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Supplemental Information

Discovery of novel *N*-substituted carbazoles as neuroprotective agents with potent
anti-oxidative activity

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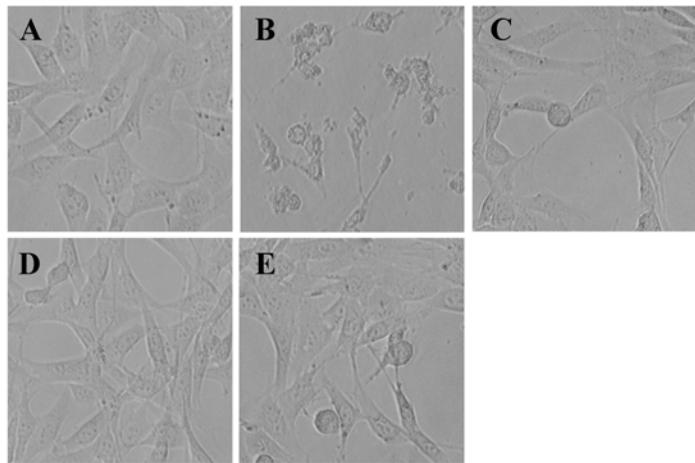
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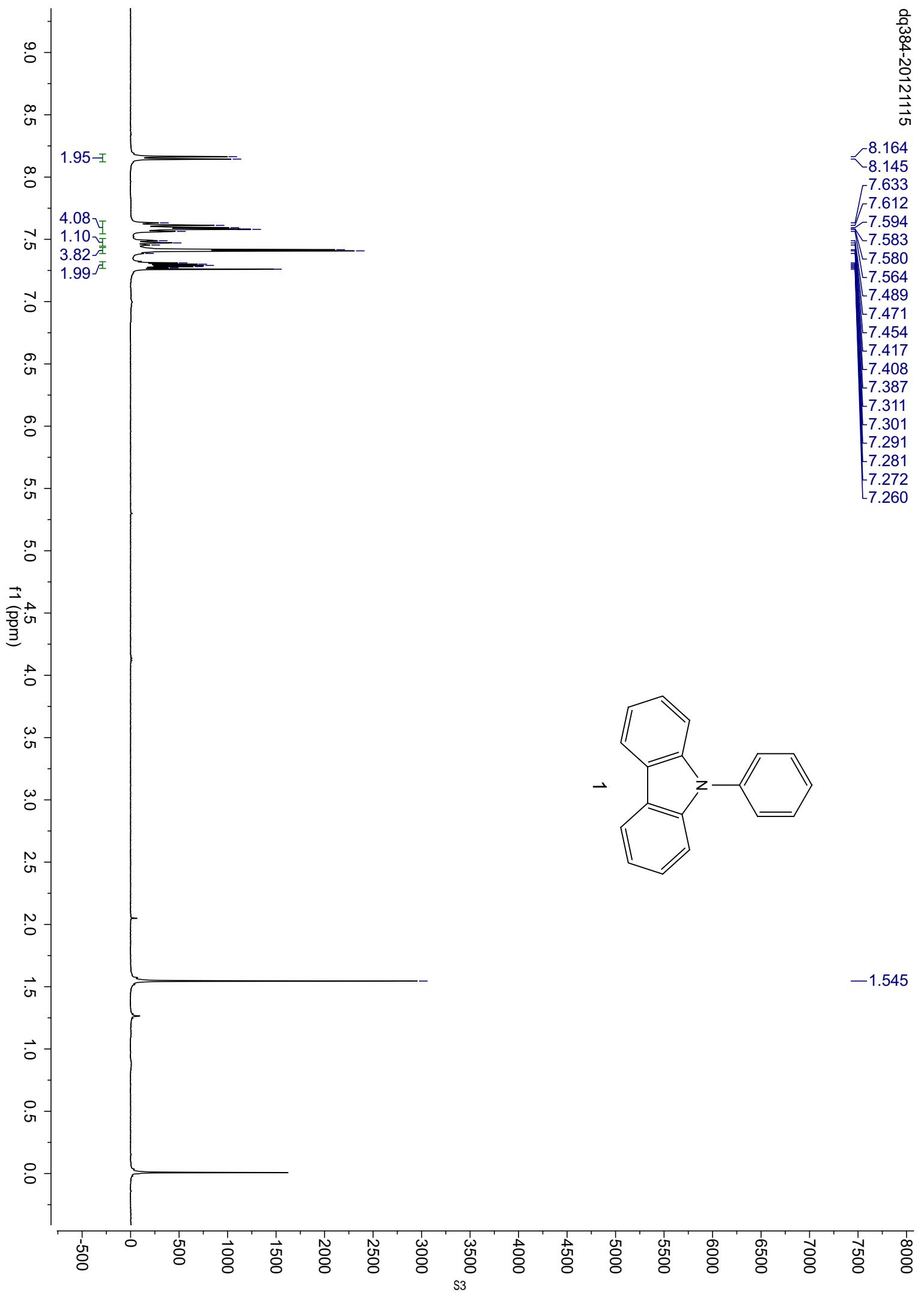
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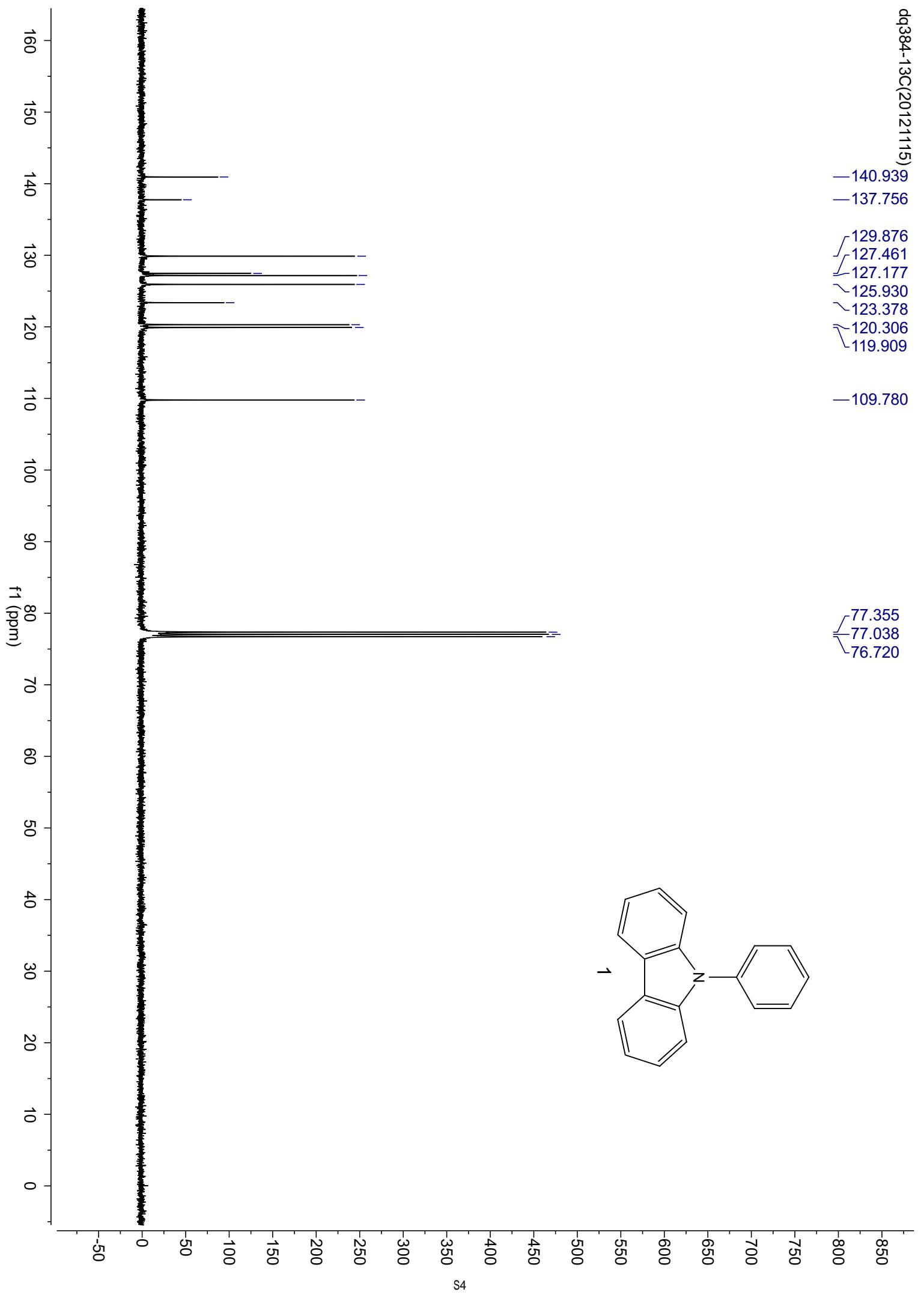


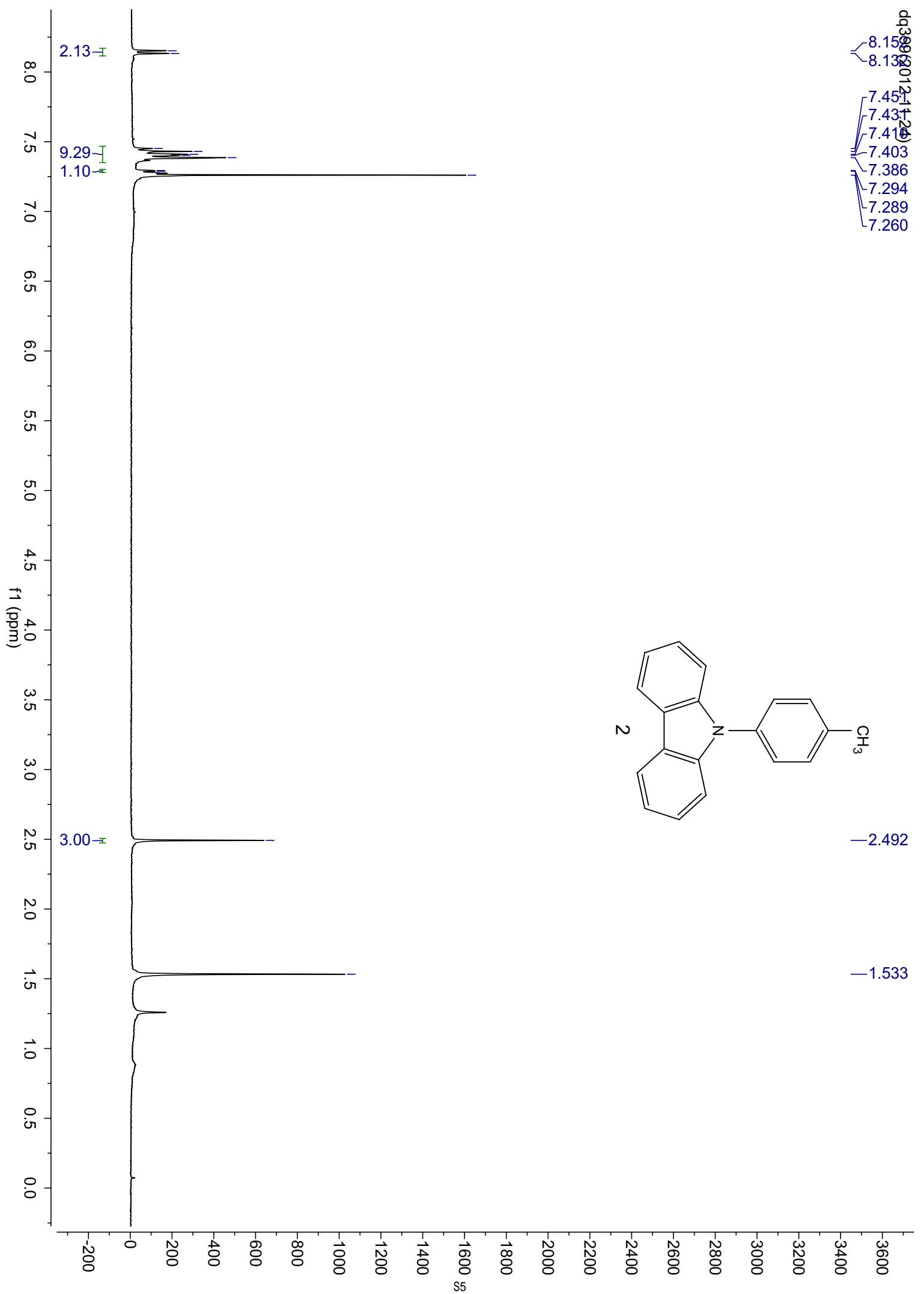
SFig. 1 The effects of Compound 6 on the morphology of mice hippocampal cell line

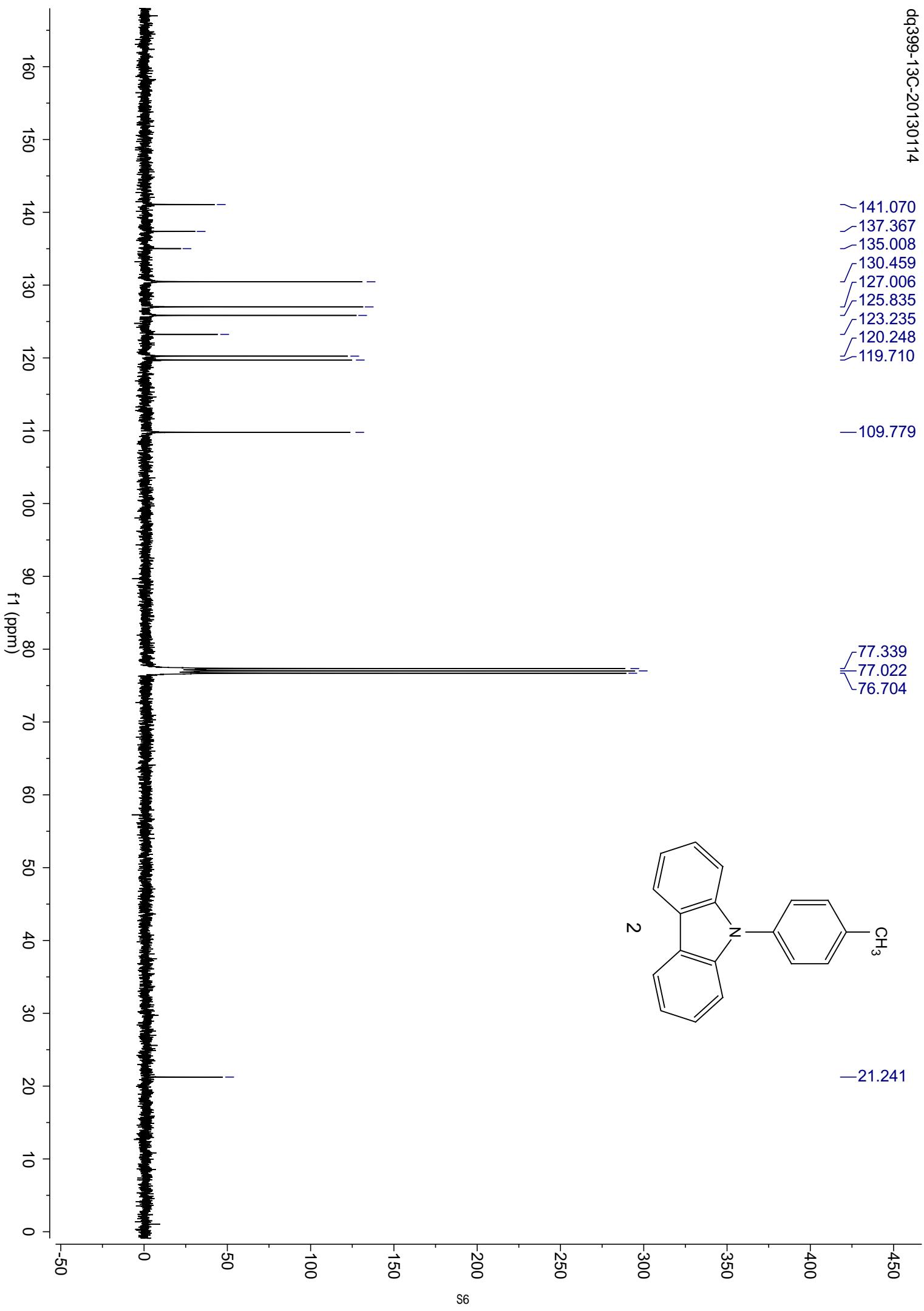
HT22 cells with or without glutamate (2 mM). Cells were pretreated with compound **6** at different concentrations for 30 min and then exposed to glutamate (2 mM) for 24 h. After that, the cell morphological images were taken by an Olympus camera under an inverse phase-contrast microscopy (Olympus, Japan). A) Vehicle; B) Glutamate; C) Compound **6** (30 μ M); D) Compound **6** (3 μ M) + glutamate; E) Compound **6** 10 μ M+ glutamate and F) Compound **6** (30 μ M) + glutamate group, respectively (200X). Data showed that glutamate significantly induced cell shrinkage and debris, which dramatically blocked by compound **6** at different concentrations.

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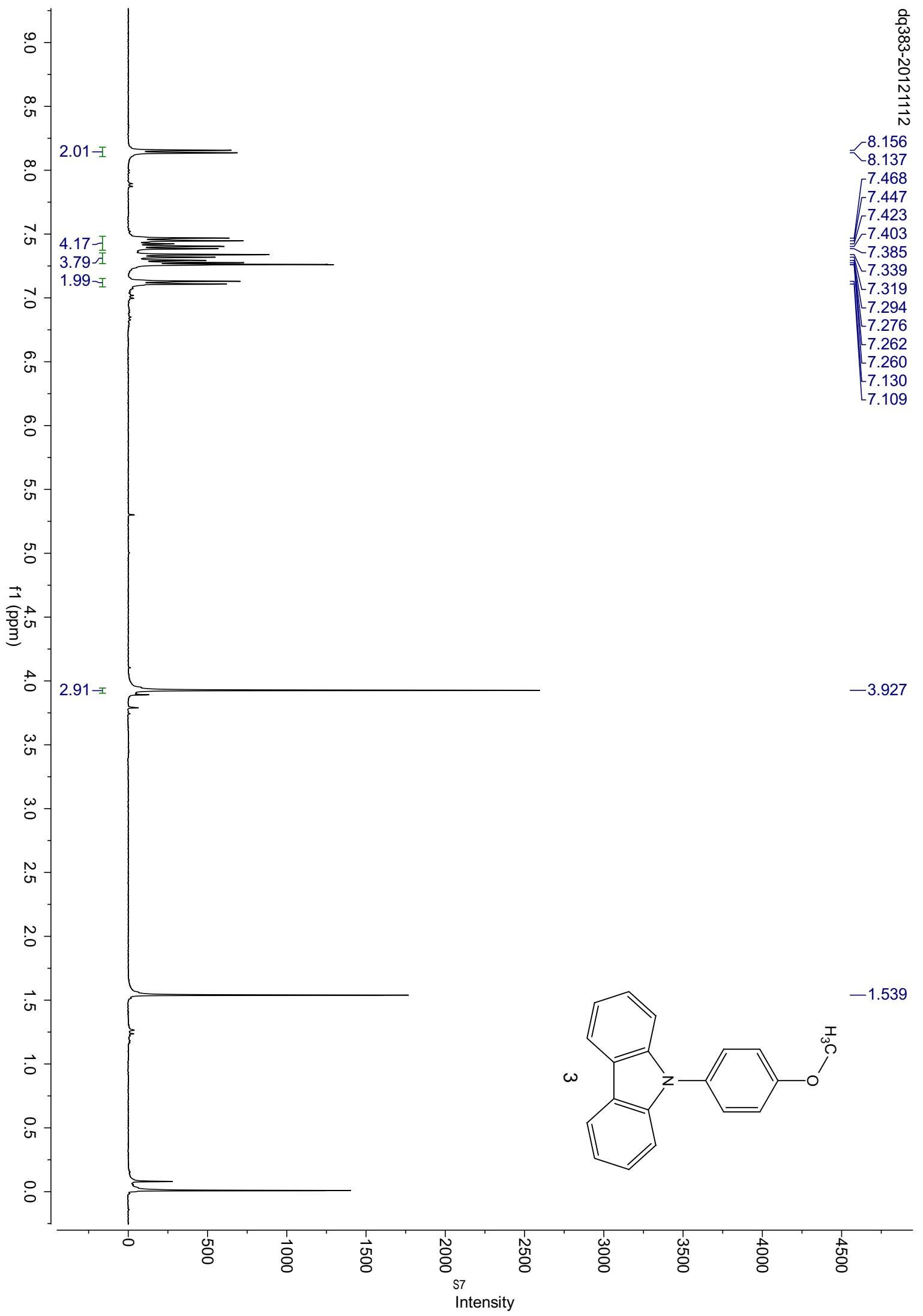




