

A Stereoselective Synthesis of Fully Substituted Tetrahydrofurans through 1,3-Dipolar Cycloadditions with Cinnamaldehydes: An Easy Access to Chroman Derivatives

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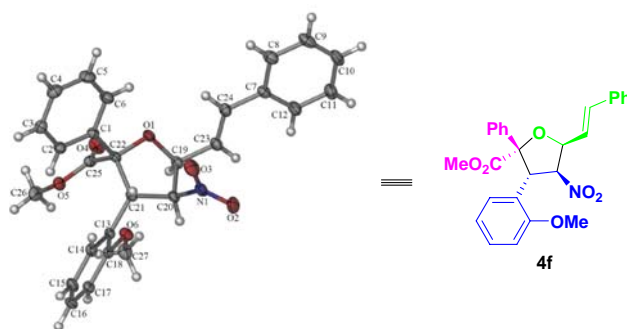
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Supporting Information

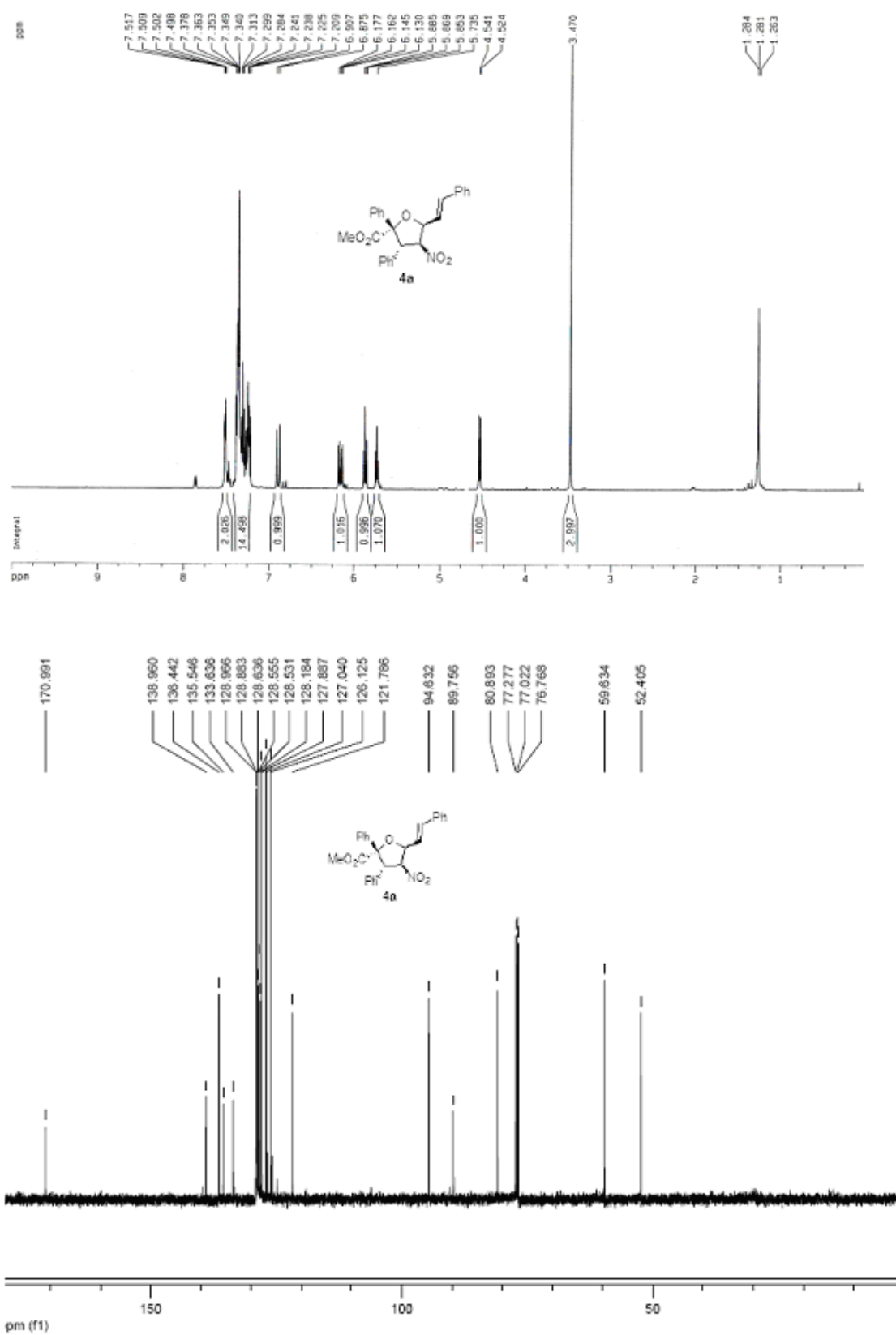
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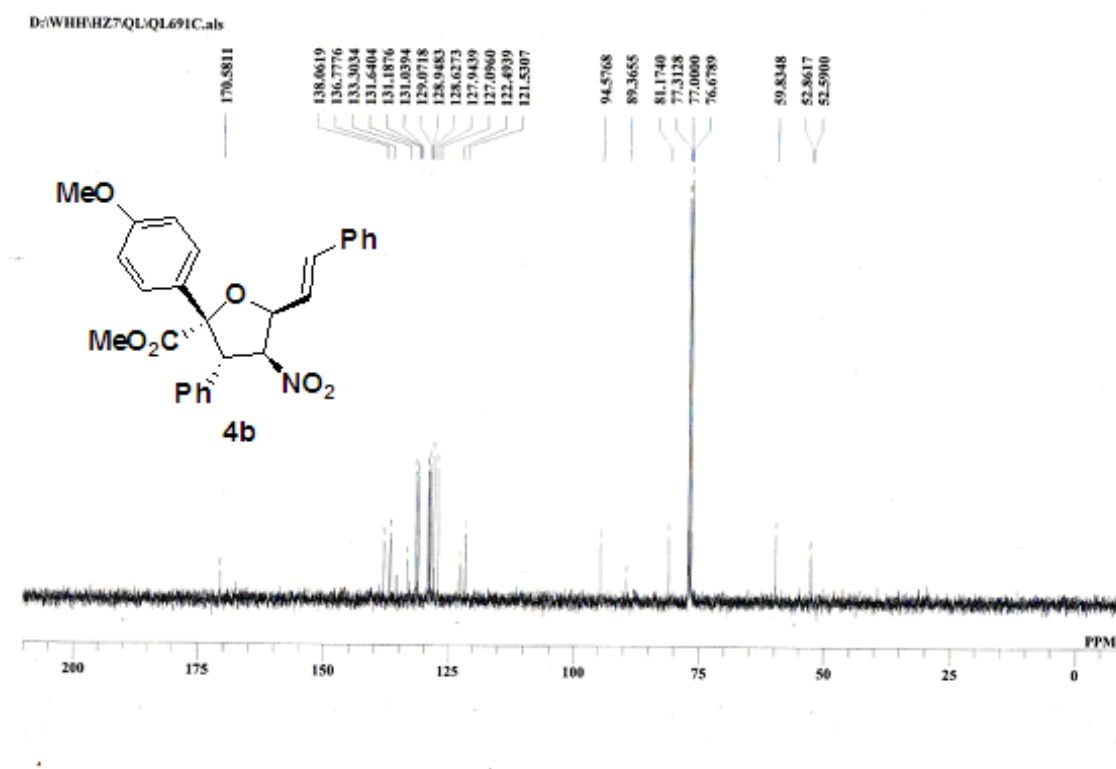
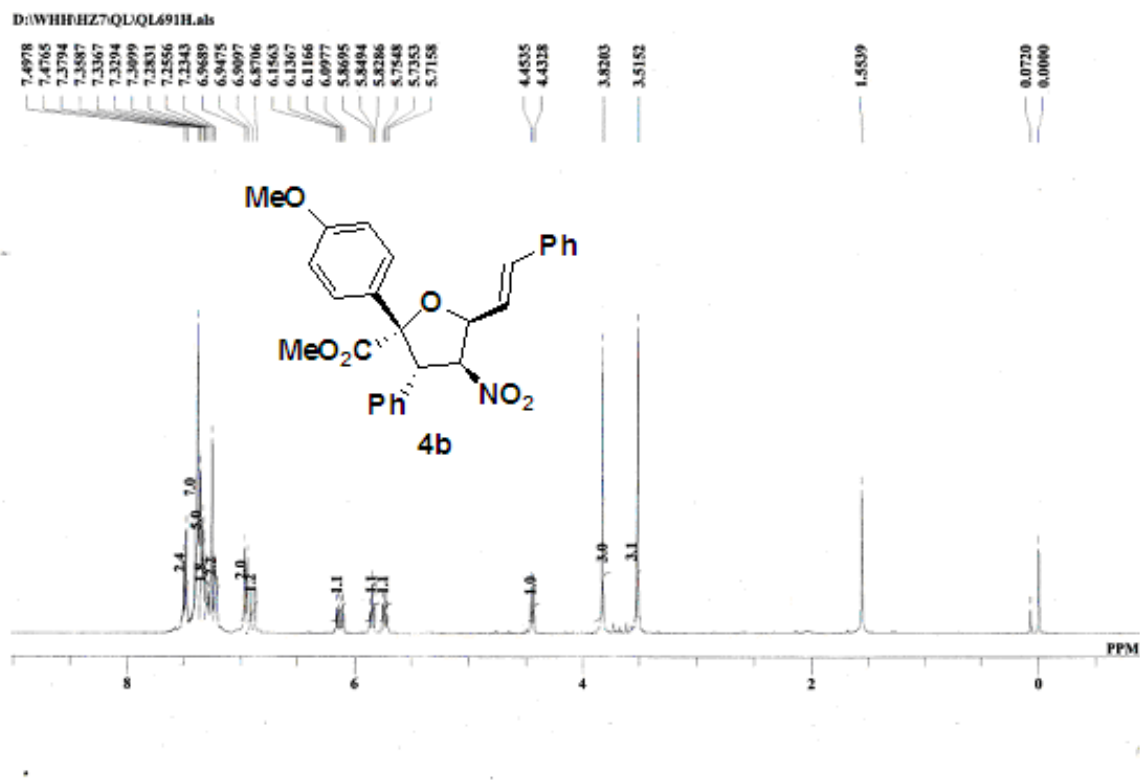
1. Crystal data of 4f (CCDC 939643)

