

Supplementary Material

A facile base-promoted domino Michael/O-alkylation reaction for the construction of succinimide substituted 3(2H)-furanones

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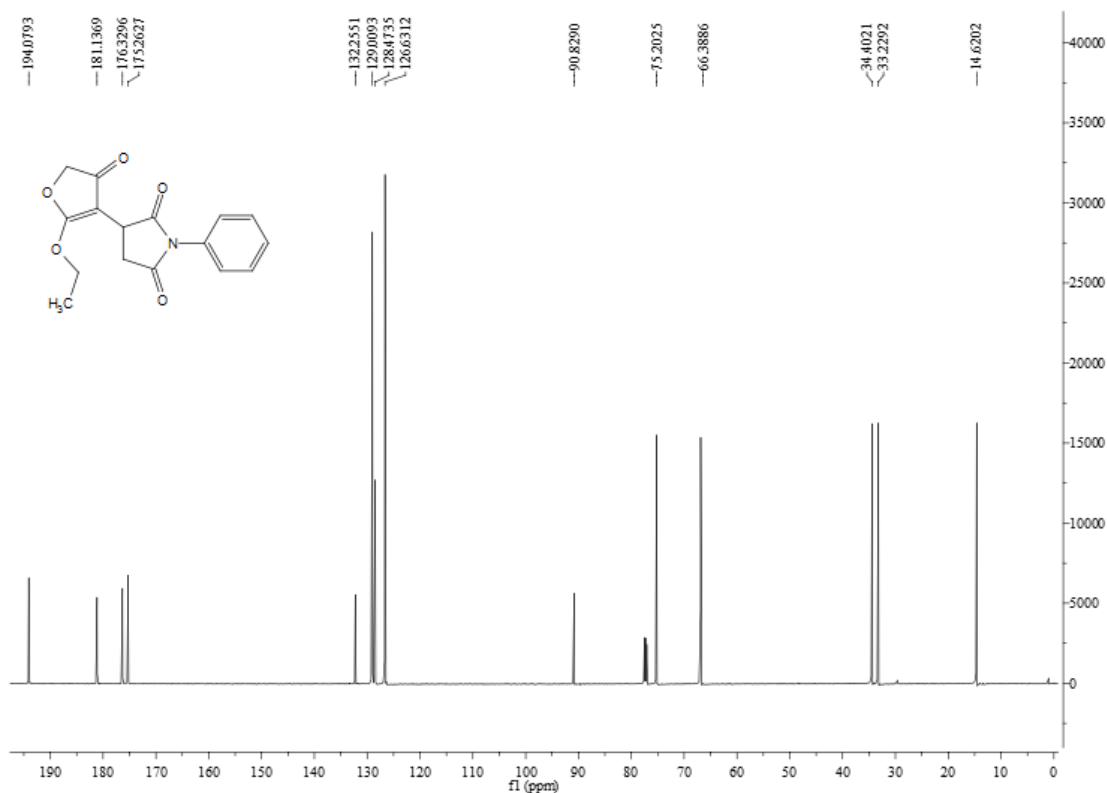
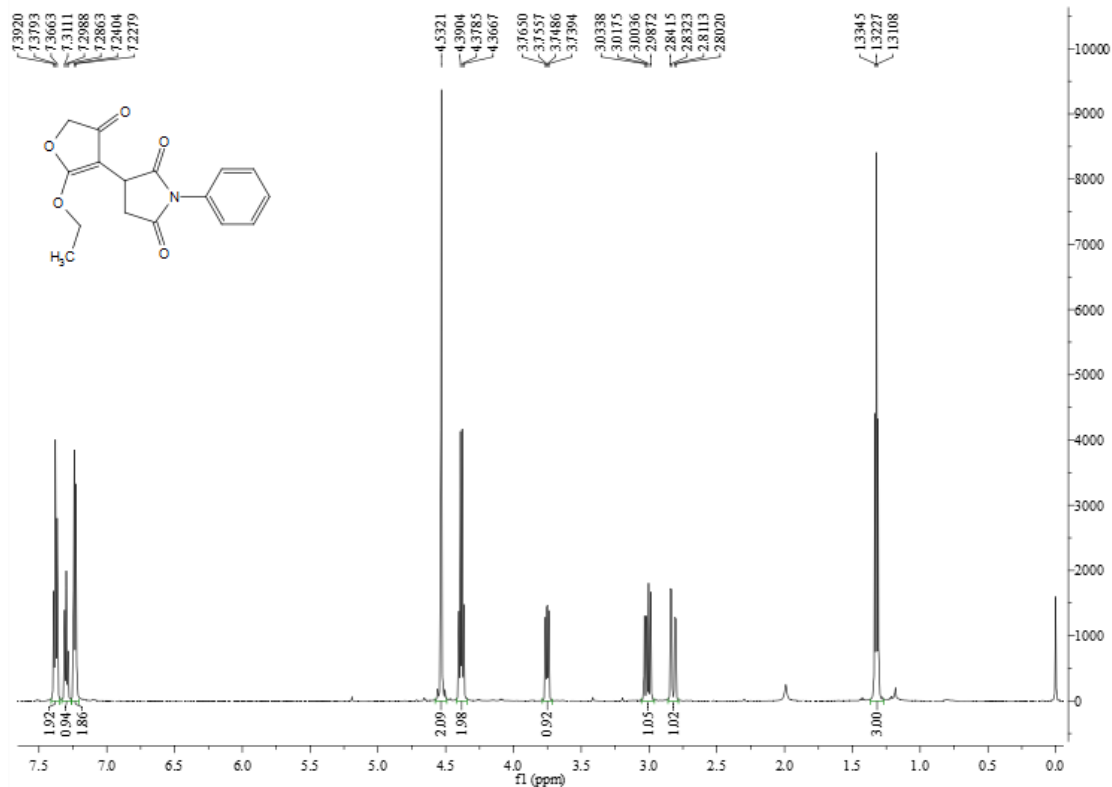
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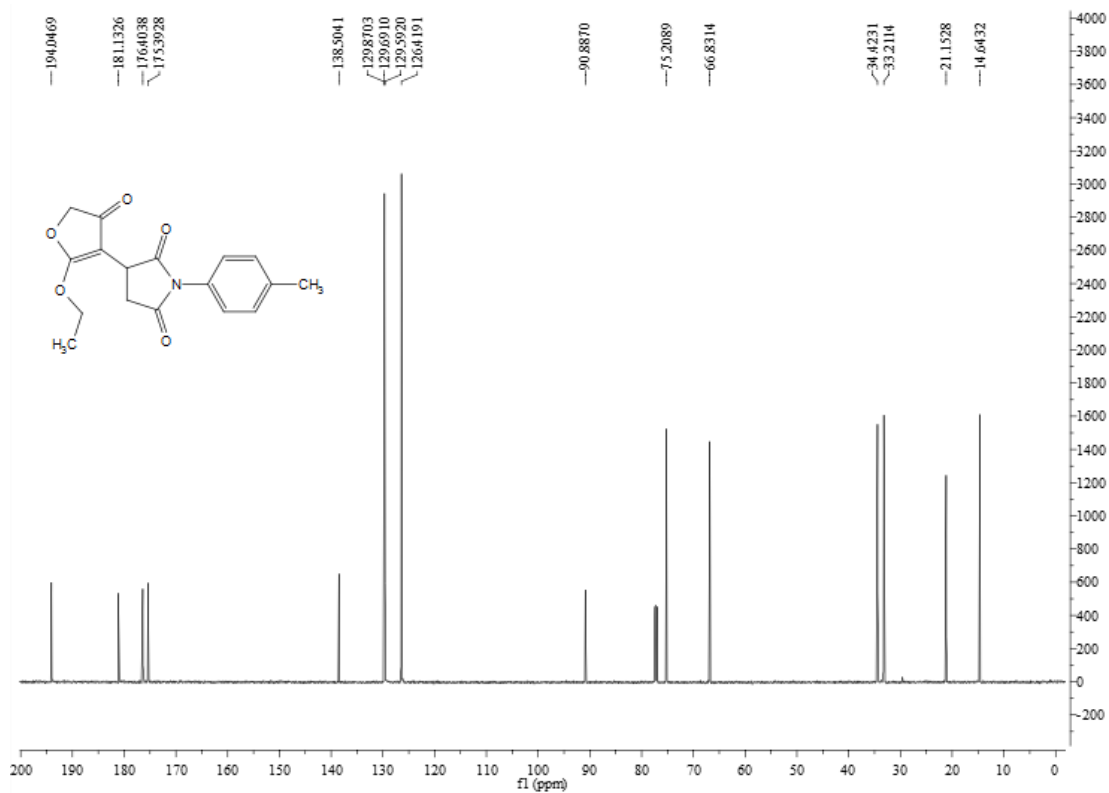
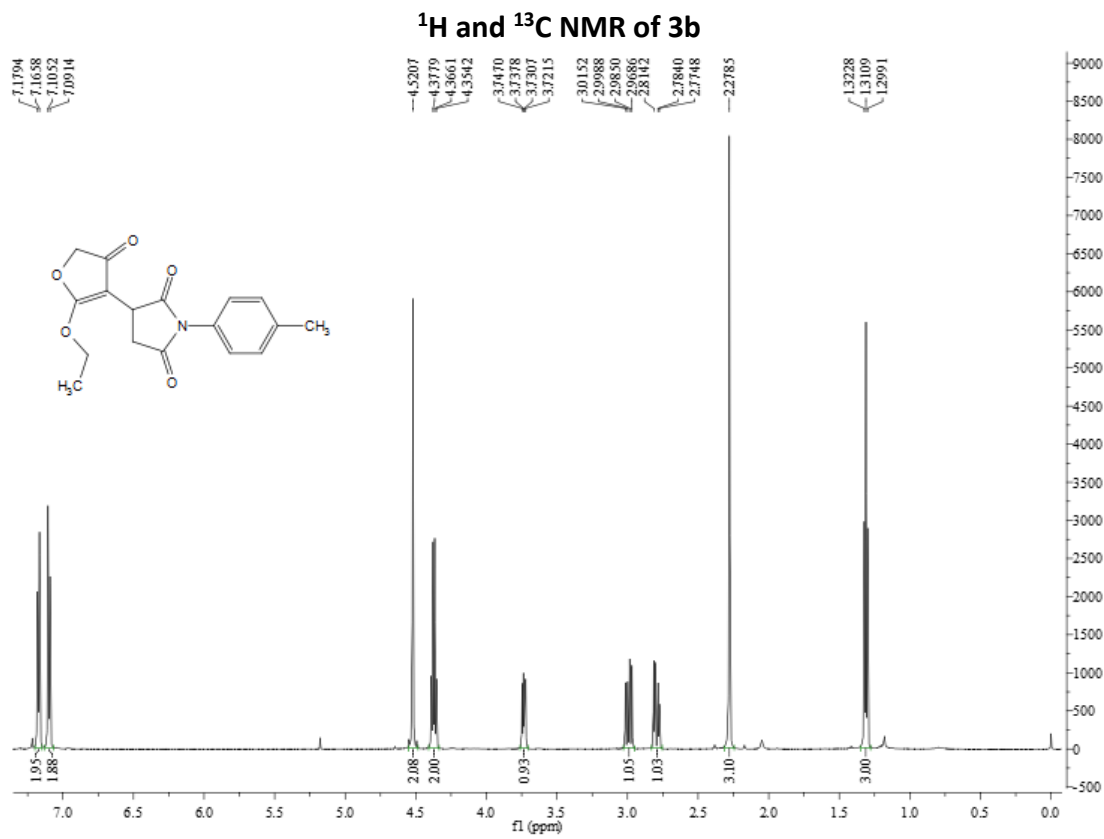
Email: zhoujing045@cqmu.edu.cn

