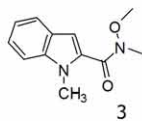


A new Class of Conjugated Strigolactone Analogues with Fluorescent Properties: Synthesis and Biological Activity

Chiranjib Bhattacharya, Paola Bonfante, Annamaria Deagostino, Yoram Kapulnik, Paolo Larini, Ernesto G. Occhiato, Cristina Prandi, Paolo Venturello

Supporting Information

Compound 3 , ^1H and ^{13}C spectra	S3
Compound 4 , ^1H and ^{13}C spectra	S4
Compound 5 , ^1H and ^{13}C spectra	S5
Compound 13 , ^1H and ^{13}C spectra	S6
Compound 14 , ^1H and ^{13}C spectra	S7
Compound 15 , ^1H and ^{13}C spectra	S8
Compound 31 , ^1H and ^{13}C spectra	S9
Compound 32 , ^1H and ^{13}C spectra	S10

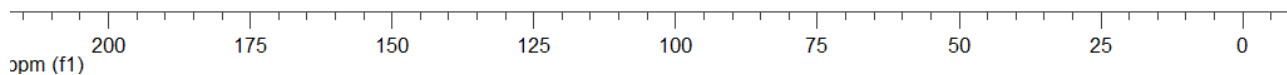
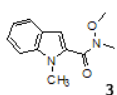
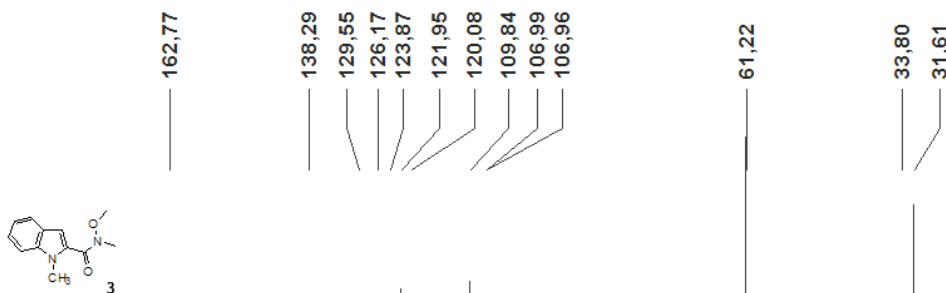
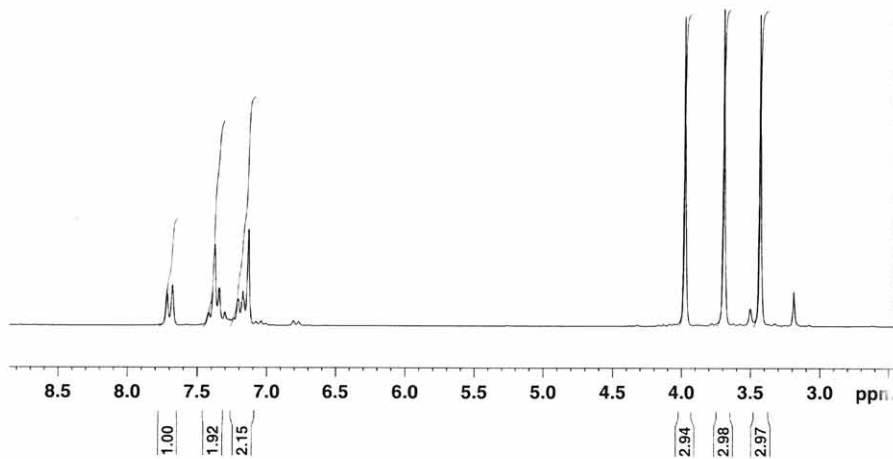


