

Figure S1. ^1H -NMR spectrum of compound **3** (CDCl_3 , 400 MHz).

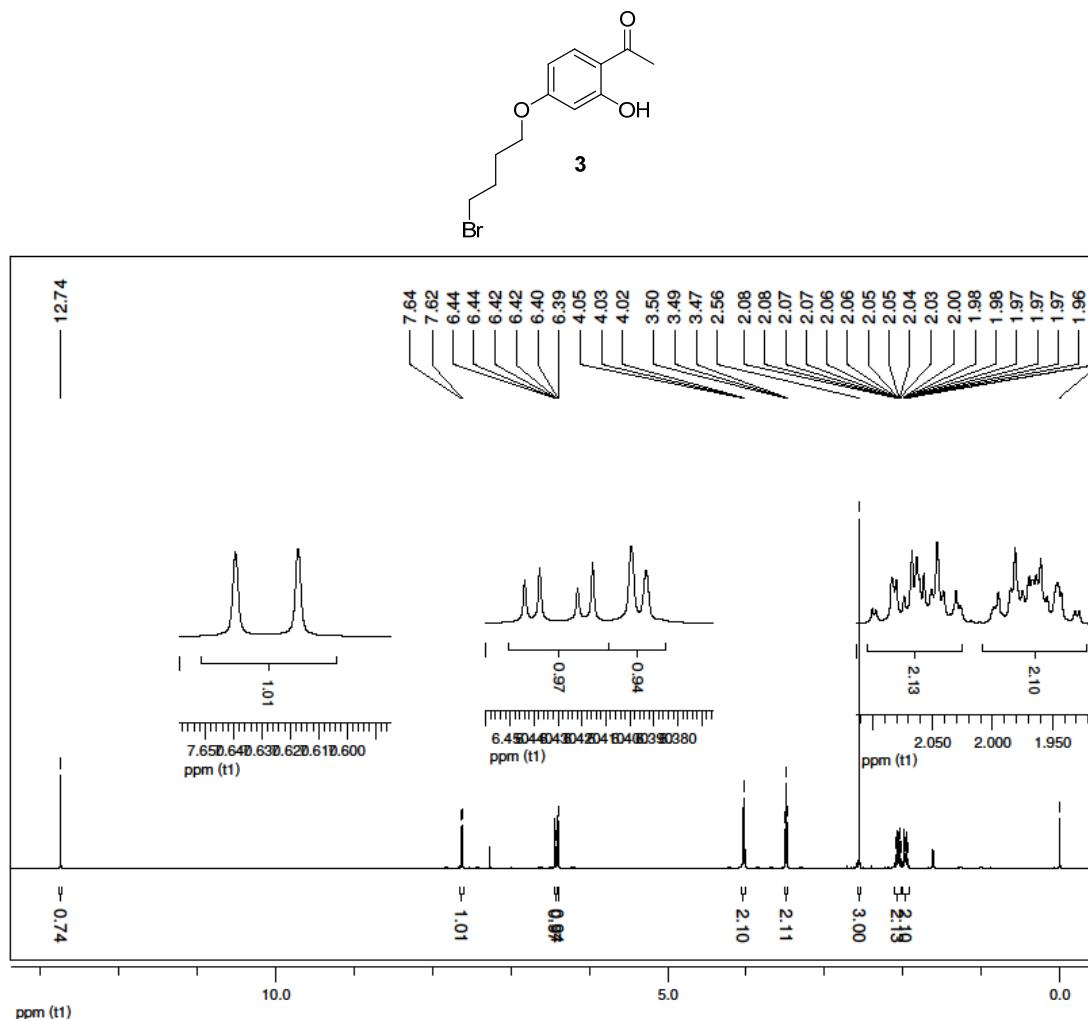


Figure S2. ^{13}C -NMR spectrum of compound **3** (CDCl_3 , 100 MHz).

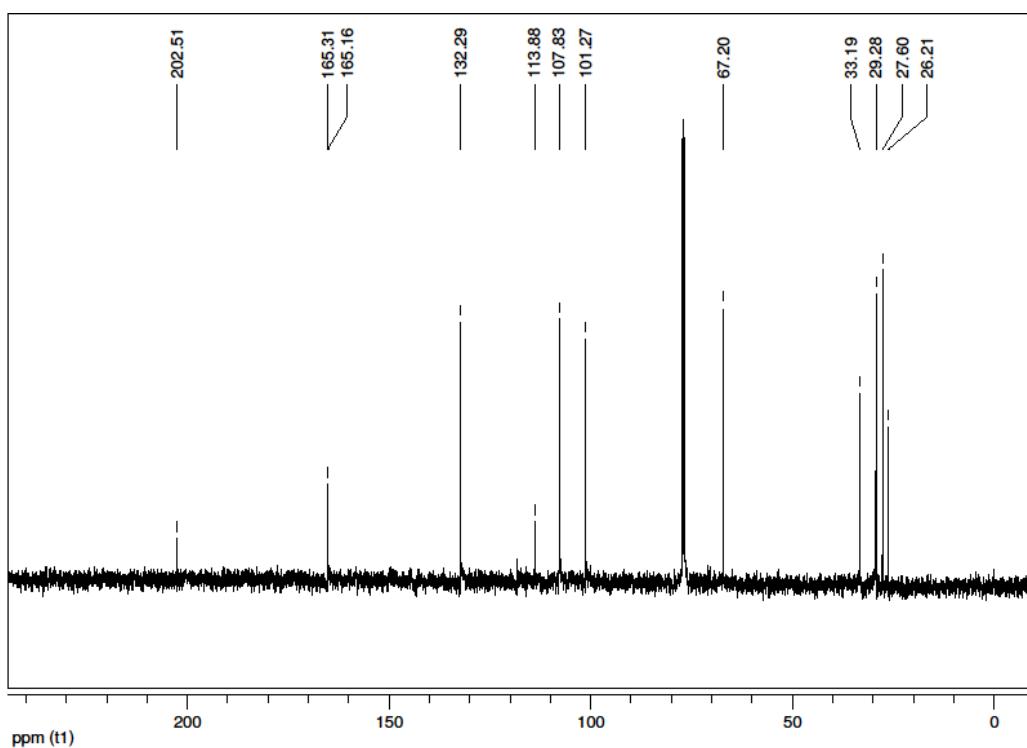


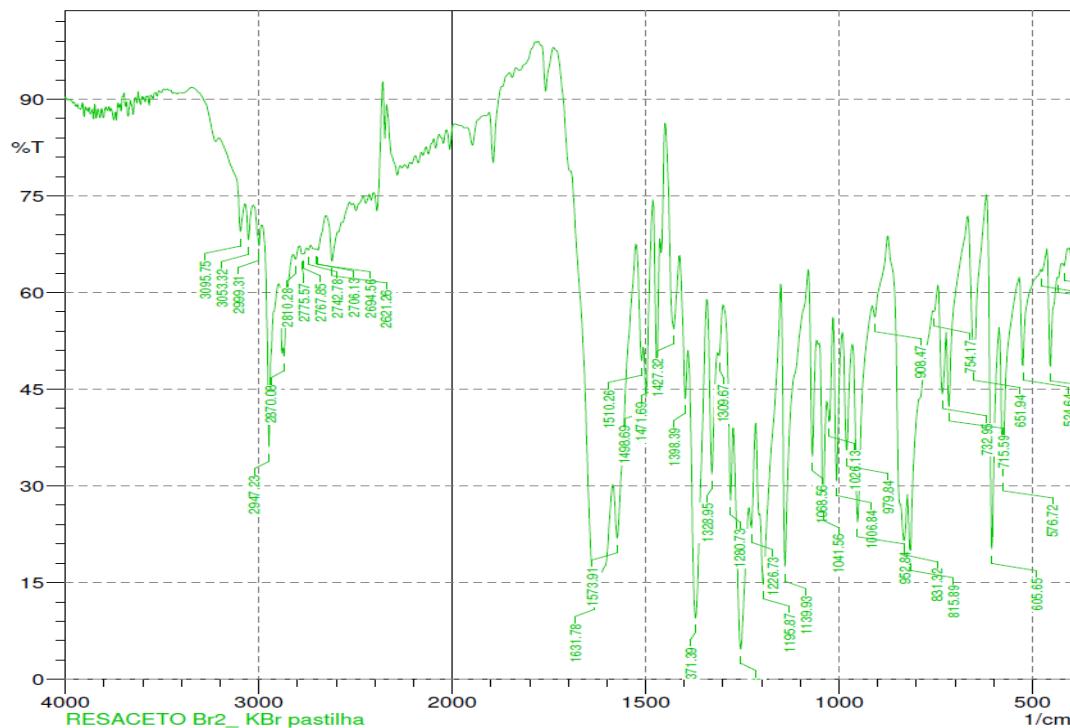
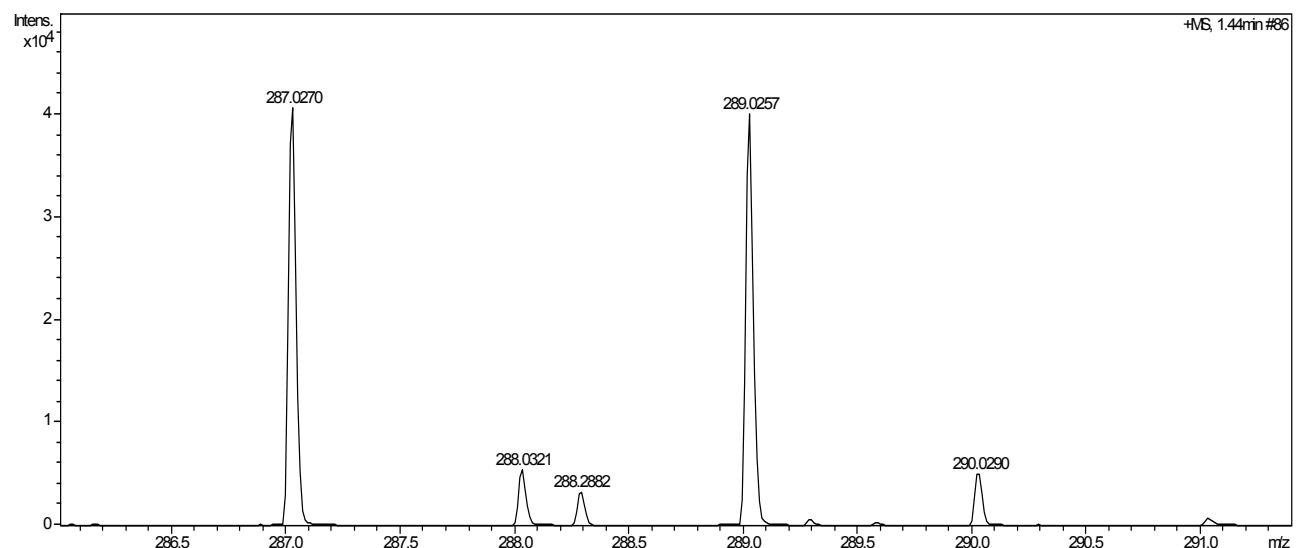
Figure S3. IR spectrum of compound 3.**Figure S4.** HRMS spectrum of compound 3.

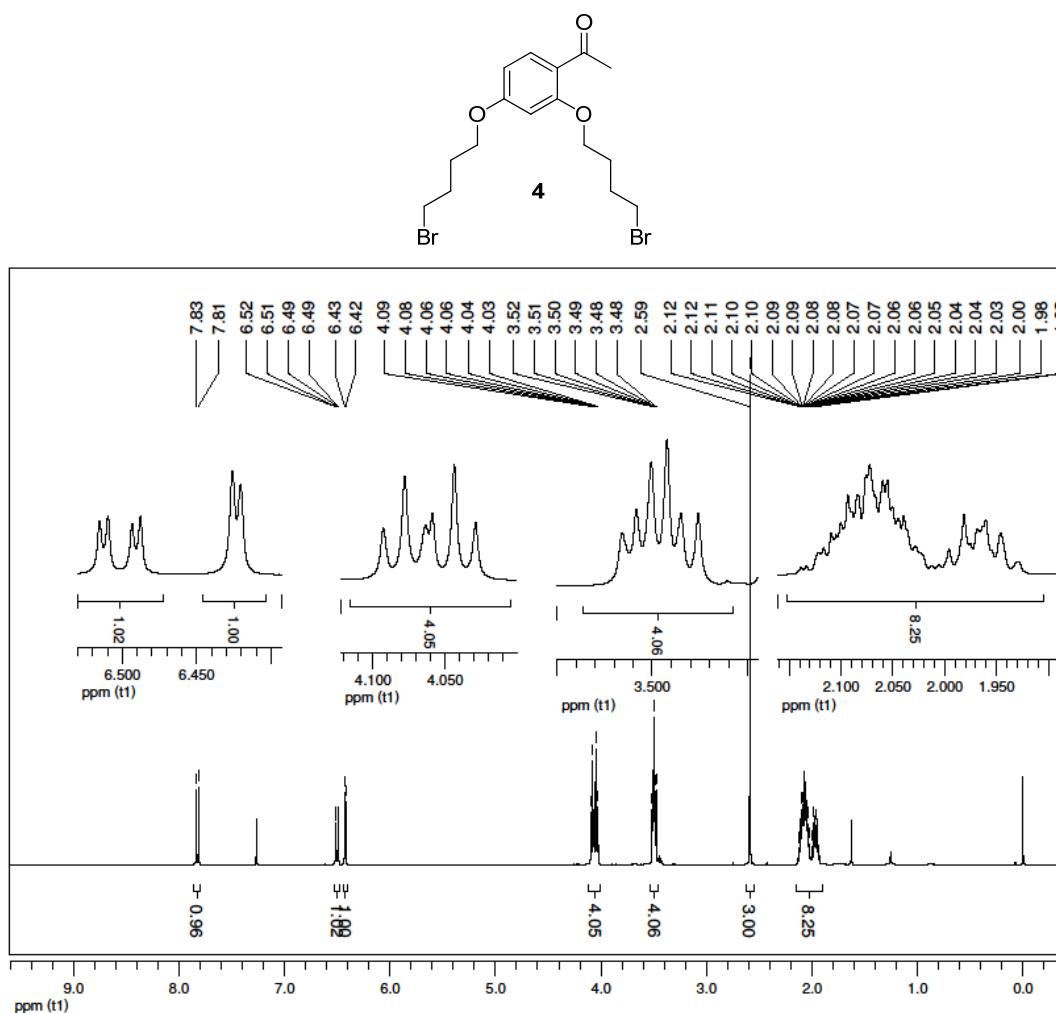
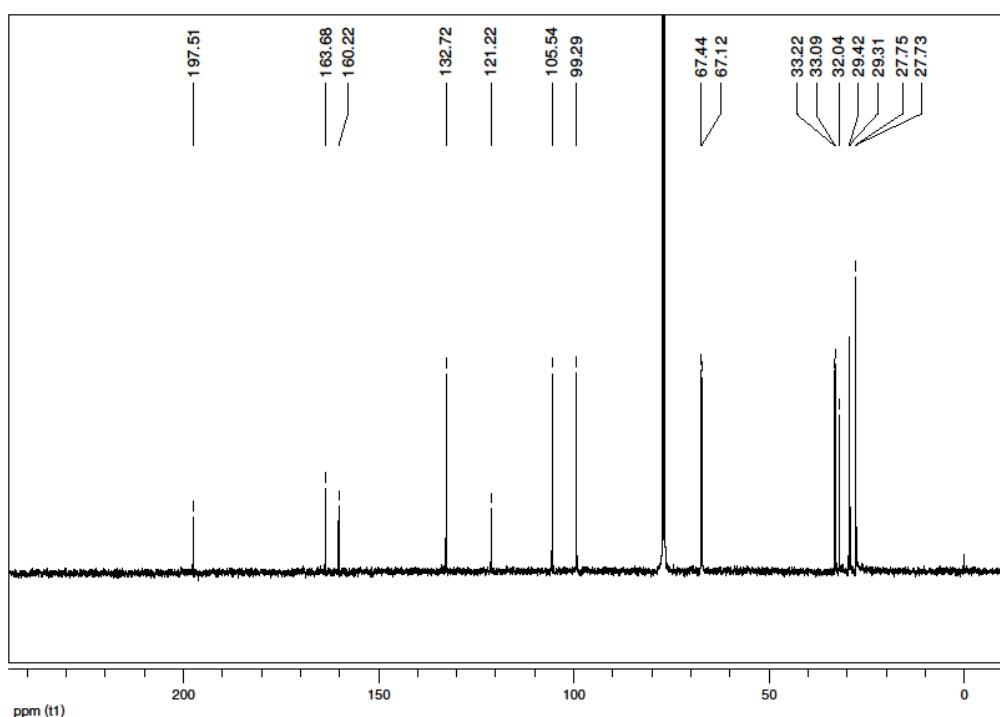
Figure S5. ^1H -NMR spectrum of compound 4 (CDCl_3 , 400 MHz).**Figure S6.** ^{13}C -NMR spectrum of compound 4 (CDCl_3 , 100 MHz).

