

SUPPORTING INFORMATION FOR

Synthesis of New (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-heteroaryl-acrylonitriles Via Microwave-Assisted Knoevenagel Condensation.

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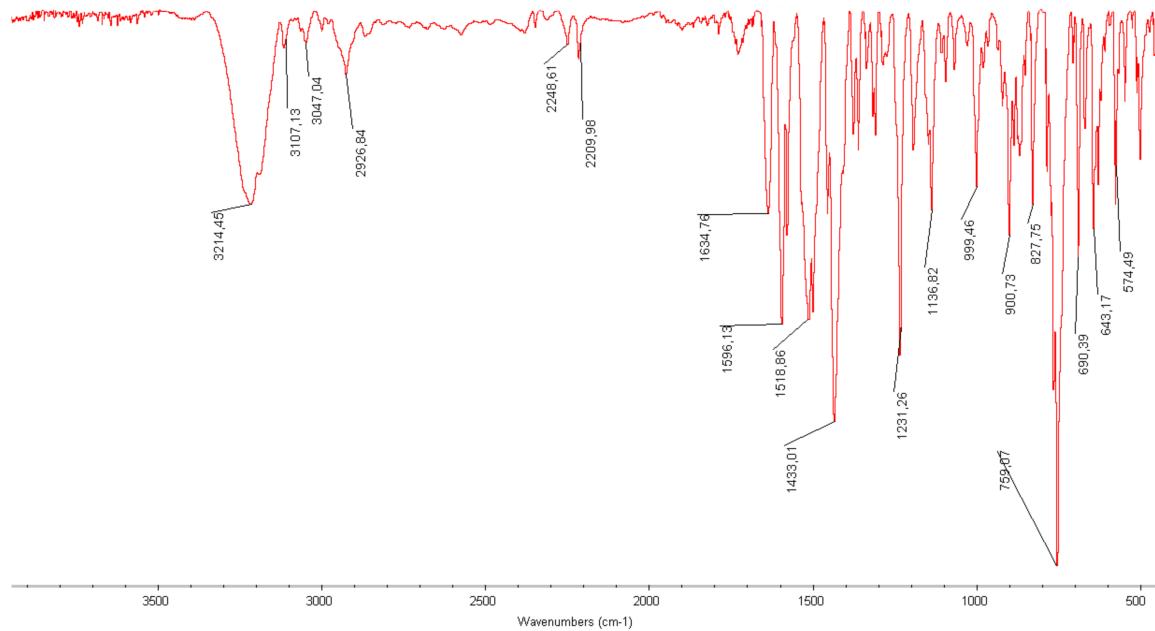
*Corresponding author: Margarita Gutierrez, Ph.D., Organic Synthesis Laboratory and Biological Activity (LSO-Act-Bio), Institute of Chemistry of Natural Resources, Universidad de Talca, P.O. Box 747, Talca 3460000, Chile E-mail: mgutierrez@utalca.cl

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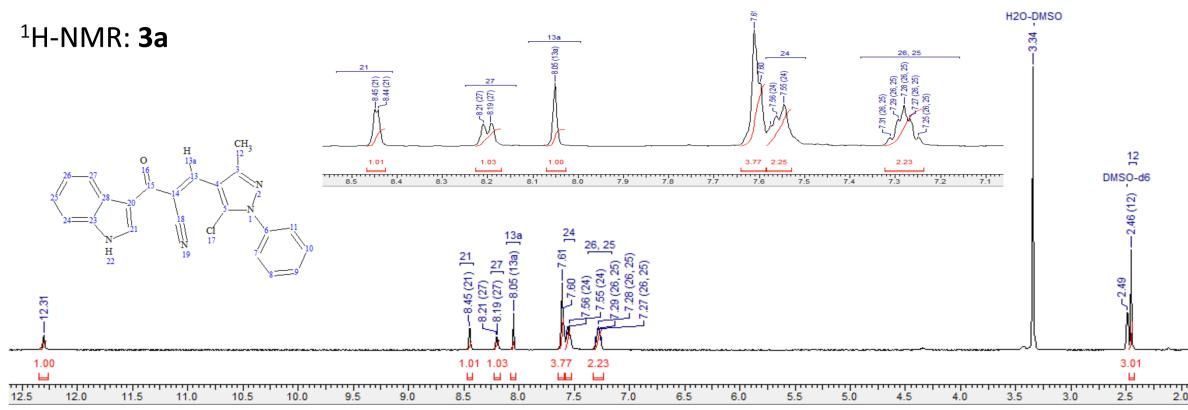
S1. FT-IR, ^1H NMR, ^{13}C NMR and ESI-MS spectra of new compounds

3a: (*E*)-2-(1*H*-indole-3ylcarbonyl)-3-(5-chloro-3-methyl-1-phenyl-1*H*-pyrazol-4-yl)-acrylonitrile

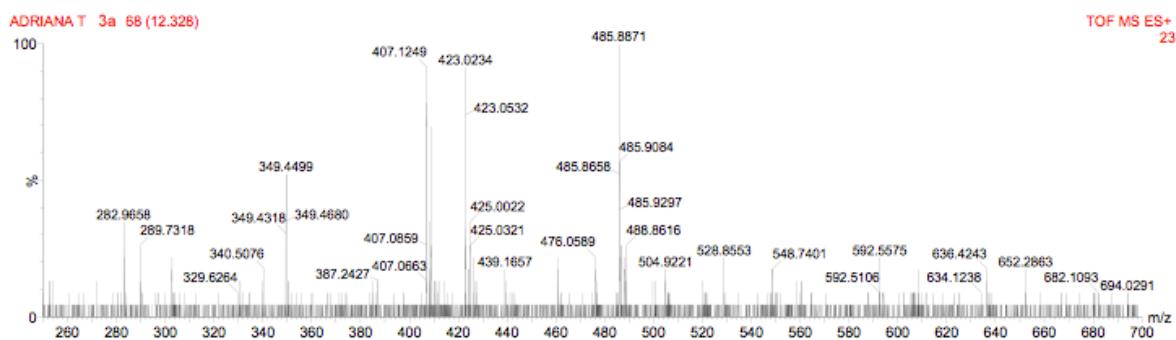
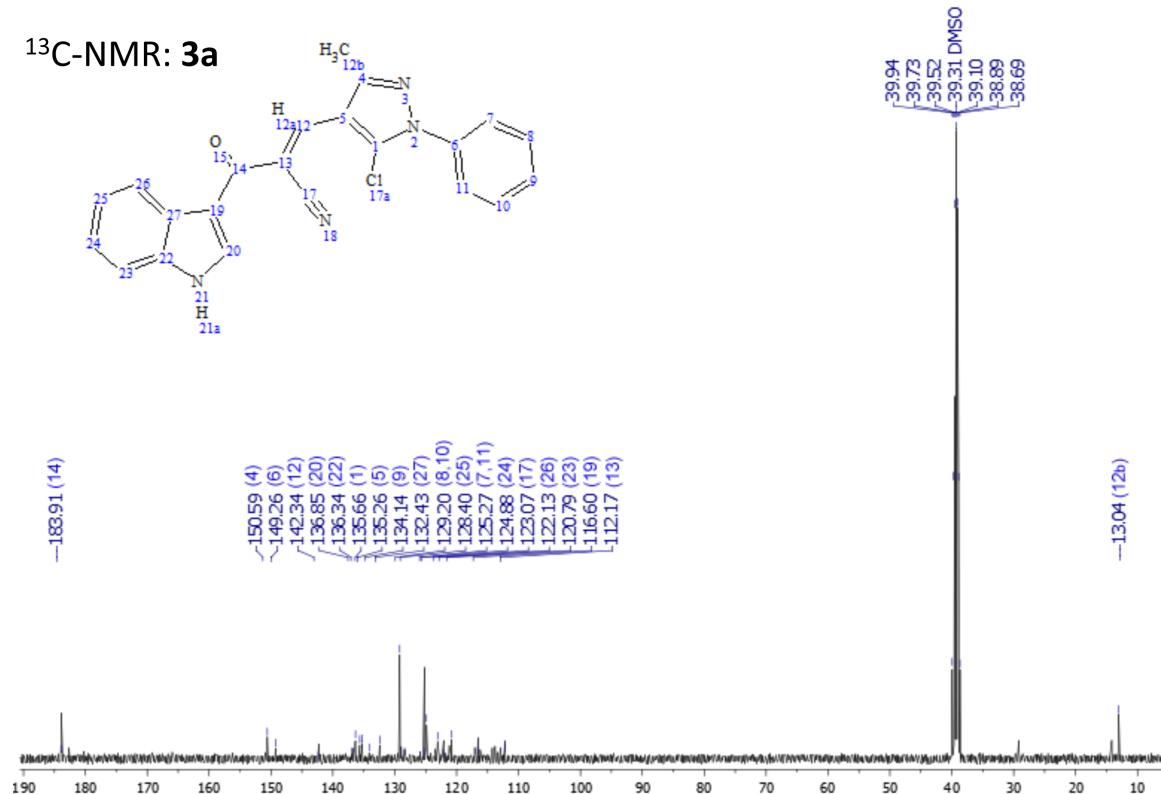
IR: 3a



