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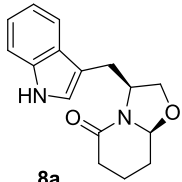
Síntesis enantioselectiva de alcaloides oxindólicos a partir de lactamas bicíclicas quirales

Carlos Martín Ramos Bosch

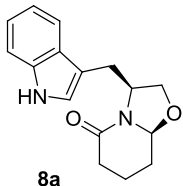
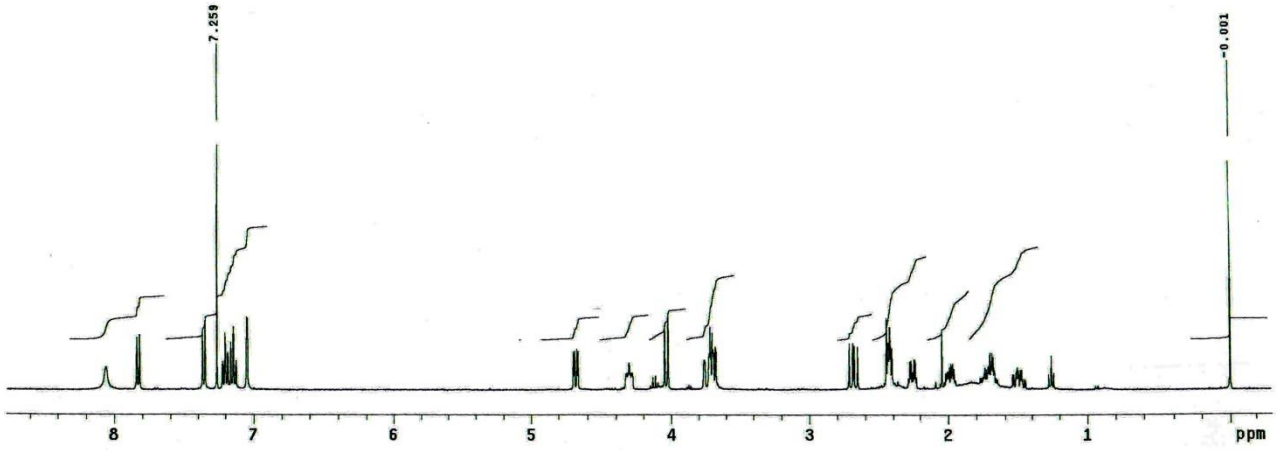
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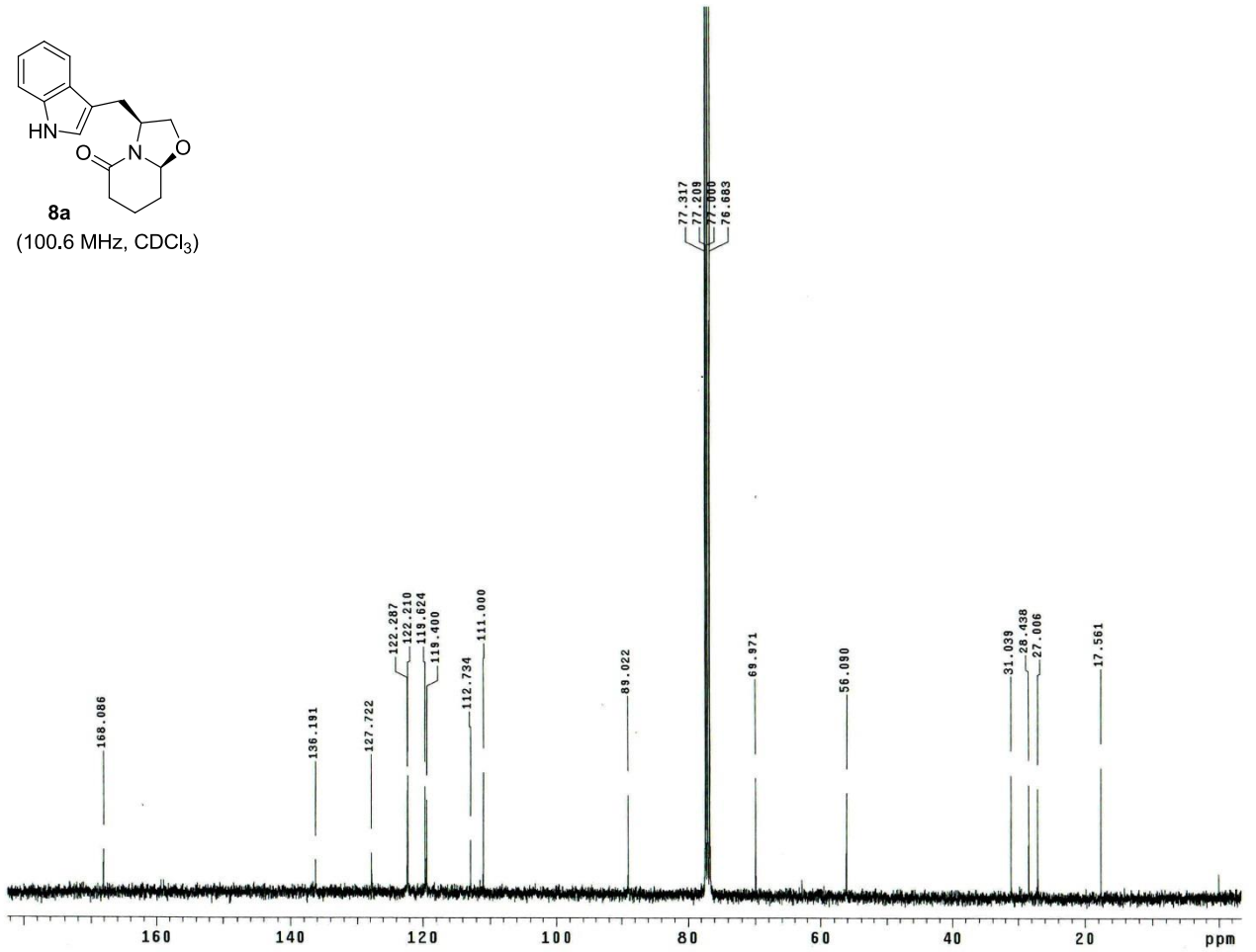
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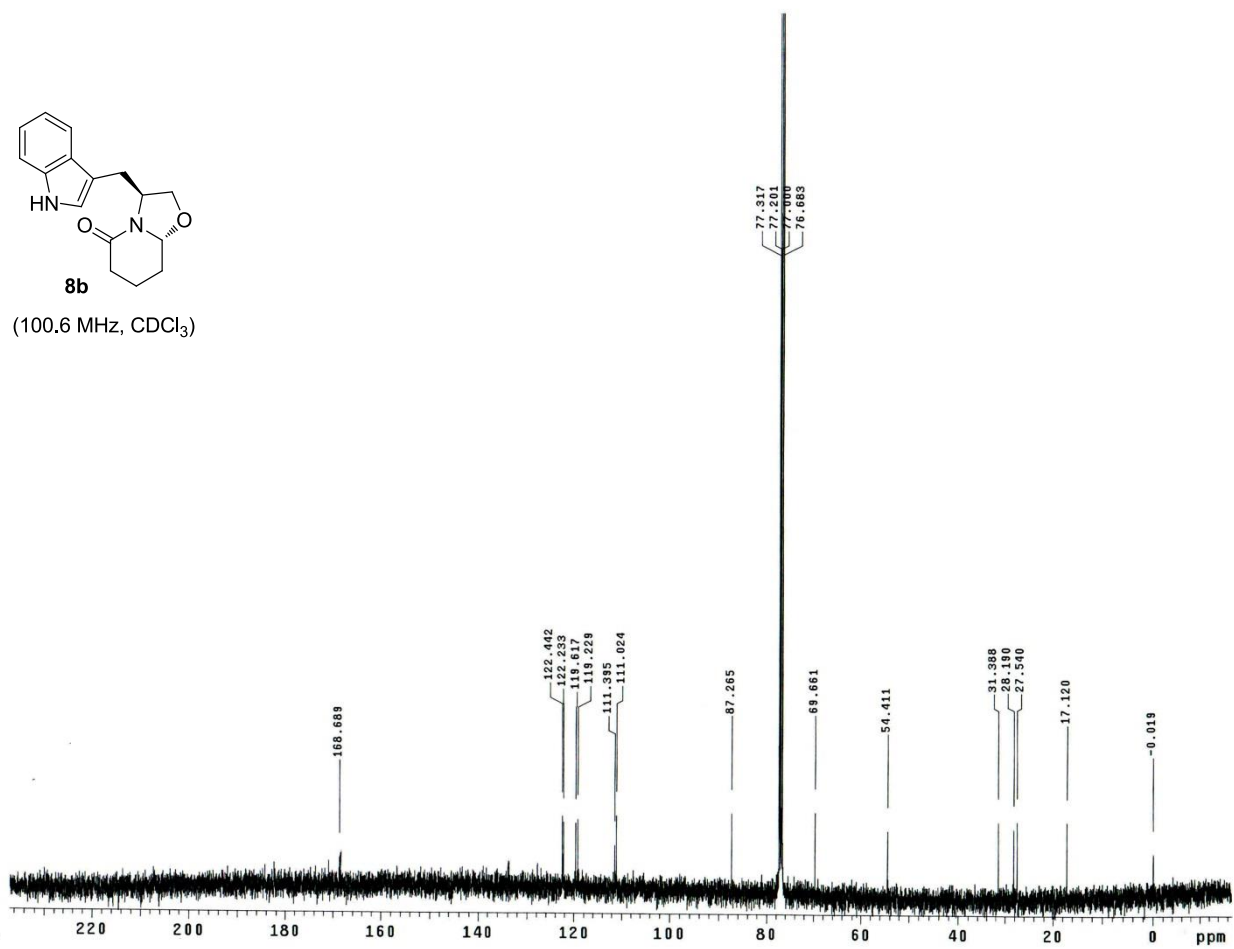
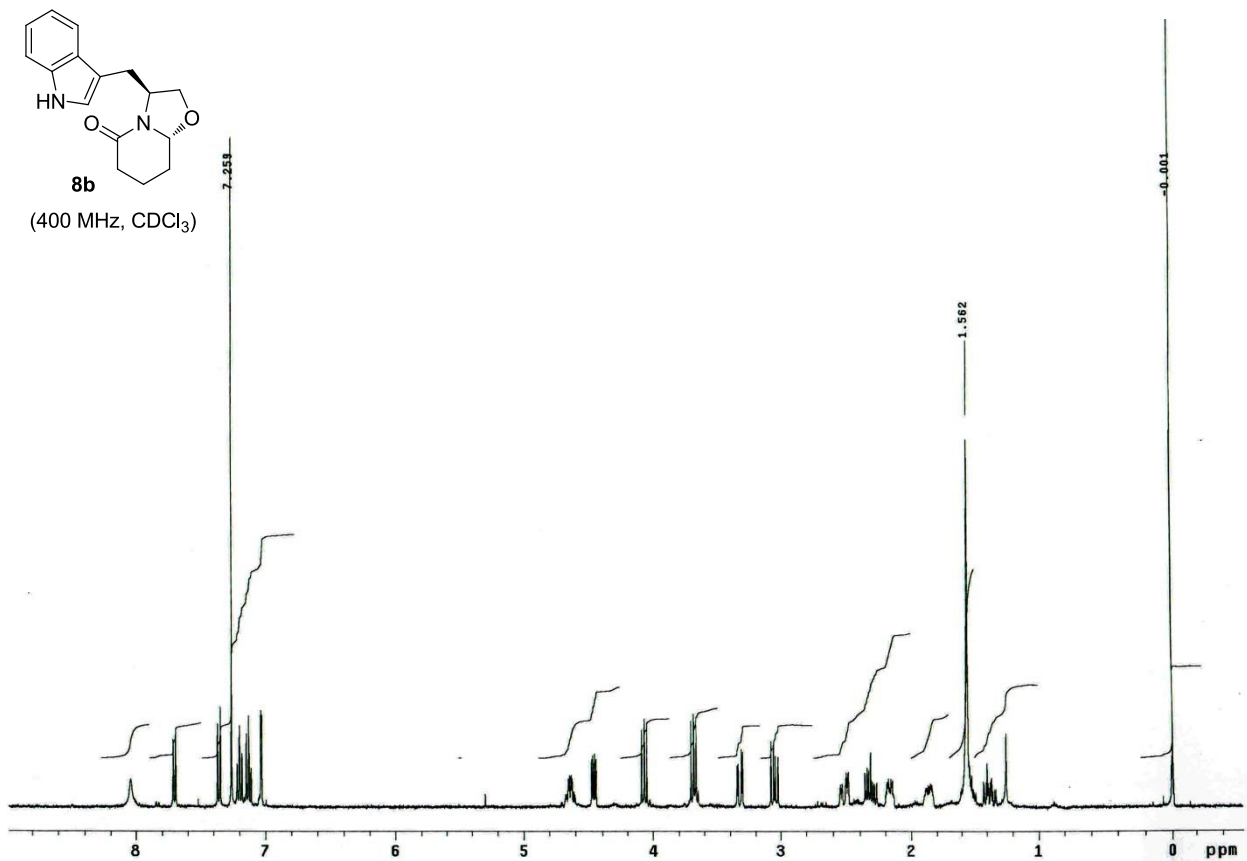


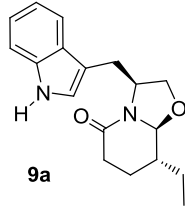
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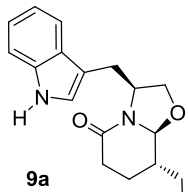
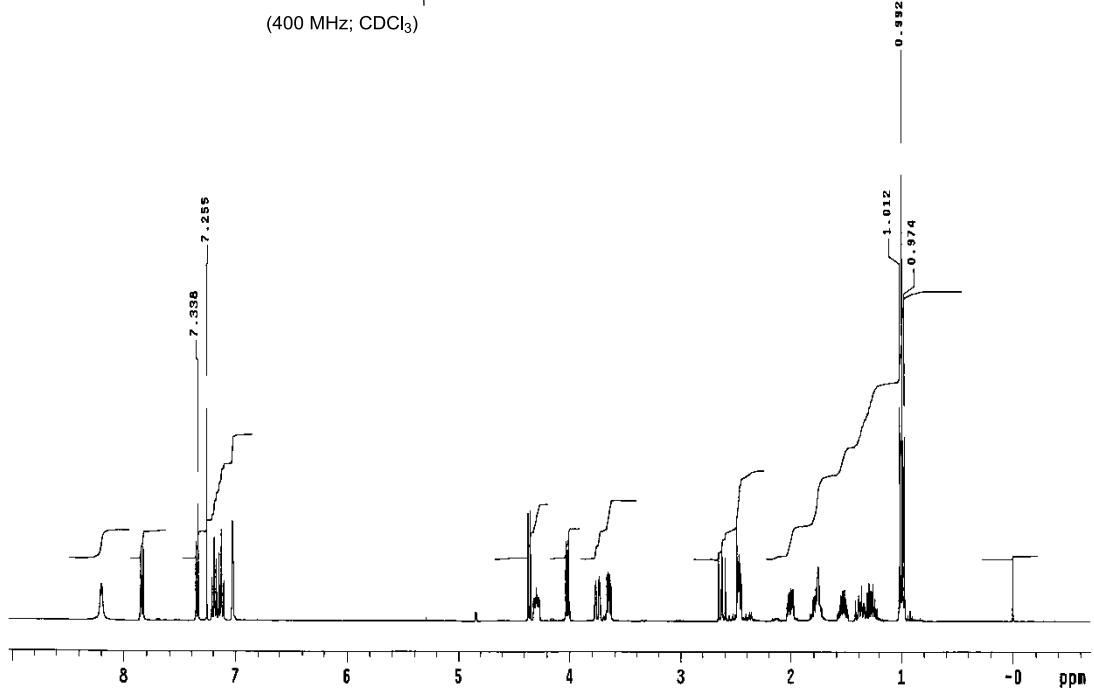
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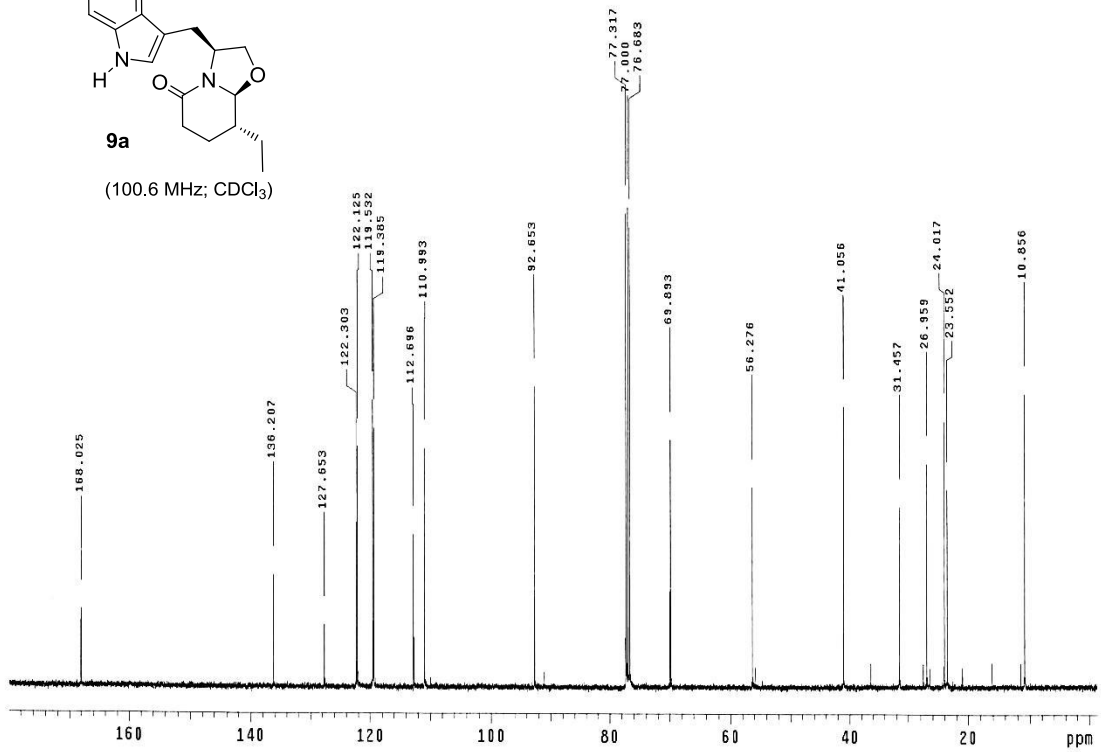


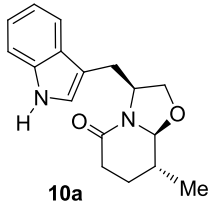


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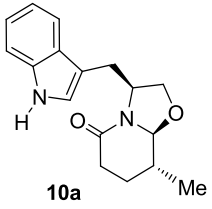
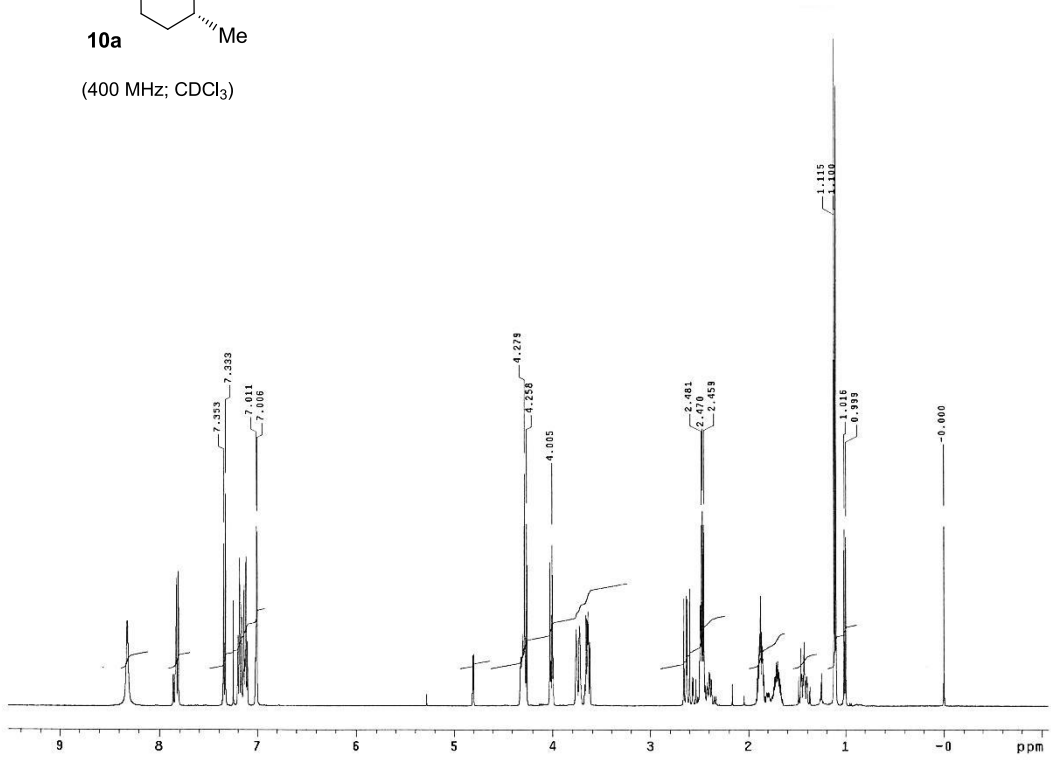


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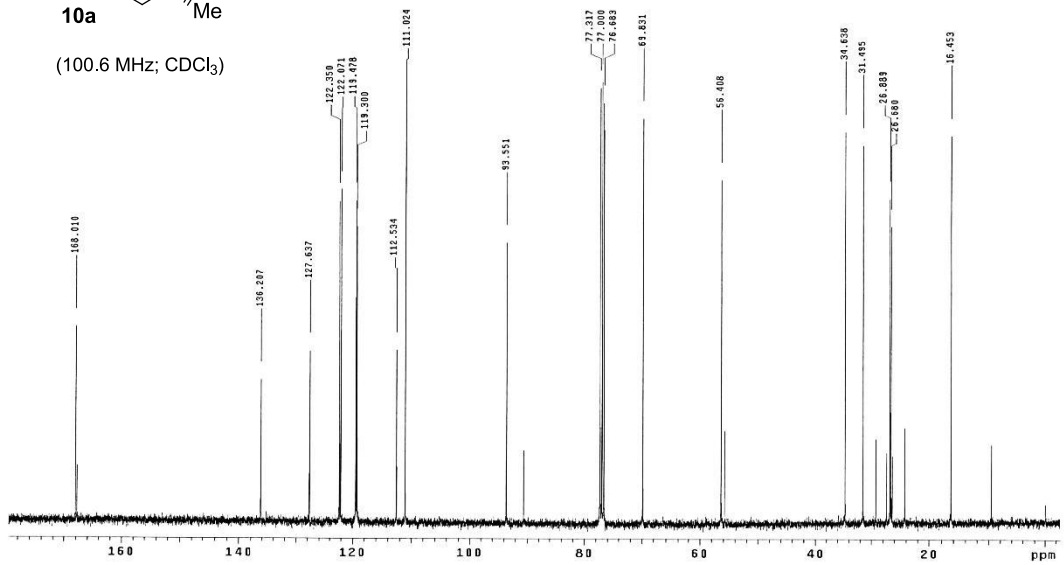


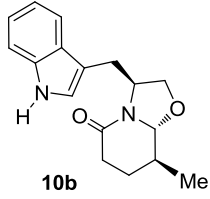


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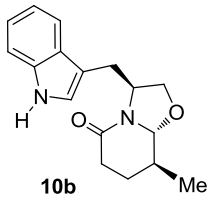
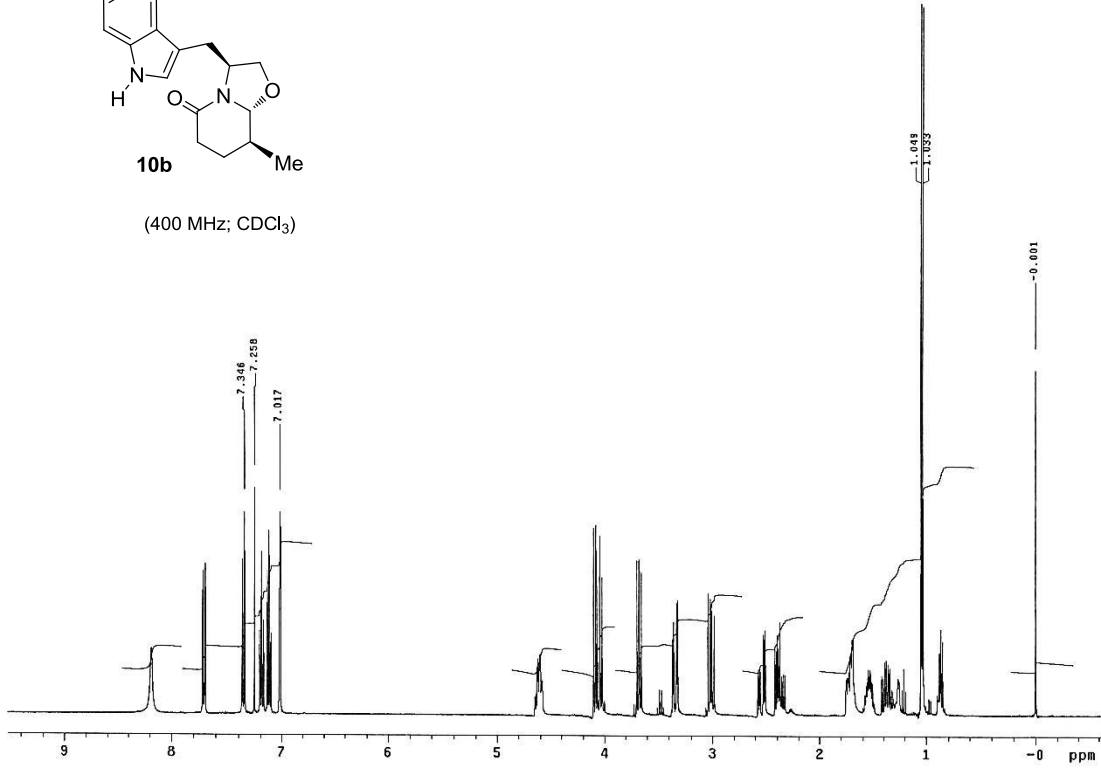


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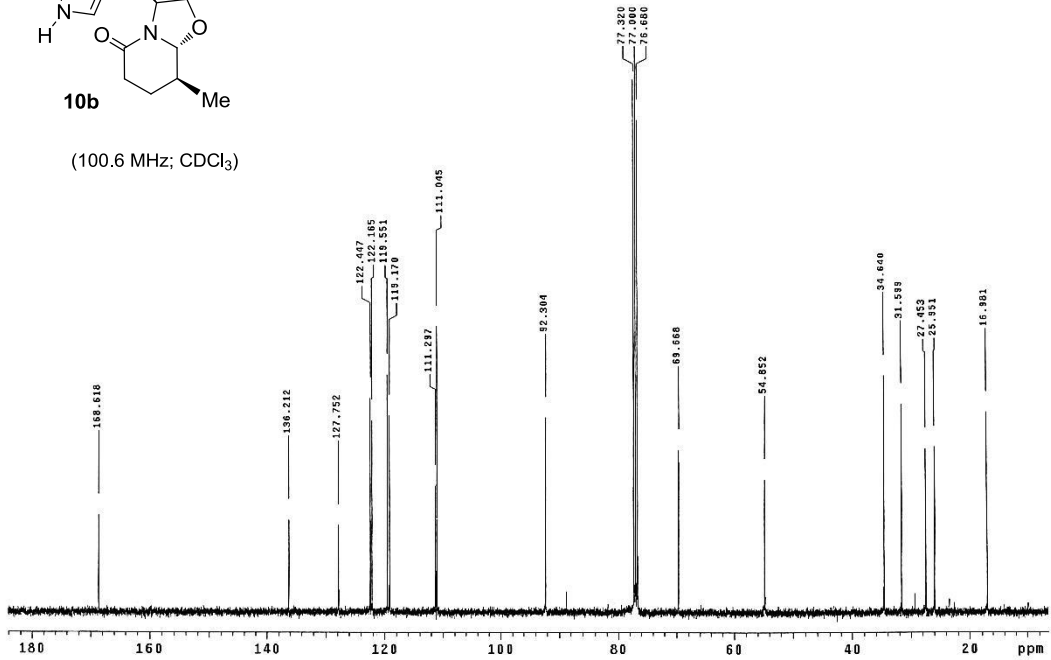


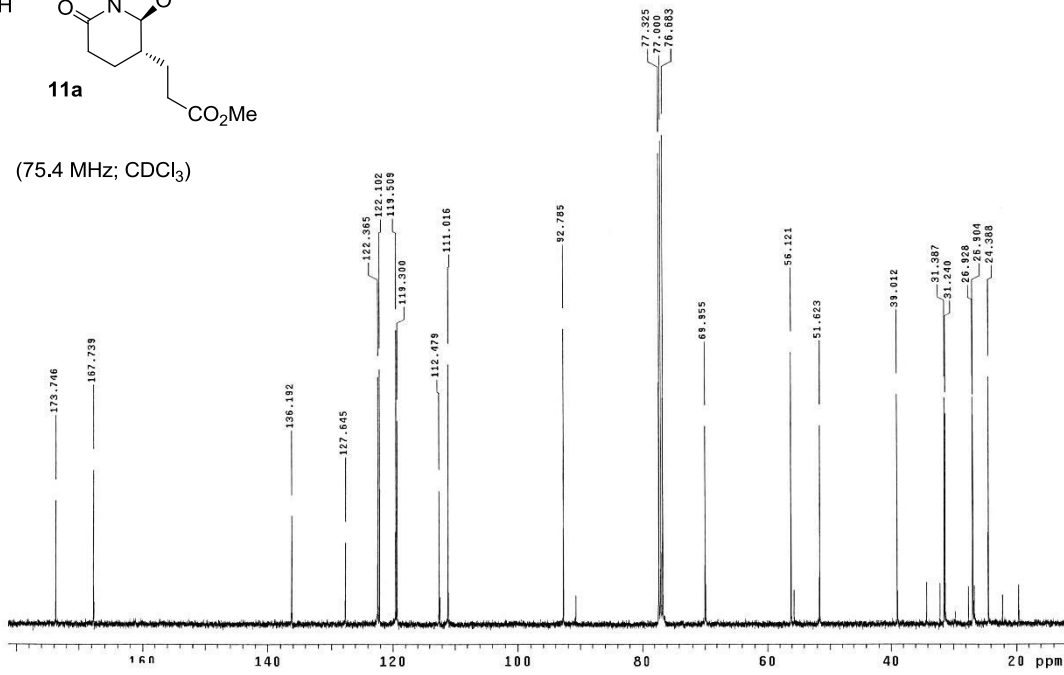
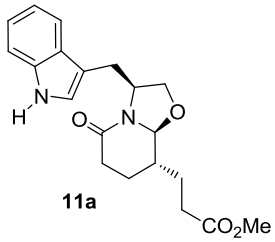
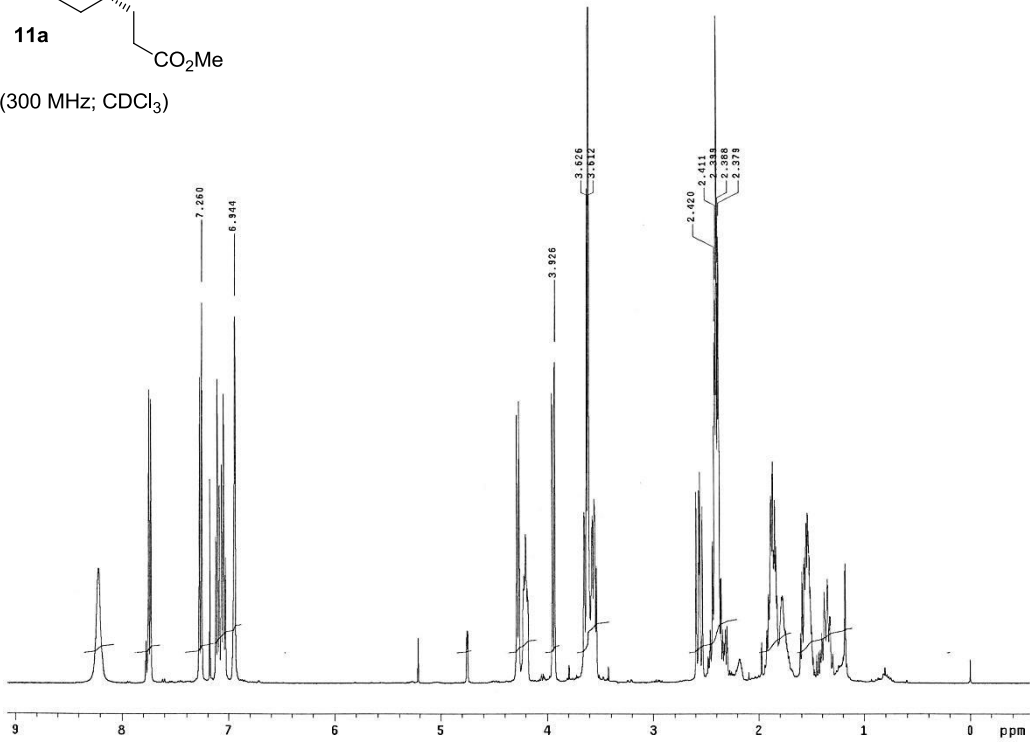
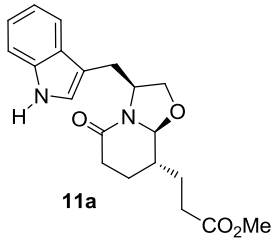


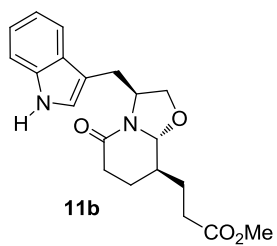
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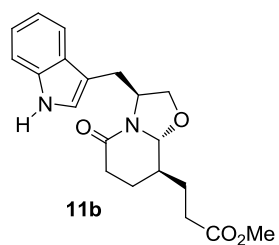
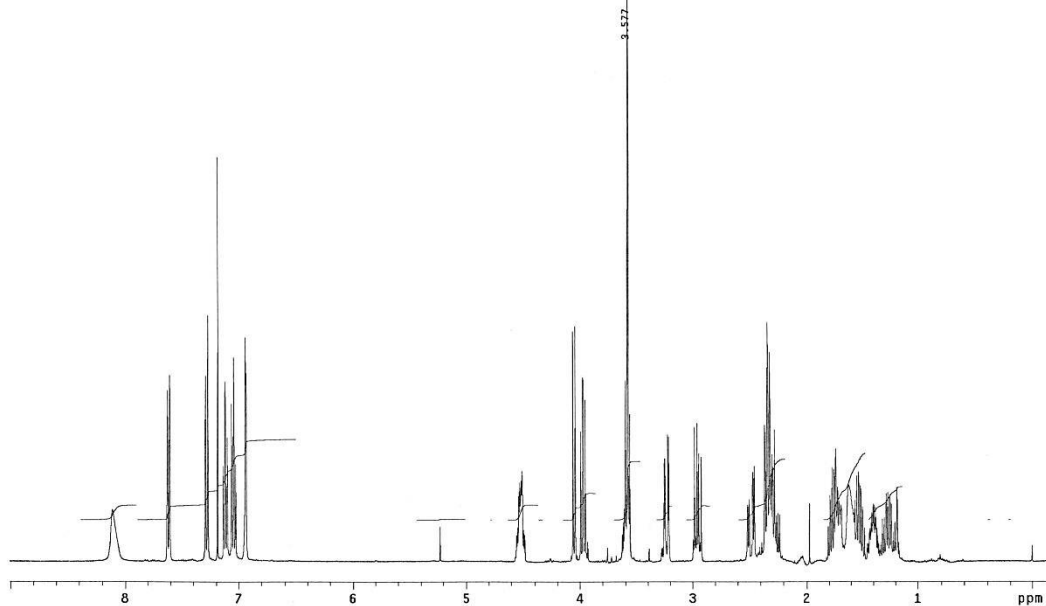
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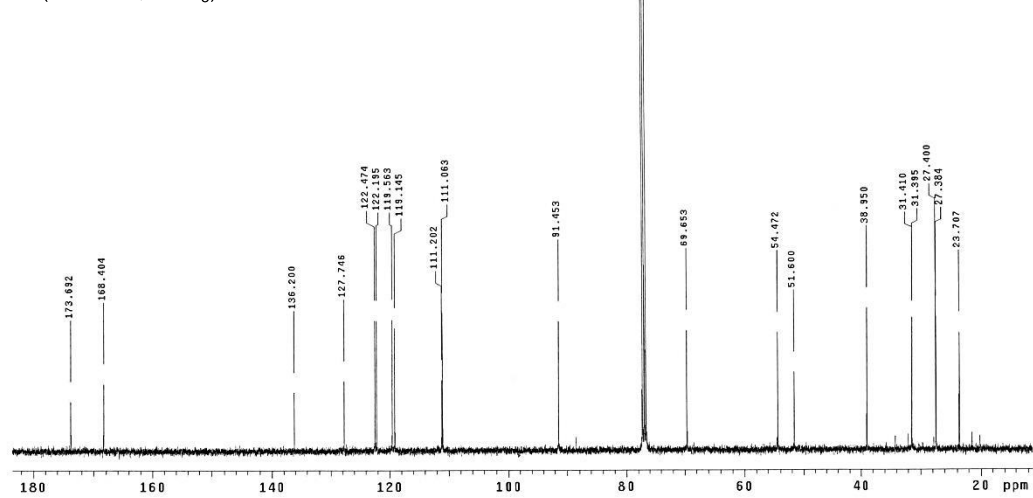


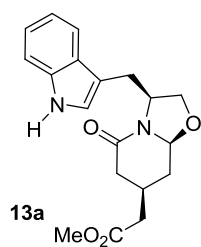


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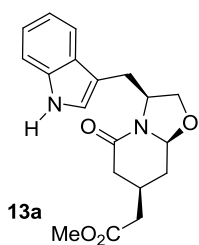
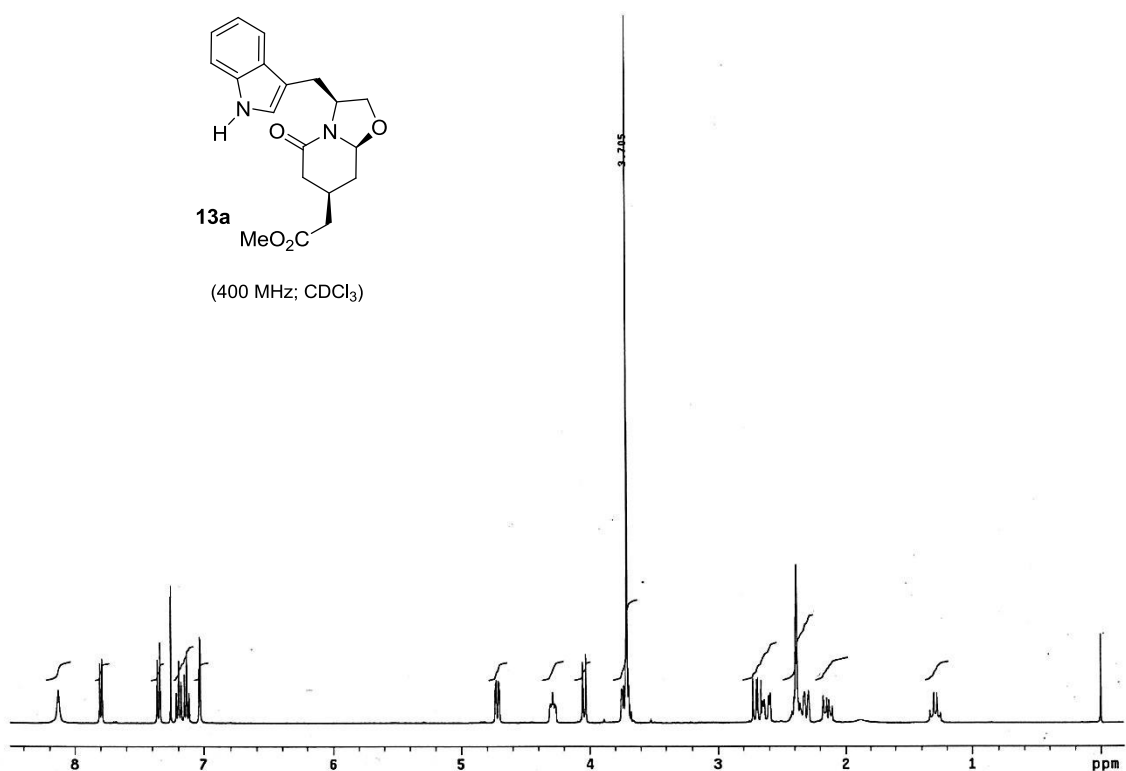


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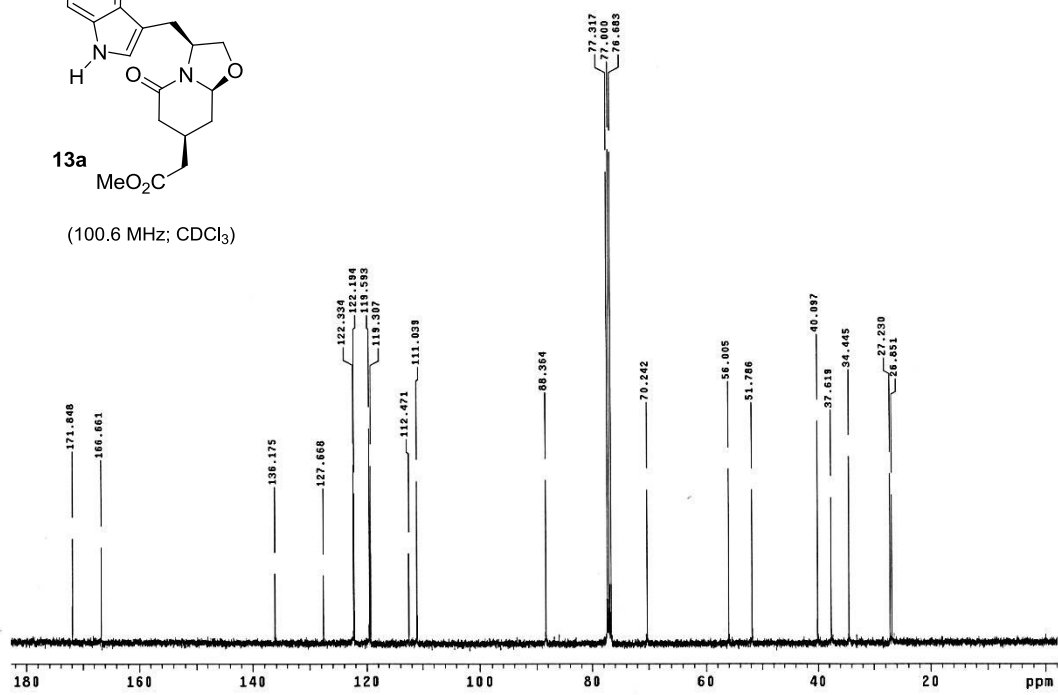


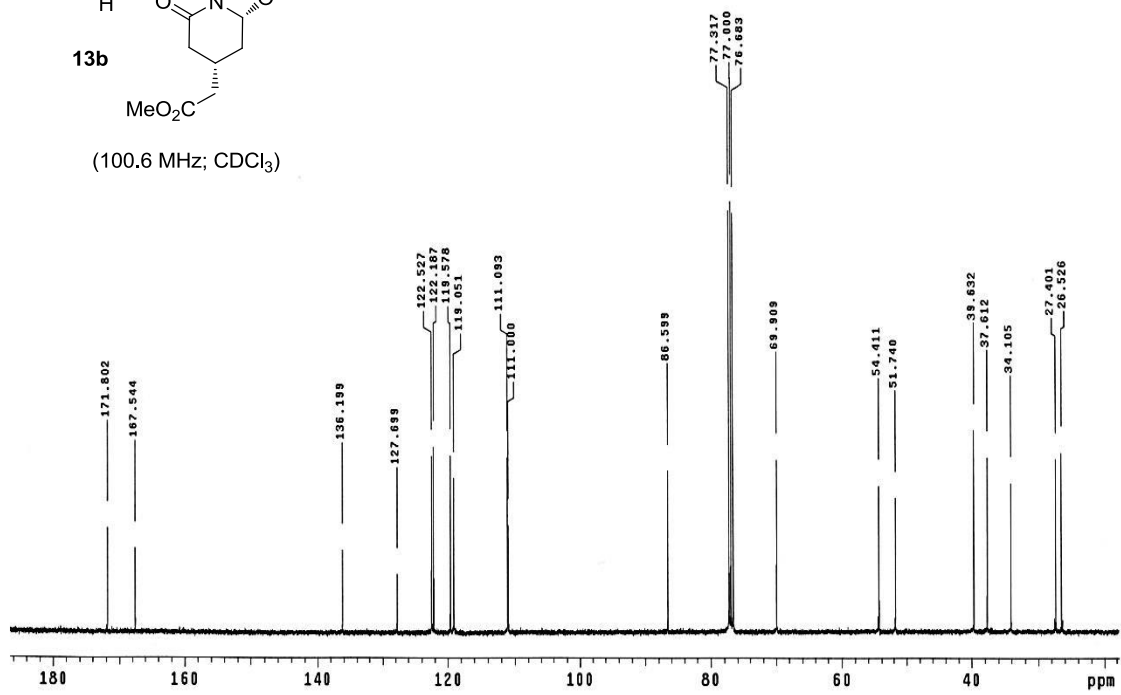
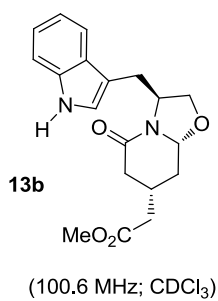
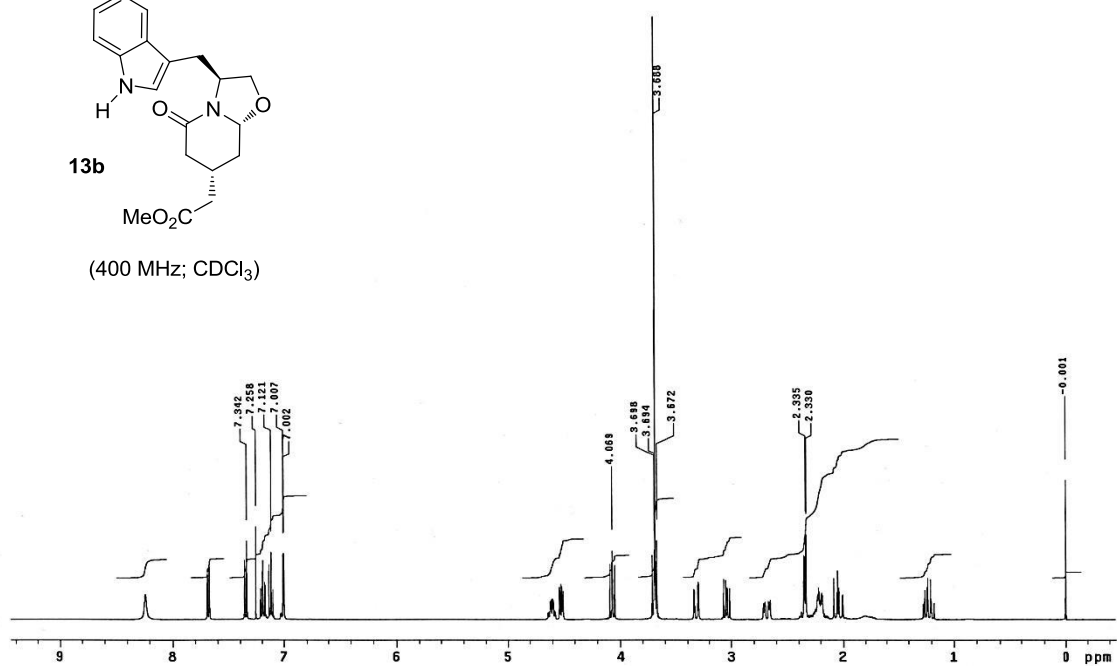
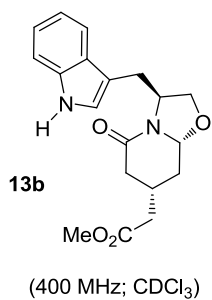


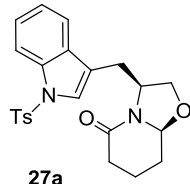
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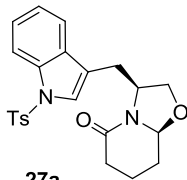
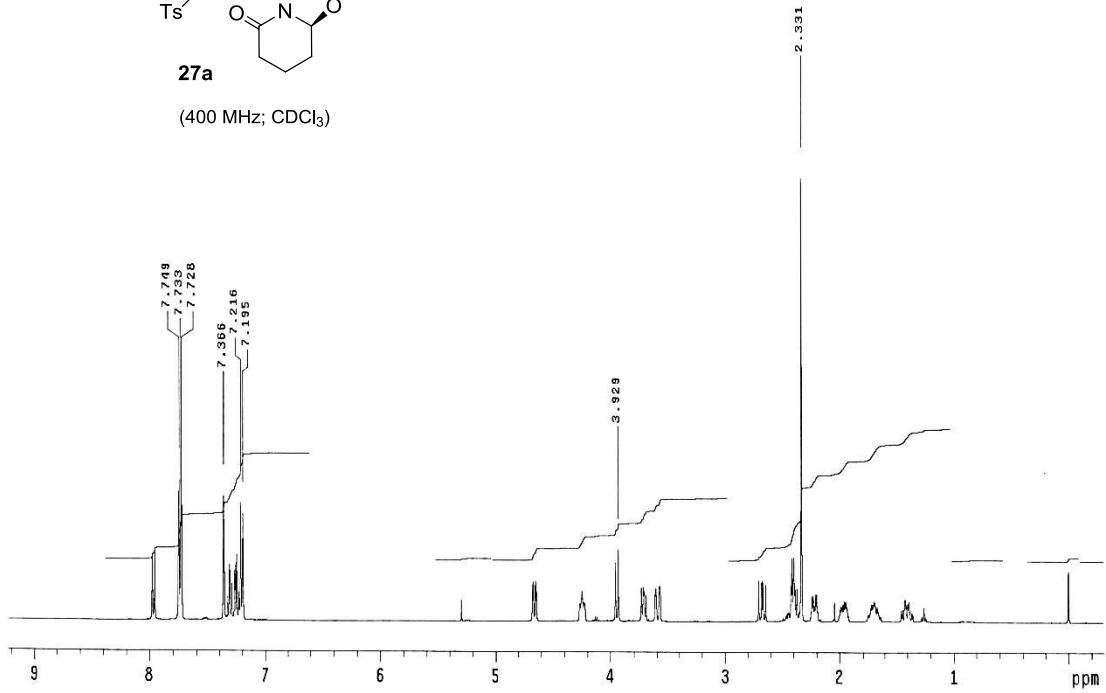






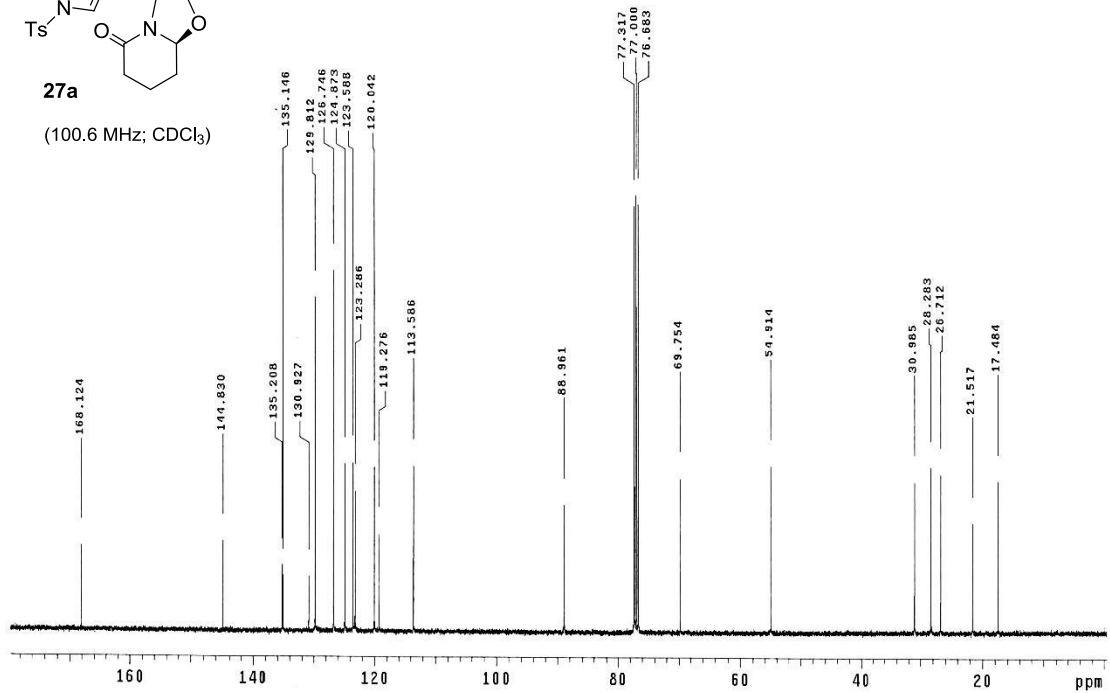
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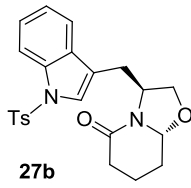
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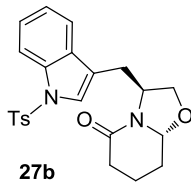
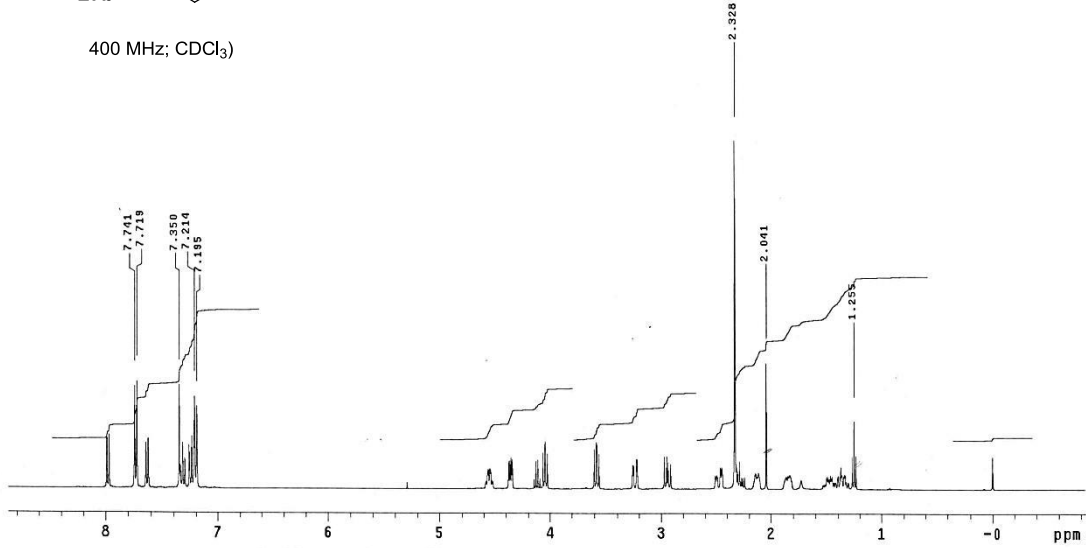
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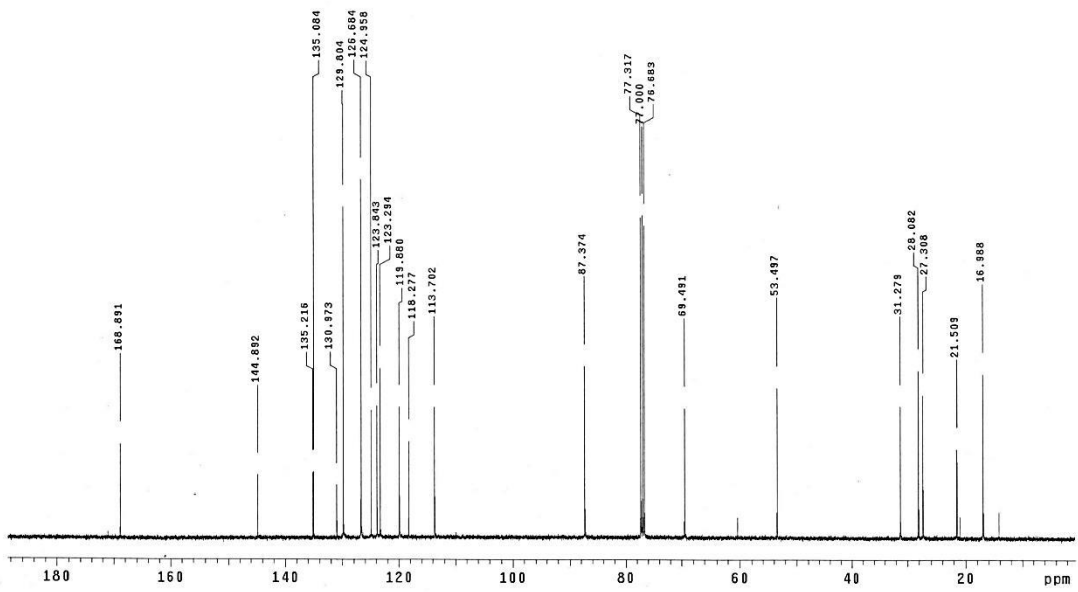


