

Supplementary Material

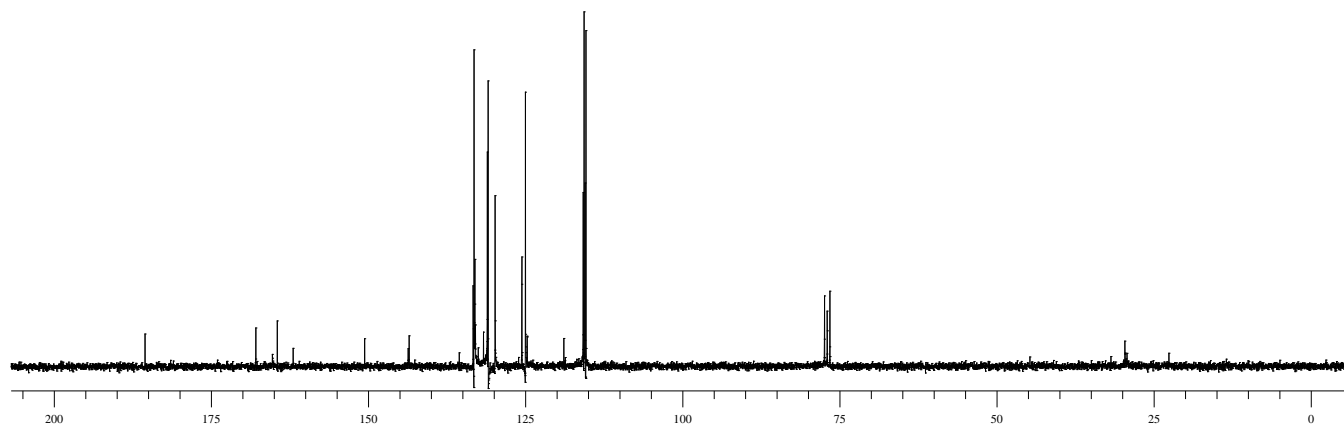
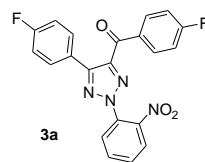
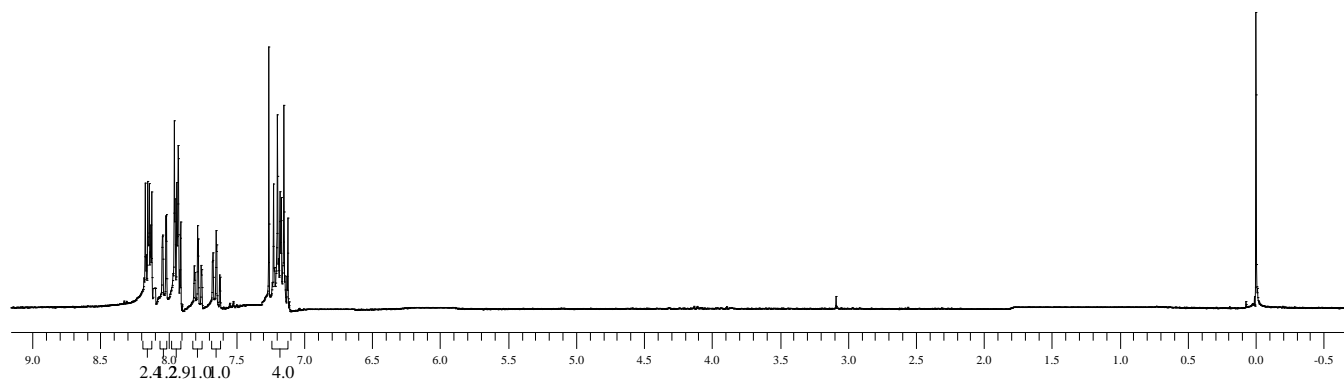
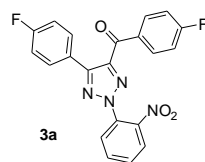
An Improved Iron-Mediated Synthesis of *N*-2-Aryl substituted 1,2,3-triazoles

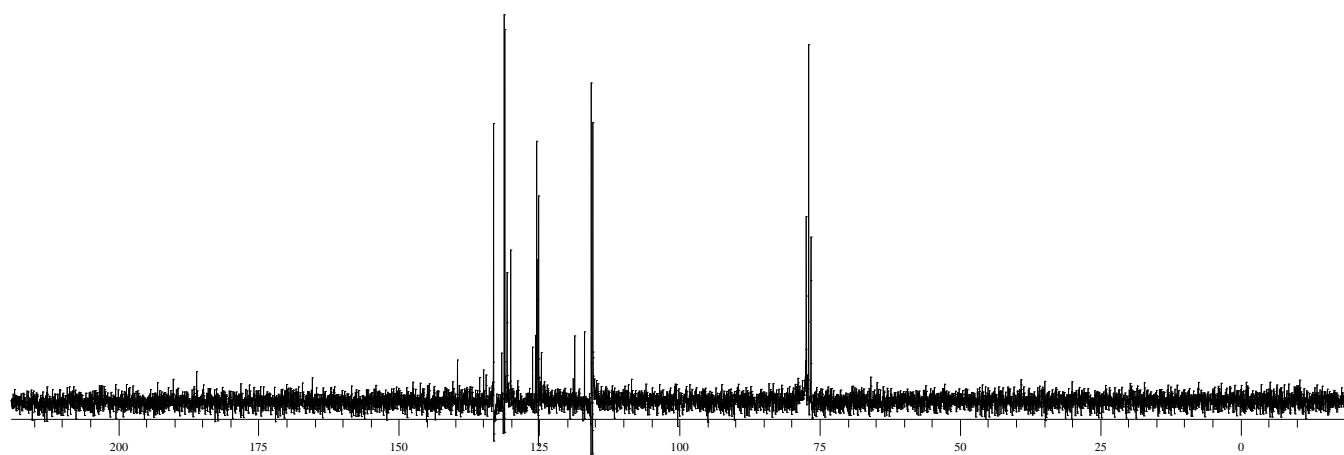
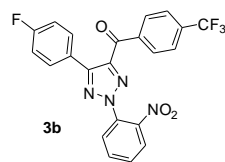
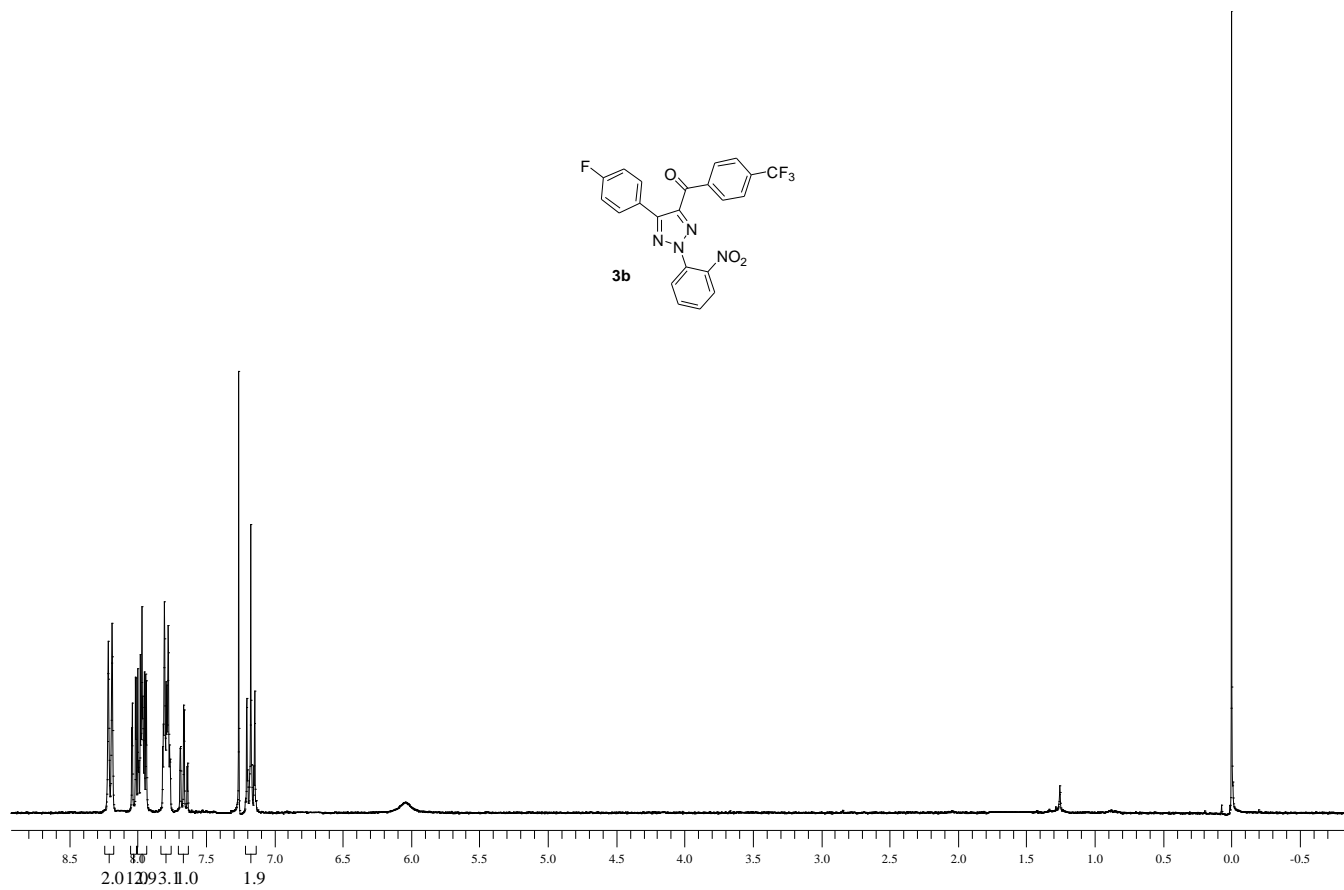
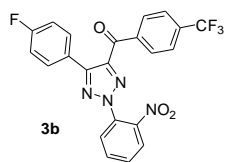
Ahmed Kamal* and Ponnampalli Swapna

