

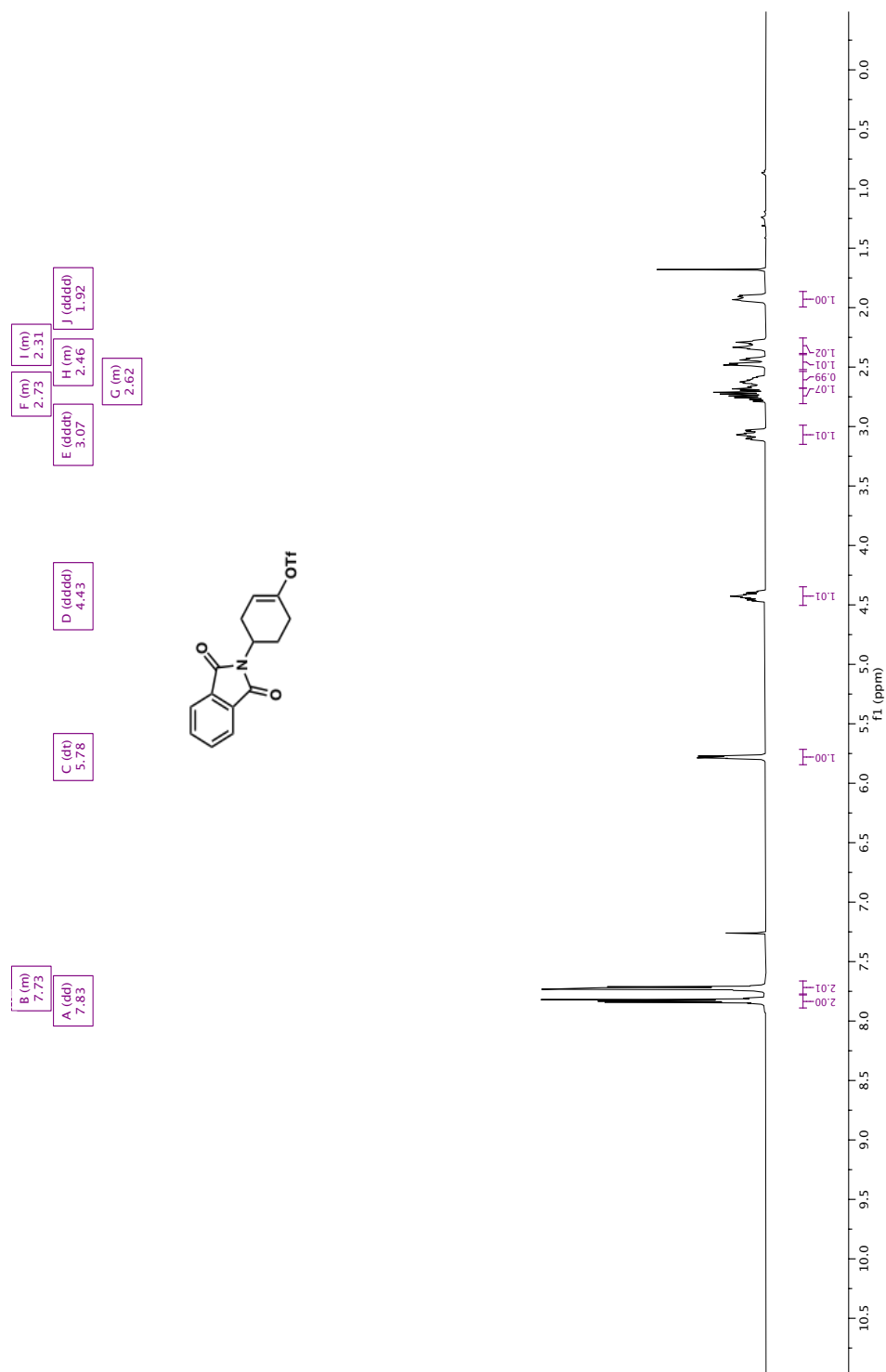
APPENDIX 1

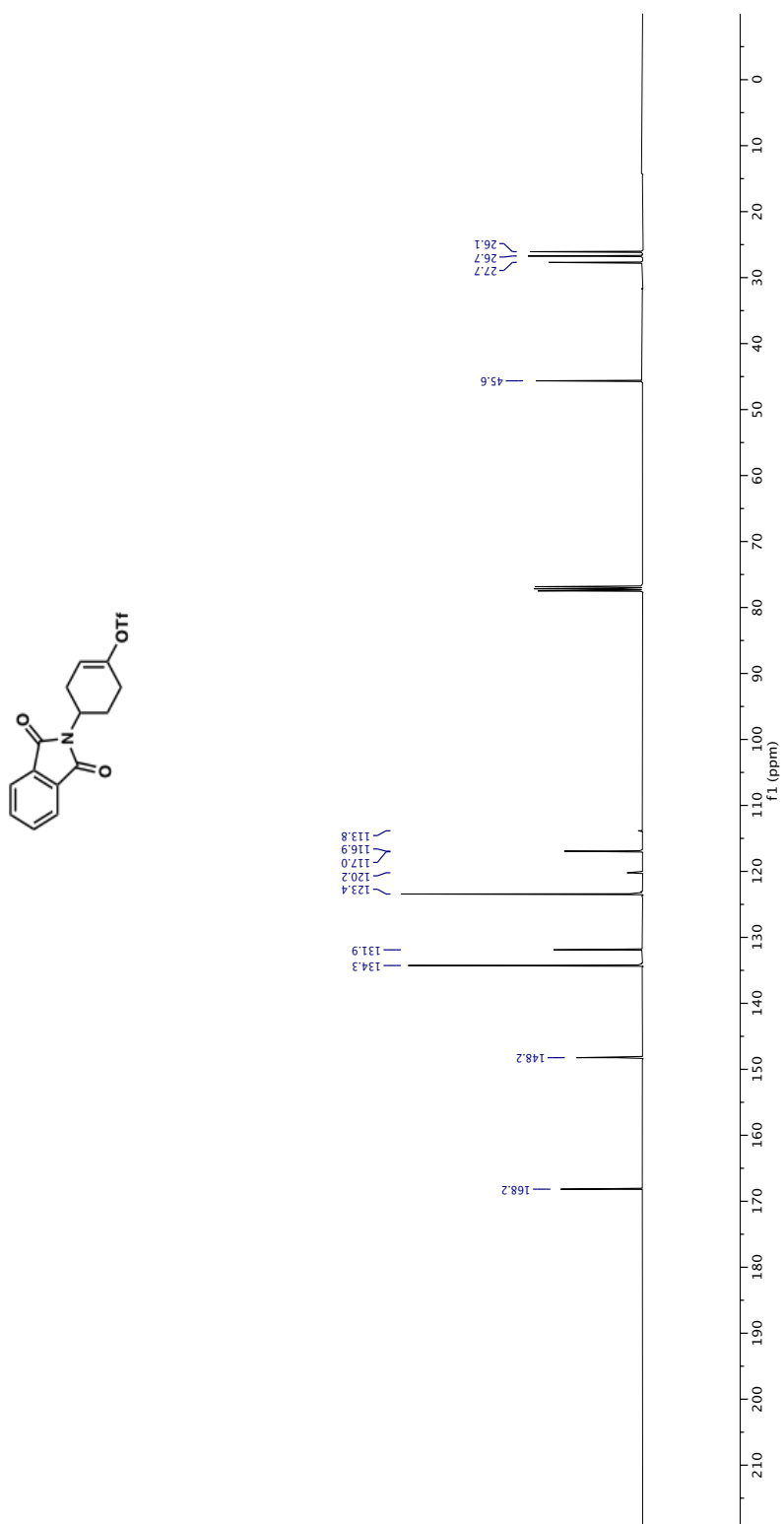
Spectra Relevant to Chapter 1:

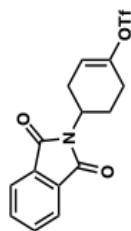
Development of a Ni-Catalyzed Enol Triflate-Halogen Exchange

Reaction [†]

^{†1} Portions of this report were reproduced from a published study and the supporting information therein. The research presented in this chapter was completed in collaboration with Dr. Kelsey Poremba and Dr. Julie Hoftstra, former graduate students in the Reisman Group.

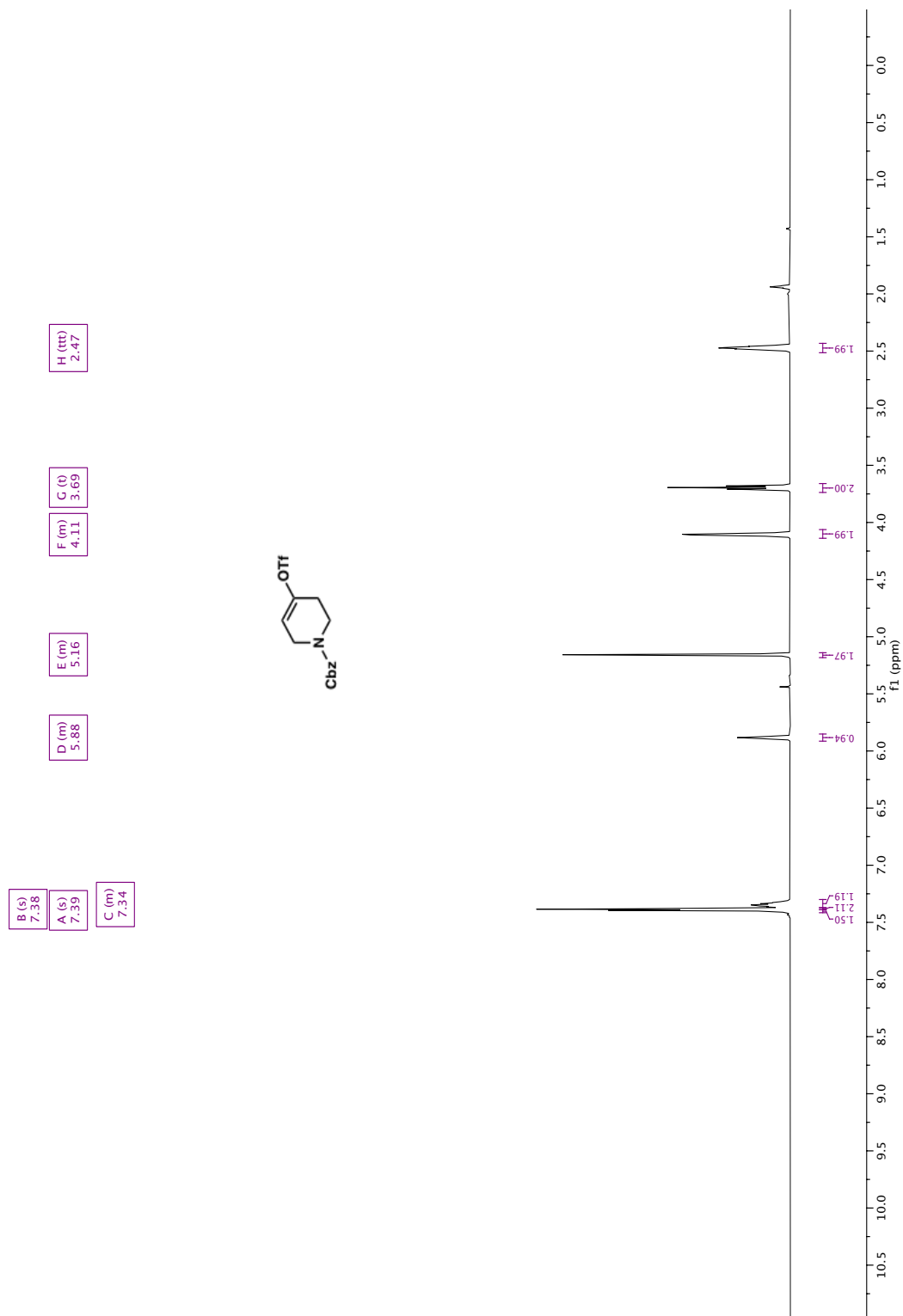


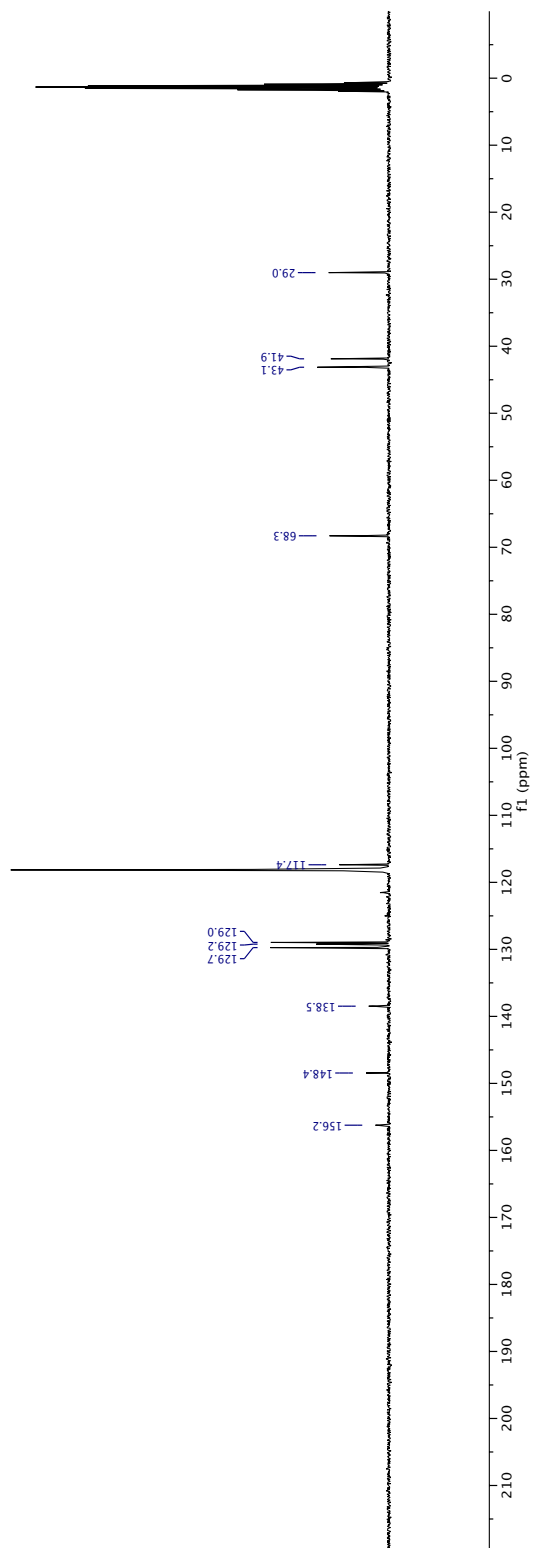
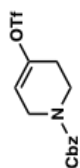


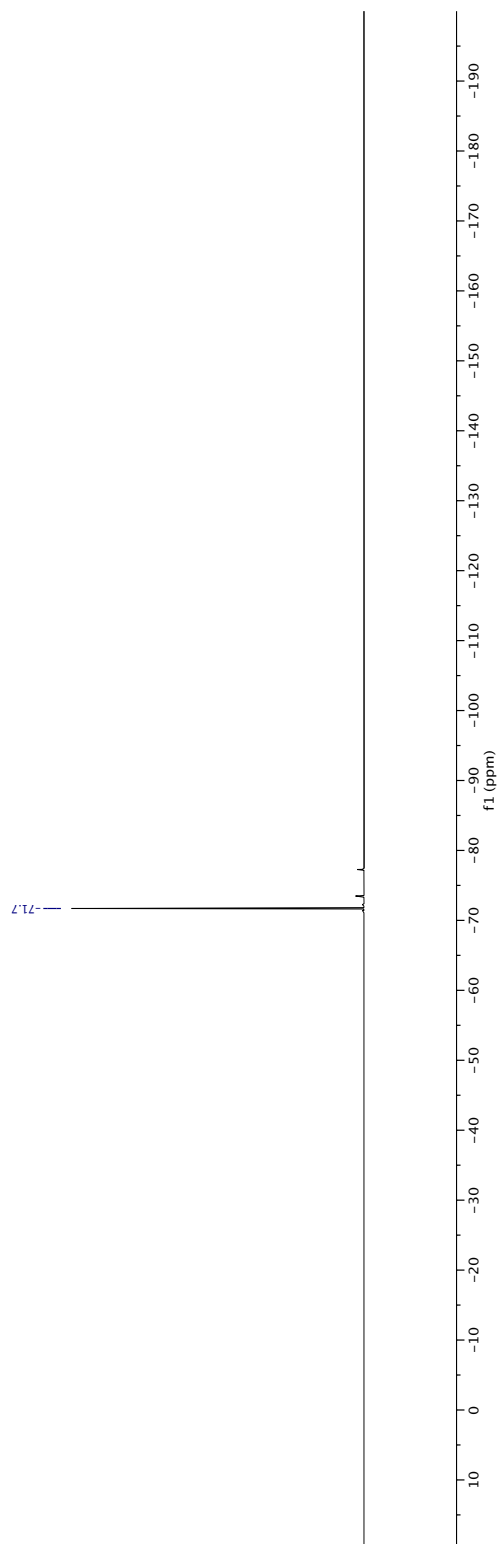
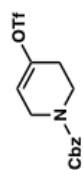


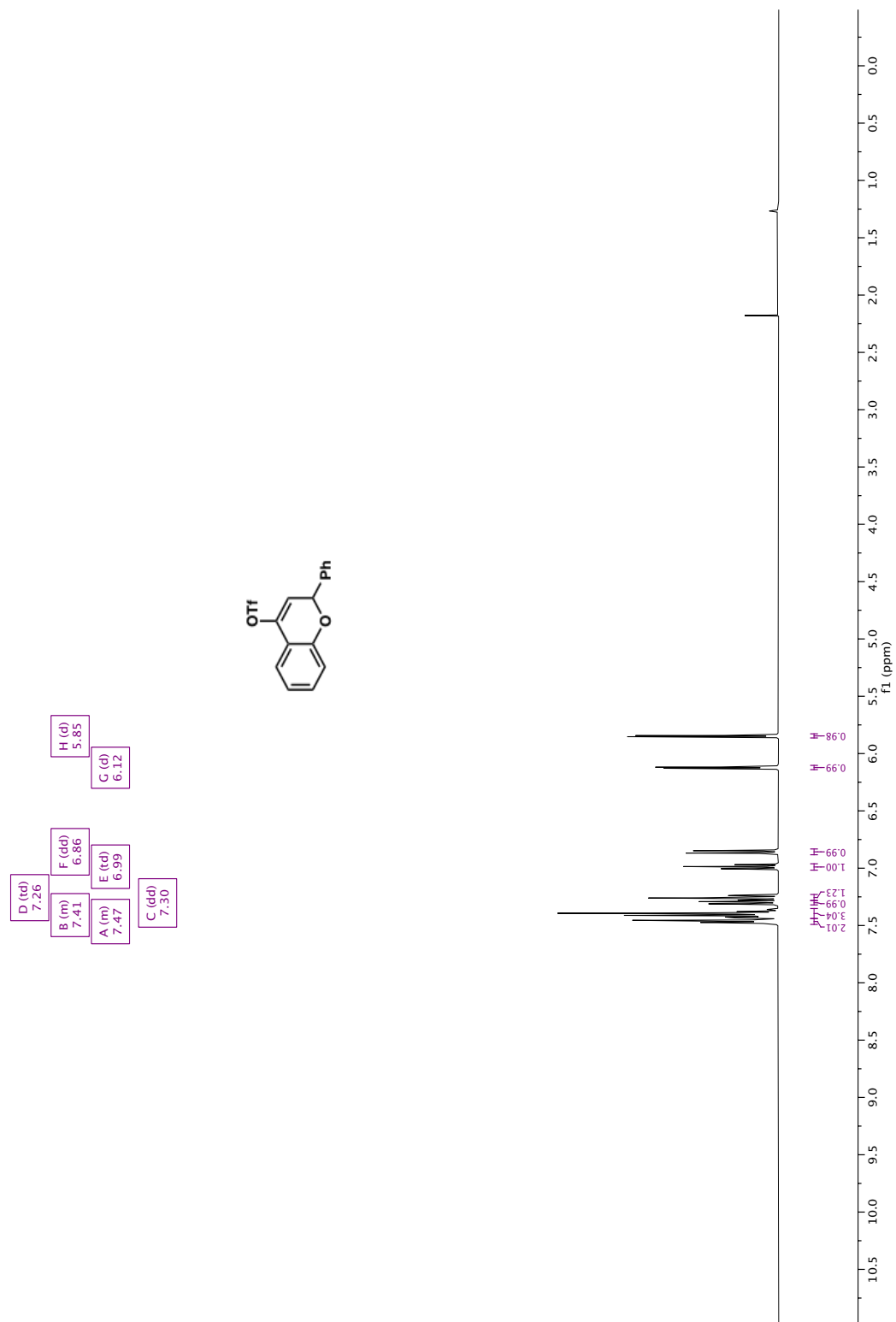
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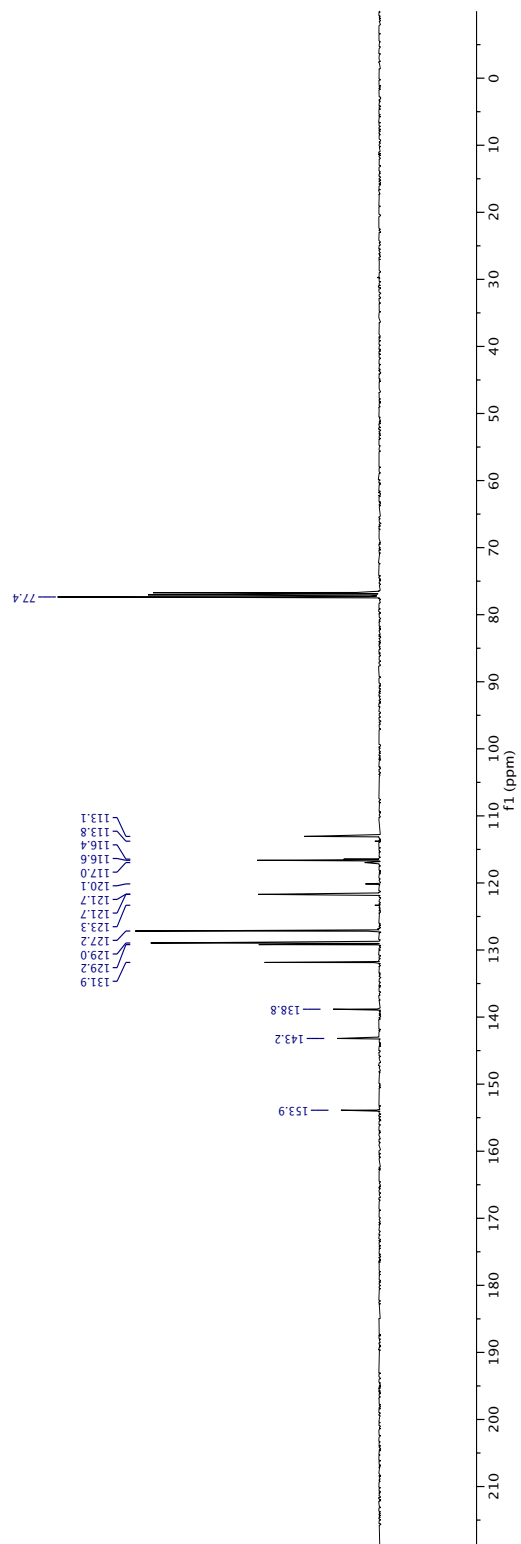
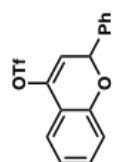
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f1 (ppm)

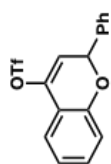






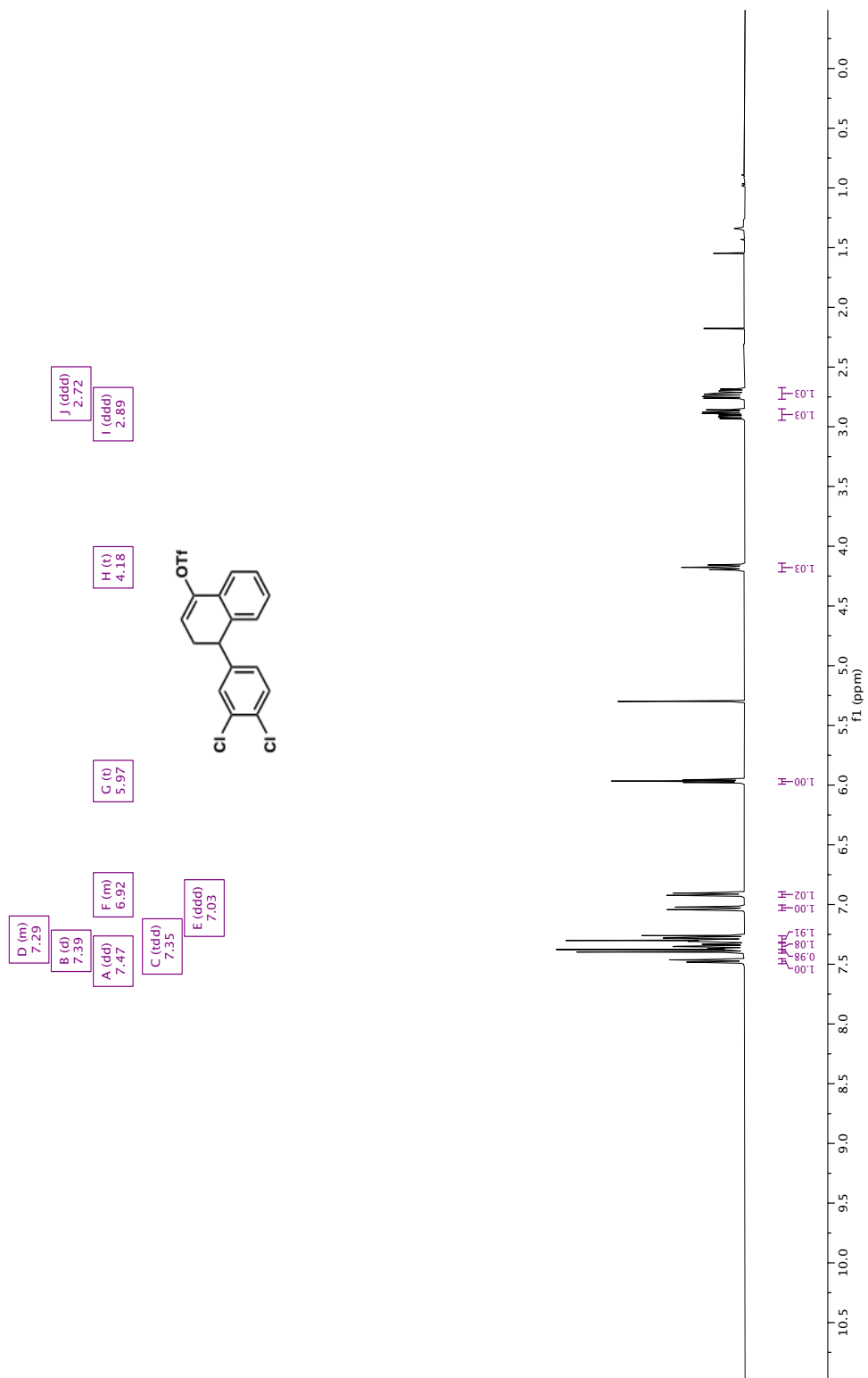


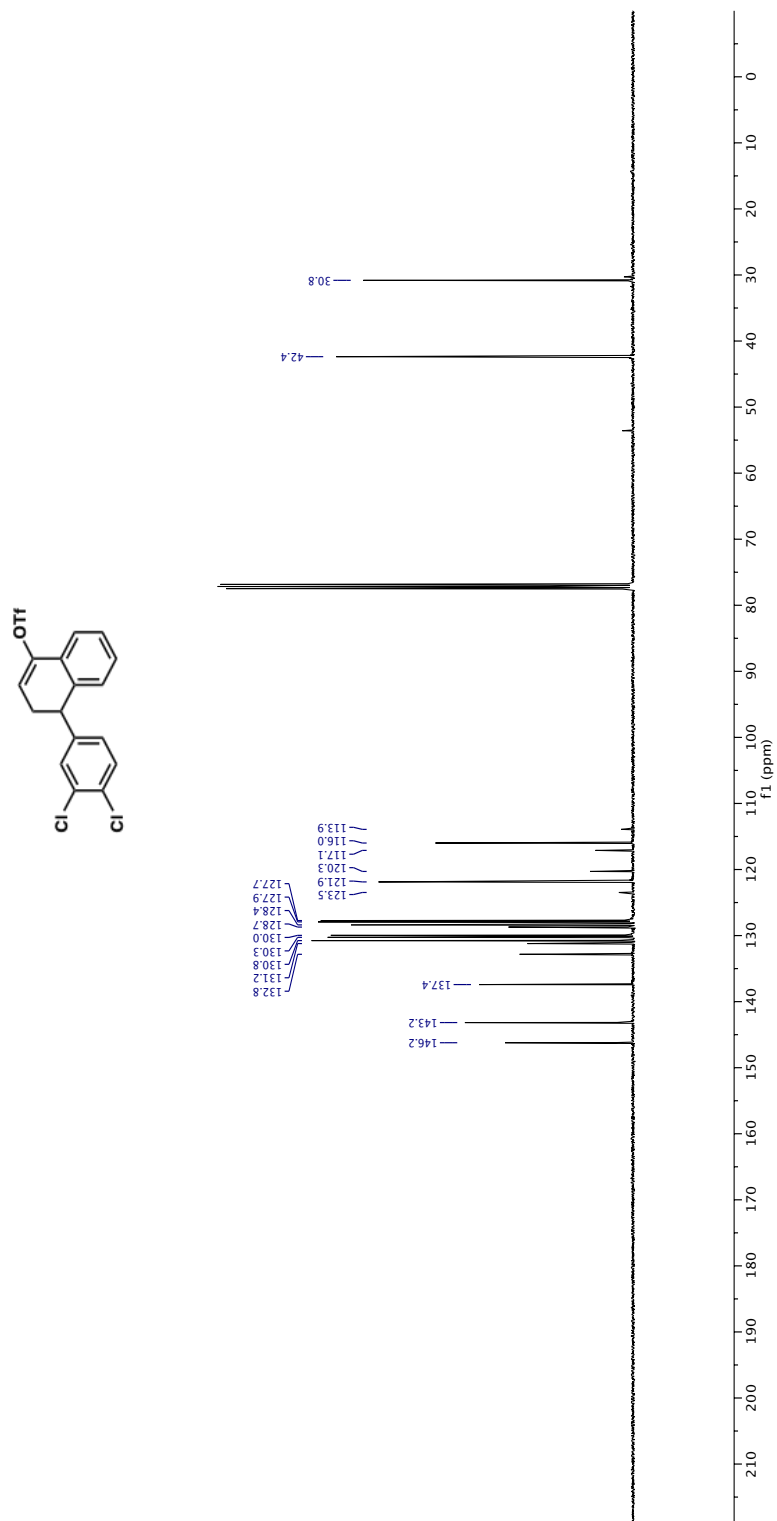


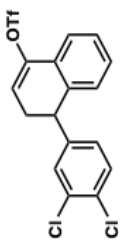


-73.4

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f1 (ppm)

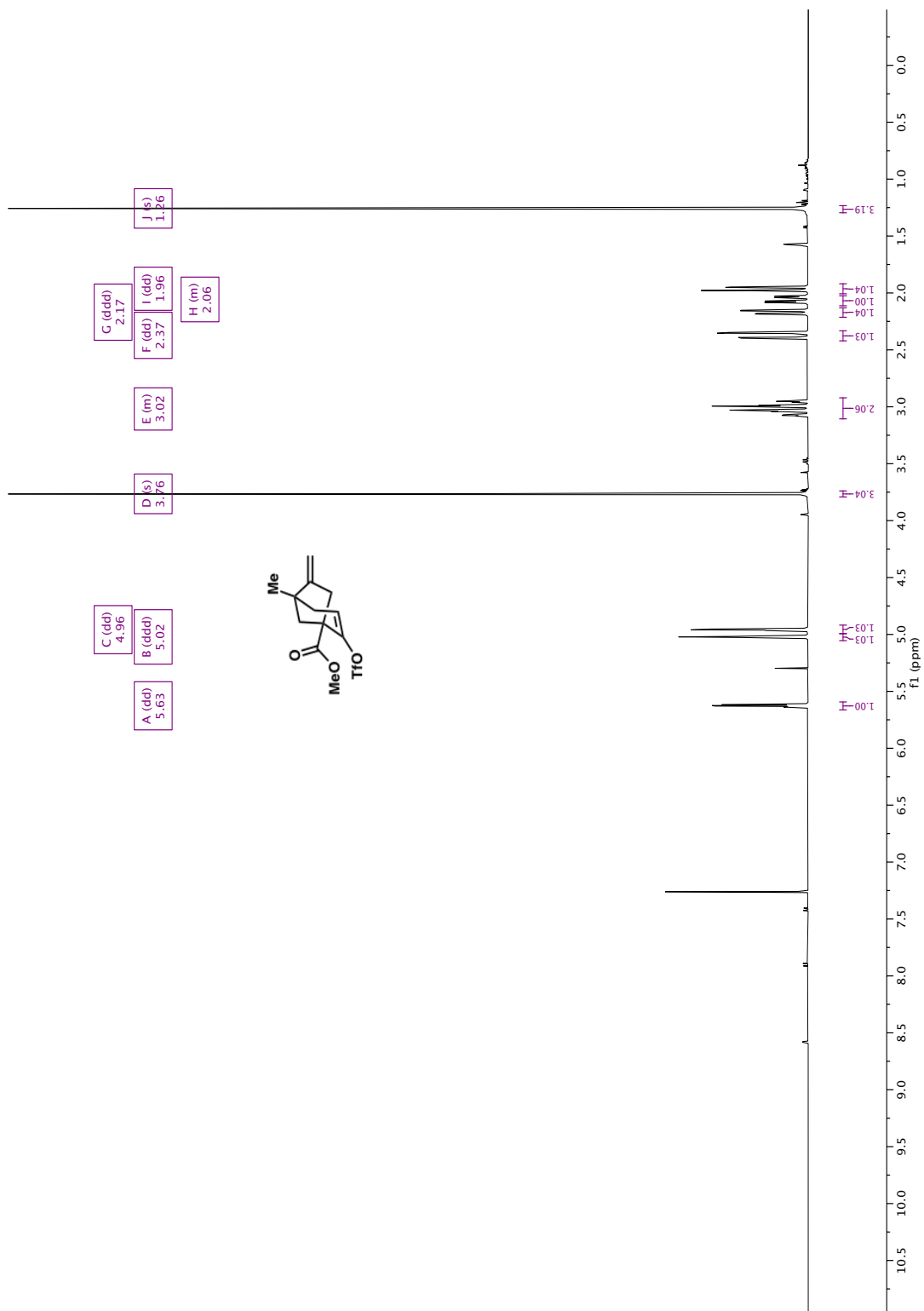


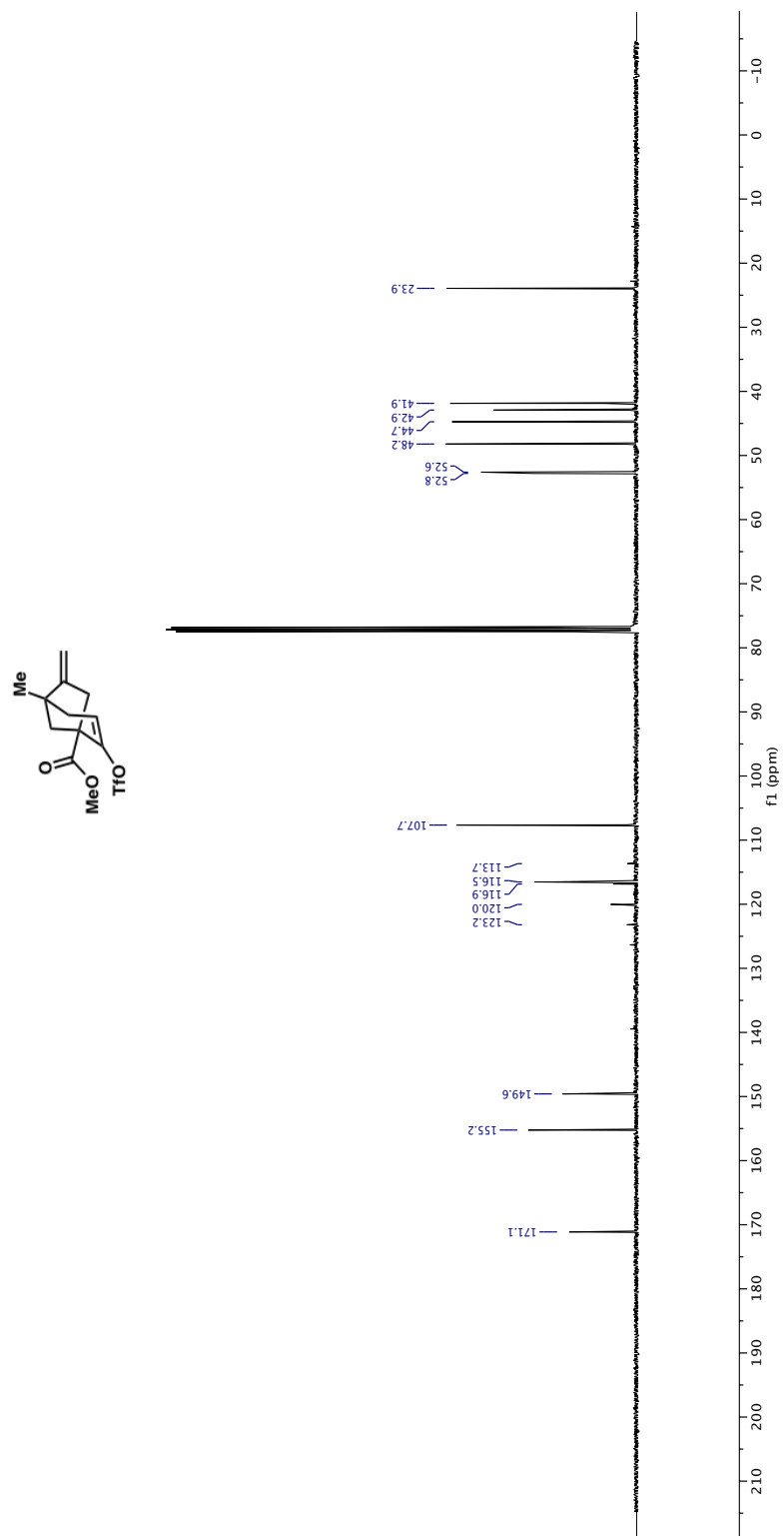


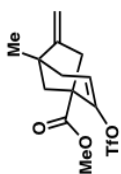


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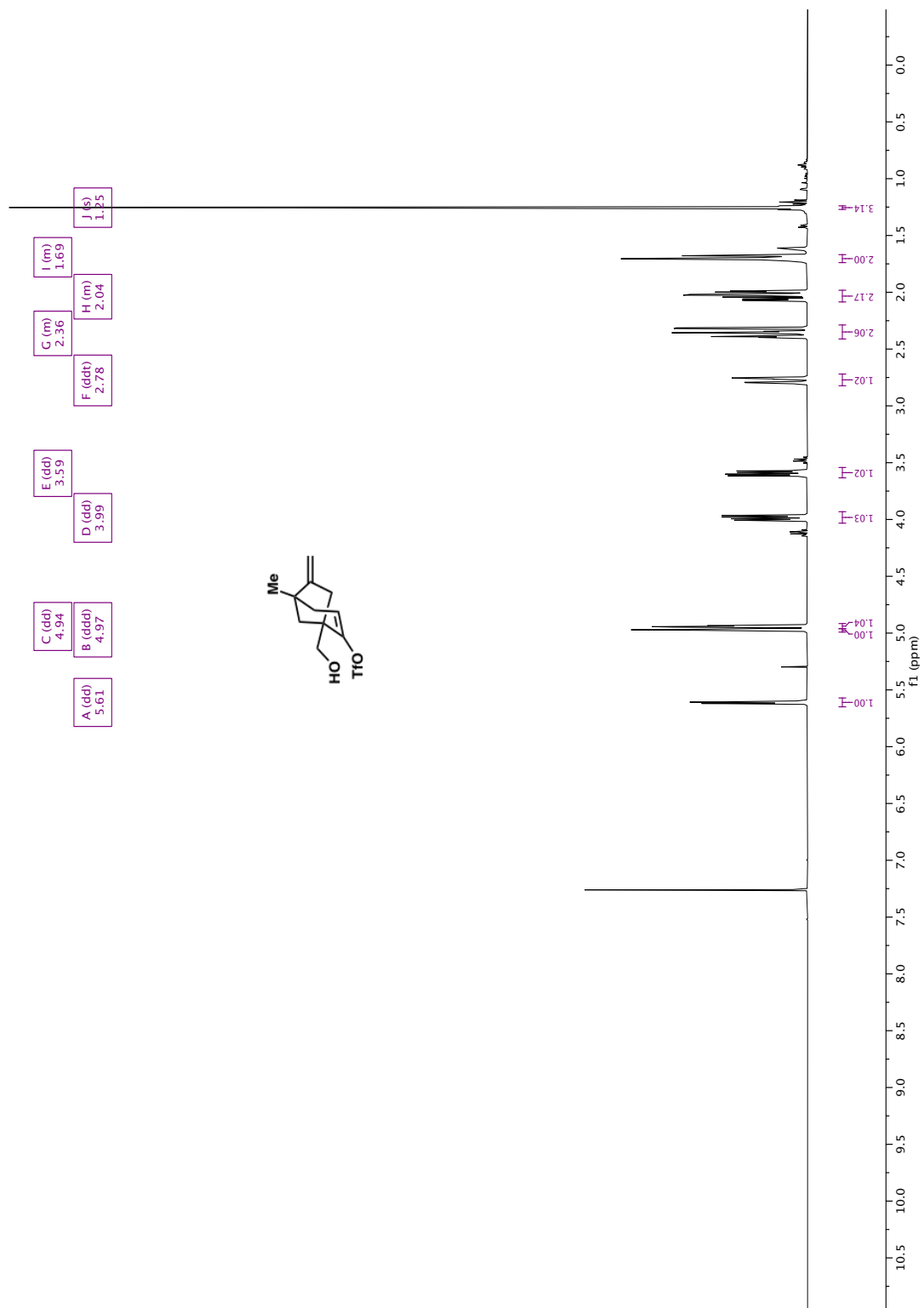


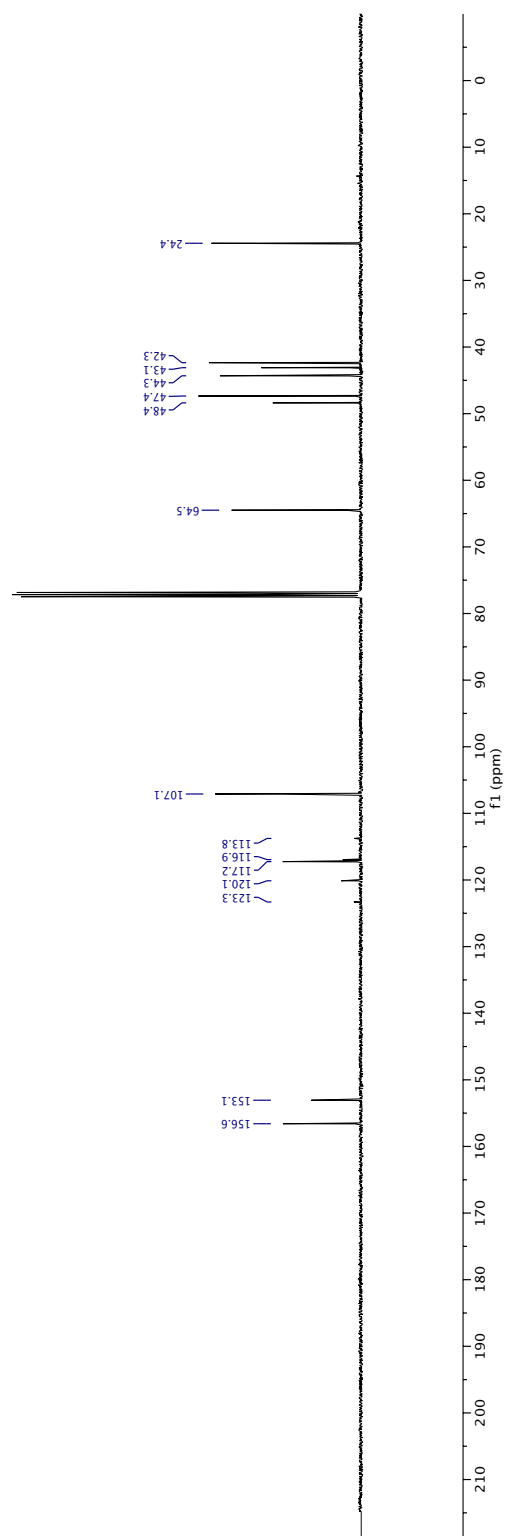
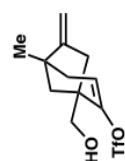


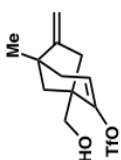


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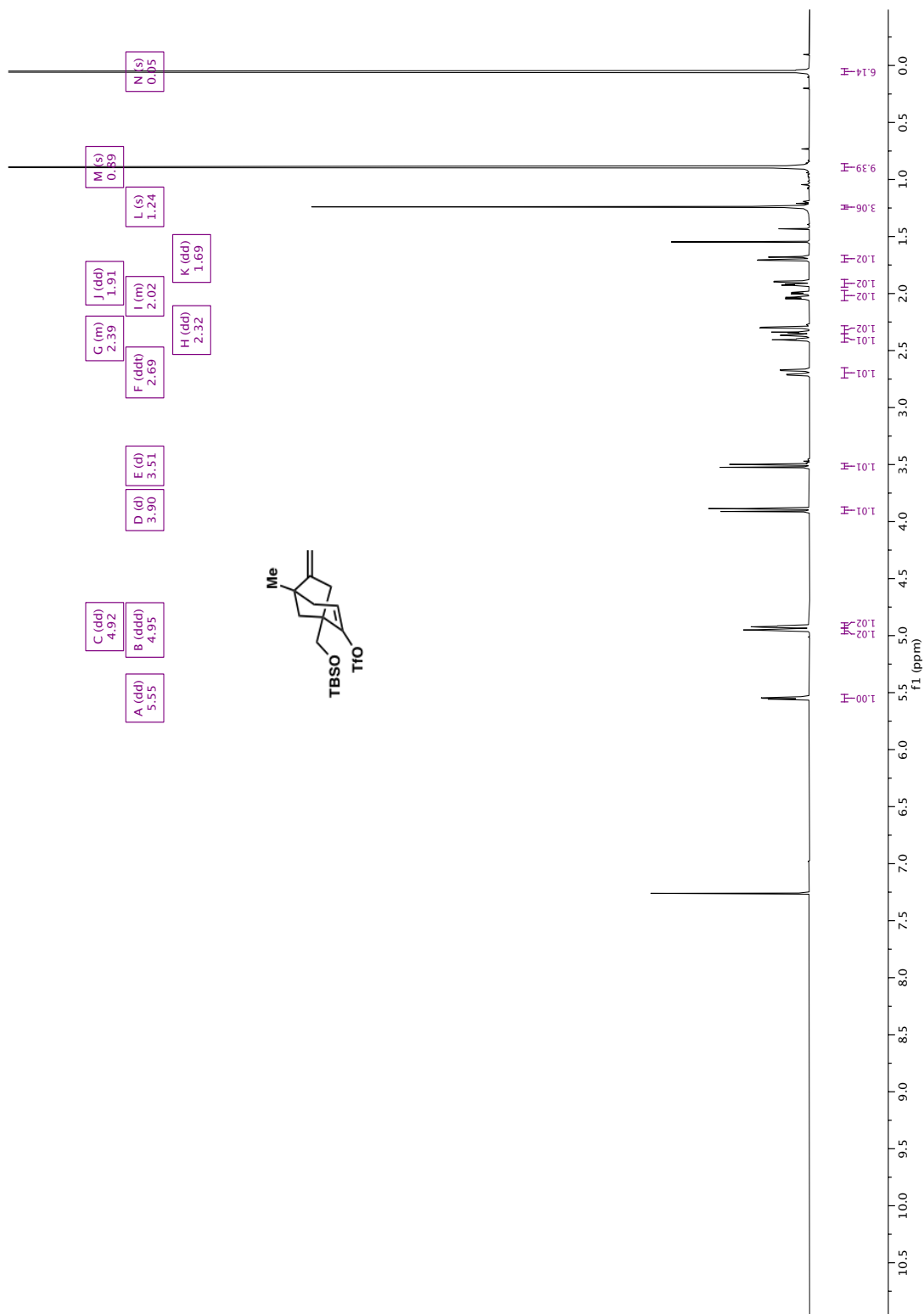


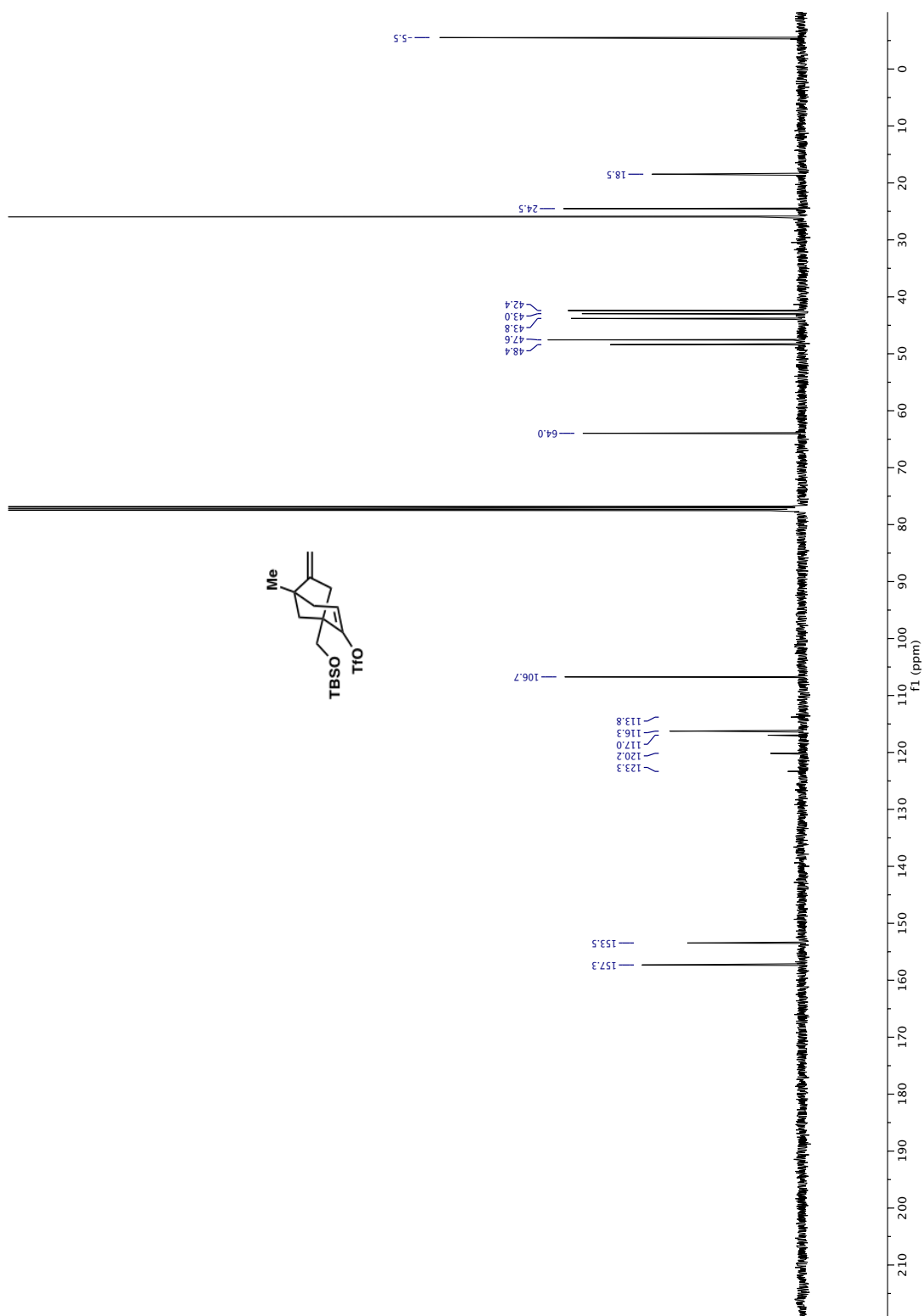


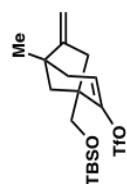
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-170
-180
-190

f1 (ppm)



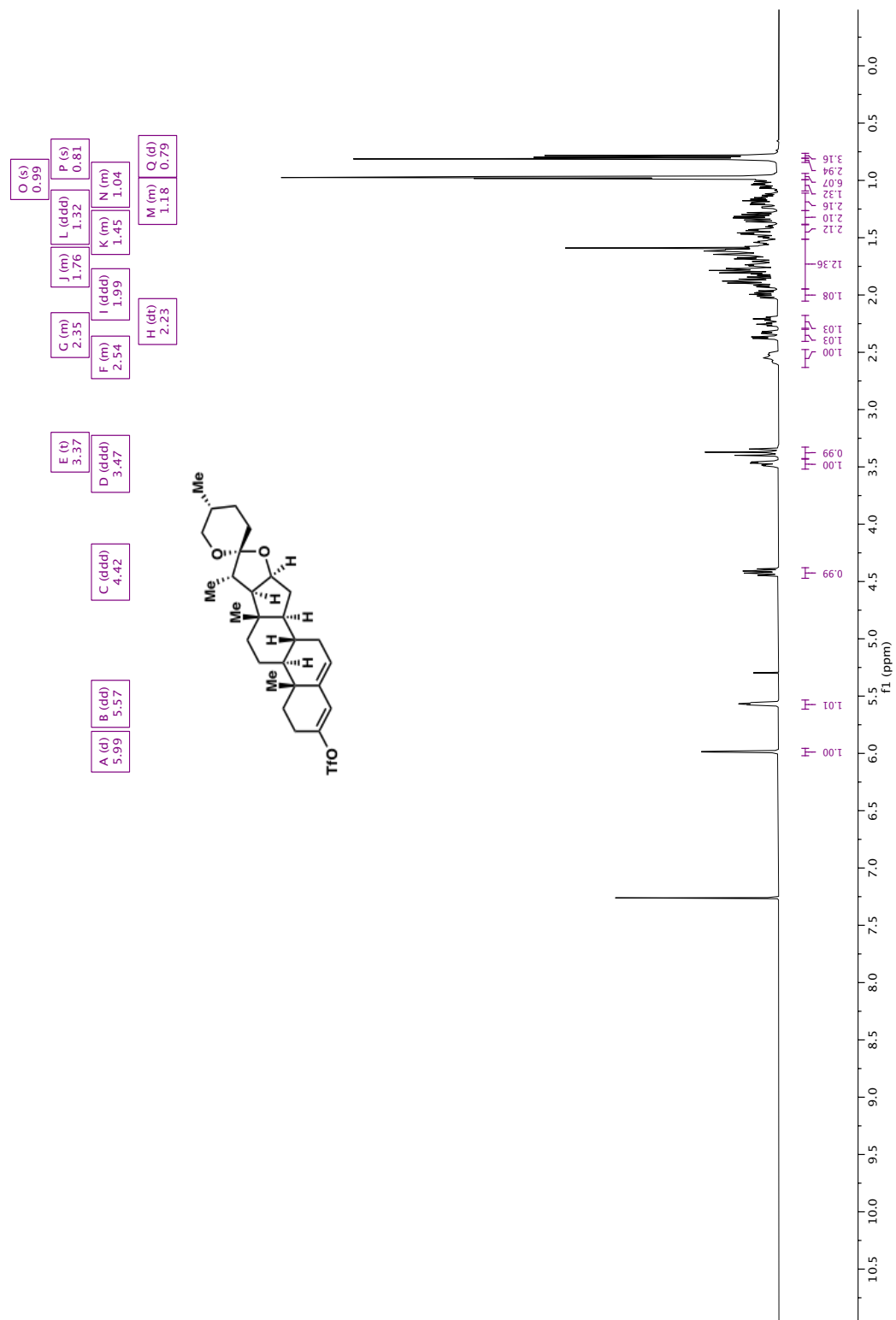


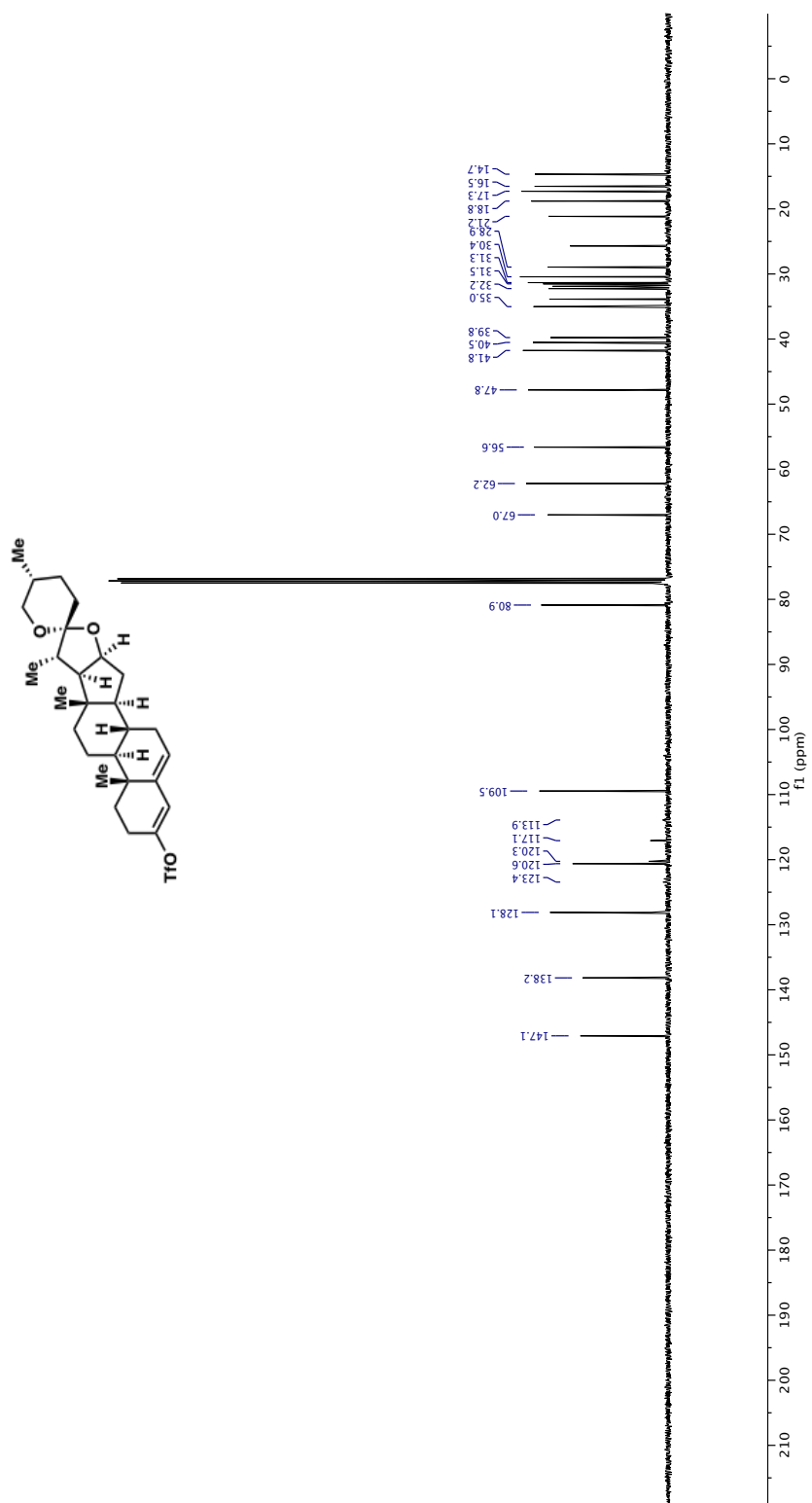


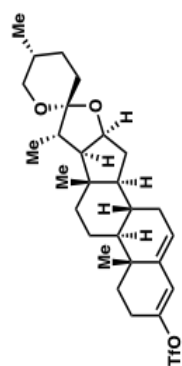
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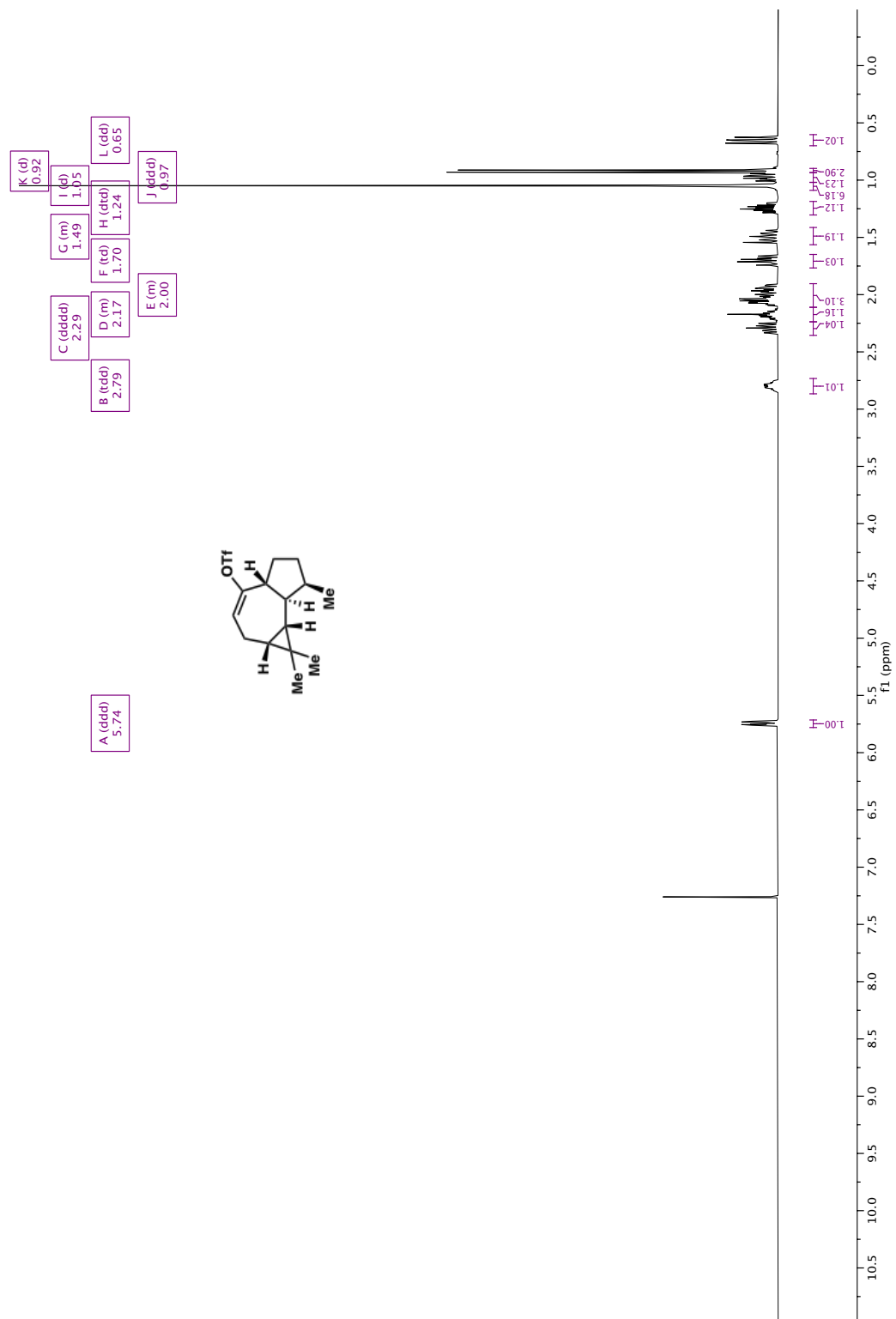