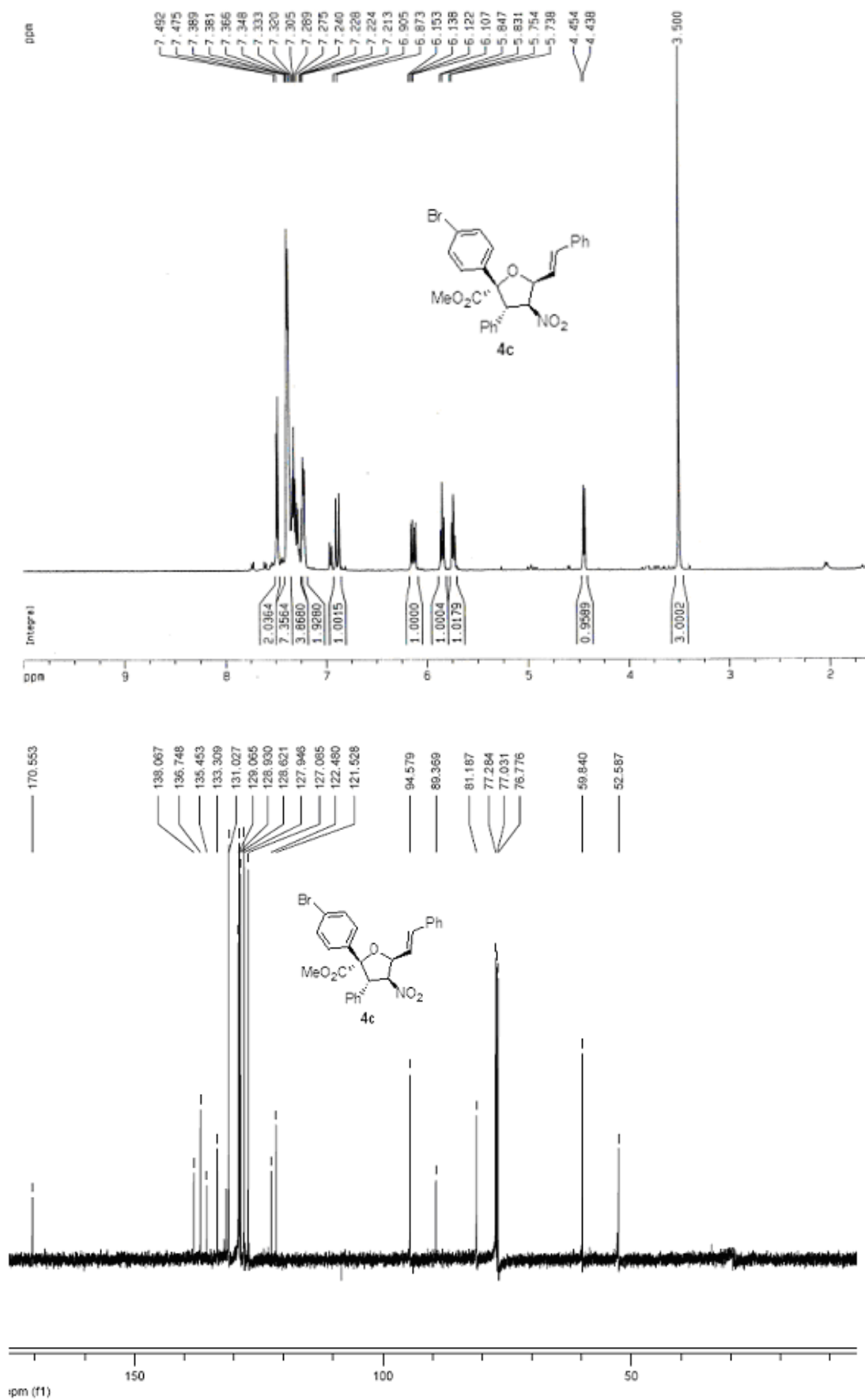


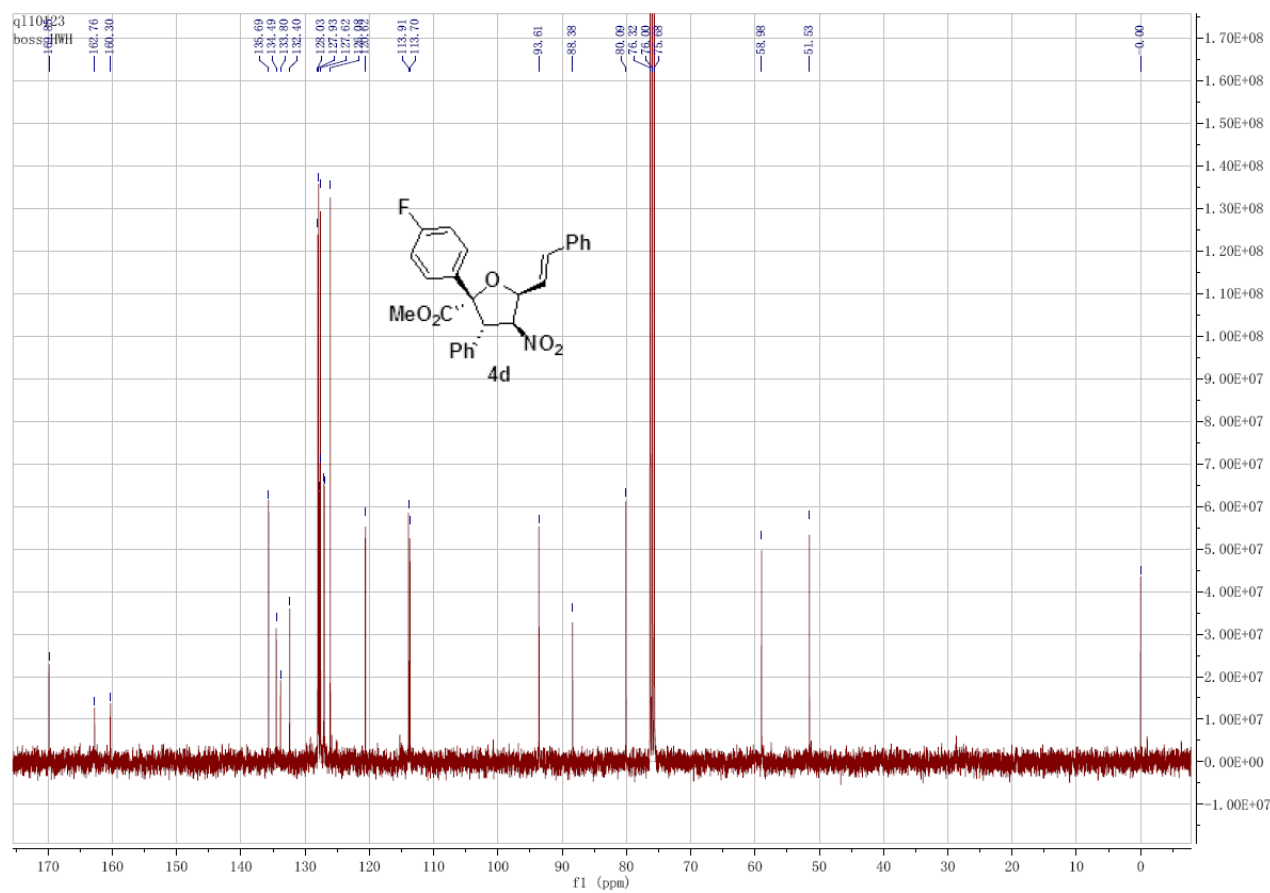
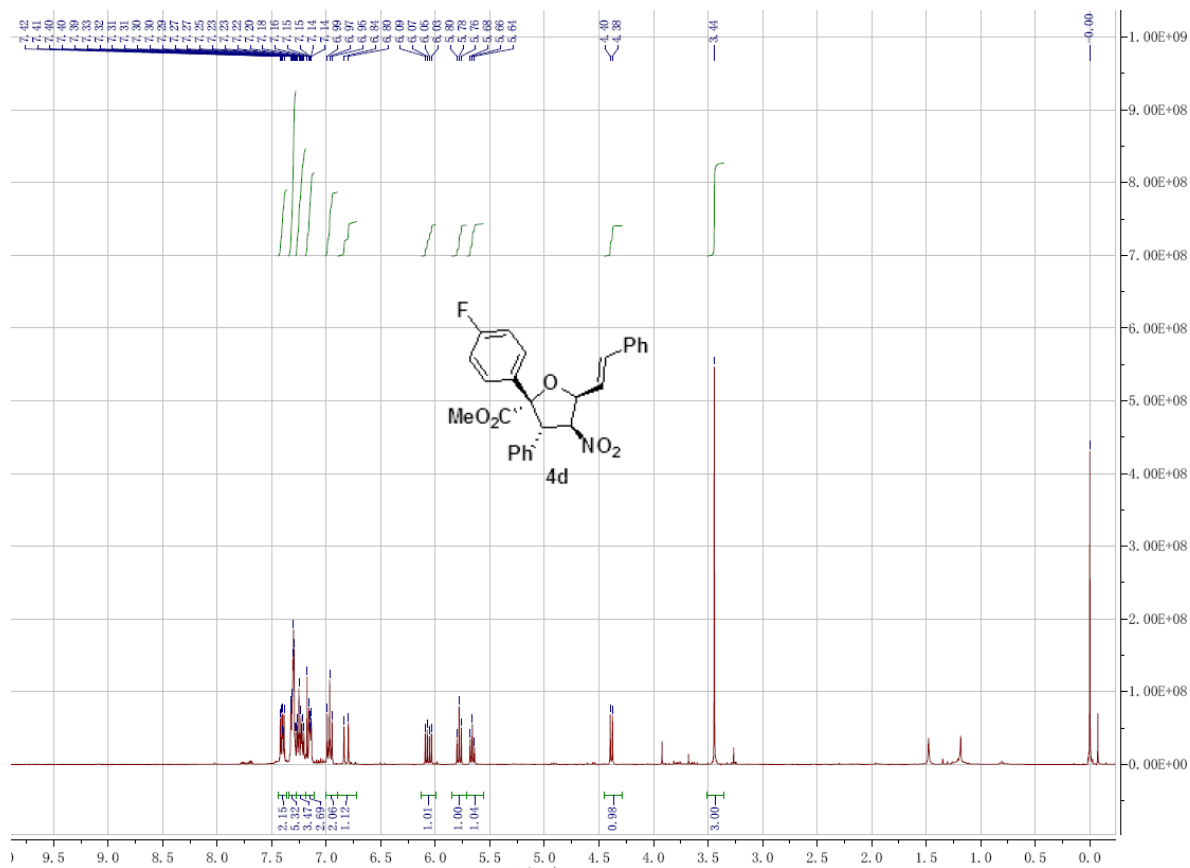
Bond precision:	C-C = 0.0022 Å	Wavelength=0.71073
Cell:	a=9.2228 (6) b=7.4537 (5) c=16.9570 (12)	alpha=90 beta=96.151 (2) gamma=90
Temperature:	296 K	
	Calculated	Reported
Volume	1158.98 (14)	1158.98 (14)
Space group	P 21	P2 (1)
Hall group	P 2yb	?
Moiety formula	C ₂₇ H ₂₅ N O ₆	?
Sum formula	C ₂₇ H ₂₅ N O ₆	C ₂₇ H ₂₅ N O ₆
Mr	459.48	459.48
D _x , g cm ⁻³	1.317	1.317
Z	2	2
Mu (mm ⁻¹)	0.093	0.093
F ₀₀₀	484.0	484.0
F ₀₀₀ '	484.25	
h, k, lmax	10, 8, 20	10, 8, 20
Nref	2204 [4066]	3663
Tmin, Tmax	0.968, 0.989	0.957, 0.989
Tmin'	0.956	
Correction method=	MULTI-SCAN	
Data completeness=	1.66/0.90 Theta(max)= 25.000	
R(reflections)=	0.0273 (3565) wR2(reflections)= 0.0731 (3663)	
S =	1.079 Npar= 307	

