

## Supporting Information

# A Facile Total Synthesis of Drospirenone Isomers Containing 14 $\beta$ -Hydrogen Configuration

Wen Wan,<sup>\*a</sup> Guobing Ma,<sup>a</sup> Wei Gao,<sup>a</sup> Jing Wang,<sup>a</sup> Lei Li,<sup>a</sup> Shangqin Rao,<sup>a</sup> Chunfang Zheng,<sup>a</sup>  
Haizhen Jiang,<sup>a</sup> Hongmei Deng,<sup>b</sup> Jian Hao<sup>\*a,c</sup>

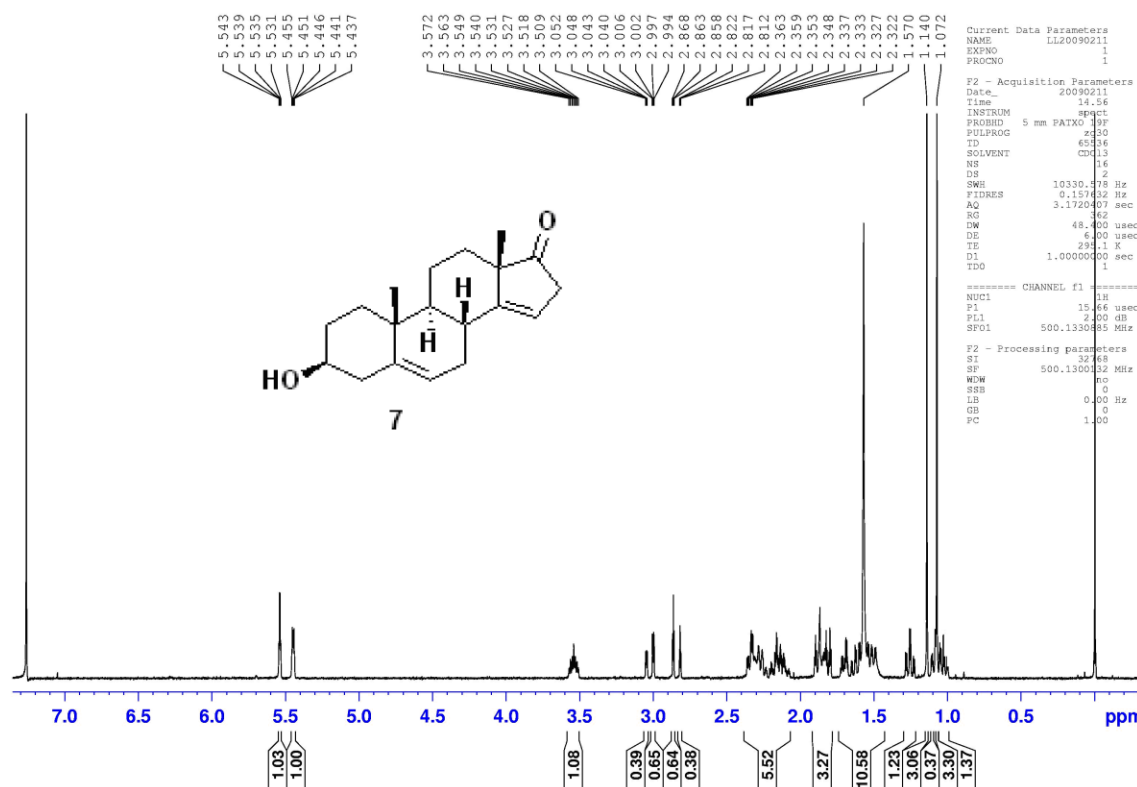
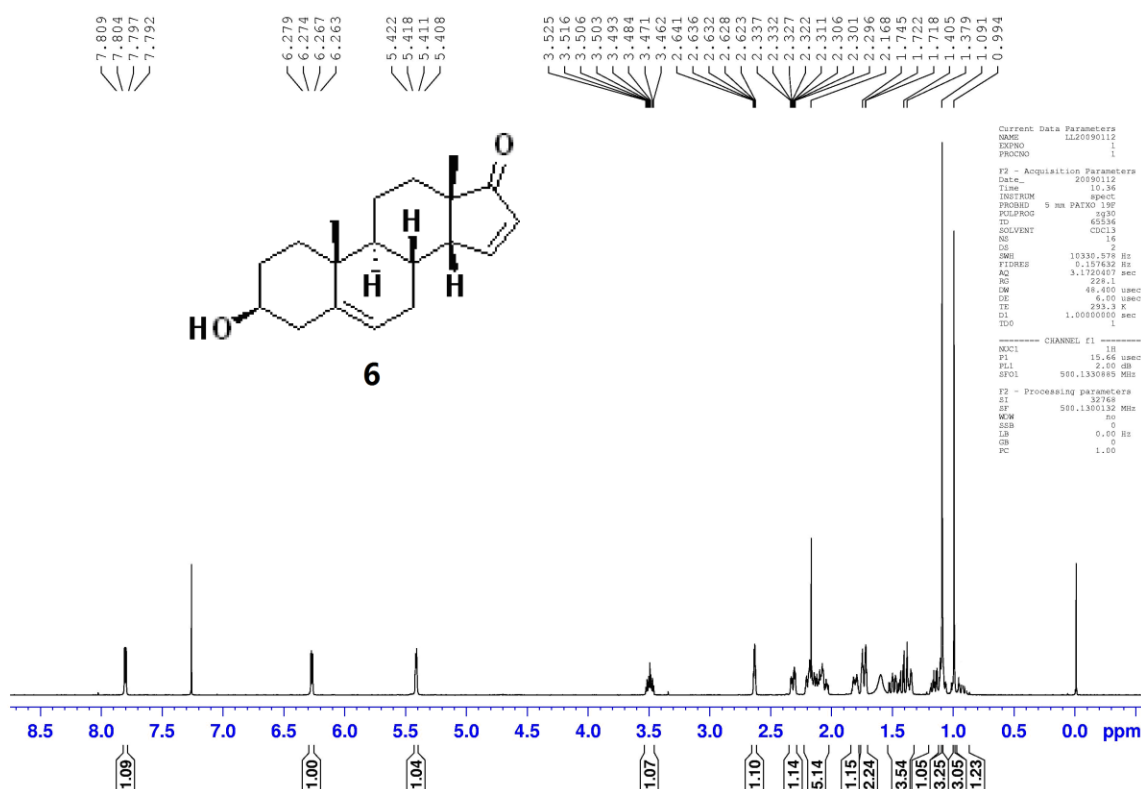
<sup>a</sup>Department of Chemistry, Shanghai University, 99 Shangda Road, Shanghai 200444, China. Fax: 0086-21-66133380

