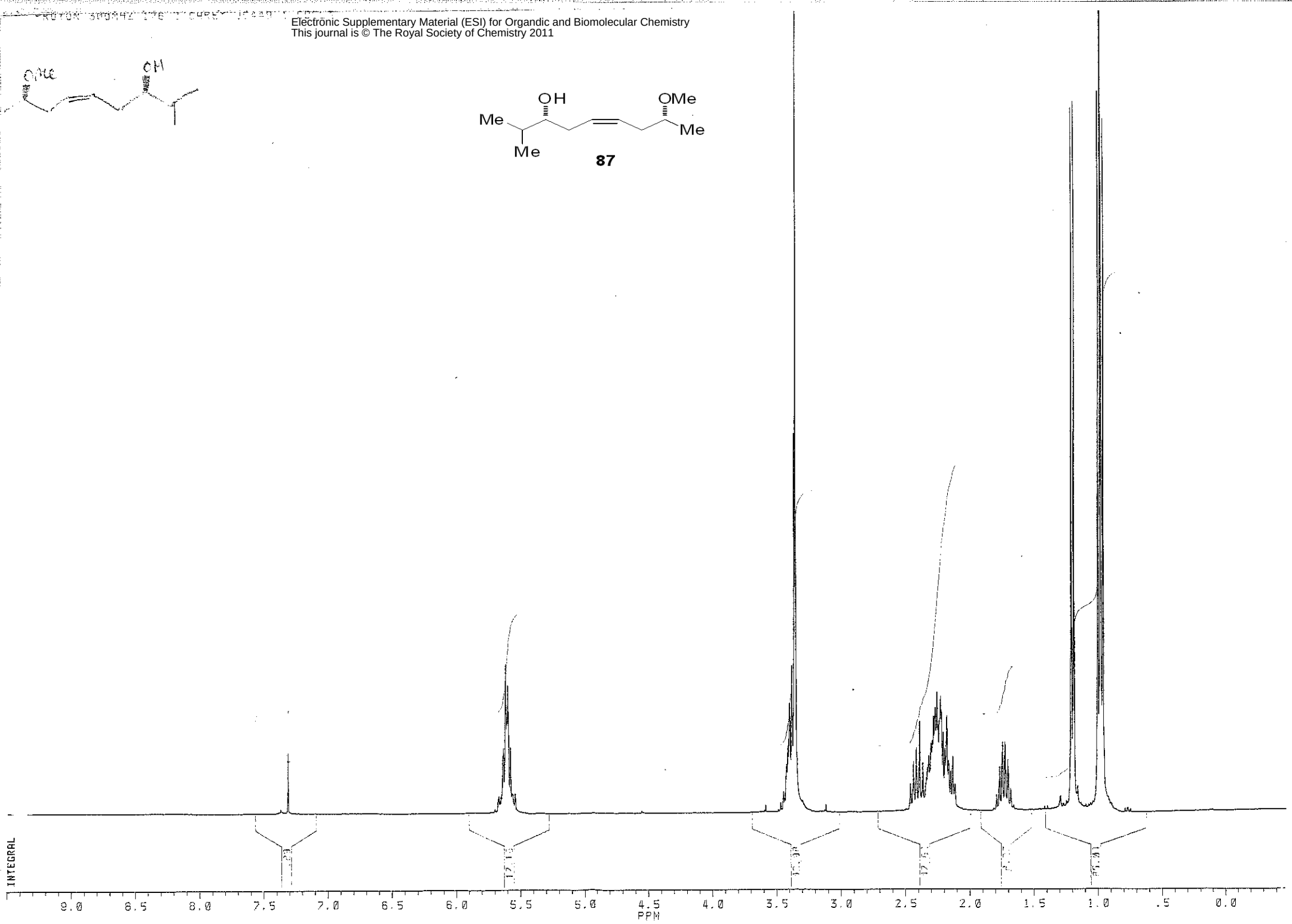

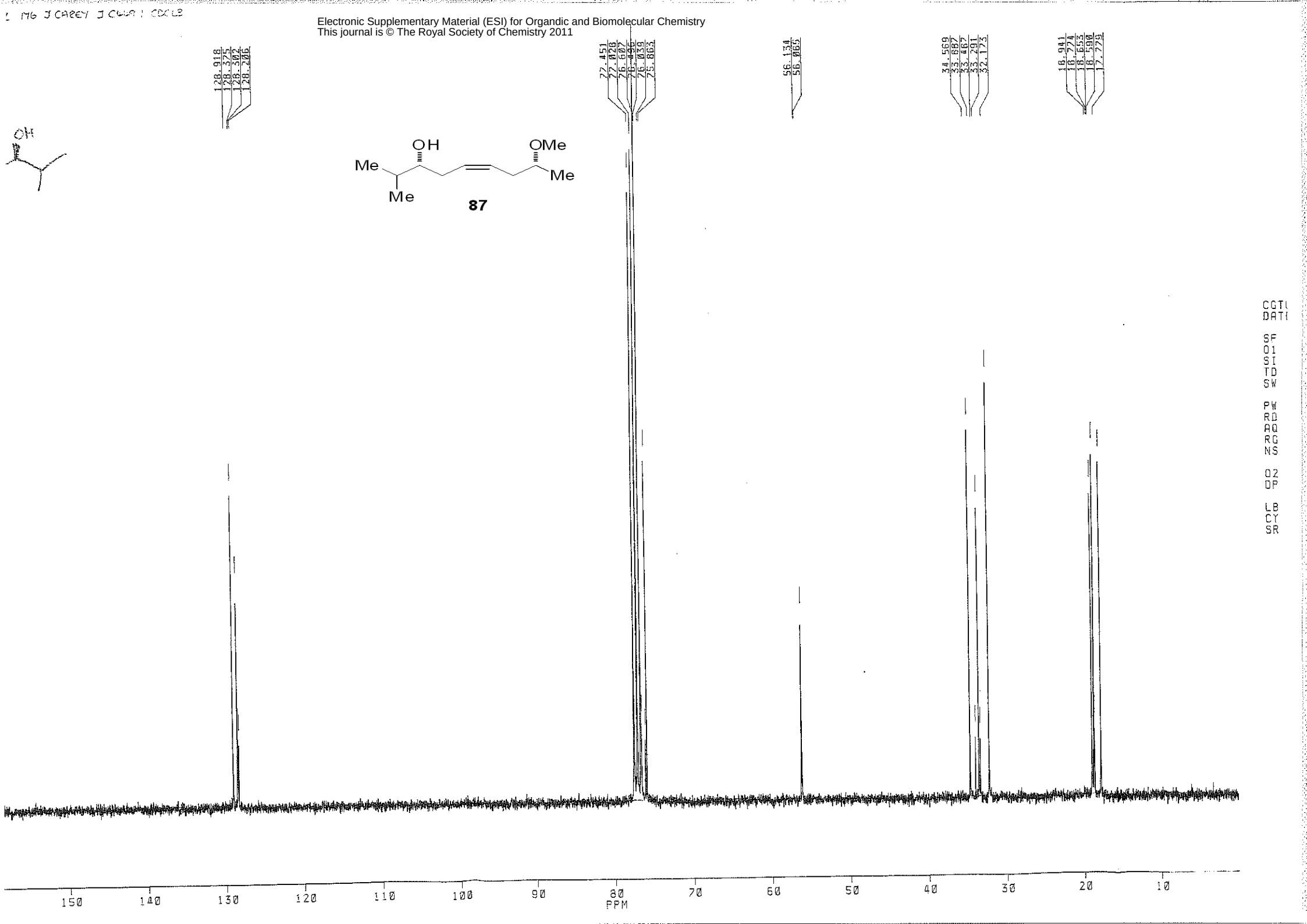

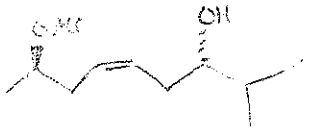

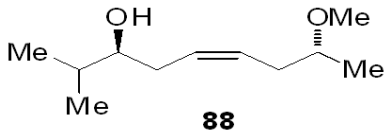

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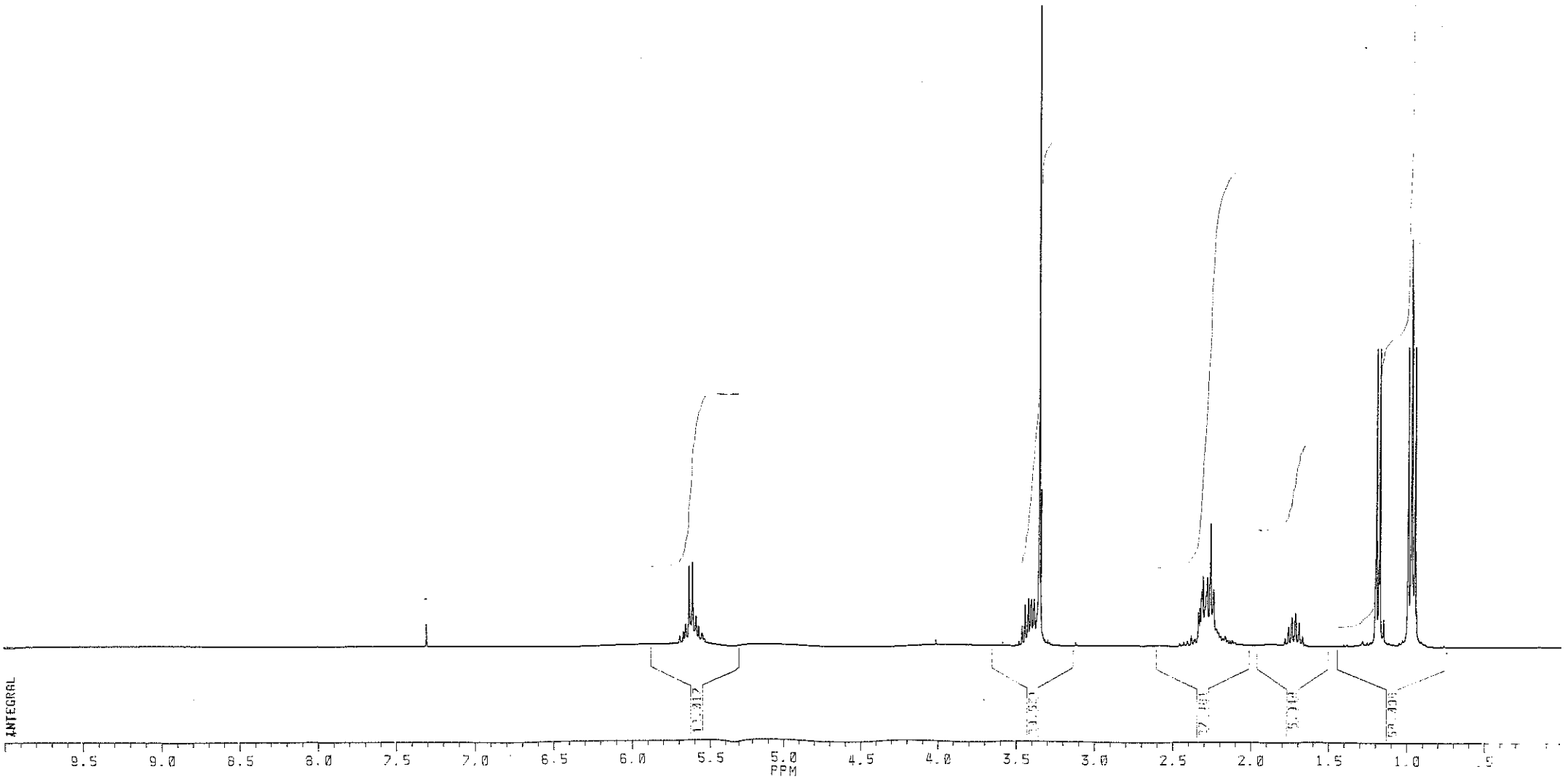
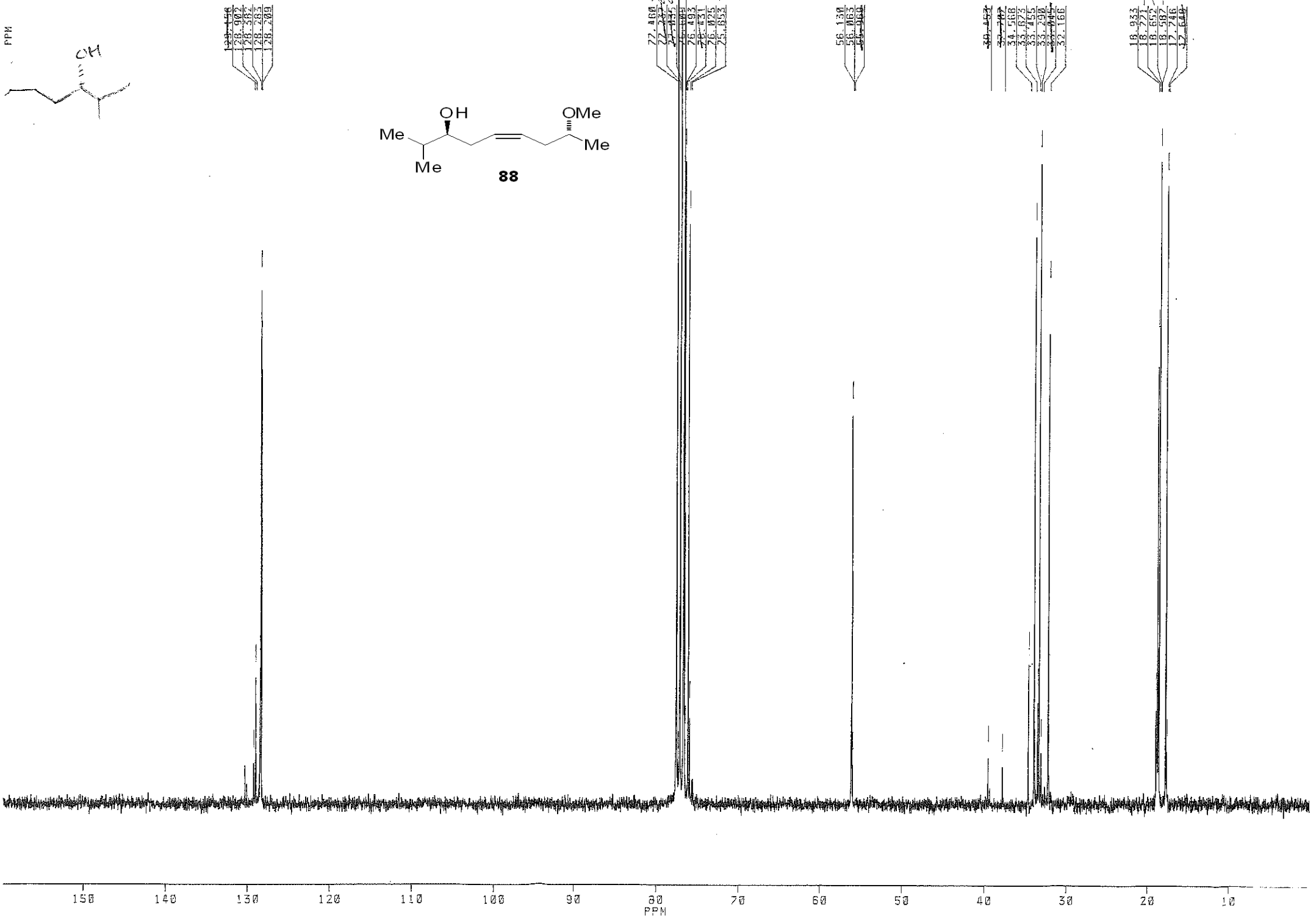
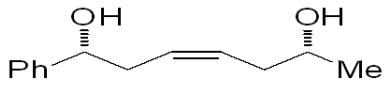