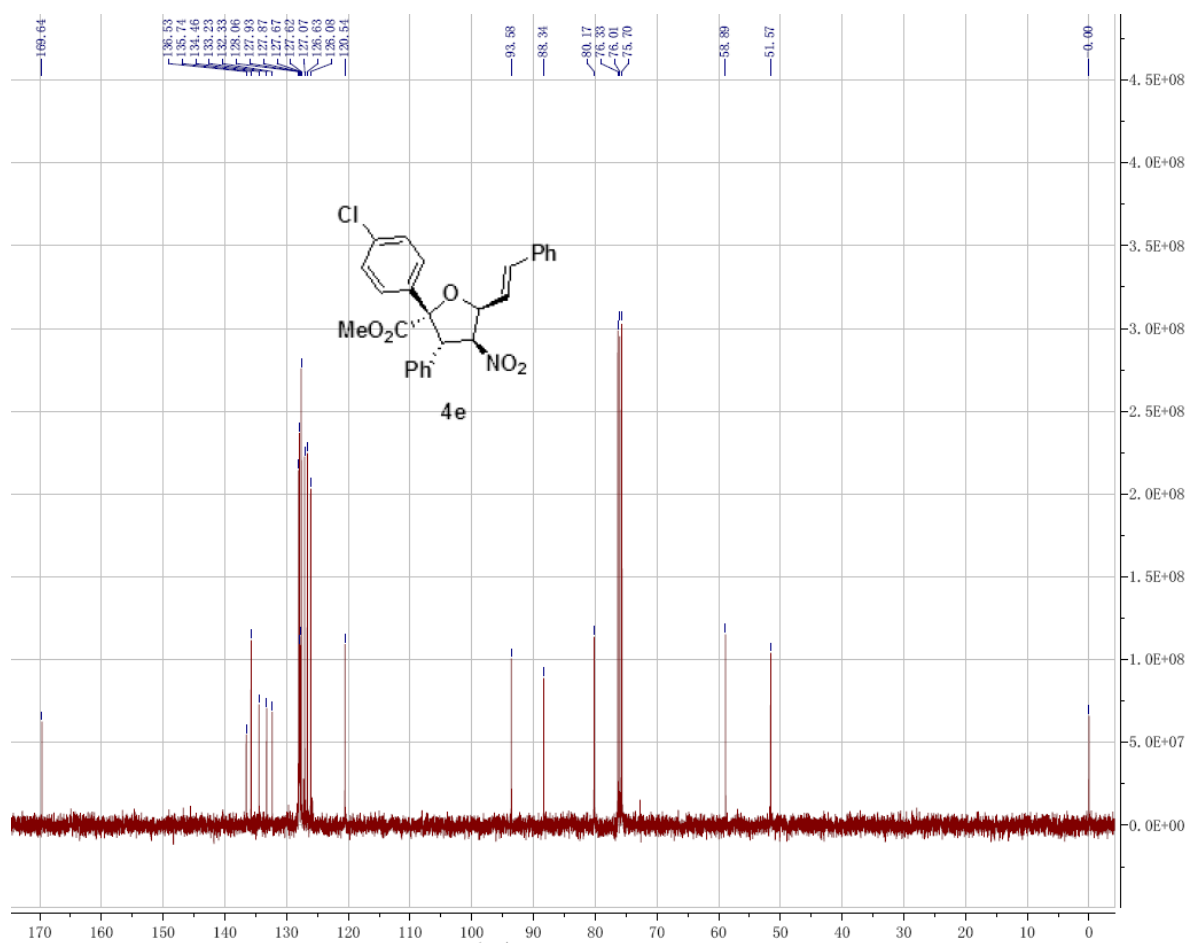
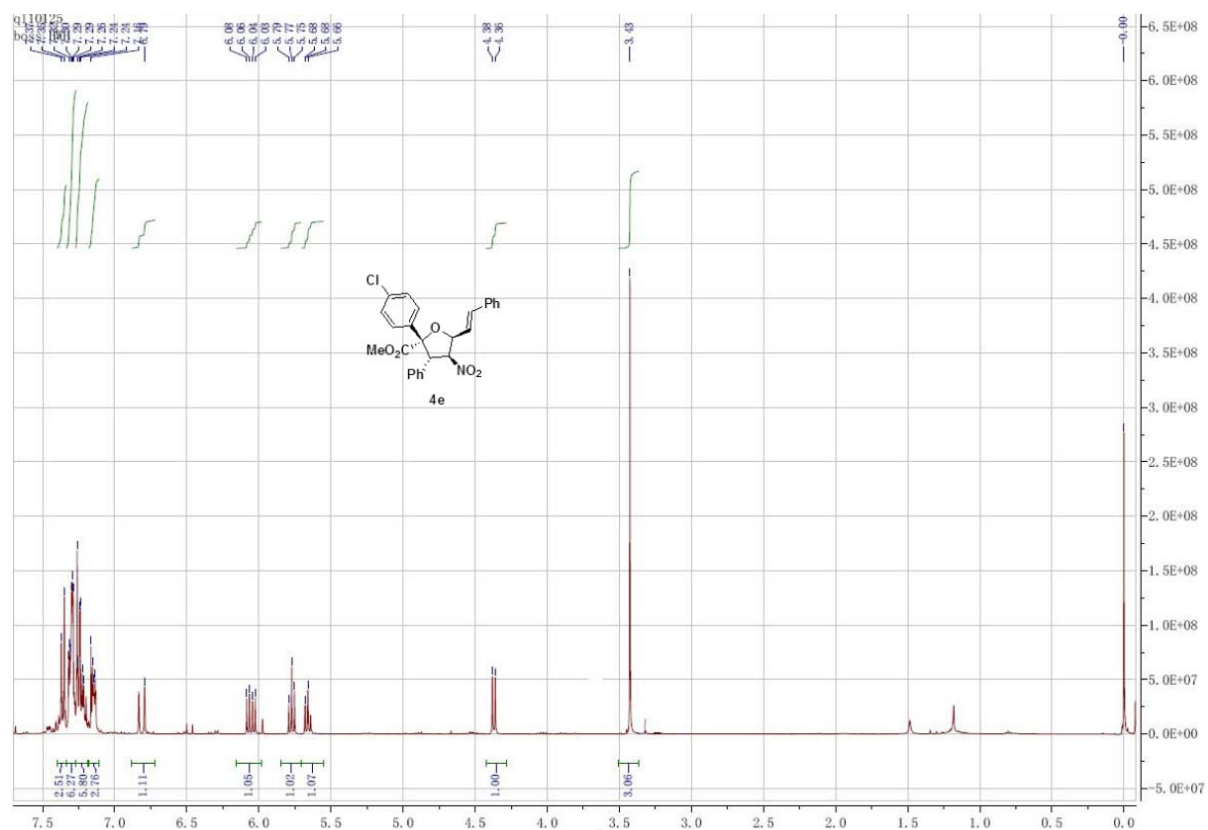
2. Characterization Data of Products

