Supplementary information

Pyrimidine based Functional Fluorescent Organic Nanoparticles Probe for Detection of *Pseudomonas Aeruginosa*

Gaganpreet Kaur[a†], Tilak Raj[b†], Navneet Kaur[a*], and Narinder Singh[b*]

[a]Centre for Nanoscience & Nanotechnology (UIEAST), Panjab University Chandigarh 160014, India. E-mail: navneetkaur@pu.ac.in, Tel: +911722534464

[b]Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India. E-mail: nsingh@iitrpr.ac.in, Tel: +911881242176, Fax: +911881223395

*Corresponding authors.

† Both authors have contributed equally.

Table of contents
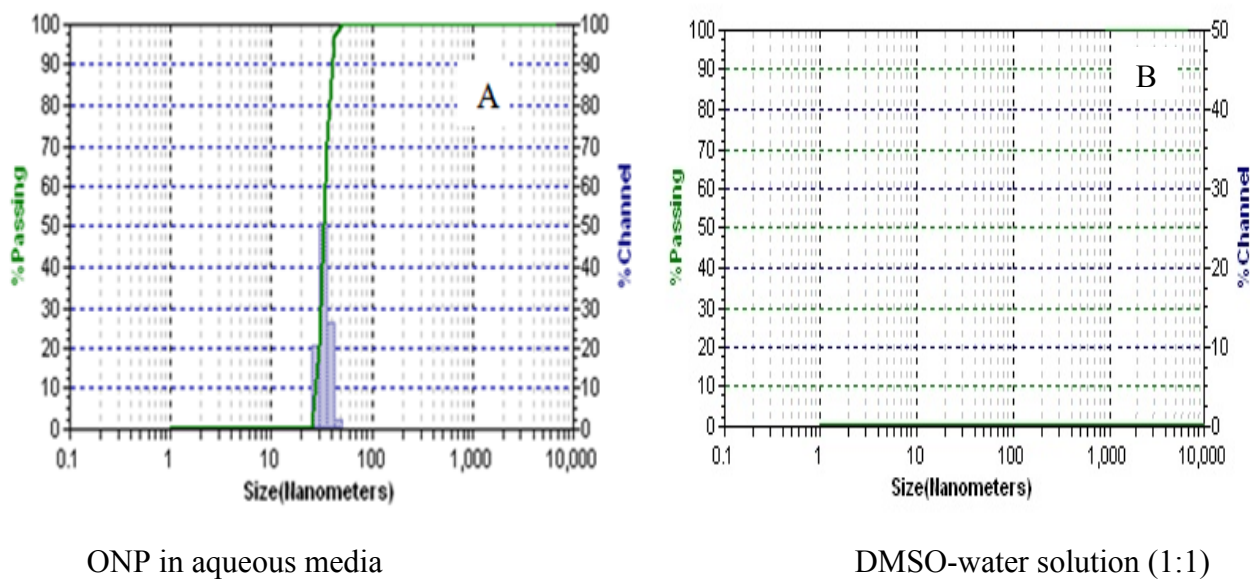
Figure S1. Fluorescence spectra of **FONPs** at different pH values.
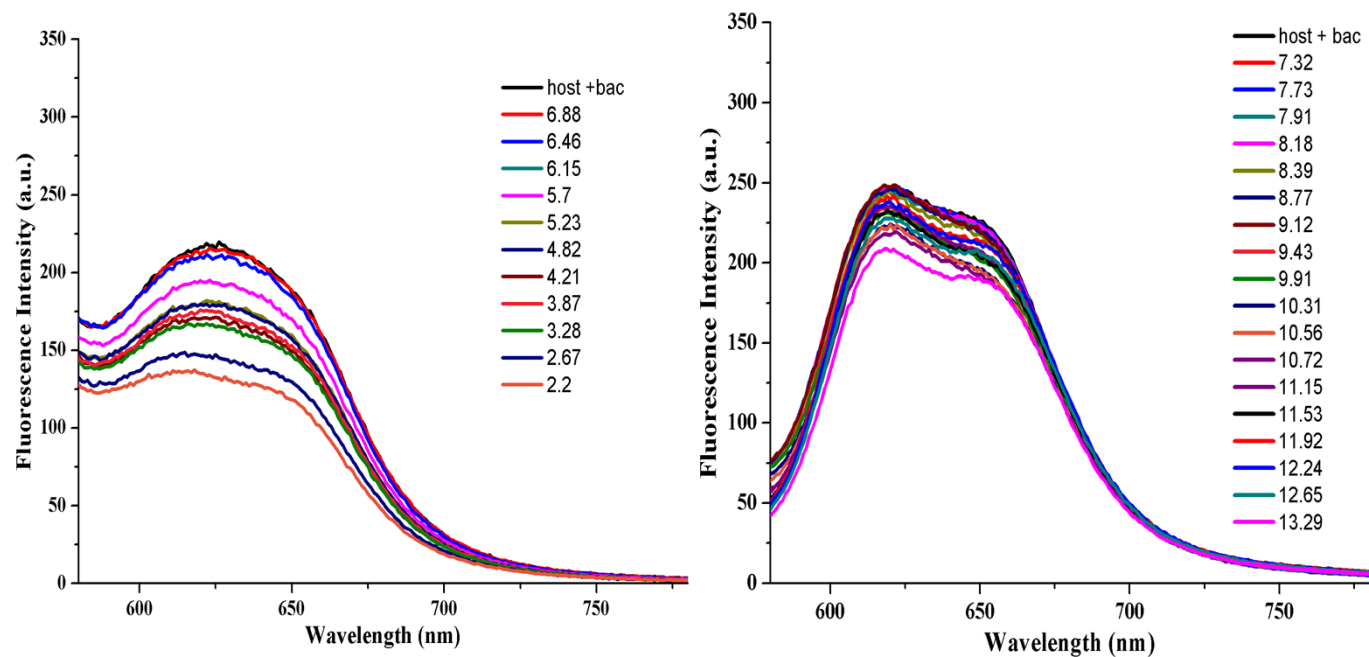
Figure S2. Fluorescence spectra of **FONPs** on addition of *Pseudomonas Aeruginosa* at different pH values.
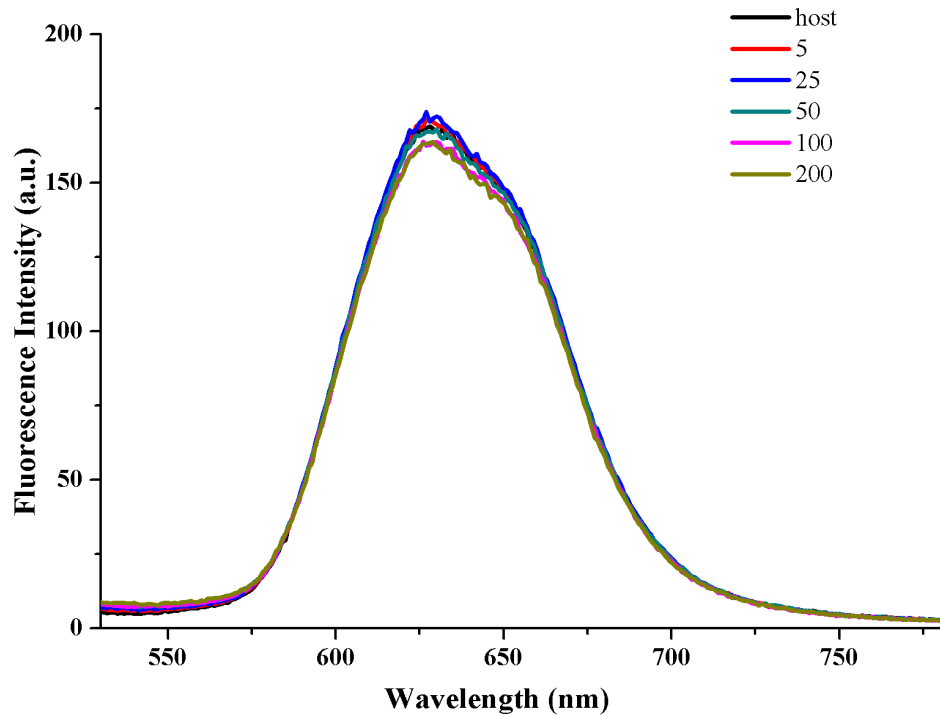
Figure S3. Fluorescence spectra of **FONPs** at different concentrations of tetrabutylammonium perchlorate to evaluate the salt effect.