C-13 75MHZ 267 J CAREY JC 471.1 CDCL3

88





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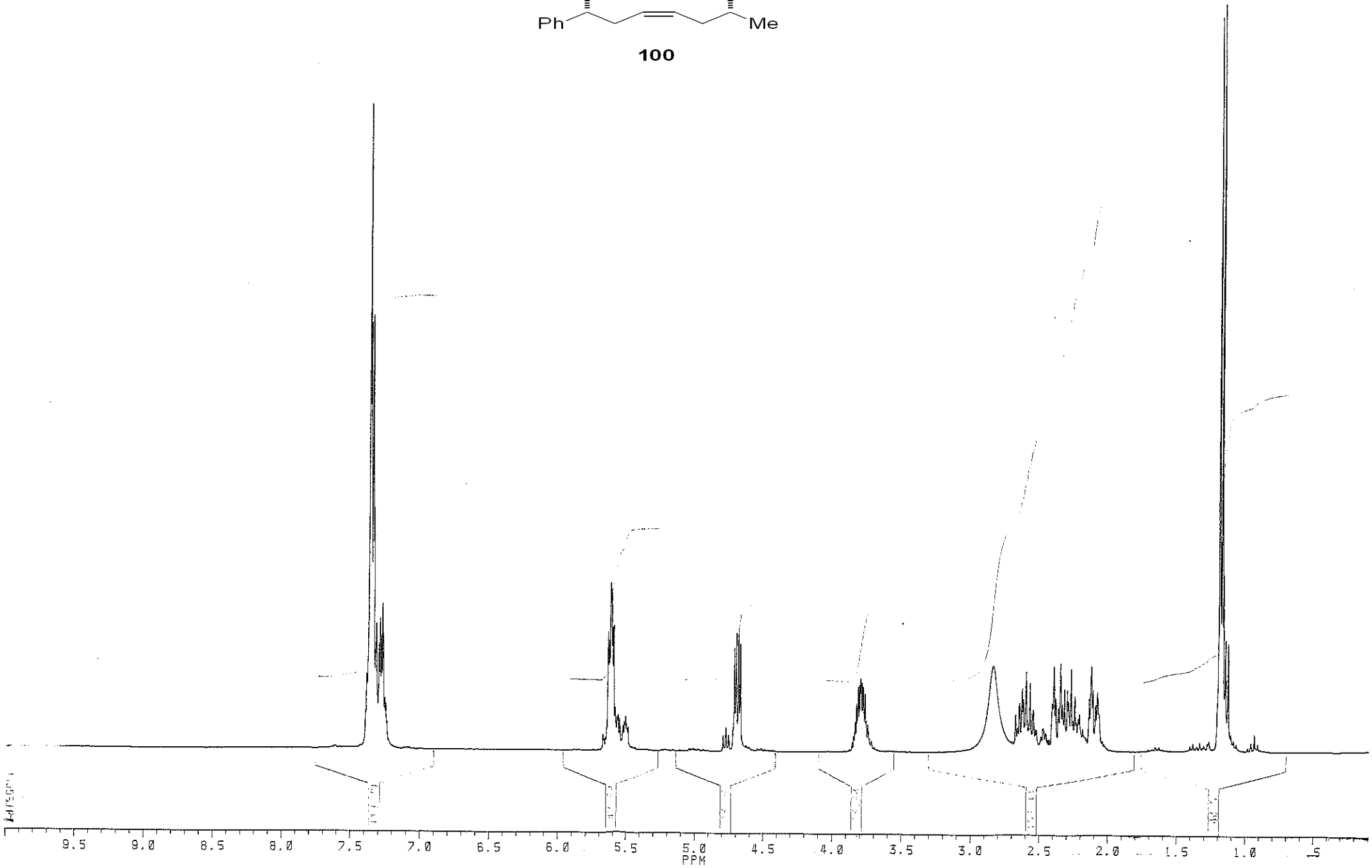
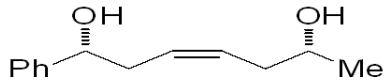


PPM

144.462
144.169
129.122
128.644
128.449
128.380
127.963
127.444
127.382
125.294
77.467
77.044
76.622
73.596
73.397
67.420
67.318
37.494
36.976
36.669
23.327
22.878



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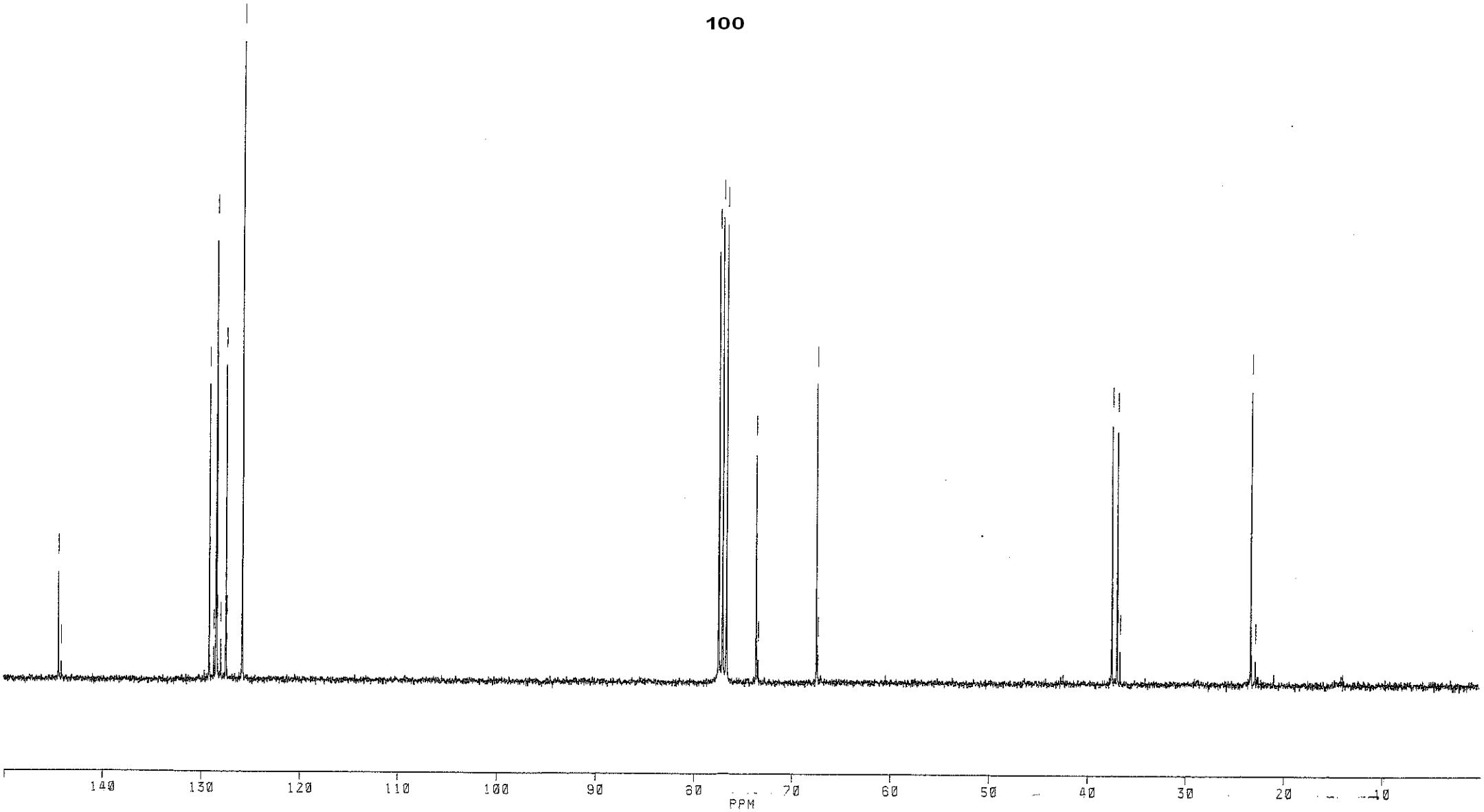

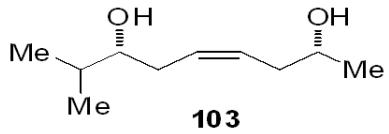

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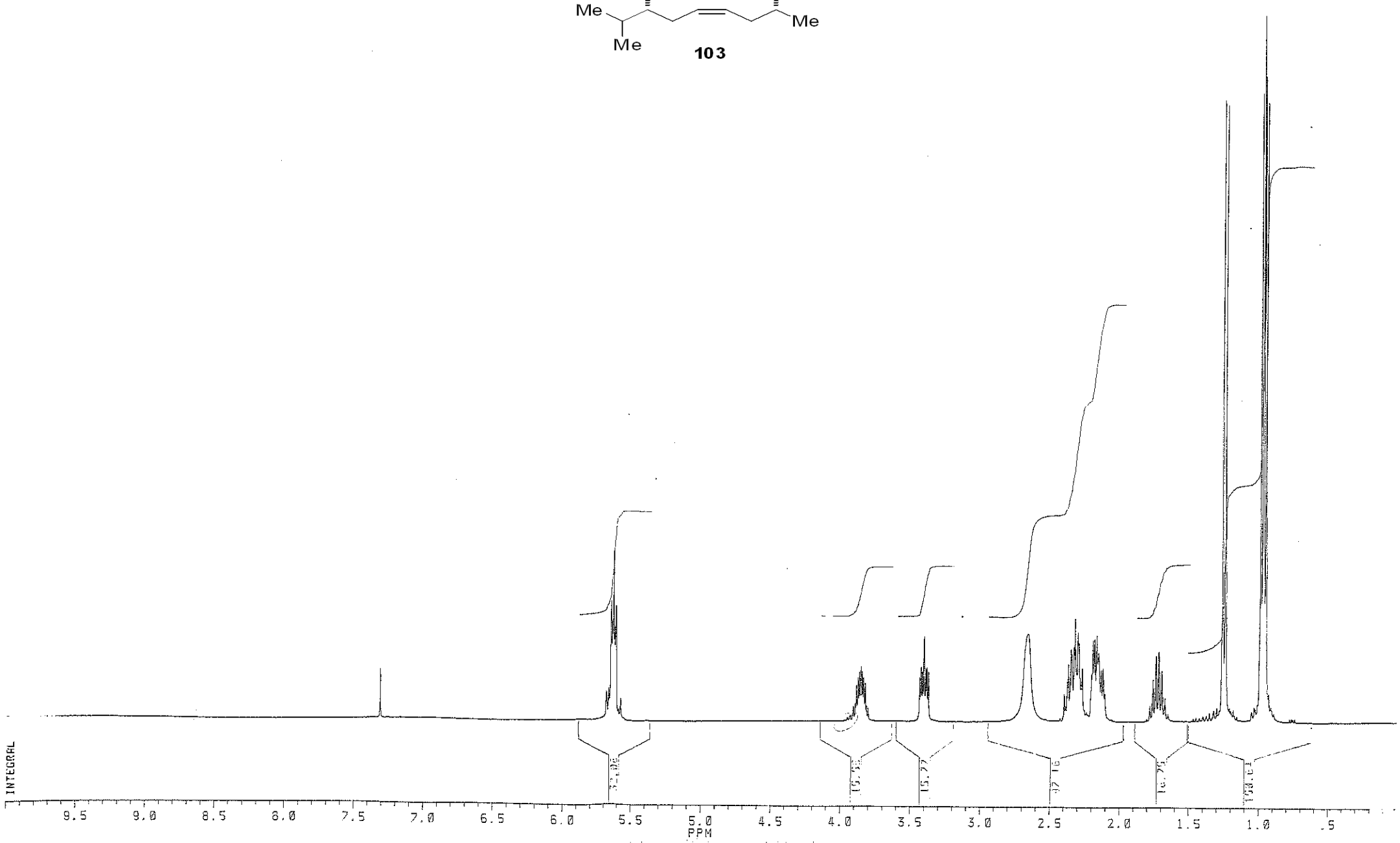
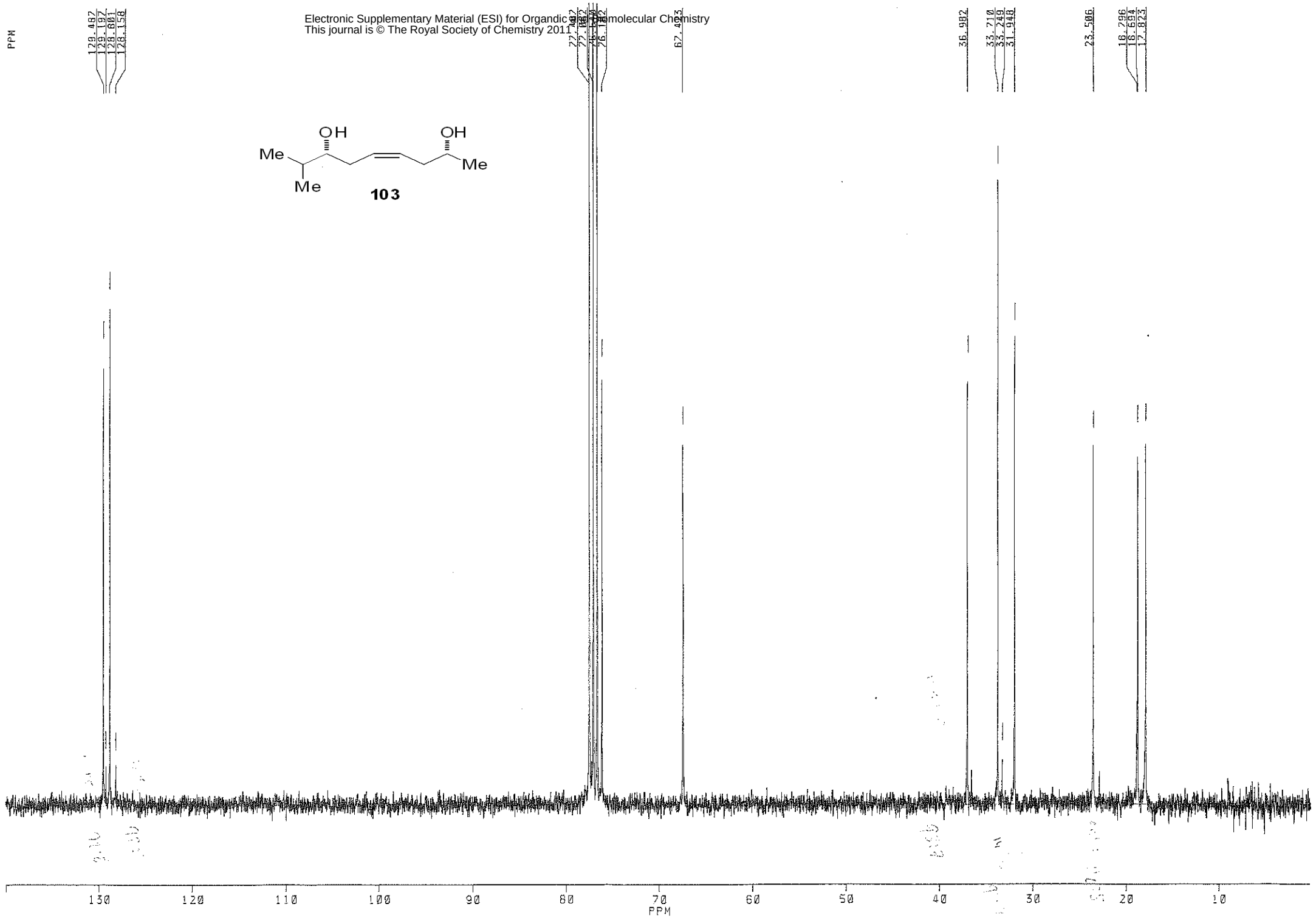