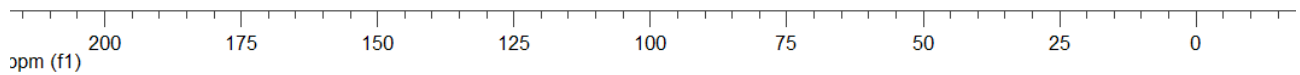
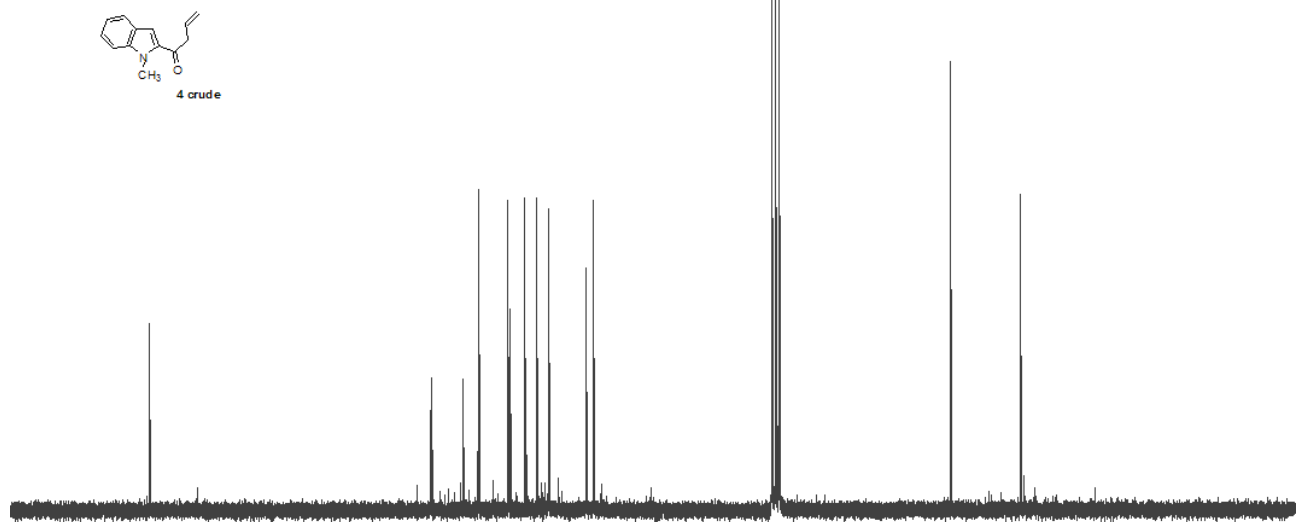
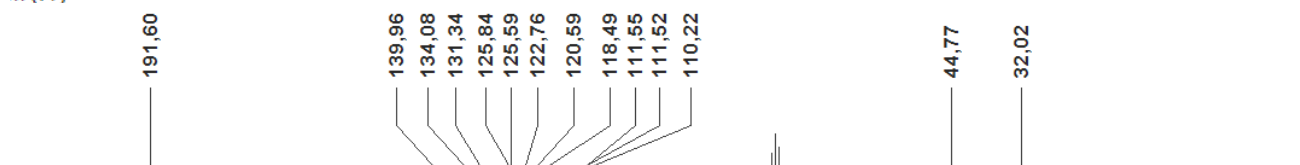
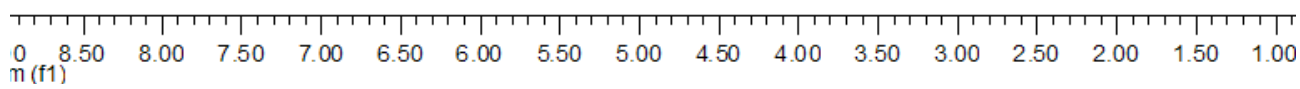
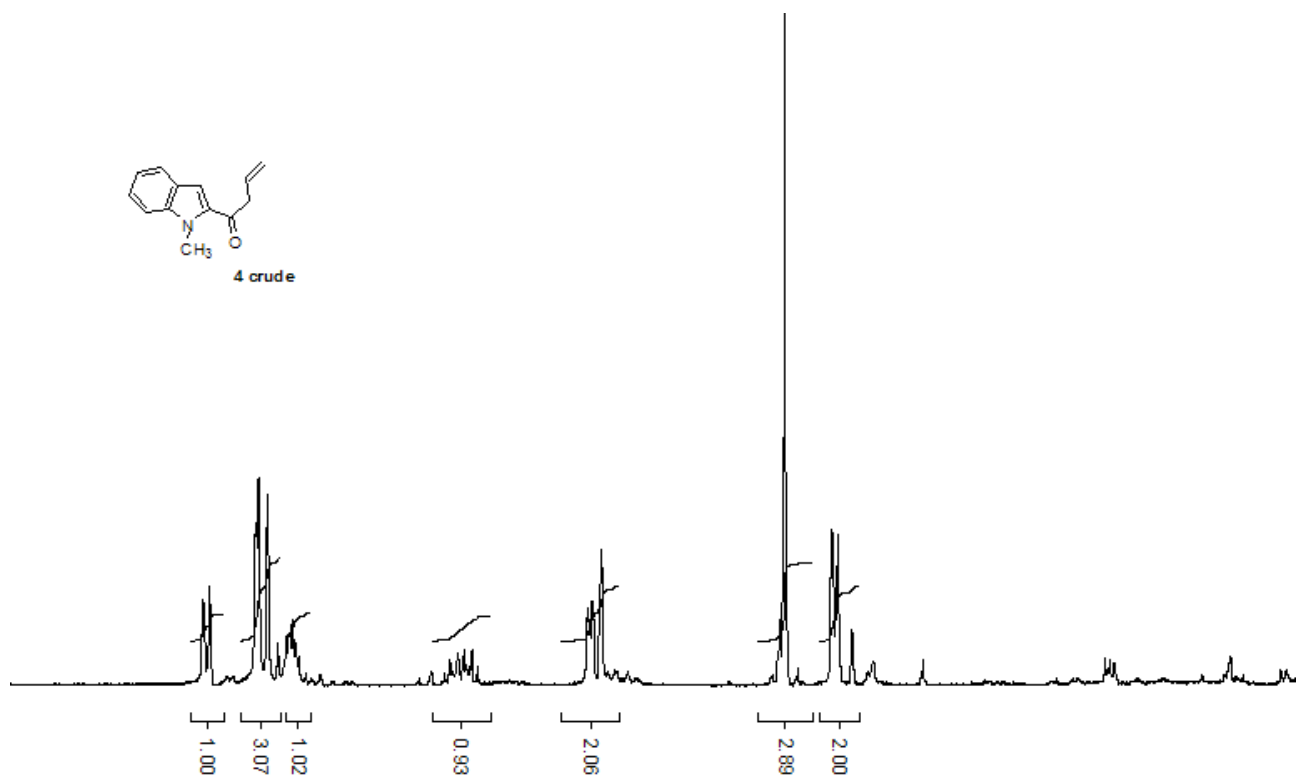
Current Data Parameters
 NAME CRIAMMIDE
 EXPNO 1
 PROCNO 1

