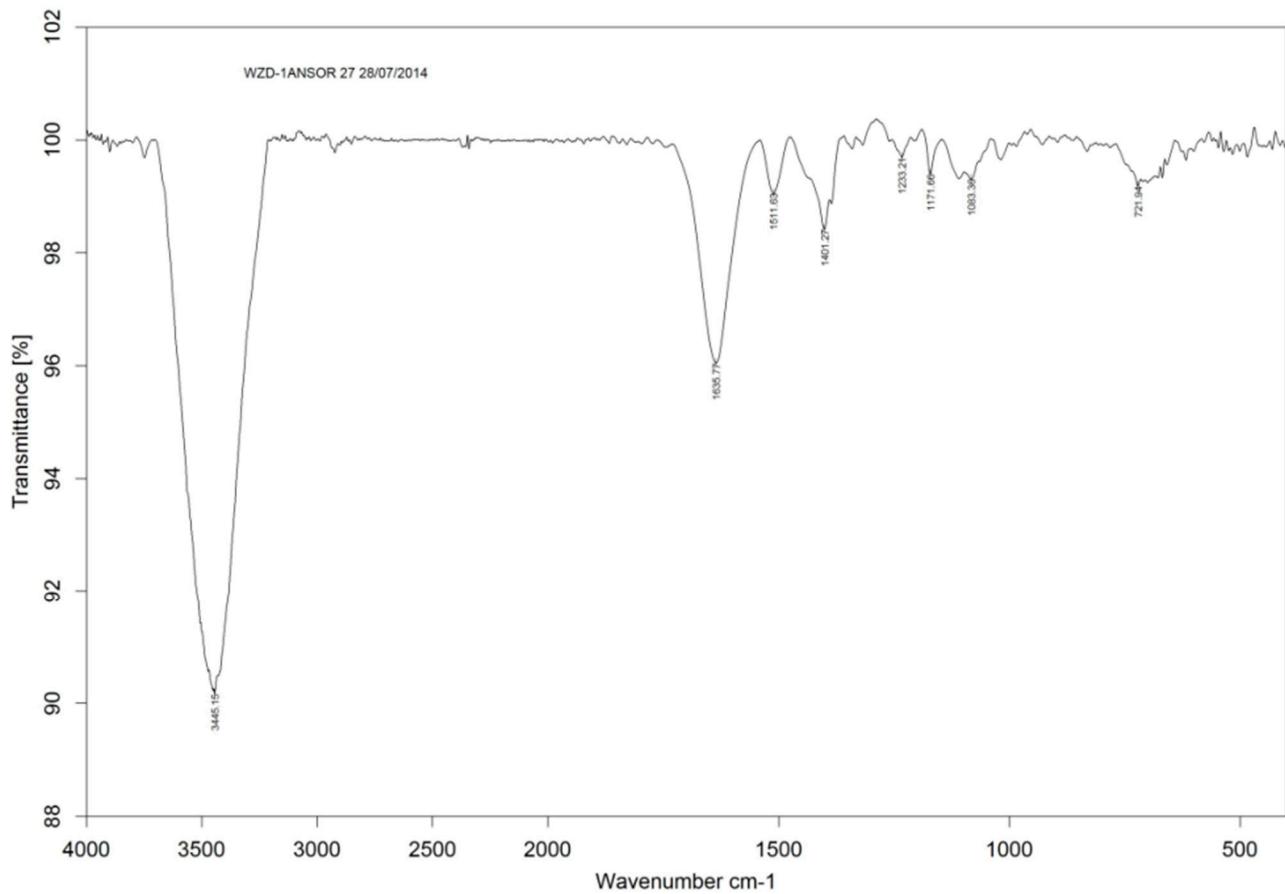
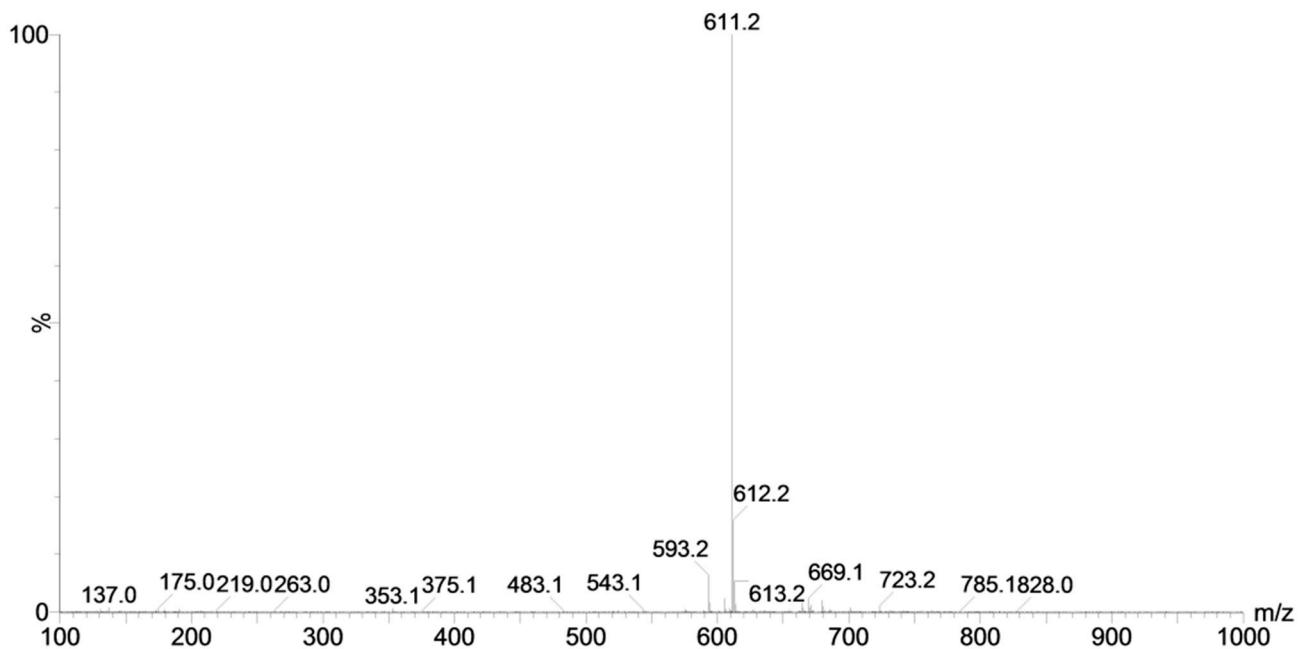