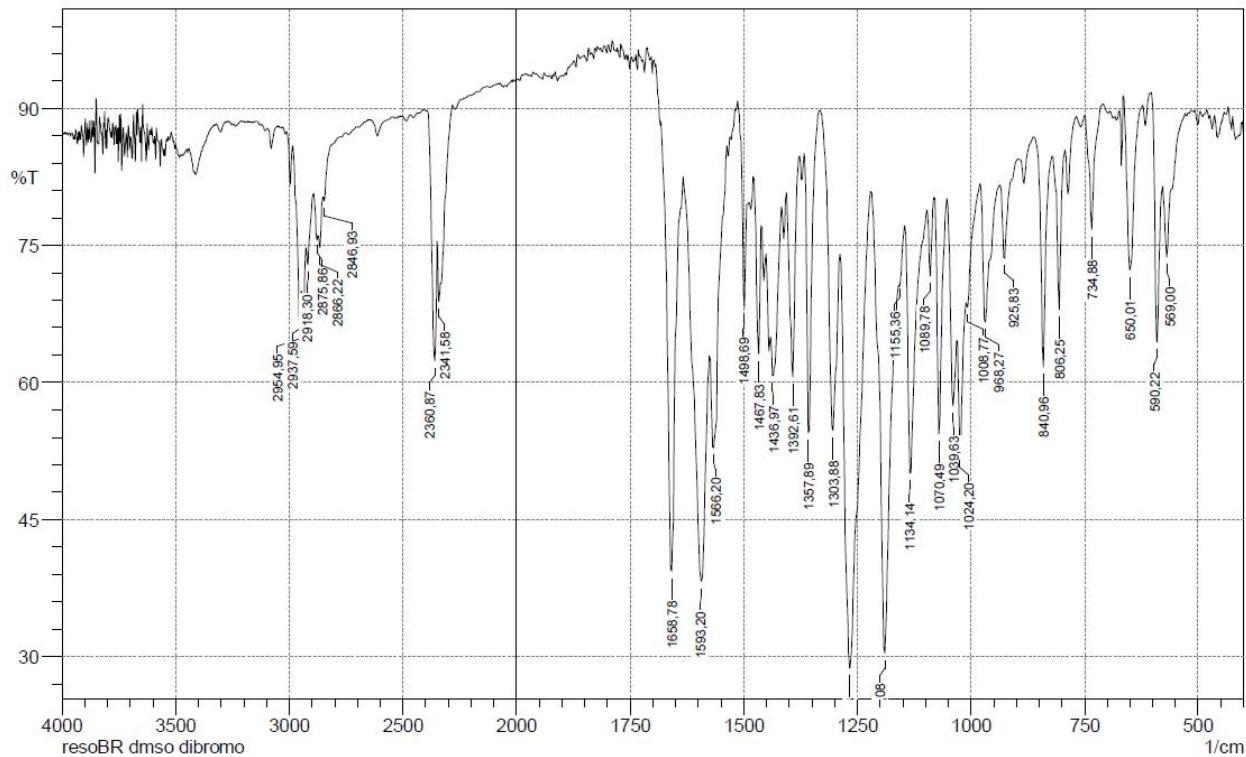
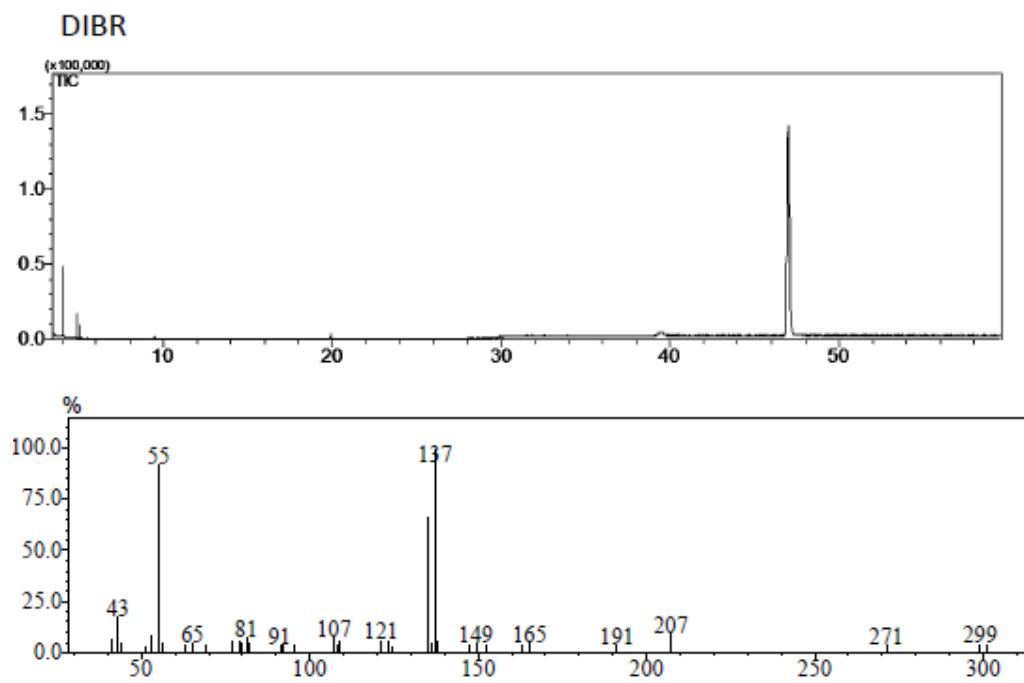
Figure S7. IR spectrum of compound 4.**Figure S8.** Mass spectrum of compound 4.

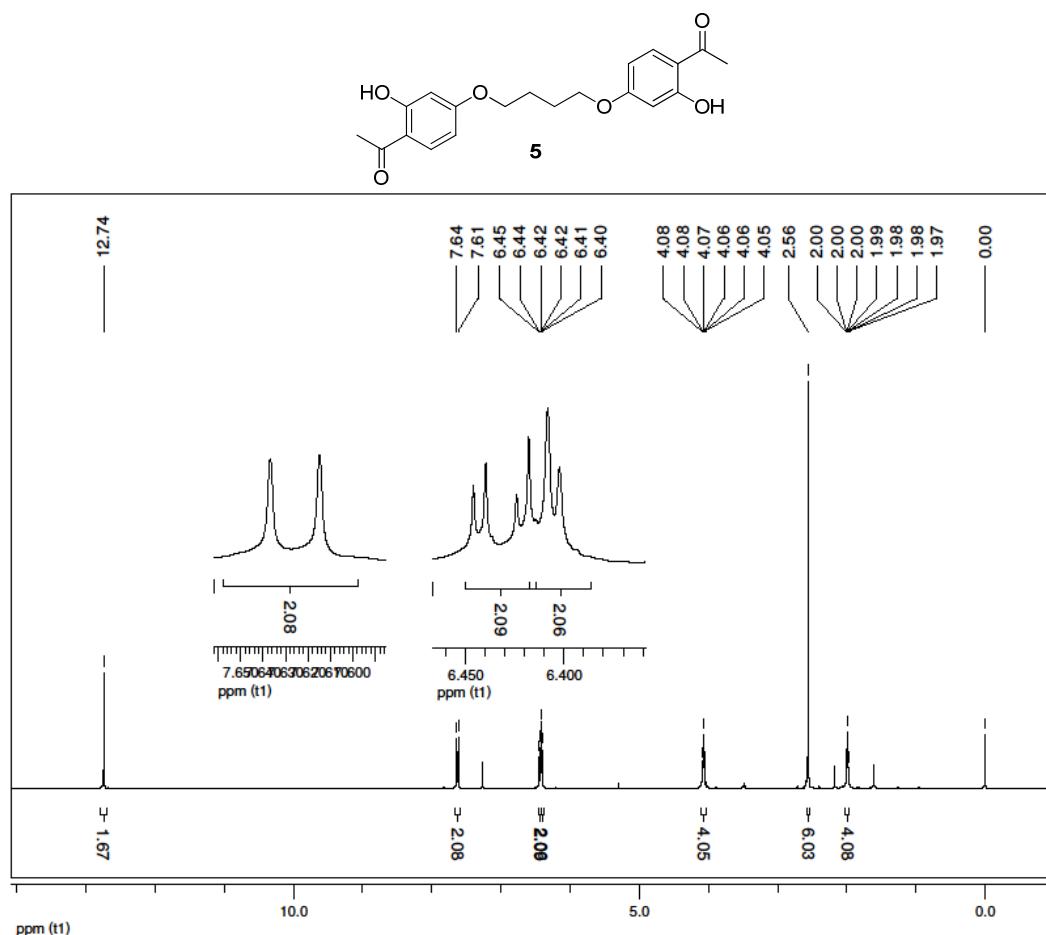
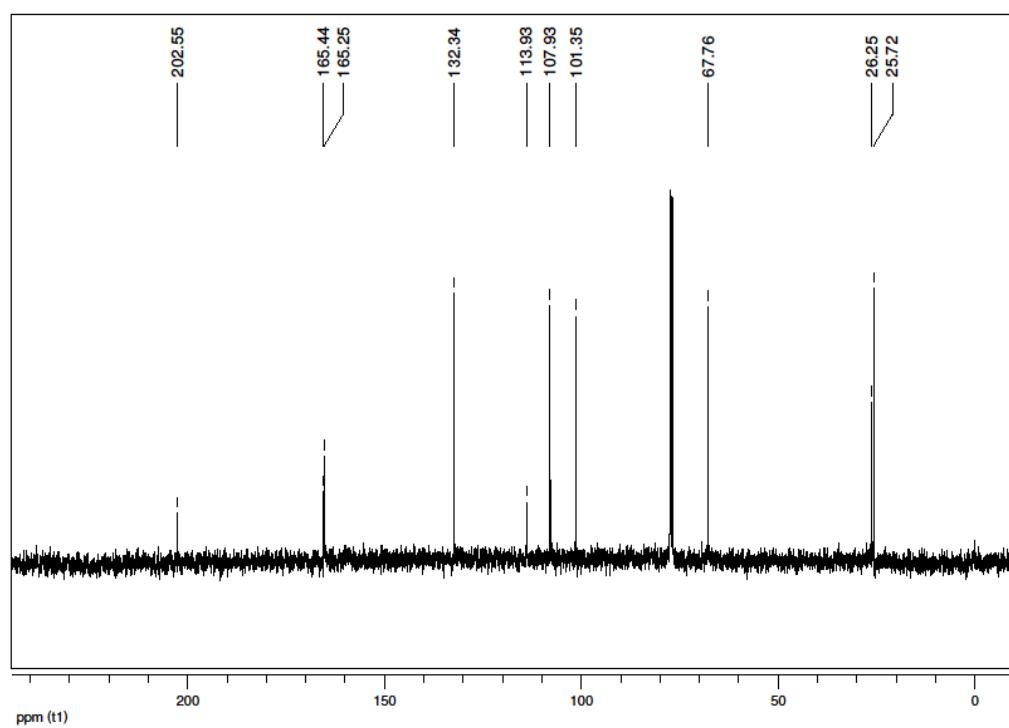
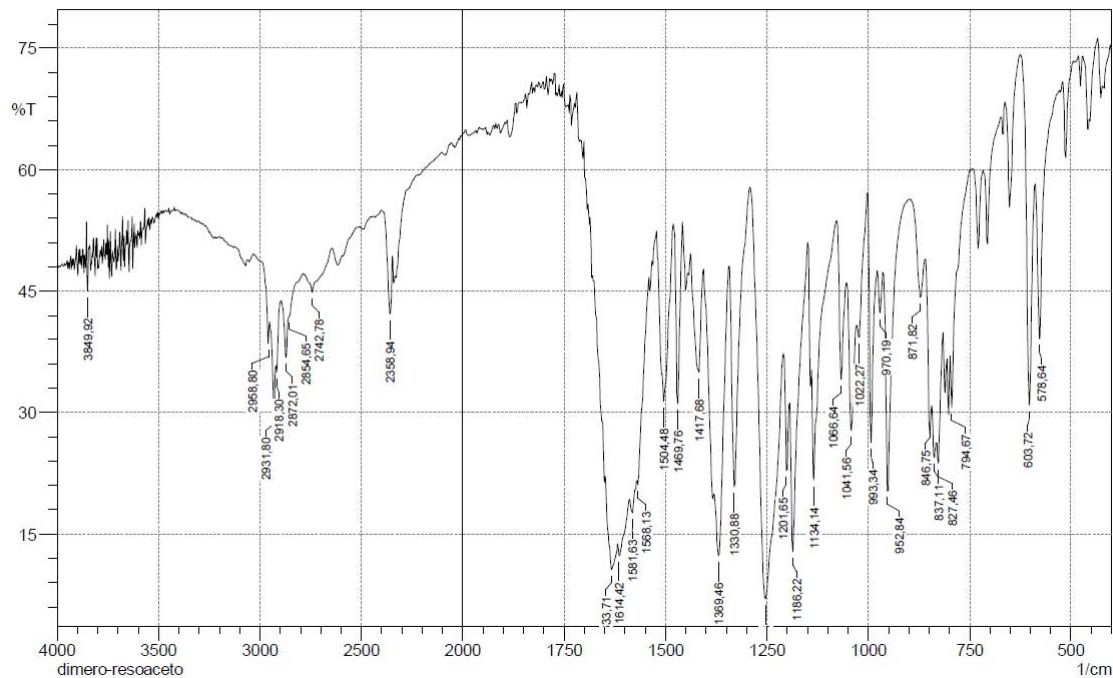
Figure S9. ^1H -NMR spectrum of compound **5** (CDCl_3 , 400 MHz).**Figure S10.** ^{13}C -NMR spectrum of compound **5** (CDCl_3 , 100 MHz).

Figure S11. IR spectrum of compound 5.

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**Figure S12.** Mass spectrum of compound 5.

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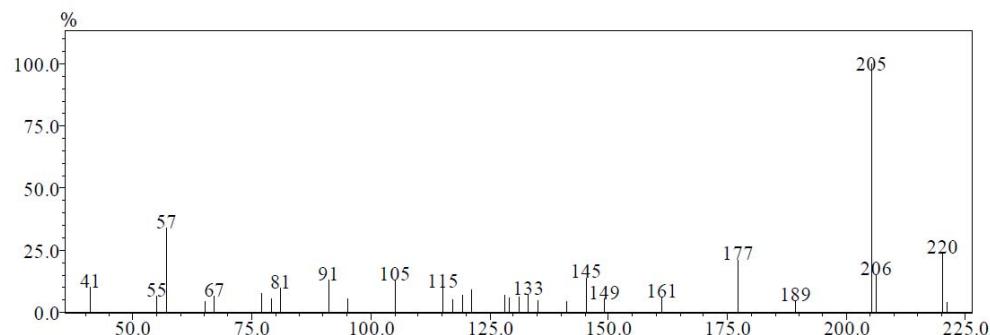
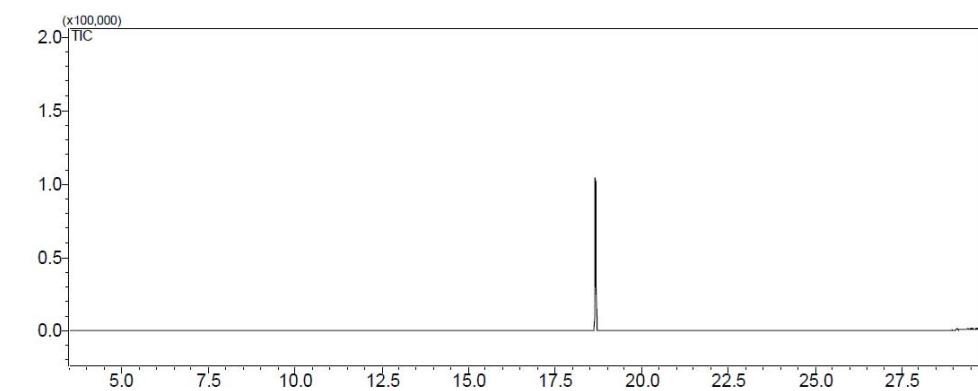


Figure S13. ^1H -NMR spectrum of compound 6 (CDCl_3 , 400 MHz).

