

Supplementary Materials

Figure S1. ^1H -NMR of compound **3a**.

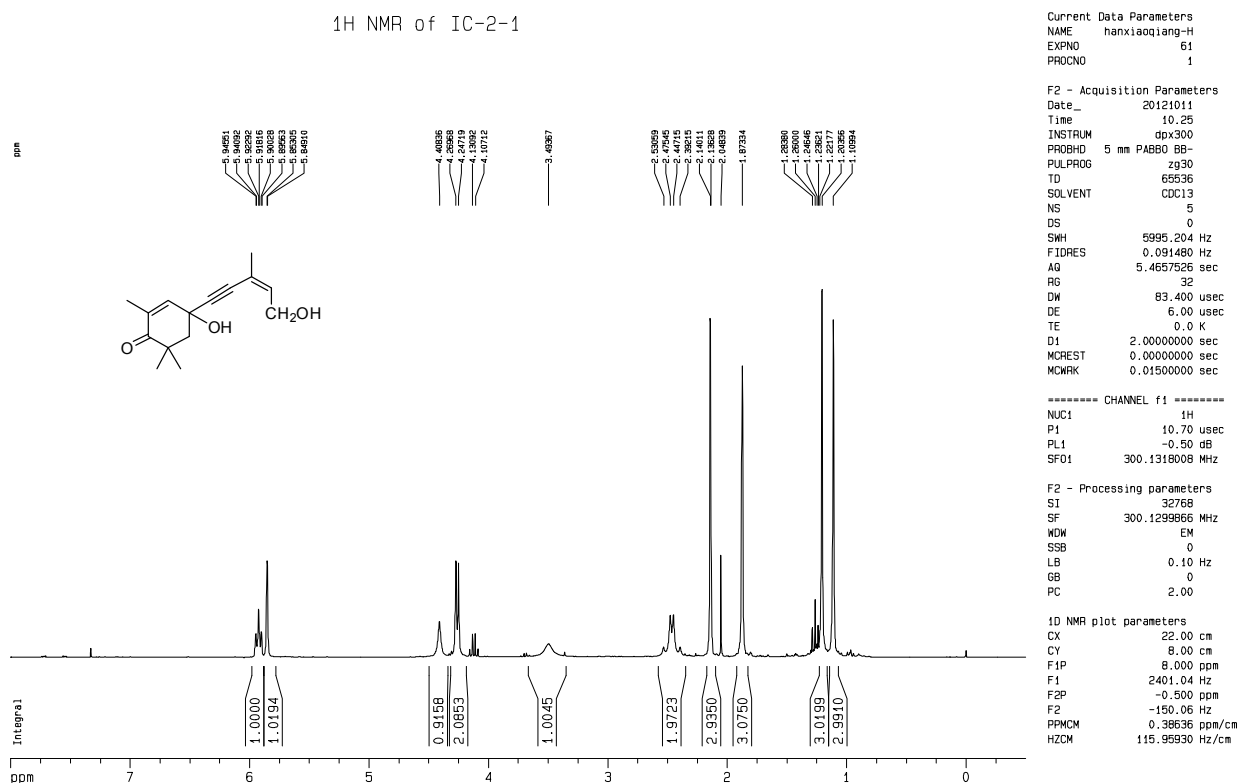


Figure S2. ^{13}C -NMR of compound **3a**.

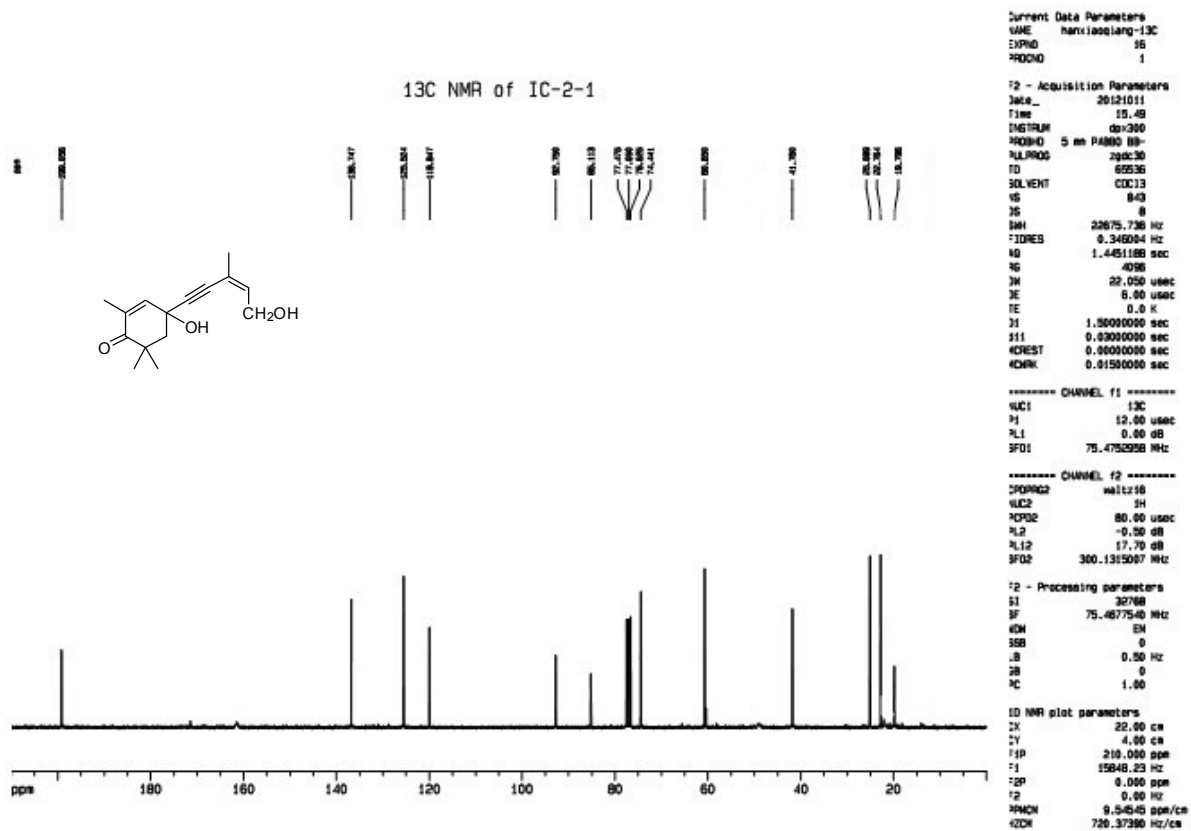


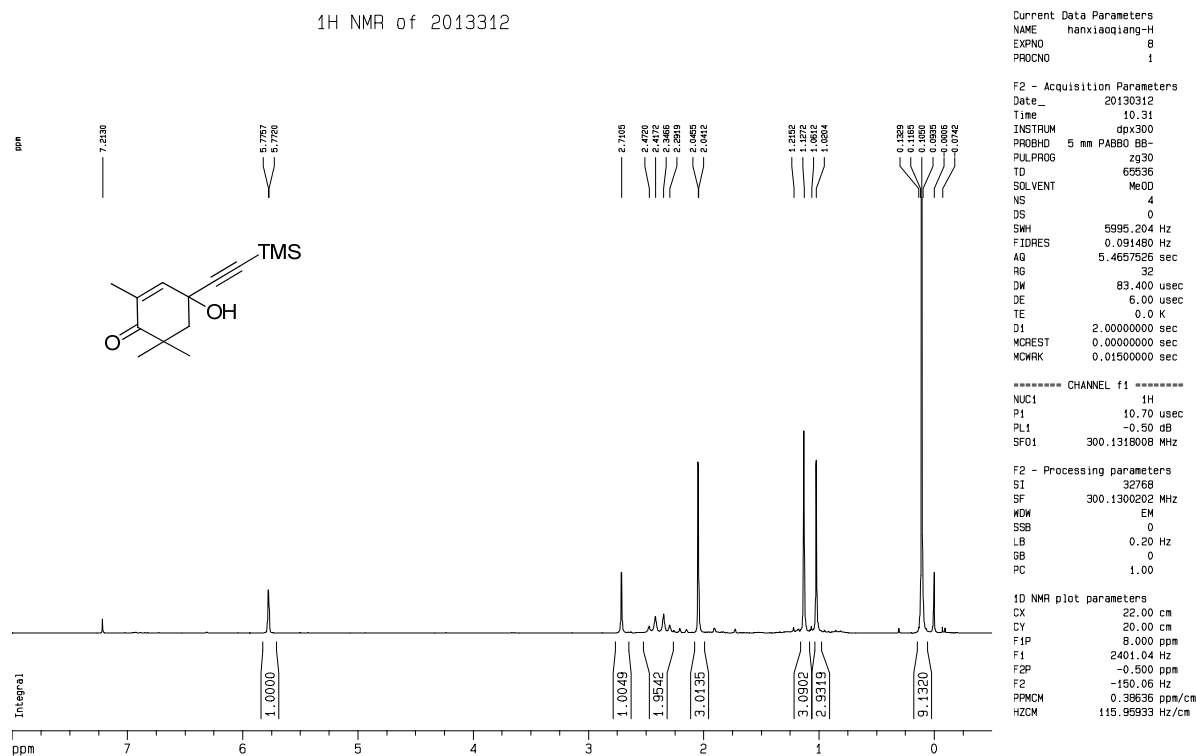
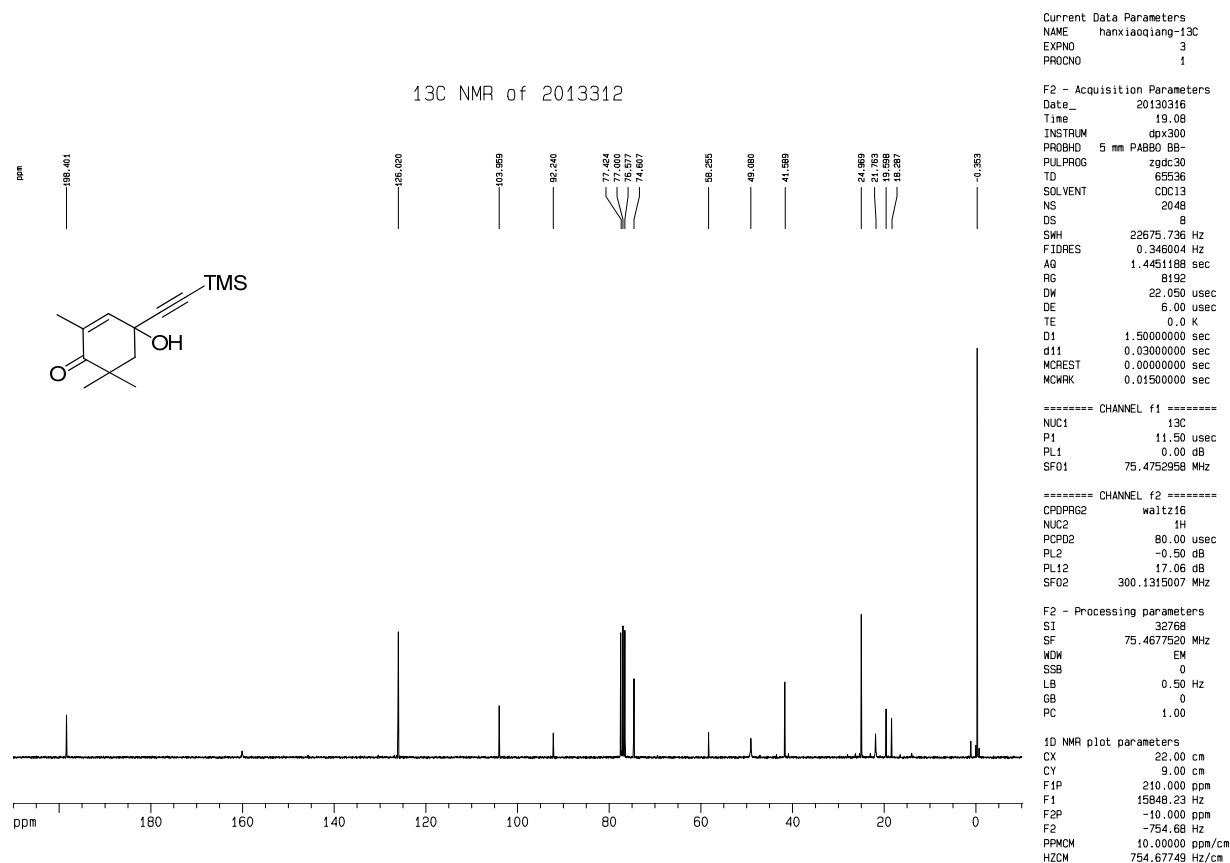
Figure S3. ^1H -NMR of compound 3b.Figure S4. ^{13}C -NMR of compound 3b.

Figure S5. MS of compound 3b (M+Na).

