

Supporting Information

Synthesis of 2-Cyclohexenone Derivatives via Gold (I) -Catalyzed Hydrative Cyclization of 1,6-diynes

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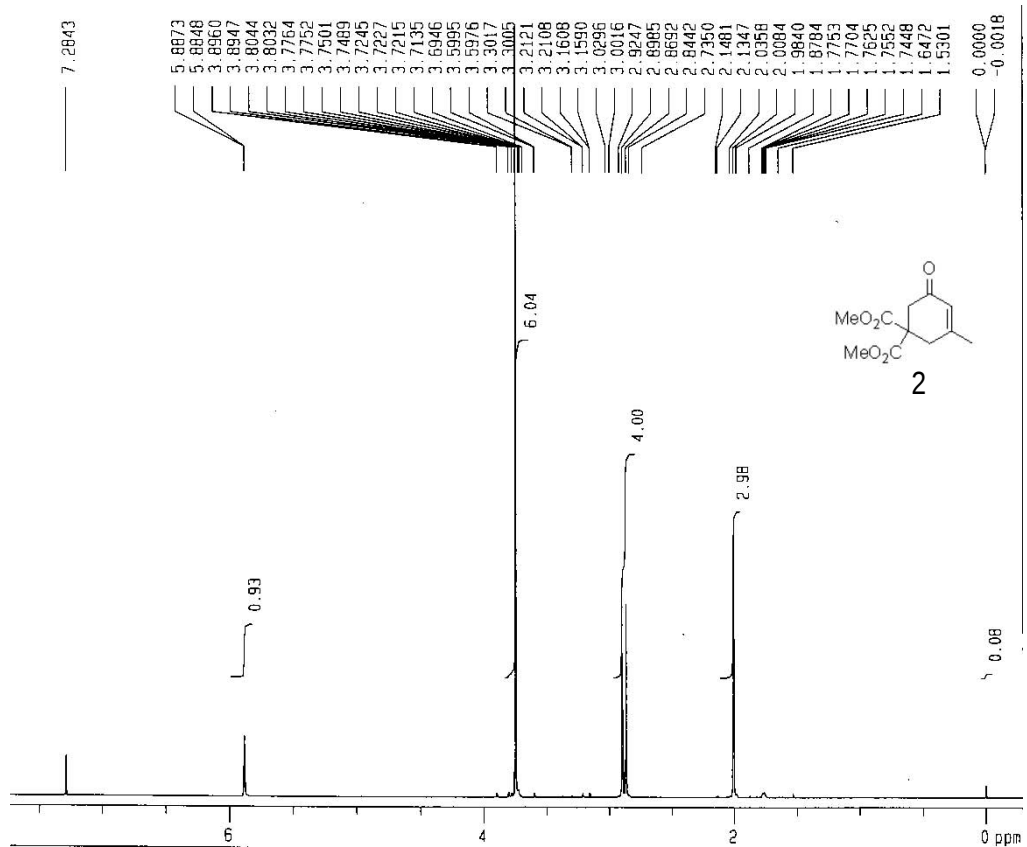
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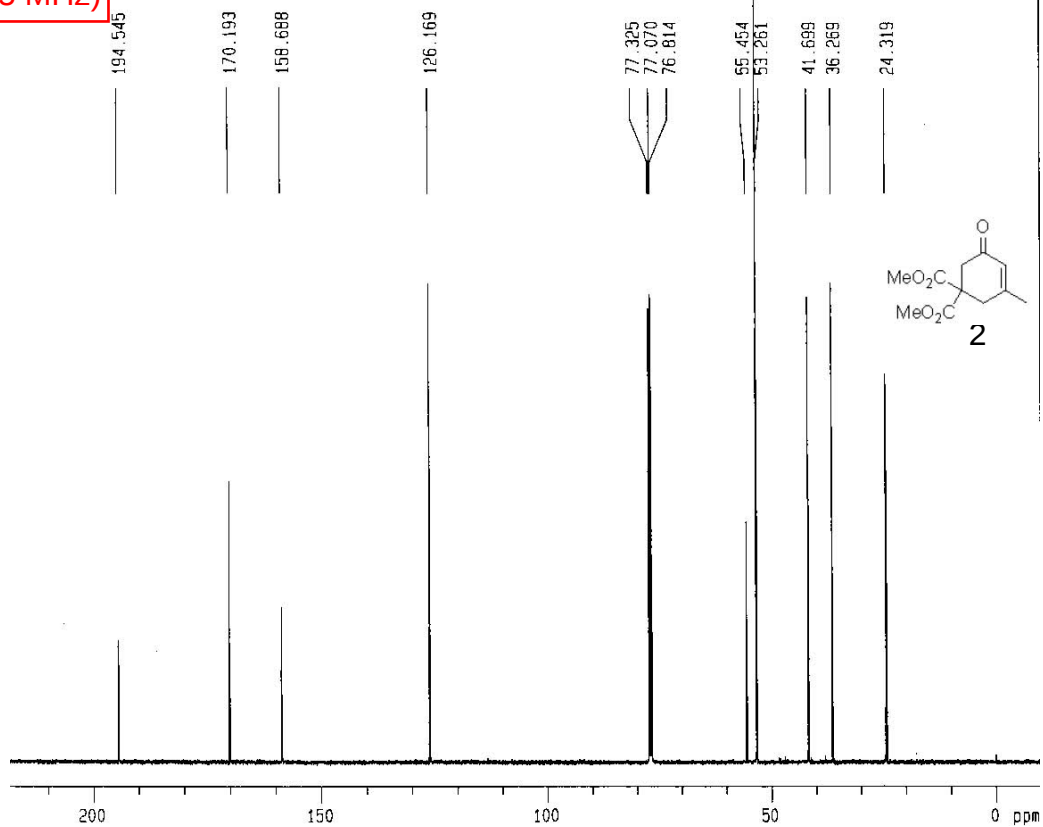
Copies of the ¹H (500 or 400 MHz), ¹³C (125 or 100 MHz) and ³¹P (201.7 MHz) spectra of all products are shown in this supporting information.

Compound 2	S1
Compound 4	S2
Compound 6	S4
Compound 8	S3
Compound 10	S5
Compound 12	S6
Compound 14	S7-S8
Compound 16	S9
Compound 18	S10
Compound 20	S11

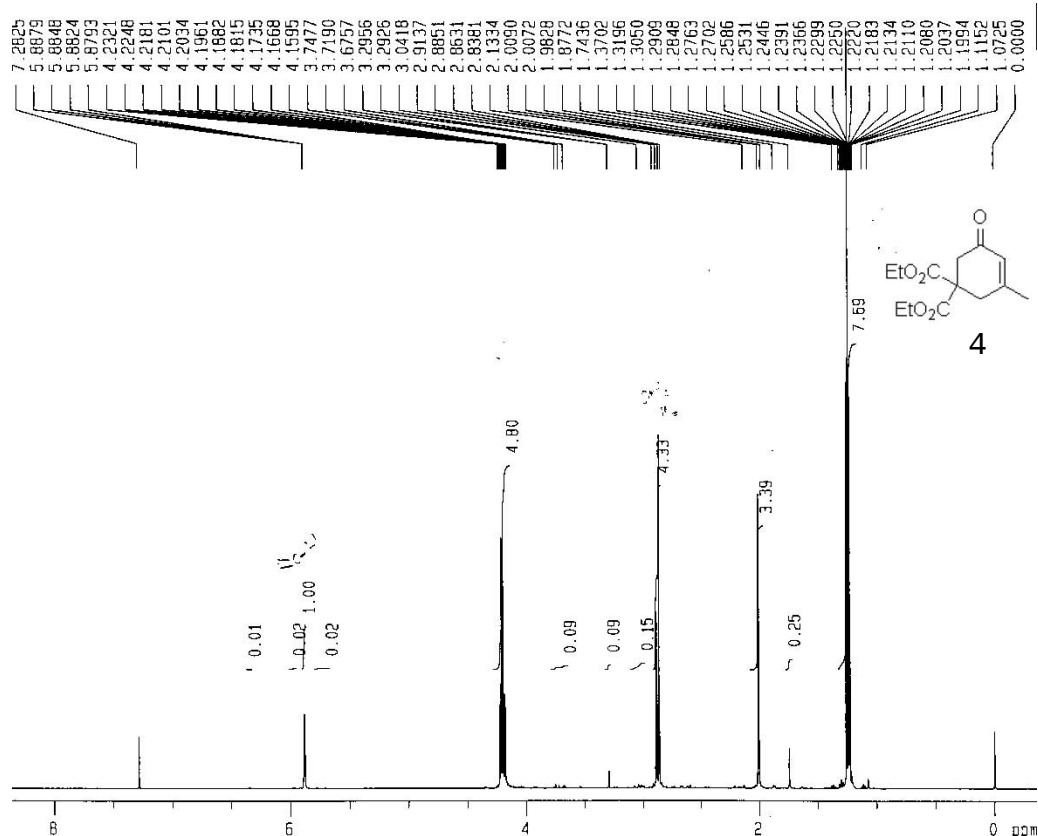
2-H (500 MHz)



