

Electronic Supplementary Information (ESI)

Sulphuric acid immobilized on silica gel (H₂SO₄-SiO₂) as an eco-friendly catalyst for transamidation

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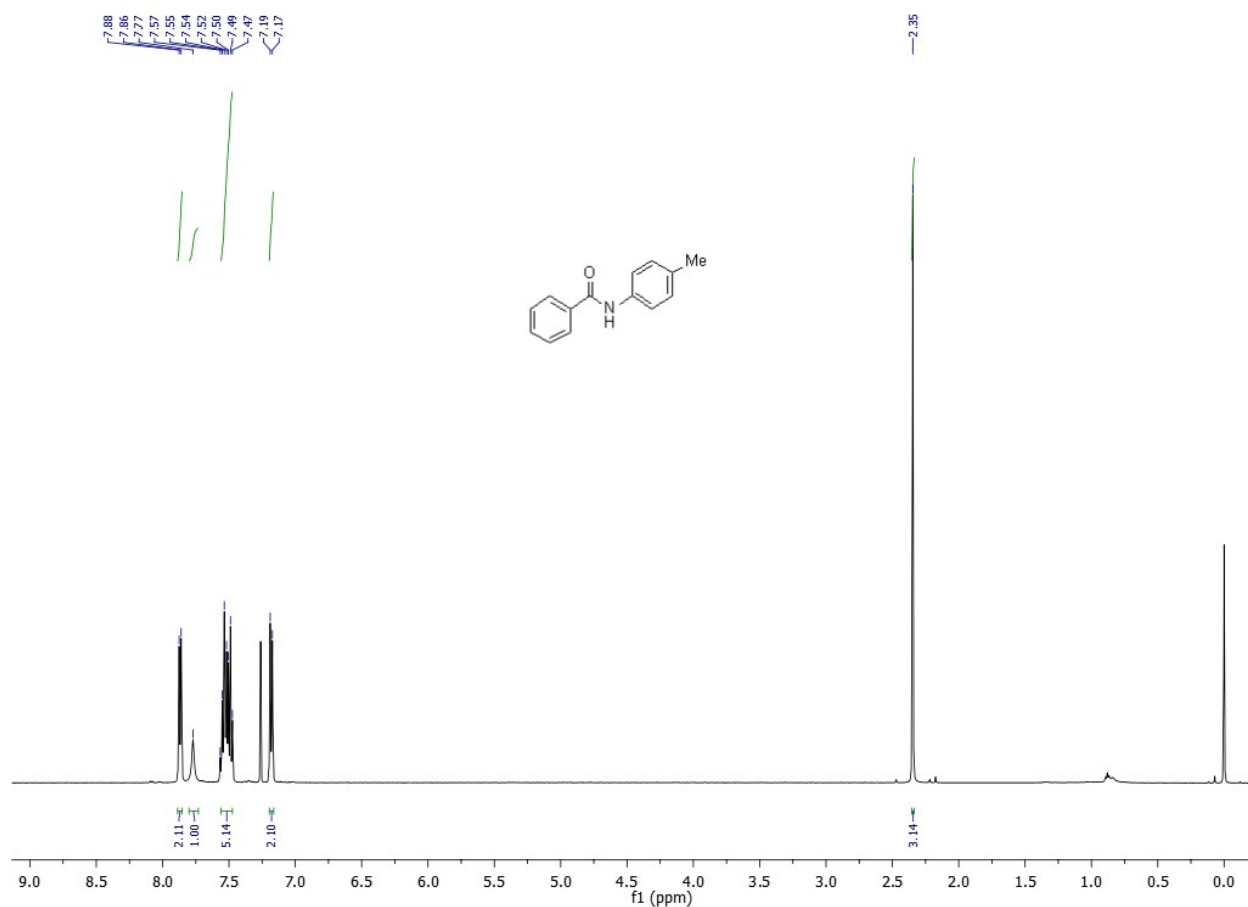
^aAcademy of Scientific and Innovative Research (AcSIR); ^bMedicinal Chemistry Division, Indian Institute of Integrative Medicine(CSIR) Canal Road, Jammu-180001, J & K, India; E-mail: partha@iiim.ac.in

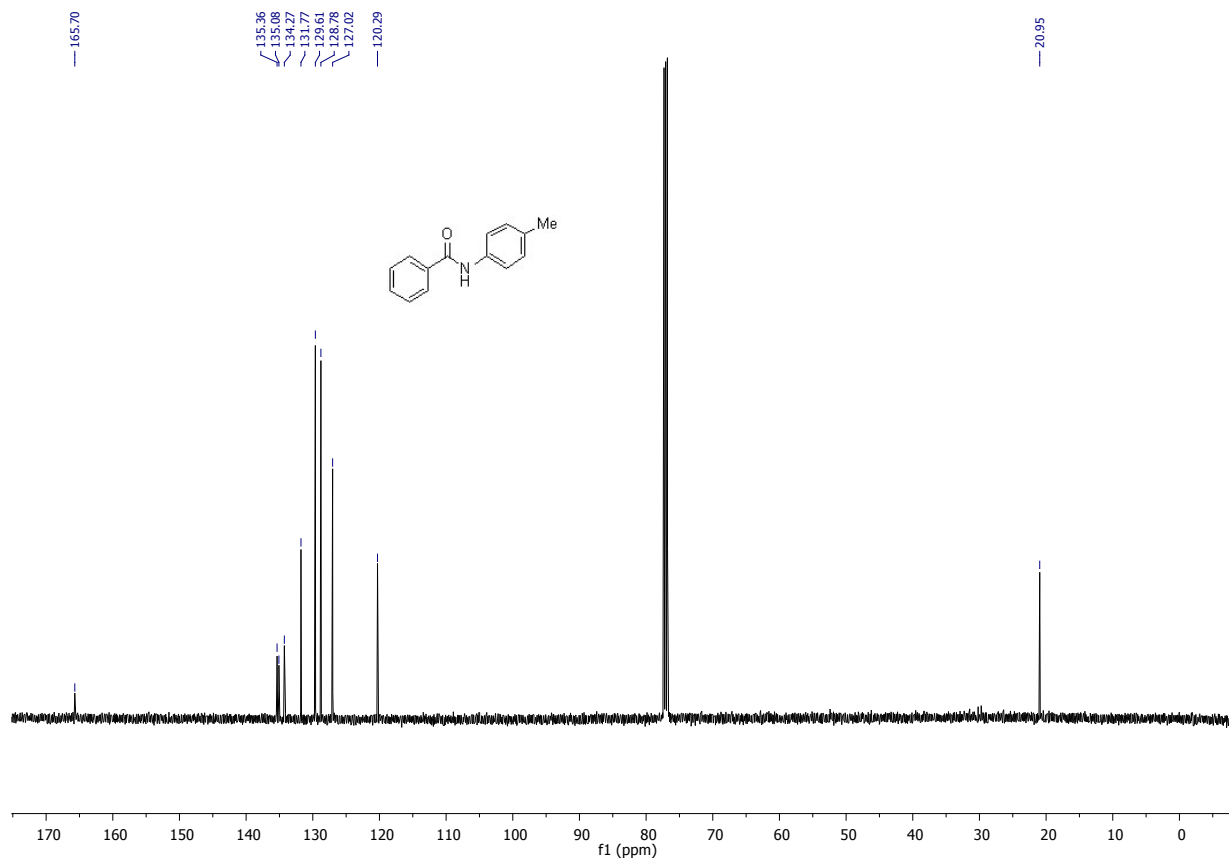
Table of contents

The¹H and ¹³C NMR spectra of compounds

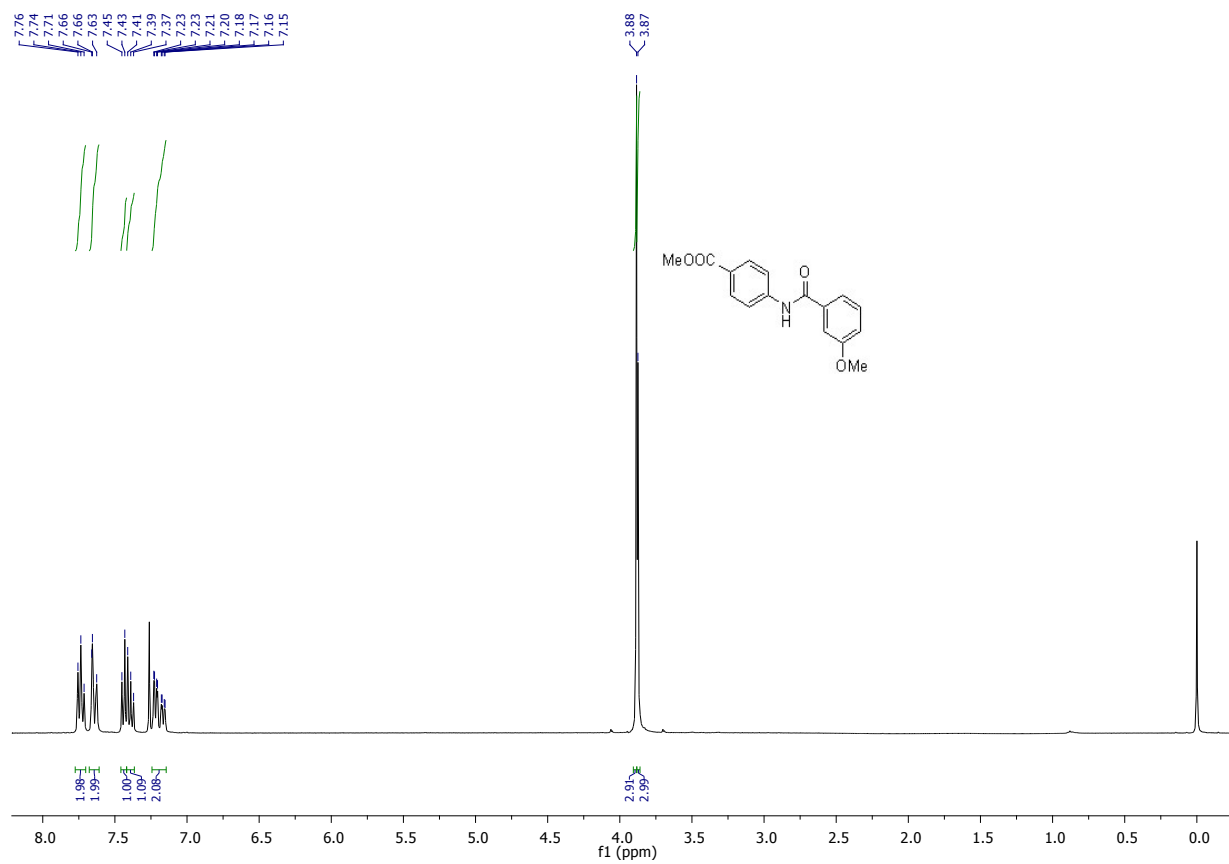
Page 1-42

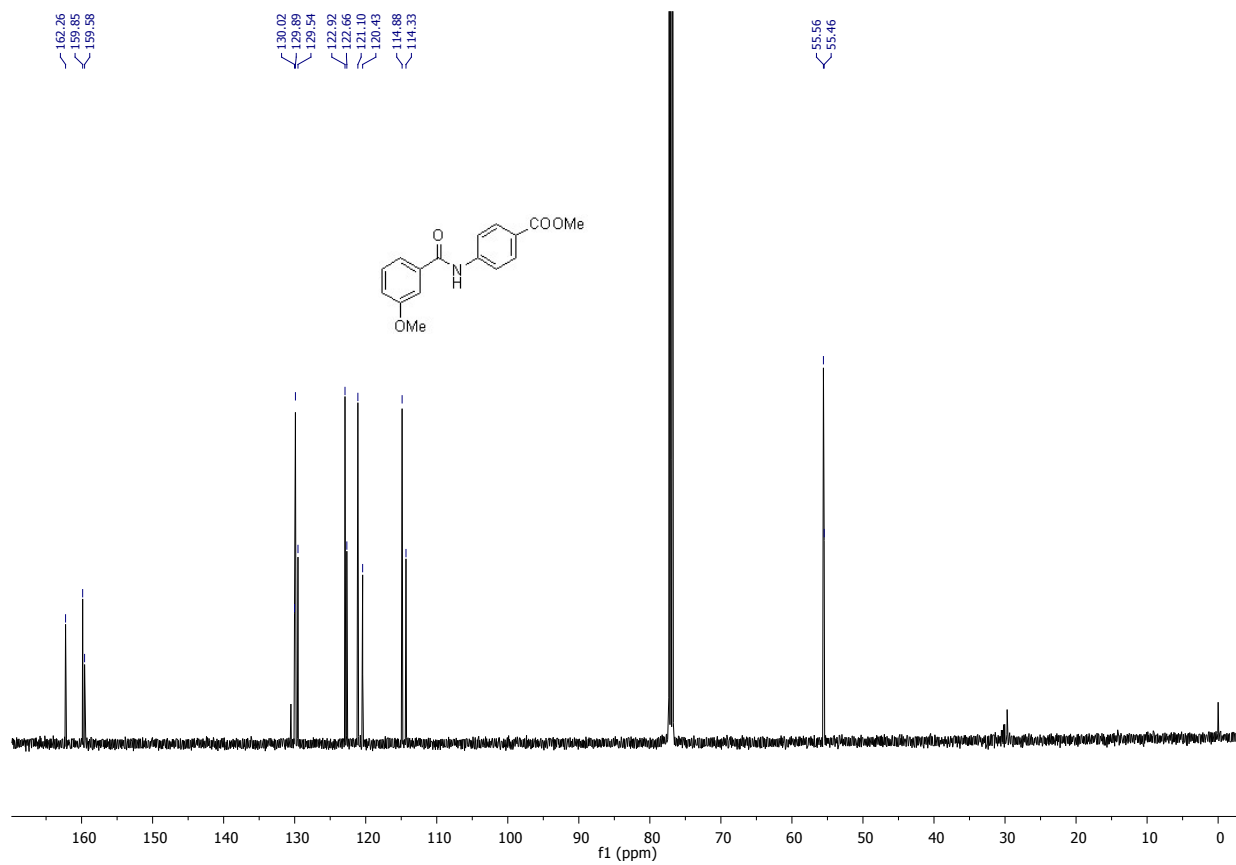
N-(*p*-Tolyl)benzamide(1a): H¹ NMR & C¹³ NMR



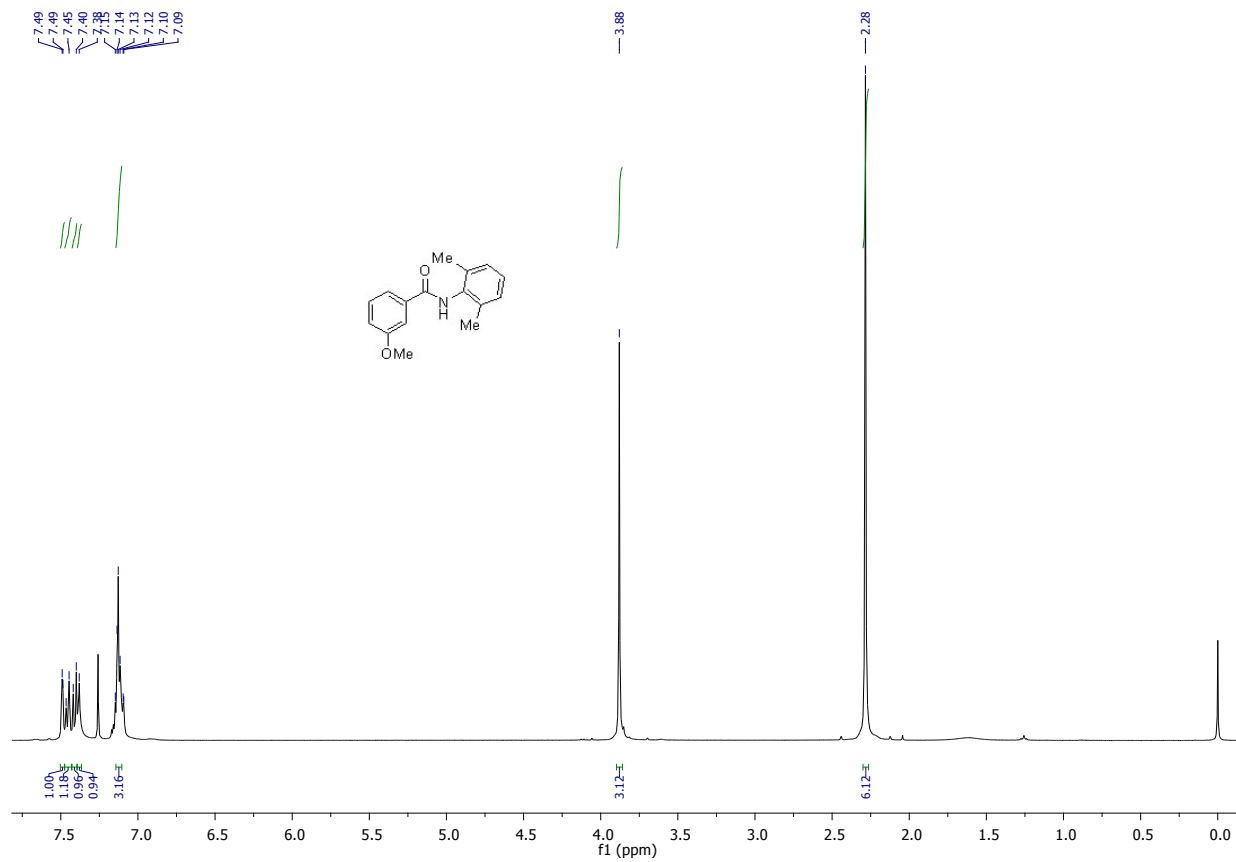


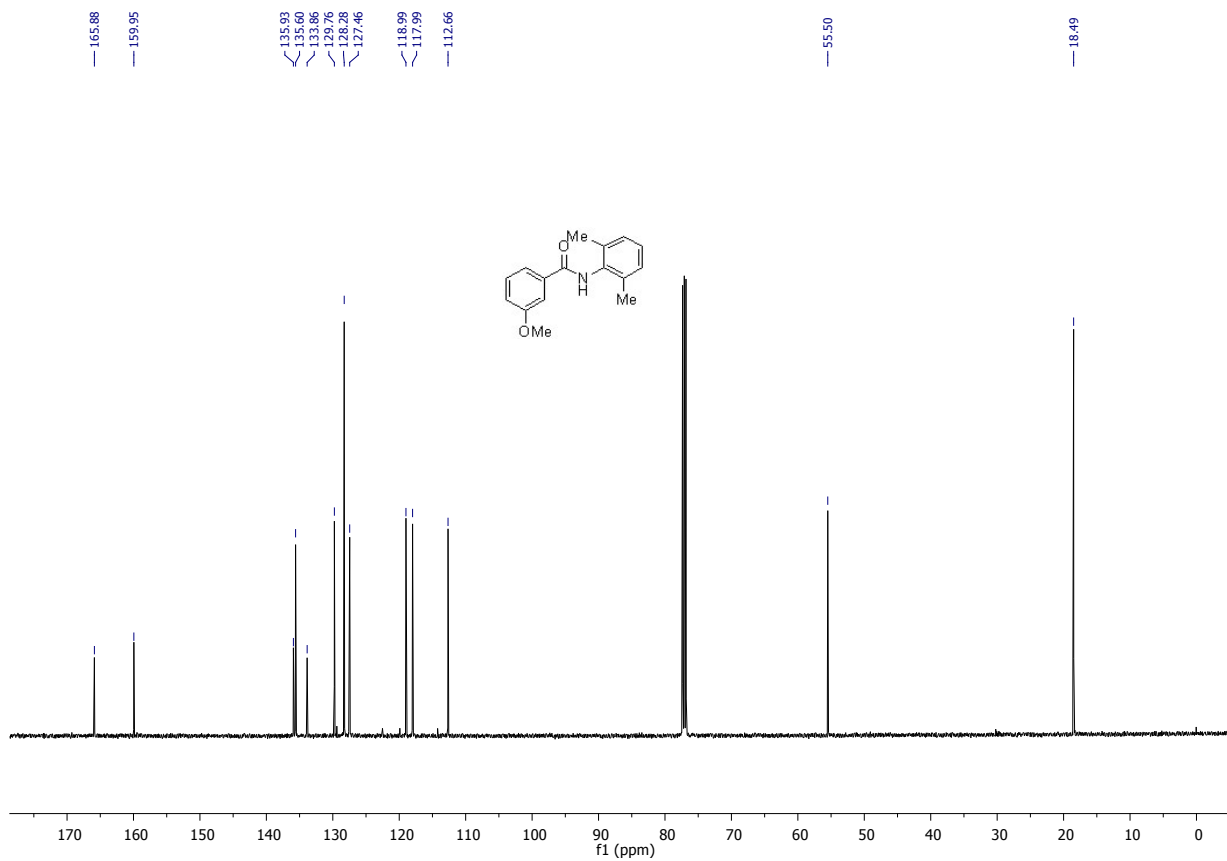
Methyl 4-(3-methoxybenzamido)benzoate(1b): H^1 NMR & C^{13} NMR



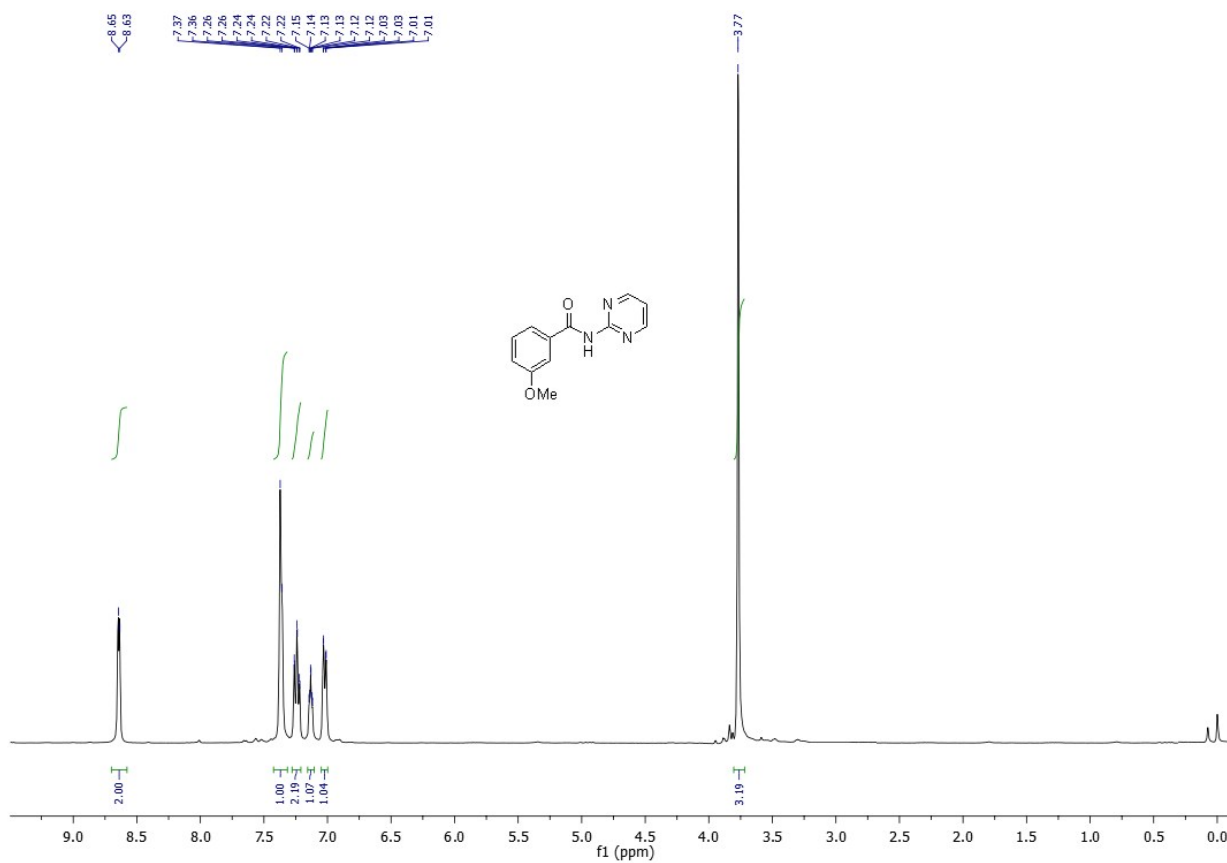


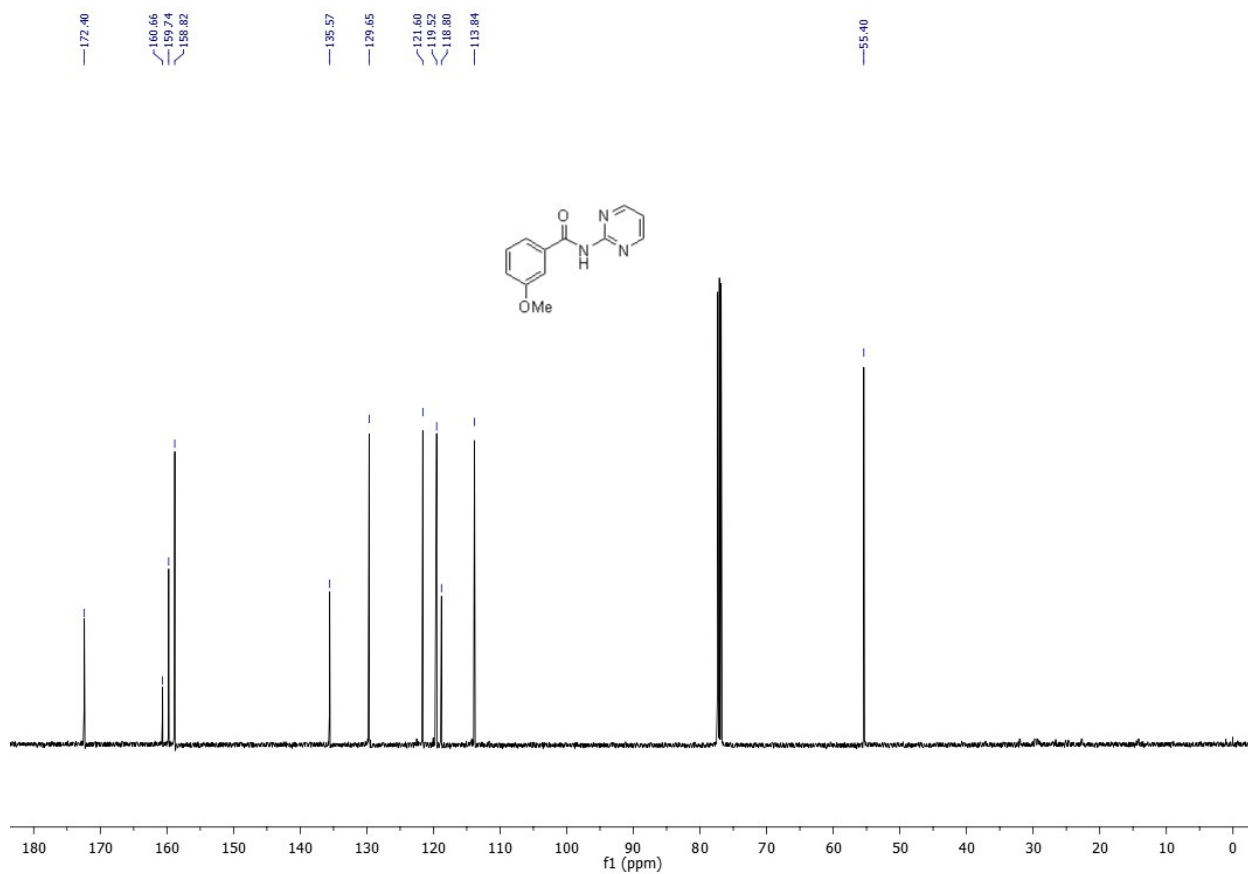
2,6-Dimethyl-N-phenylbenzamide(1c): H¹ NMR & C¹³ NMR



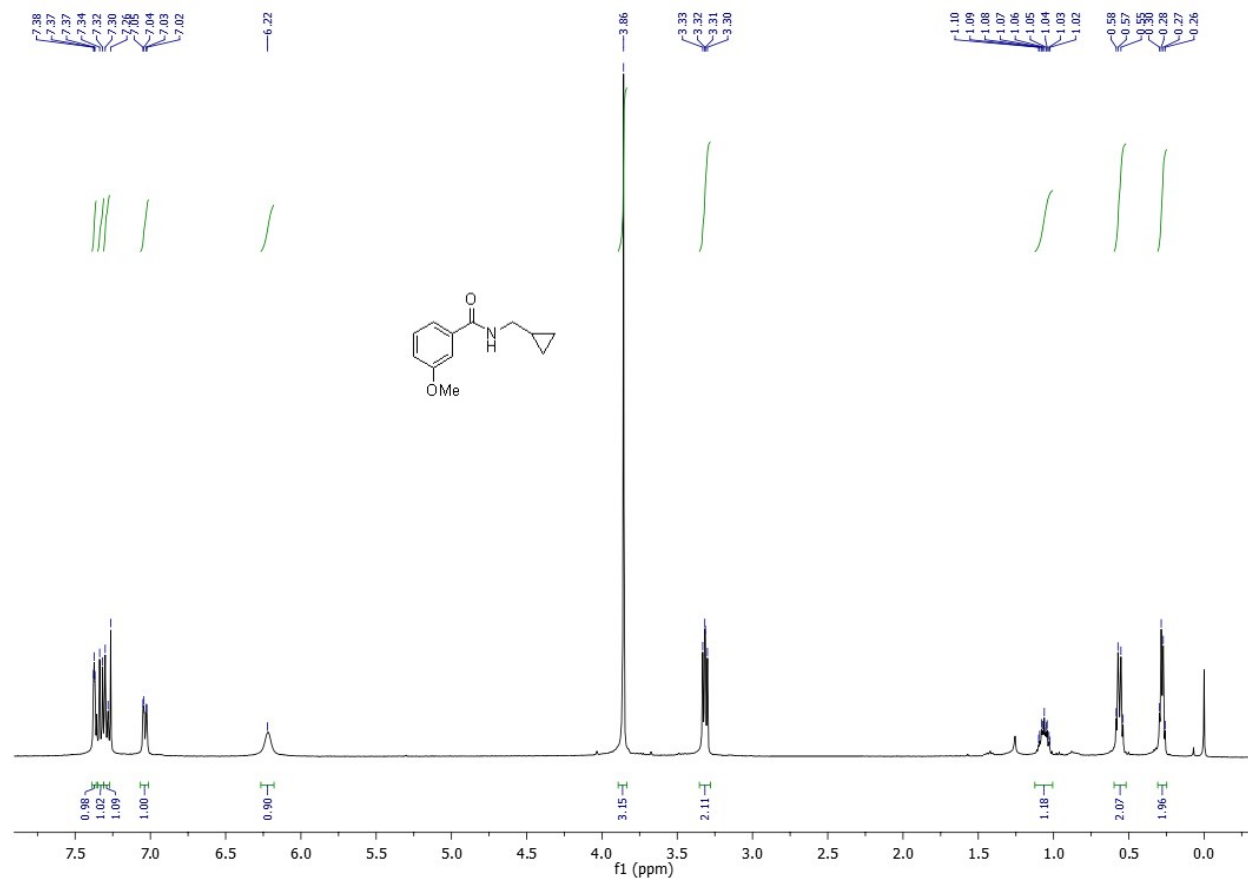


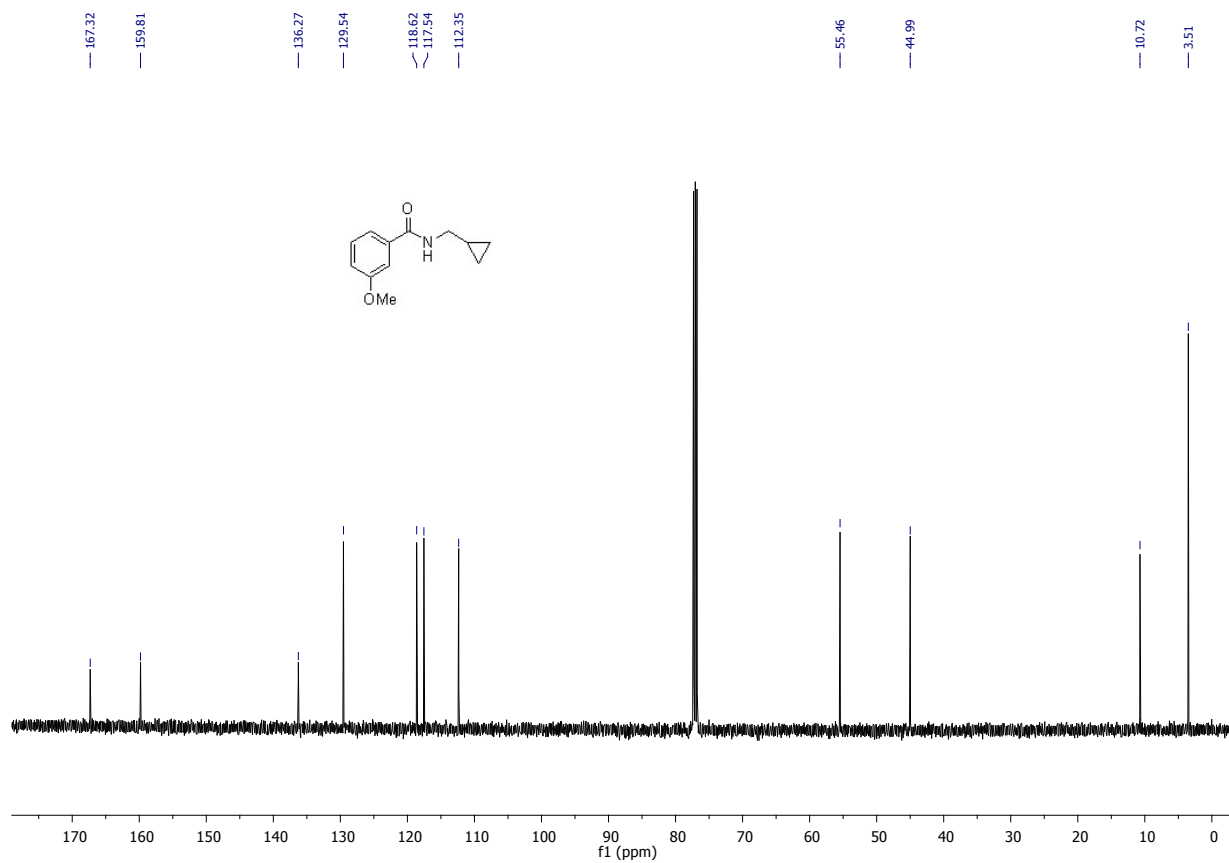
3-Methoxy-N-(pyrimidin-2-yl)benzamide(1d): H^1 NMR & C^{13} NMR