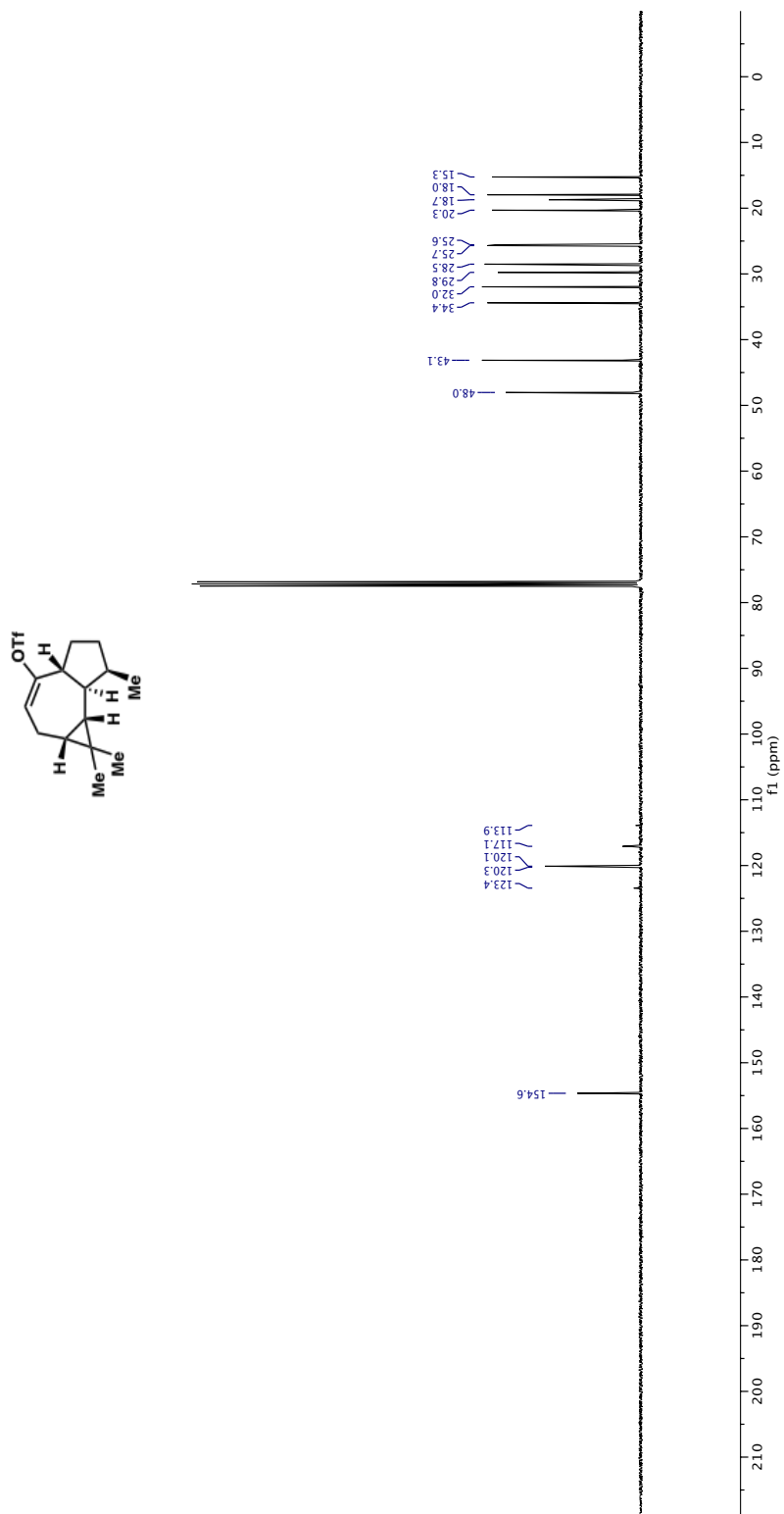


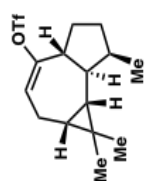


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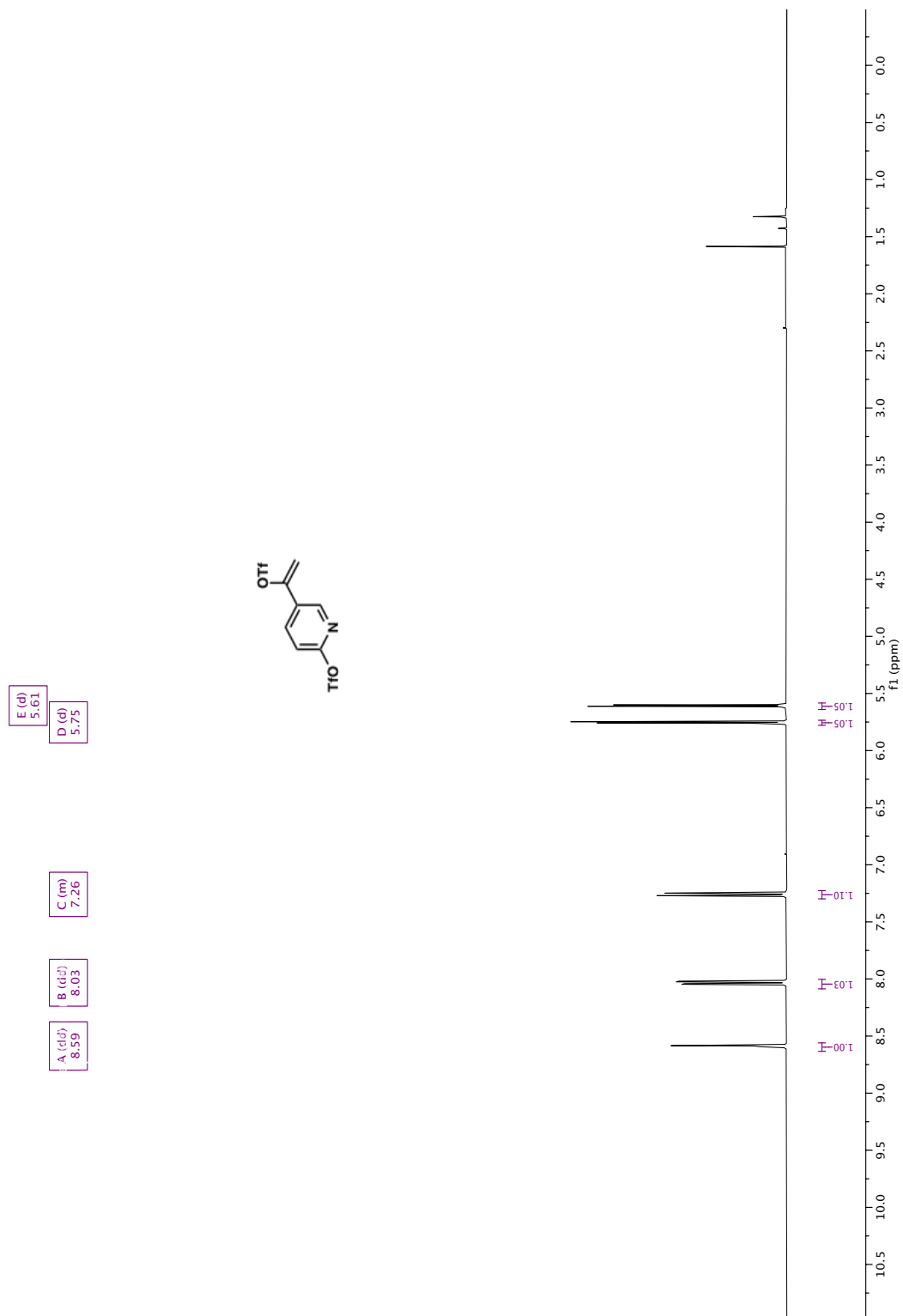


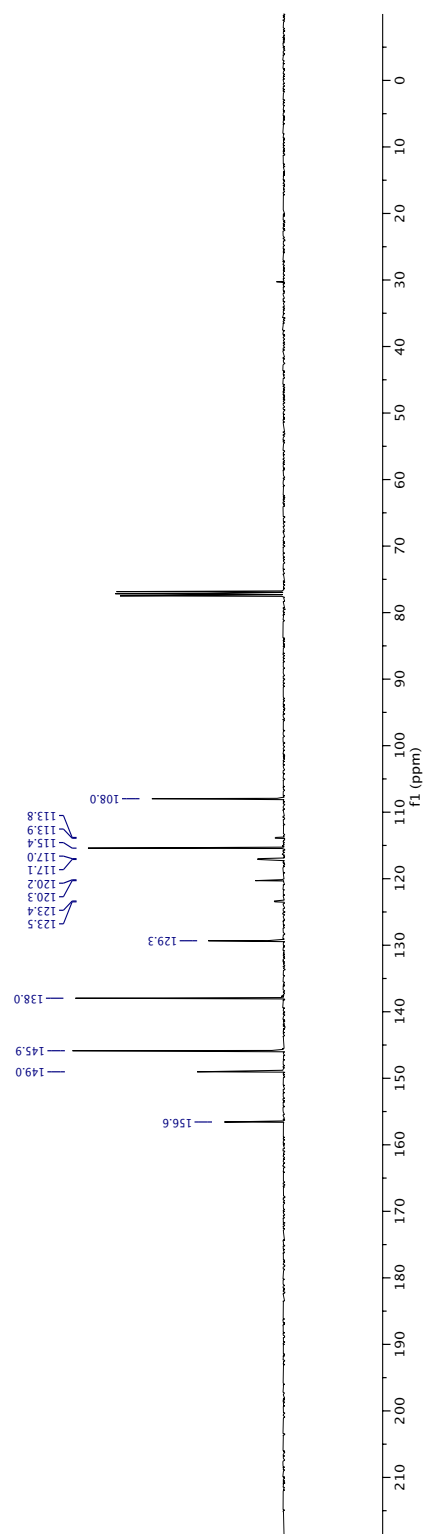
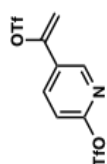


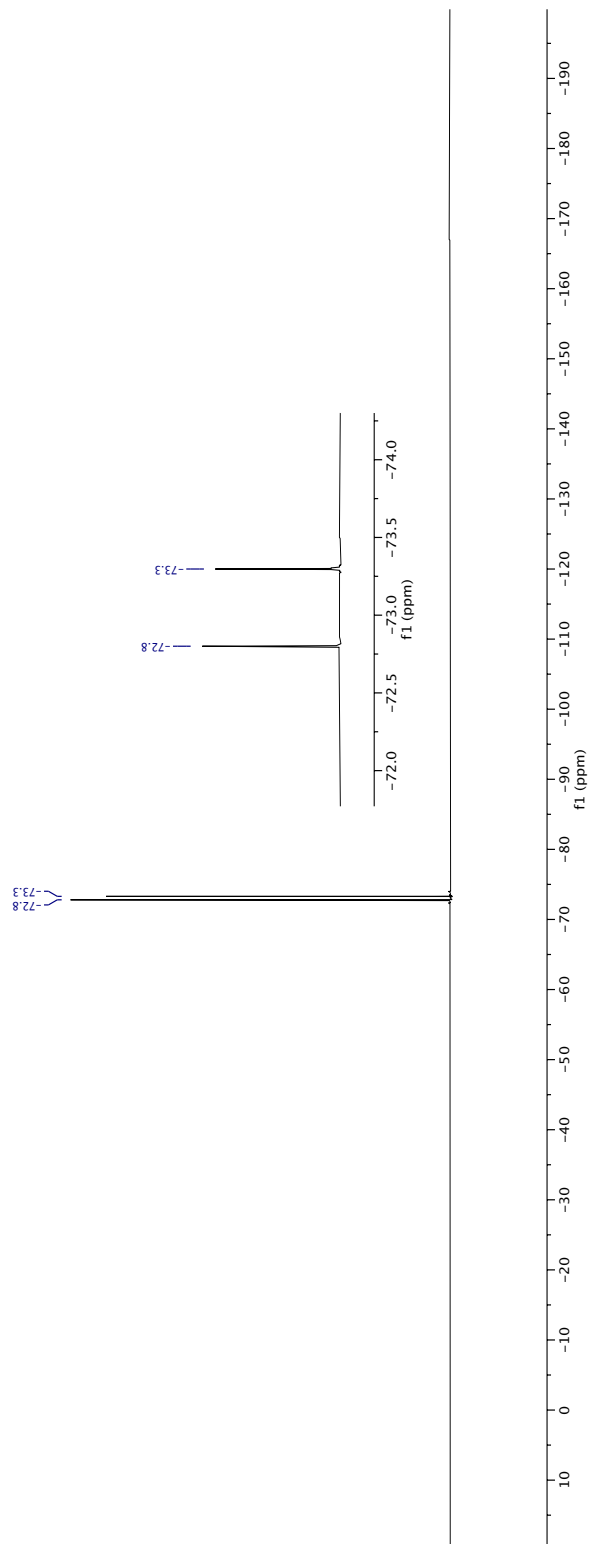
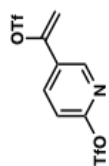
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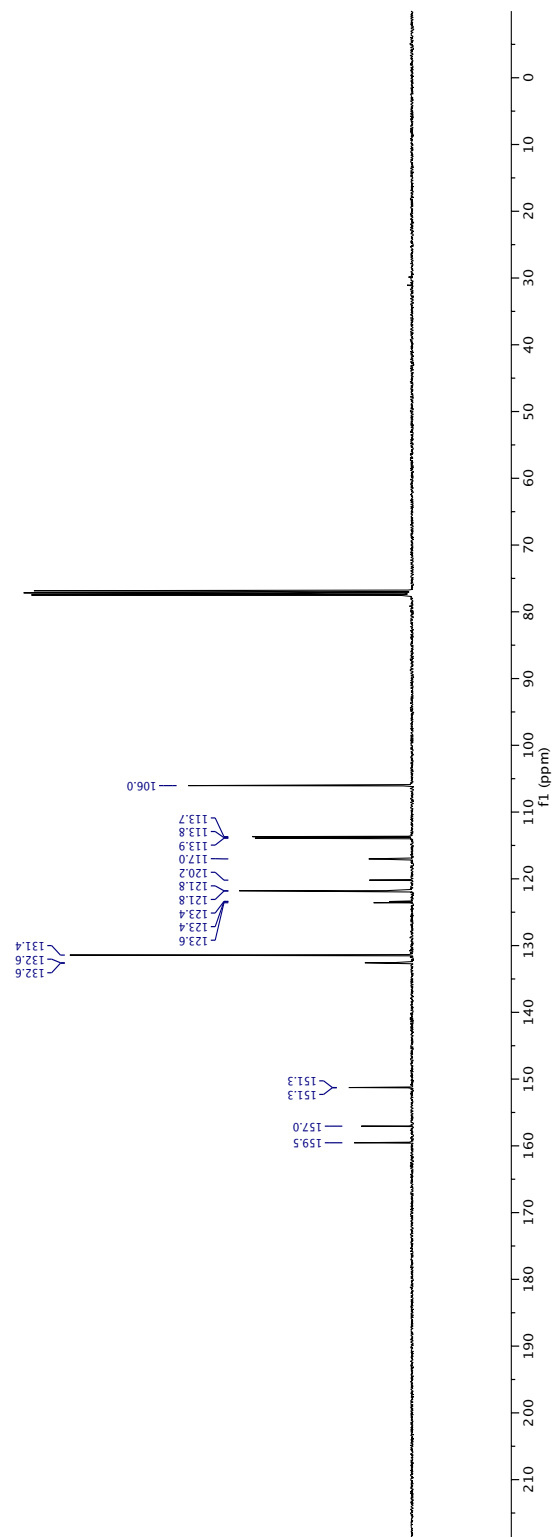
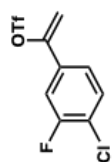
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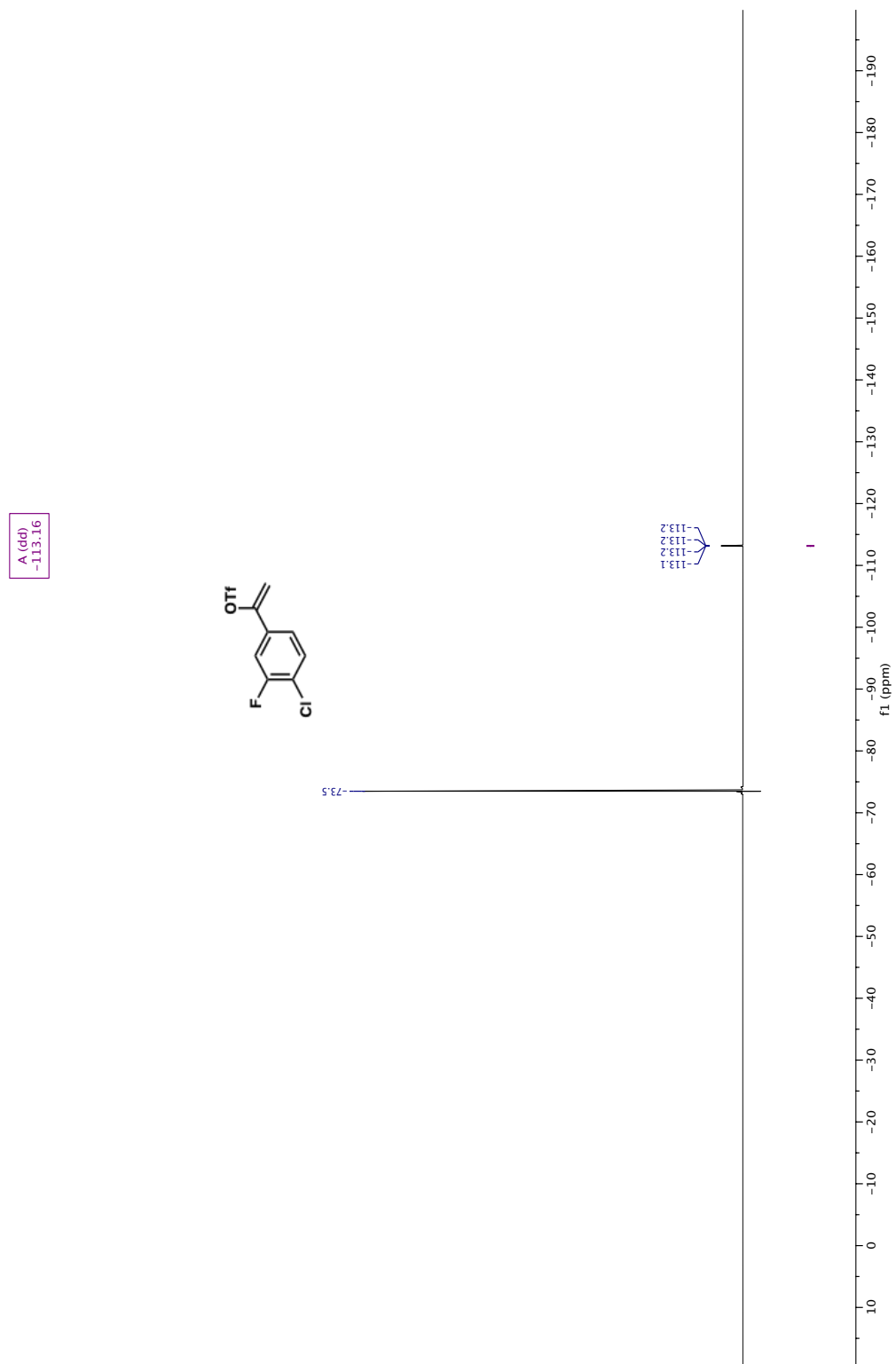


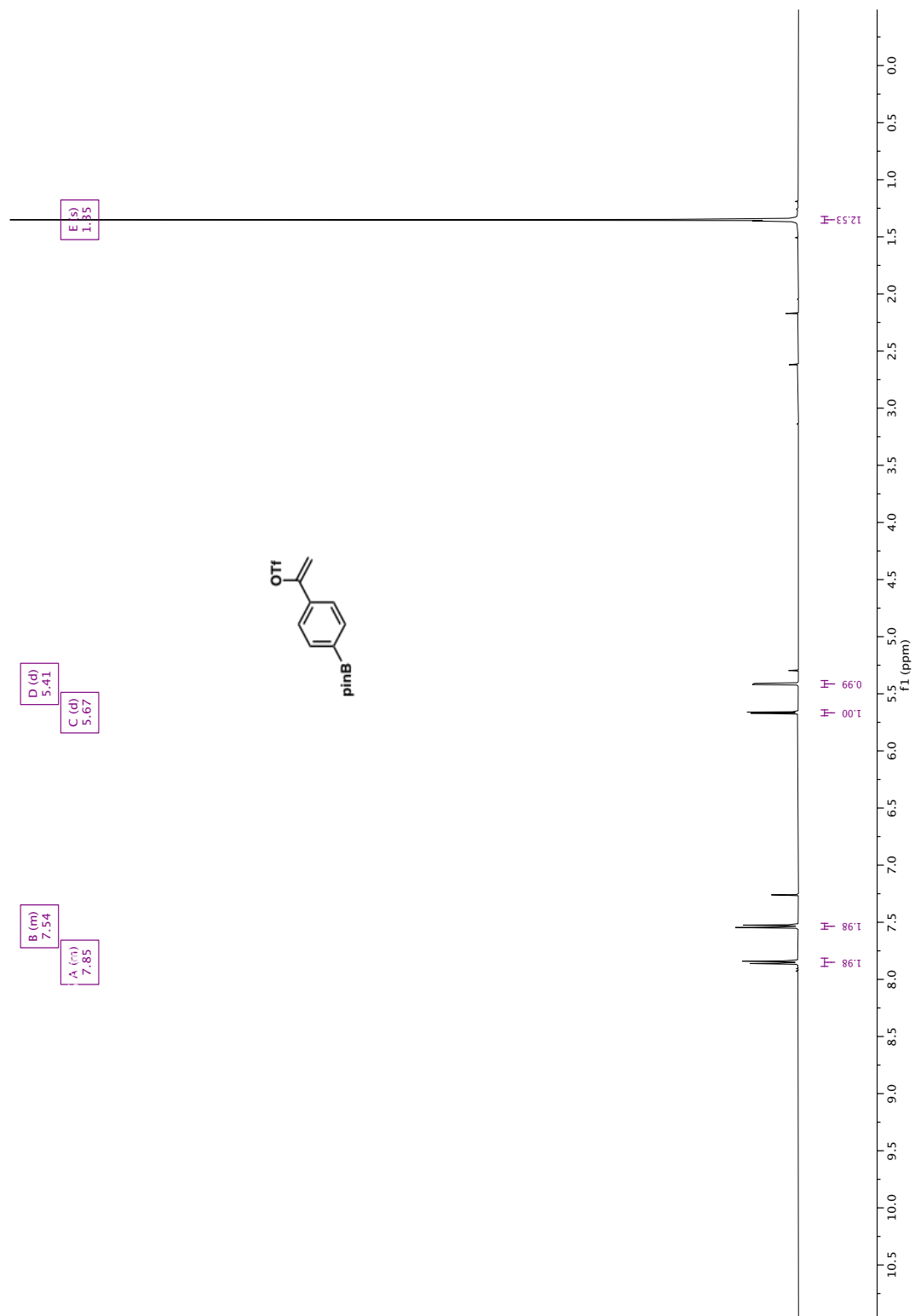


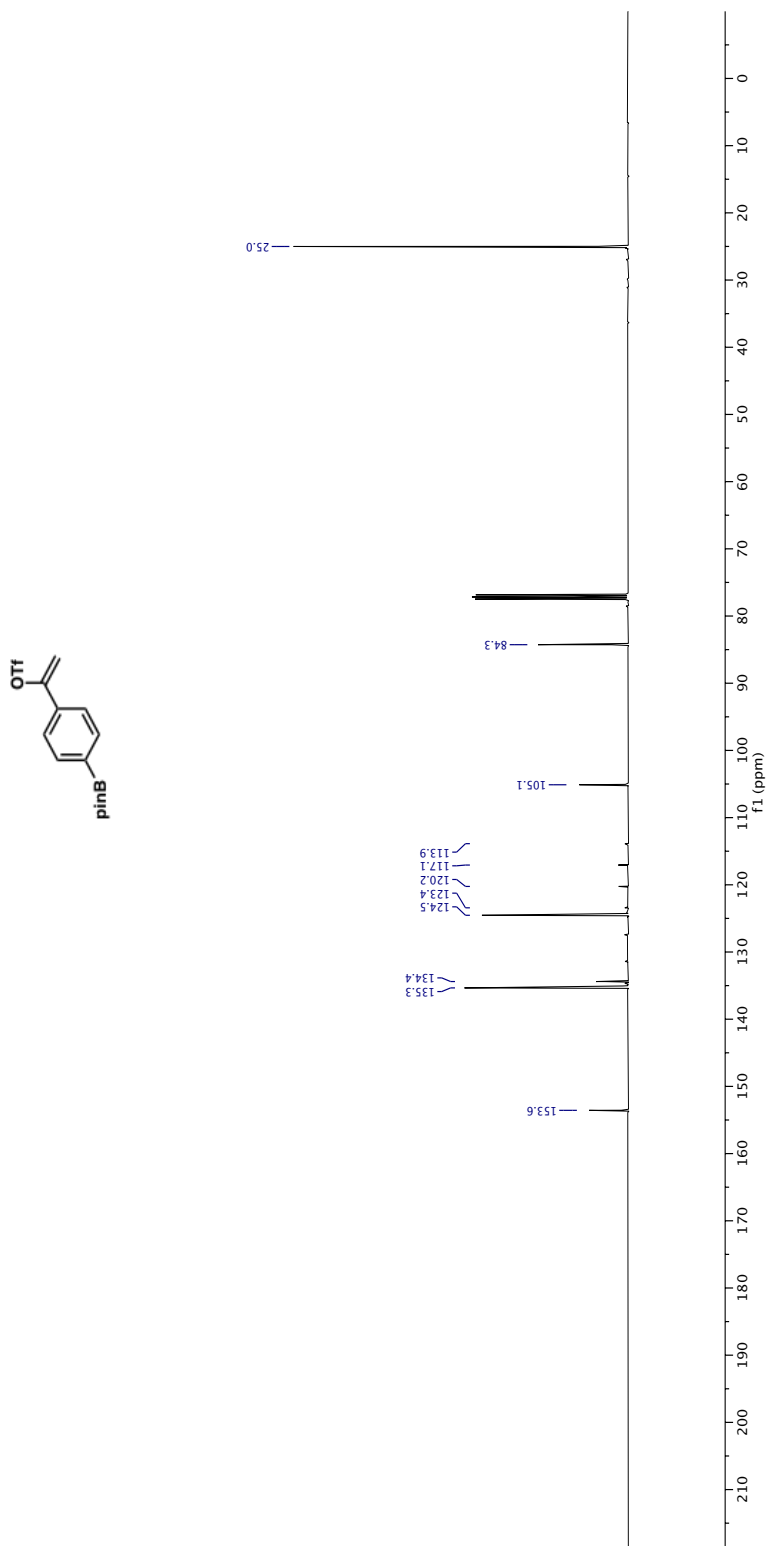


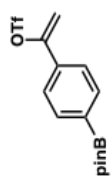






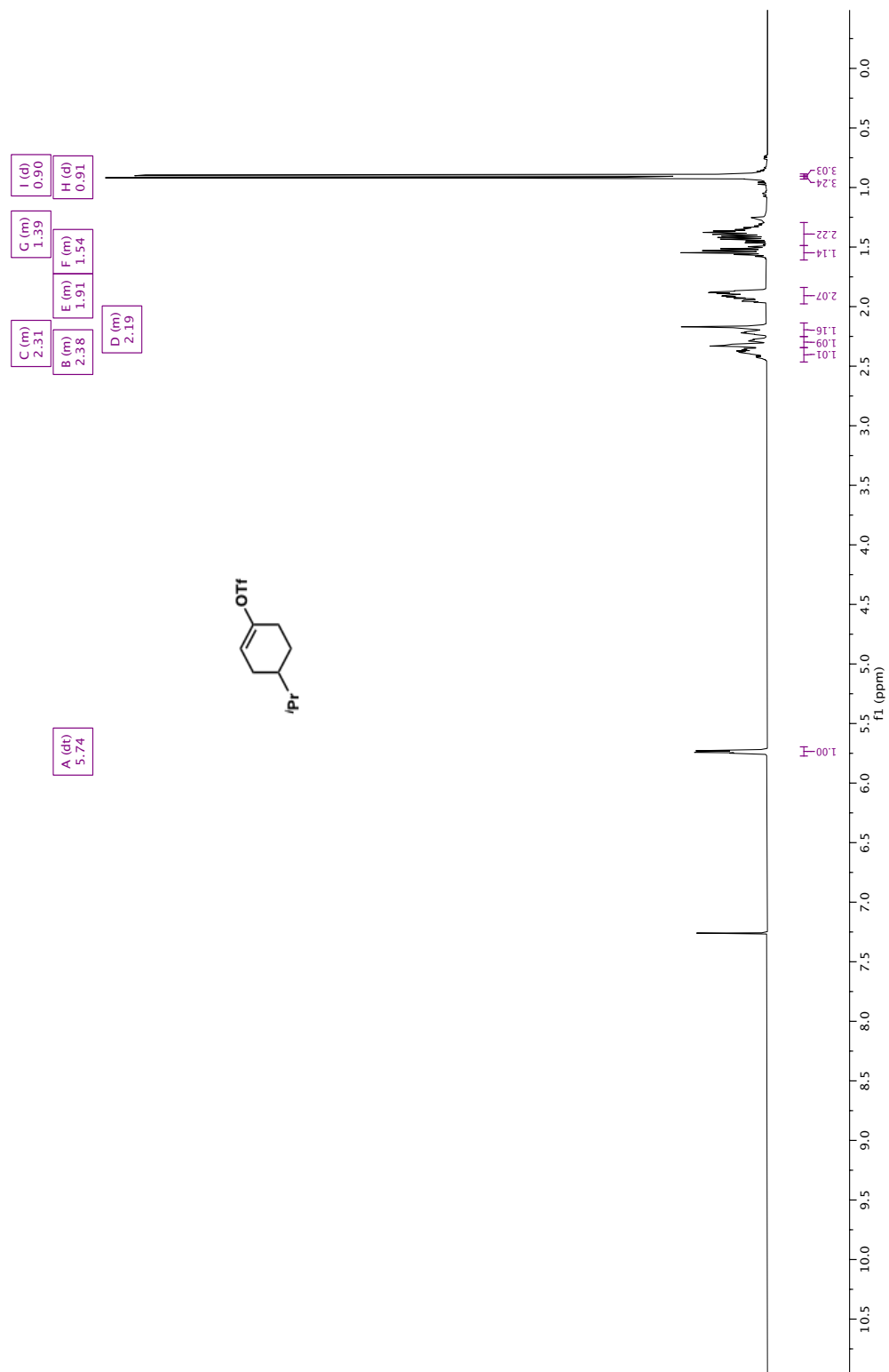


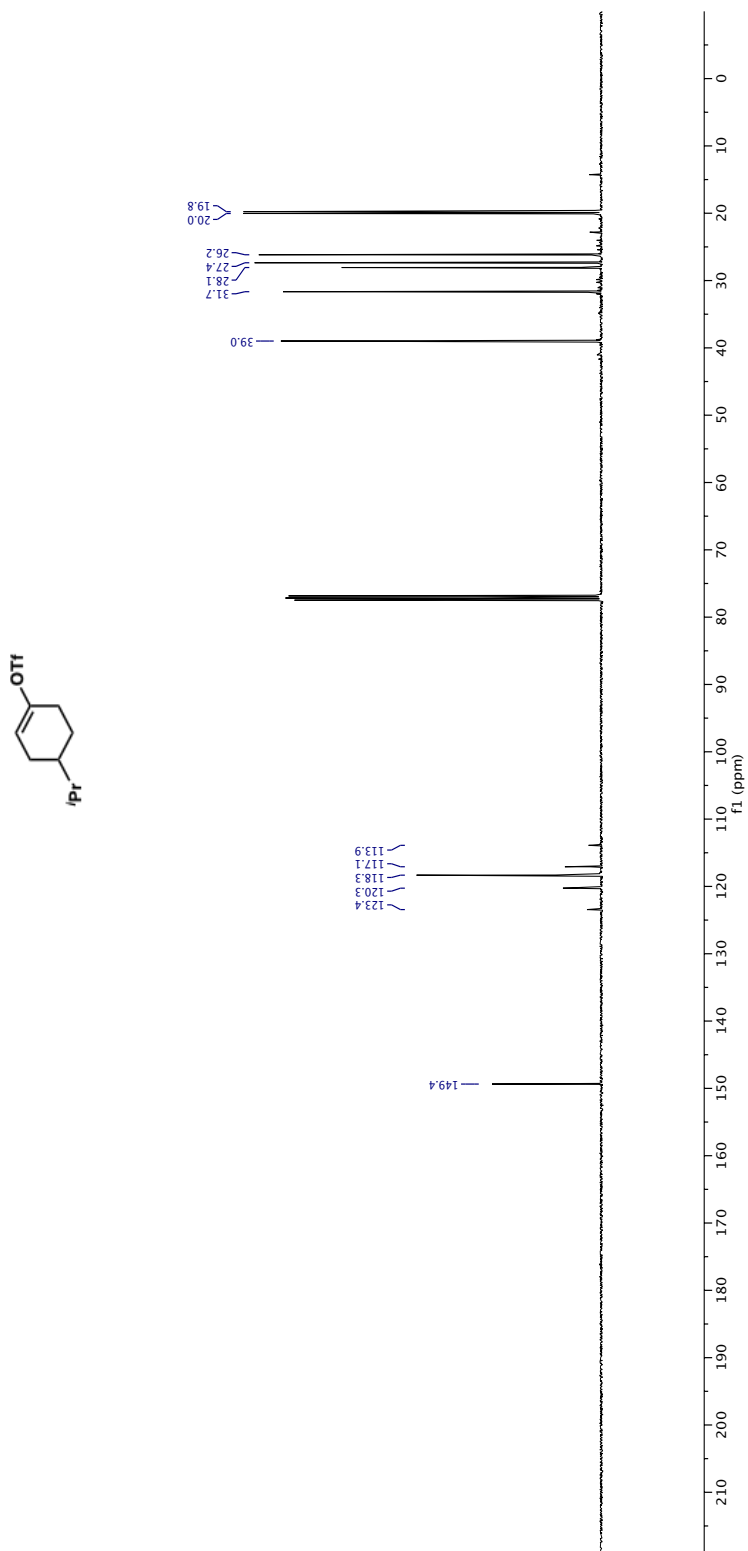


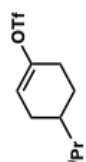


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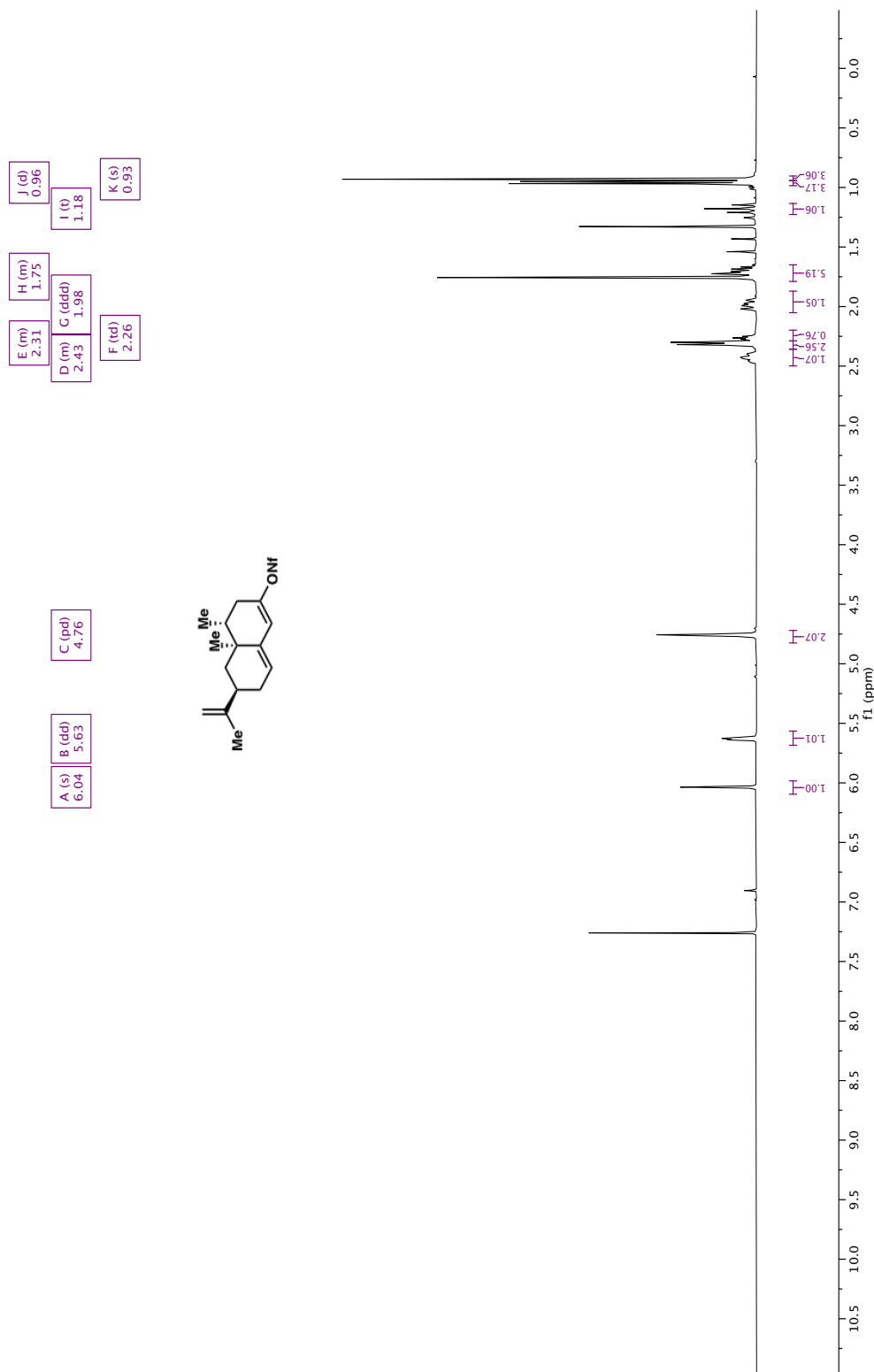


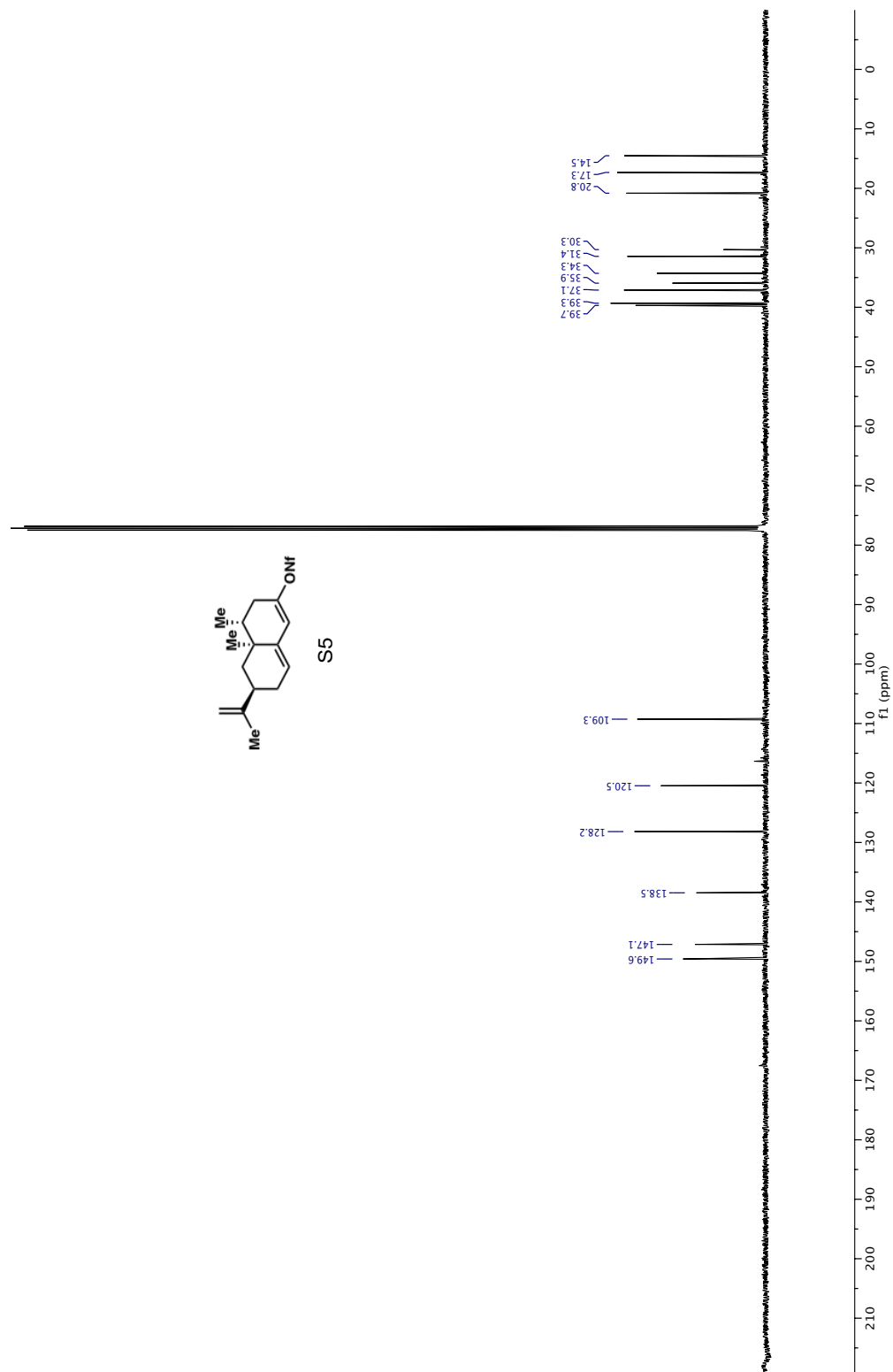


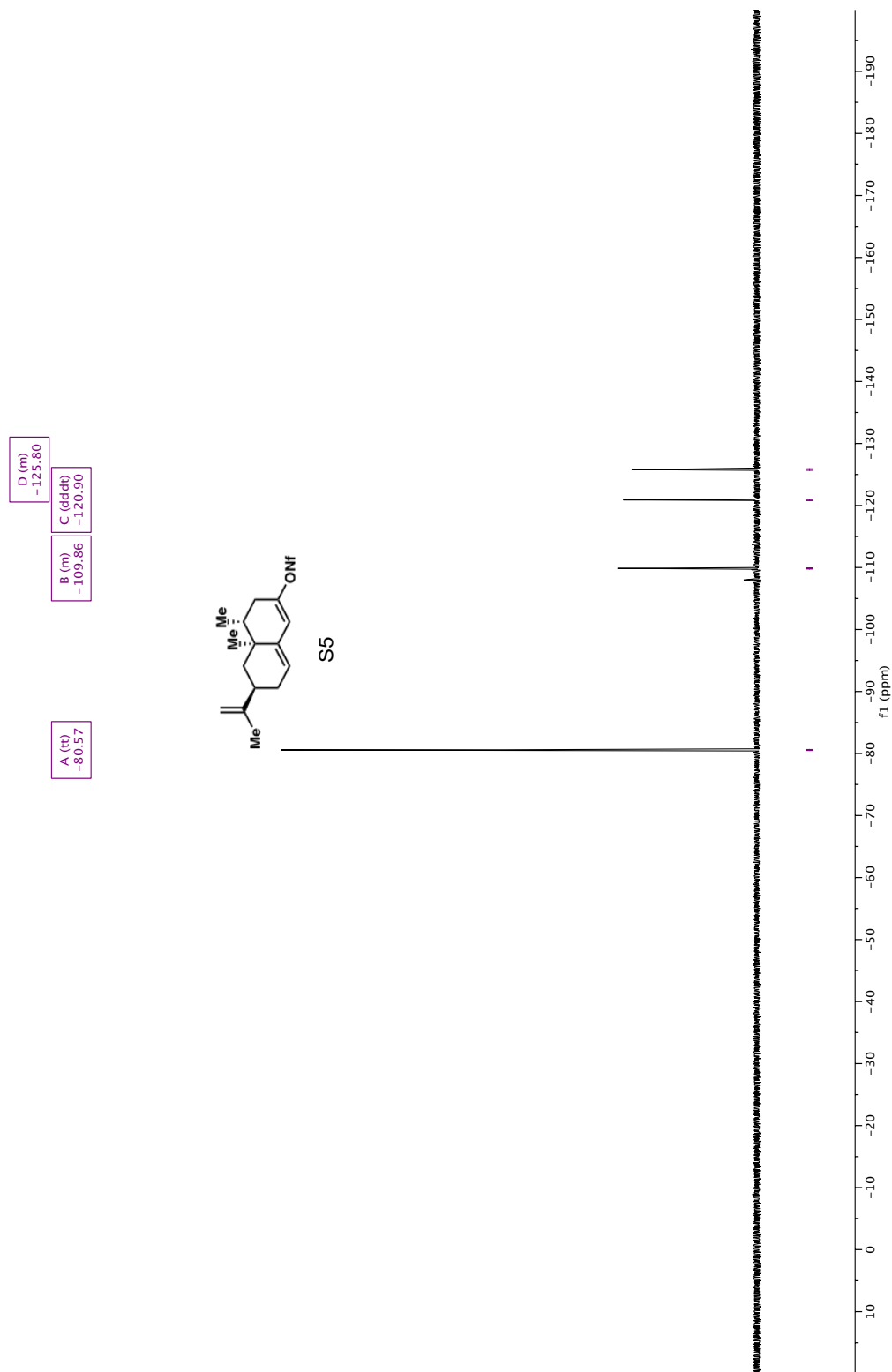


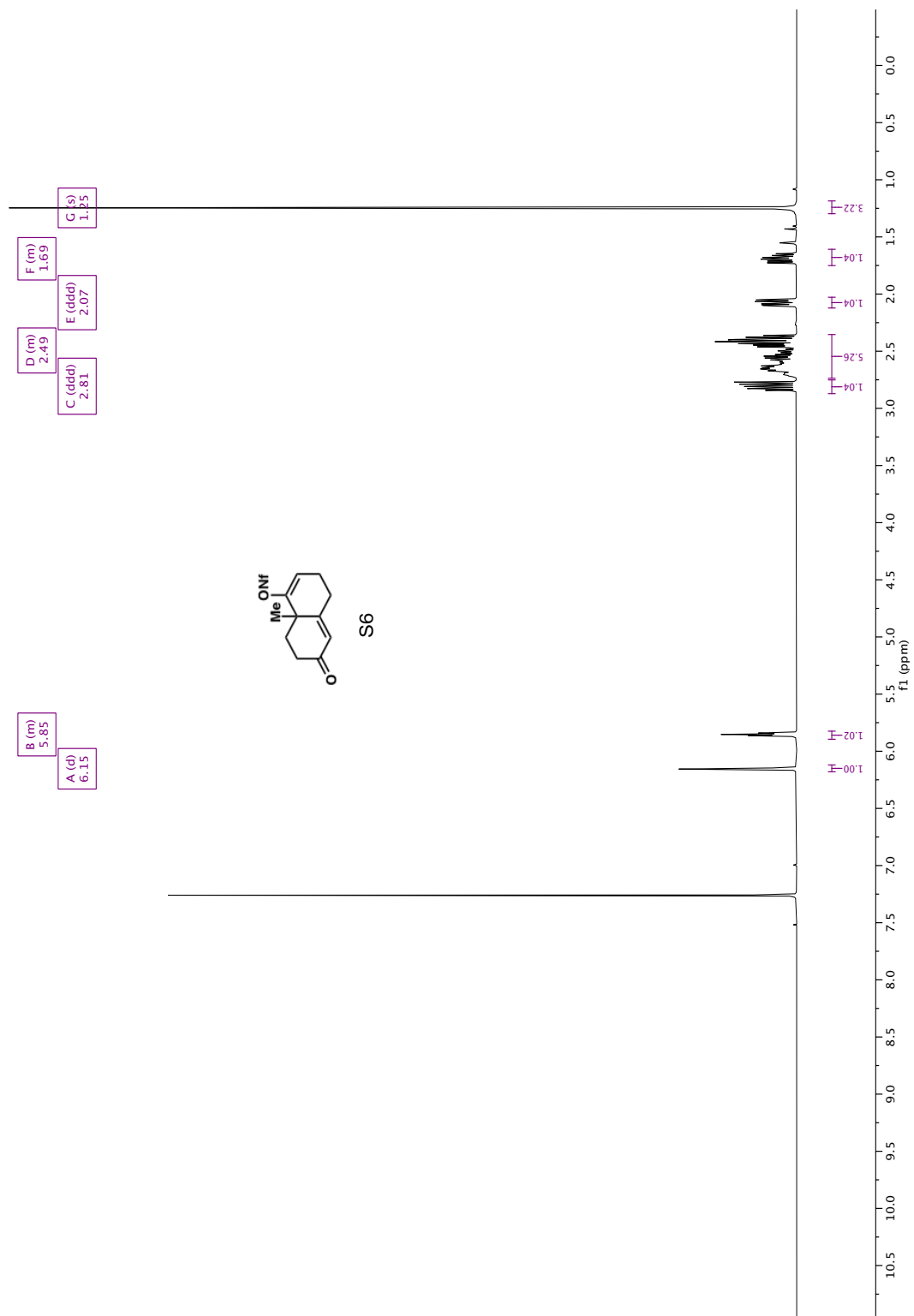
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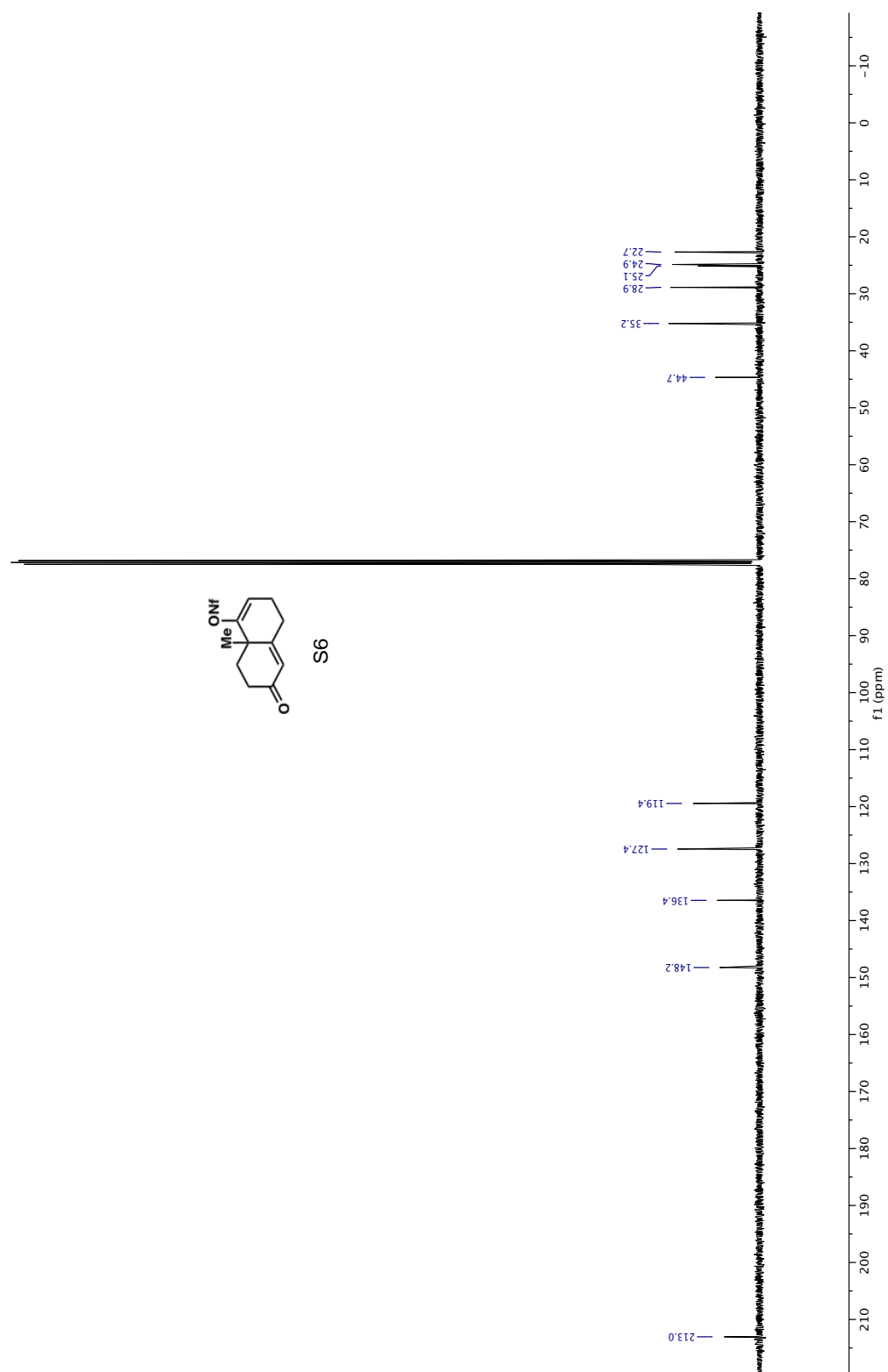
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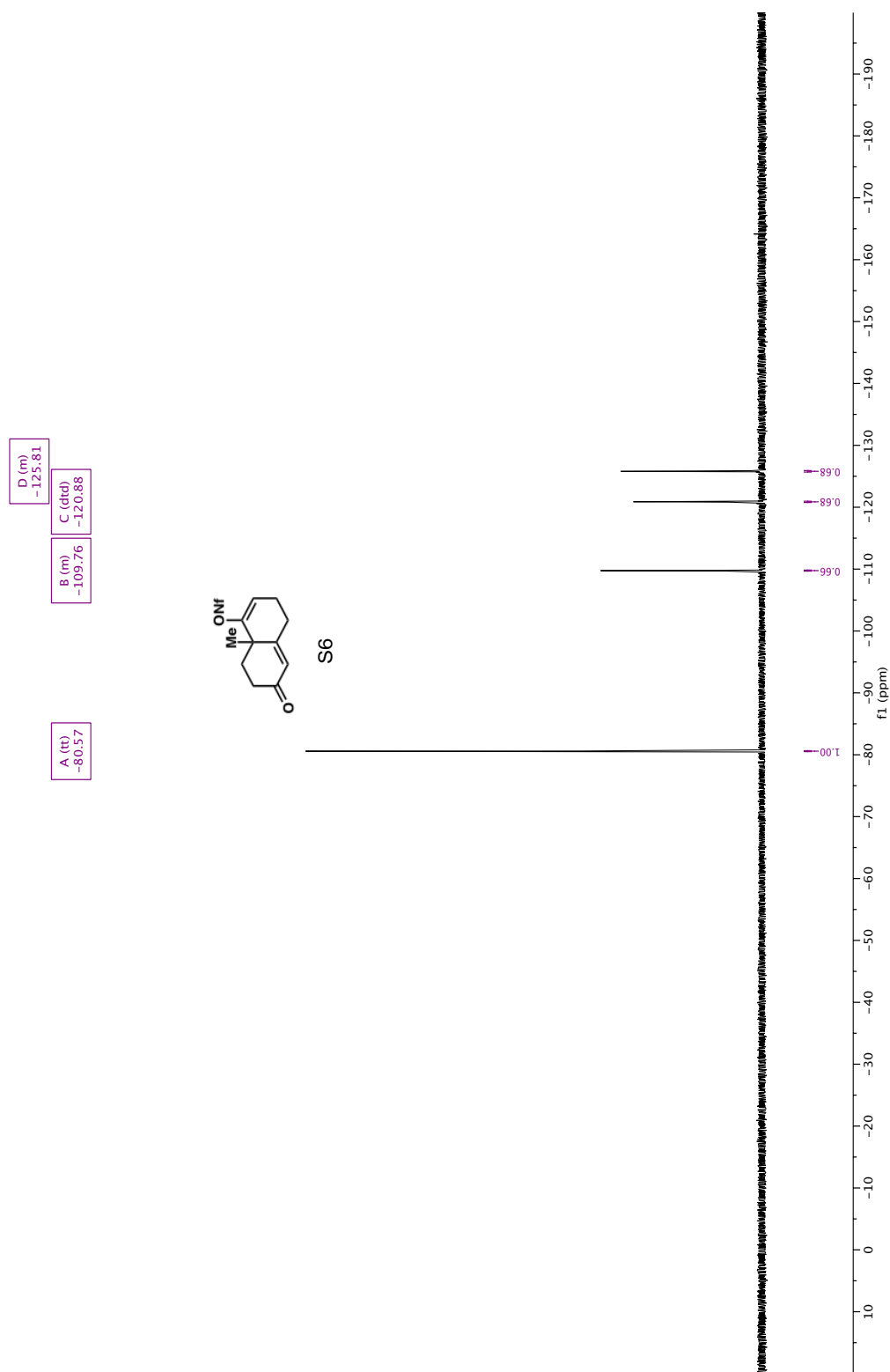


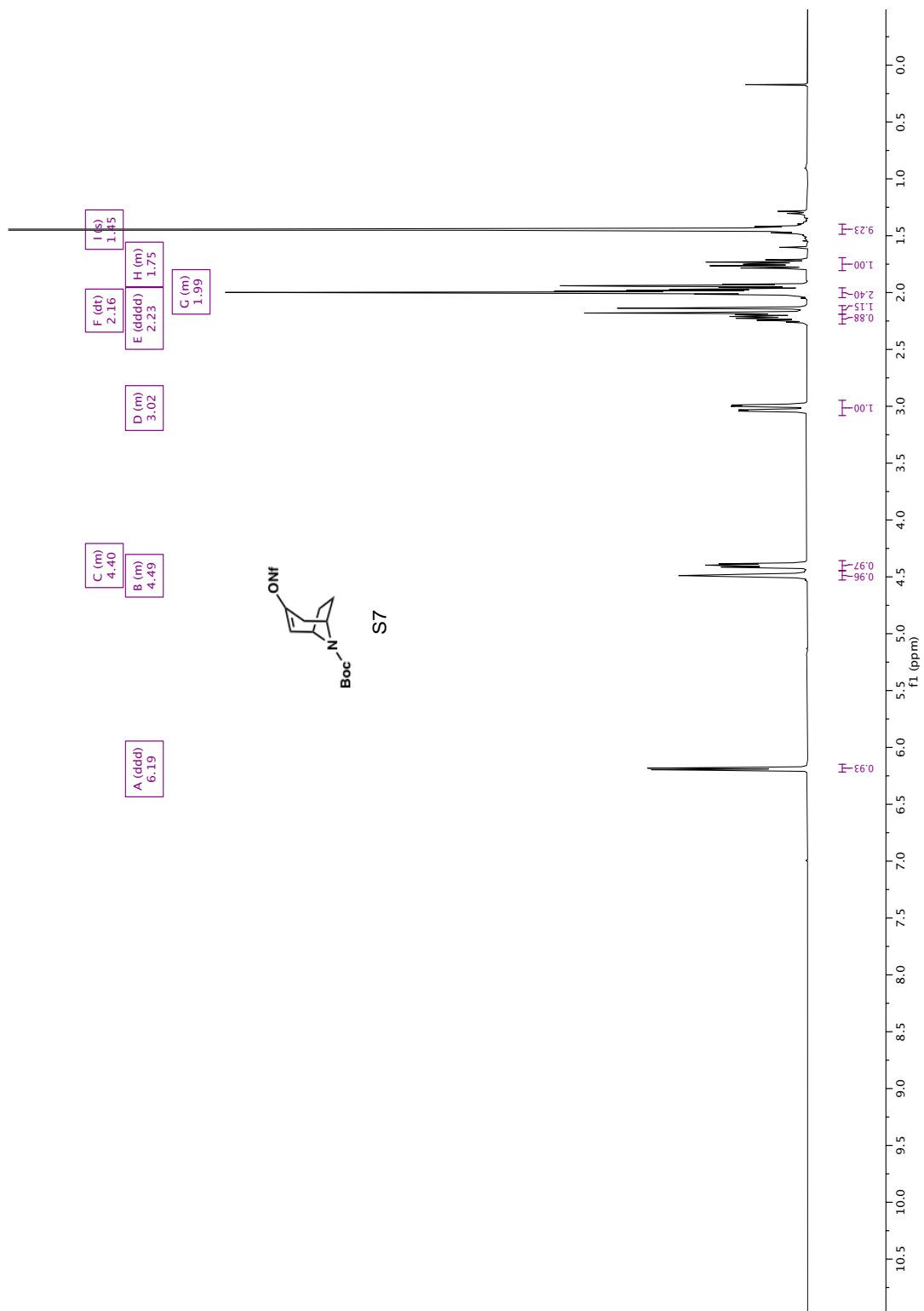


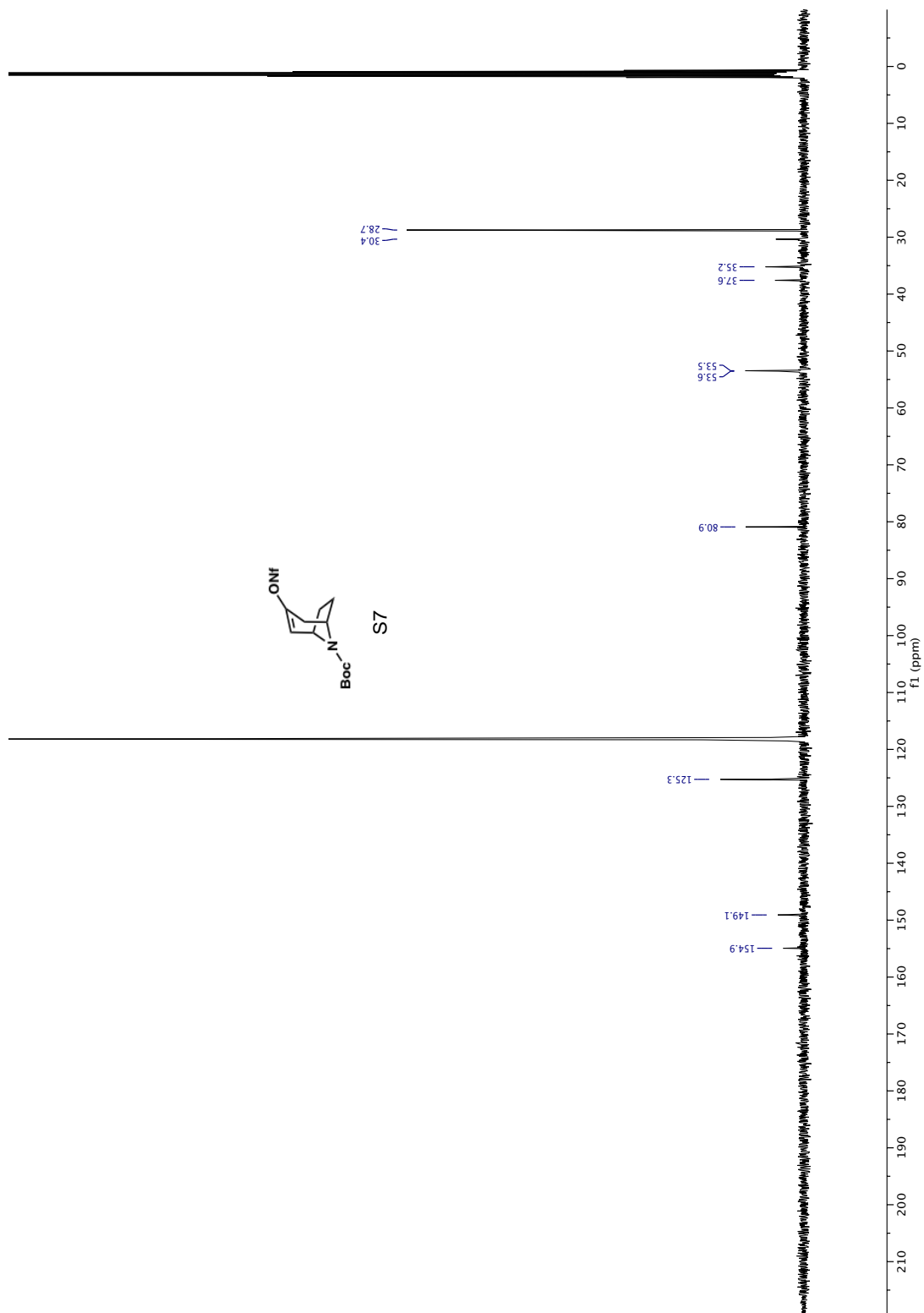


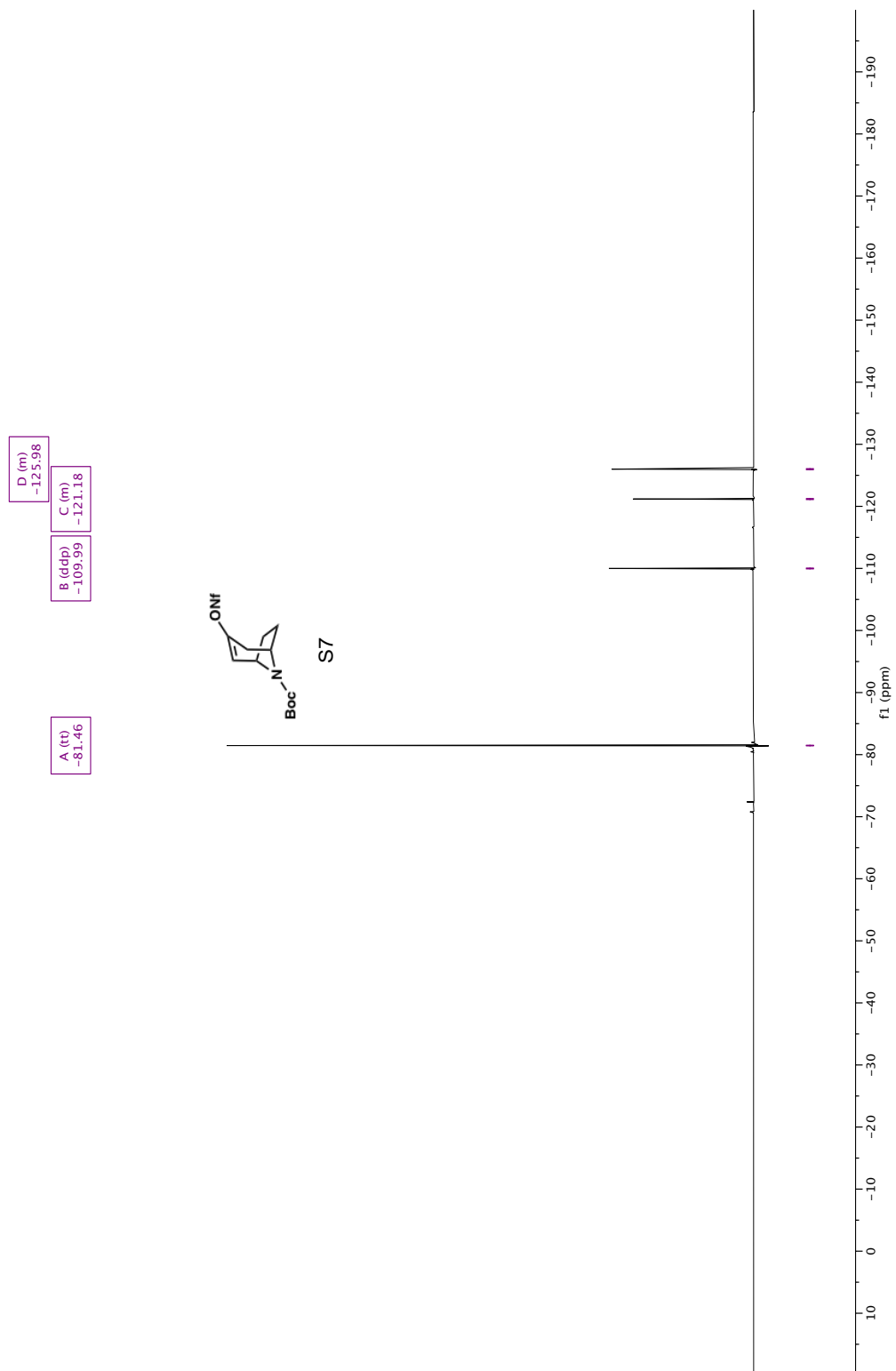


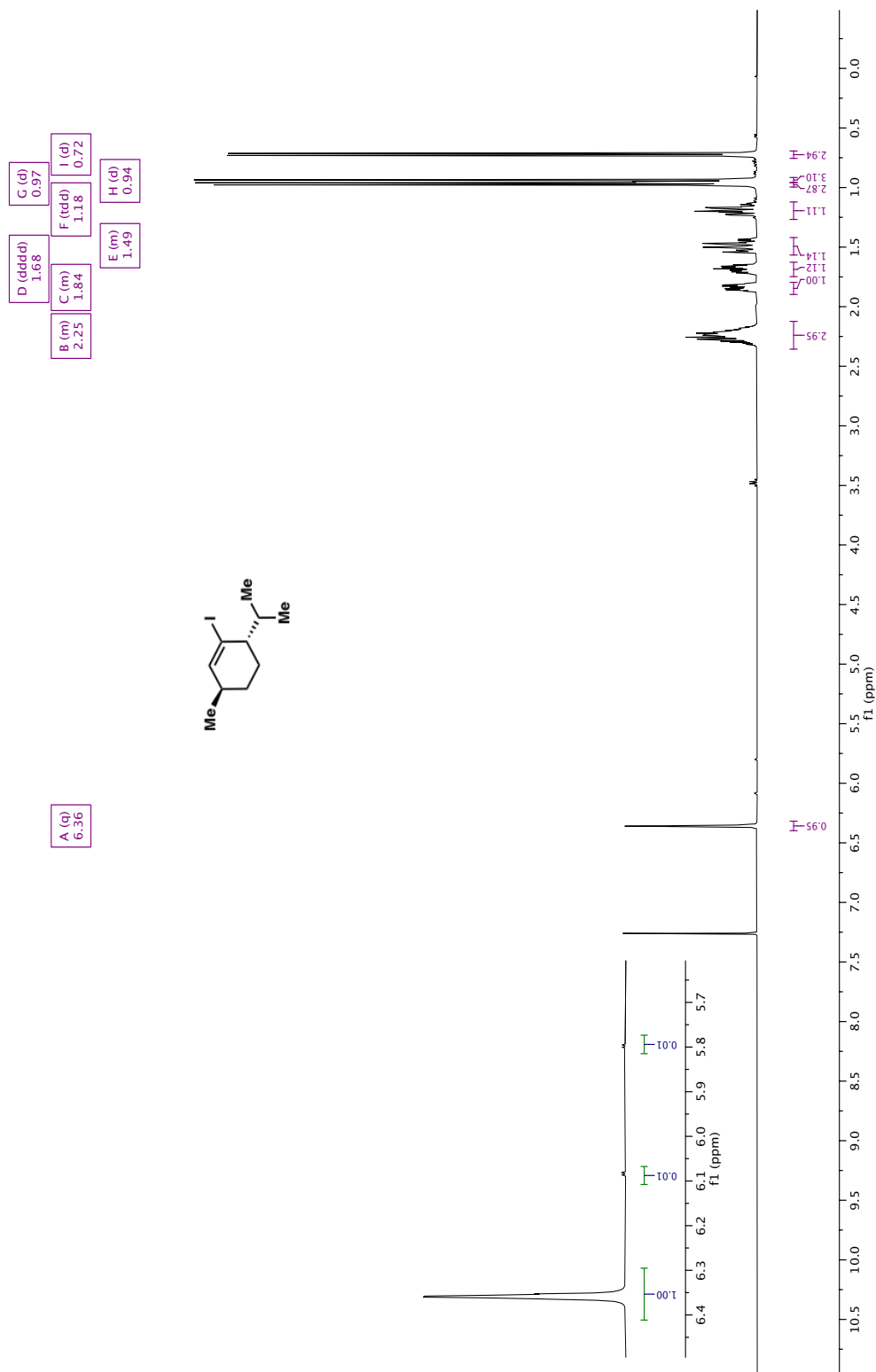


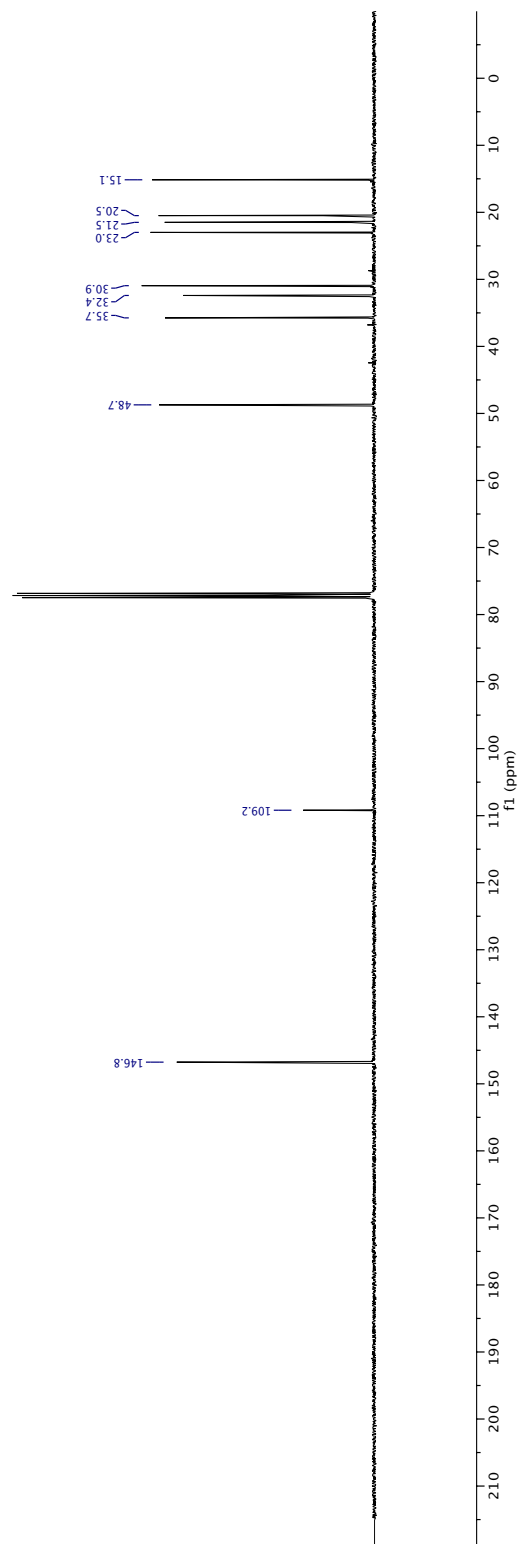
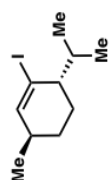