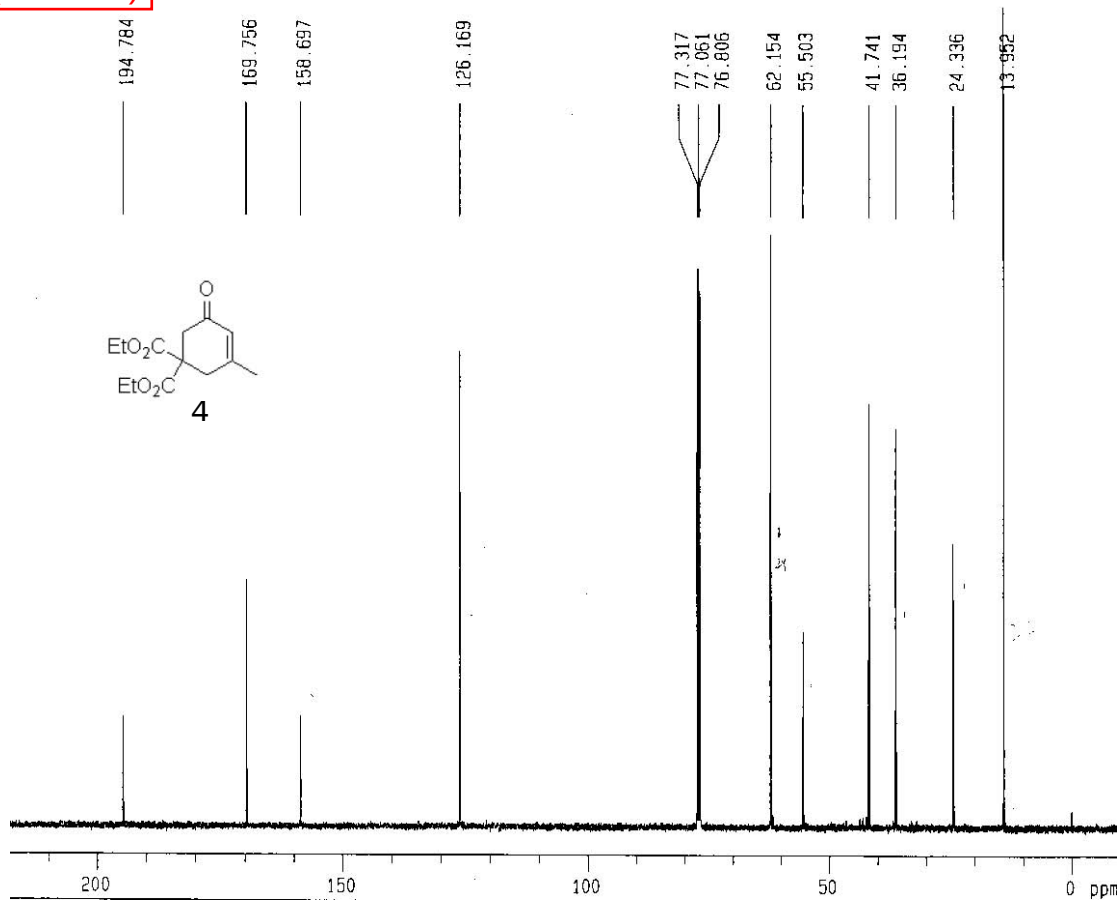
2-C(125 MHz)



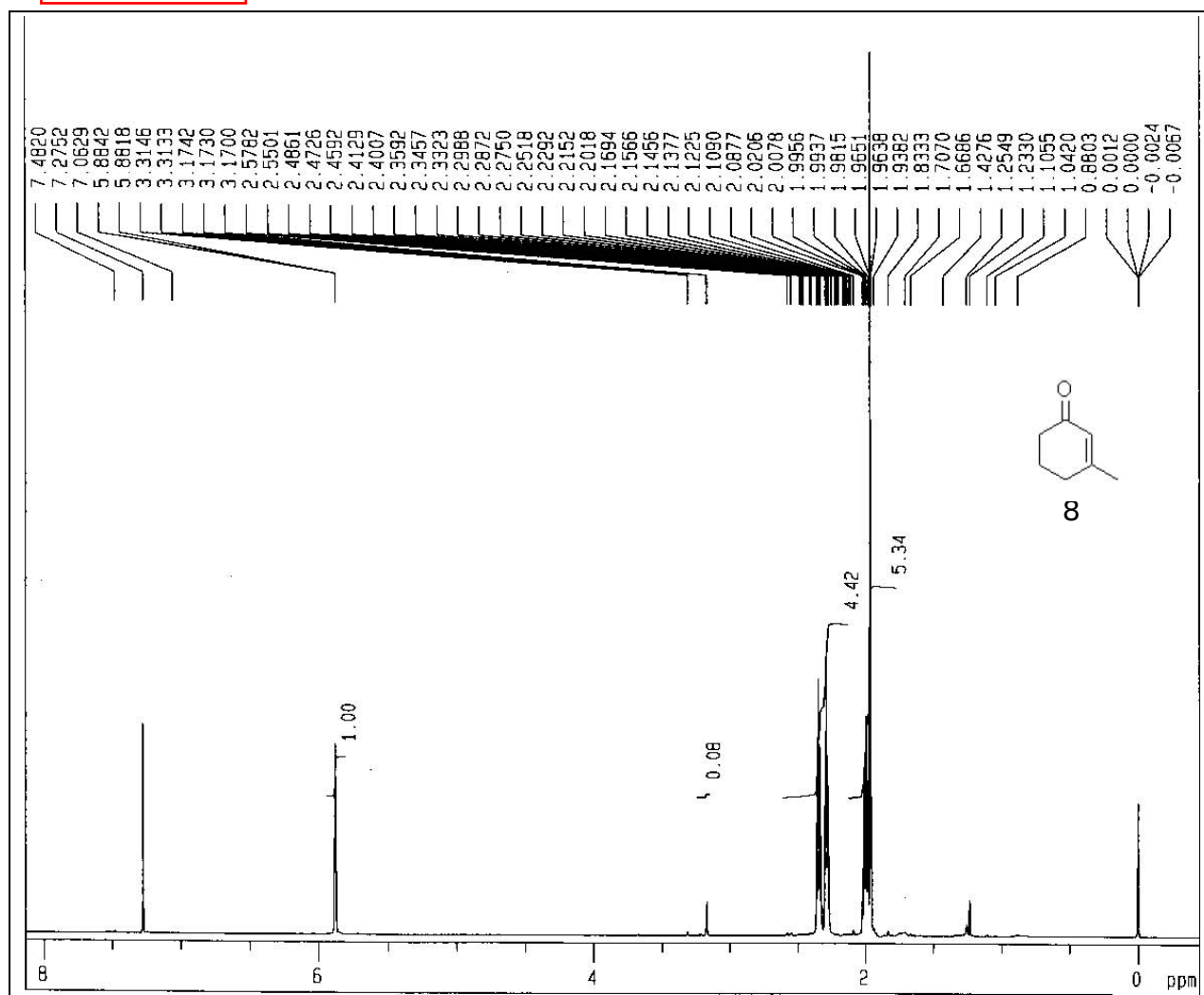
4-H(500 MHz)



