

## Supporting Information

### EFFECT OF *meta*-SUBSTITUENTS ON THE RADICAL SCAVENGING ACTIVITY OF 6-CHROMANOL DERIVATIVES

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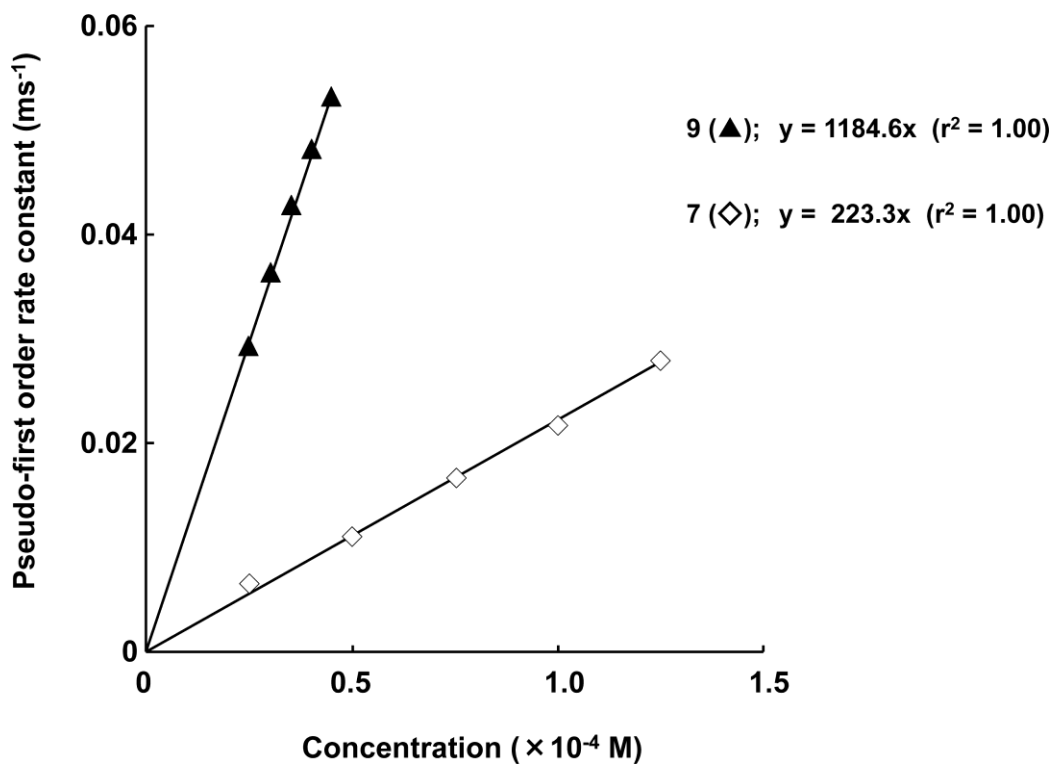


Figure S1 Plot of pseudo-first order rate constant versus concentration of 8-substituted 6-chromanols; 7 (◇), 9 (▲)

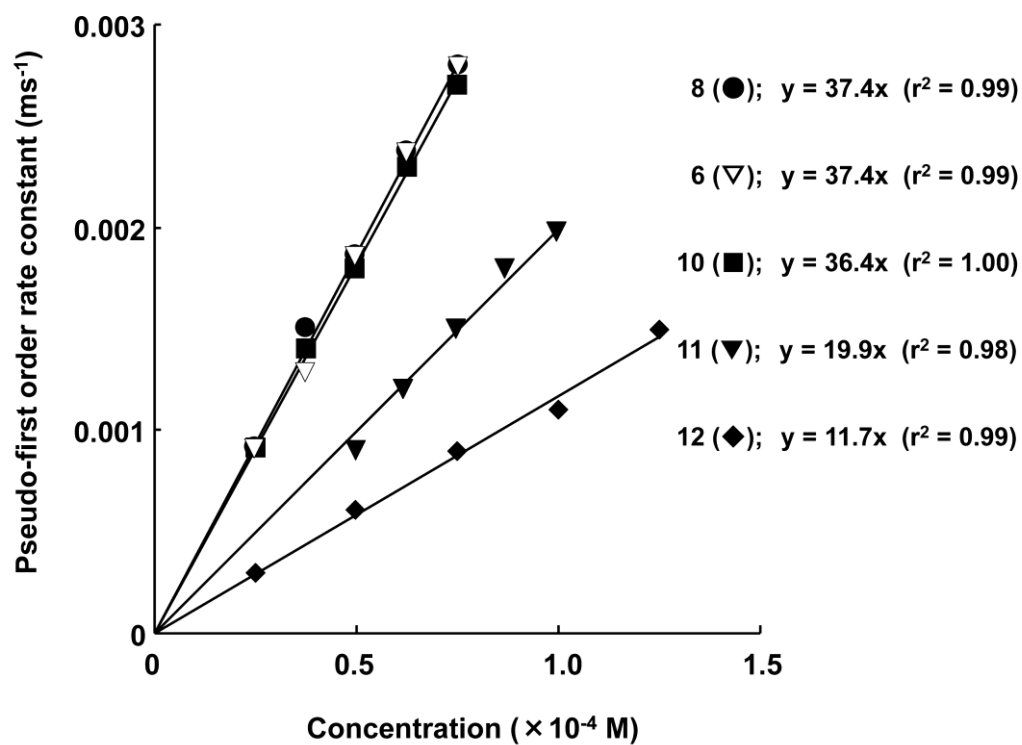
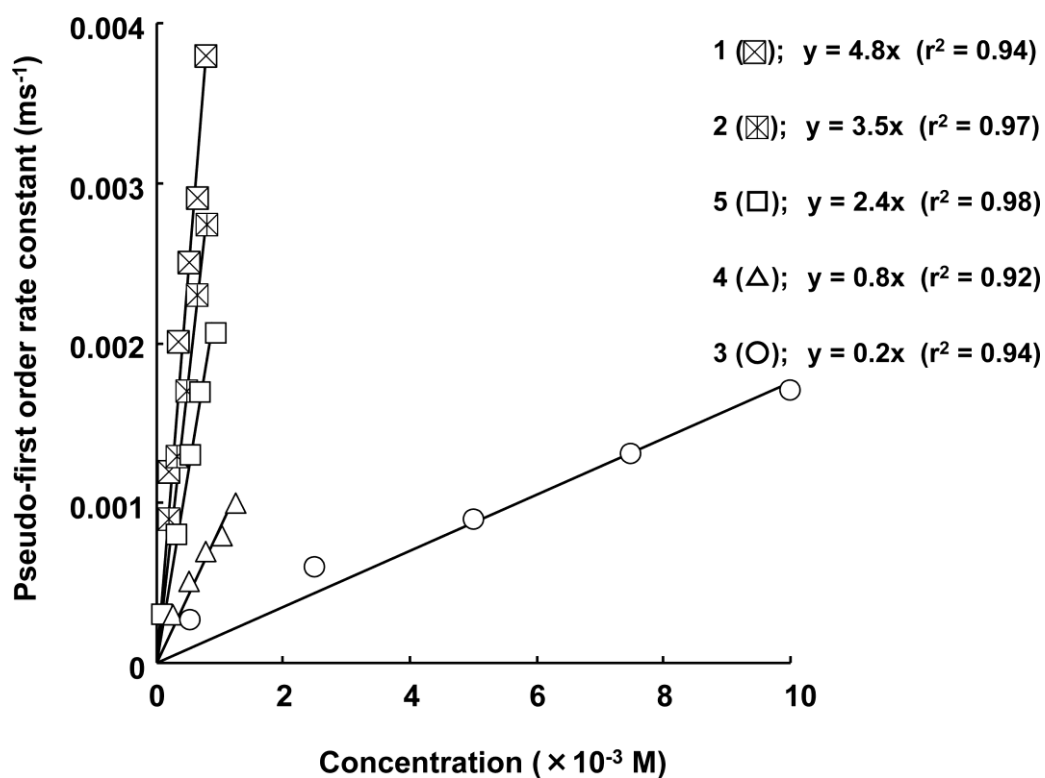
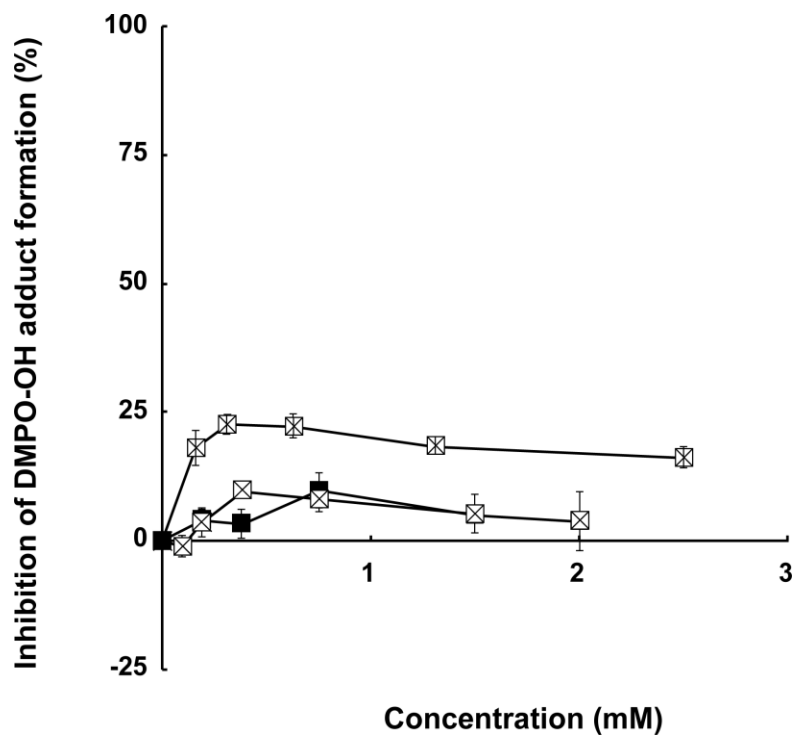


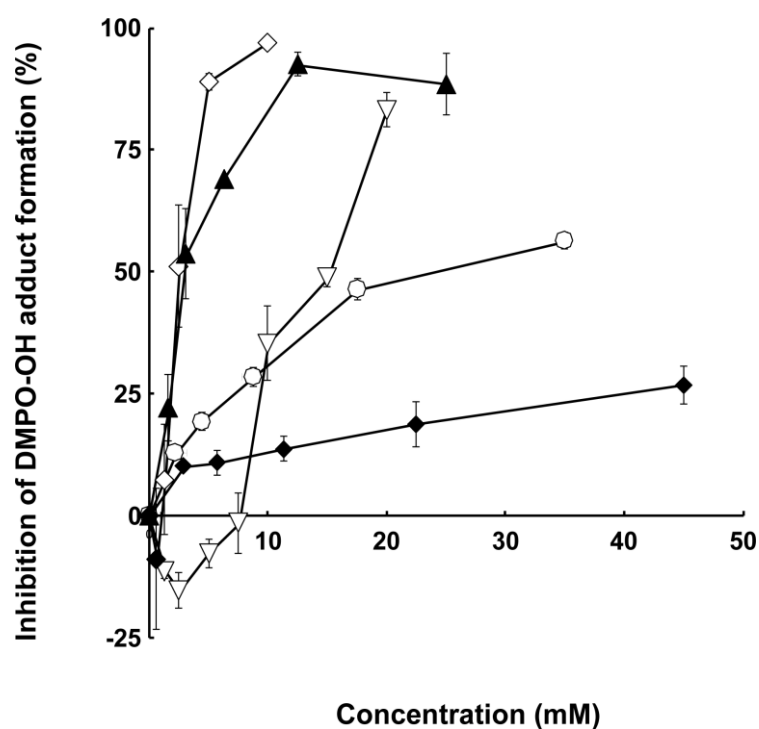
Figure S2 Plot of pseudo-first order rate constant versus concentration of 8-substituted 6-chromanols; 6 (▽), 8 (●), 10 (■), 11 (▼), 12 (◆)



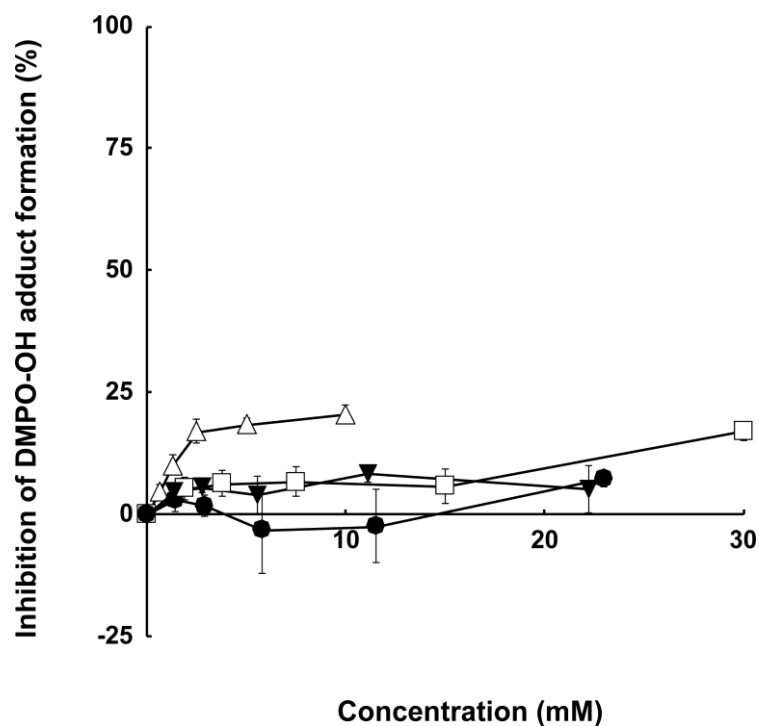
**Figure S3** Plot of pseudo-first order rate constant versus concentration of 8-substituted 6-chromanols; **1** (⊠), **2** (⊠), **3** (○), **4** (△), **5** (□)



**Figure S4** Inhibition (%) of DMPO-OH adduct formation by 8-substituted-6-chromanols; **1** (⊠), **2** (⊠), **10** (■)  
Data were expressed as means ± standard deviation (n= 3).

