

**Supplementary Information
for**

**Aqueous SDS micelle-promoted acid-catalyzed domino ABB'
imino Diels-Alder reaction: a mild and efficient synthesis of
privileged 2-methyl-tetrahydroquinoline scaffolds**

Diego R. Merchán Arenas, Carlos A. Martínez Bonilla and Vladimir V. Kouznetsov

Laboratorio de Química Orgánica y Biomolecular, Escuela de Química, Universidad Industrial de
Santander, A. A. 678, Bucaramanga, Colombia.

E-mail: kouznet@uis.edu.co, vkuznechnik@gmail.com

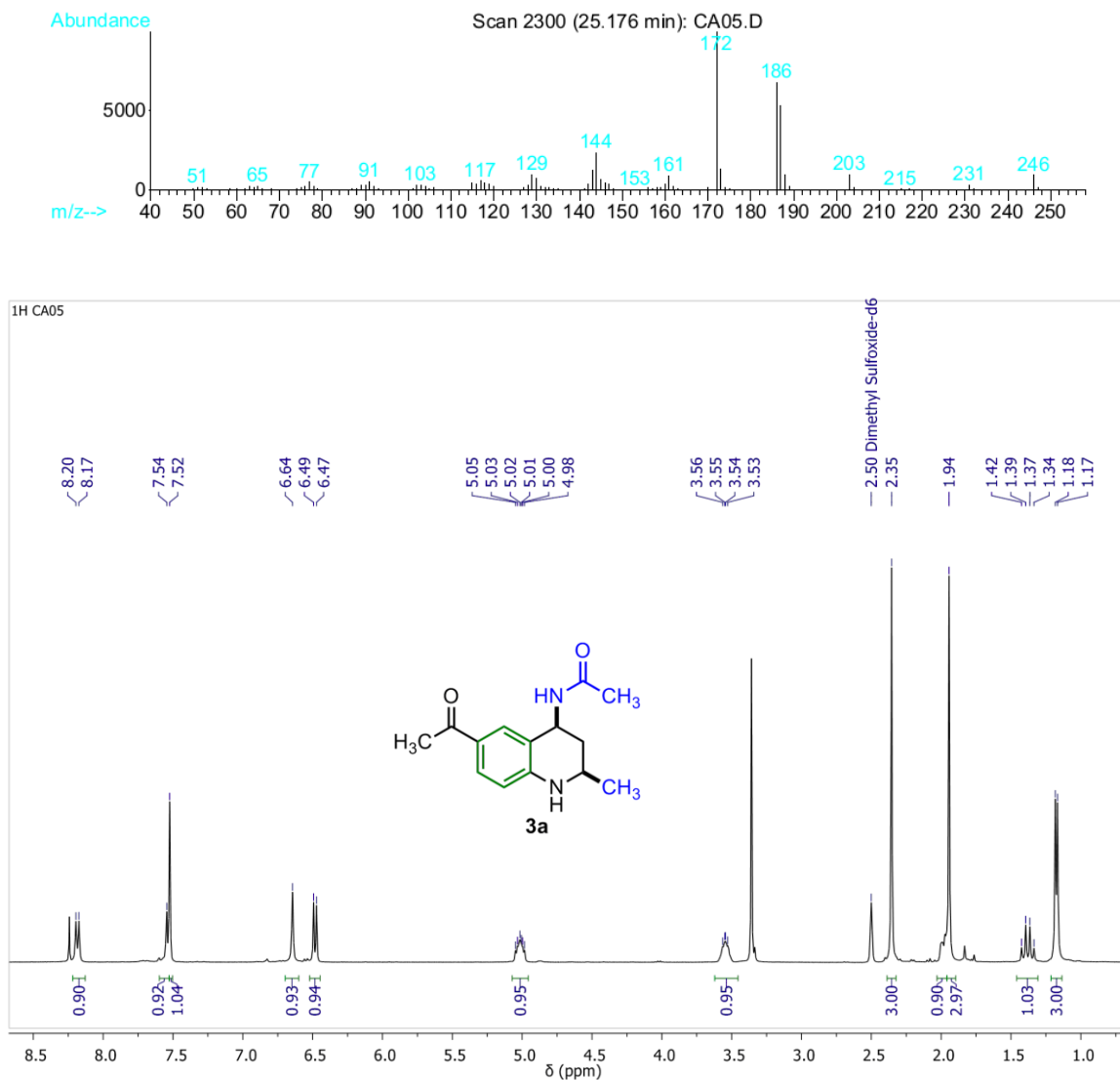
Table of Contents	Pages
1. General experimental details	S1
2. Copies of MS, ¹H NMR, ¹³C NMR and 2D spectra of all compounds	S2-S41

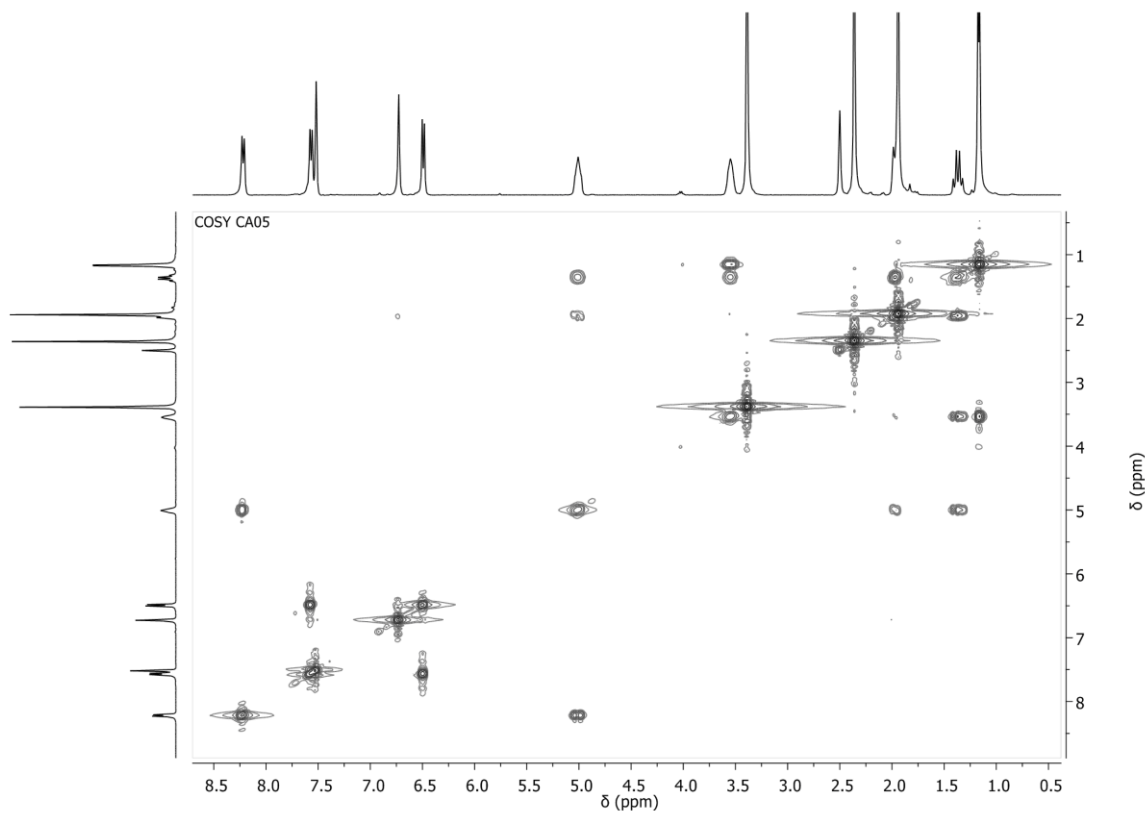
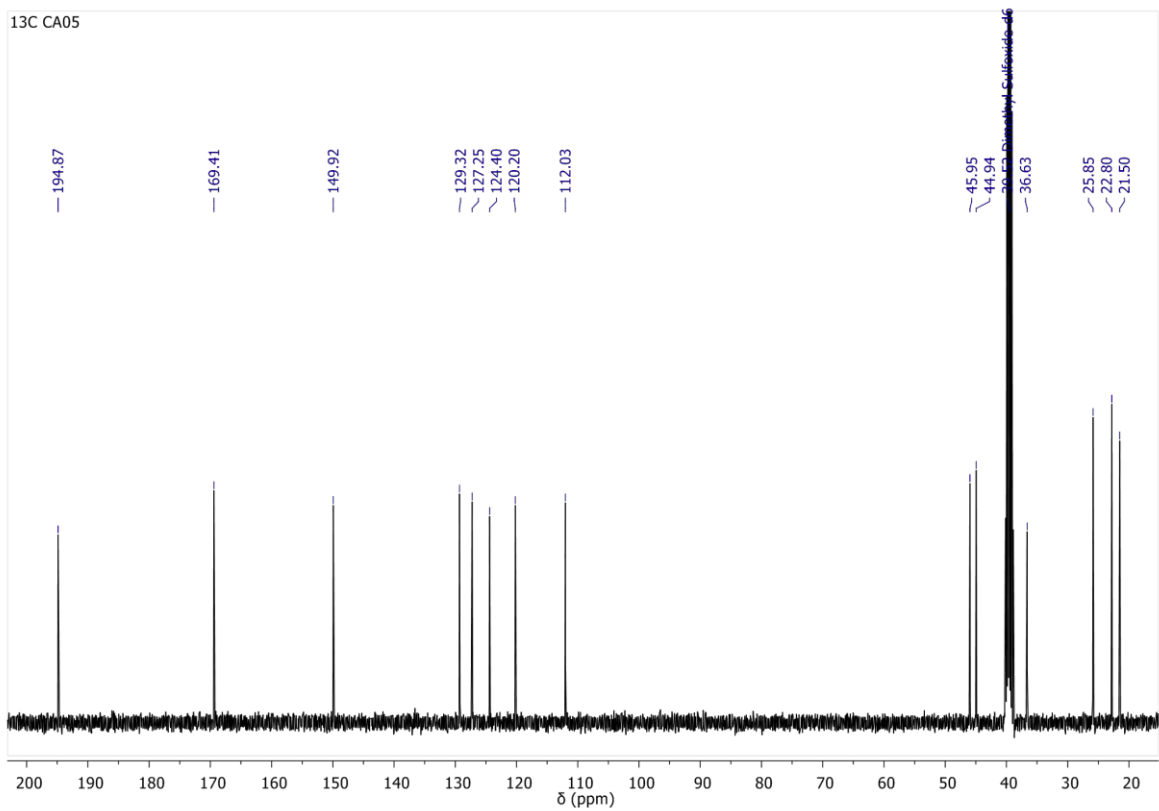
1. General experimental details

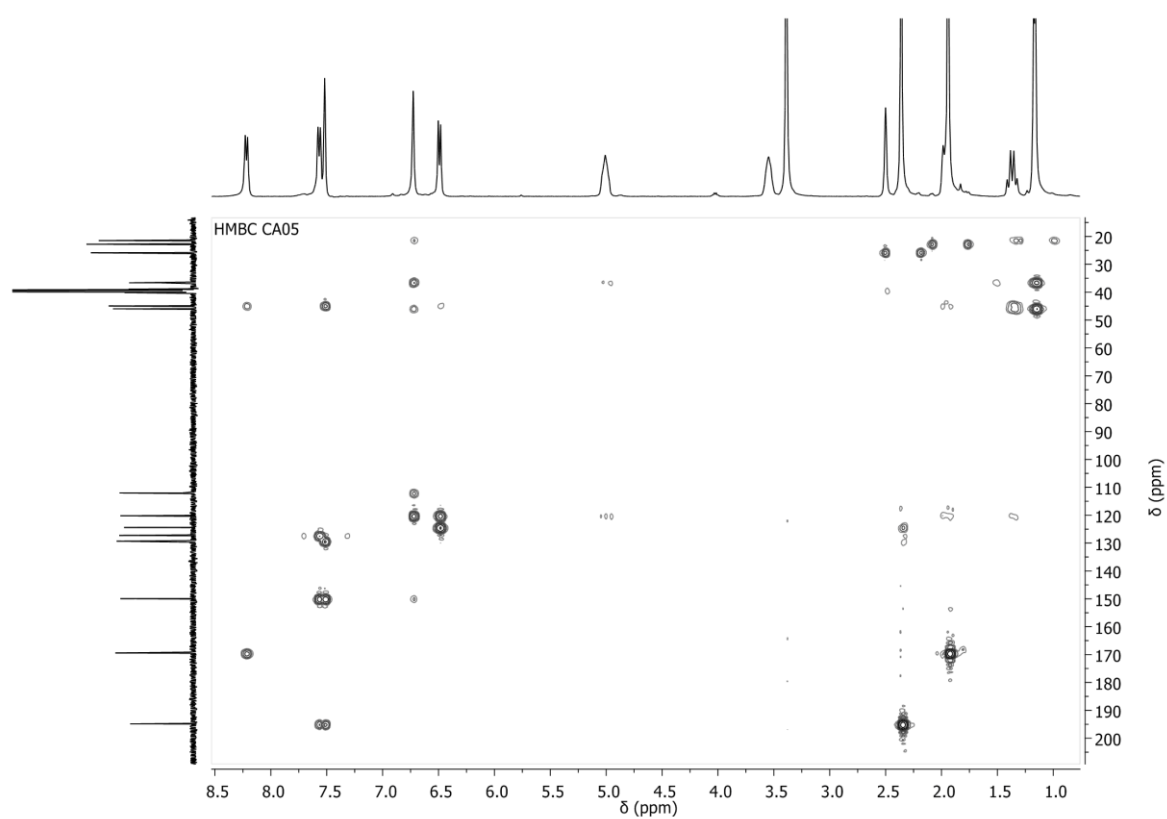
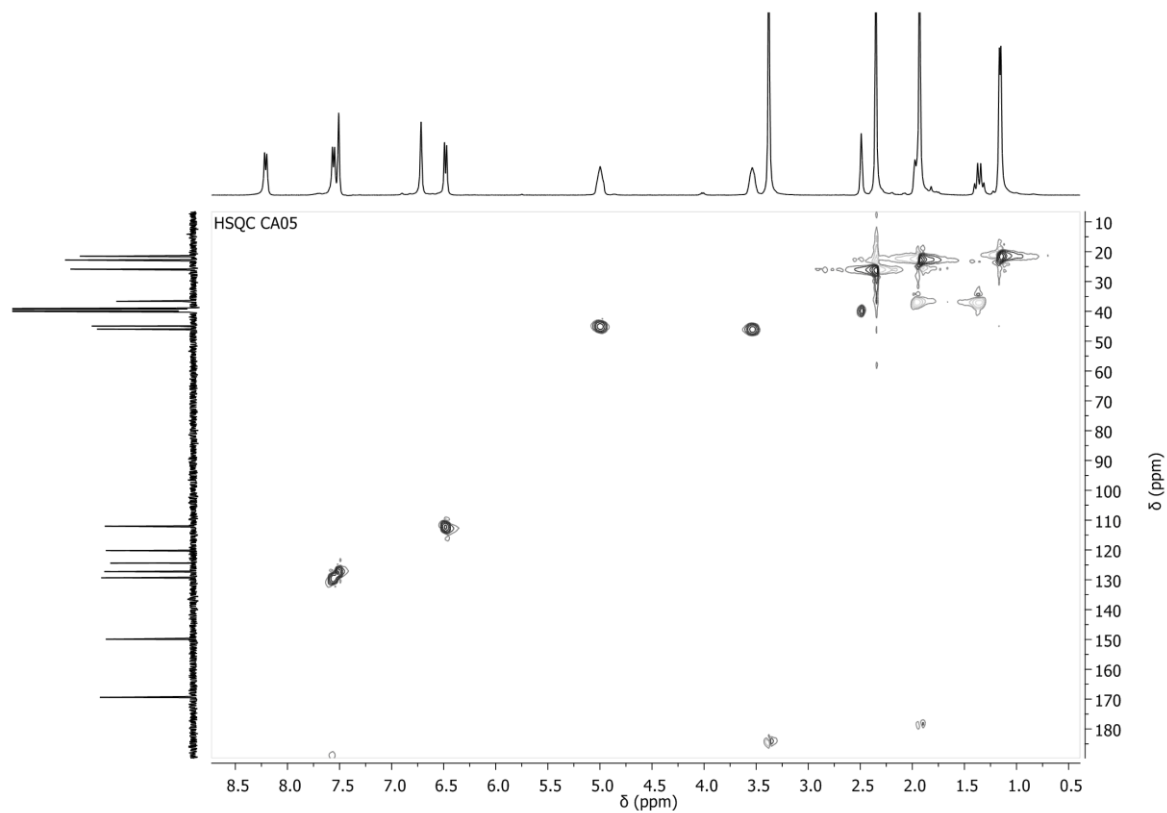
The reagents were of synthesis degree and were used without previous purification. The melting points (uncorrected) were determined with a Fisher-Johns melting point apparatus. The IR spectra were recorded on a Lumex Infracum FT-02 spectrophotometer in KBr and thin film. NMR (1D and 2D) spectra were recorded on Bruker Avance-400 spectrometer. Chemical shifts are reported in ppm (δ) relative to the solvent peak (2.50 and 7.26 ppm for DMSO-*d*₆ and CDCl₃ for protons, respectively). A Agilent Technologies 6890 plus Gas Chromatograph interfaced to an Agilent Technologies MSD 5963 Selective Detector (MSD) with a Chemstation Data system G17001DA was used for MS identification at 70 eV using a 60 m capillary column coated with HP-5 [5 %-phenyl-poly(dimethyl-siloxane)]. Elemental analyses were performed on a Perkin Elmer 2400 Series II analyzer and were within ± 0.4 of theoretical values. The reaction progress was monitored using thin layer chromatography on a silufol UV254 TLC aluminum sheet.

2. Copies of MS, ^1H NMR, ^{13}C NMR and 2D spectra of THQ compounds.

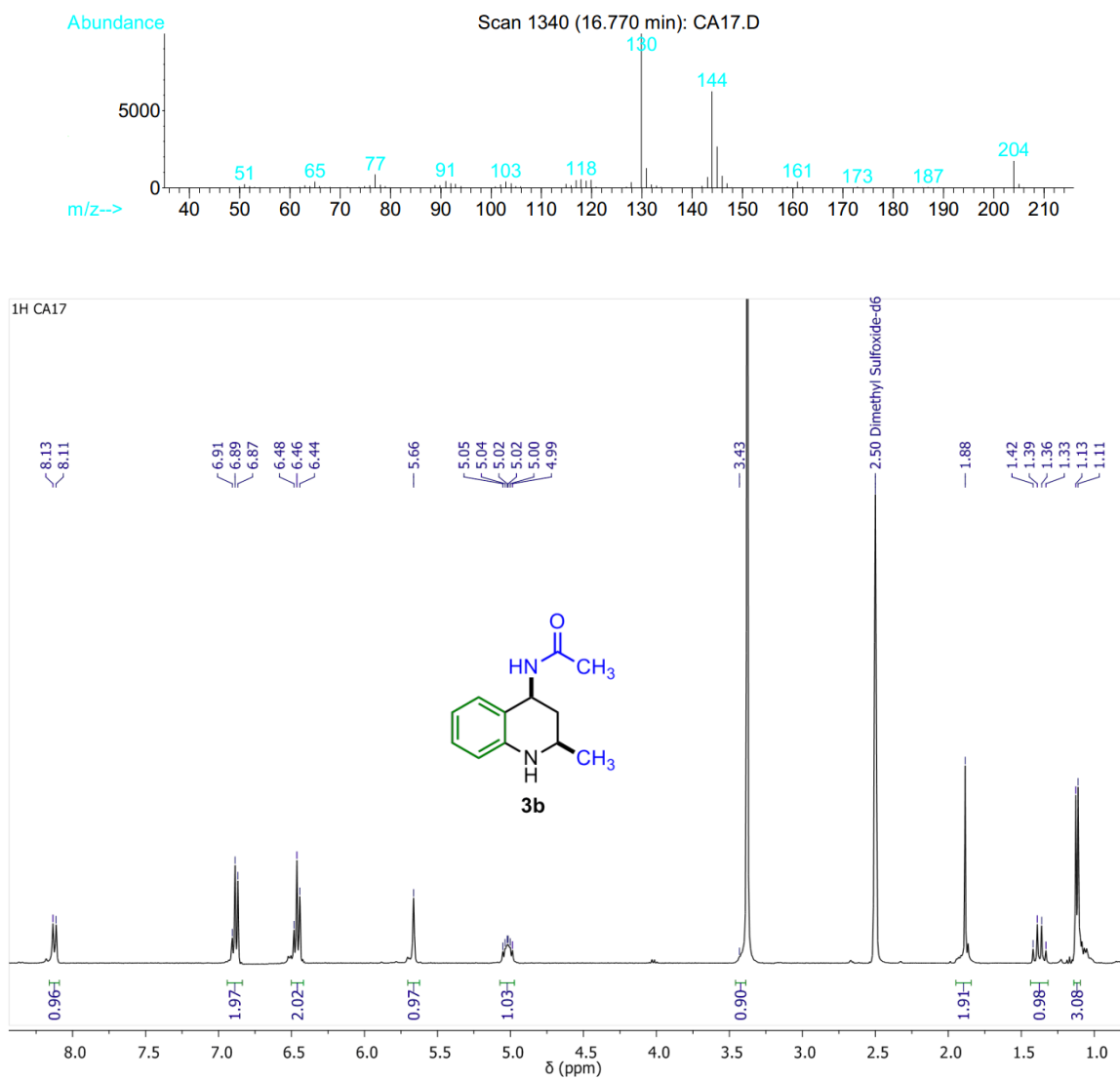
N-(6-Acetyl-2-methyl-1,2,3,4-tetrahydroquinolin-4-yl) acetamide, **3a**.

