

Supporting Information

Org. Commun. 15:2 (2022) 148-166

One-pot three-component synthesis and electrochemical behavior studies of tetrahydrobenzo[*b*]pyrans using WEWFPA under microwave irradiation: Green protocol

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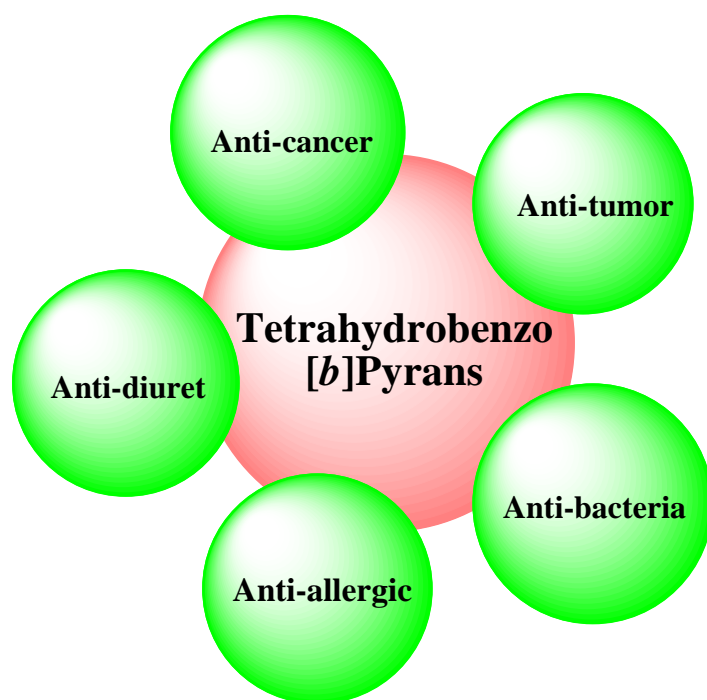


Figure S1: Biological applications of tetrahydrobenzo[*b*]pyran scaffolds

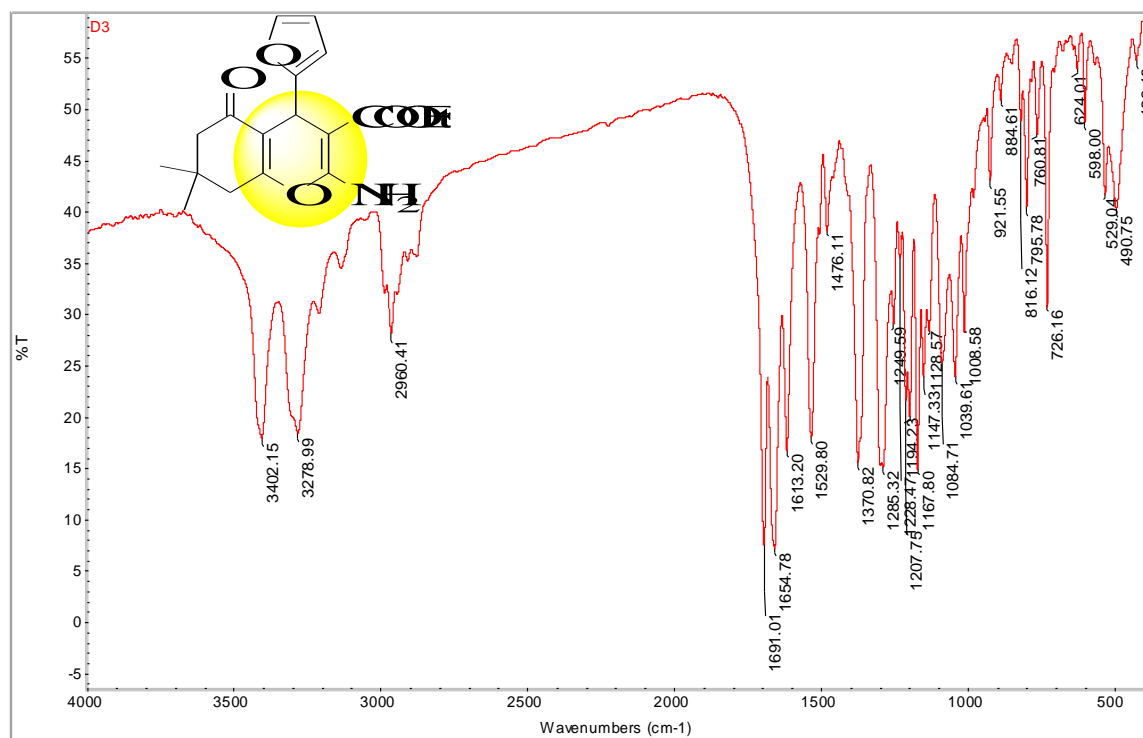


Figure S2: FT-IR spectrum of ethyl-2-amino-4-(furan-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4k**)