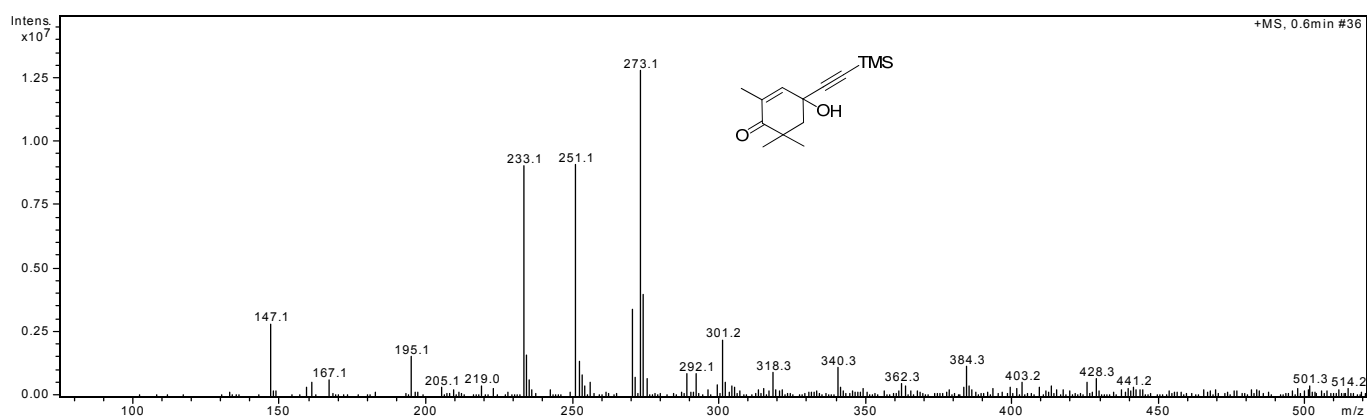
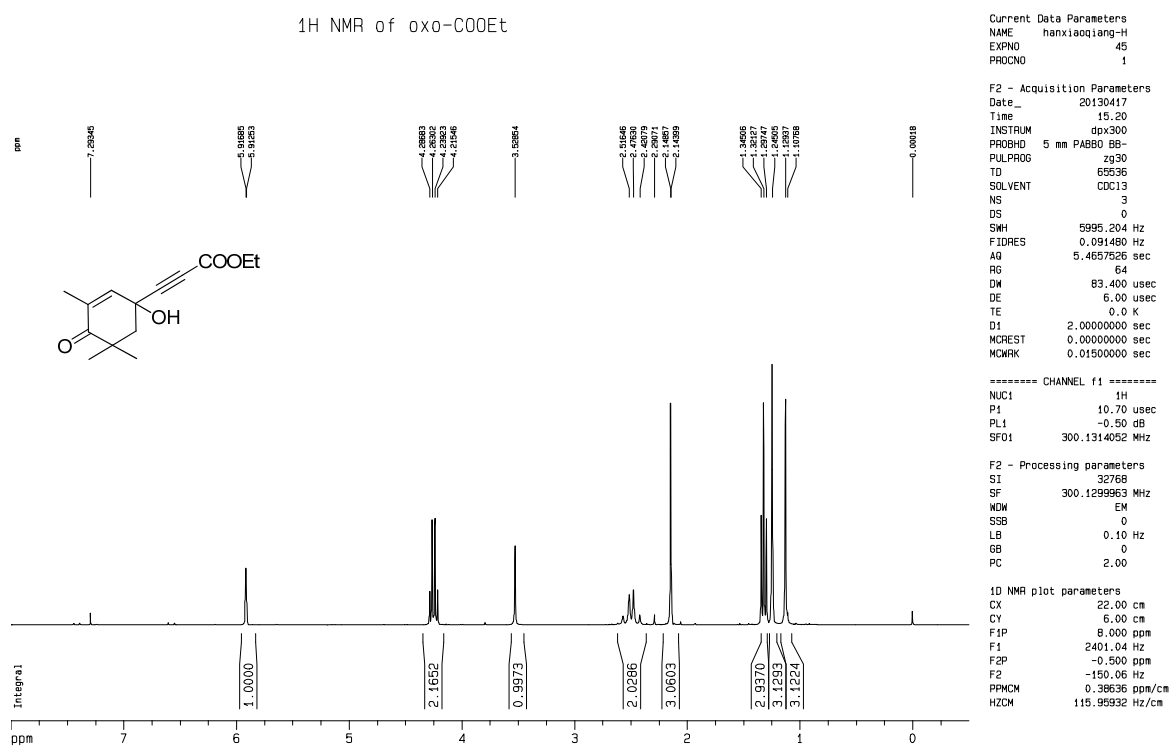
Figure S6. ¹H-NMR of compound 3c.

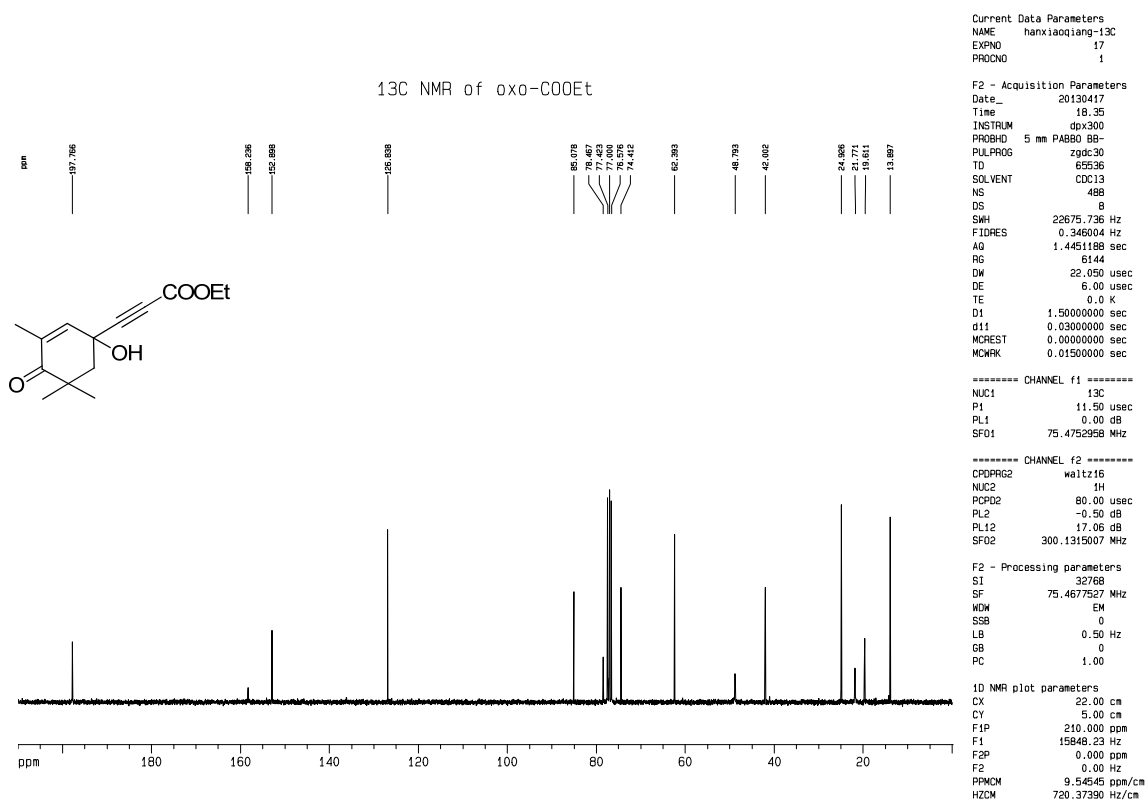
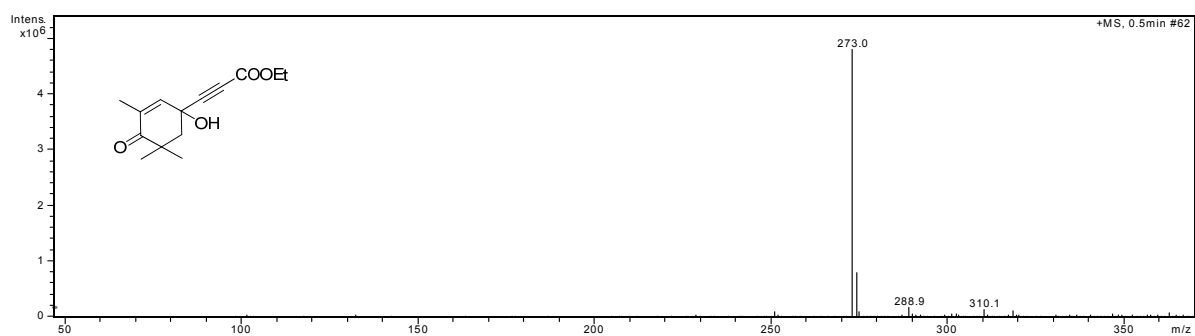
Figure S7. ^{13}C -NMR of compound 3c.Figure S8. MS of compound 3c ($\text{M}+\text{Na}$).

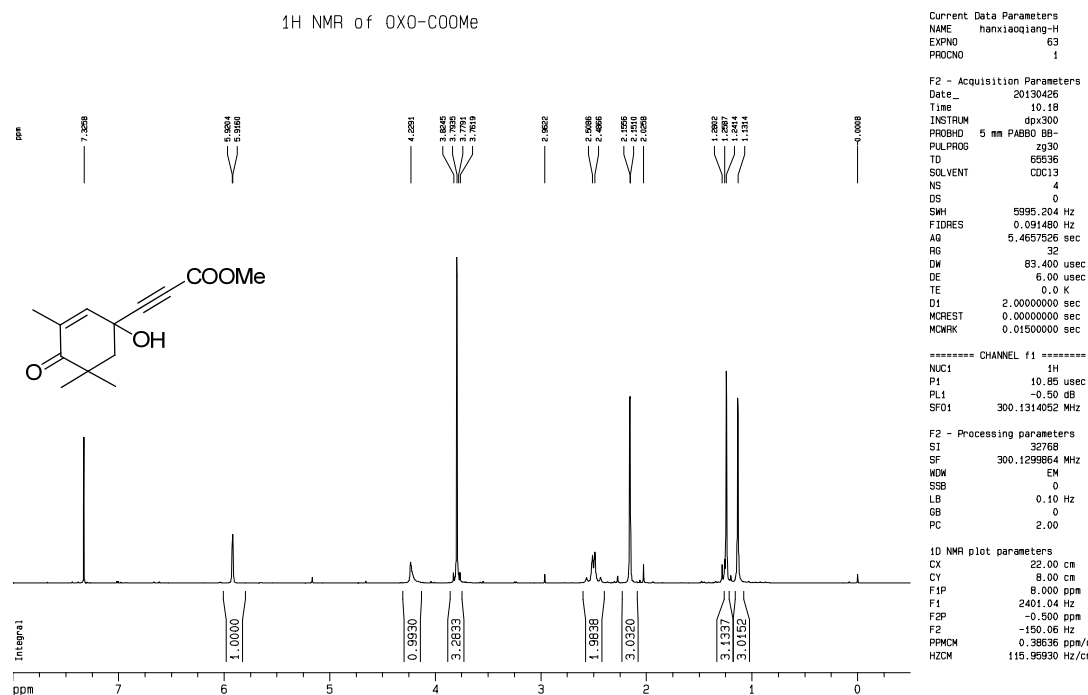
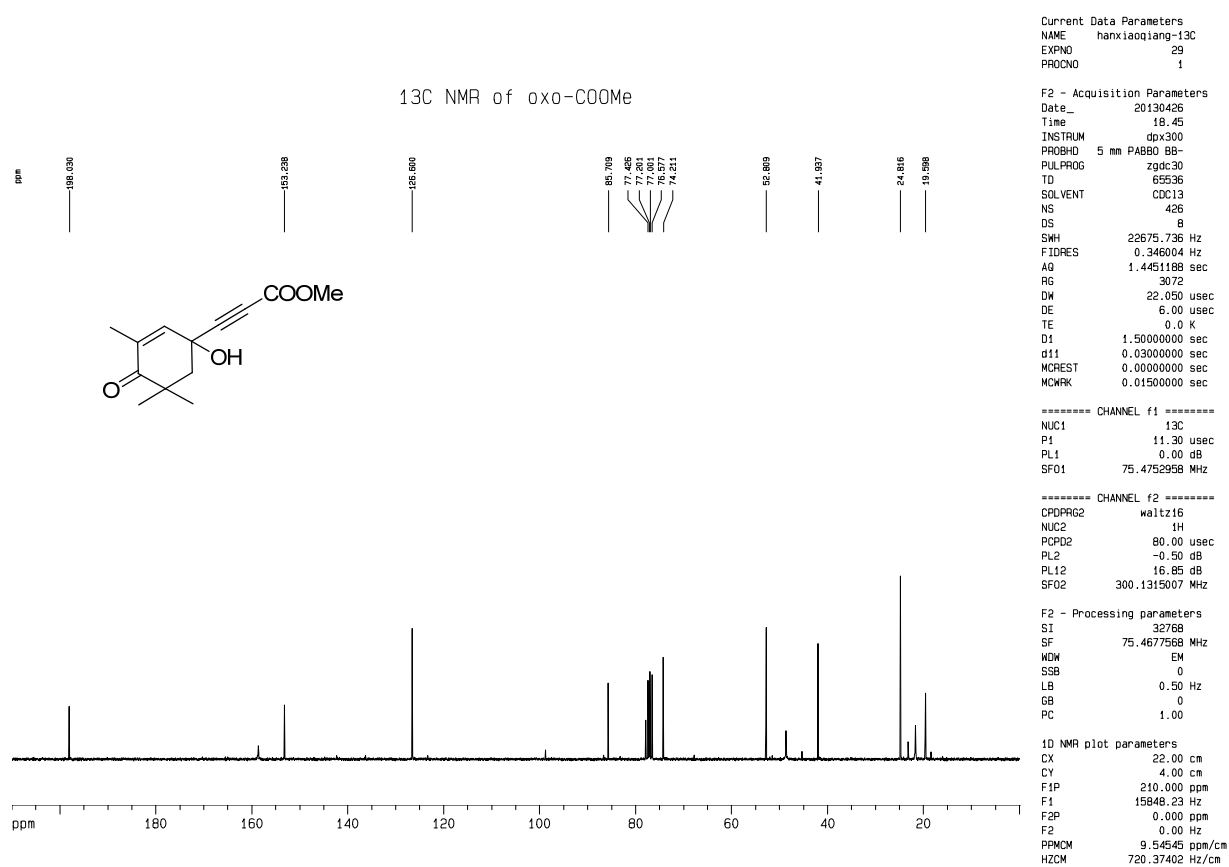
Figure S9. ^1H -NMR of compound 3d.Figure S10. ^{13}C -NMR of compound 3d.

