

Supplementary Material

Synthesis and biological evaluation of four new ricinoleic acid-derived 1-O-alkylglycerols

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NMR spectra of Synthetic Compounds (**8-11**, **13-17**, **19-29** and **31-36**)

Figure S 1.1: ^1H NMR of Compound **13** (400 MHz, Chloroform- d)

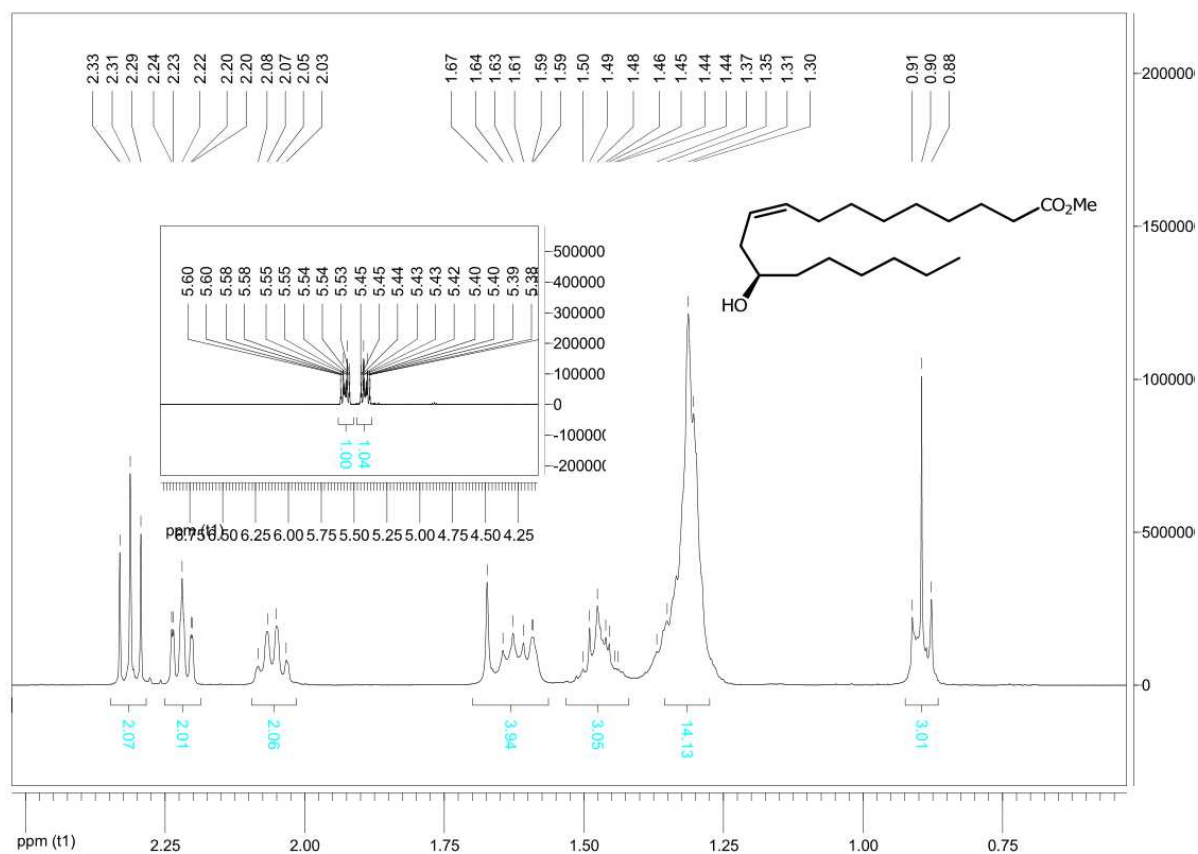
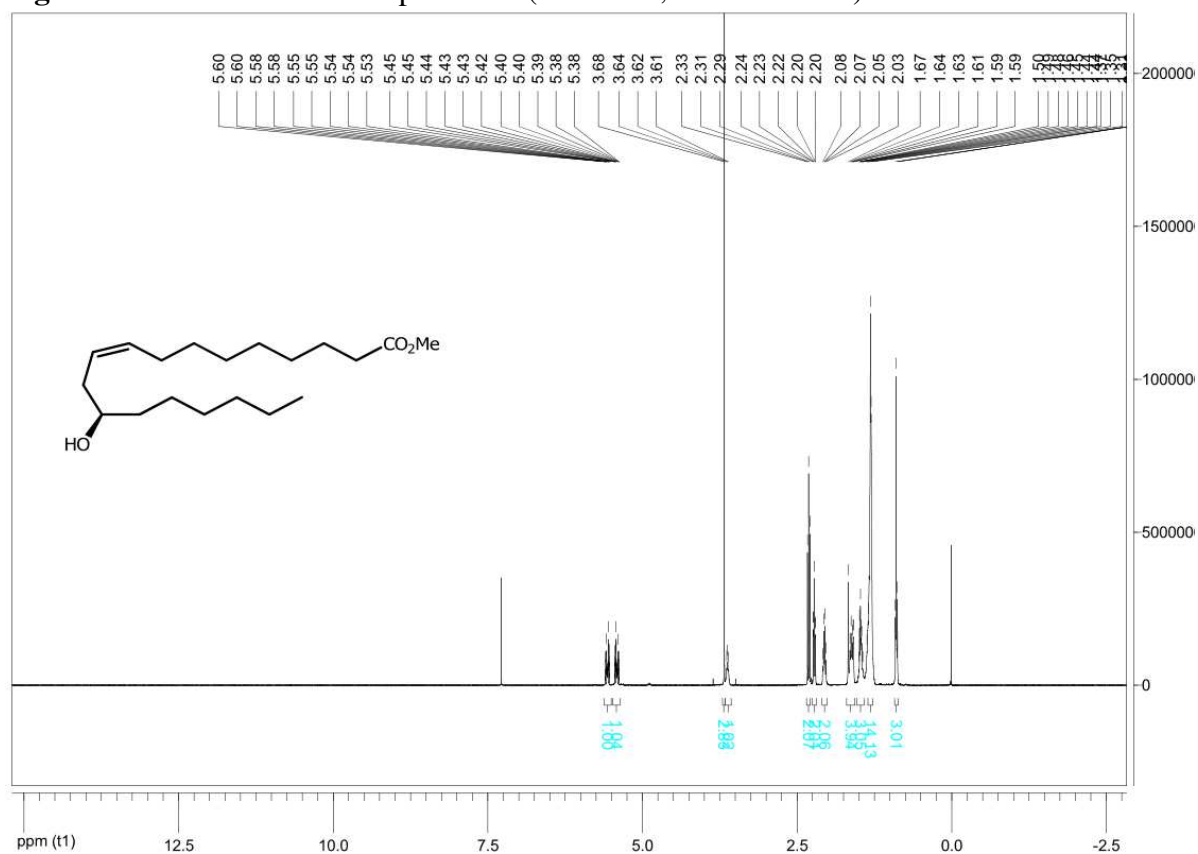


Figure S 1.2: ^{13}C NMR of Compound 13 (100 MHz, Chloroform-*d*)

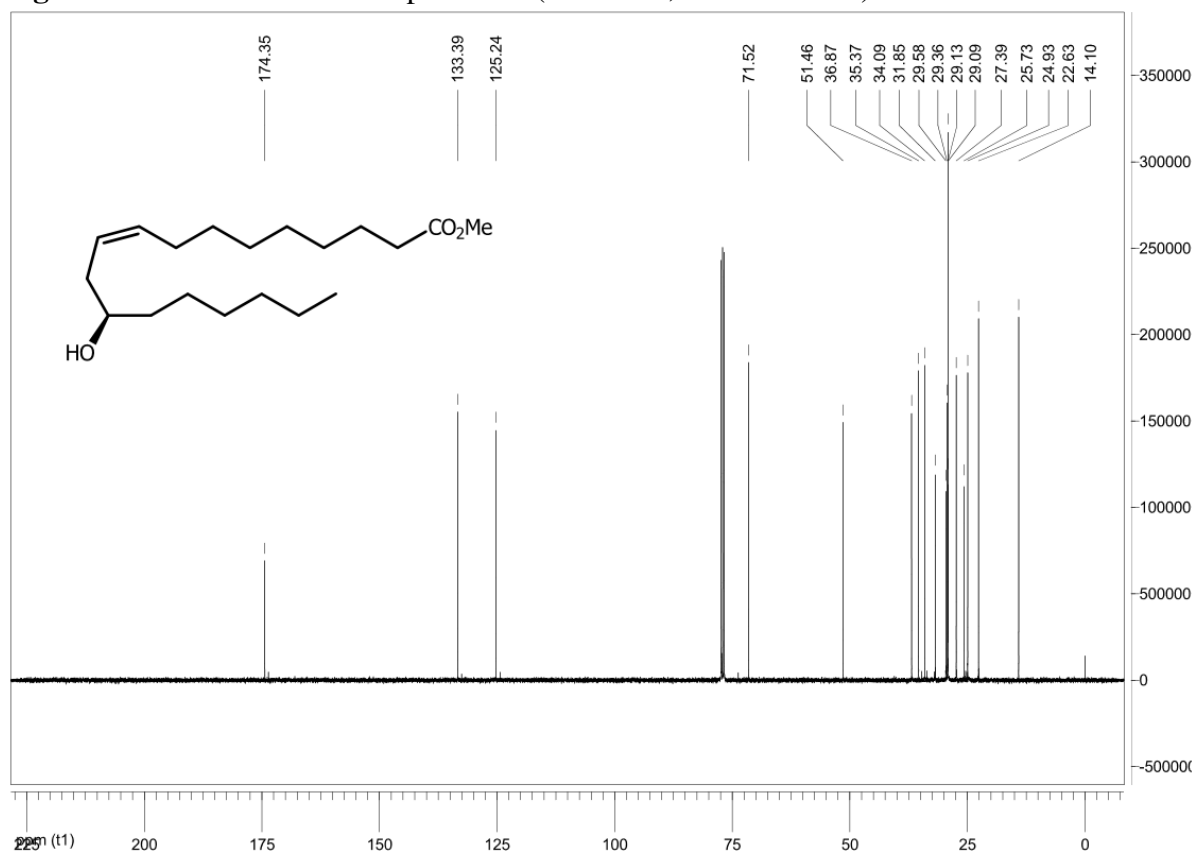
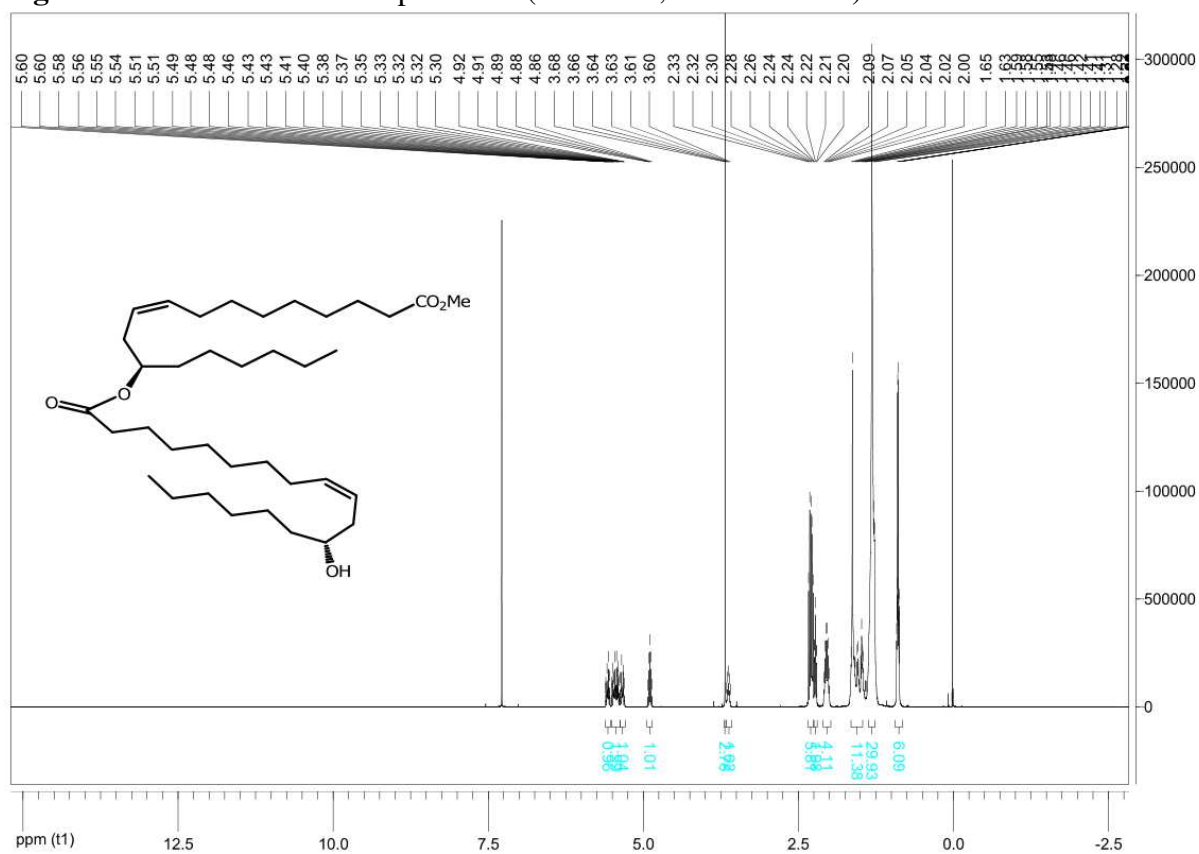


Figure S 1.3: ^1H NMR of Compound 14 (400 MHz, Chloroform-*d*)



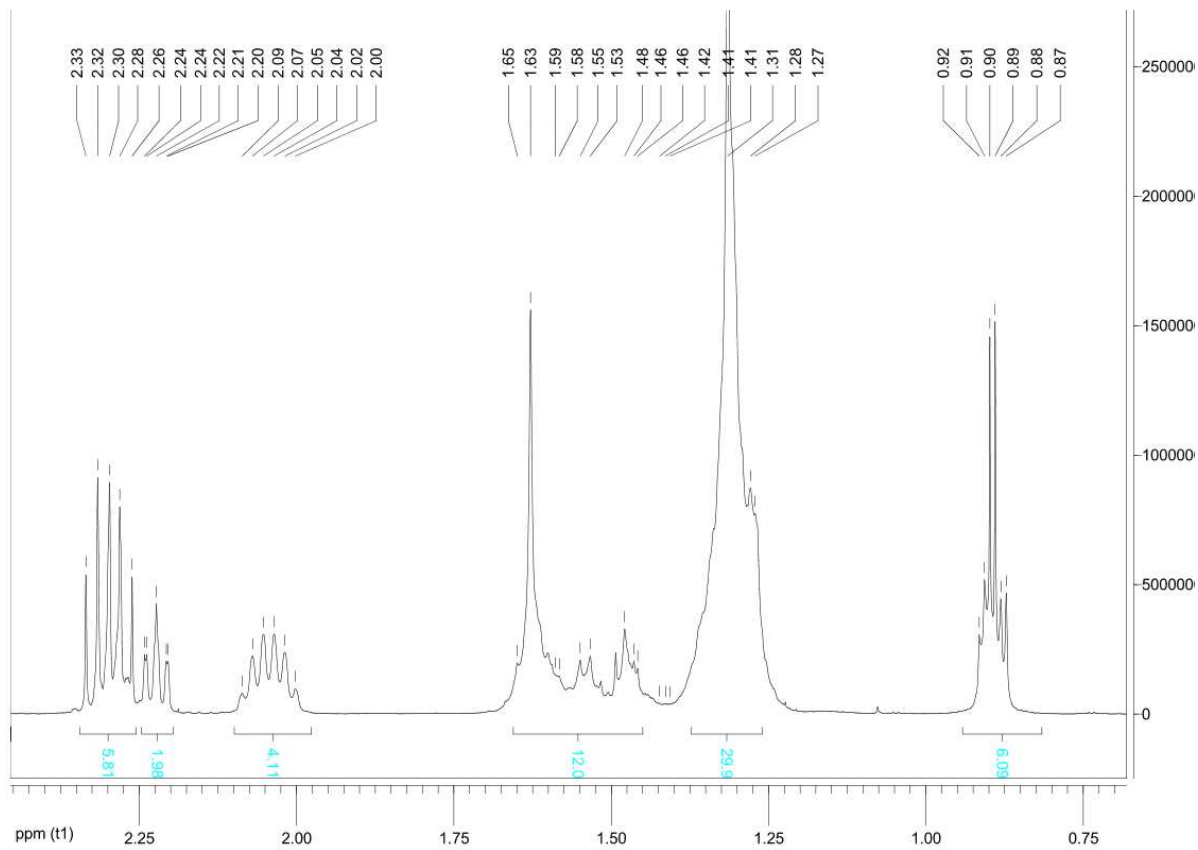
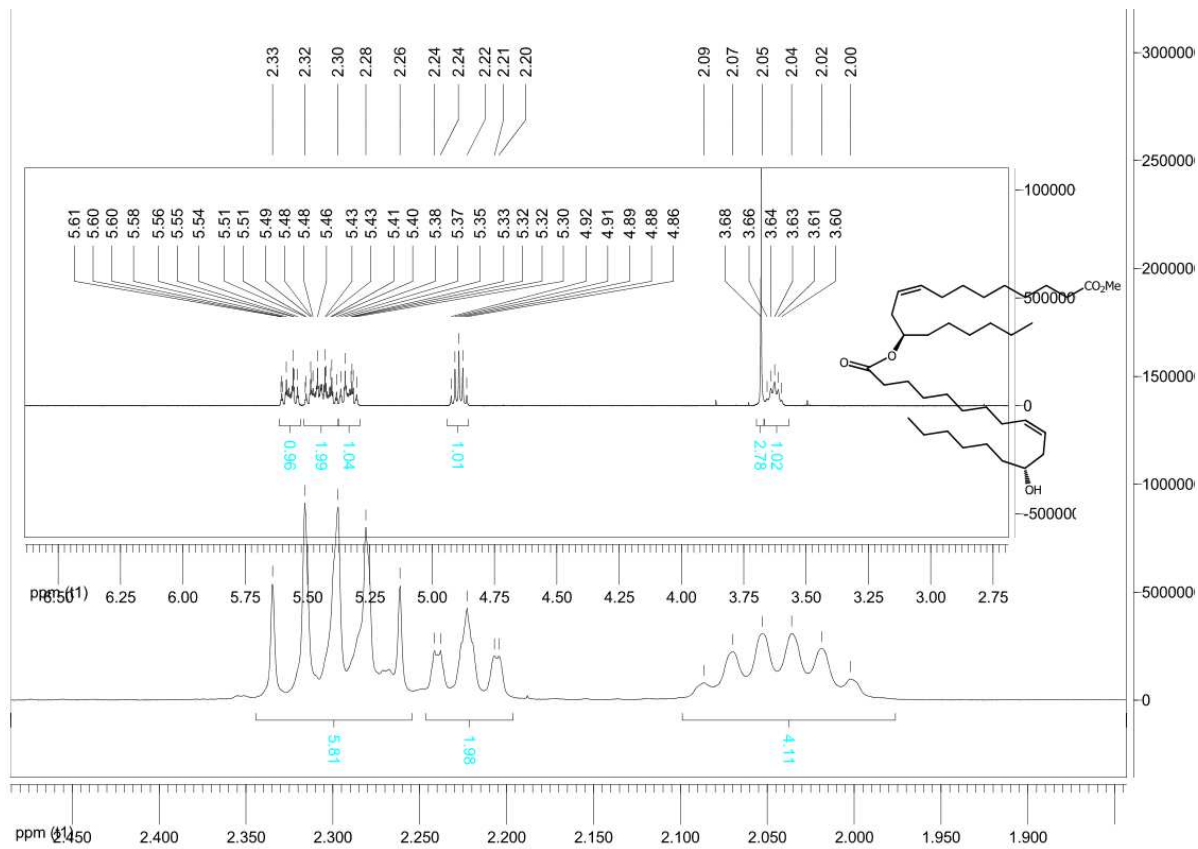


Figure S 1.4: ^{13}C NMR of Compound **14** (100 MHz, Chloroform-*d*)

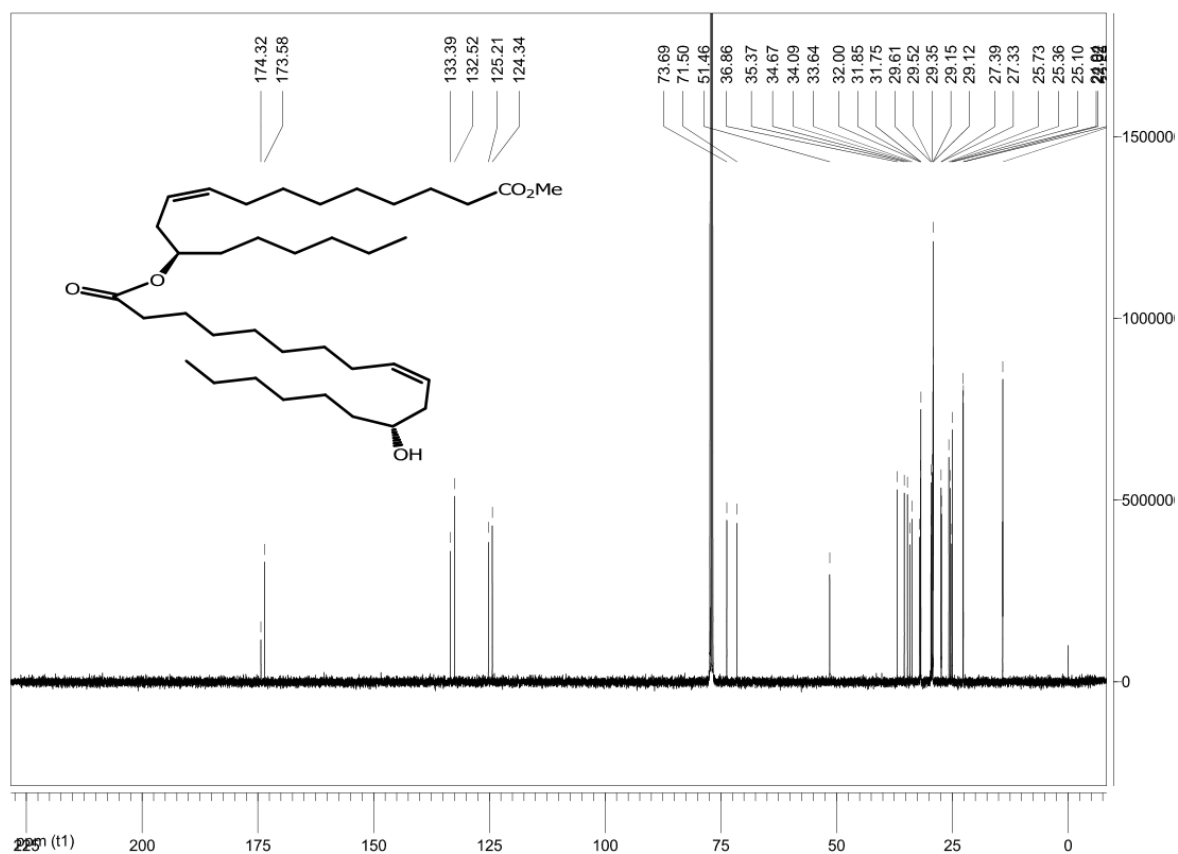
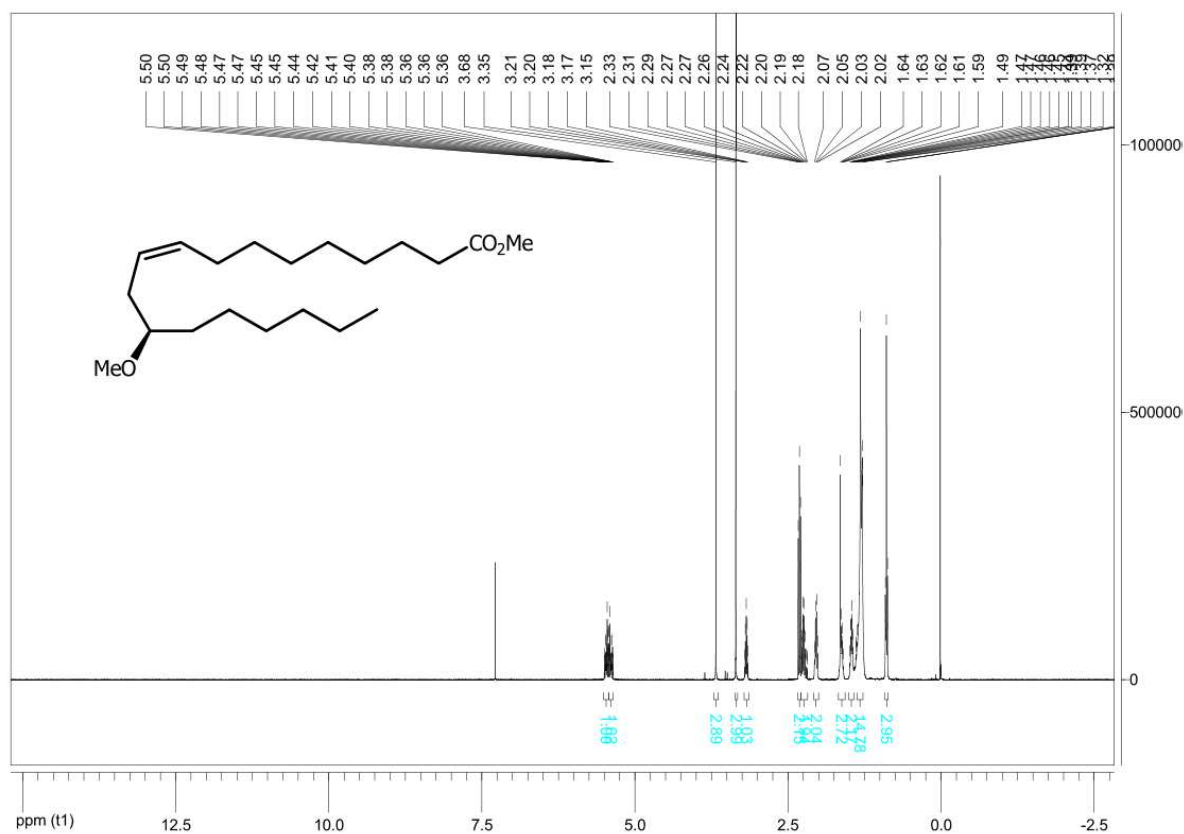


Figure S 1.5: ^1H NMR of Compound **15** (400 MHz, Chloroform-*d*)



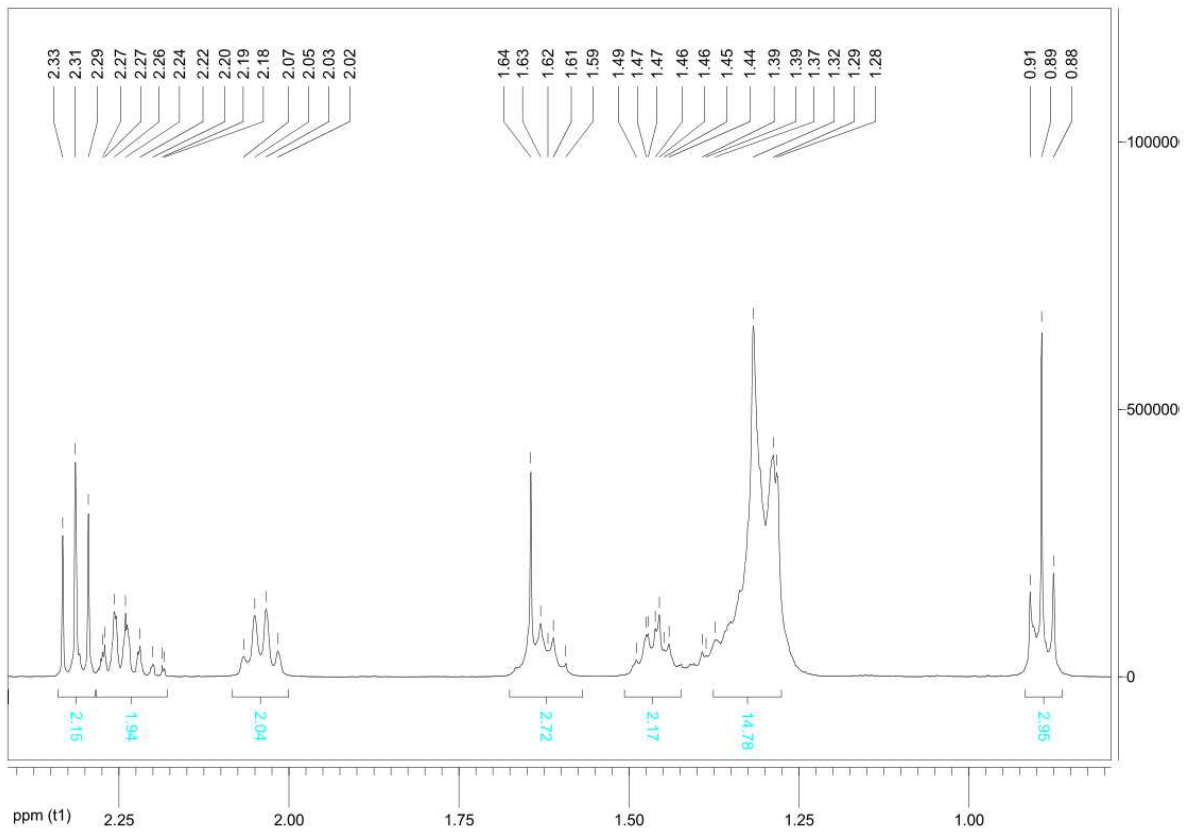
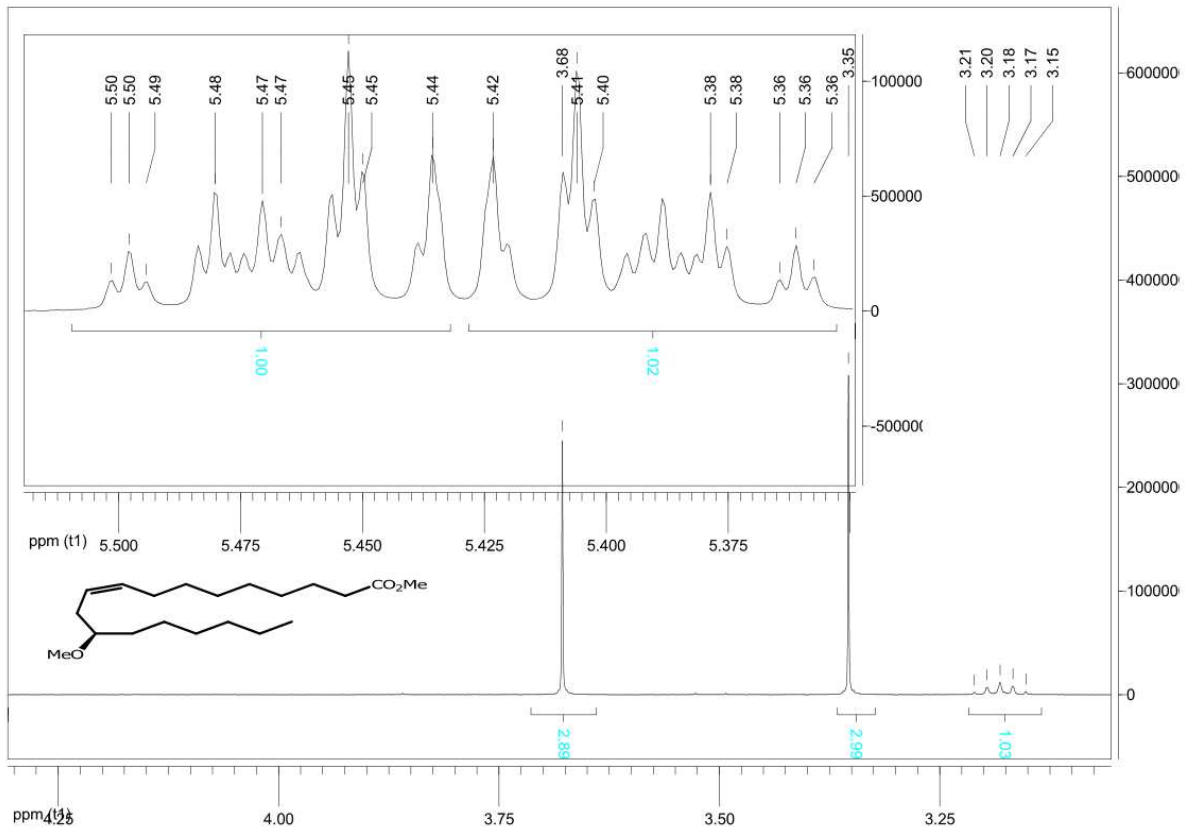


Figure S 1.6: ^{13}C NMR of Compound **15** (100 MHz, Chloroform-*d*)

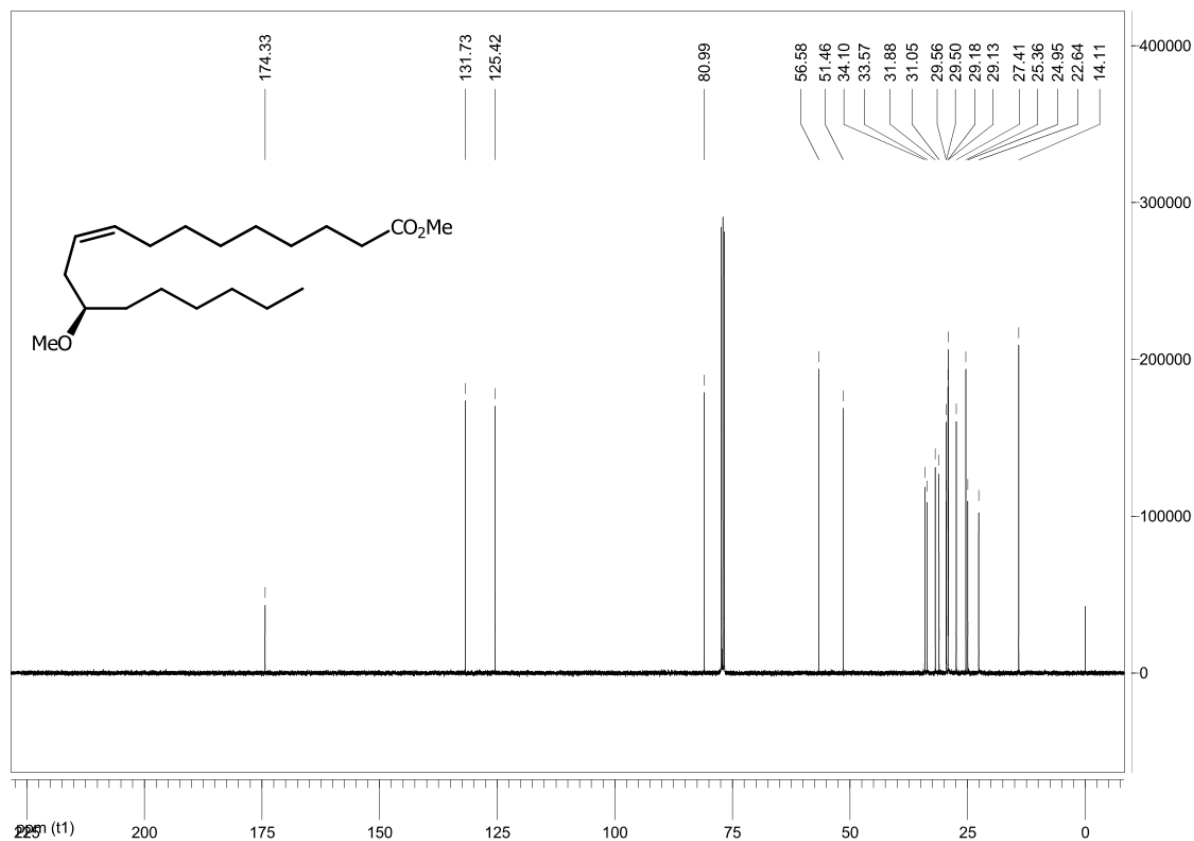
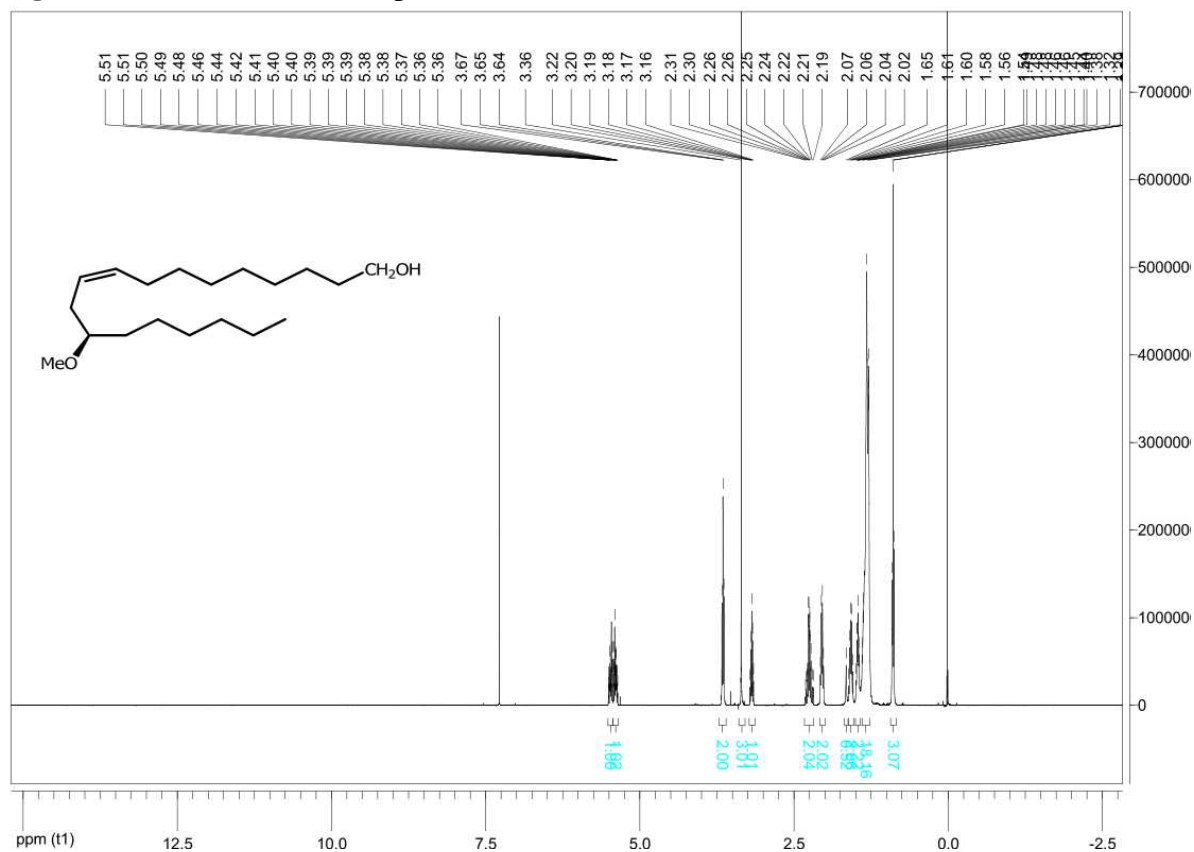


Figure S 1.7: ^1H NMR of Compound **16** (400 MHz, Chloroform-*d*)



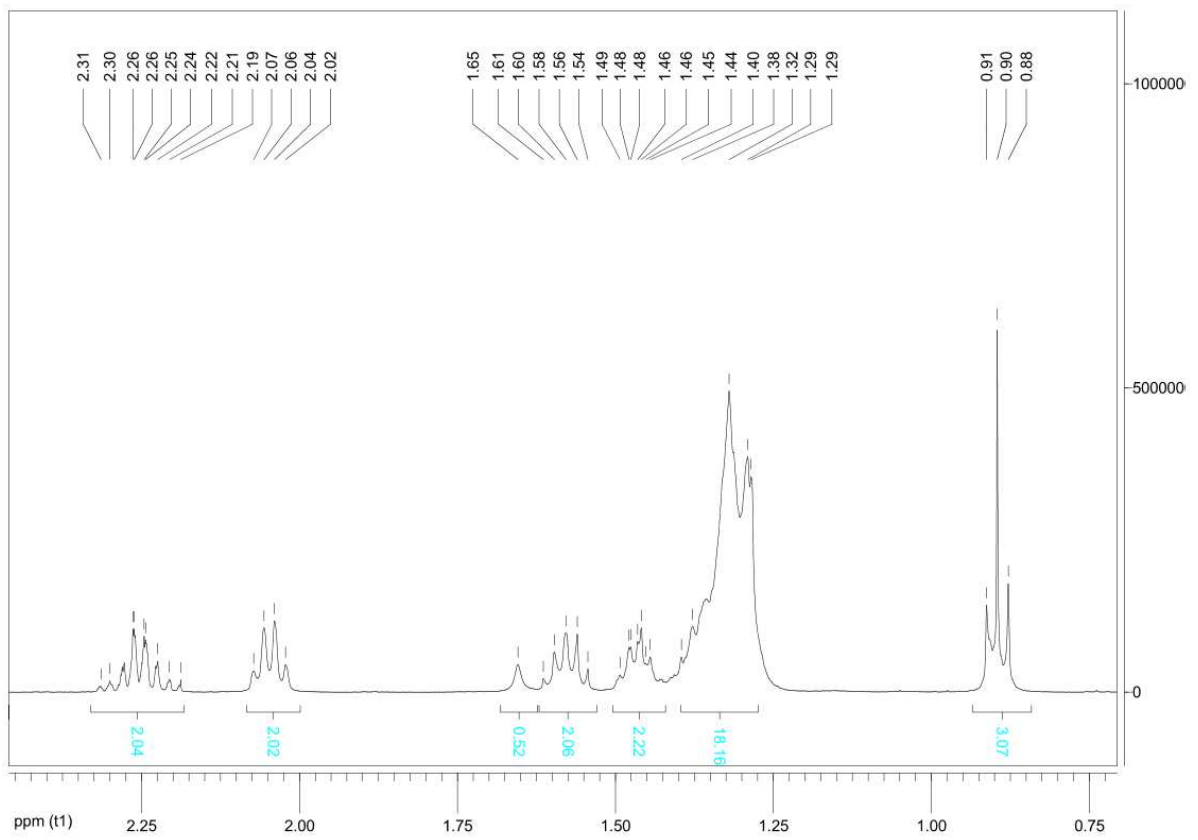
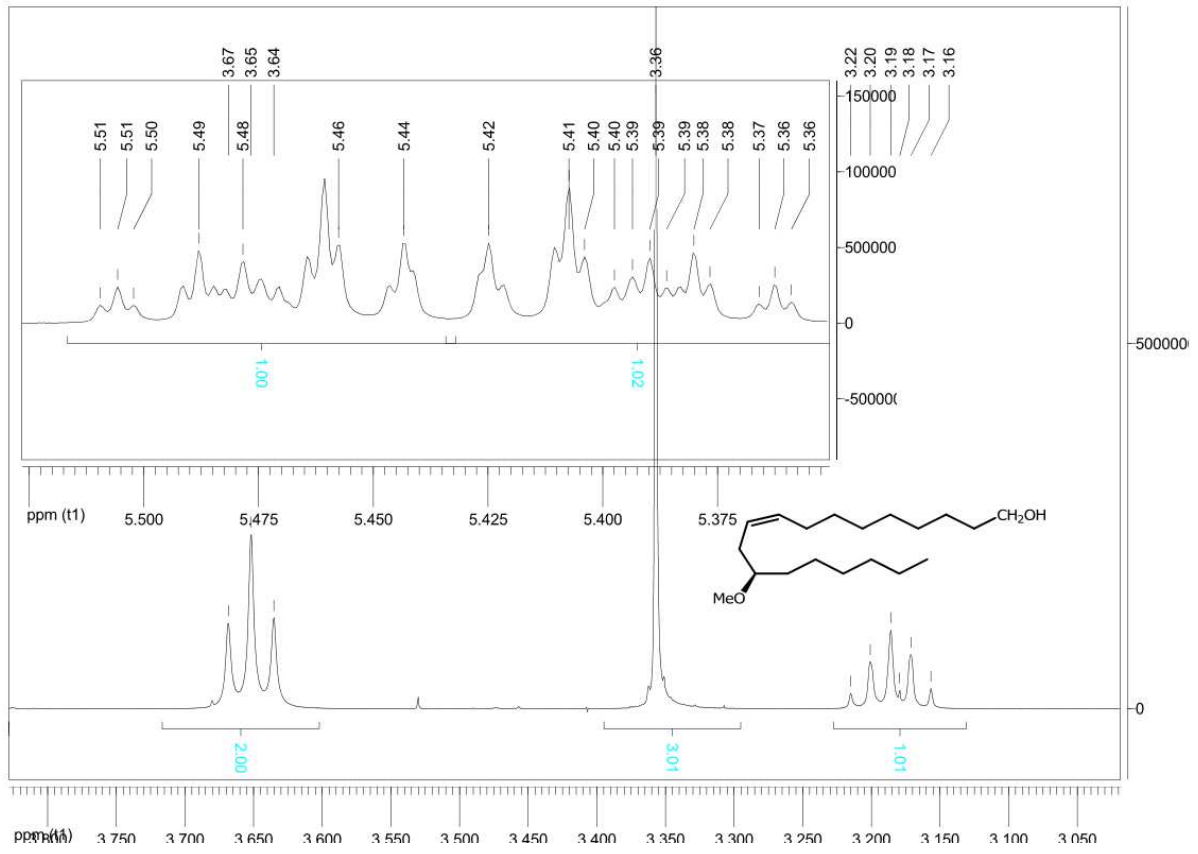