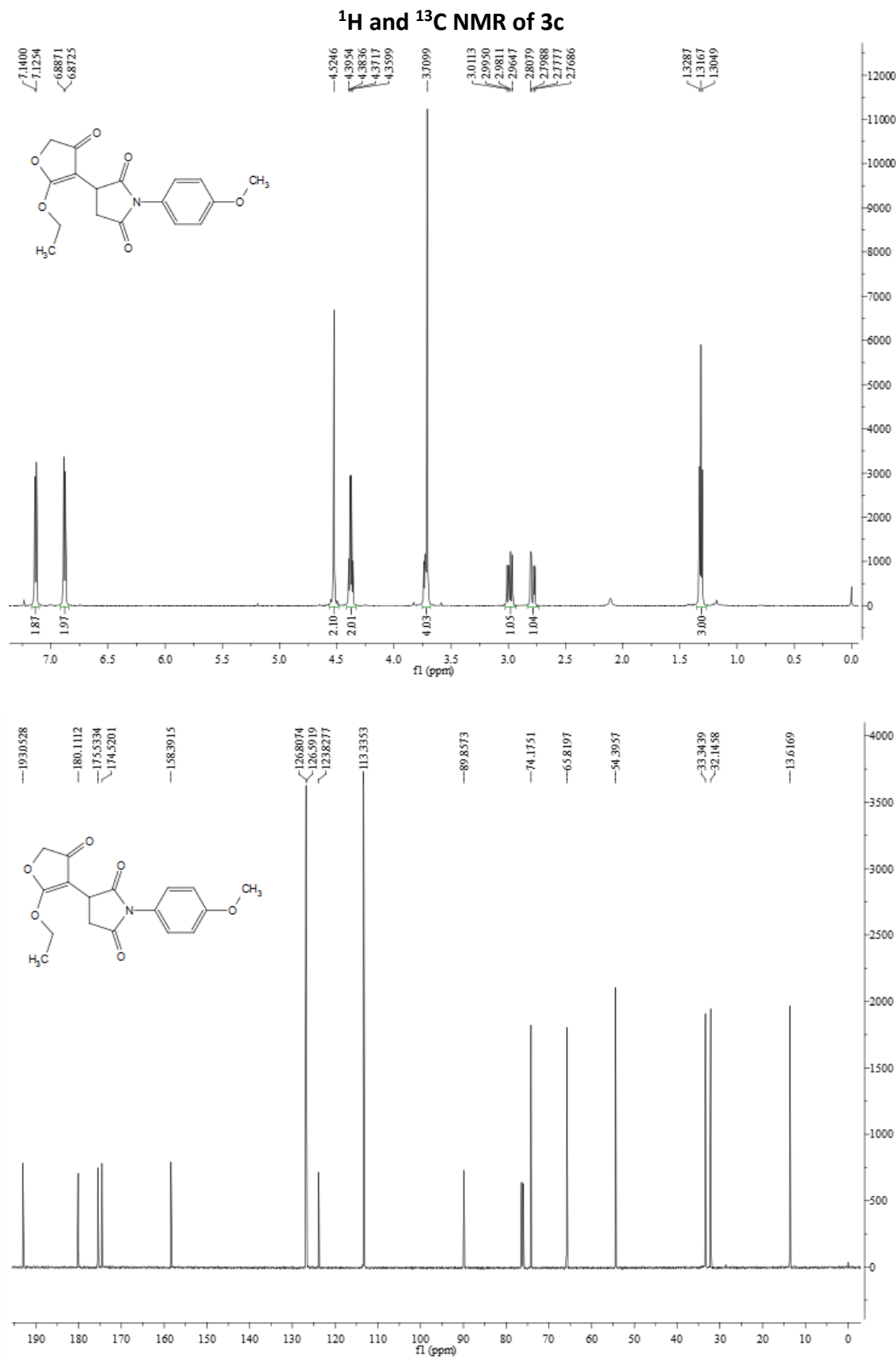
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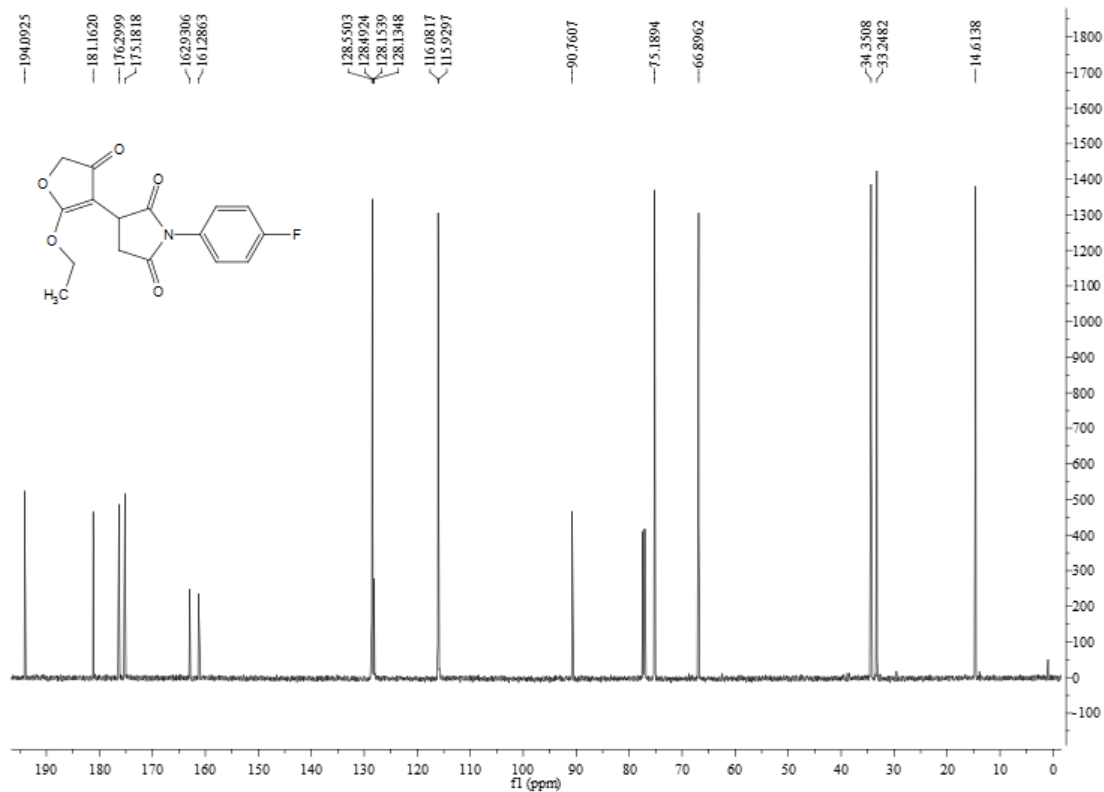
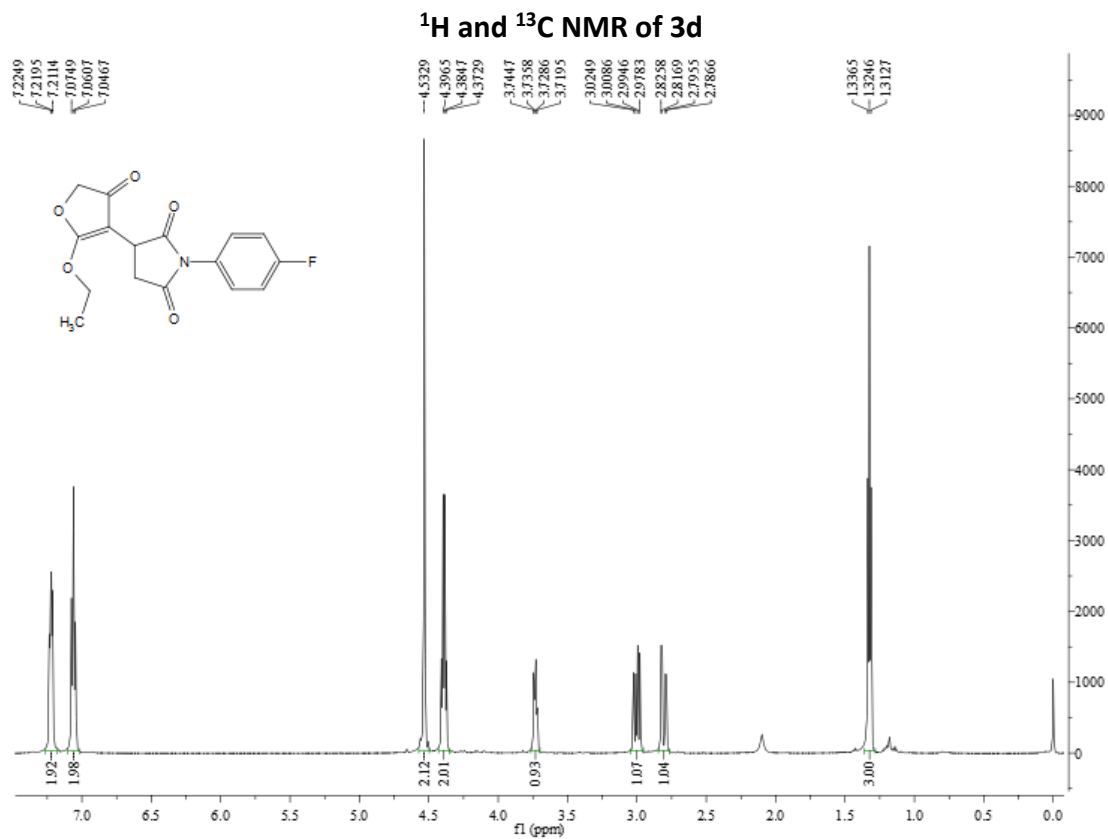
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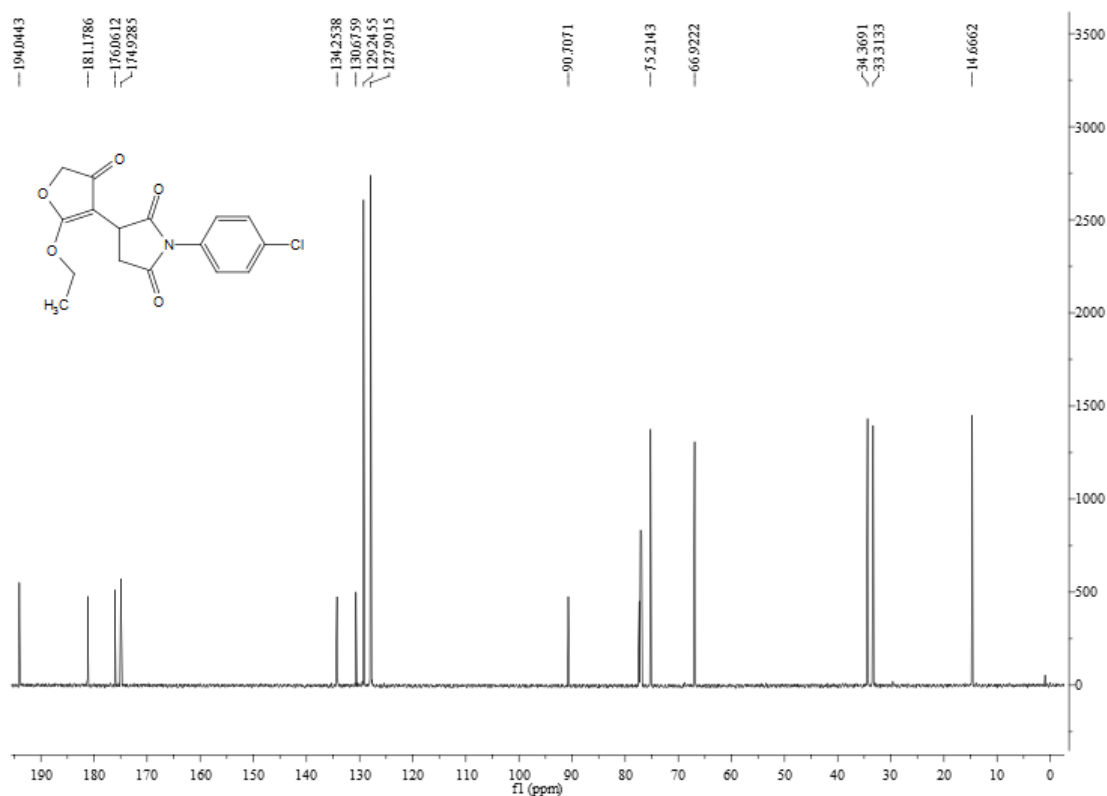
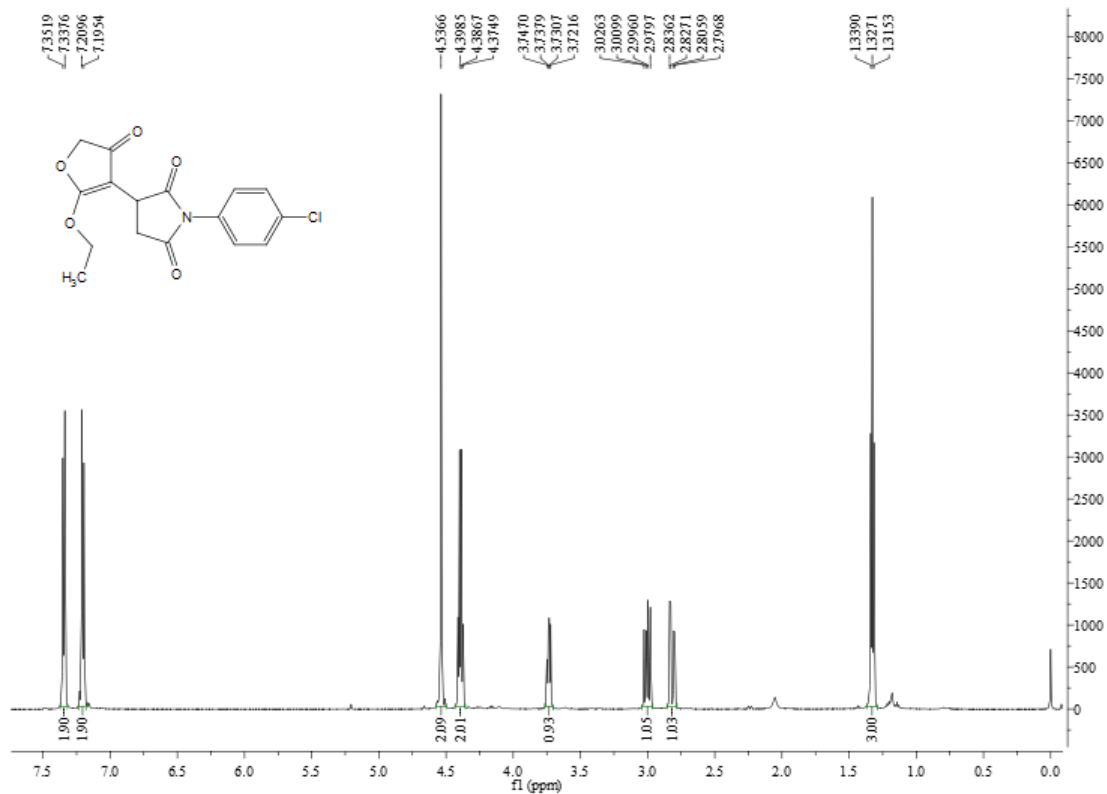
1. Copies of NMR spectra of the products

