

Supporting Information

Hypervalent Iodine-Promoted α -Fluorination of Acetophenone Derivatives with a Triethylamine•HF Complex

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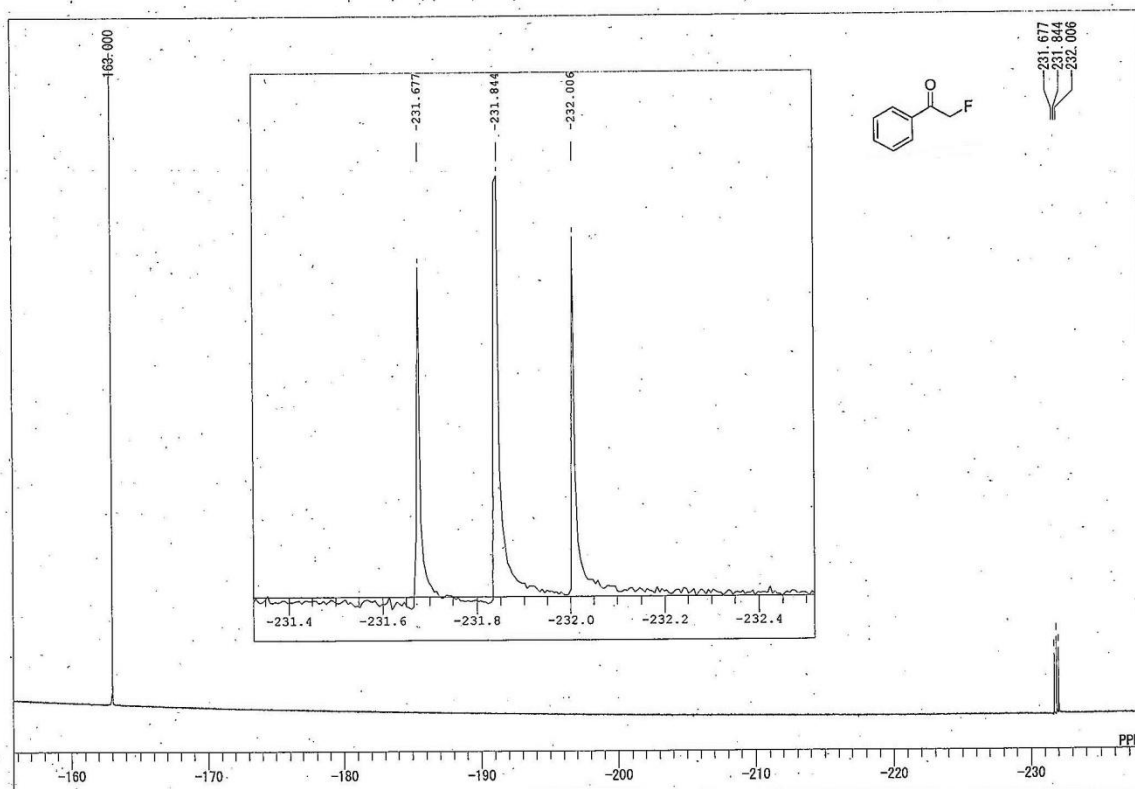
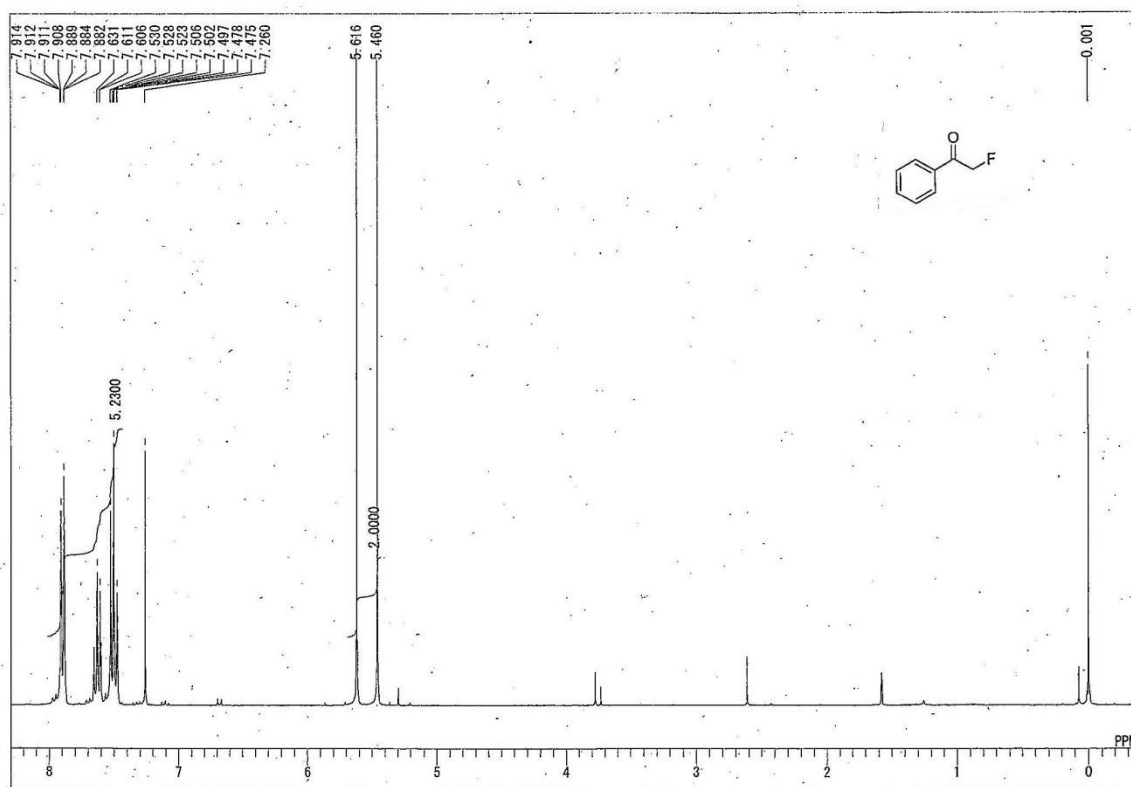
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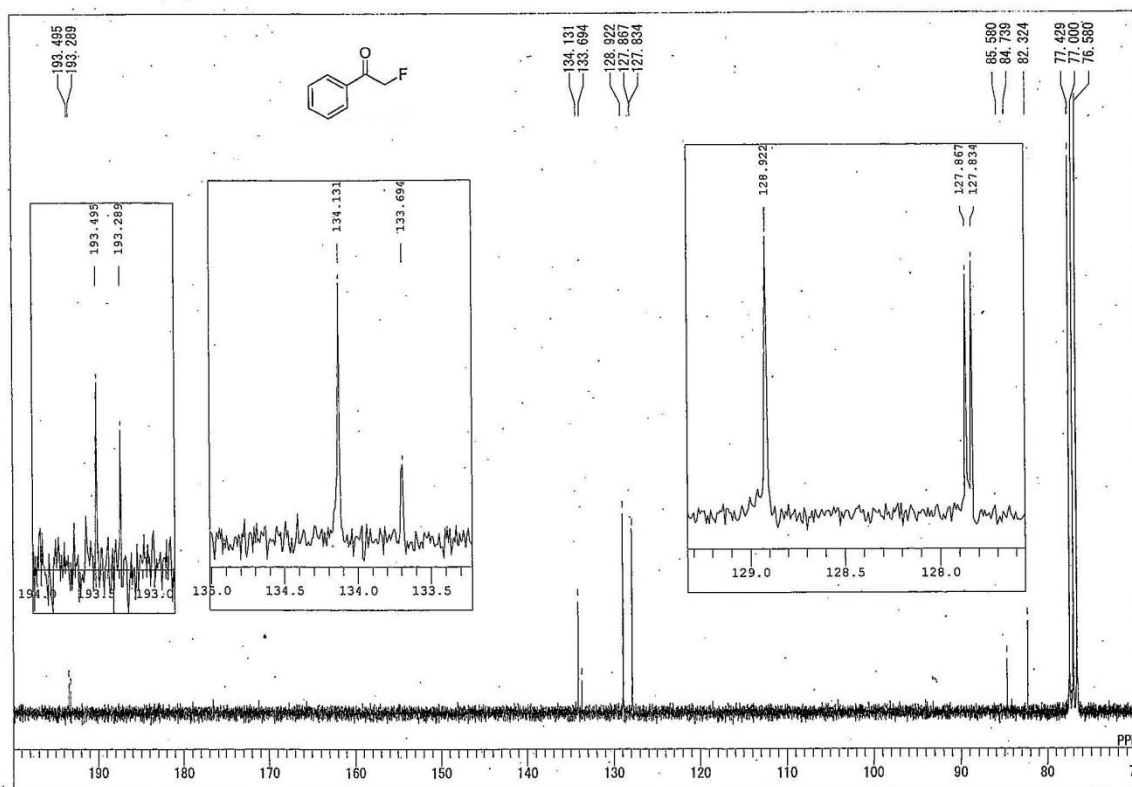
Contents

^1H , ^{19}F and ^{13}C NMR spectra of products **2a-k**:

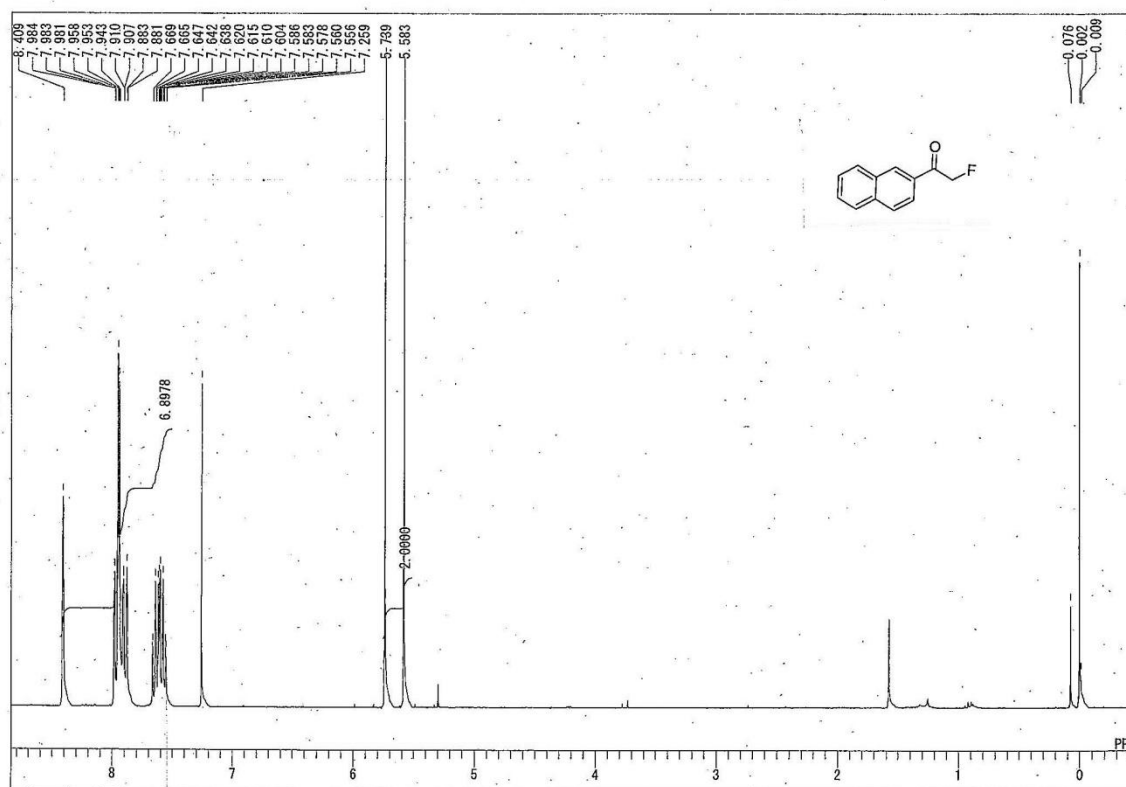
2-Fluoro-2-phenylethanone (2a)	SI-2
2-Fluoro-1-(2-naphthalenyl)ethanone (2b)	SI-3
2-Fluoro-1-(1-naphthalenyl)ethanone (2c)	SI-5
2-Fluoro-1-(4-methylphenyl)ethanone (2d)	SI-6
1-(4-Chlorophenyl)-2-fluoroethanone (2e)	SI-8
2-Fluoro-1-(4-methoxyphenyl)ethanone (2f)	SI-9
2-Fluoro-1,2-diphenylethanone (2g)	SI-11
2-Fluoro-1-phenylpropanone (2h)	SI-12
2-Fluoro-1-phenylbutanone (2i)	SI-14
2-Fluoro-1-indanone (2j)	SI-15
2-Chloro-2-fluoro-1-phenylethanone (2k)	SI-17