^1H -NMR: 3a

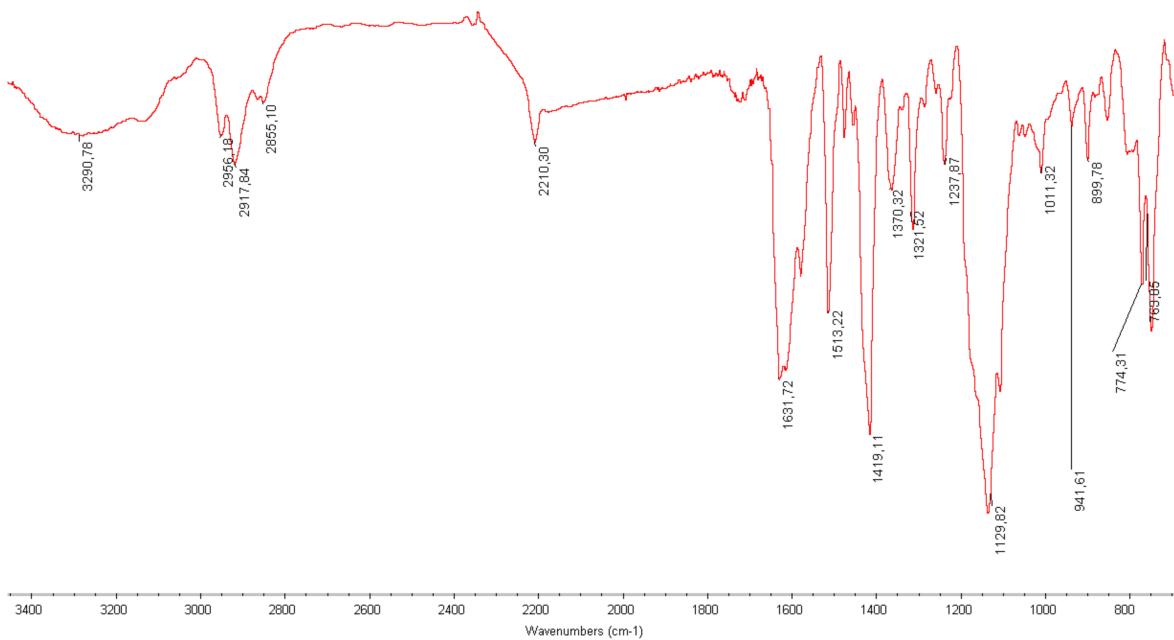


¹³C-NMR: 3a

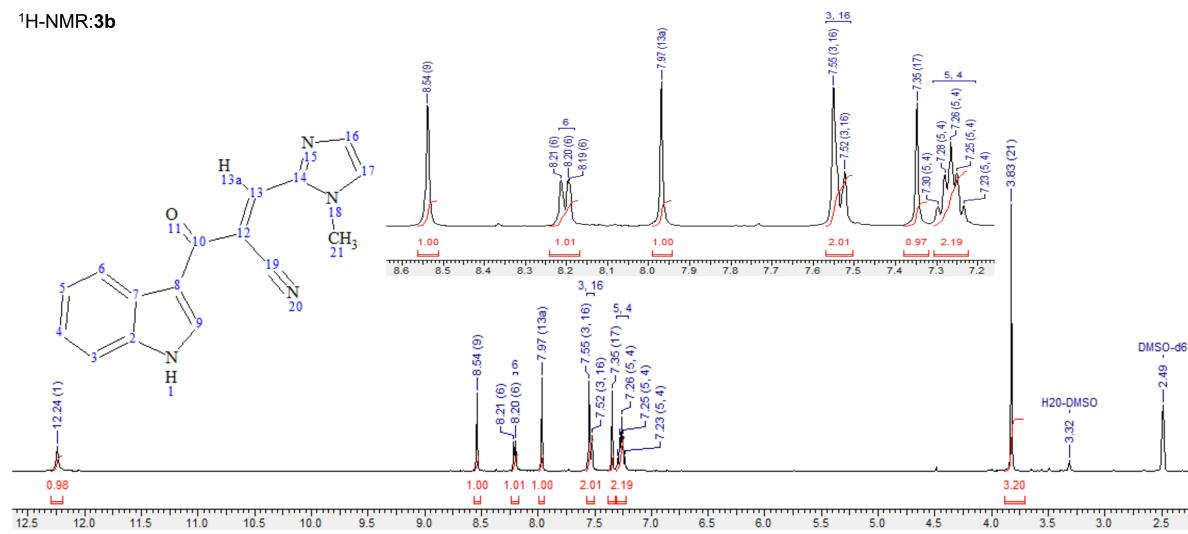


3b: (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-(1-methyl-1*H*-imidazol-2-yl)-acrylonitrile

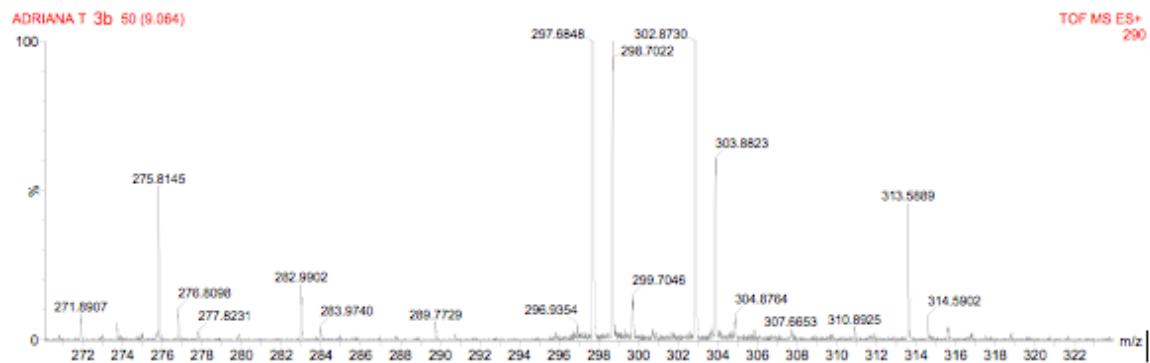
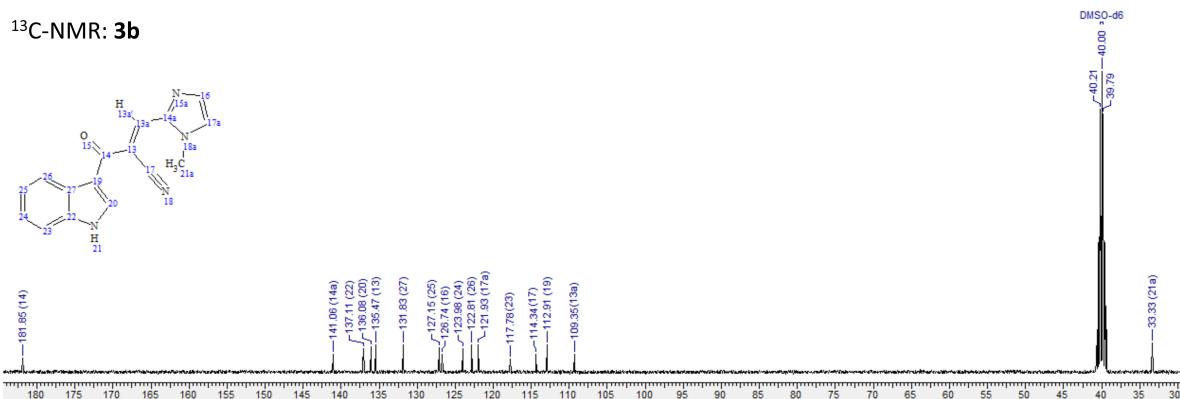
IR: 3b