Figure S 1.8: ^{13}C NMR of Compound **16** (100 MHz, Chloroform-*d*)

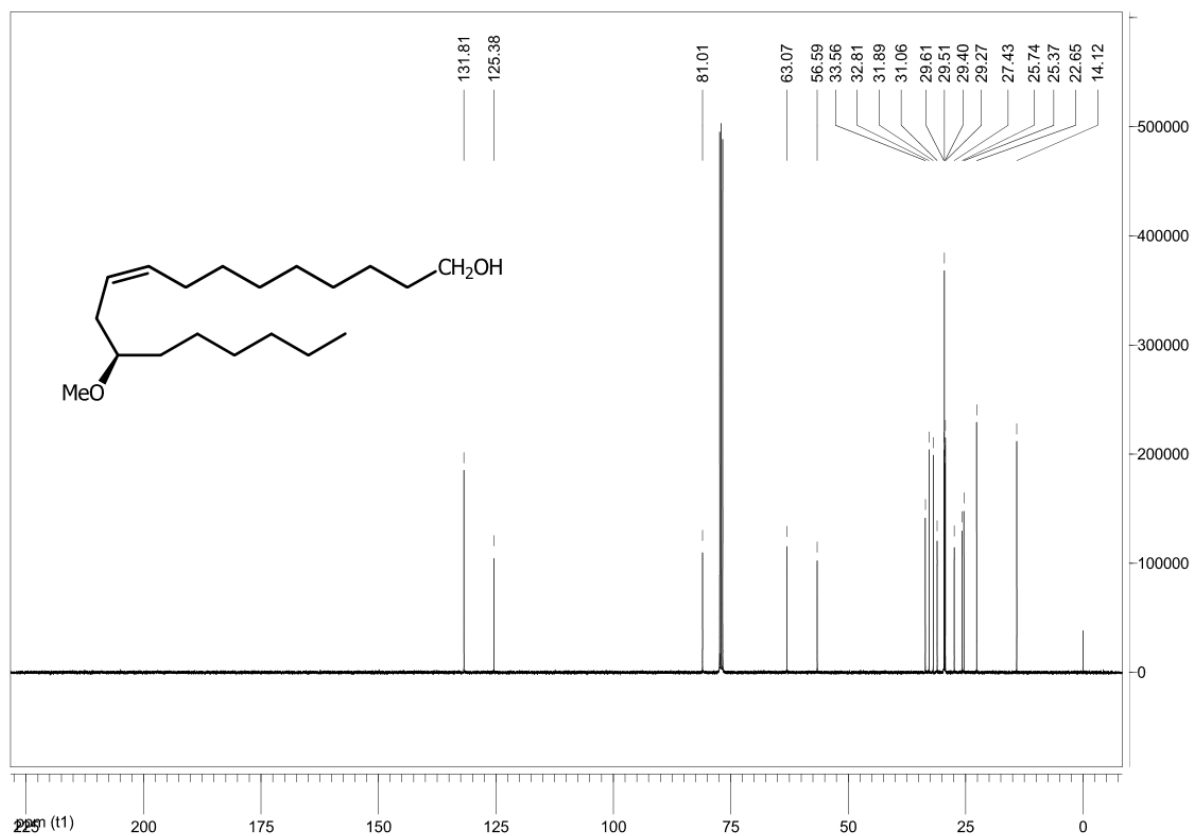
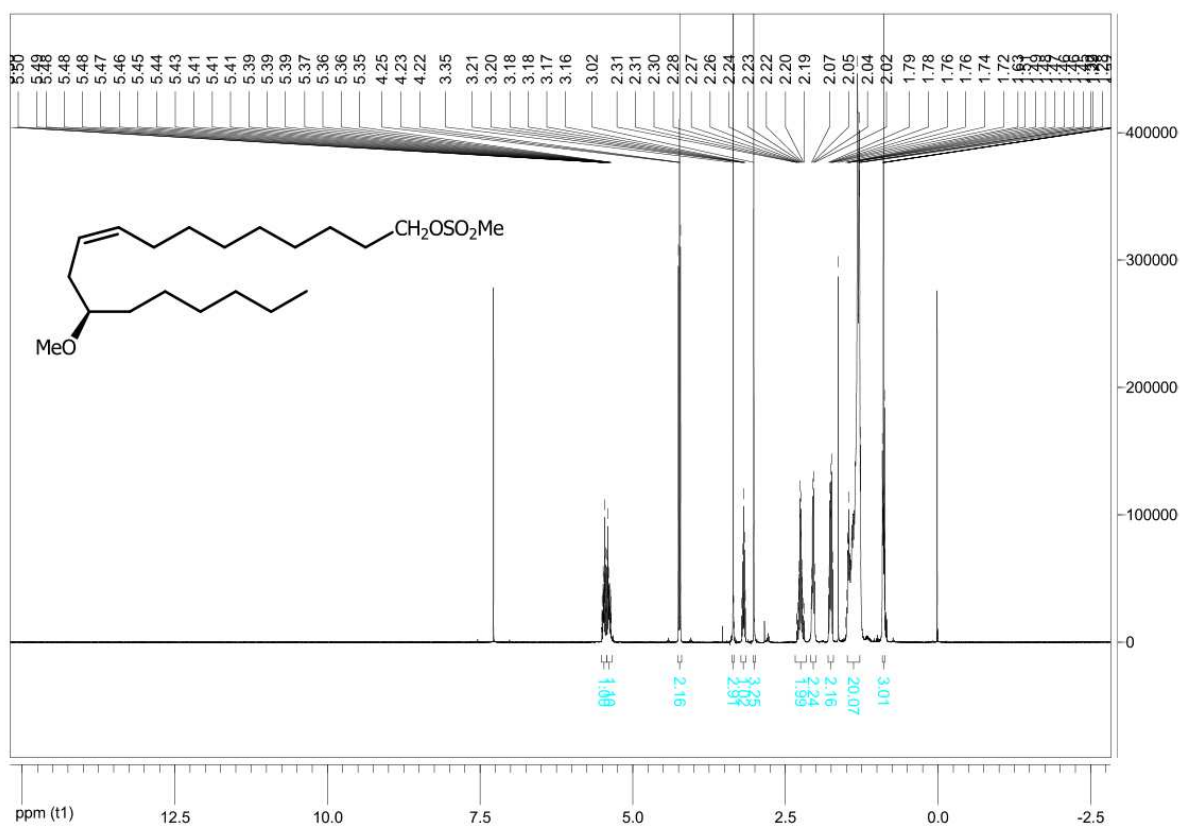


Figure S 1.9: ^1H NMR of Compound **17** (400 MHz, Chloroform-*d*)



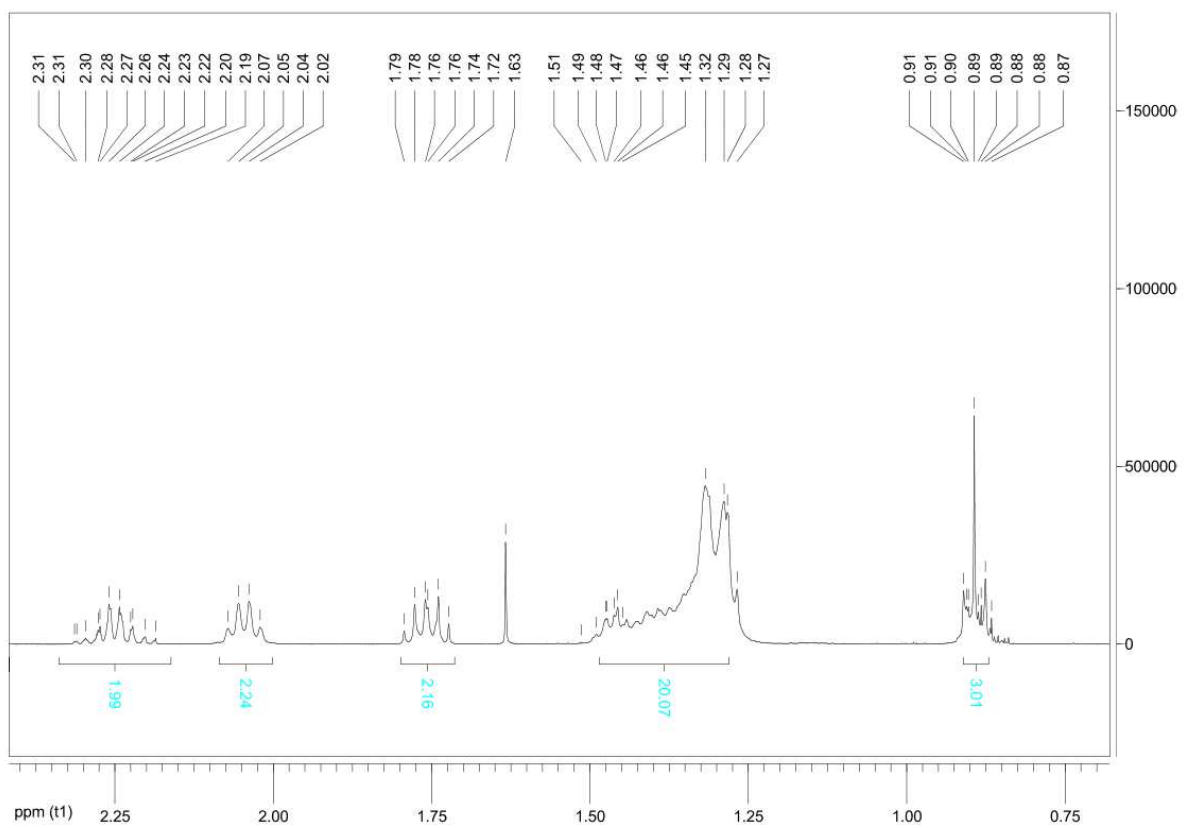
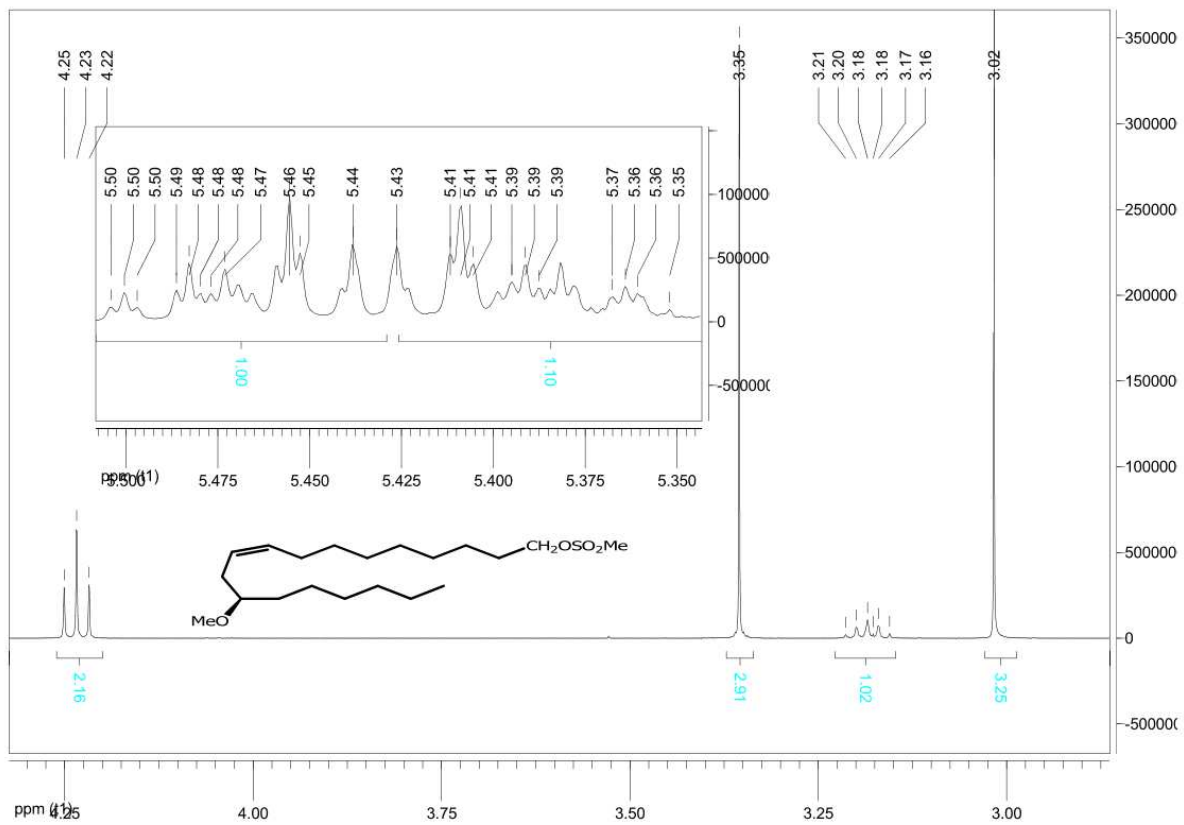


Figure S 1.10: ^{13}C NMR of Compound **17** (100 MHz, Chloroform-*d*)

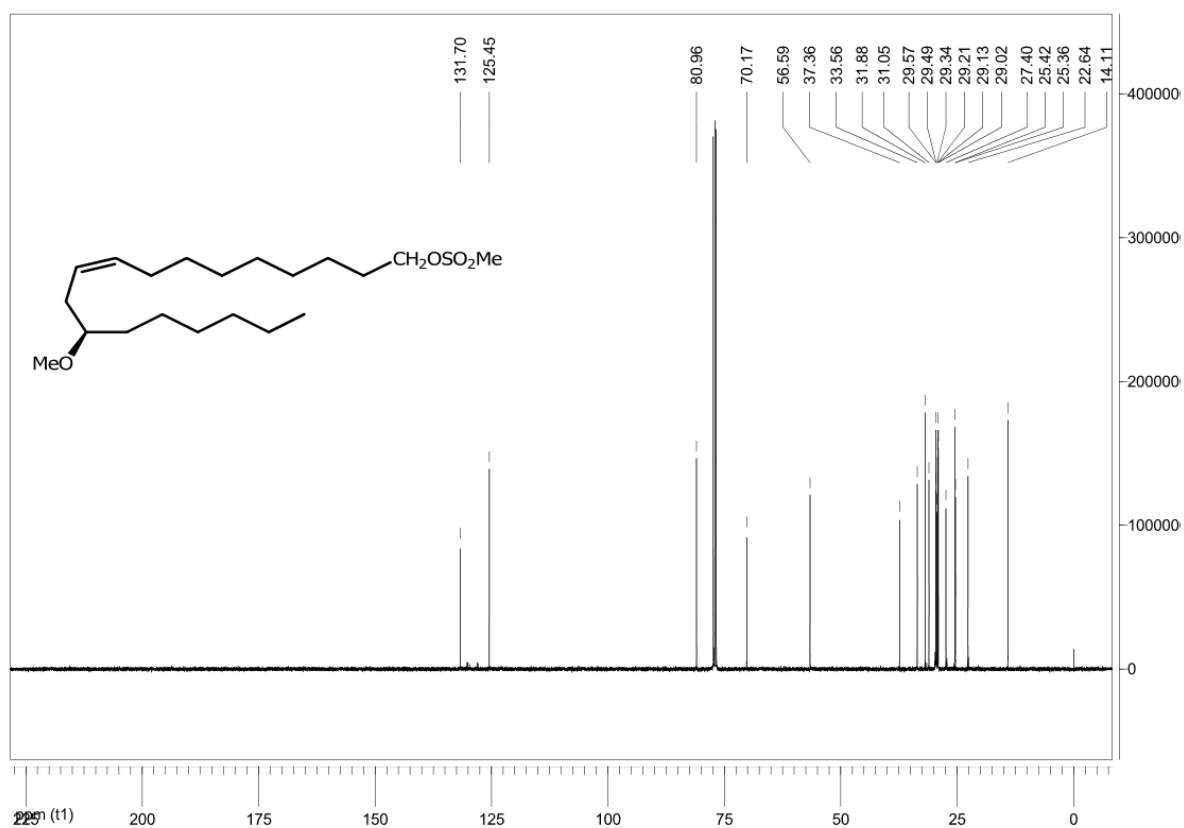
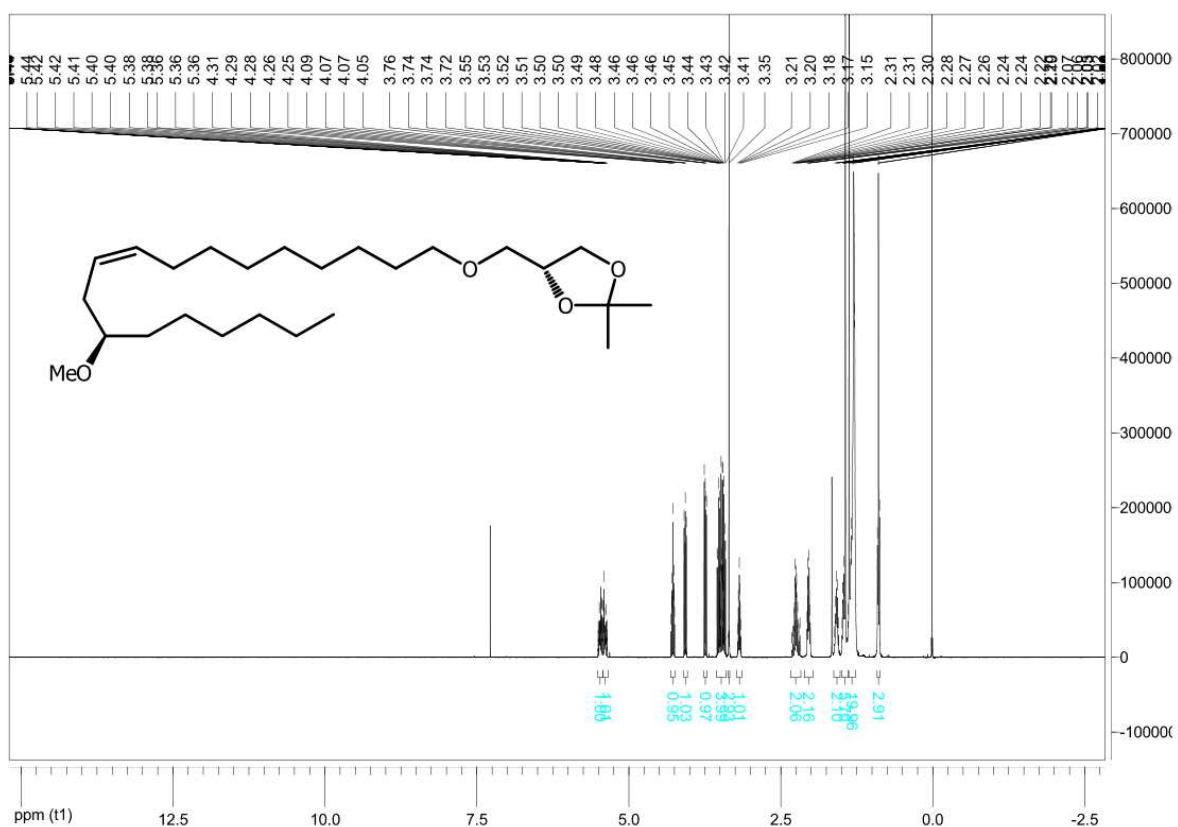
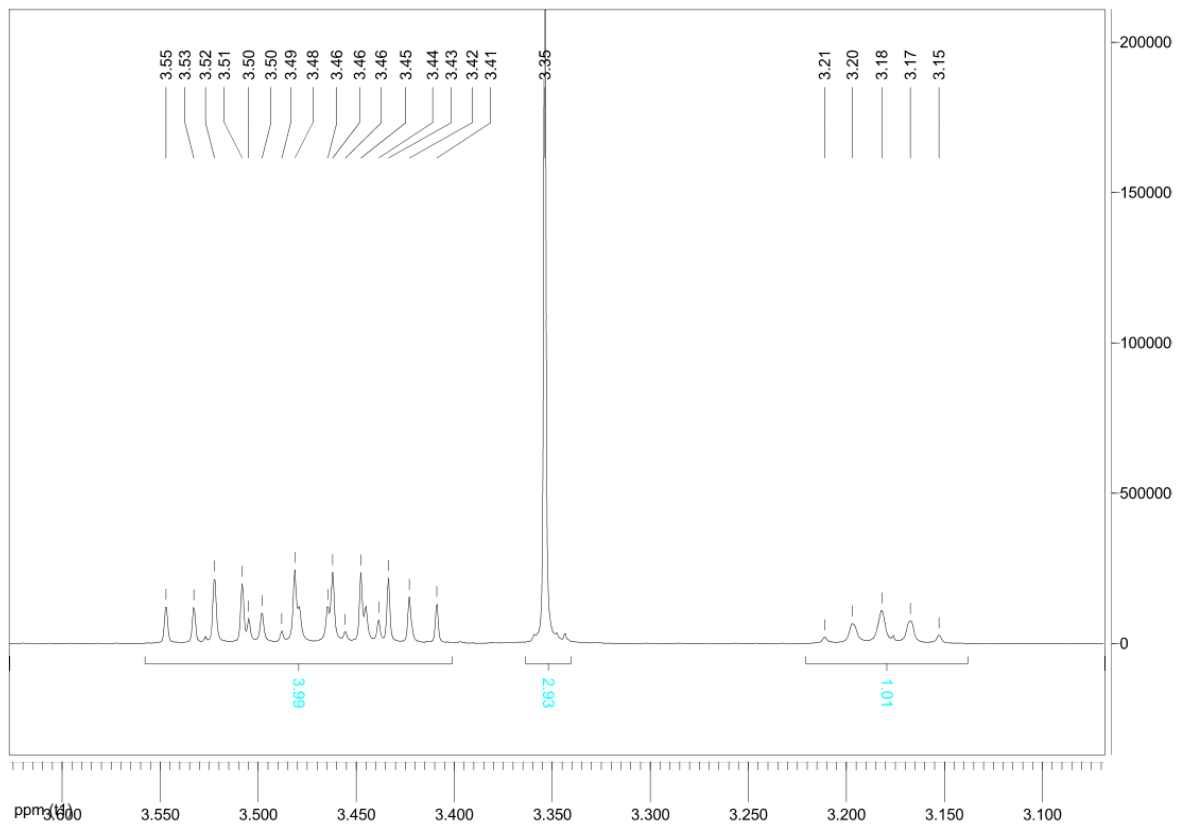
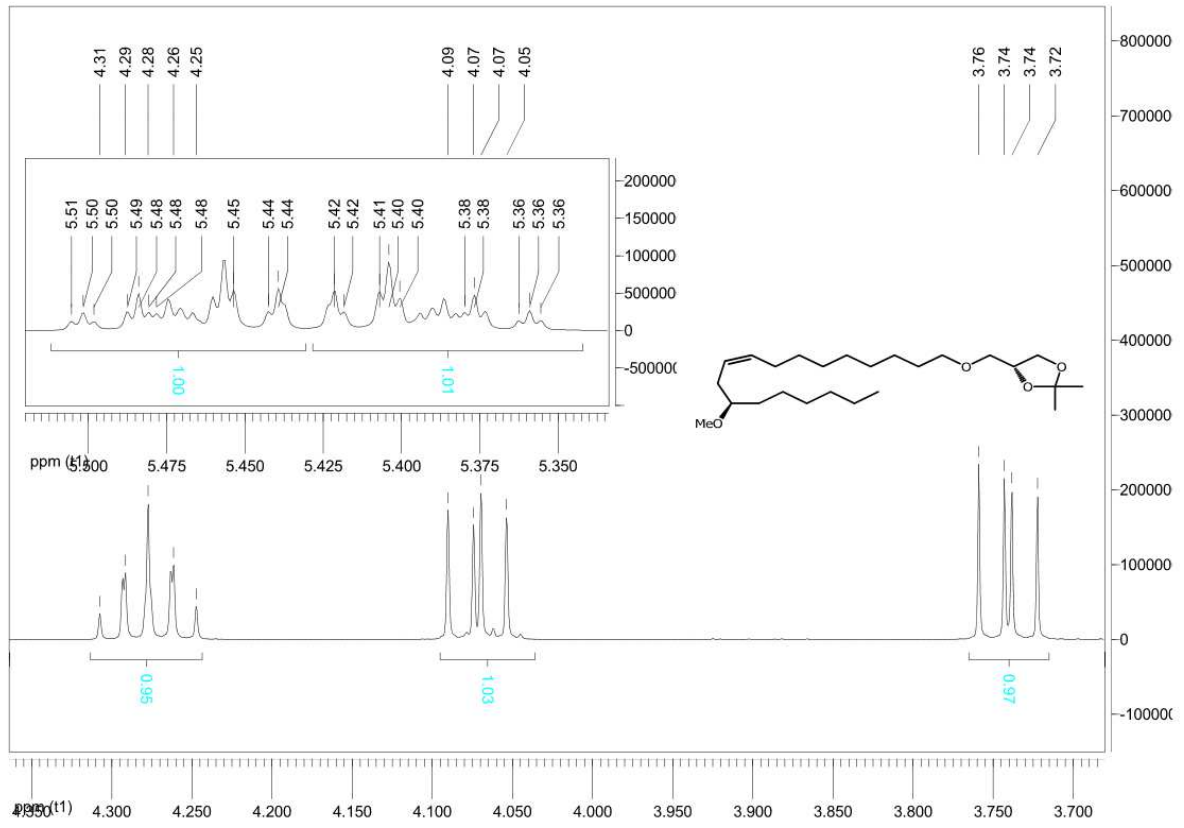


Figure S 1.11: ^1H NMR of Compound **19** (400 MHz, Chloroform-*d*)





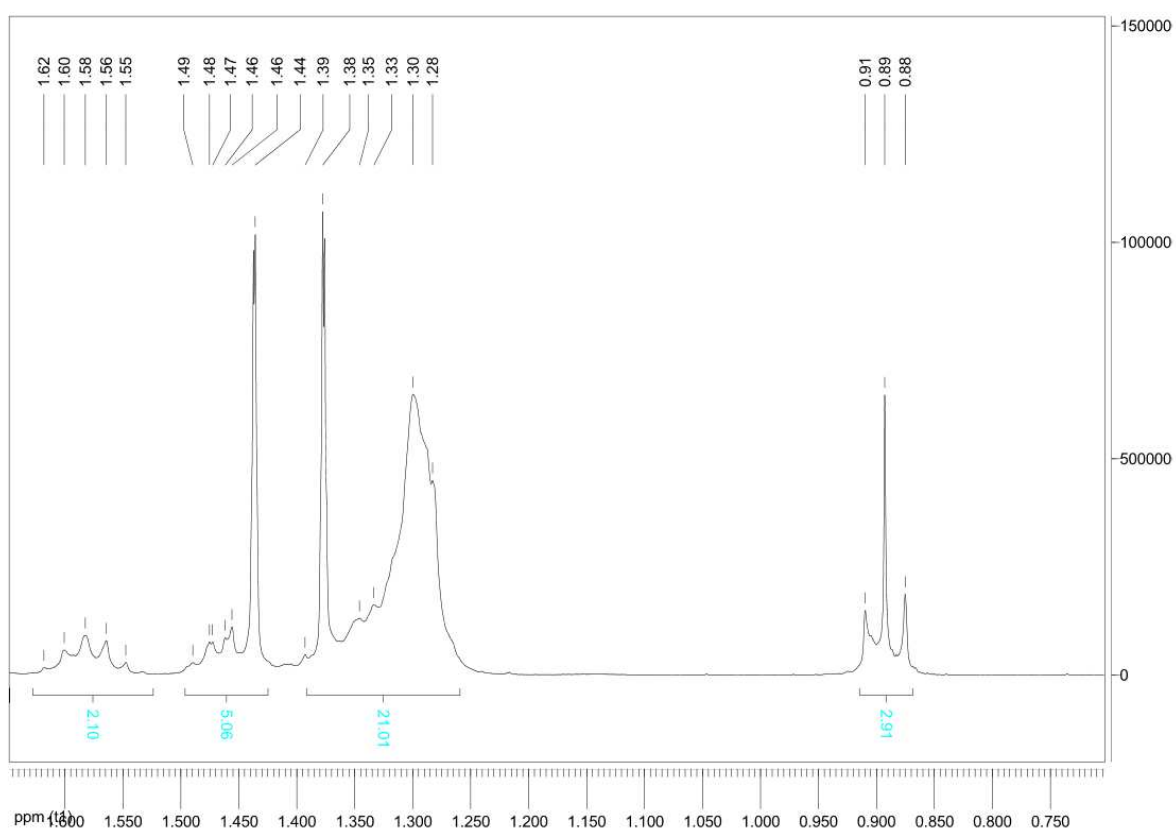
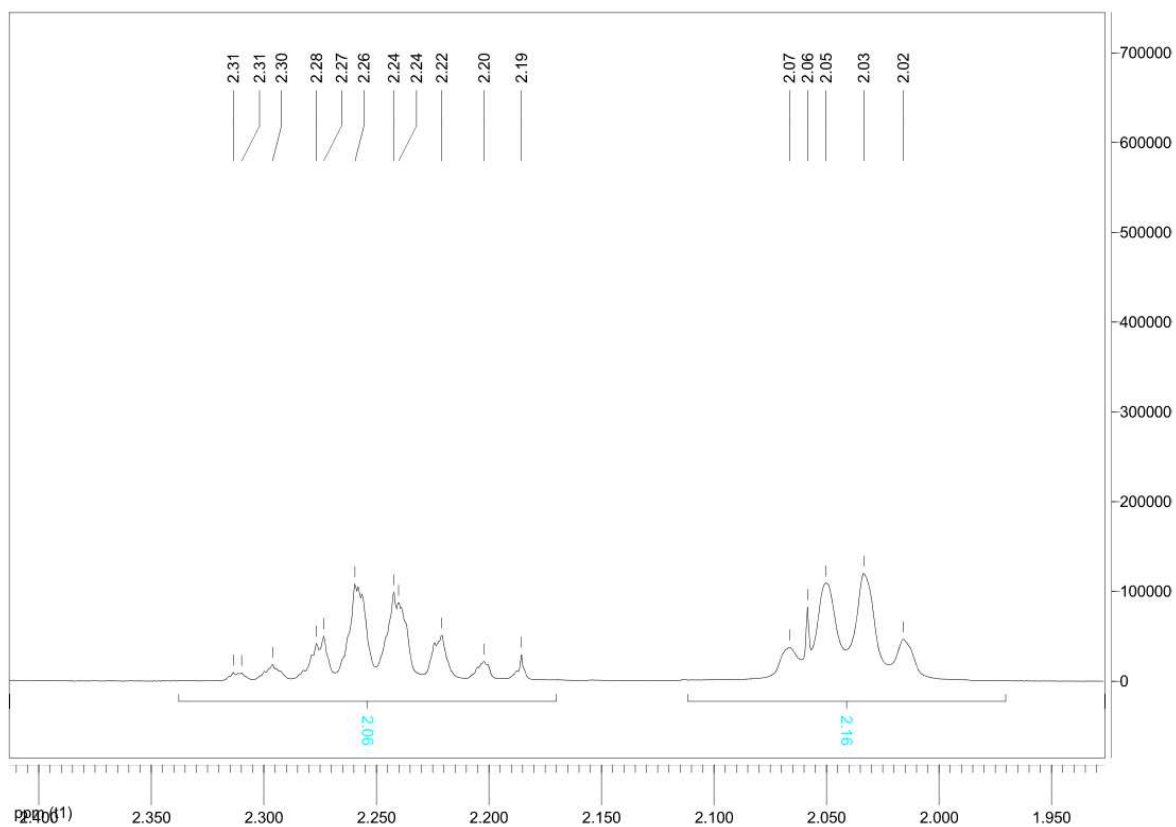


Figure S 1.12: ¹³C NMR of Compound **19** (100 MHz, Chloroform-*d*)

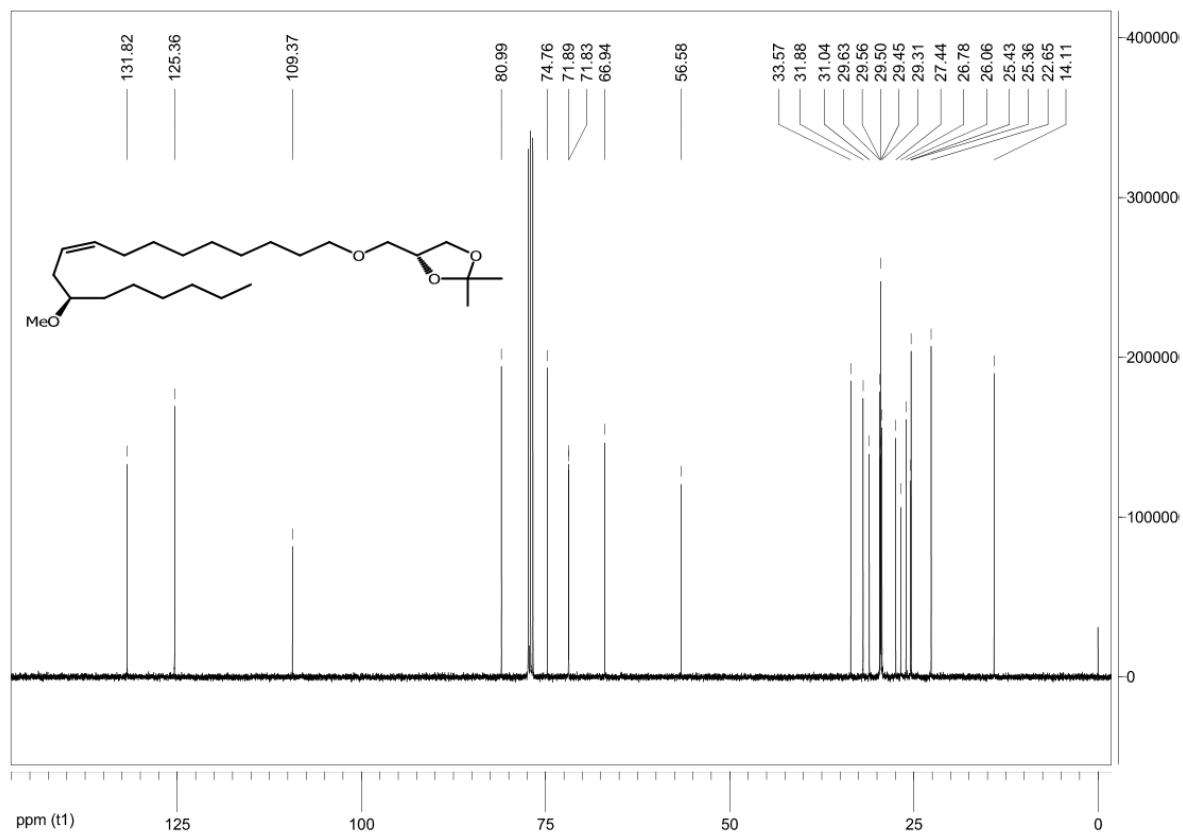
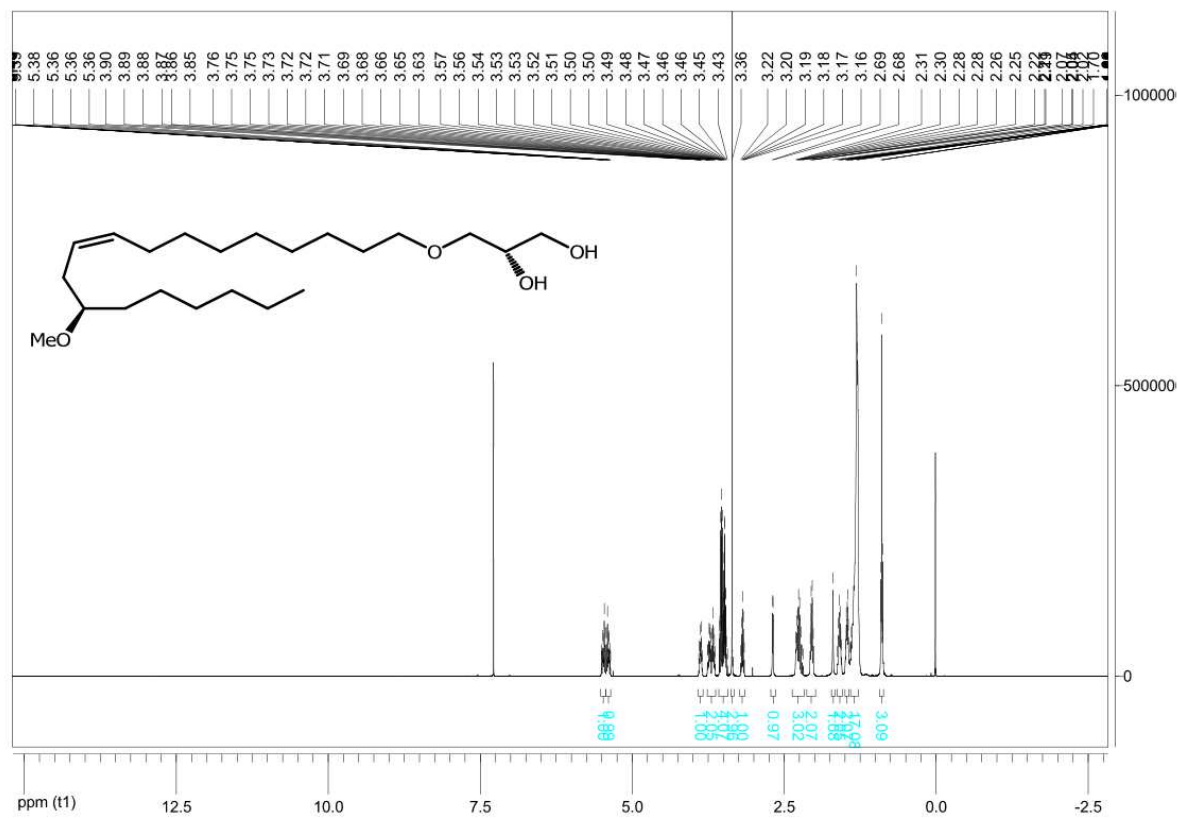
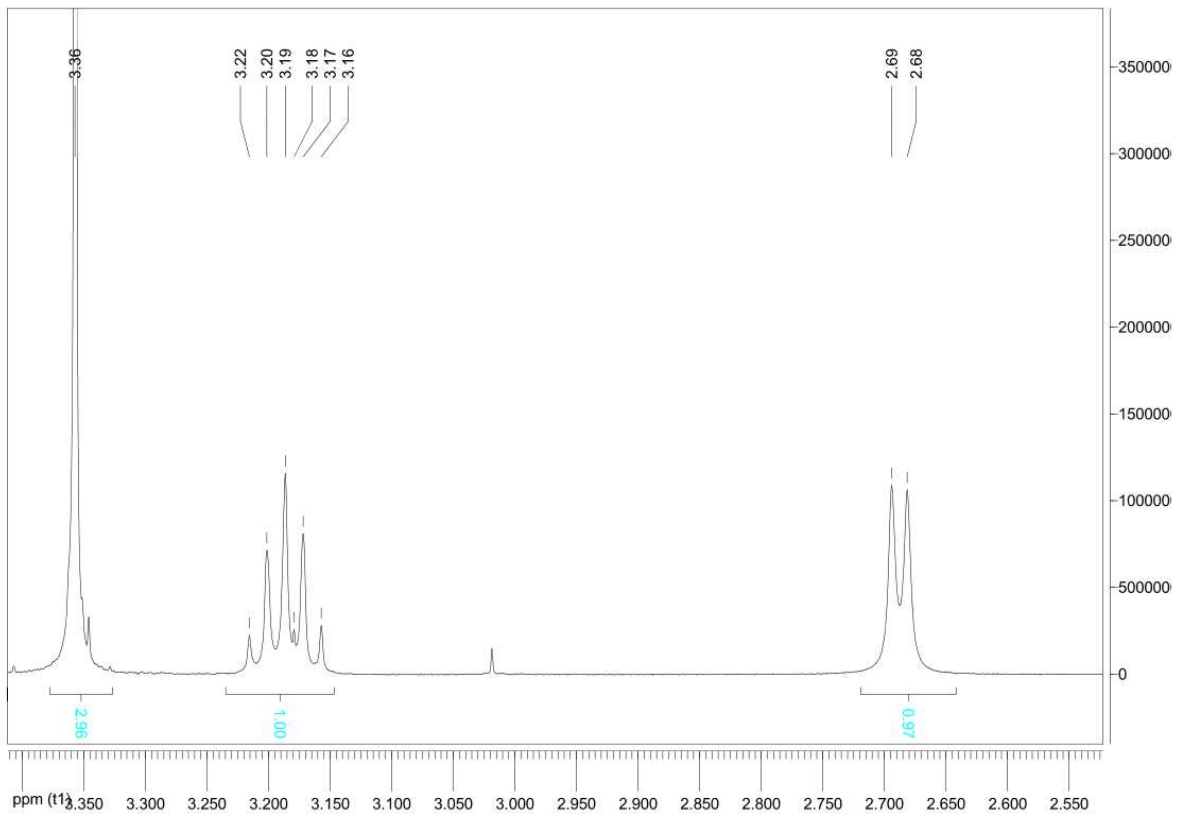
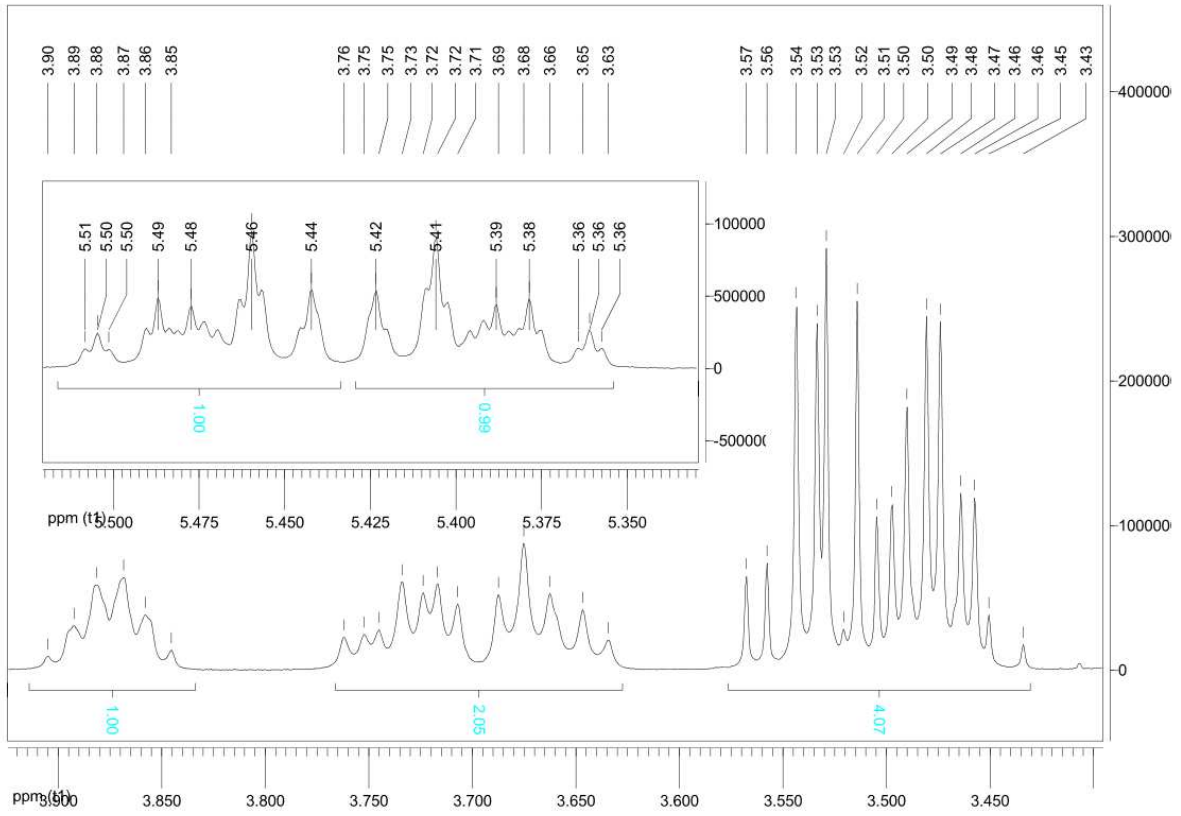


