

Supporting Information to

9,10-Dioxa-1,2-diaza-anthracene derivatives from tetrafluoropyridazine

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NMR spectra of all synthesized compounds **7**, **8**, **5** and **9a–9c**

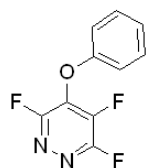
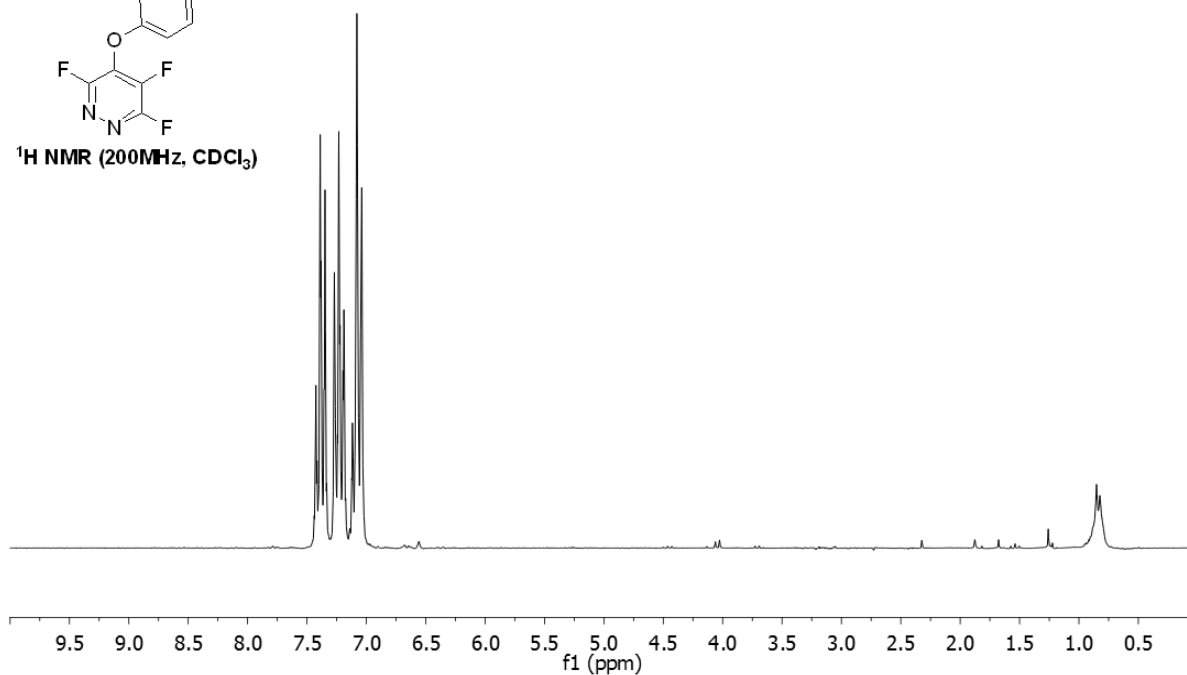
¹H NMR and ¹³C NMR spectra for 3,4,6-trifluoro-5-phenoxyridazine (**7**);

¹H NMR, ¹³C NMR and ¹⁹F NMR spectra for 3,6-difluoro-4,5-diphenoxypyridazine (**8**), 3,4-difluoro-9,10-dioxa-1,2-diaza-anthracene (**5**), 3-fluoro-4-(morpholin-4-yl)-9,10-dioxa-1,2-diaza-anthracene (**9a**), 4-allylamino-3-fluoro-9,10-dioxa-1,2-diaza-anthracene (**9b**), 4-ethoxy-3-fluoro-9,10-dioxa-1,2-diaza-anthracene (**9c**).

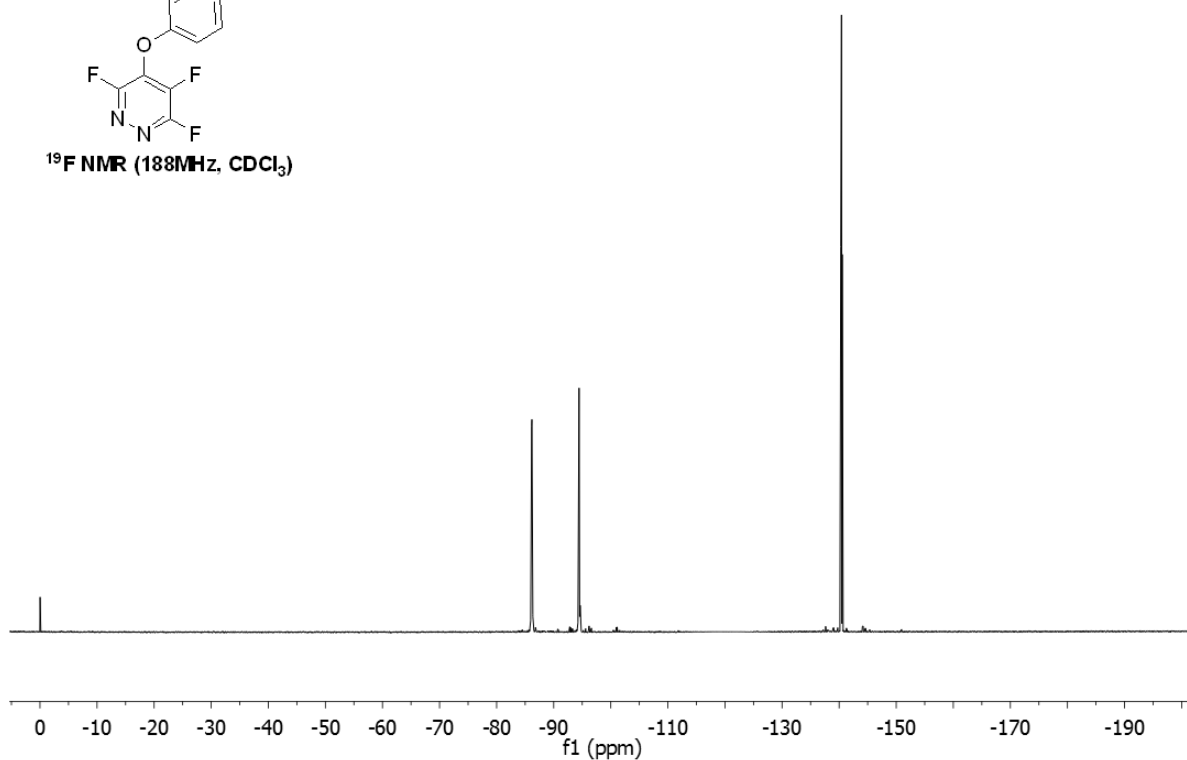
3,4,6-Trifluoro-5-phenoxy pyridazine (7)