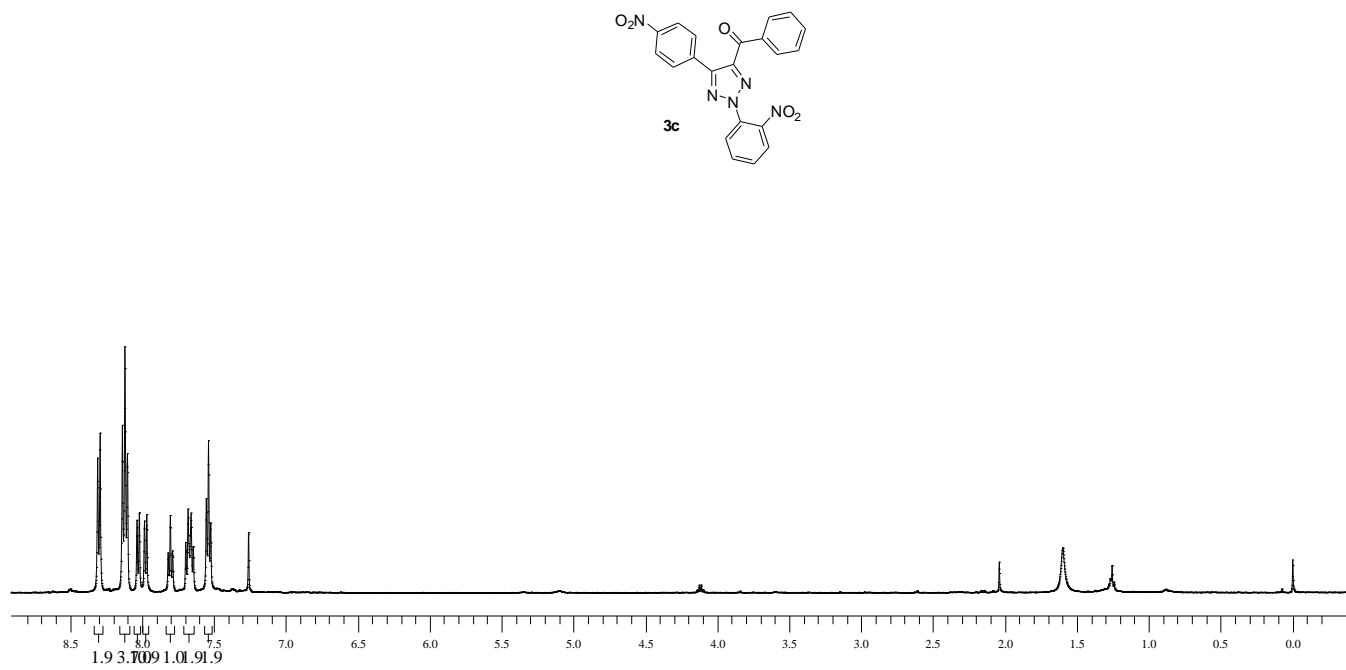
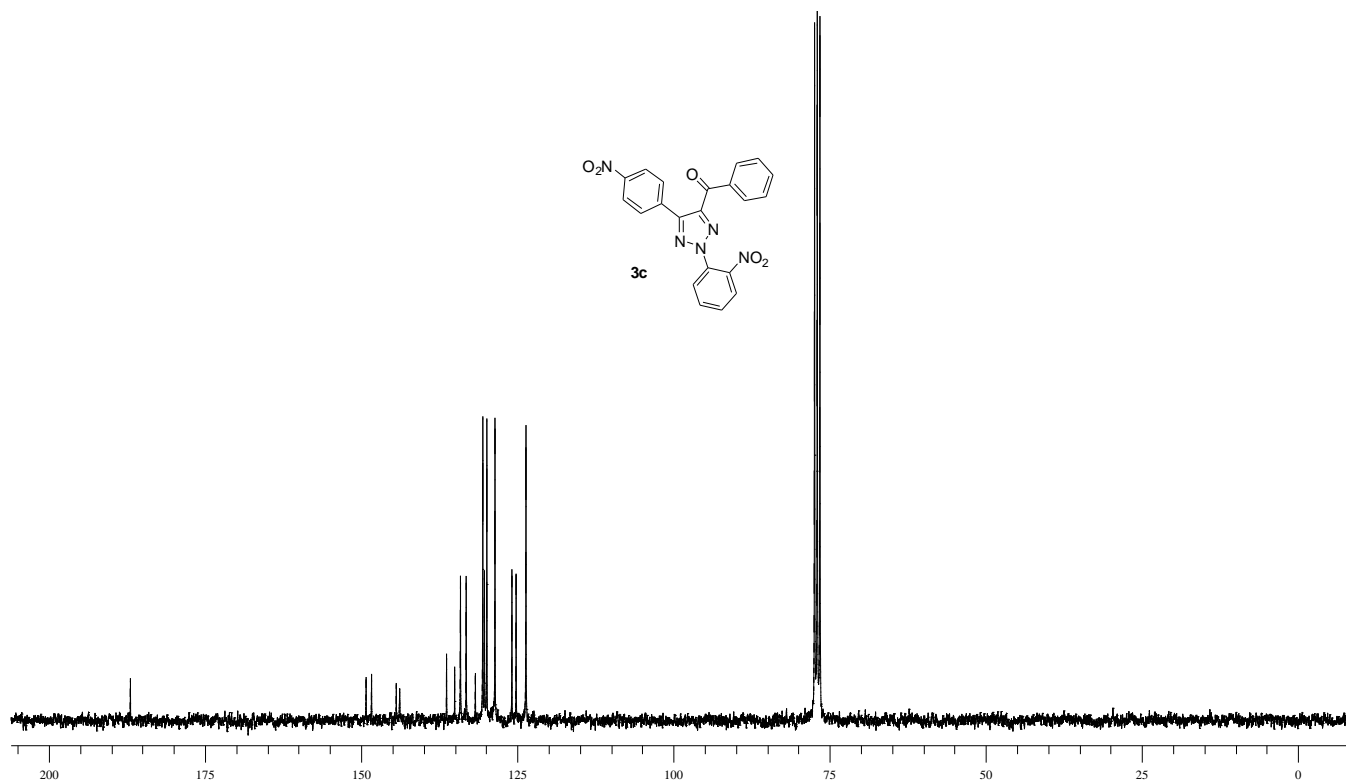
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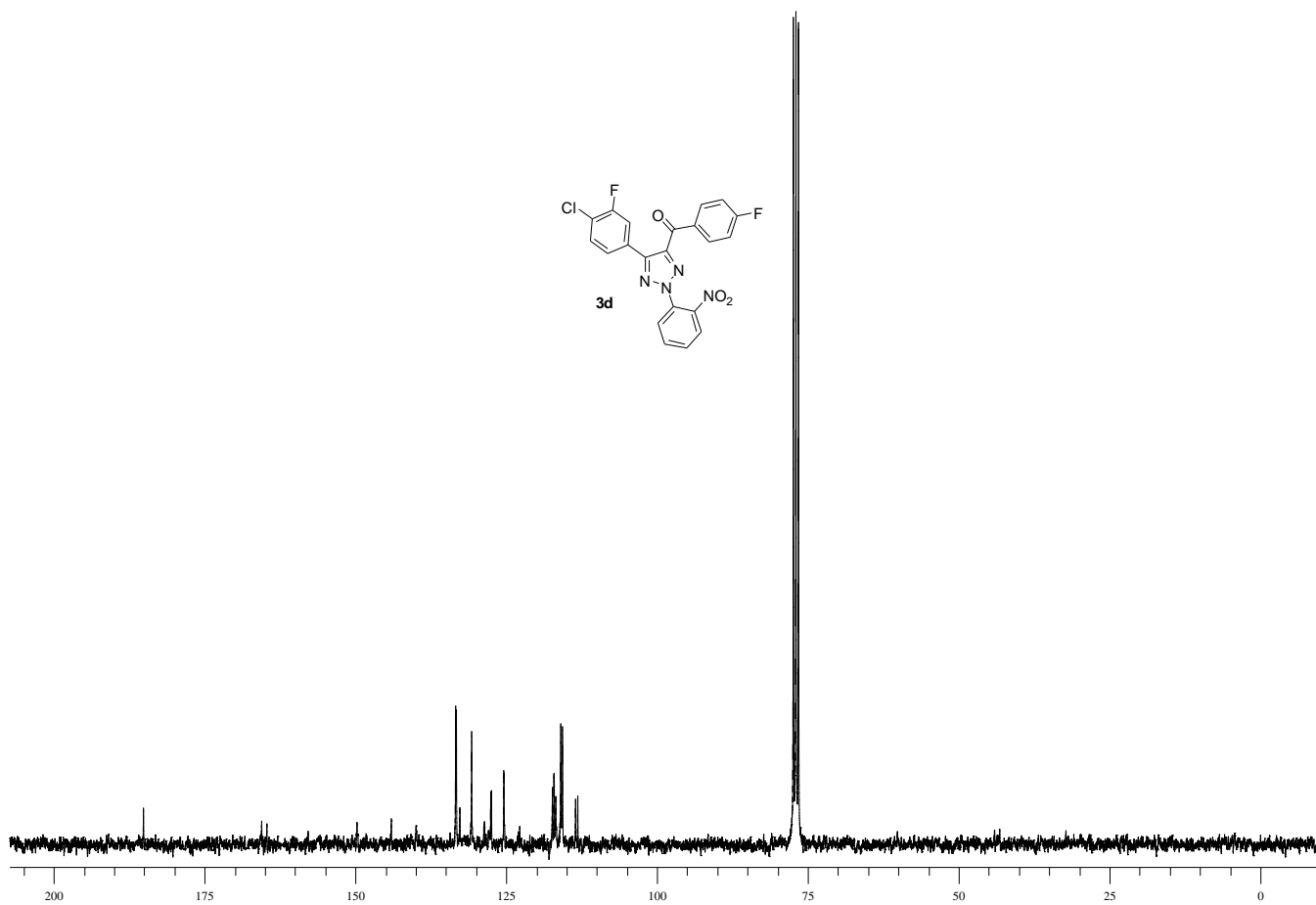
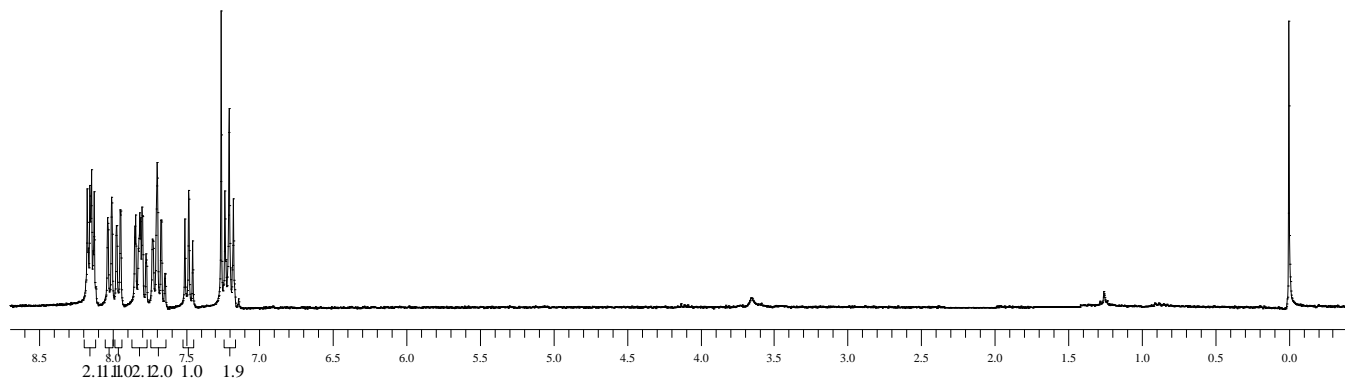
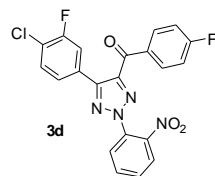
ahmedkamal@iict.res.in

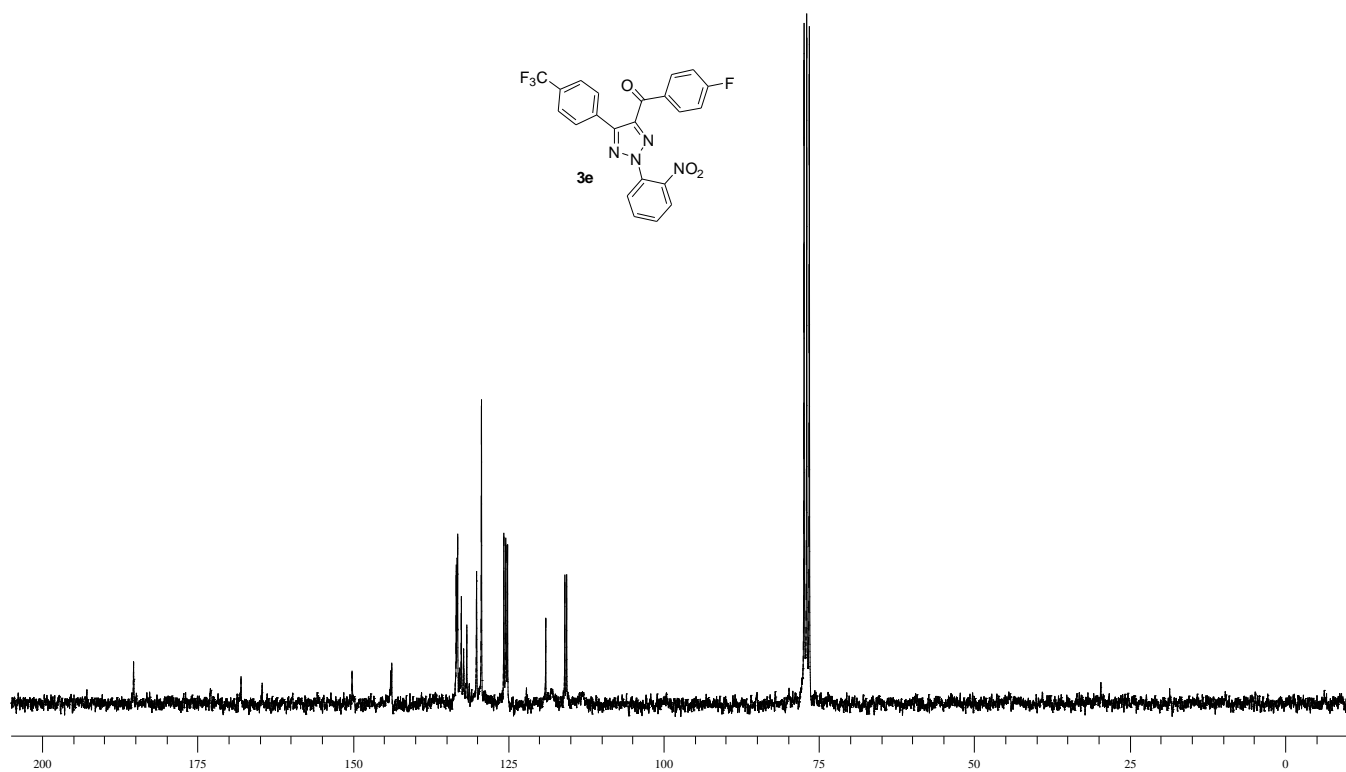
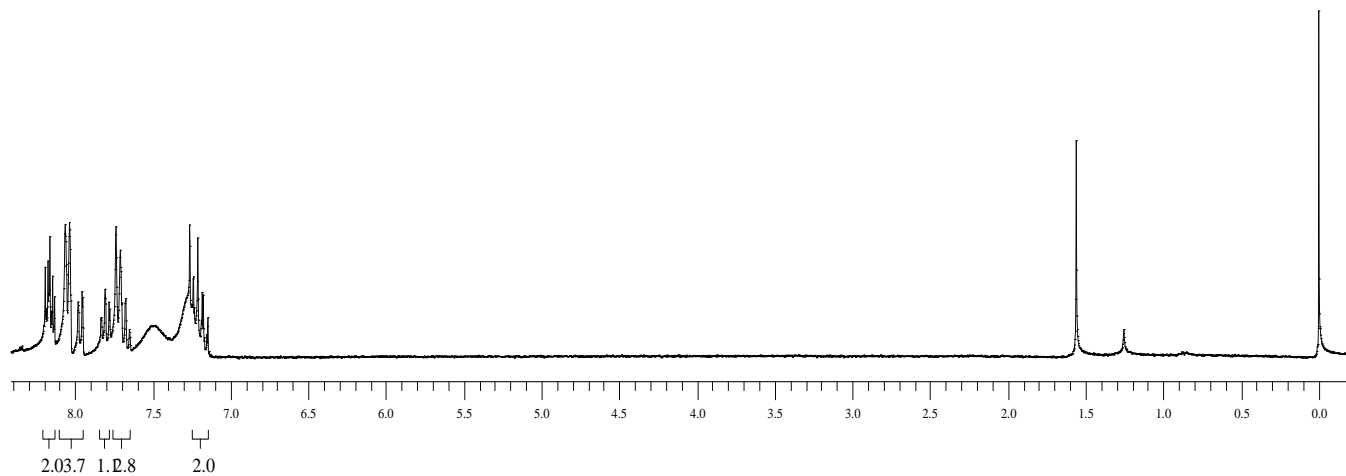
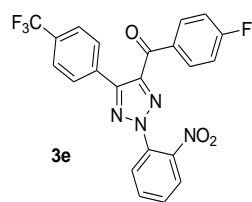
^1H and ^{13}C NMR spectra of the compounds (3a-s)

