

# Open saccharin-based secondary sulfonamides as potent and selective inhibitors of cancer-related carbonic anhydrase IX and XII isoforms

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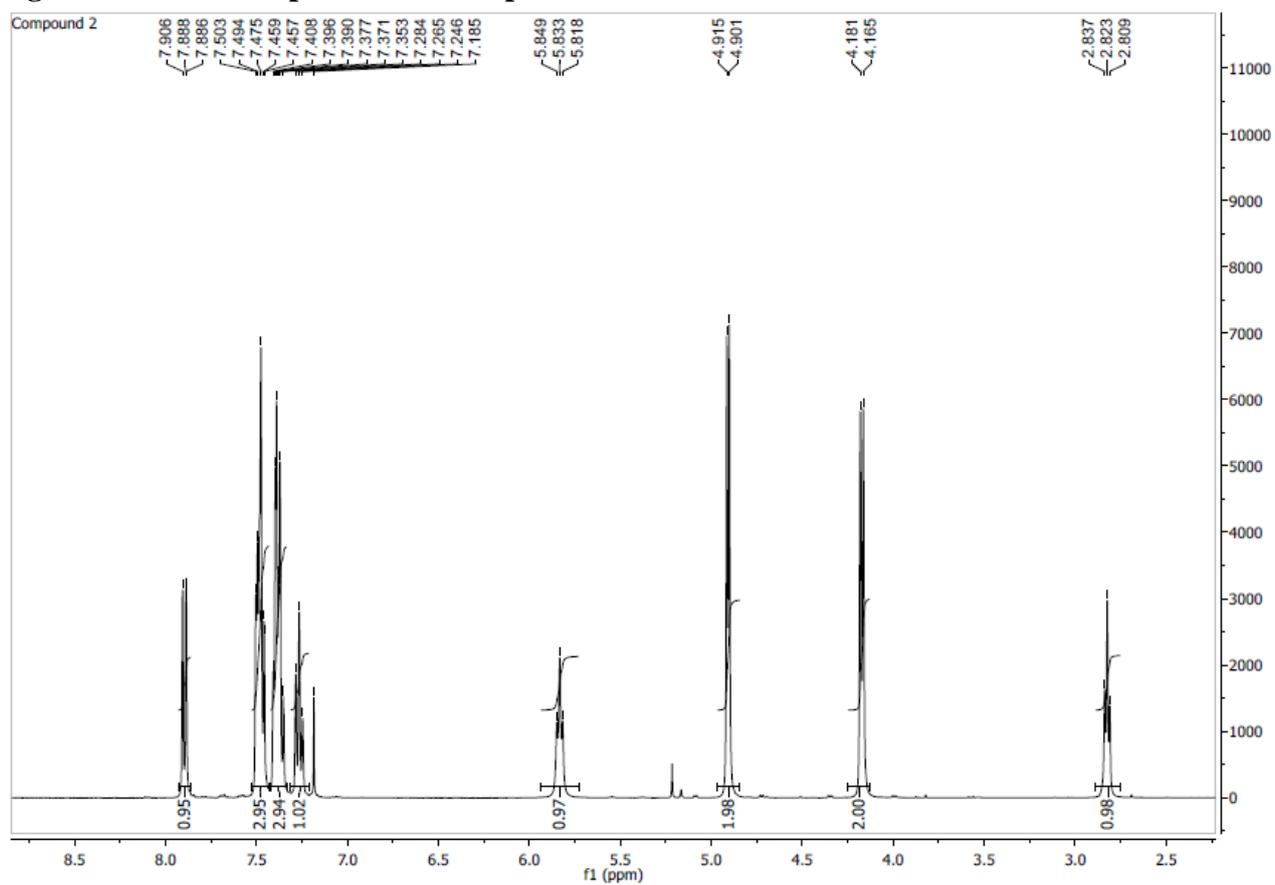