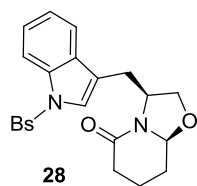


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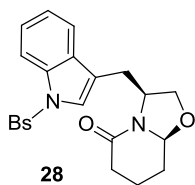
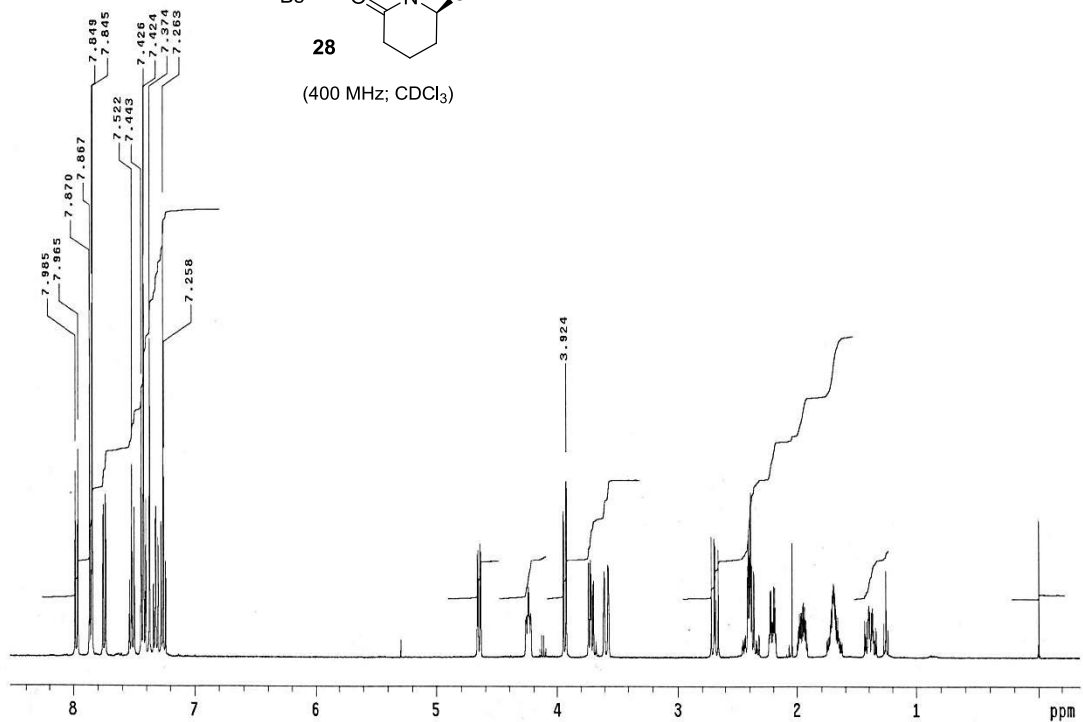


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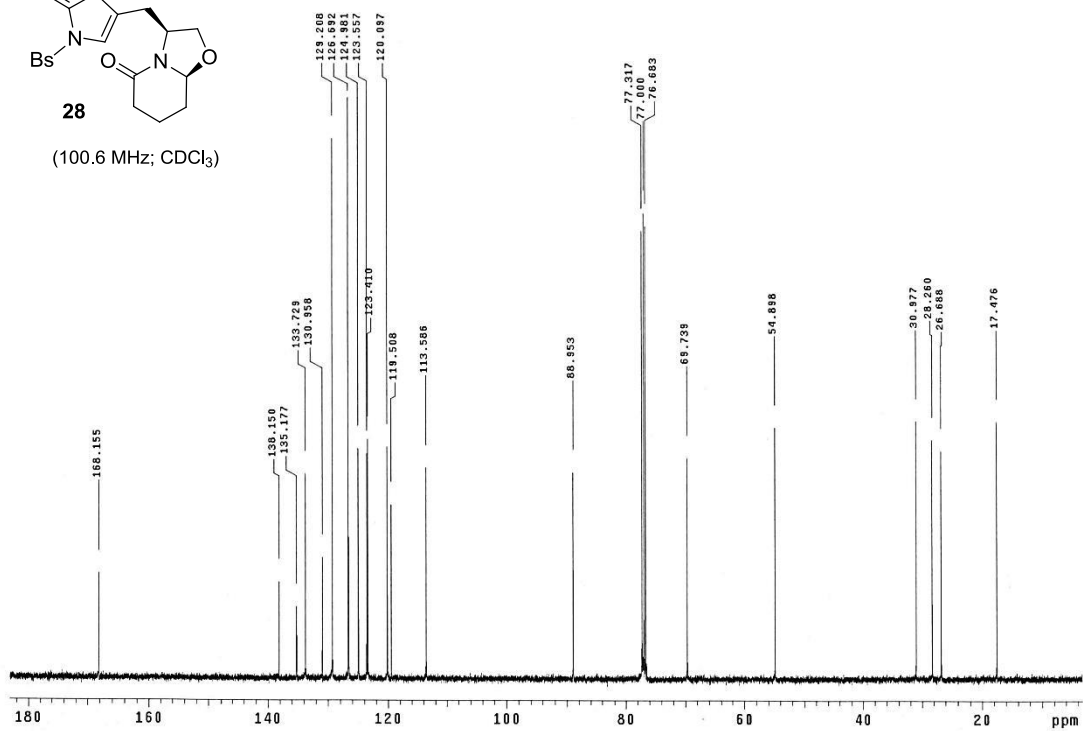


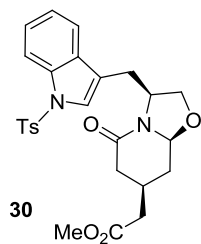


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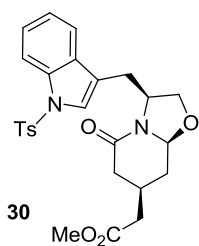
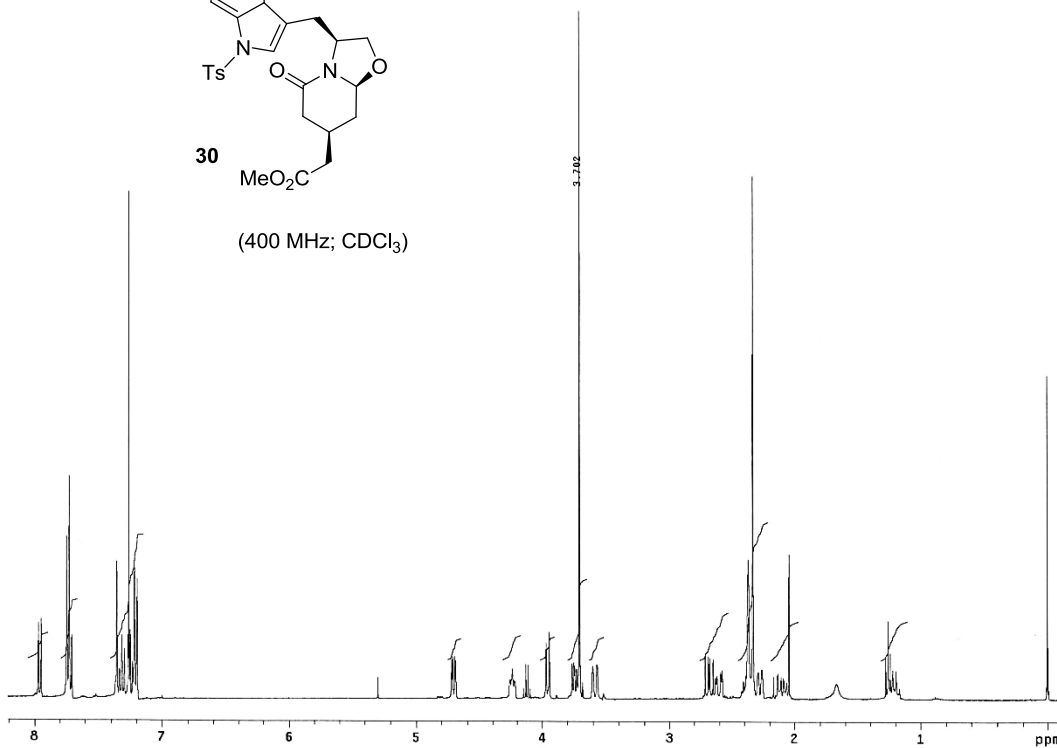


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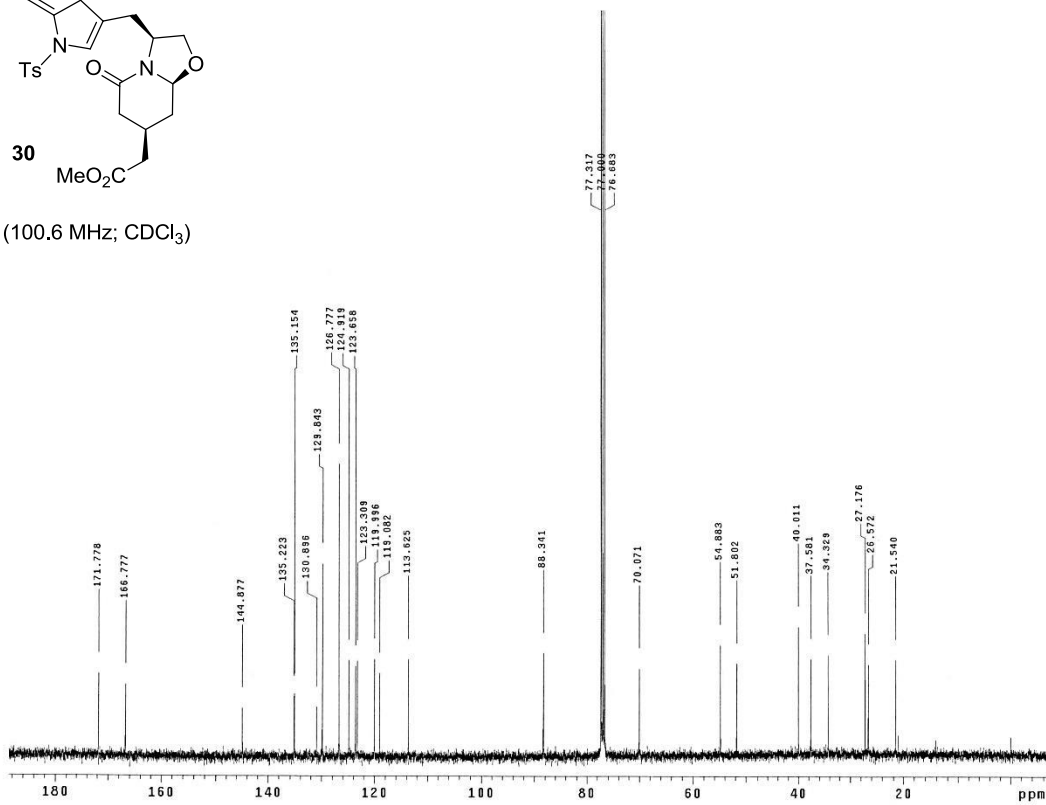


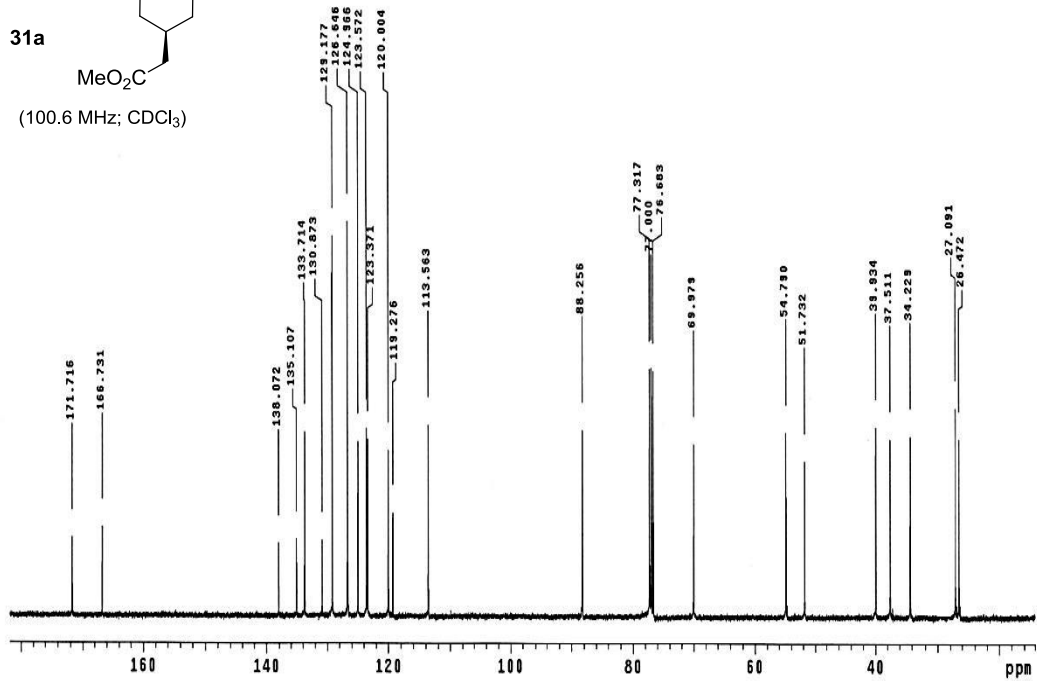
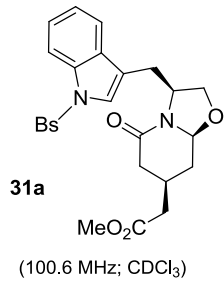
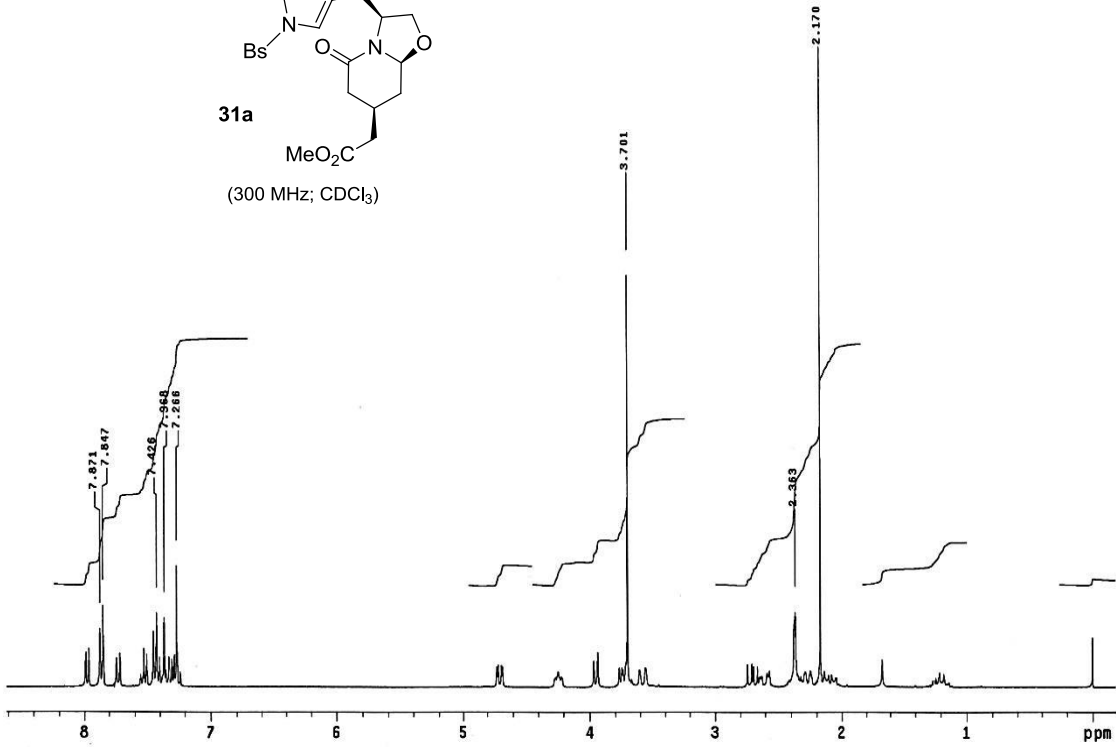
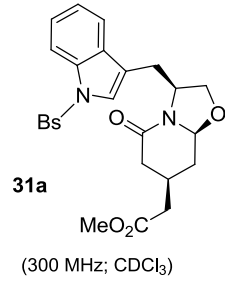


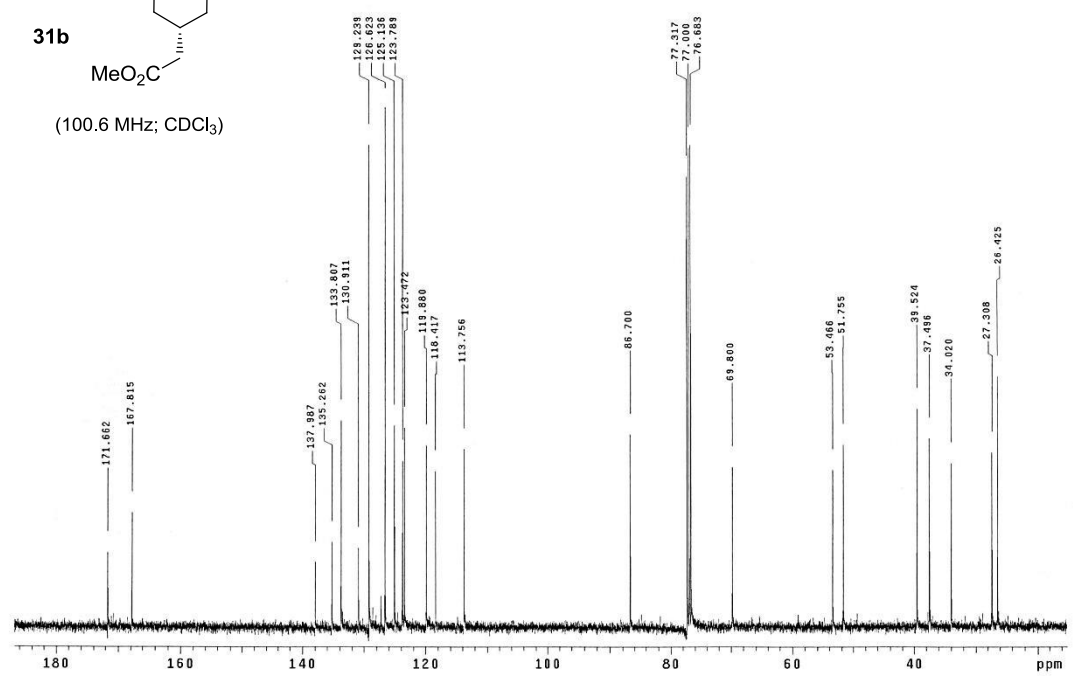
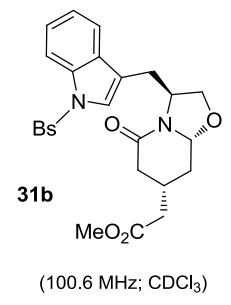
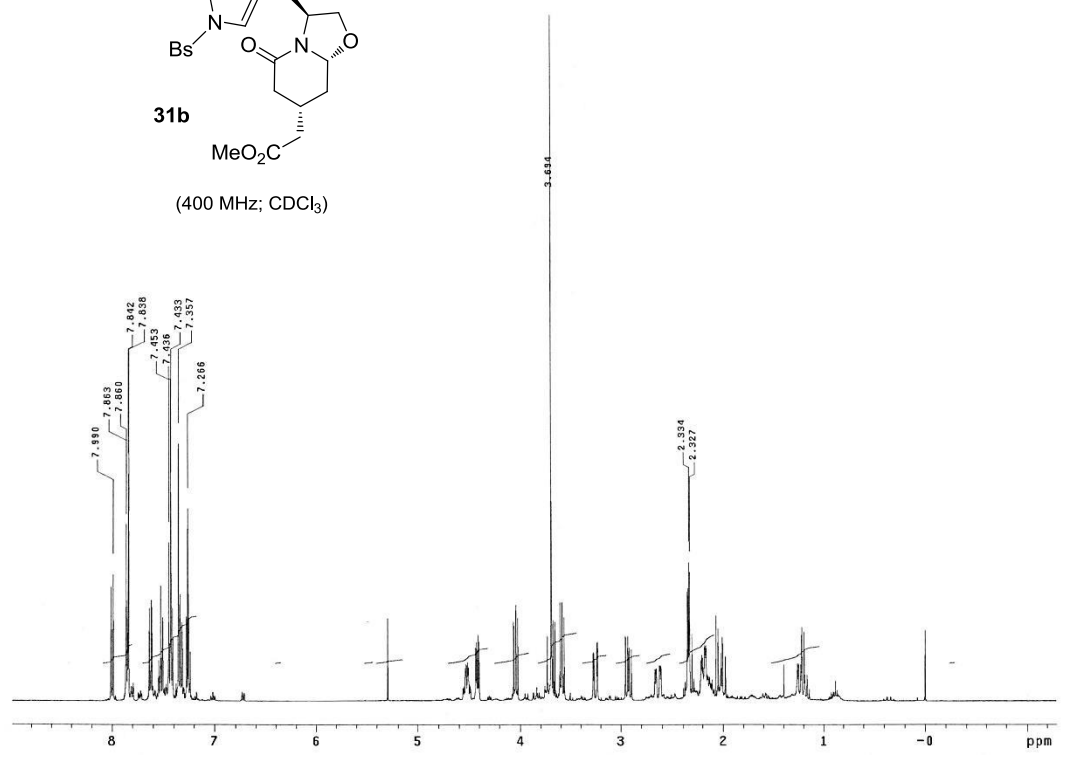
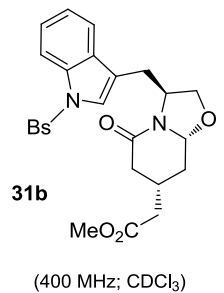
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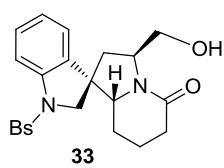


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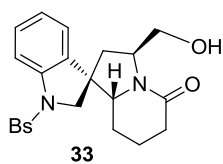
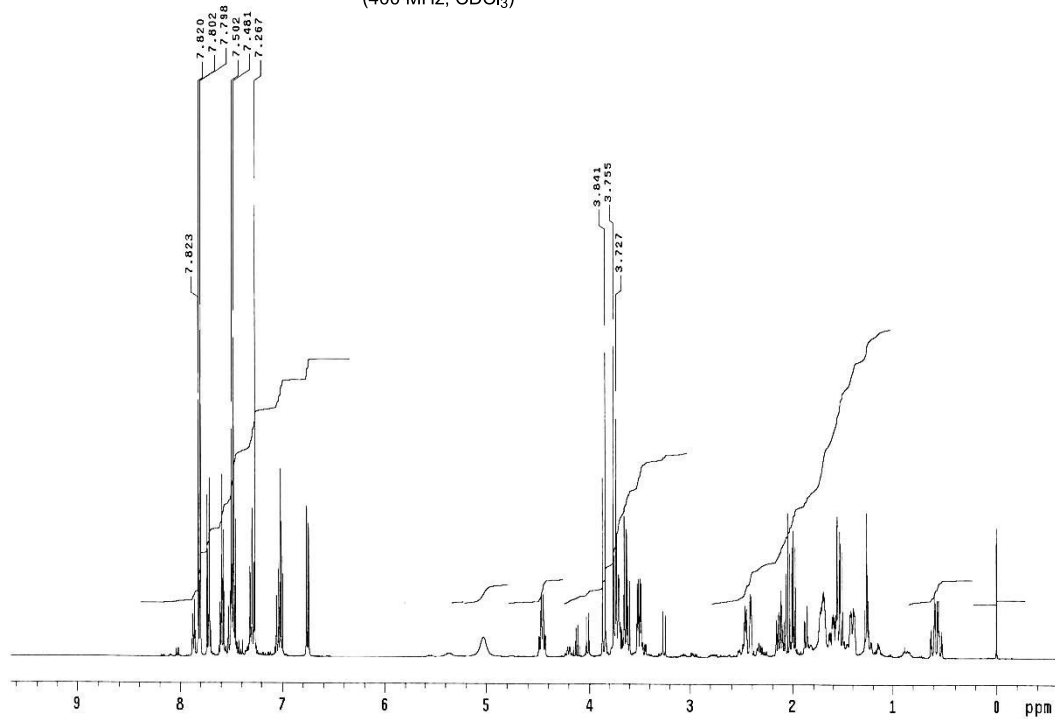




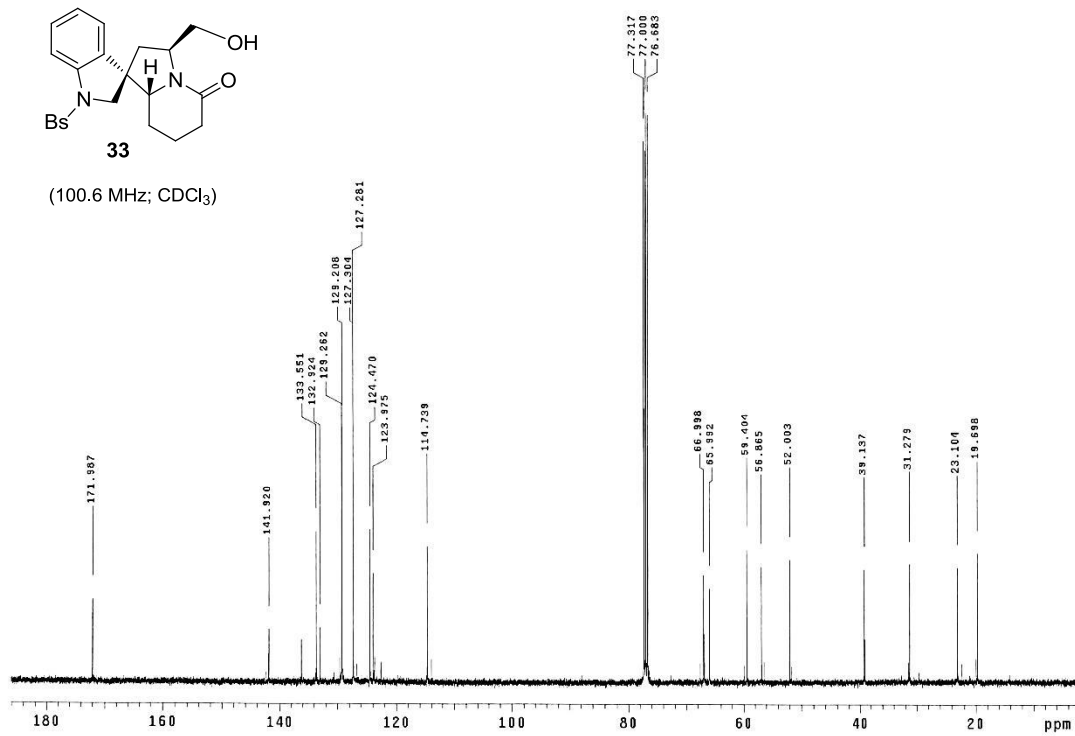


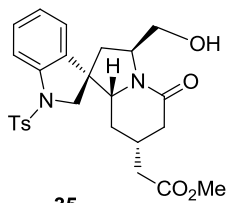


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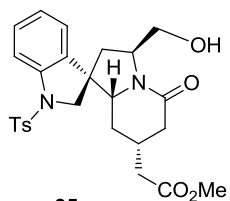
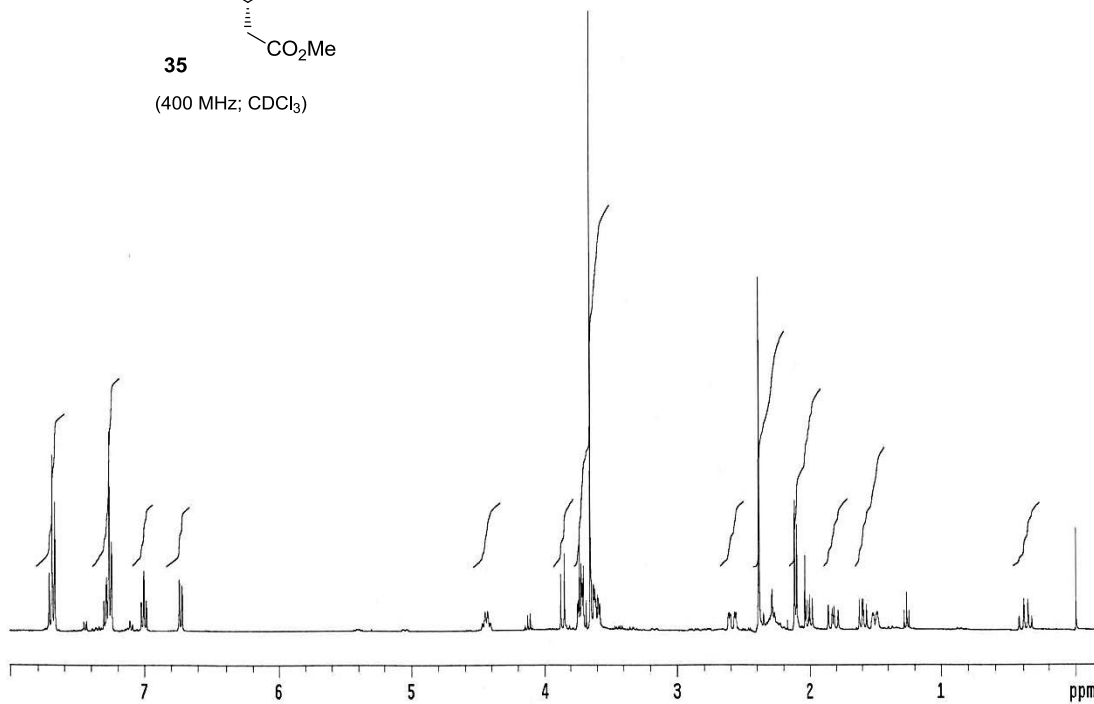
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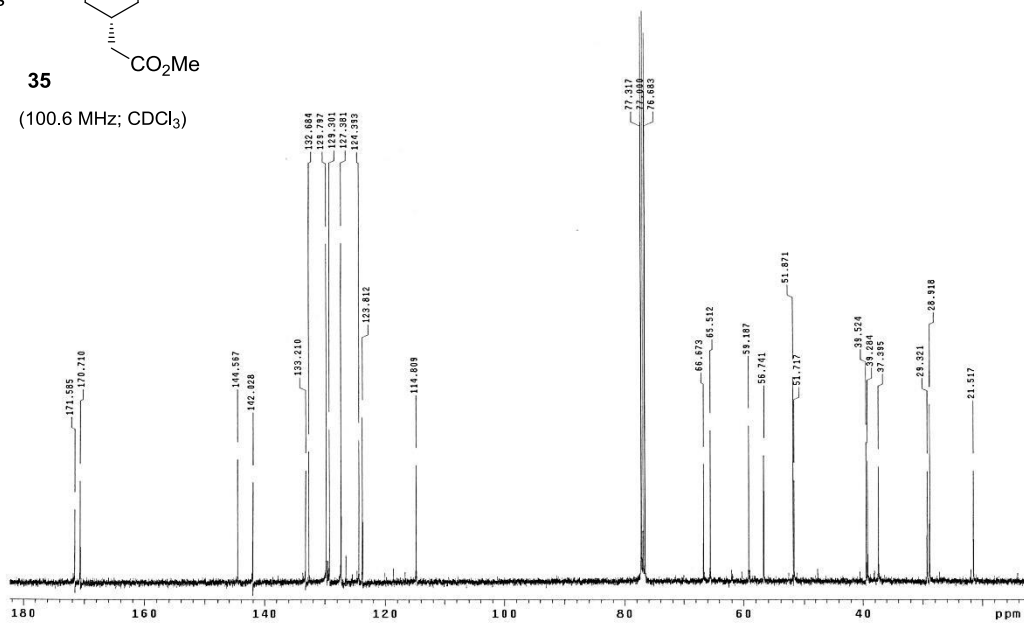
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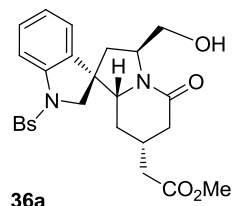
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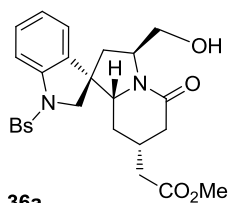
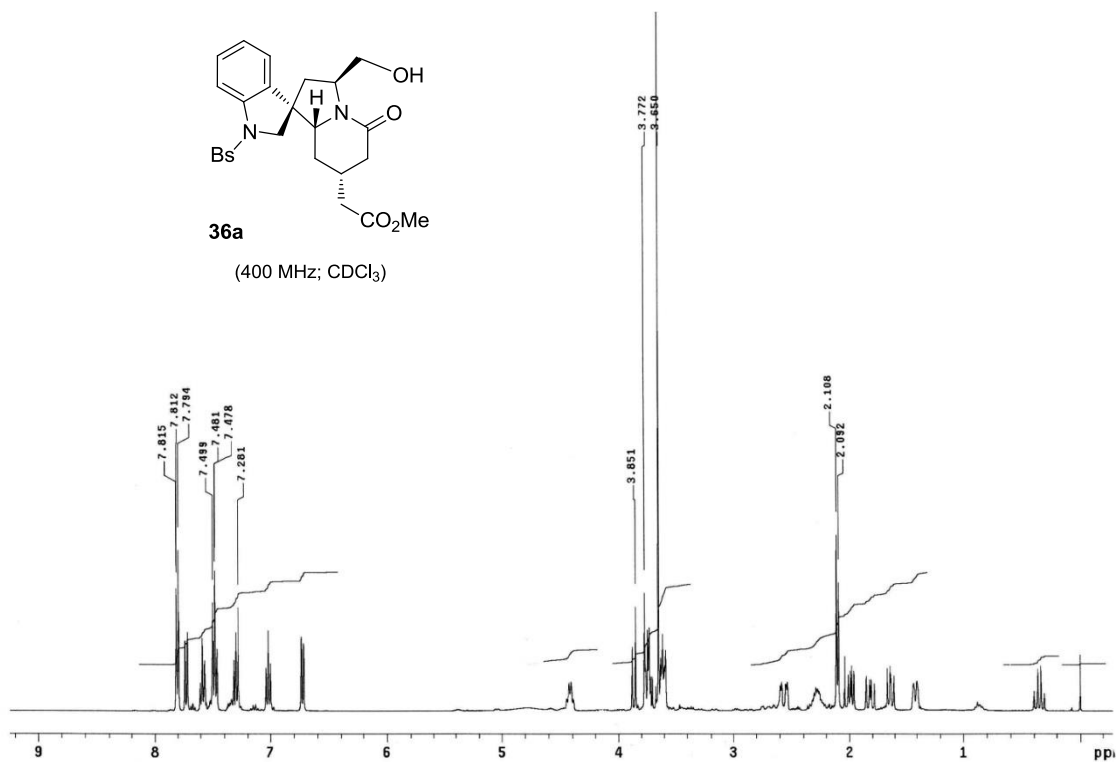
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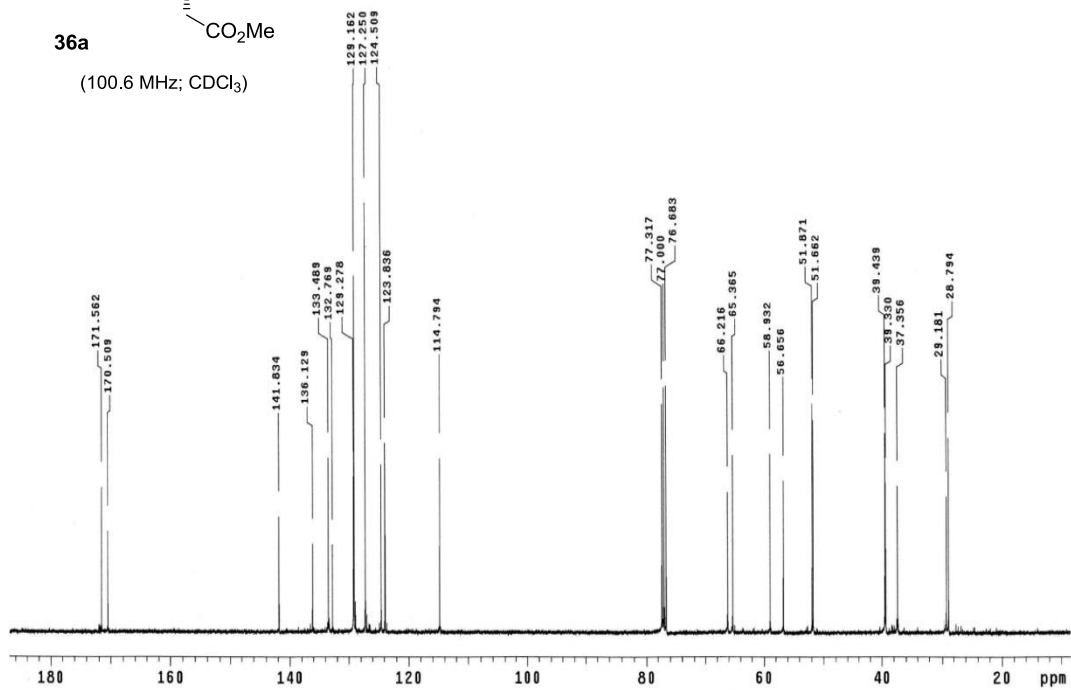


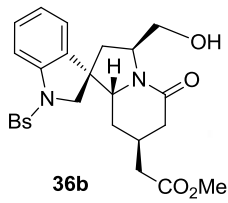


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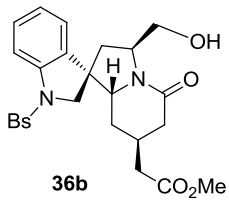
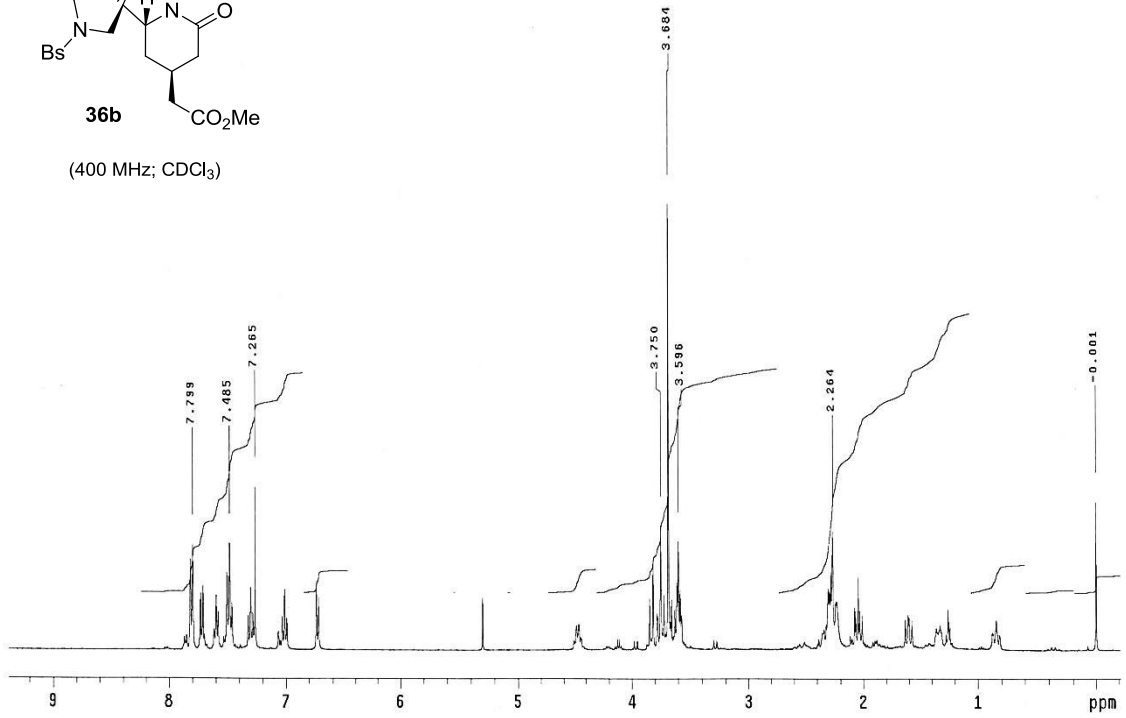


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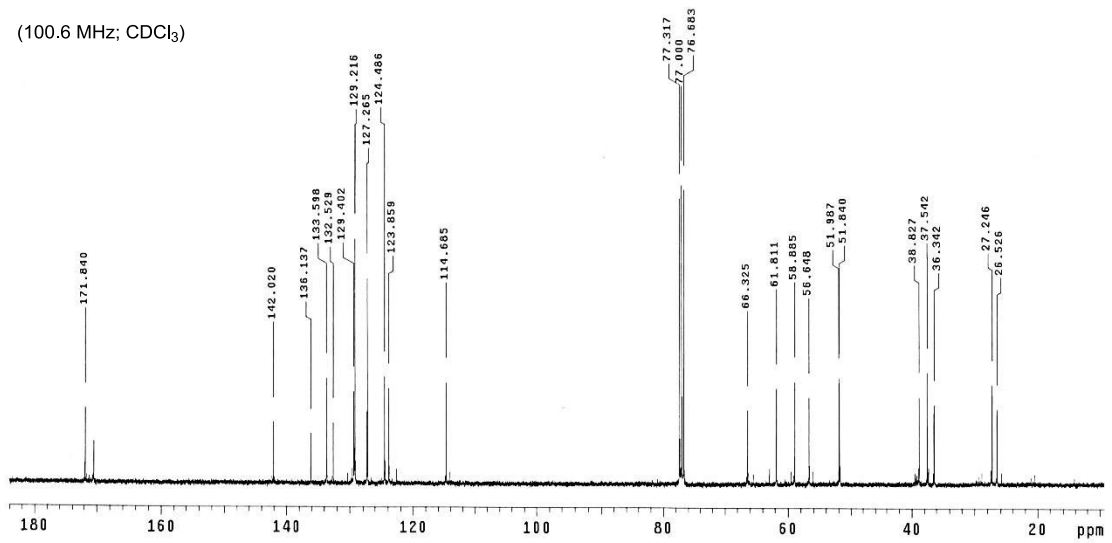


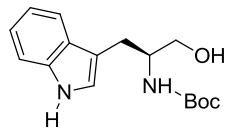


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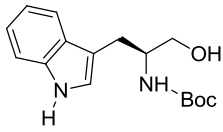
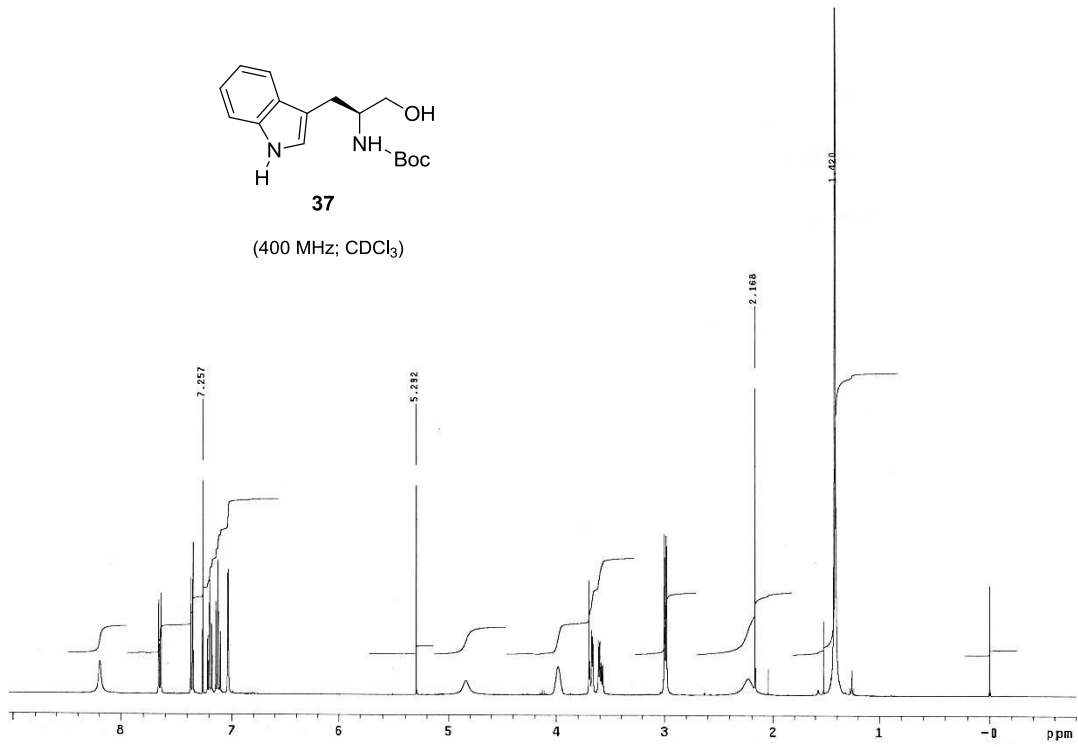
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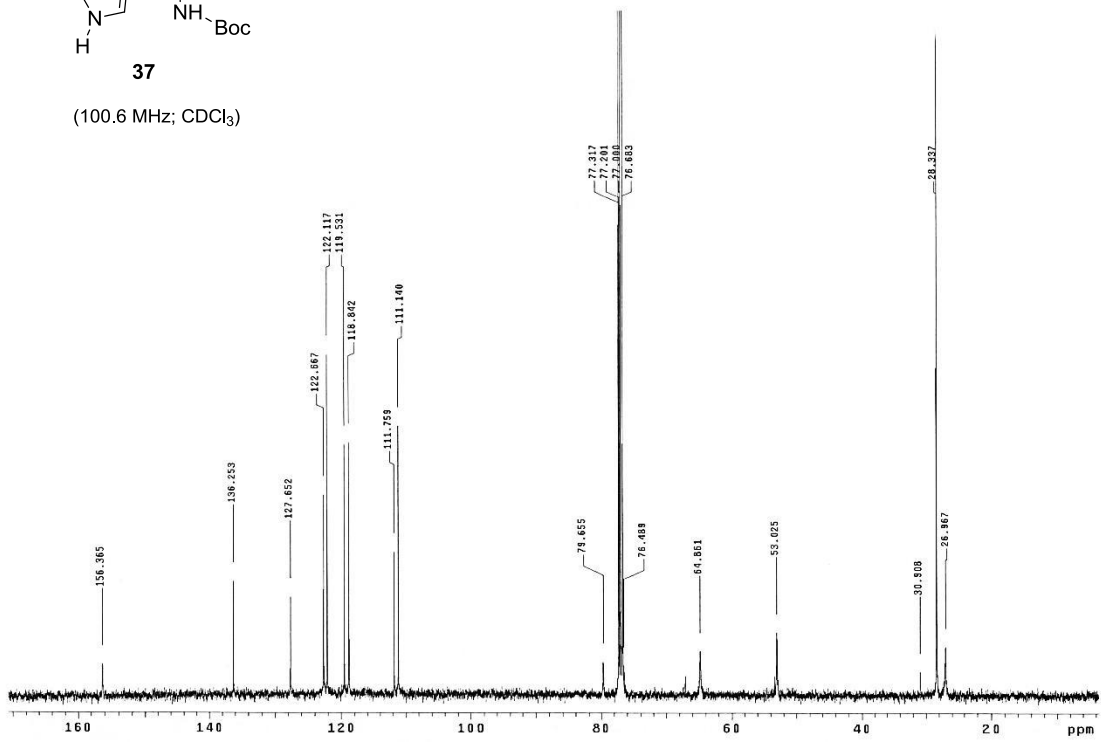
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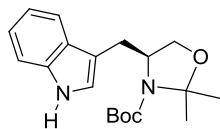
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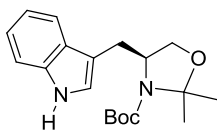
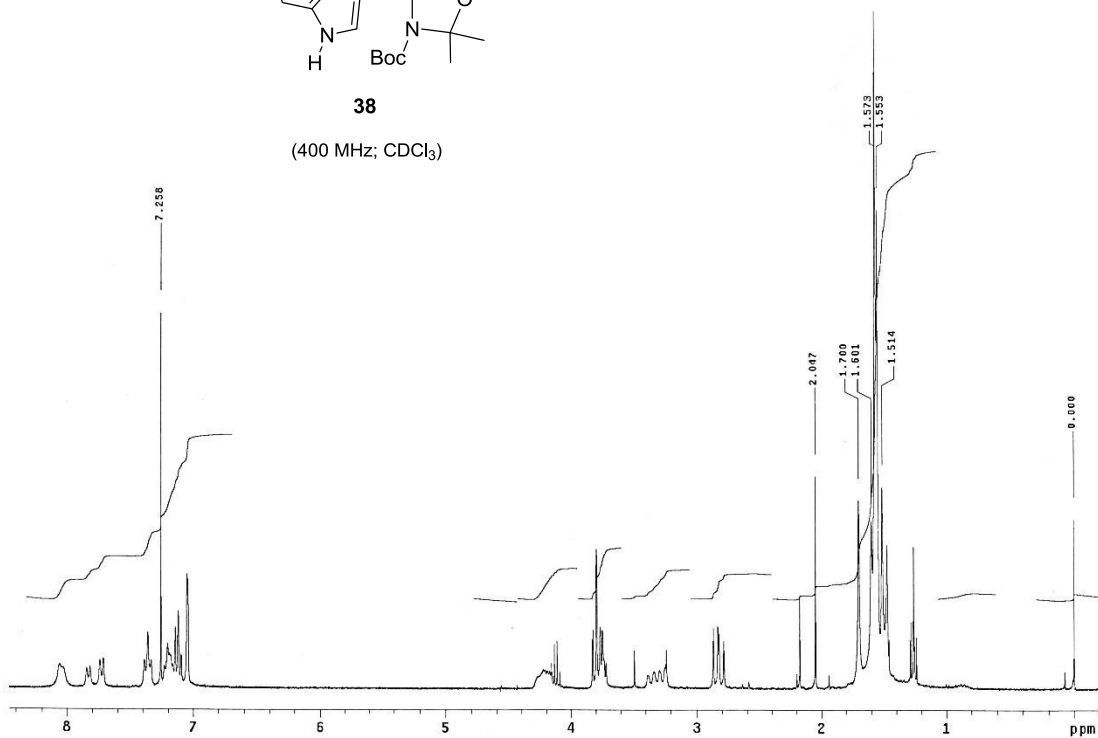
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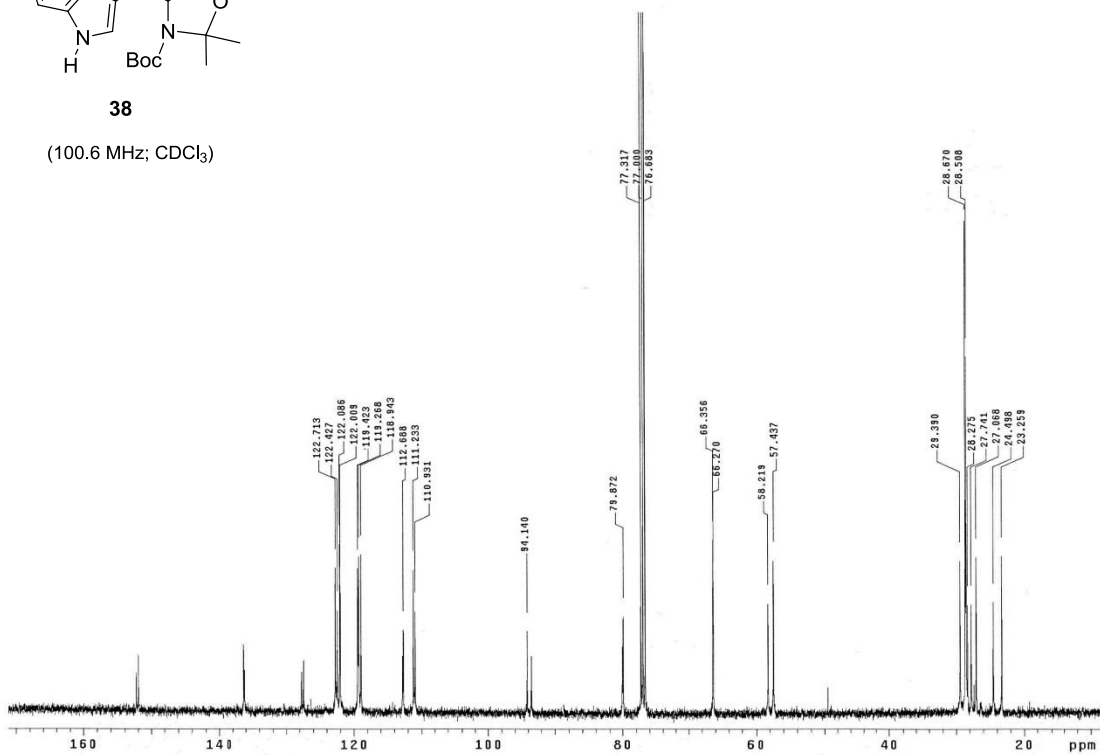
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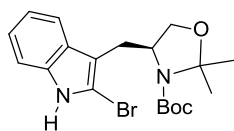
(400 MHz; CDCl₃)



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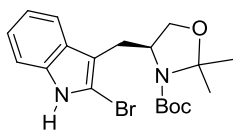
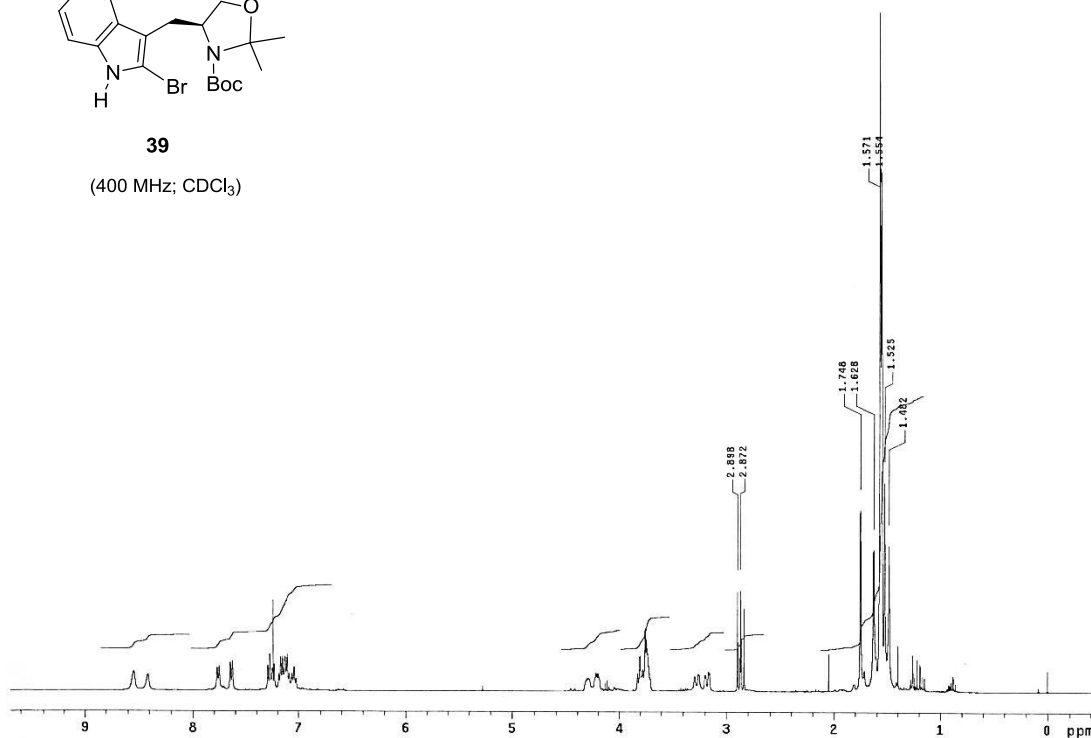
(100.6 MHz; CDCl₃)





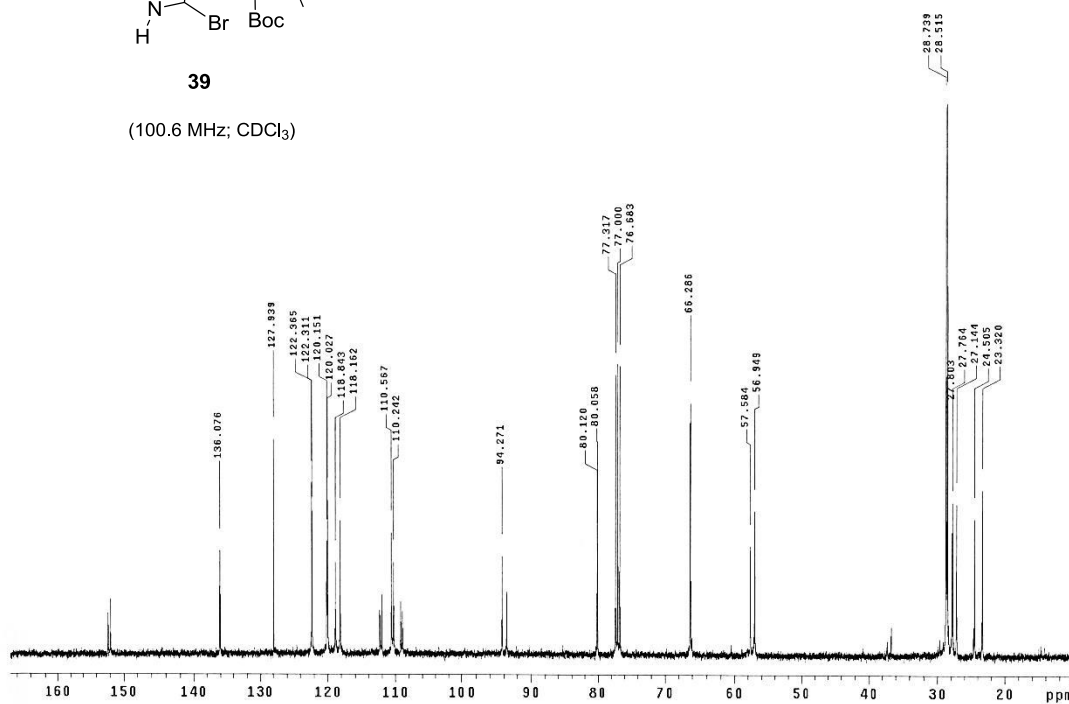
39

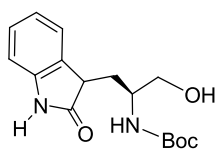
(400 MHz; CDCl₃)