smacc-02-52
STANDARD 1H OBSERVE

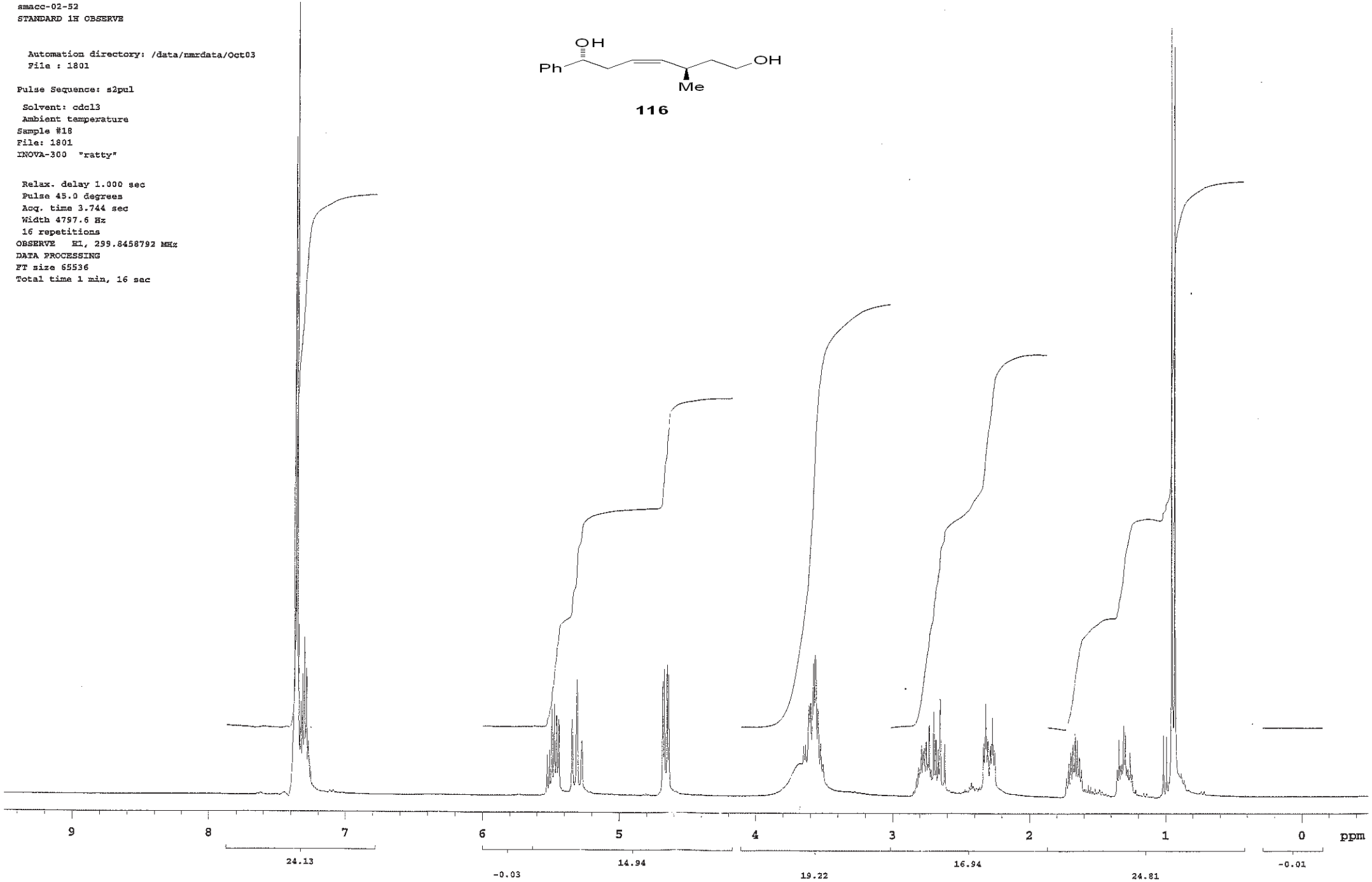
Automation directory: /data/nmrdata/Oct03
File : 1801

Pulse Sequence: s2pul

Solvent: cdcl3
Ambient temperature
Sample #18
File: 1801
INOVA-300 "ratty"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.744 sec
Width 4797.6 Hz
16 repetitions
OBSERVE H1, 299.8458792 MHz
DATA PROCESSING
FT size 65536
Total time 1 min, 16 sec

116



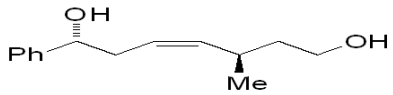
smacc-02-04
STANDARD 1H OBSERVE

Automation directory: /data/nmrdata/Jun26
File : 1403

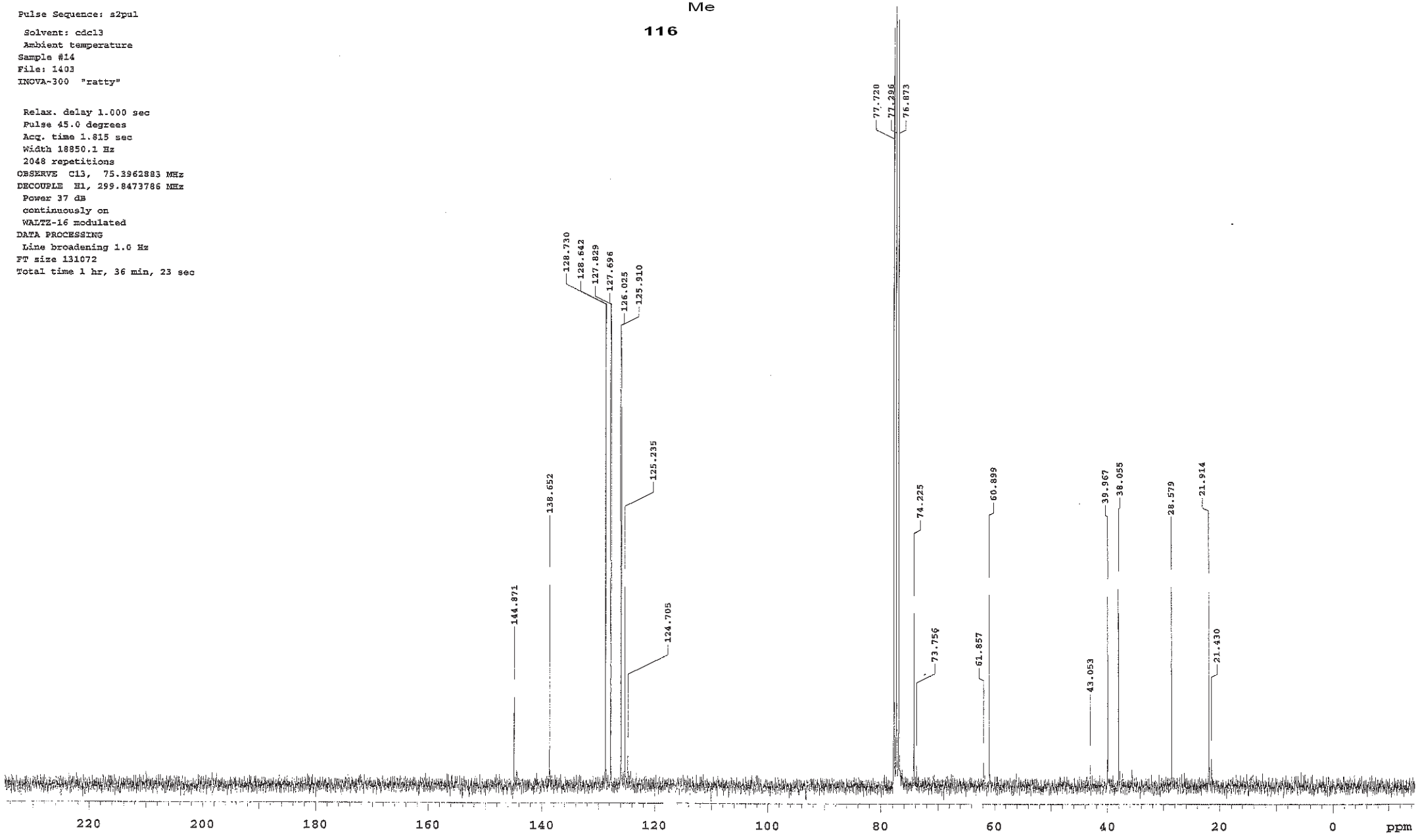
Pulse Sequence: s2pul

Solvent: cdcl3
Ambient temperature
Sample #14
File: 1403
INOVA-300 "ratty"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.815 sec
Width 18850.1 Hz
2048 repetitions
OBSERVE C13, 75.3962883 MHz
DECOUPLE H1, 299.8473786 MHz
Power 37 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 131072
Total time 1 hr, 36 min, 23 sec



116



smacc-02-62
STANDARD 1H OBSERVE

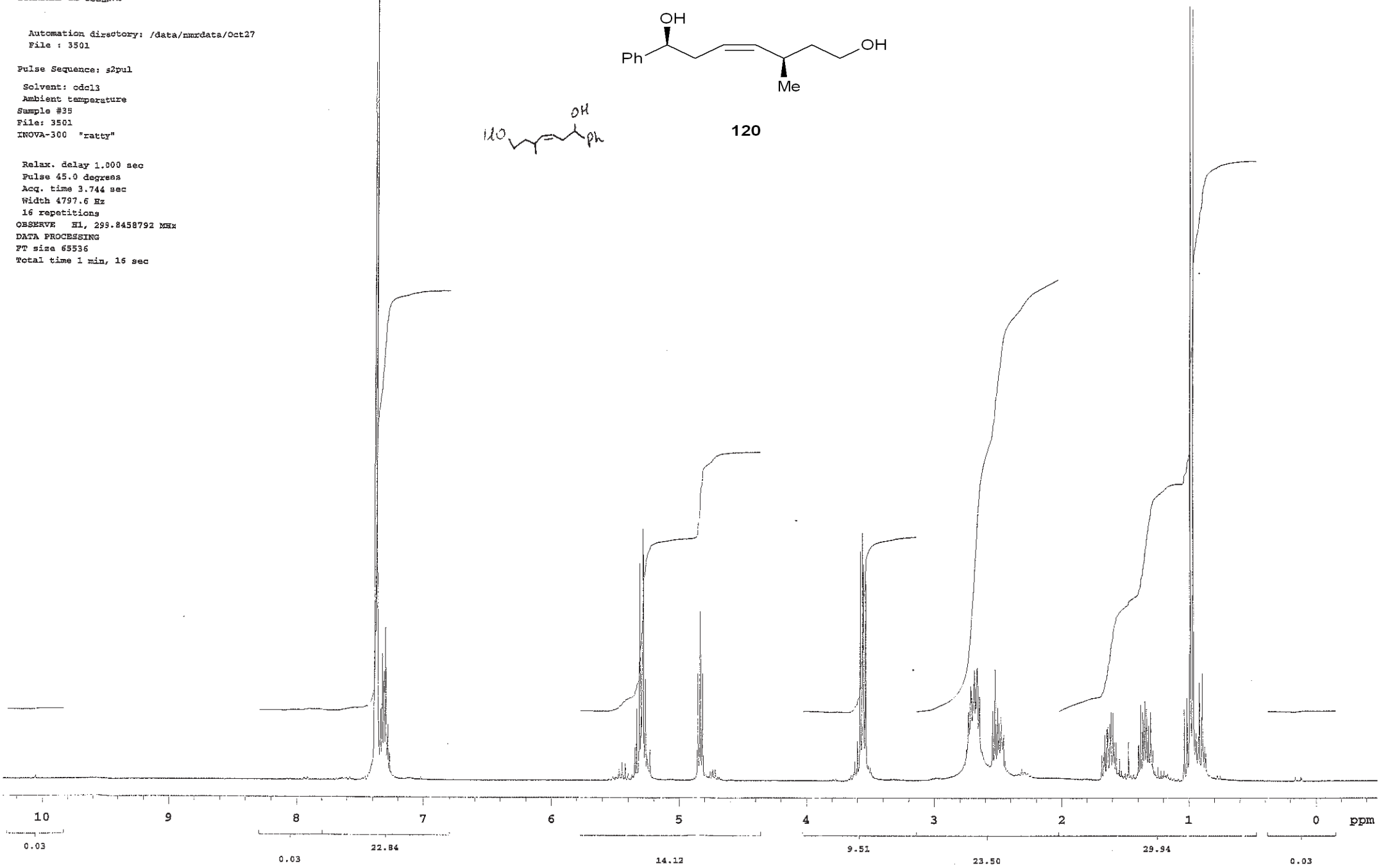
Automation directory: /data/nmrdata/Oct27
File : 3501

Pulse Sequence: s2pul

Solvent: cdcl3
Ambient temperature
Sample #35
File: 3501
INOVA-300 "ratty"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.744 sec
Width 4797.6 Hz
16 repetitions
OBSERVE H1, 299.8458792 MHz
DATA PROCESSING
FT size 65536
Total time 1 min, 16 sec

120



smacc-02-62
13C OBSERVE

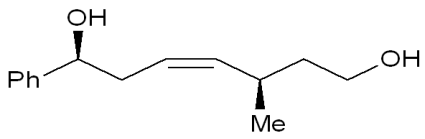
pad=2 run with findz0 before acquisition

Automation directory: /data/nmrdata/Oct27
File : 5001

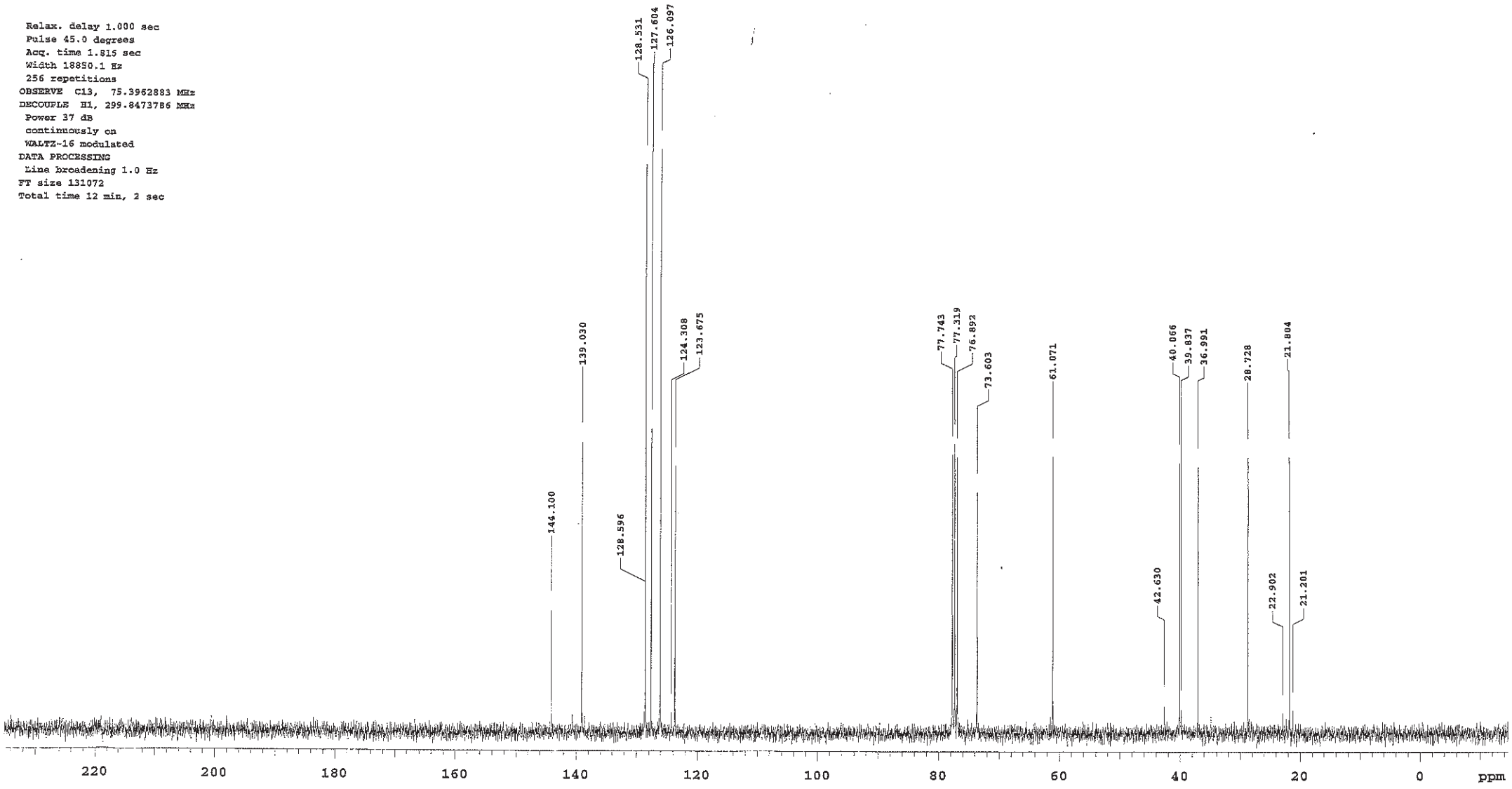
Pulse Sequence: s2pul

Solvent: cdcl3
Ambient temperature
Sample #50
File: 5001
INOVA-300 "ratty"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.815 sec
Width 18850.1 Hz
256 repetitions
OBSERVE C13, 75.3962883 MHz
DECOUPLE H1, 299.8473786 MHz
Power 37 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 131072
Total time 12 min, 2 sec