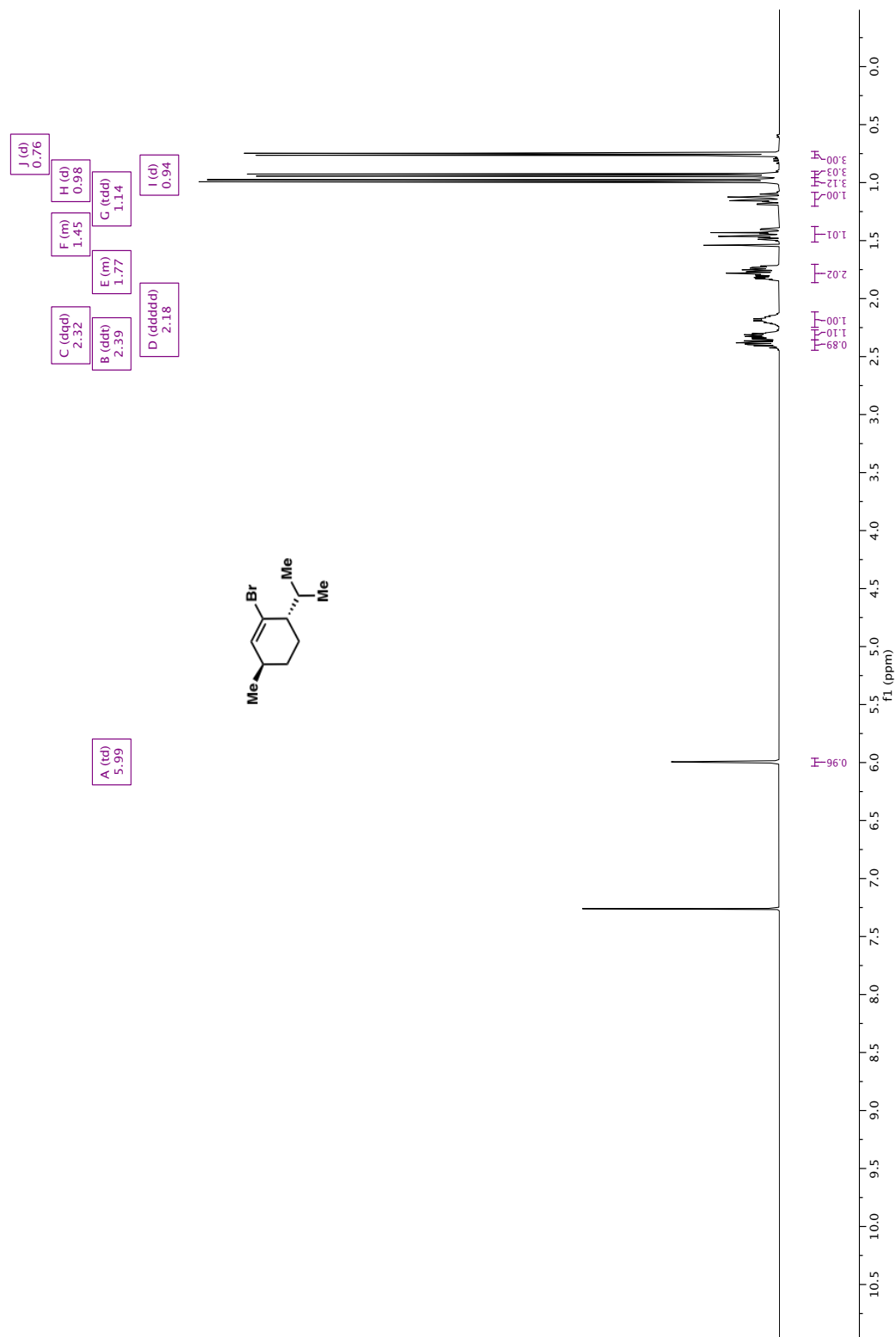


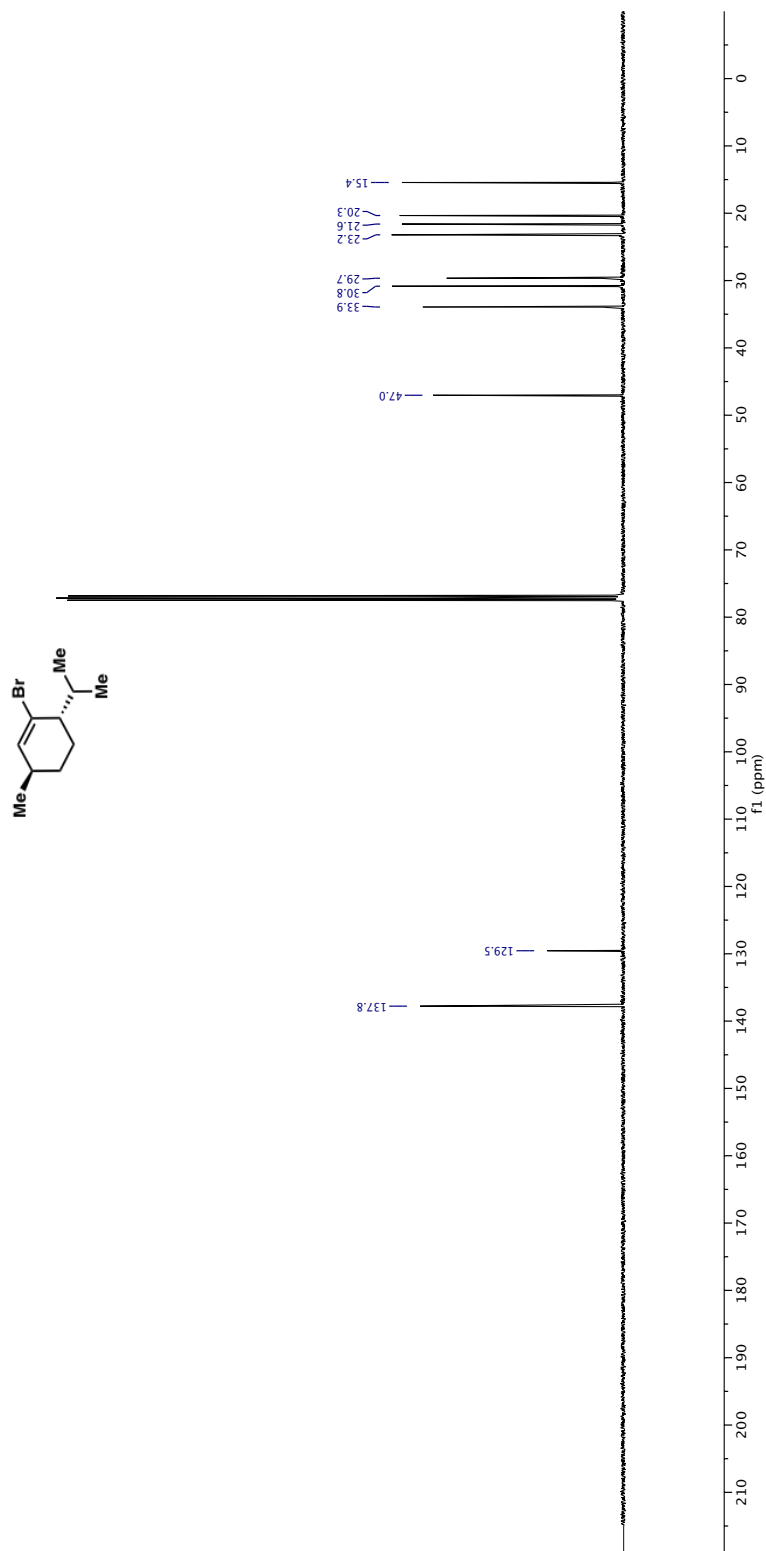


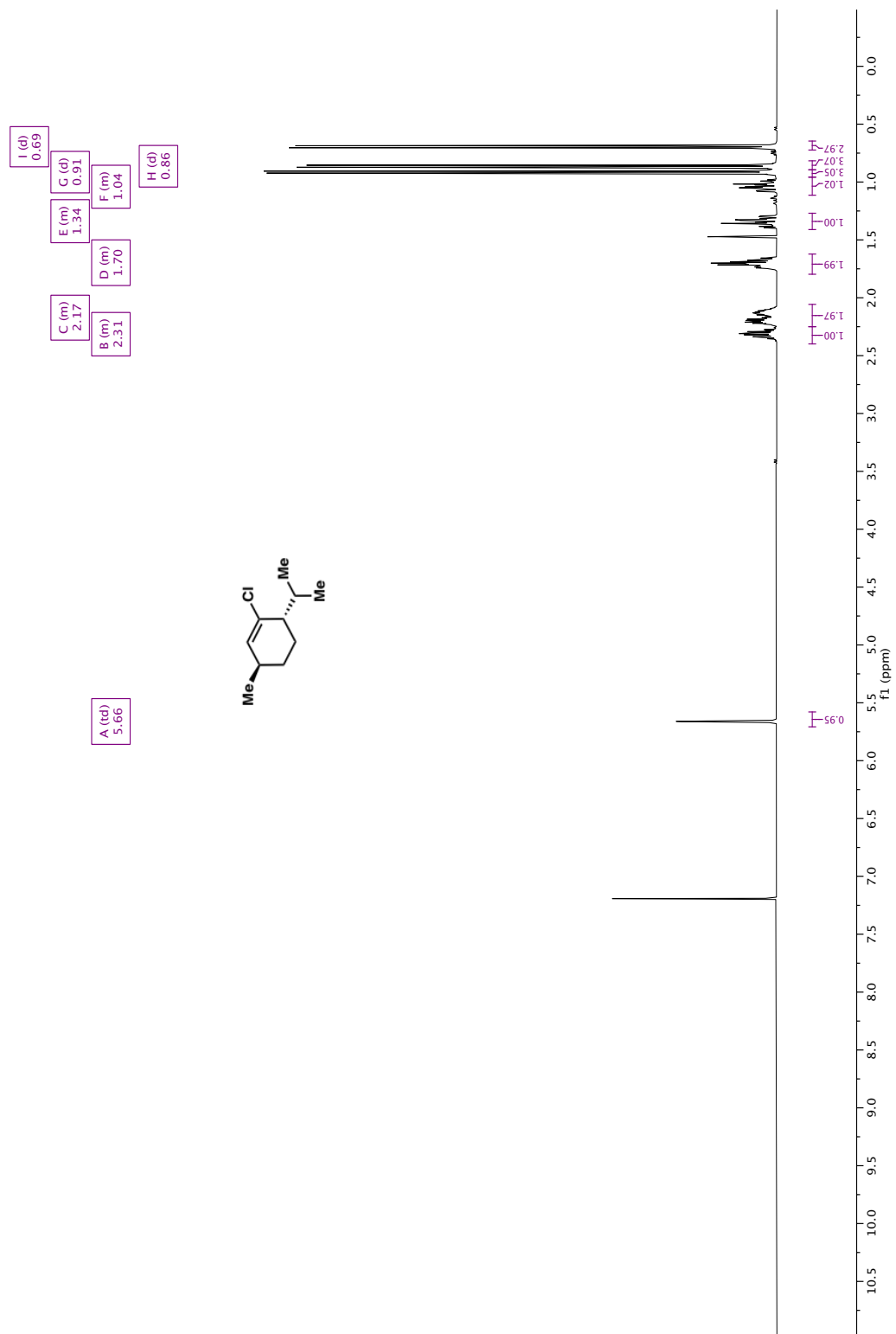


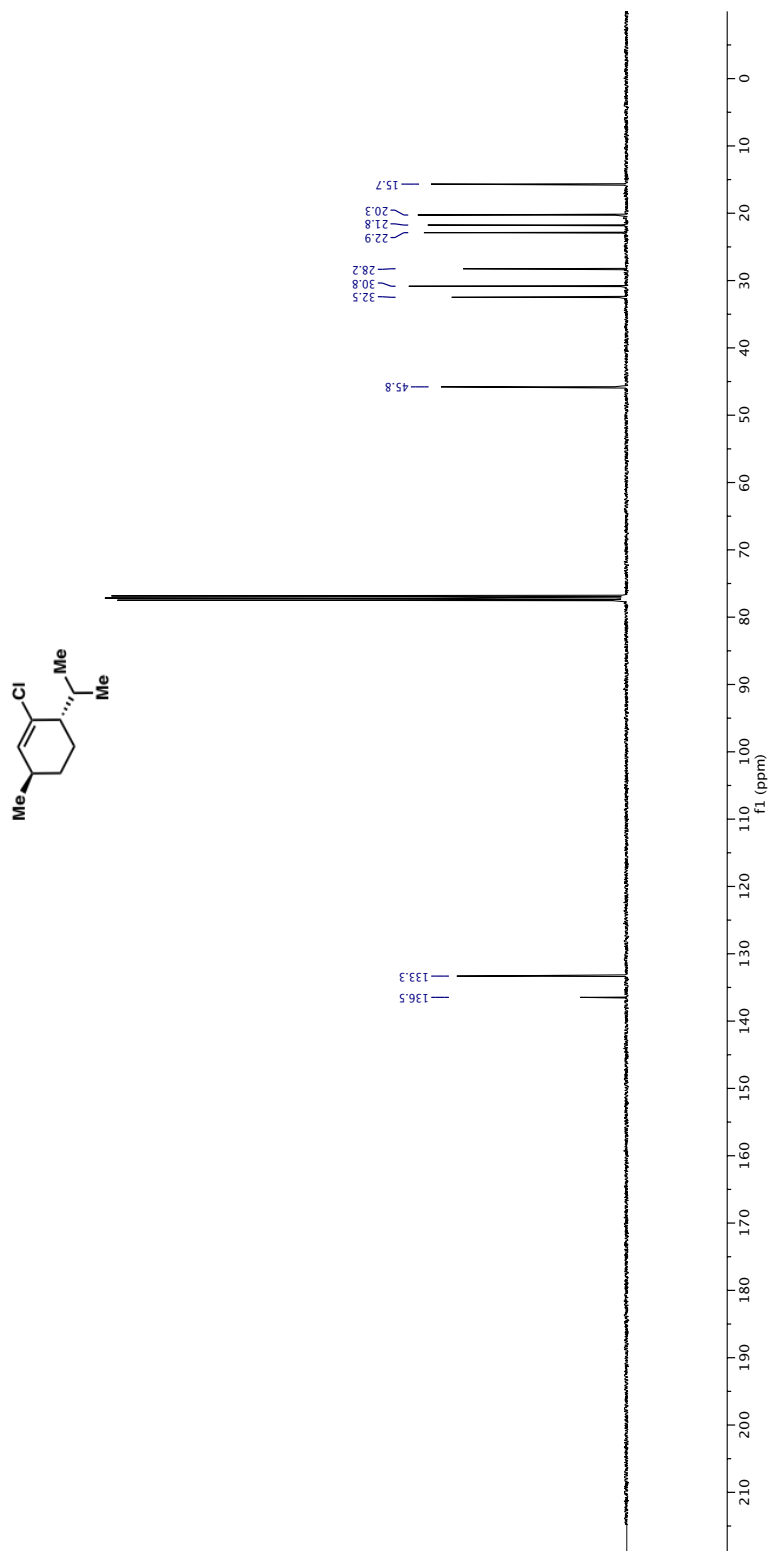


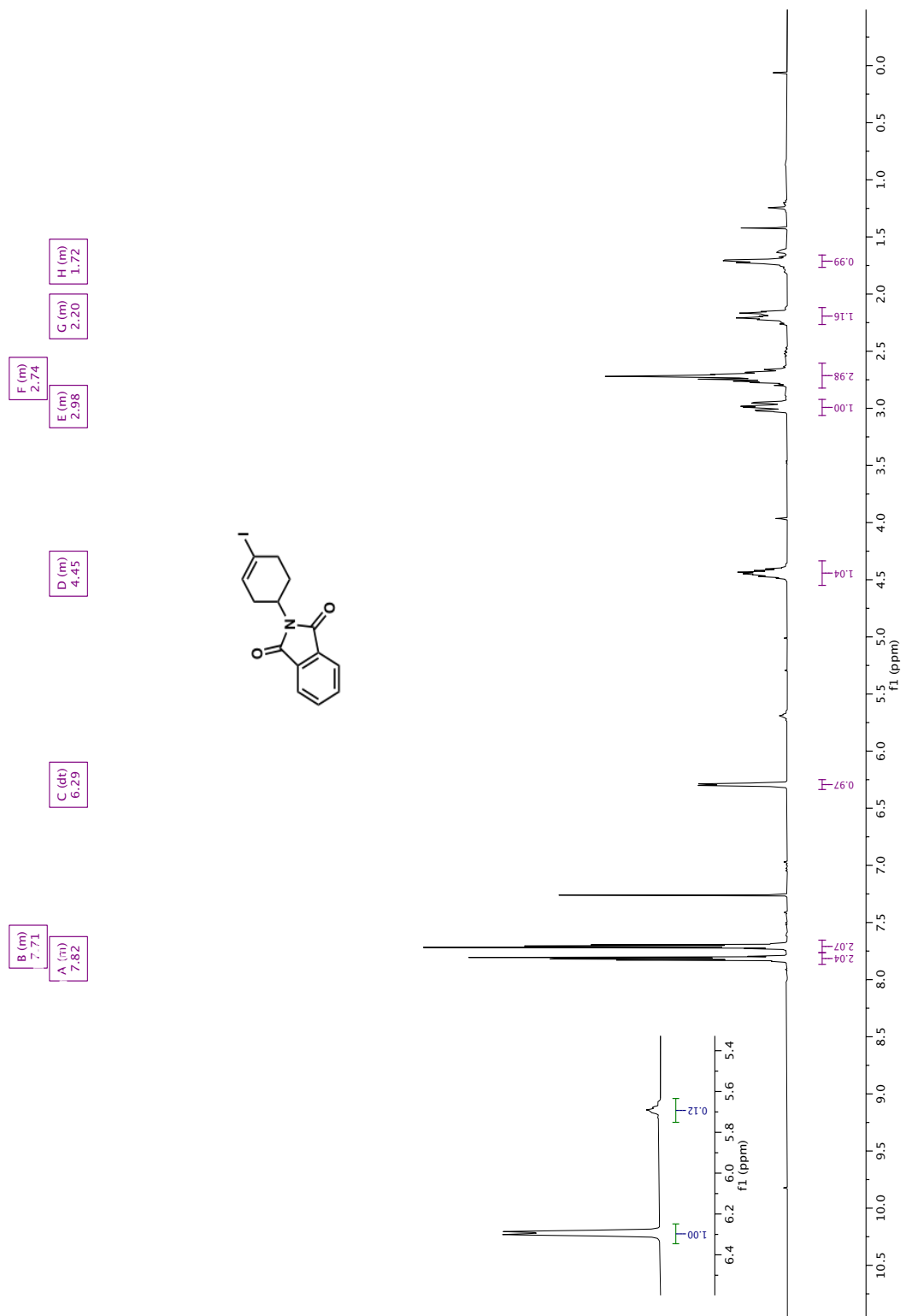


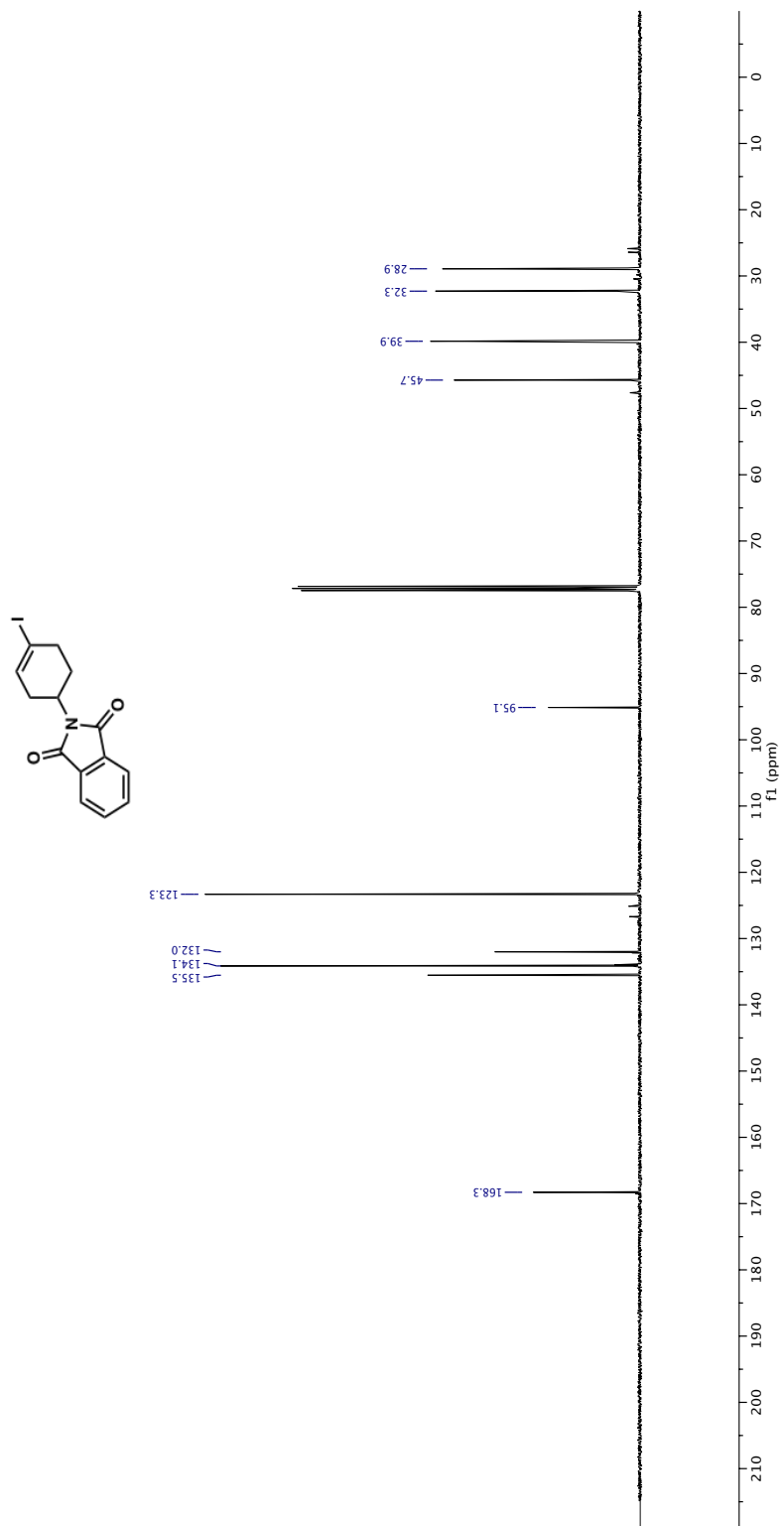


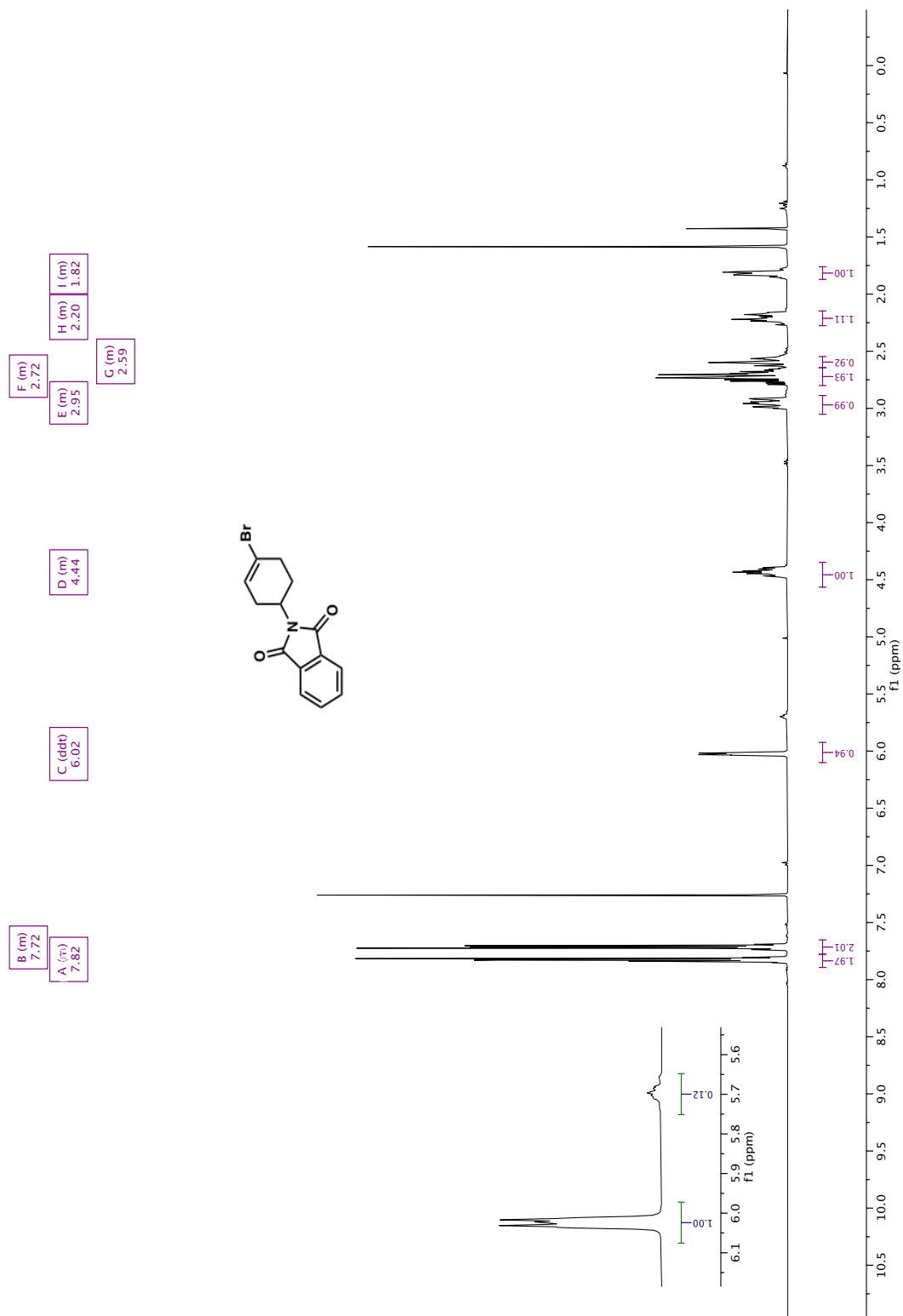


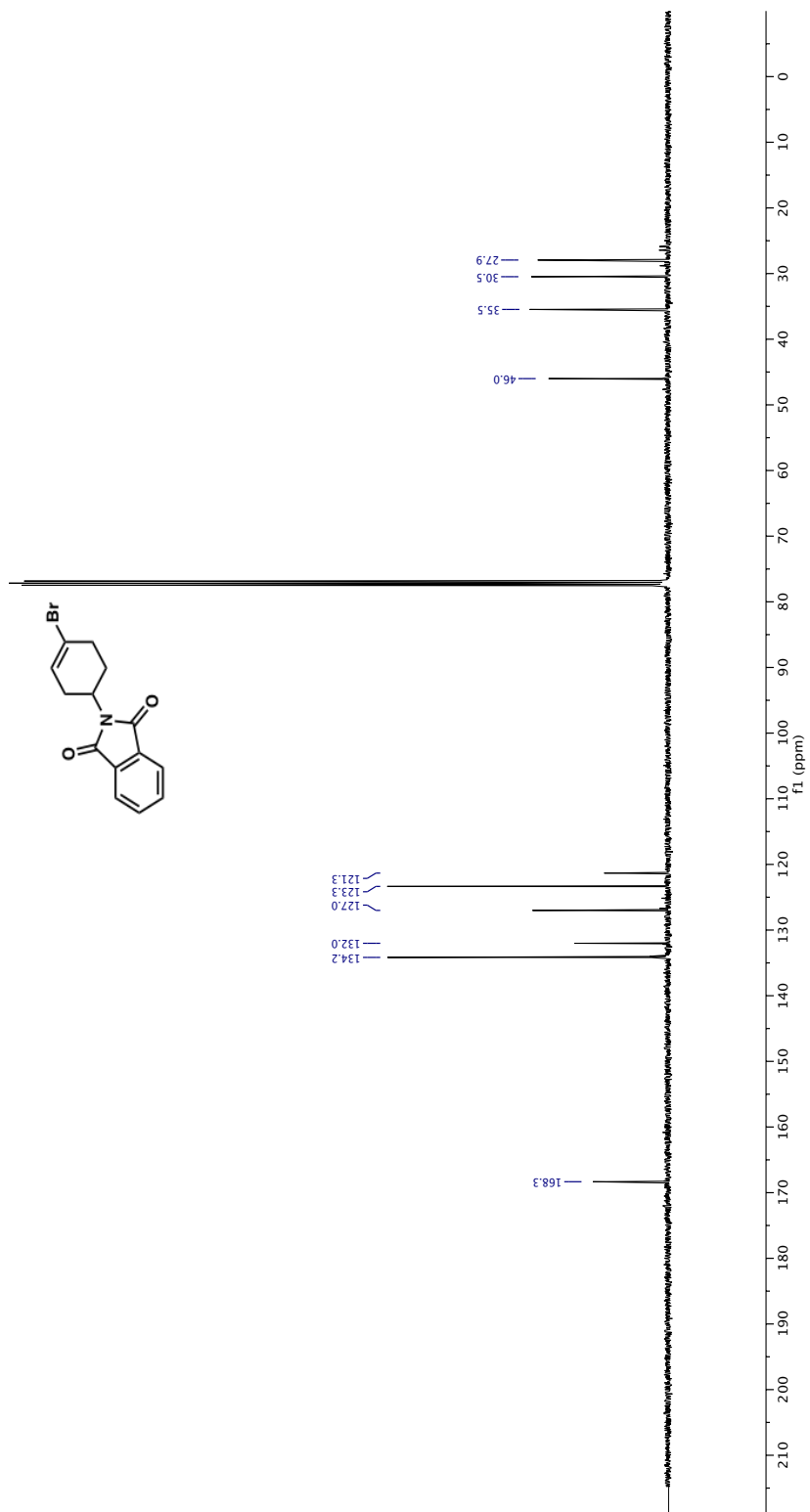


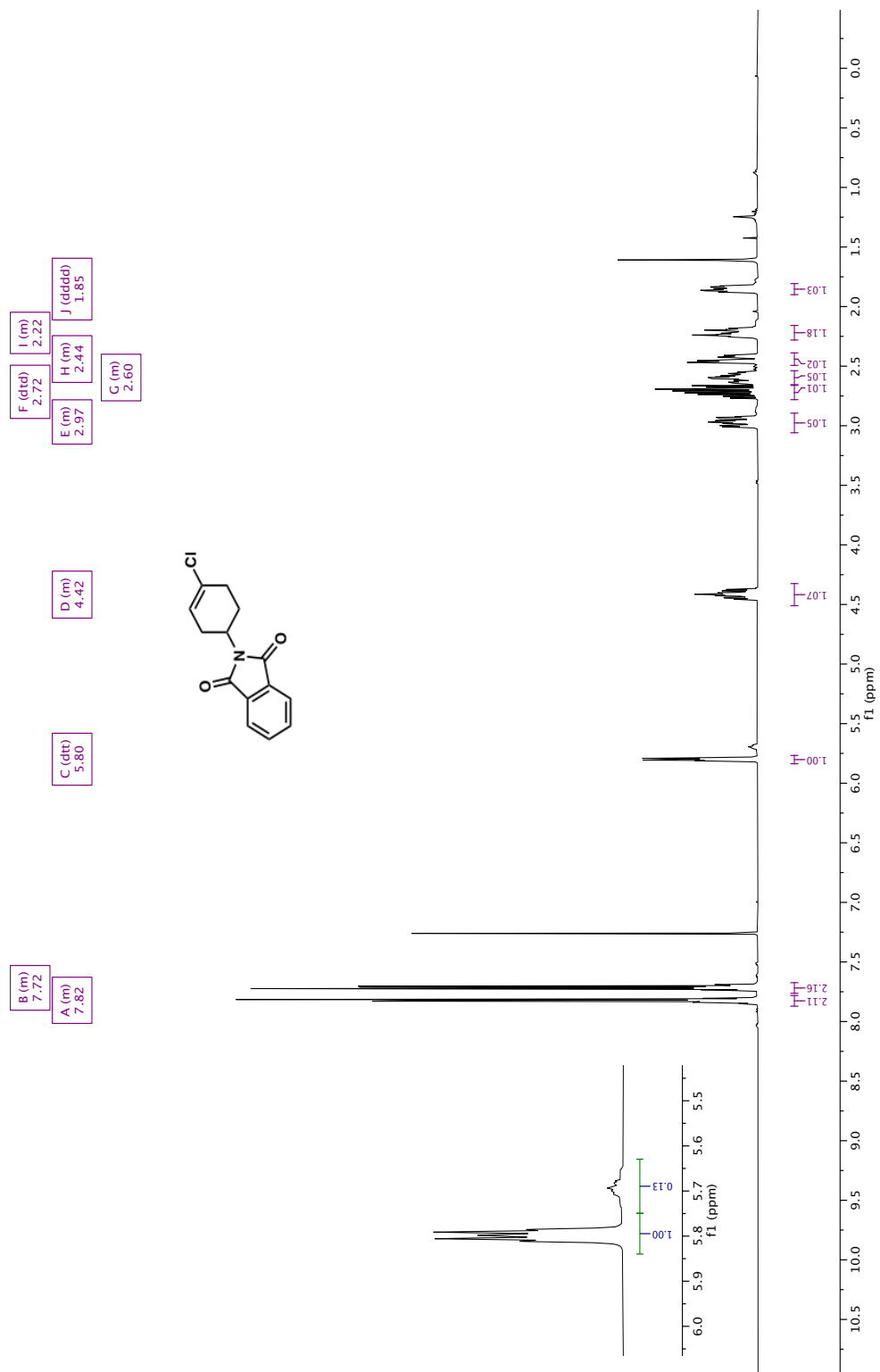


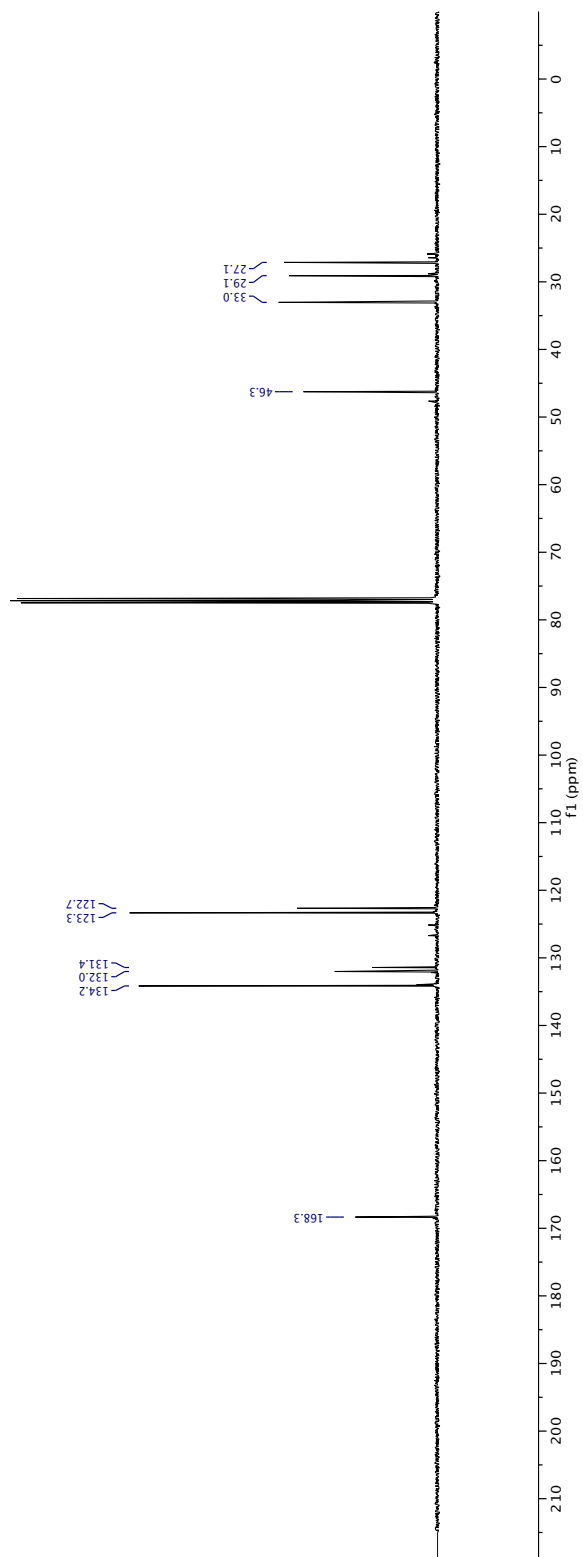
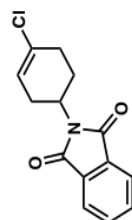




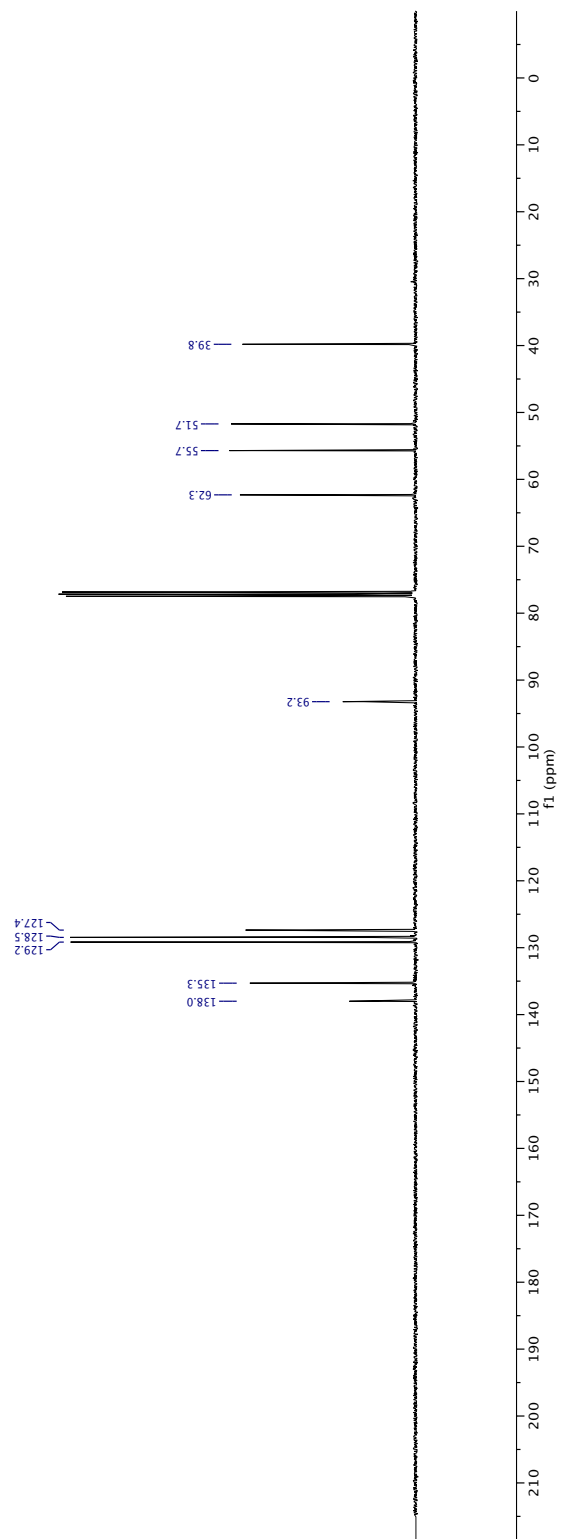
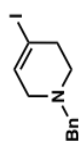


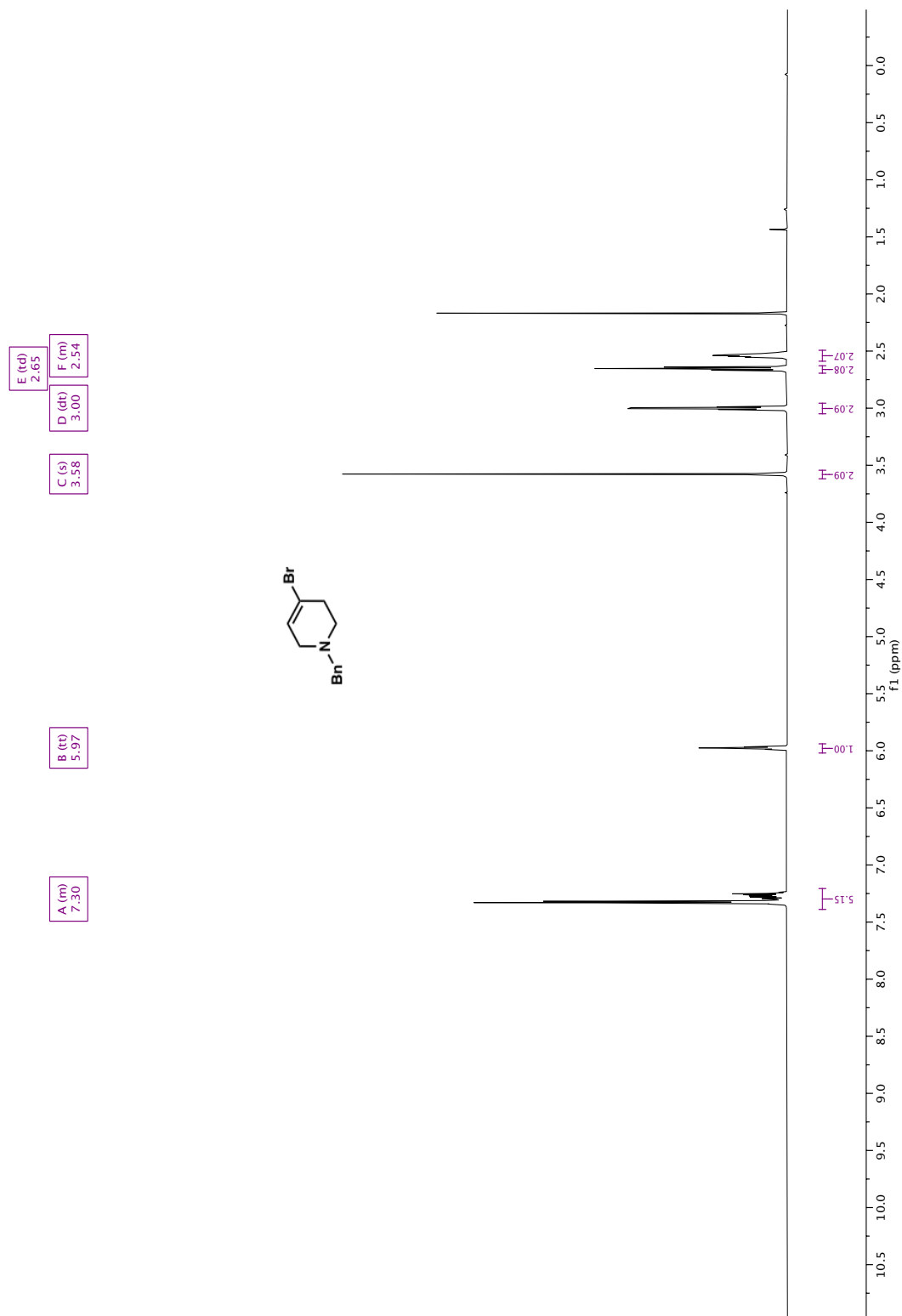


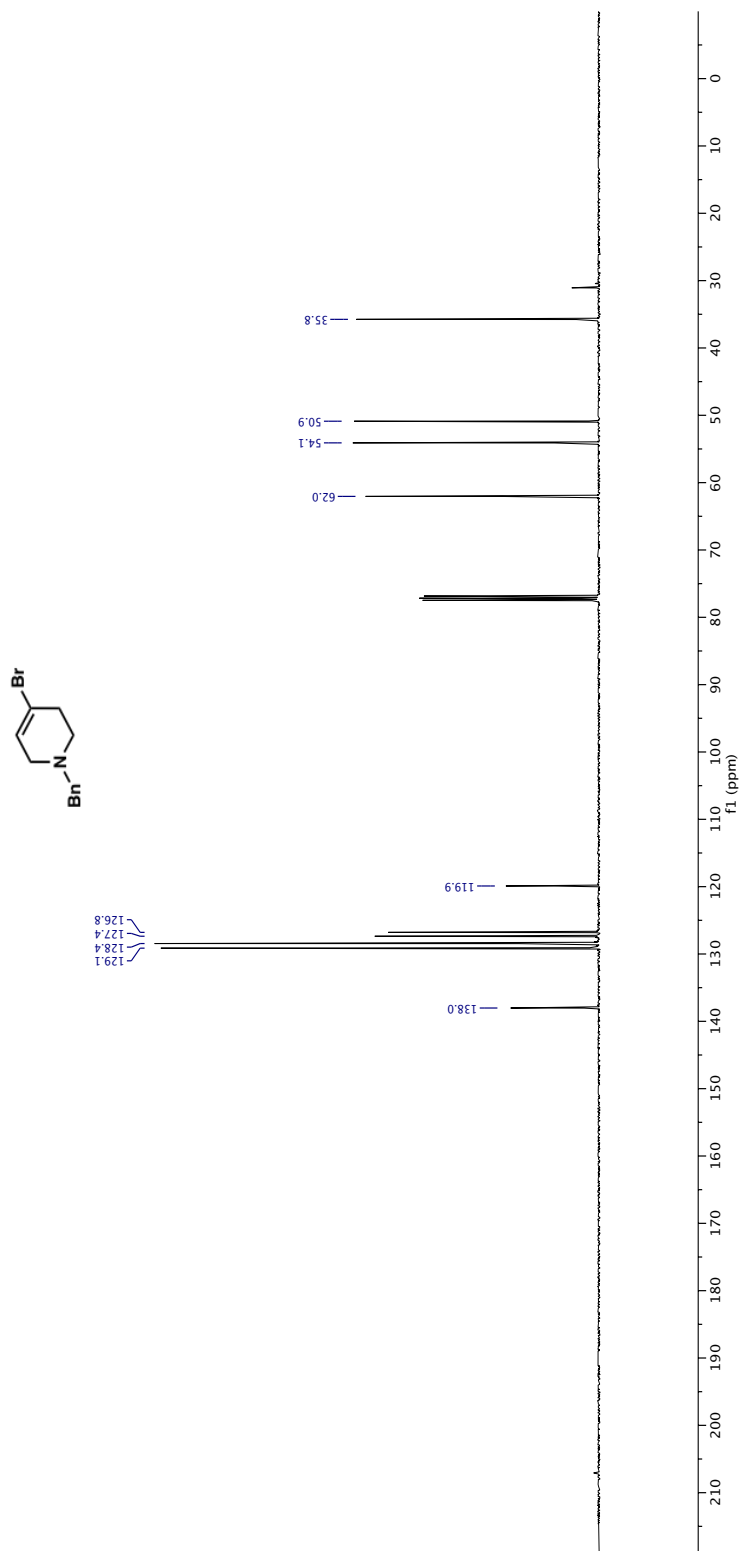


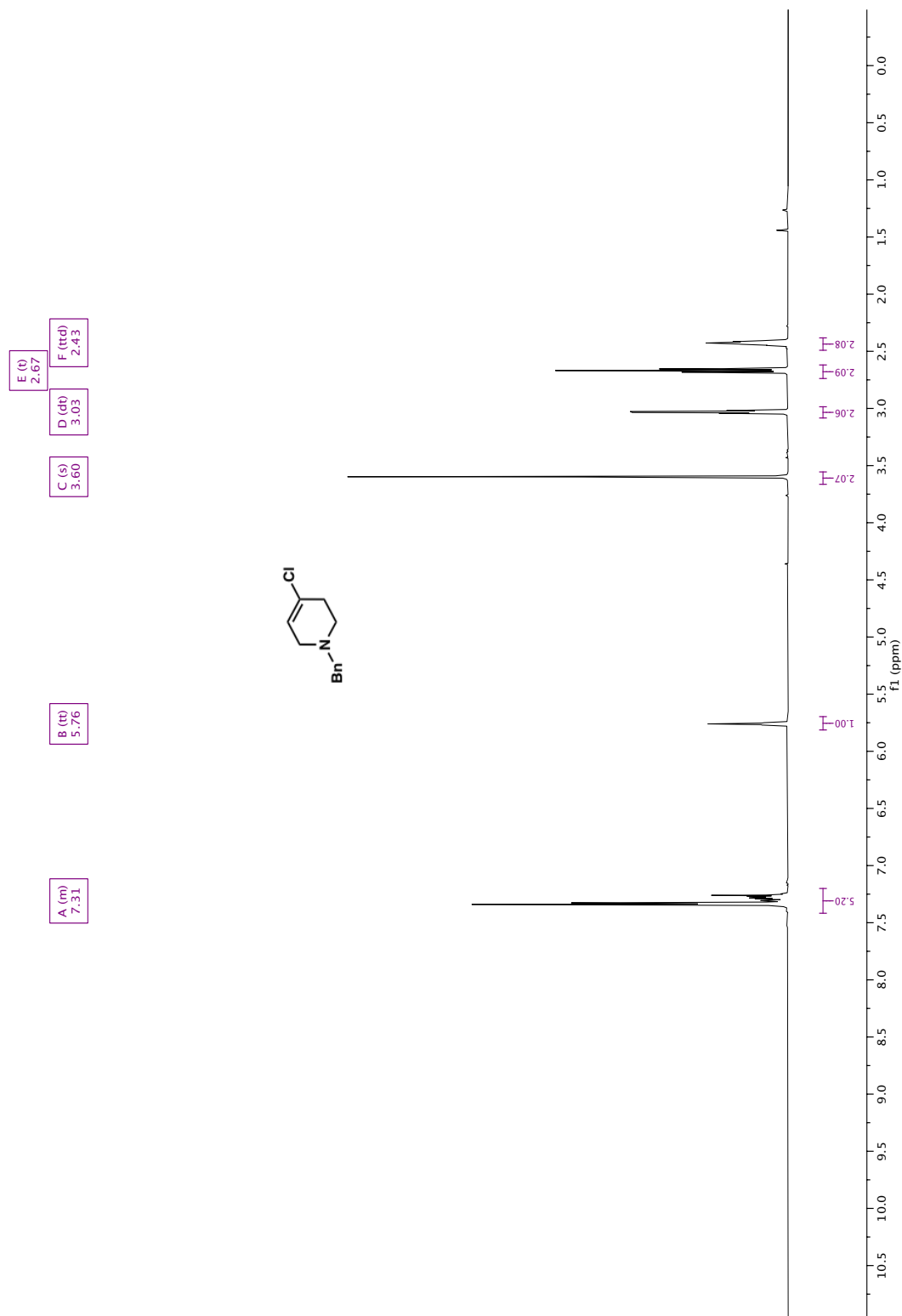


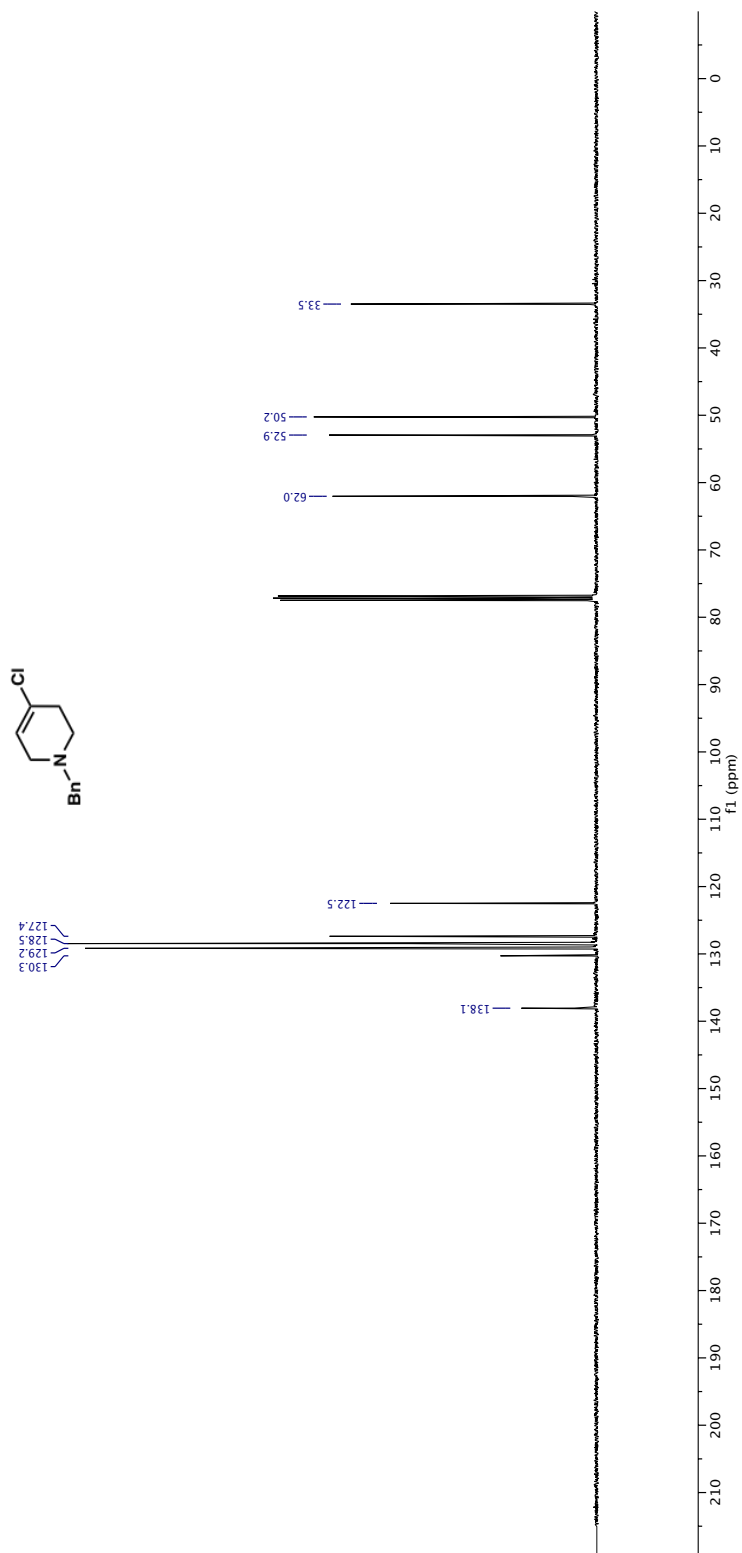


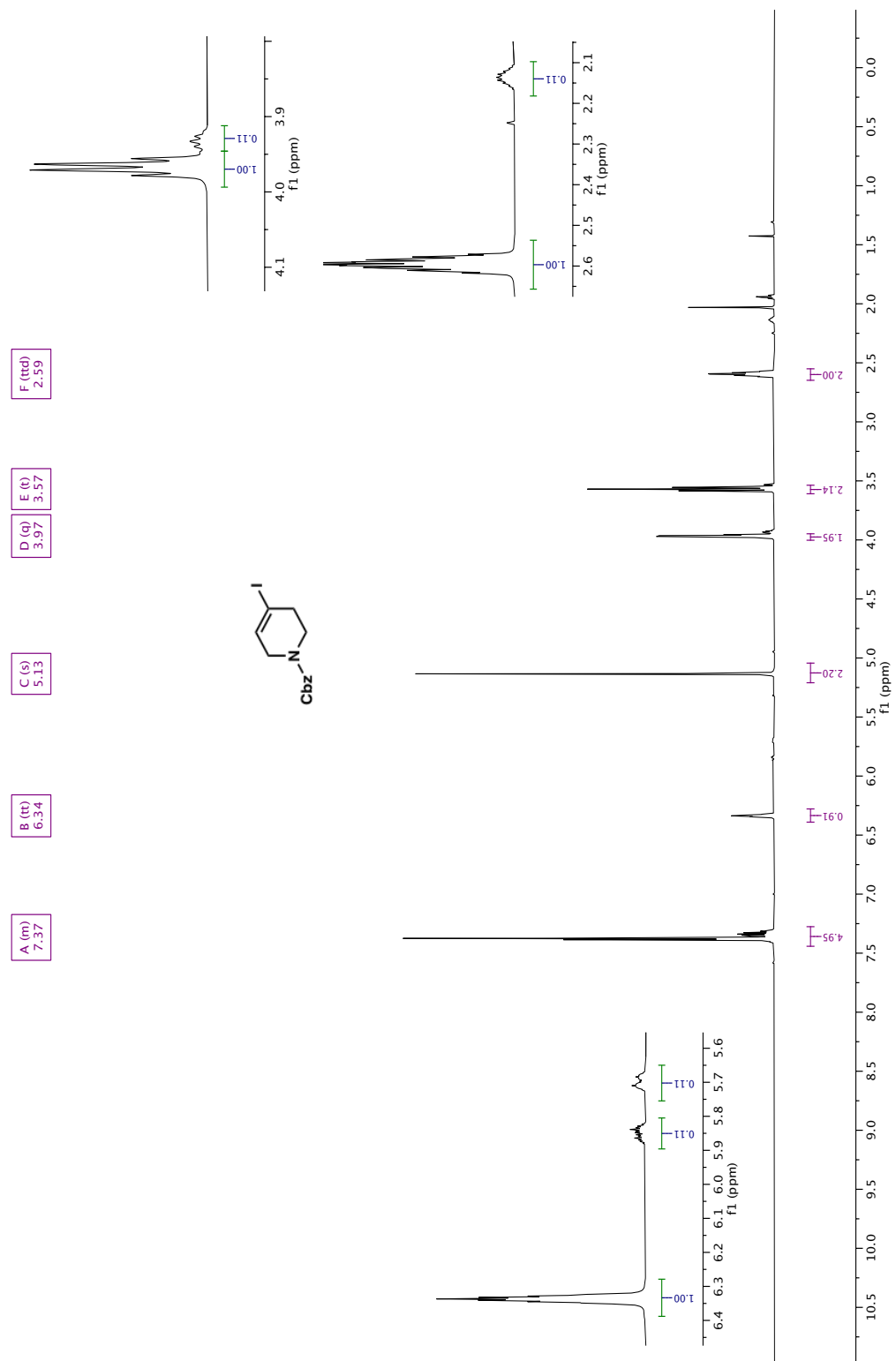


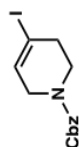
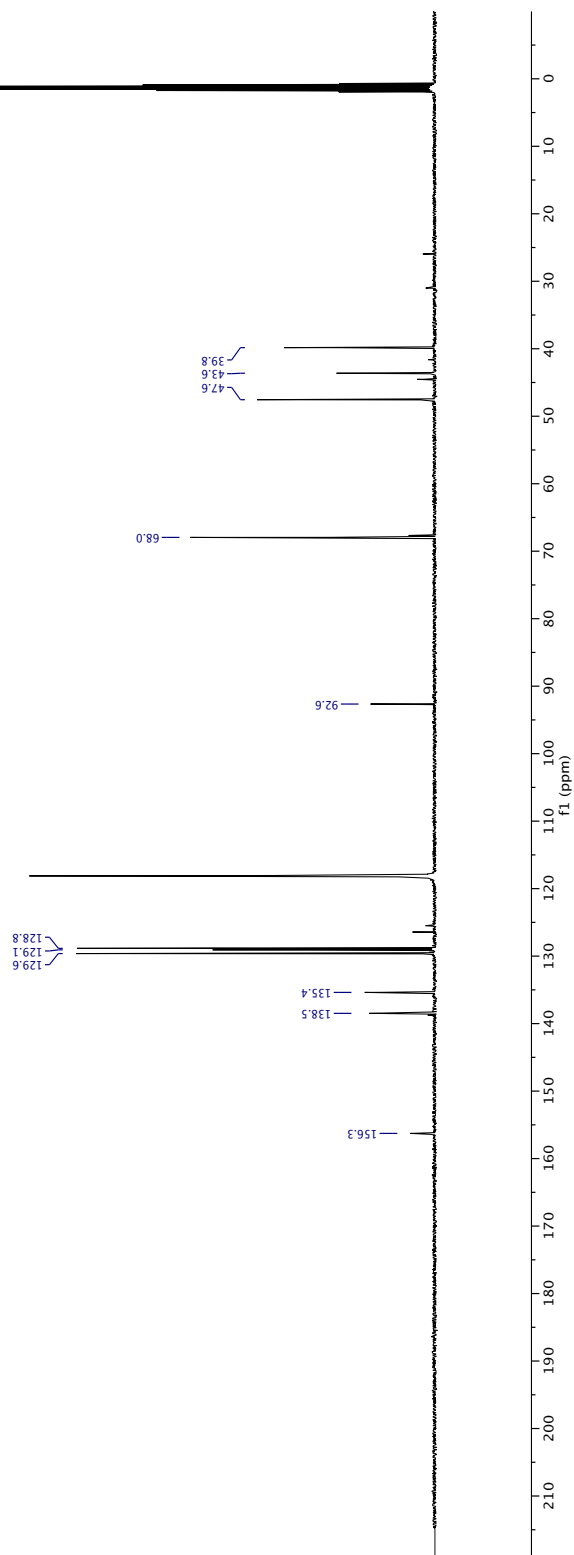