39

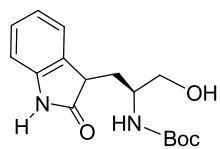
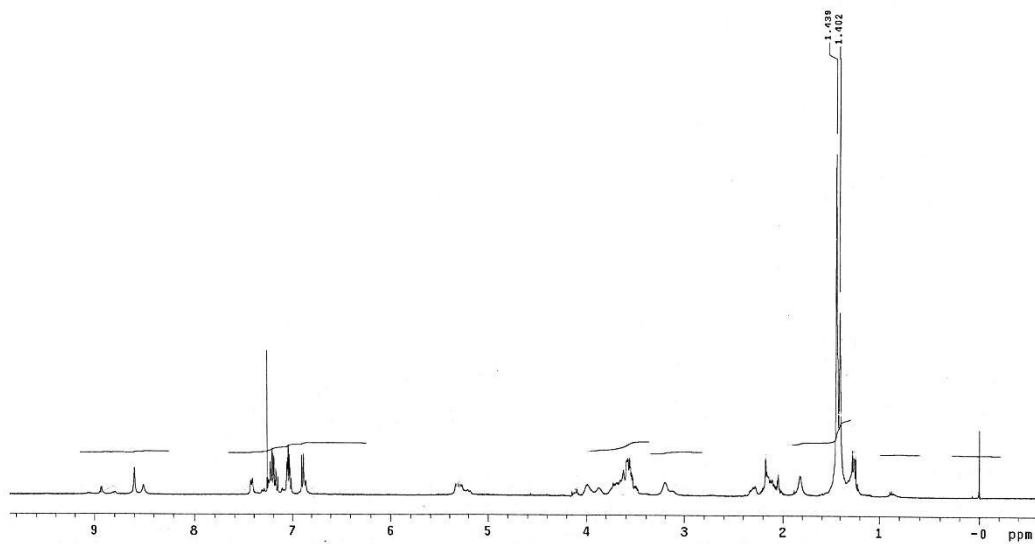
(100.6 MHz; CDCl₃)





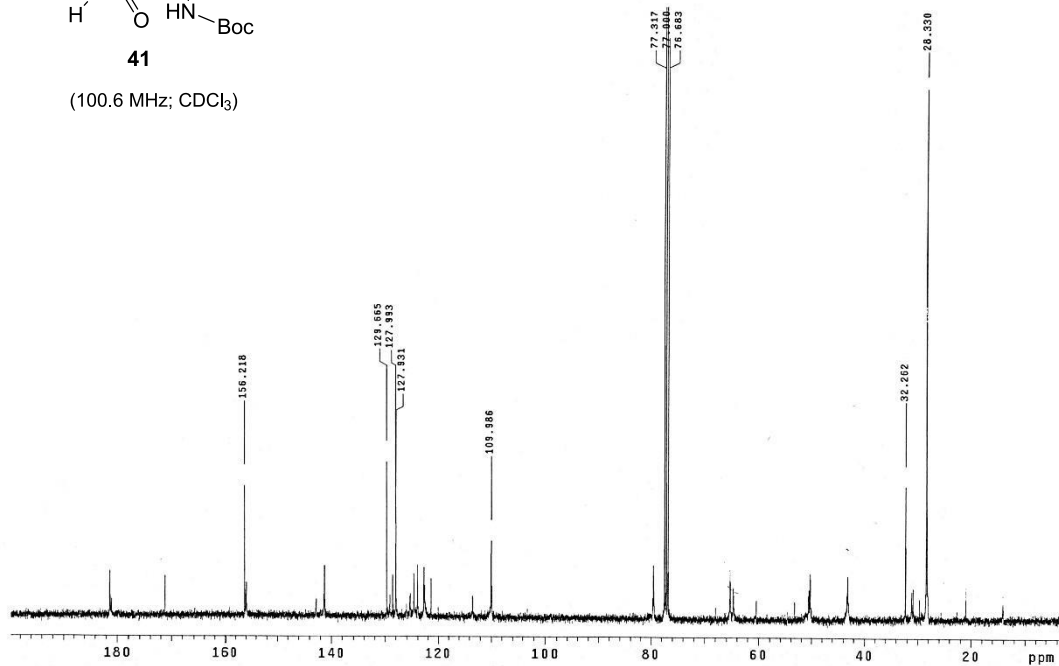
41

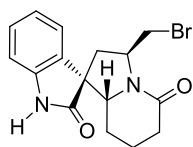
(400 MHz; CDCl₃)



41

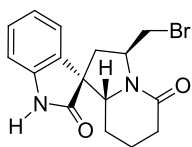
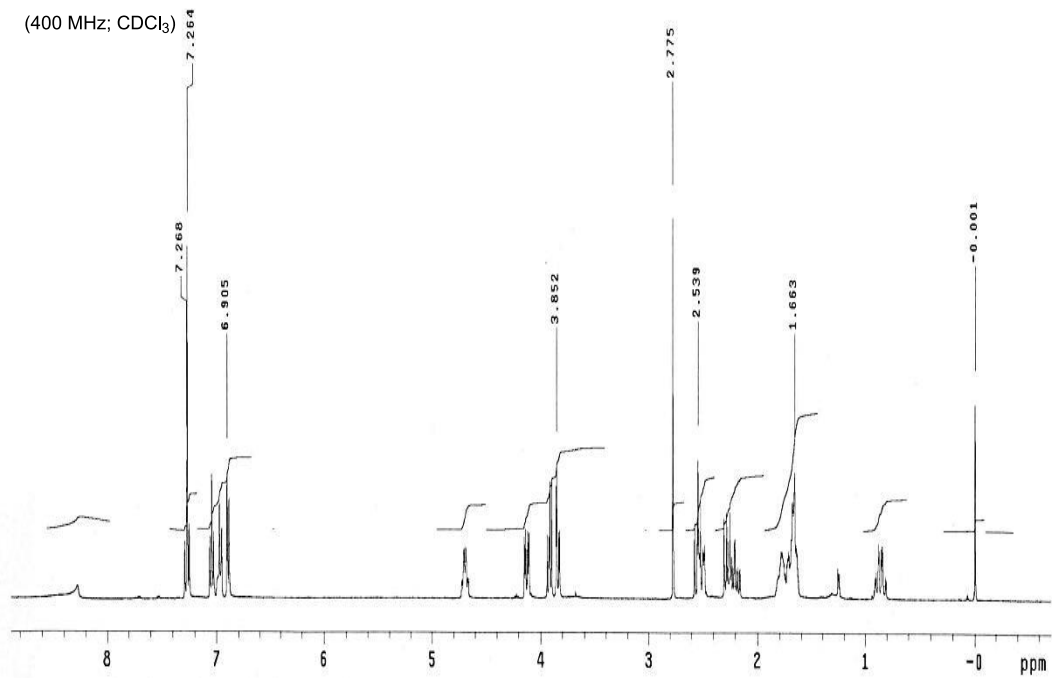
(100.6 MHz; CDCl₃)





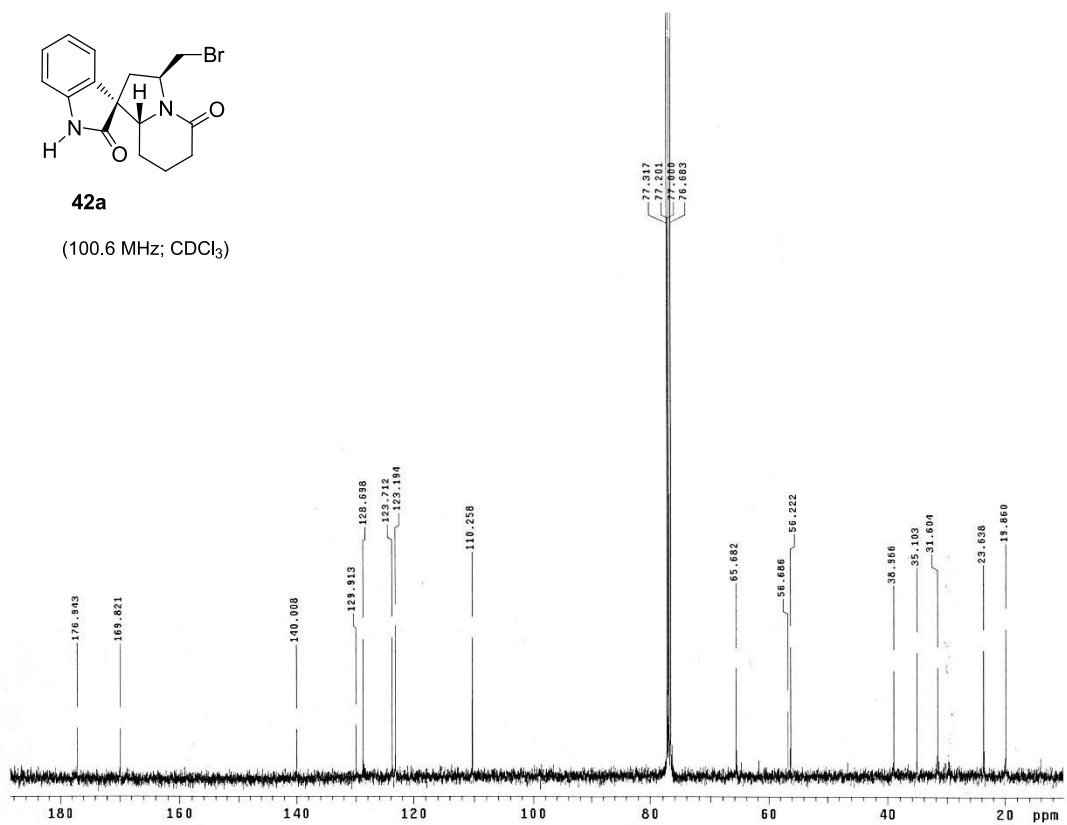
42a

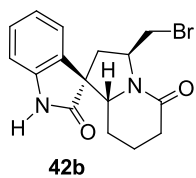
(400 MHz; CDCl₃)



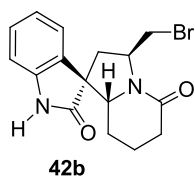
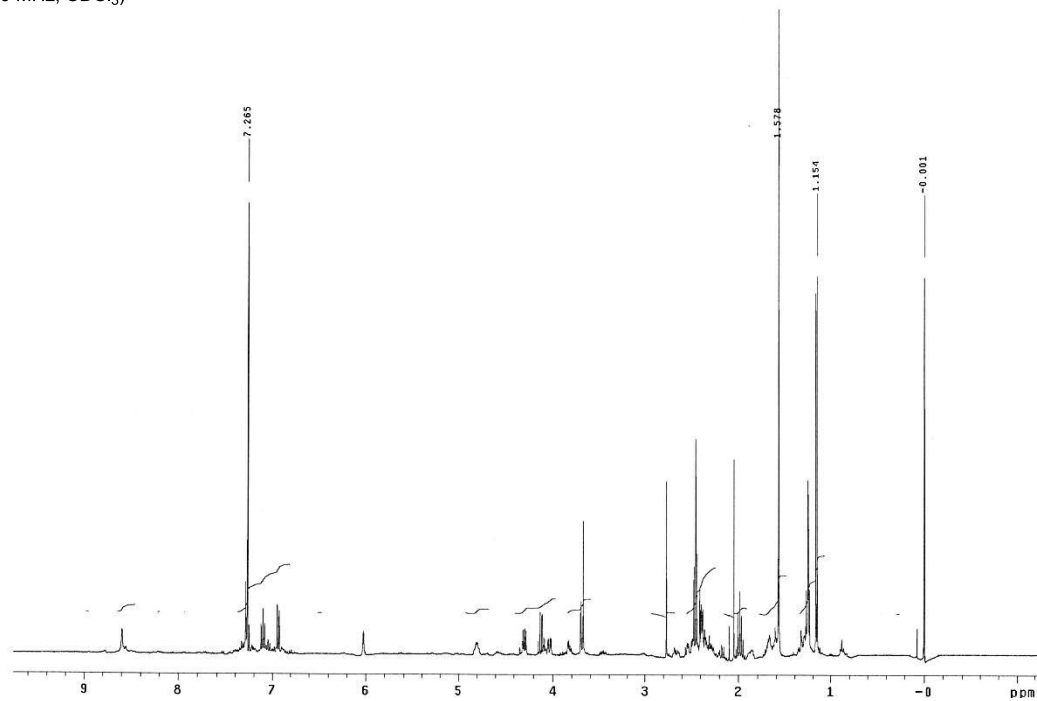
42a

(100.6 MHz; CDCl₃)

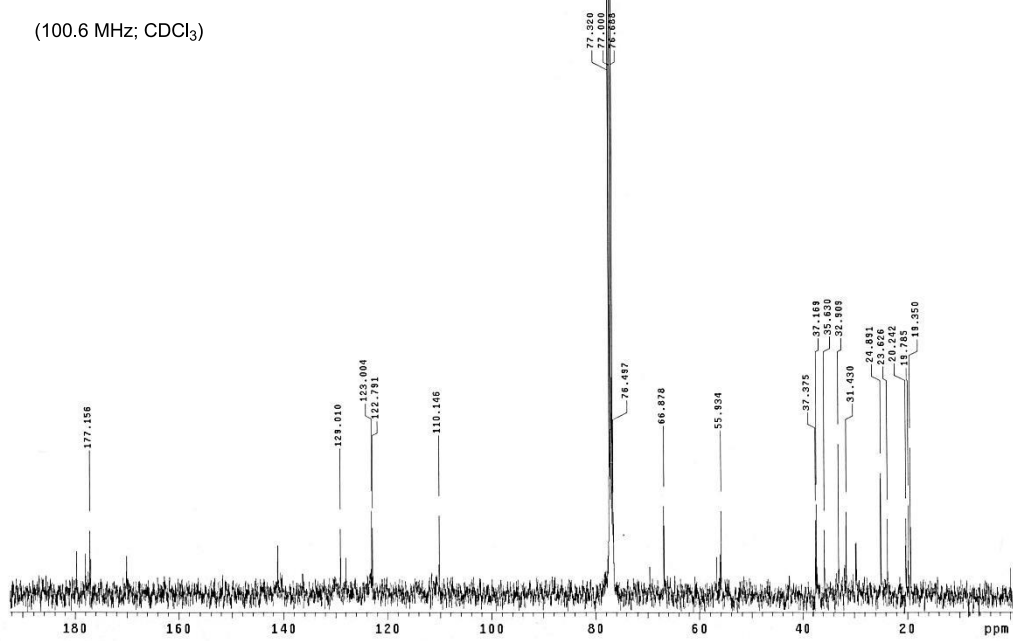


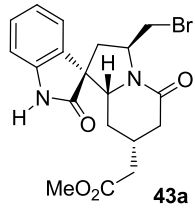


(300 MHz; CDCl₃)

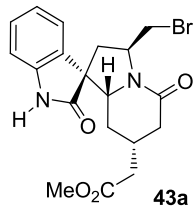
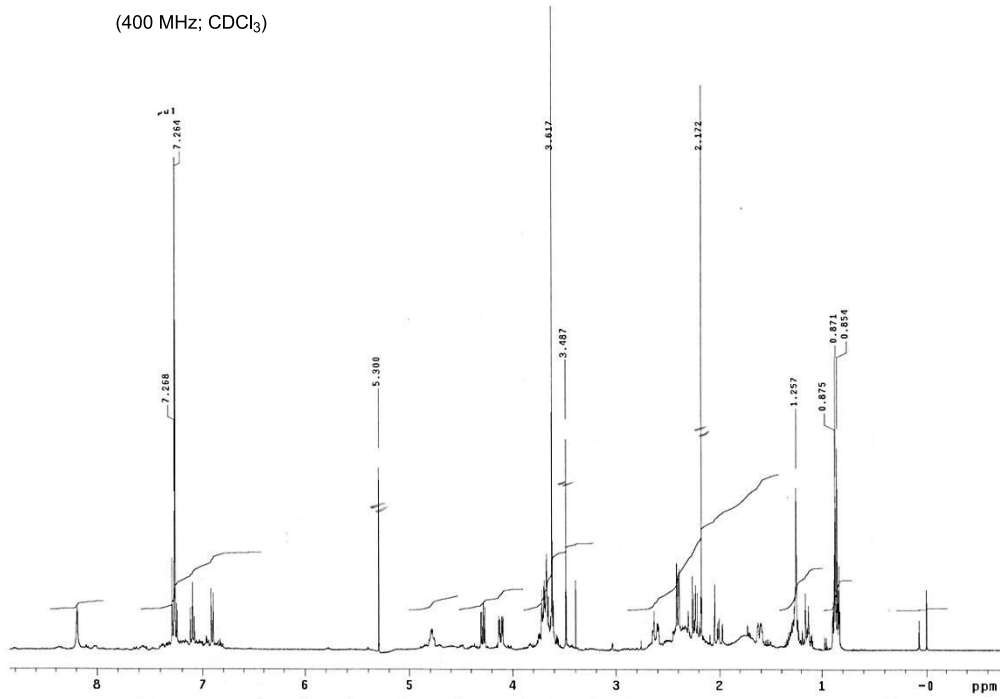


(100.6 MHz; CDCl₃)

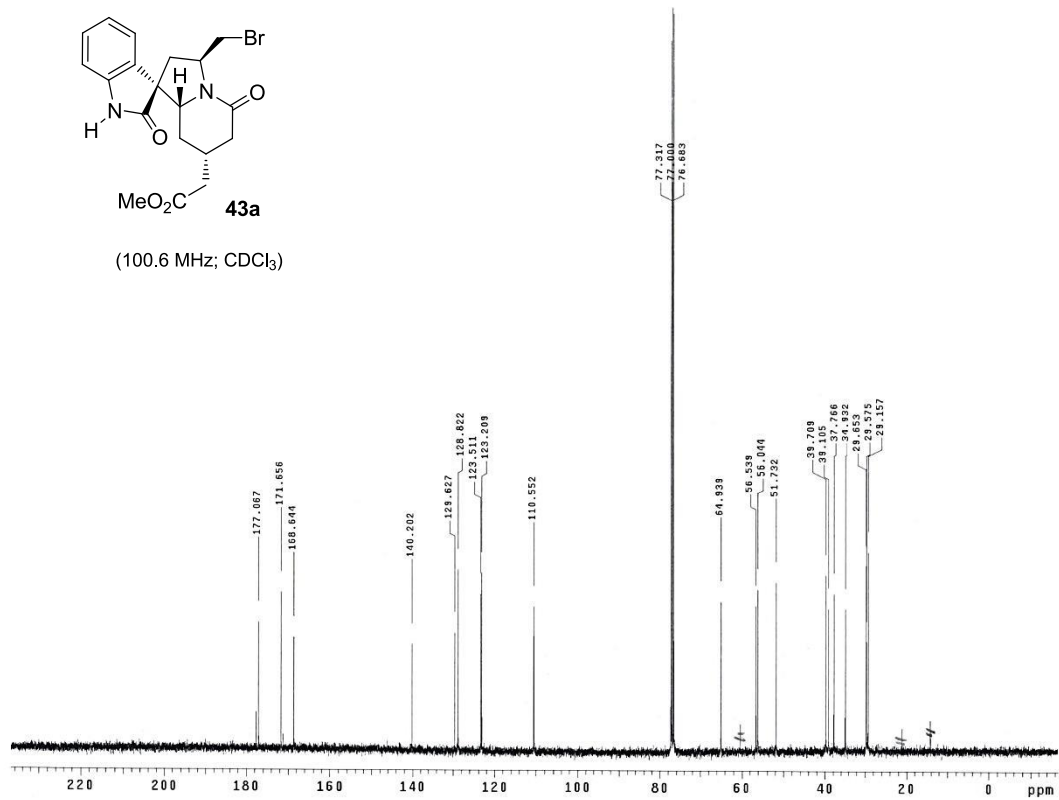


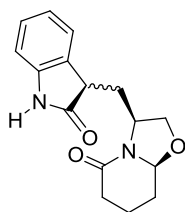


(400 MHz; CDCl₃)



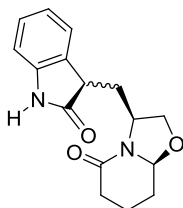
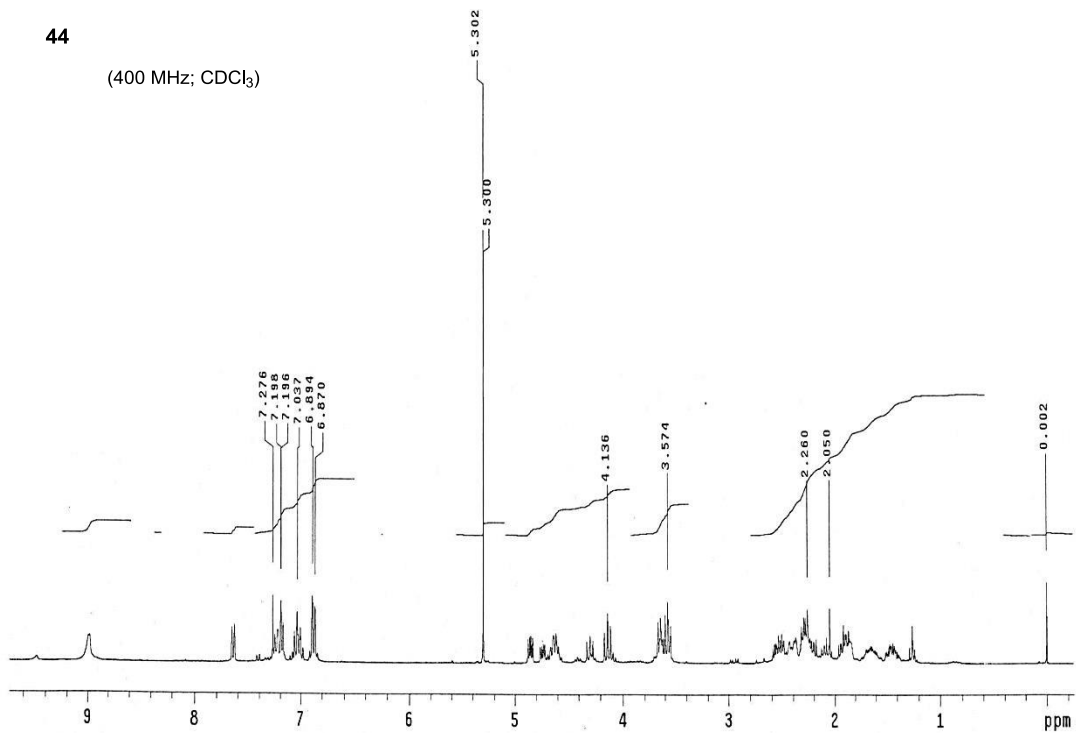
(100.6 MHz; CDCl₃)





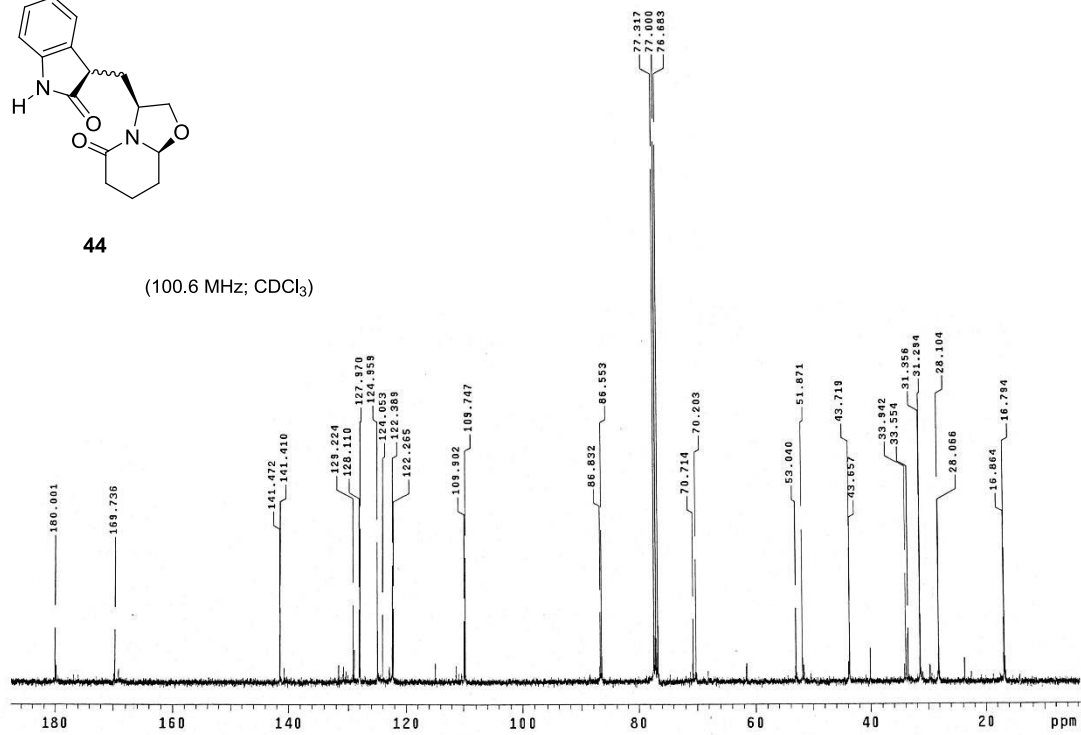
44

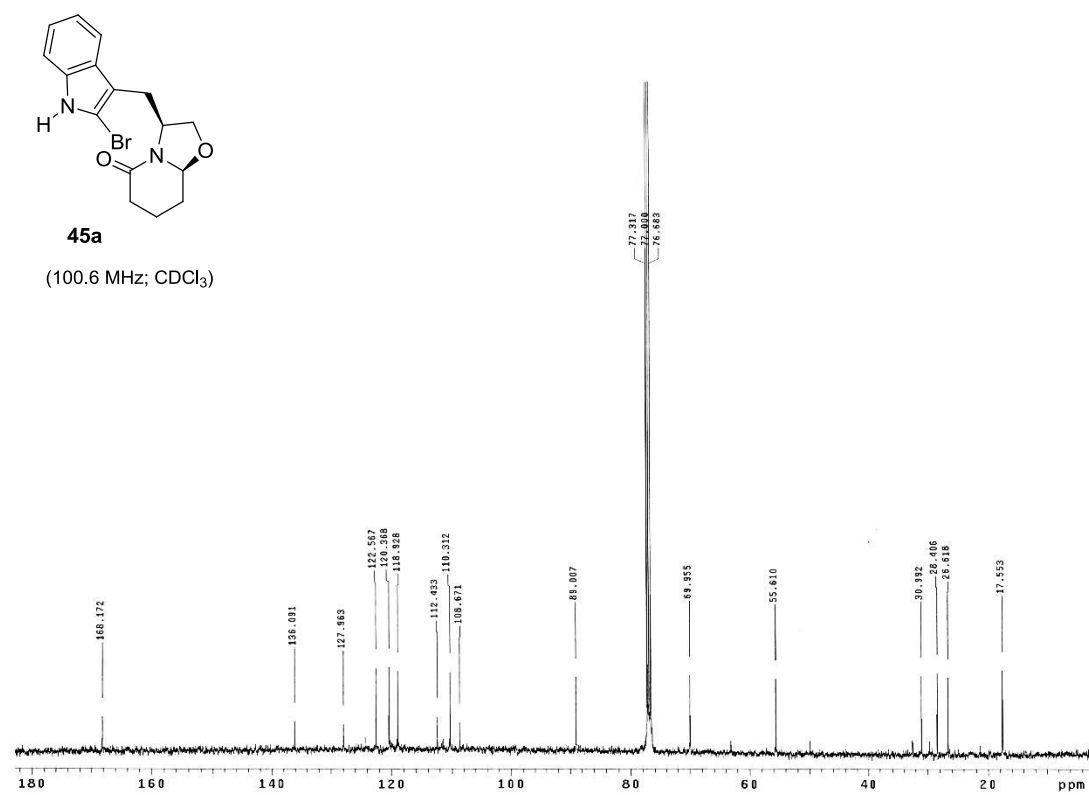
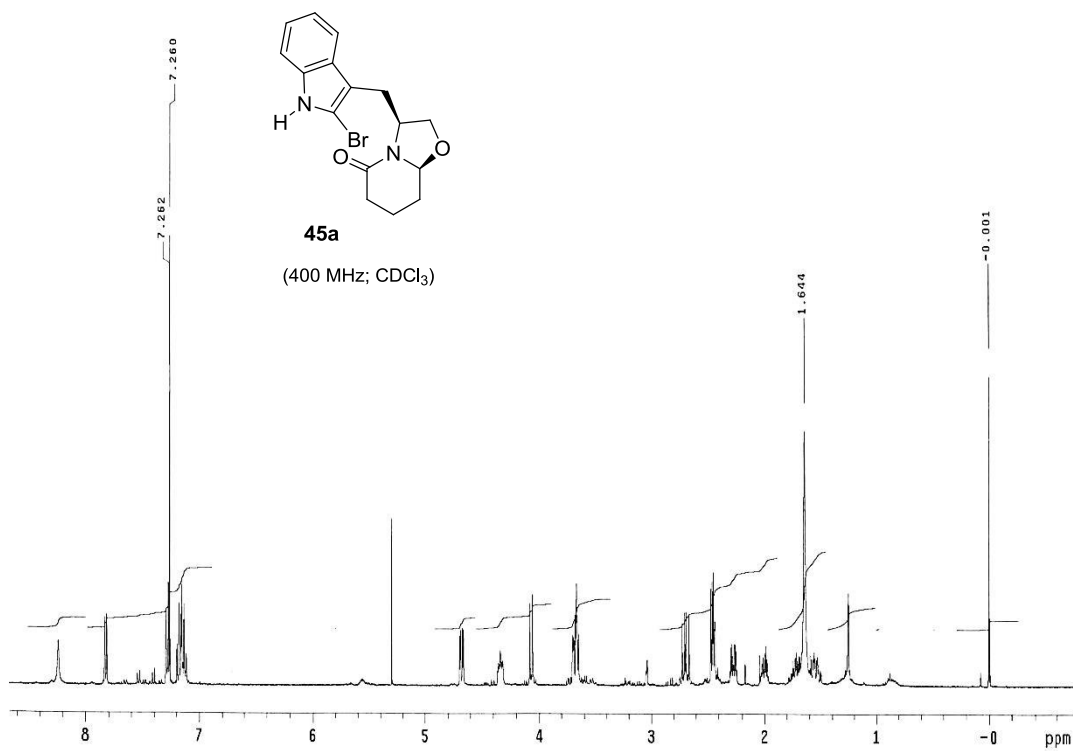
(400 MHz; CDCl₃)

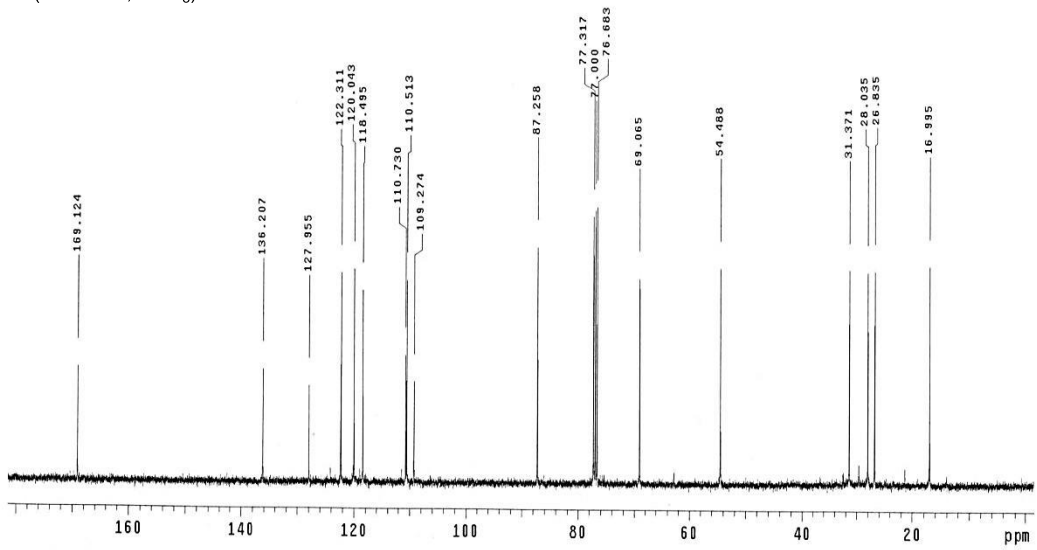
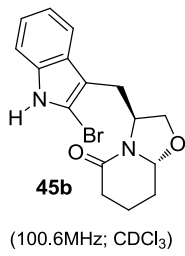
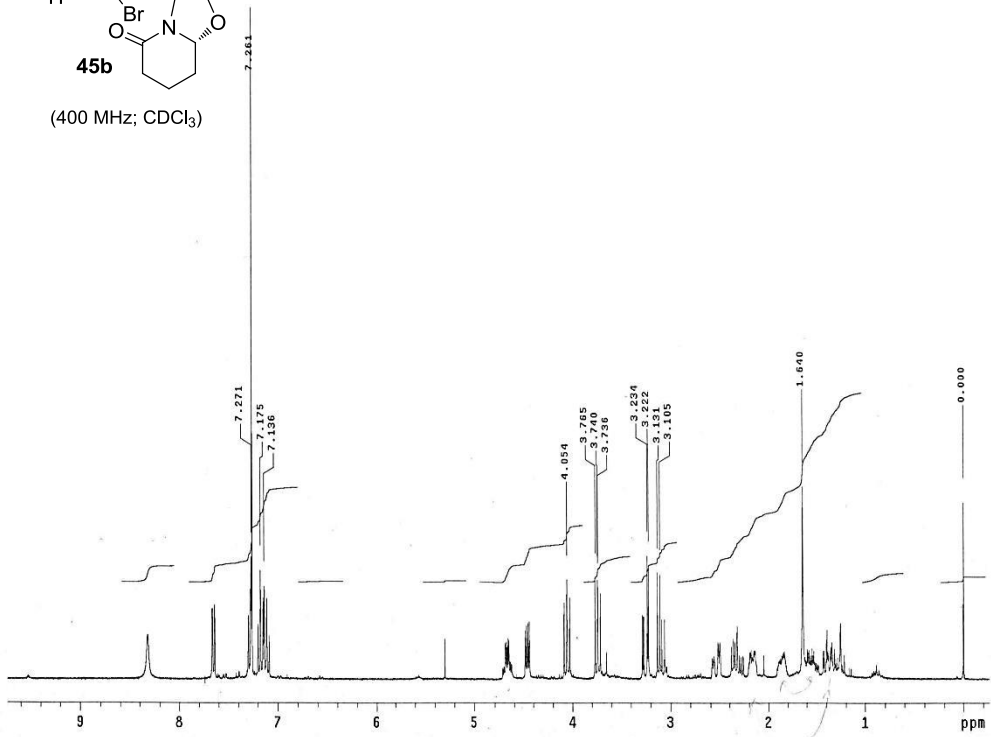
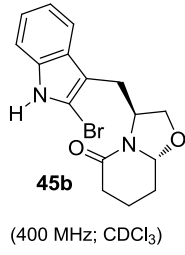


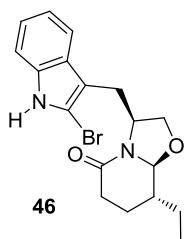
44

(100.6 MHz; CDCl₃)

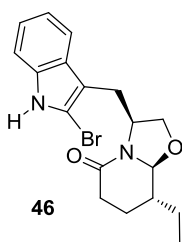
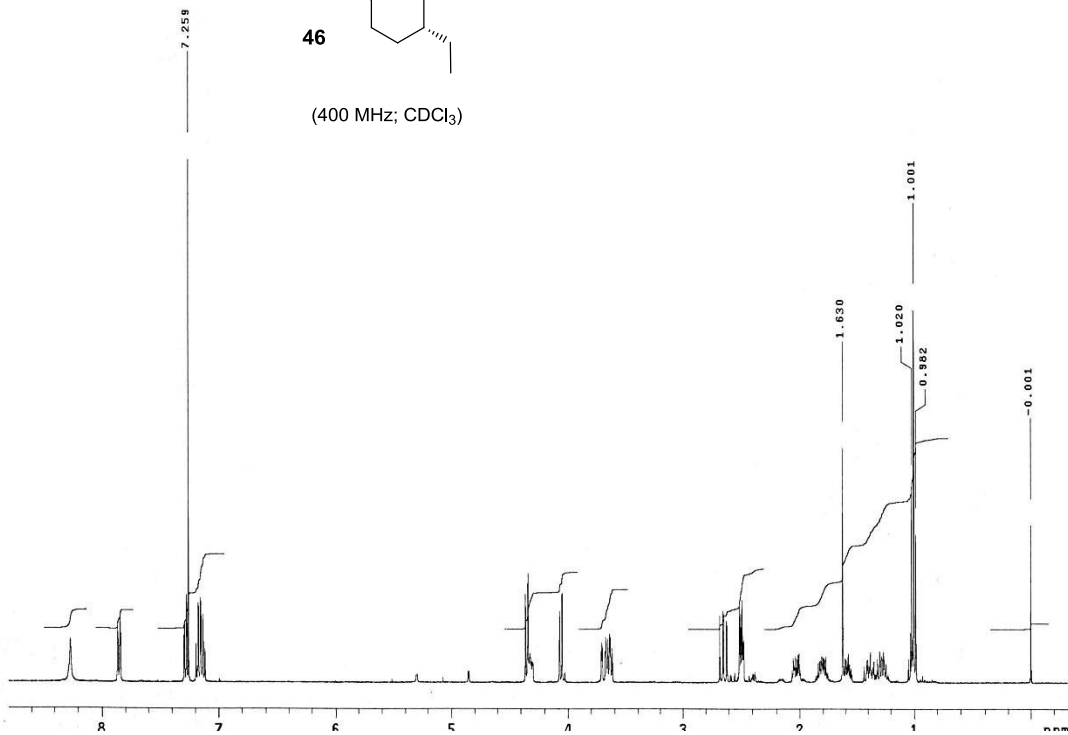




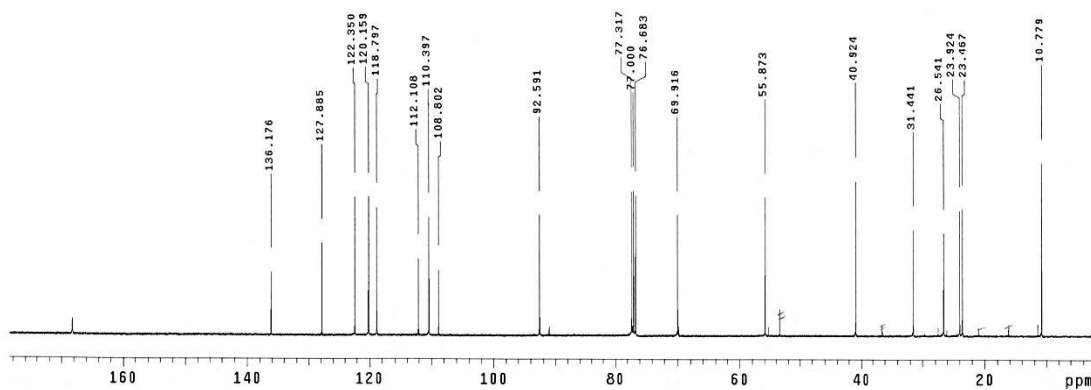


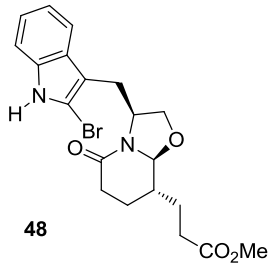


(400 MHz; CDCl₃)

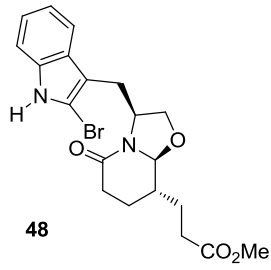
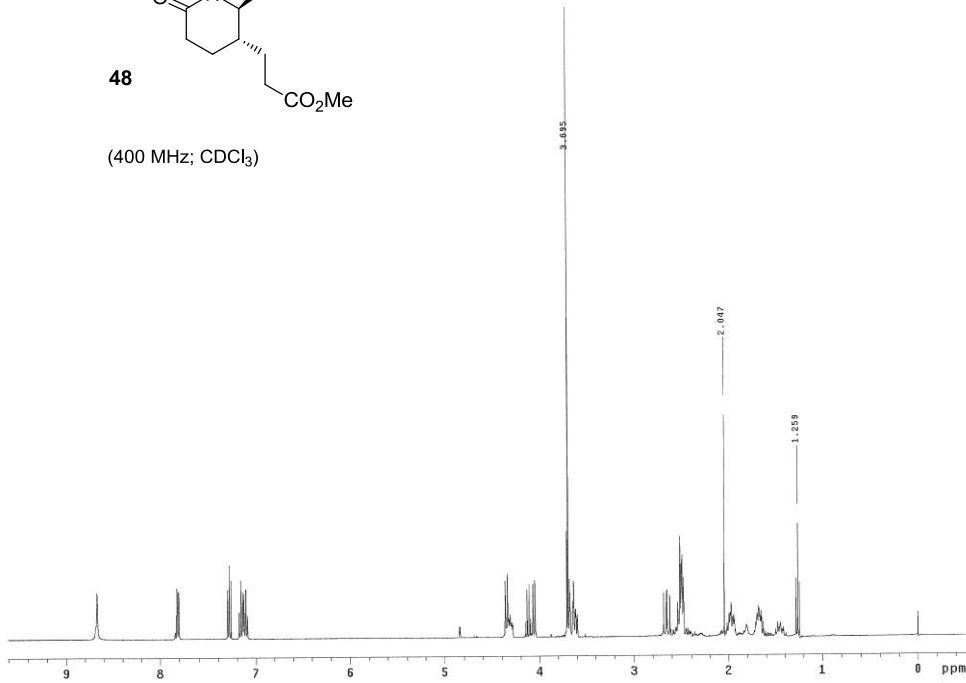


(100.6 MHz; CDCl₃)

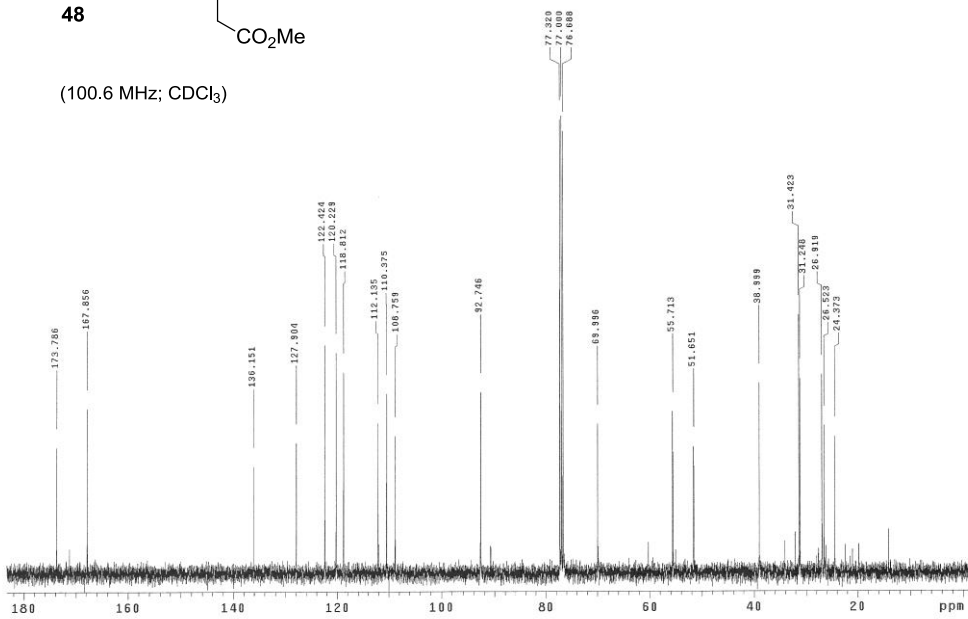


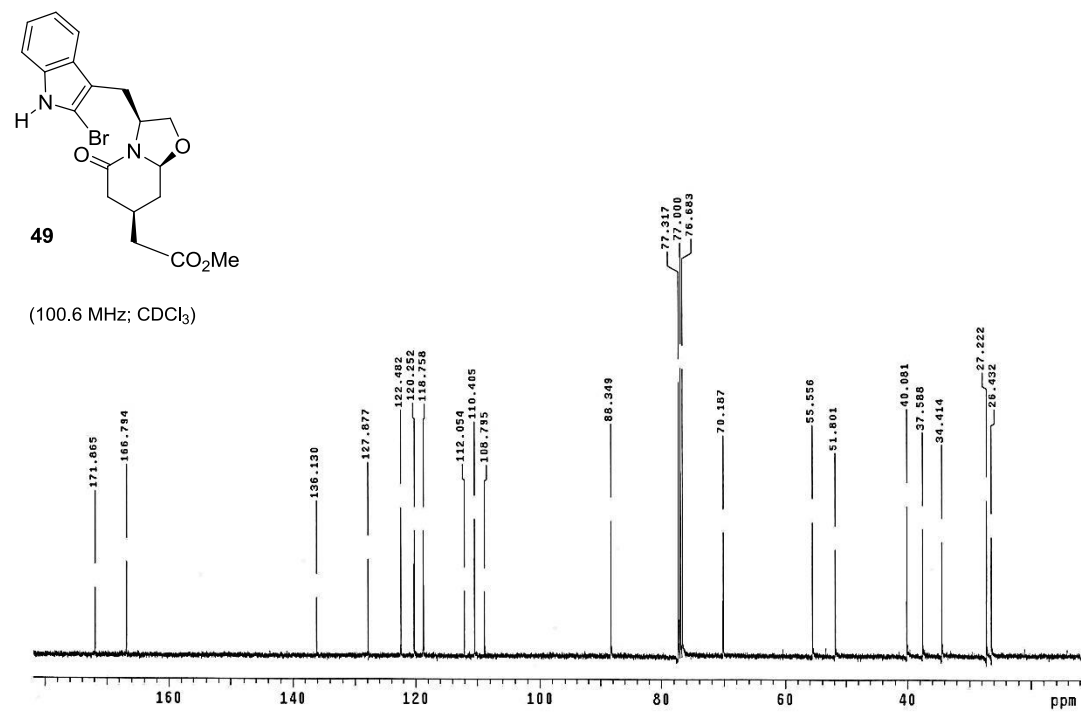
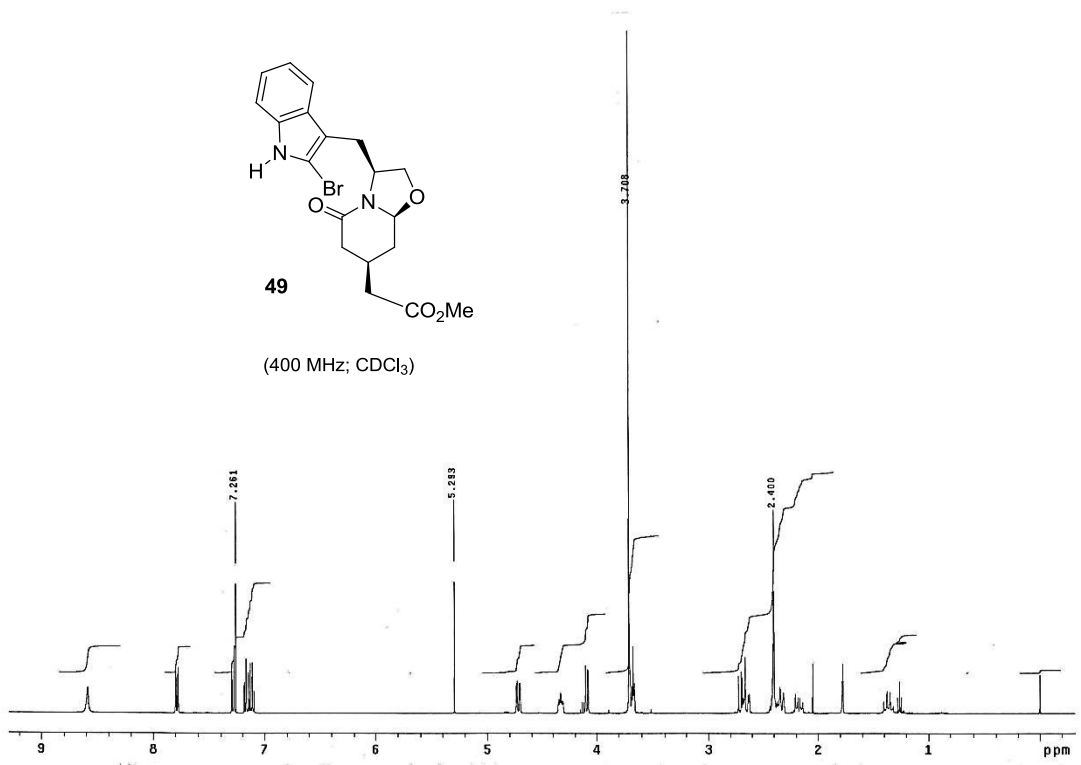


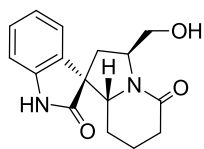
(400 MHz; CDCl₃)



(100.6 MHz; CDCl₃)

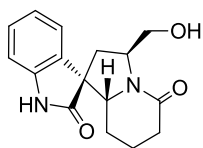
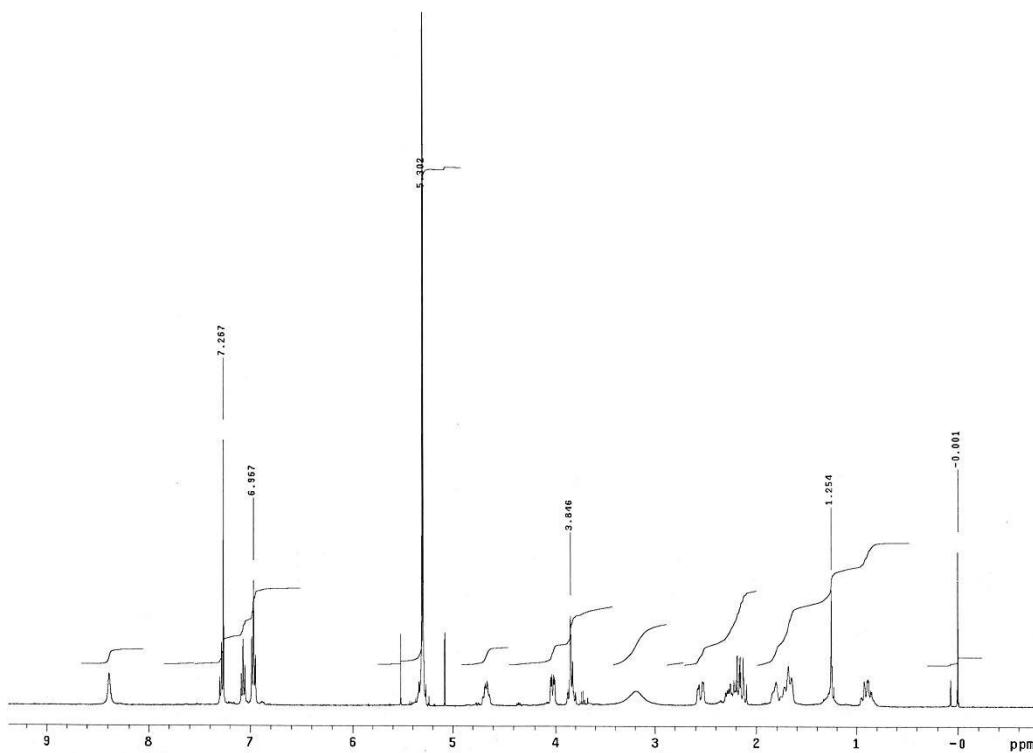






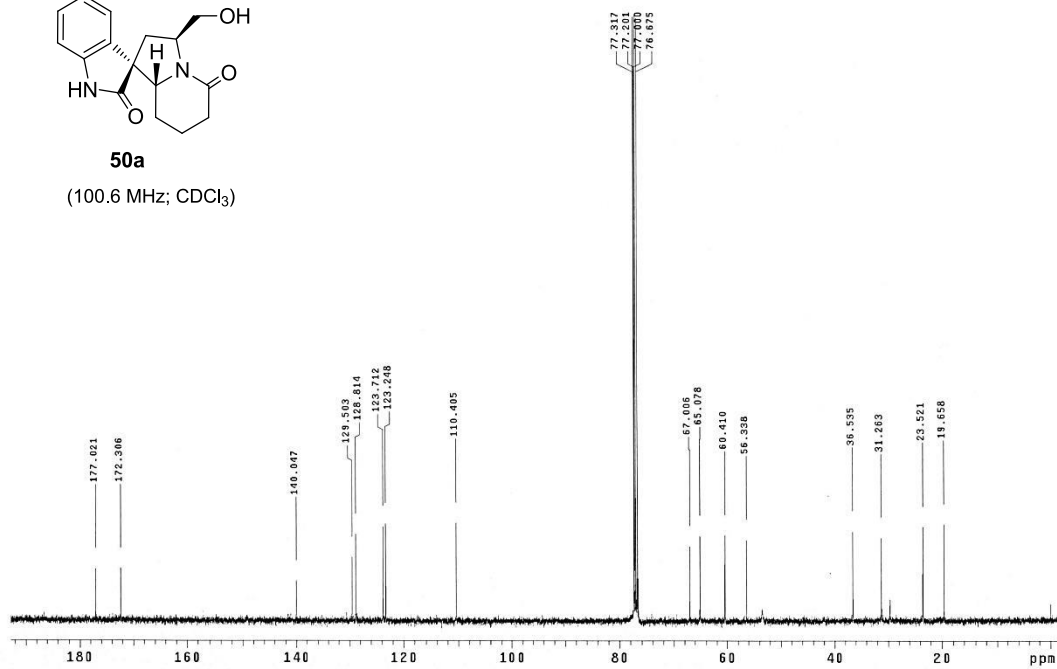
50a

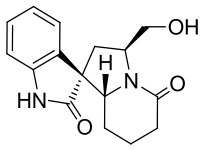
(400 MHz; CDCl₃)



50a

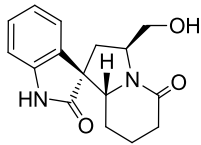
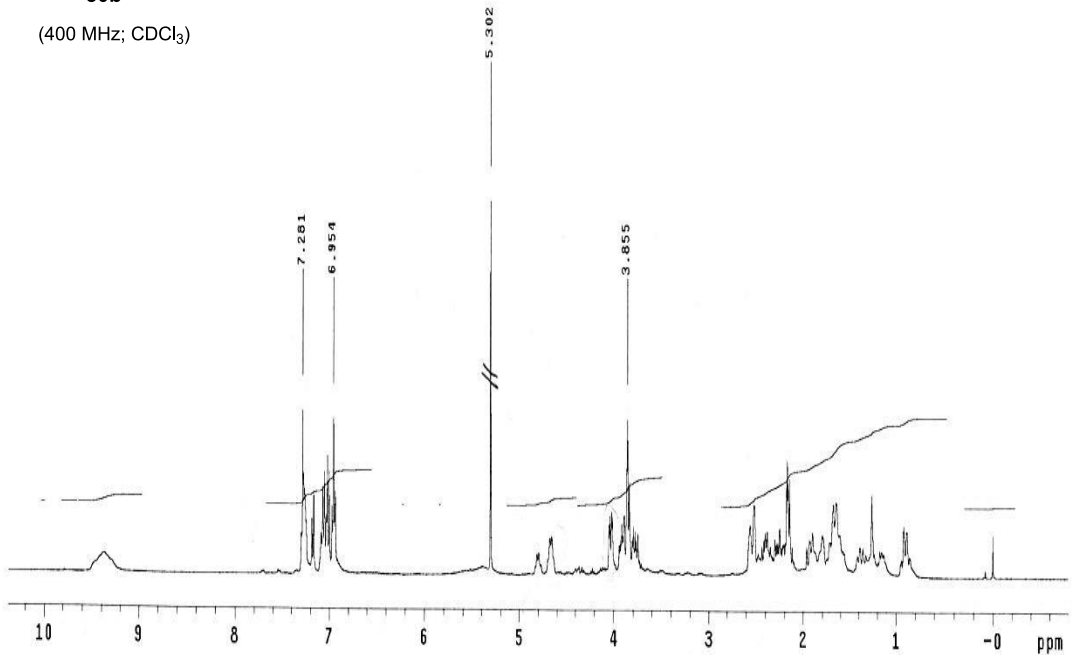
(100.6 MHz; CDCl₃)





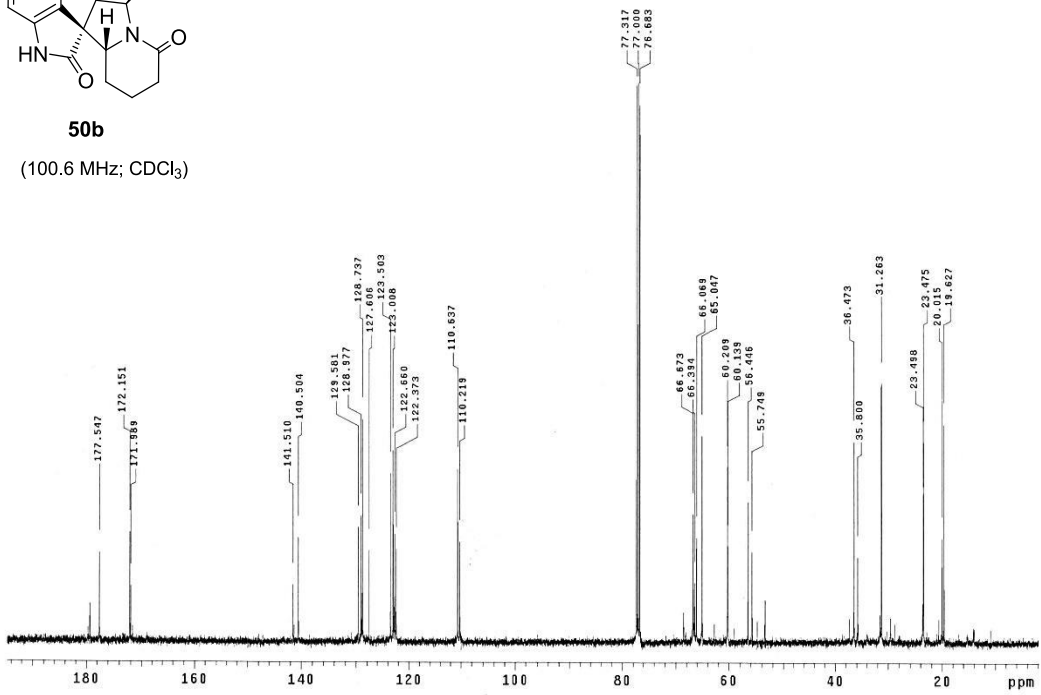
50b

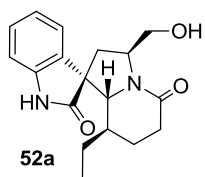
(400 MHz; CDCl₃)