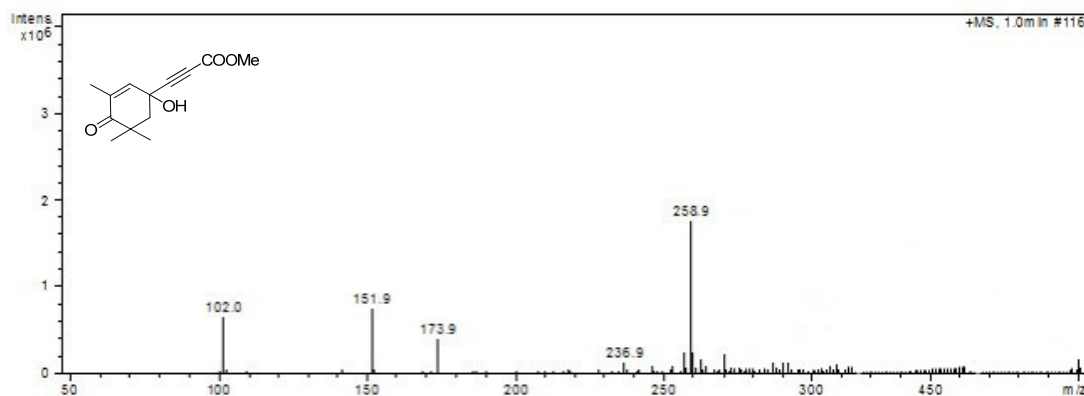
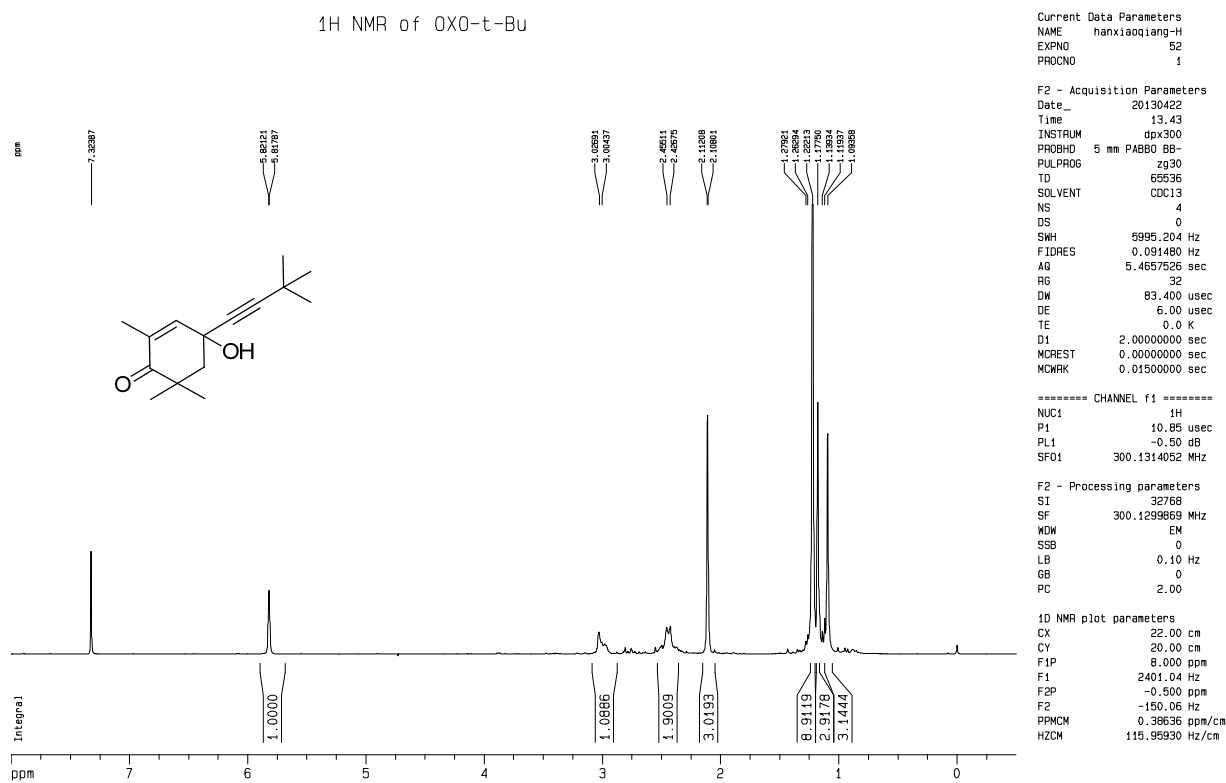
Figure S11. MS of compound **3d** (M+Na).Figure S12. ^1H -NMR of compound **3e**.

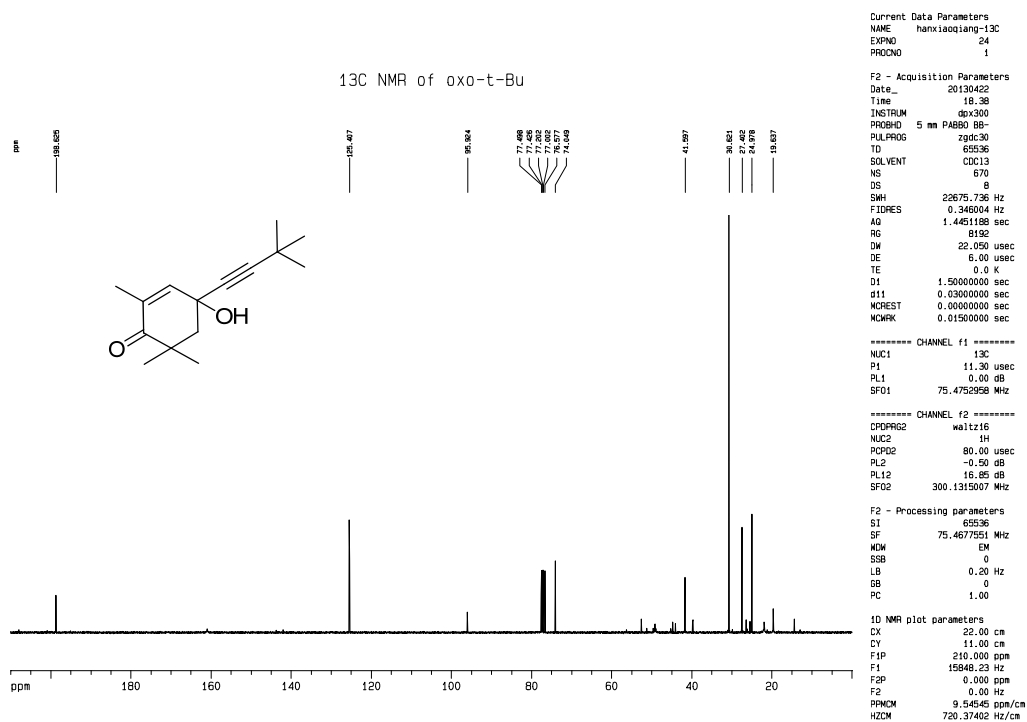
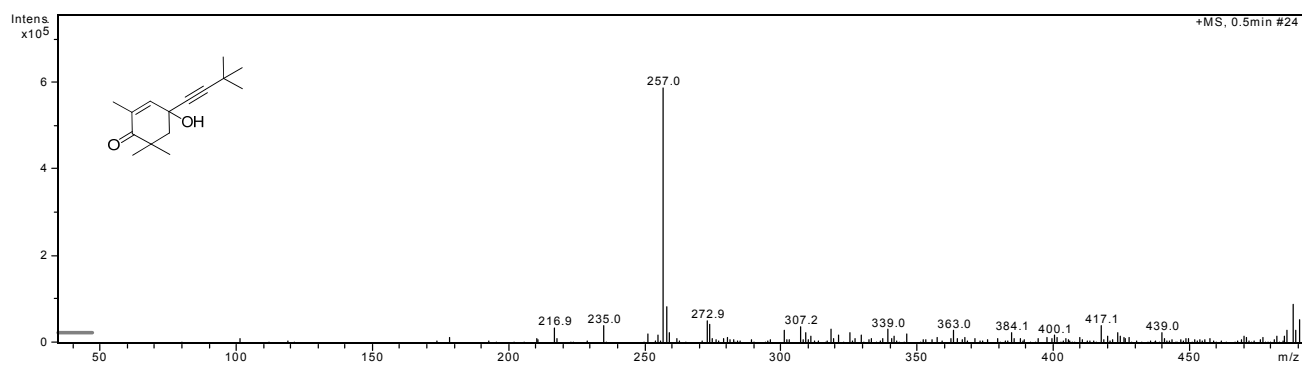
Figure S13. ^{13}C -NMR of compound 3e.Figure S14. MS of compound 3e ($\text{M}+\text{Na}$).

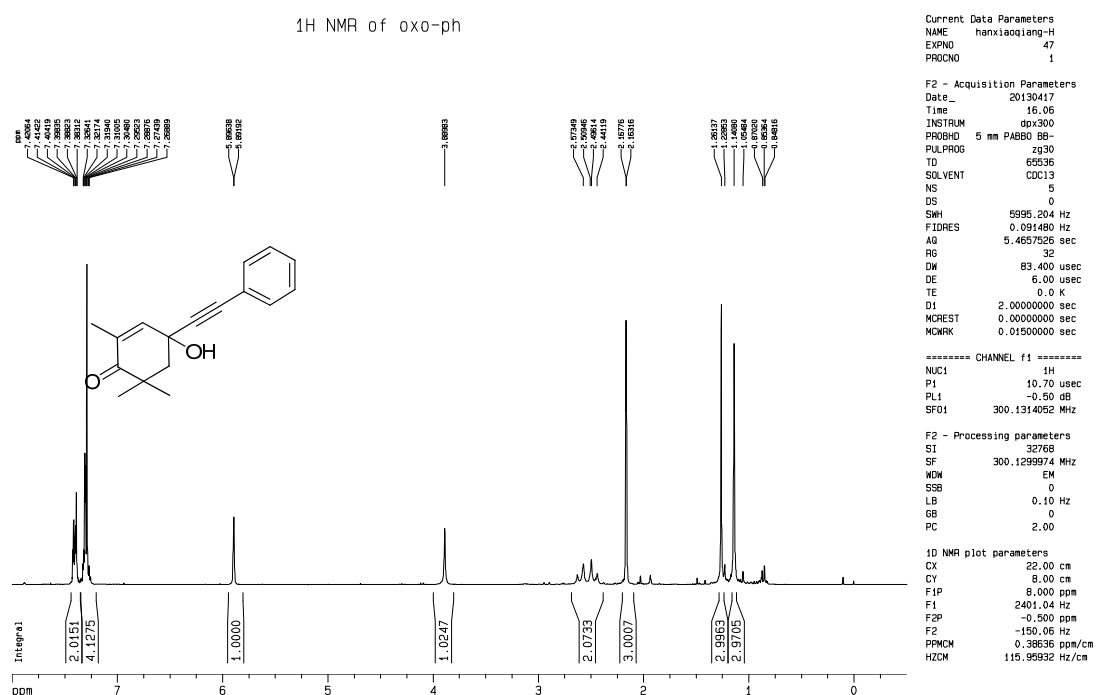
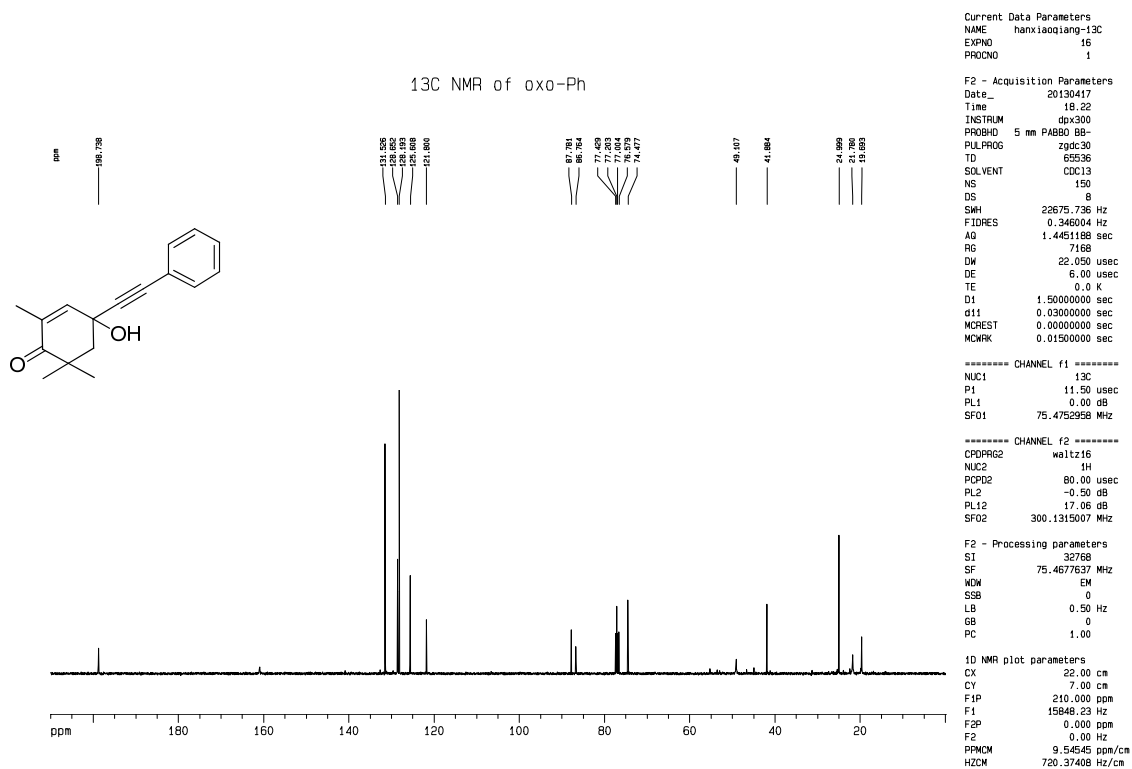
Figure S15. ^1H -NMR of compound 3f.Figure S16. ^{13}C -NMR of compound 3f.

Figure S17. MS of compound 3f (M+Na).