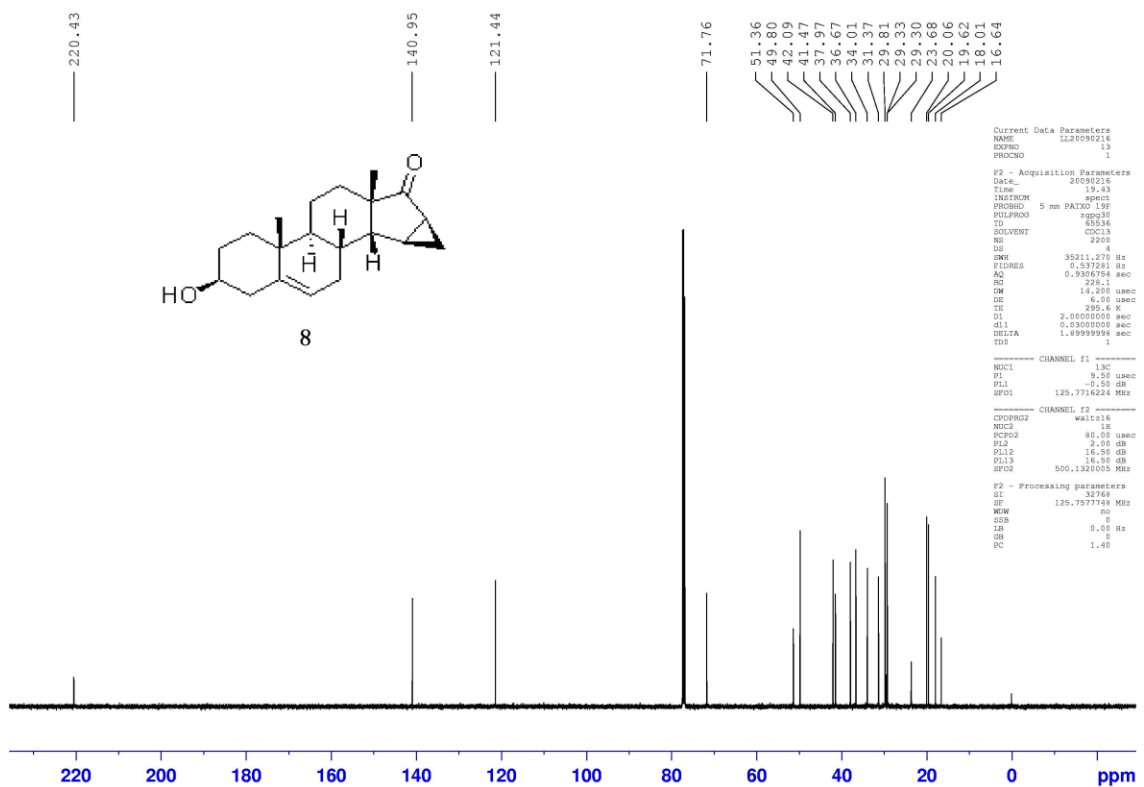
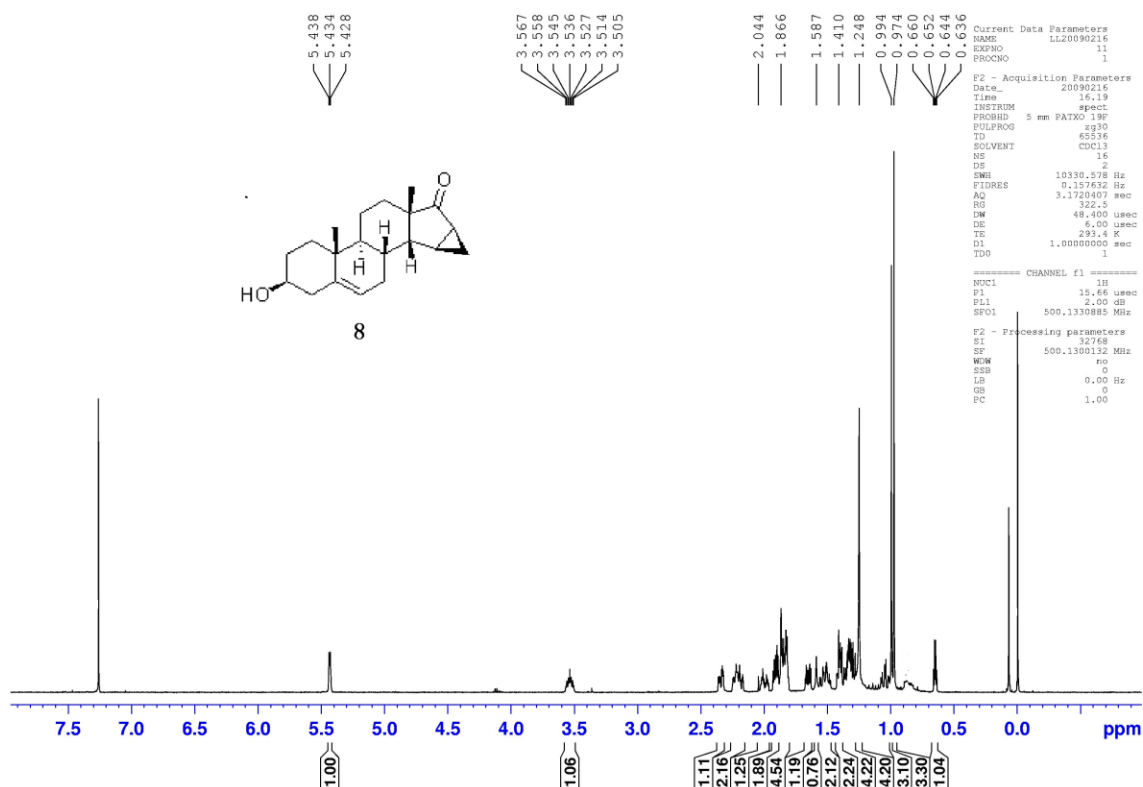
E-mail: jhao@staff.shu.edu.cn