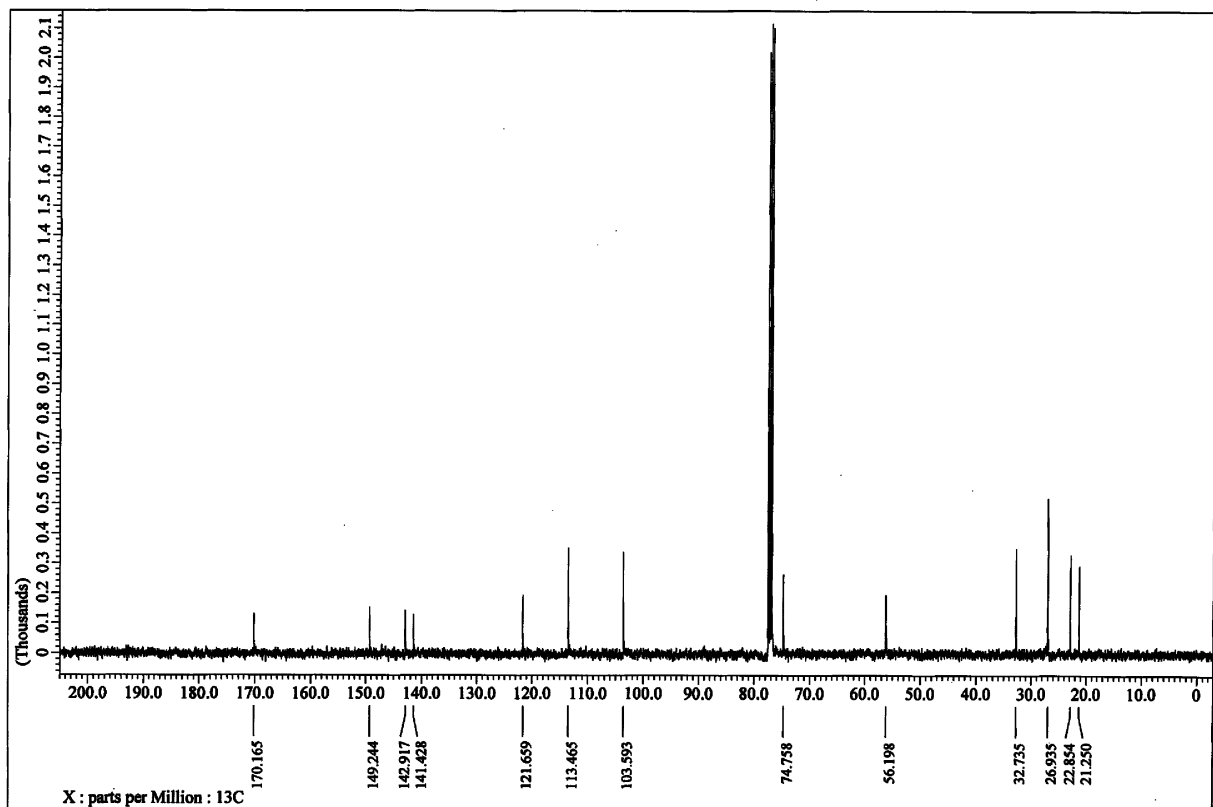
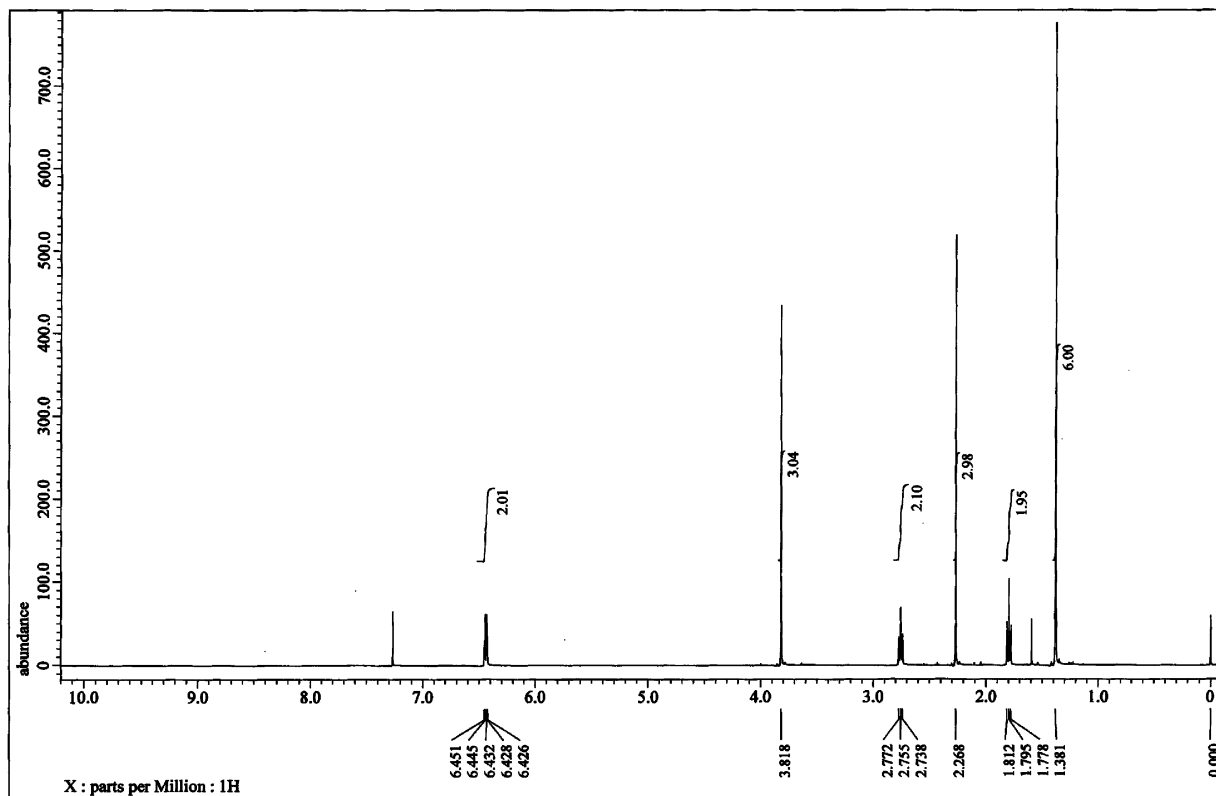
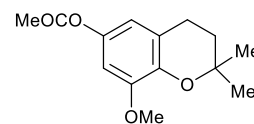


**Figure S5** Inhibition (%) of DMPO-OH adduct formation by 8-substituted-6-chromanols; **3** (○), **6** (▽), **7** (◇), **9** (▲), **12** (◆)  
Data were expressed as means  $\pm$  standard deviation (n= 3).

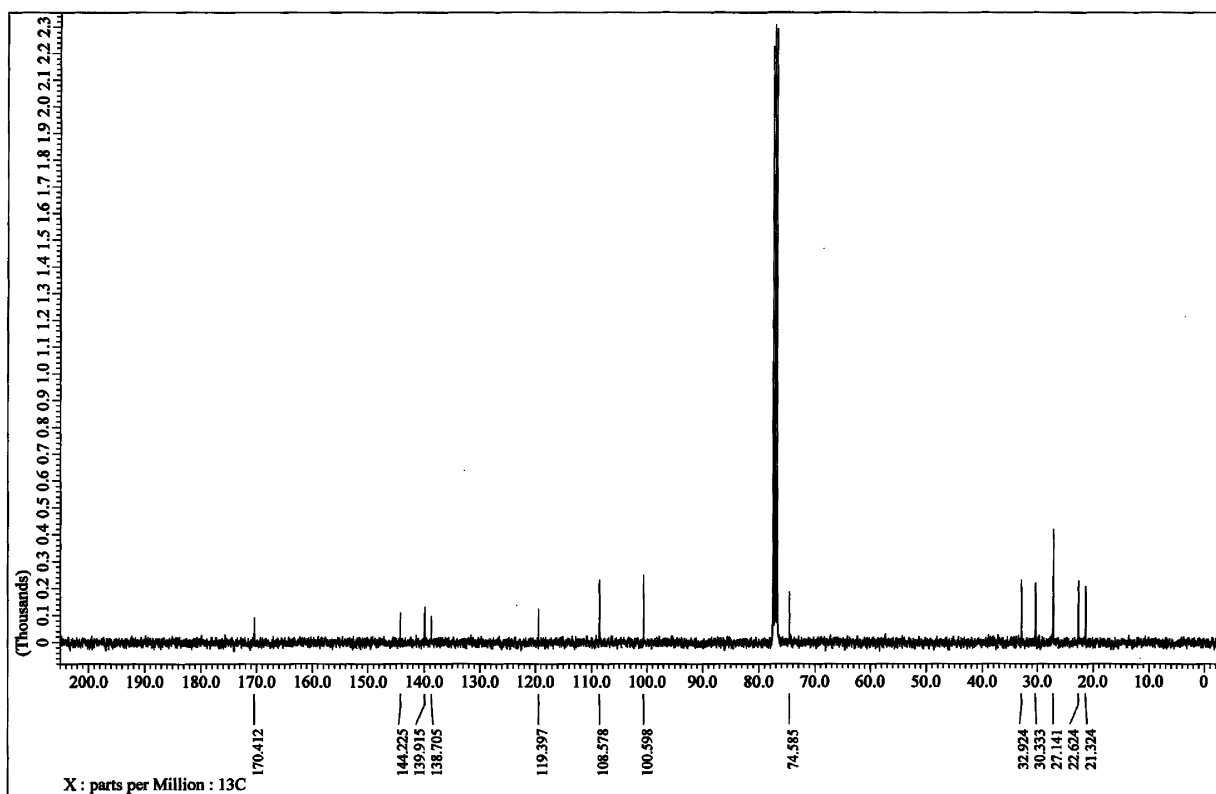
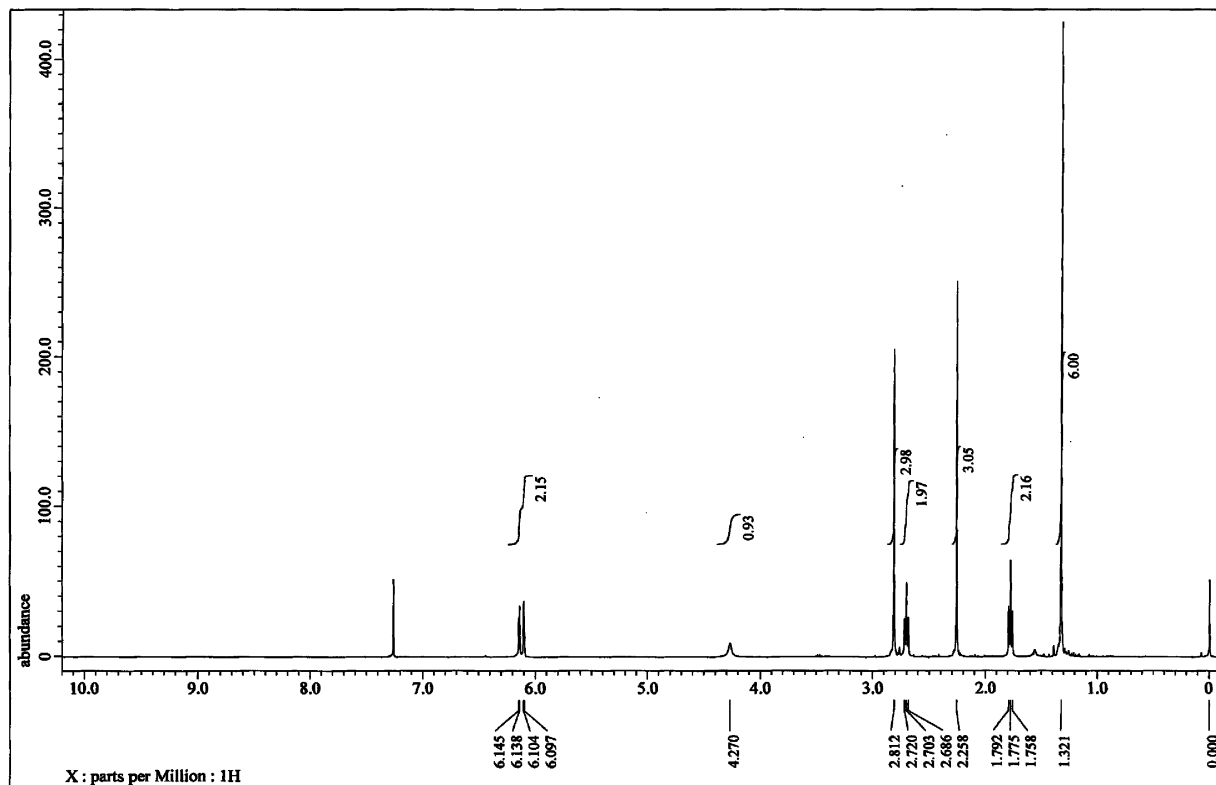
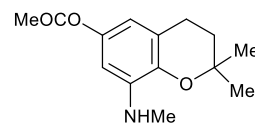