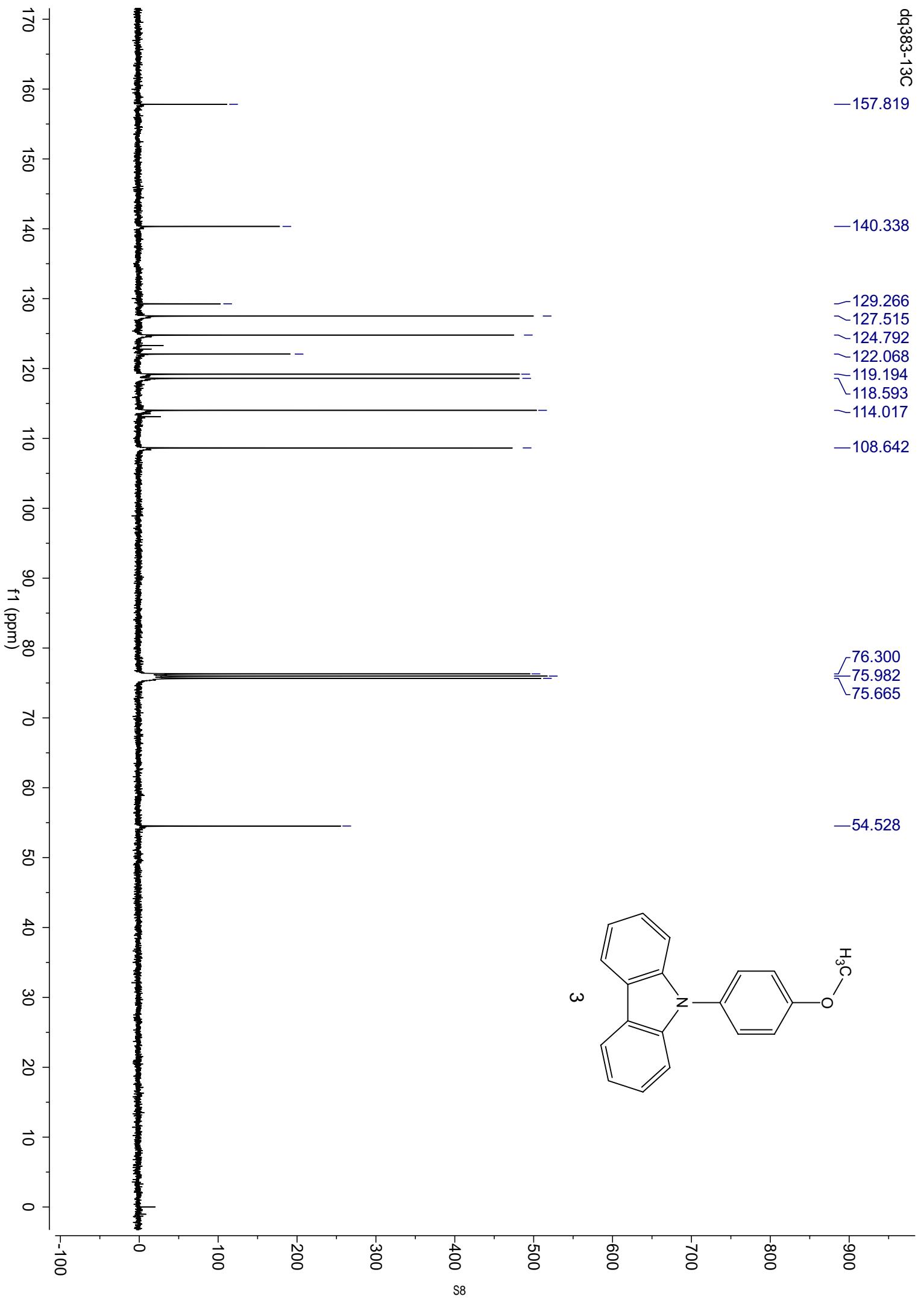




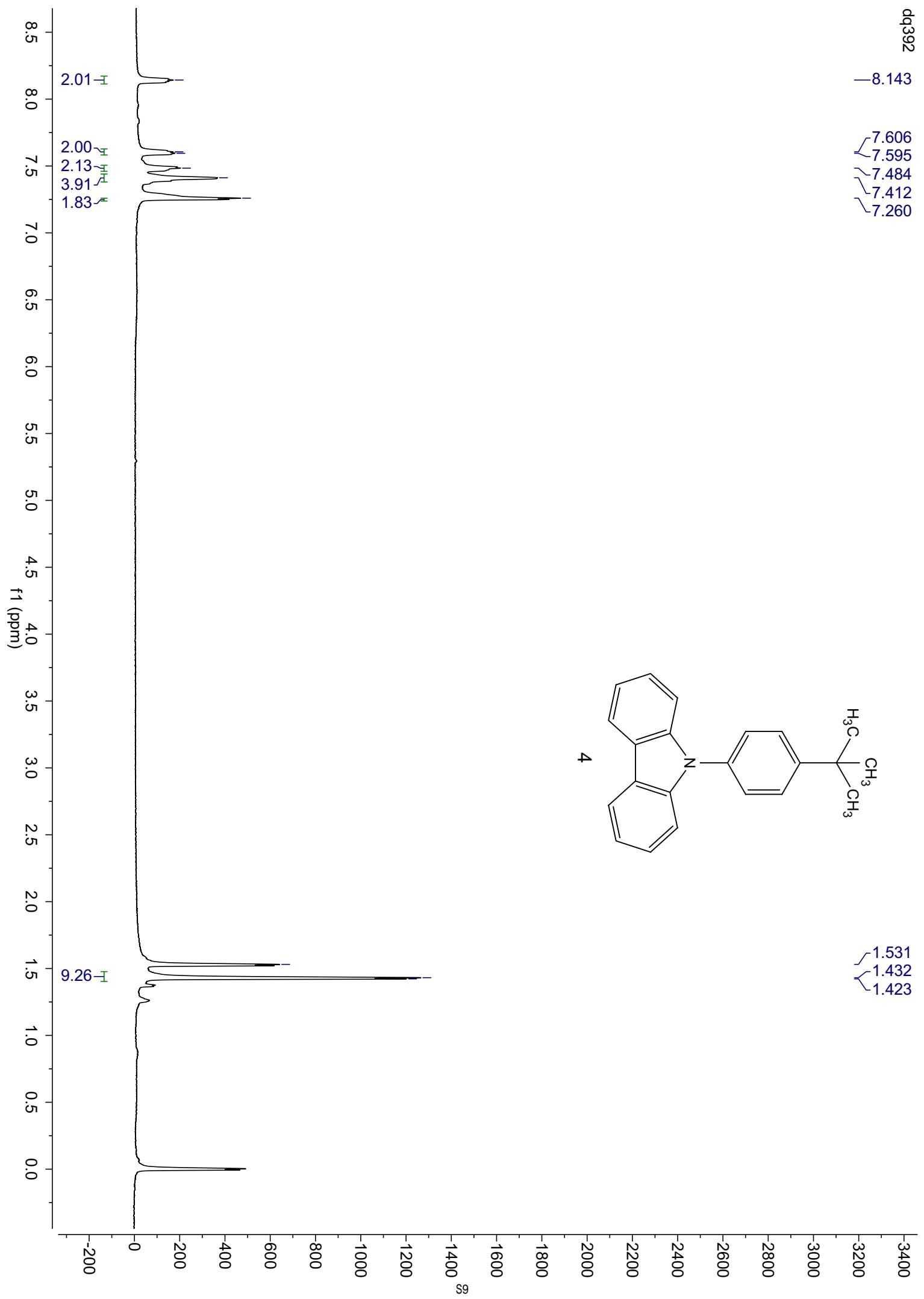
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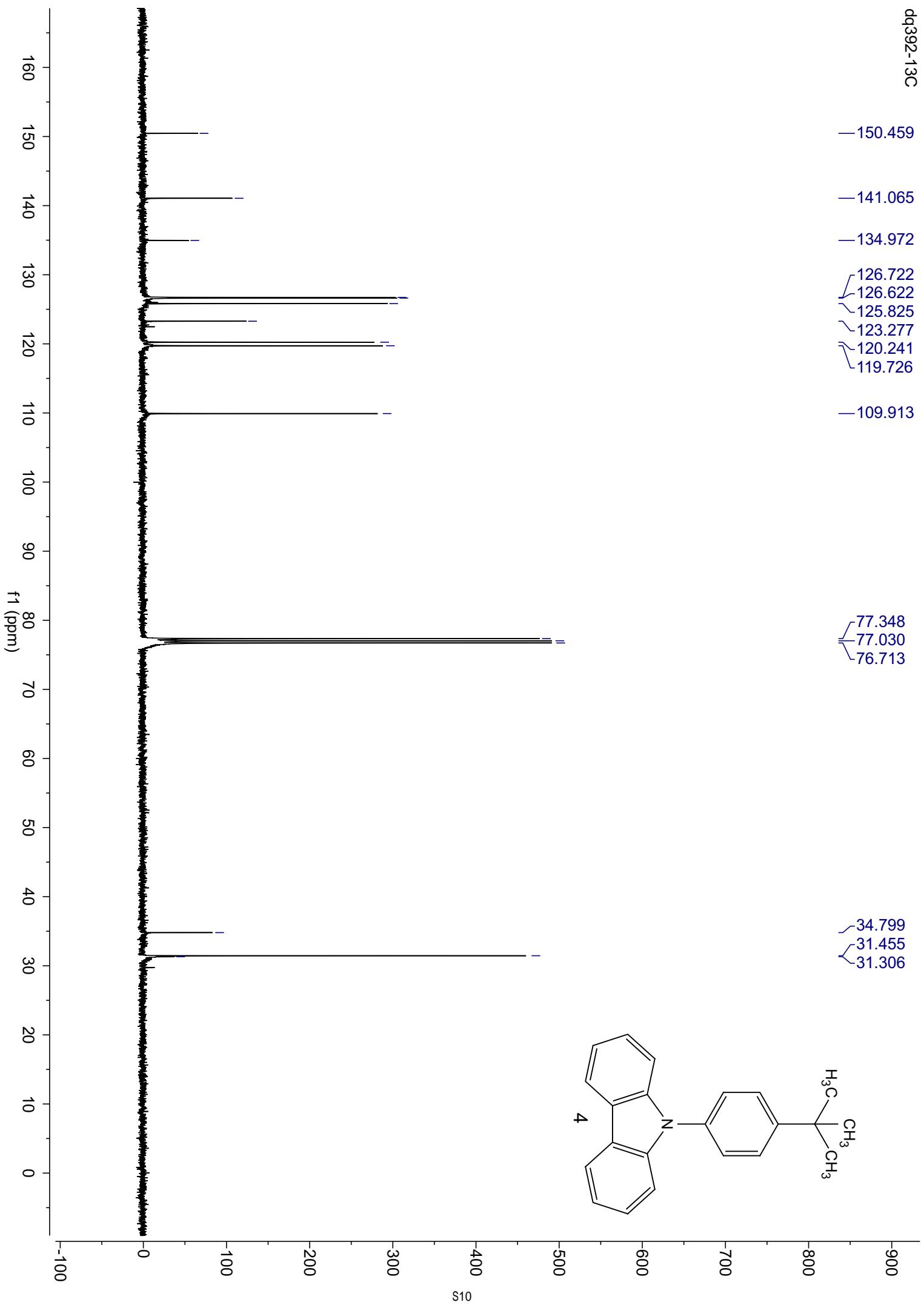
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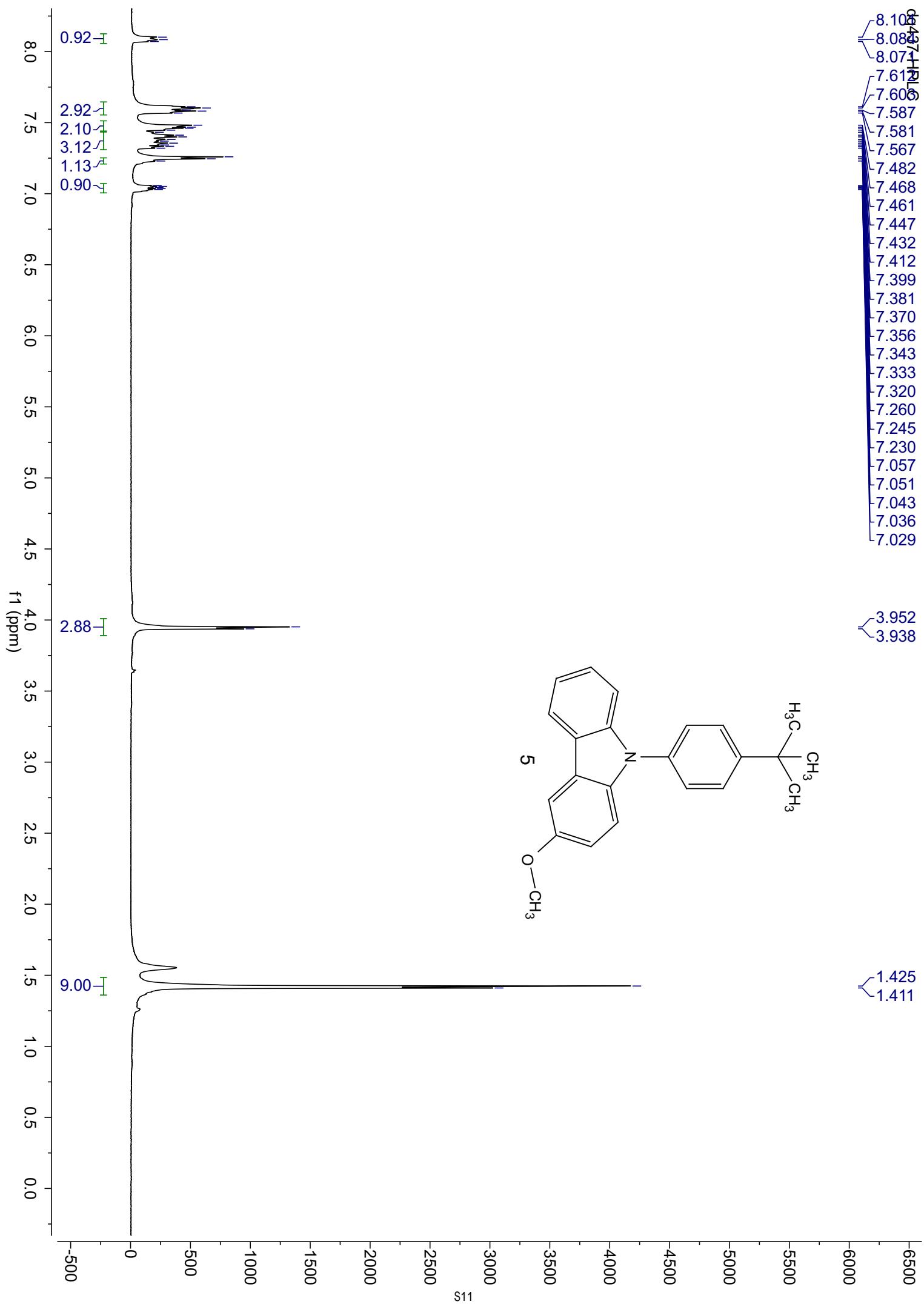


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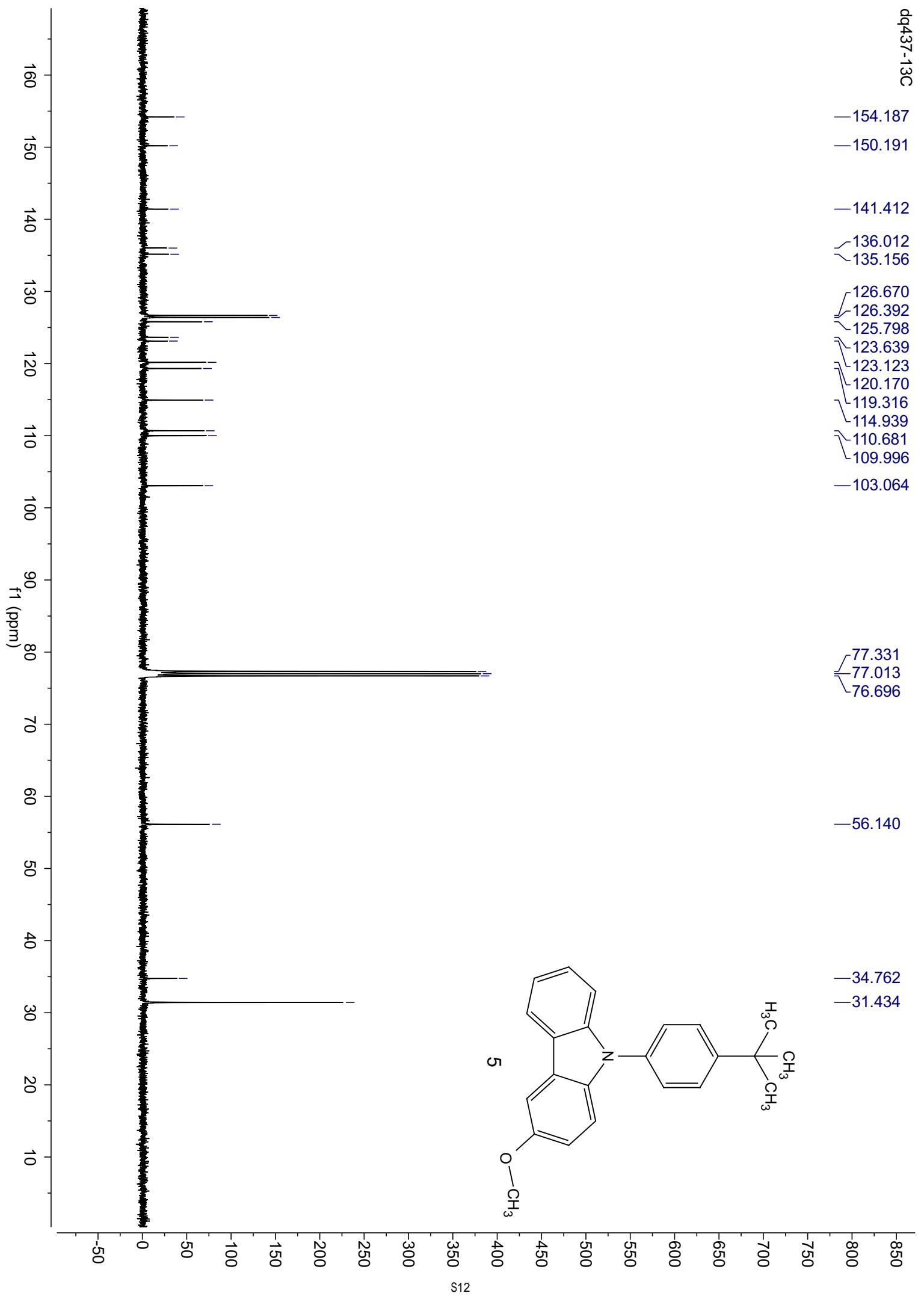


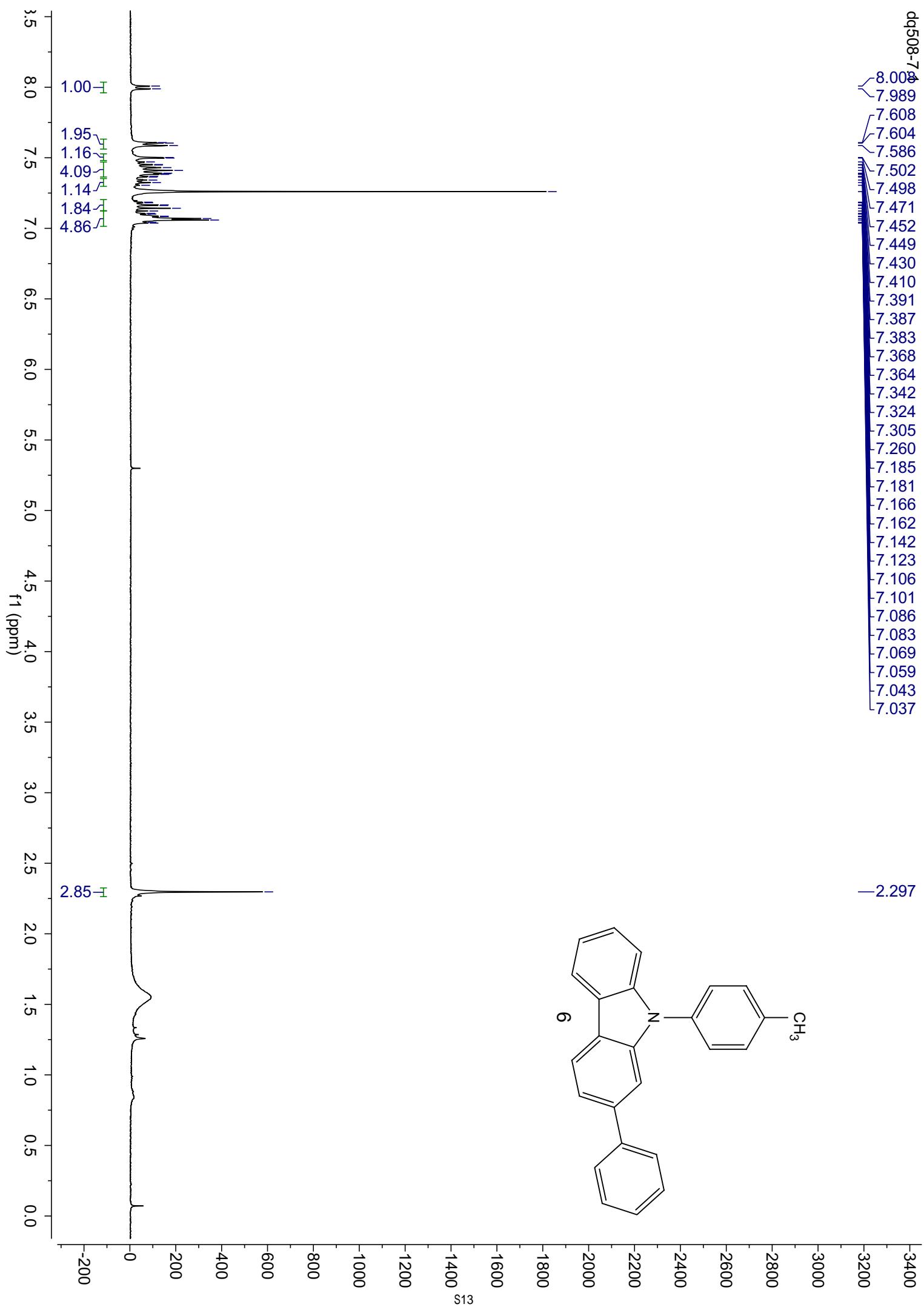
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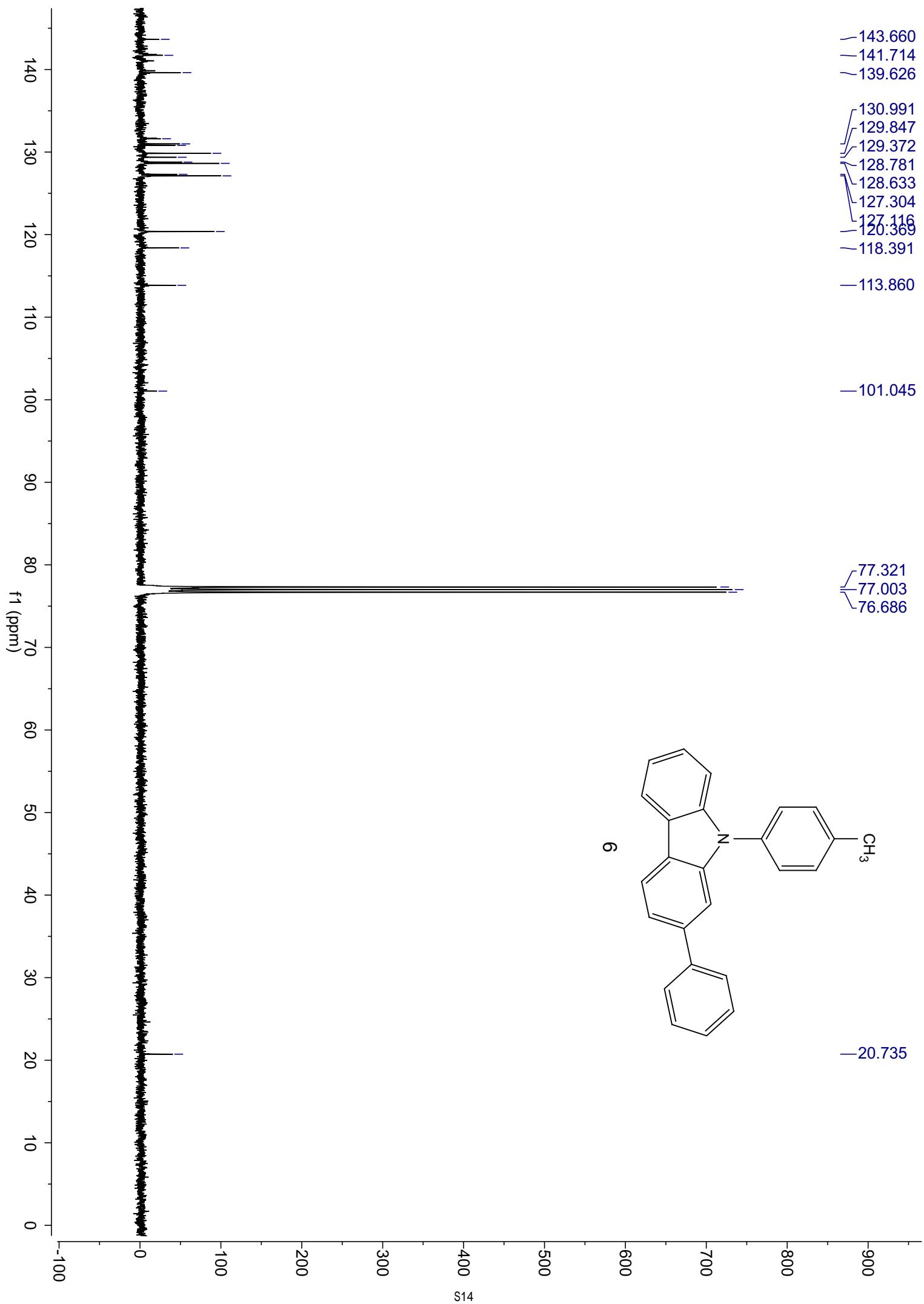