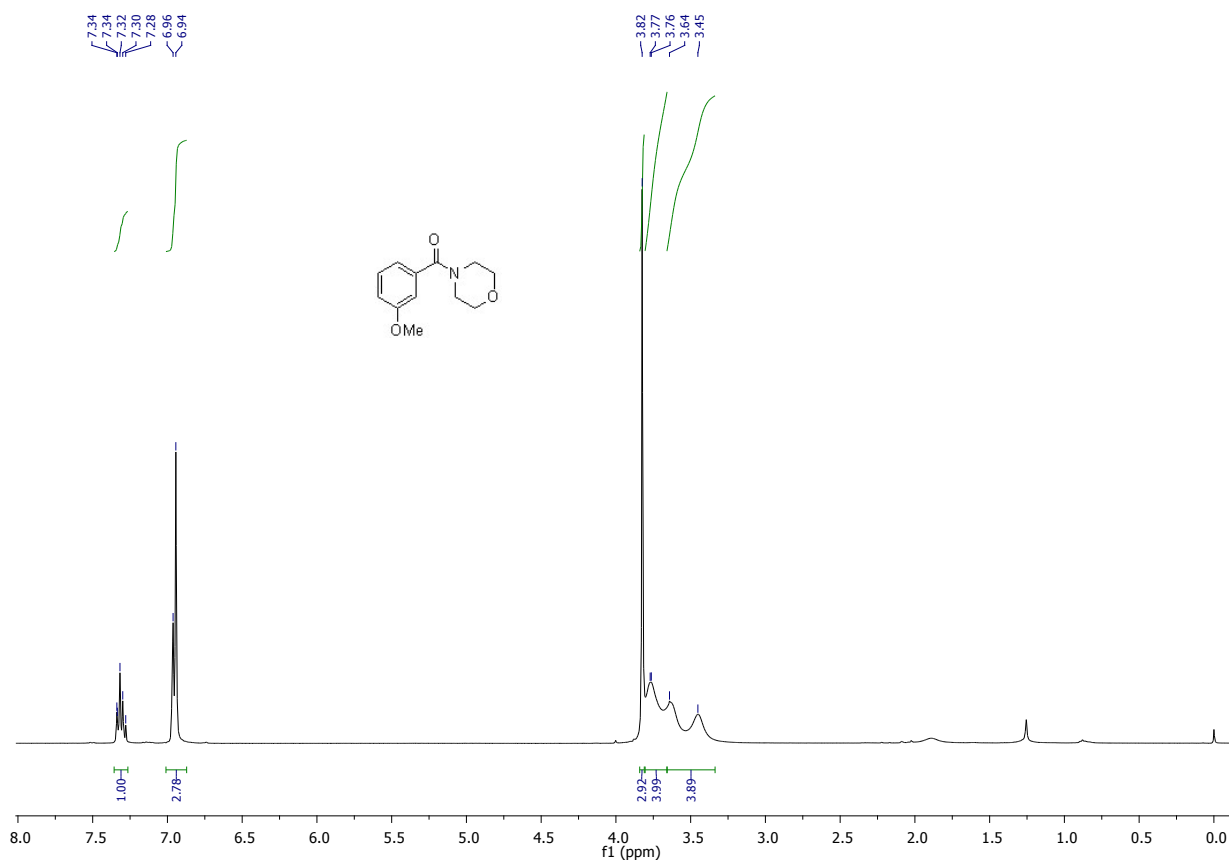


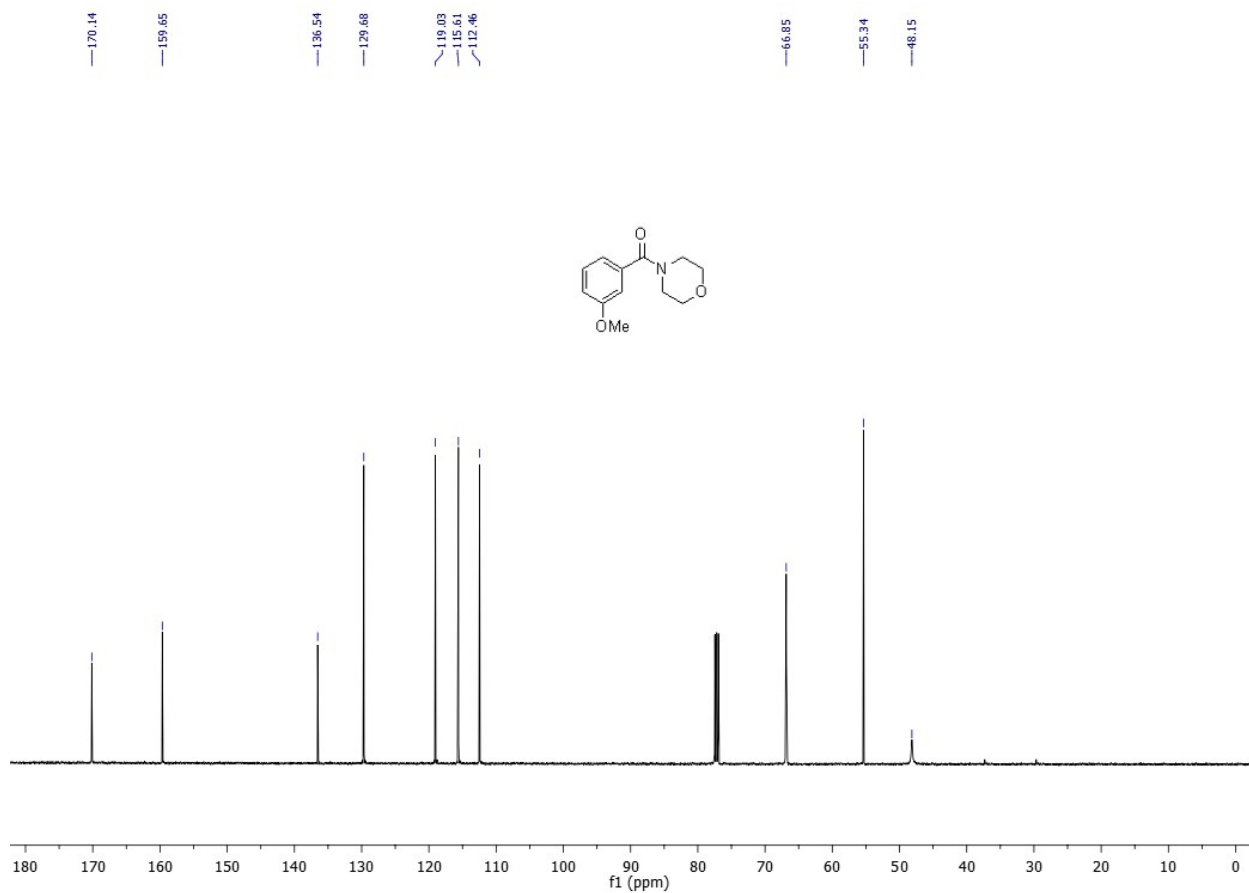
***N*-(Cyclopropylmethyl)-3-methoxybenzamide(1e): H^1 NMR & C^{13} NMR**



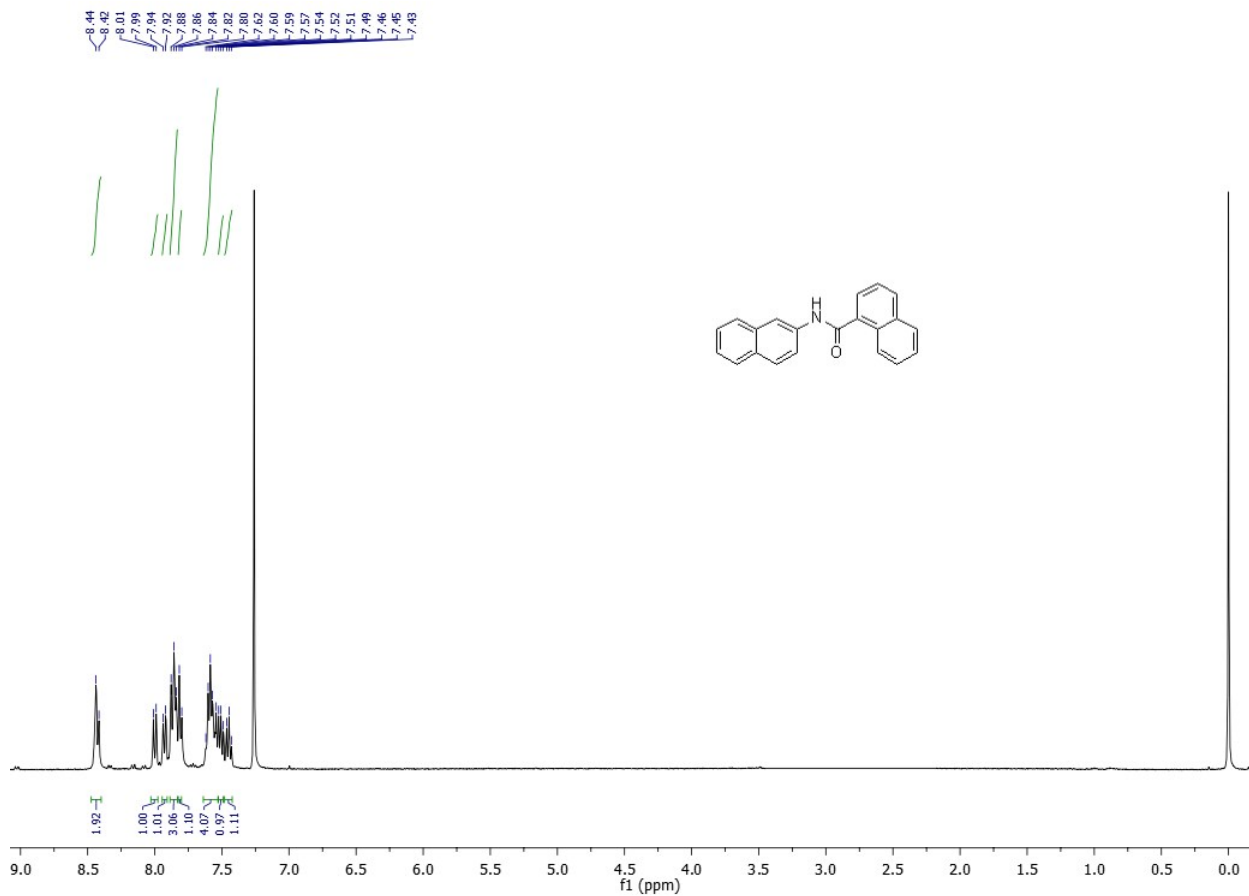


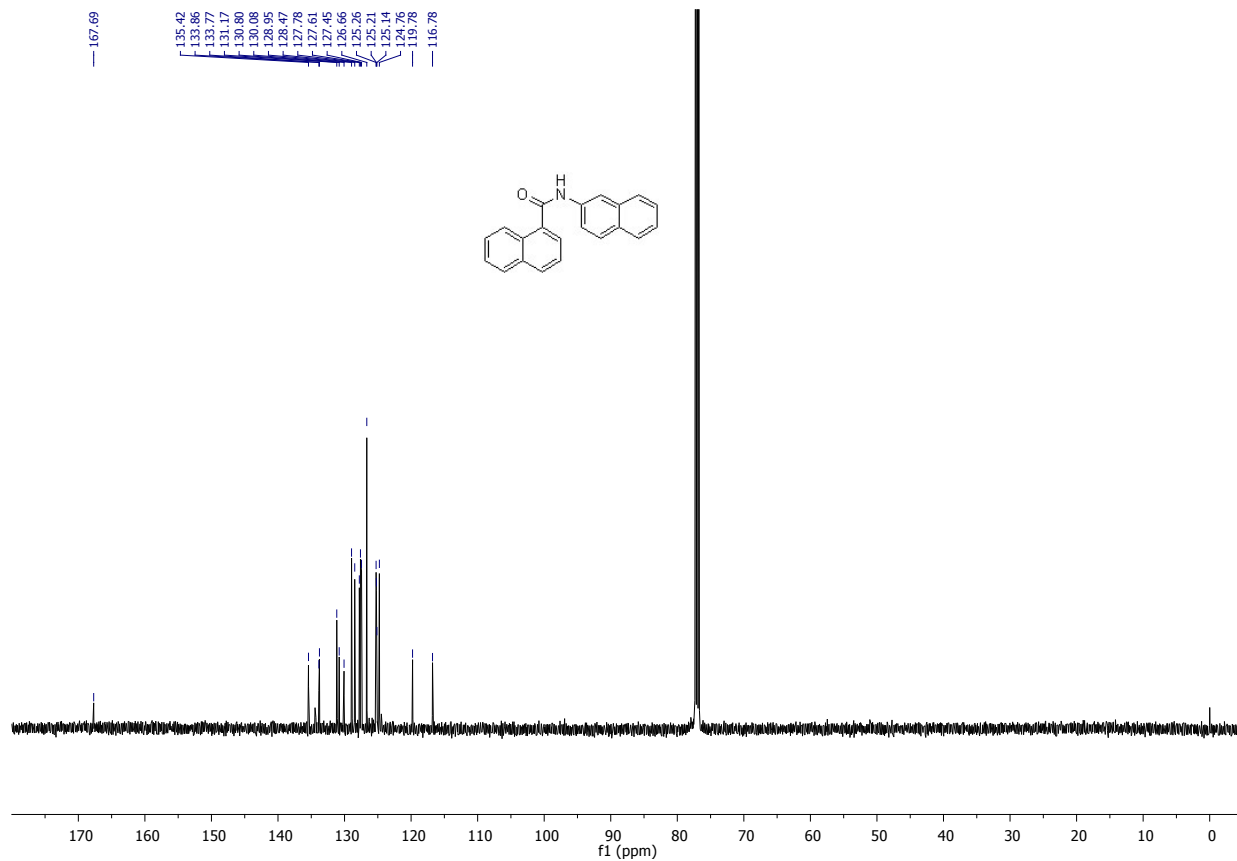
(3-Methoxyphenyl)(morpholino)methanone(1f): H^1 NMR & C^{13} NMR



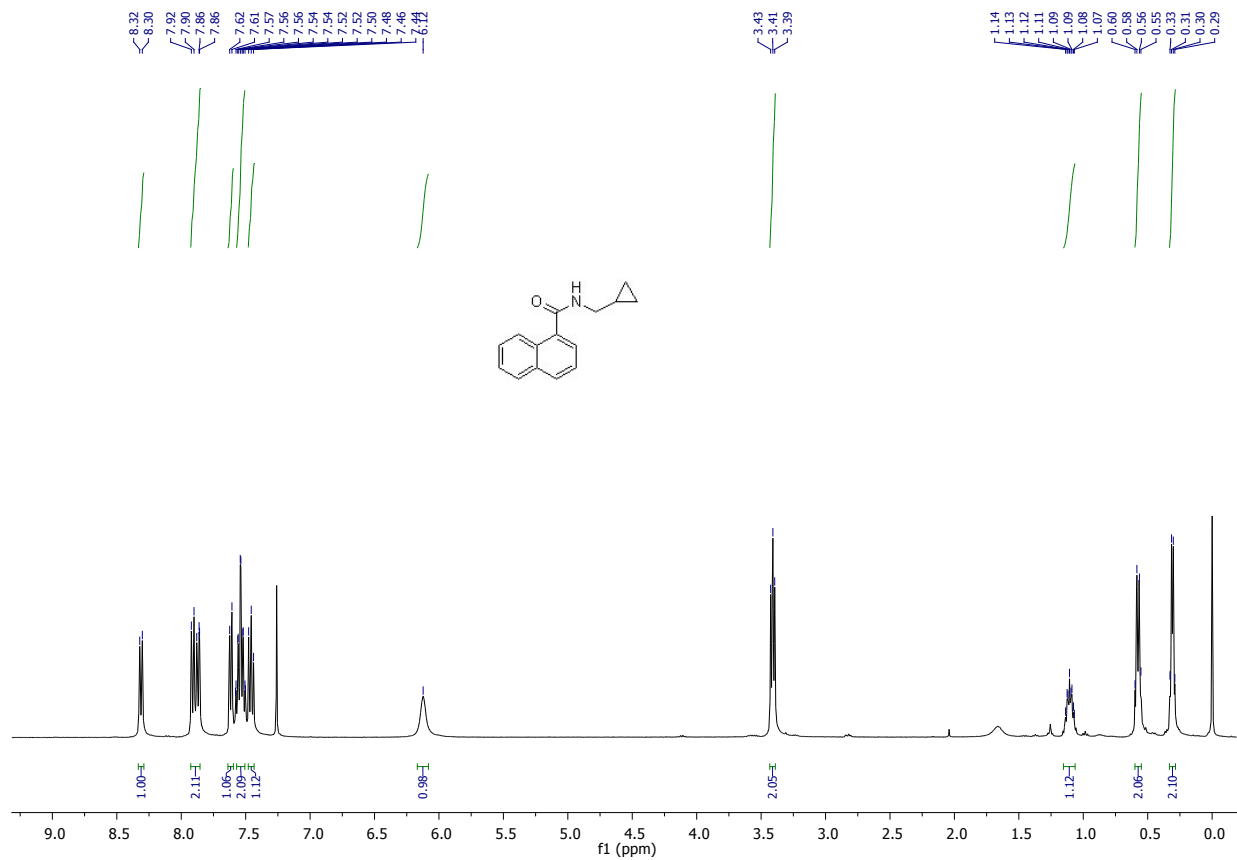


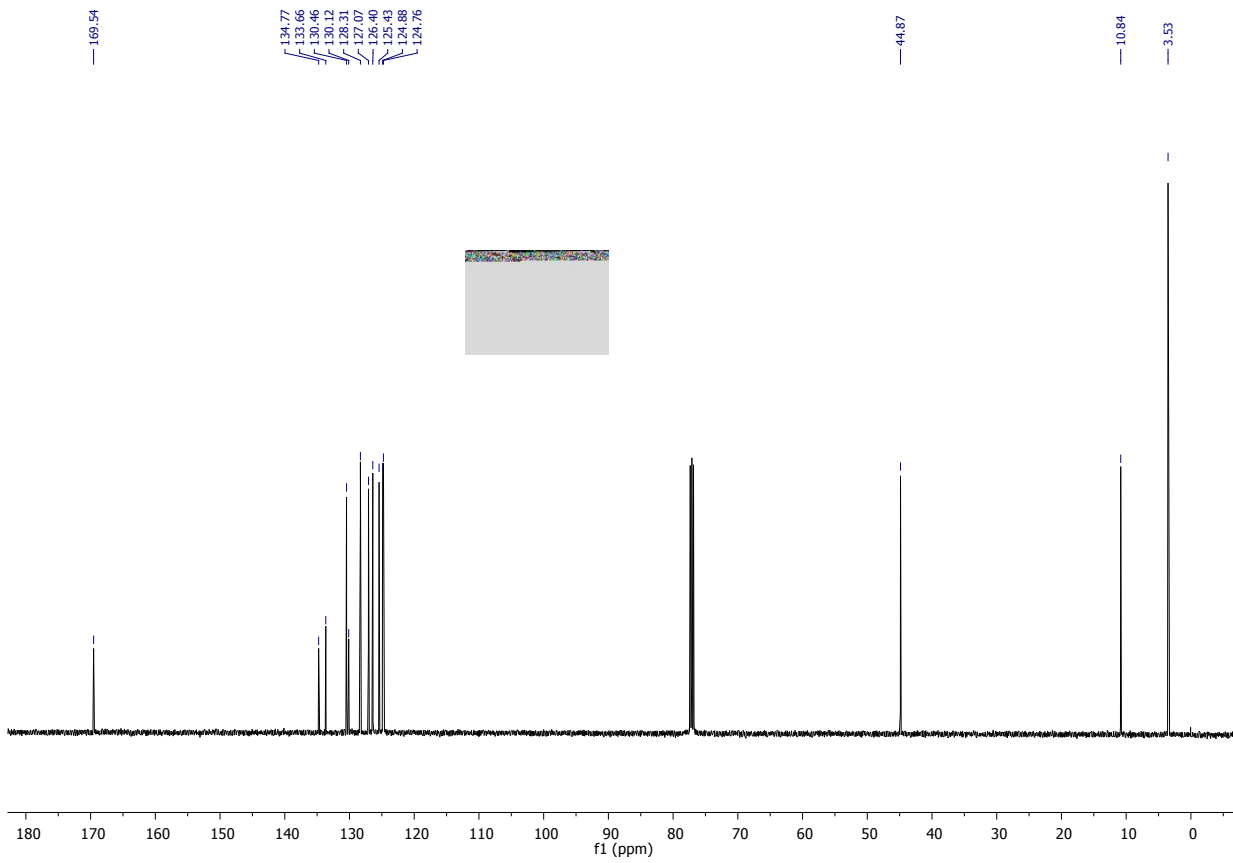
***N*-(Naphthalen-2-yl)-1-naphthamide(1g): H^1 NMR & C^{13} NMR**



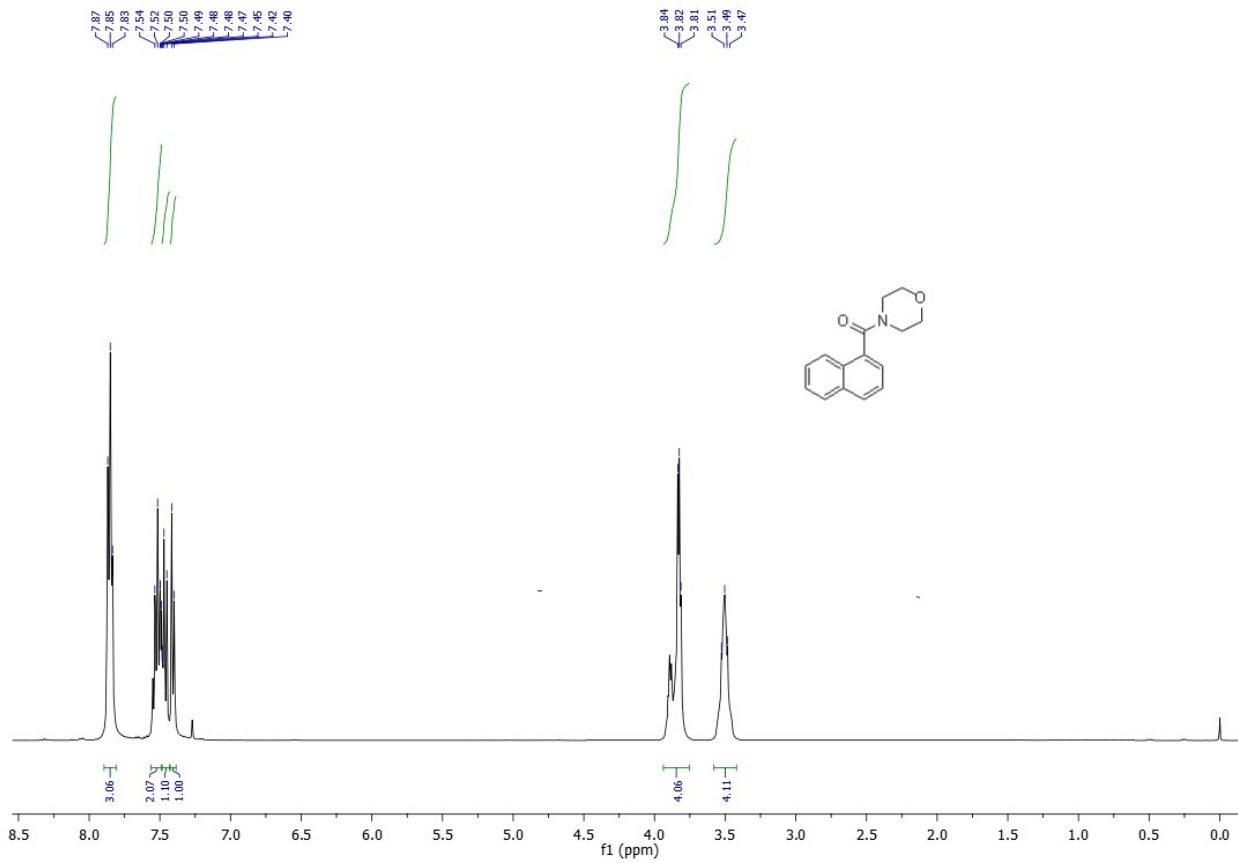


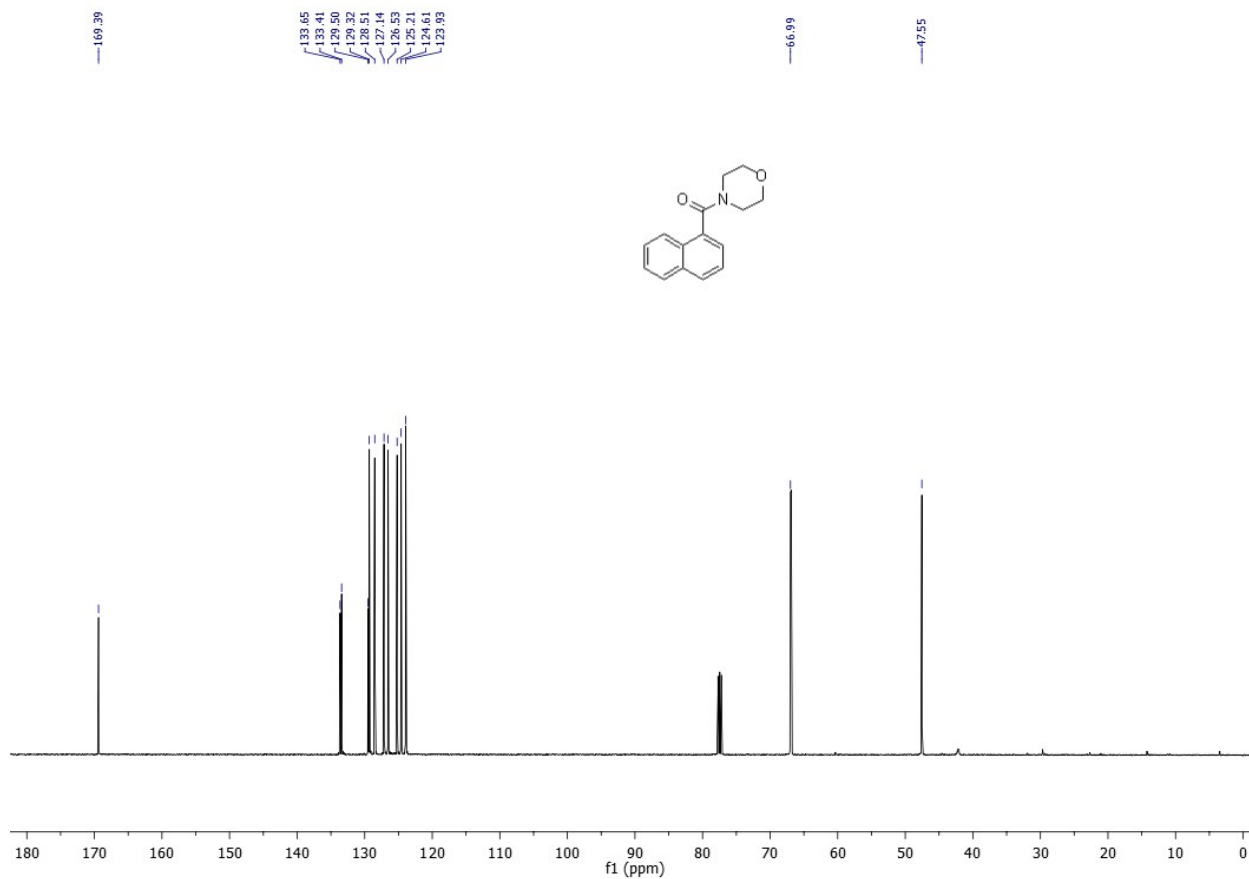
N-(Cyclopropylmethyl)-1-naphthamide(1h): H¹ NMR & C¹³ NMR