**Figure S6** Inhibition (%) of DMPO-OH adduct formation by 8-substituted-6-chromanols; **4** (△), **5** (□), **8** (●), **11** (▼)  
Data were expressed as means  $\pm$  standard deviation (n= 3).

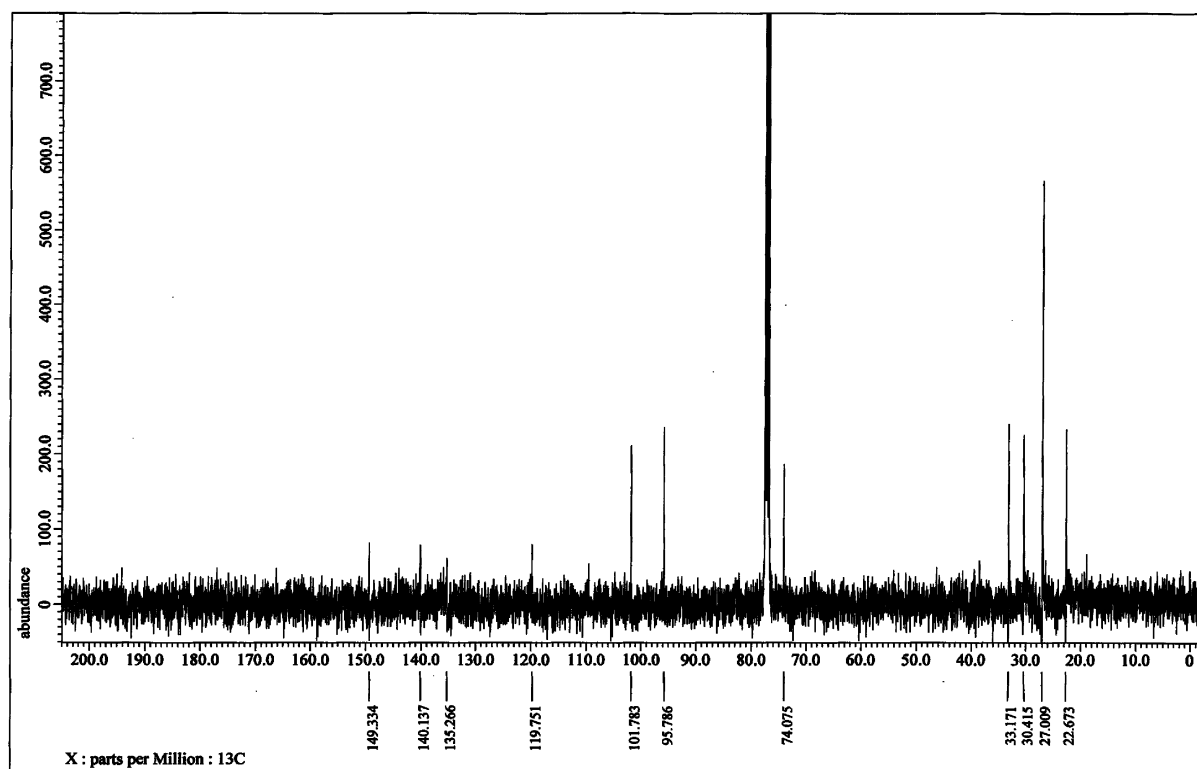
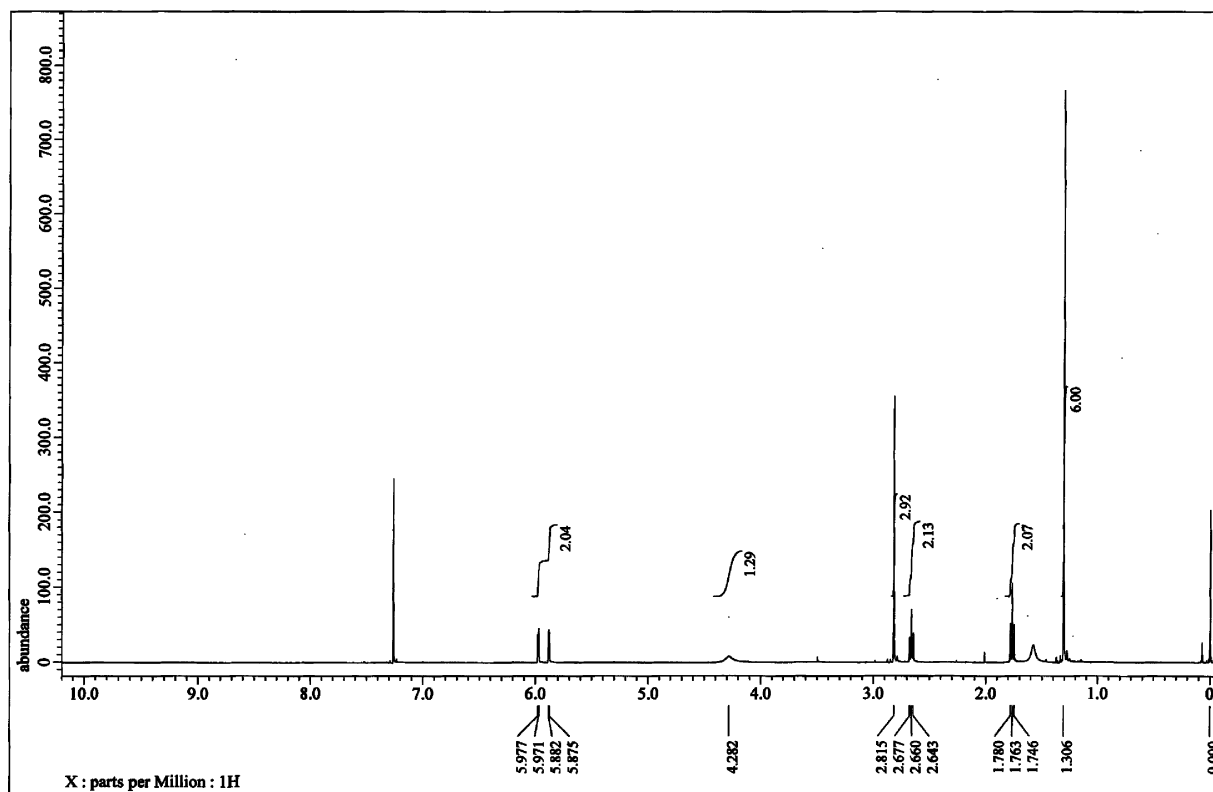
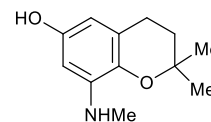
$^1\text{H}$  and  $^{13}\text{C}$  spectra of 6-acetoxy-8-methoxy-2,2-dimethylchroman (AcO-5) in  $\text{CDCl}_3$



