

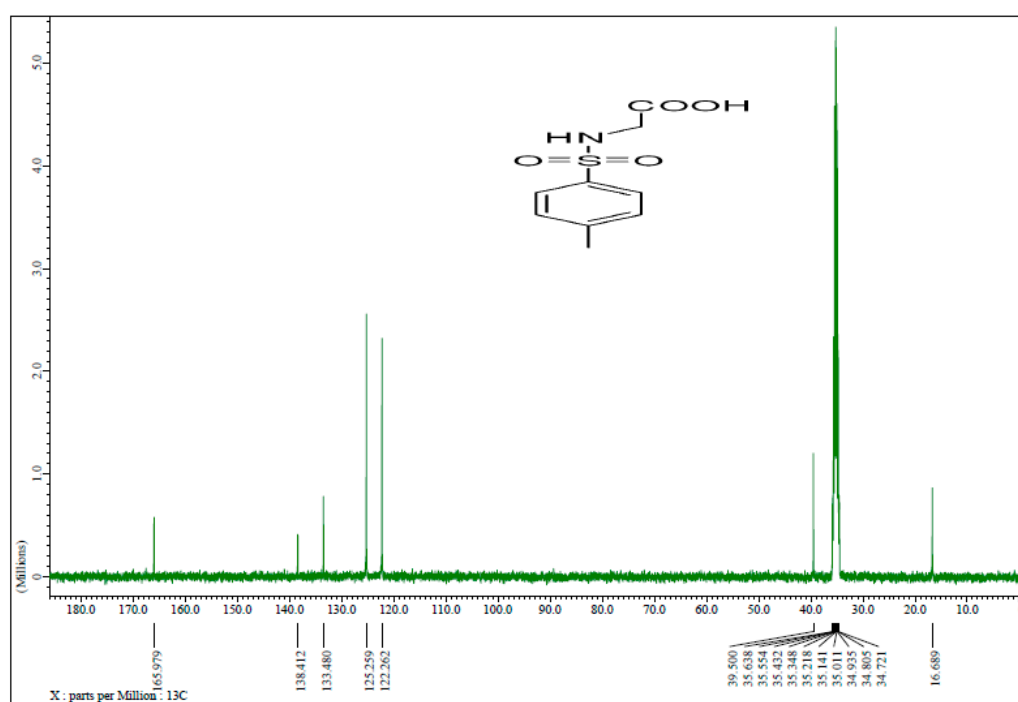
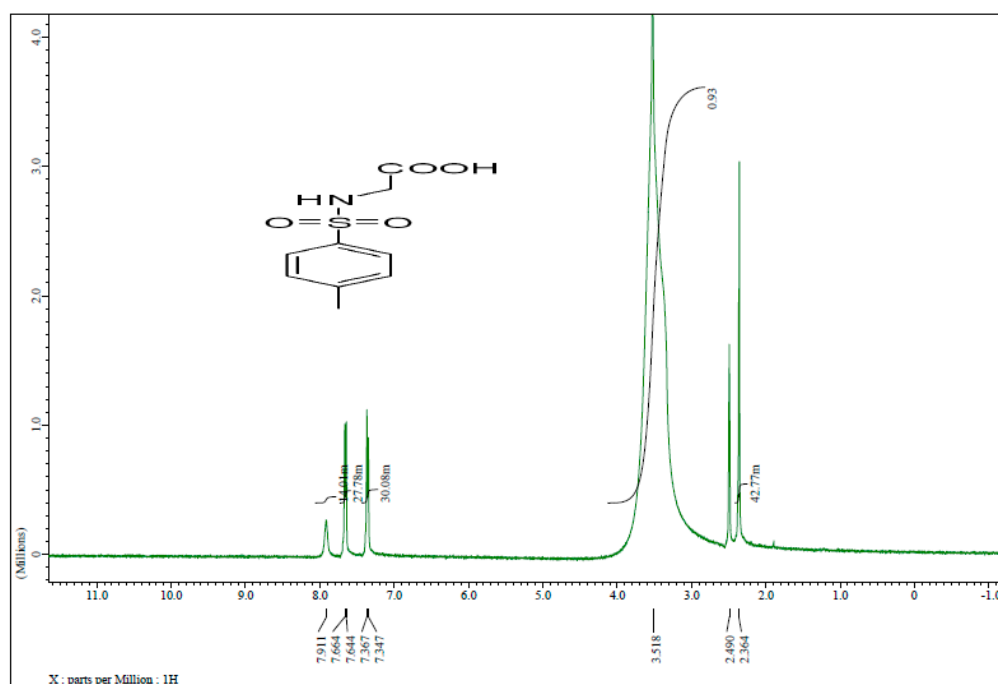
Supplementary Materials

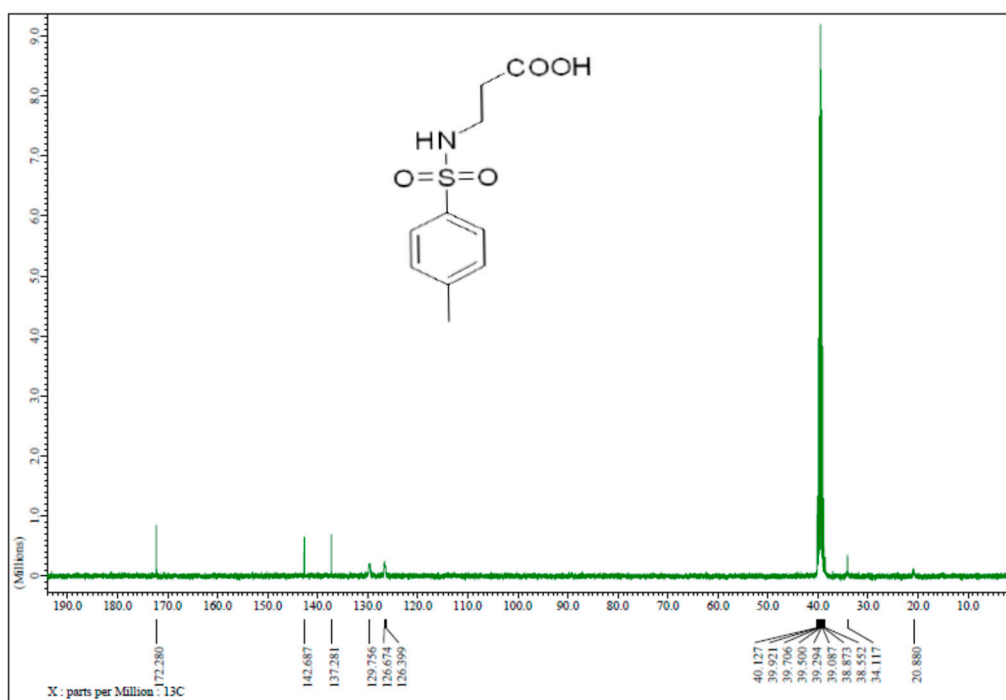
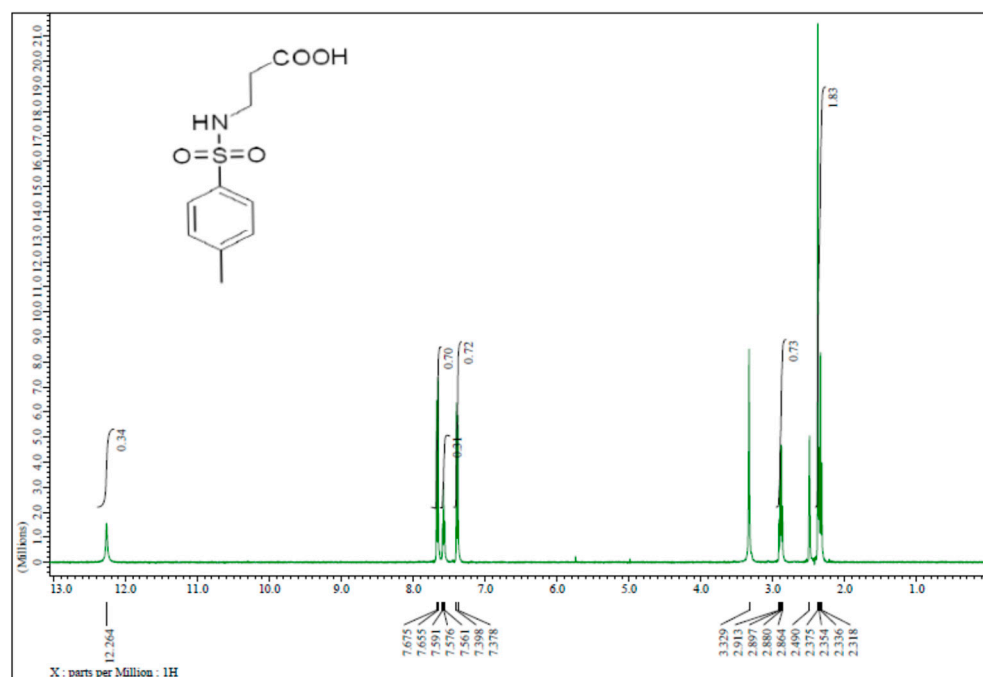