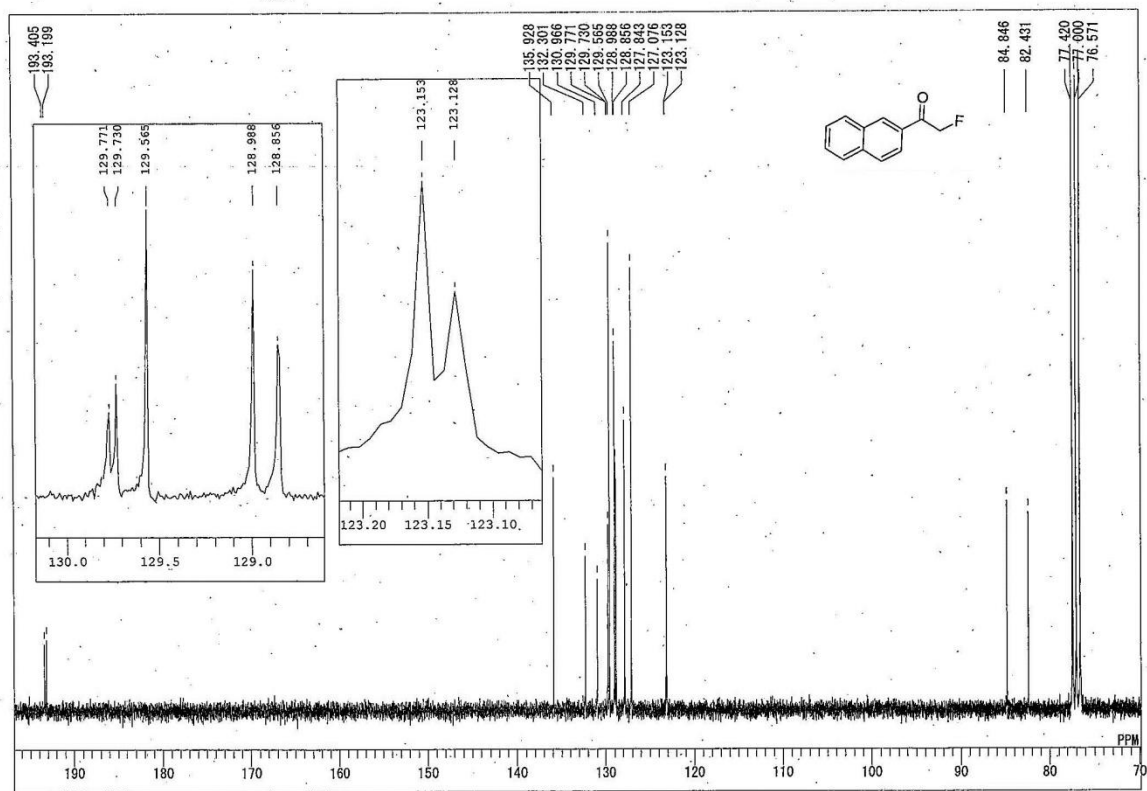
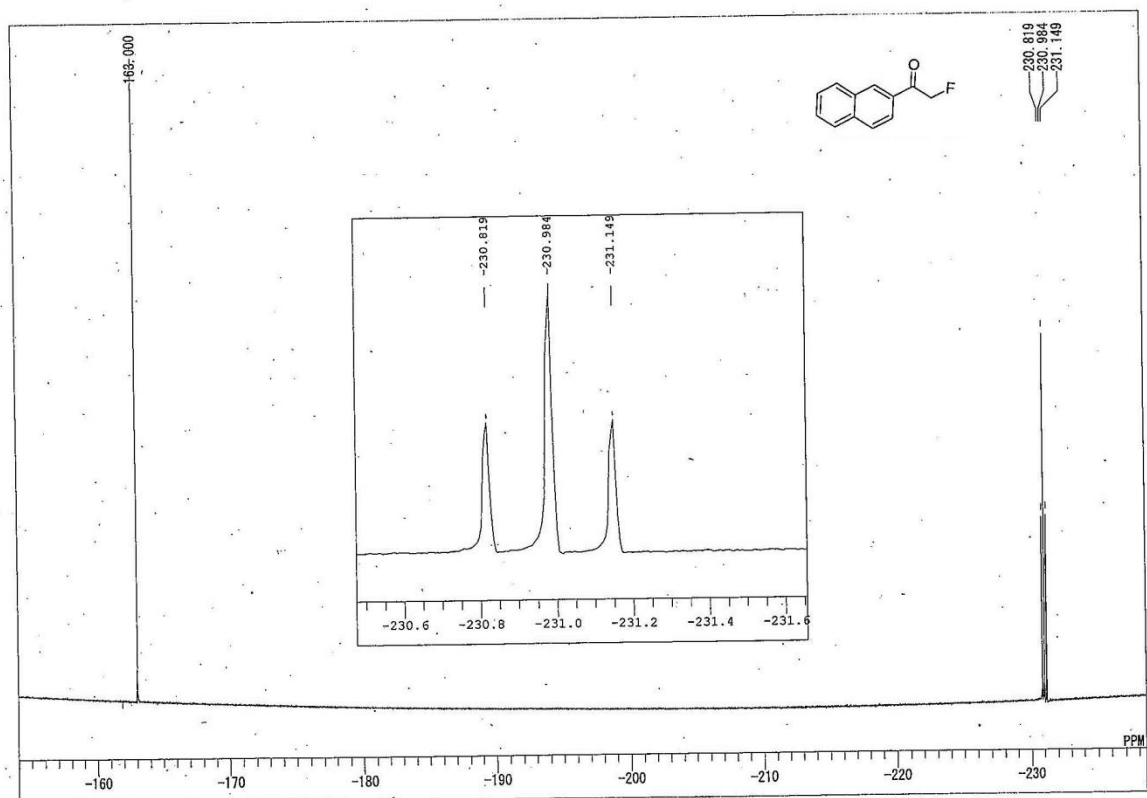
2-Fluoro-2-phenylethanone (2a)



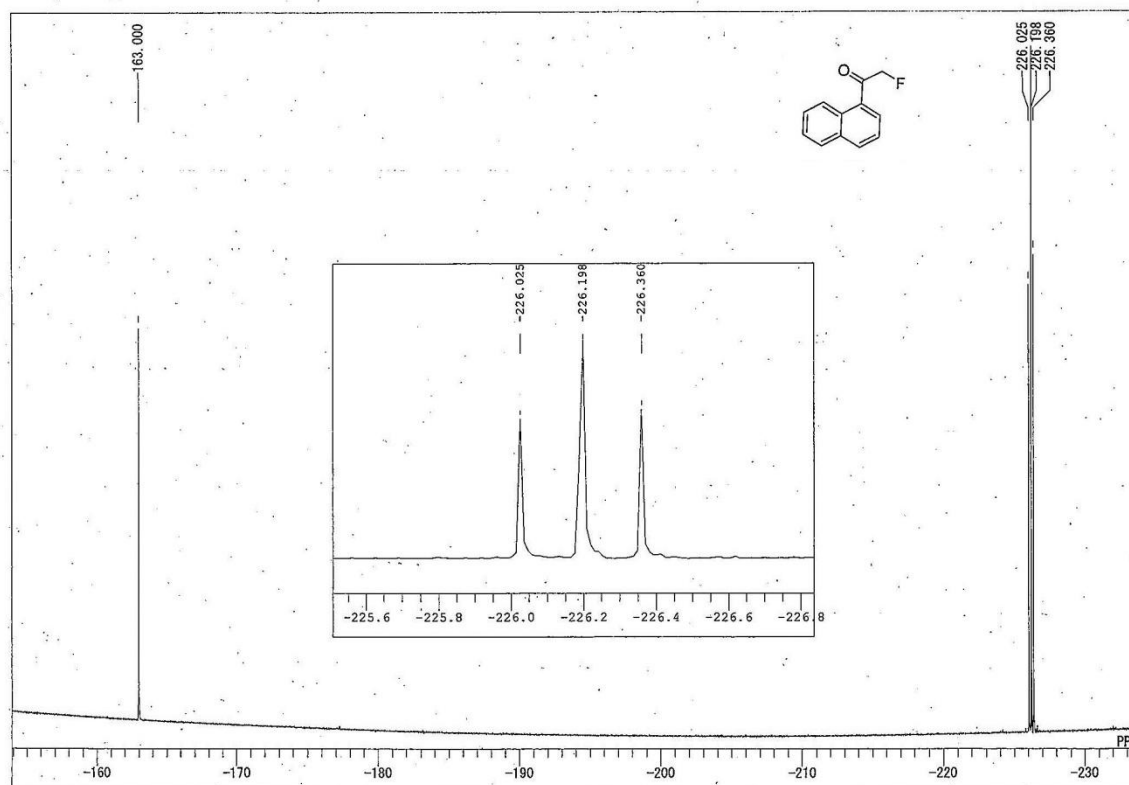
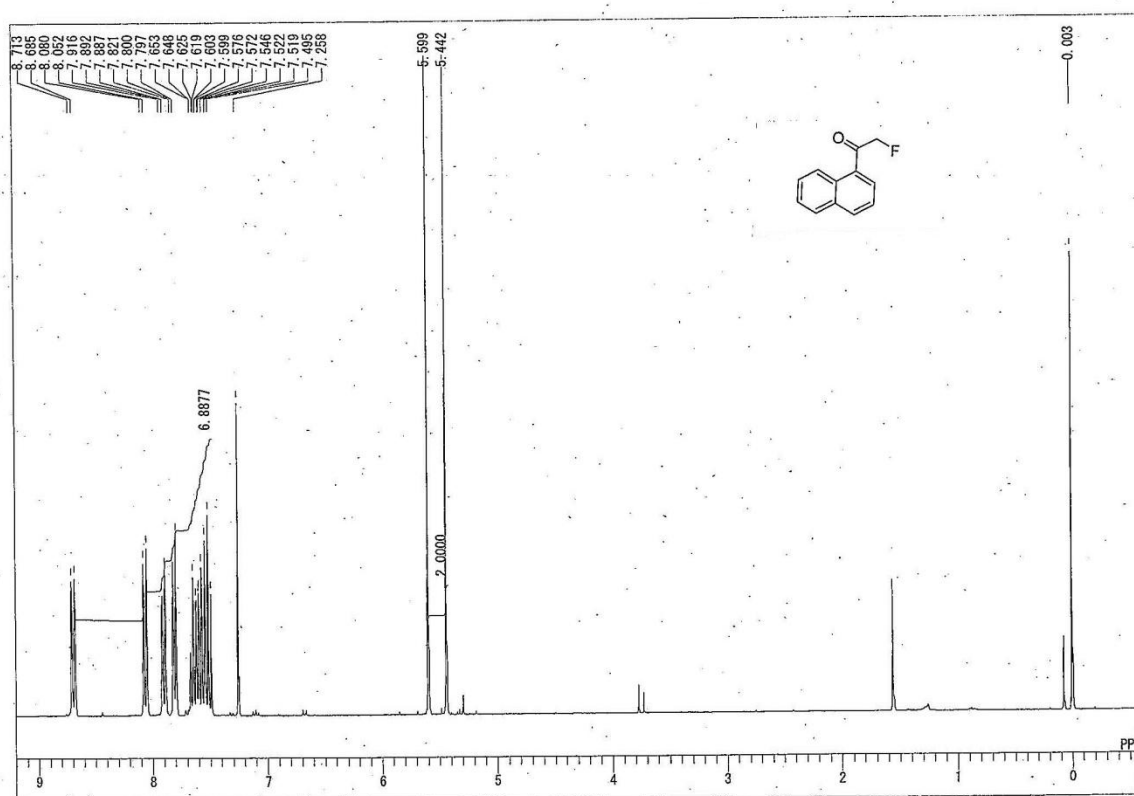