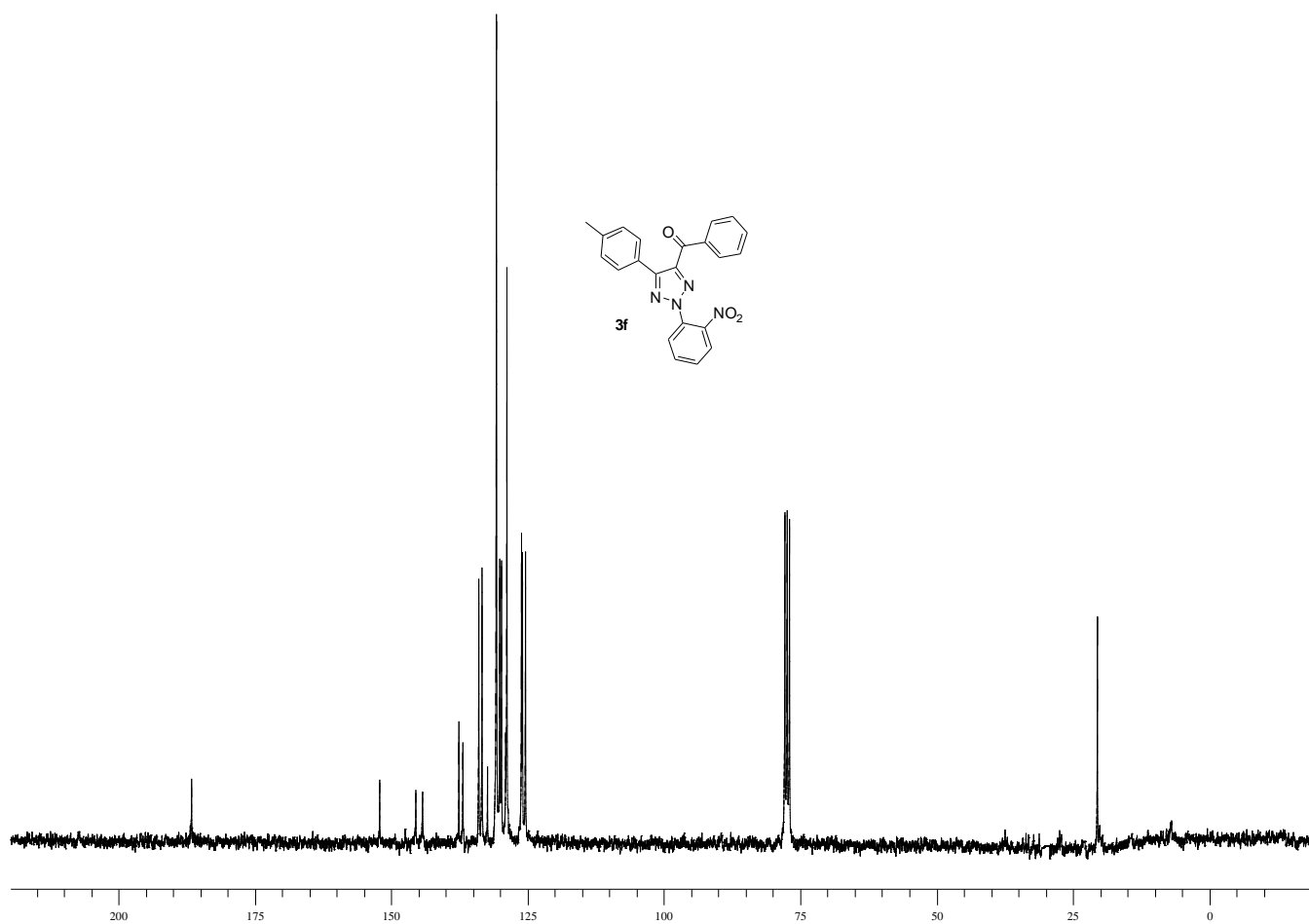
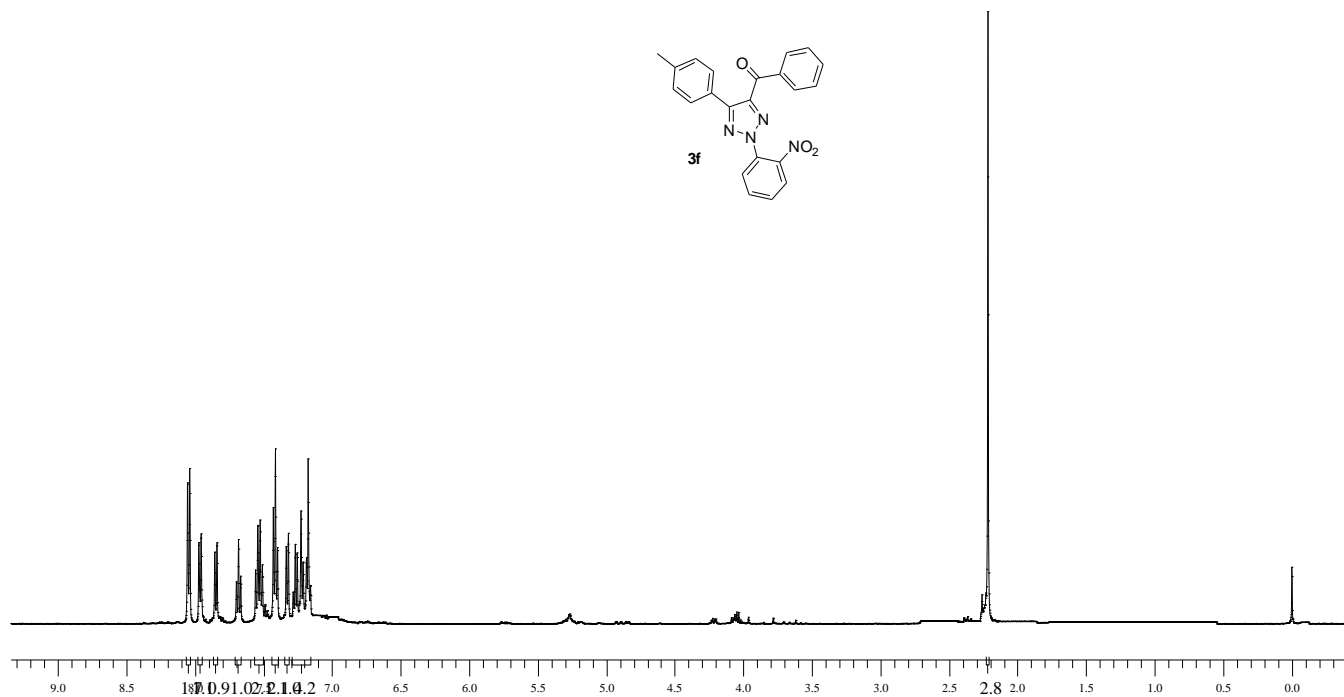


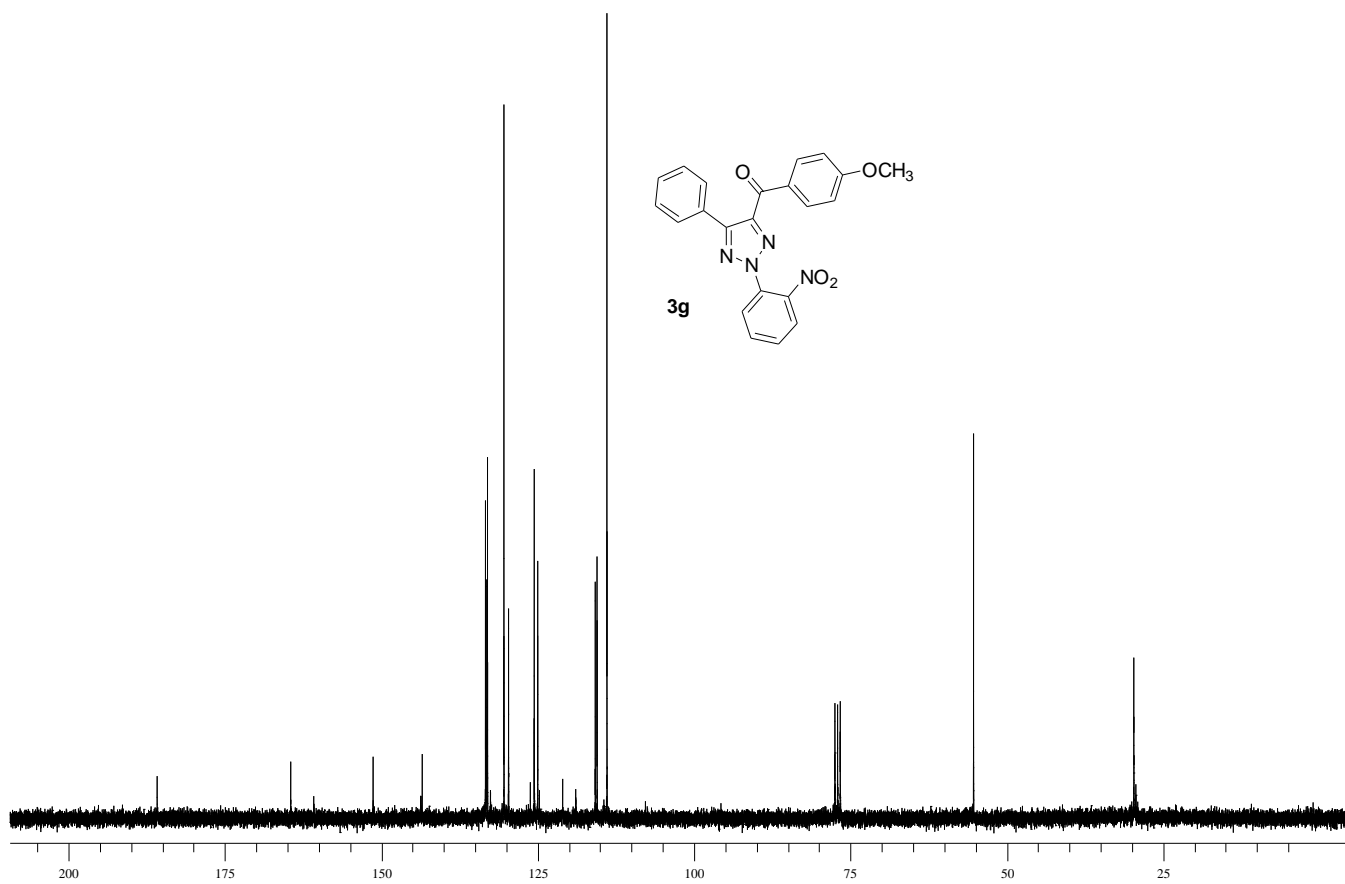
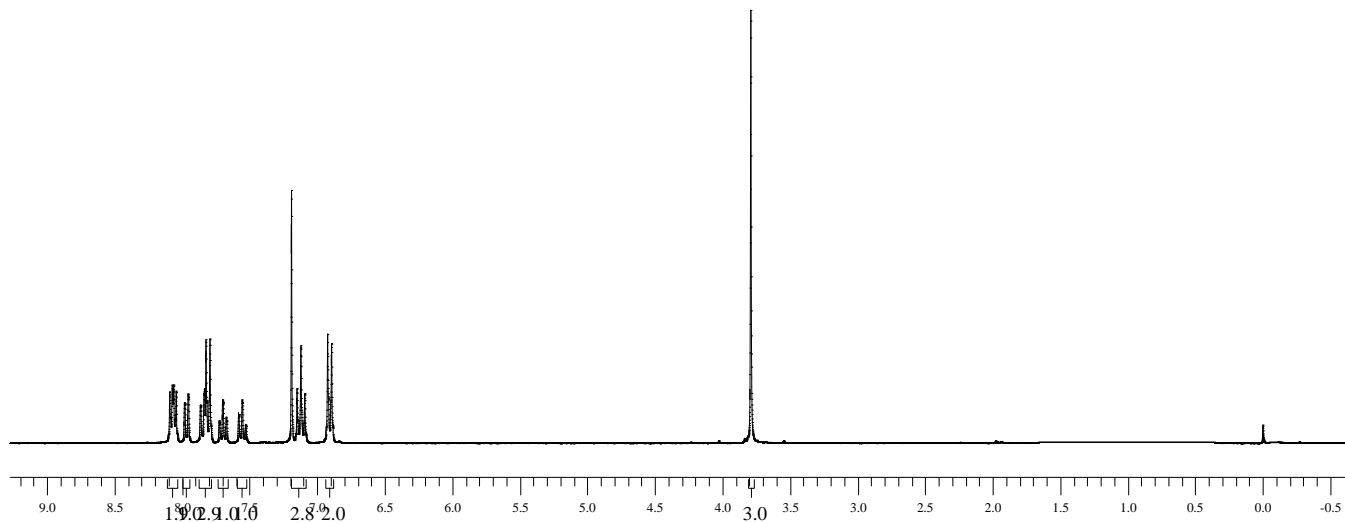
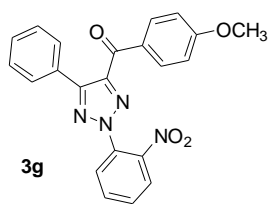


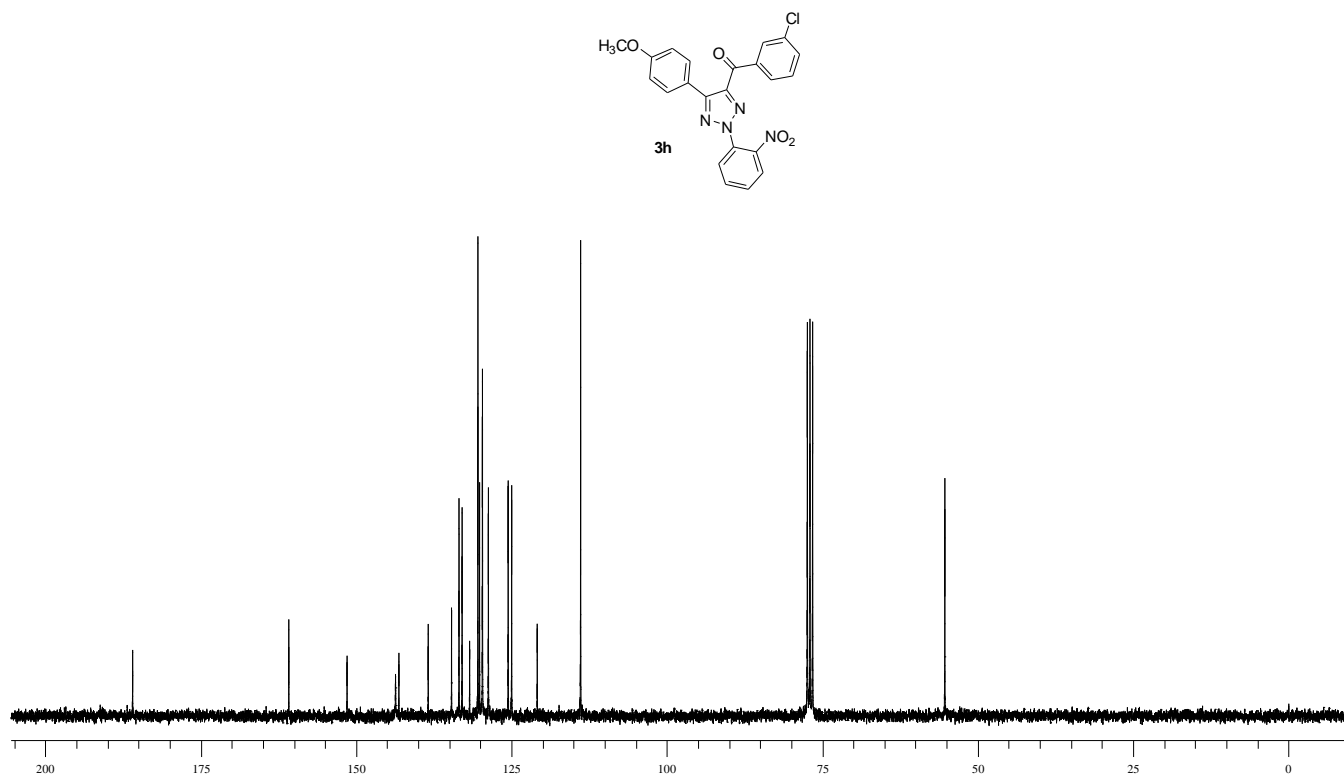
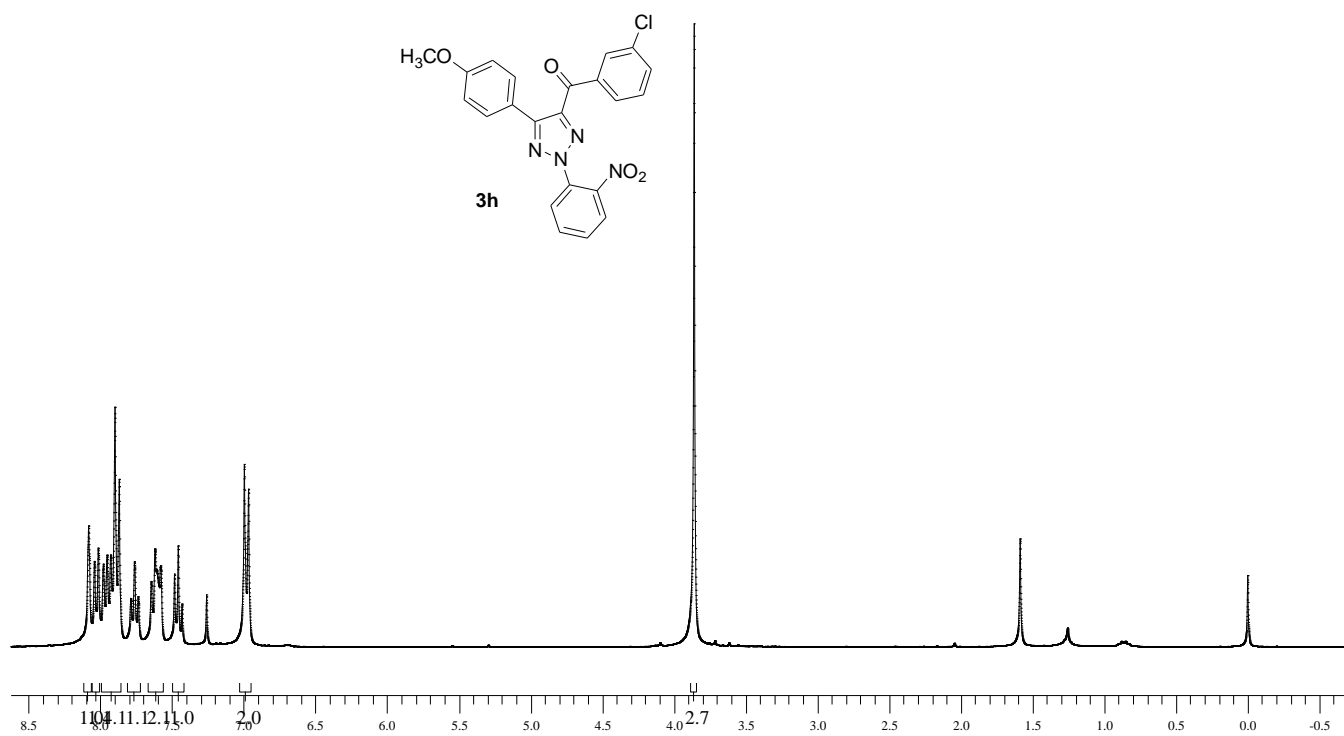