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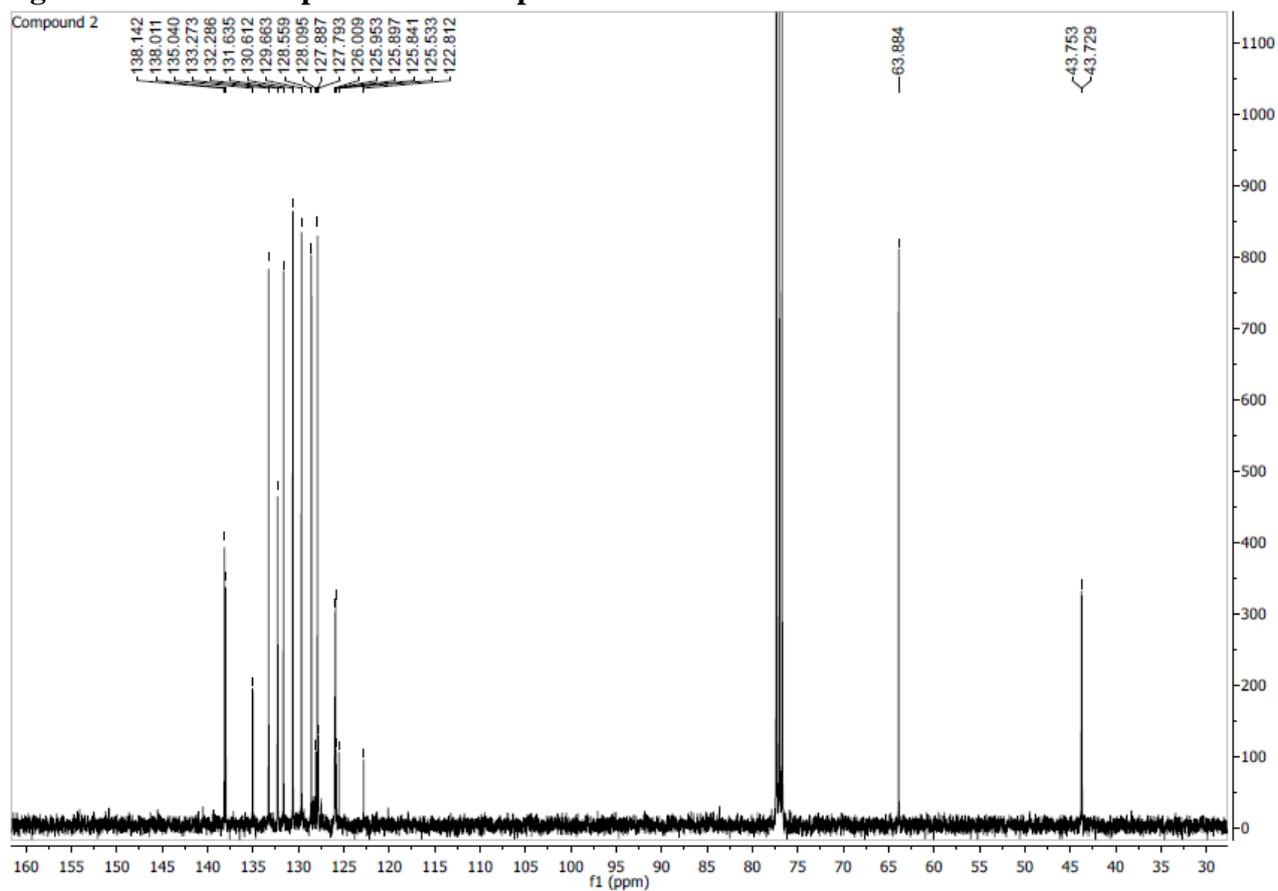
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Figure S1. <sup>1</sup>H NMR spectrum of compound 2.



