Supporting Information

Sensitized Aliphatic Fluorination Directed by Terpenoidal Enones: A "Visible Light" Approach

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NMR Spectral Data of Fluorinated Products

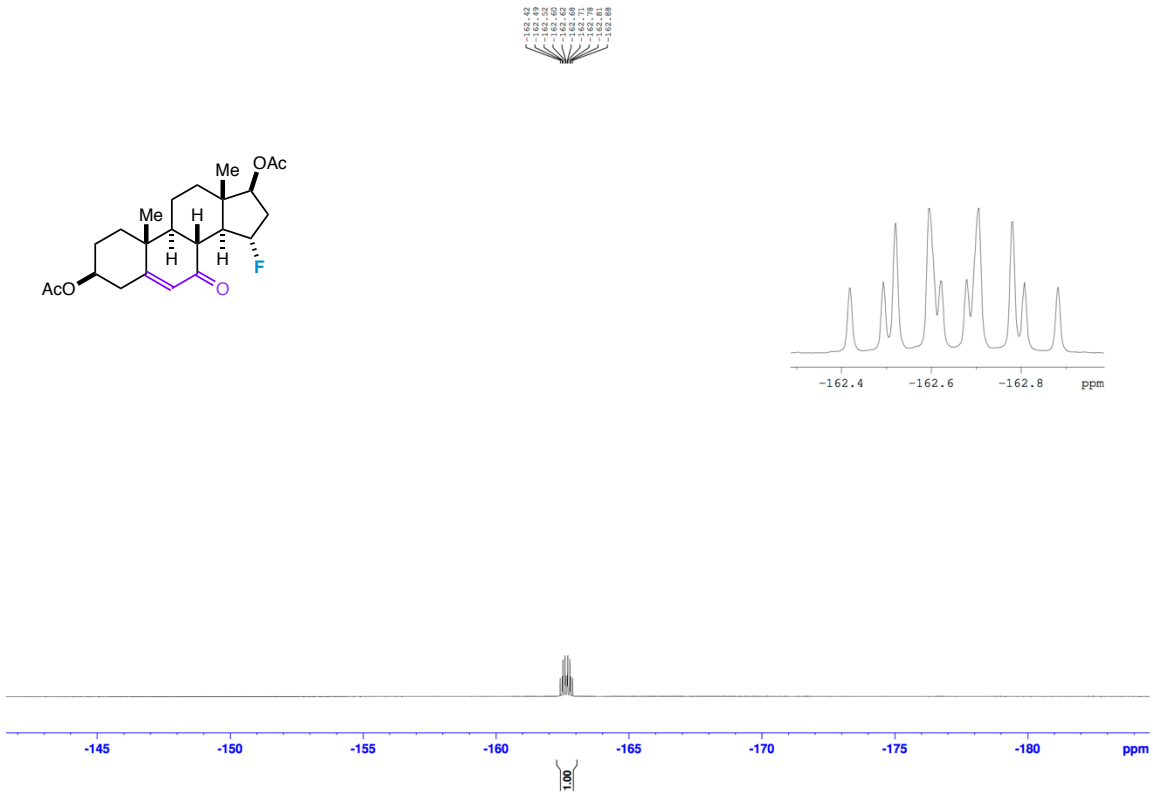

Fig. S1. ^{19}F NMR spectrum of compound **2** (major diastereomer).

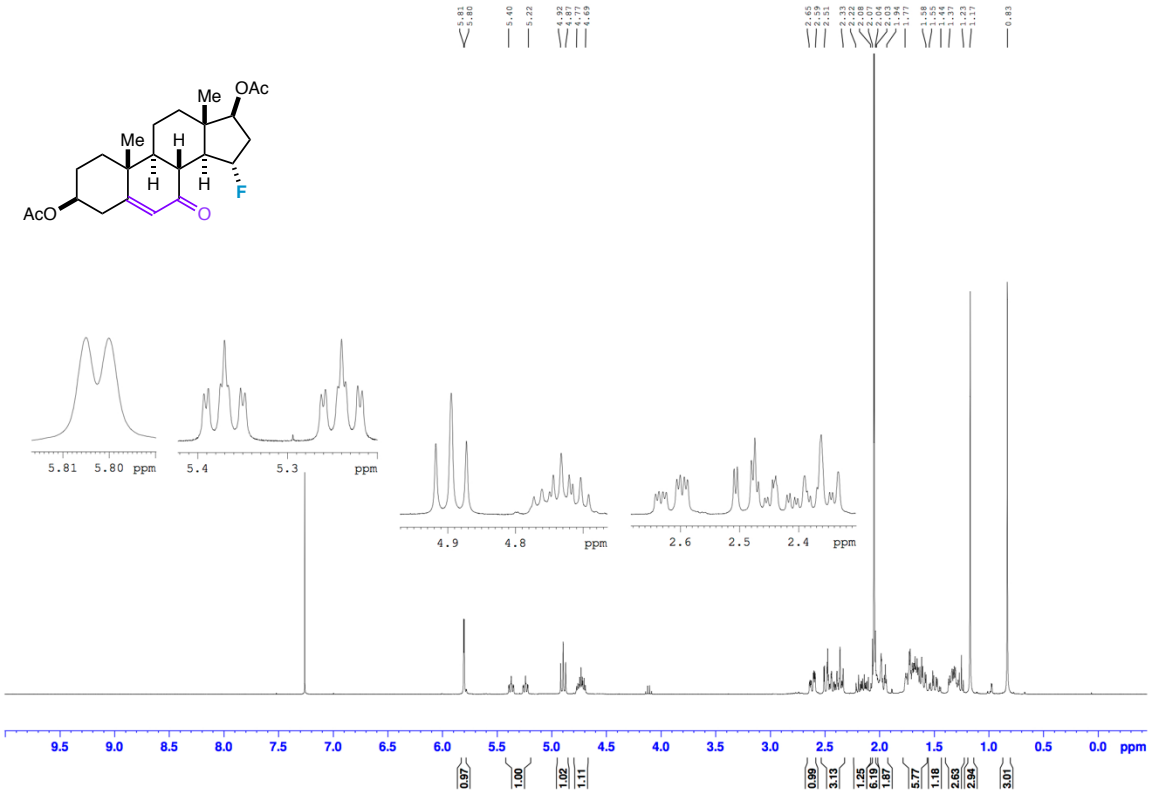

Fig. S2. ^{1}H NMR spectrum of compound **2** (major diastereomer).

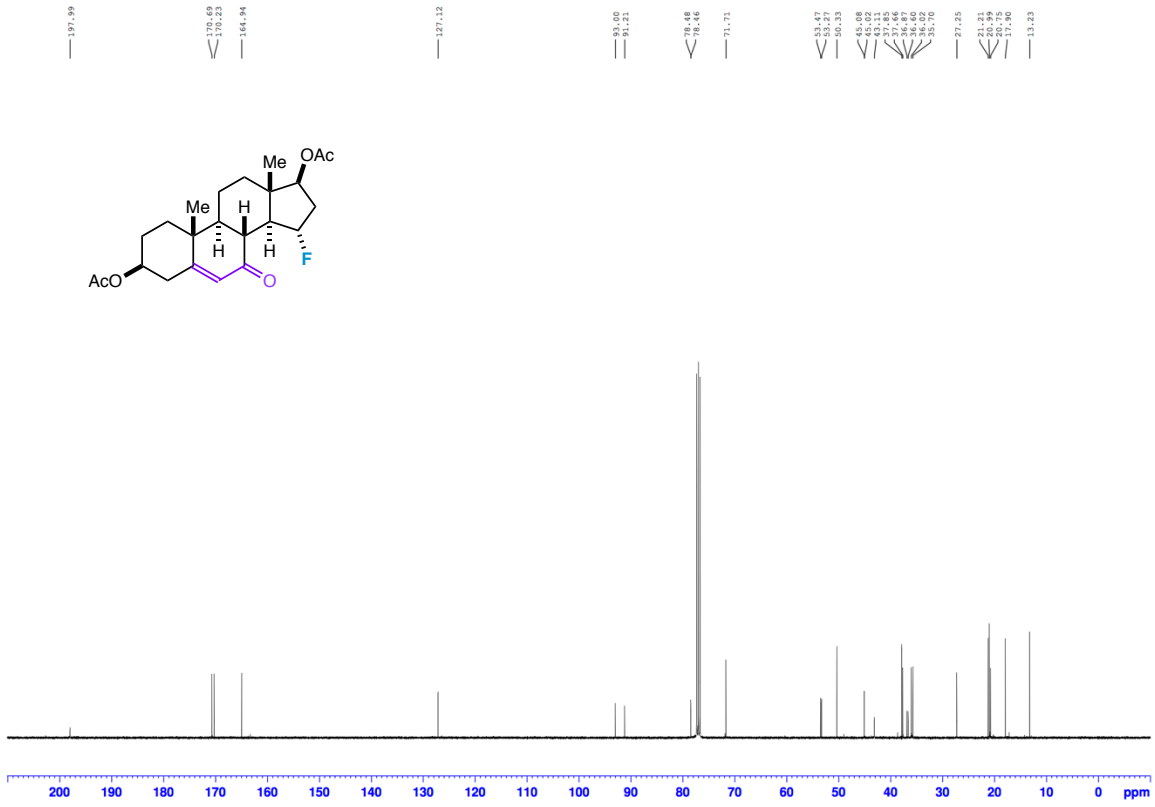

Fig. S3. $^{13}C\{^{1}H\}$ NMR spectrum of compound **2** (major diastereomer).

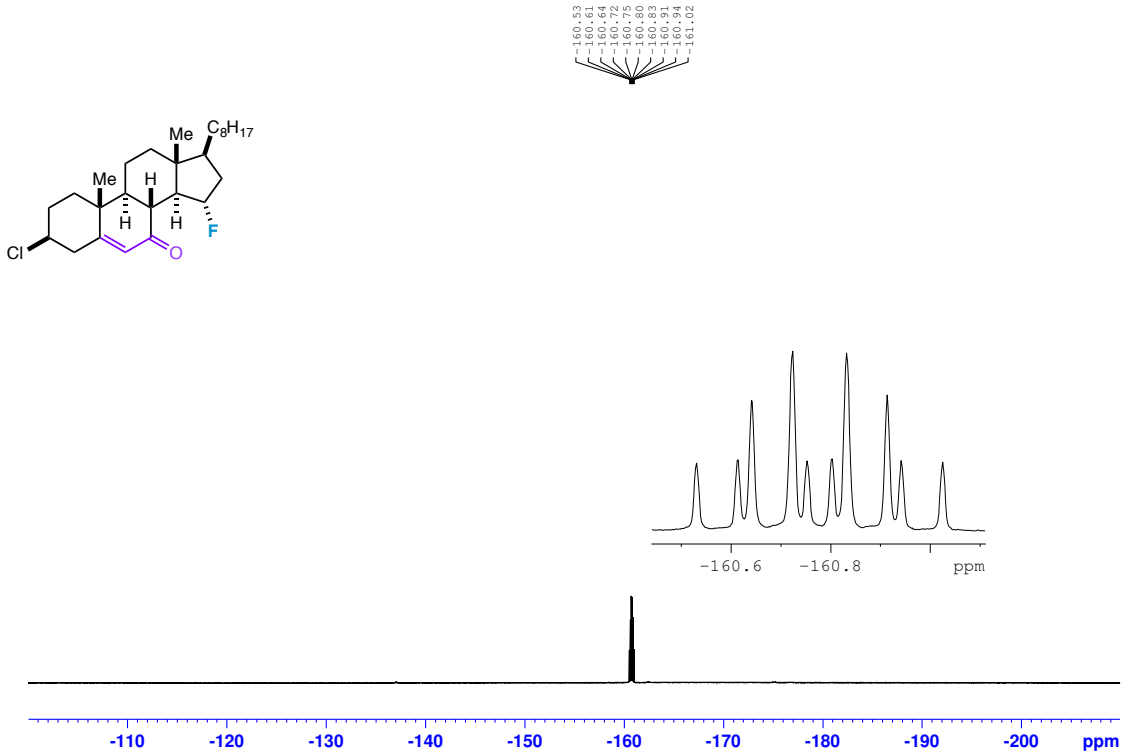

Fig. S4. ^{19}F NMR spectrum of compound **3** (major diastereomer).

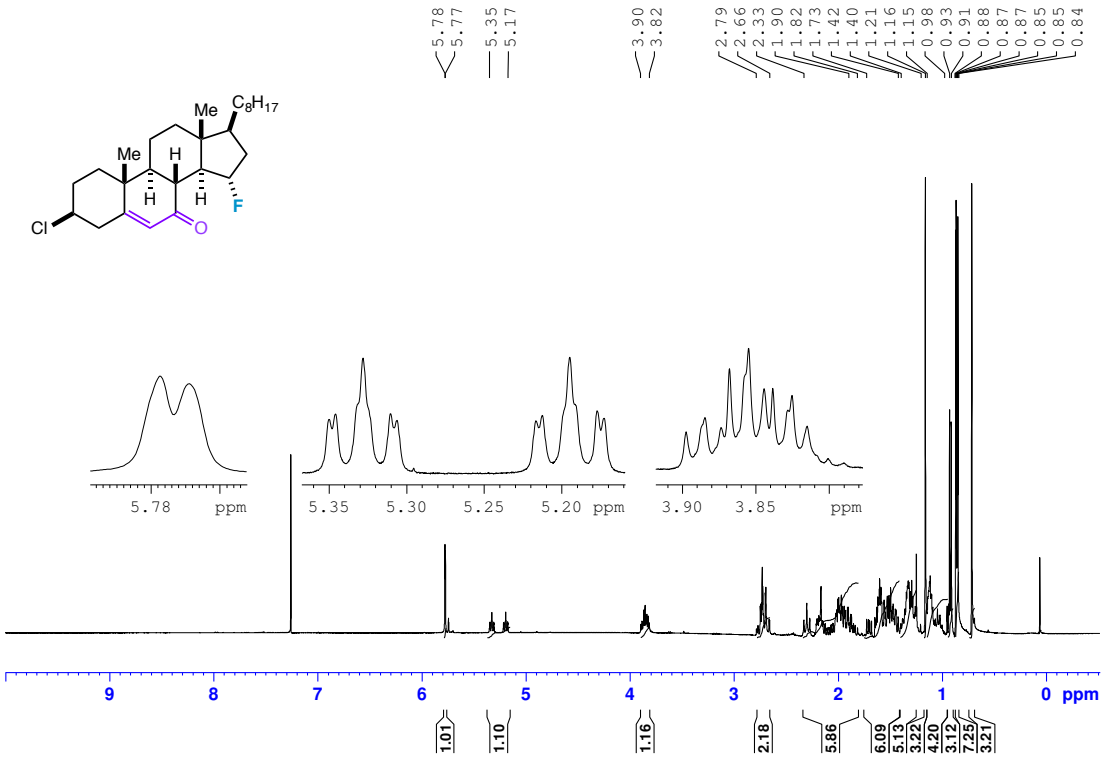

Fig. S5. ^{1}H NMR spectrum of compound **3** (major diastereomer).

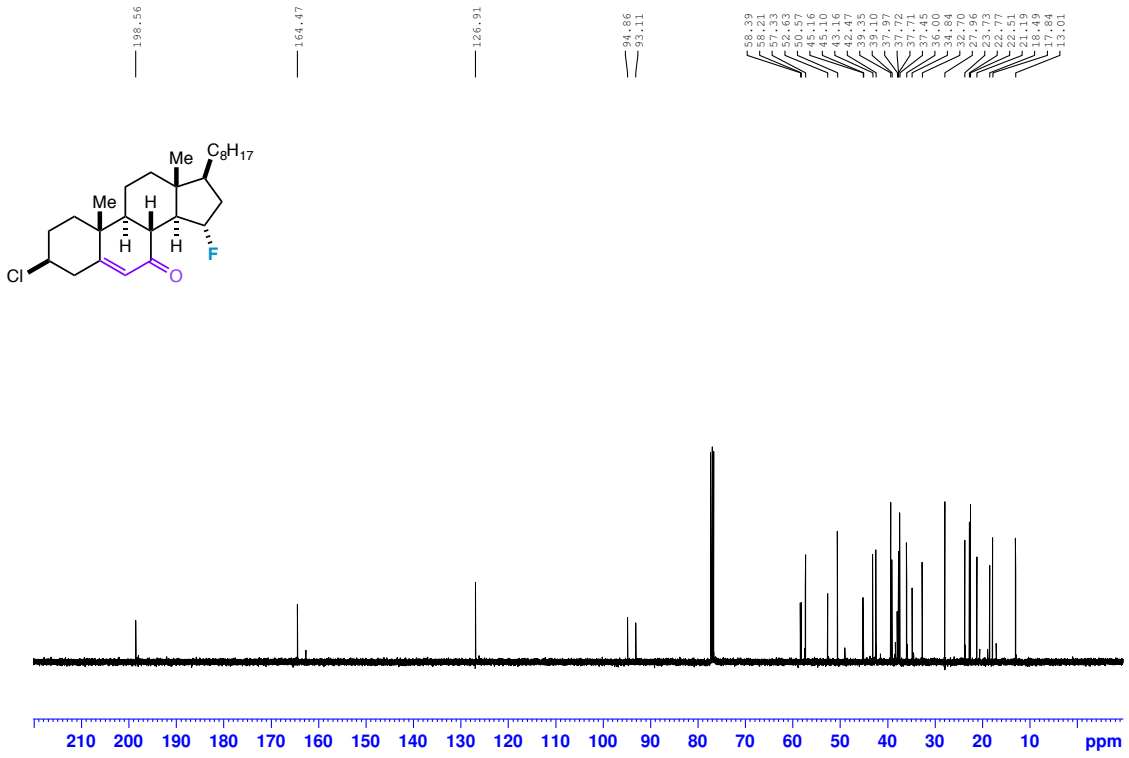

Fig. S6. $^{13}C\{^{1}H\}$ NMR spectrum of compound **3** (major diastereomer).

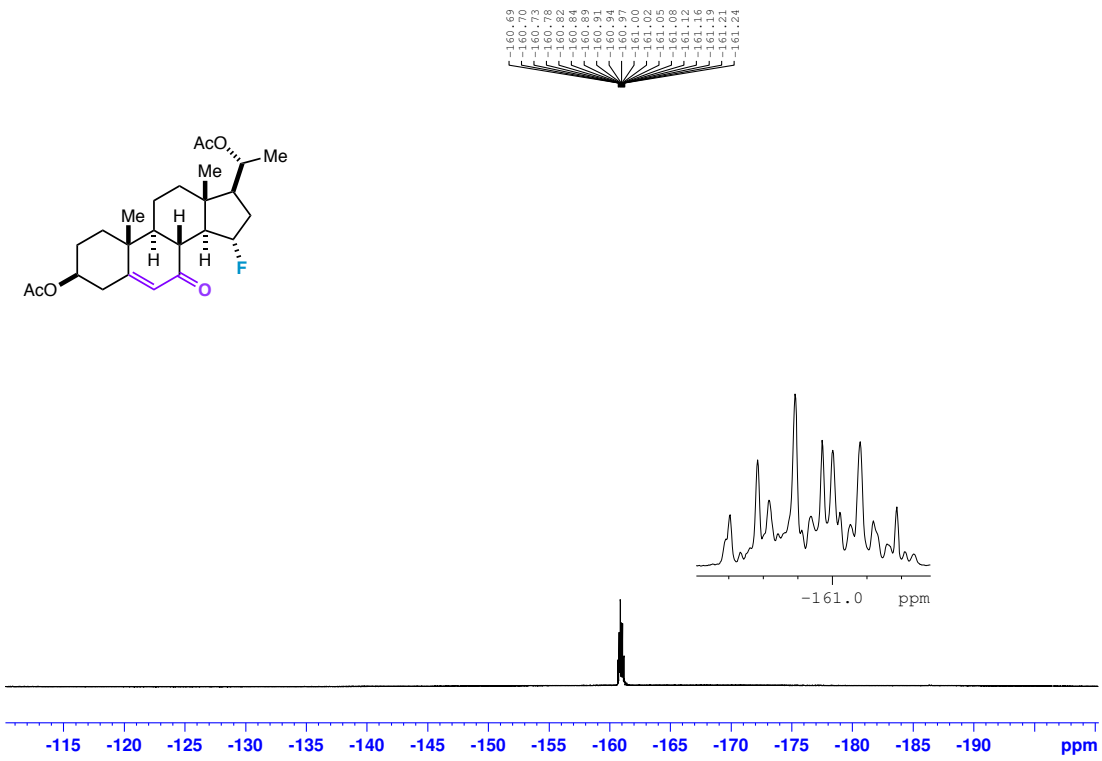

Fig. S7. ^{19}F NMR spectrum of compound **4** (major diastereomer).

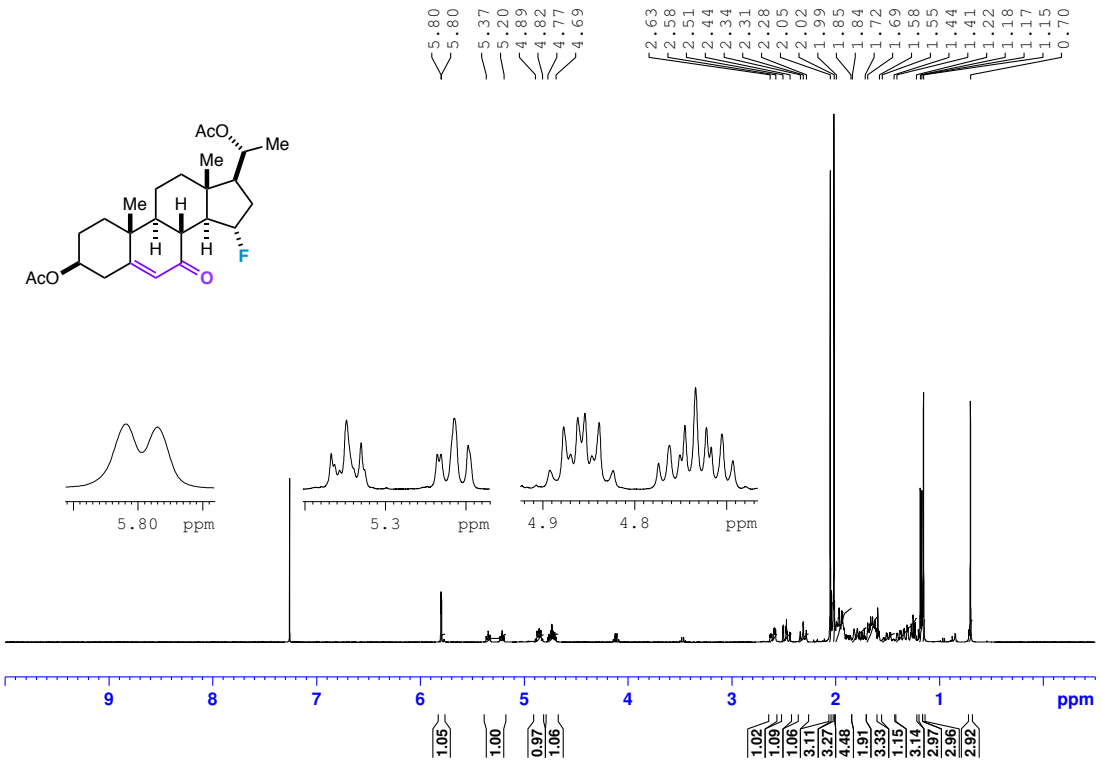

Fig. S8. ^{1}H NMR spectrum of compound **4** (major diastereomer).

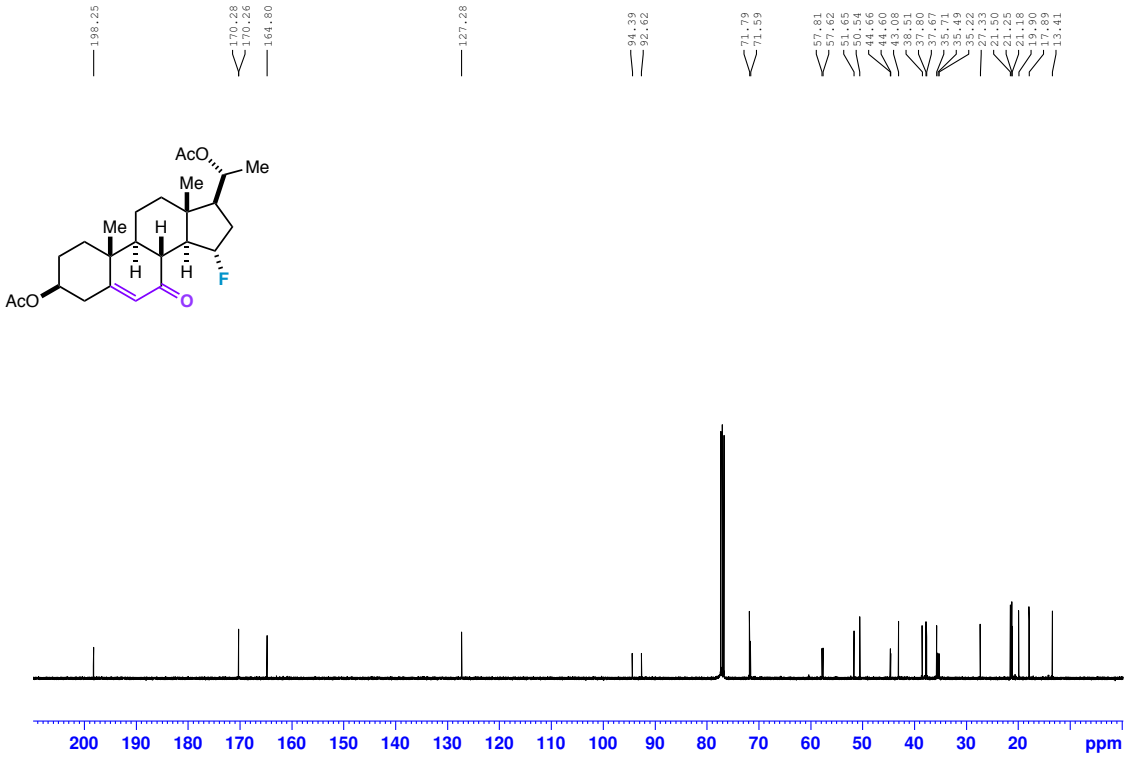

Fig. S9. $^{13}C\{^{1}H\}$ NMR spectrum of compound **4** (major diastereomer).