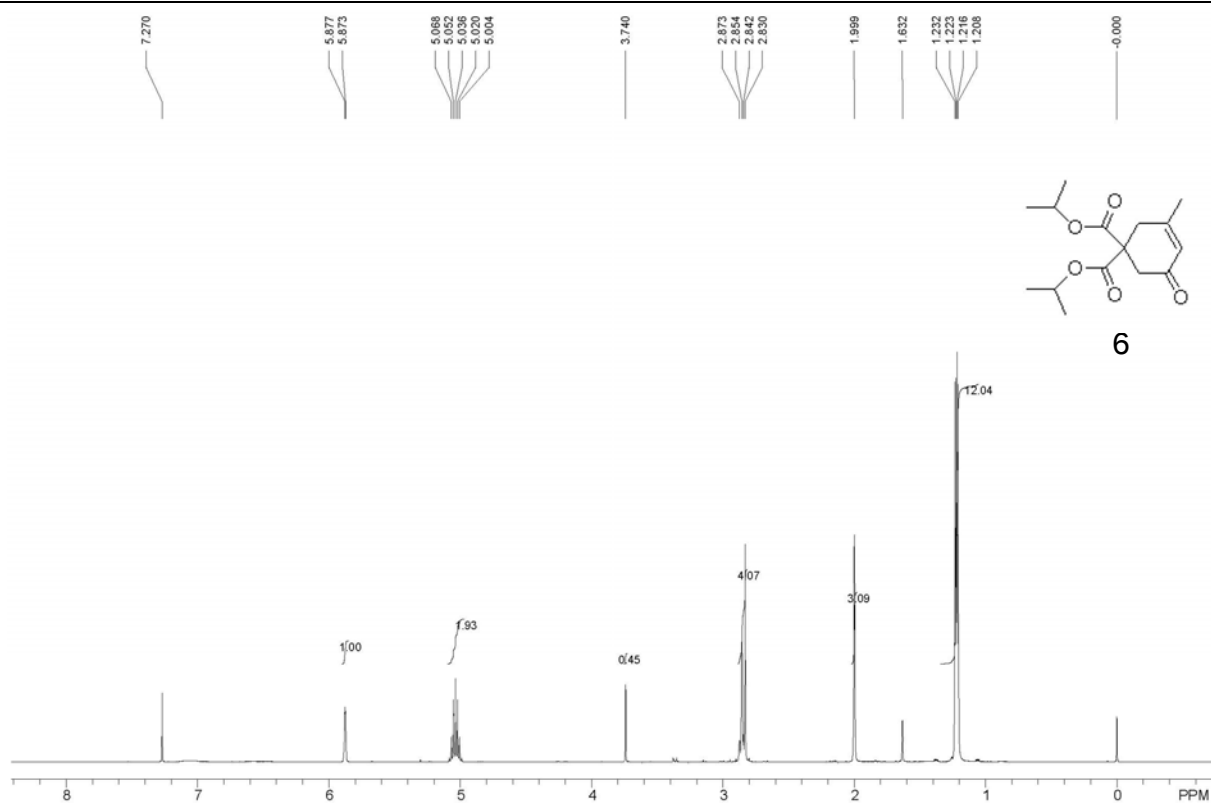
4-C(500 MHz)



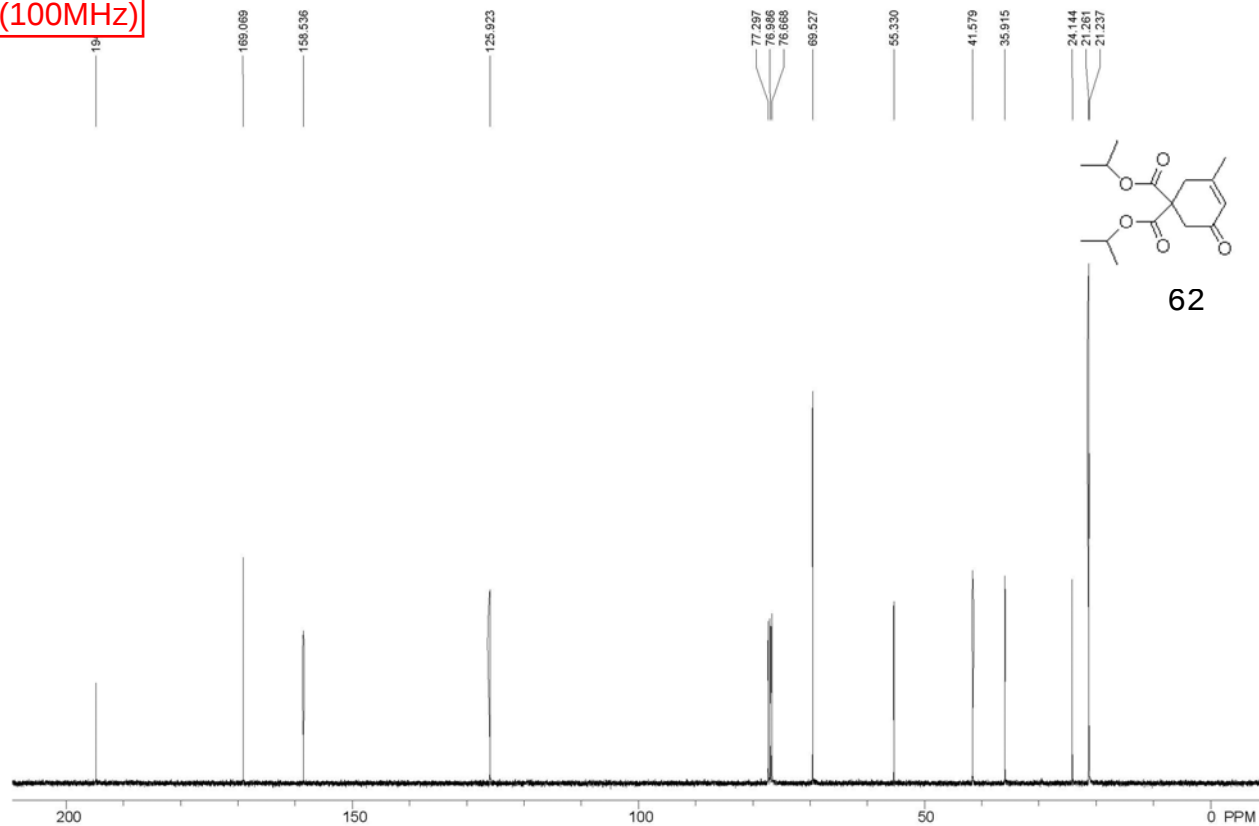
8-H(500MHz)