¹H-NMR:3b

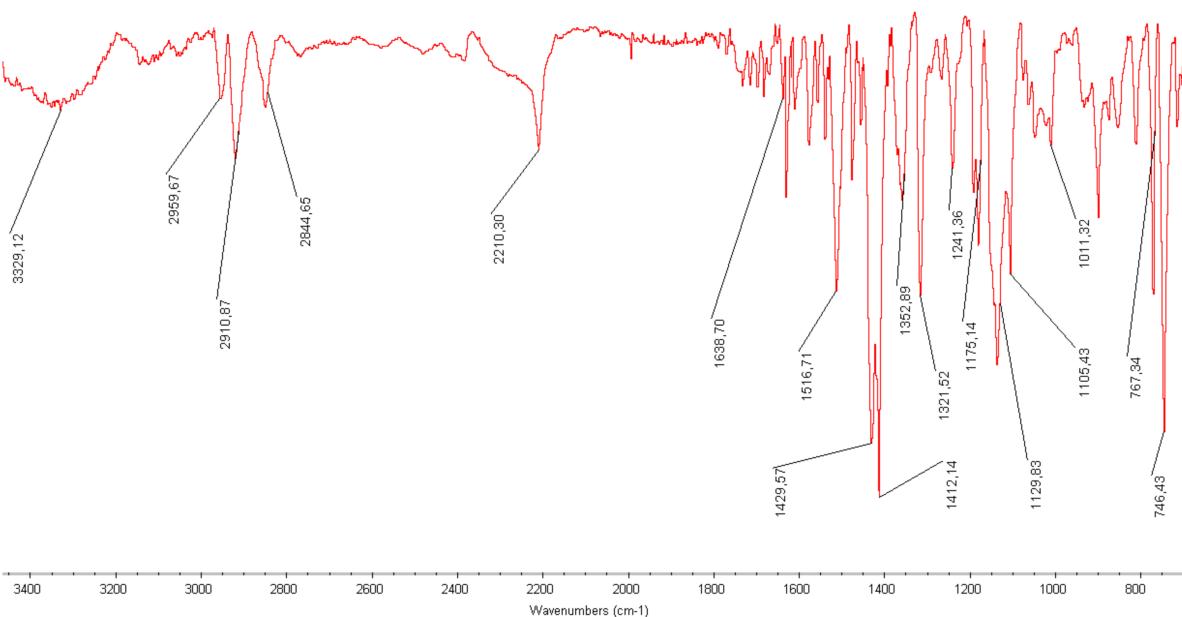


¹³C-NMR: 3b

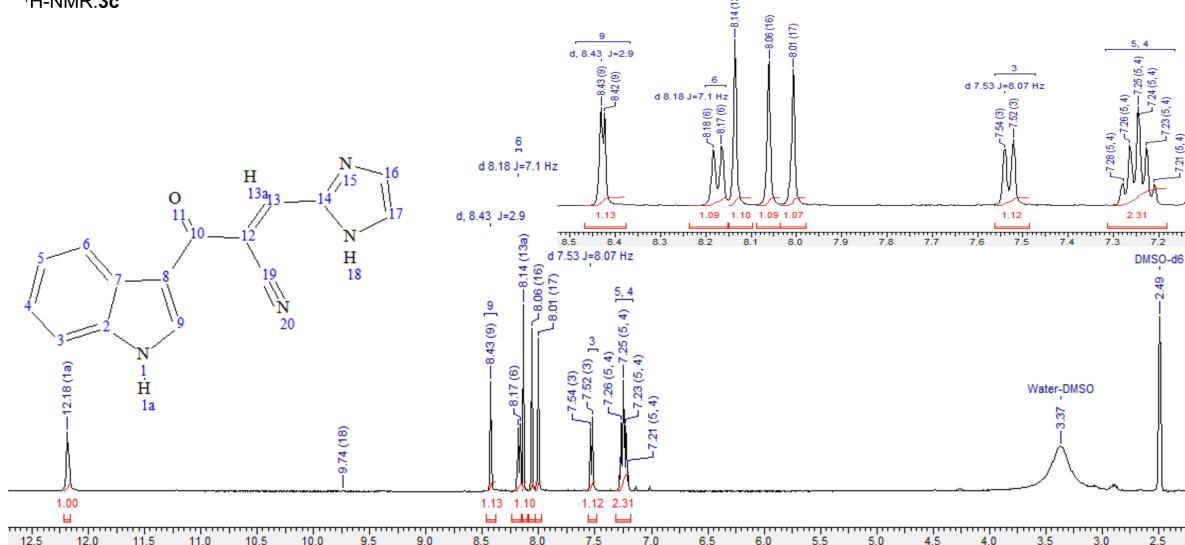


3c: (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-(1*H*-imidazol-2-yl)-acrylonitrile