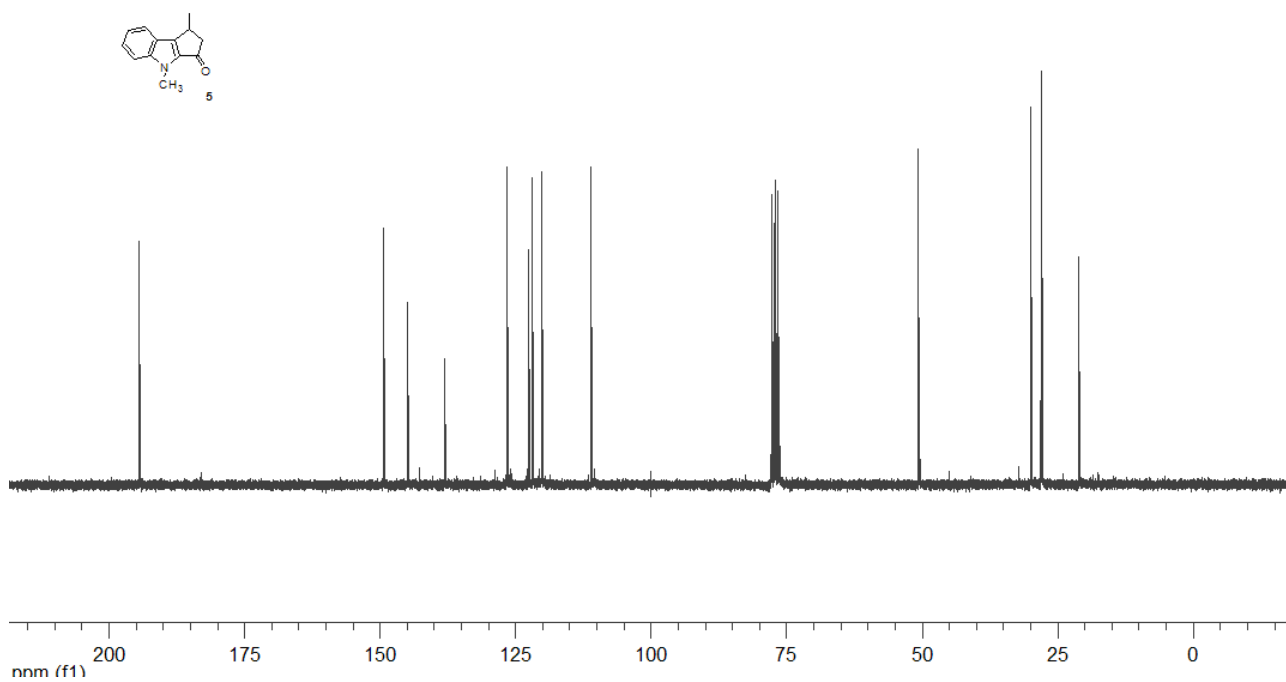
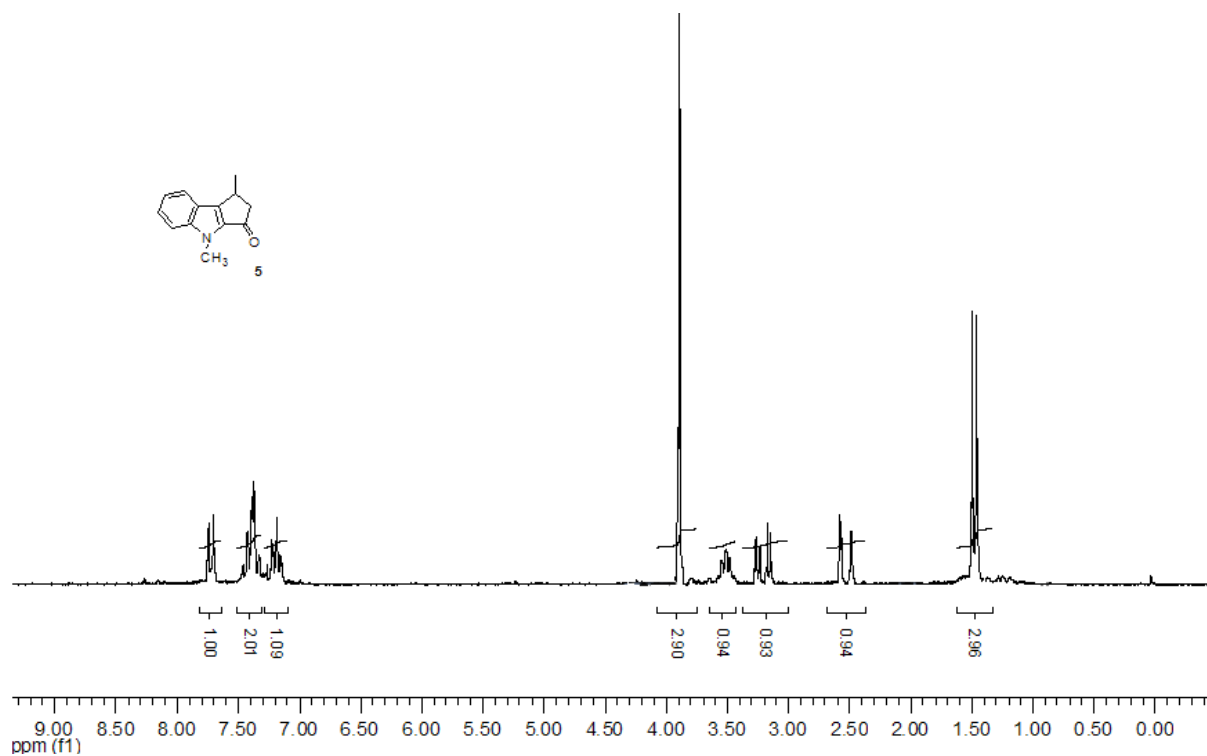
F2 - Acquisition Parameters
 Date_ 20080124
 Time 18.14
 INSTRUM av200
 PROBHD 5 mm DUL 13C-1
 PULPROG zg30
 TD 32768
 SOLVENT CDCl3
 NS 32
 DS 0
 SWH 4006.410 Hz
 FIDRES 0.122266 Hz
 AQ 4.0894966 sec
 RG 114
 DW 124.800 usec
 DE 6.00 usec
 TE 294.1 K
 D1 1.0000000 sec
 MCREST 0.0000000 sec
 MCWPK 0.0150000 sec