120



smacc-03-4ome
STANDARD 1H OBSERVE

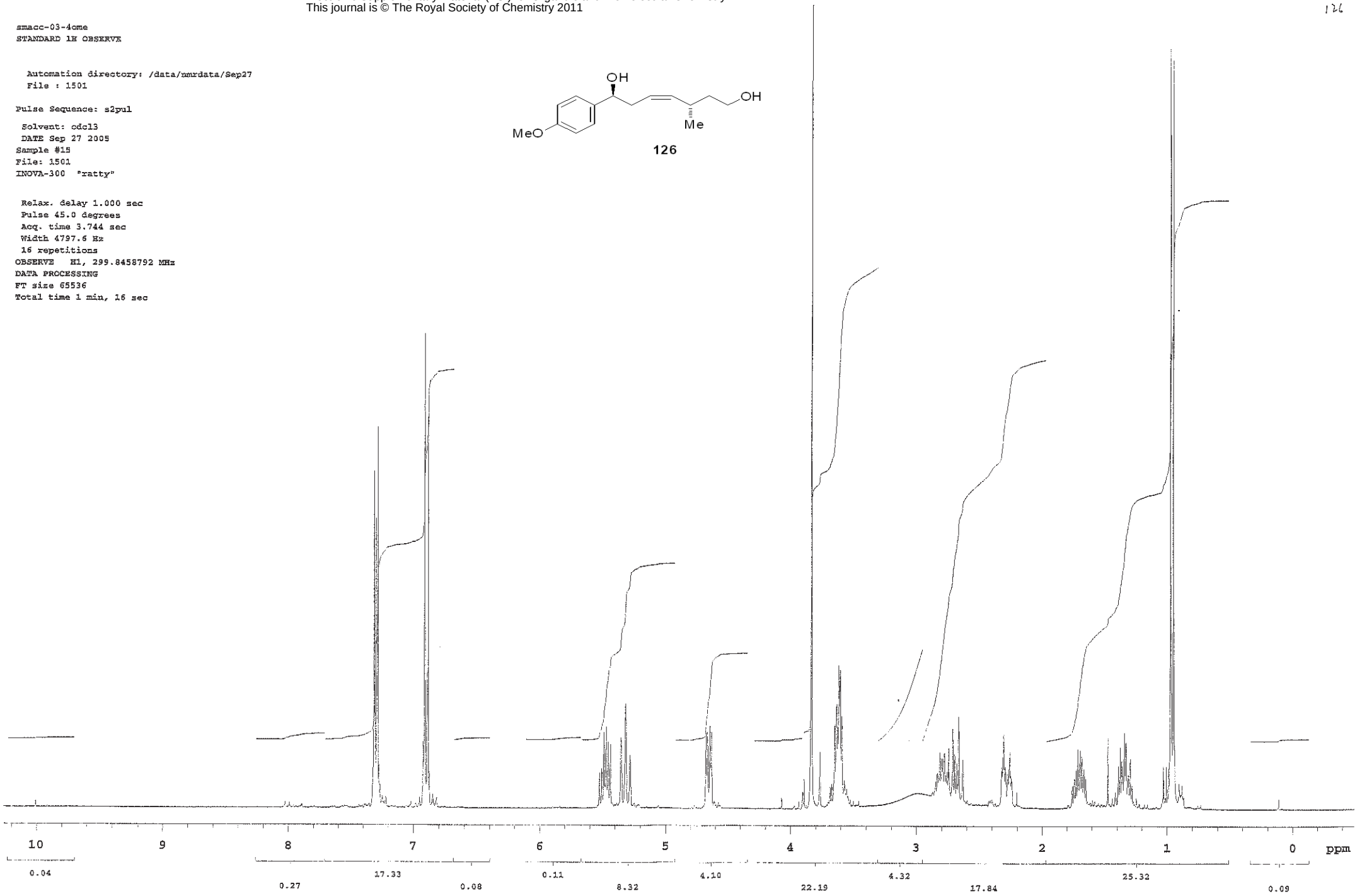
Automation directory: /data/nmrdata/Sep27
File : 1501

Pulse Sequence: s2pul

Solvent: cdcl3
DATE Sep 27 2005
Sample #15
File: 1501
INOVA-300 "ratty"

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 3.744 sec
Width 4797.6 Hz
16 repetitions
OBSERVE H1, 299.8458792 MHz
DATA PROCESSING
FT size 65536
Total time 1 min, 16 sec

126



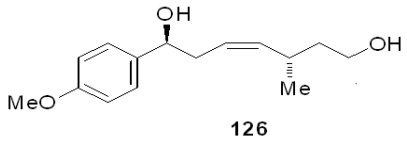
smacc-03-anis
STANDARD 1H OBSERVE

Automation directory: /data/nmrdata/Sep26
File : 0404

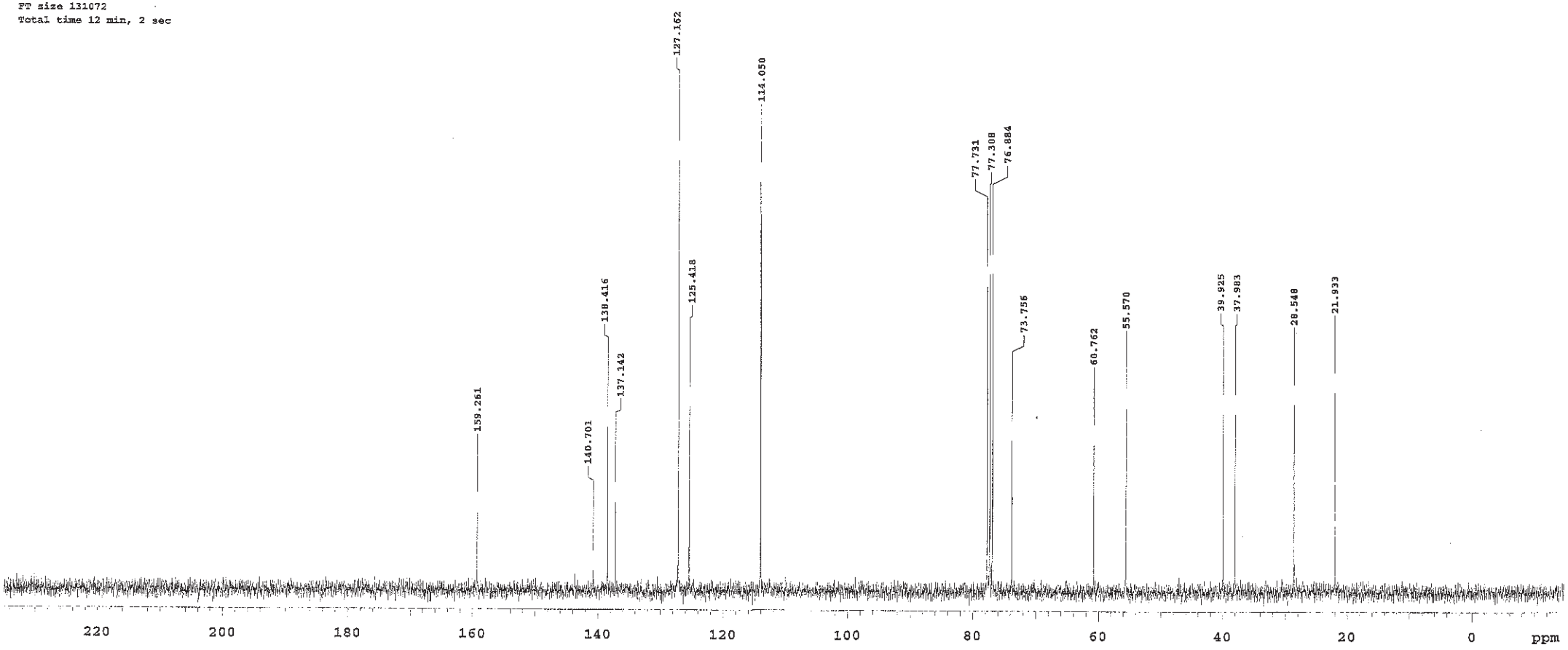
Pulse Sequence: s2pul

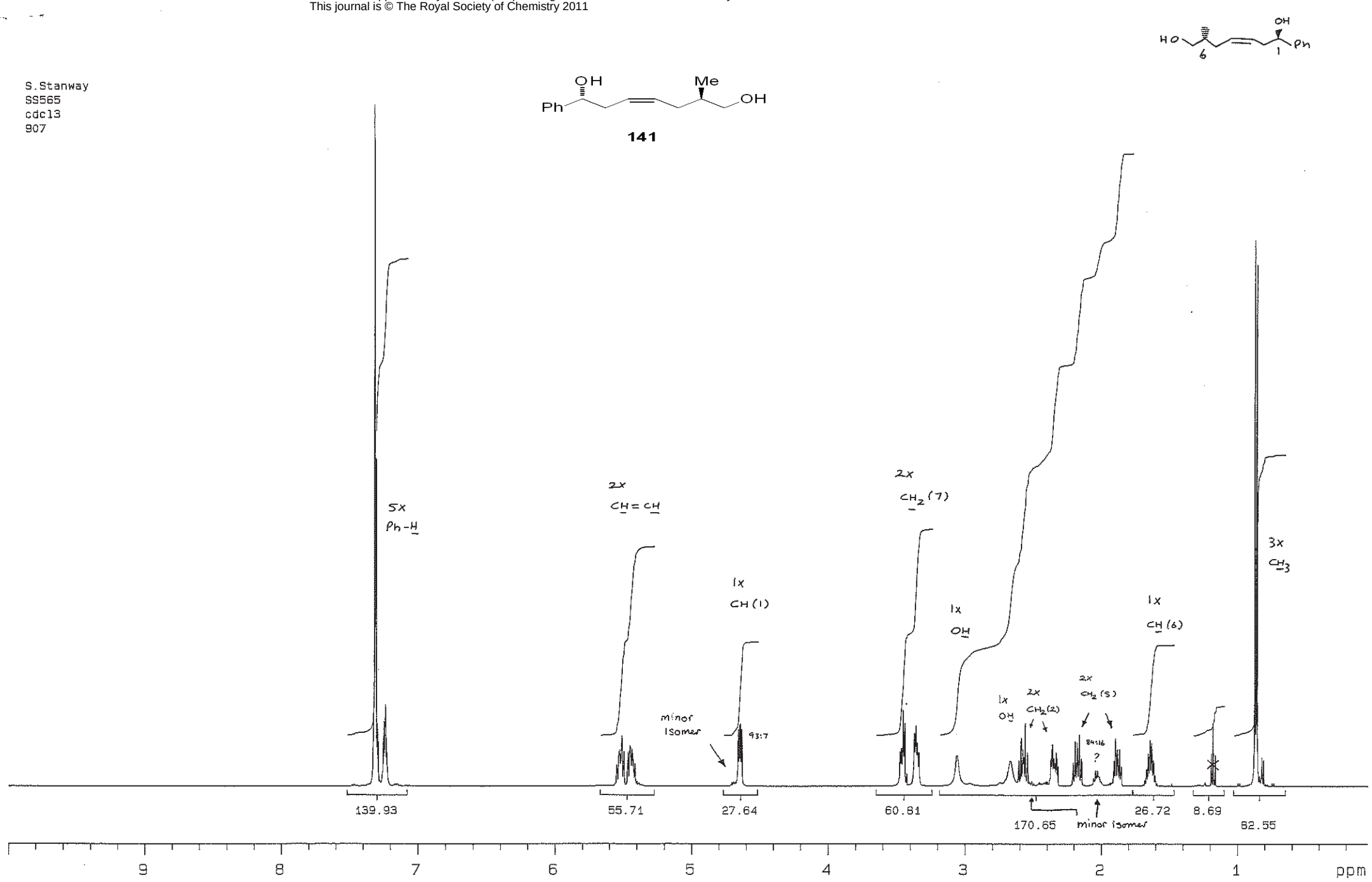
Solvent: cdcl3
DATE Sep 27 2005
Sample #4
File: 0404
INOVA-300 "ratty"

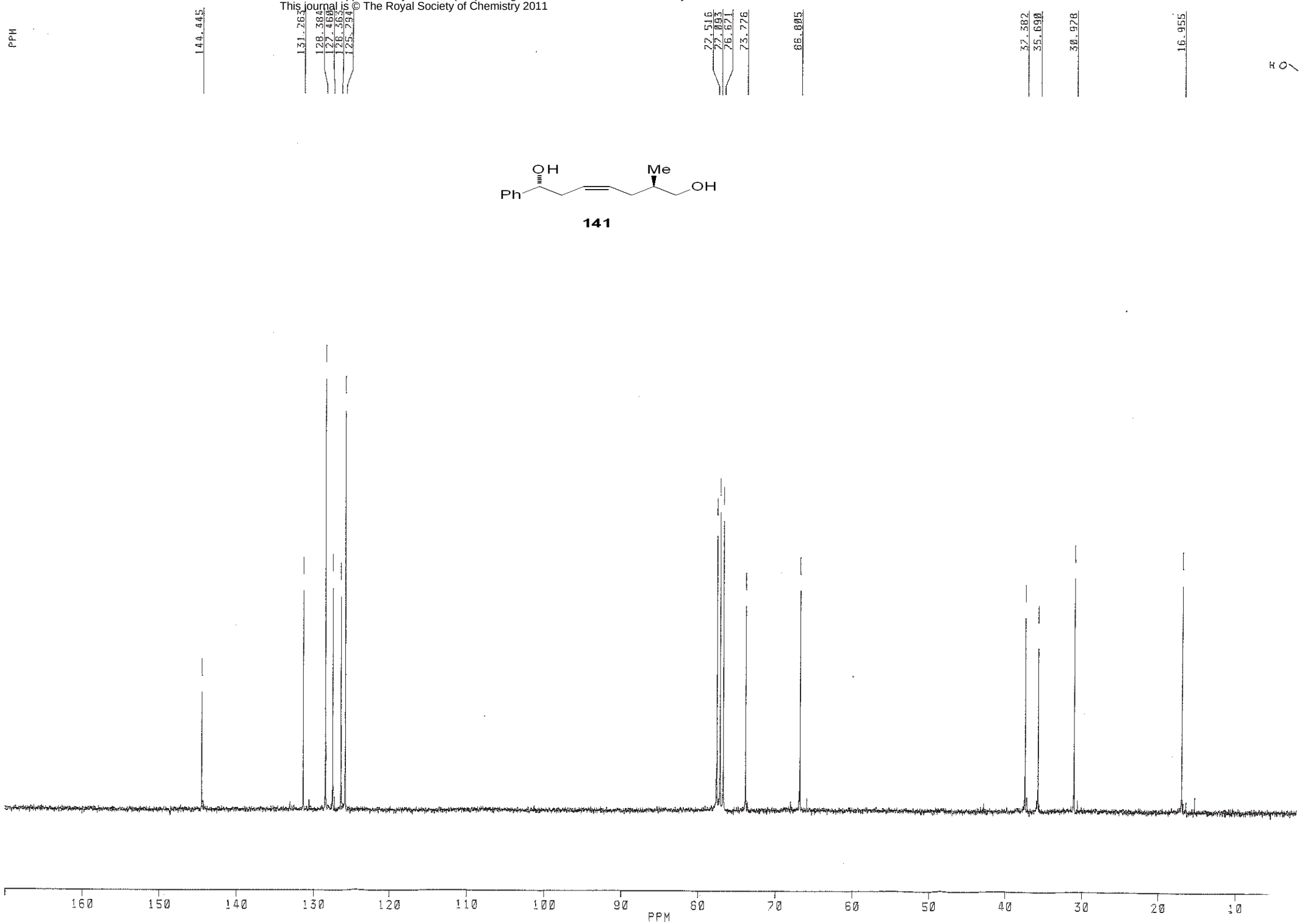
Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.815 sec
Width 18850.1 Hz
256 repetitions
OBSERVE C13, 75.3962883 MHz
DECOUPLE H1, 299.8473786 MHz
Power 37 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 131072
Total time 12 min, 2 sec