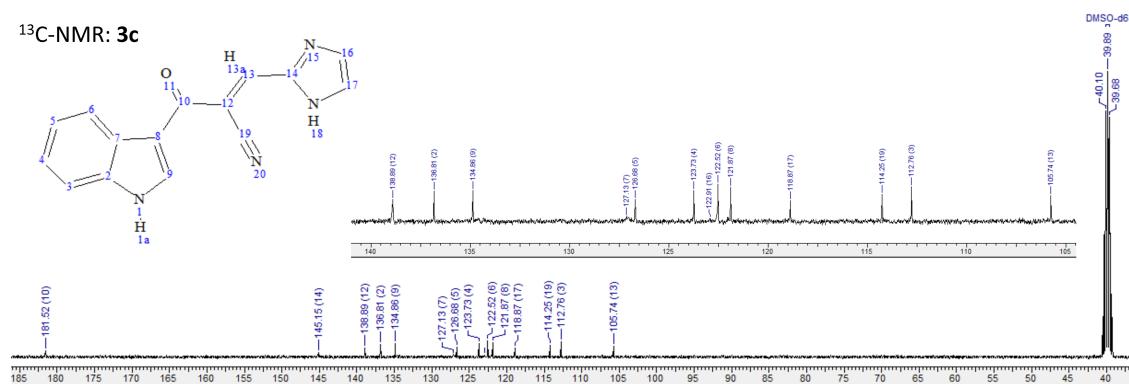
IR: 3c



¹H-NMR: 3c

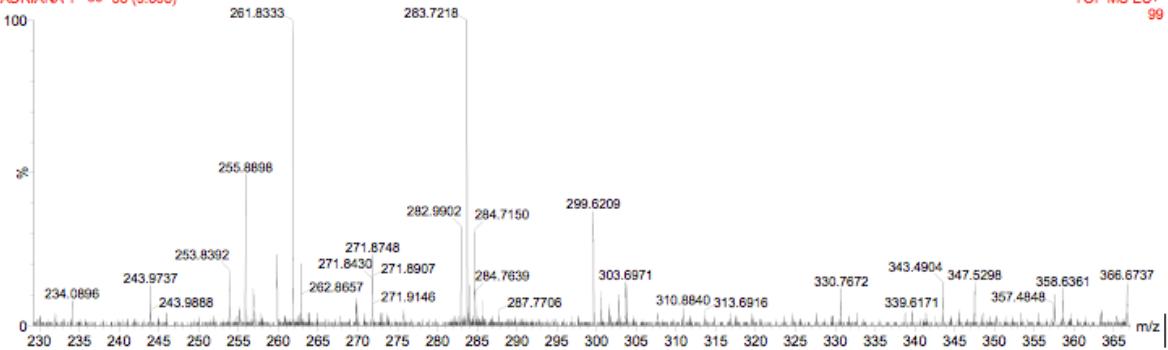


¹³C-NMR: 3c



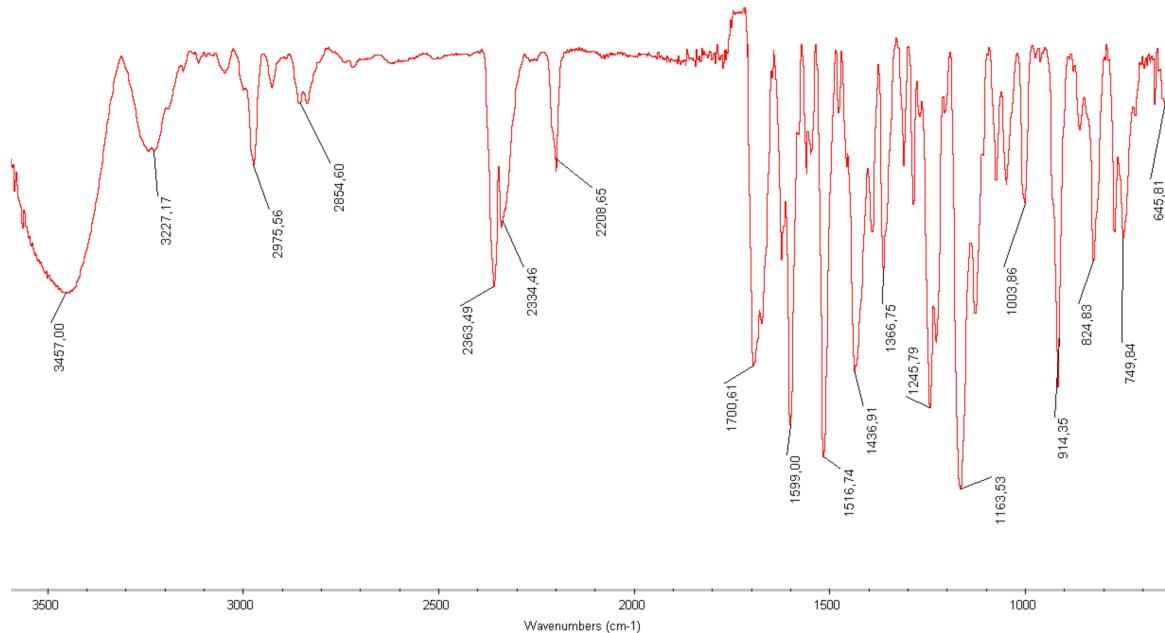
ADRIANA T 3c 53 (9.608)

TOF MS ES+
99

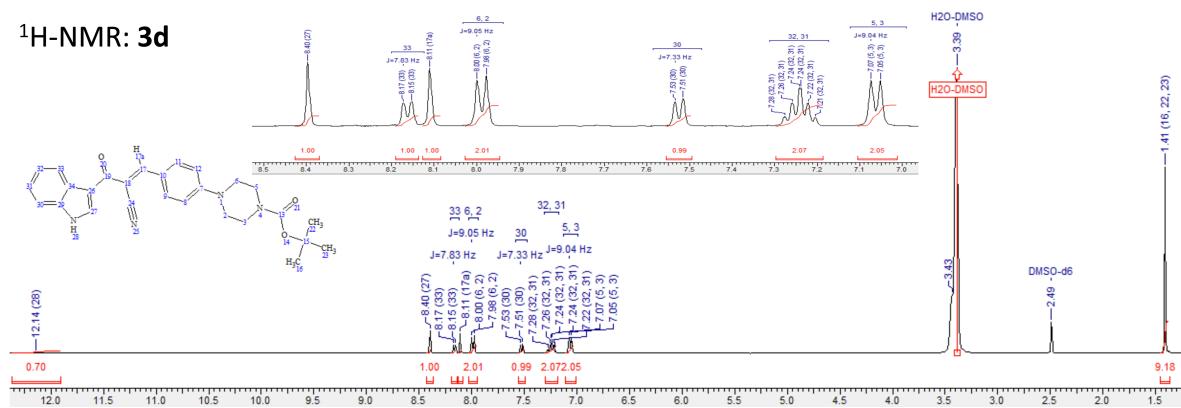


3d: (*E*)-2-(1*H*-indole-3-ylcarbonyl) 3-(*tert*-butyl-4-phenylpiperazine-1-carboxyl)-acrylonitrile