Figure S 1.13: ¹H NMR of Compound **8** (400 MHz, Chloroform-*d*)





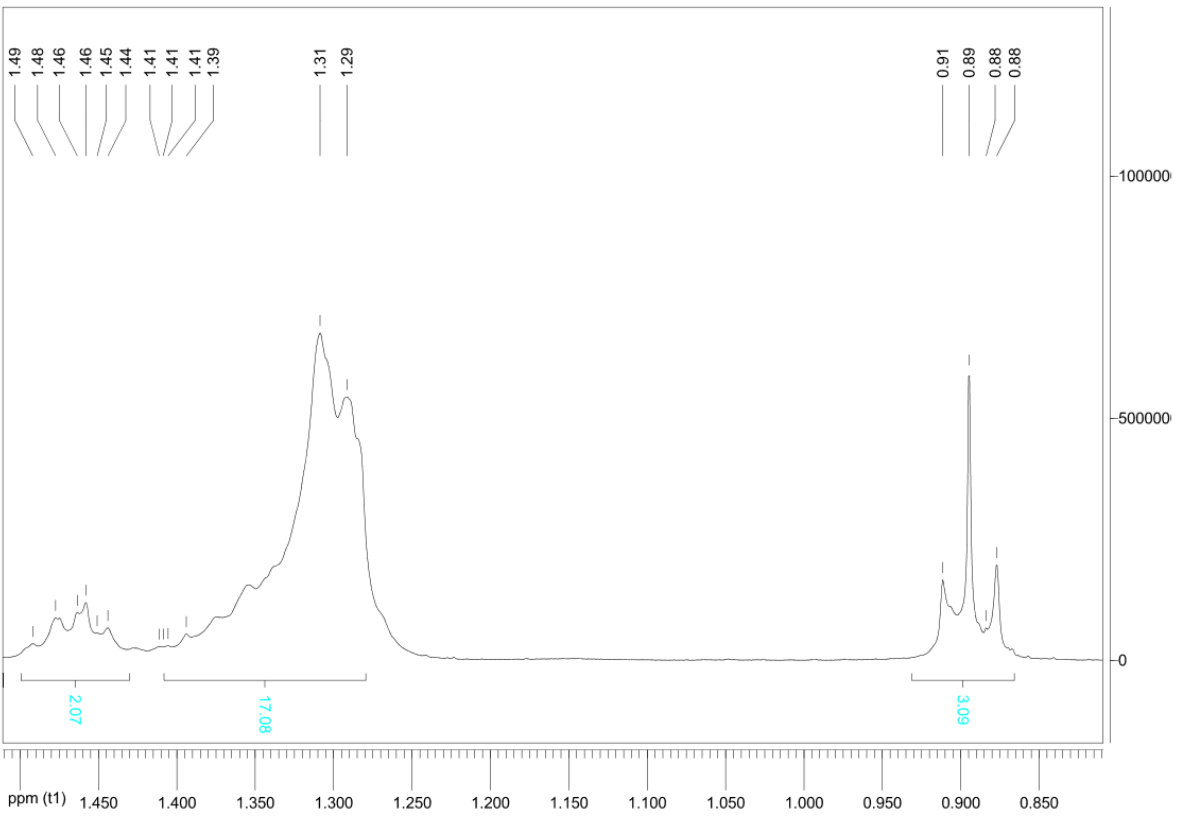
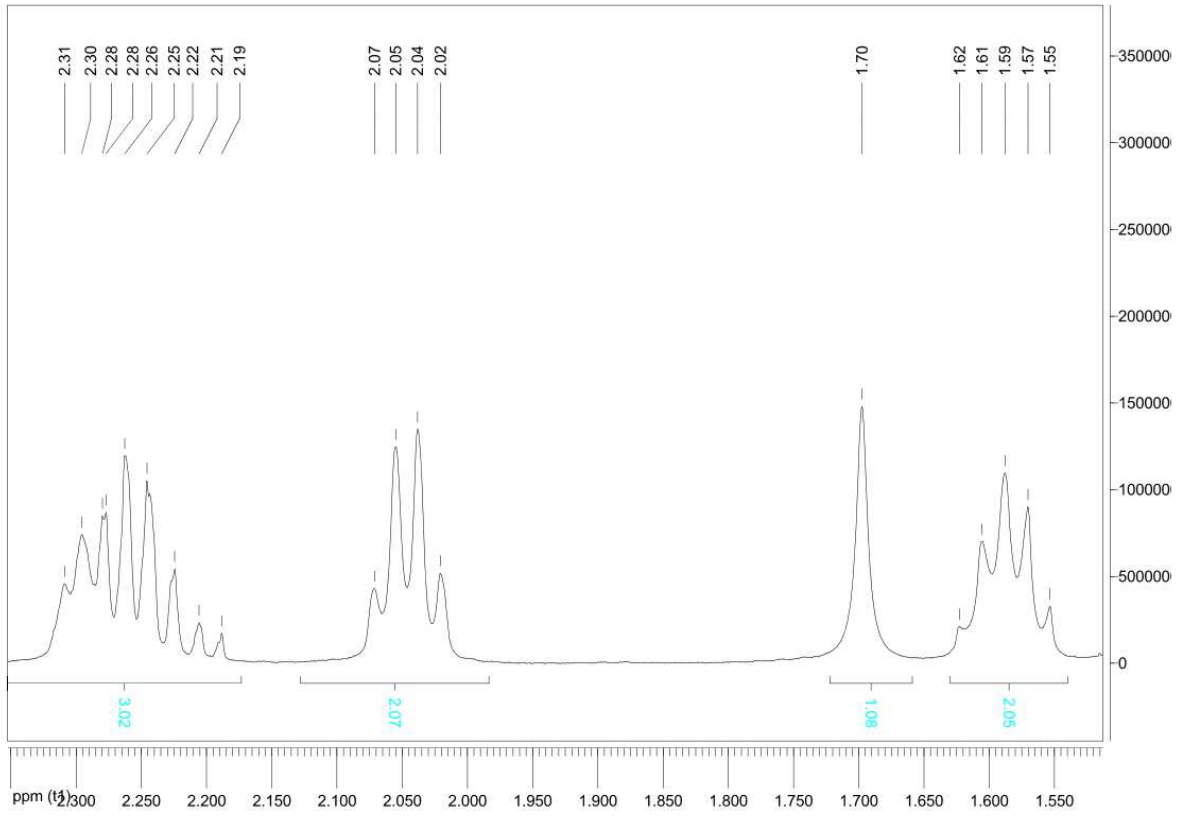


Figure S 1.14: ^{13}C NMR of Compound **8** (100 MHz, Chloroform-*d*)

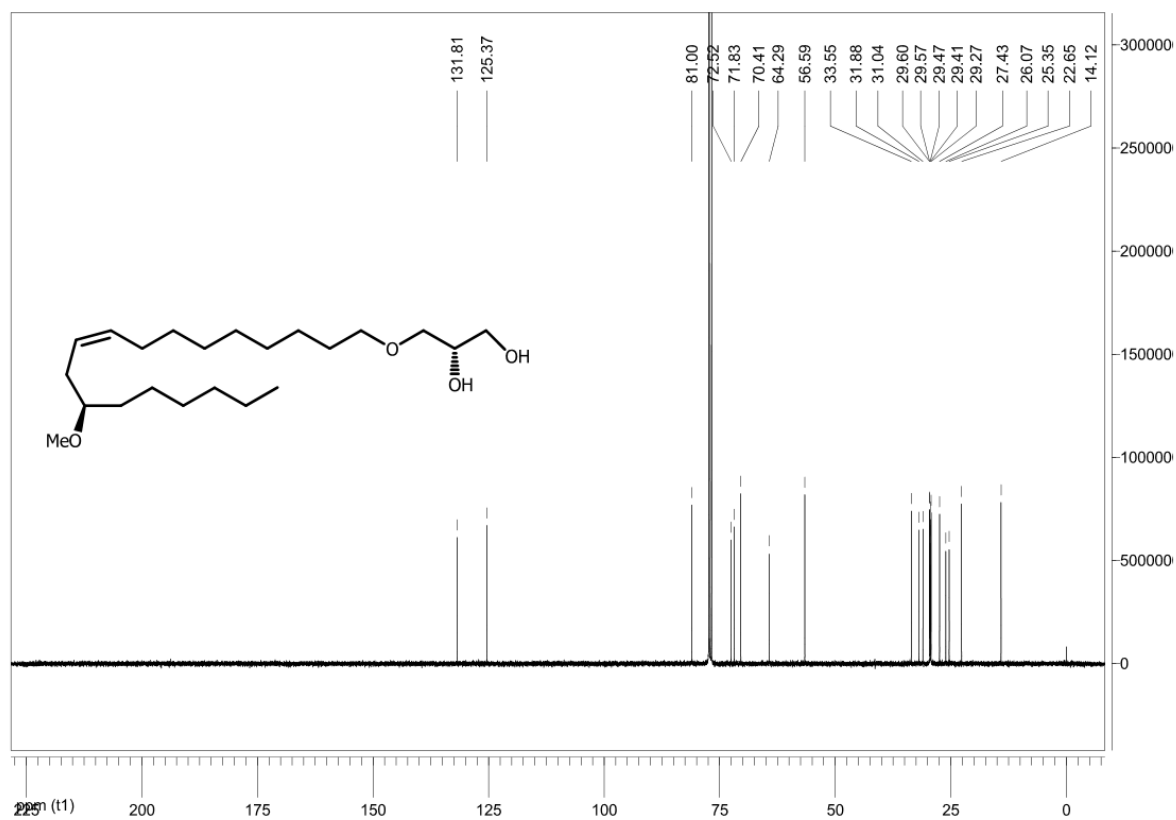
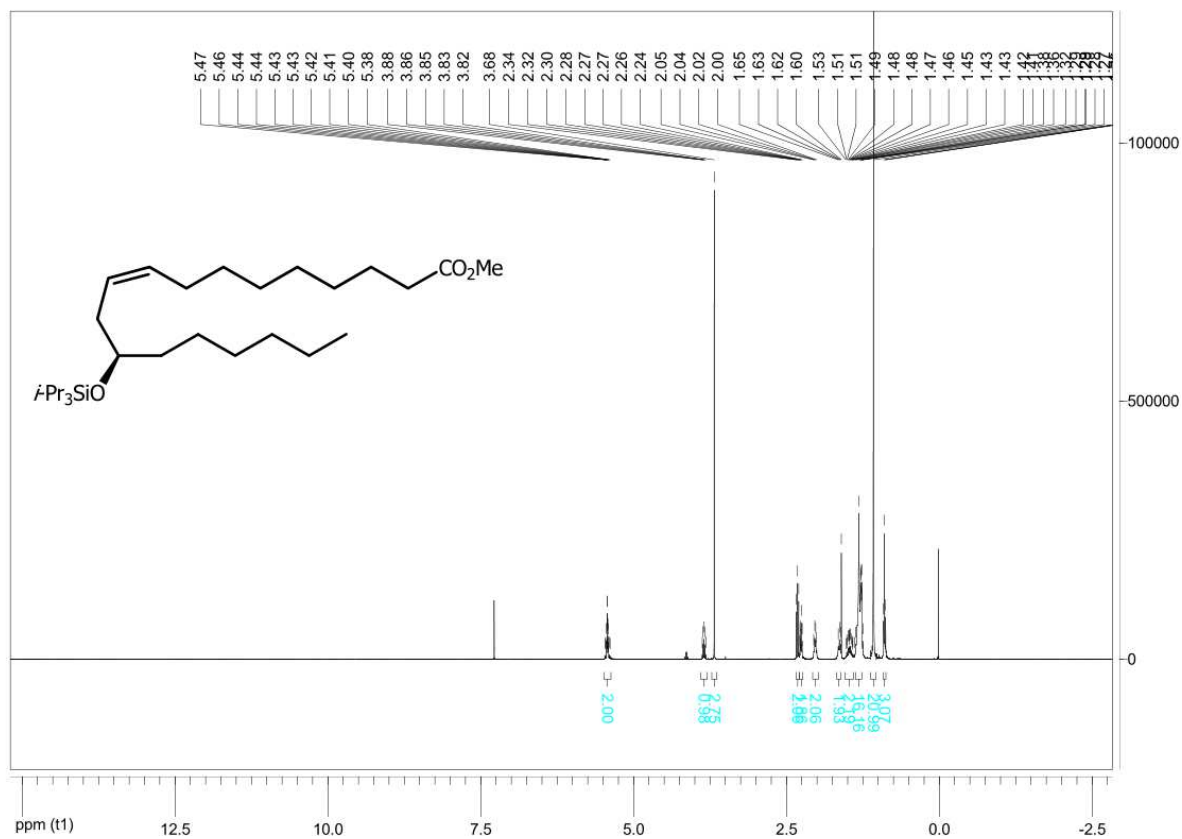


Figure S 2.1: ^1H NMR of Compound **20** (400 MHz, Chloroform-*d*)



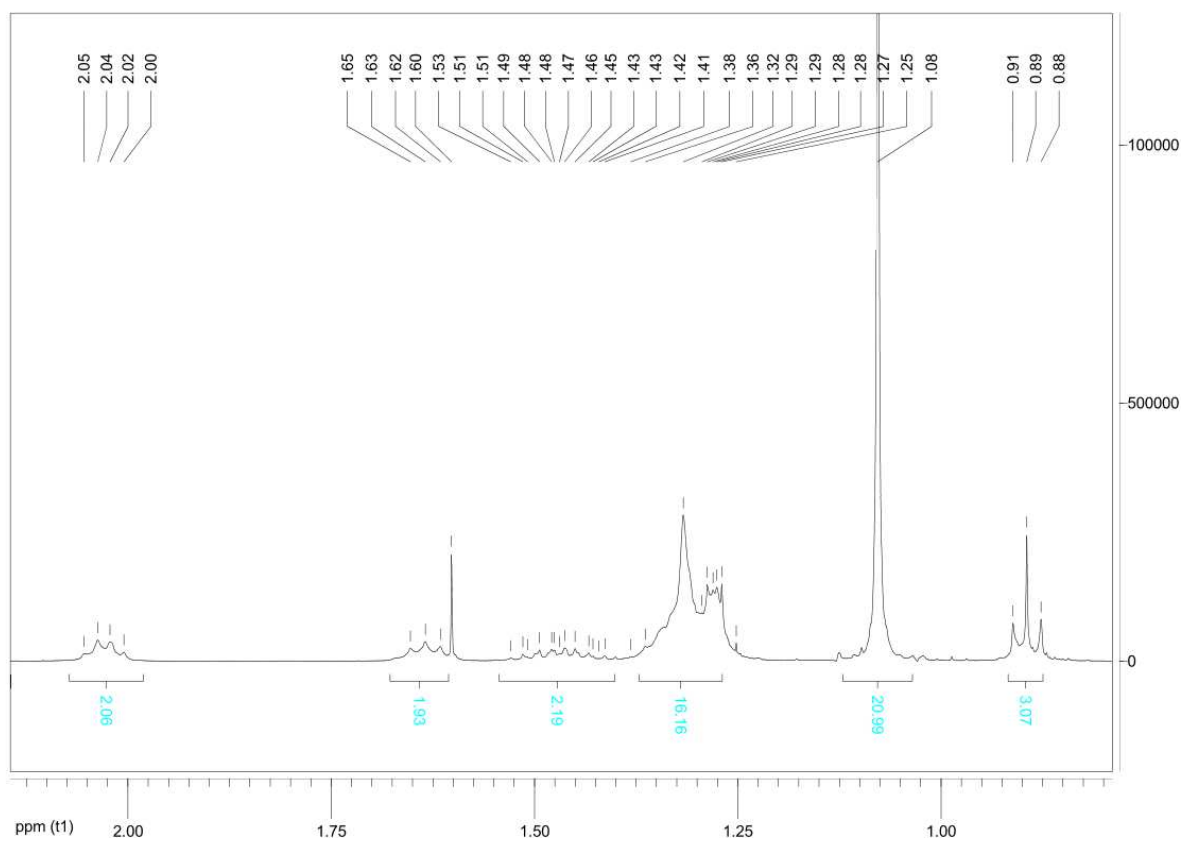
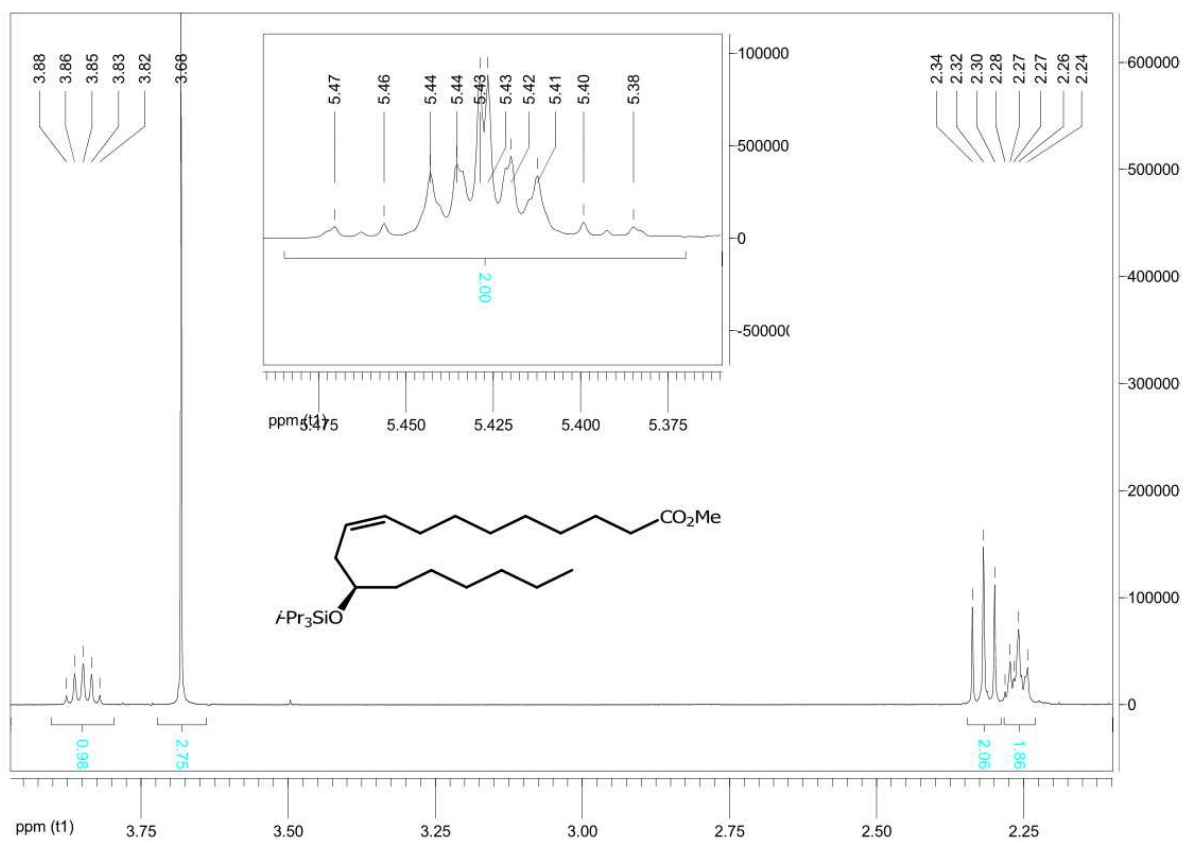


Figure S 2.2: ^{13}C NMR of Compound **20** (100 MHz, Chloroform-*d*)

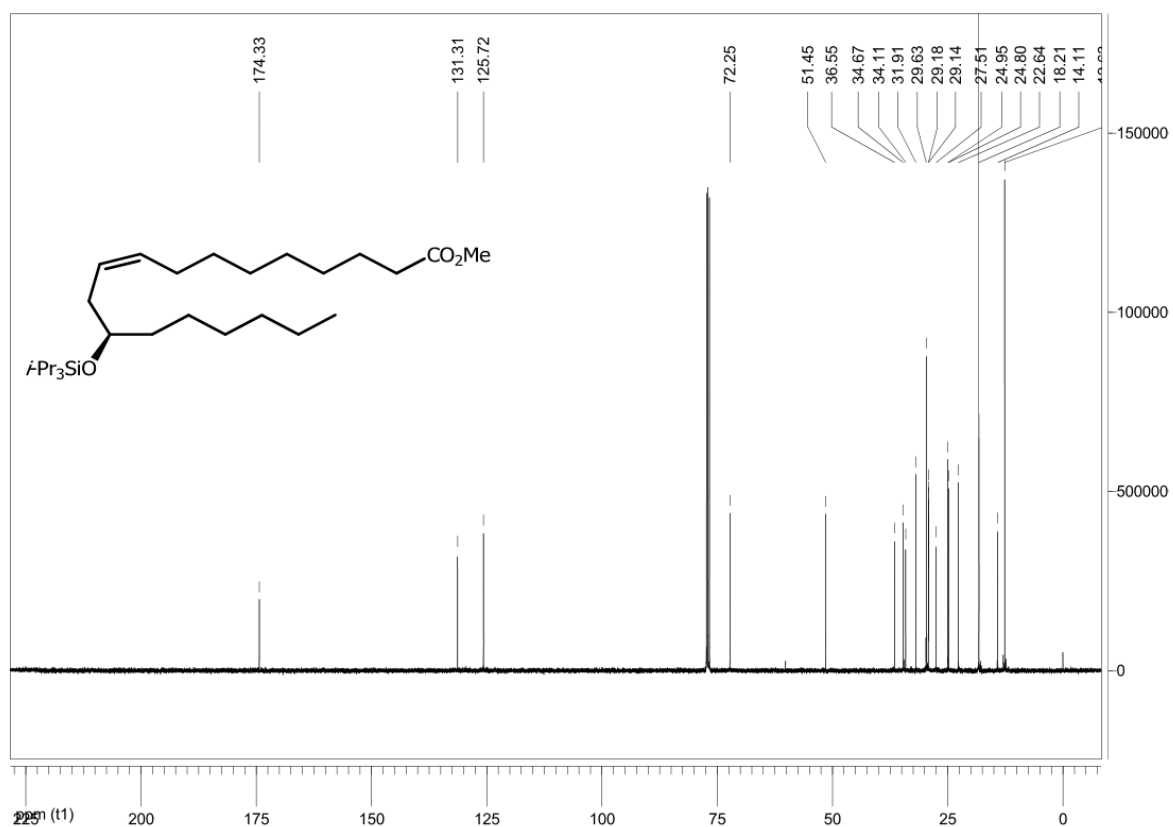
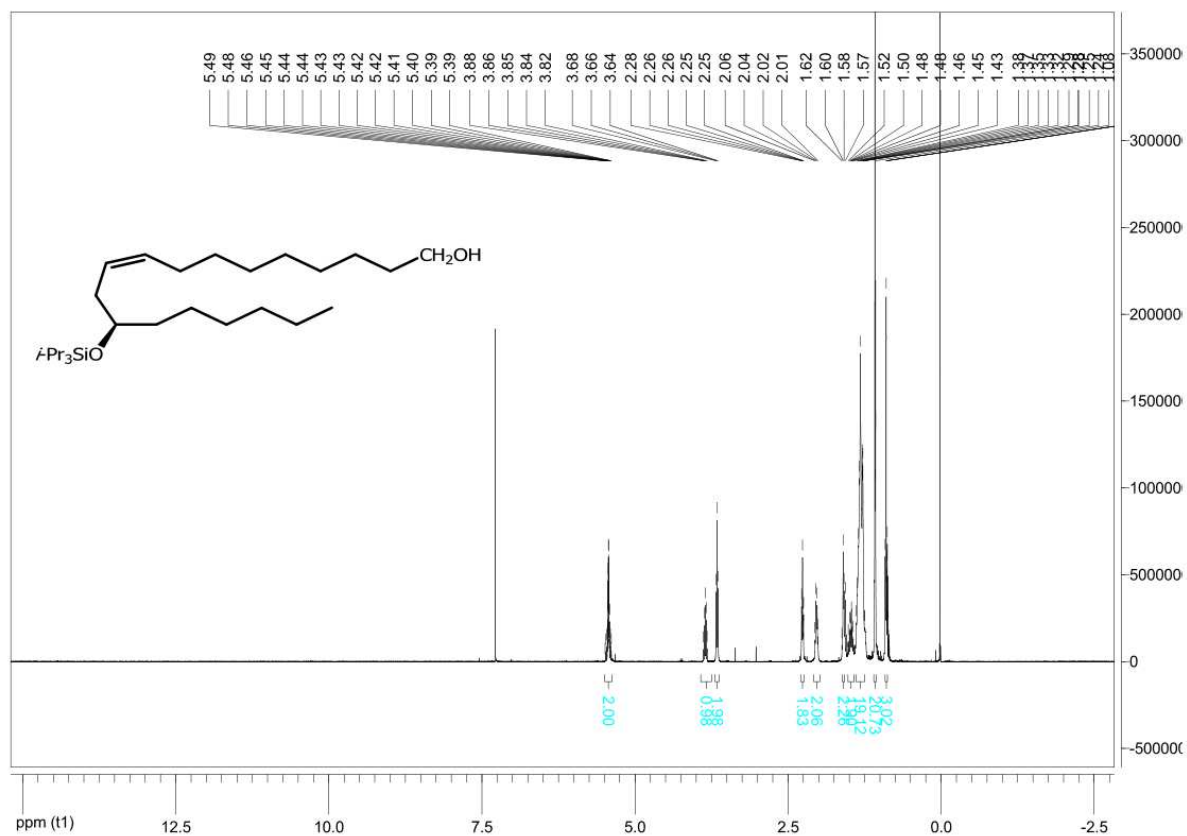


Figure S 2.3: ^1H NMR of Compound **21** (400 MHz, Chloroform-*d*)



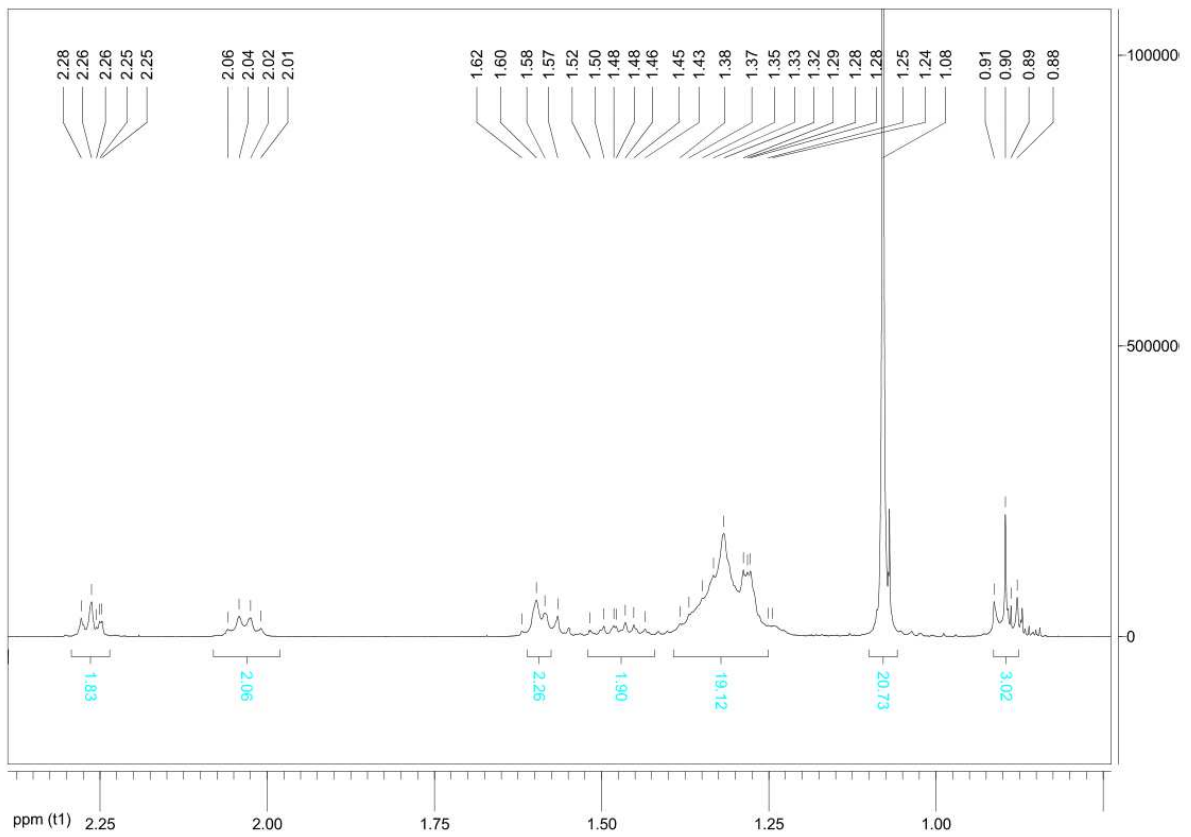
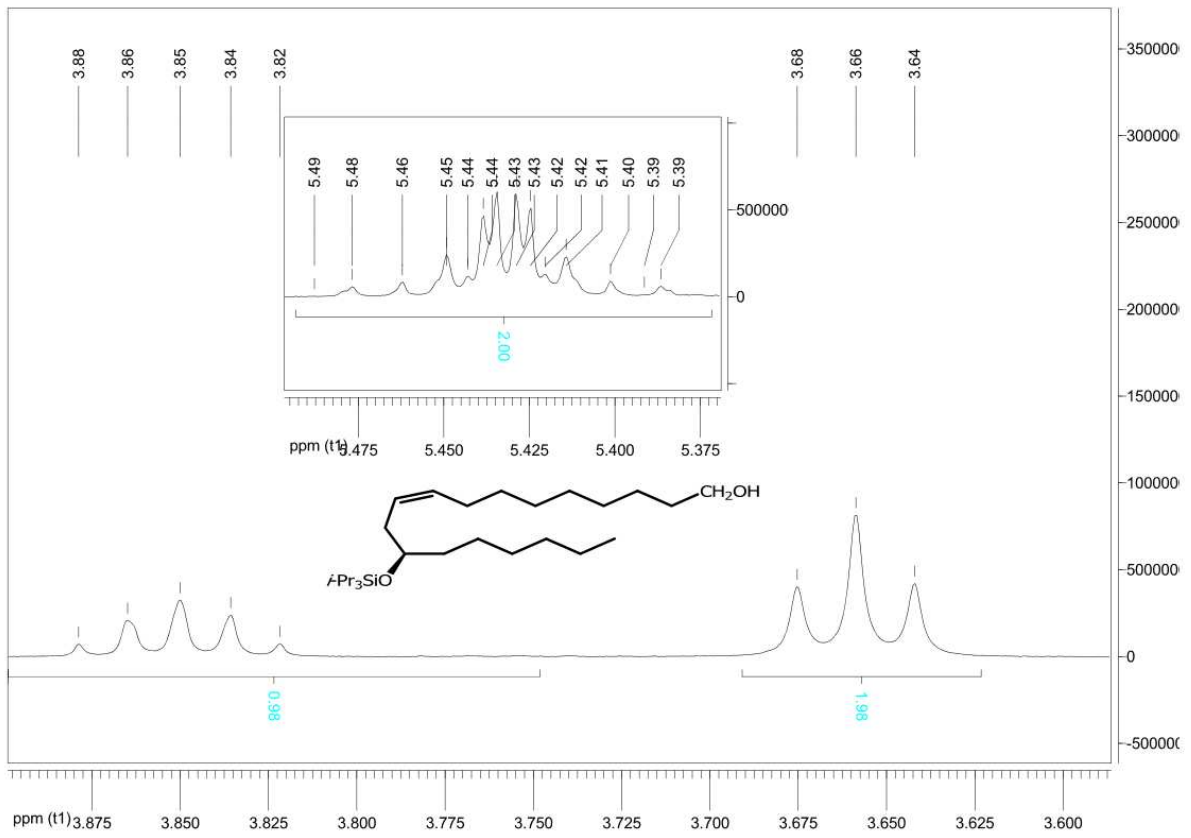


Figure S 2.4: ^{13}C NMR of Compound **21** (100 MHz, Chloroform-*d*)

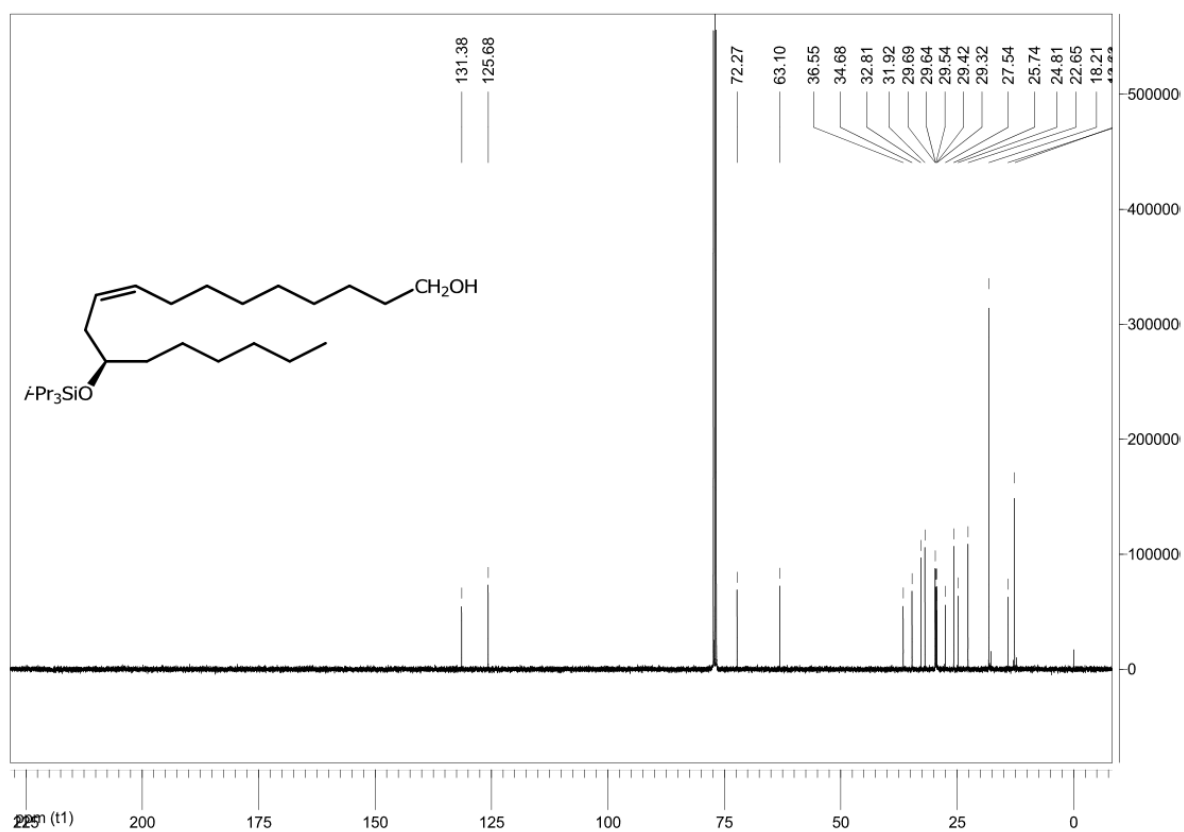
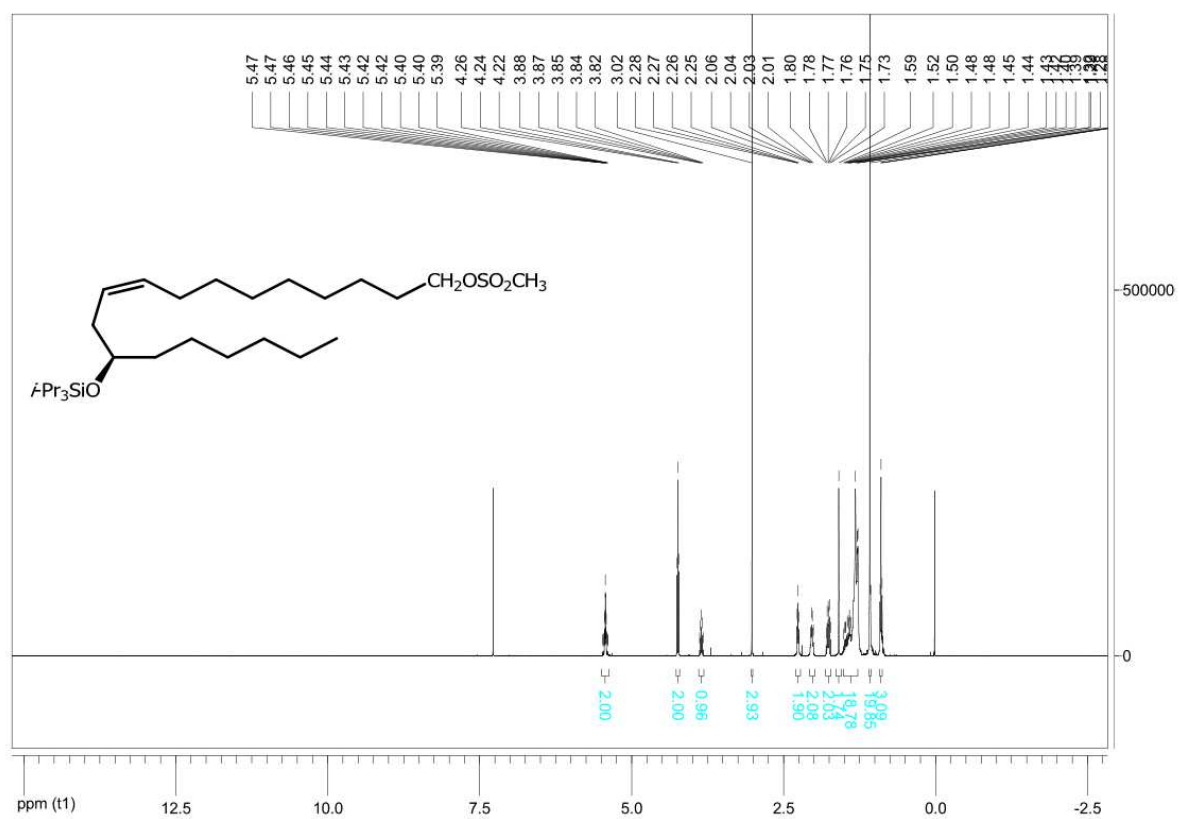


Figure S 2.5: ^1H NMR of Compound **22** (400 MHz, Chloroform-*d*)