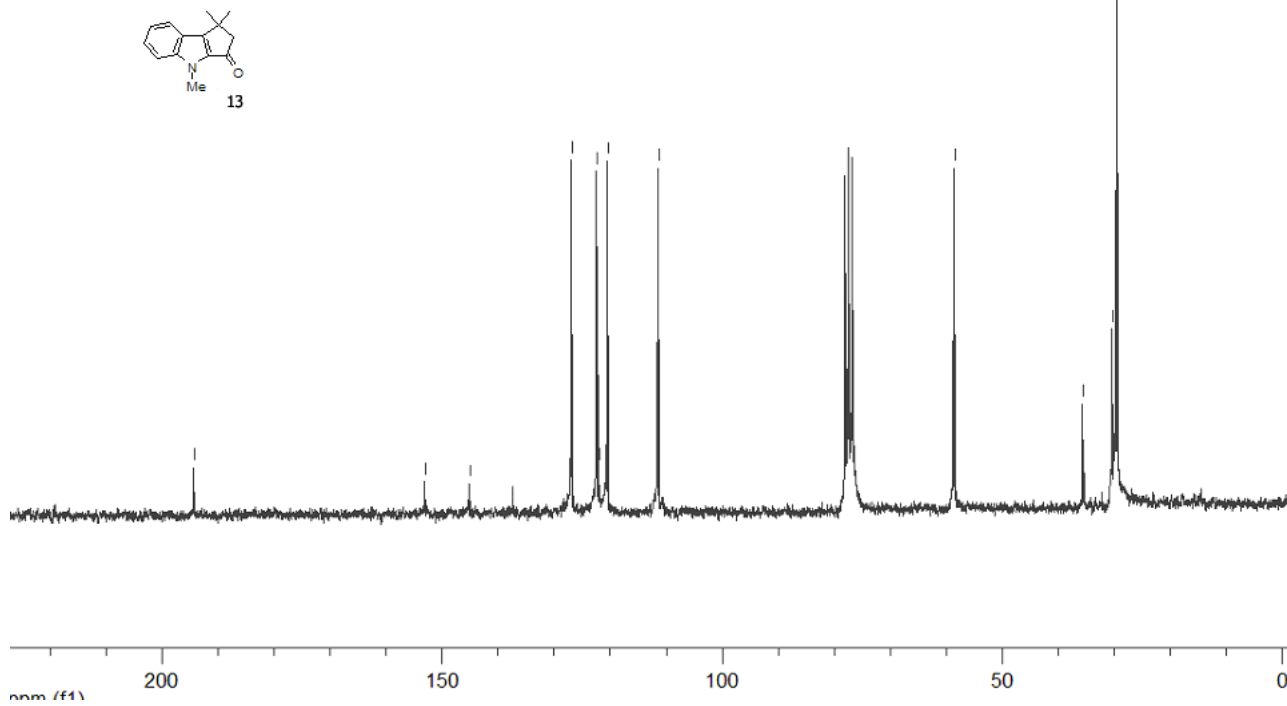
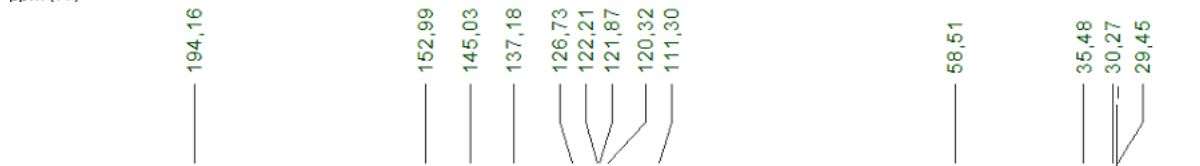
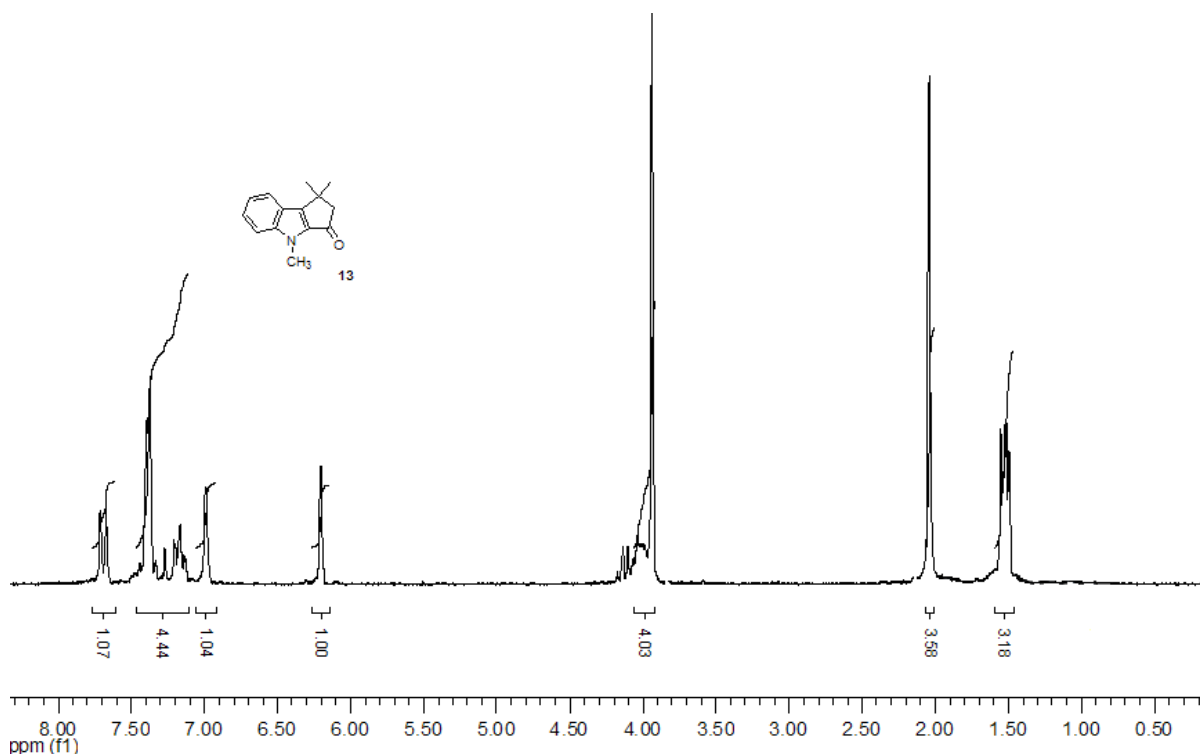
===== CHANNEL f1 =====
 NUC1 1H
 P1 10.00 usec
 PL1 -1.50 dB
 SF01 200.1307214 MHz