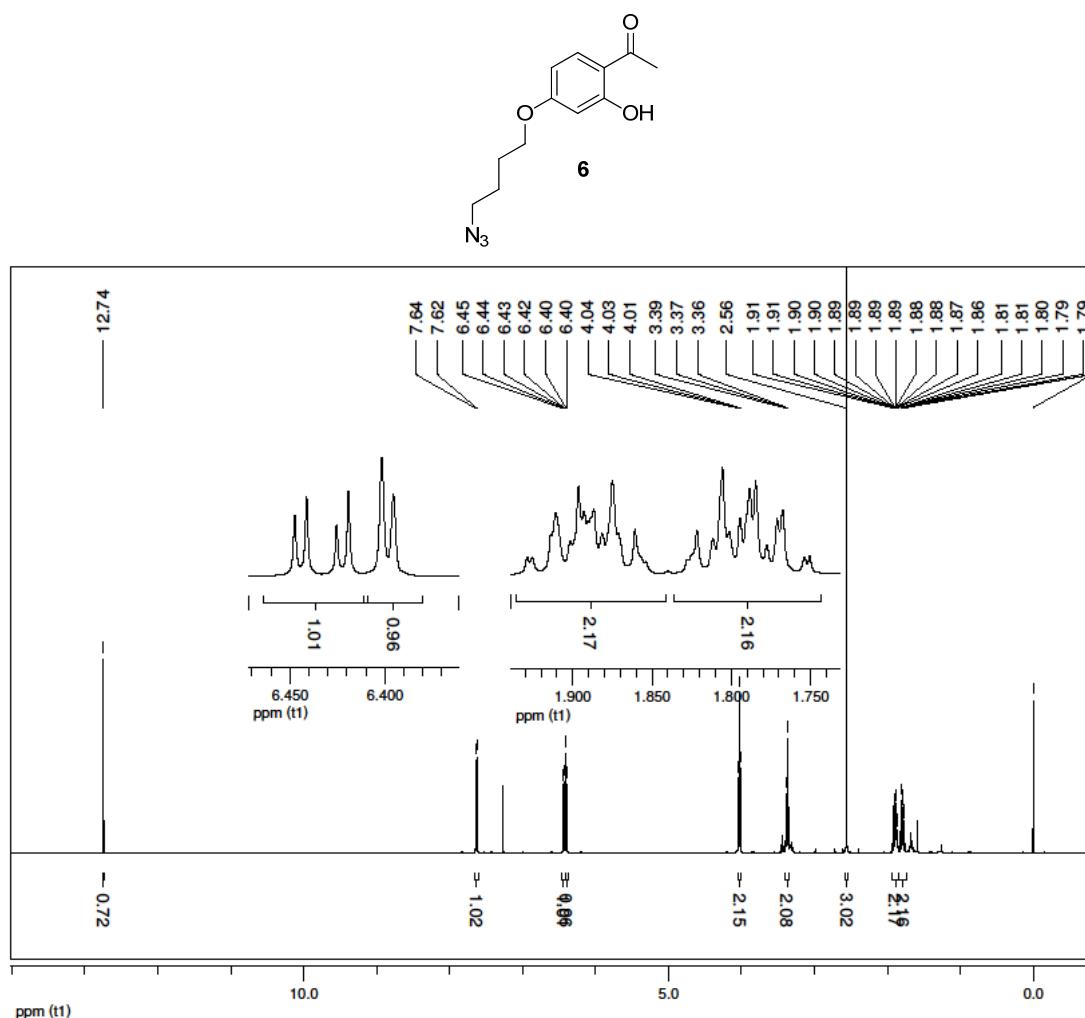


Figure S14. ^{13}C -NMR spectrum of compound **6** (CDCl_3 , 100 MHz).

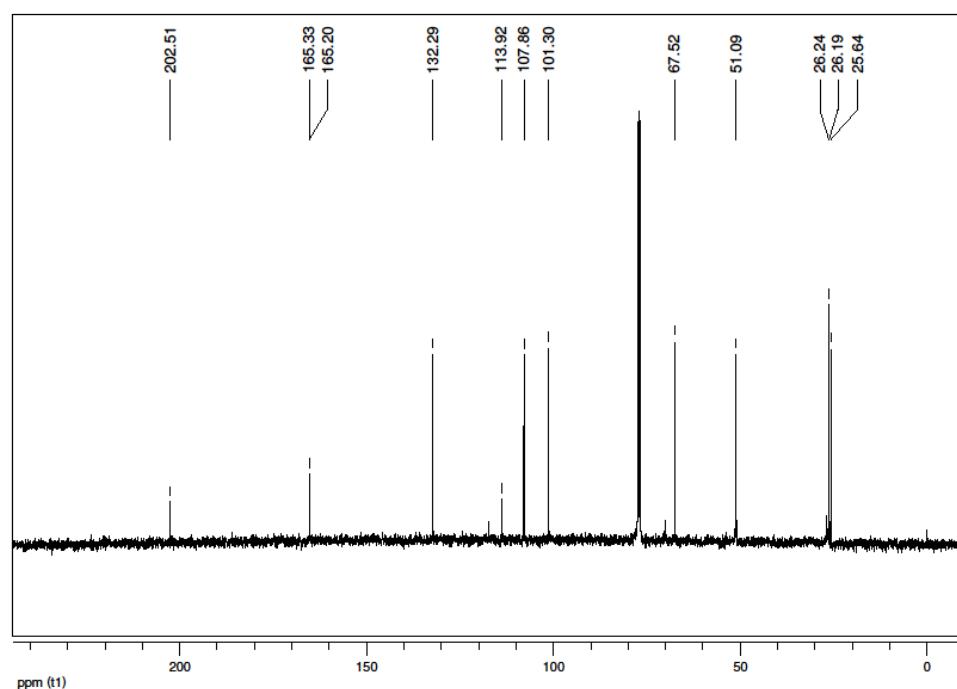


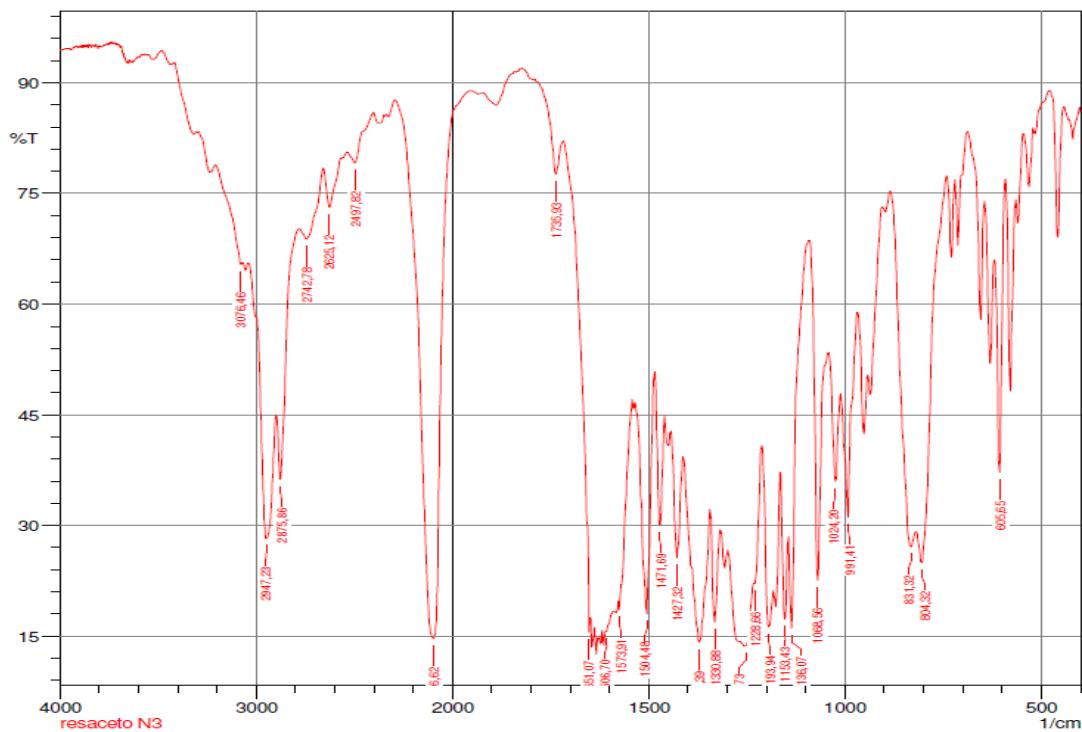
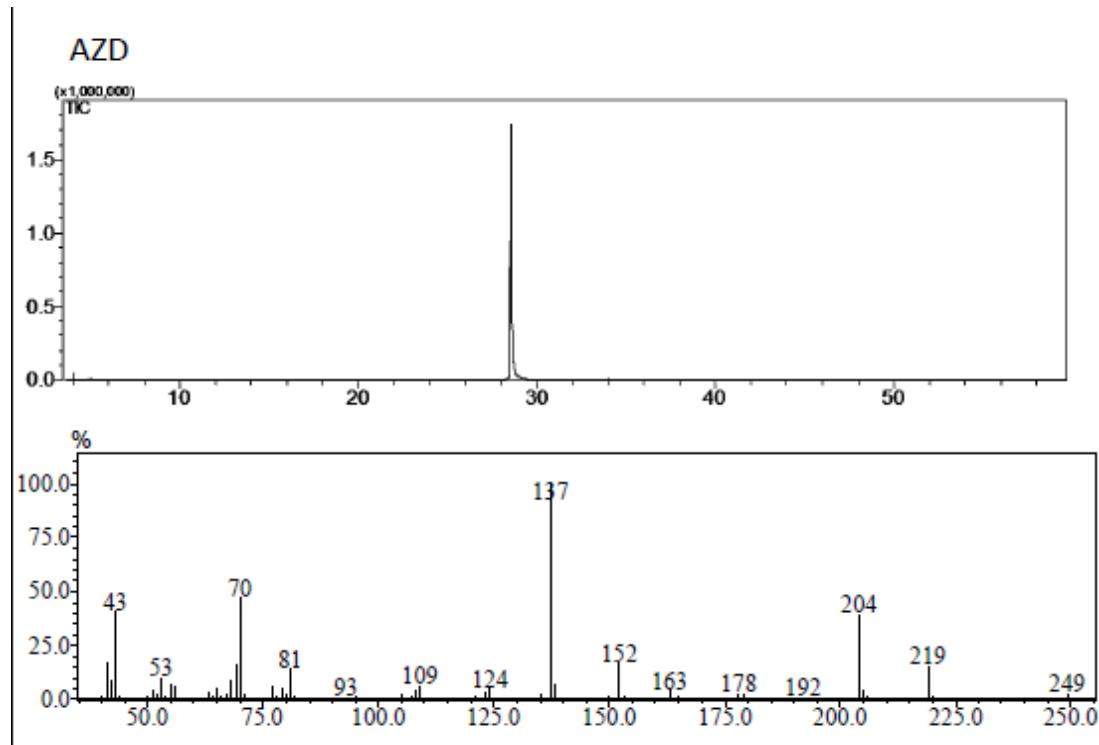
Figure S15. IR spectrum of compound 6.**Figure S16.** Mass spectra of compound 6

Figure S17. ^1H -NMR spectrum of compound **7a** (CDCl_3 , 400 MHz).

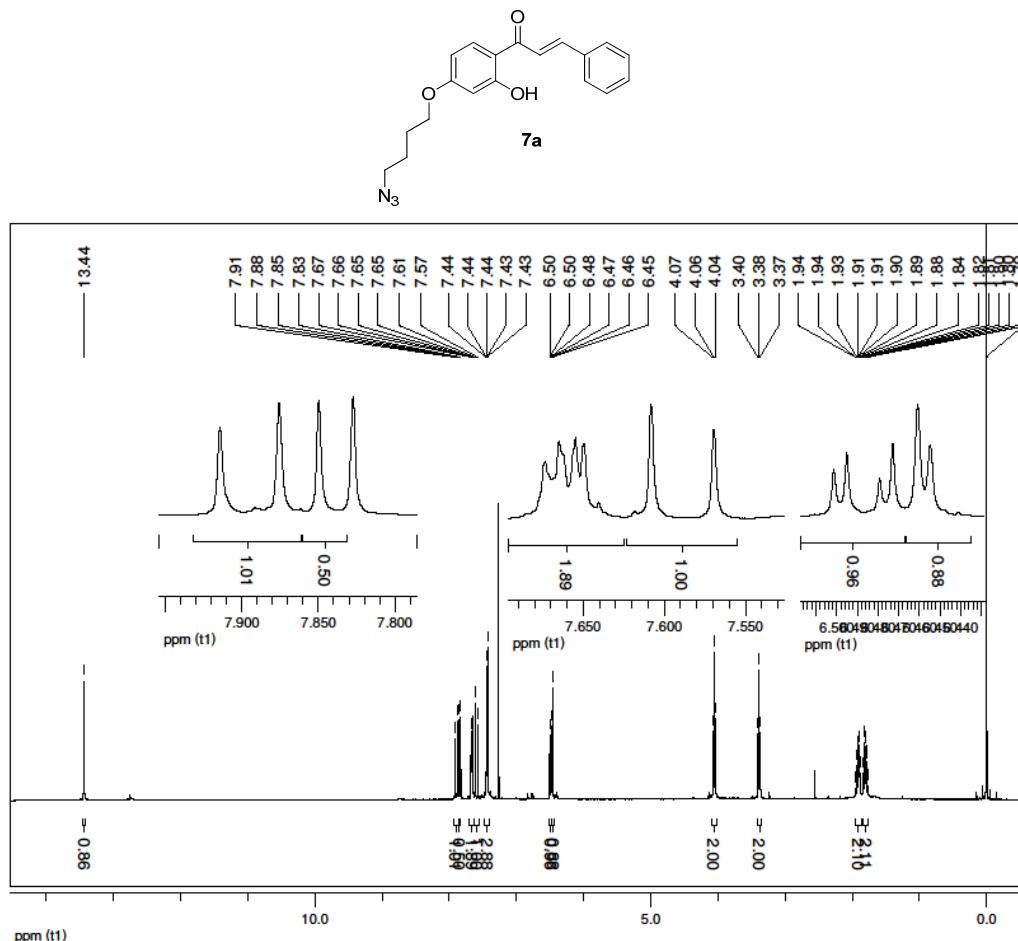


Figure S18. ^{13}C -NMR spectrum of compound **7a** (CDCl_3 , 100 MHz).