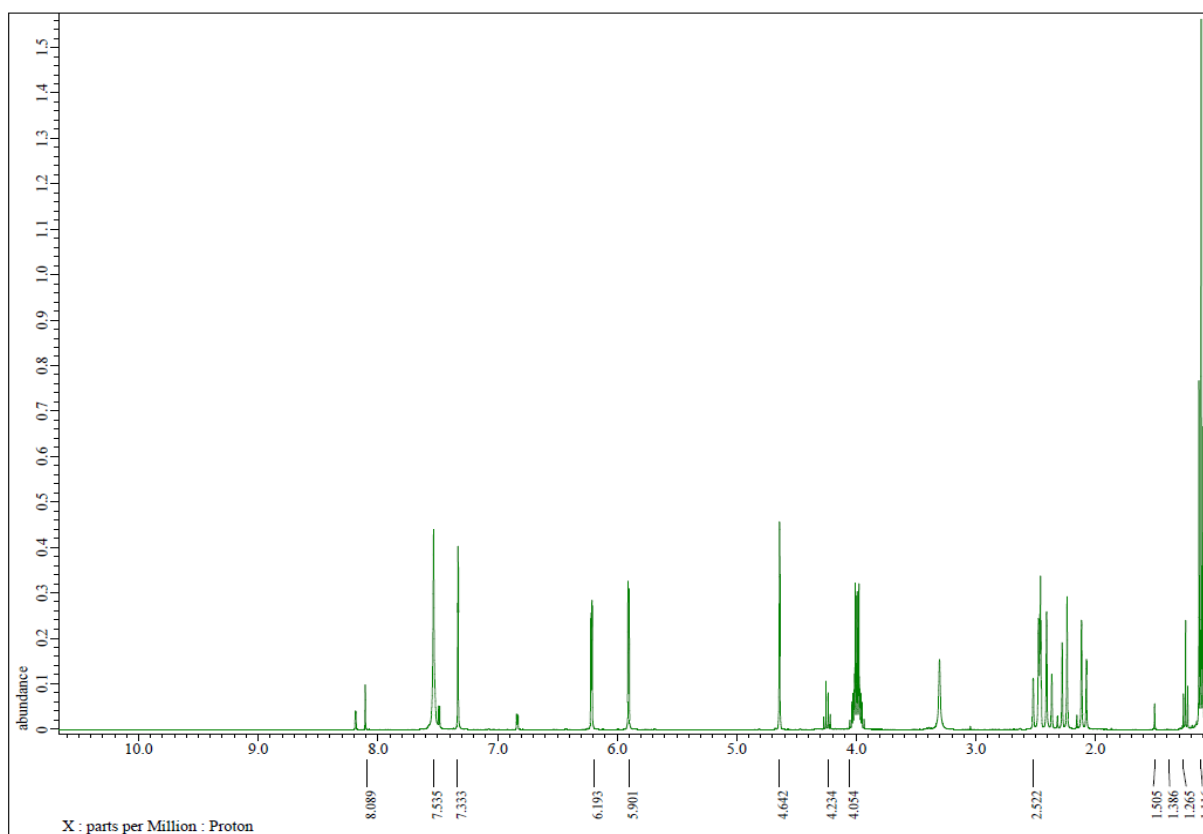


Figure S3: ¹H-NMR (DMSO) spectrum of ethyl-2-amino-4-(furan-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4k**)

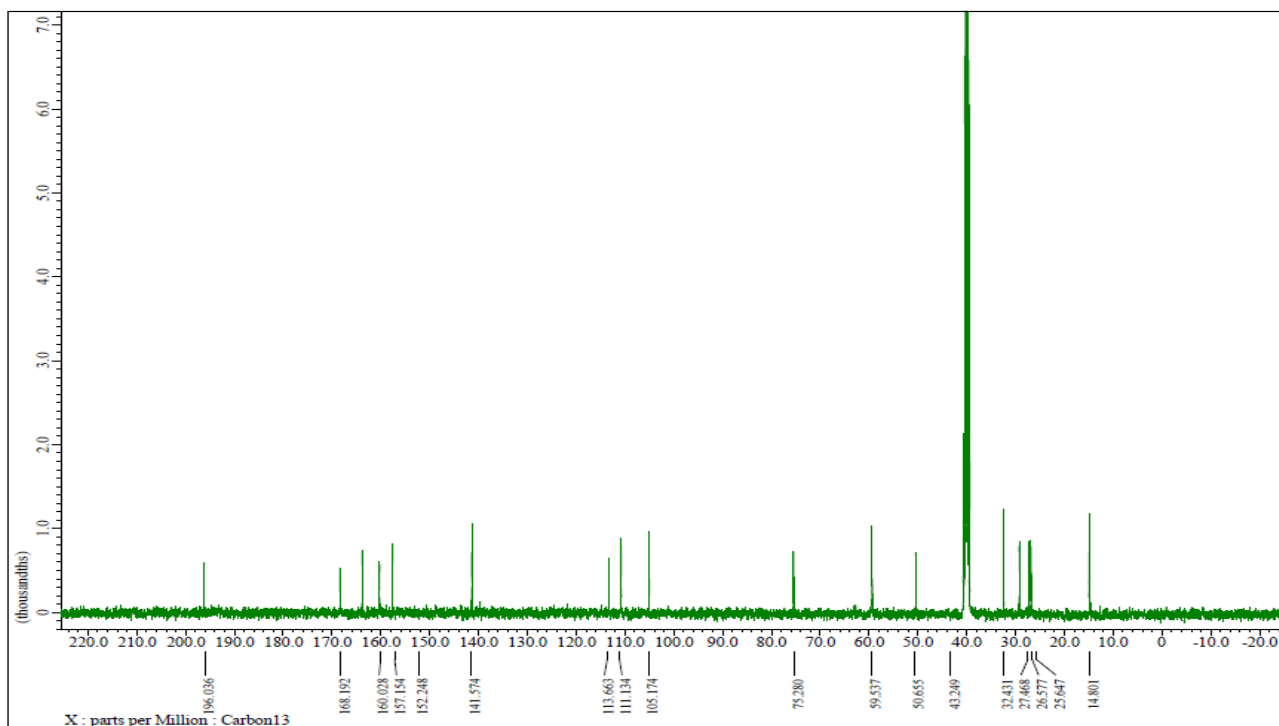


Figure S4: ^{13}C -NMR (DMSO) spectrum of ethyl-2-amino-4-(furan-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4k**)

