

**Electrodeposited Molecularly Imprinted QCM Sensor Sensitized
with AuNPs and rGO Material for Highly Selective and Sensitive
Detection of Amantadine**

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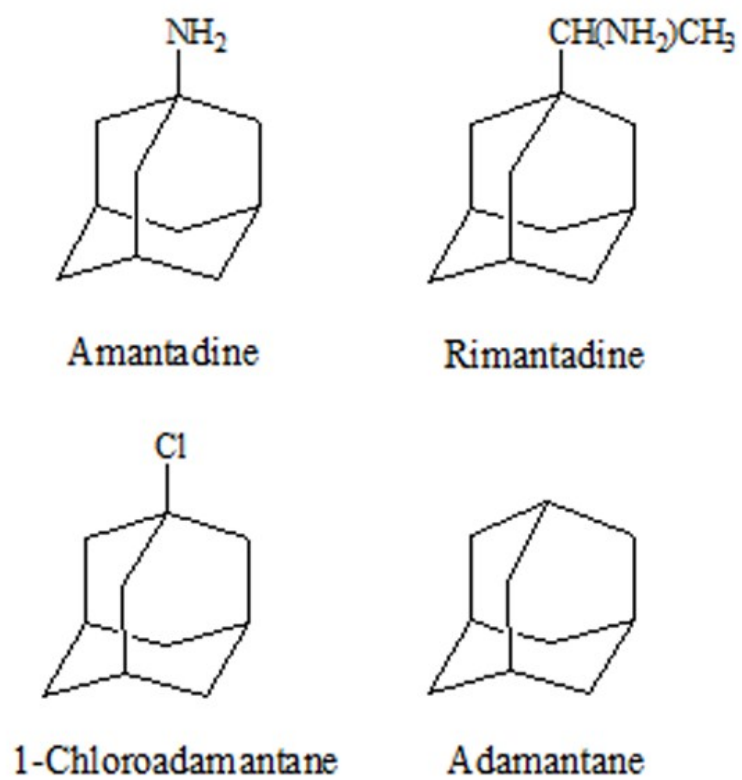


Fig.S1. The Chemical structure of AM and analogues.

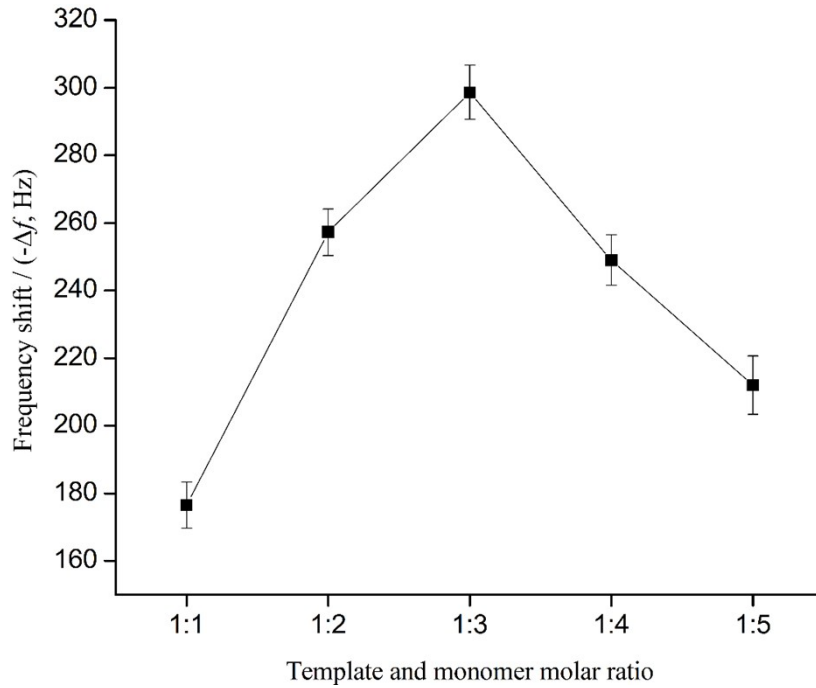


Fig.S2. Frequency shift of MIP modified electrodes with different template/monomer molar ratio.

Electrodeposition conditions: solution containing different ratio of *o*-AT and AM (10 mmol L⁻¹), tetrabutylammonium perchlorate (5 mmol L⁻¹) and HCl (10 mmol L⁻¹);

Potential range: 0.2 - 1.4 V; scan rate: 50 mV s⁻¹; scan number: 15. Tested solution:

AM-methanol solution (1.0 × 10⁻³ mmol L⁻¹)

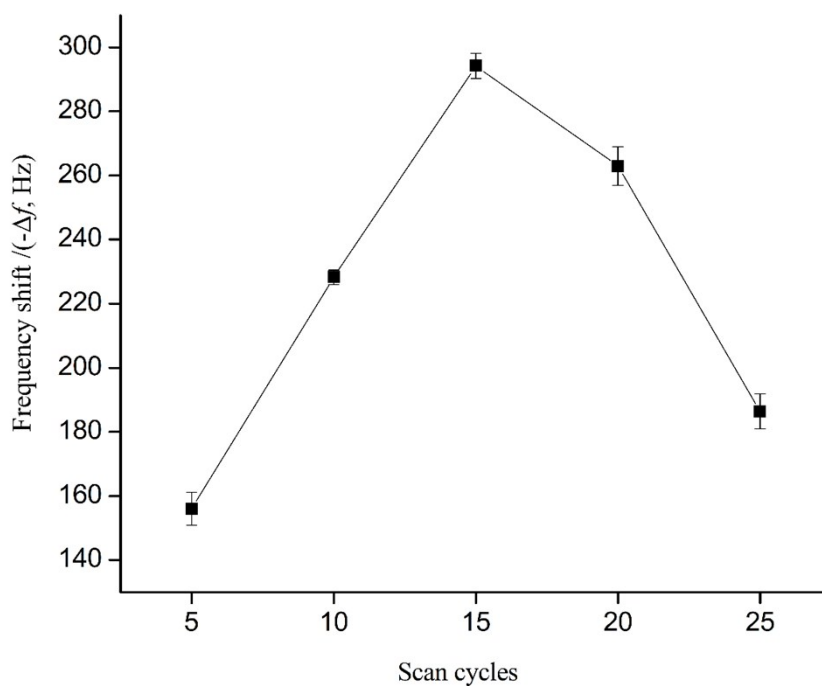


Fig.S3. Frequency shift of the different scanning cycles in electrodeposition process. Electrodeposition conditions: solution containing *o*-AT (30 mmol L⁻¹) and AM (10 mmol L⁻¹), tetrabutylammonium perchlorate (5 mmol L⁻¹) and HCl (10 mmol L⁻¹); Potential range: 0.2 - 1.4 V; scan rate: 50 mV s⁻¹. Tested solution: AM-methanol solution (1.0 × 10⁻³ mmol L⁻¹)