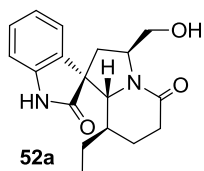
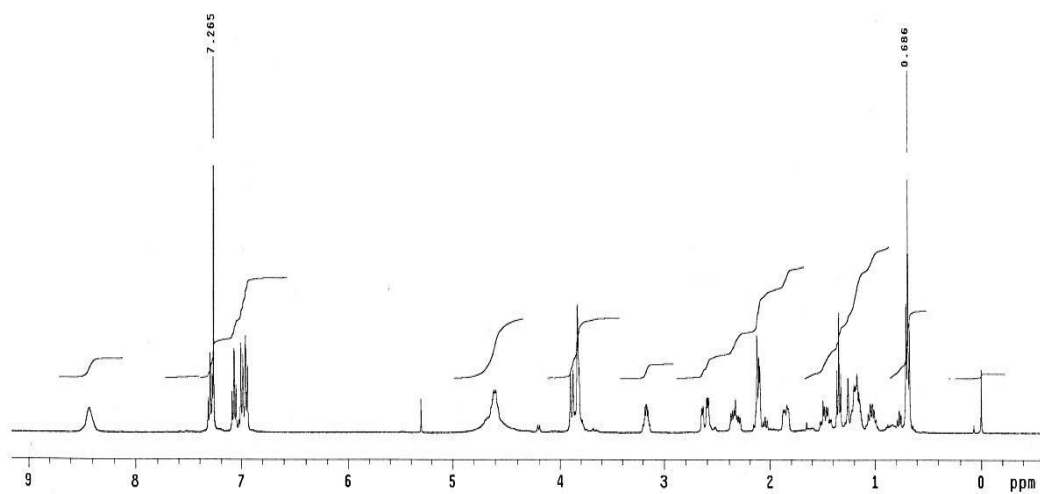
50b

(100.6 MHz; CDCl₃)

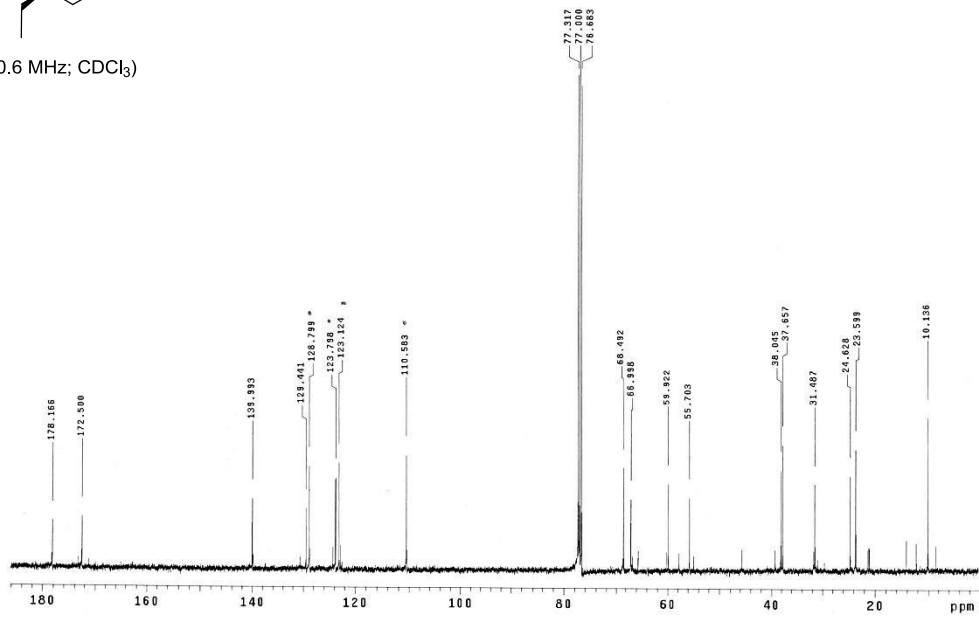


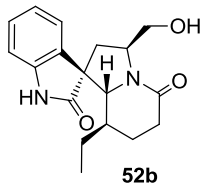


(400 MHz; CDCl₃)

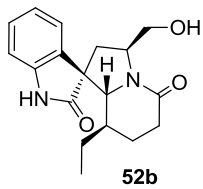
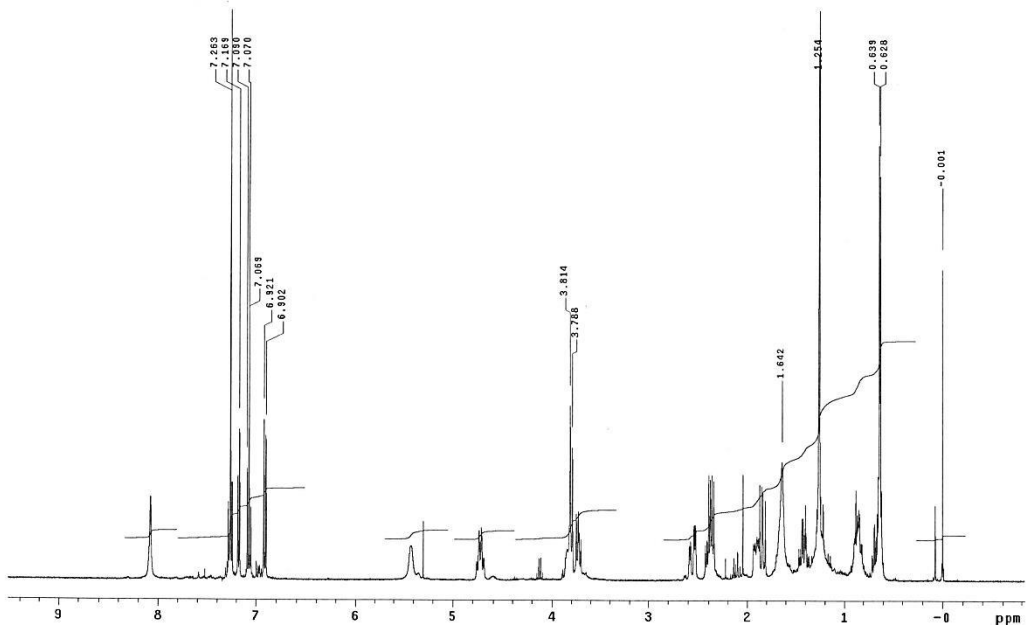


(100.6 MHz; CDCl₃)

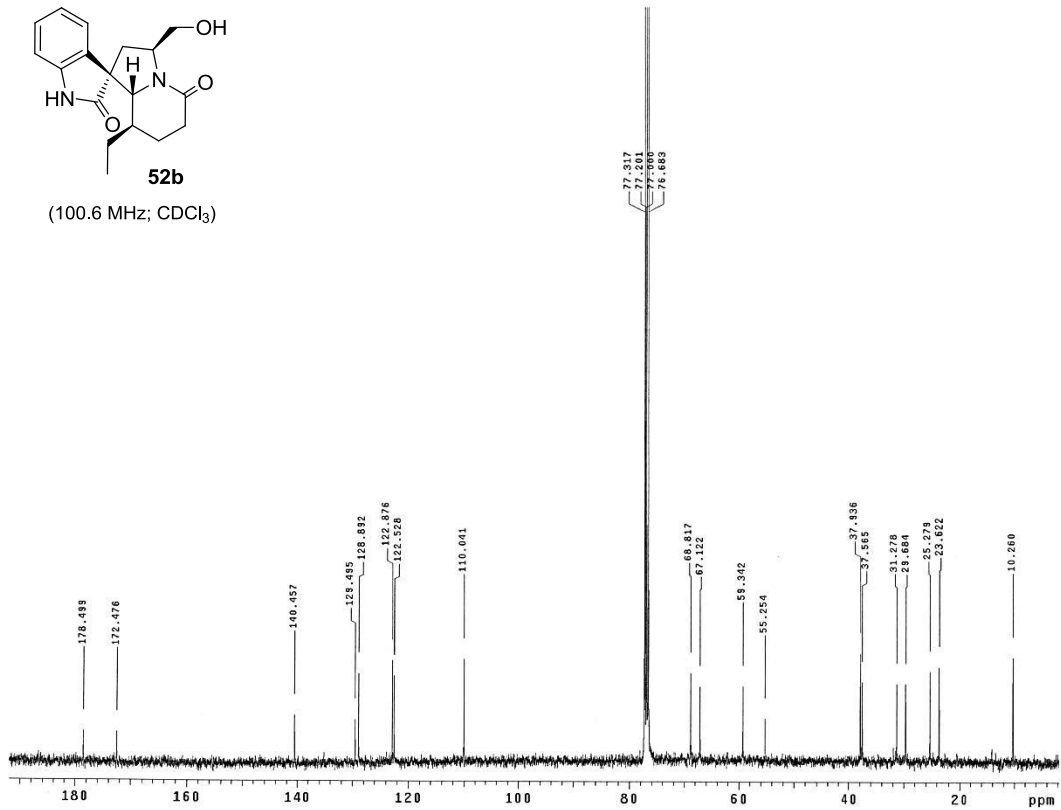


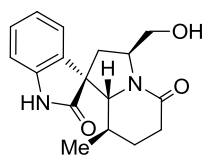


(400 MHz; CDCl₃)



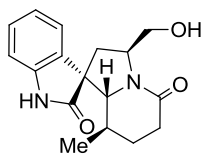
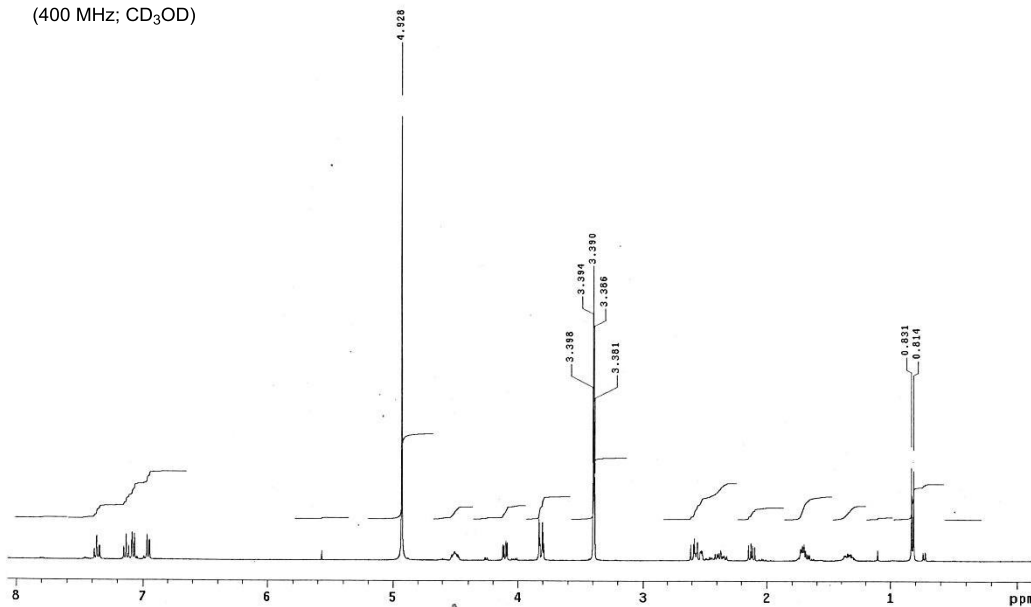
(100.6 MHz; CDCl₃)





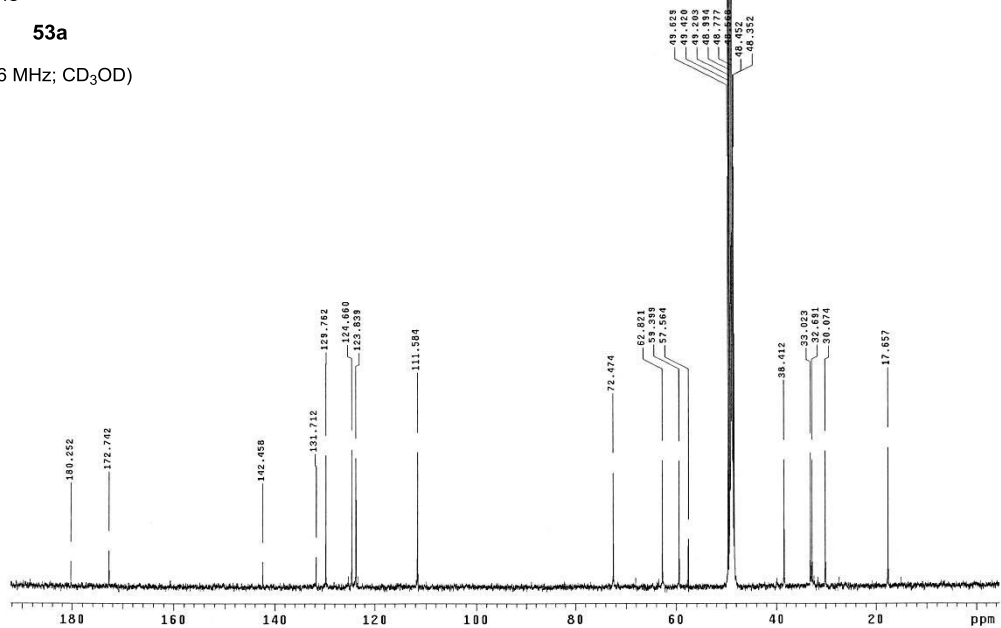
53a

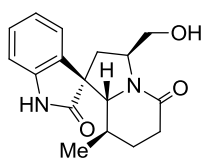
(400 MHz; CD₃OD)



53a

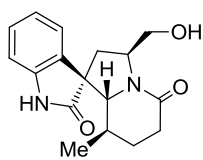
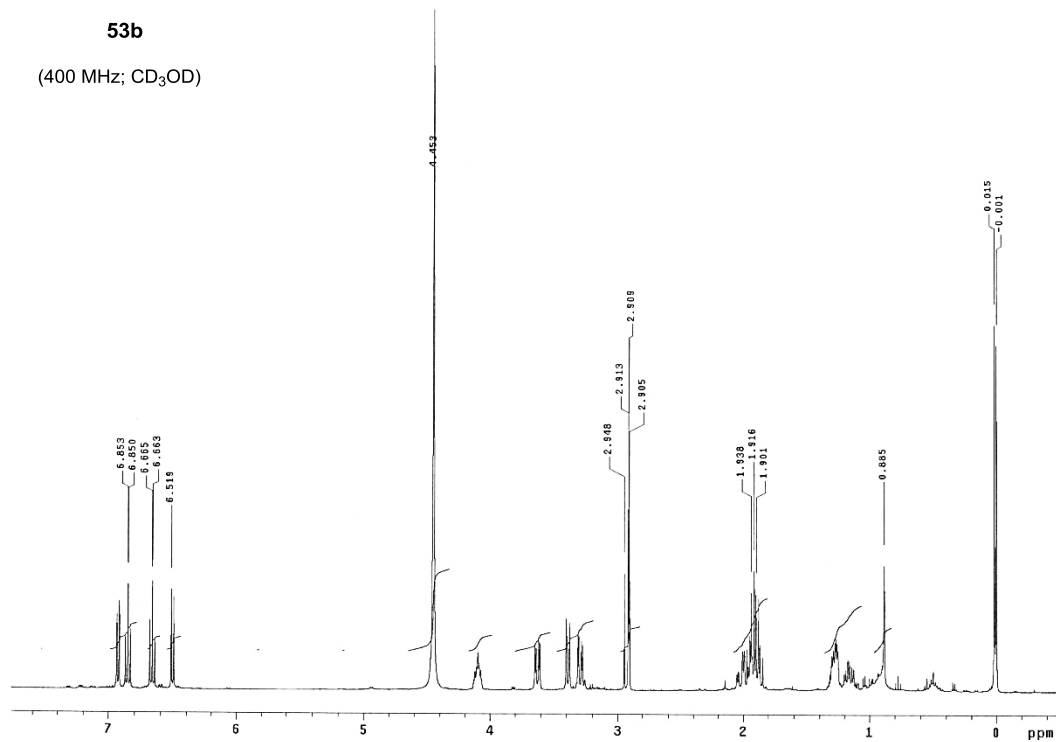
(100.6 MHz; CD₃OD)





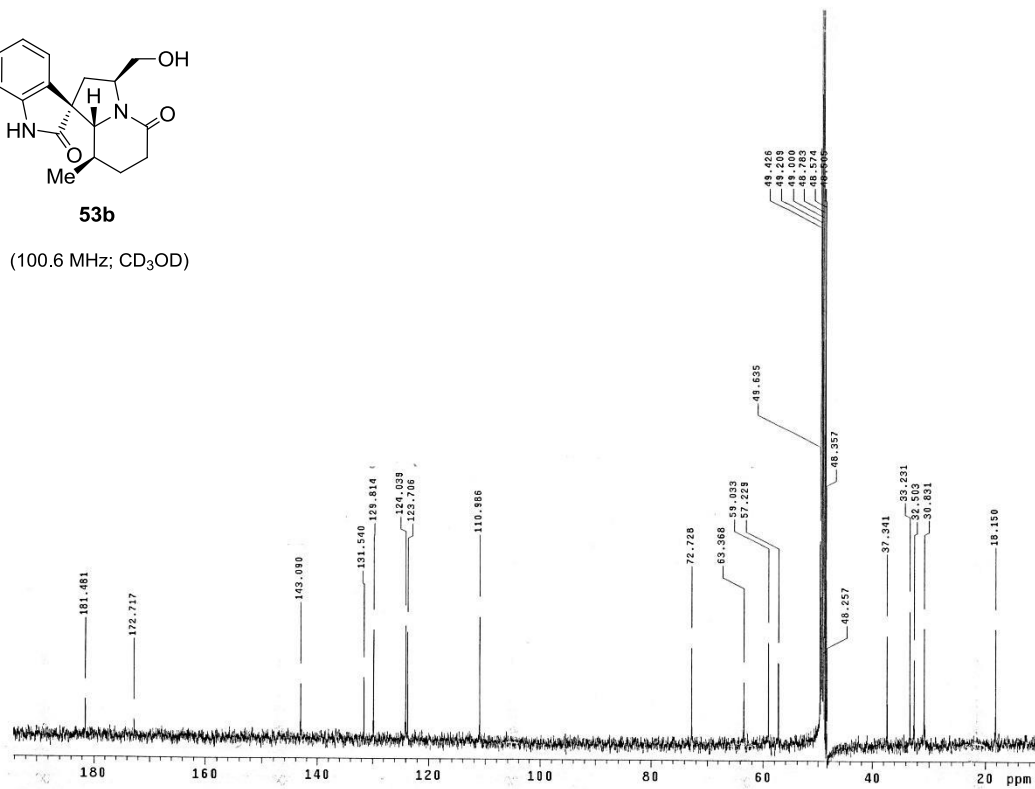
53b

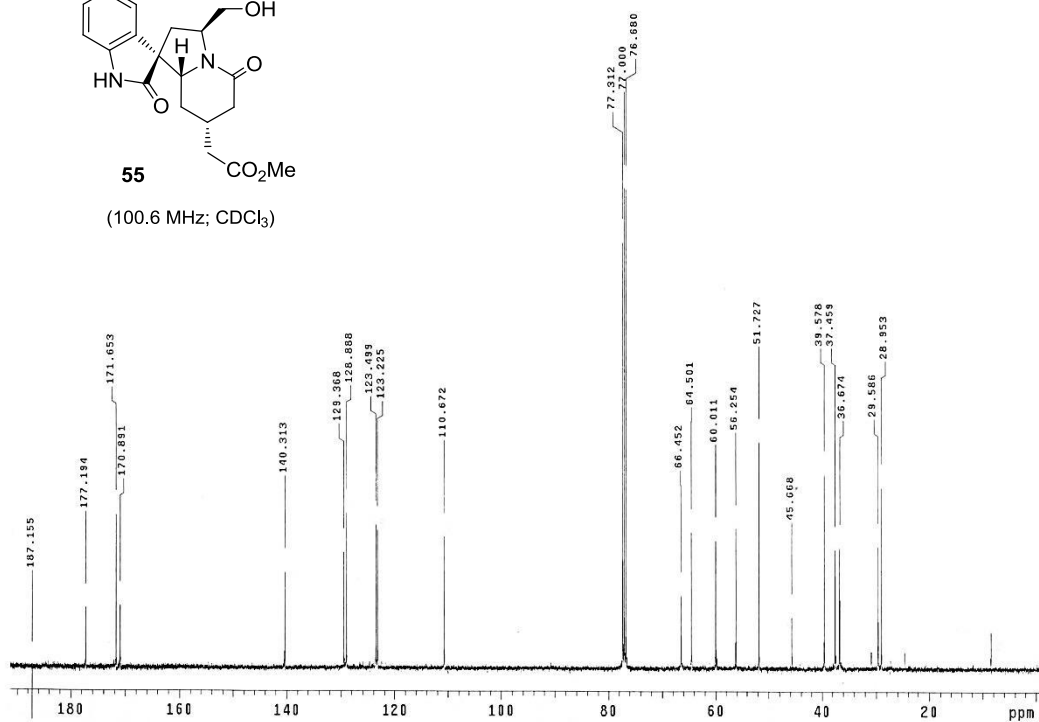
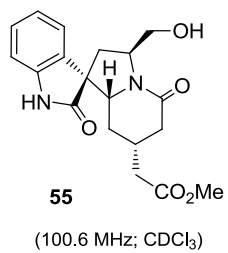
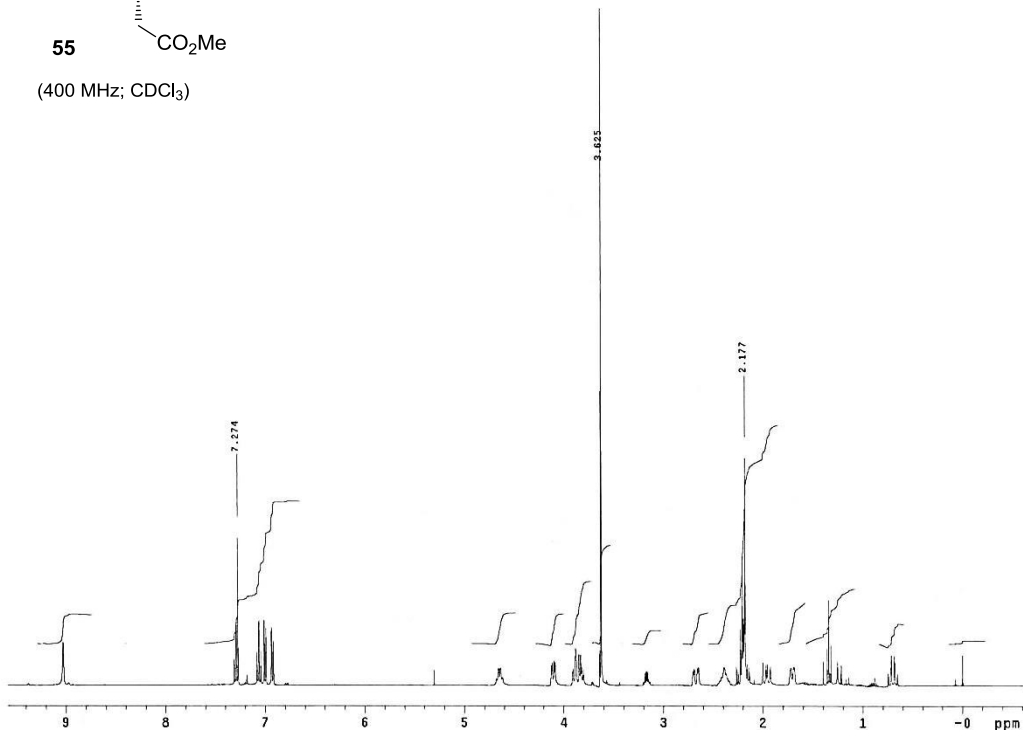
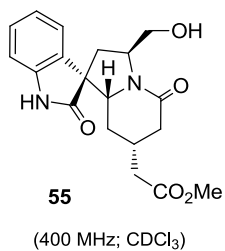
(400 MHz; CD₃OD)

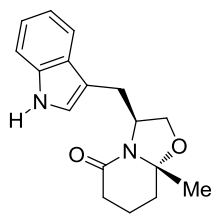


53b

(100.6 MHz; CD₃OD)

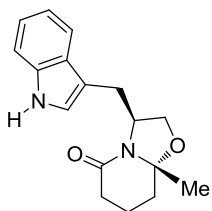
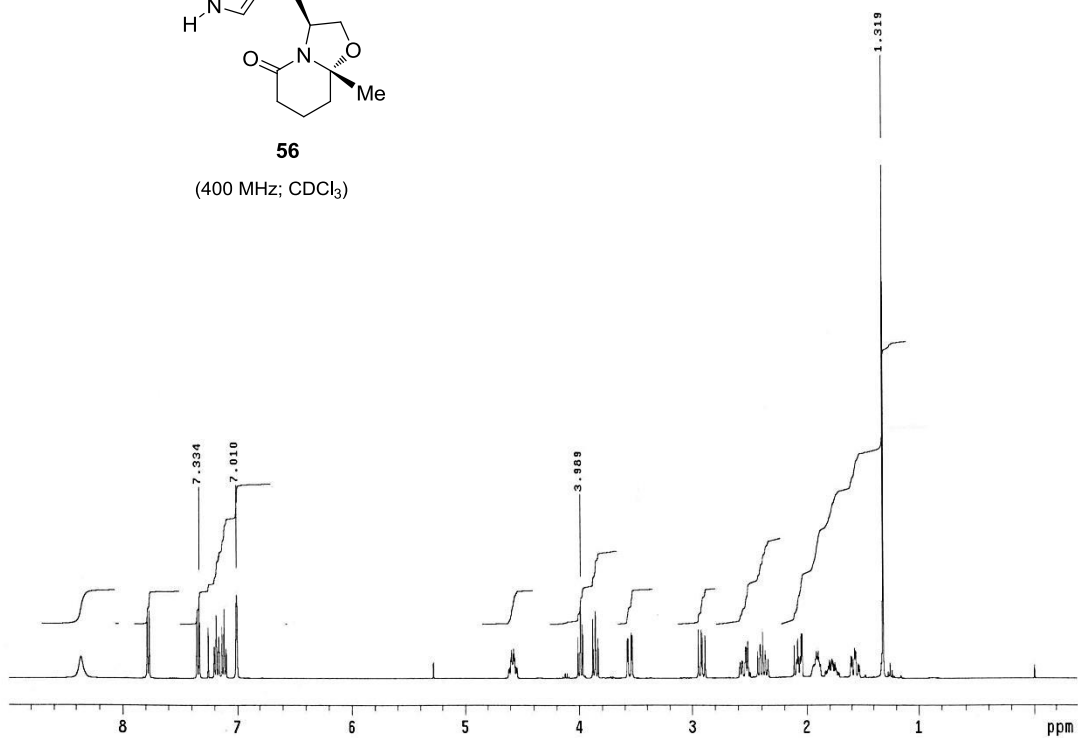






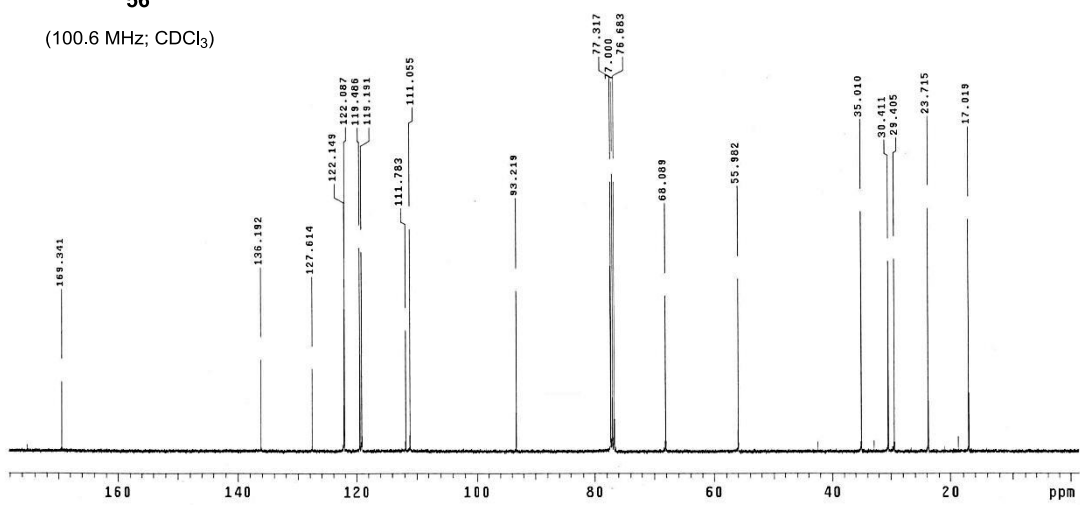
56

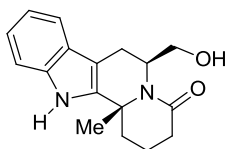
(400 MHz; CDCl₃)



56

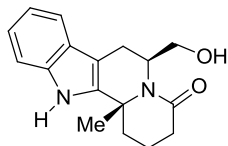
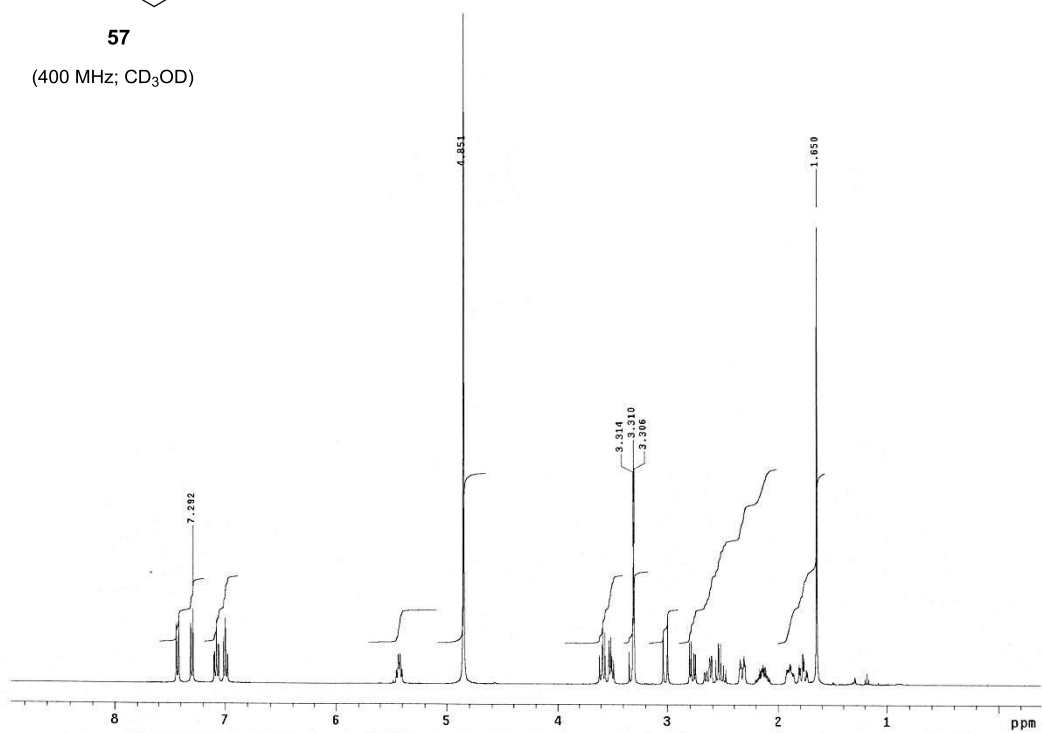
(100.6 MHz; CDCl₃)





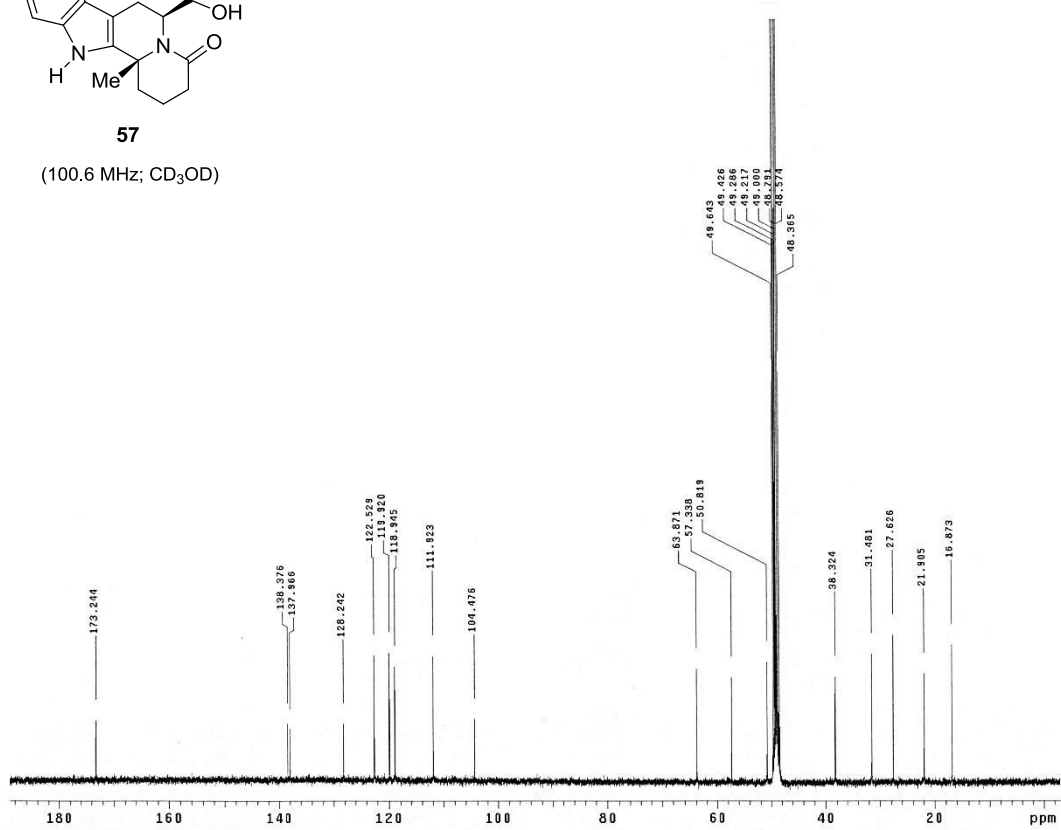
57

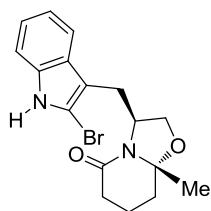
(400 MHz; CD₃OD)



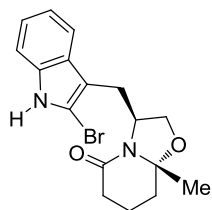
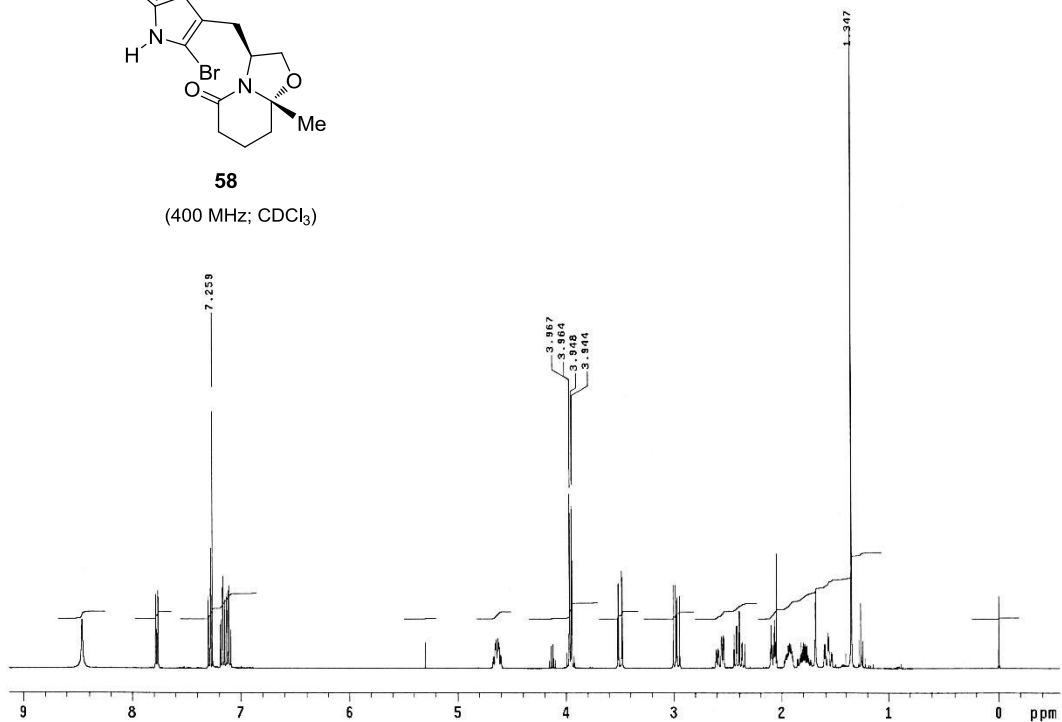
57

(100.6 MHz; CD₃OD)

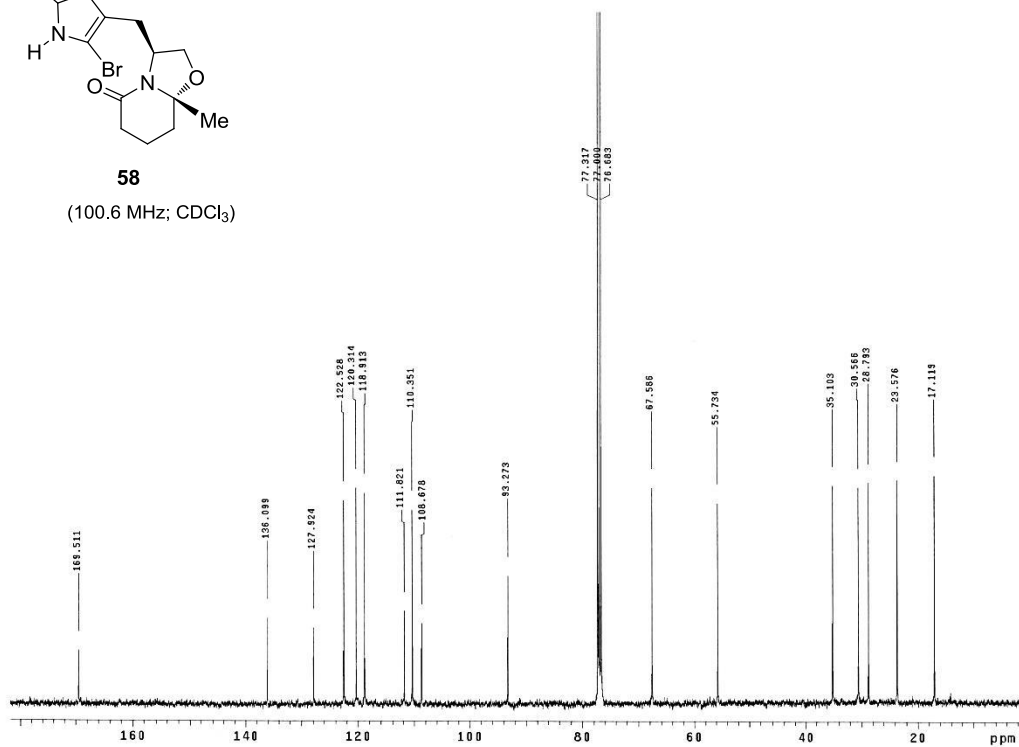


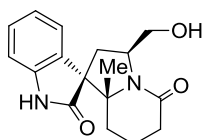


58
(400 MHz; CDCl₃)



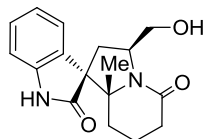
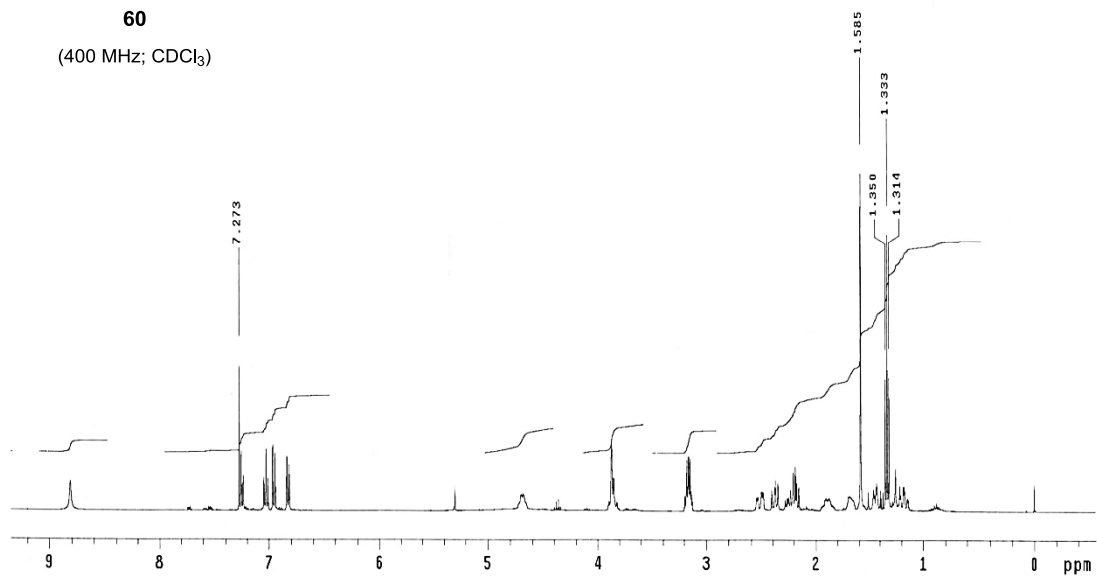
58
(100.6 MHz; CDCl₃)





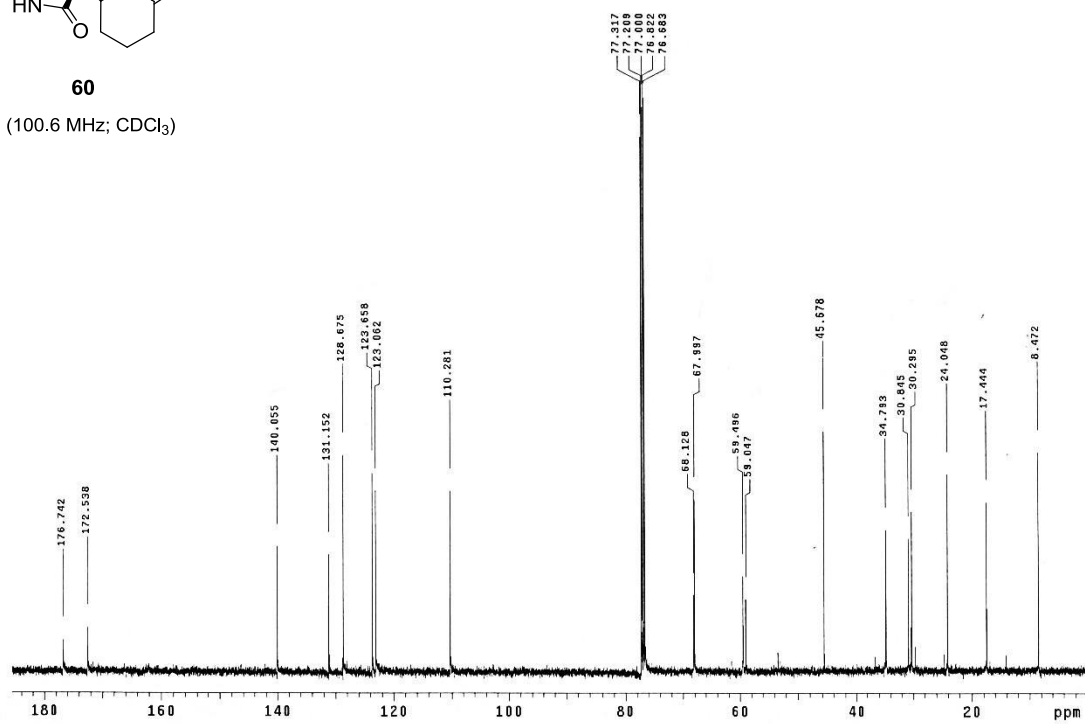
60

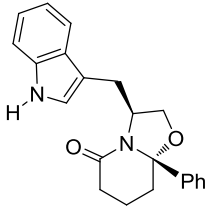
(400 MHz; CDCl₃)



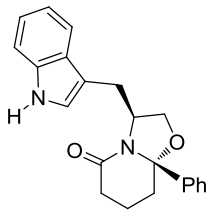
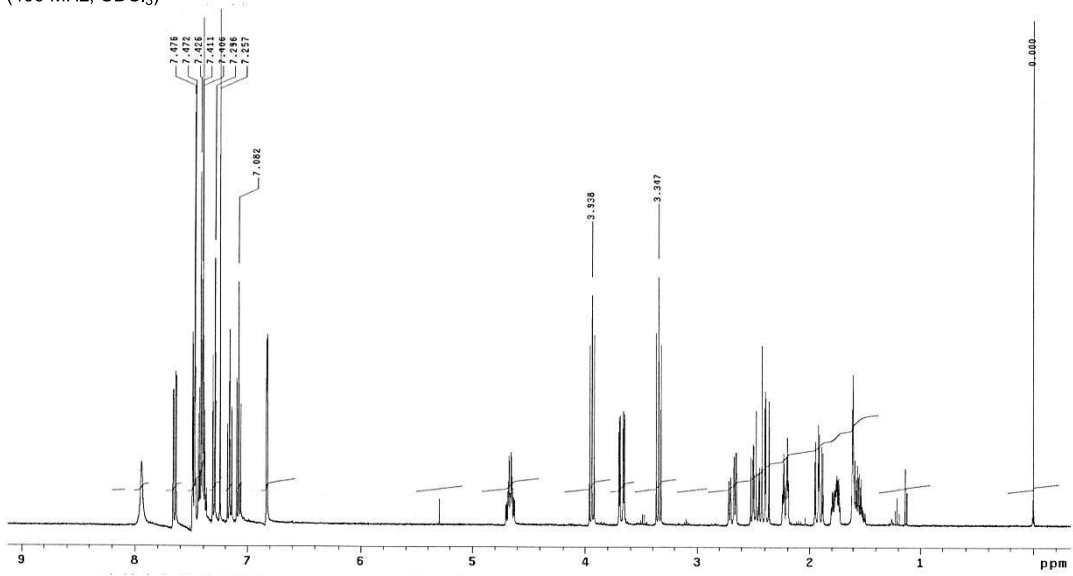
60

(100.6 MHz; CDCl₃)

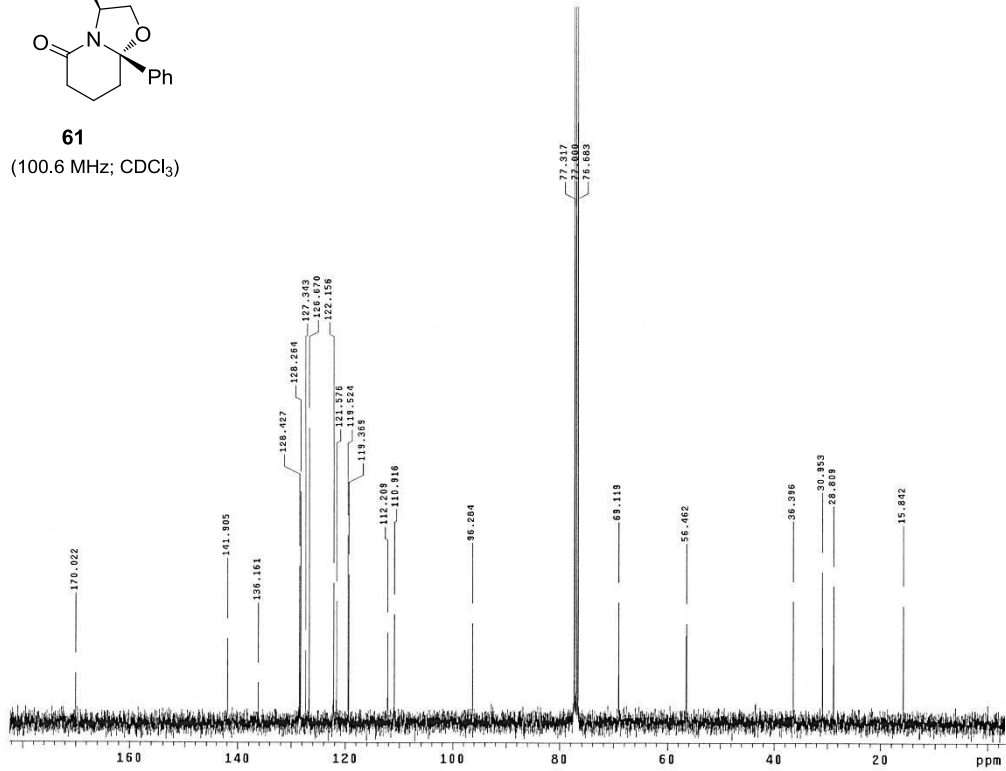


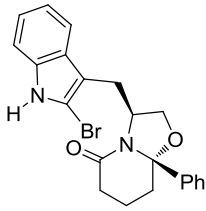


61
(400 MHz; CDCl₃)



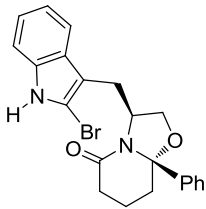
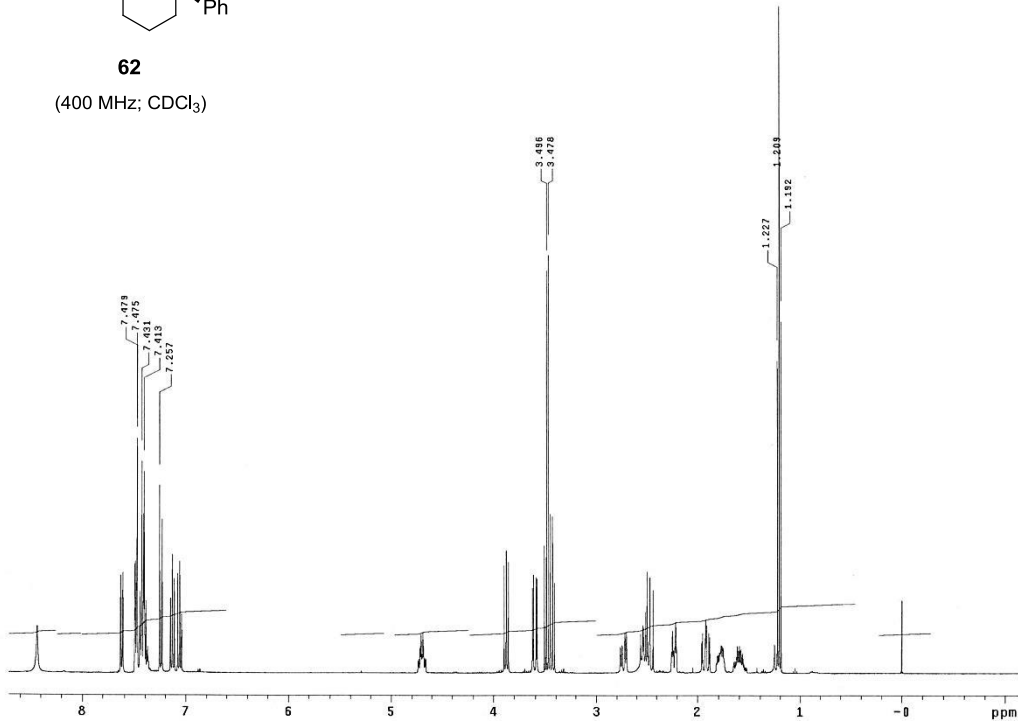
61
(100.6 MHz; CDCl₃)





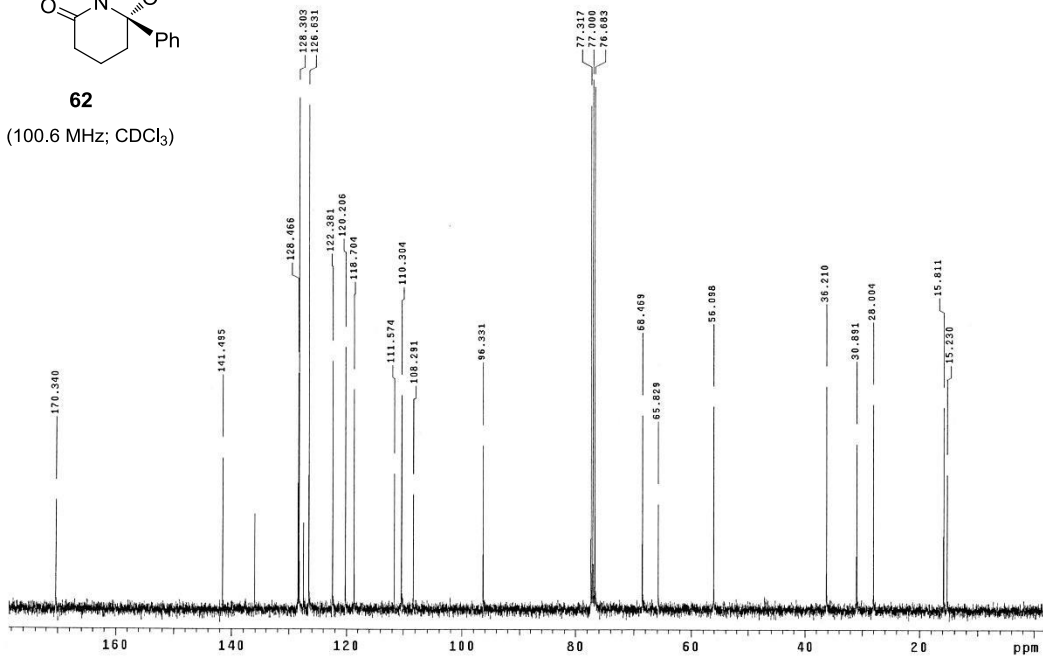
62

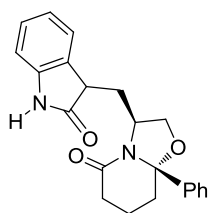
(400 MHz; CDCl₃)



62

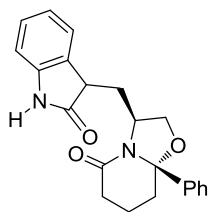
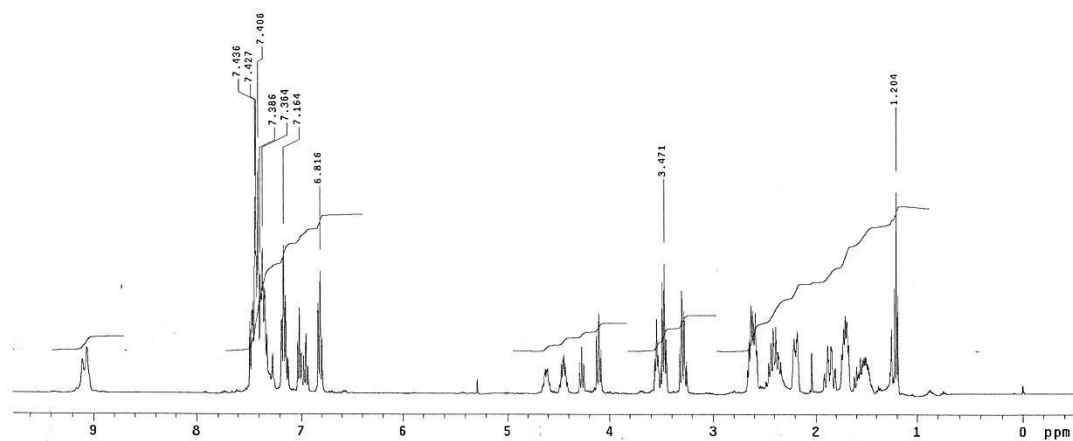
(100.6 MHz; CDCl₃)





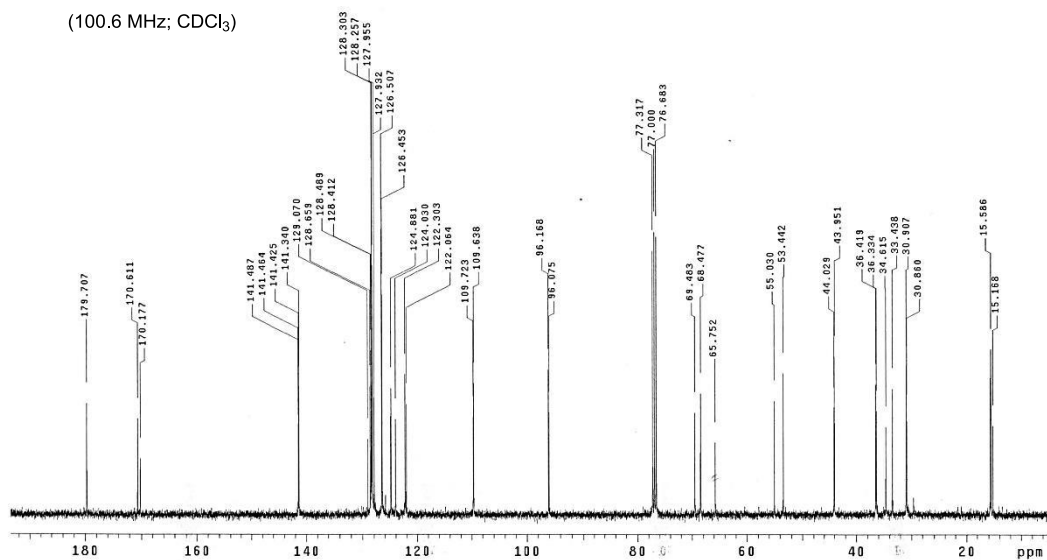
63

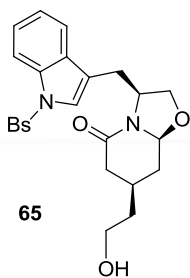
(400 MHz; CDCl₃)