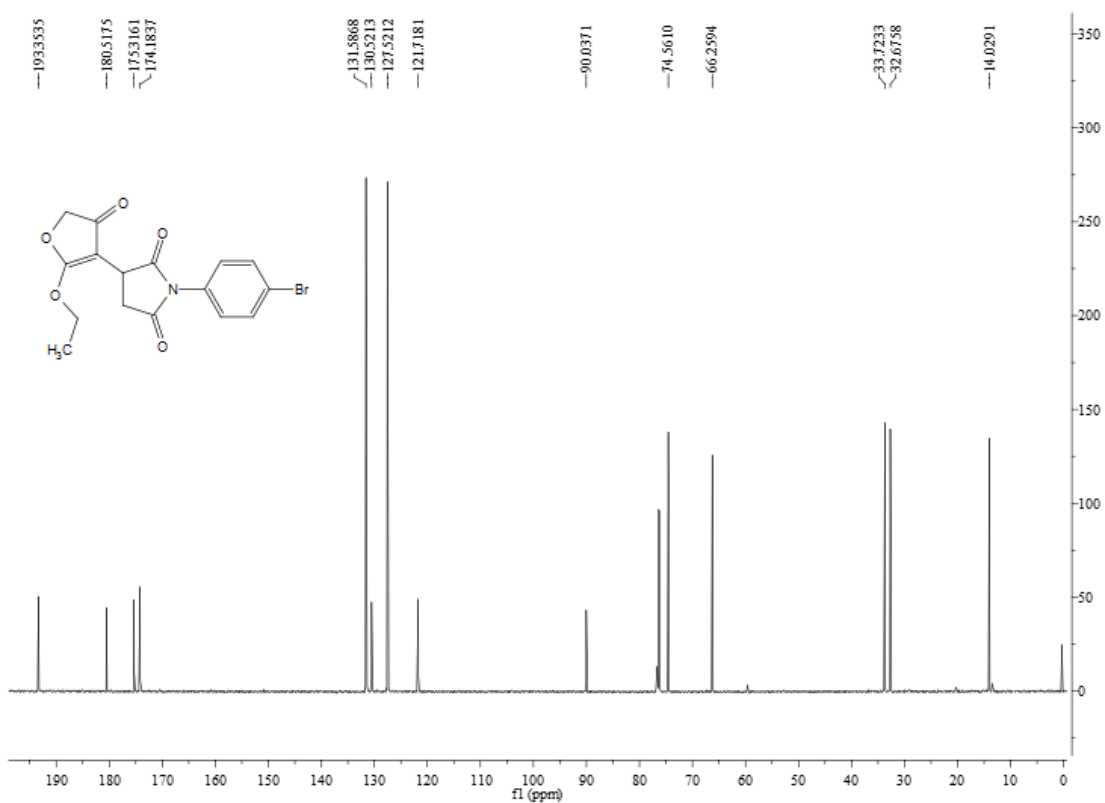
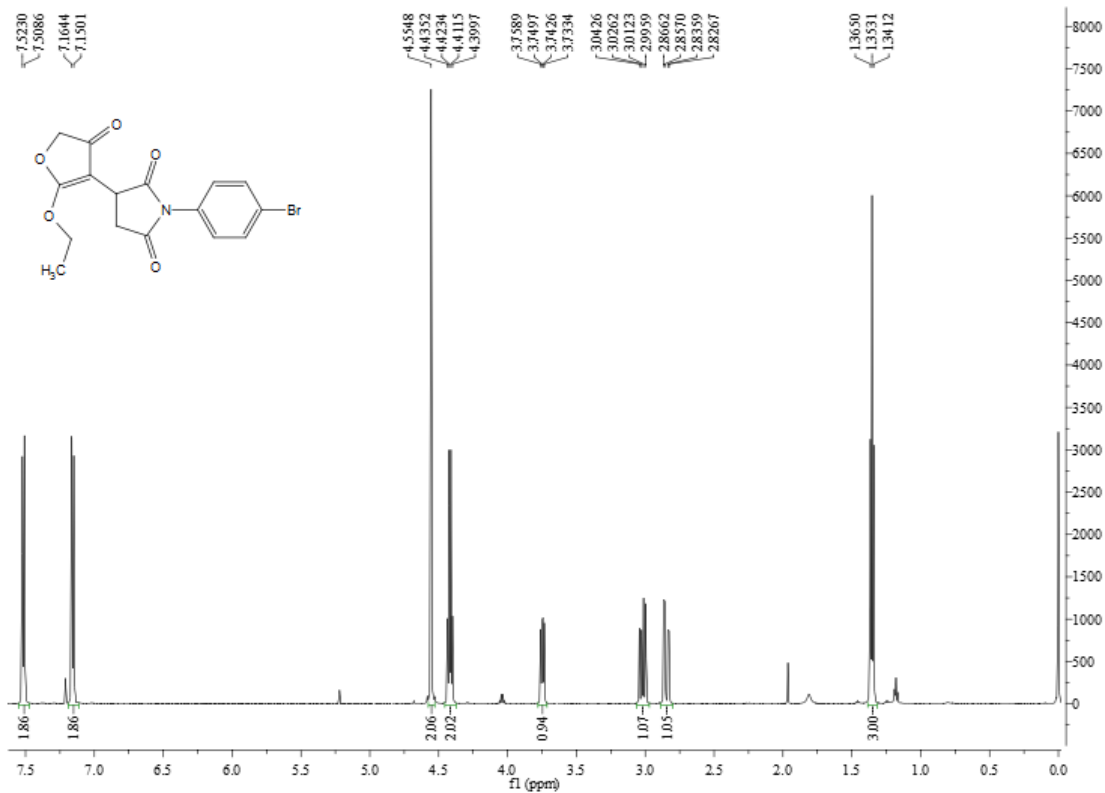
 ^1H and ^{13}C NMR of 3a