A Facile and Eco-friendly Method for the Synthesis of Sulfonamide and Sulfonate Carboxylic acid Derivatives; X-ray structure, Hirshfeld analysis and Spectroscopic characterizations

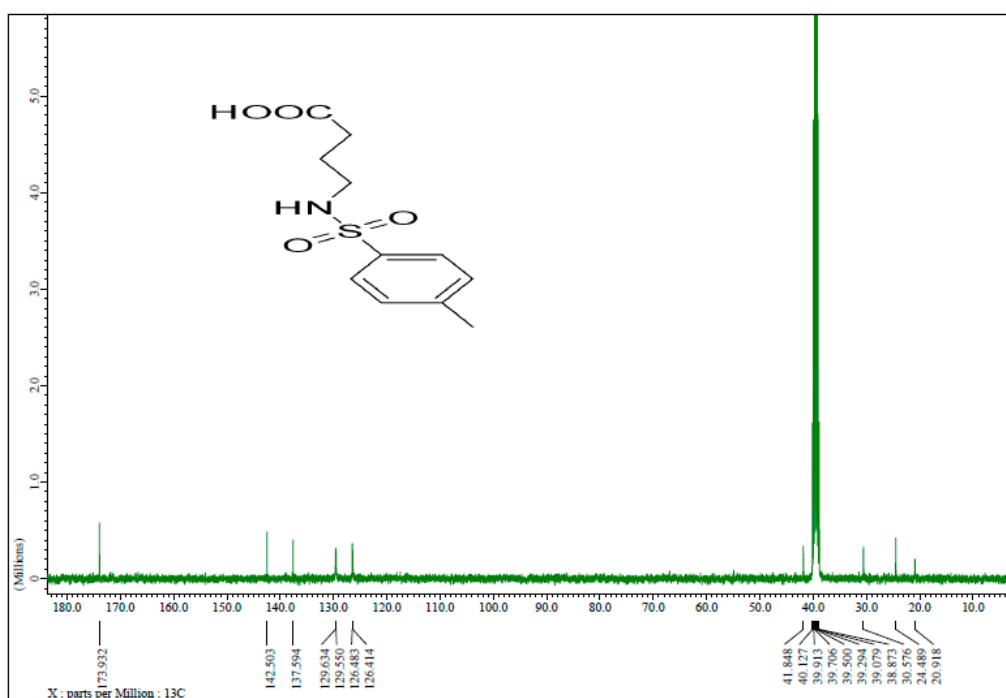
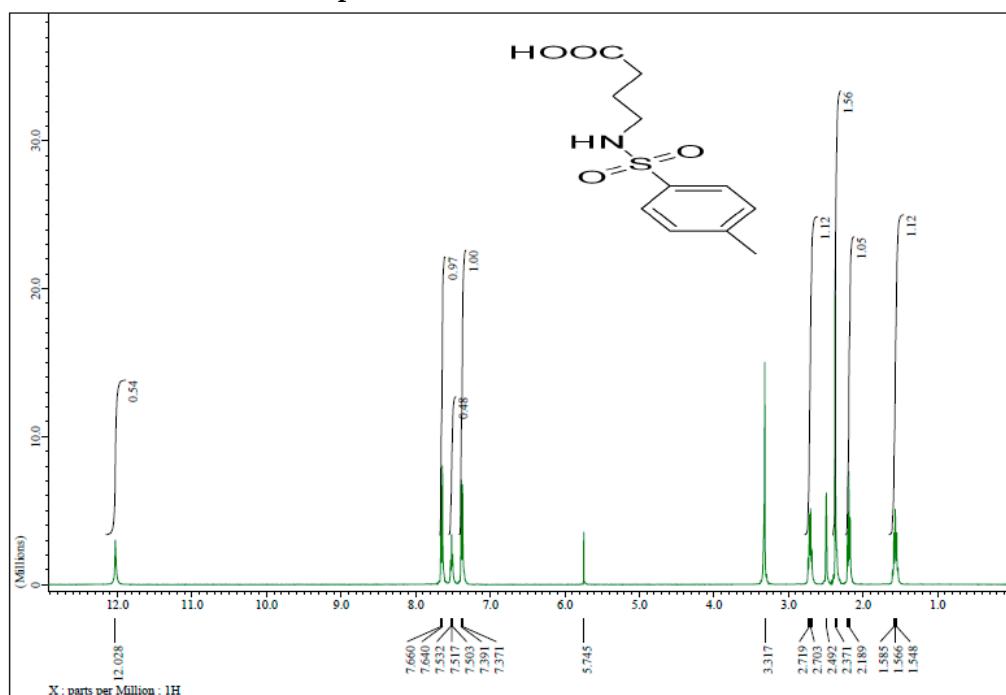
Zainab Almarhoon, Saied M. Soliman, * Hazem A. Ghabbour, Ayman El-Faham *

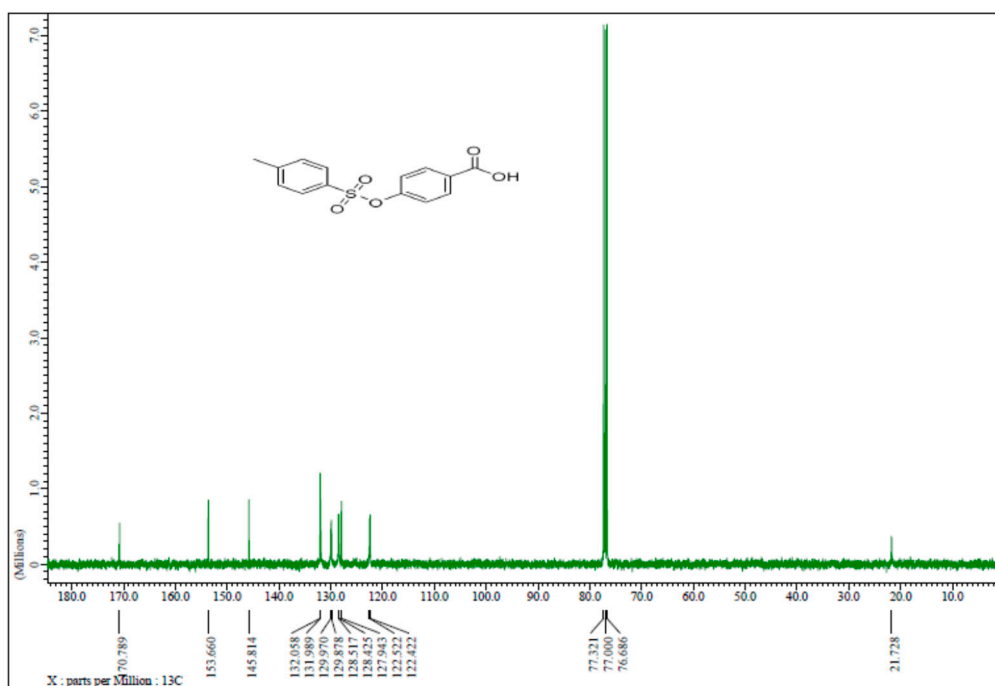