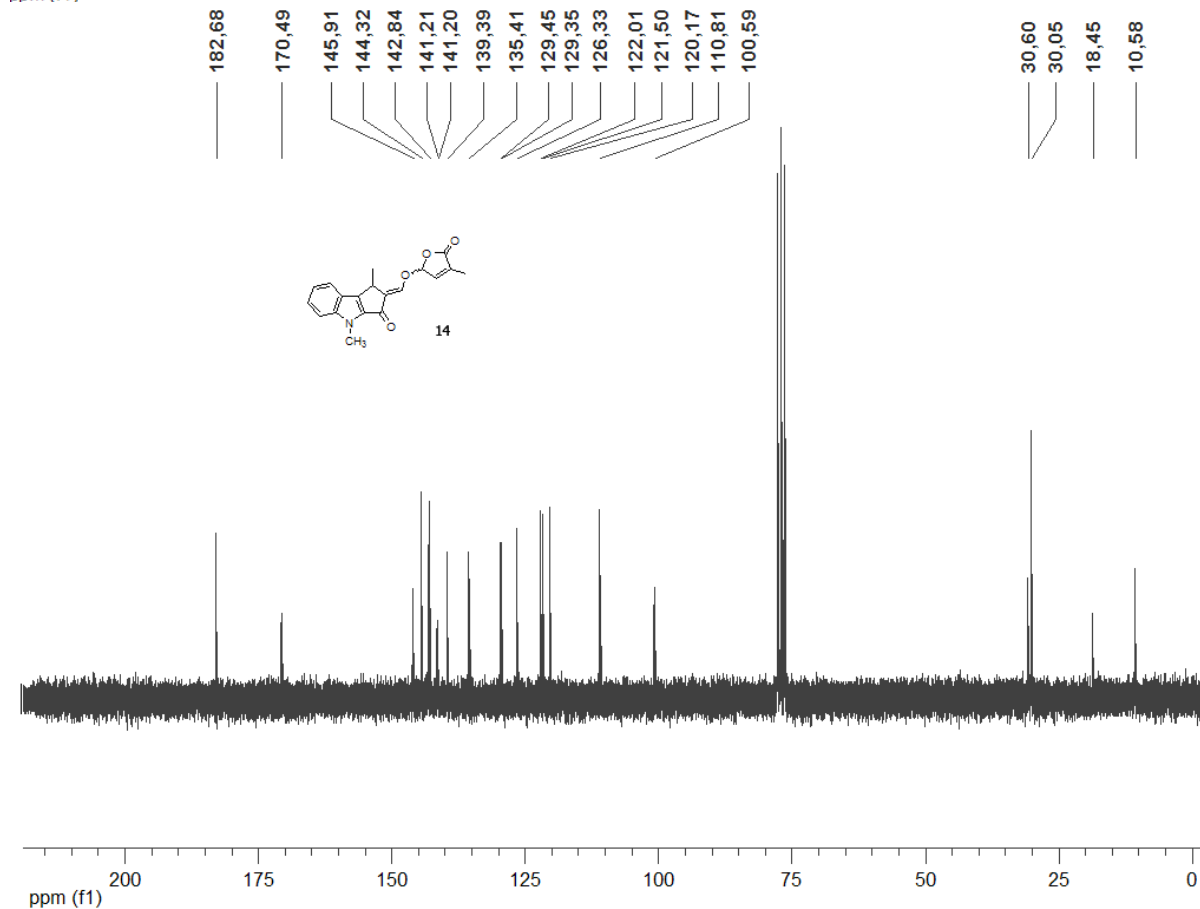
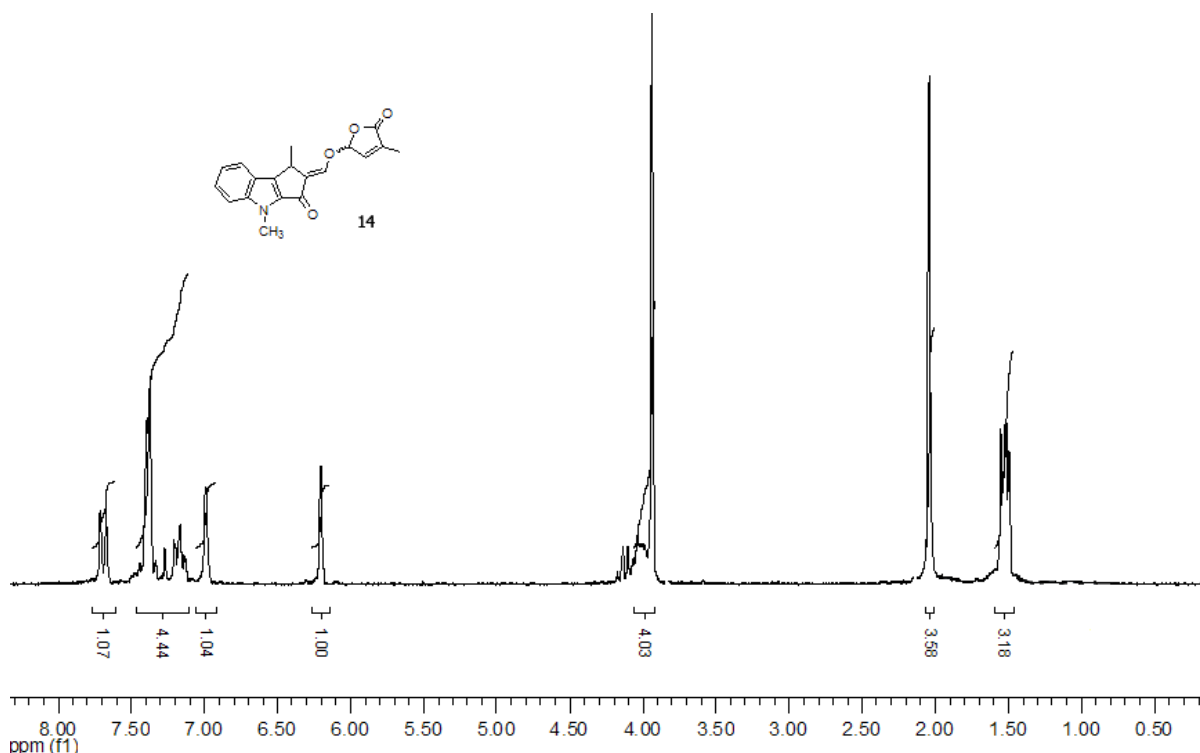
F2 - Processing parameters
 SI 32768
 SF 200.1300000 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