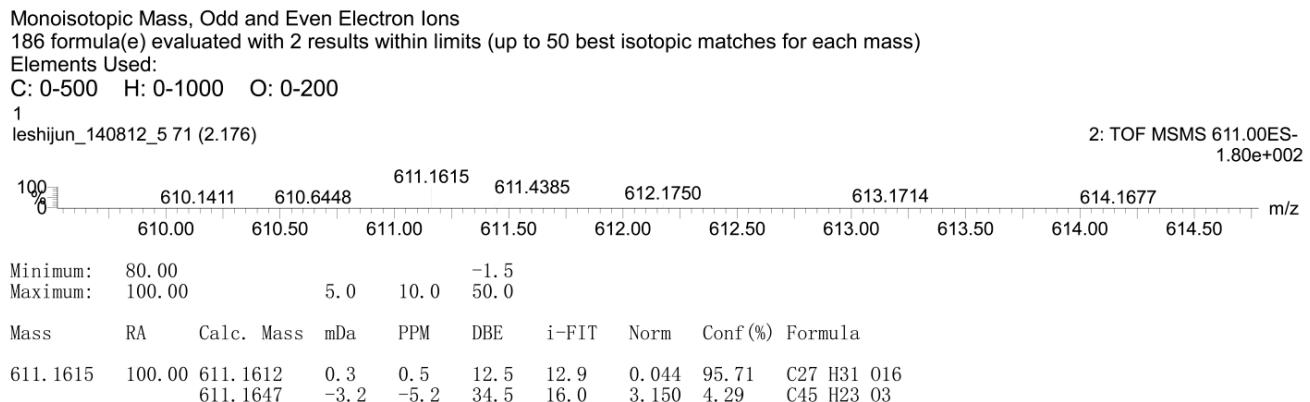
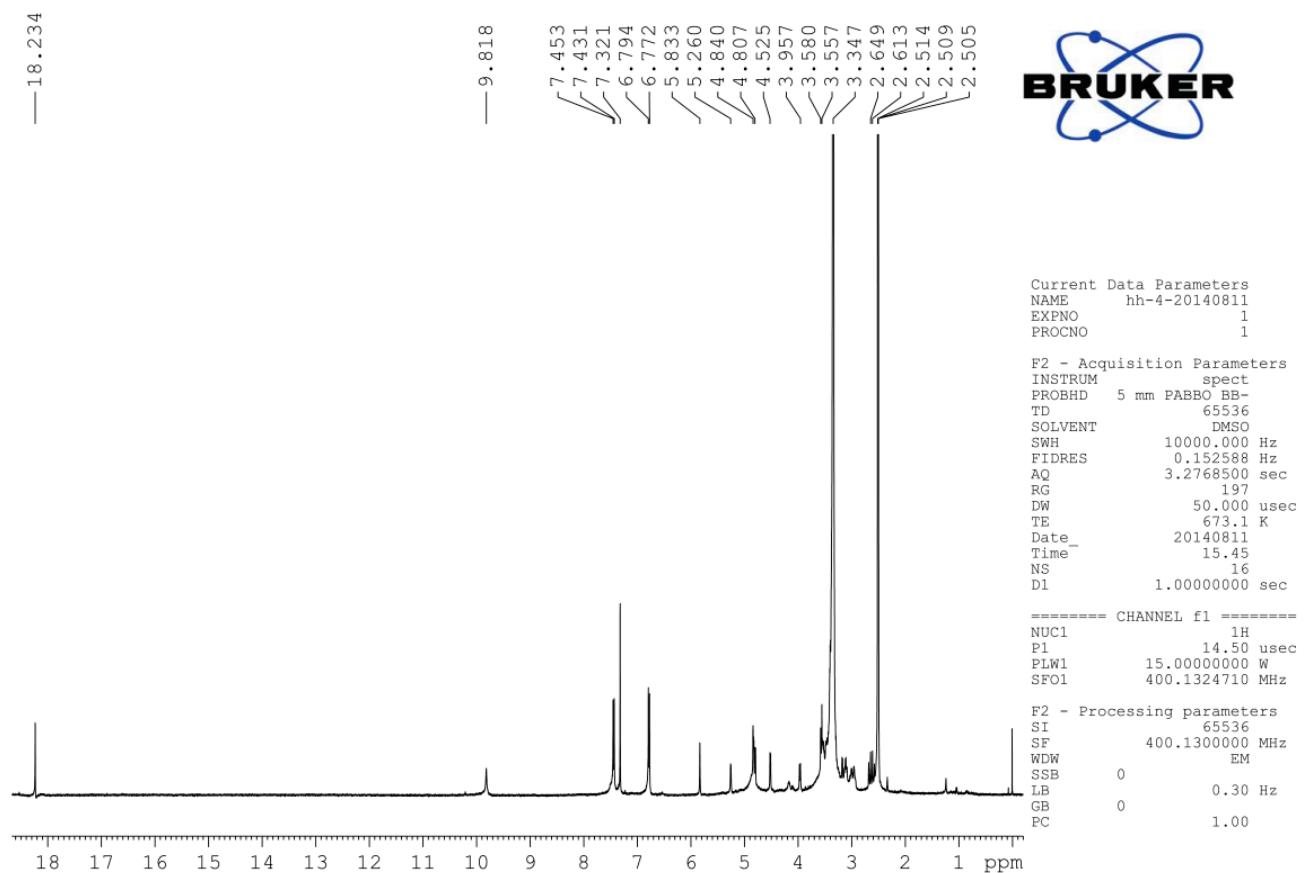
# Supplementary Information