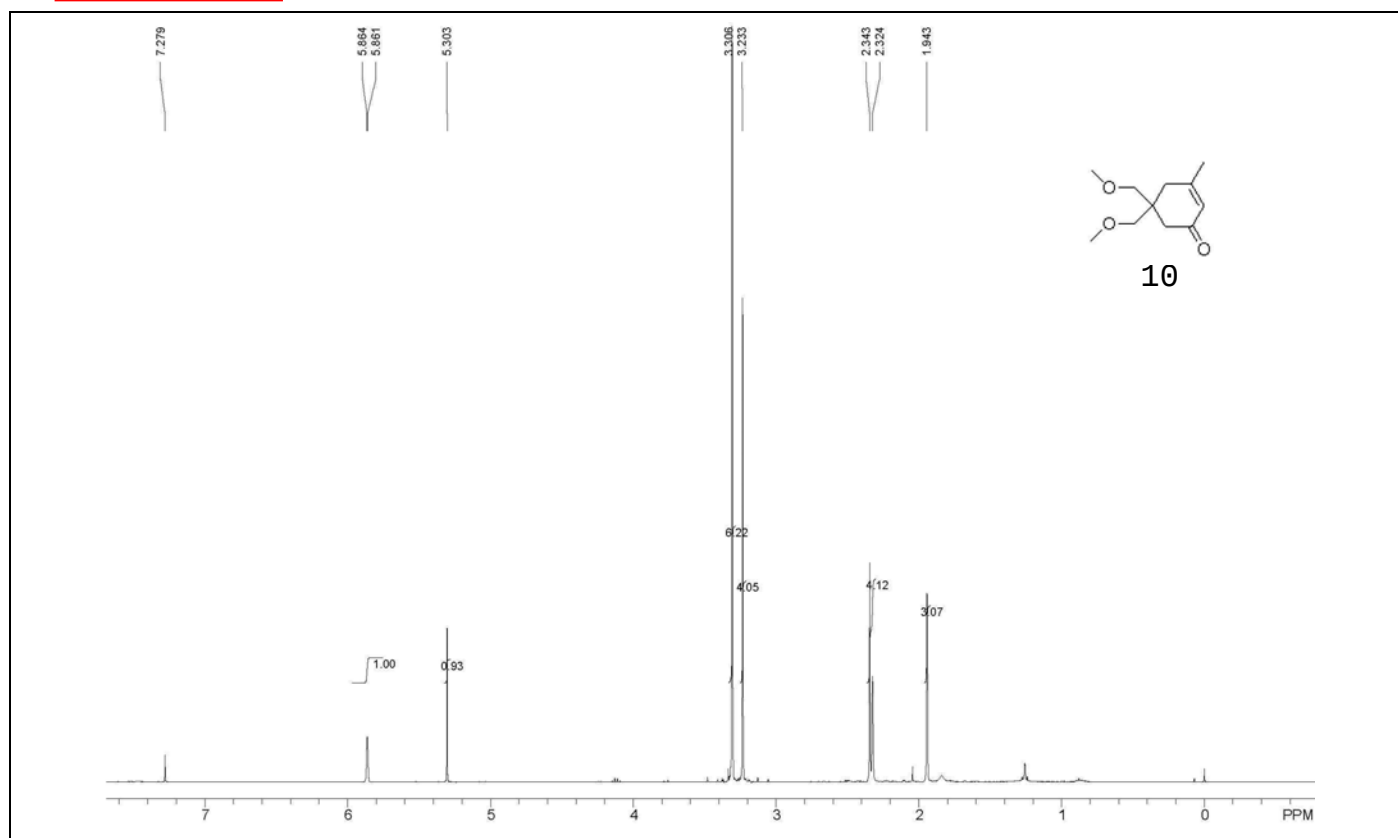
6-H(400MHz)



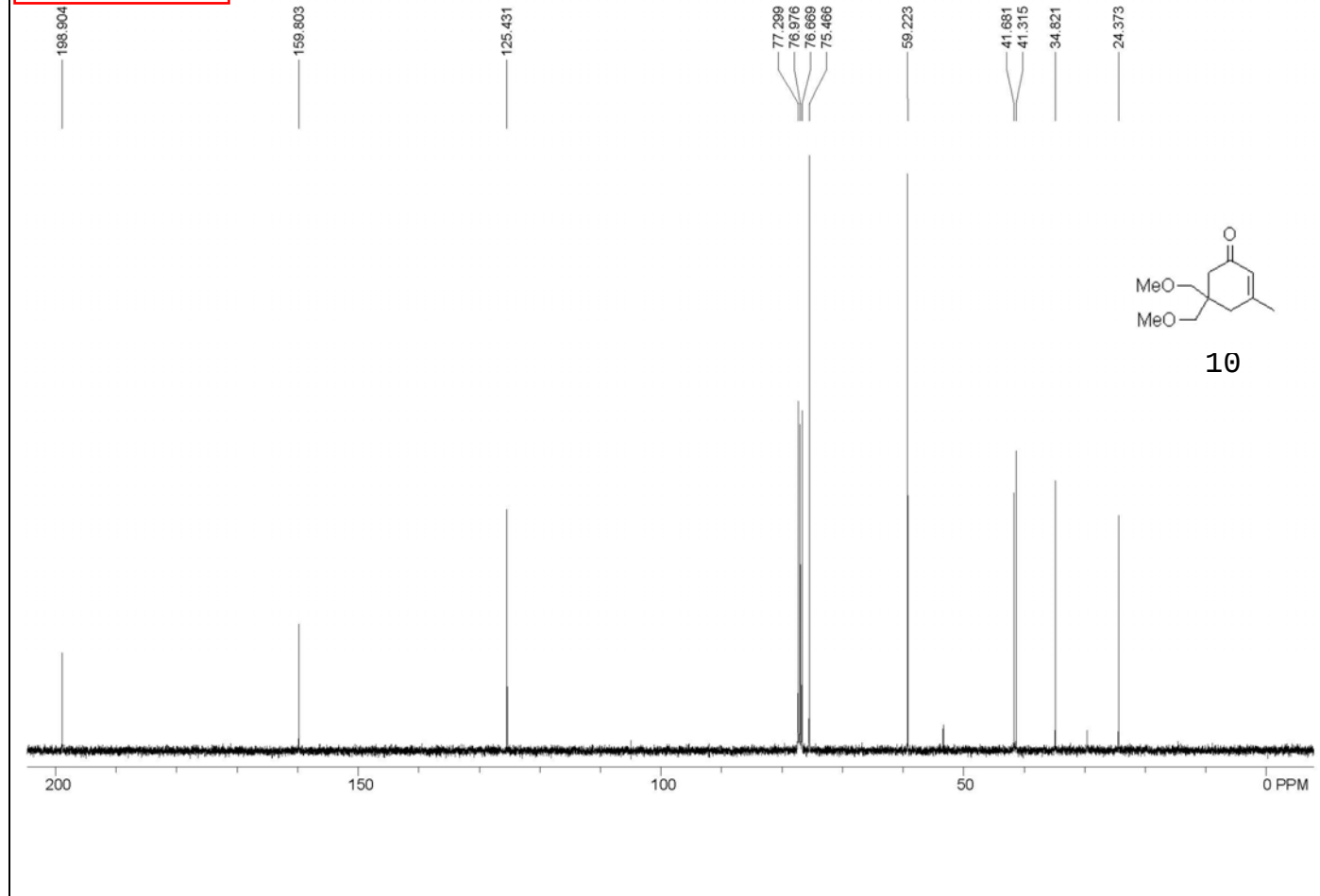
6-H(100MHz)