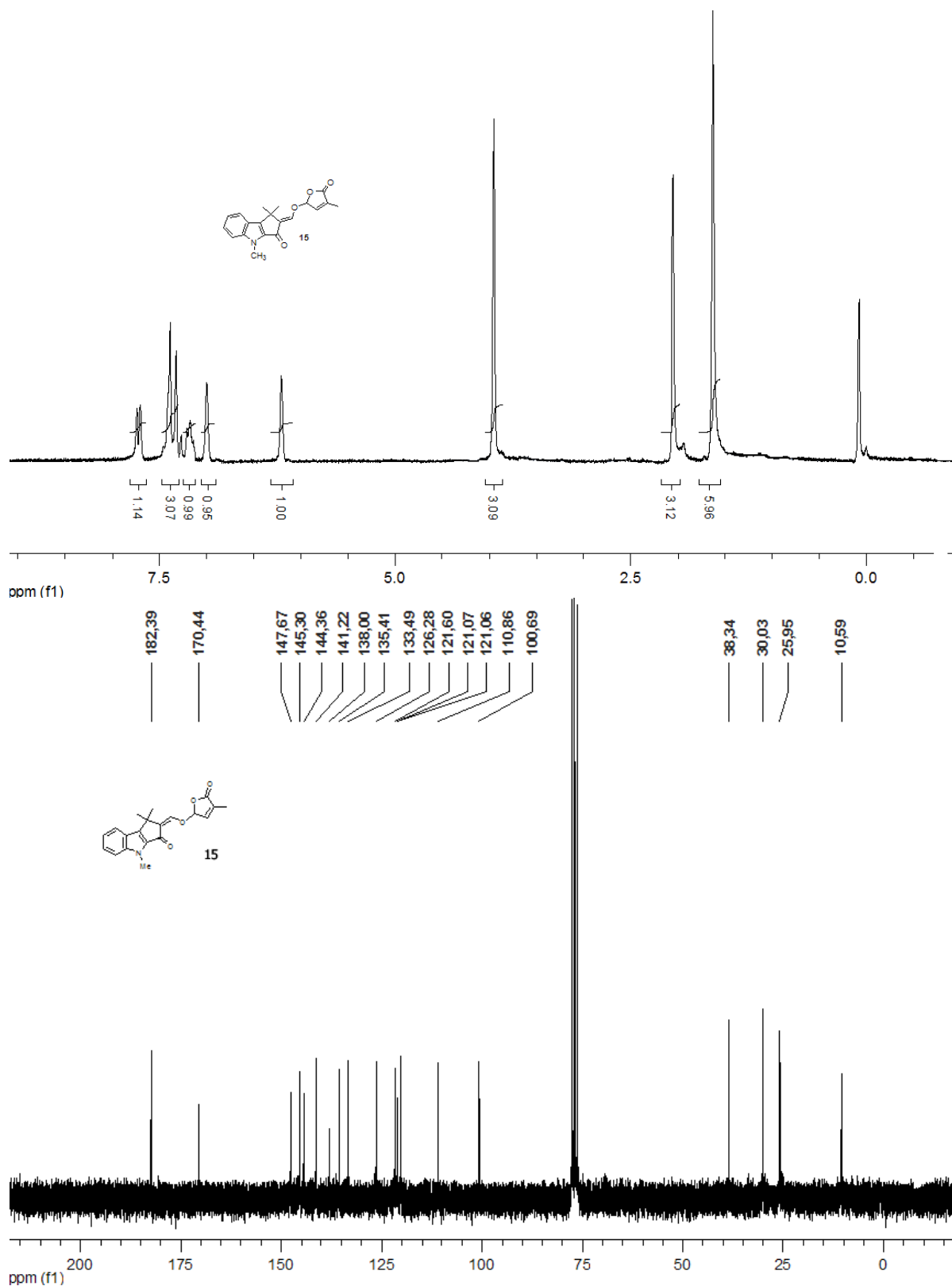


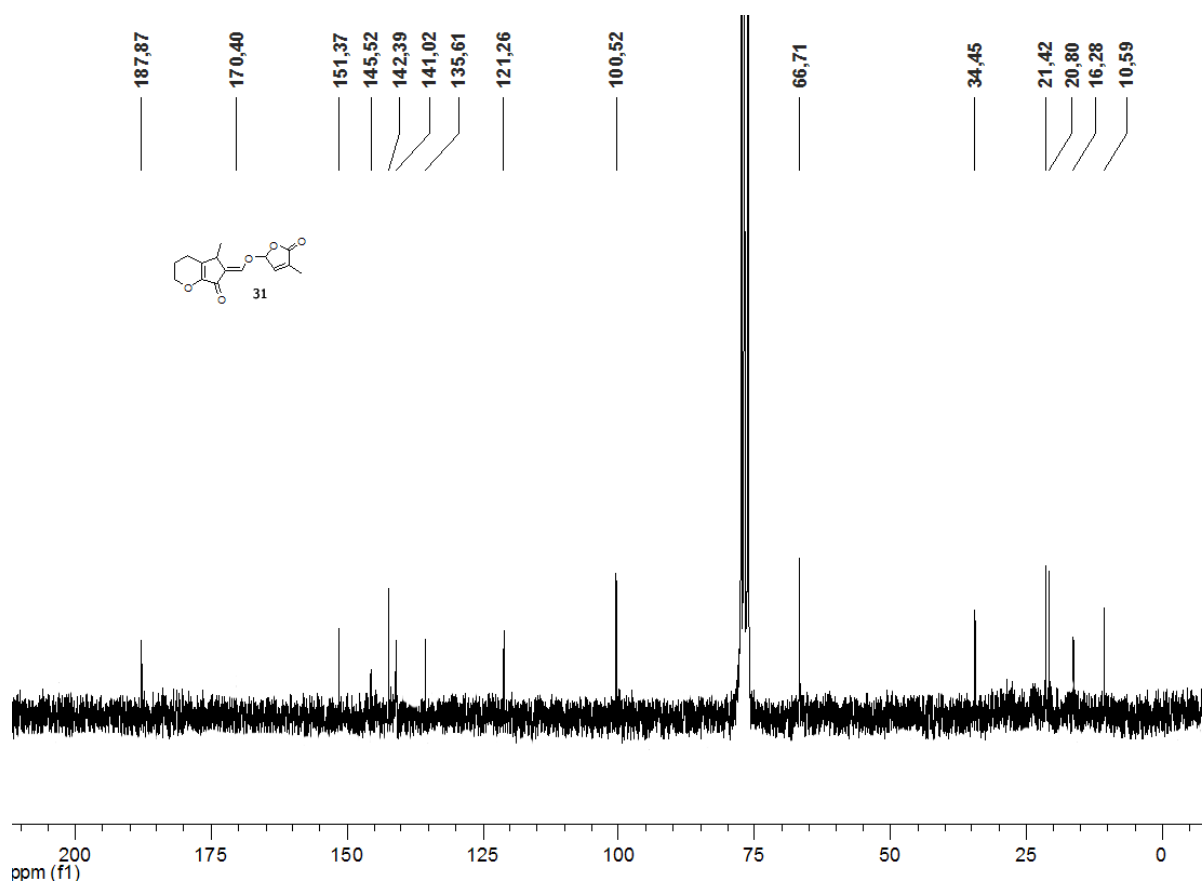
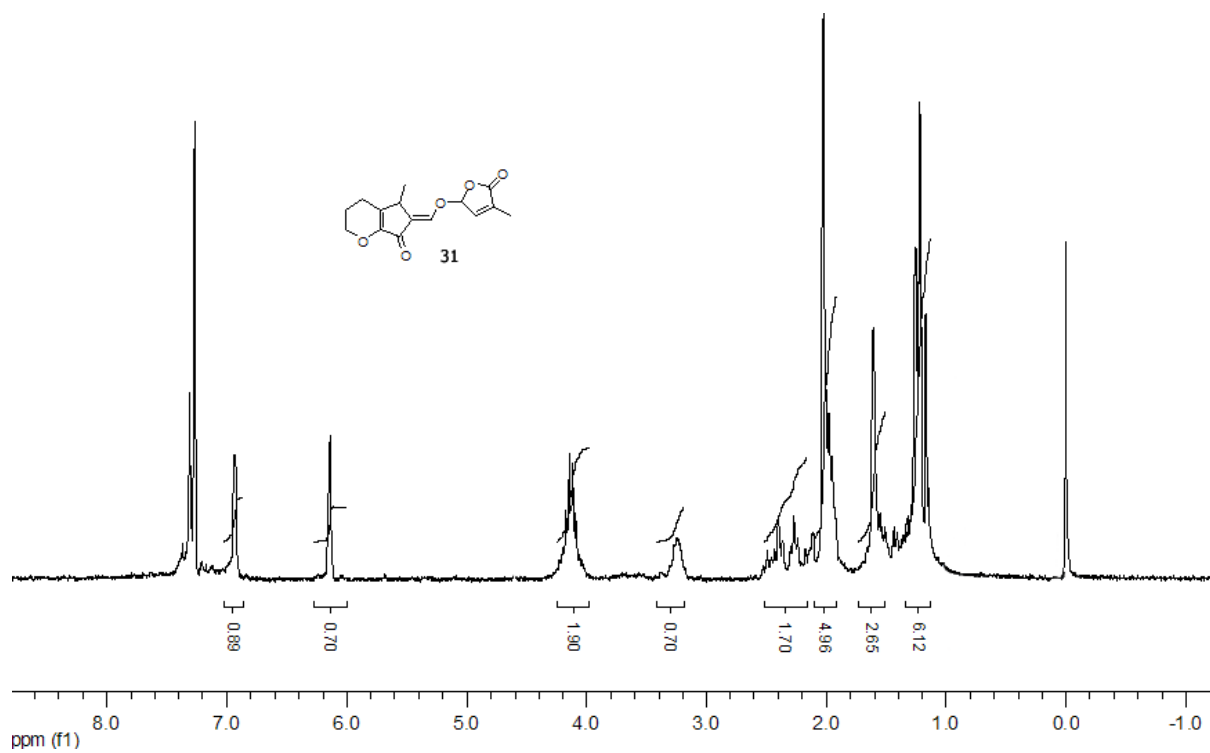