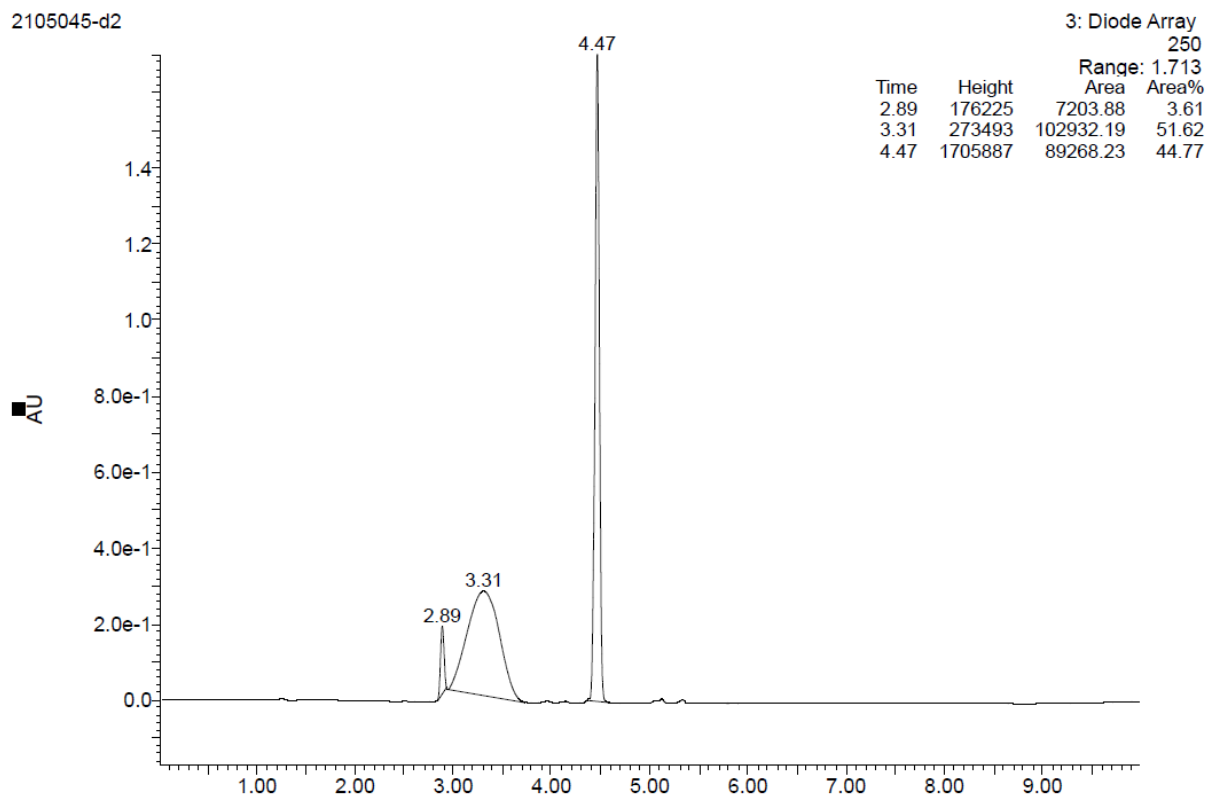


Figure S5: LC profile of spectrum of ethyl-2-amino-4-(furan-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4k**)

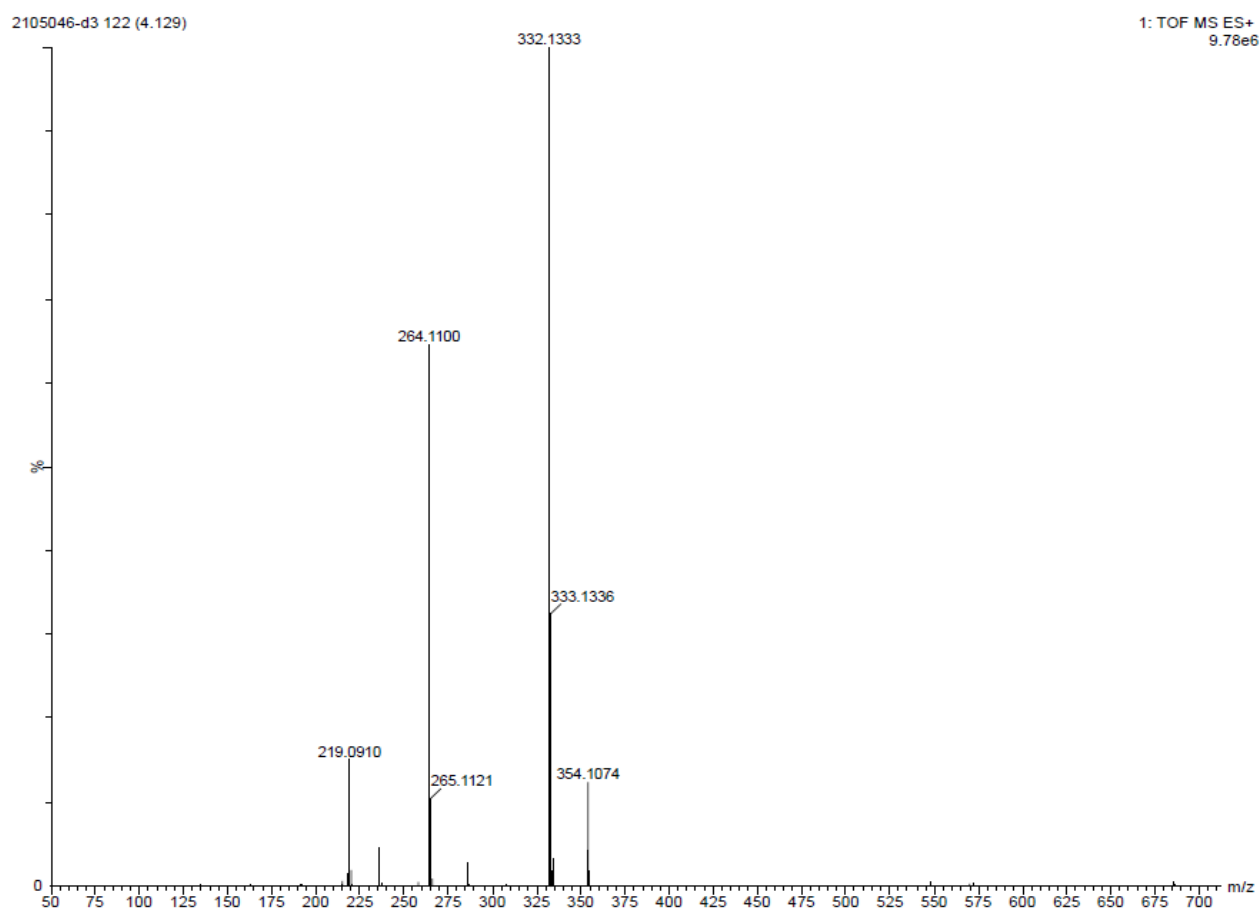


Figure S6: LC-MS spectrum of ethyl-2-amino-4-(furan-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4k**)