ONP in aqueous media   DMSO-water solution (1:1)

Figure S4. Effect of varying DMSO- water content on the **FONPs**
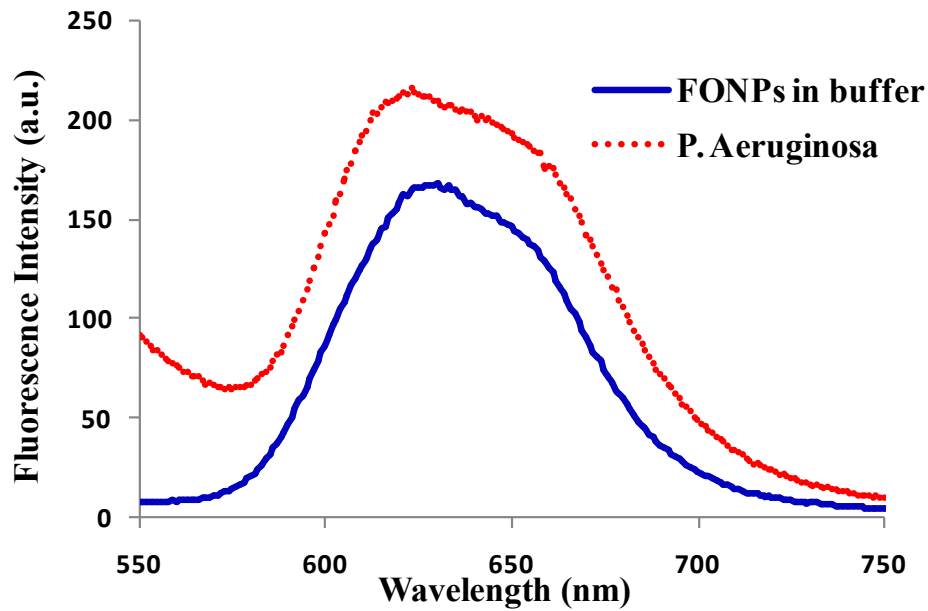
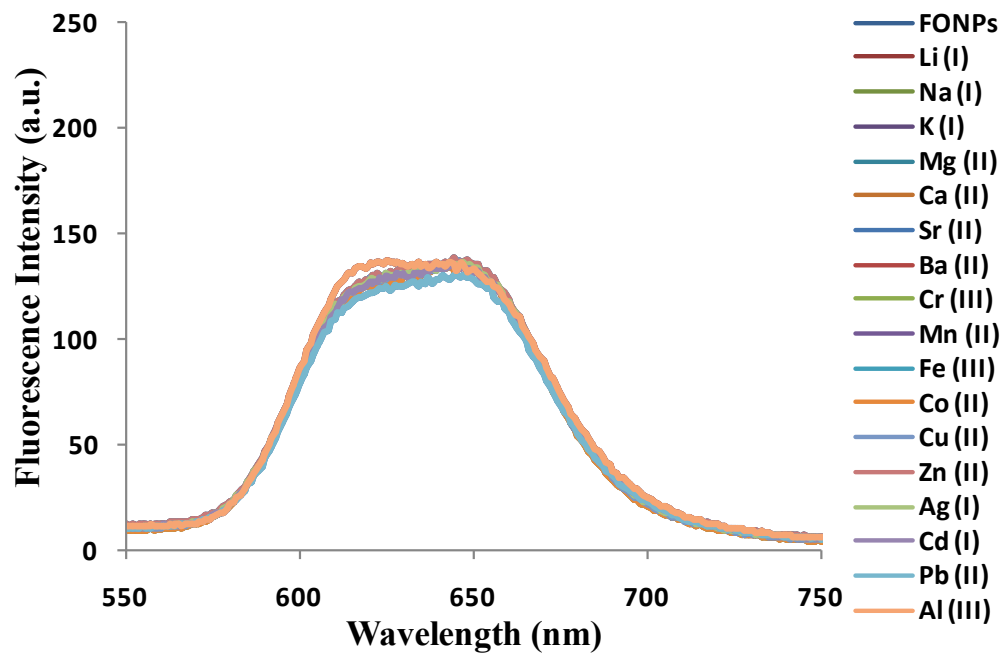**Figure S5**. Effect of using buffer on the recognition properties of **FONPs**.