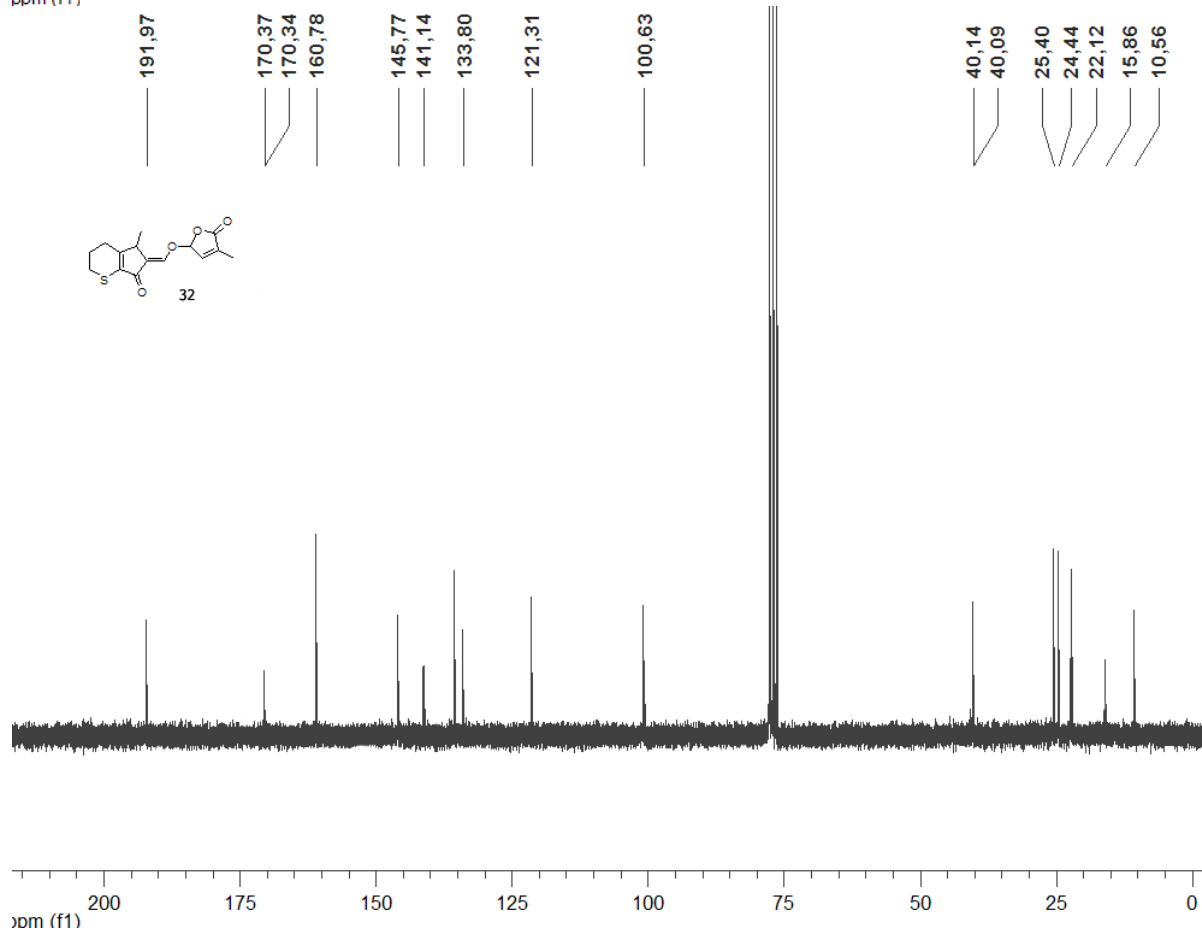
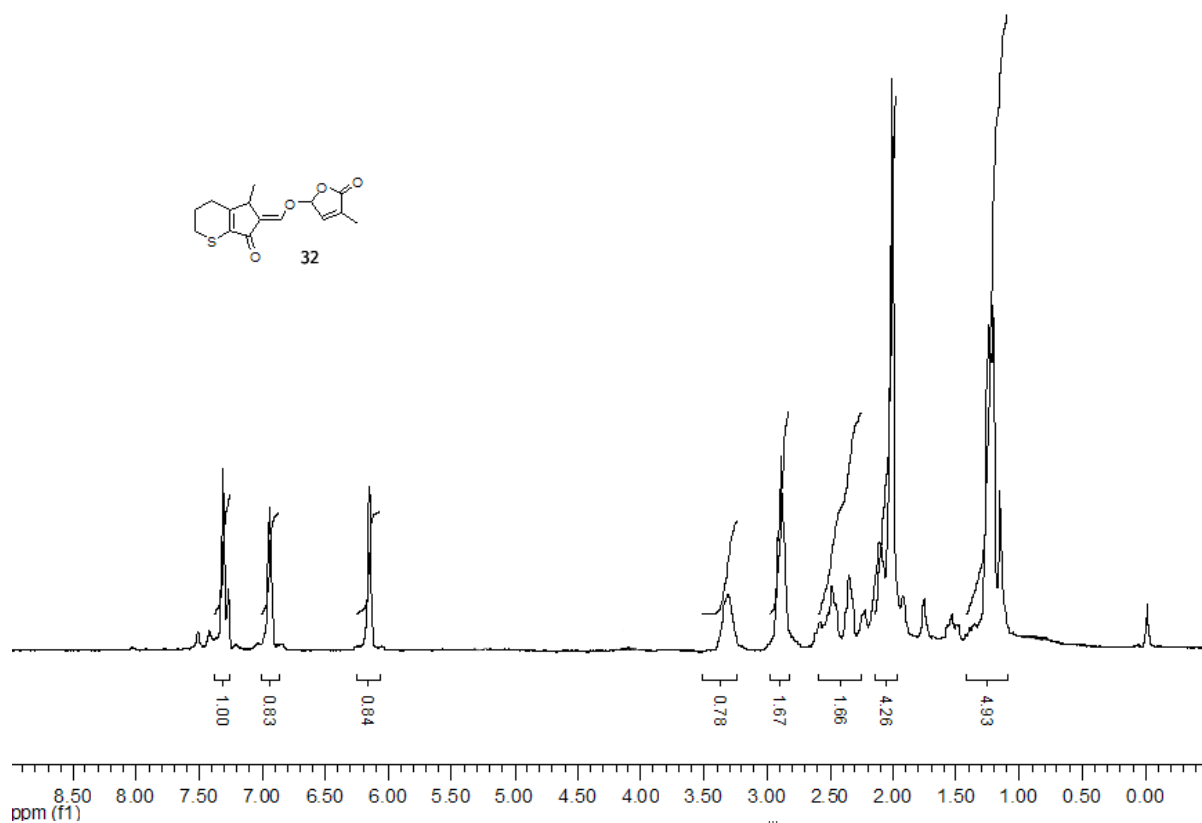