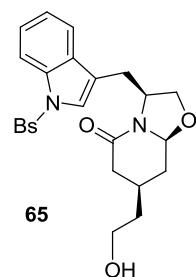
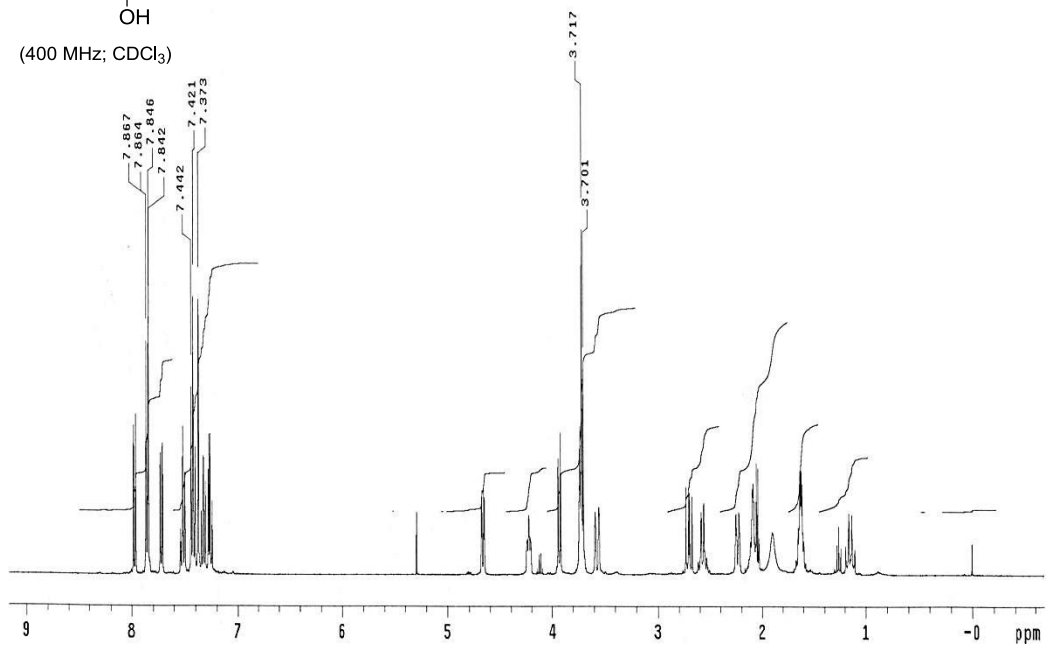
63

(100.6 MHz; CDCl₃)

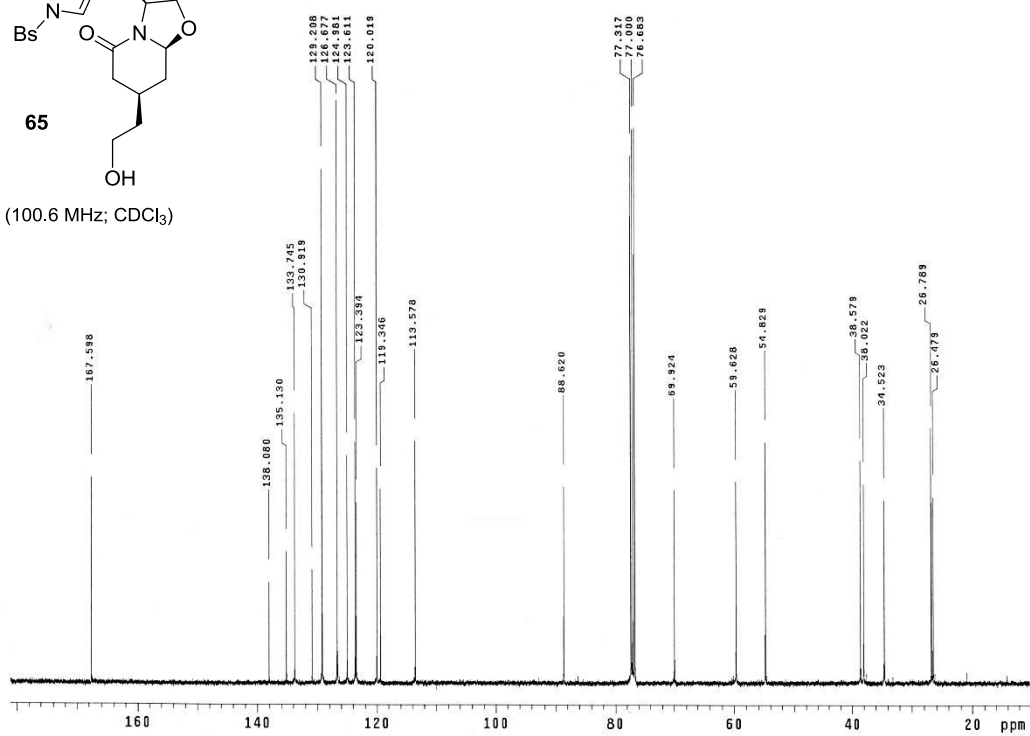


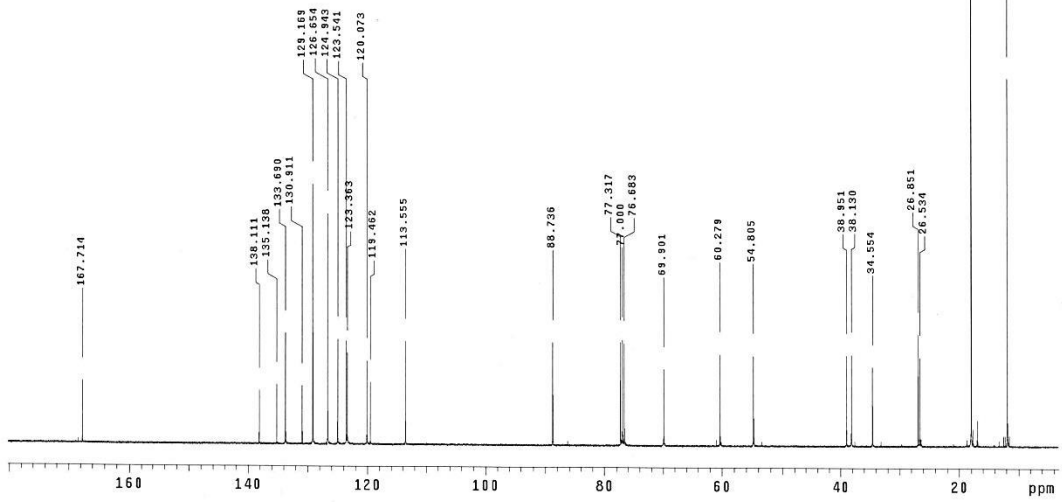
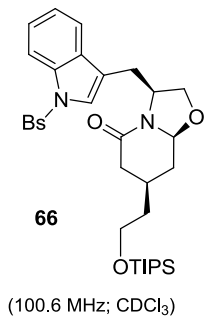
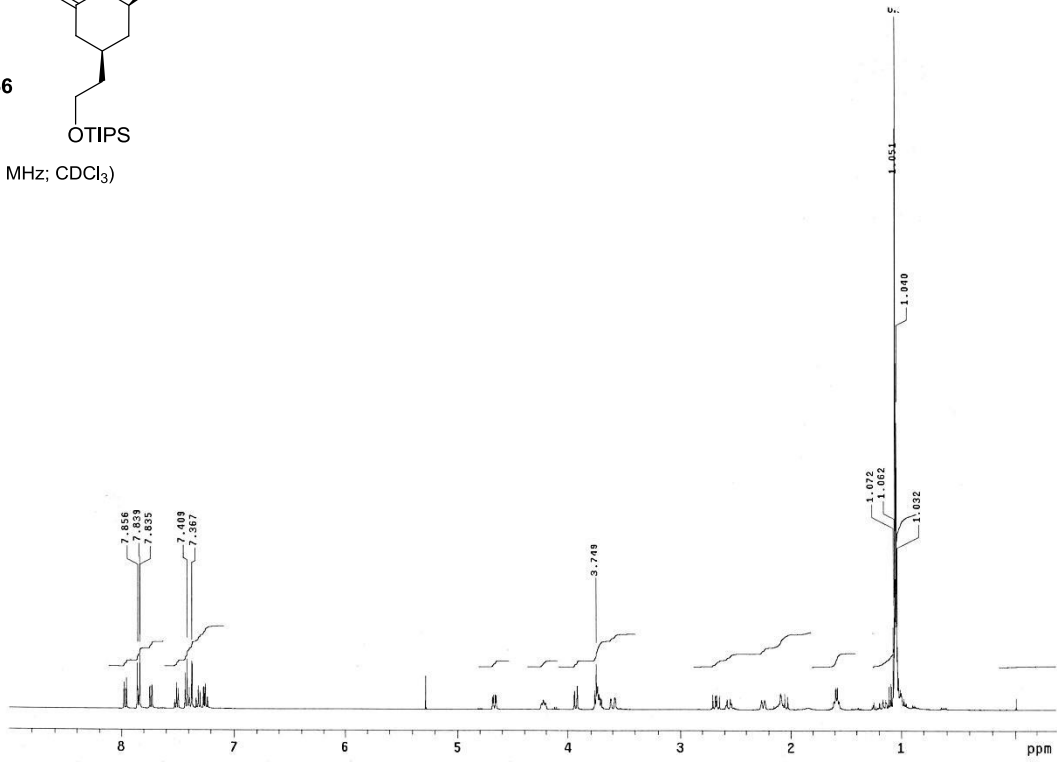
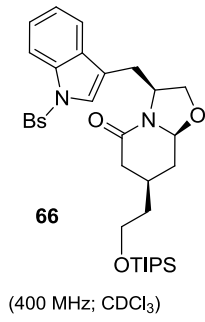


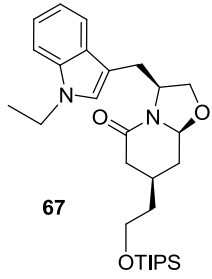
(400 MHz; CDCl₃)



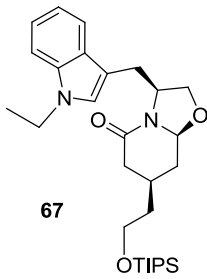
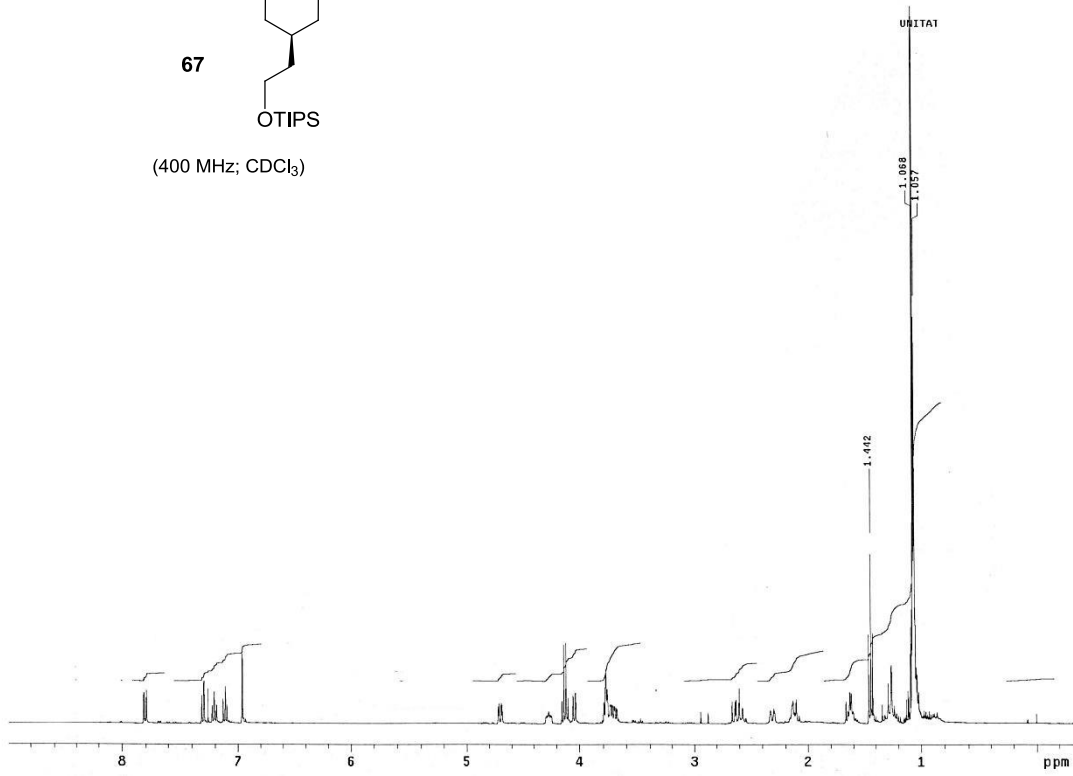
(100.6 MHz; CDCl₃)



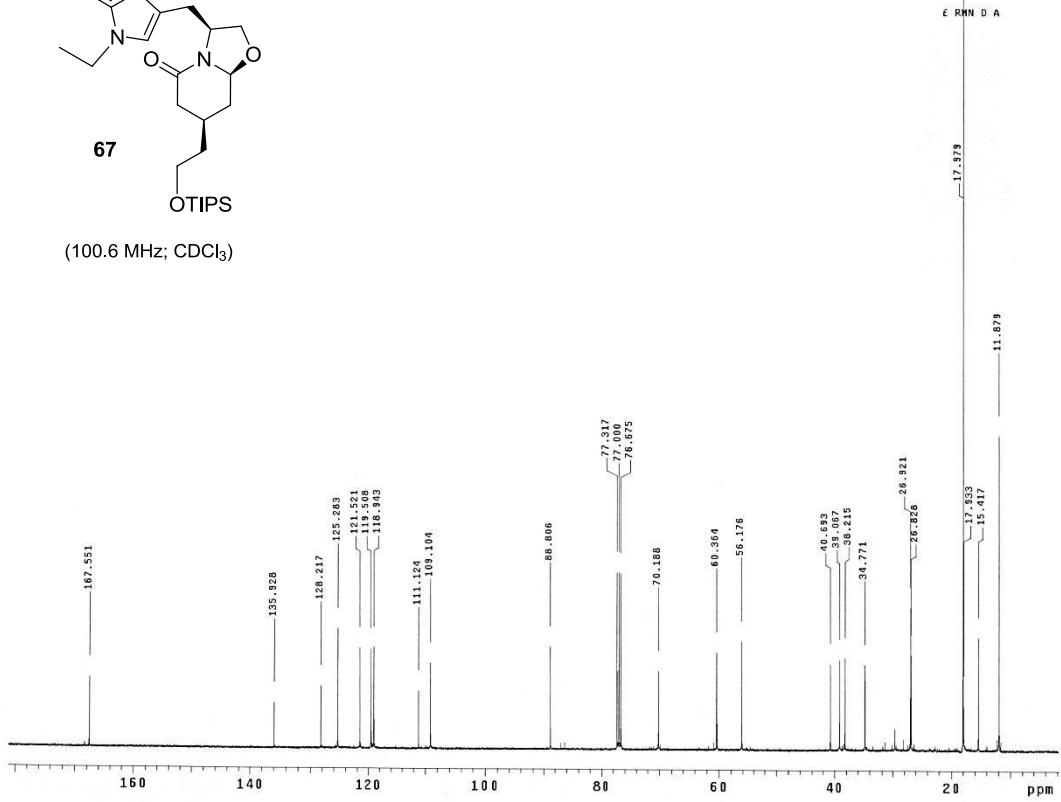


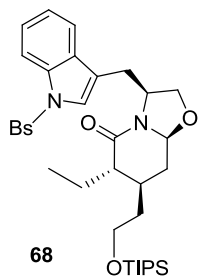


(400 MHz; CDCl₃)

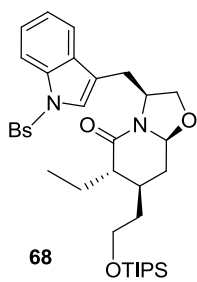
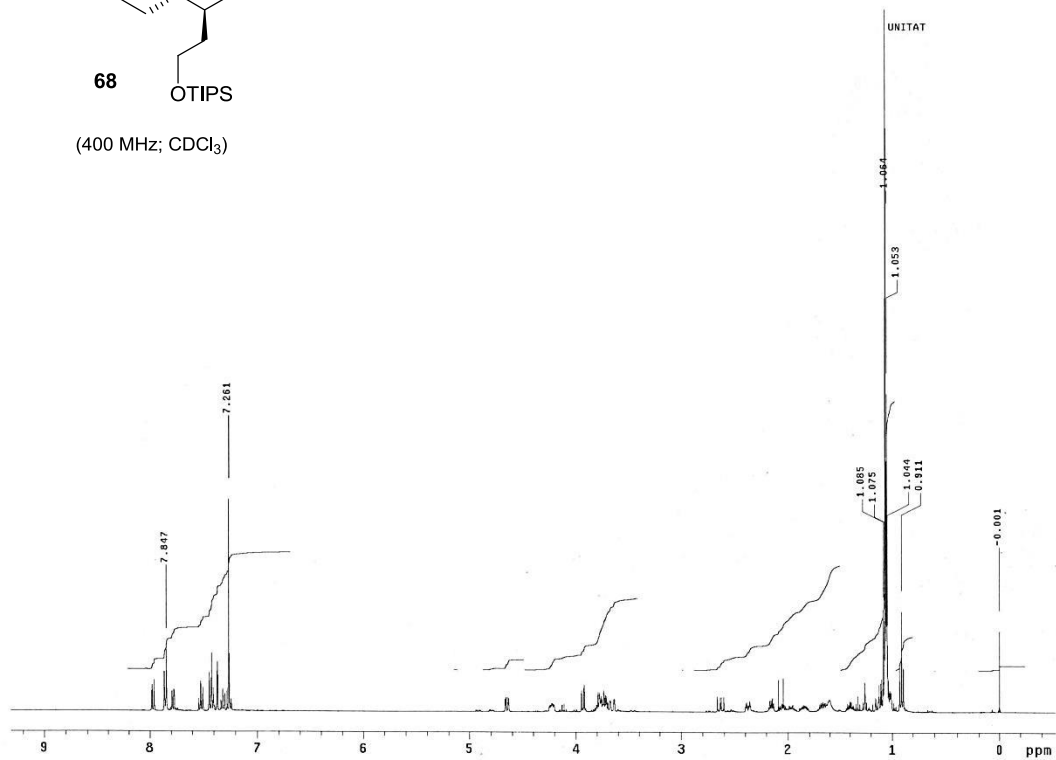


(100.6 MHz; CDCl₃)

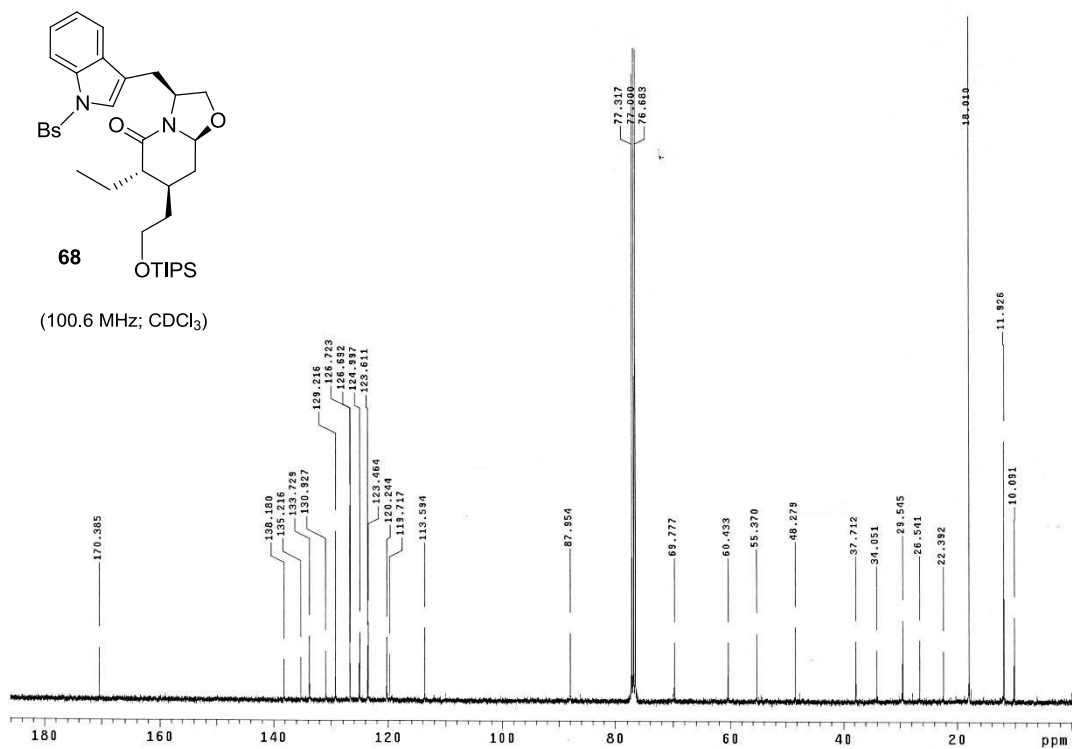


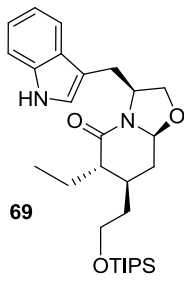


(400 MHz; CDCl₃)

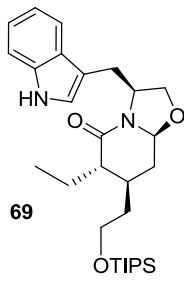
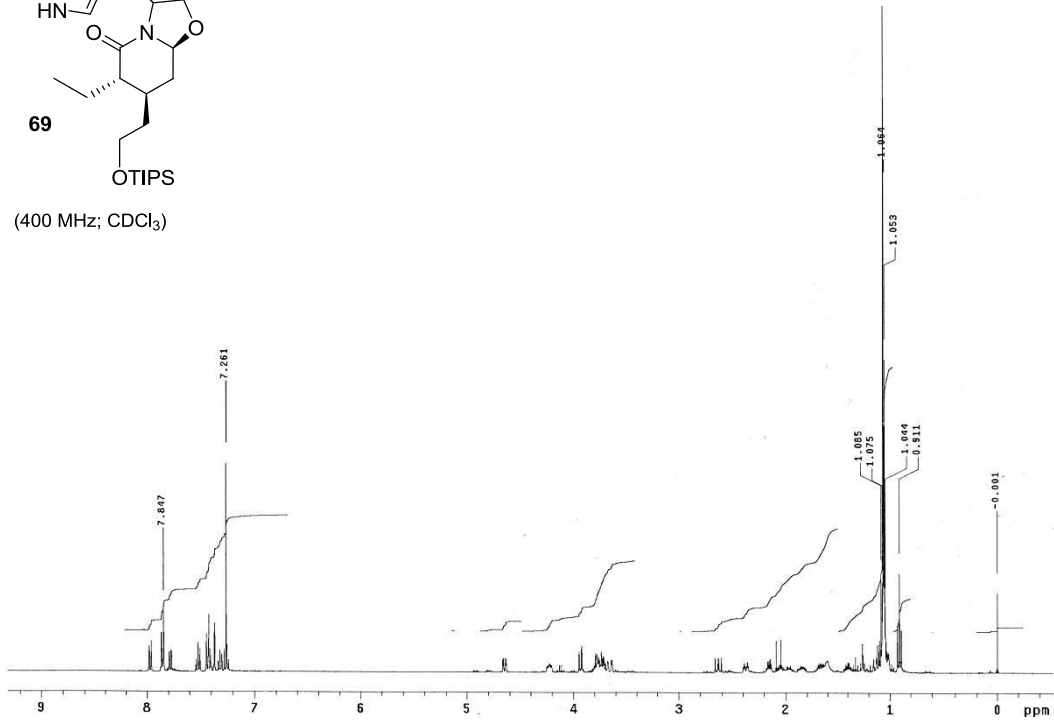


(100.6 MHz; CDCl₃)

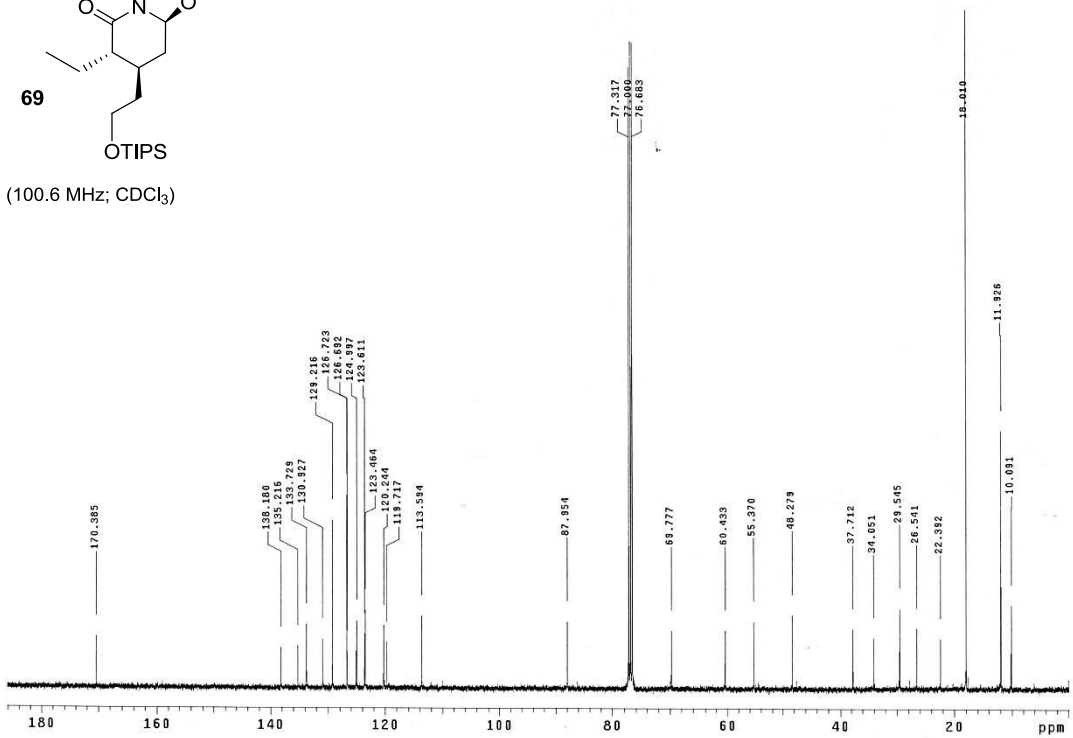


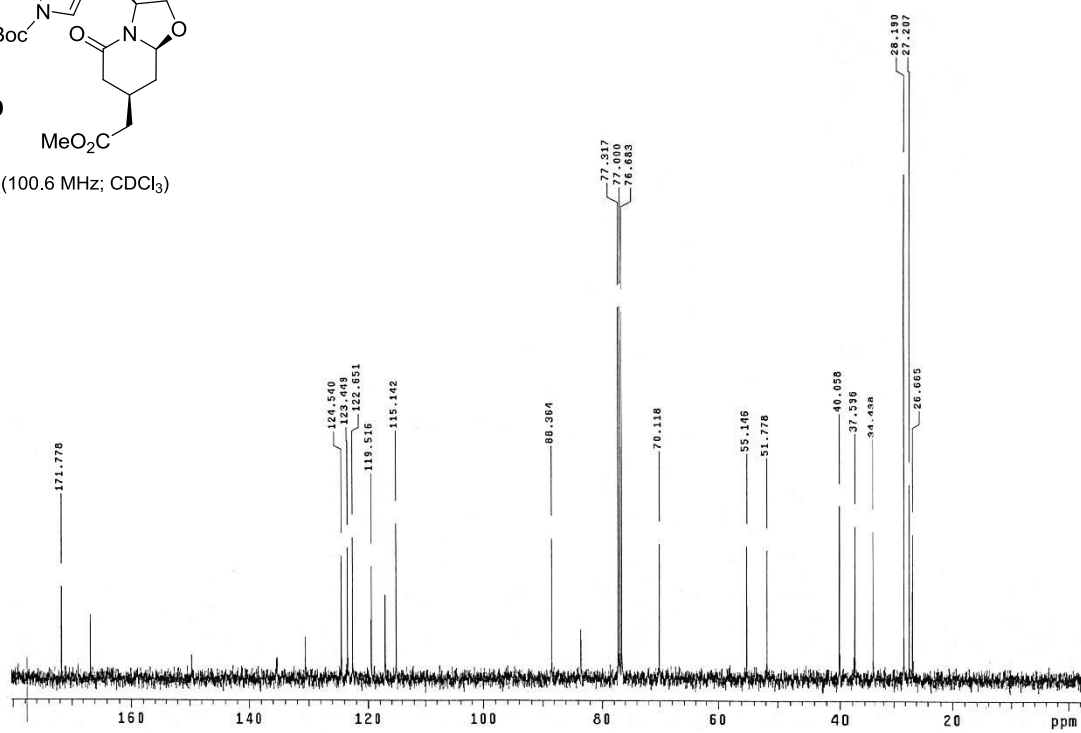
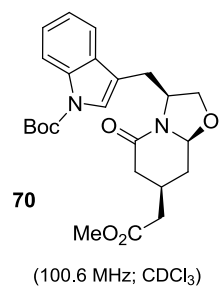
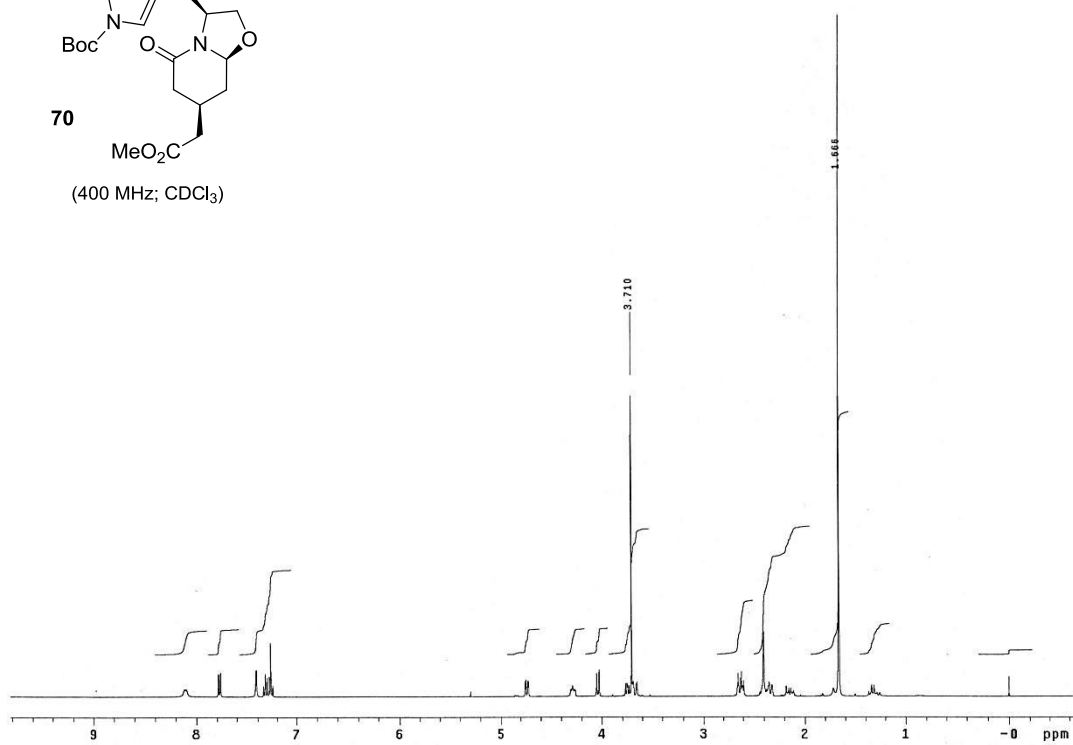
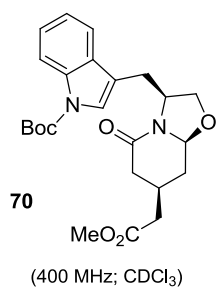


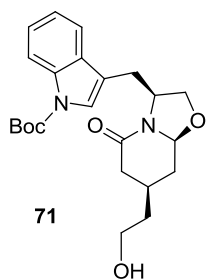
(400 MHz; CDCl₃)



(100.6 MHz; CDCl₃)

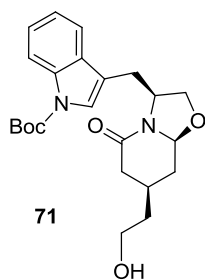
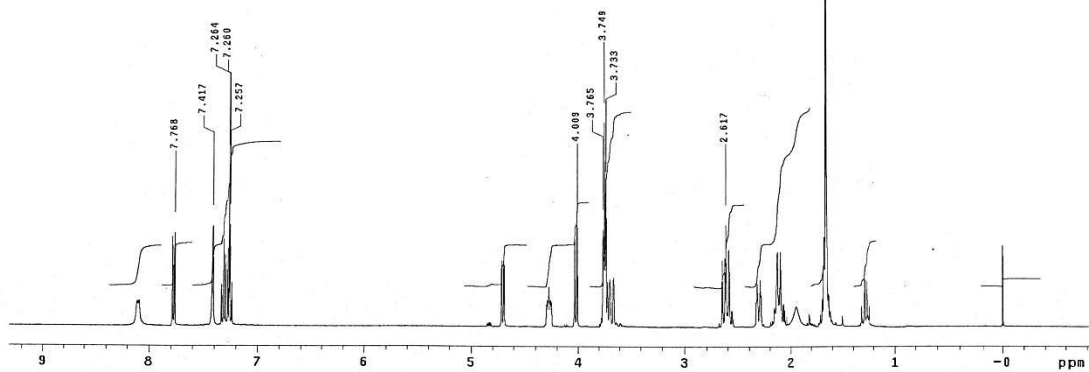






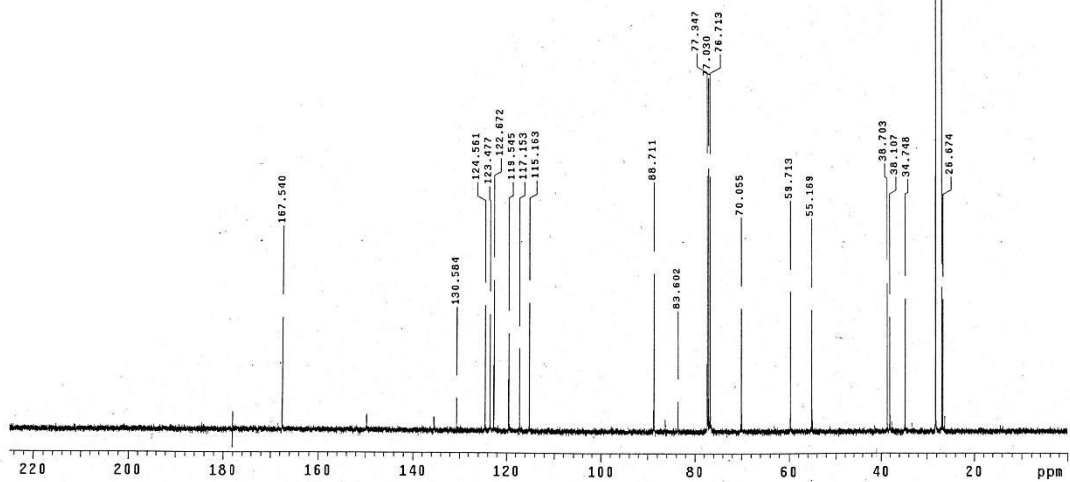
71

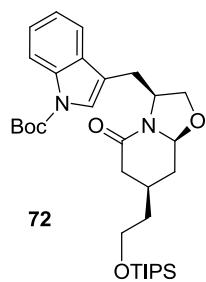
(400 MHz; CDCl₃)



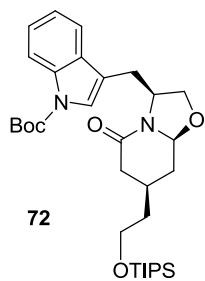
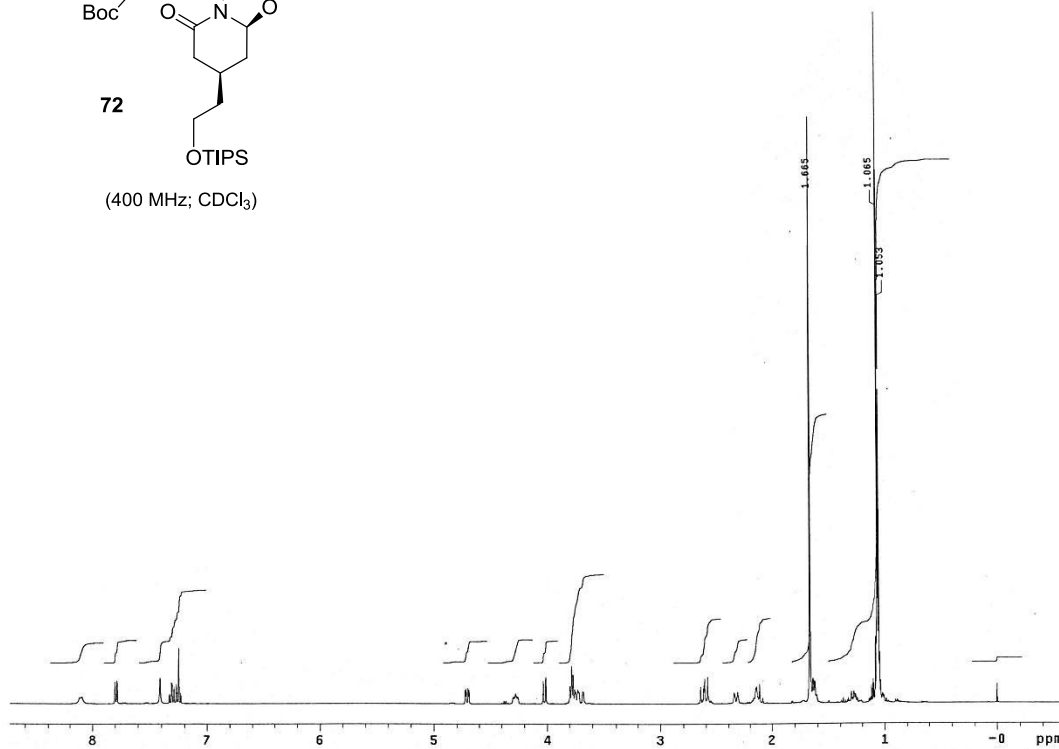
71

(100.6 MHz; CDCl₃)

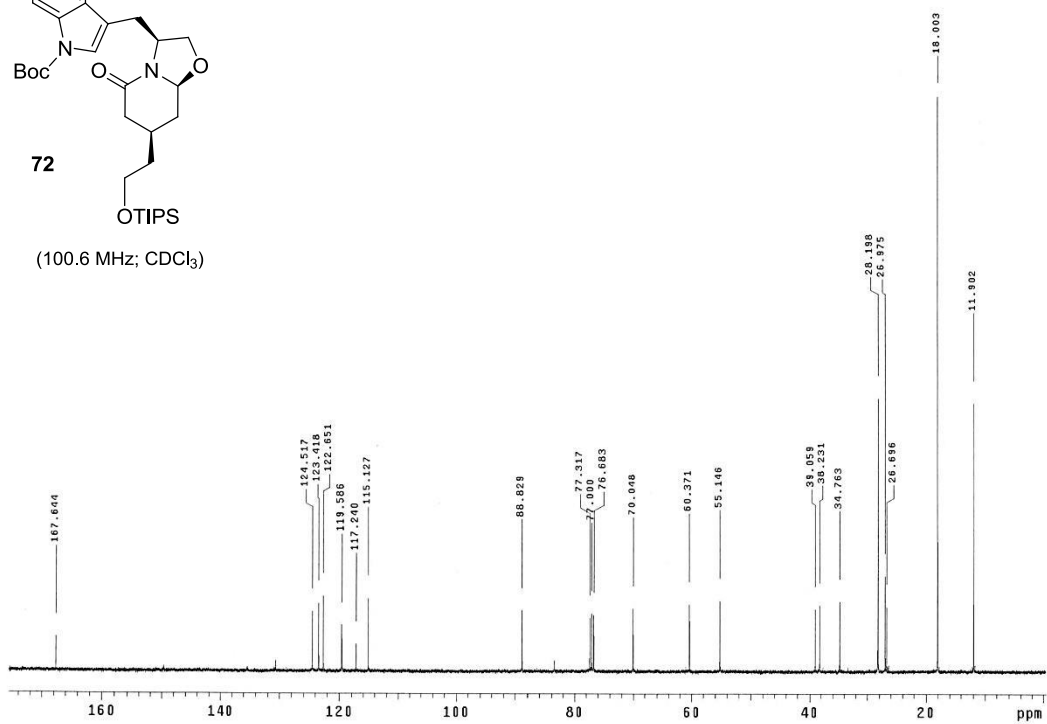


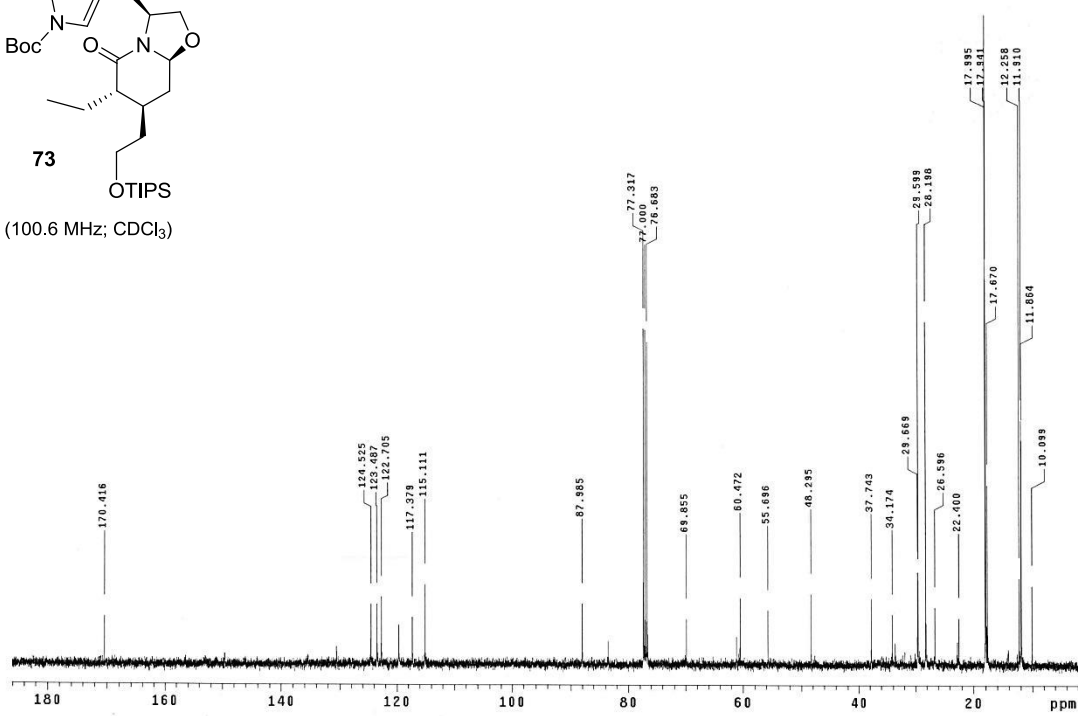
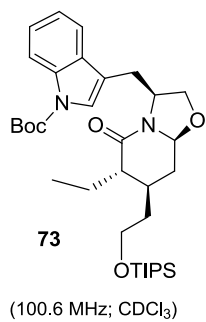
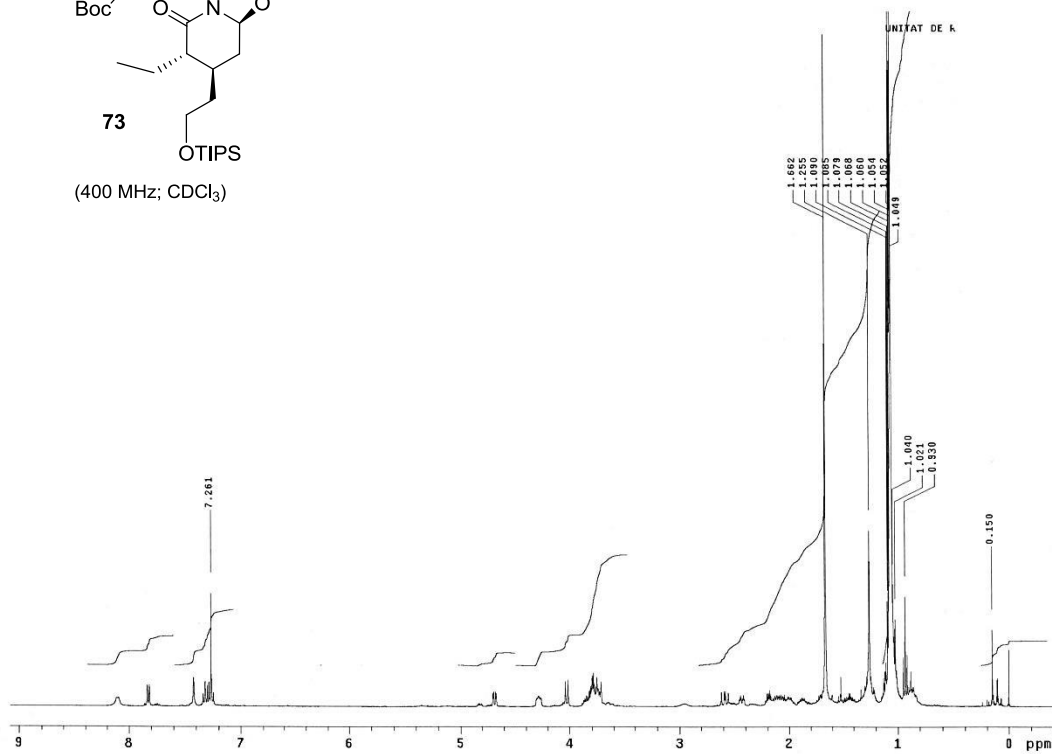
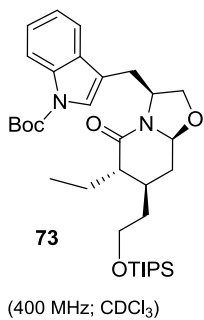


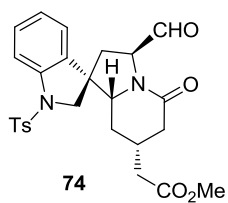
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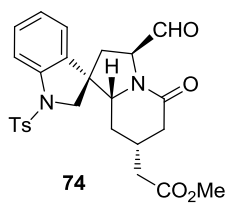
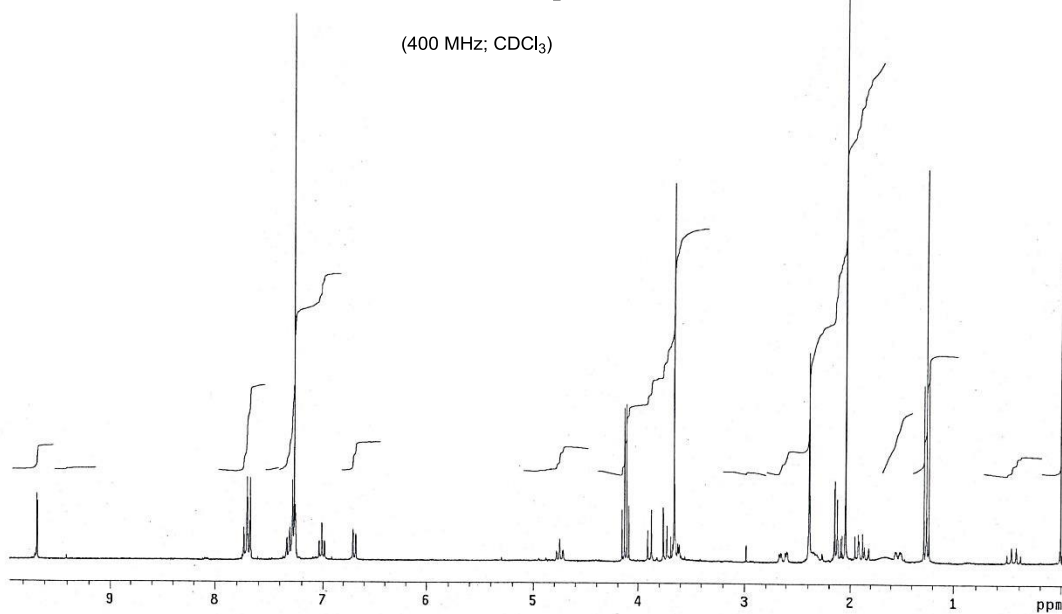
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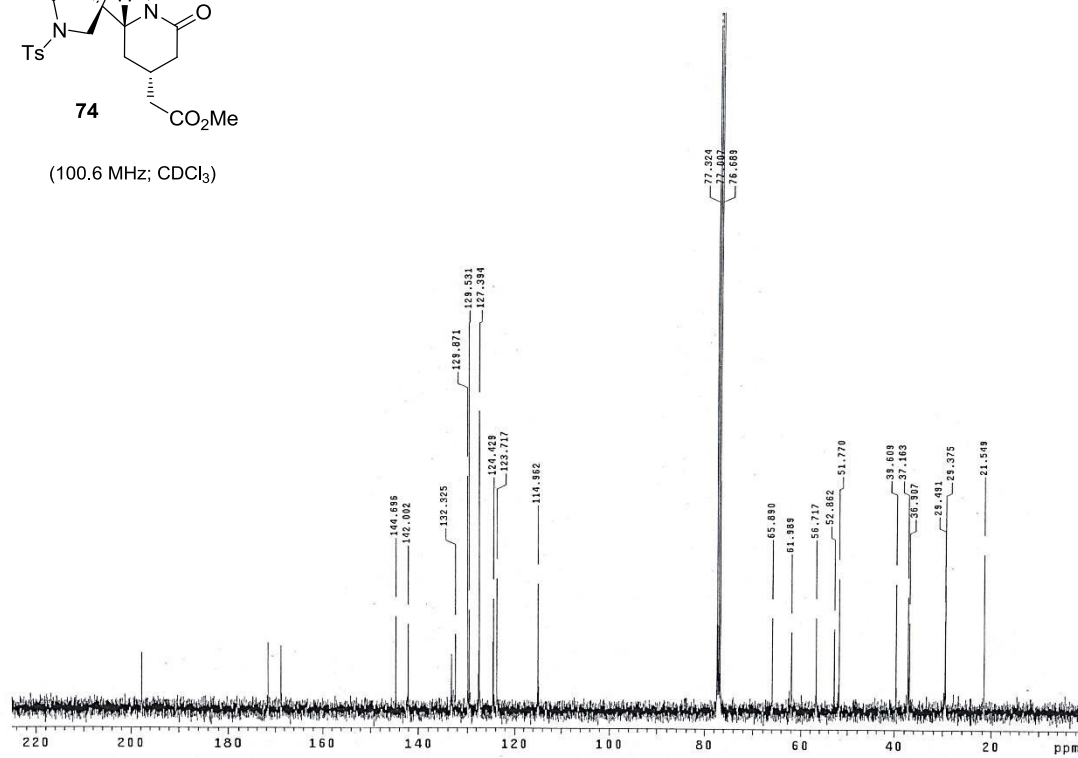


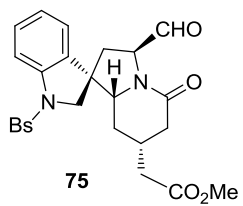


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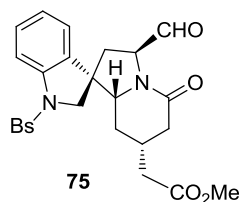
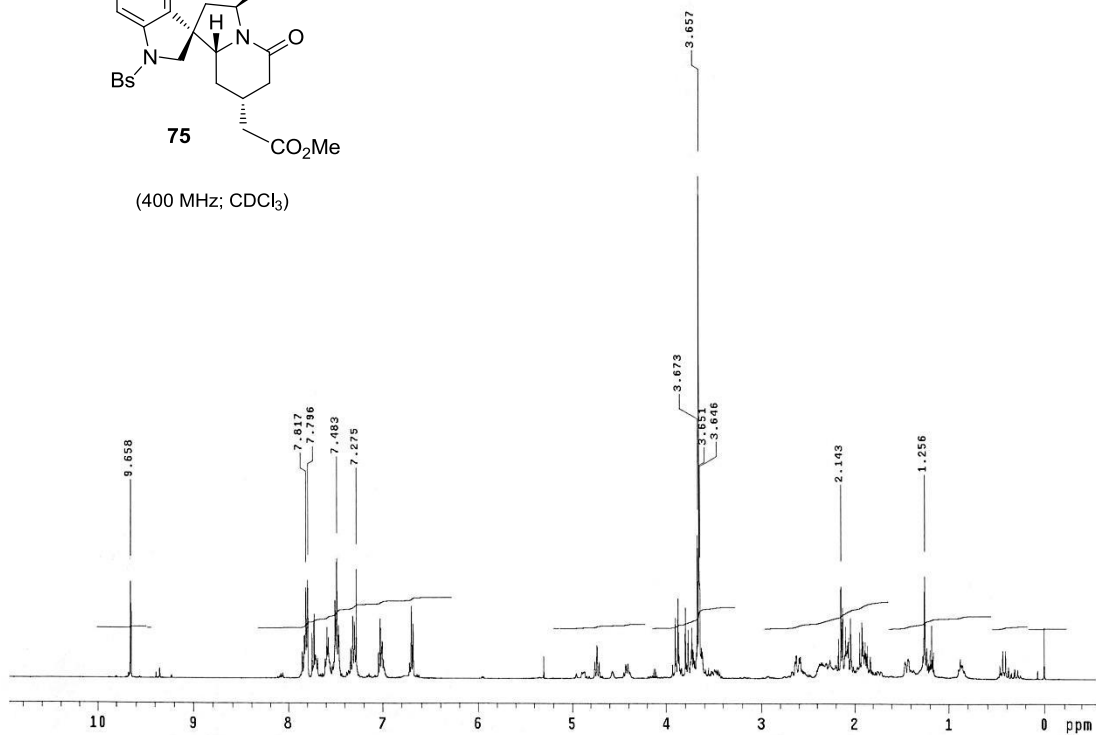


(100.6 MHz; CDCl₃)

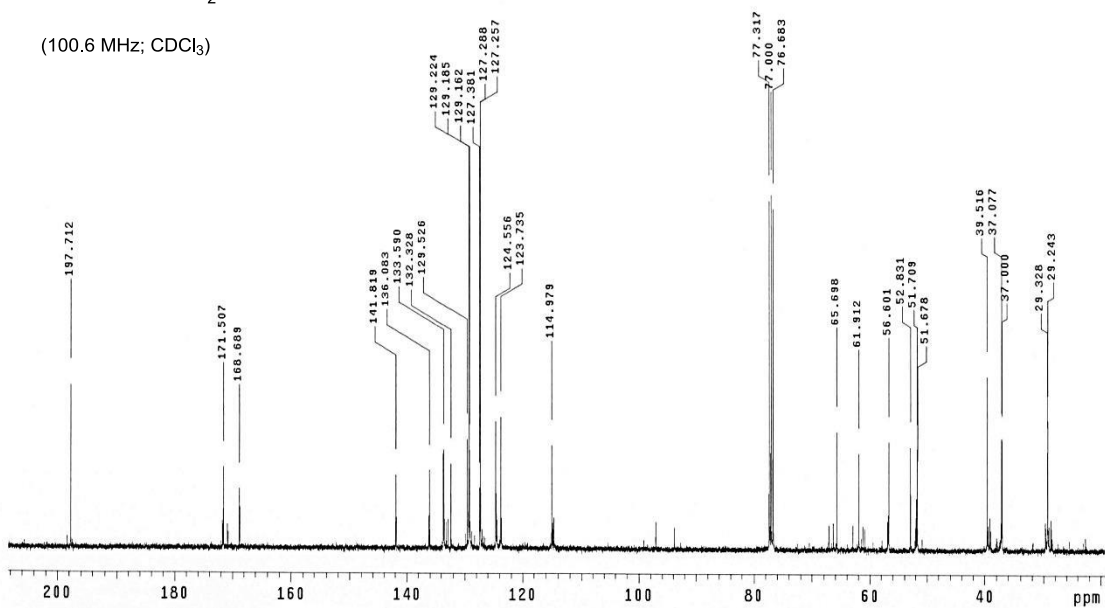


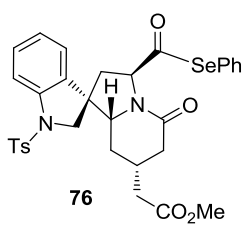


(400 MHz; CDCl₃)

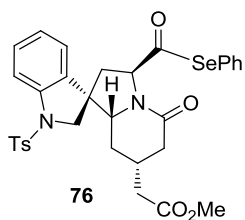
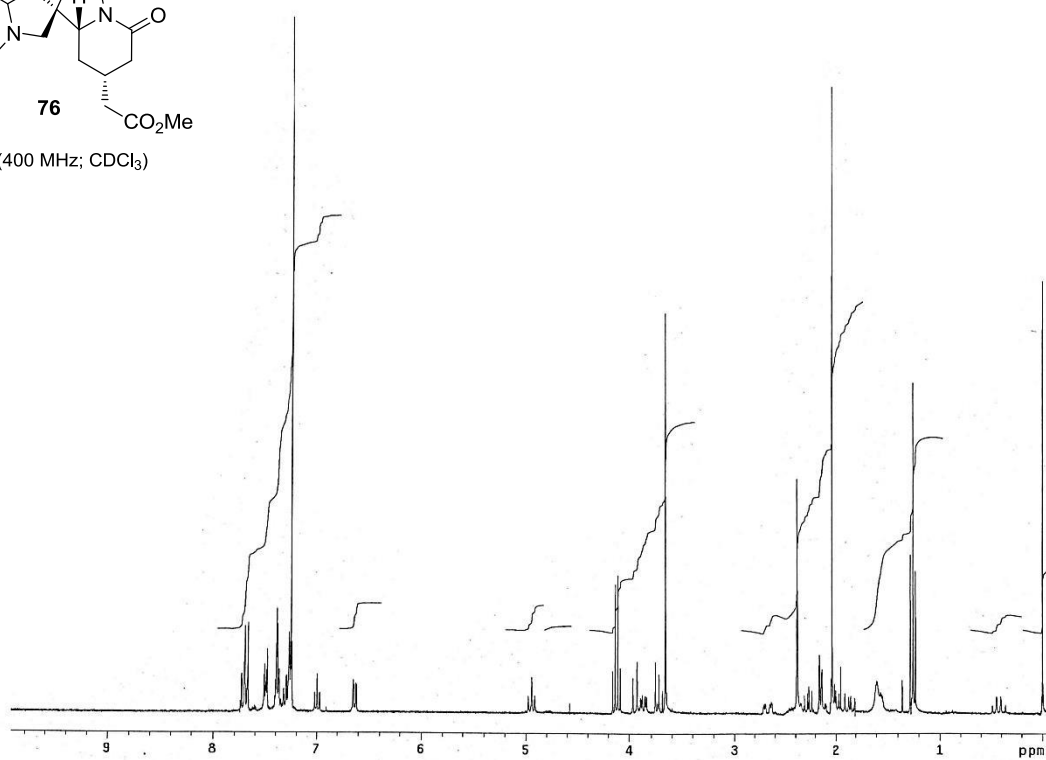