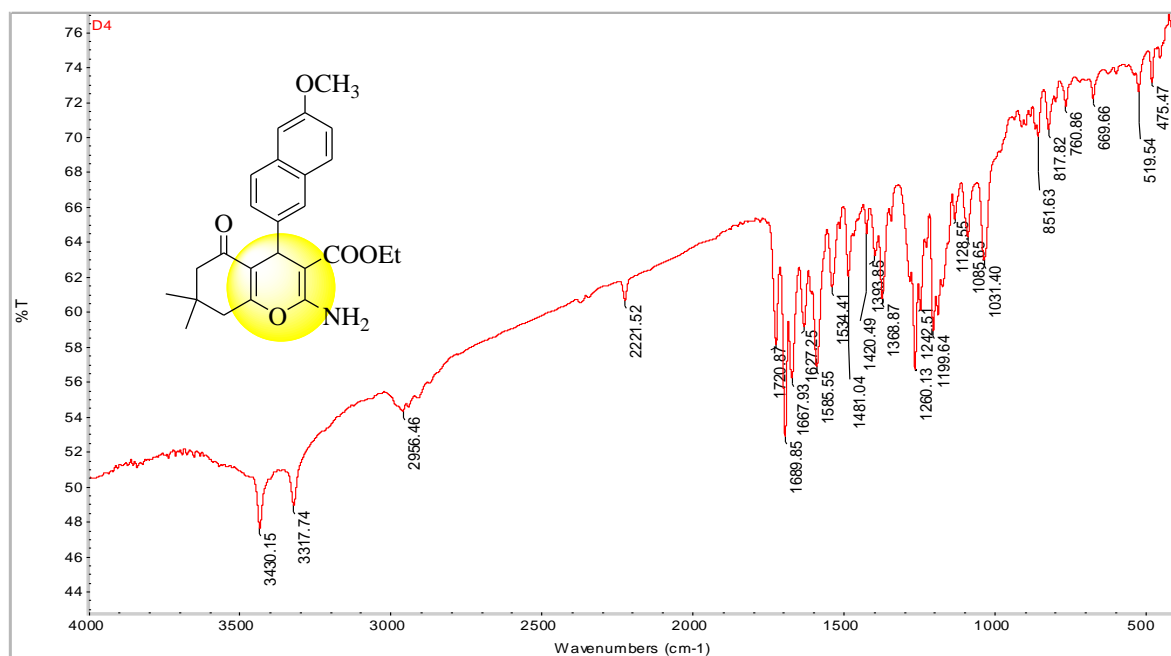


Figure S7: FT-IR spectrum of ethyl-2-amino-4-(6-methoxynaphthalen-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4H-chromene-3-carboxylate (**4q**)

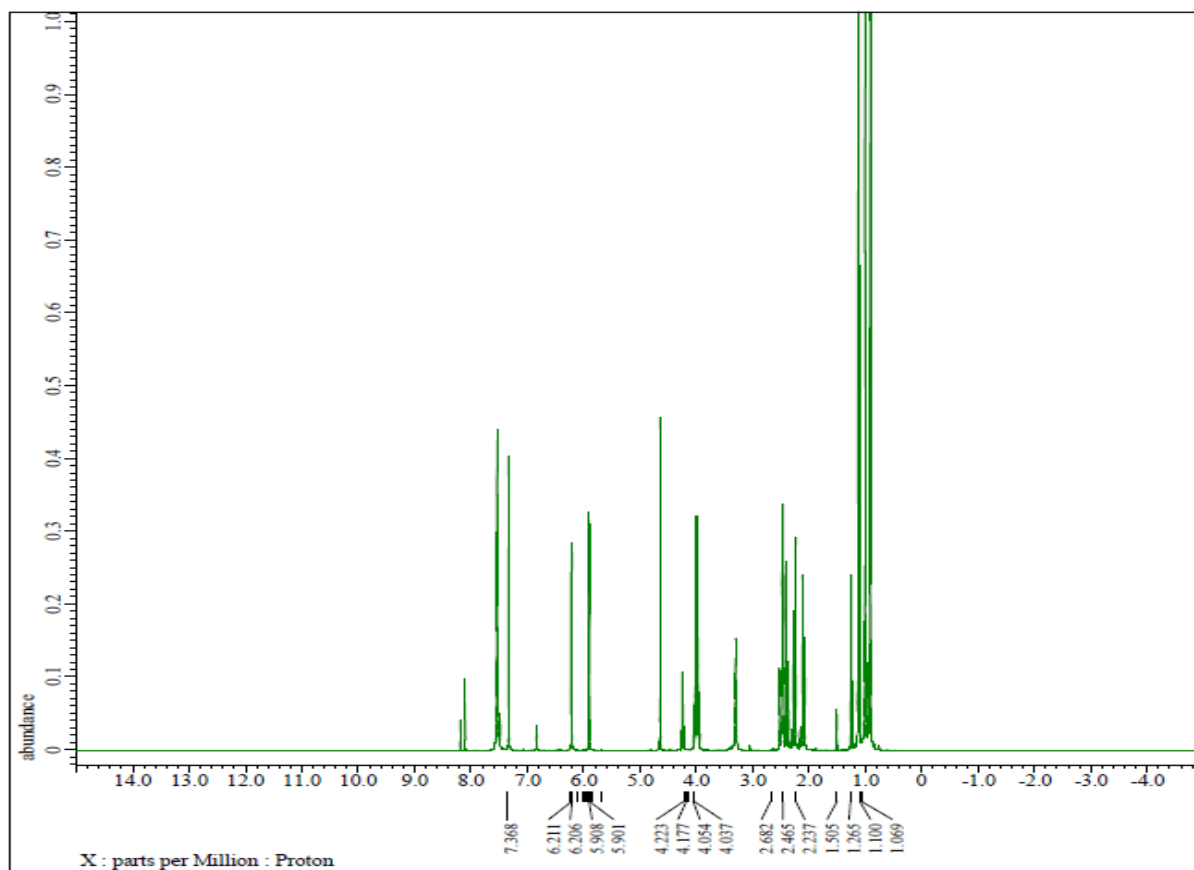


Figure S8: ¹H-NMR spectrum of ethyl-2-amino-4-(6-methoxynaphthalen-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4H-chromene-3-carboxylate (**4q**)