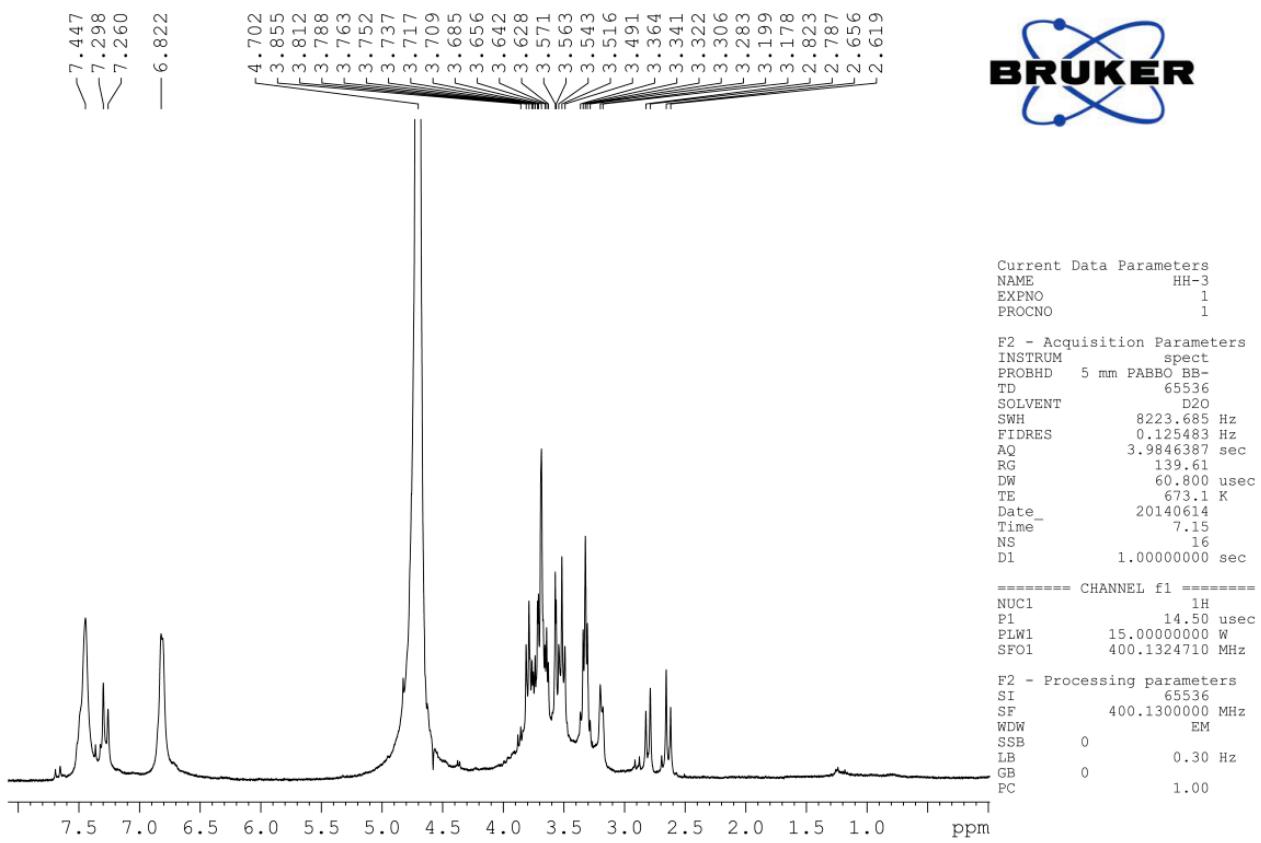
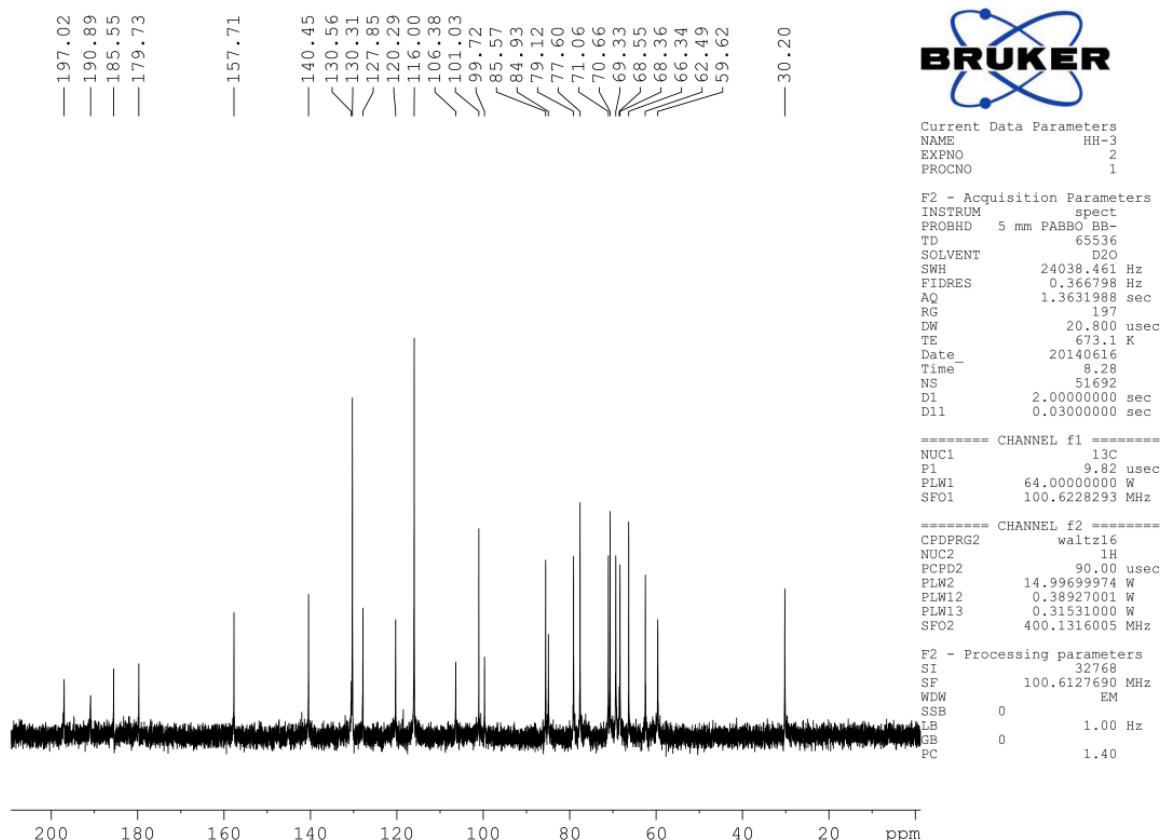
**Figure S1.** IR spectrum of hydroxysafflor yellow B (**1**).