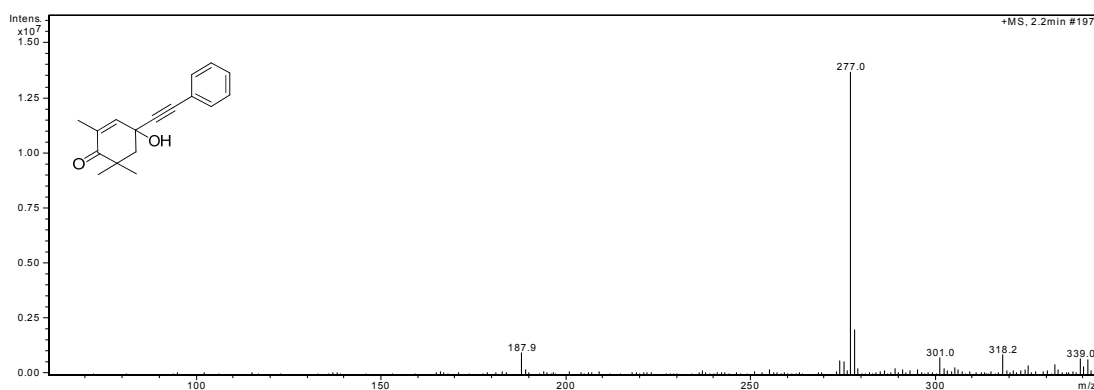
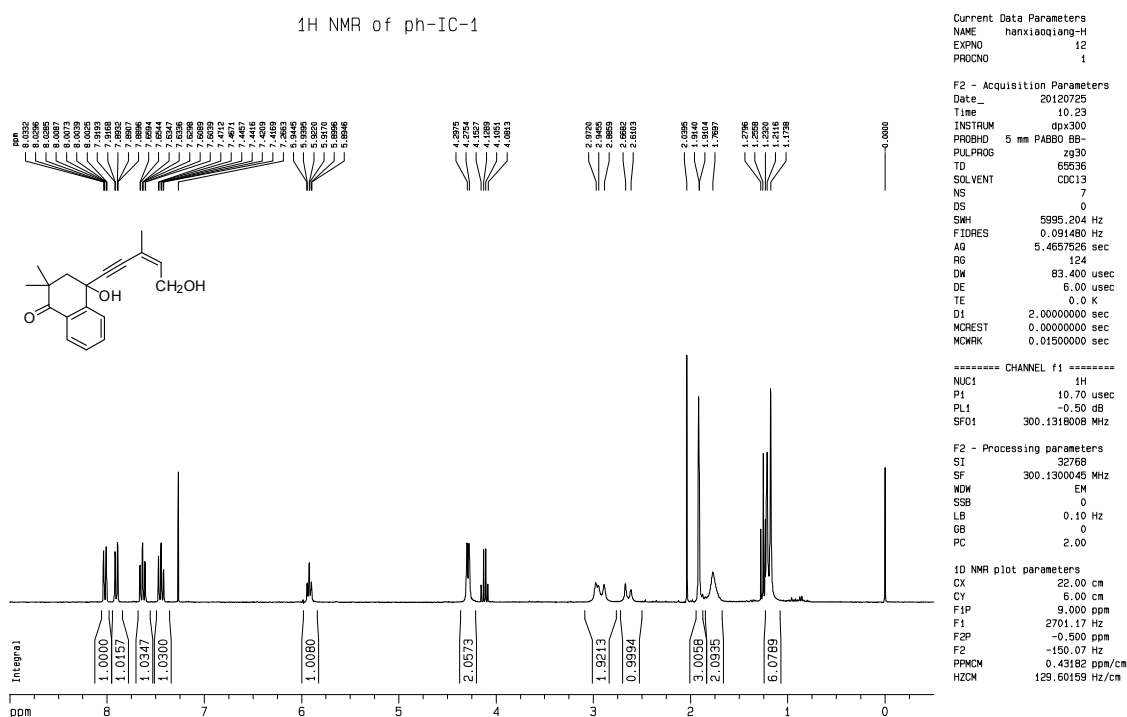
Figure S18. ¹H-NMR of compound 6a.

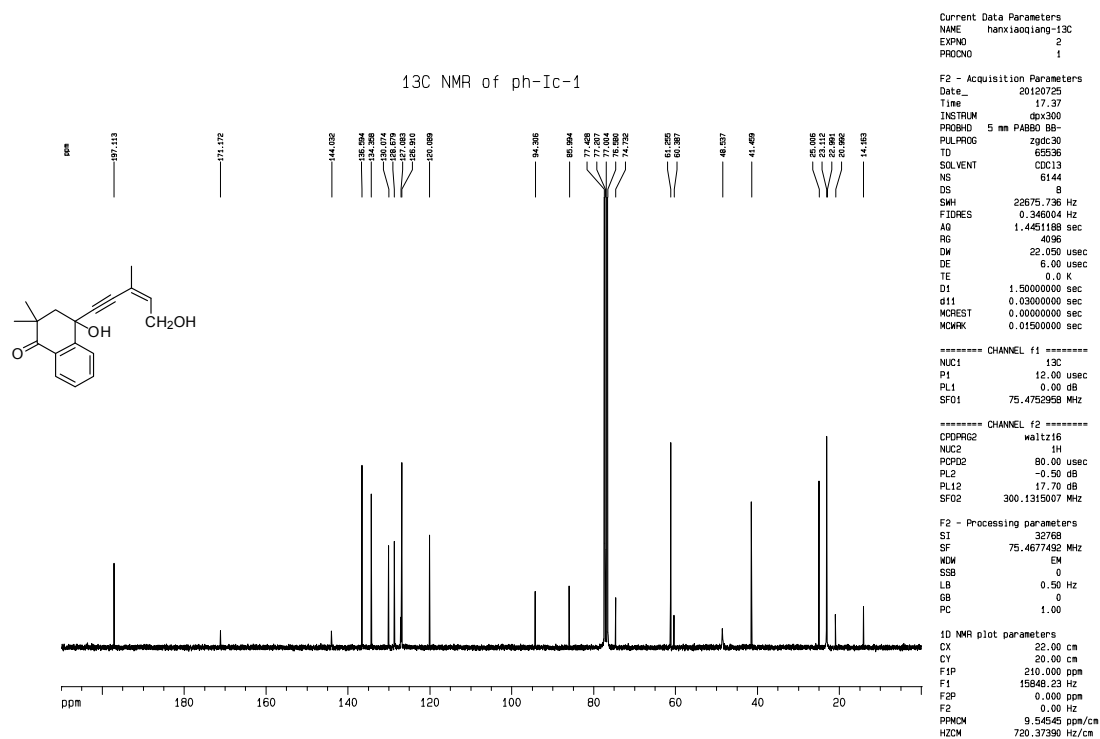
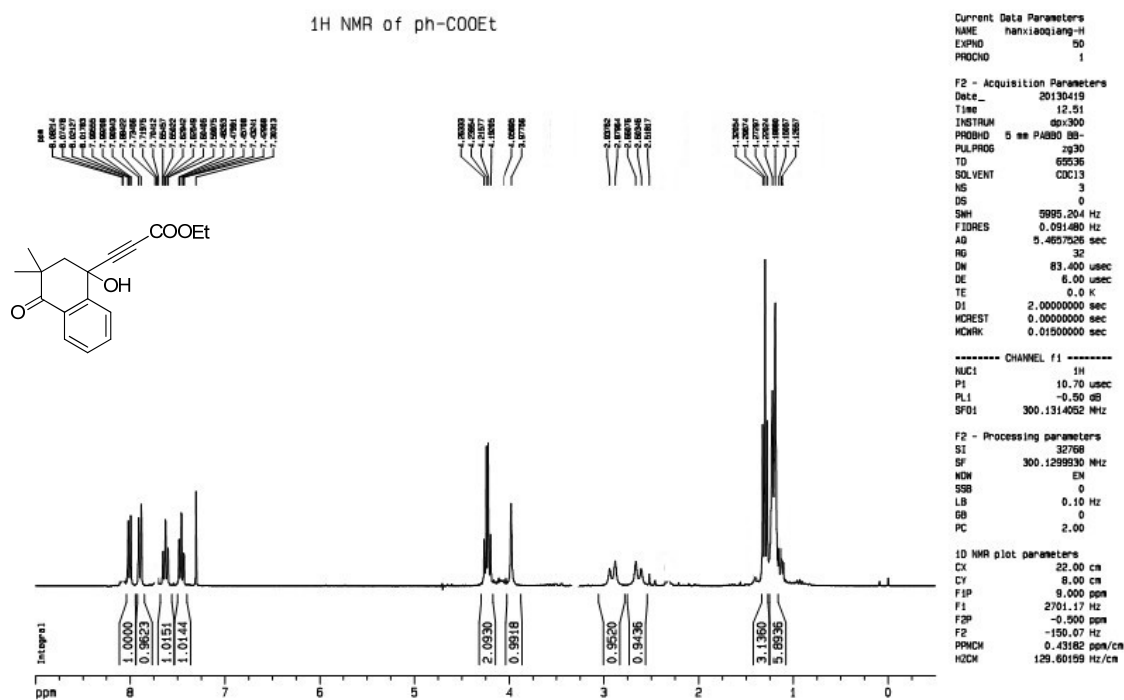
Figure S19. ^{13}C -NMR of compound 6a.Figure S20. ^1H -NMR of compound 6b.

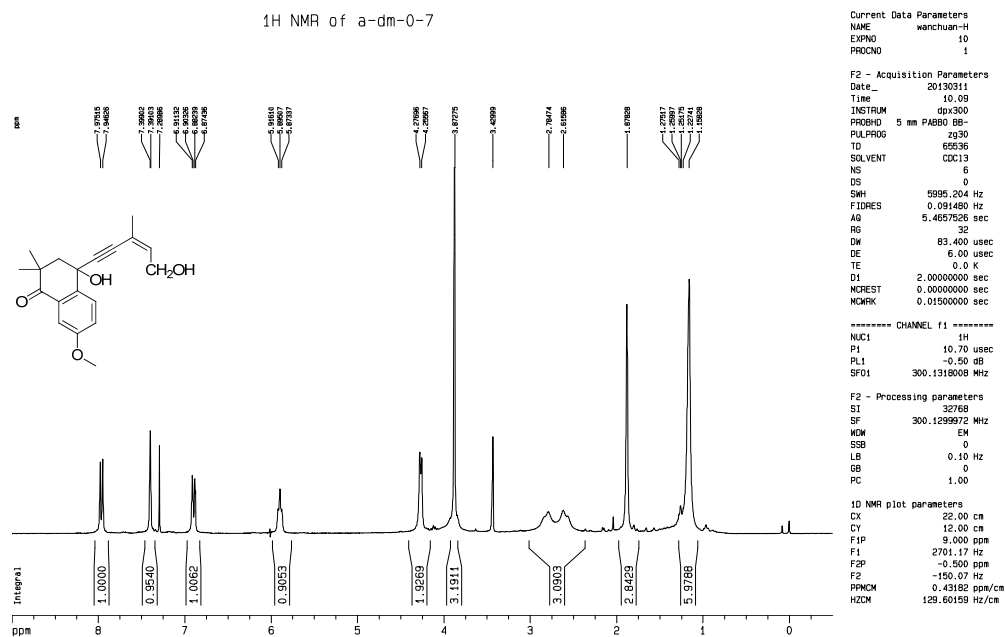
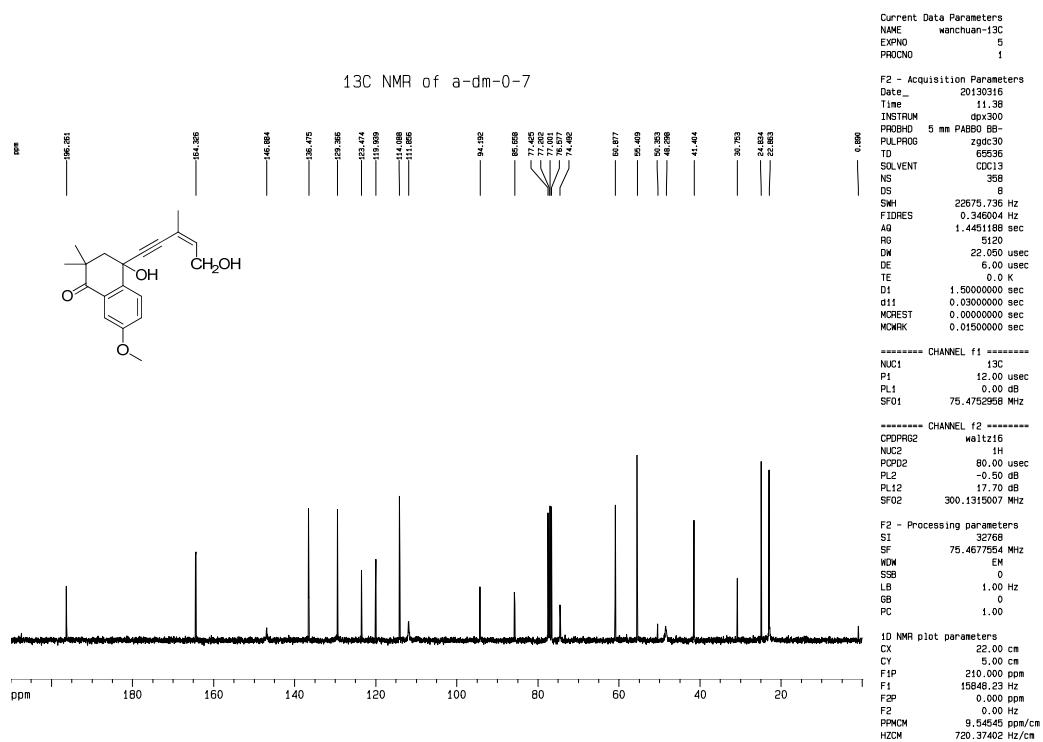
Figure S23. ^1H -NMR of compound 6c.Figure S24. ^{13}C -NMR of compound 6c.