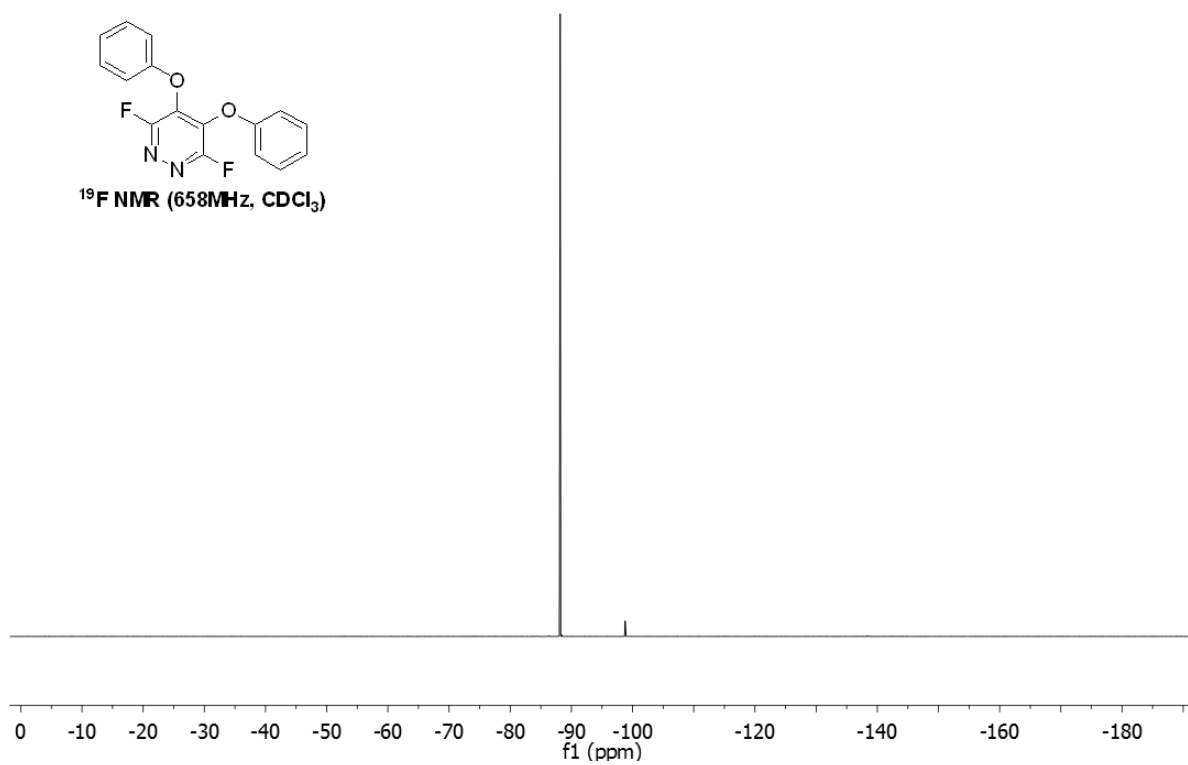
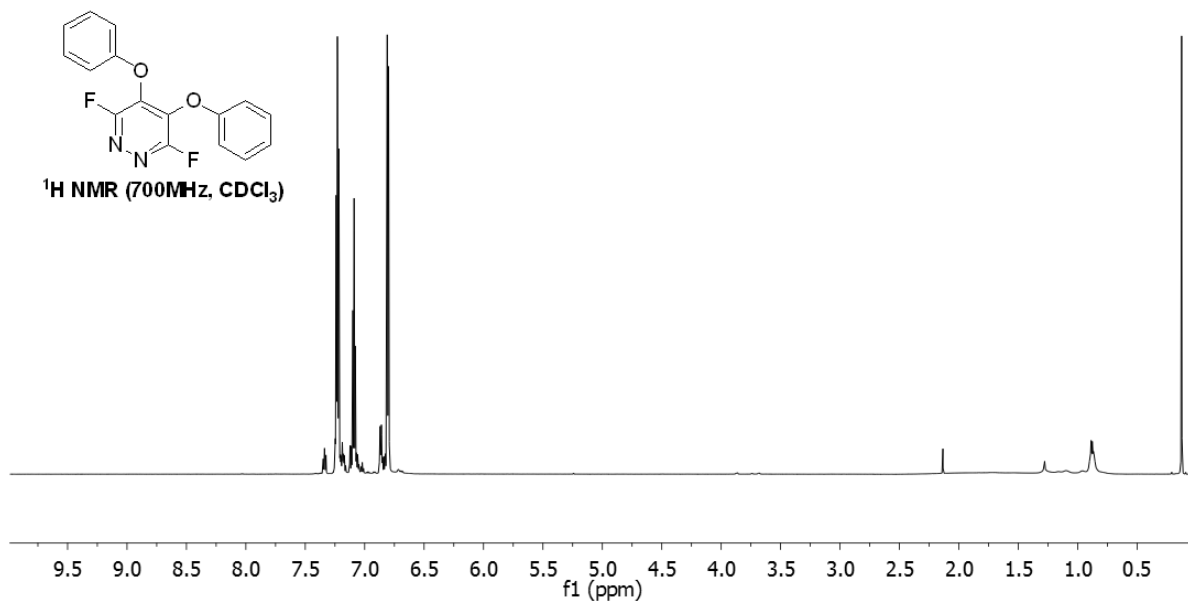
¹H NMR (200MHz, CDCl₃)

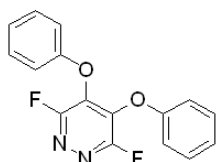


¹⁹F NMR (188MHz, CDCl₃)