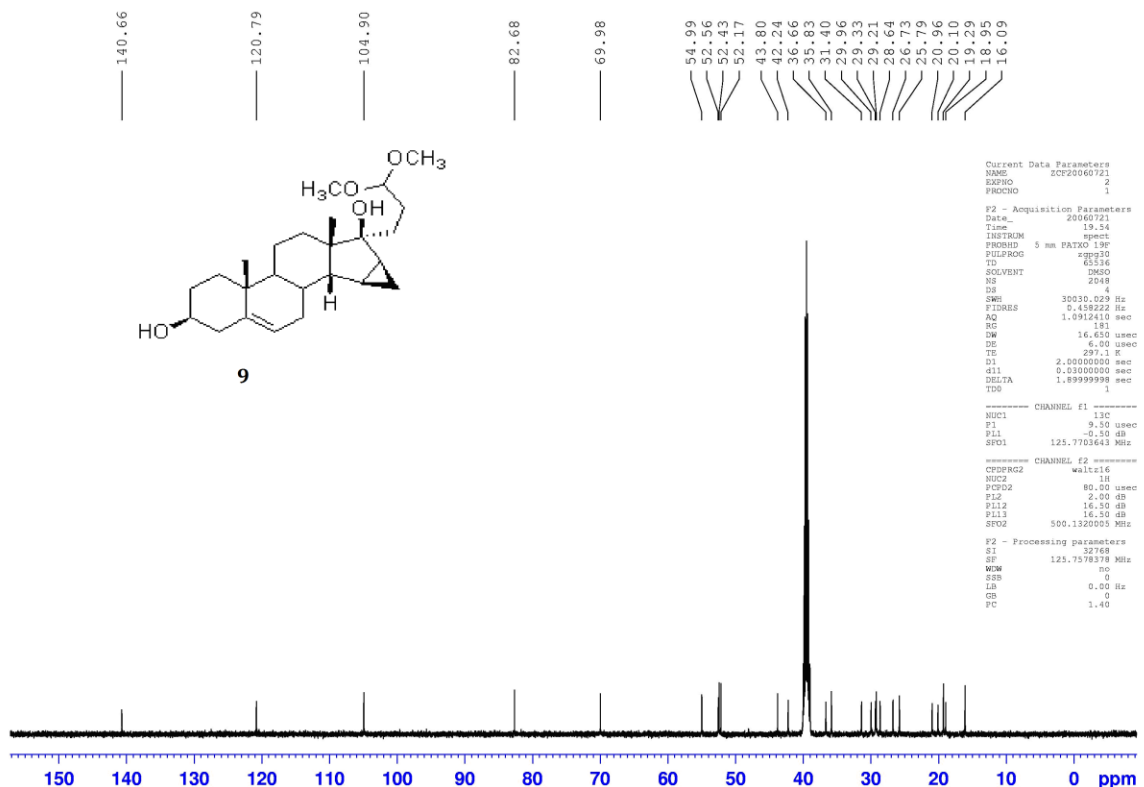
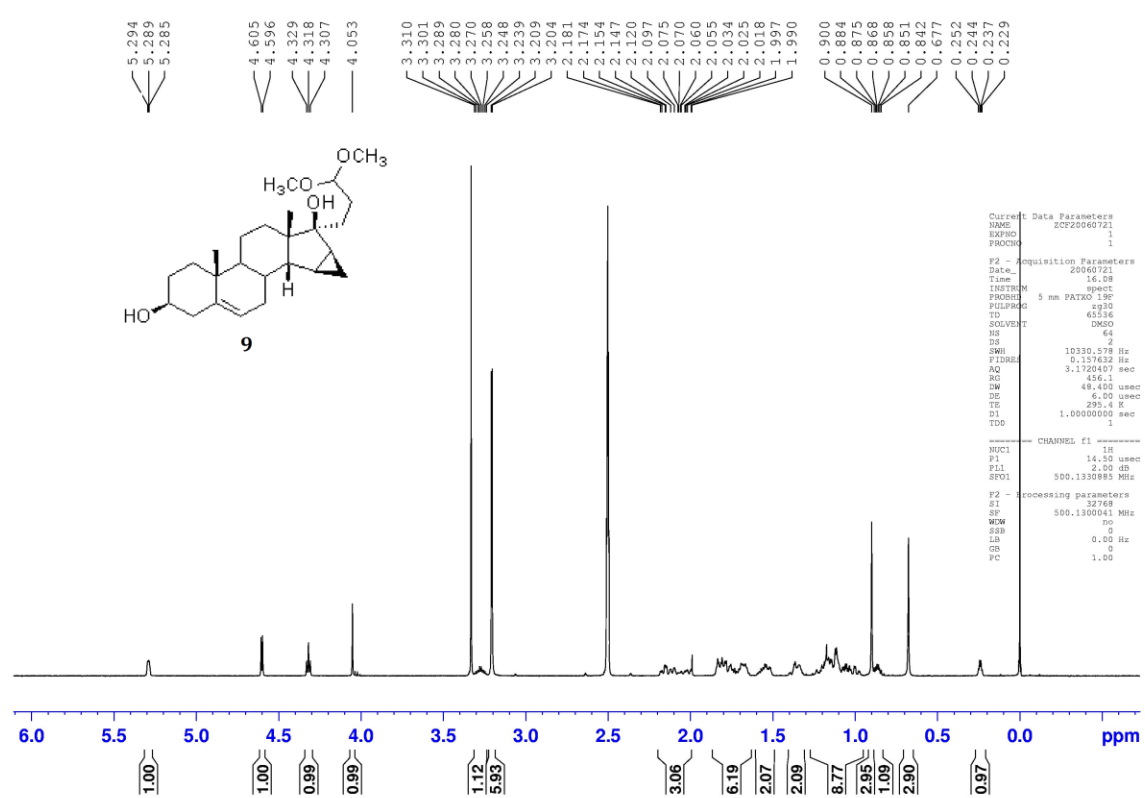
<sup>b</sup>Laboratory for Microstructures, Shanghai University,