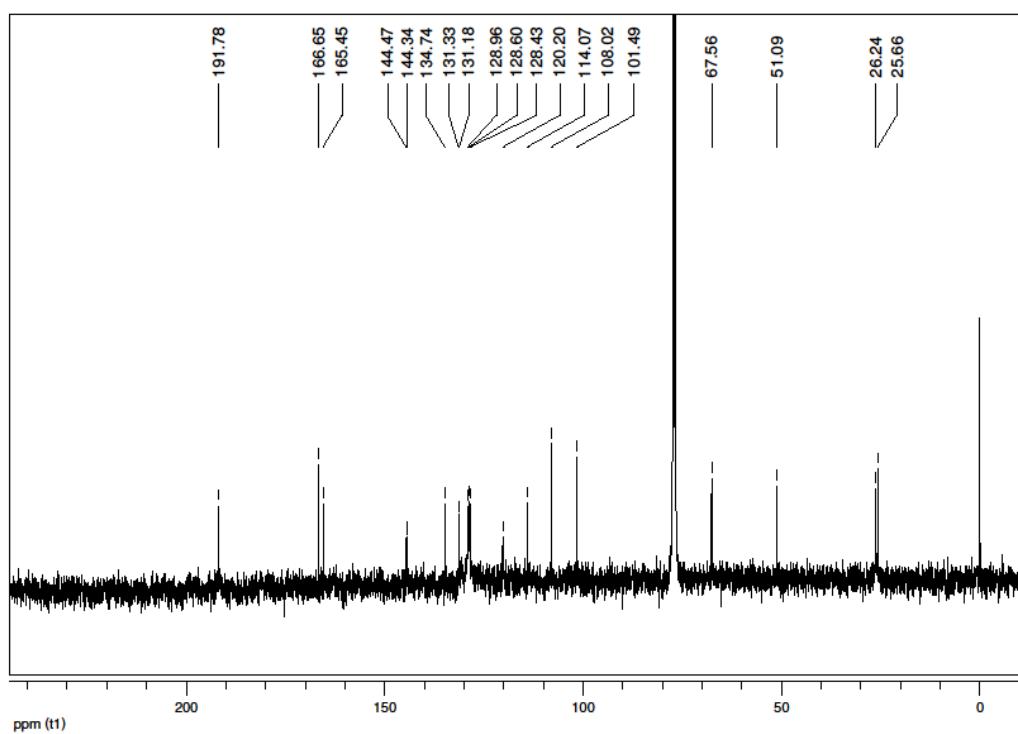


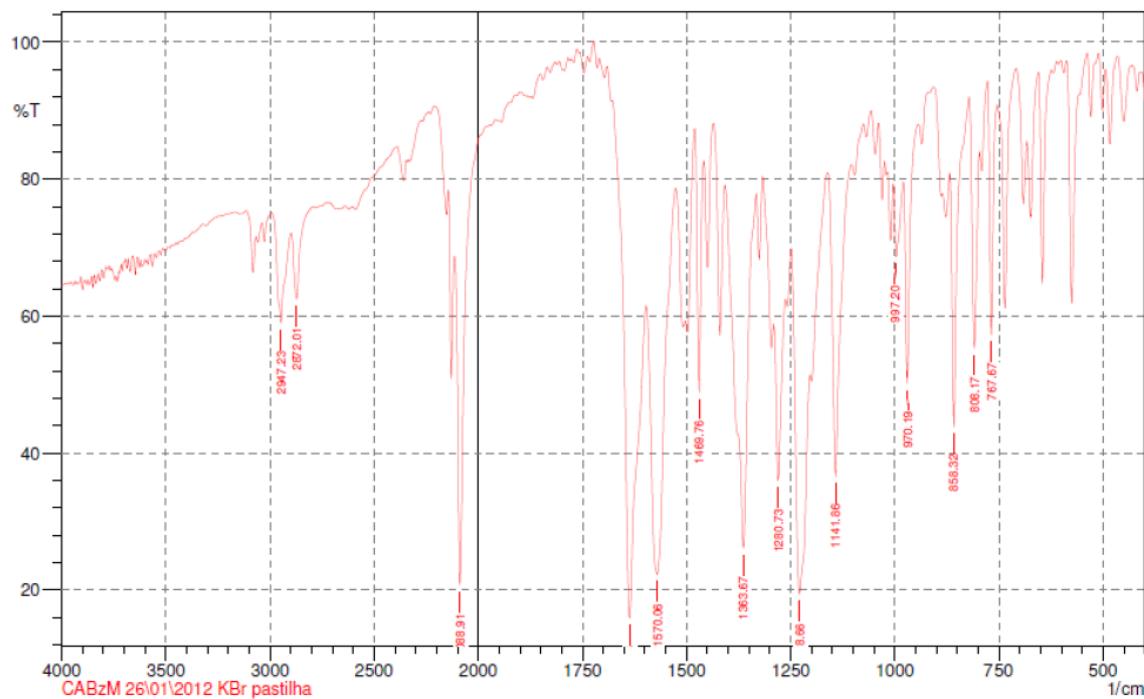
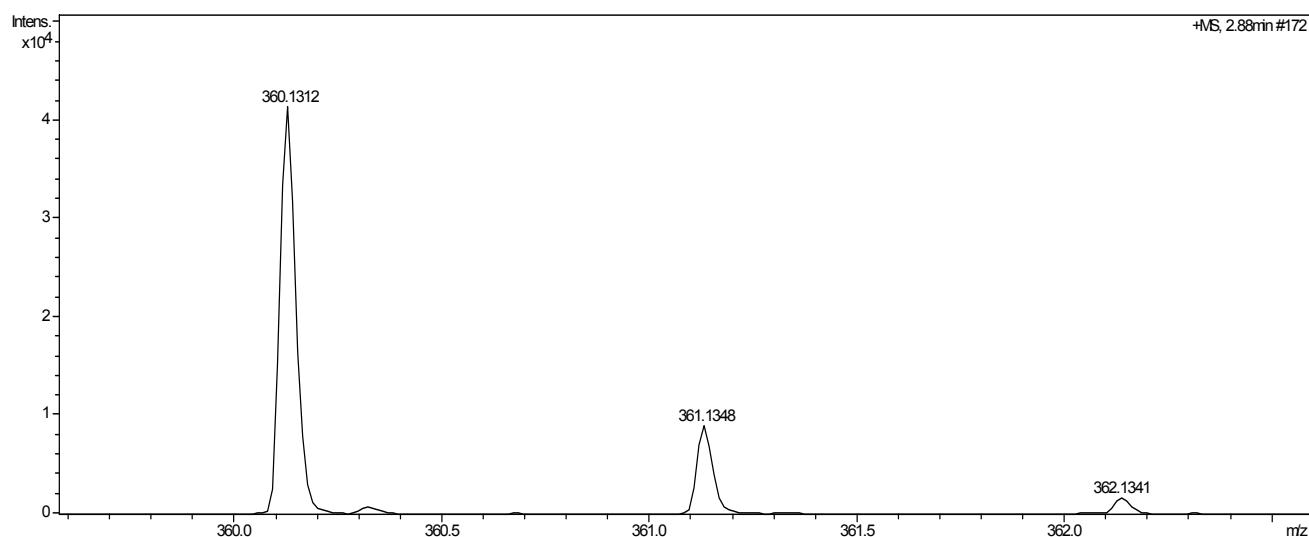
Figure S19. IR spectrum of compound 7a.**Figure S20.** HRMS spectrum of compound 7a.

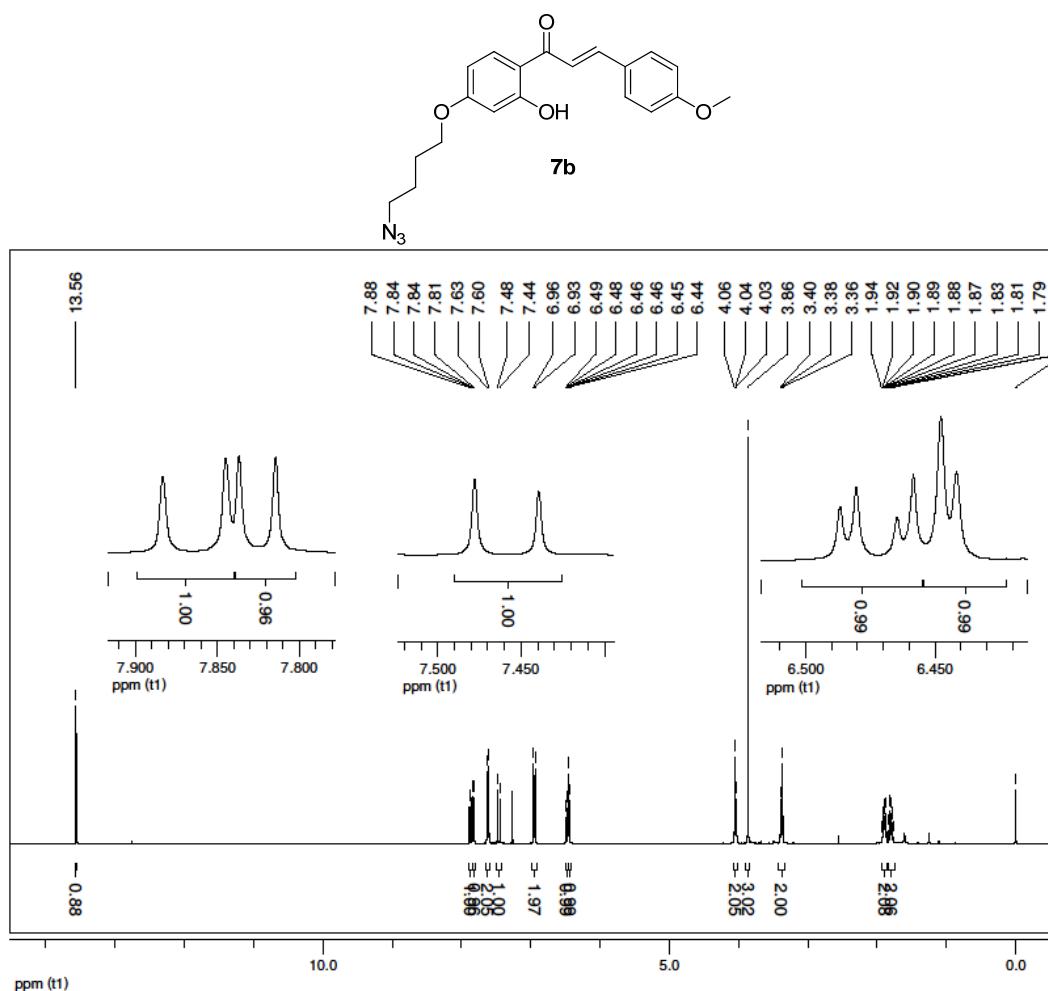
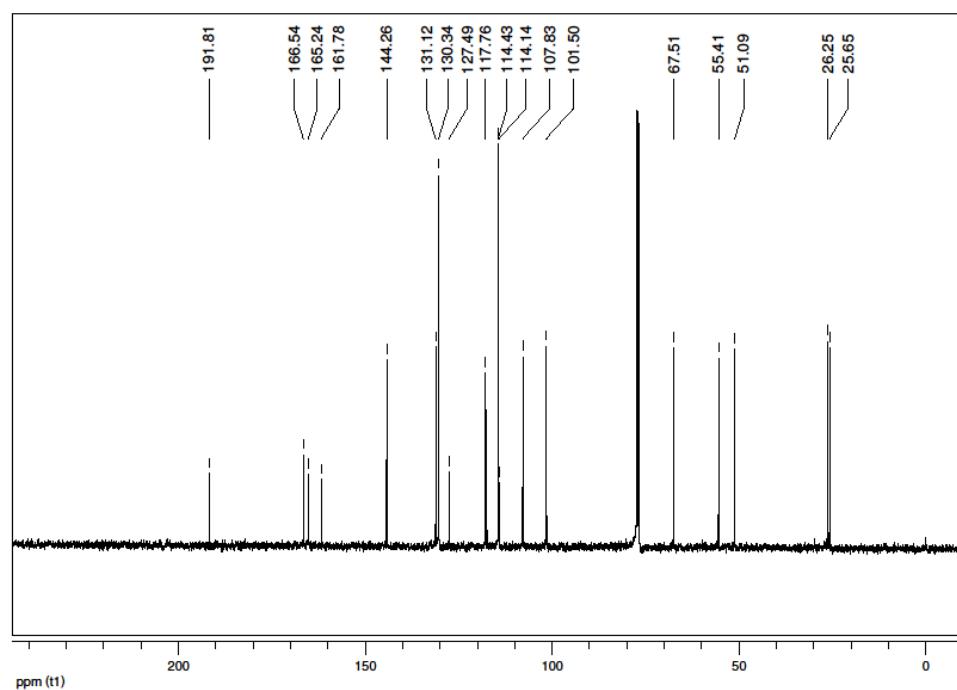
Figure S21. ^1H -NMR spectrum of compound **7b** (CDCl_3 , 400 MHz).**Figure S22.** ^{13}C -NMR spectrum of compound **7b** (CDCl_3 , 100 MHz).

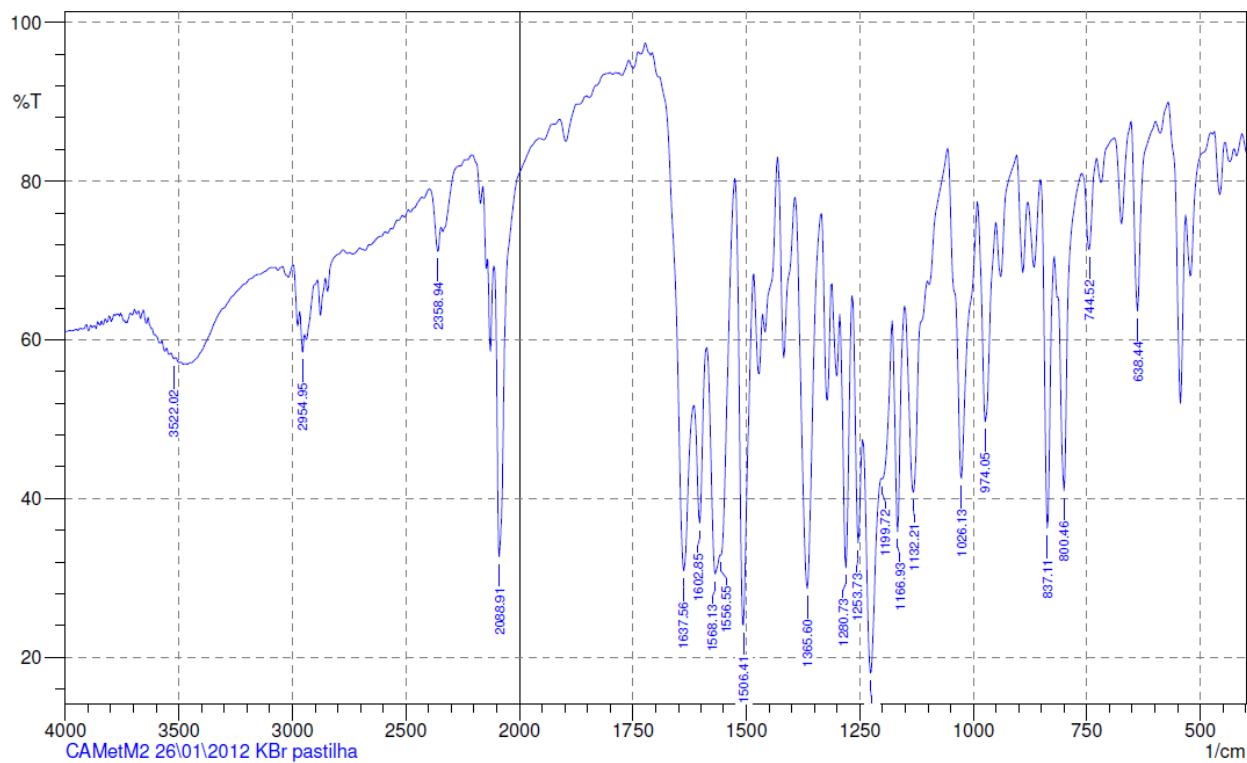
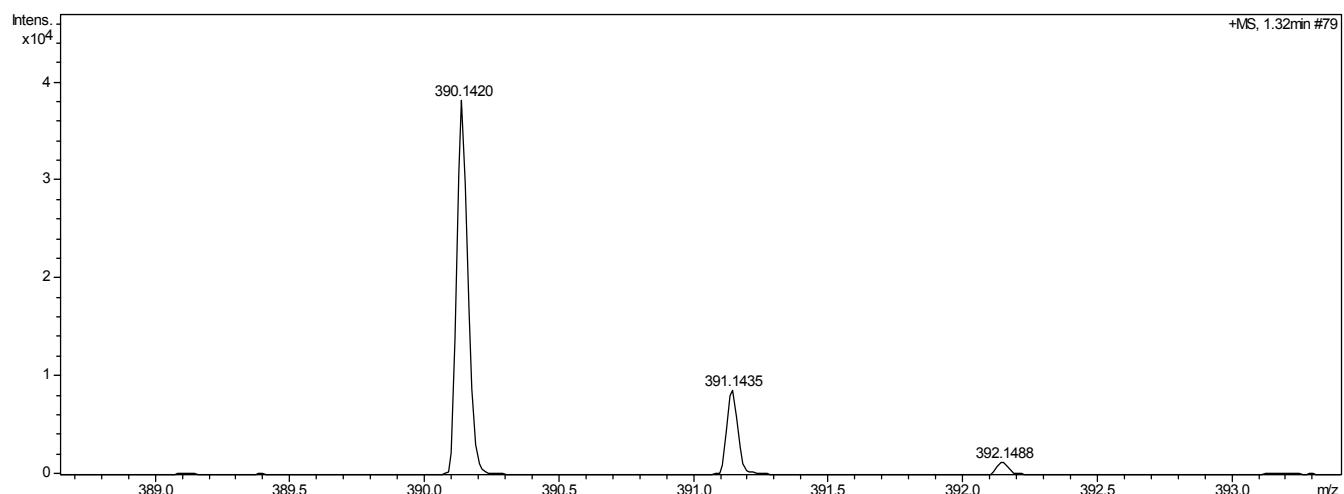
Figure S23. IR spectrum of compound **7b**.**Figure S24.** HRMS spectrum of **7b**.