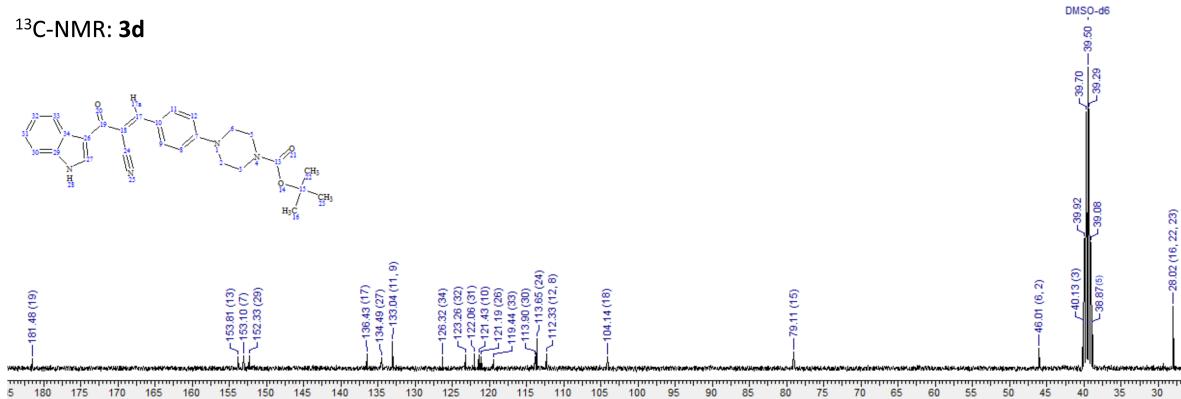
IR: 3d

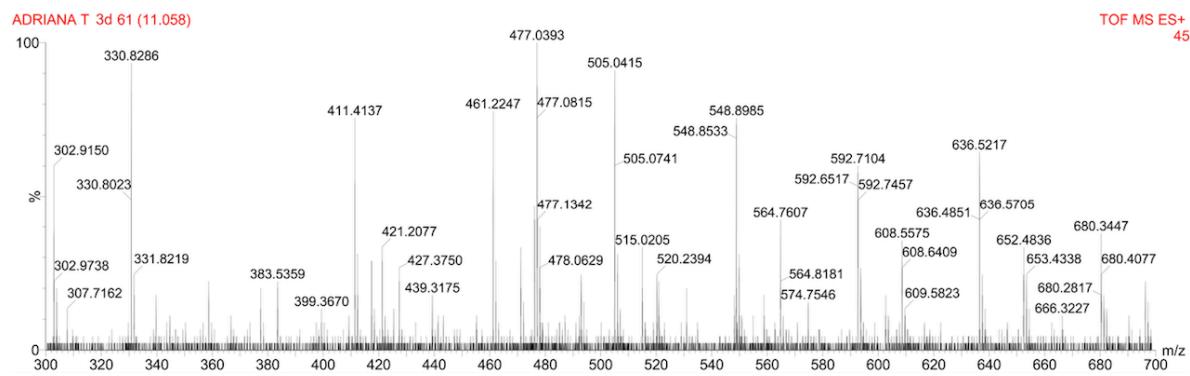


¹H-NMR: 3d



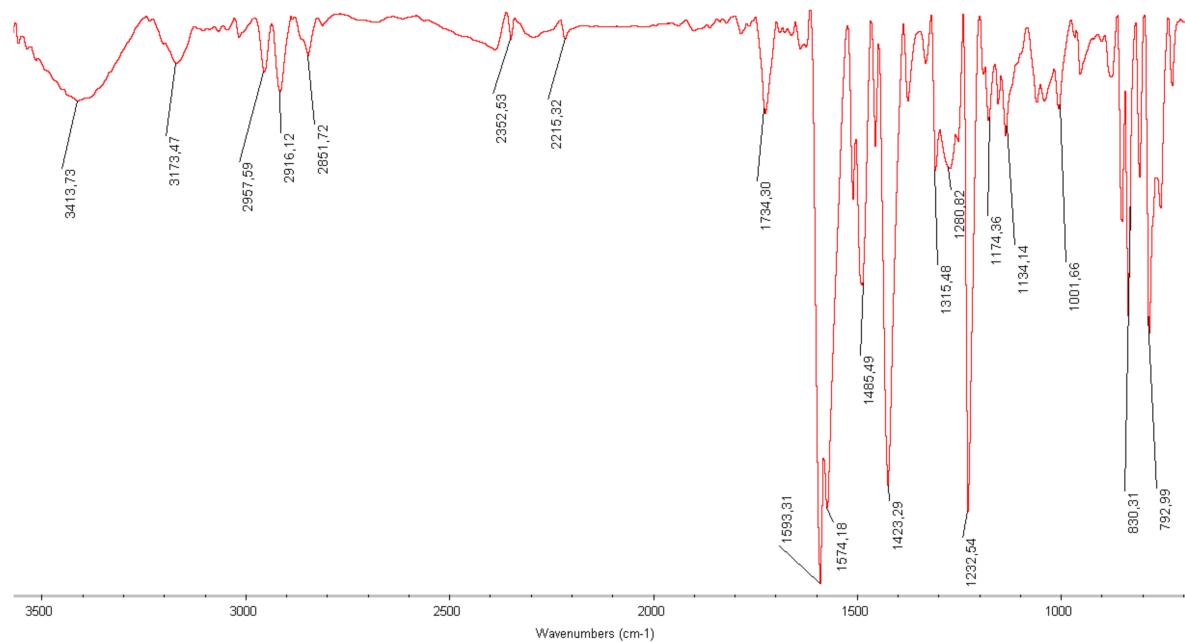
¹³C-NMR: 3d

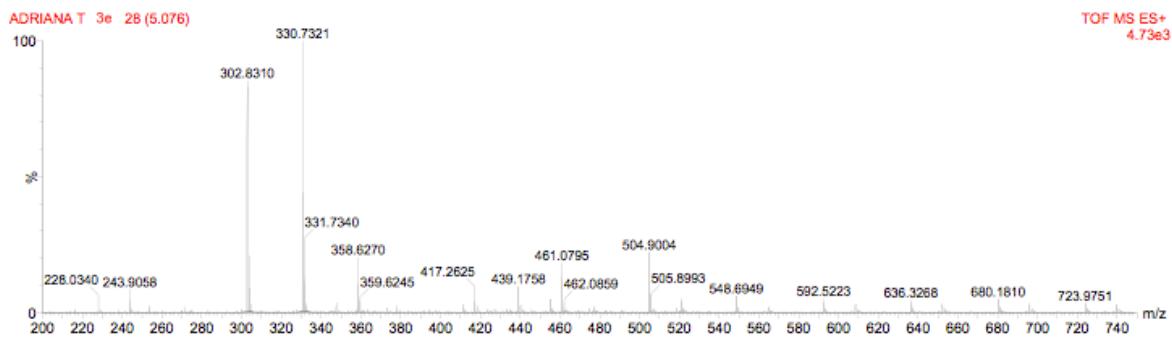
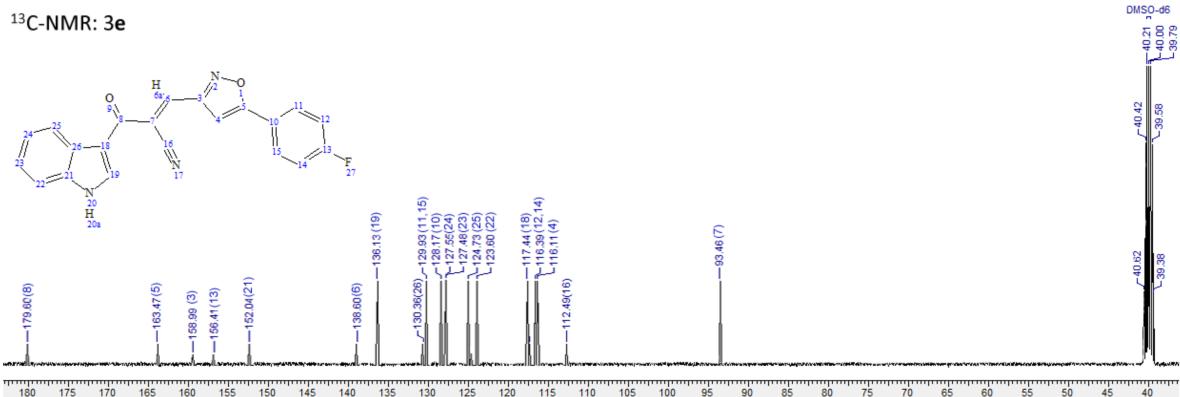
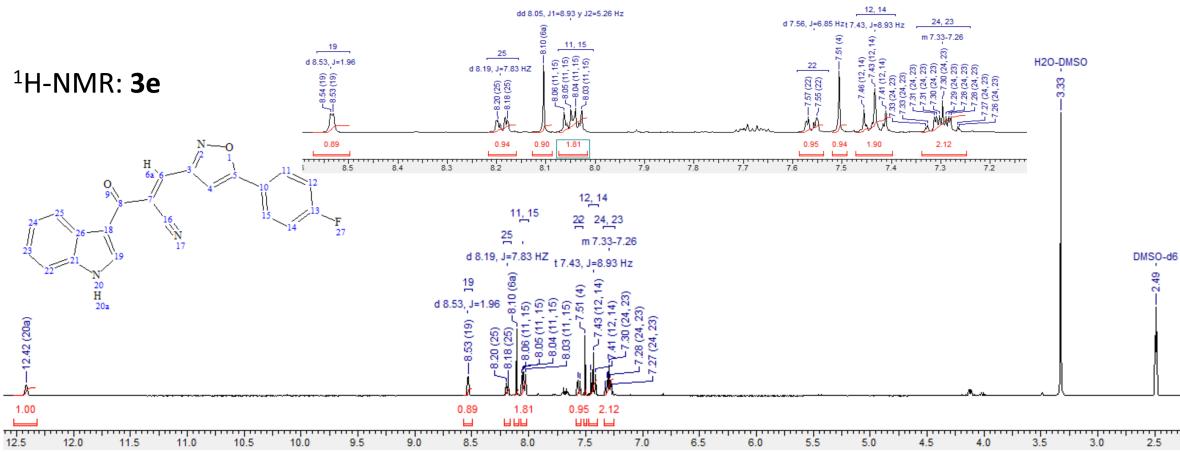




3e: (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-(5-(4-fluorophenyl)isoxazol-3-yl)-acrylonitrile