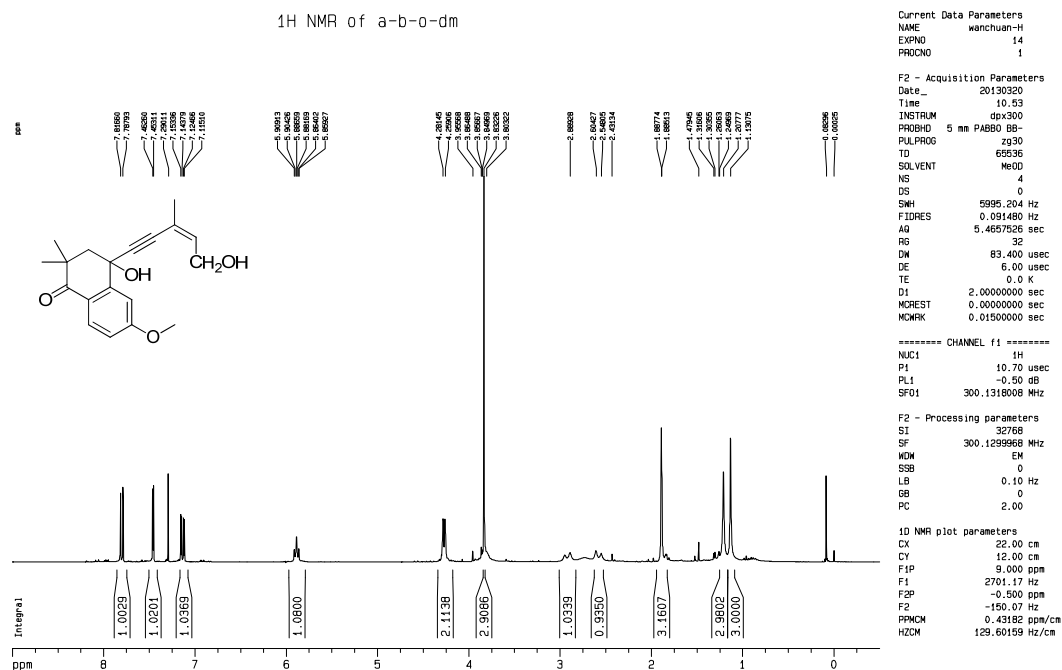
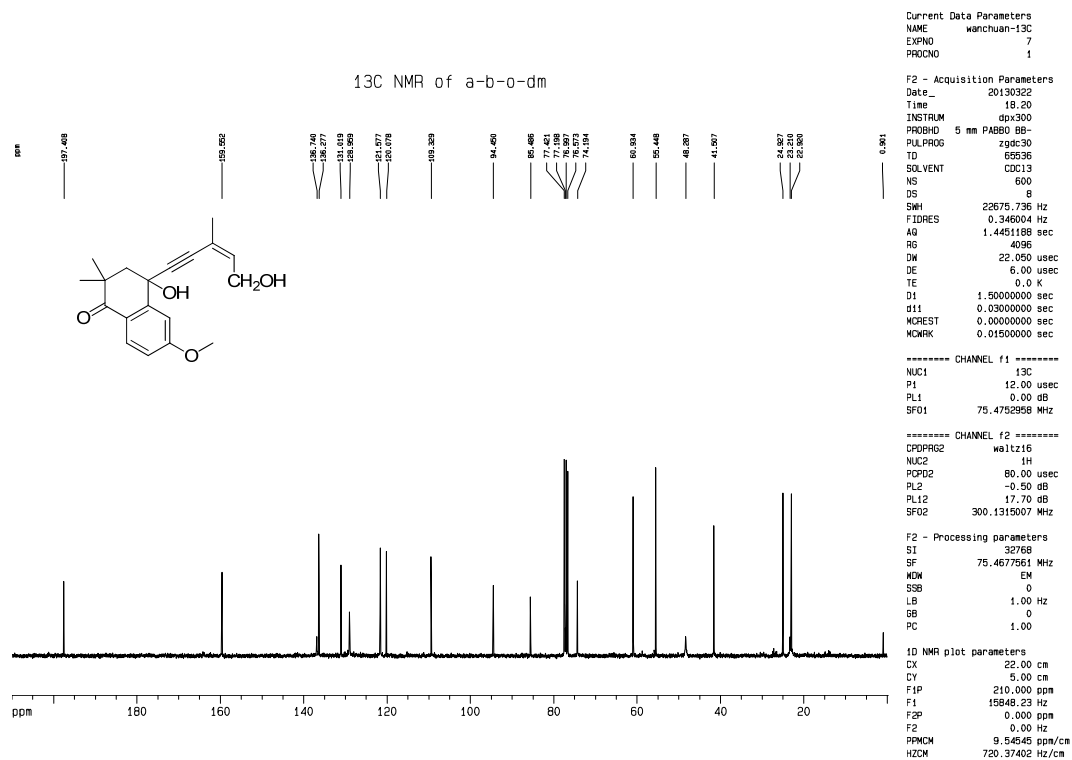
Figure S25. ^1H -NMR of compound 6d.Figure S26. ^{13}C -NMR of compound 6d.

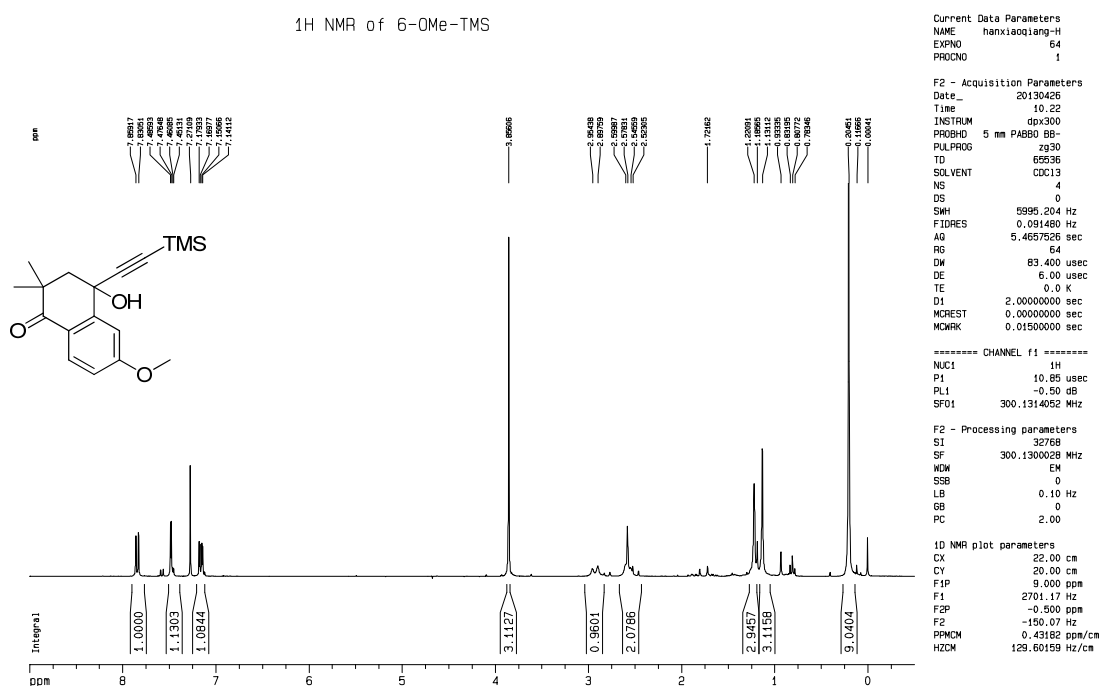
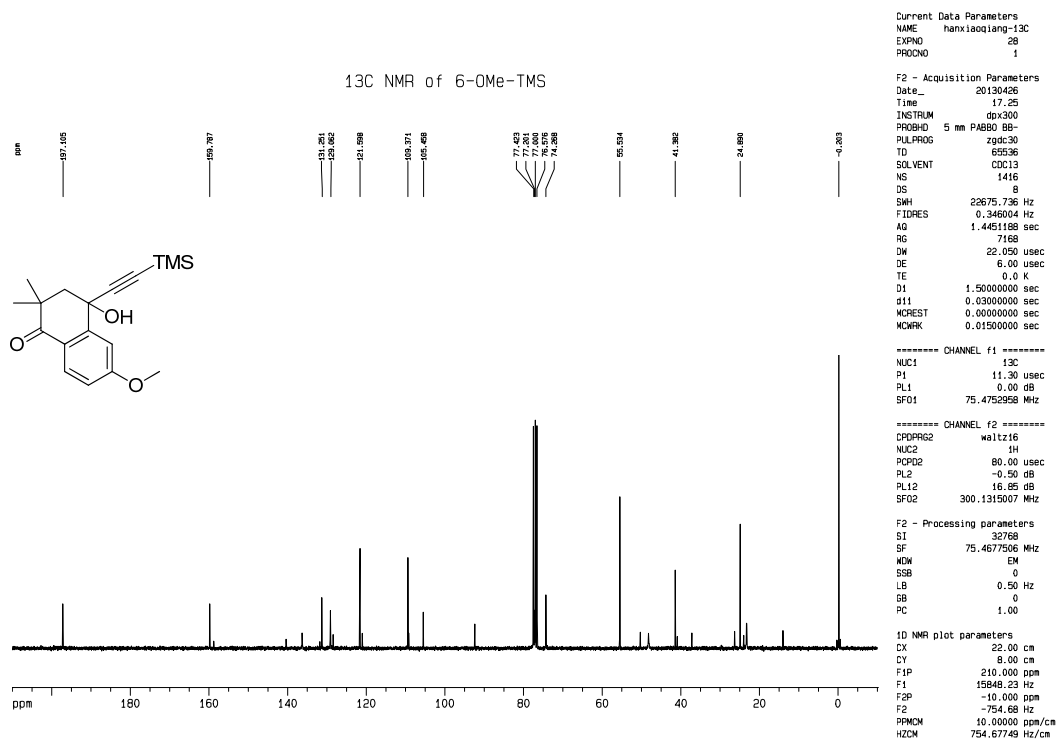
Figure S27. ^1H -NMR of compound 6e.Figure S28. ^{13}C -NMR of compound 6e.

Figure S29. MS of compound 6e (M+Na).

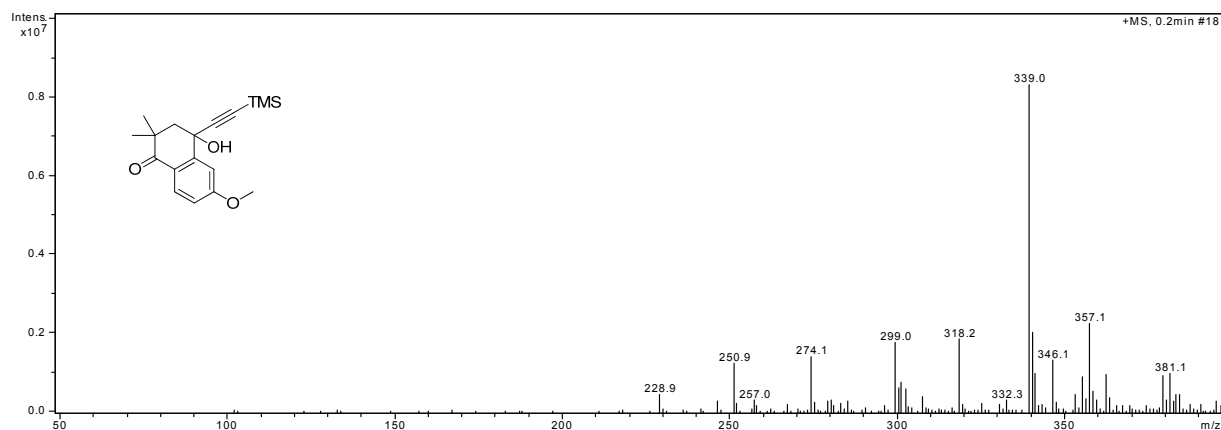
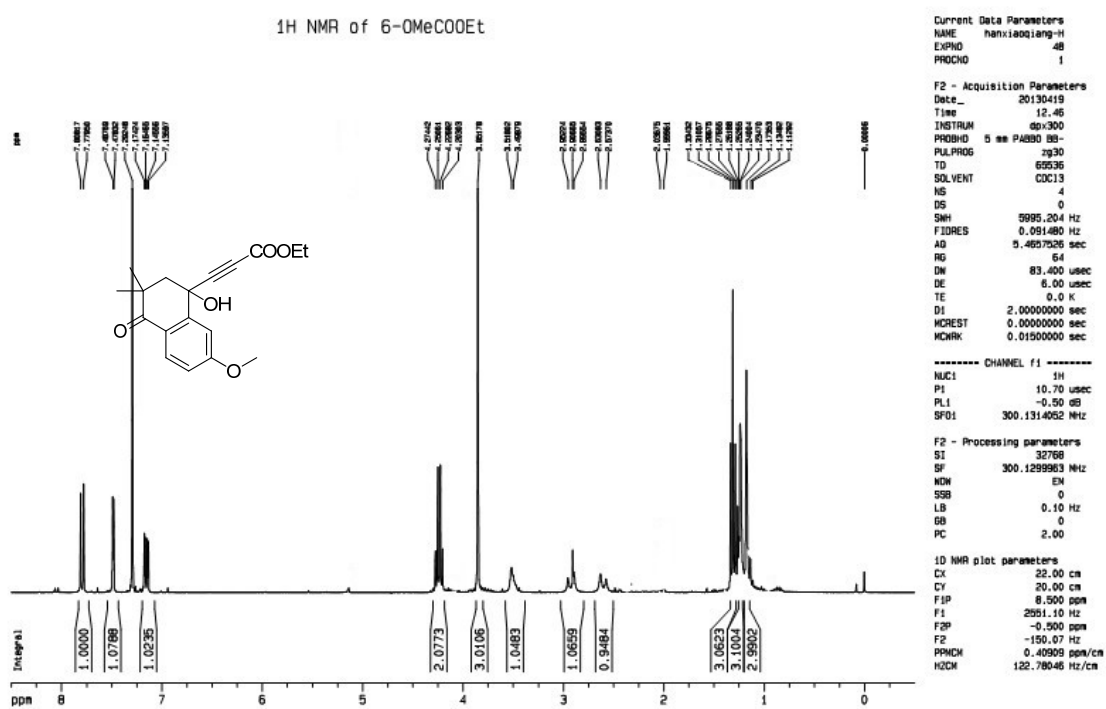
Figure S30. ¹H-NMR of compound 6f.

