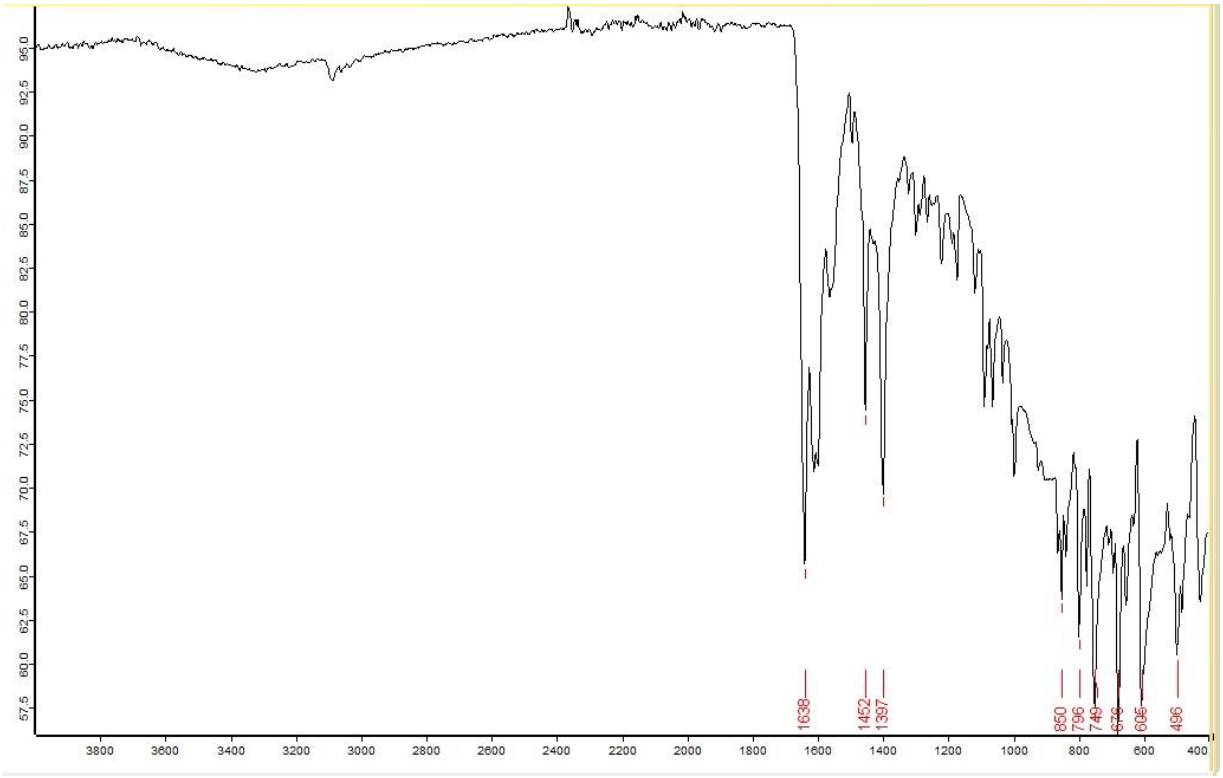

Figure S1. IR spectrum of Al-5HF

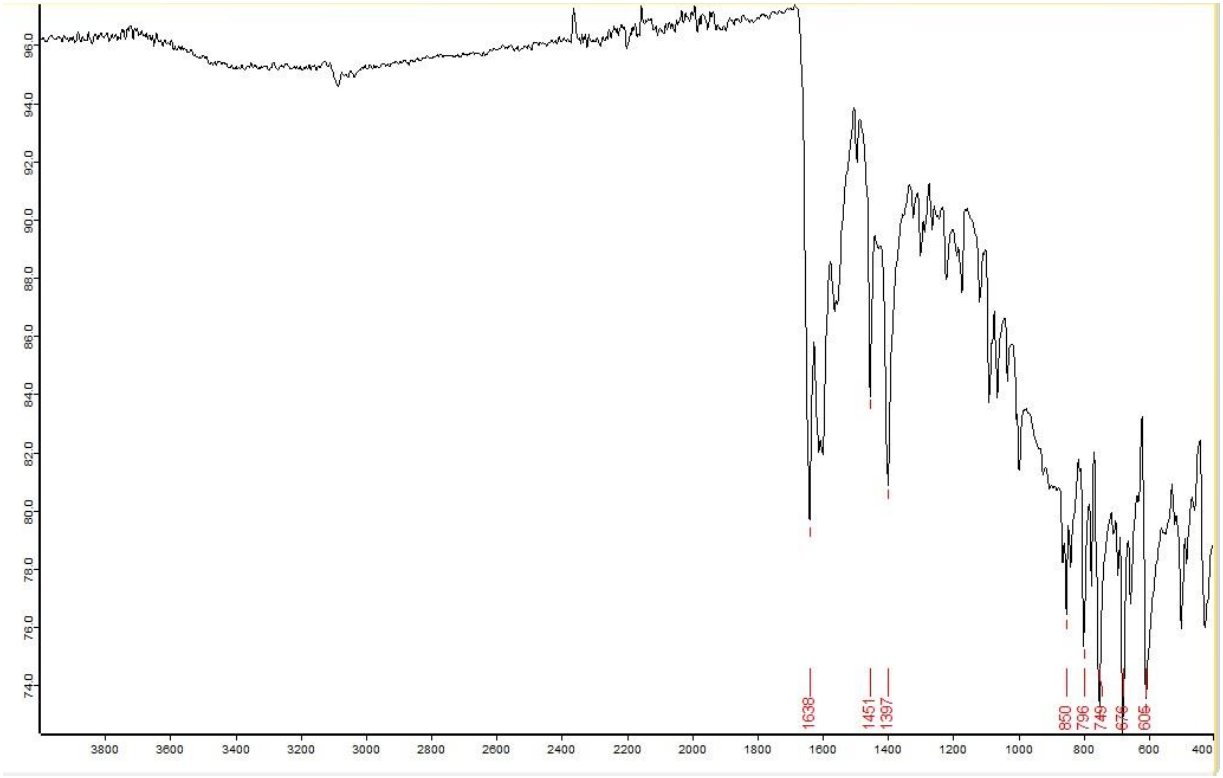