**Figure S2.**  $^{13}\text{C}$  NMR spectrum of compound 2.



**Figure S3.**  $^{19}\text{F}$  NMR spectrum of compound 2.

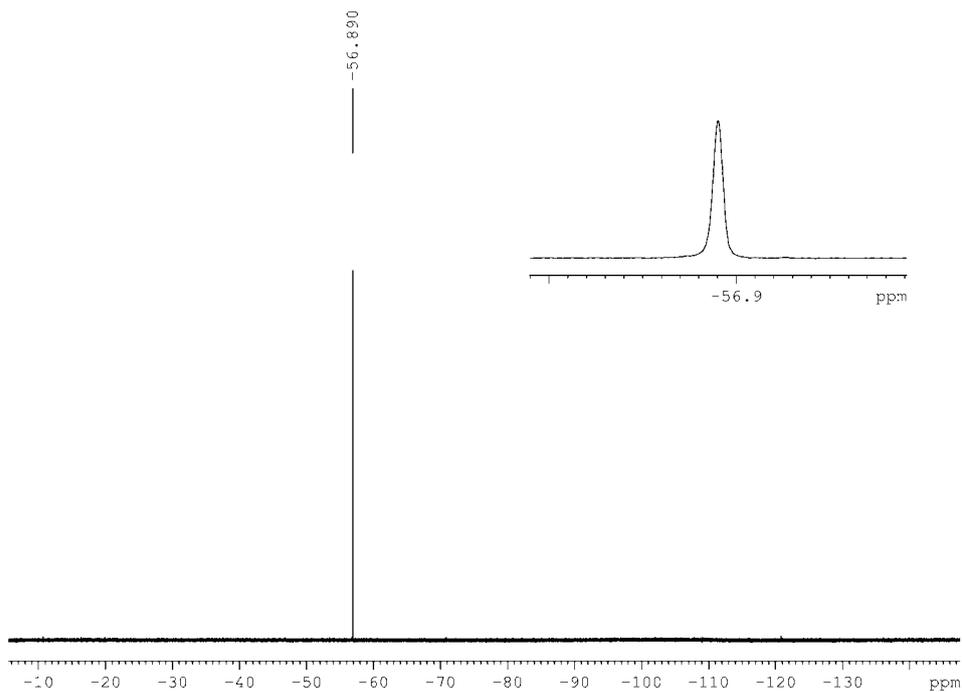


Figure S4.  $^1\text{H}$  NMR spectrum of compound 6.

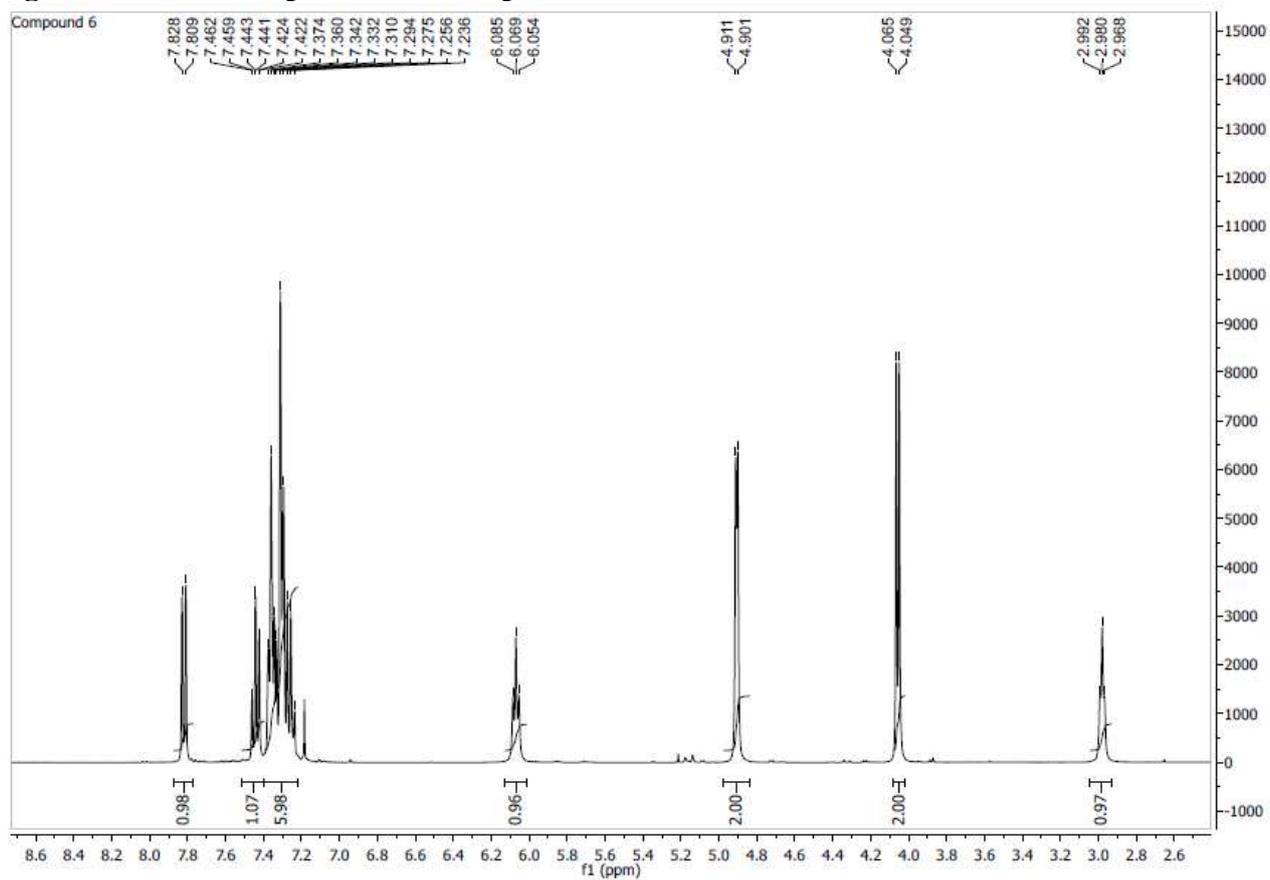


Figure S5.  $^{13}\text{C}$  NMR spectrum of compound 6.