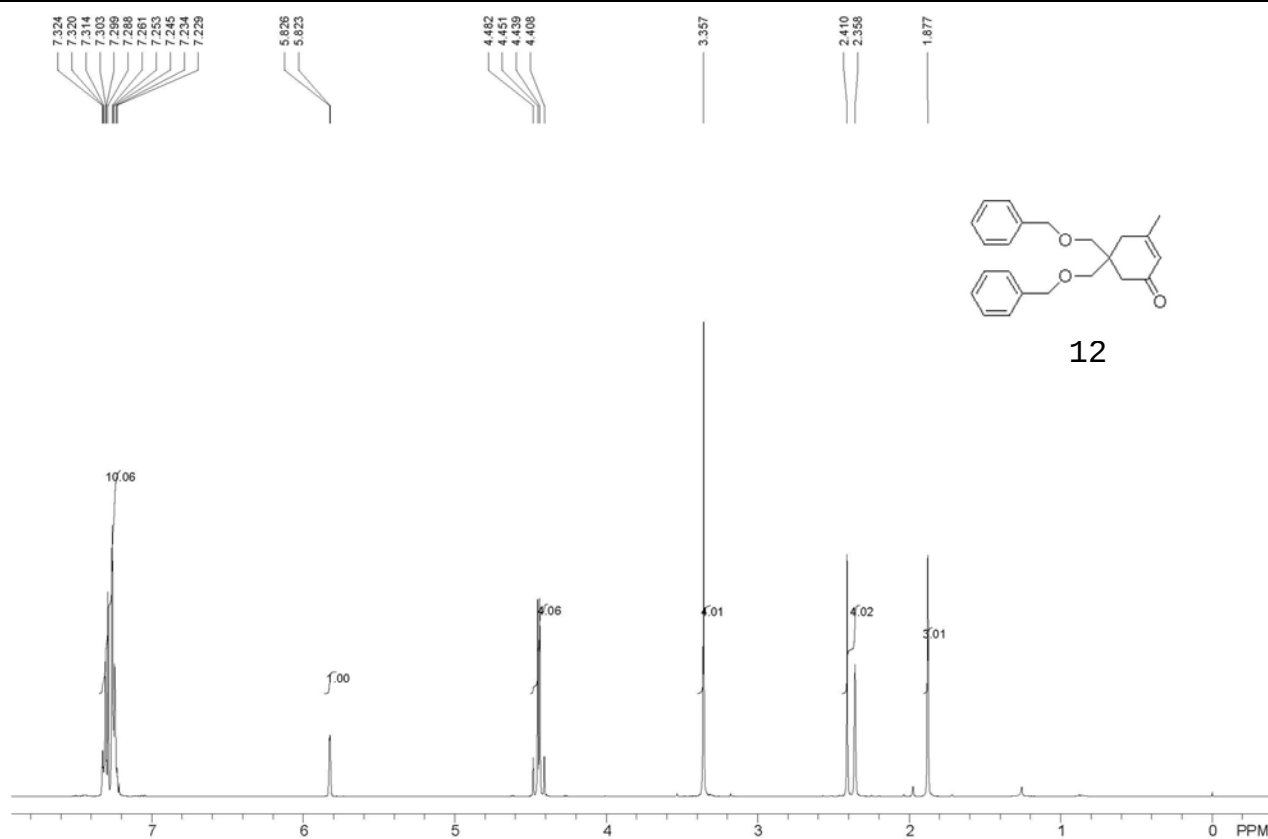
10-H(400 MHz)



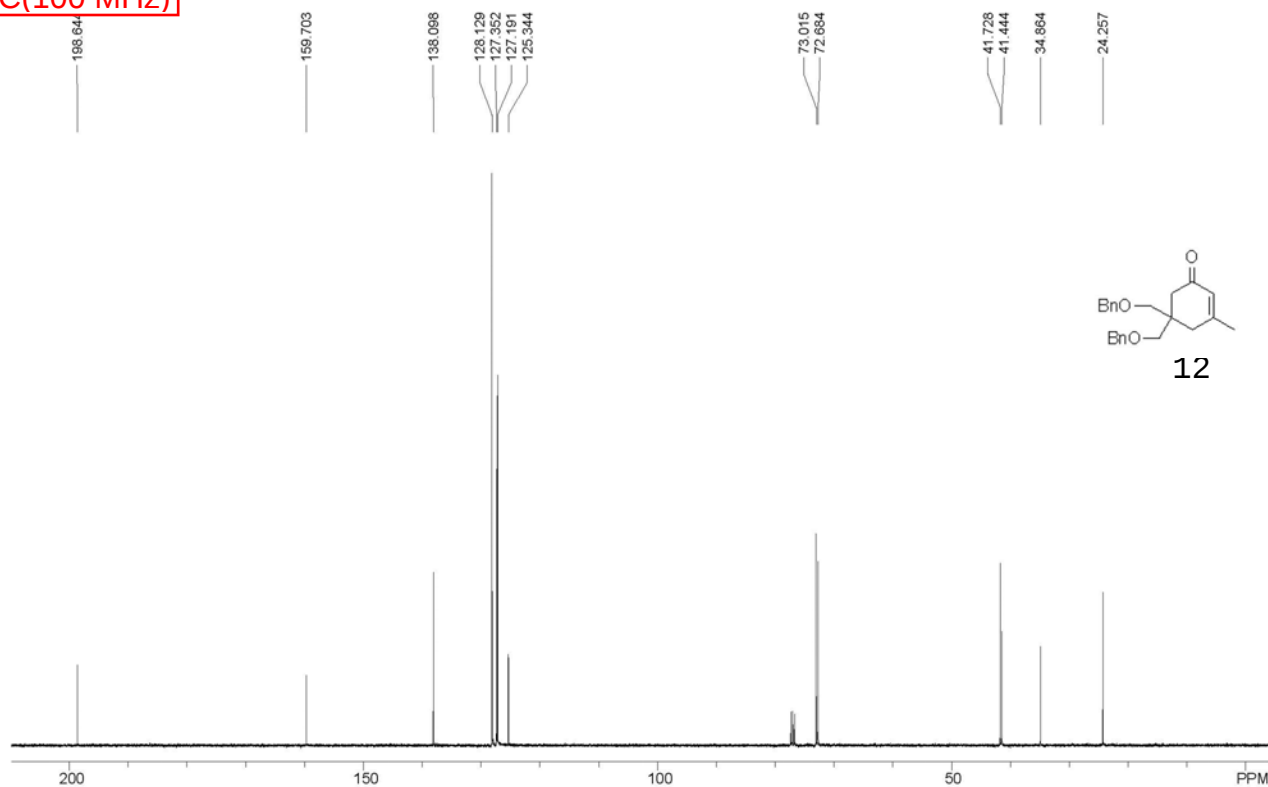
10-C(100 MHz)



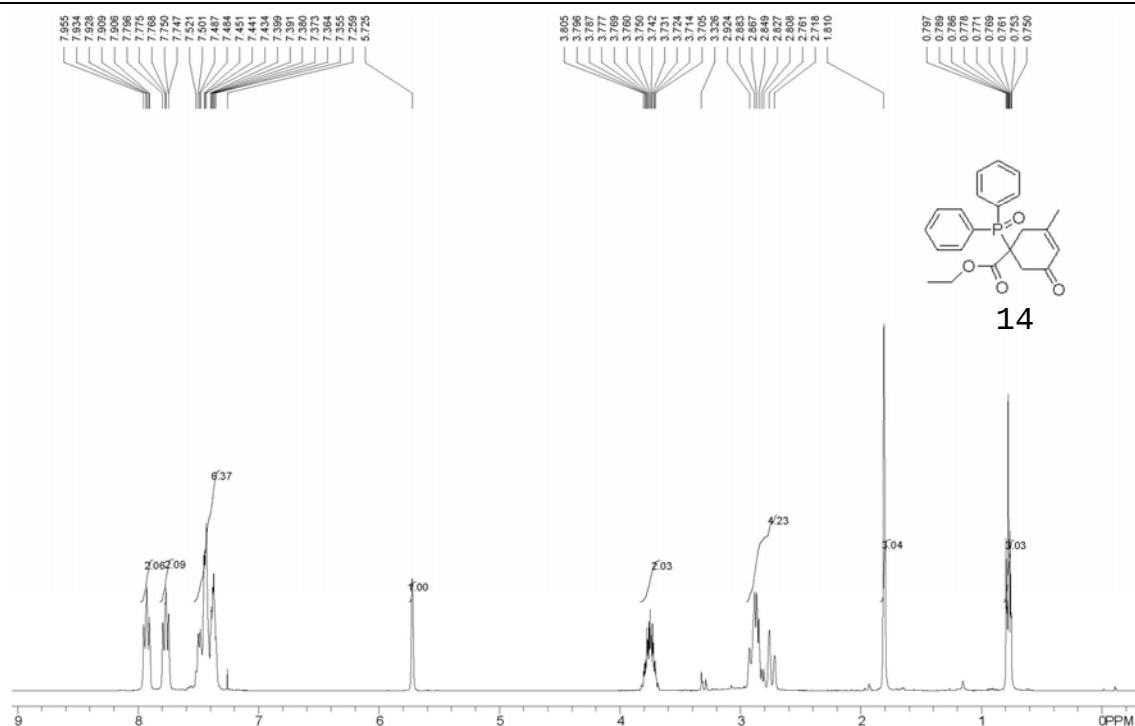
12-H(400 MHz)