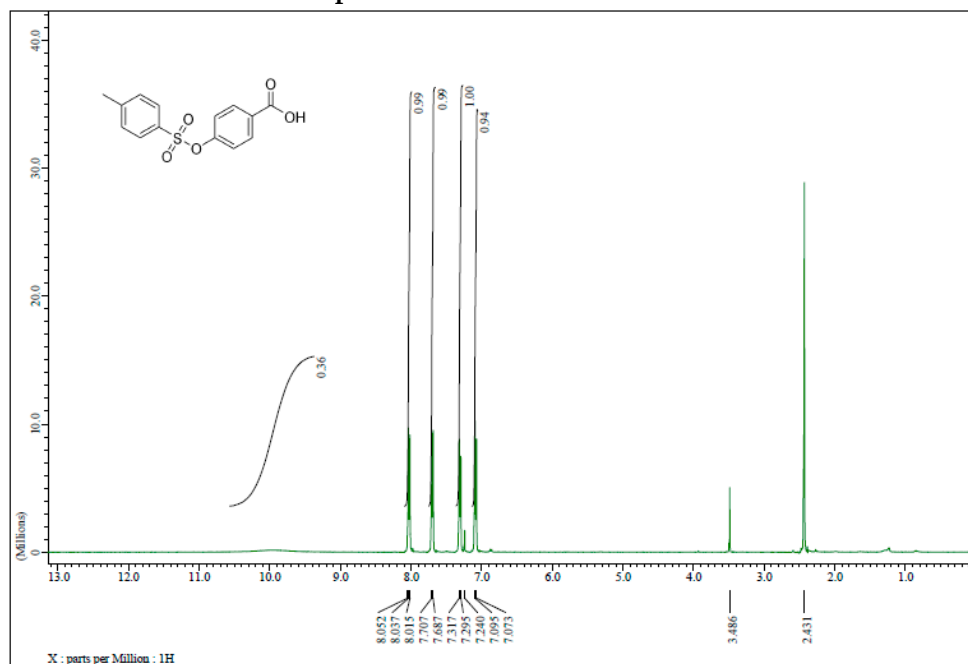
Table of Content

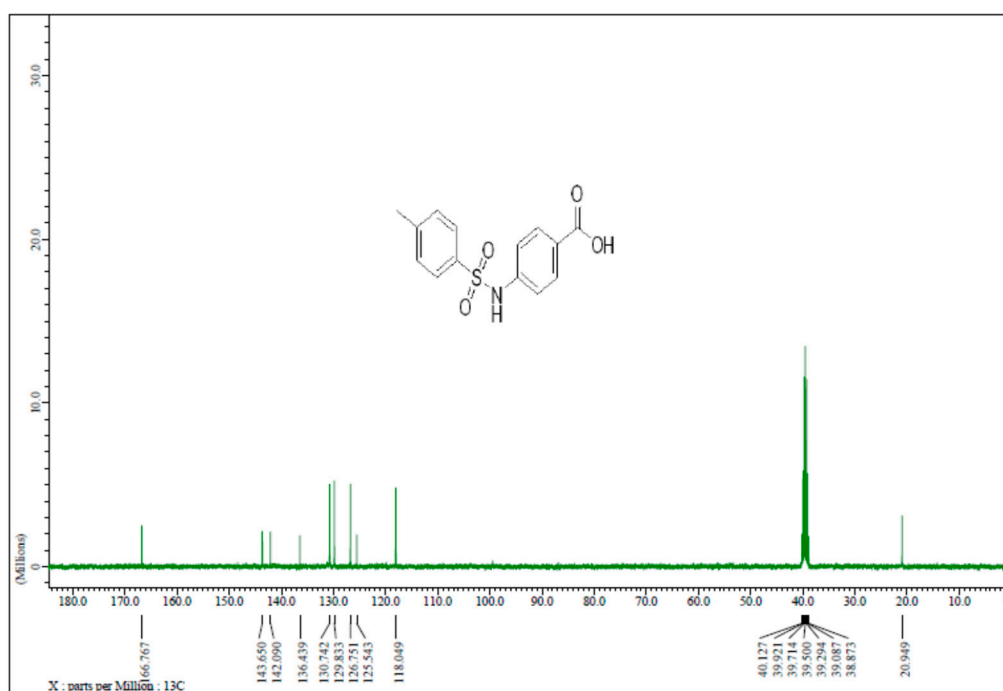
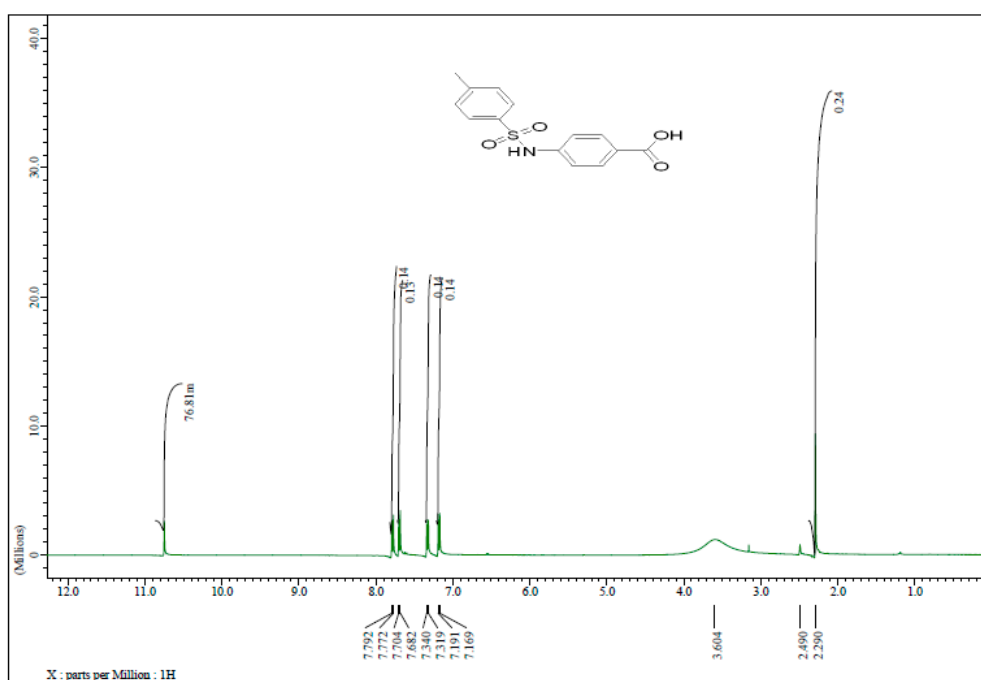
^1H NMR and ^{13}C for compound 4a	S1