Figure S2. IR spectrum of Ga-5HF

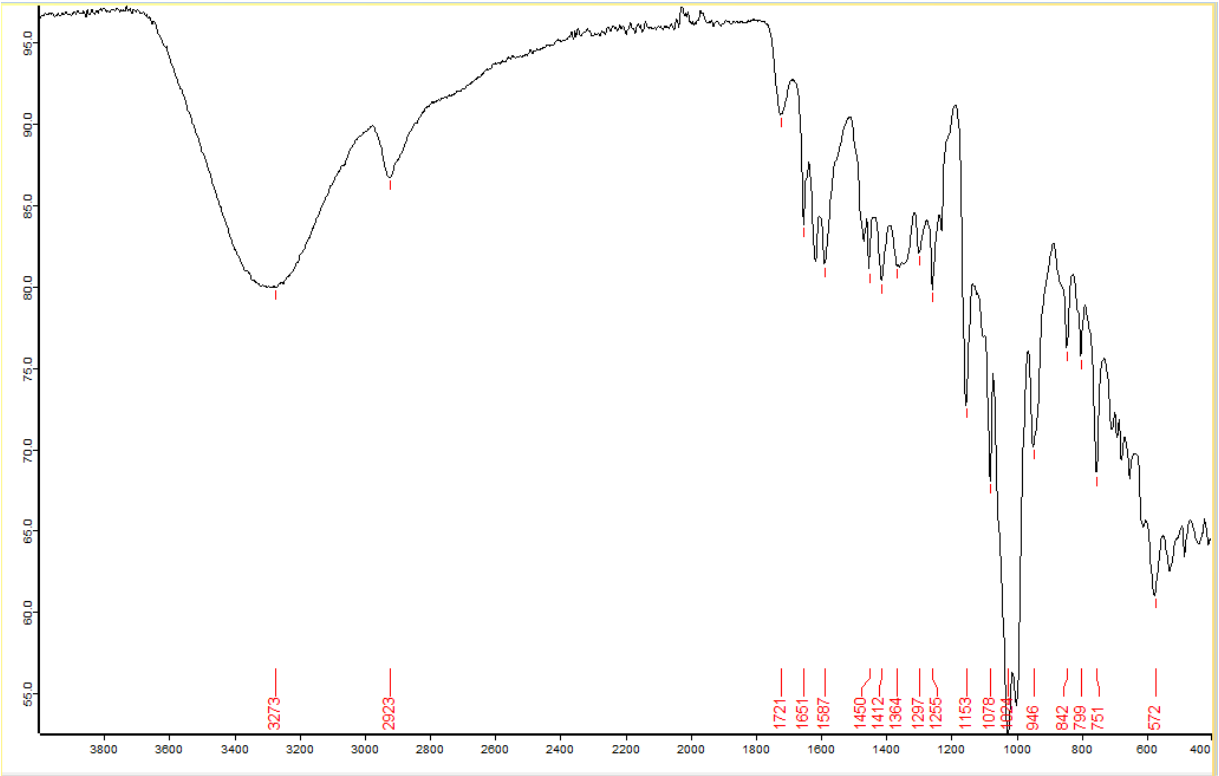

Figure S3. IR spectrum