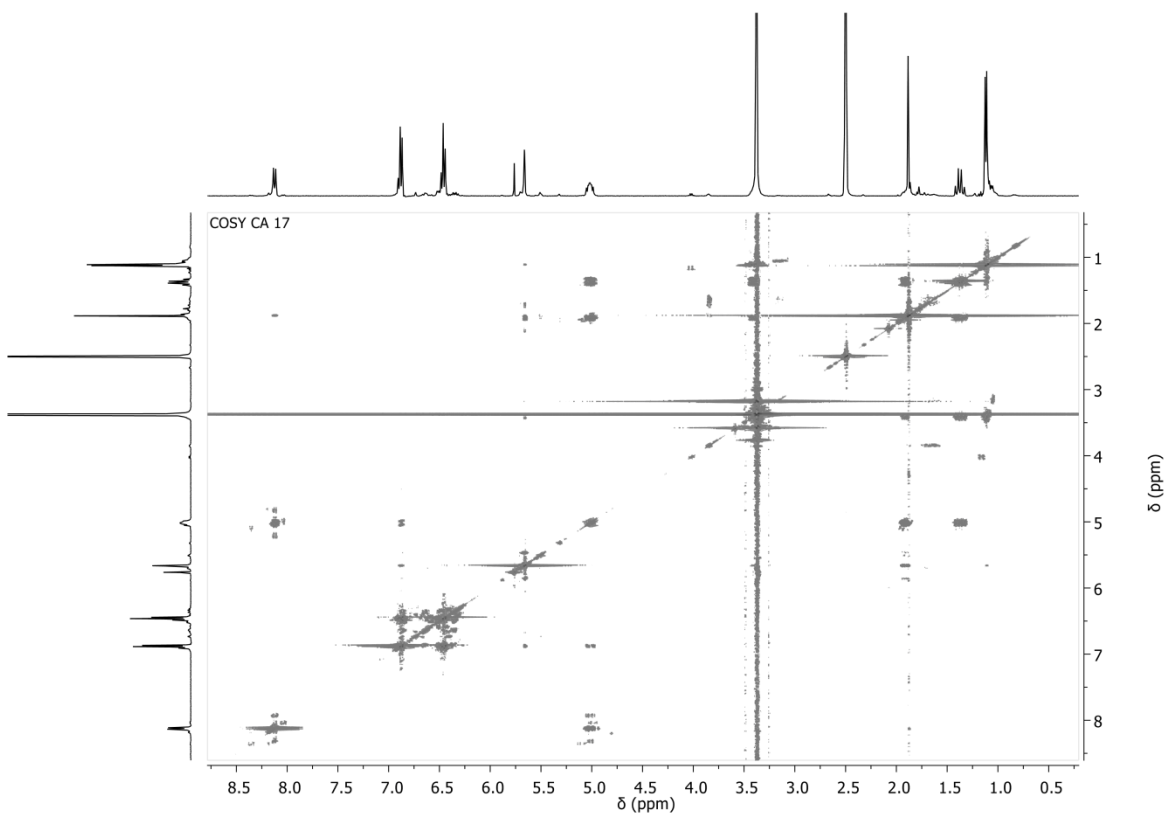
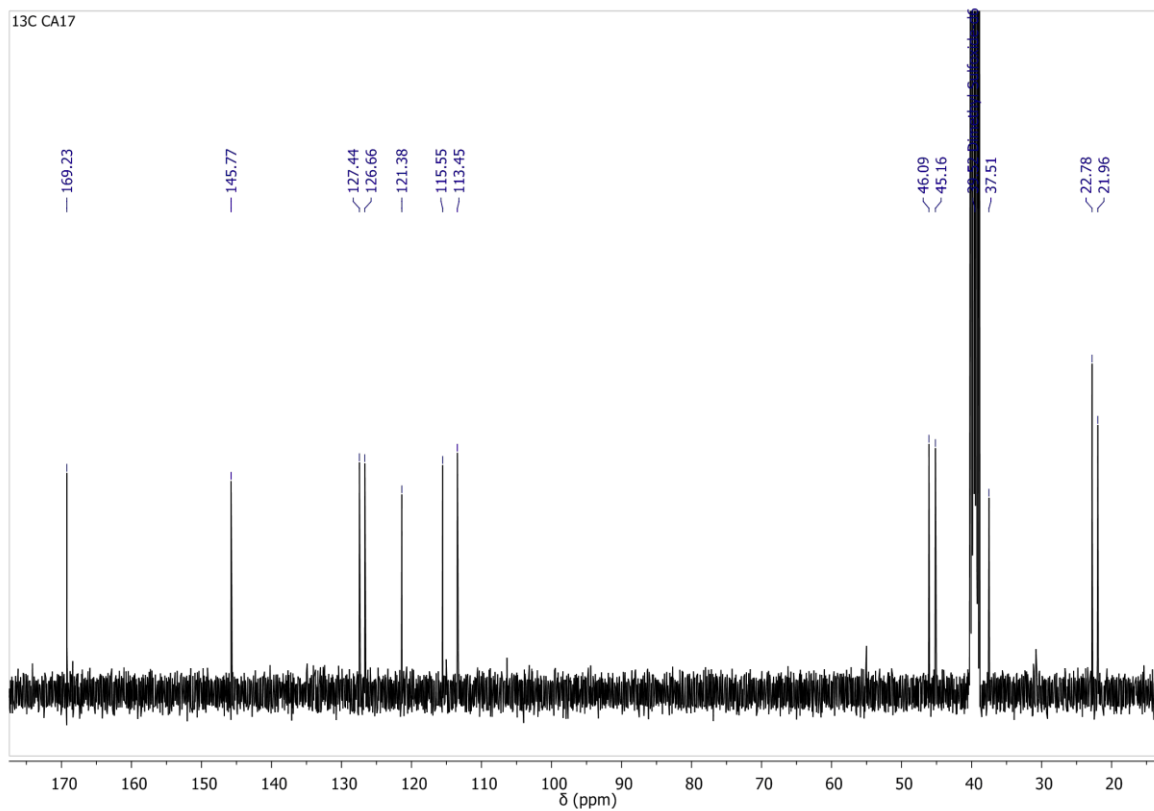


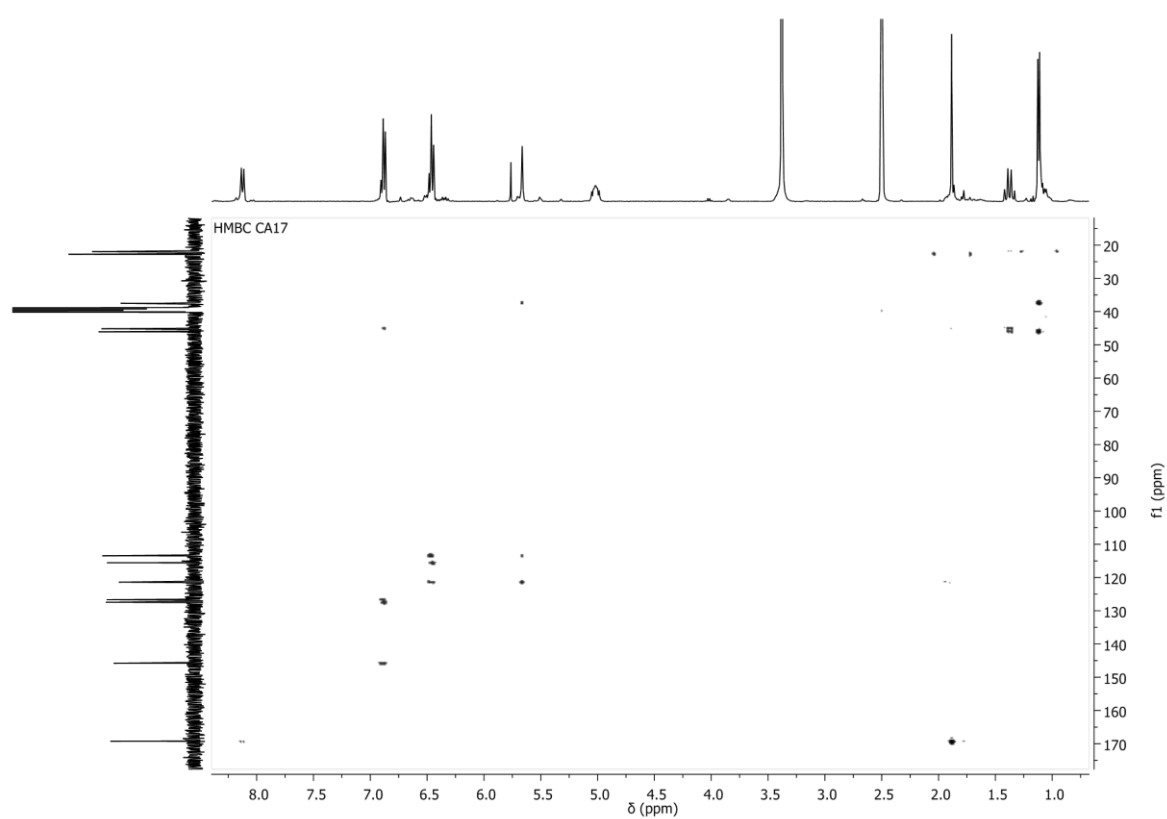
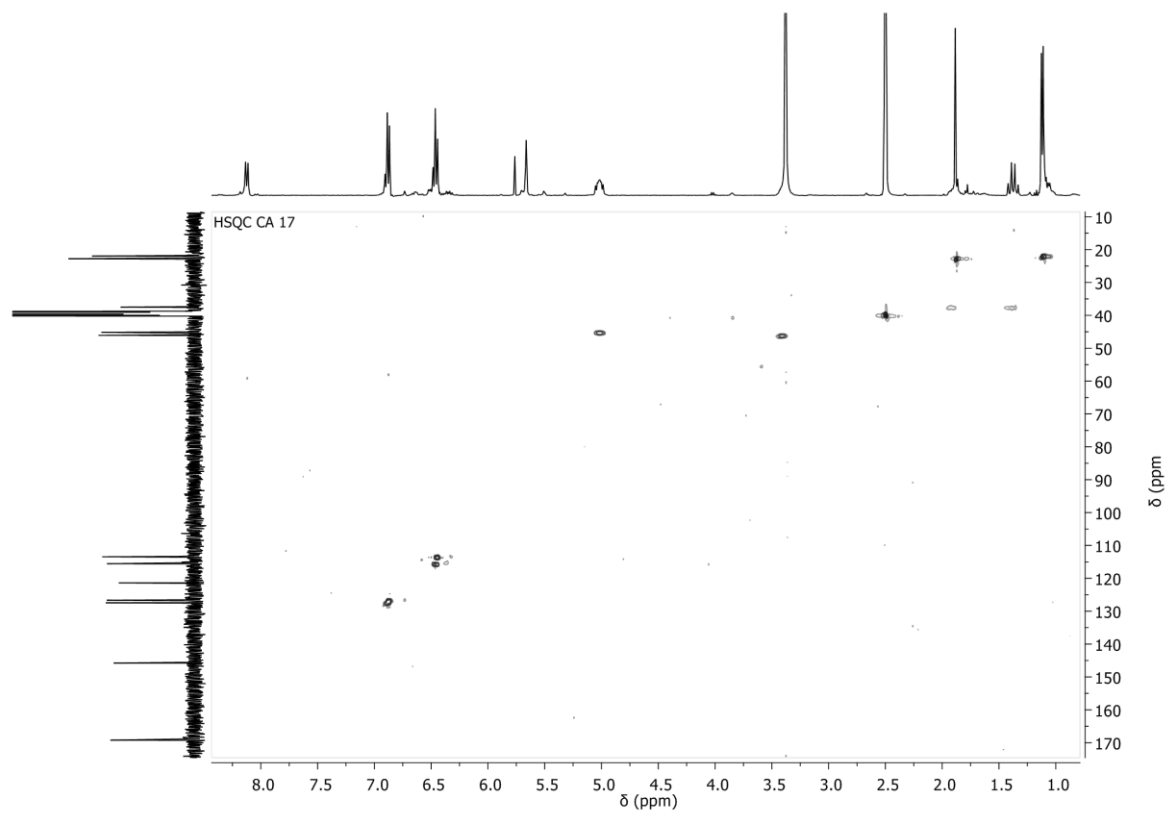




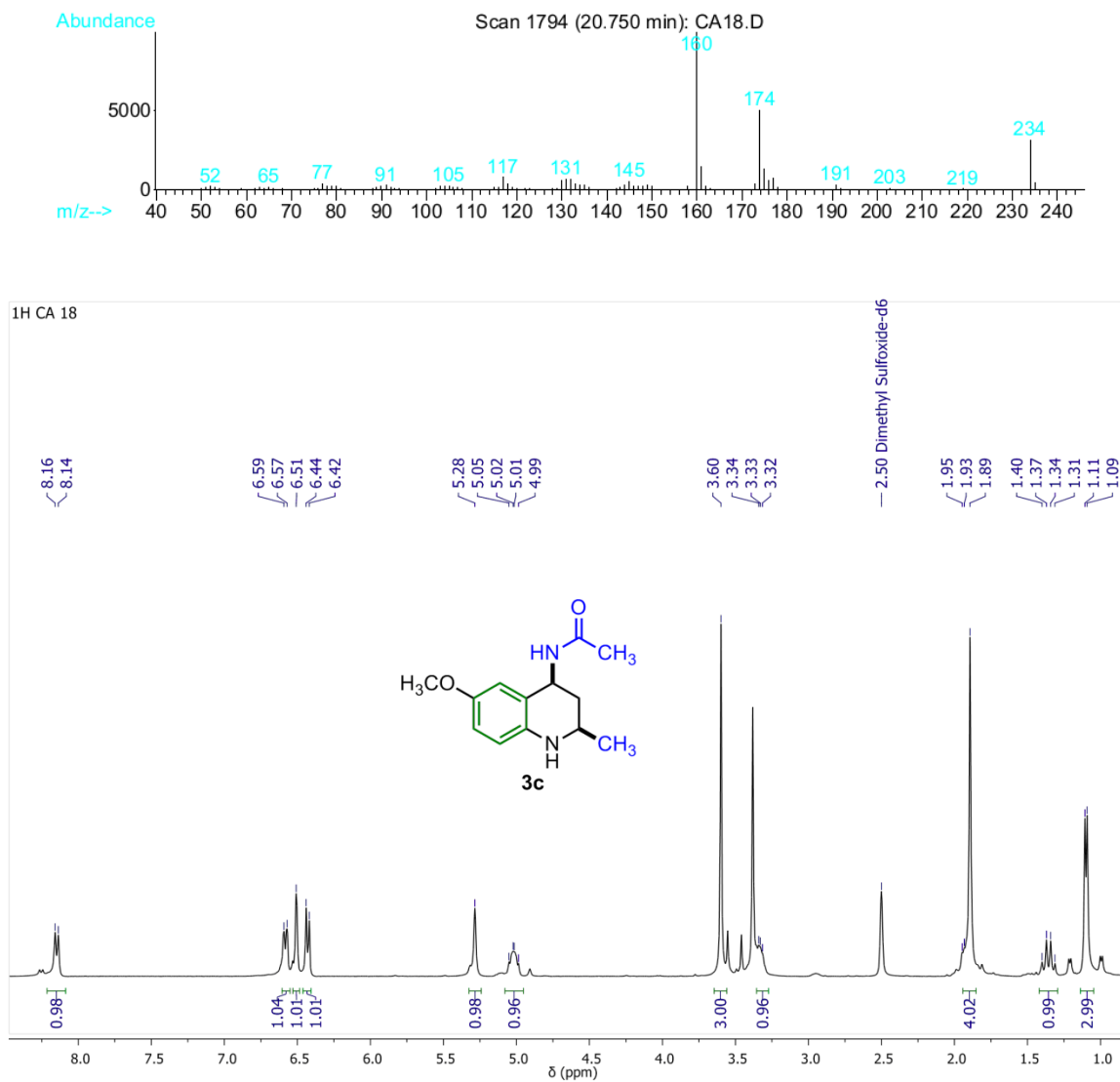
N-(2-Methyl-1,2,3,4-tetrahydroquinolin-4-yl) acetamide, **3b**.

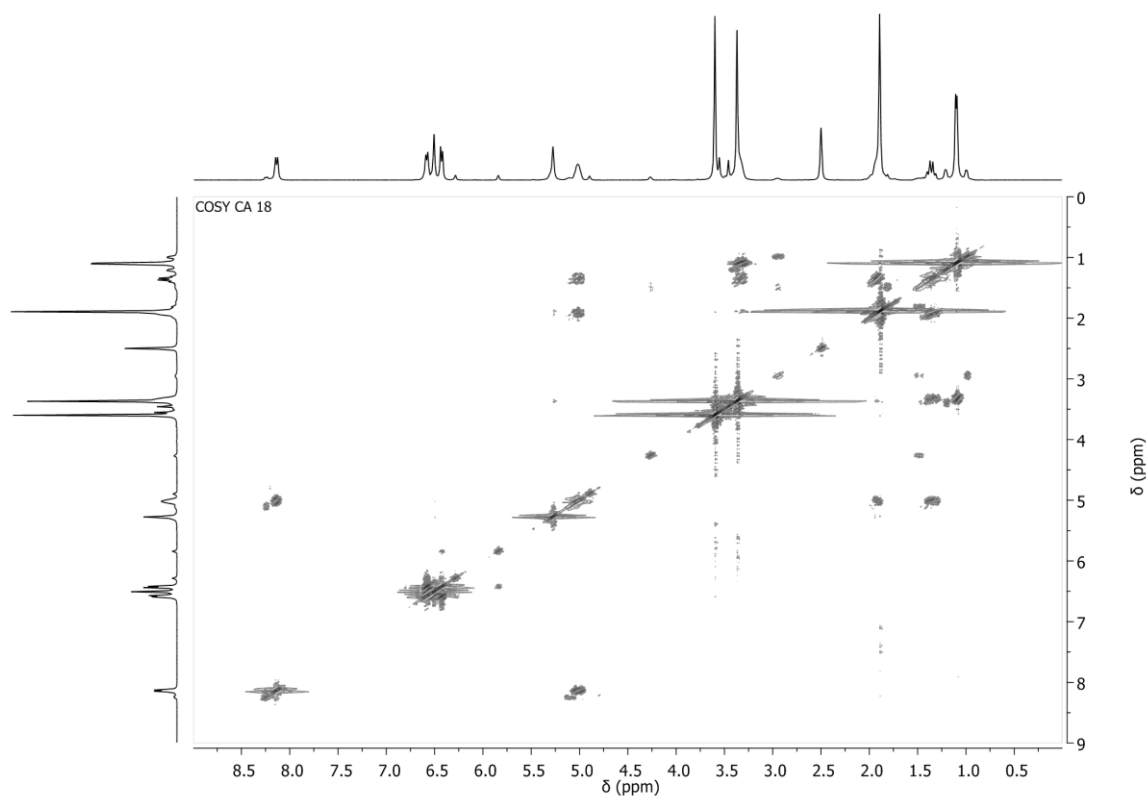
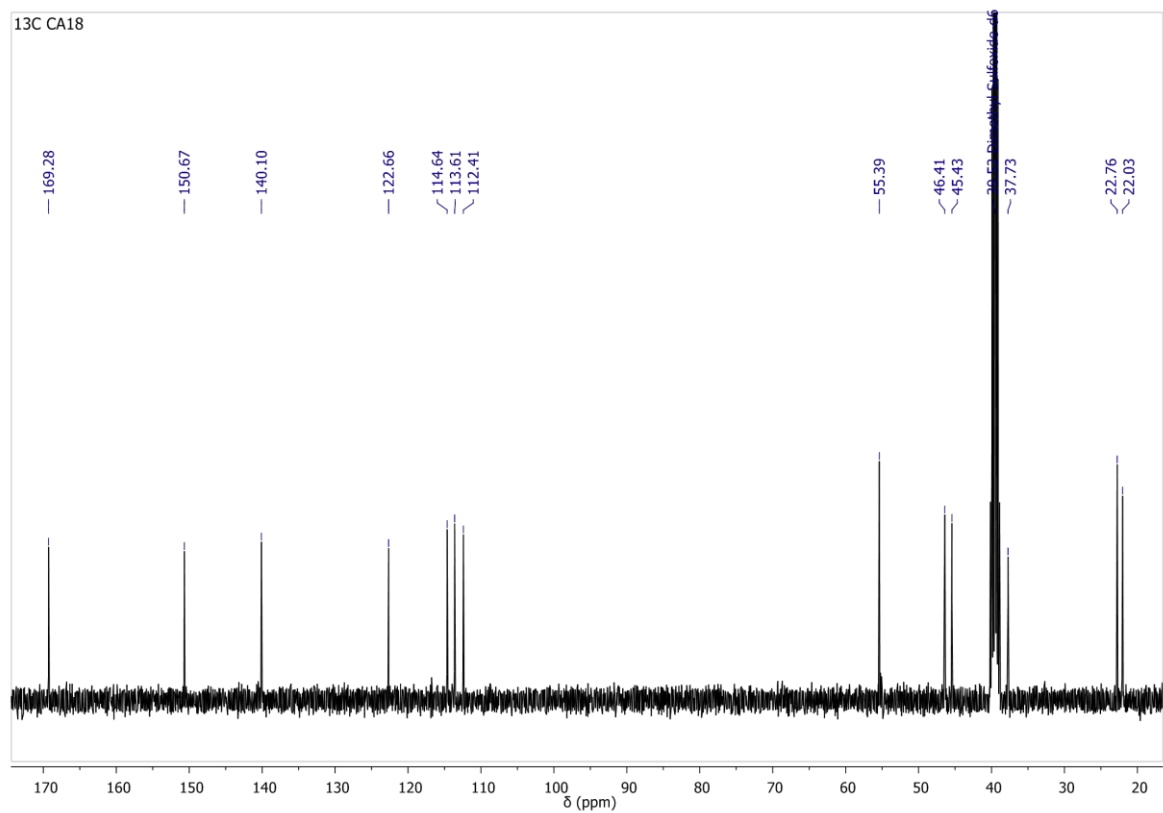


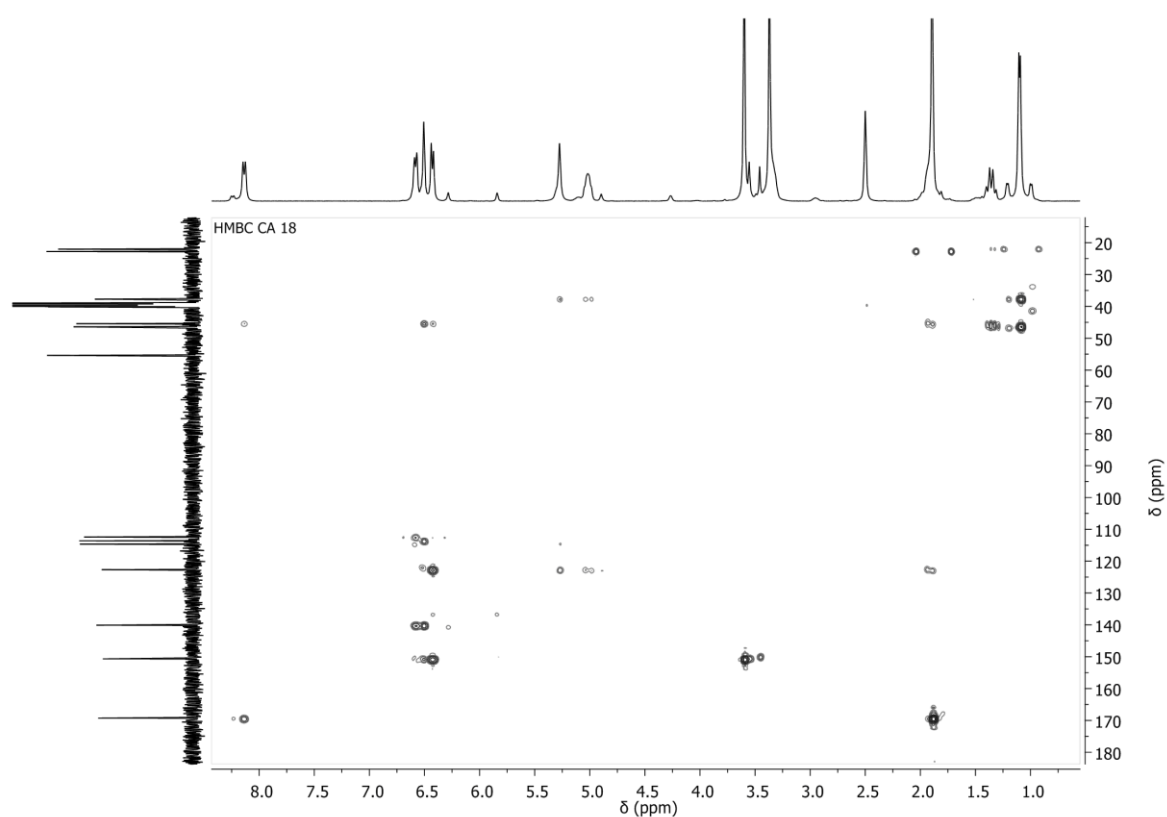
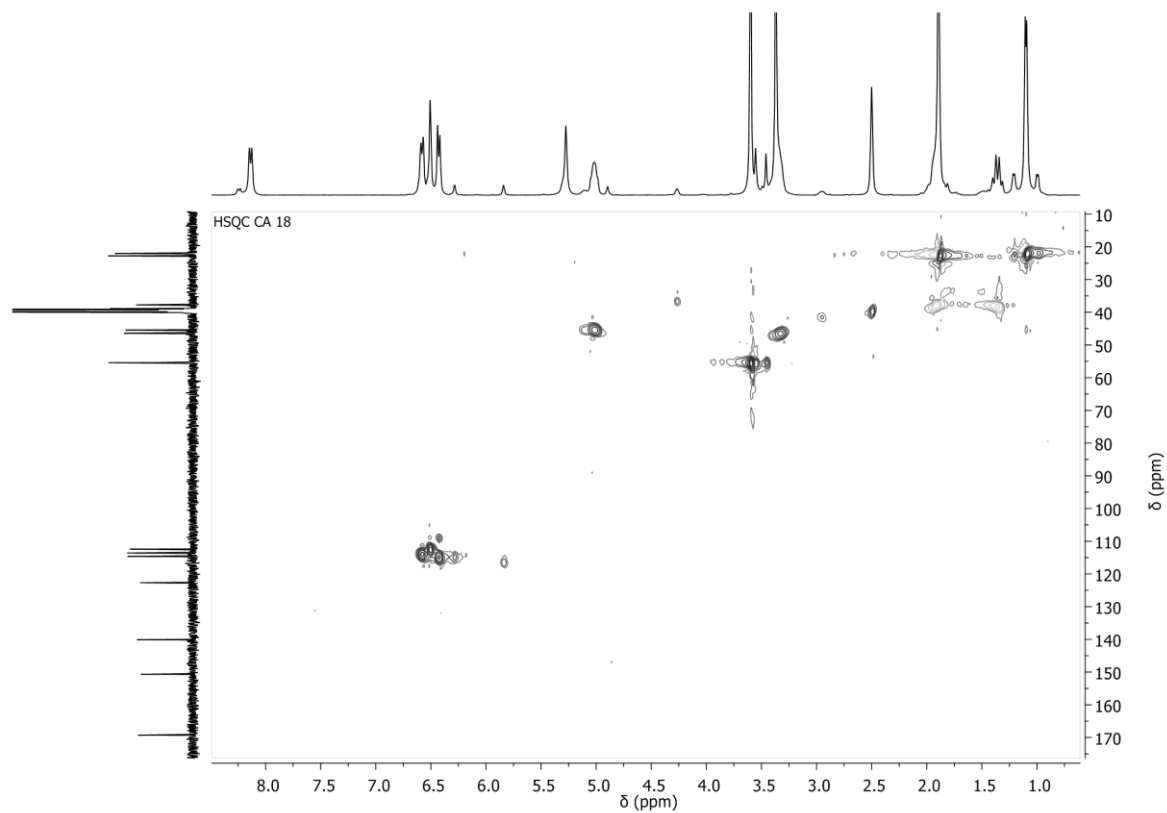