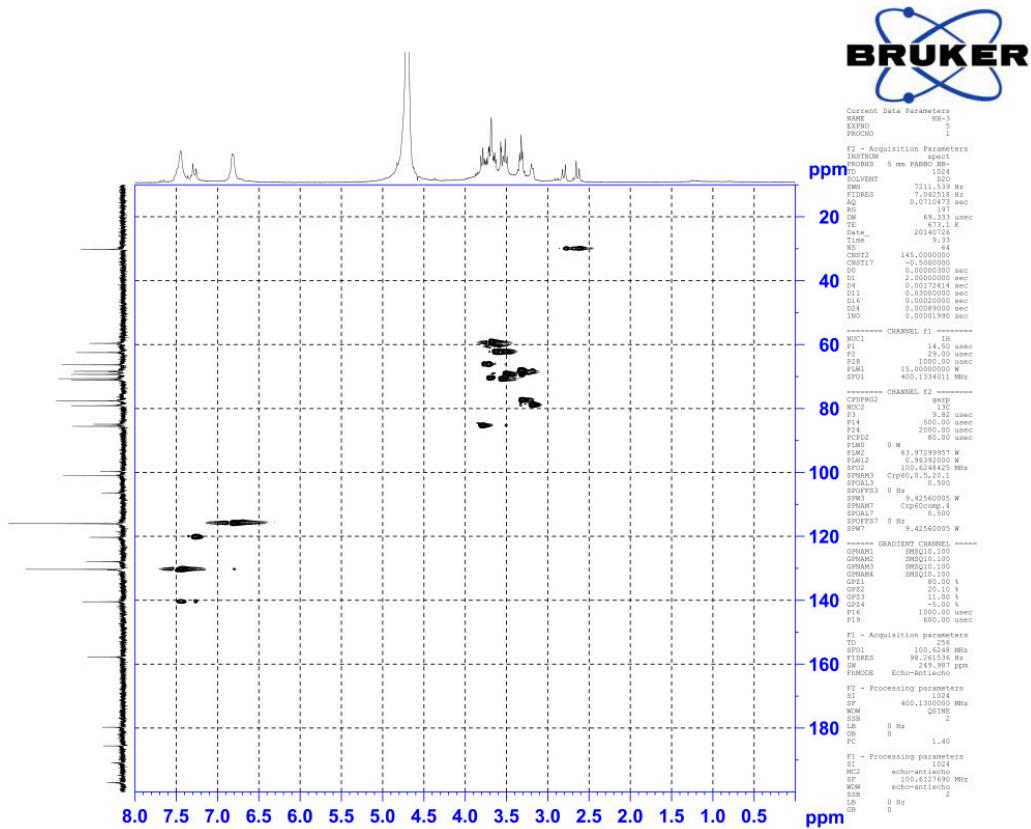
**Figure S2.** ESI spectrum of hydroxysafflor yellow B (**1**) in MeOH.



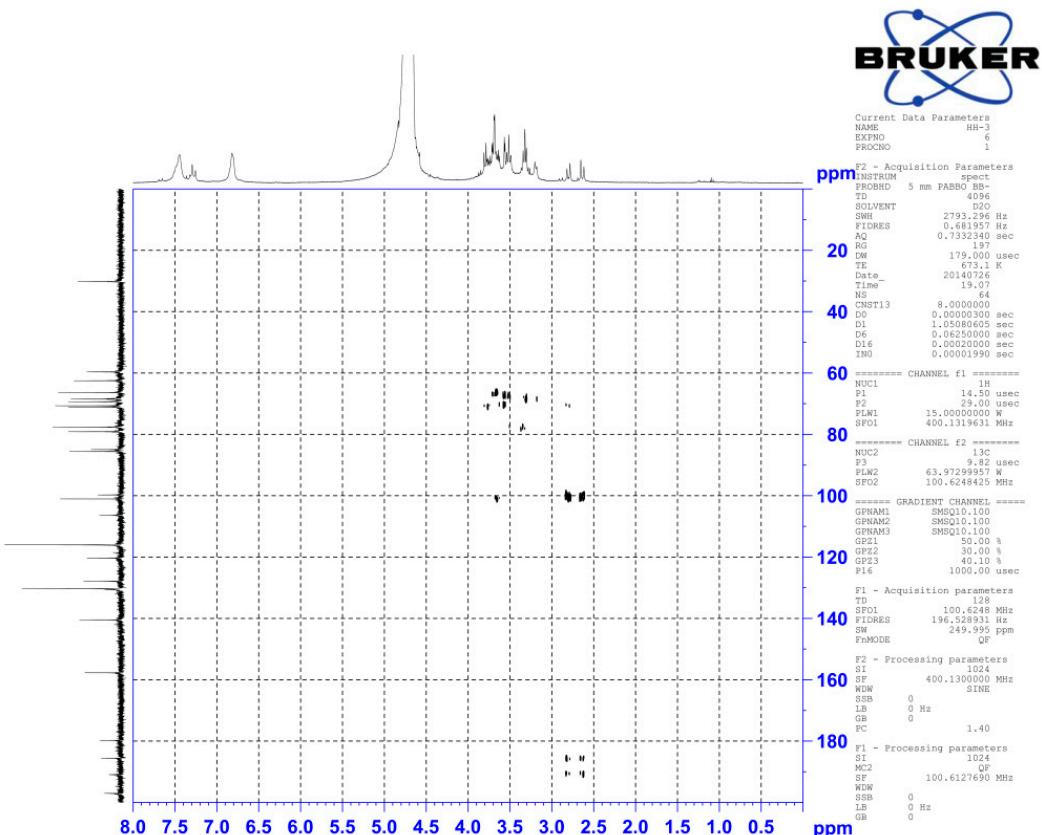
**Figure S3.** HRESIMS spectrum of hydroxysafflor yellow B (**1**) in MeOH.**Figure S4.** <sup>1</sup>H-NMR spectrum of hydroxysafflor yellow B (**1**) in DMSO-*d*<sub>6</sub>.

**Figure S5.**  $^1\text{H}$ -NMR spectrum of hydroxysafflor yellow B (**1**) in  $\text{D}_2\text{O}$ .**Figure S6.**  $^{13}\text{C}$ -NMR spectrum of hydroxysafflor yellow B (**1**) in  $\text{D}_2\text{O}$ .