126







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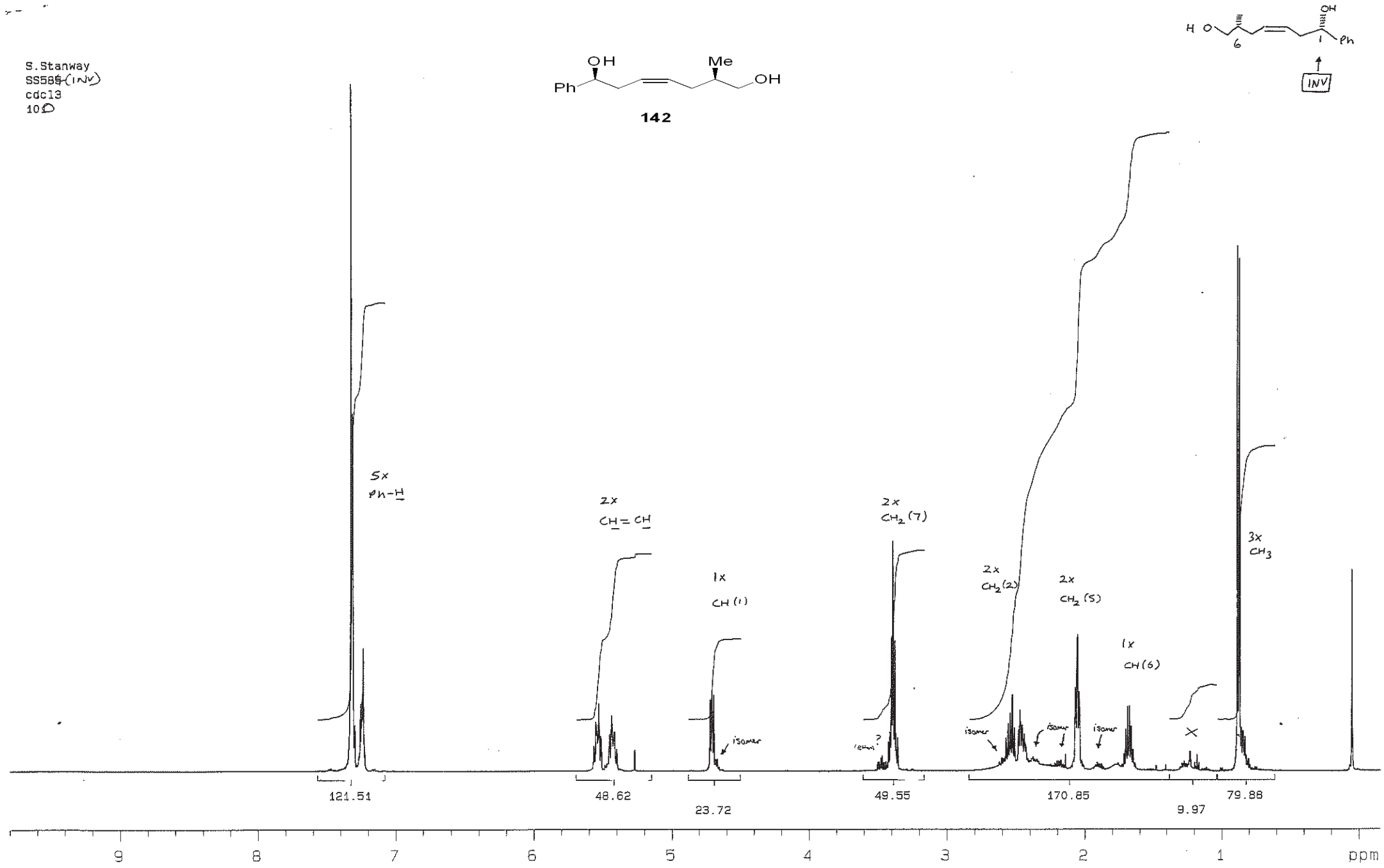
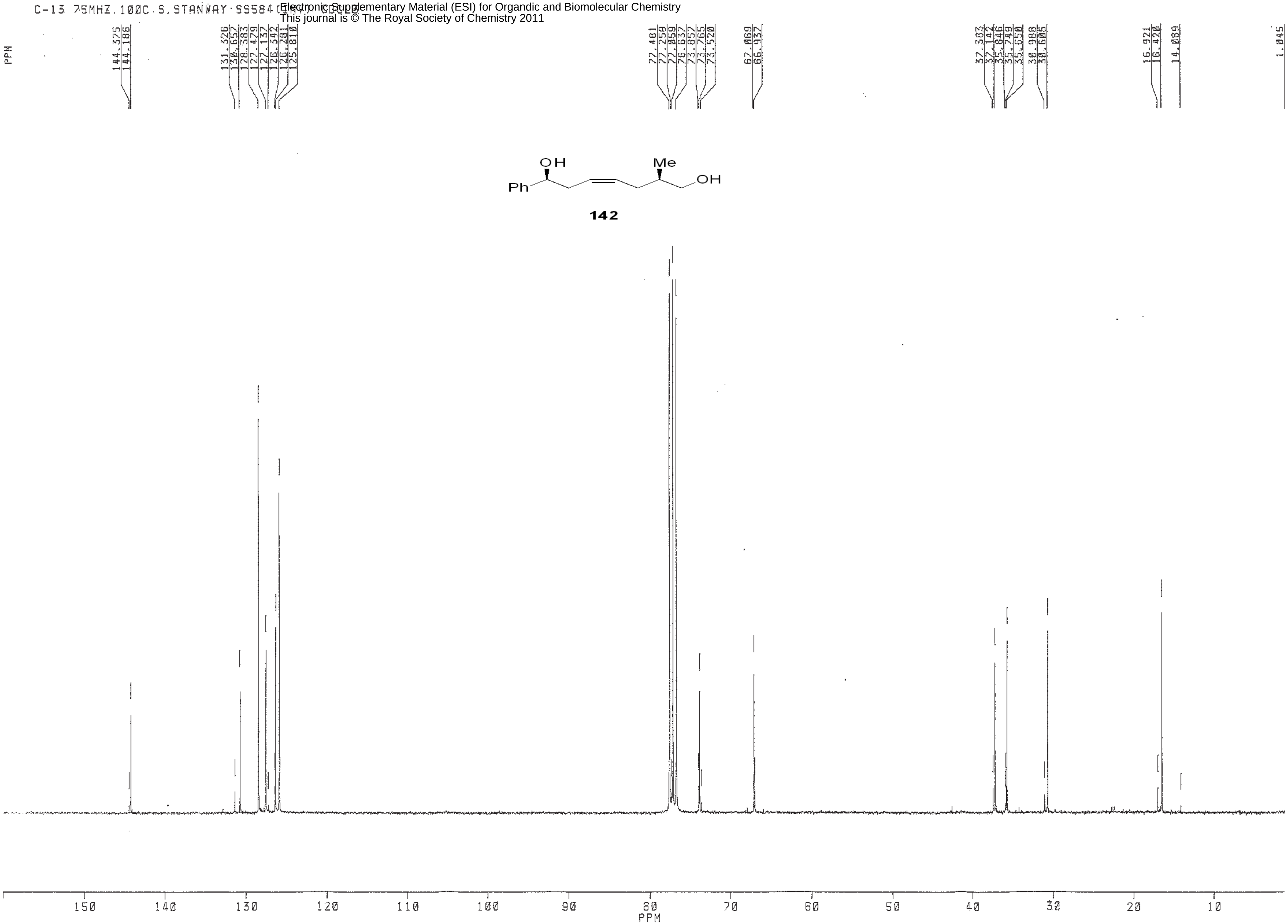
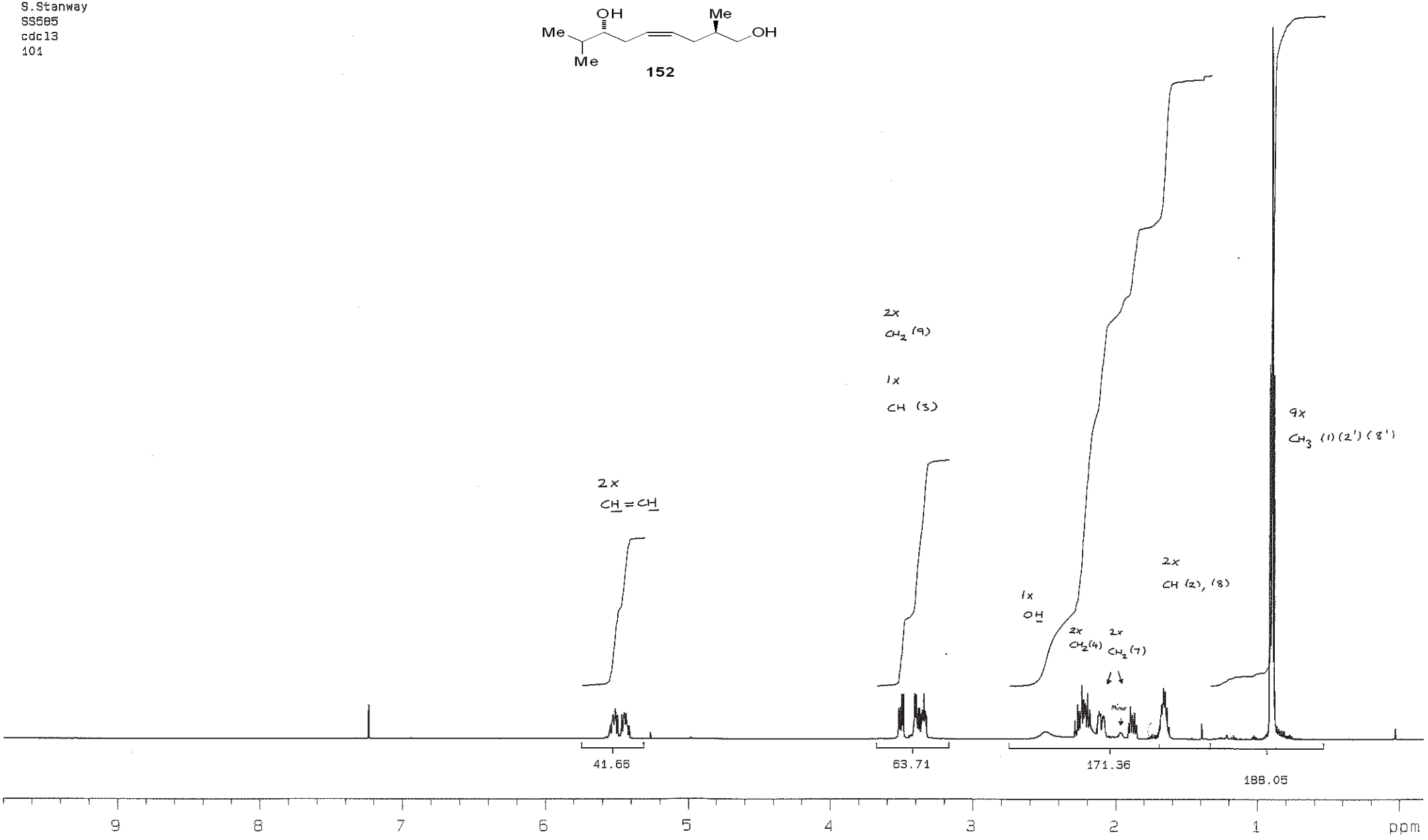