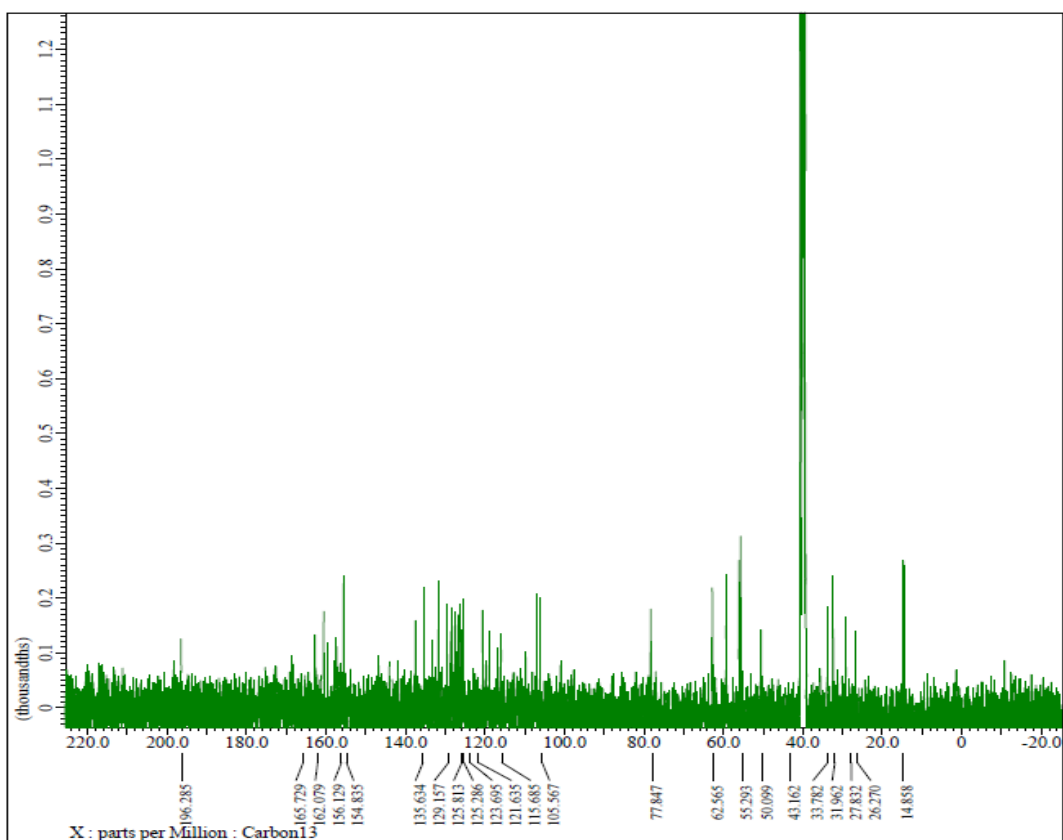


Figure S9: ¹³C-NMR spectrum of ethyl-2-amino-4-(6-methoxynaphthalen-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4q**)

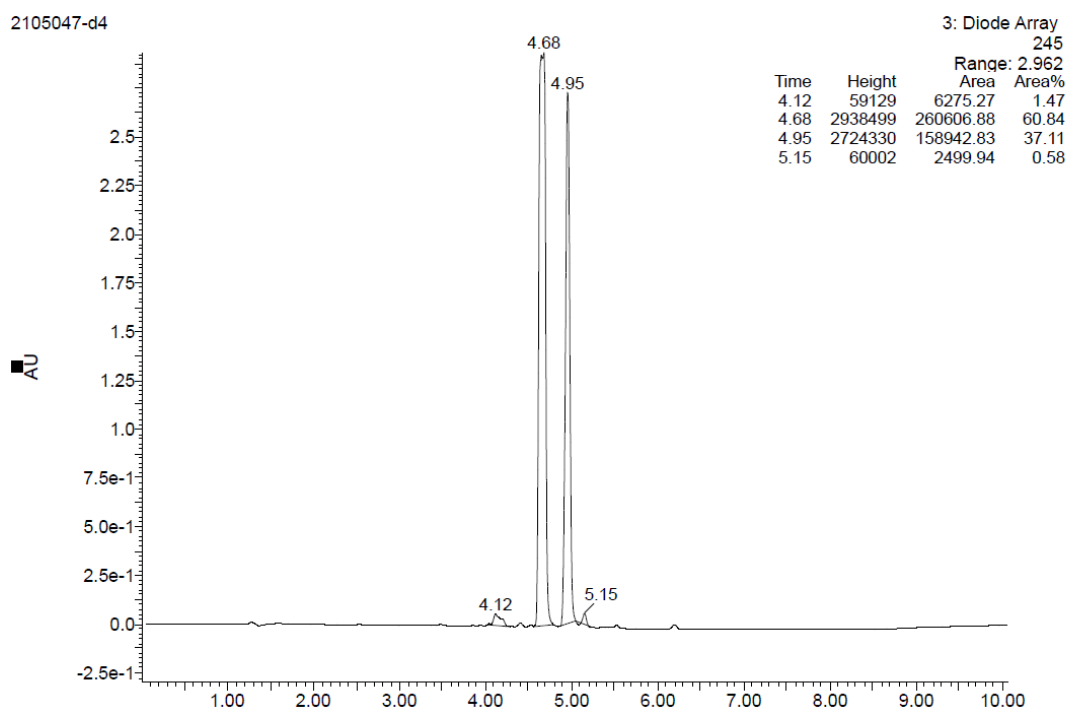


Figure S10: LC profile of ethyl-2-amino-4-(6-methoxynaphthalen-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4q**)