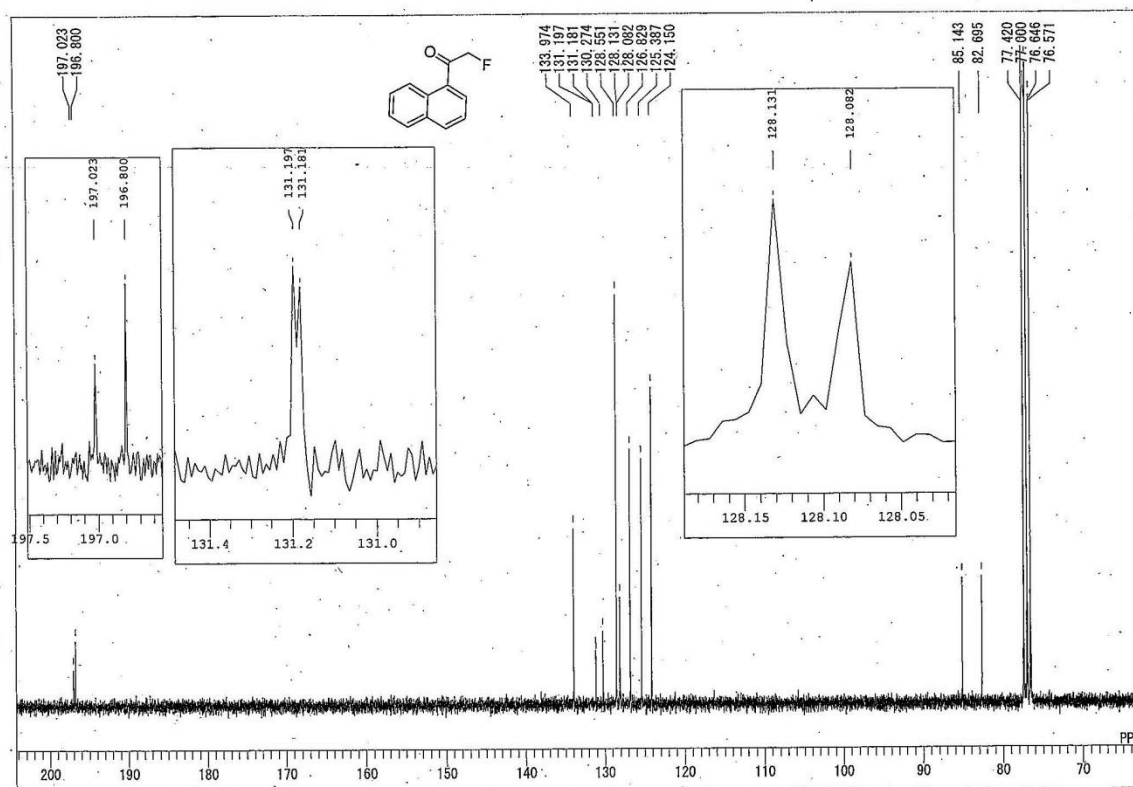
2-Fluoro-1-(2-naphthalenyl)ethanone (**2b**)