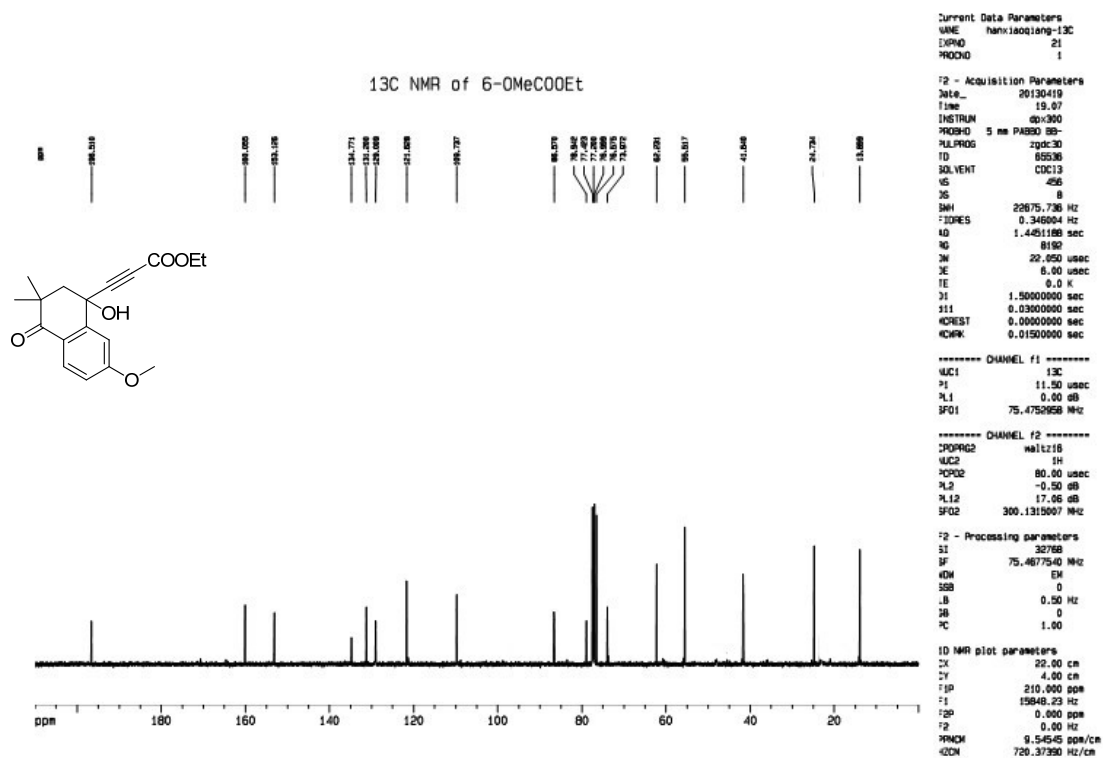
Figure S31. ^{13}C -NMR of compound 6f.

Figure S32. MS of compound 6f (M+Na).

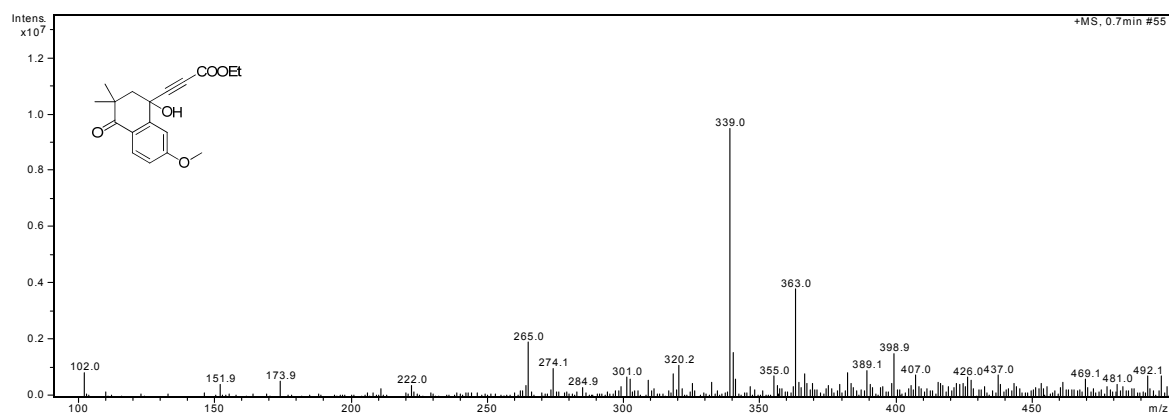


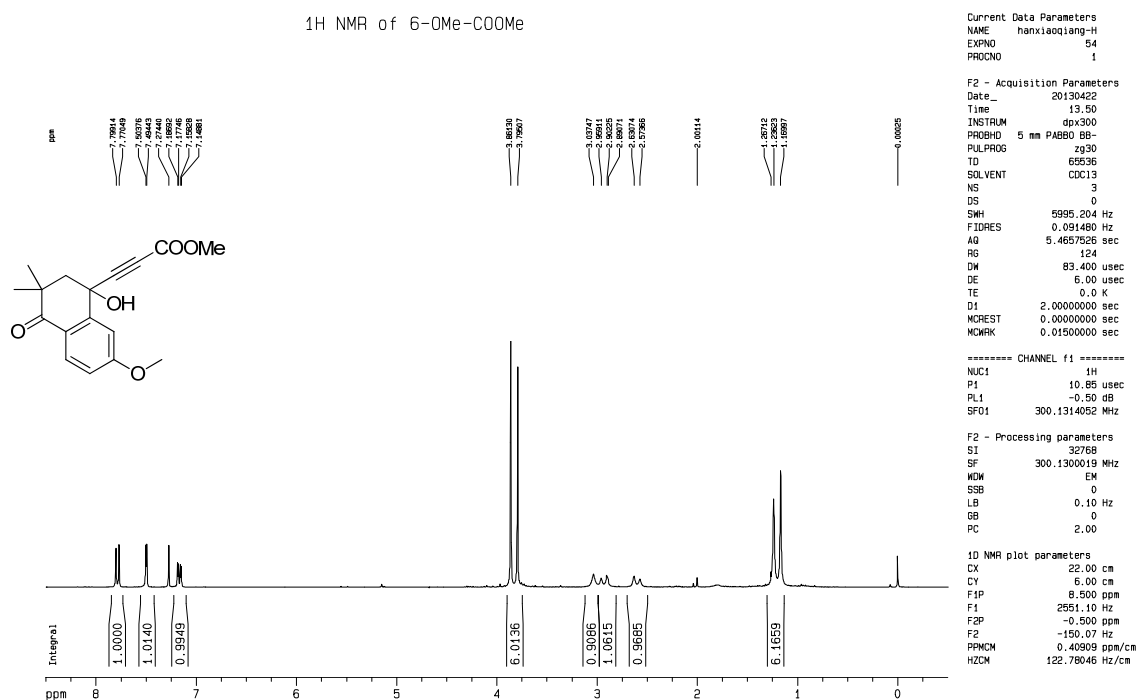
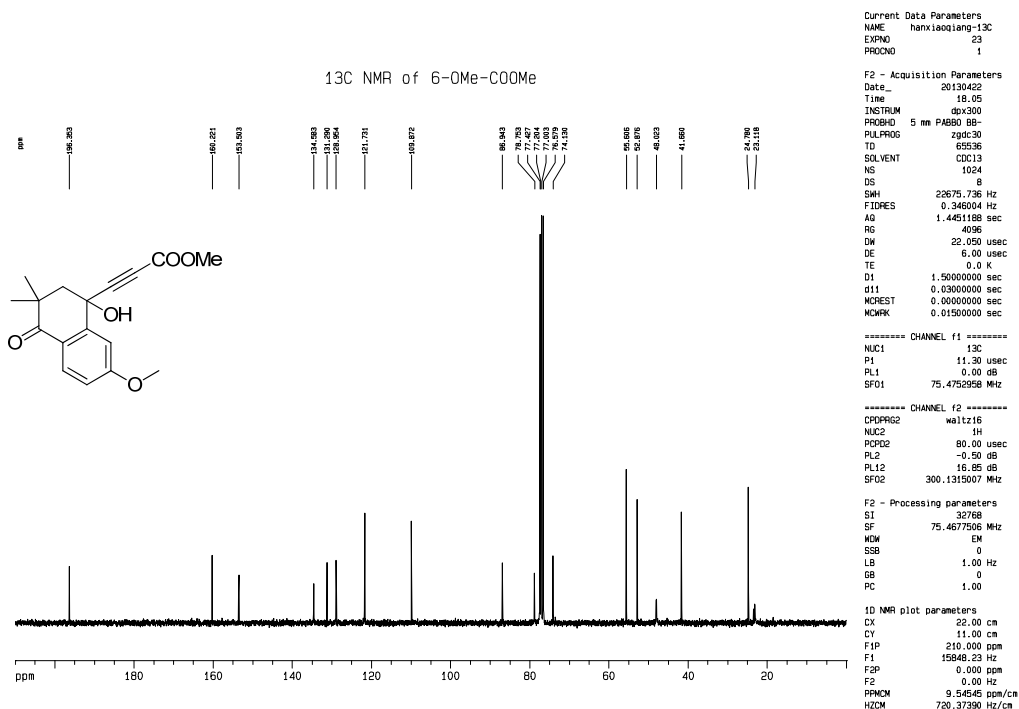
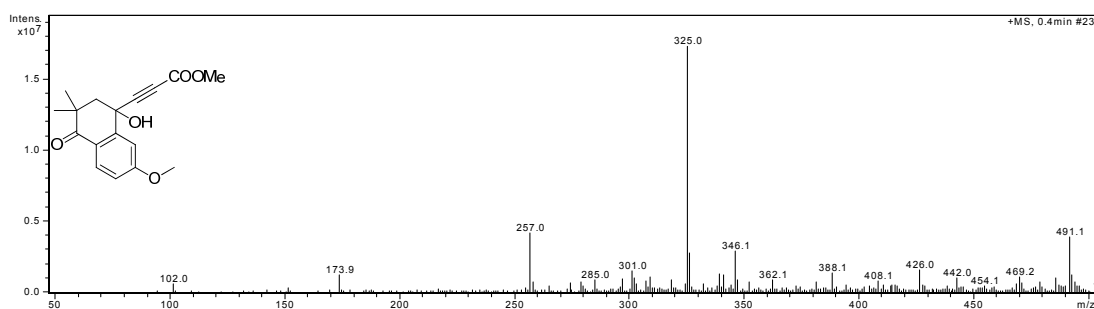
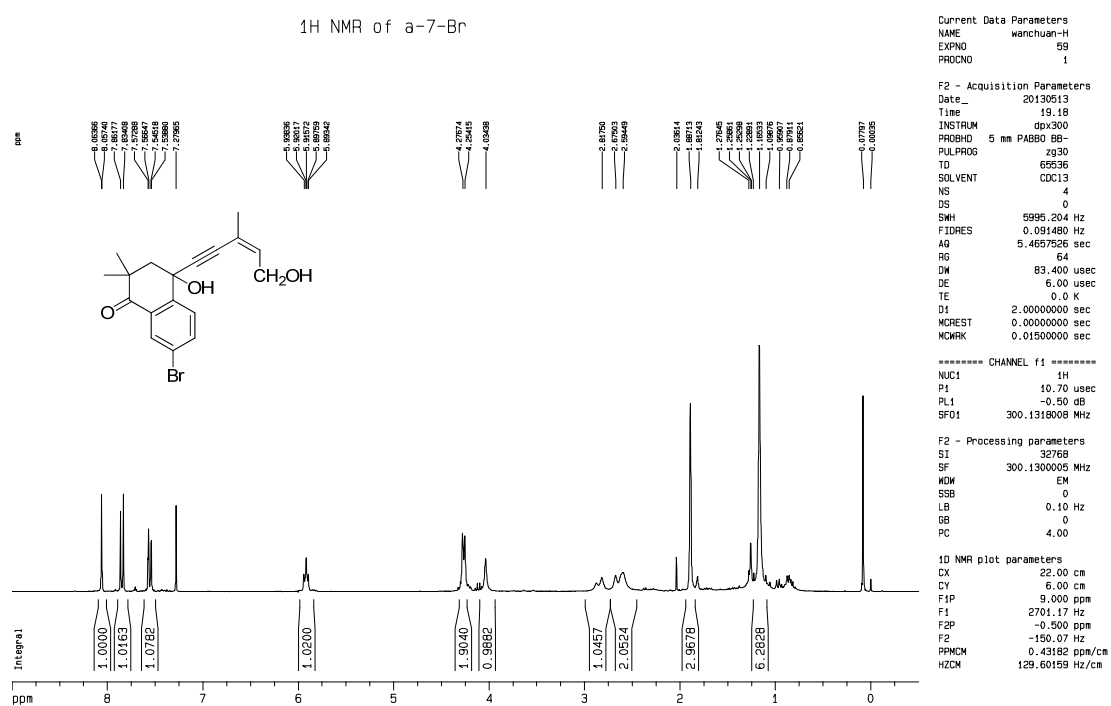
Figure S33. ¹H-NMR of compound 6g.Figure S34. ¹³C-NMR of compound 6g.

Figure S35. MS of compound **6g** (M+Na).Figure S36. ¹H-NMR of compound **6h**.