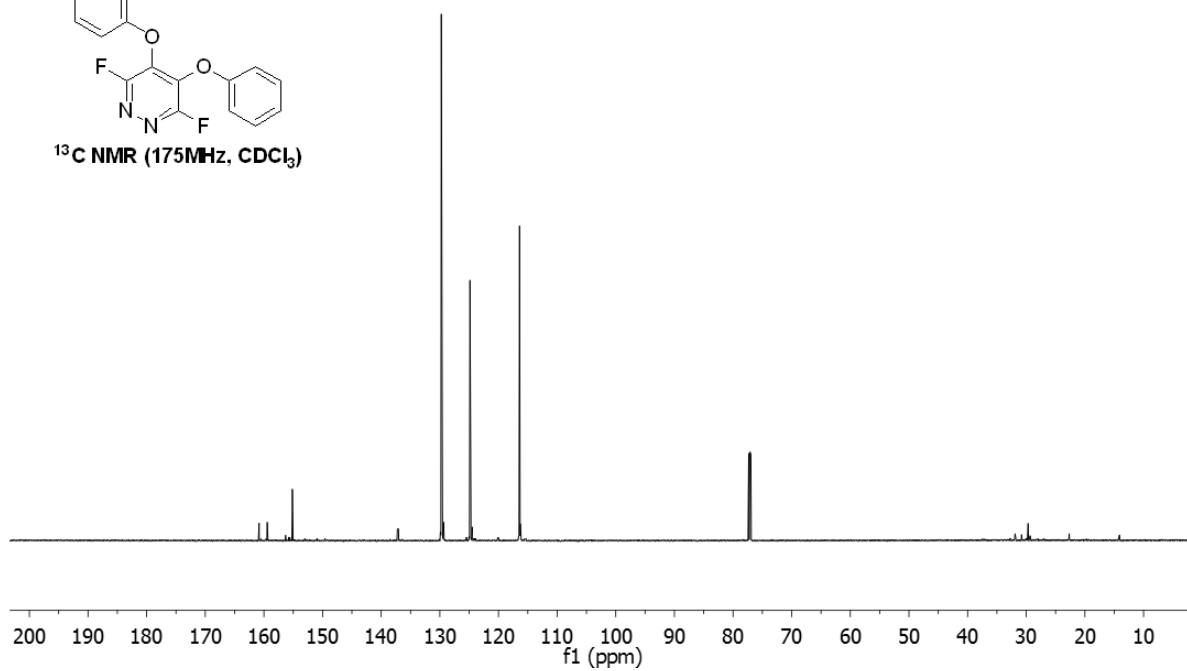


3,6-Difluoro-4,5-diphenoxypyridazine (8)

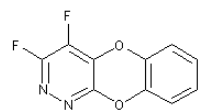




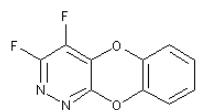
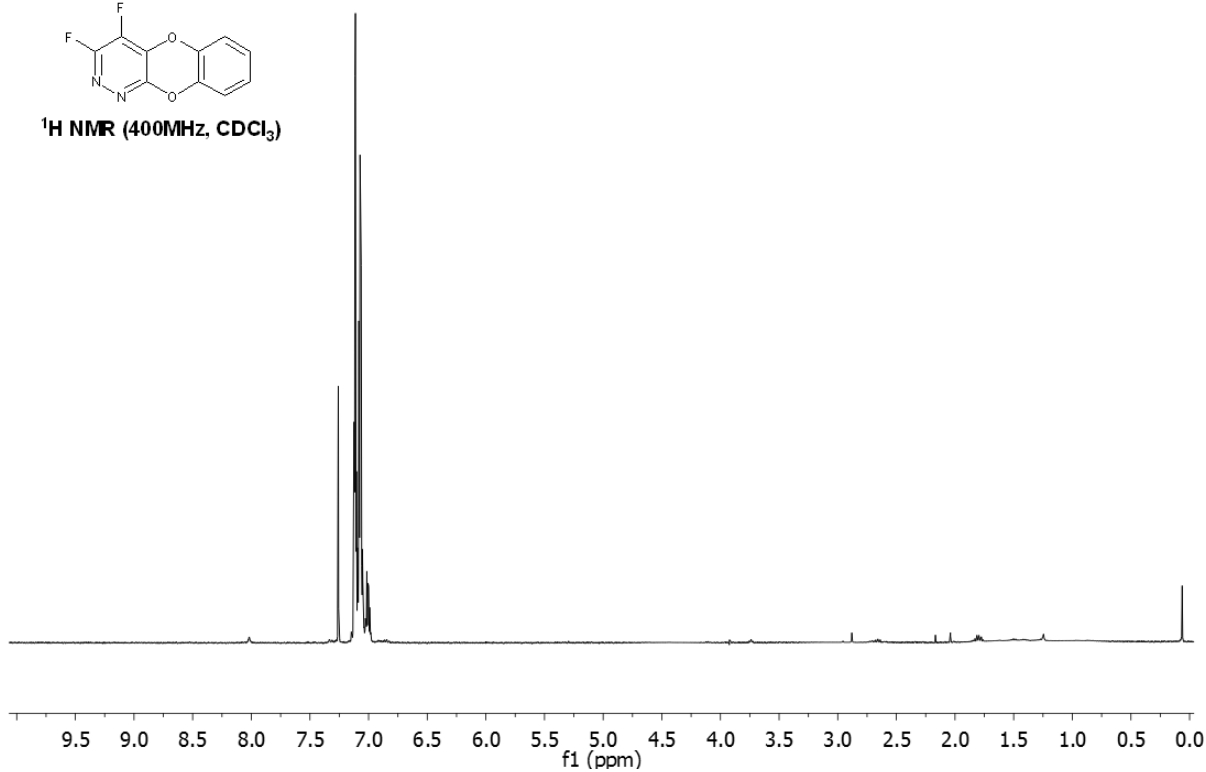
¹³C NMR (175MHz, CDCl₃)