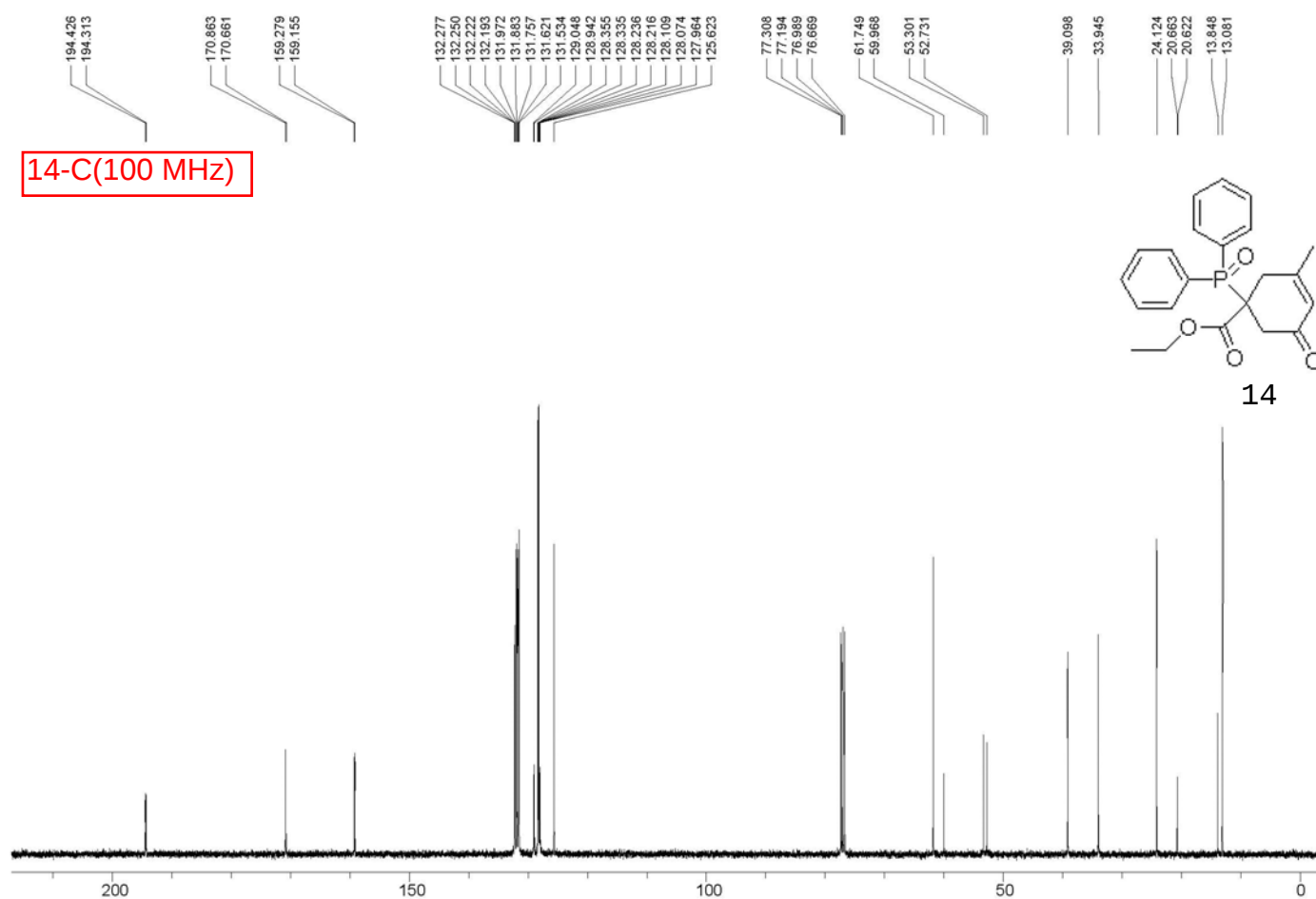
12-C(100 MHz)



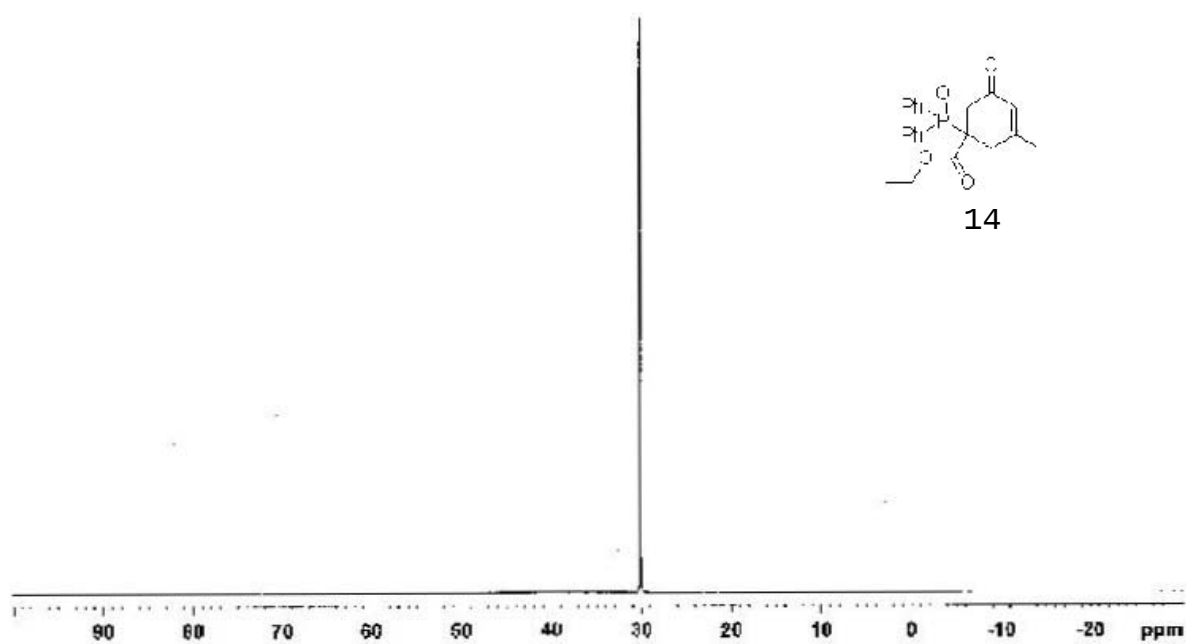
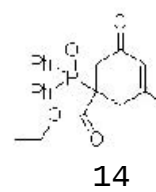
14-H(400 MHz)