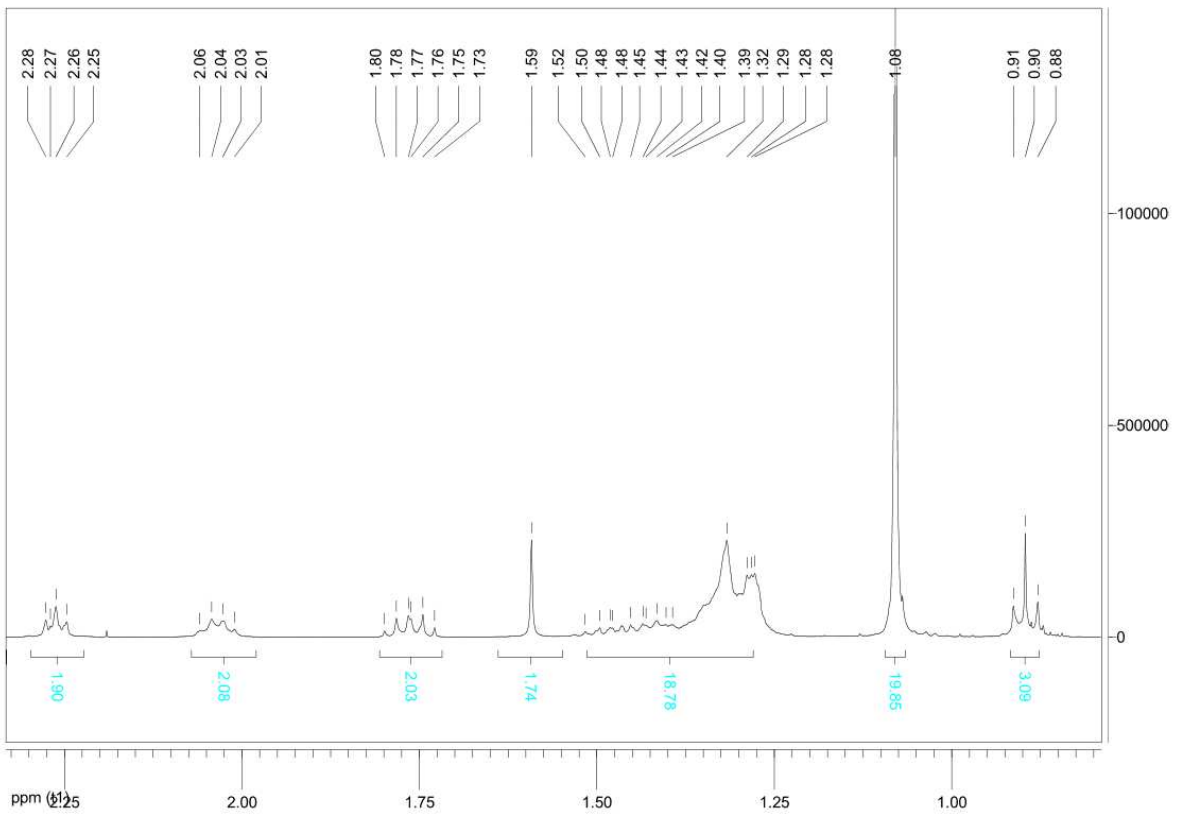
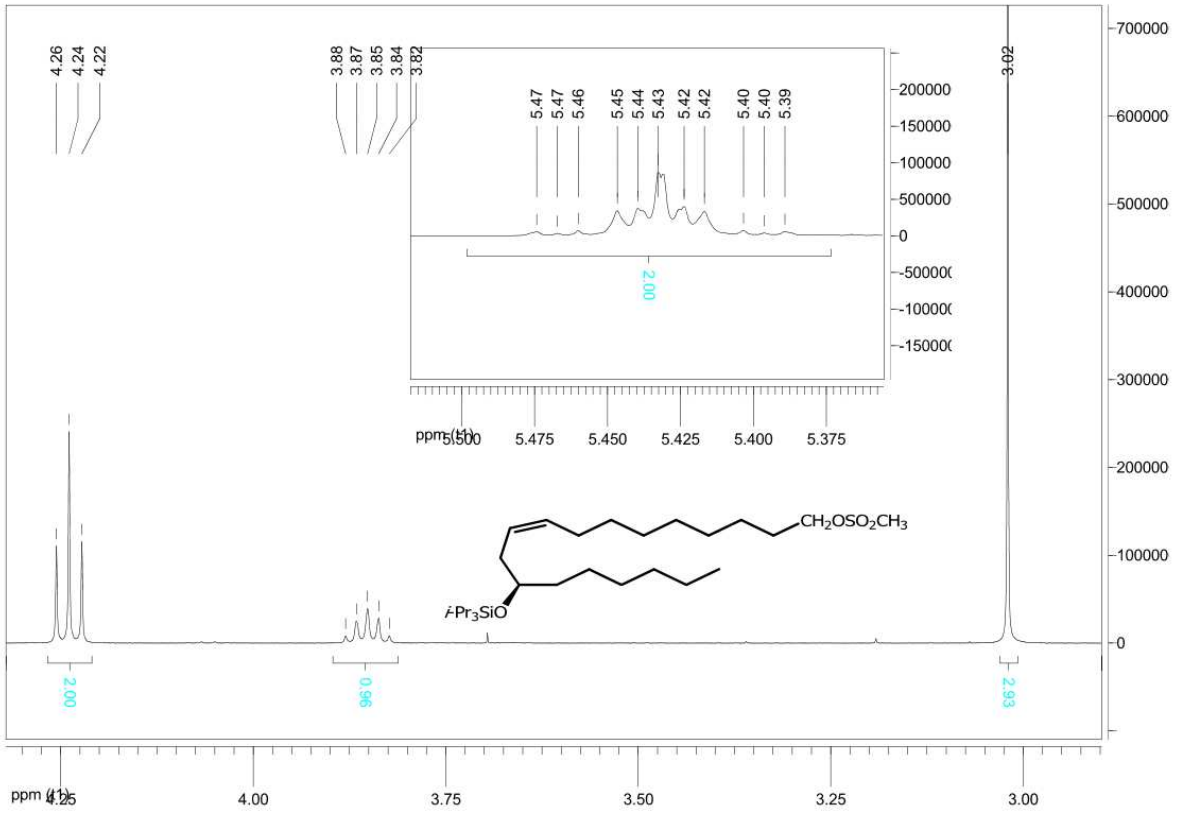


Figure S 2.6: ^{13}C NMR of Compound **22** (100 MHz, Chloroform-*d*)

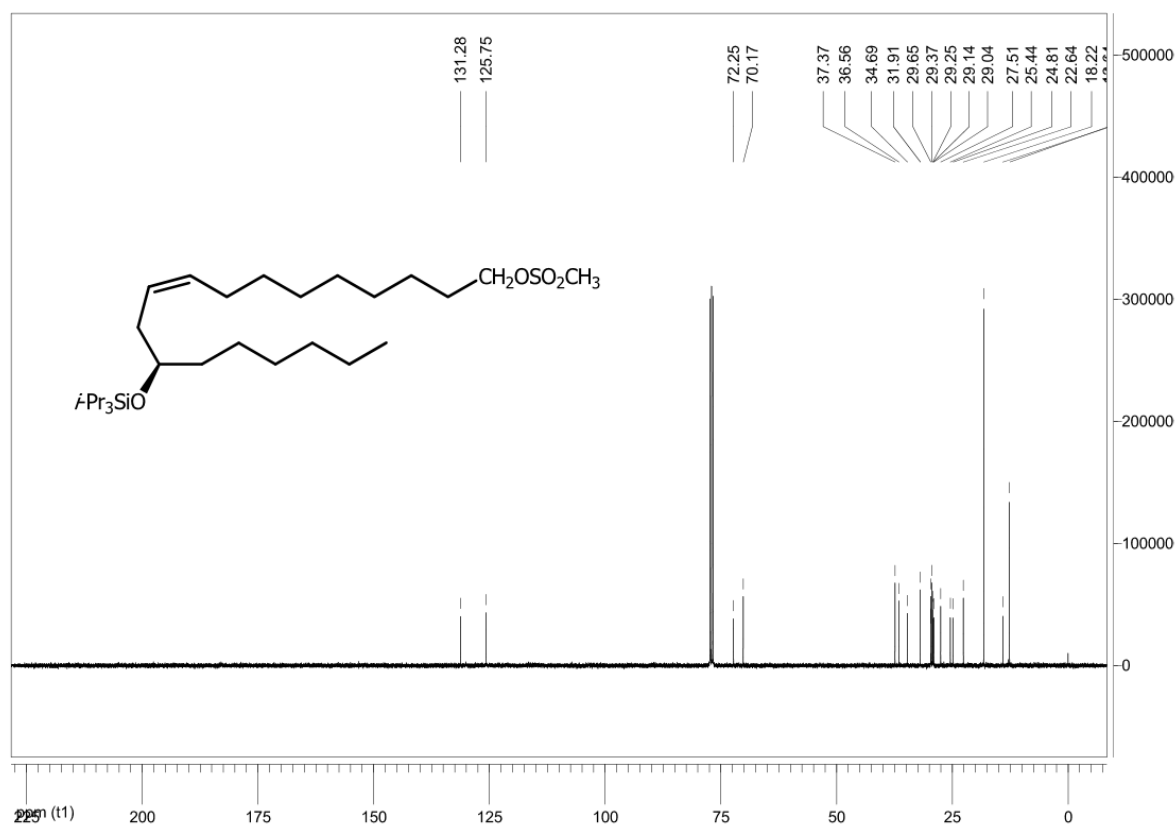
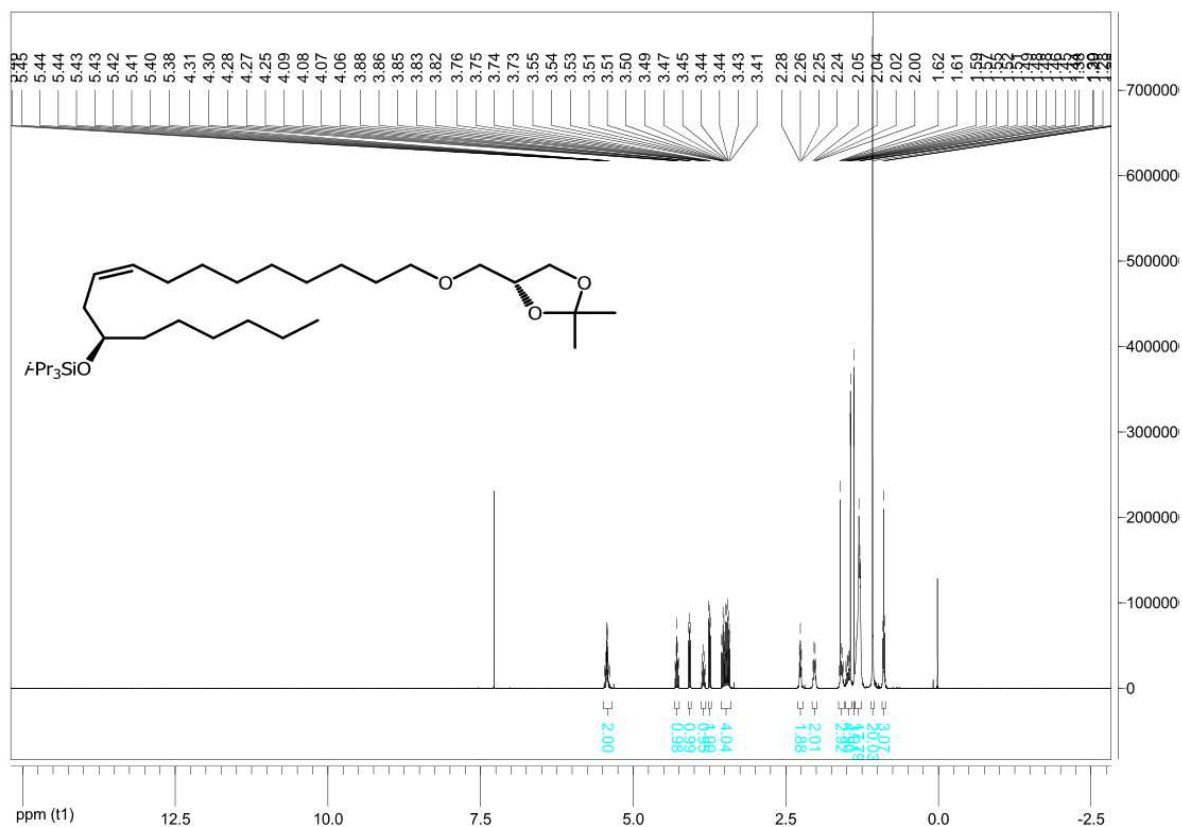


Figure S 2.7: ^1H NMR of Compound **23** (400 MHz, Chloroform-*d*)



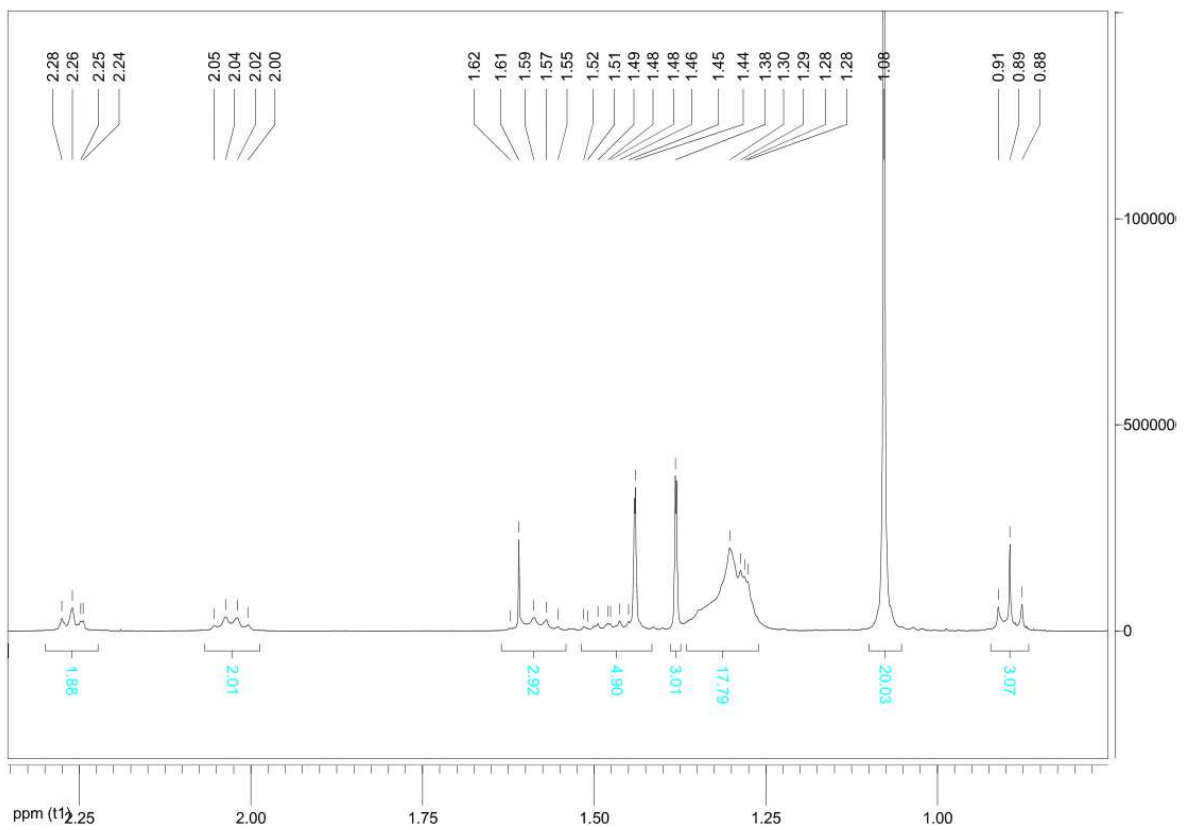
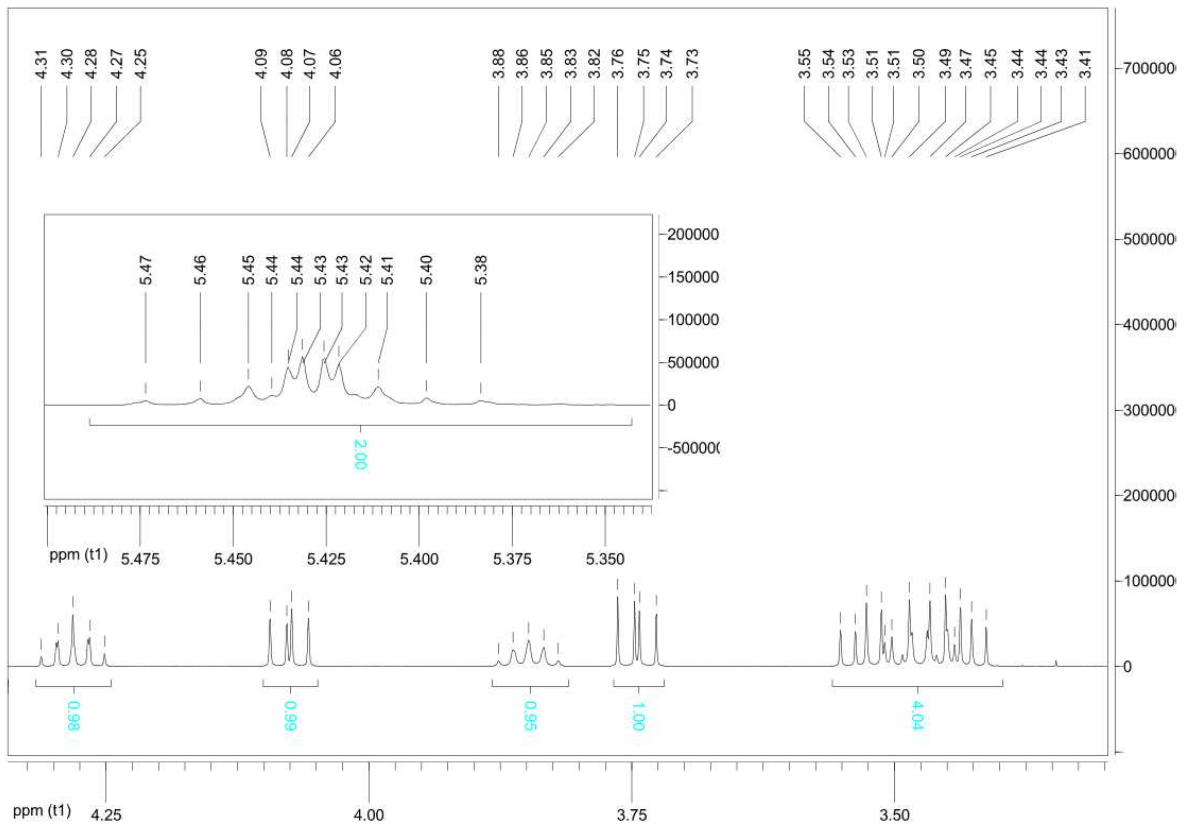


Figure S 2.8: ^{13}C NMR of Compound **23** (100 MHz, Chloroform-*d*)

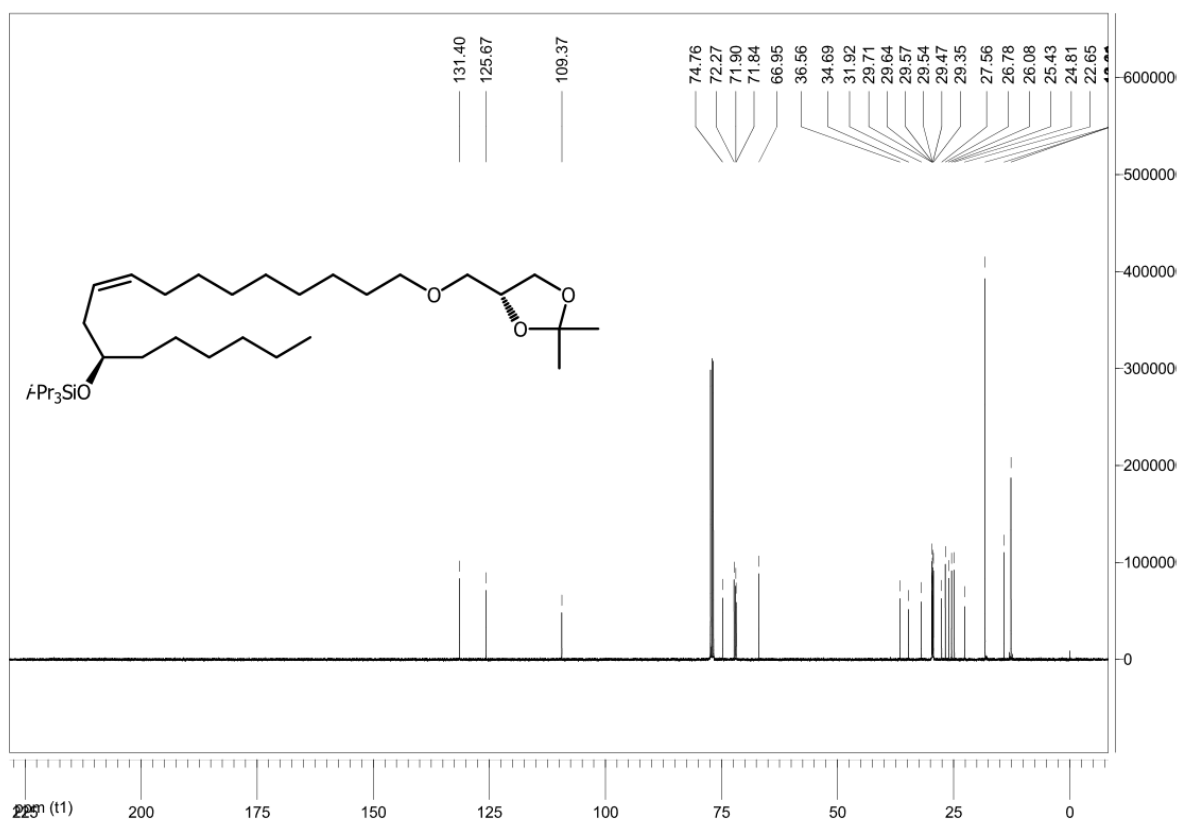
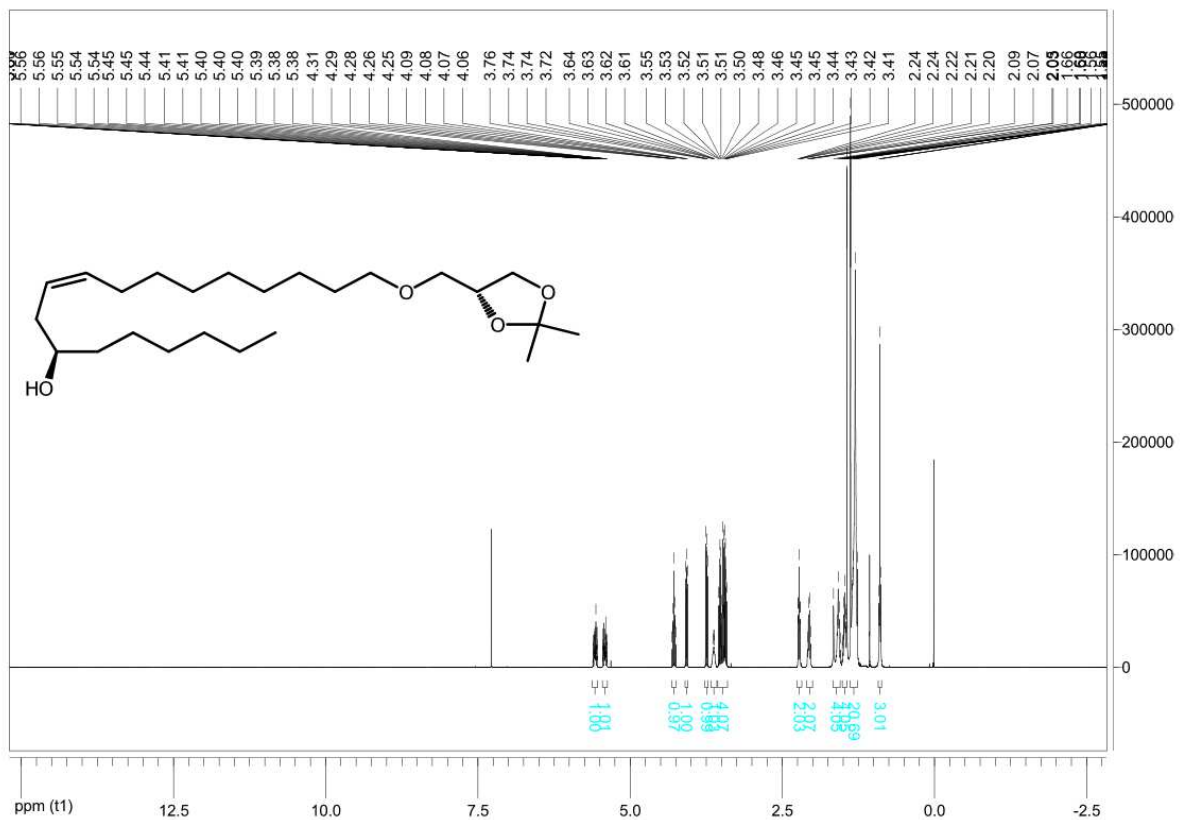
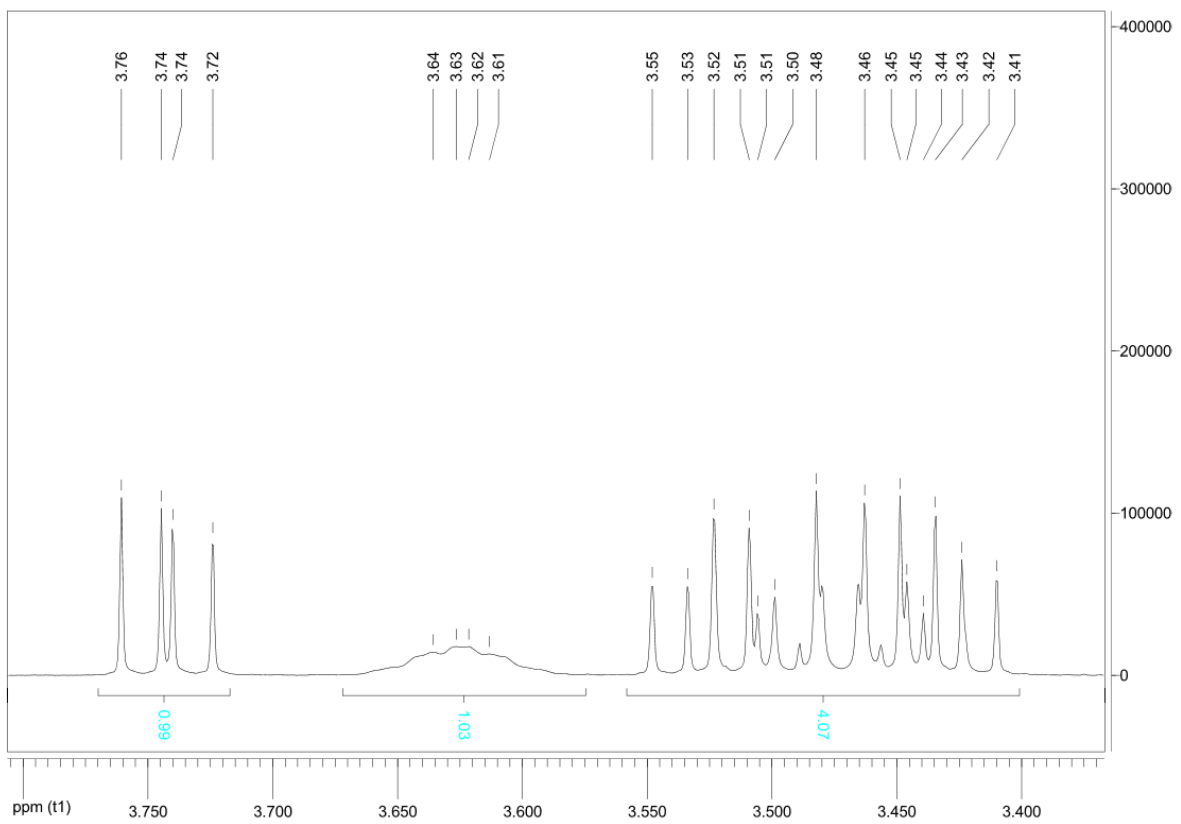
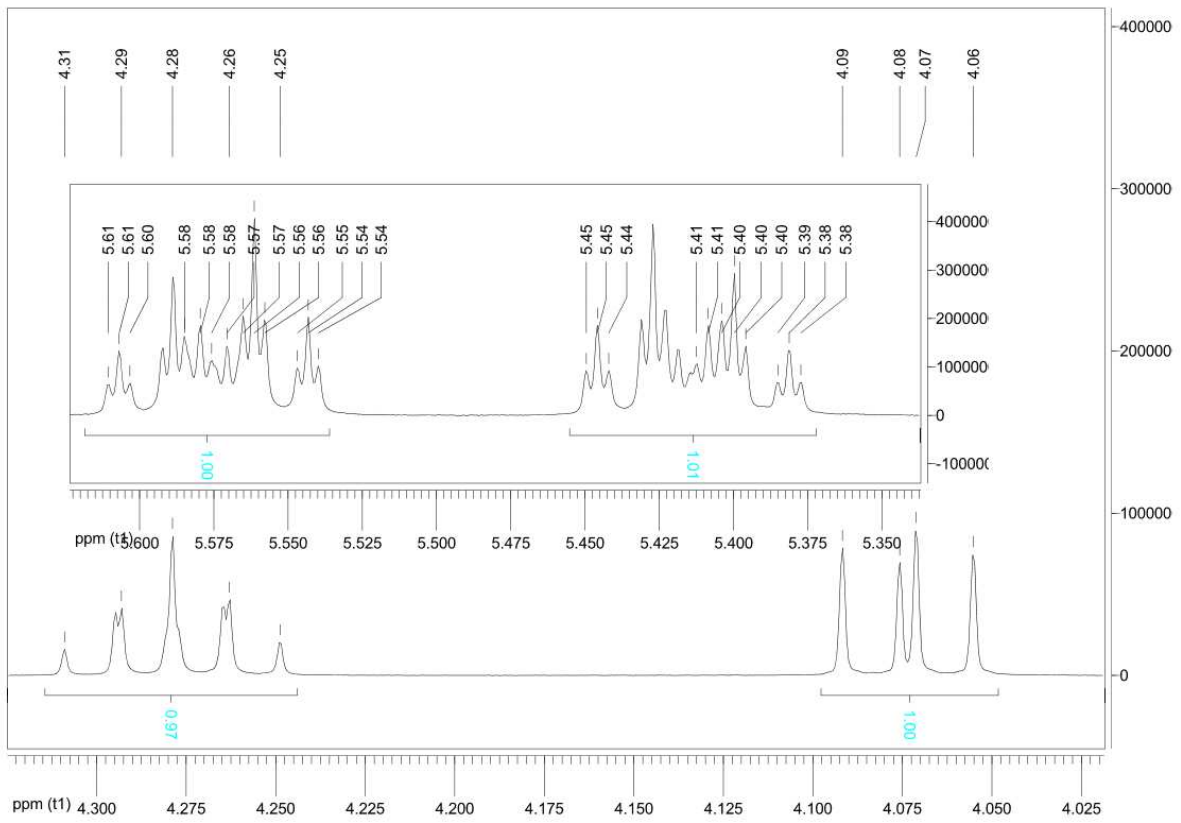


Figure S 2.9: ^1H NMR of Compound **24** (400 MHz, Chloroform-*d*)





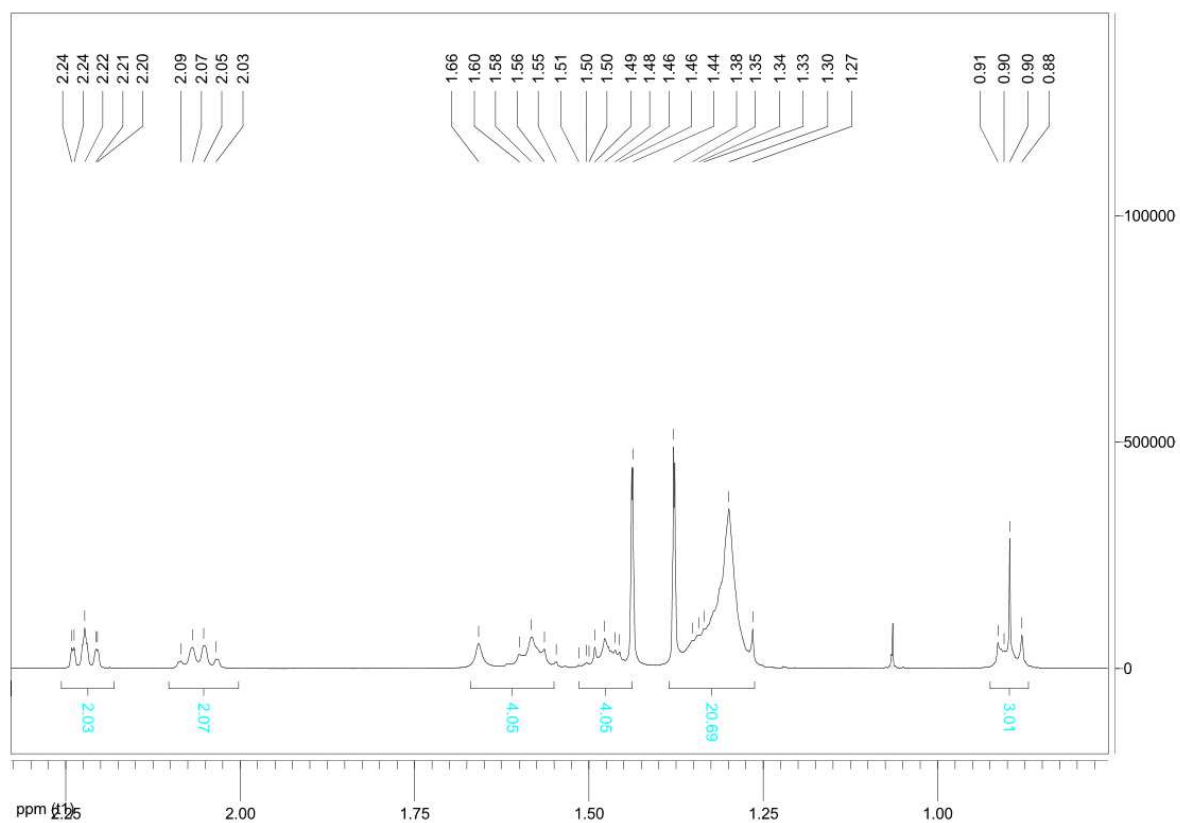


Figure S 2.10: ^{13}C NMR of Compound **24** (100 MHz, Chloroform-*d*)

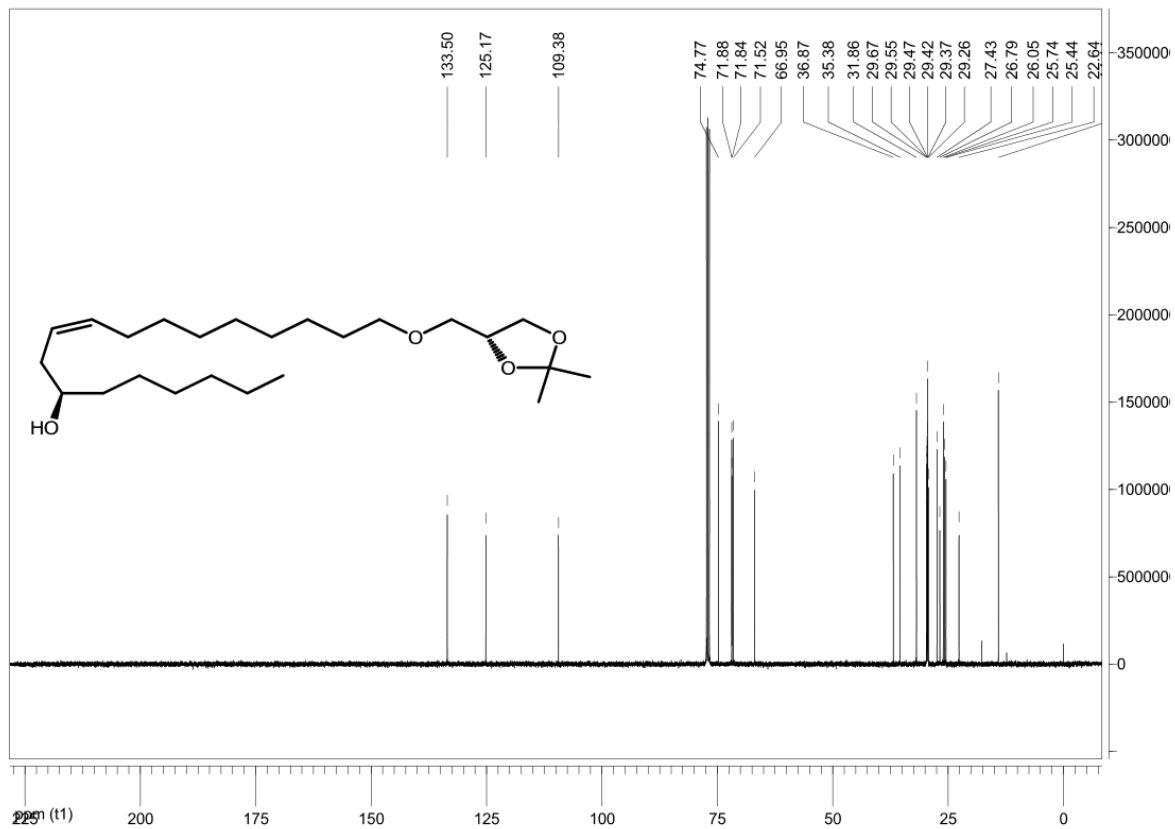
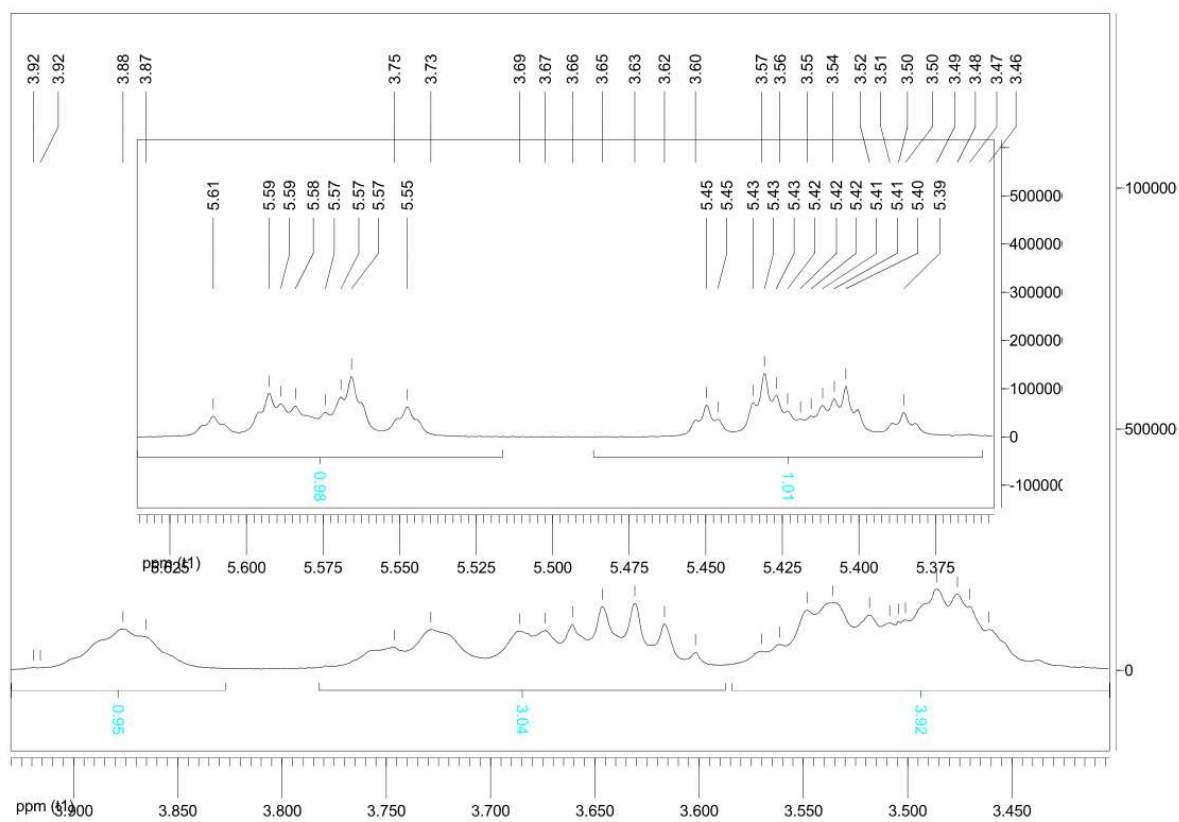
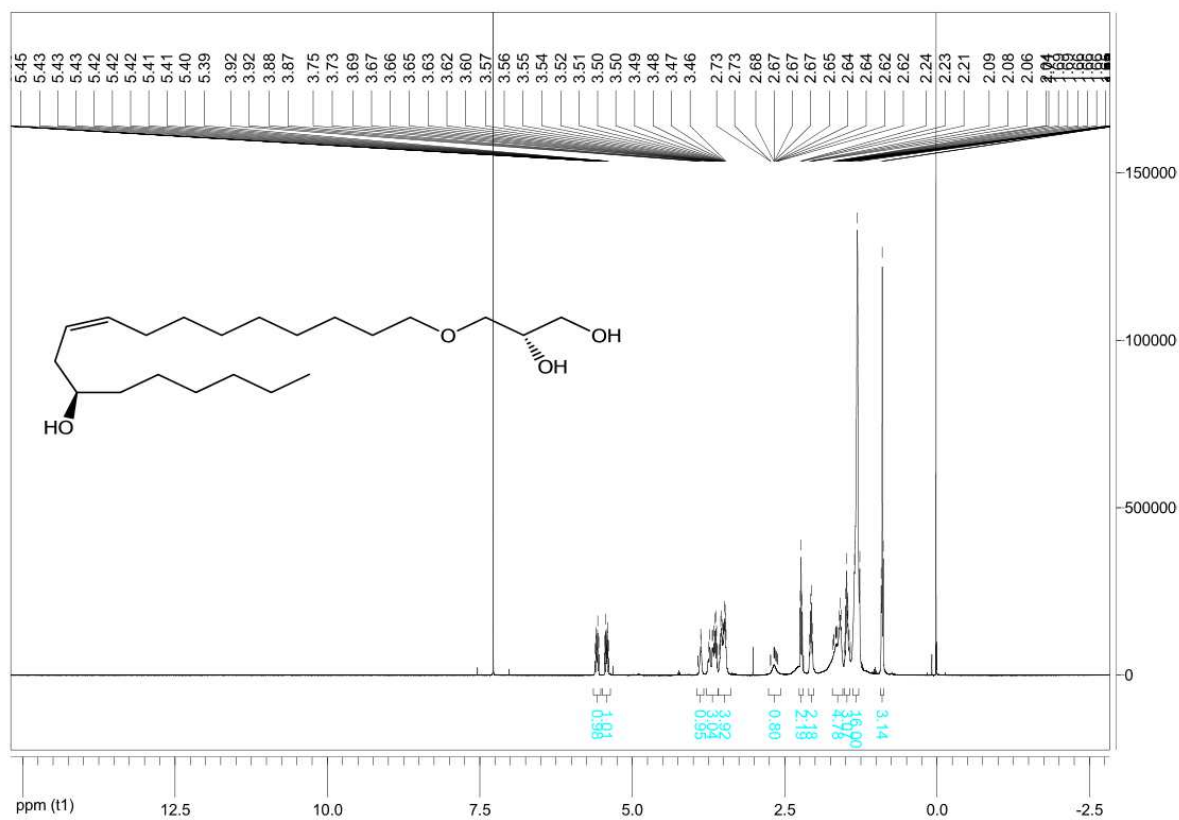
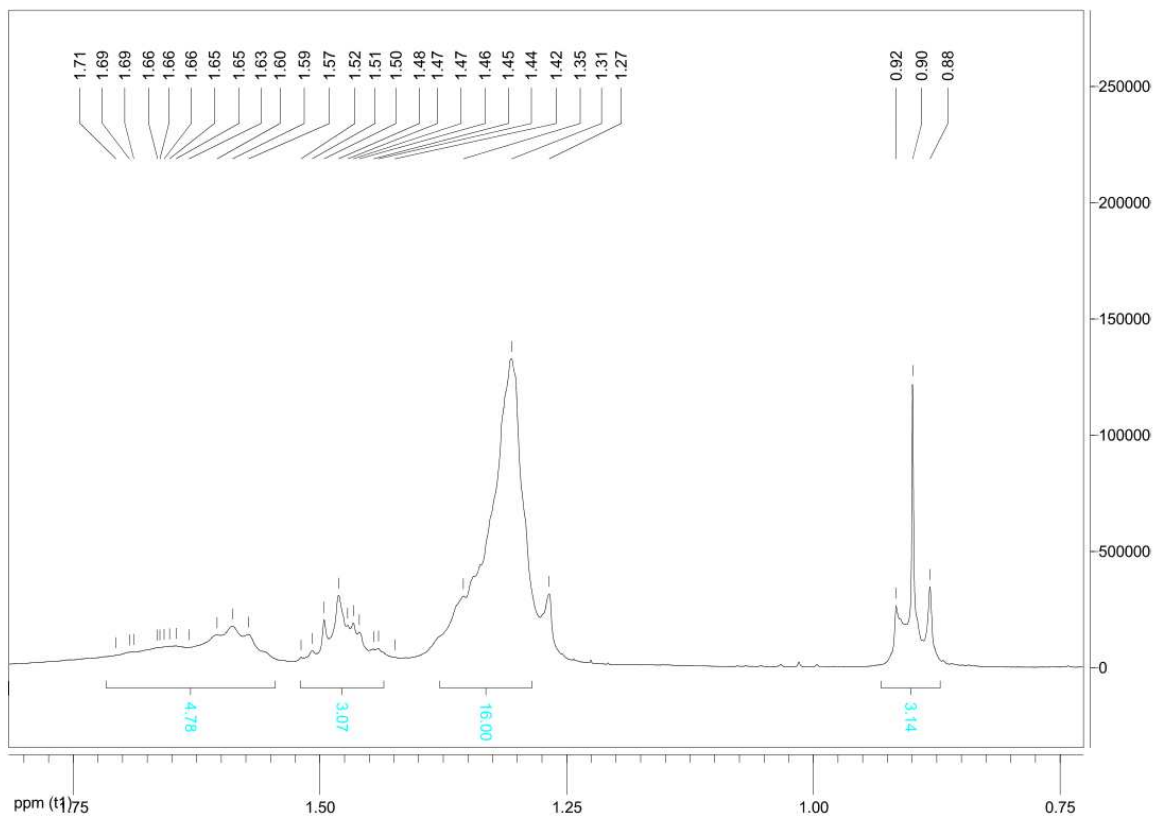
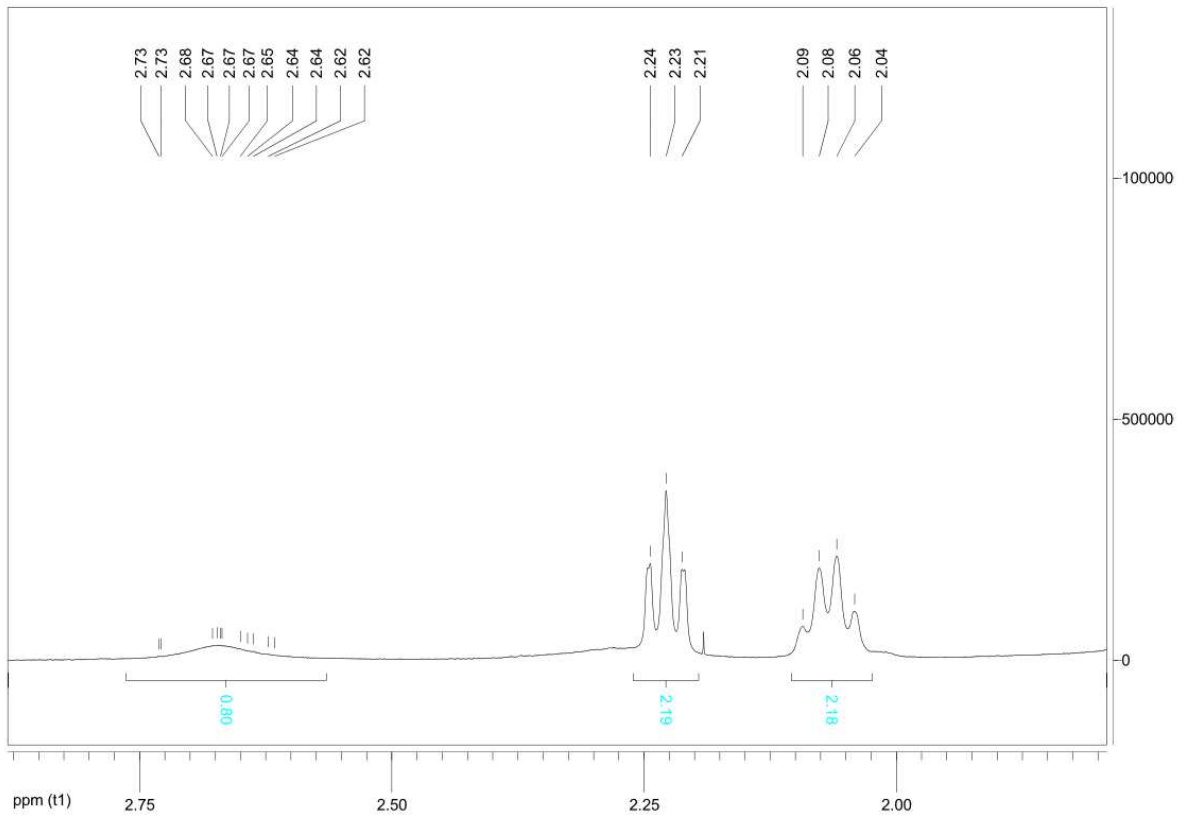