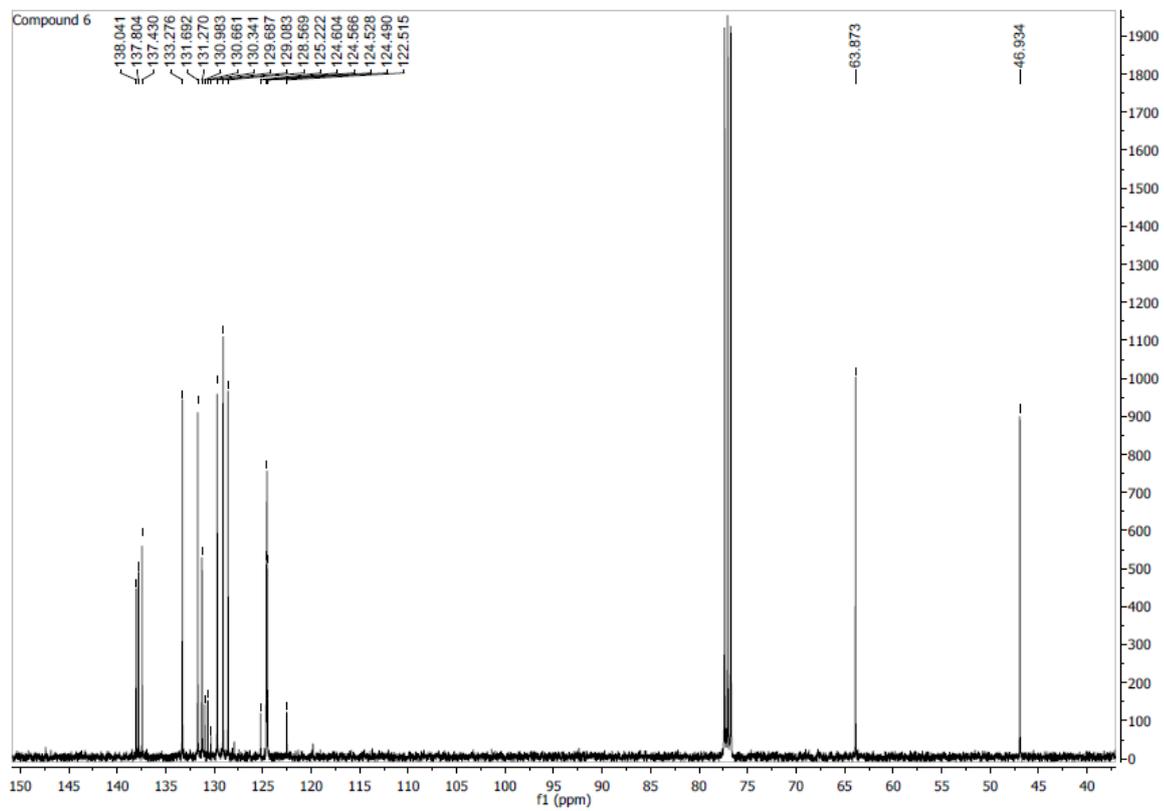


Figure S6.  $^{19}\text{F}$  NMR spectrum of compound 6.