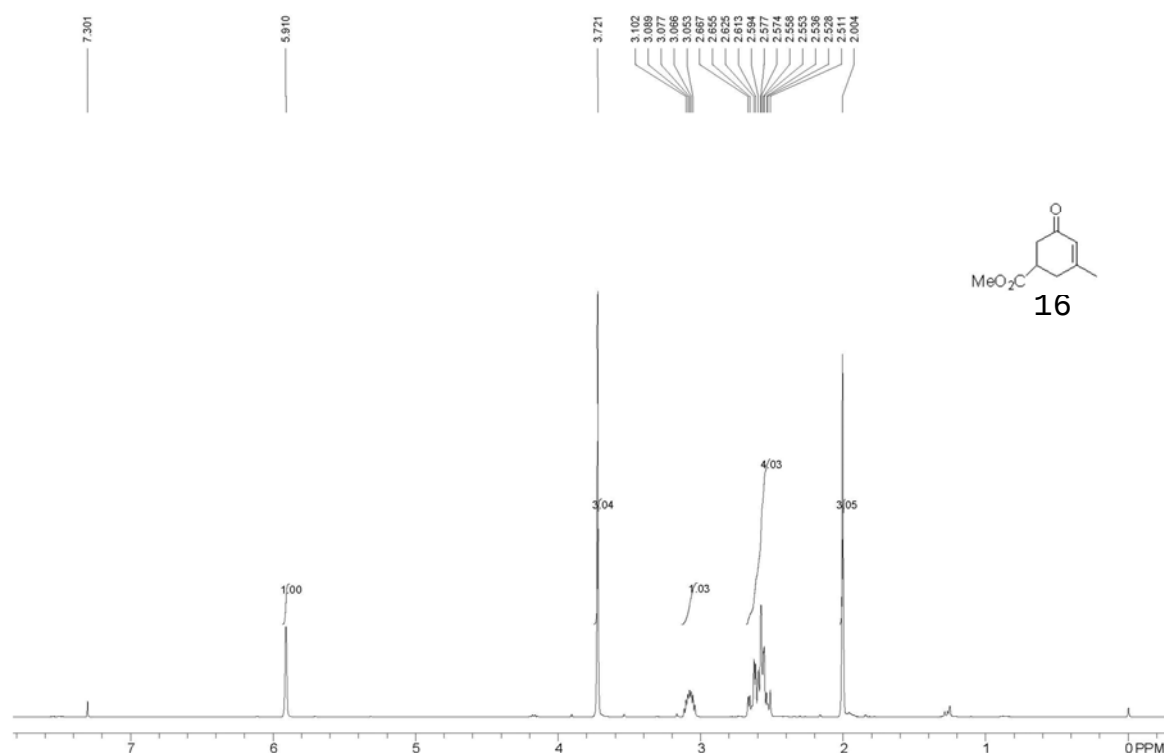
14-C(100 MHz)



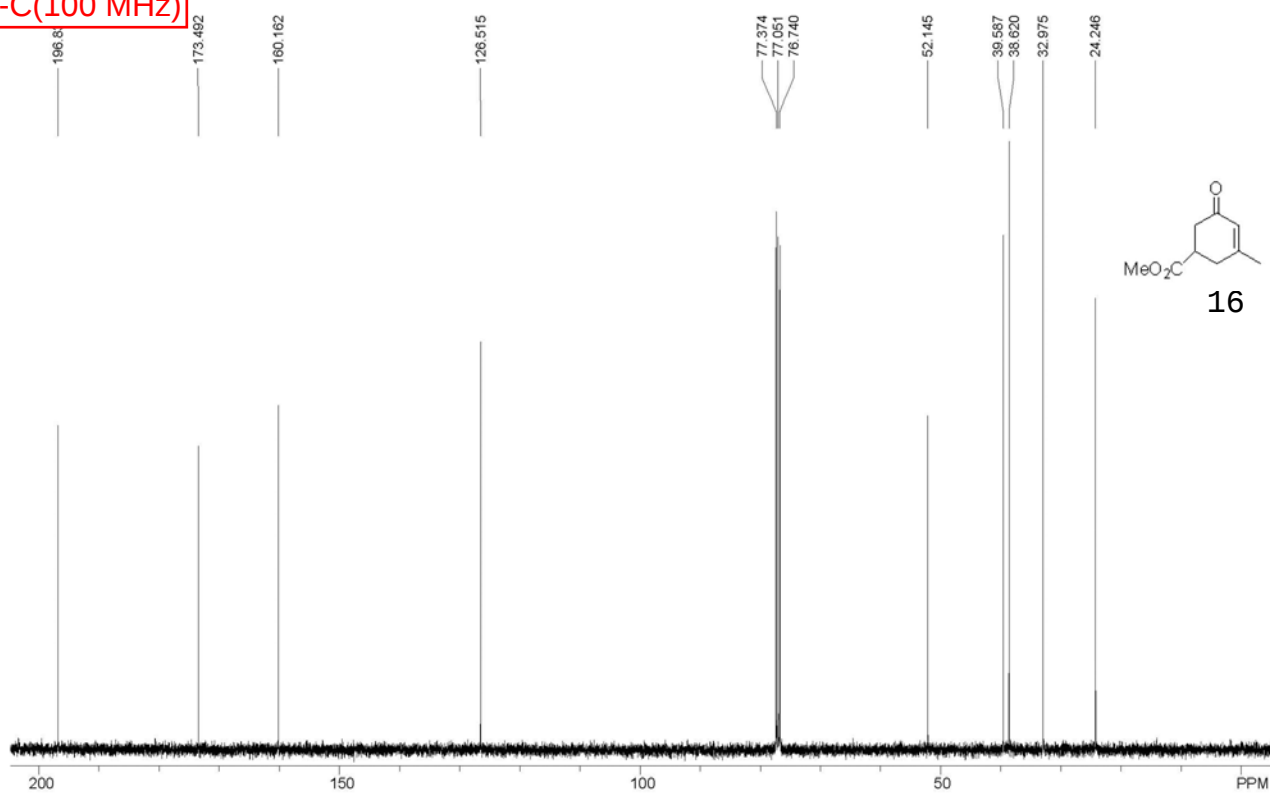
14-P(201.7 MHz)



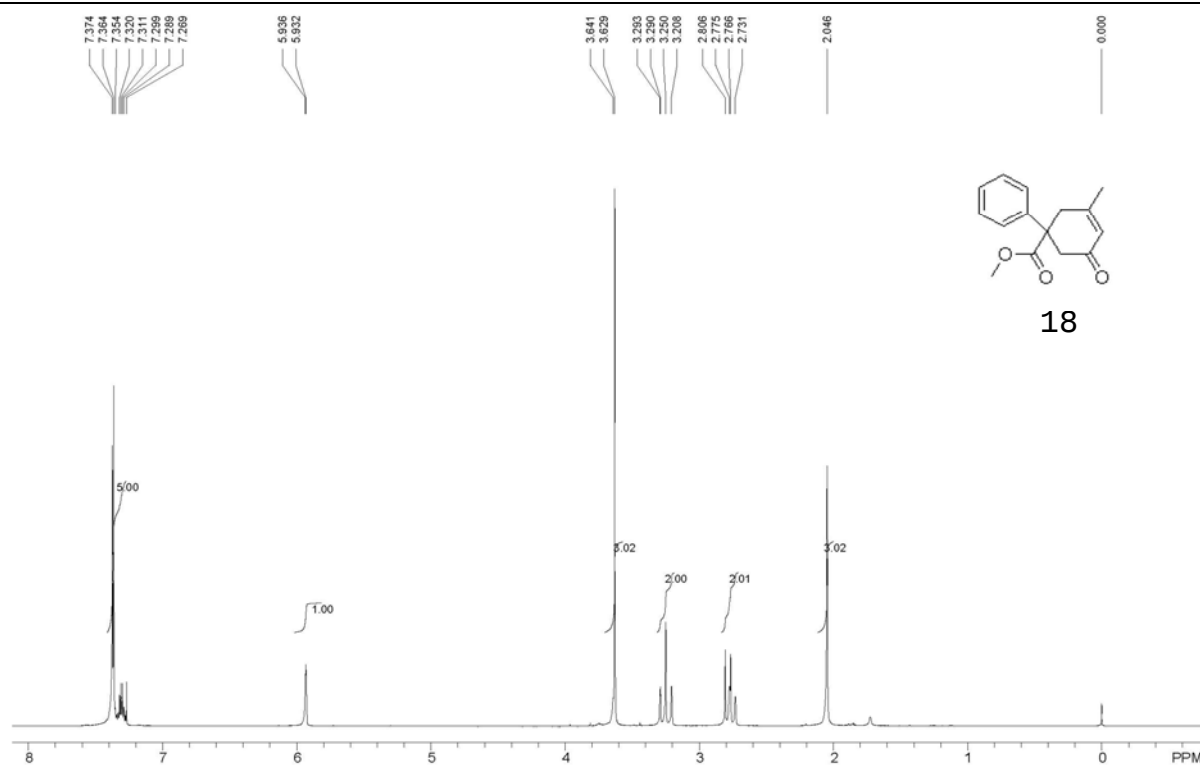
16-H (400 MHz)