^1H NMR and ^{13}C for compound 4b	S2
^1H NMR and ^{13}C for compound 4c	S3
^1H NMR and ^{13}C for compound 5a	S4
^1H NMR and ^{13}C for compound 5b	S5
^1H NMR and ^{13}C for compound 5c	S6
^1H NMR and ^{13}C for compound 7a	S7
^1H NMR and ^{13}C for compound 7b	S8

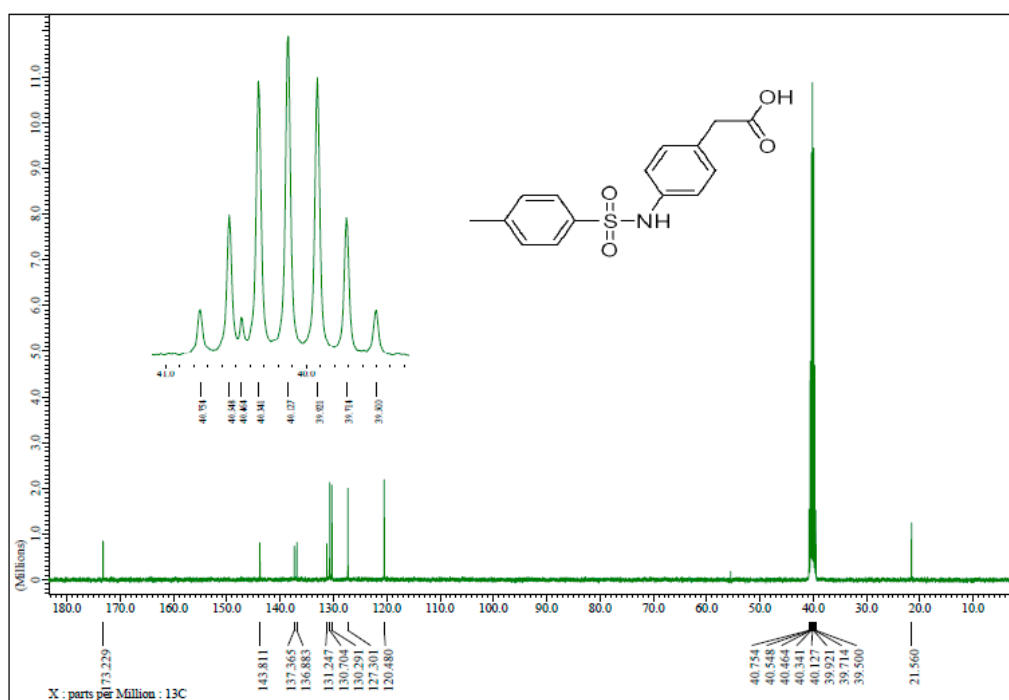
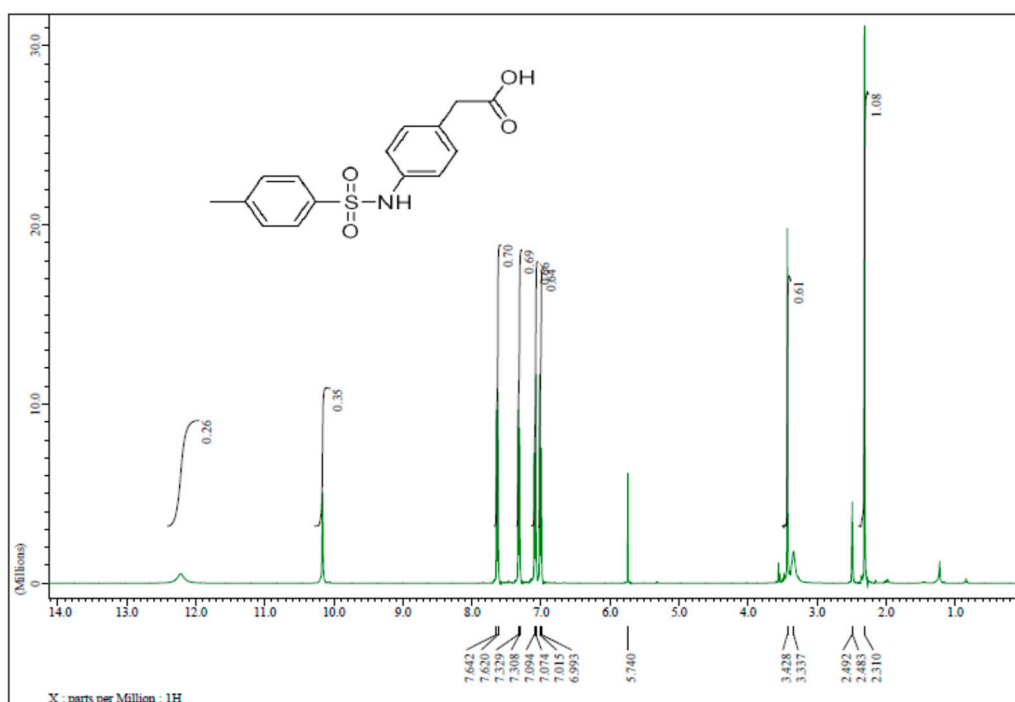
S1. ^1H NMR and ^{13}C for compound 4a