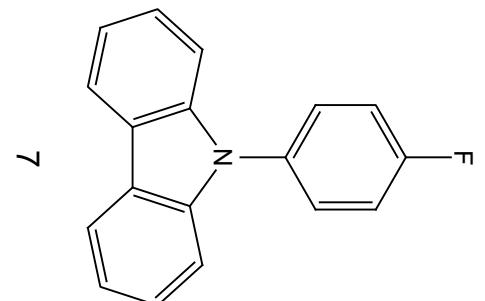
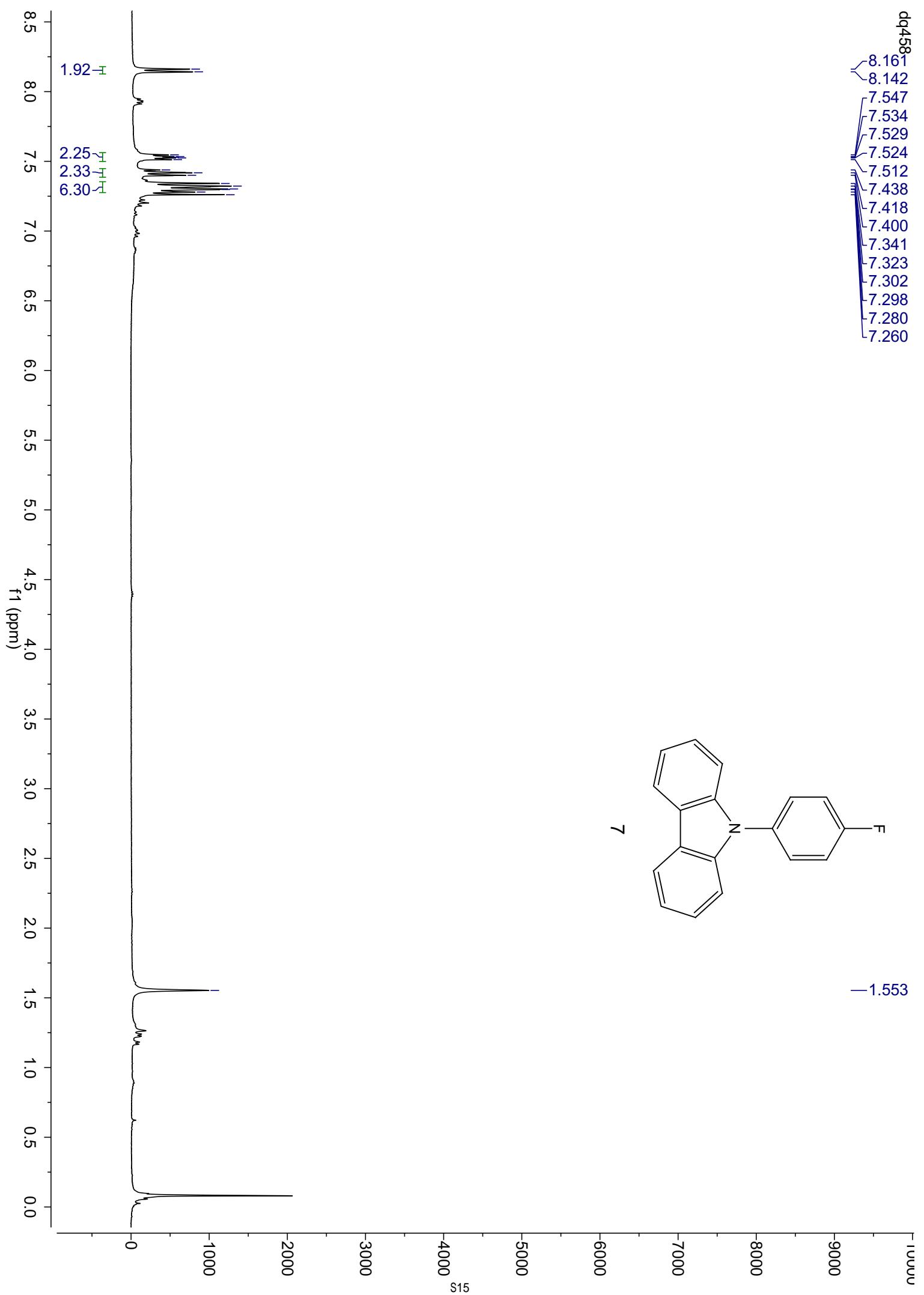


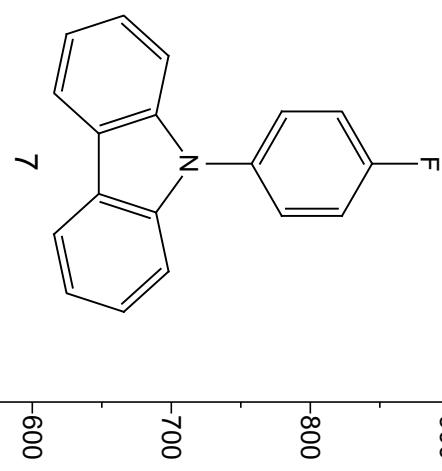
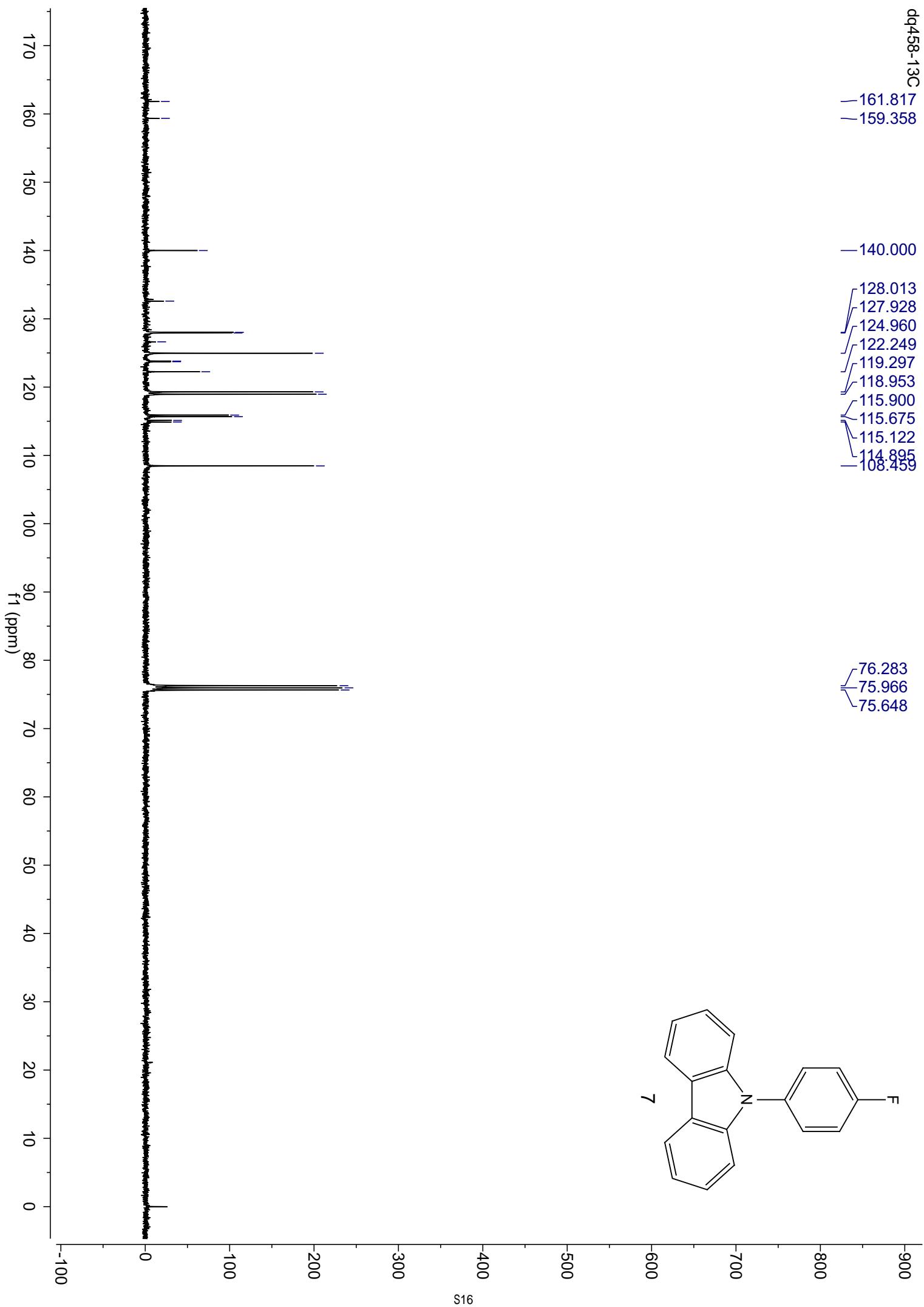
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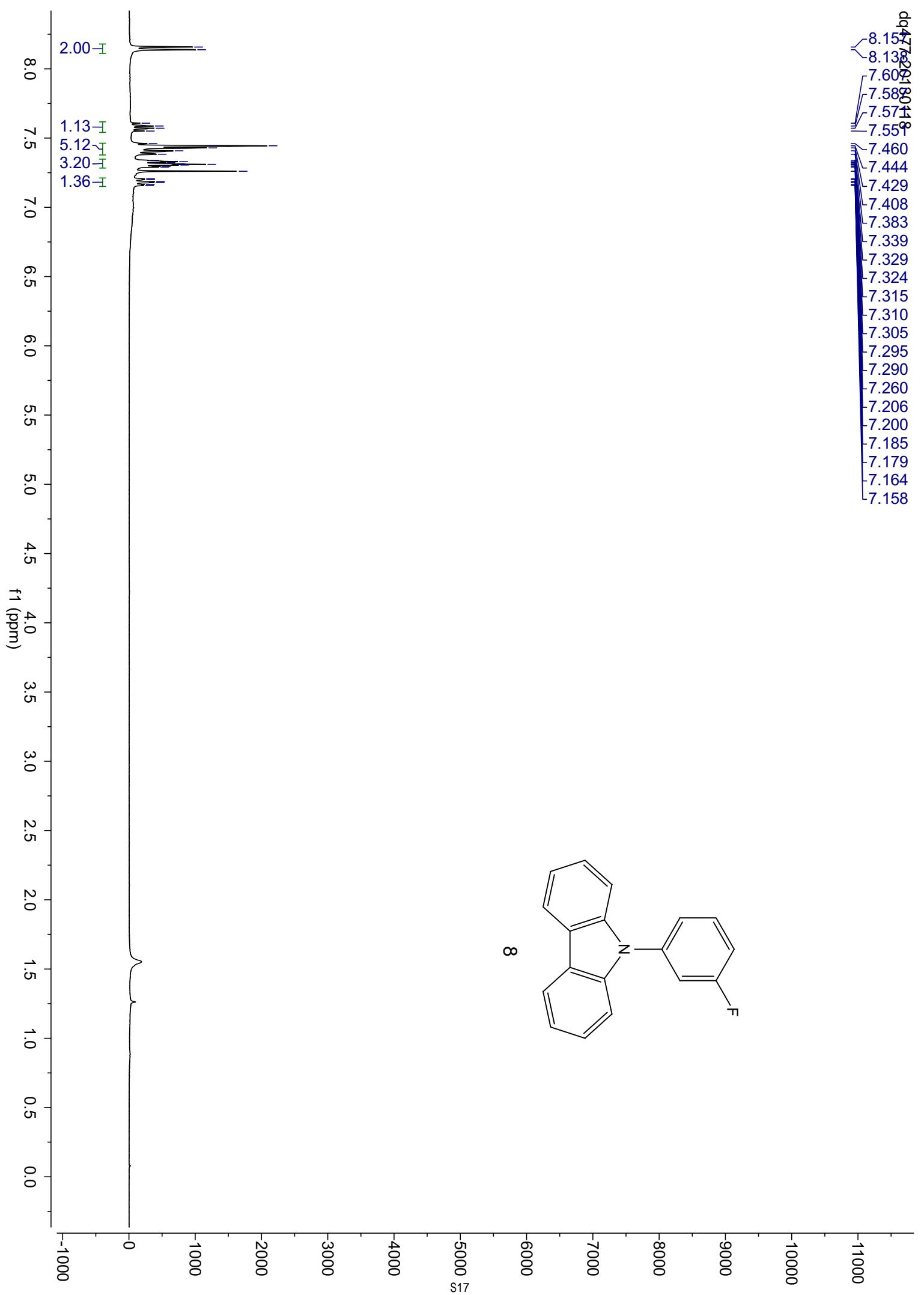




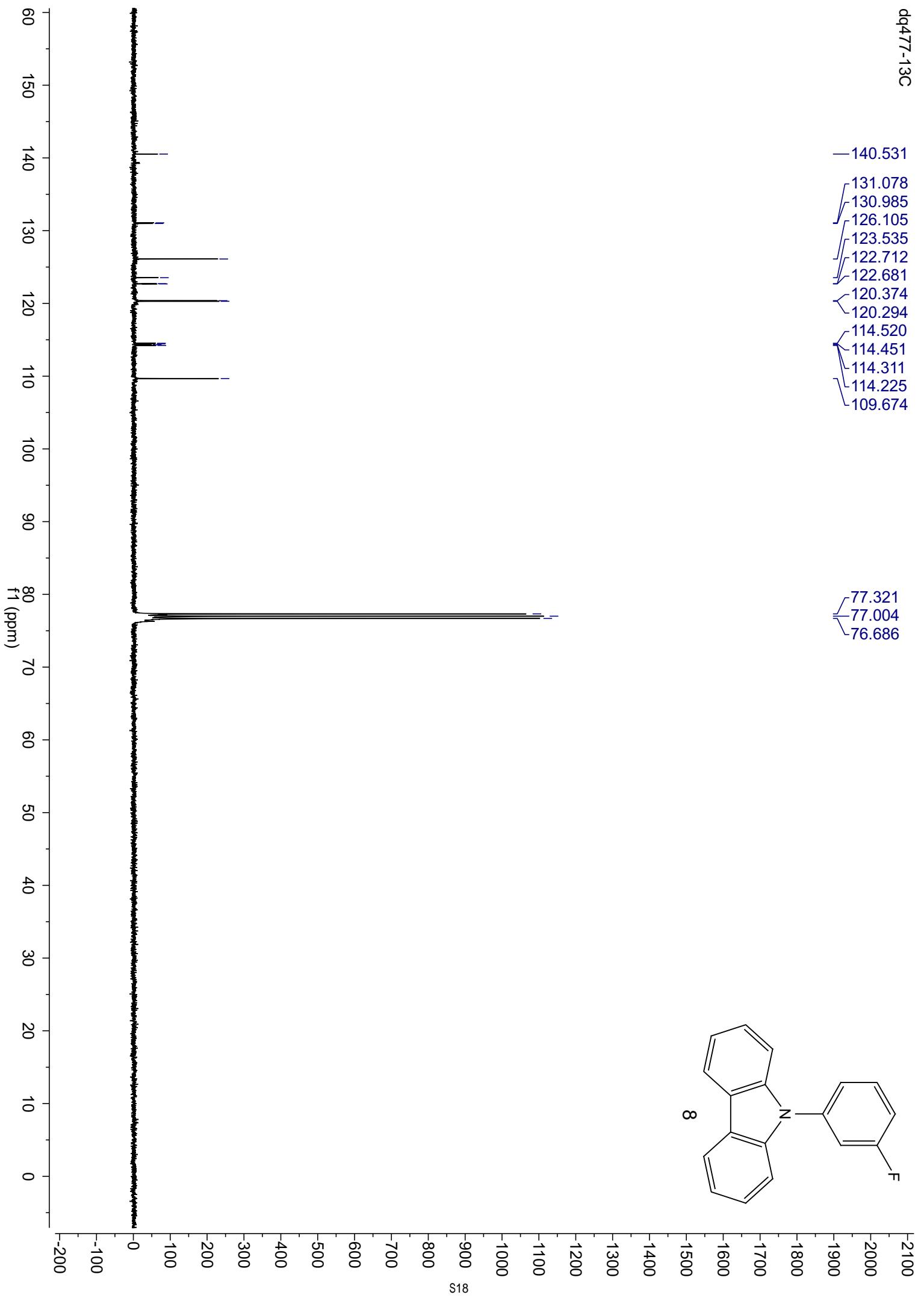


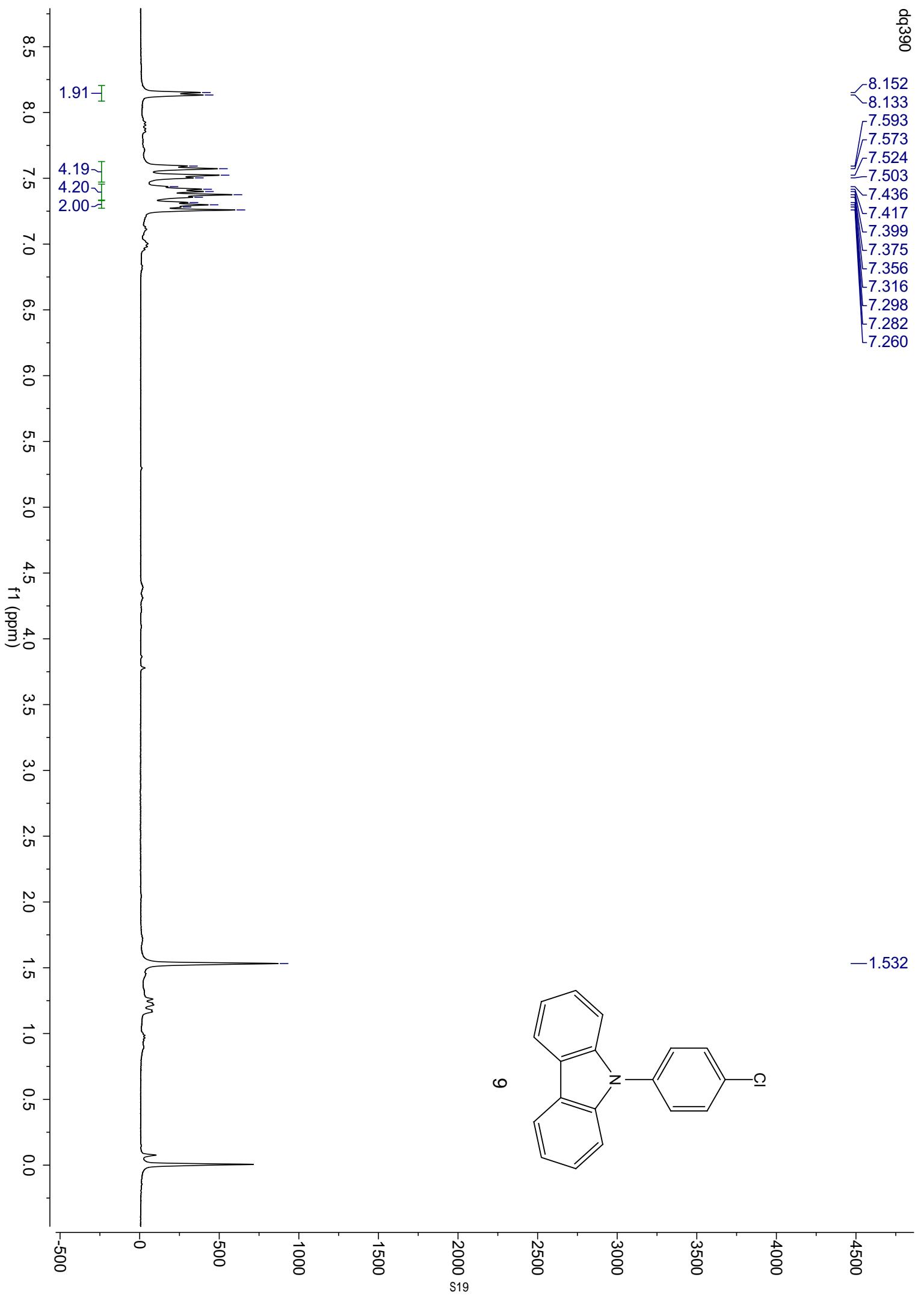


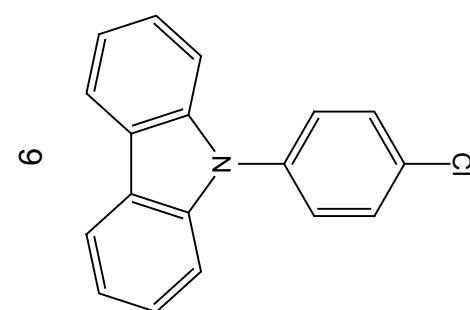
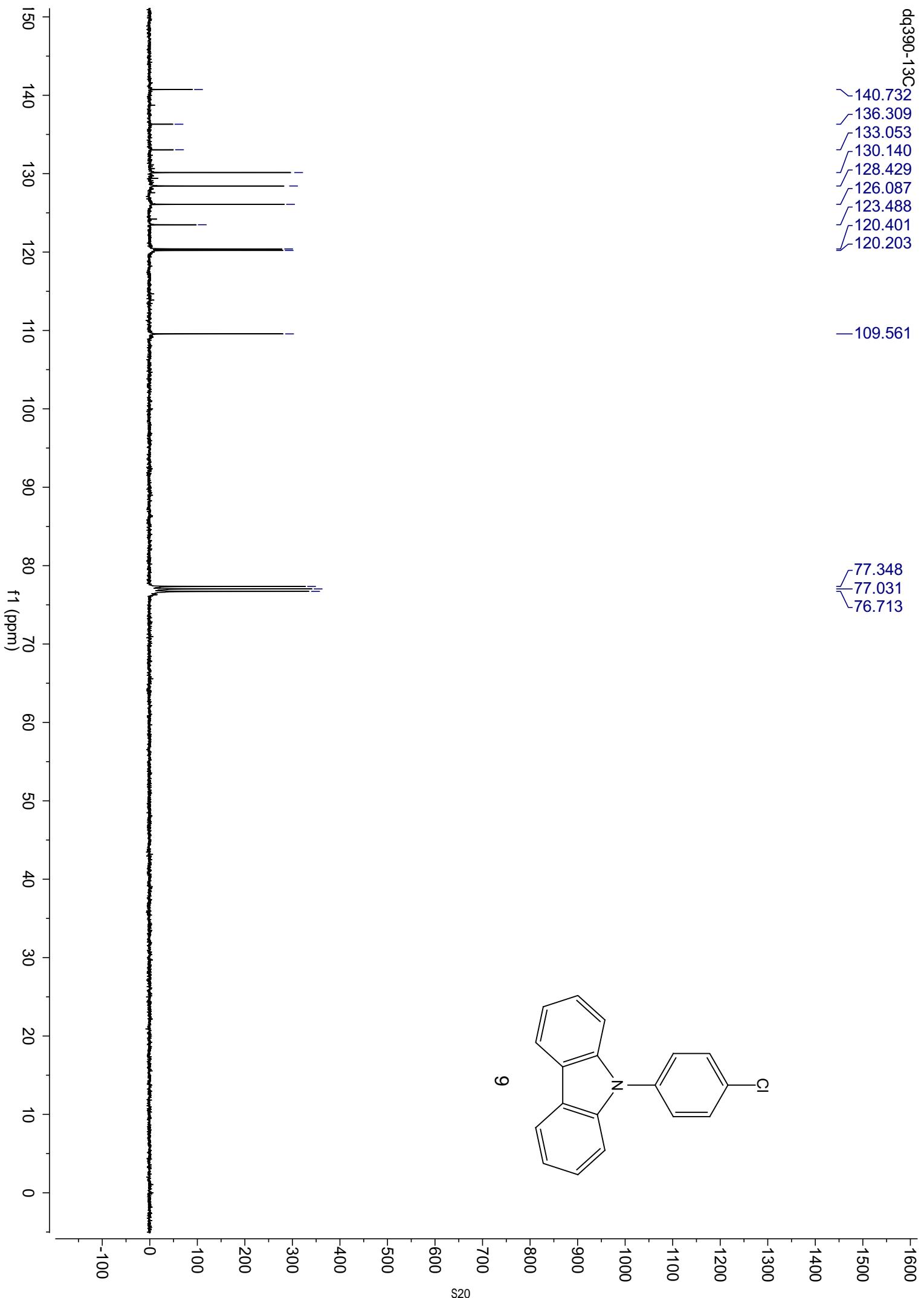