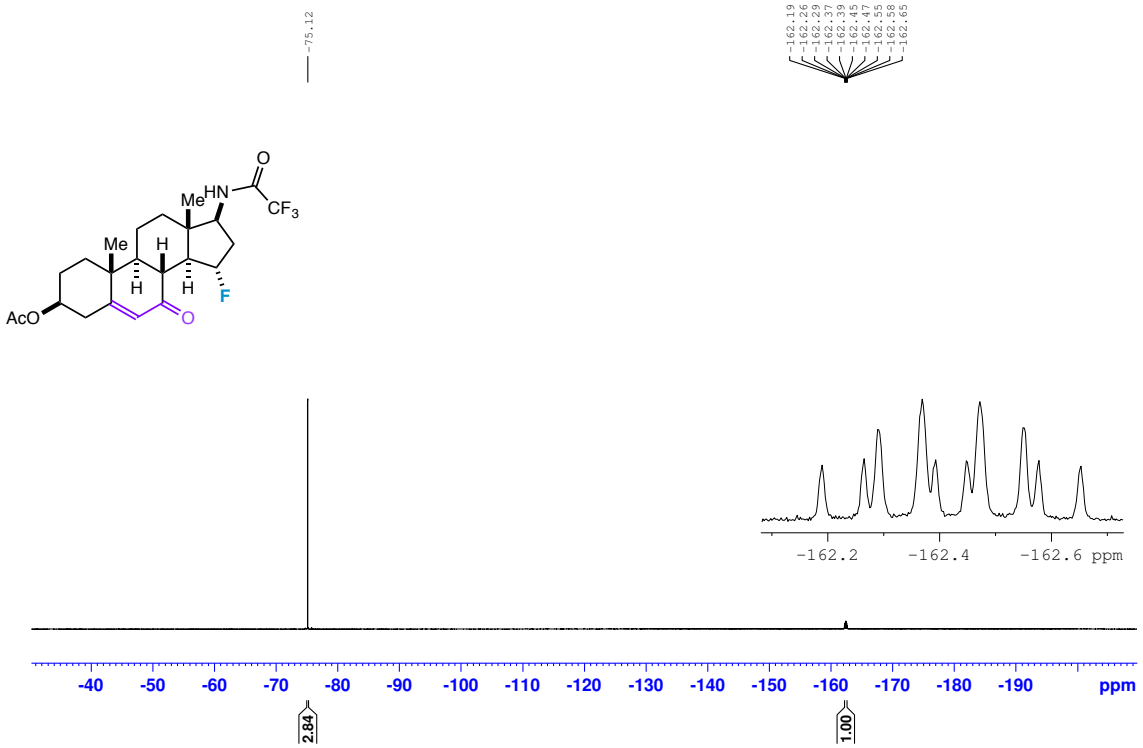

Fig. S10. ^{19}F NMR spectrum of compound **5** (major diastereomer).

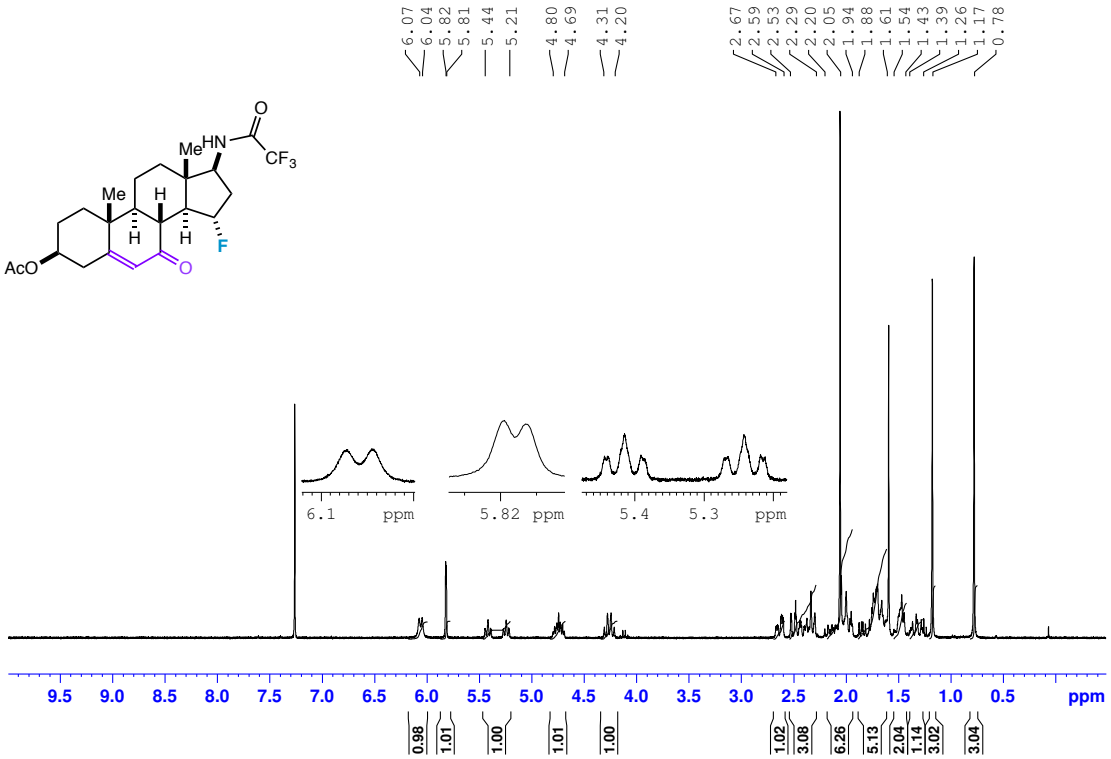

Fig. S11. ^{1}H NMR spectrum of compound **5** (major diastereomer).

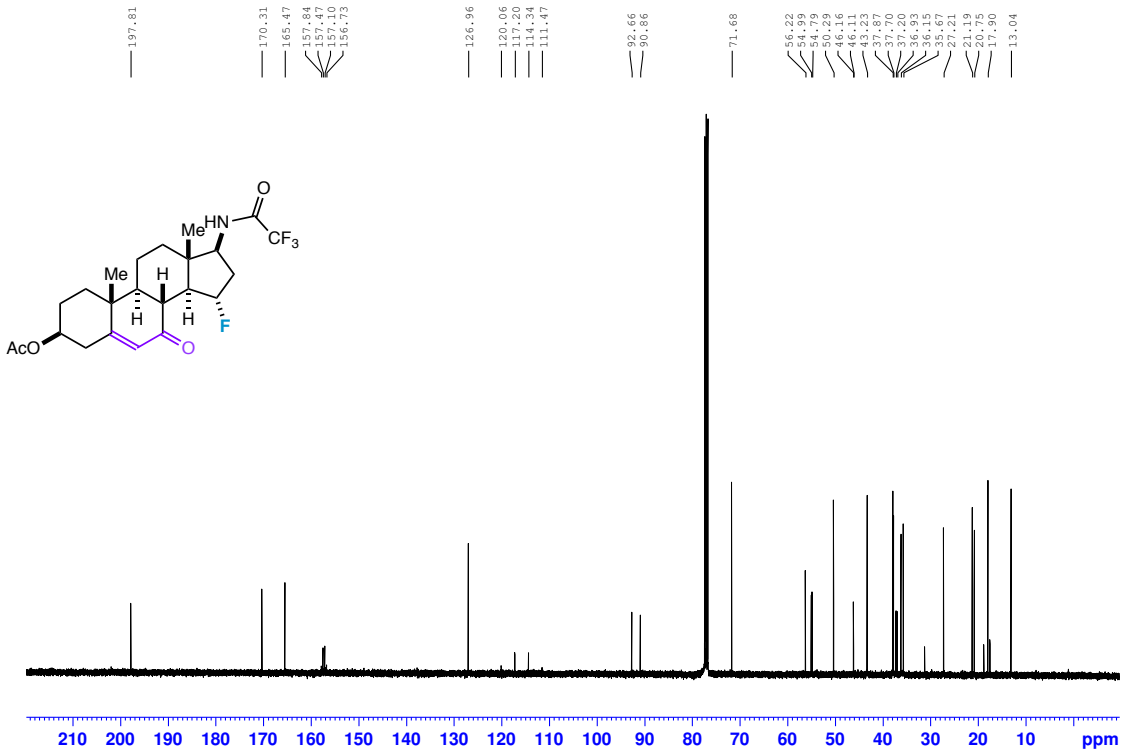

Fig. S12. $^{13}C\{^{1}H\}$ NMR spectrum of compound **5** (major diastereomer).

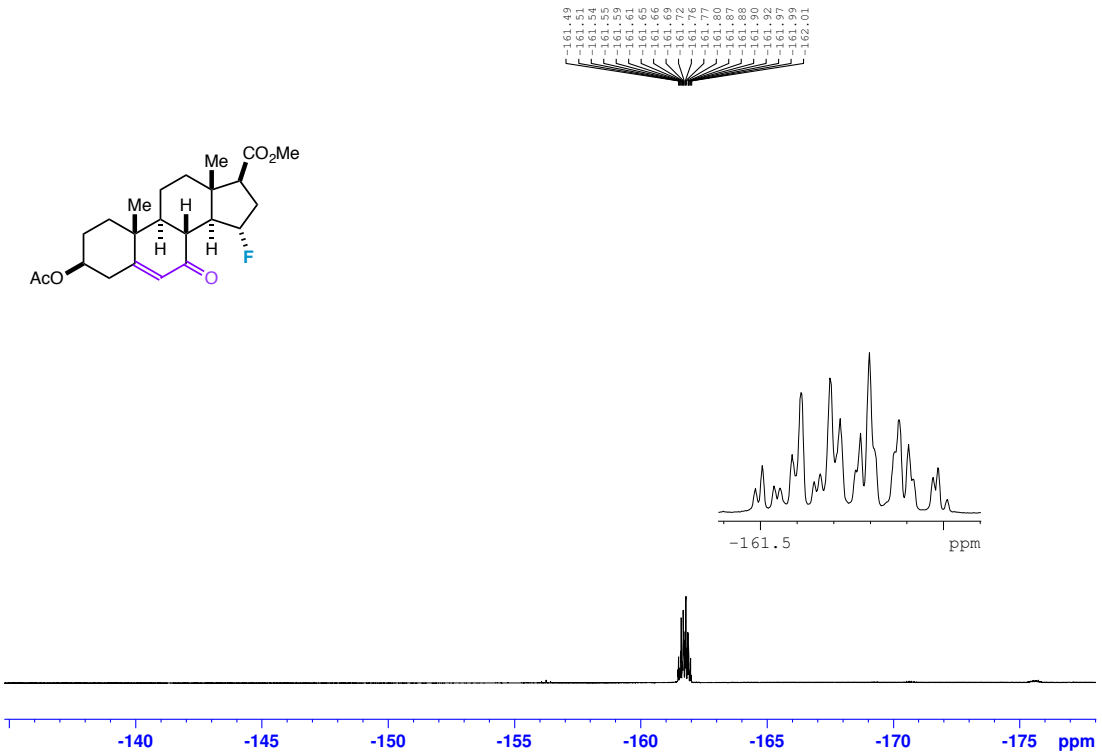

Fig. S13. ^{19}F NMR spectrum of compound **6** (major diastereomer).

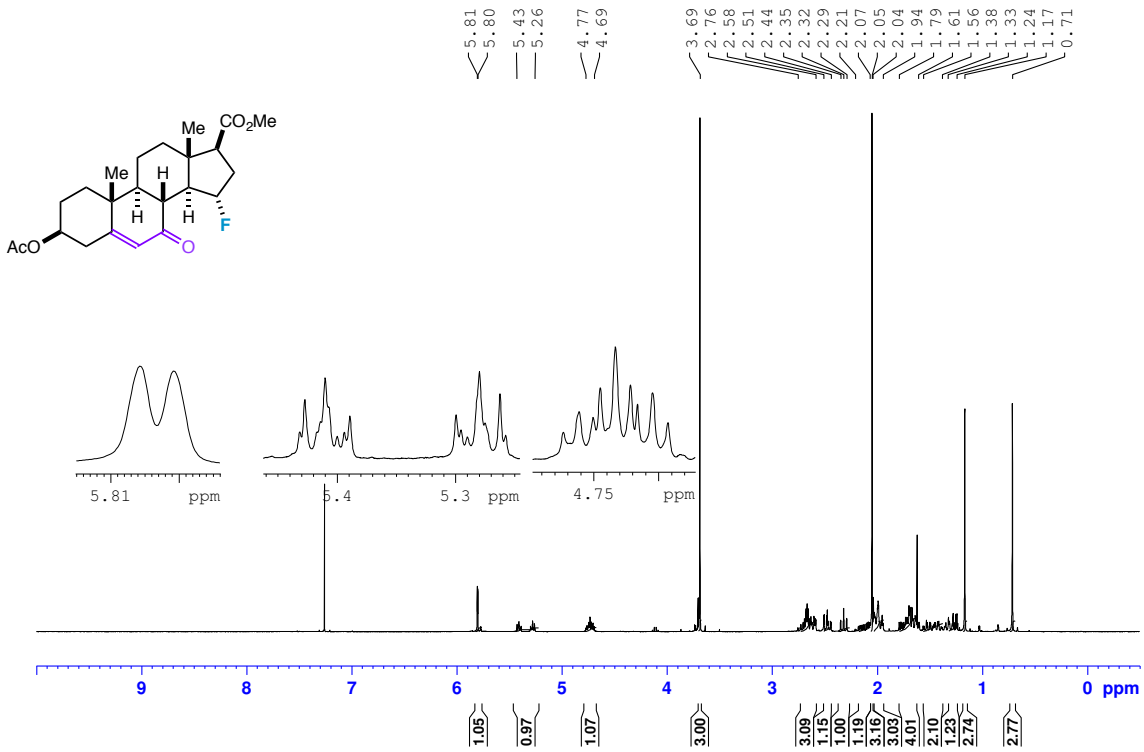

Fig. S14. ^{1}H NMR spectrum of compound **6** (major diastereomer).

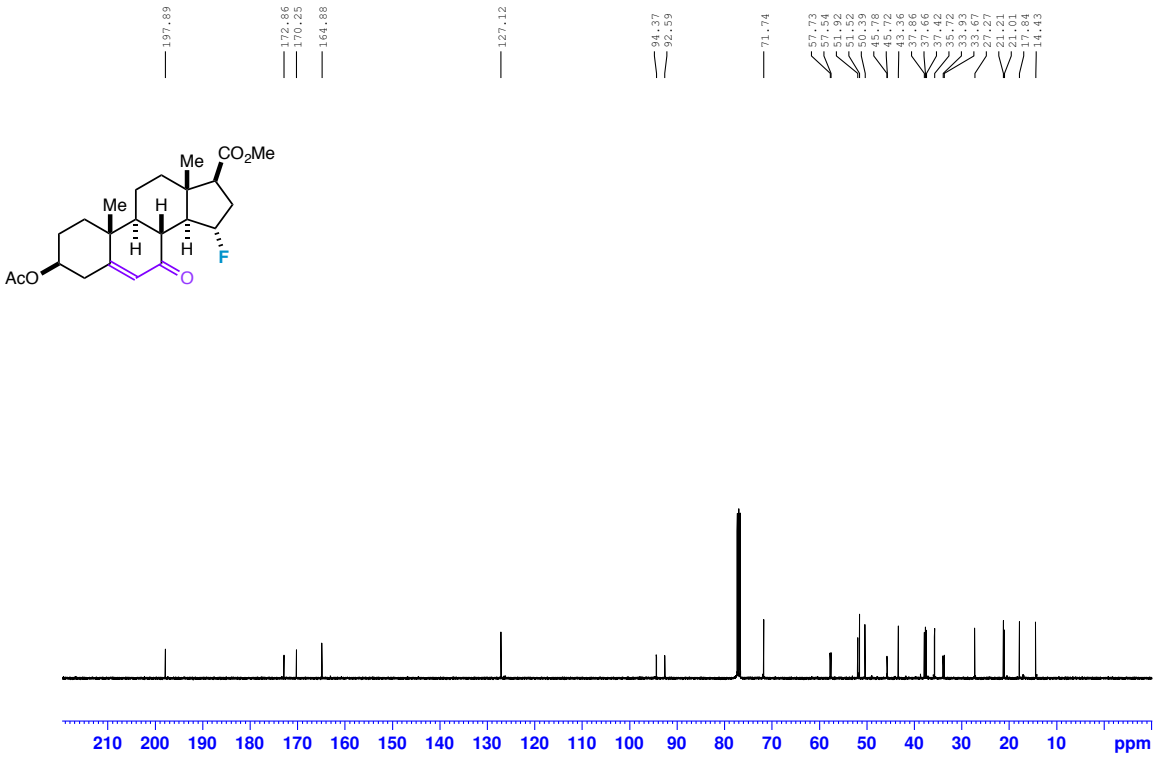

Fig. S15. $^{13}C\{^{1}H\}$ NMR spectrum of compound **6** (major diastereomer).

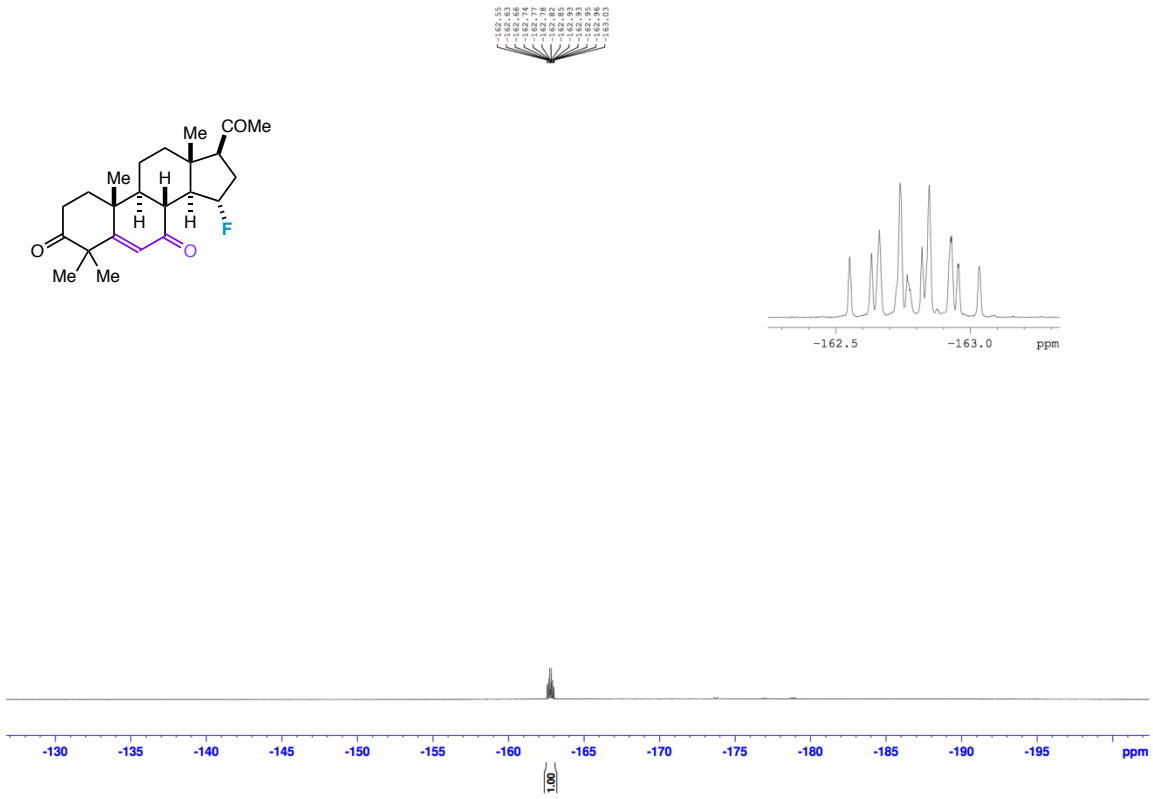

Fig. S16. ^{19}F NMR spectrum of compound **7** (major diastereomer).

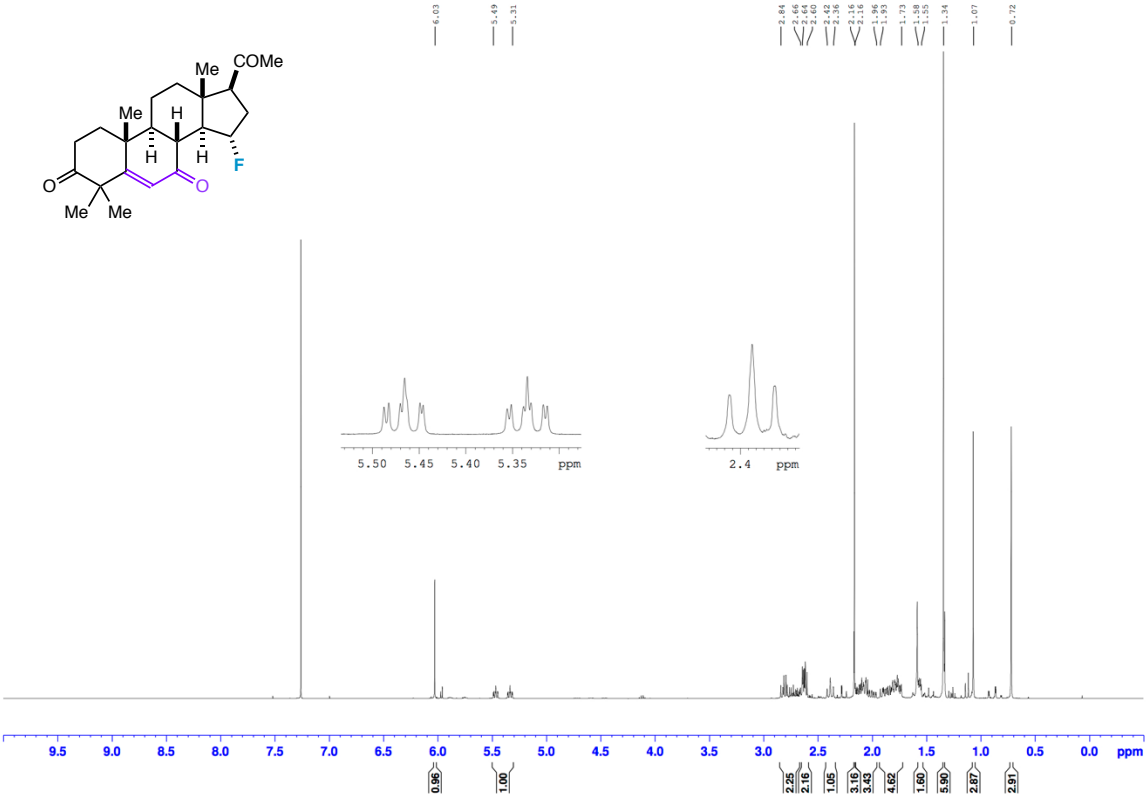

Fig. S17. ^{1}H NMR spectrum of compound **7** (major diastereomer).

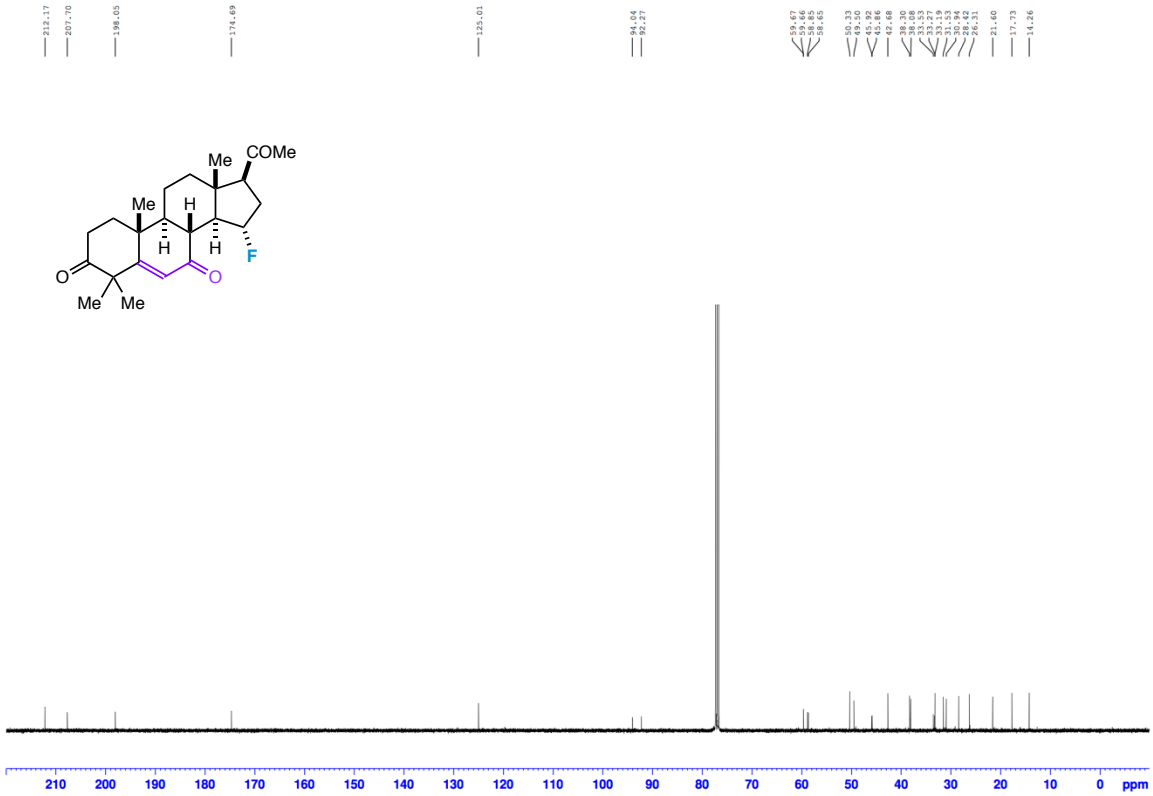

Fig. S18. $^{13}C\{^{1}H\}$ NMR spectrum of compound **7** (major diastereomer).