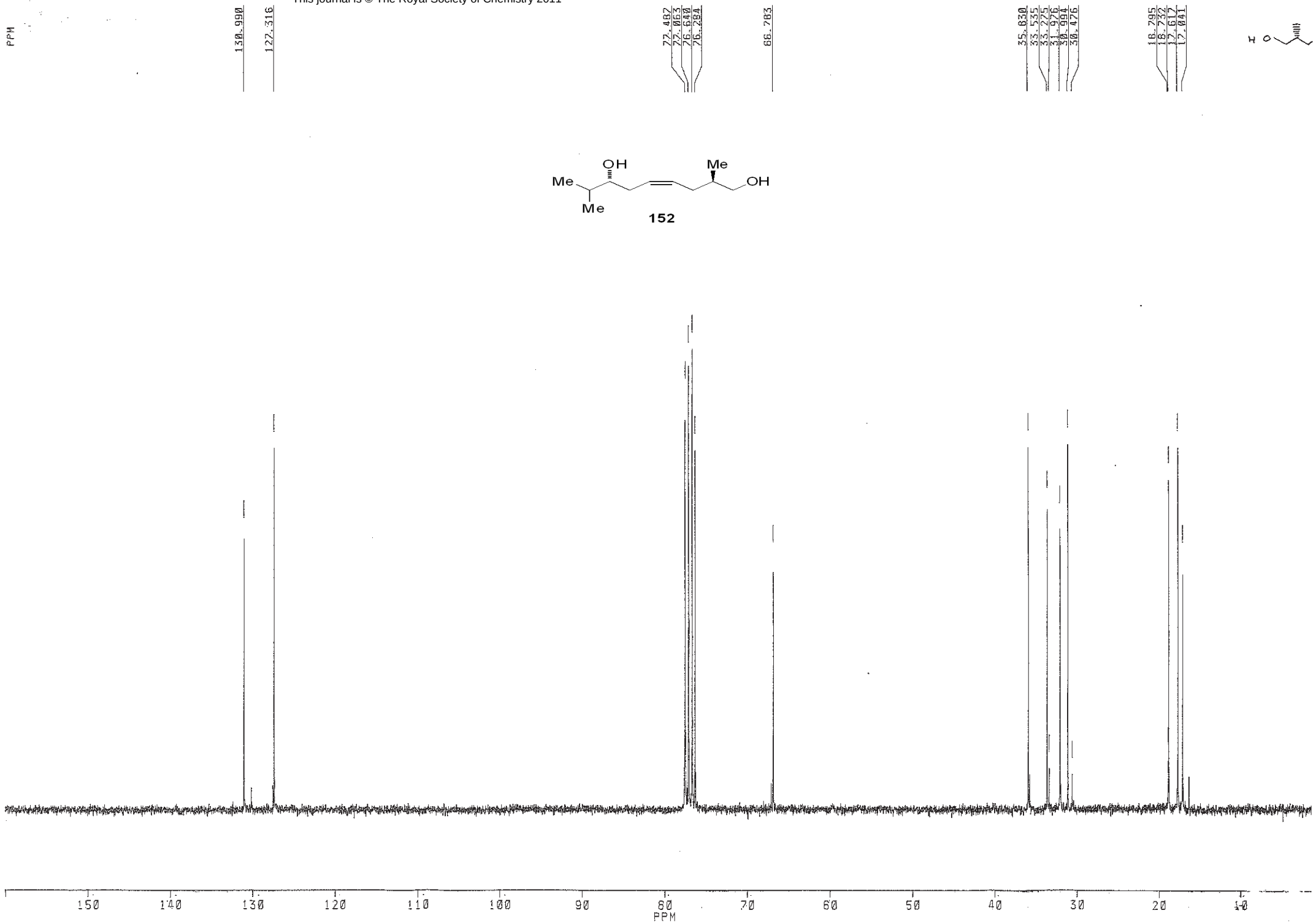


Electronic Supplementary Material (ESI) for Organdic and Biomolecular Chemistry

S.Stanway
SS585
cdcl3
101

152





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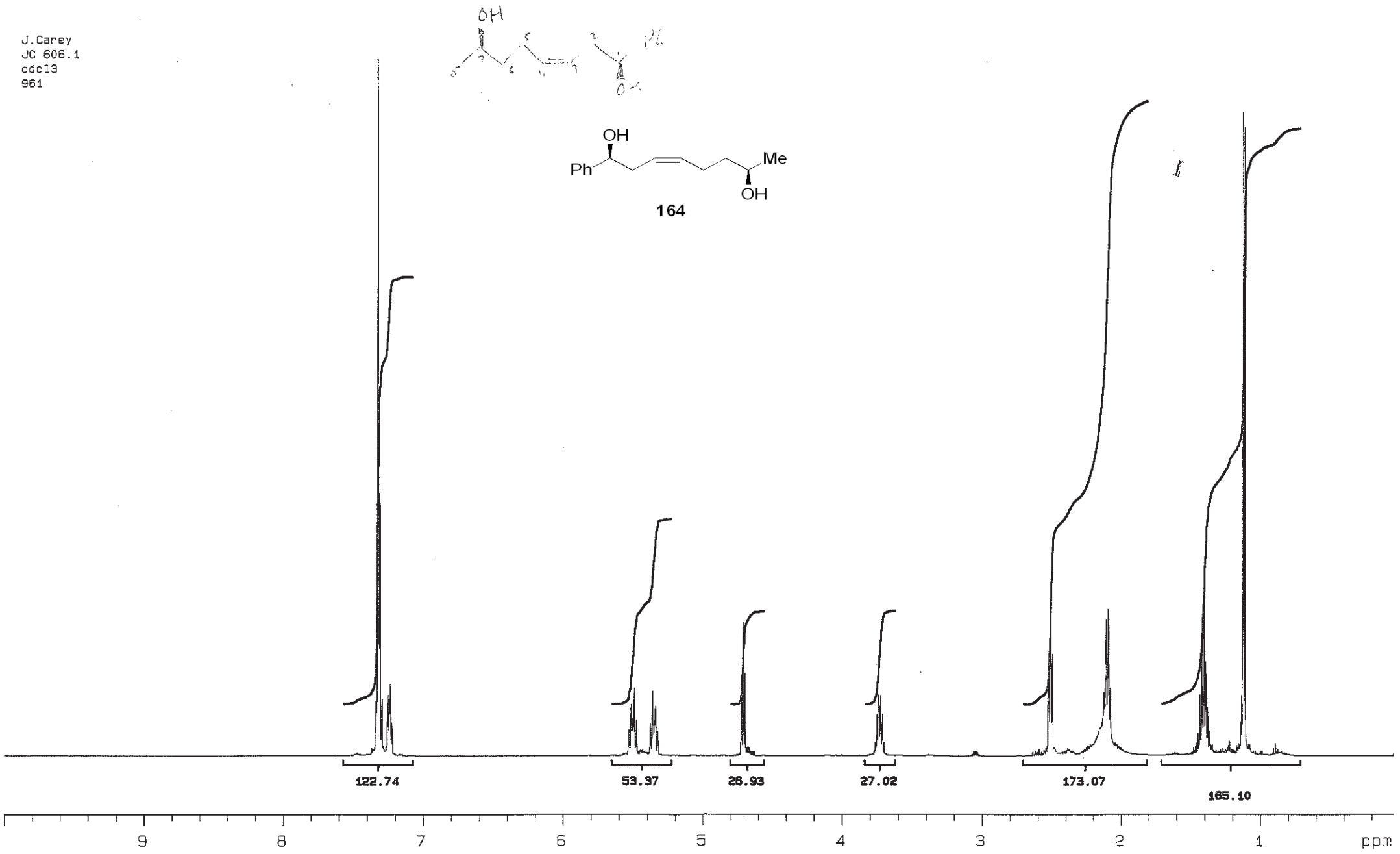
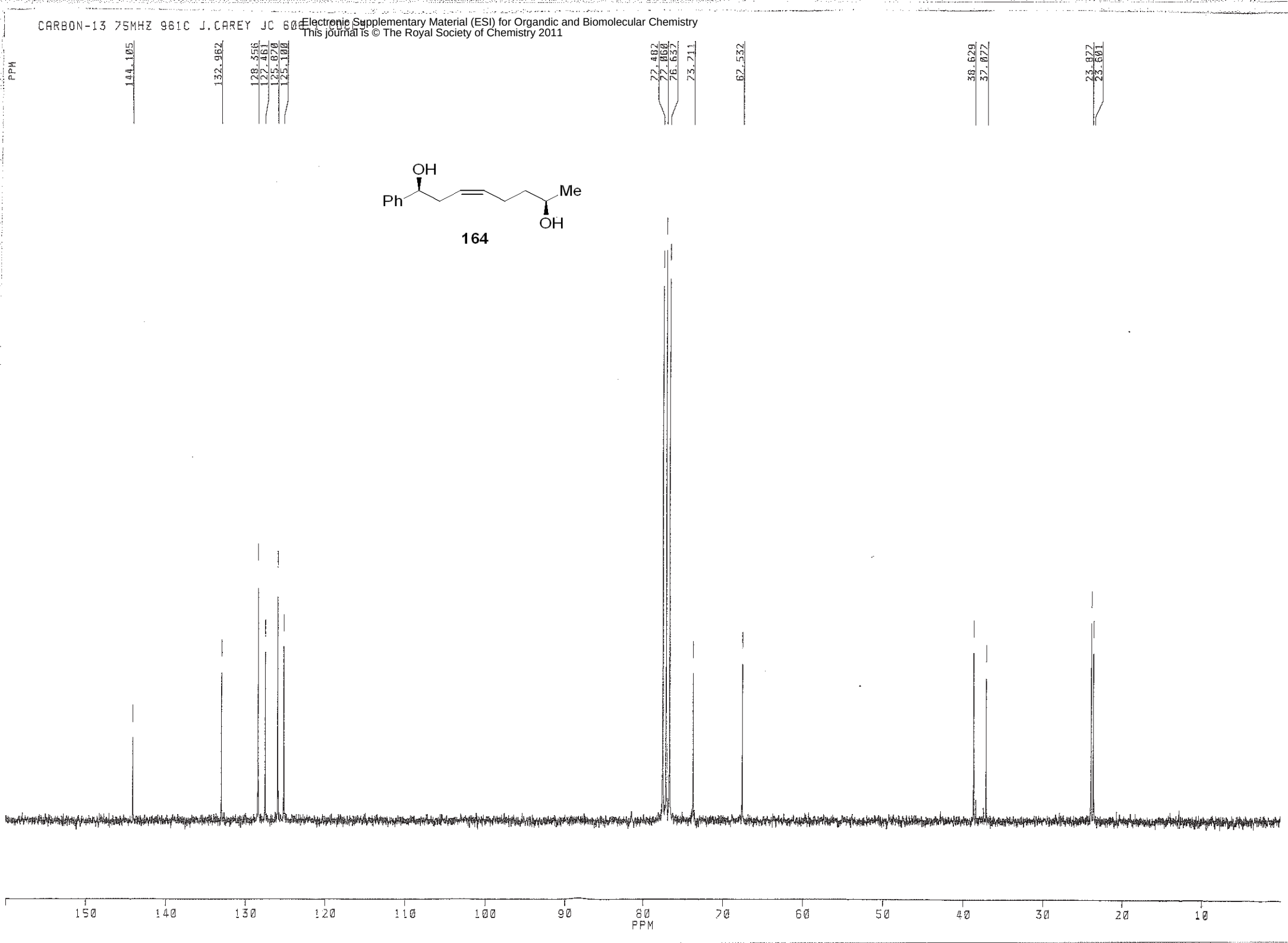
Electronic Supplementary Material (ESI) for Organdic and Biomolecular Chemistry

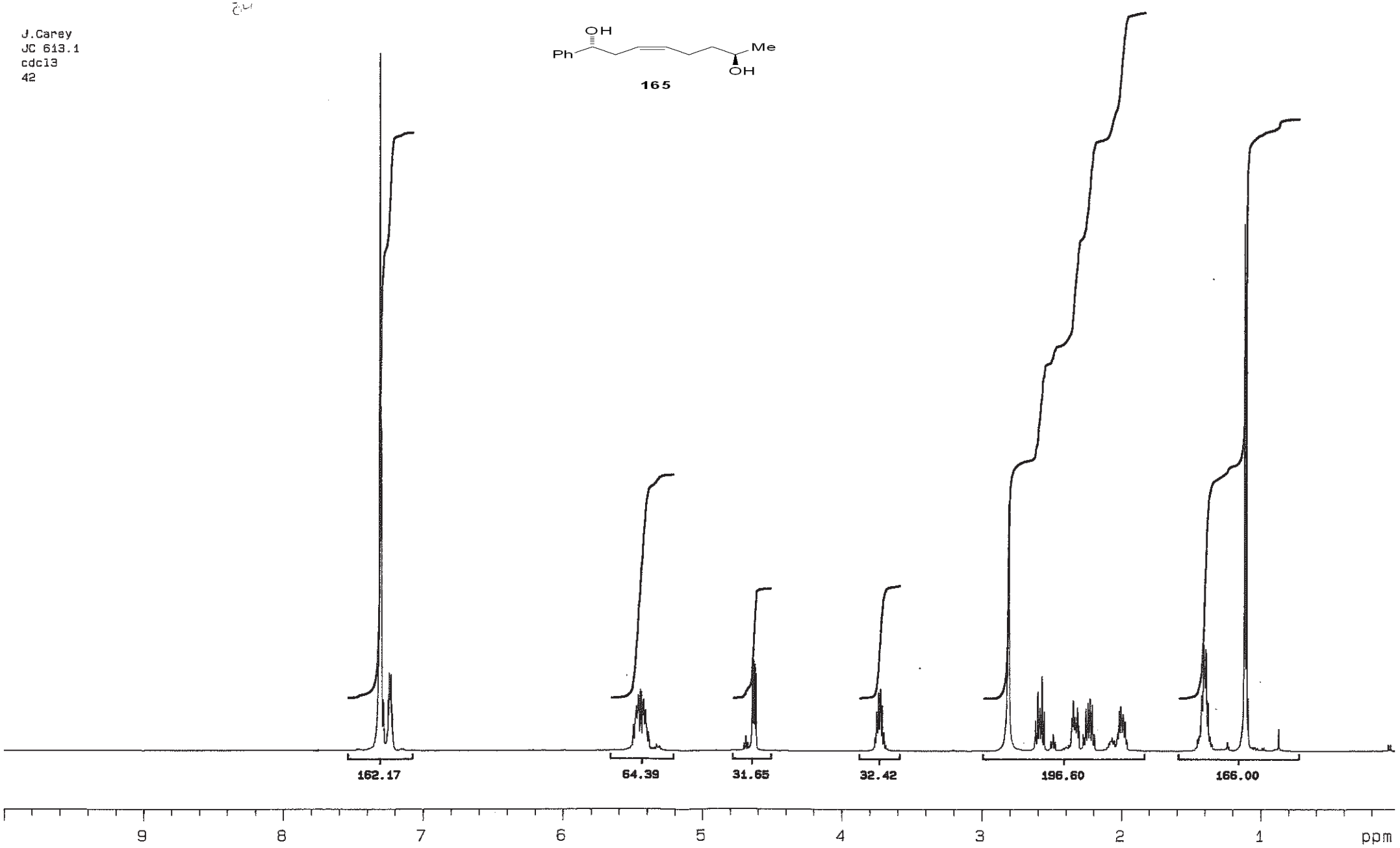




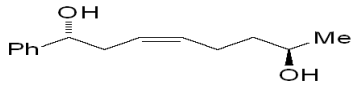
165

J.Carey
JC 613.1
cdcl3
42

165



Electronic Supplementary Material (ESI) for Organdic and Biomolecular Chemistry



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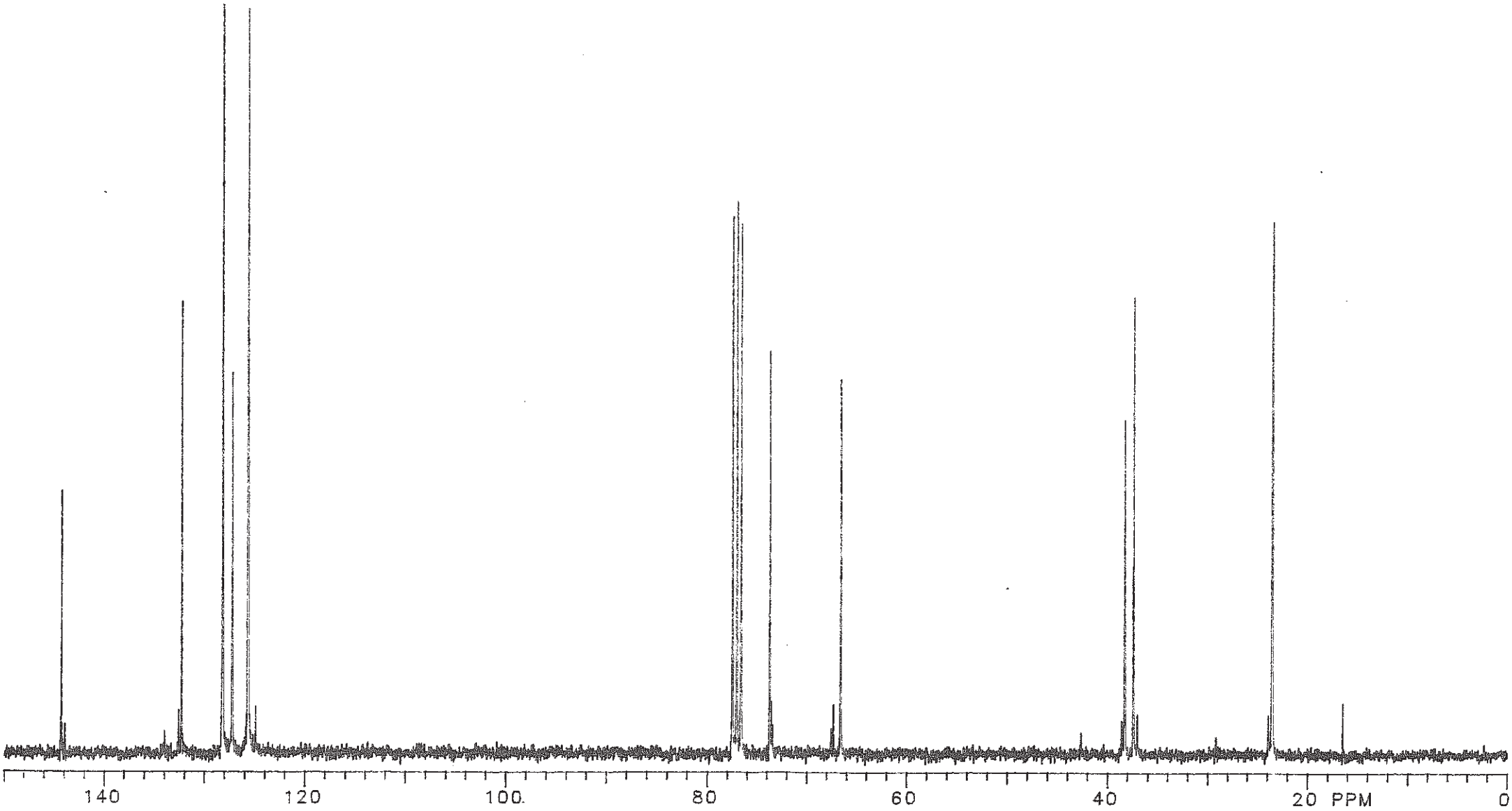
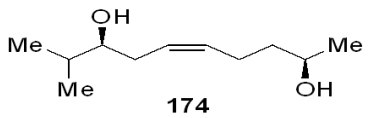