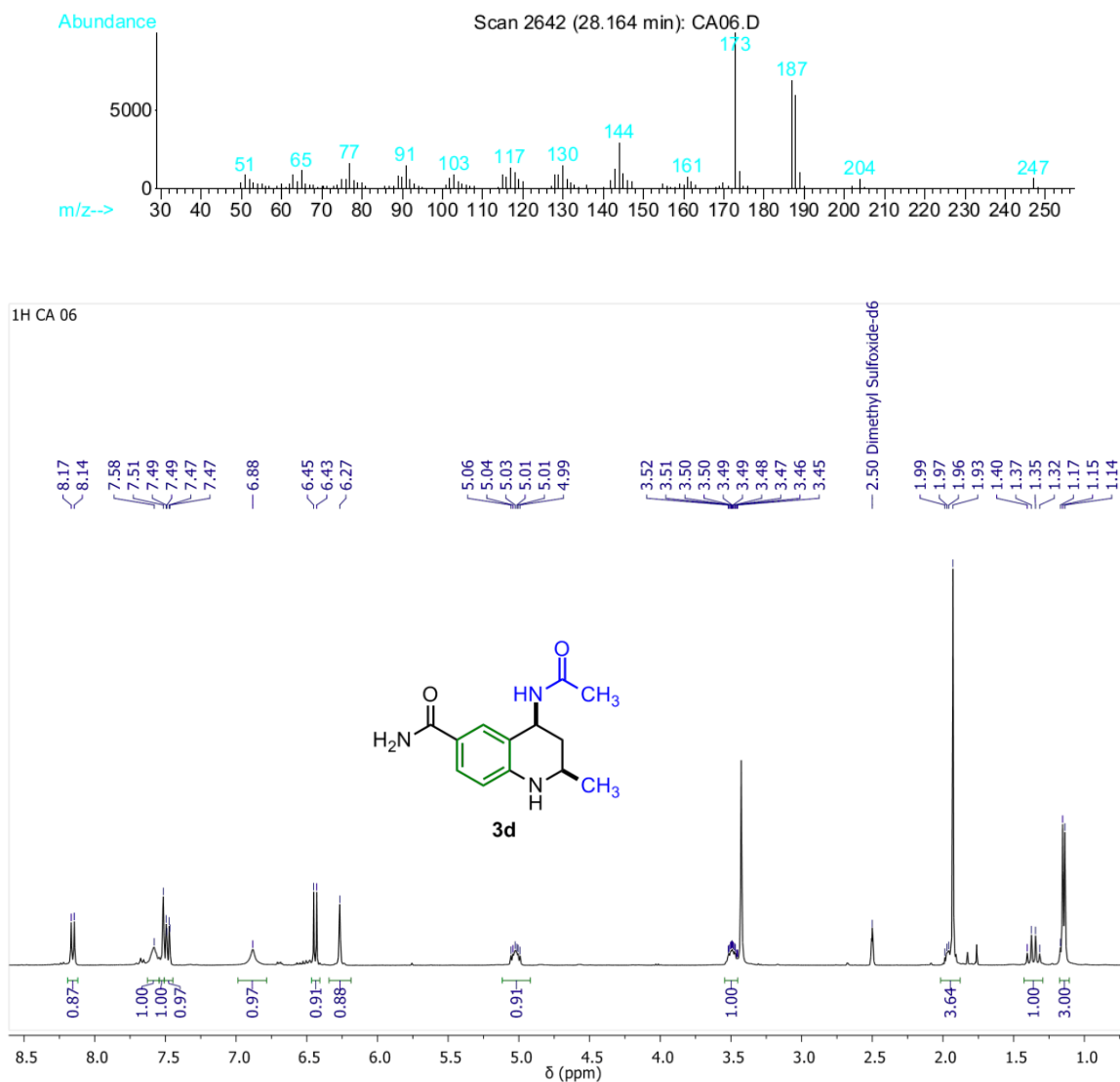
N-(6-Methoxy-2-methyl-1,2,3,4-tetrahydroquinolin-4-yl) acetamide, **3c**.

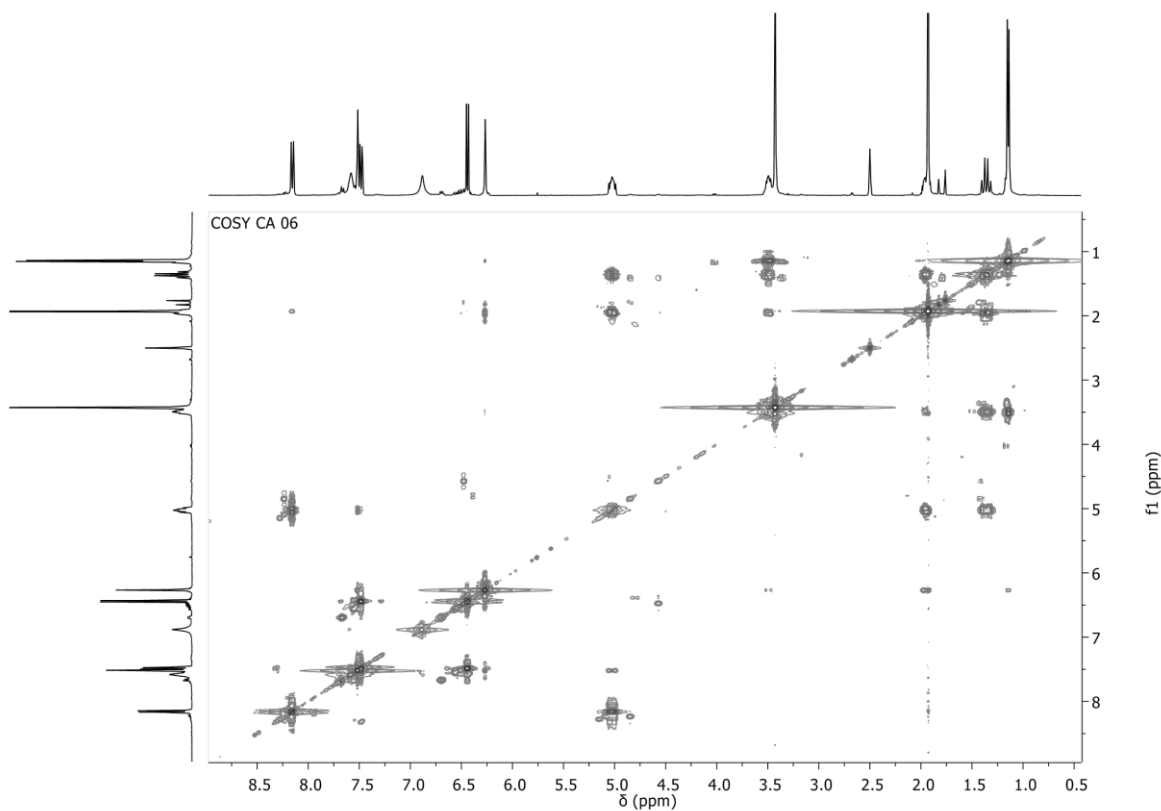
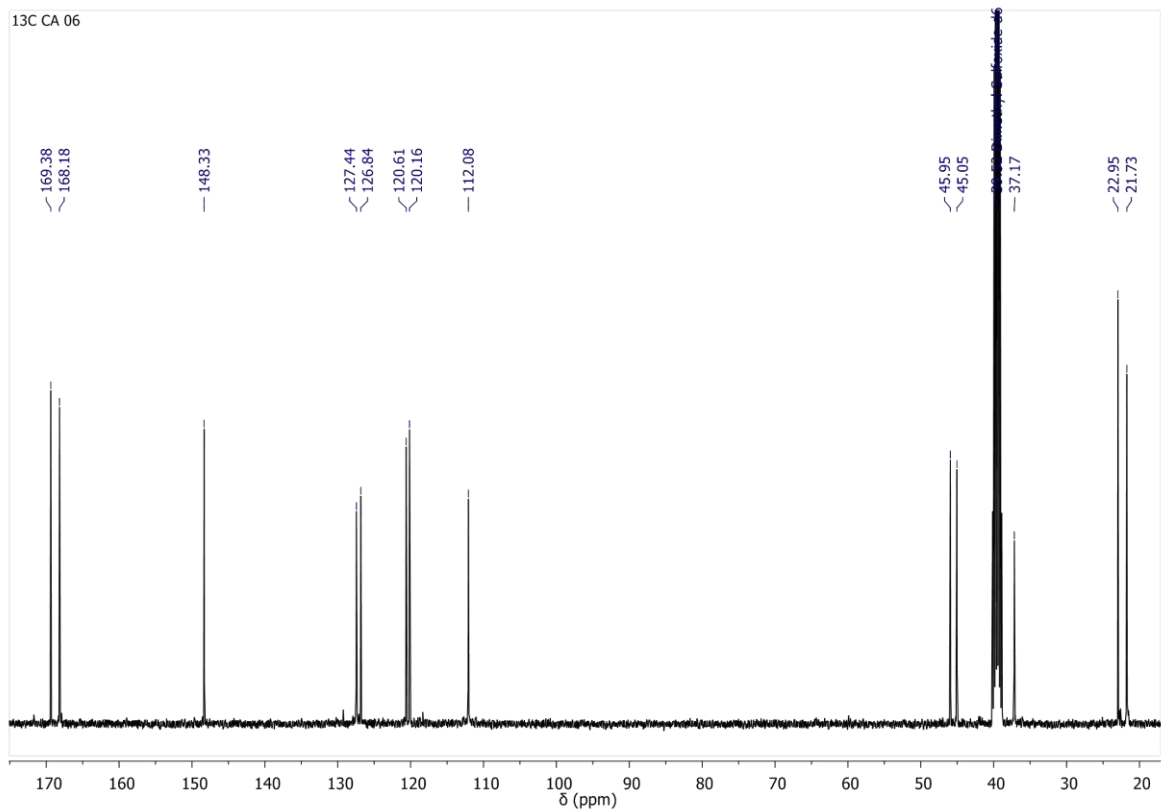


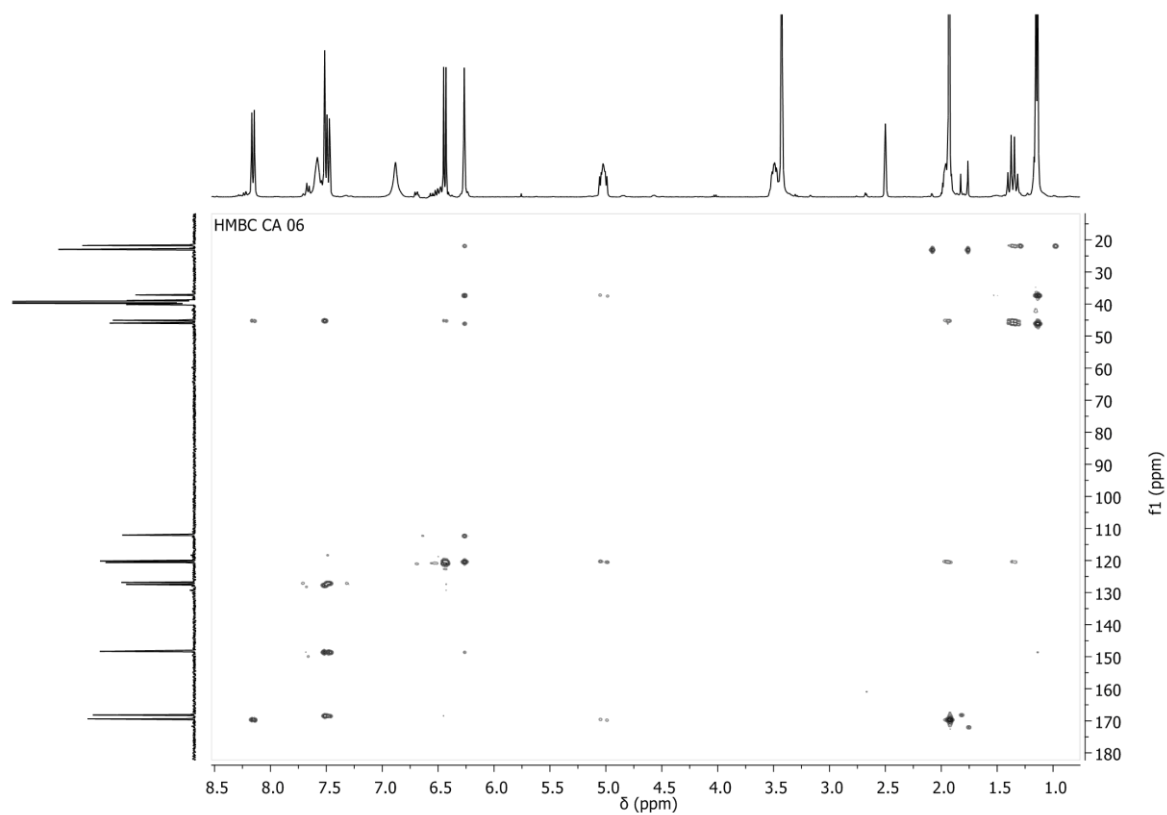
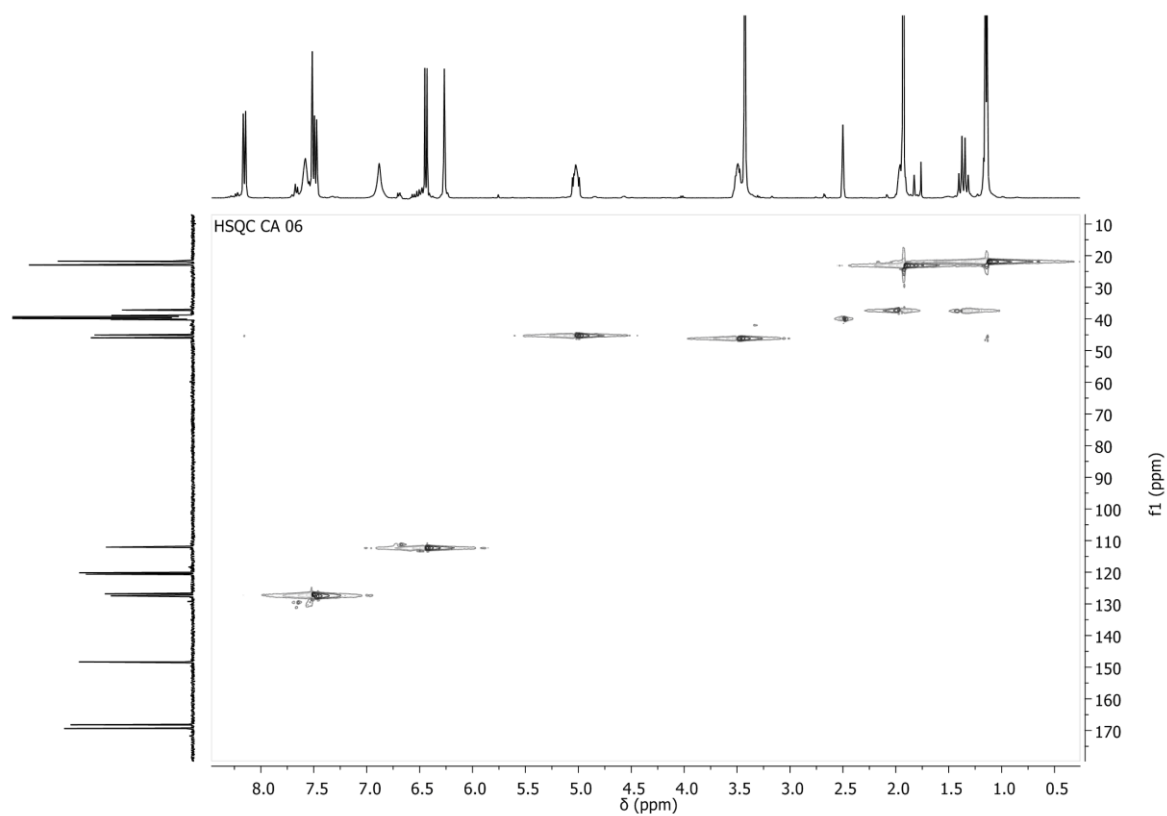




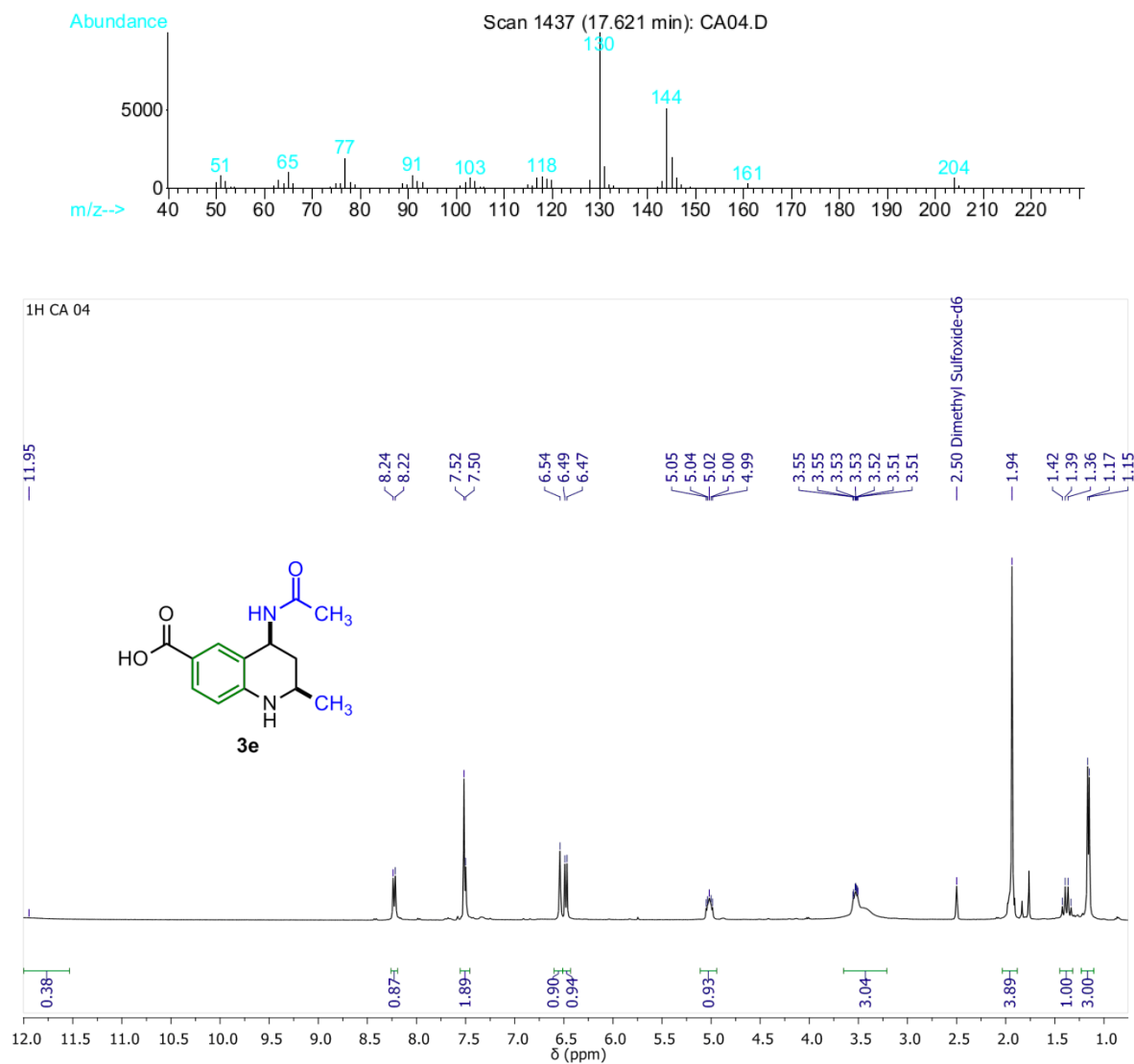
4-Acetamido-2-methyl-1,2,3,4-tetrahydroquinoline-6-carboxamide, **3d**.