of Al-5HF-PMDACD1

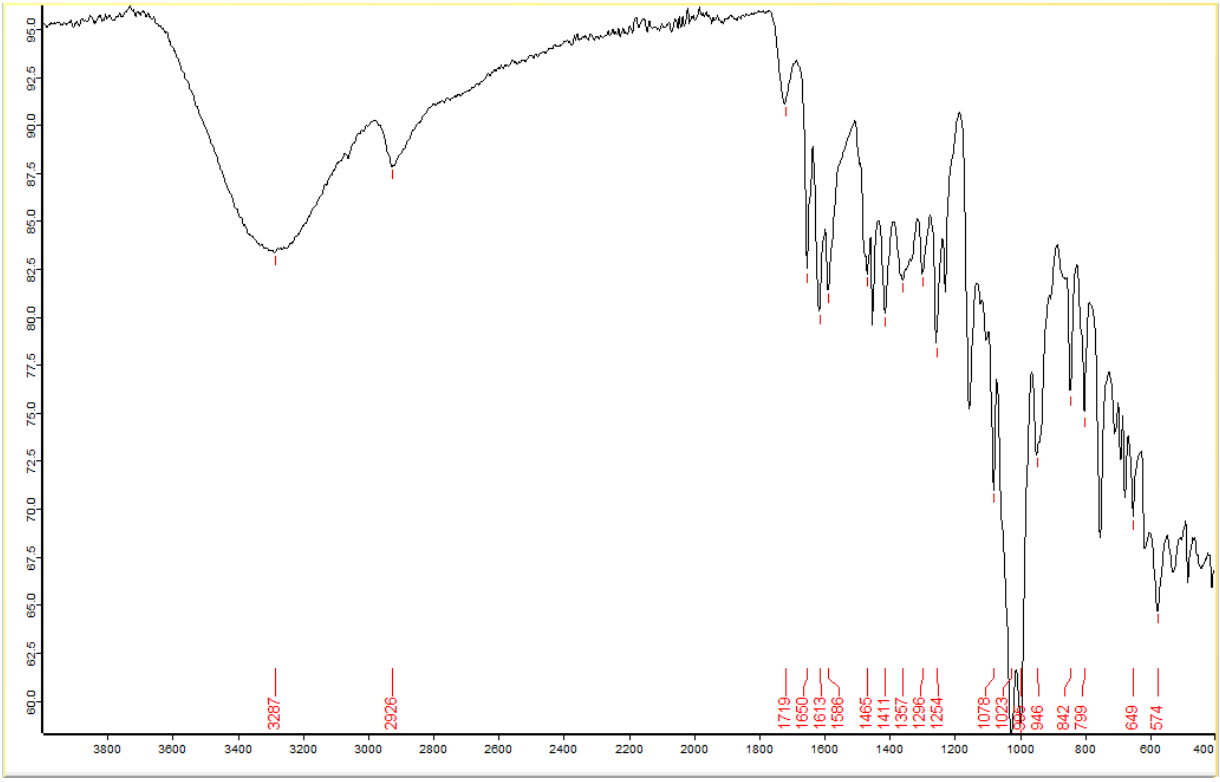

Figure S4. IR spectrum of Ga-5HF-PMDACD1