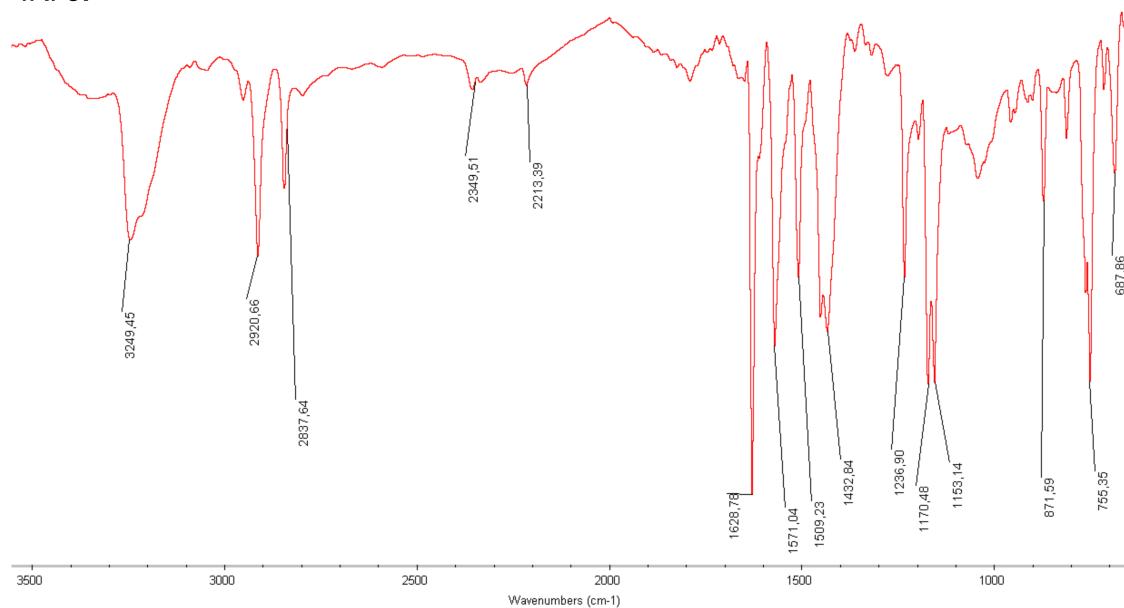
IR: 3e



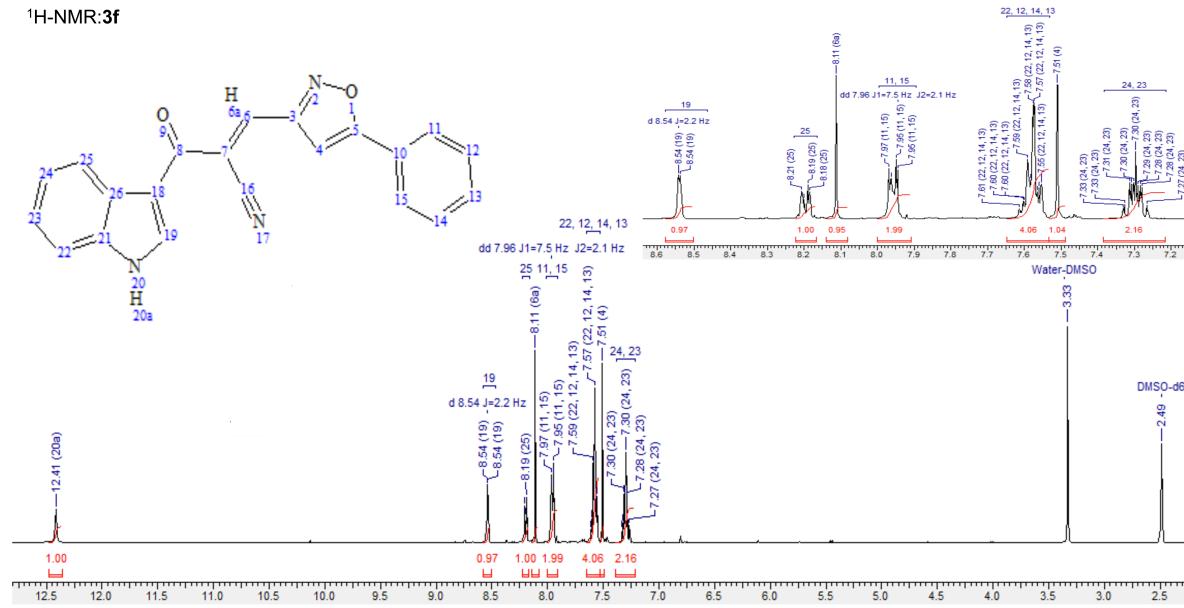


3f: (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-(5-phenylisoxazol-3-yl)-acrylonitrile

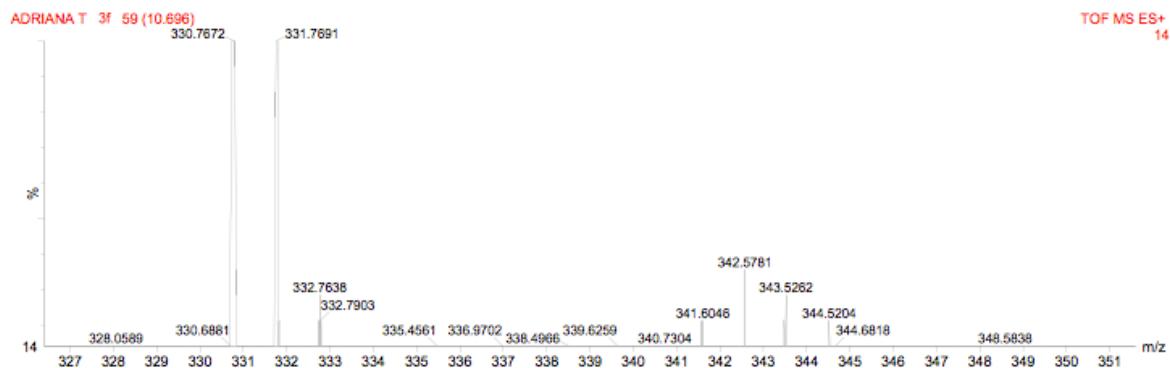
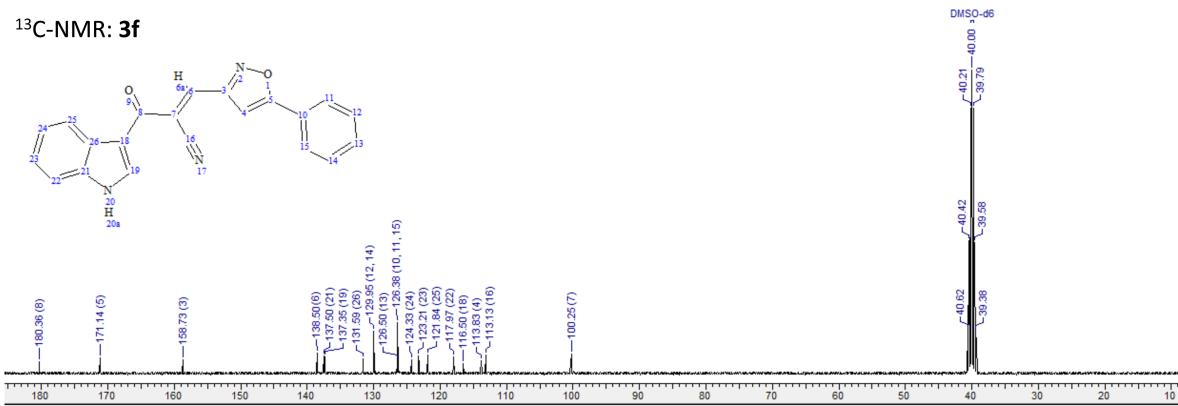
IR: 3f