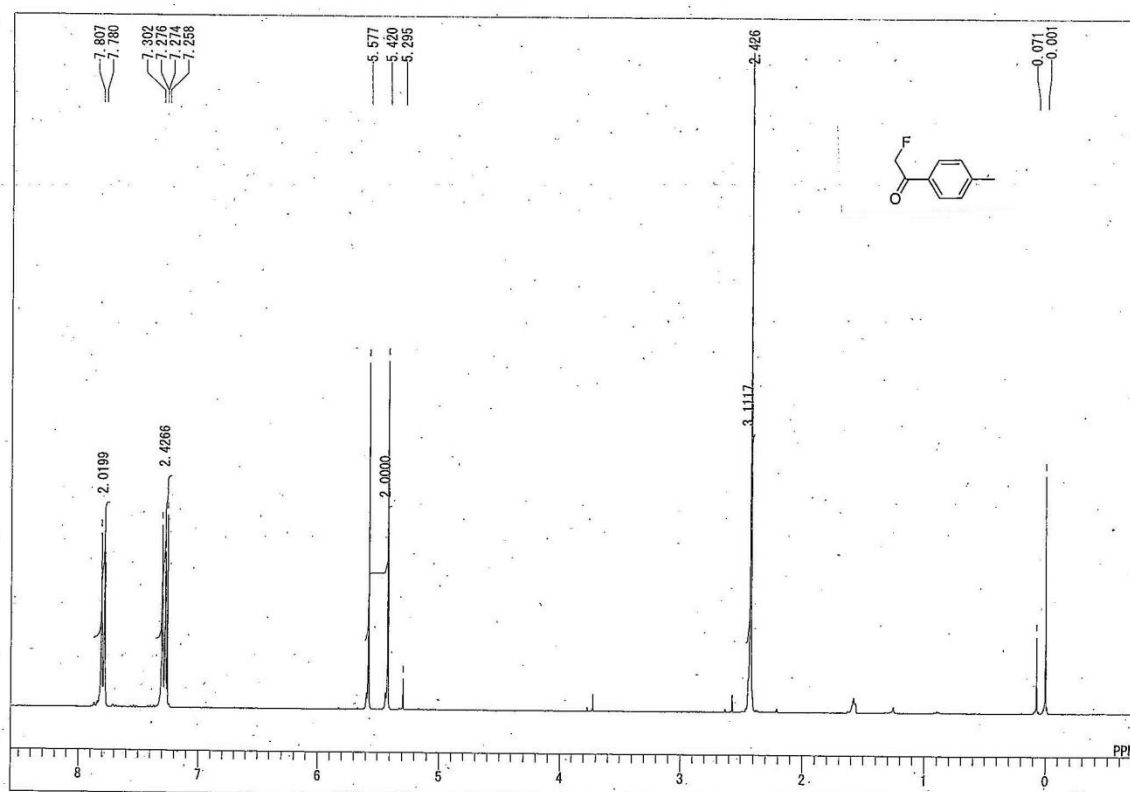


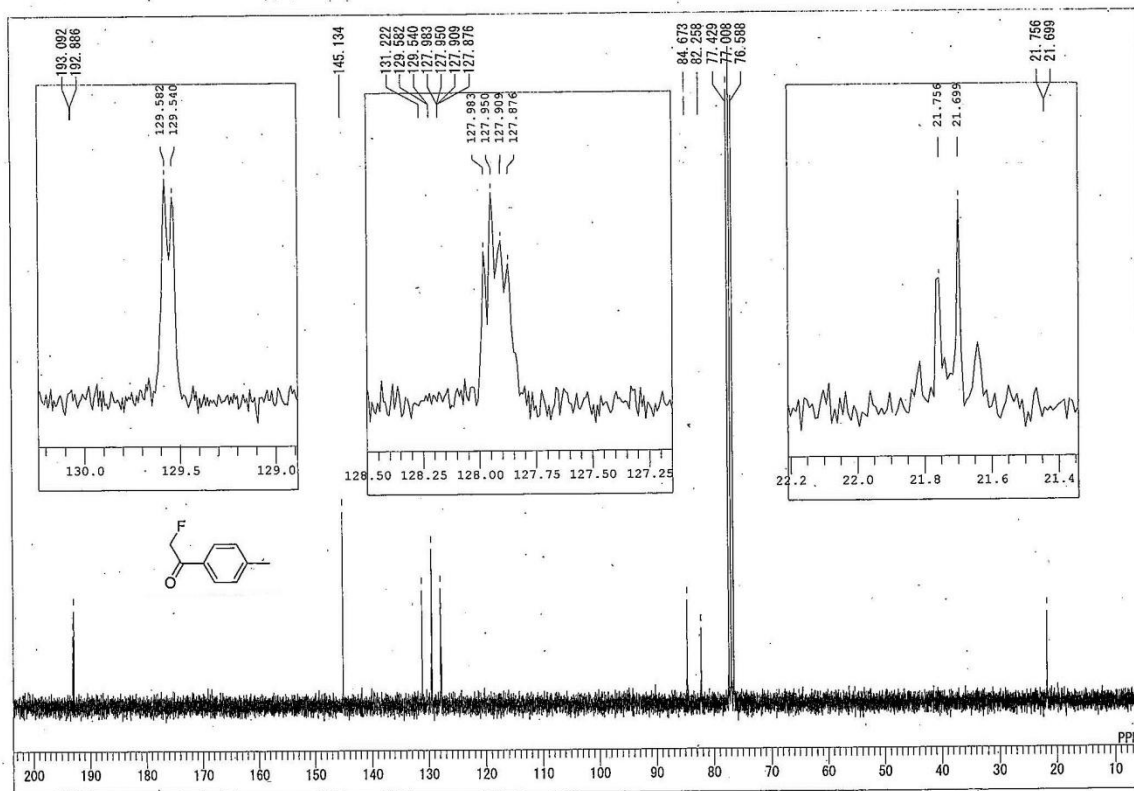
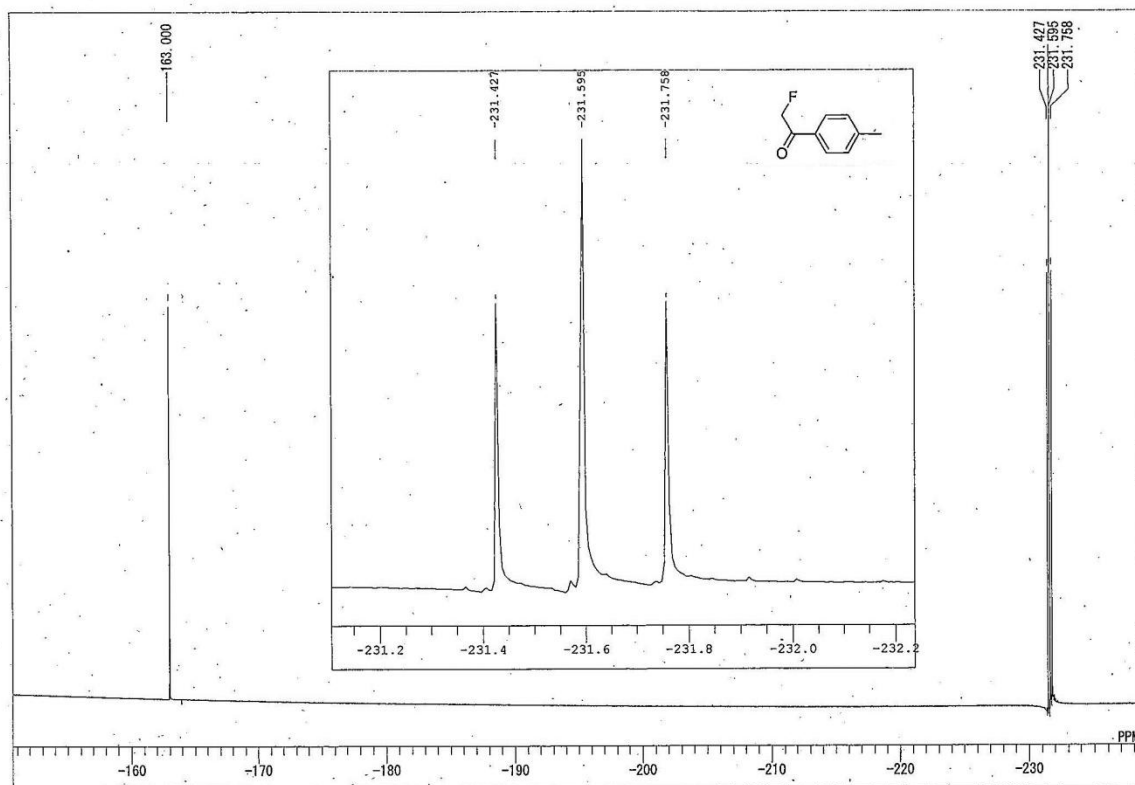
2-Fluoro-1-(1-naphthalenyl)ethanone (2c)



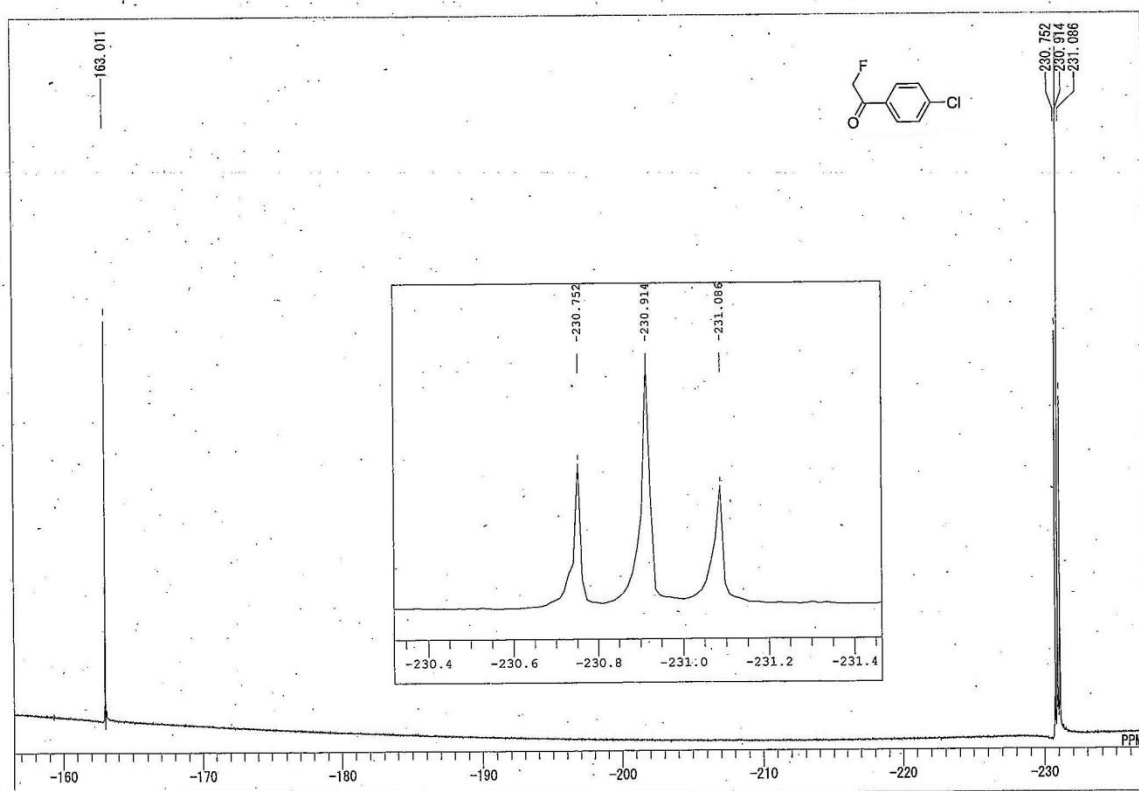
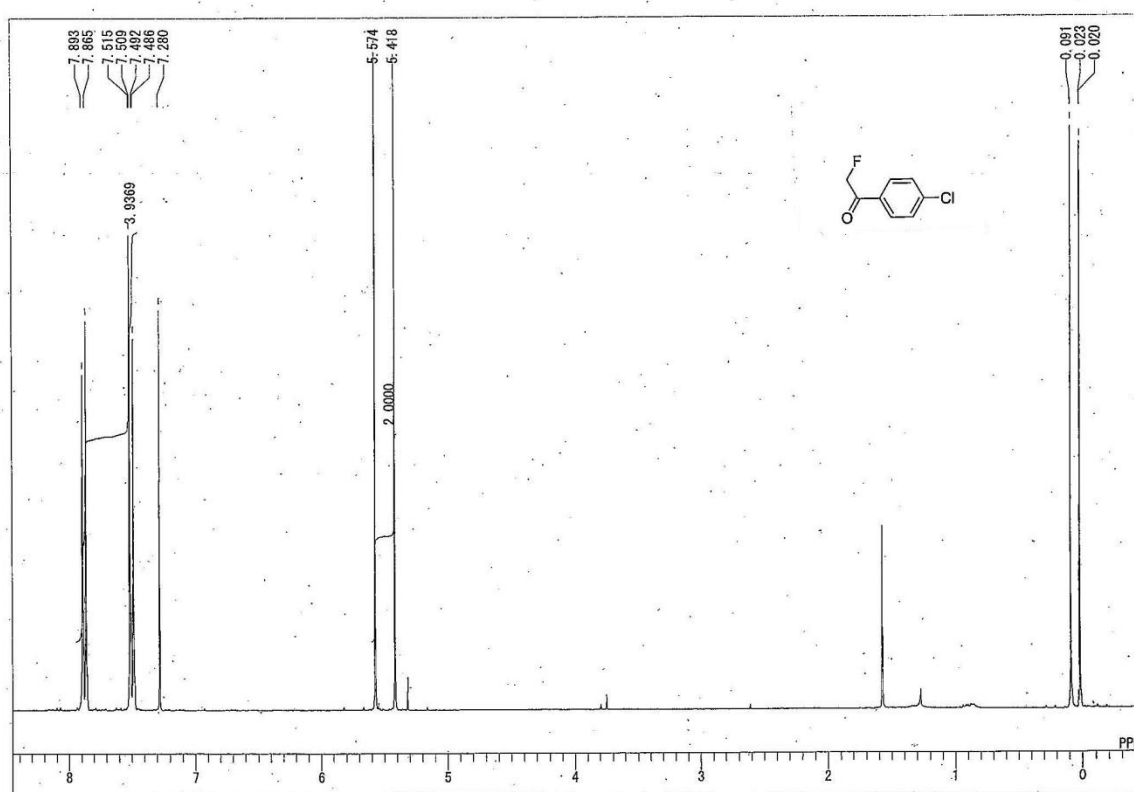


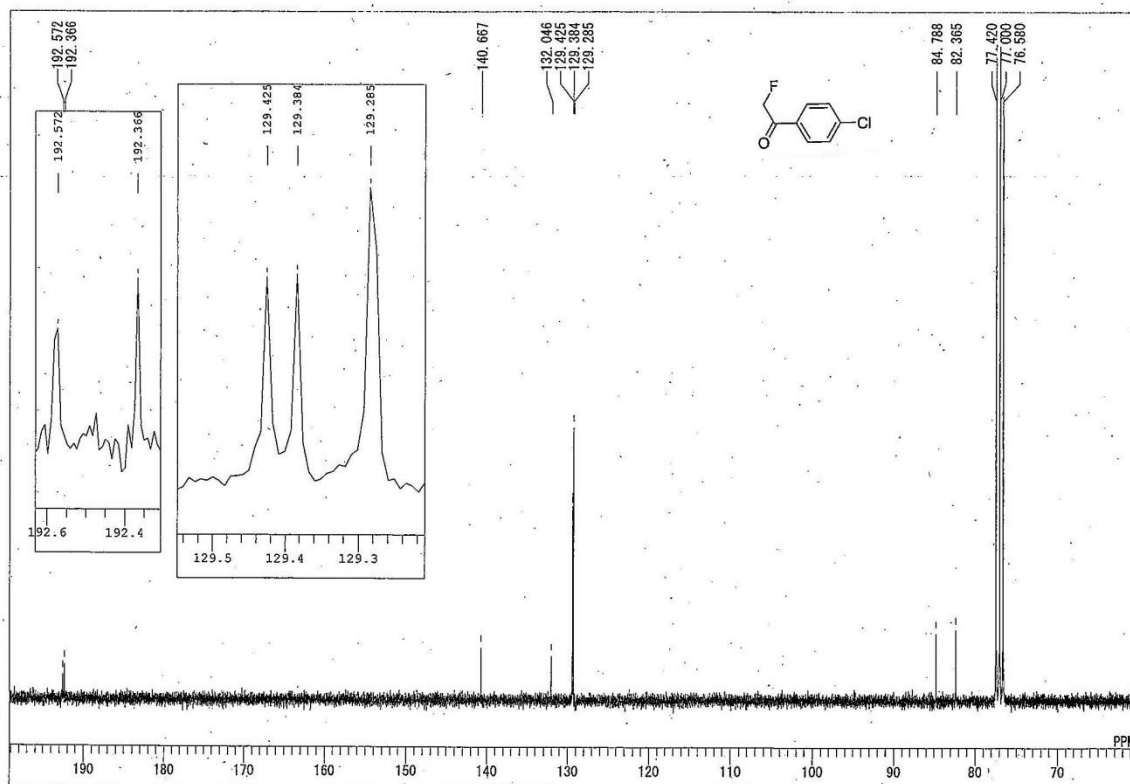
2-Fluoro-1-(4-methylphenyl)ethanone (**2d**)