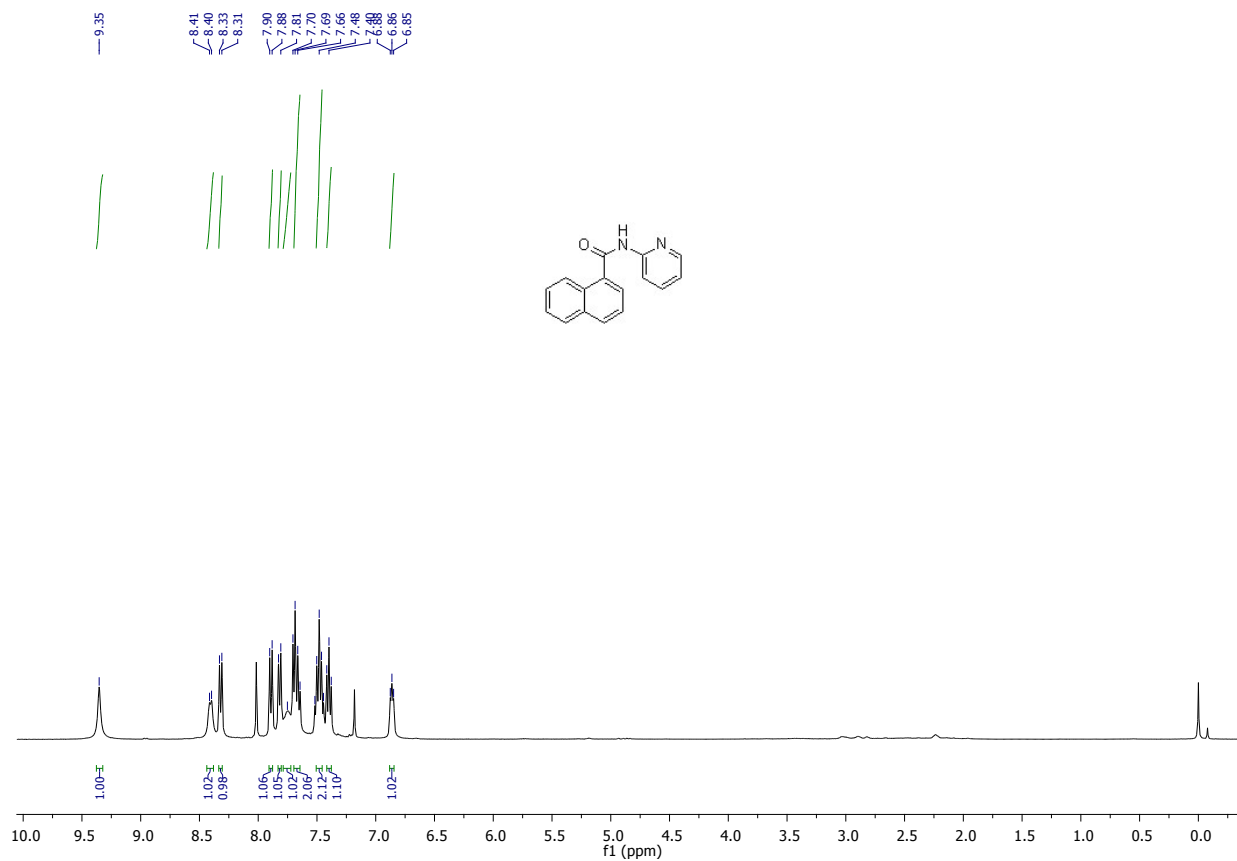


Naphthalen-1-yl(piperidin-1-yl)methanone(1i): H^1 NMR & C^{13} NMR

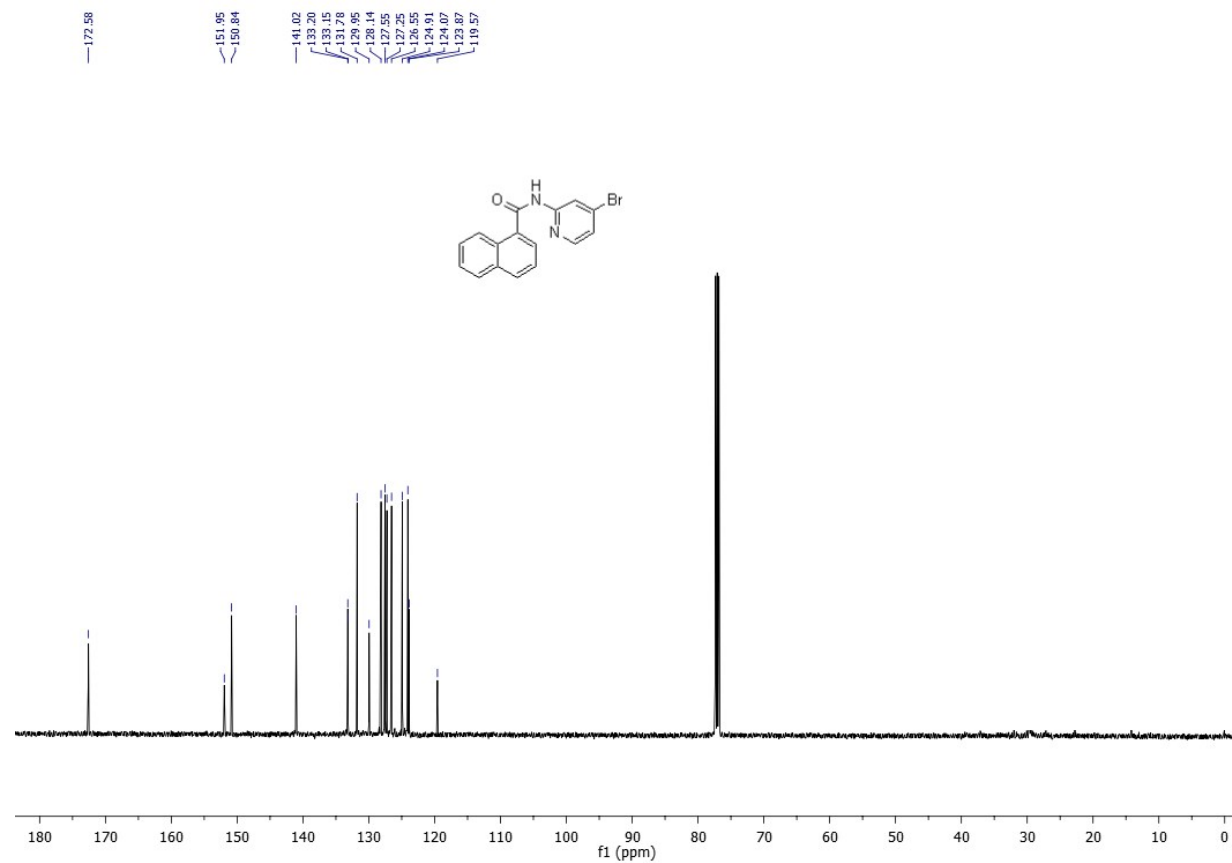
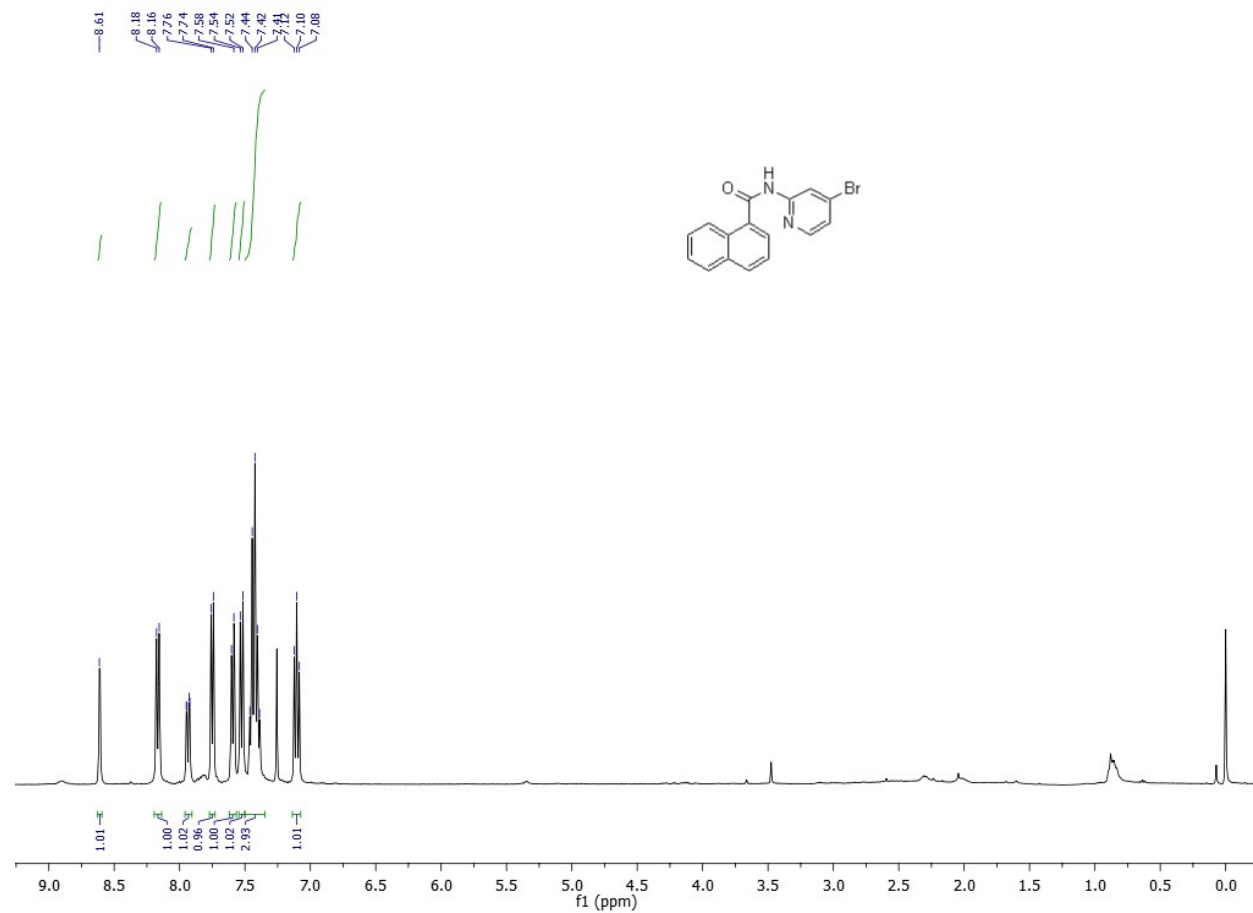




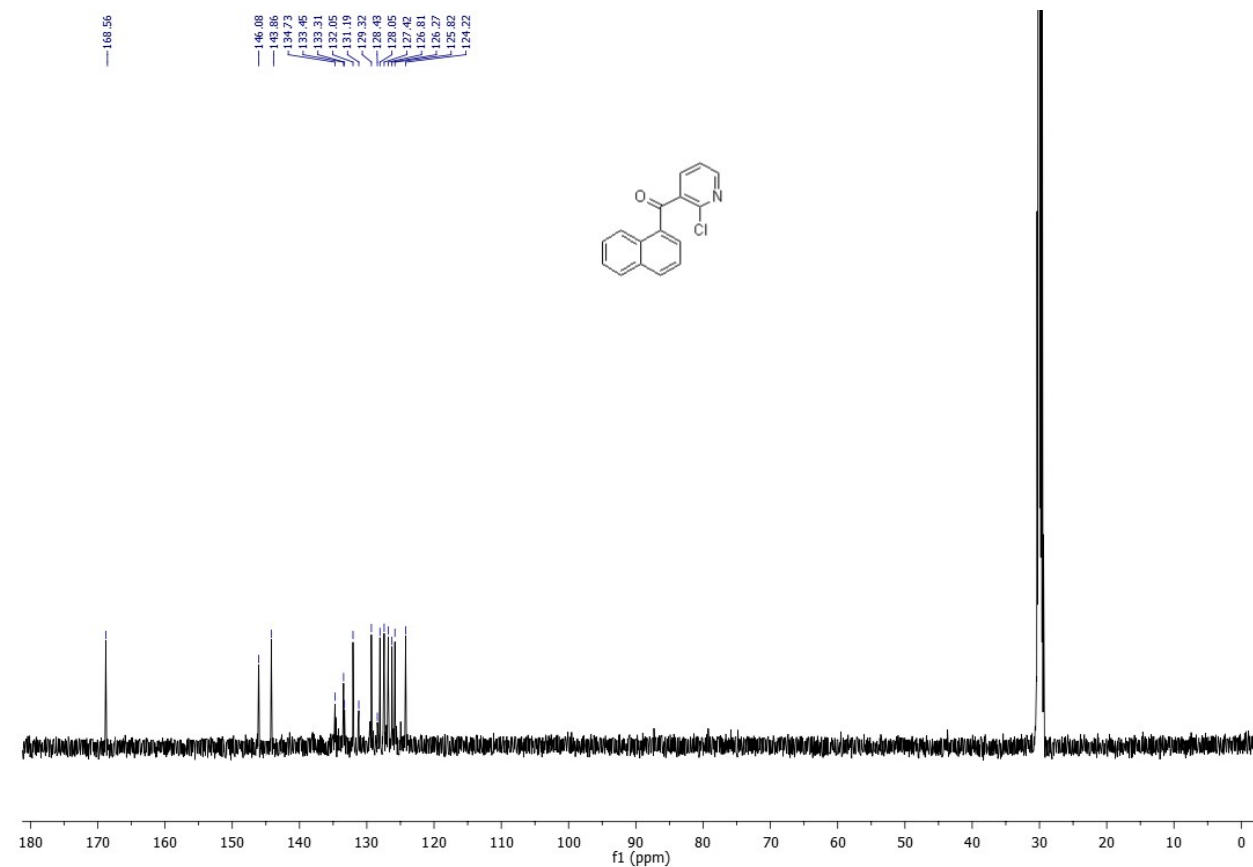
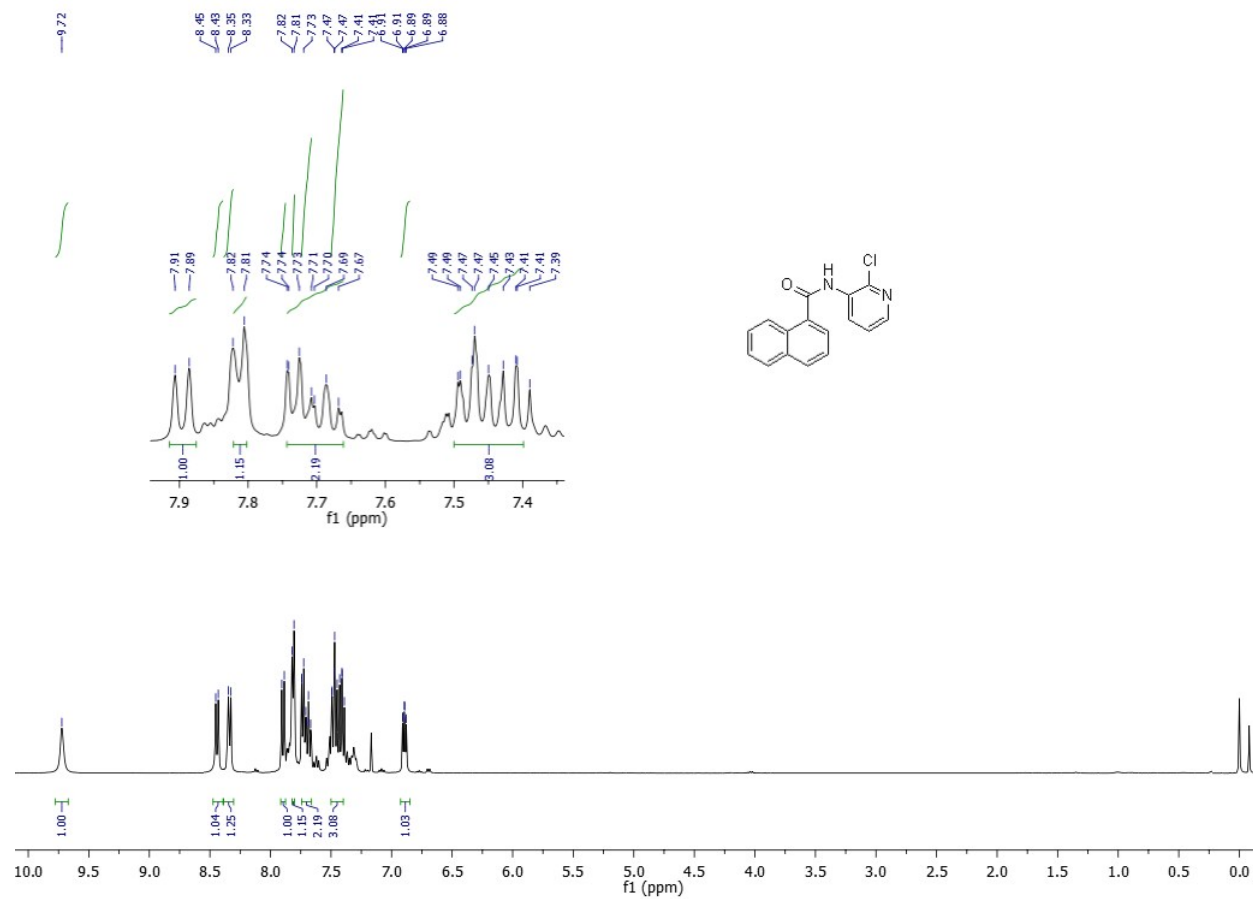
***N*-(Pyridin-2-yl)-1-naphthamide(1j): H^1 NMR**



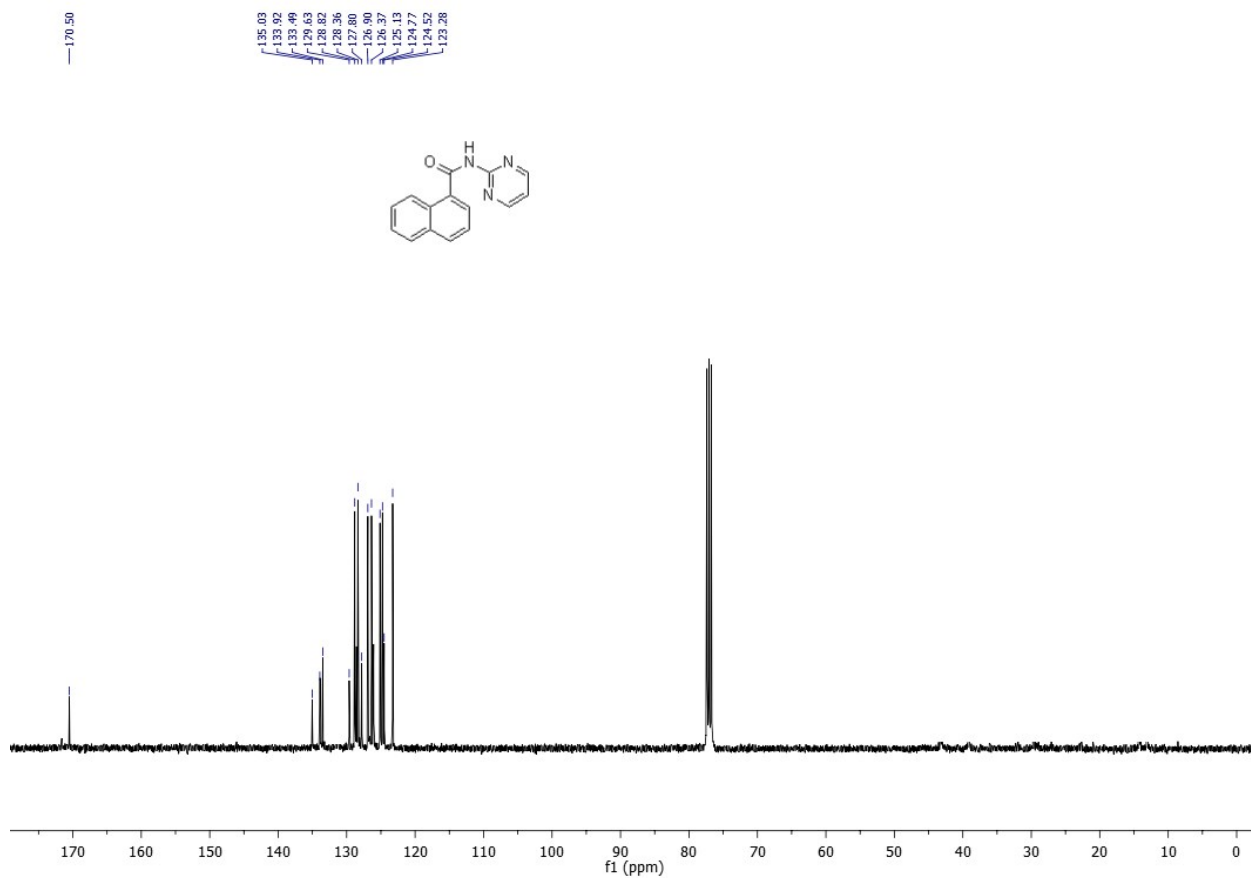
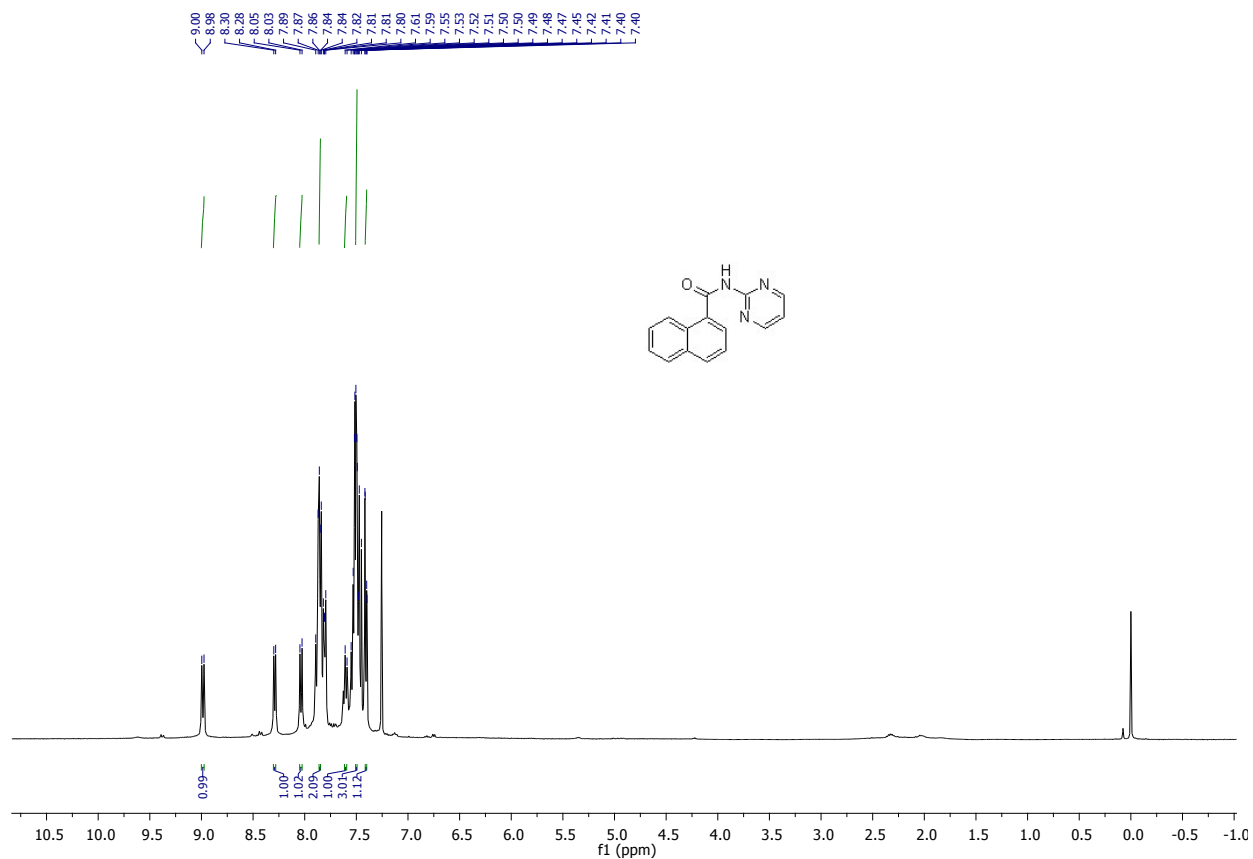
***N*-(4-Bromopyridin-2-yl)-1-naphthamide(1k): H¹ NMR & C¹³ NMR**



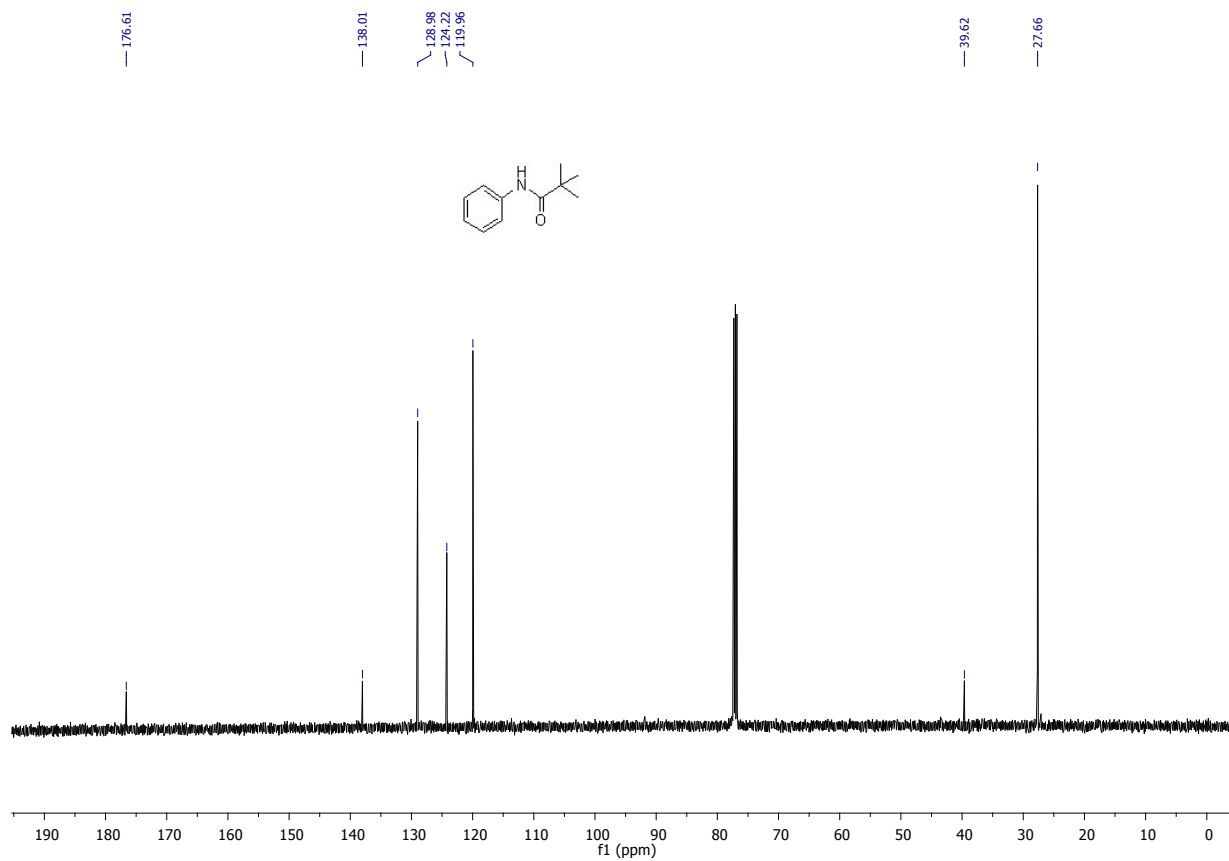
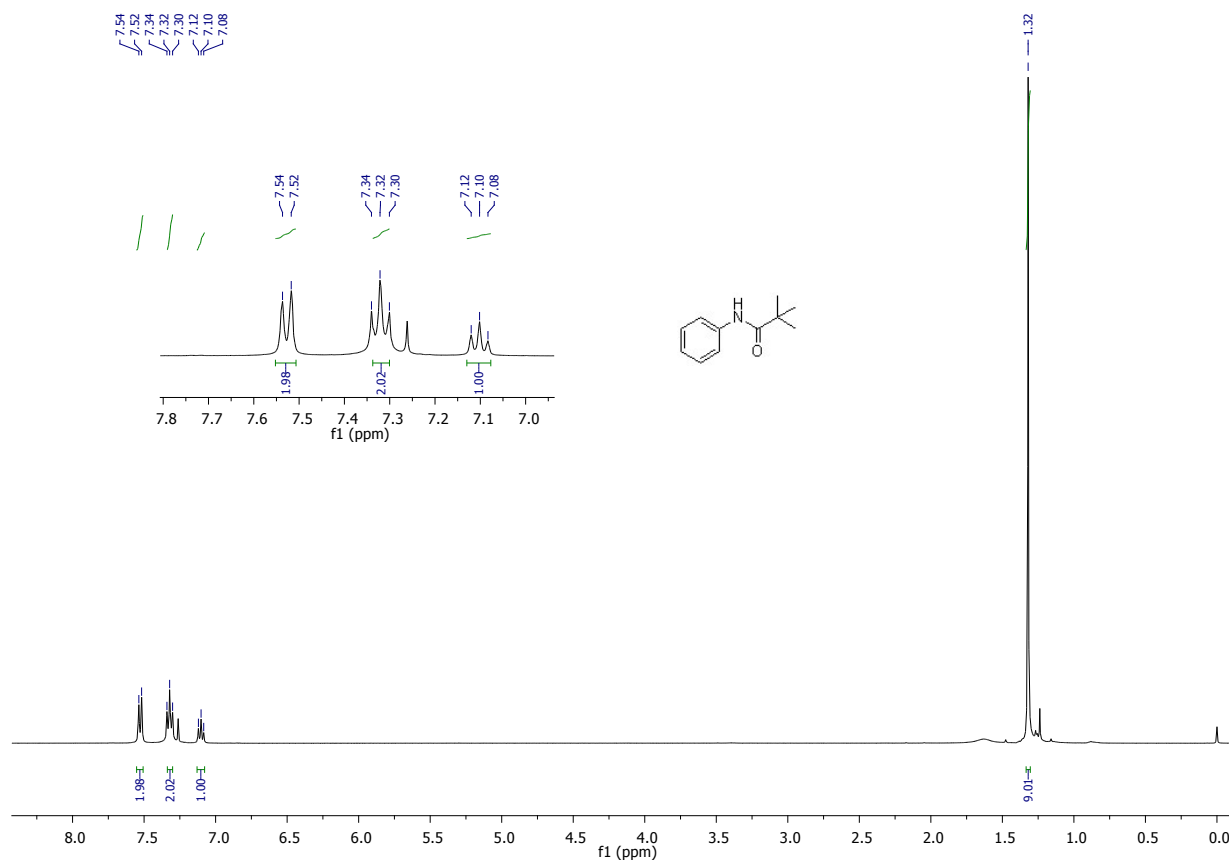
***N*-(2-Chloropyridin-3-yl)-1-naphthamide(1): H^1 NMR & C^{13} NMR**



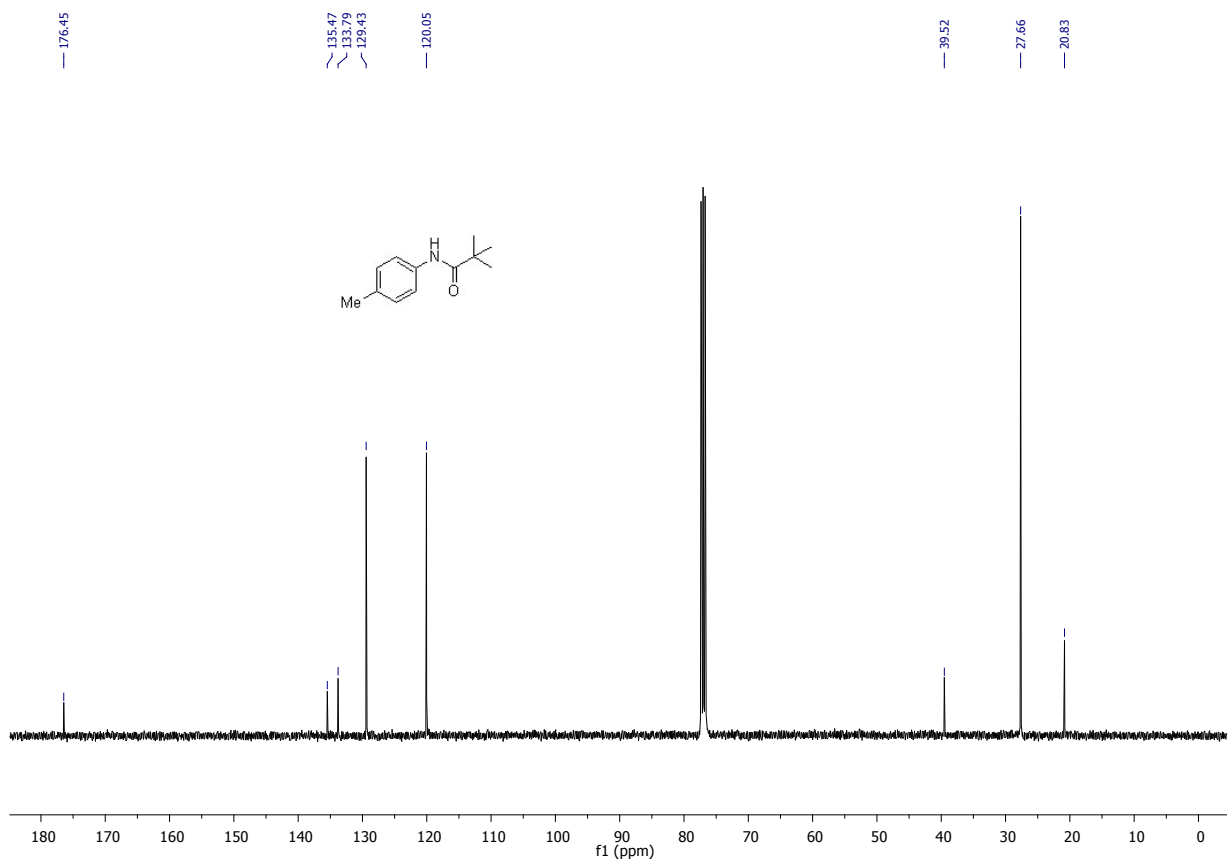
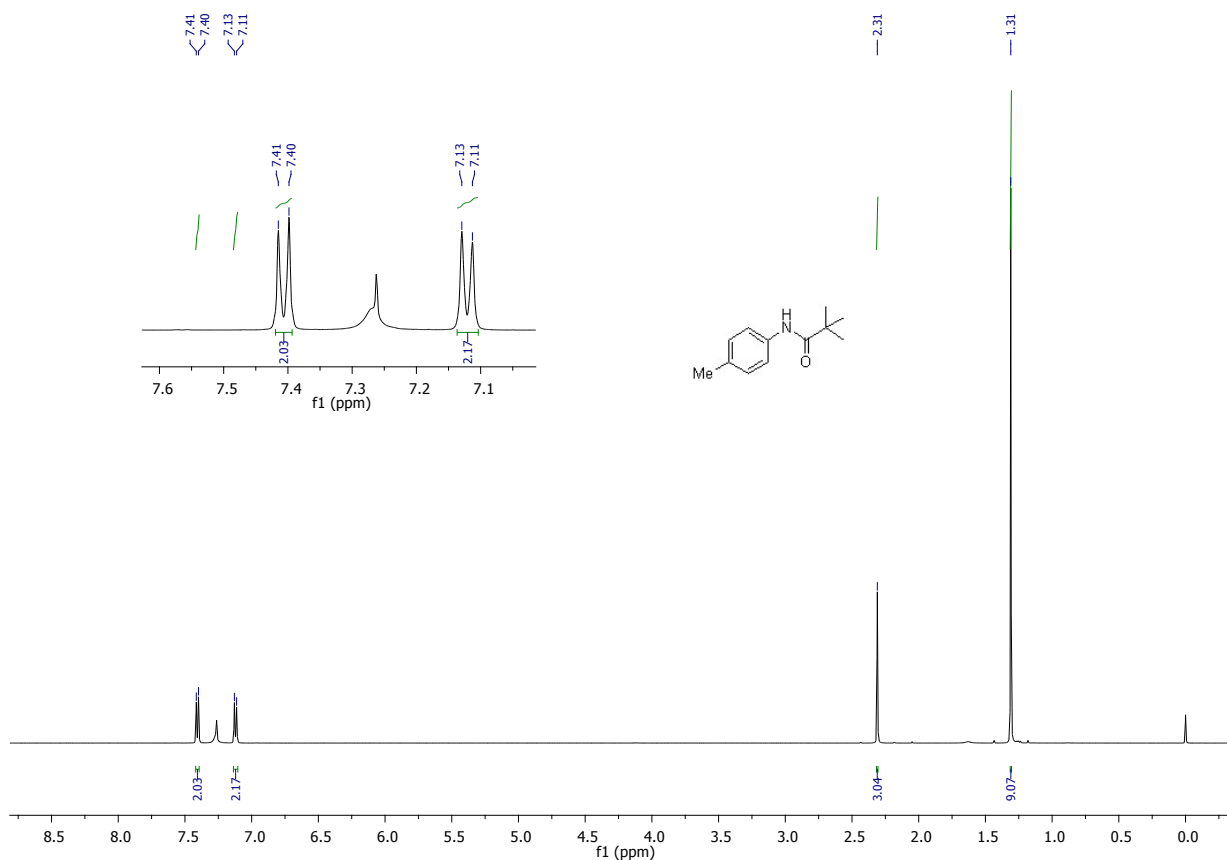
N-(Pyrimidin-2-yl)-1-naphthamide(1m): H¹ NMR & C¹³ NMR