¹H-NMR: 3f

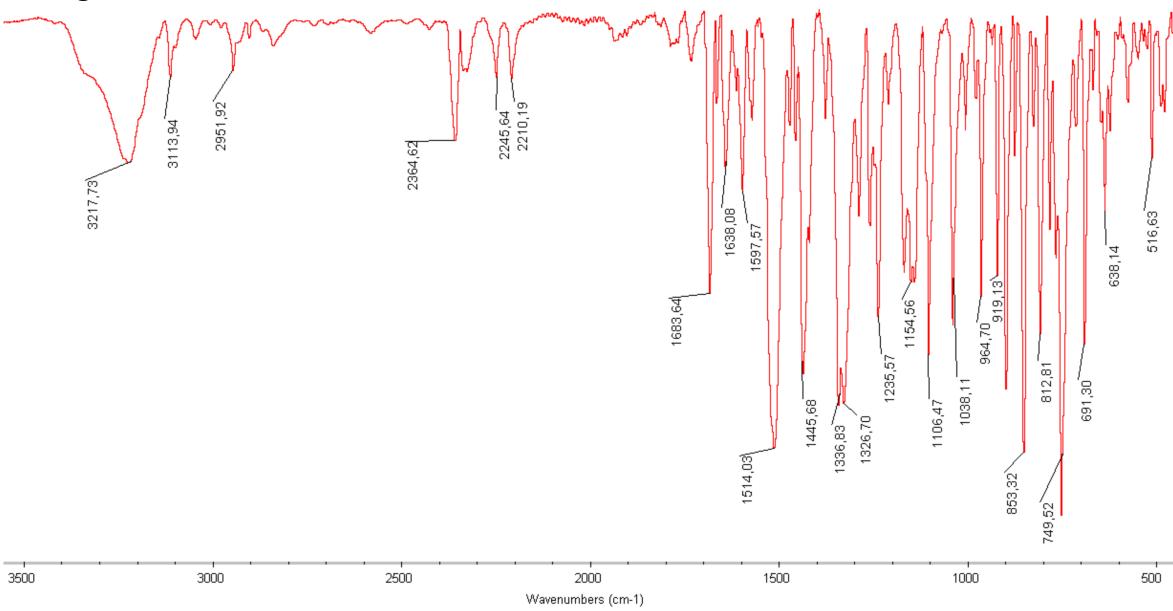


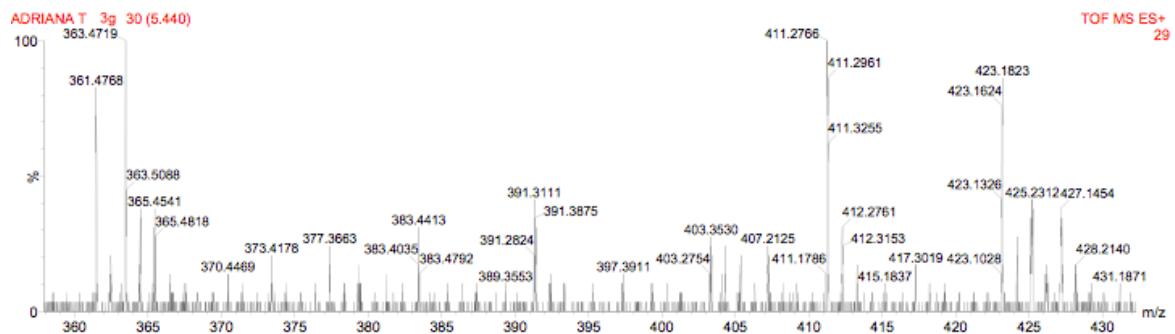
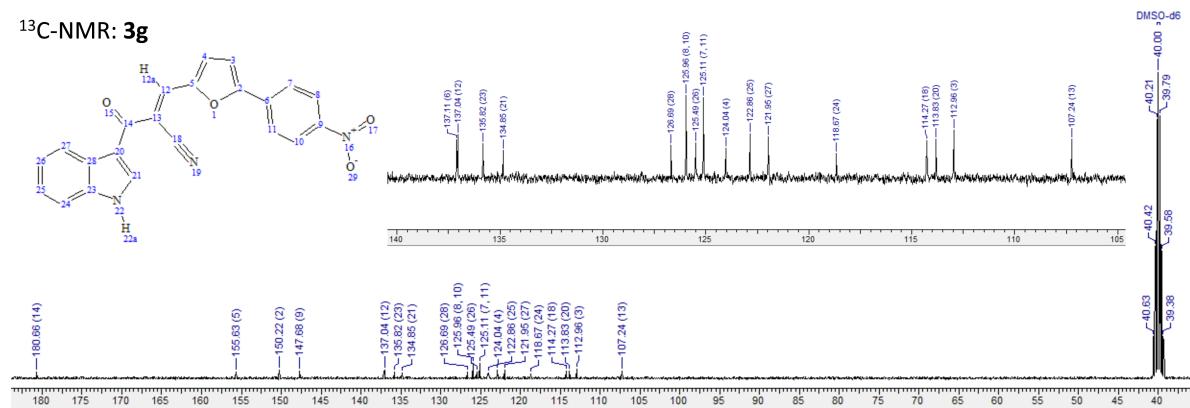
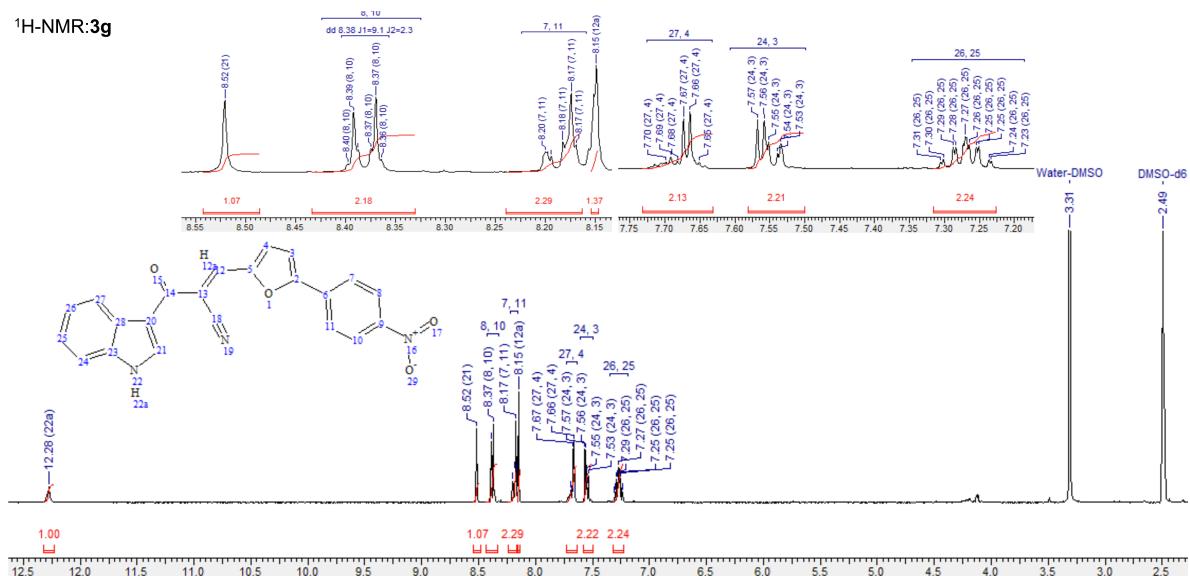
¹³C-NMR: 3f



3g: (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-(5-(4-nitrophenyl)furan-2-yl)-acrylonitrile