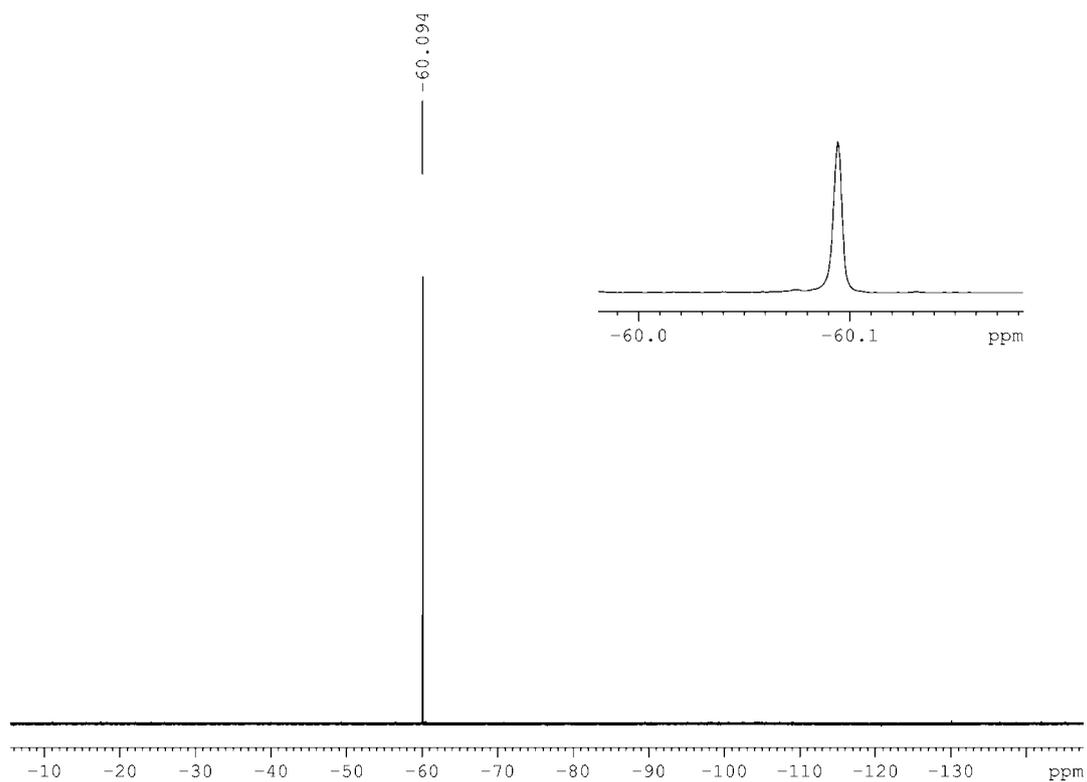


Figure S7.  $^{19}\text{F}$  NMR spectrum of compound 8.

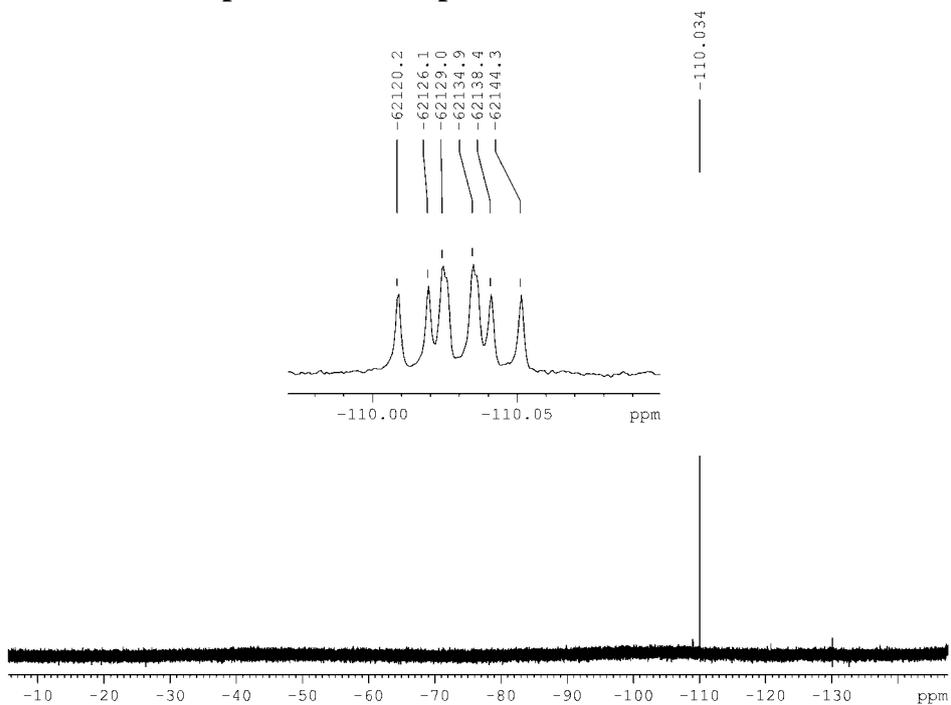


Figure S8.  $^1\text{H}$  NMR spectrum of compound 11.