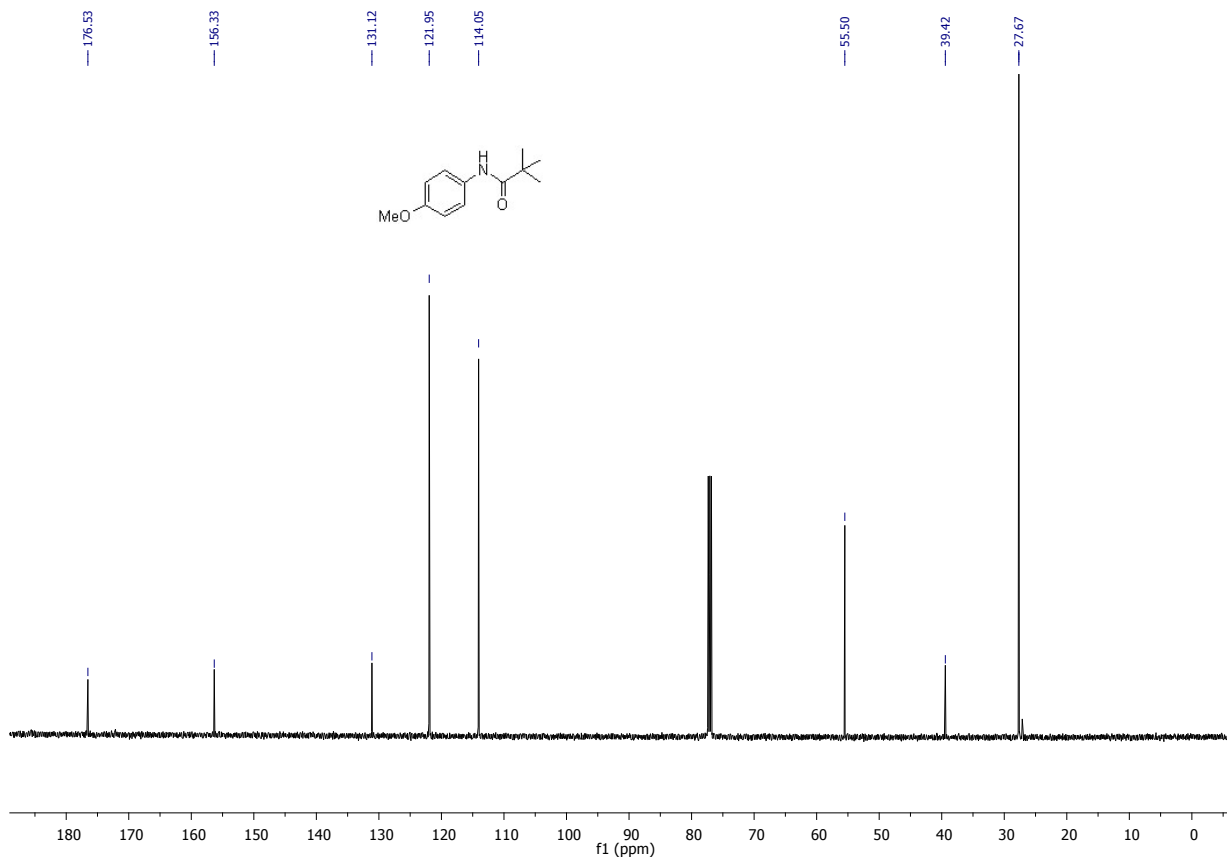
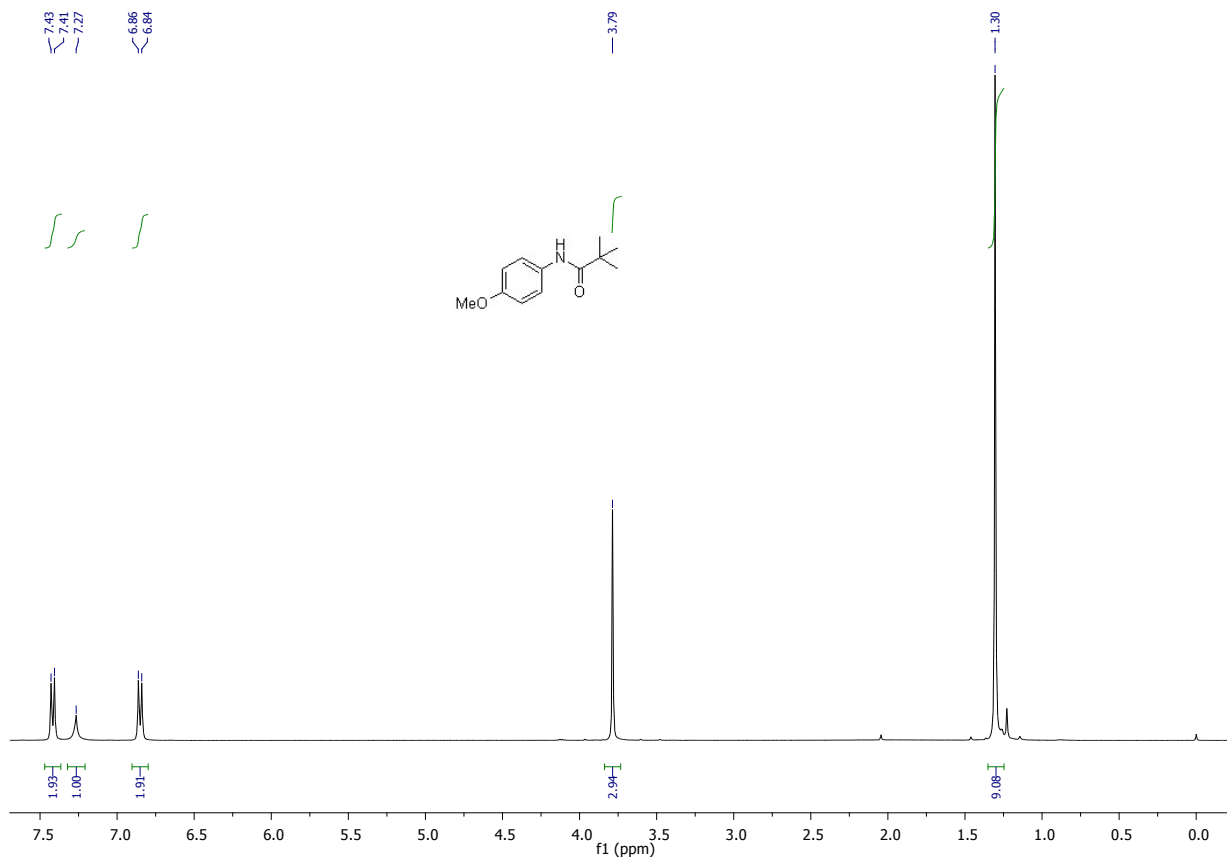
N-Phenylpivalamide(2a): H¹ NMR & C¹³ NMR



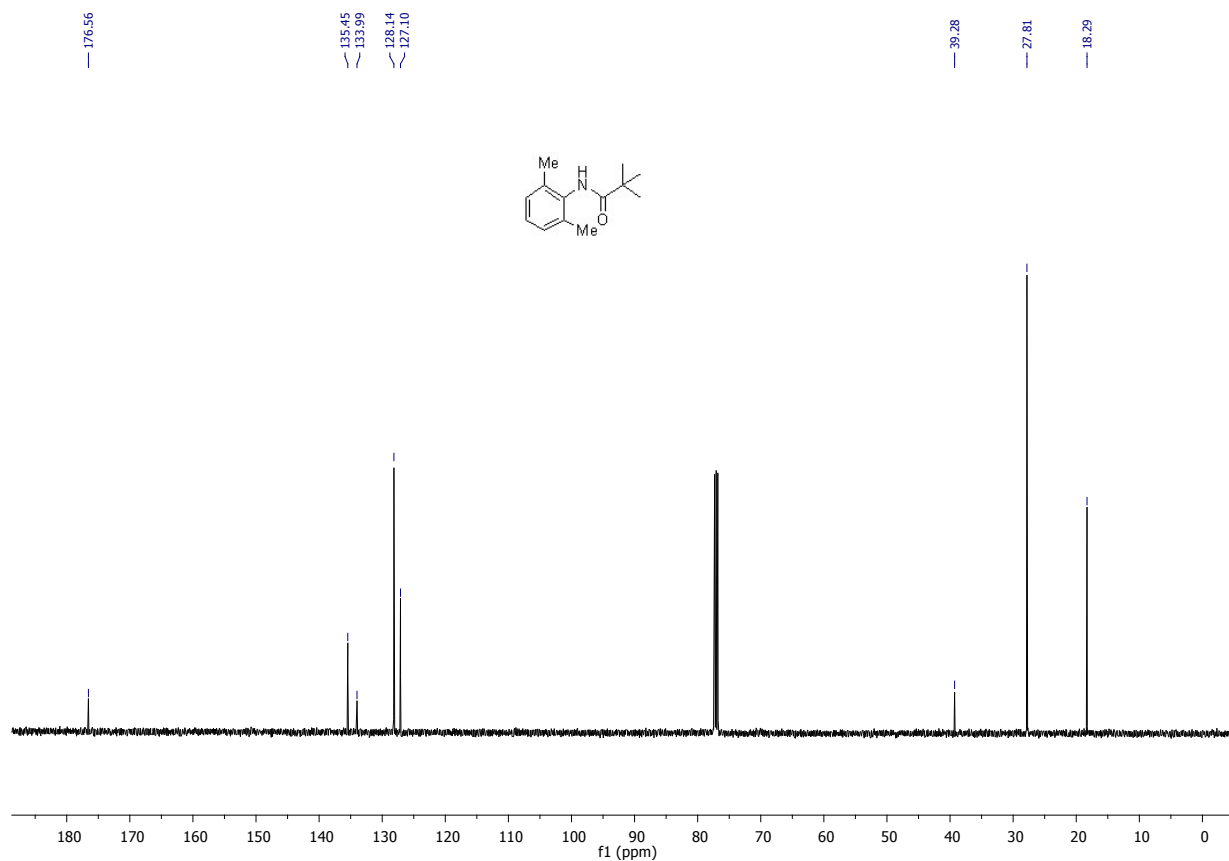
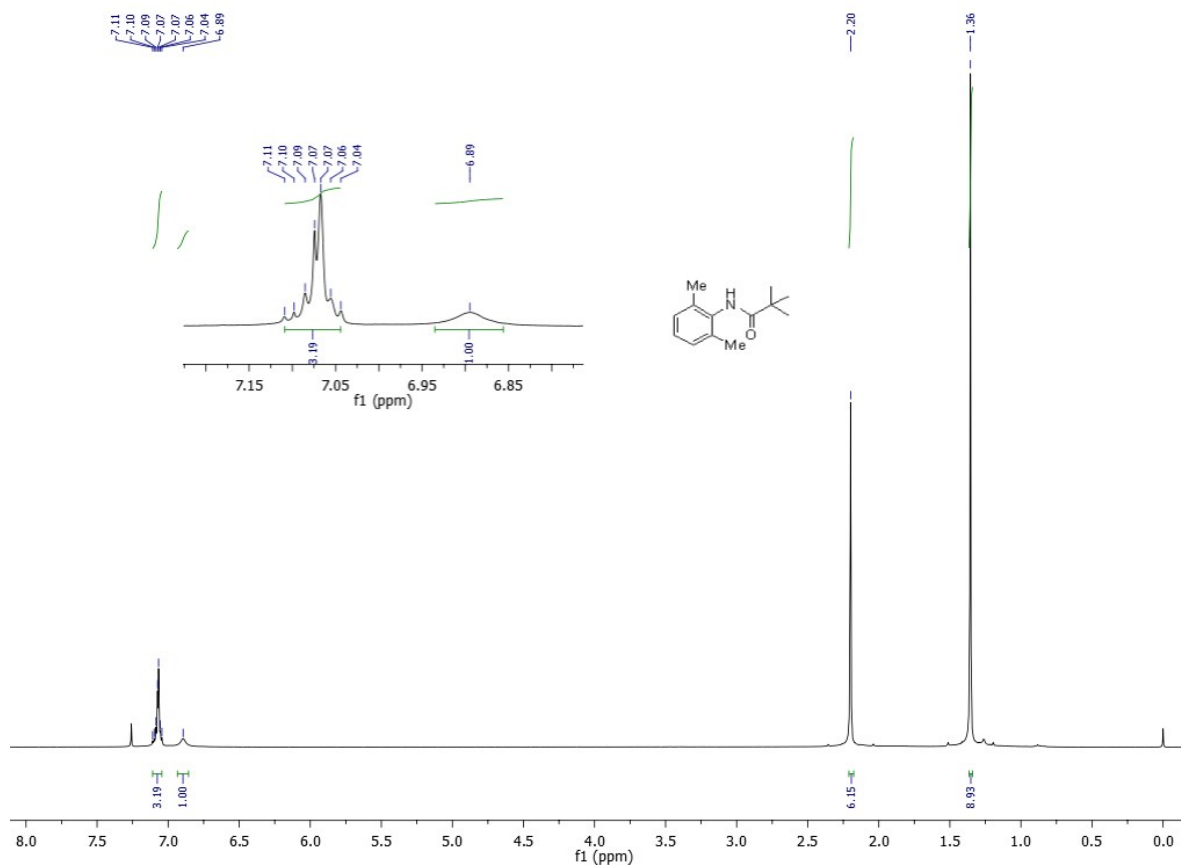
N-(*p*-Tolyl)pivalamide(2b): H^1 NMR & C^{13} NMR



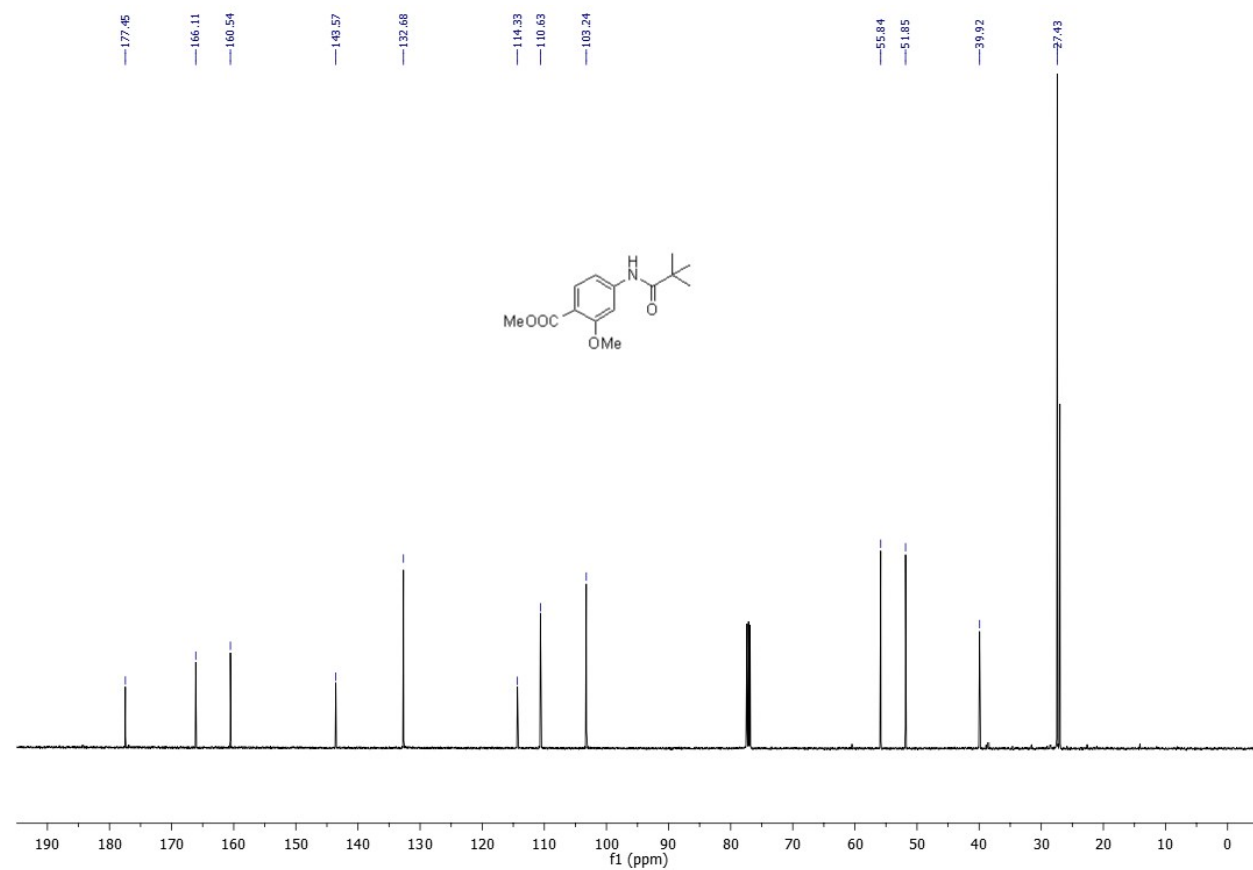
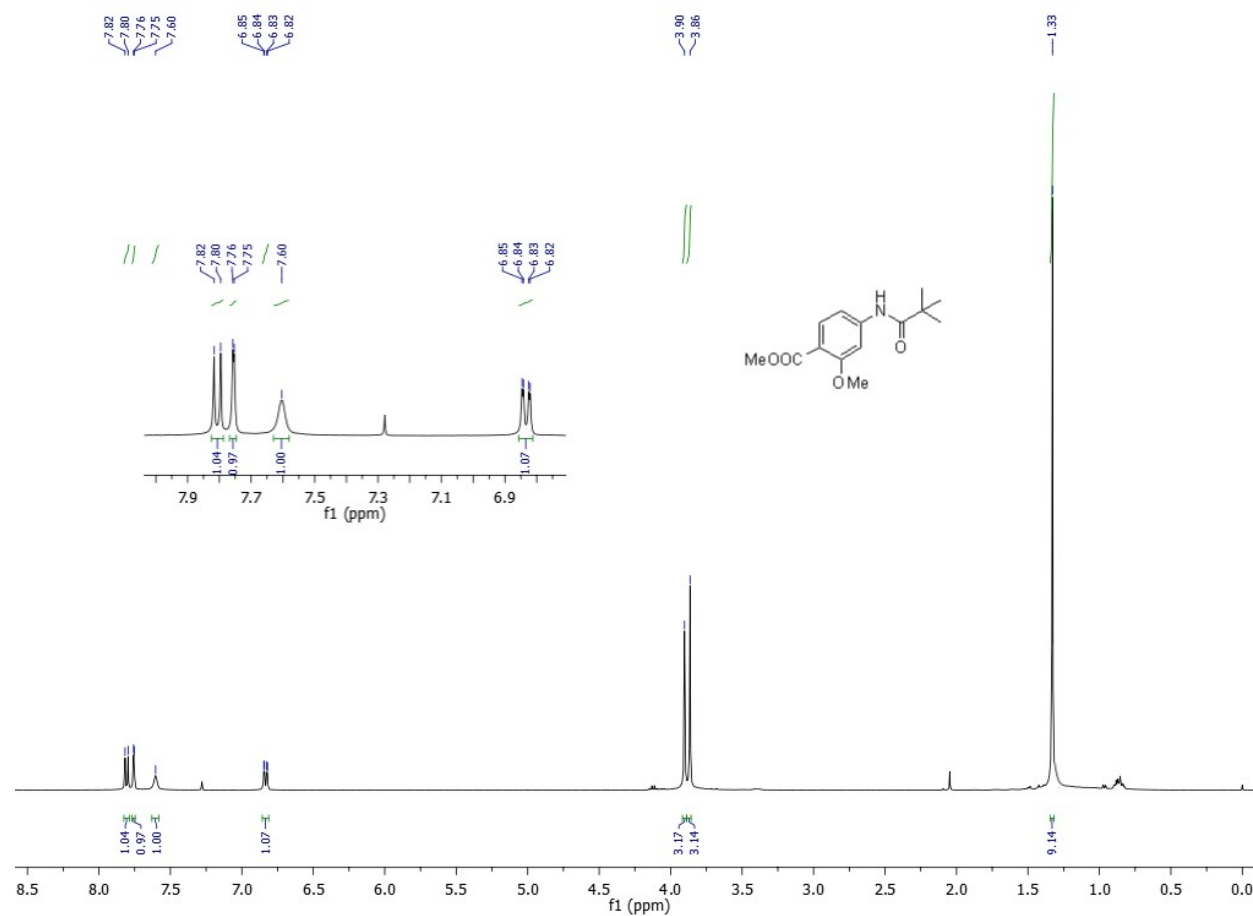
Methoxyphenyl)pivalamide(2c): ^1H NMR & ^{13}C NMR



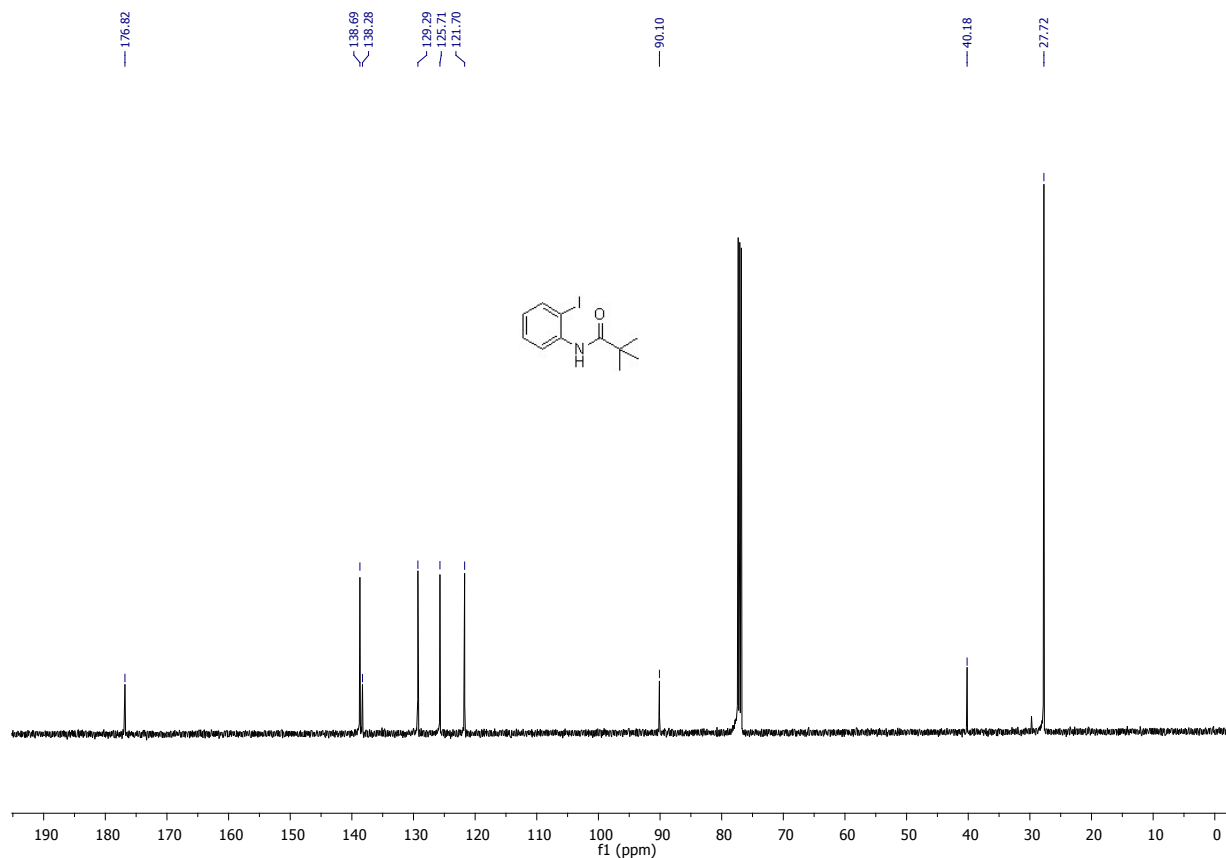
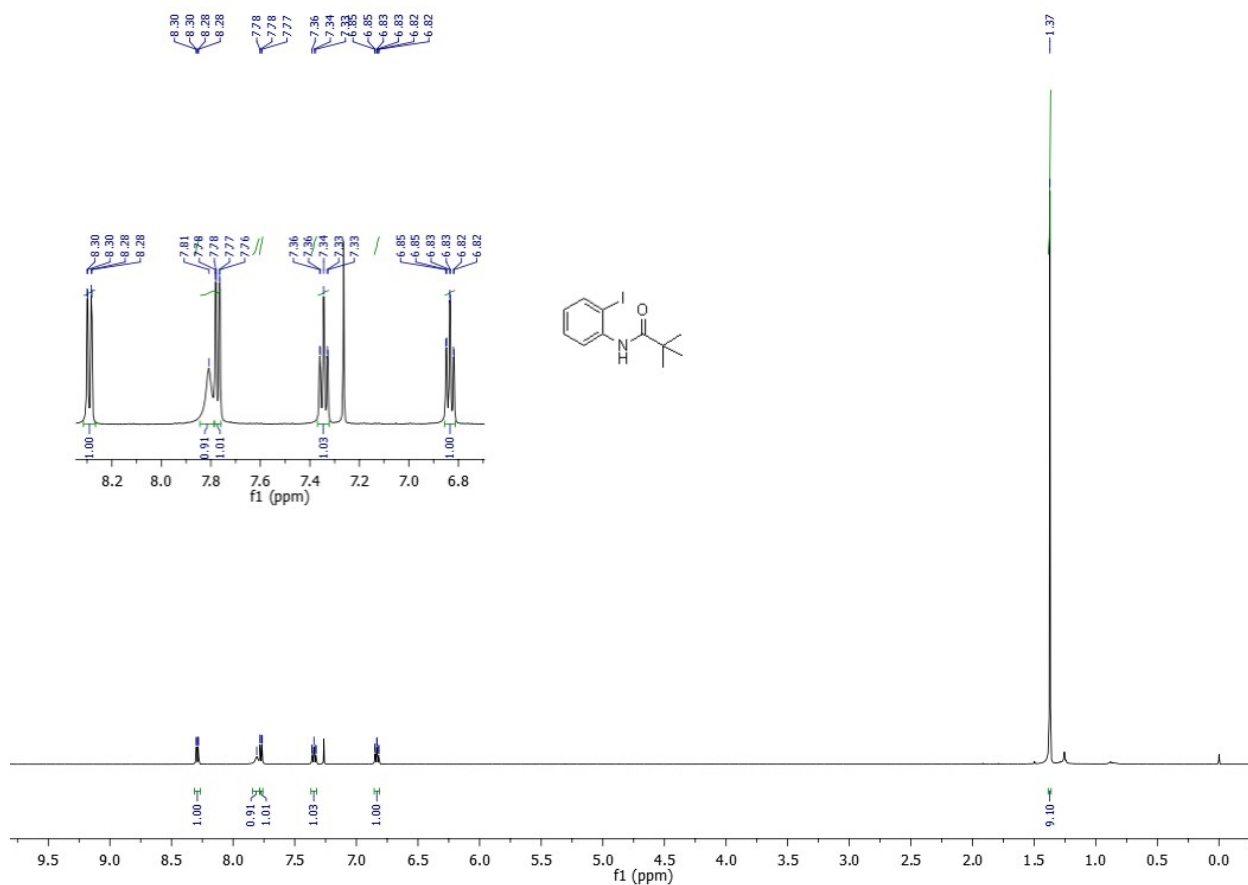
N-(2,6-Dimethylphenyl)pivalamide(2d): ^1H NMR & ^{13}C NMR



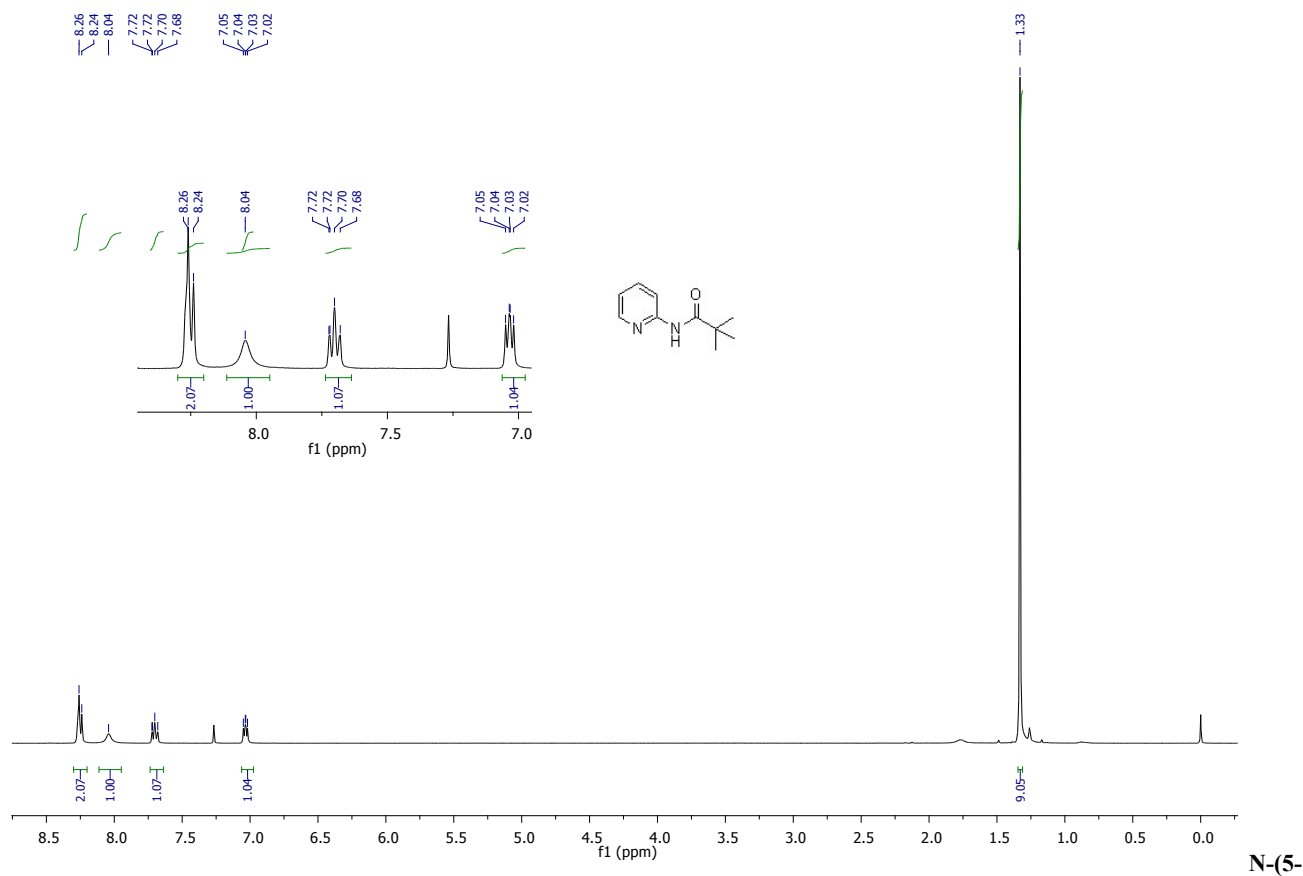
Methyl 2-methoxy-4-pivalamidobenzoate(2e): H¹ NMR & C¹³ NMR



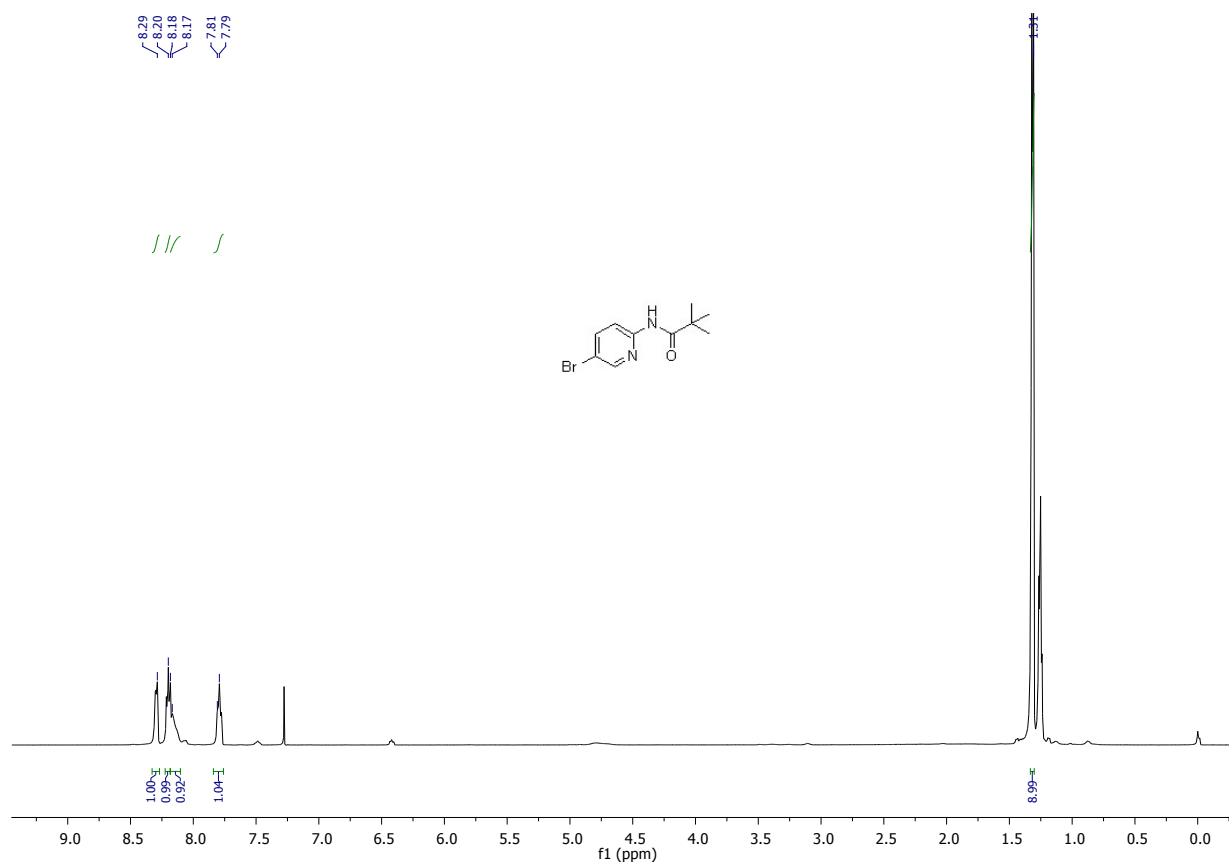
***N*-(2-Iodophenyl)pivalamide(2f): ^1H NMR & ^{13}C NMR**

