Supporting information

Preparation of High Performance Monoazo Disperse Dyes Bearing Ester Group Based on Benzisothiazole and Their Dyeing Performance on Polyester Fabrics

Xiyu Song,*[a,b] Chuang Dai [a], Mingda Li, [a] Min Li, [c] Liu Hu, [d] Yu Wang, [a] Aiqin Hou, [b] Hongfei Qian [a]

a. *Key Laboratory of Clean Dyeing and Finishing Technology of Zhejiang Province, Shaoxing University, Shaoxing 312000, P R China*

b. *College of Chemistry and Chemical Engineering, Donghua University, Shanghai 201620, P R China*

c. *College of Textile and Garment, Nantong University, Nantong 226019, P R China*

d. *Engineering Research Center for Eco-Dyeing and Finishing of Textiles Ministry of Education, Zhejiang Sci-Tech University, Hangzhou 310018, P R China*

* *Corresponding author. E-mail address: xiyusong@usx.edu.cn (Xiyu Song)*
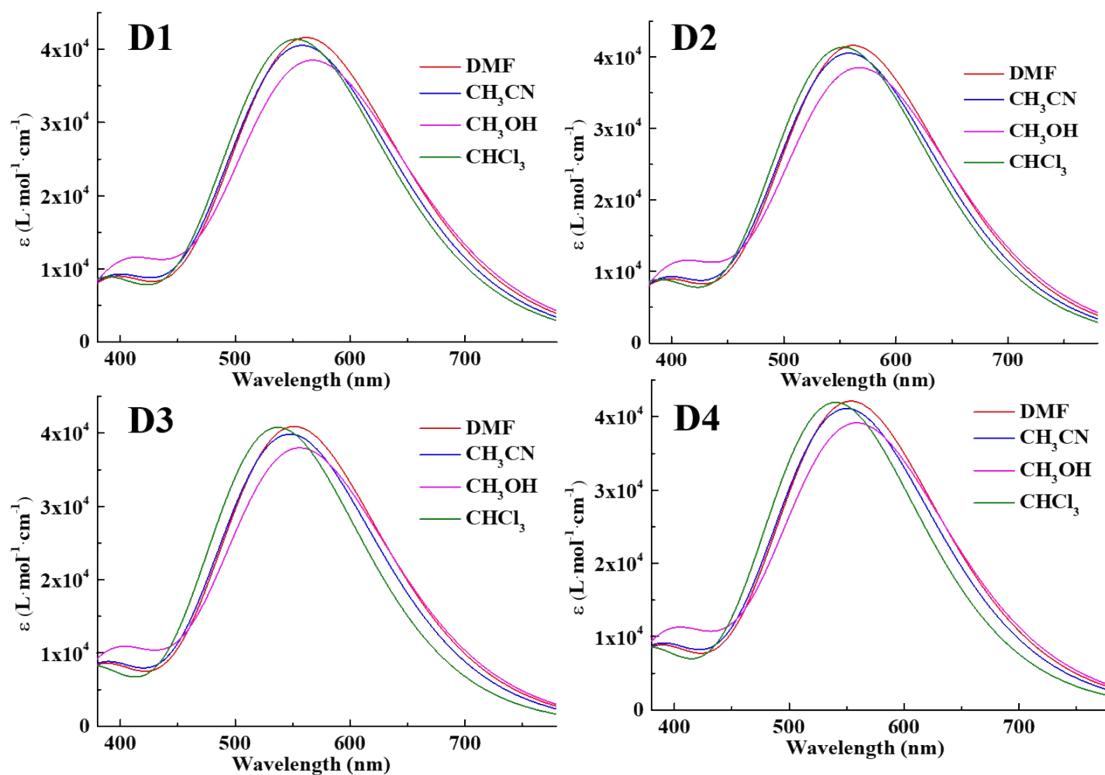
Fig. S1. Simulated absorption spectrum at PBE0/TZVP level in different solvents for D1-D4
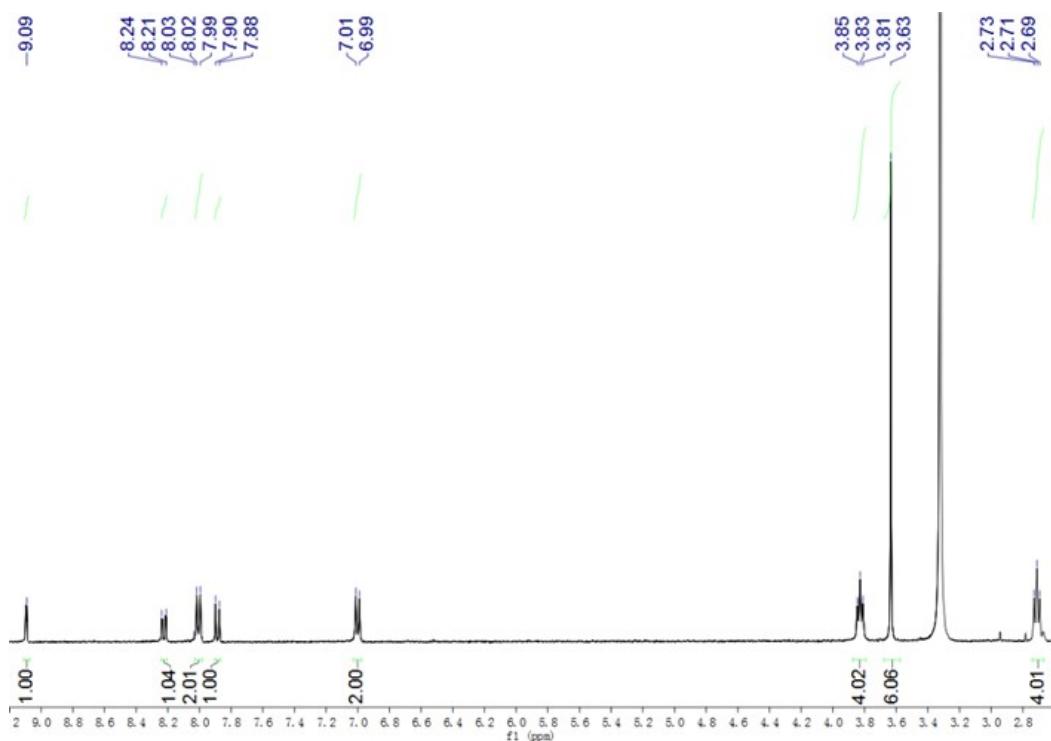

Fig. S2. ^{1}H-NMR spectrum of D1
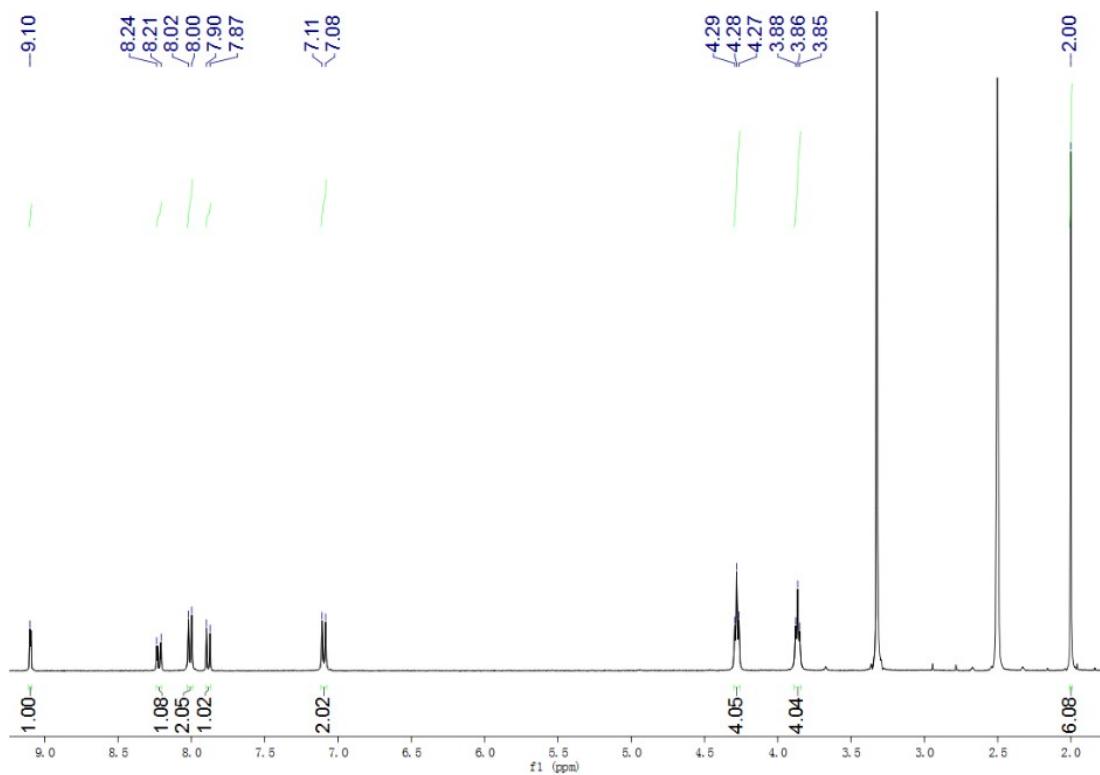