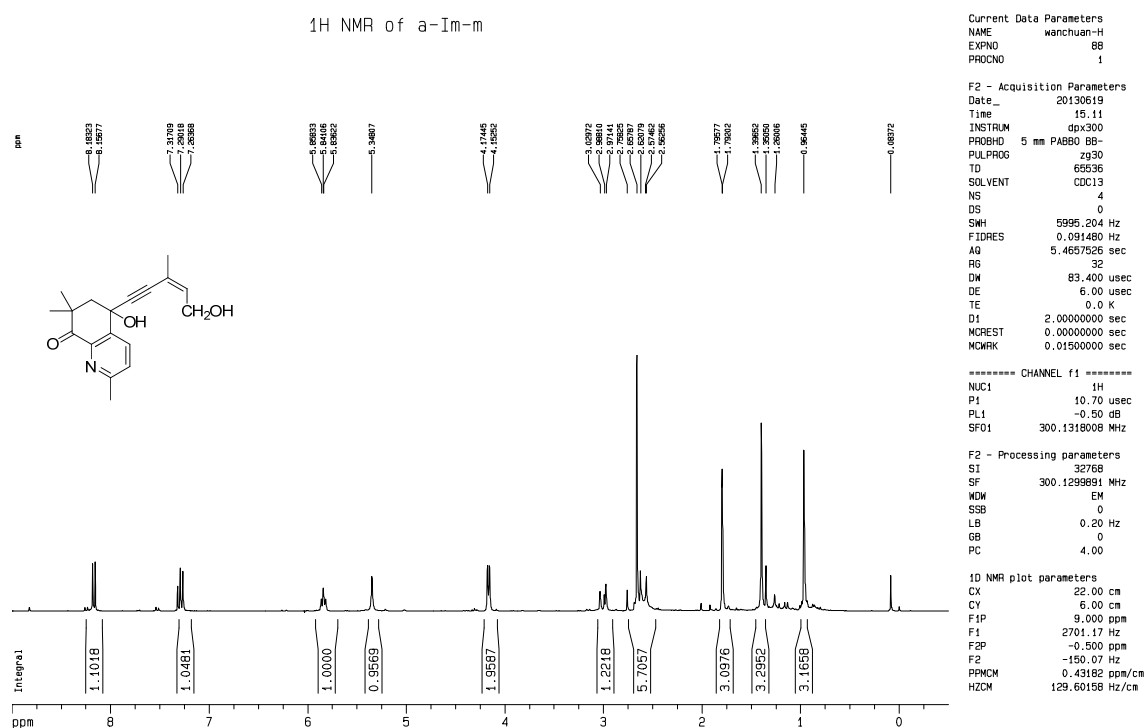
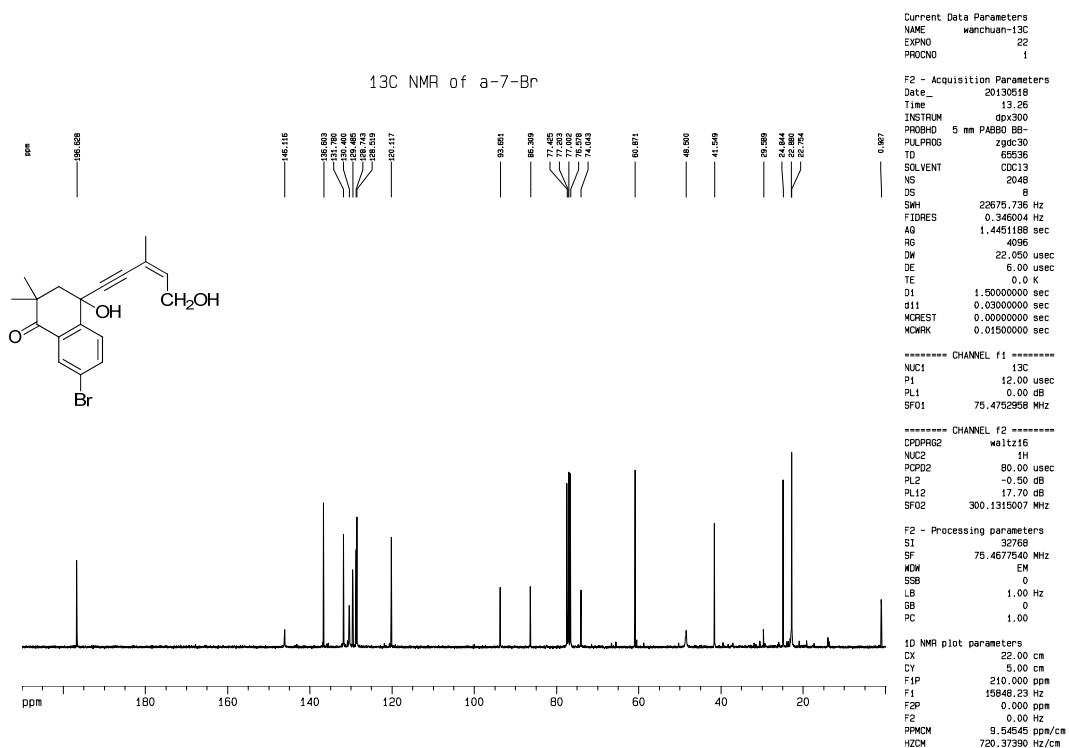


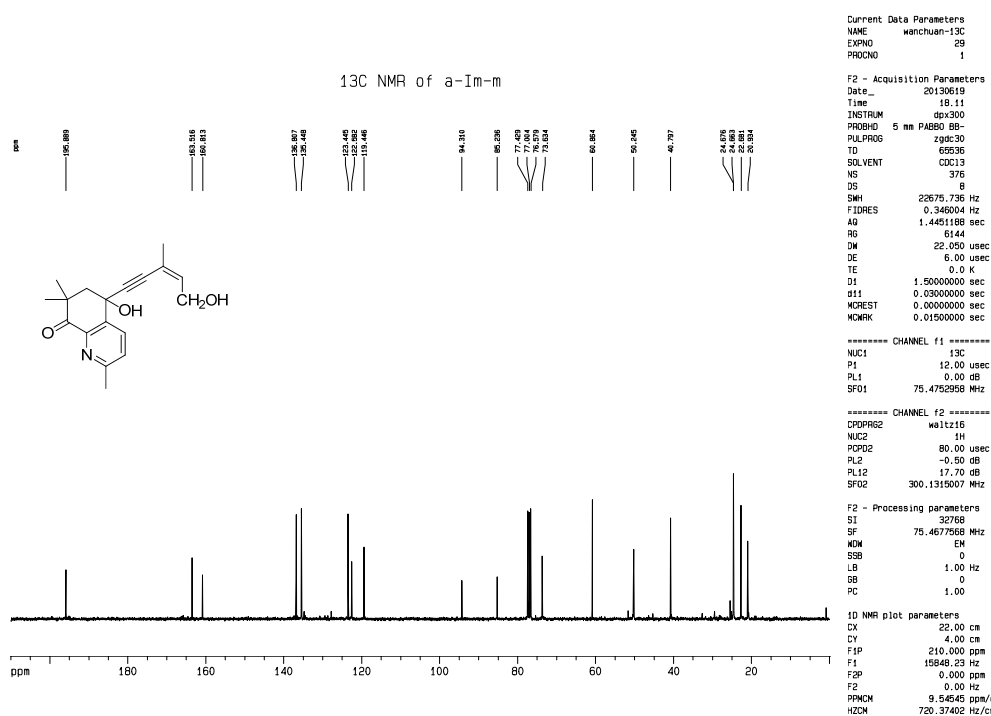
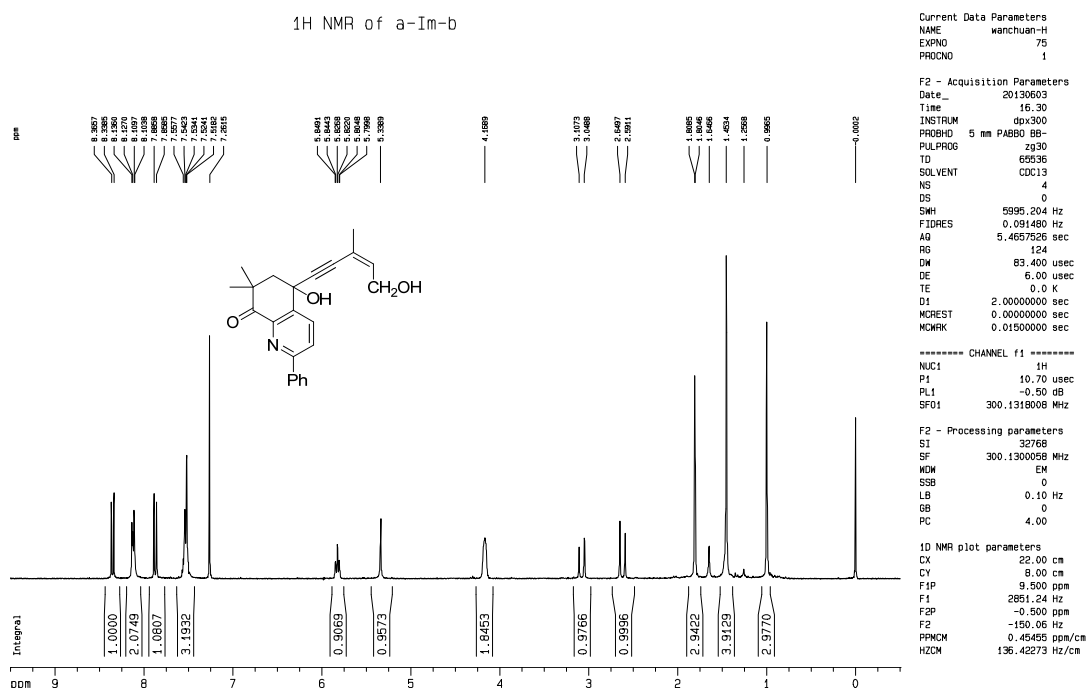
Figure S39. ^{13}C -NMR of compound 6i.Figure S40. ^1H -NMR of compound 6j.

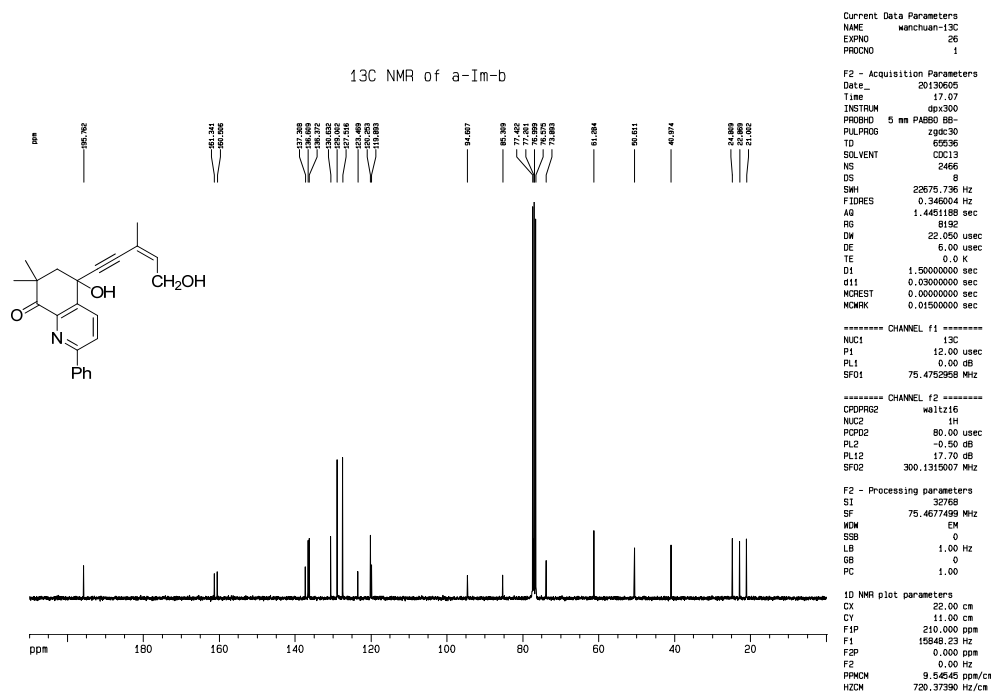
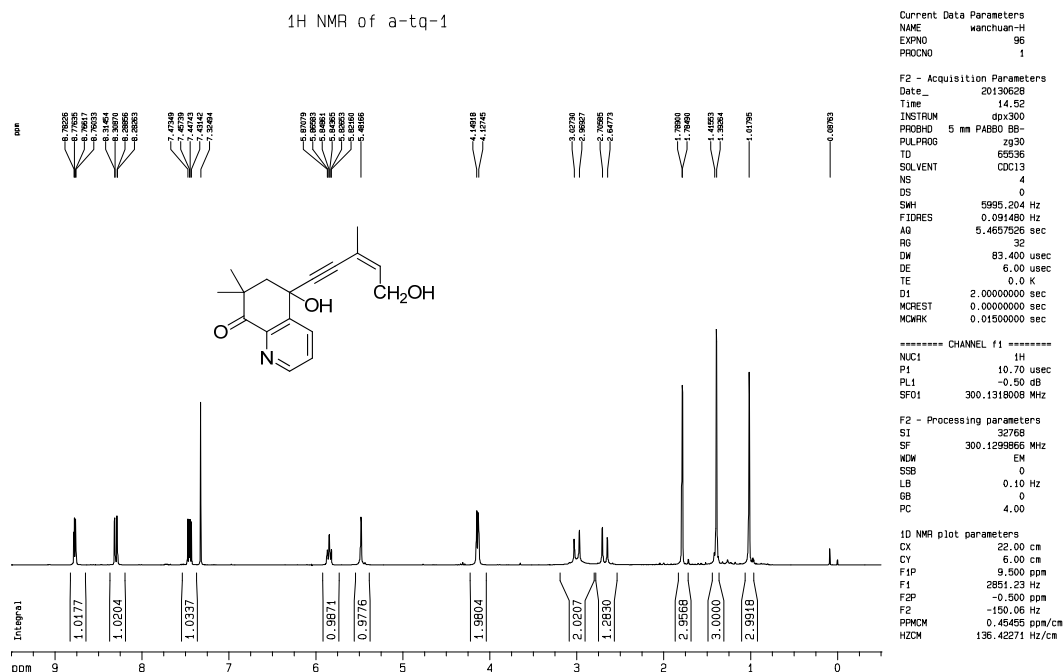
Figure S41. ^{13}C -NMR of compound 6j.Figure S42. ^1H -NMR of compound 6k.