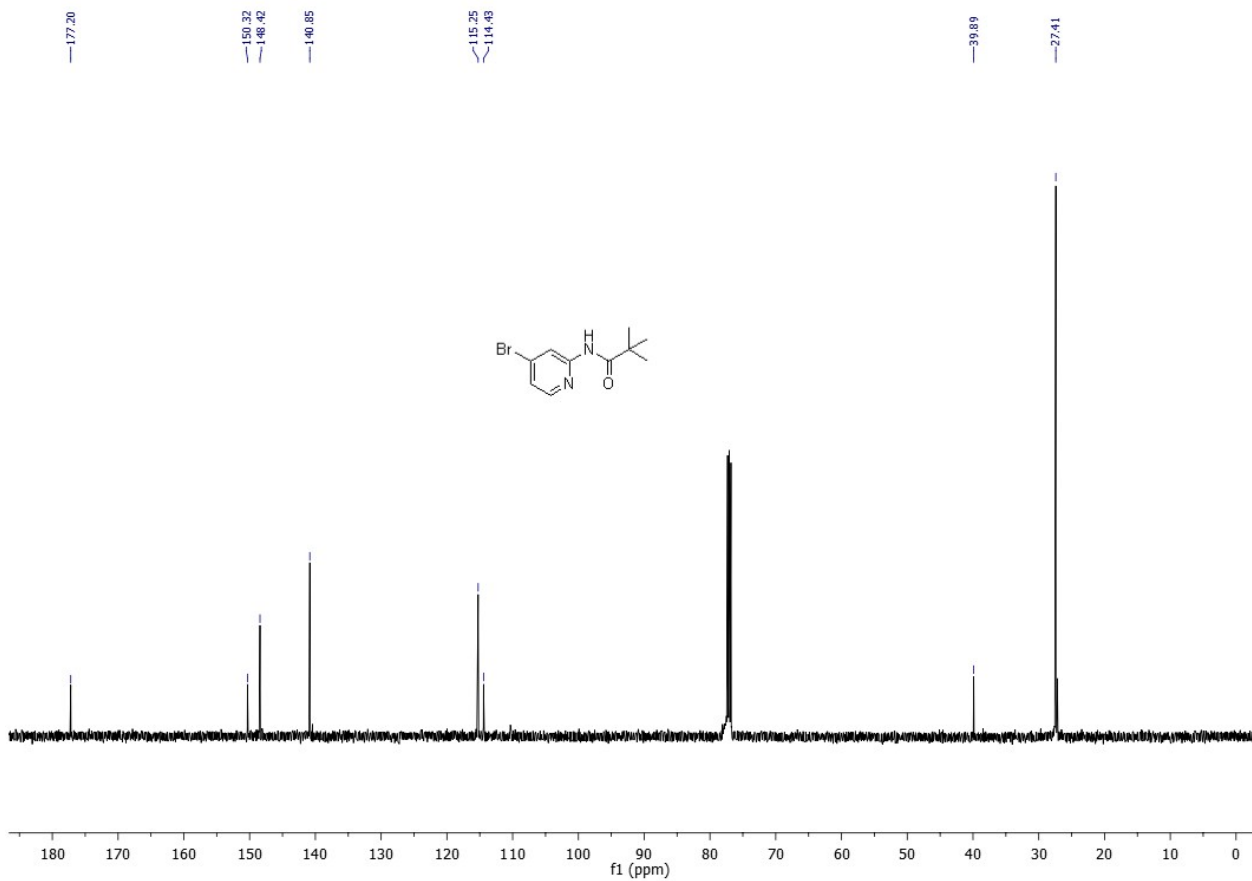


N-(Pyridin-2-yl)pivalamide(2g): H¹ NMR

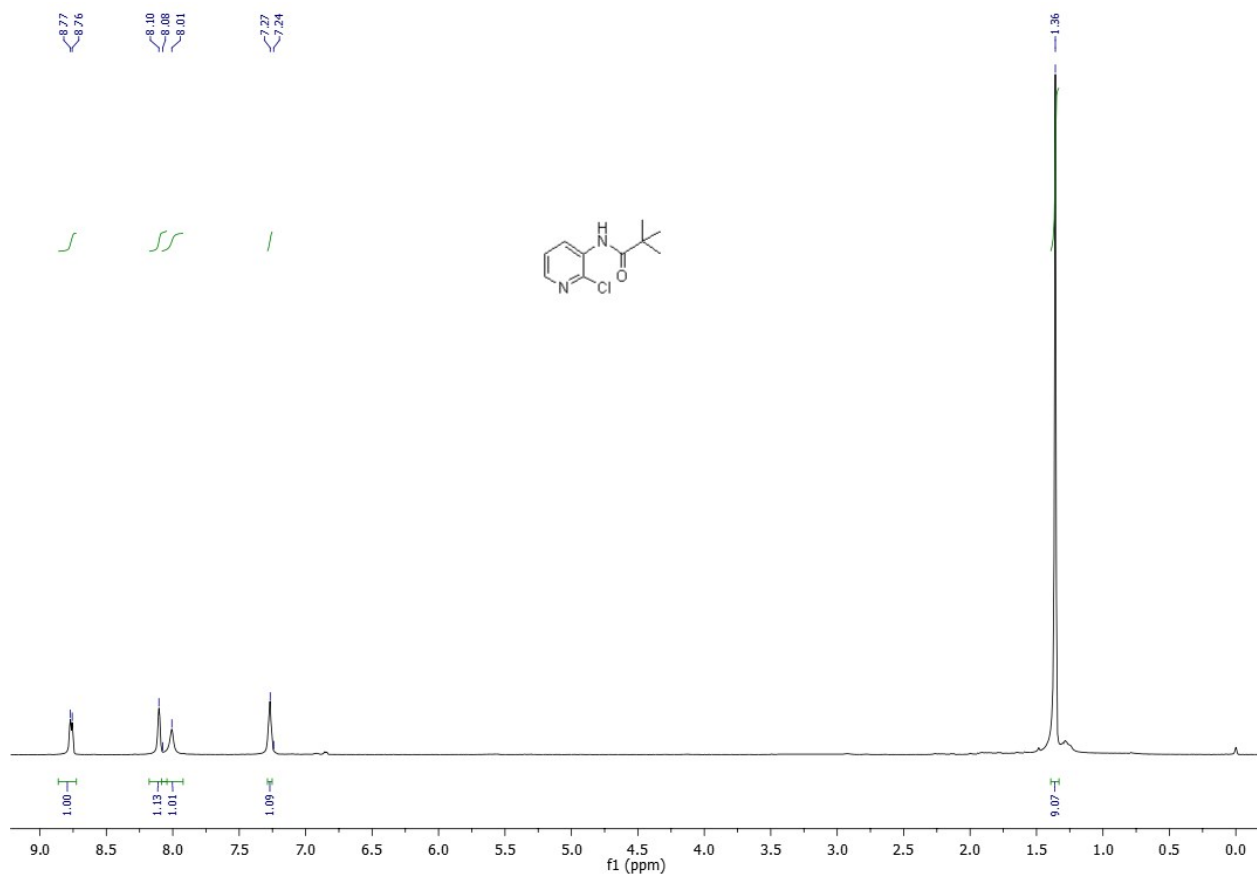


Bromopyridin-2-yl)pivalamide(2h): H¹ NMR & C¹³ NMR

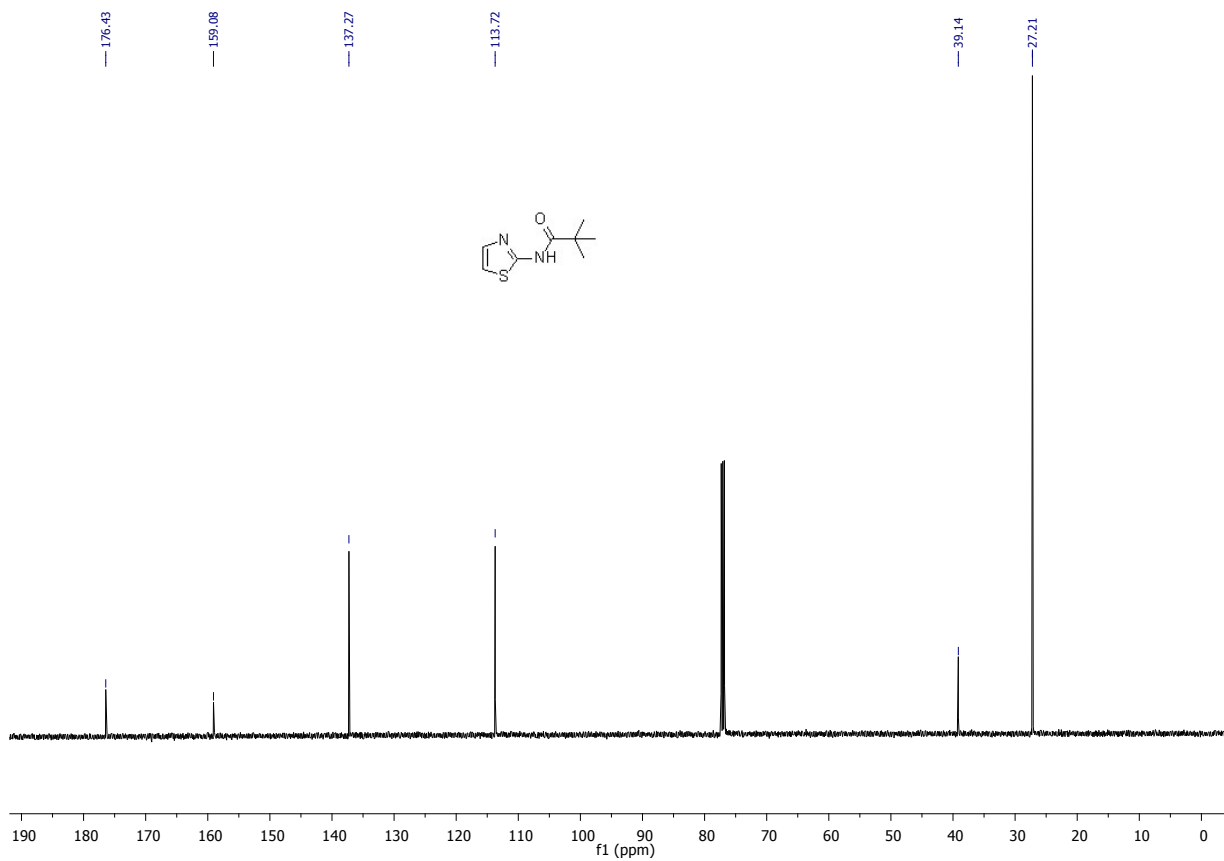
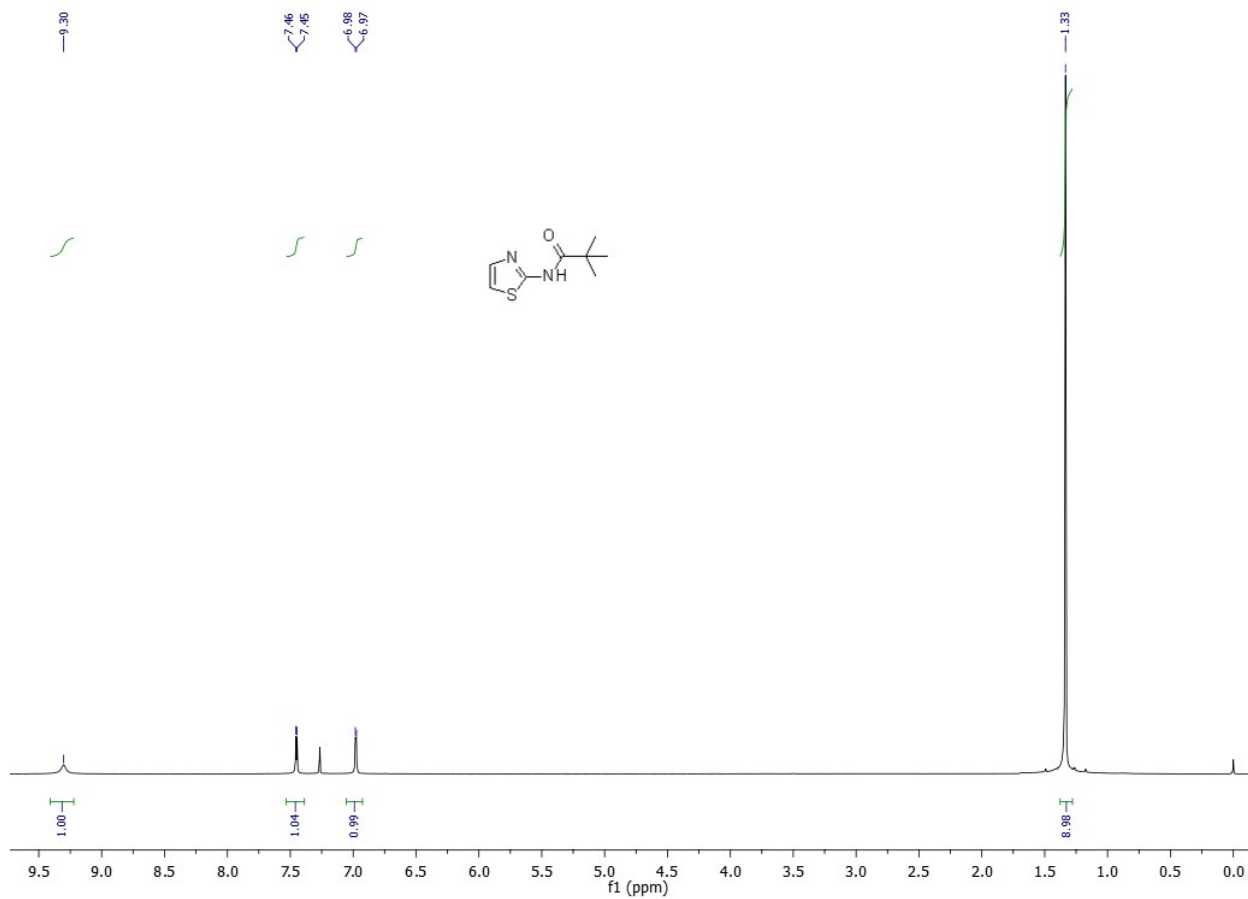




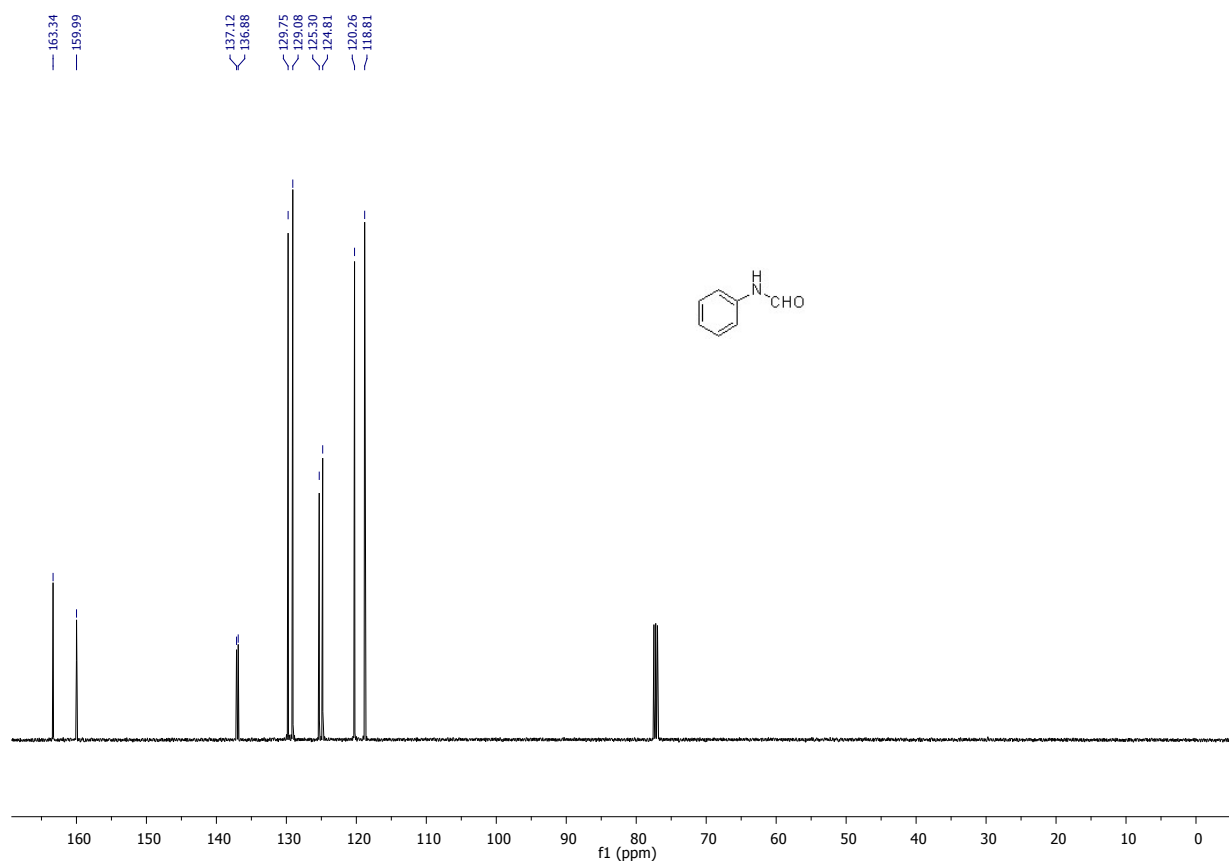
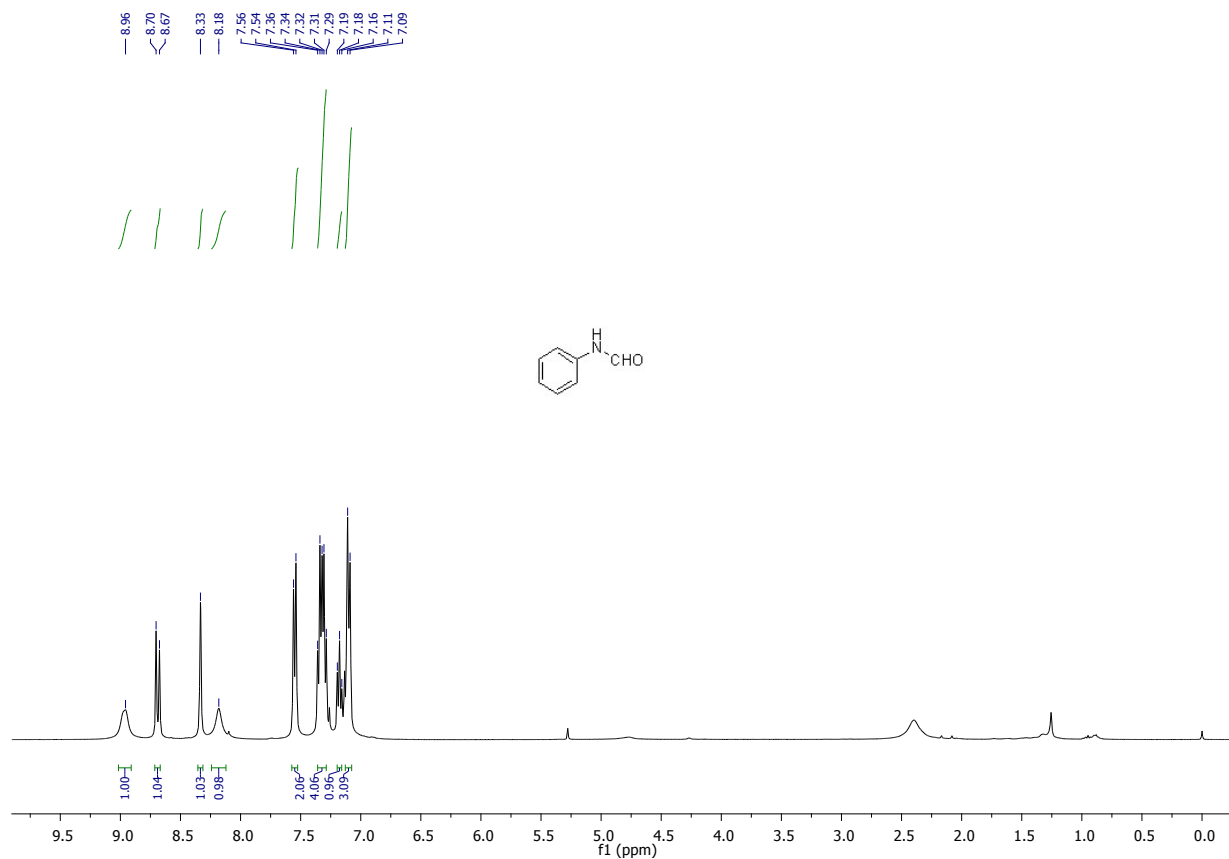
***N*-(2-Chloropyridin-3-yl)pivalamide(2i): H^1 NMR**



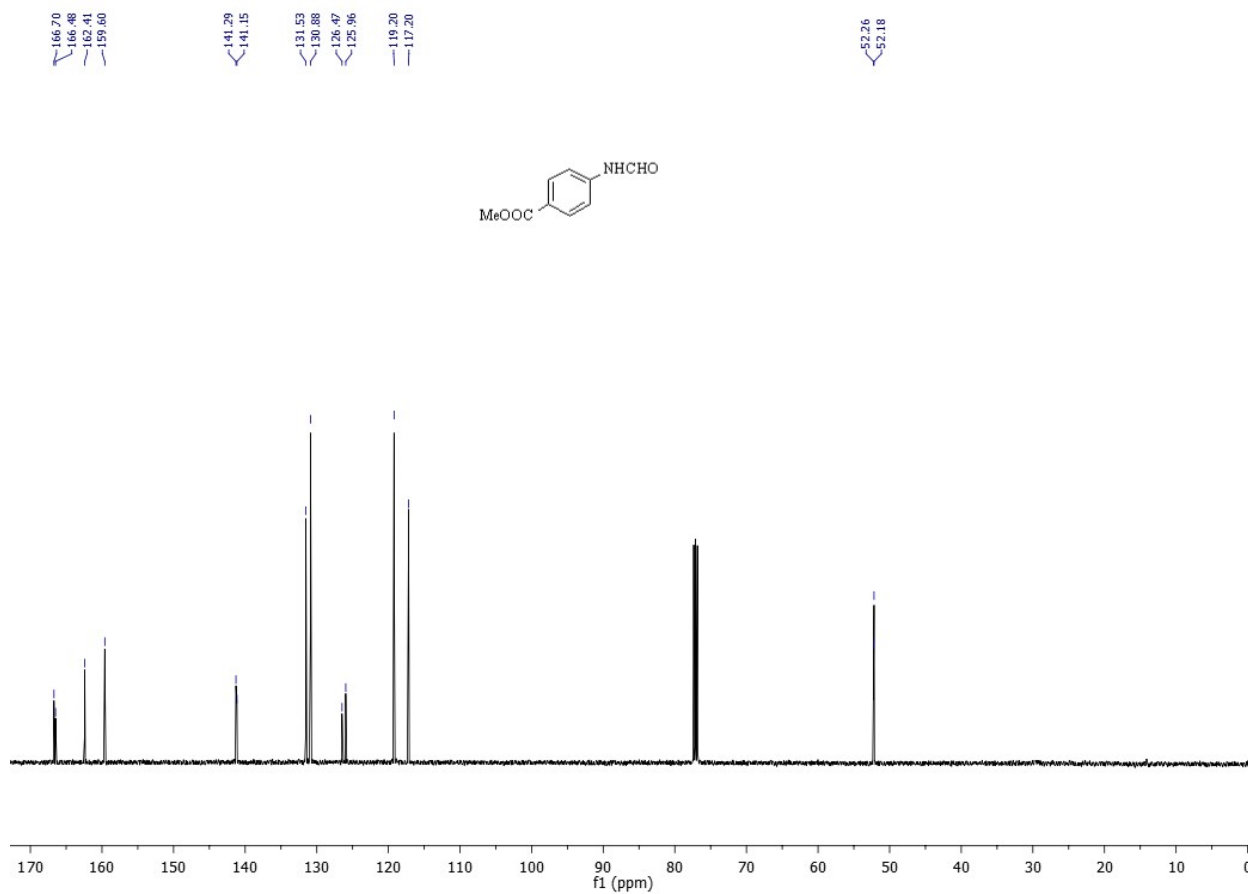
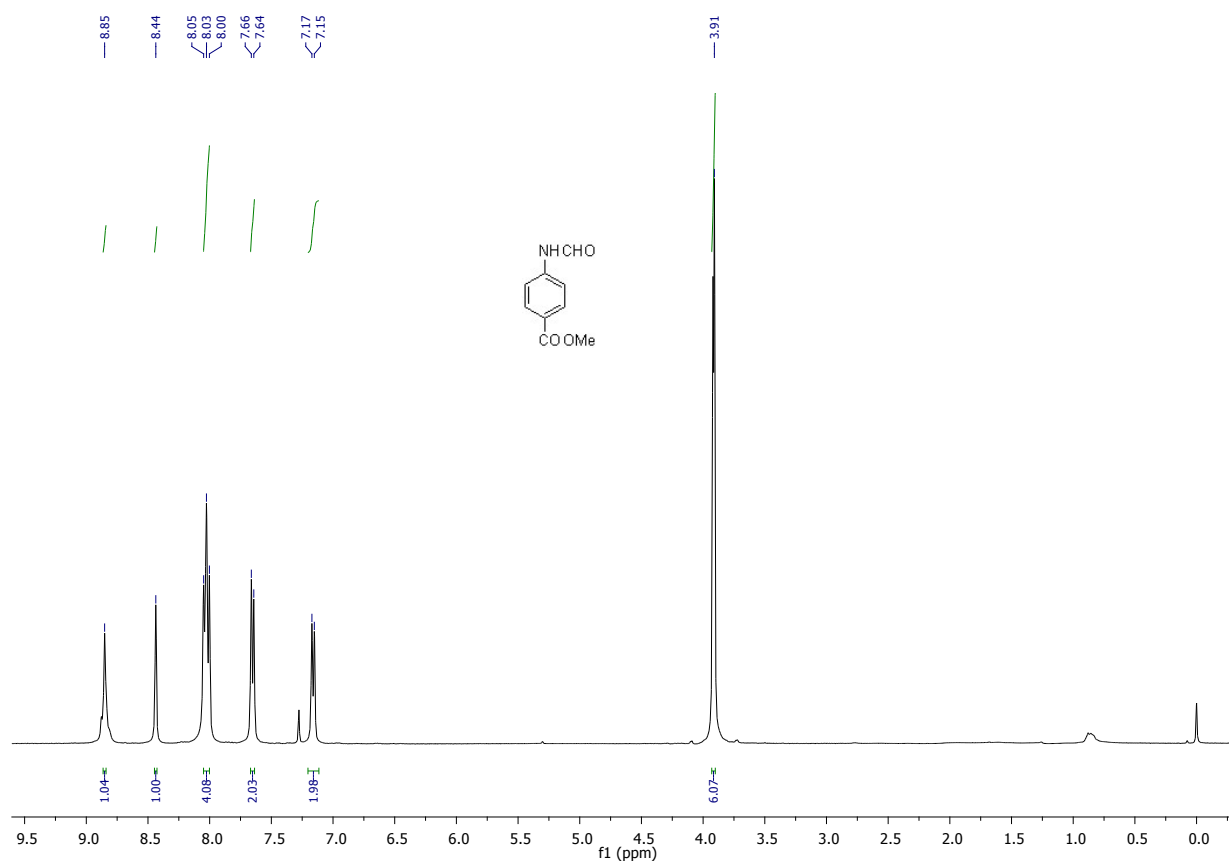
***N*-(Thiazol-2-yl)pivalamide(2j): H¹ NMR & C¹³ NMR**



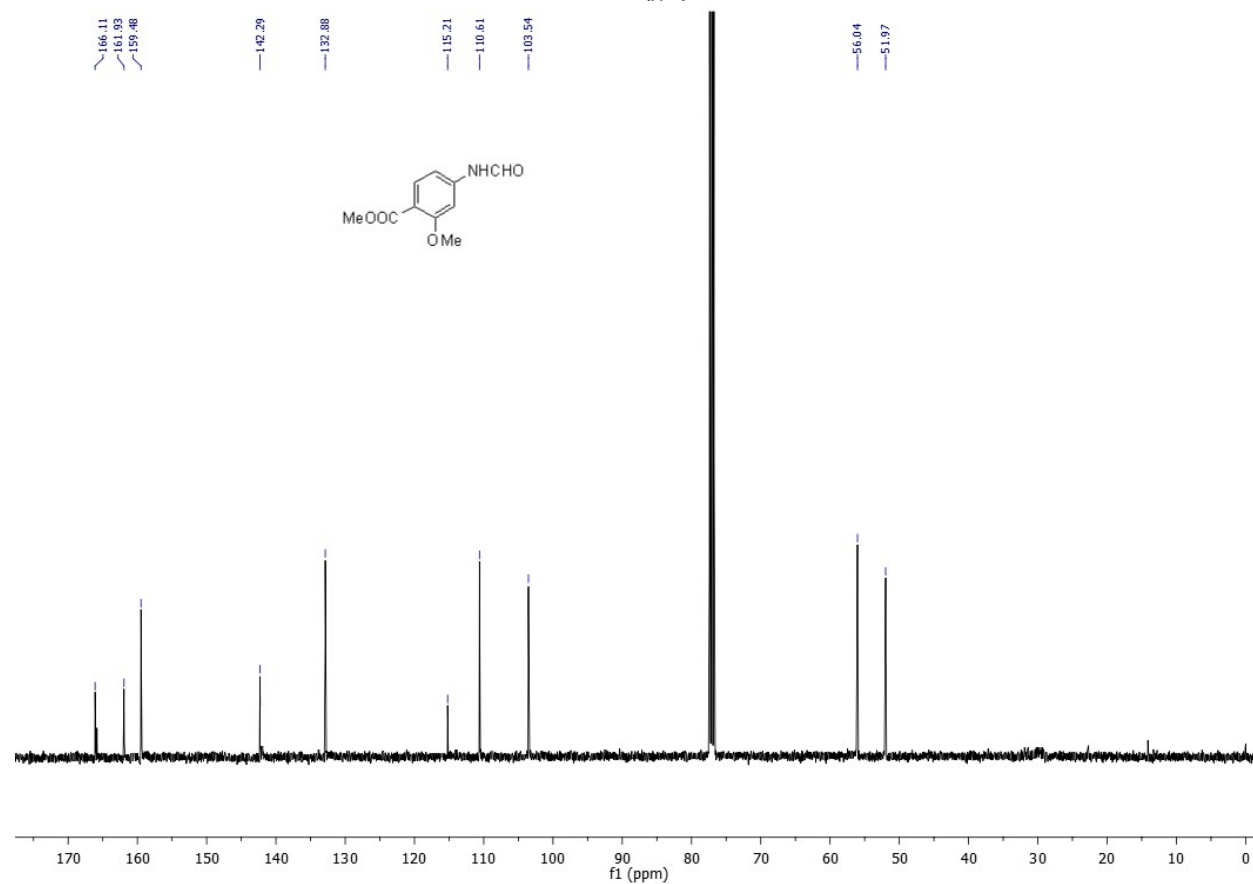
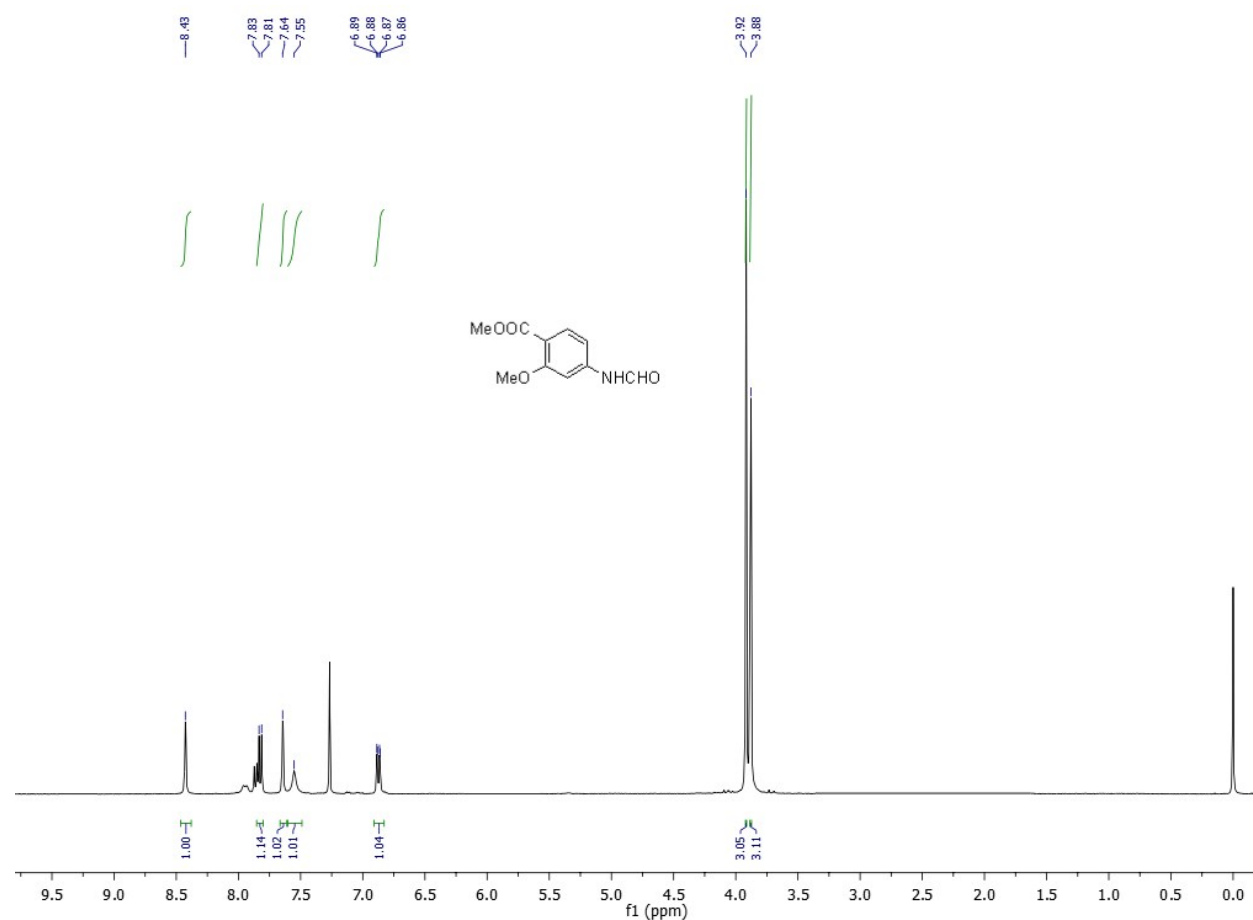
N-Phenylformamide(3a): H¹ NMR & C¹³ NMR