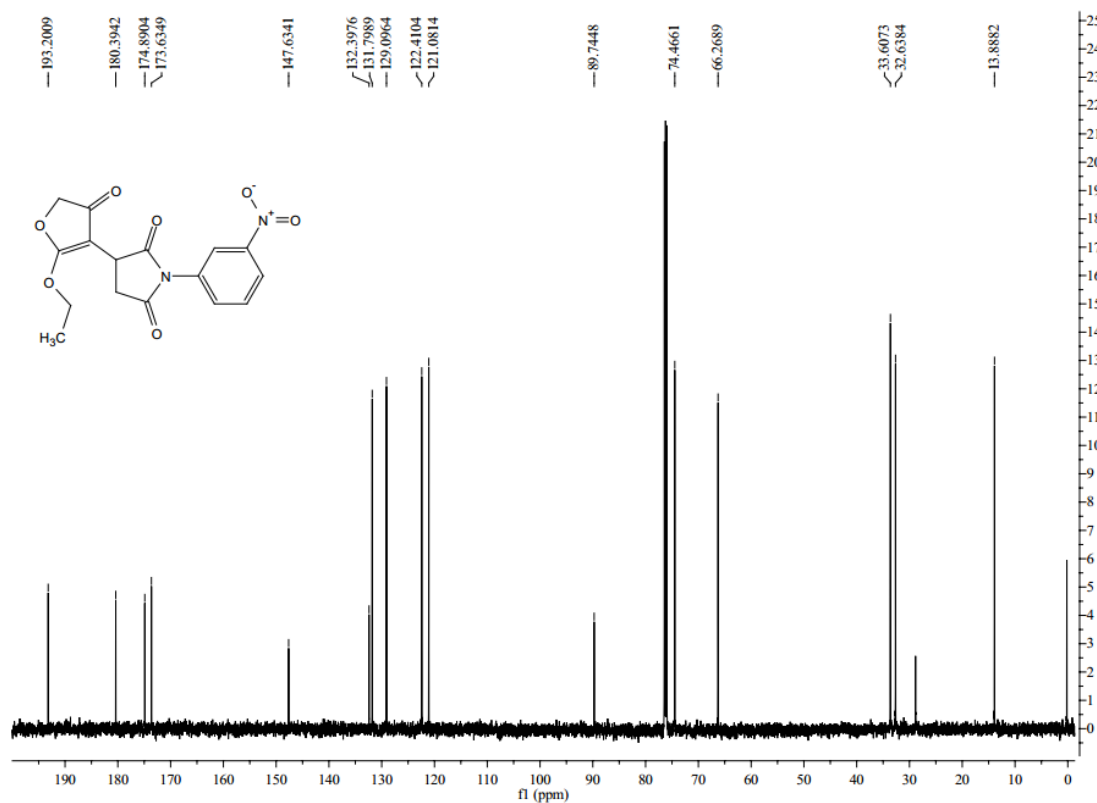
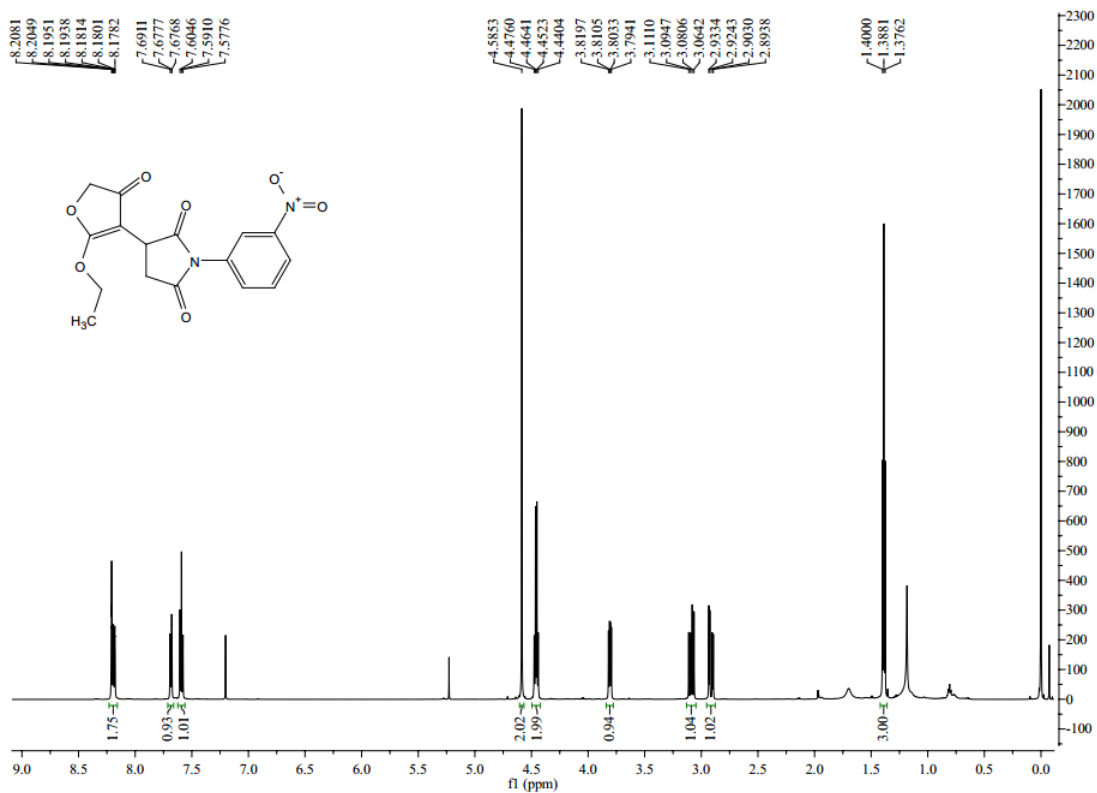




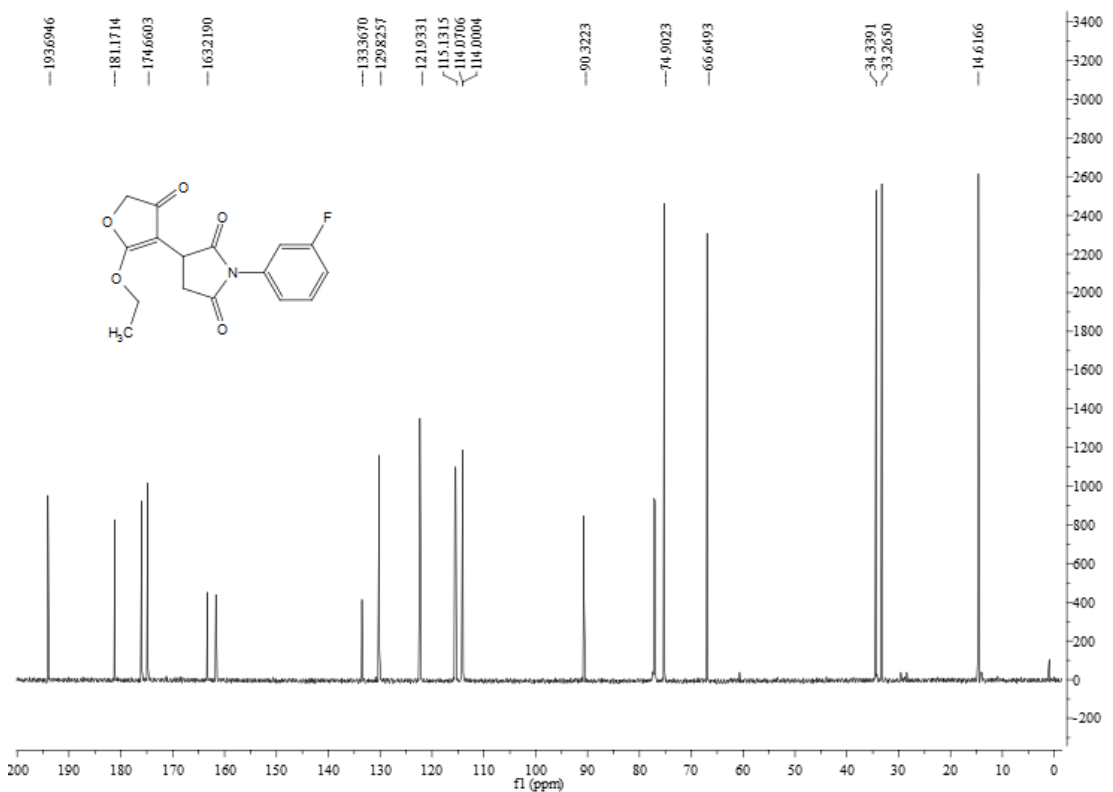
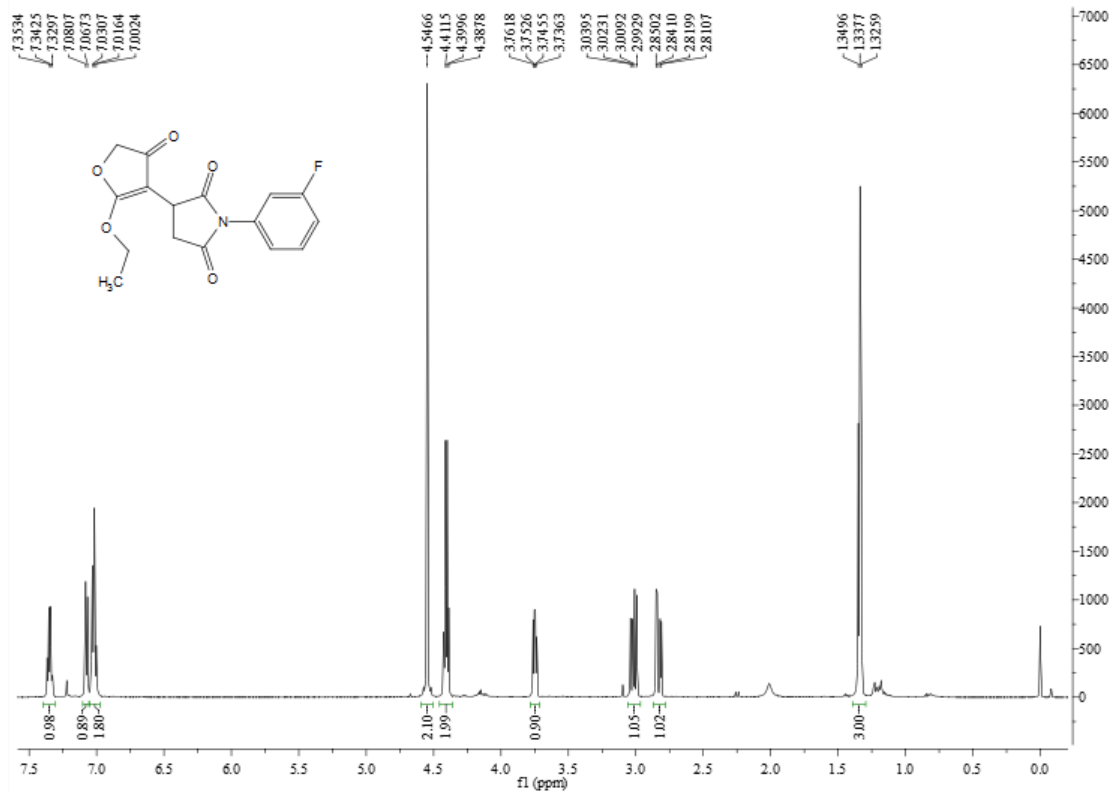