(100.6 MHz; CDCl₃)

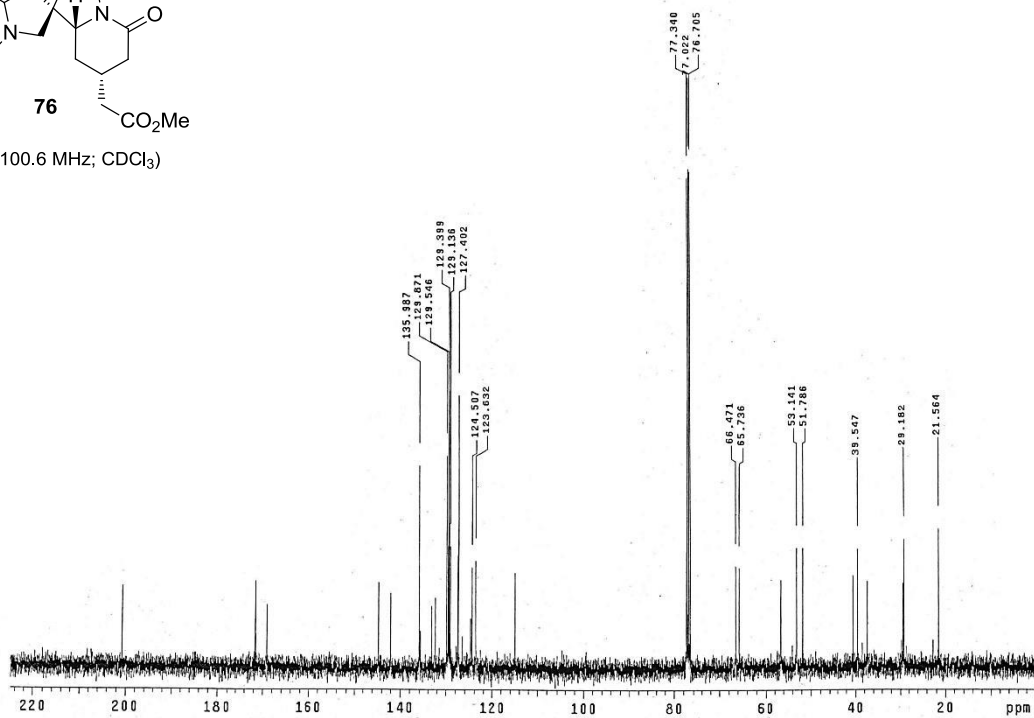


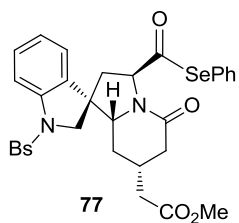


(400 MHz; CDCl₃)

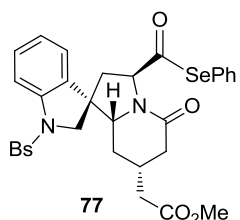
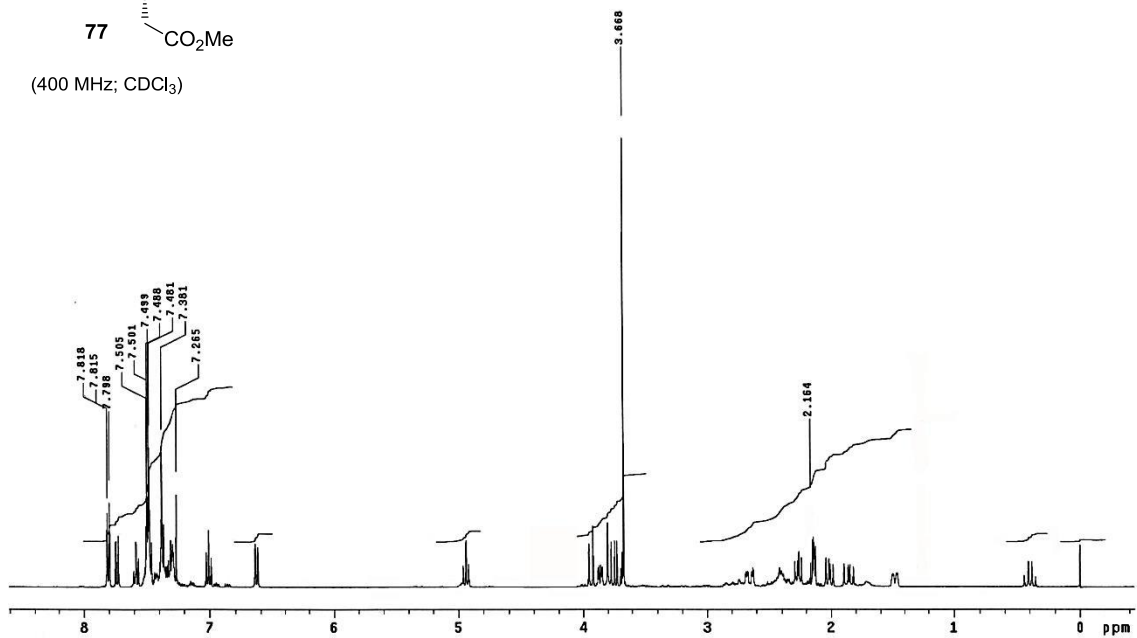


(100.6 MHz; CDCl₃)

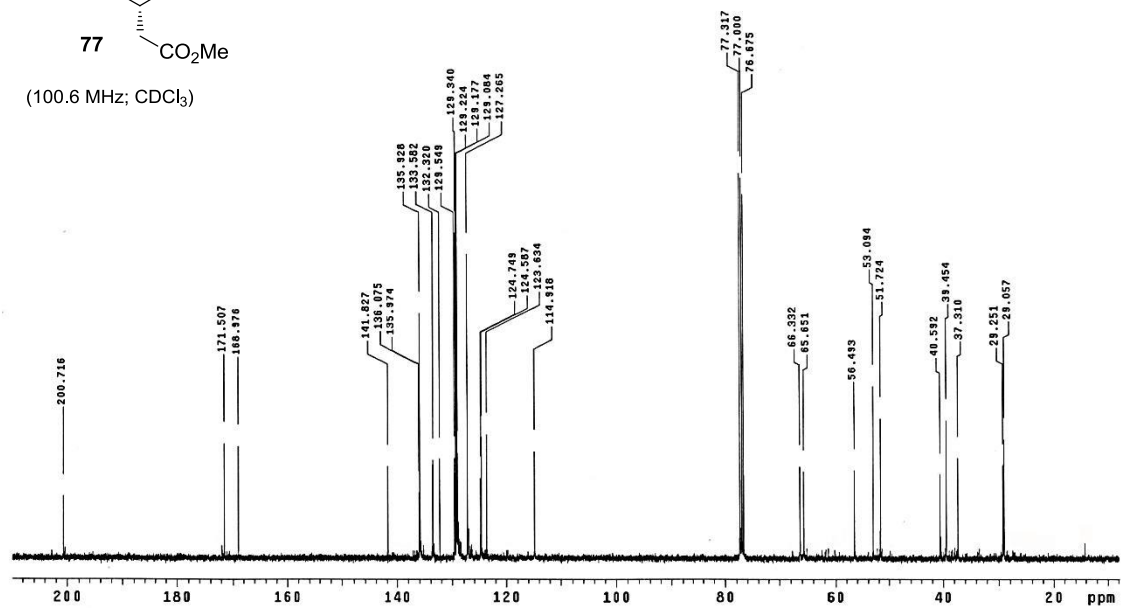


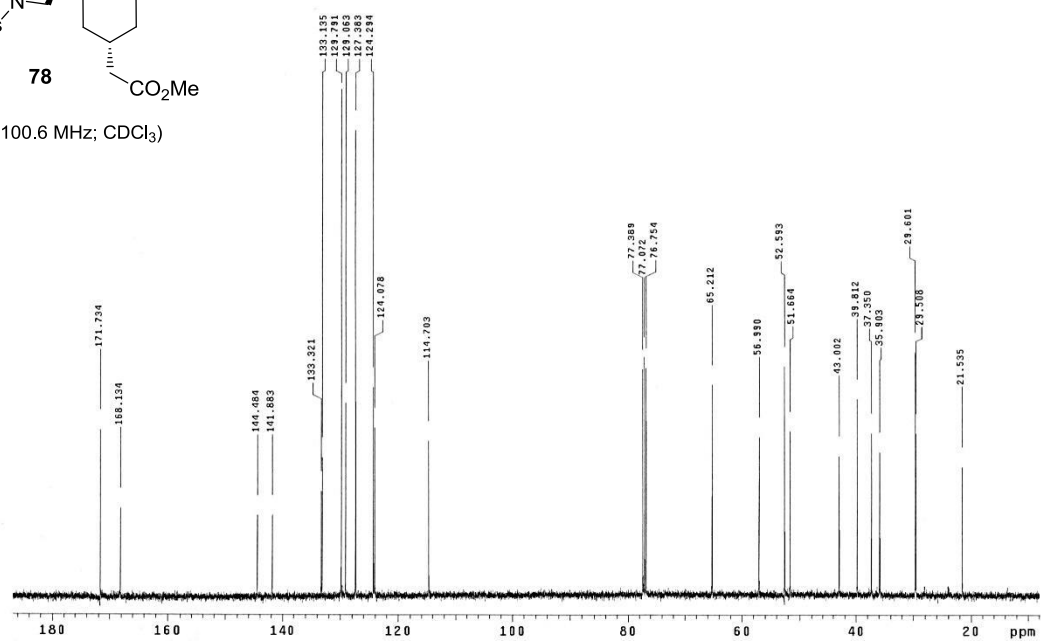
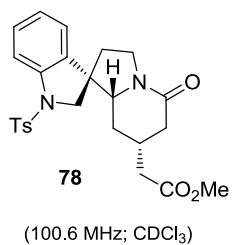
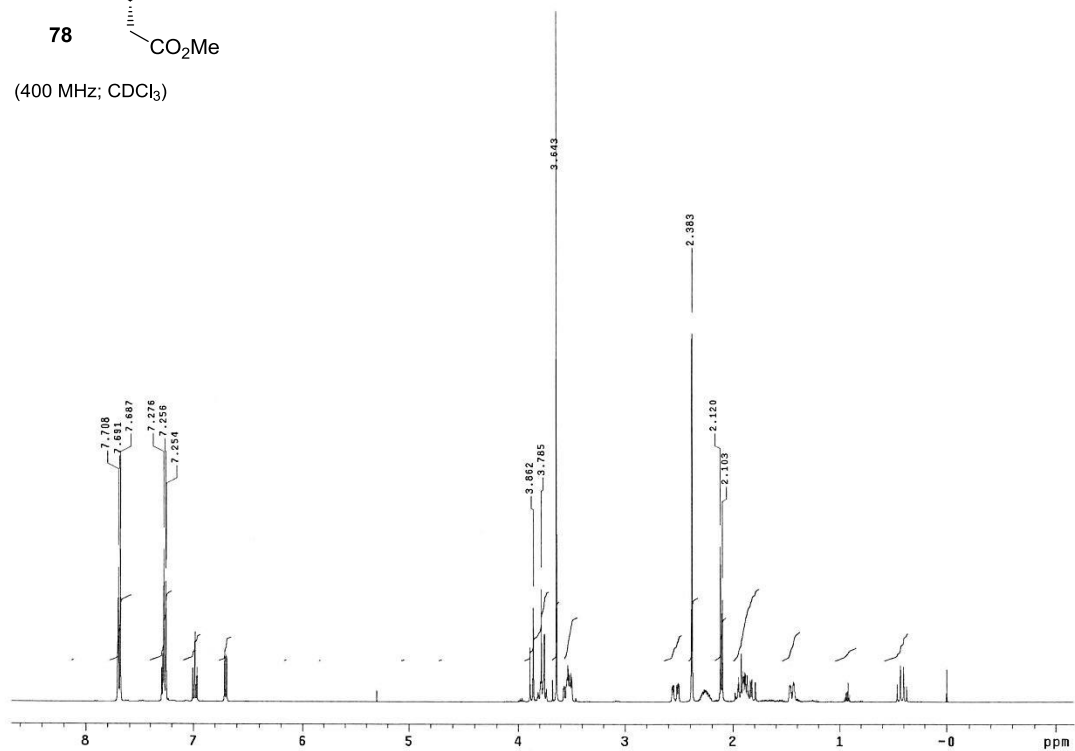
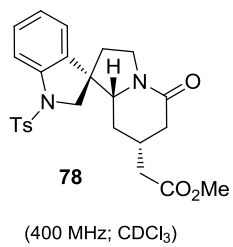


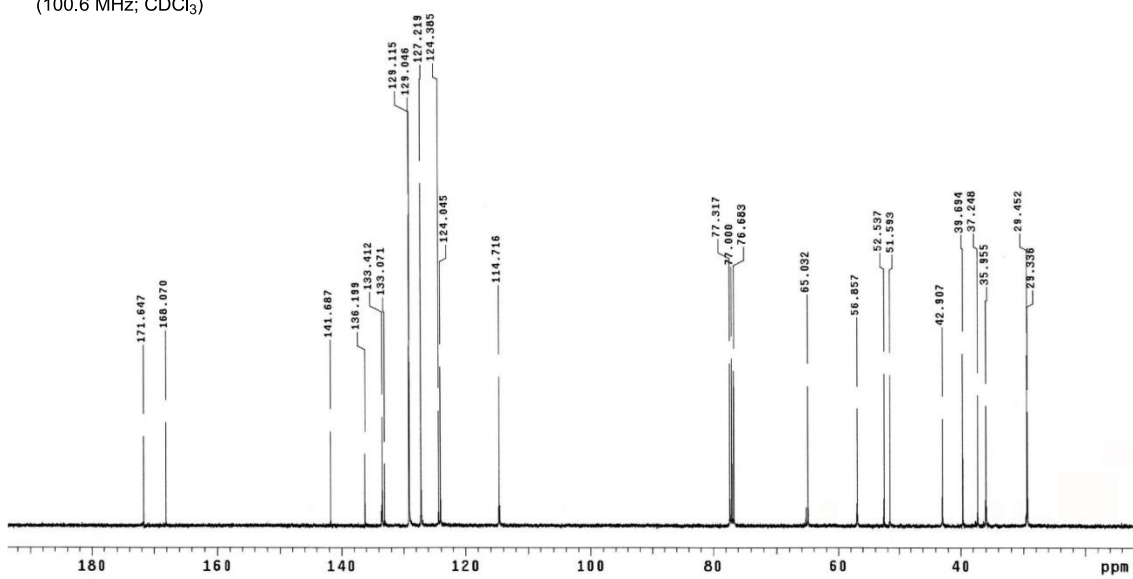
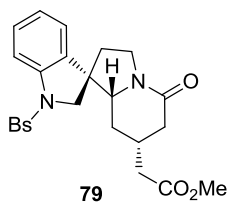
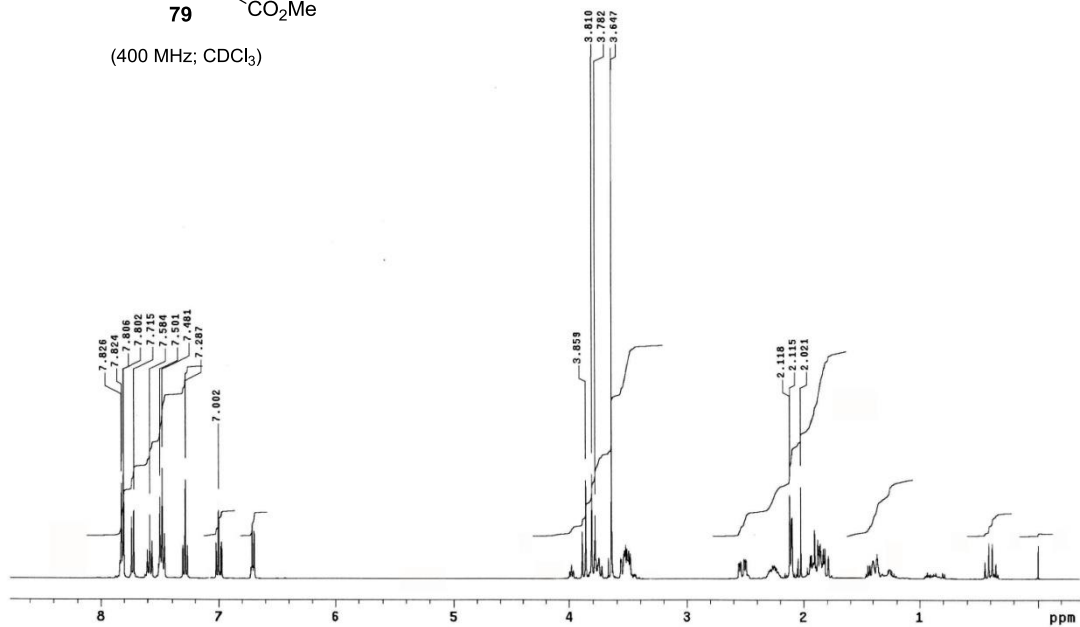
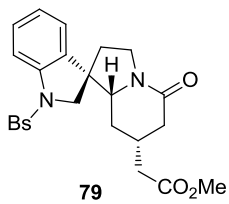
(400 MHz; CDCl₃)

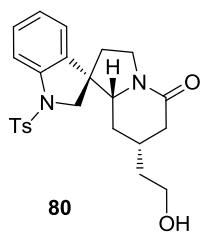


(100.6 MHz; CDCl₃)

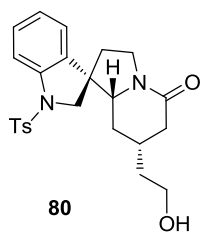
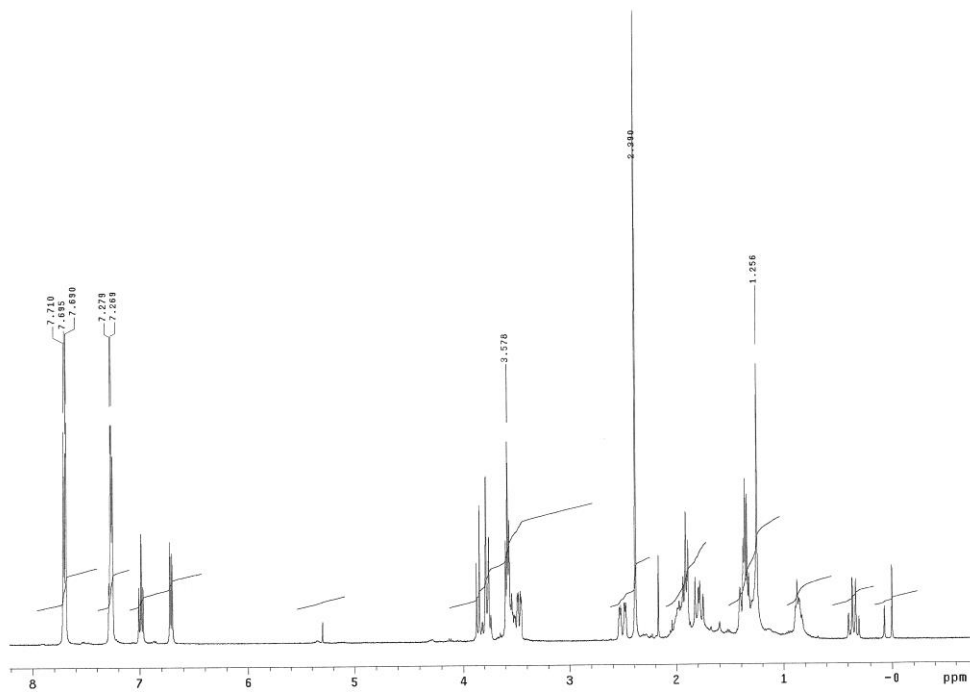




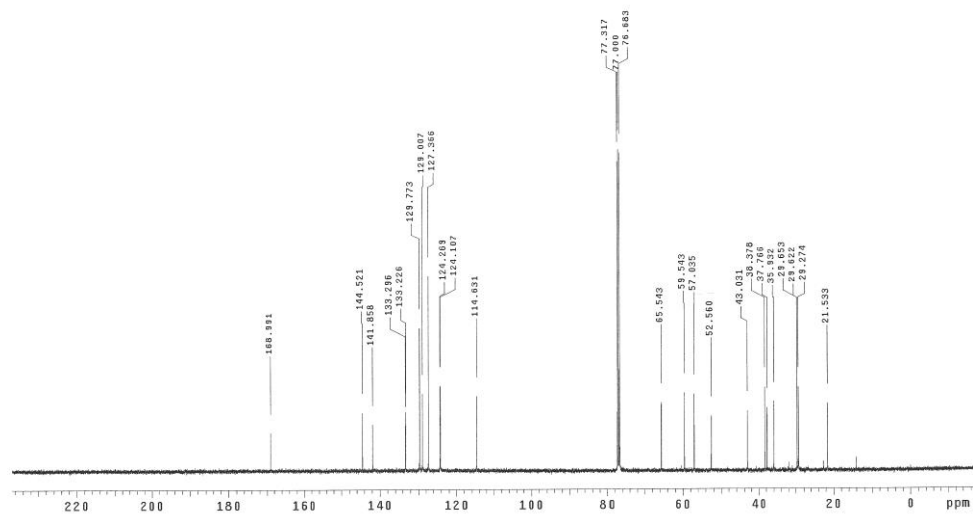


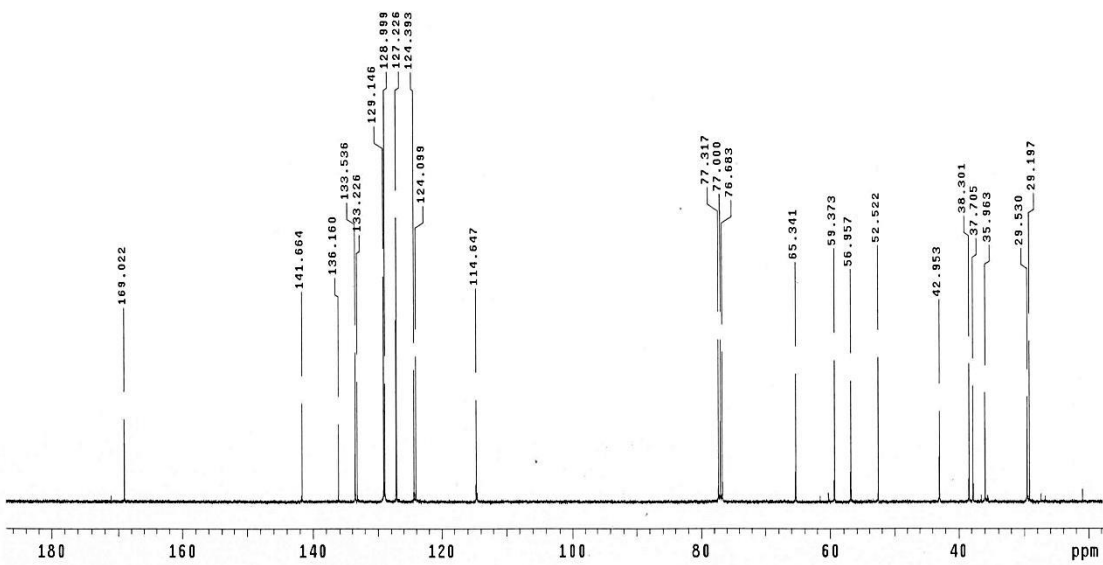
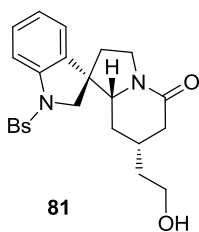
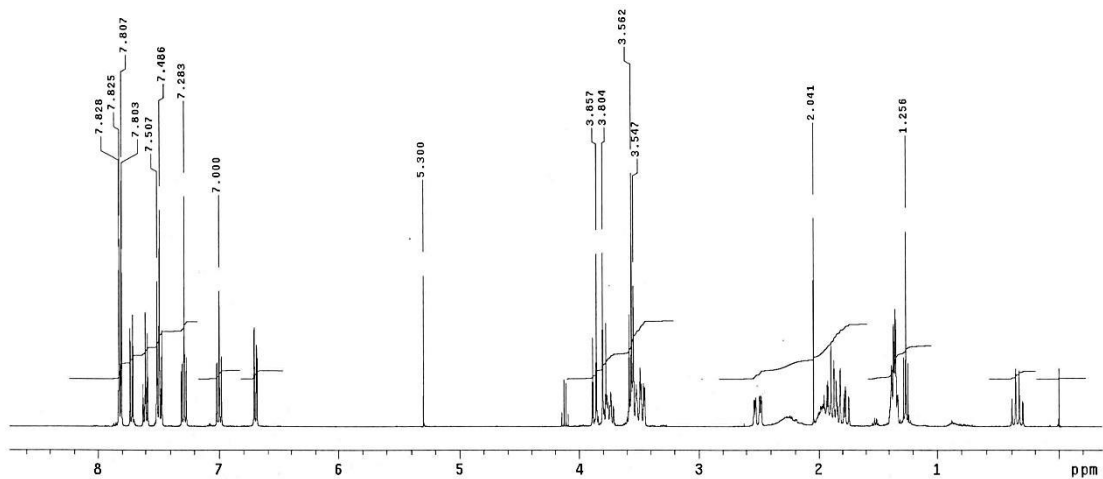
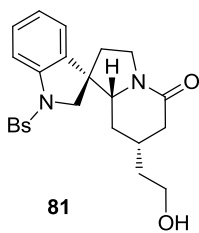


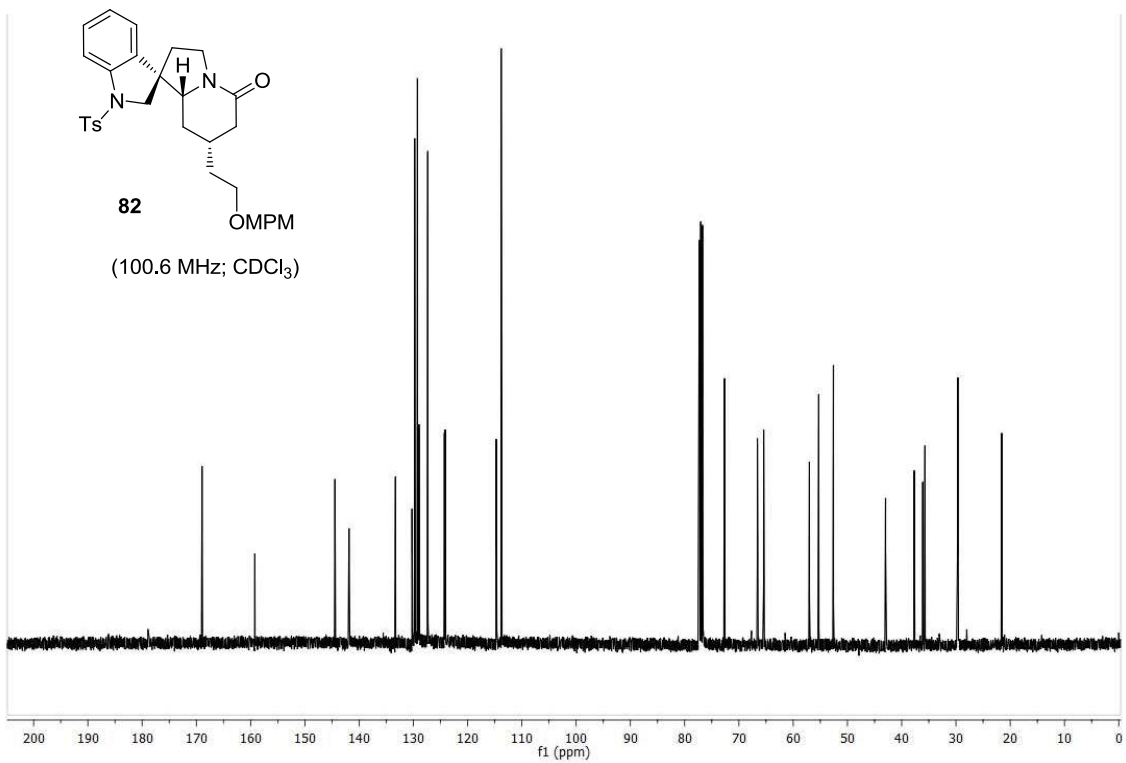
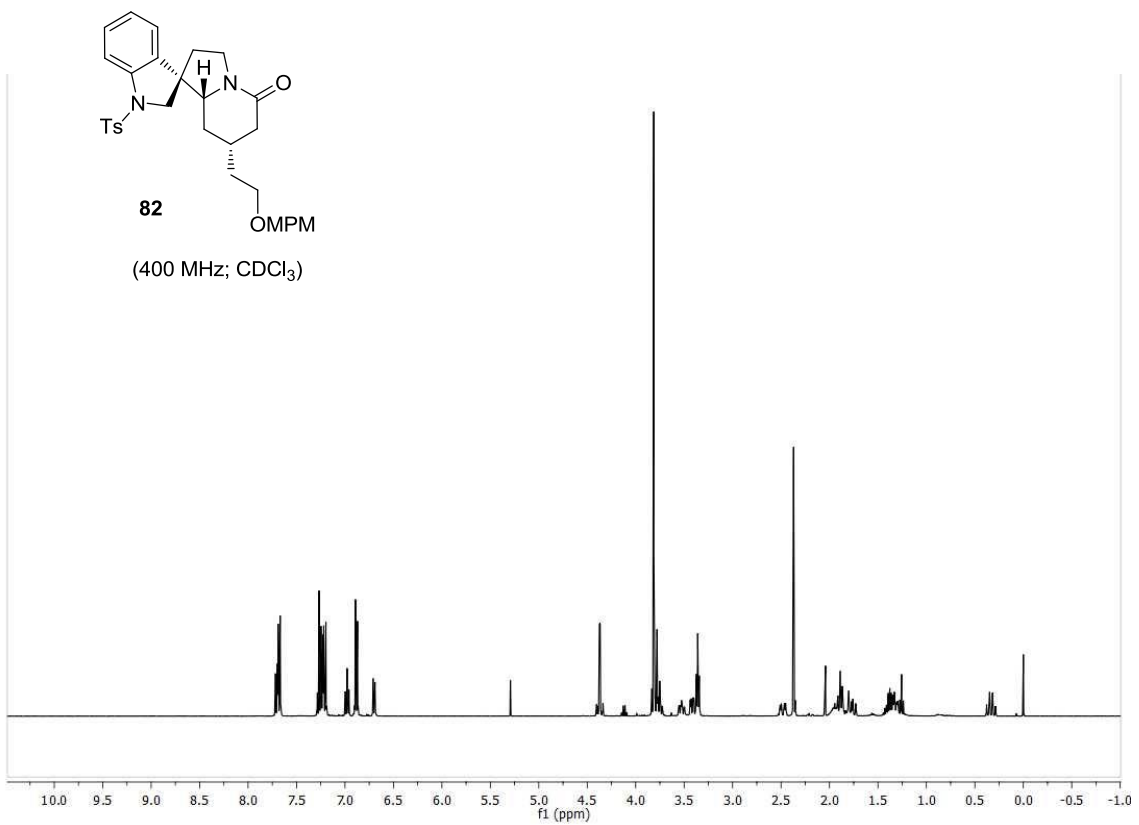
(400MHz; CDCl₃)

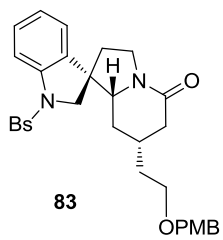


(100.5 MHz; CDCl₃)

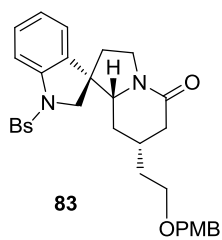
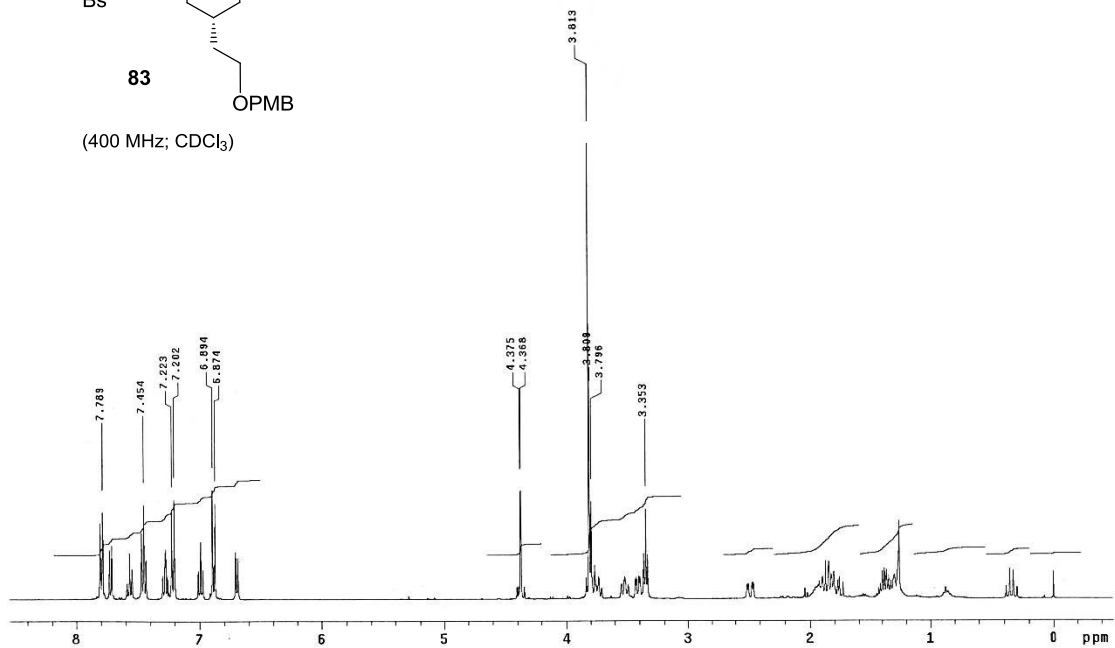




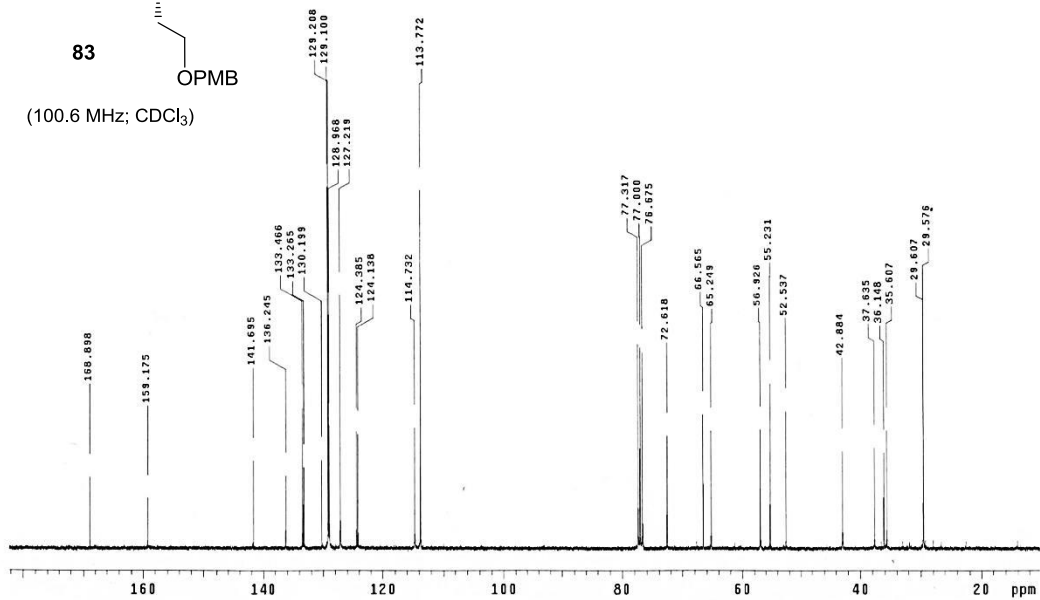


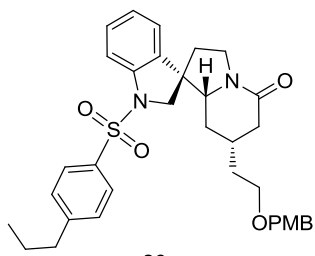


(400 MHz; CDCl₃)



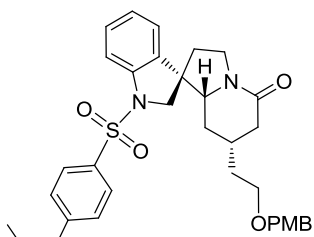
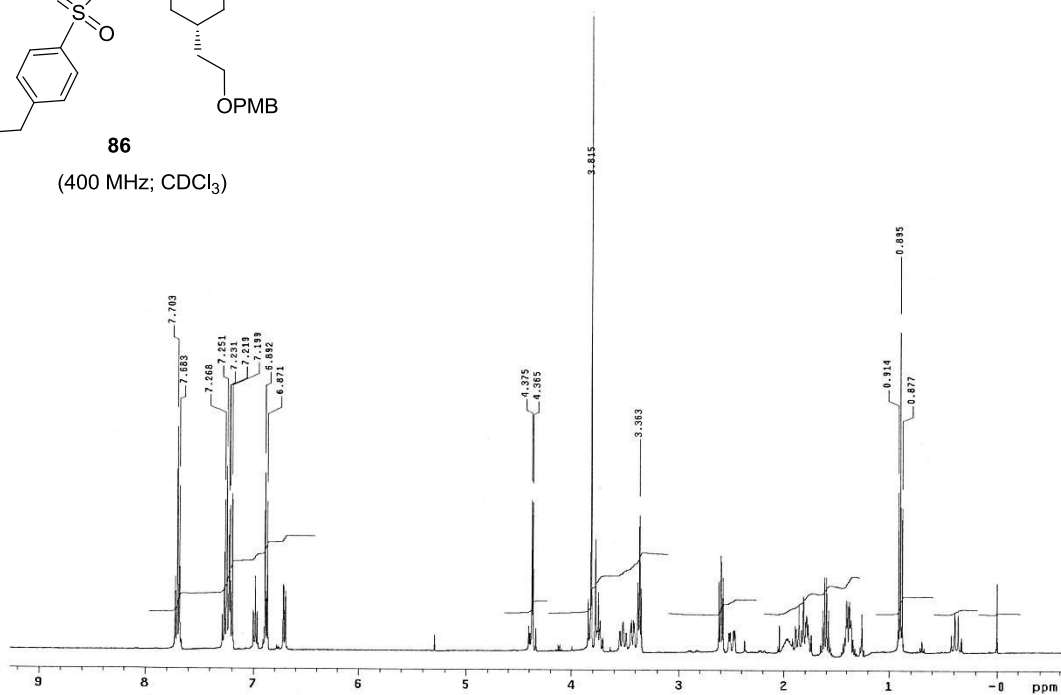
(100.6 MHz; CDCl₃)





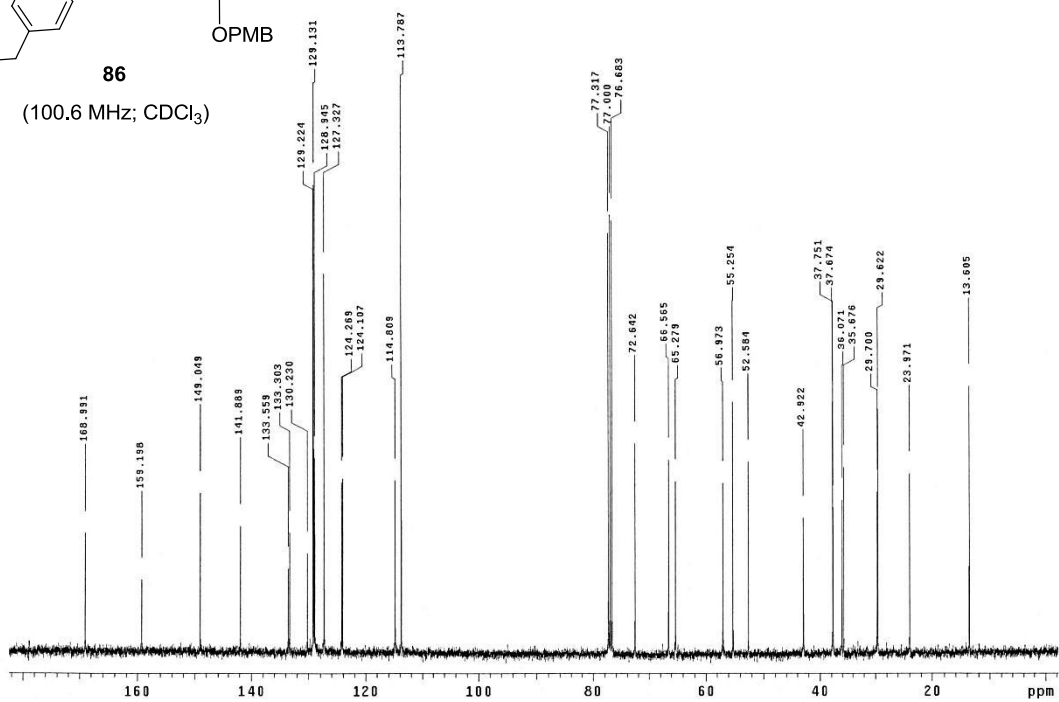
86

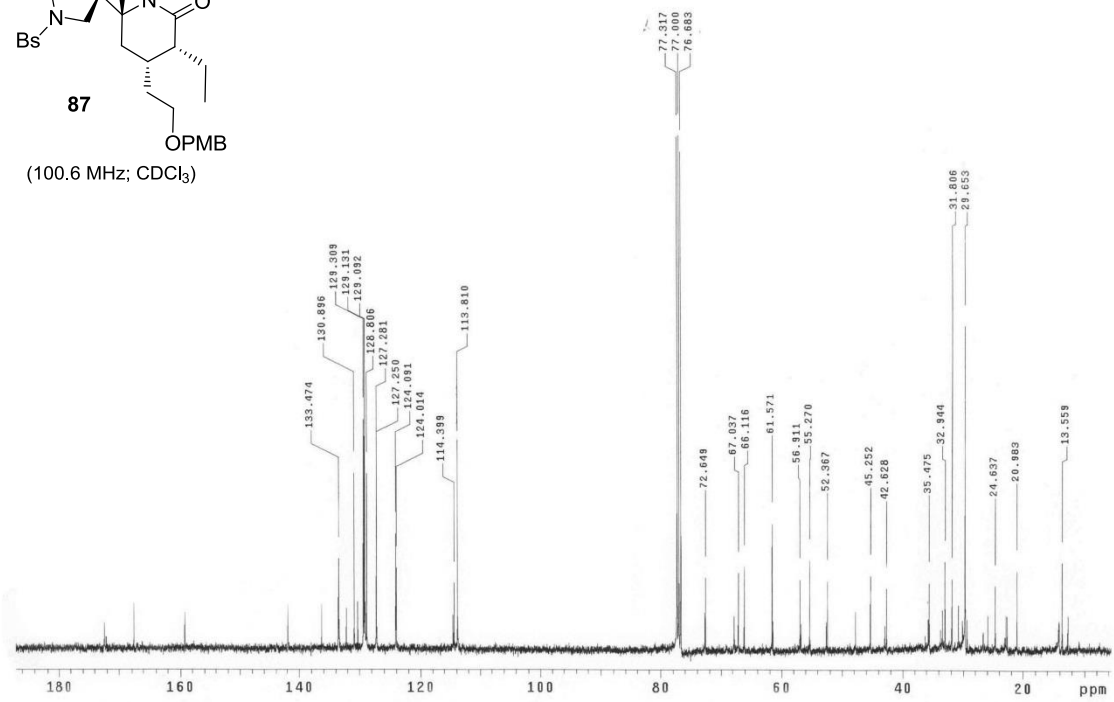
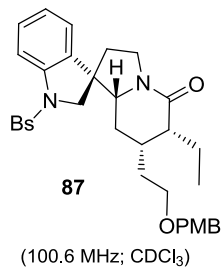
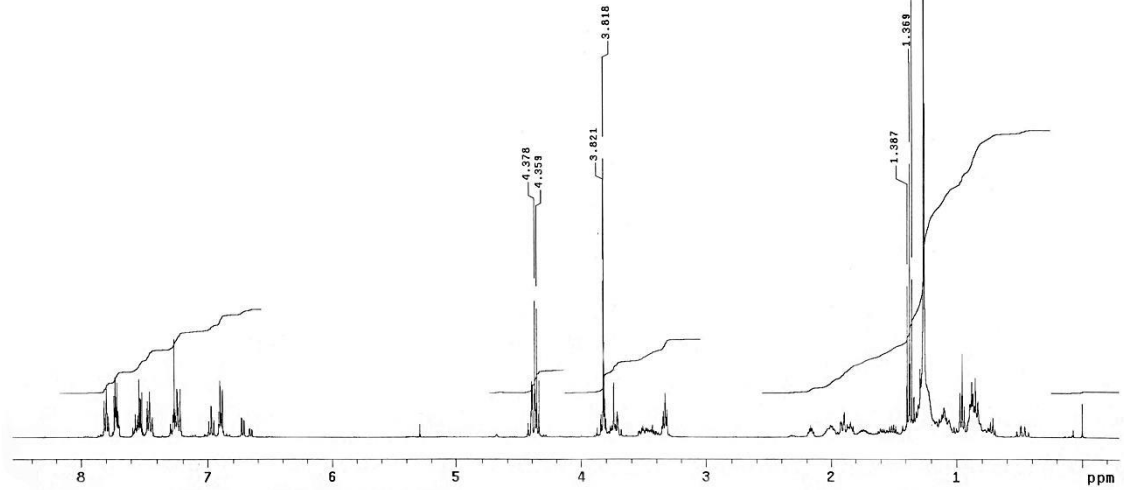
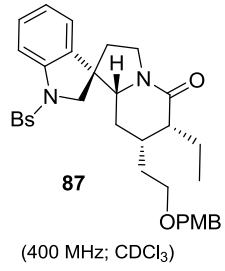
(400 MHz; CDCl₃)

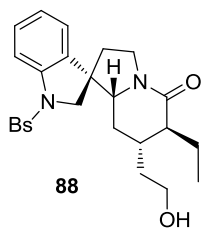


86

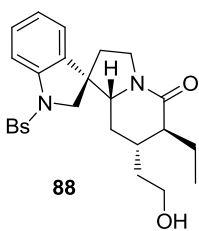
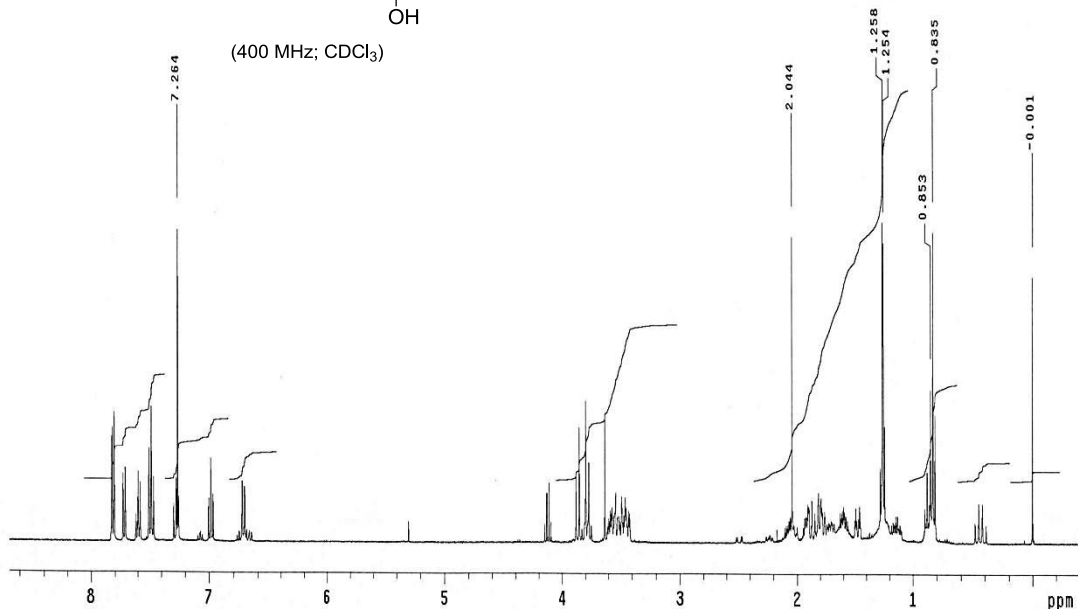
(100.6 MHz; CDCl₃)



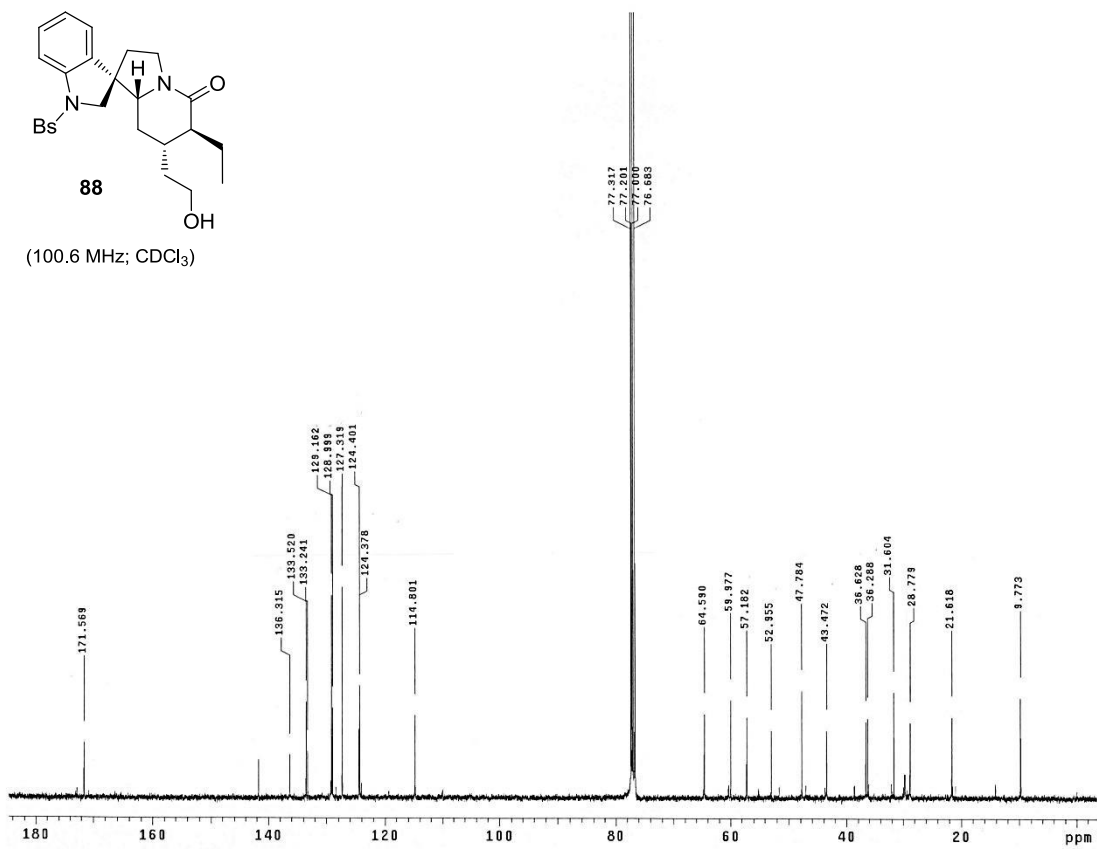


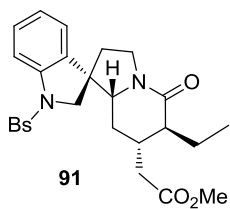


(400 MHz; CDCl₃)

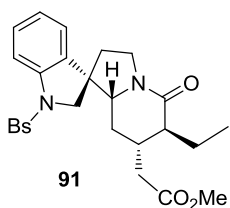
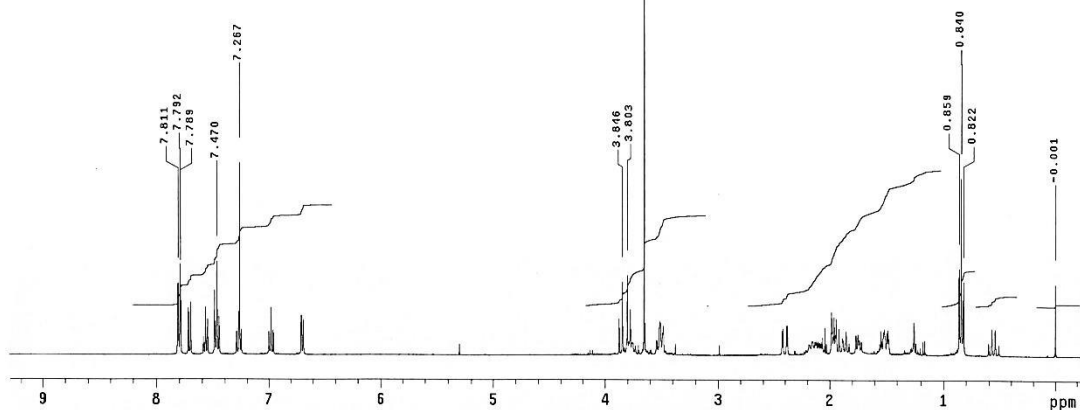


(100.6 MHz; CDCl₃)

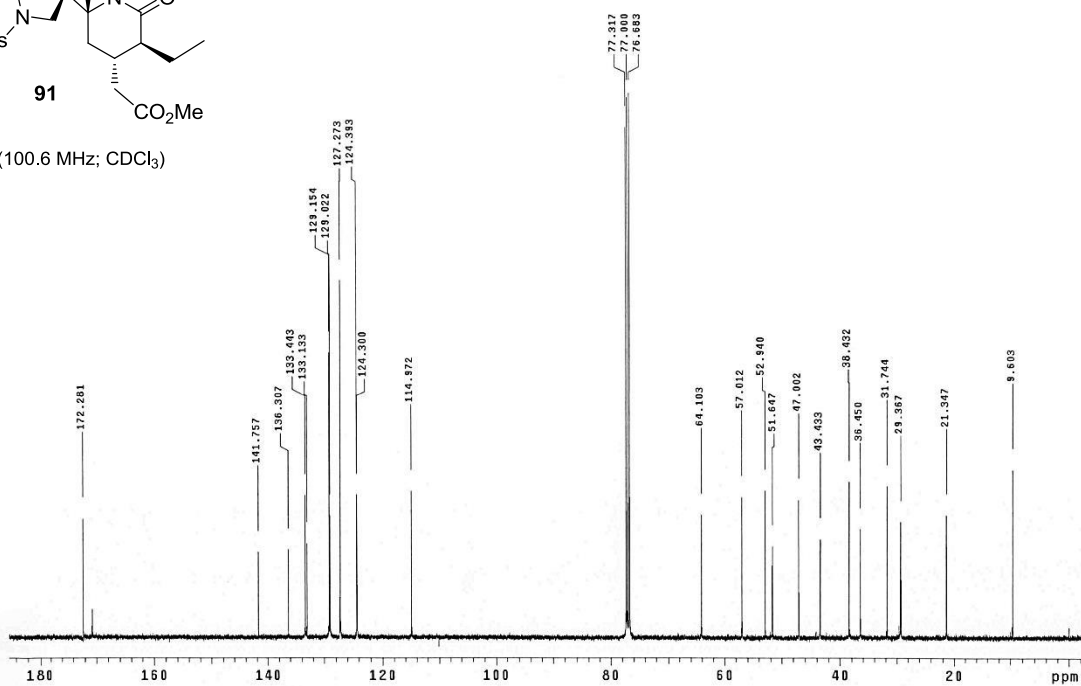


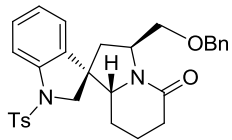


(400 MHz; CDCl₃)