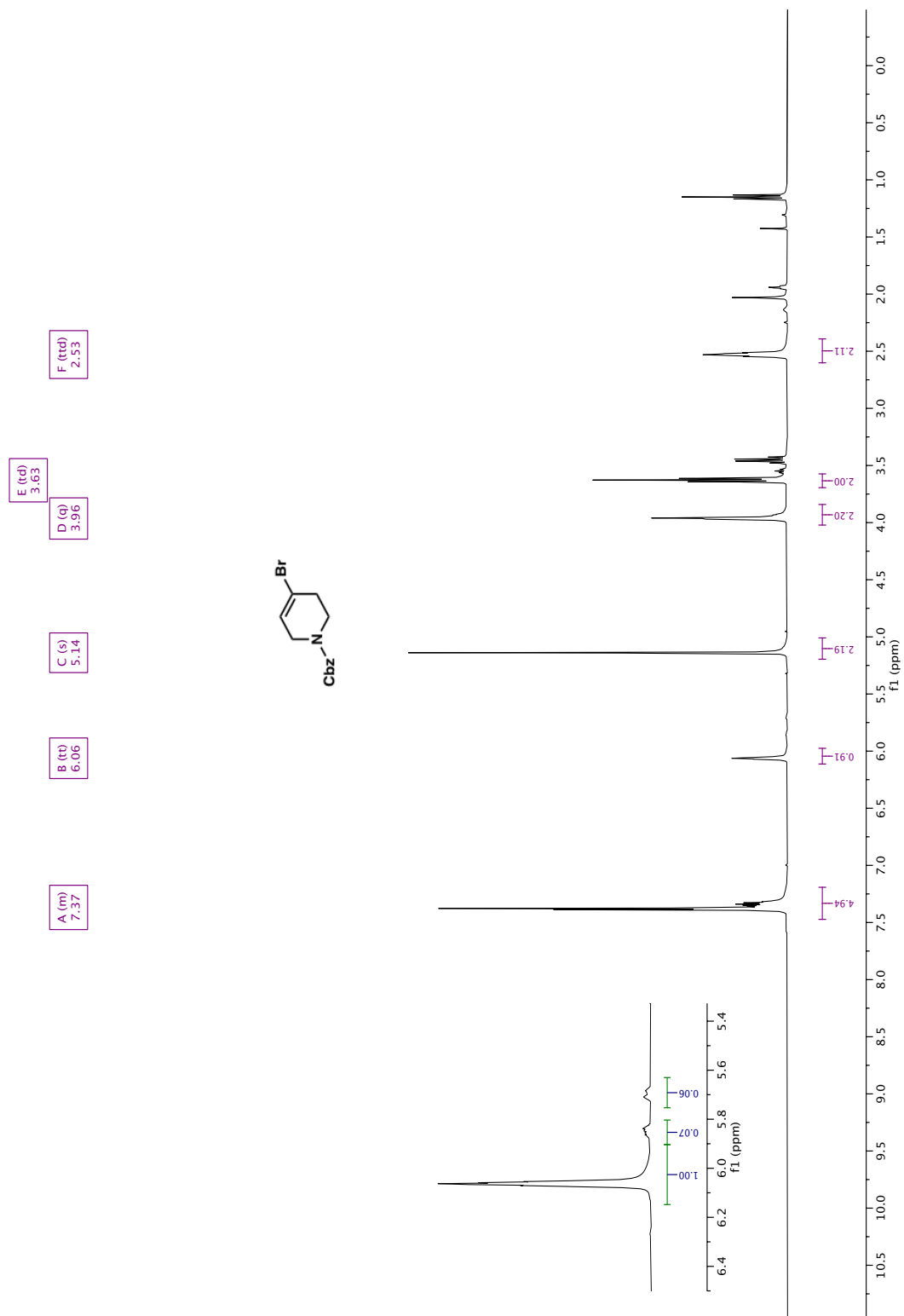


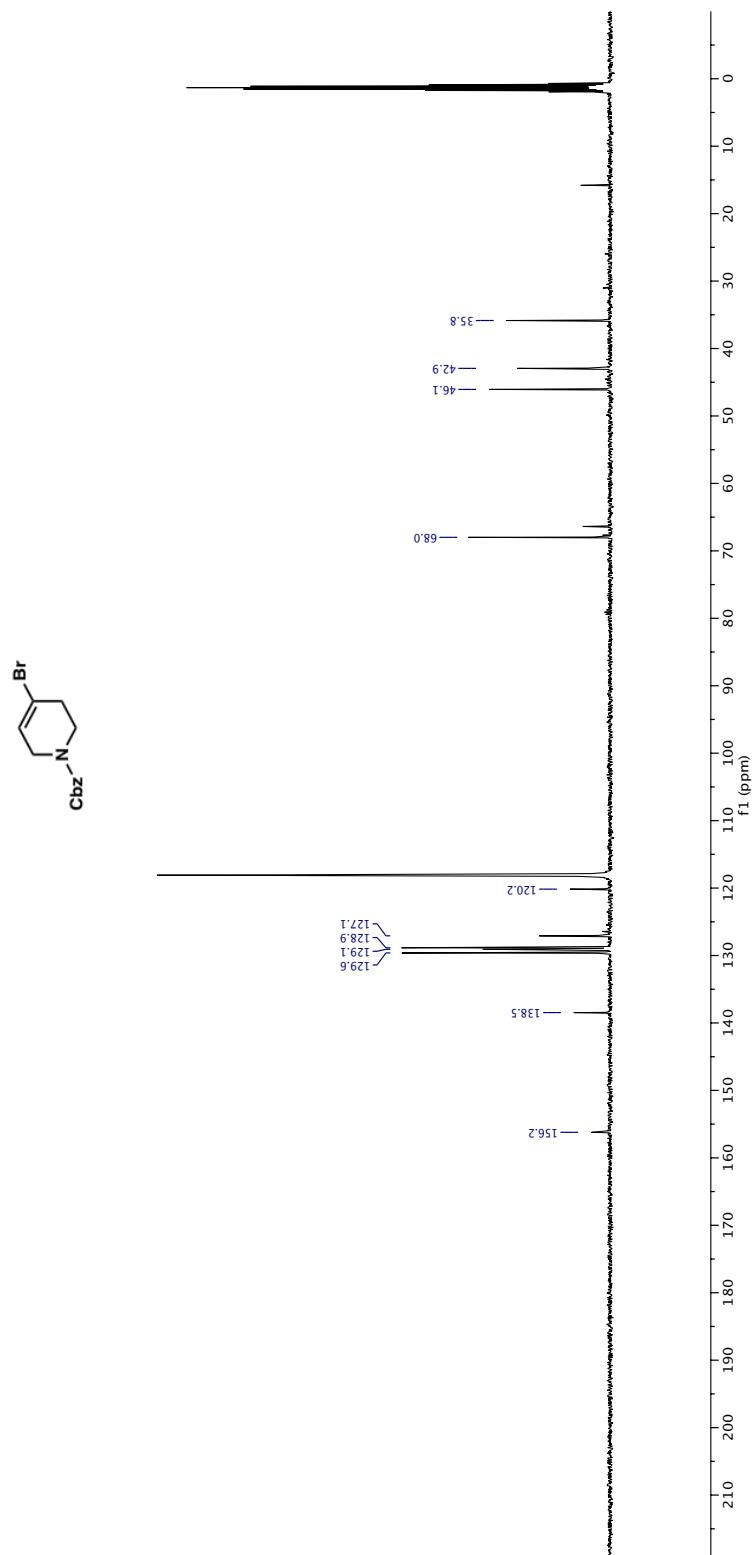


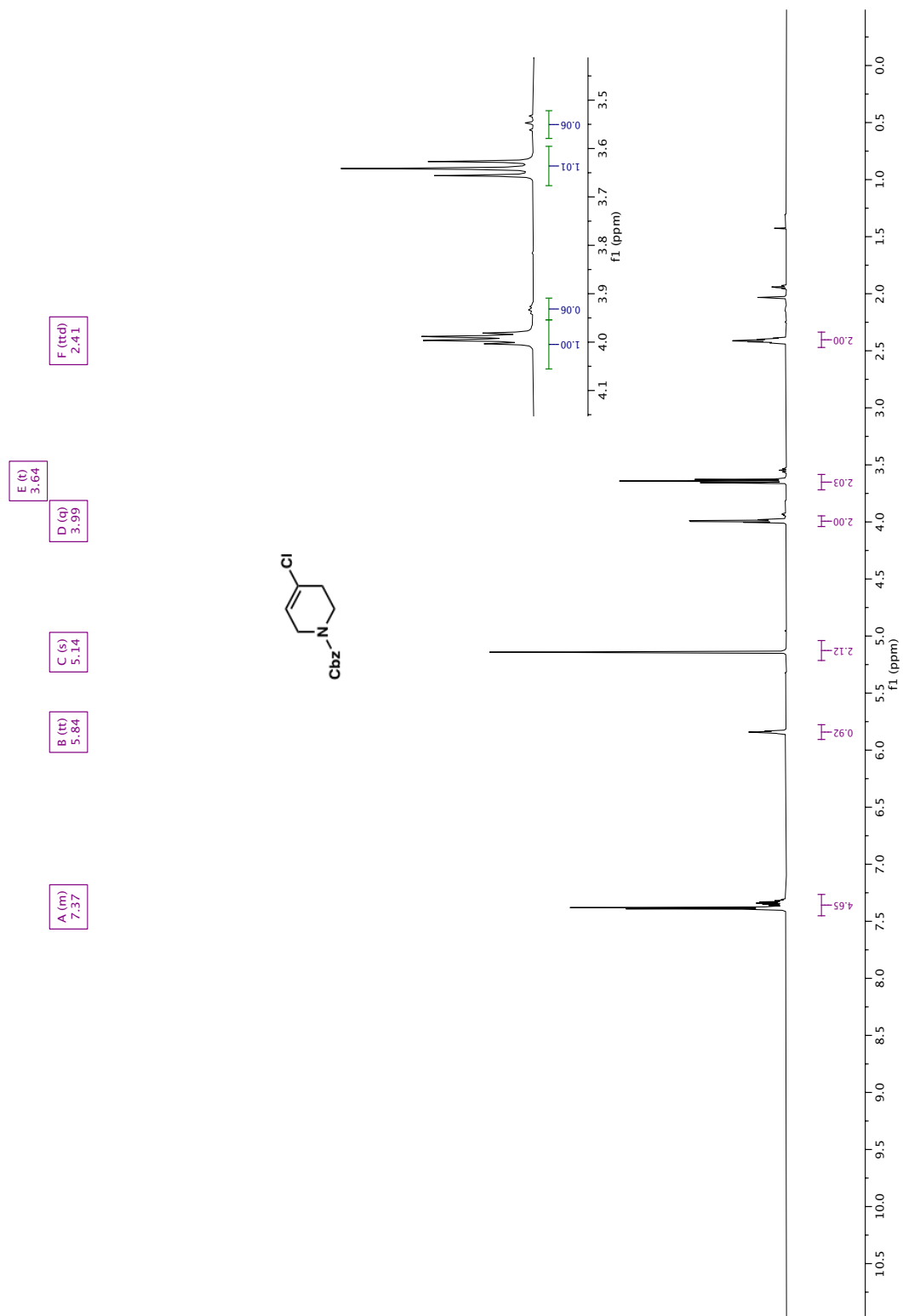


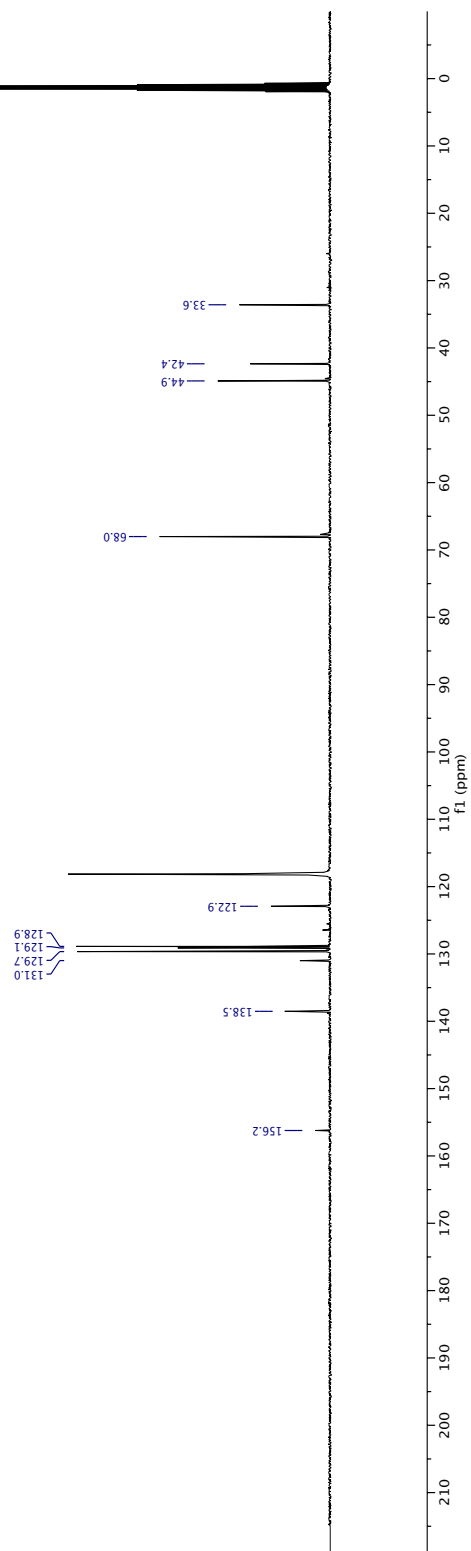
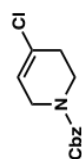


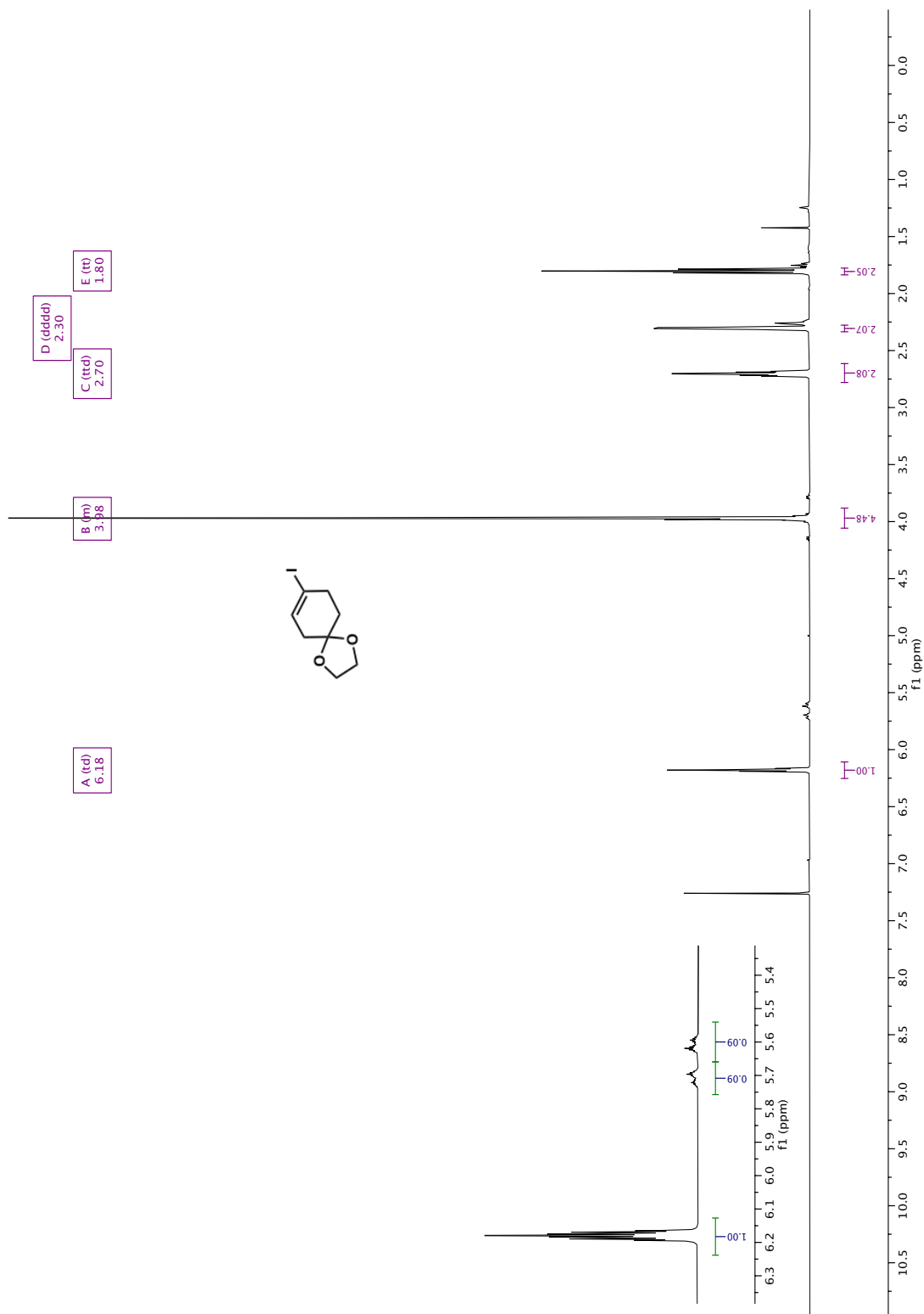


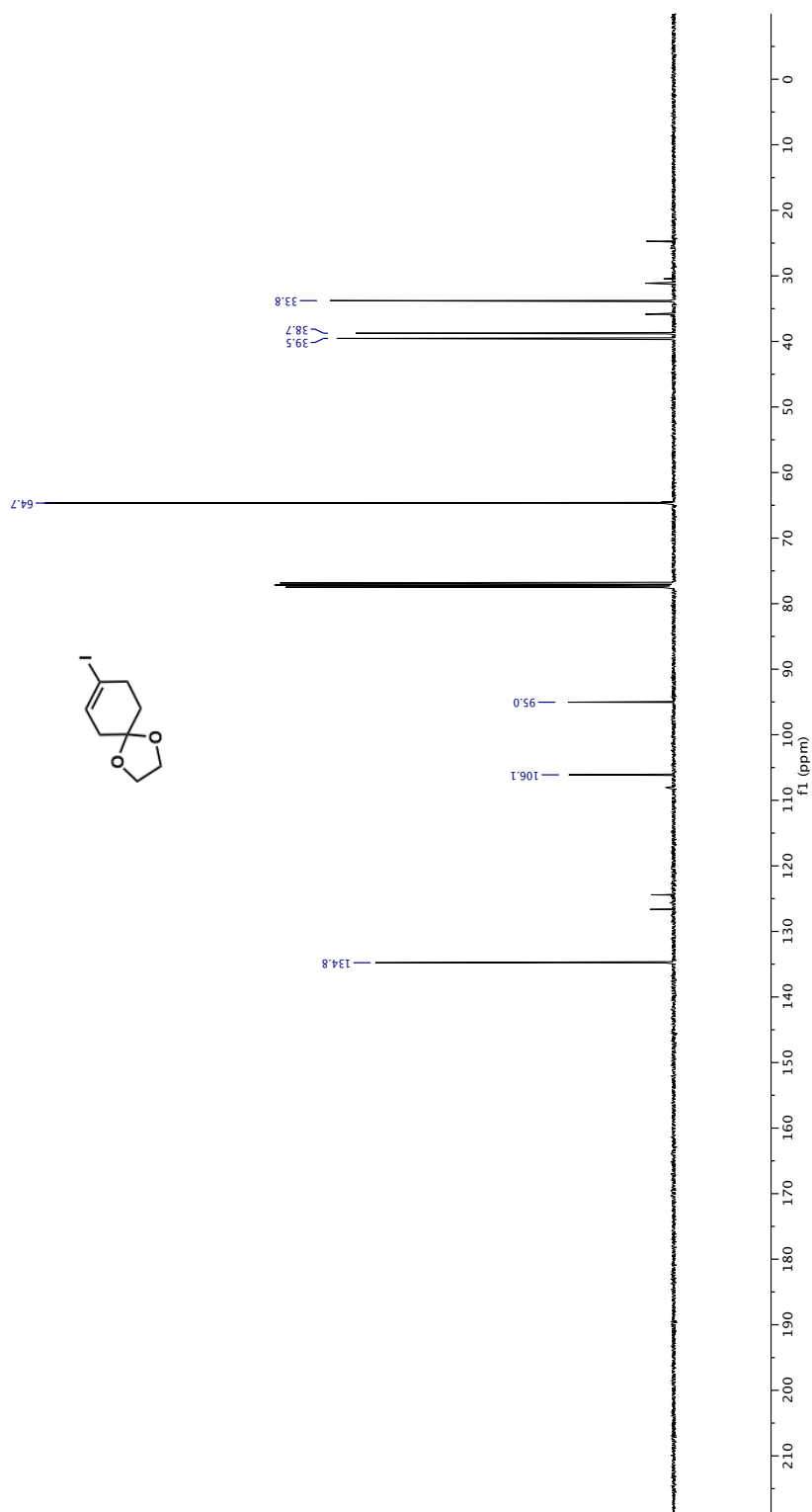


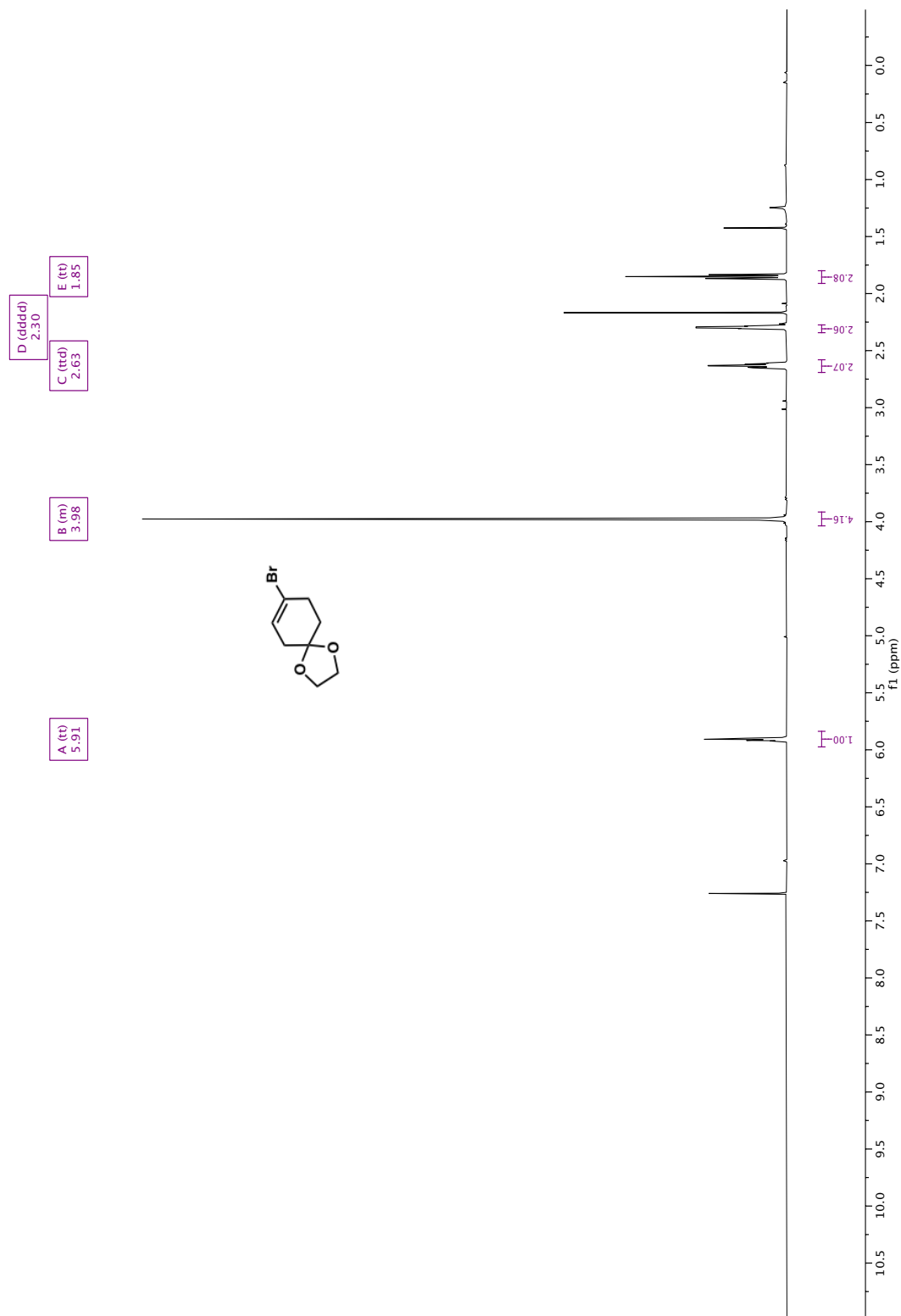


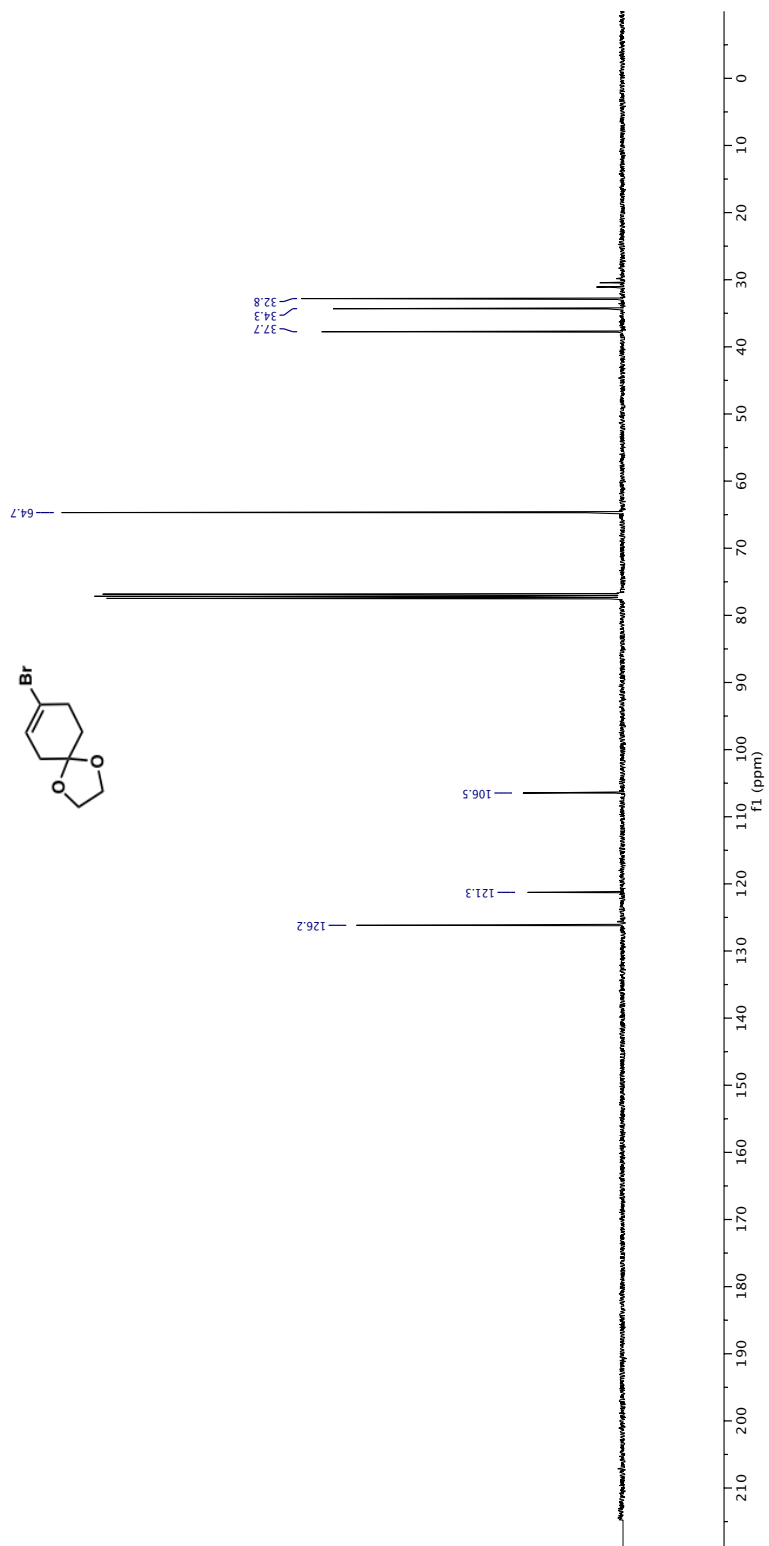


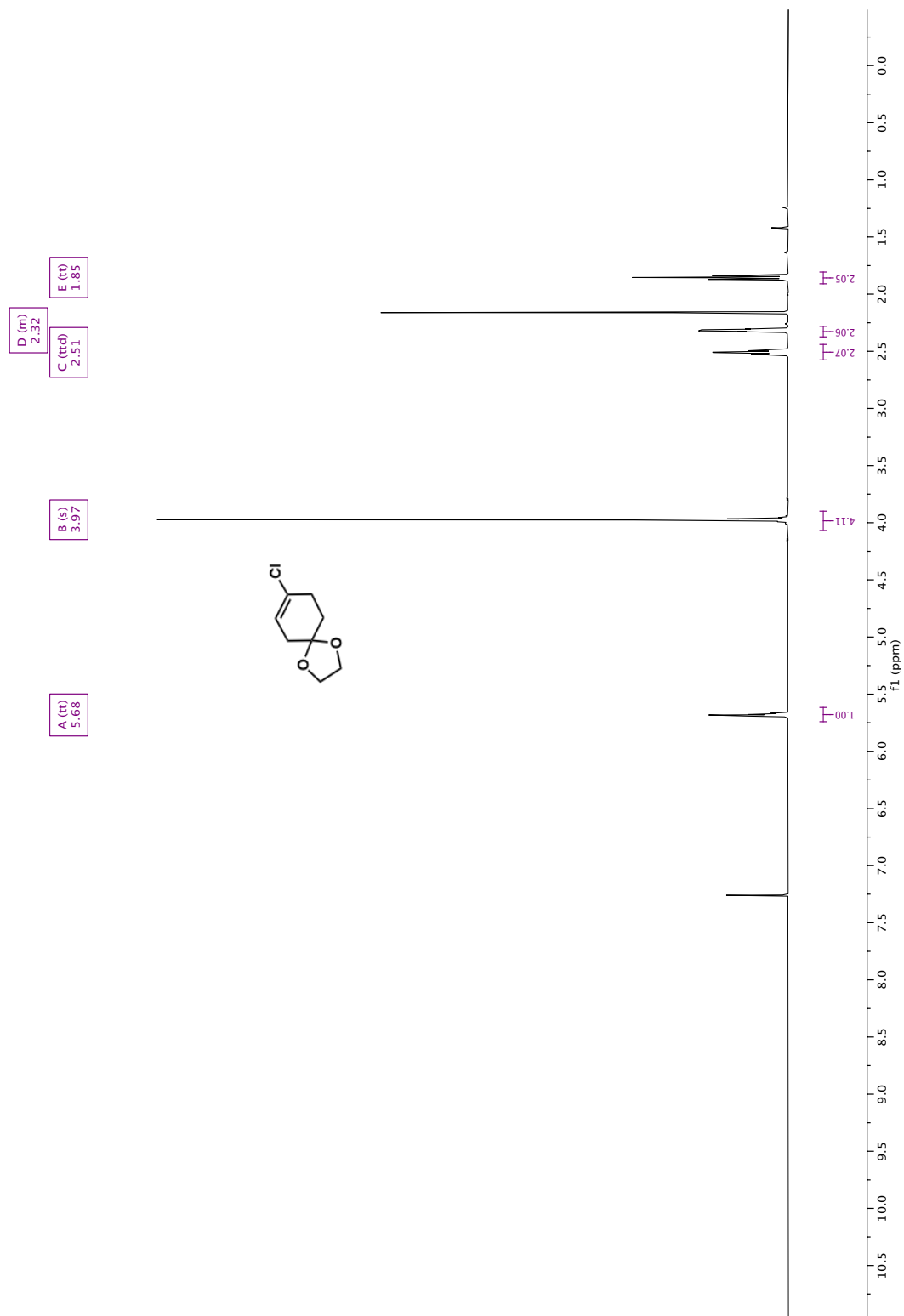


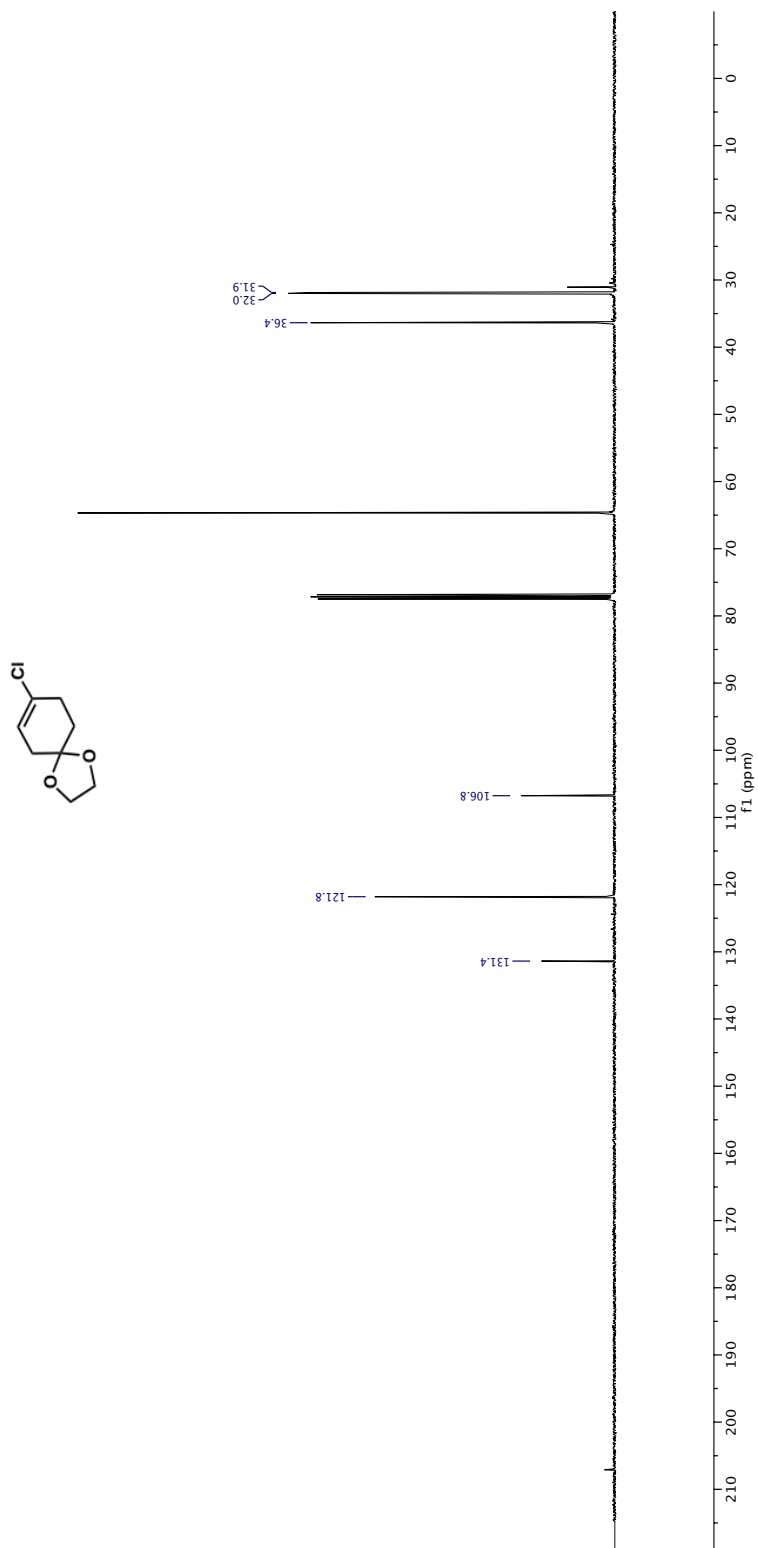


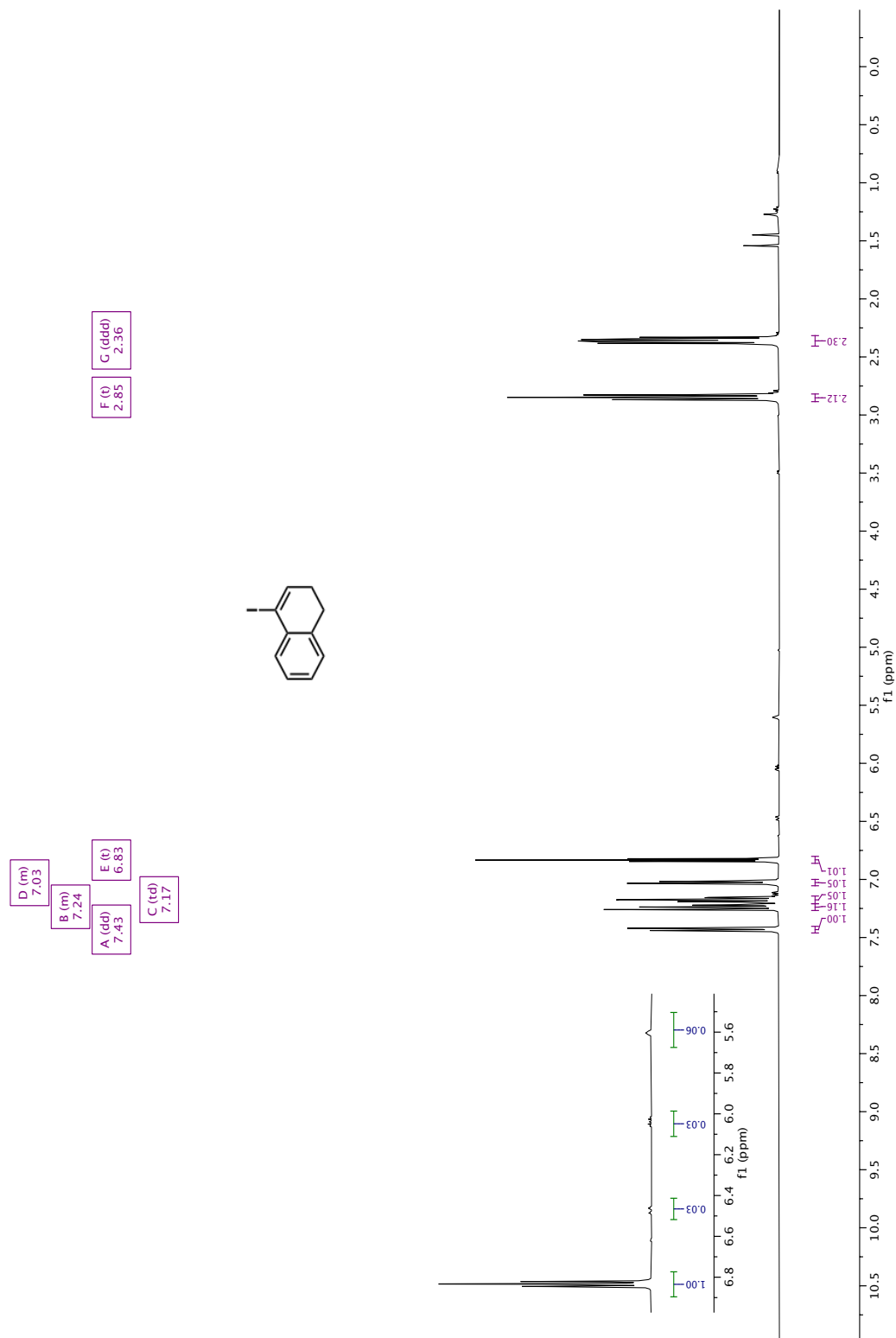


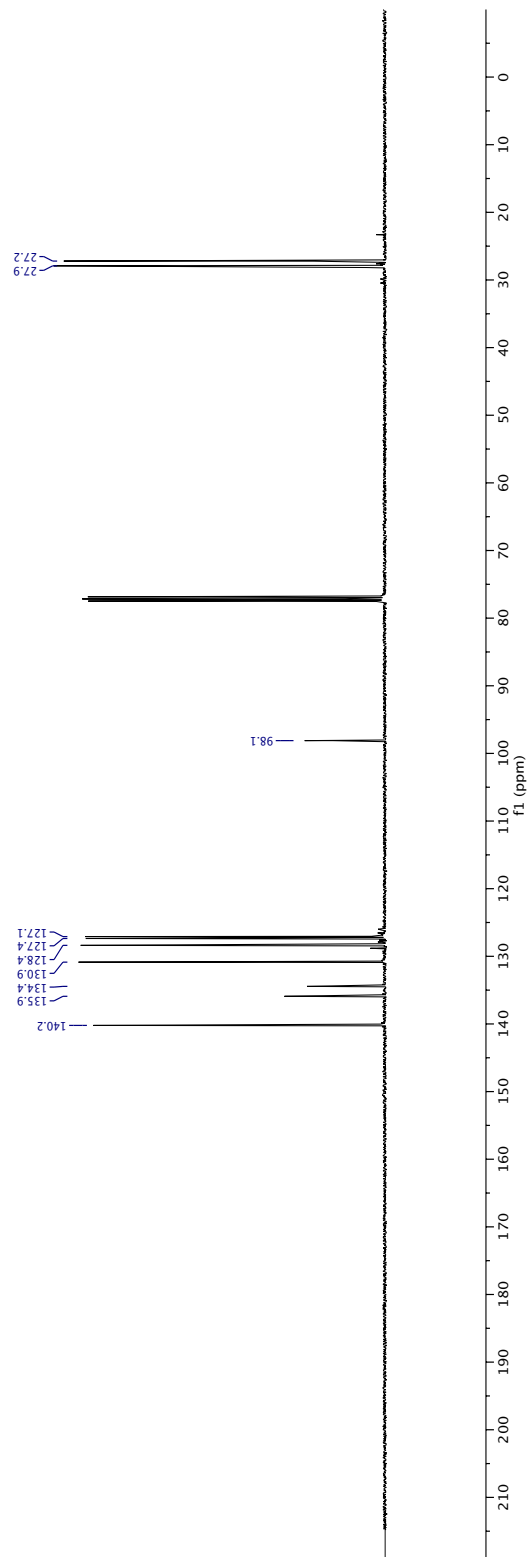
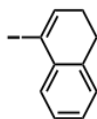


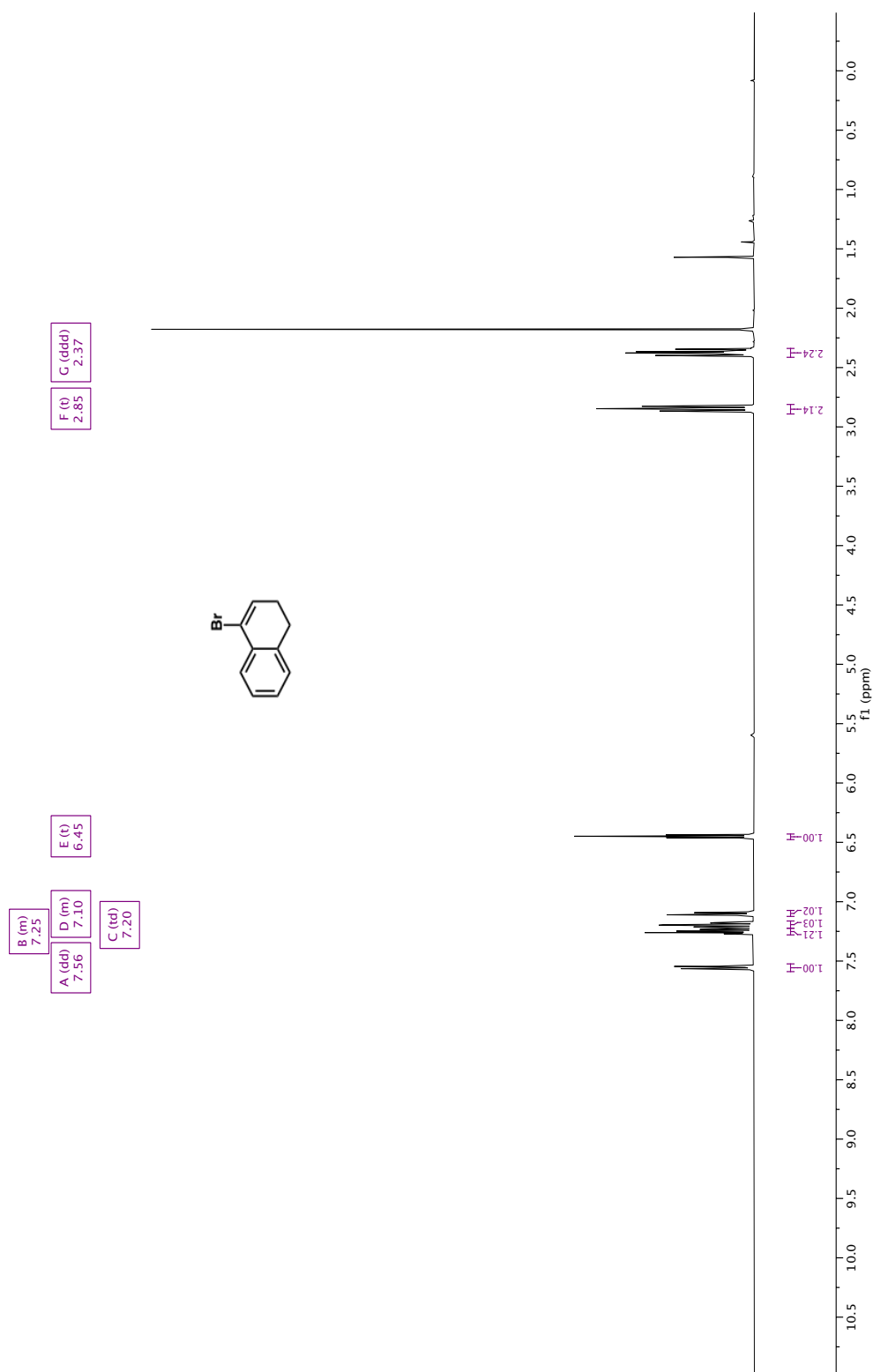


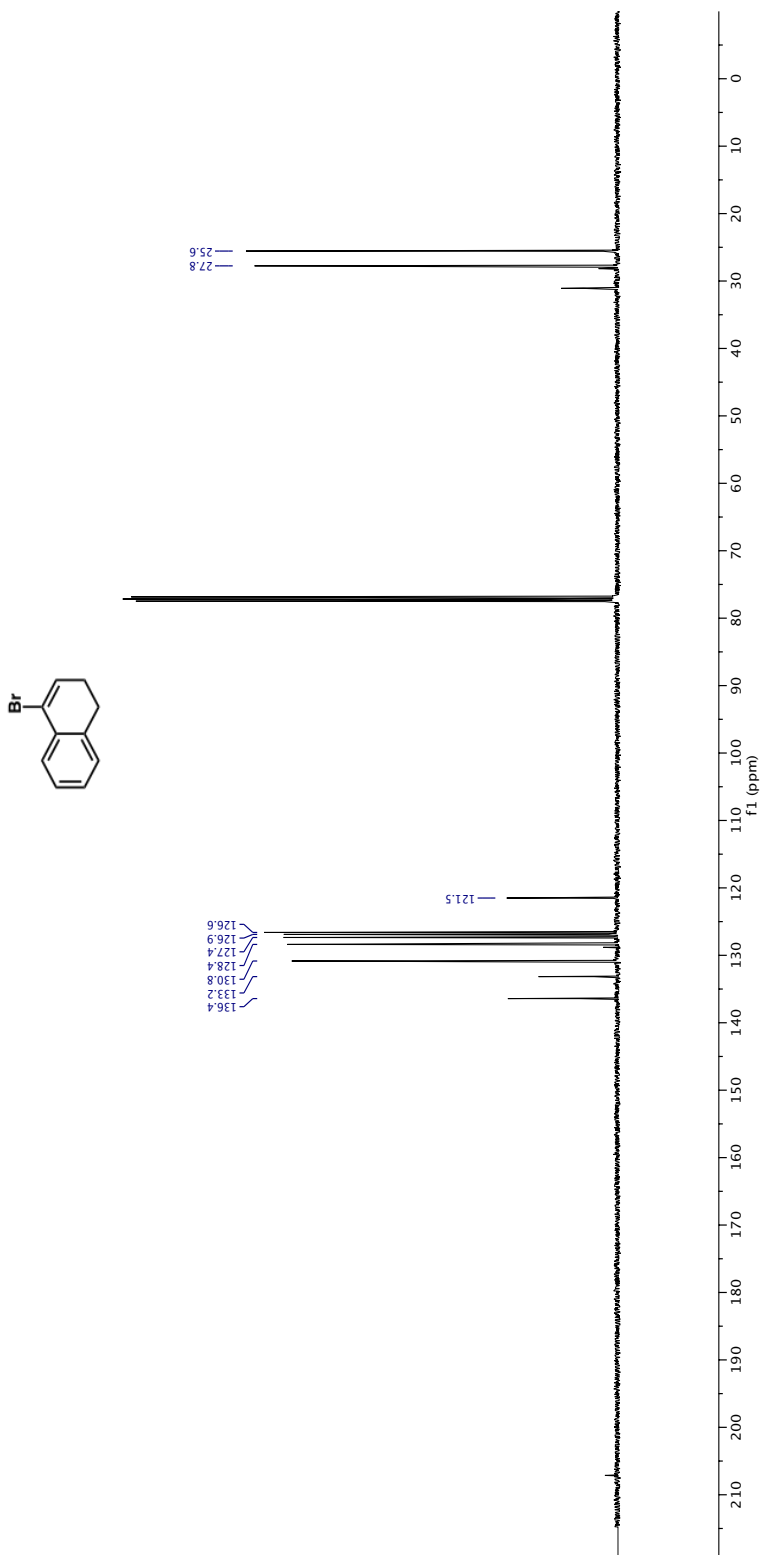


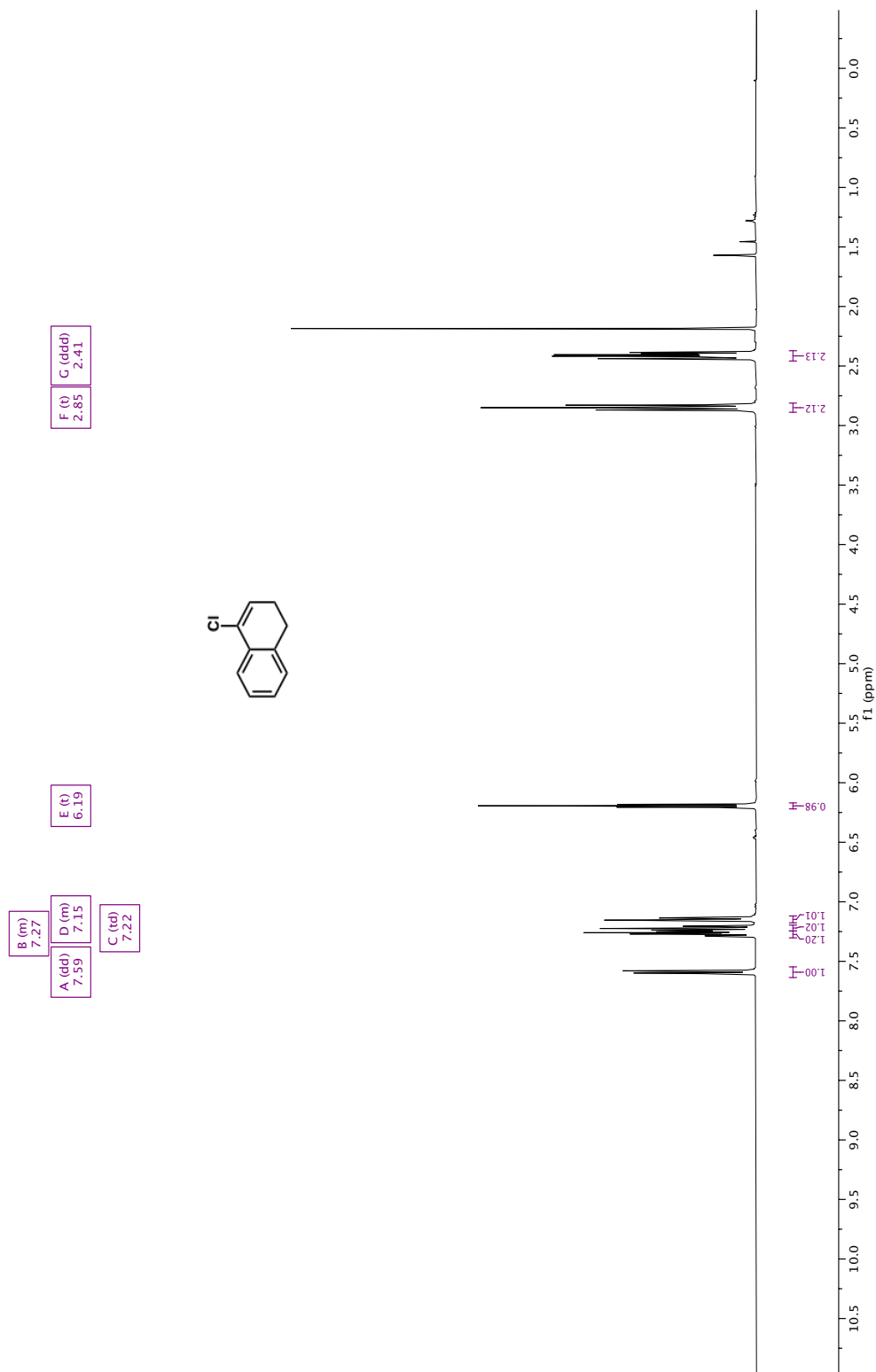


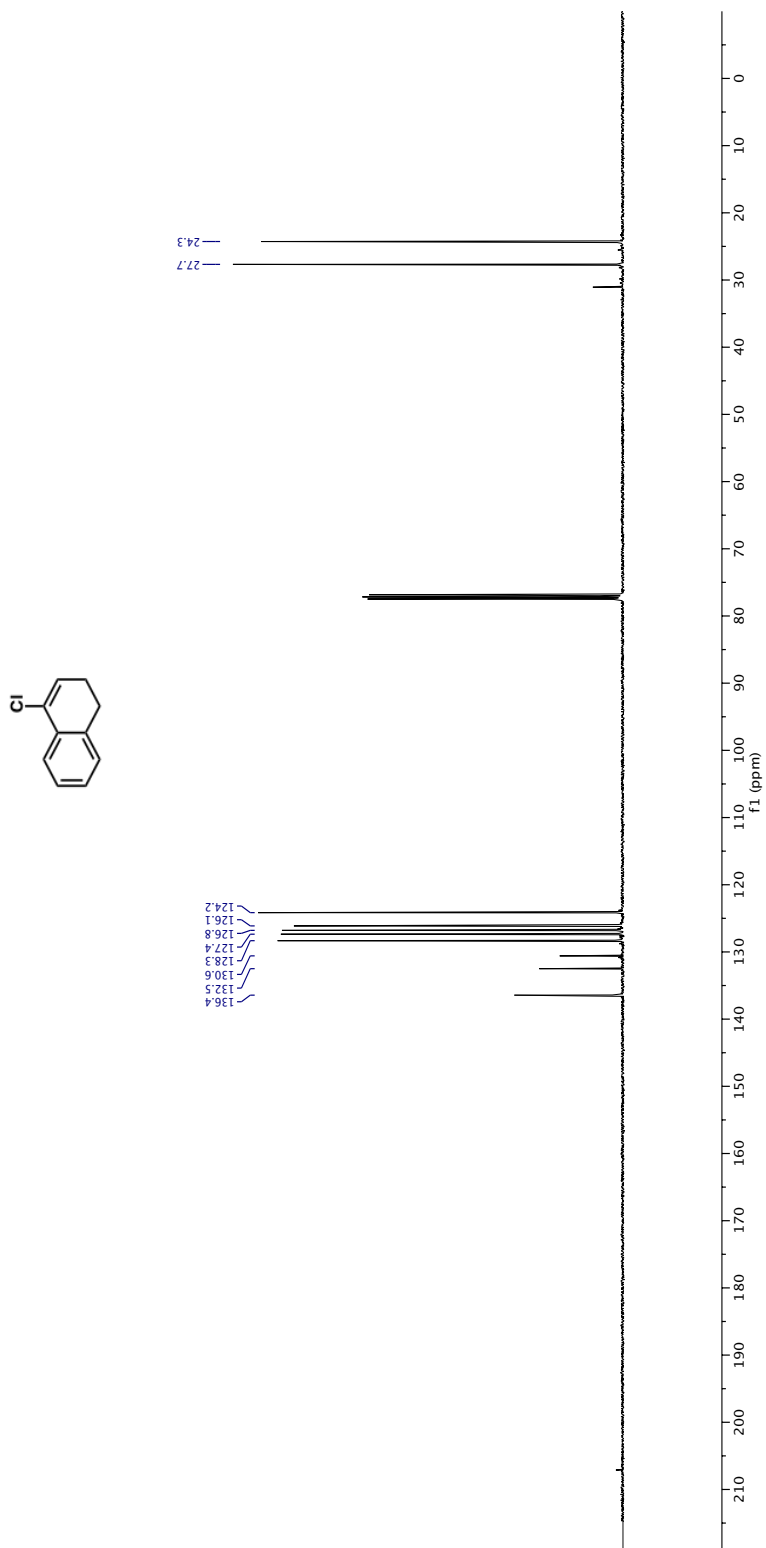


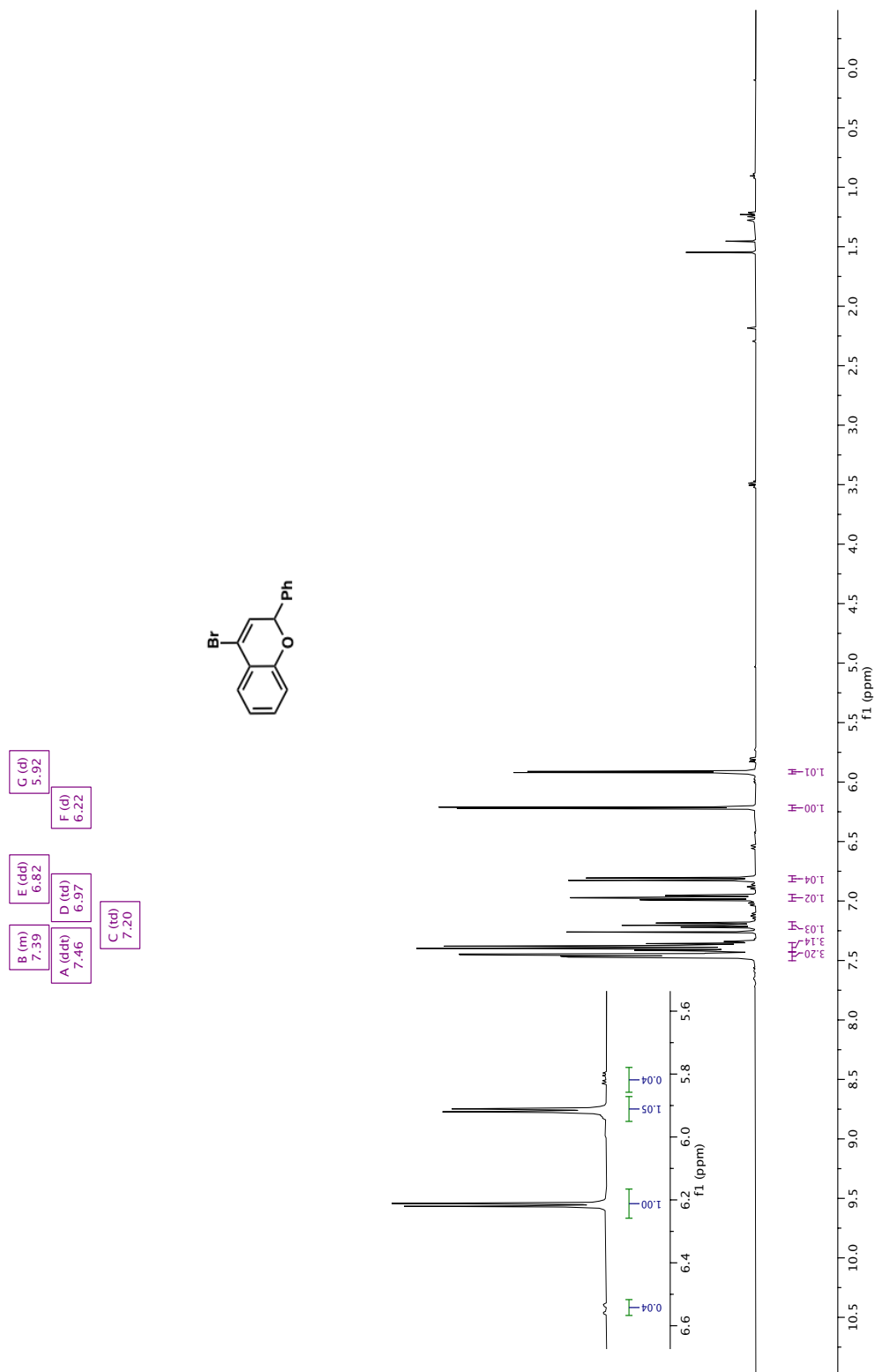


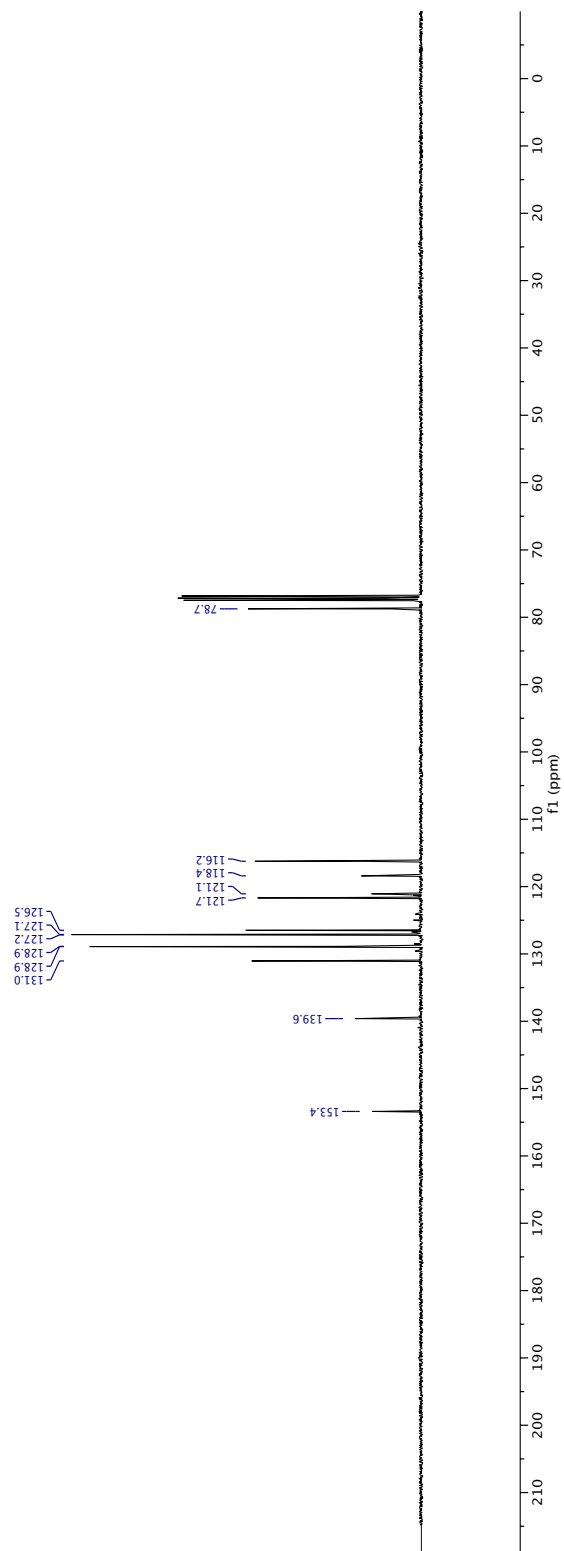
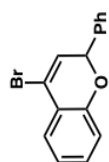


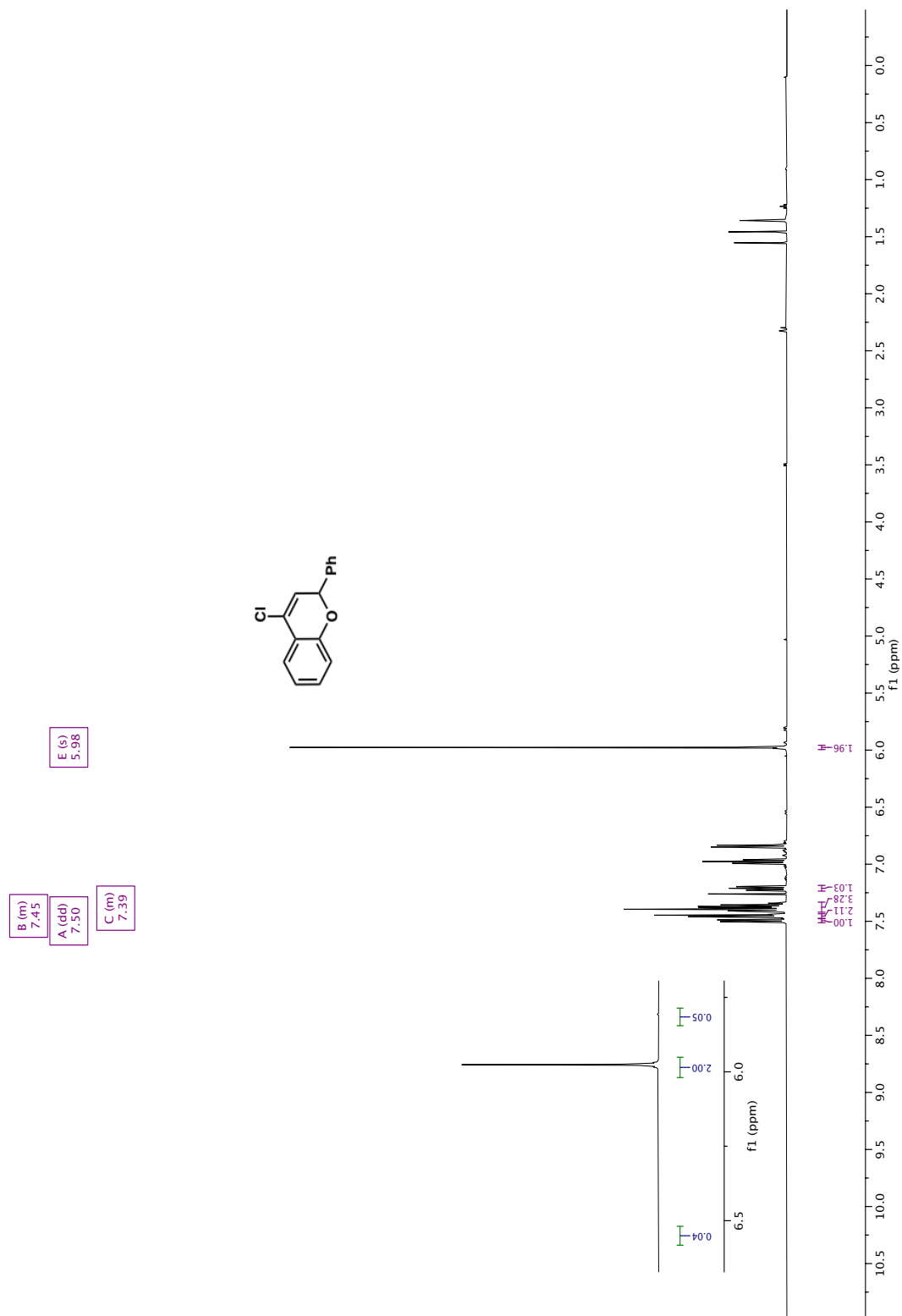


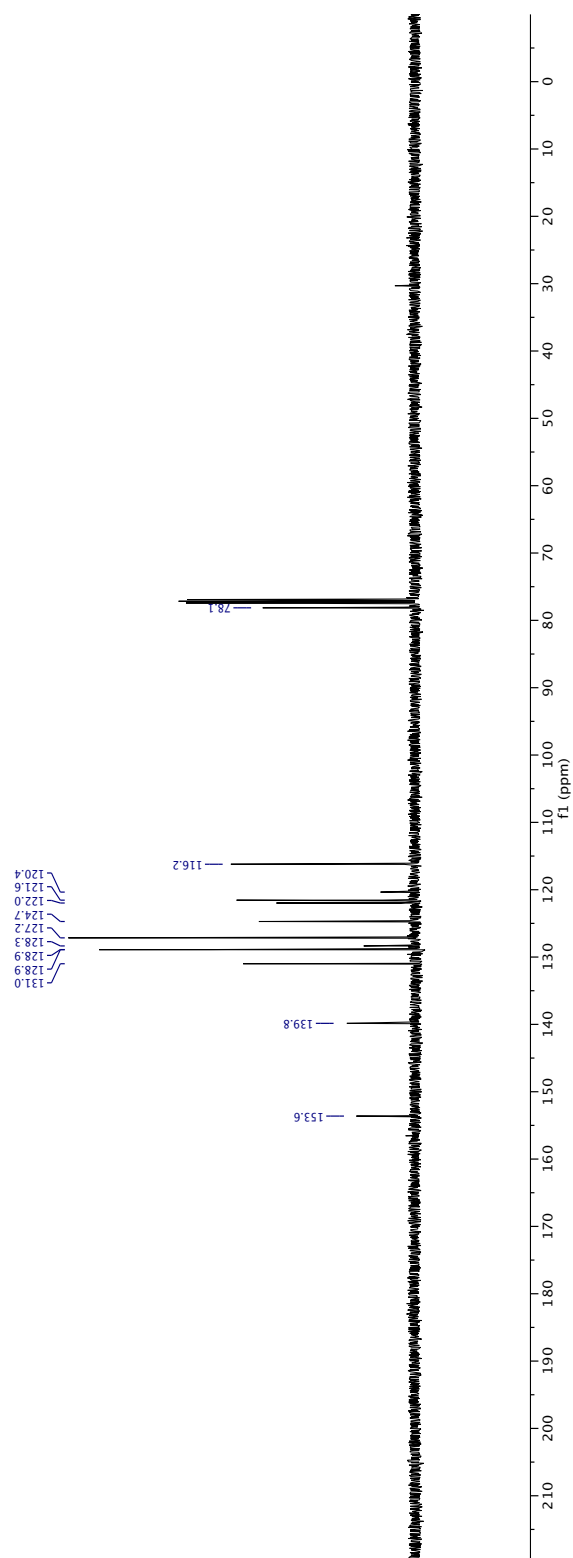
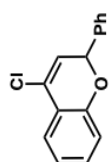