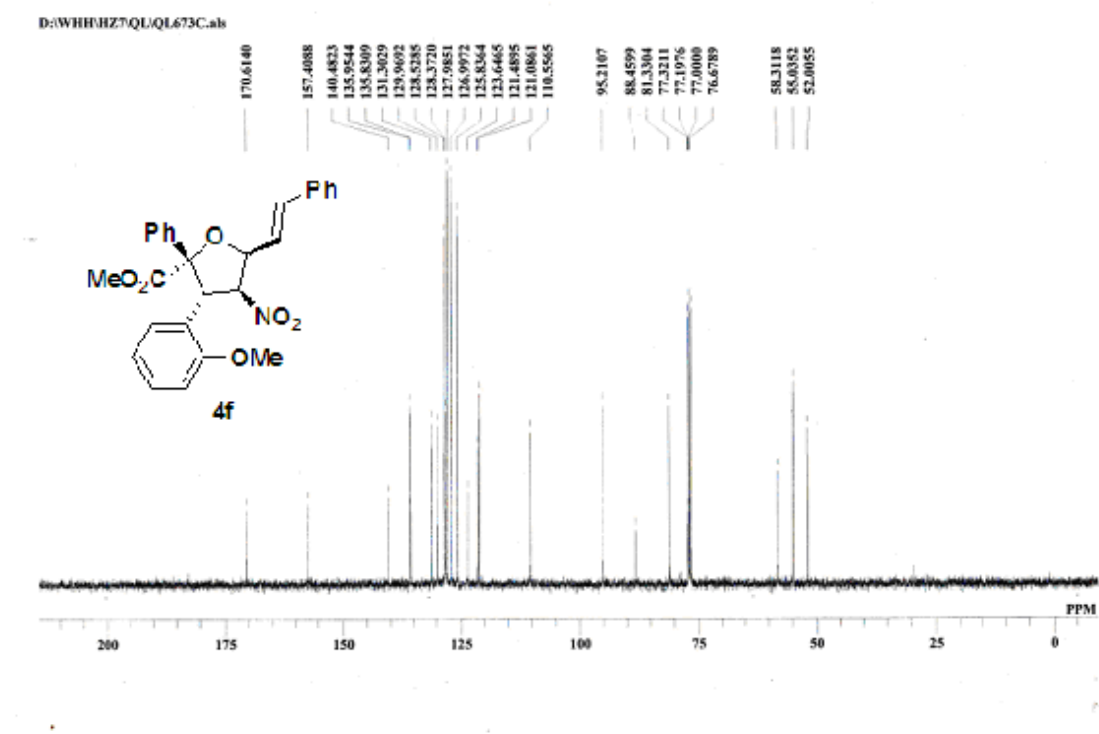
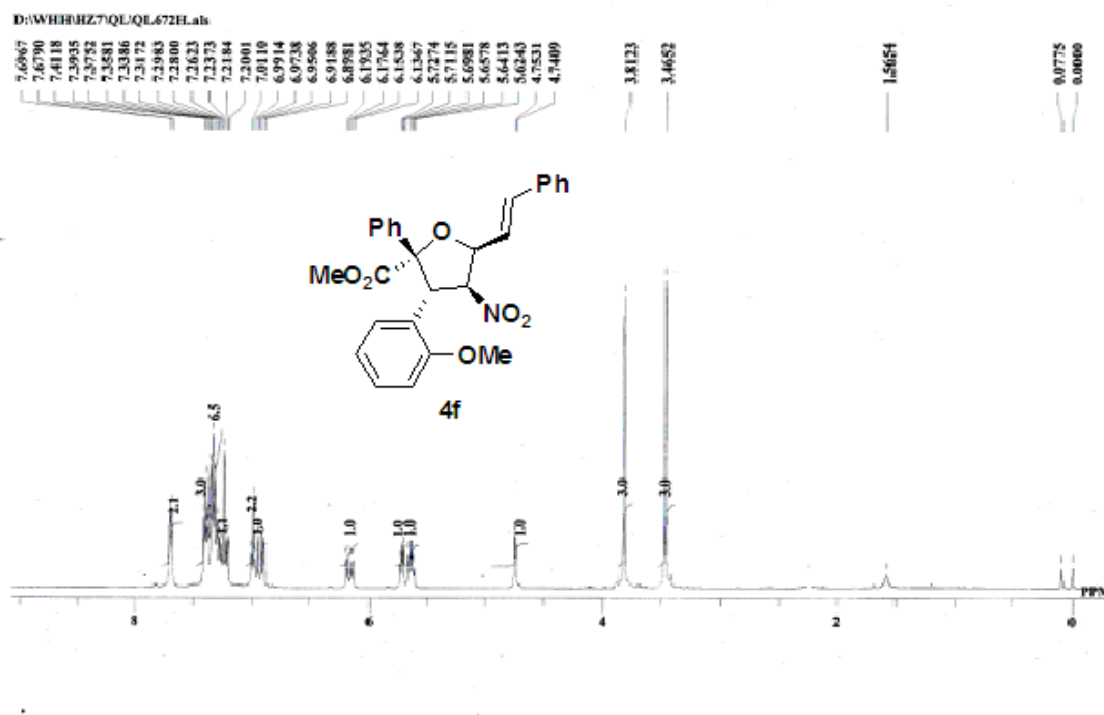