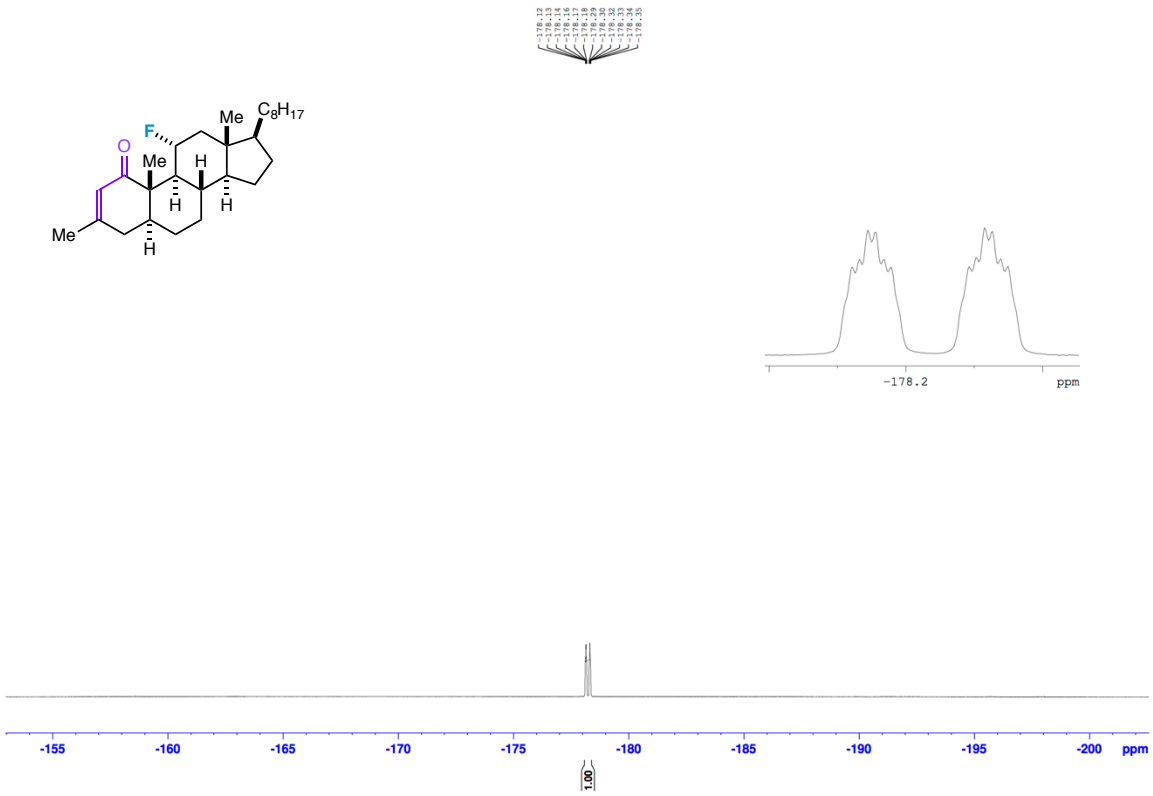

Fig. S19. ^{19}F NMR spectrum of compound **8** (major diastereomer).

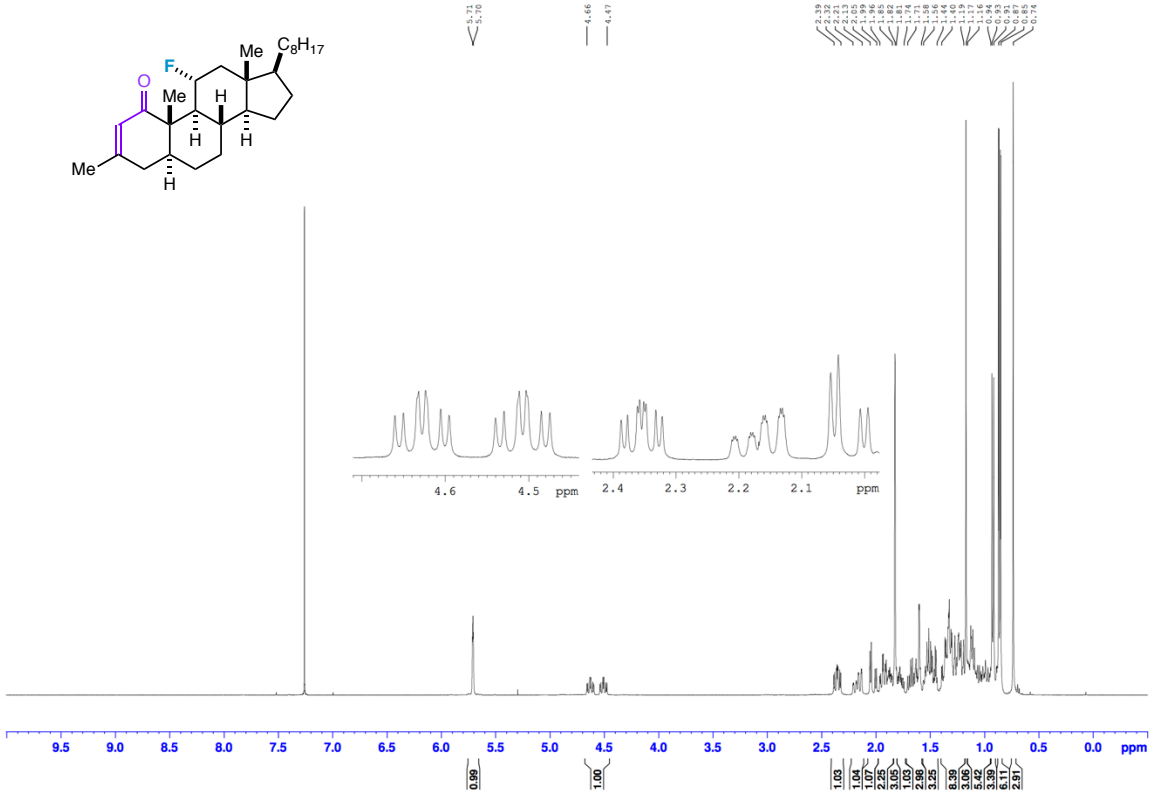

Fig. S20. ^{1}H NMR spectrum of compound **8** (major diastereomer).

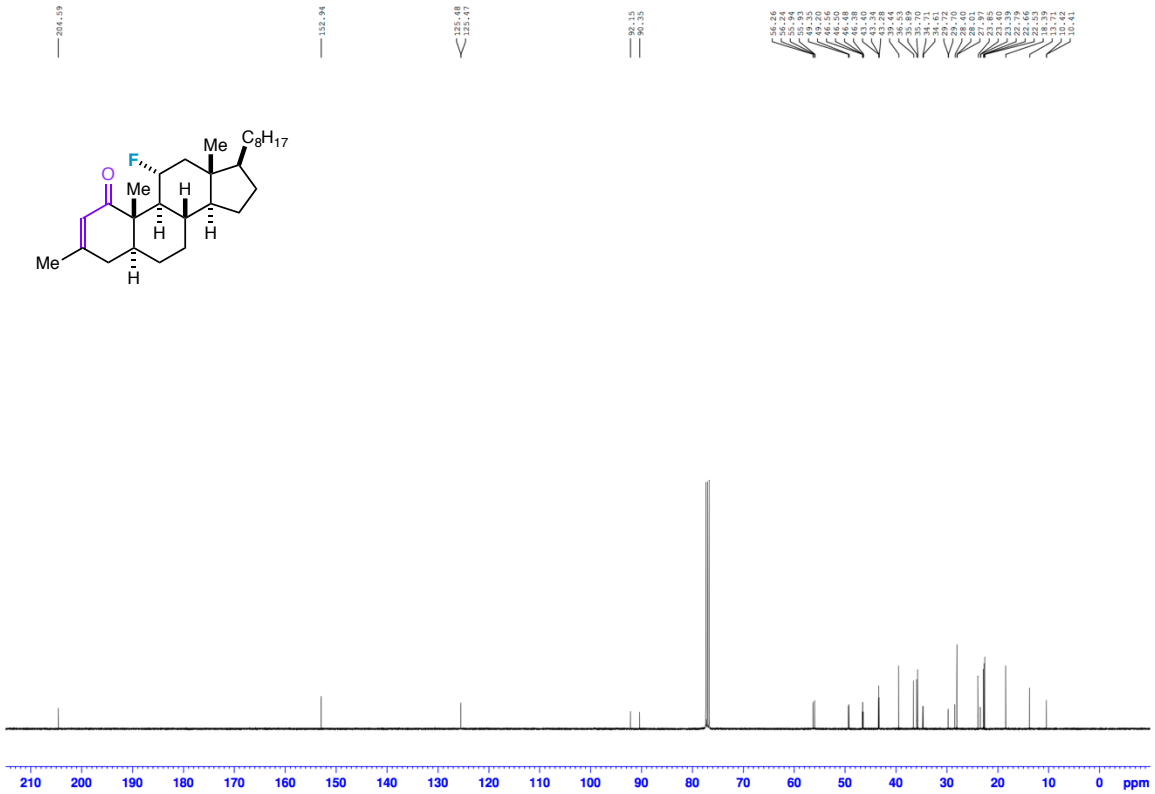

Fig. S21. $^{13}C\{^{1}H\}$ NMR spectrum of compound **8** (major diastereomer).

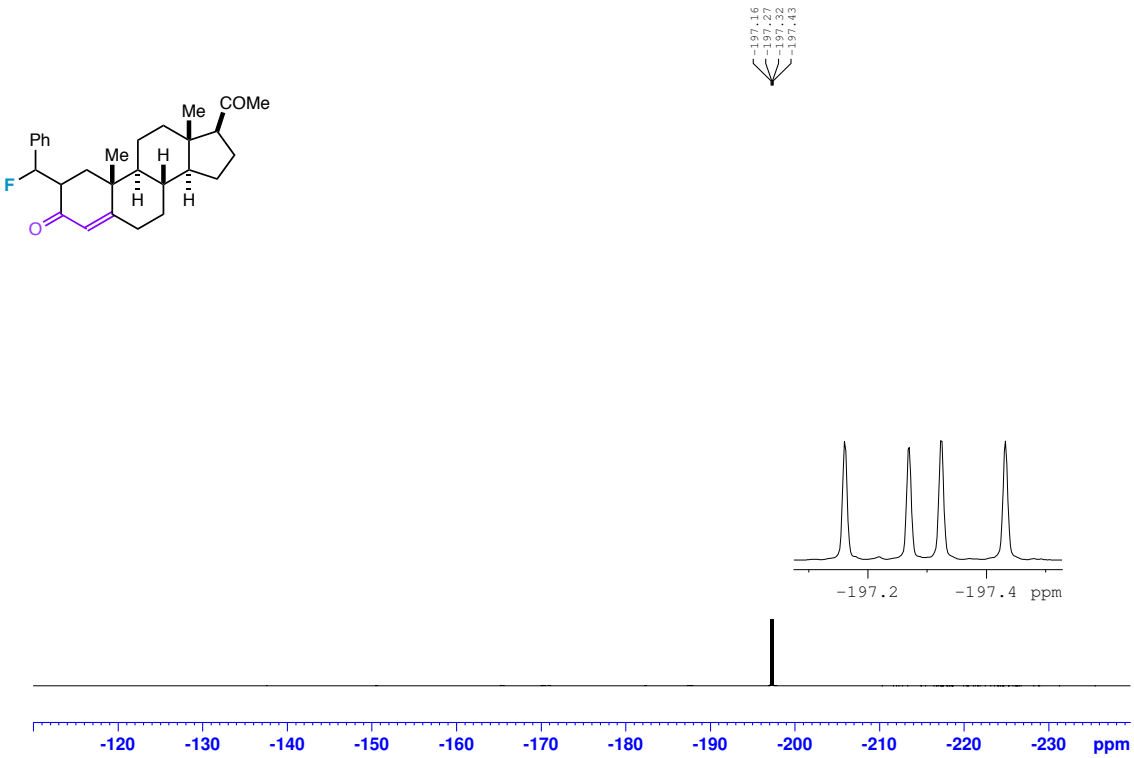

Fig. S22. ^{19}F NMR spectrum of compound **9** (major diastereomer).

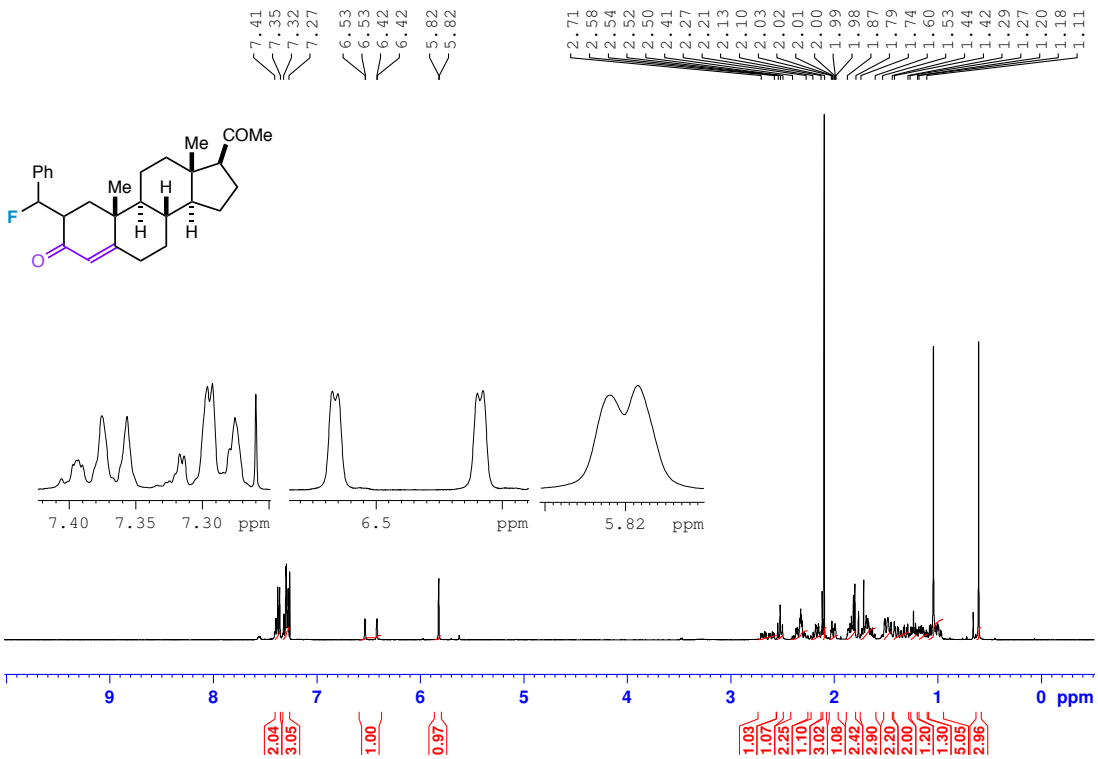

Fig. S23. ^{1}H NMR spectrum of compound **9** (major diastereomer).

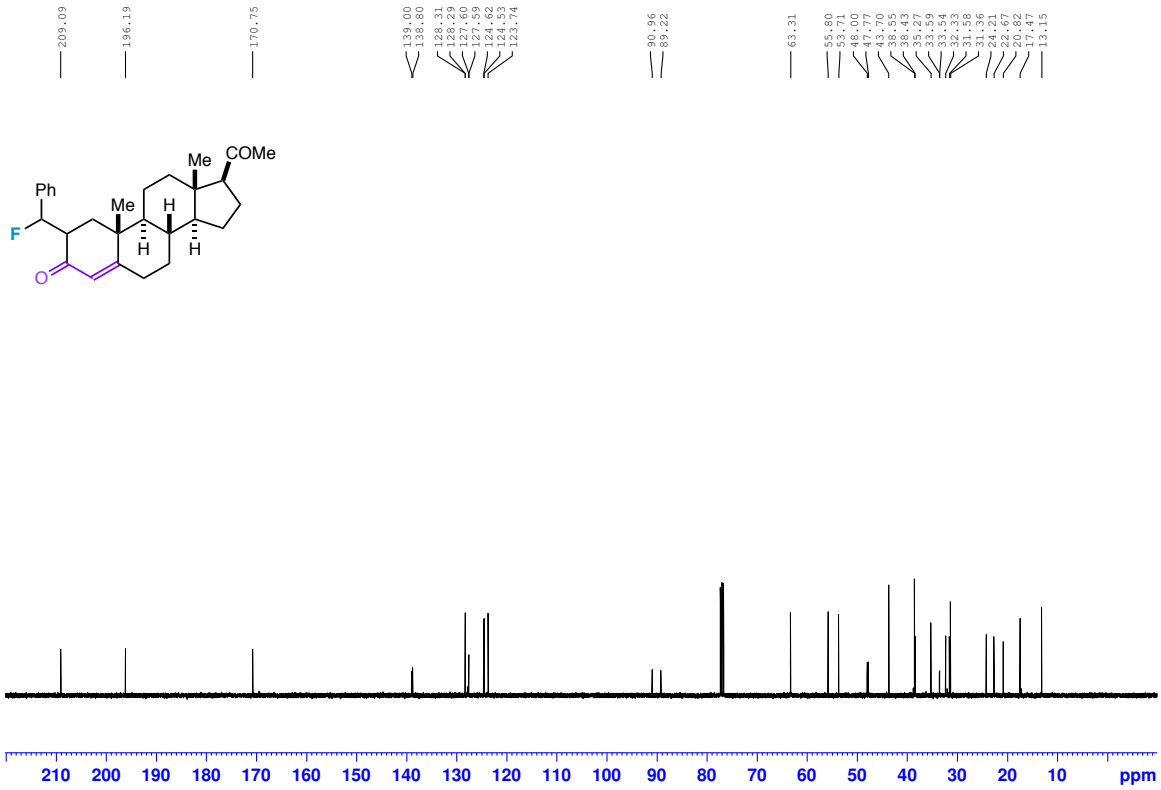

Fig. S24. $^{13}C\{^{1}H\}$ NMR spectrum of compound **9** (major diastereomer).

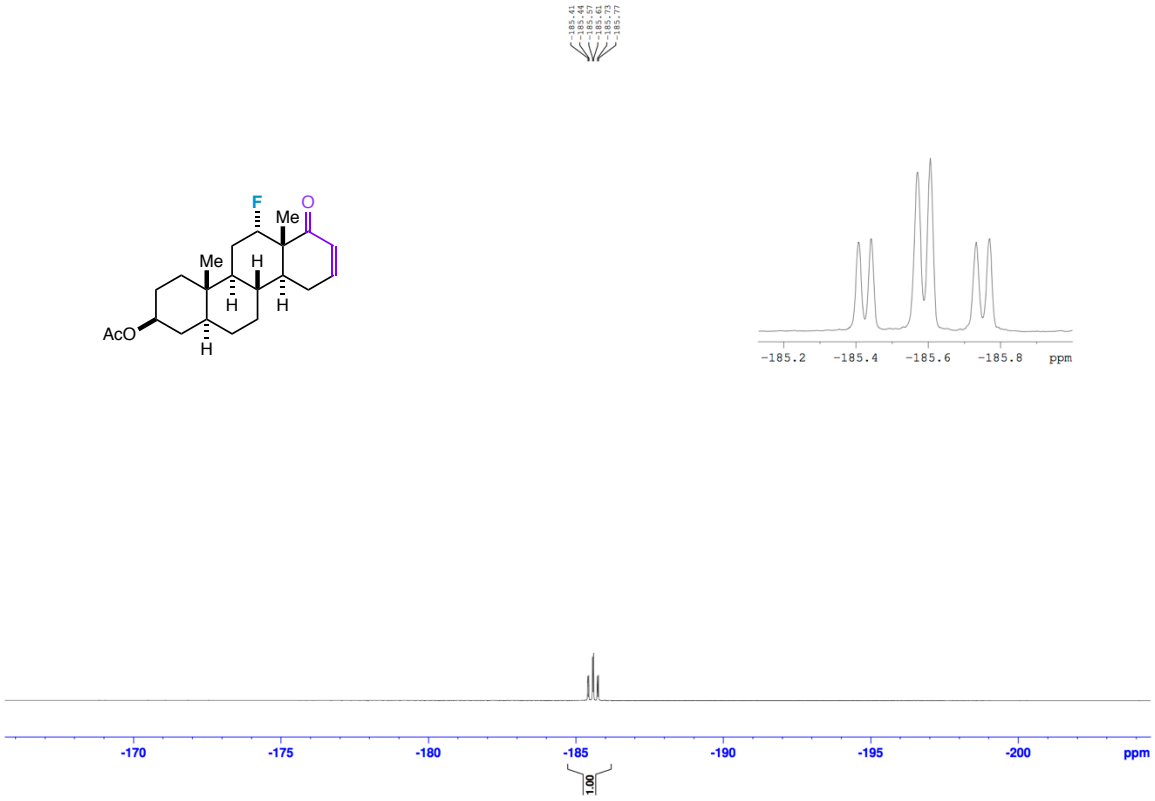

Fig. S25. ^{19}F NMR spectrum of compound **10** (major diastereomer).

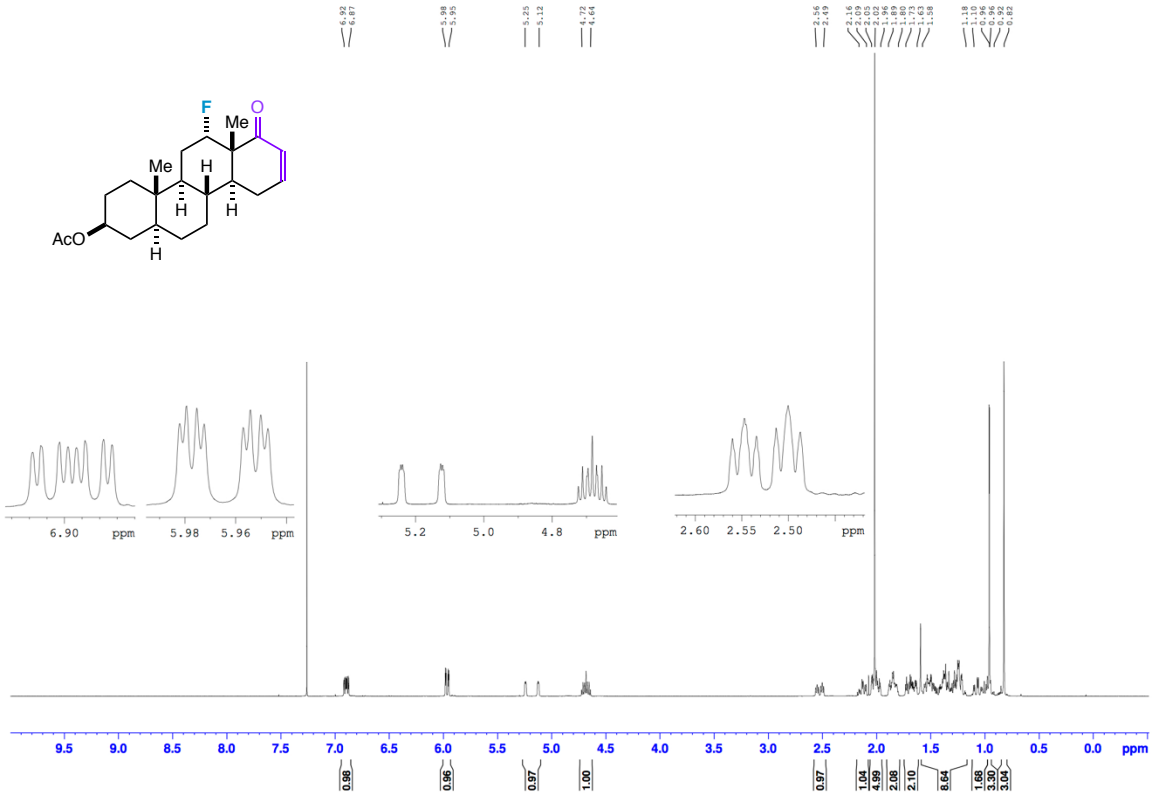

Fig. S26. ^{1}H NMR spectrum of compound **10** (major diastereomer).

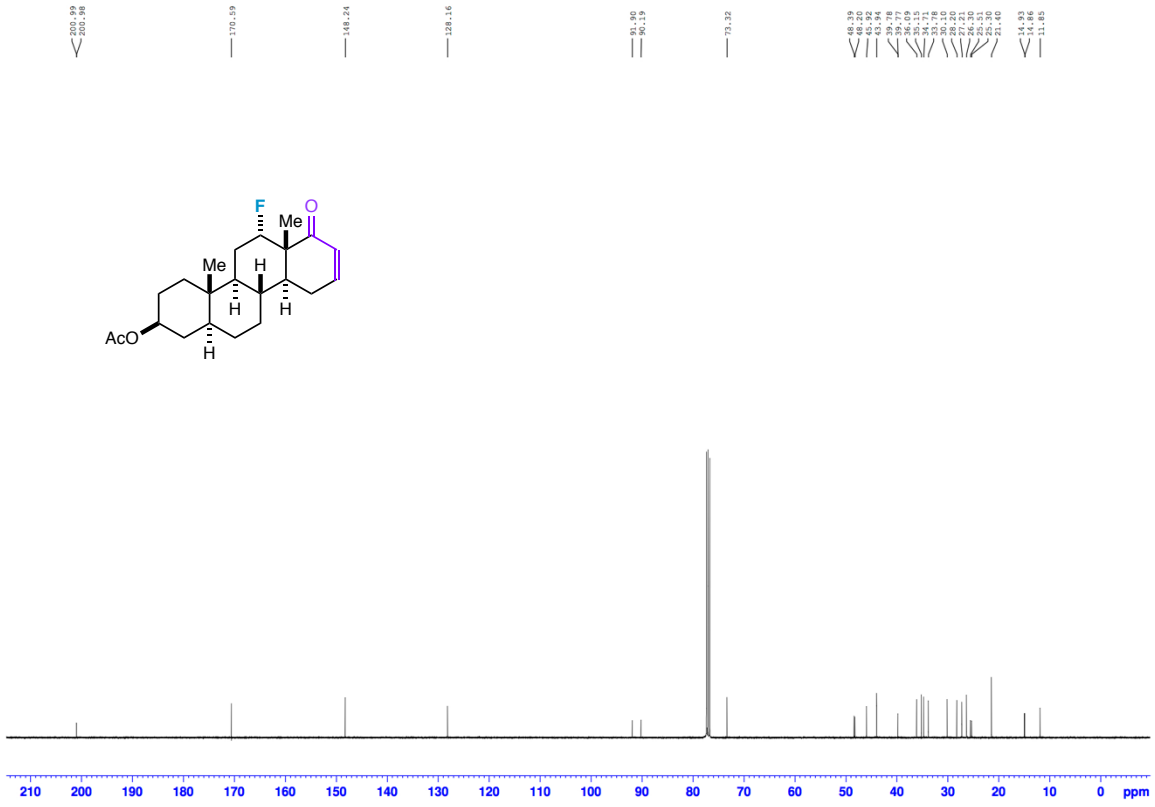

Fig. S27. $^{13}C\{^{1}H\}$ NMR spectrum of compound **10** (major diastereomer).