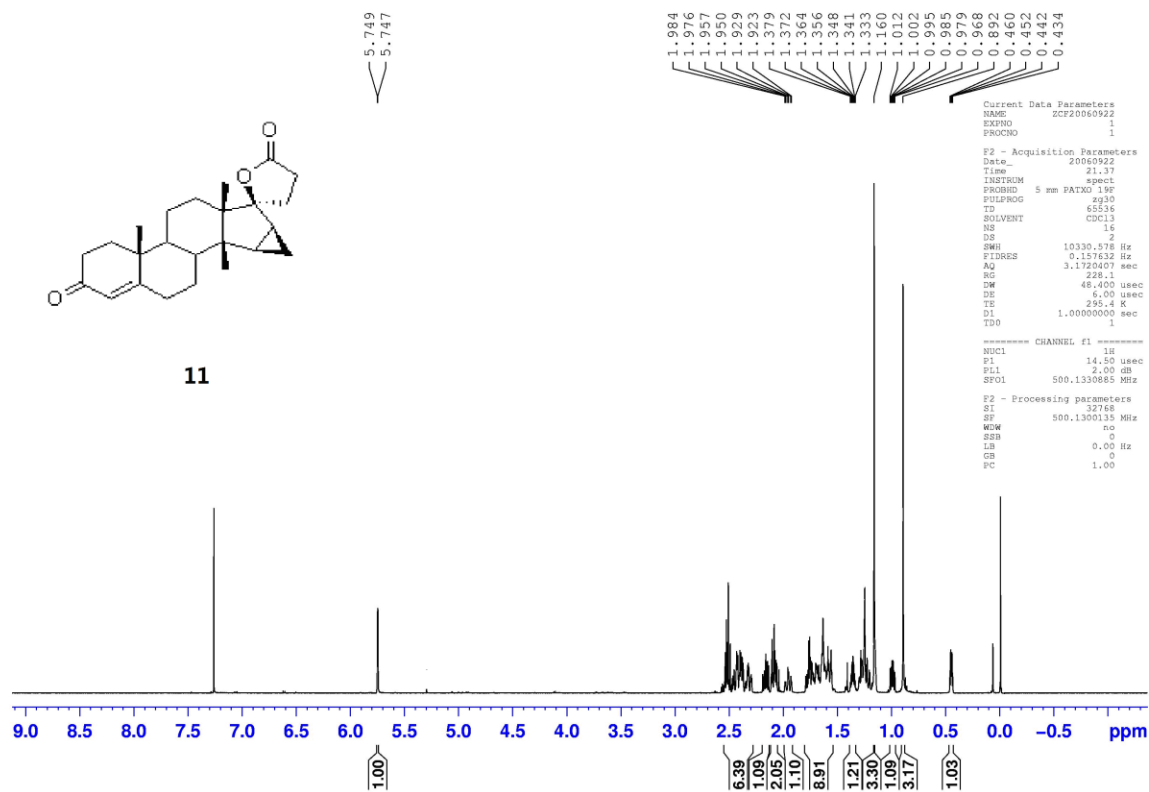
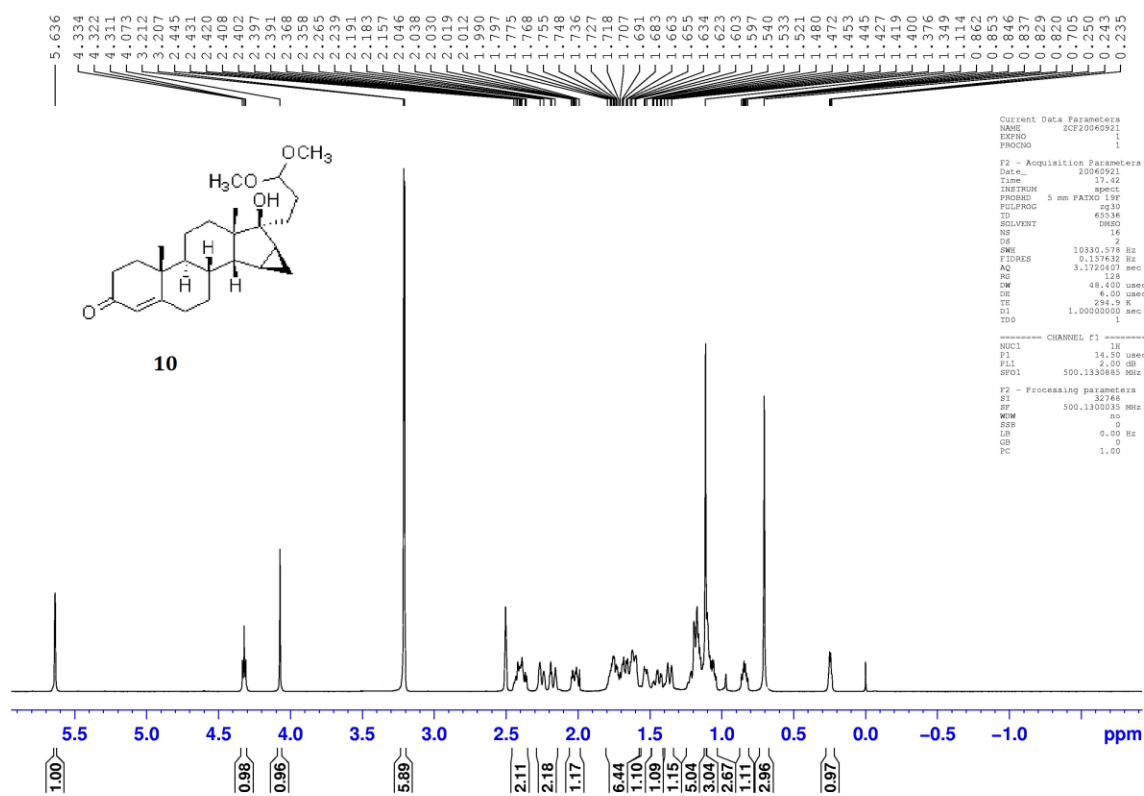
<sup>c</sup>Institution Key Laboratory of Organofluorine Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, China.