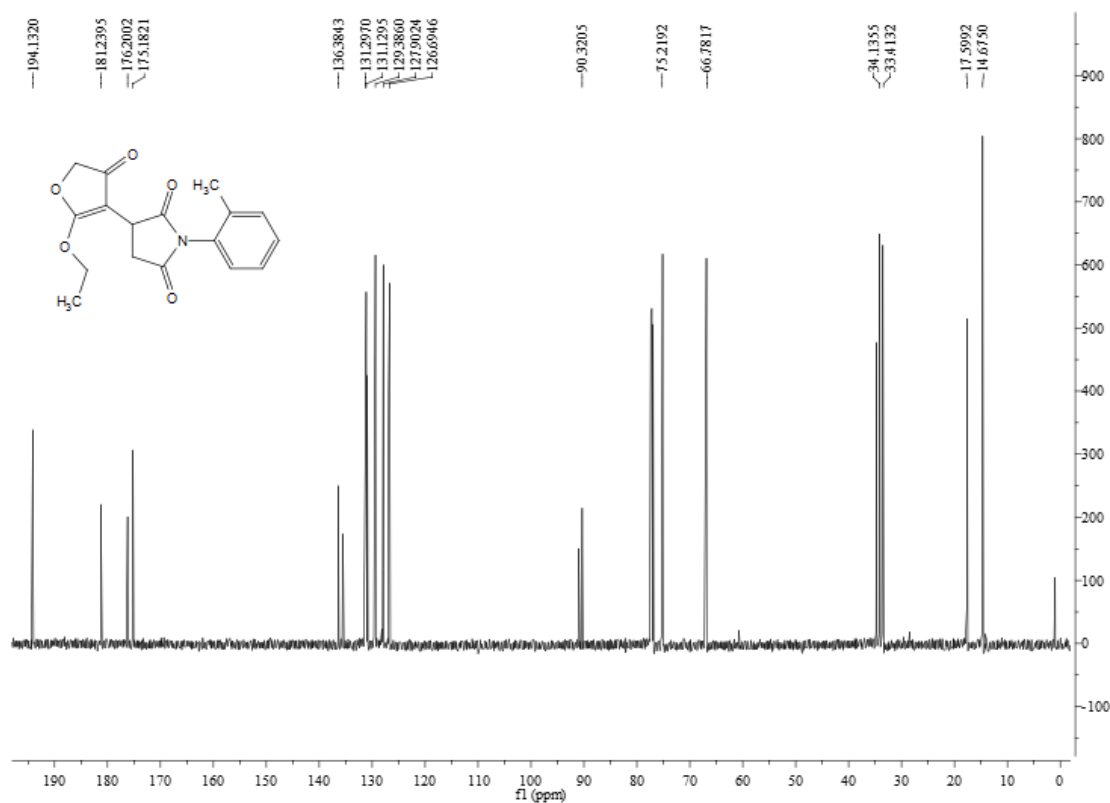
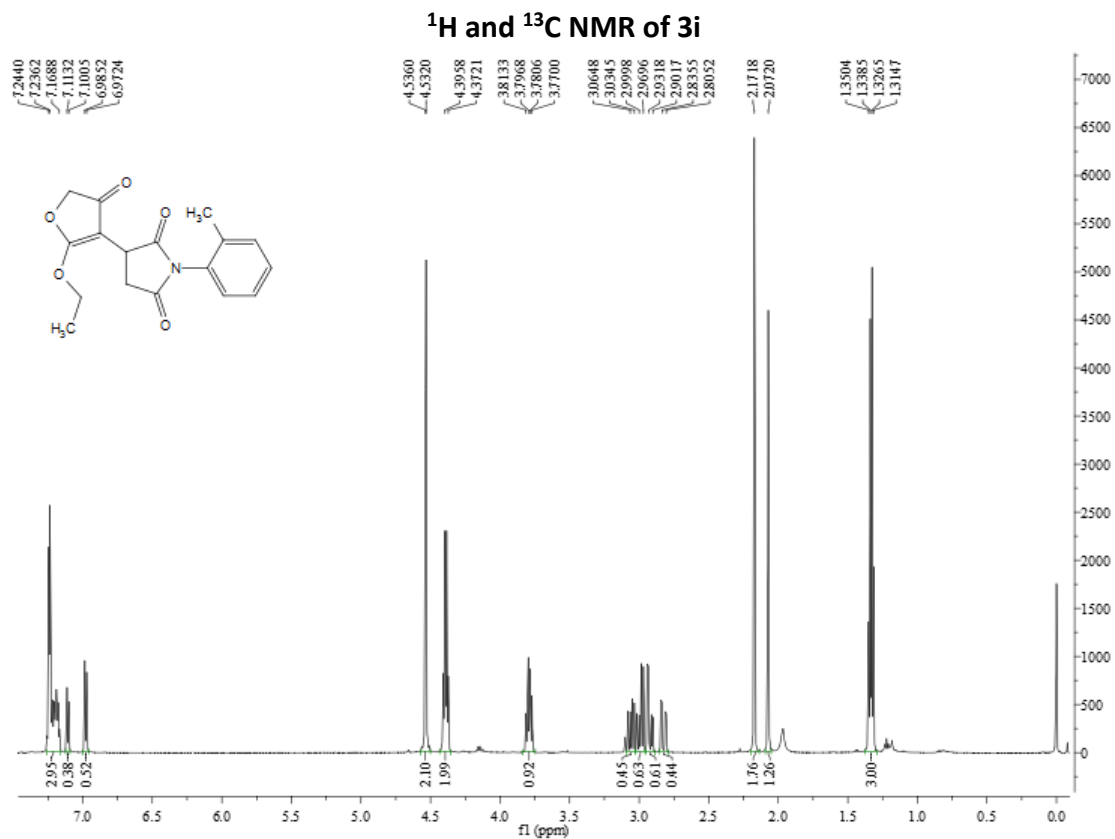
¹H and ¹³C NMR of 3e

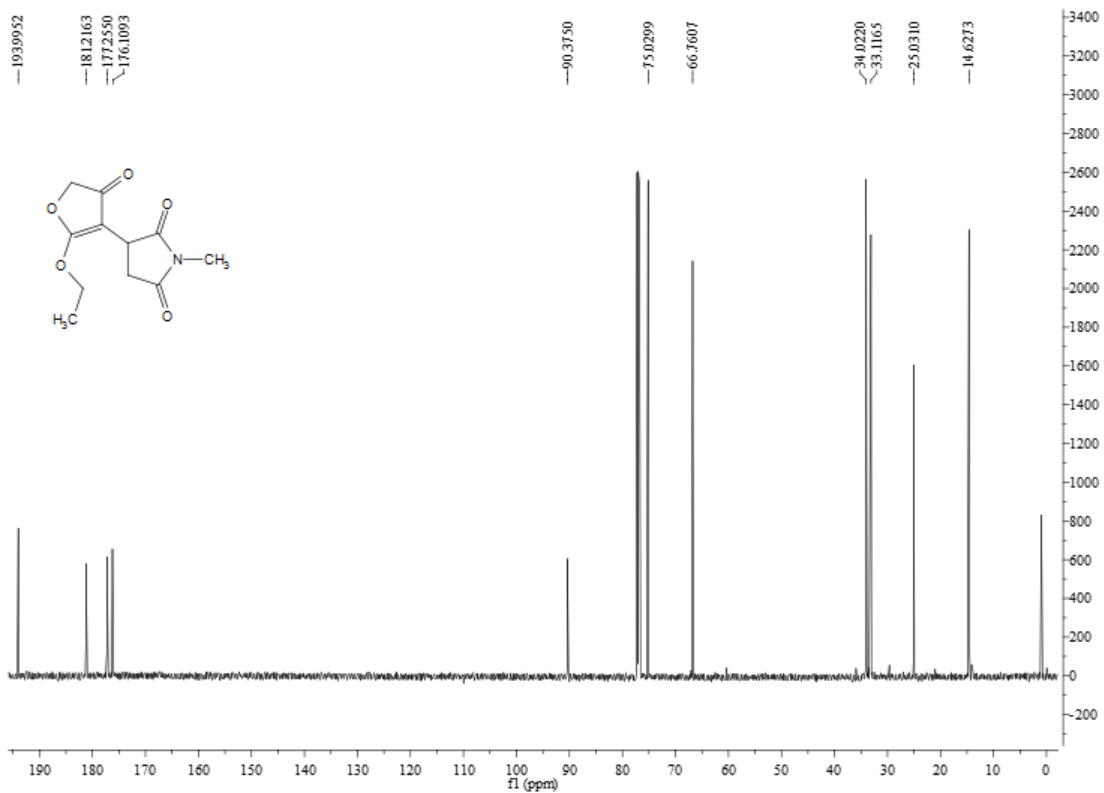
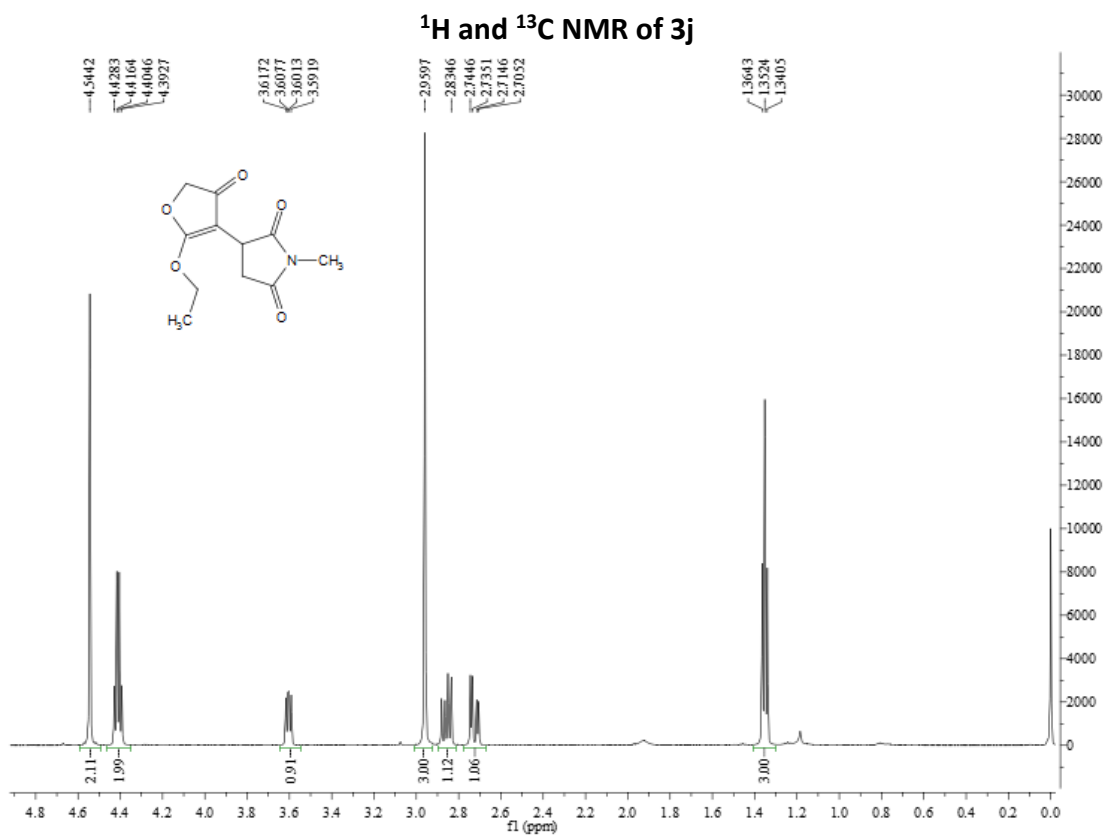
^1H and ^{13}C NMR of 3f