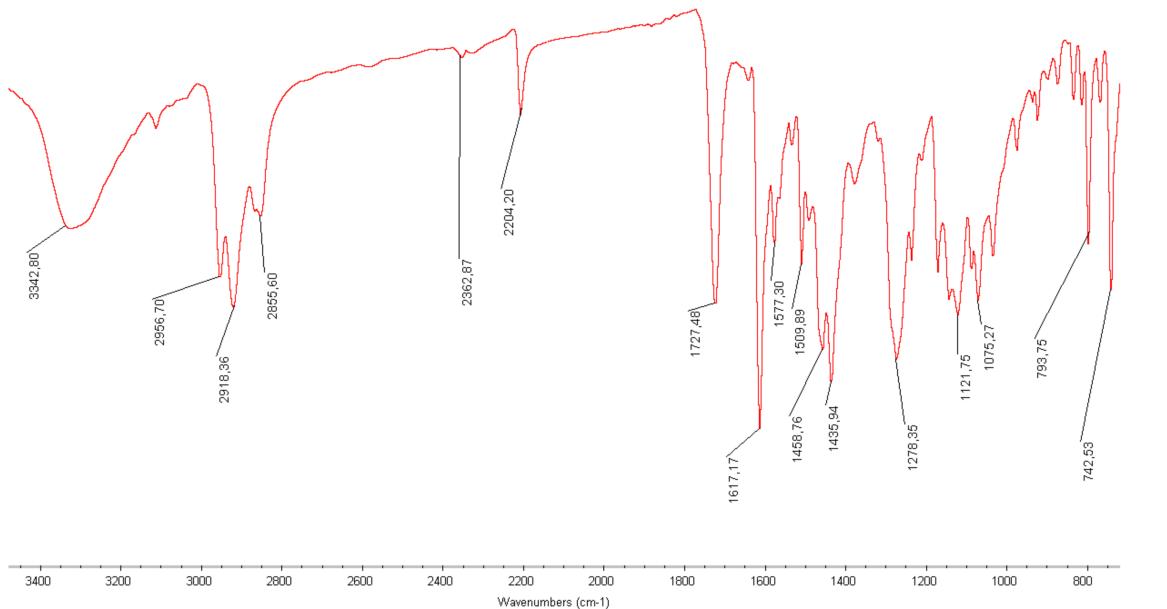
IR: 3g



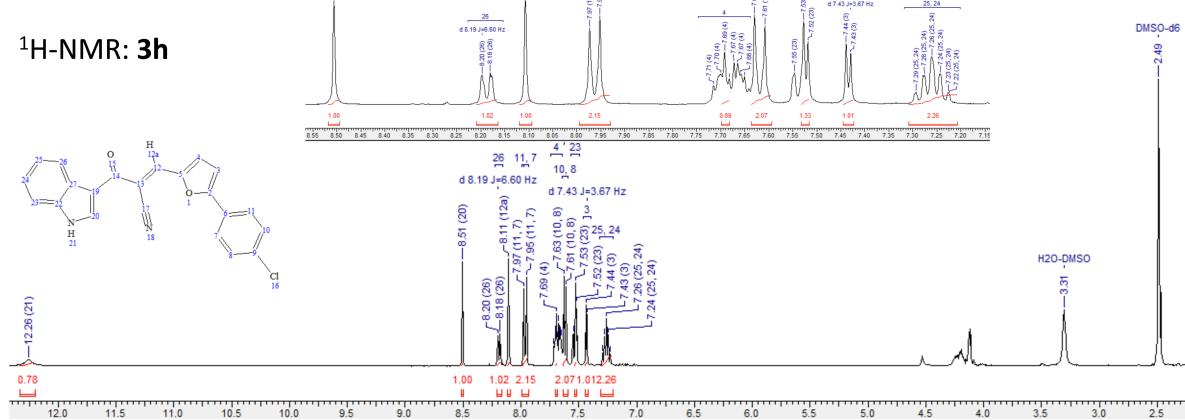


3h: (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-(5-(4-chlorophenyl)furan-2-yl)-acrylonitrile

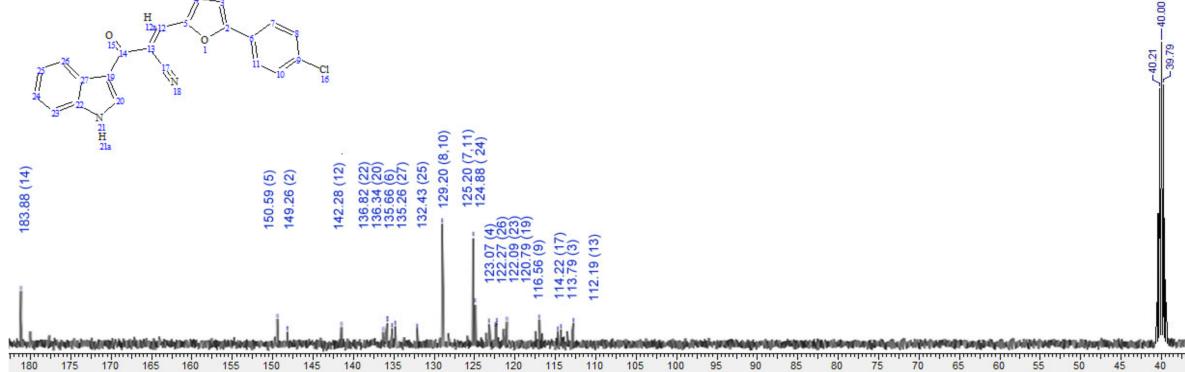
IR: **3h**

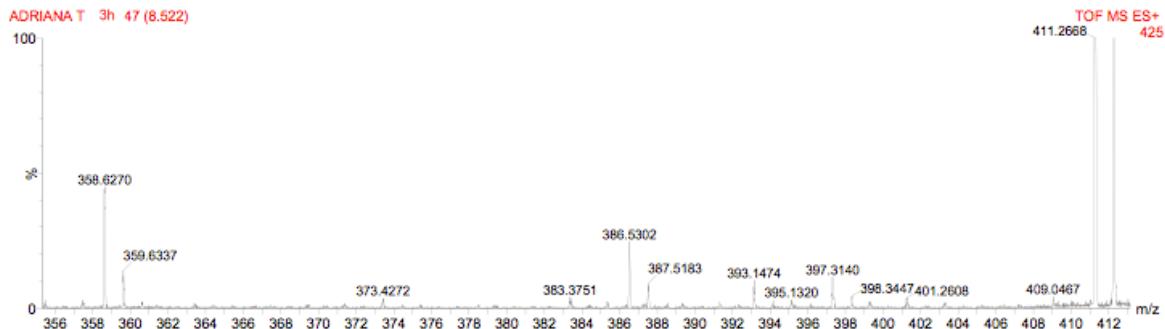


¹H-NMR: **3h**



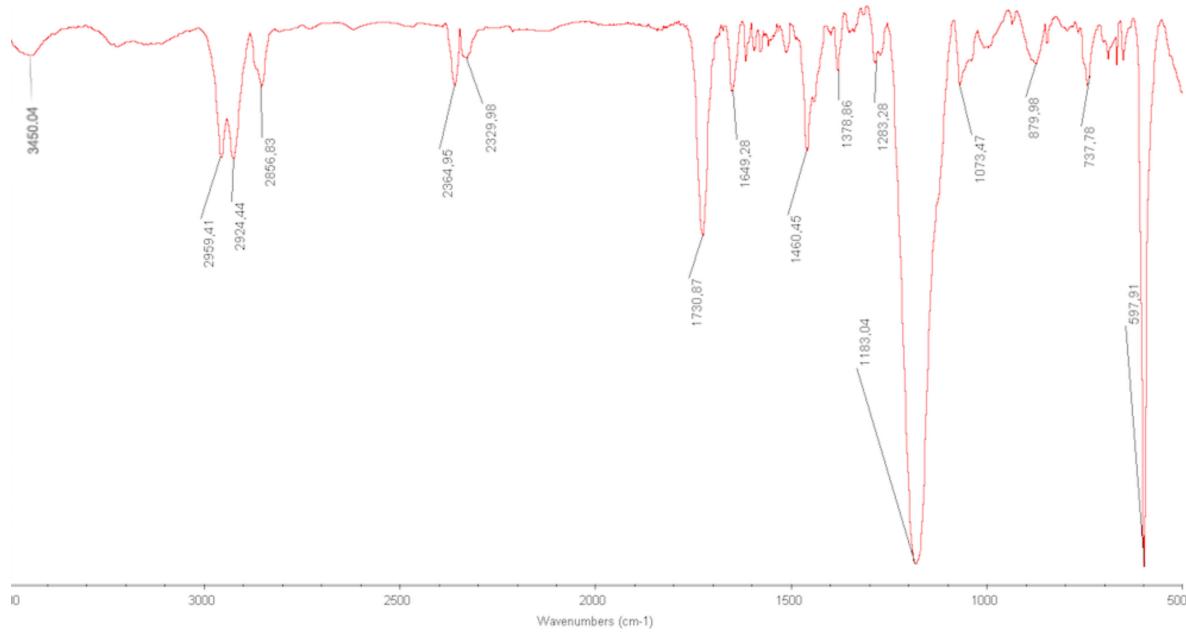
¹³C-NMR: **3h**





3i: (*E*)-2-(1*H*-indole-3-ylcarbonyl)-3-(4-oxo-4*H*-chromen-3-yl)-acrylonitrile

IR: **3i**



¹H-NMR: **3i**