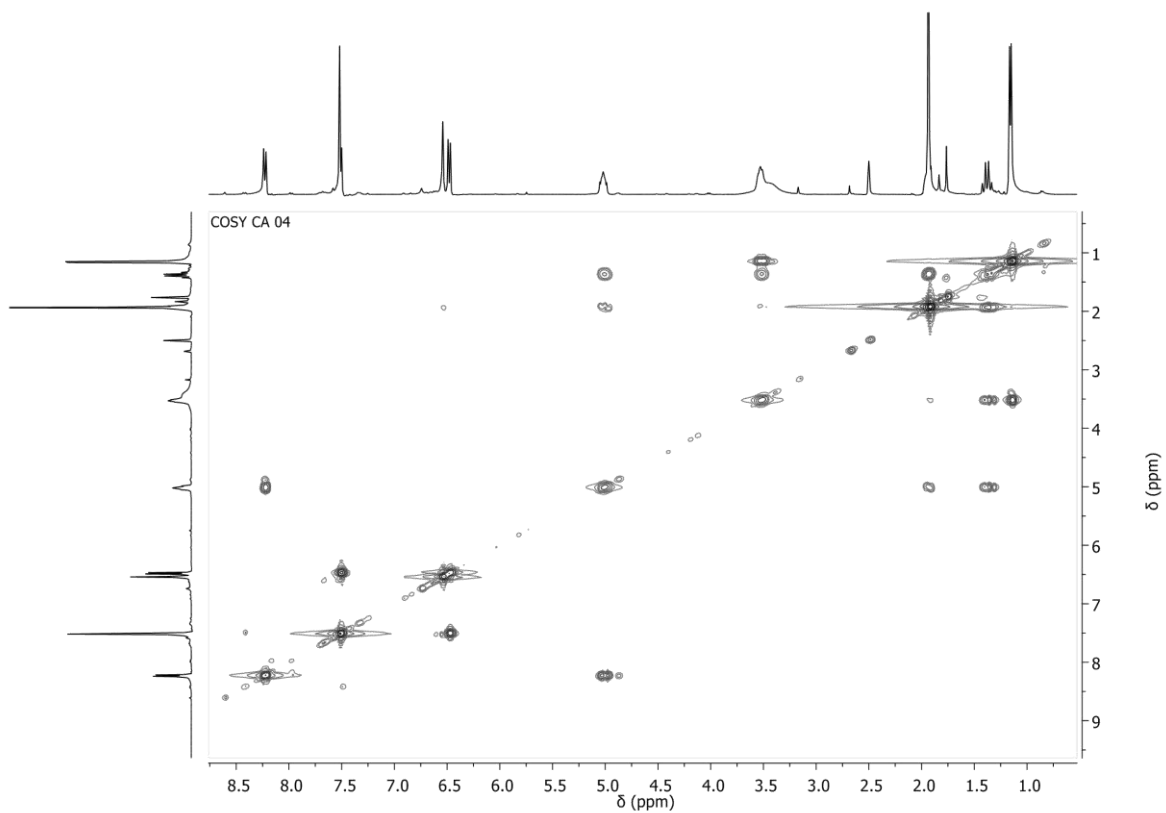
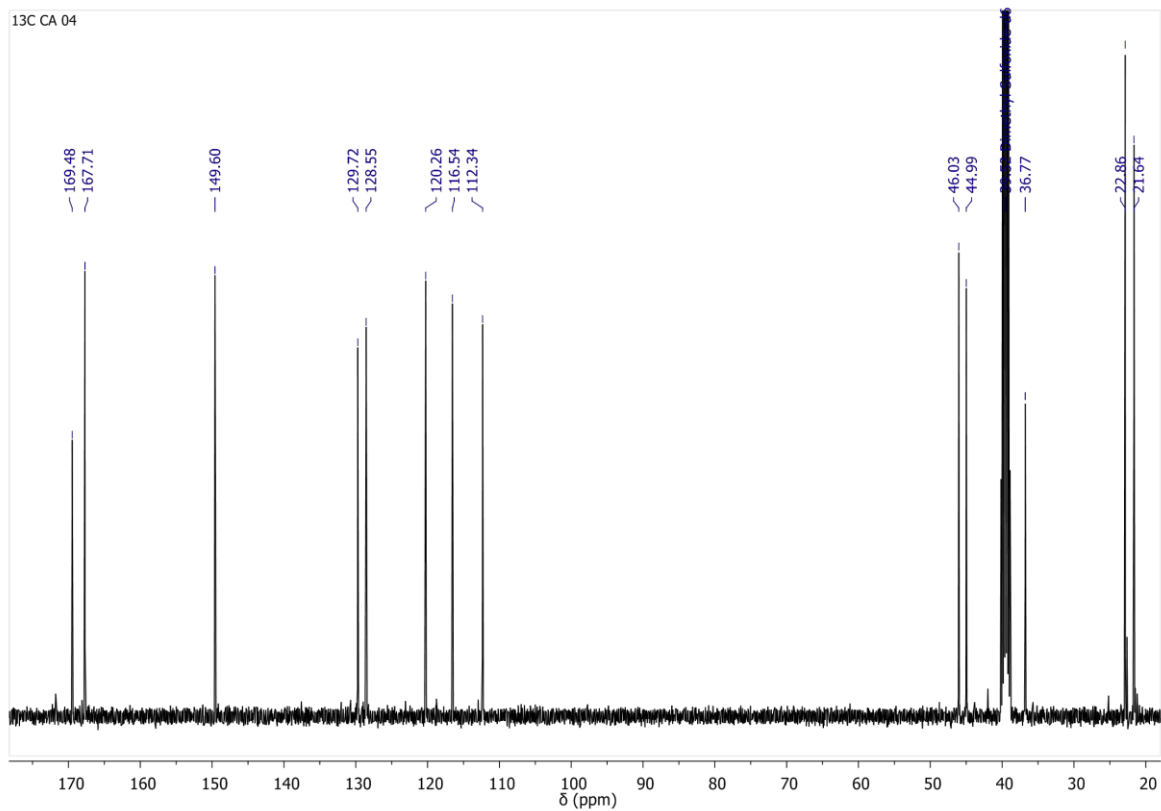


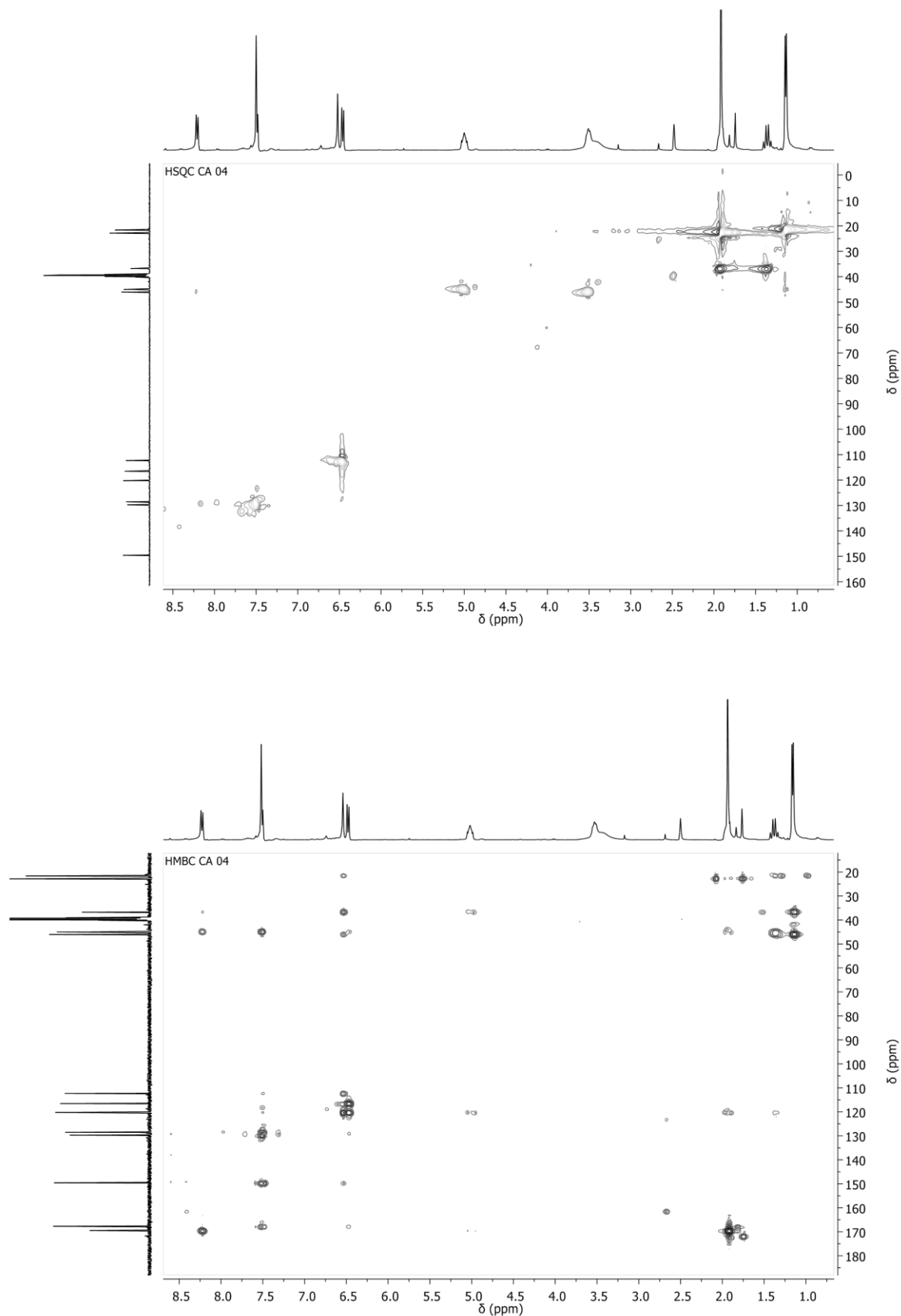




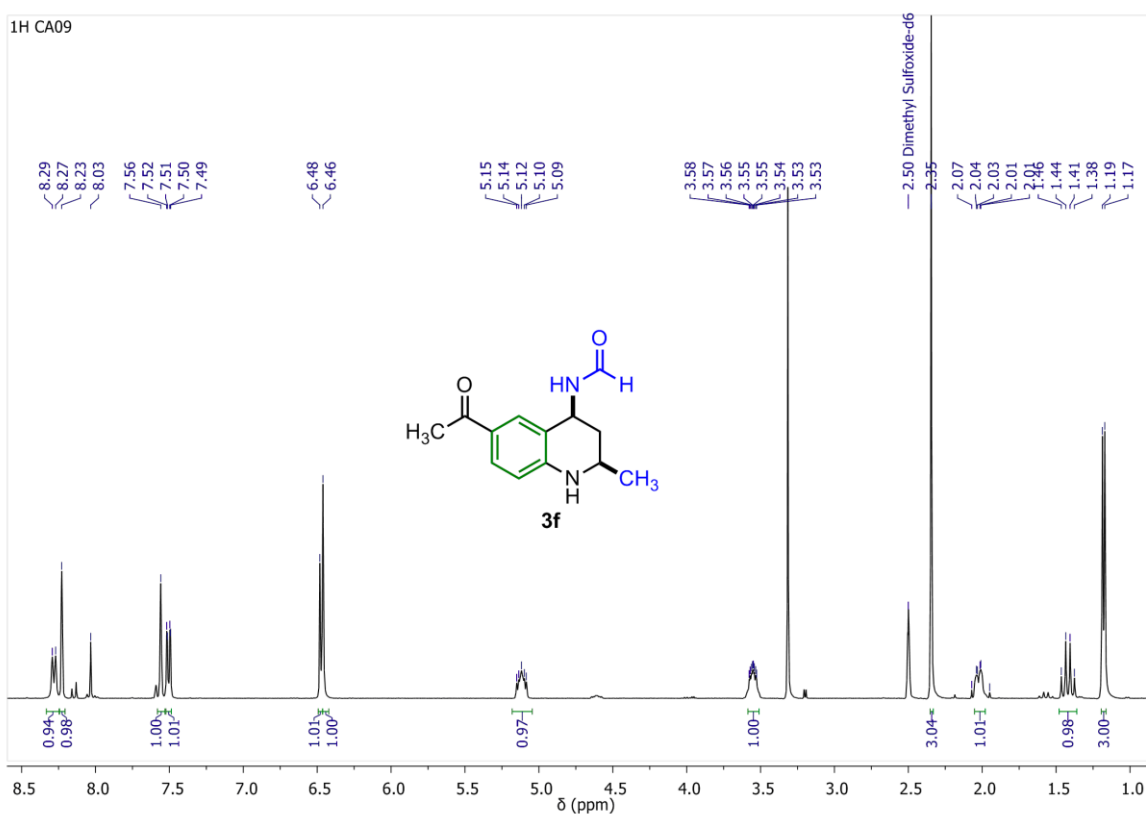
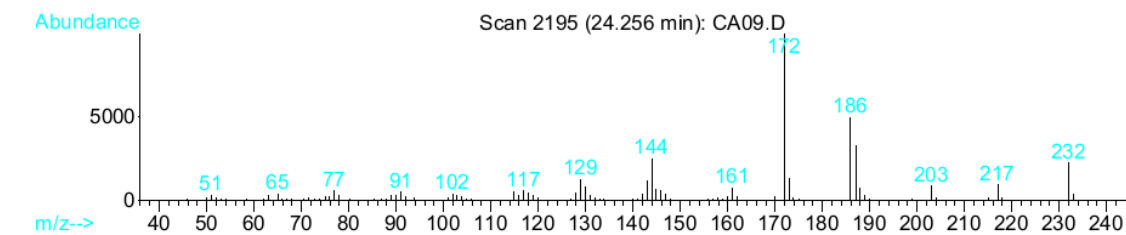
4-Acetamido-2-methyl-1,2,3,4-tetrahydroquinoline-6-carboxylic acid, **3e**.

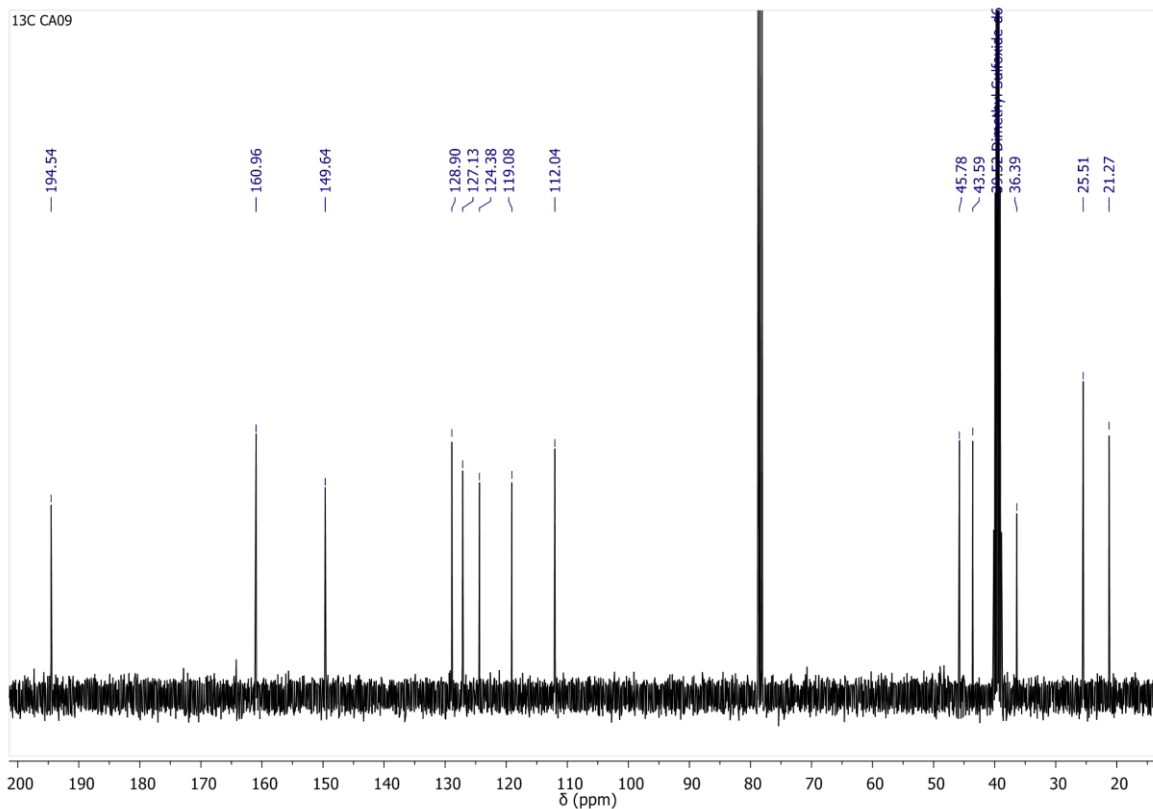




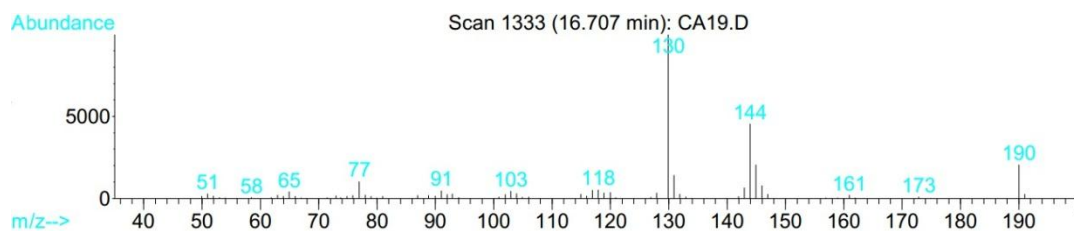


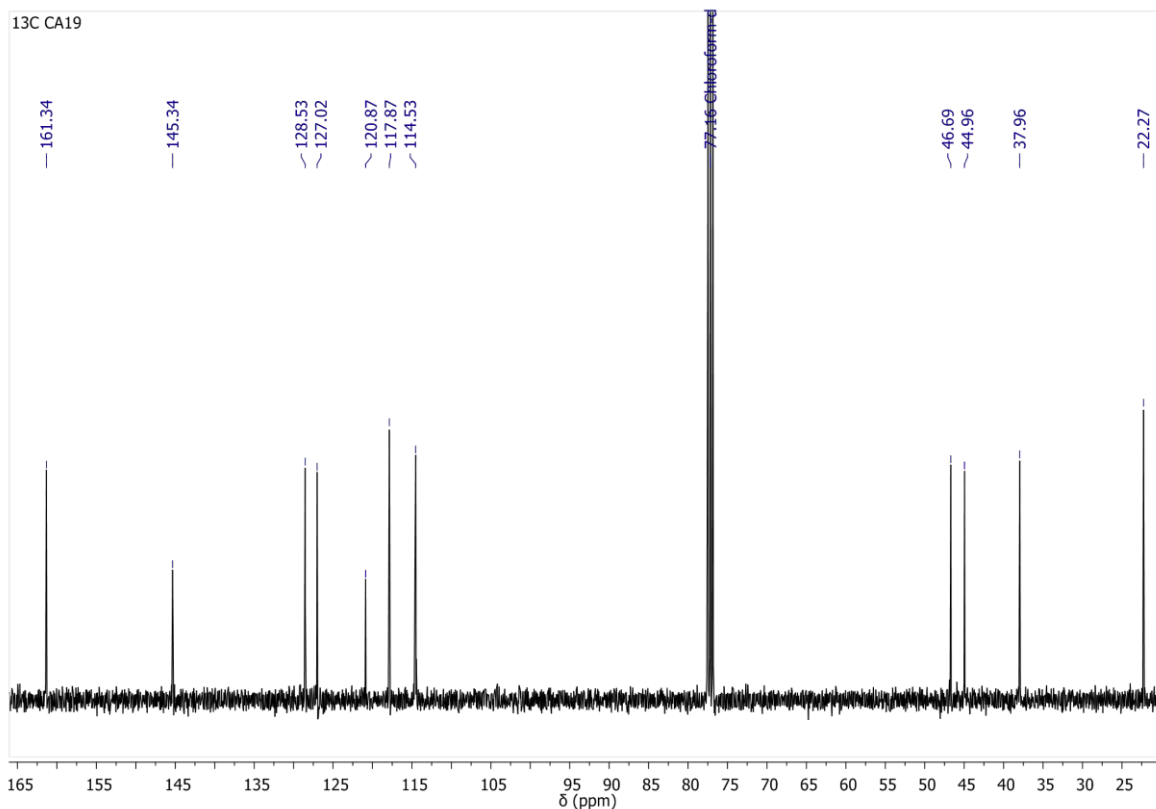
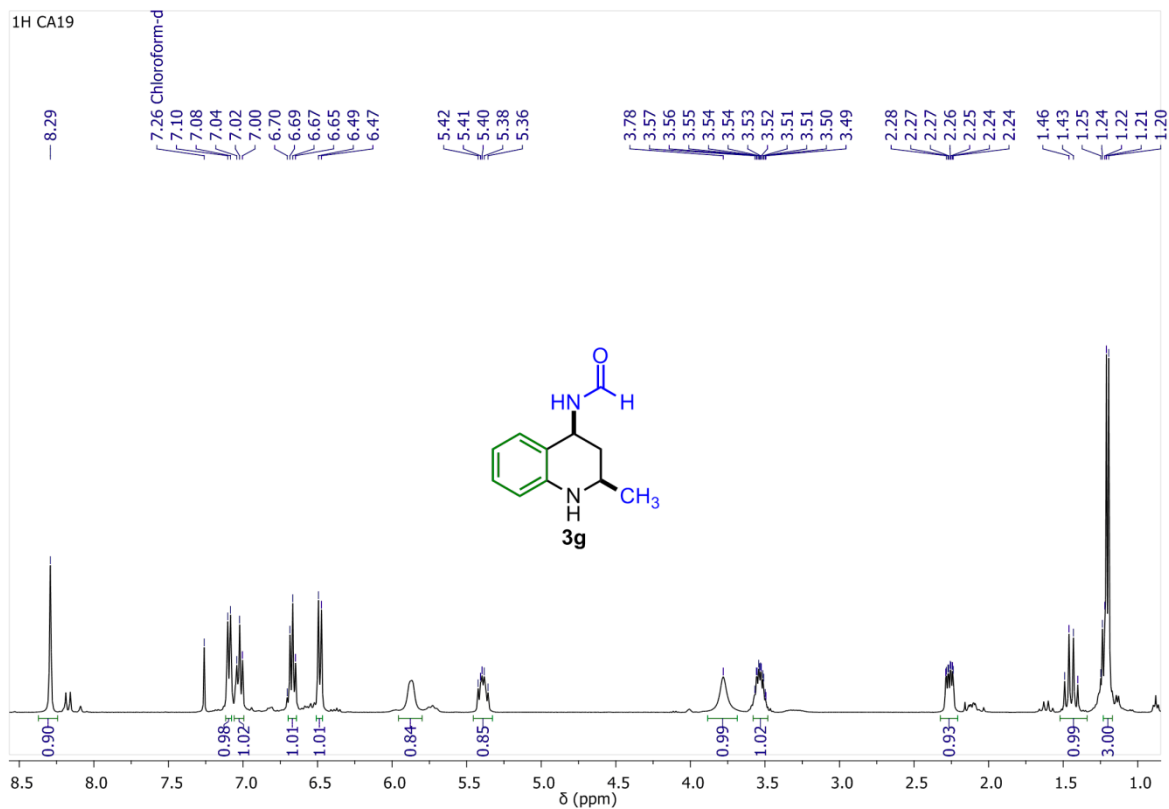
N-(6-Acetyl-2-methyl-1,2,3,4-tetrahydroquinolin-4-yl) formamide, **3f**.