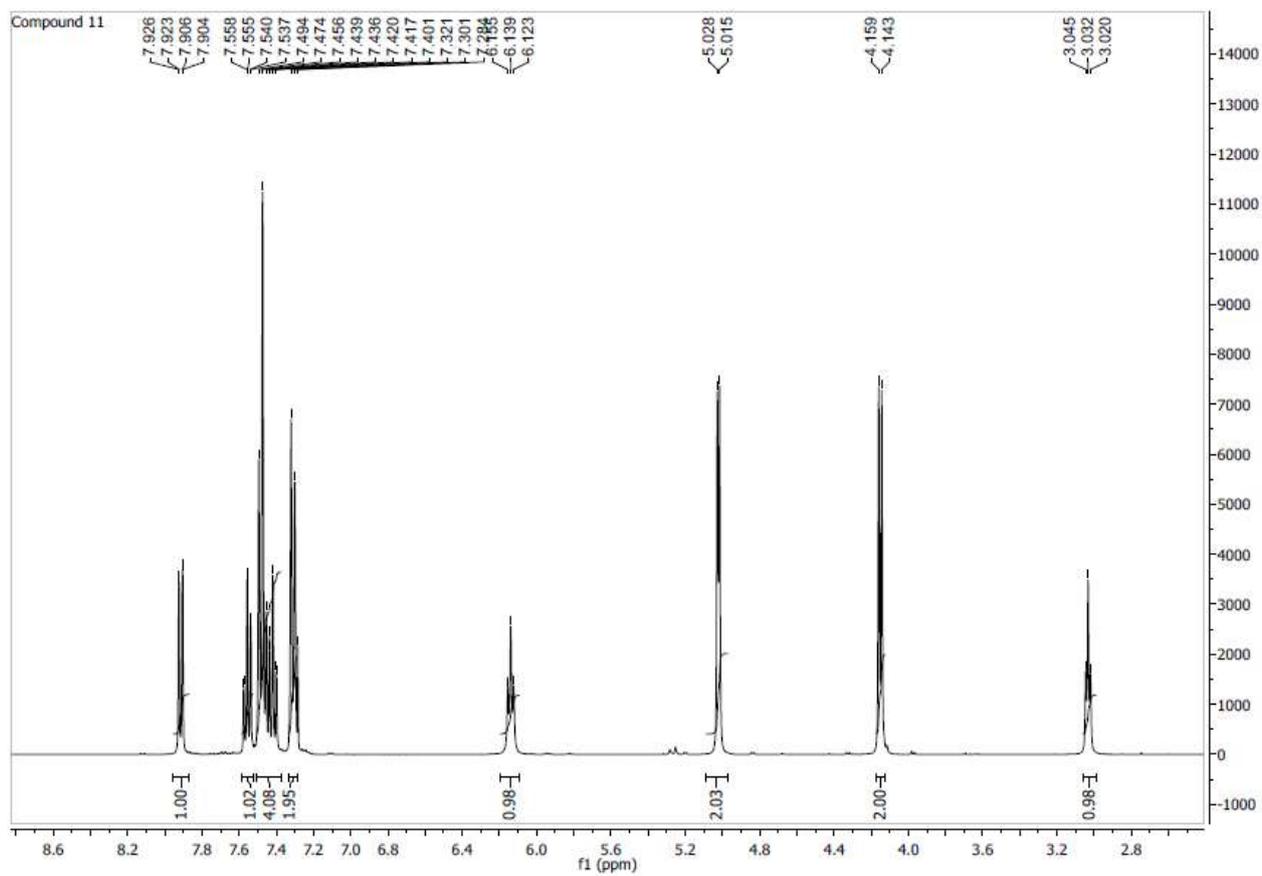


Figure S9.  $^{13}\text{C}$  NMR spectrum of compound 11.