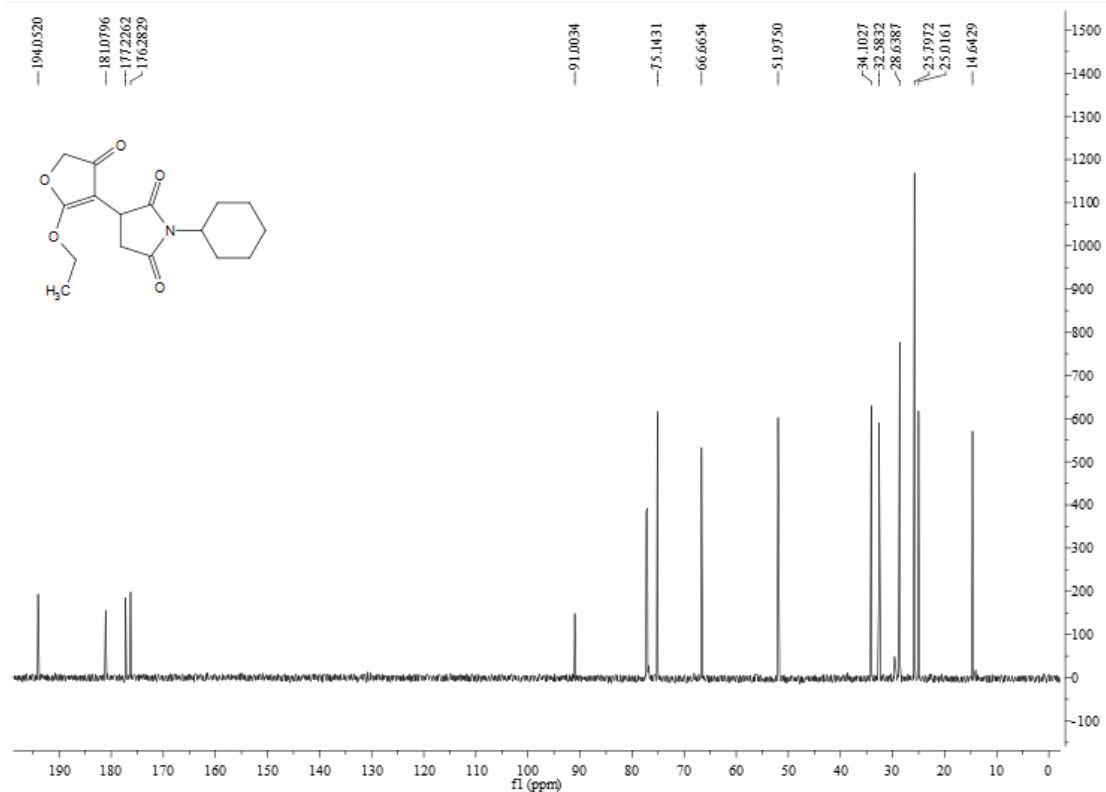
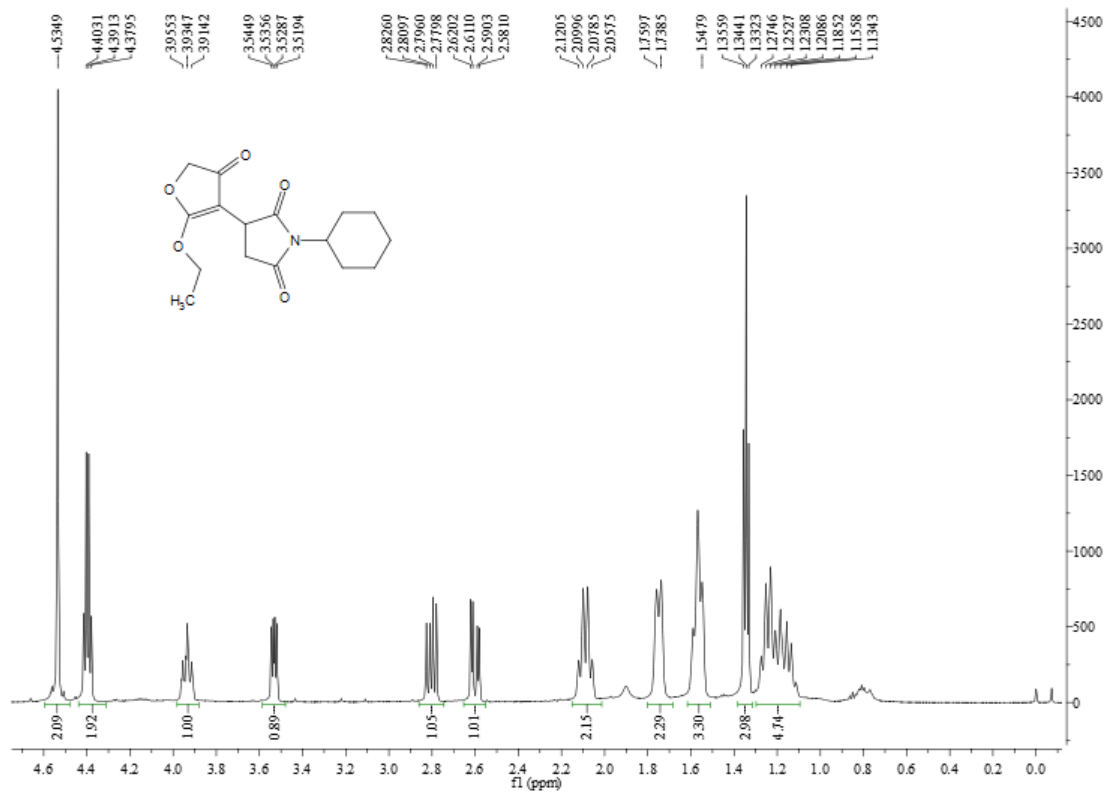
¹H and ¹³C NMR of 3g

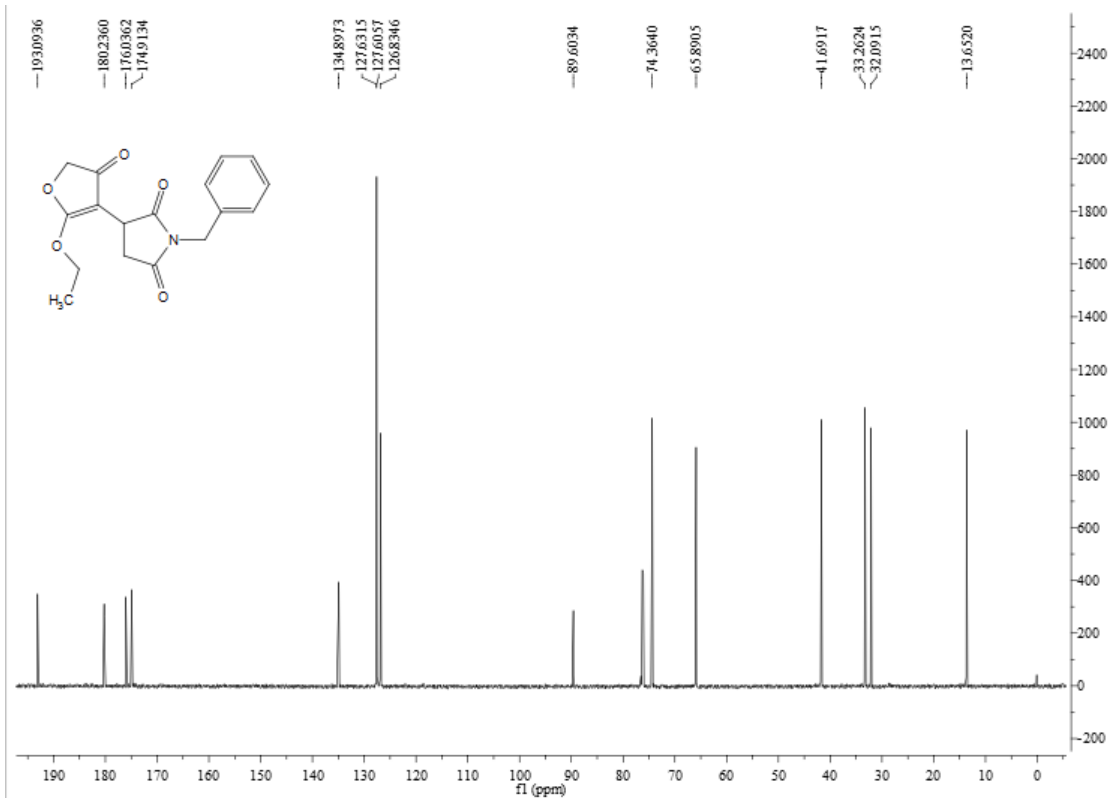
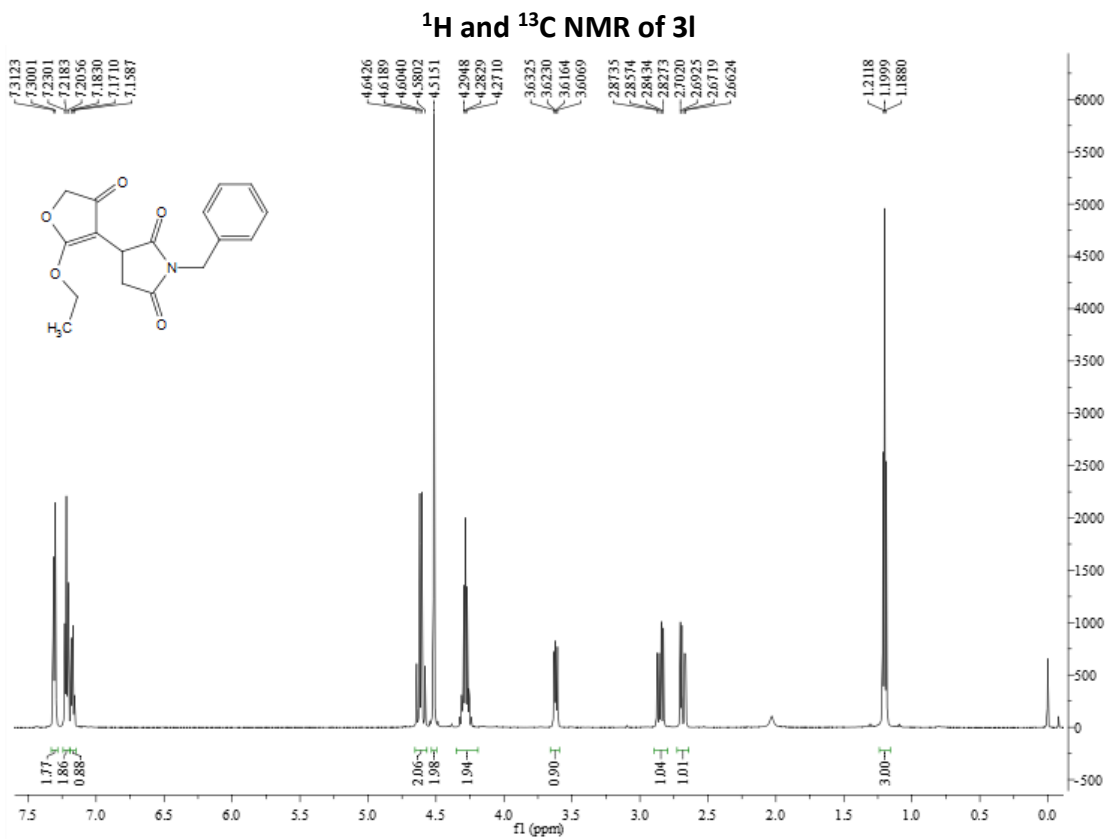
¹H and ¹³C NMR of 3h