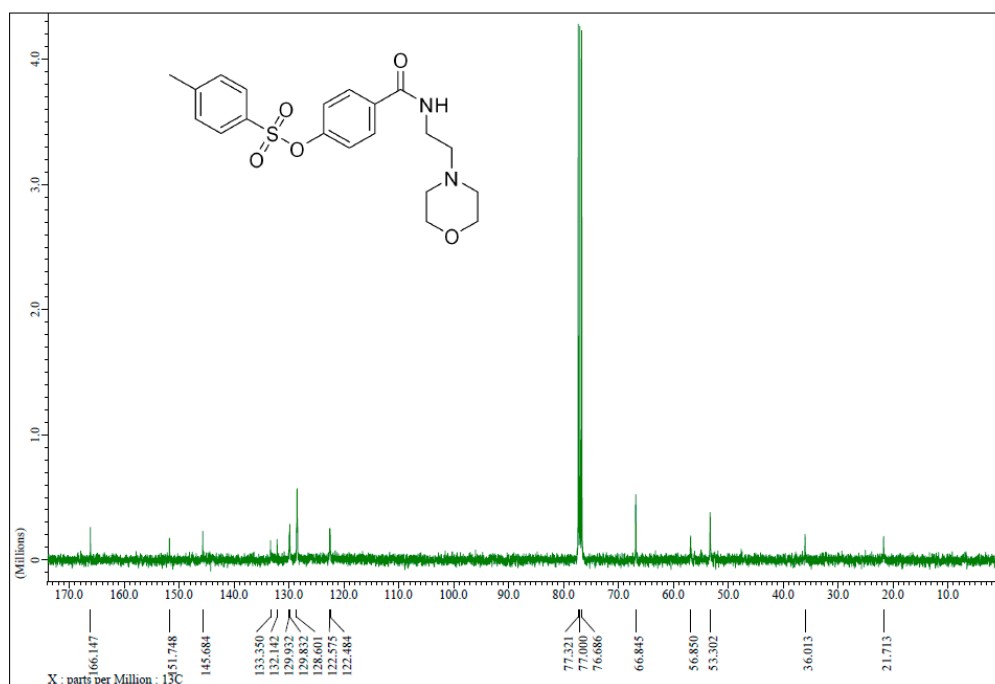
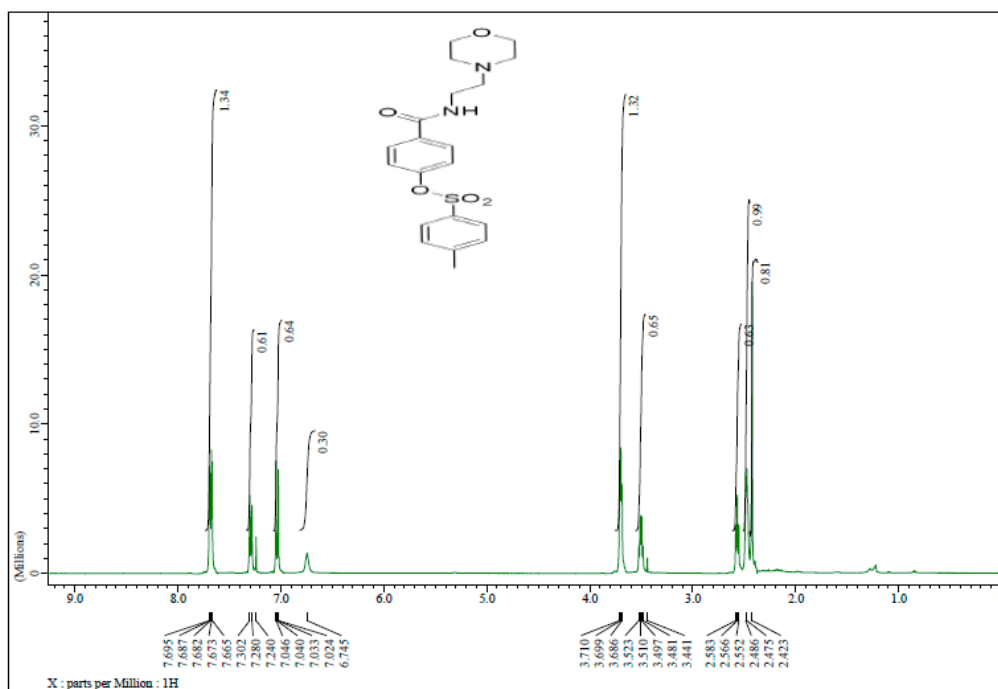
S2. ^1H NMR and ^{13}C for compound 4b

S3. ^1H NMR and ^{13}C for compound 4c

S4. ^1H NMR and ^{13}C for compound 5a

S5. ^1H NMR and ^{13}C for compound 5b

S6. ^1H NMR and ^{13}C for compound 5c

S7. ^1H NMR and ^{13}C for compound 7a

S8. ^1H NMR and ^{13}C for compound 7b