Fig. S3. ¹H-NMR spectrum of D2
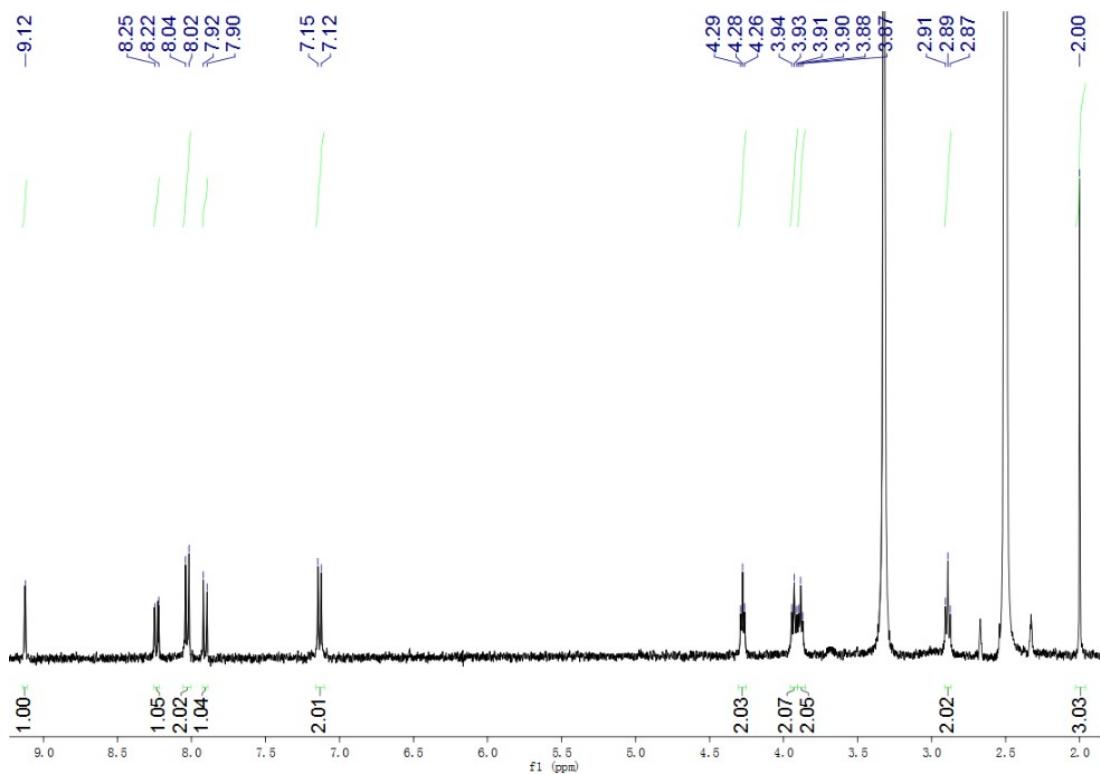
**Fig. S4. ¹H-NMR spectrum of D3**
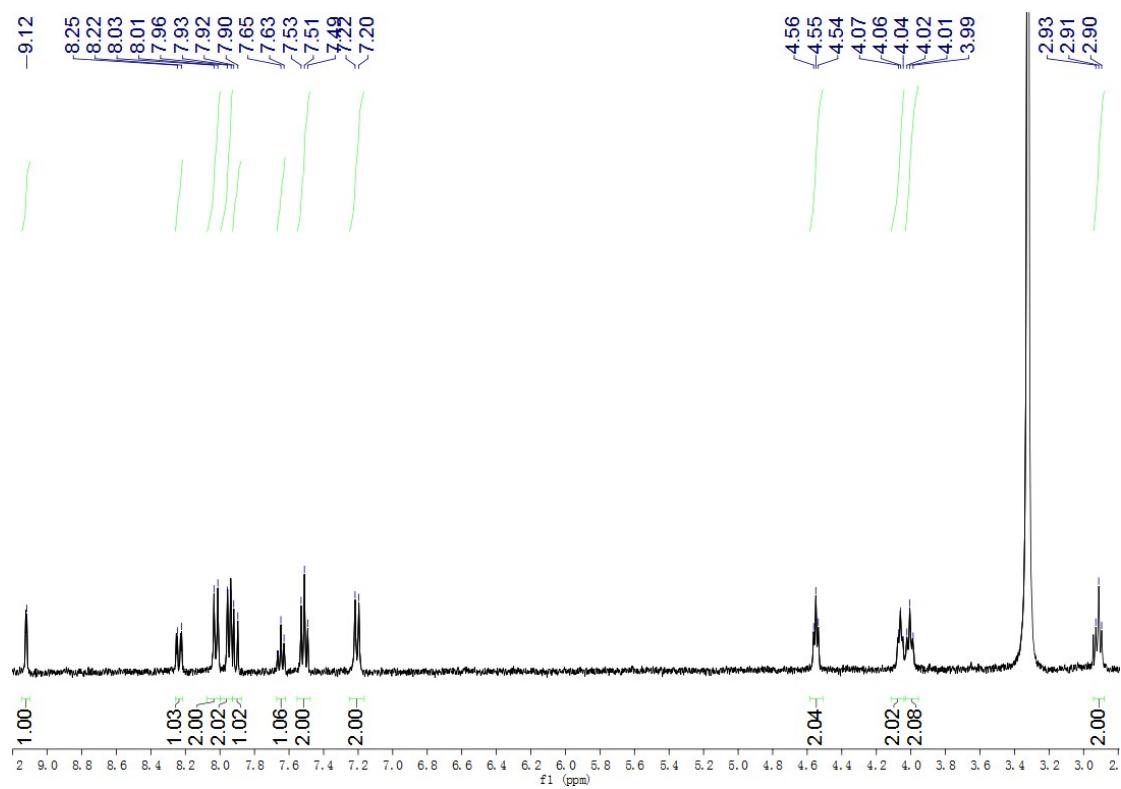
Fig. S5. ¹H-NMR spectrum of D4
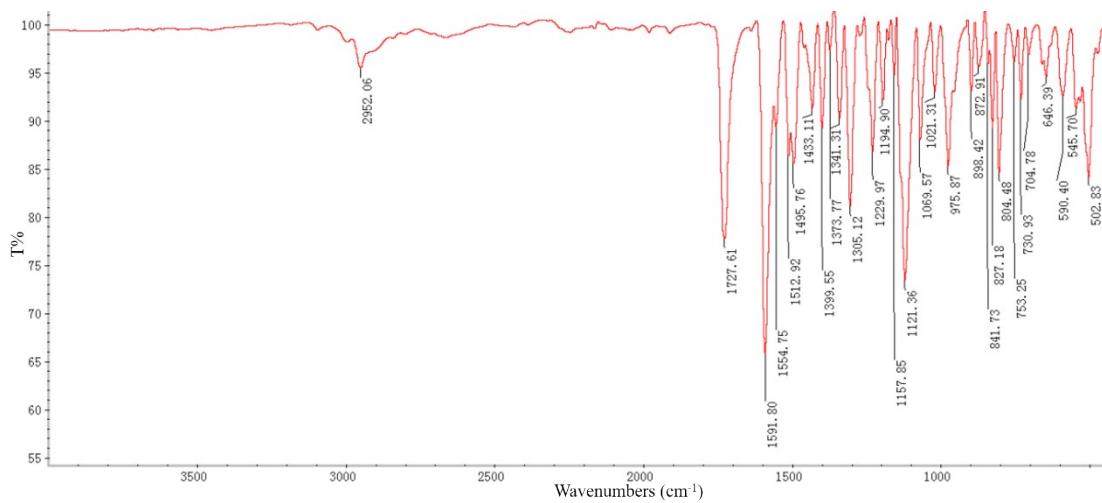

Fig. S6. FTIR spectrum of D1