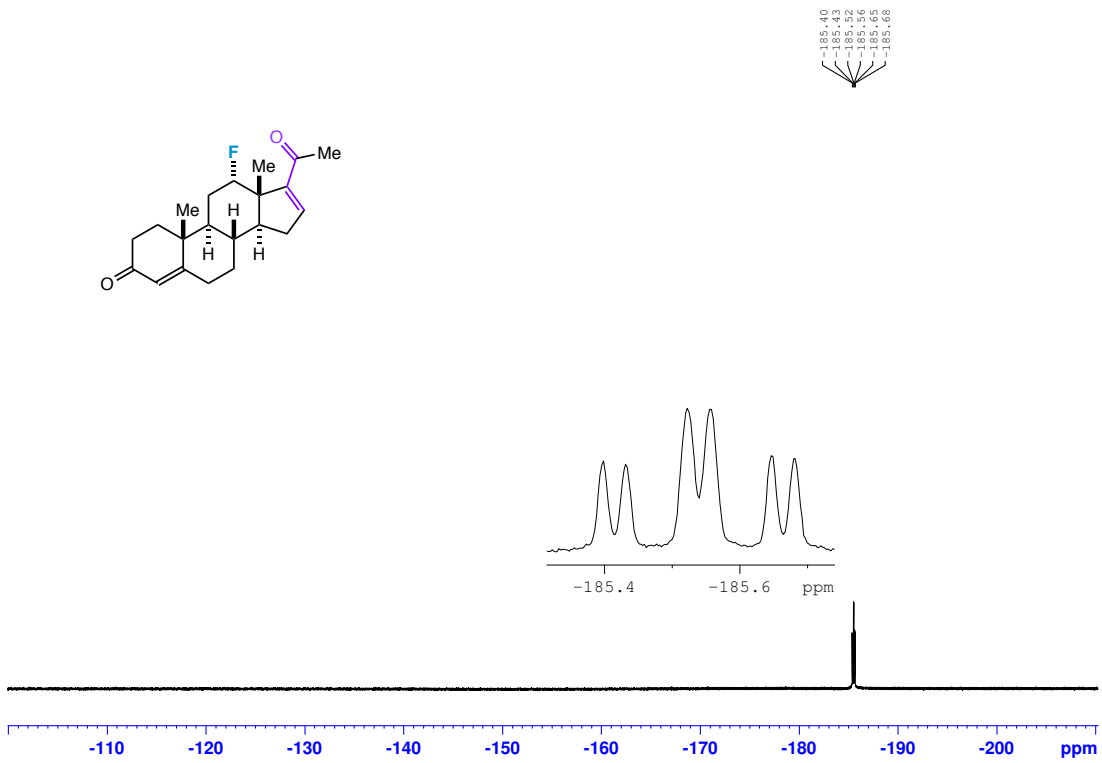

Fig. S28. ^{19}F NMR spectrum of compound **11** (major diastereomer).

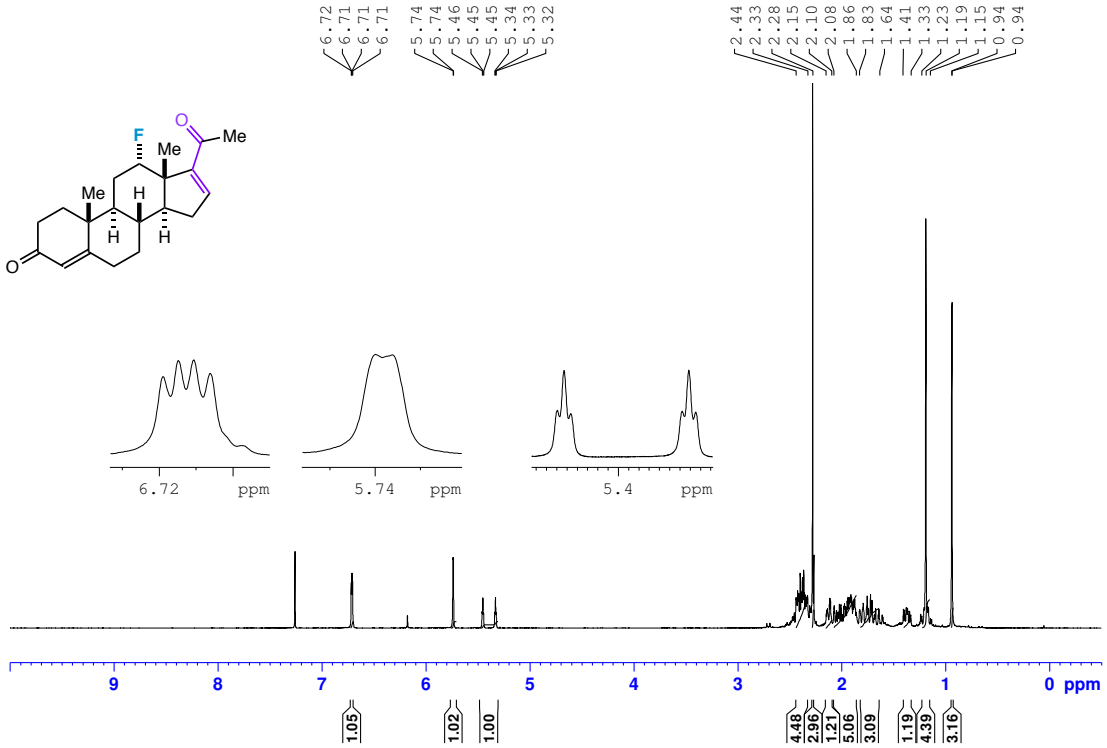

Fig. S29. ^{1}H NMR spectrum of compound **11** (major diastereomer).

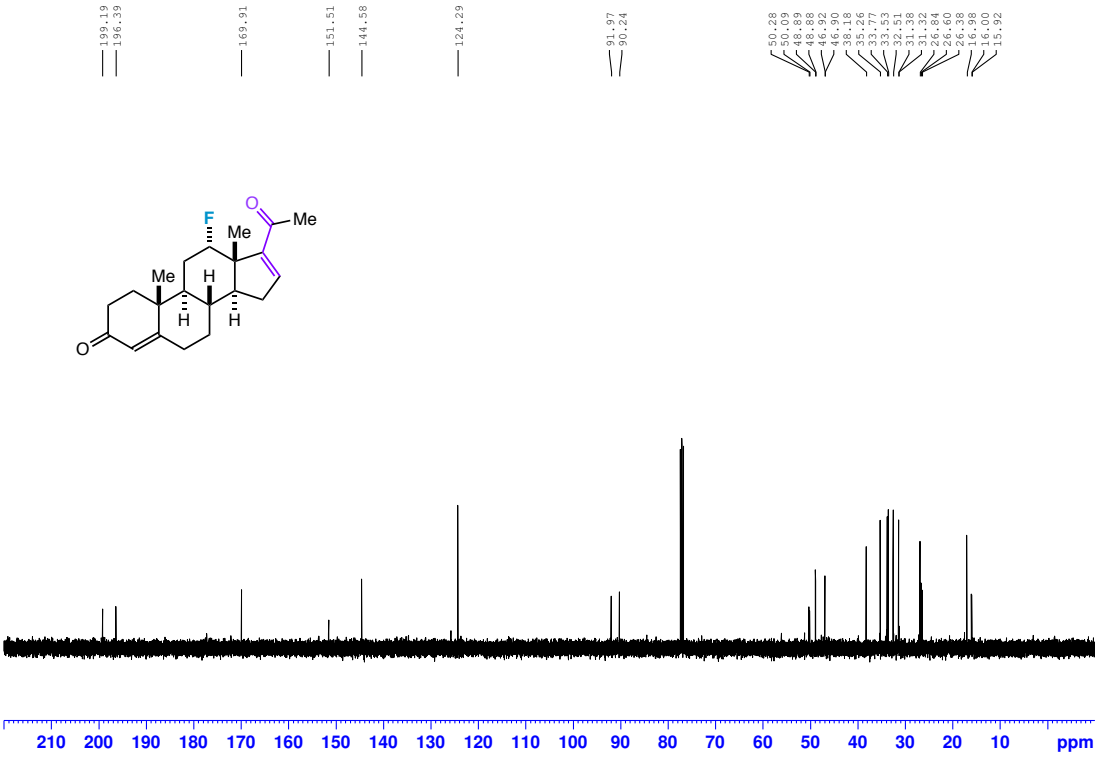

Fig. S30. $^{13}C\{^{1}H\}$ NMR spectrum of compound **11** (major diastereomer).

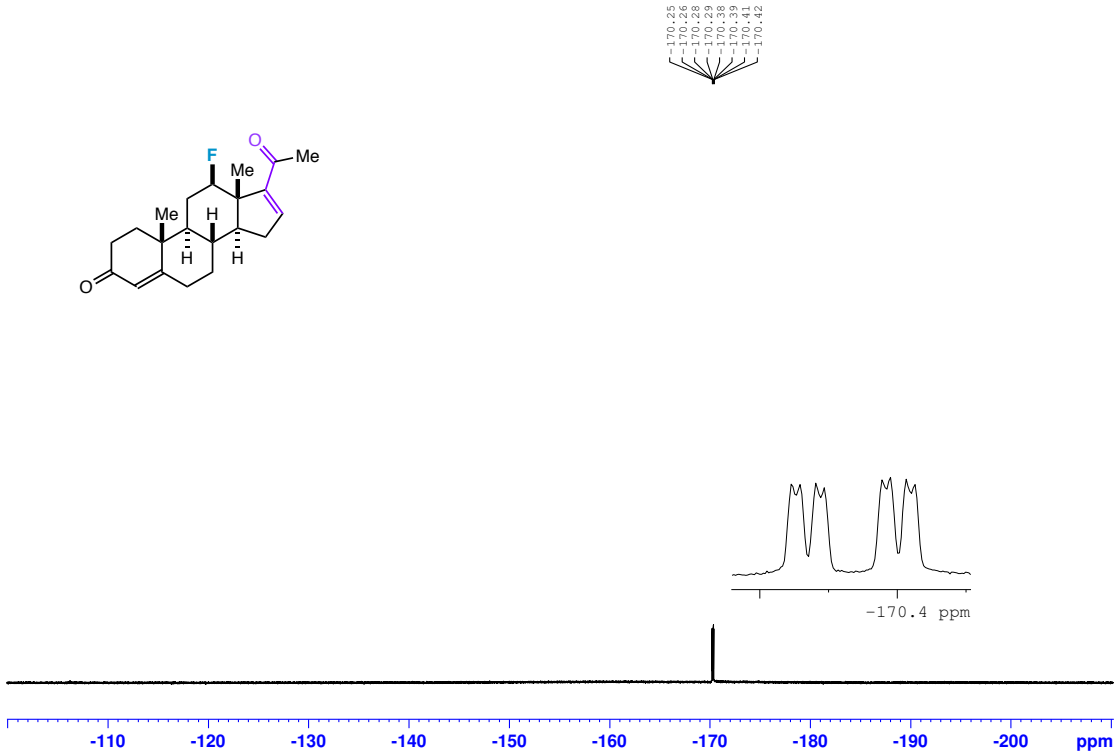

Fig. S31. ^{19}F NMR spectrum of compound **11** (minor diastereomer).

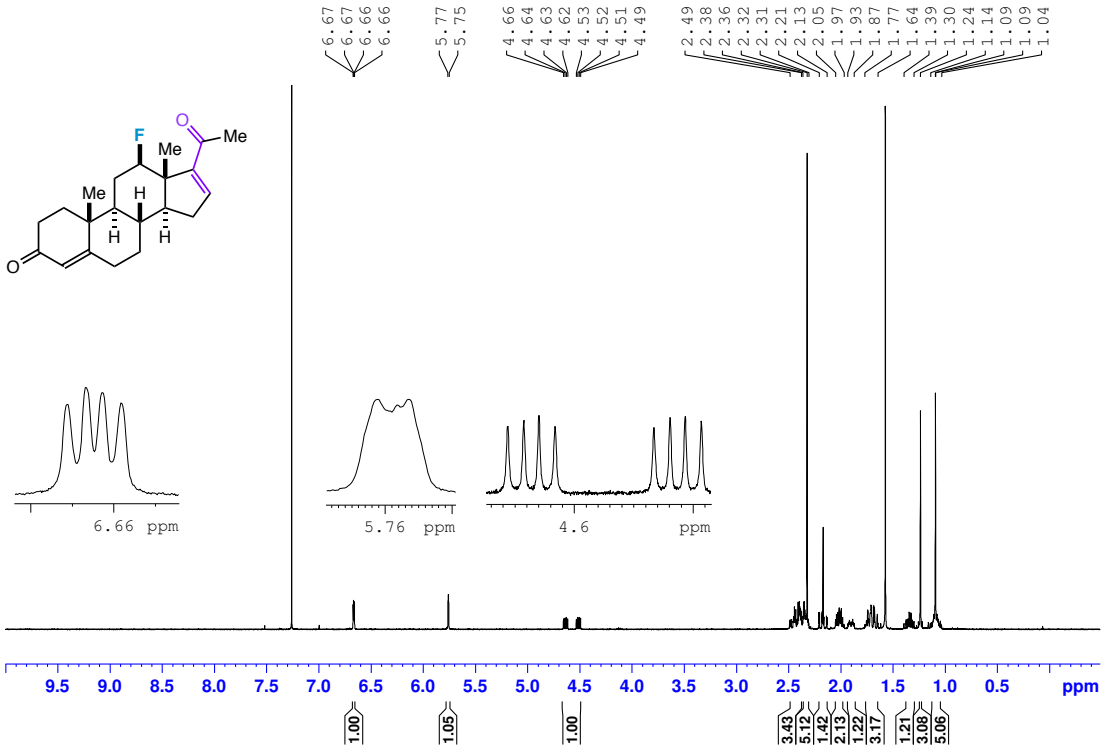

Fig. S32. ^{1}H NMR spectrum of compound **11** (minor diastereomer).

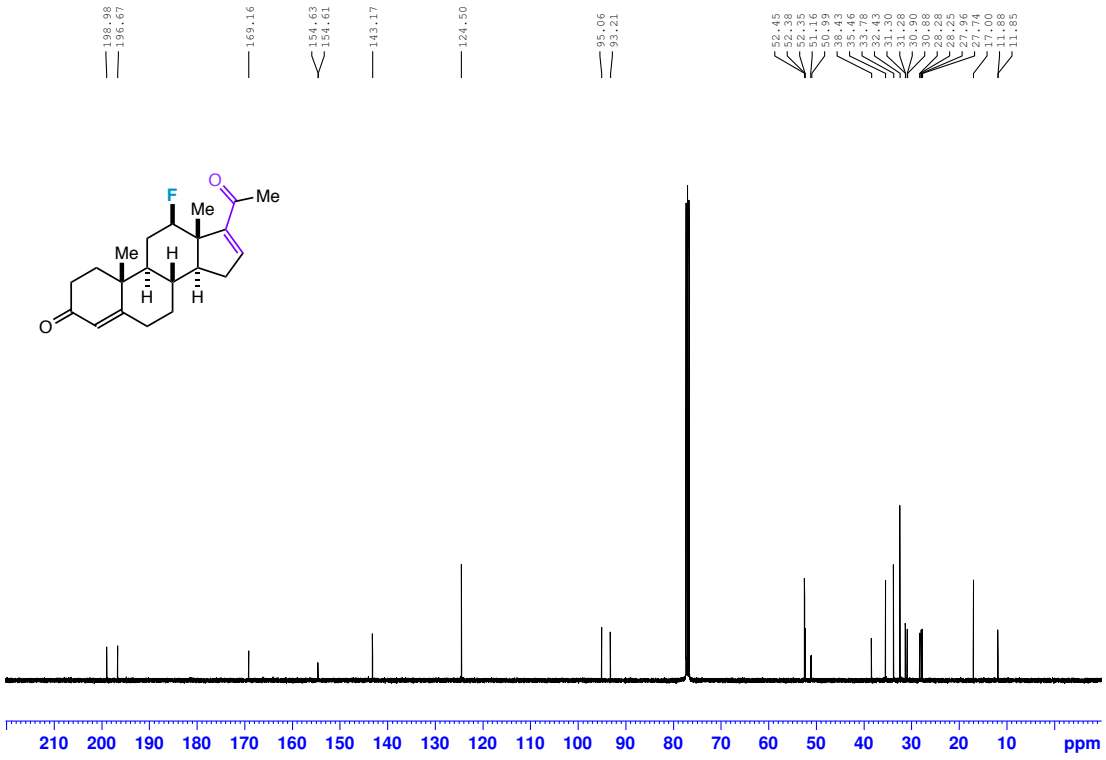

Fig. S33. $^{13}C\{^{1}H\}$ NMR spectrum of compound **11** (minor diastereomer).

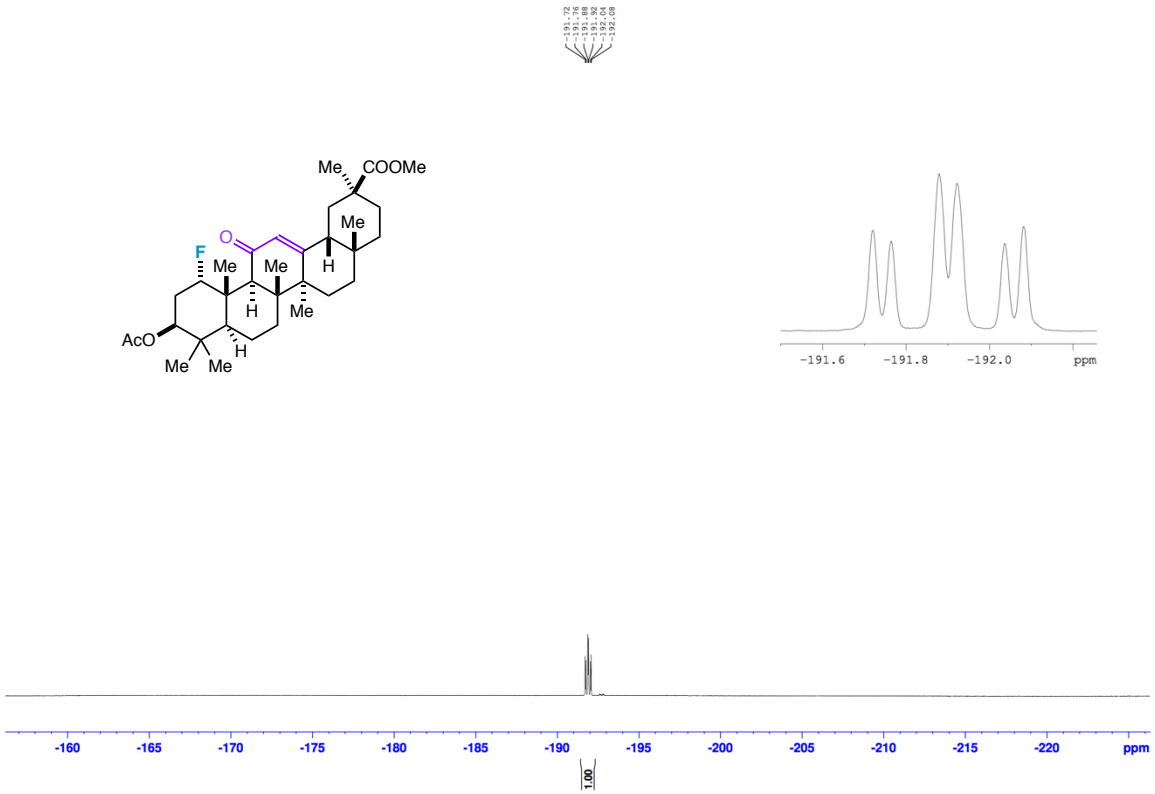

Fig. S34. ^{19}F NMR spectrum of compound **12** (major diastereomer).

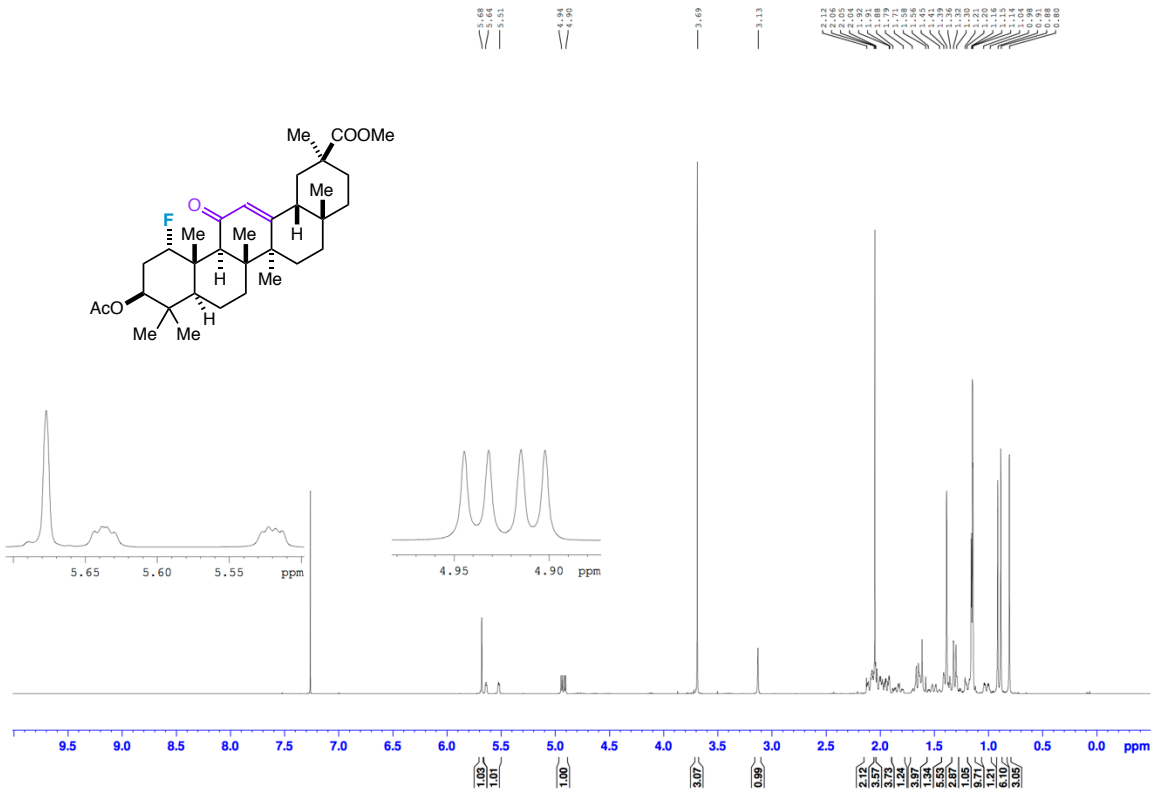

Fig. S35. ^{1}H NMR spectrum of compound **12** (major diastereomer).

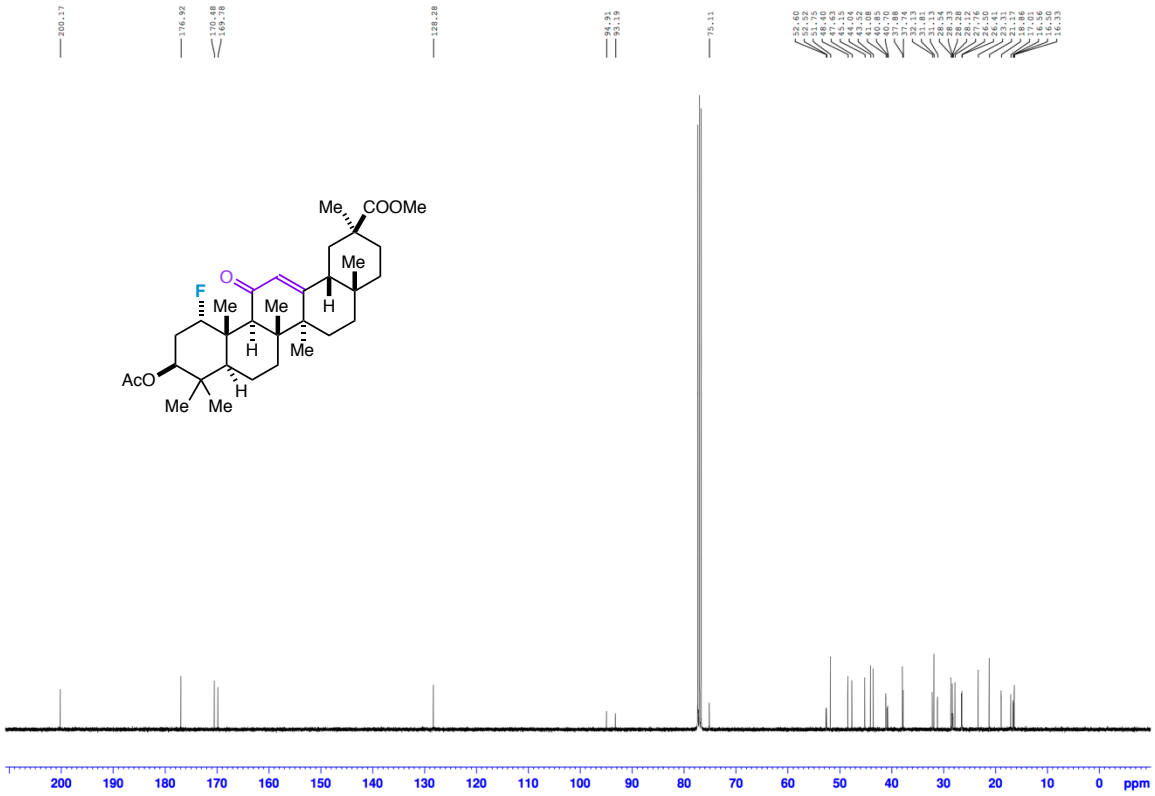

Fig. S36. $^{13}C\{^{1}H\}$ NMR spectrum of compound **12** (major diastereomer).