Figure S 2.11: ^1H NMR of Compound **11** (400 MHz, Chloroform-*d*)





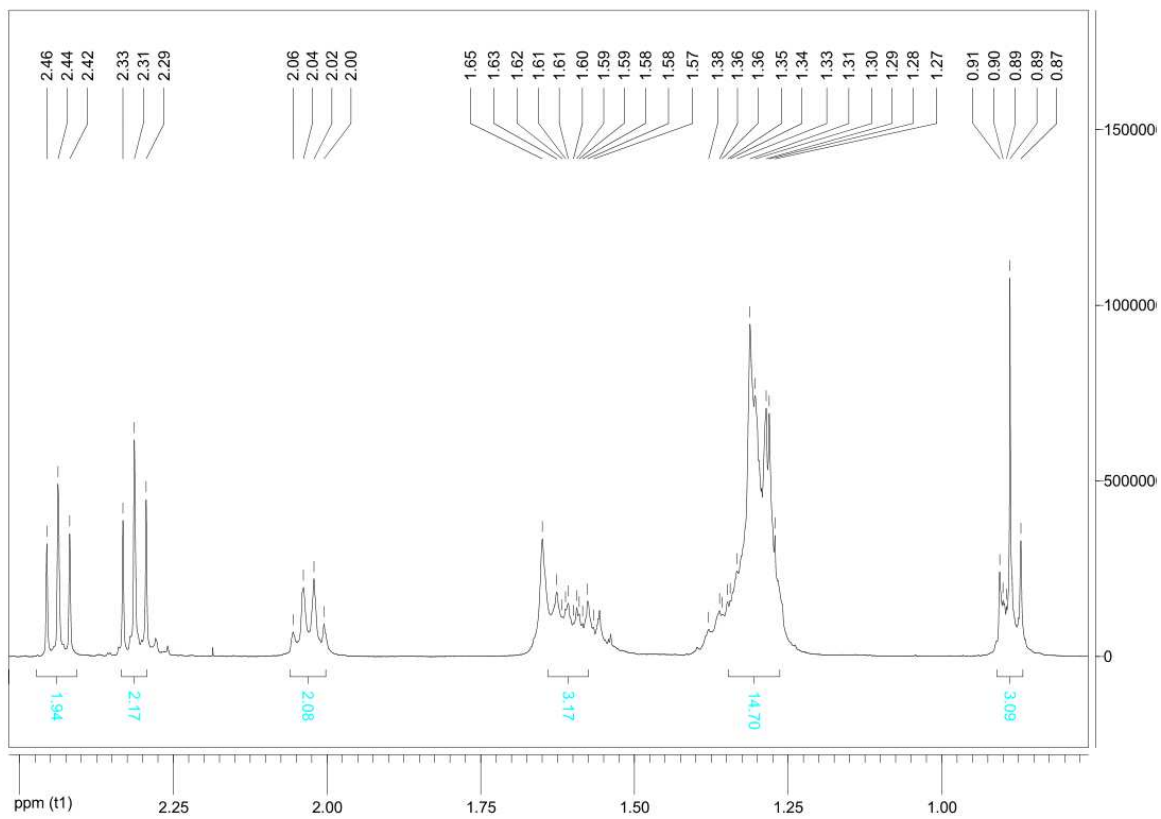
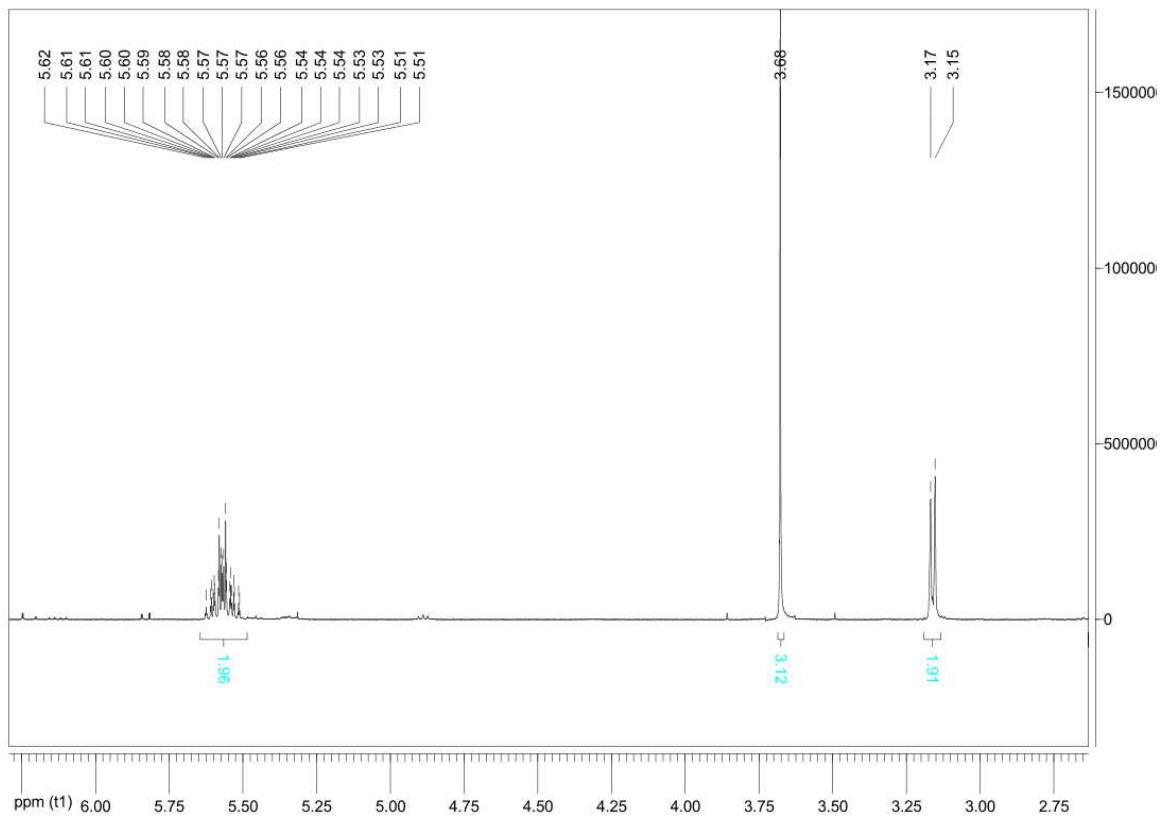


Figure S 3.2: ^{13}C NMR of Compound **25** (100 MHz, Chloroform-*d*)

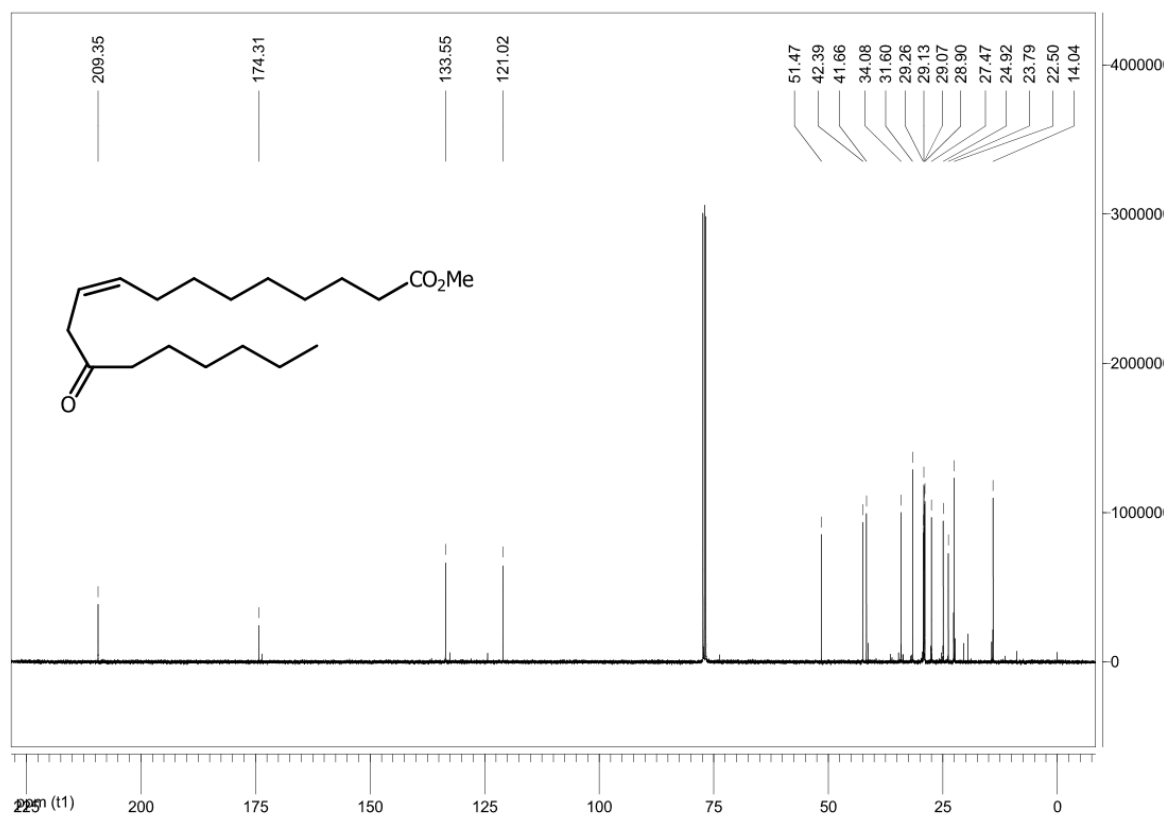
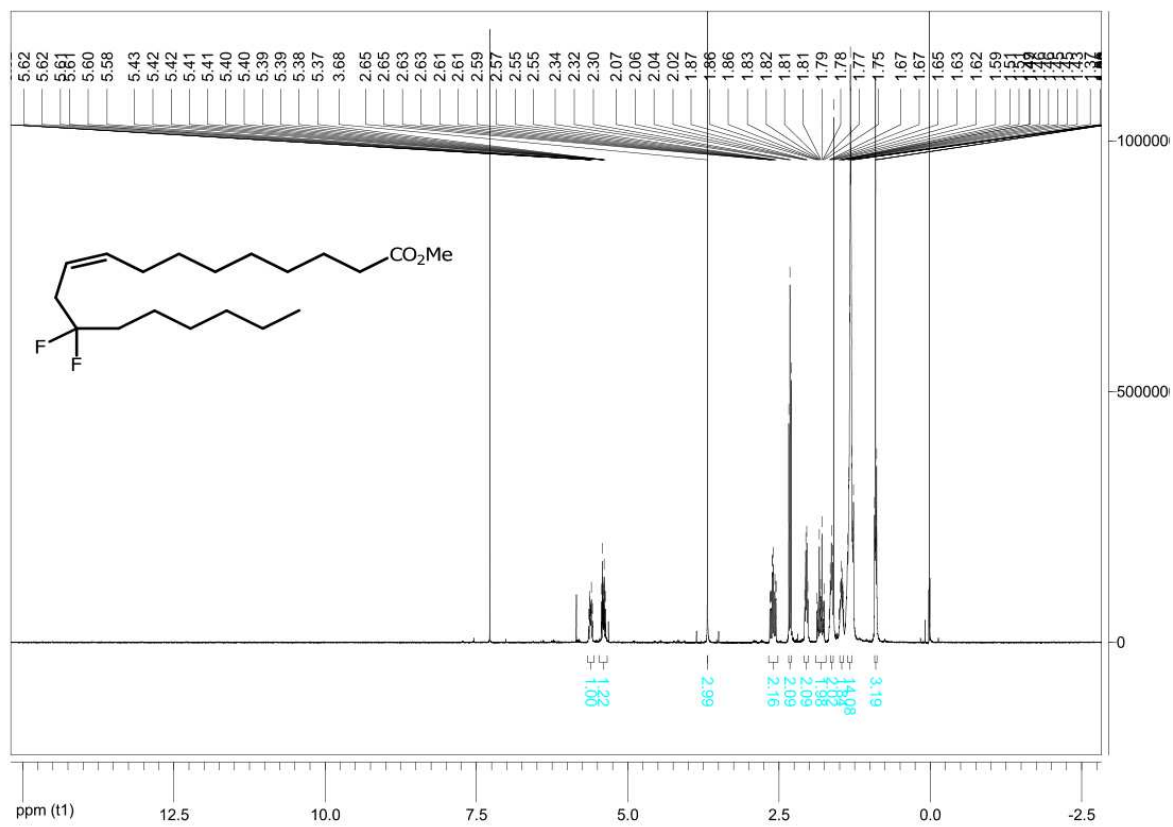


Figure S 3.3: ^1H NMR of Compound **26** (400 MHz, Chloroform-*d*)



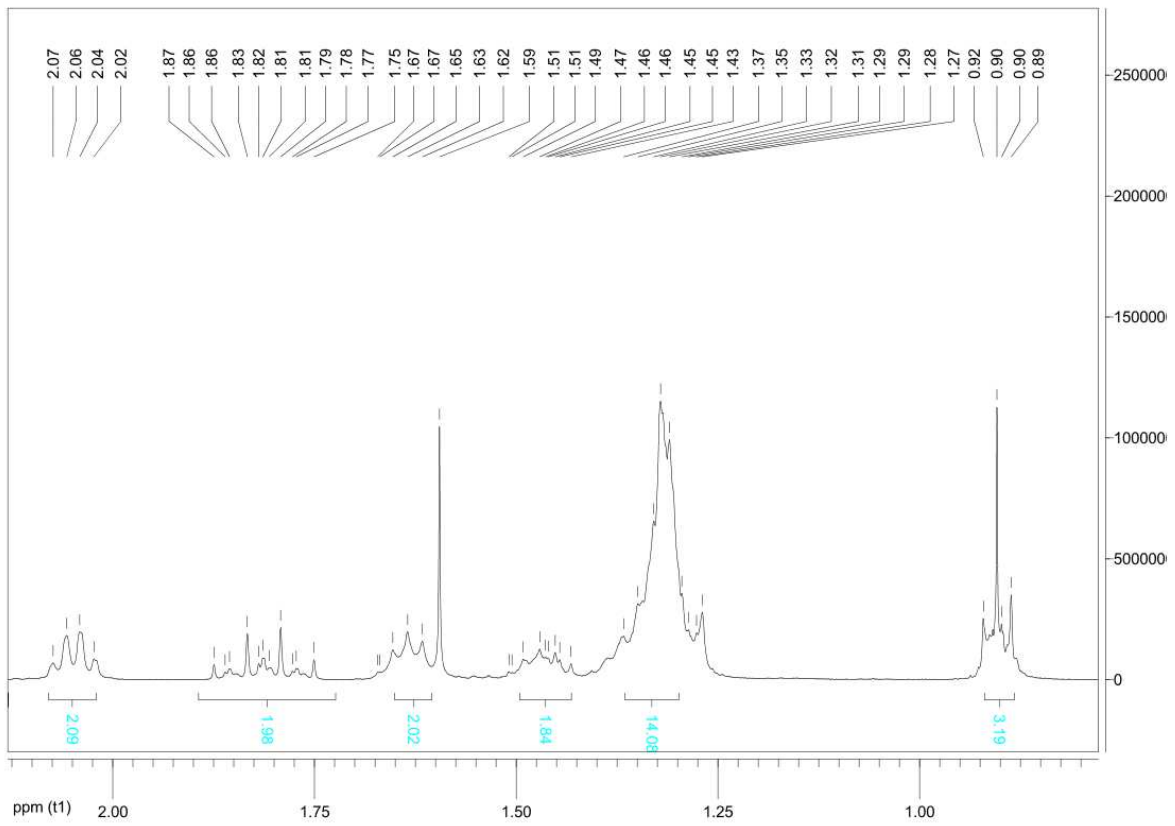
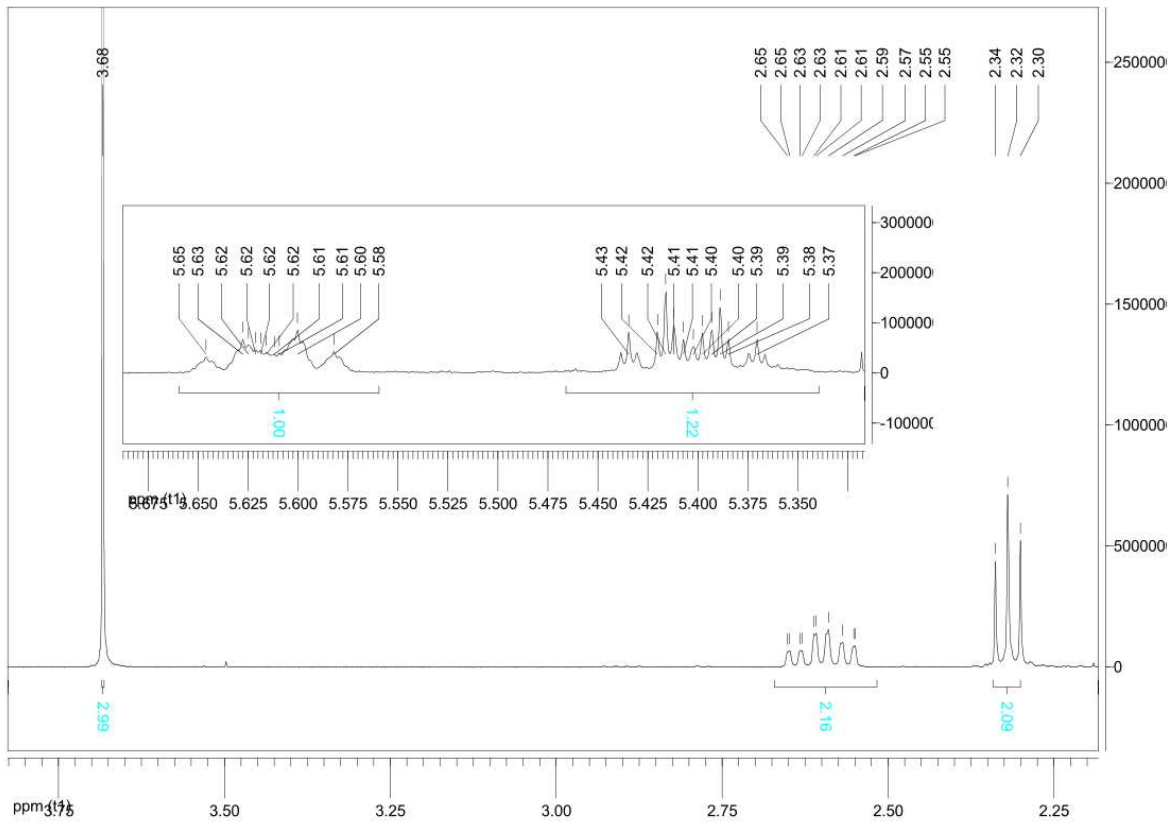


Figure S 3.4: ^{13}C NMR of Compound 26 (100 MHz, Chloroform-*d*)

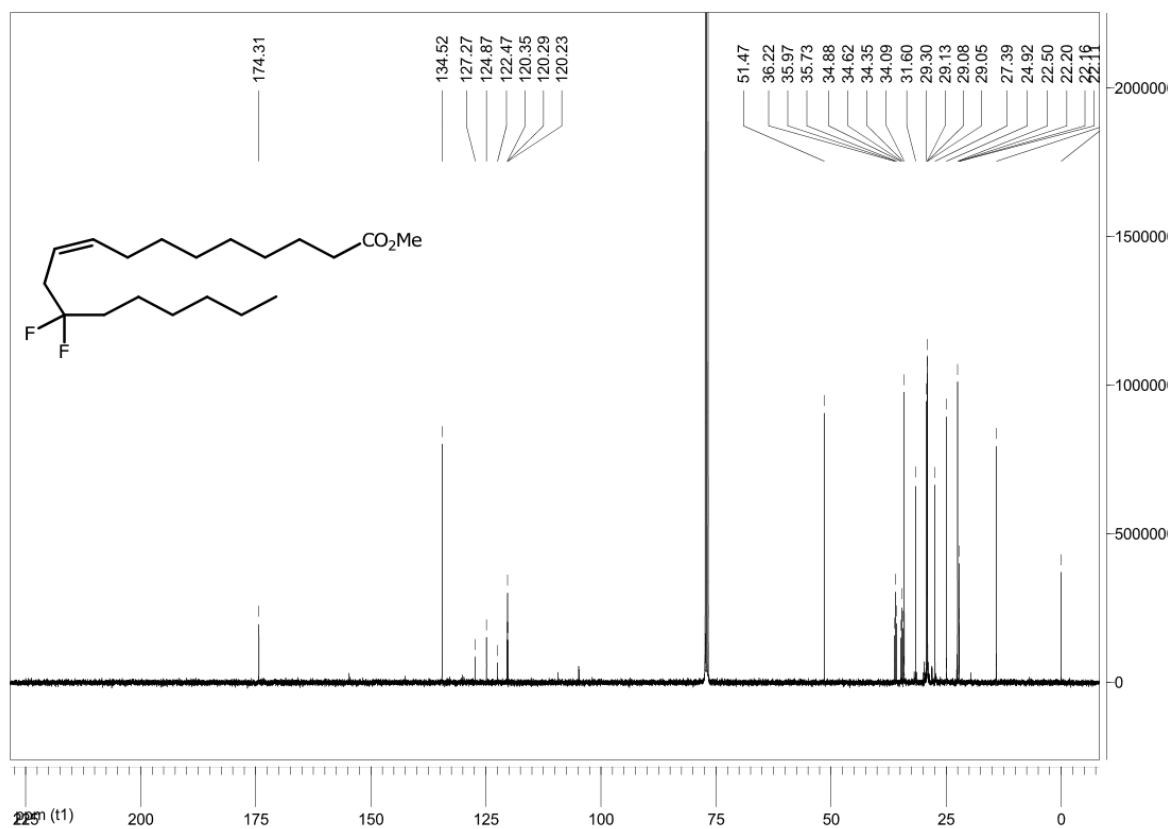
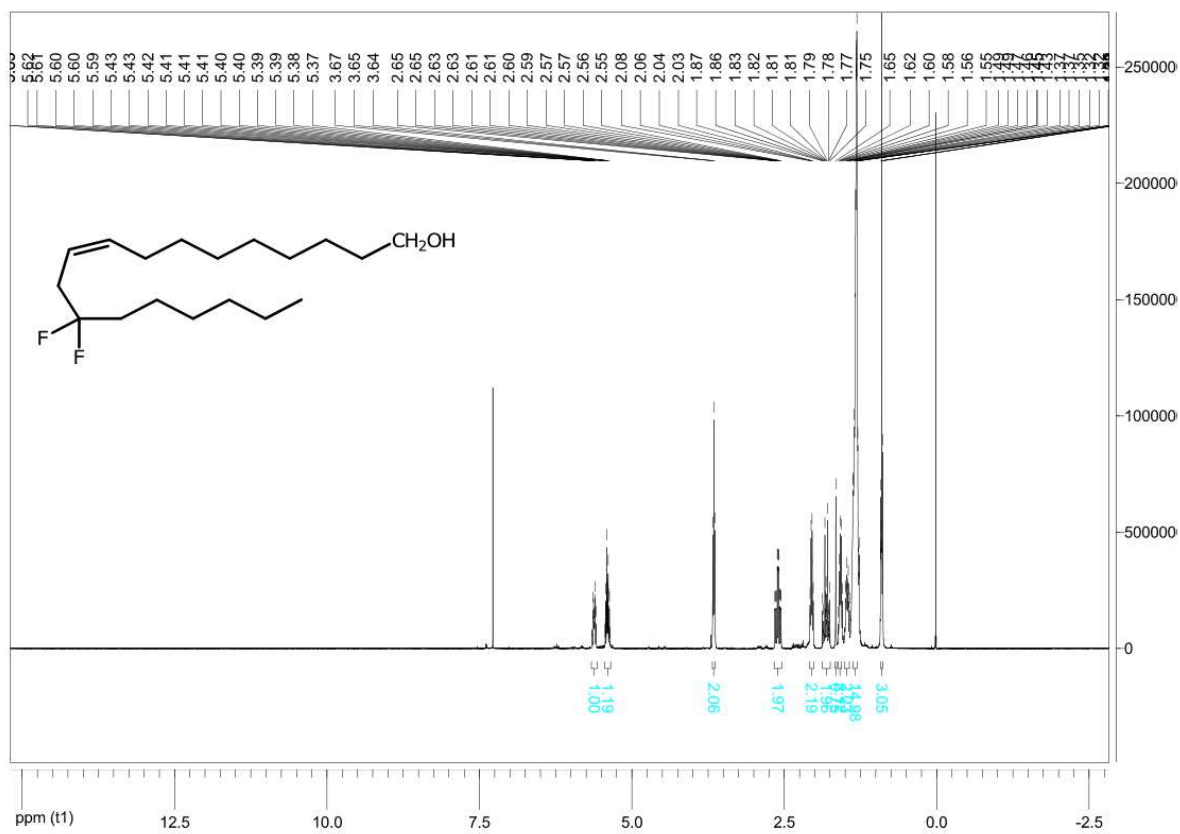


Figure S 3.5: ^1H NMR of Compound 27 (400 MHz, Chloroform-*d*)



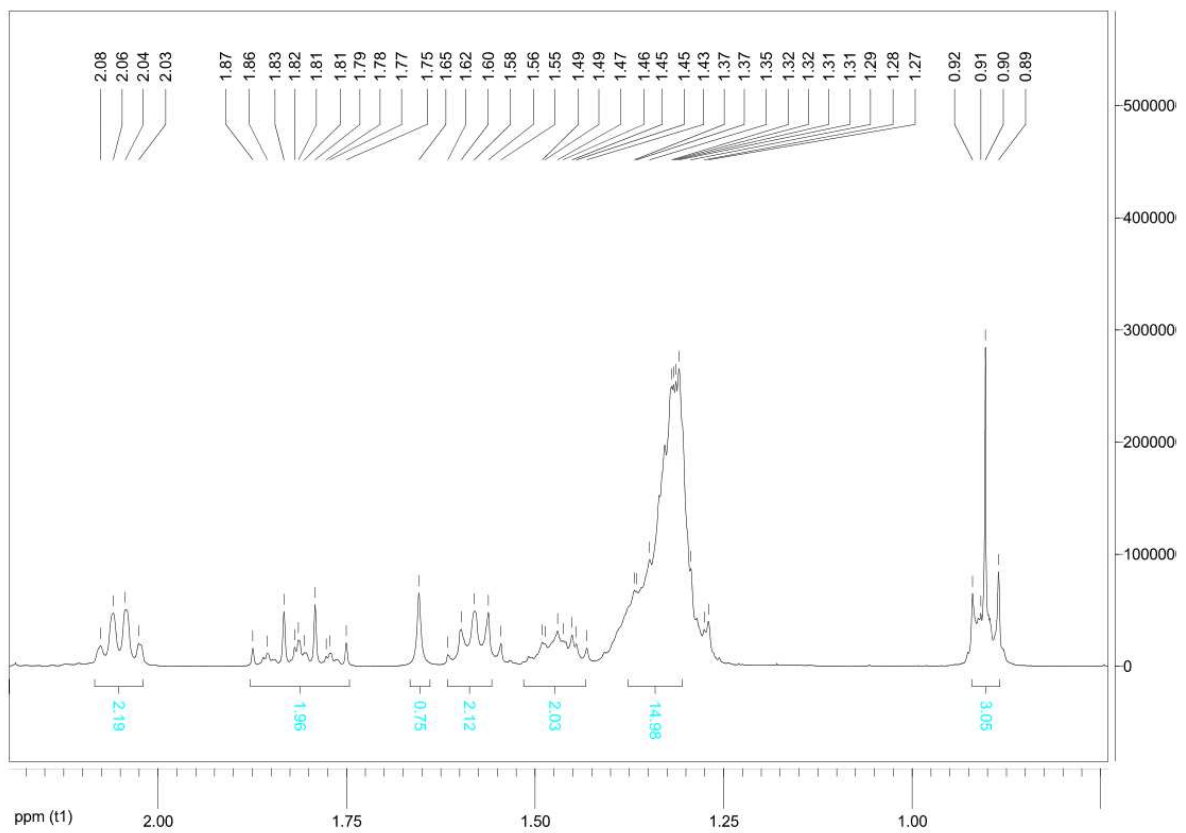
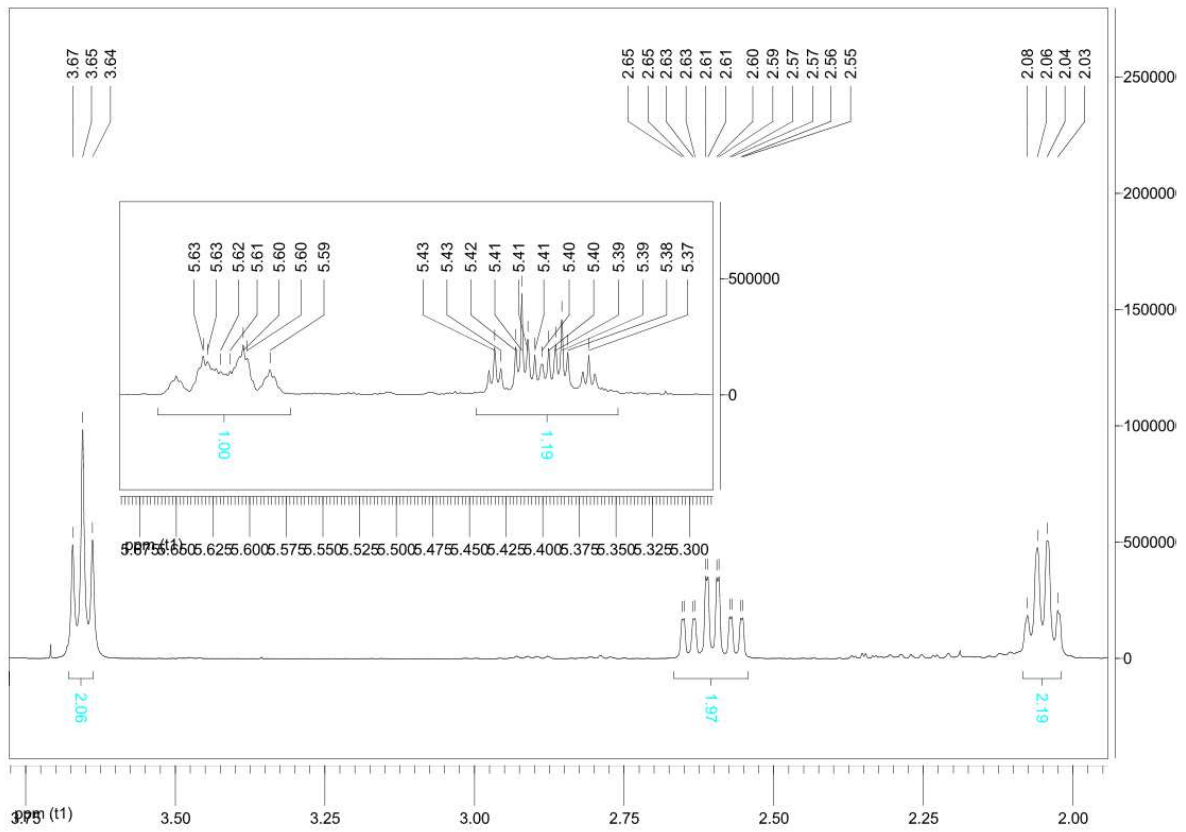


Figure S 3.6: ^{13}C NMR of Compound **27** (100 MHz, Chloroform-*d*)