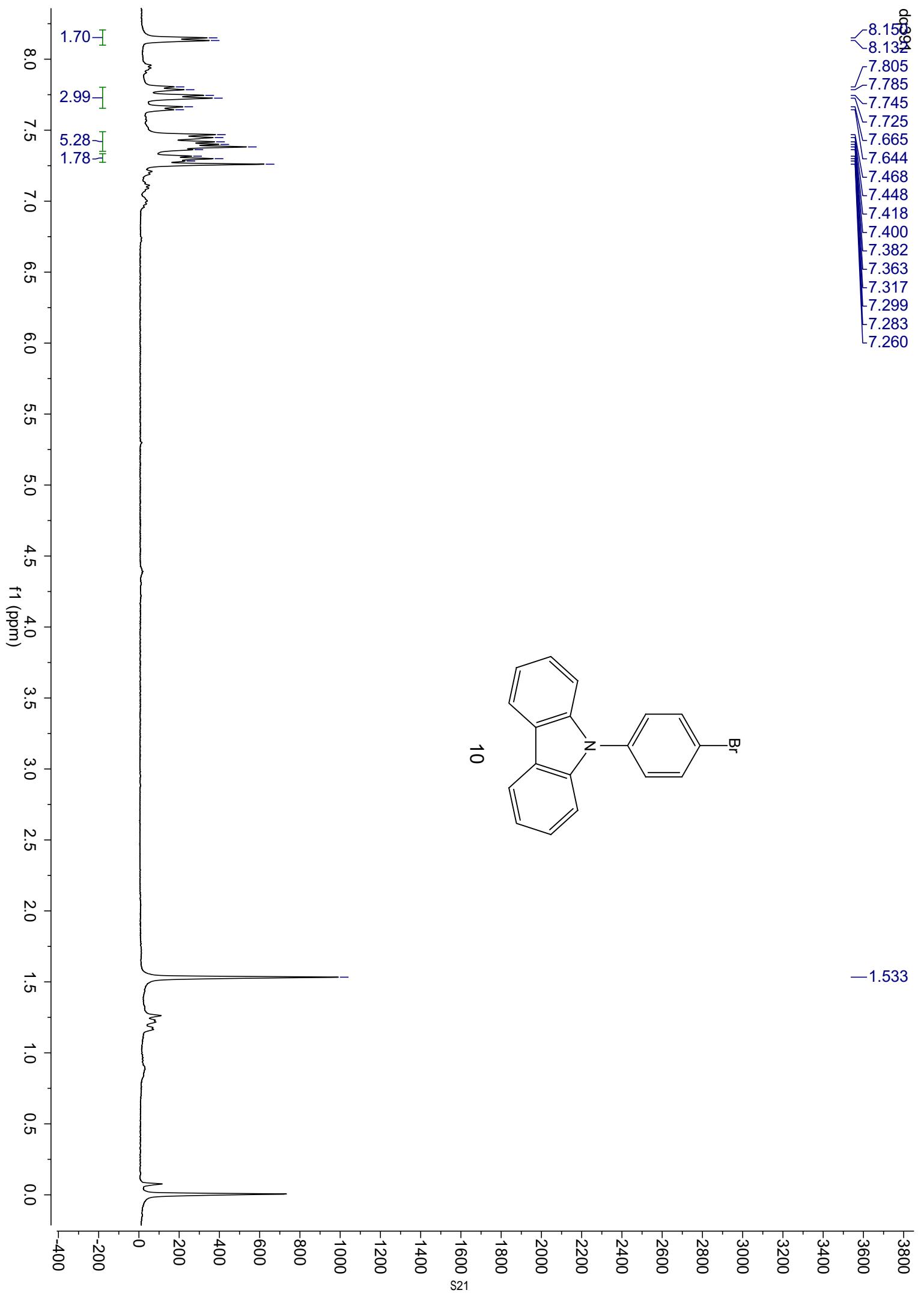


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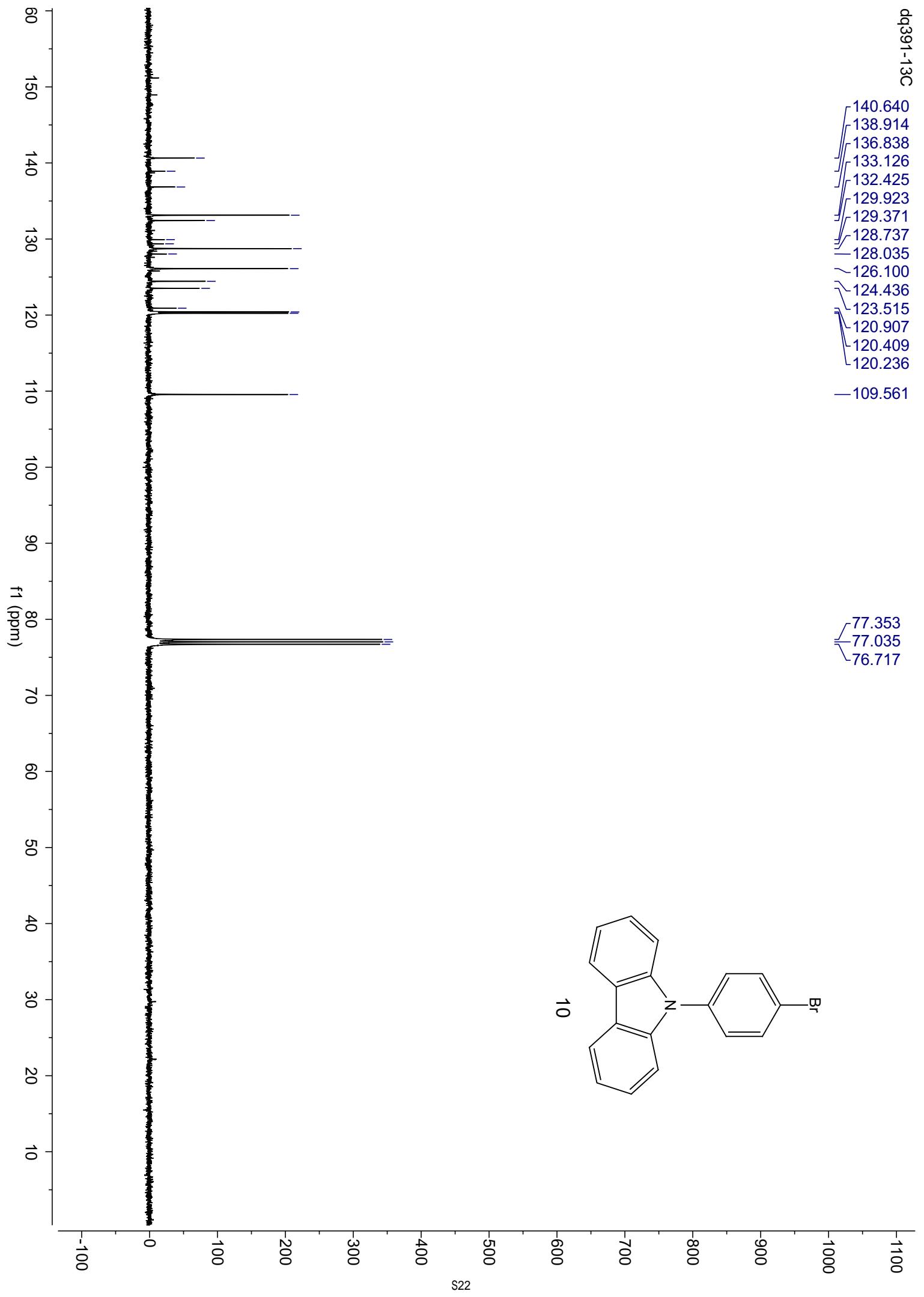


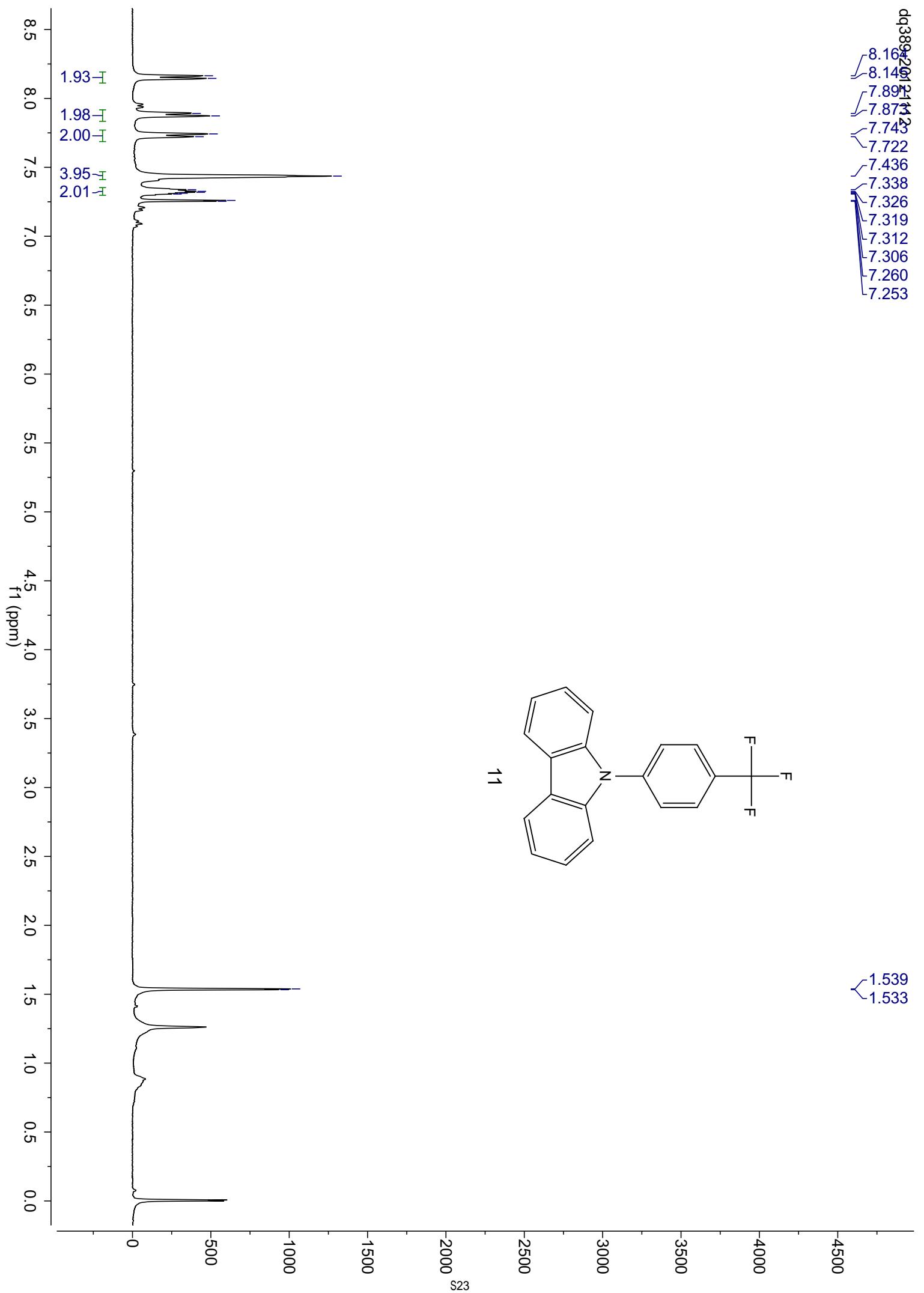


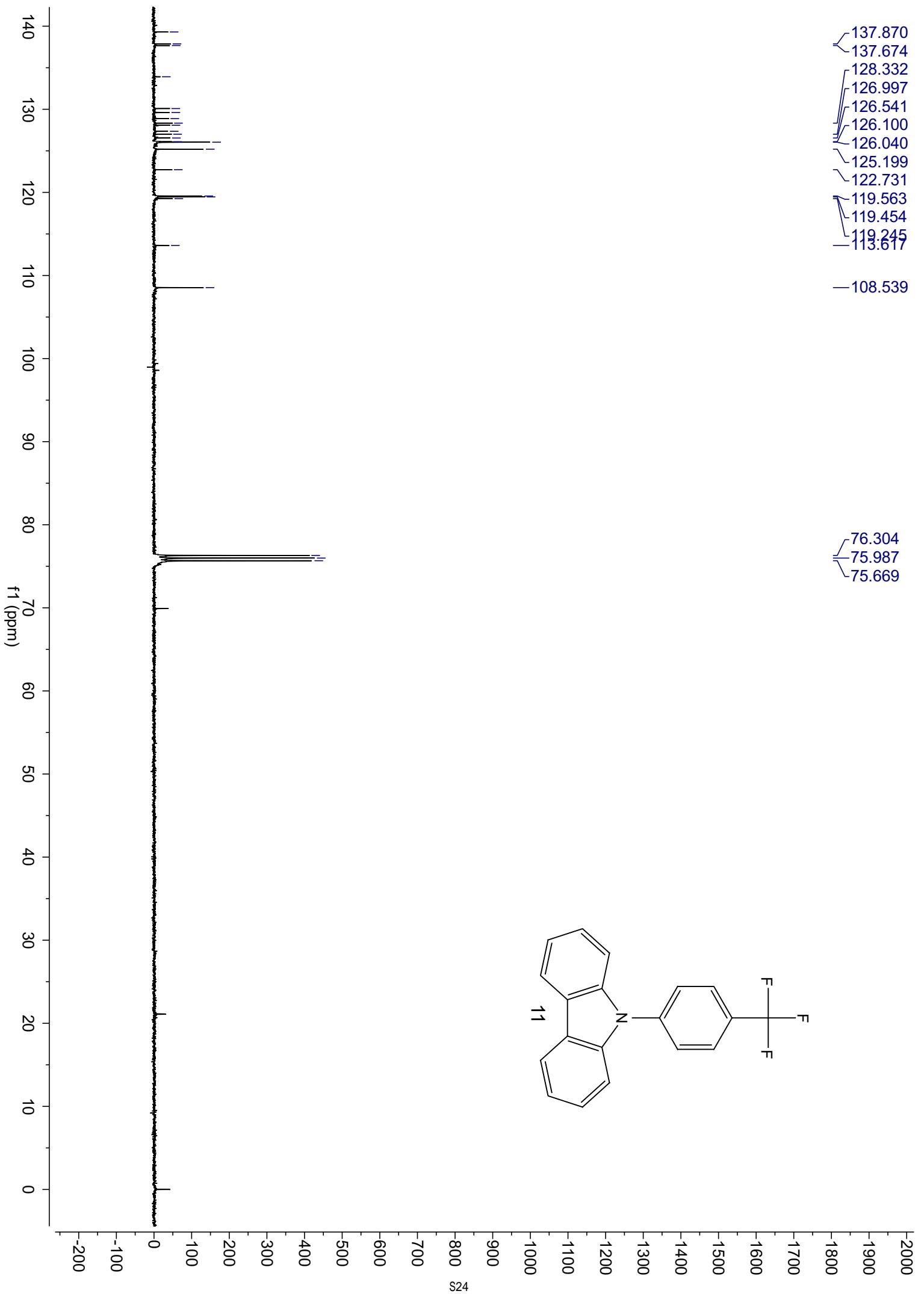


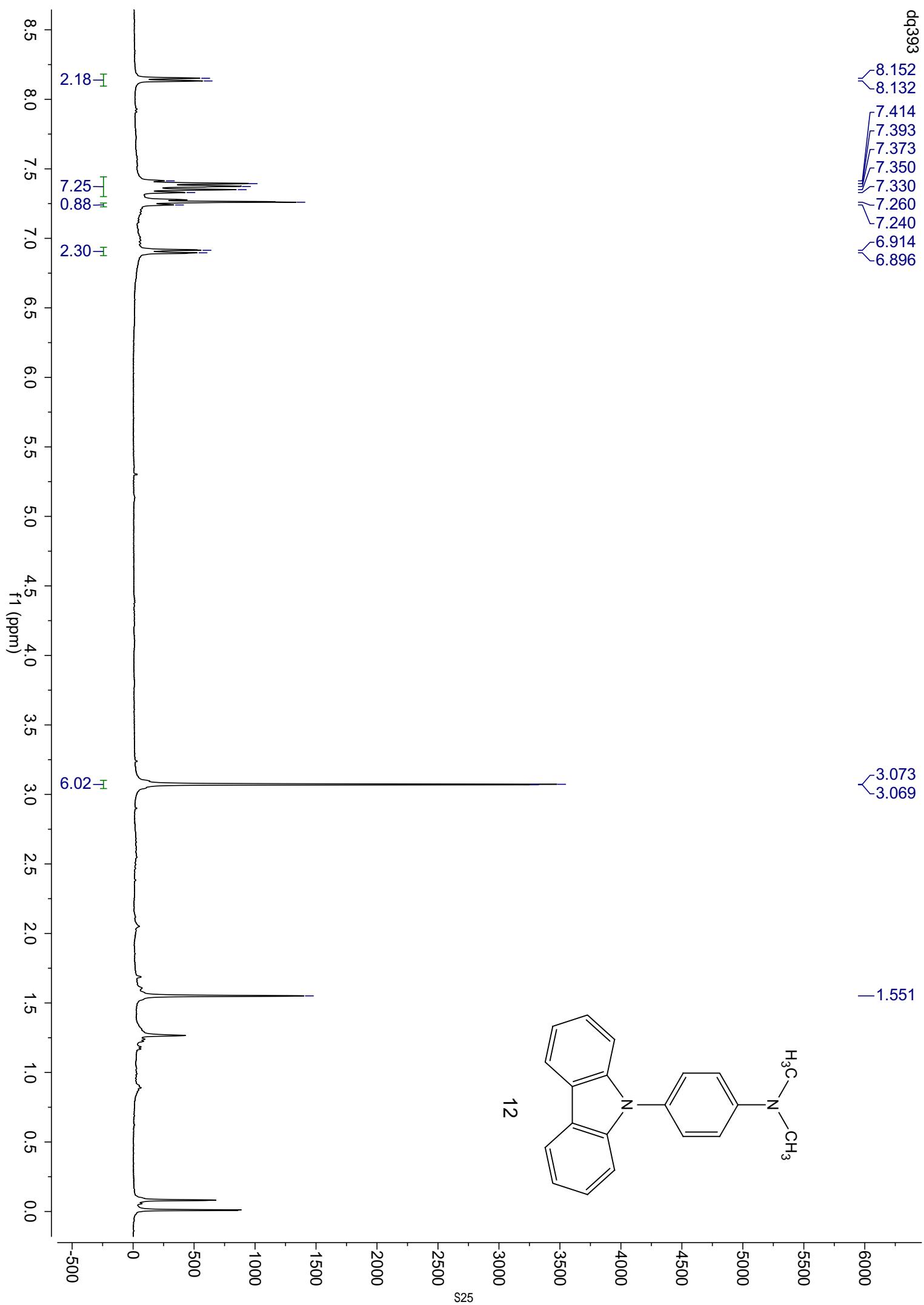


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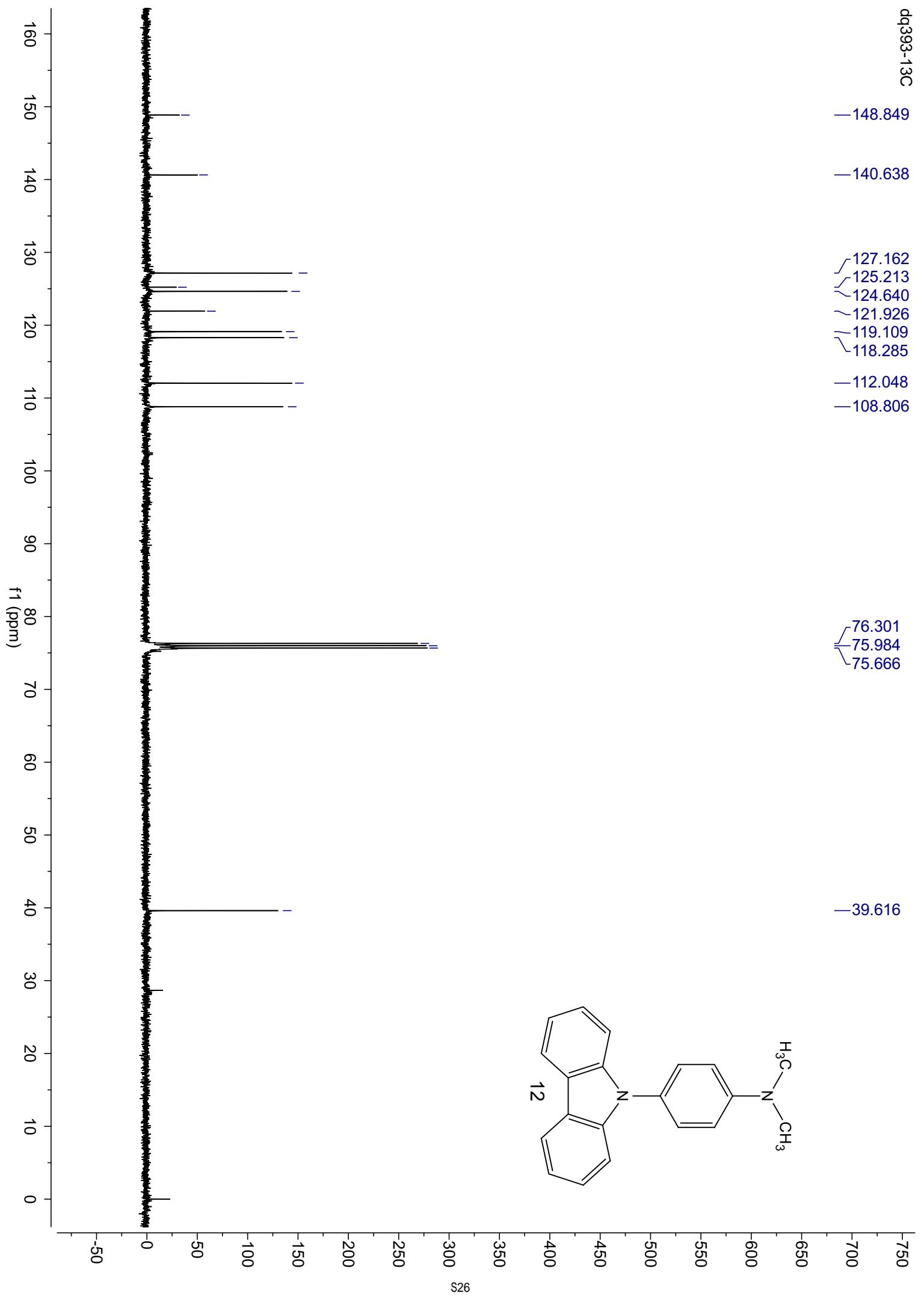