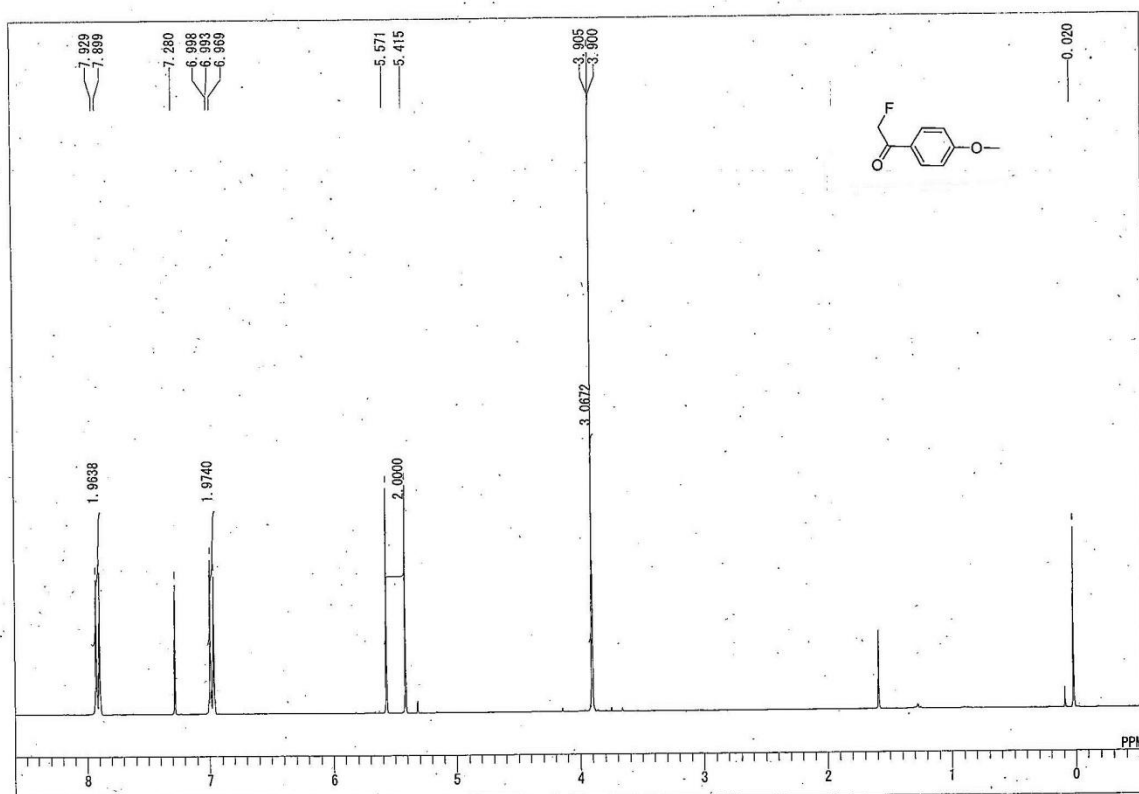


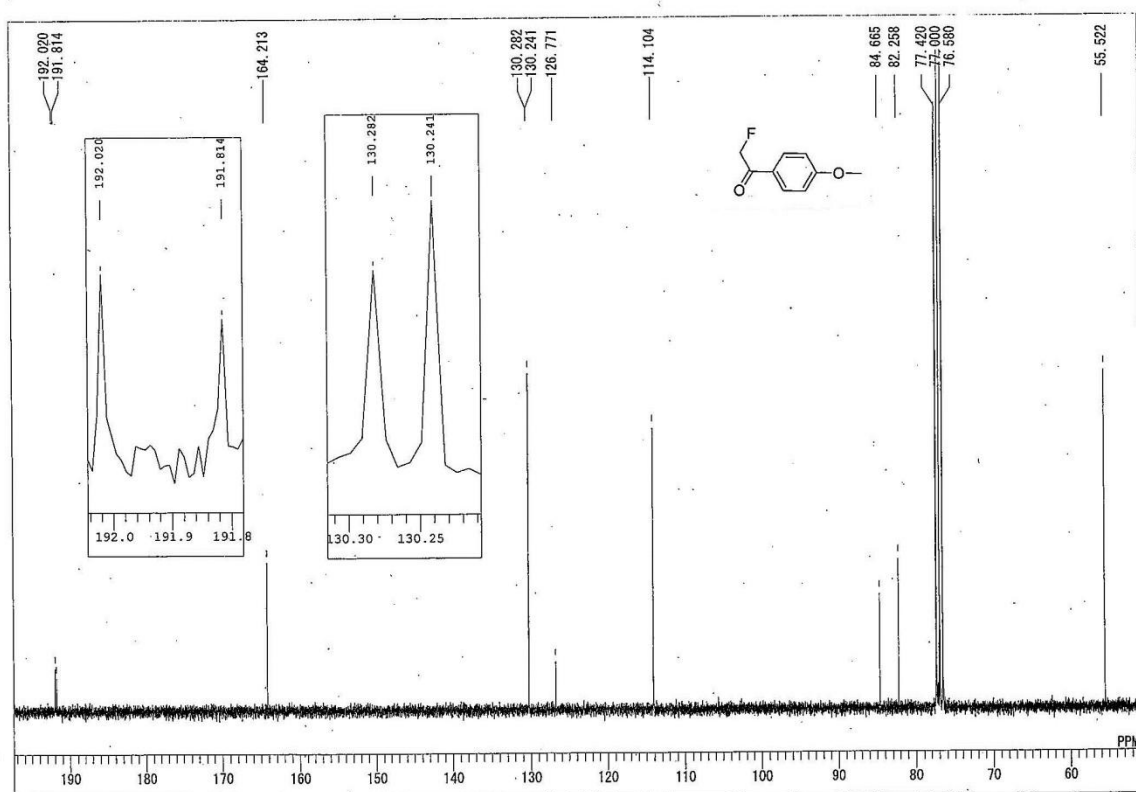
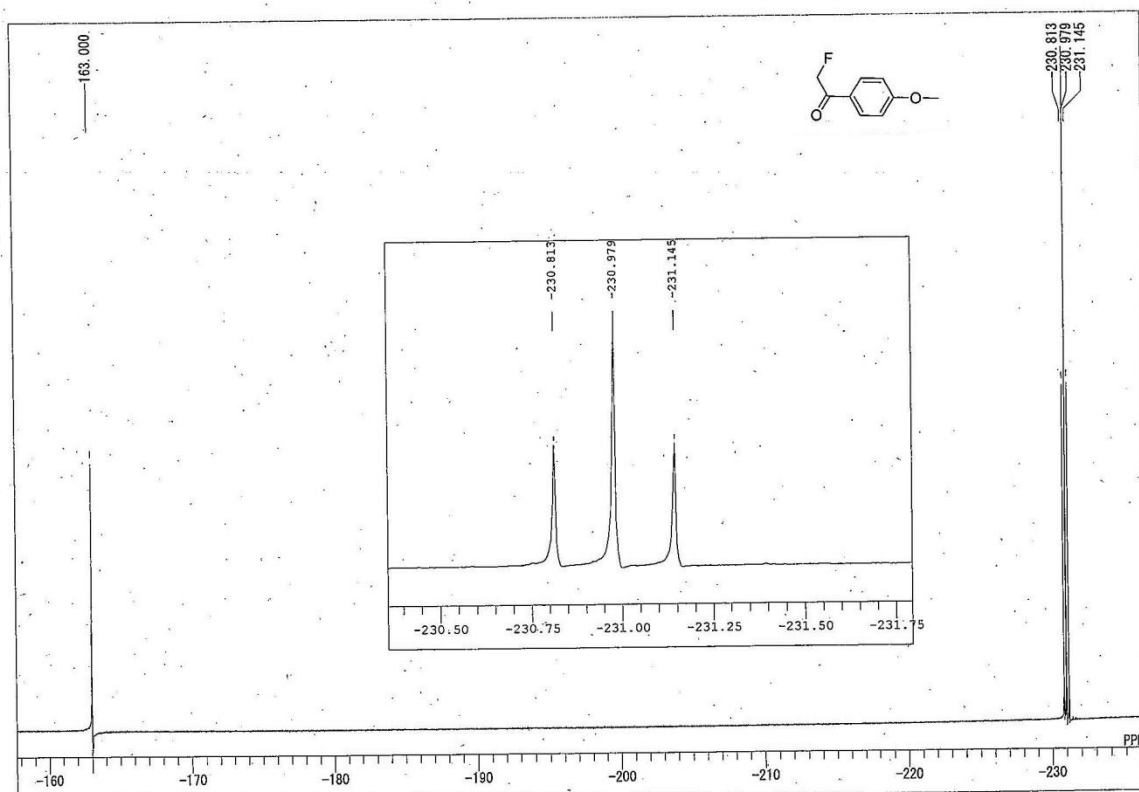
1-(4-Chlorophenyl)-2-fluoroethanone (**2e**)