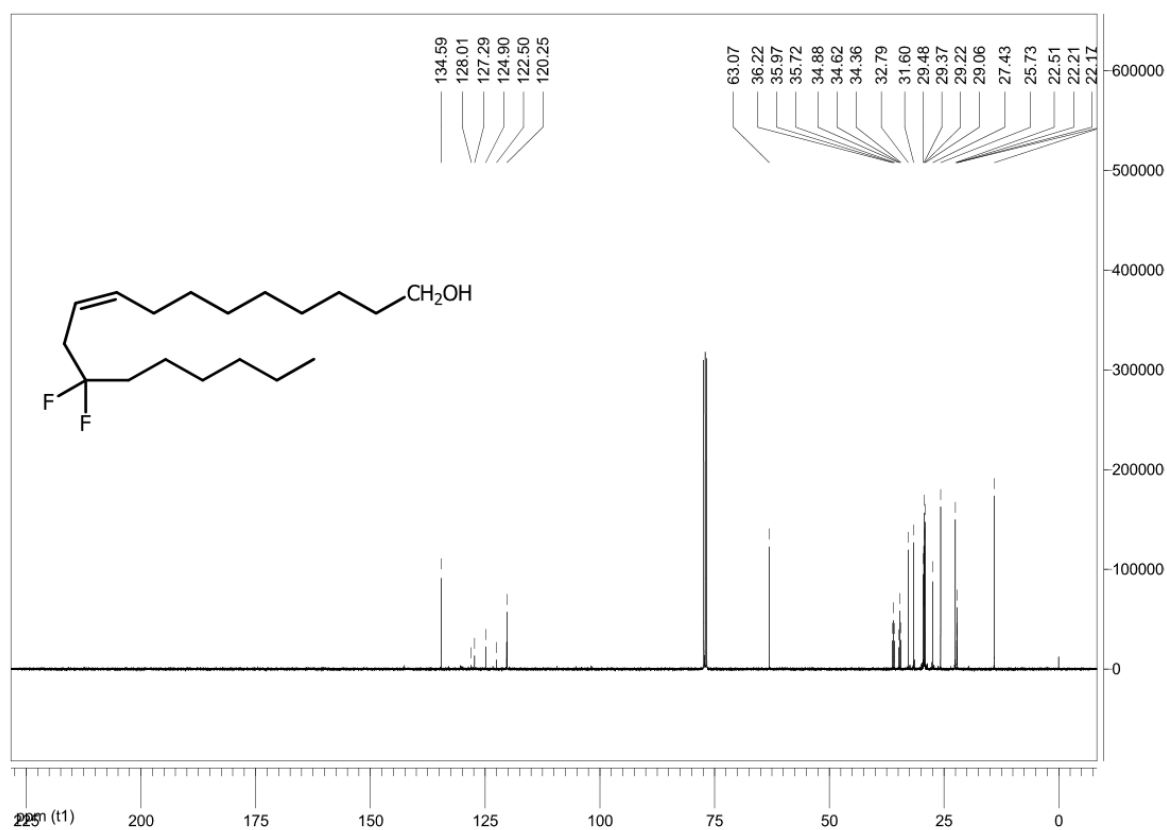
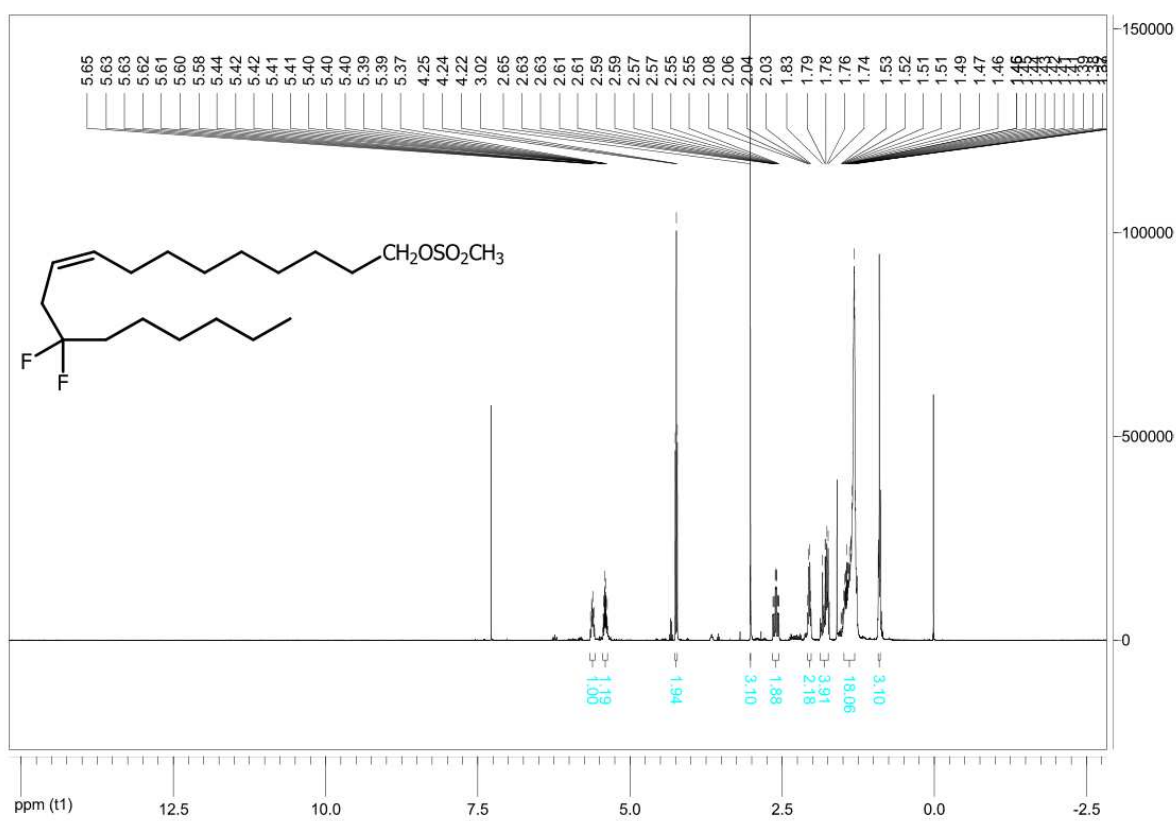
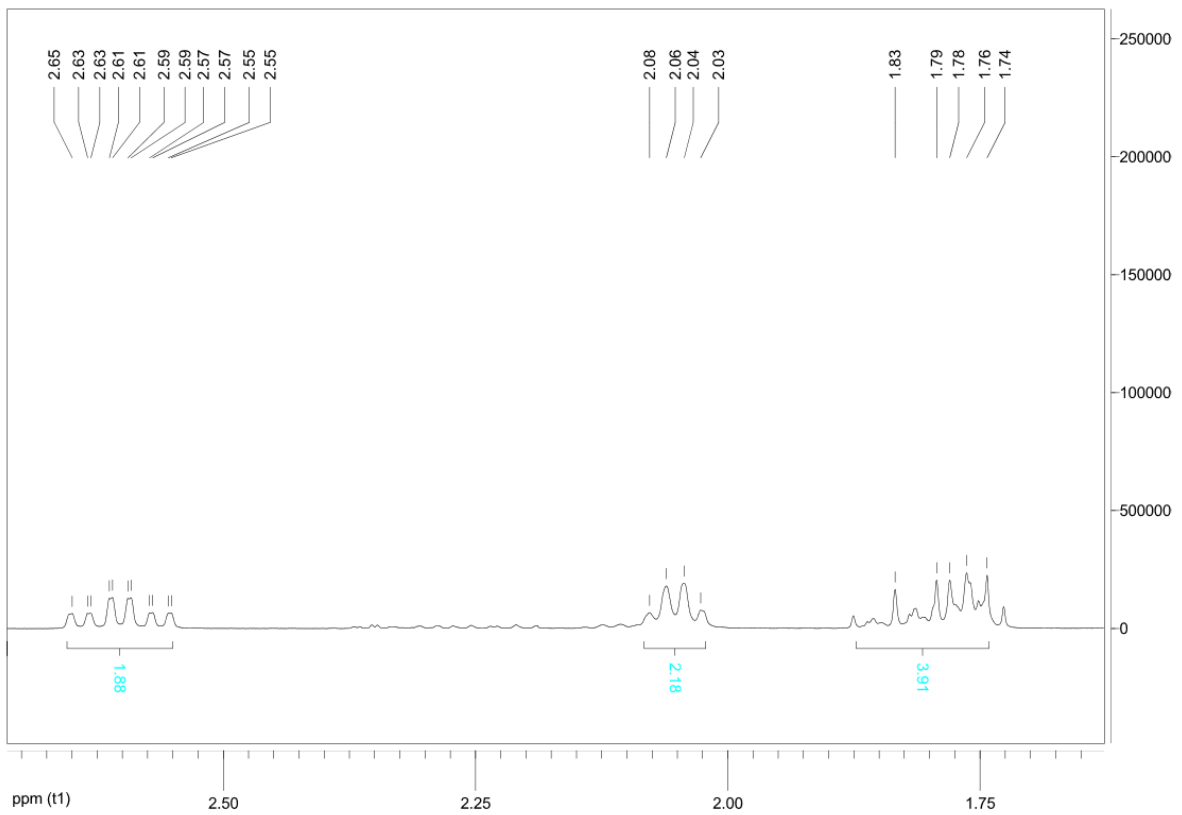
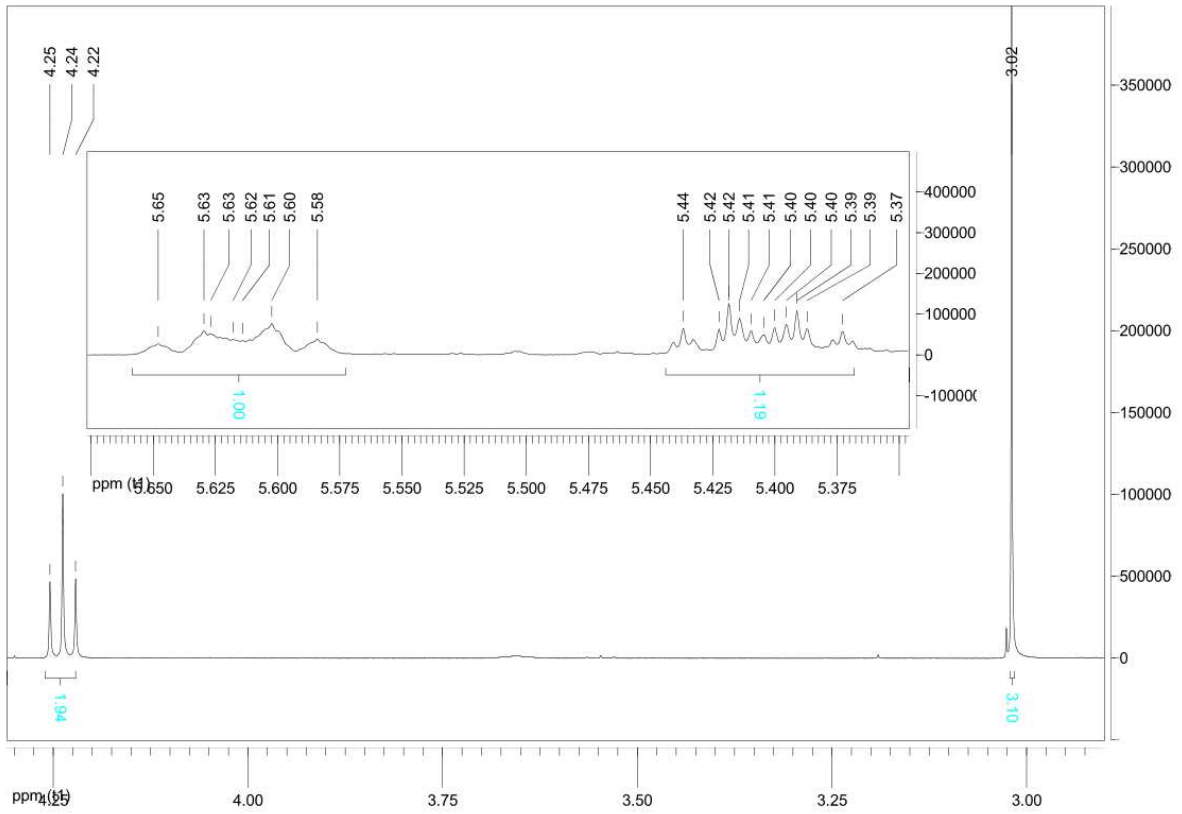


Figure S 3.7: ^1H NMR of Compound **28** (400 MHz, Chloroform-*d*)





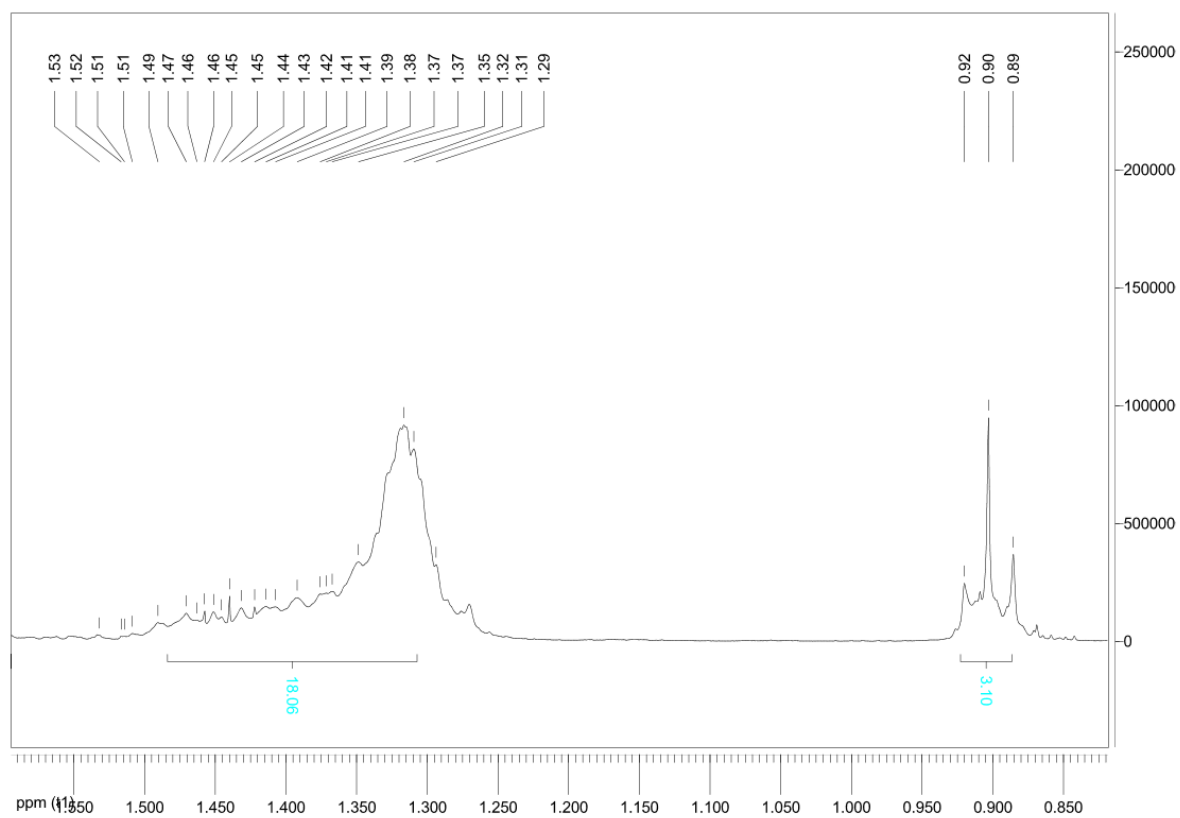


Figure S 3.8: ^{13}C NMR of Compound **28** (100 MHz, Chloroform-*d*)

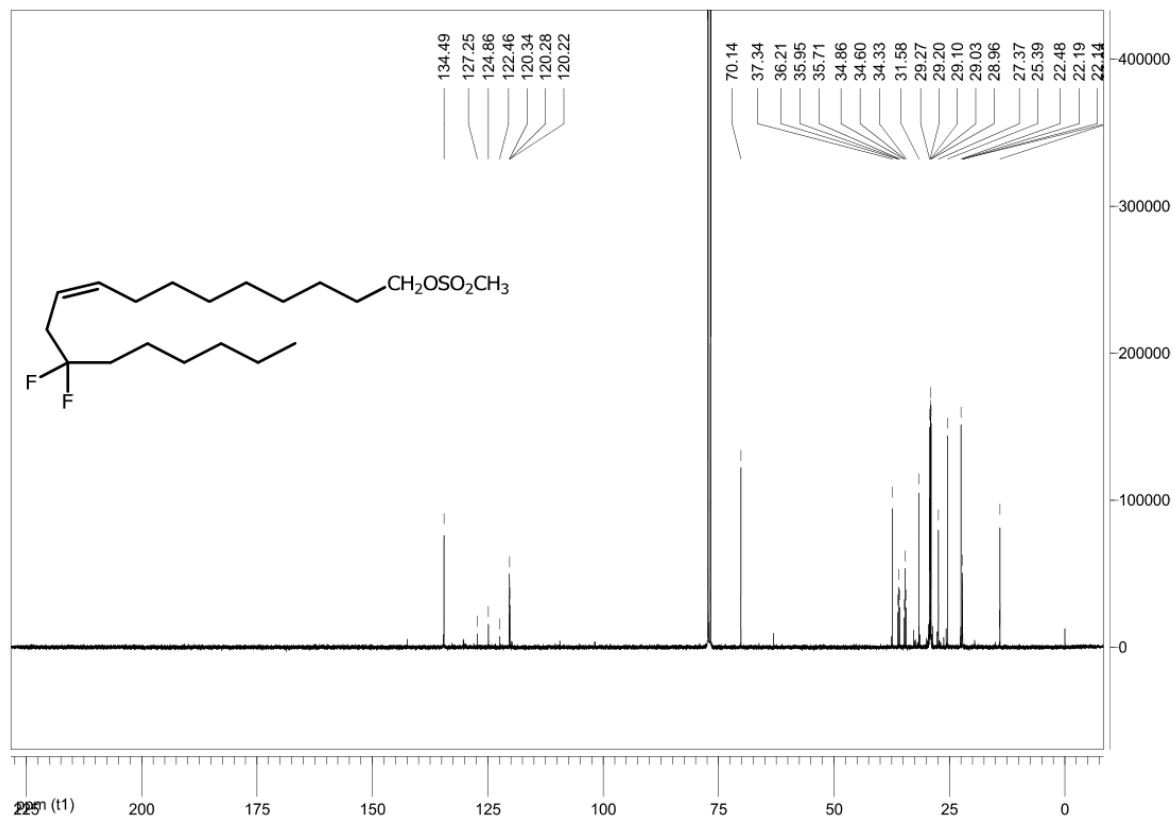
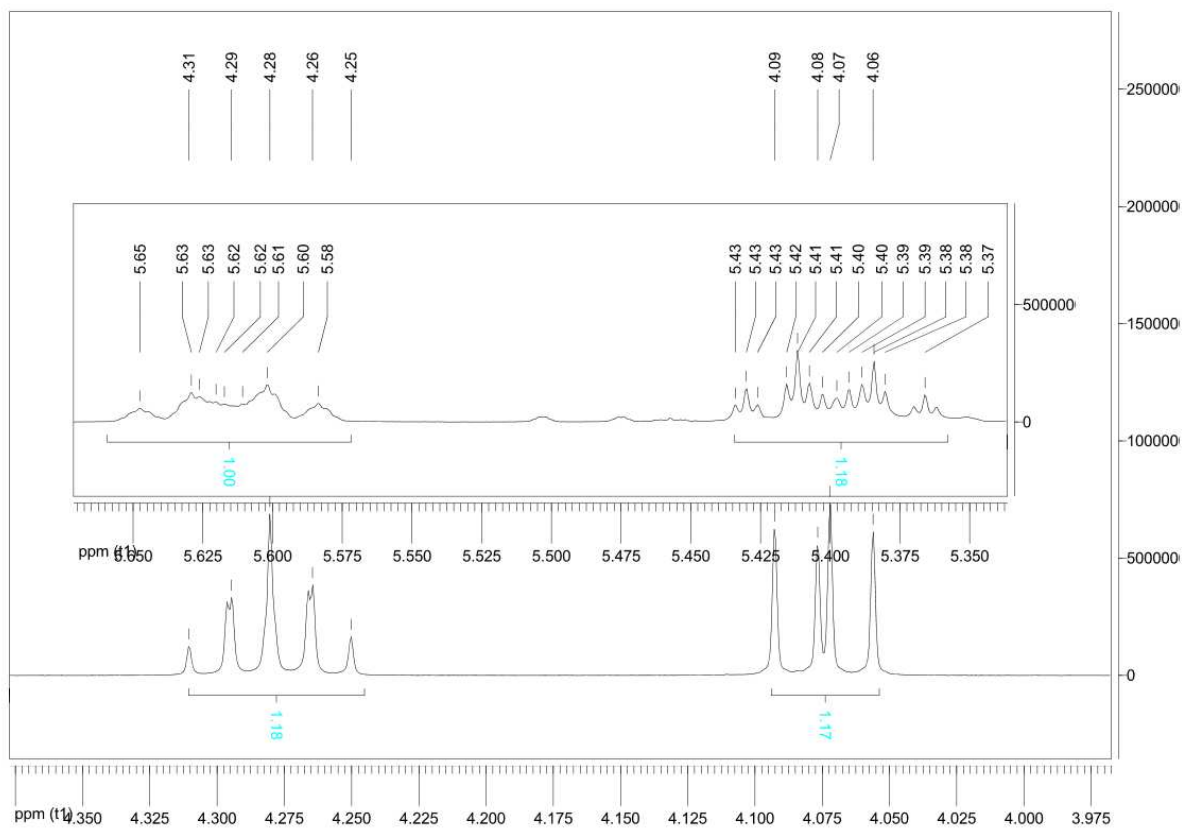
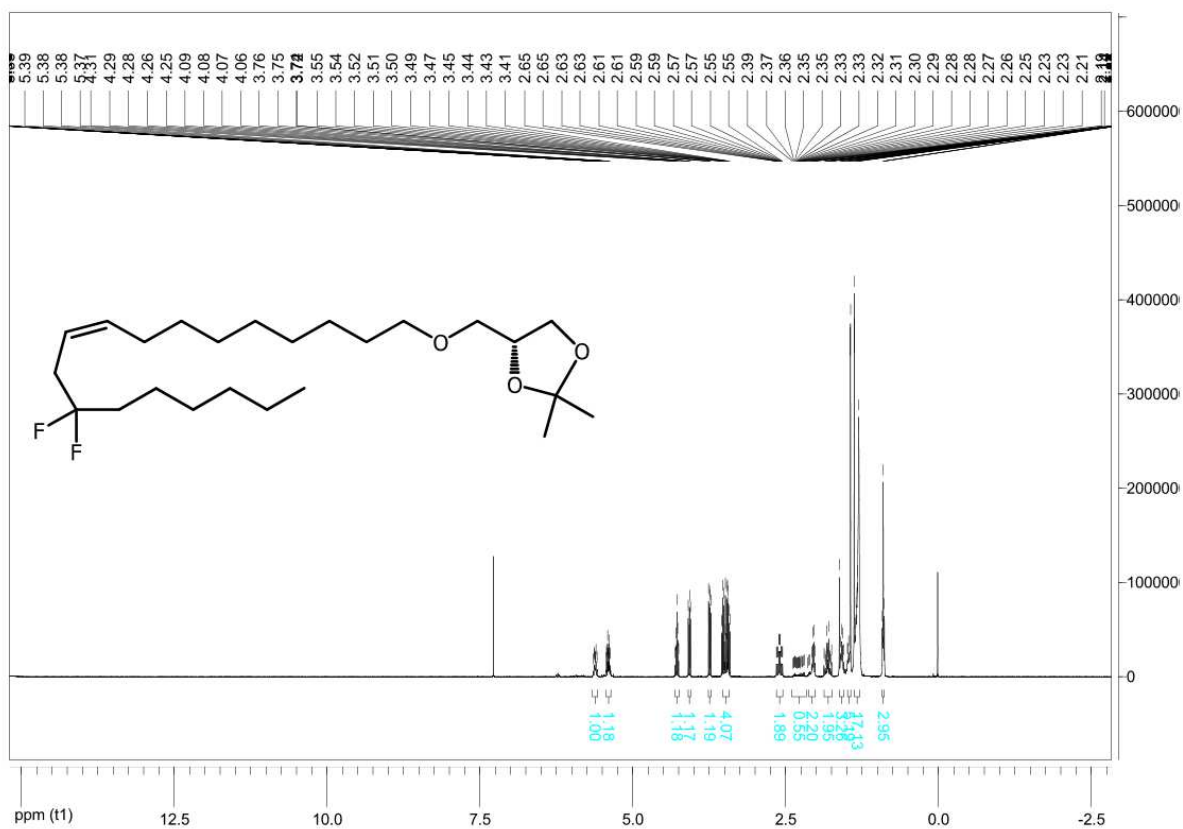


Figure S 3.9: ^1H NMR of Compound **29** (400 MHz, Chloroform-*d*)



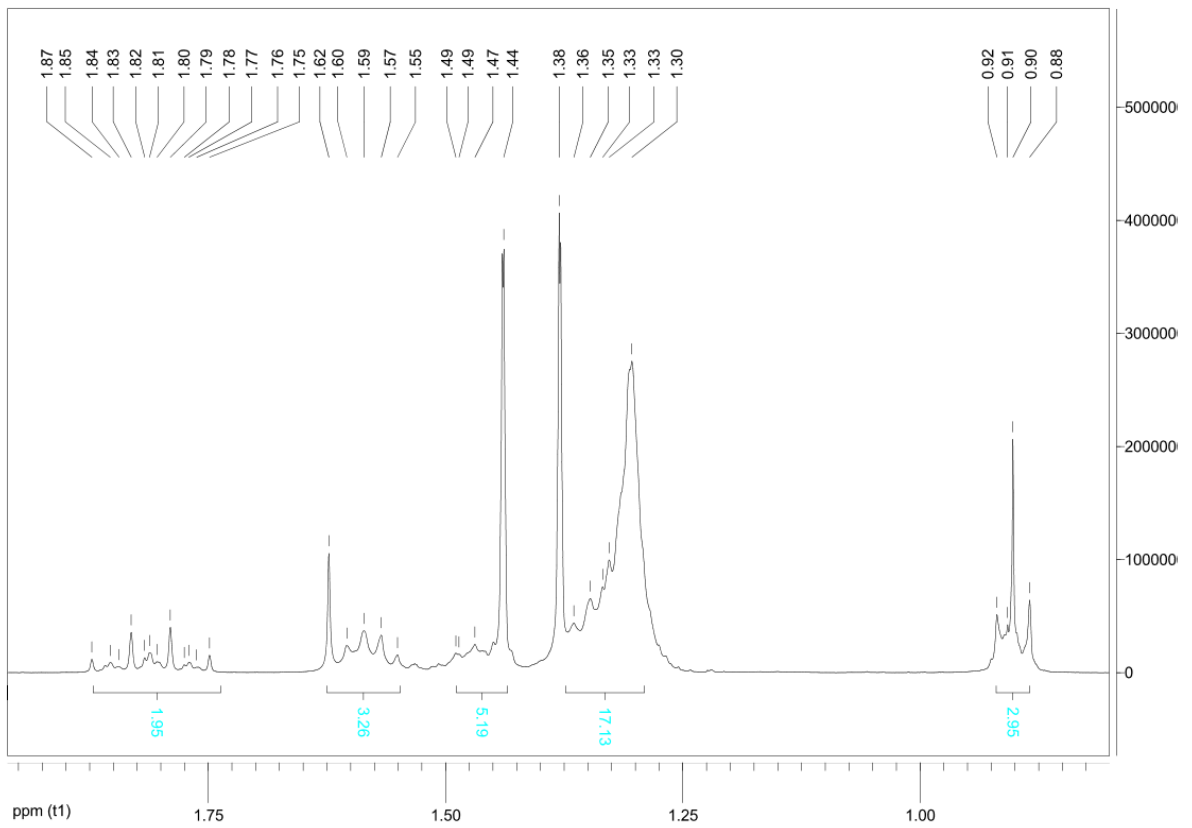
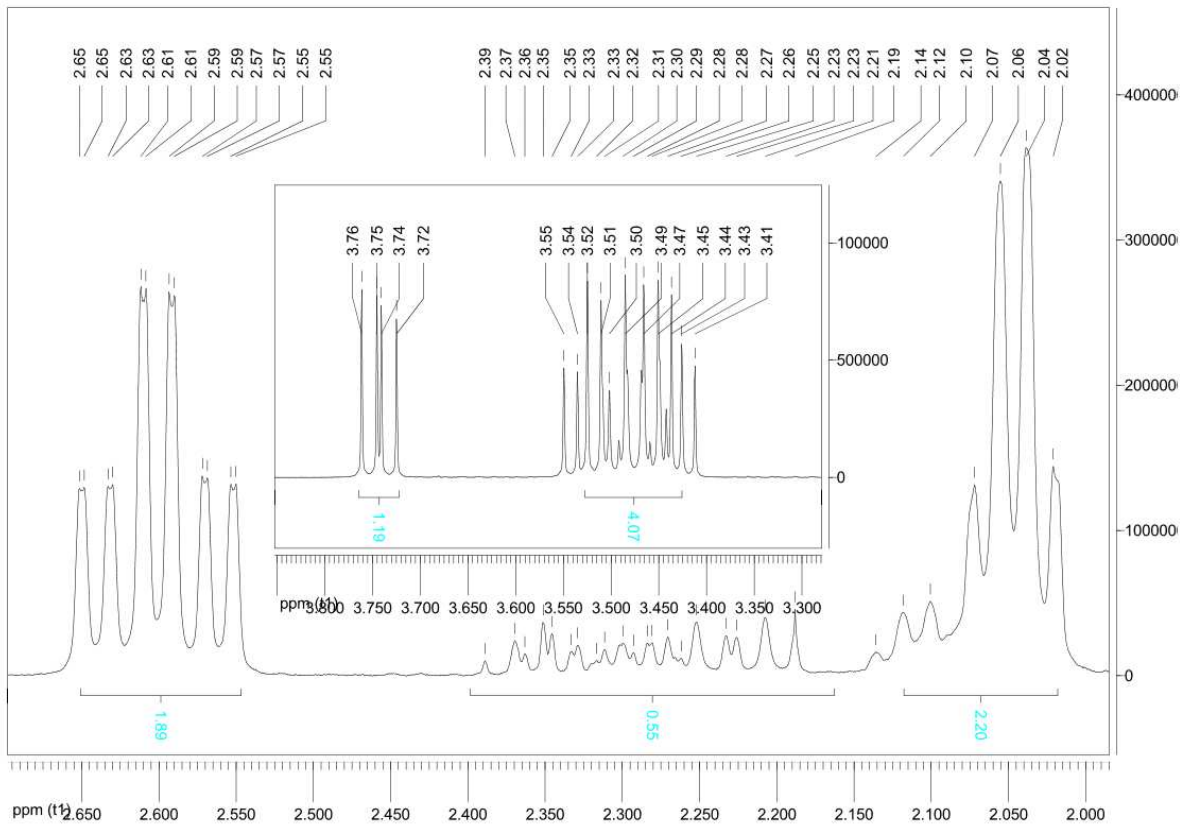


Figure S 3.10: ^{13}C NMR of Compound **29** (100 MHz, Chloroform-*d*)

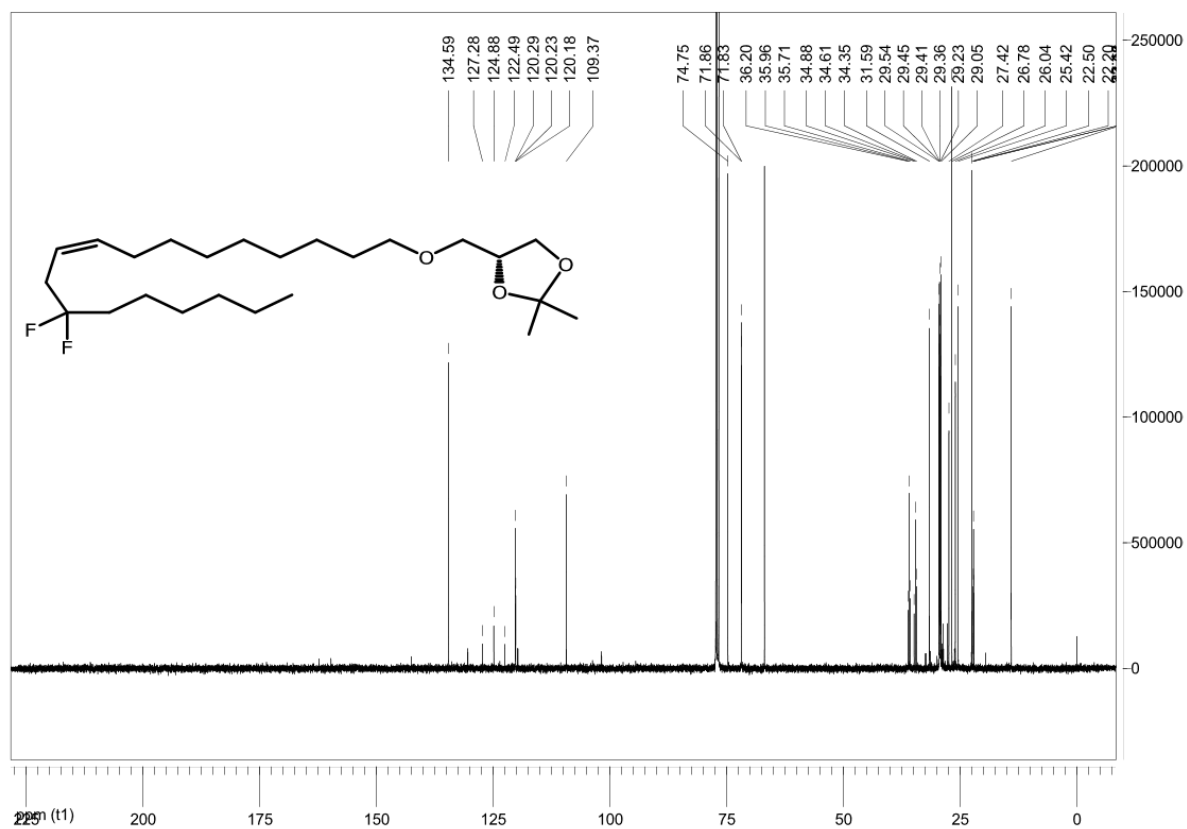
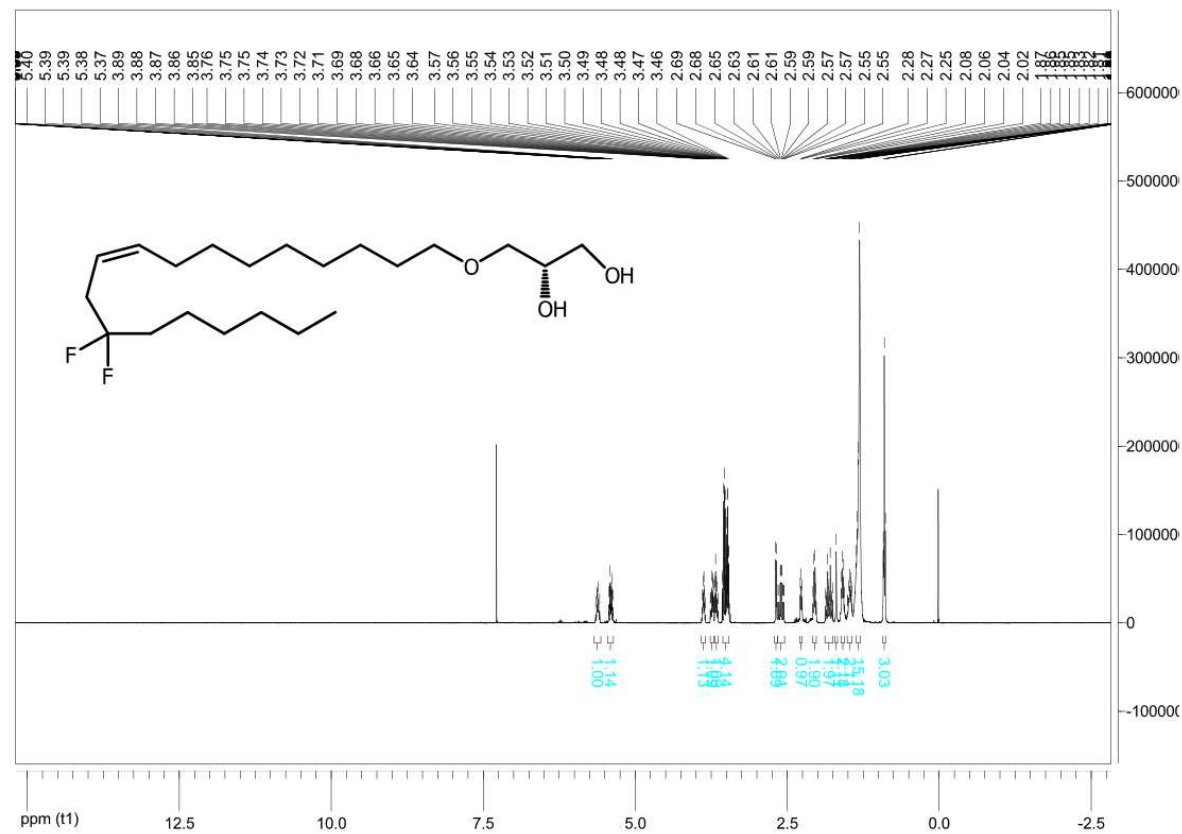
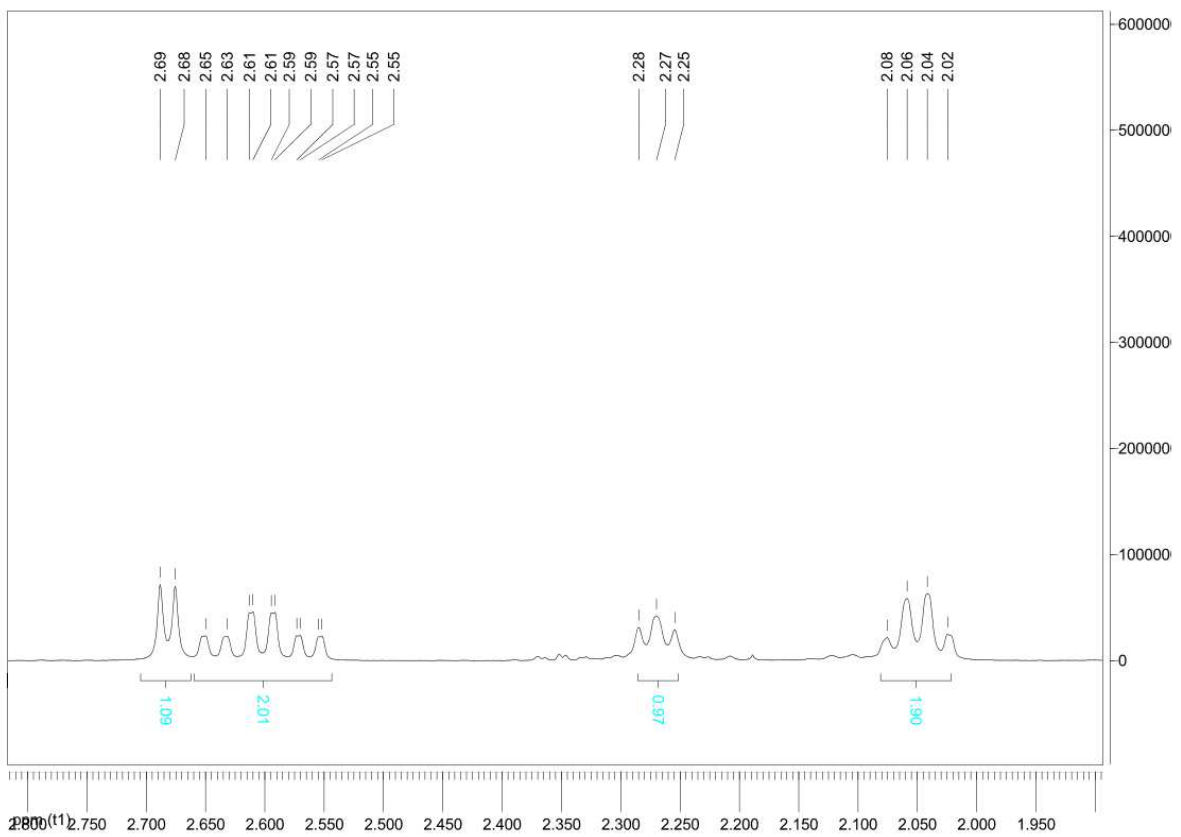
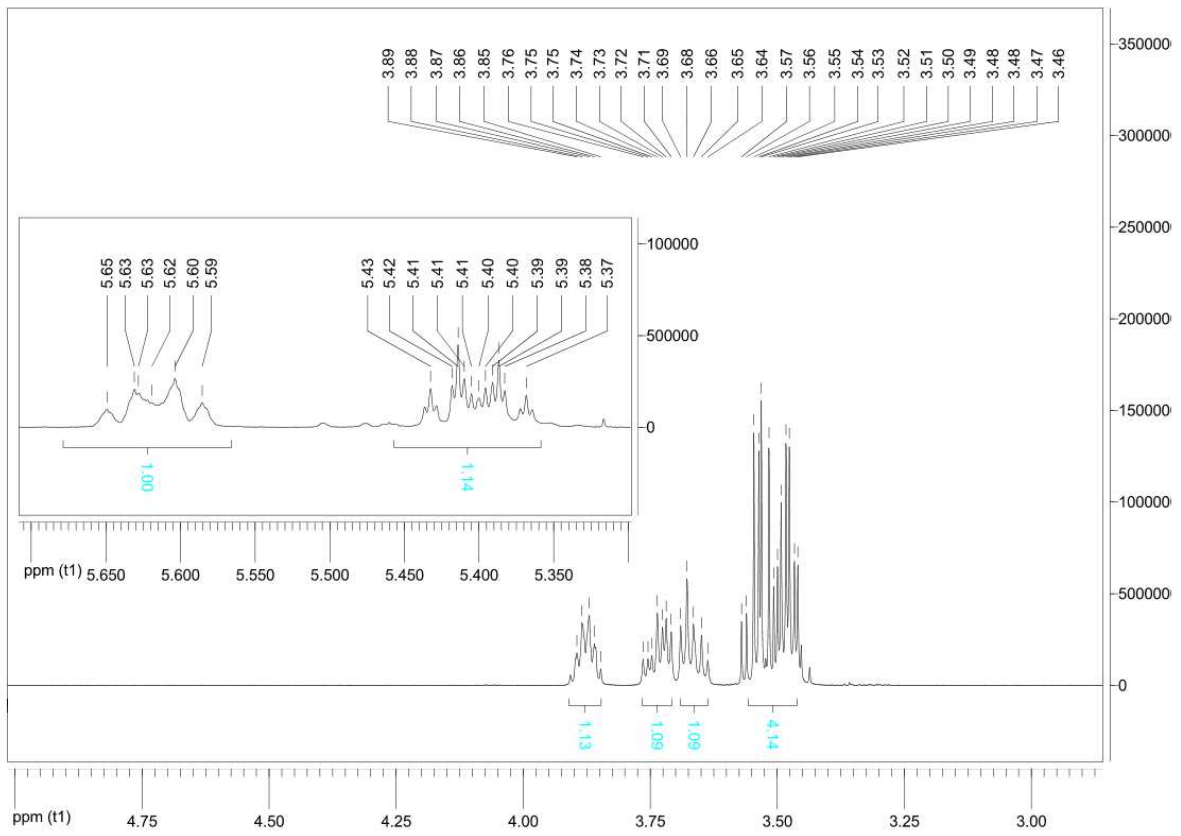


Figure S 3.11: ^1H NMR of Compound **9** (400 MHz, Chloroform-*d*)





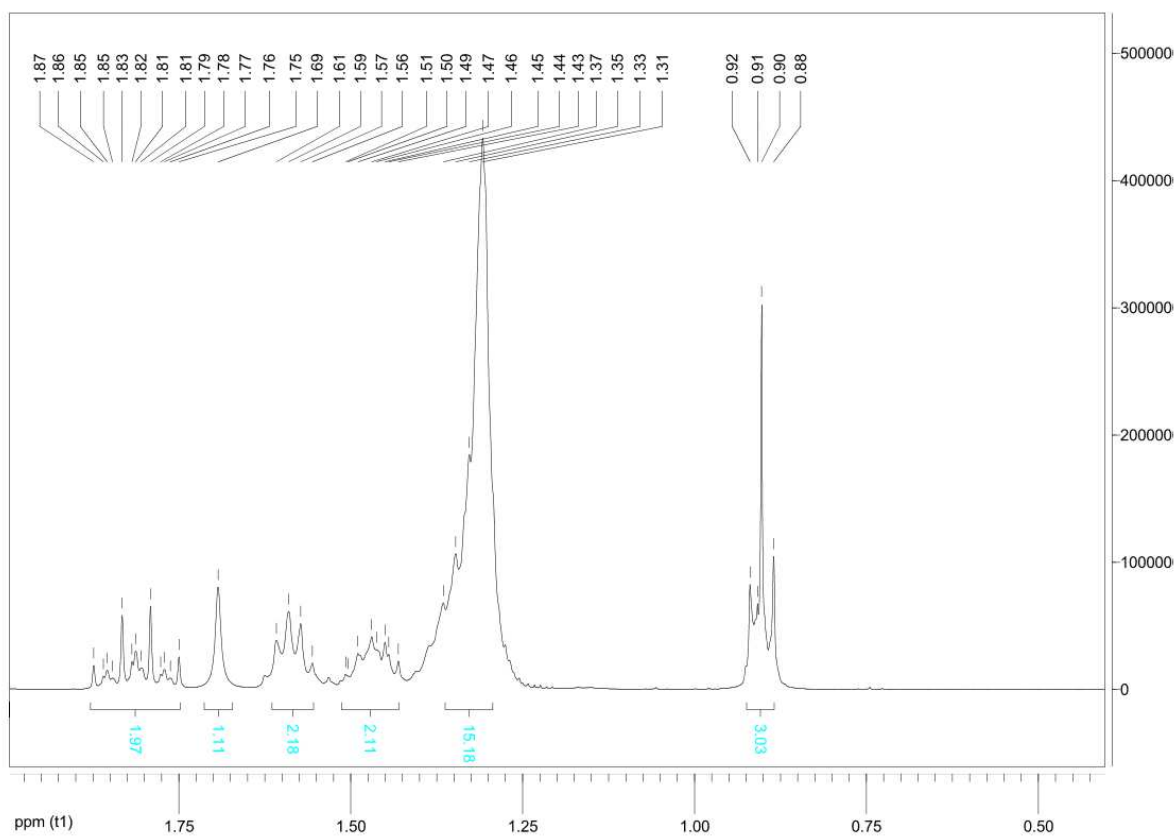


Figure S 3.12: ^{13}C NMR of Compound **9** (100 MHz, Chloroform-*d*)