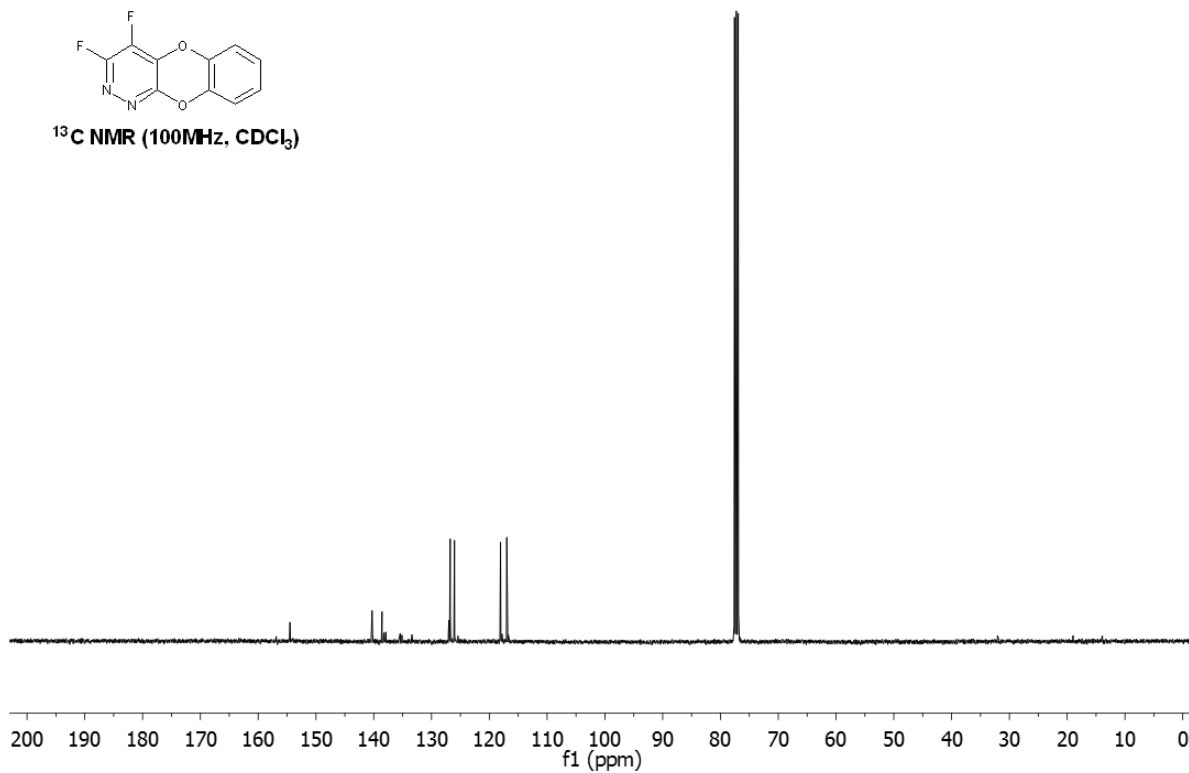
3,4-Difluoro-9,10-dioxa-1,2-diaza-anthracene (5)

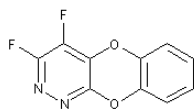


¹H NMR (400MHz, CDCl₃)

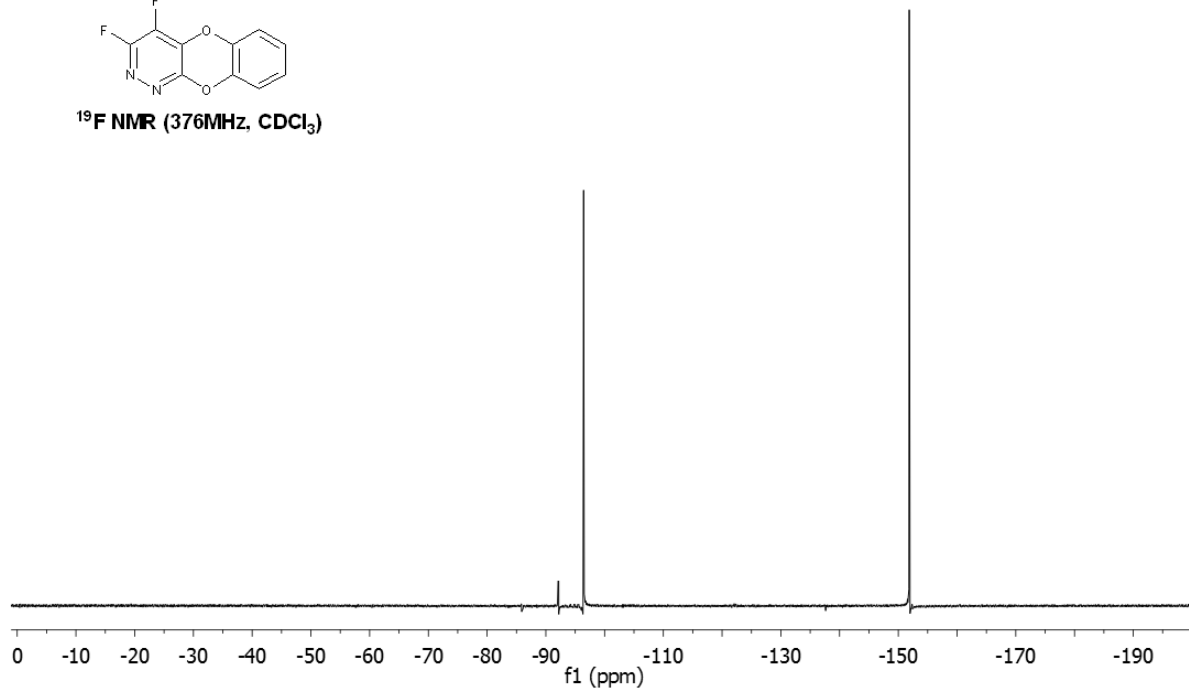


¹³C NMR (100MHz, CDCl₃)