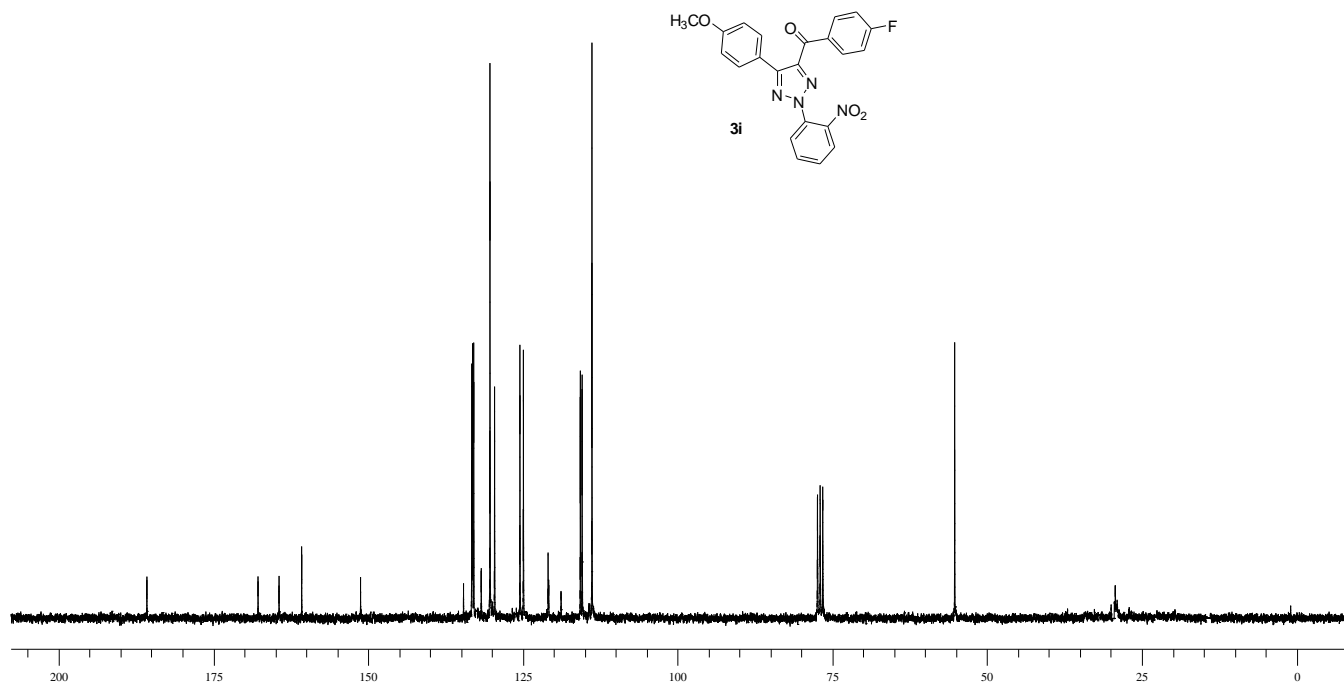
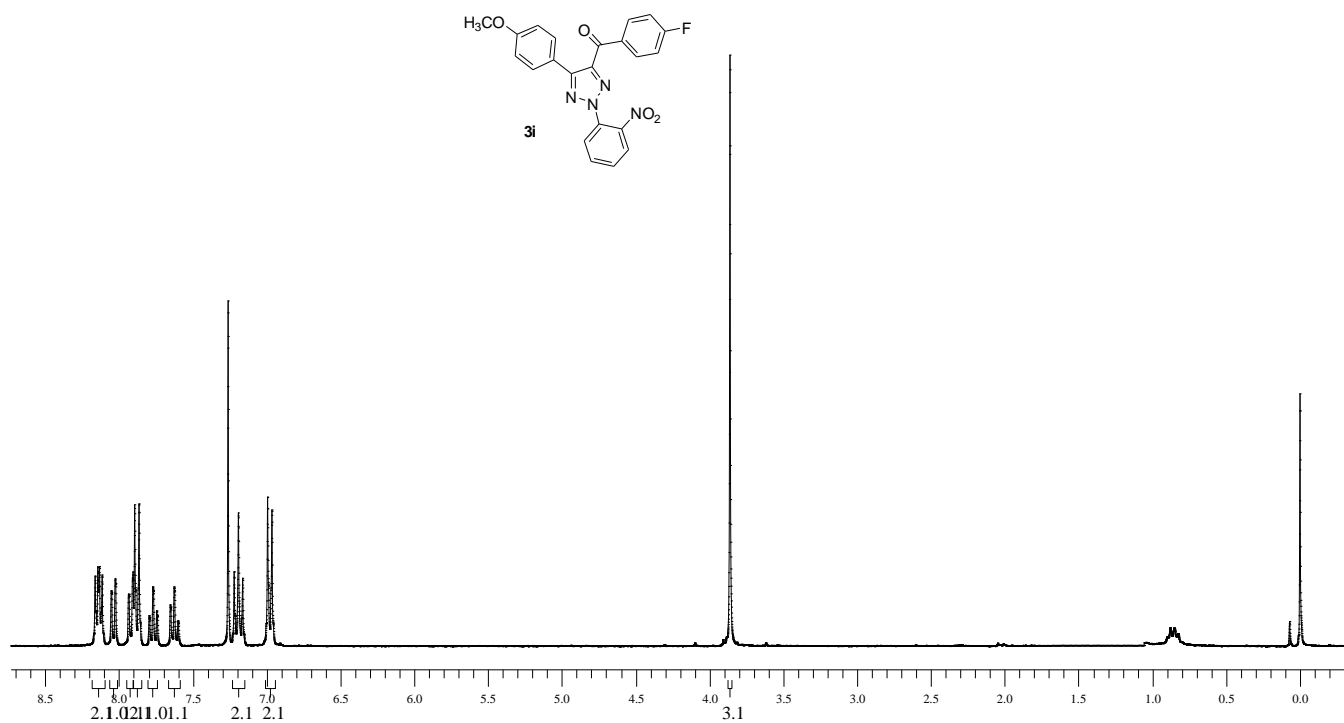


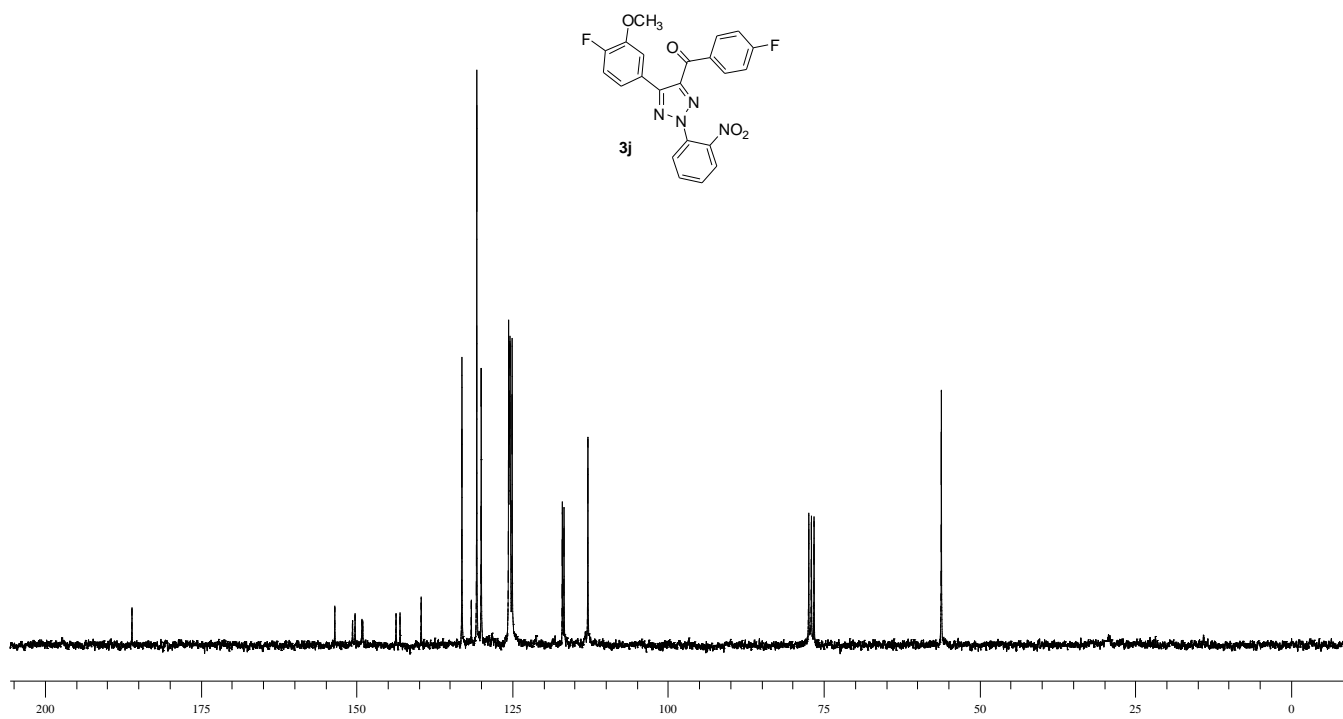
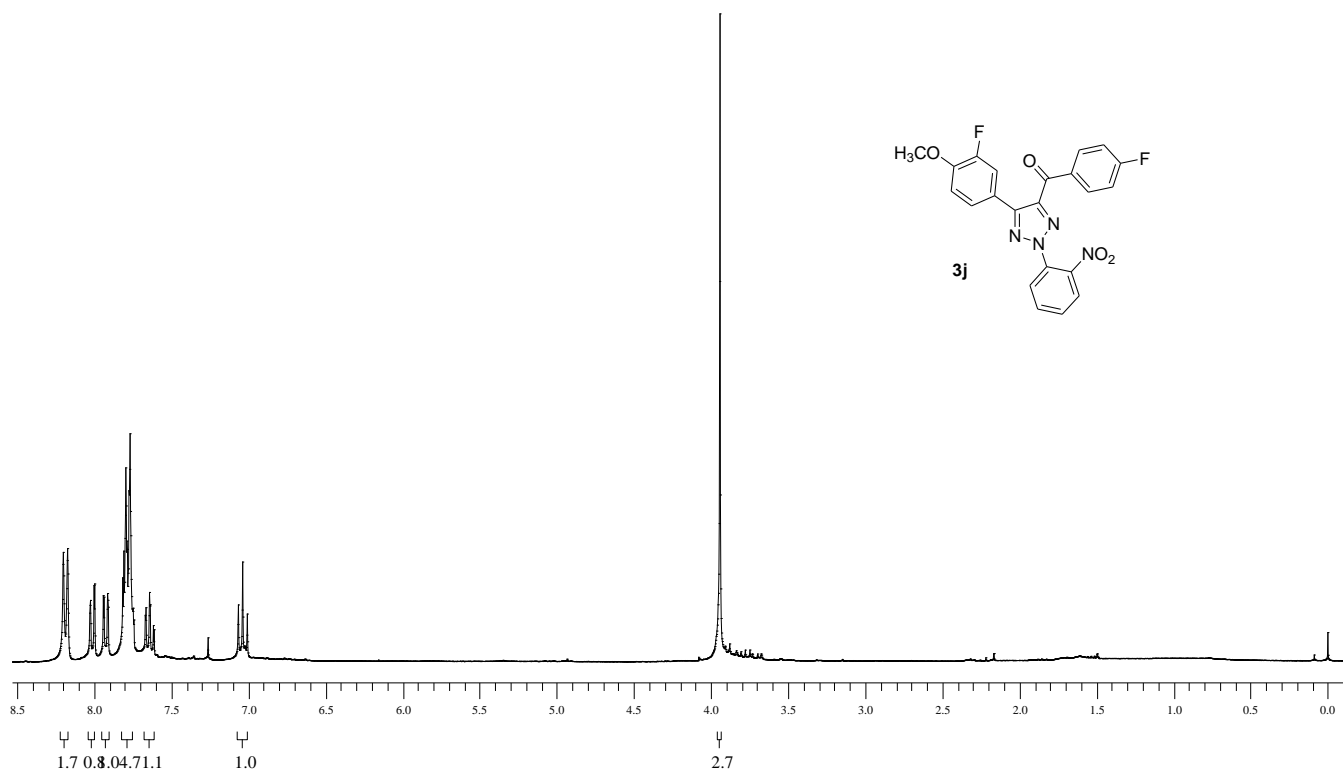