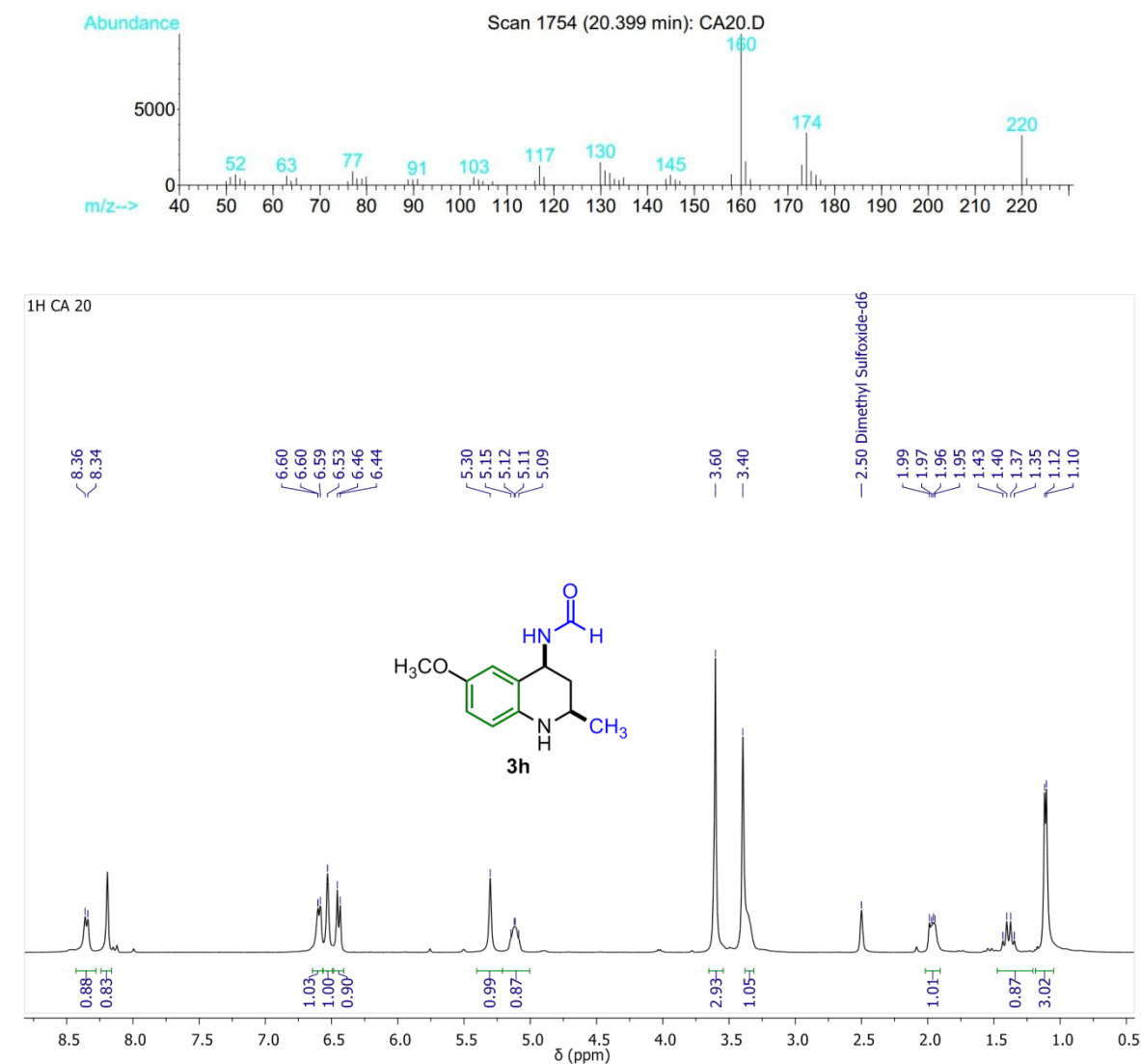


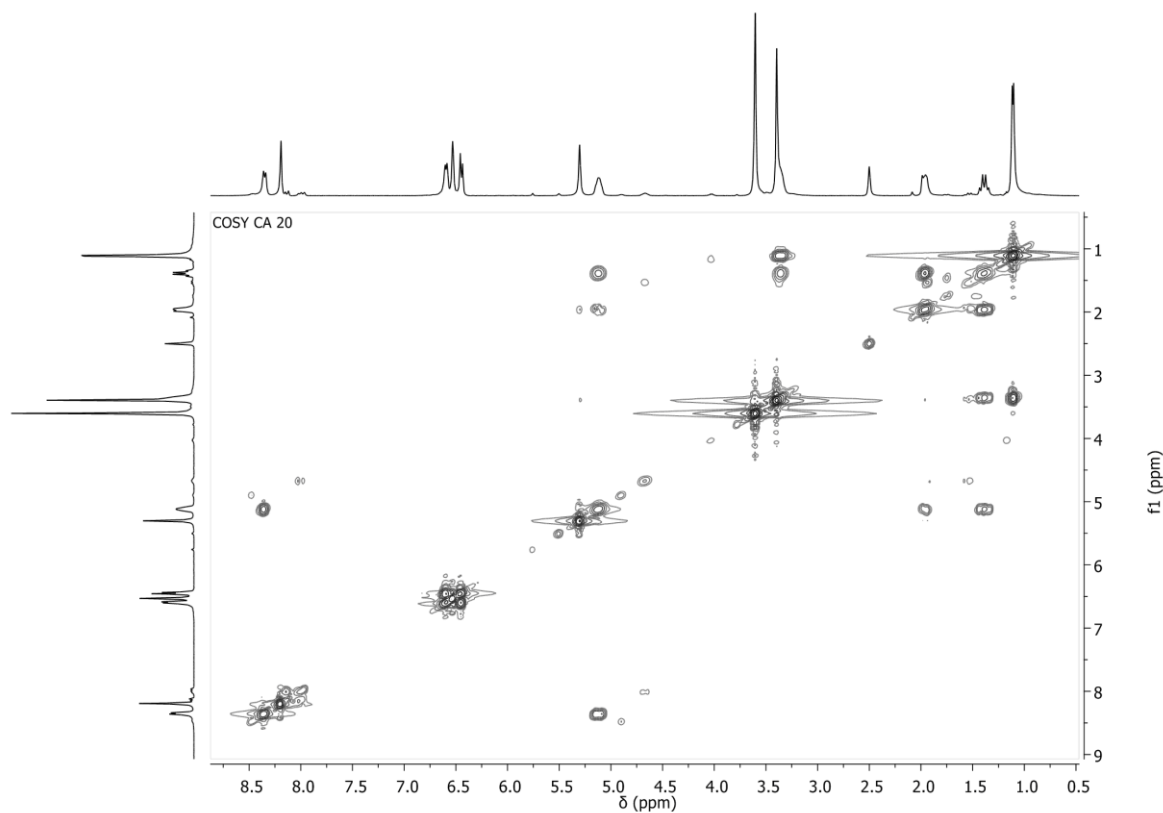
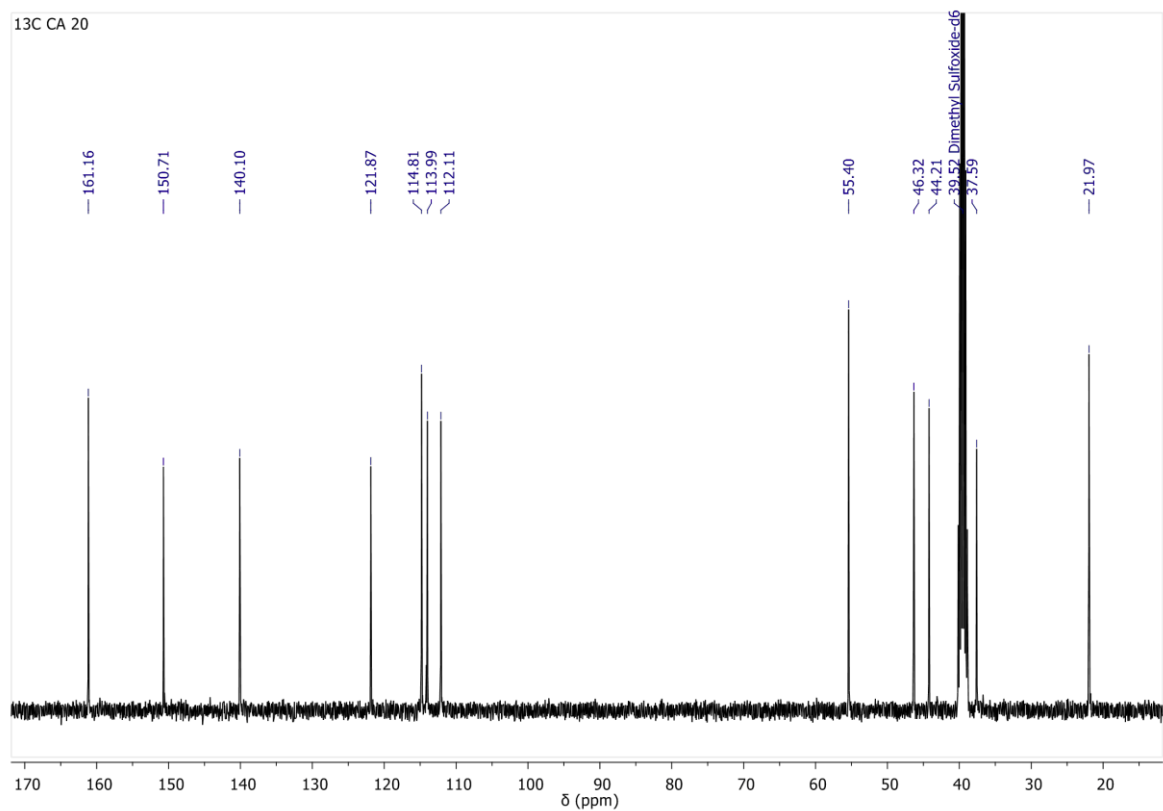
N-(2-Methyl-1,2,3,4-tetrahydroquinolin-4-yl) formamide, **3g**.

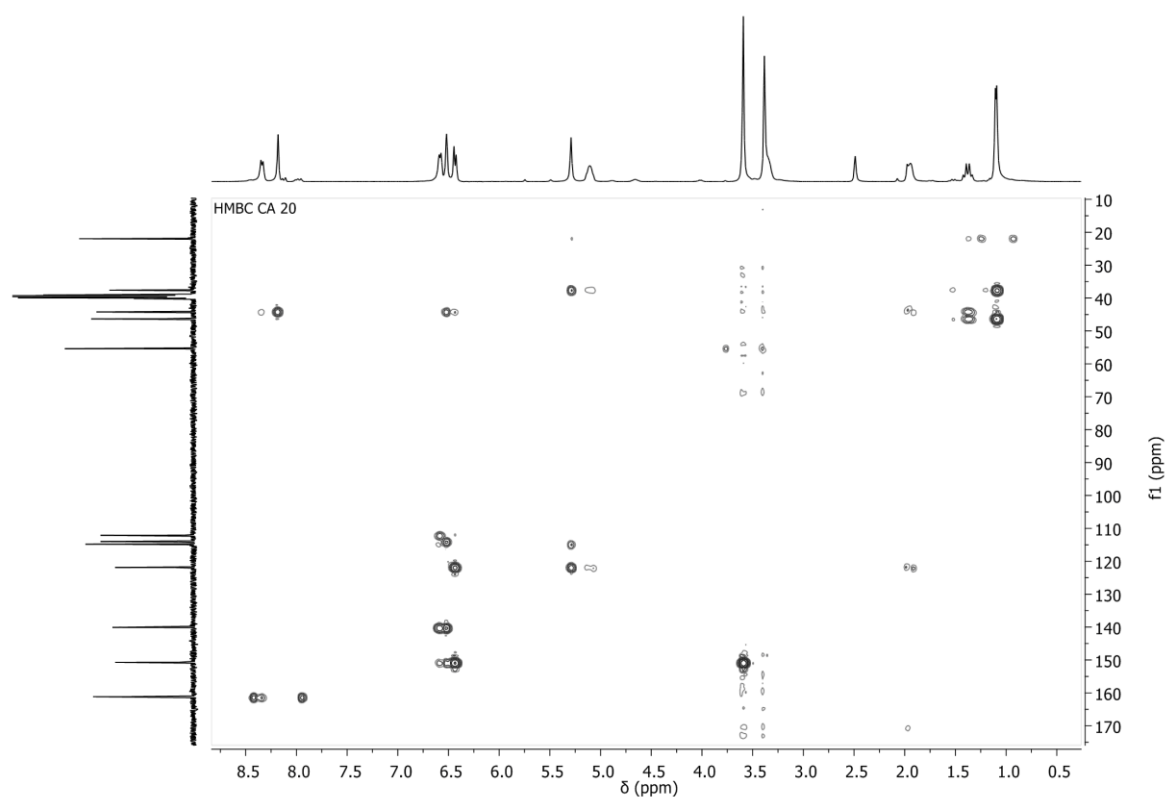
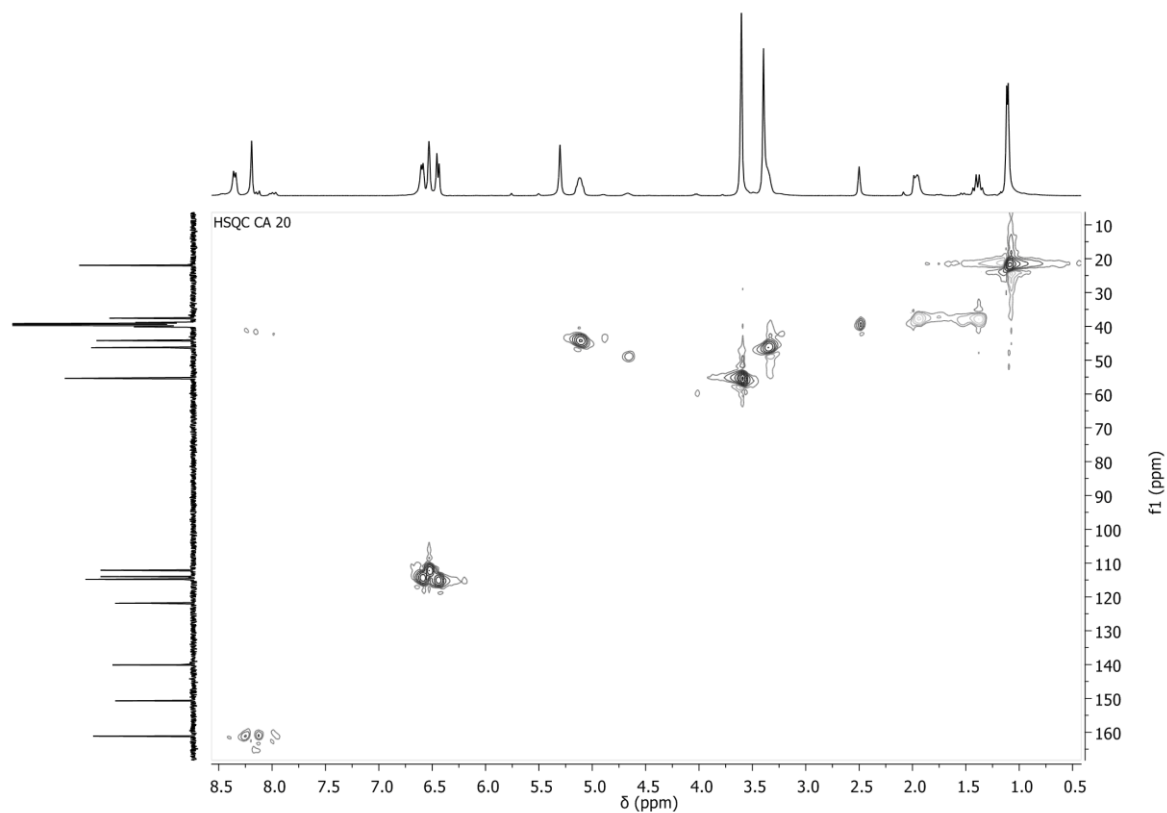




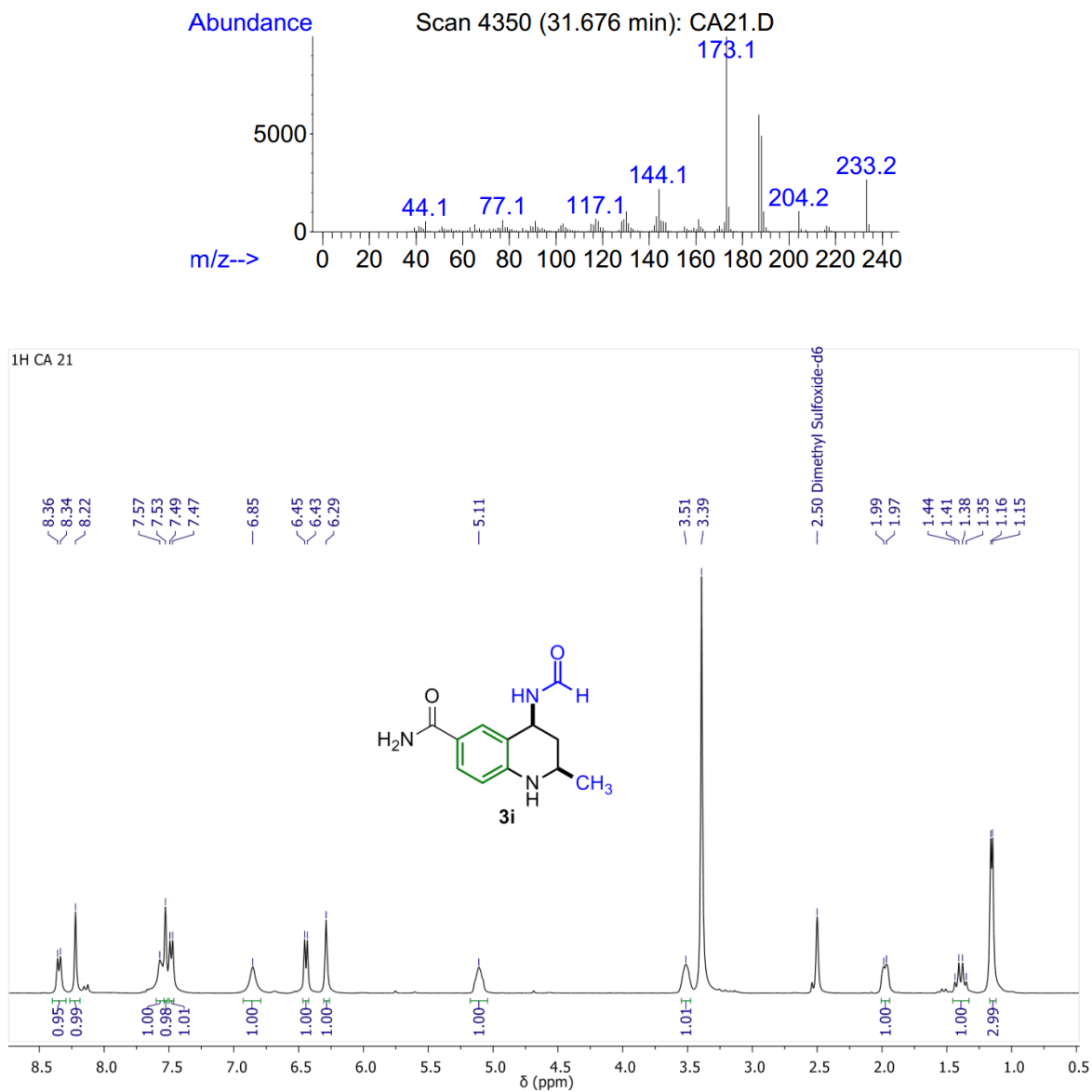
N-(6-Methoxy-2-methyl-1,2,3,4-tetrahydroquinolin-4-yl) formamide, **3h**.

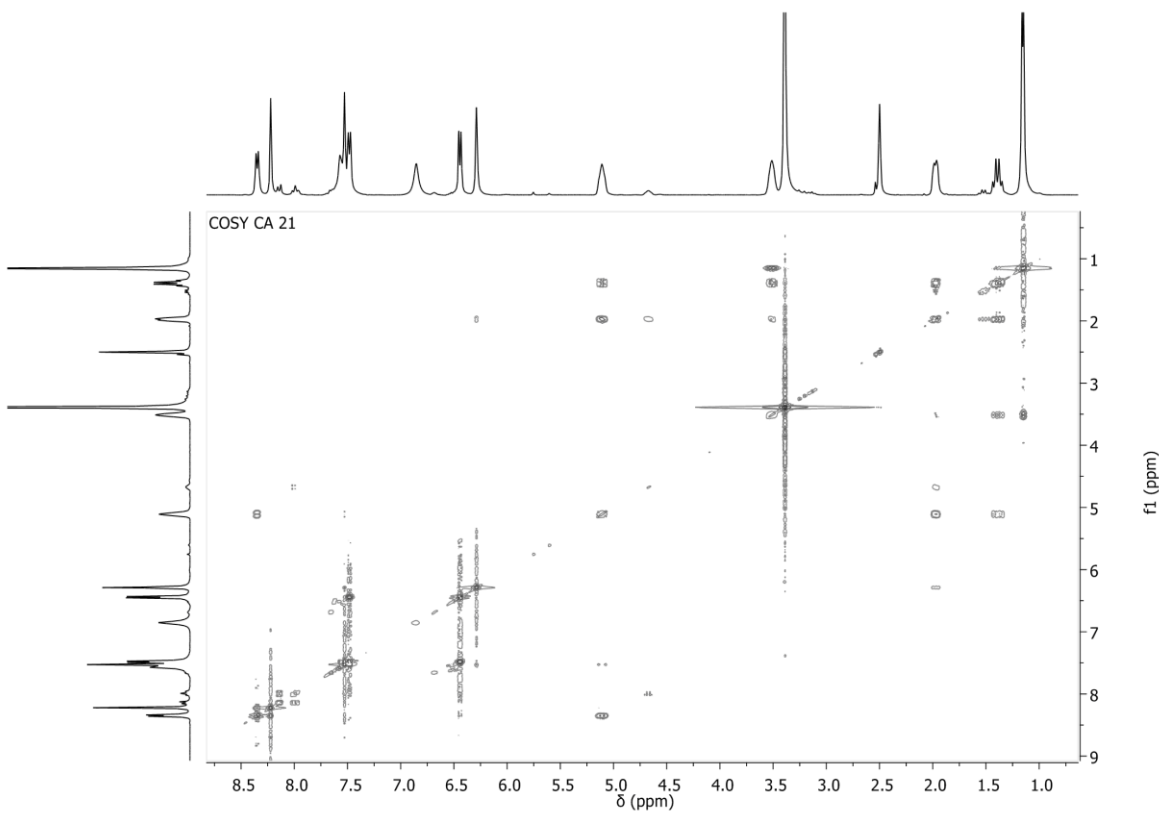
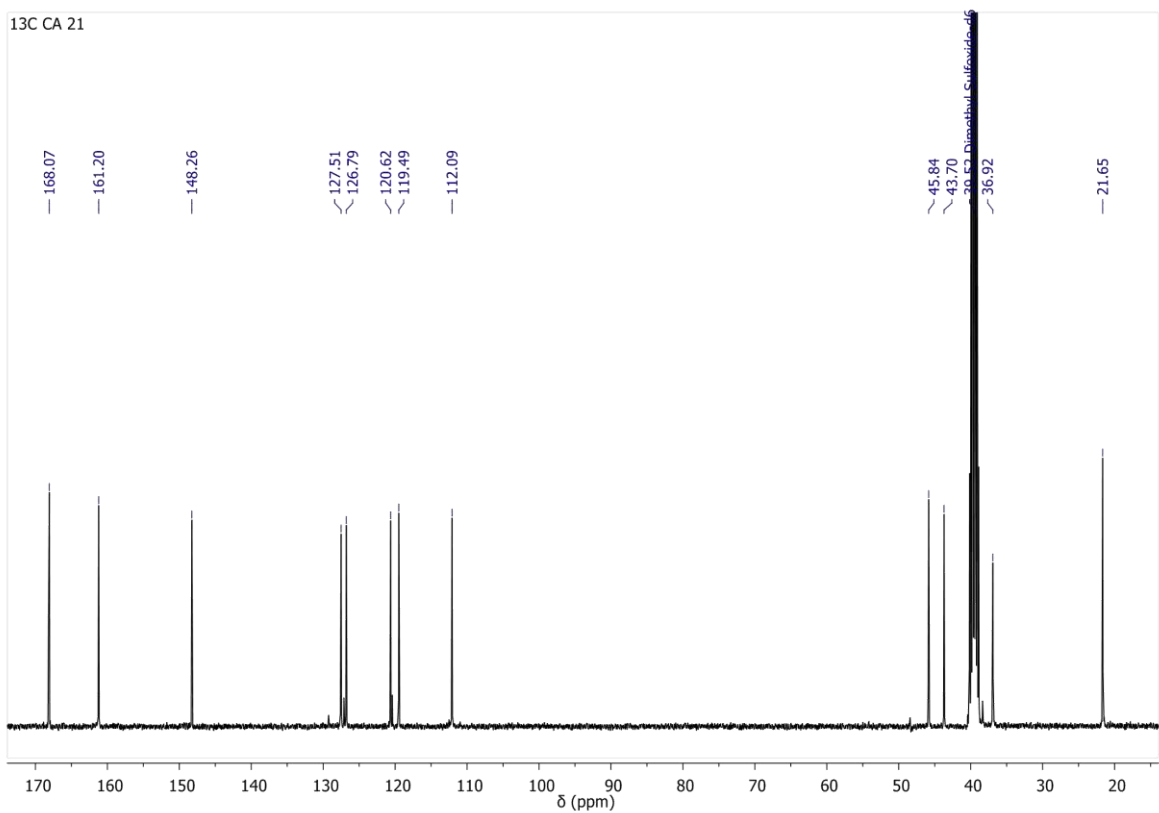