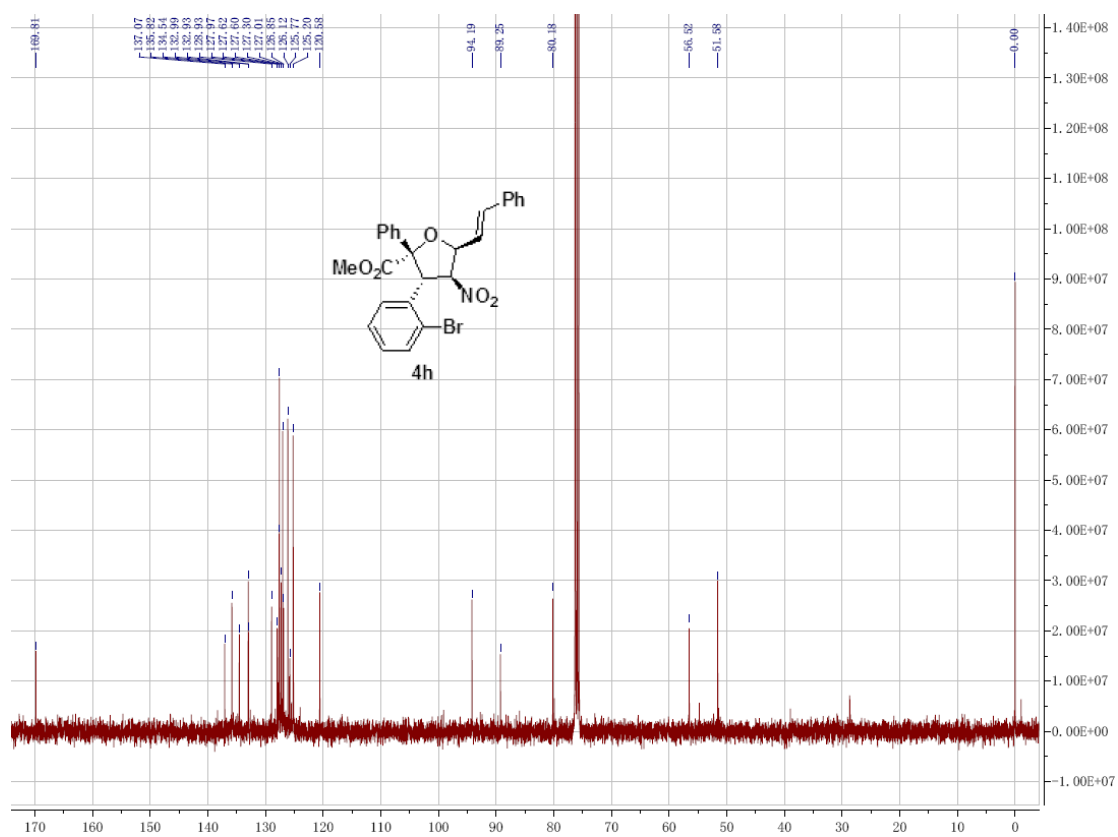
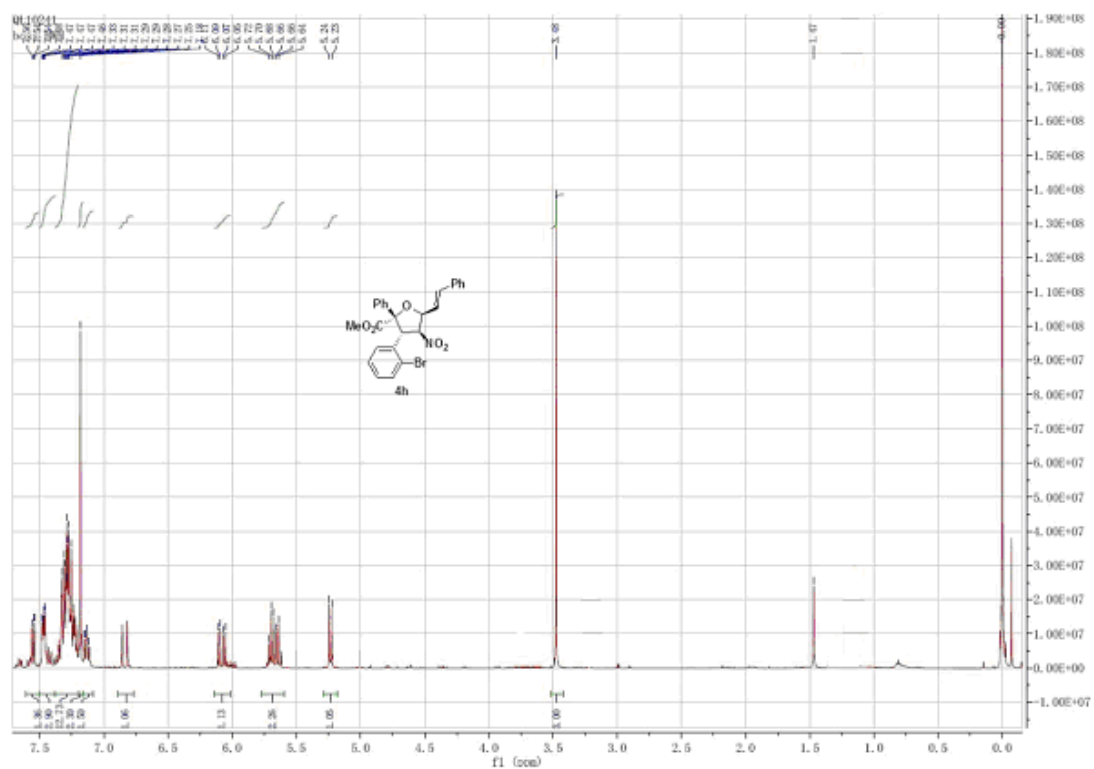


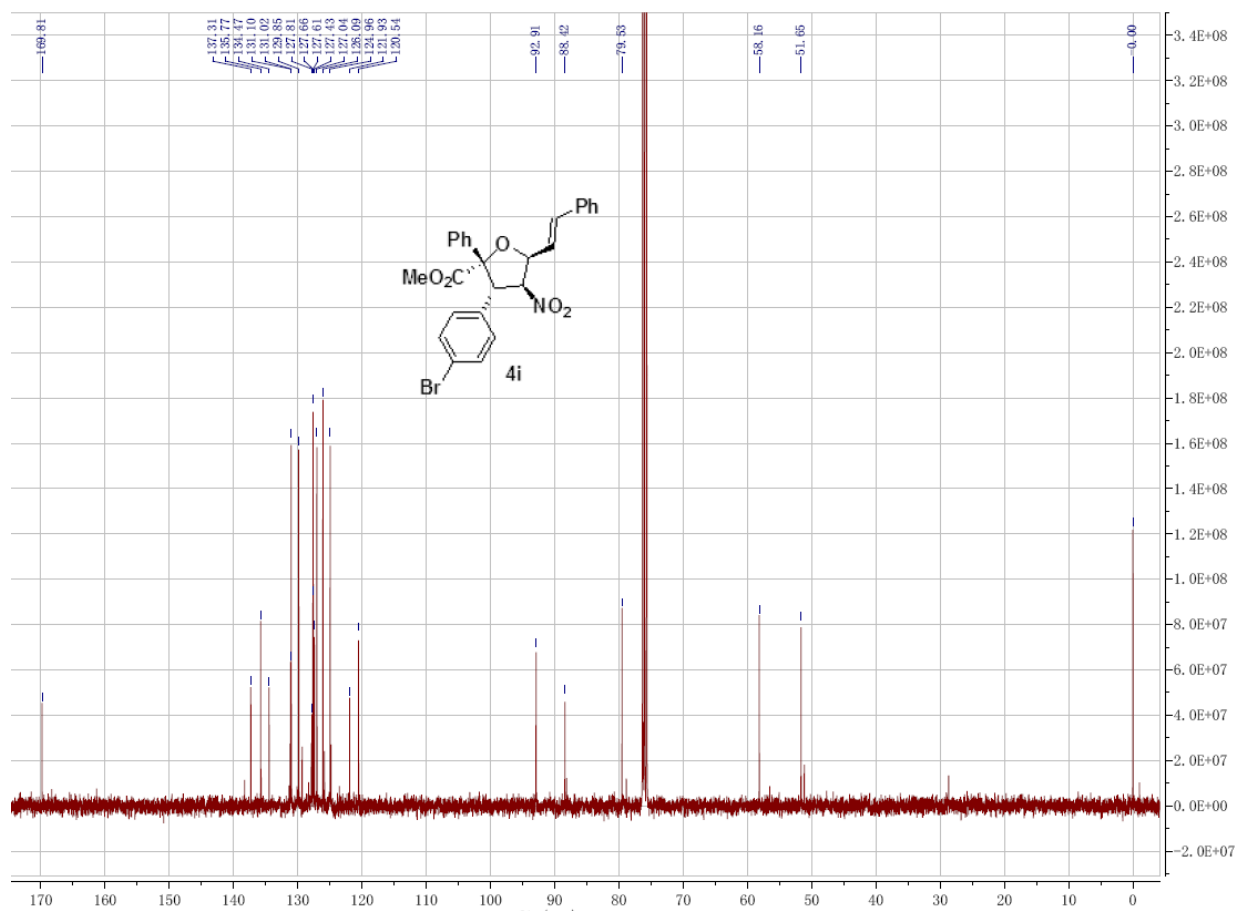
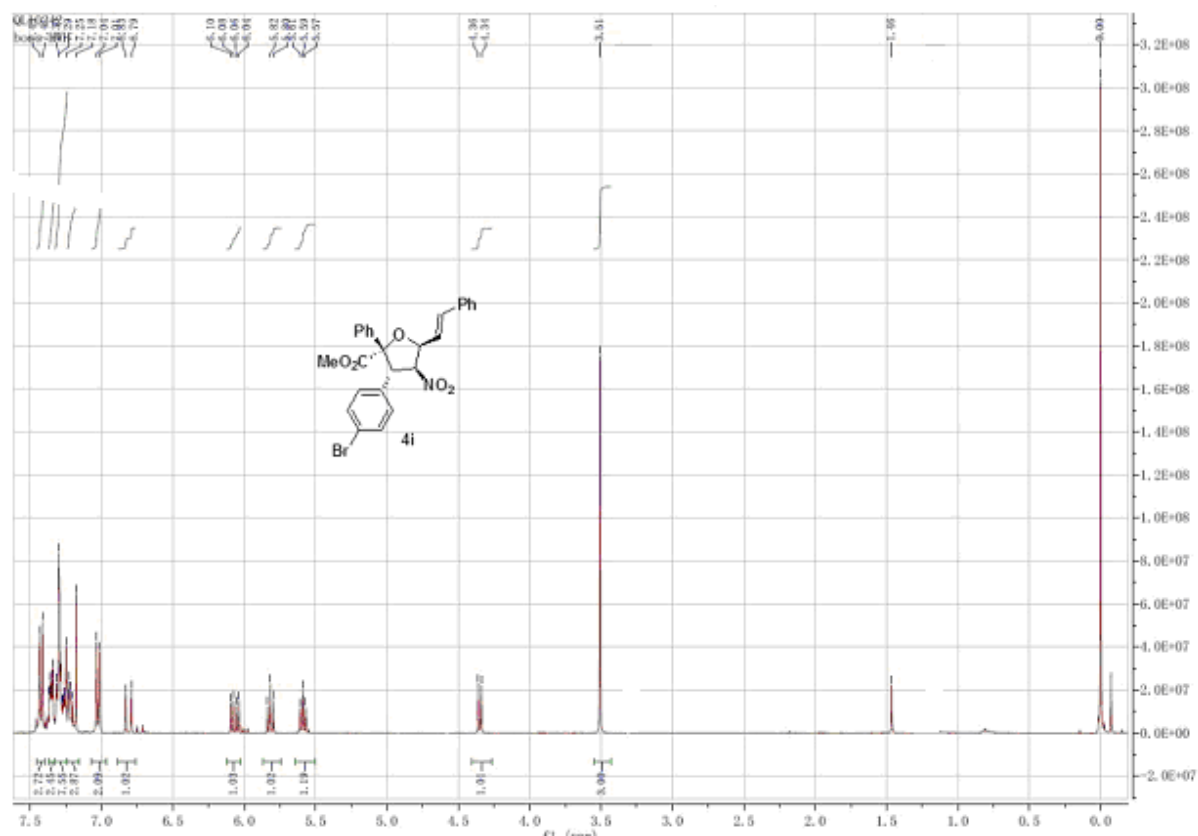