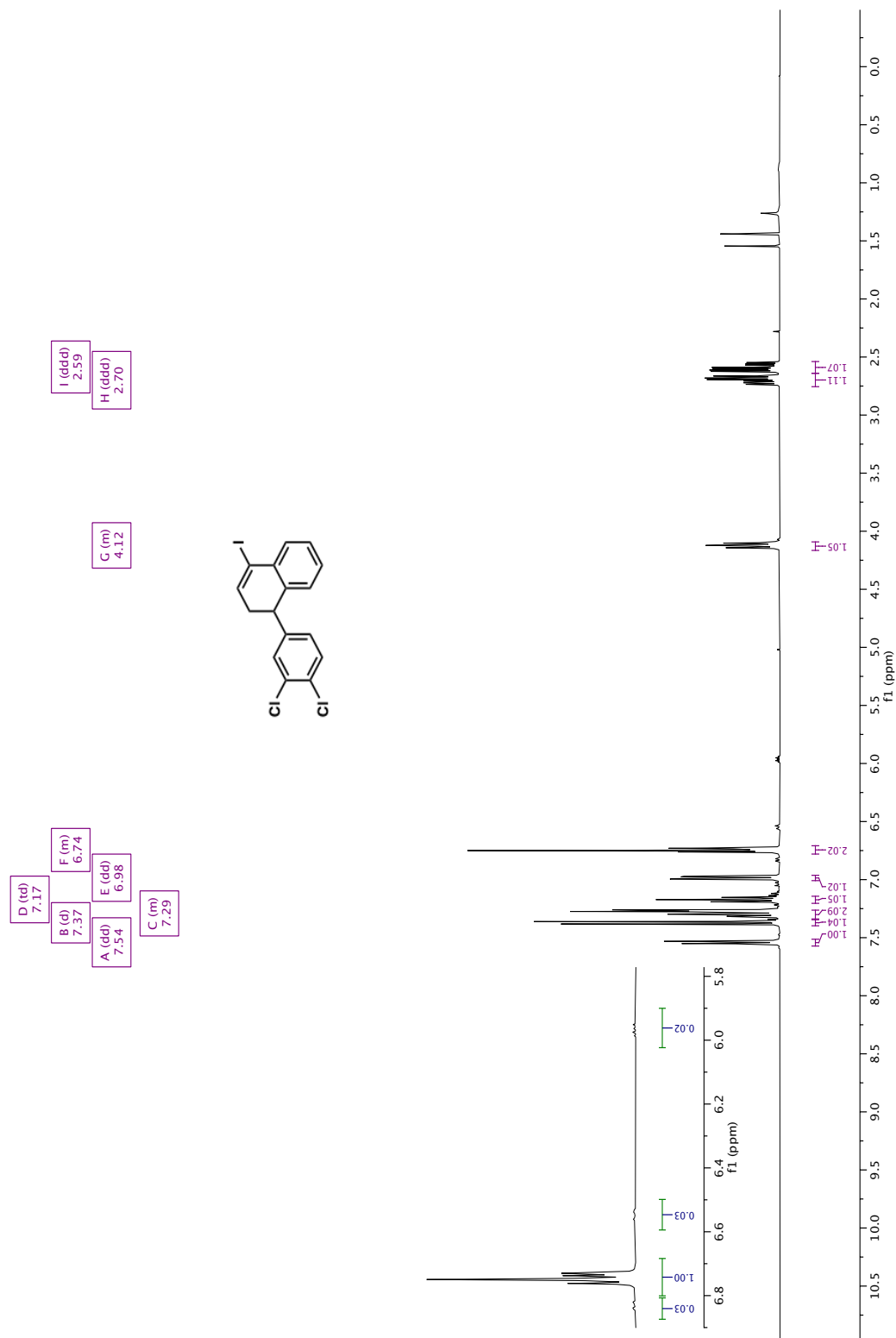


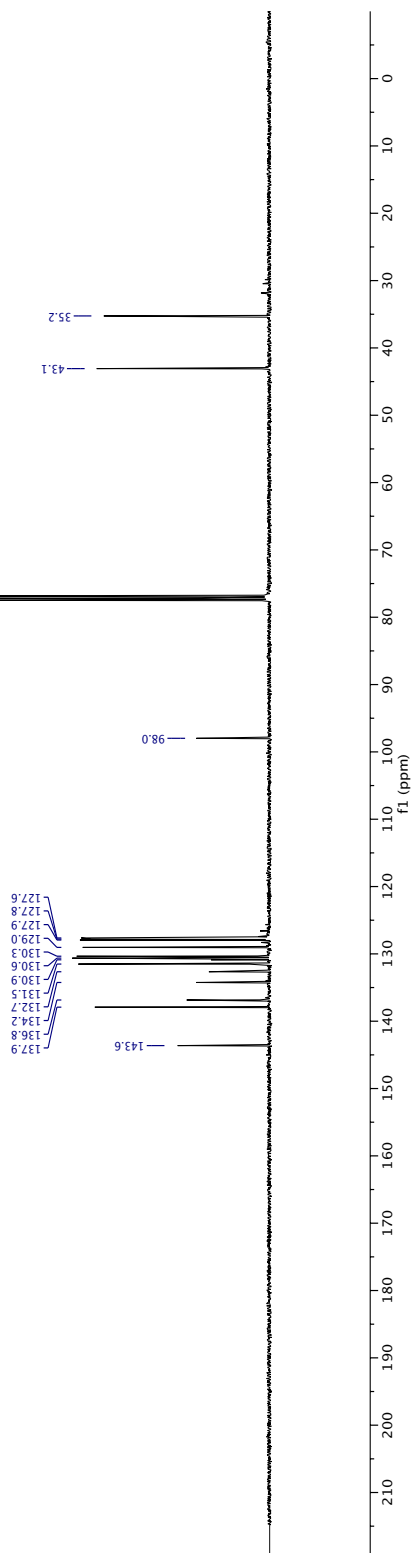
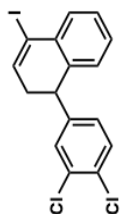


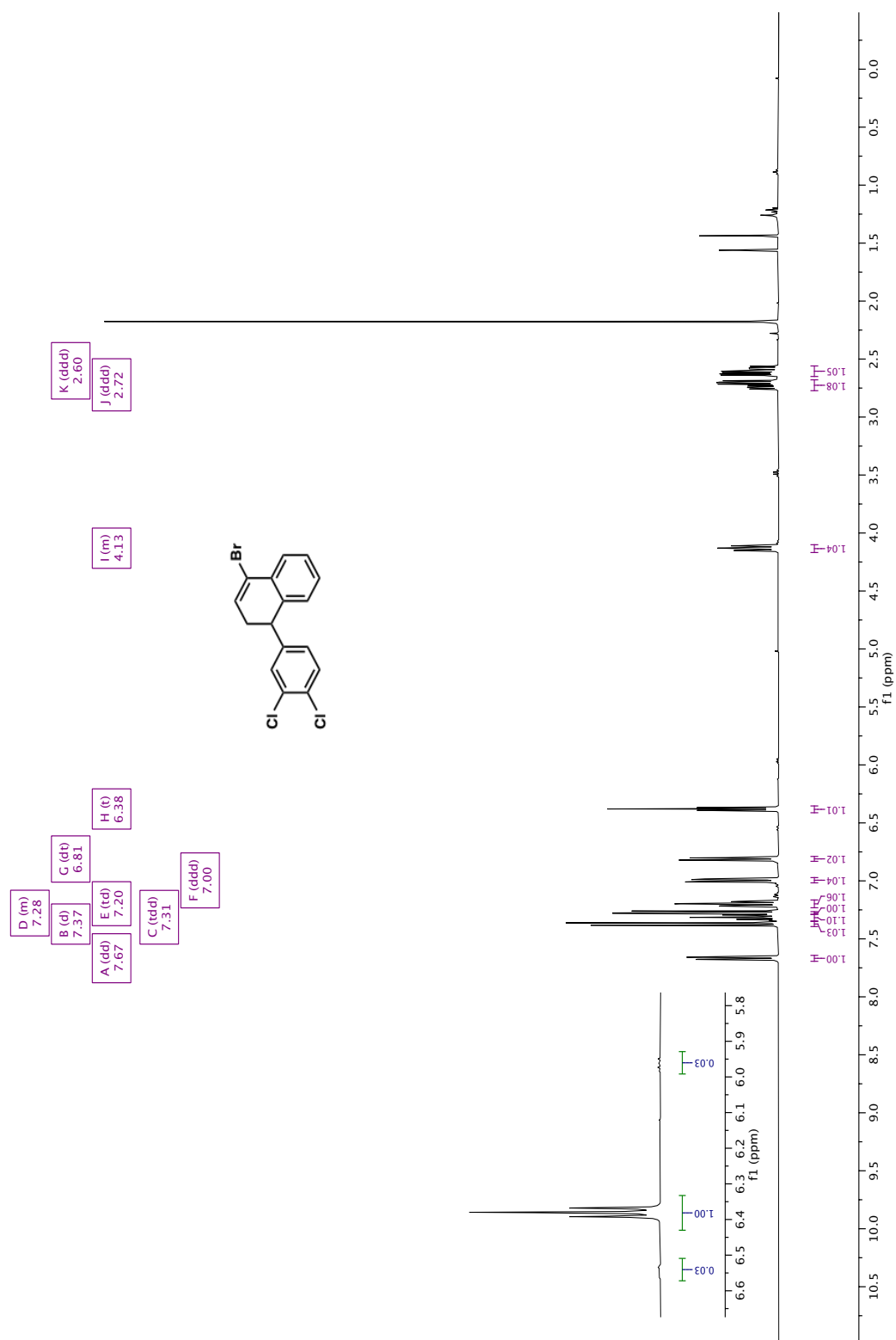


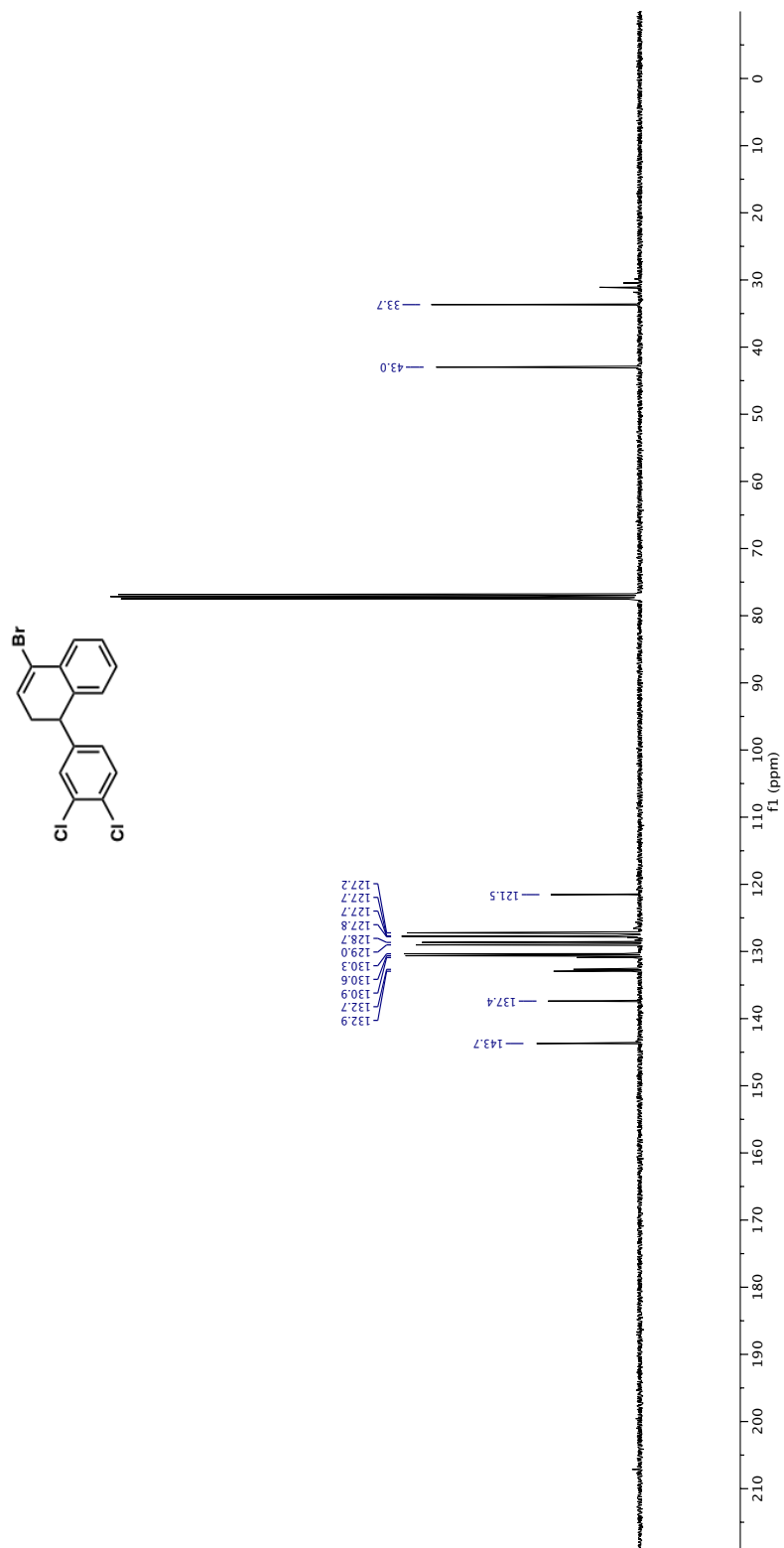


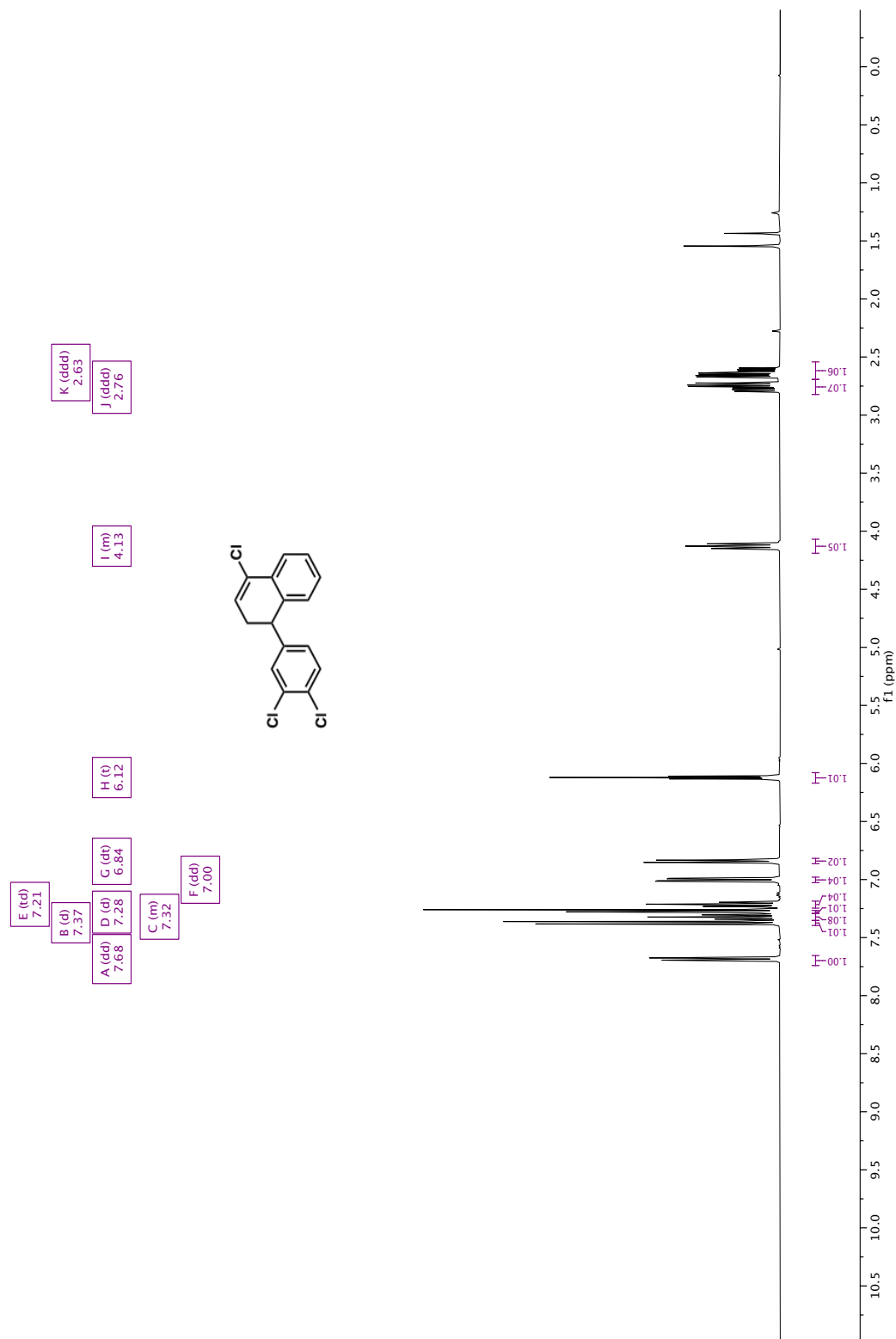


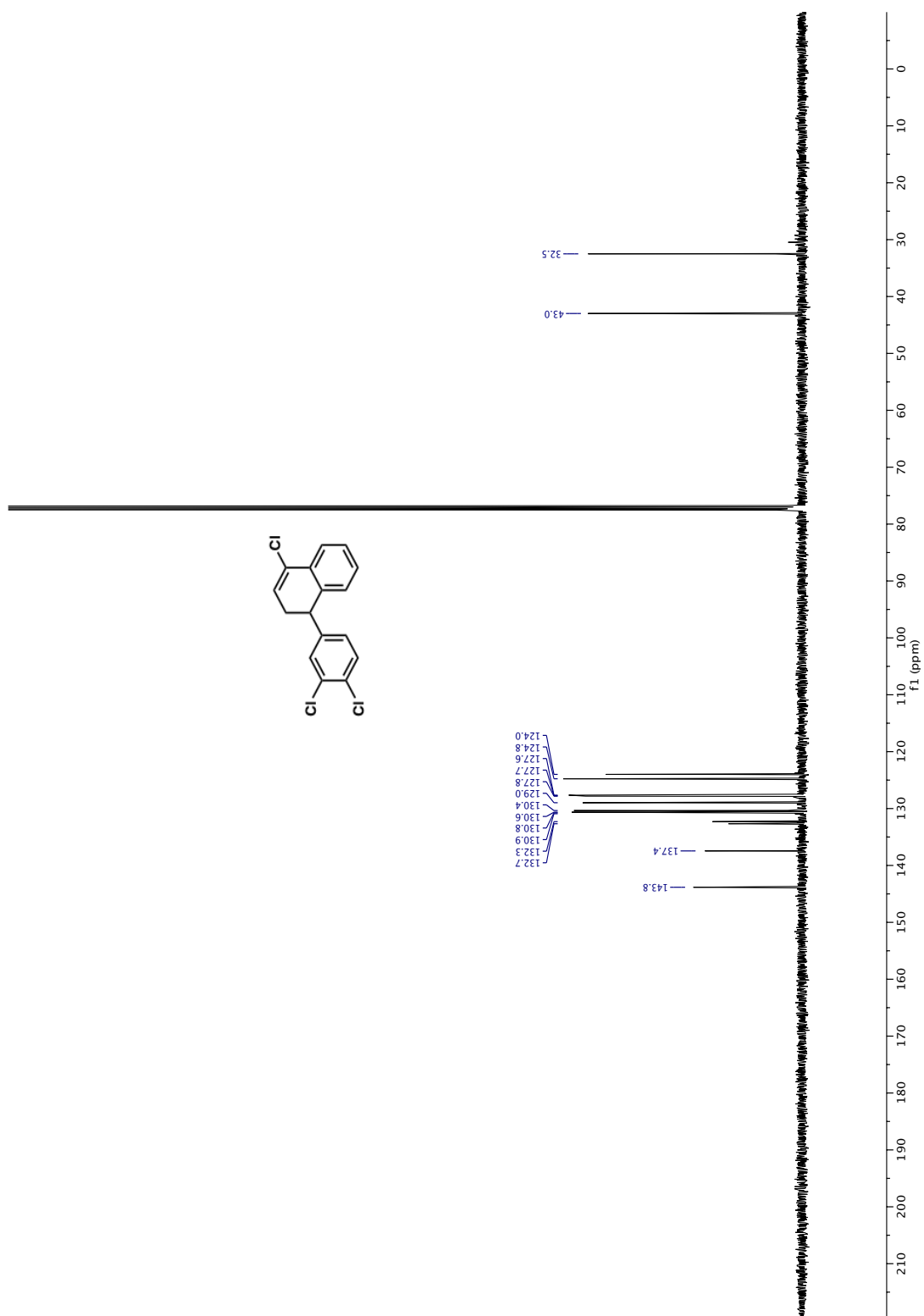


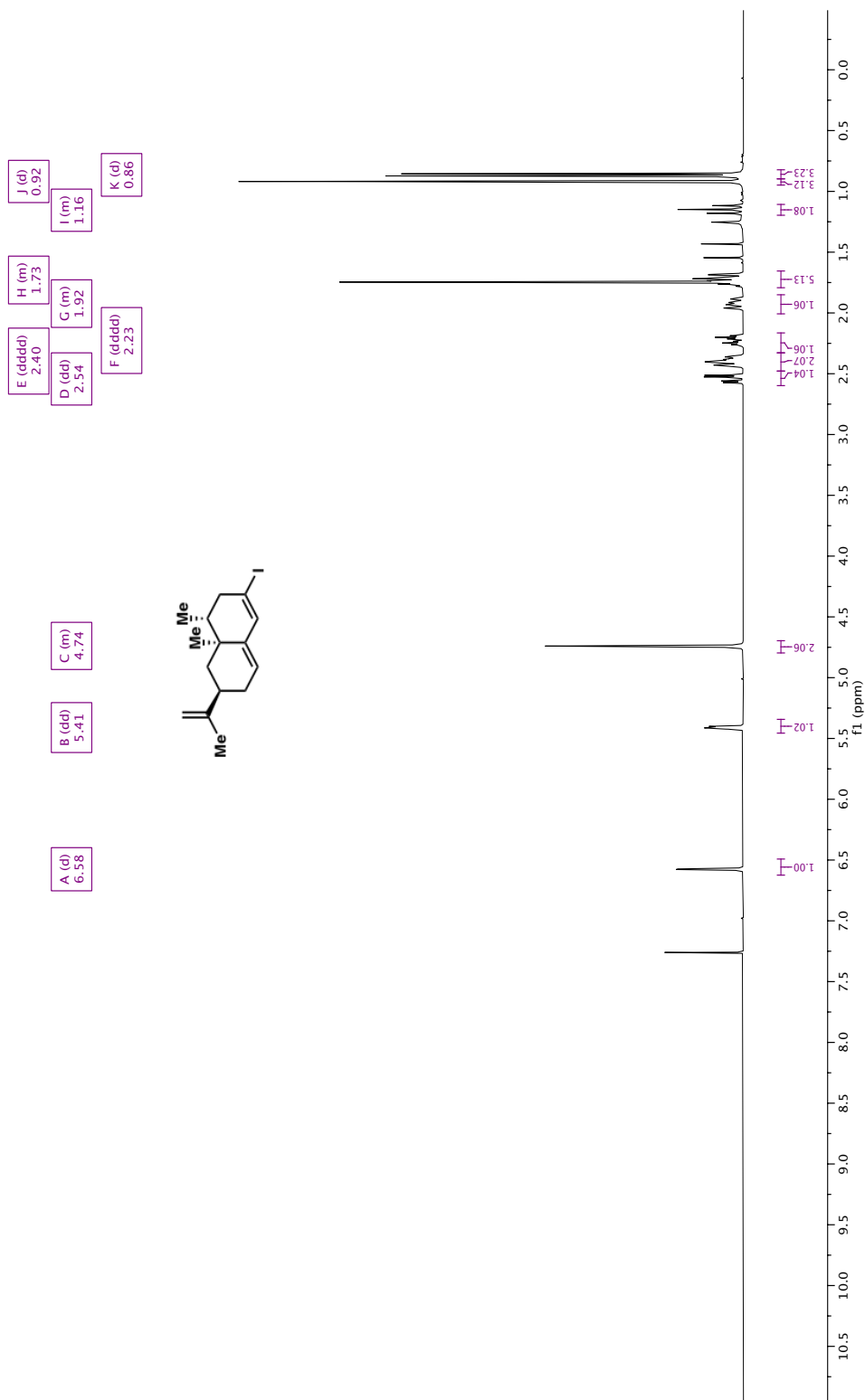


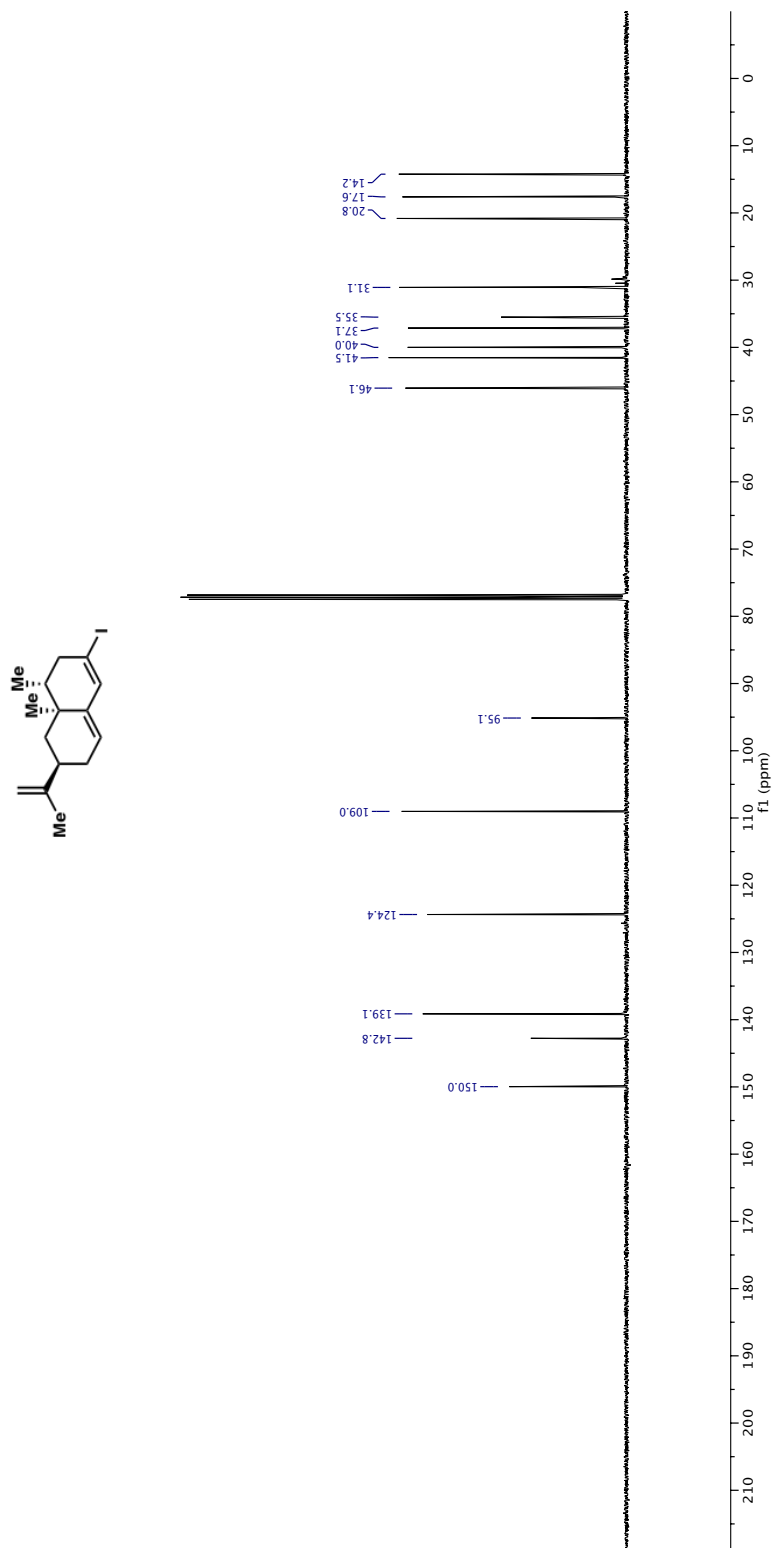


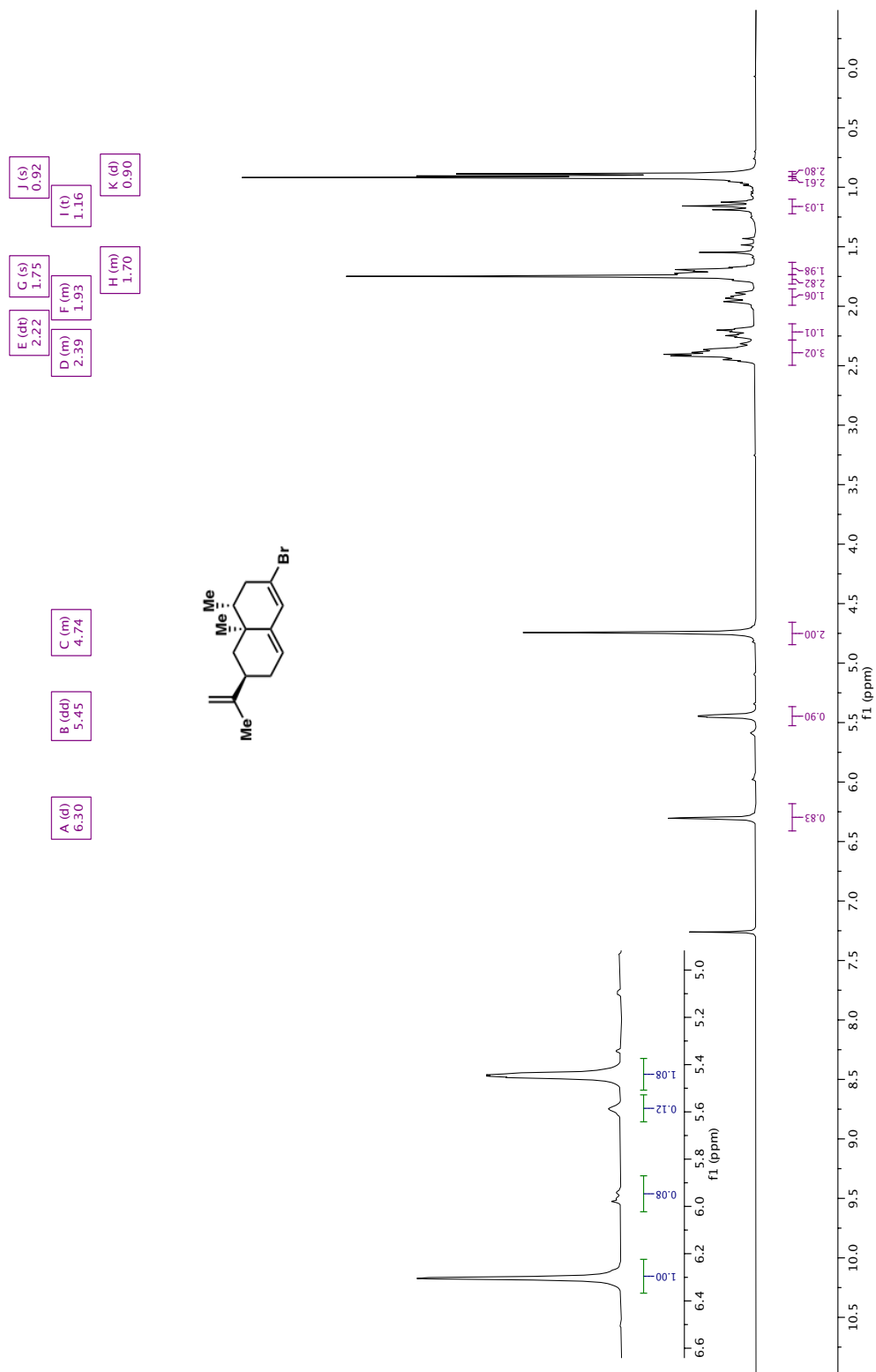


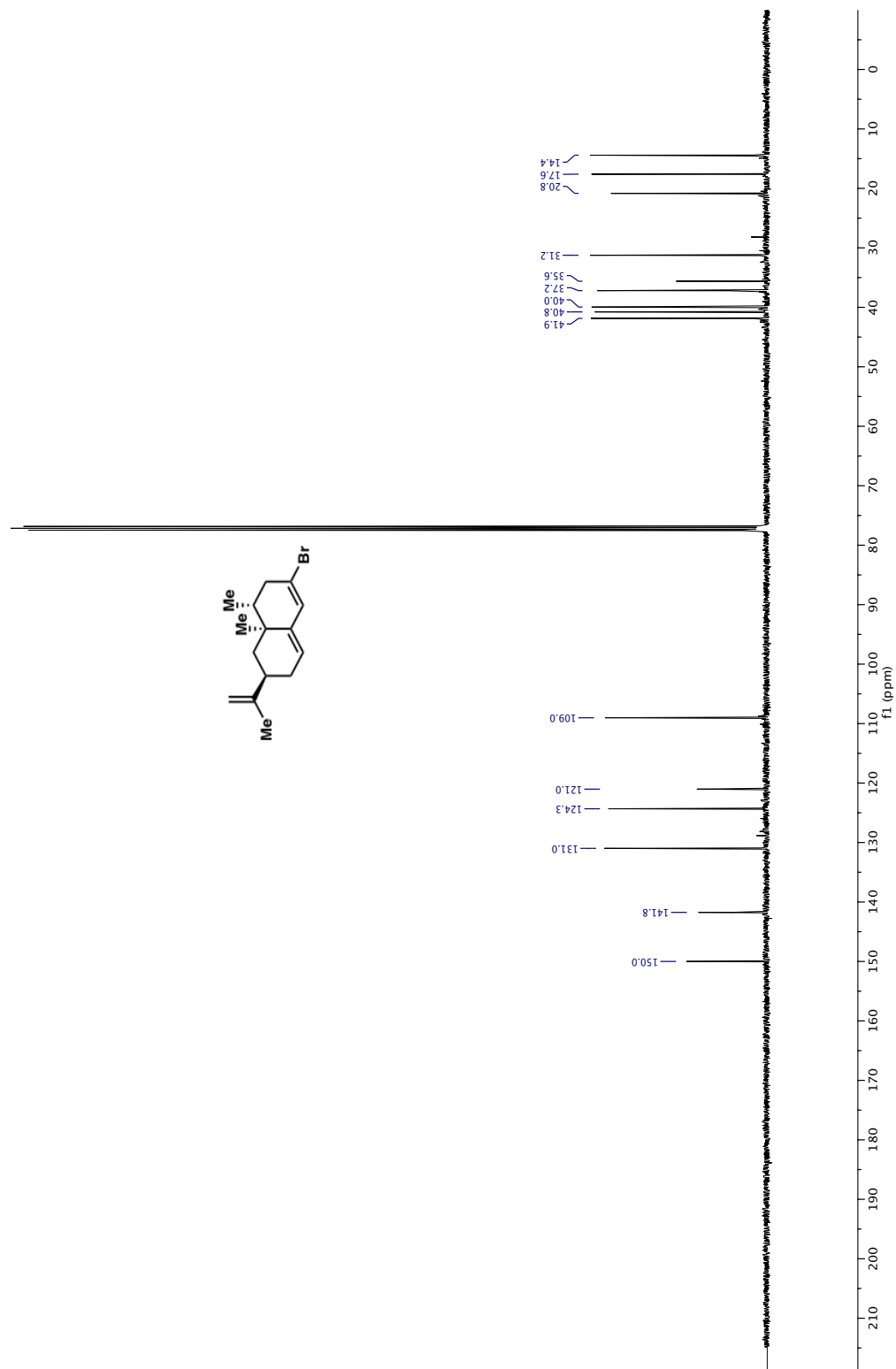


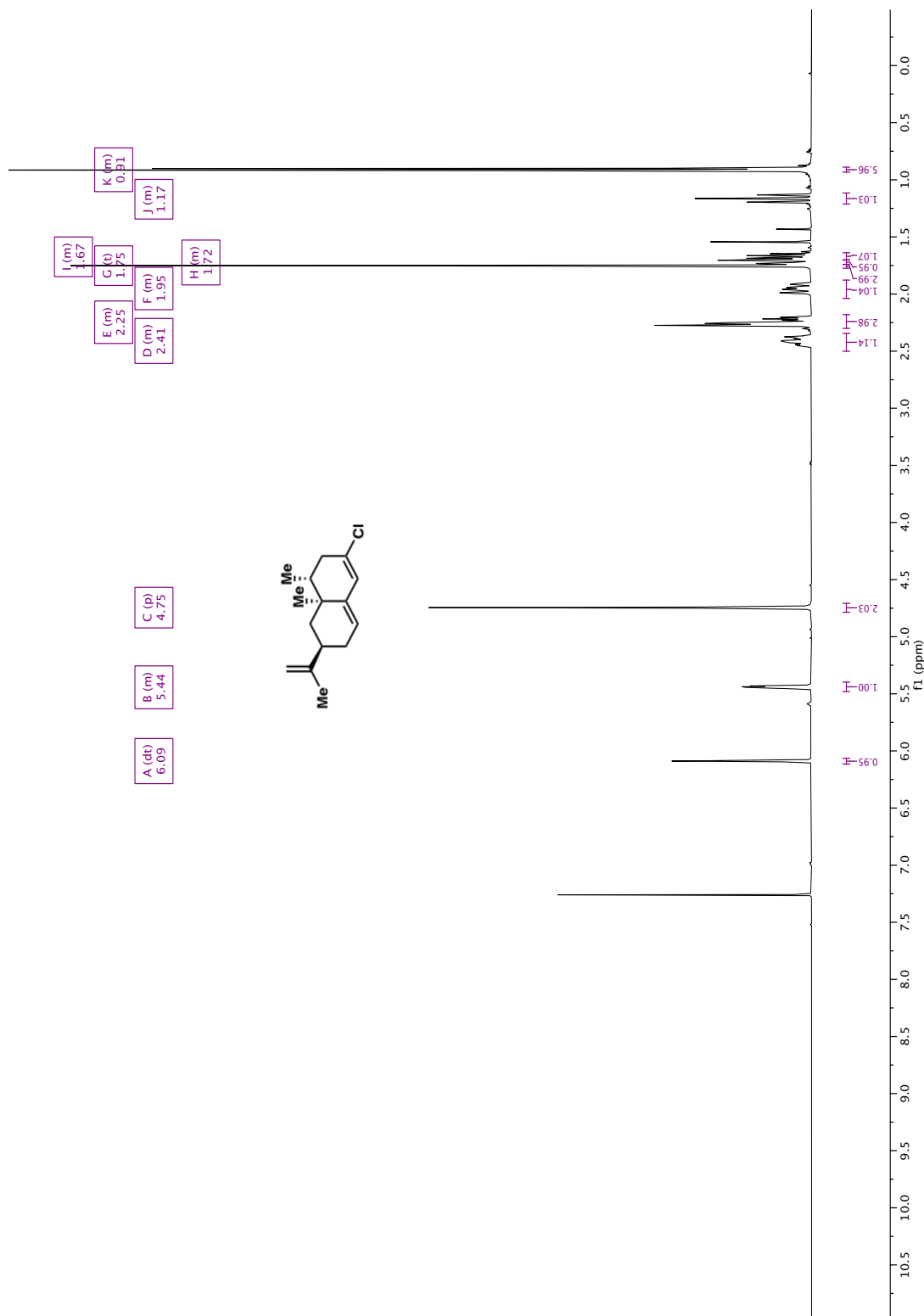


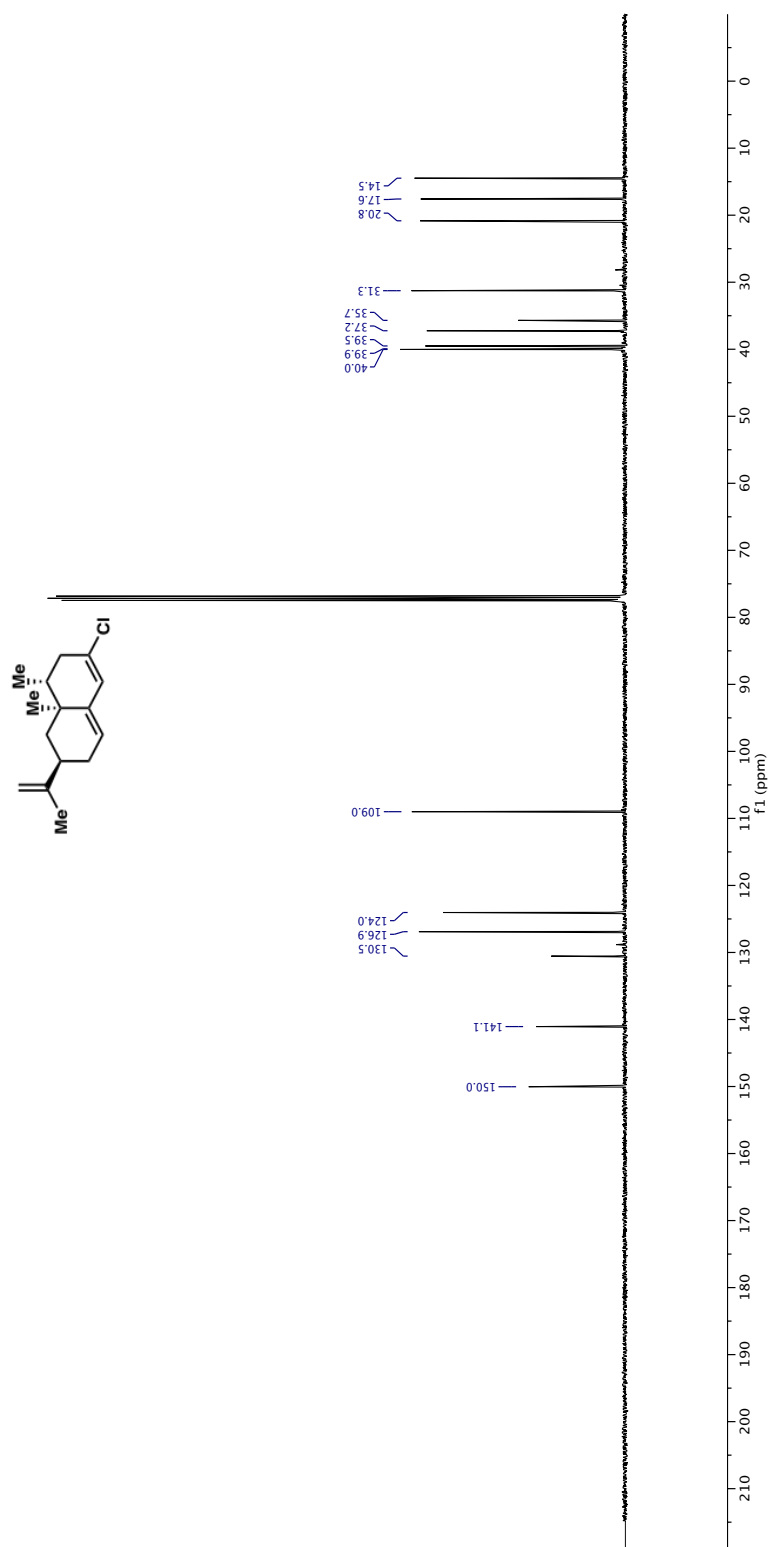


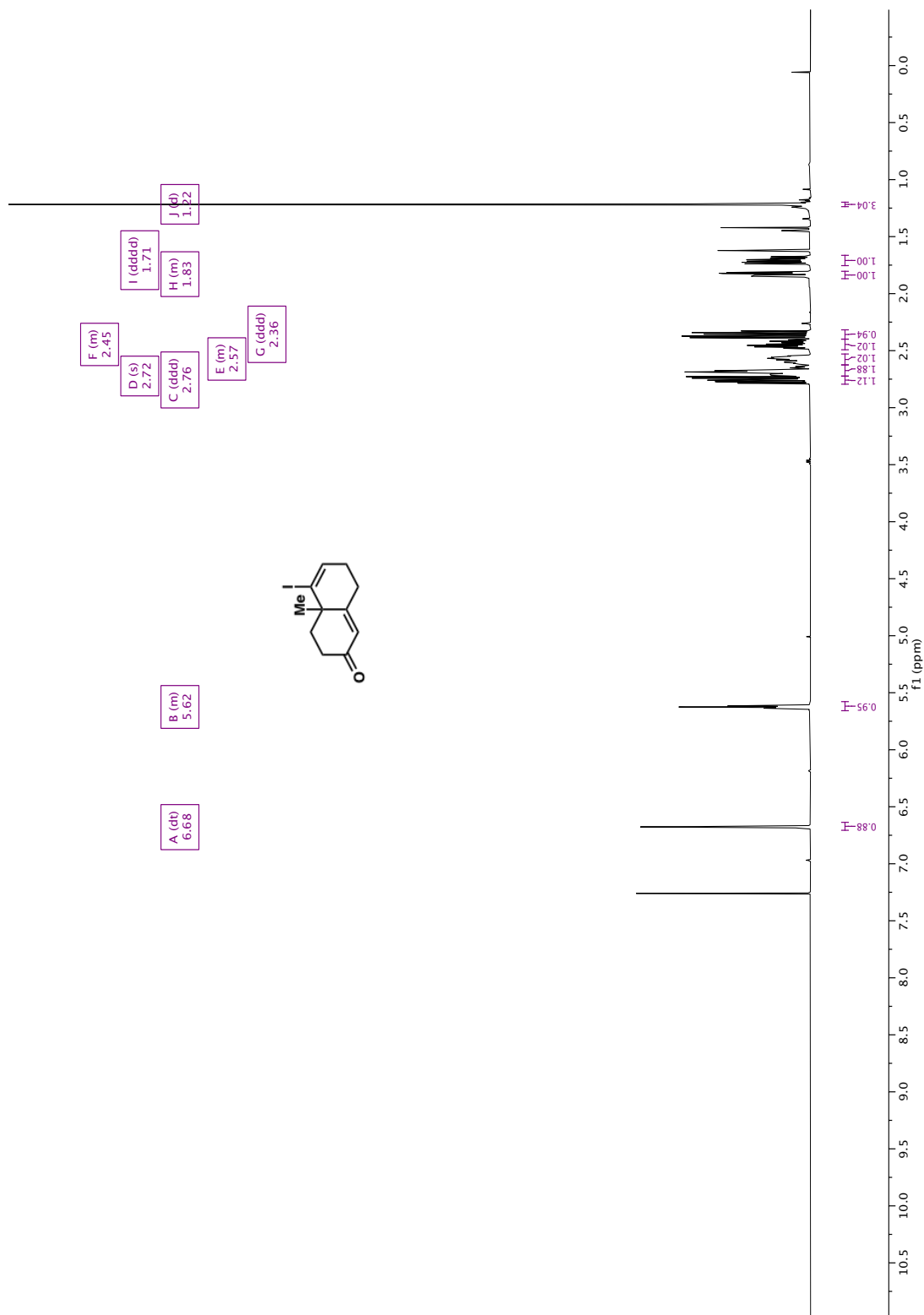


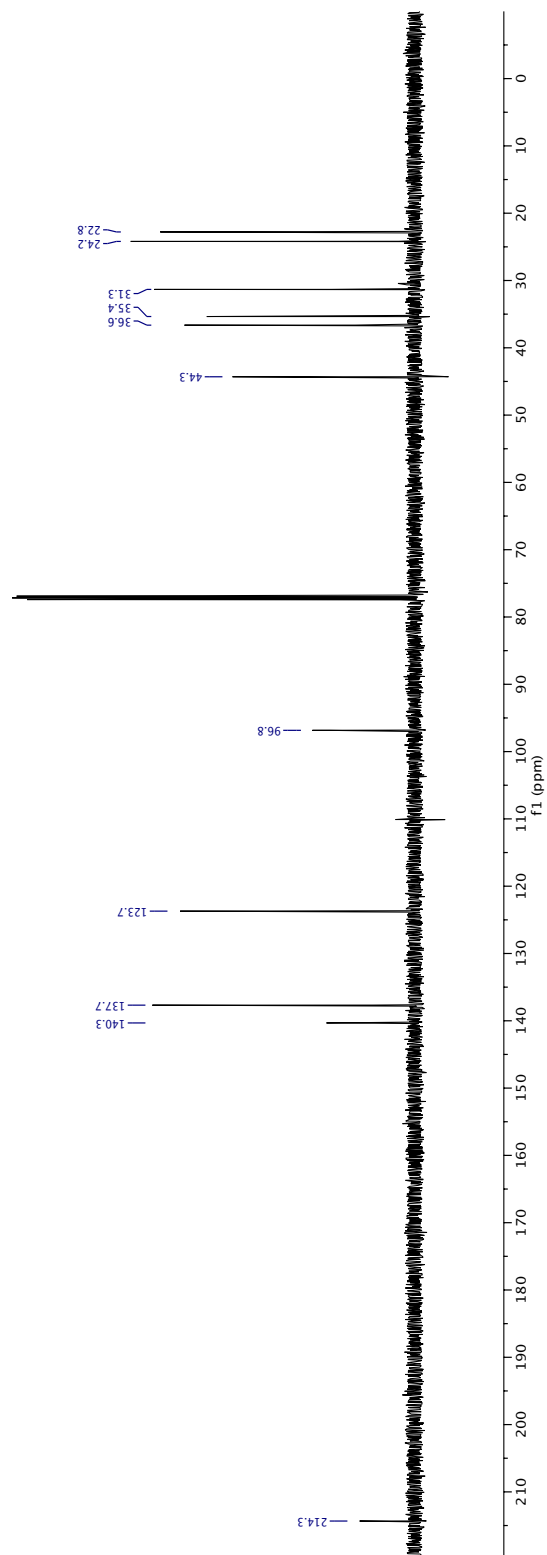
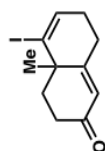