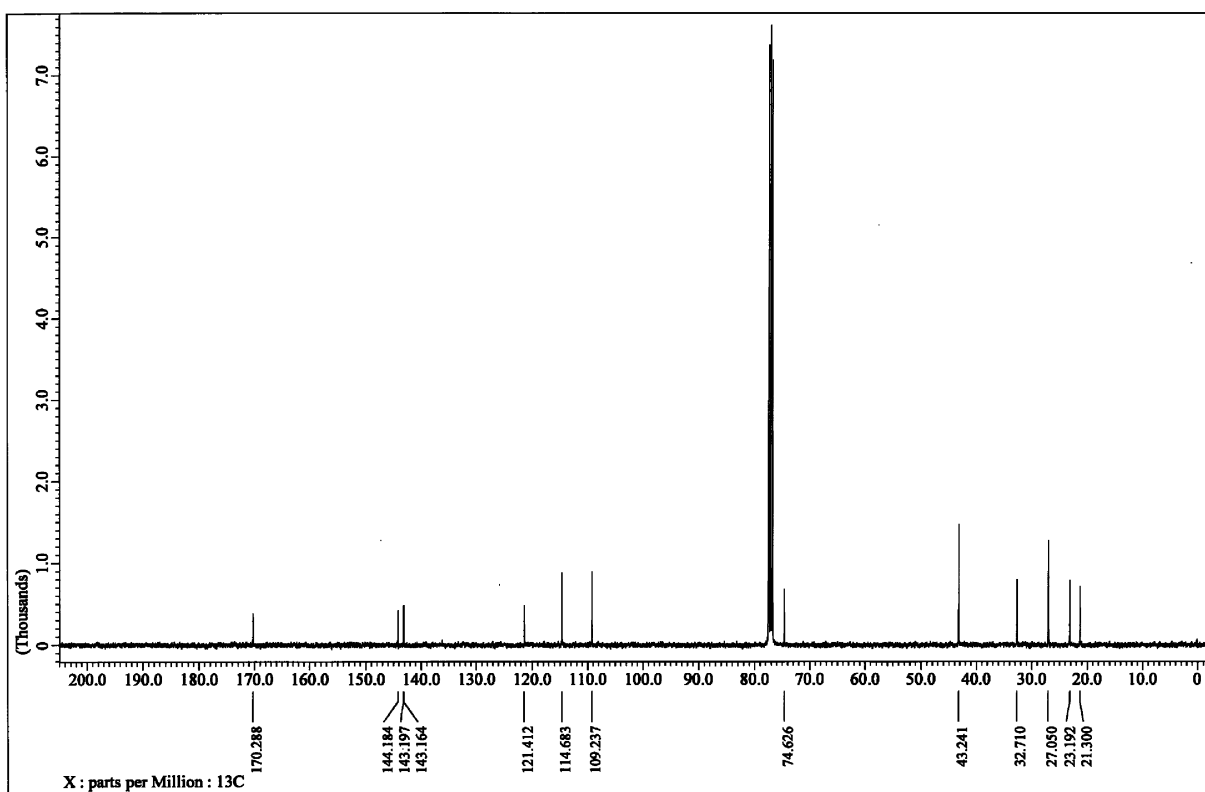
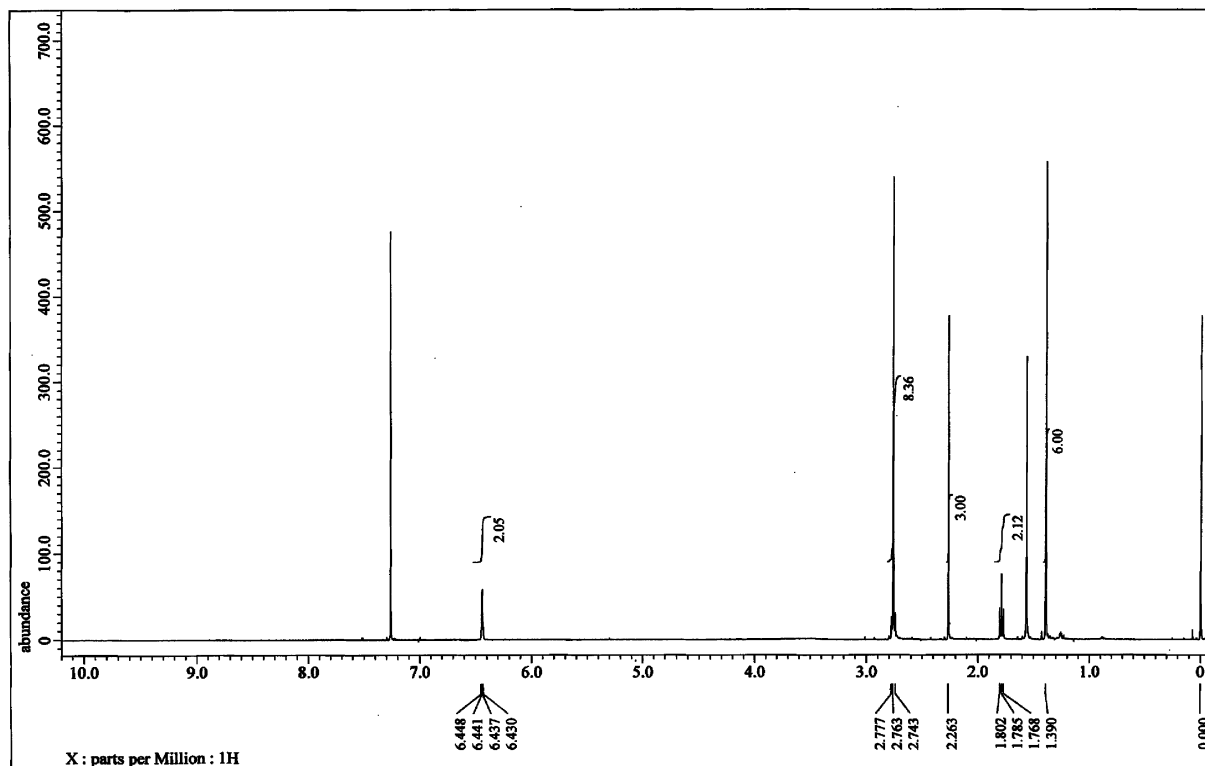
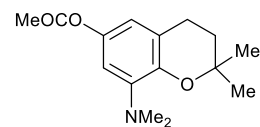
$^1\text{H}$  and  $^{13}\text{C}$  spectra of 6-acetoxy-8-(*N*-methylamino)-2,2-dimethylchroman (**AcO-7**) in  $\text{CDCl}_3$



$^1\text{H}$  and  $^{13}\text{C}$  spectra of 2,2-dimethyl-8-(*N*-methylamino)chroman-6-ol (7) in  $\text{CDCl}_3$

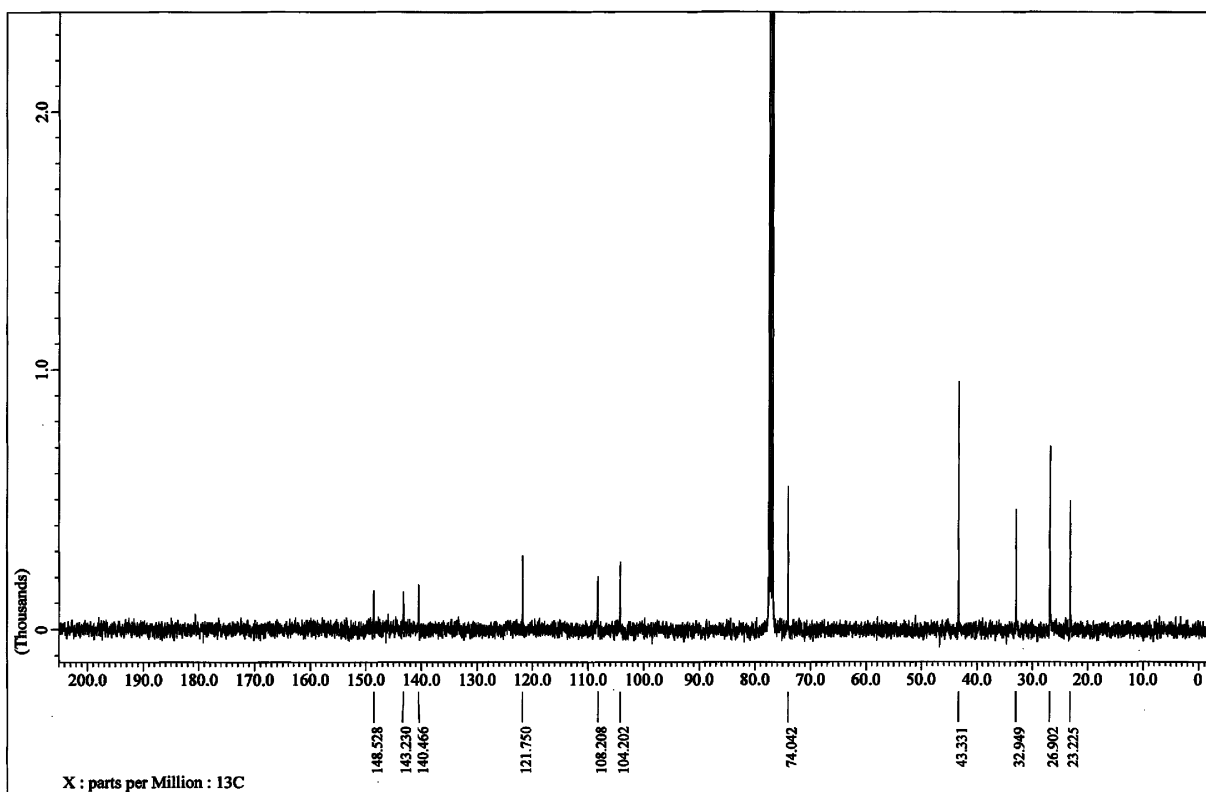
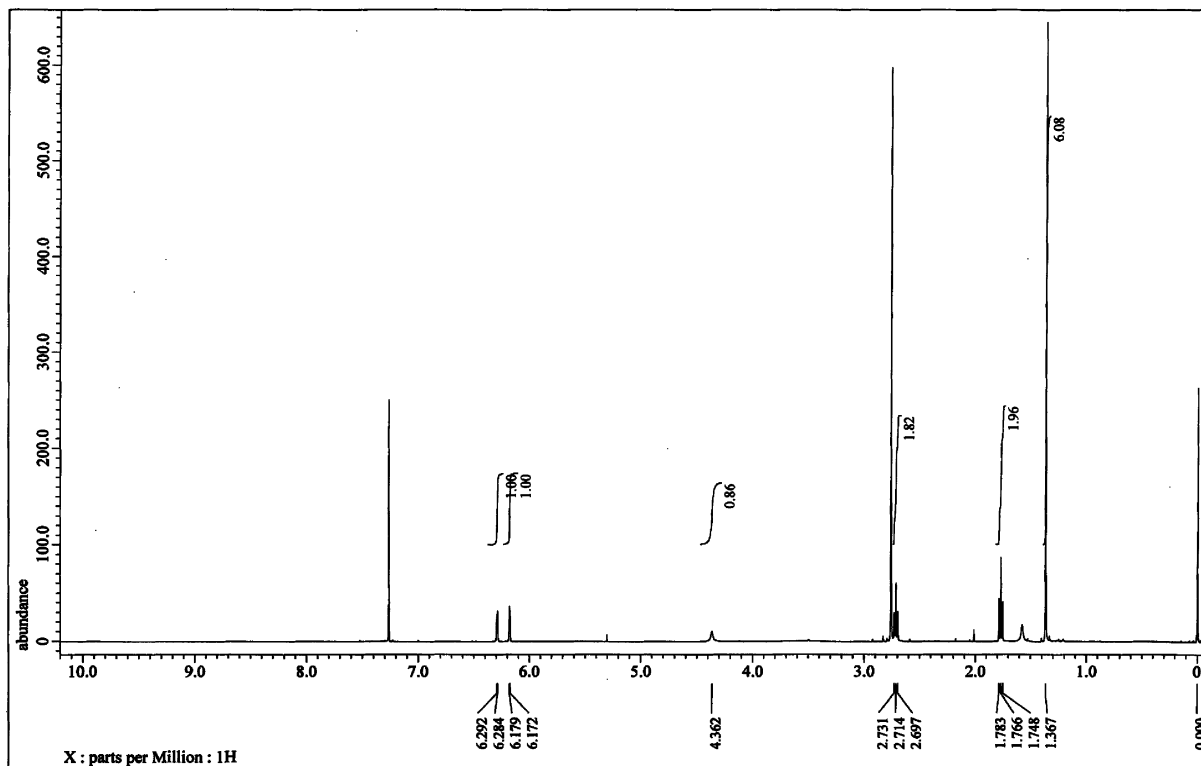
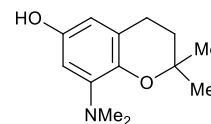


$^1\text{H}$  and  $^{13}\text{C}$  spectra of 6-acetoxy-2,2-dimethyl-8-(*N,N*-dimethylamino)chroman (AcO-8) in  $\text{CDCl}_3$