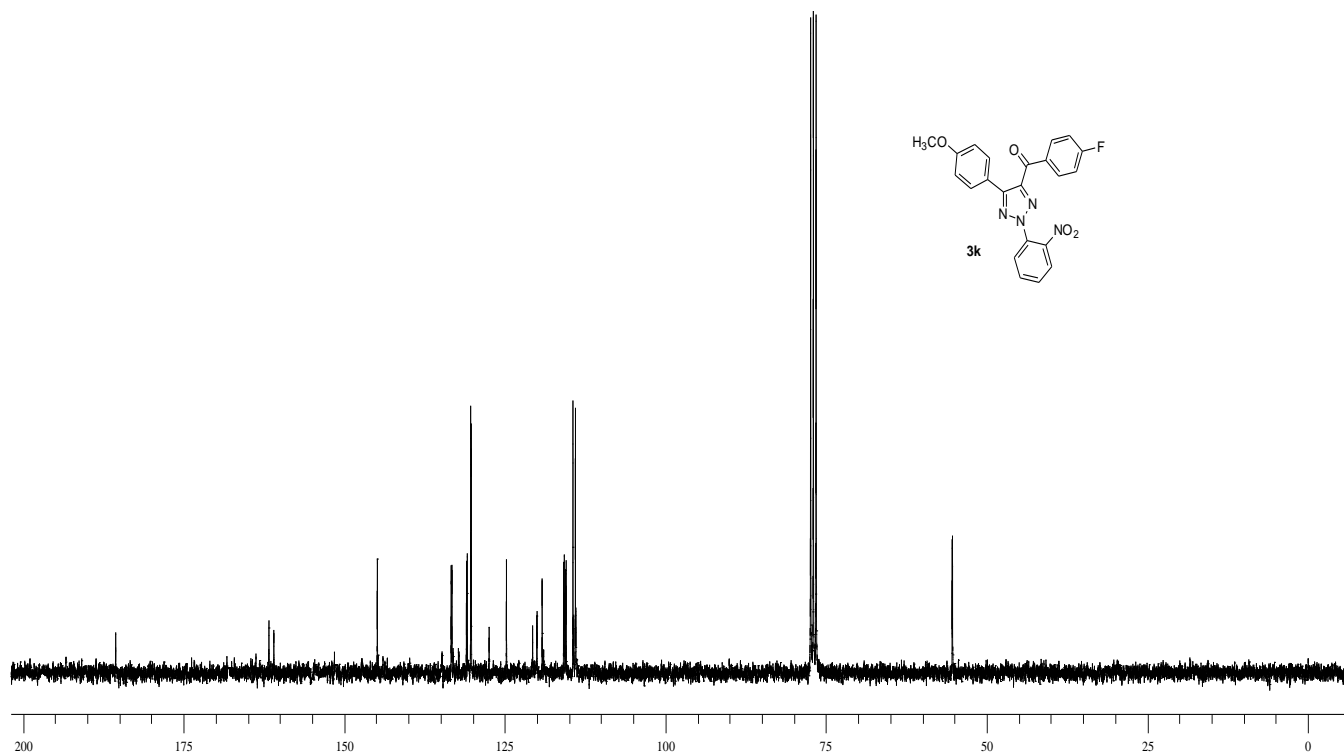
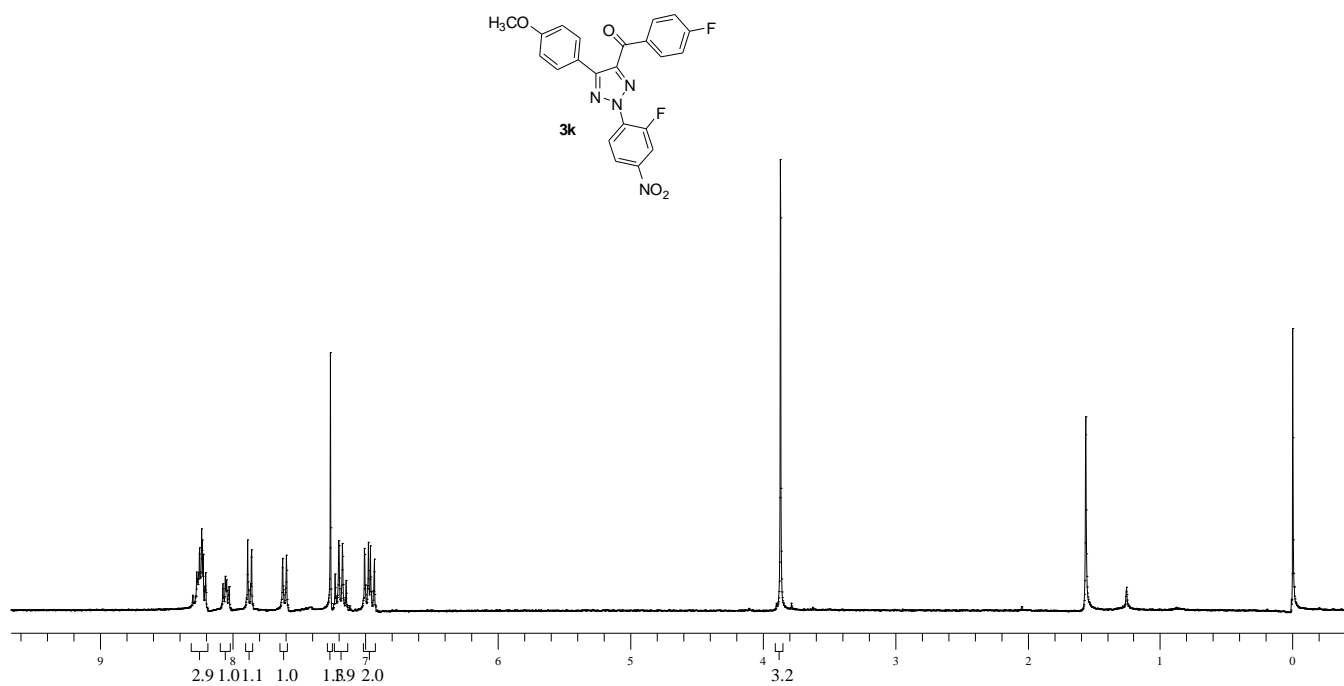


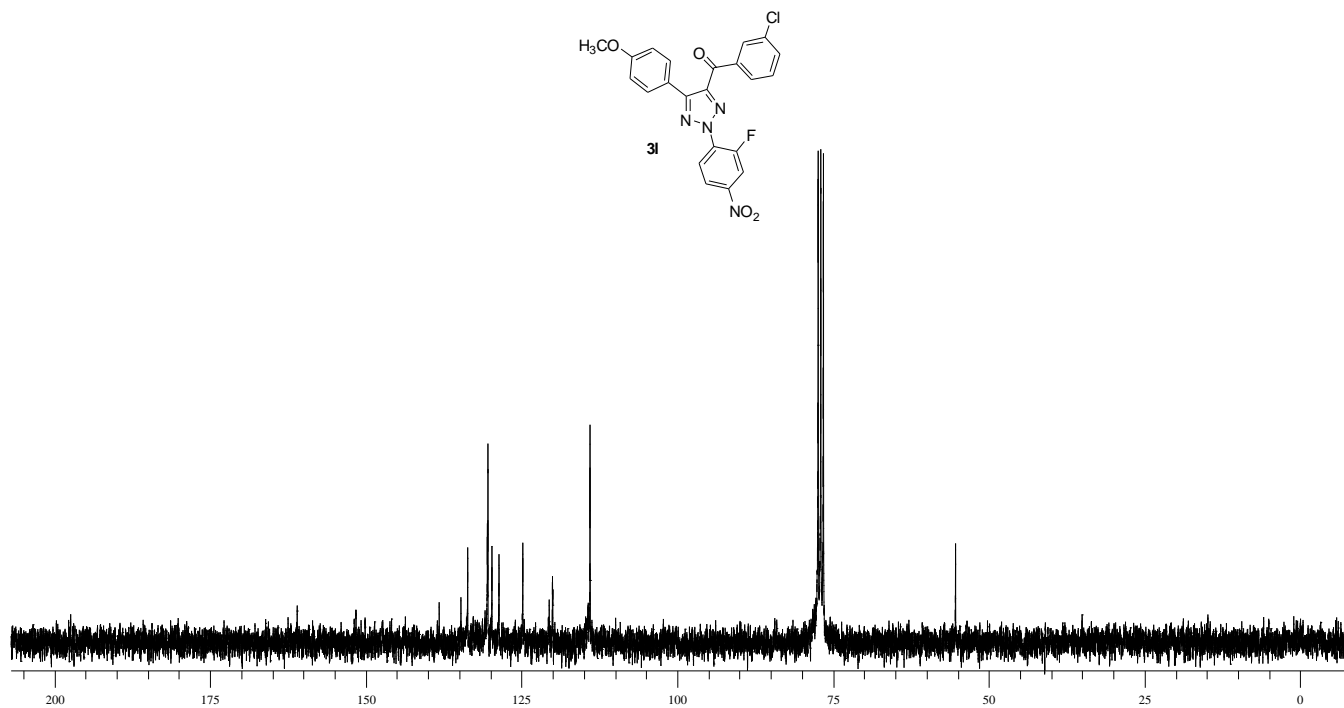
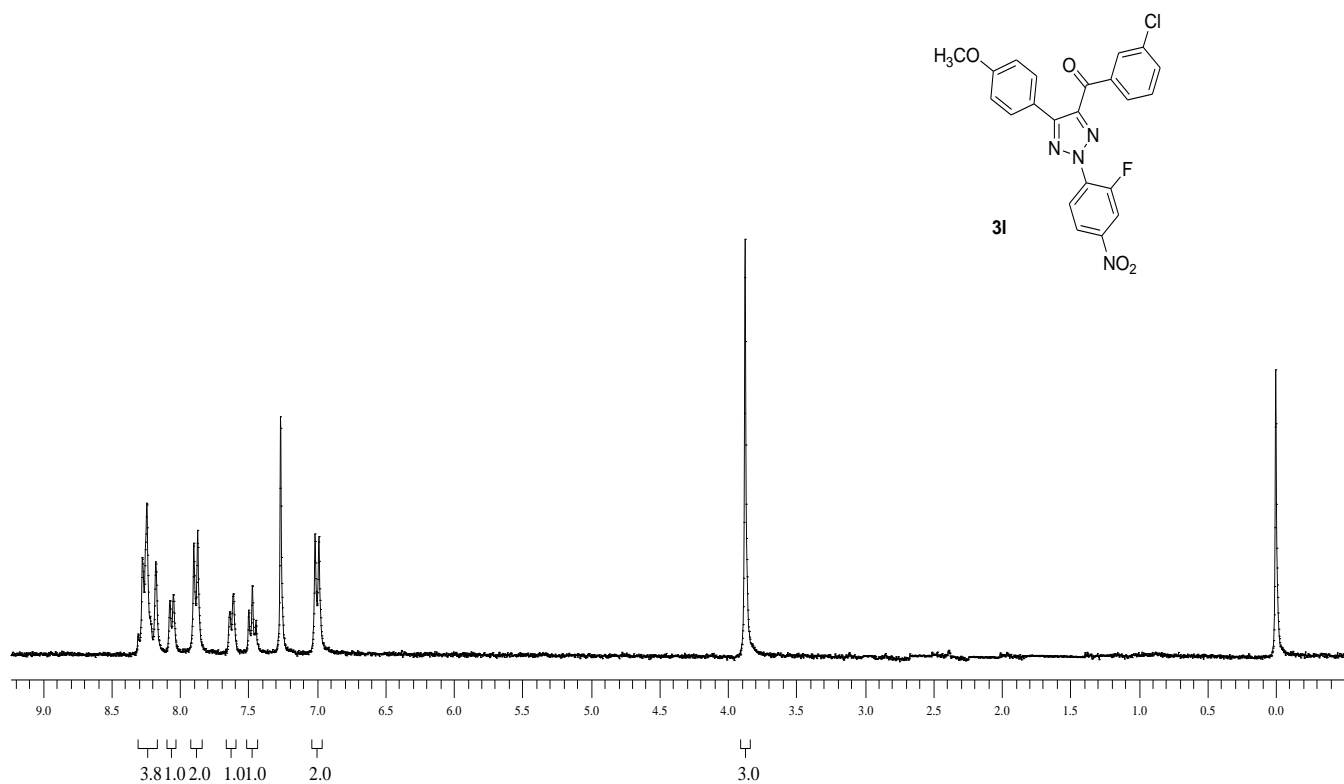


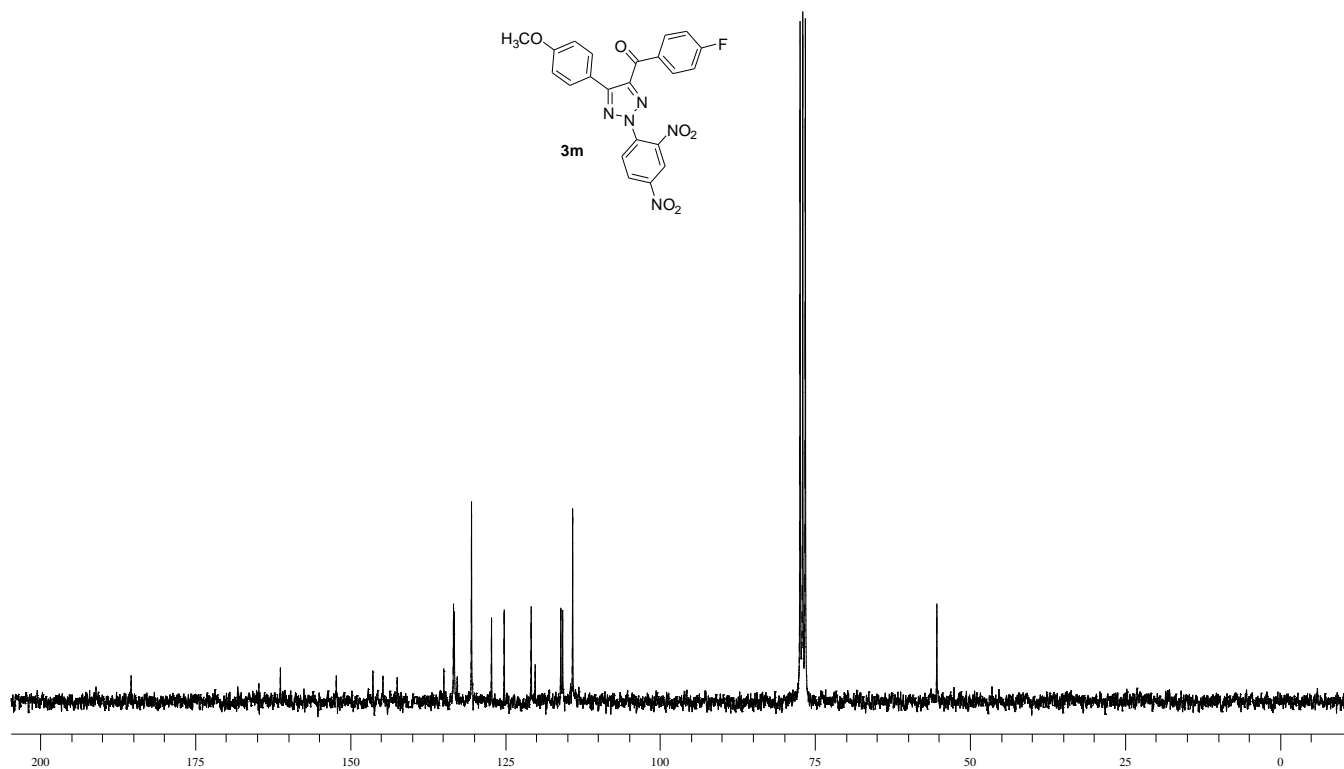
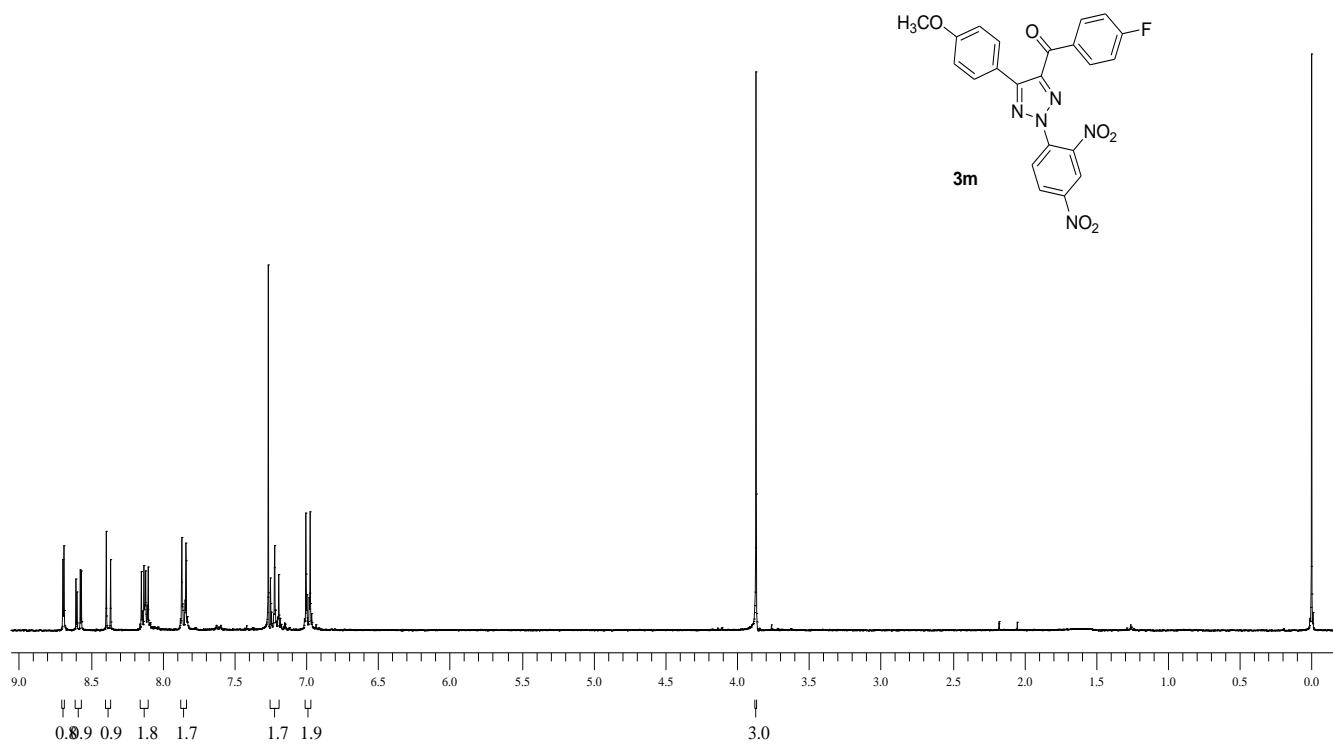