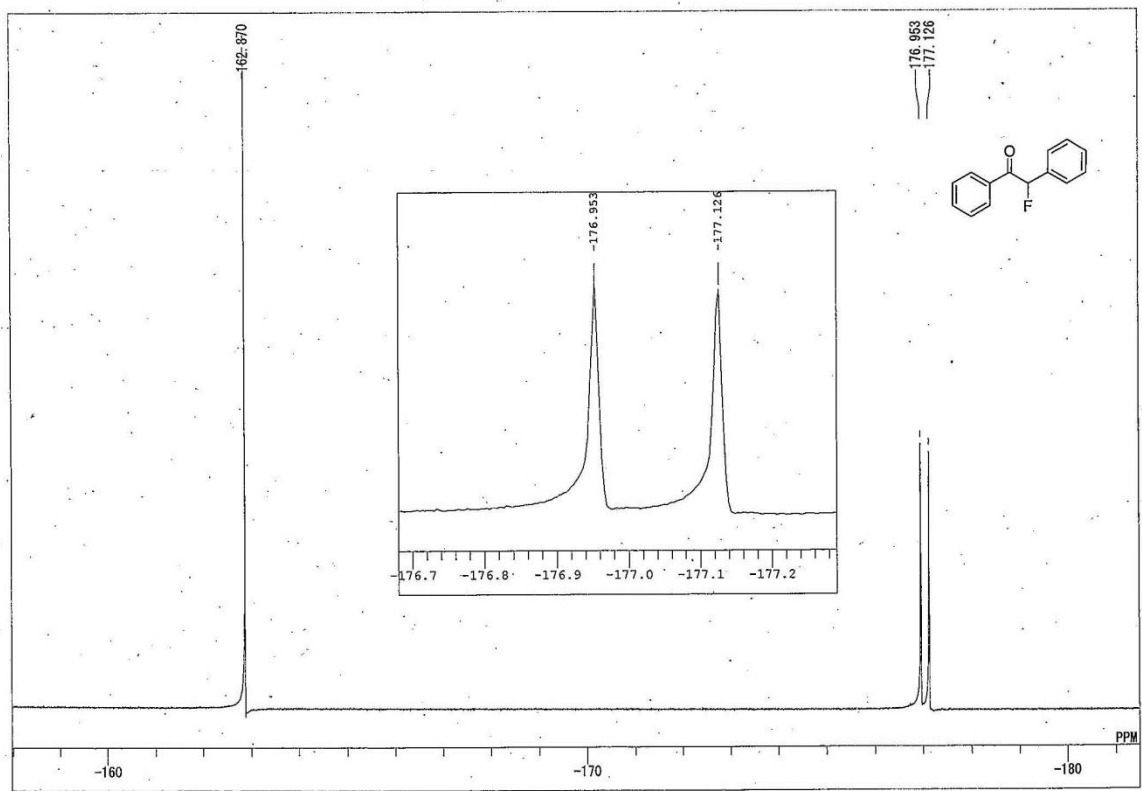
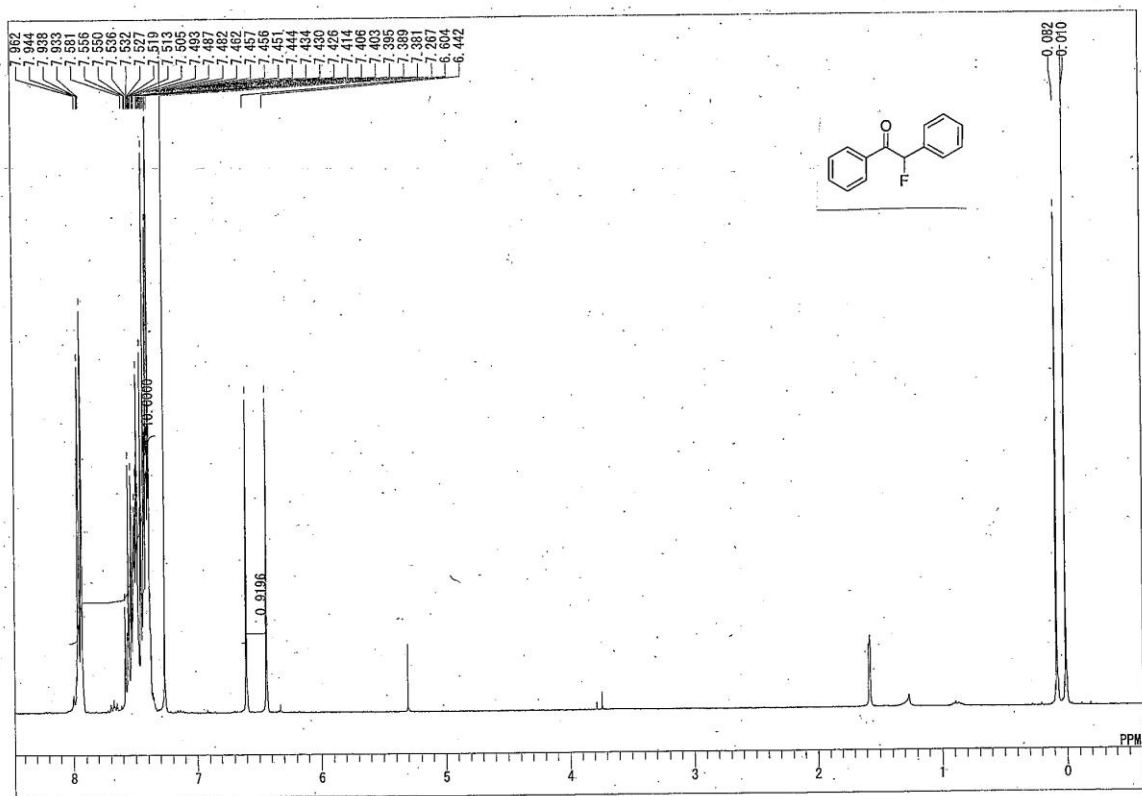


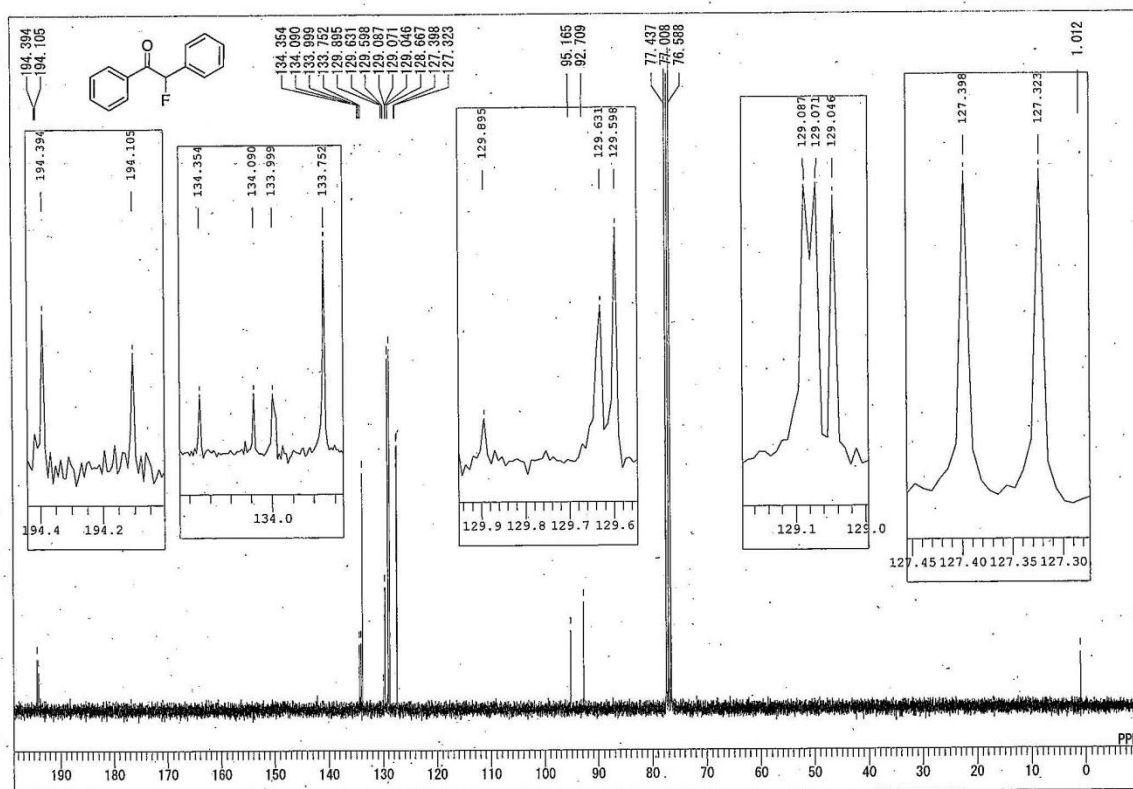
2-Fluoro-1-(4-methoxyphenyl)ethanone (2f)