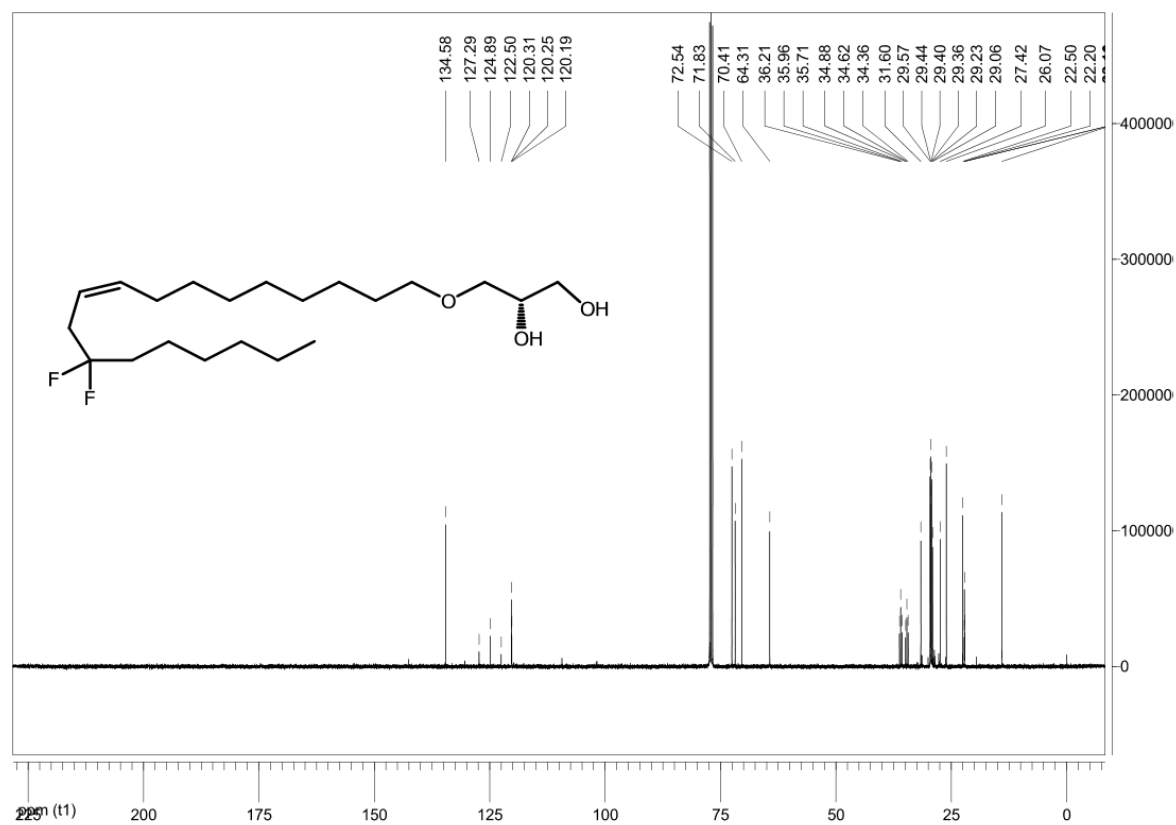
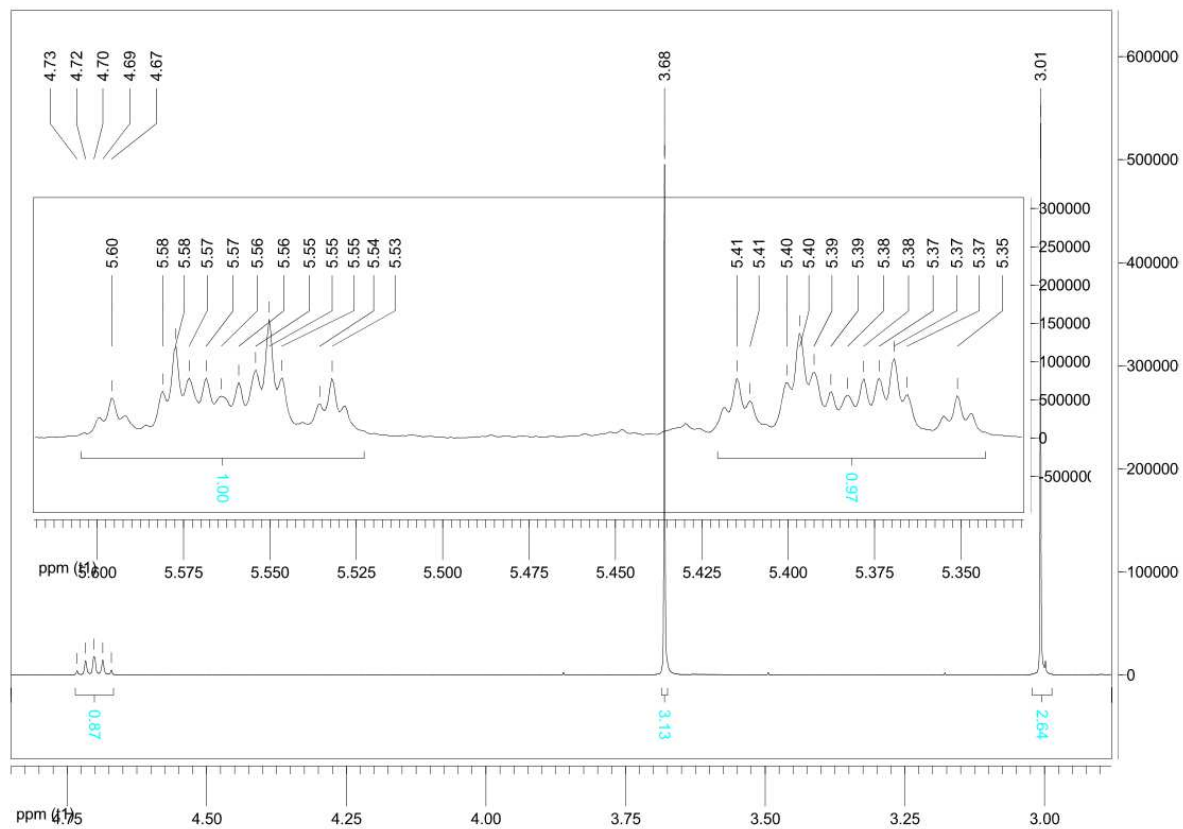
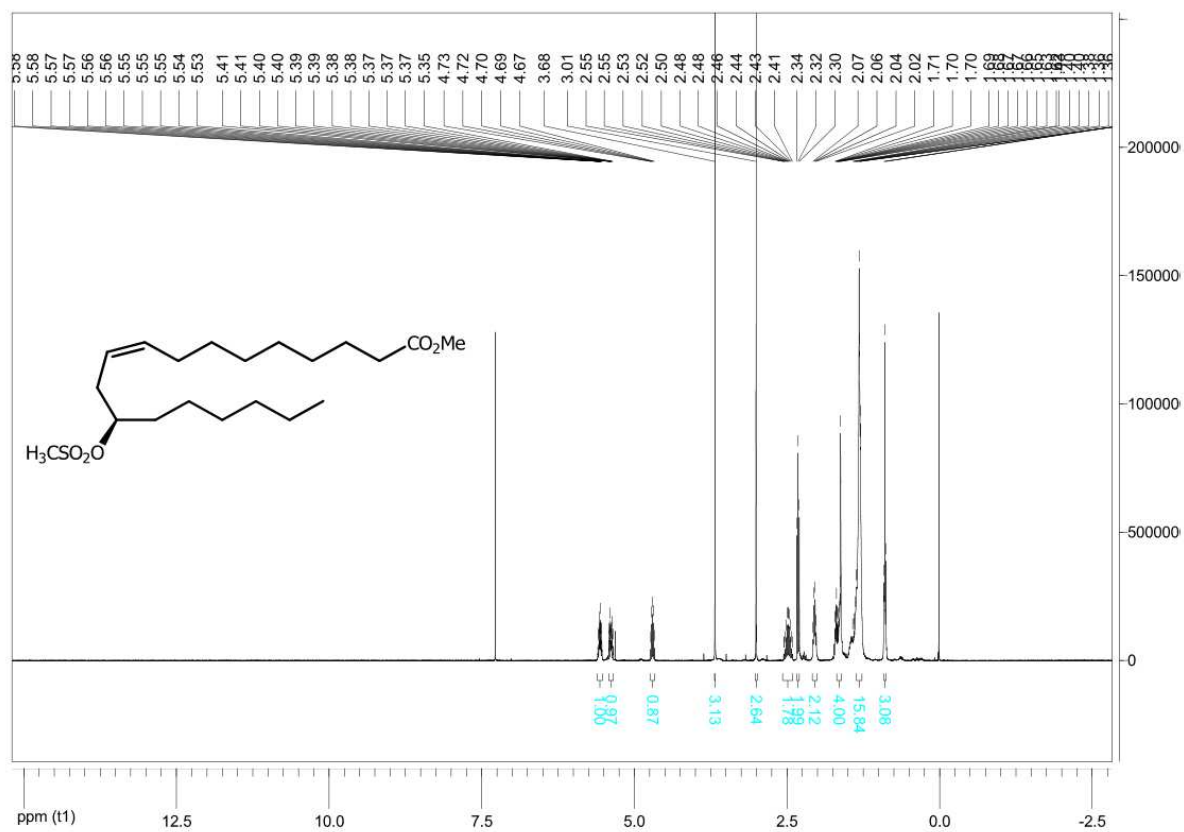


Figure S 4.1: ^1H NMR of Compound **31** (400 MHz, Chloroform-*d*)



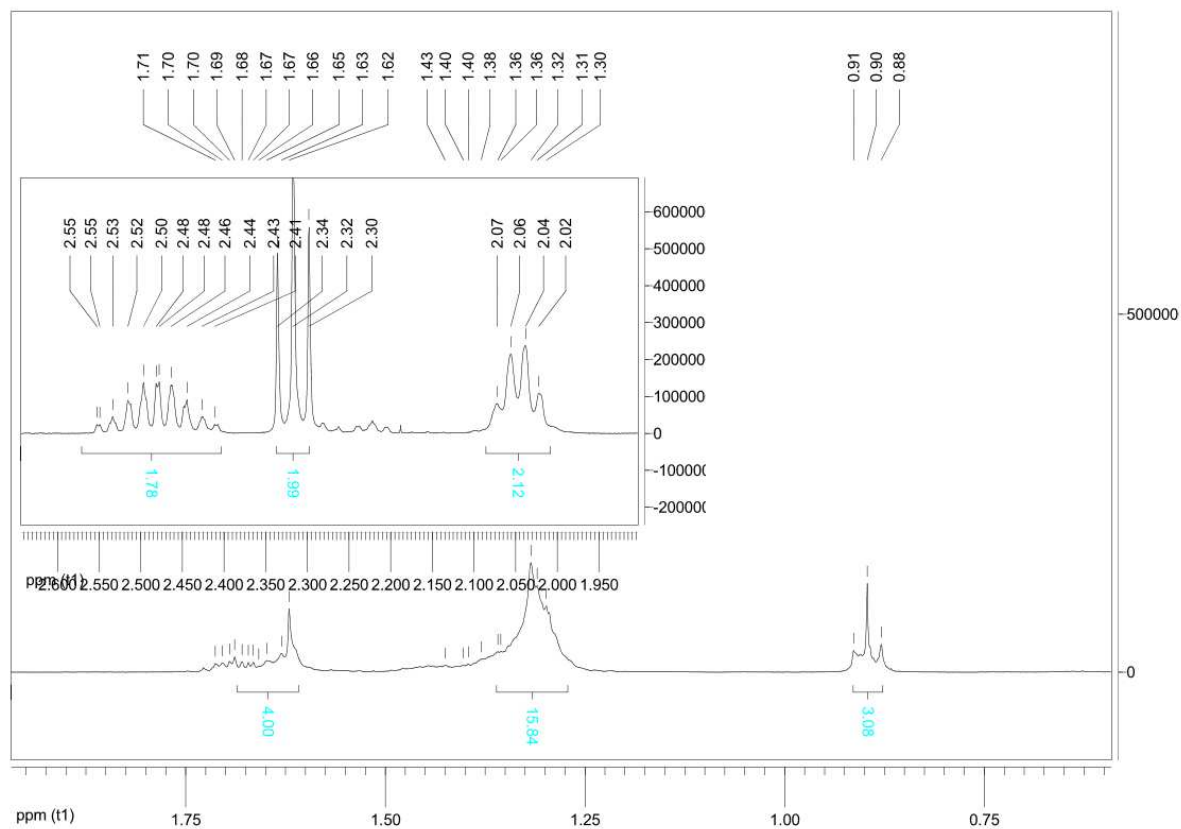


Figure S 4.2: ^{13}C NMR of Compound **31** (100 MHz, Chloroform-*d*)

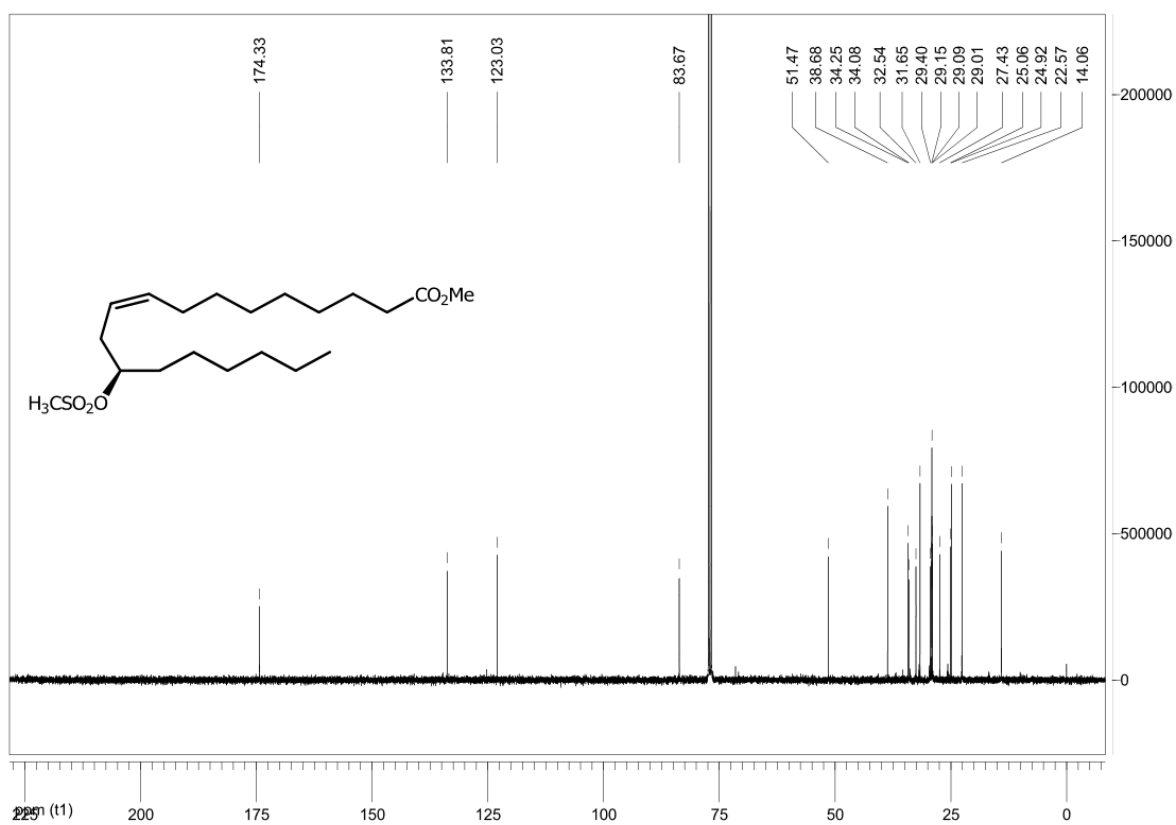
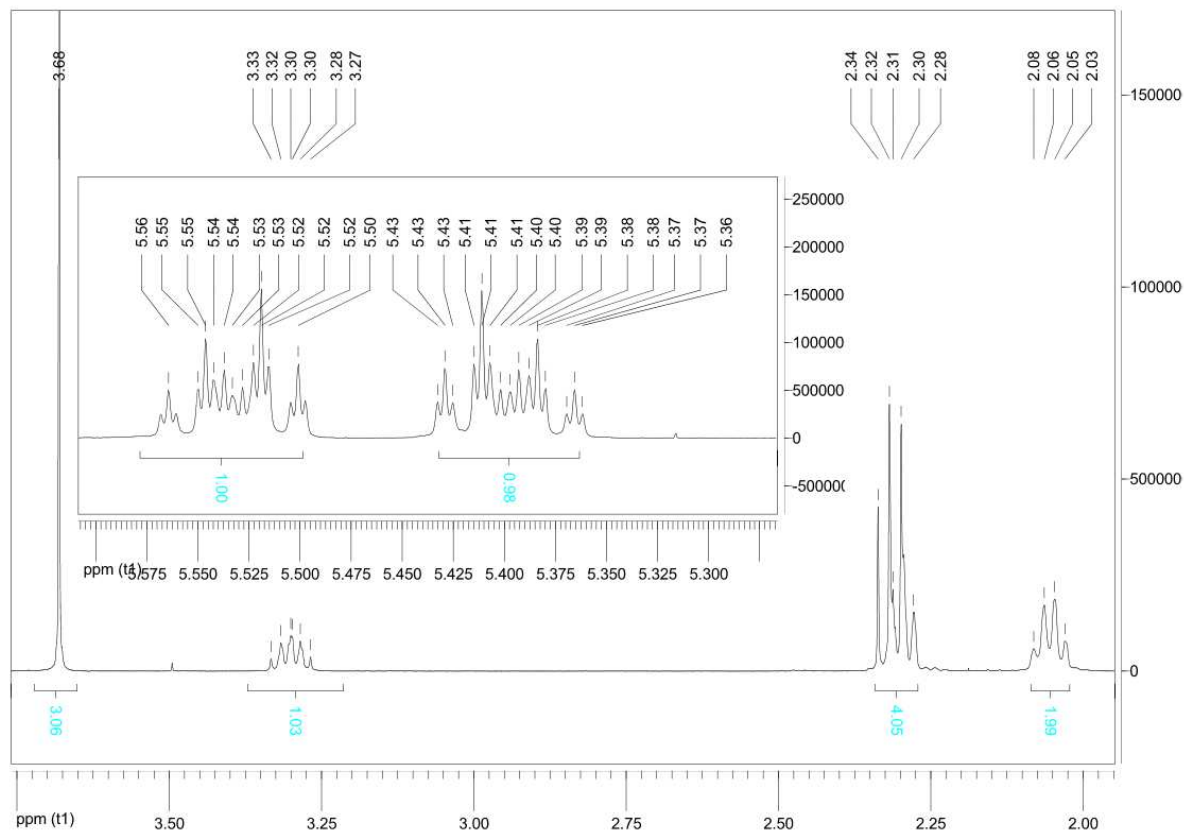
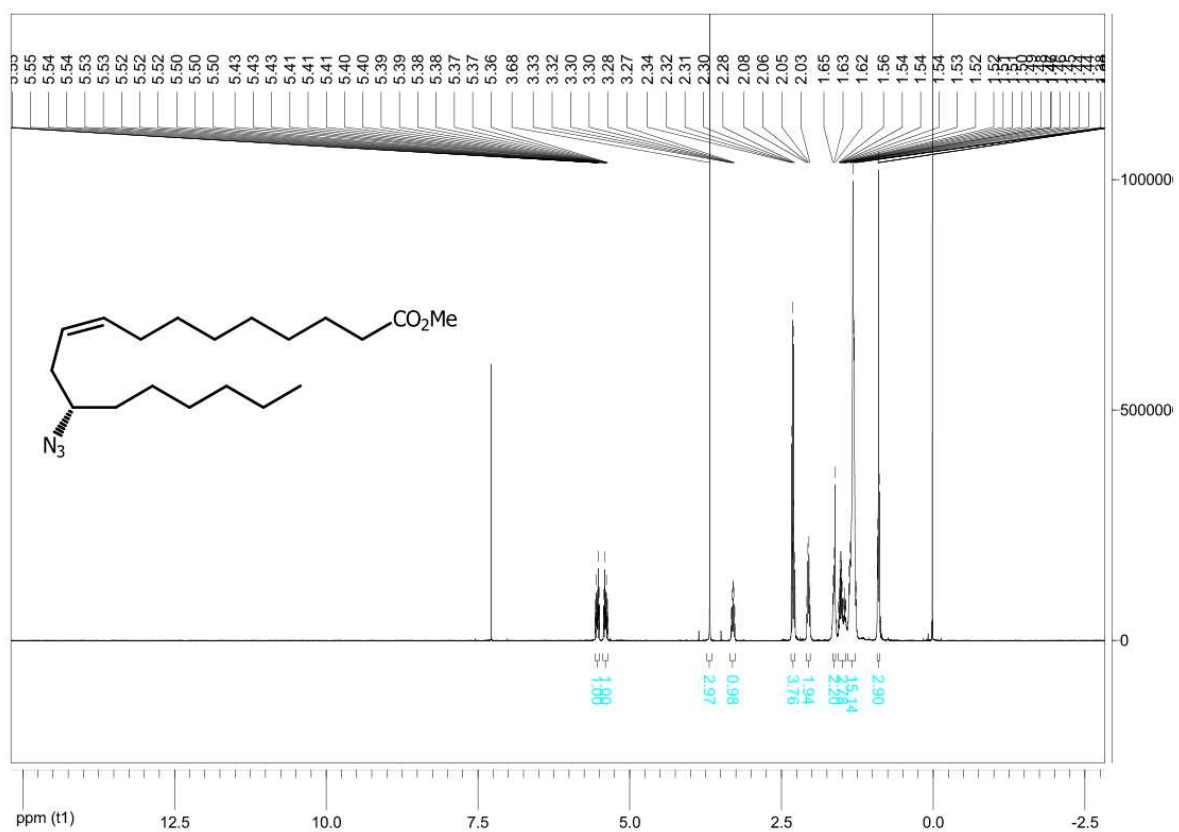


Figure S 4.3: ^1H NMR of Compound **32** (400 MHz, Chloroform-*d*)



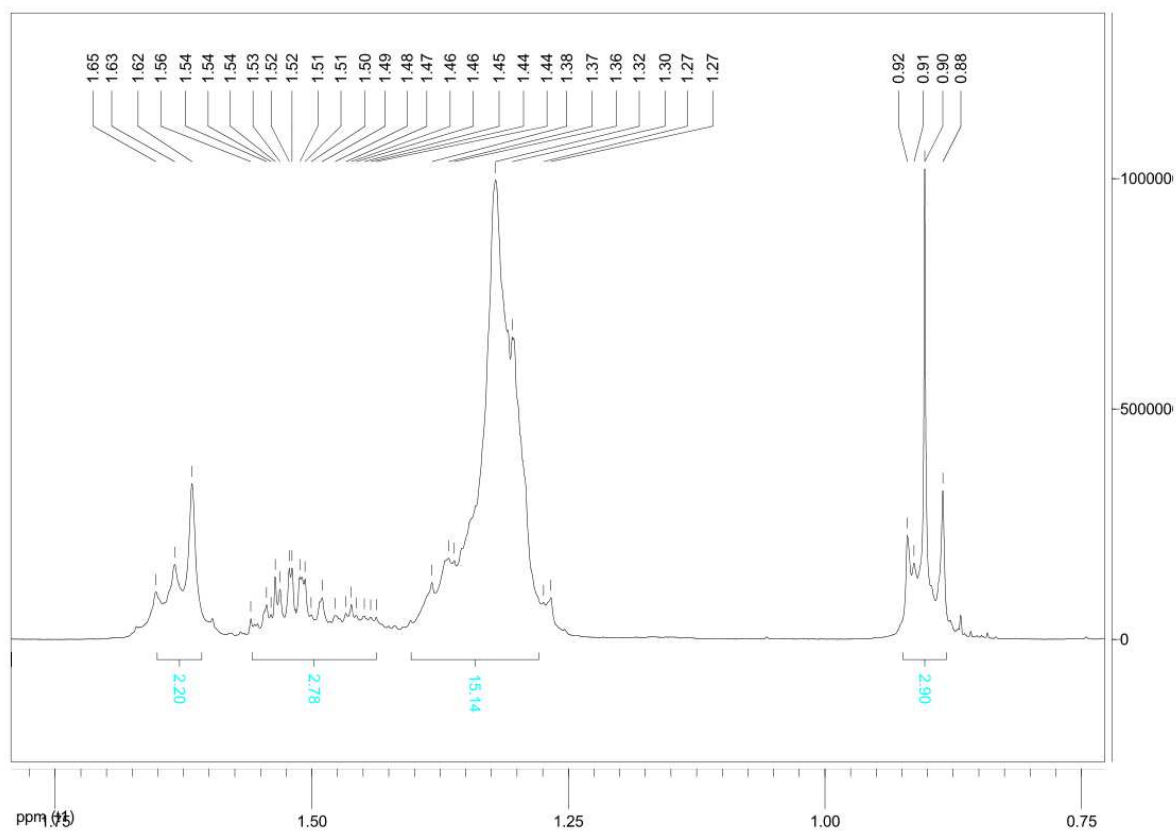


Figure S 4.4: ^{13}C NMR of Compound **32** (100 MHz, Chloroform-*d*)

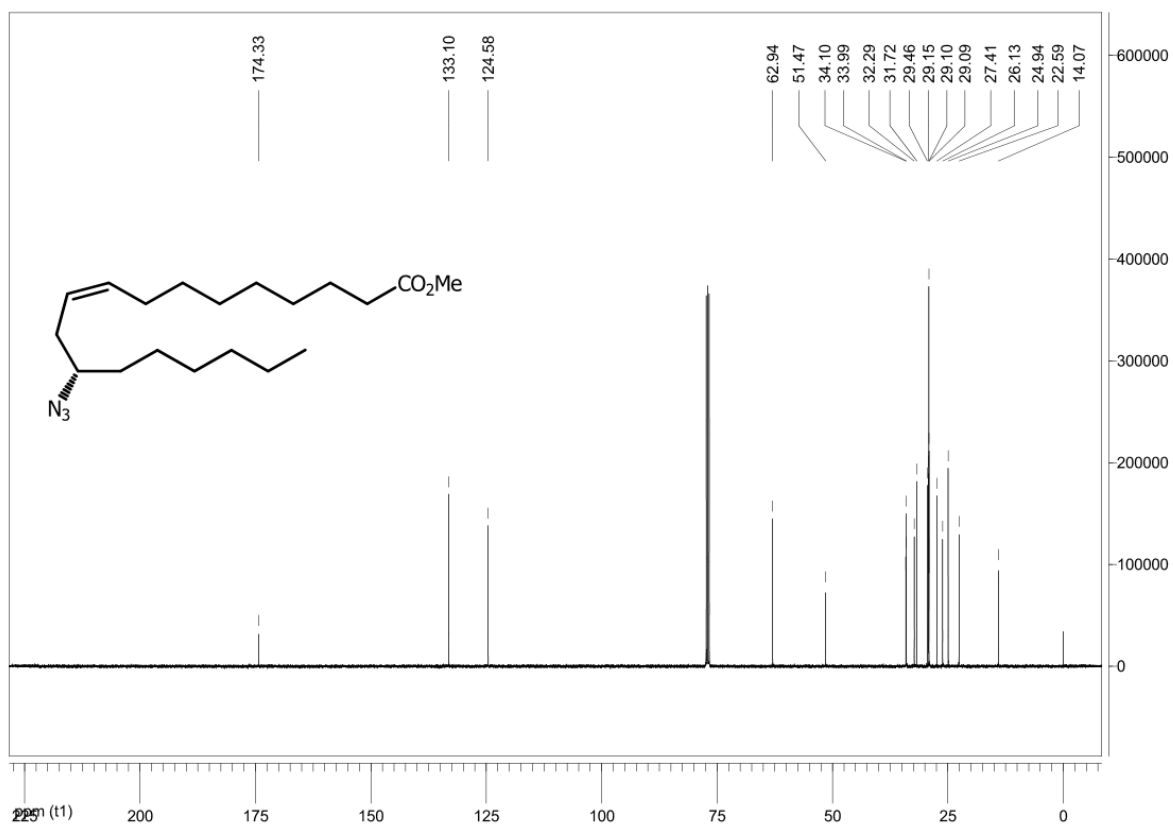
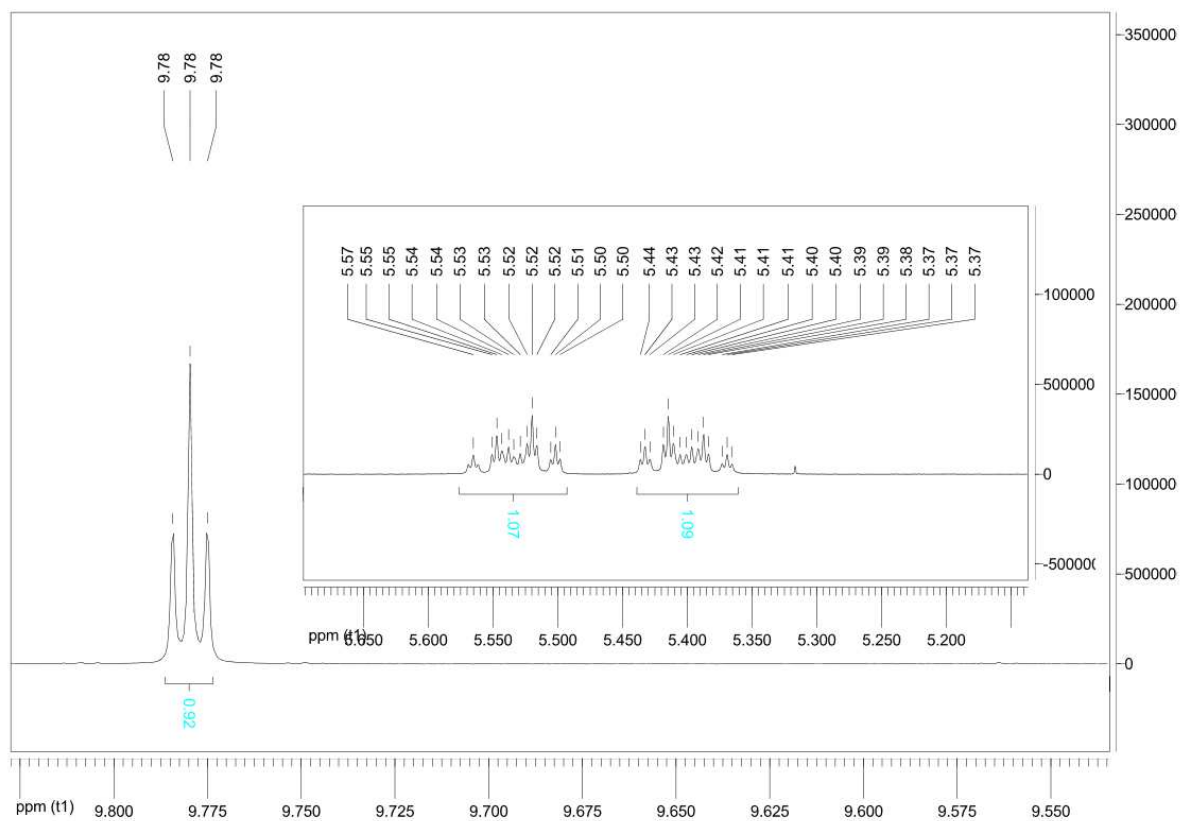
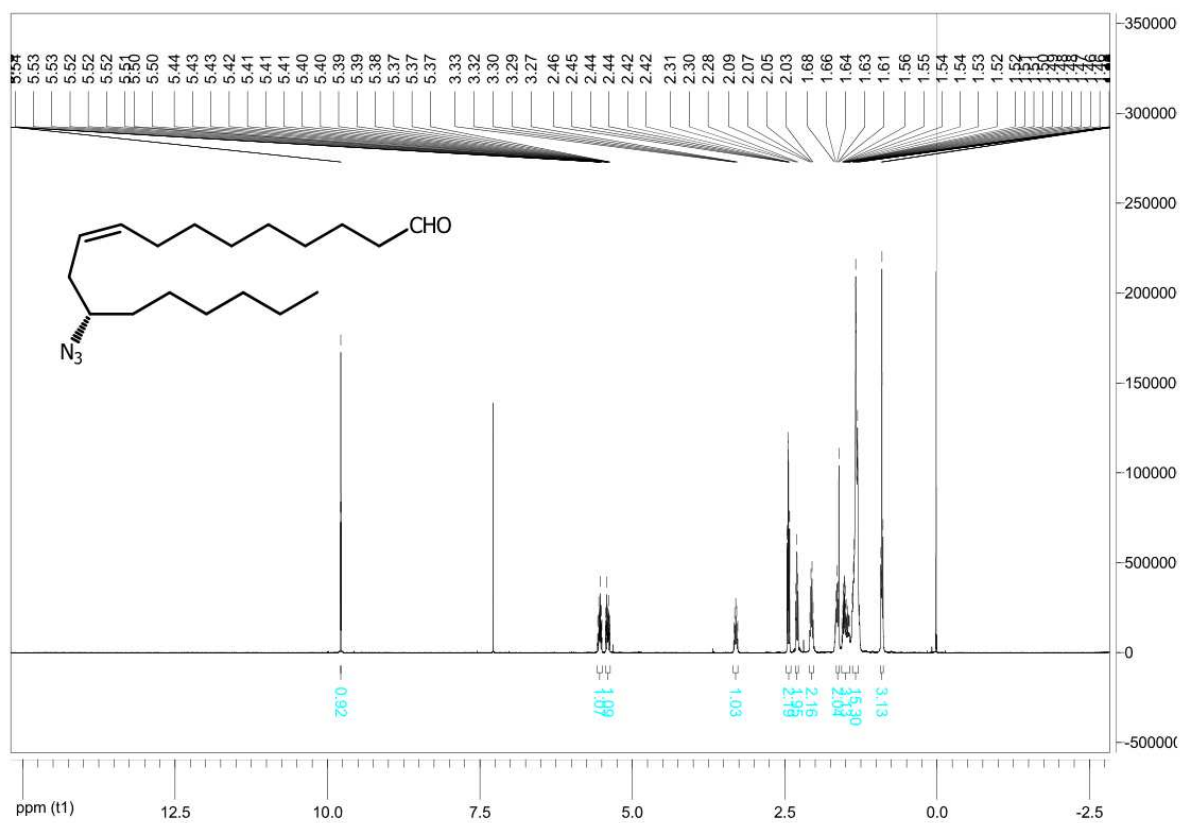


Figure S 4.5: ^1H NMR of Compound **33** (400 MHz, Chloroform-*d*)



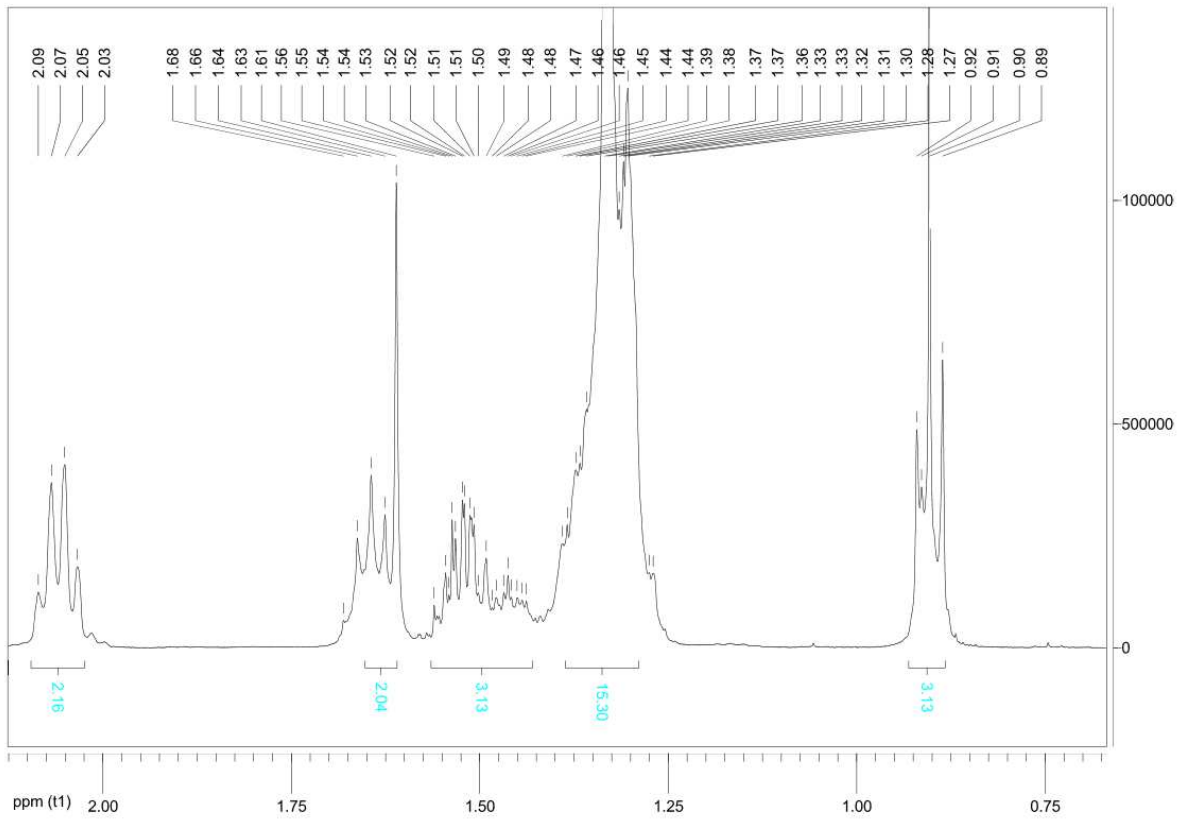
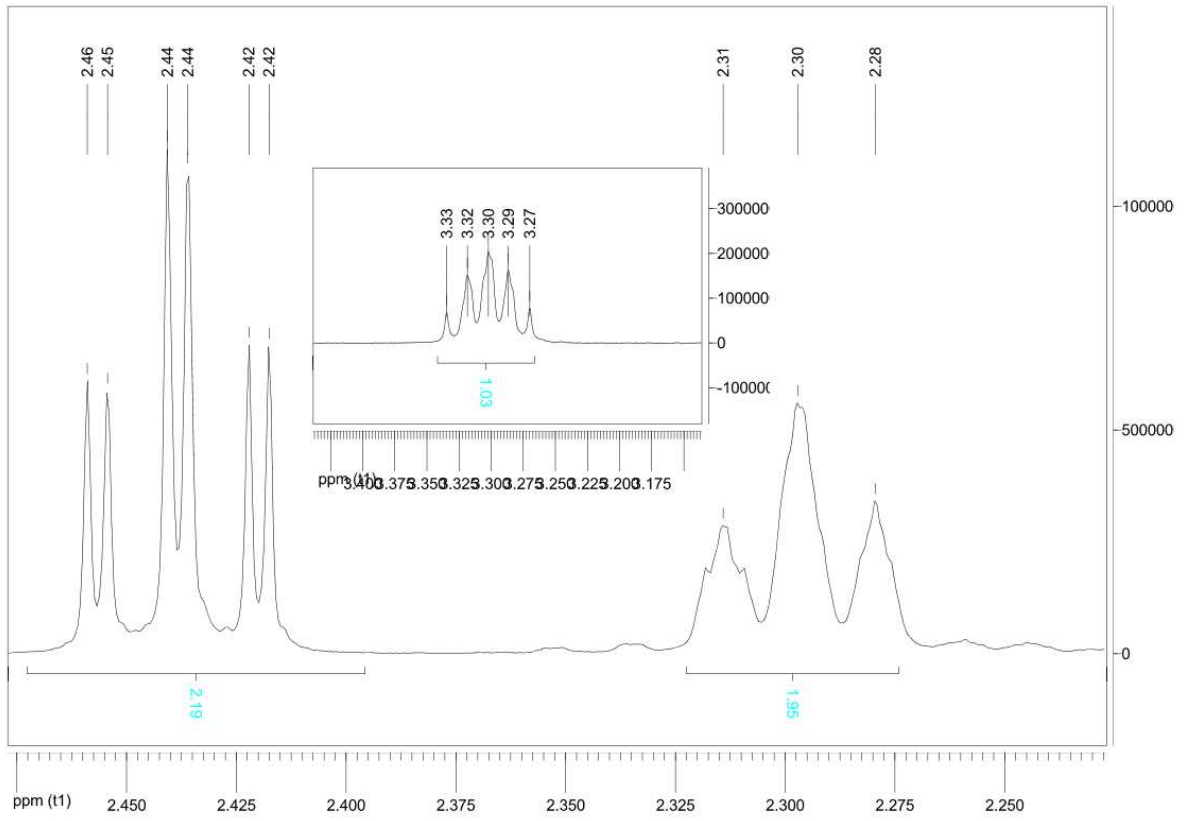


Figure S 4.6: ^{13}C NMR of Compound **33** (100 MHz, Chloroform-*d*)

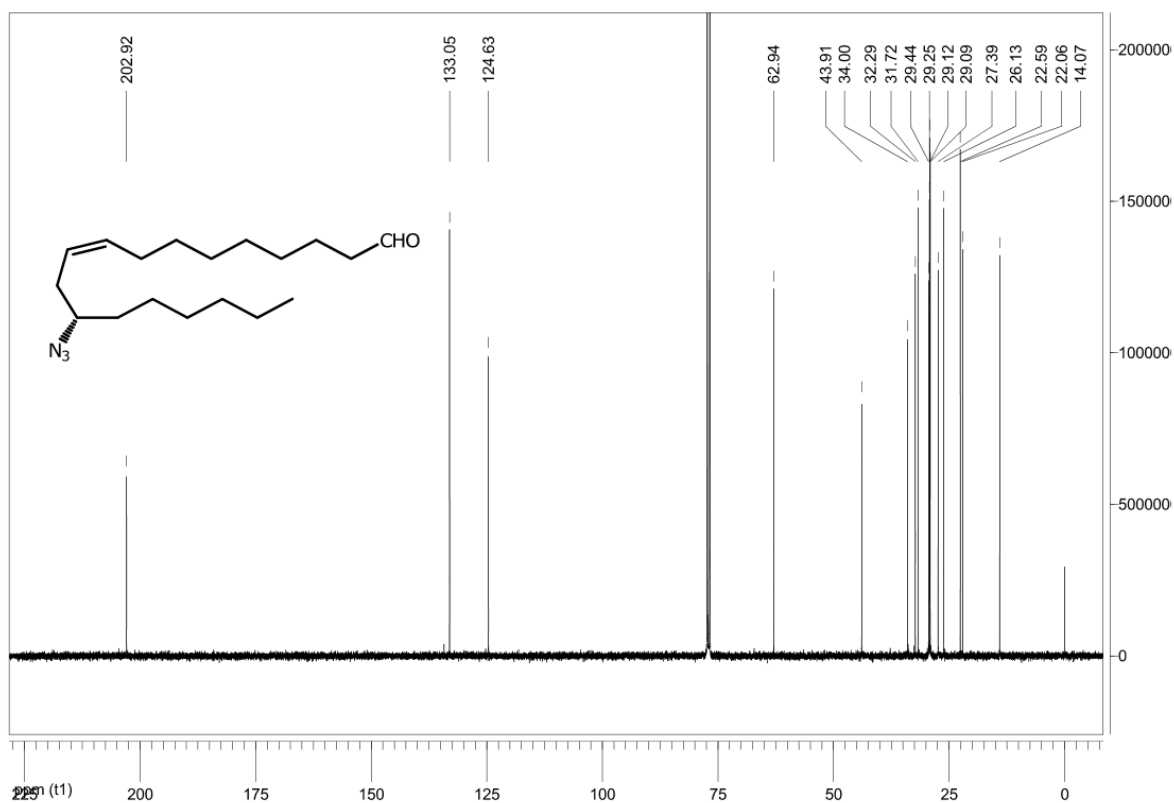
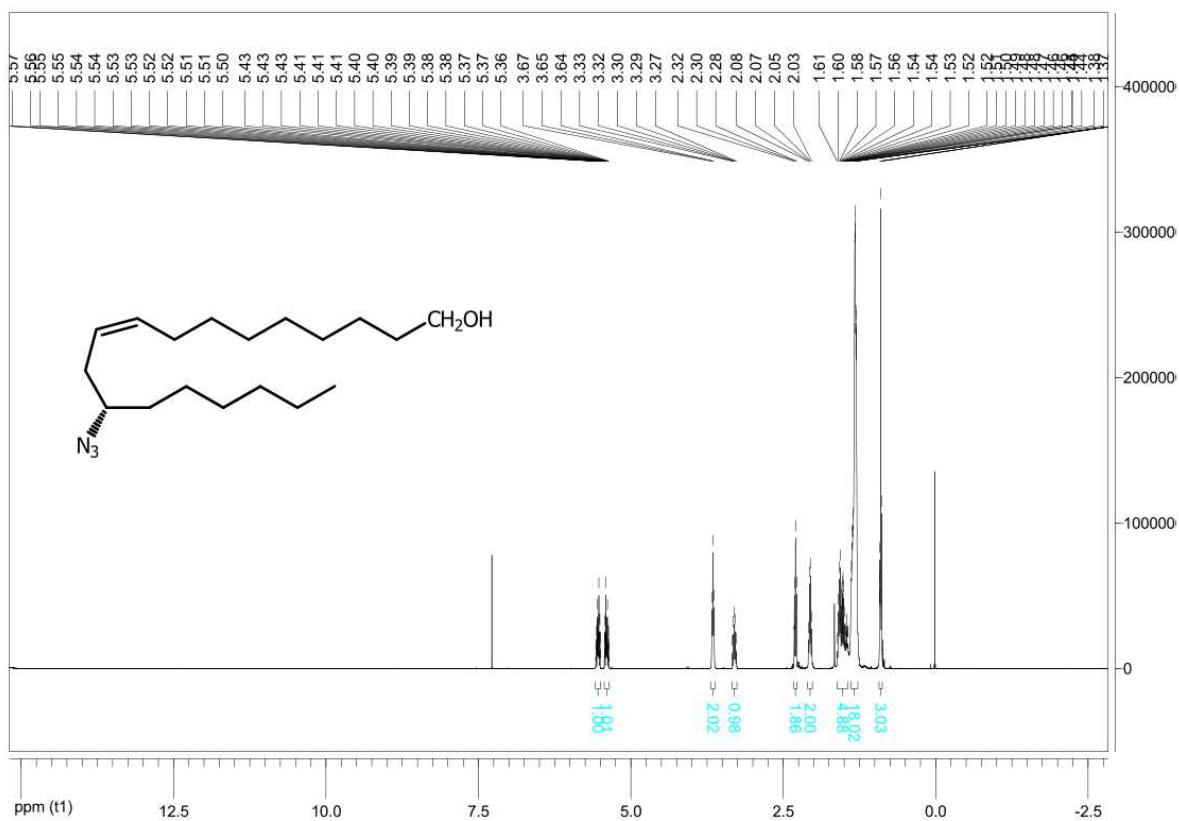