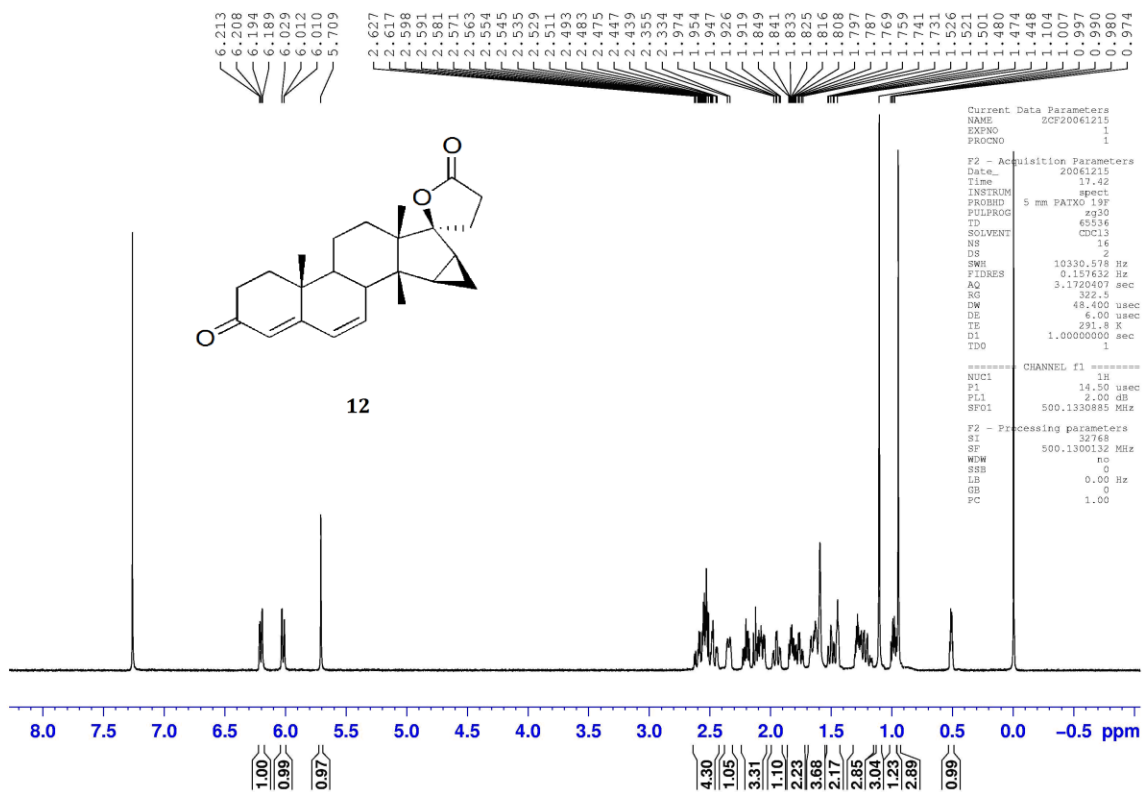
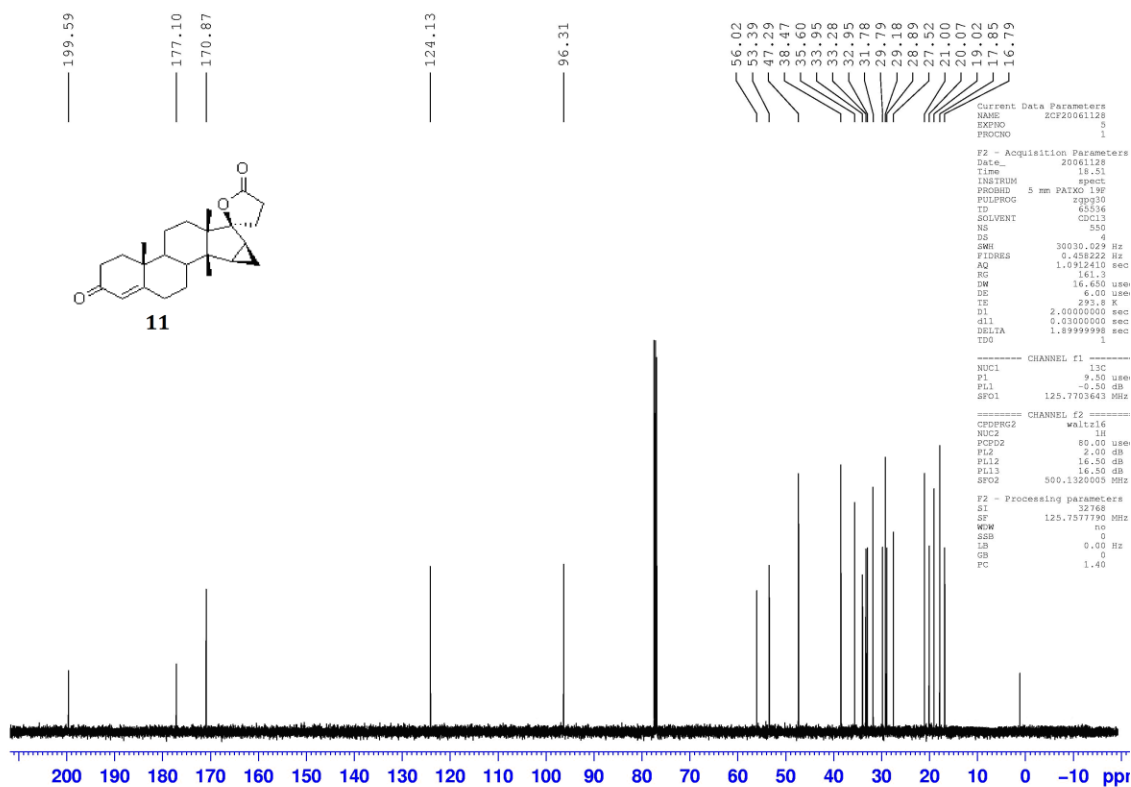
# <sup>1</sup>H NMR and <sup>13</sup>C NMR Spectra