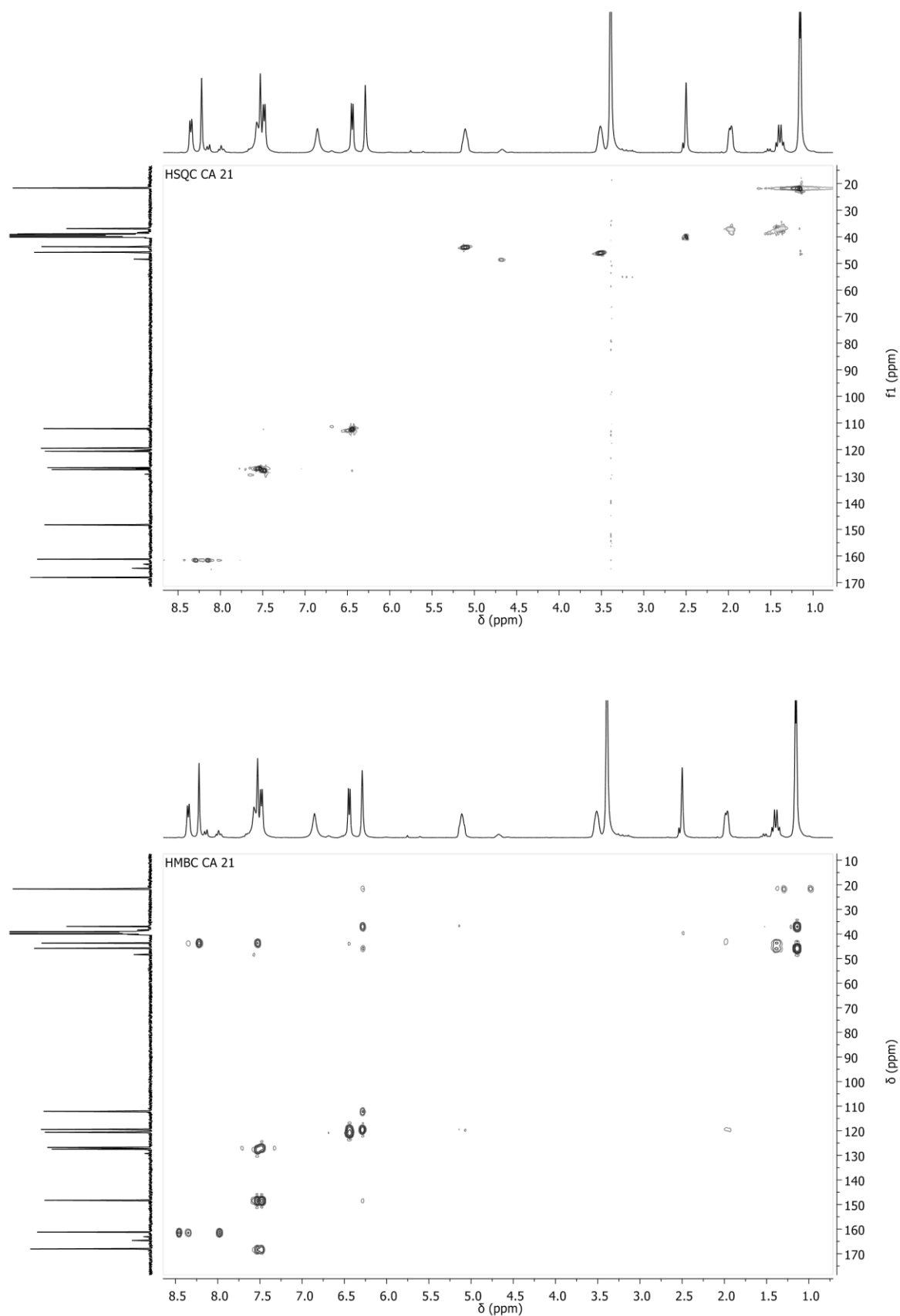




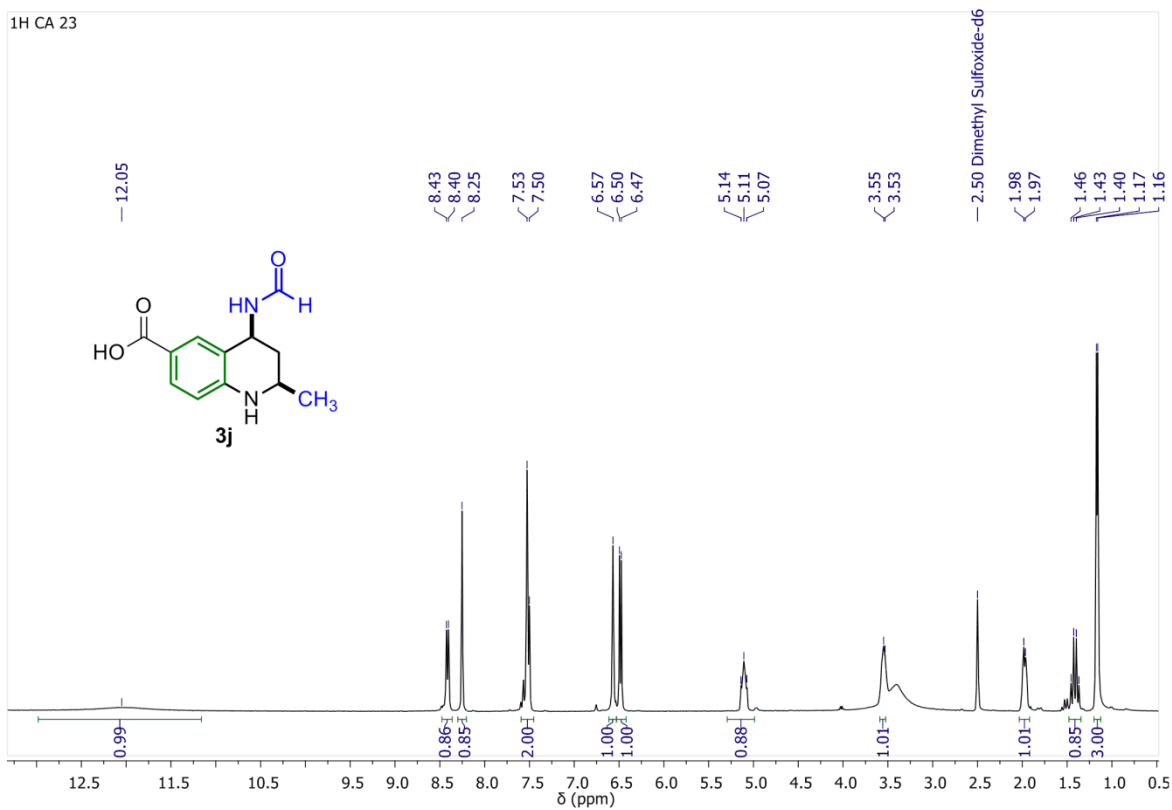
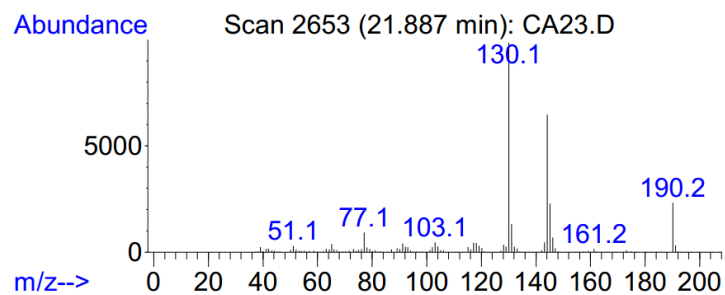
4-Formamido-2-methyl-1,2,3,4-tetrahydroquinoline-6-carboxamide, **3i**.

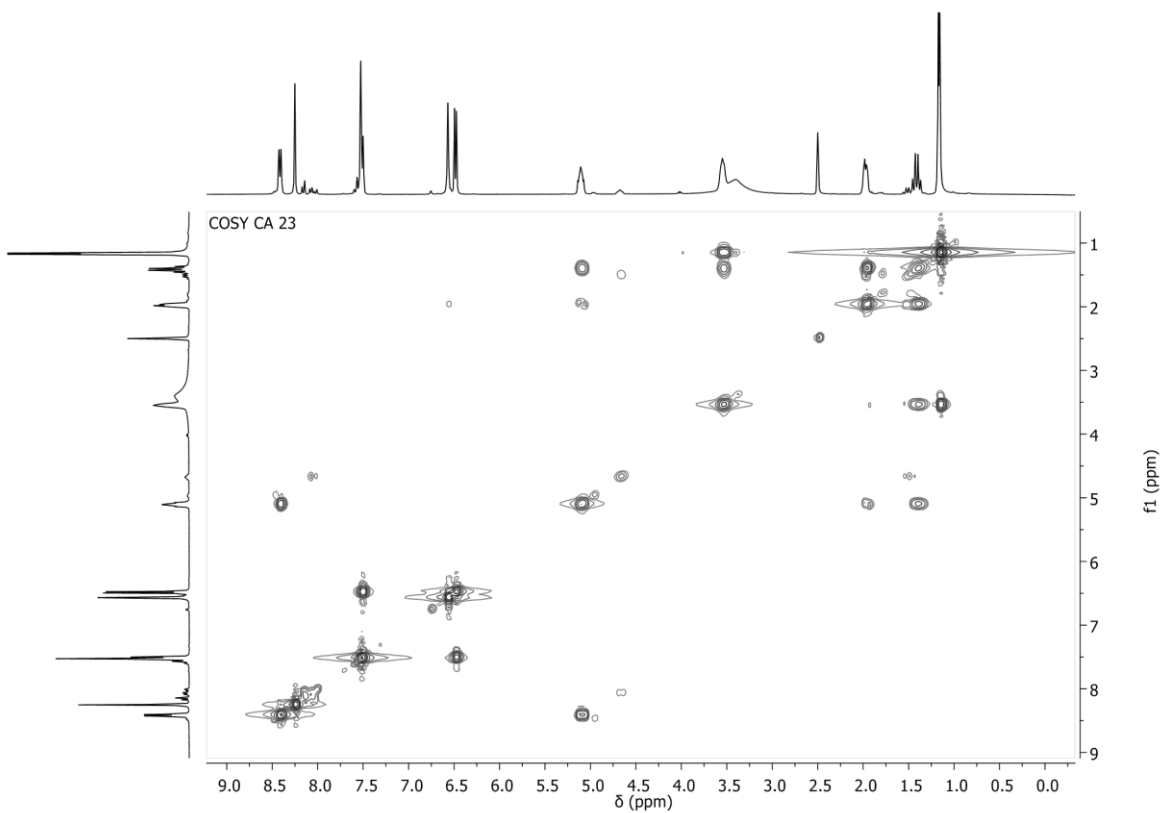
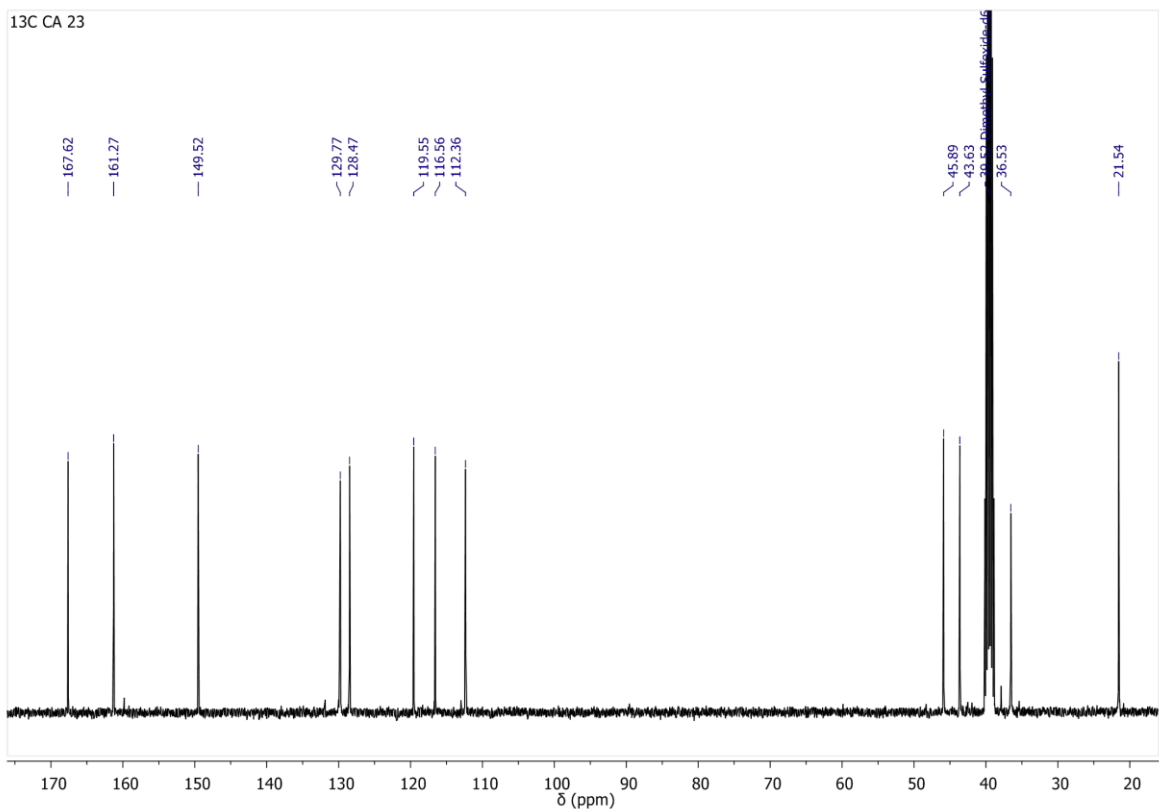


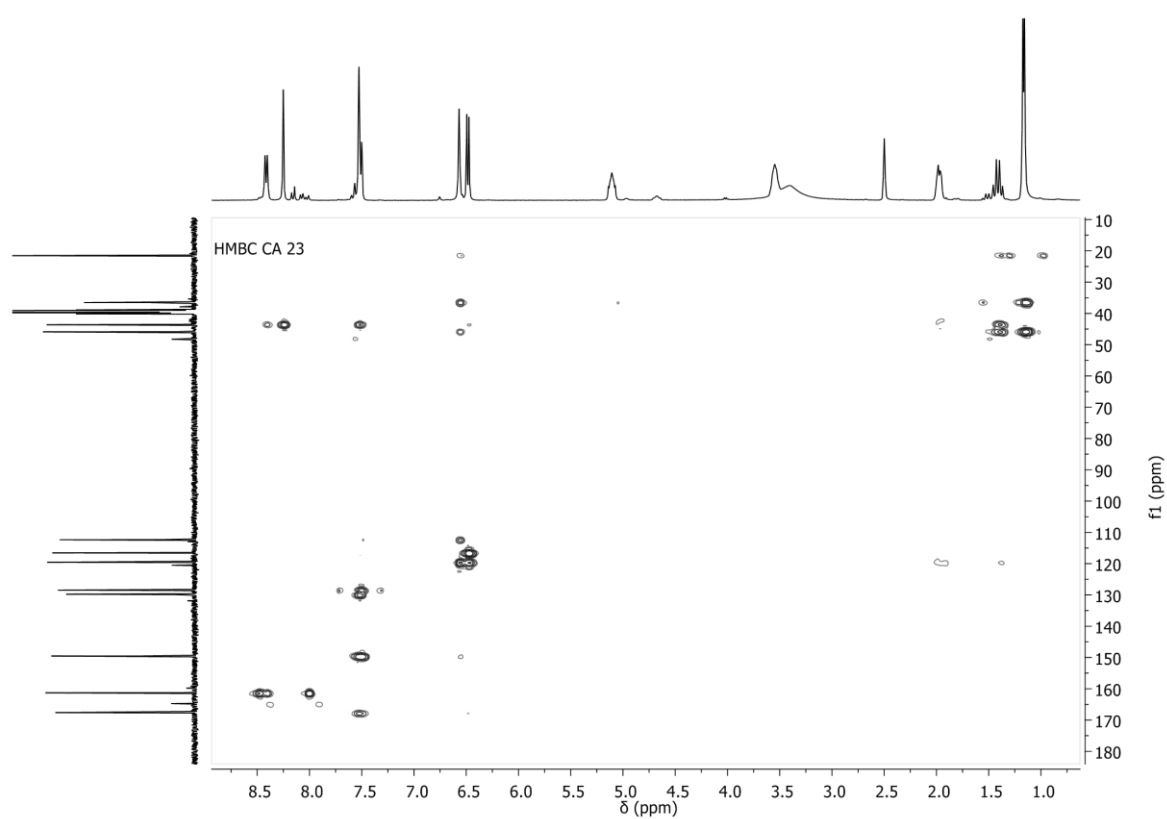
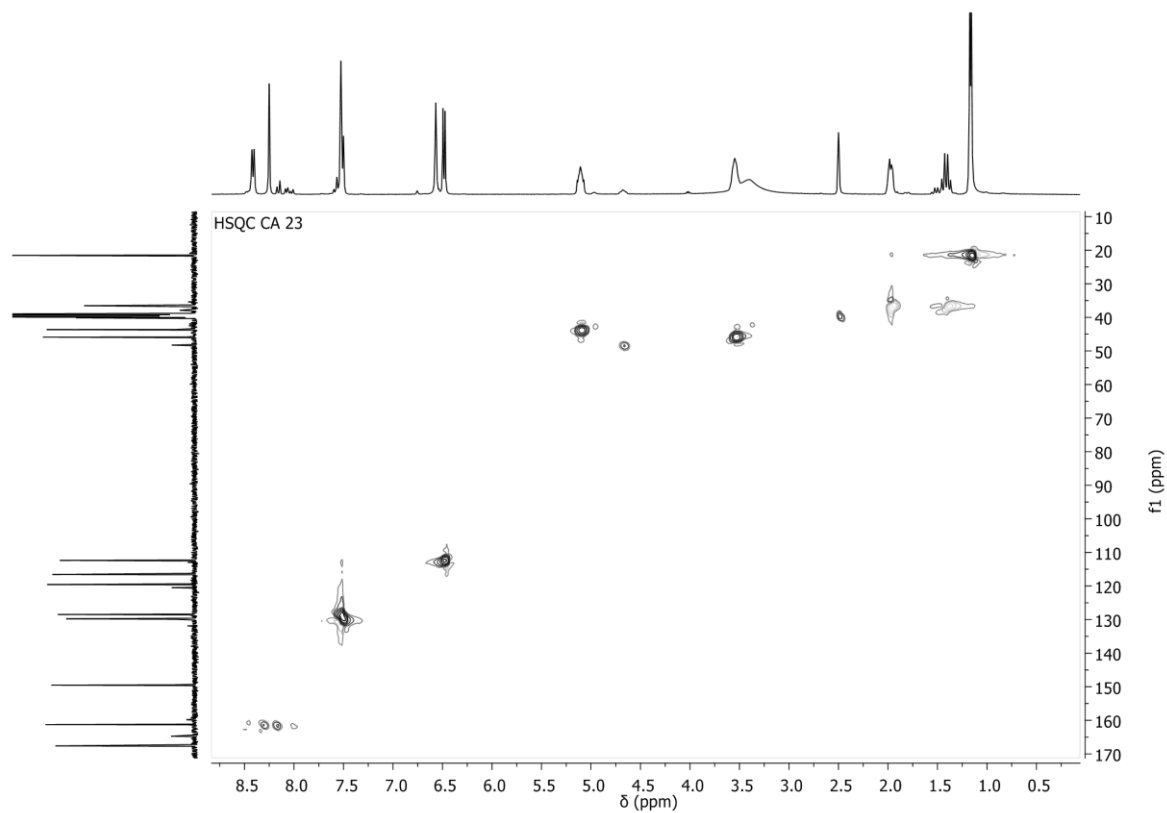




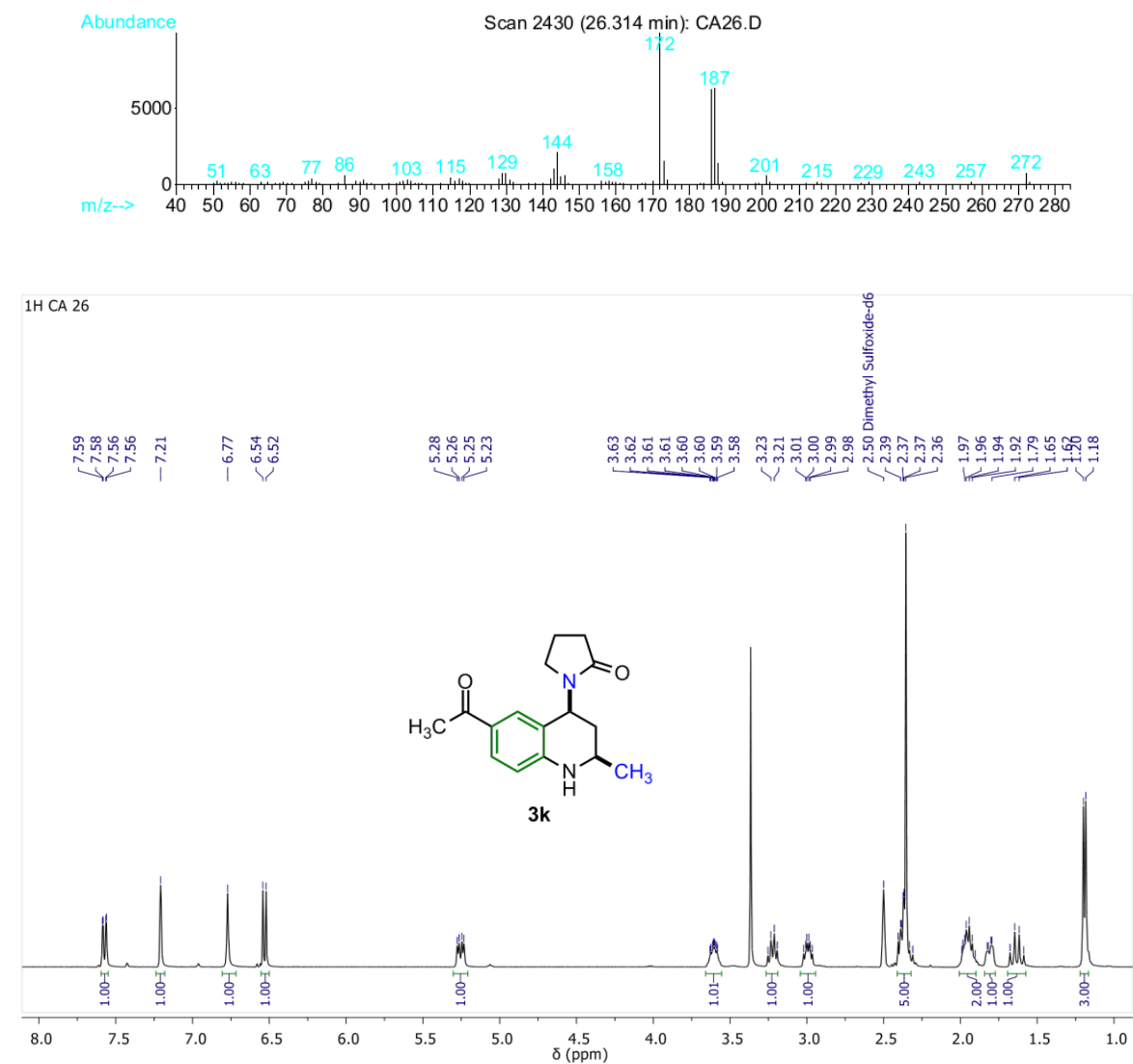
4-Formamido-2-methyl-1,2,3,4-tetrahydroquinoline-6-carboxylic acid, **3j**.