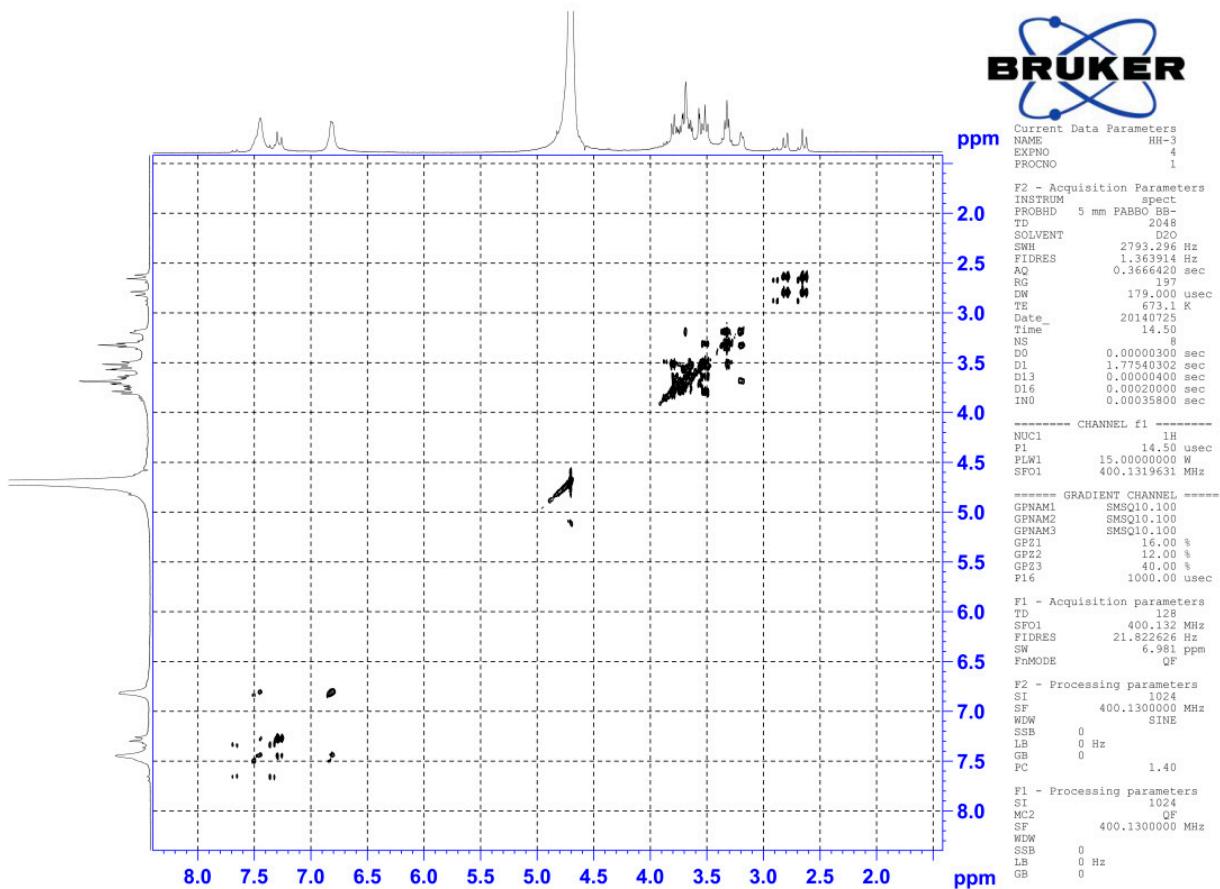
**Figure S7.** HSQC NMR spectrum of hydroxysafflor yellow B (**1**) in D<sub>2</sub>O.



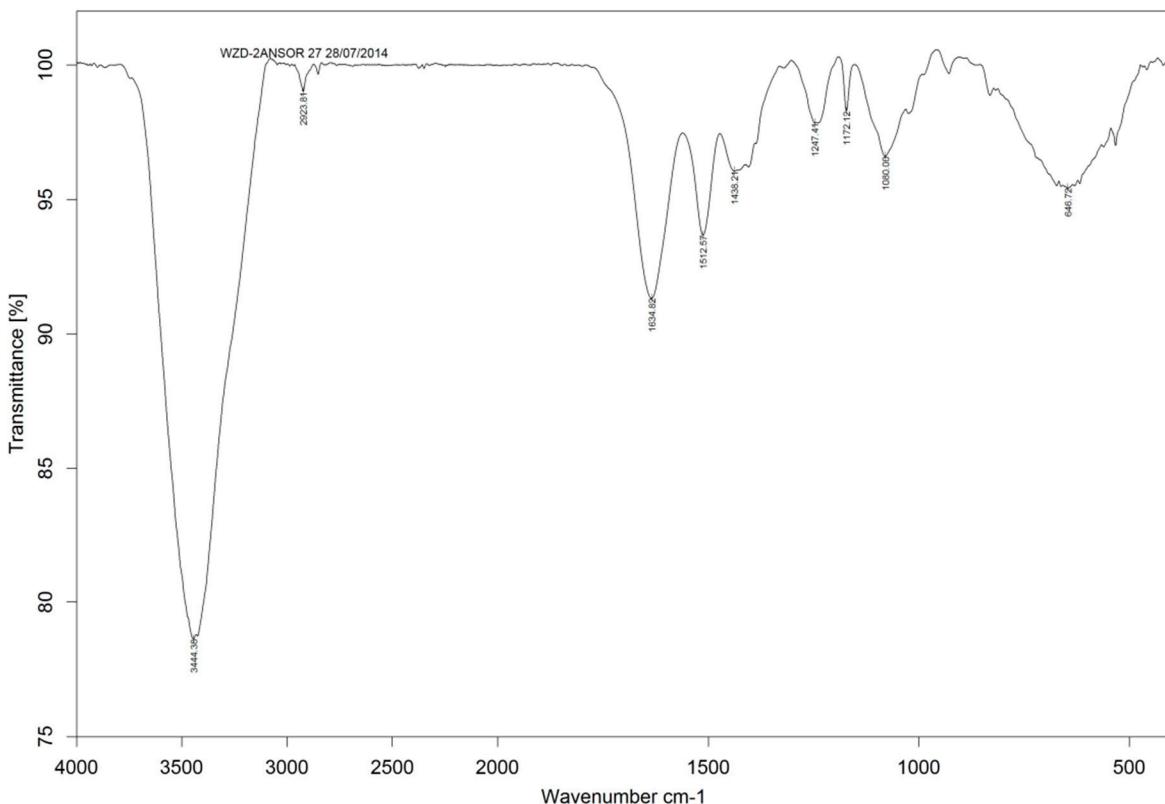
**Figure S8.** HMBC NMR spectrum of hydroxysafflor yellow B (**1**) in D<sub>2</sub>O.