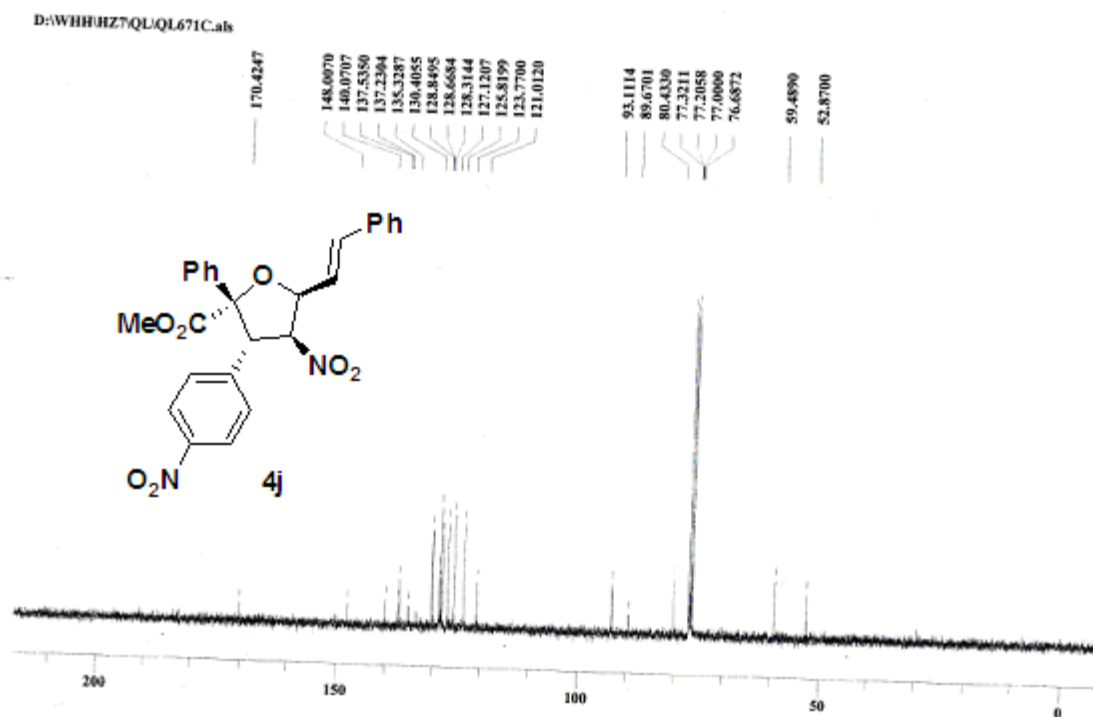
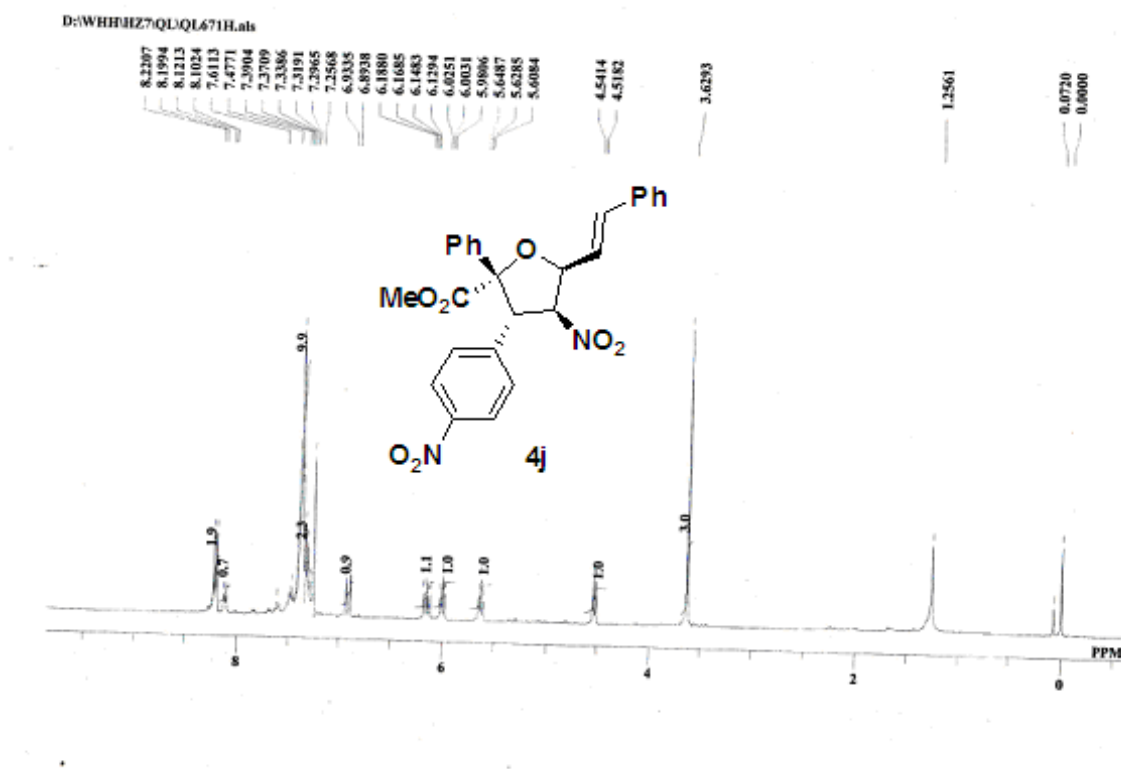