Figure S 4.7: ^1H NMR of Compound **34** (400 MHz, Chloroform-*d*)



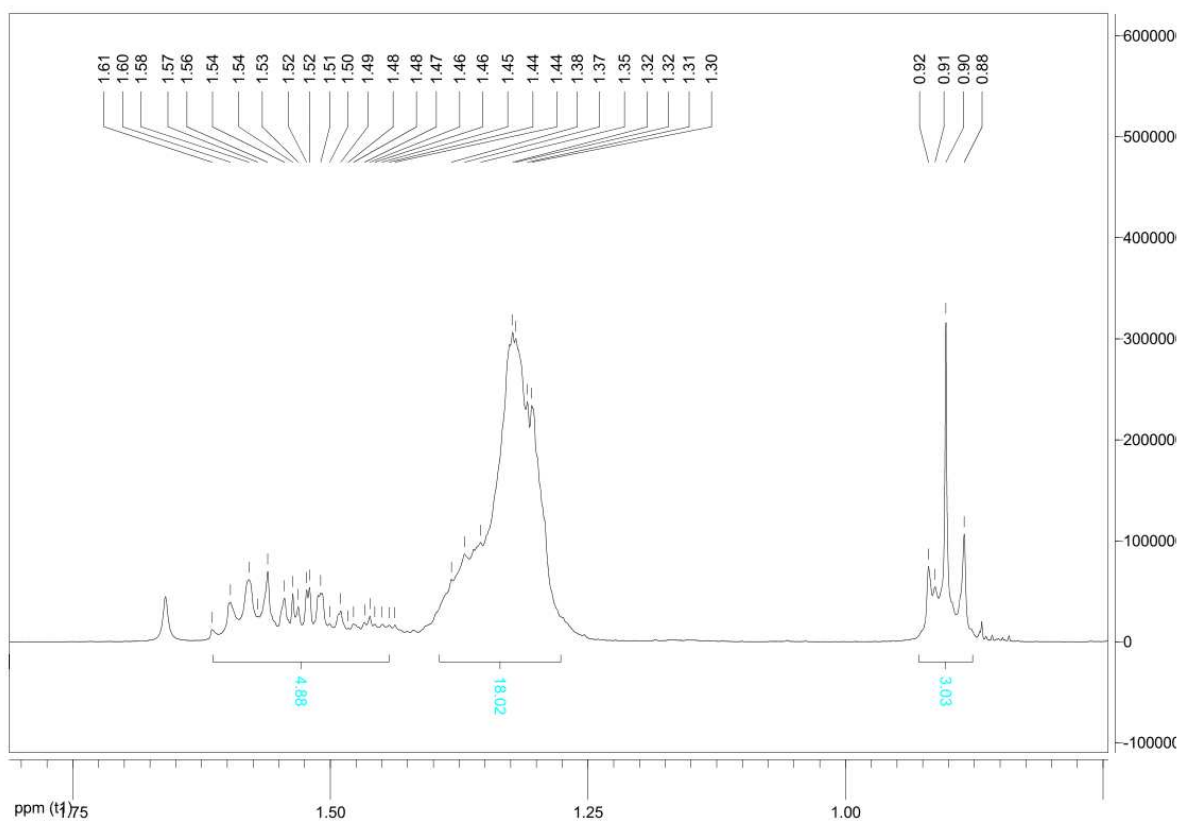
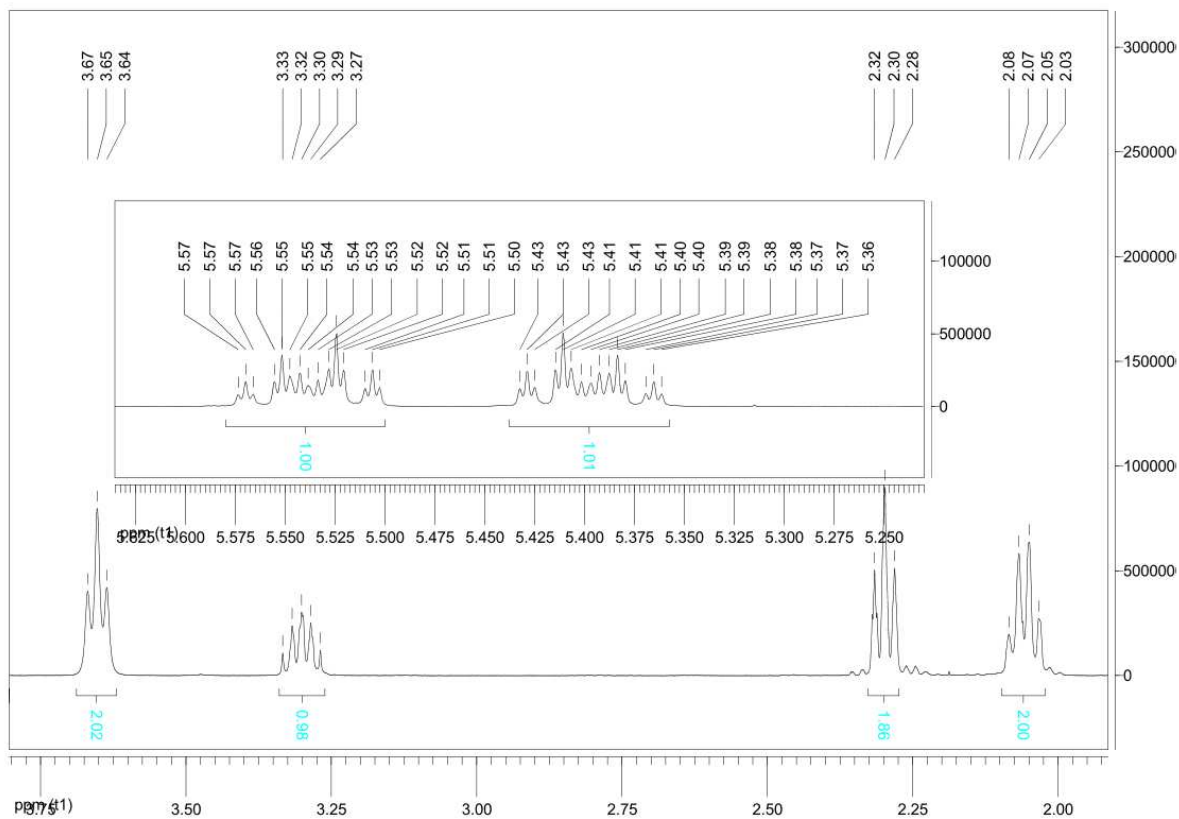


Figure S 4.8: ^{13}C NMR of Compound **34** (100 MHz, Chloroform-*d*)

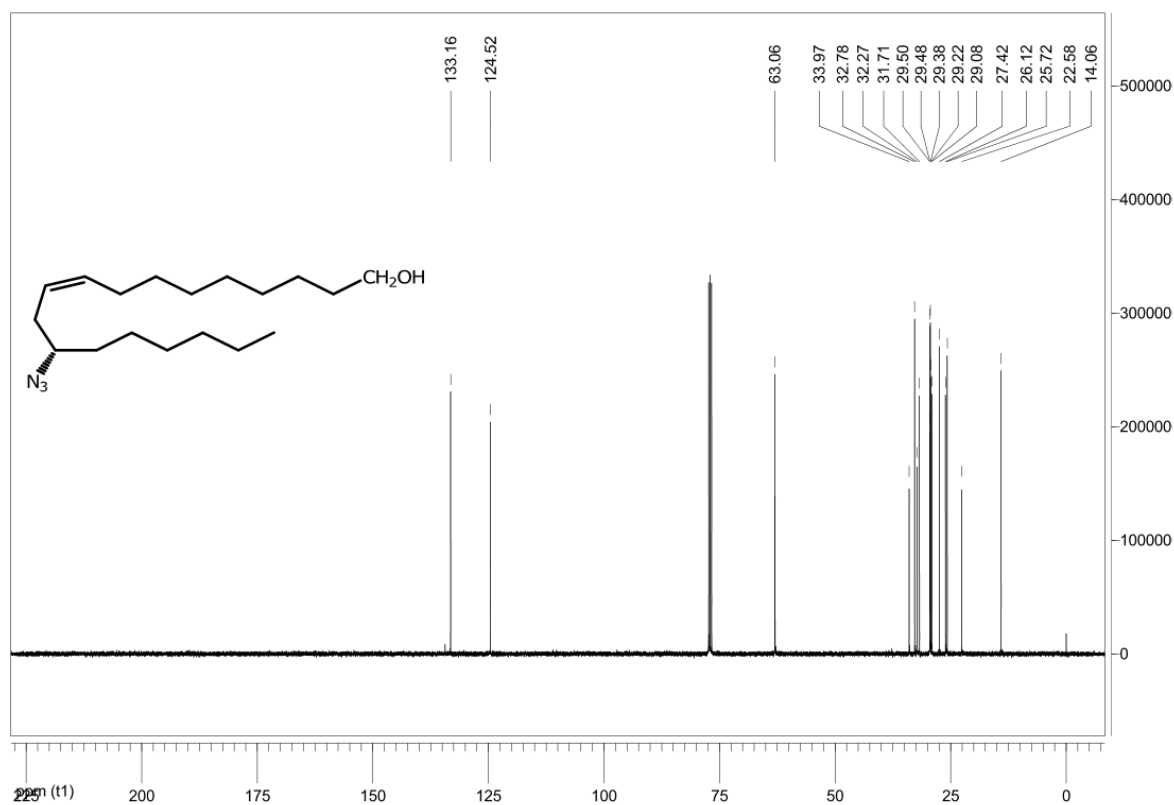
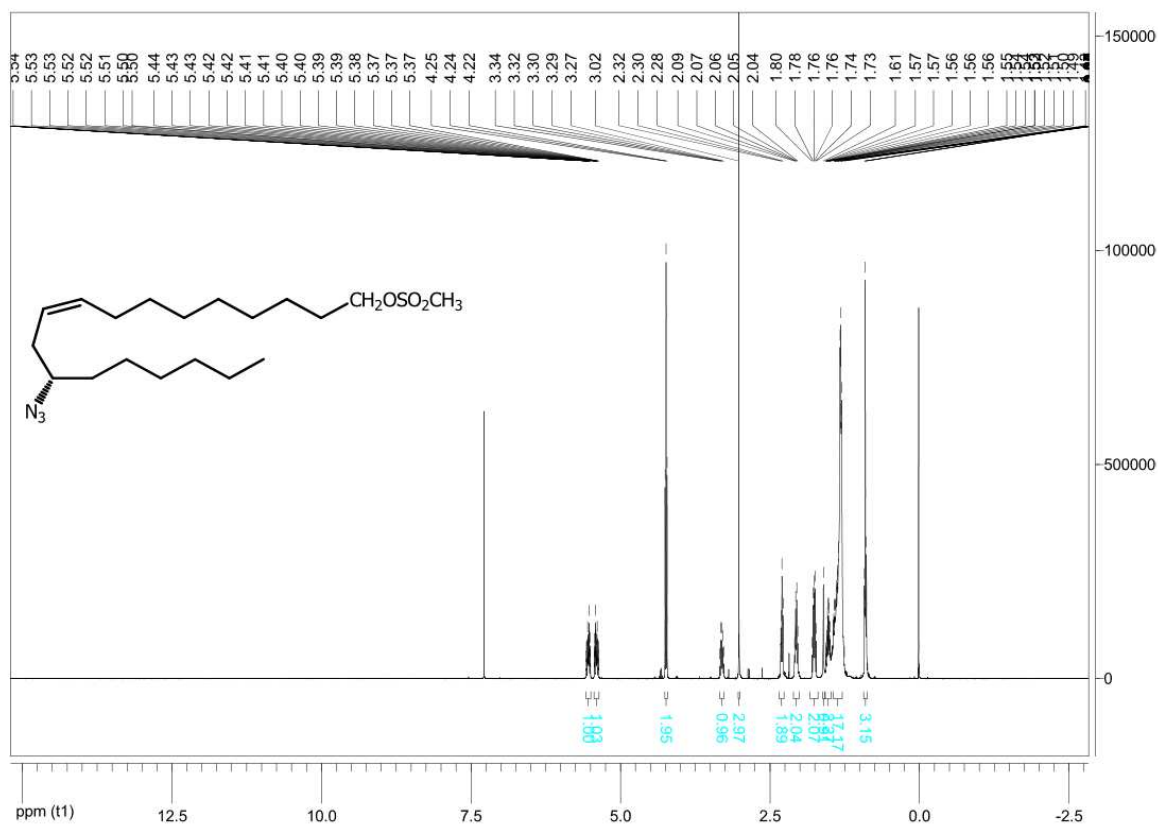
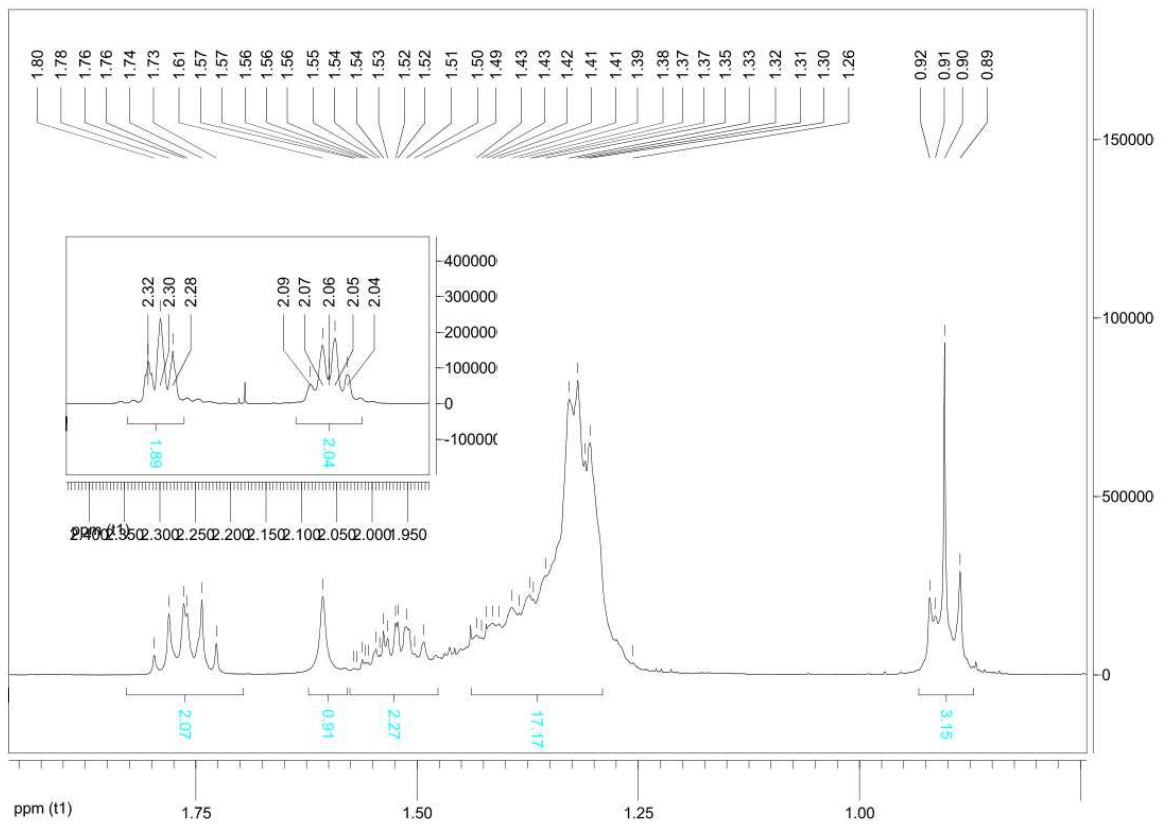
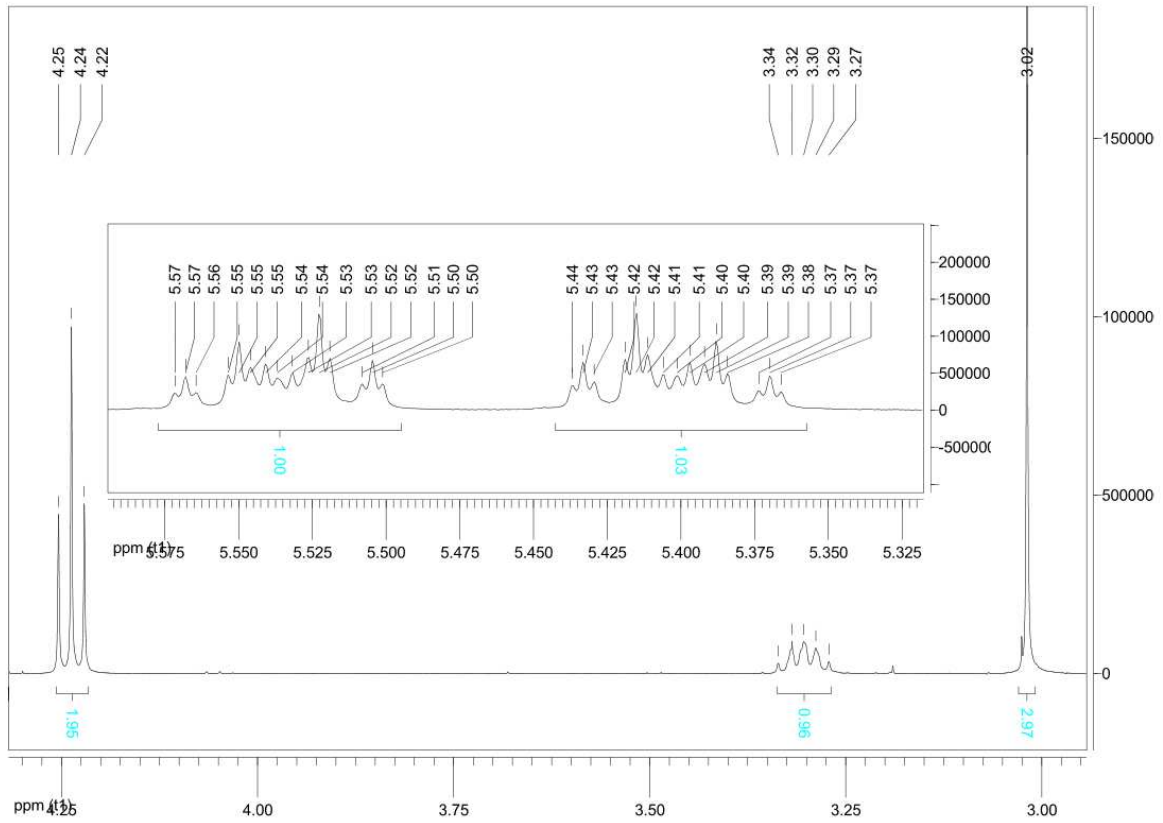


Figure S 4.9: ^1H NMR of Compound **35** (400 MHz, Chloroform-*d*)





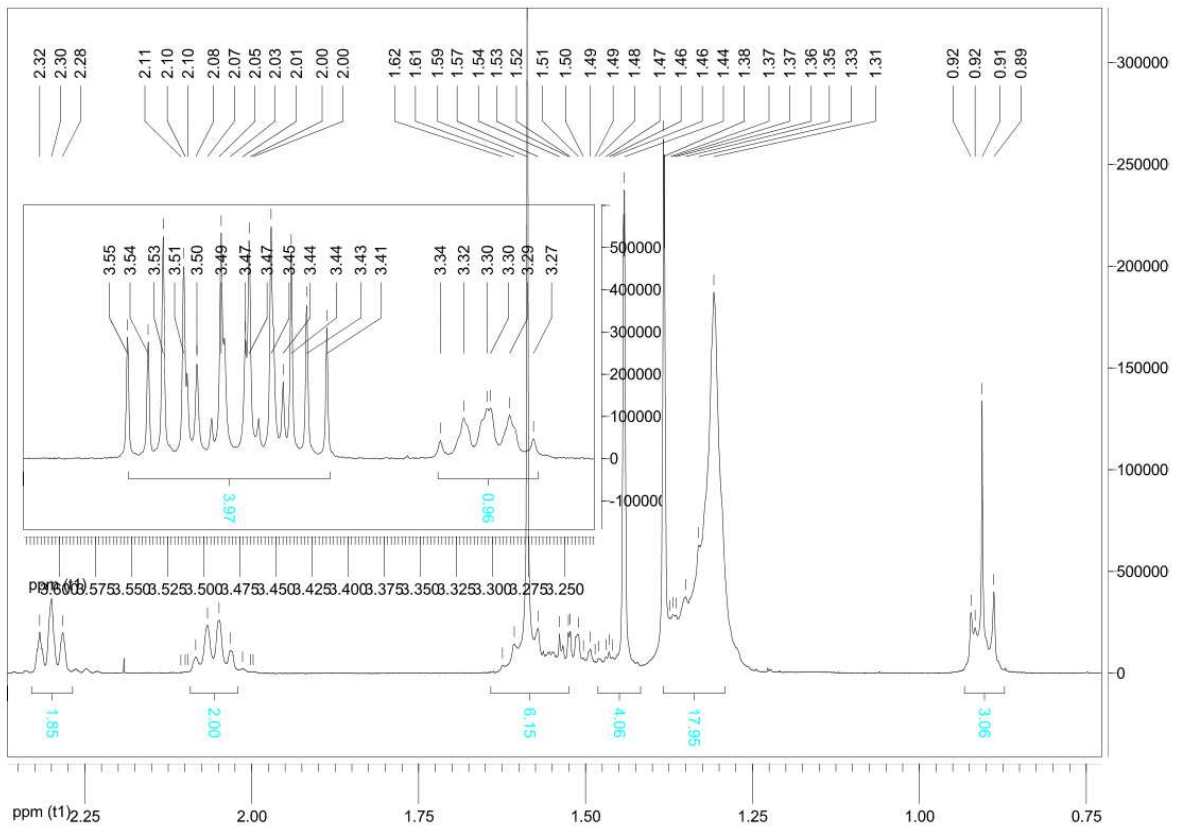
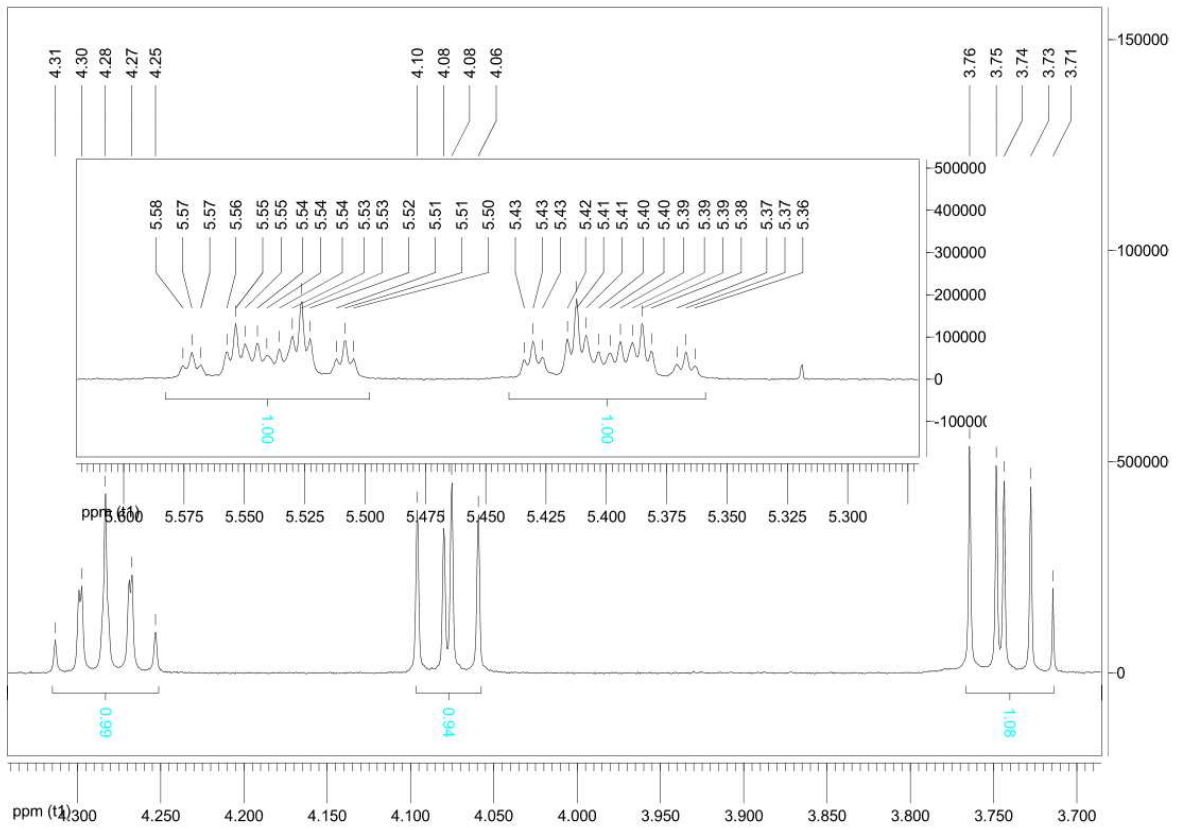


Figure S 4.12: ^{13}C NMR of Compound **36** (100 MHz, Chloroform-*d*)

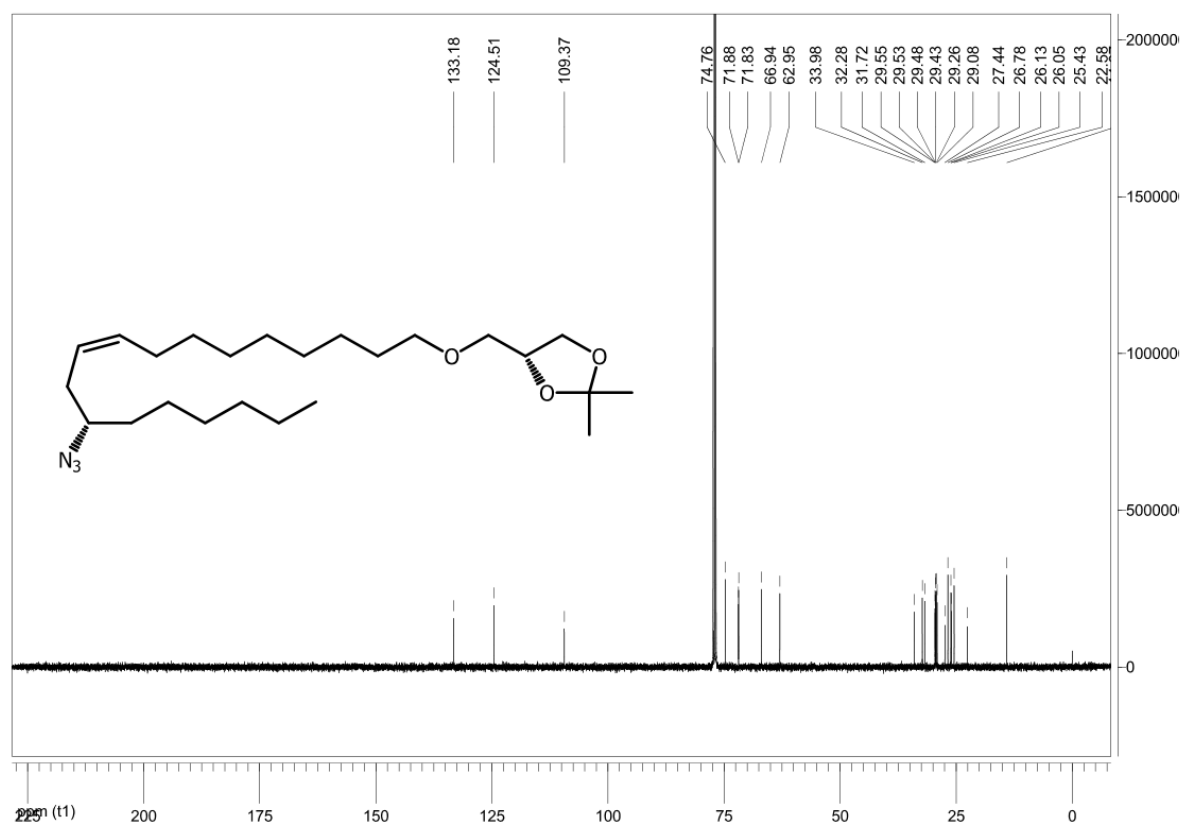
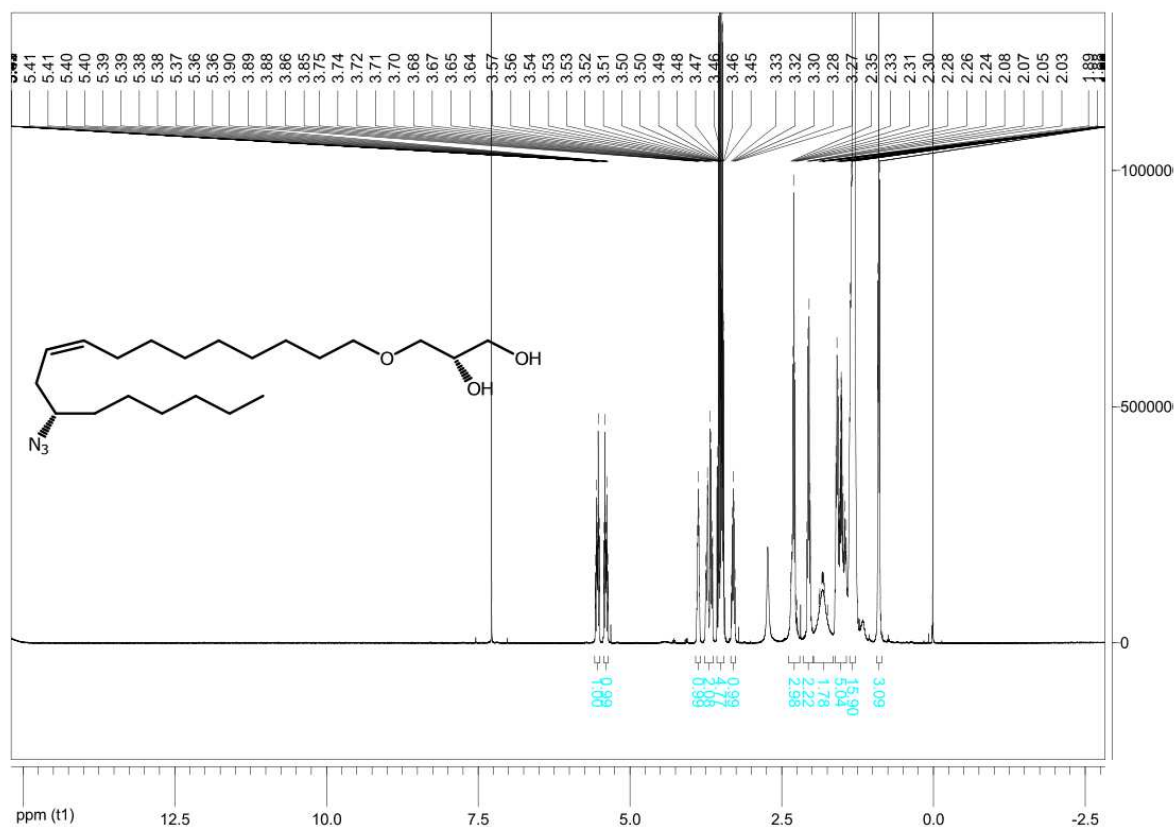
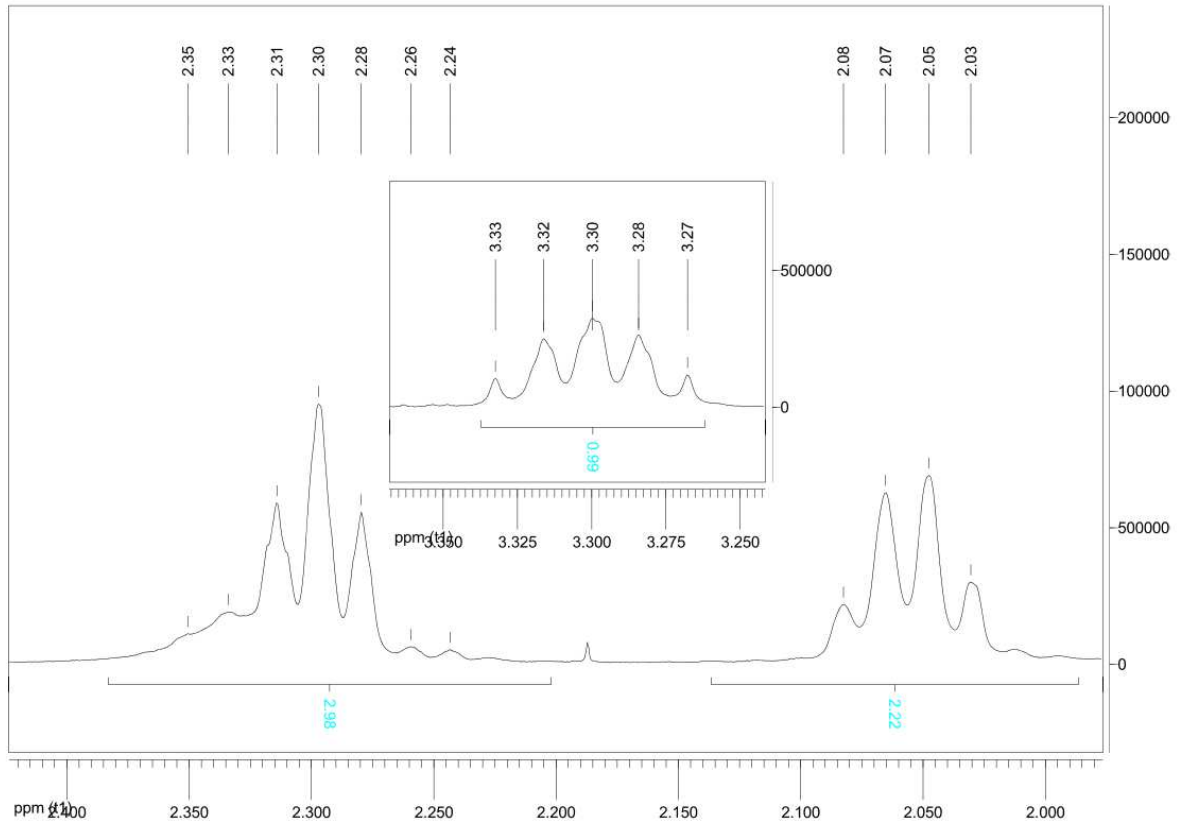
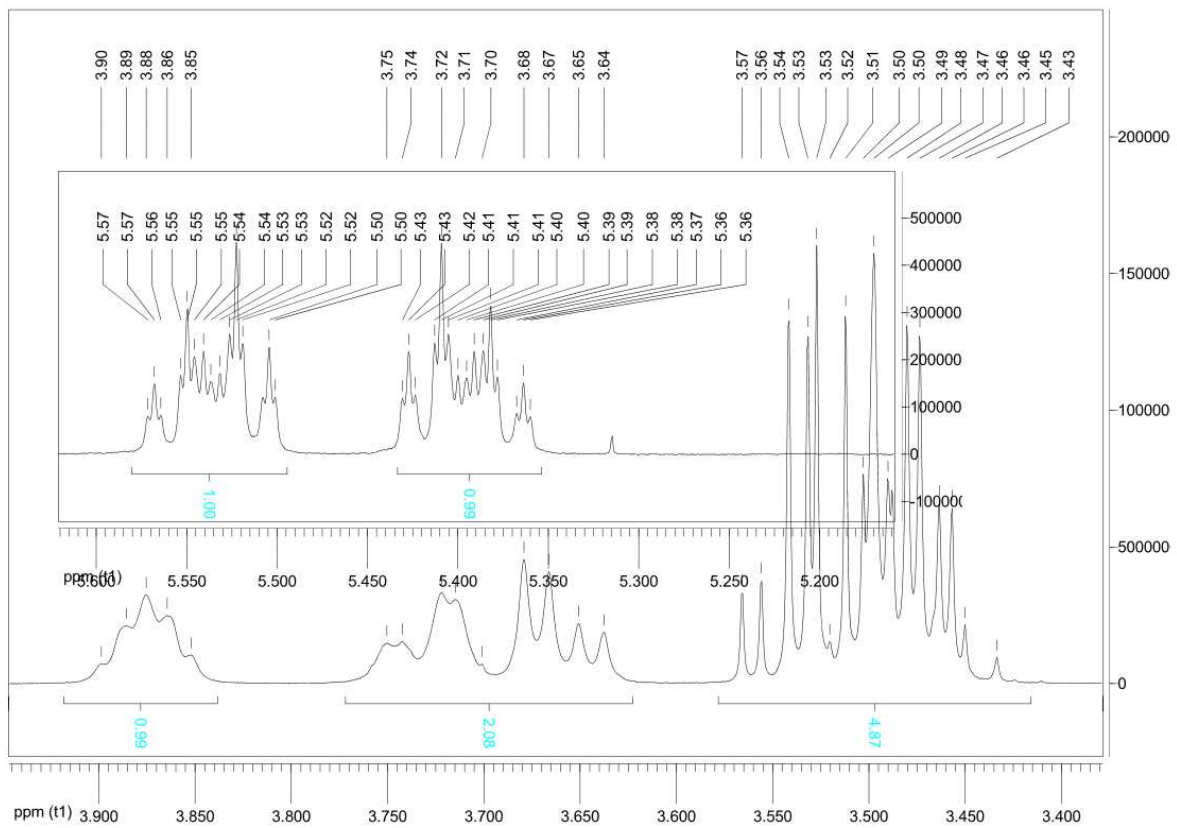


Figure S 4.13: ^1H NMR of Compound **10** (400 MHz, Chloroform-*d*)





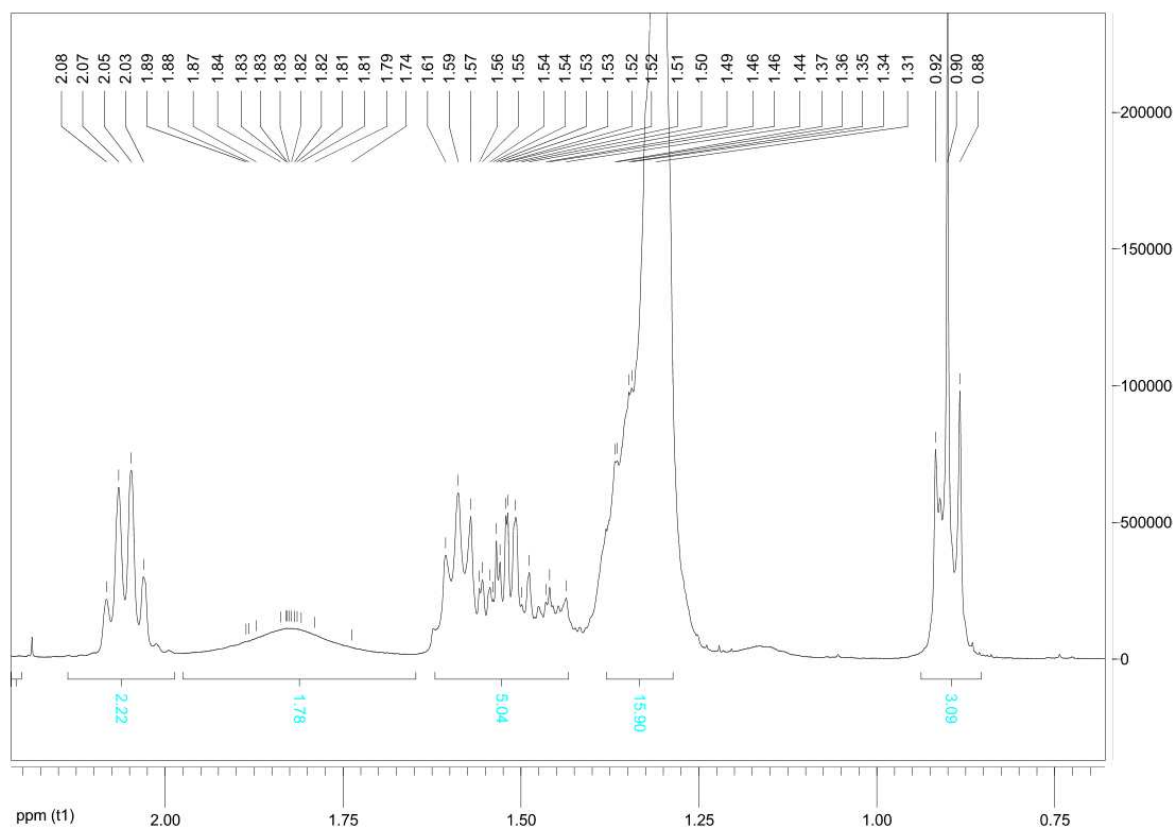


Figure S 4.14: ^{13}C NMR of Compound **10** (100 MHz, Chloroform-*d*)