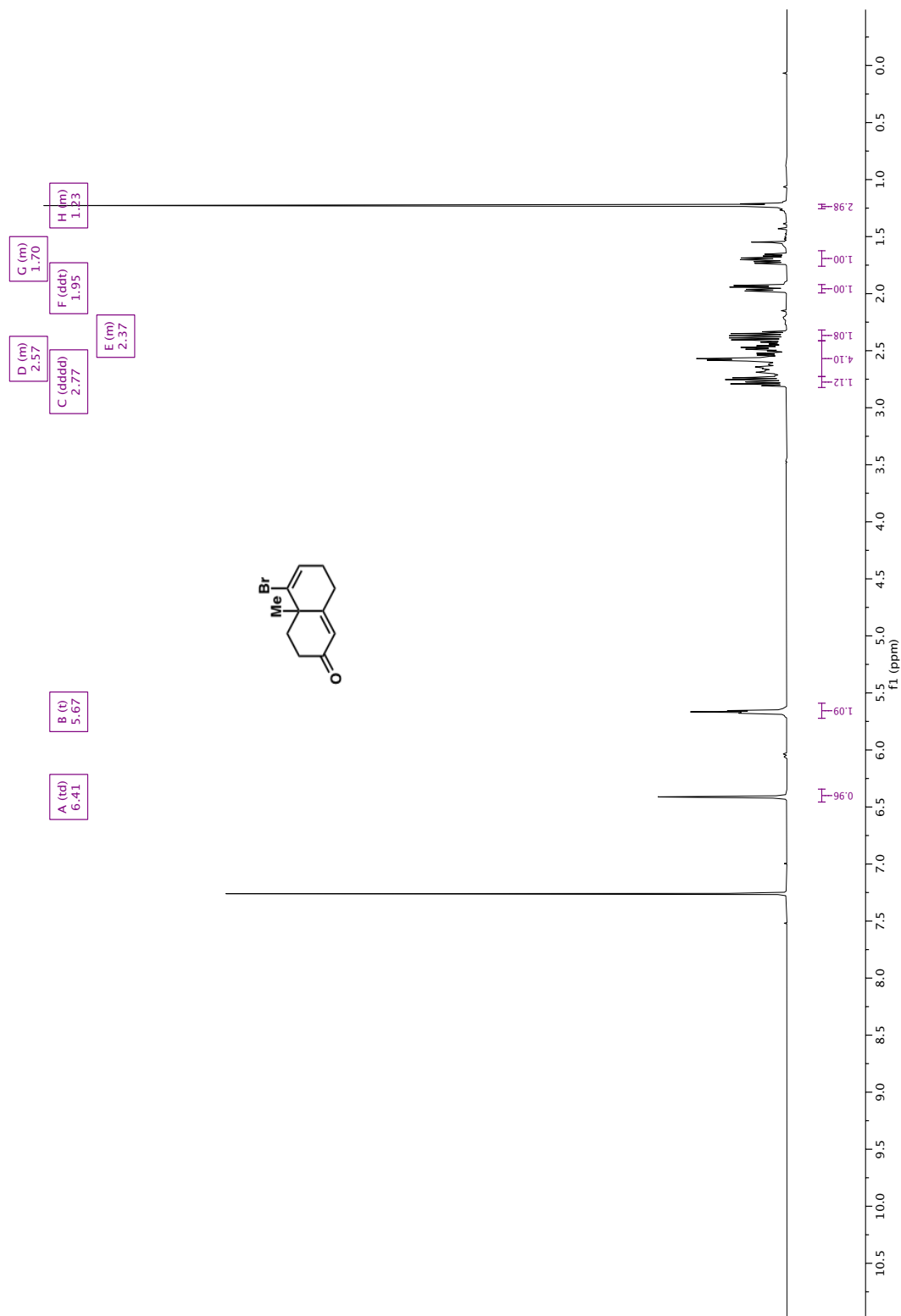


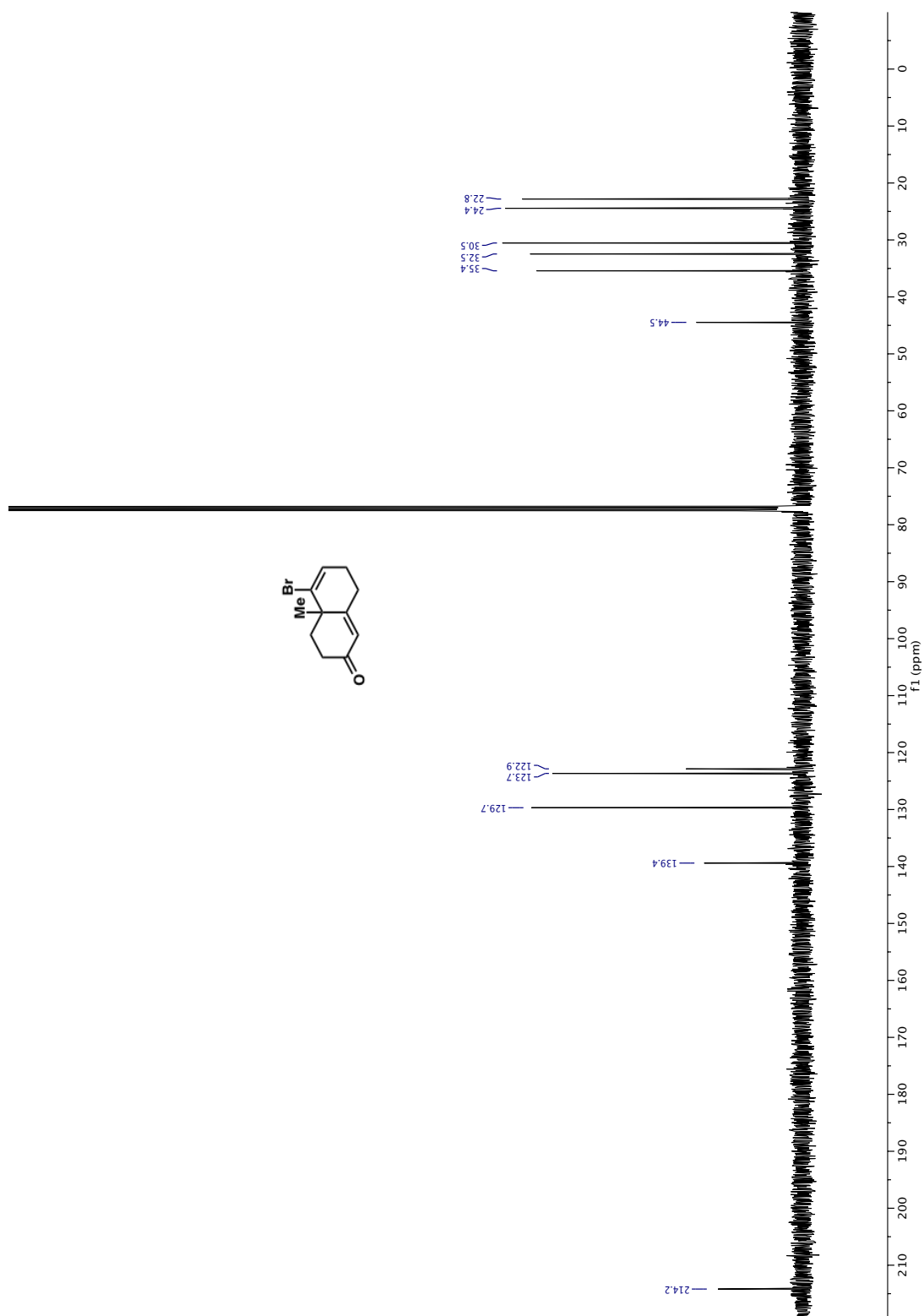


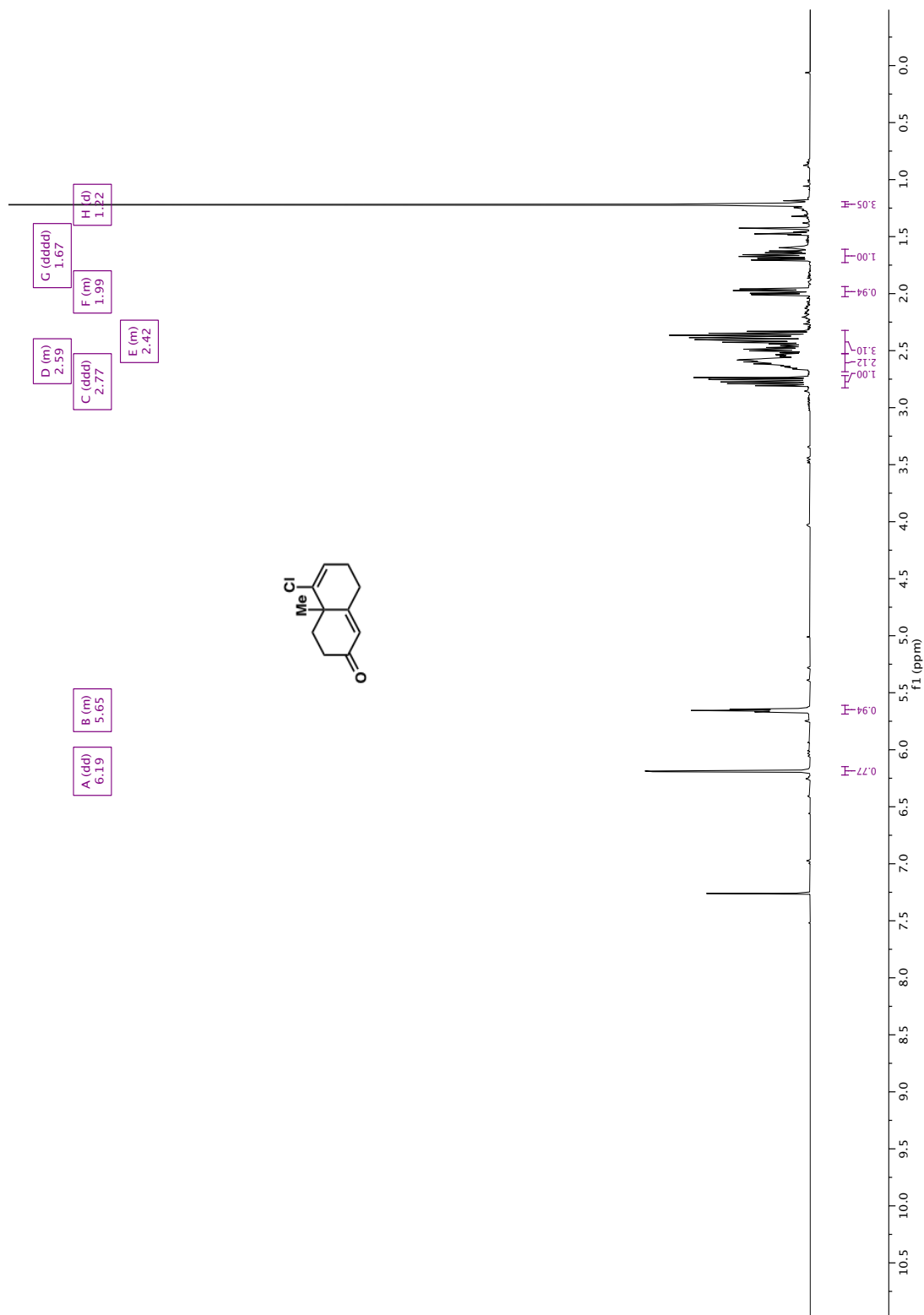


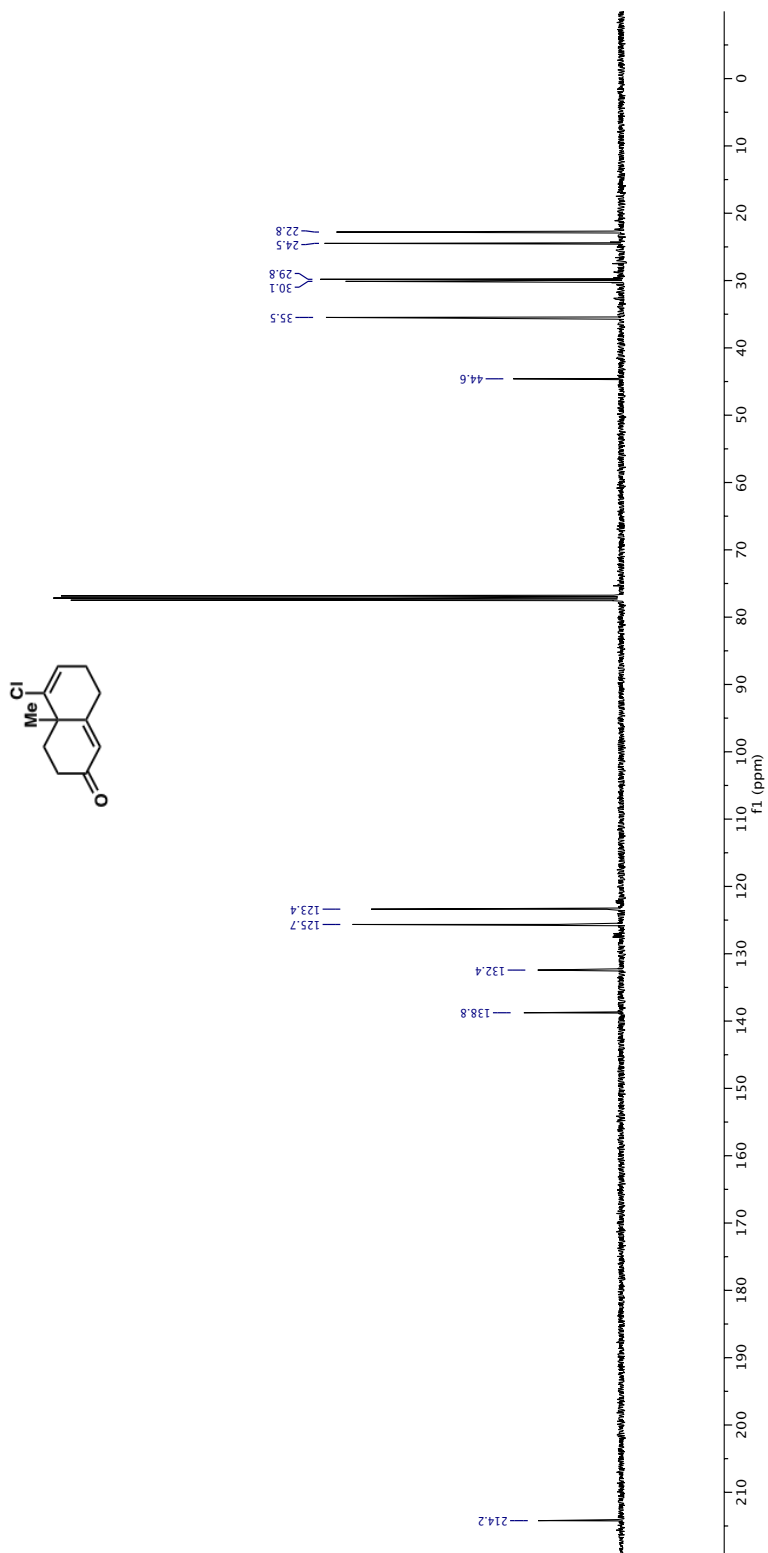


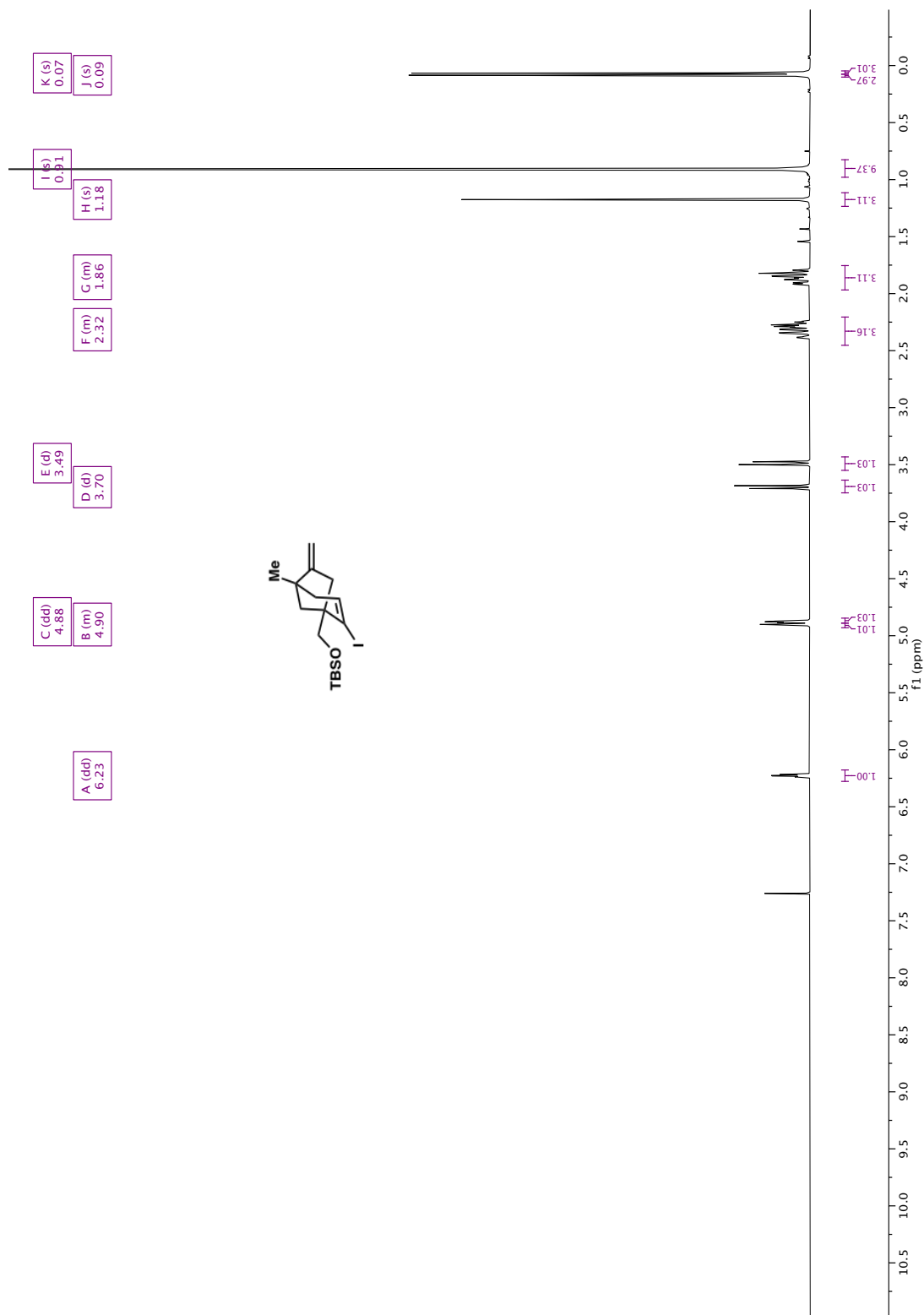


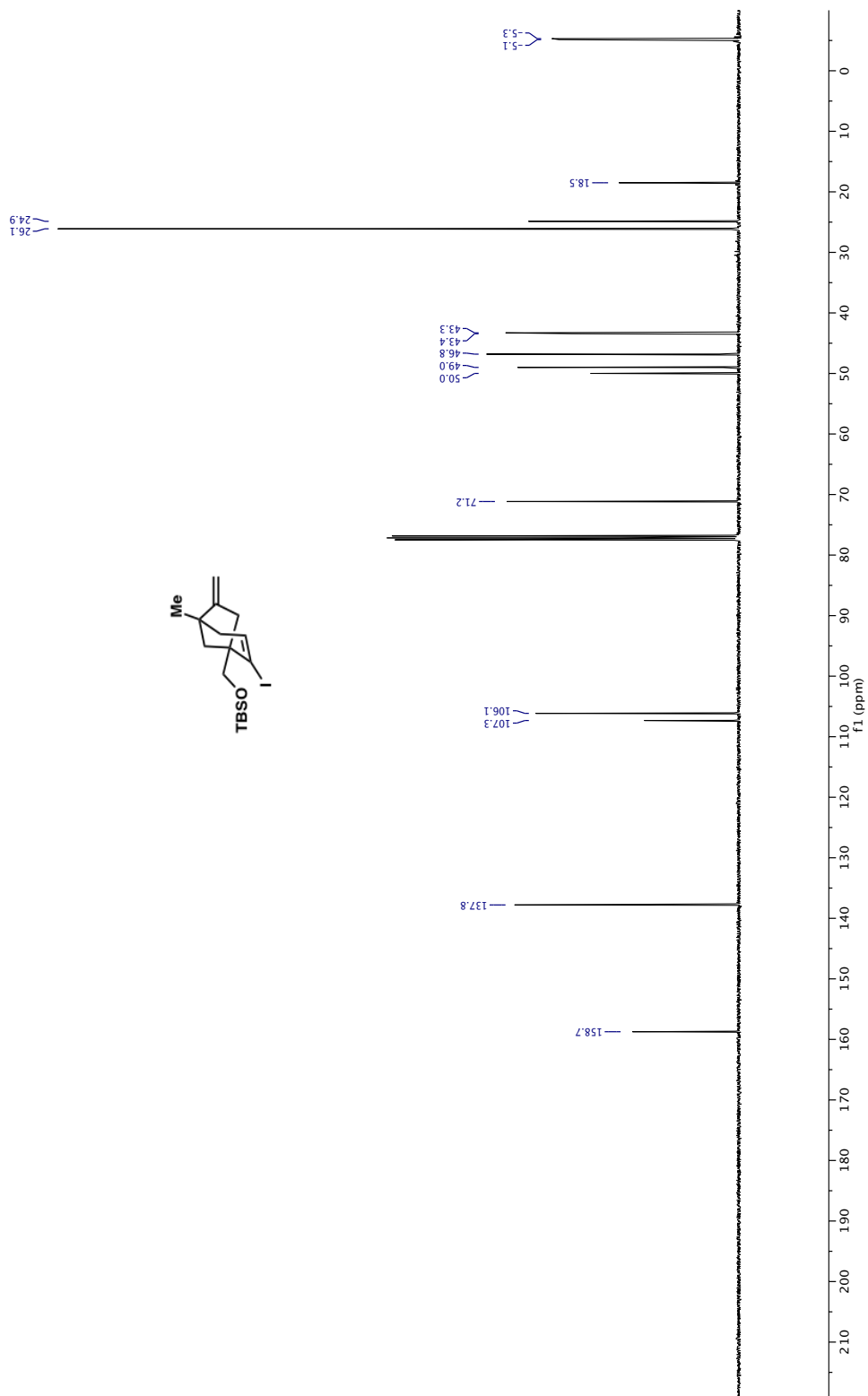


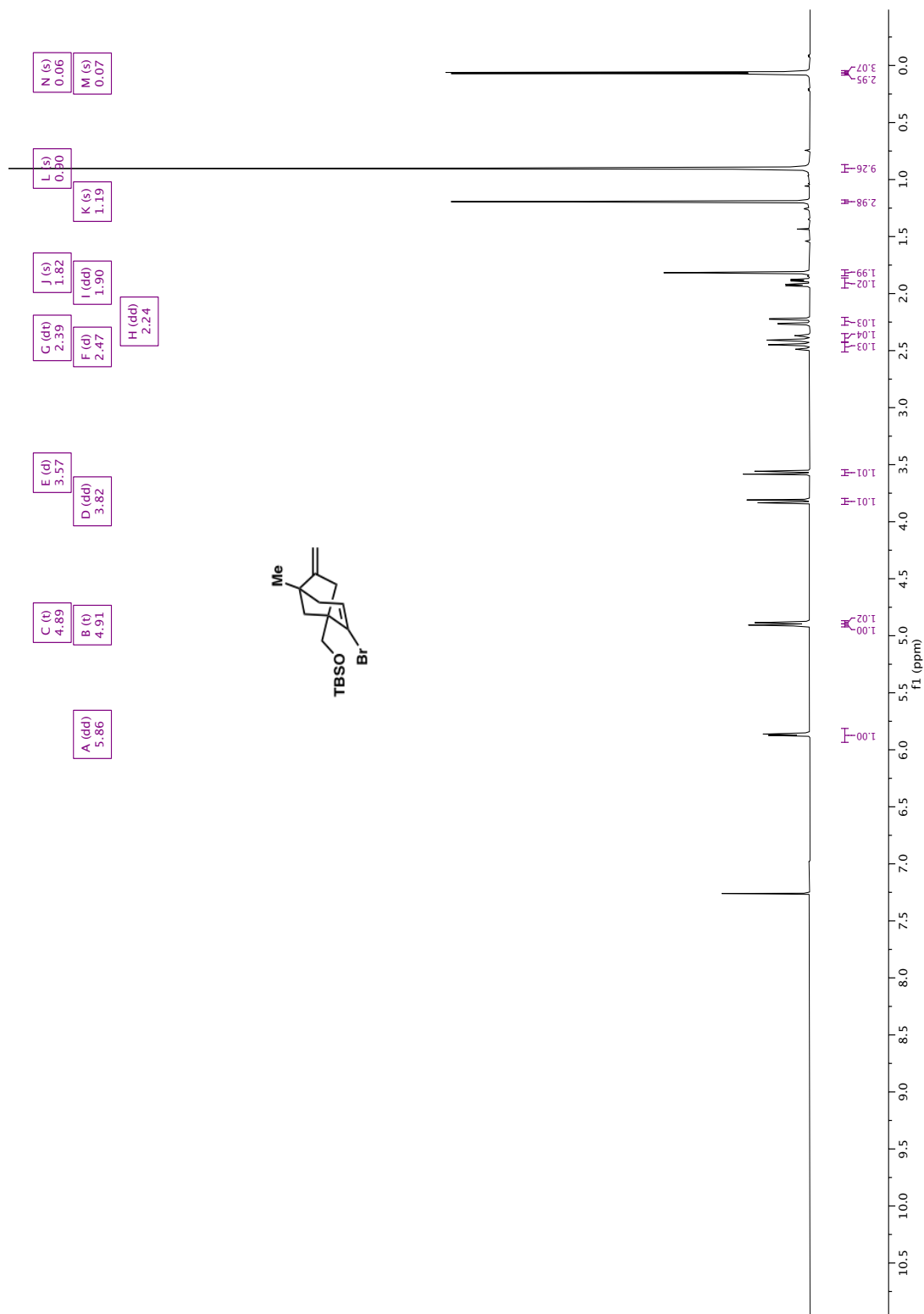


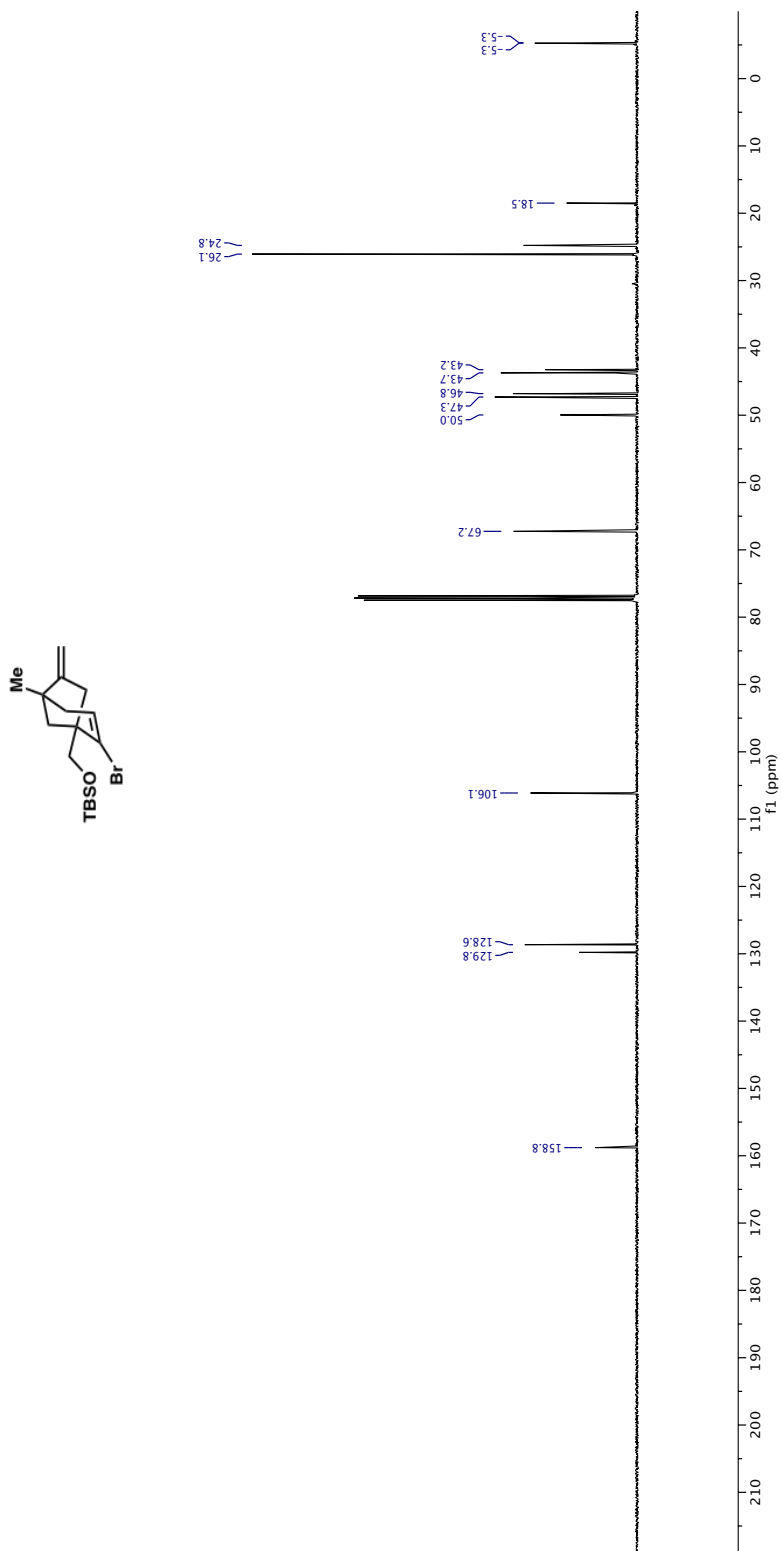


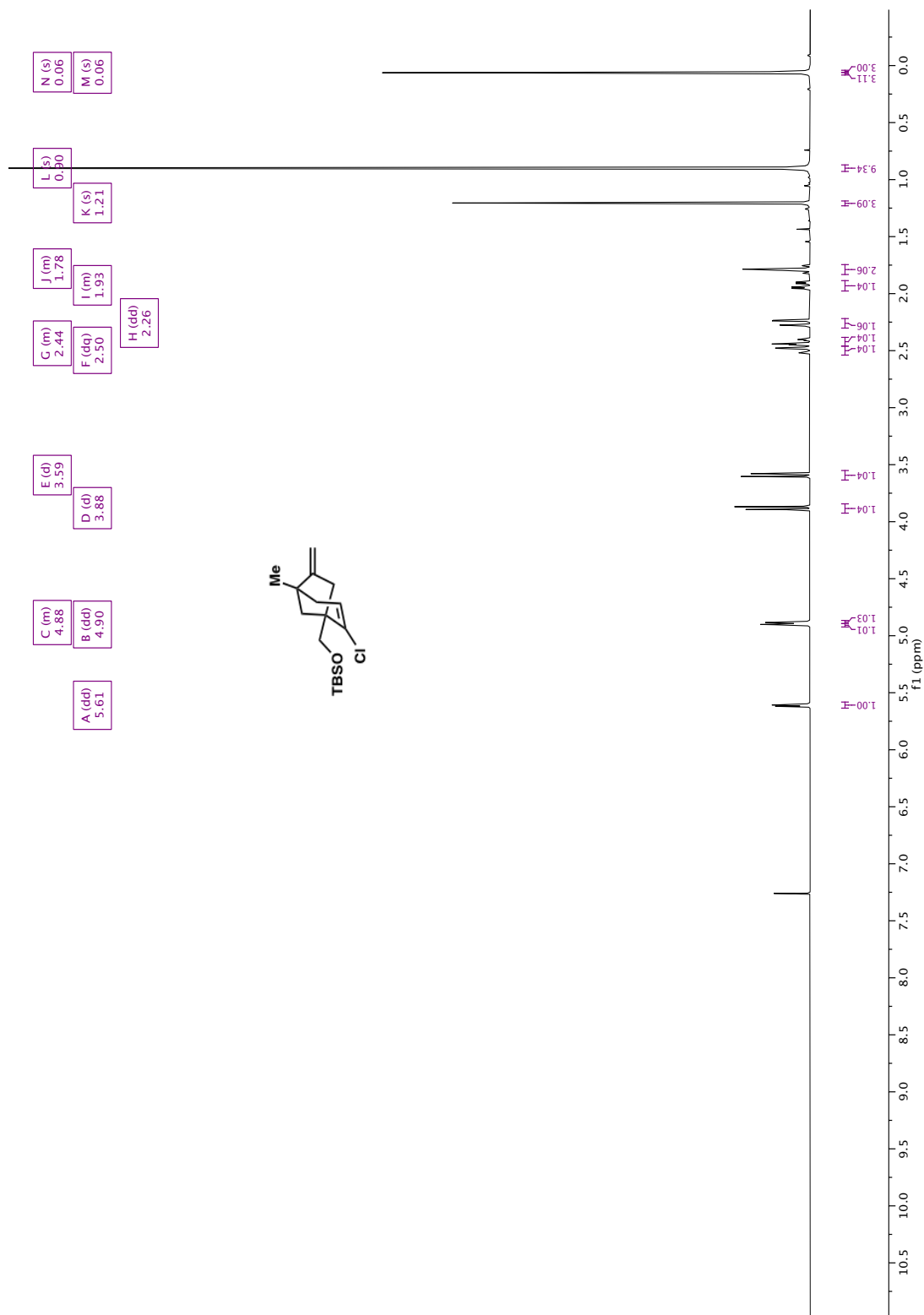


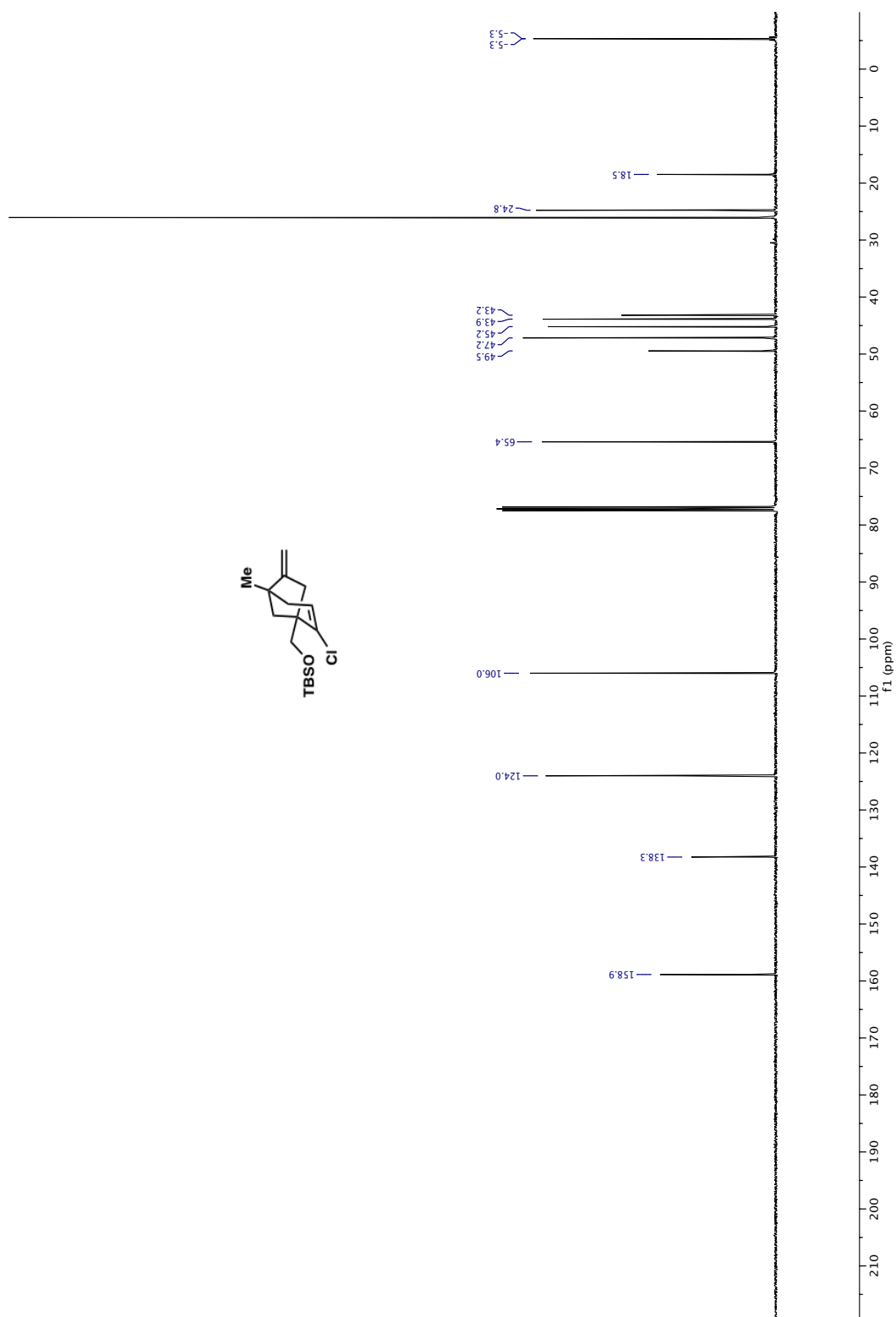


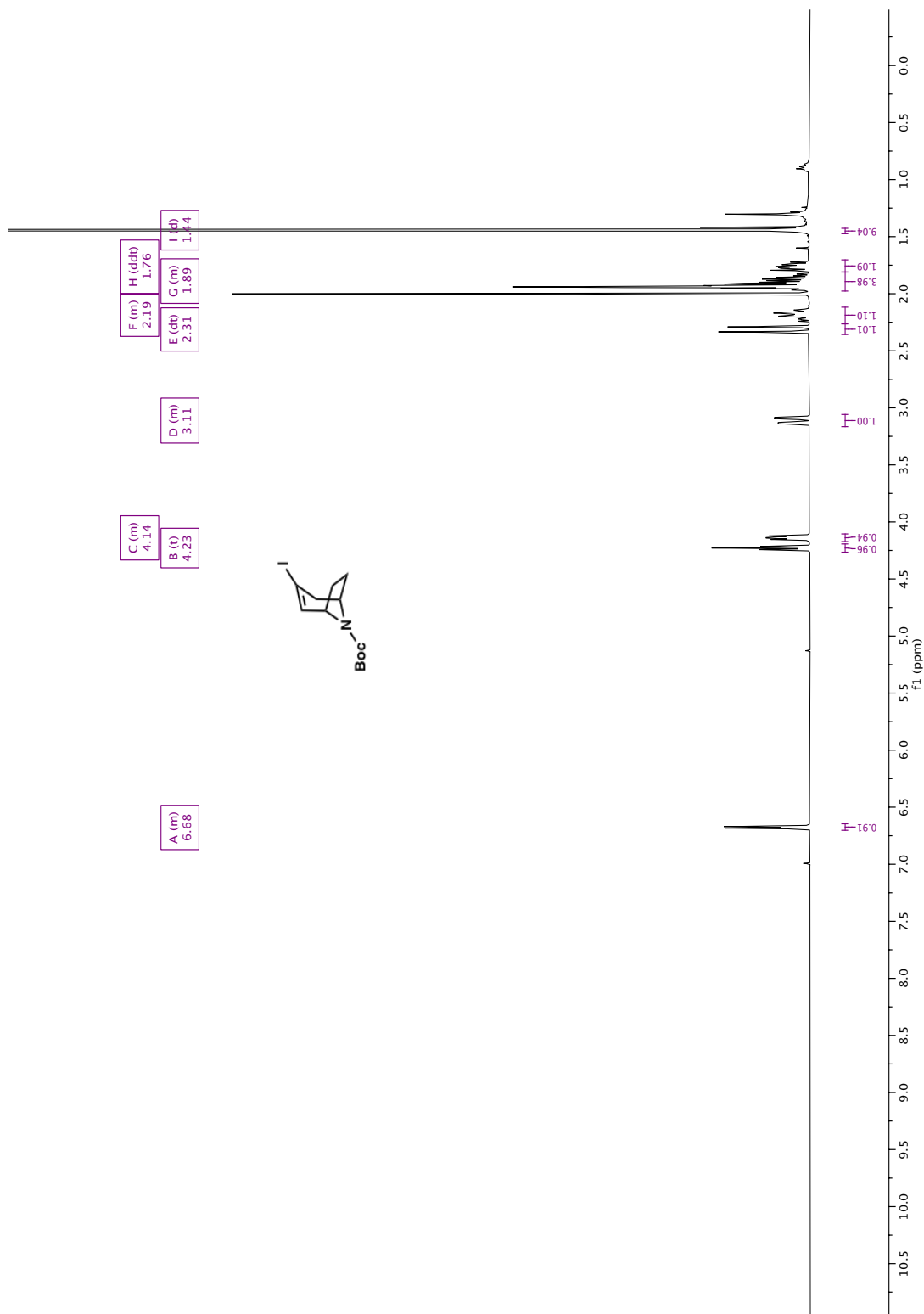


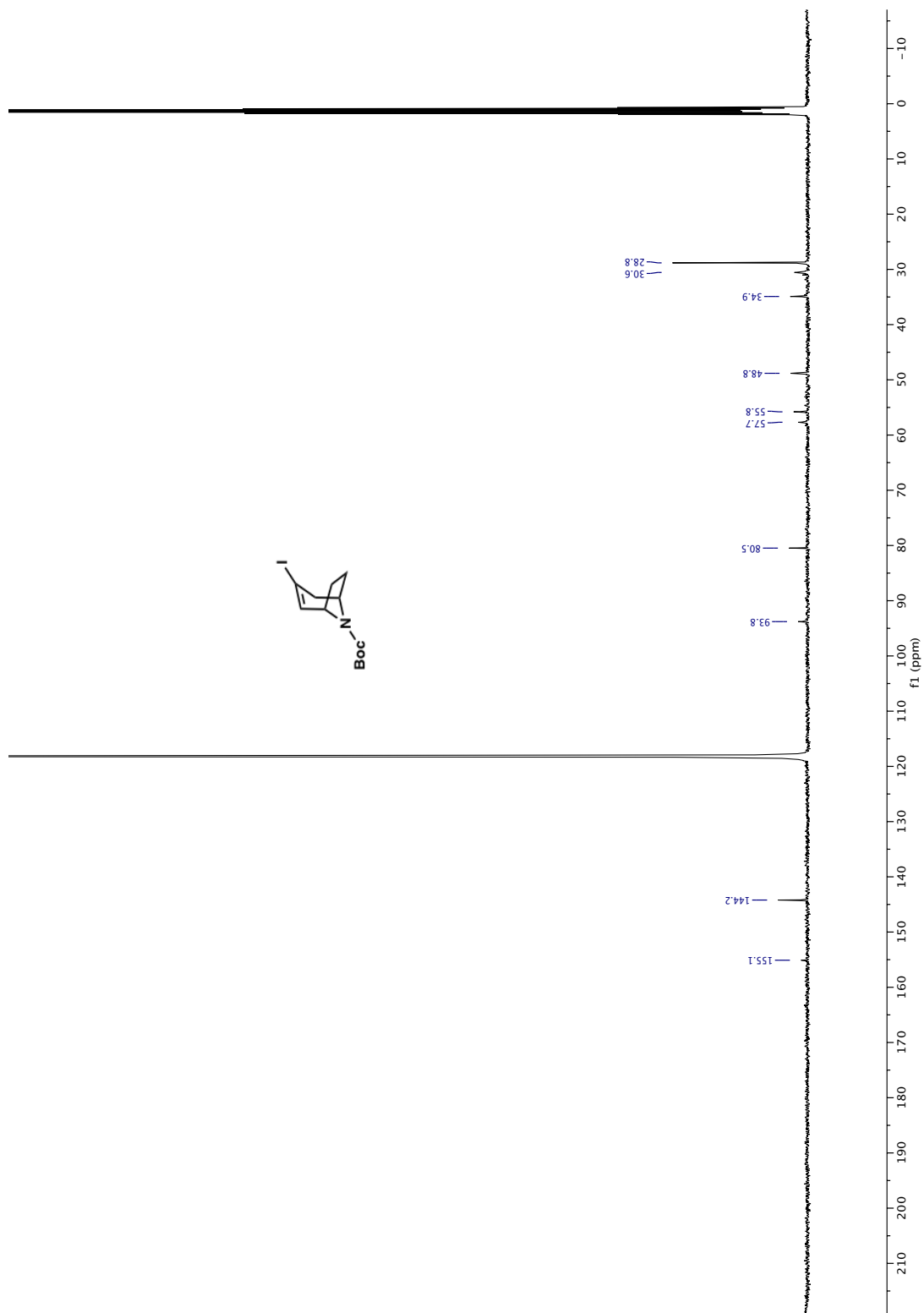


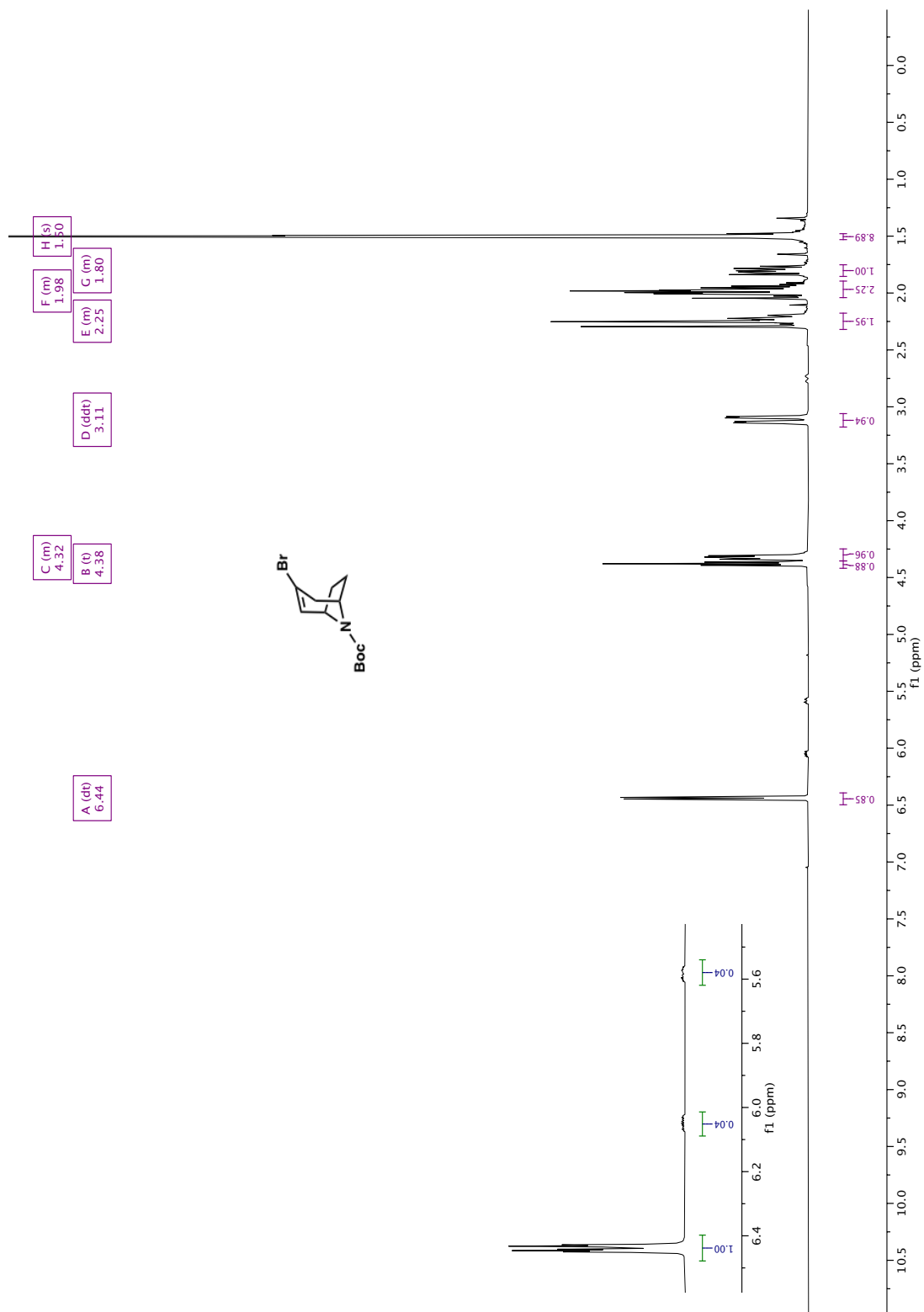


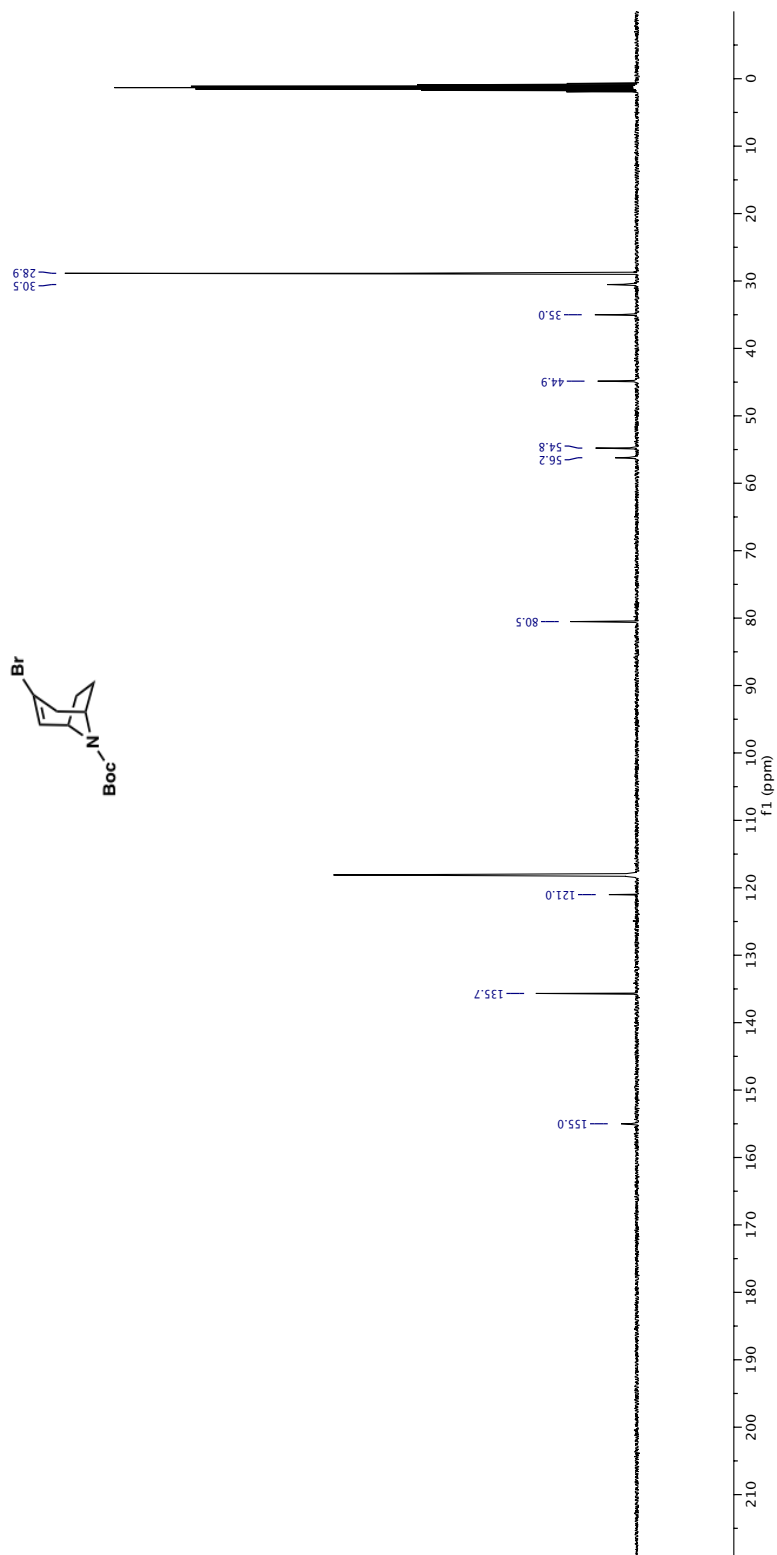


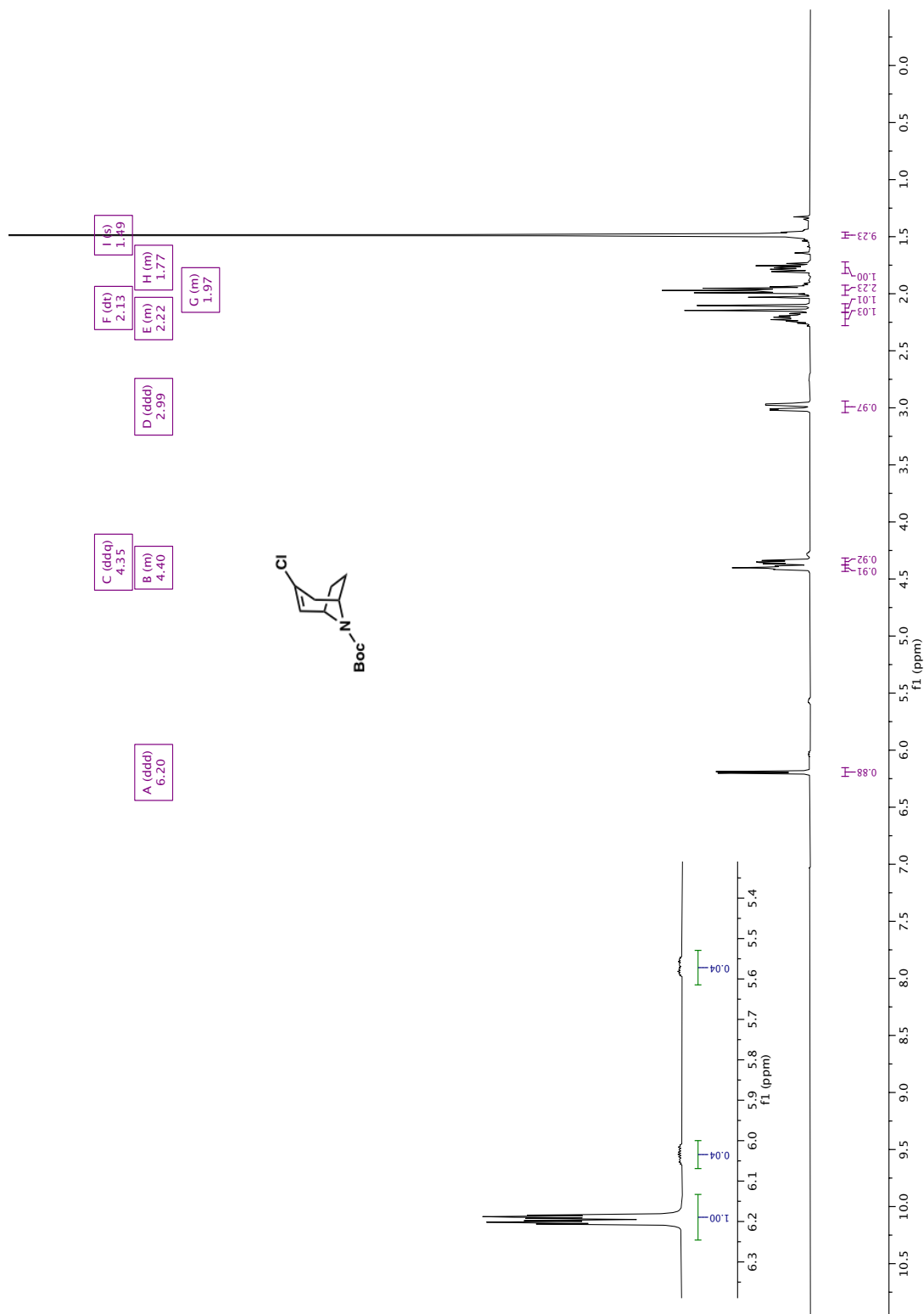


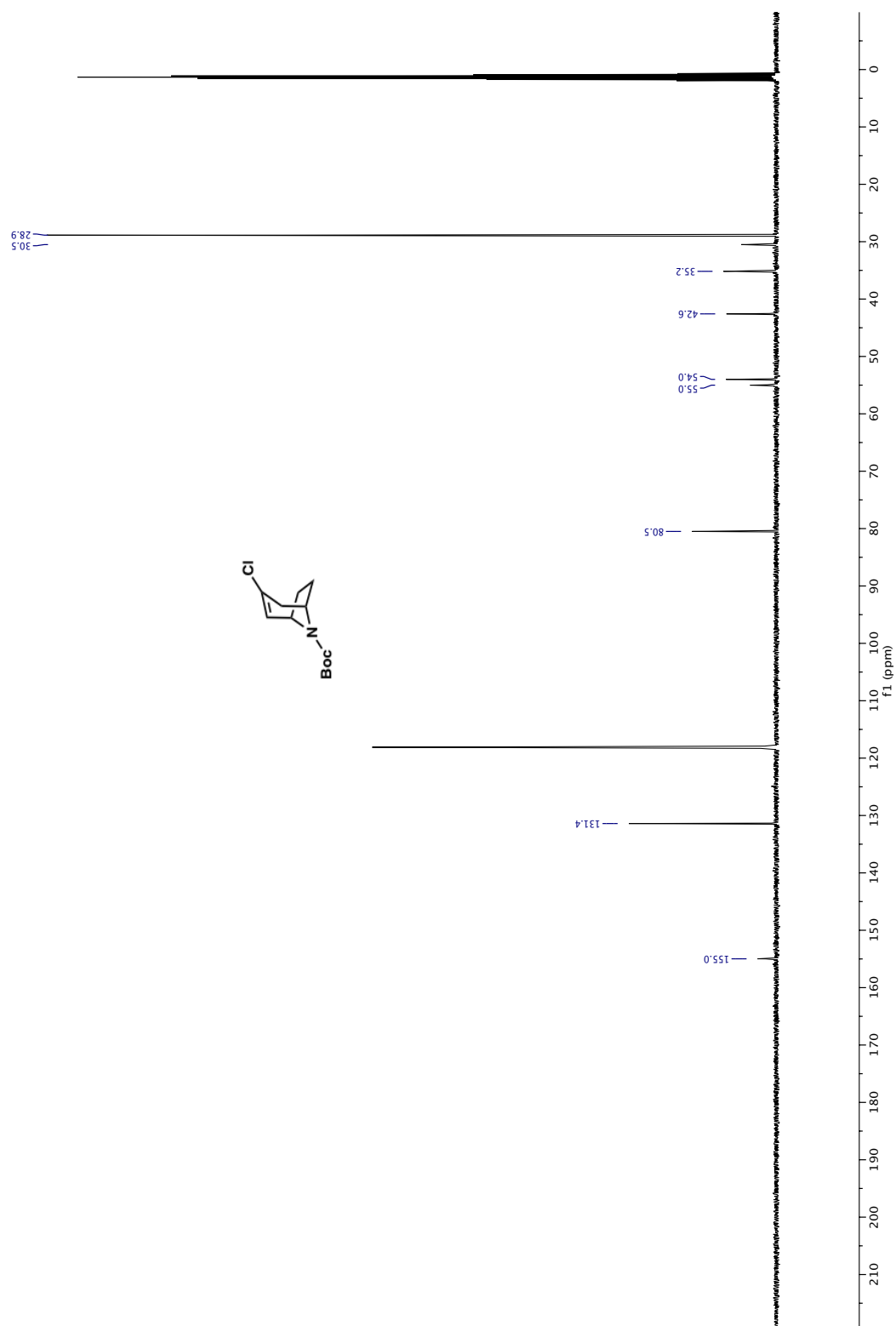


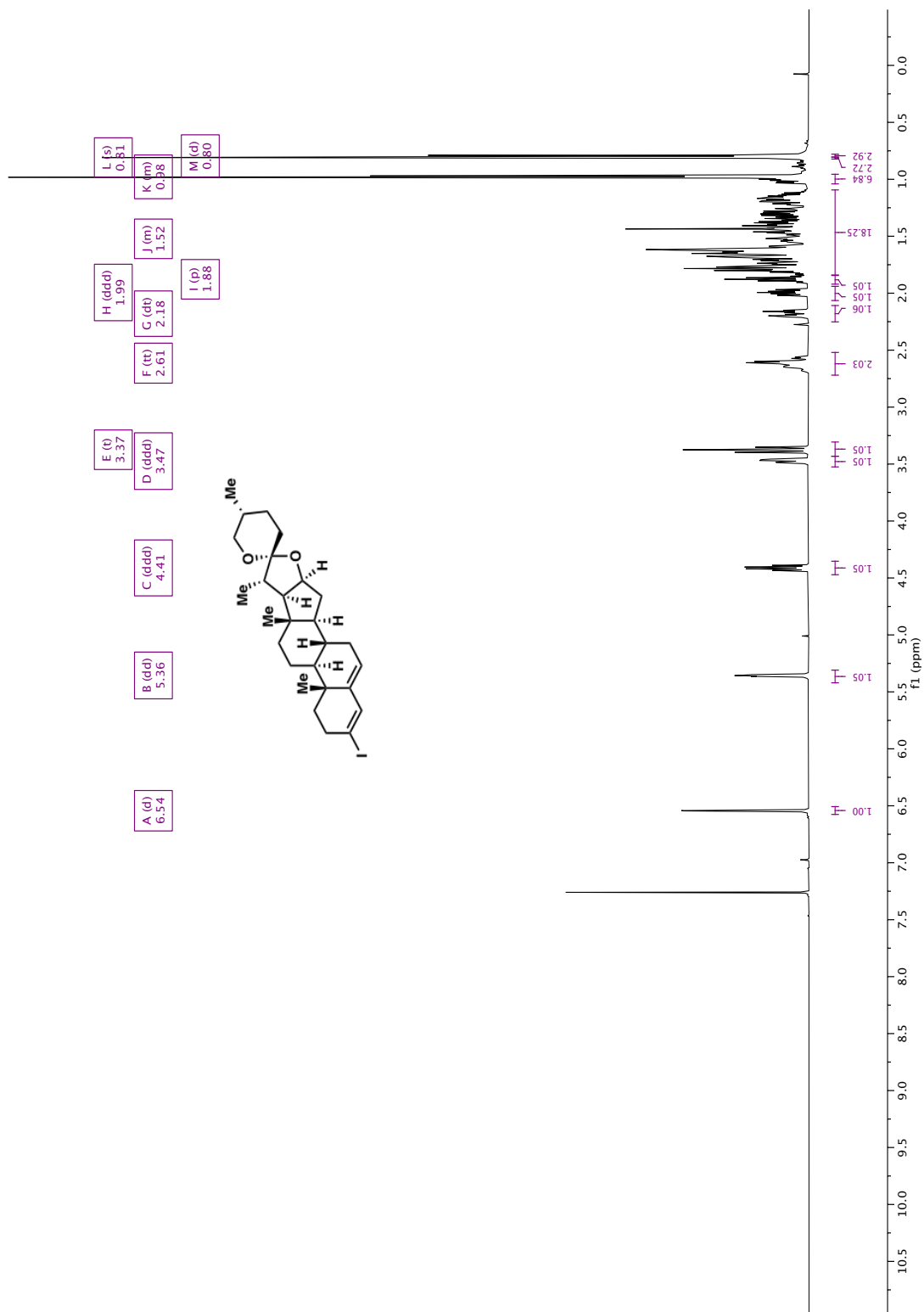


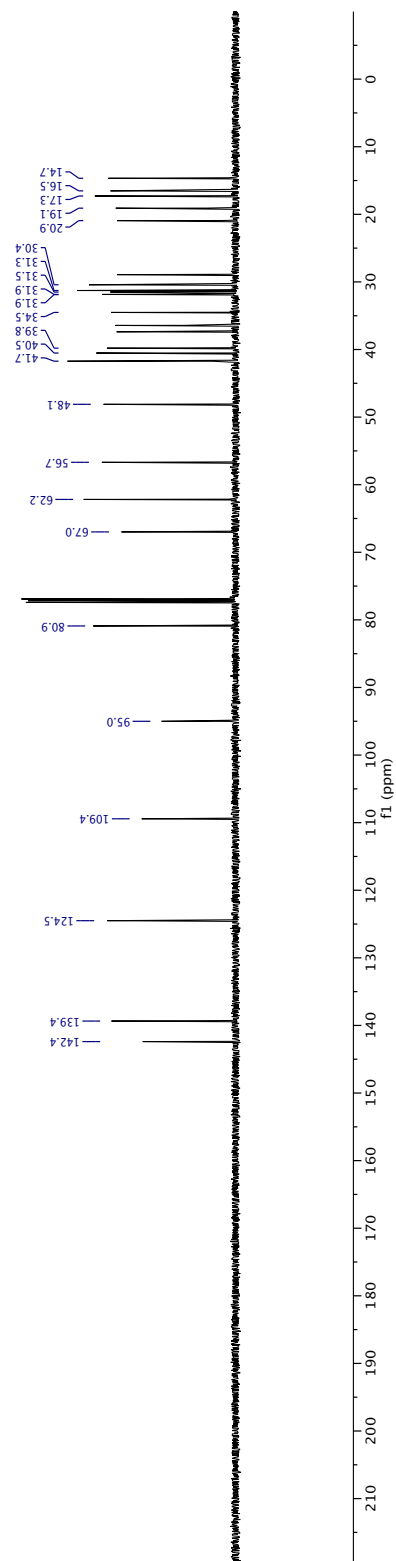
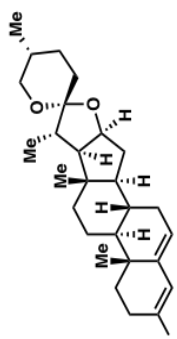