J.Carey
JC 629.1
cdcl3
222



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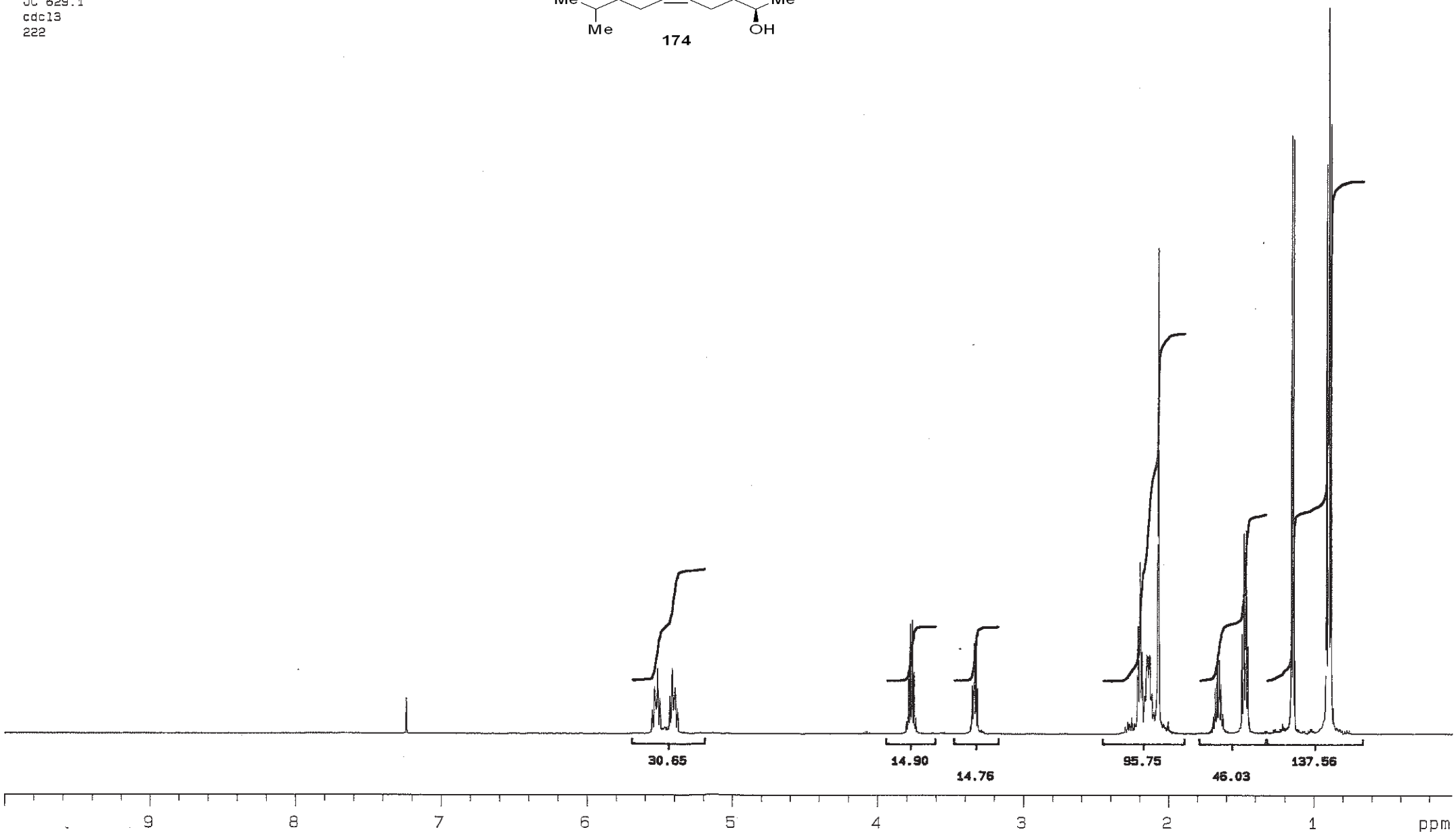

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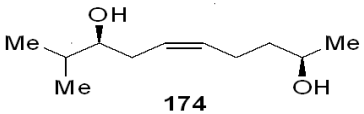
17.514



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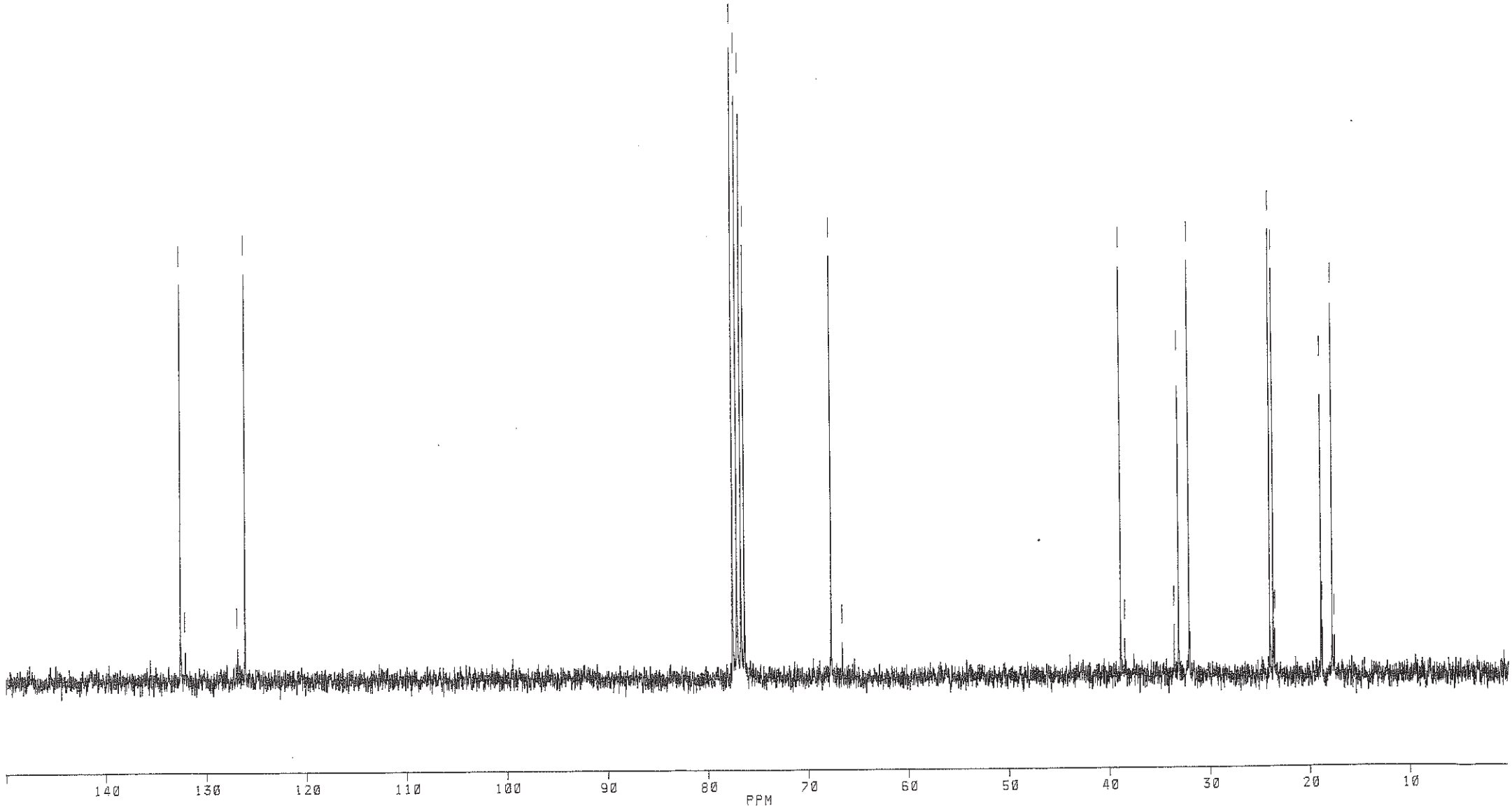
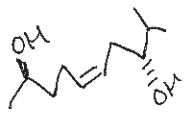


Electronic Supplementary Material (ESI) for Organdic and Biomolecular Chemistry

J.Carey
JC 640.1
cdcl3
487



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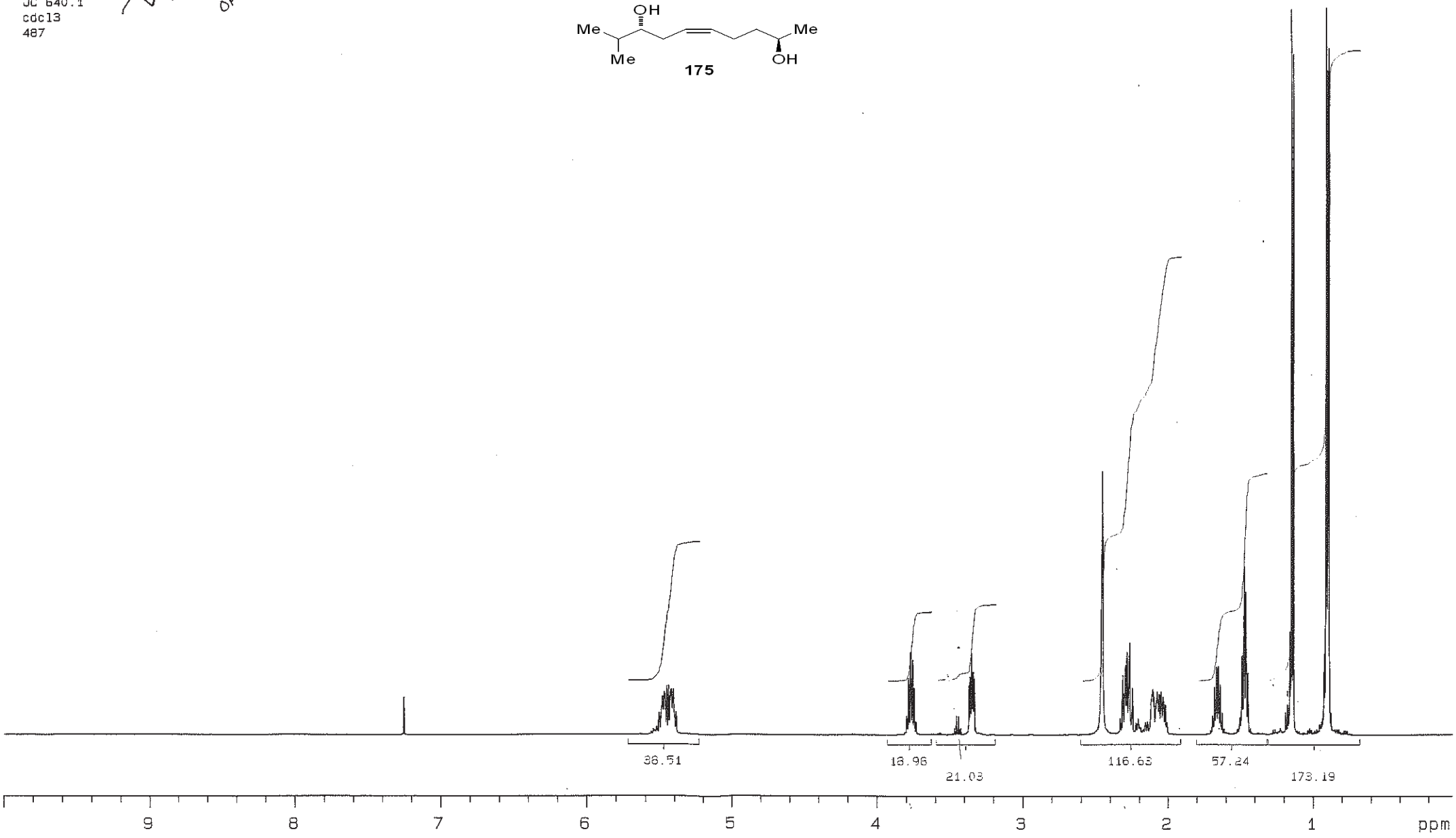

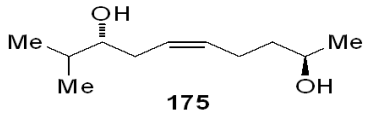

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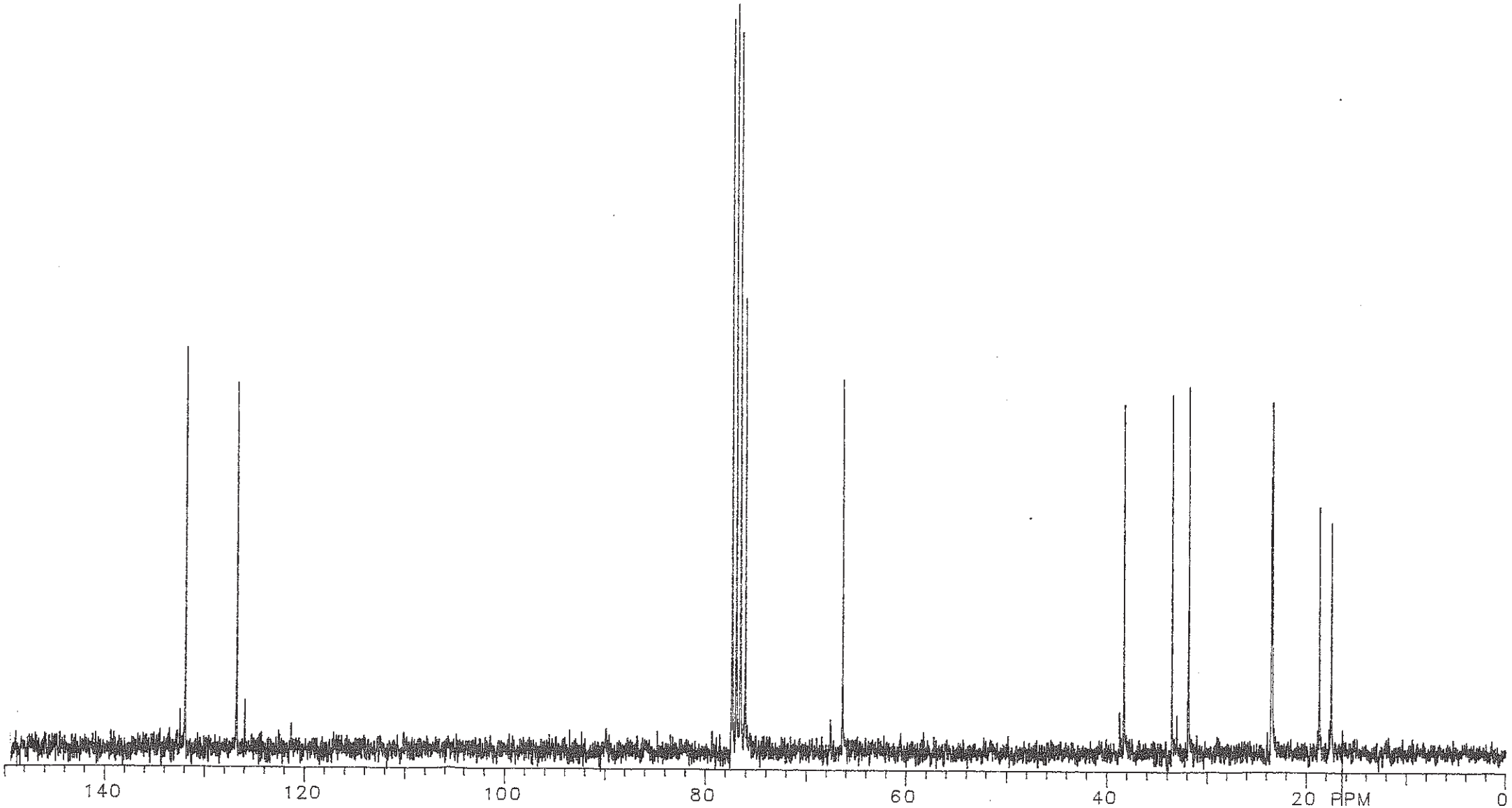
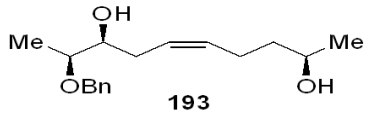