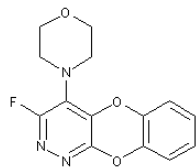




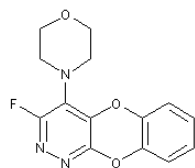
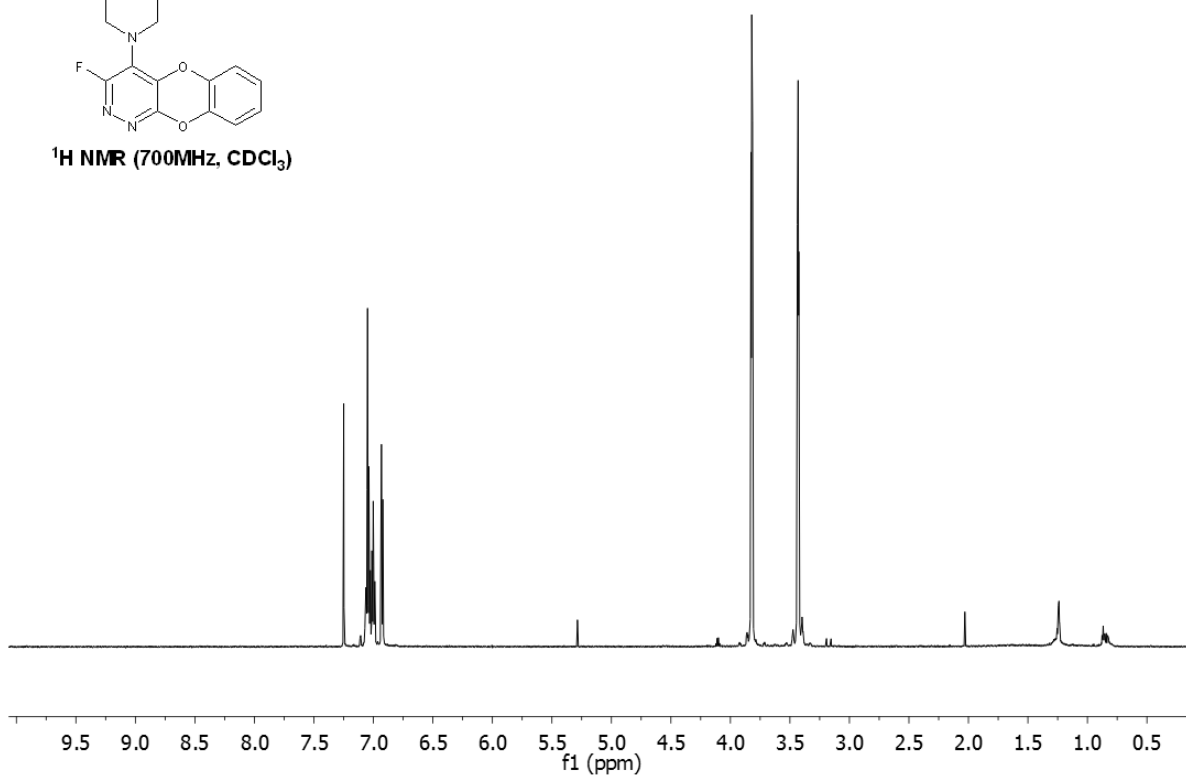
¹⁹F NMR (376MHz, CDCl₃)



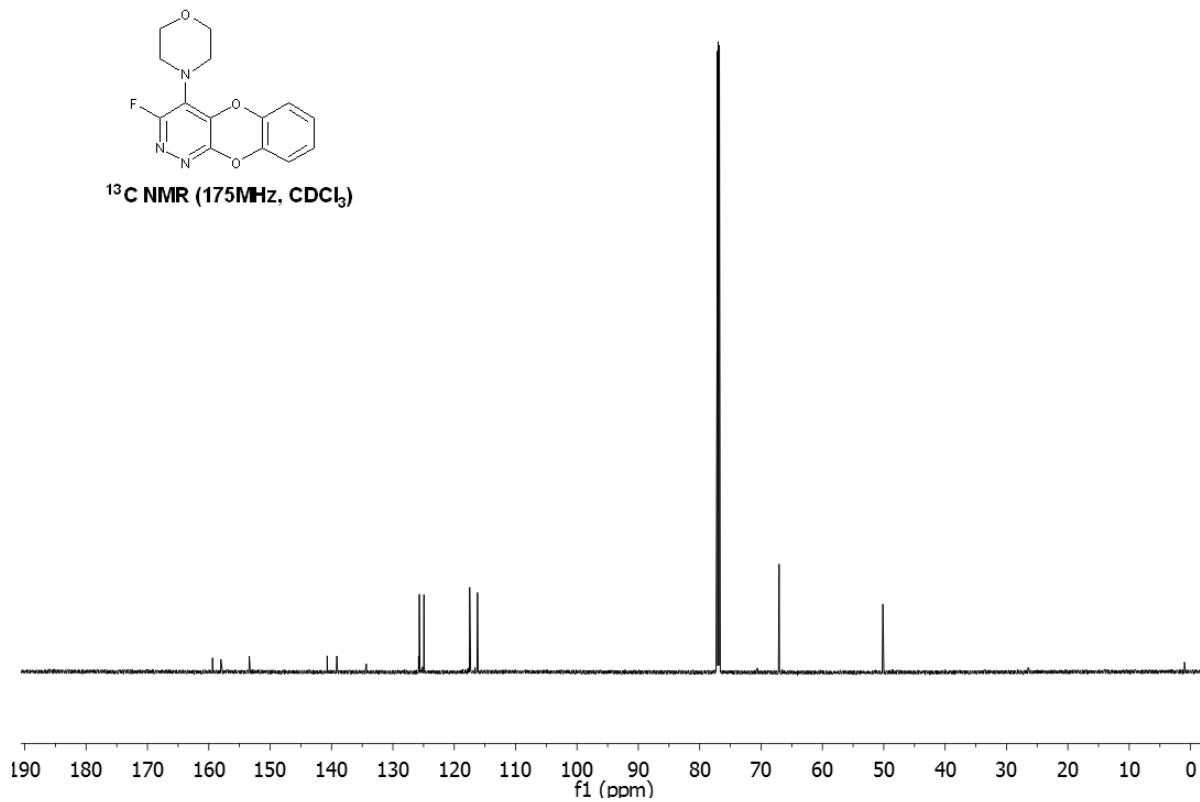
3-Fluoro-4-(morpholin-4-yl)-9,10-dioxa-1,2-diaza-anthracene (9a)

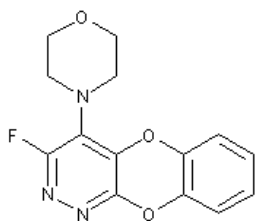


¹H NMR (700MHz, CDCl₃)