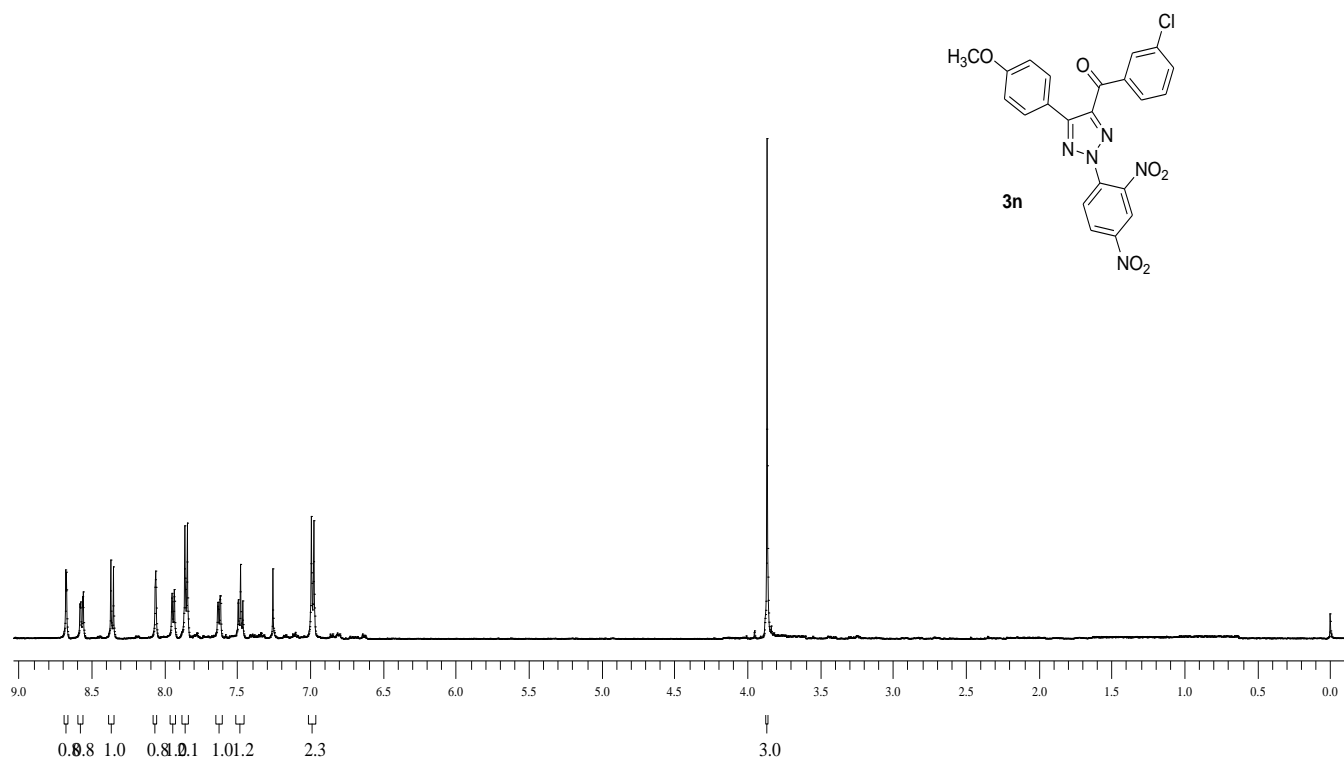


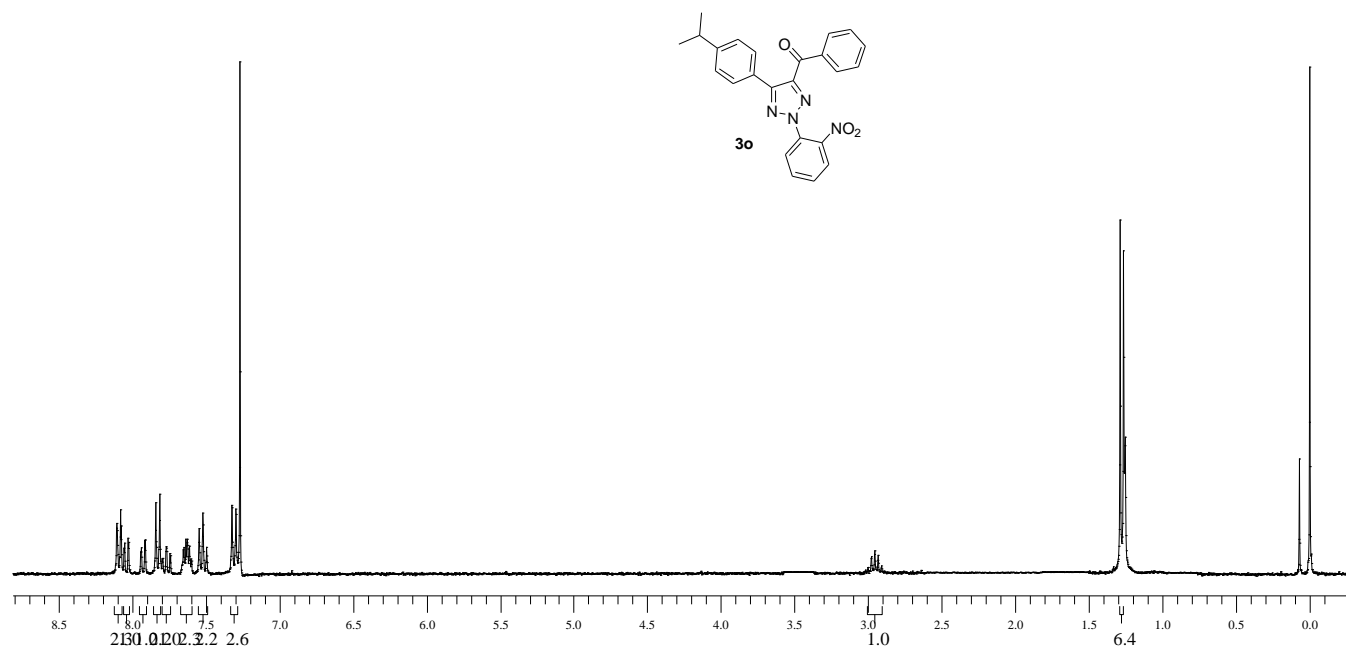
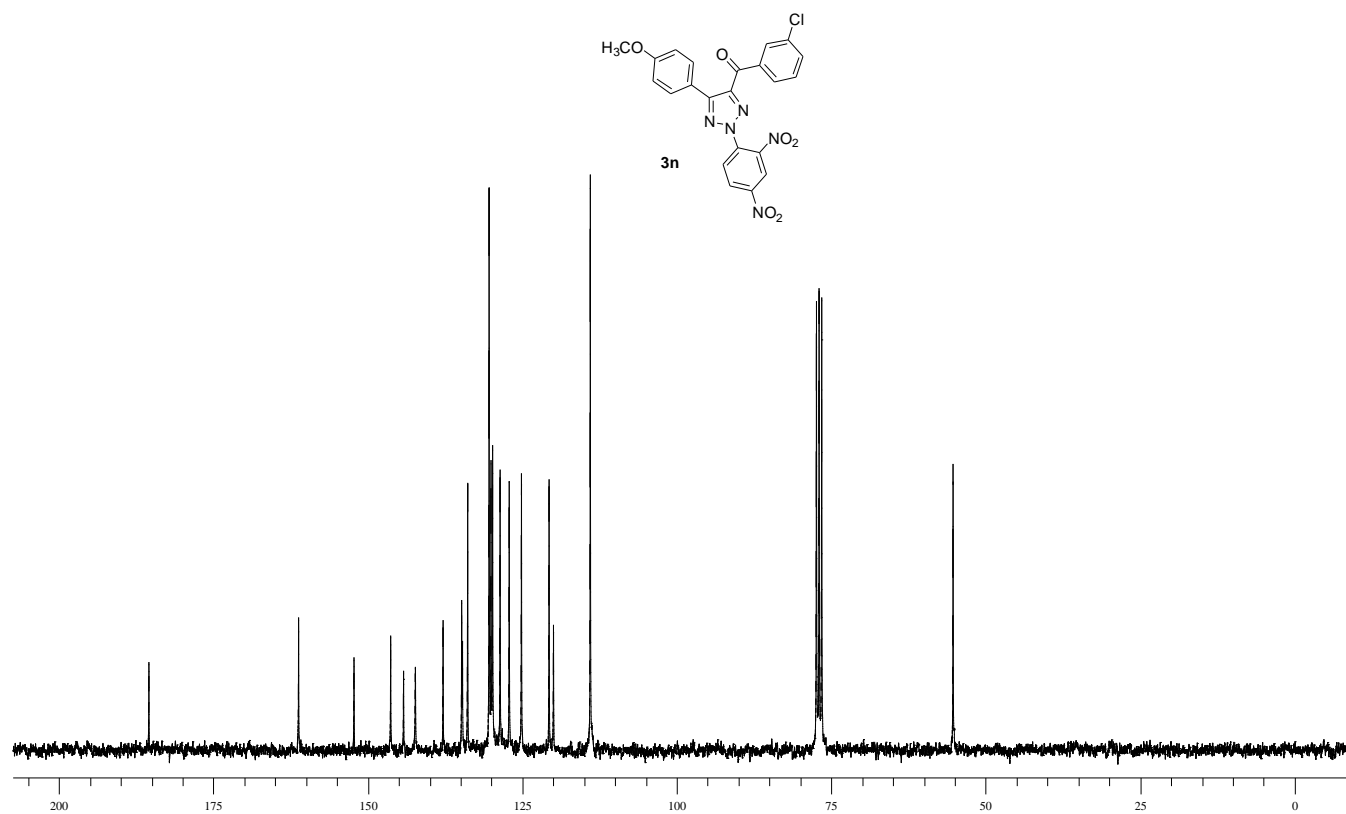


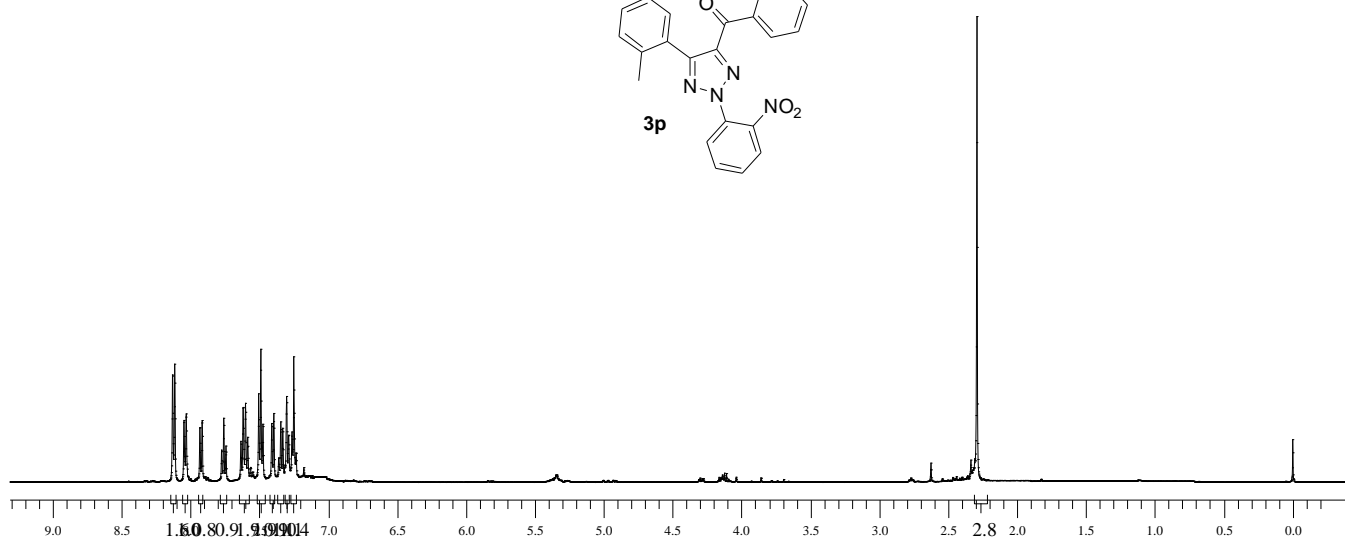
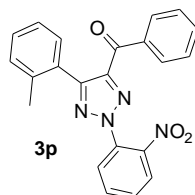
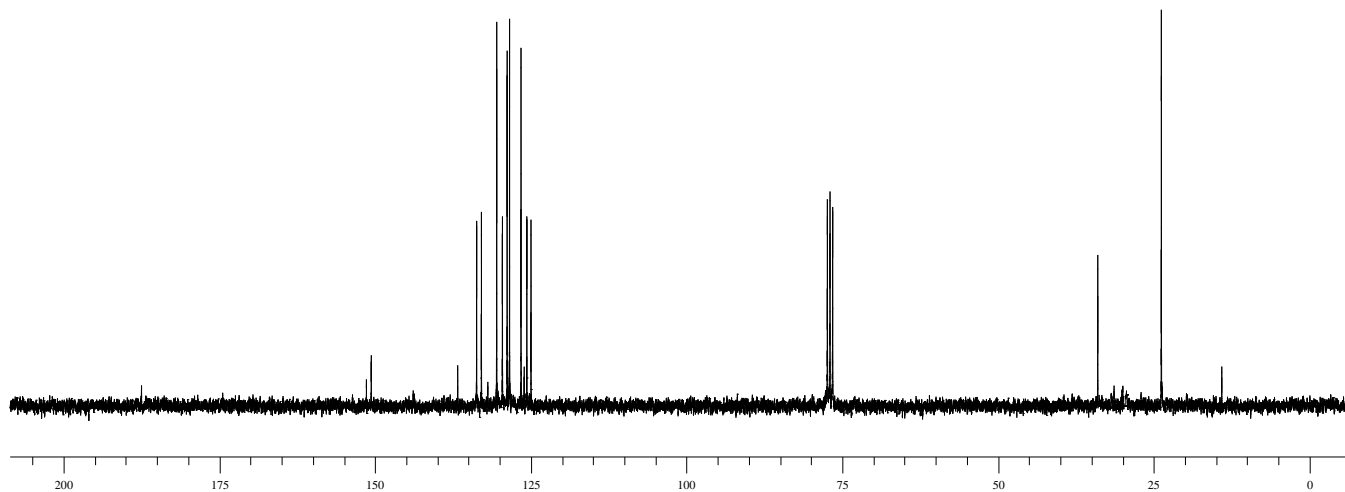
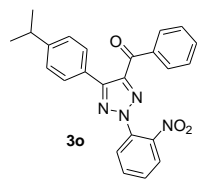