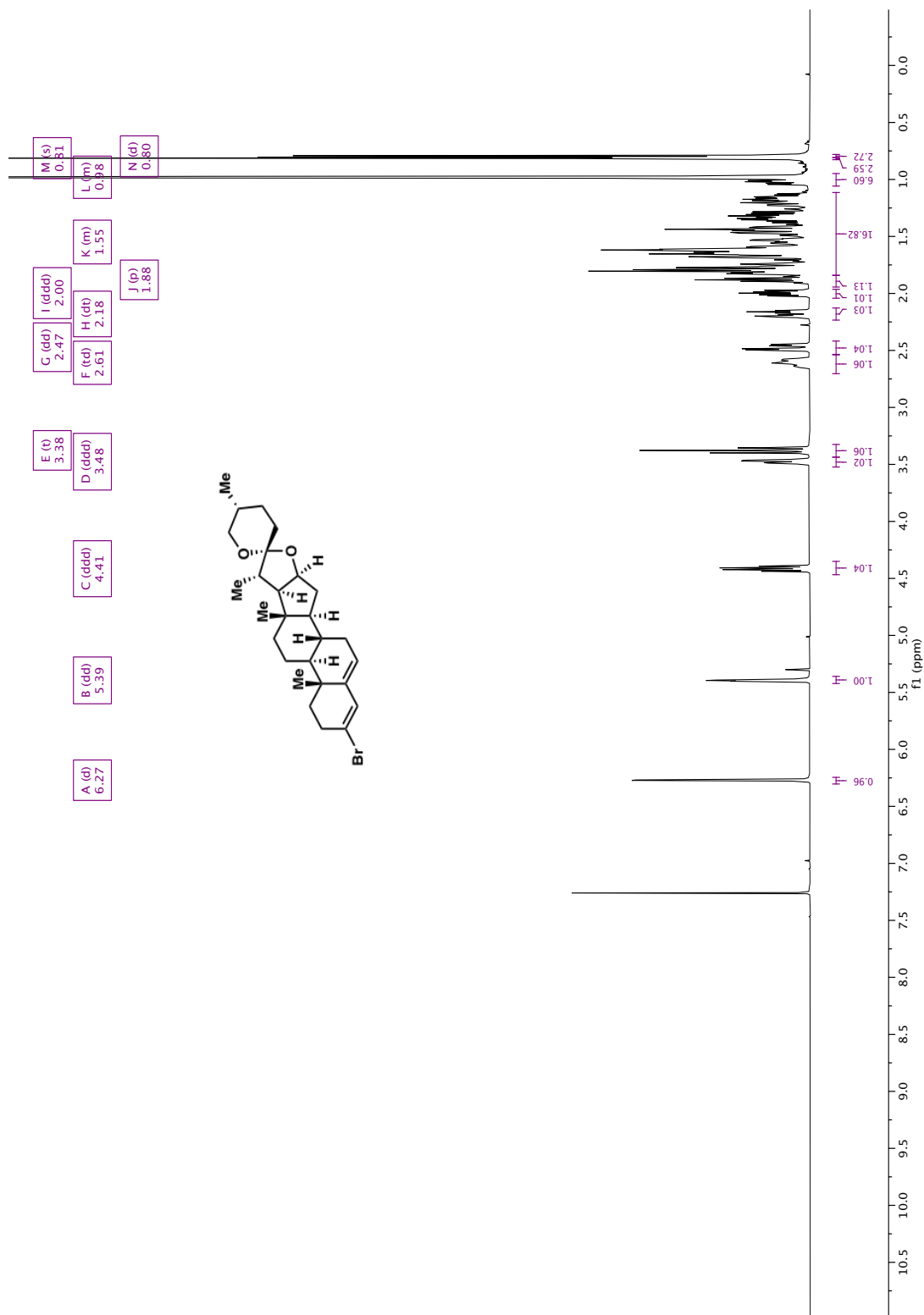


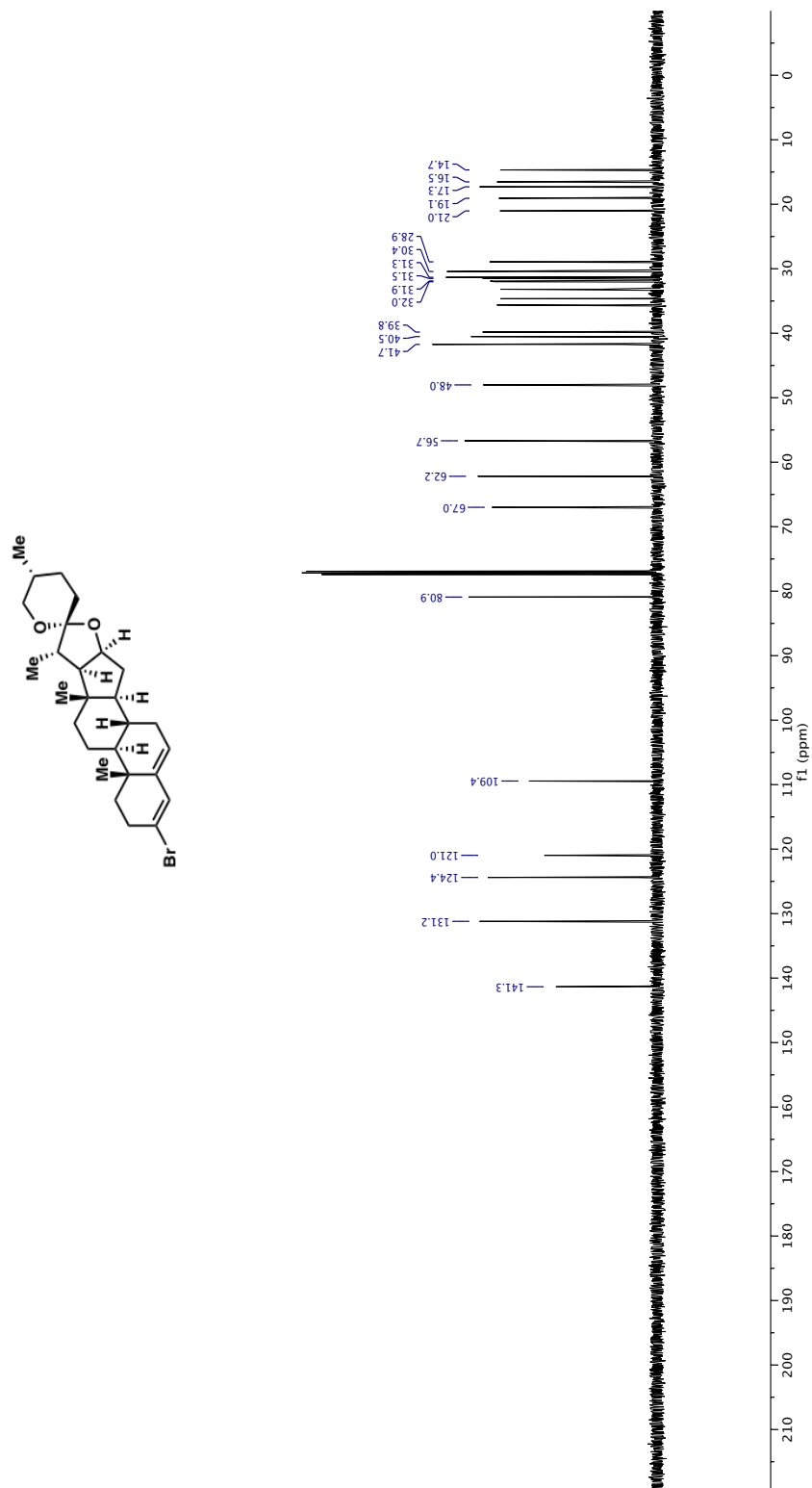


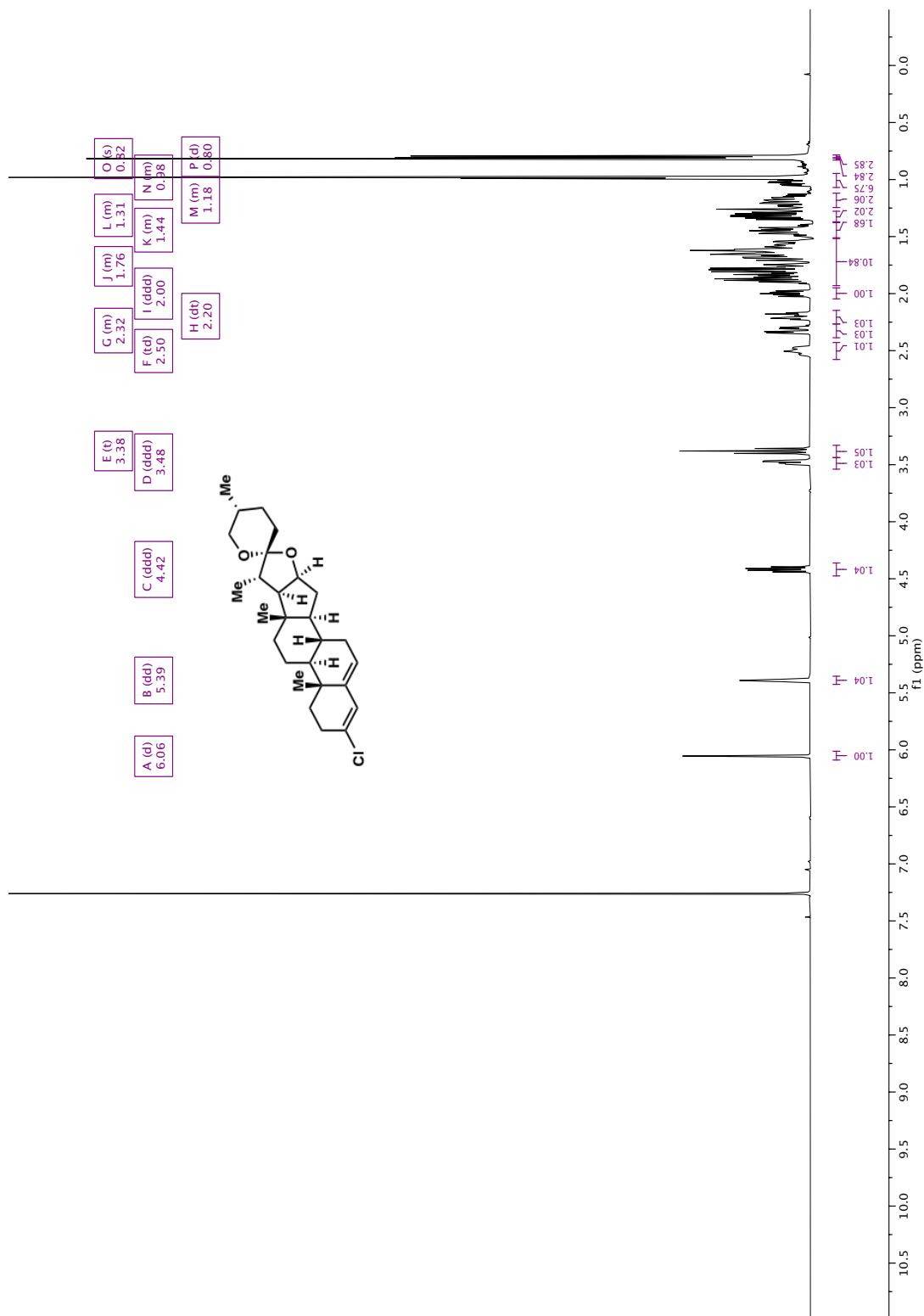


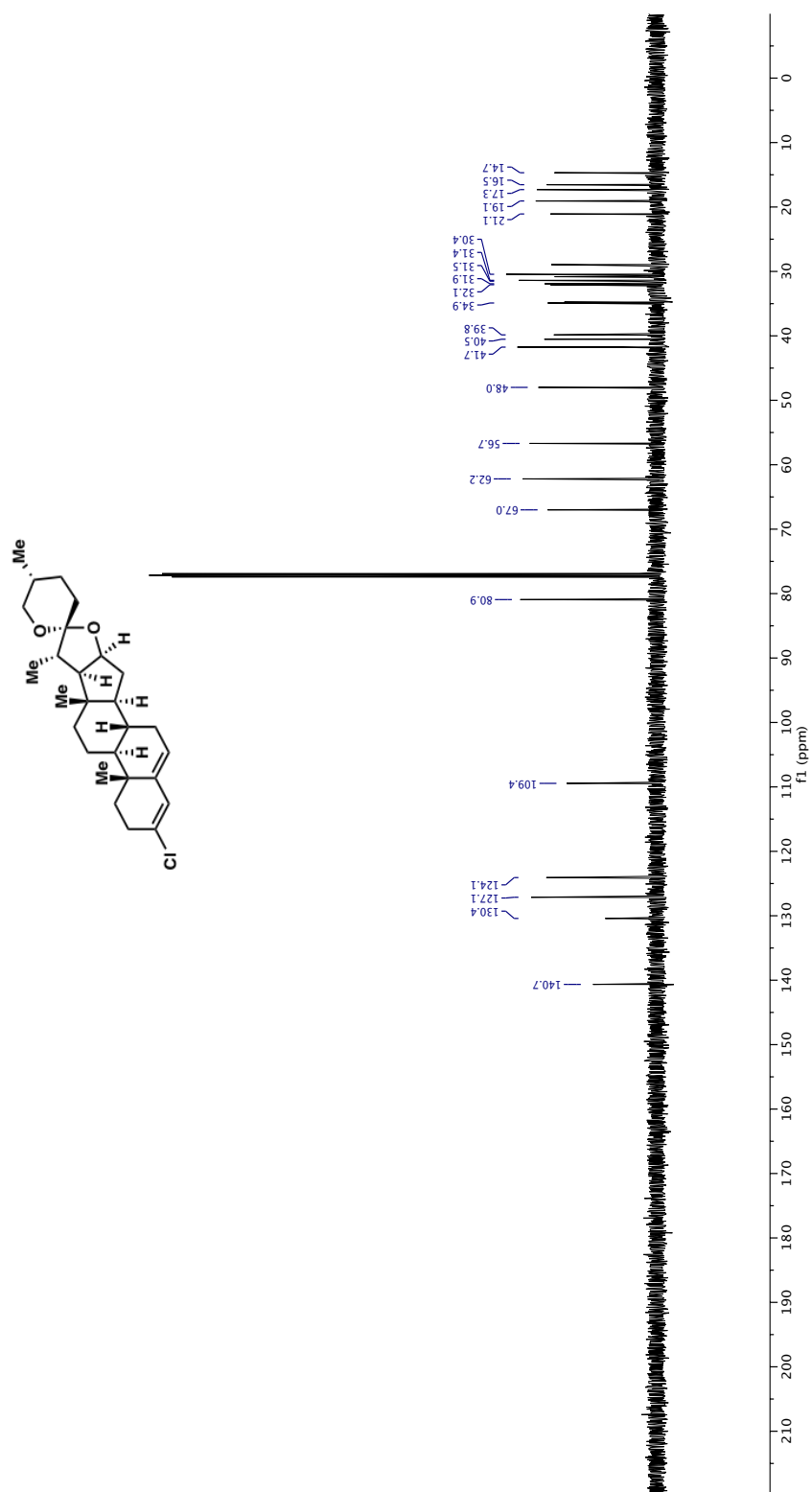


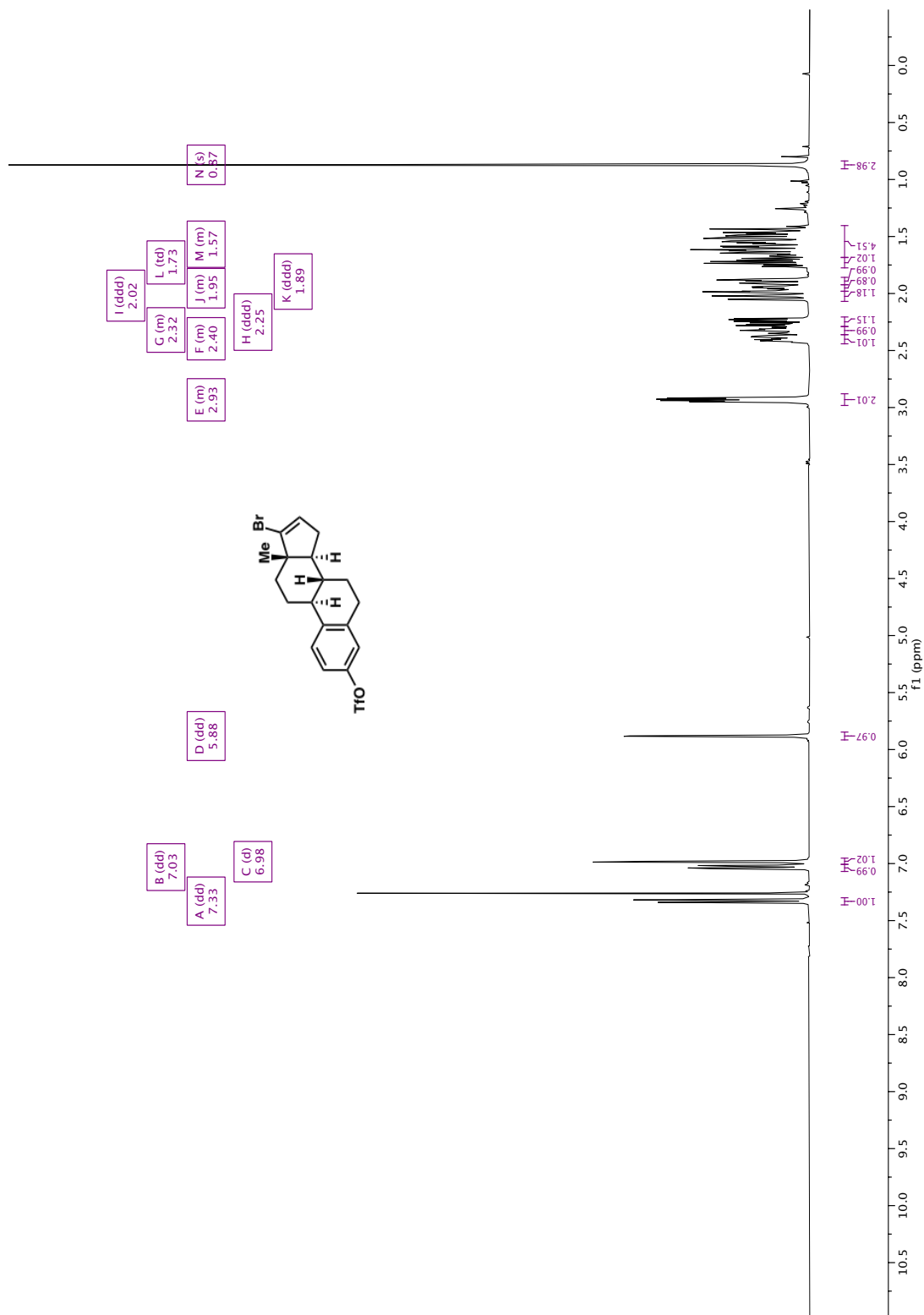


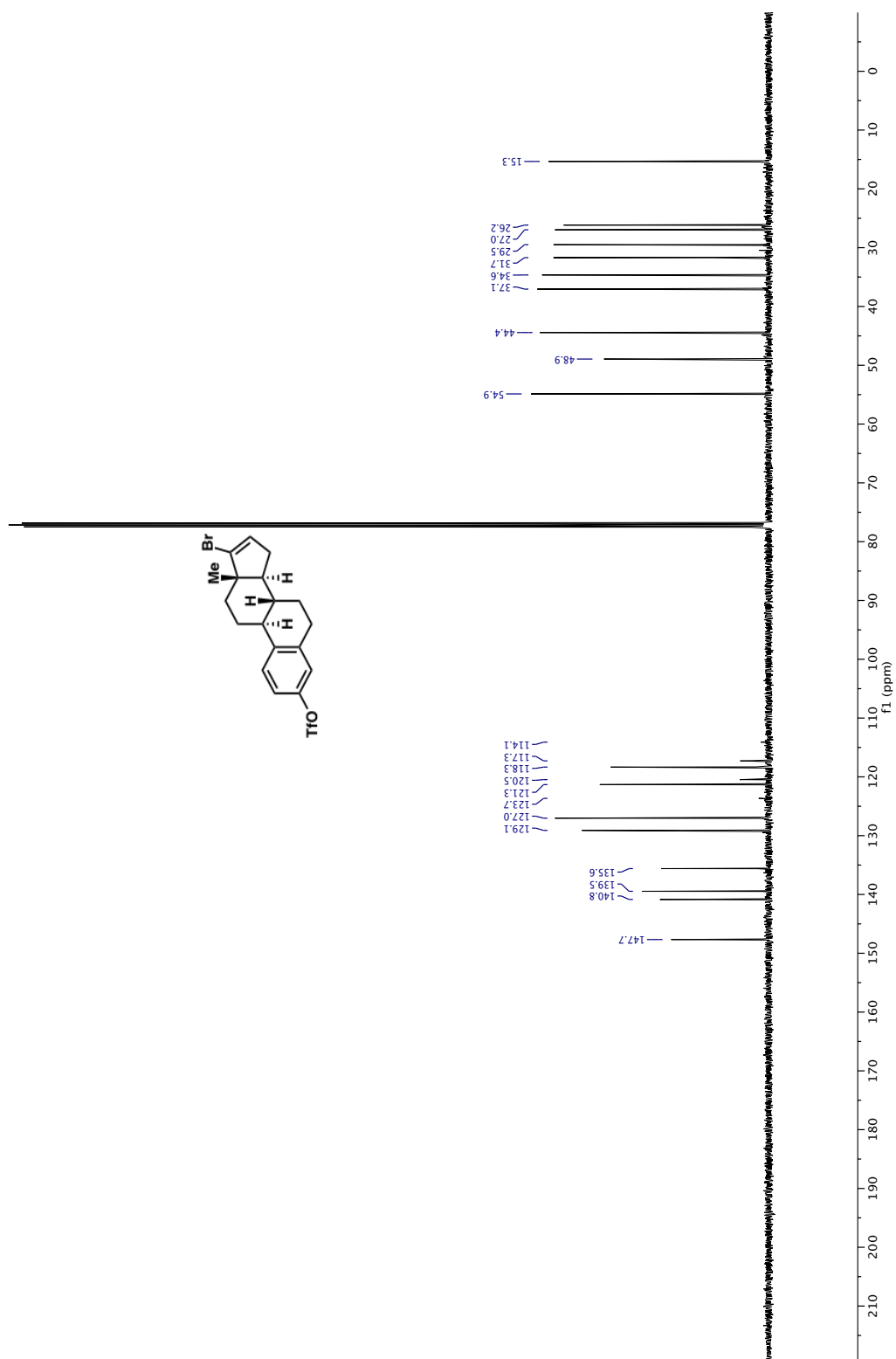


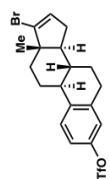




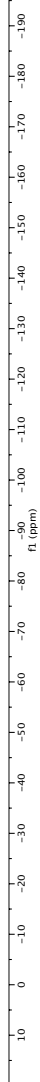


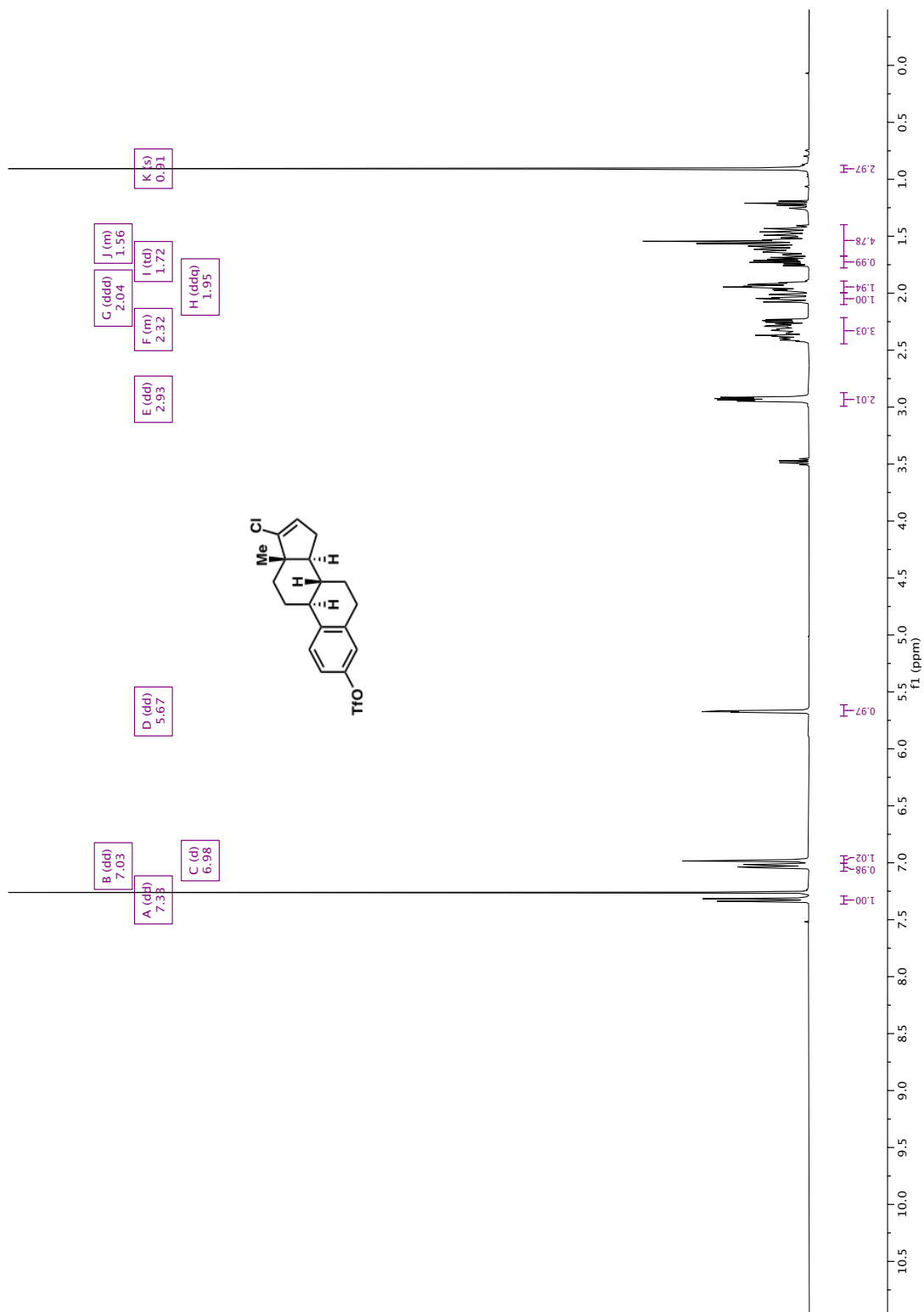


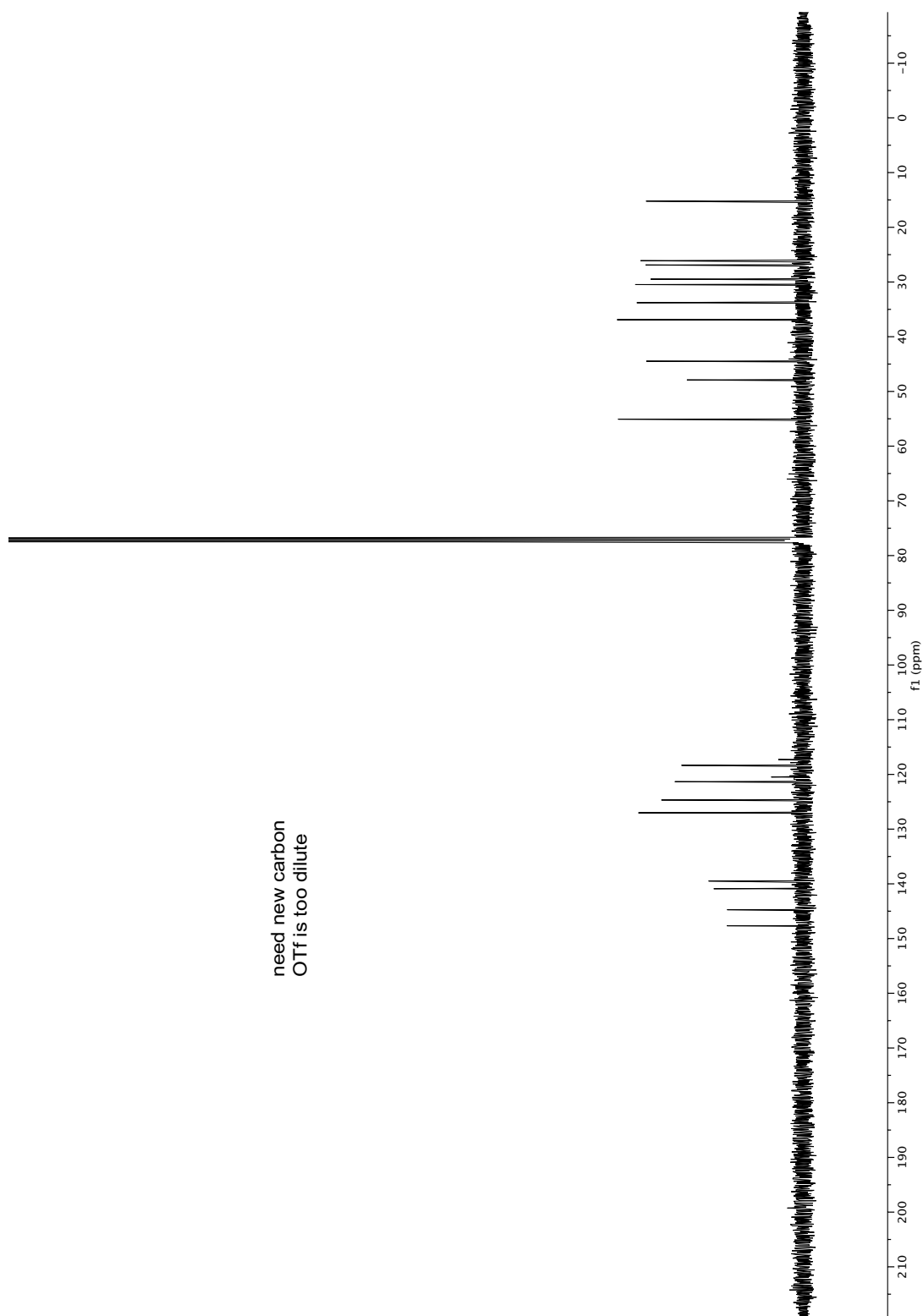


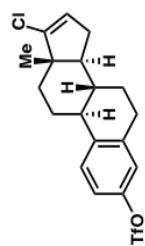


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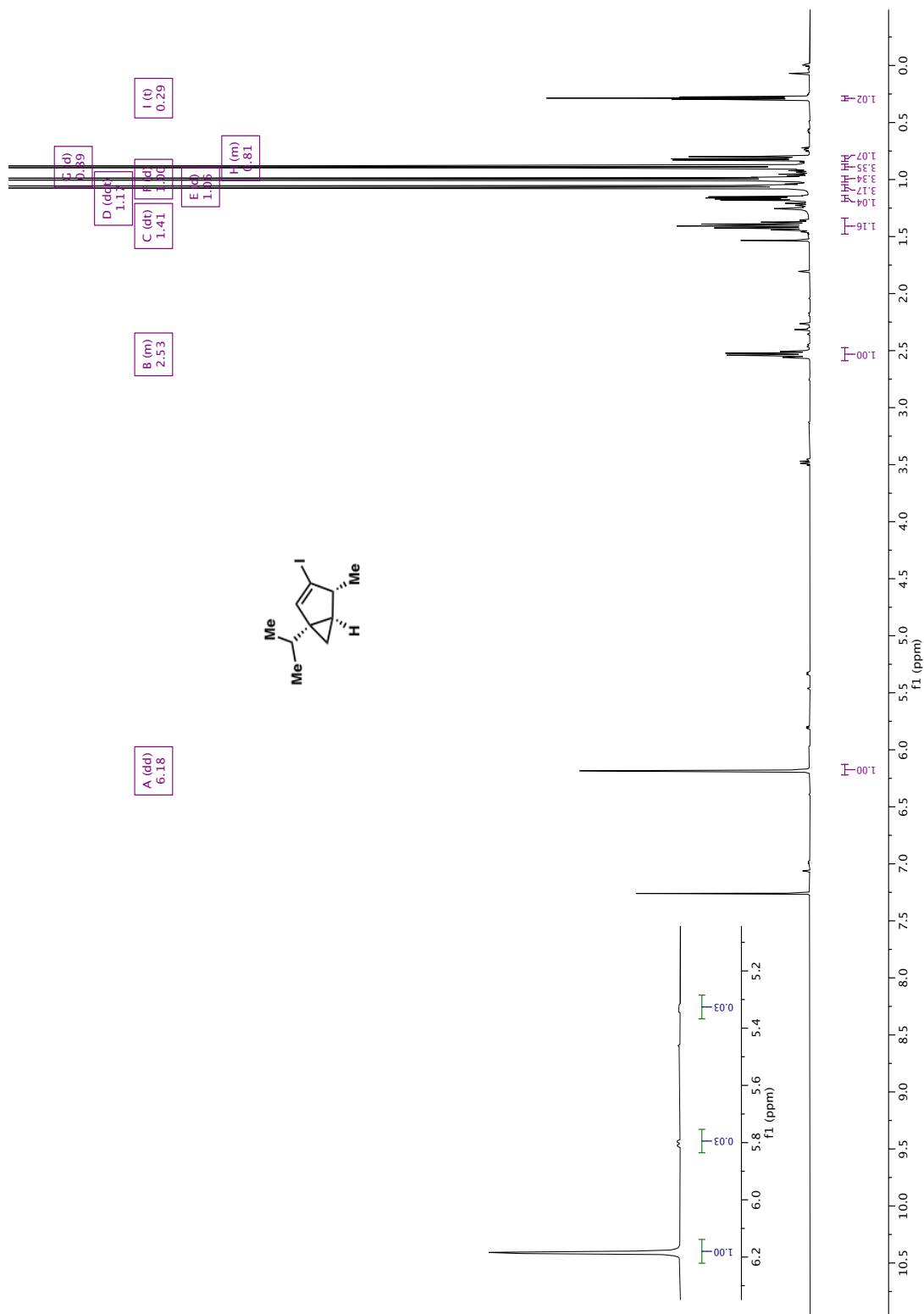


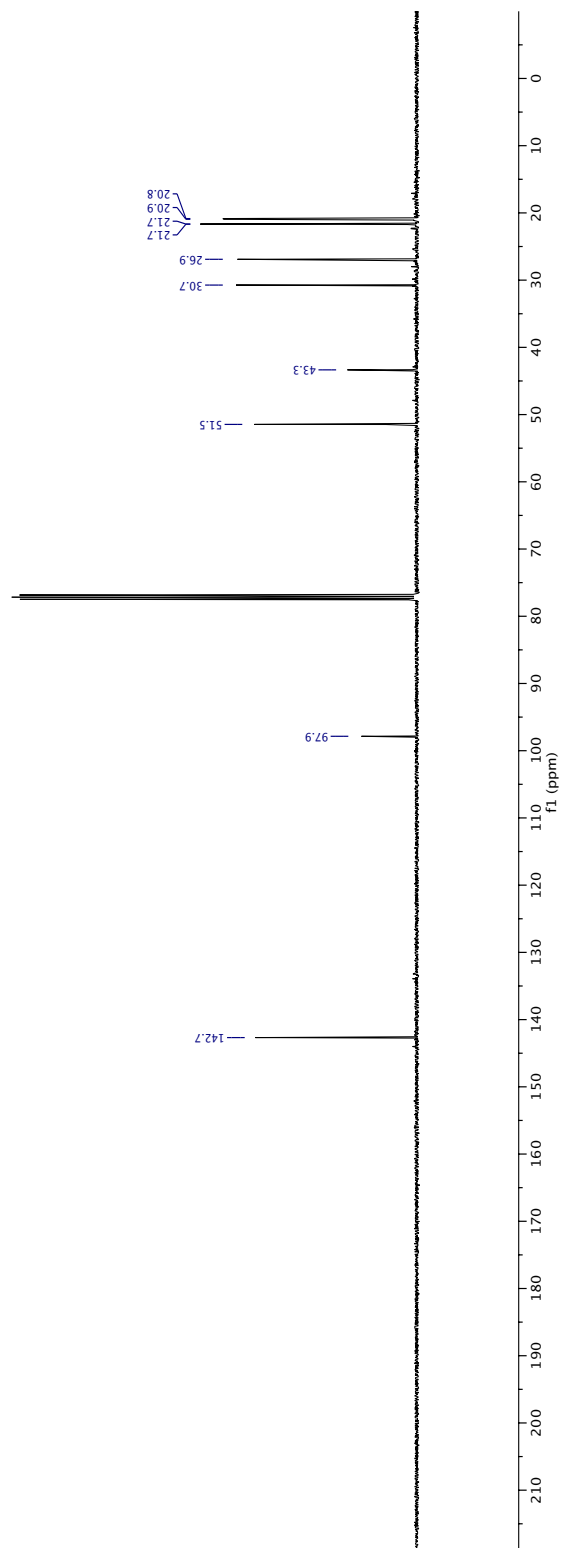
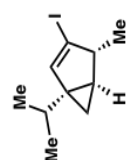


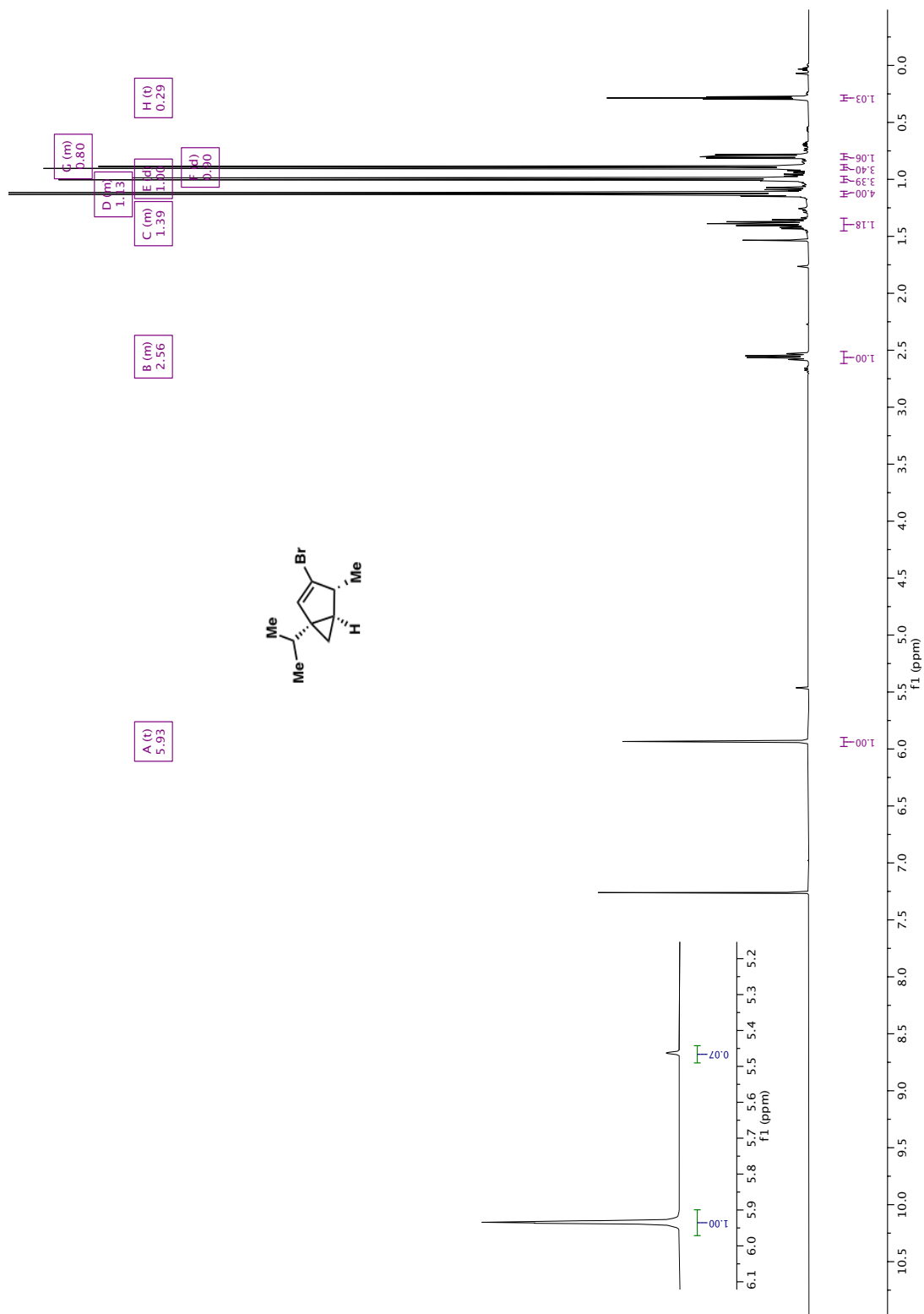


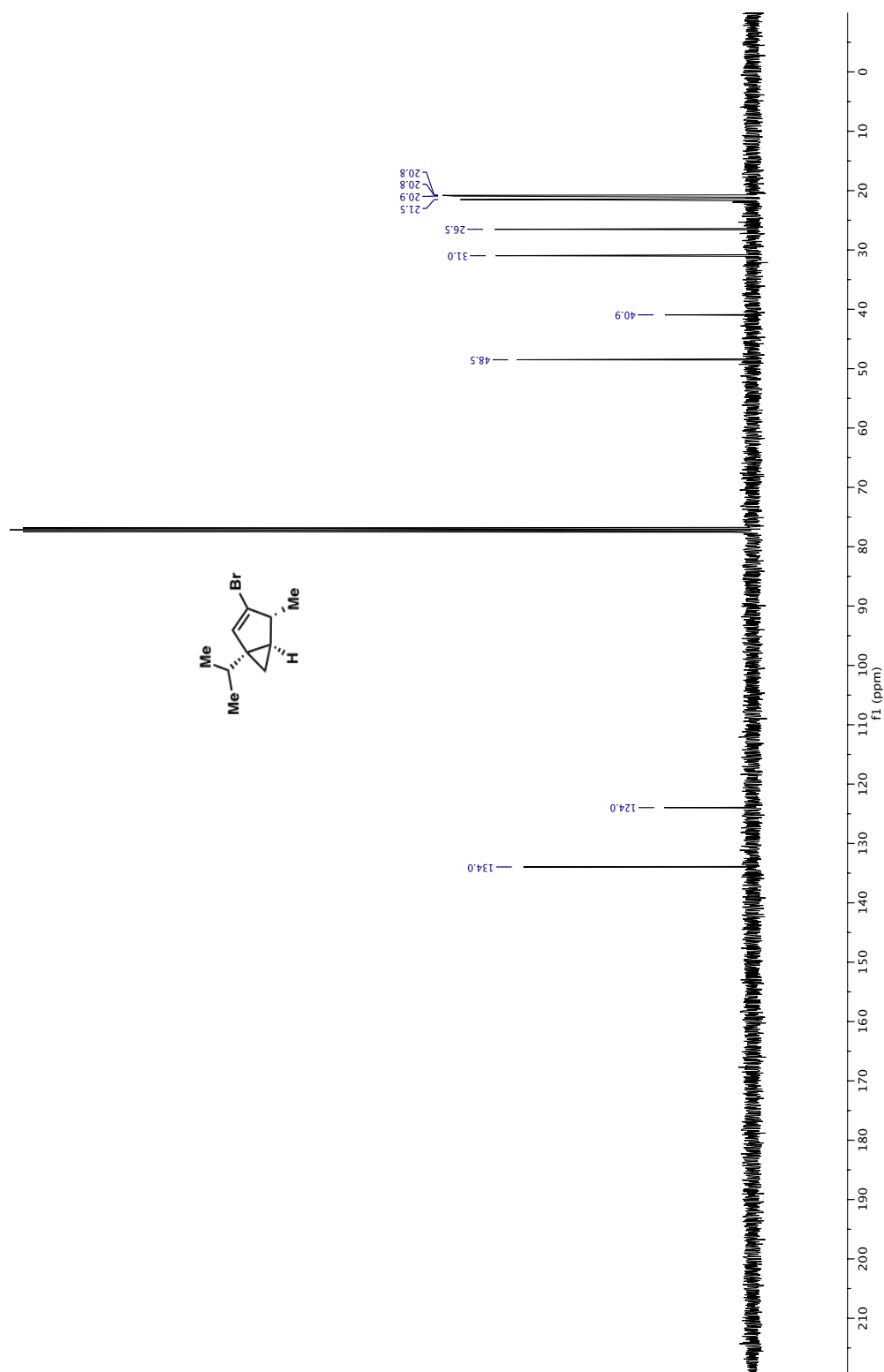
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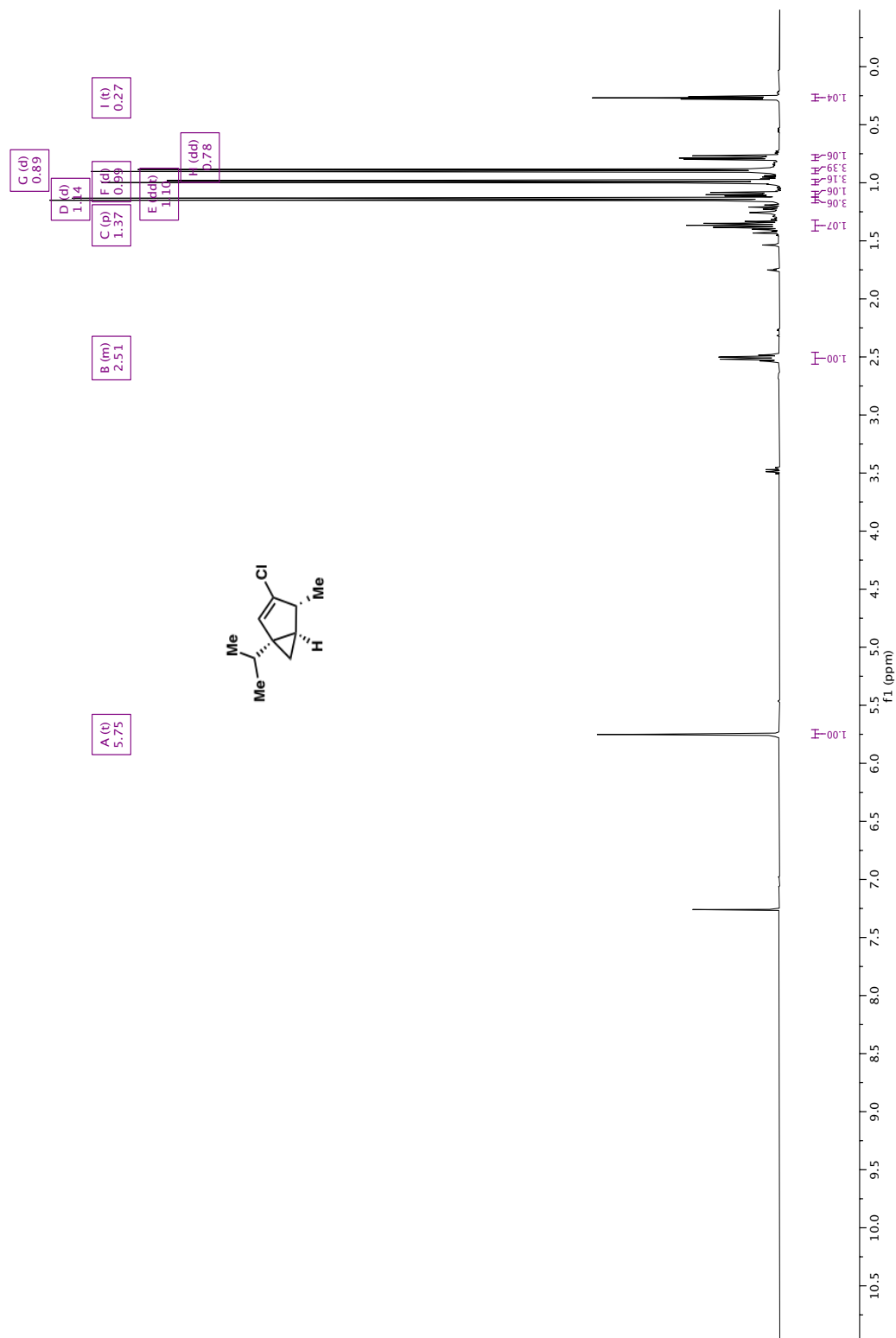
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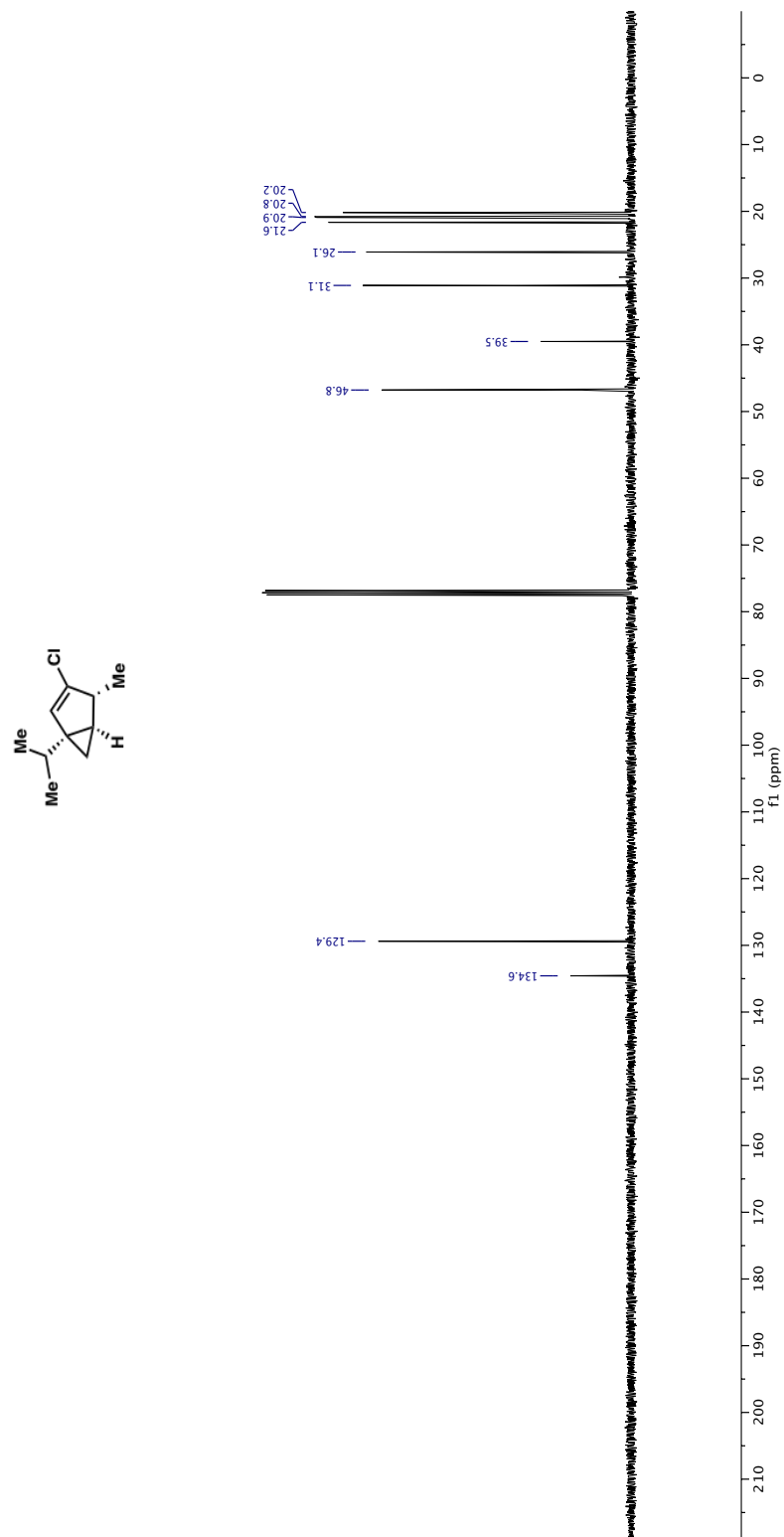


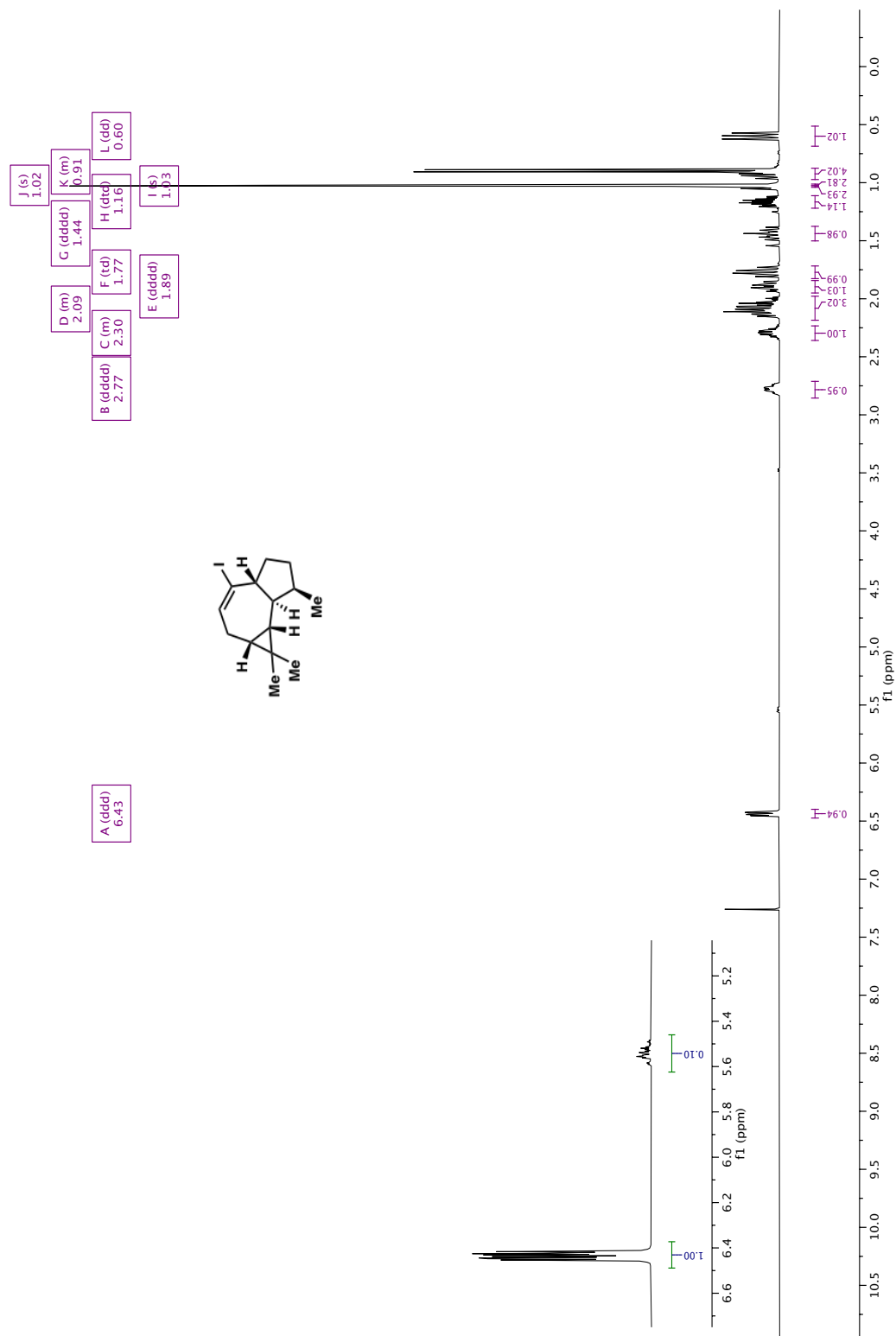


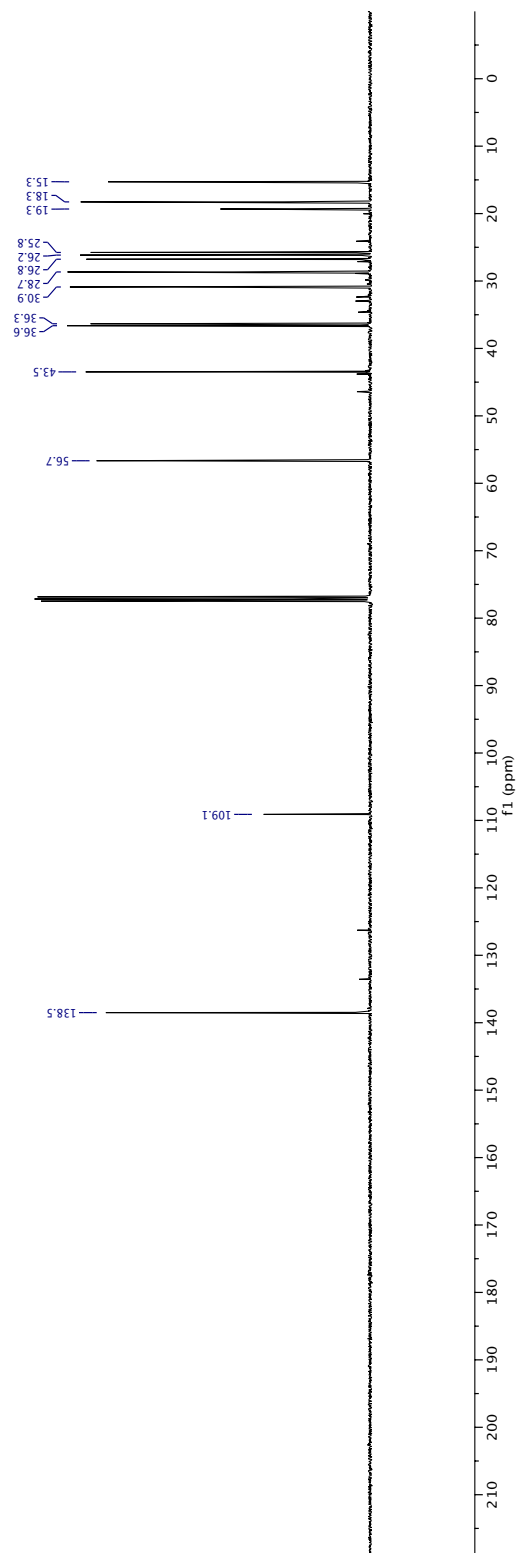
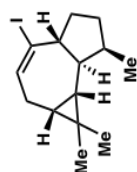


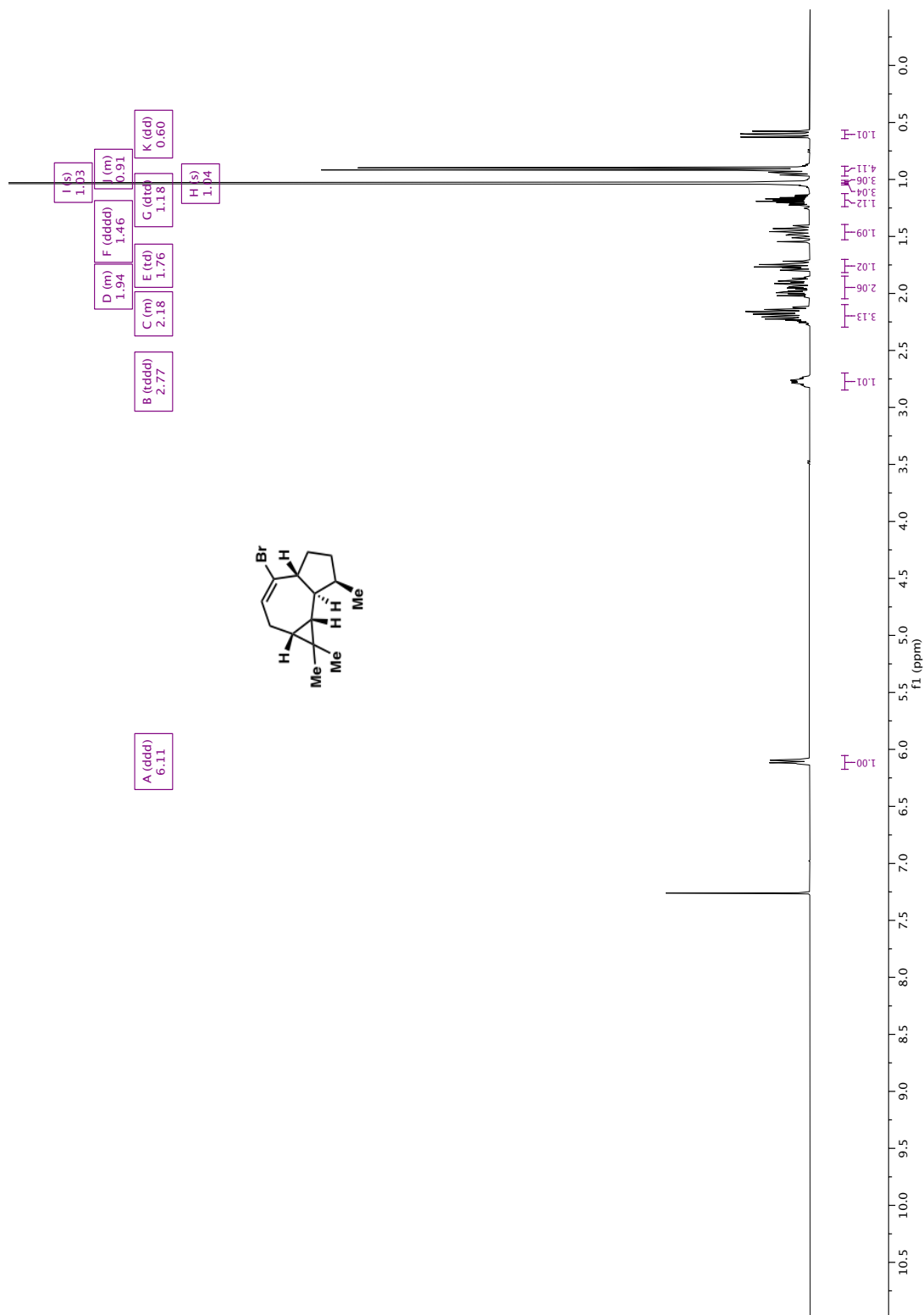


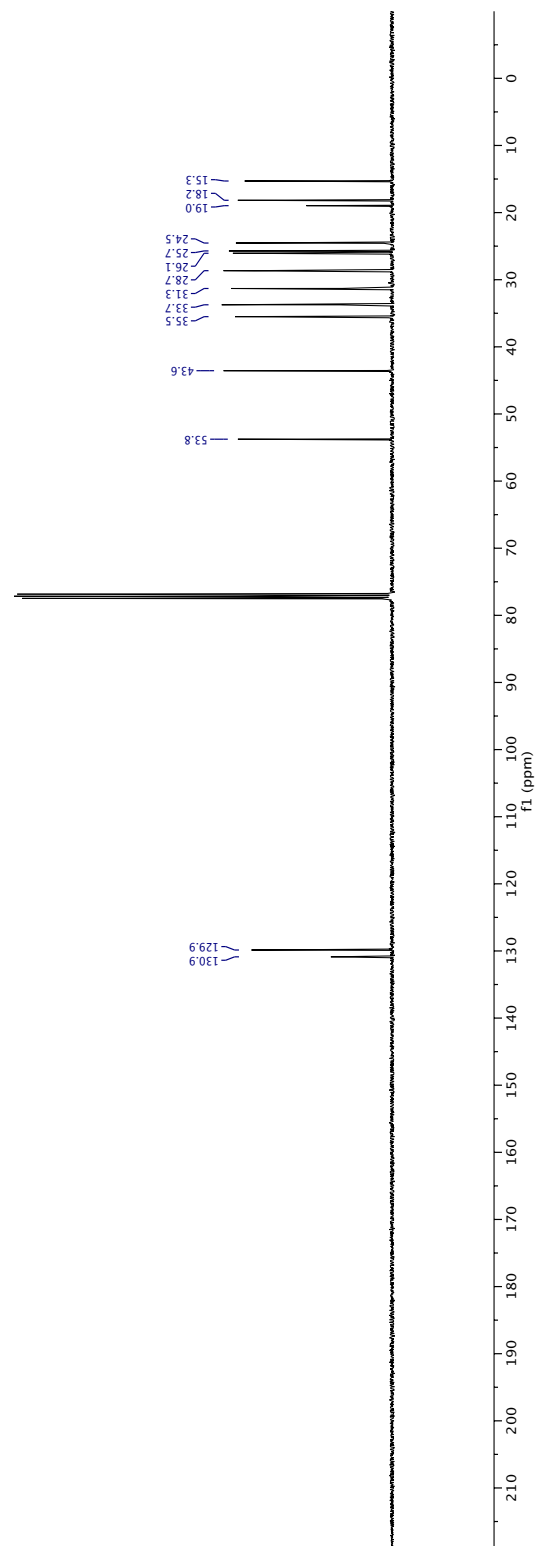
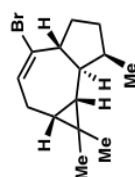


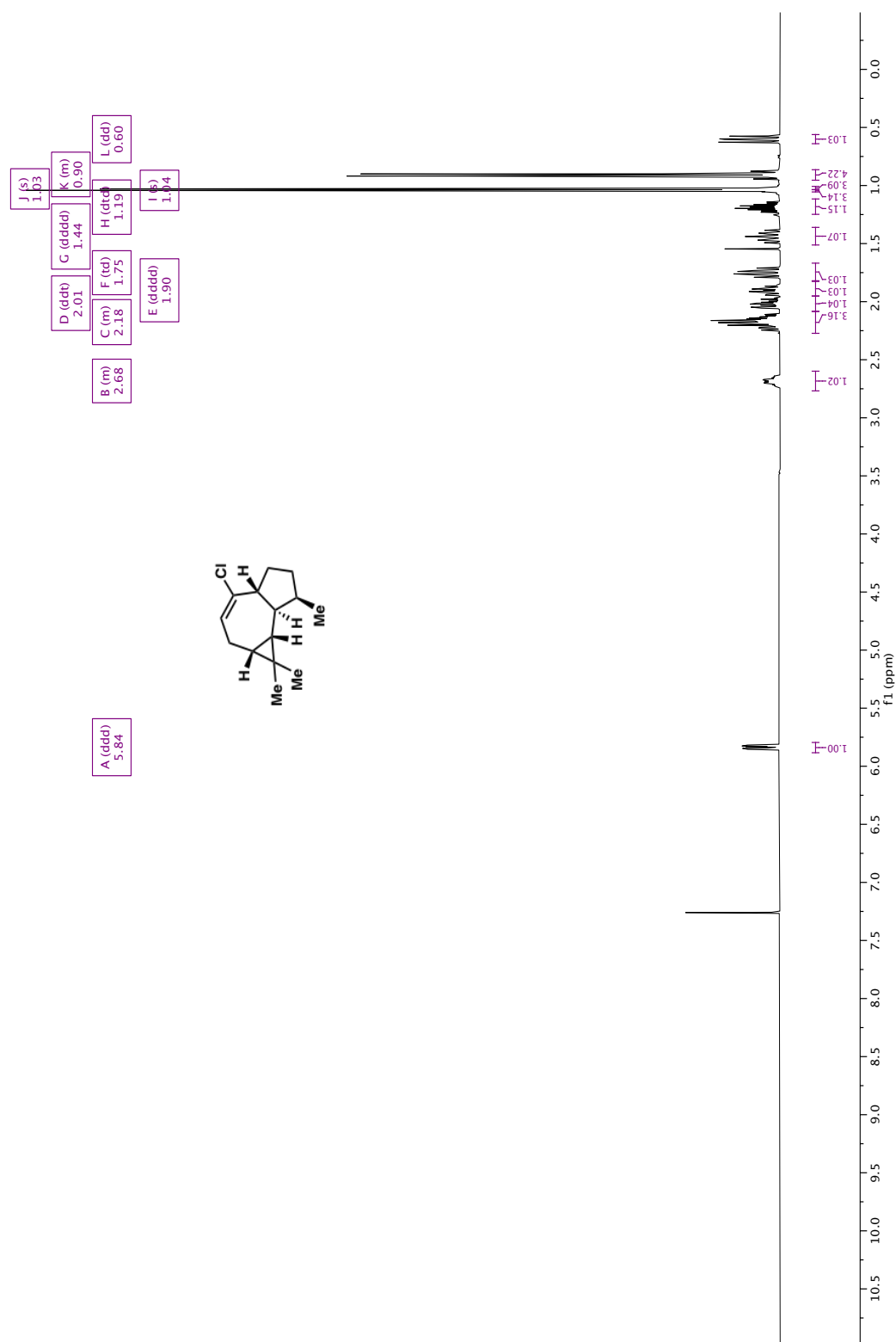


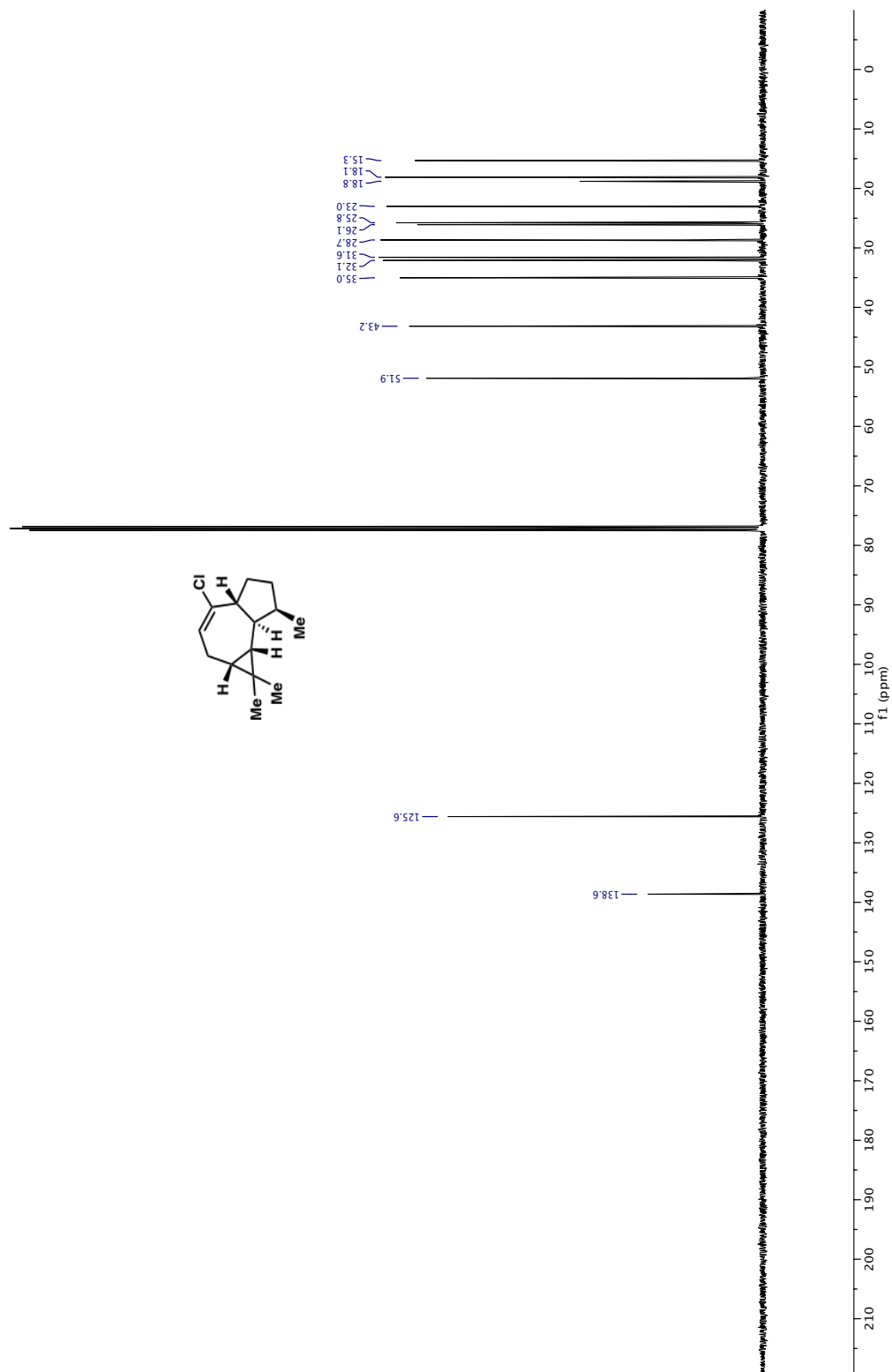


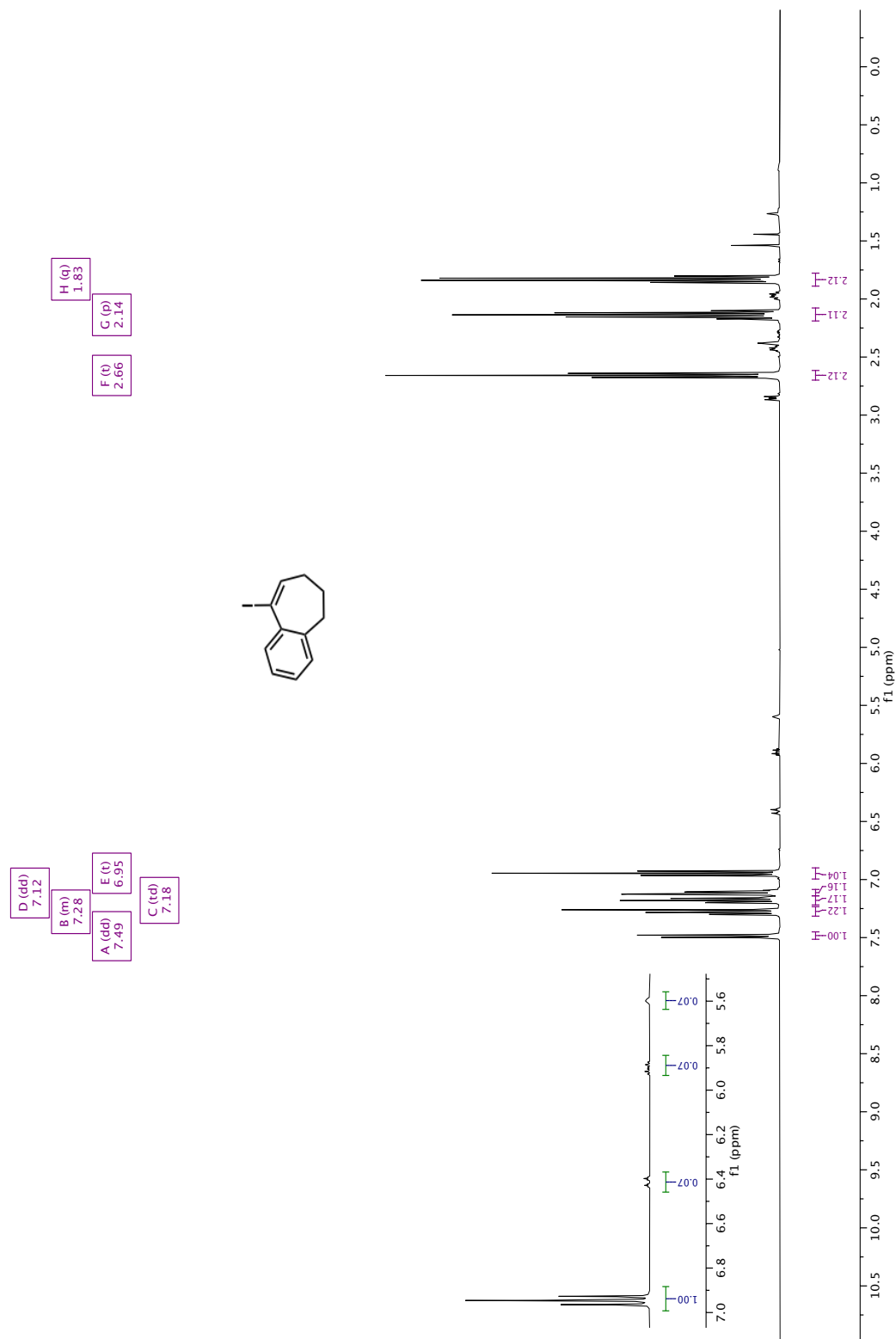


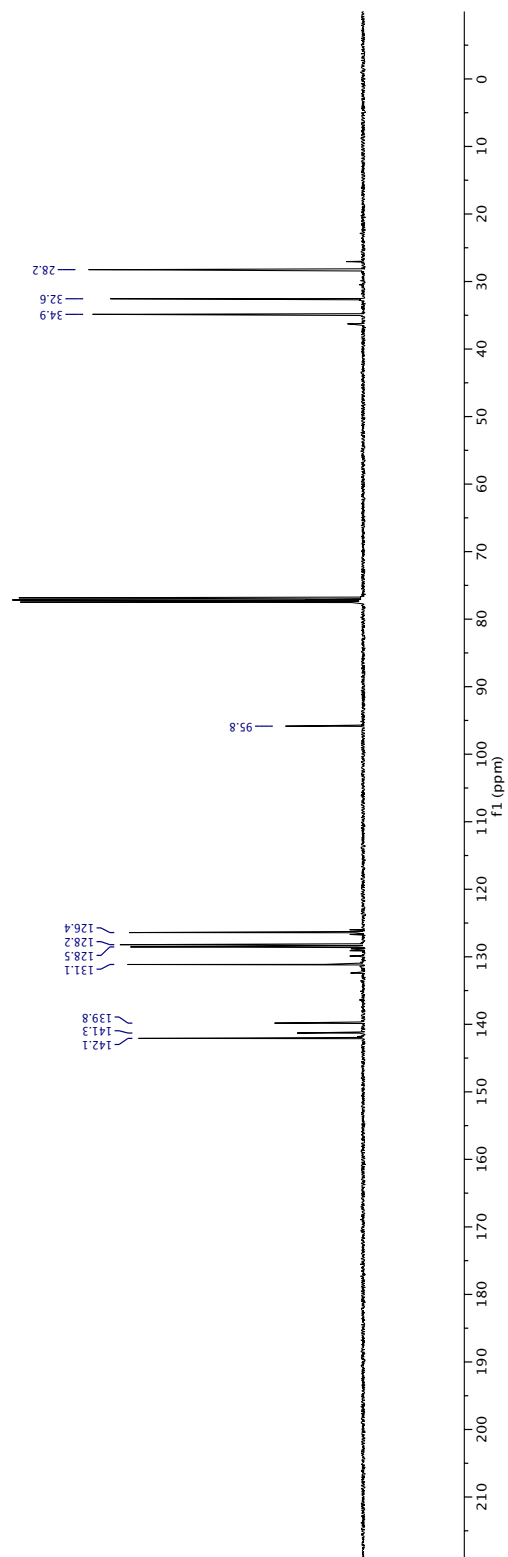
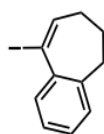