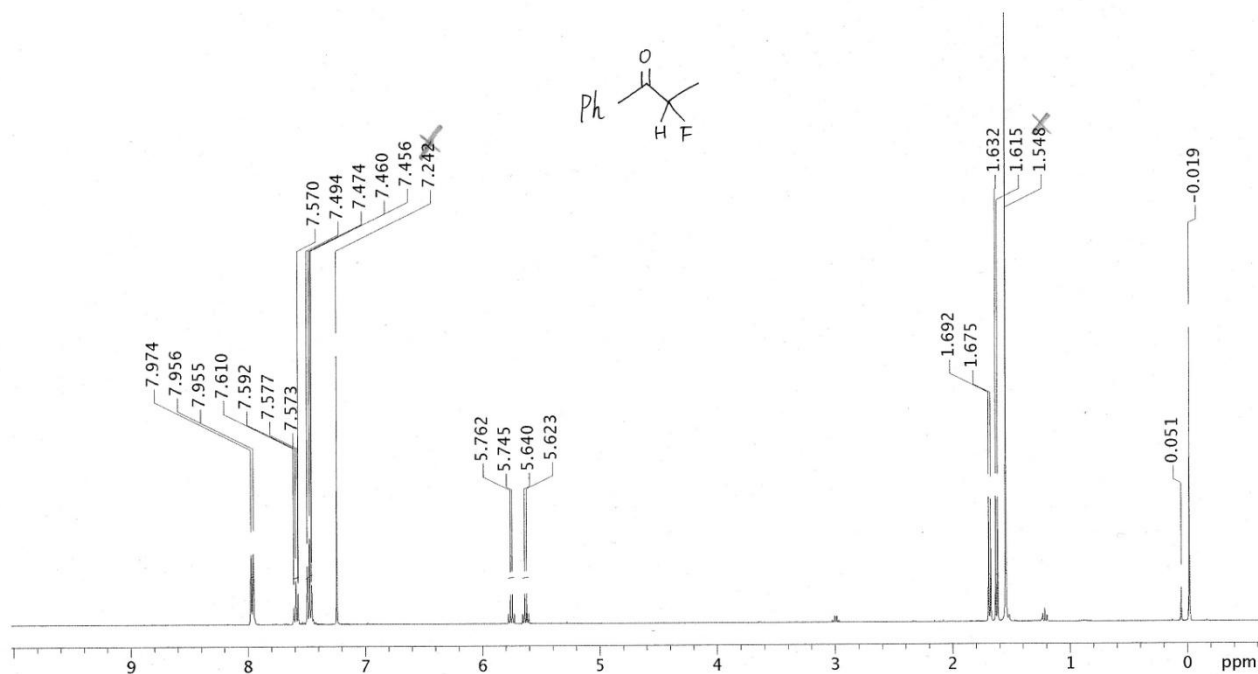


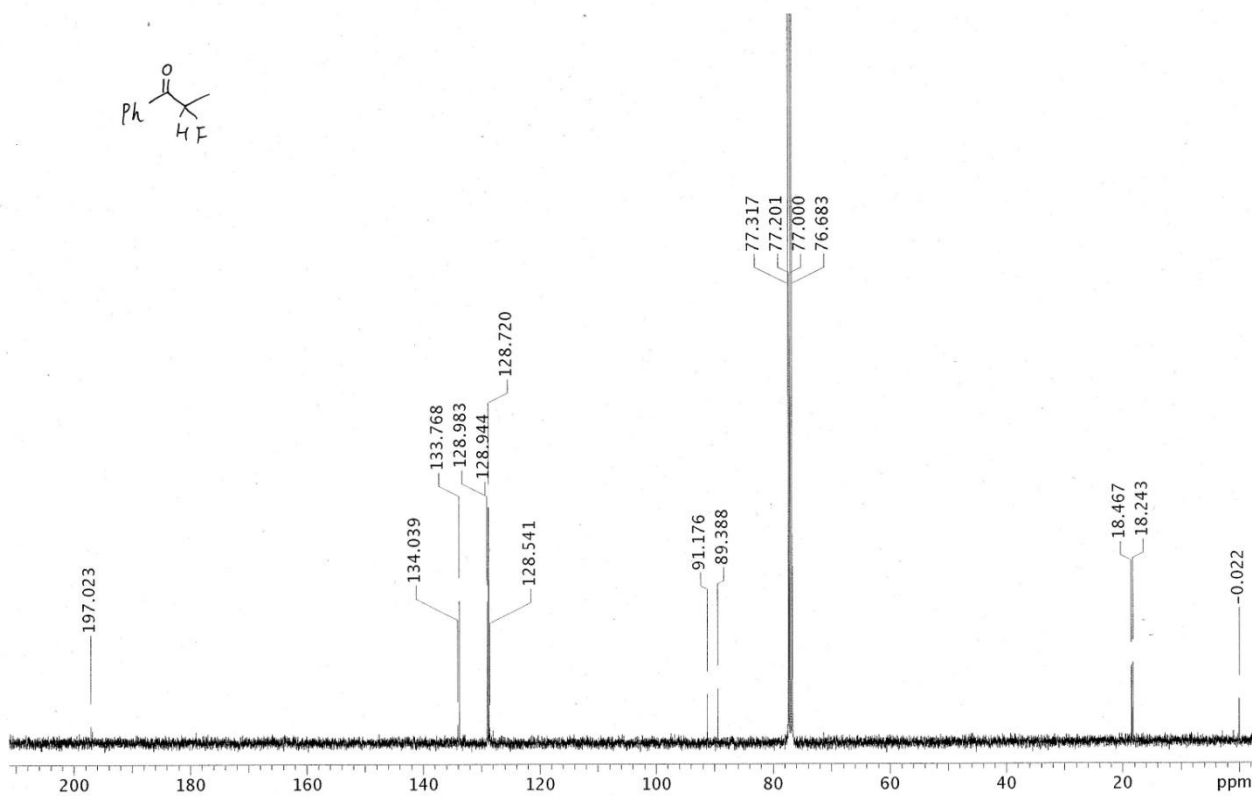
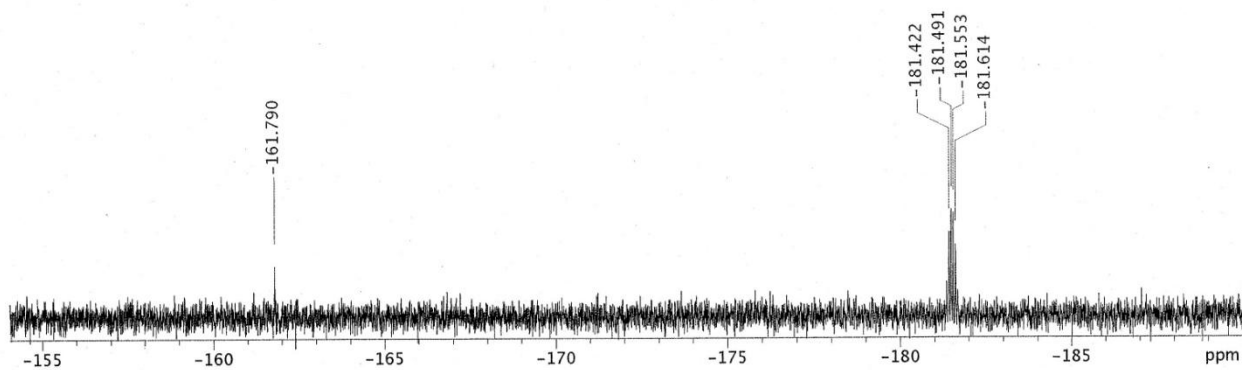
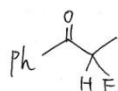
2-Fluoro-1,2-diphenylethanone (2g)



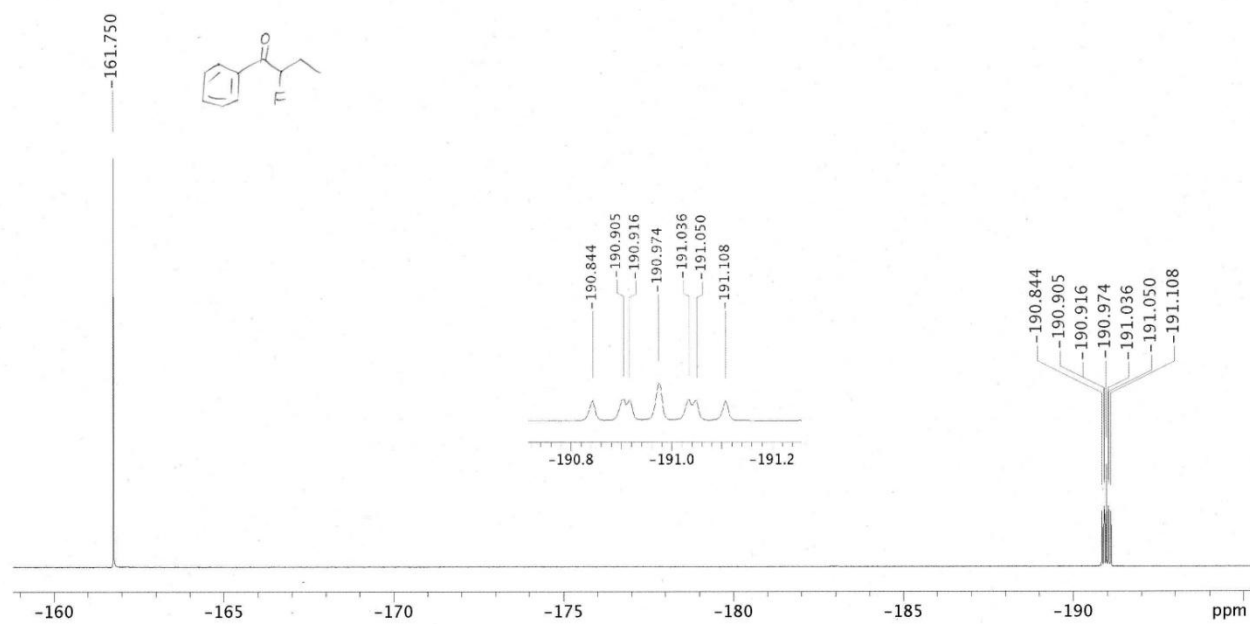
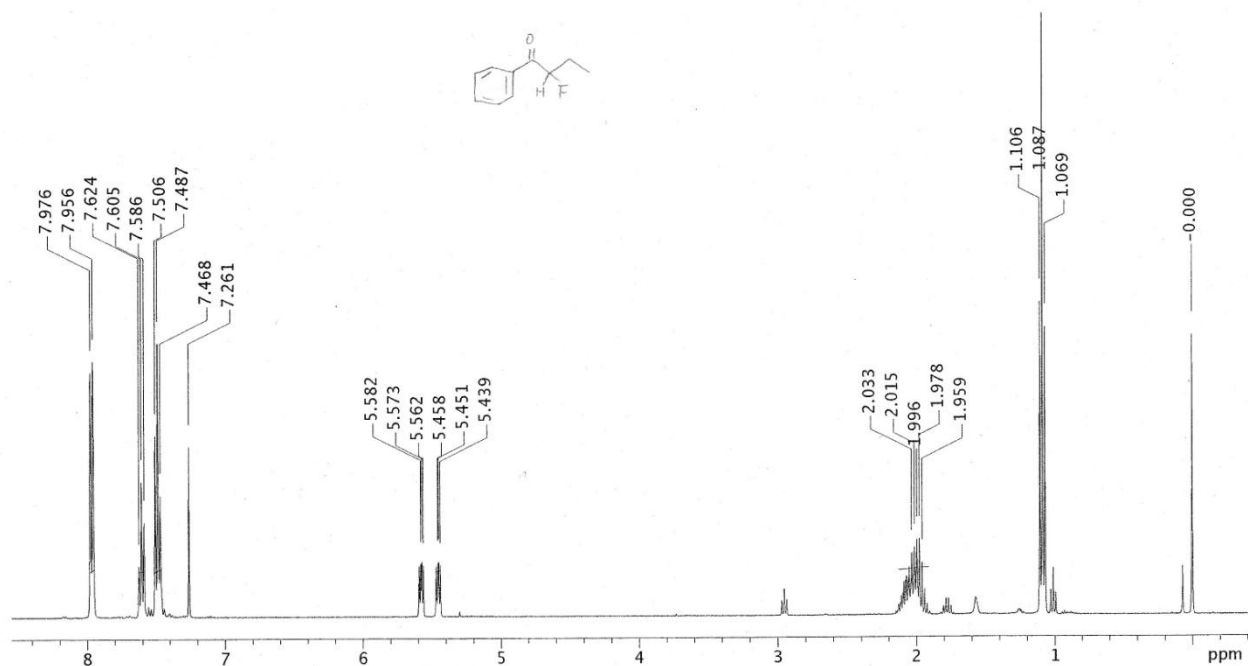