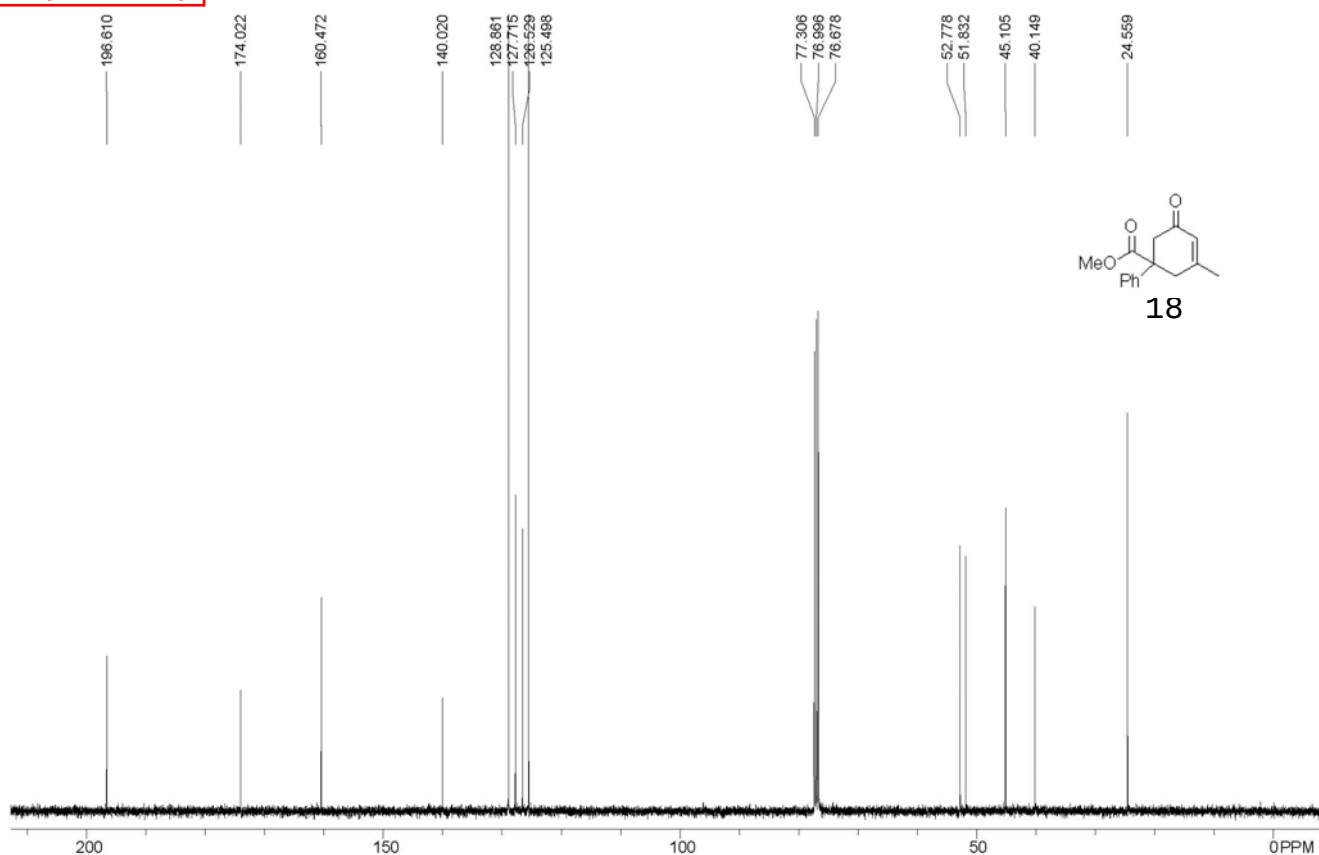
16-C(100 MHz)



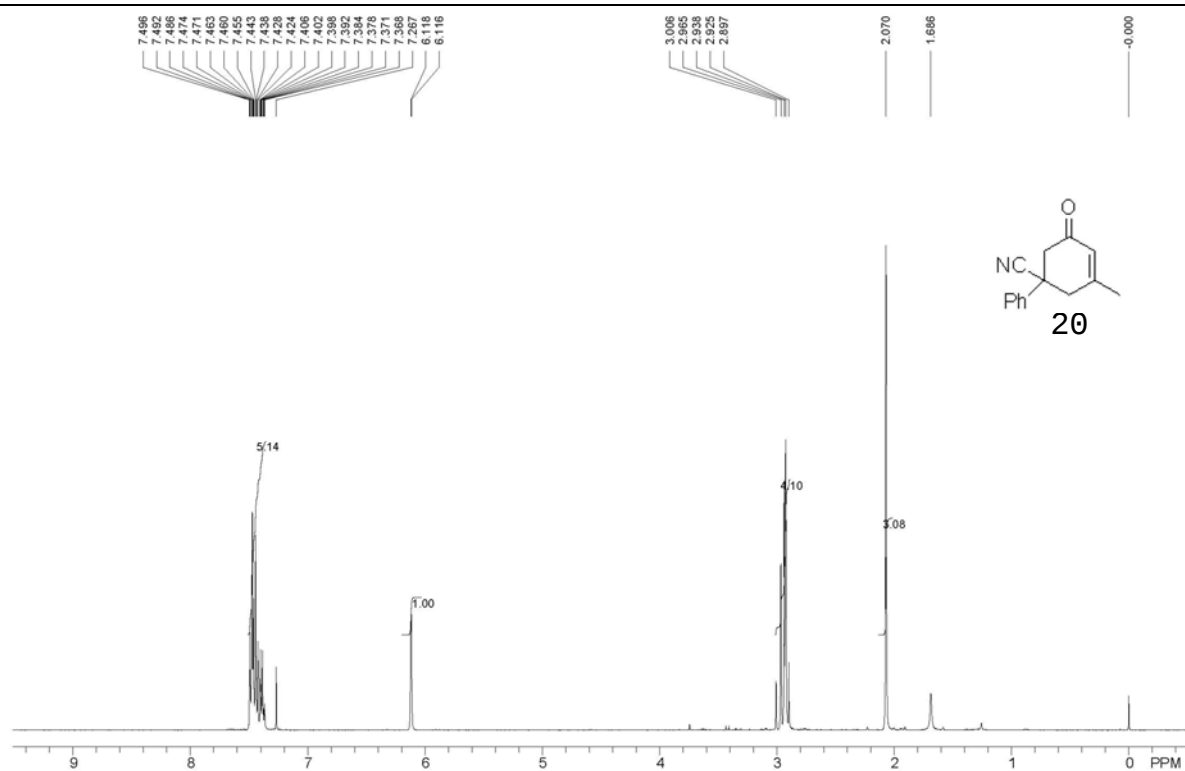
18-H(400 MHz)



18-C(100 MHz)



20-H(400 MHz)



20-H(100 MHz)