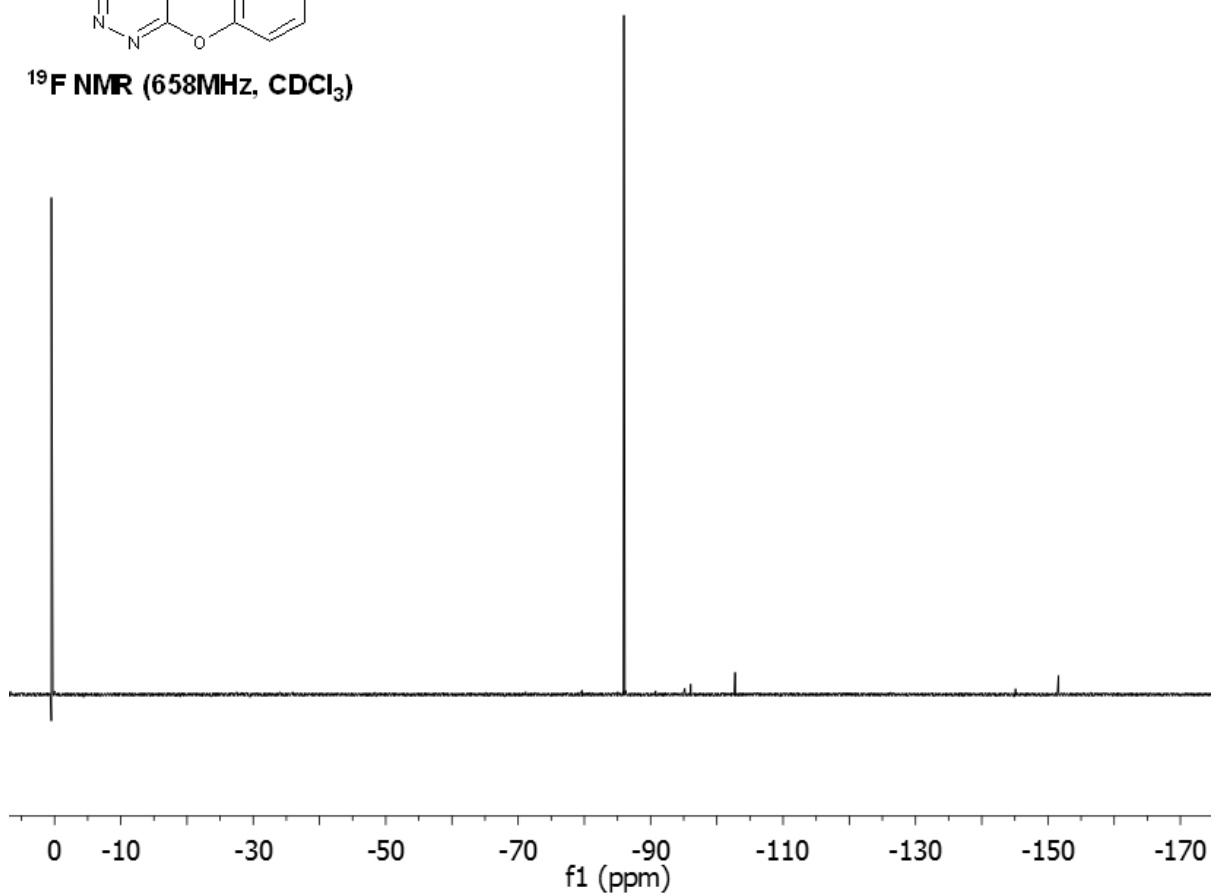


¹³C NMR (175MHz, CDCl₃)

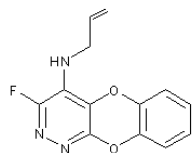




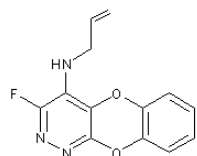
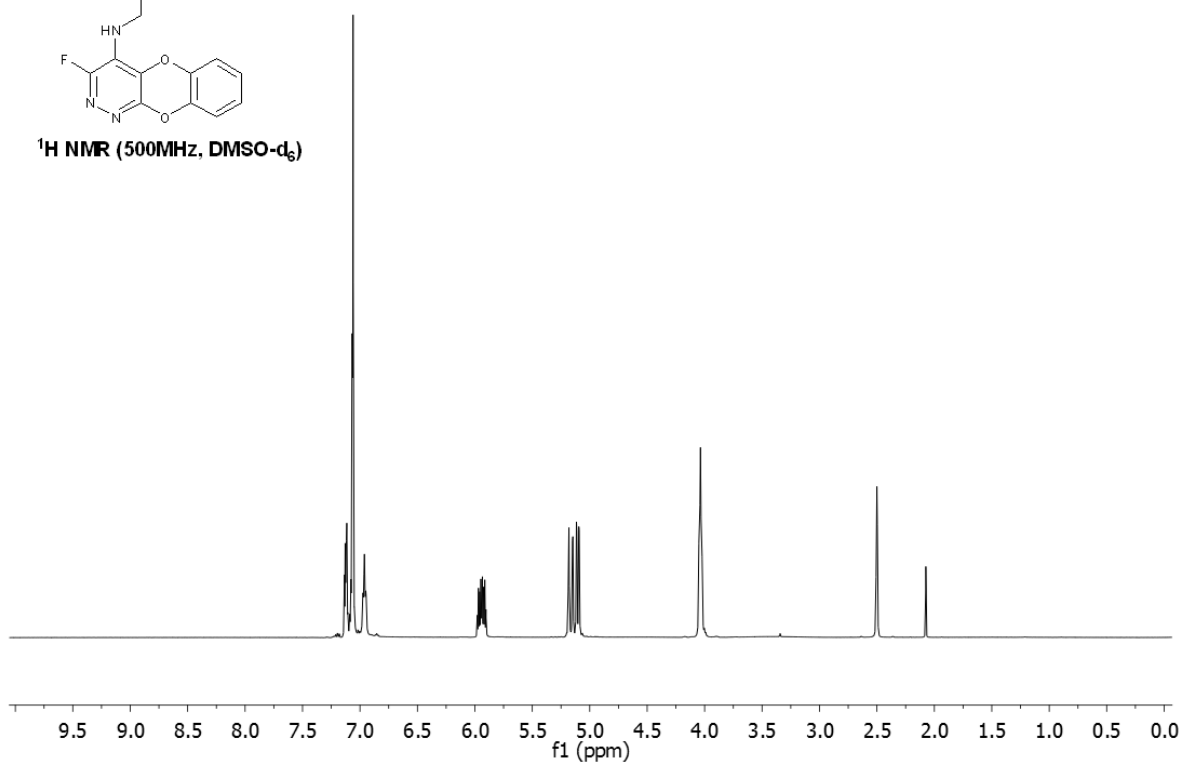
¹⁹F NMR (658MHz, CDCl₃)