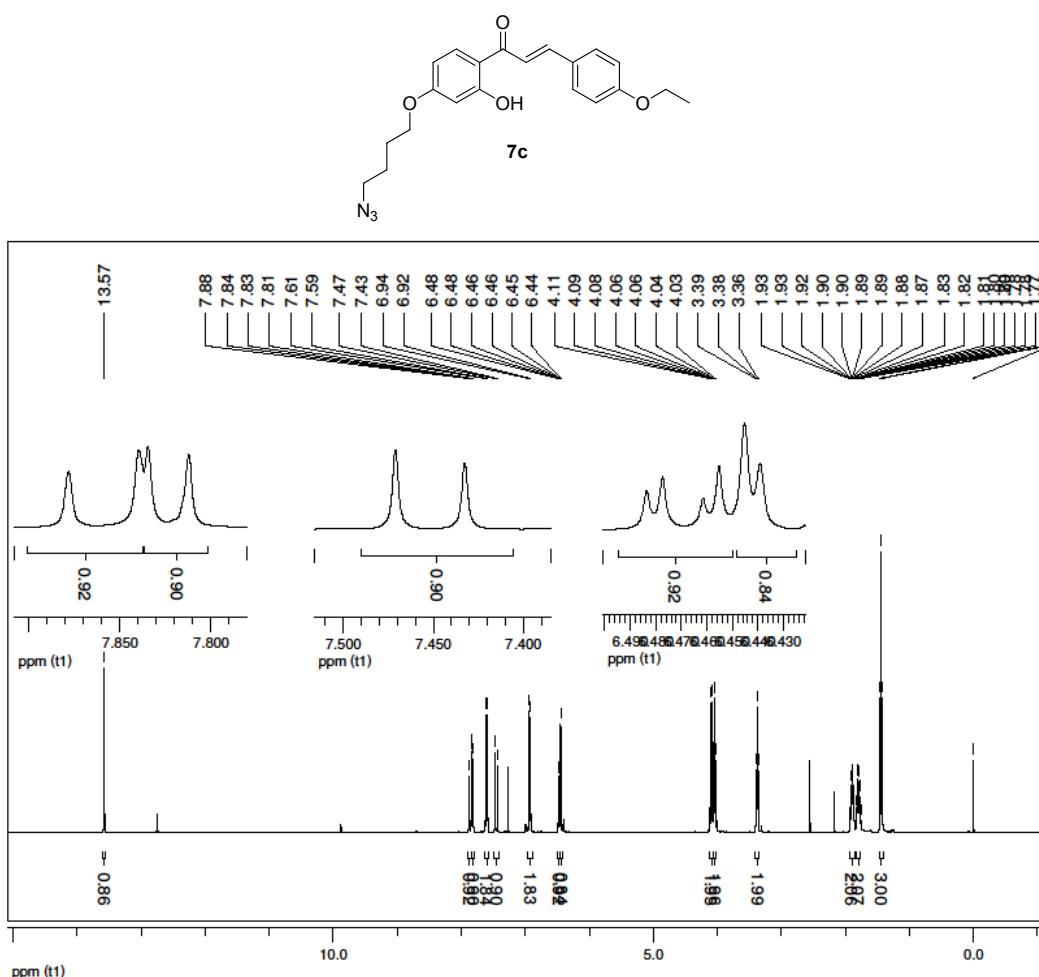
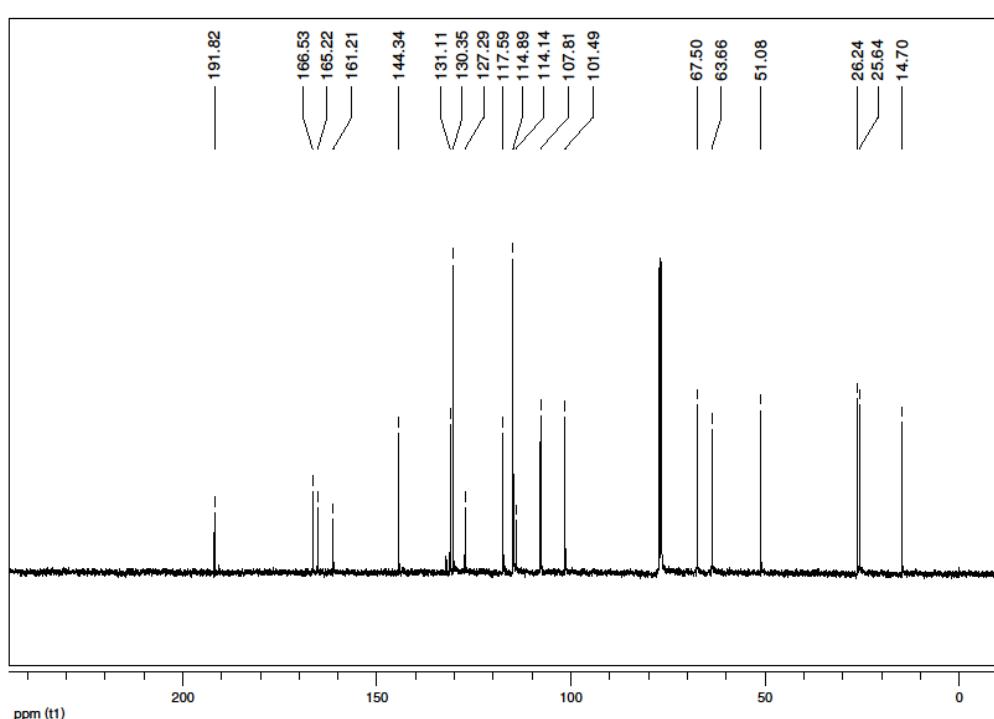
Figure S25. ^1H -NMR spectrum **7c** (CDCl_3 , 400 MHz).**Figure S26.** ^{13}C -NMR spectrum of compound **7c** (CDCl_3 , 100 MHz).

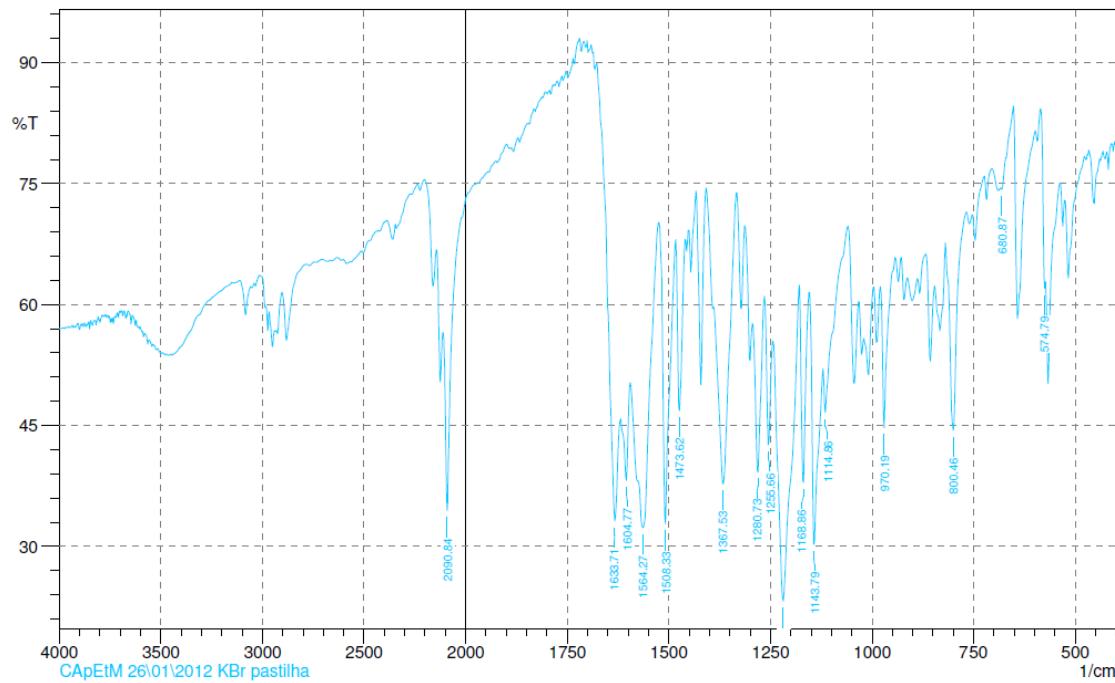
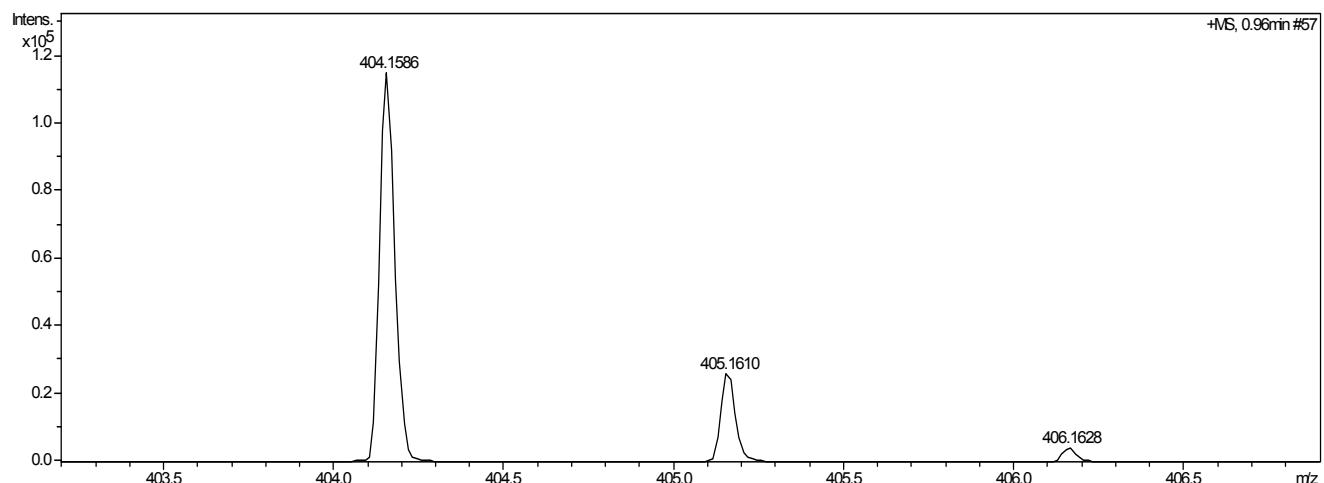
Figure S27. IR spectrum of compound 7c.**Figure S28.** HRMS spectrum of compound 7c.

Figure S29. ^1H -NMR spectrum of compound **7d** (DMSO-*d*6, 400 MHz).

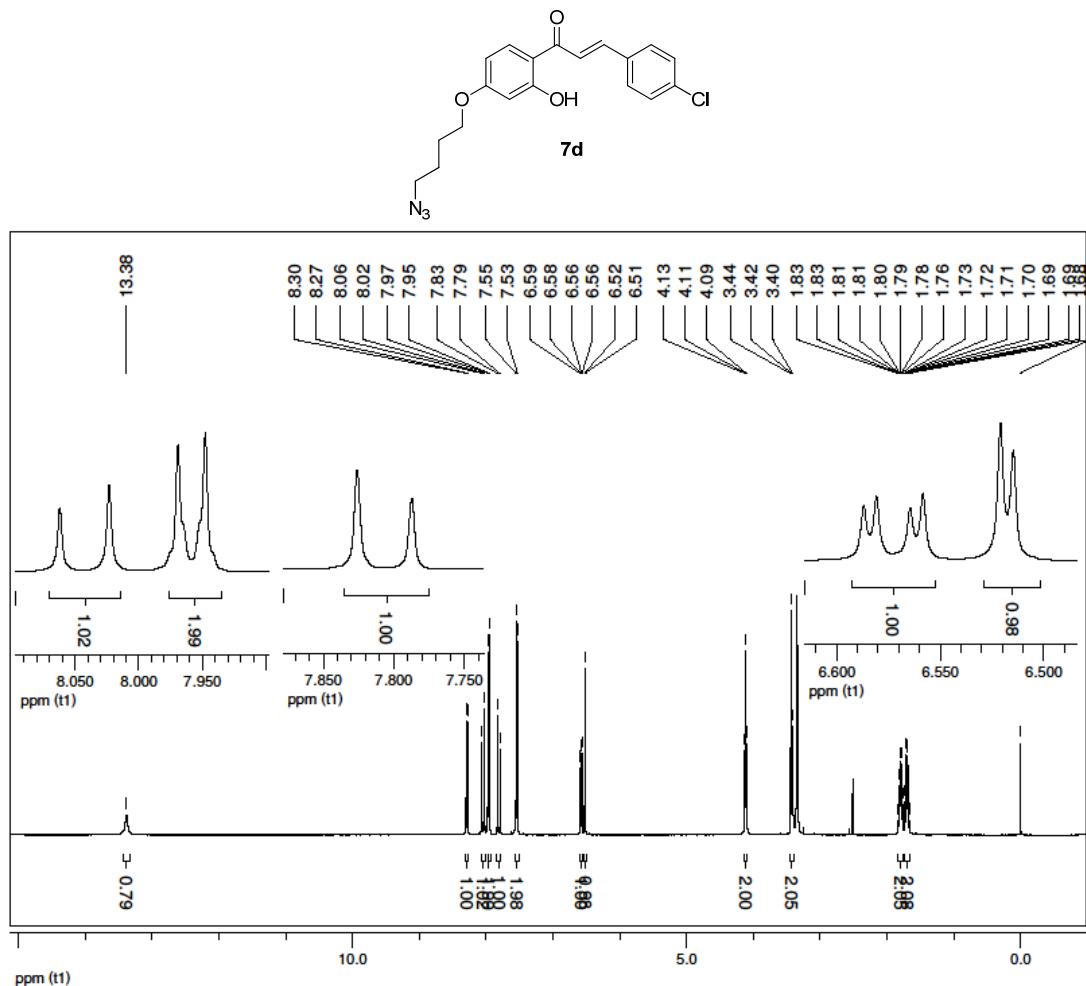


Figure S30. ^{13}C -NMR spectrum of compound **7d** ($\text{DMSO}-d_6$, 100 MHz).