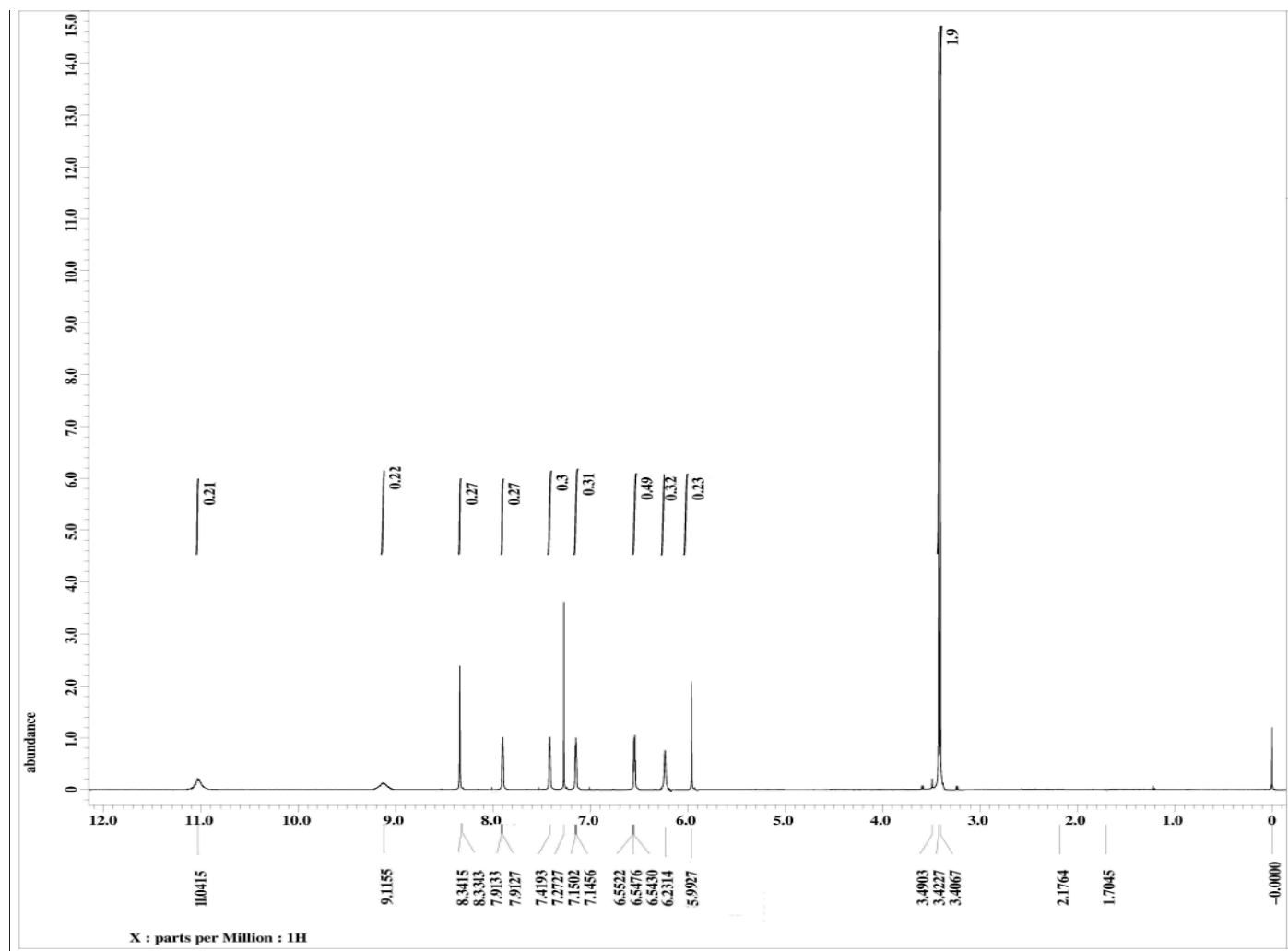**Figure S6**. Fluorescence spectra of **FONPs** on addition of 5μM of