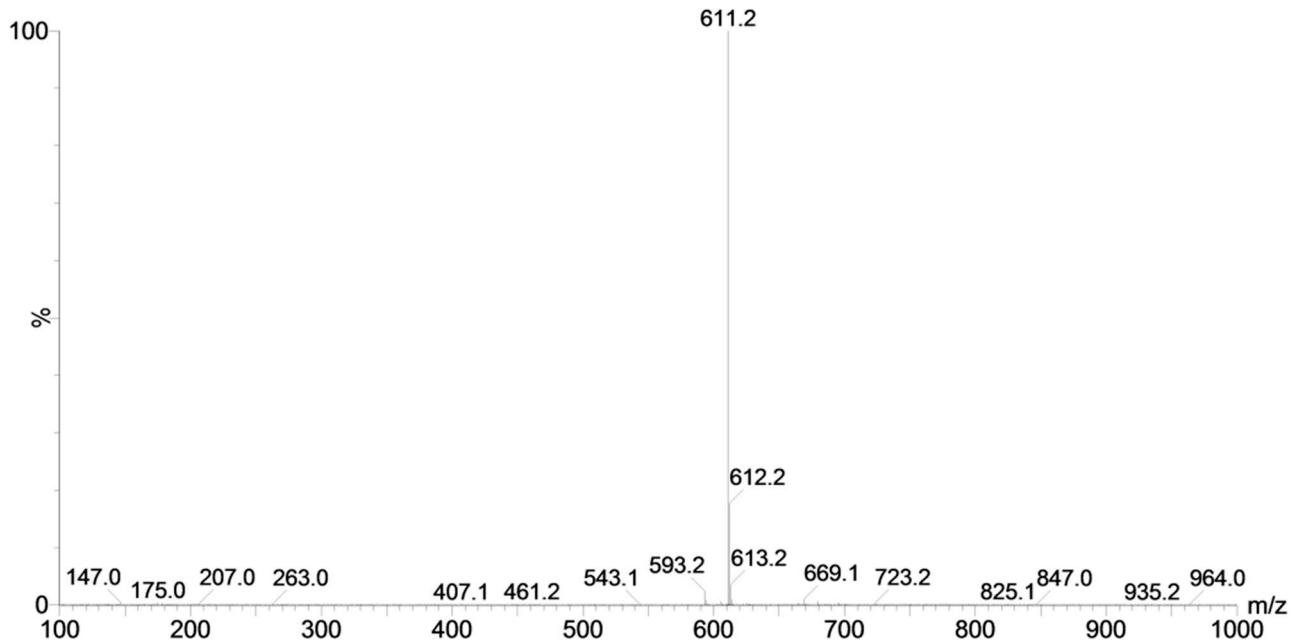
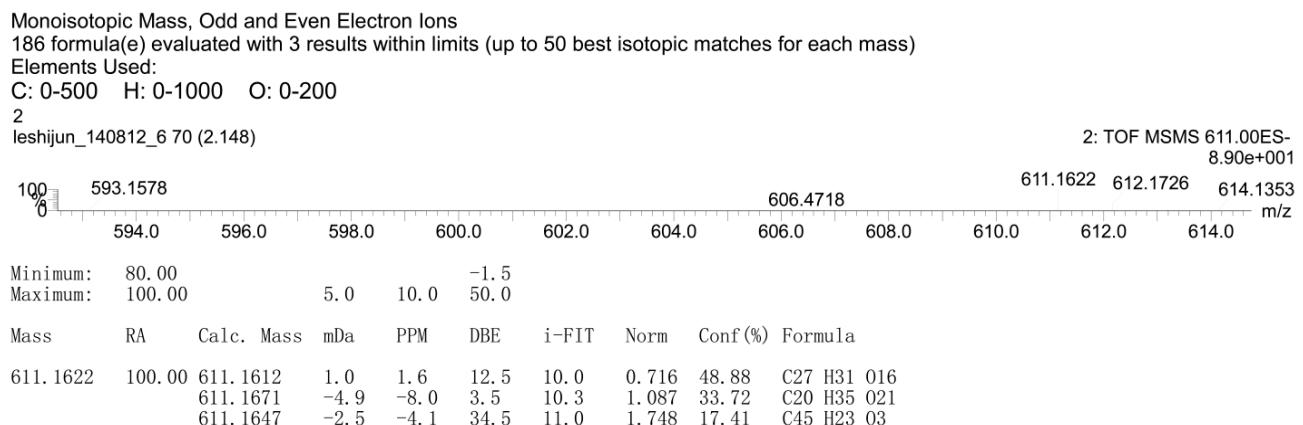