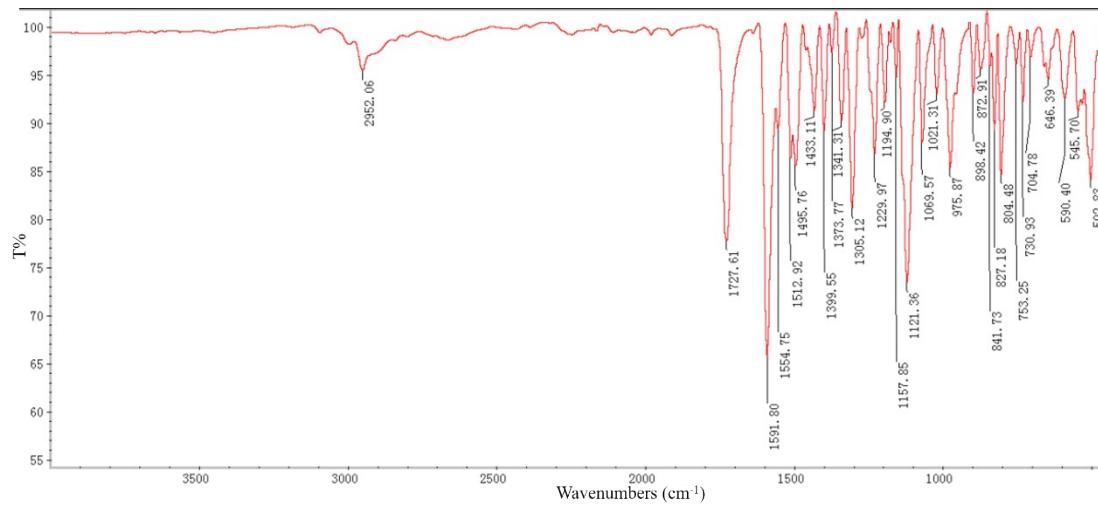
**Fig. S7. FTIR spectrum of D2**
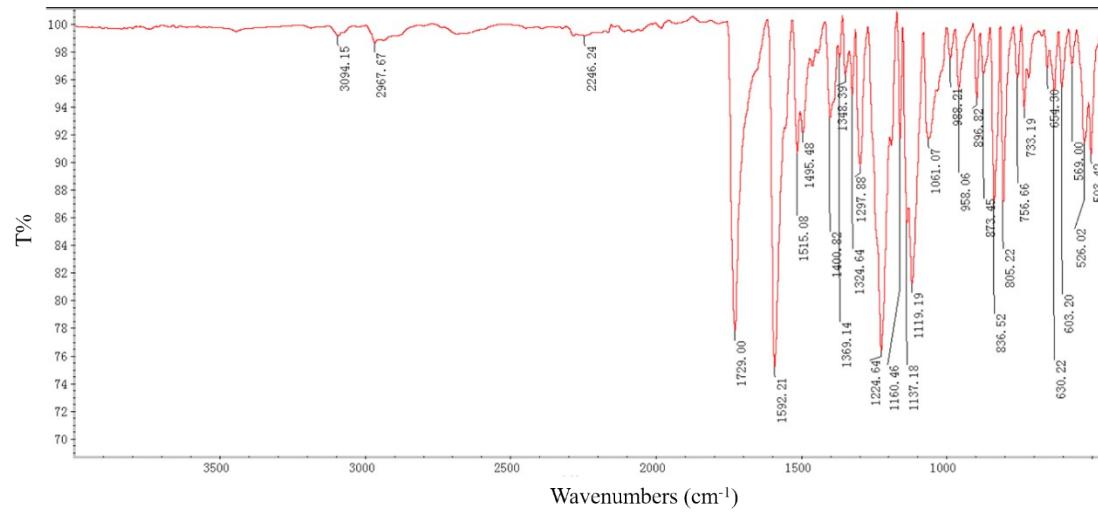
**Fig. S8. FTIR spectrum of D3**
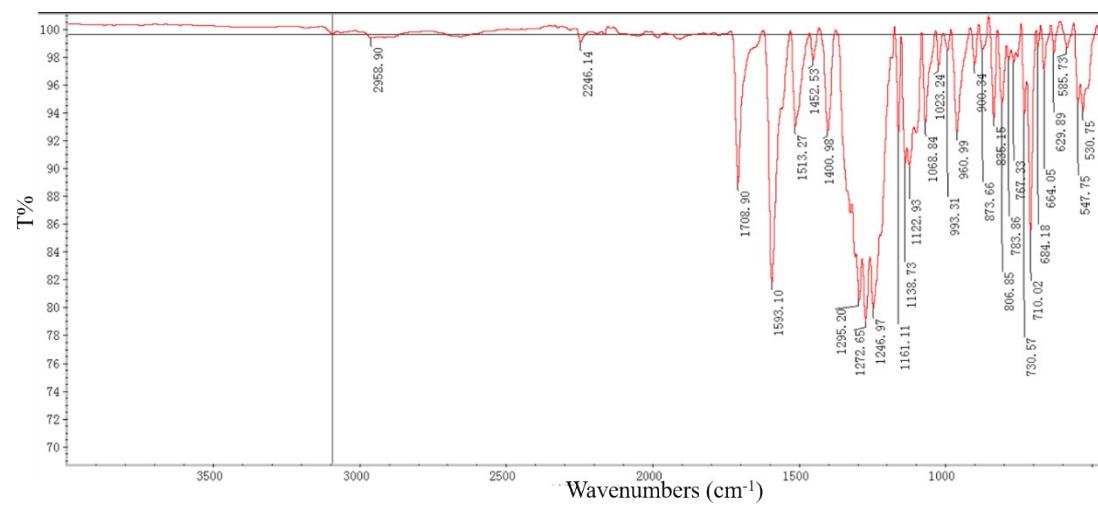
Fig. S9. FTIR spectrum of D4
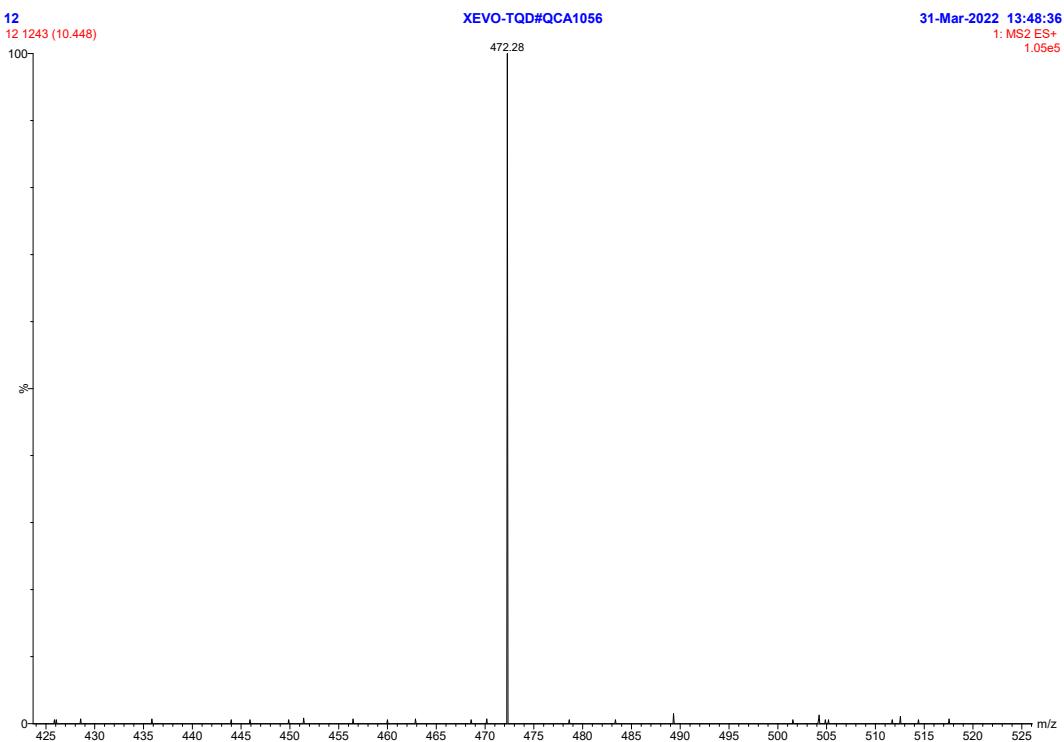