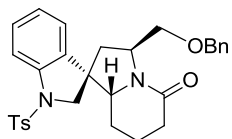
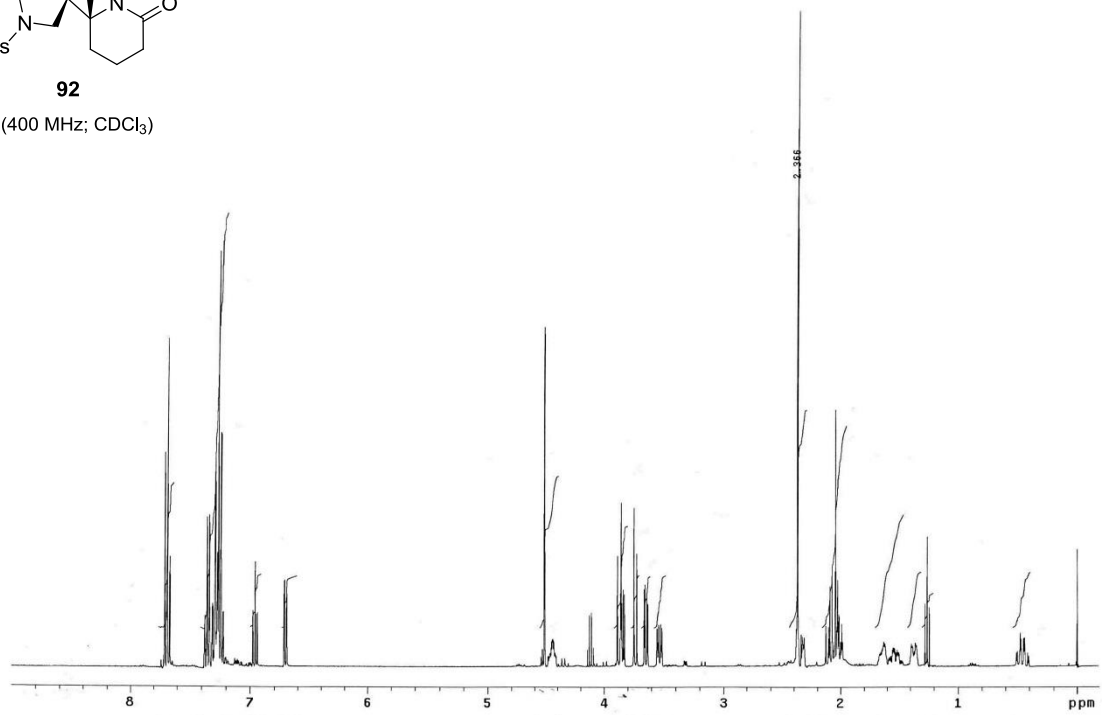
(100.6 MHz; CDCl₃)





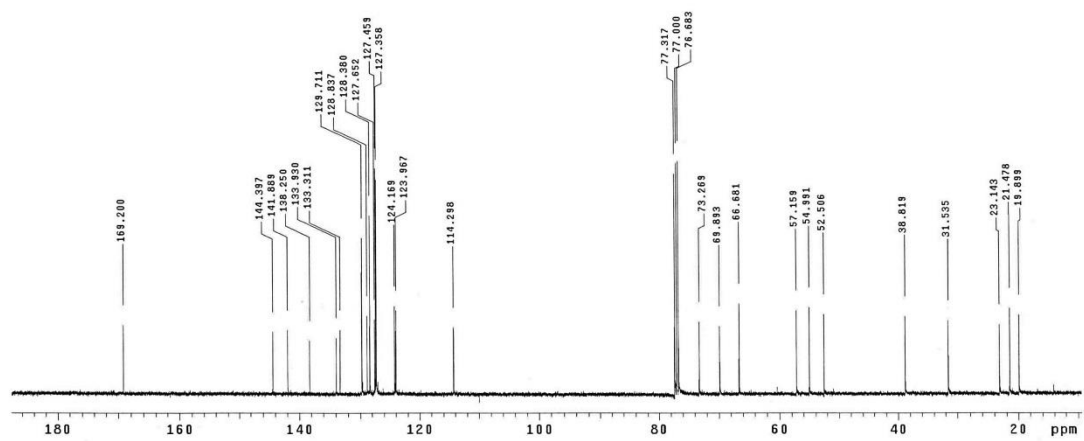
92

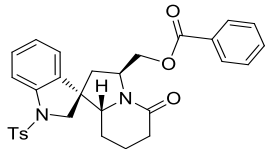
(400 MHz; CDCl₃)



92

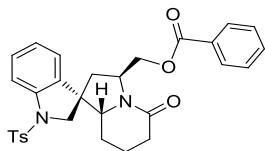
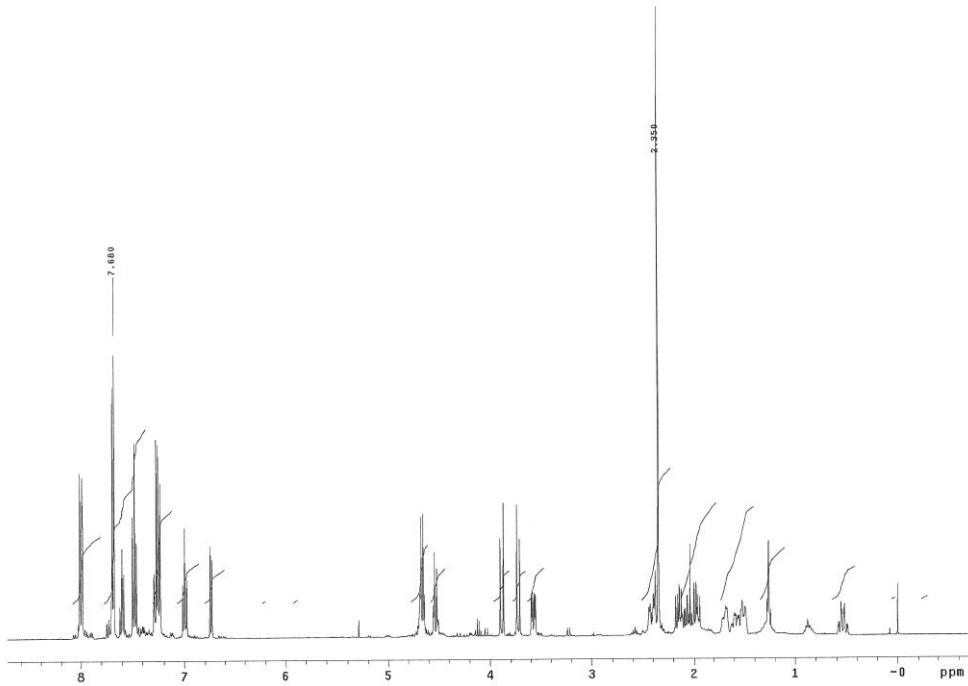
(100.6 MHz; CDCl₃)





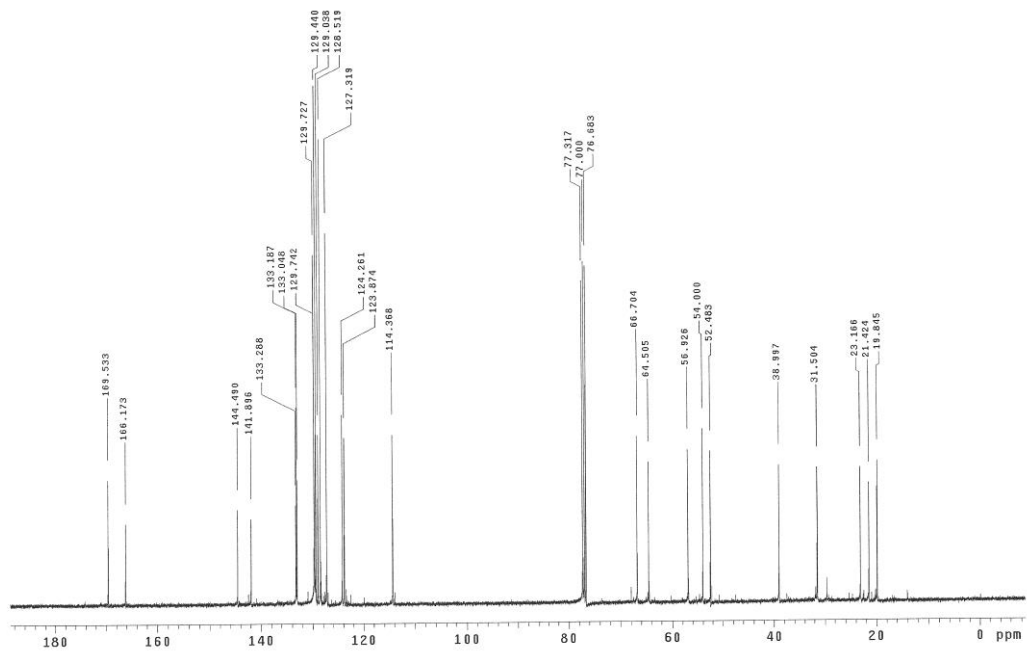
94

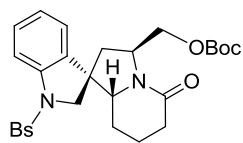
(400 MHz; CDCl₃)



94

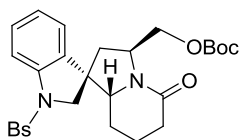
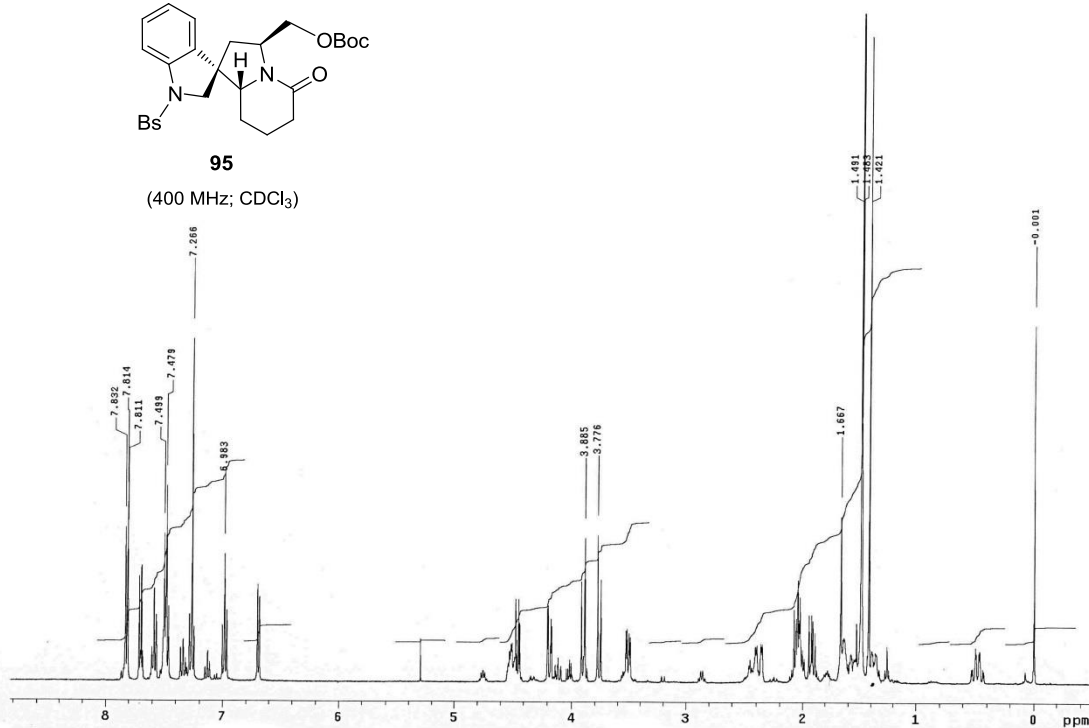
(100.6 MHz; CDCl₃)





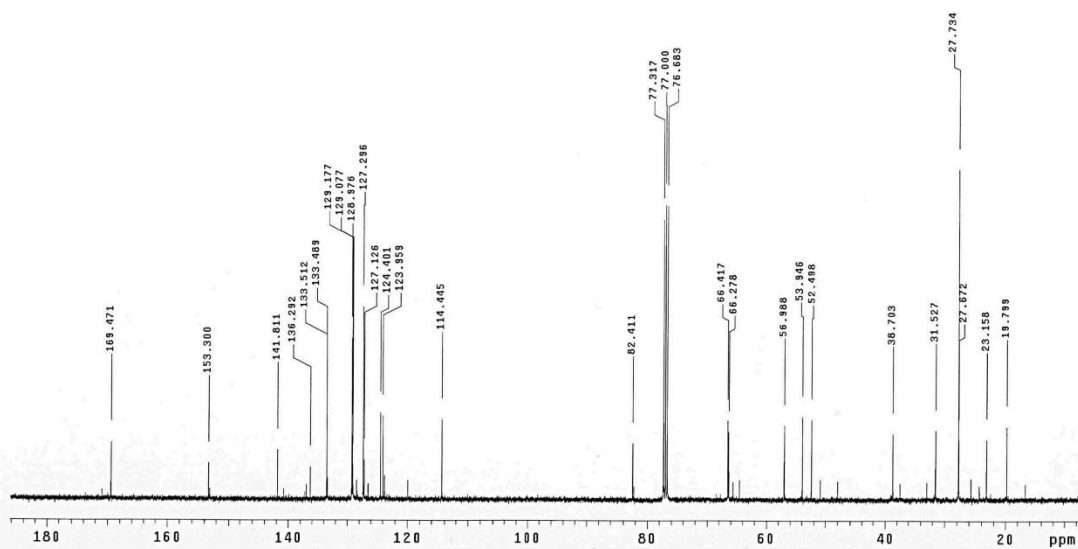
95

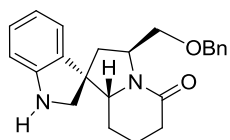
(400 MHz; CDCl₃)



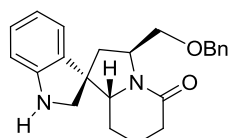
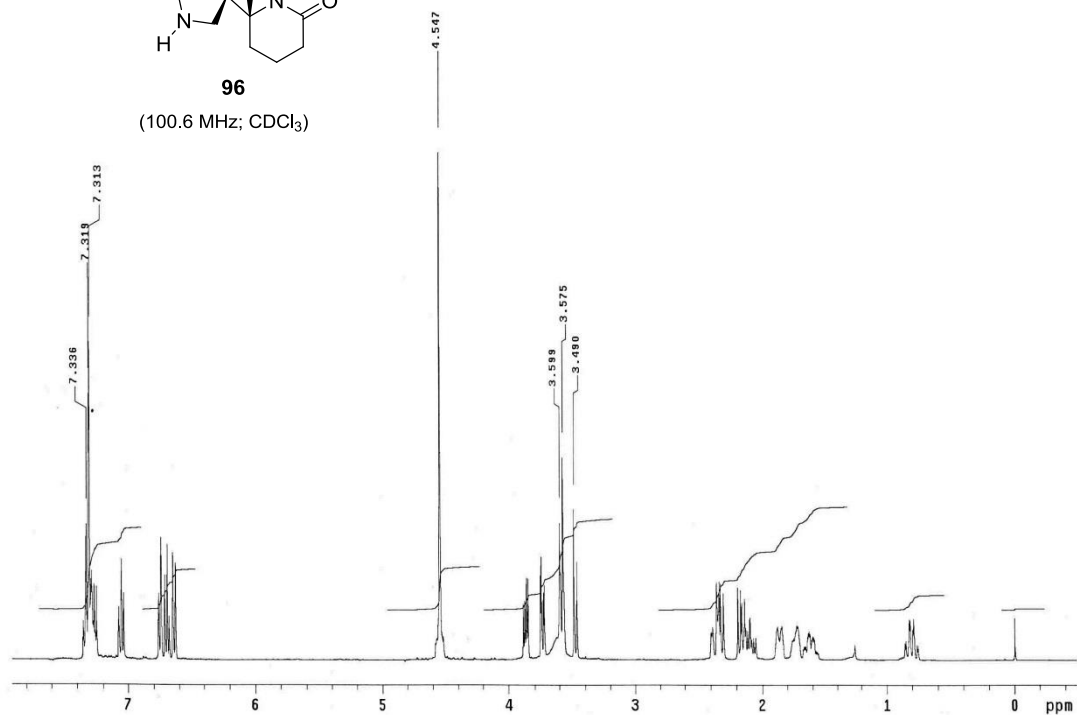
95

(100.6 MHz; CDCl₃)

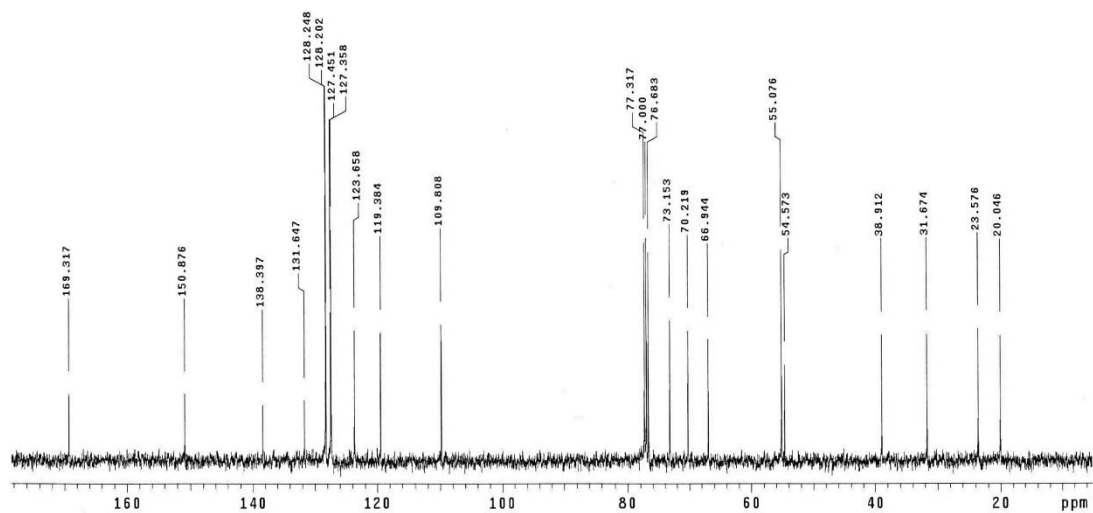


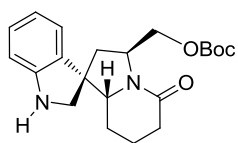


96
(100.6 MHz; CDCl₃)



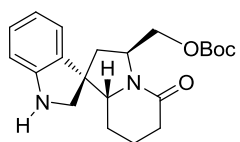
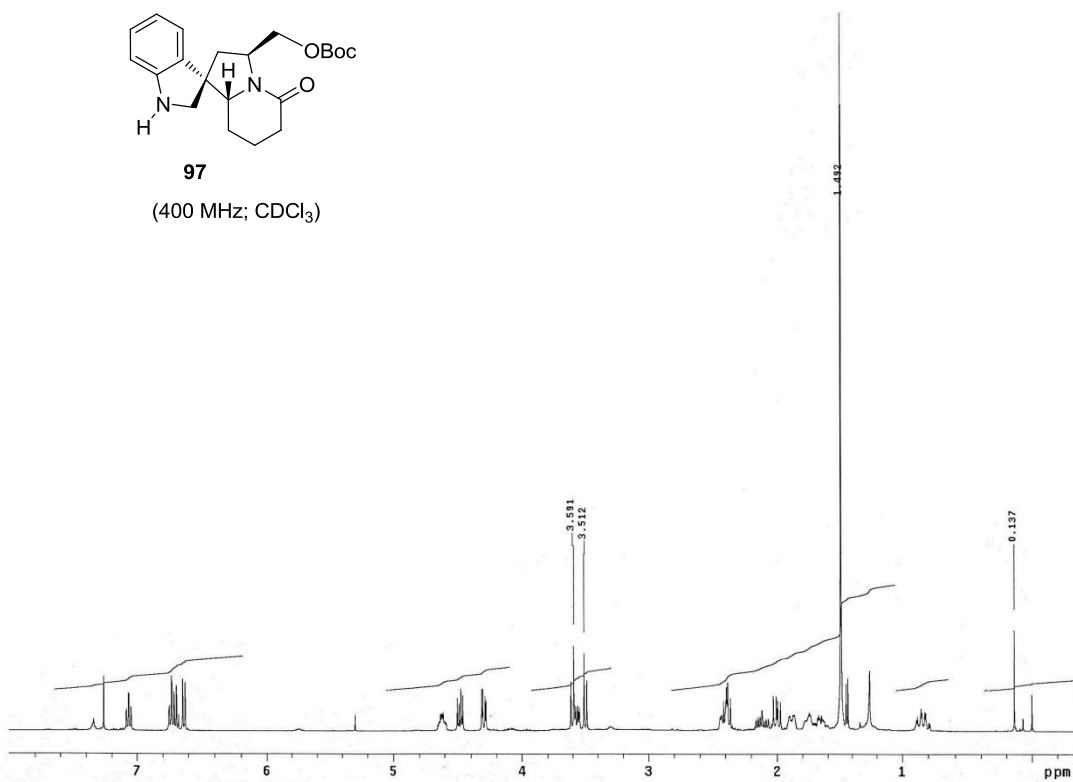
96
(100.6 MHz; CDCl₃)





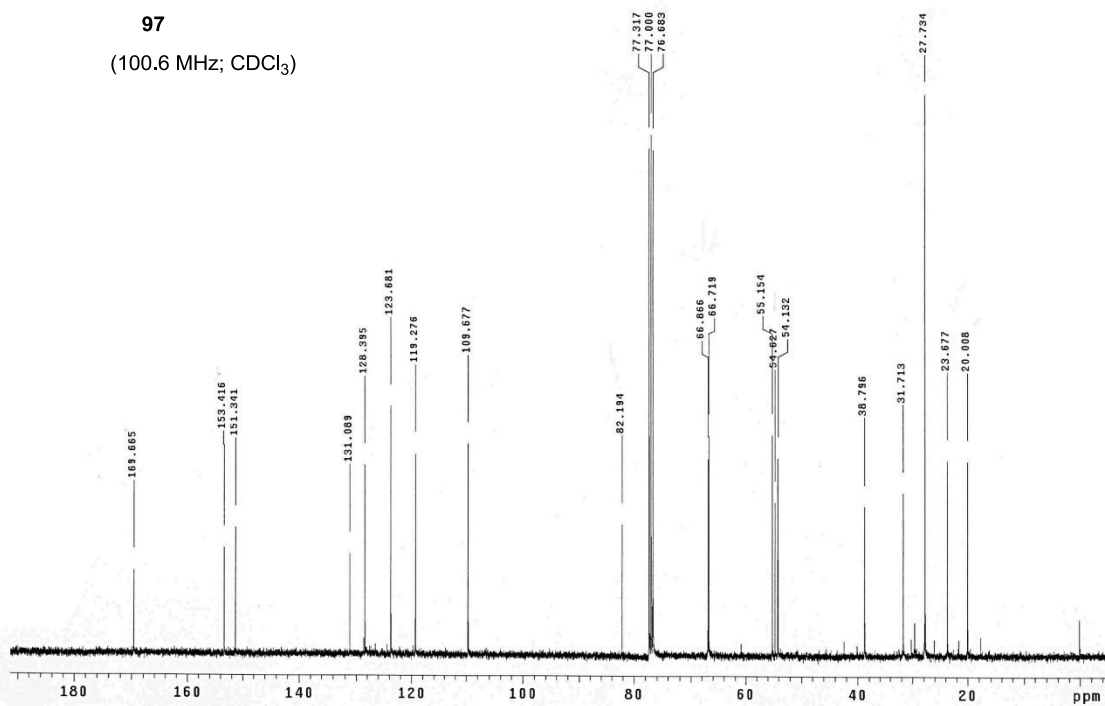
97

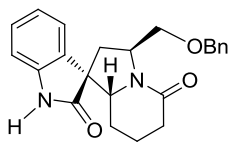
(400 MHz; CDCl₃)



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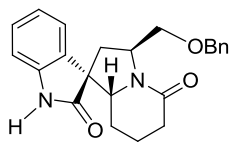
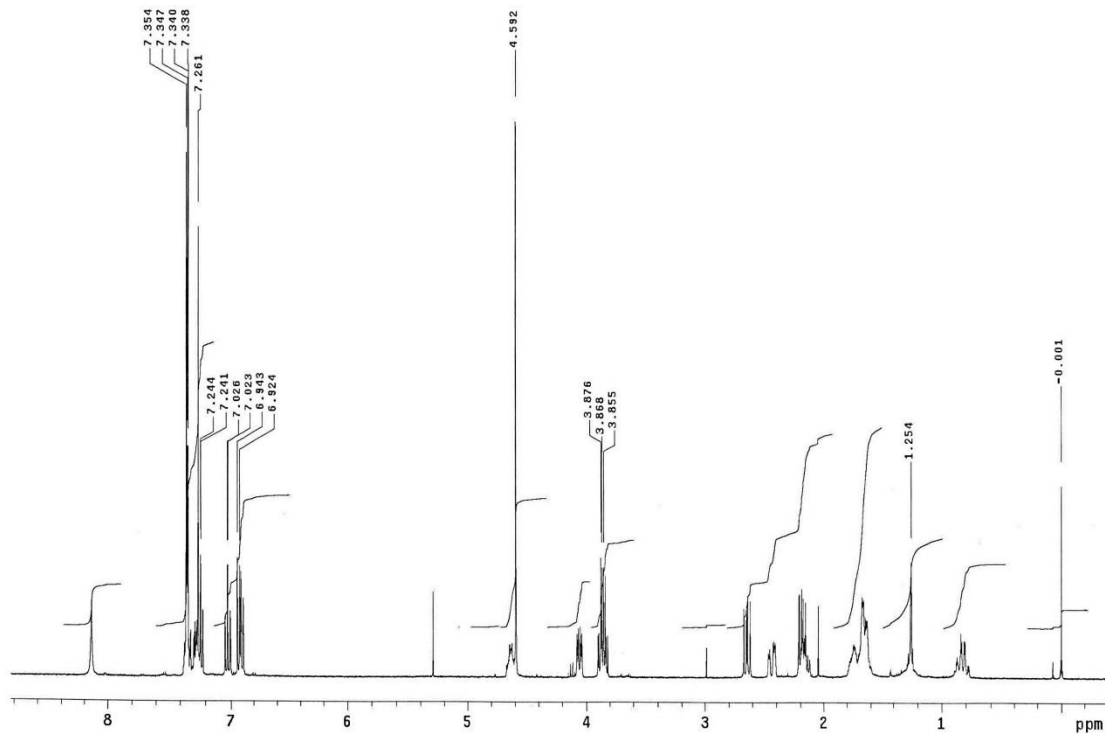
(100.6 MHz; CDCl₃)





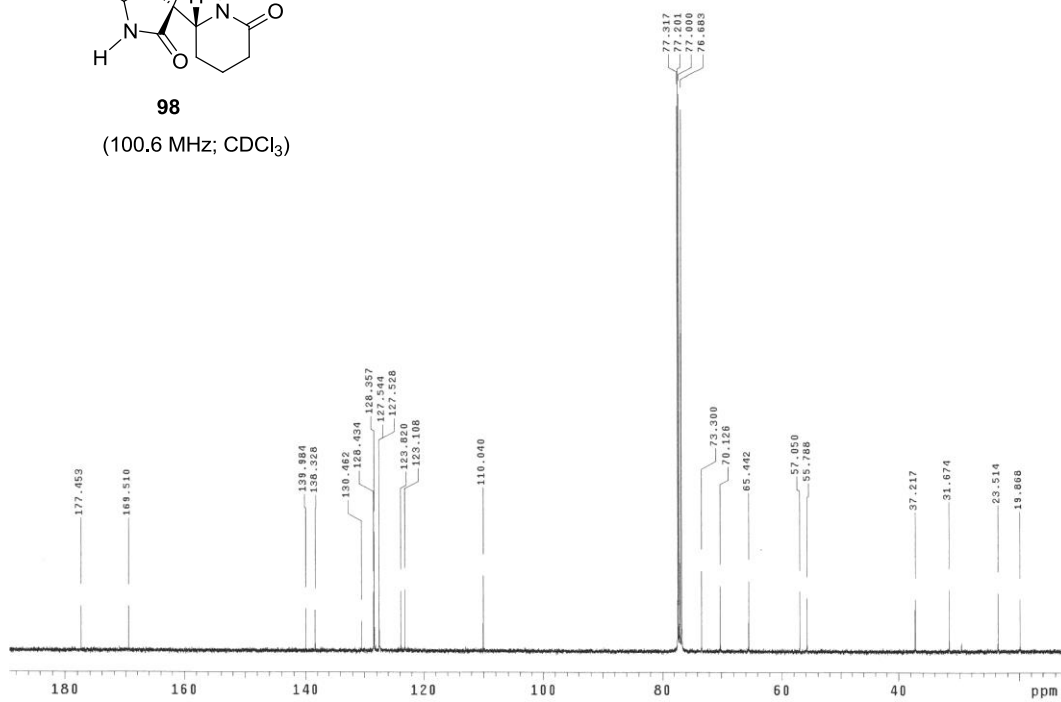
98

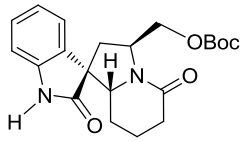
(400 MHz; CDCl₃)



98

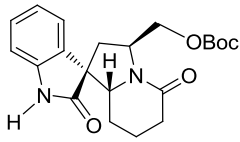
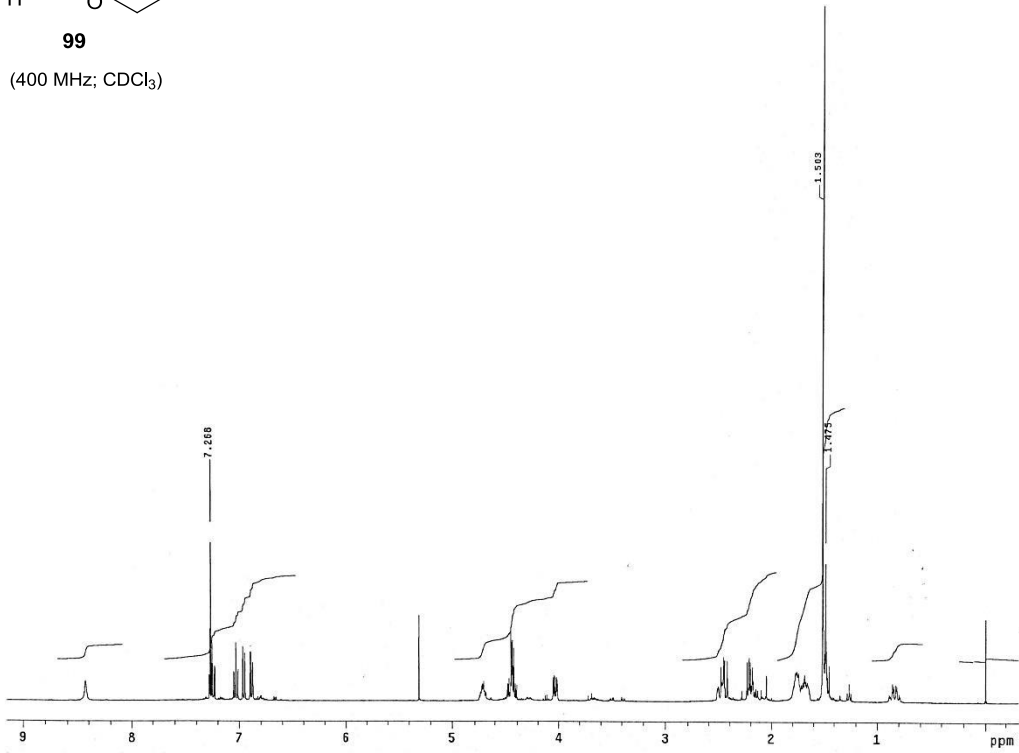
(100.6 MHz; CDCl₃)





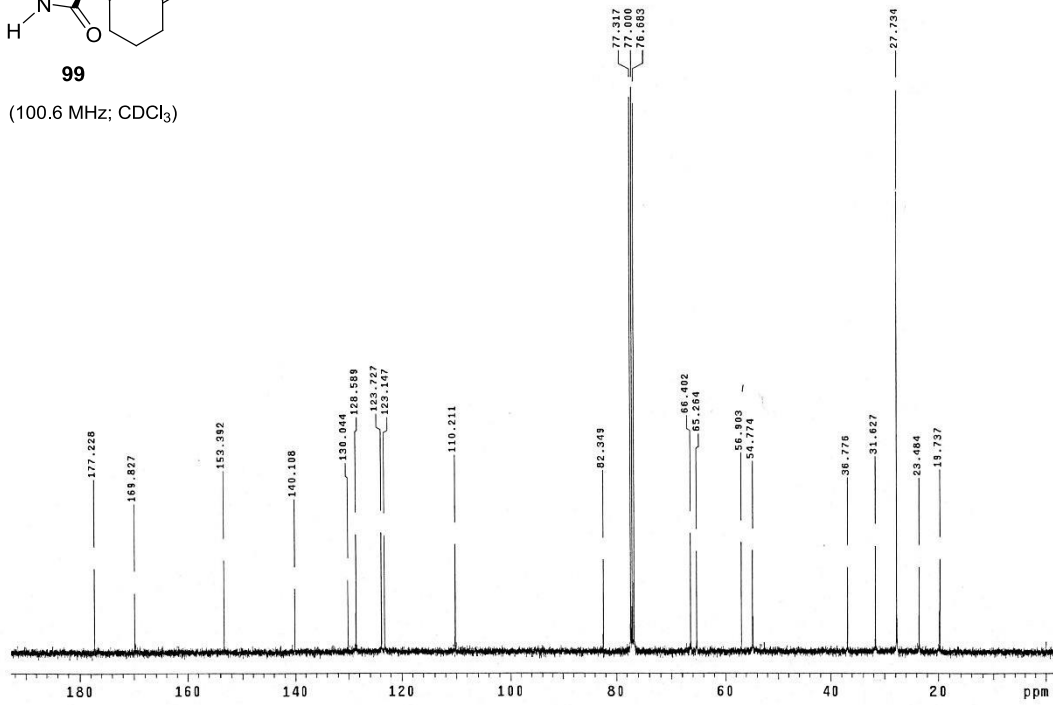
99

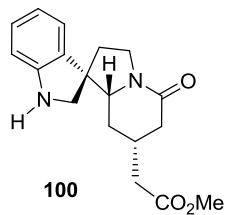
(400 MHz; CDCl₃)



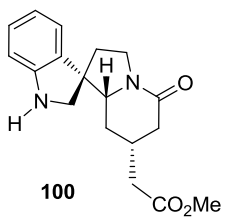
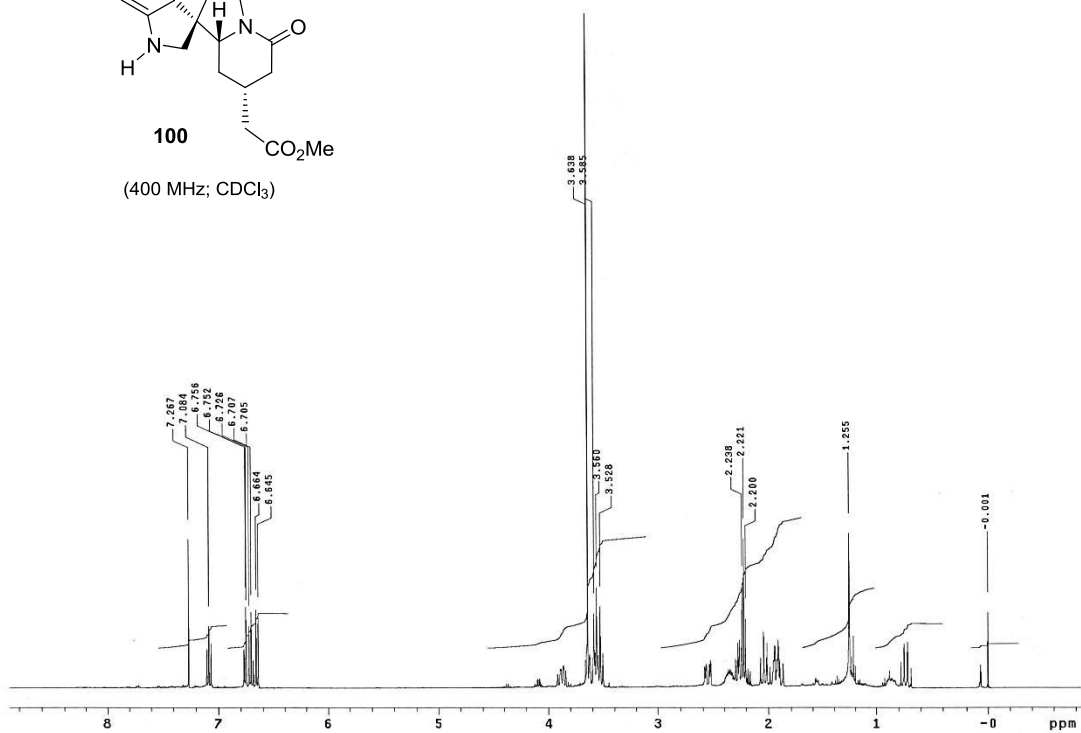
99

(100.6 MHz; CDCl₃)

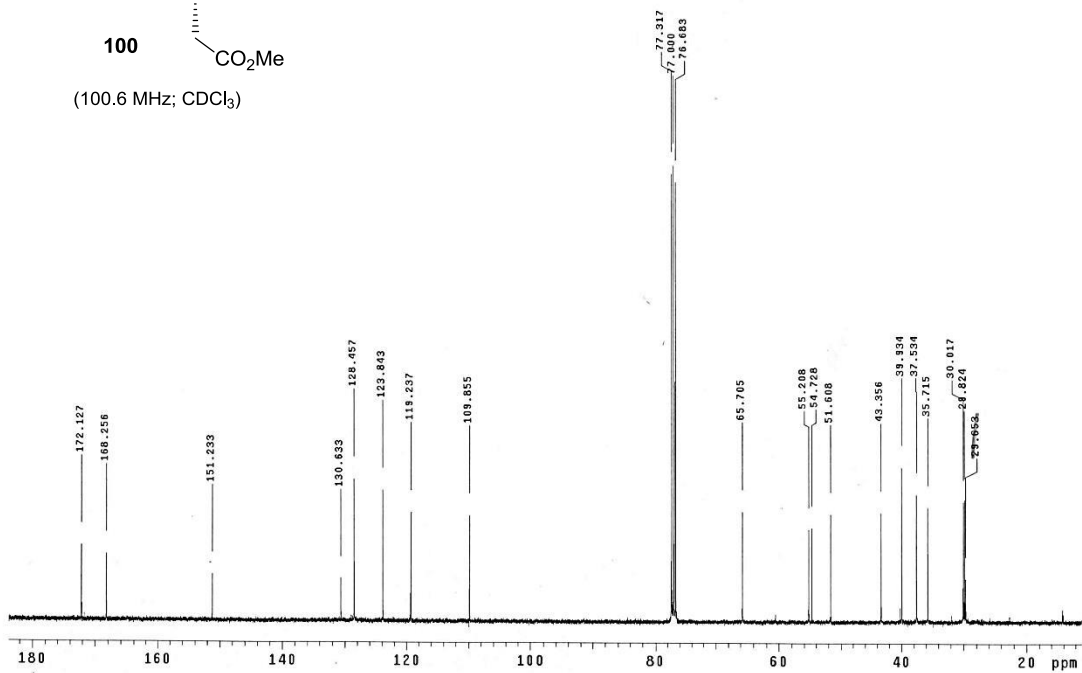


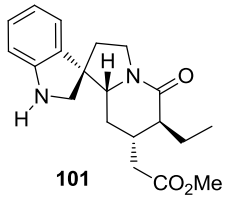


(400 MHz; CDCl₃)

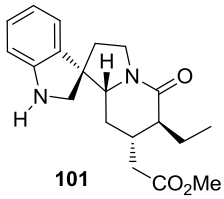
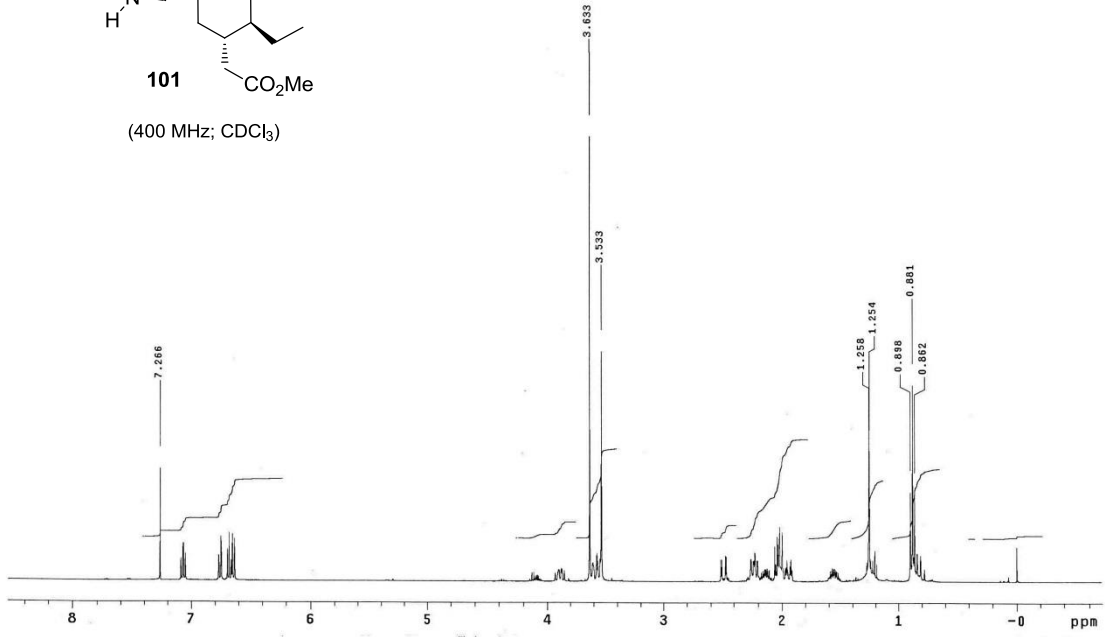


(100.6 MHz; CDCl₃)

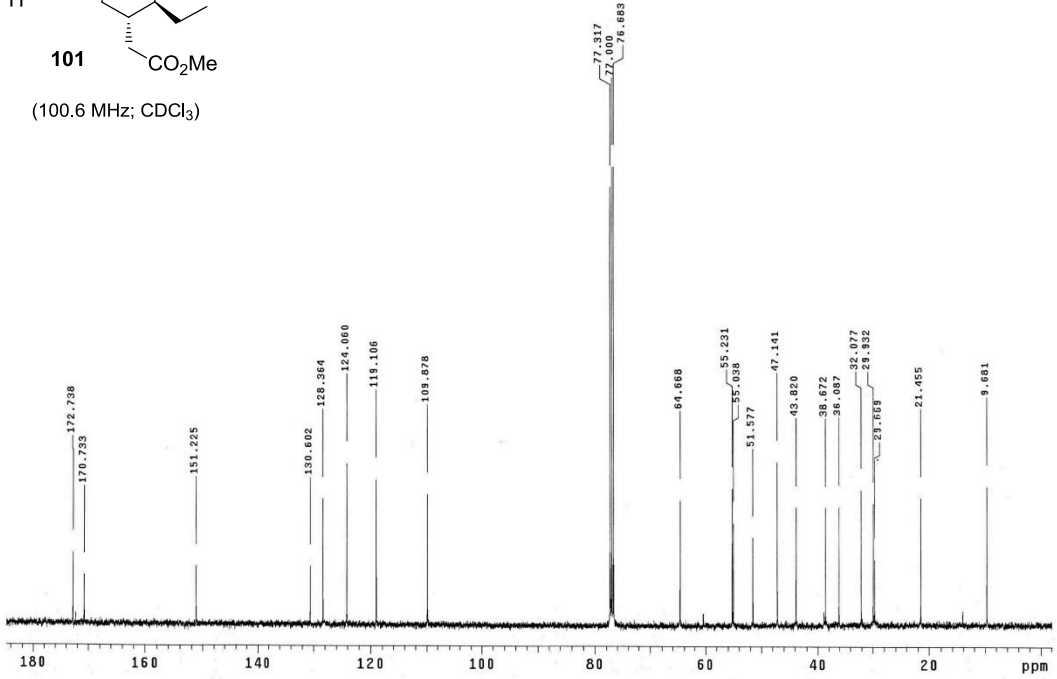


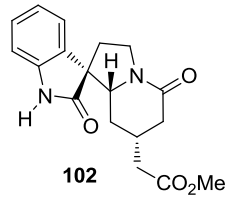


(400 MHz; CDCl₃)

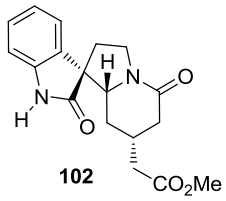
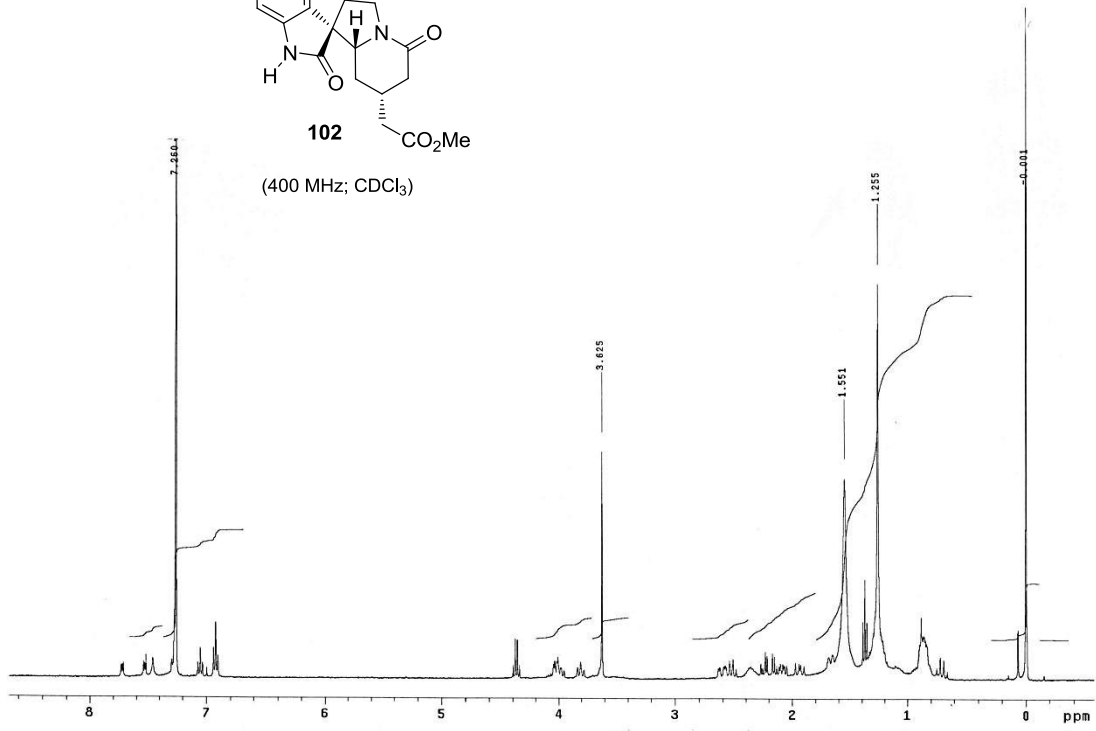


(100.6 MHz; CDCl₃)

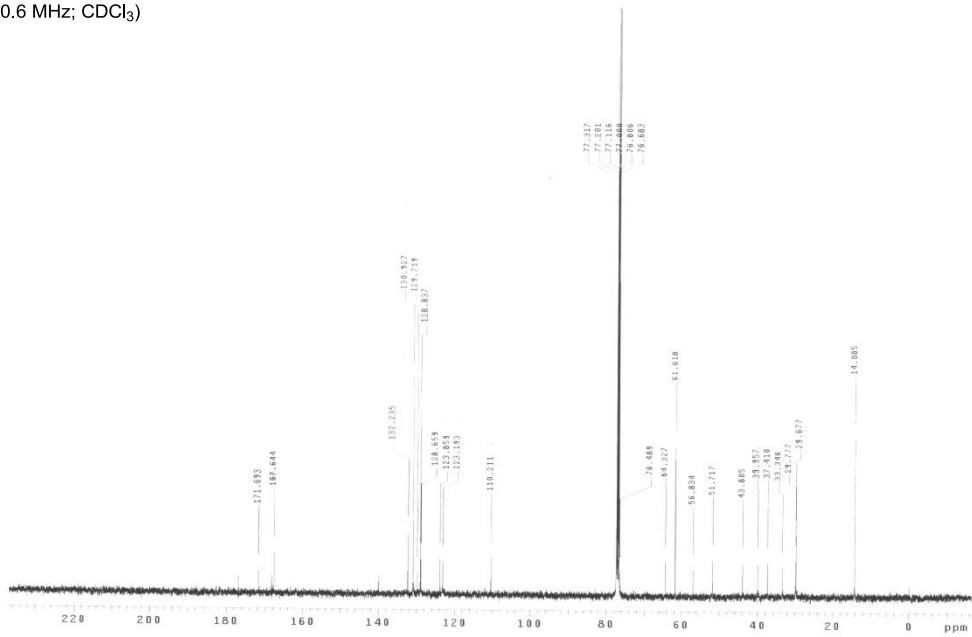


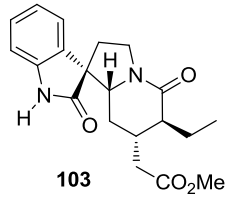


(400 MHz; CDCl₃)

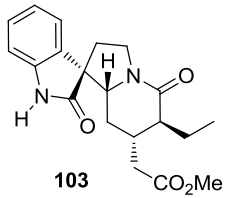
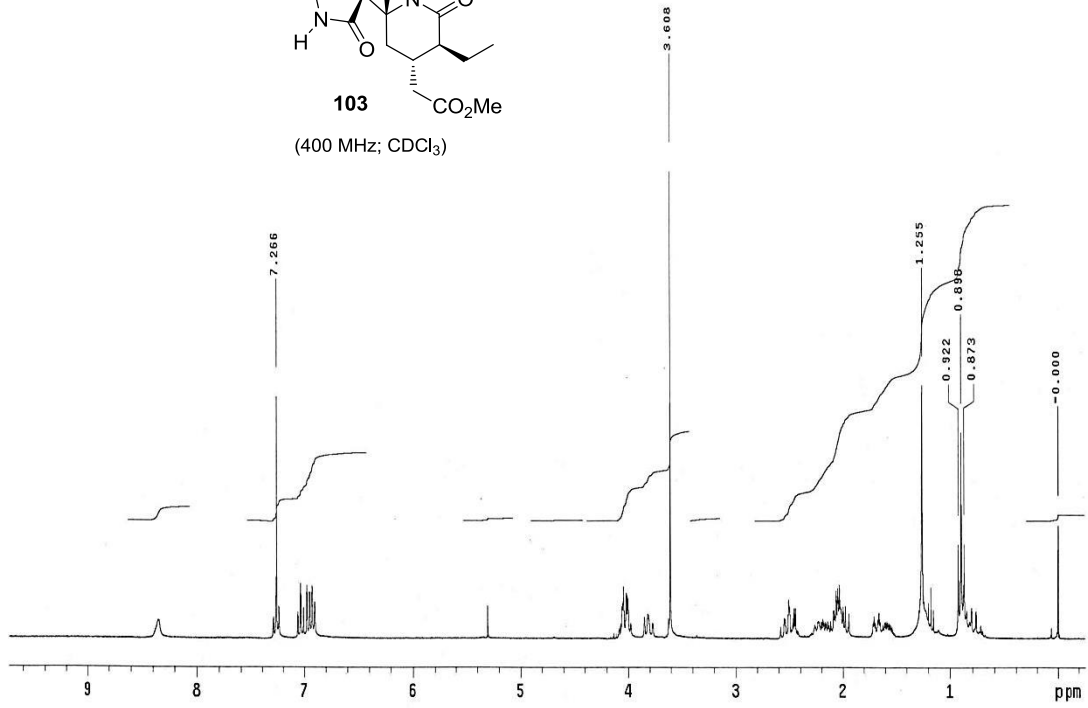


(100.6 MHz; CDCl₃)

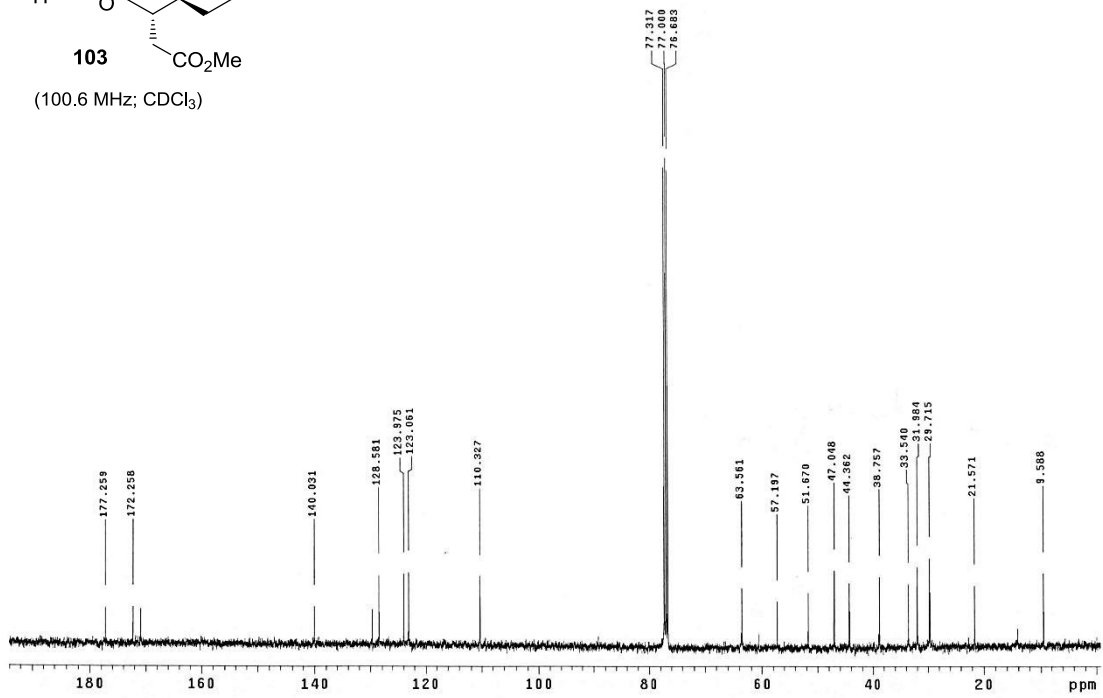


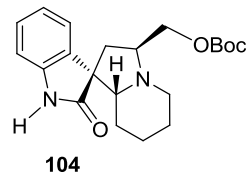


(400 MHz; CDCl₃)

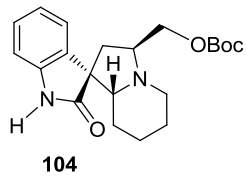
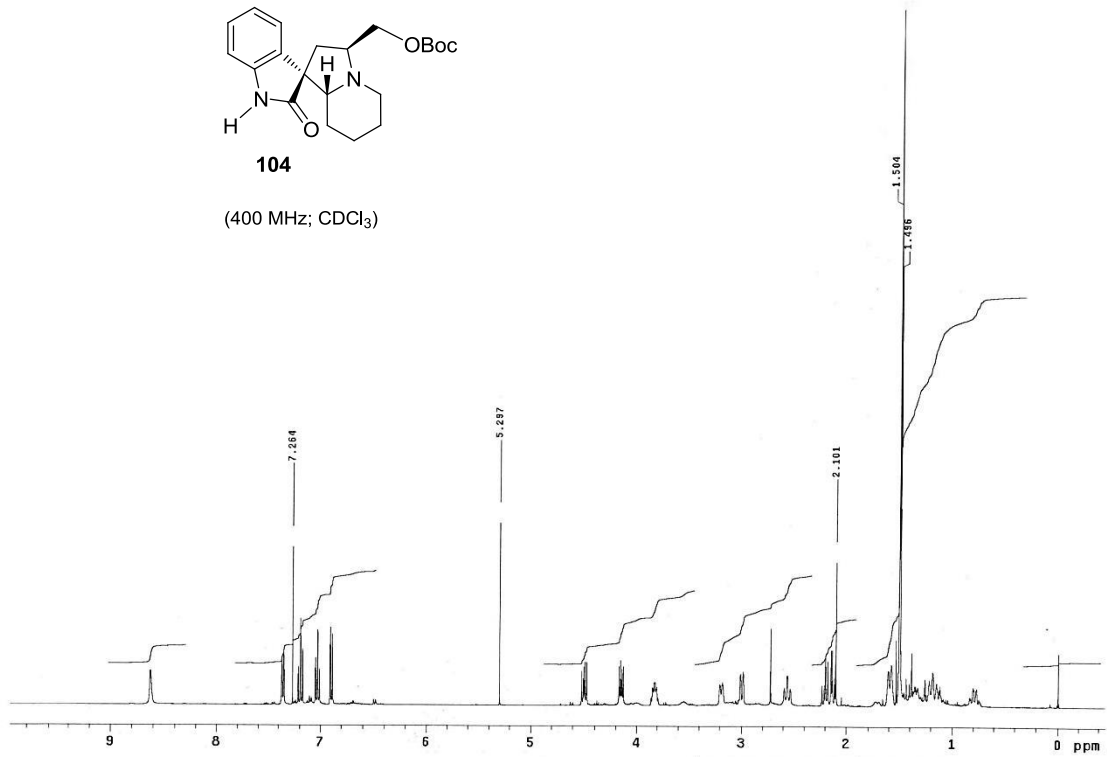


(100.6 MHz; CDCl₃)