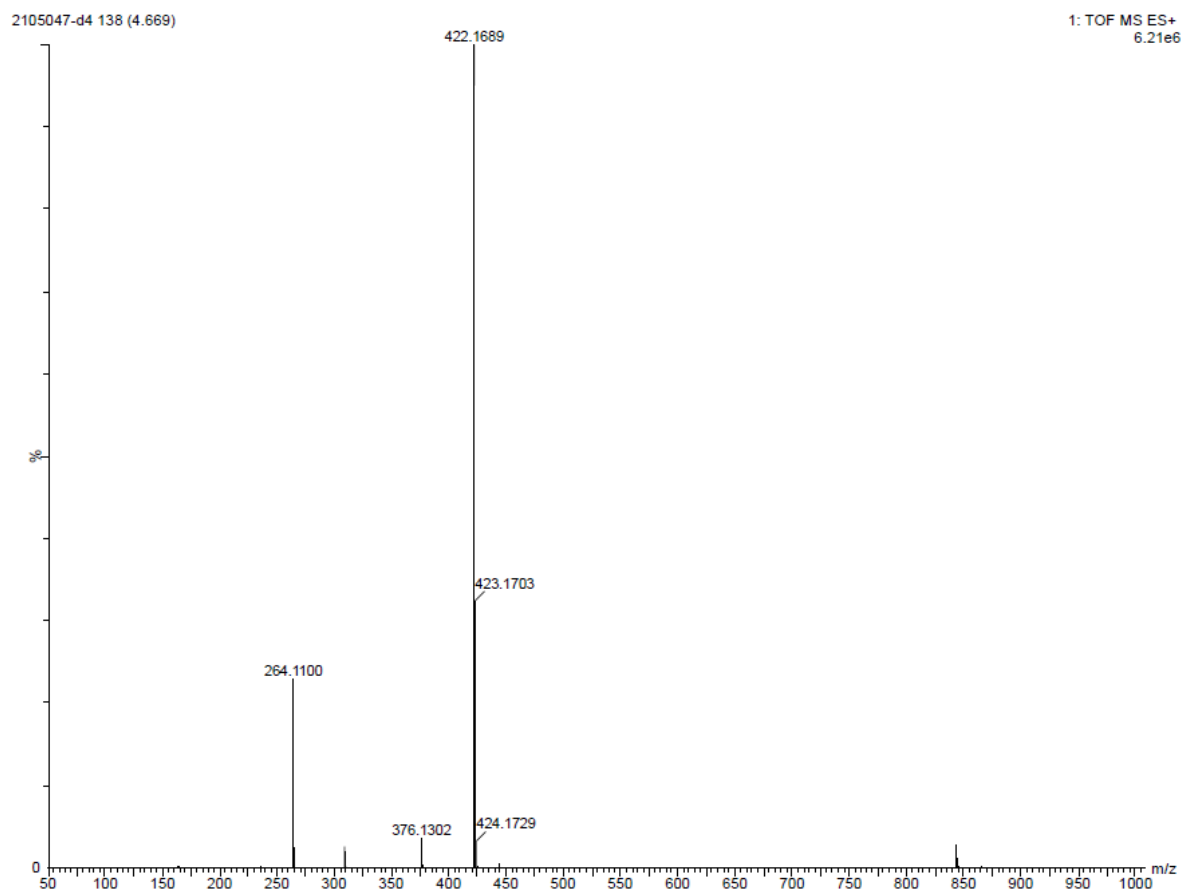


Figure S11: LC-MS spectrum of of ethyl-2-amino-4-(6-methoxynaphthalen-2-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4q**)

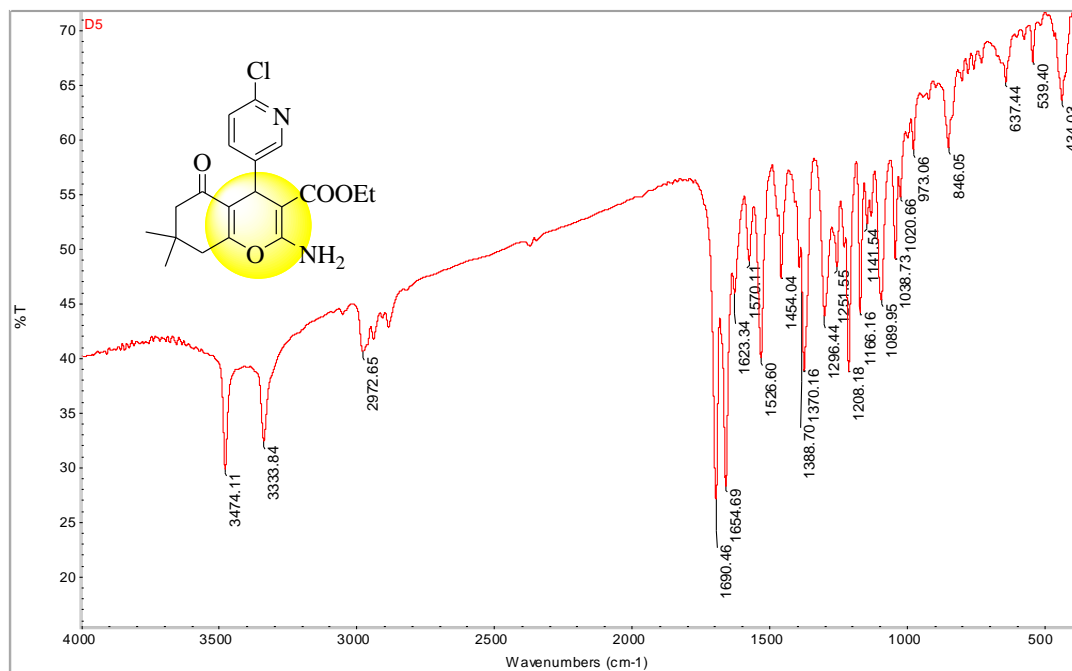


Figure S12: FT-IR spectrum of Ethyl-2-amino-4-(6-chloropyridin-3-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4r**)