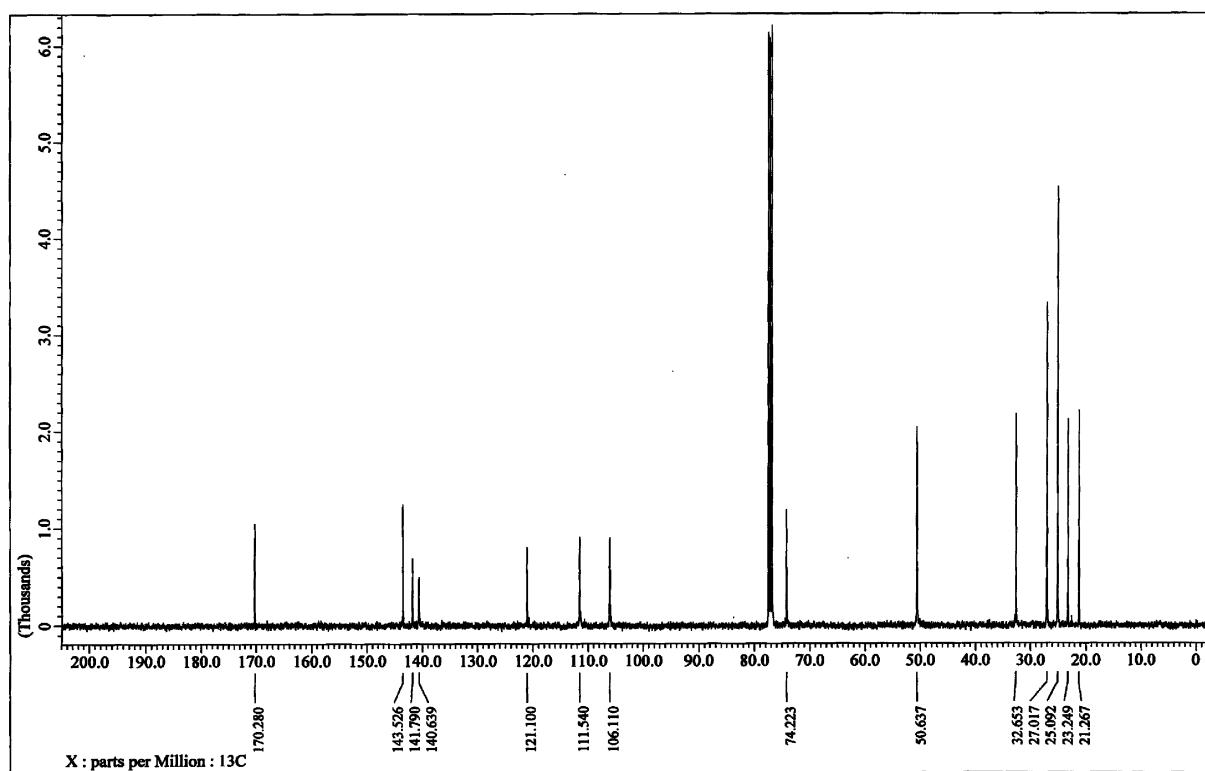
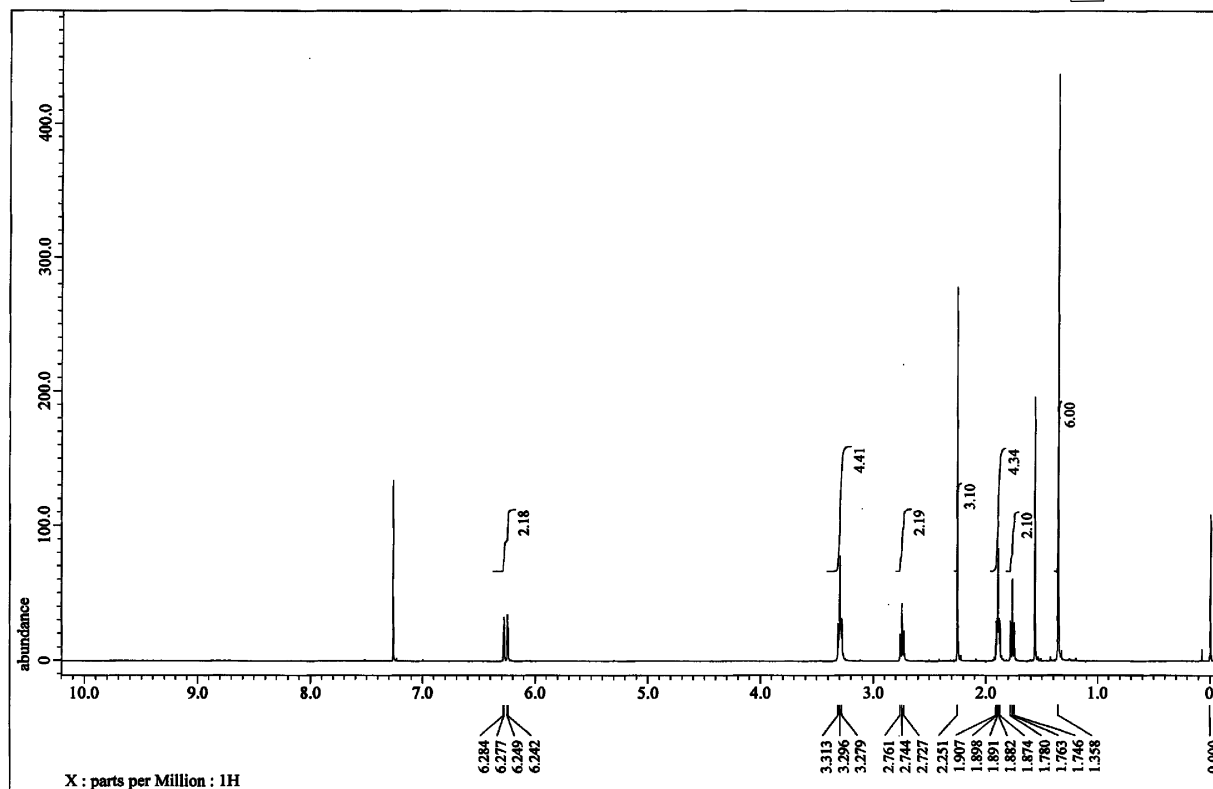
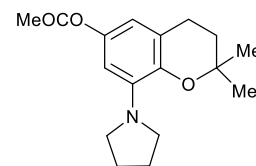




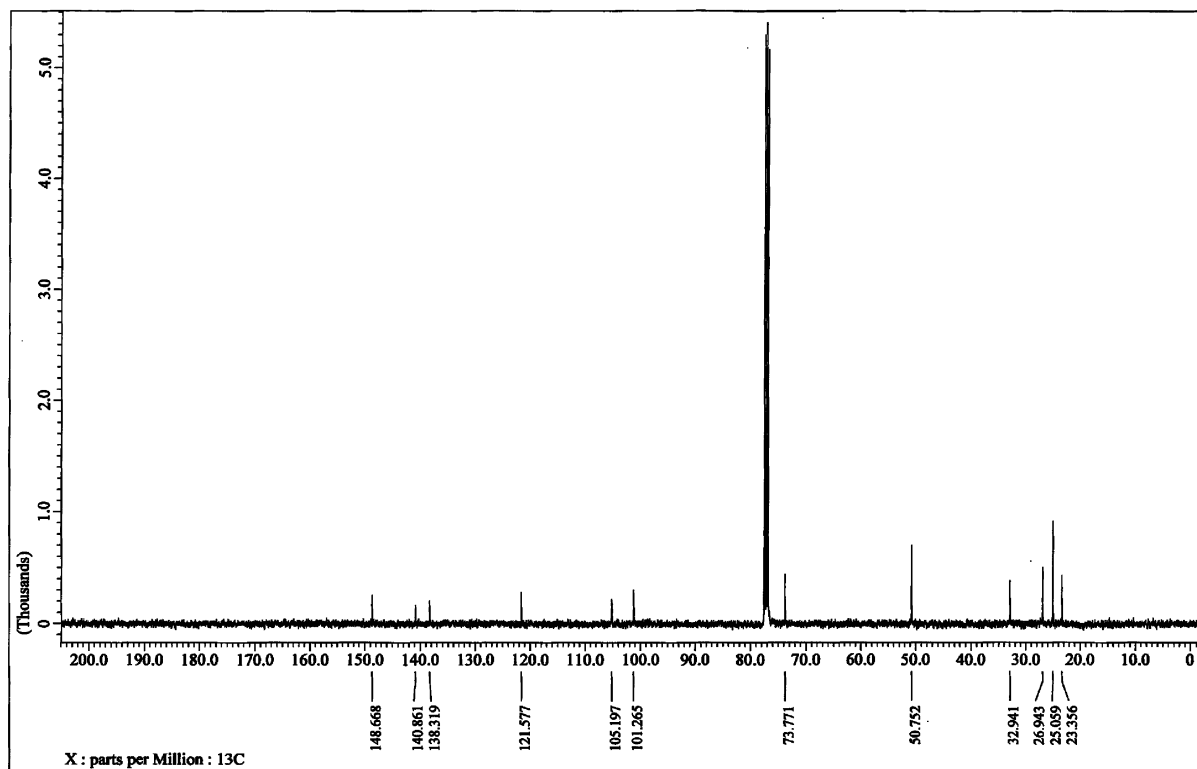
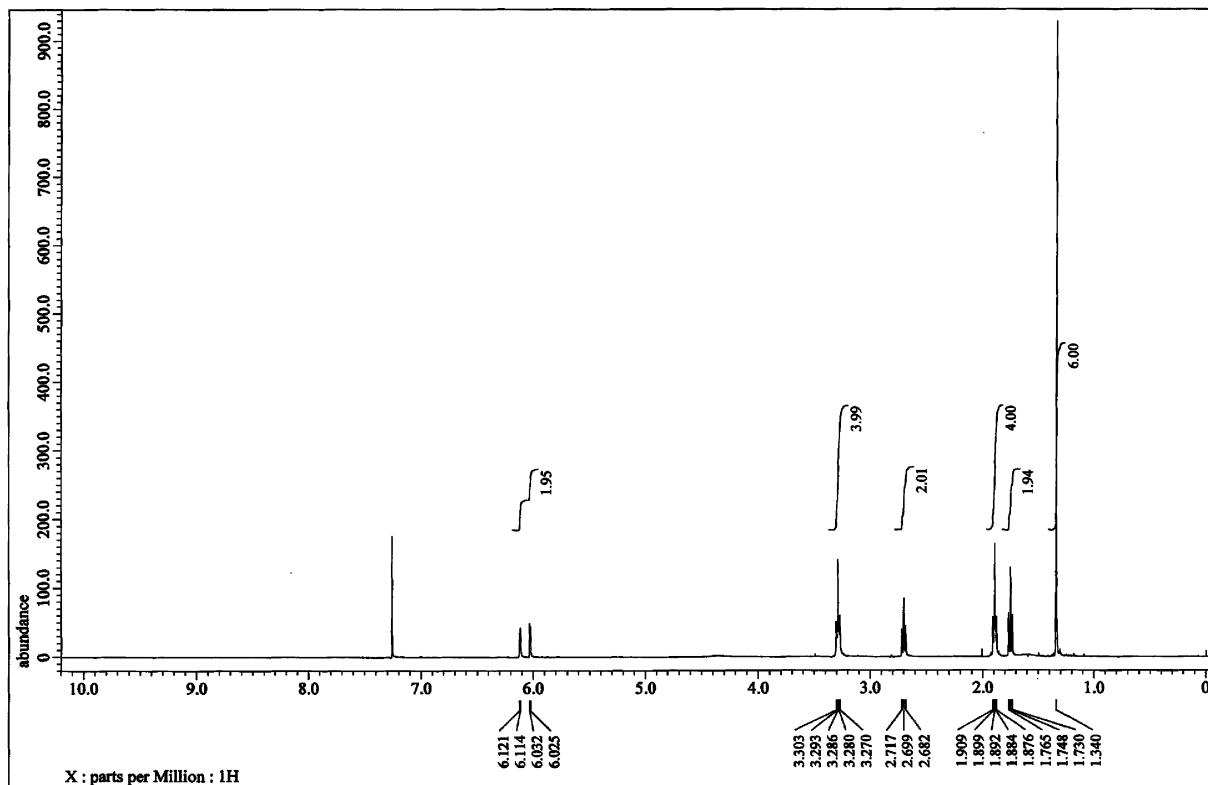
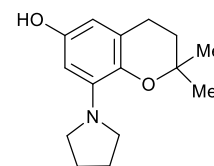
$^1\text{H}$  and  $^{13}\text{C}$  spectra of **8-(*N,N*-dimethylamino)-2,2-dimethylchroman-6-ol (8)** in  $\text{CDCl}_3$