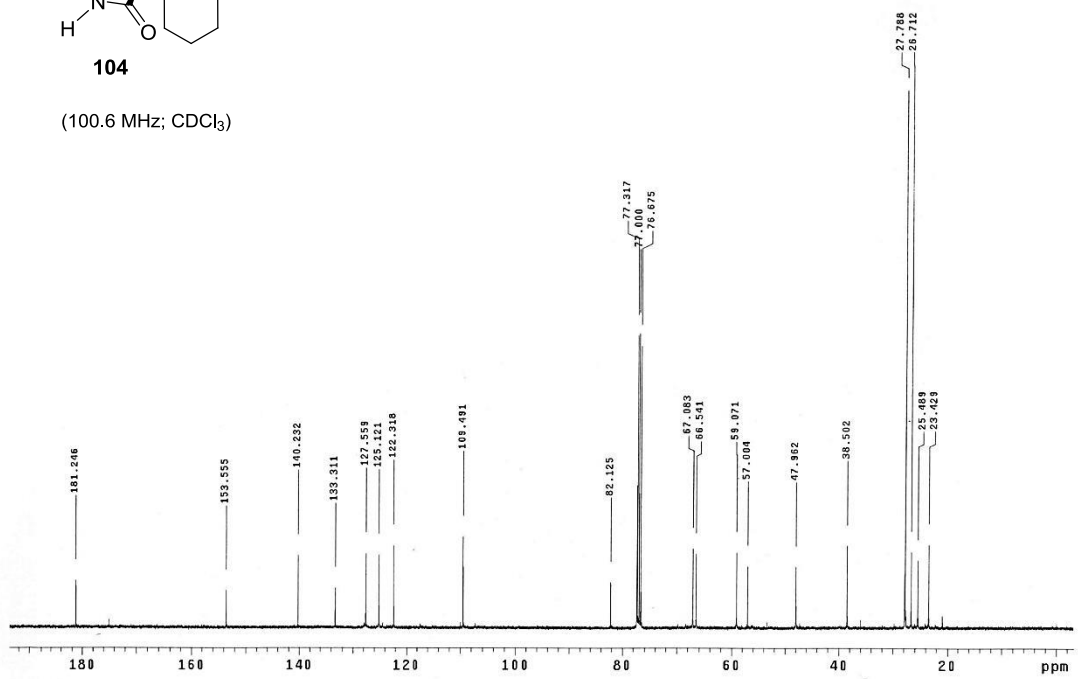


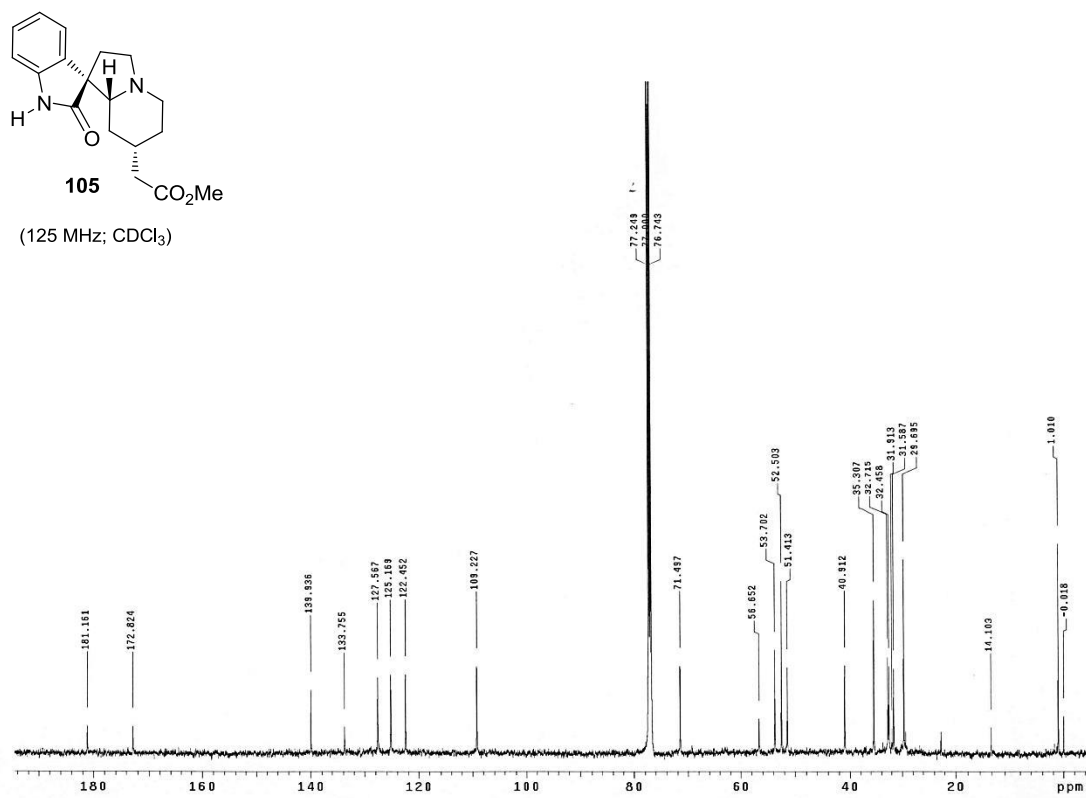
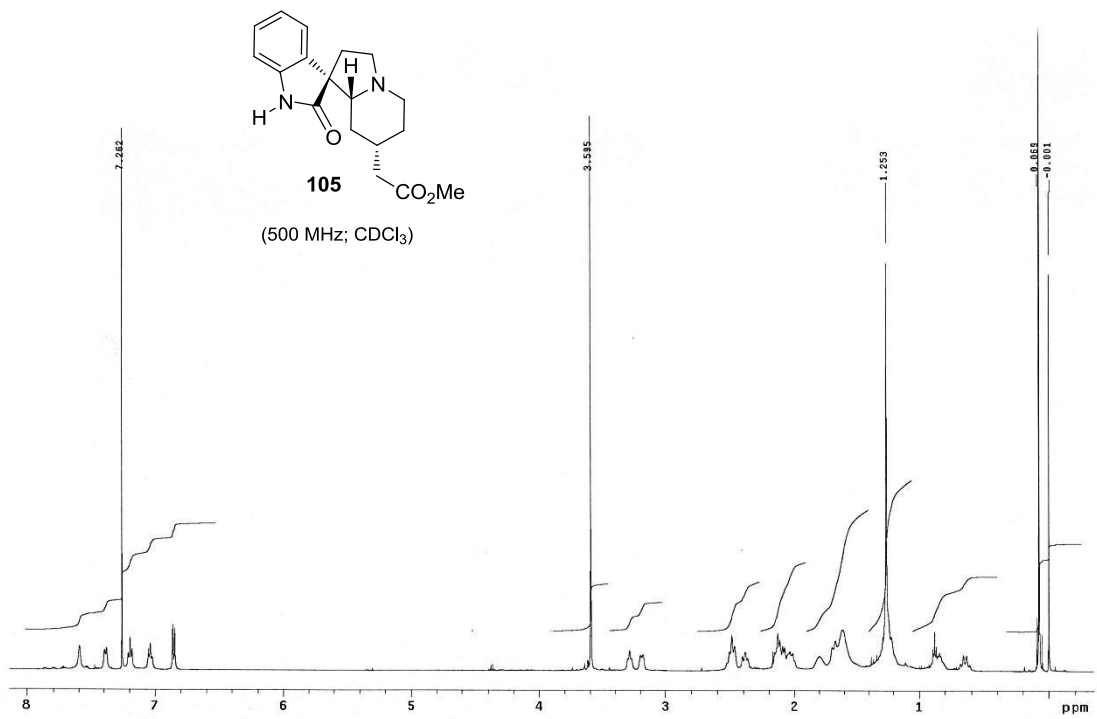


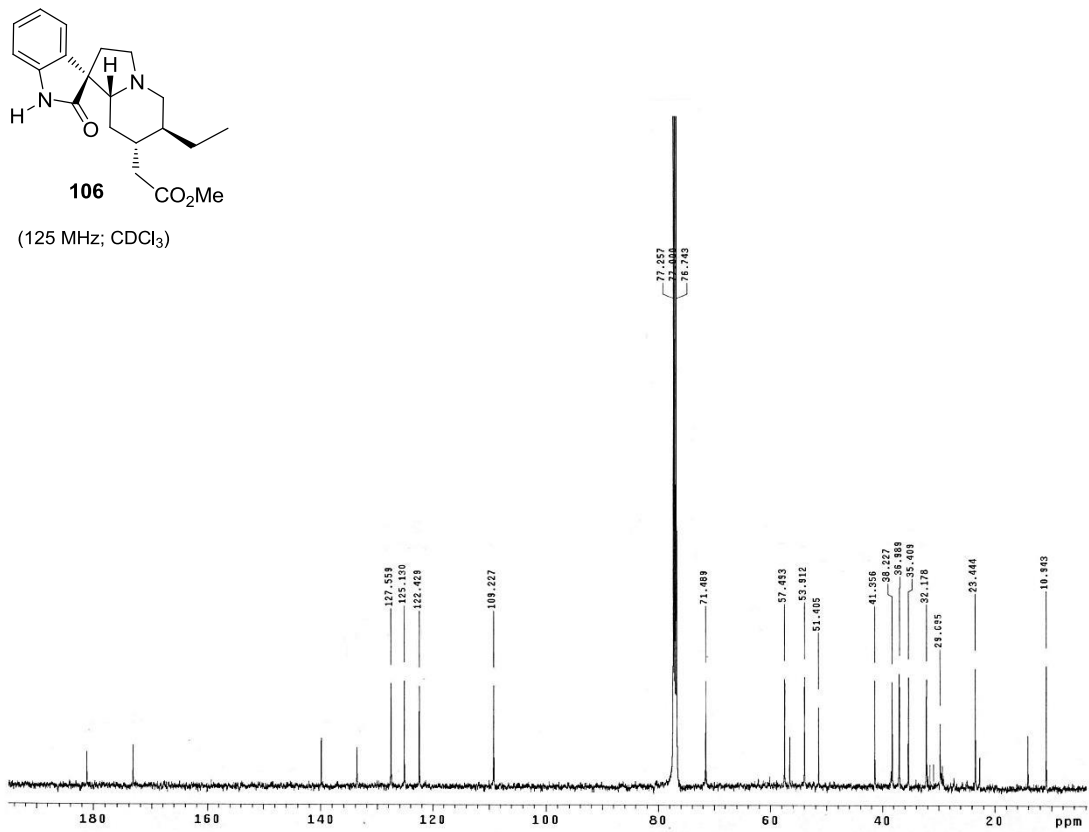
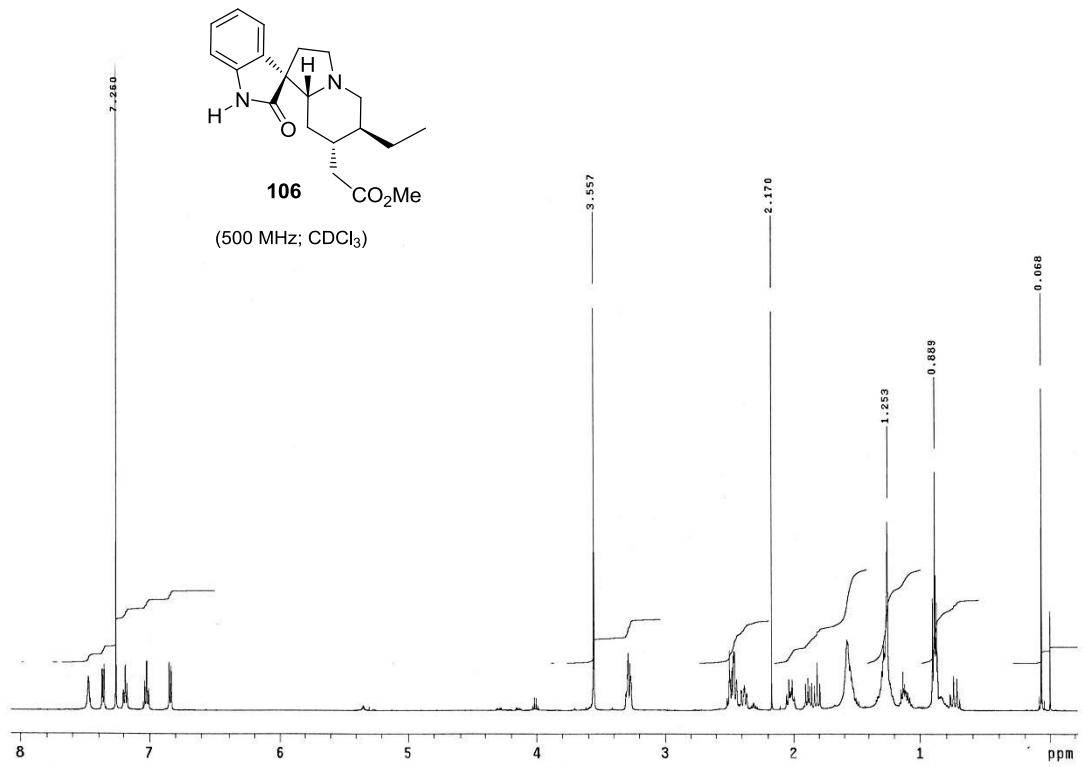
(400 MHz; CDCl₃)

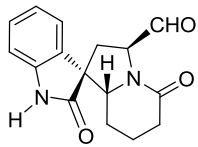


(100.6 MHz; CDCl₃)



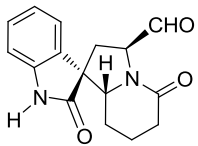
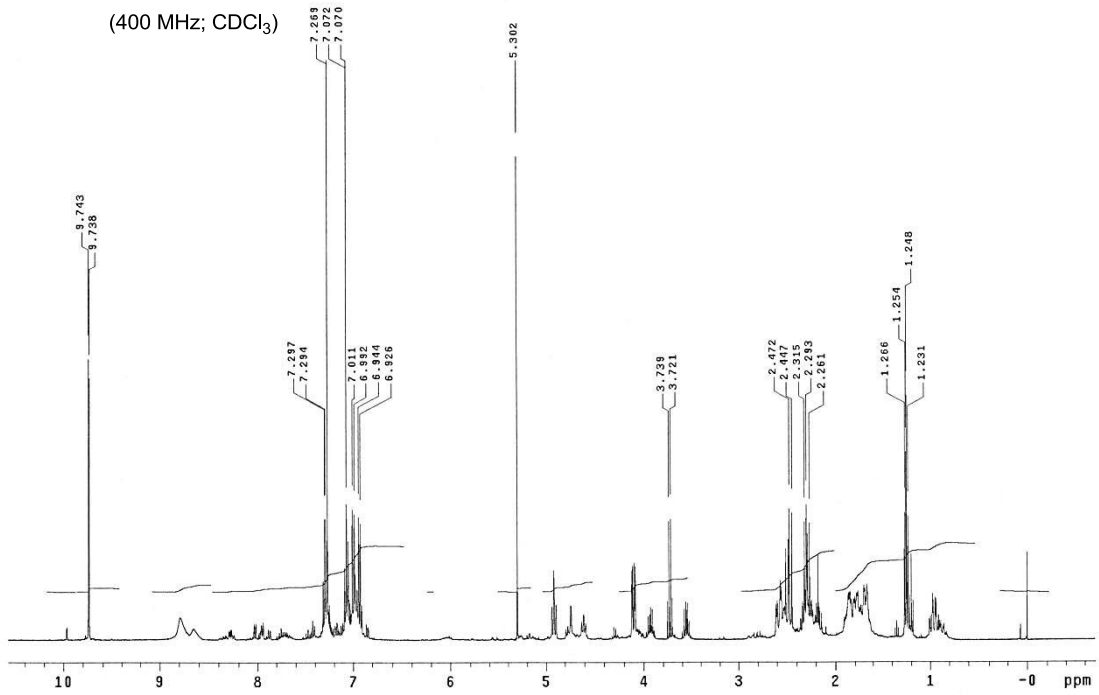






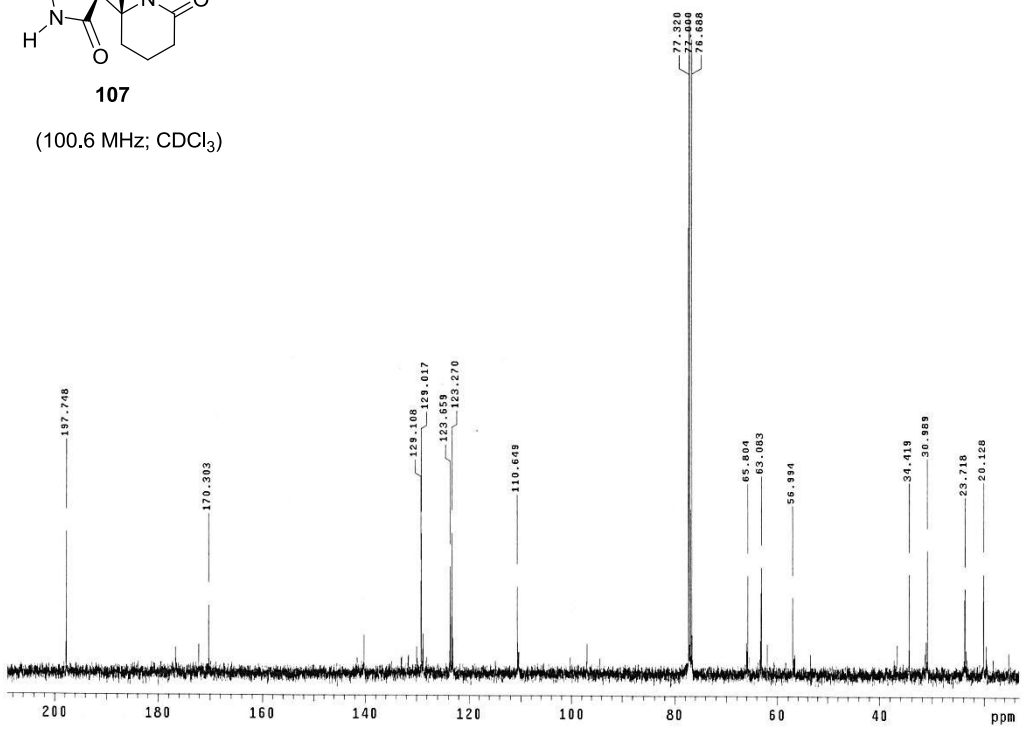
107

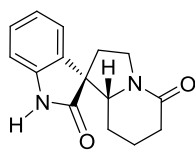
(400 MHz; CDCl₃)



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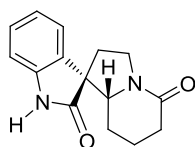
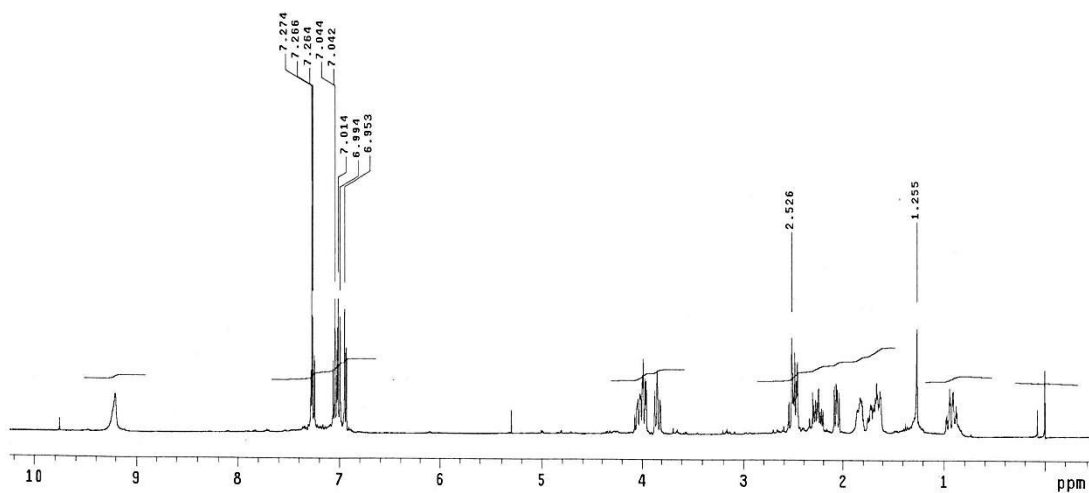
(100.6 MHz; CDCl₃)





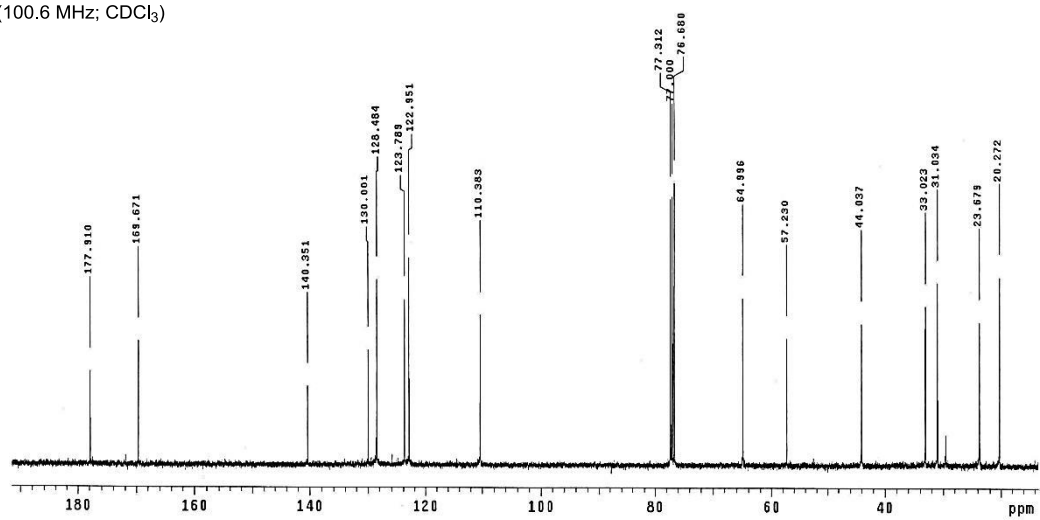
109

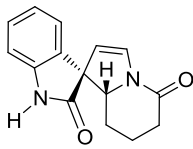
(400 MHz; CDCl₃)



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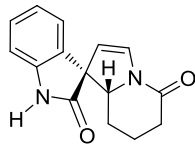
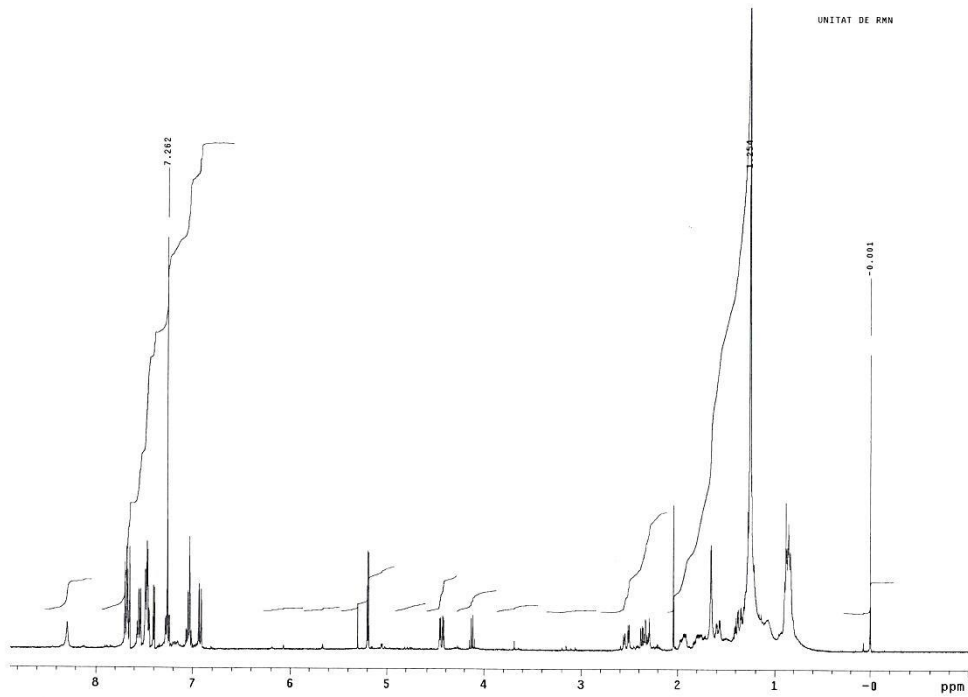
(100.6 MHz; CDCl₃)





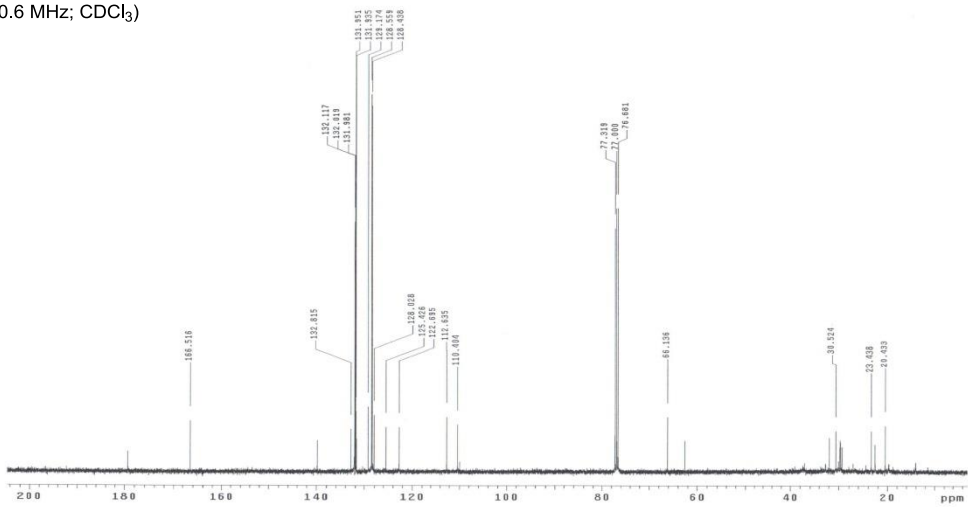
110

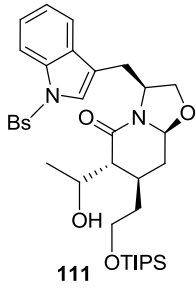
(400 MHz; CDCl₃)



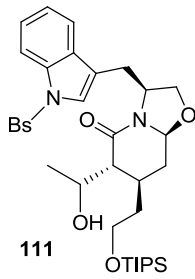
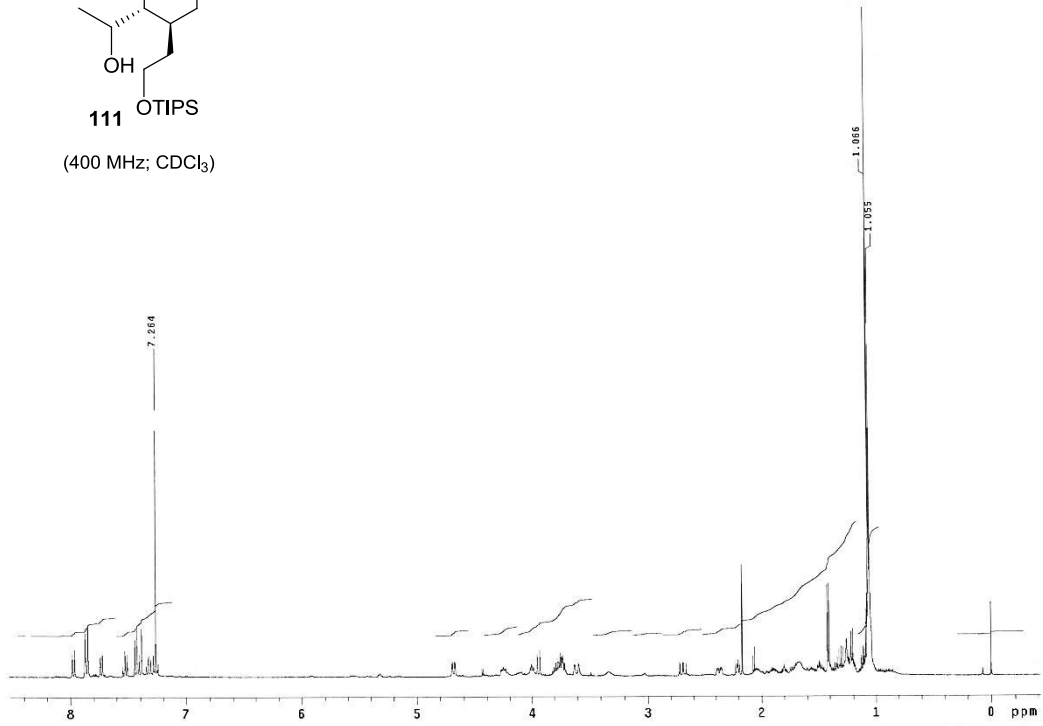
110

(100.6 MHz; CDCl₃)

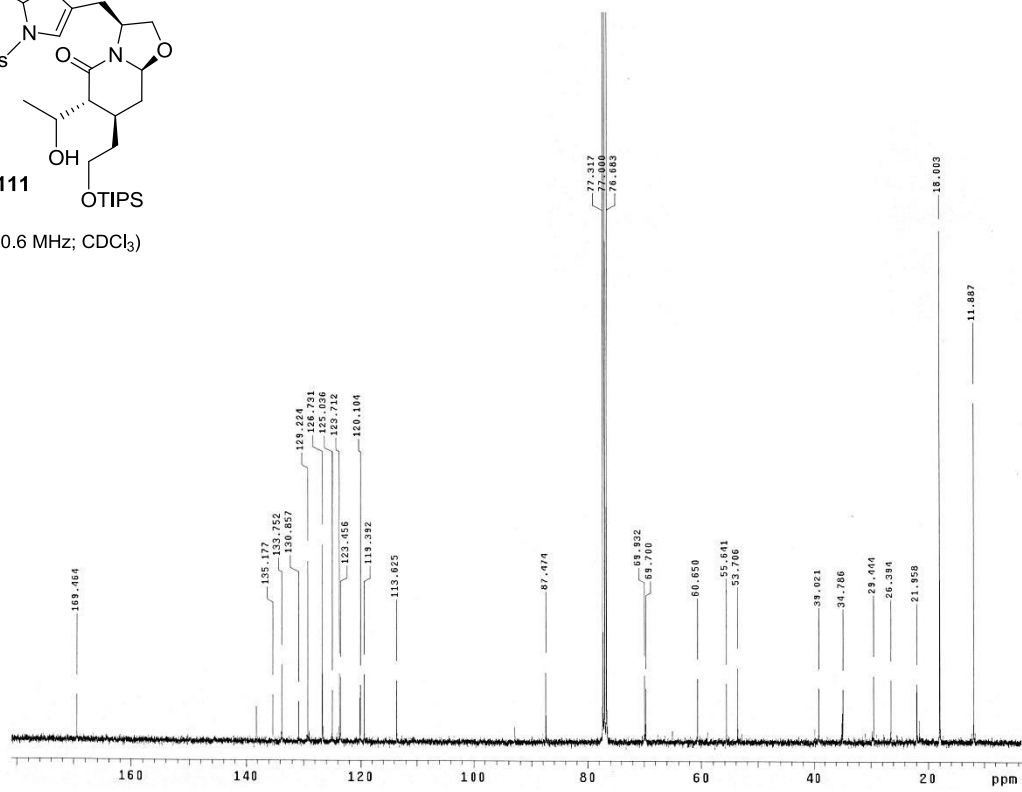


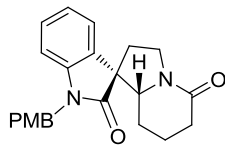


(400 MHz; CDCl₃)



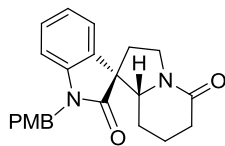
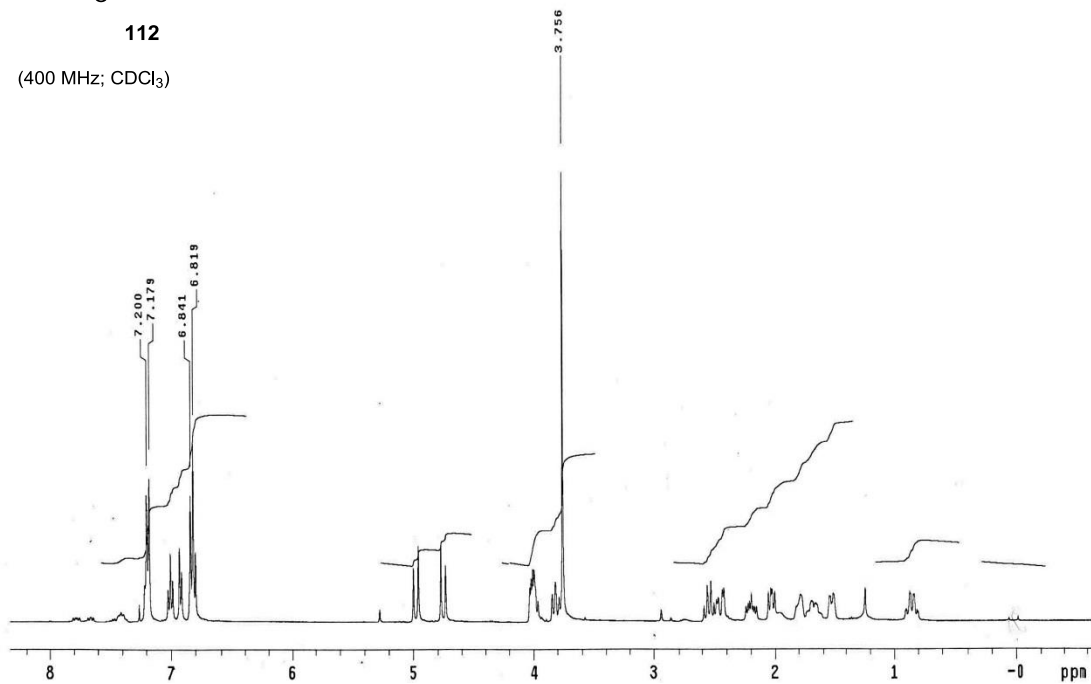
(100.6 MHz; CDCl₃)





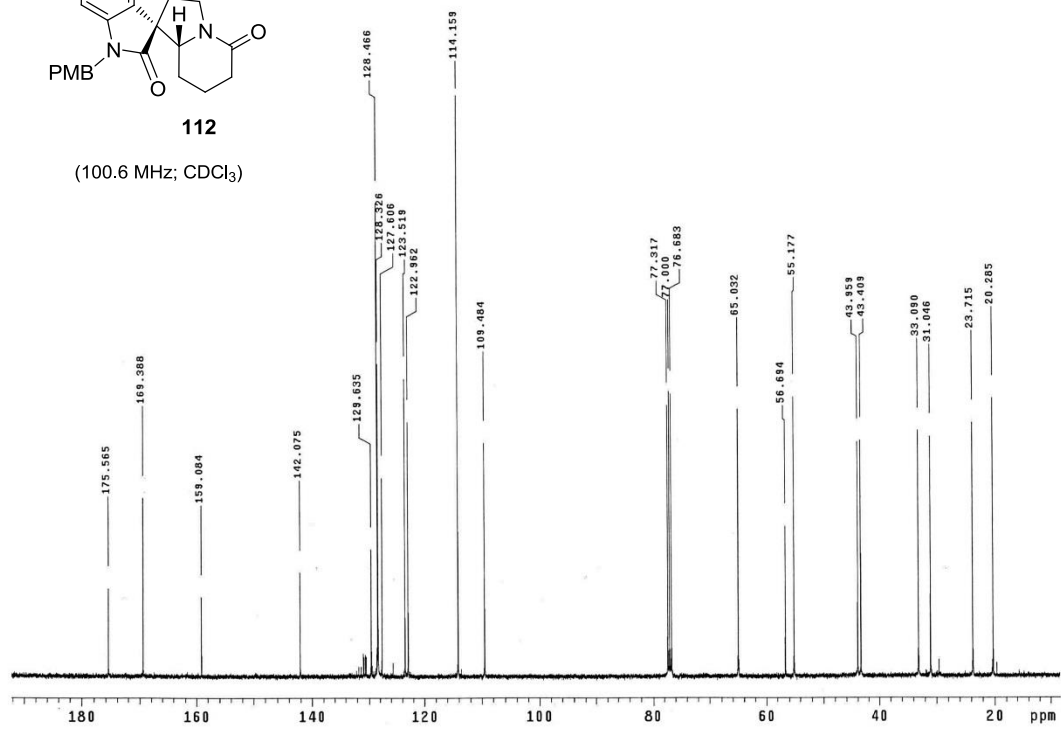
112

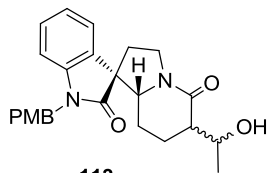
(400 MHz; CDCl₃)



112

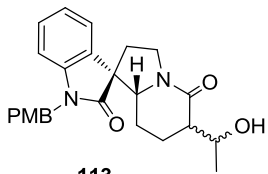
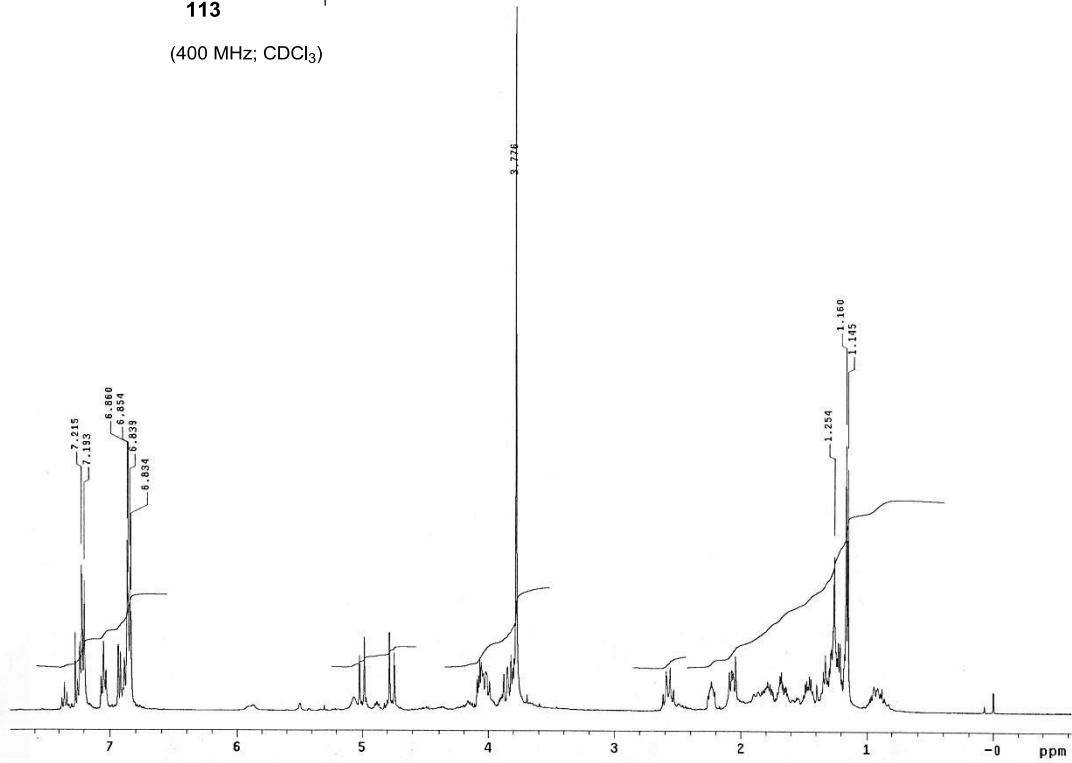
(100.6 MHz; CDCl₃)





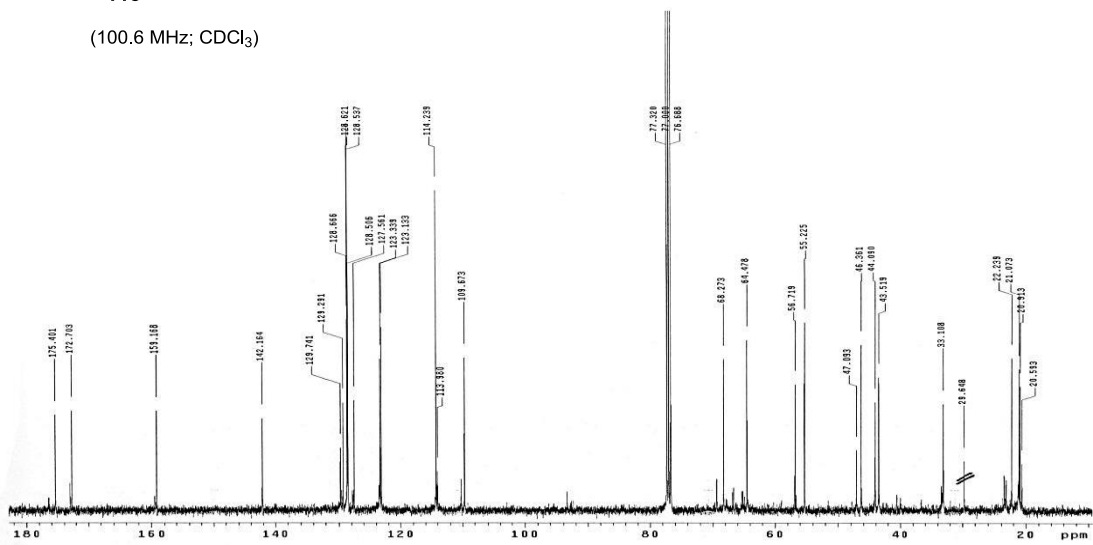
113

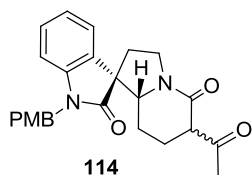
(400 MHz; CDCl₃)



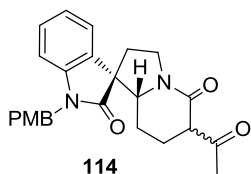
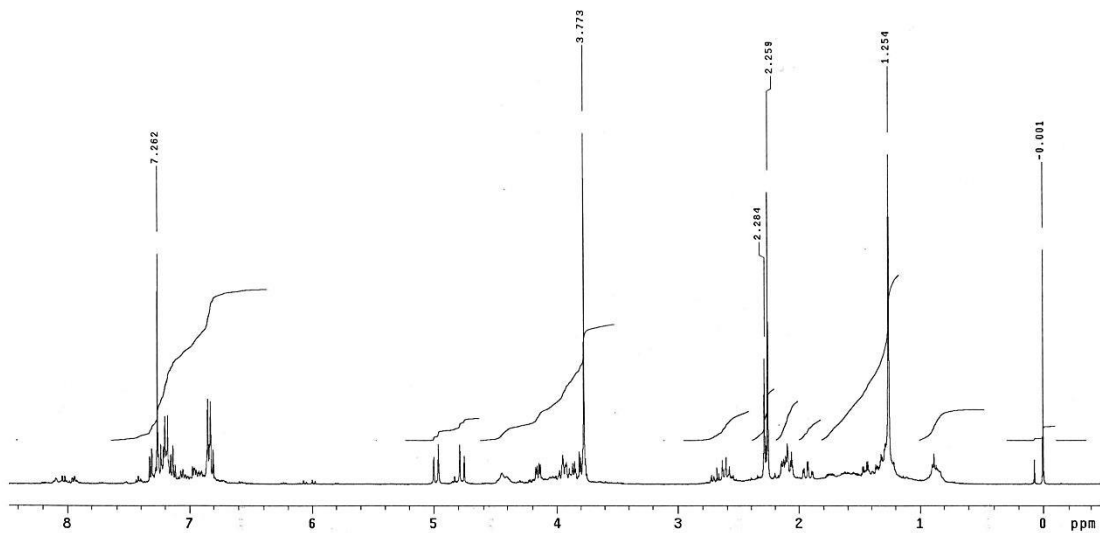
113

(100.6 MHz; CDCl₃)

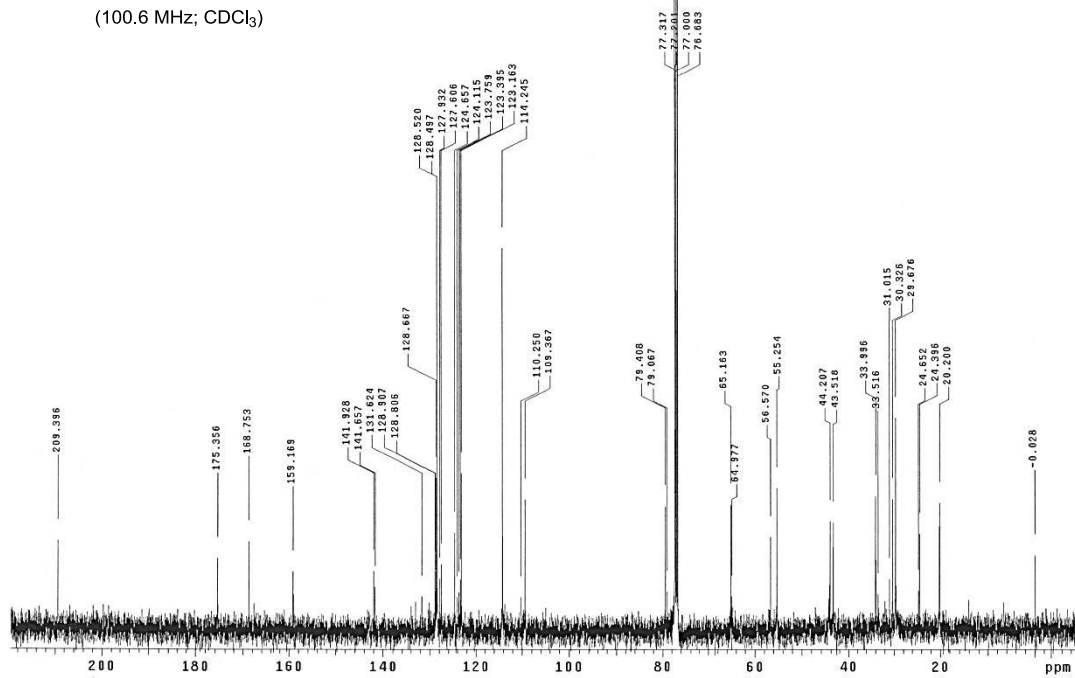


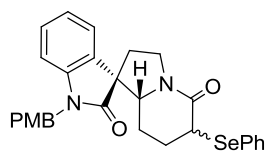


(400 MHz; CDCl₃)



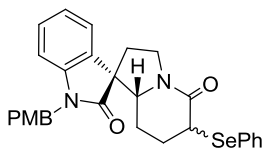
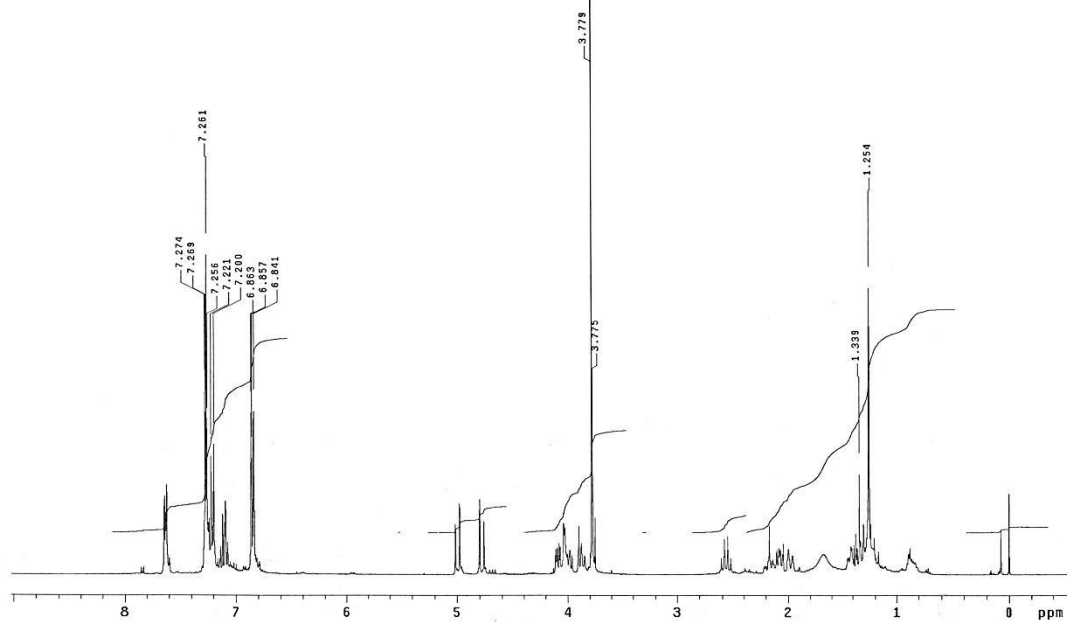
(100.6 MHz; CDCl₃)





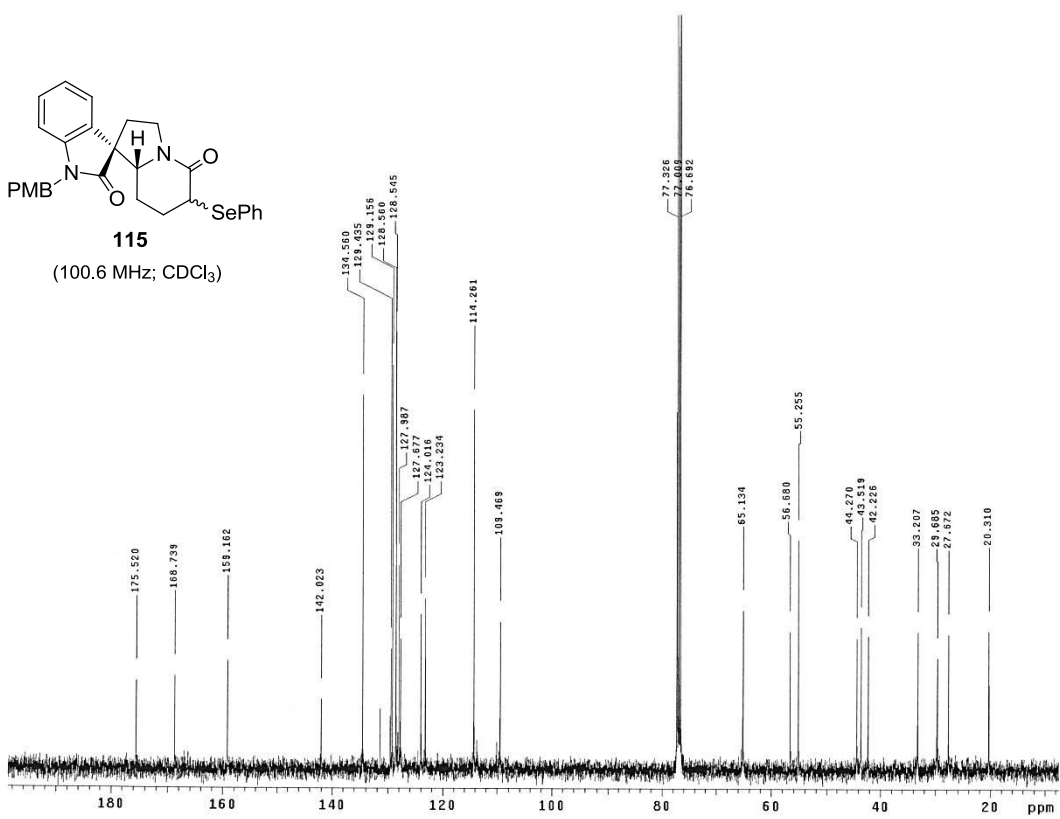
115

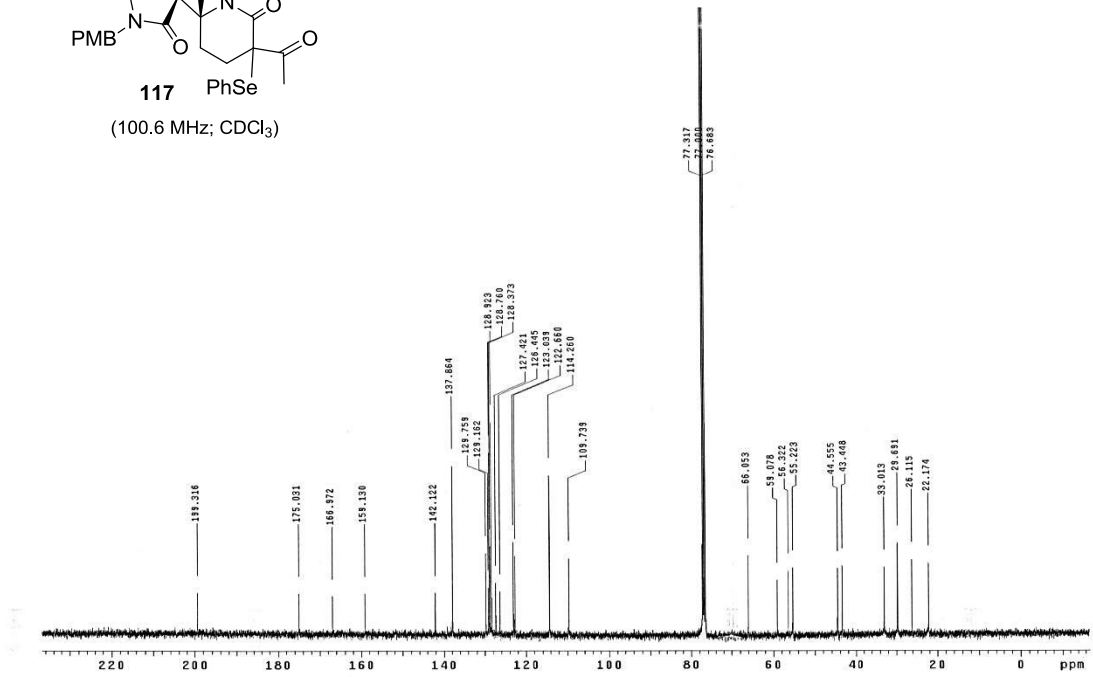
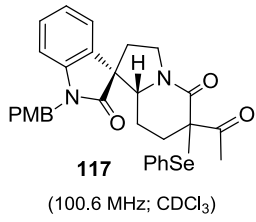
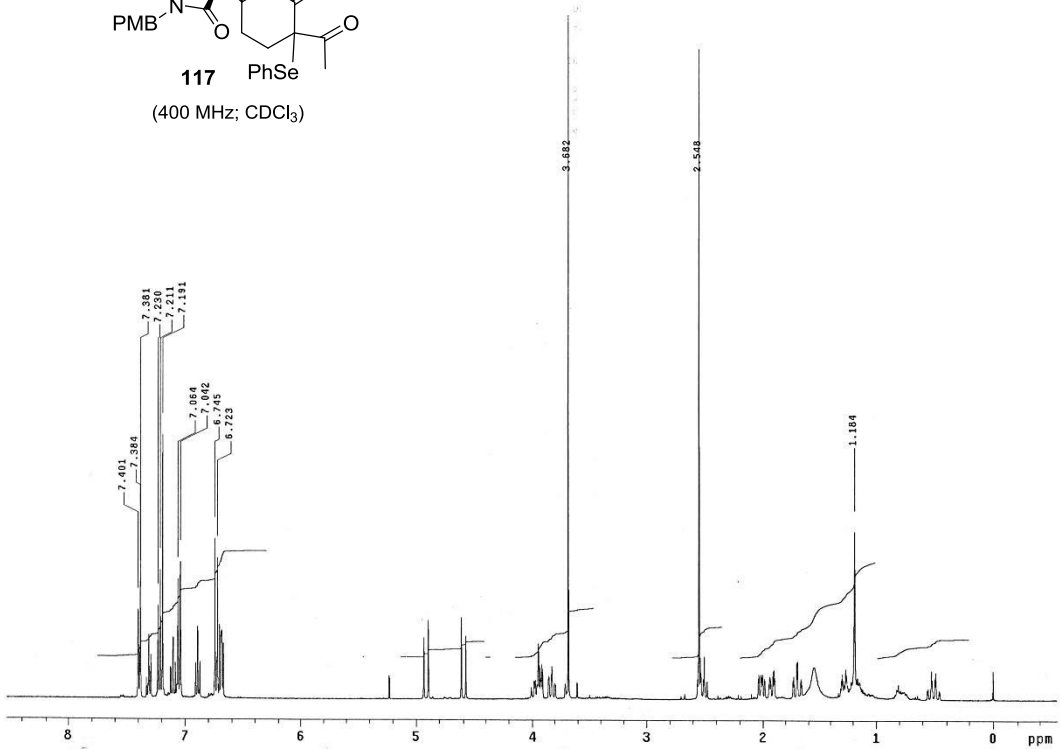
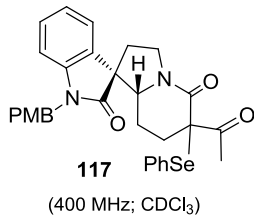
(400 MHz; CDCl₃)

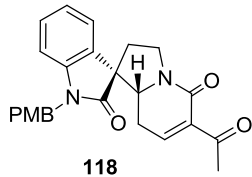


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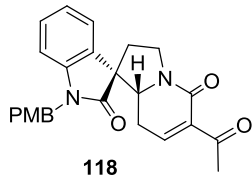
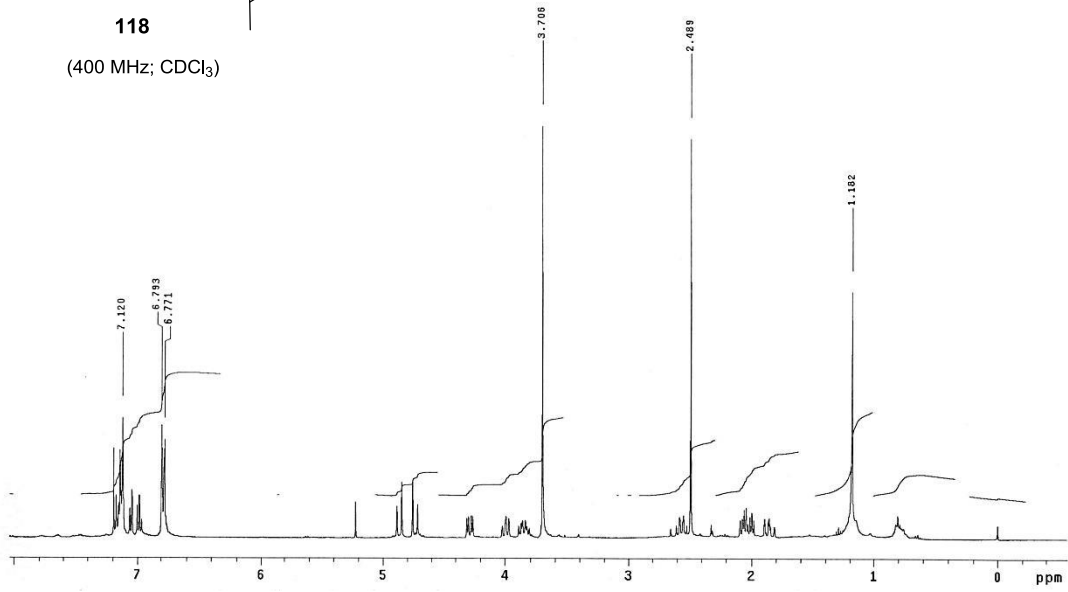
(100.6 MHz; CDCl₃)







(400 MHz; CDCl₃)



(100.6 MHz; CDCl₃)