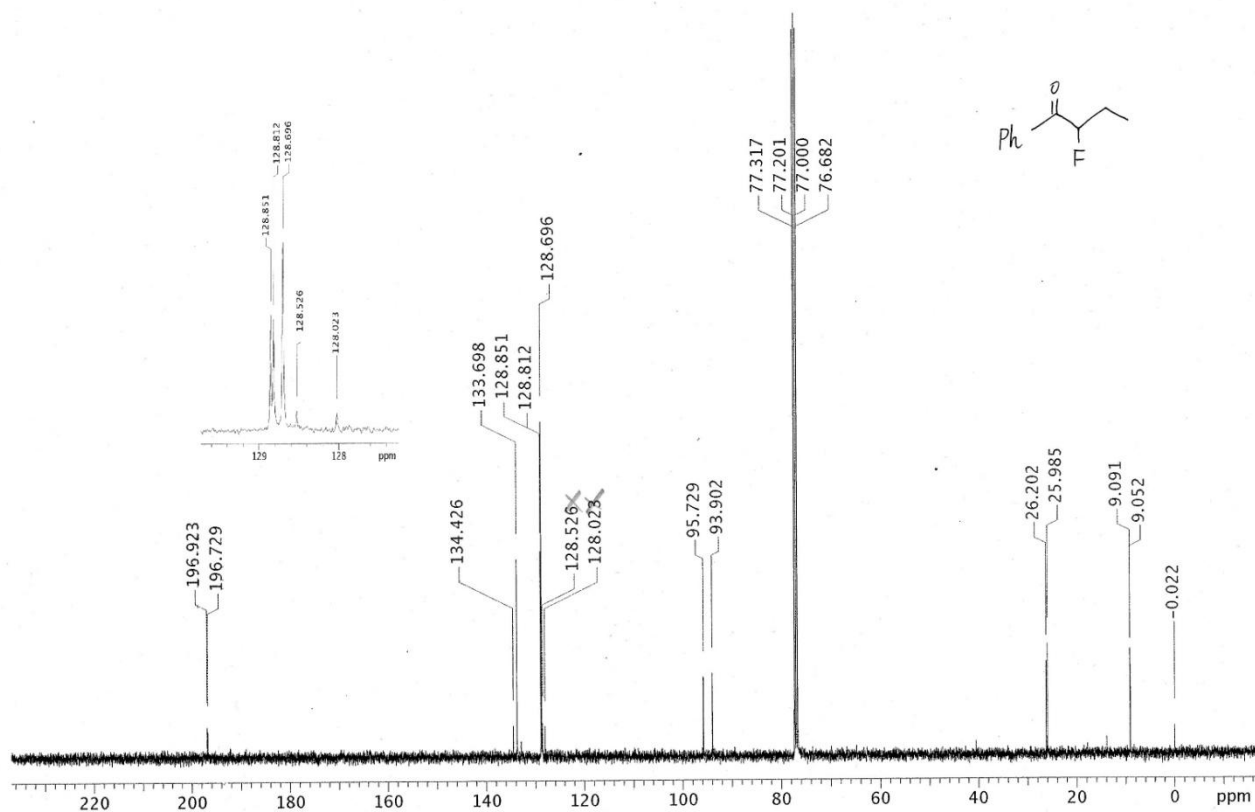
2-Fluoro-1-phenylpropanone (2h)



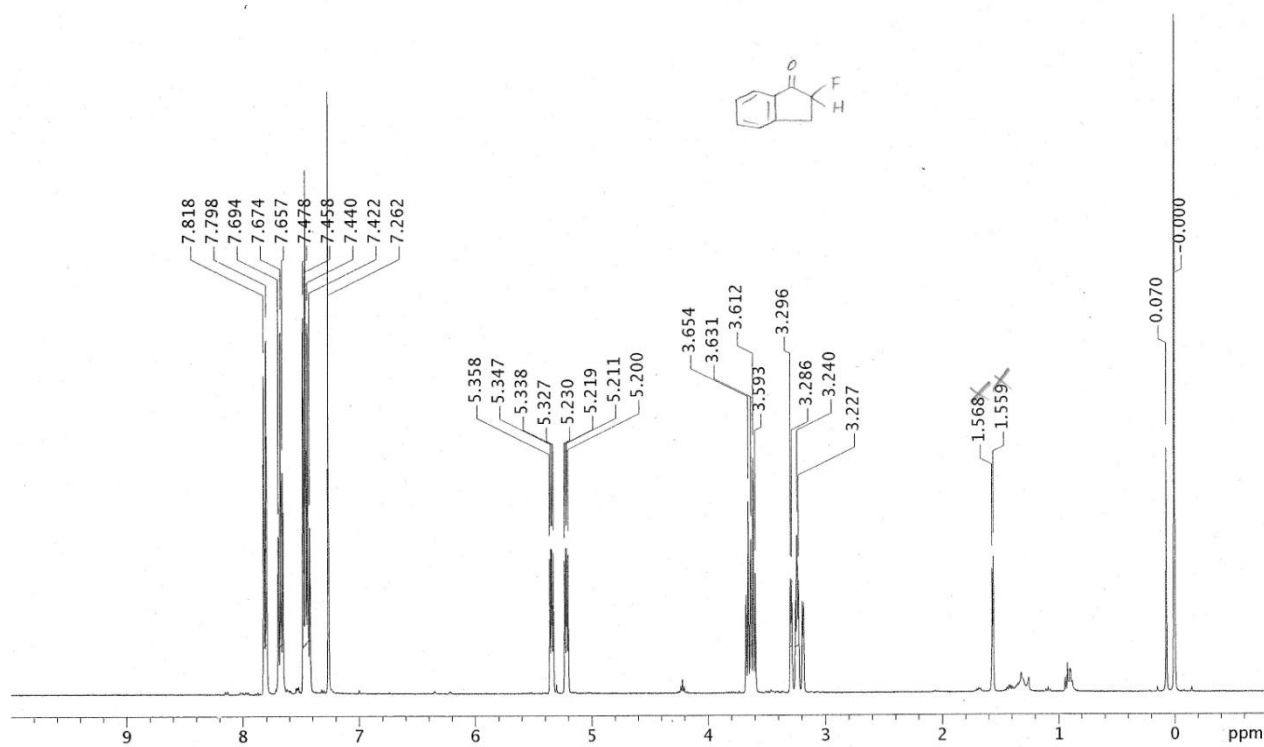


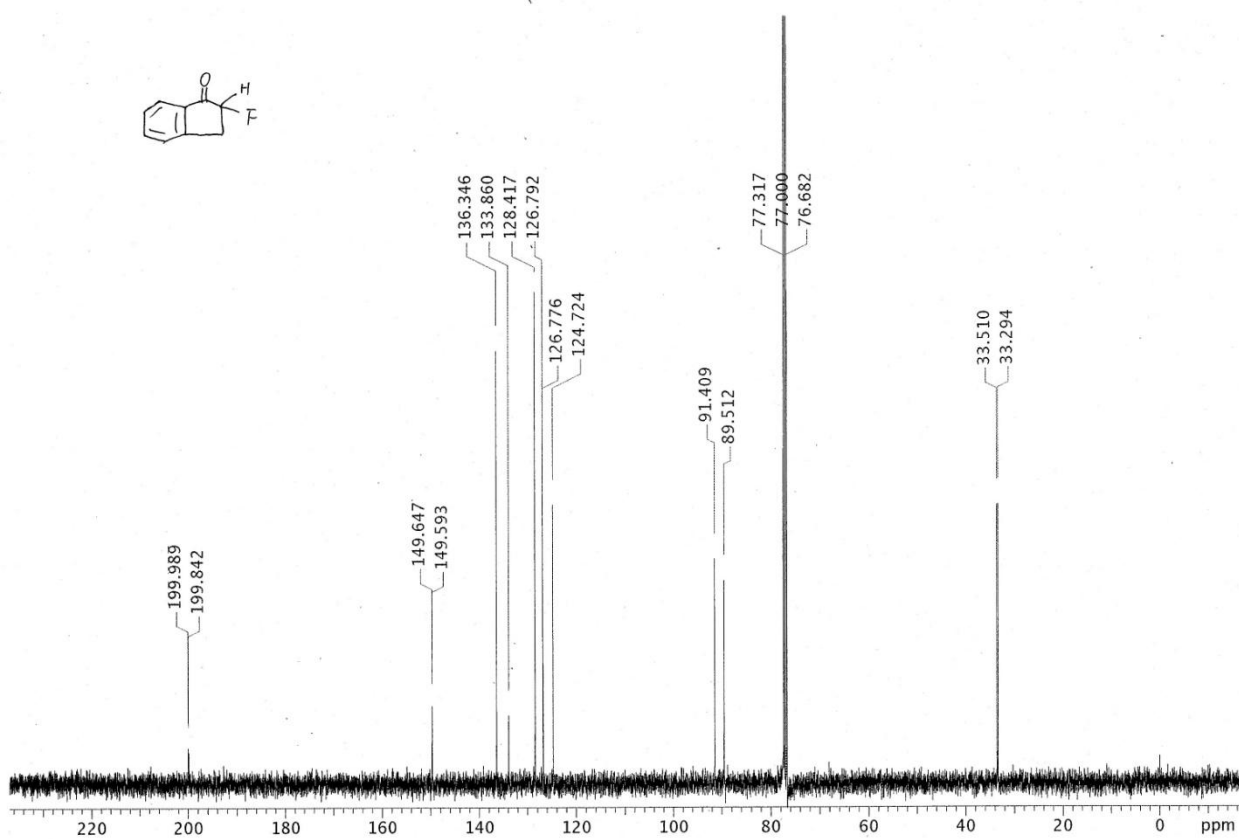
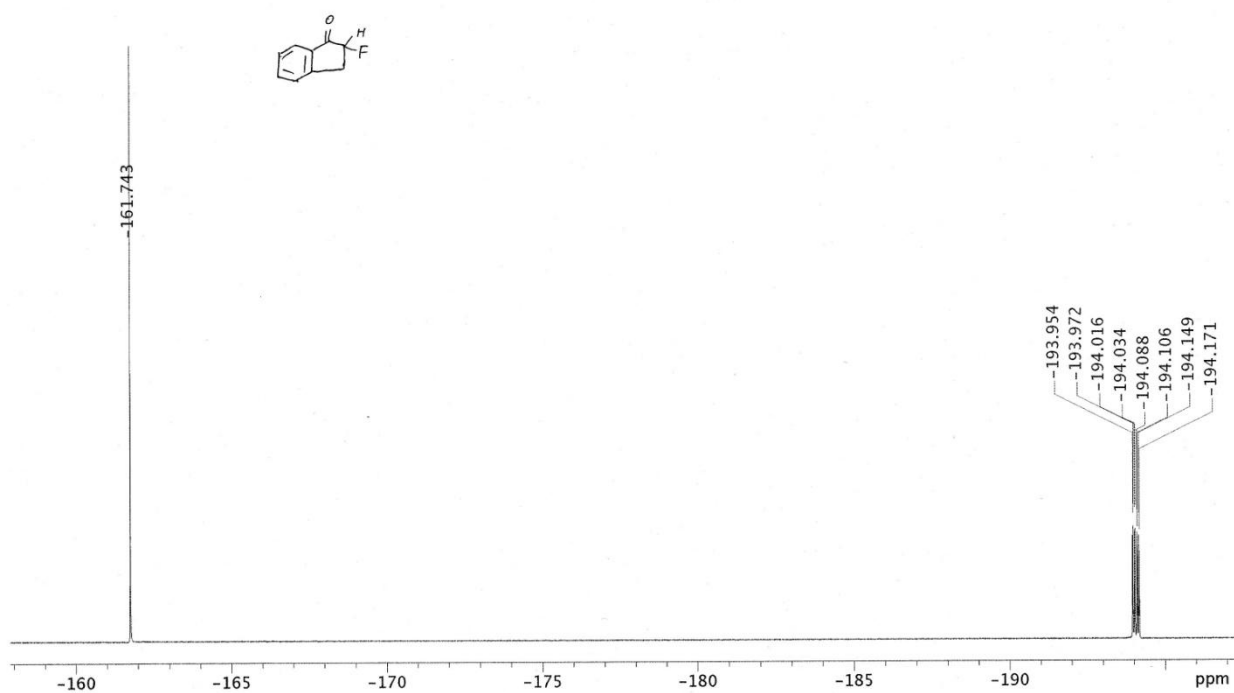
2-Fluoro-1-phenylbutanone (2i)





2-Fluoro-1-indanone (2j)





2-Chloro-2-fluoro-1-phenylethanone (**2k**)