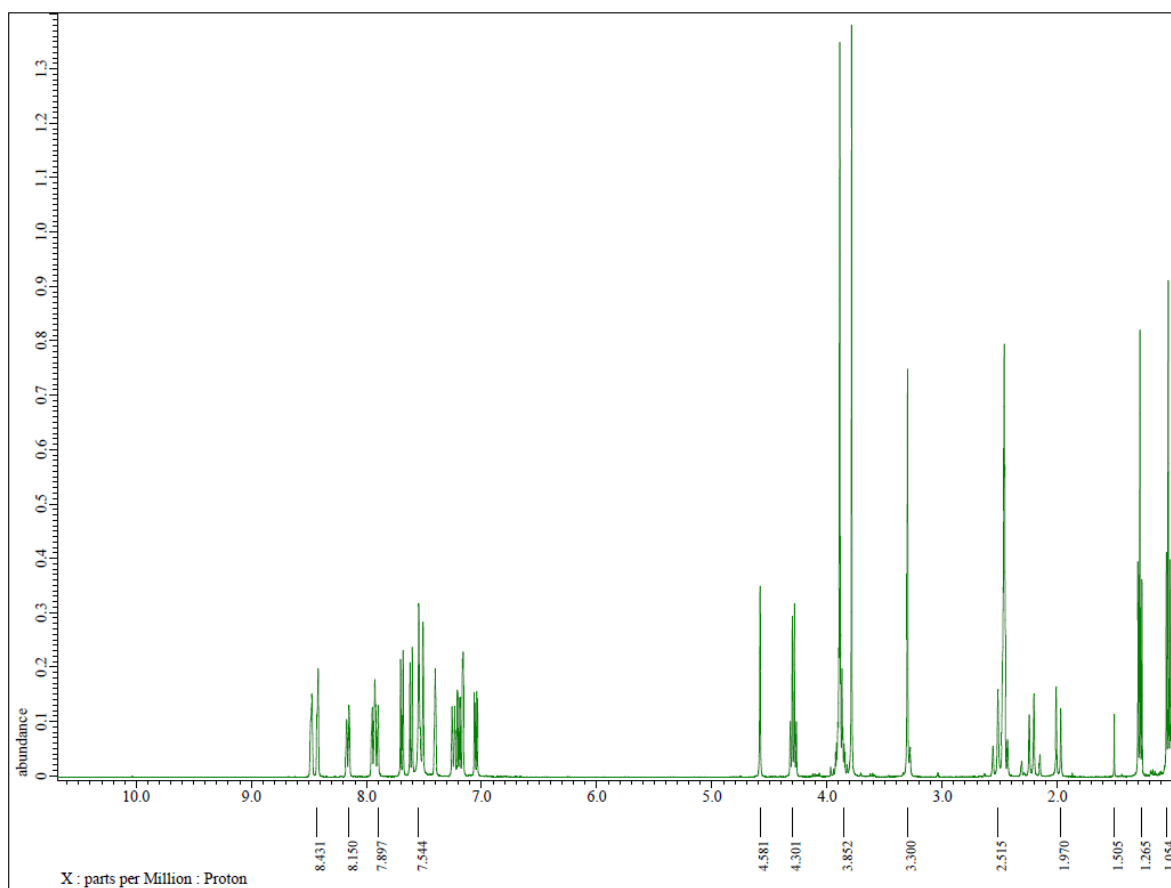


Figure S13: ¹H-NMR (DMSO) spectrum of ethyl-2-amino-4-(6-chloropyridin-3-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4r**)

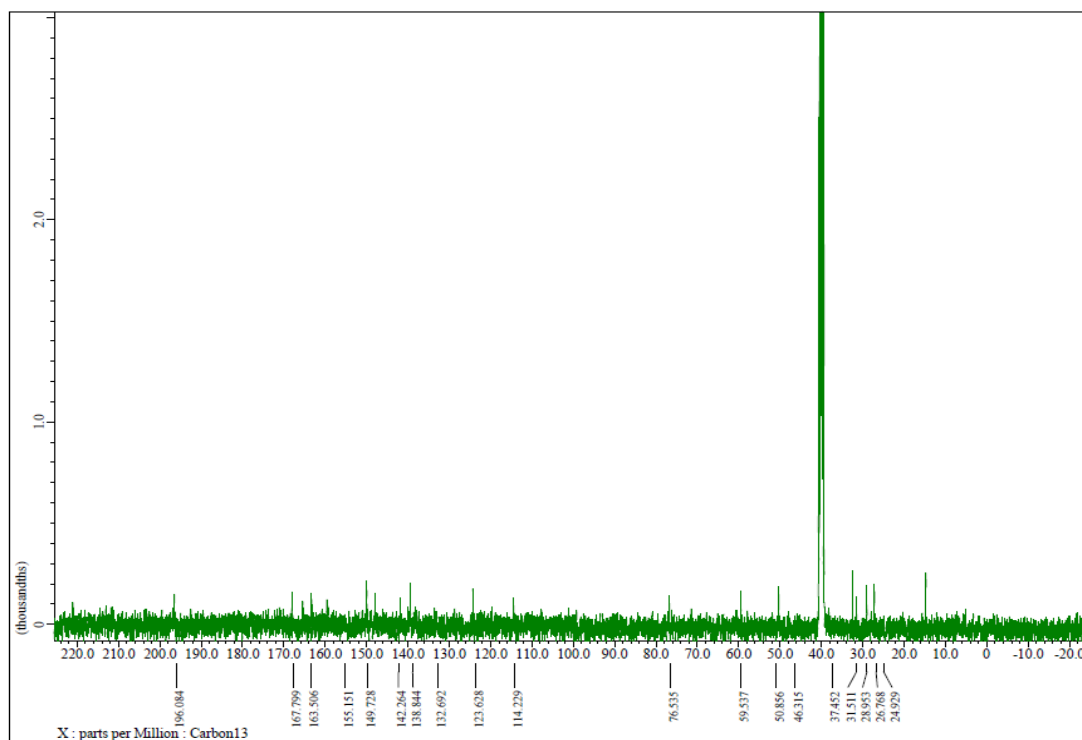


Figure S14: ^{13}C -NMR (DMSO) Spectrum of ethyl-2-amino-4-(6-chloropyridin-3-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4r**)