Electronic Supplementary Material (ESI) for Organdic and Biomolecular Chemistry

J.Carey
JC 650.1
cdcl3
660



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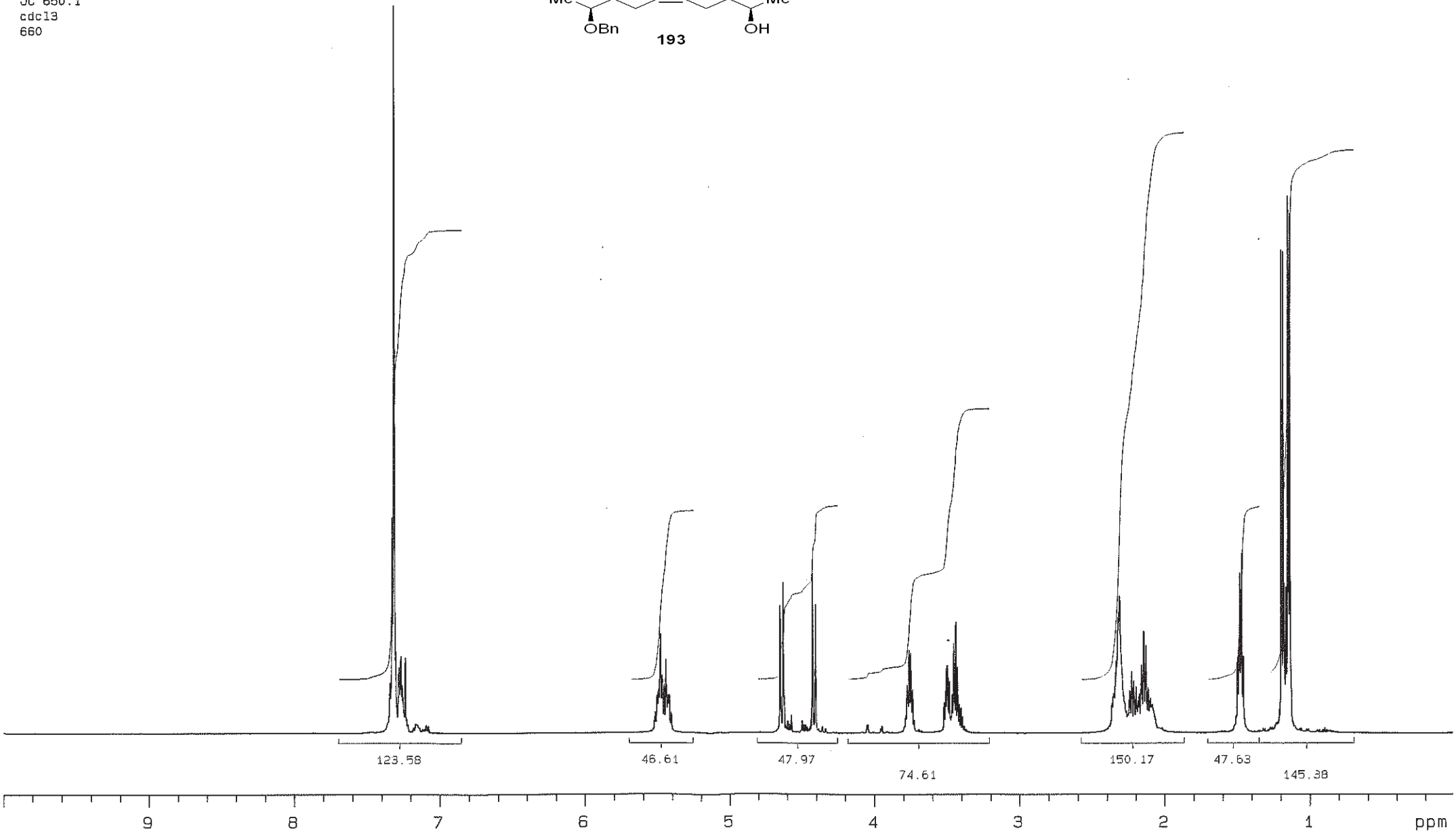

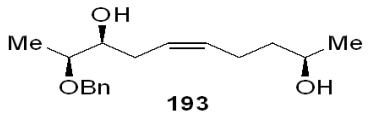

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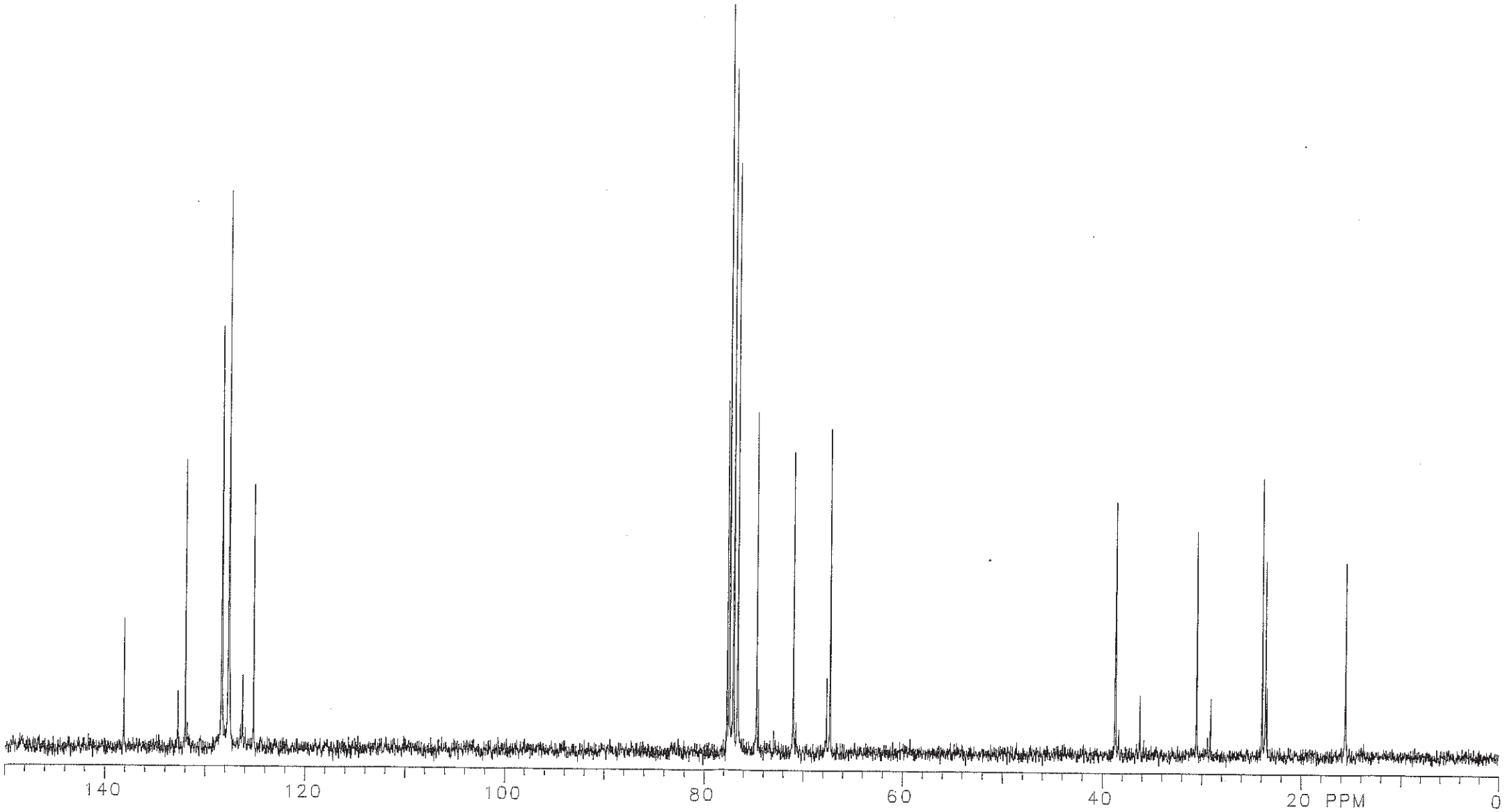
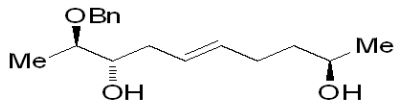


J.Carey
JC 668.2
cdcl3
280



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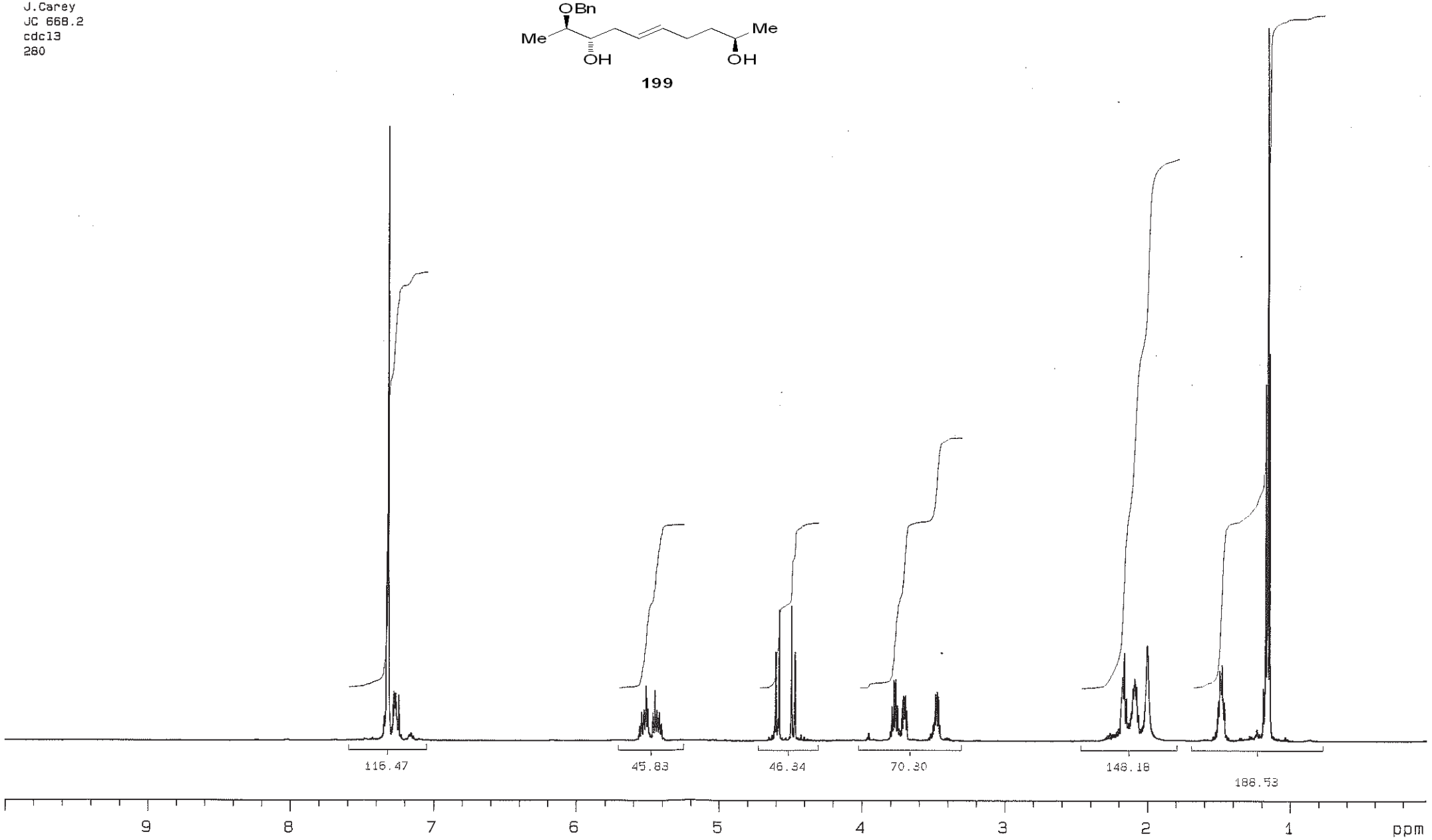

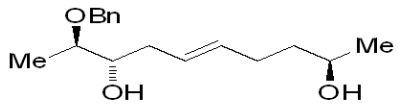

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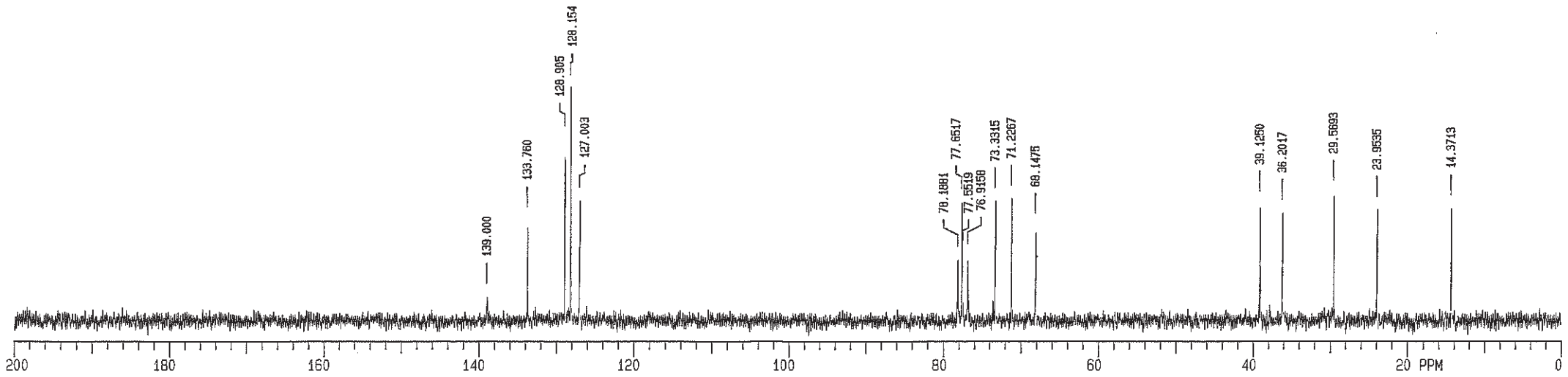

200