various metal ions.
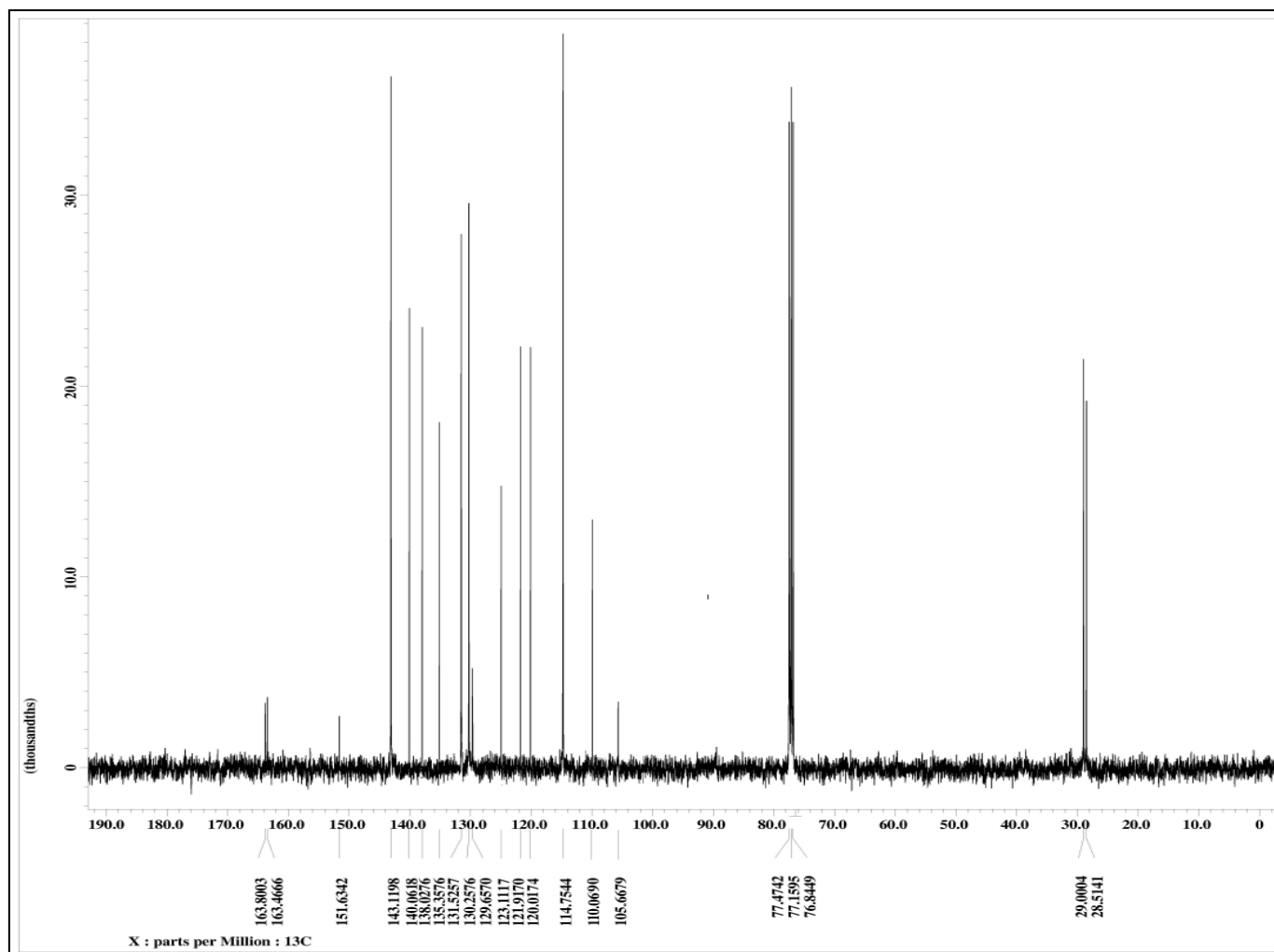
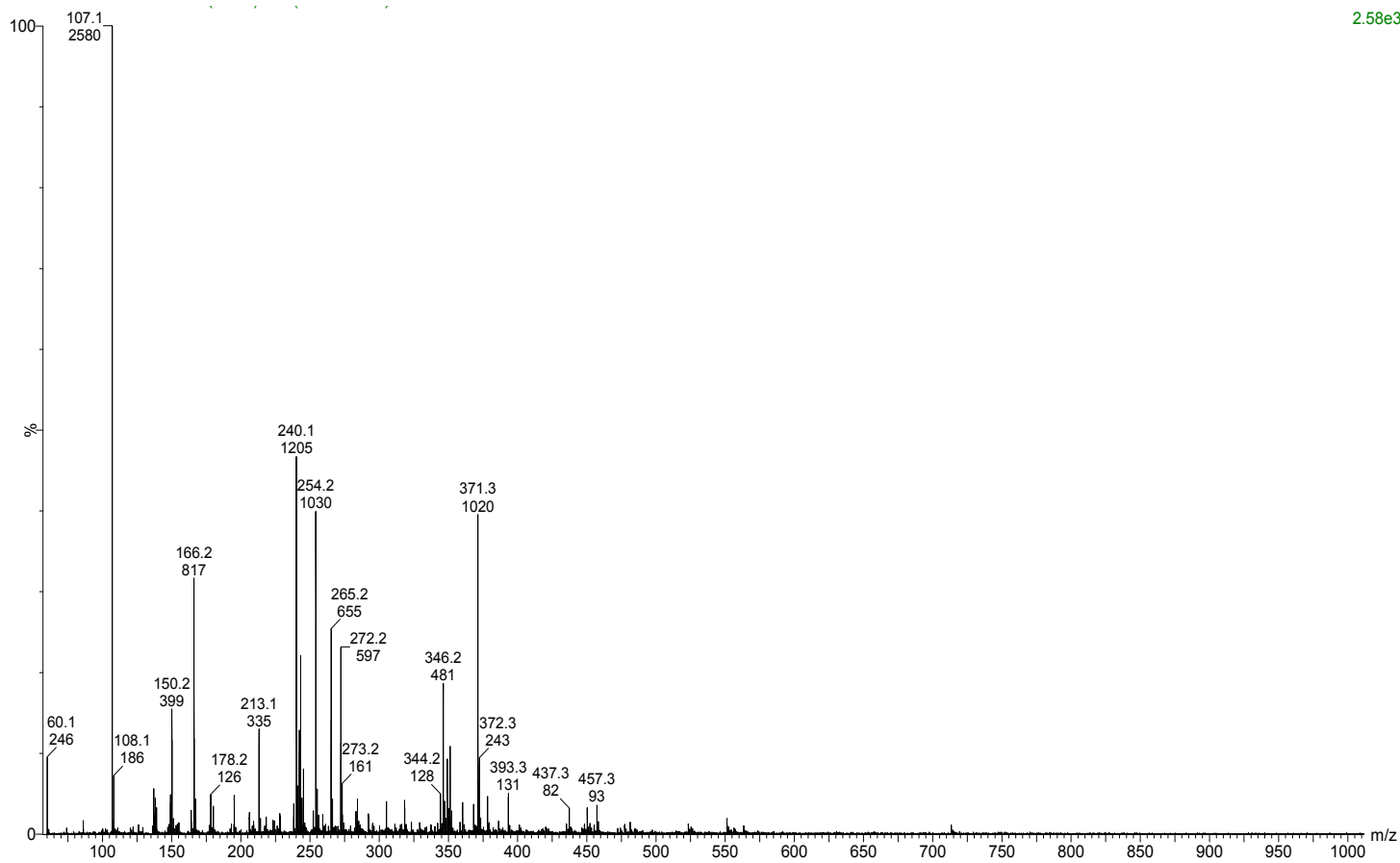**Figure S7.** ^{1}H NMR of compound **1**

Figure S8. ^{13}C NMR of compound **1**

Figure S9. Mass spectra of Compound **1**