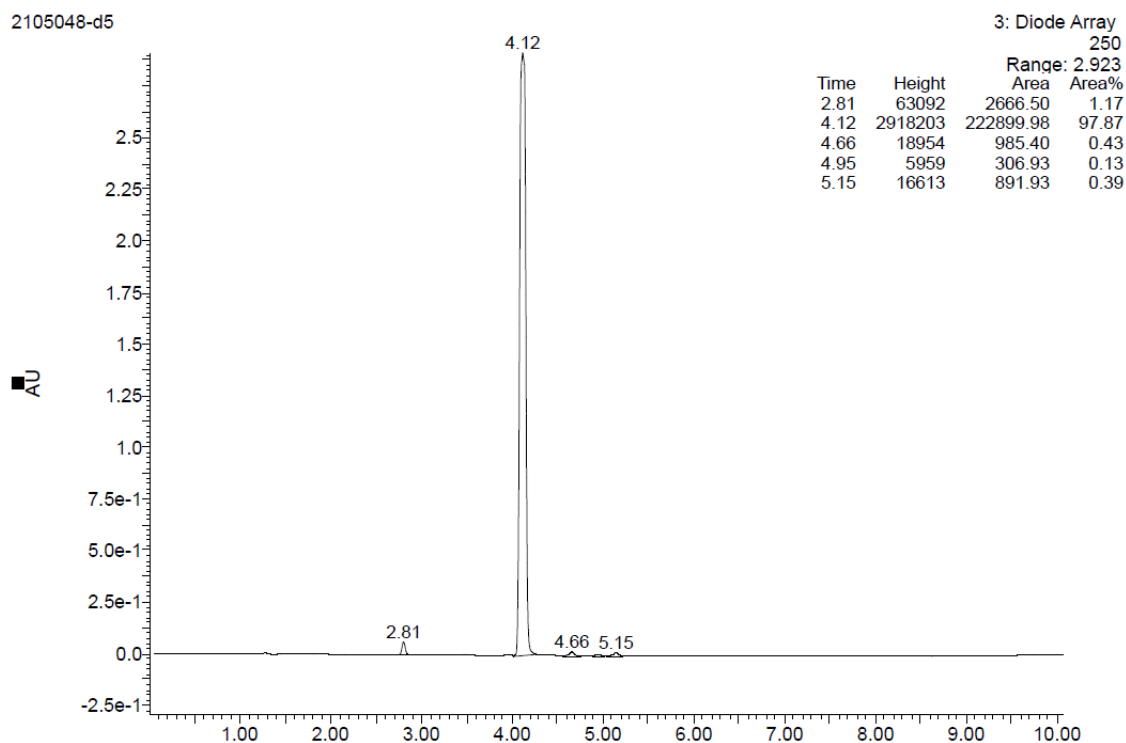


Figure S15: LC profile of ethyl-2-amino-4-(6-chloropyridin-3-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4r**)

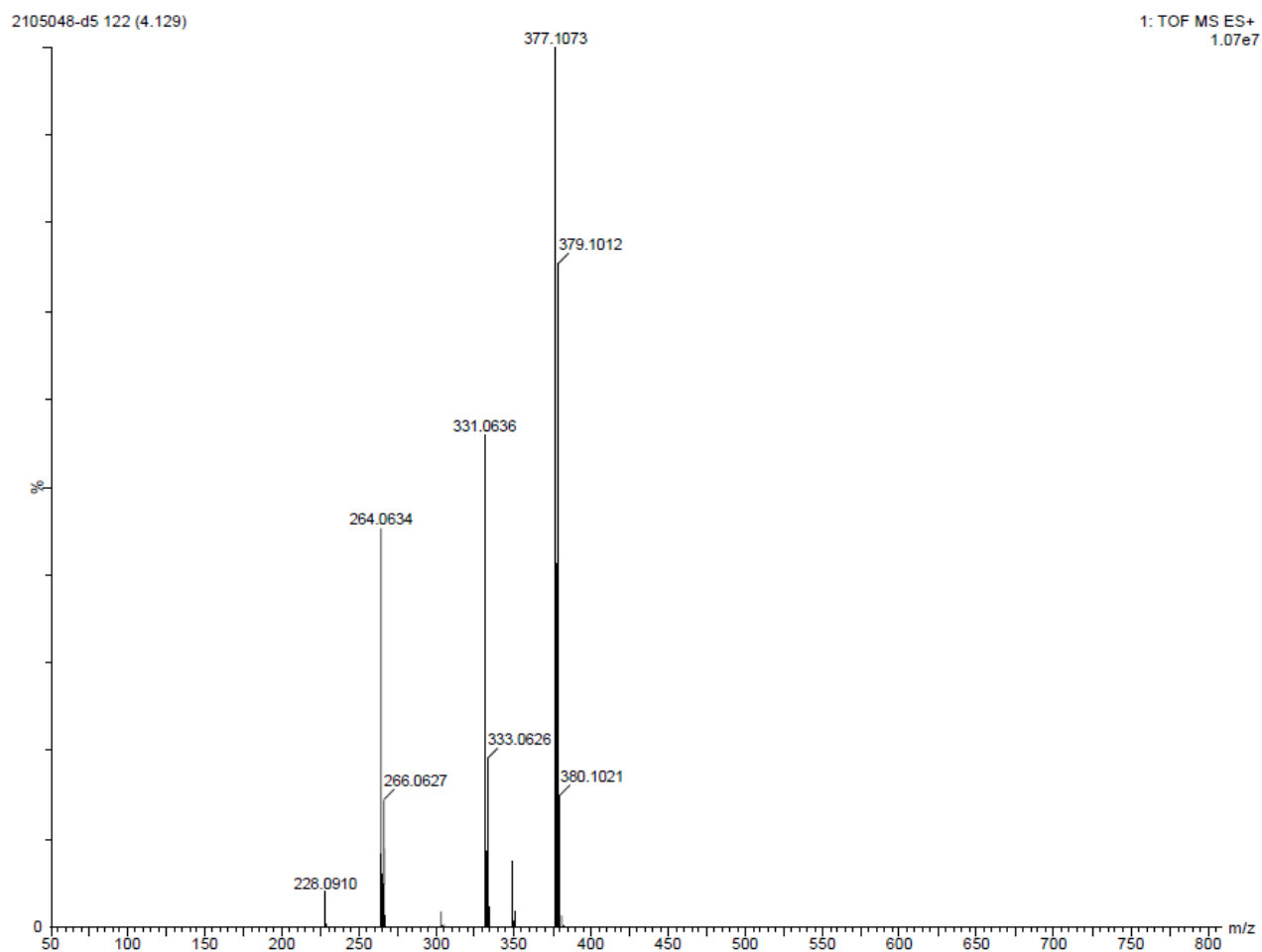


Figure S16: LC-MS spectrum of ethyl-2-amino-4-(6-chloropyridin-3-yl)-7,7-dimethyl-5-oxo-5,6,7,8-tetrahydro-4*H*-chromene-3-carboxylate (**4r**)