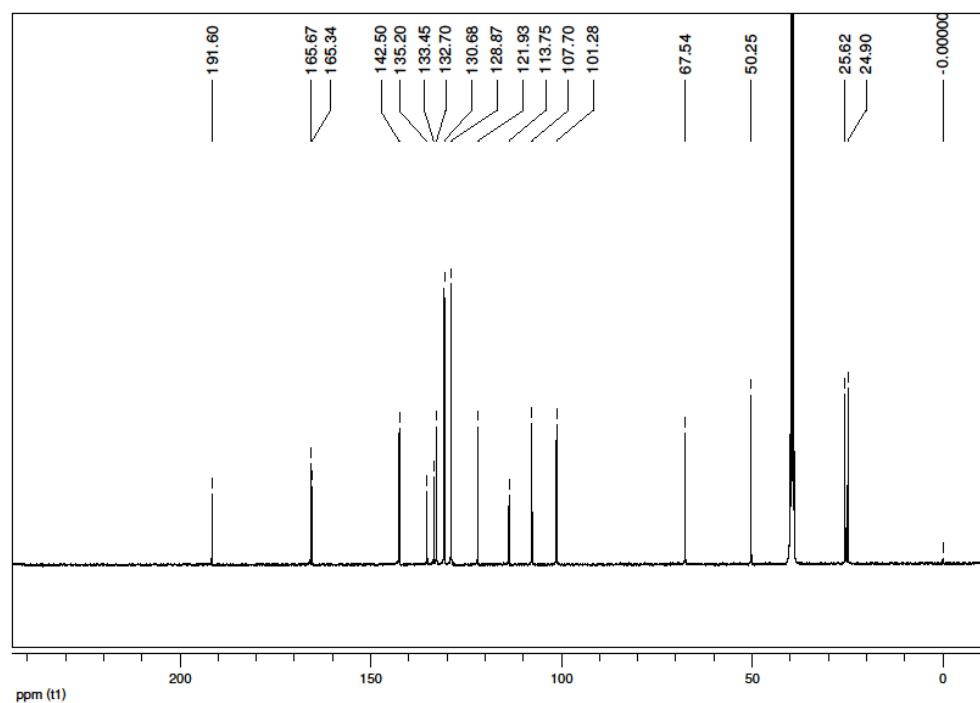


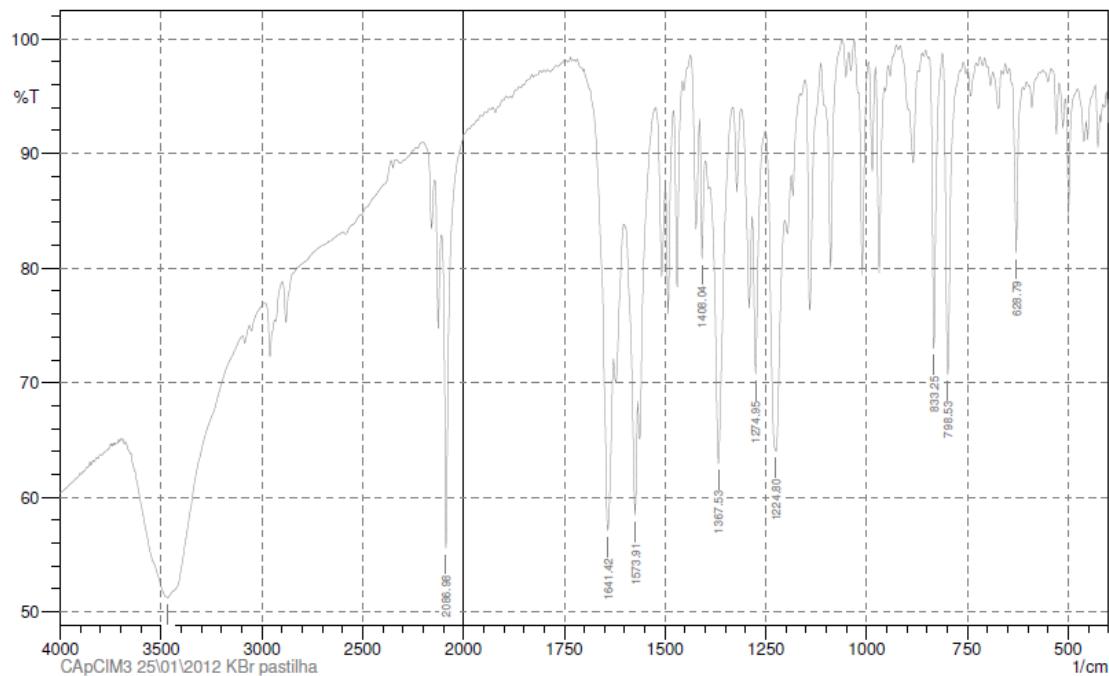
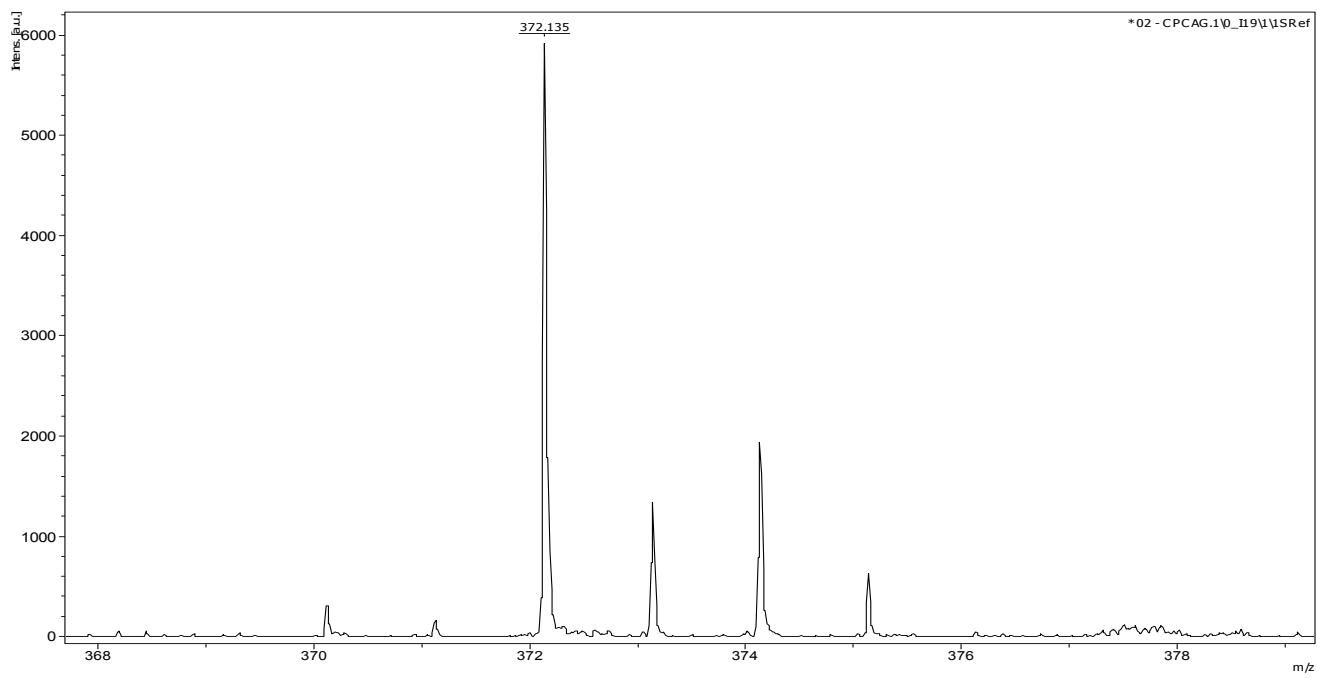
Figure S31. IR spectrum of compound 7d.**Figure S32.** HRMS spectrum of compound 7d.

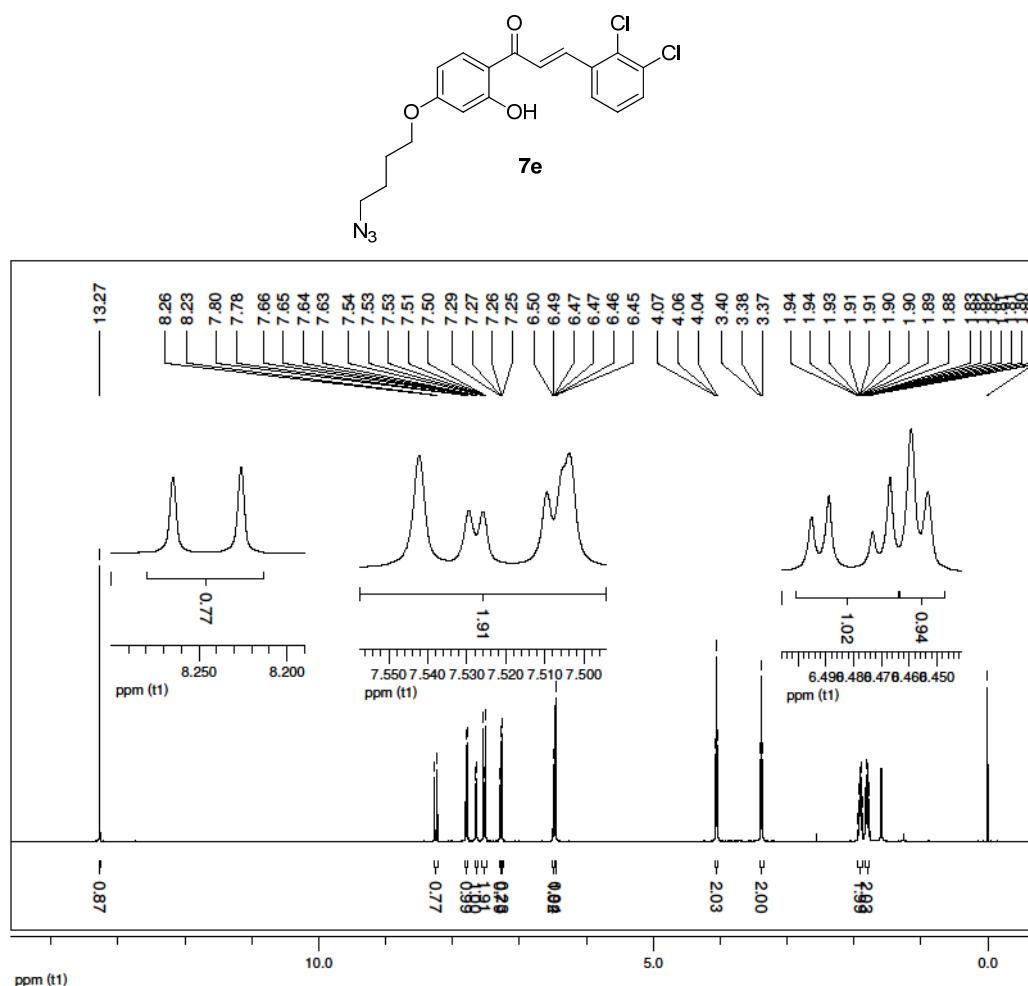
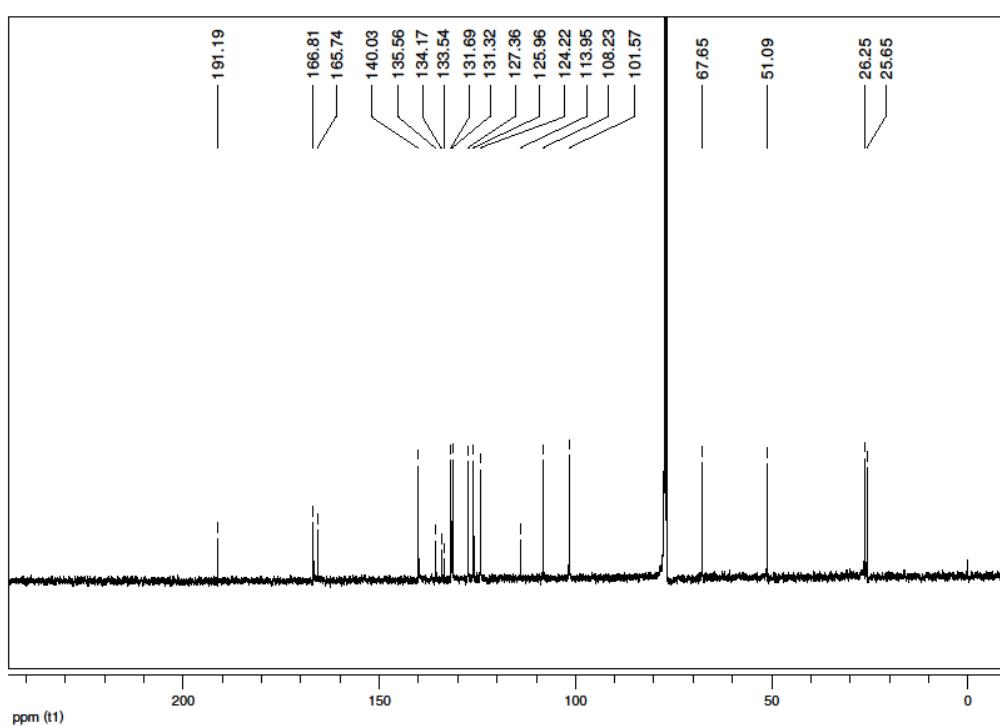
Figure S33. ^1H -NMR spectrum of compound **7e** (CDCl_3 , 400 MHz).**Figure S34.** ^{13}C -NMR spectrum of compound **7e** (CDCl_3 , 100 MHz).

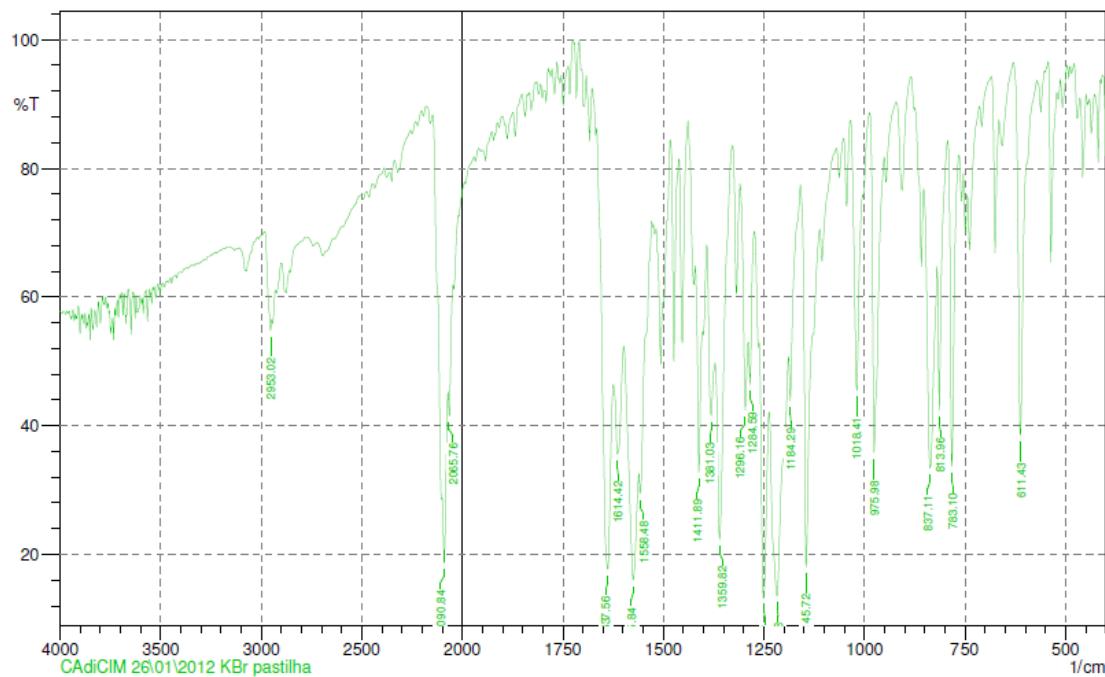
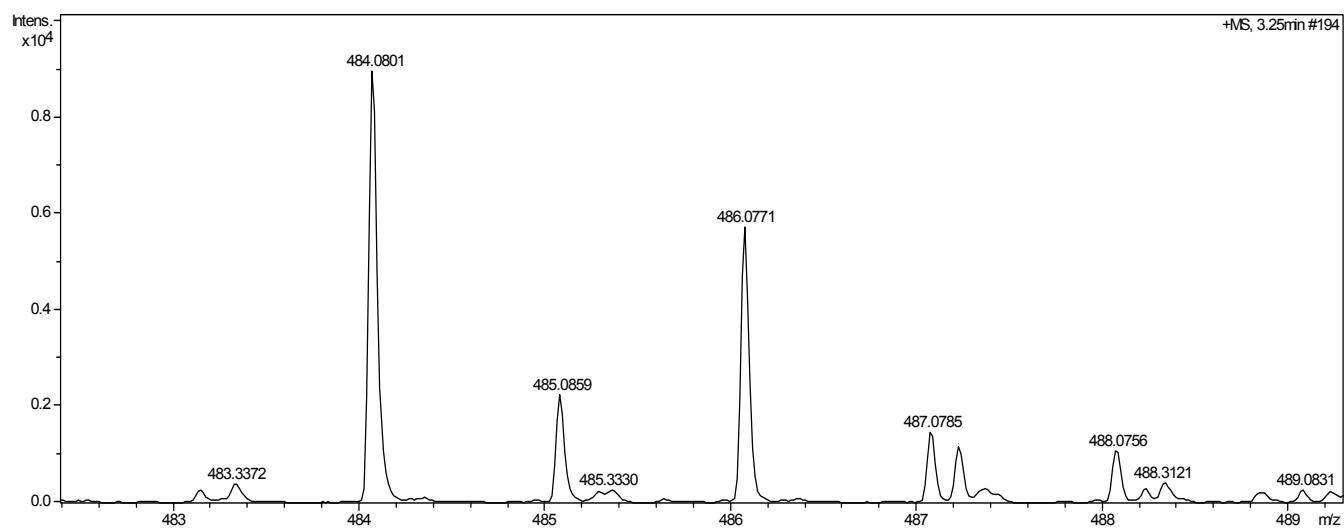
Figure S35. IR spectrum of compound 7e.**Figure S36.** HRMS spectrum of compound 7e.

Figure S37. ^1H -NMR spectrum of compound **8a** (DMSO- d_6 , 400 MHz).