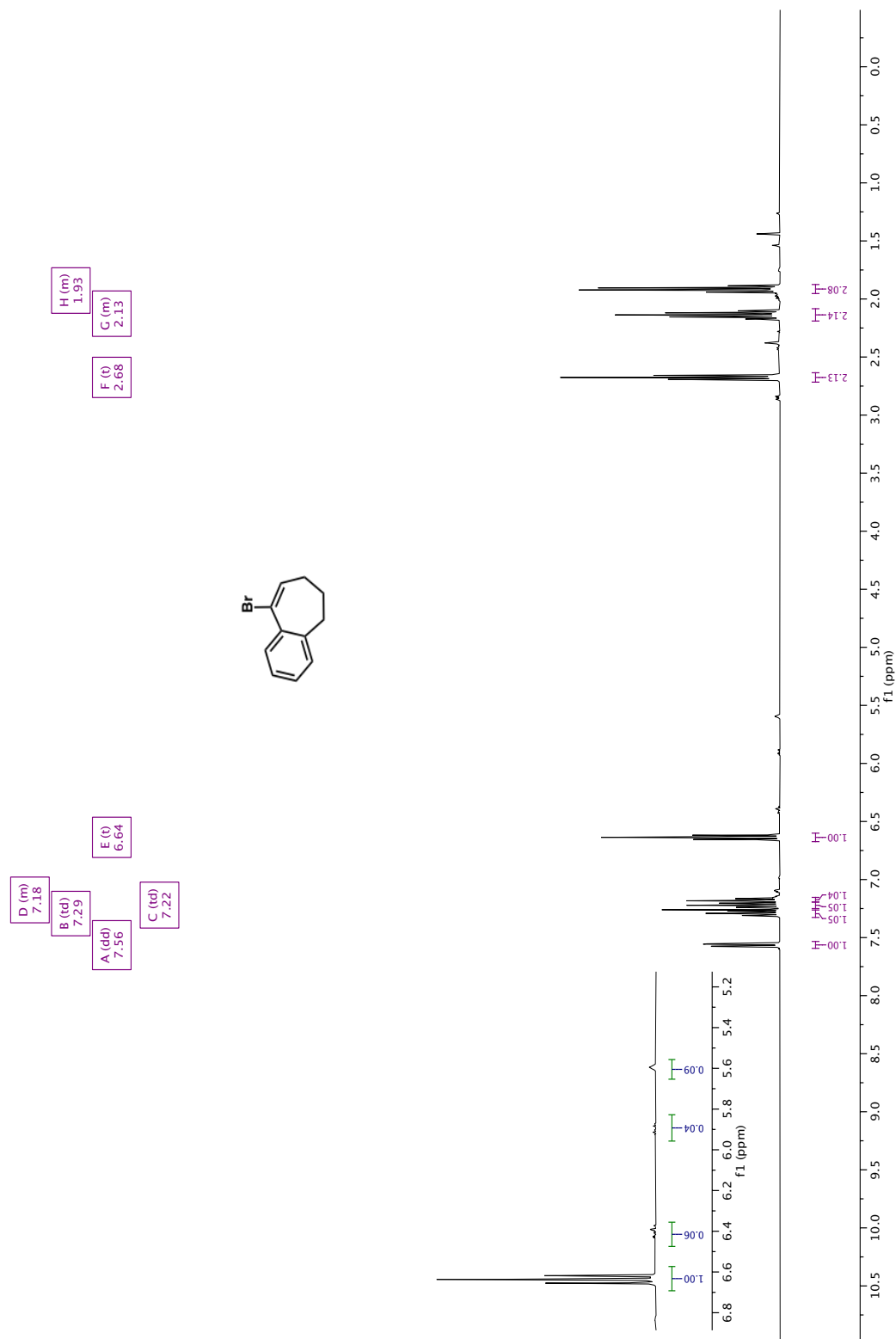


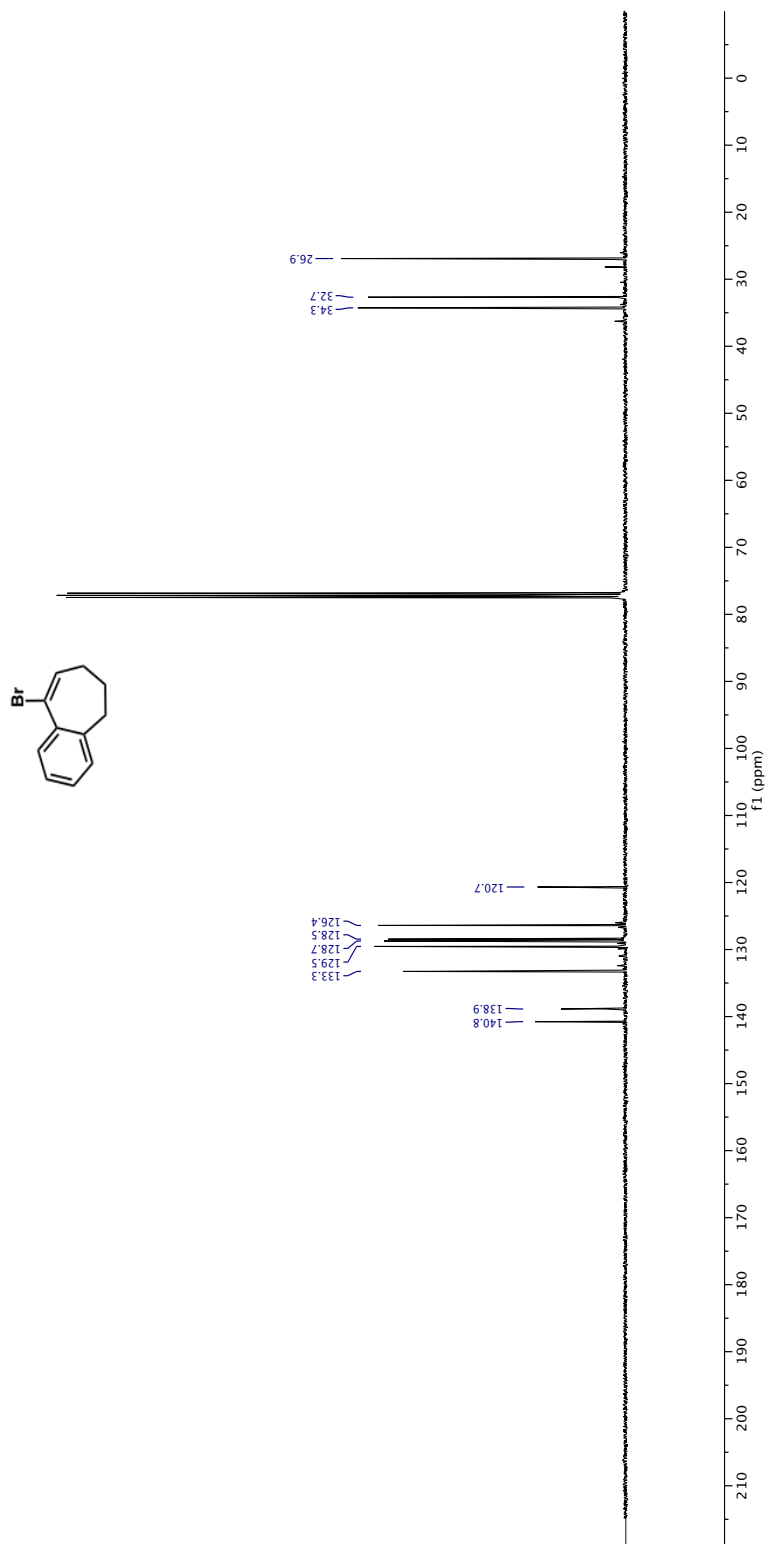


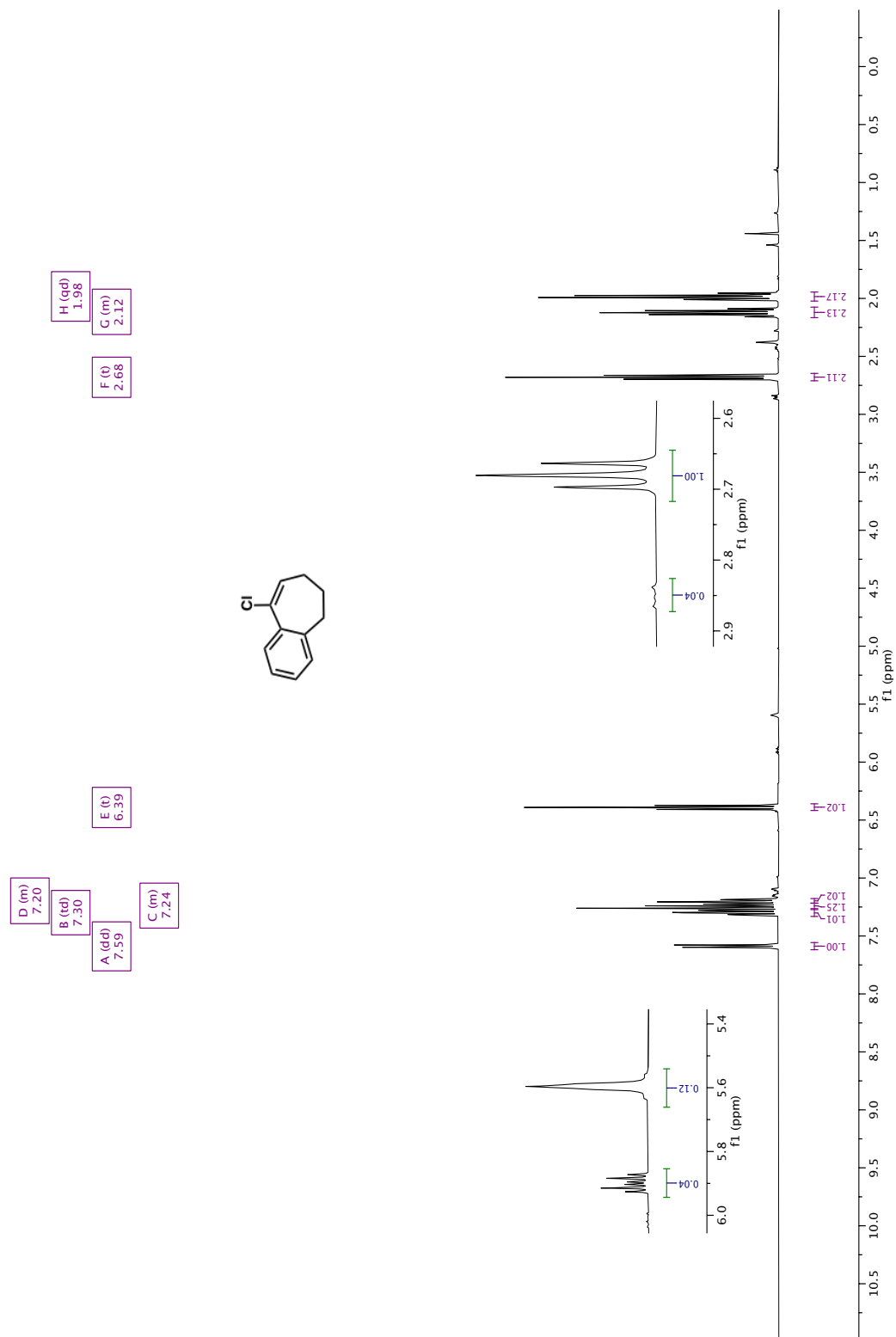


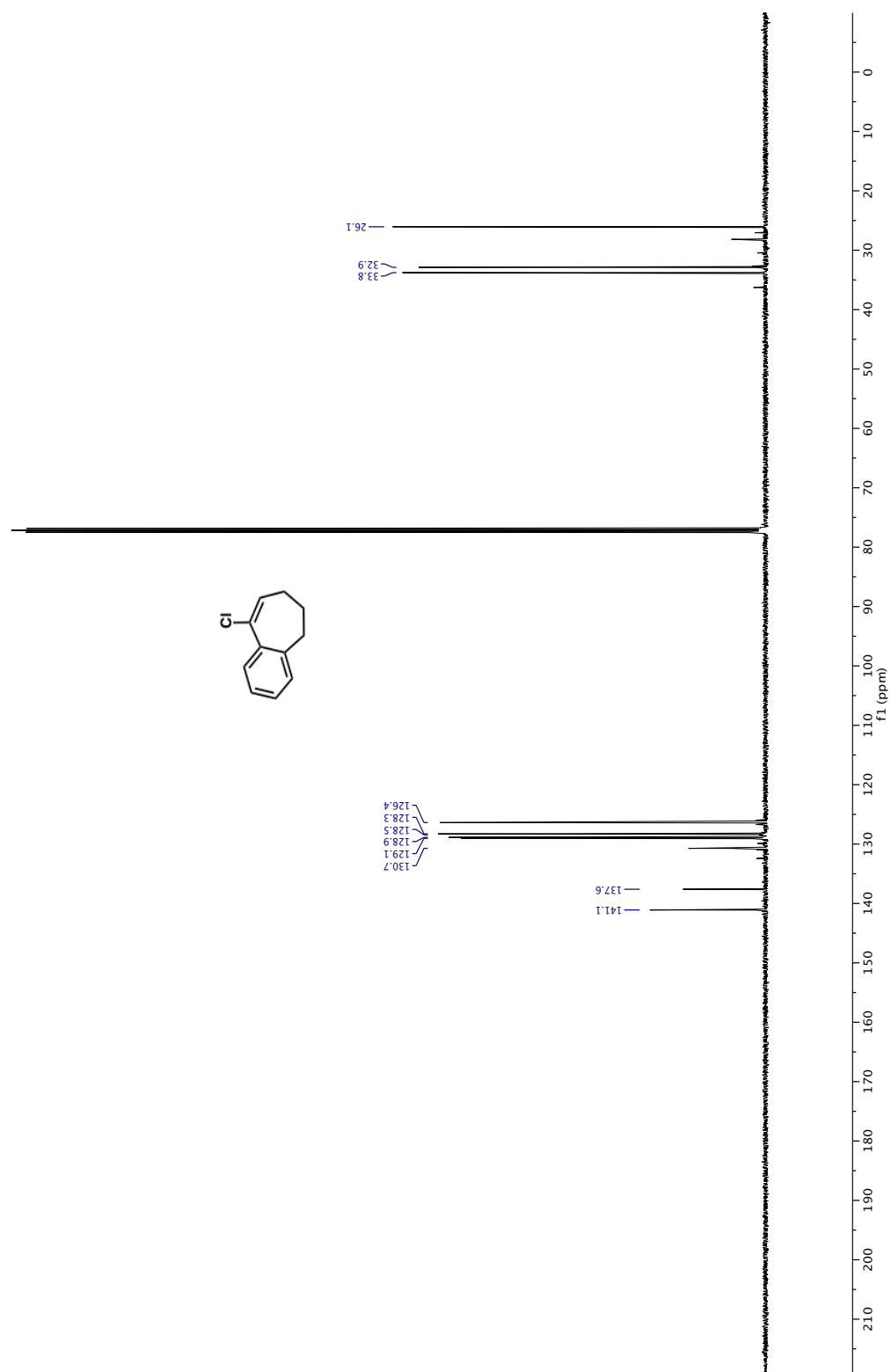


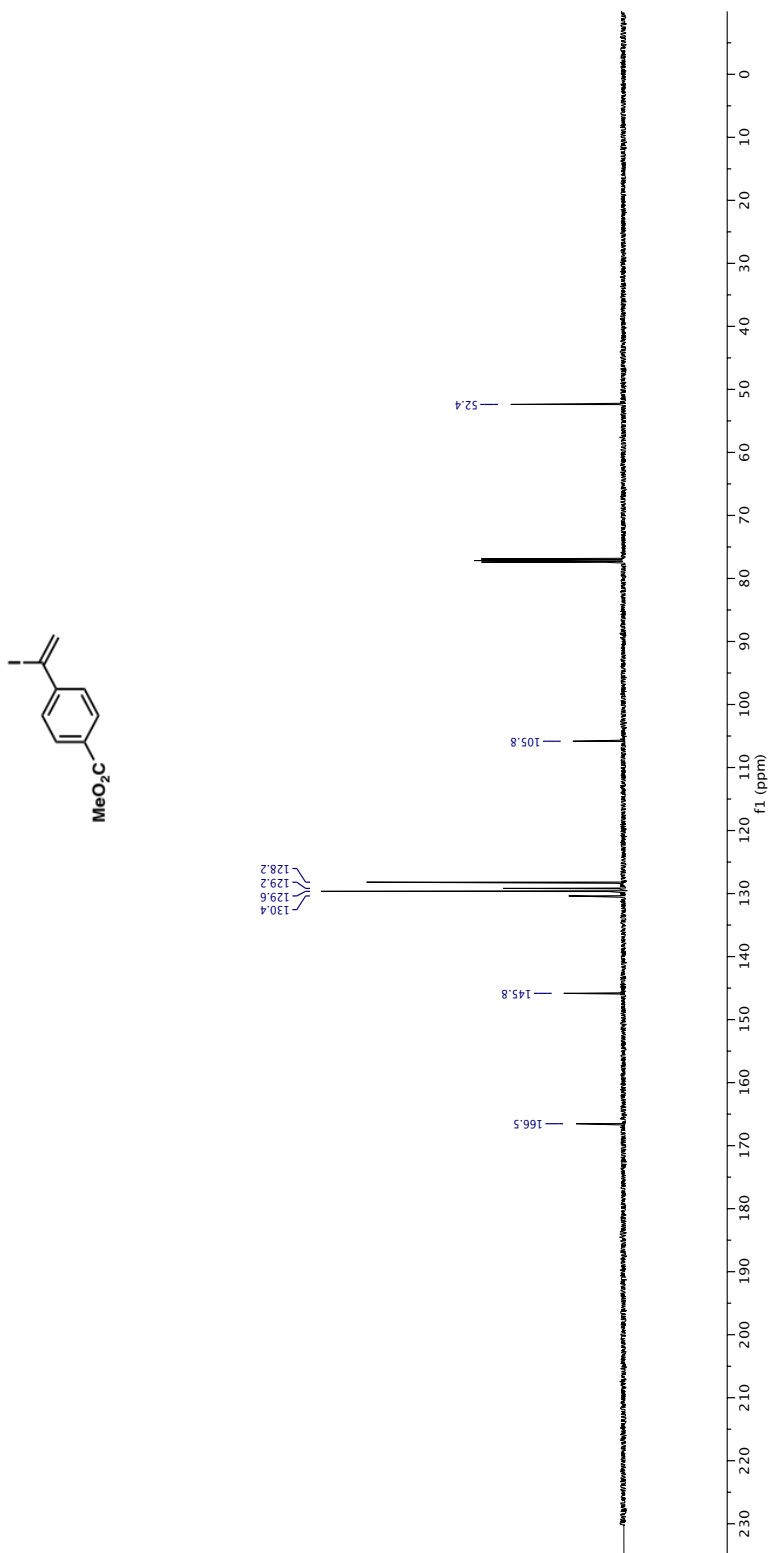


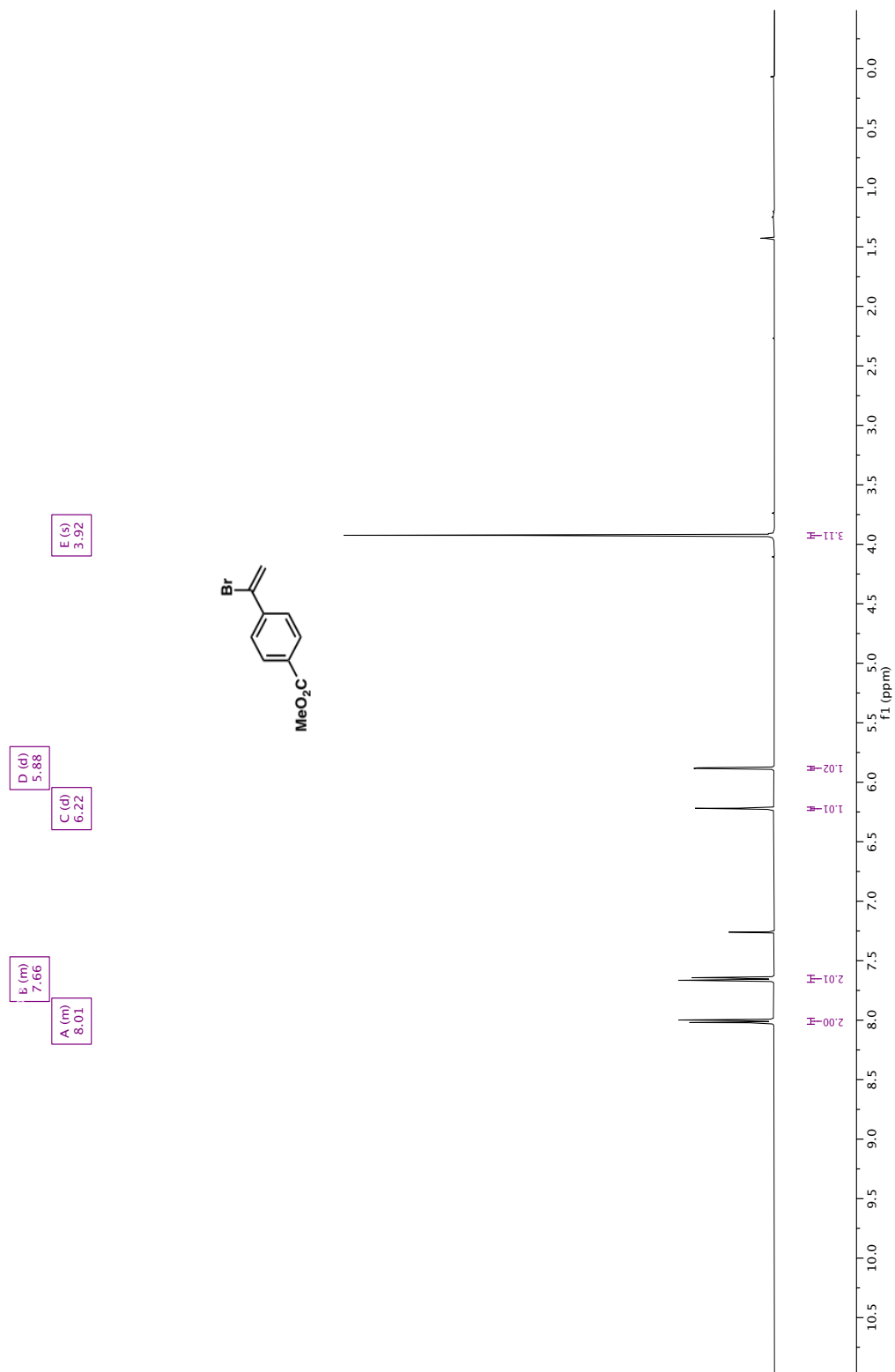


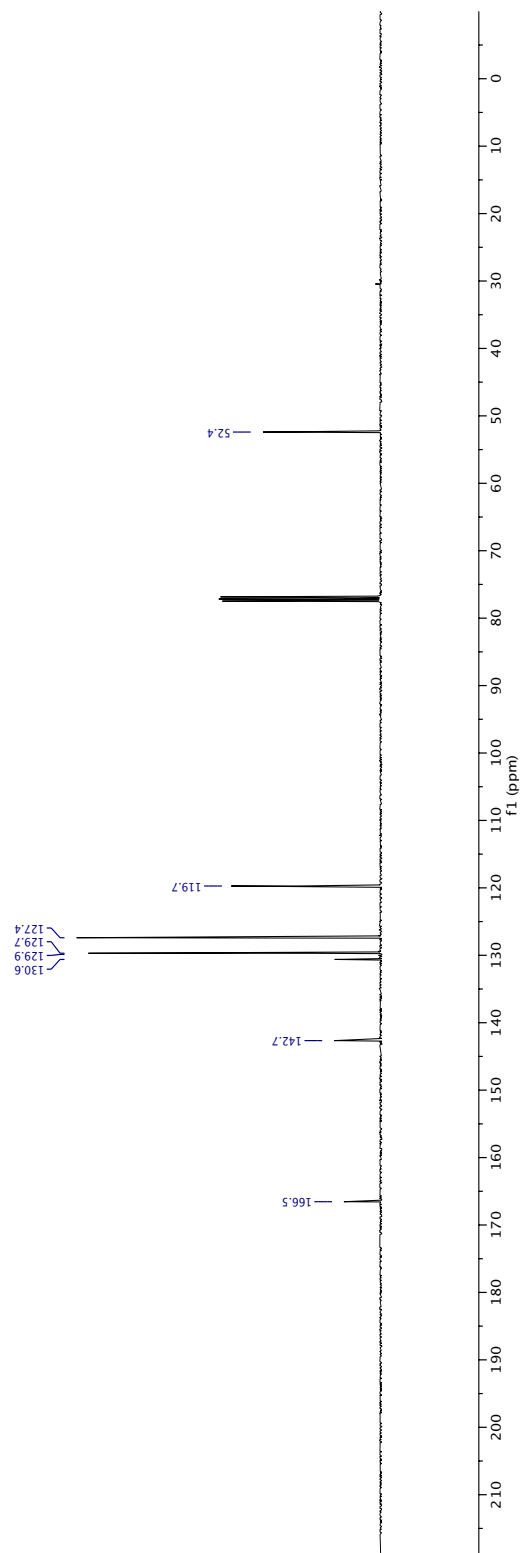
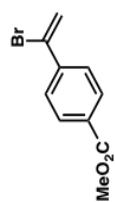


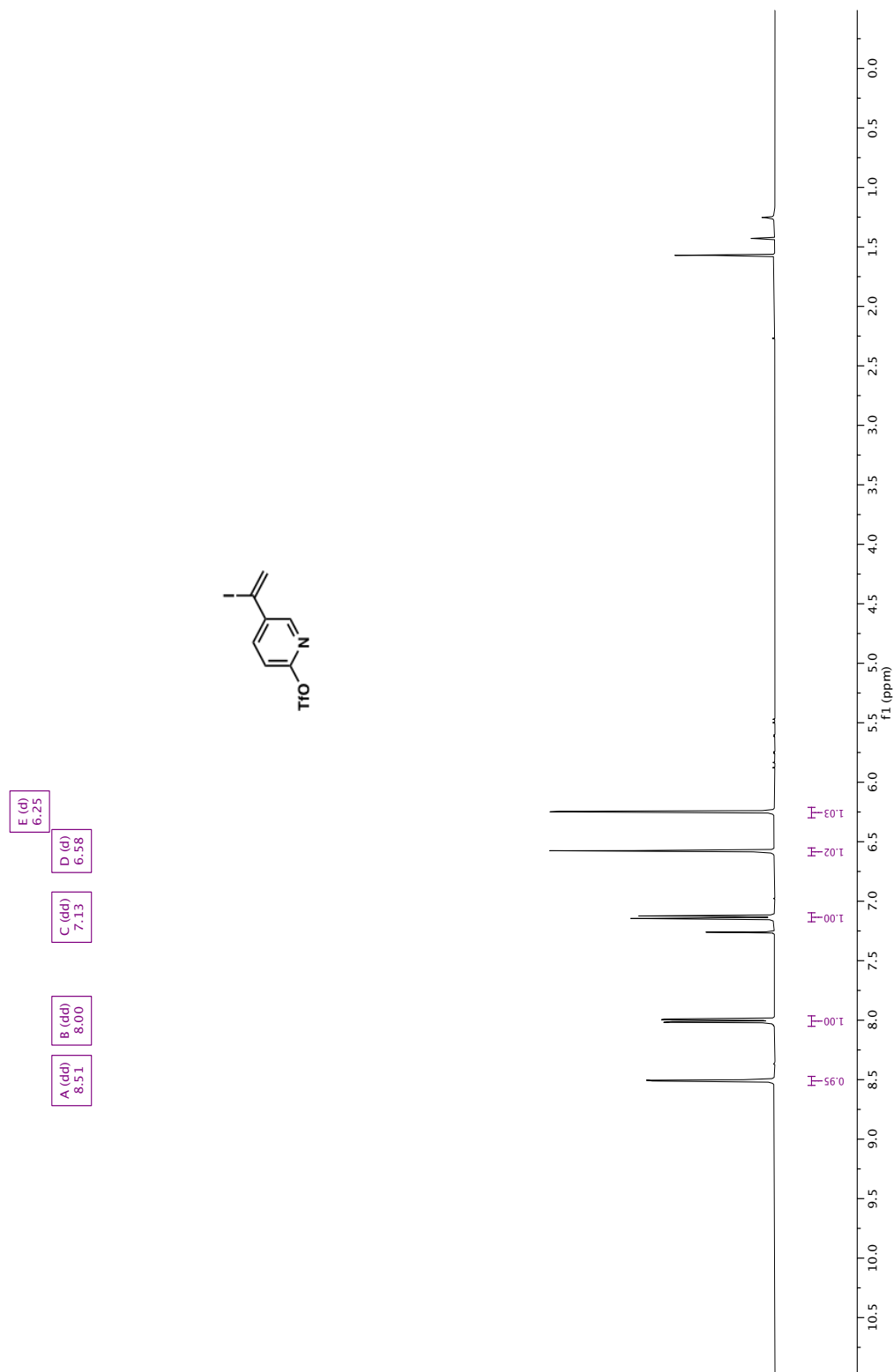


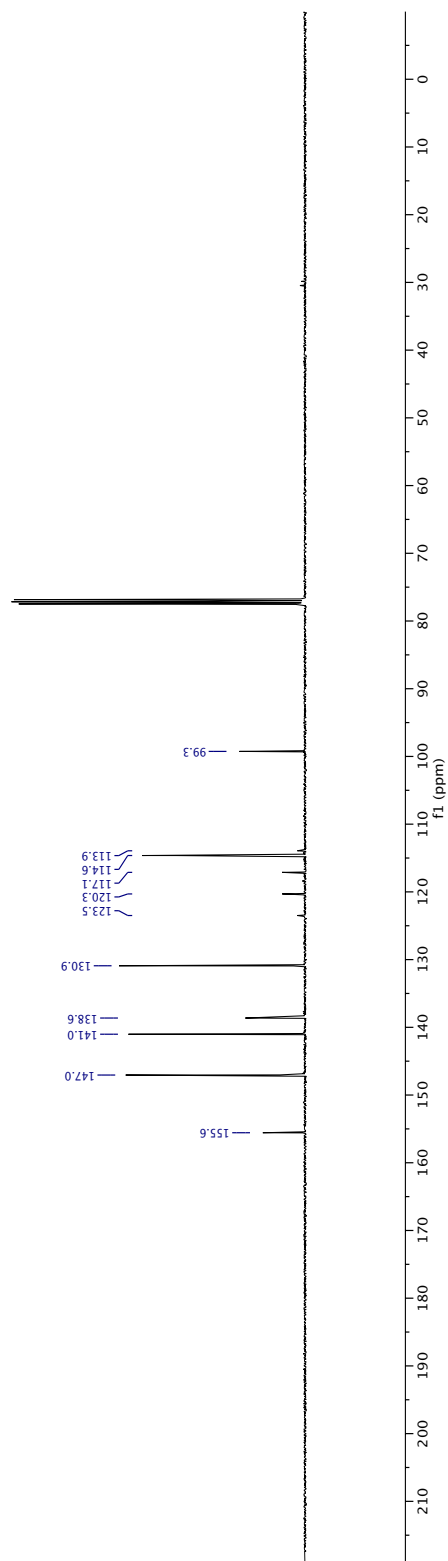
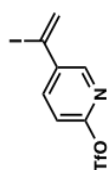


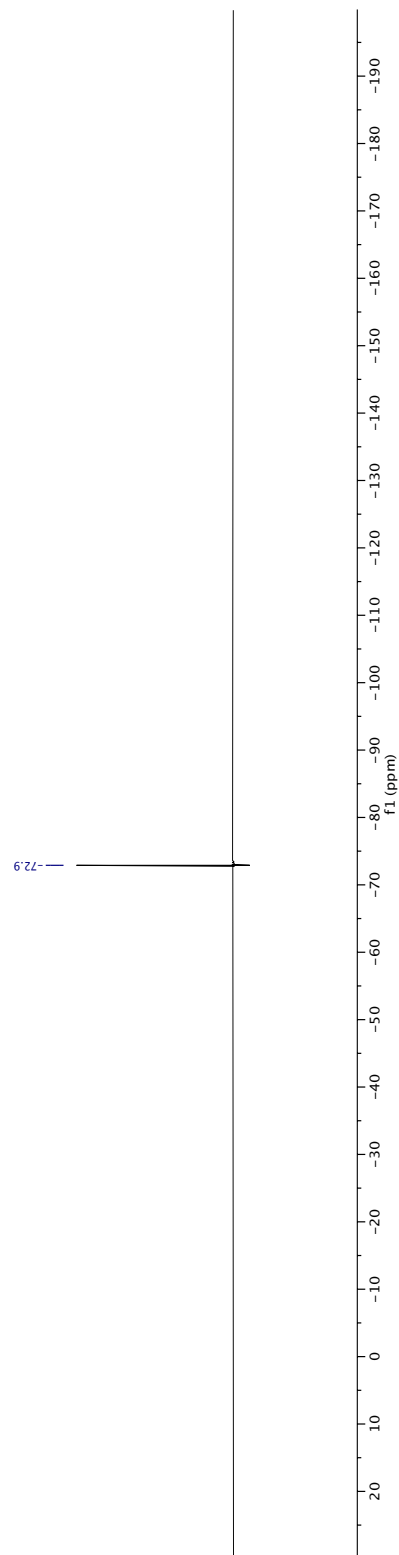
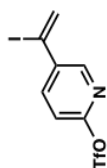




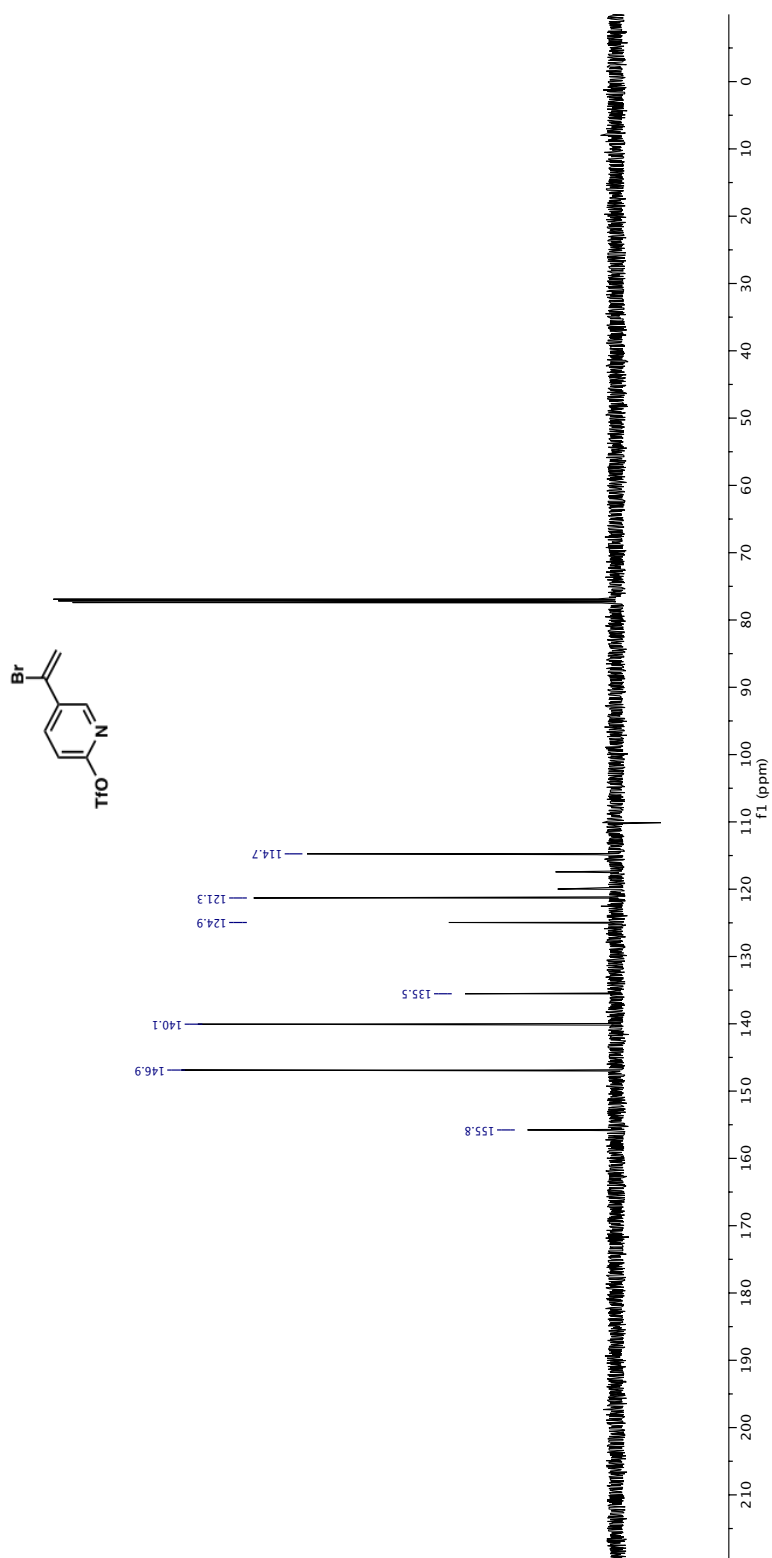


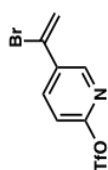






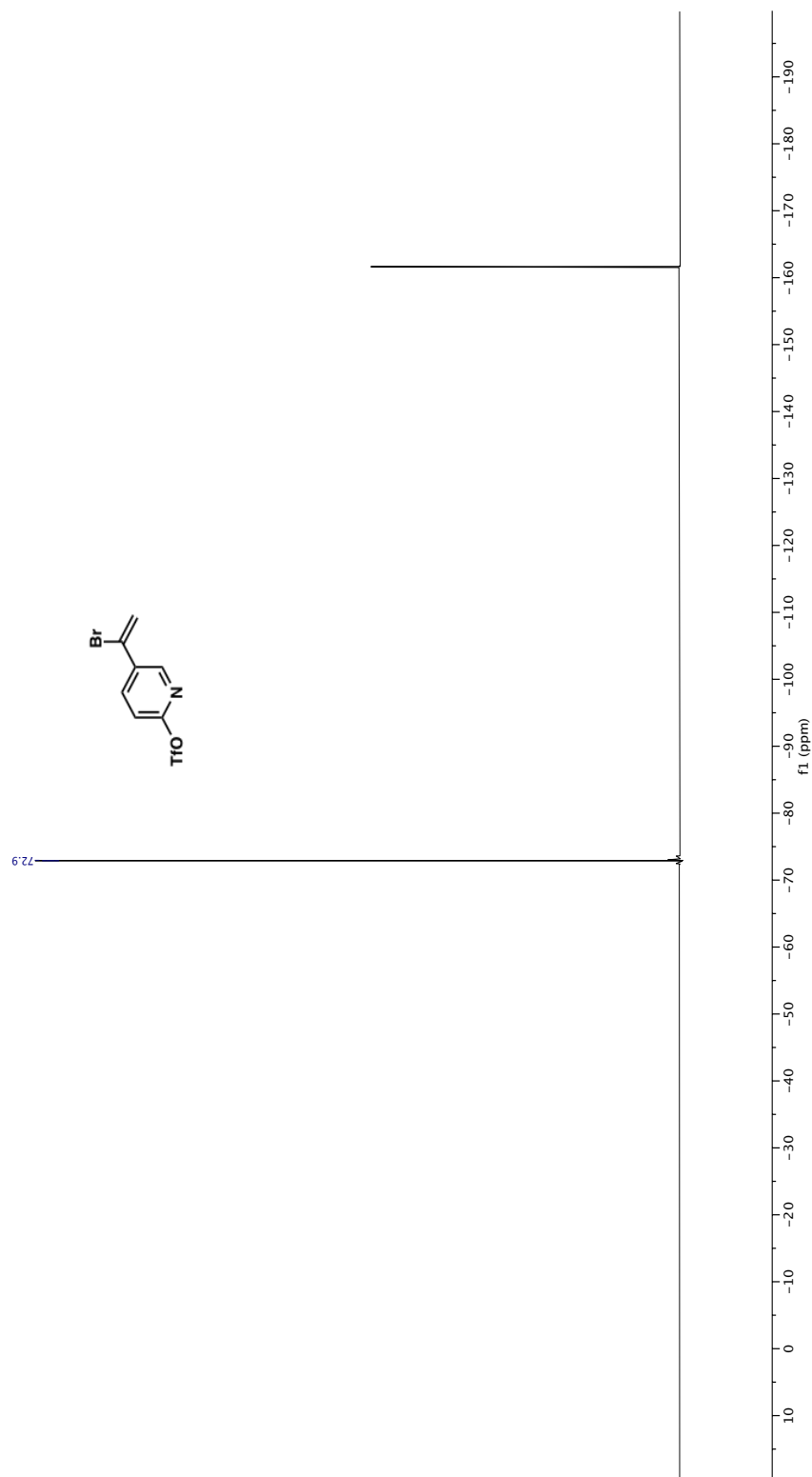


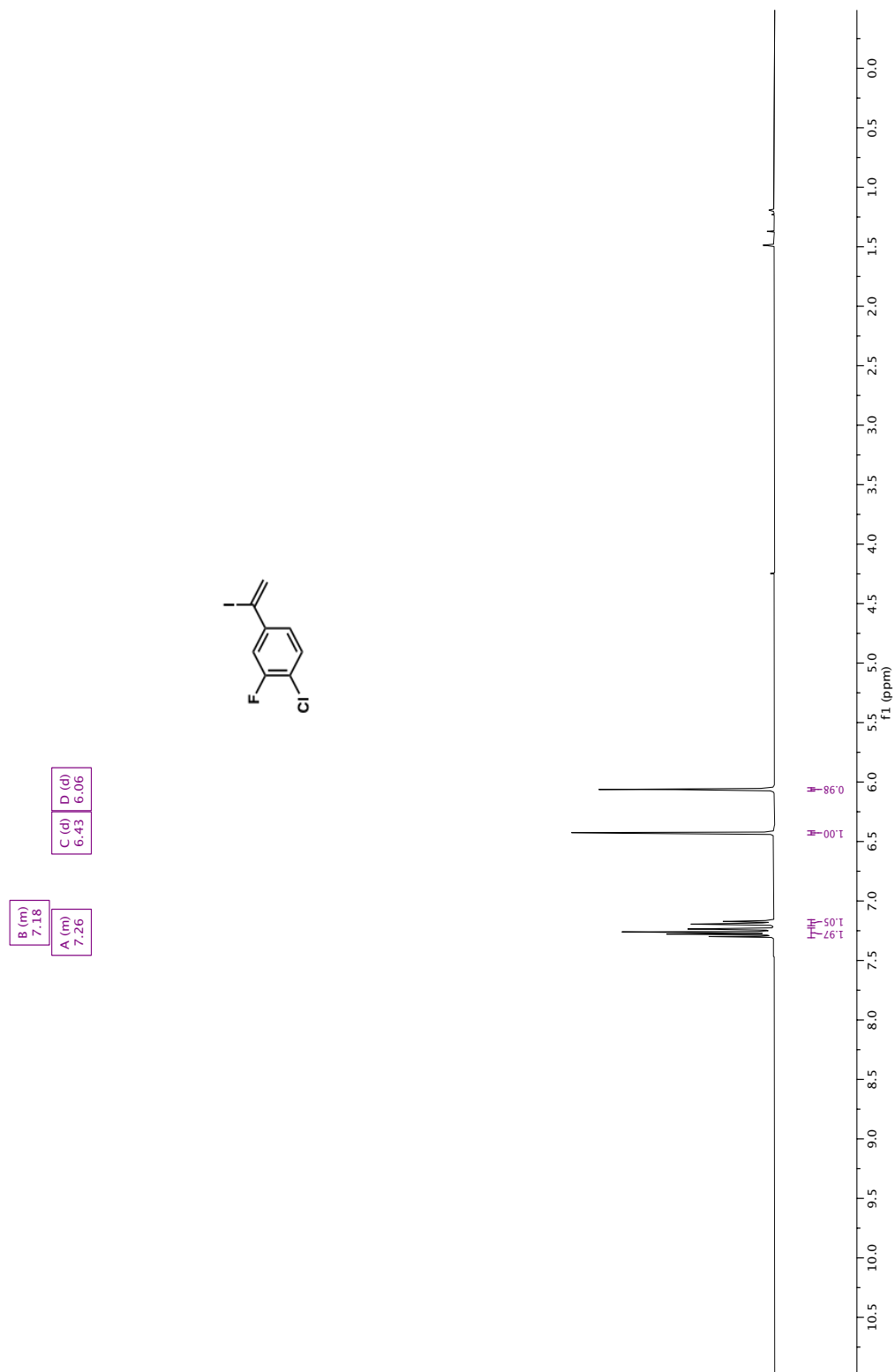


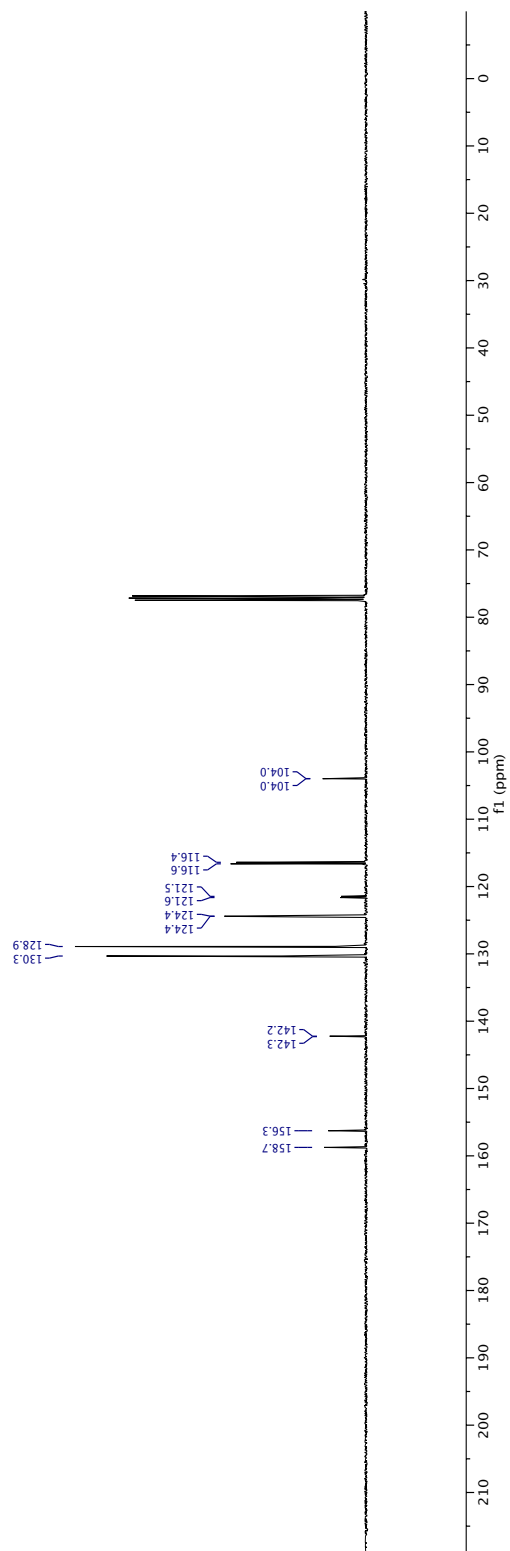
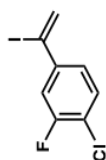


-72.9

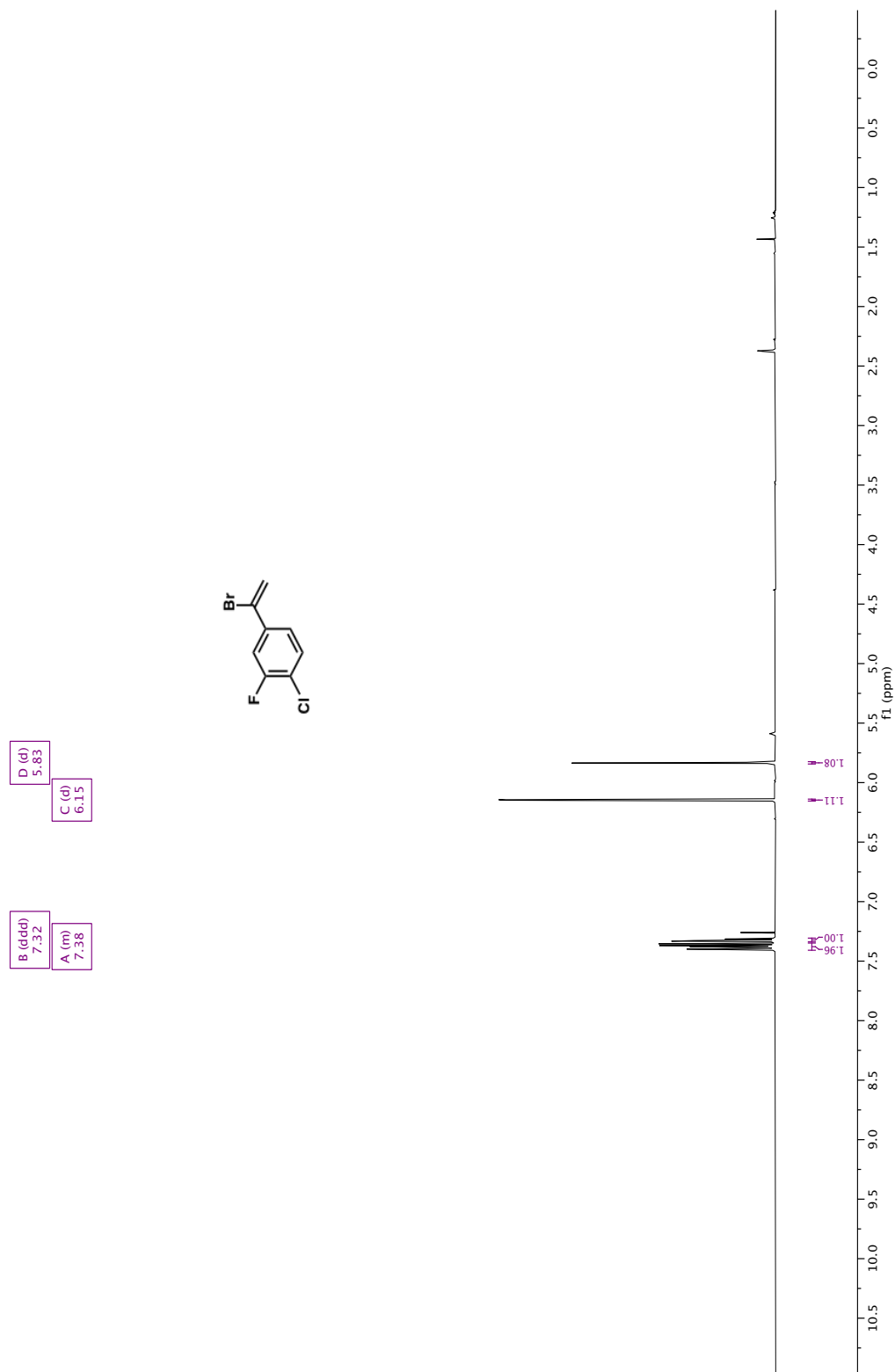
f1 (ppm)



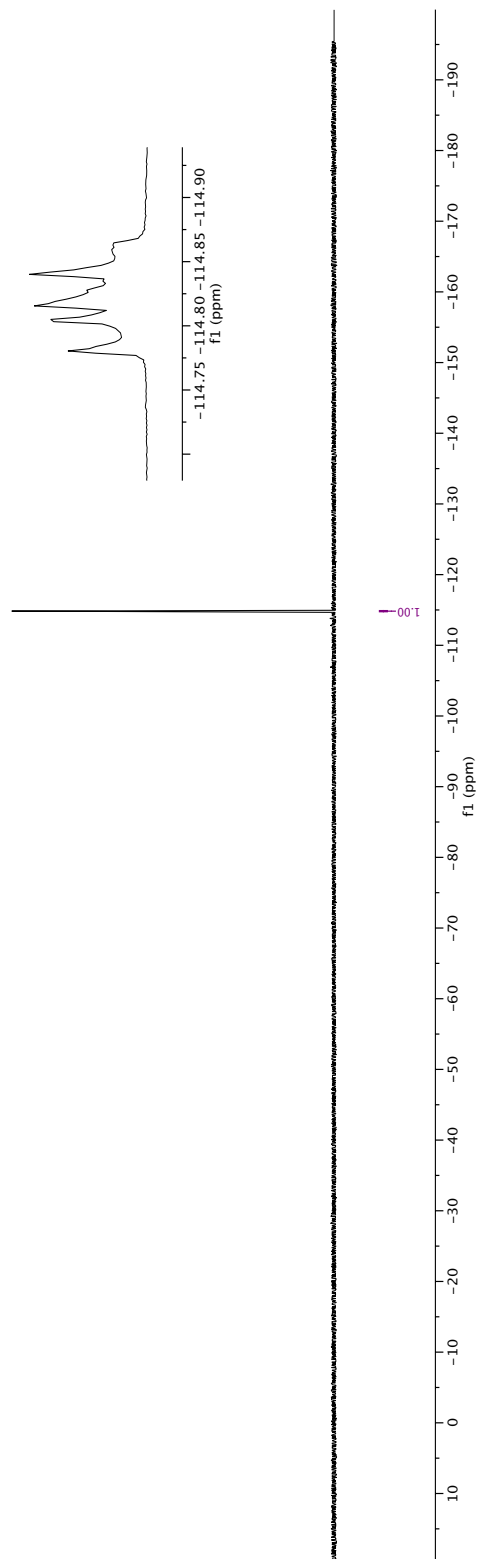
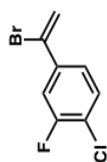


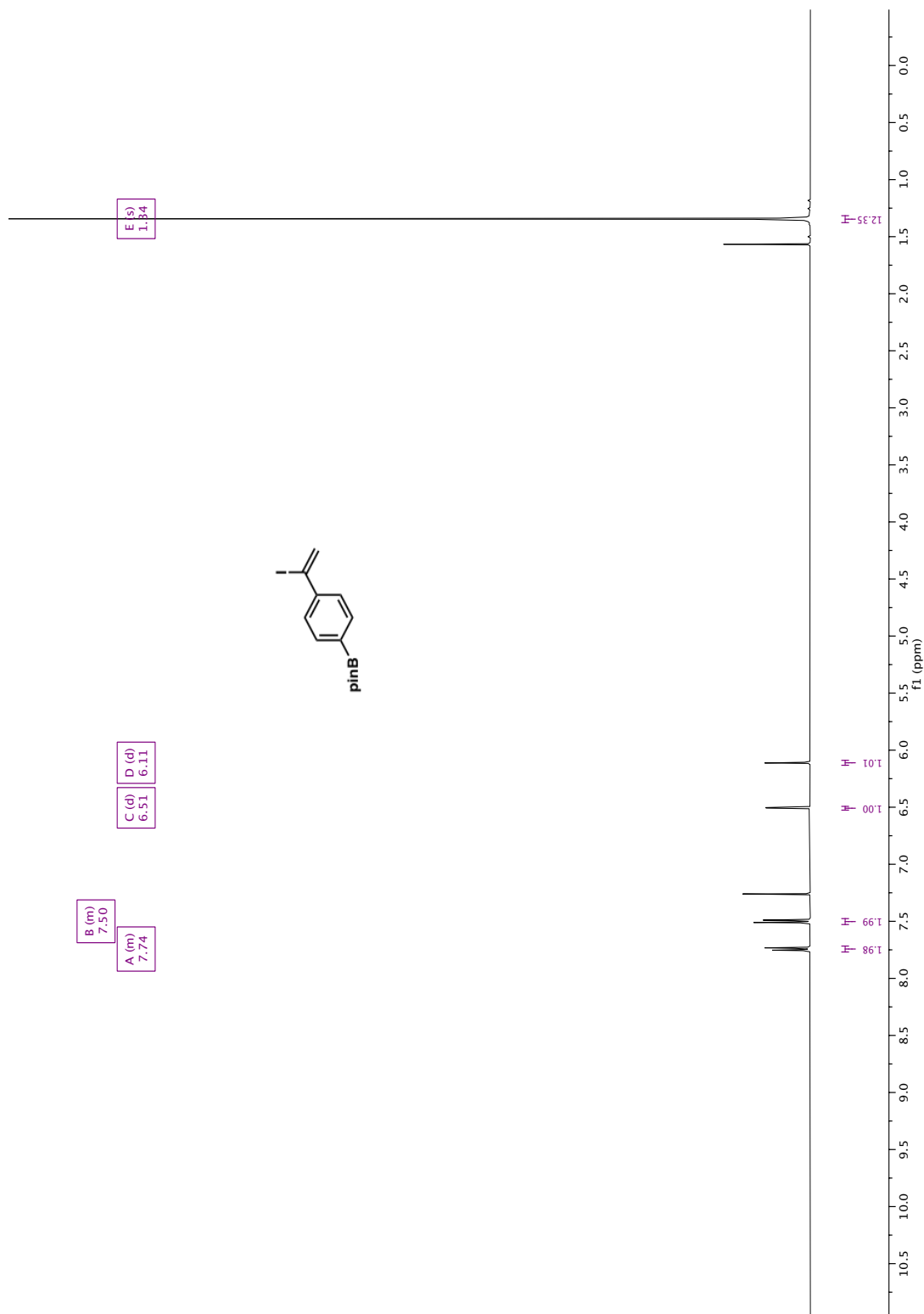


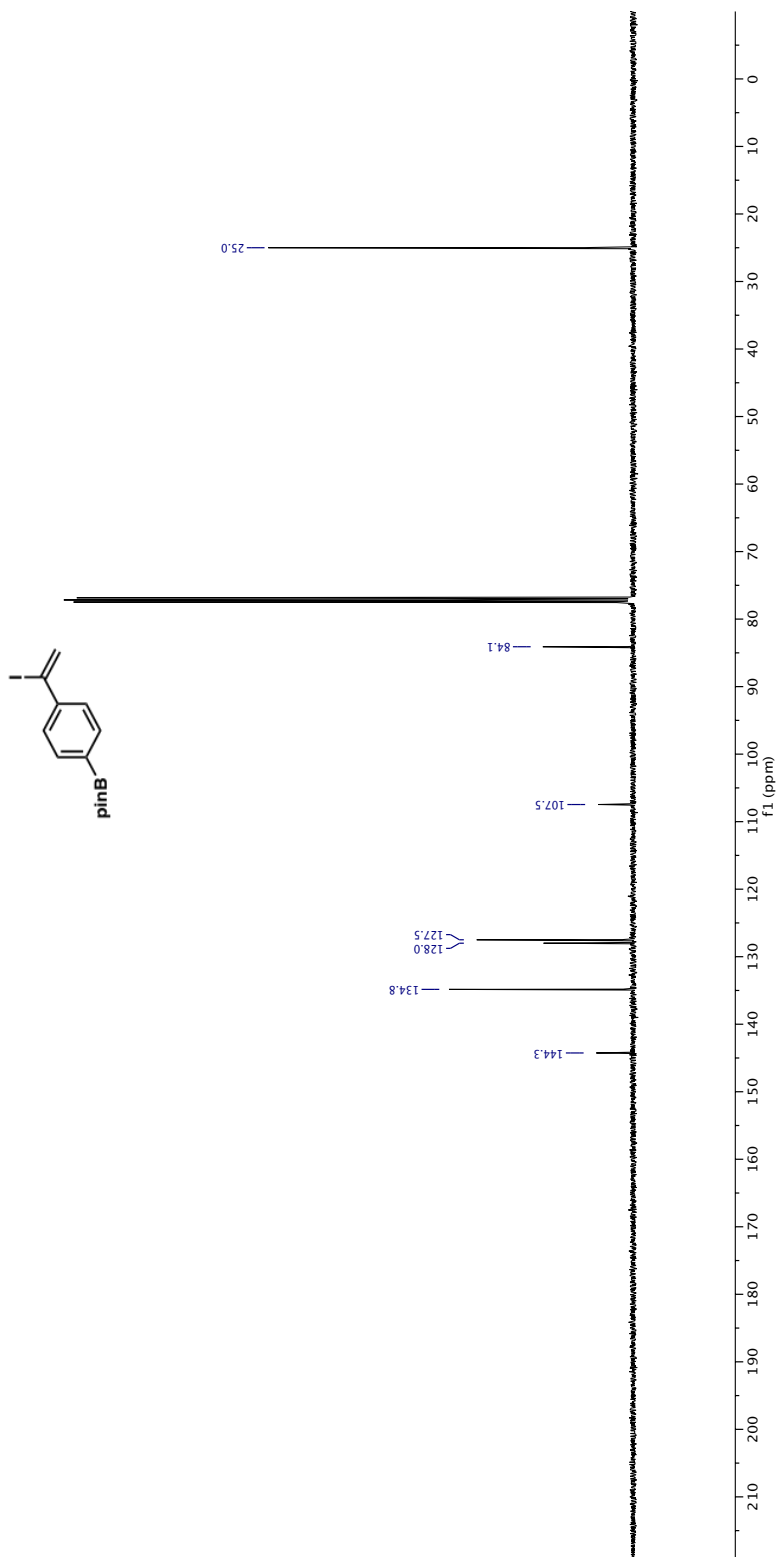




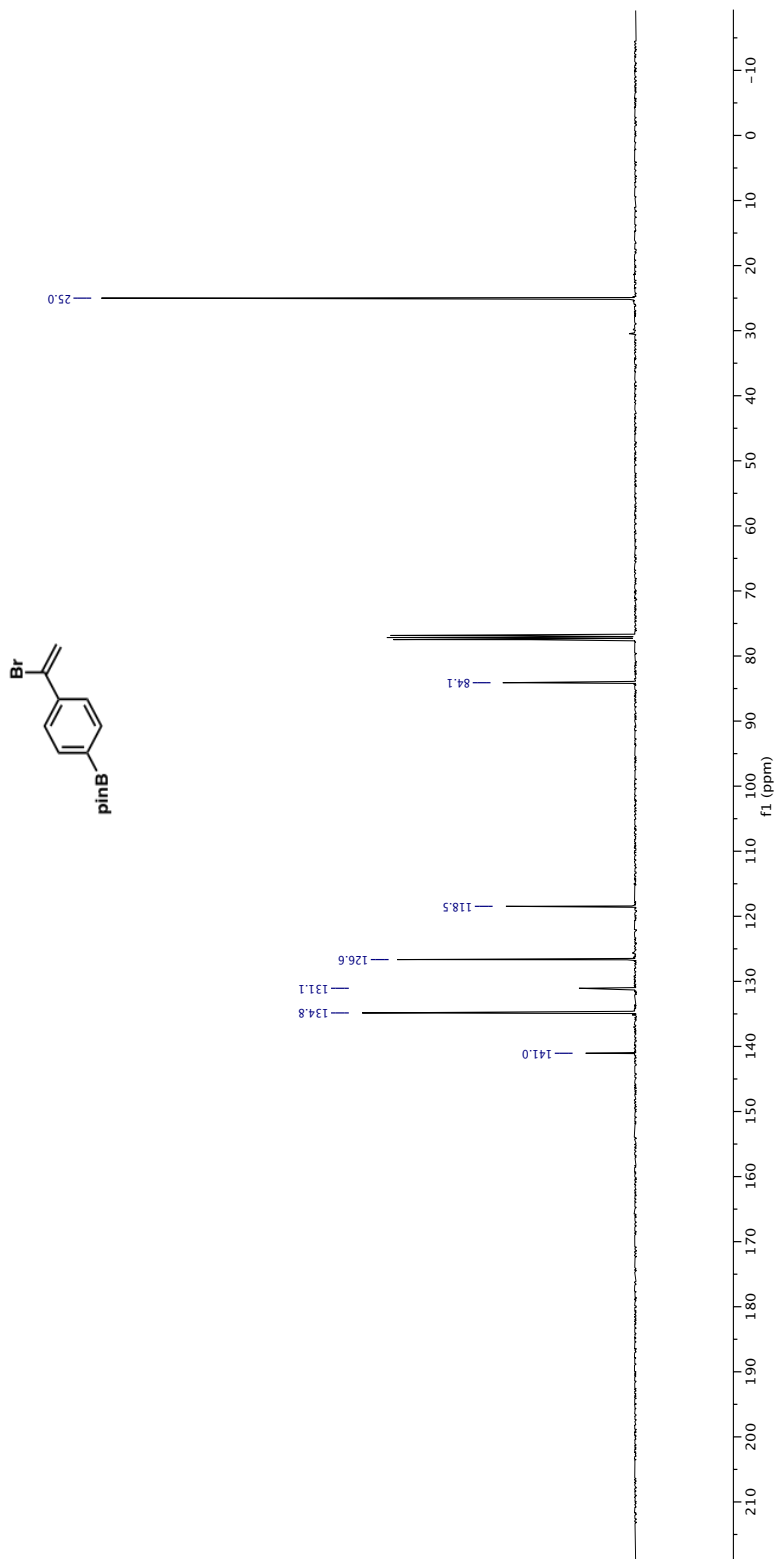
A (m)
-114.82

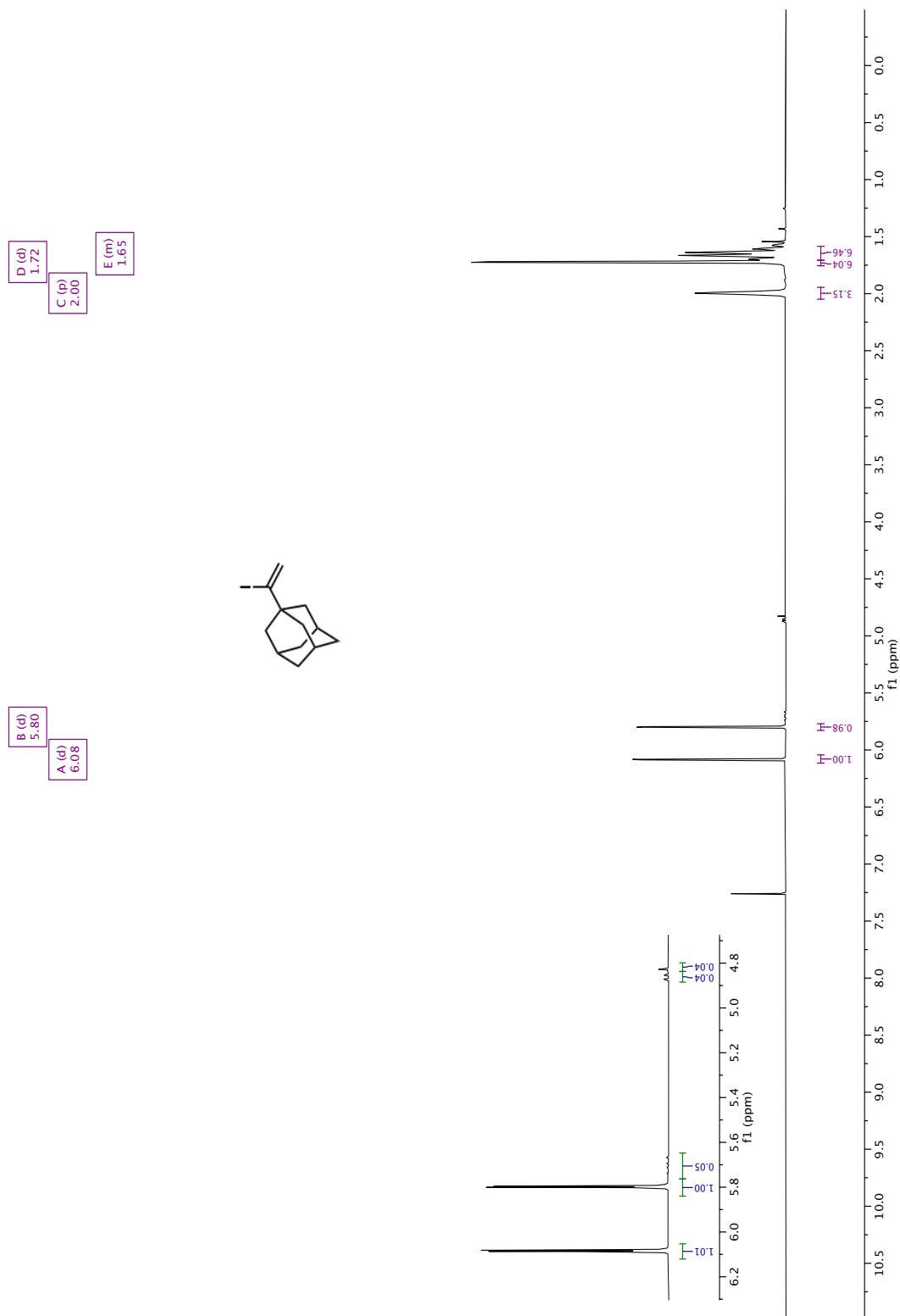


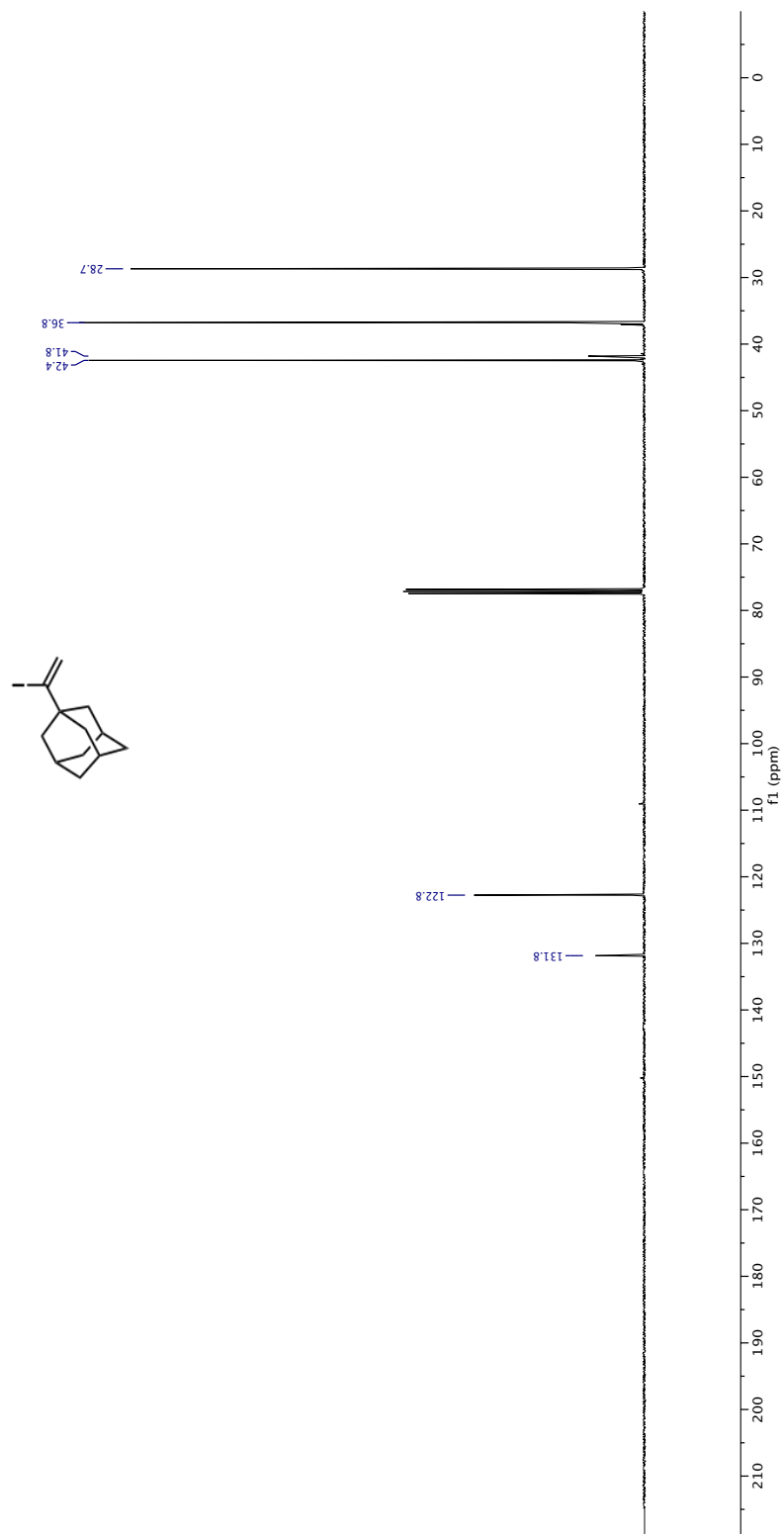












D (m)
1.79

C (dd)
2.03

E (m)
1.68

B (d)
5.42

A (d)
5.56