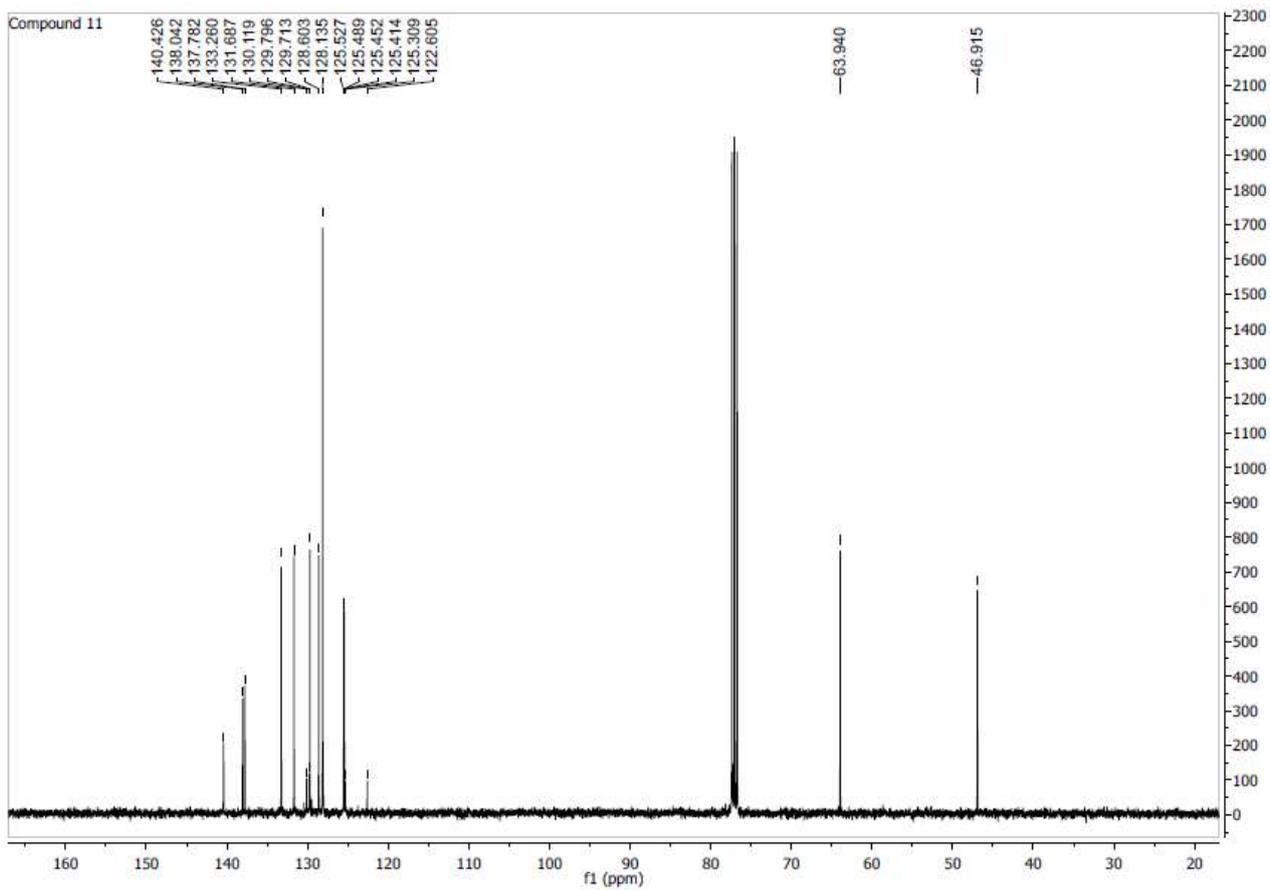


Figure S10.  $^{19}\text{F}$  NMR spectrum of compound 11.