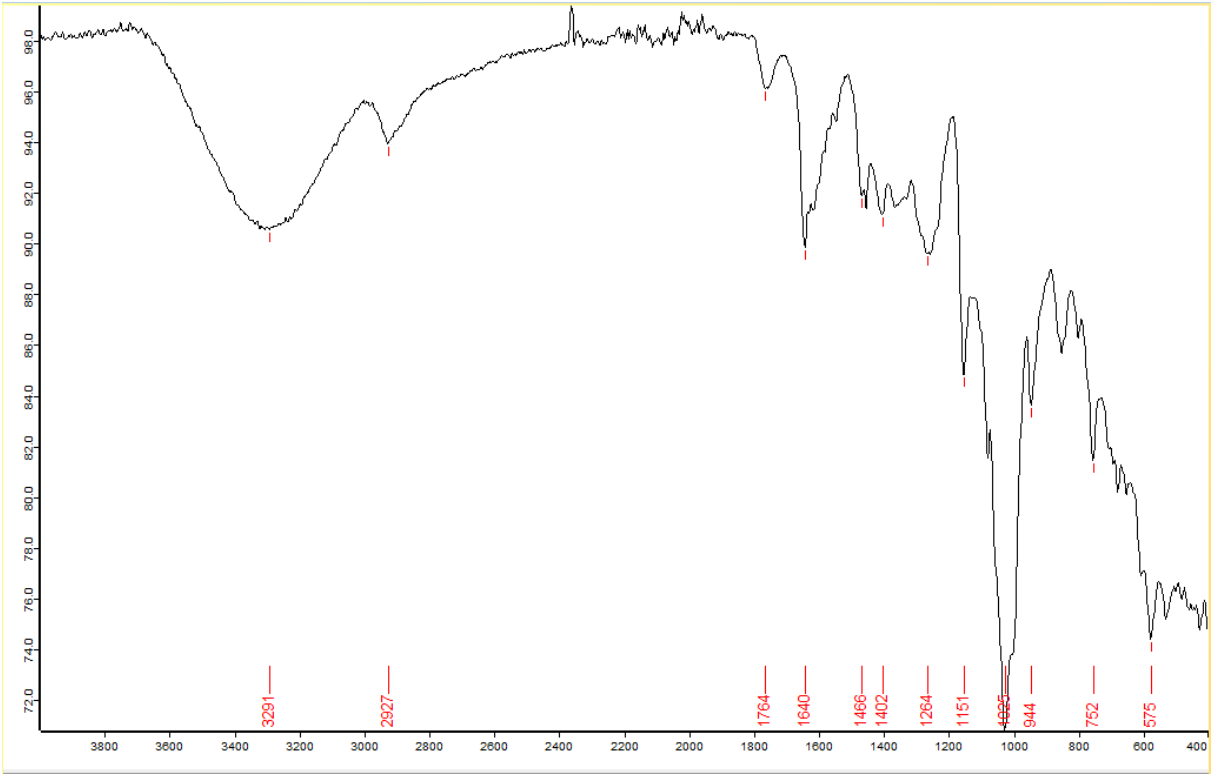

Figure S5. IR spectrum of Al-5HF-DPCNS1

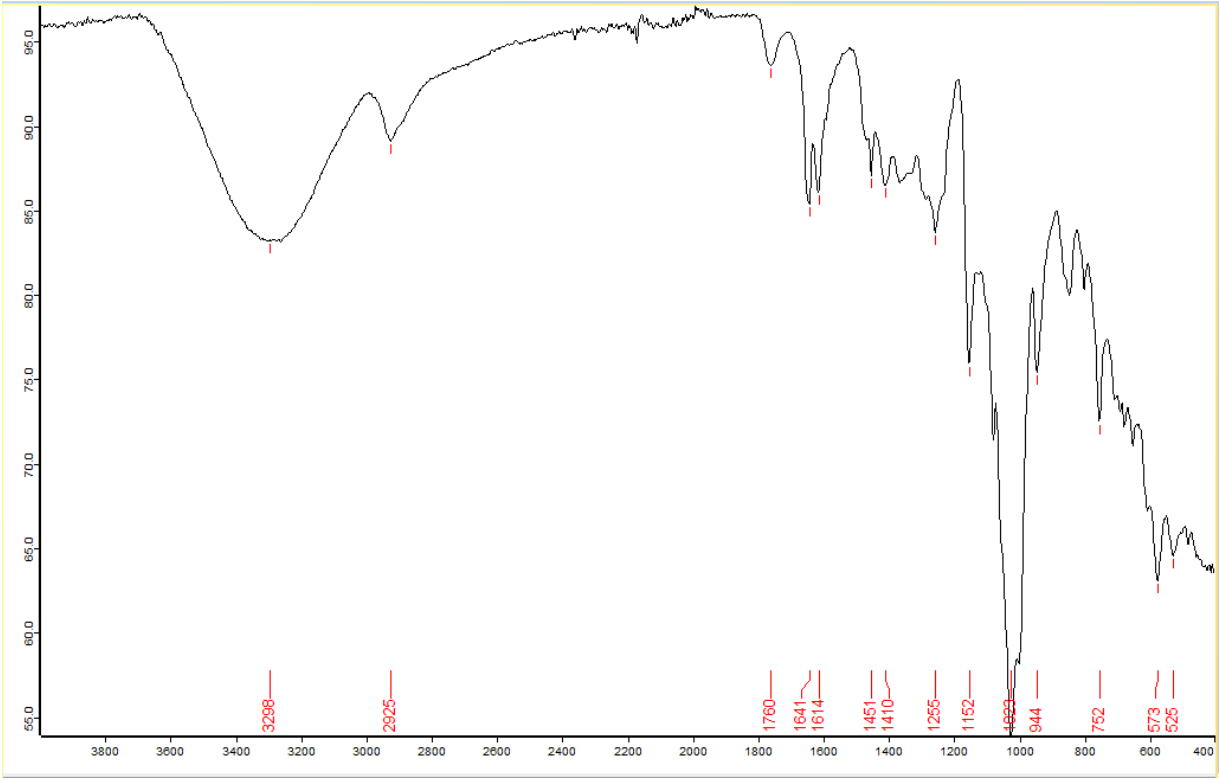