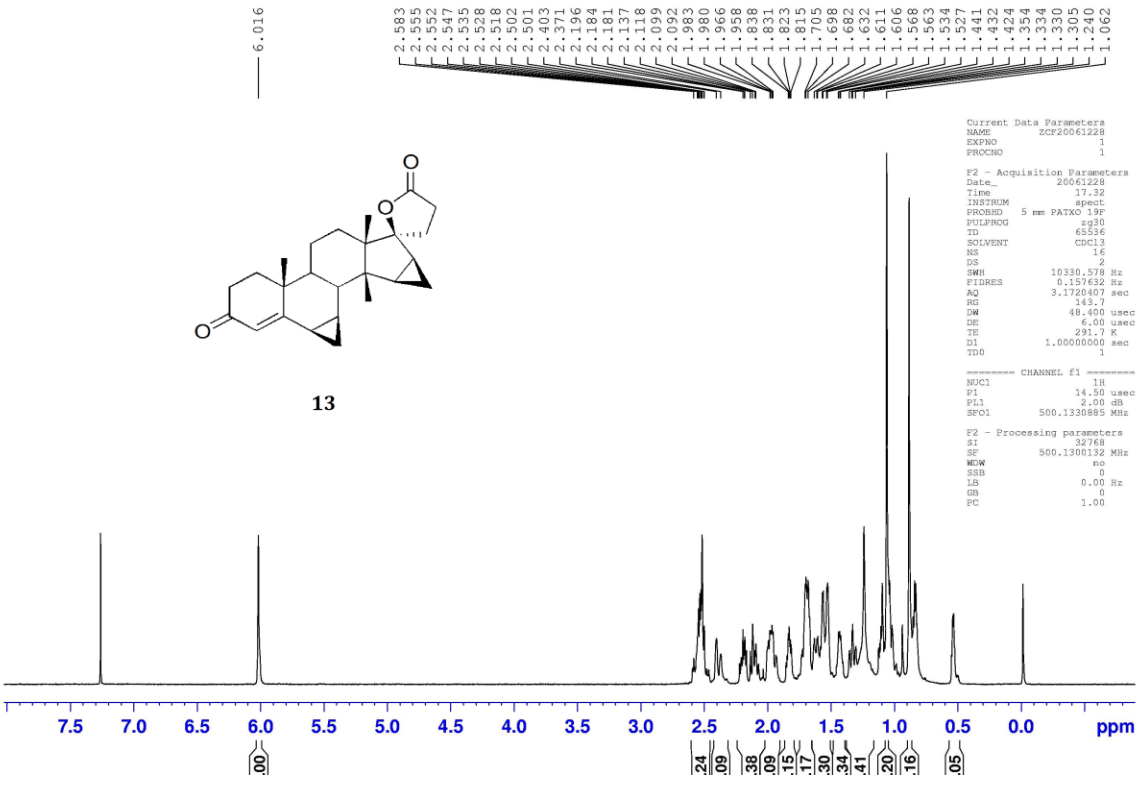
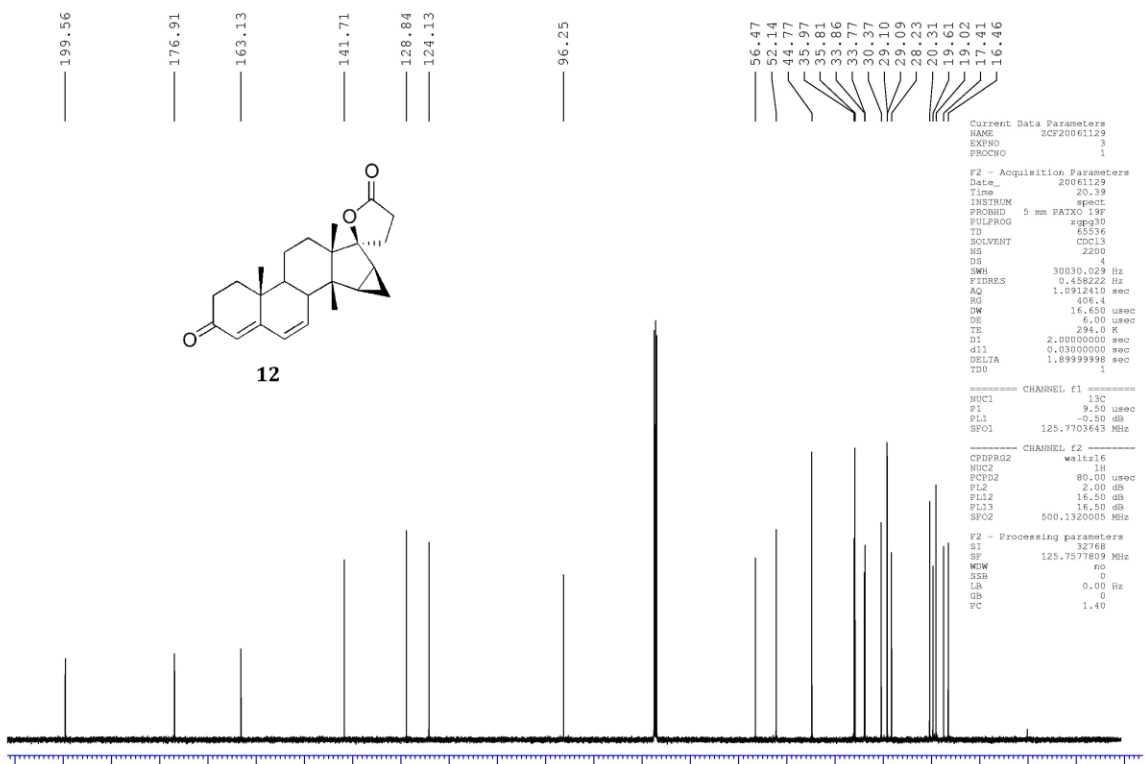