**Figure S9.** COSY NMR spectrum of hydroxysafflor yellow B (**1**) in D<sub>2</sub>O.

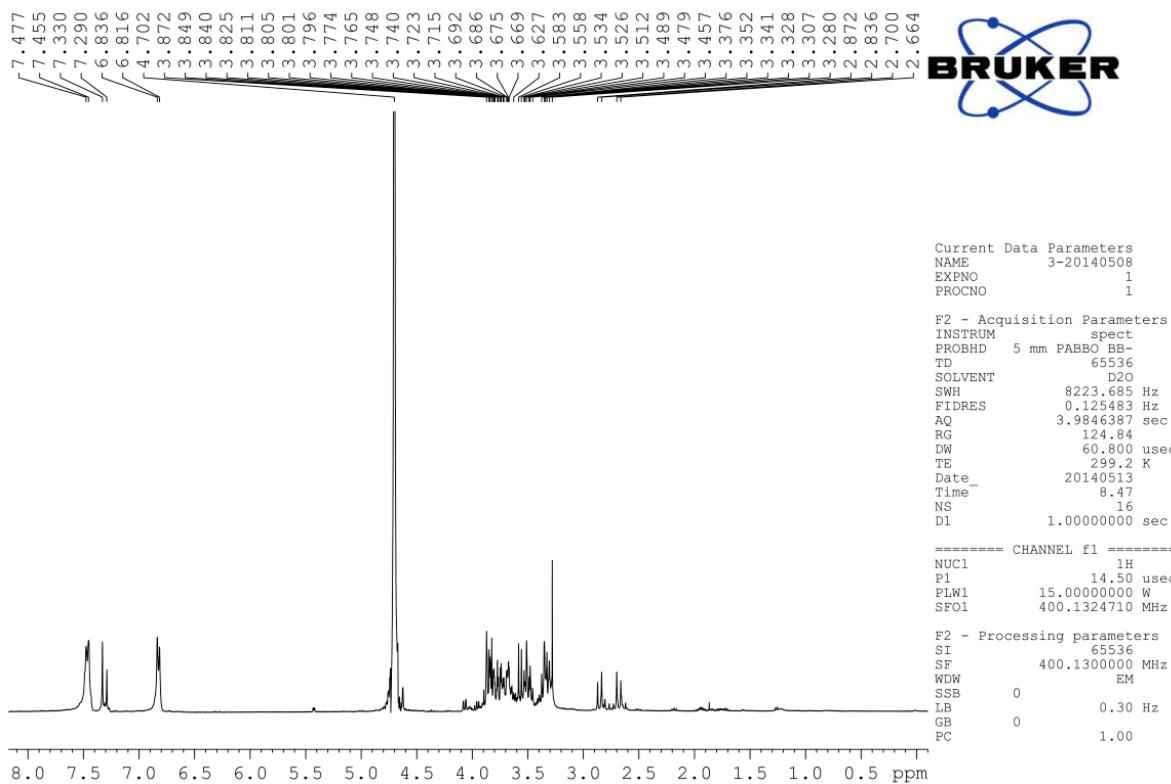


**Figure S10.** IR spectrum of hydroxysafflor yellow C (**2**)

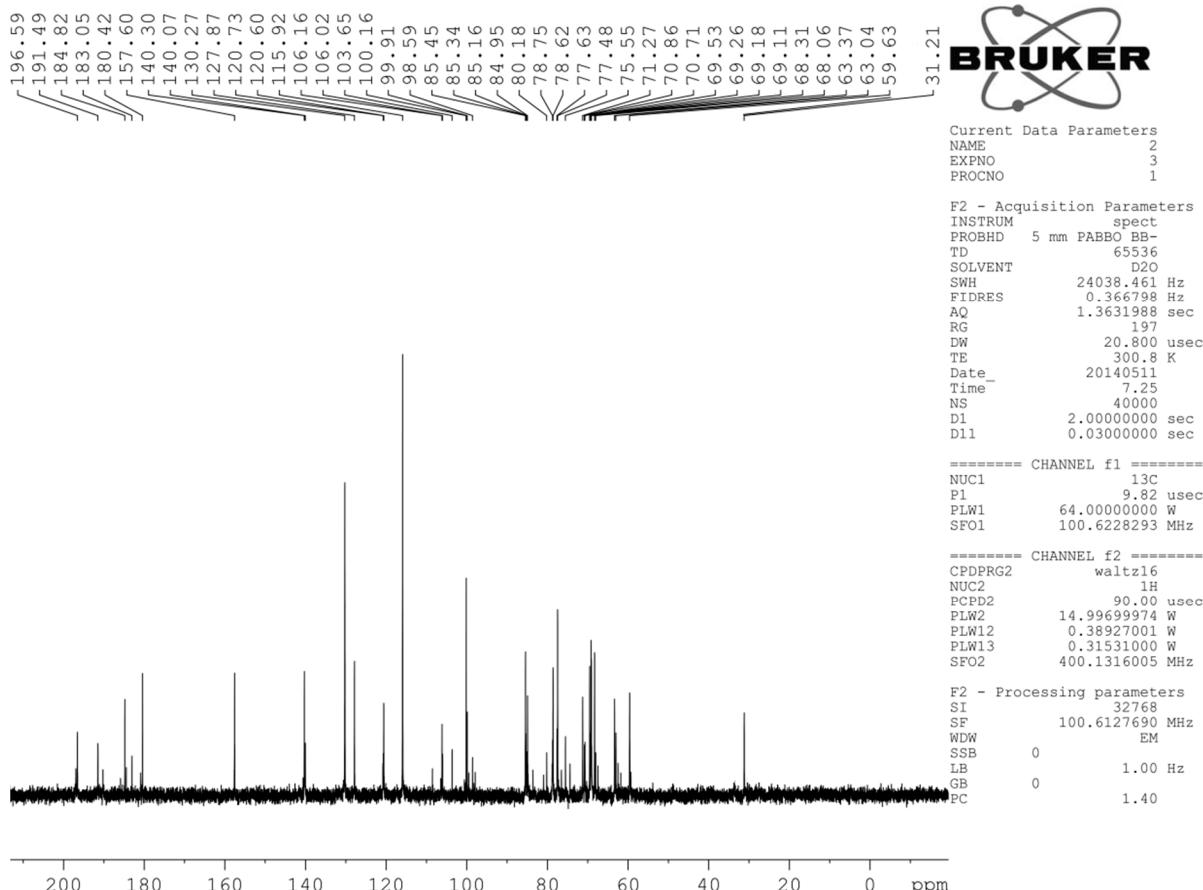


**Figure S11.** ESI spectrum of hydroxysafflor yellow C (**2**) in MeOH.**Figure S12.** HRESIMS spectrum of hydroxysafflor yellow C (**2**) in MeOH.