Fig. S10. MS spectrum of D1
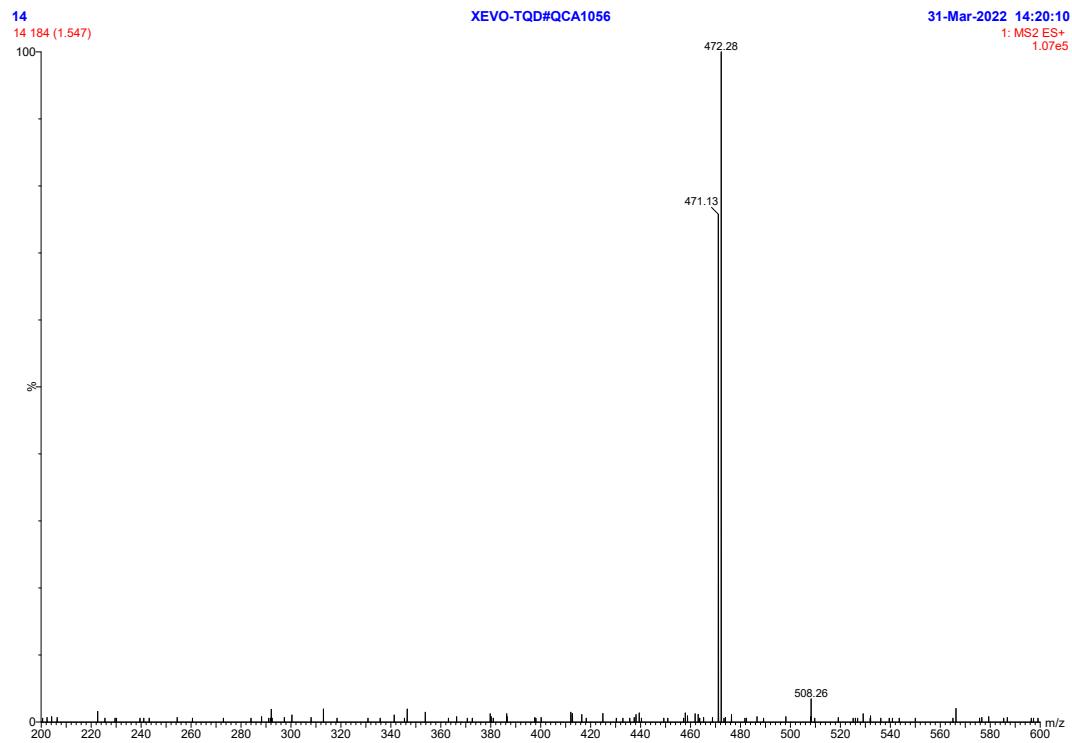
**Fig. S11. MS spectrum of D2**
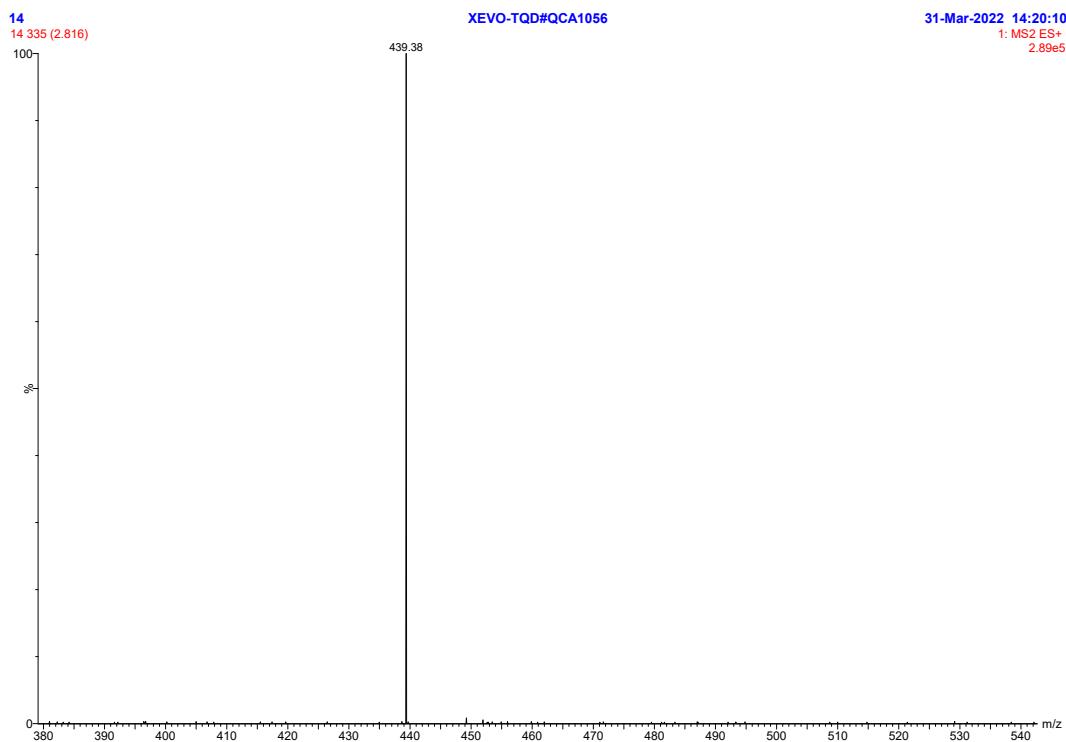
Fig. S12. MS spectrum of D3
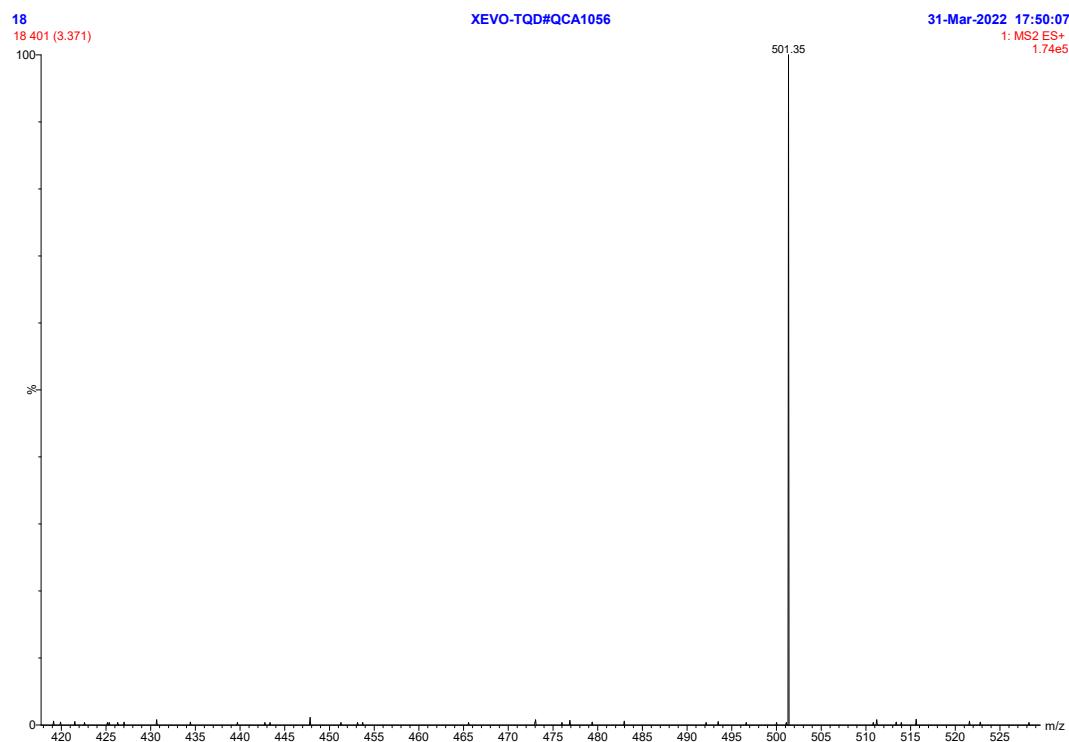

Fig. S13. MS spectrum of D4
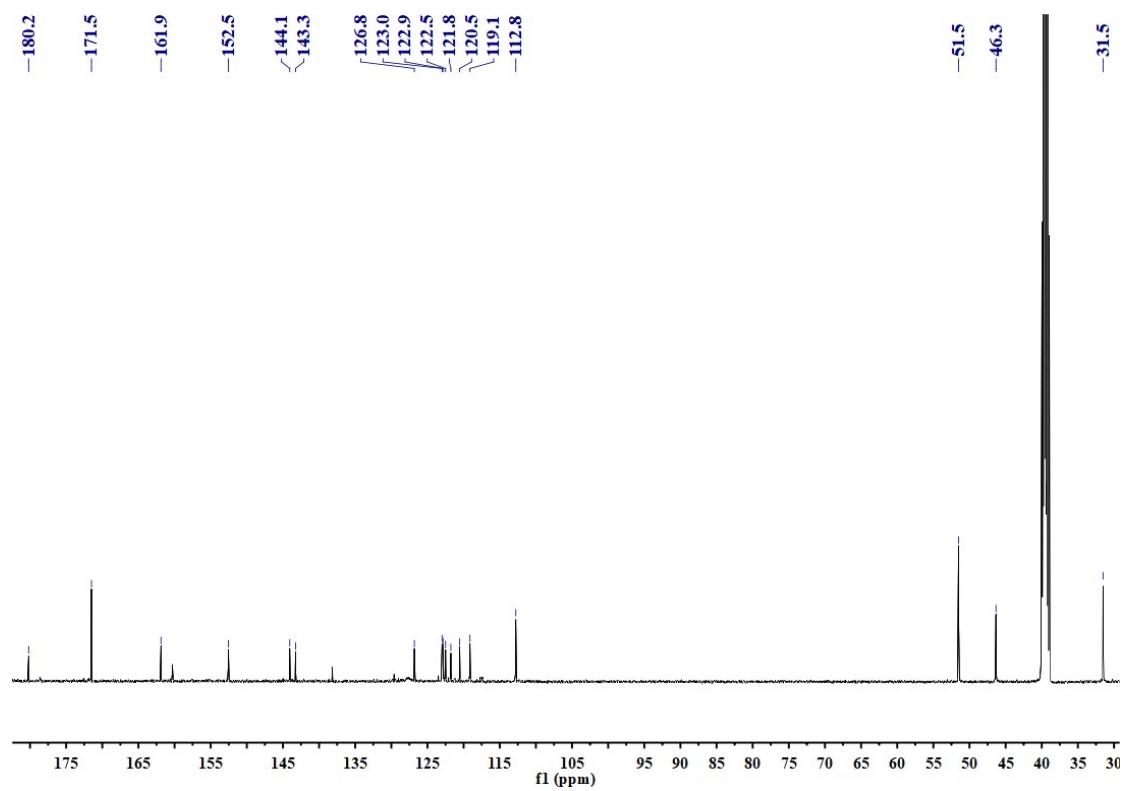