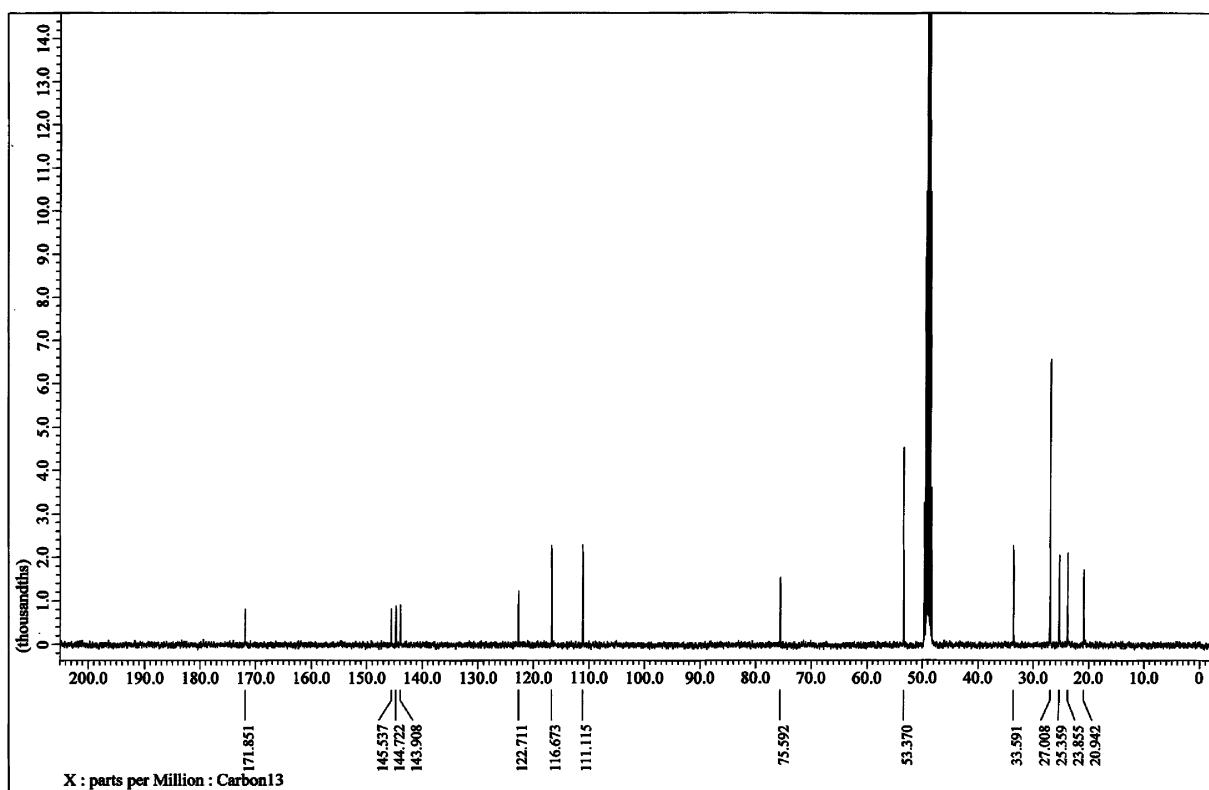
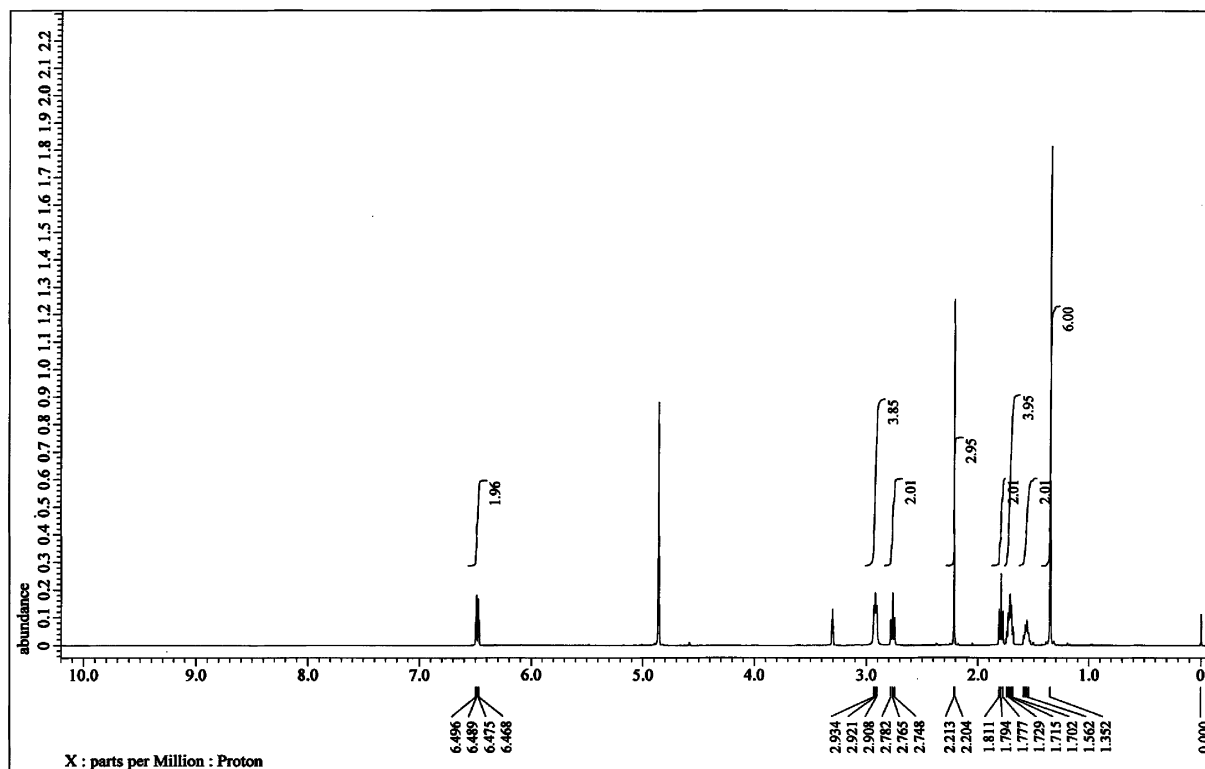
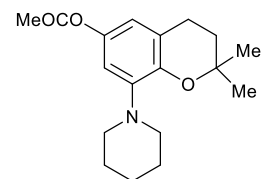
<sup>1</sup>H and <sup>13</sup>C spectra of 6-acetoxy-2,2-dimethyl-8-(pyrrolidin-1-yl)chroman (AcO-9) in CDCl<sub>3</sub>



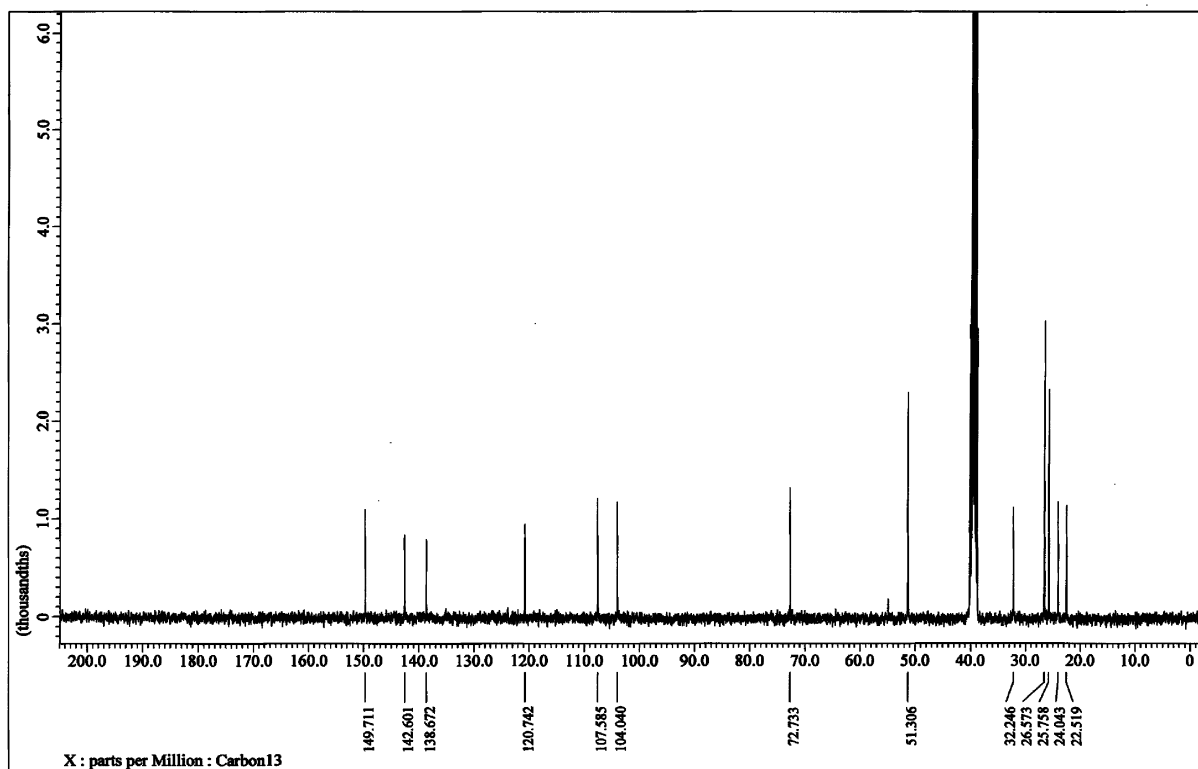
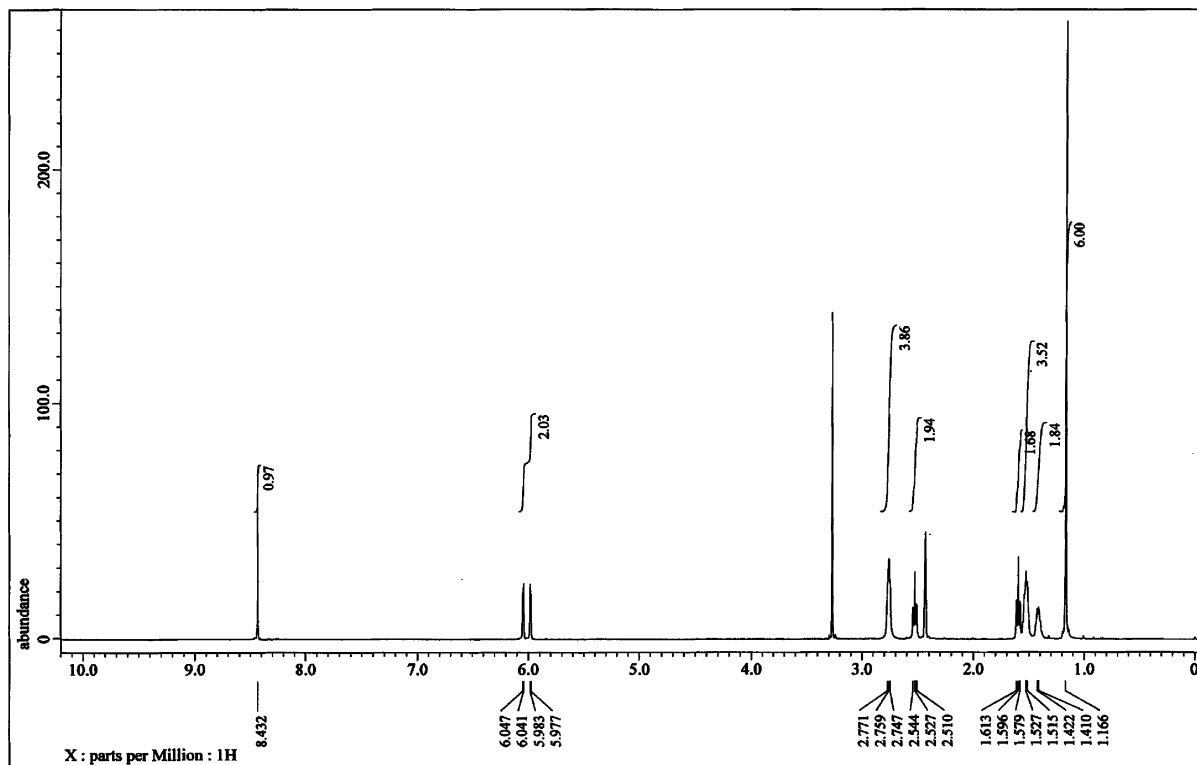
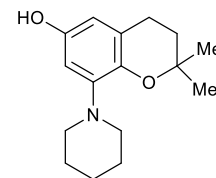
$^1\text{H}$  and  $^{13}\text{C}$  spectra of 2,2-dimethyl-8-(pyrrolidin-1-yl)chroman-6-ol (**9**) in  $\text{CDCl}_3$