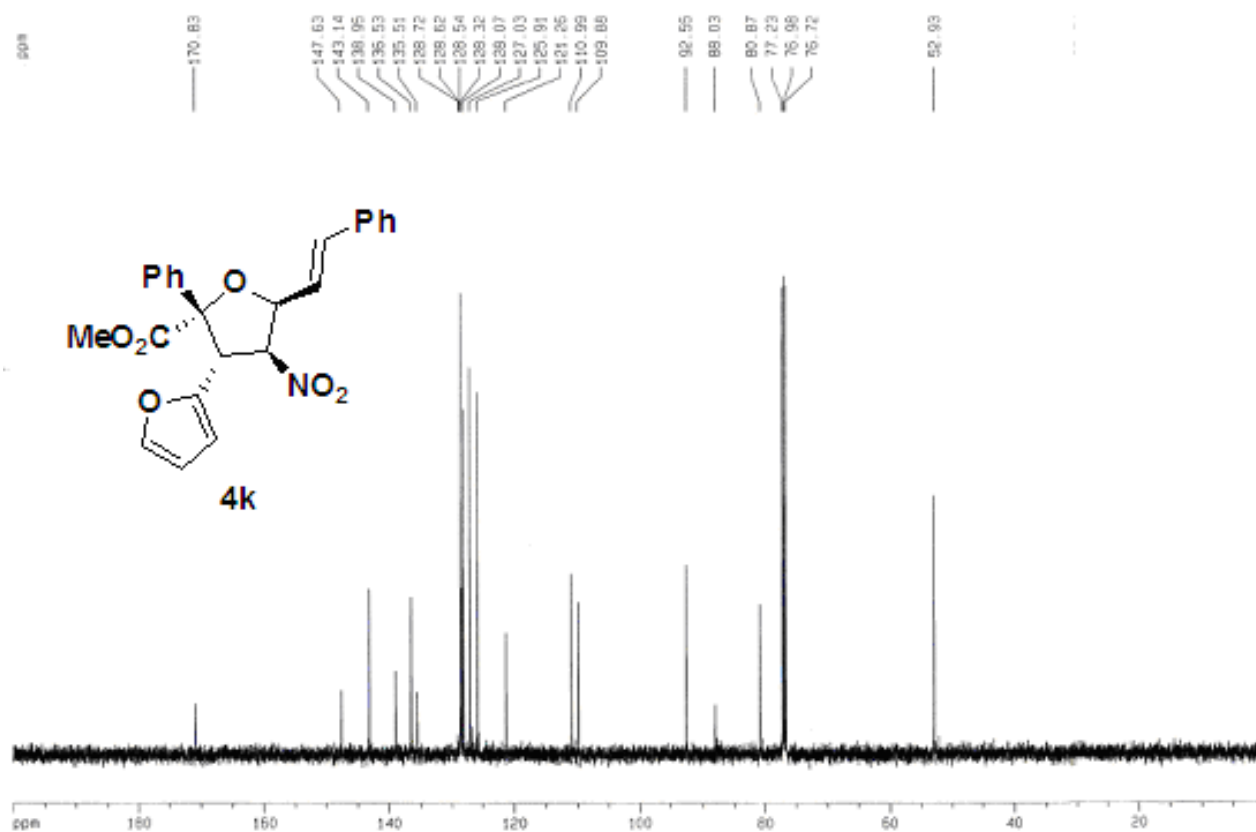
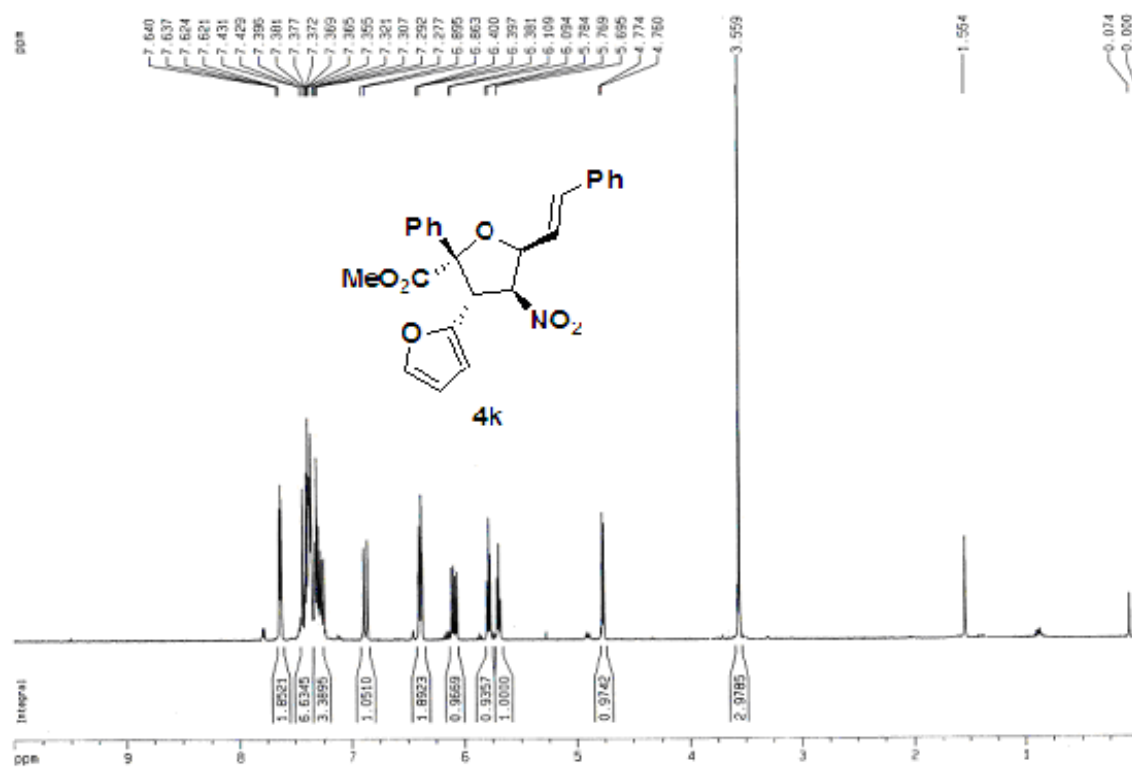


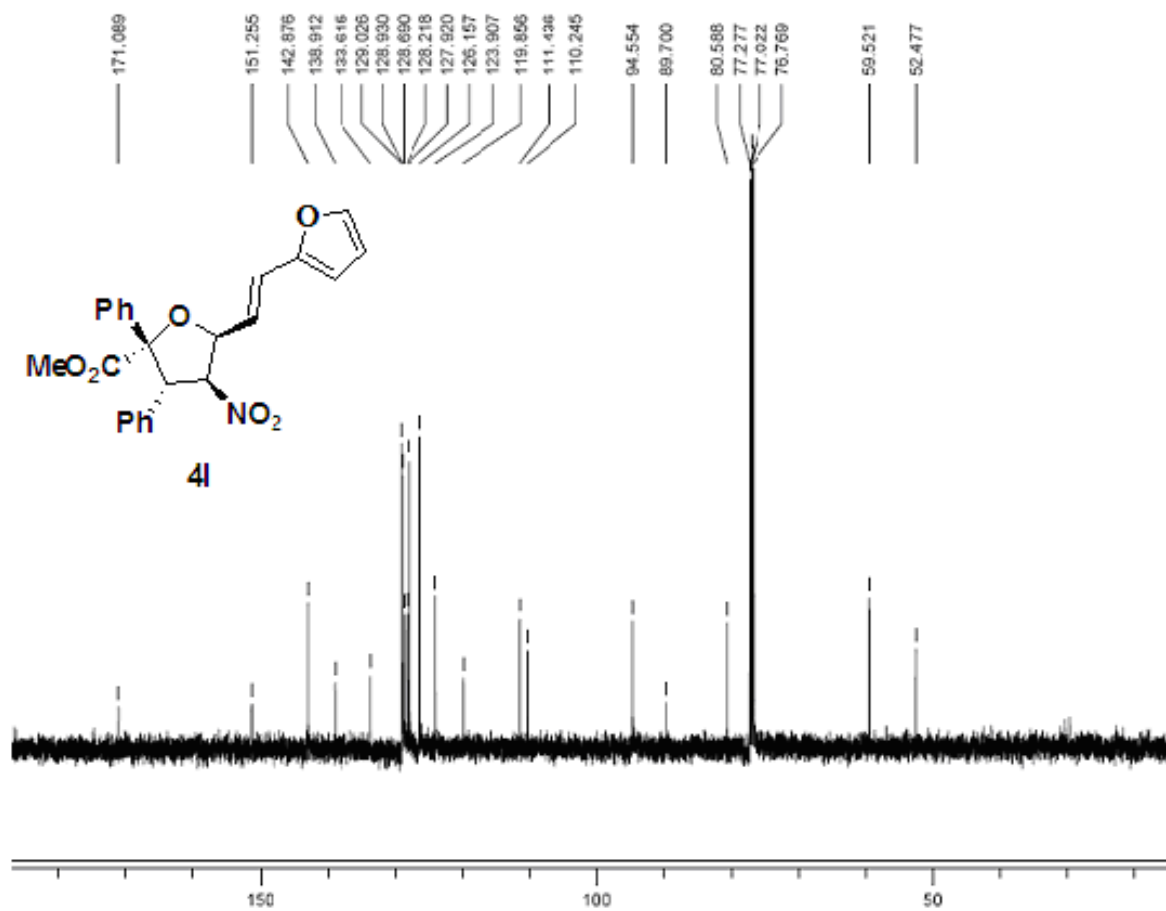
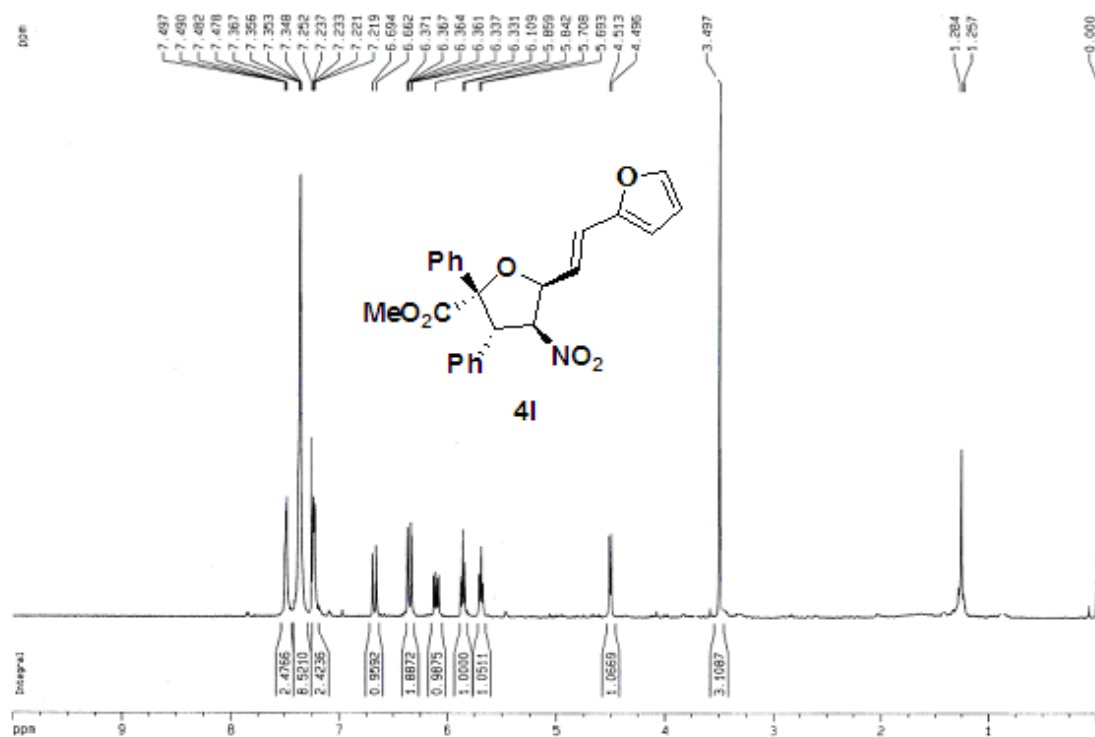