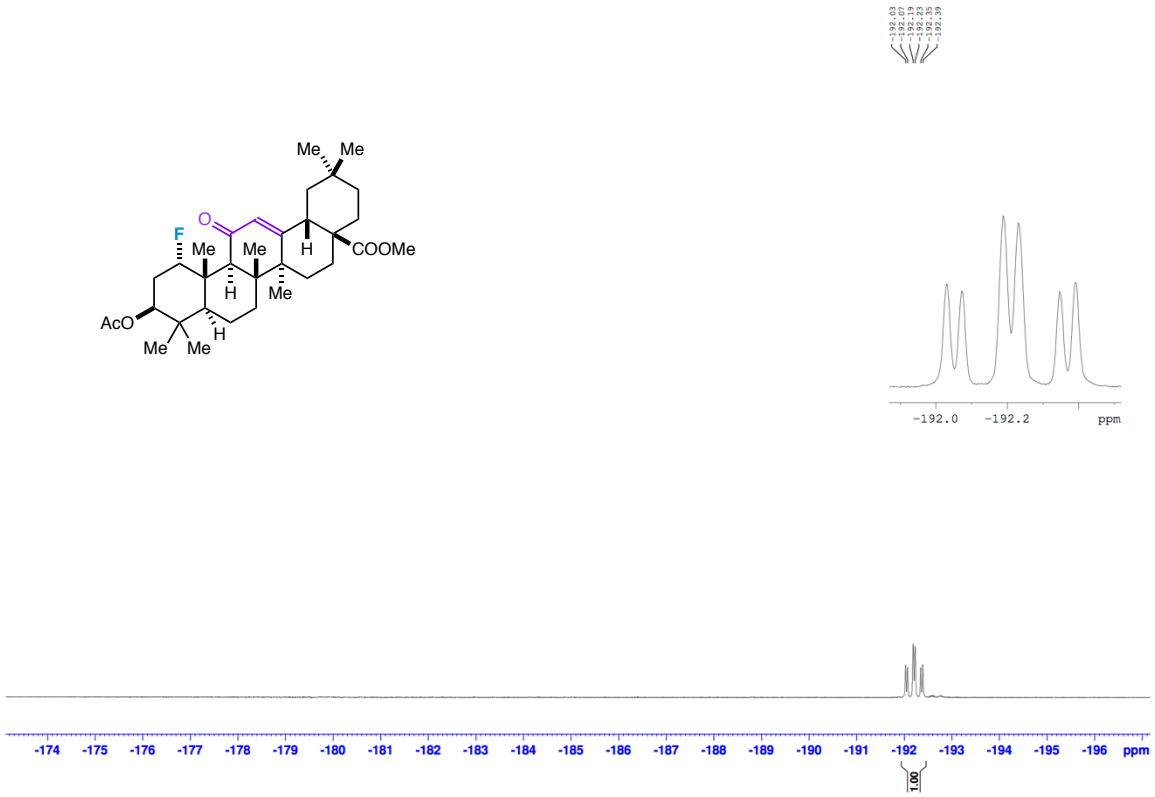

Fig. S37. ^{19}F NMR spectrum of compound **13** (major diastereomer).

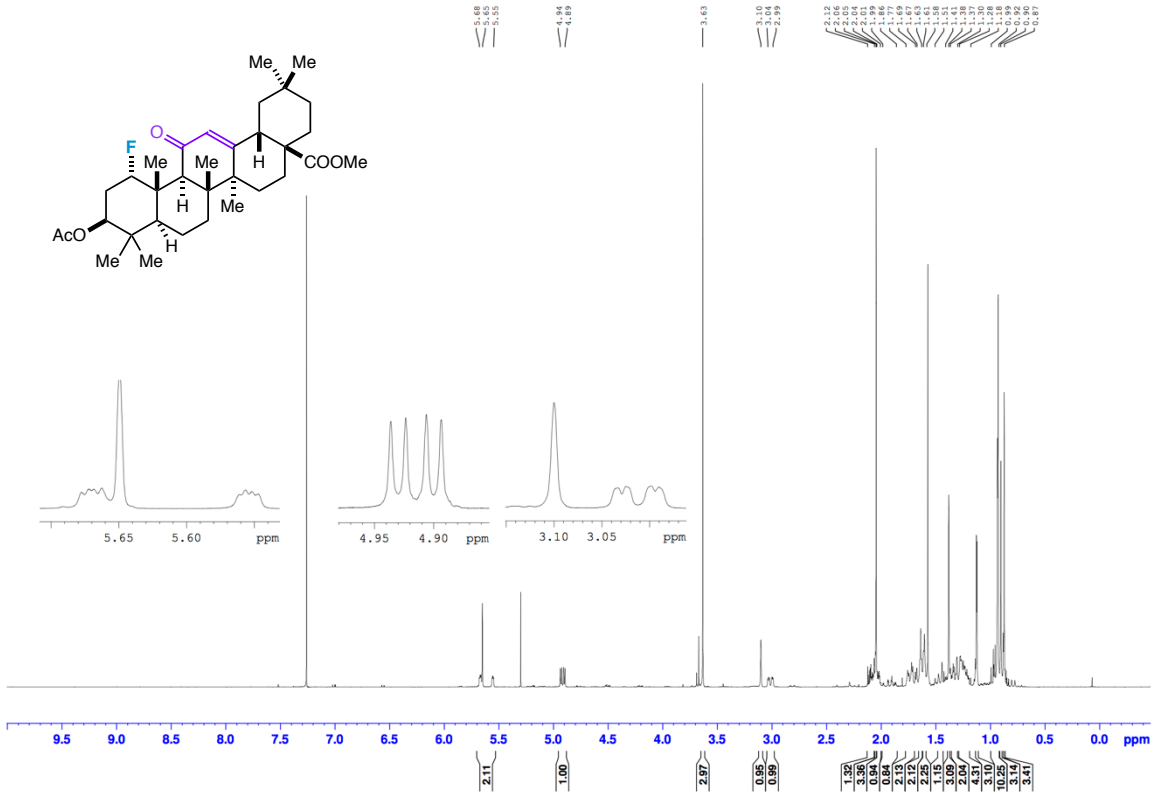

Fig. S38. ^{1}H NMR spectrum of compound **13** (major diastereomer).

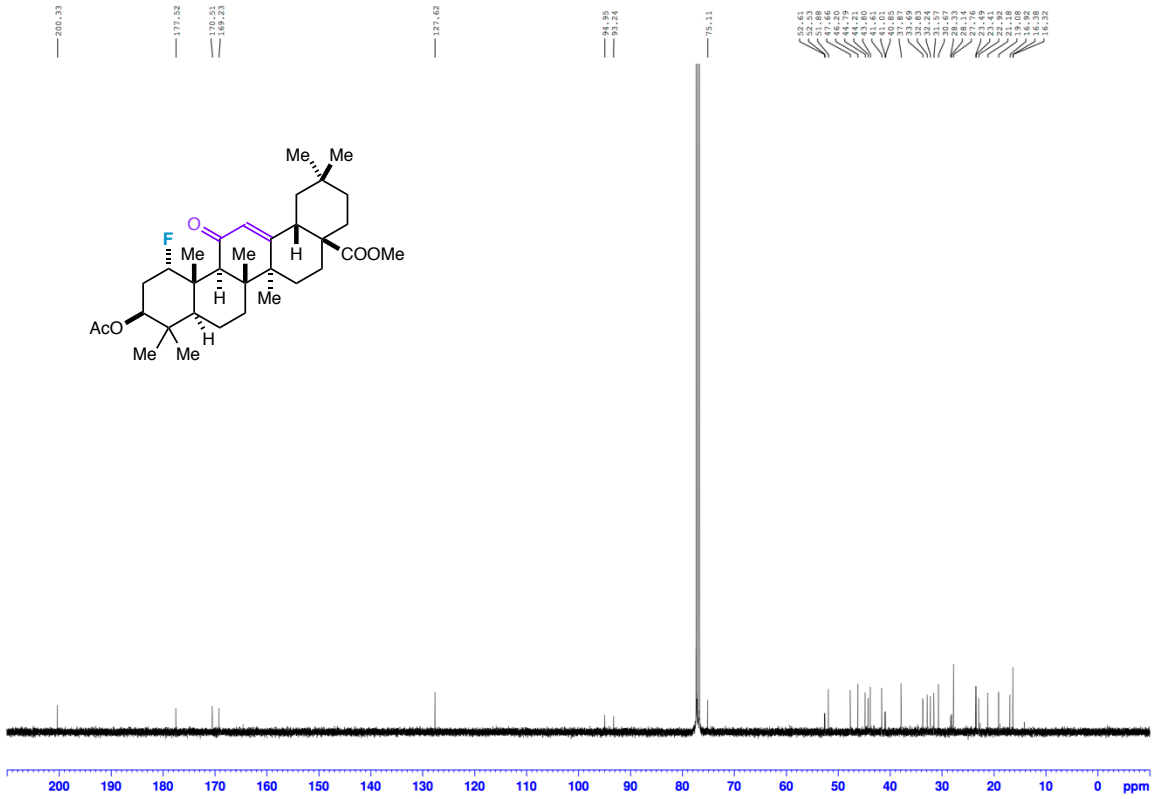

Fig. S39. $^{13}C\{^{1}H\}$ NMR spectrum of compound **13** (major diastereomer).

NMR Spectral Data of Starting Materials

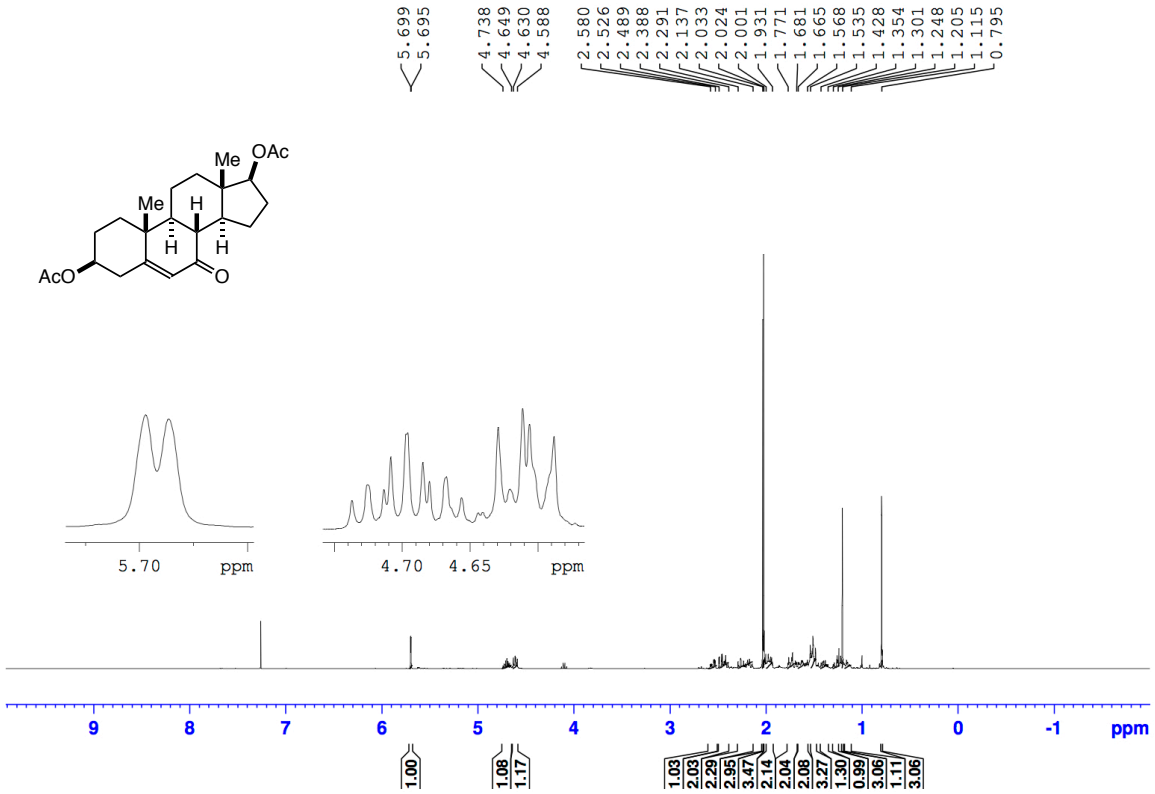

Fig. S40. ^{1}H NMR spectrum of starting material for compound **2**.

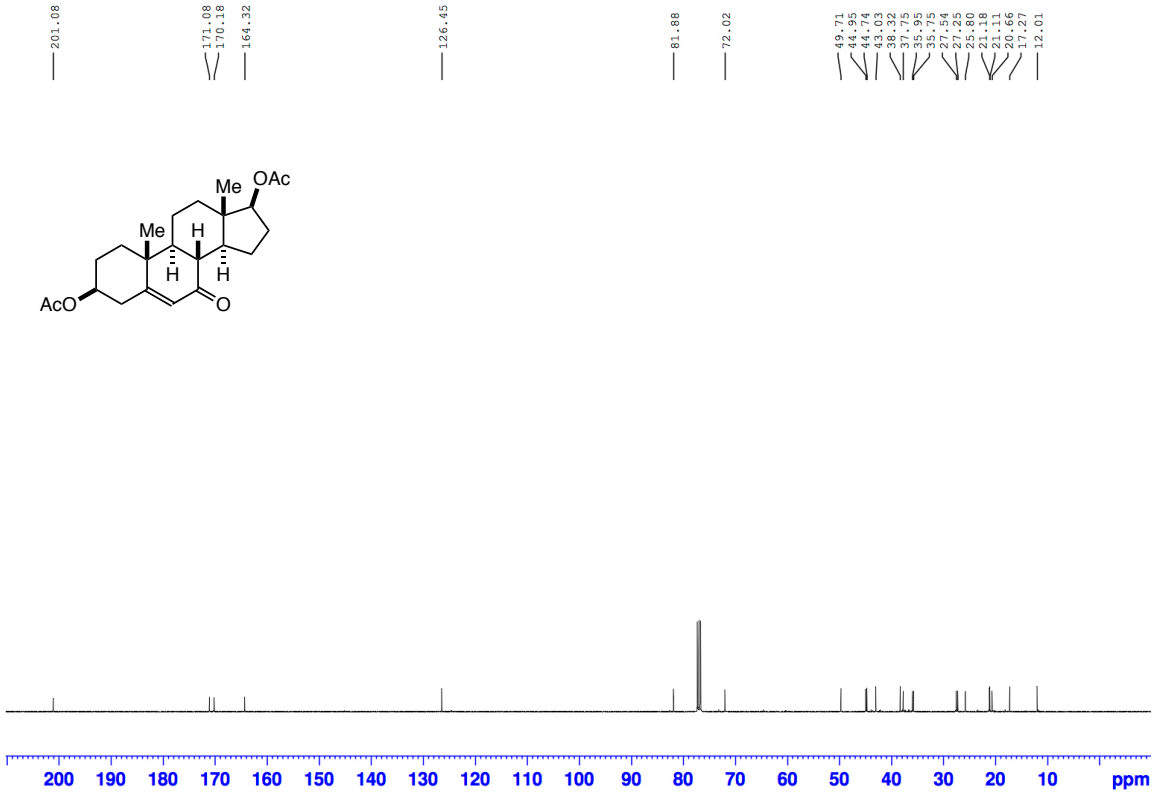

Fig. S41. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **2**.

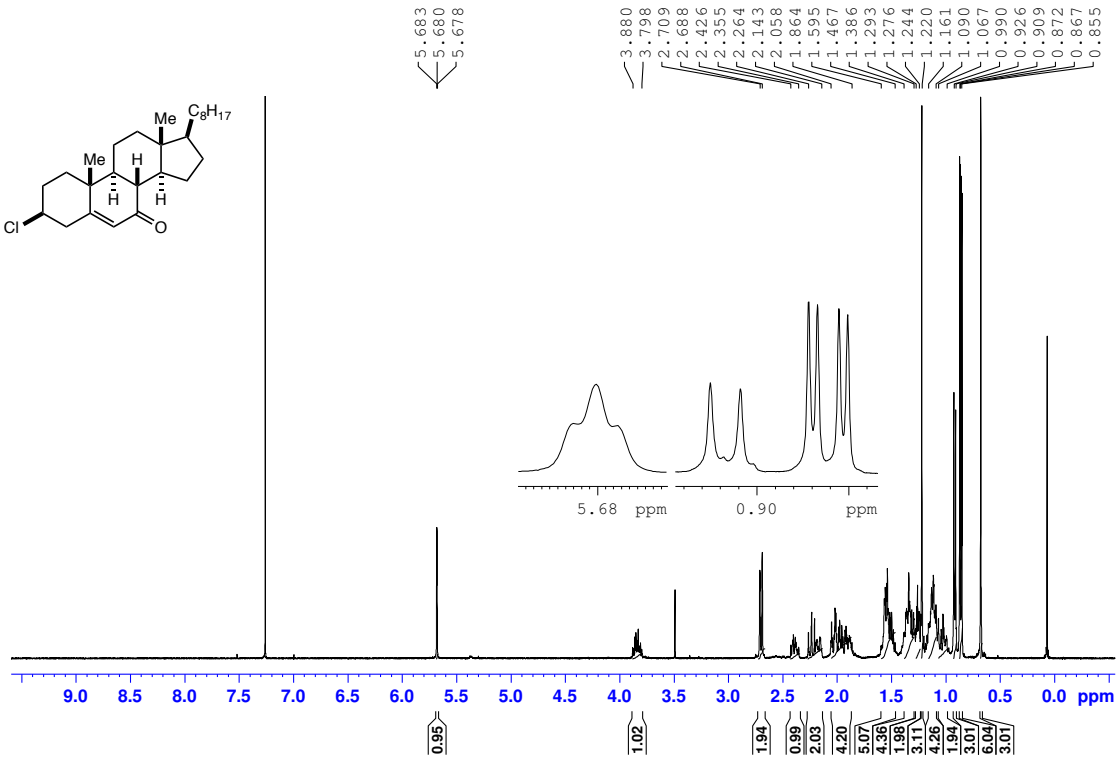

Fig. S42. ^{1}H NMR spectrum of starting material for compound **3**.

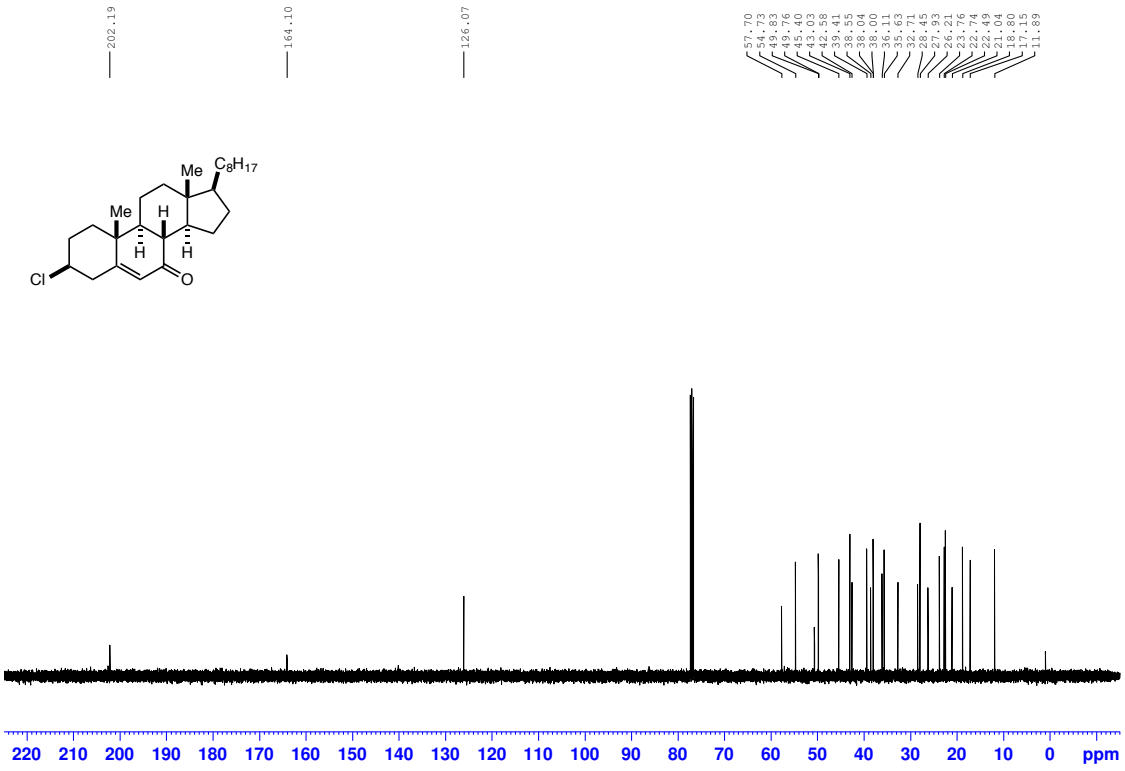

Fig. S43. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **3**.

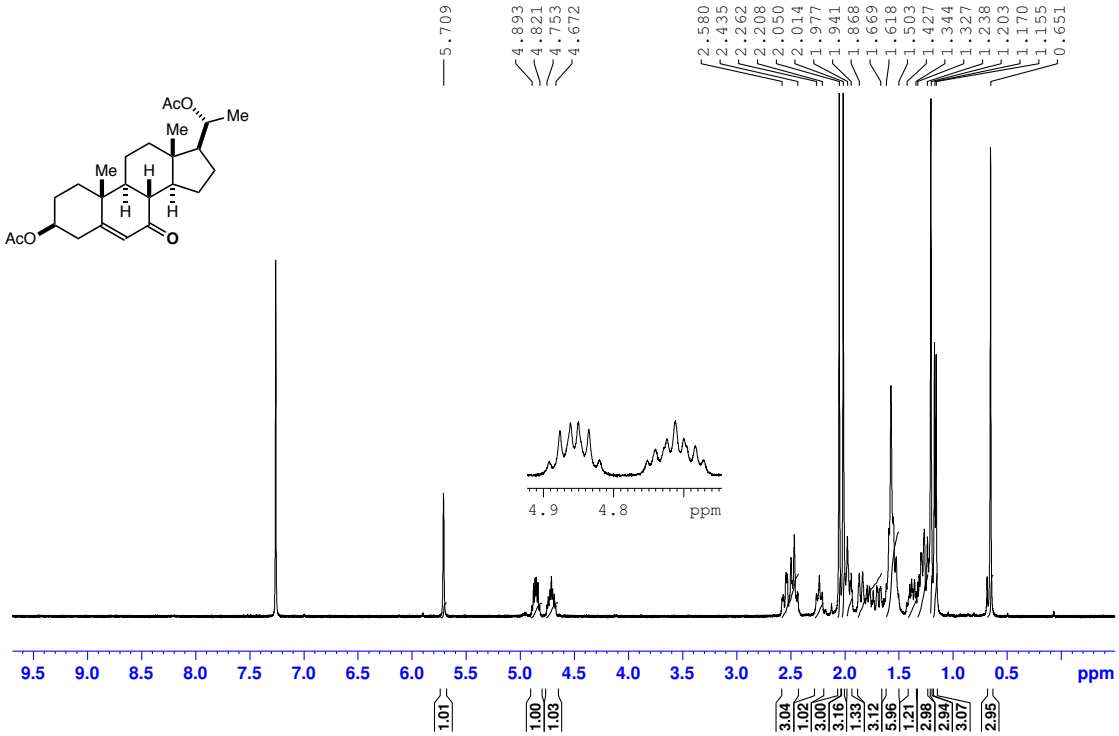

Fig. S44. ^{1}H NMR spectrum of starting material for compound **4**.

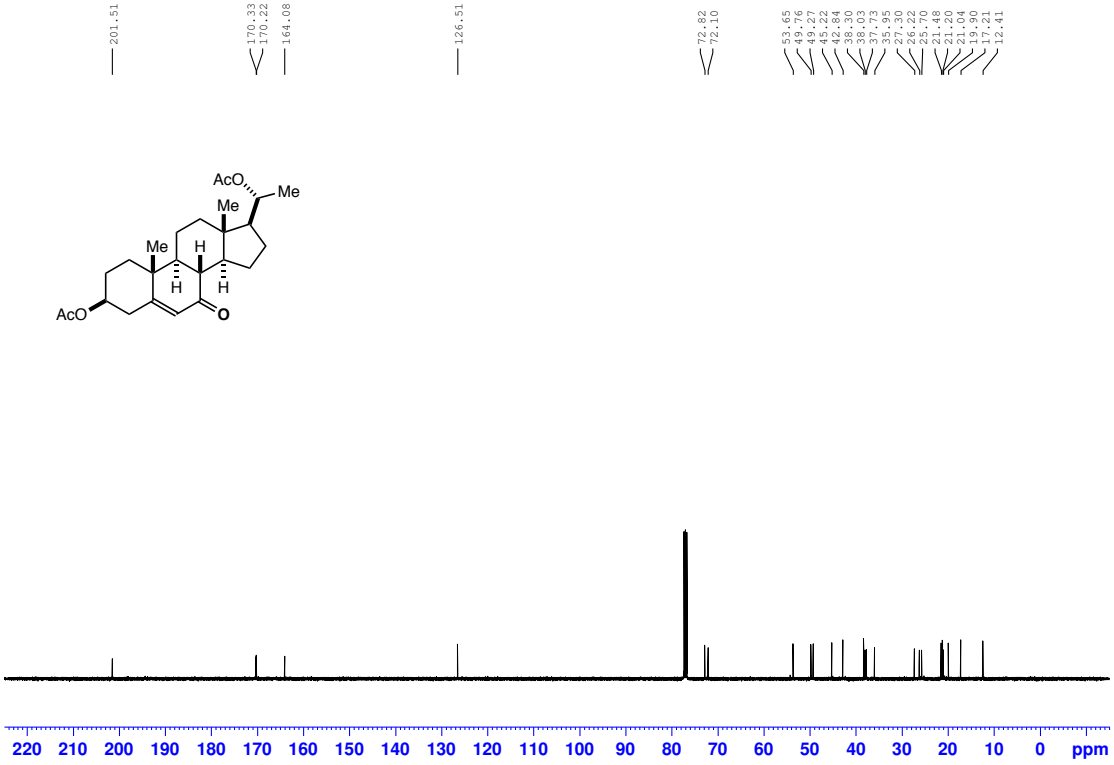

Fig. S45. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **4**.