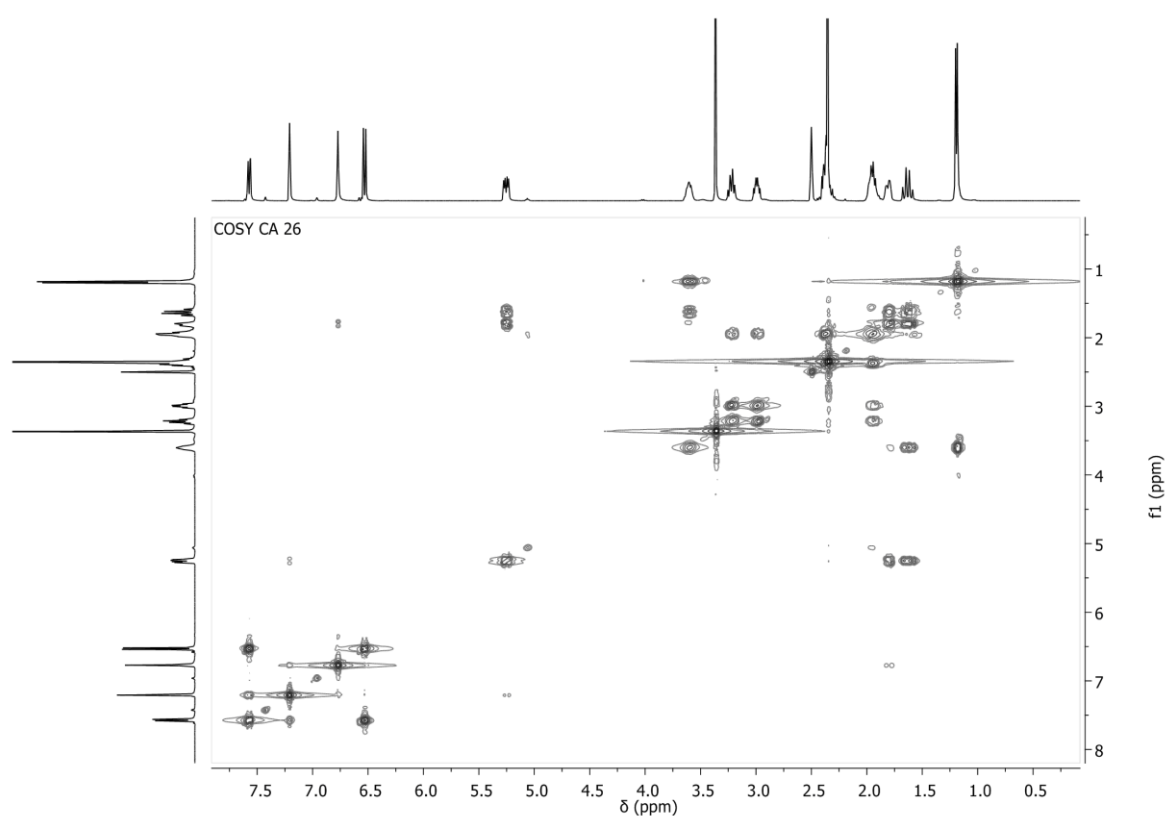
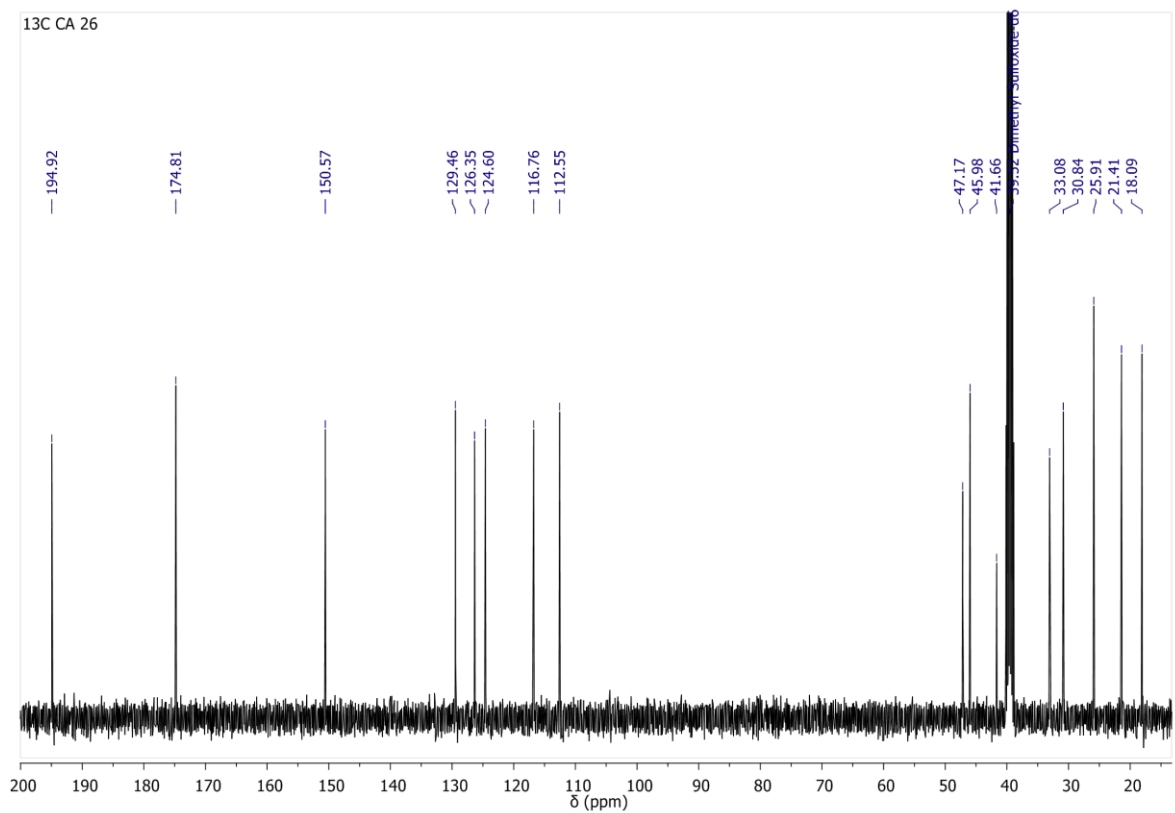


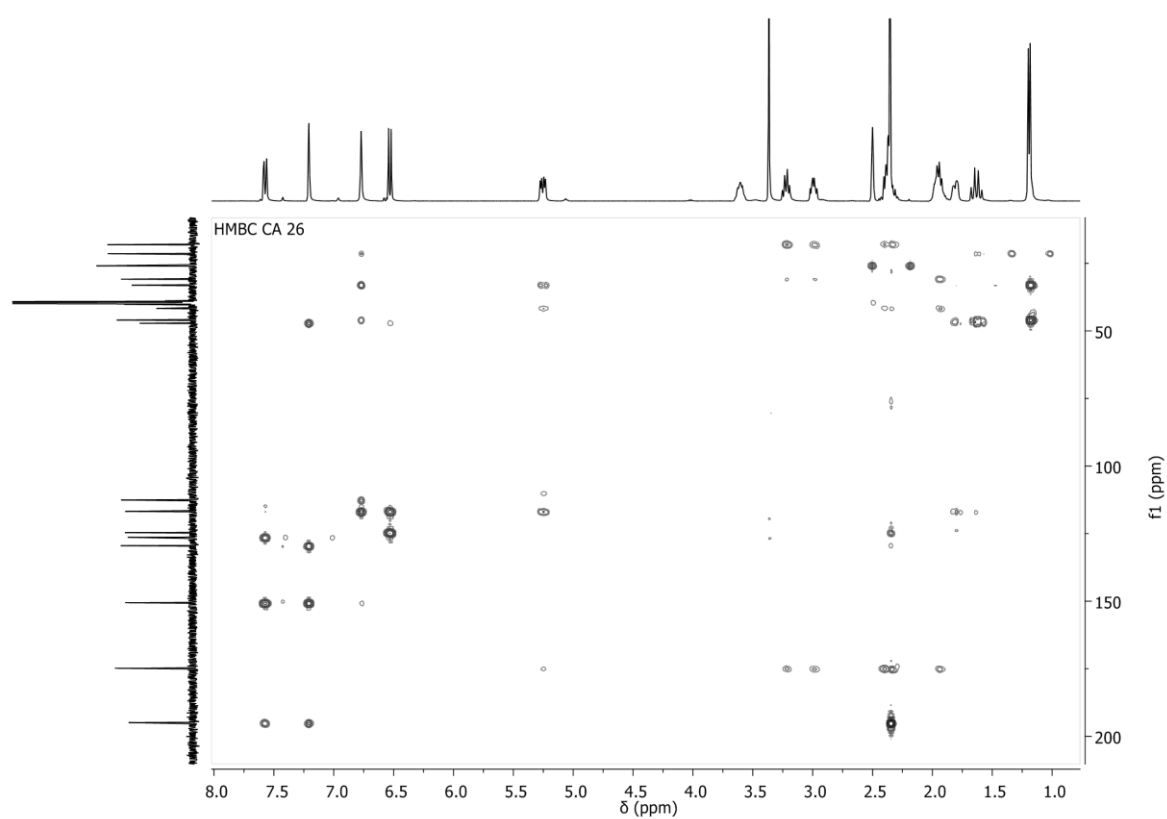
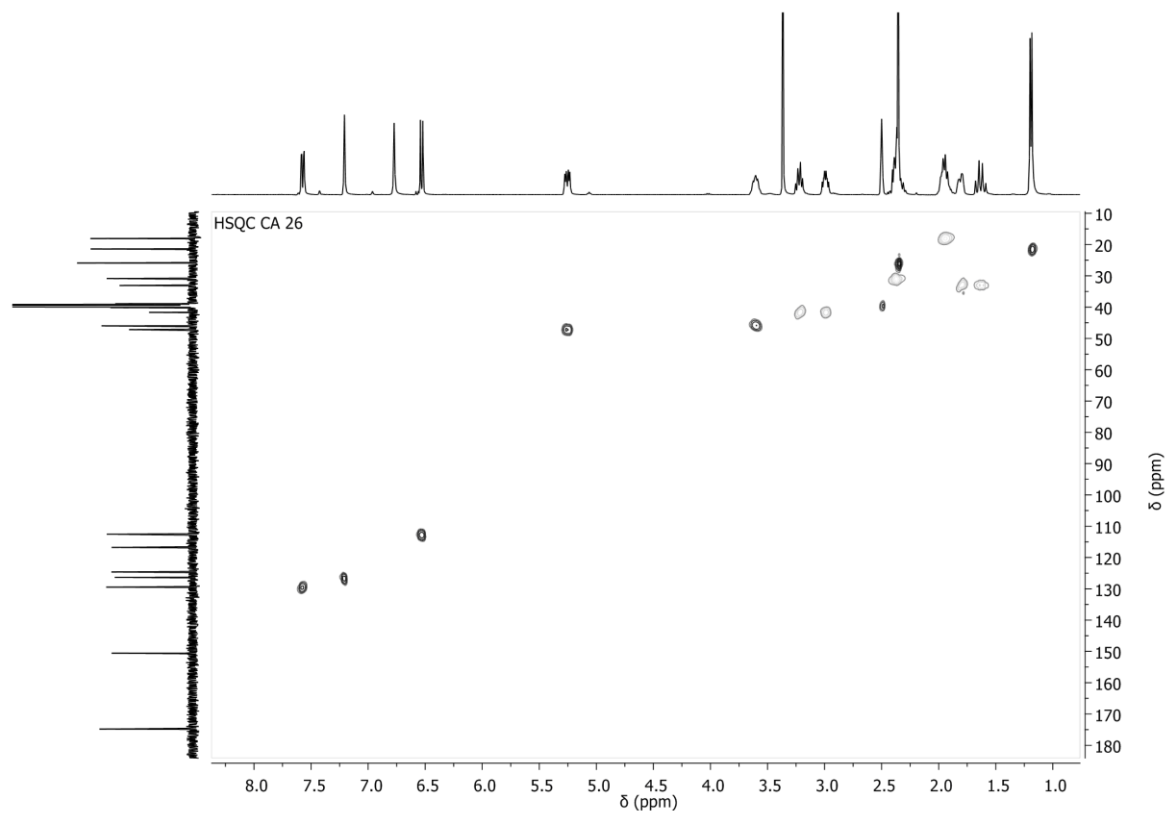




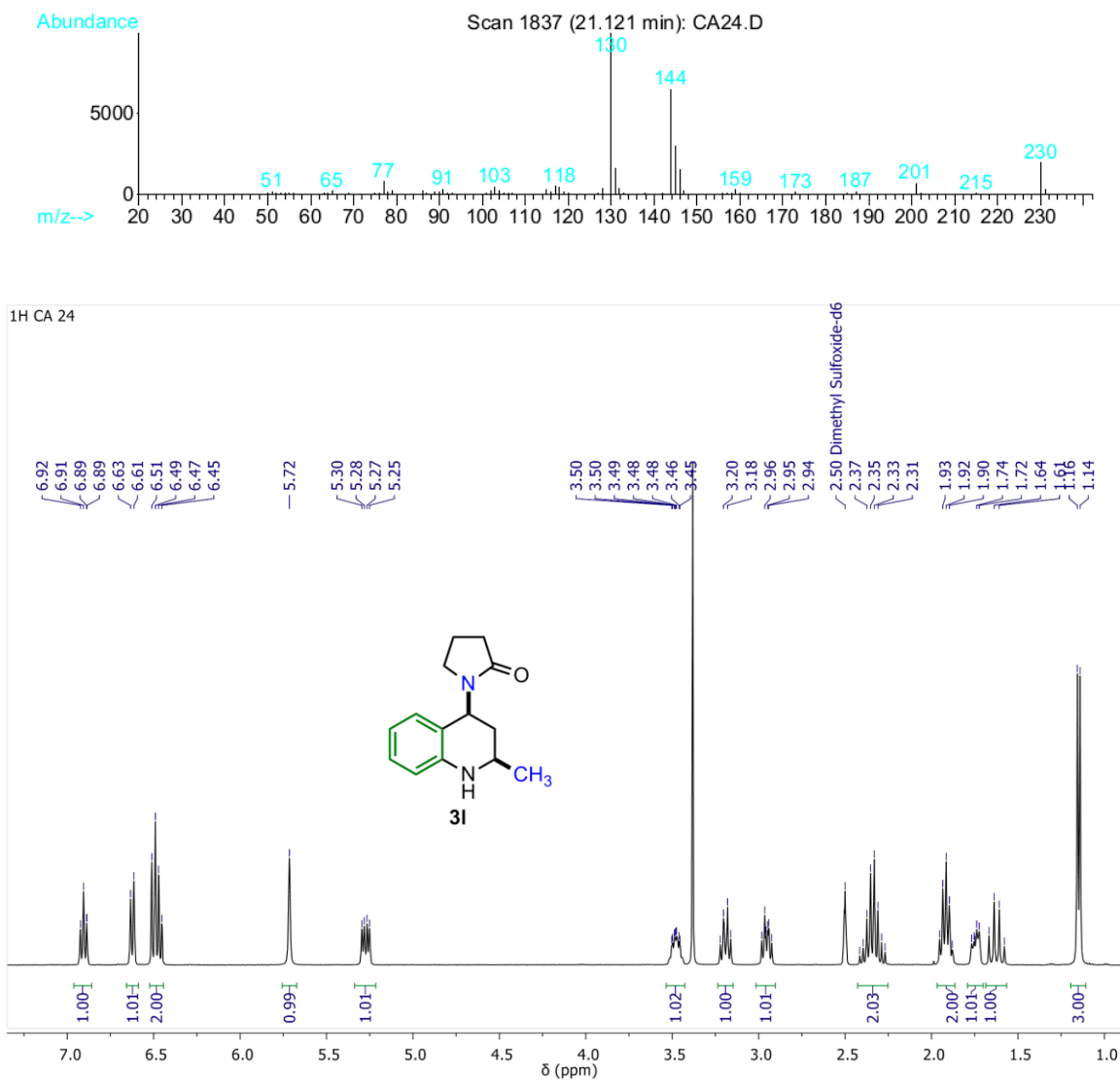
1-(6-Acetyl-2-methyl-1,2,3,4-tetrahydroquinolin-4-yl) pyrrolidin-2-one, **3k**.

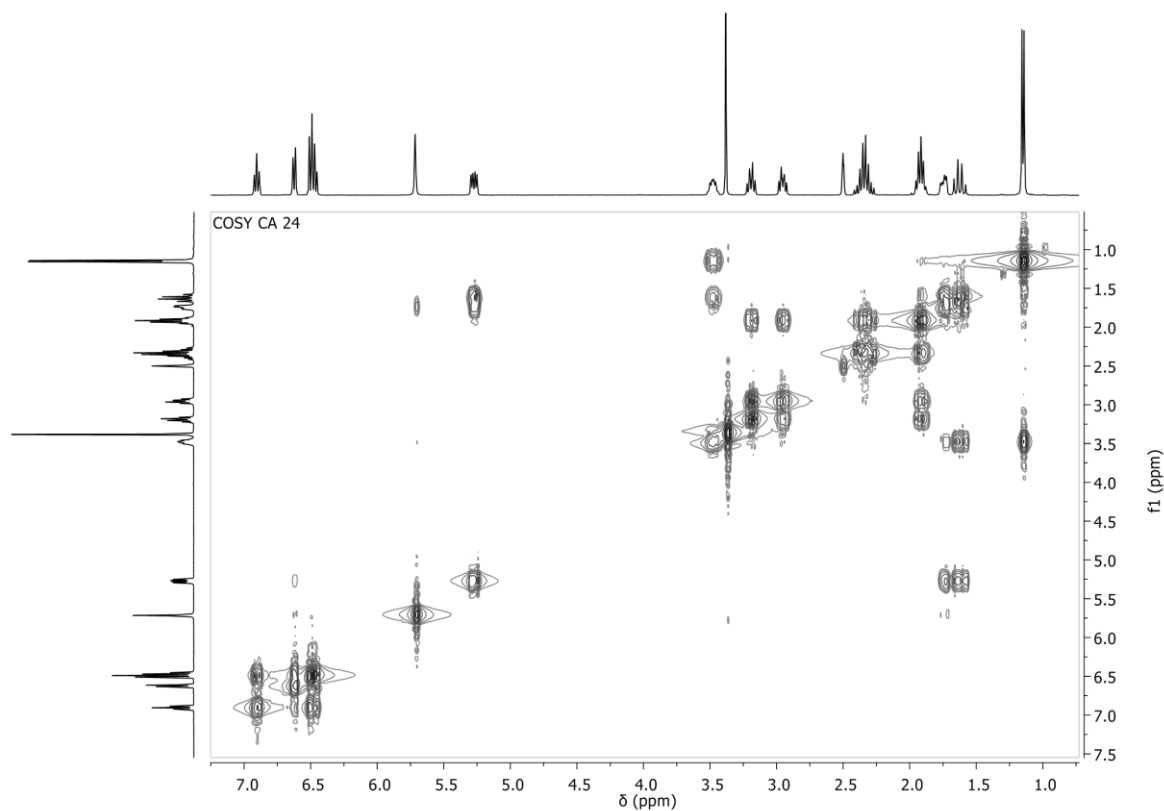
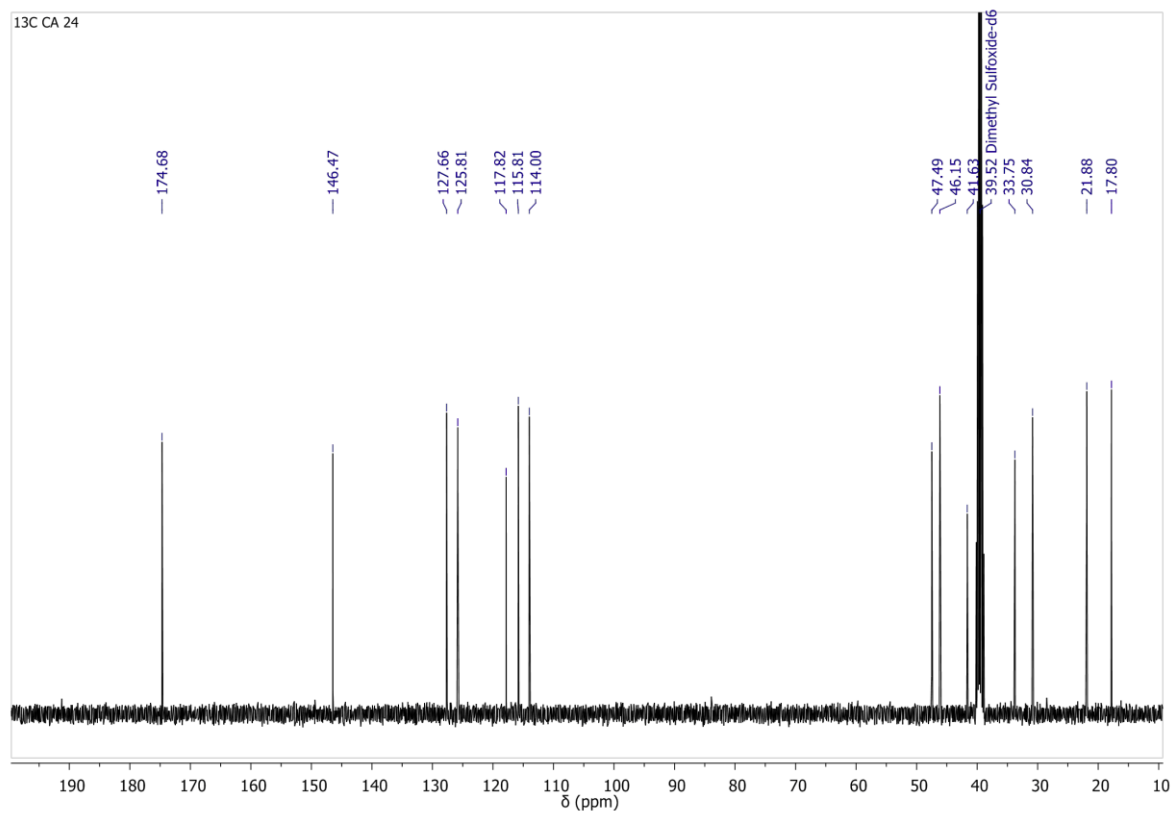