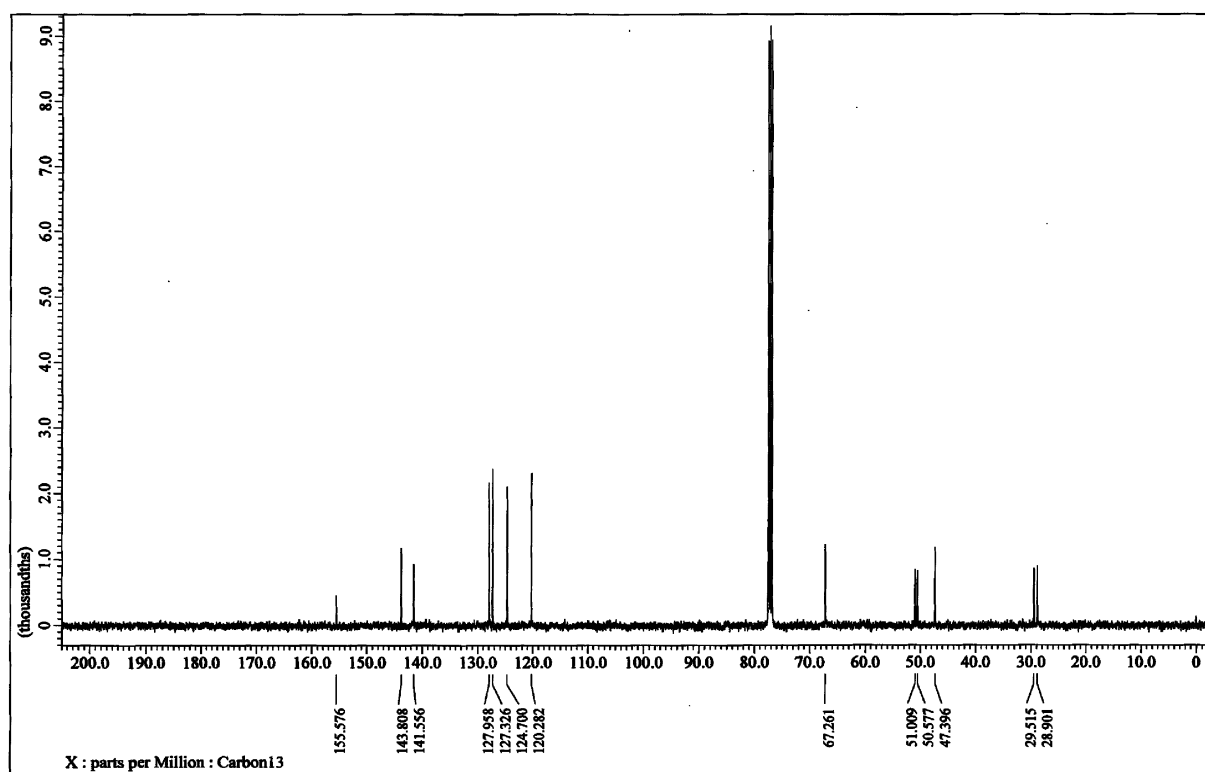
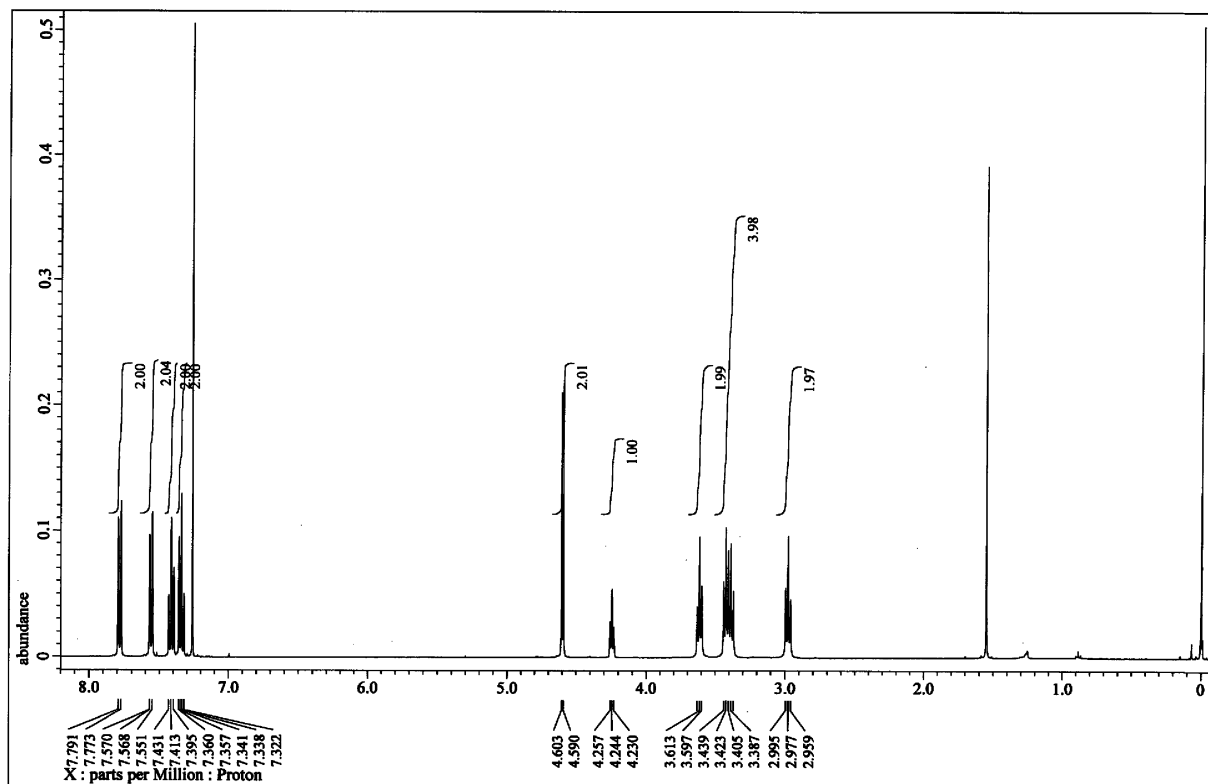
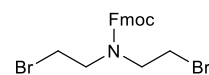
$^1\text{H}$  and  $^{13}\text{C}$  spectra of 6-acetoxy-2,2-dimethyl-8-(piperidin-1-yl)chroman (AcO-10) in  $\text{CD}_3\text{OD}$



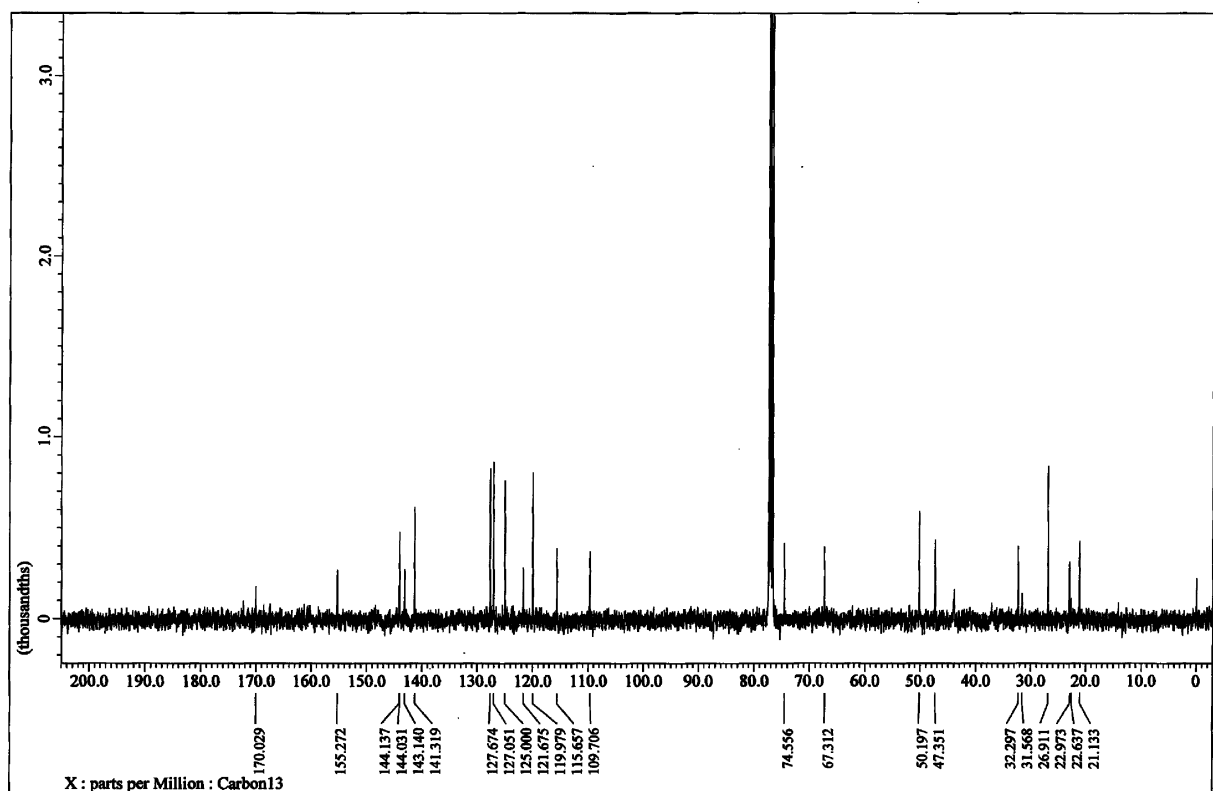
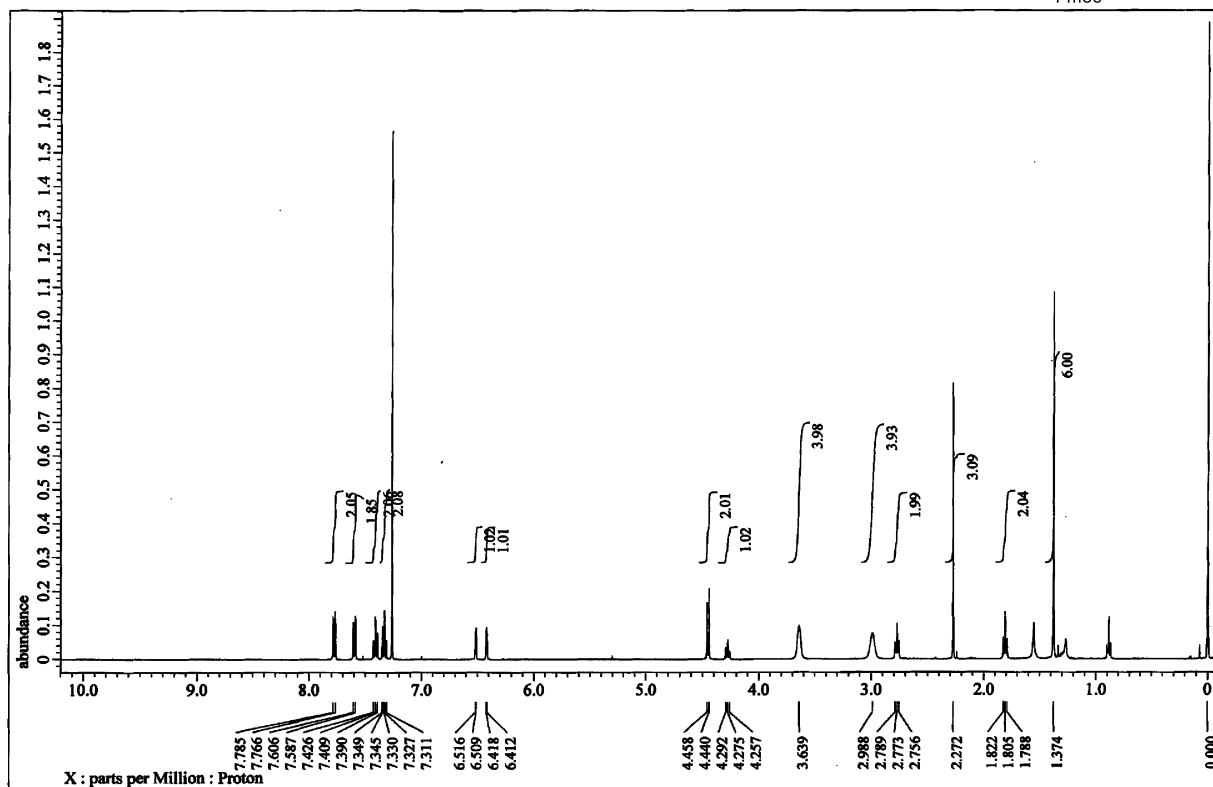
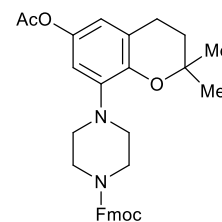
<sup>1</sup>H and <sup>13</sup>C spectra of 2,2-dimethyl-8-(piperidin-1-yl)chroman-6-ol (10) in DMSO-d<sub>6</sub>