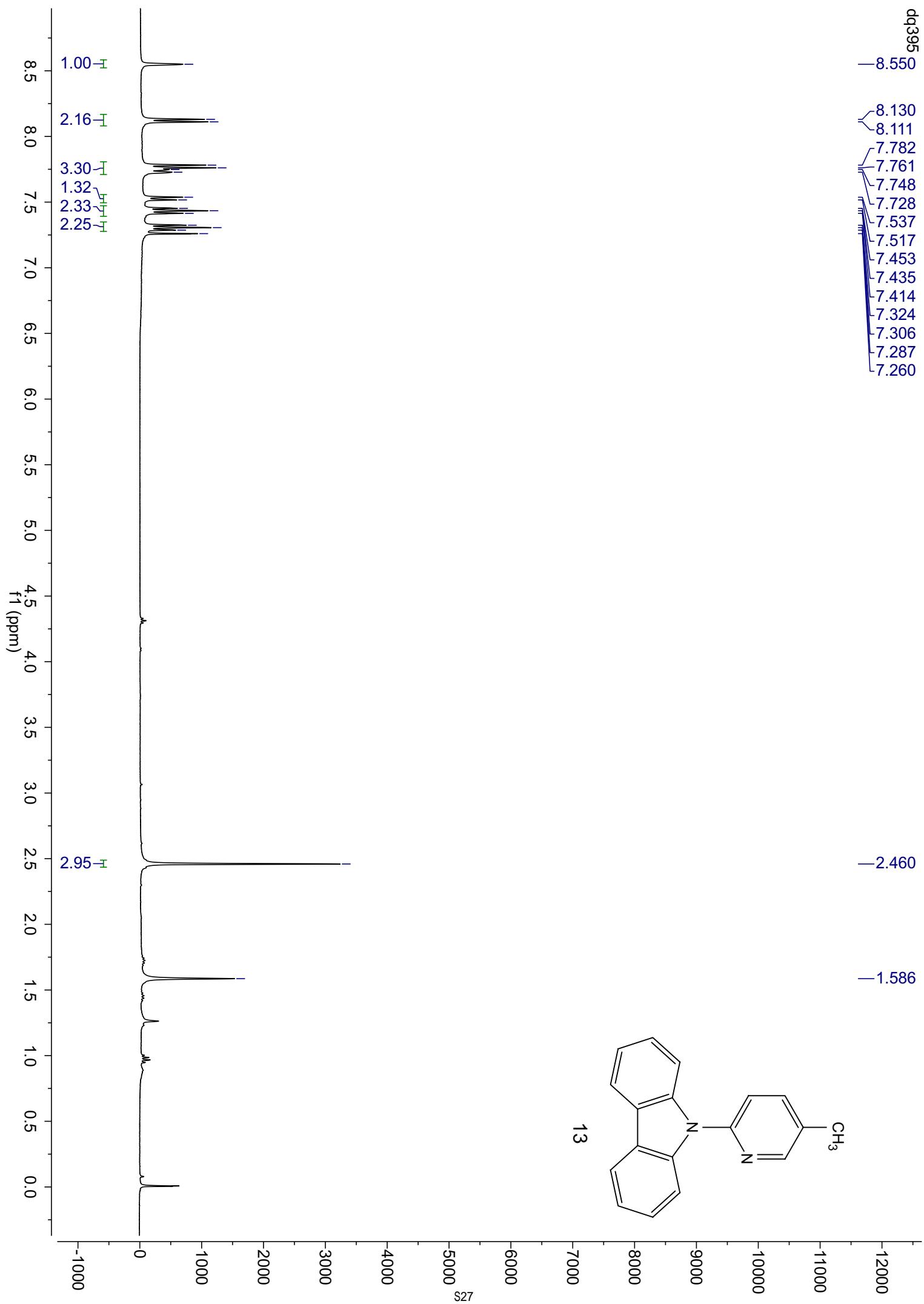






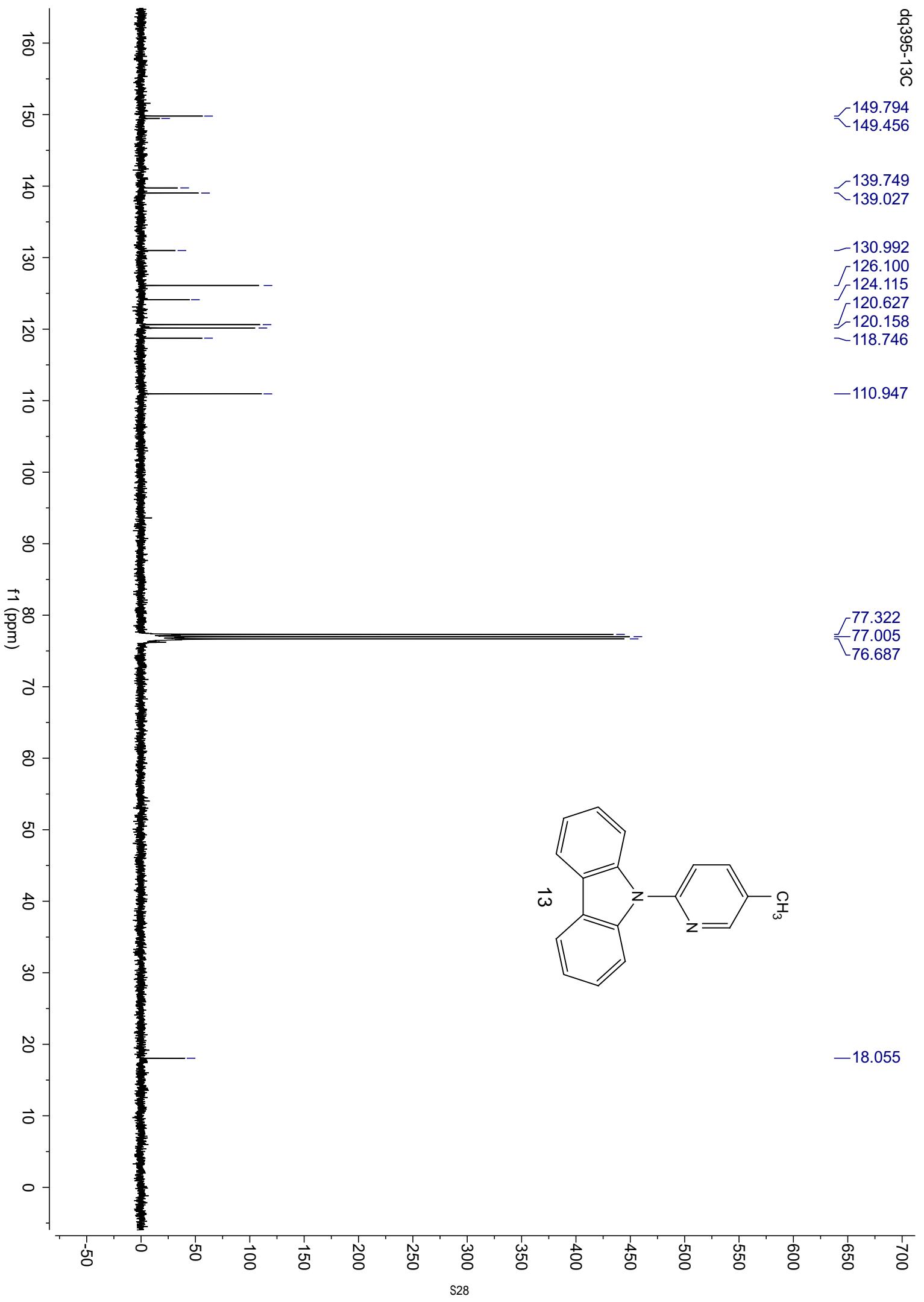
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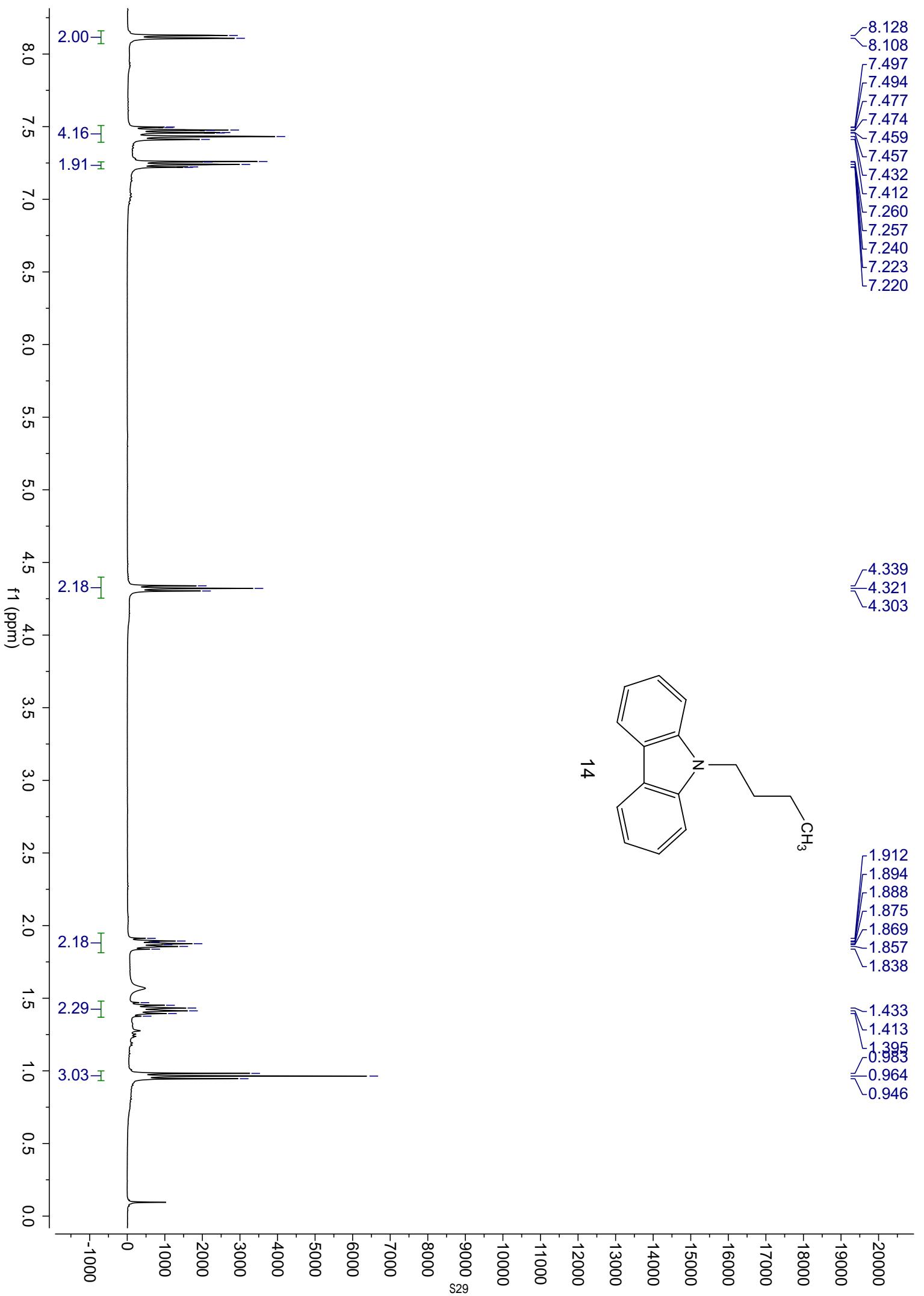


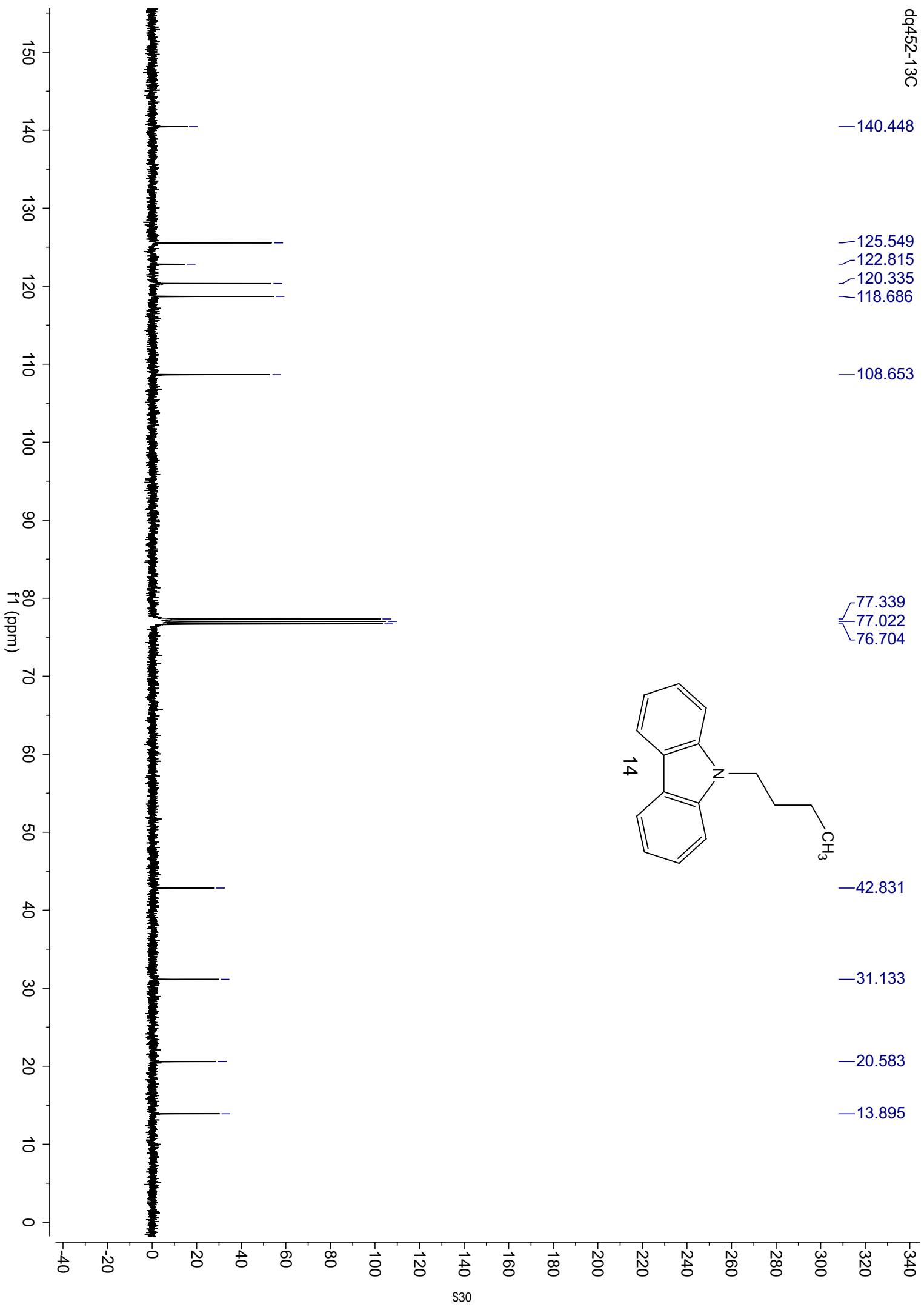


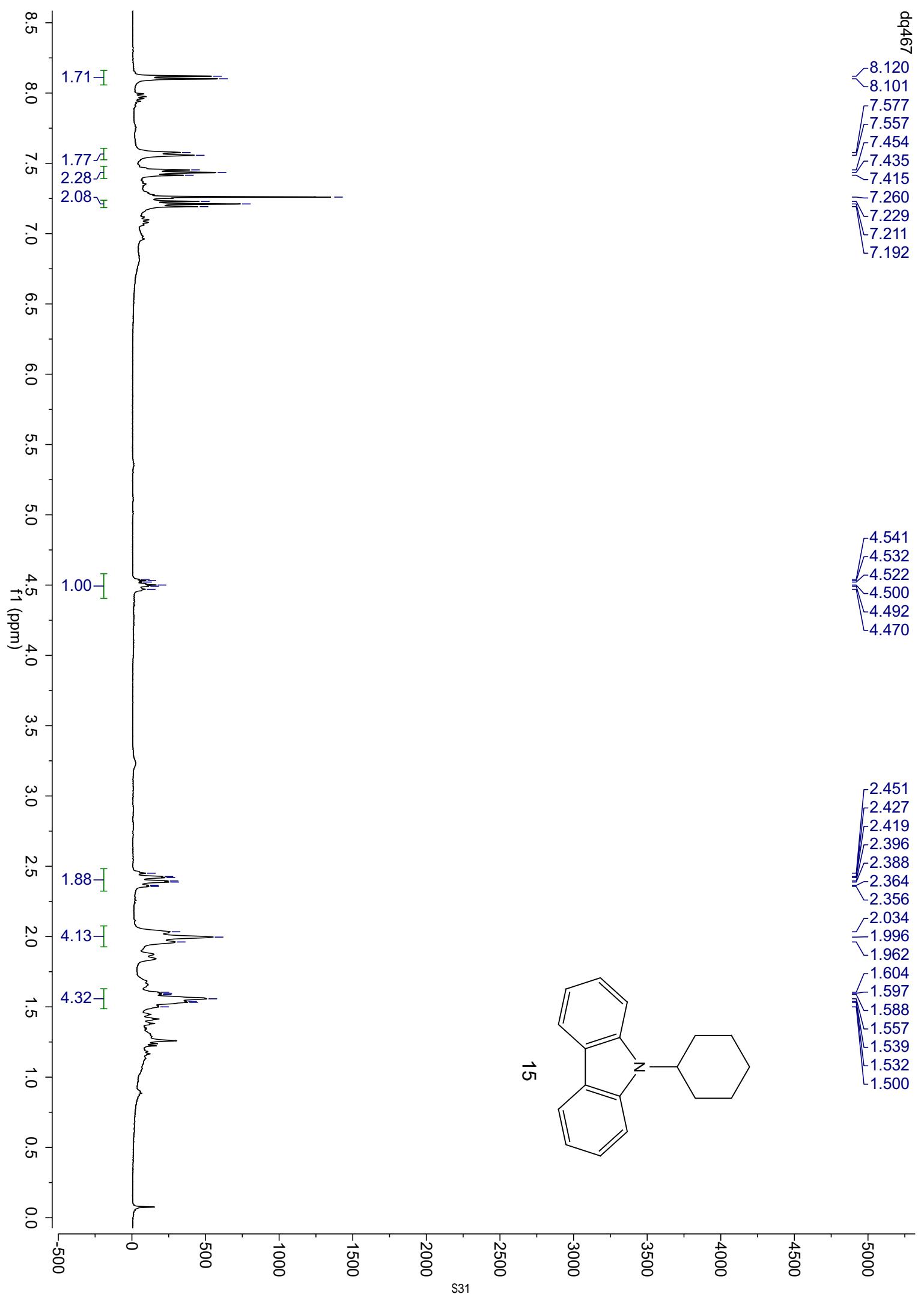
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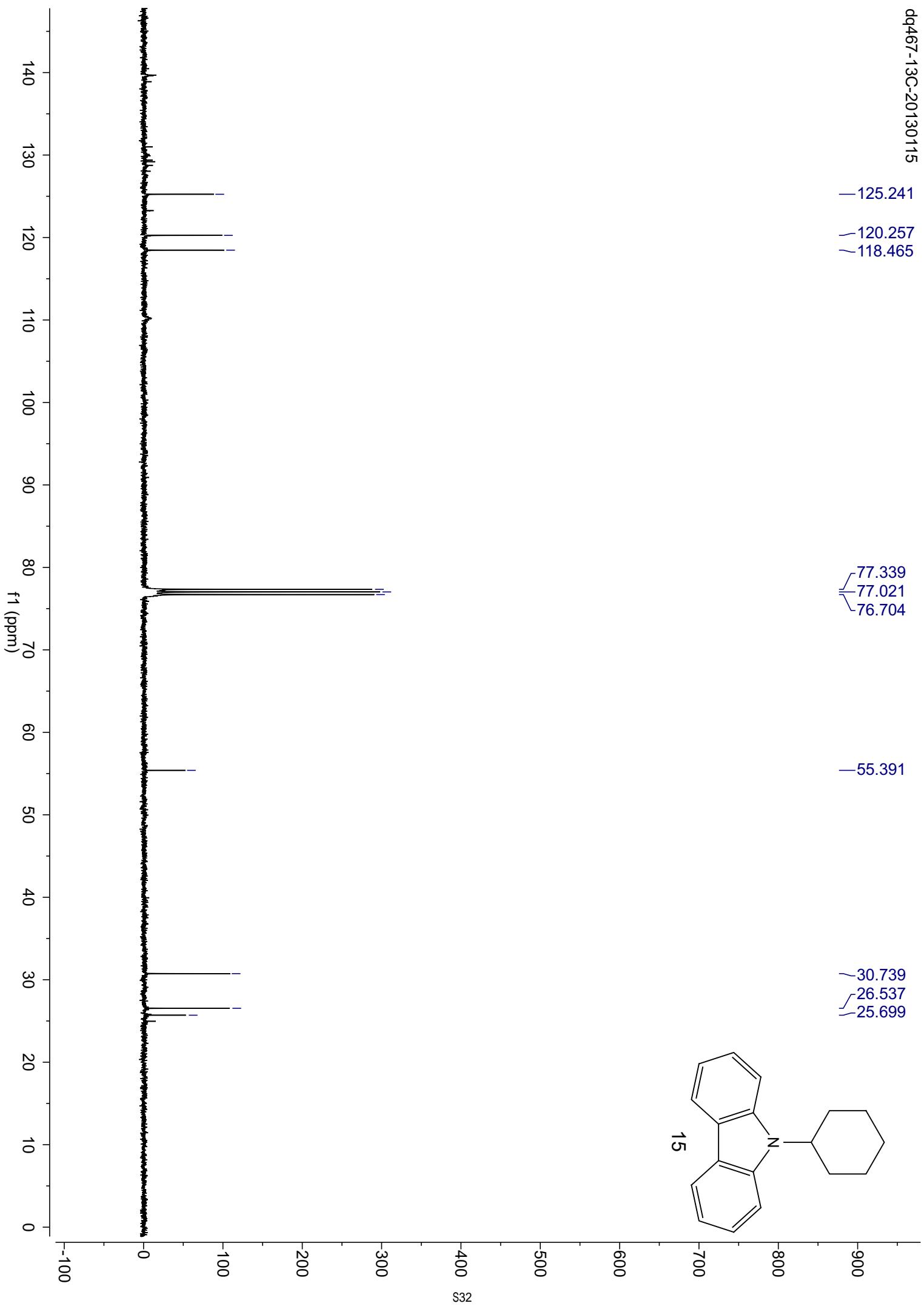
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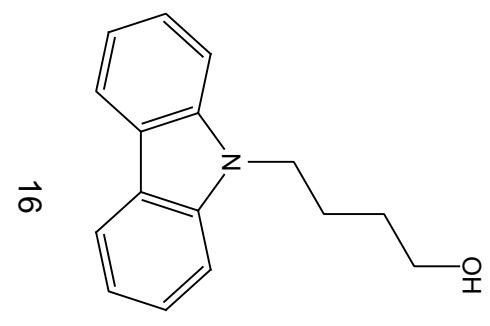
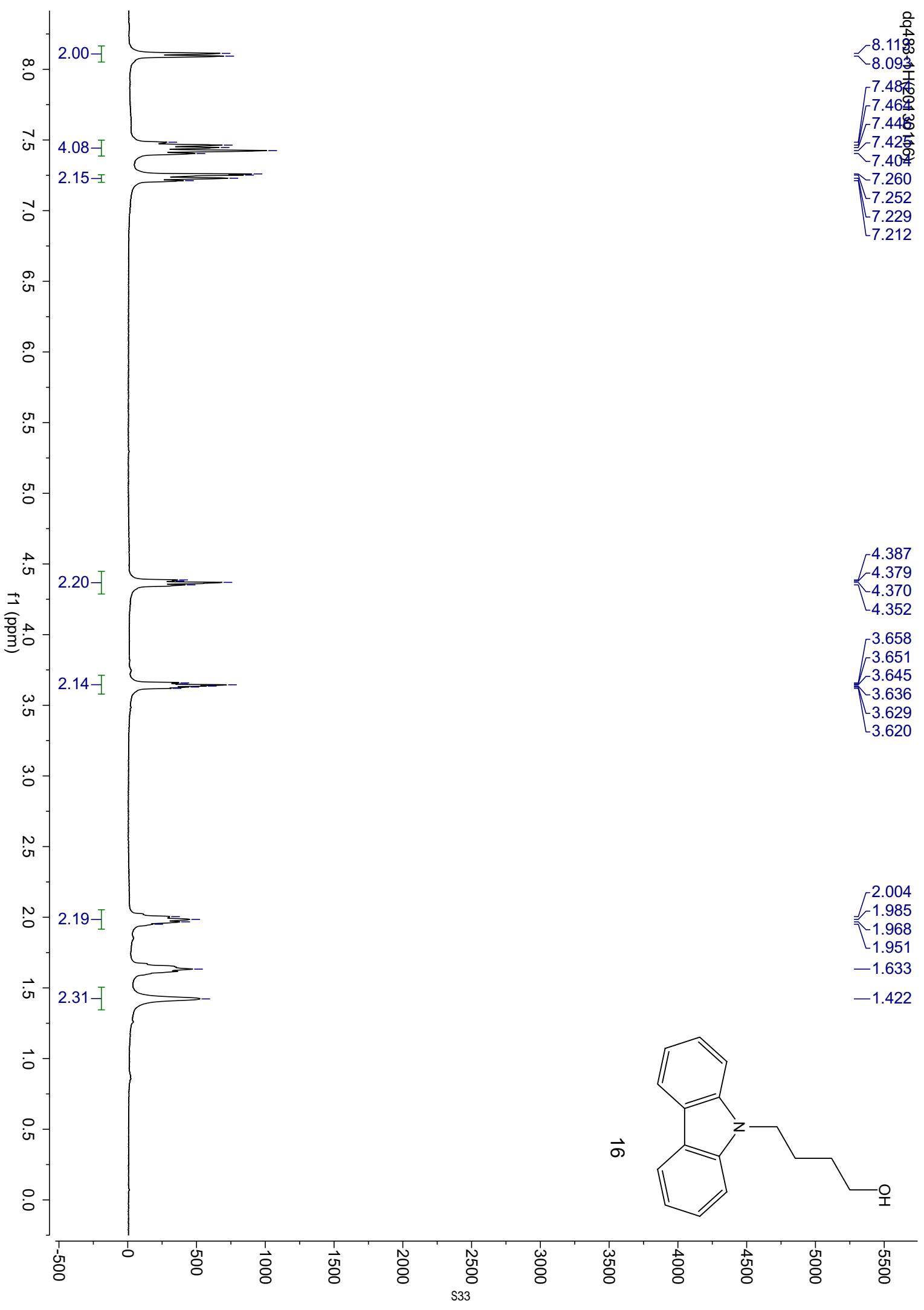