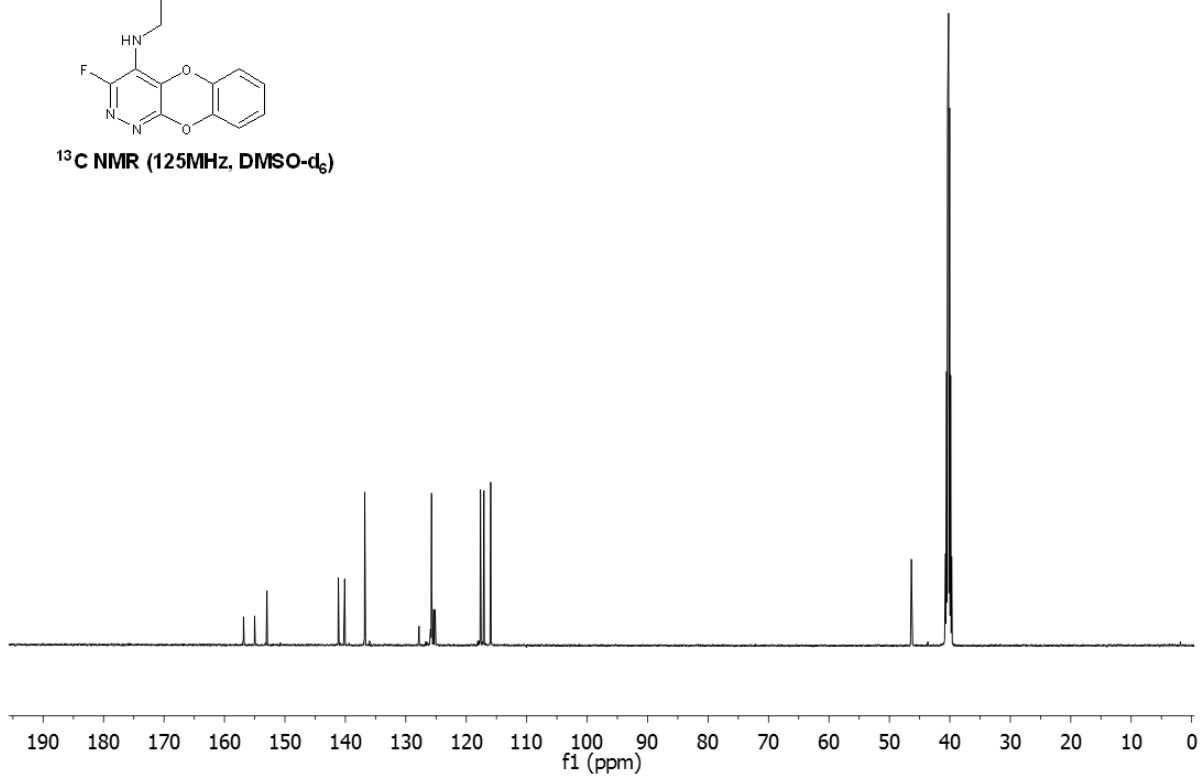
4-Allylamino-3-fluoro-9,10-dioxo-1,2-diaza-anthracene (9b)

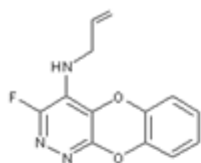


¹H NMR (500MHz, DMSO-d₆)

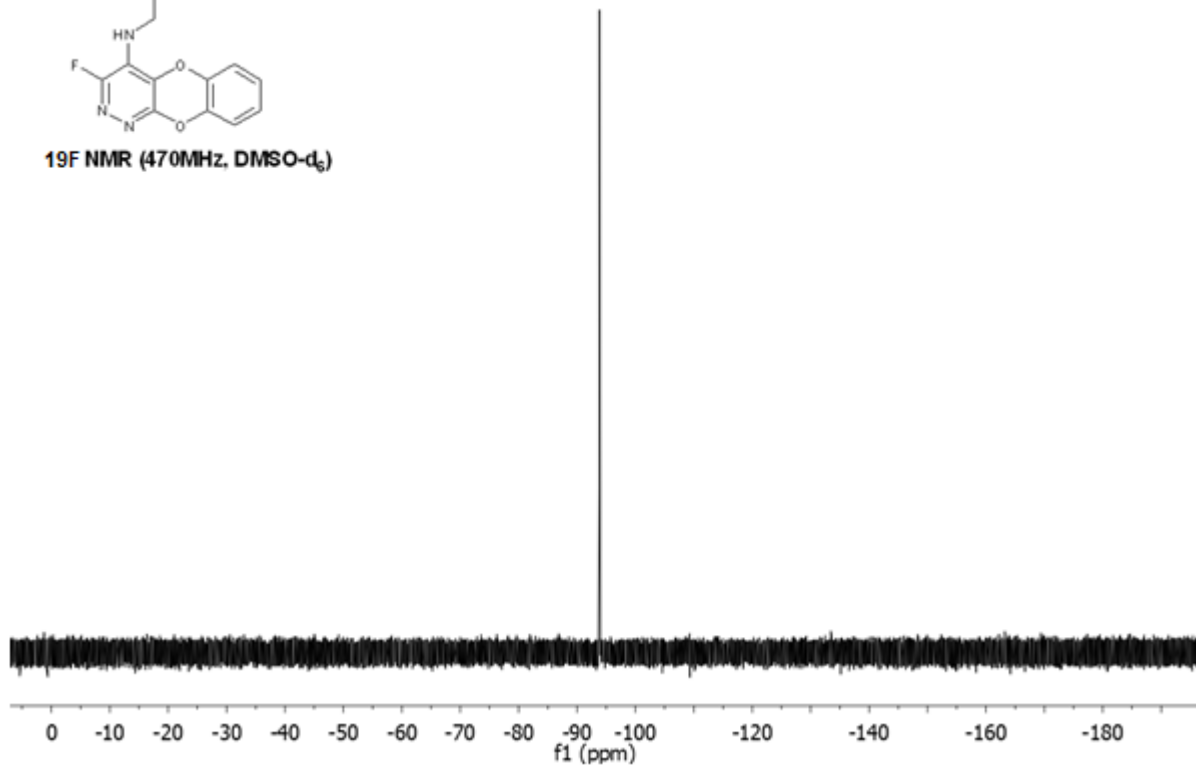


¹³C NMR (125MHz, DMSO-d₆)