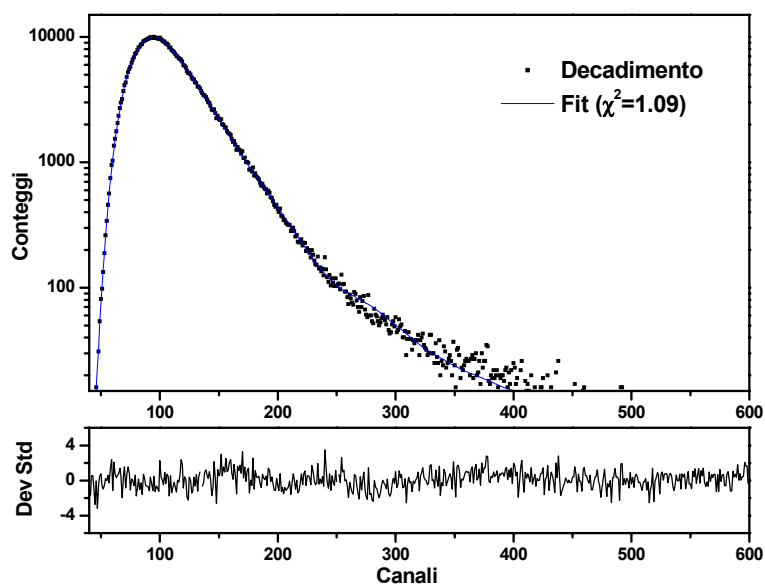






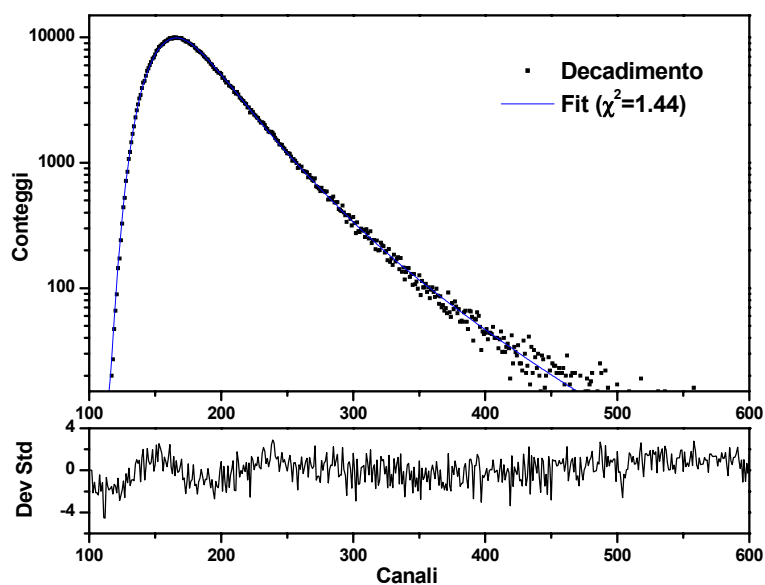
Fluorescence lifetimes were measured using a time-correlated single photon counting (TCSPC) technique (Horiba Jobin Yvon) with excitation source NanoLed at 297 nm (Horiba) and impulse repetition rate of 1 MHz at 90° to a TBX-4 detector. The detector was set to 380 nm (**5**) or 426 nm (**14**) with a 2 nm band pass. The instrument was set in the Reverse TAC mode, where the first detected photon represented the start signal by the time-to-amplitude converter (TAC), and the excitation pulse triggered the stop signal. DAS6 decay analysis software was used for lifetime calculation.

Compound **5**



Fit with biexponential curve ($\chi^2 = 1.09$) $\tau_1 = 0.66$ ns (97.54%), $\tau_2 = 4.18$ ns (2.46%)

Compound **14**



Fit with biexponential curve ($\chi^2 = 1.44$) $\tau_1 = 0.64$ ns (75.47%), $\tau_2 = 1.57$ ns (24.33%)