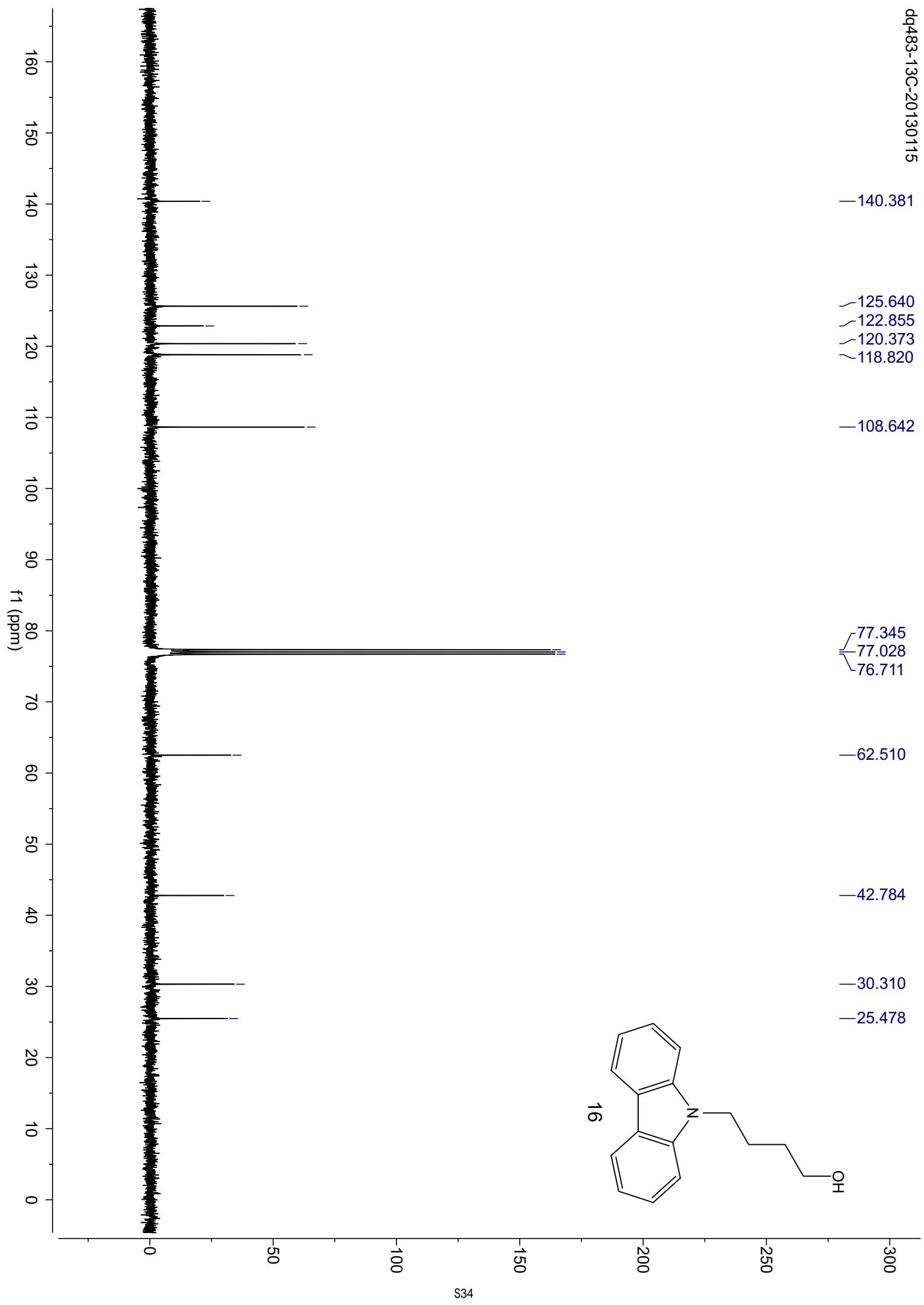




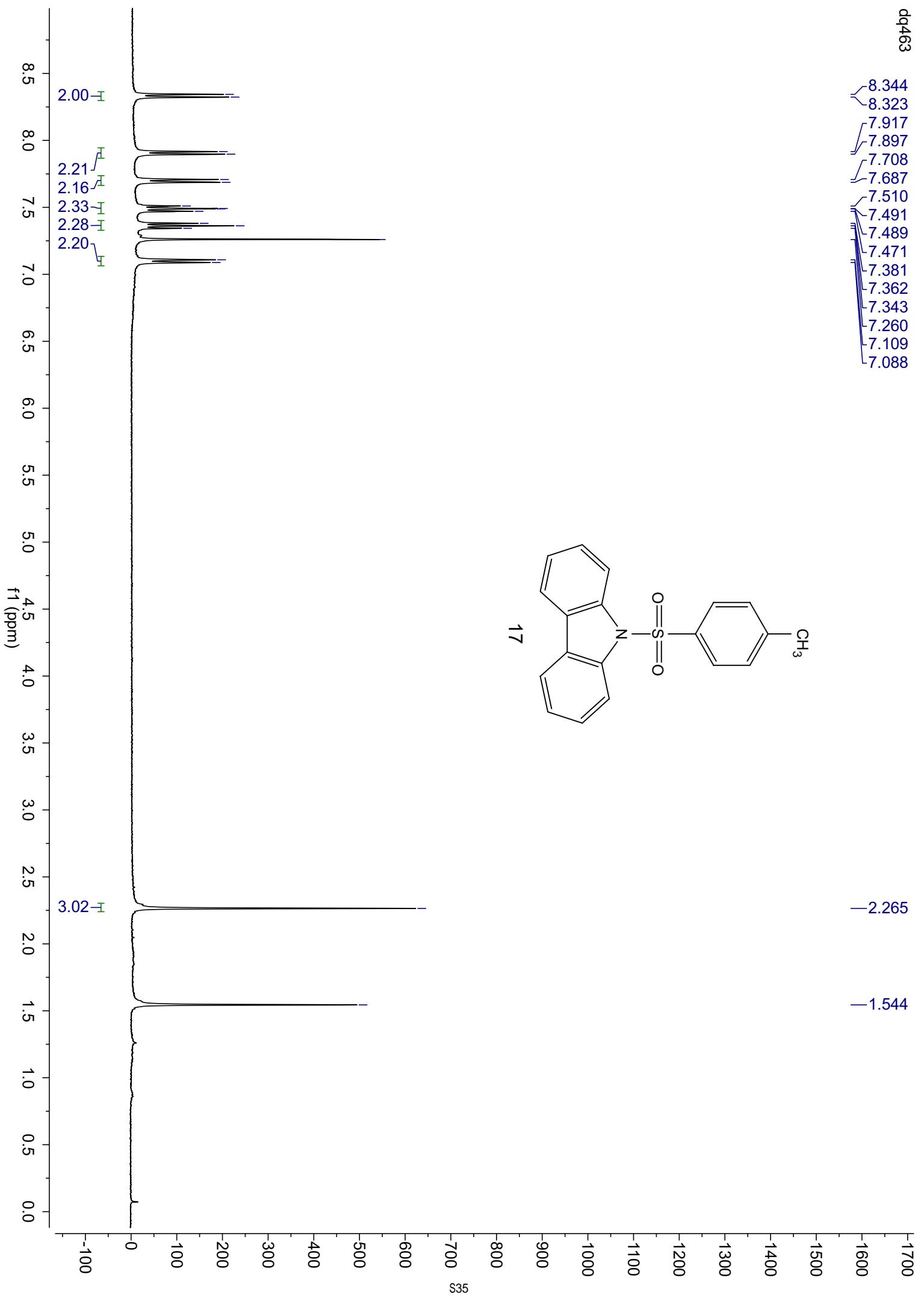




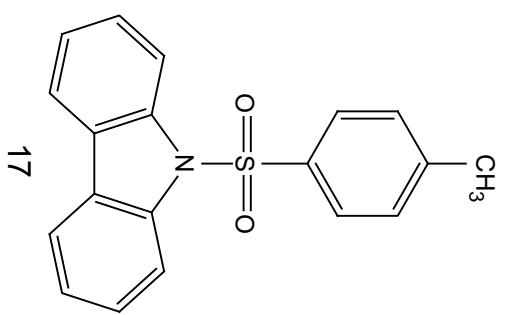
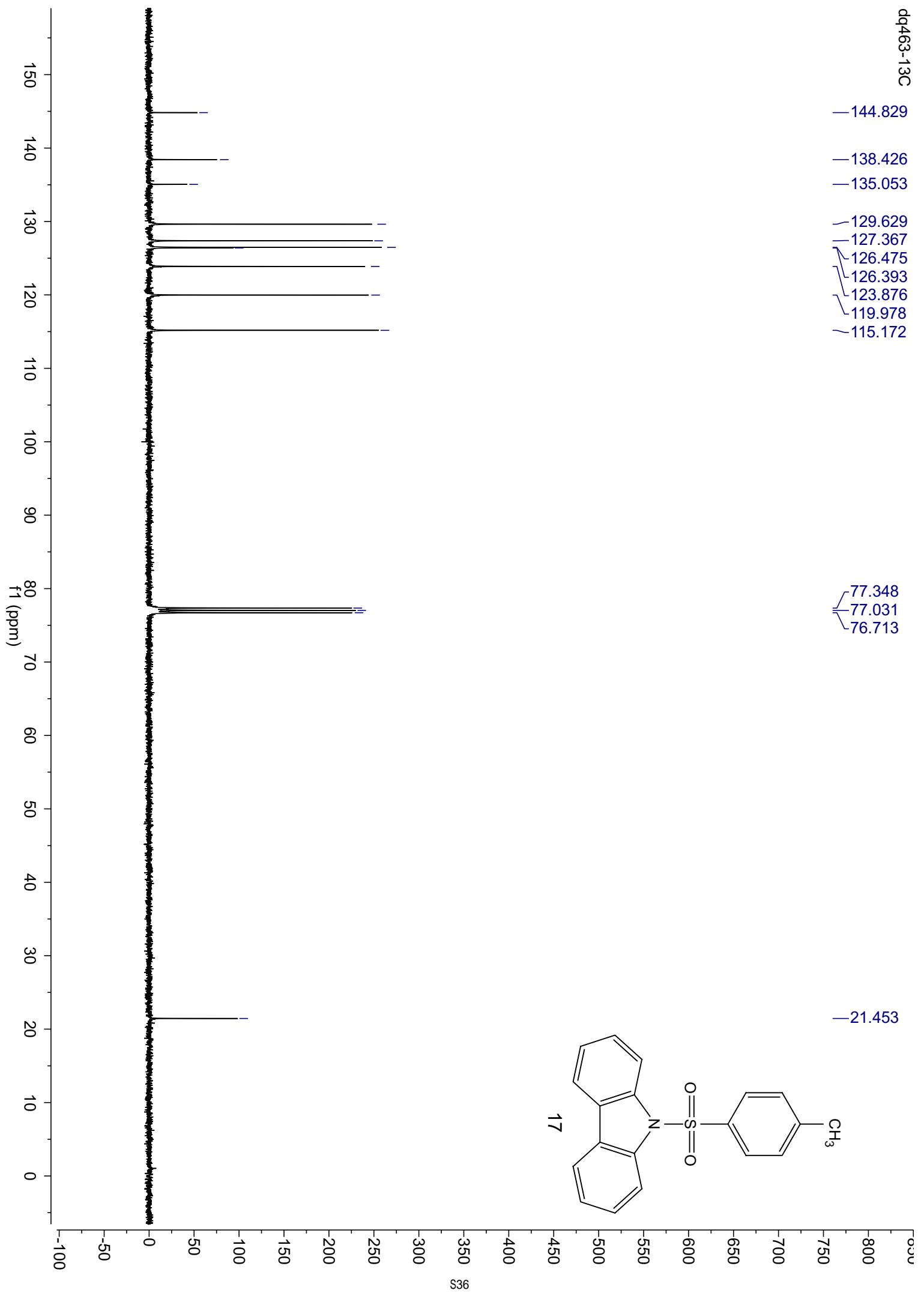


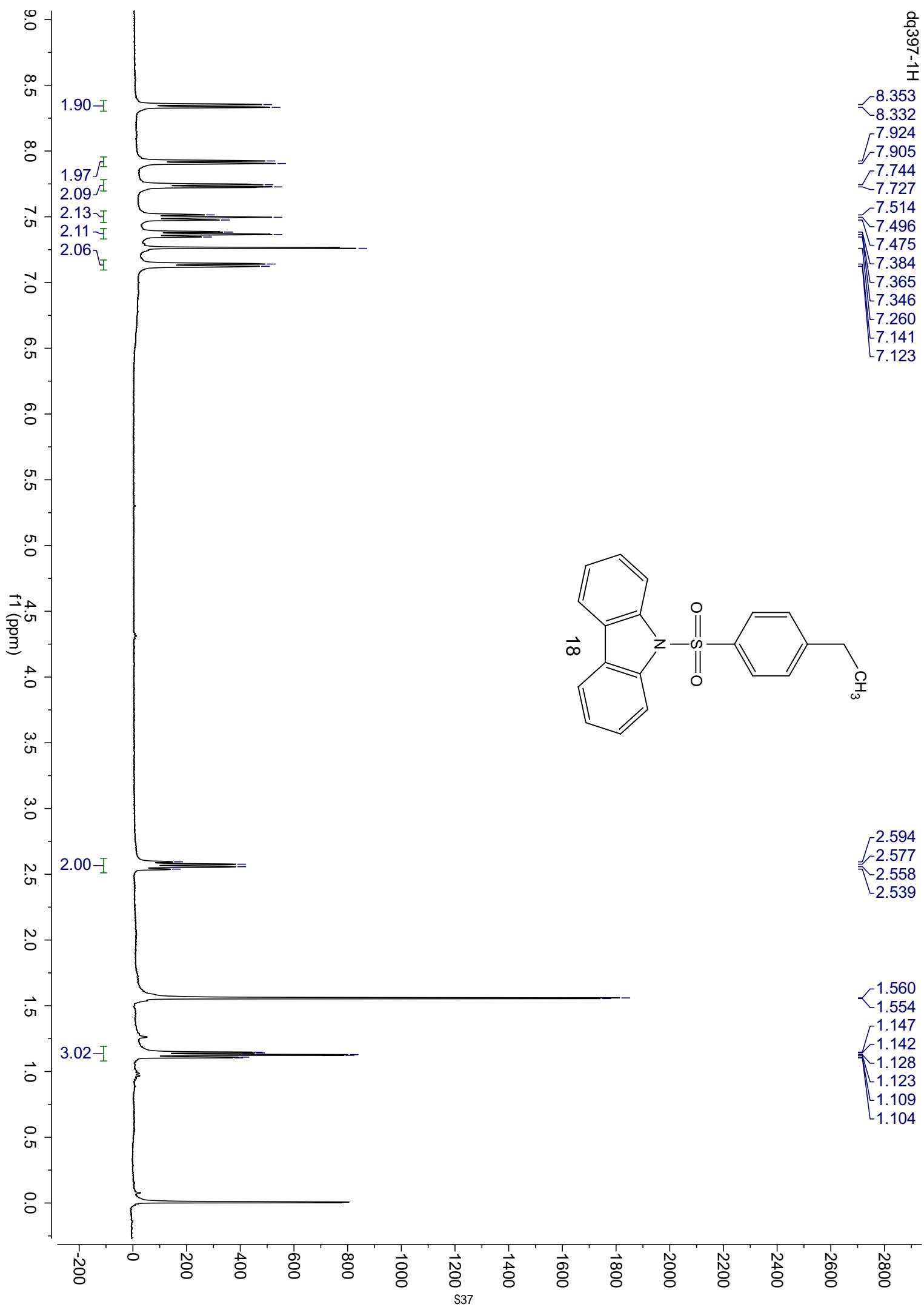


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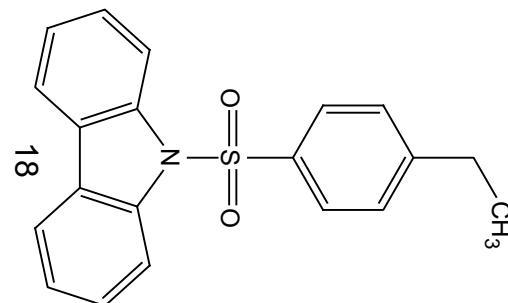
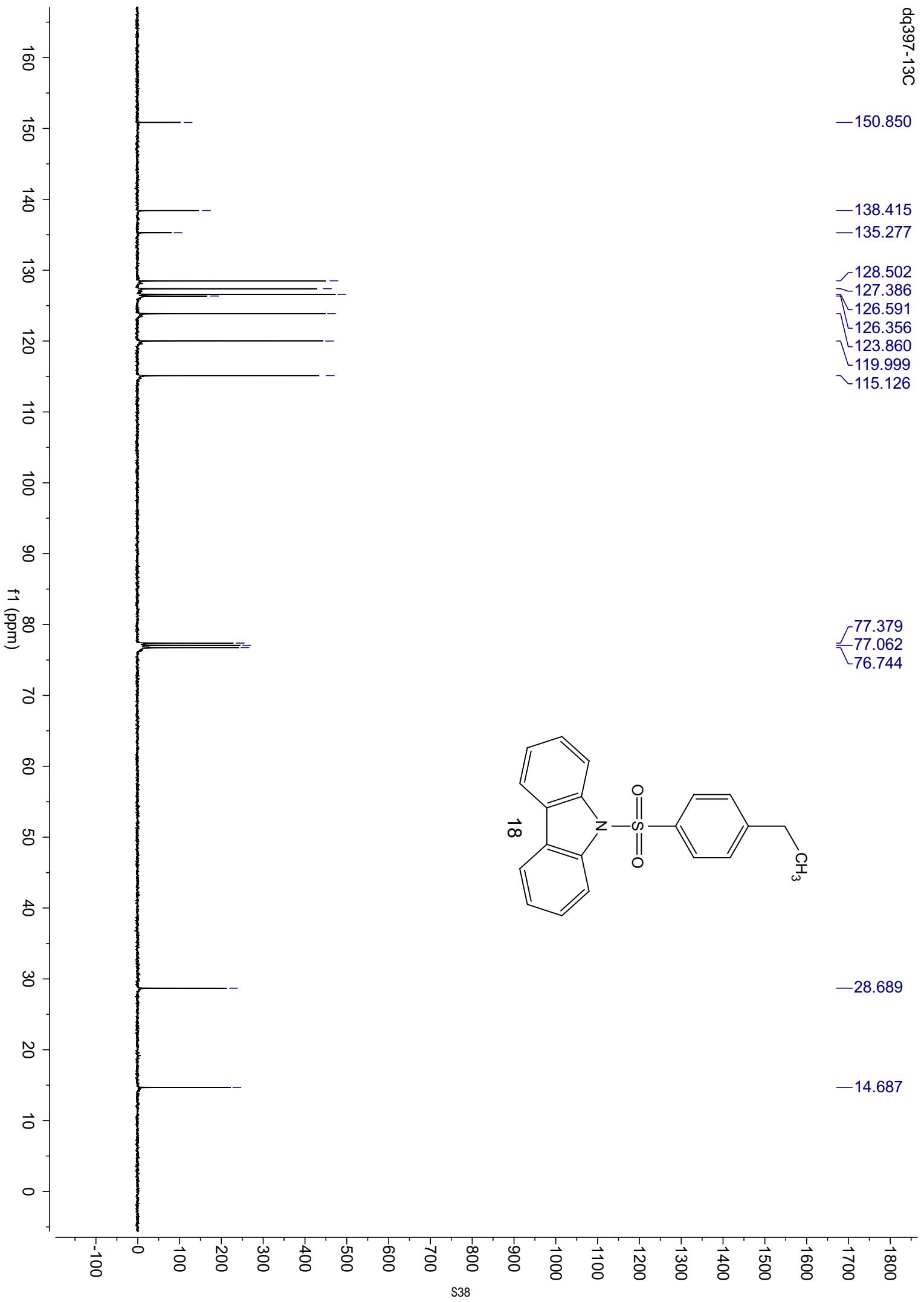