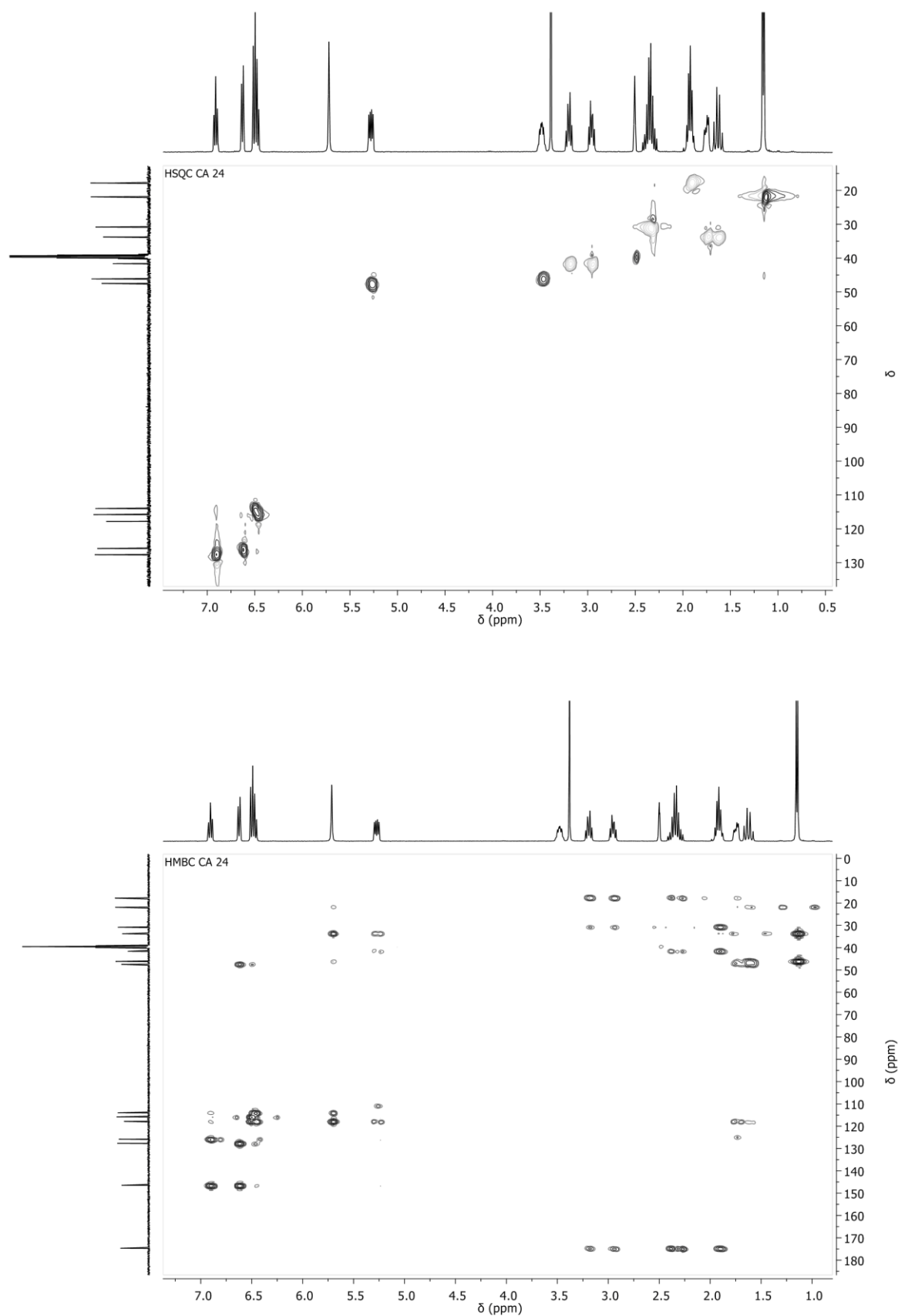




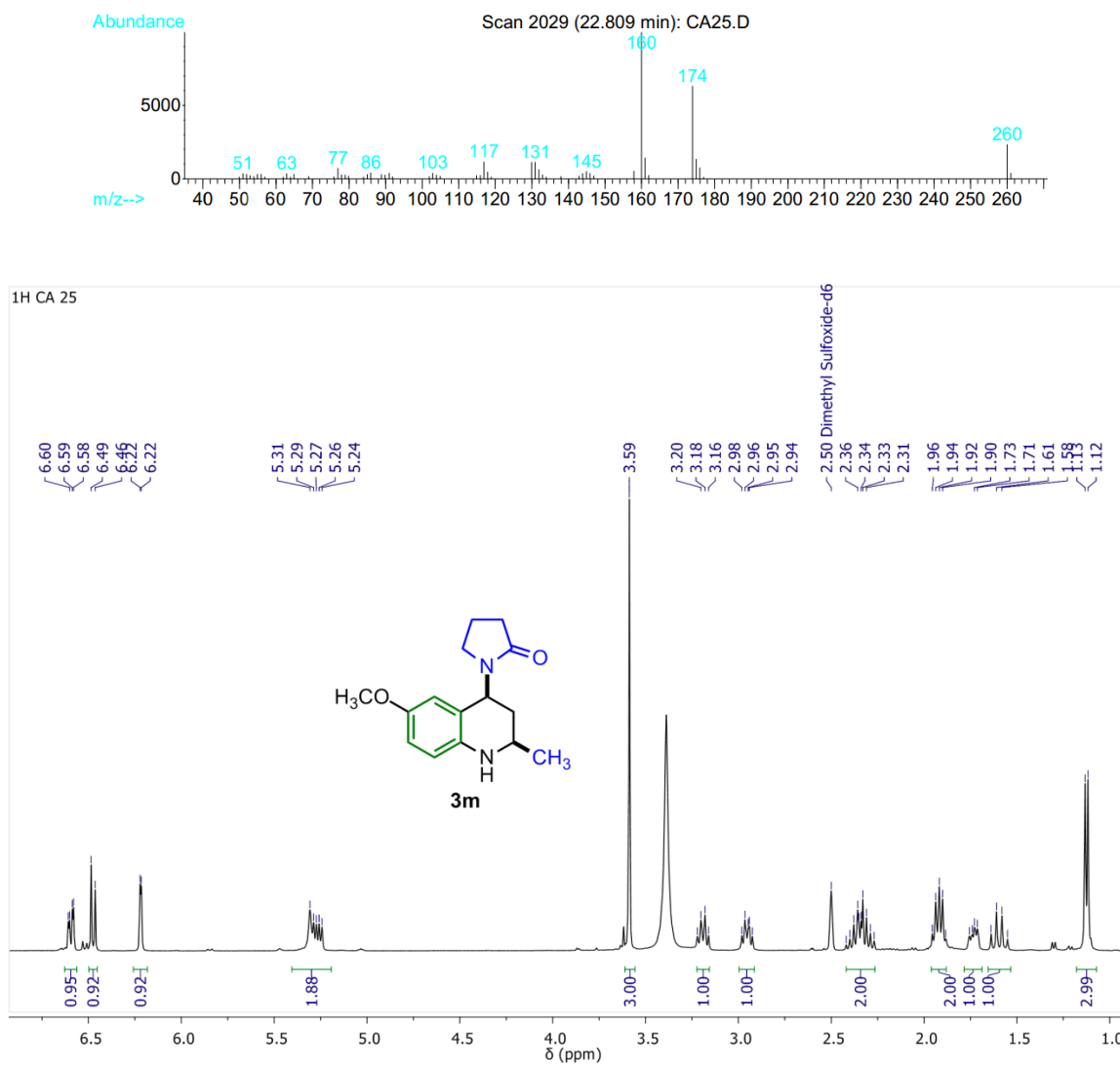
1-(2-Methyl-1,2,3,4-tetrahydroquinolin-4-yl) pyrrolidin-2-one, **3I**.

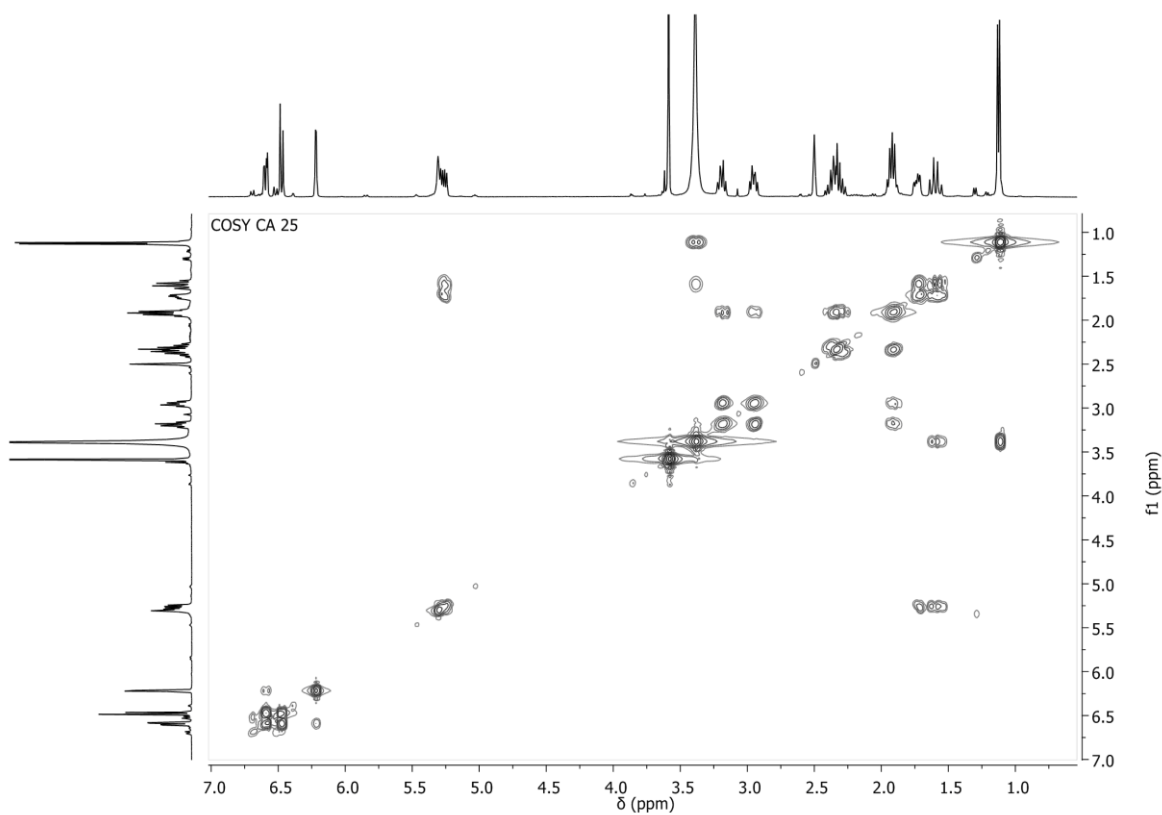
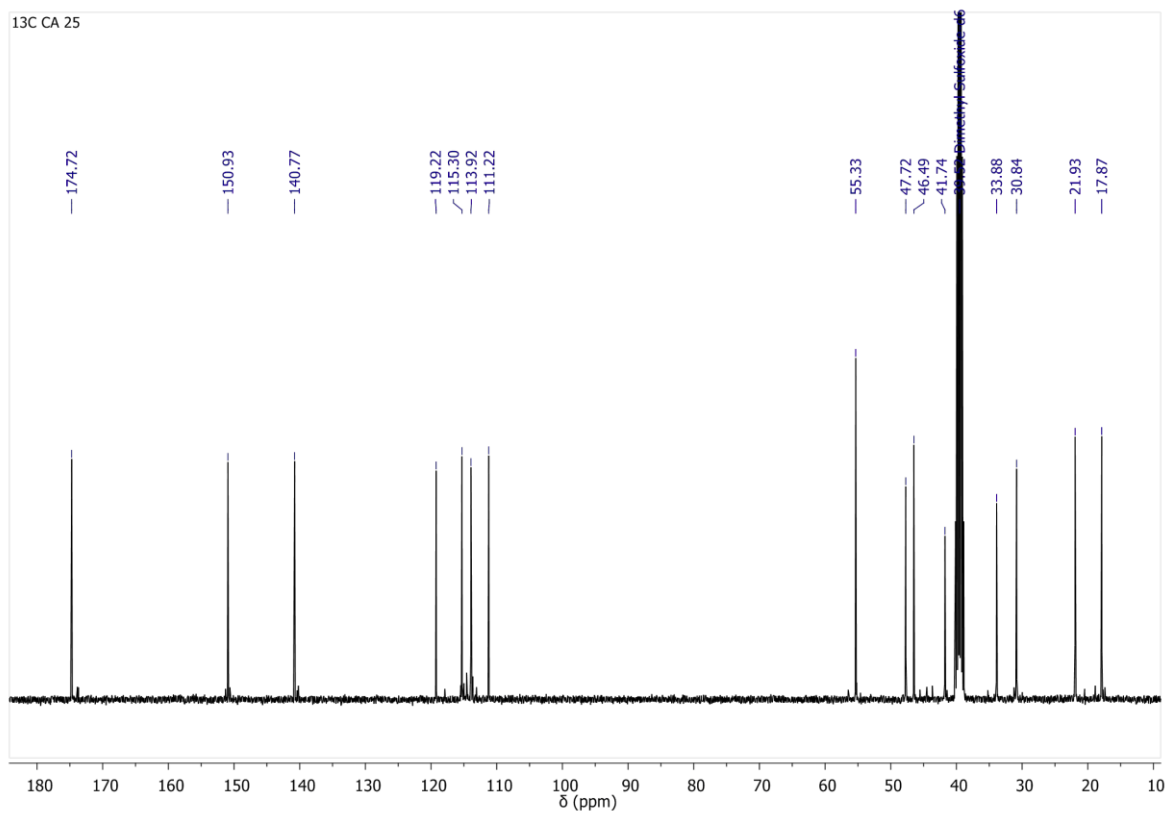


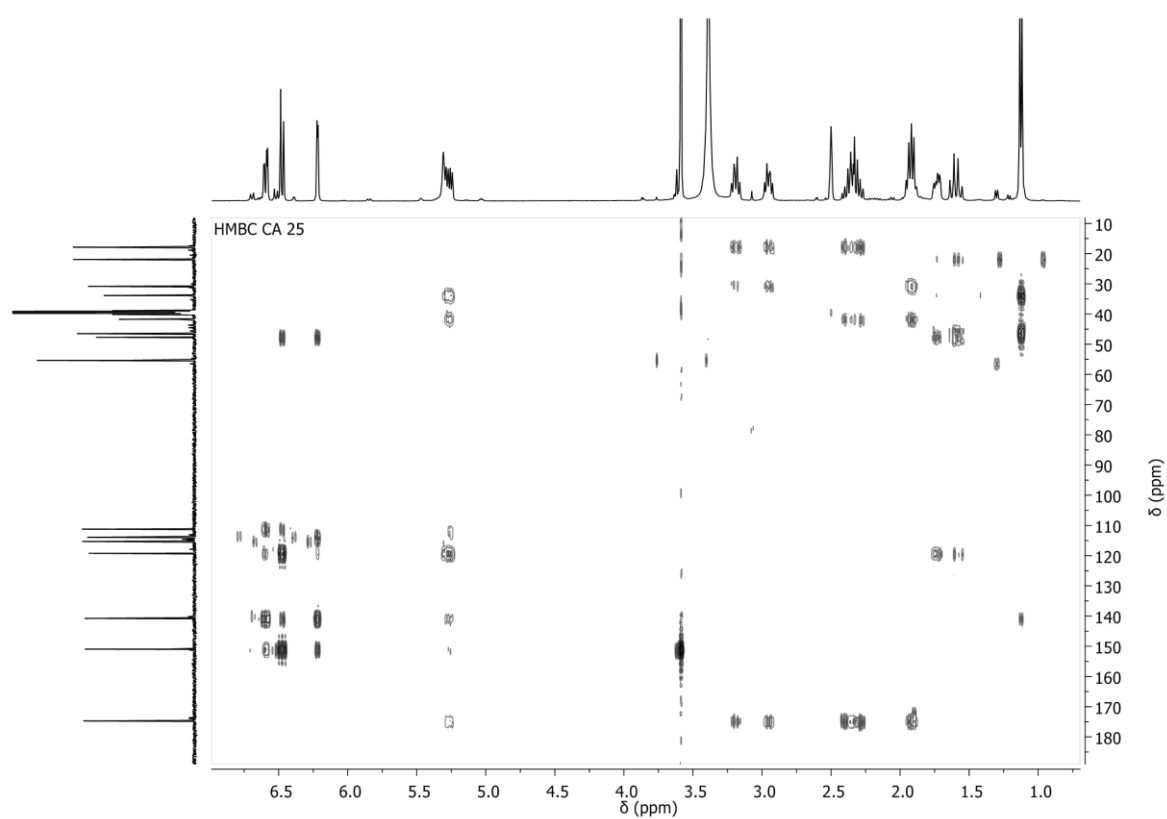
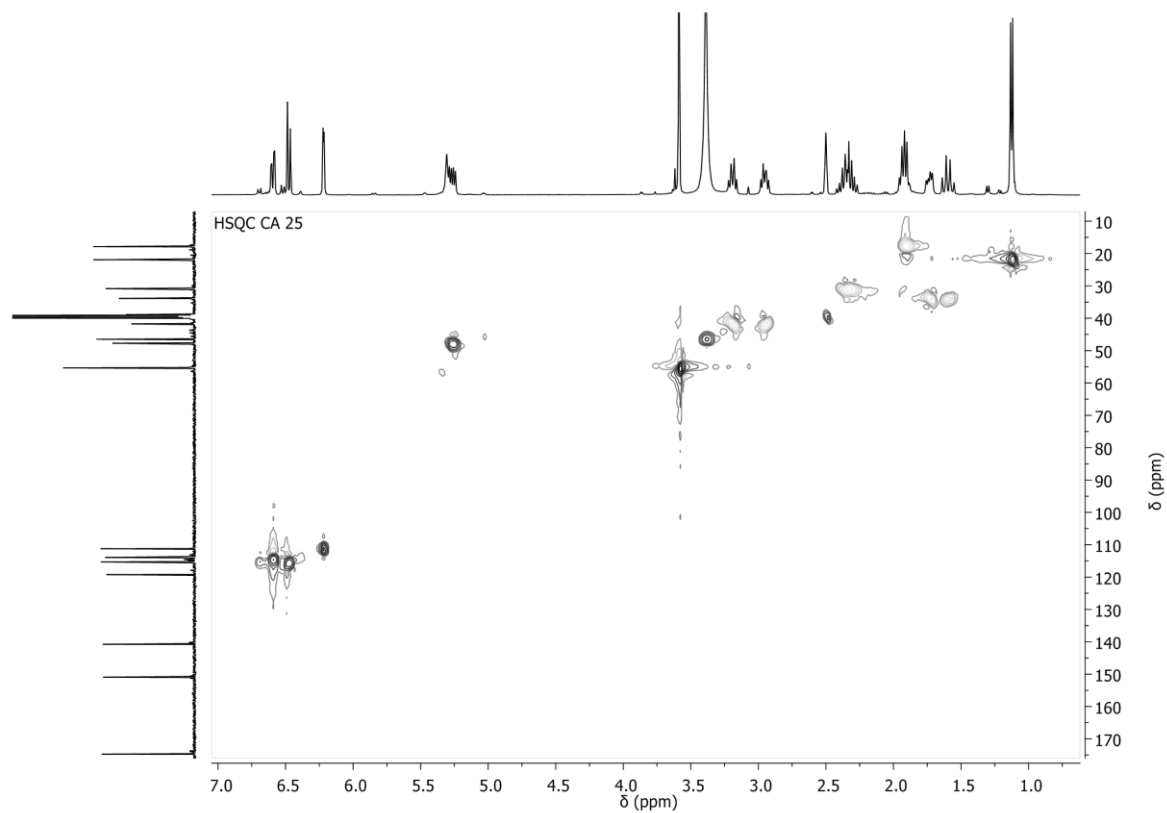




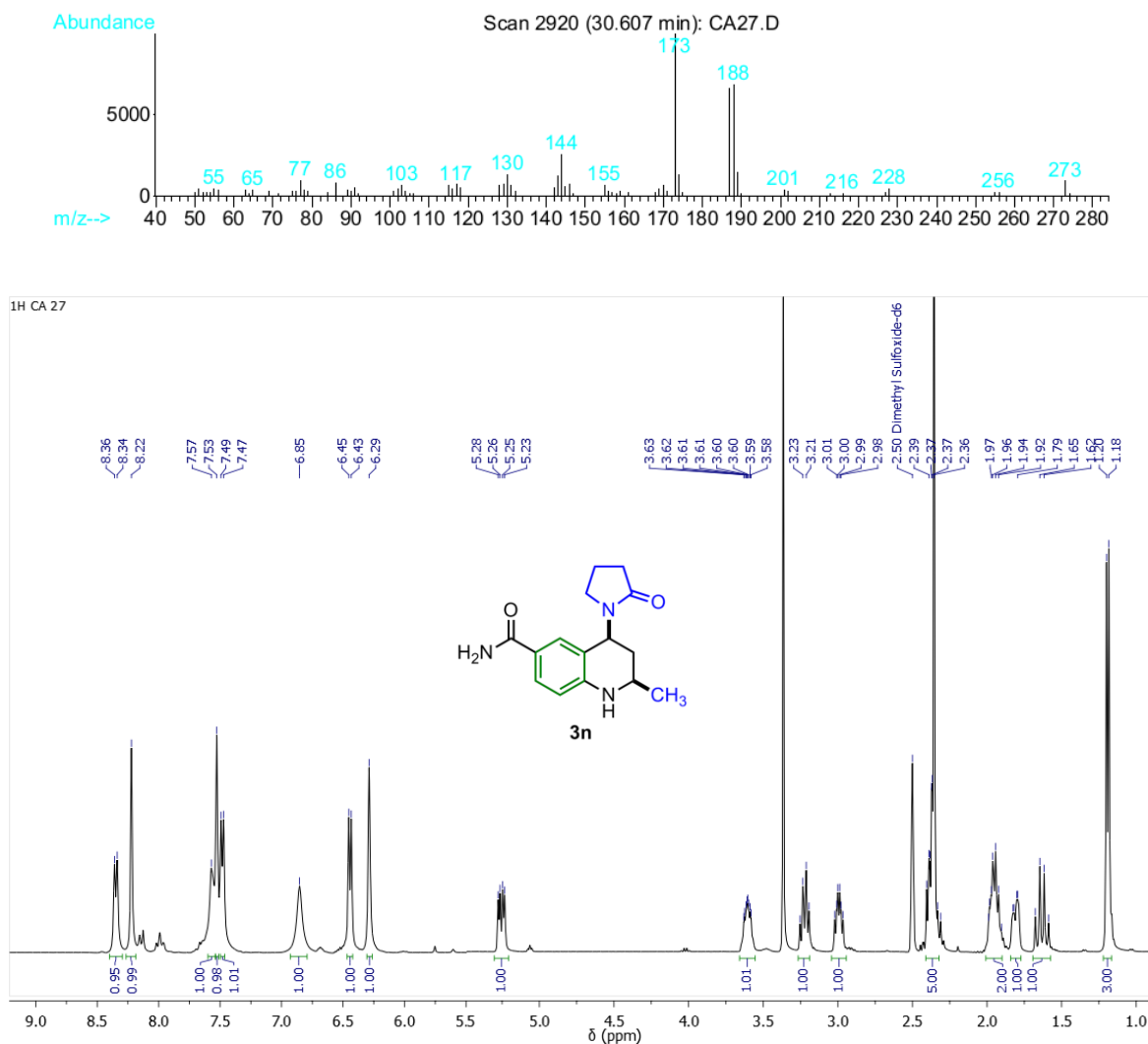
1-(6-Methoxy-2-methyl-1,2,3,4-tetrahydroquinolin-4-yl) pyrrolidin-2-one, **3m**.







4-Methyl-4-(2-oxopyrrolidin-1-yl)-1,2,3,4-tetrahydroquinoline-6-carboxamide, **3n**.



2-Methyl-4-(2-oxopyrrolidin-1-yl)-1,2,3,4-tetrahydroquinoline-6-carboxylic acid, **3o**.