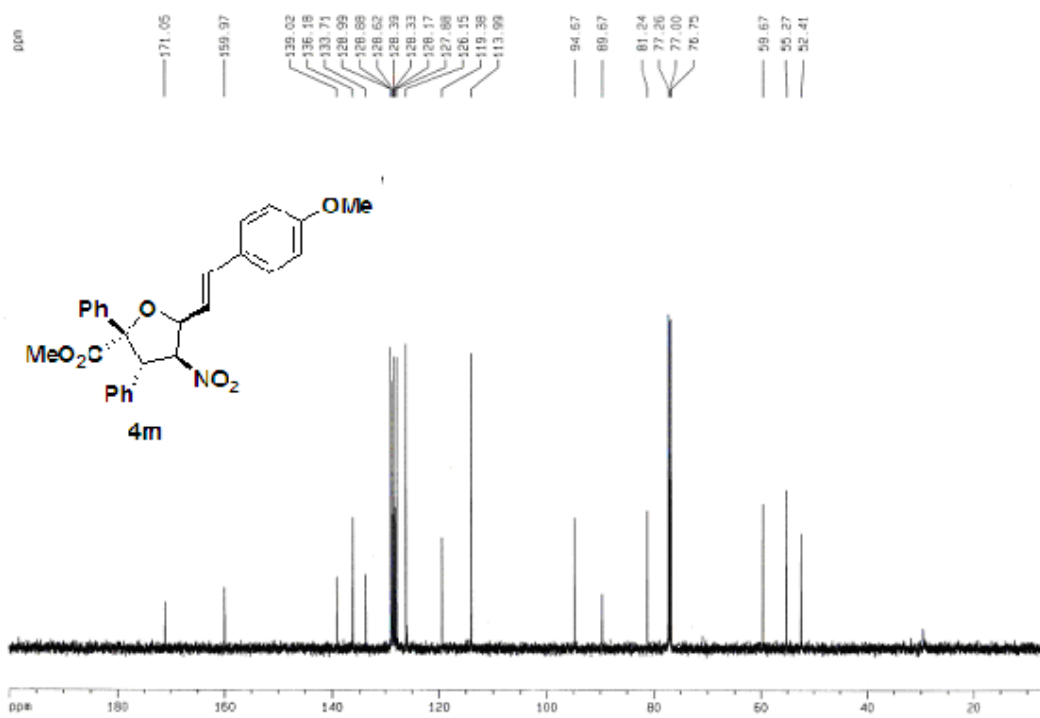
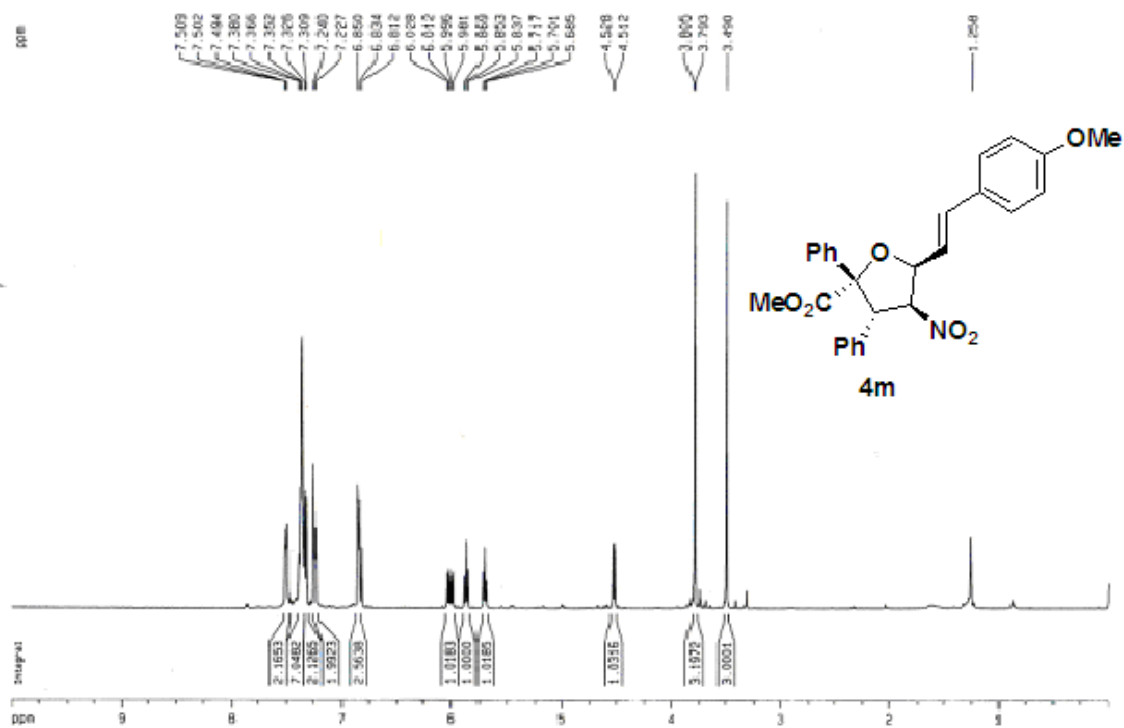


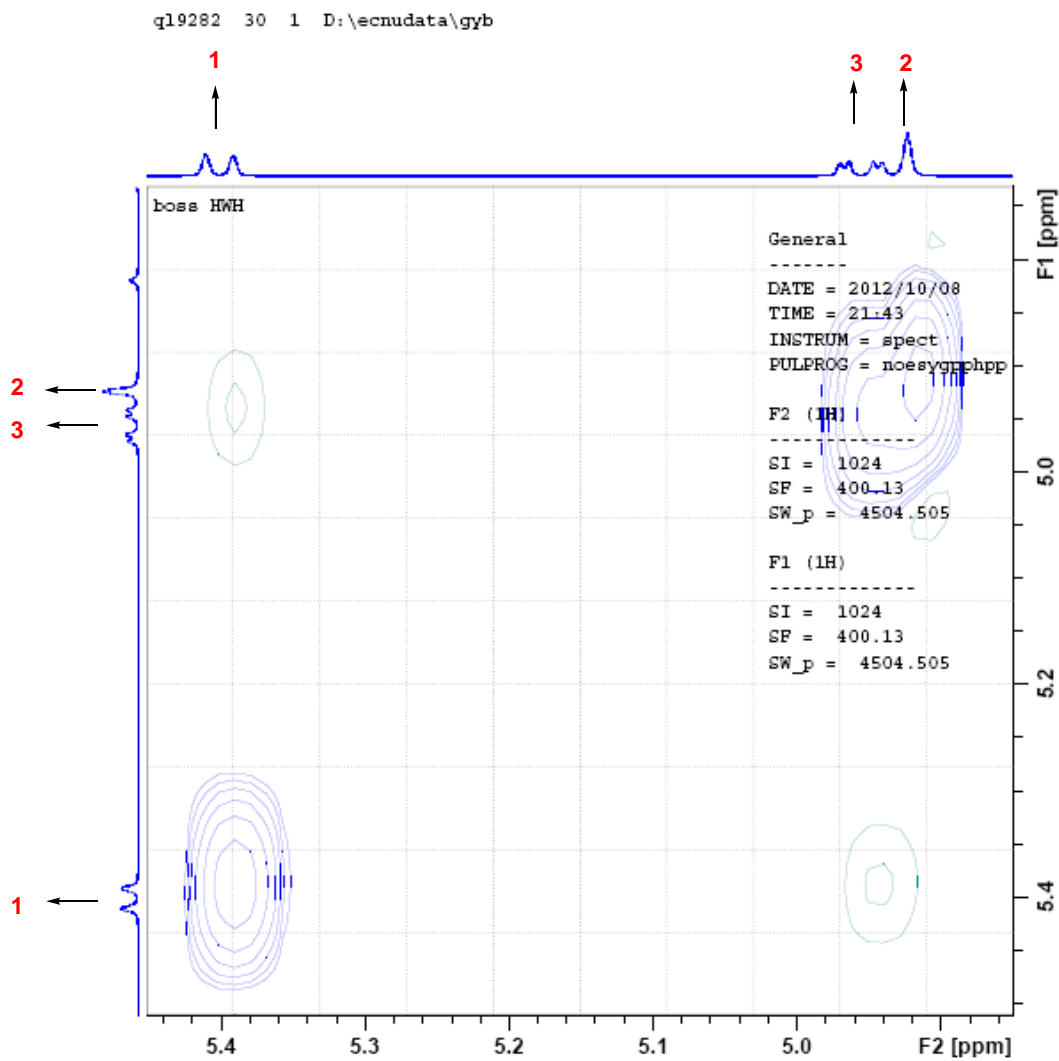
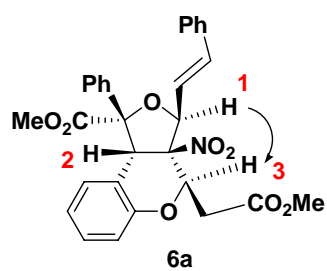












4. ^1H NMR NOESY spectrum of **4h** Minor Diastereomer