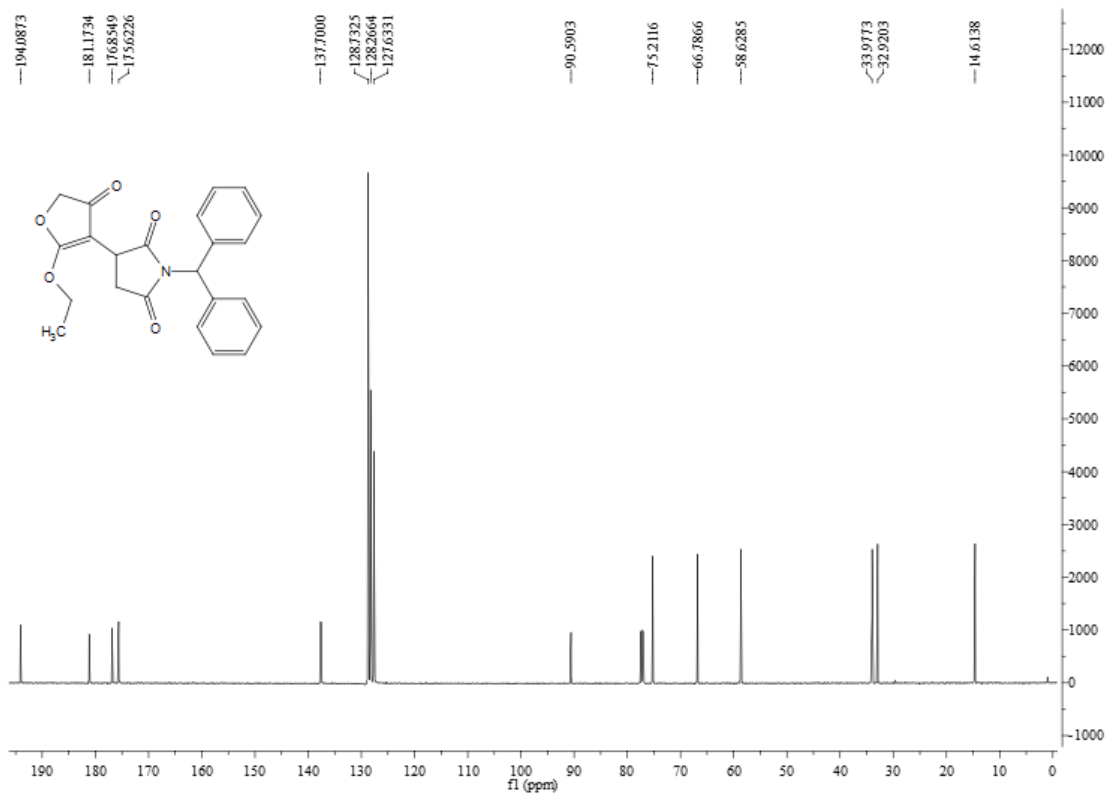
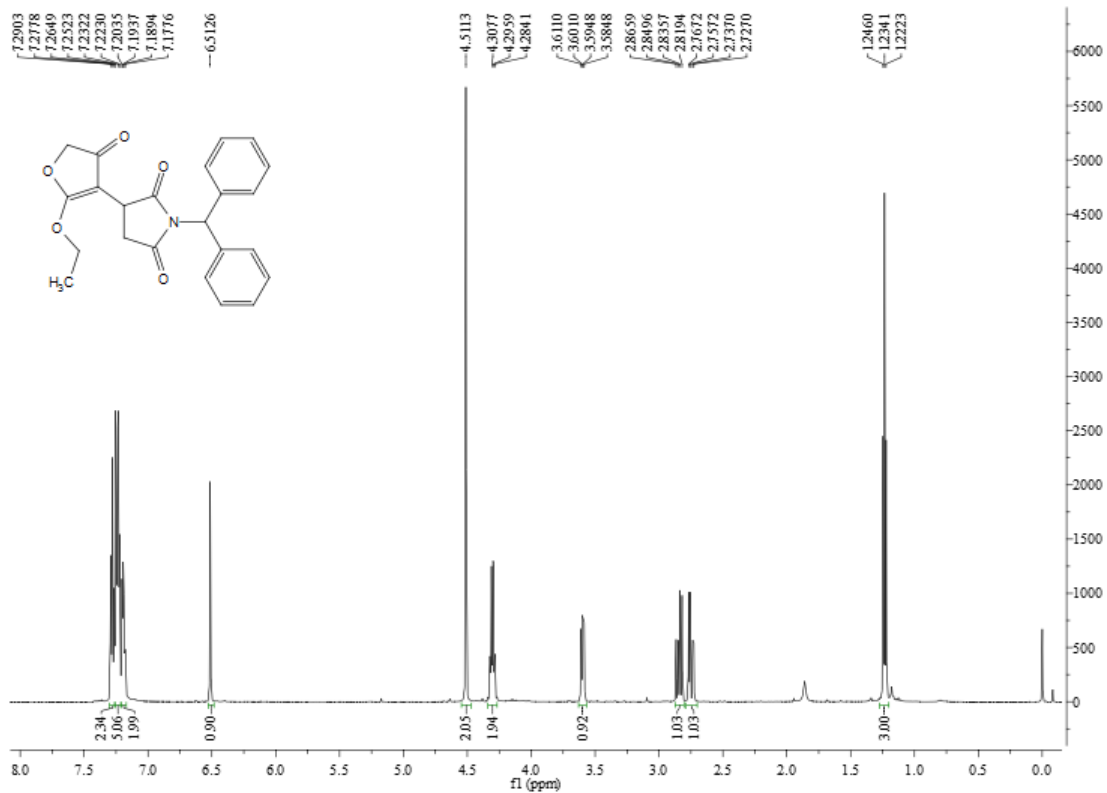


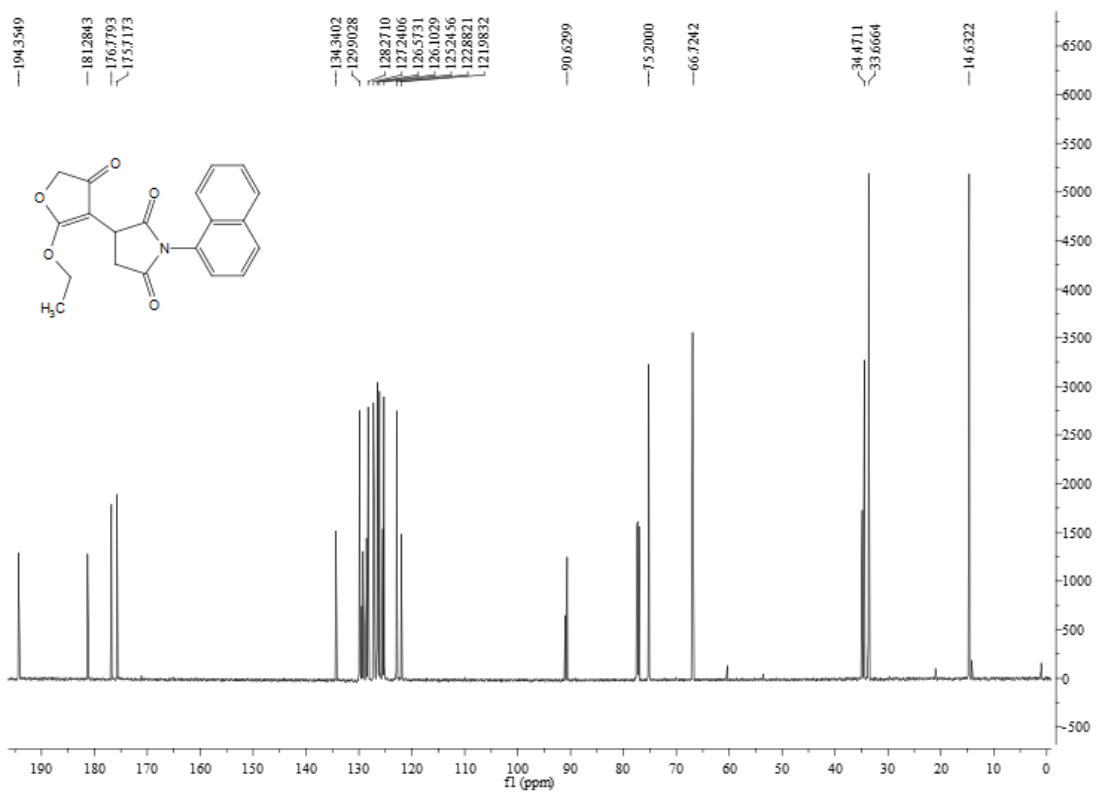
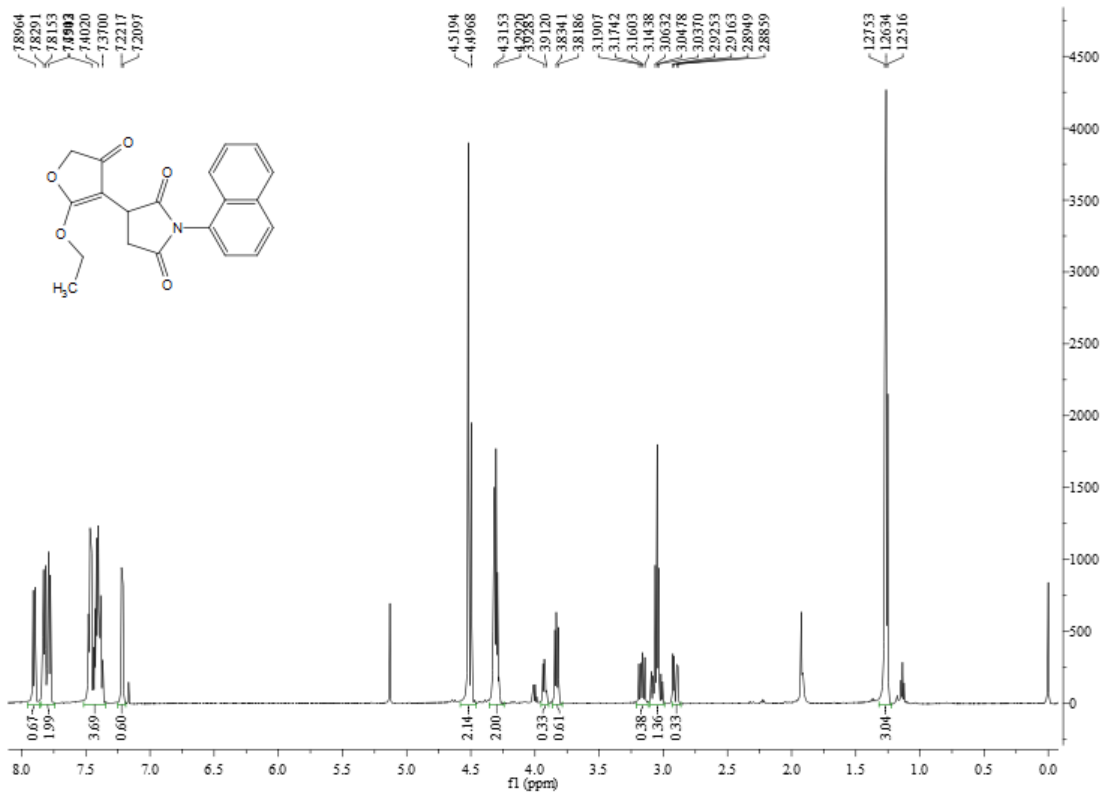