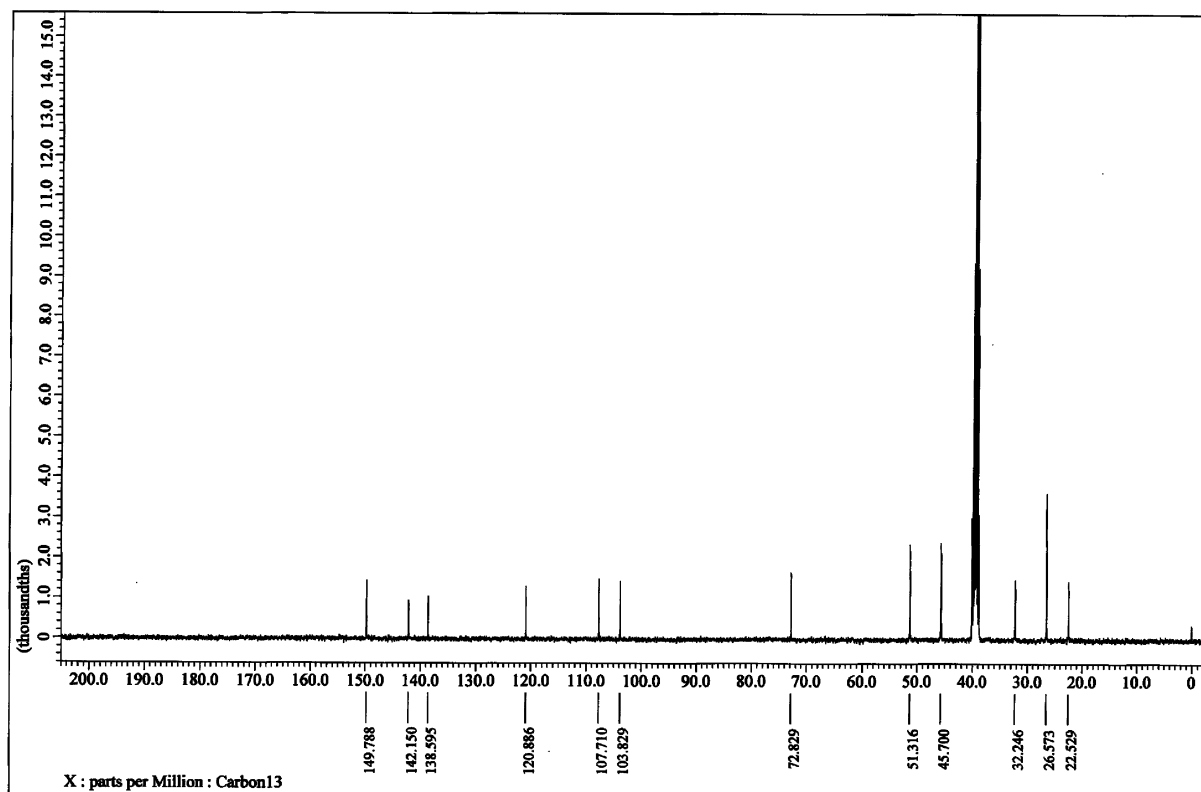
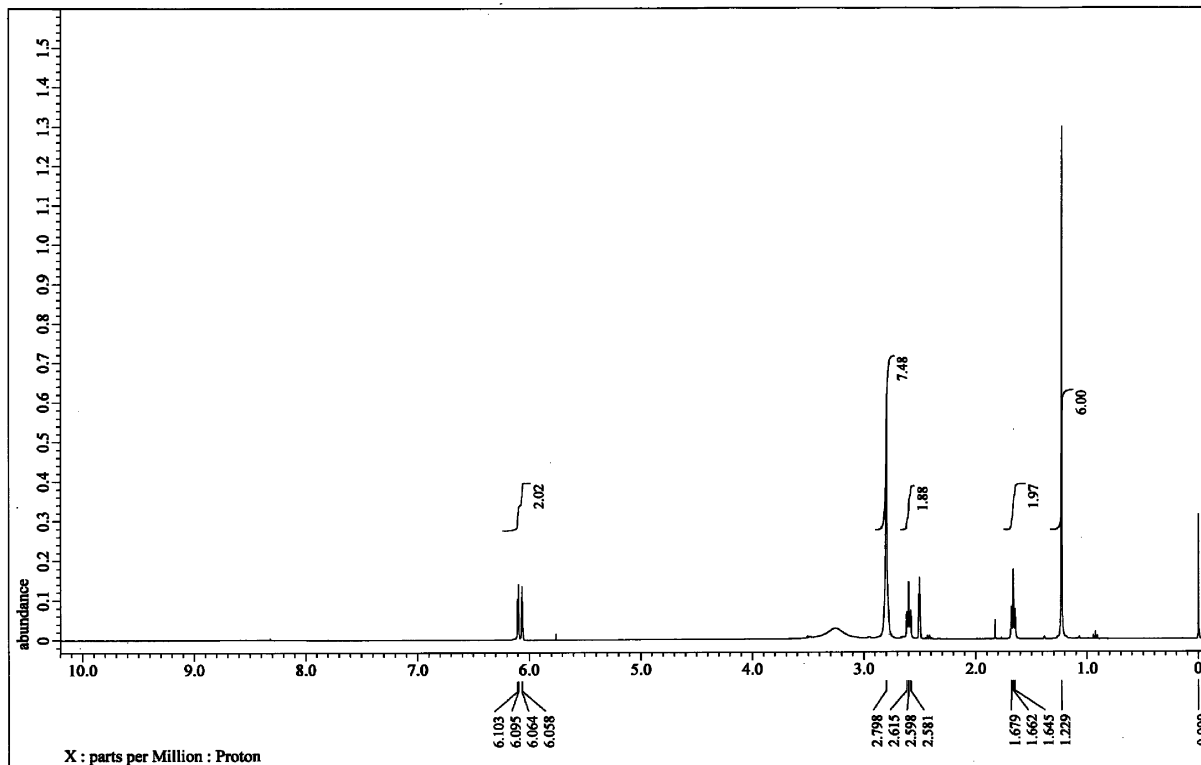
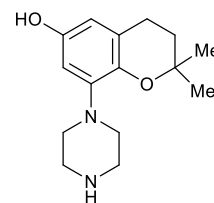
<sup>1</sup>H and <sup>13</sup>C spectra of 6-acetoxy-2,2-dimethyl-Fmoc-bis(2-bromoethyl)amine in CDCl<sub>3</sub>



8-(Piperazin-1-yl)chroman-6-ol (AcO-11) in CDCl<sub>3</sub>

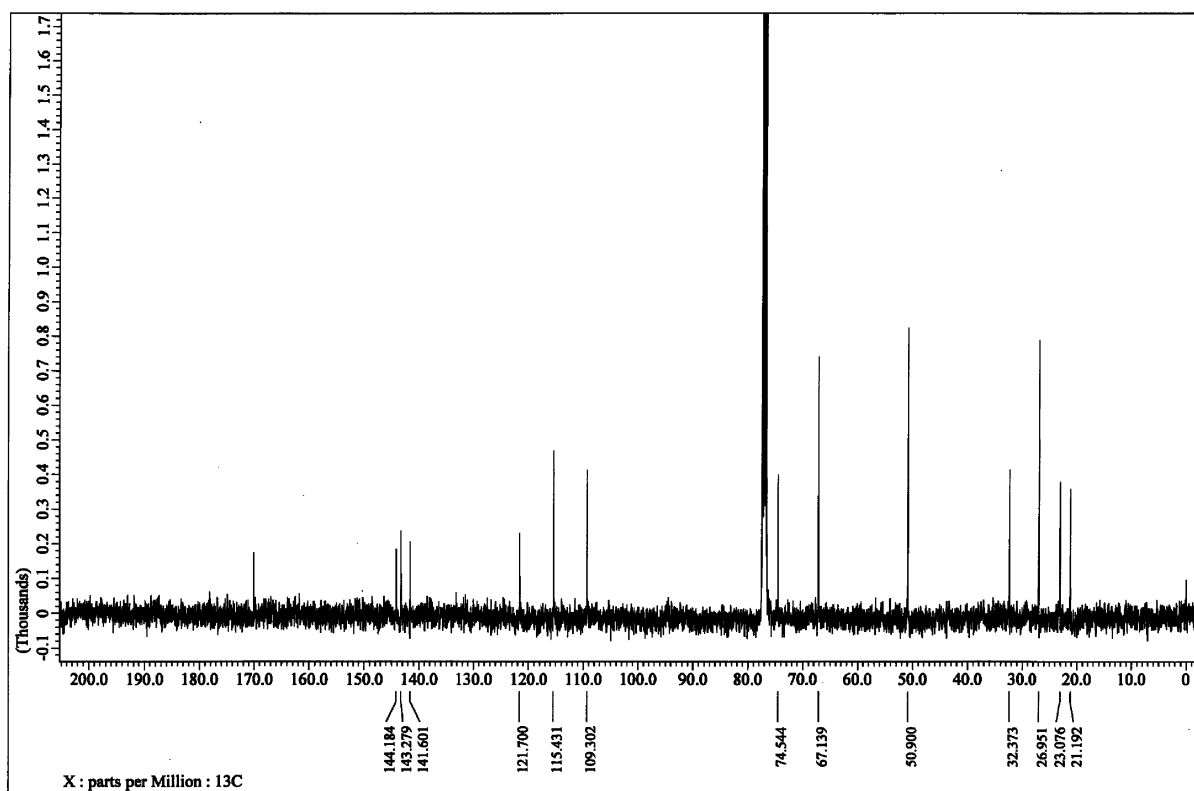
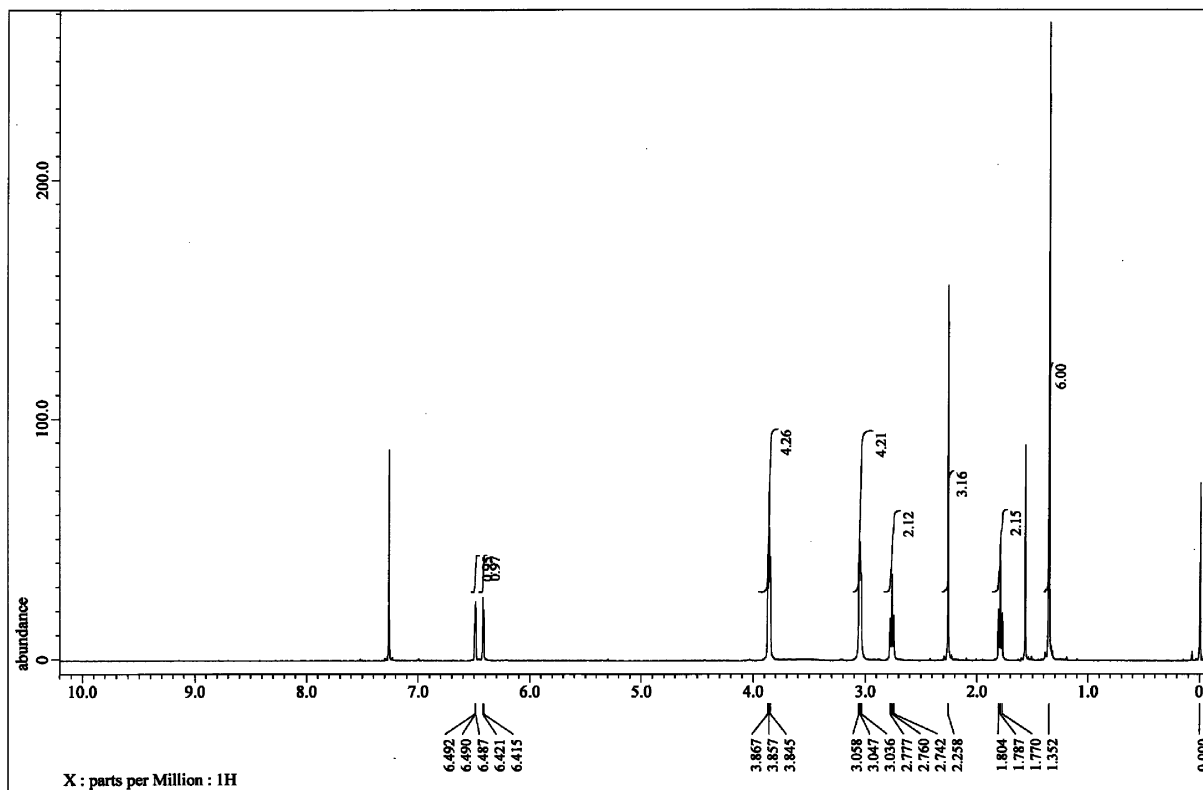
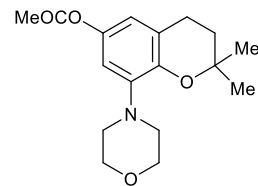


$^1\text{H}$  and  $^{13}\text{C}$  spectra of 2,2-dimethyl-8-(piperazin-1-yl)chroman-6-ol (11) in  $\text{DMSO-}d_6$





$^1\text{H}$  and  $^{13}\text{C}$  spectra of 6-acetoxy-2,2-dimethyl-8-(morpholin-4-yl)chroman (AcO-12) in  $\text{CDCl}_3$



$^1\text{H}$  and  $^{13}\text{C}$  spectra of 2,2-dimethyl-8-(morpholin-4-yl)chroman-6-ol (12) in  $\text{CDCl}_3$