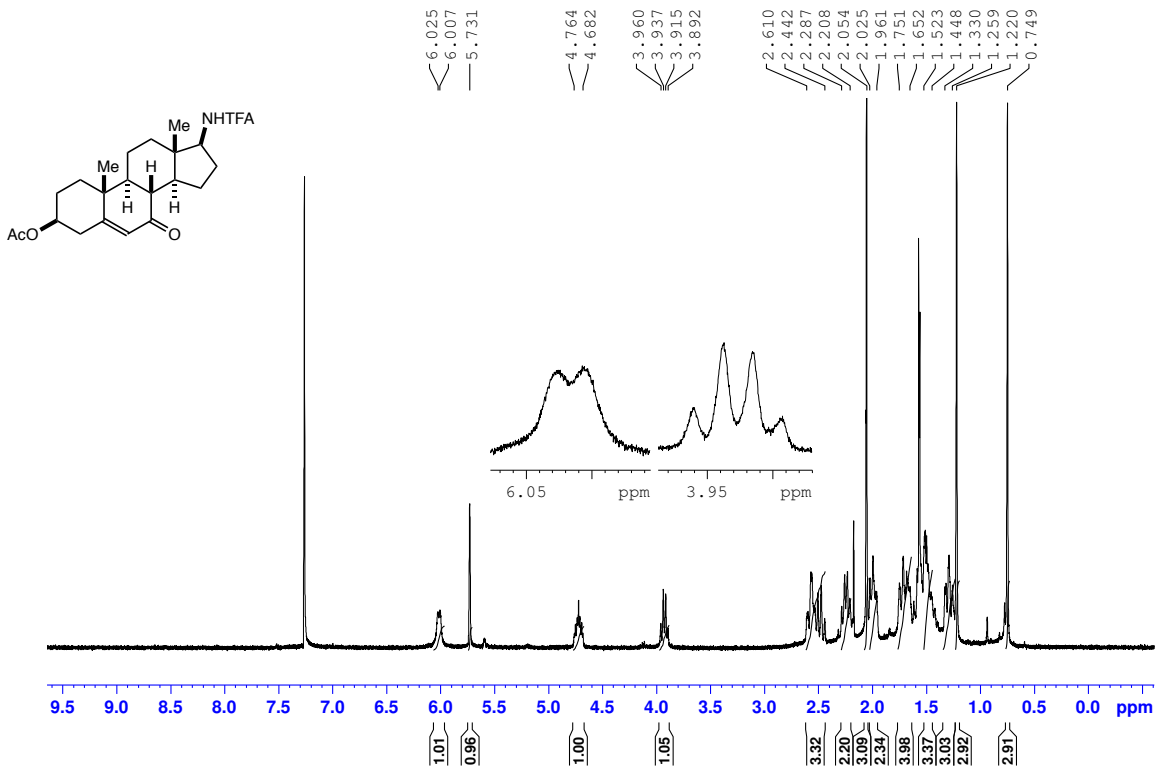

Fig. S46. ^{1}H NMR spectrum of starting material for compound **5**.

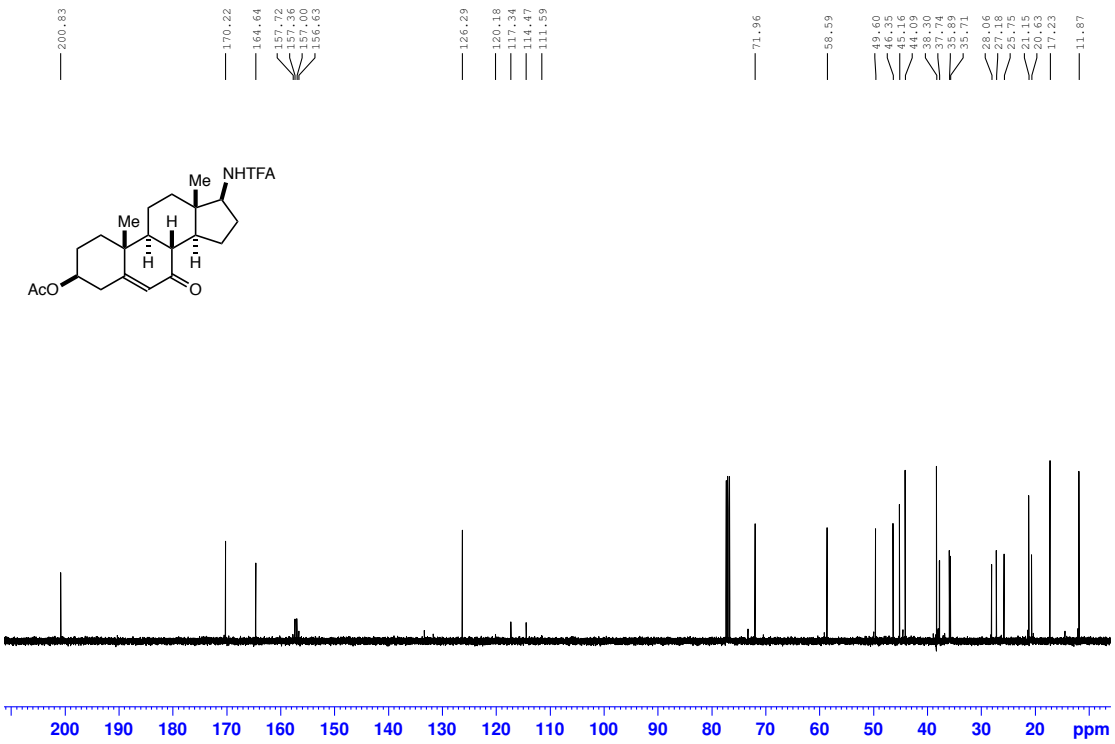

Fig. S47. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **5**.

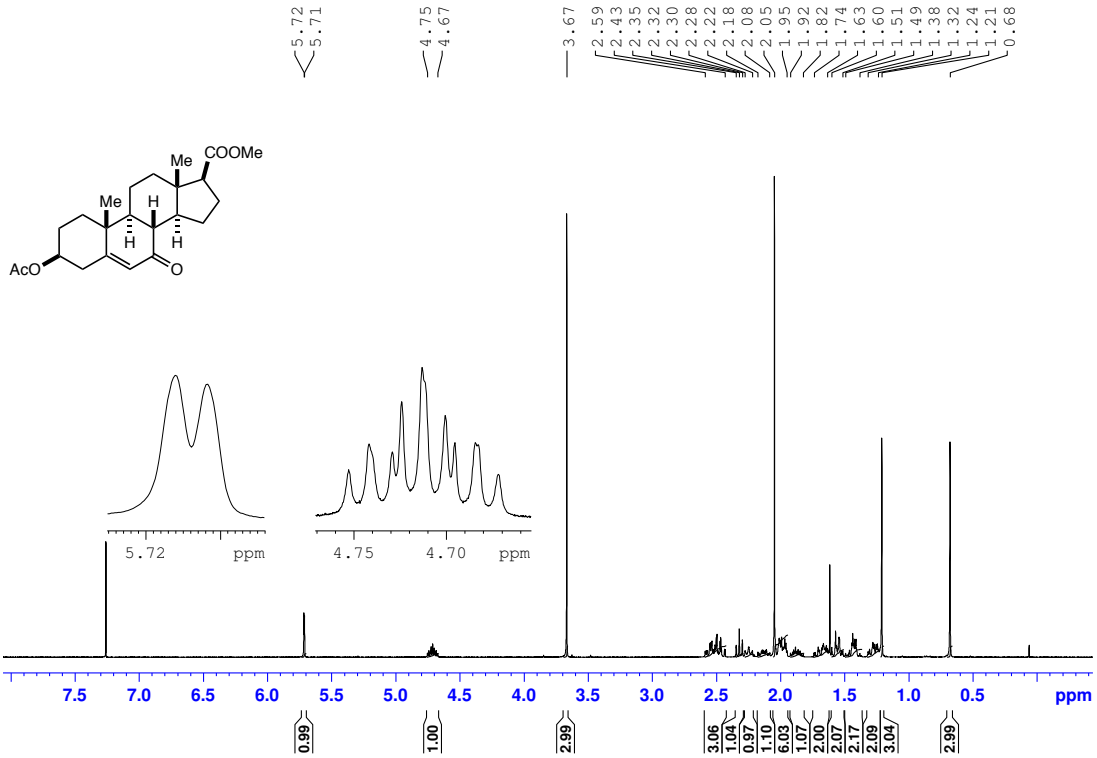

Fig. S48. ^{1}H NMR spectrum of starting material for compound **6**.

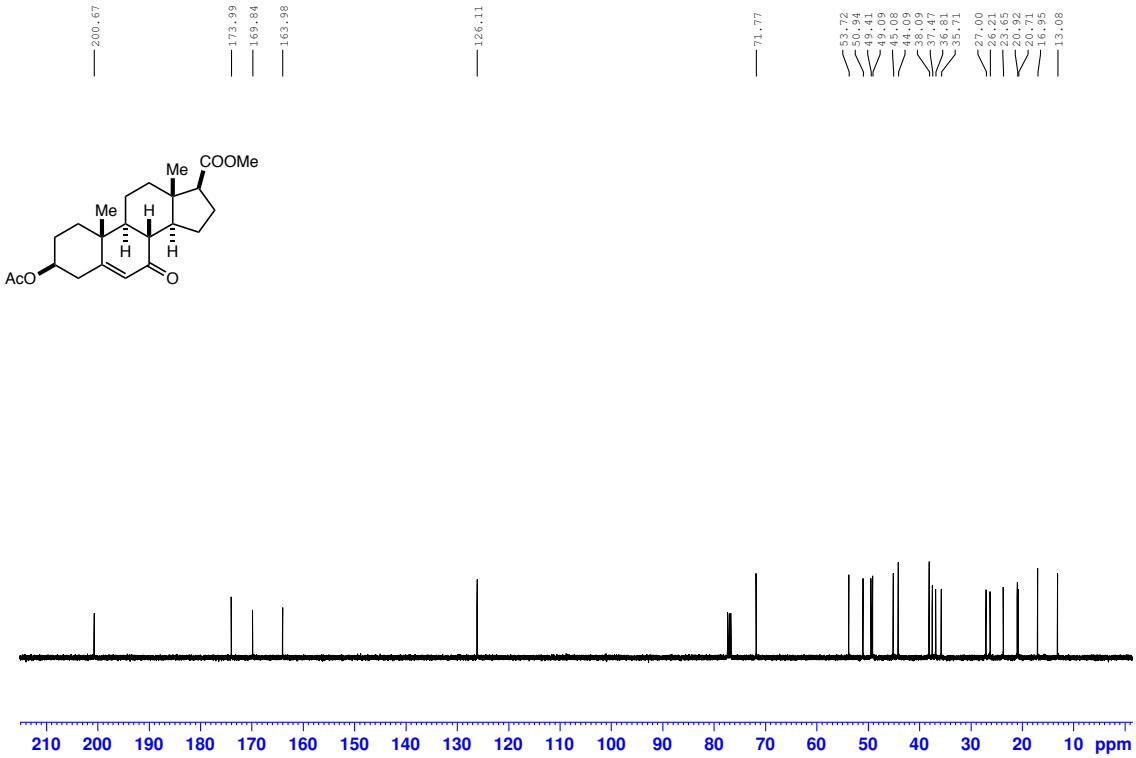

Fig. S49. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **6**.

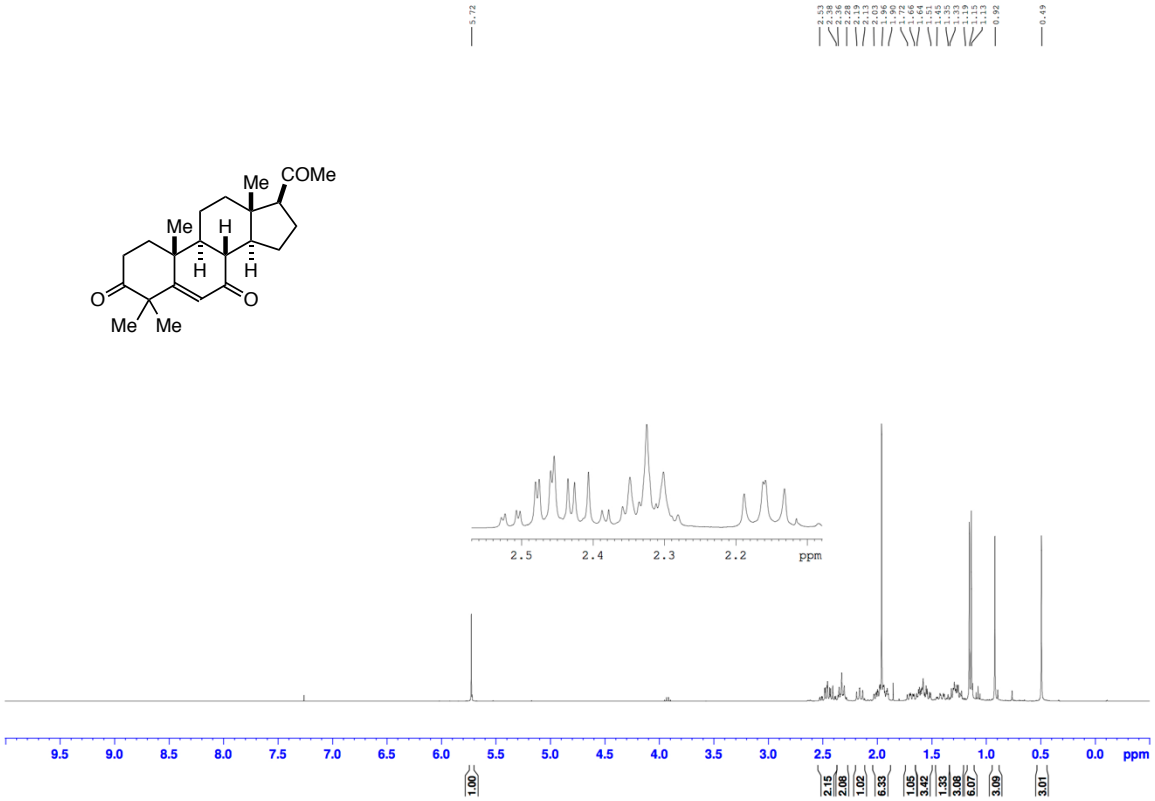

Fig. S50. ^{1}H NMR spectrum of starting material for compound **7**.

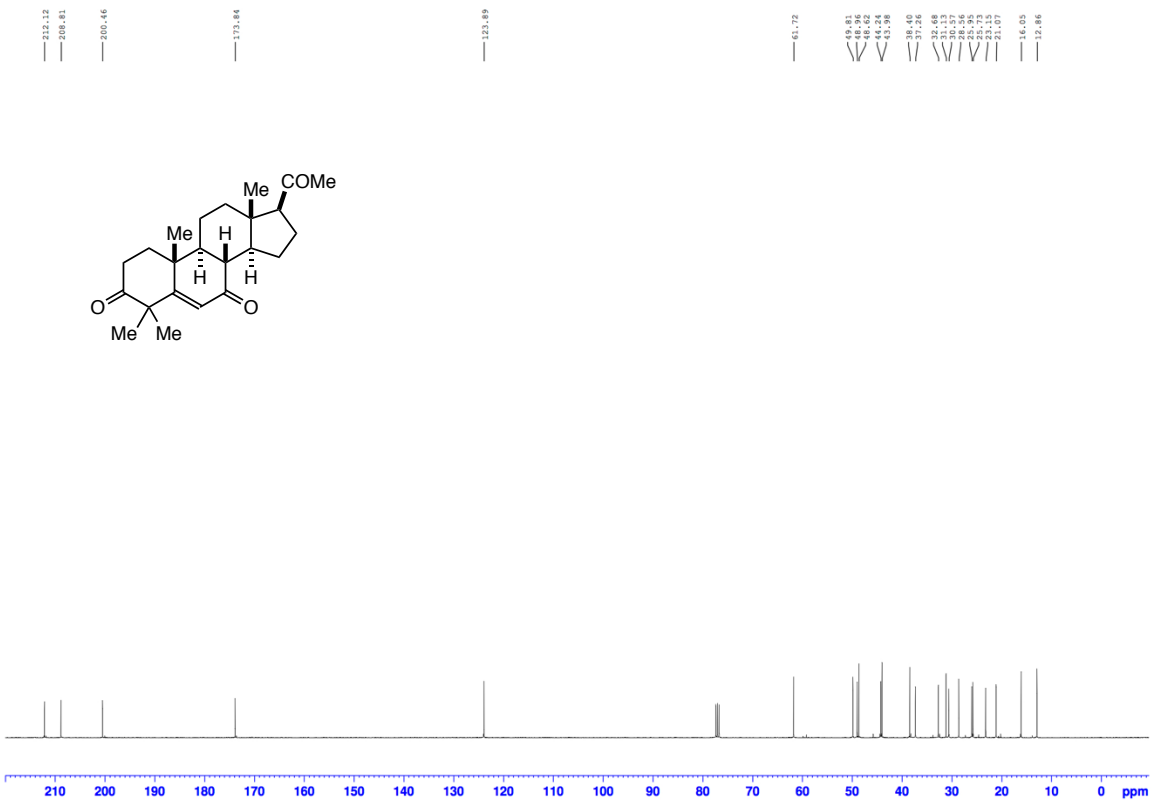

Fig. S51. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **7**.

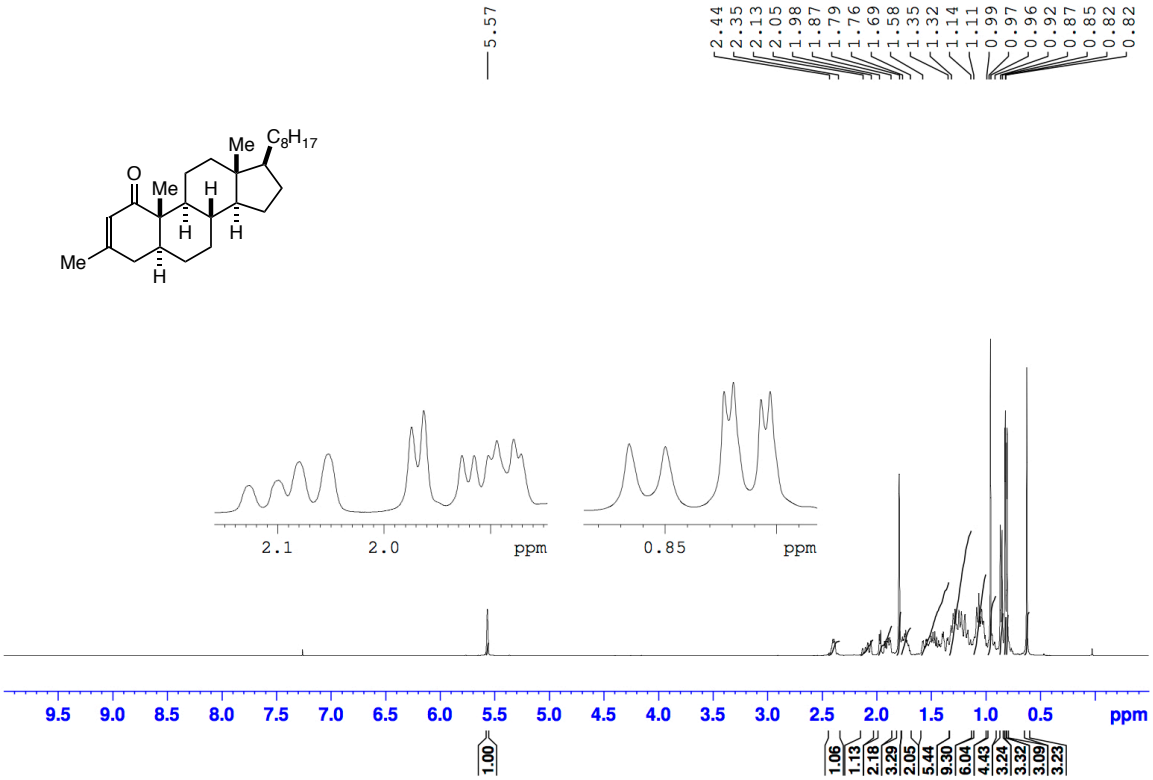

Fig. S52. ^{1}H NMR spectrum of starting material for compound **8**.

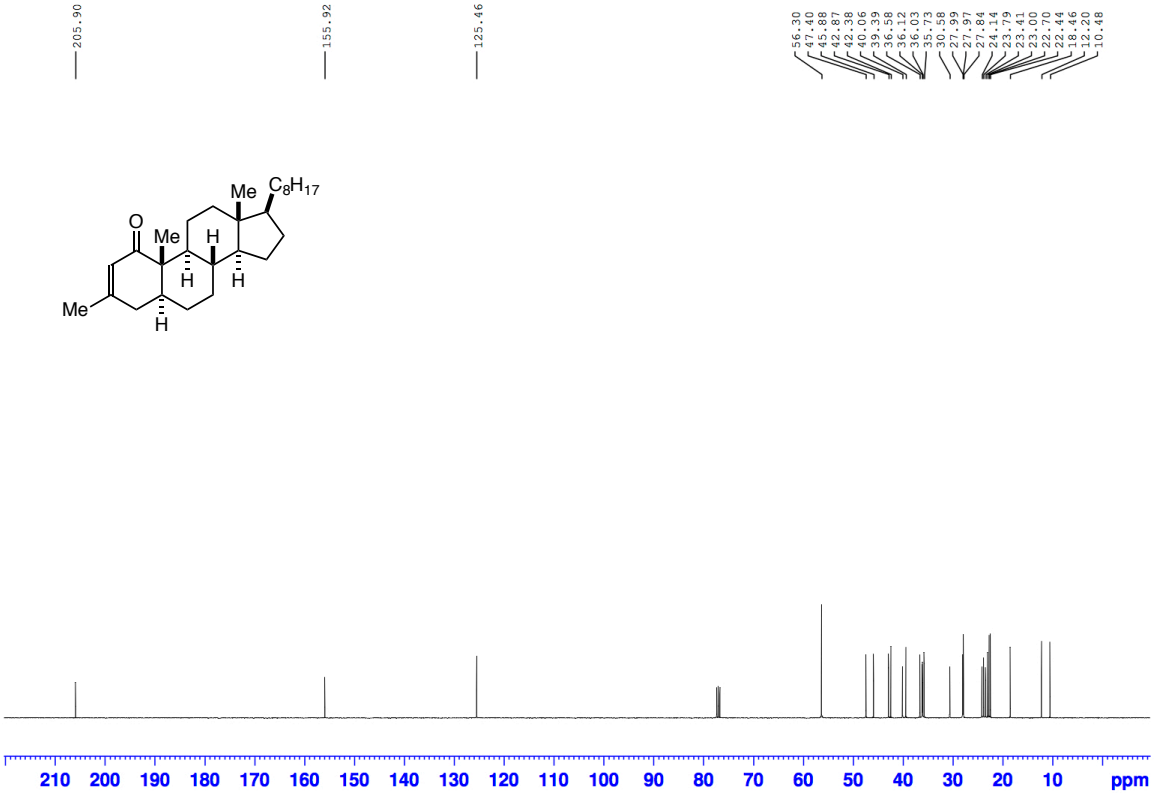

Fig. S53. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **8**.

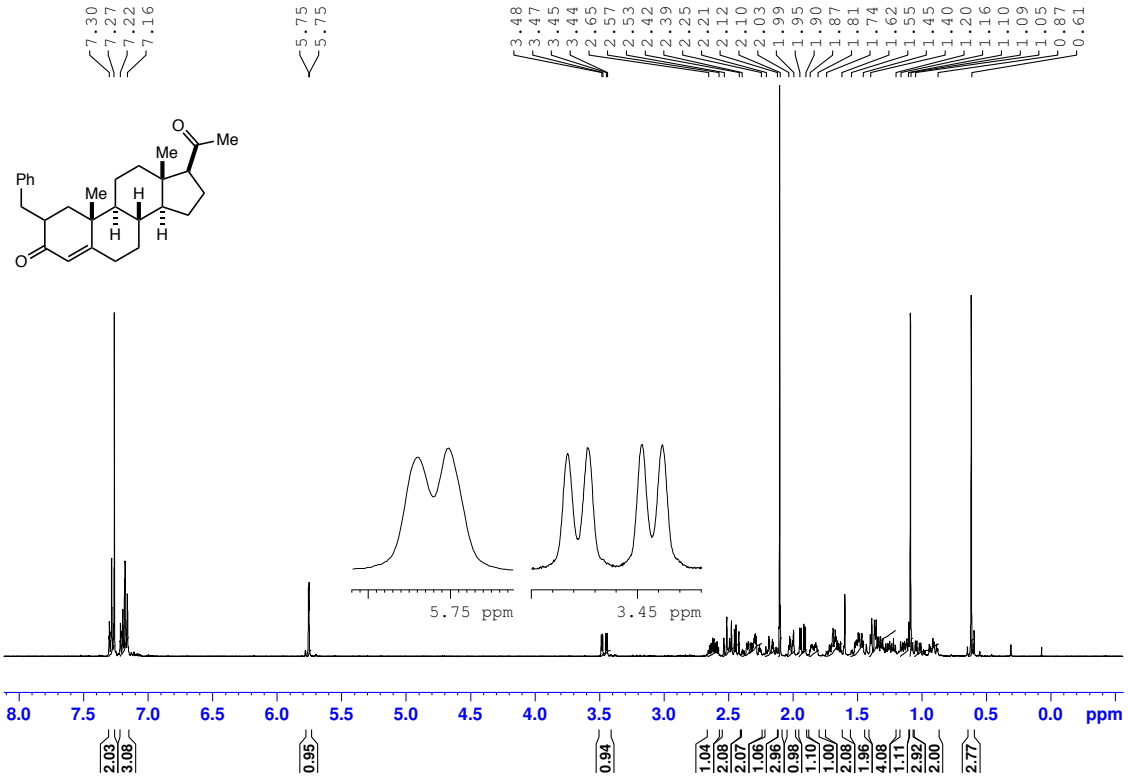

Fig. S54. ^{1}H NMR spectrum of starting material for compound **9**.