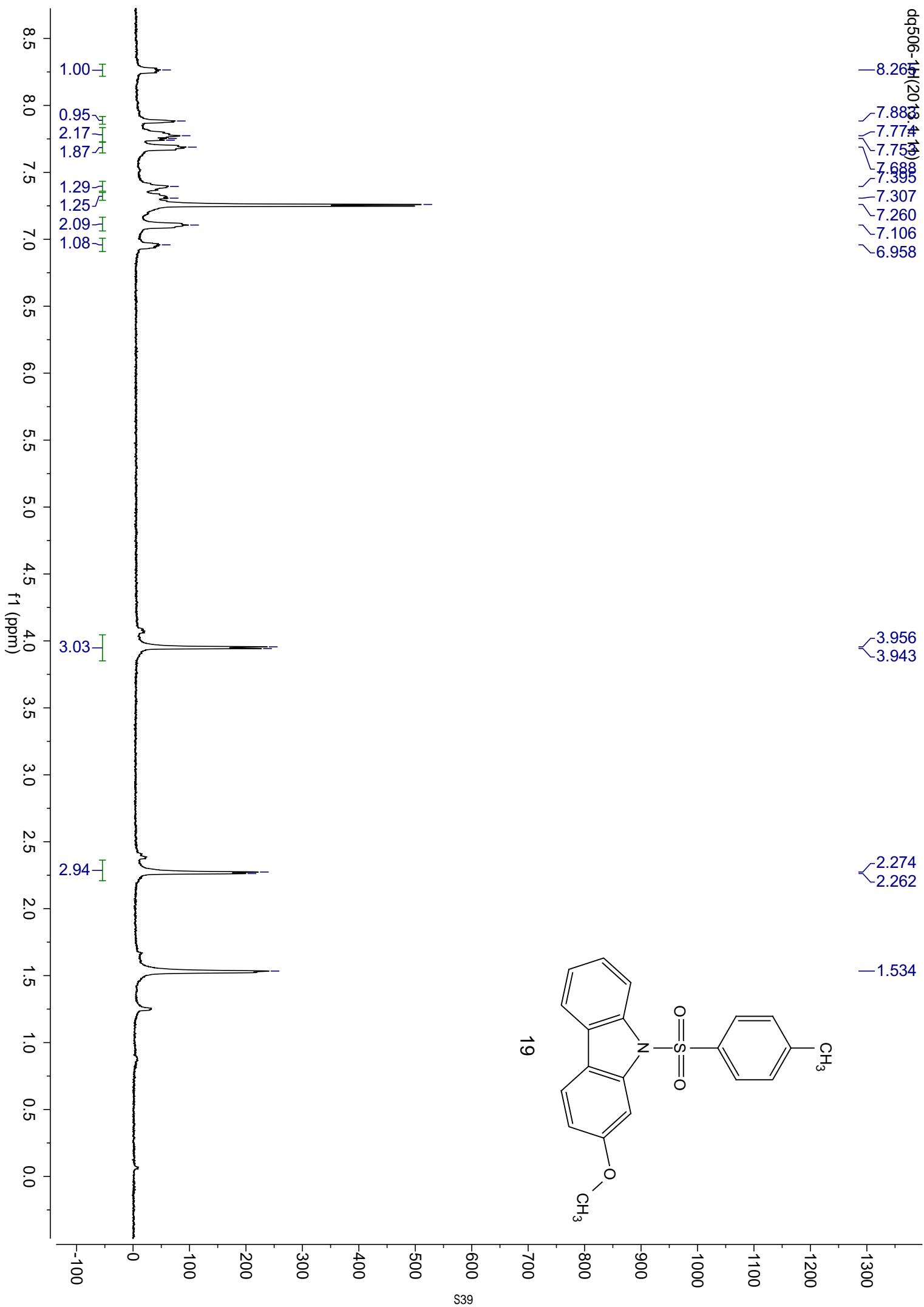
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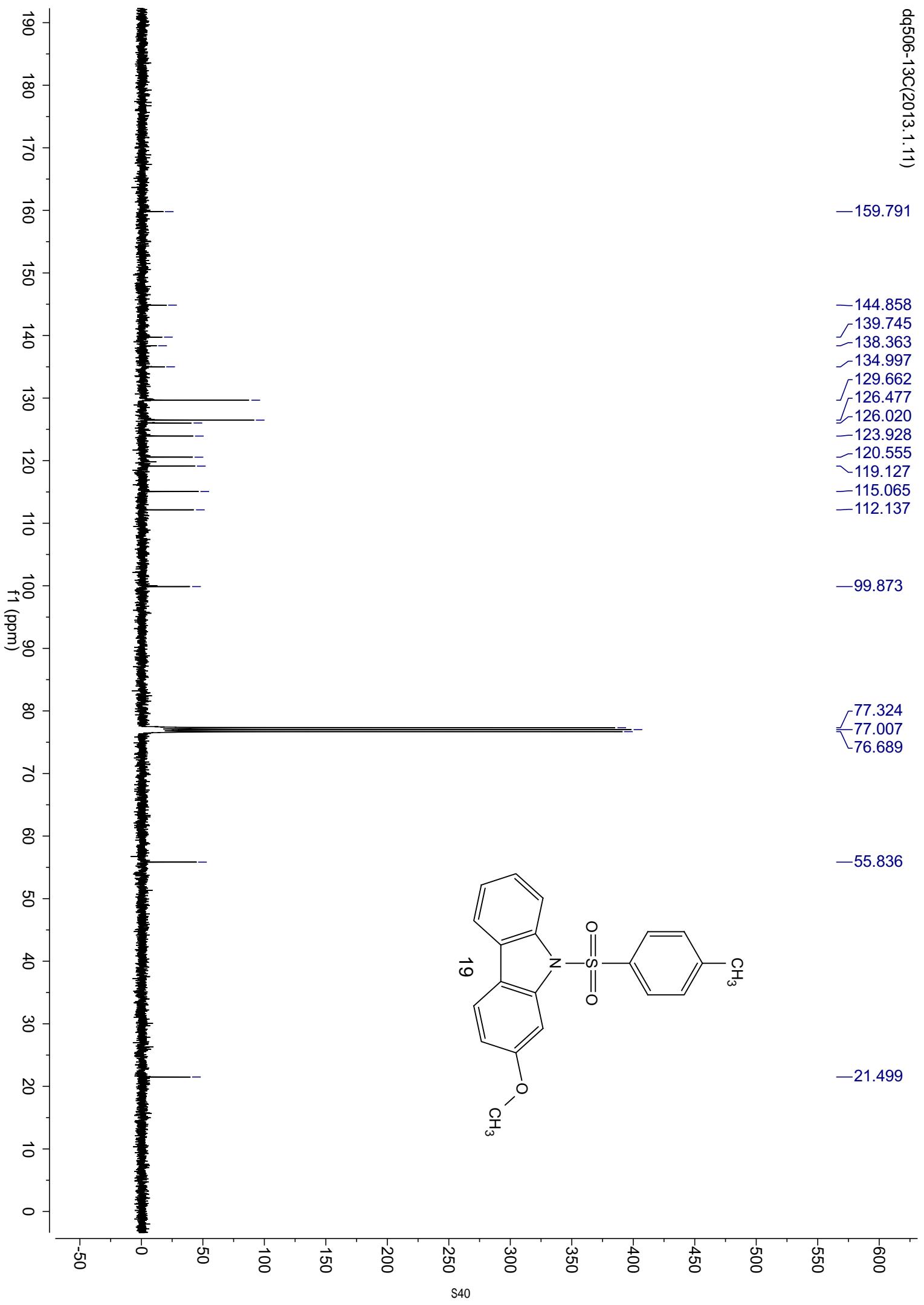


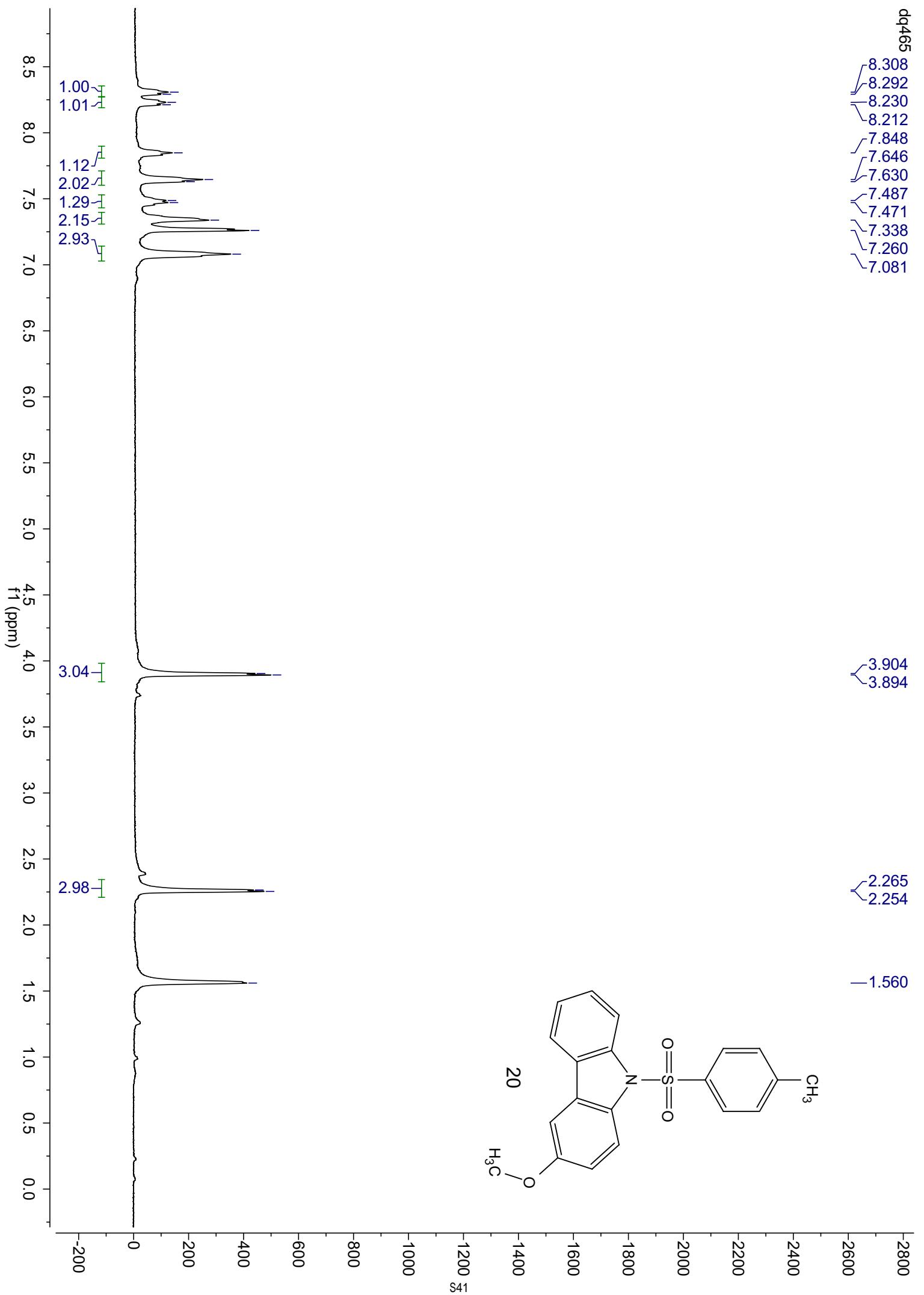


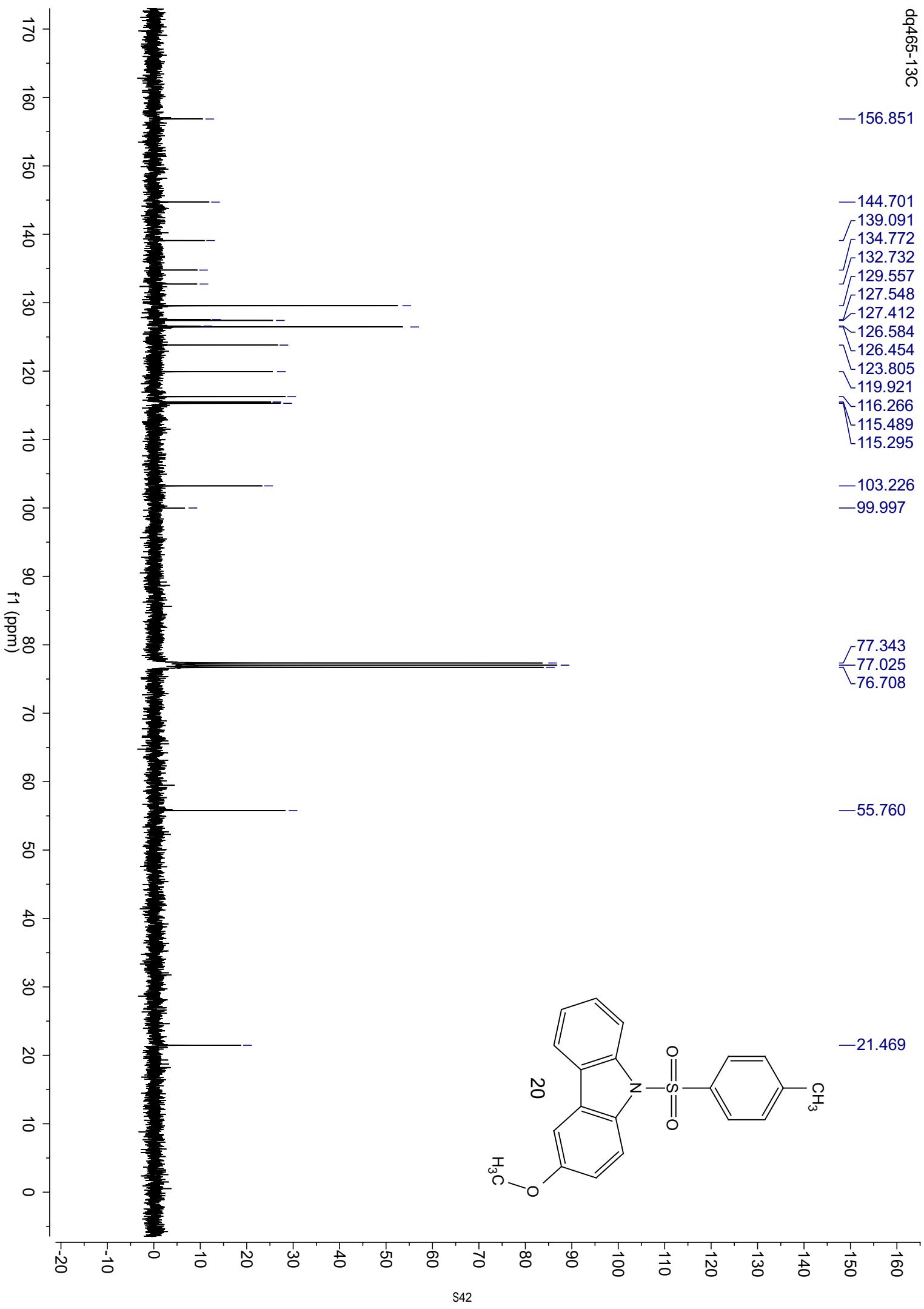
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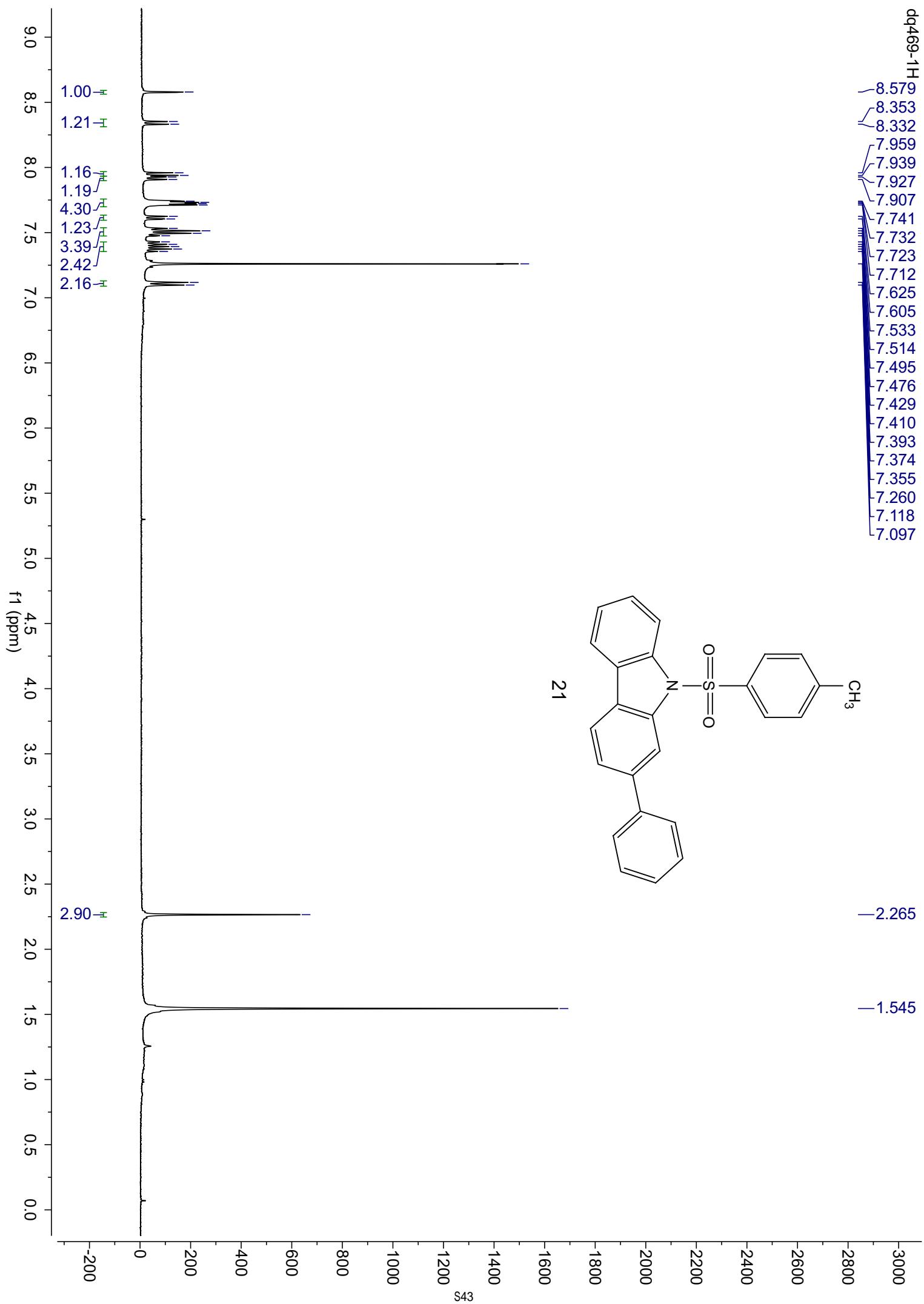