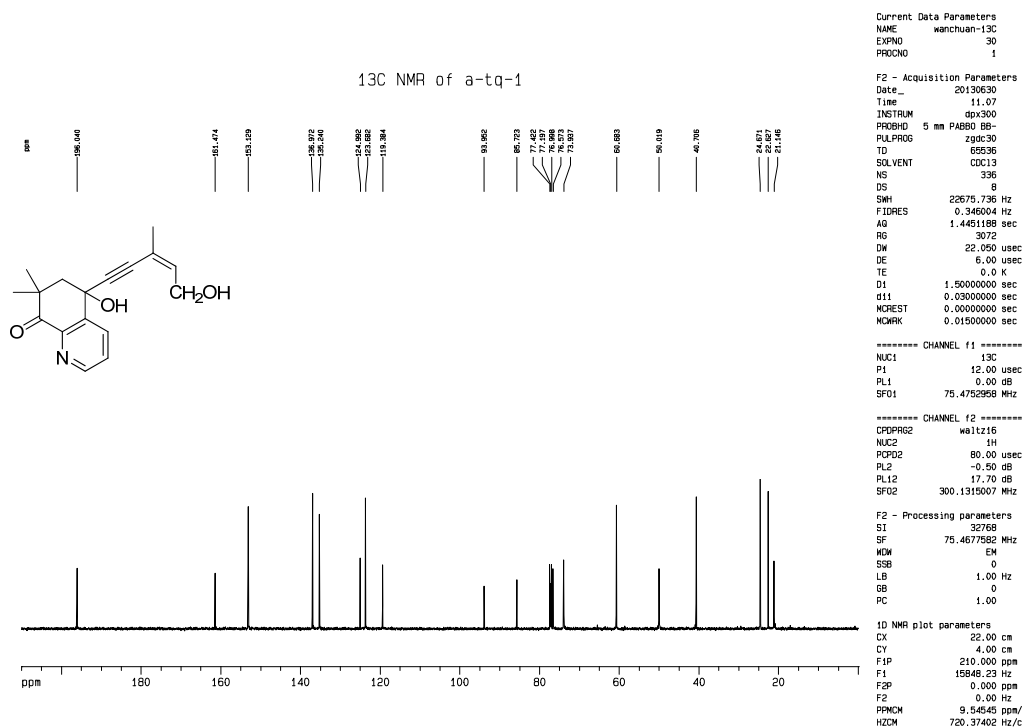
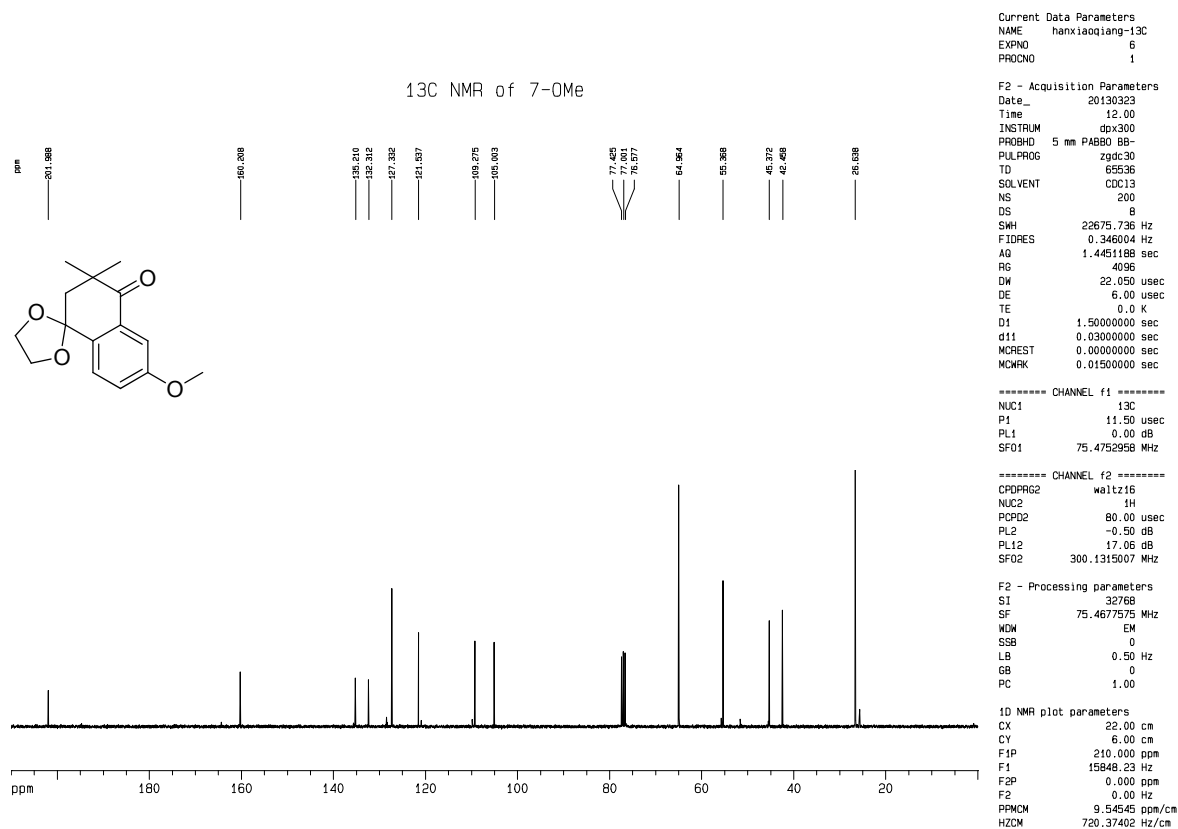
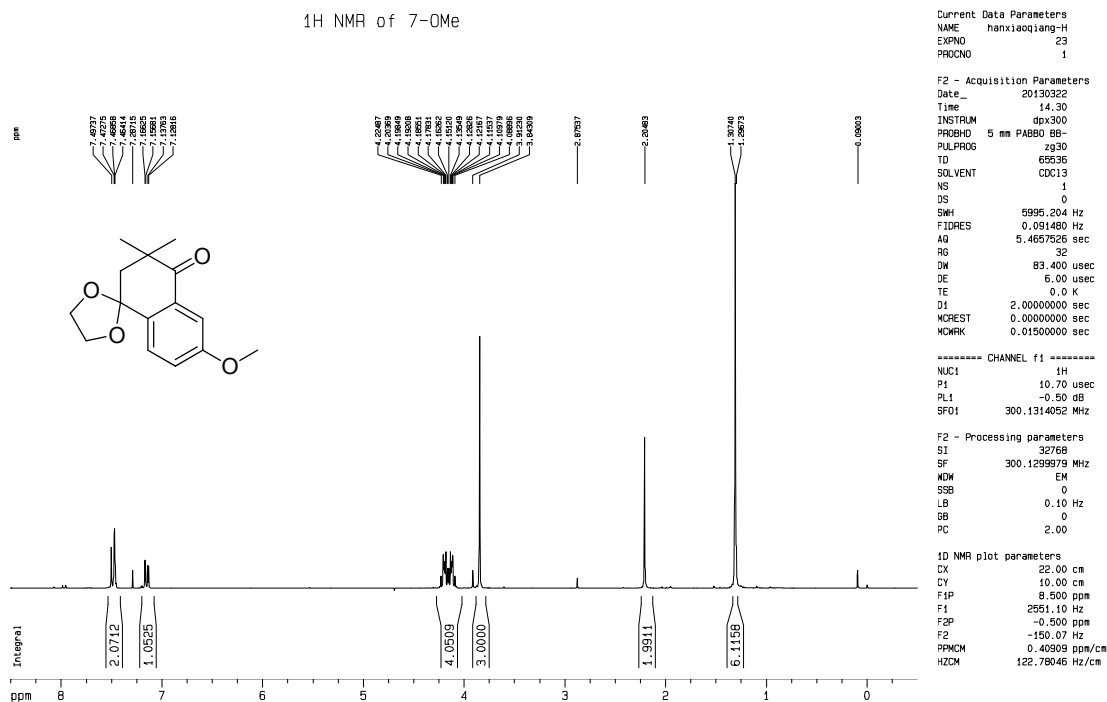
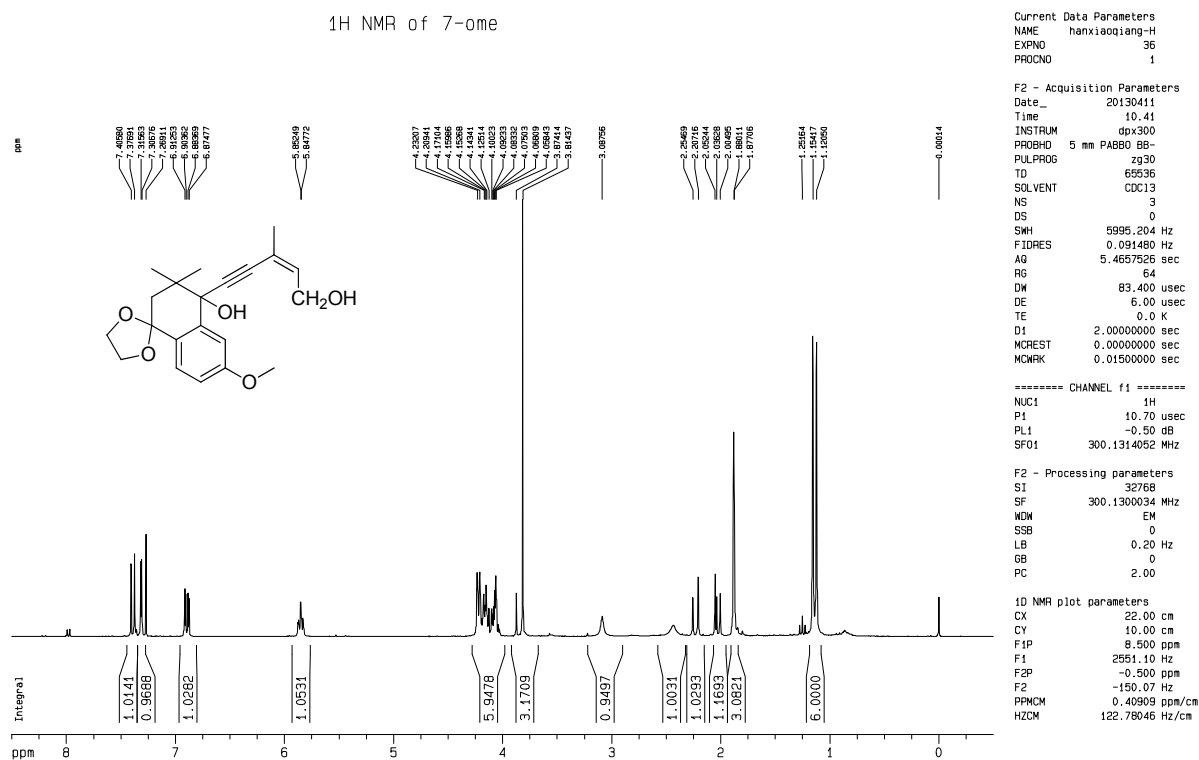
Figure S43. ^{13}C -NMR of compound 6k.Figure S44. ^1H -NMR of compound 7.

Figure S45. ^{13}C -NMR of compound 7.Figure S46. ^1H -NMR of compound 8.

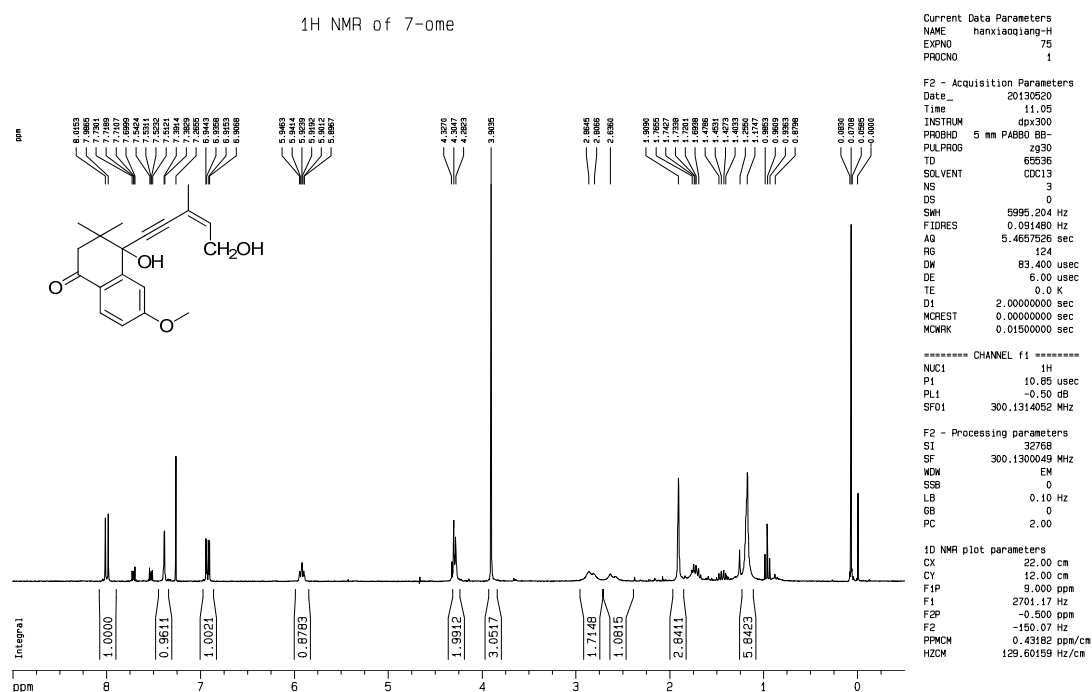
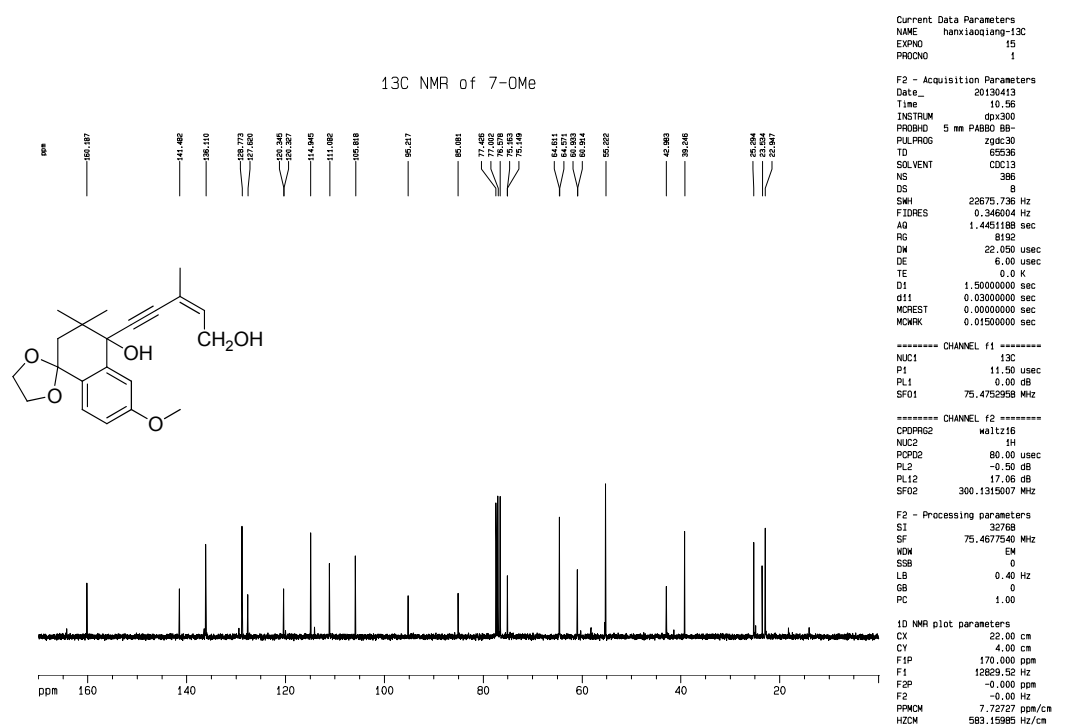


Figure S49. ^{13}C -NMR of compound 5c.