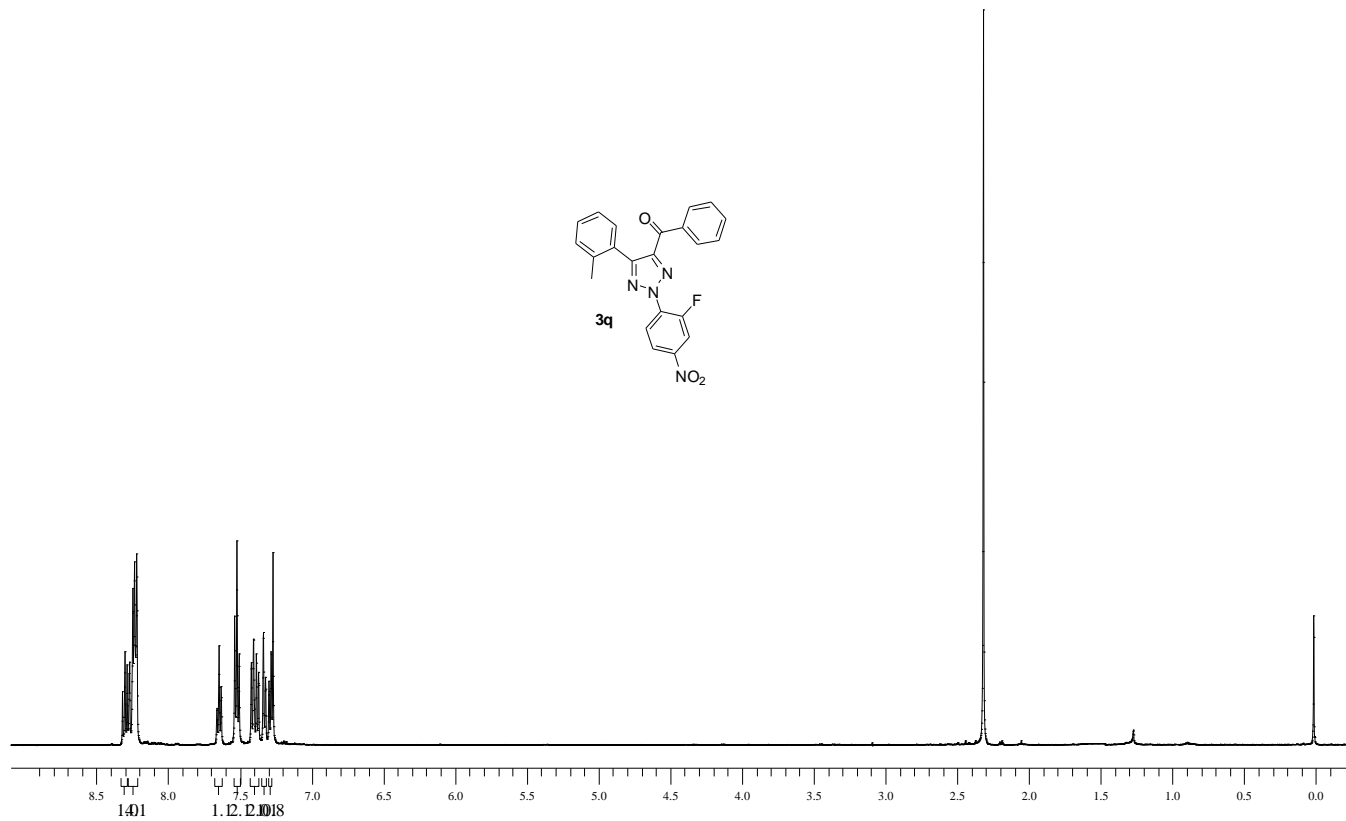
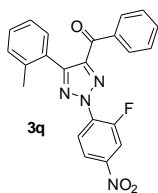
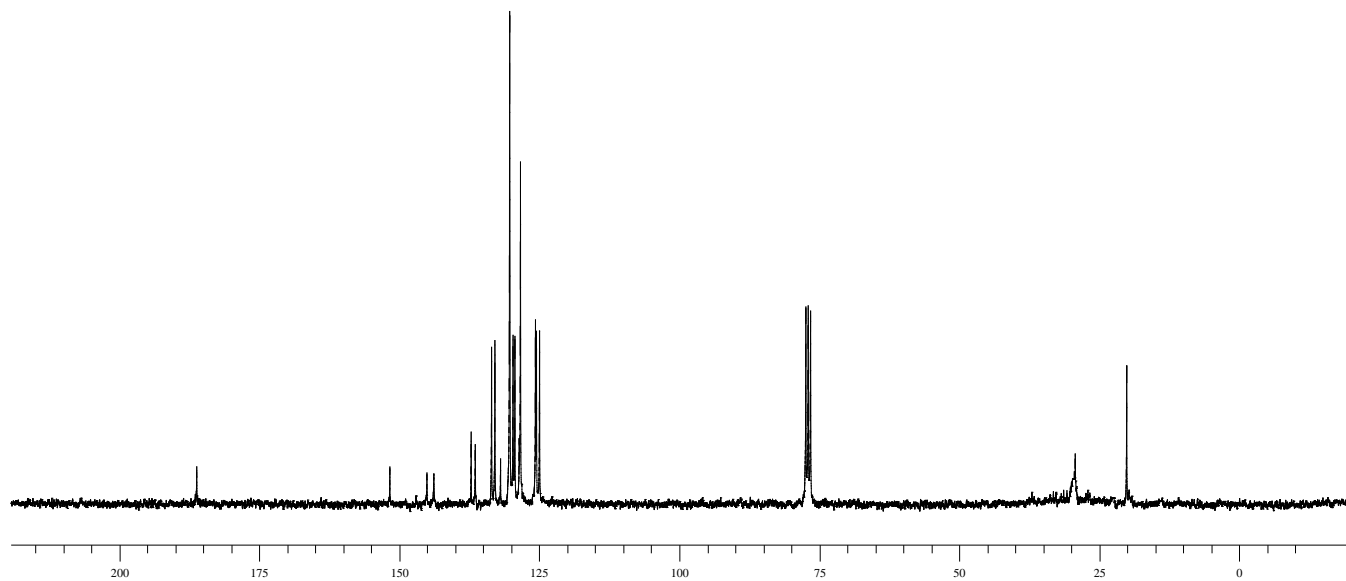
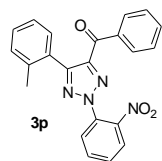


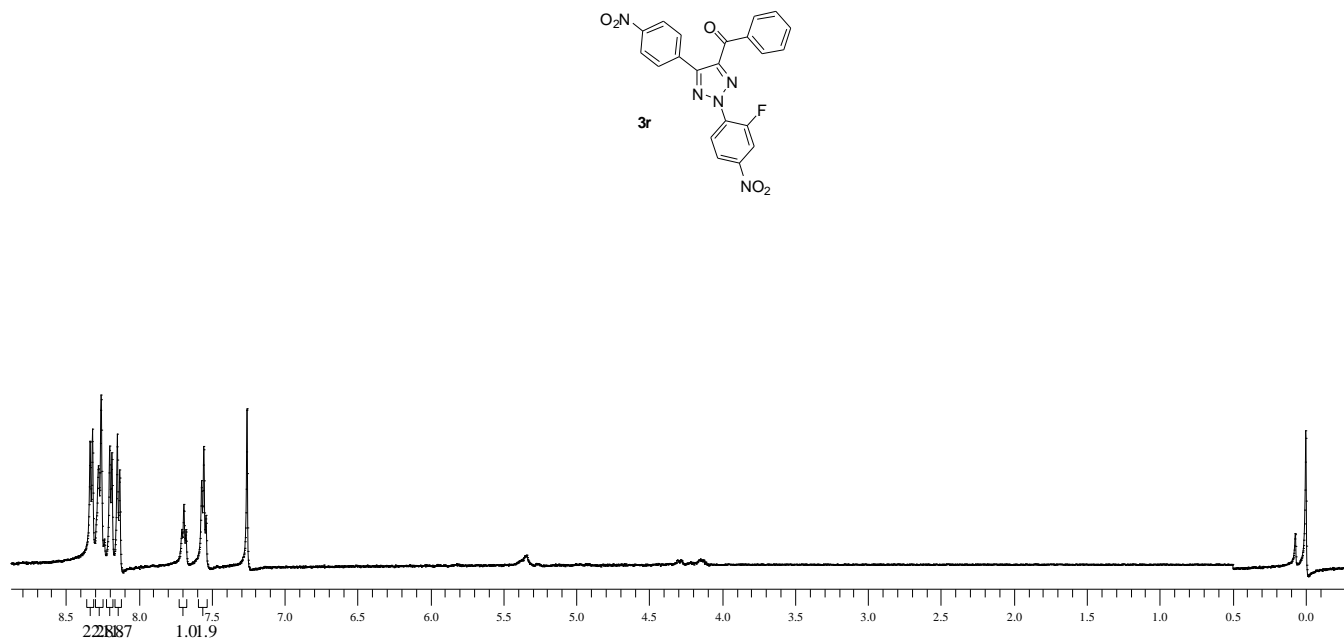
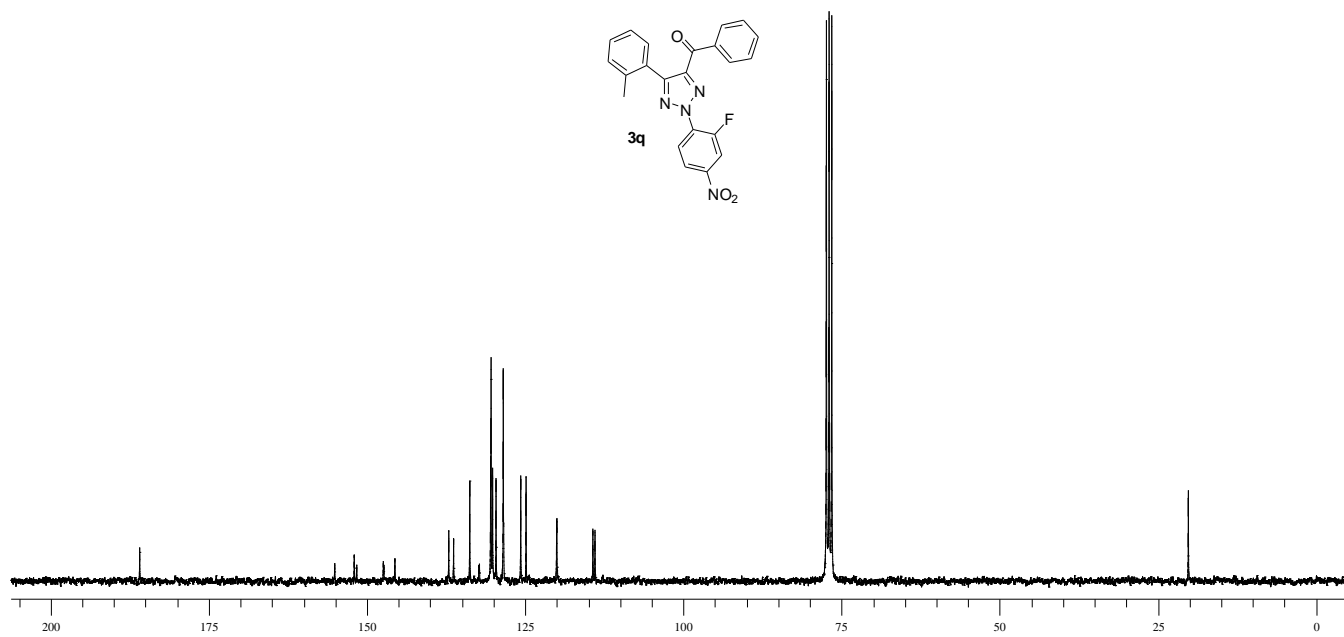