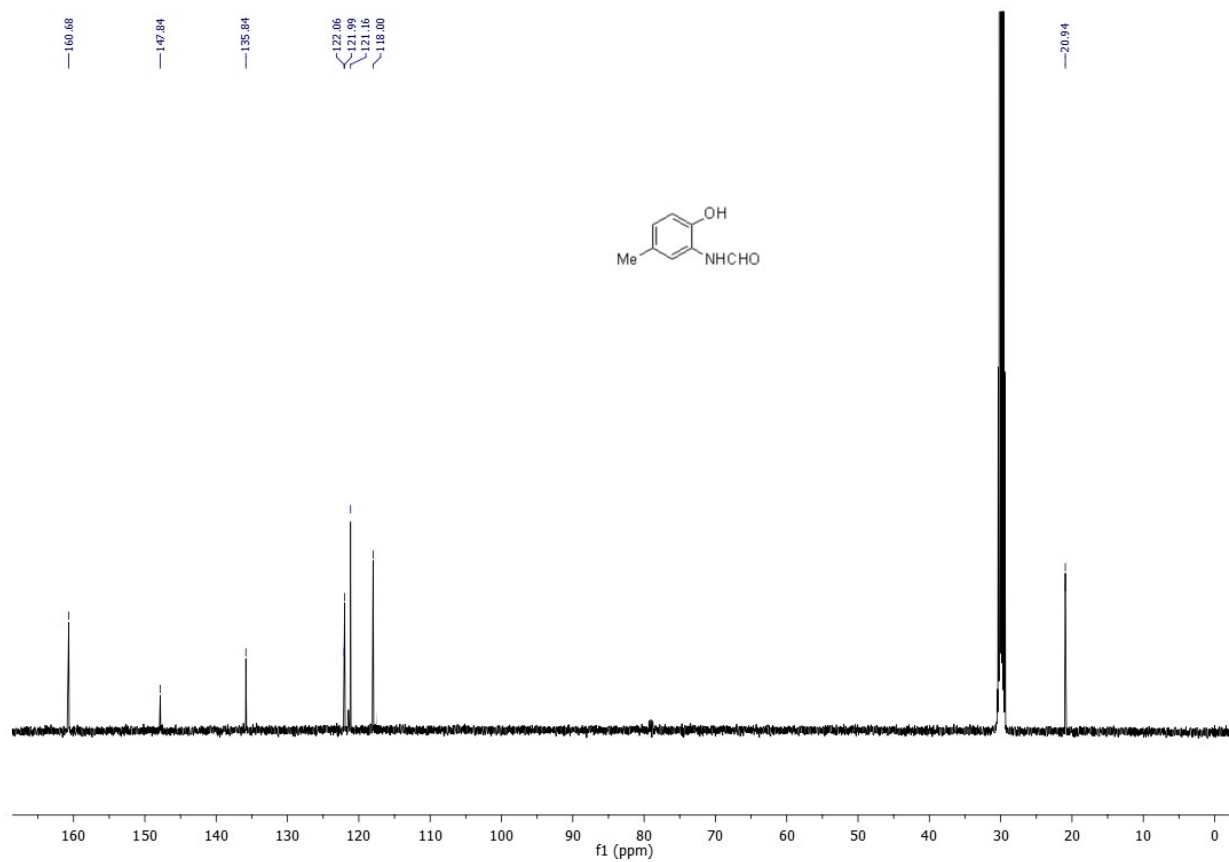
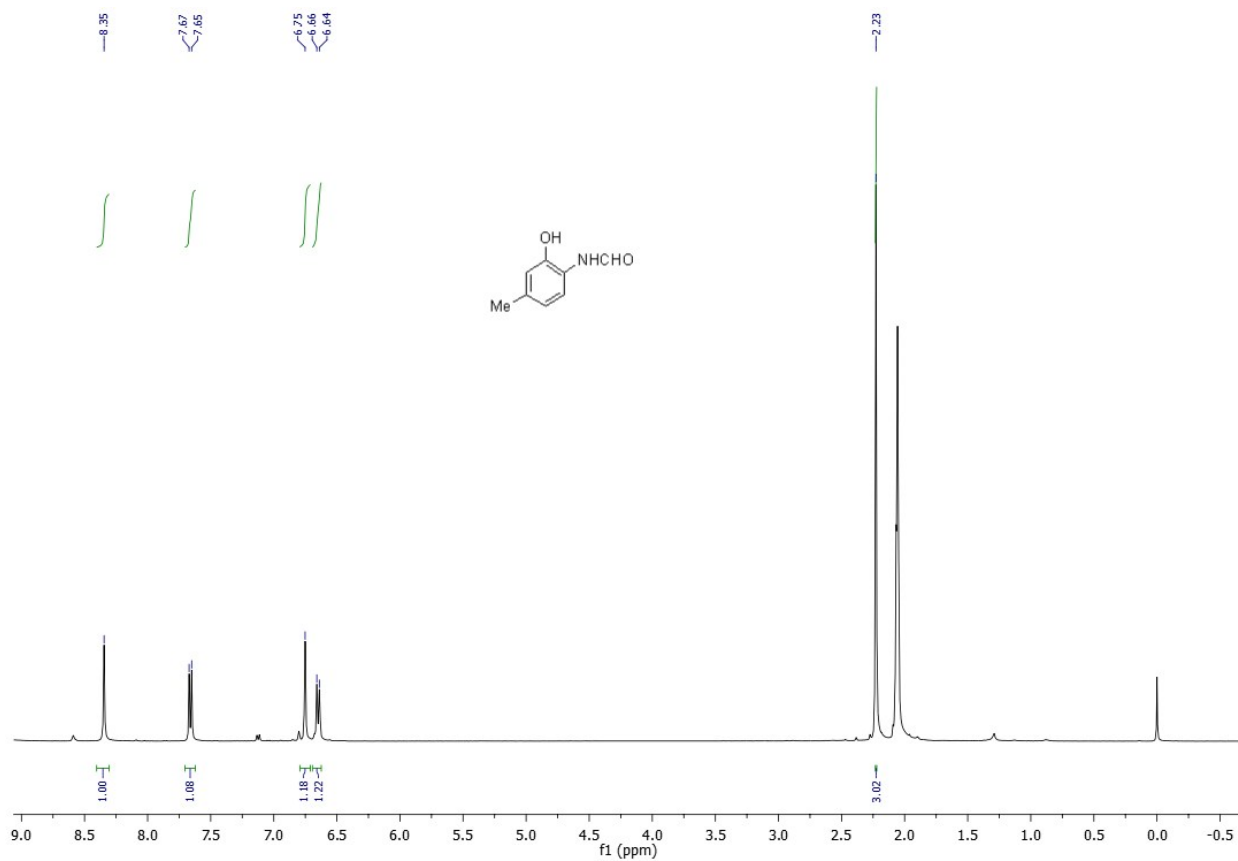
Methyl 4-formamidobenzoate(3b): H^1 NMR & C^{13} NMR



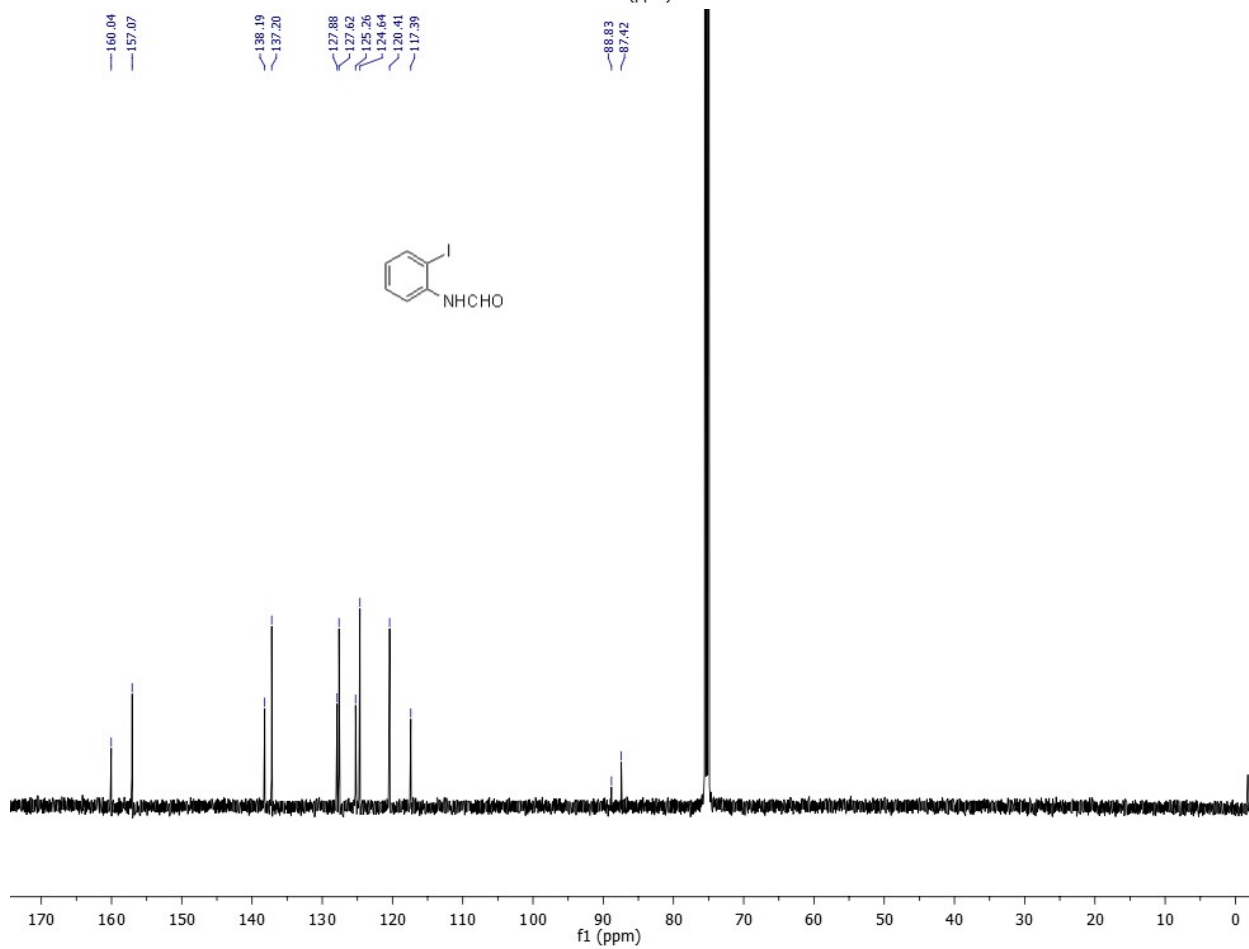
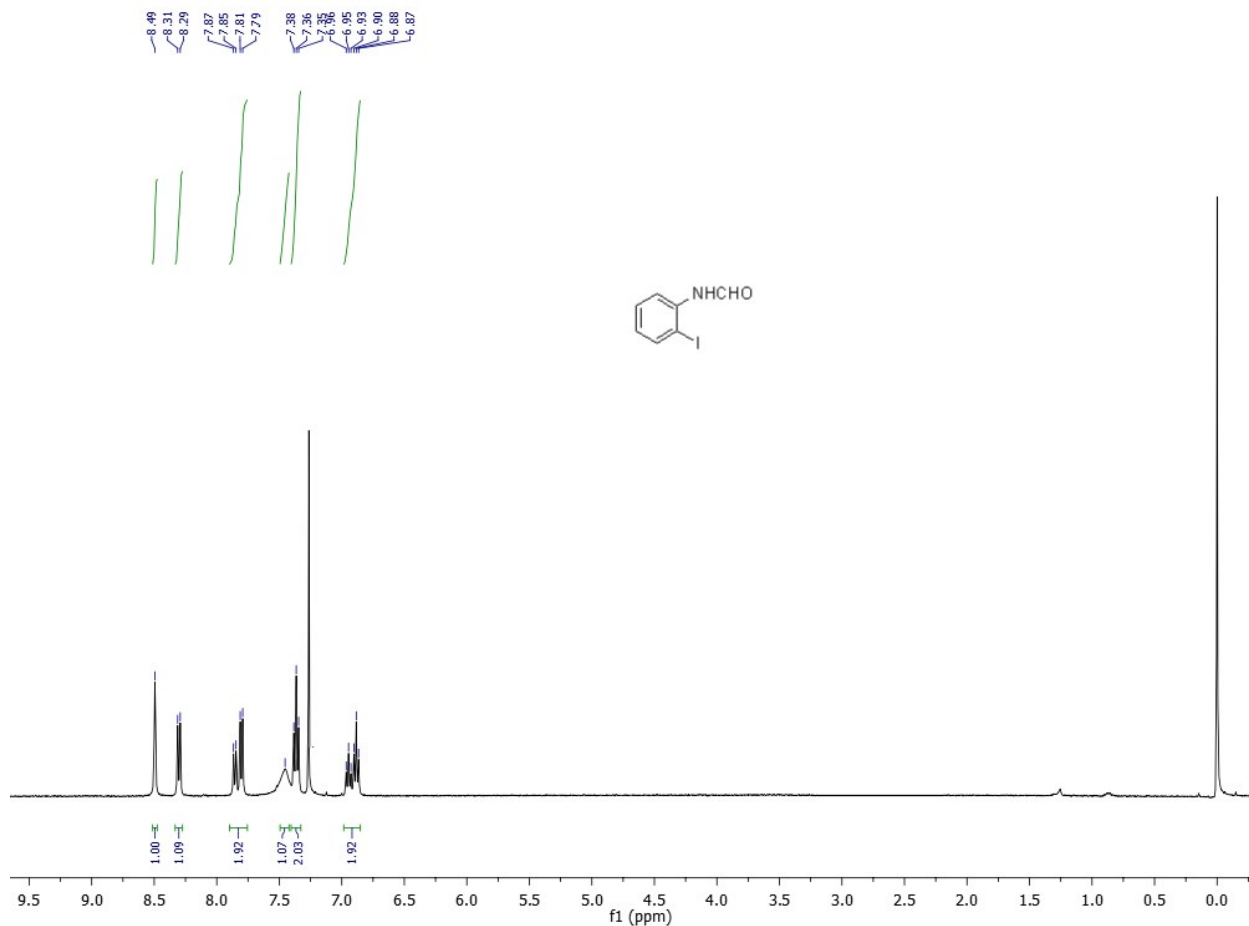
Methyl 4-formamido-2-methoxybenzoate(3c): ^1H NMR & ^{13}C NMR



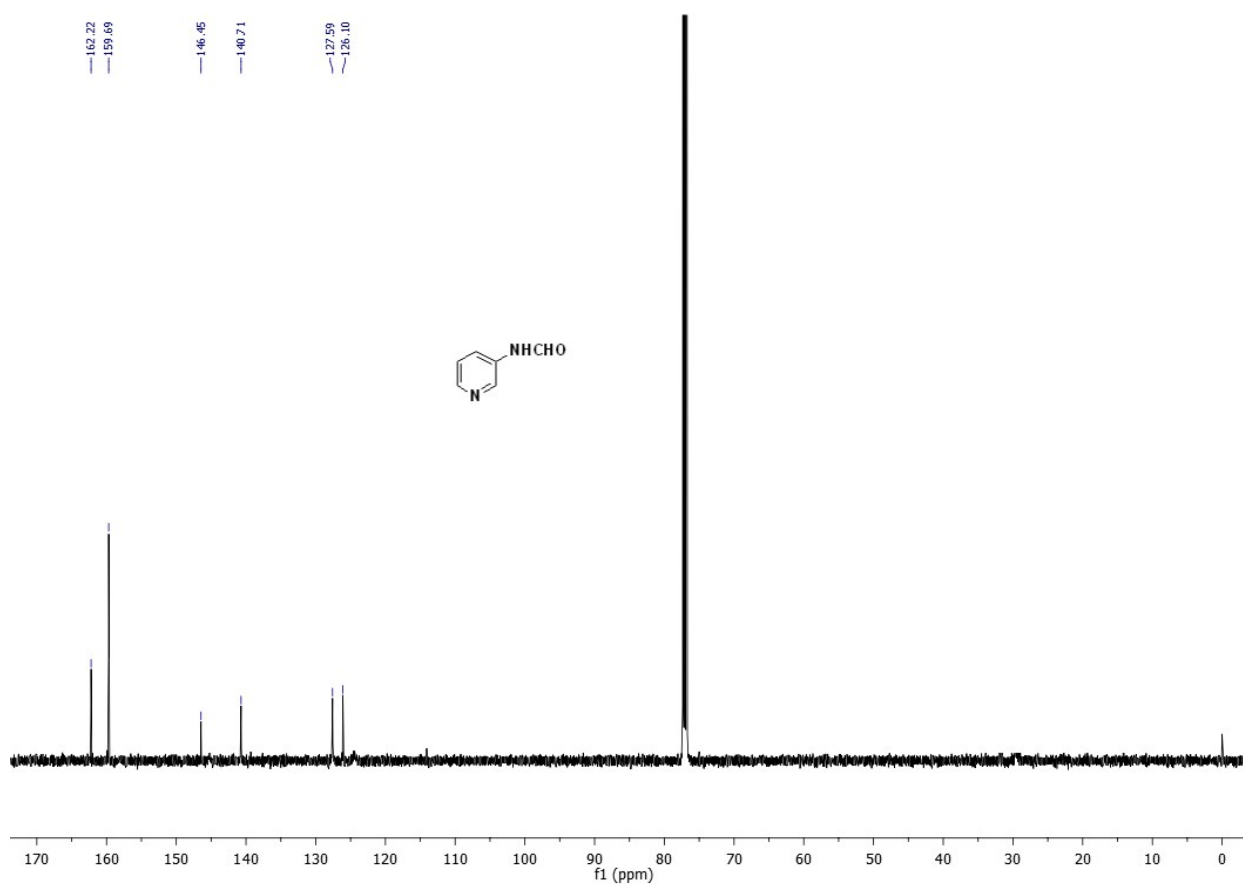
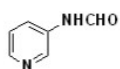
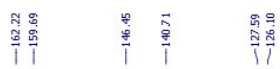
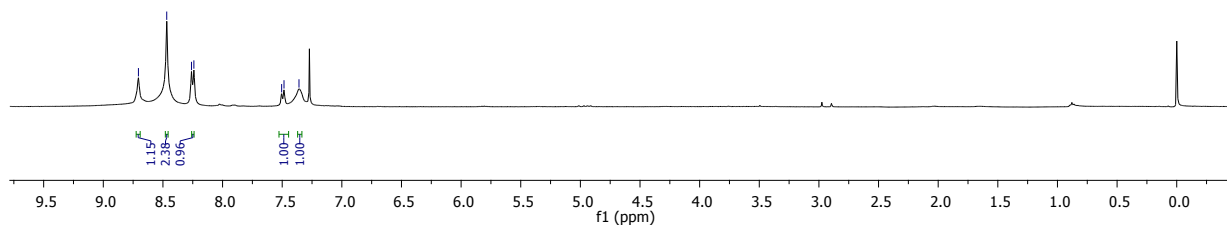
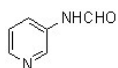
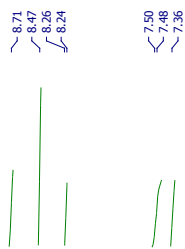
N-(2-Hydroxy-5-methylphenyl)formamide(3d): ^1H NMR & ^{13}C NMR



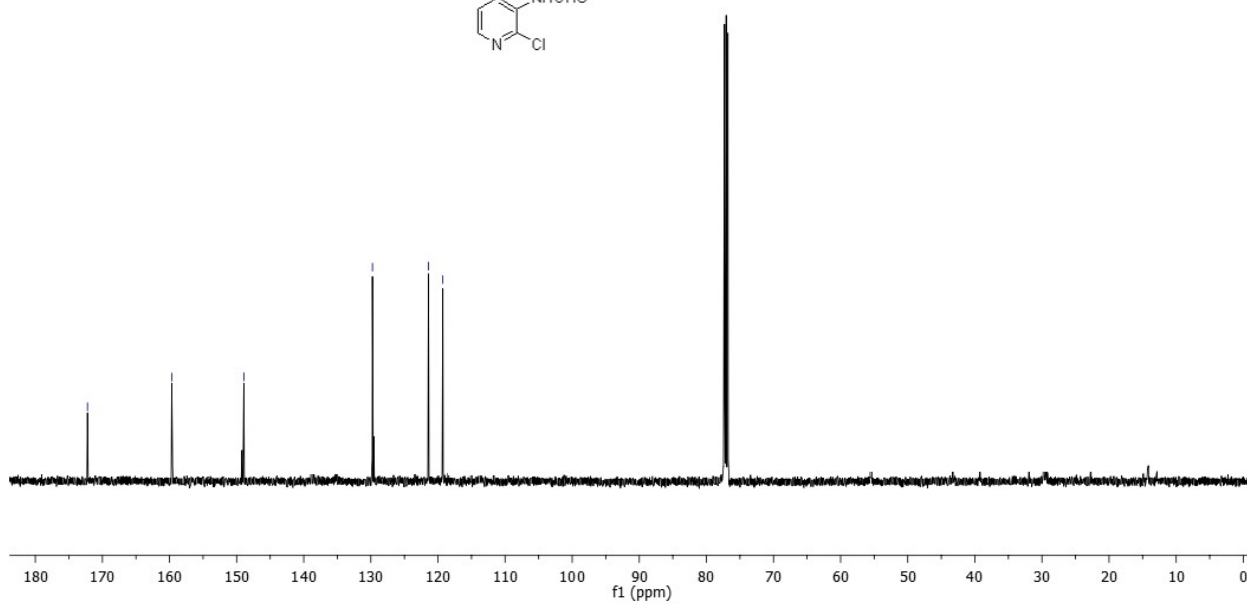
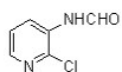
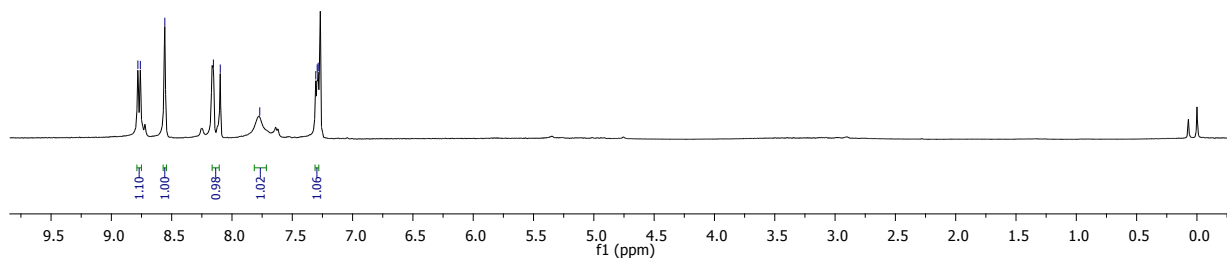
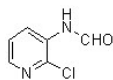
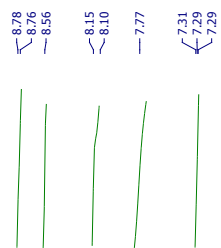
***N*-(2-Iodophenyl)formamide(3e): H^1 NMR & C^{13} NMR**



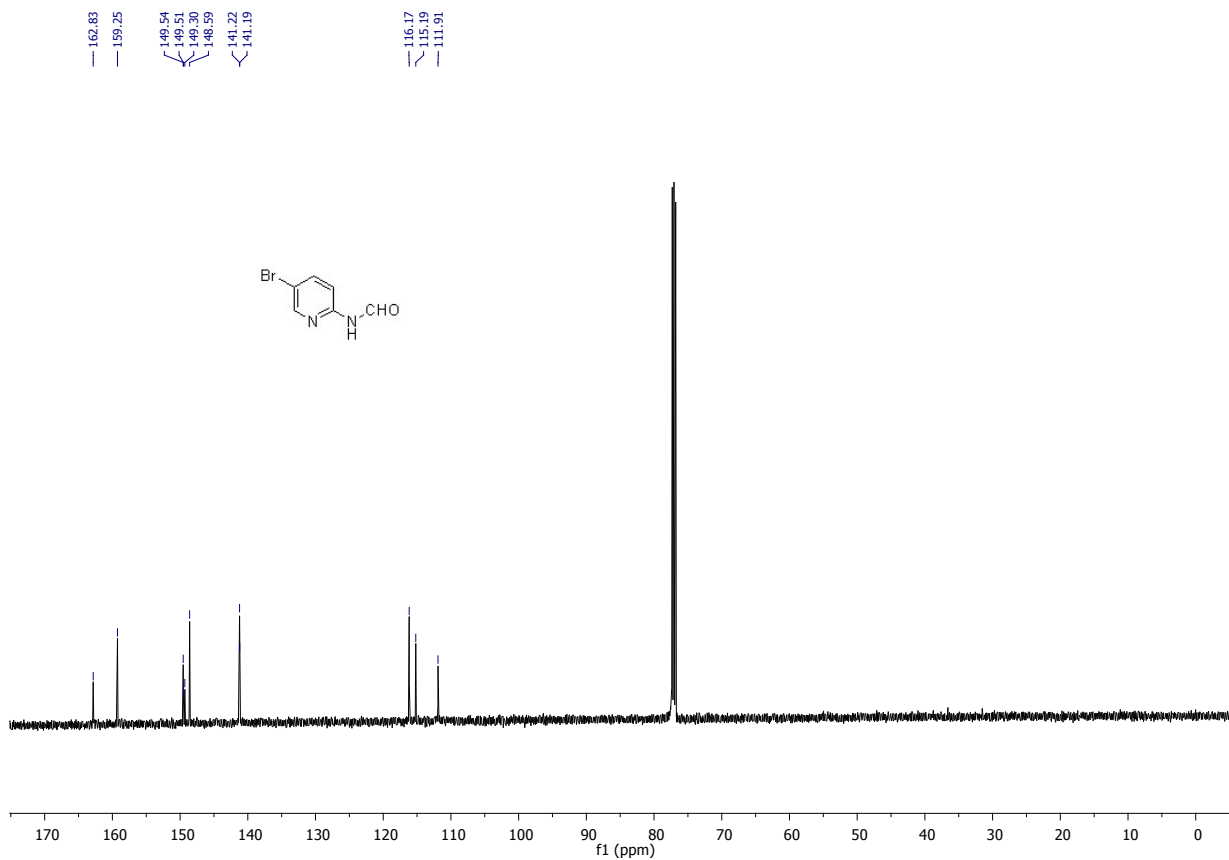
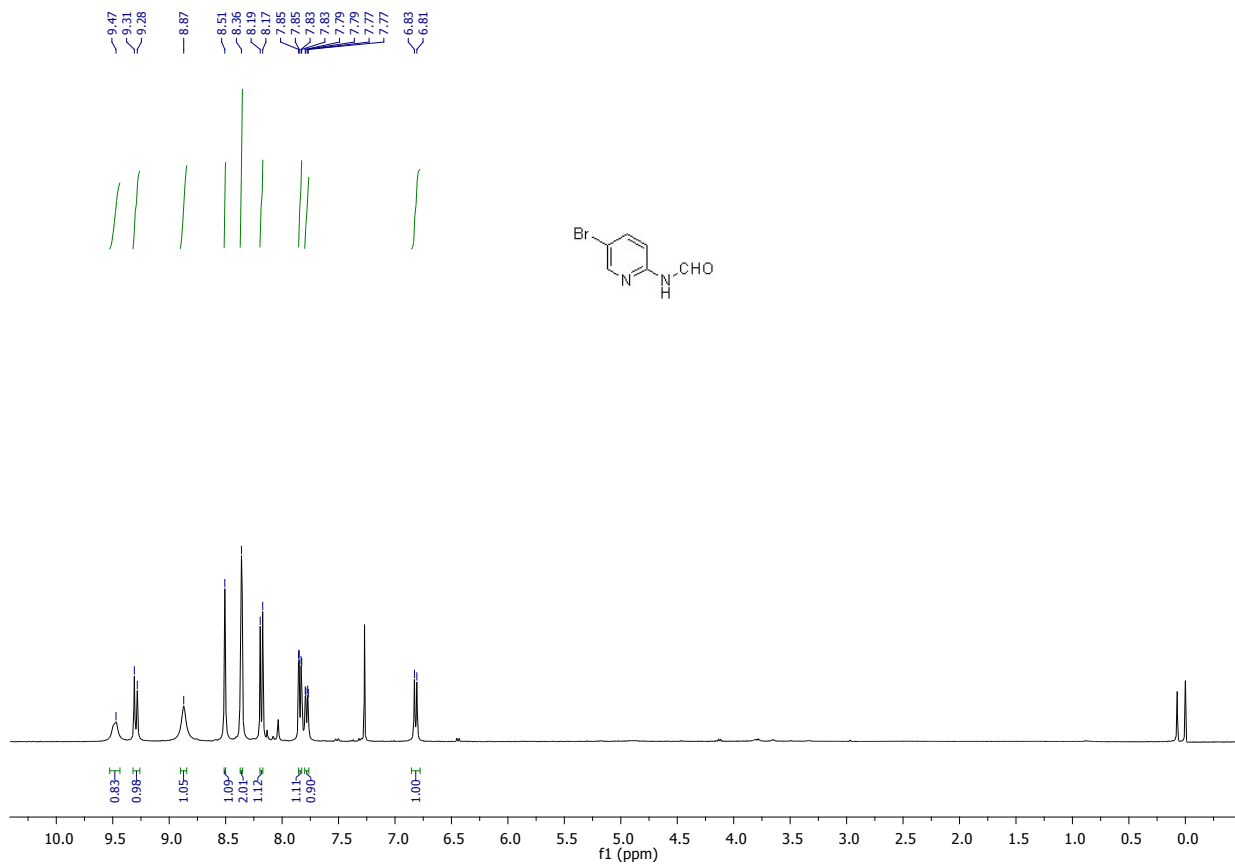
***N*-(Pyridin-3-yl)formamide(3f): H¹ NMR & C¹³ NMR**



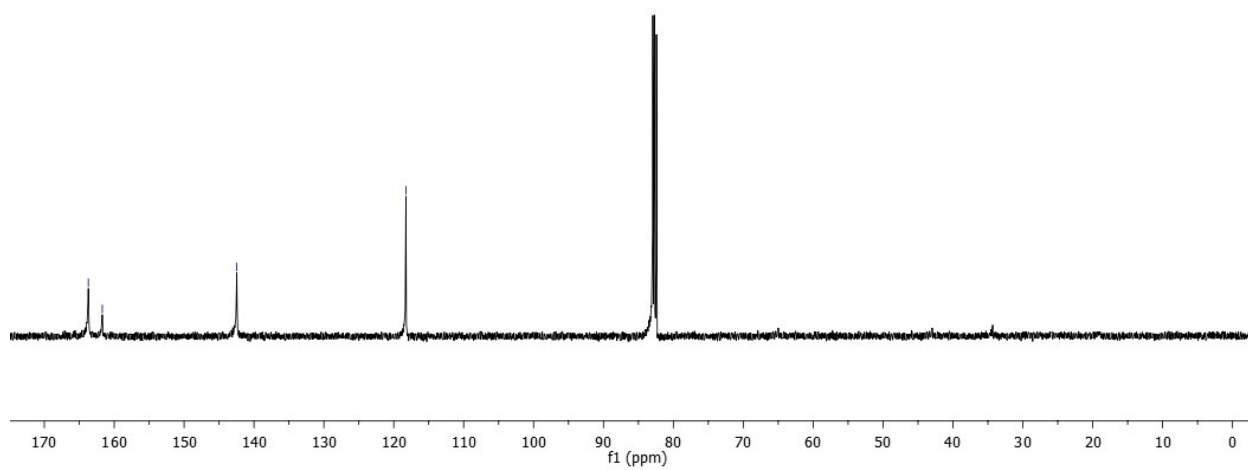
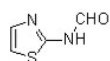
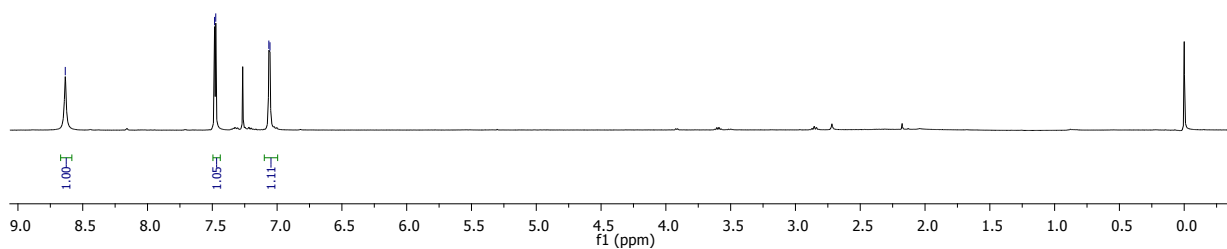
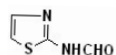
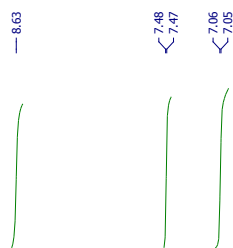
N-(2-Chloropyridin-3-yl)formamide(3g): H^1 NMR & C^{13} NMR