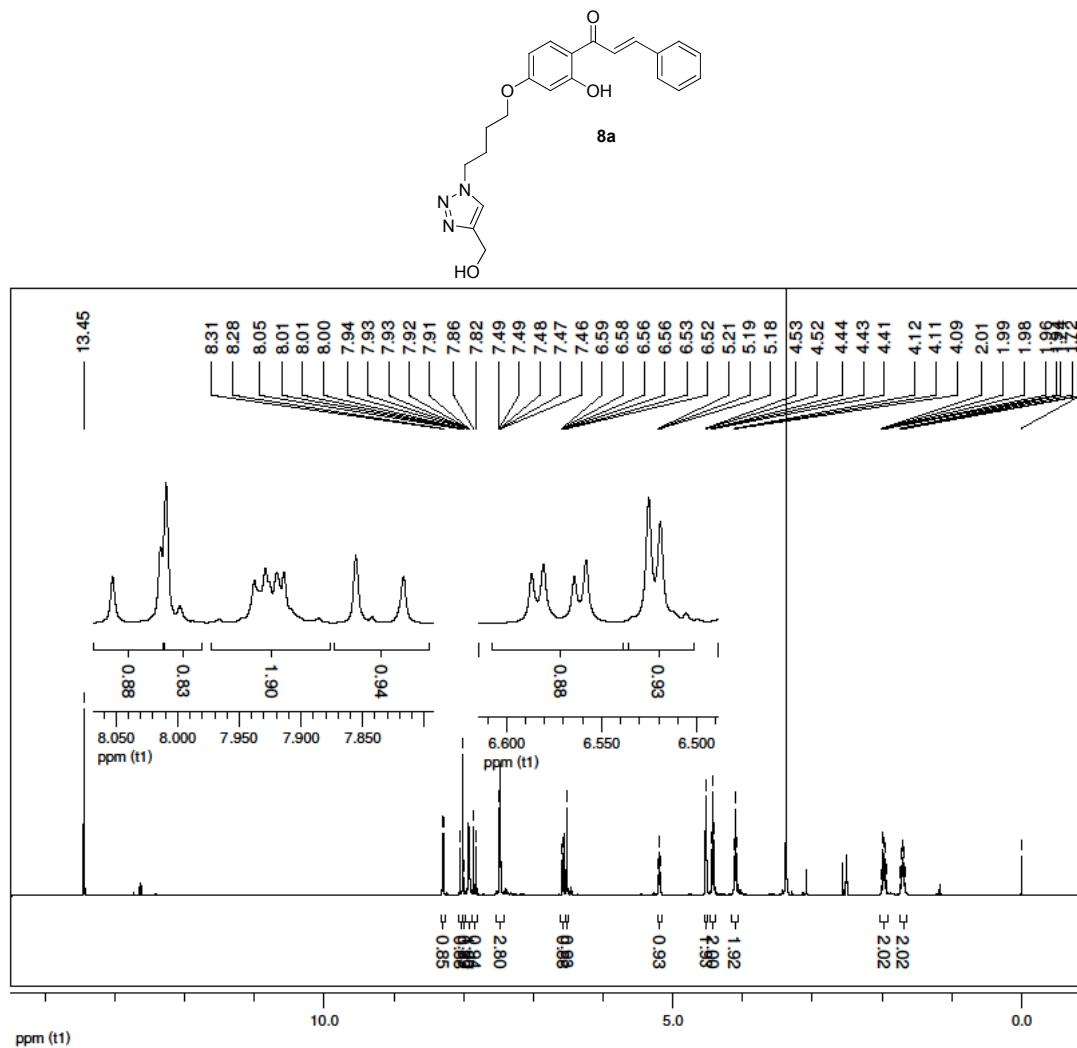


Figure S38. ^{13}C -NMR spectrum of compound **8a** ($\text{DMSO}-d_6$, 100 MHz).

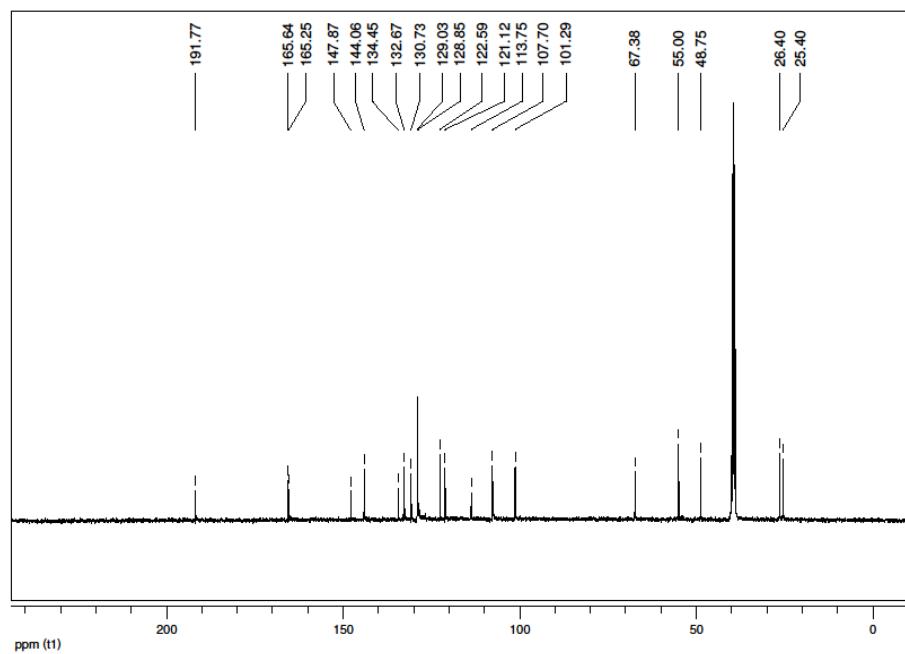


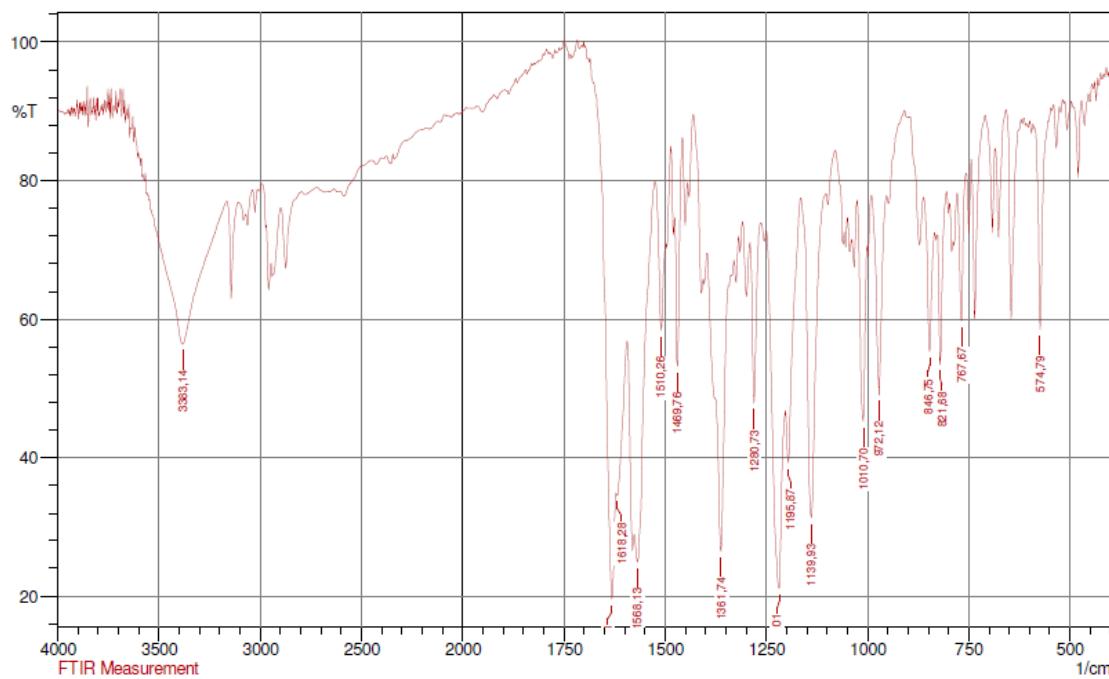
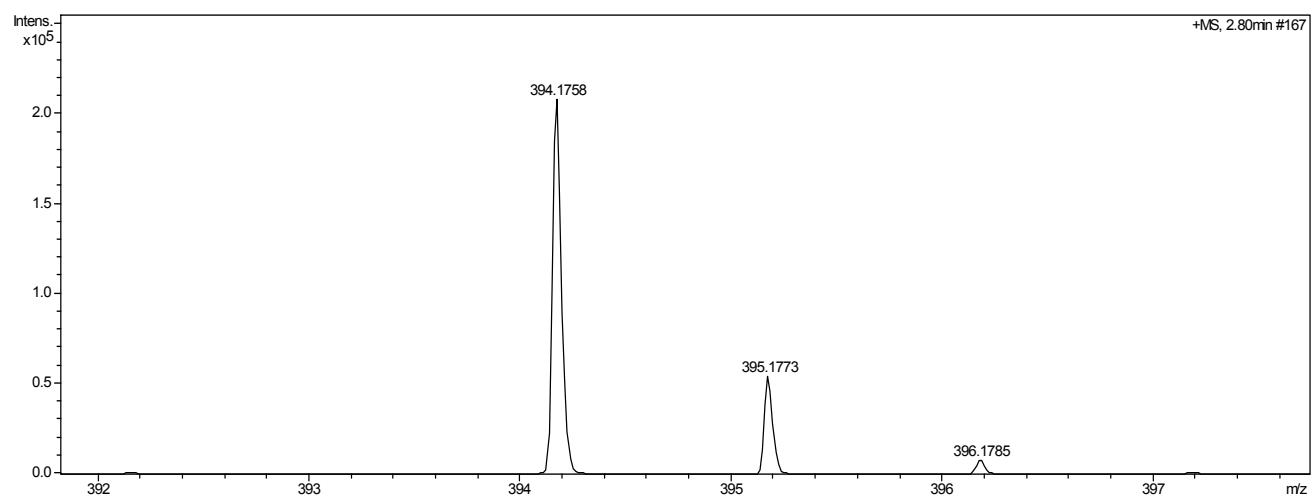
Figure S39. IR spectrum of compound 8a.**Figure S40.** HRMS spectrum of compound 8a.

Figure S41. ^1H -NMR spectrum of compound **8b** ($\text{CDCl}_3/\text{DMSO}-d_6$, 400 MHz).

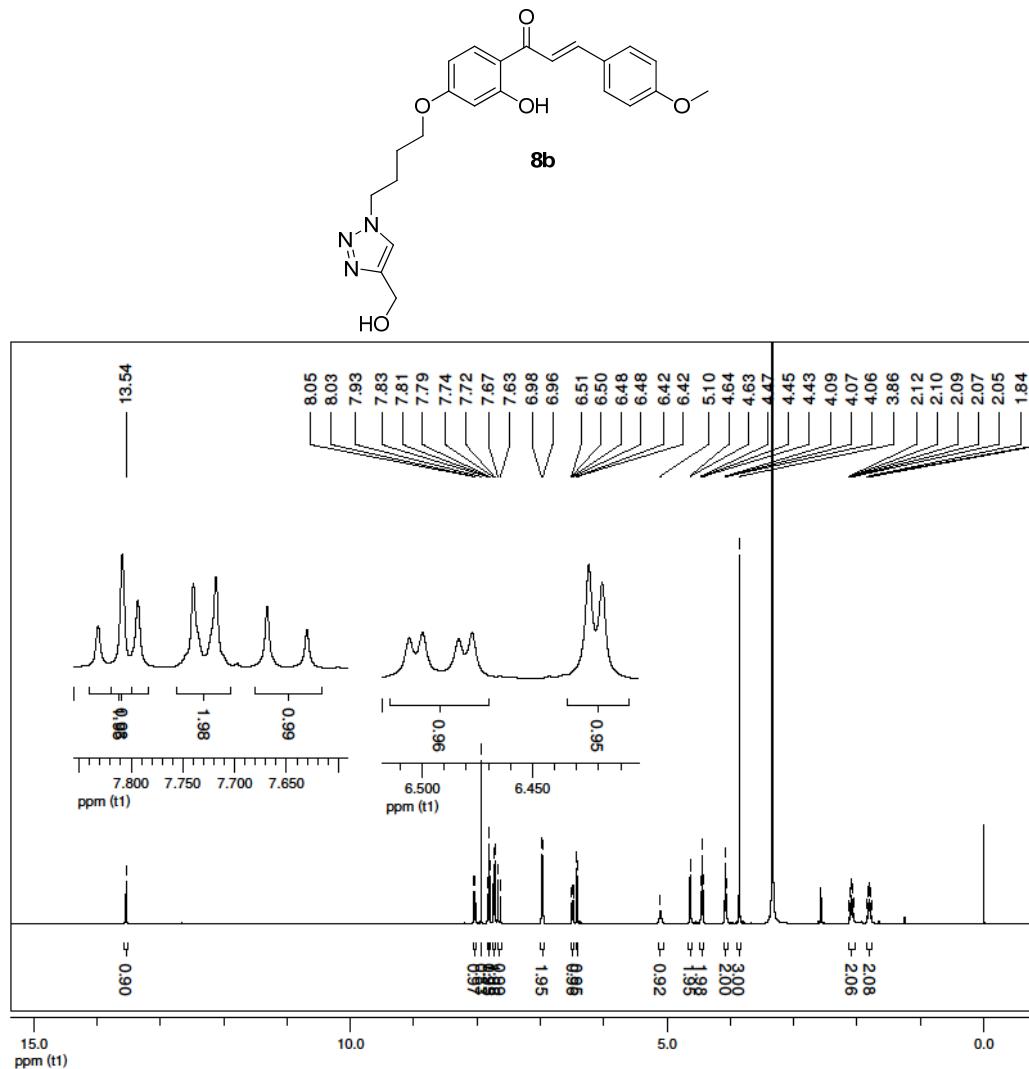


Figure S42. ^{13}C -NMR spectrum of compound **8b** ($\text{CDCl}_3/\text{DMSO}-d_6$, 100 MHz).