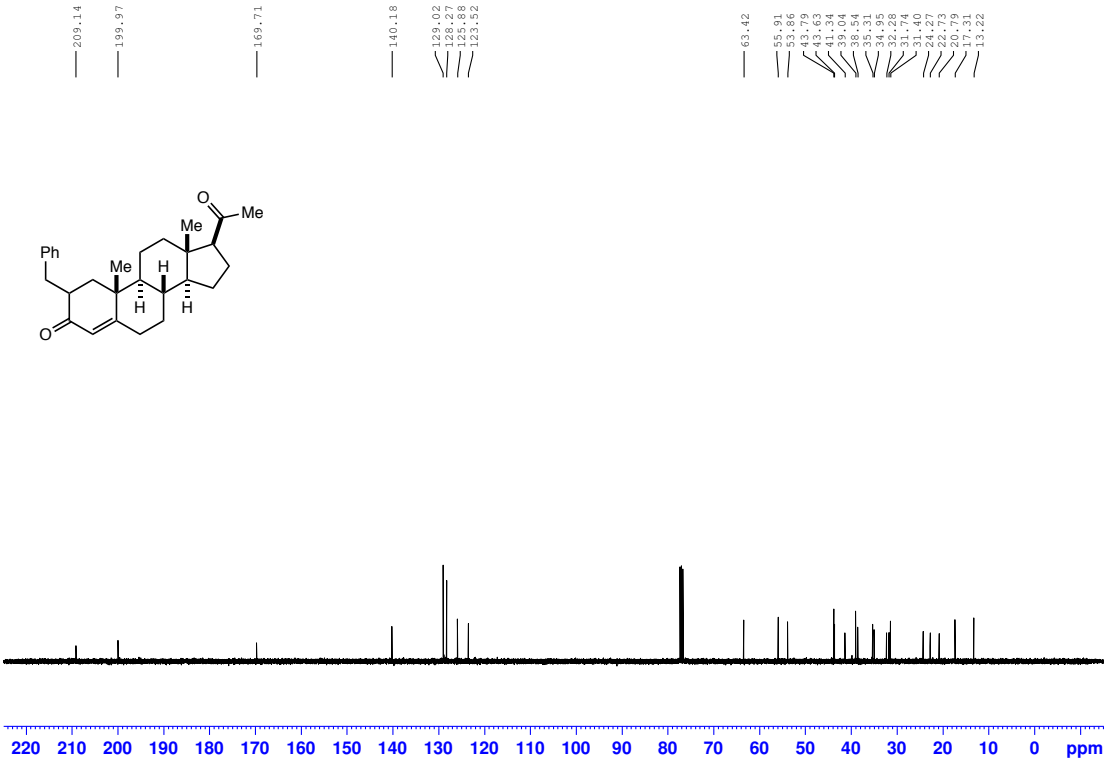

Fig. S55. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **9**.

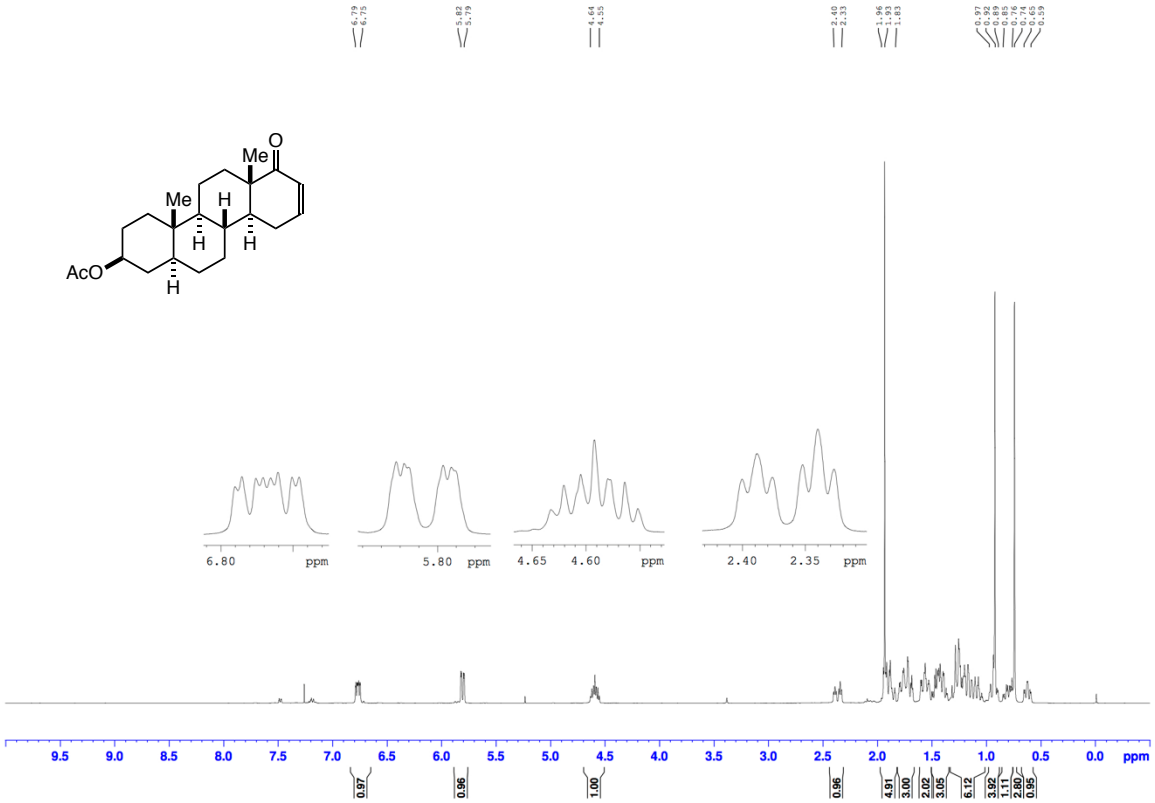

Fig. S56. ^{1}H NMR spectrum of starting material for compound **10**.

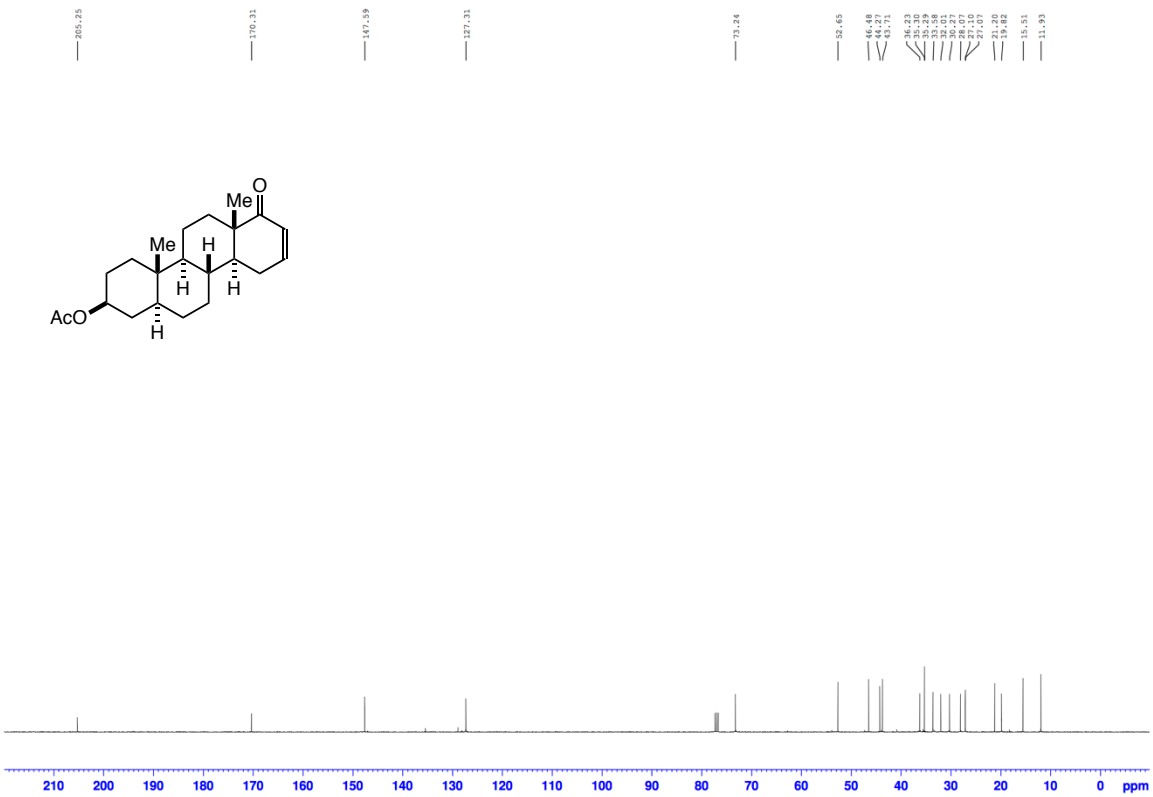

Fig. S57. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **10**.

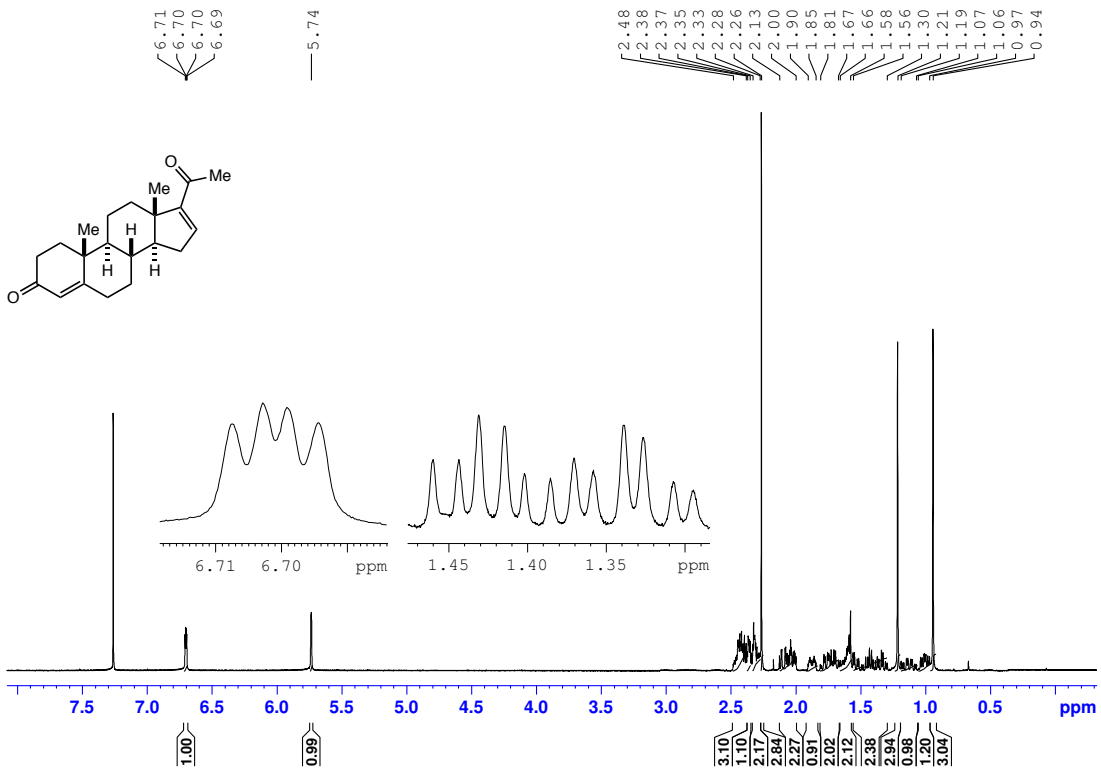

Fig. S58. ^{1}H NMR spectrum of starting material for compound **11**.

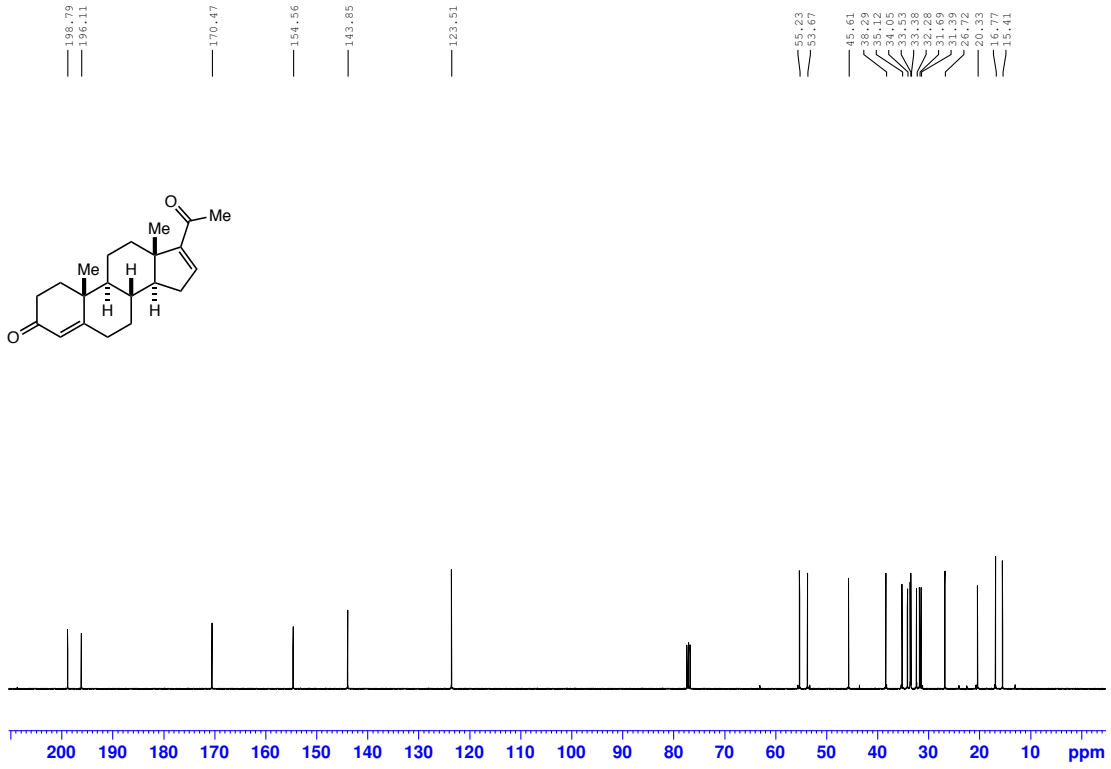

Fig. S59. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **11**.

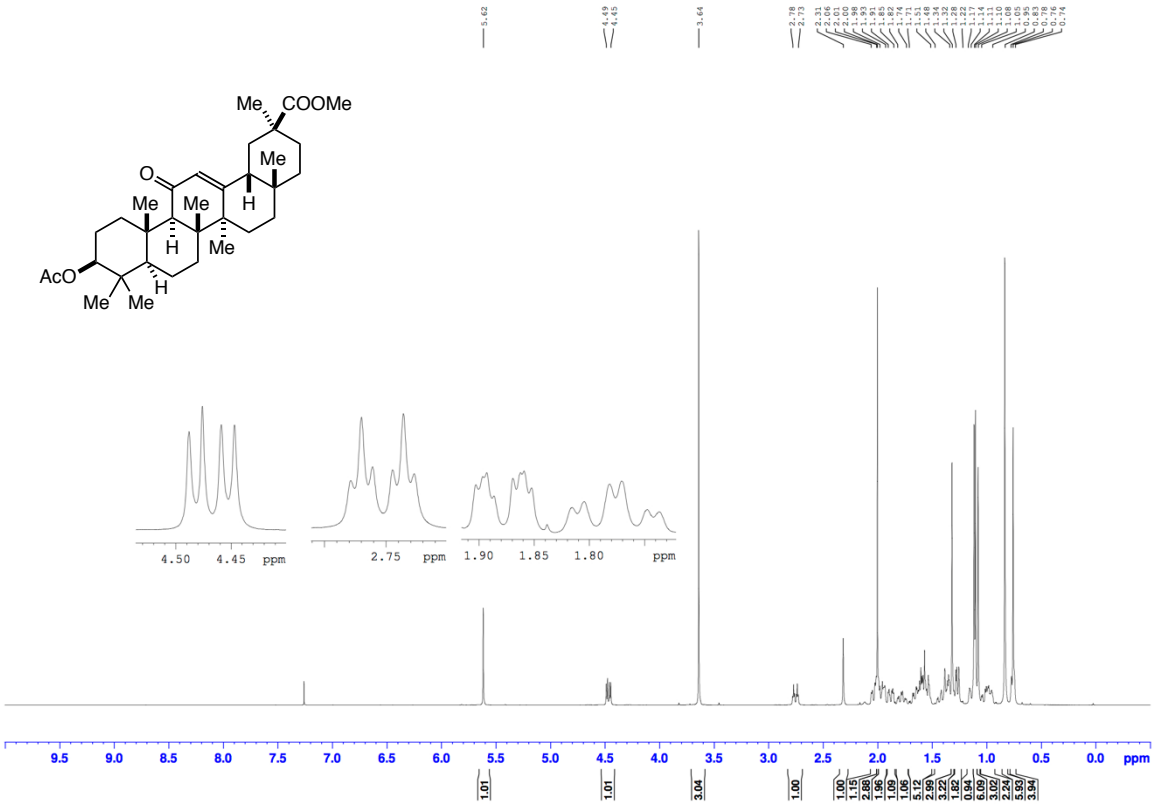

Fig. S60. ^{1}H NMR spectrum of starting material for compound **12**.

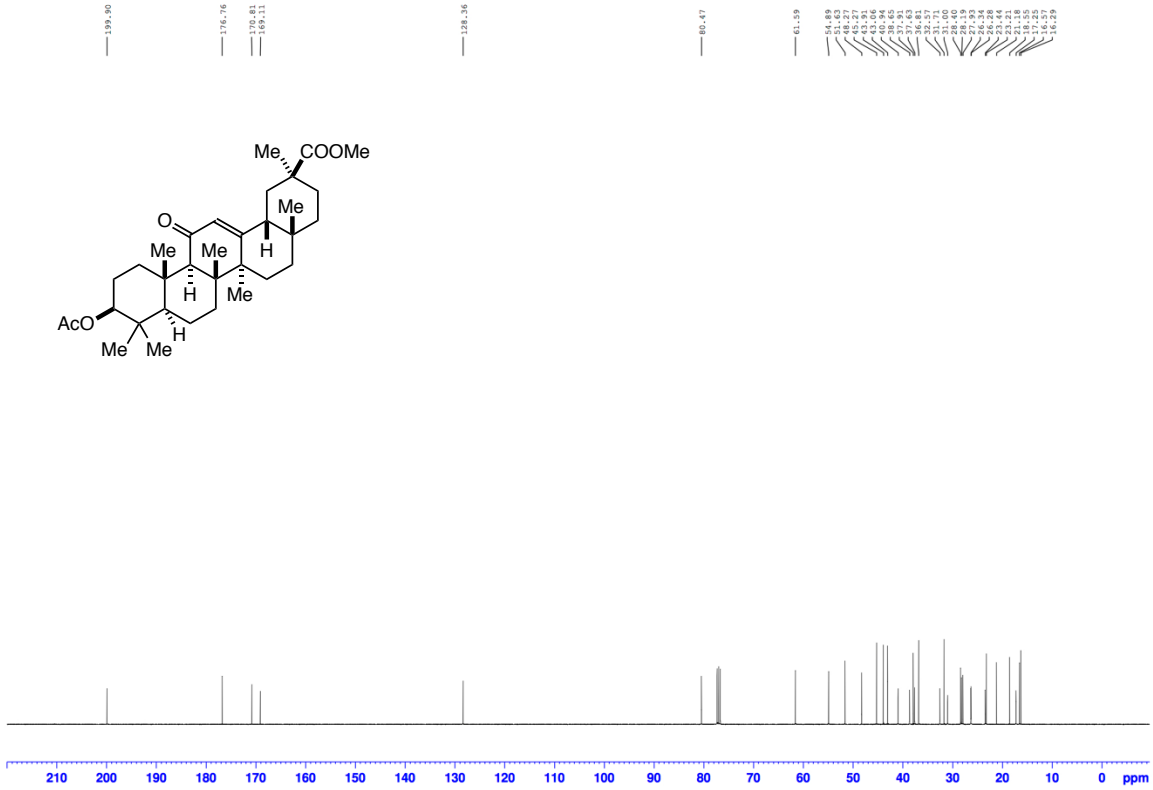

Fig. S61. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **12**.

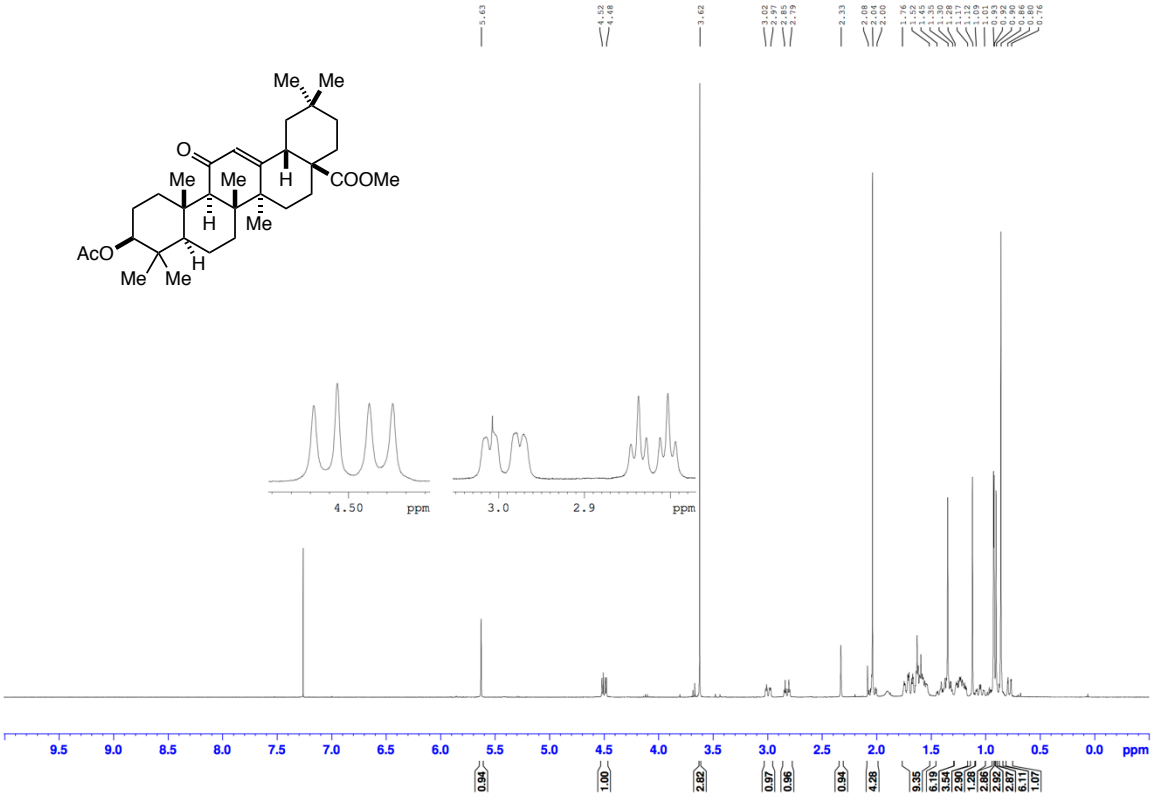

Fig. S62. ^{1}H NMR spectrum of starting material for compound **13**.

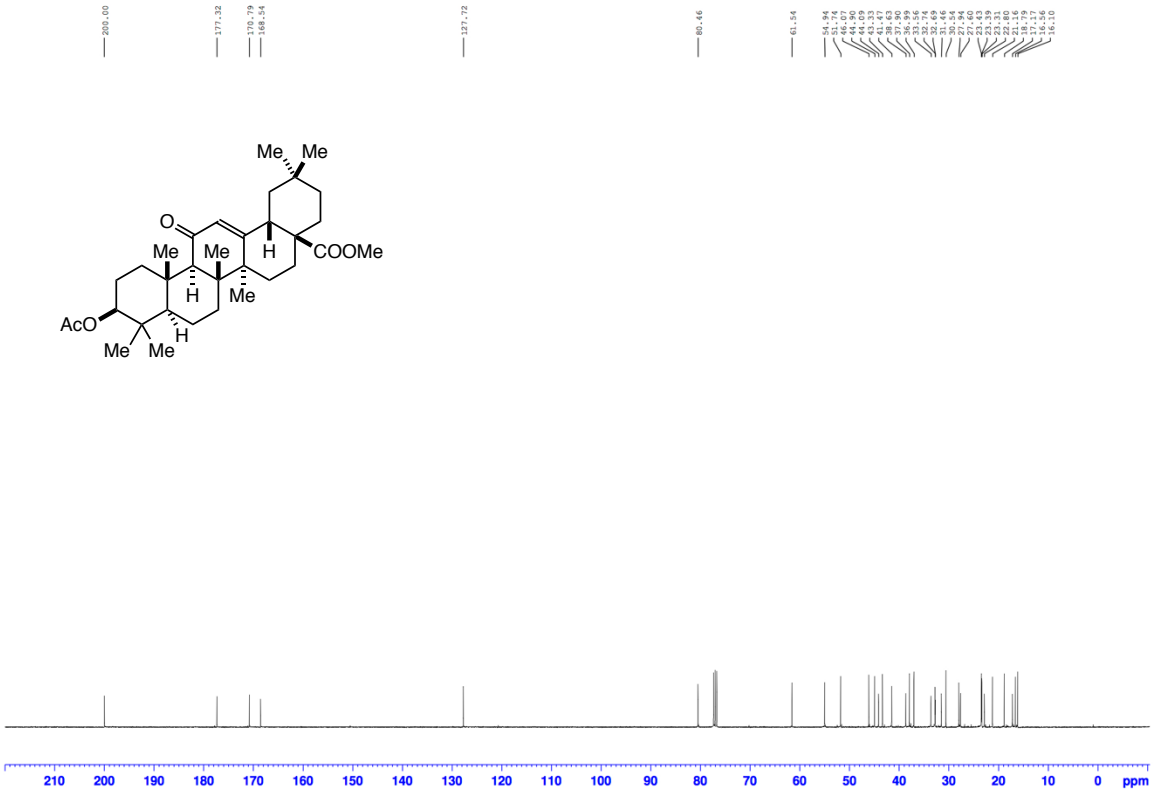

Fig. S63. $^{13}C\{^{1}H\}$ NMR spectrum of starting material for compound **13**.