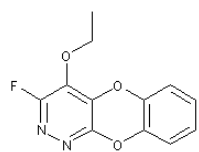




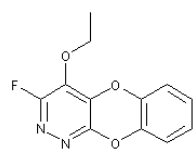
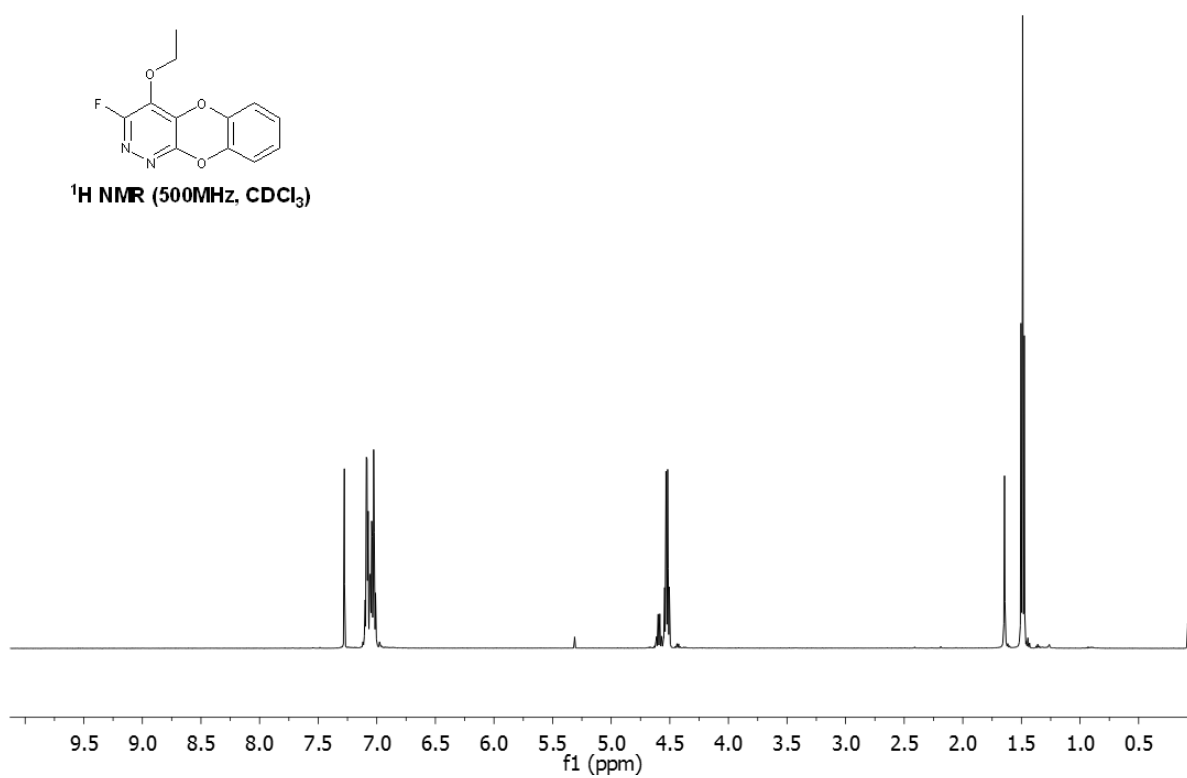
¹⁹F NMR (470MHz, DMSO-d₆)



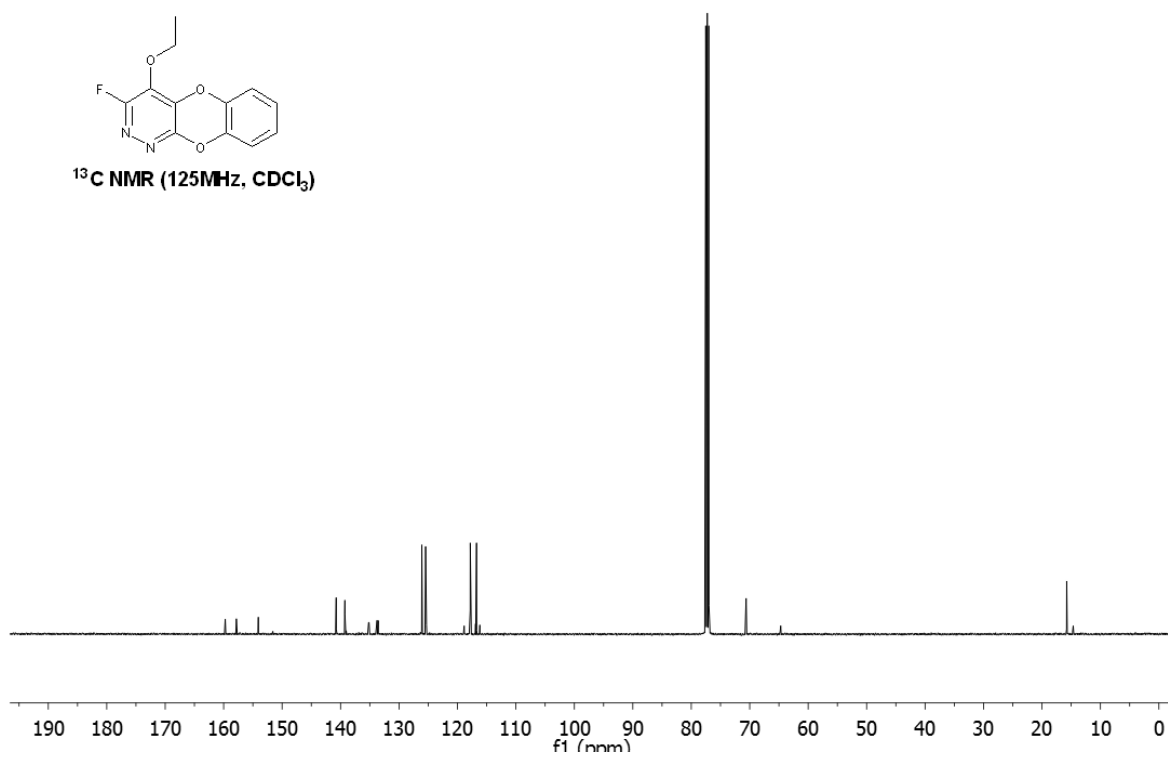
4-Ethoxy-3-fluoro-9,10-dioxo-1,2-diaza-anthracene (9c)

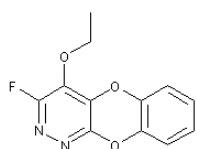


¹H NMR (500MHz, CDCl₃)



¹³C NMR (125MHz, CDCl₃)





¹⁹F NMR (470MHz, CDCl₃)