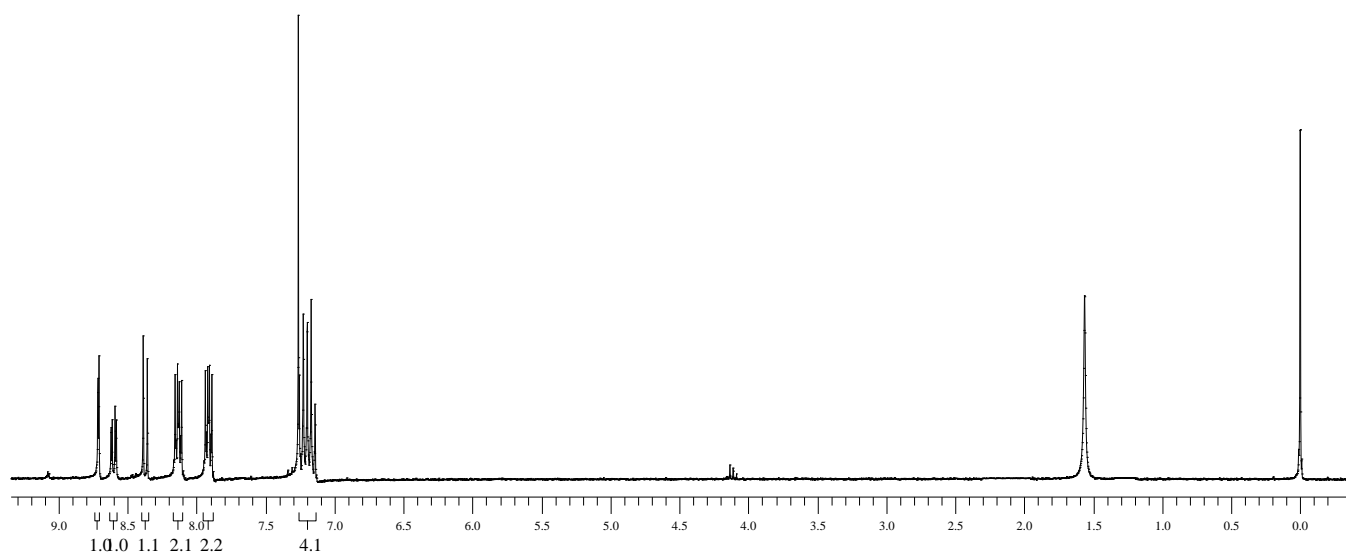
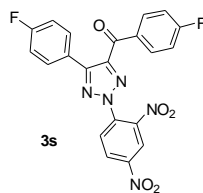
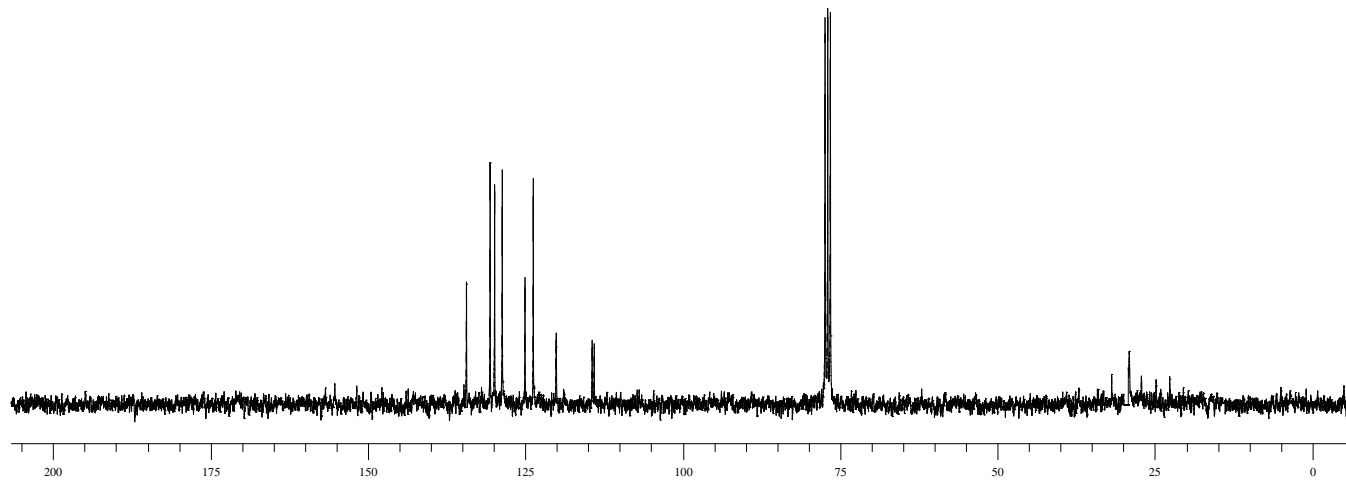
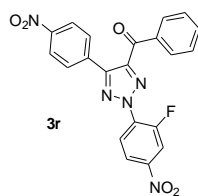


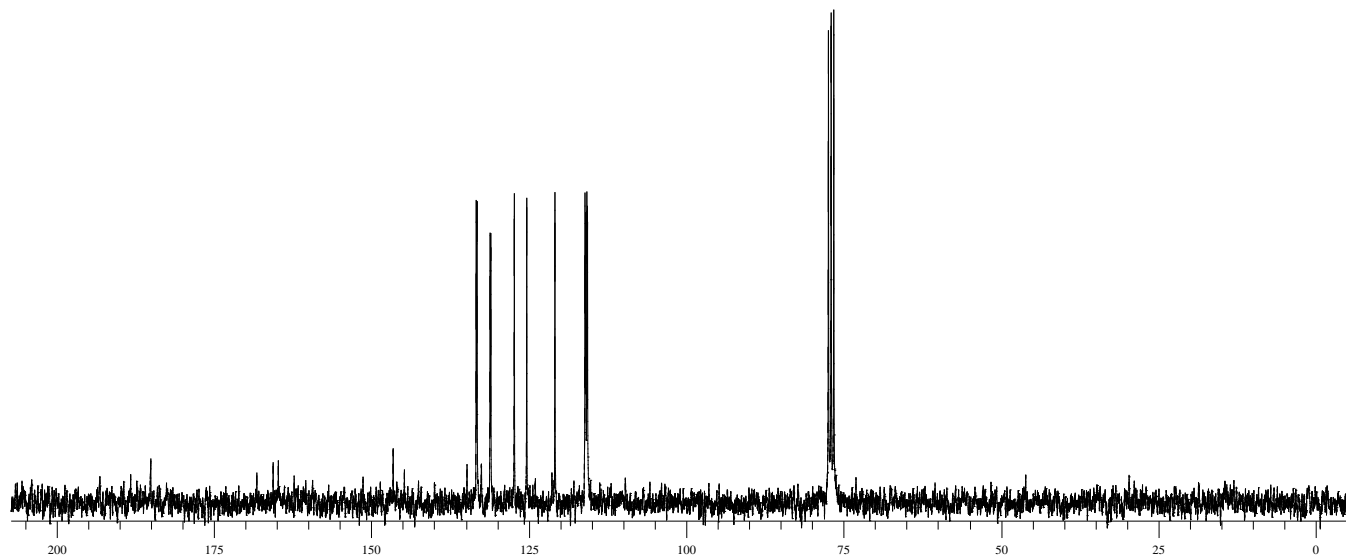
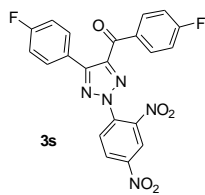












Powder X-ray diffraction spectra of the Fe₂O₃ nanoparticles

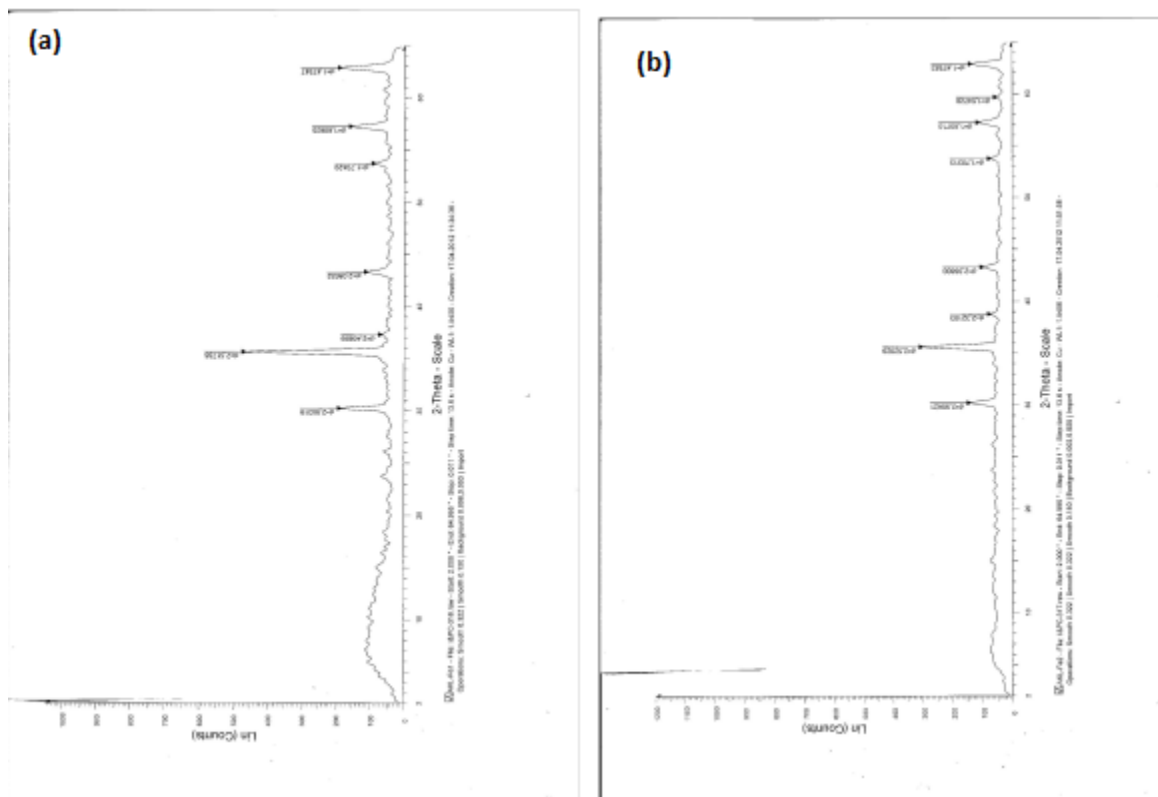
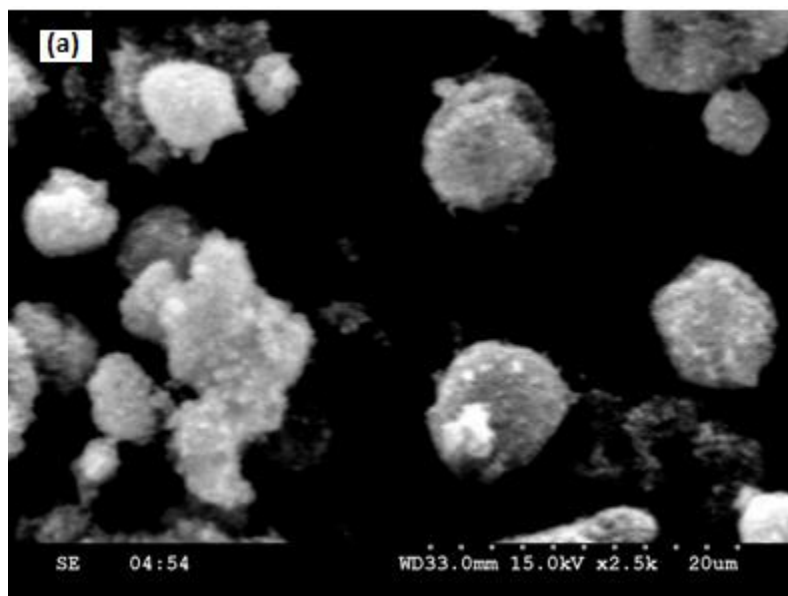


Figure 1 (a) PXRD of commercial Fe₂O₃ nanoparticles (b) PXRD of recycled Fe₂O₃ after three cycles

SEM-Analysis images:



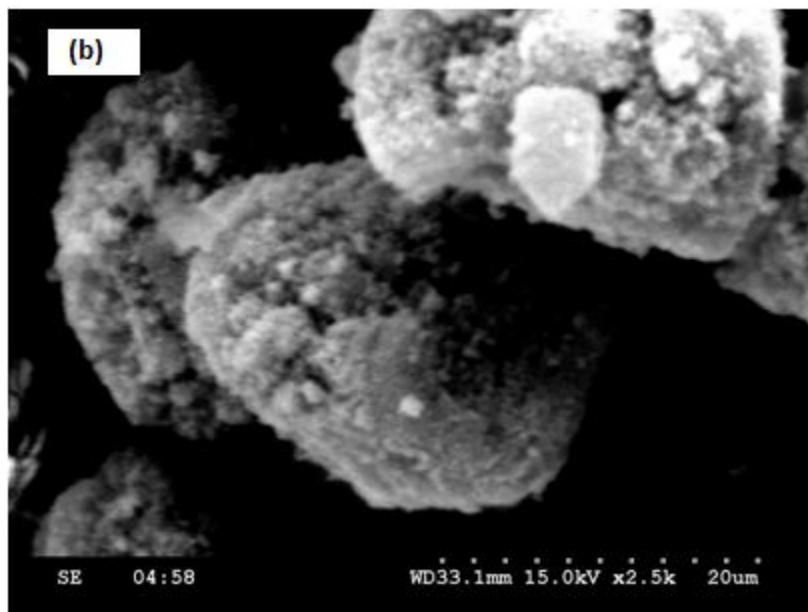


Figure 2 (a) SEM of commercial Fe_2O_3 nanoparticles (b) SEM of recycled Fe_2O_3 after three cycles.

Crystal structure data of the compound 3m

Empirical formula	C ₂₂ H ₁₄ F N ₅ O ₆
Formula weight	463.38
Temperature	298(2) K
Wavelength	0.71073 Å
Crystal system, space group	Triclinic, P-1
Unit cell dimensions	a = 7.2369(7) Å alpha = 116.250(10) deg. b = 12.2218(12) Å beta = 100.287(8) deg. c = 13.4418(13) Å gamma = 95.328(8) deg.
Volume	1029.07(17) Å ³
Z, Calculated density	2, 1.495 Mg/m ³
Absorption coefficient	0.118 mm ⁻¹
F(000)	476
Crystal size	0.26 x 0.24 x 0.20 mm
Theta range for data collection	2.92 to 23.53 deg.
Limiting indices	-8 ≤ h ≤ 7, -13 ≤ k ≤ 13, -15 ≤ l ≤ 15
Reflections collected / unique	5692 / 3046 [R(int) = 0.0380]
Completeness to theta = 23.53	99.8 %
Absorption correction	Empirical
Max. and min. transmission	0.9768 and 0.9700
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	3046 / 0 / 308
Goodness-of-fit on F ²	0.924
Final R indices [I > 2σ(I)]	R1 = 0.0441, wR2 = 0.0698

R indices (all data) $R_1 = 0.0937$, $wR_2 = 0.0810$

Largest diff. peak and hole 0.138 and $-0.153 \text{ e.}\text{\AA}^{-3}$

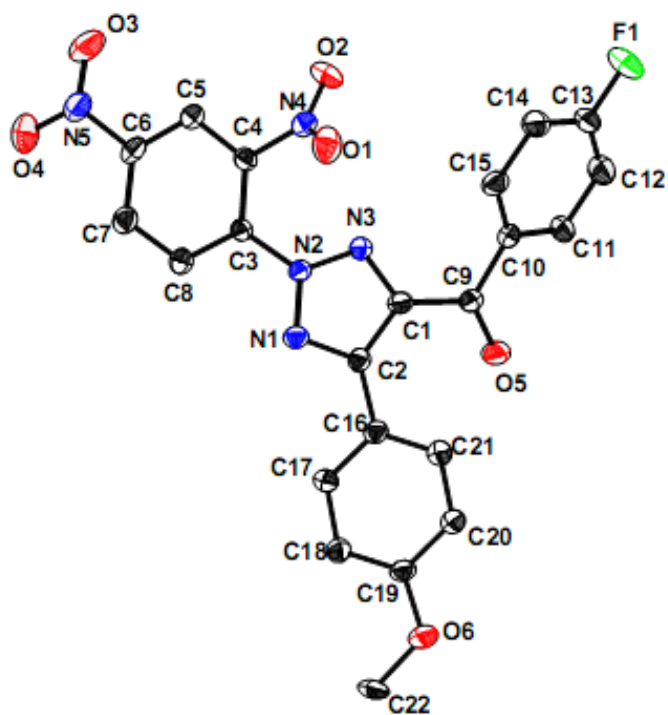


Figure 2. Thermal ellipsoidal diagram of compound **3m** (30% probability, Hydrogen atoms are omitted for clarity)