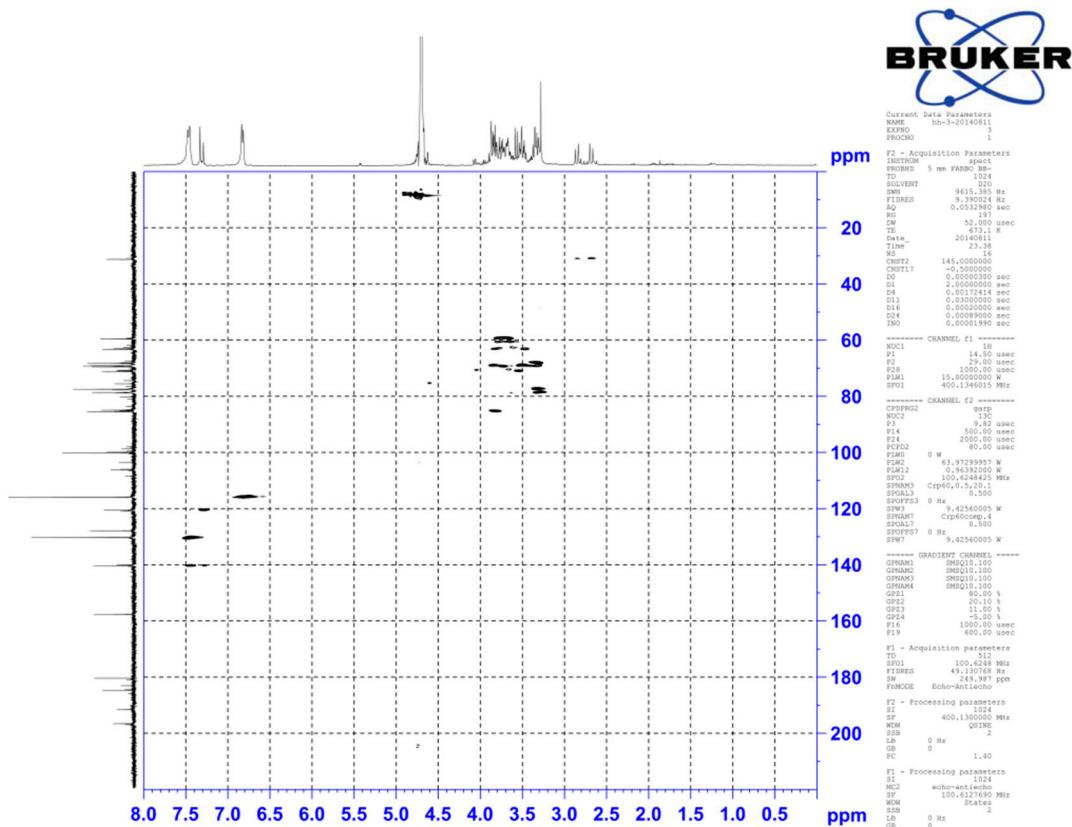
**Figure S13.**  $^1\text{H}$ -NMR spectrum of hydroxysafflor yellow C (**2**) in  $\text{D}_2\text{O}$ .



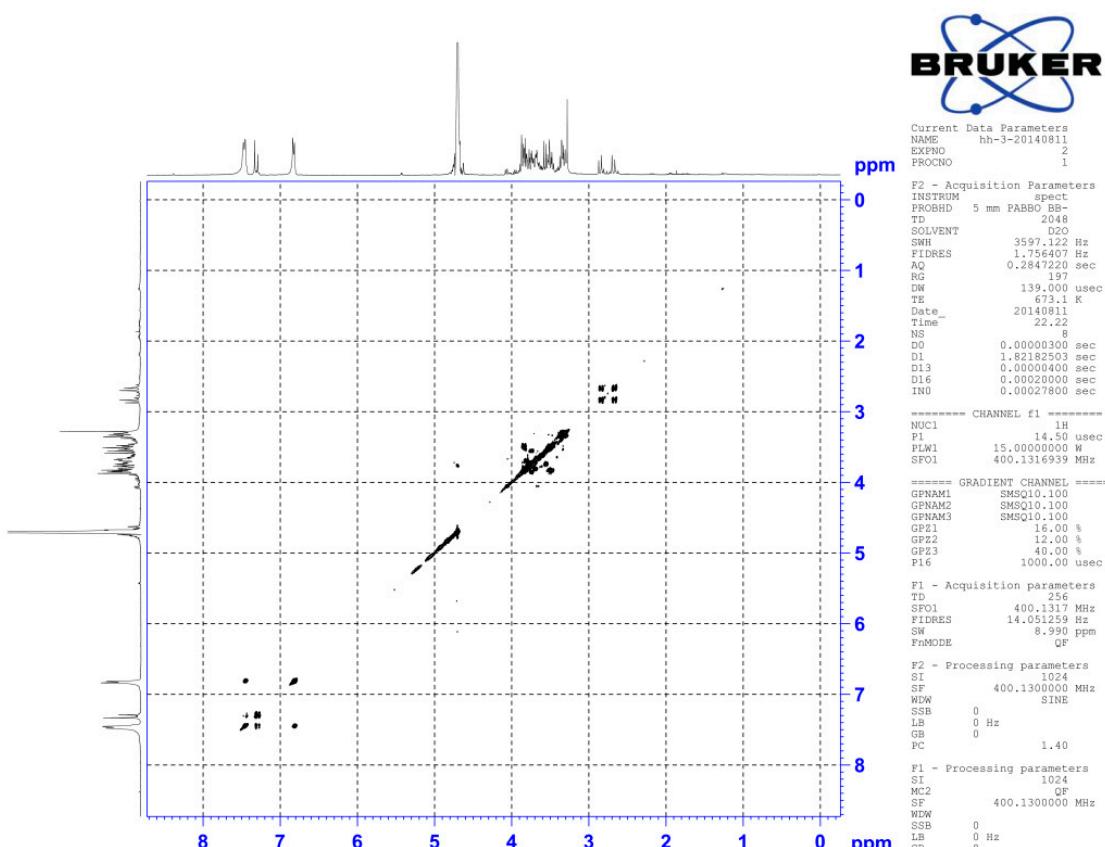
**Figure S14.**  $^{13}\text{C}$ -NMR spectrum of hydroxysafflor yellow C (**2**) in  $\text{D}_2\text{O}$ .



**Figure S15.** HSQC NMR spectrum of hydroxysafflor yellow C (**2**) in D<sub>2</sub>O.



**Figure S16.** COSY NMR spectrum of hydroxysafflor yellow C (**2**) in D<sub>2</sub>O.



**Figure S17.**  $^1\text{H}$  NMR spectrum of saffloquinoside C (**4**) in  $\text{D}_2\text{O}$ .