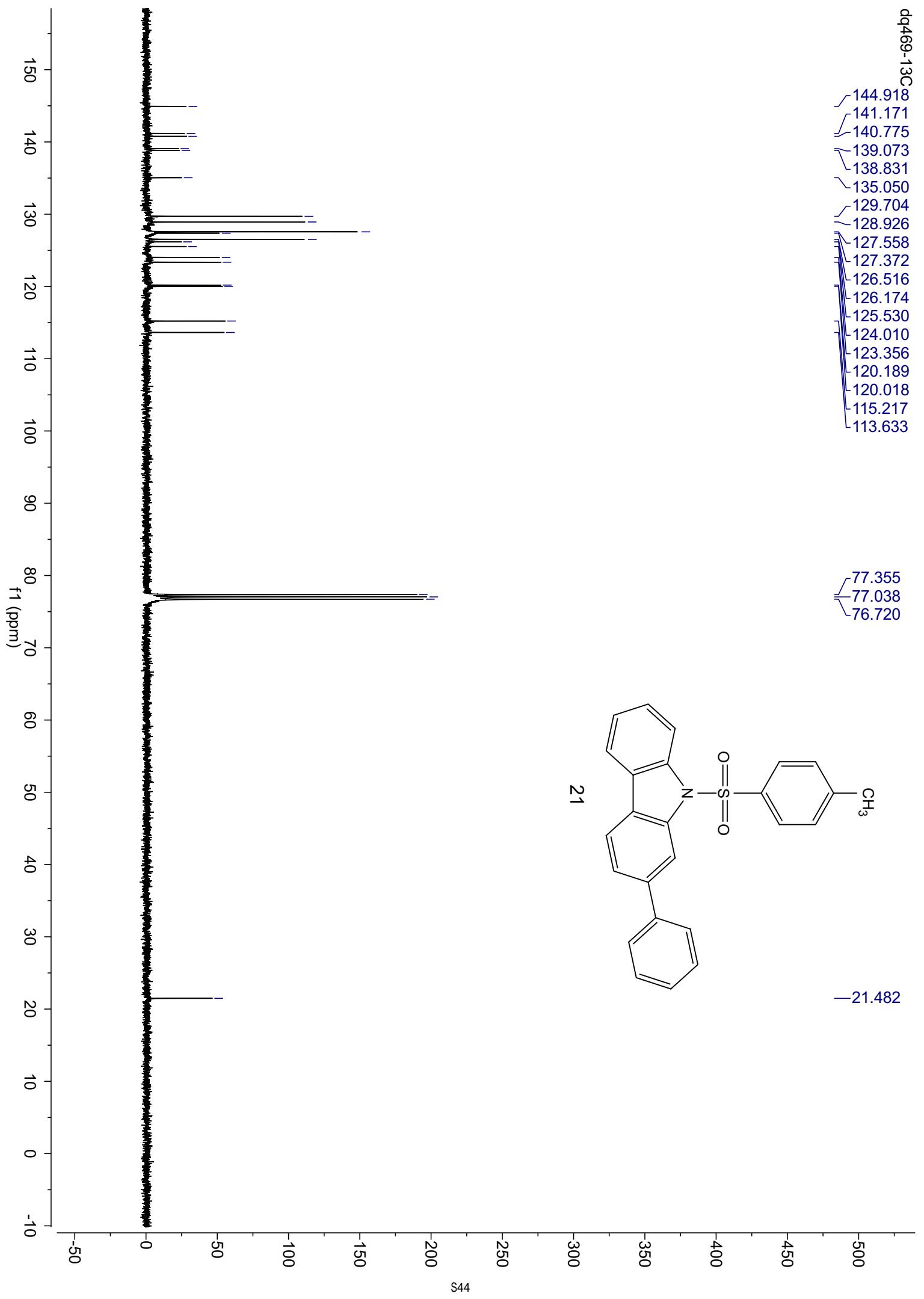




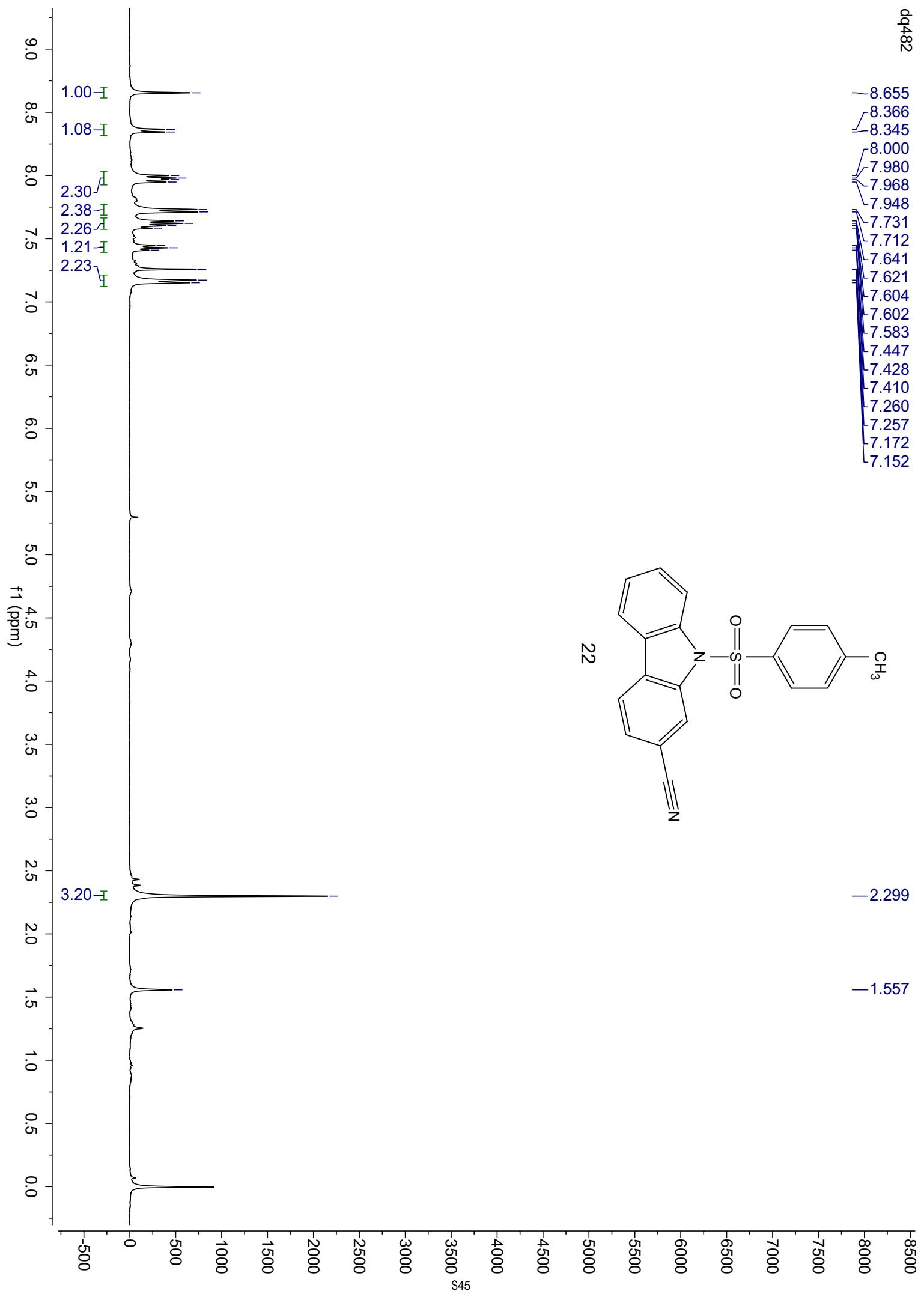


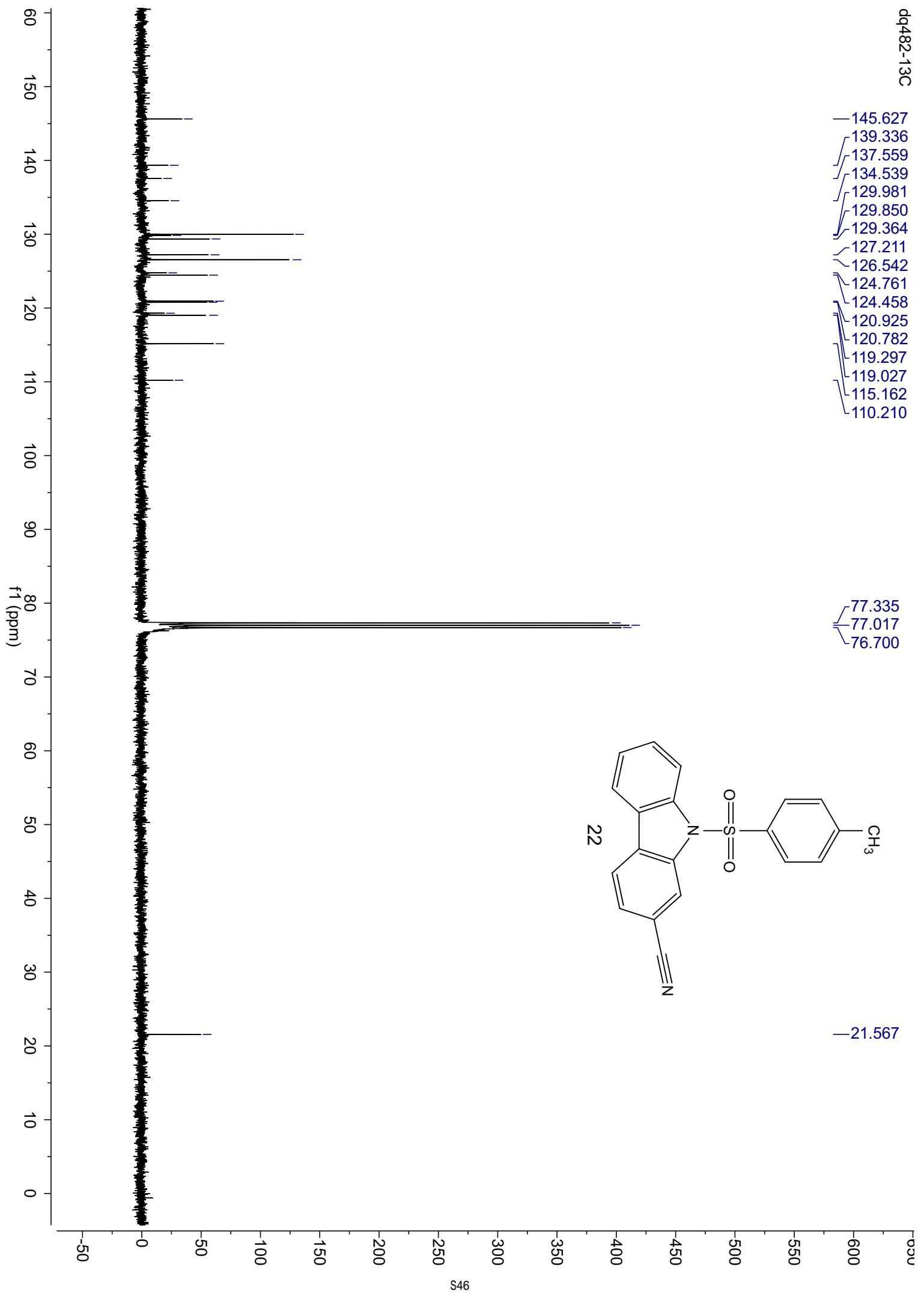


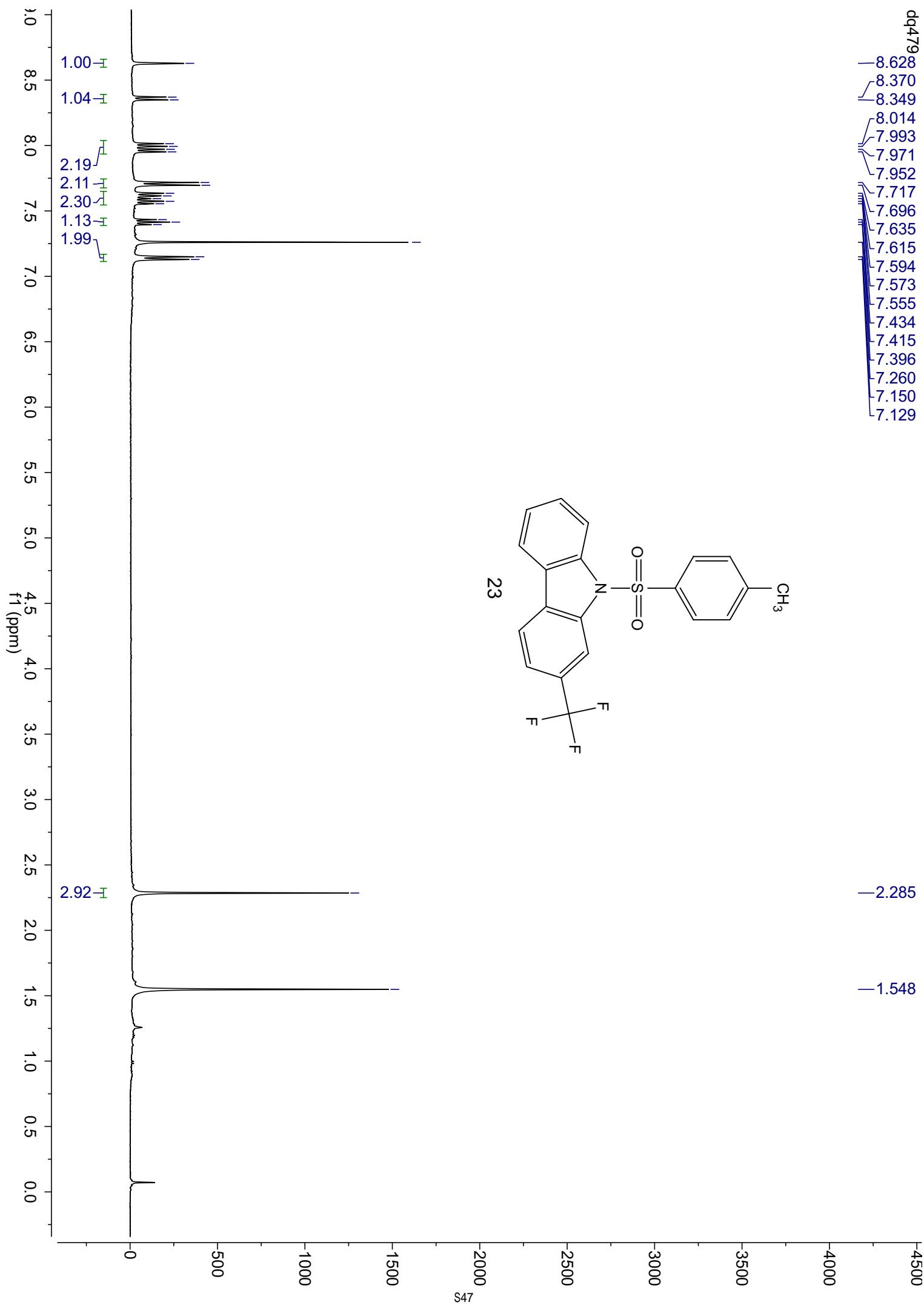
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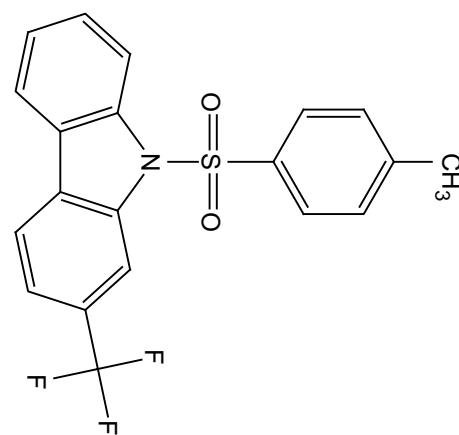
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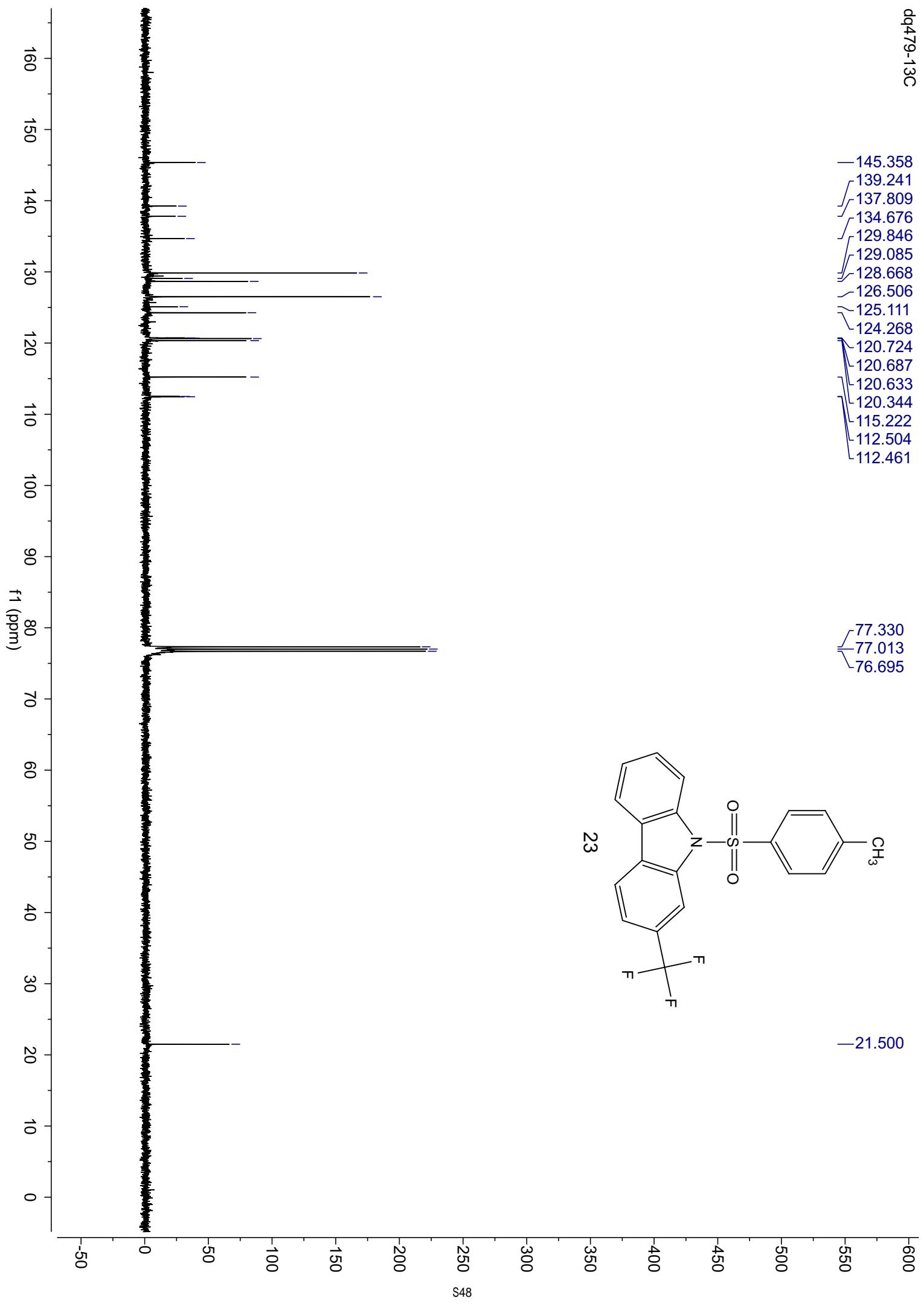


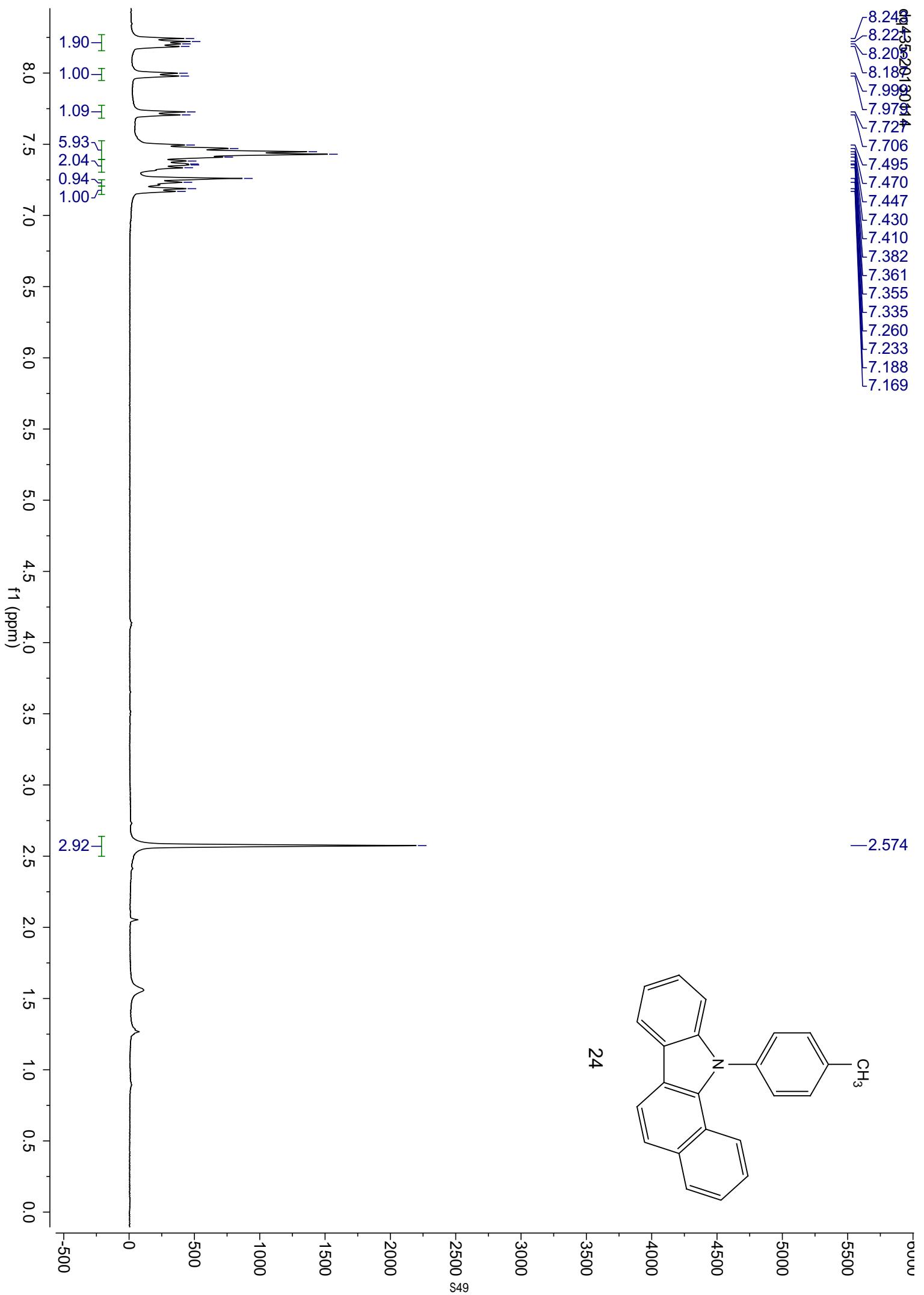


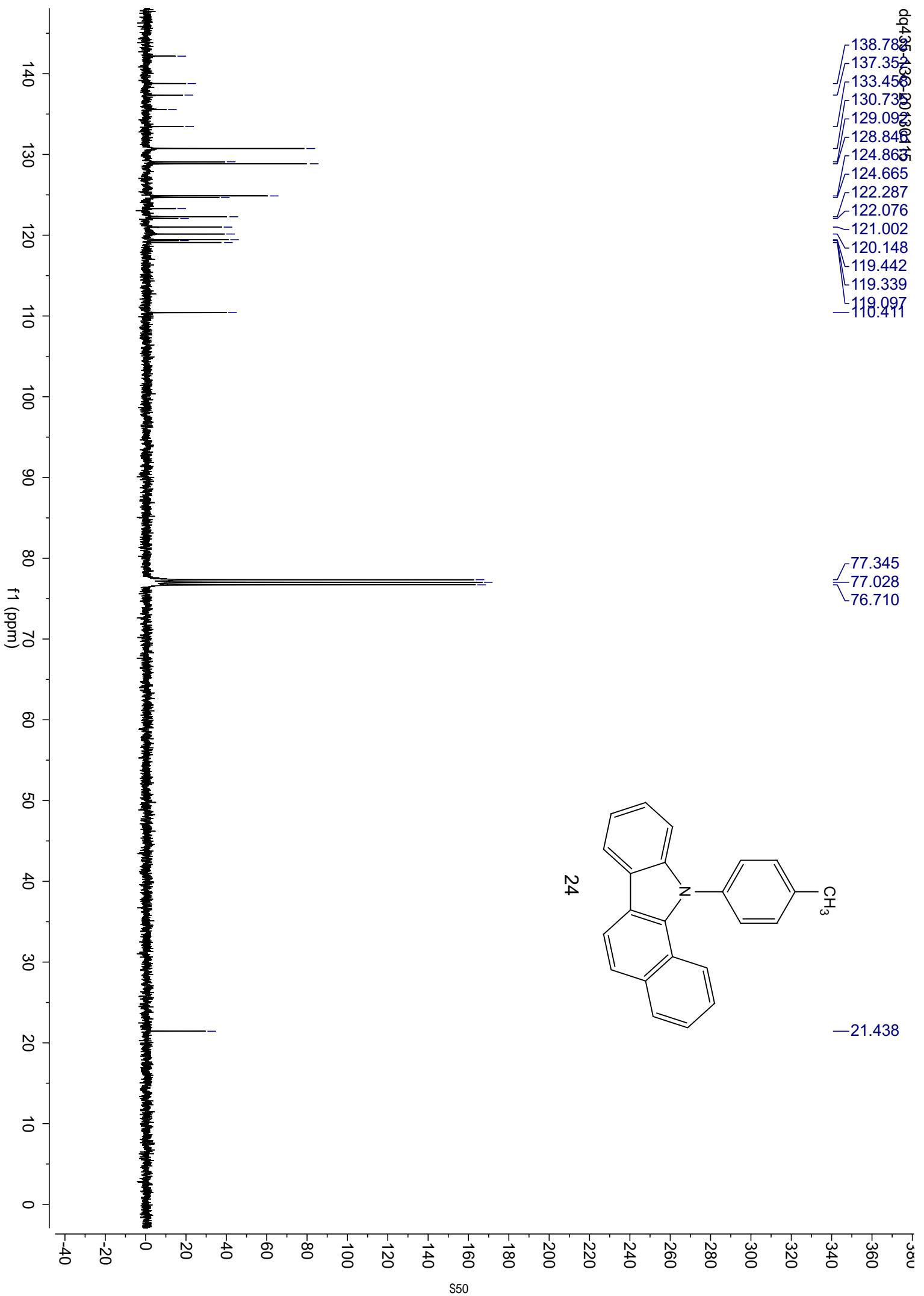


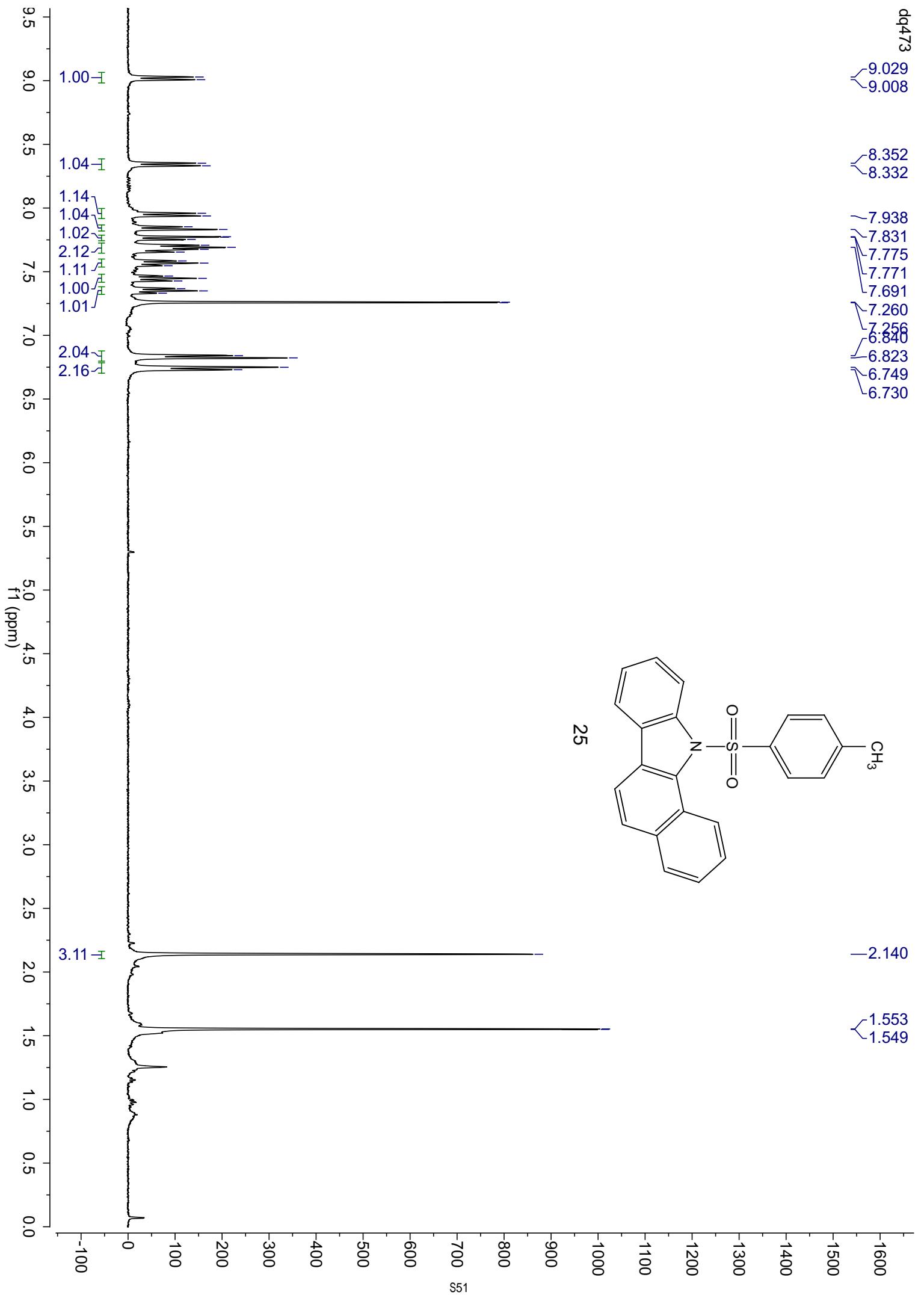
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