Fig. S14. ^{13}C-NMR spectrum of D1
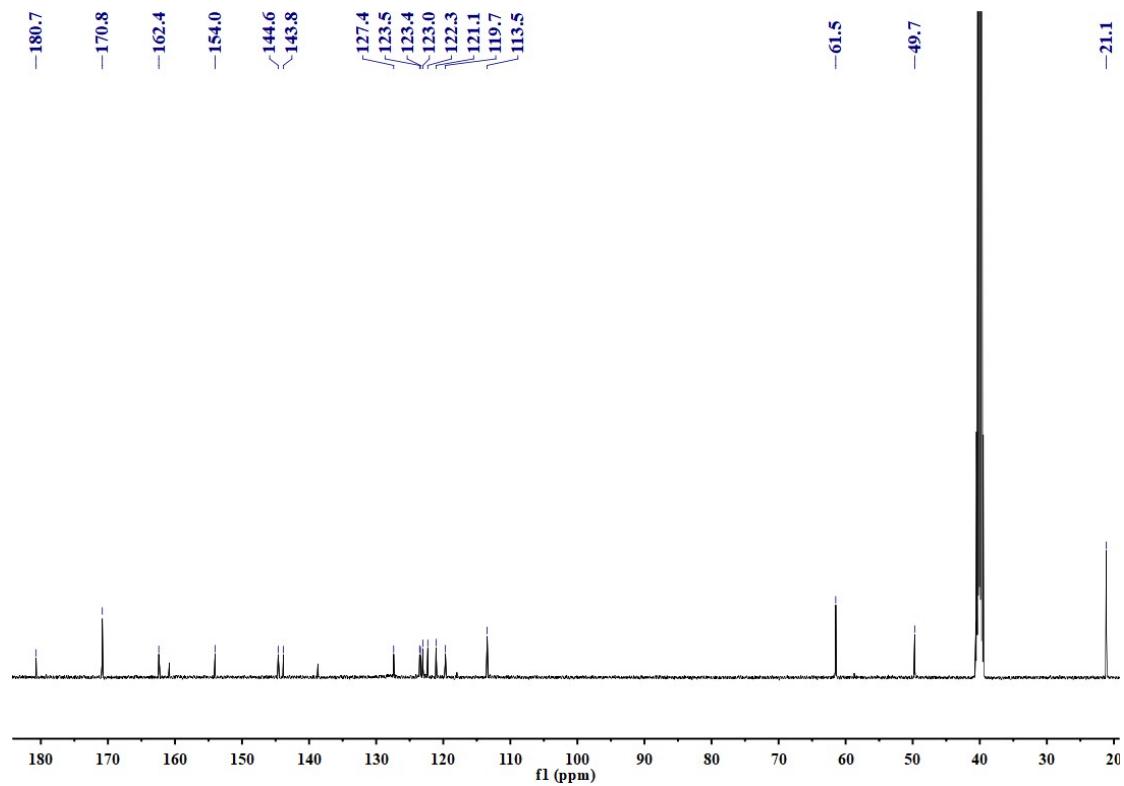
Fig. S15. ^{13}C-NMR spectrum of D2
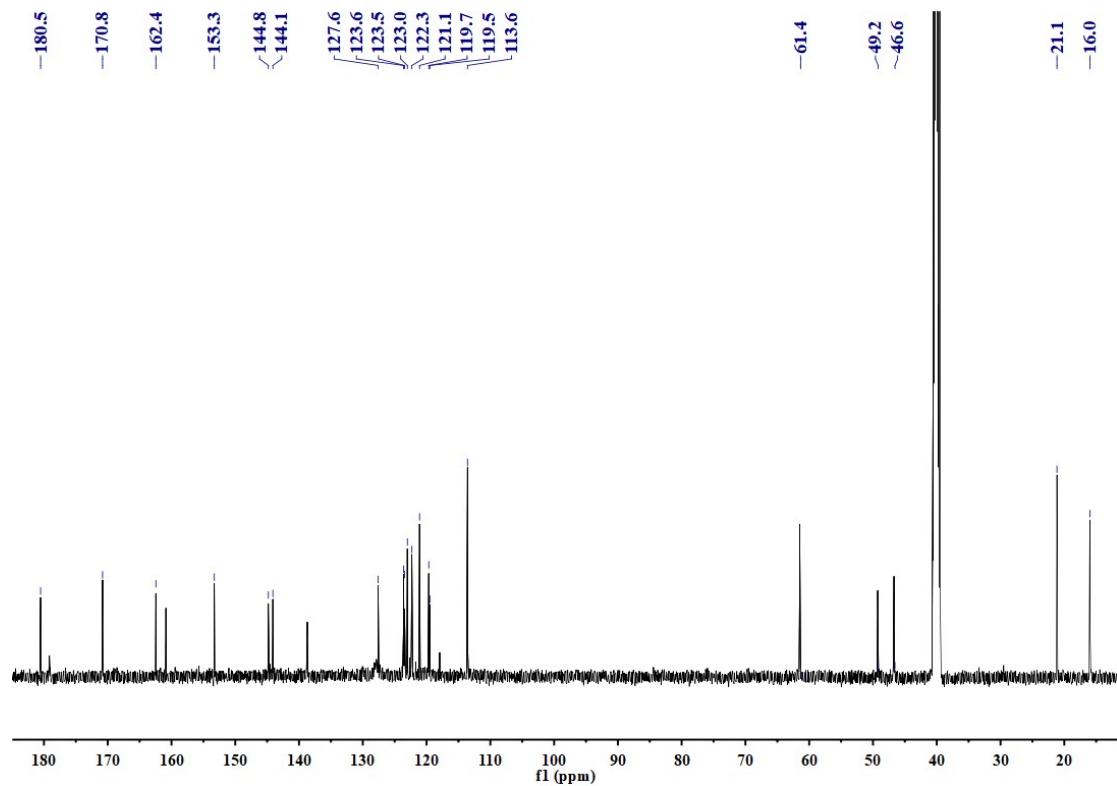
Fig. S16. ¹³C-NMR spectrum of D3
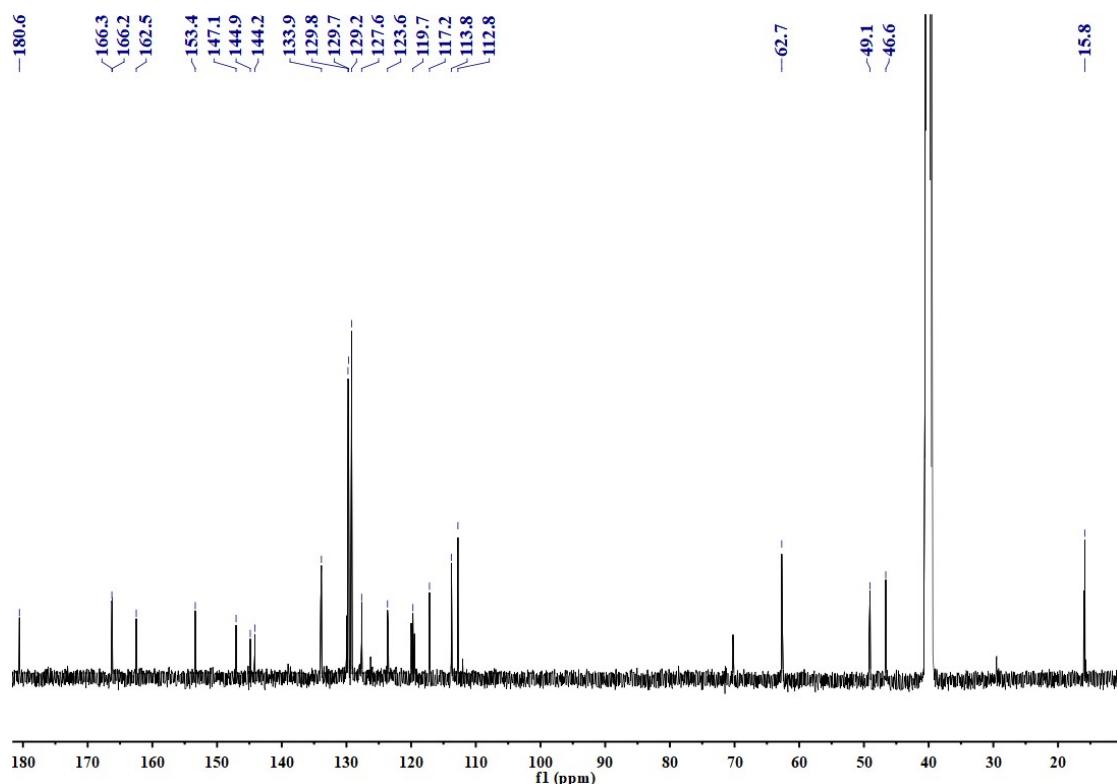
Fig. S17. ¹³C-NMR spectrum of D4