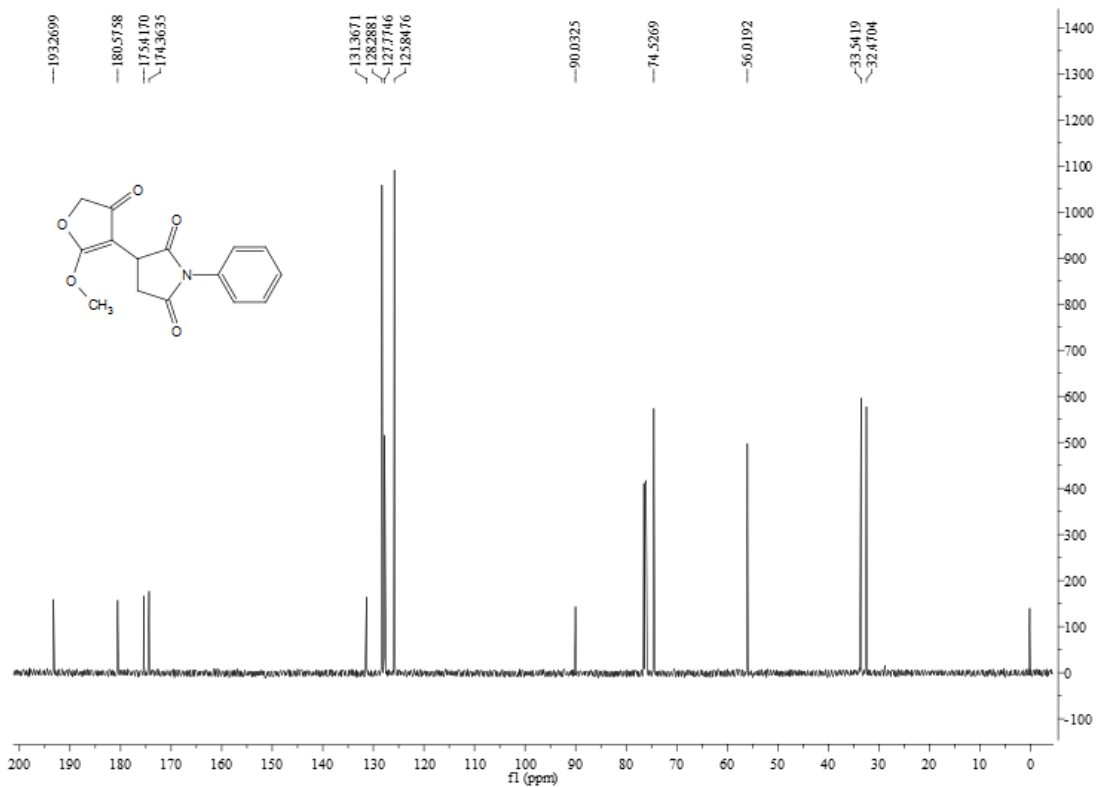
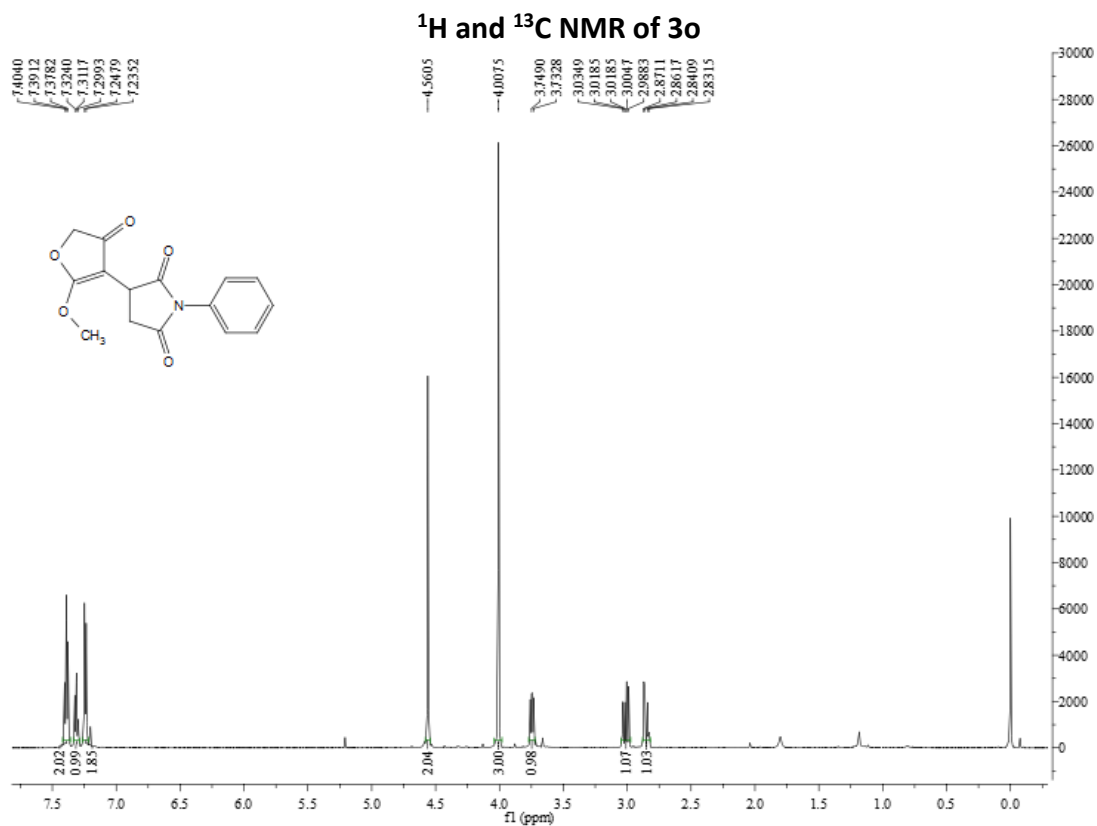
^1H and ^{13}C NMR of 3k



¹H and ¹³C NMR of 3m

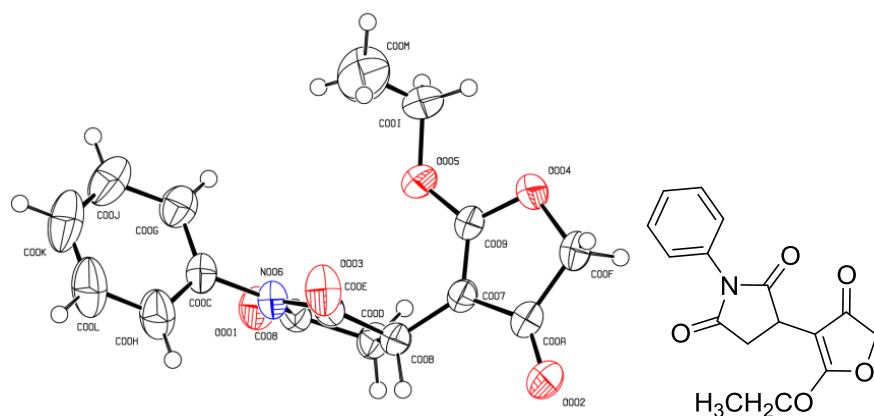


^1H and ^{13}C NMR of 3n



2. Single-crystal X-ray crystallography of product 3a

Single-crystal X-ray crystallography of product **3a** (CDCC number: CCDC 1476572)



Bond precision:	C-C = 0.0044 Å	Wavelength = 0.71073	
Cell:	a = 5.4135 (8)	b = 8.3175 (11)	c = 31.982 (4)
	alpha = 90	beta = 93.664 (12)	gamma = 90
Temperature:	292 K		
	Calculated	Reported	
Volume	1437.1 (3)	1437.1 (3)	
Space group	P 21/n	P 1 21/n 1	
Hall group	-P 2yn	-P 2yn	
Moiety formula	C ₁₆ H ₁₅ N O ₅	C ₁₆ H ₁₅ N O ₅	
Sum formula	C ₁₆ H ₁₅ N O ₅	C ₁₆ H ₁₅ N O ₅	
Mr	301.29	301.29	
Dx, g cm ⁻³	1.393	1.393	
Z	4	4	
Mu (mm ⁻¹)	0.105	0.105	
F000	632.0	632.0	
F000'	632.36		
h, k, lmax	7, 11, 43	6, 11, 43	
Nref	3806	3279	
Tmin, Tmax	0.981, 0.984	0.453, 1.000	
Tmin'	0.974		
Correction method = # Reported T Limits:	Tmin = 0.453 Tmax = 1.000		
AbsCorr = MULTI-SCAN			
Data completeness = 0.862	Theta (max) = 28.922		
R (reflections) = 0.0682 (2020)	wR2 (reflections) = 0.1983 (3279)		
S = 1.053	Npar = 200		