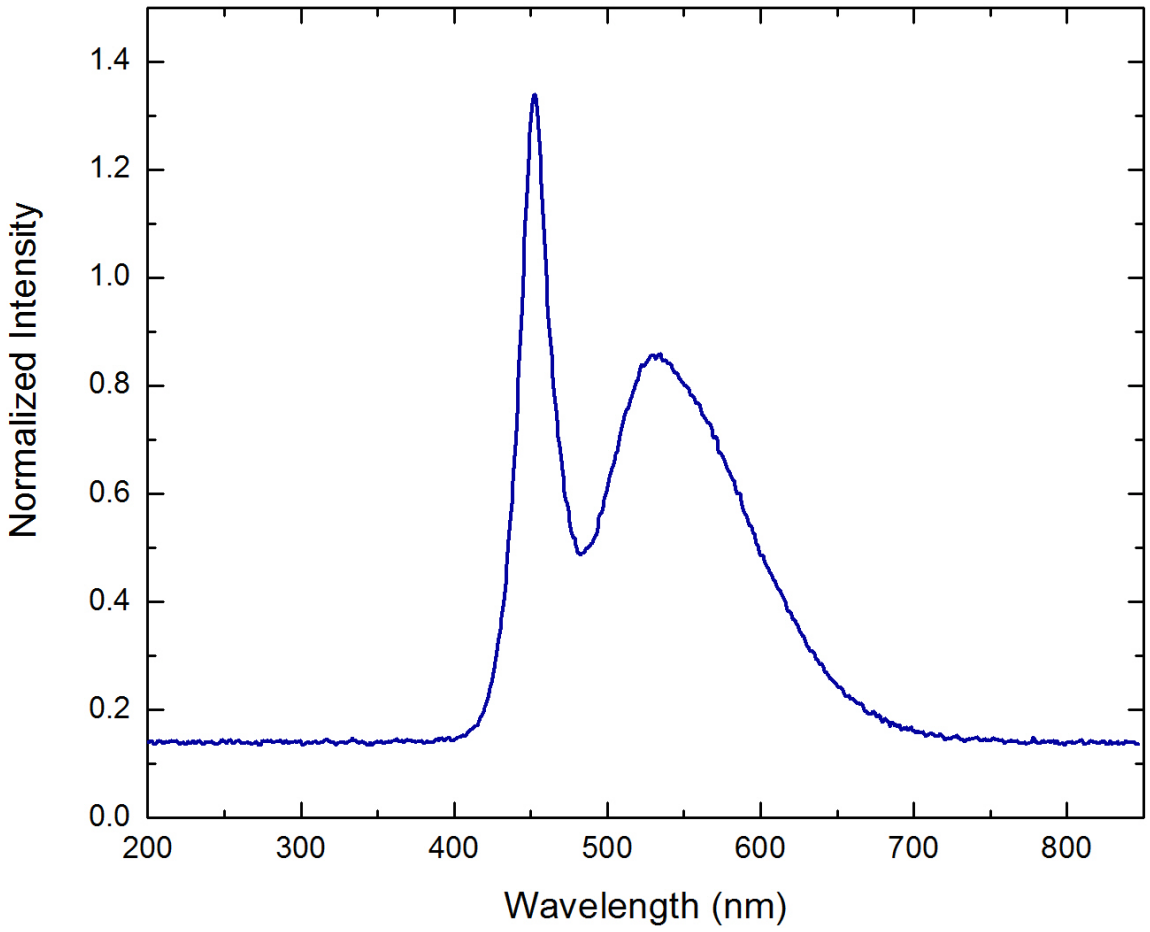

Fig. S64. UV-vis spectrum of cool white LED light source.

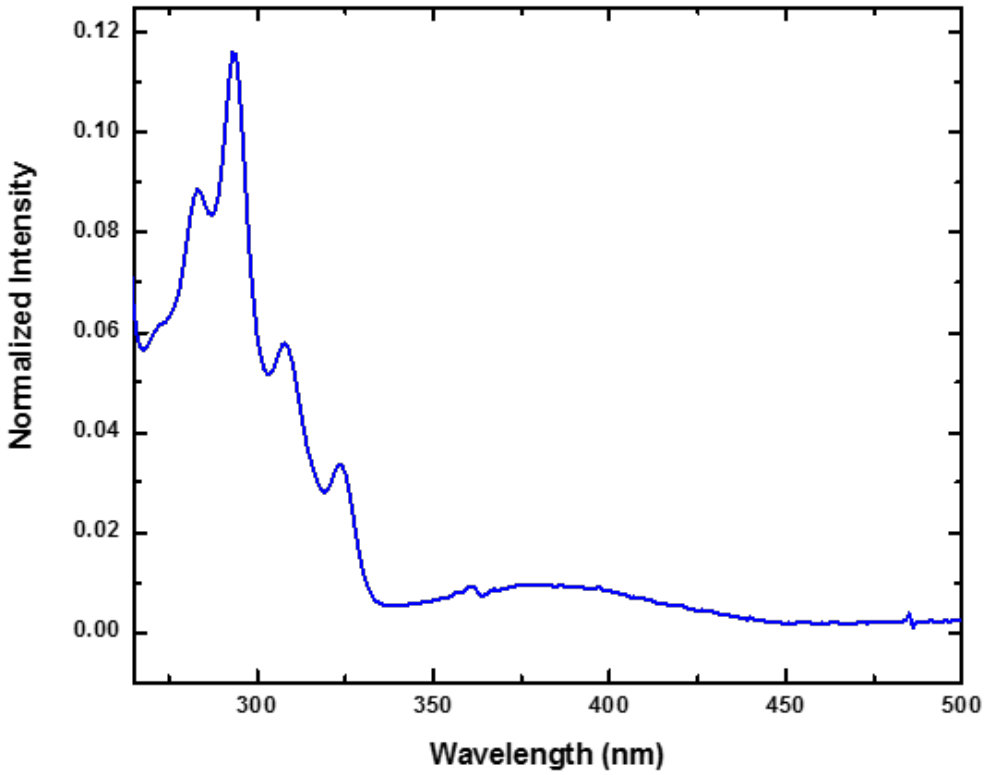

Fig. S65. UV-vis spectrum of 9-fluorenone in MeCN.

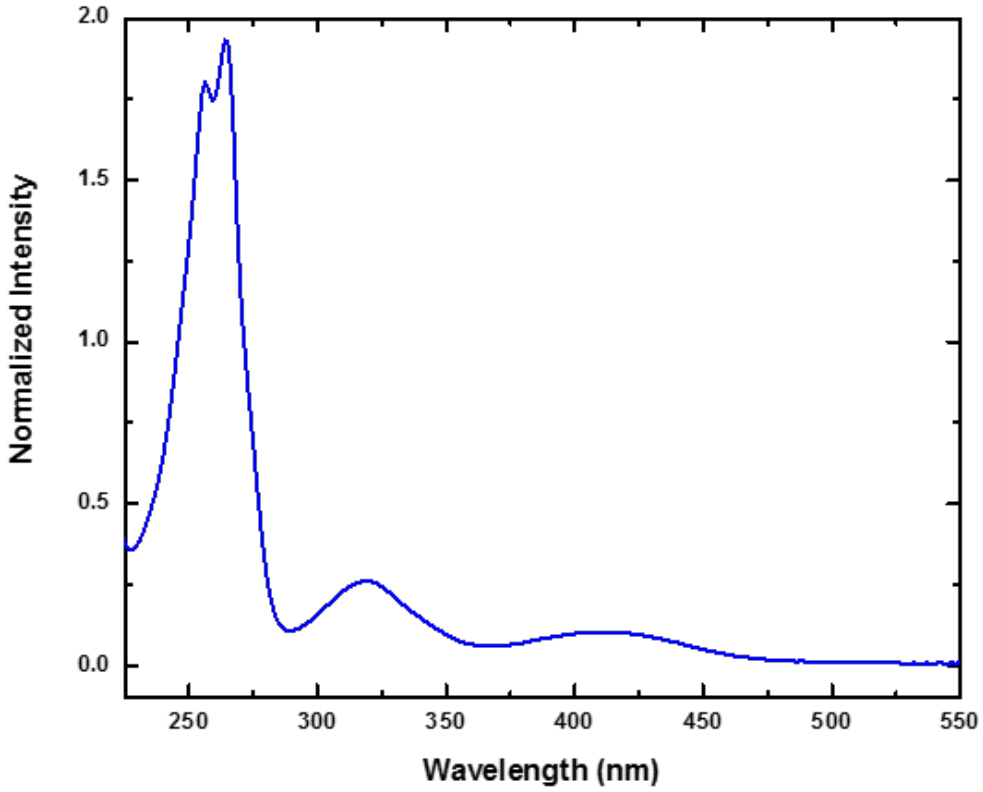

Fig. S66. UV-vis spectrum of 9,10-phenanthrenequinone in MeCN.

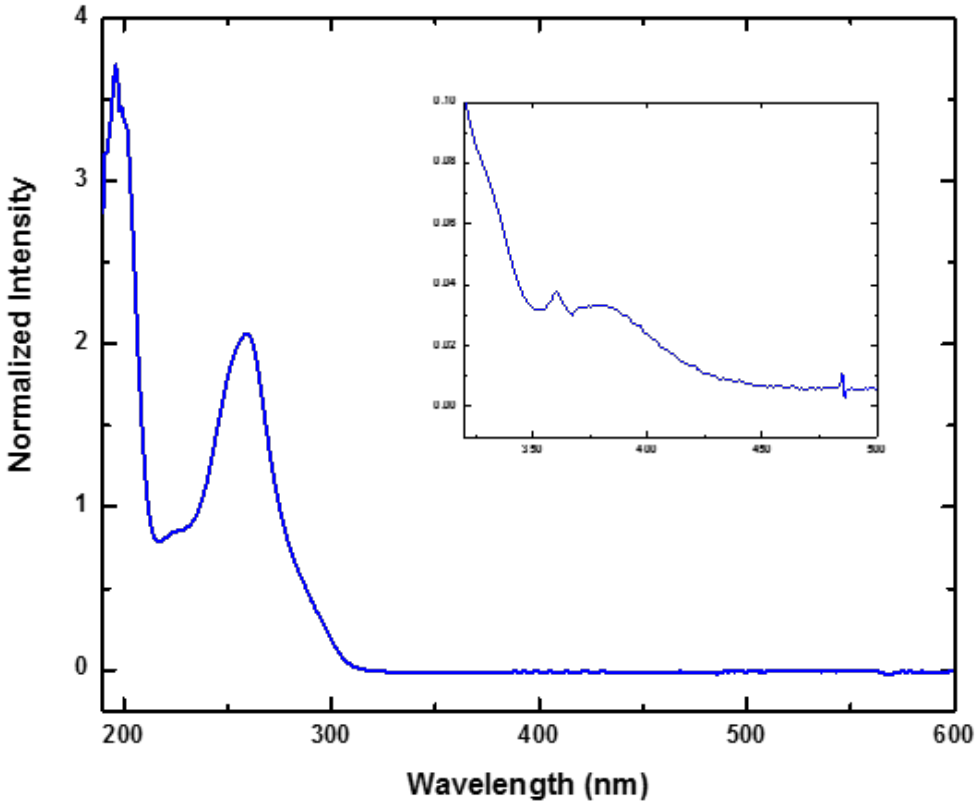

Fig. S67. UV-vis spectrum of benzil in MeCN.

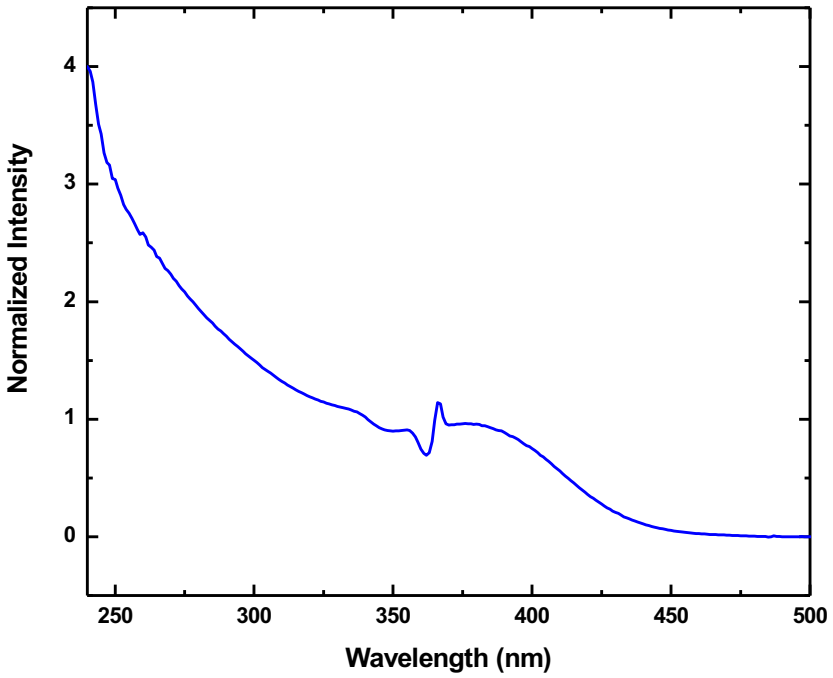

Fig. S68. UV-vis spectrum of 4,4-difluoro benzil in MeCN.

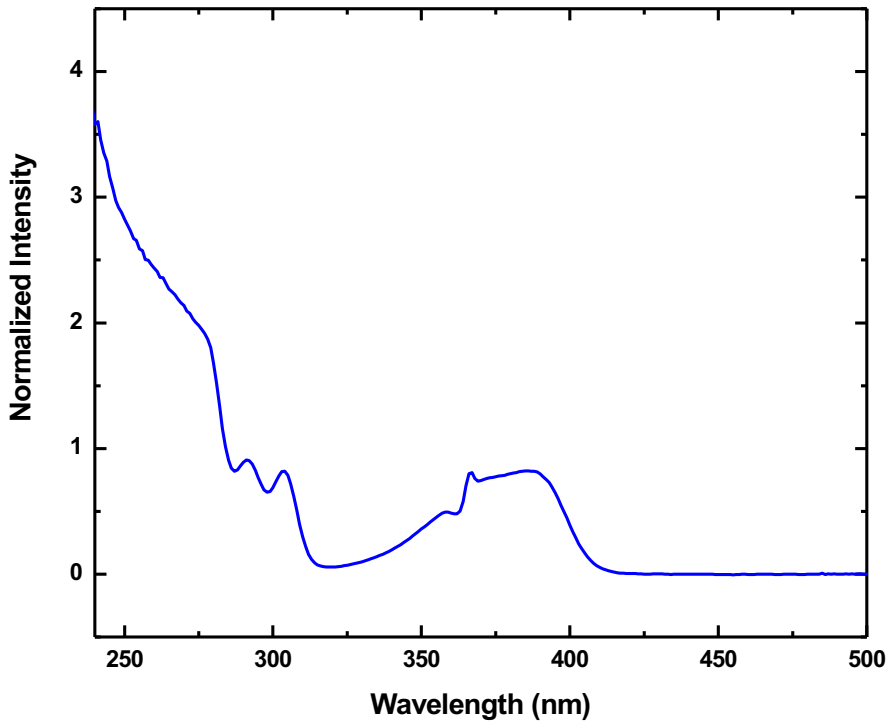

Fig. S69. UV-vis spectrum of 2-chlorothioxanthone in MeCN.

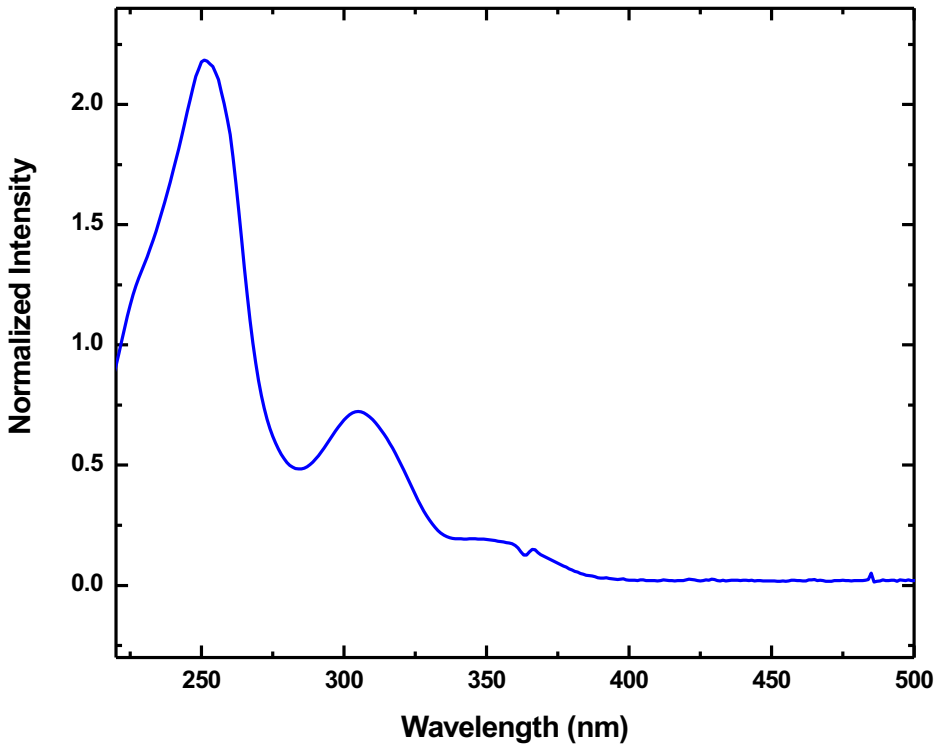

Fig. S70. UV-vis spectrum of dibenzosuberenone in MeCN.

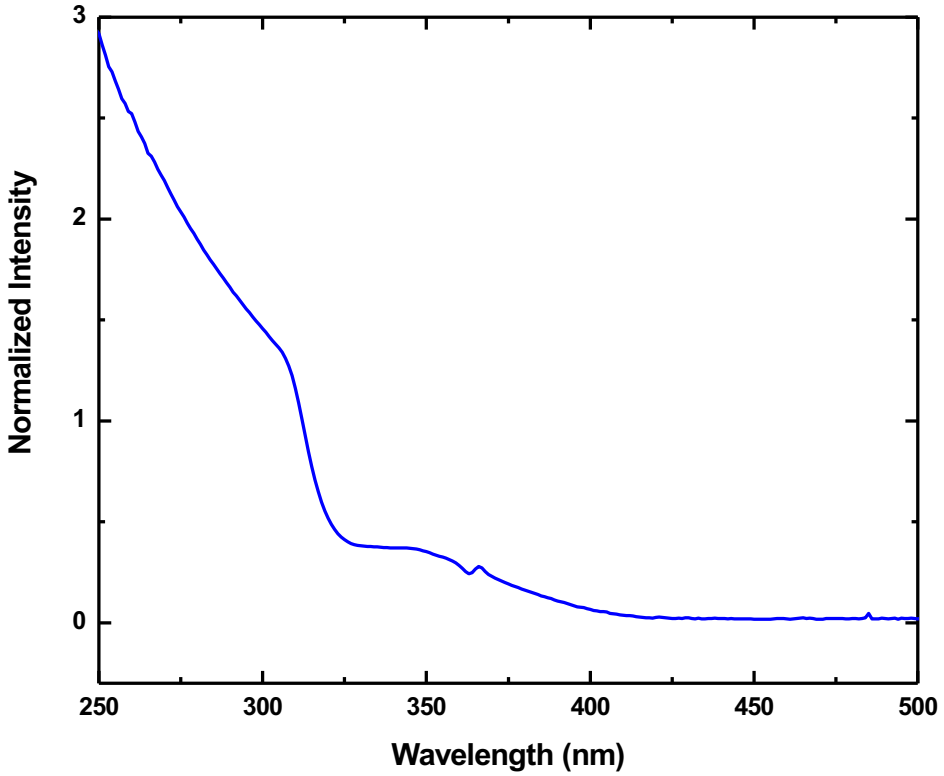

Fig. S71. UV-vis spectrum of methyl benzoylformate in MeCN.

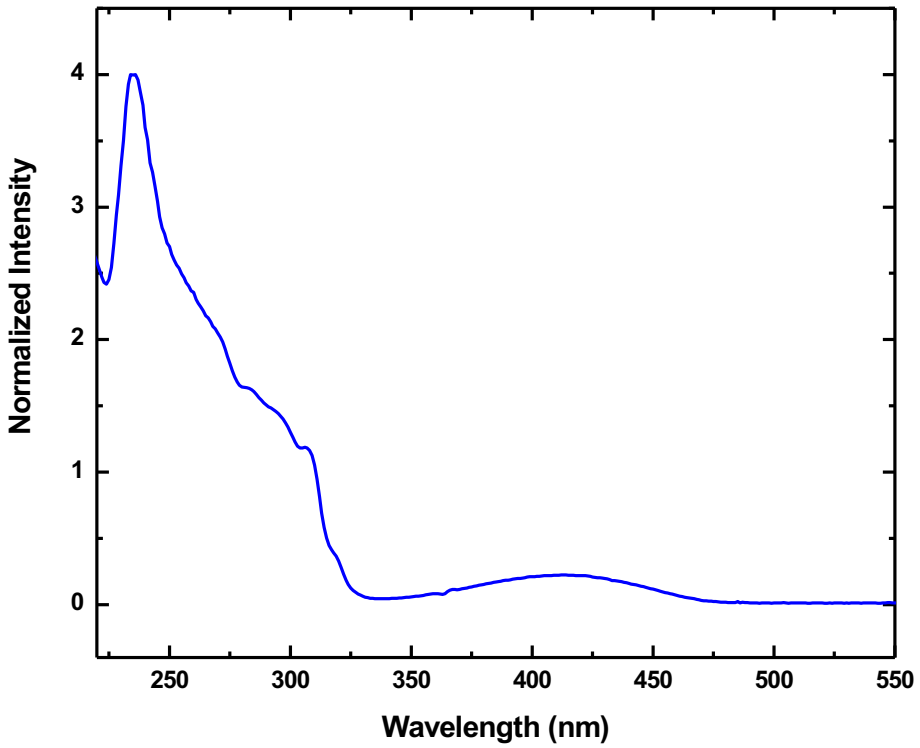

Fig. S72. UV-vis spectrum of 2,7-dichloro-9-fluorenone in MeCN.

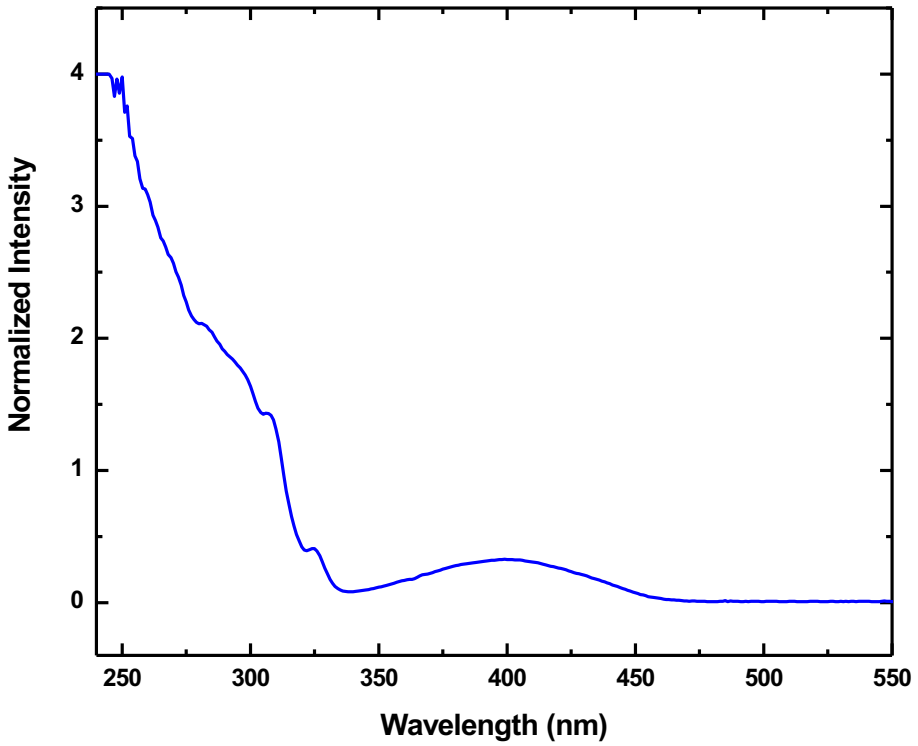

Fig. S73. UV-vis spectrum of 2-bromo-9-fluorenone in MeCN.

Fig. S74. LED photochemical microflow reactor setup – side view.

Fig. S75. LED photochemical microflow reactor setup – inside view.