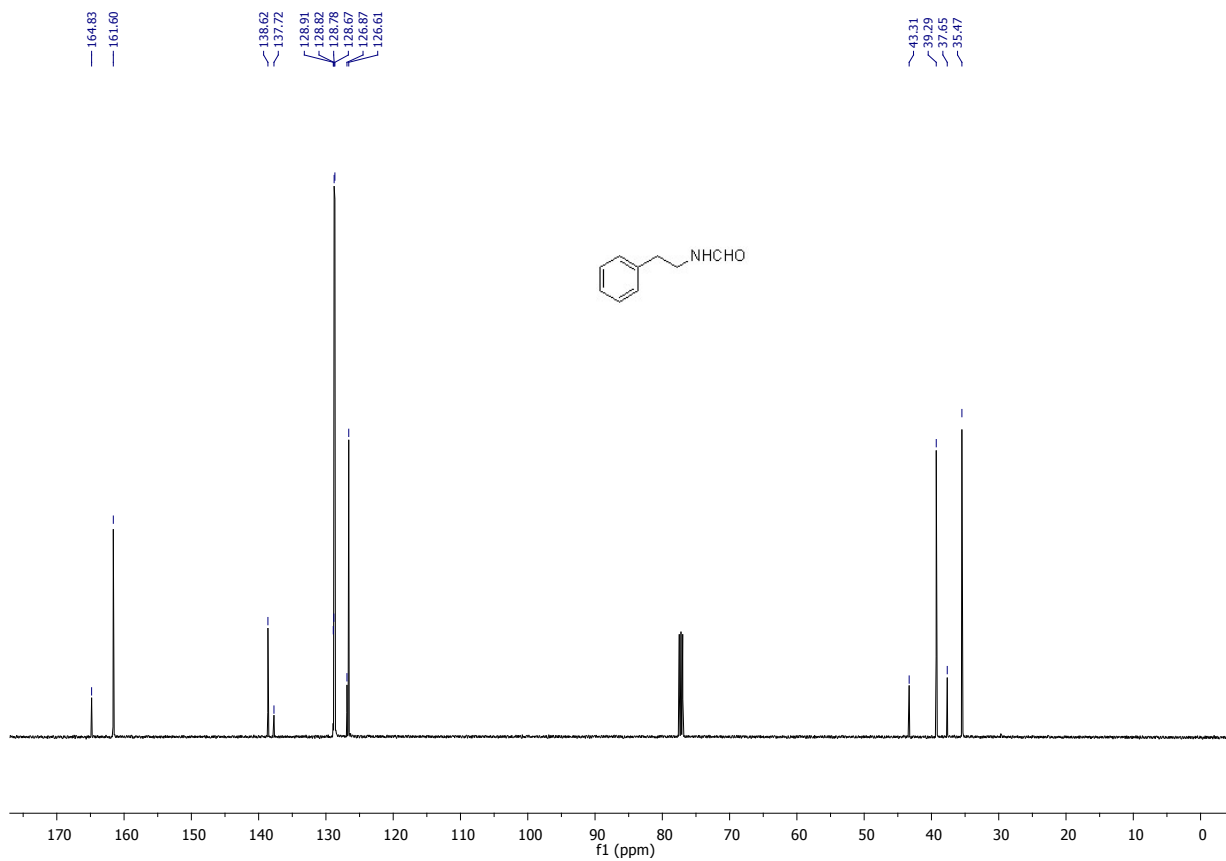
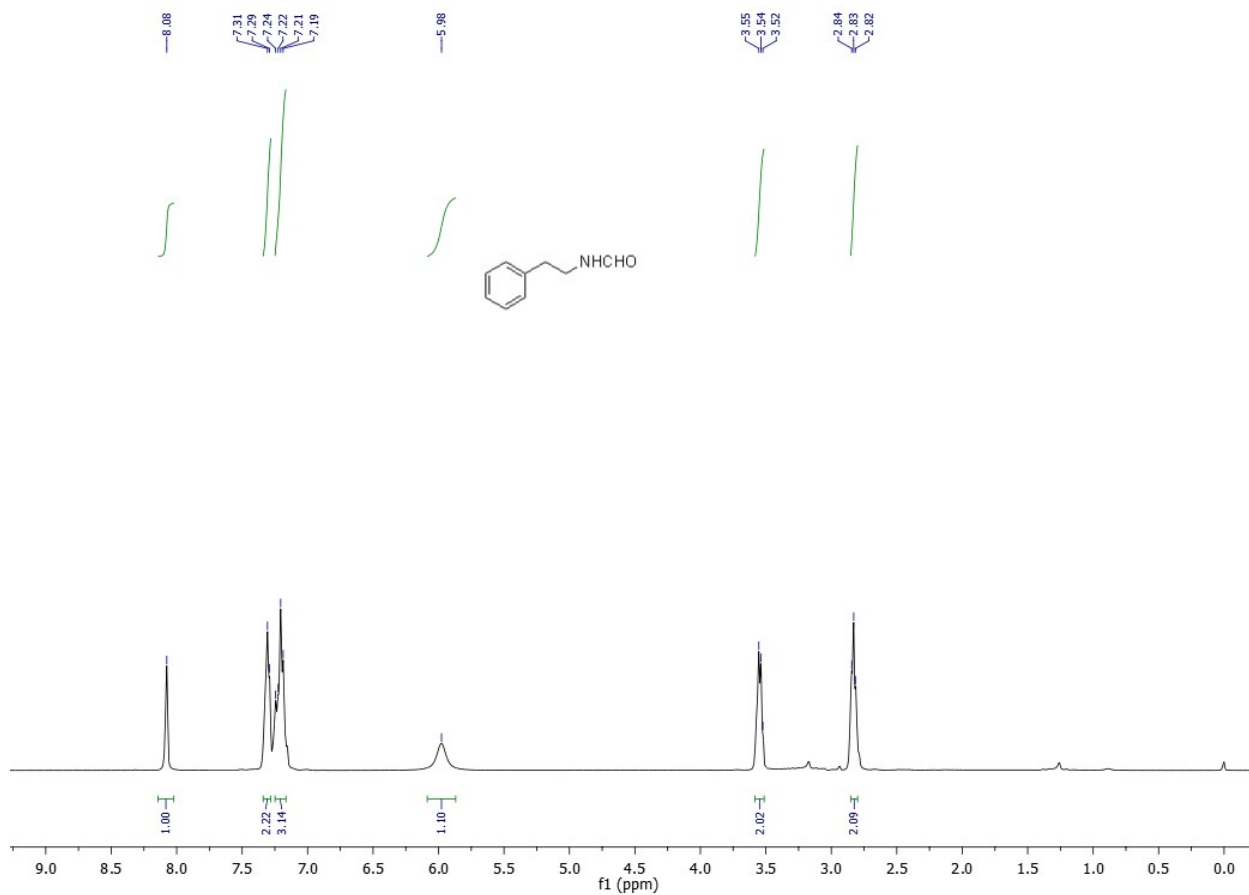
***N*-(5-Bromopyridin-2-yl)formamide(3h): H^1 NMR & C^{13} NMR**



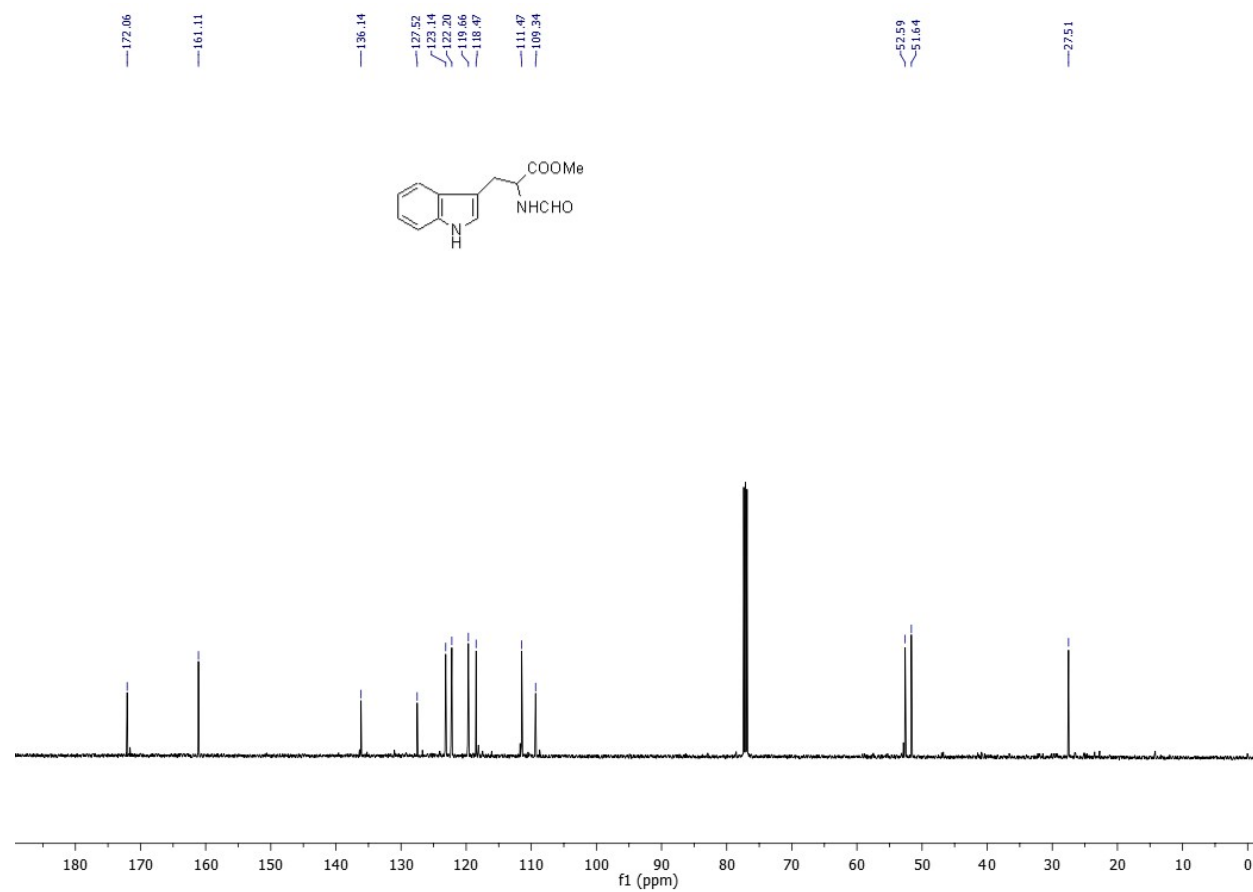
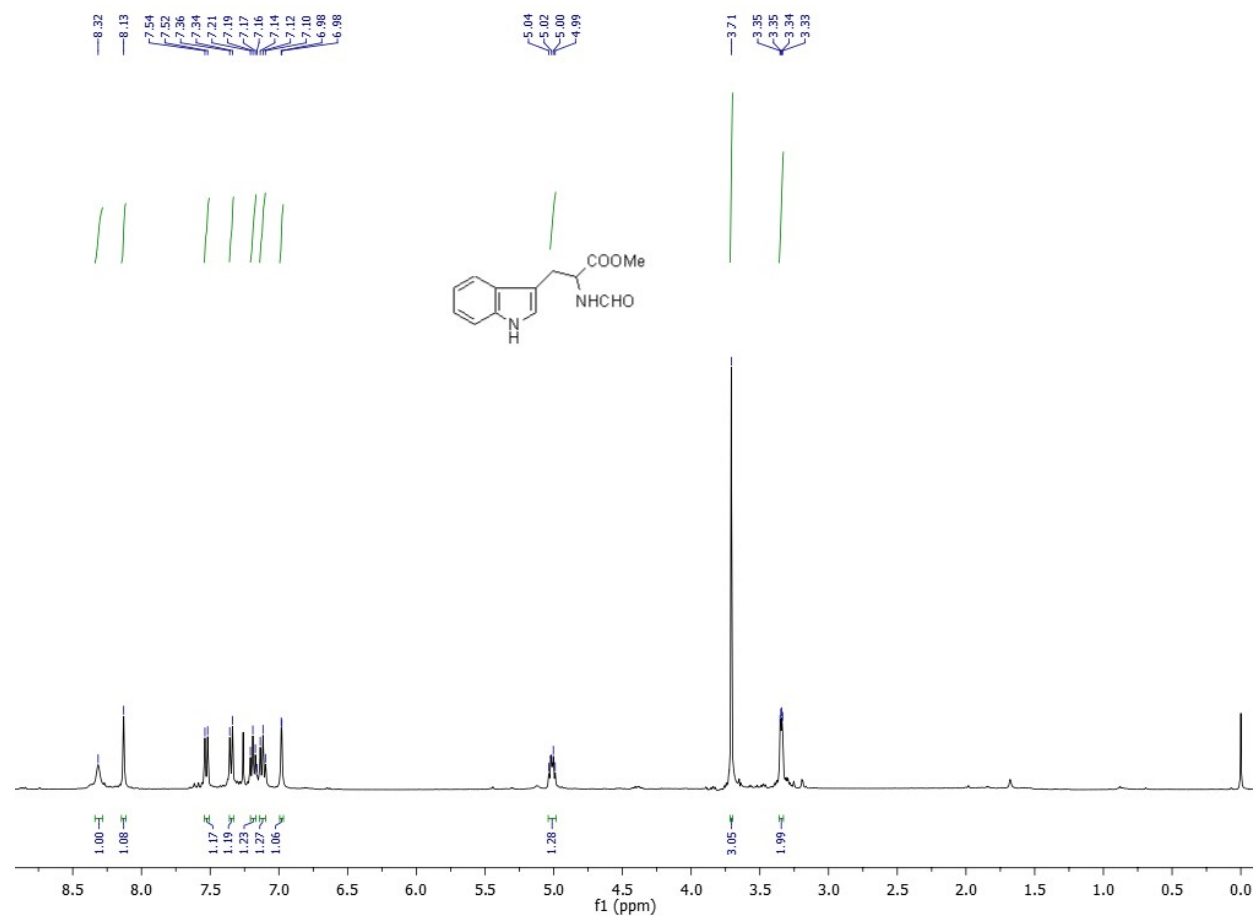
N-(Thiazol-2-yl)formamide(3i): H¹ NMR & C¹³ NMR



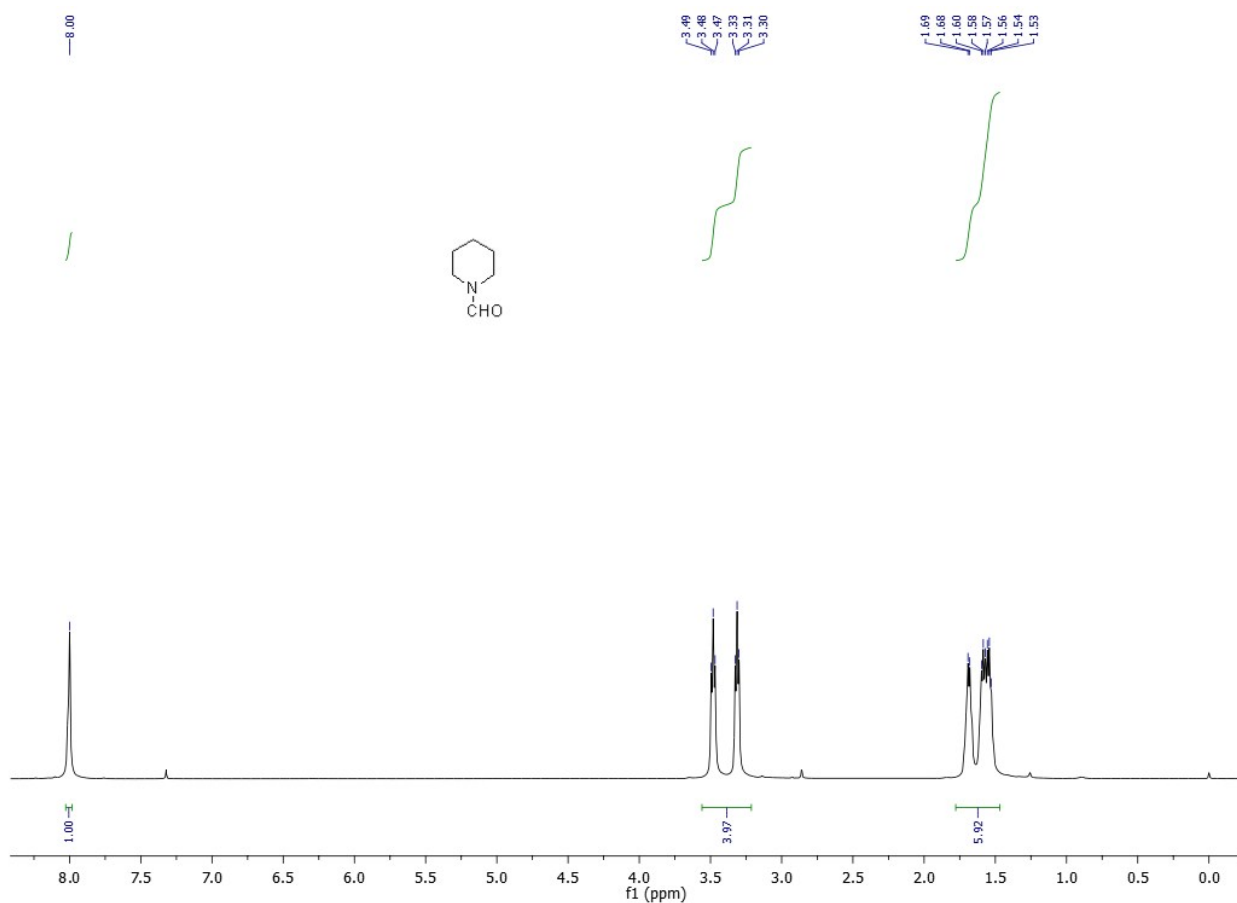
N-Phenethylformamide(3j): H¹ NMR & C¹³ NMR



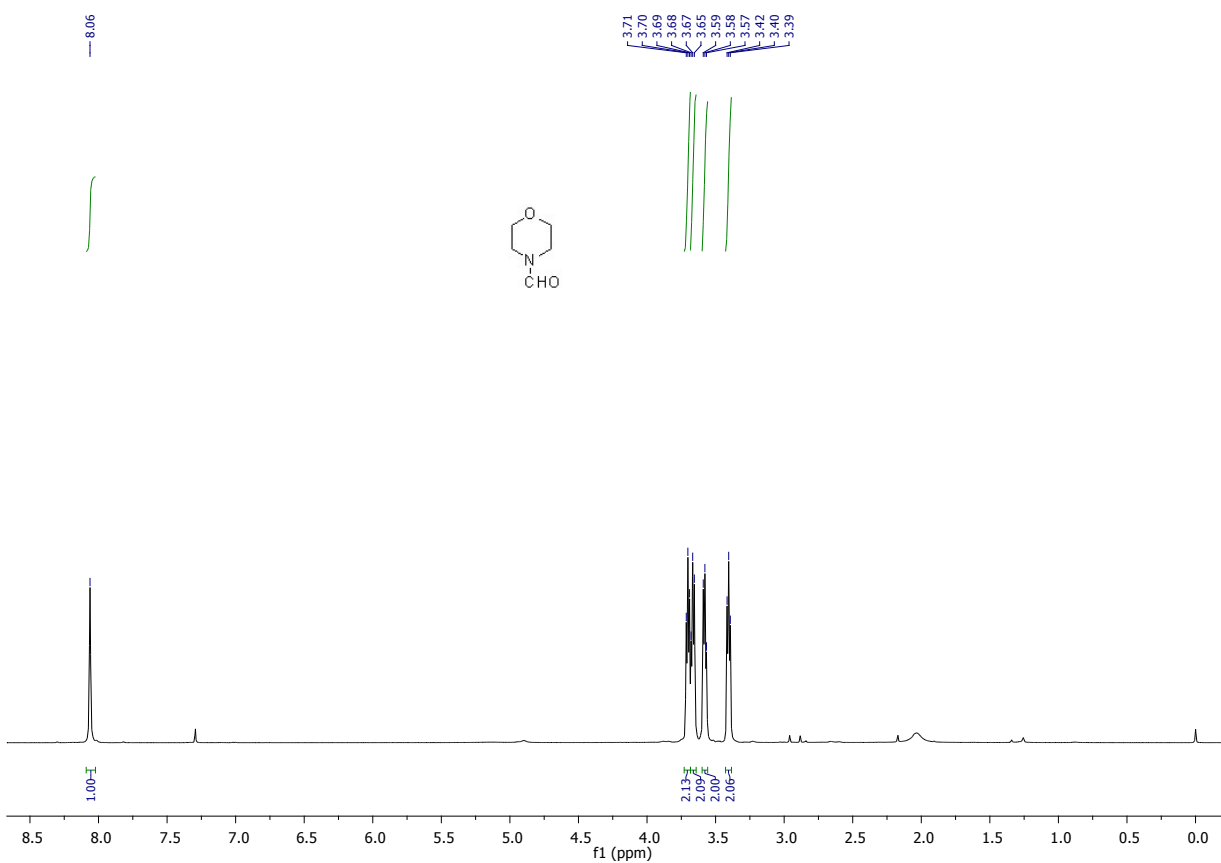
Methyl 2-formamido-3-(1H-indol-3-yl)propanoate(3k): H^1 NMR & C^{13} NMR



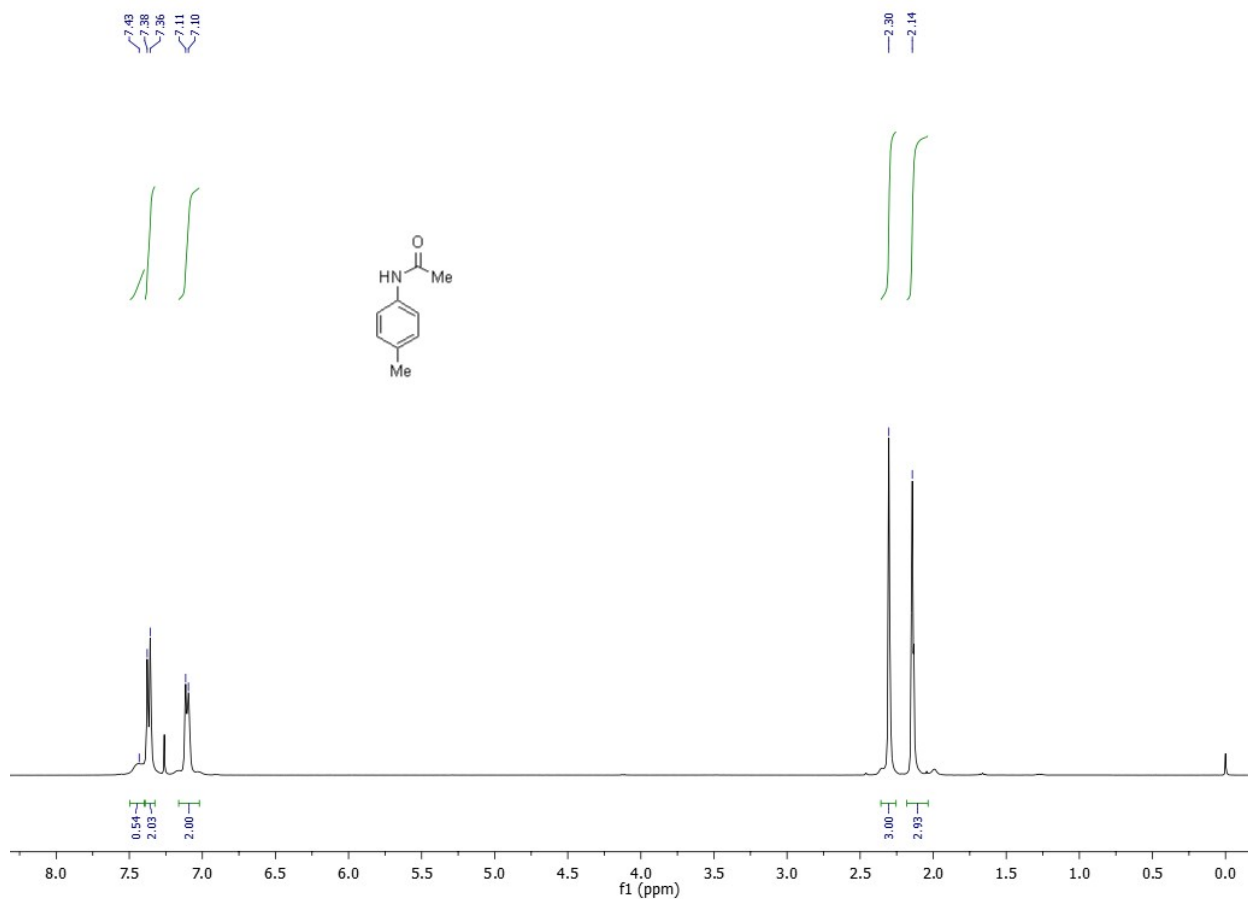
Piperidine-1-carbaldehyde(3l): H¹ NMR



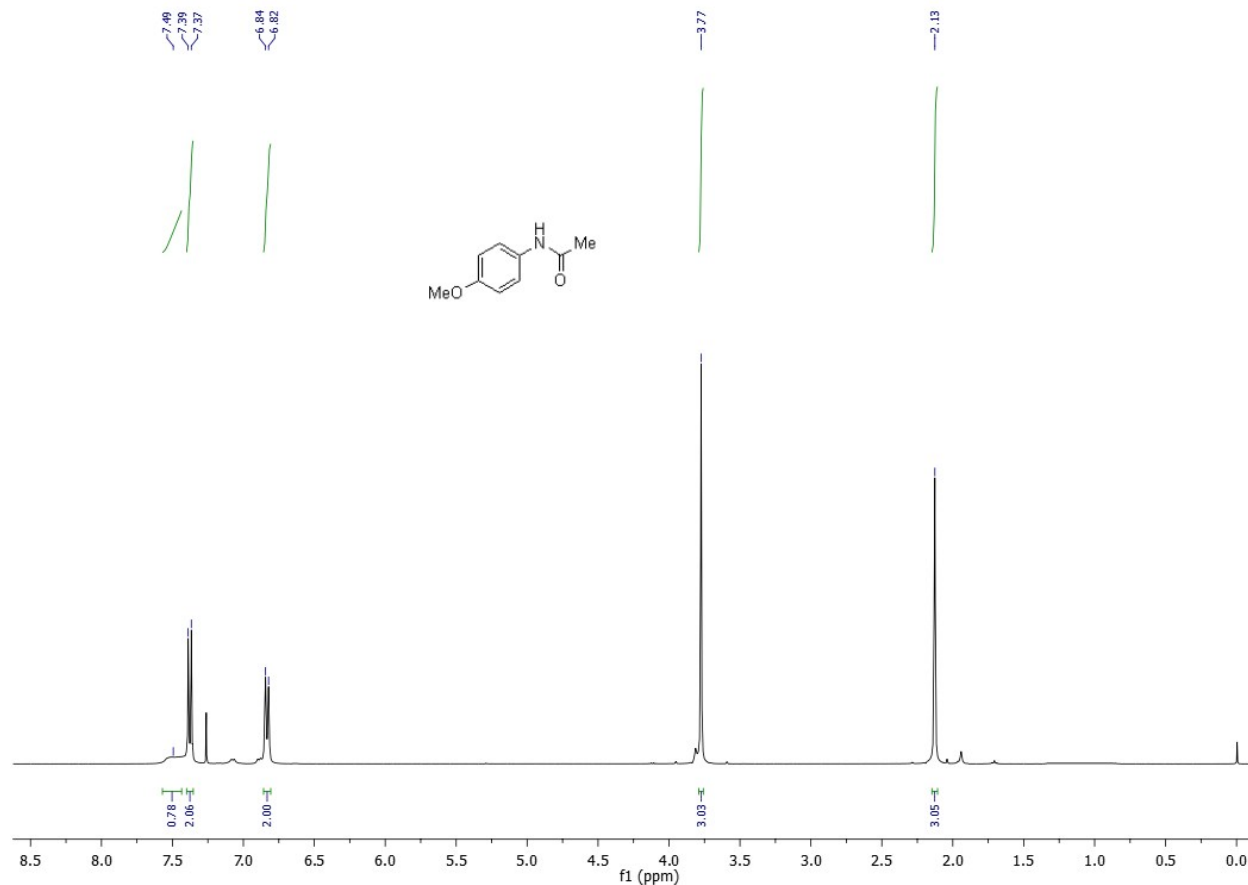
Morpholine-4-carbaldehyde(3m): H¹ NMR



***N*-(*p*-Tolyl)acetamide(3n): H¹ NMR**

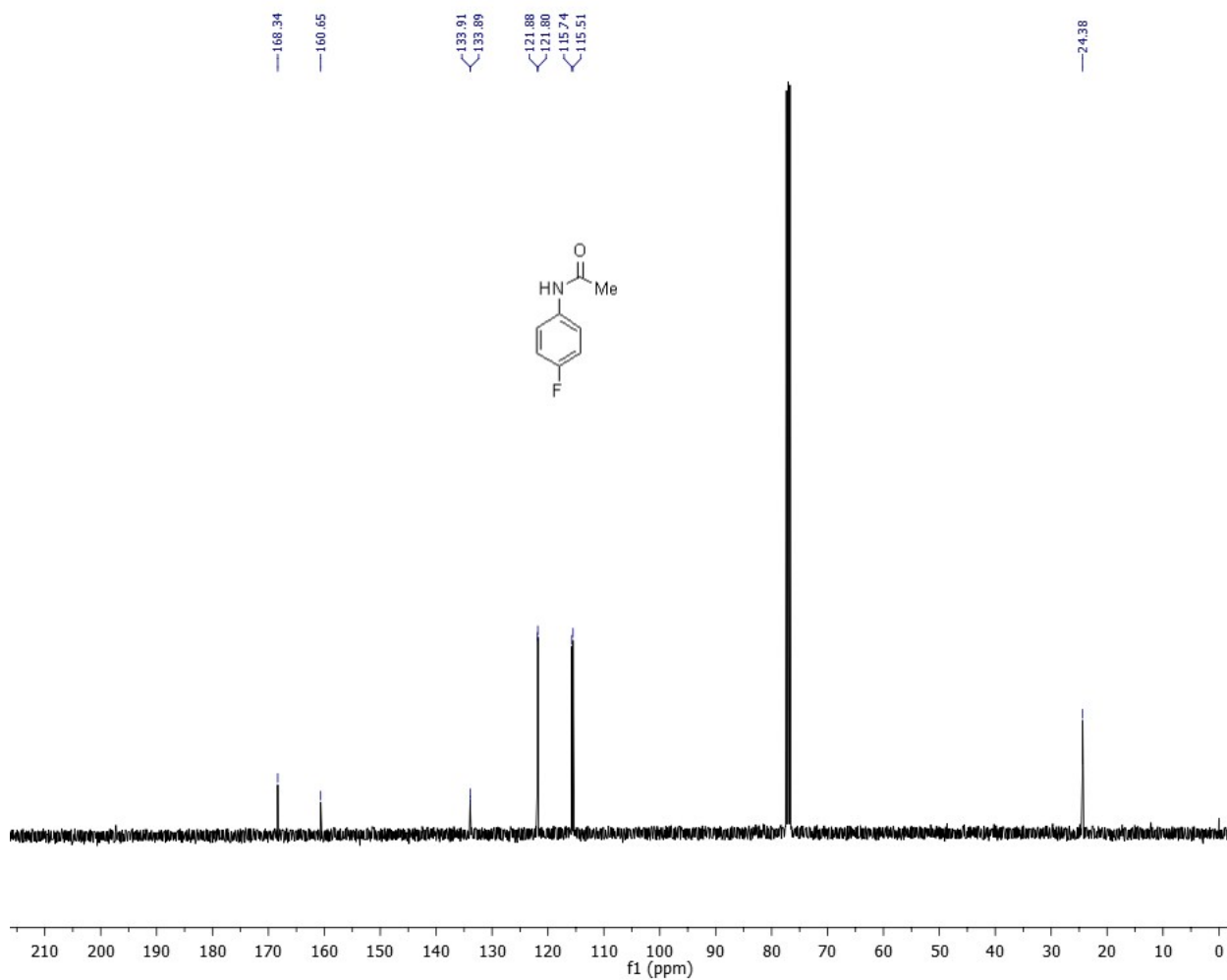
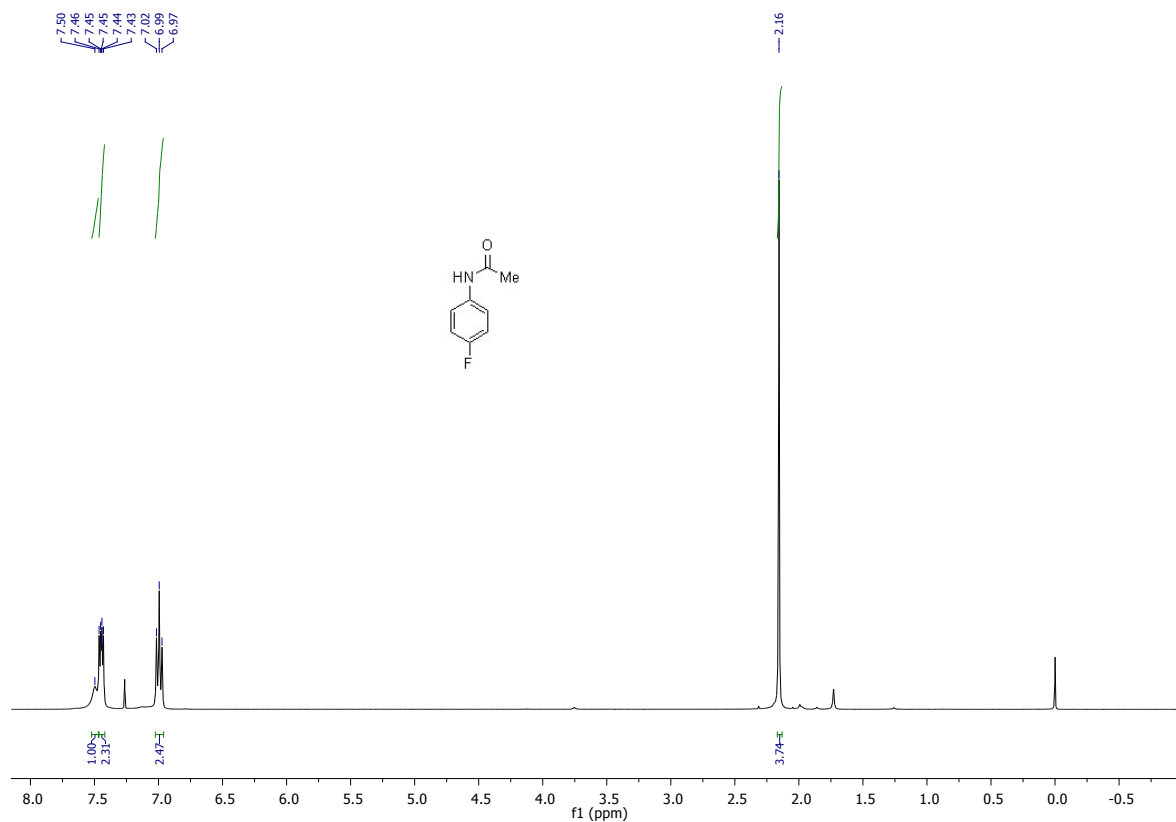