Figure S6. IR spectrum of Ga-5HF-DPCNS1

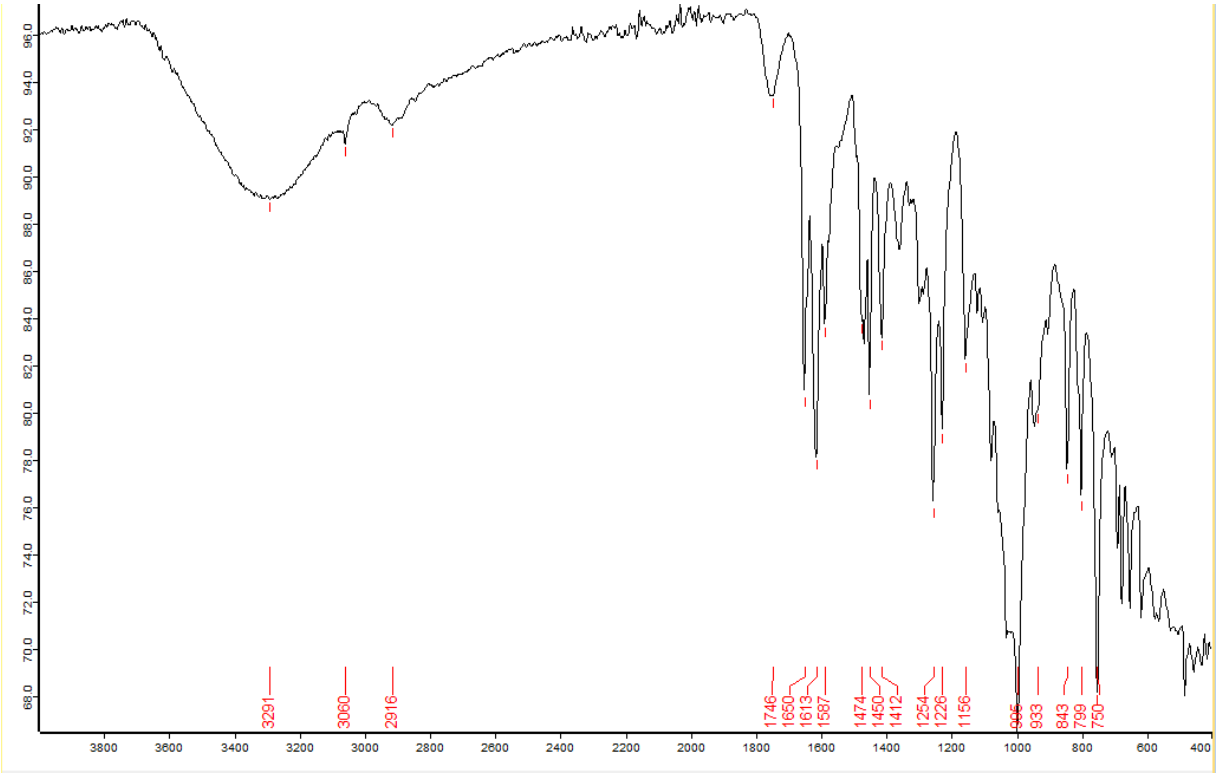