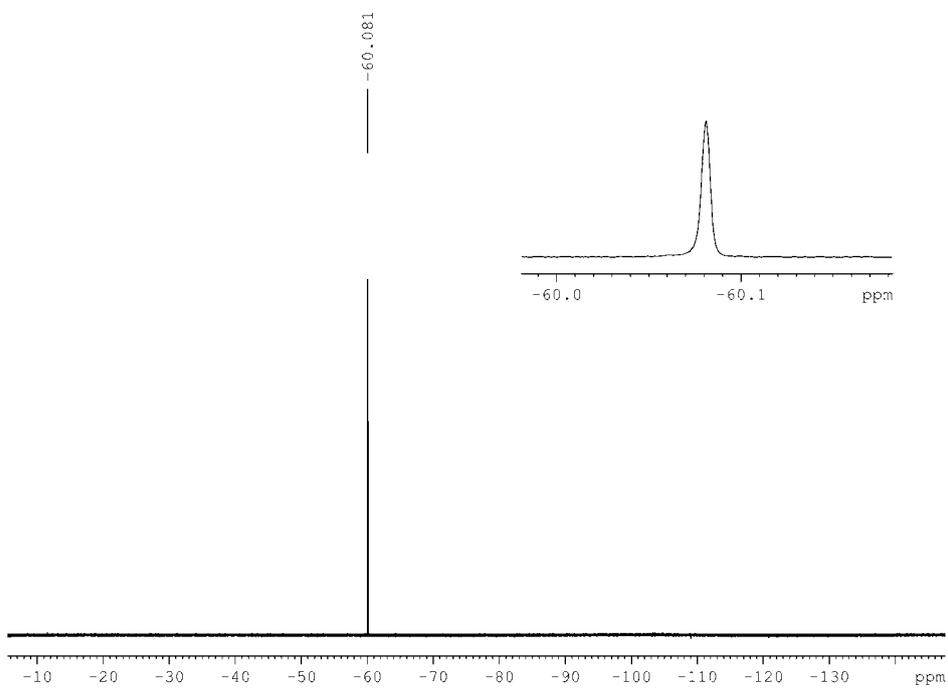
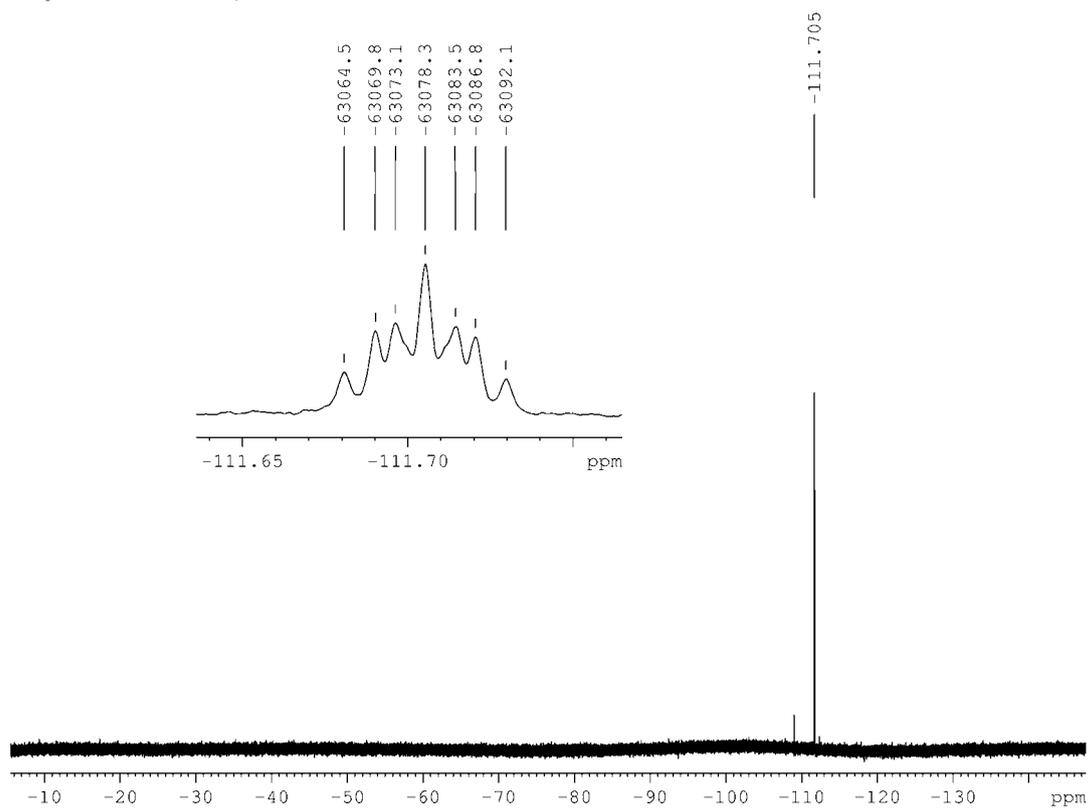
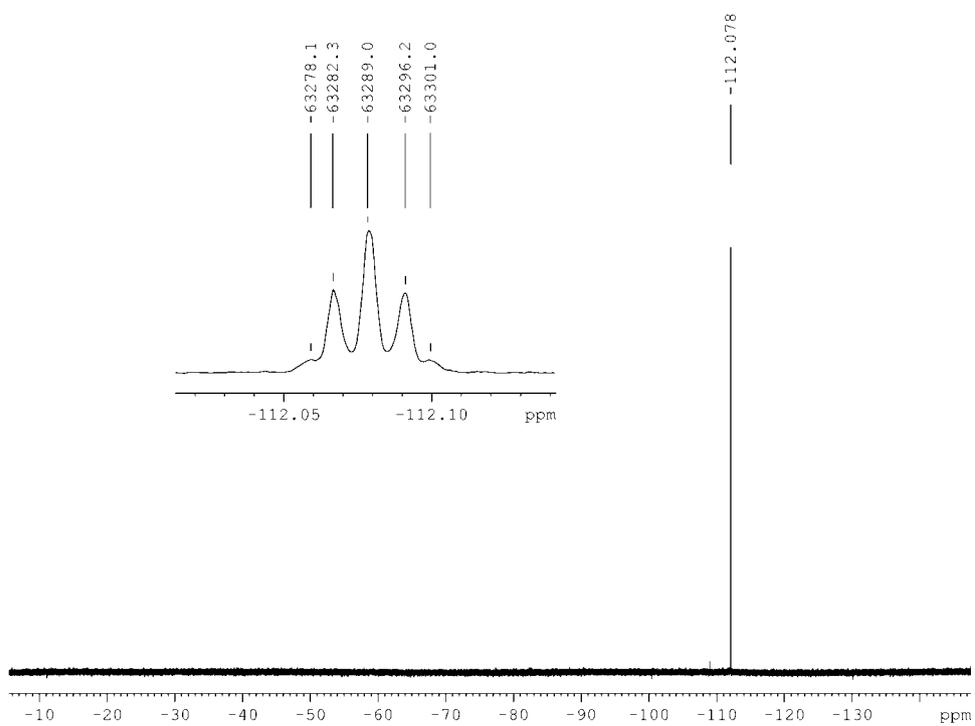


Figure S11.  $^{19}\text{F}$  NMR spectrum of compound 14.



**Figure S12.**  $^{19}\text{F}$  NMR spectrum of compound 17.



**Figure S13.**  $^1\text{H}$  NMR spectrum of compound 18.

Compound 18