***N*-(4-Methoxyphenyl)acetamide(3o): H¹ NMR**

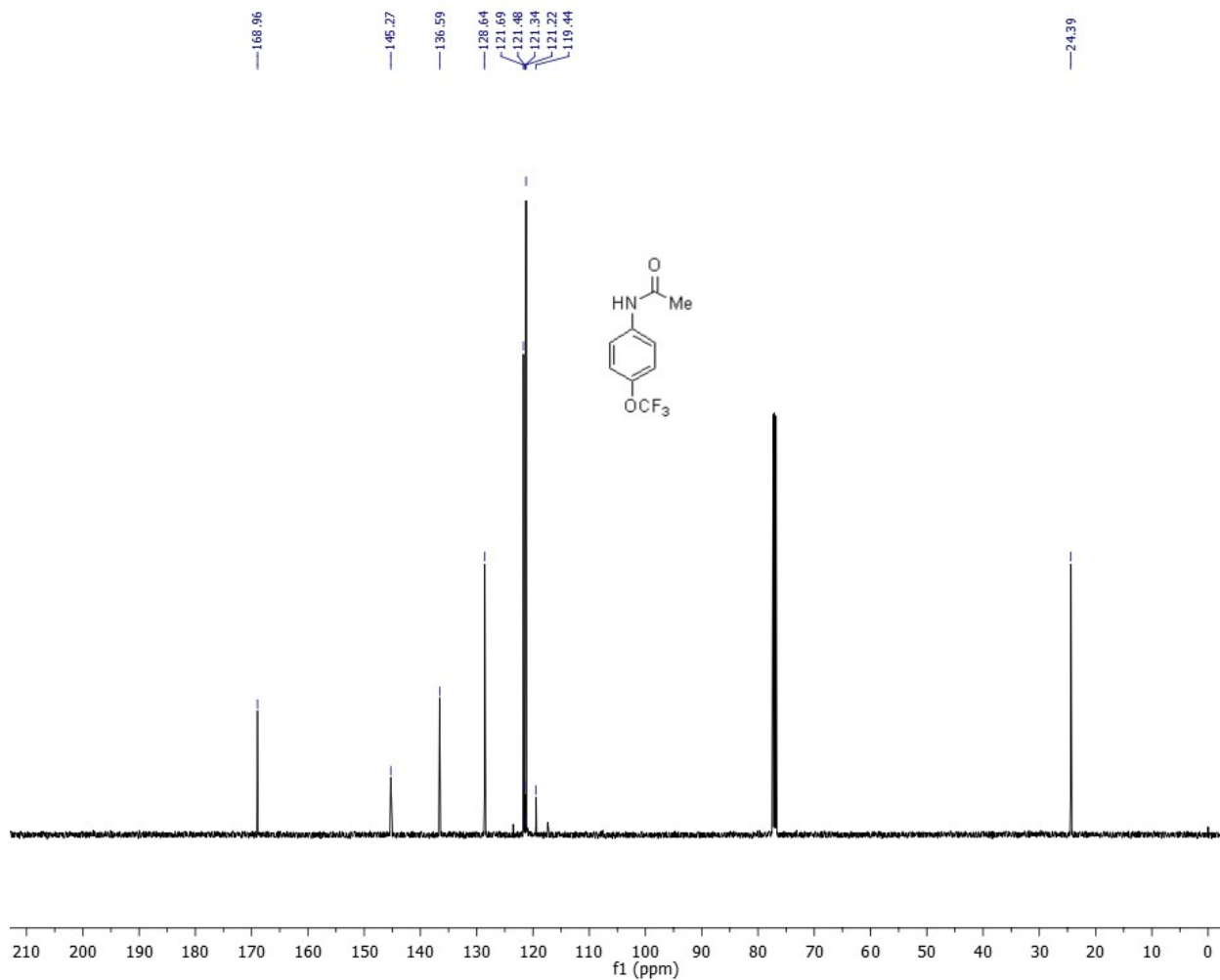
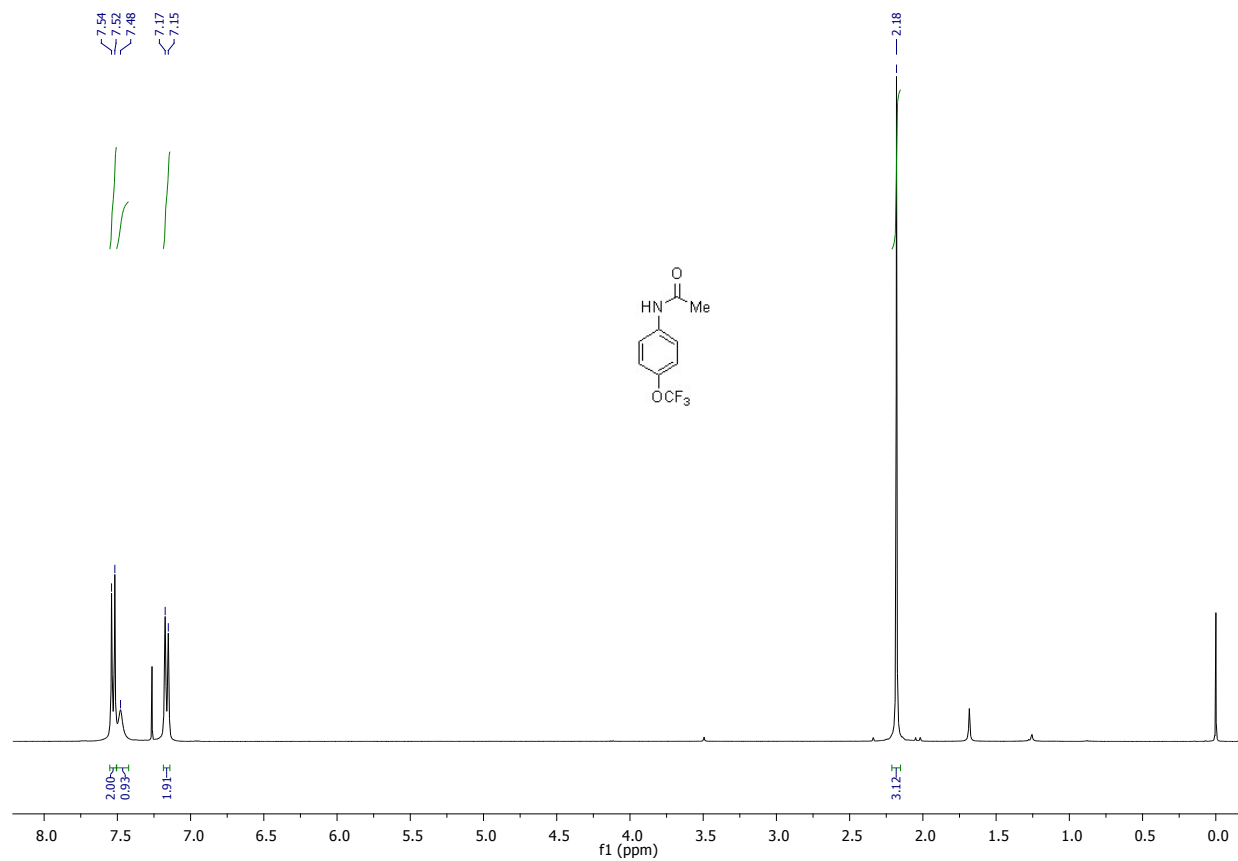


N-(4-

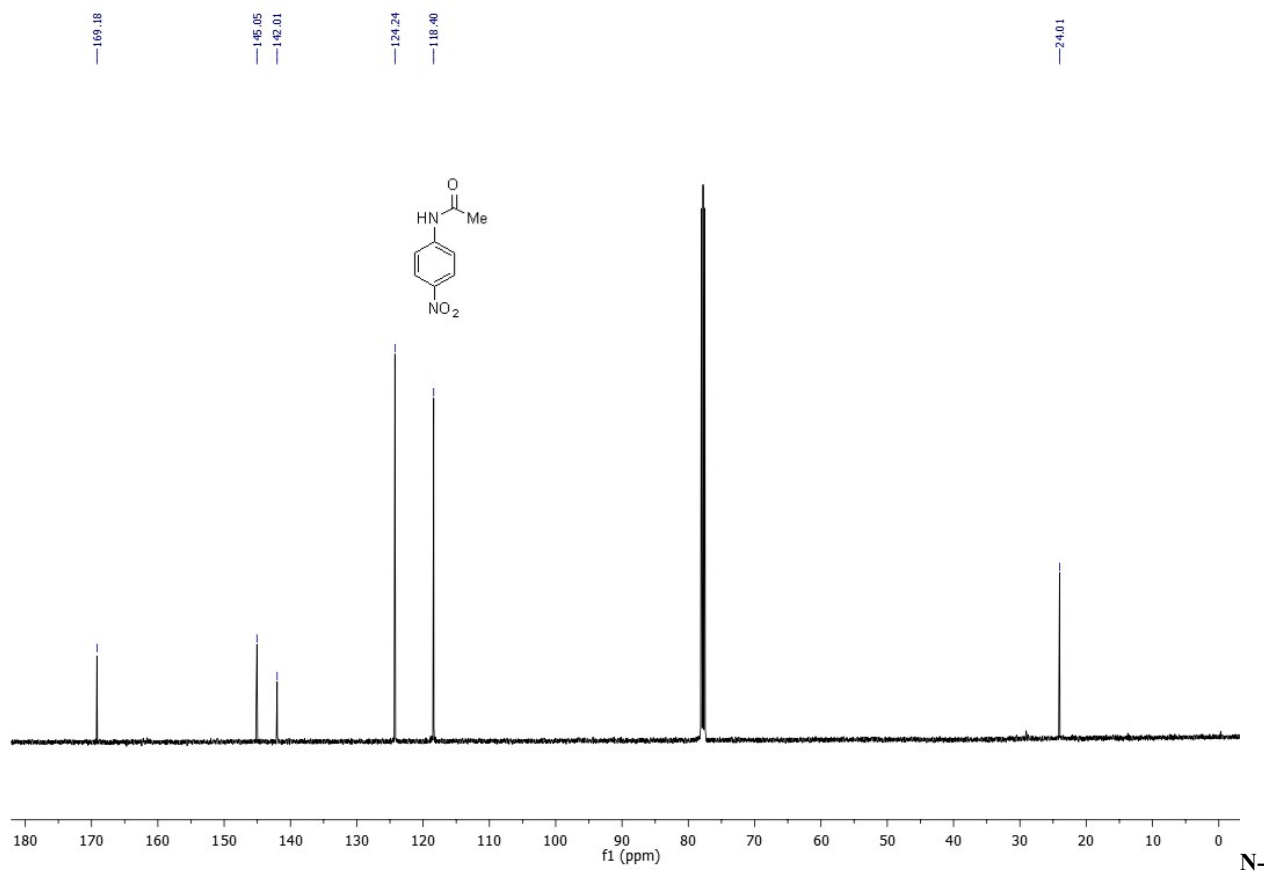
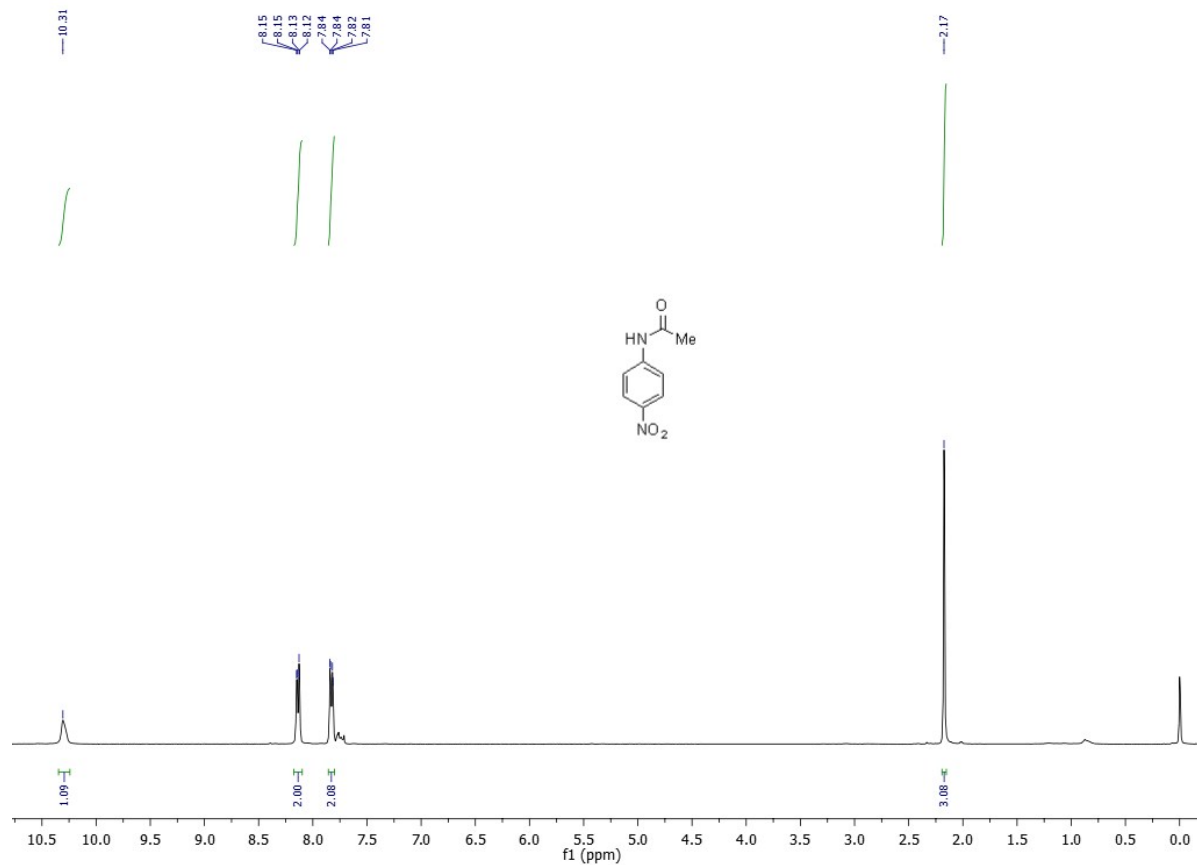
Fluorophenylacetamide(3p): ^1H NMR & ^{13}C NMR



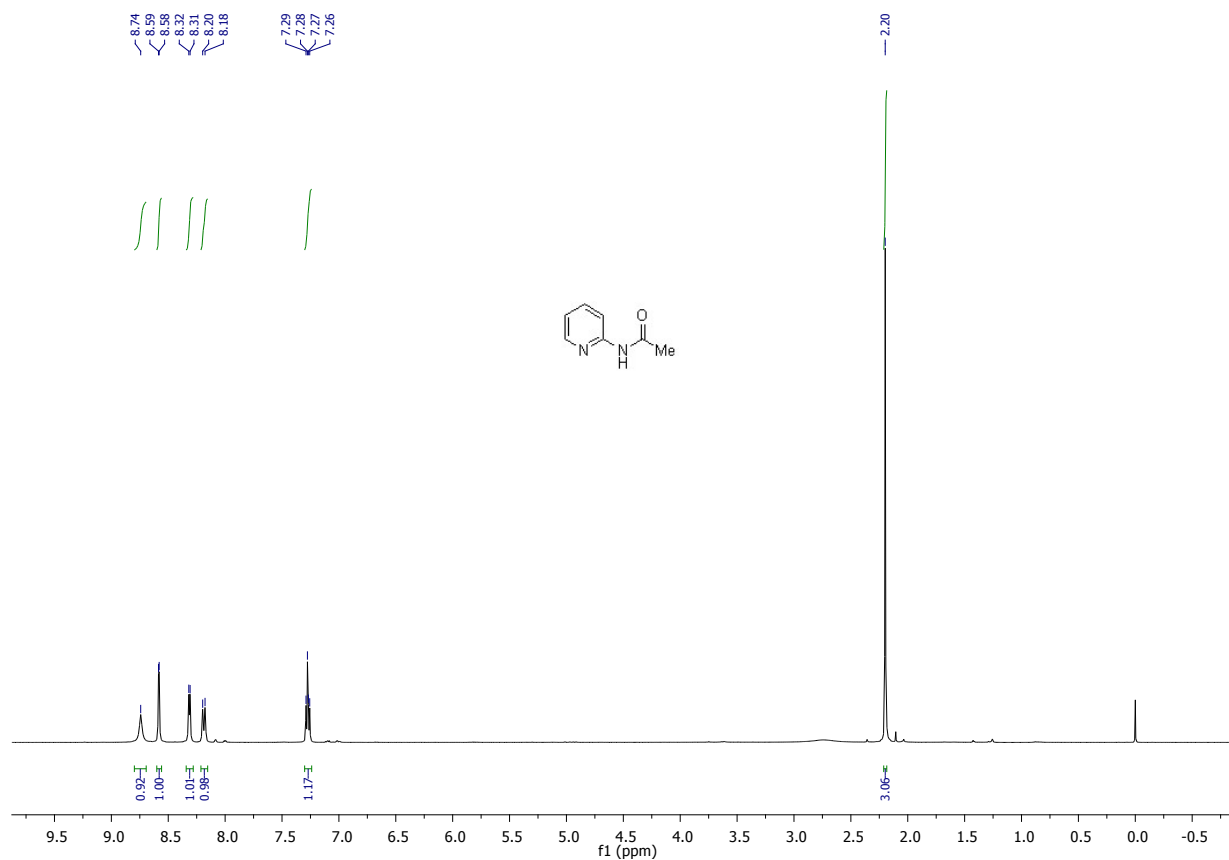
***N*-4-(Trifluoromethoxy)phenylacetamide(3q): ^1H NMR & ^{13}C NMR**



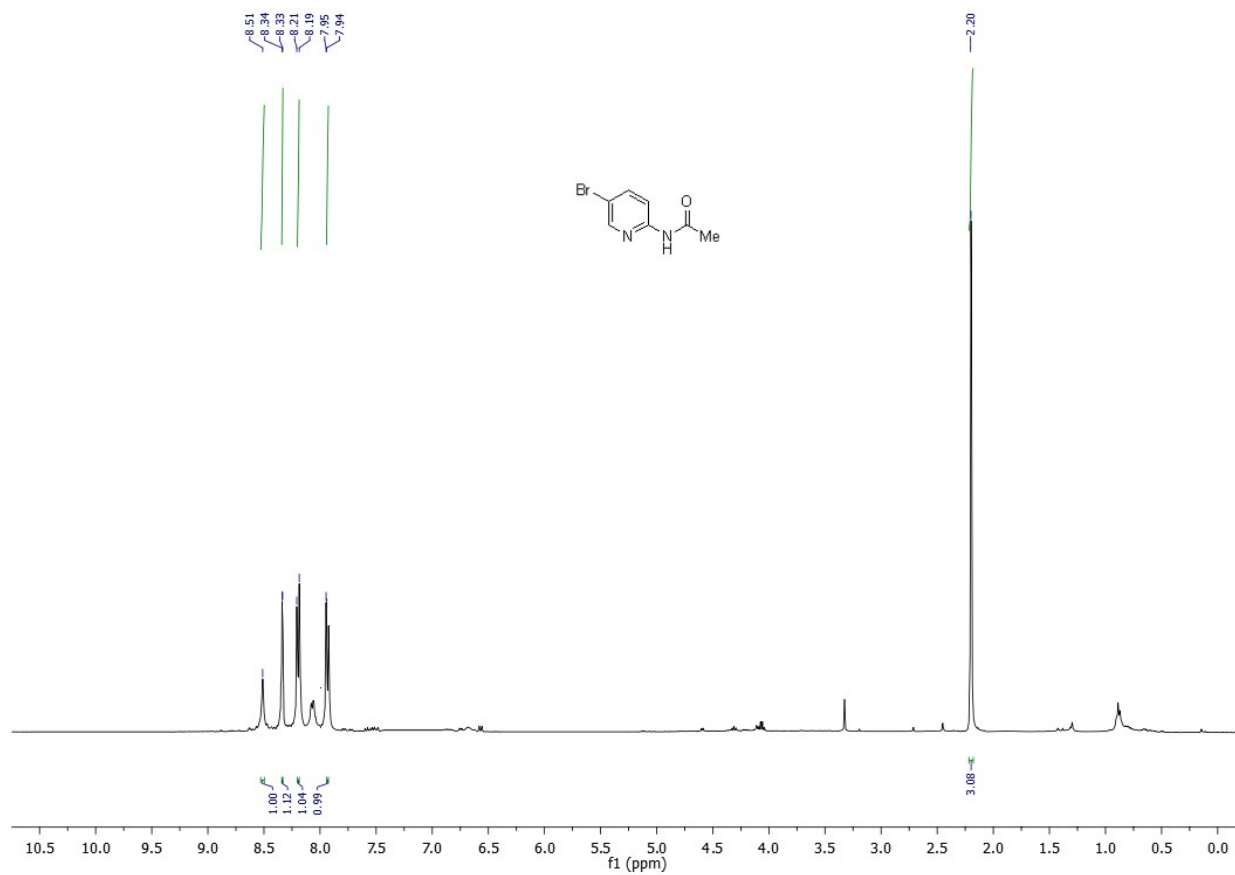
***N*-(4-Nitrophenyl)acetamide(3r): H¹ NMR & C¹³ NMR**

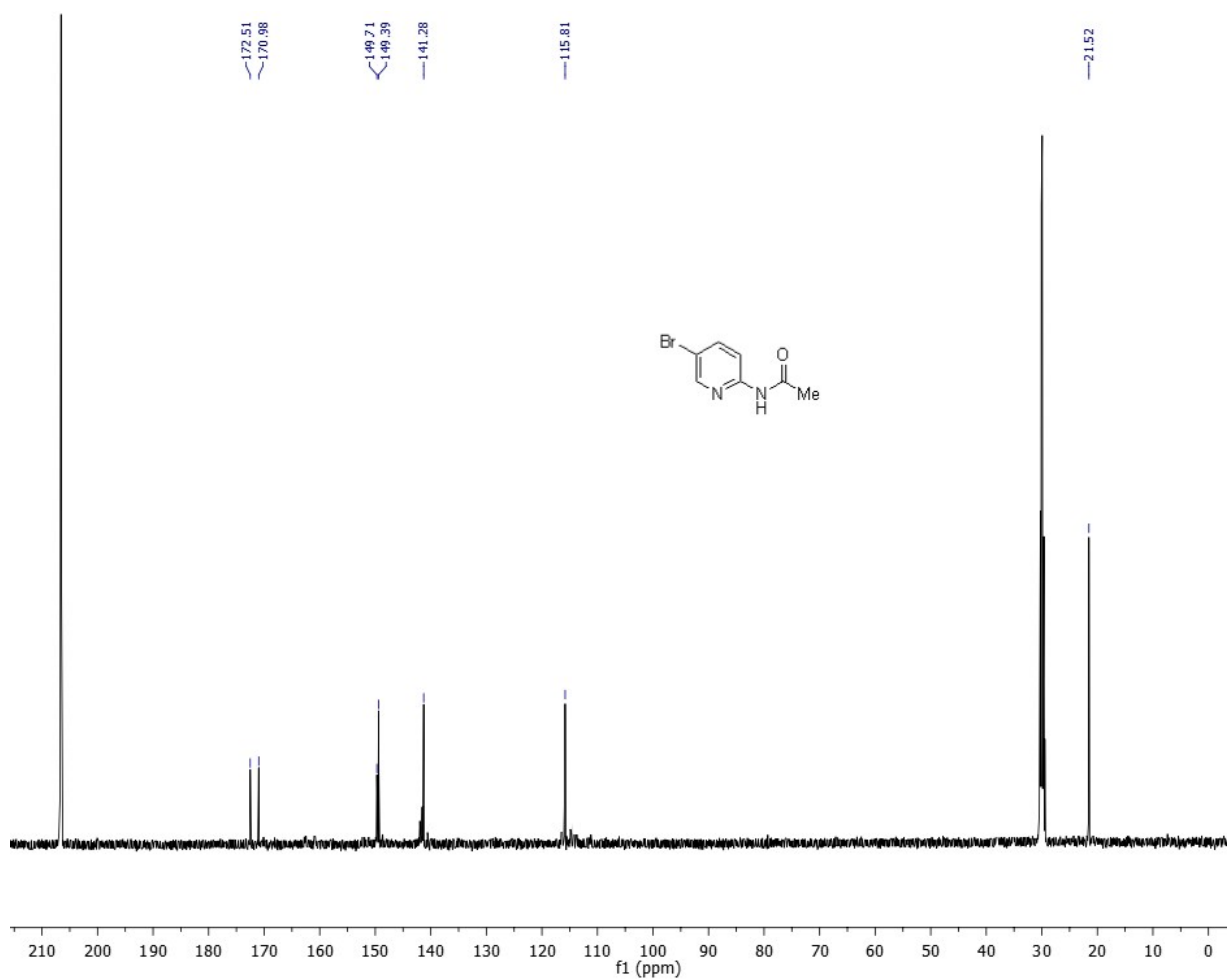


(Pyridin-2-yl)acetamide(3s): H¹ NMR

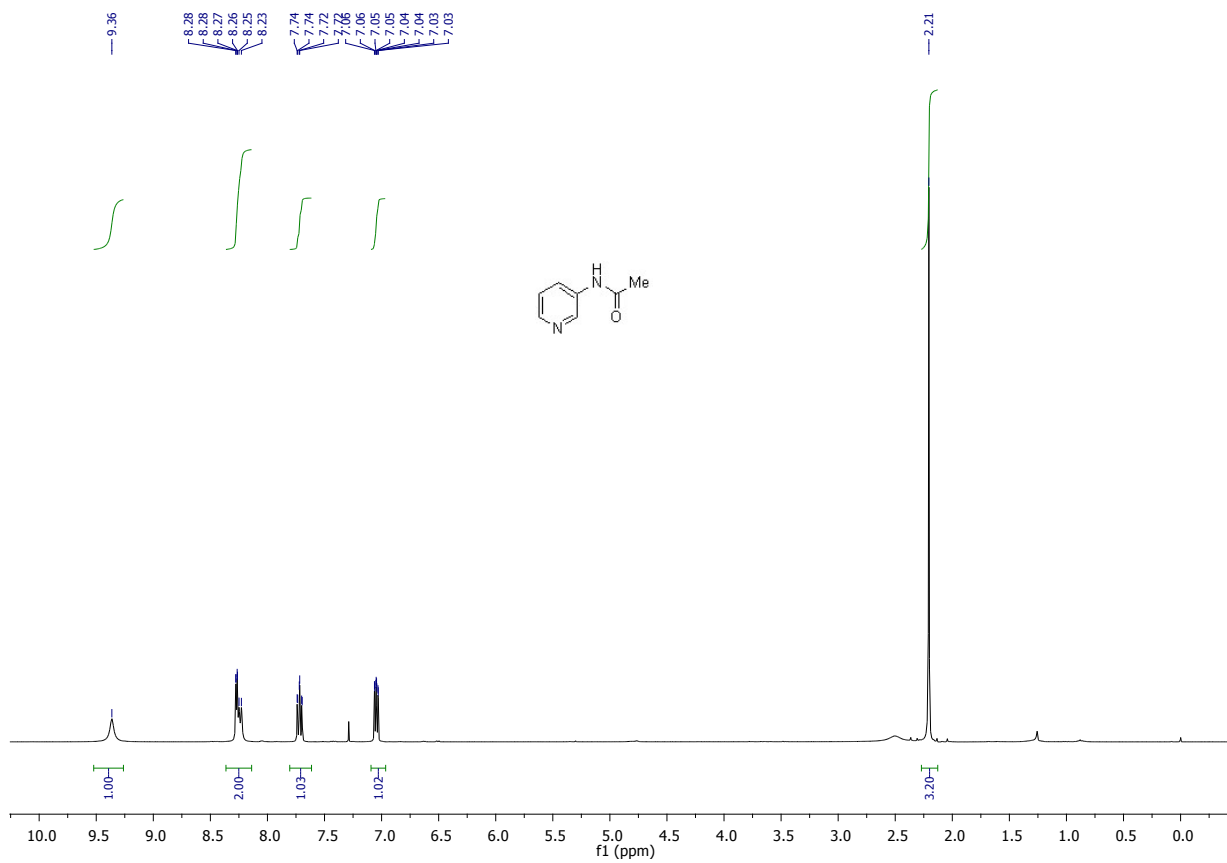


N-(4-Bromopyridin-2-yl)acetamide(3t): H¹ NMR & C¹³ NMR

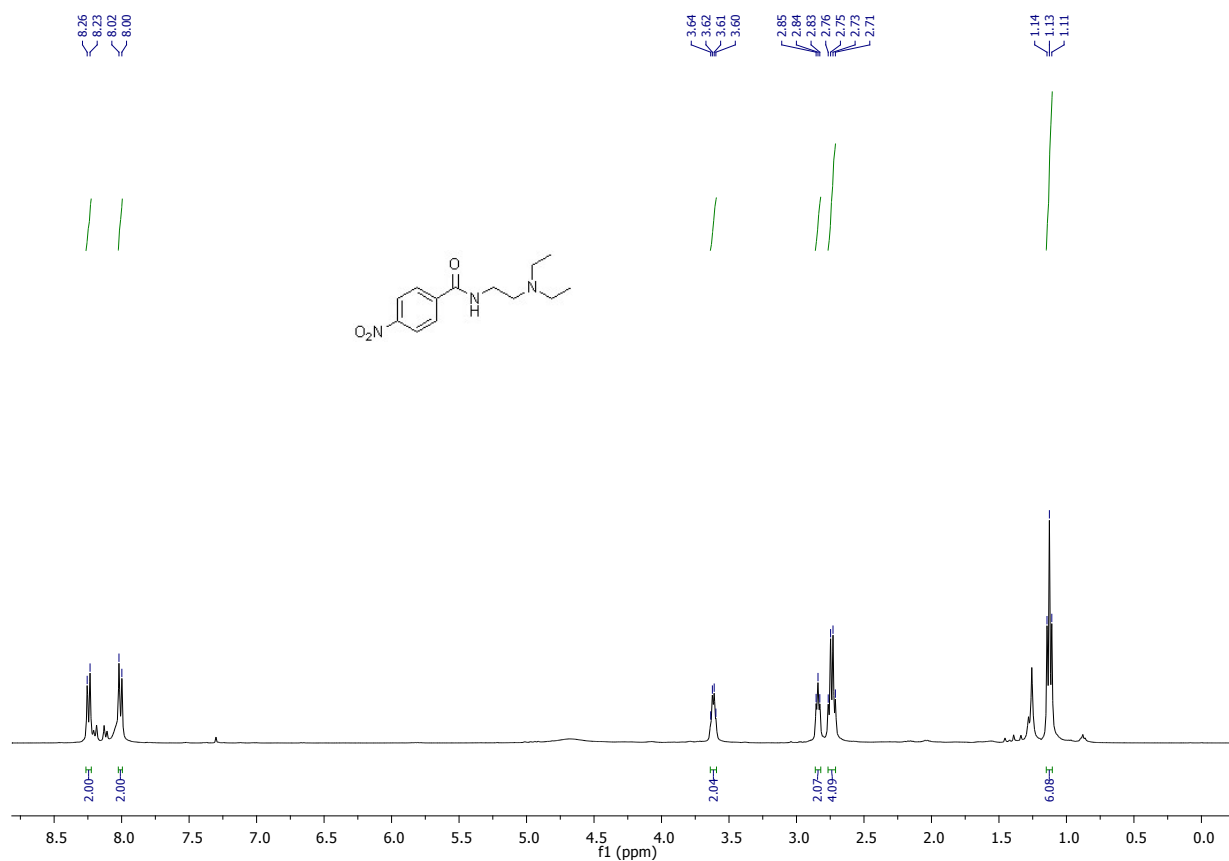




N-(Pyridin-3-yl)acetamide(3u): H^1 NMR



***N*-(2-(Diethylamino)ethyl)-4-nitrobenzamide: H^1 NMR**



Procainamide: H^1 NMR & C^{13} NMR