Figure S7. IR spectrum of Al-5HF-DPCNS2

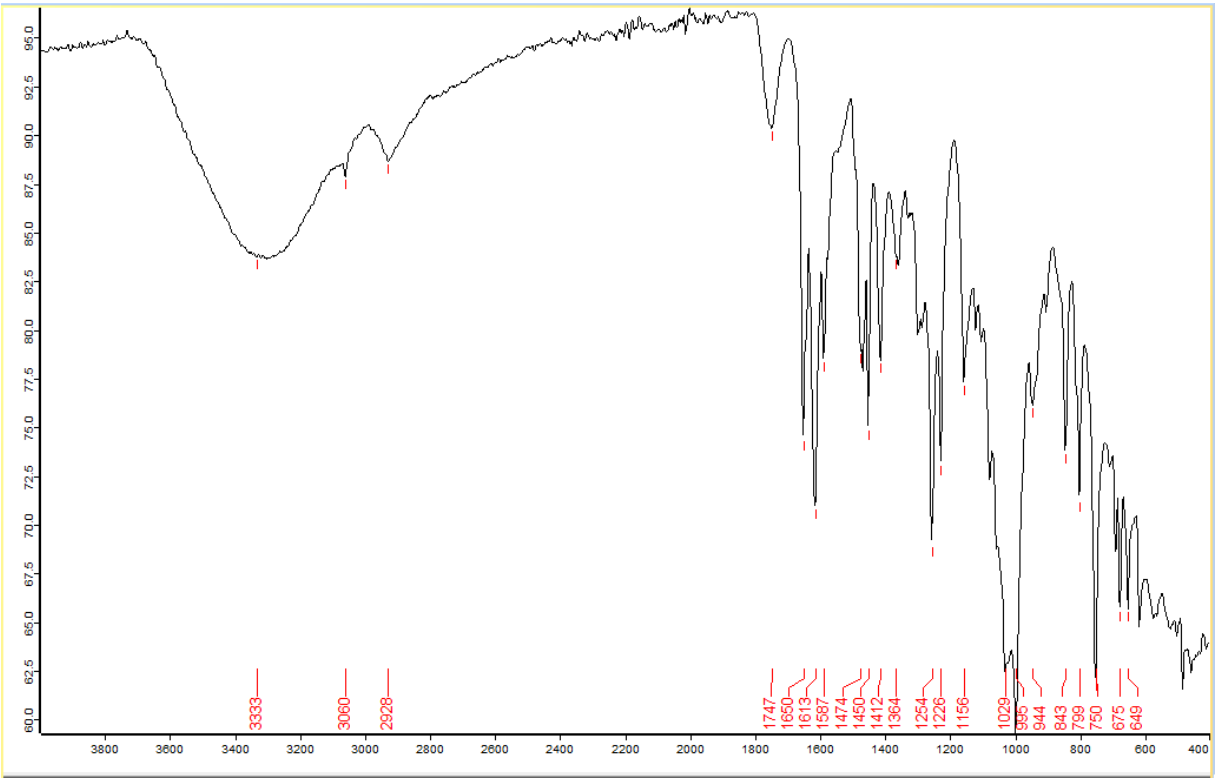

Figure S8. IR spectrum of Ga-5HF-DPCNS2