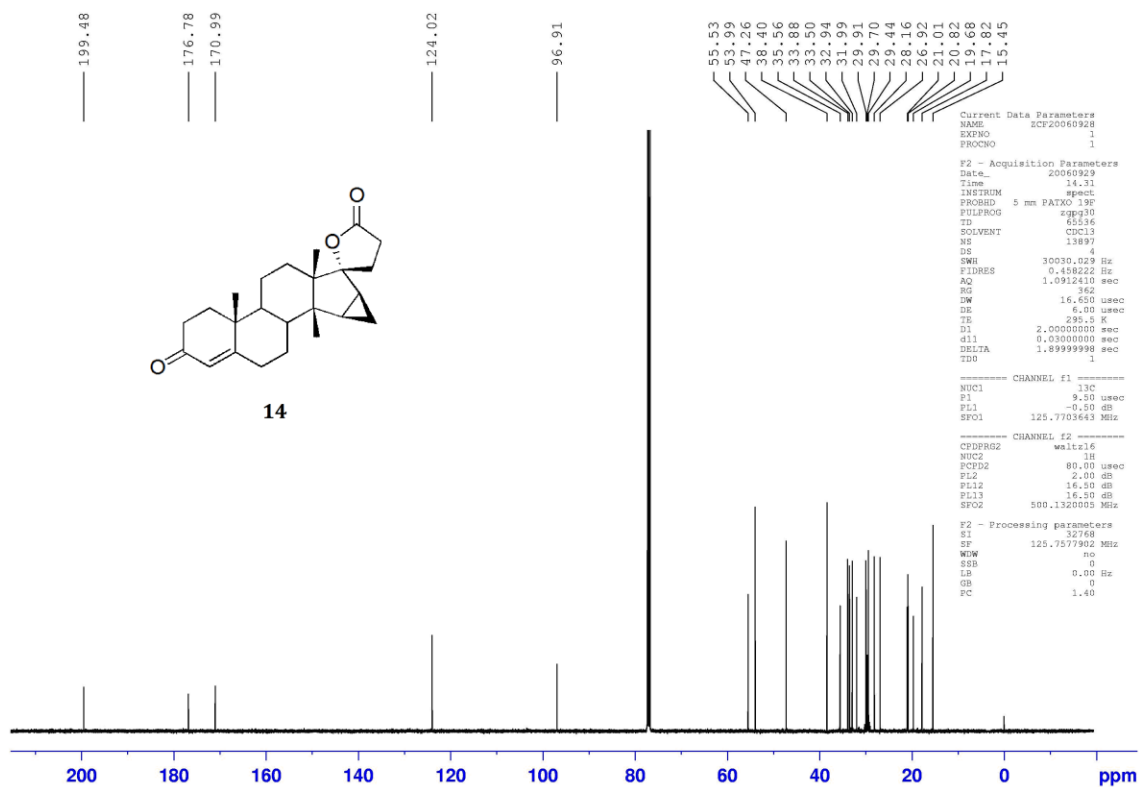




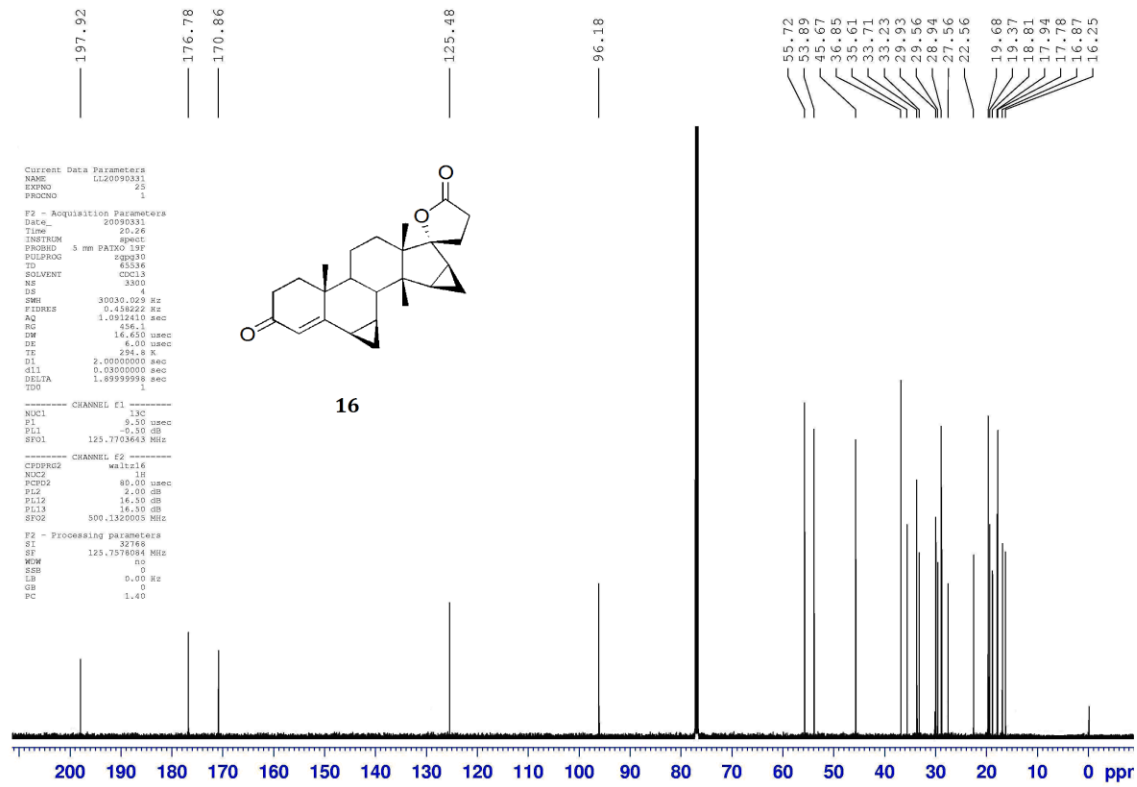
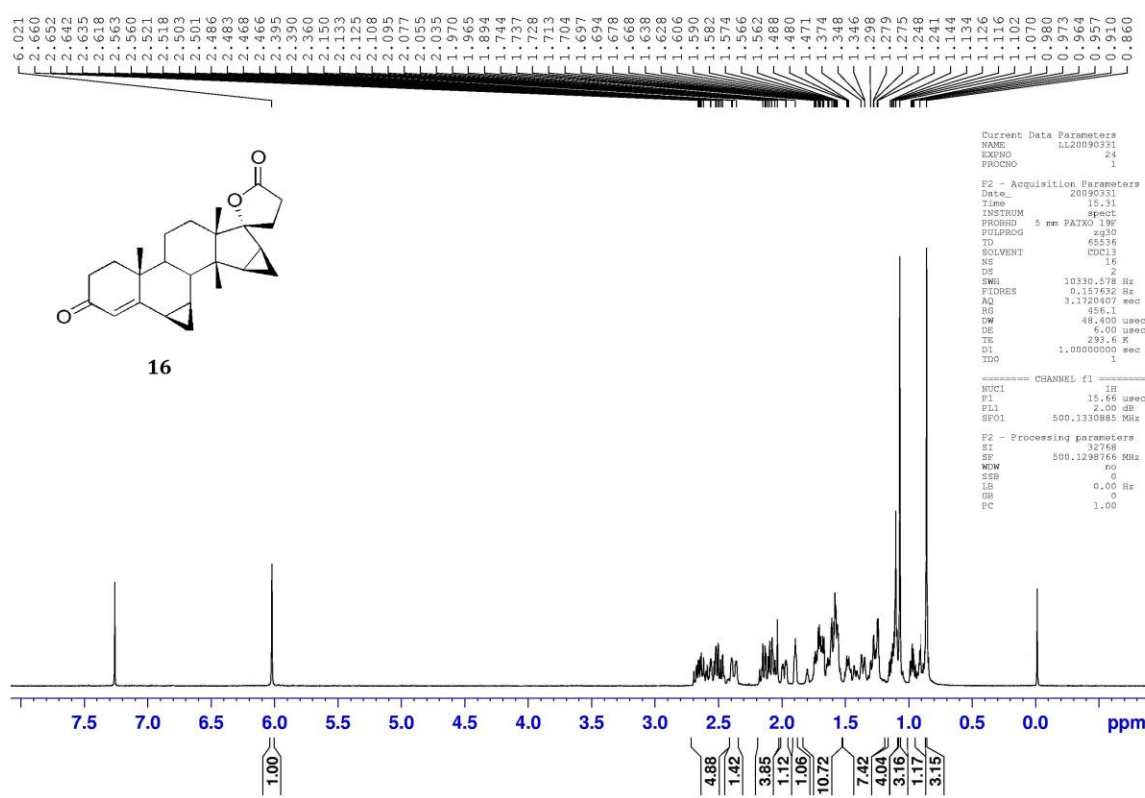






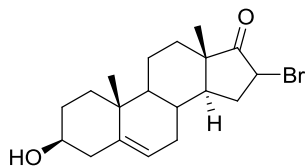






## References for Known Compounds:

5: 16-Bromo-3 $\beta$ -hydroxy-5-androsten-17-one:

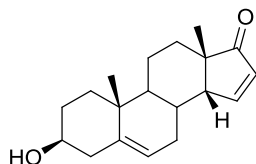


CAS: 1004971-42-9

### References:

M. Numazawa, M. Ogata, K. Abiko, Kanna; M. Nagaoka, *Steroids* 1985, **45**, 403.

6: 3 $\beta$ -Hydroxy-14 $\beta$ -hydrogen-isoandroster-5,15-dien-17-one



CAS: 34603-35-5

### References:

- 1) F. Frappier, M. Pais, F. Jarreau, *Bulletin de la Societe Chimique de France*, 1972, **2**, 610.
- 2) J. Pataki, G. Siade, *J. Org. Chem.*, 1972, **37**, 2127.