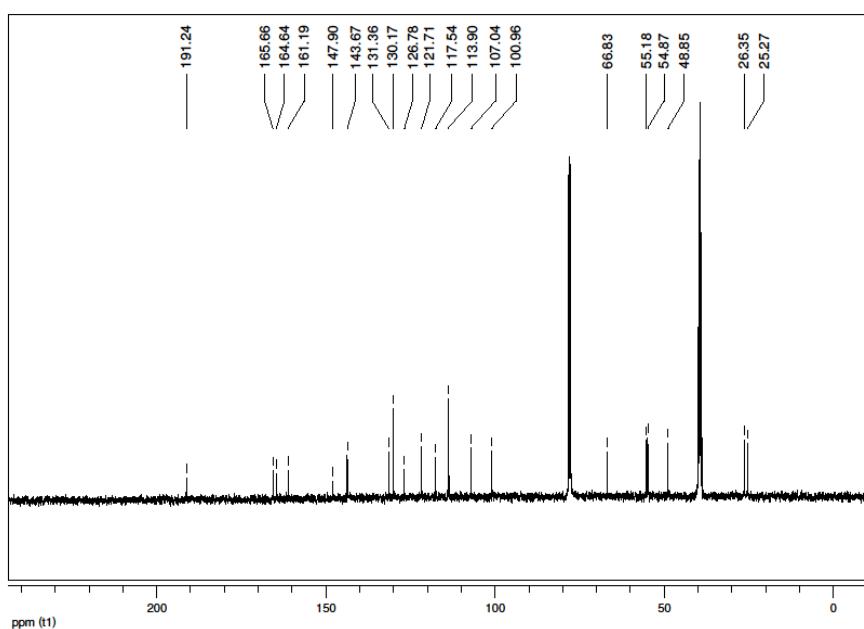


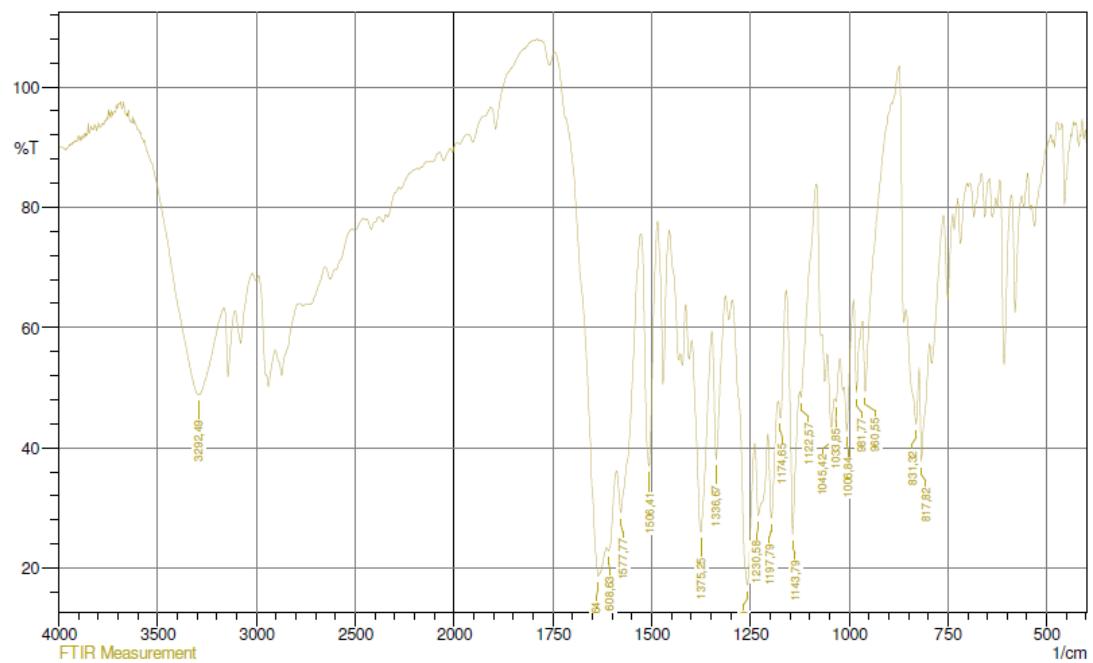
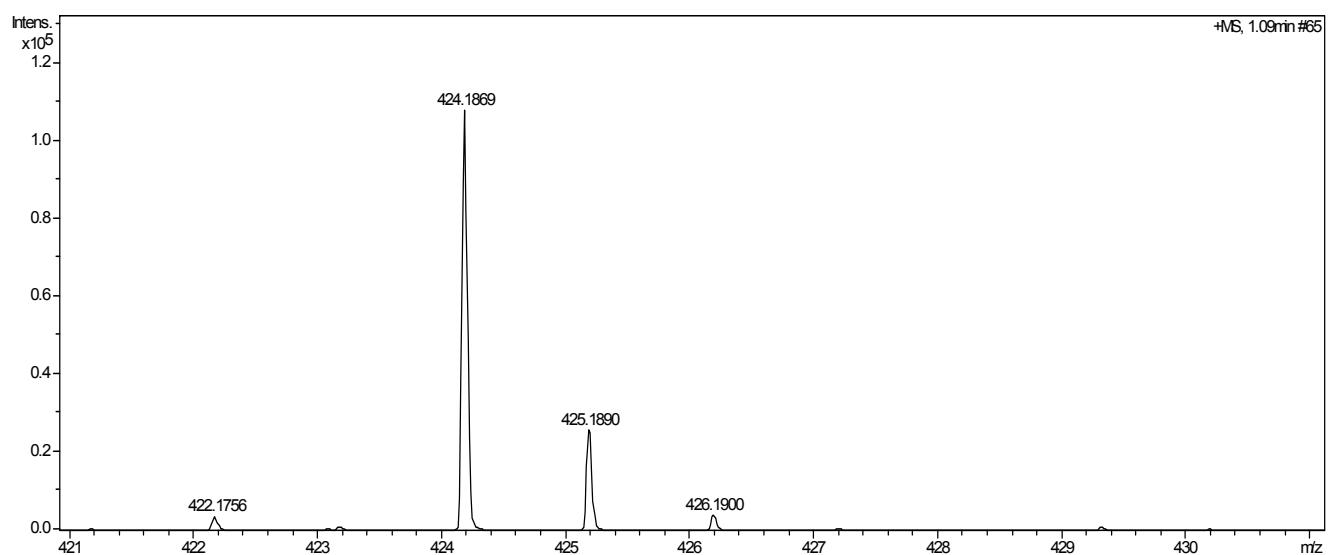
Figure S43. IR spectrum of compound **8b**.**Figure S44.** HRMS spectrum of compound **8b**.

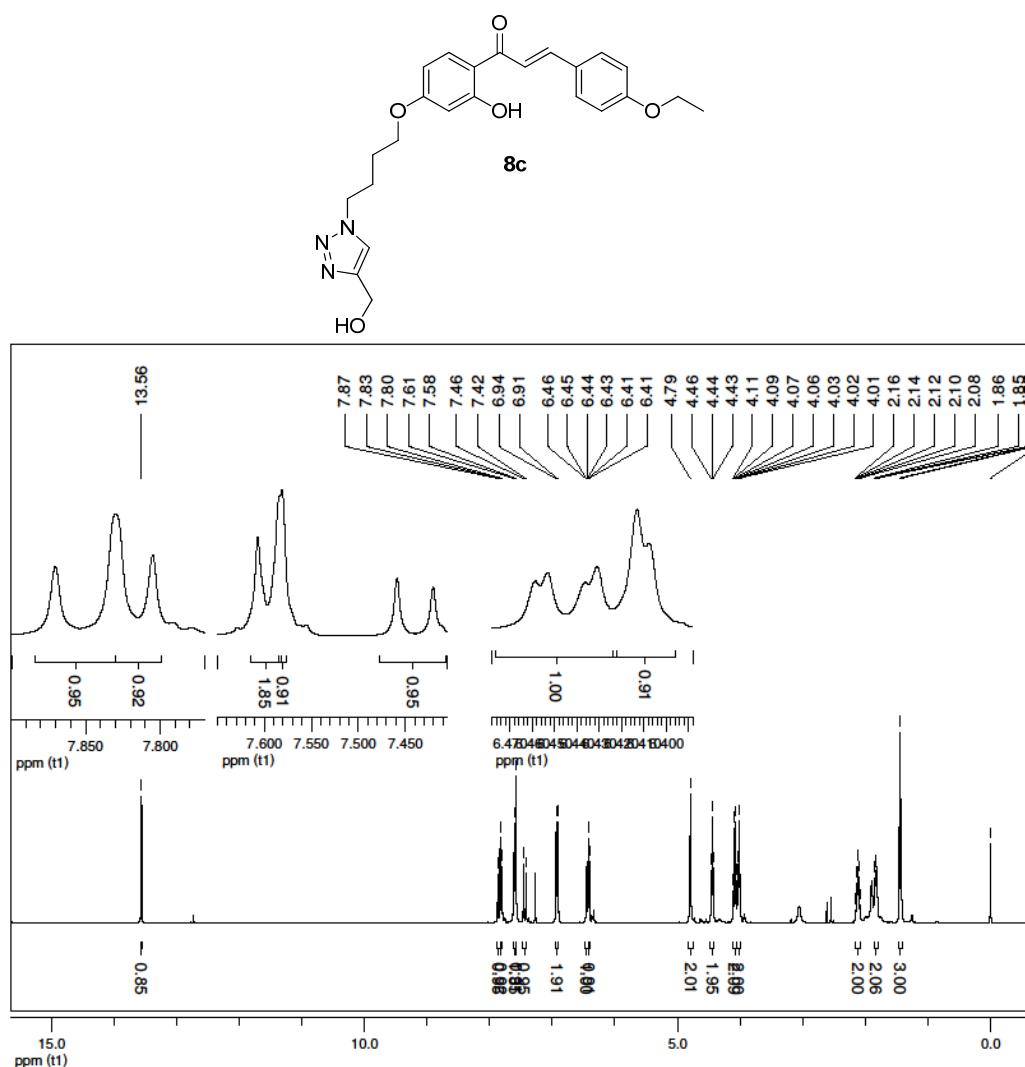
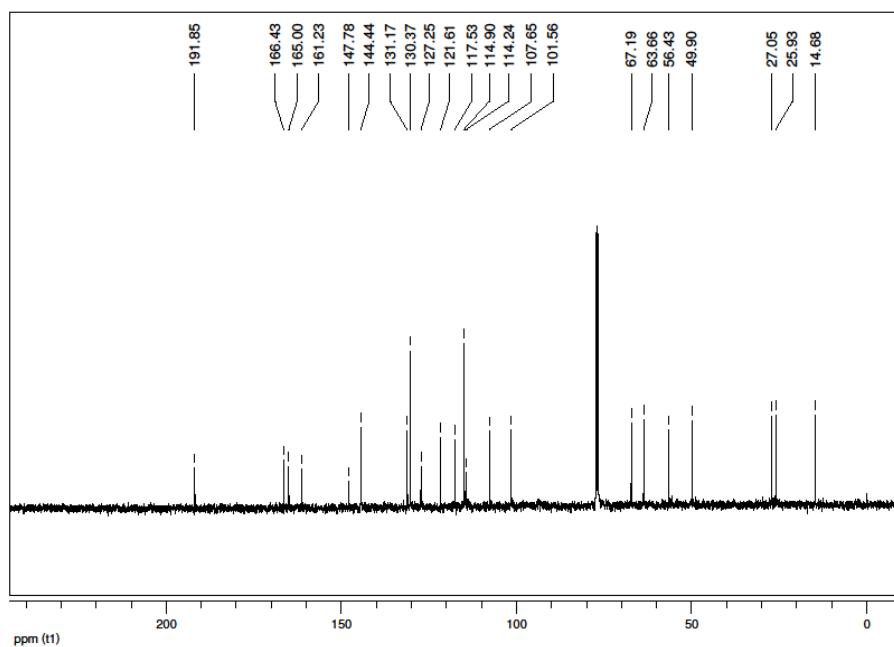
Figure S45. ^1H -NMR spectrum of compound **8c** (CDCl_3 , 400 MHz).**Figure S46.** ^{13}C -NMR spectrum of compound **8c** (CDCl_3 , 100 MHz).

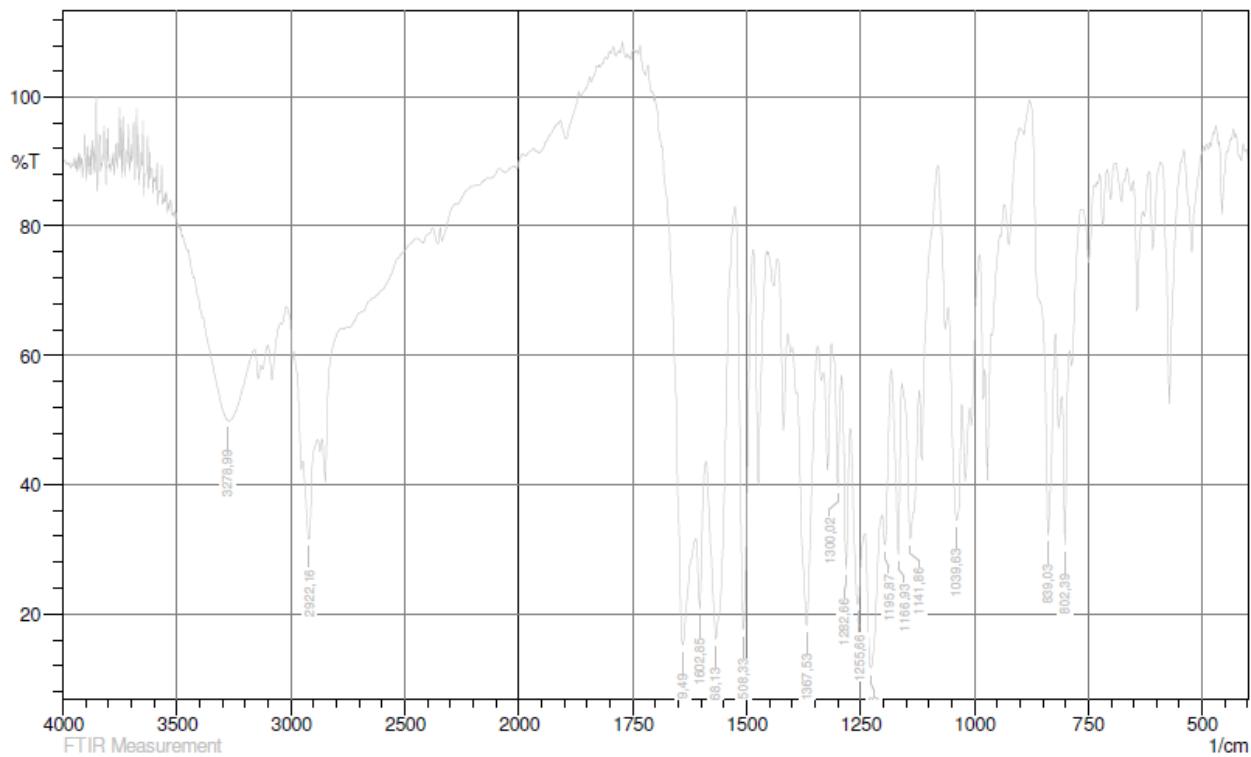
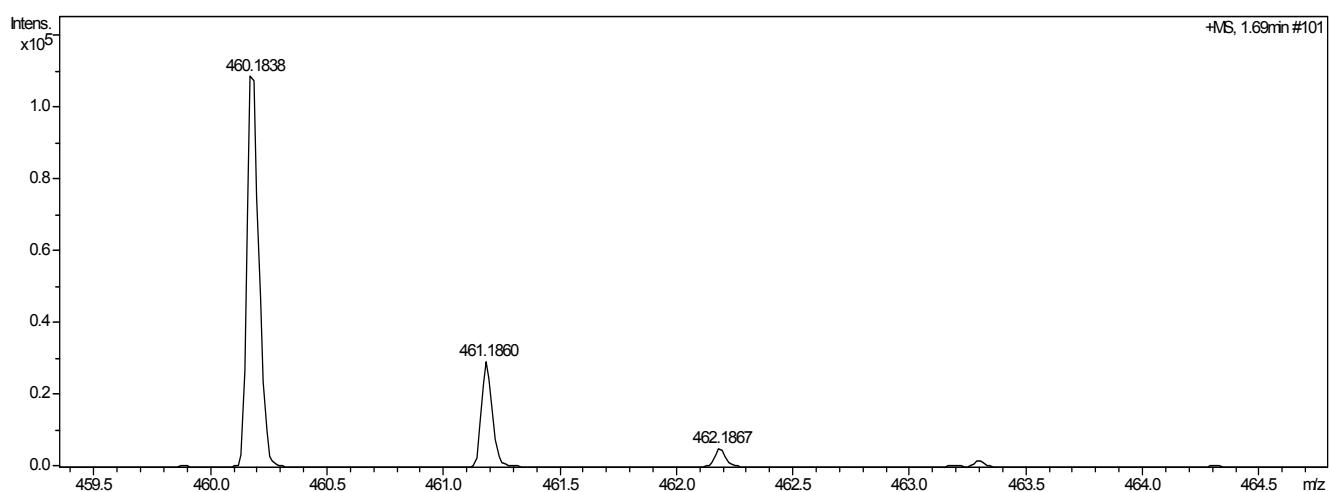
Figure S47. IR spectrum of compound **8c**.**Figure S48.** HRMS spectrum of compound **8c**.

Figure S49. ^1H -NMR spectrum of compound **8d** (DMSO- d_6 , 400 MHz).

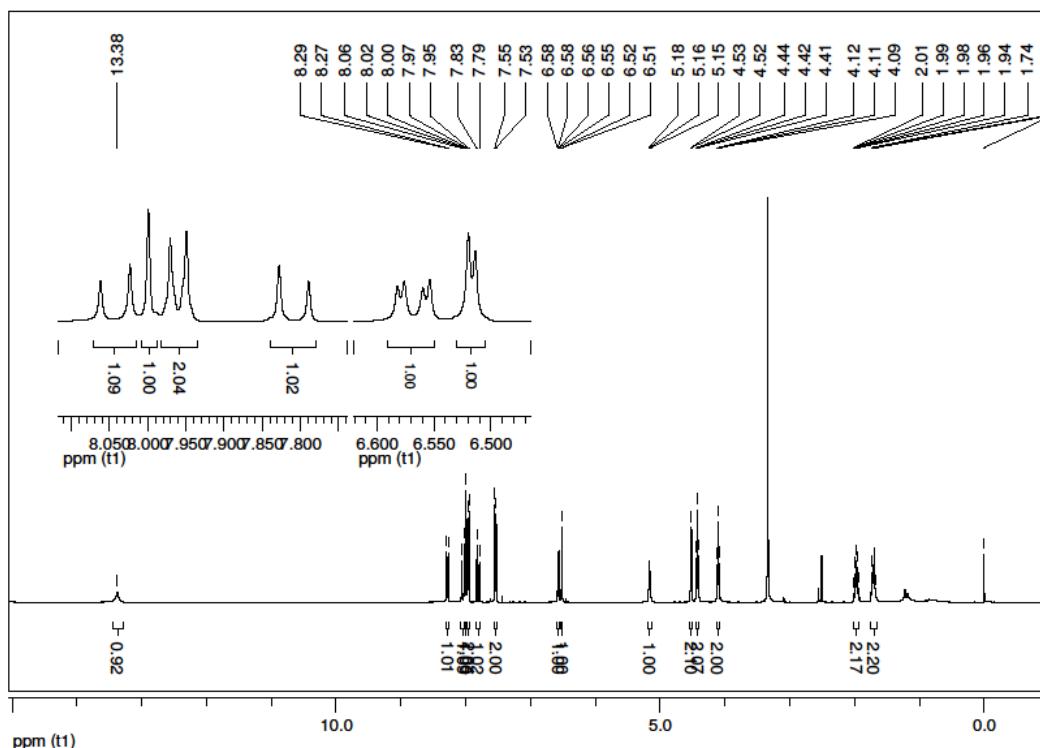
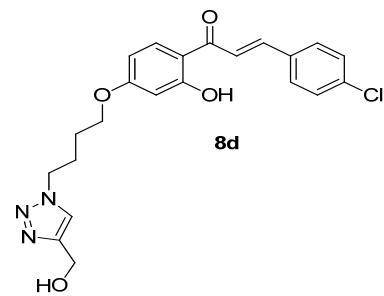


Figure S50. ^{13}C -NMR spectrum of compound **8d** (DMSO- d_6 , 100 MHz).

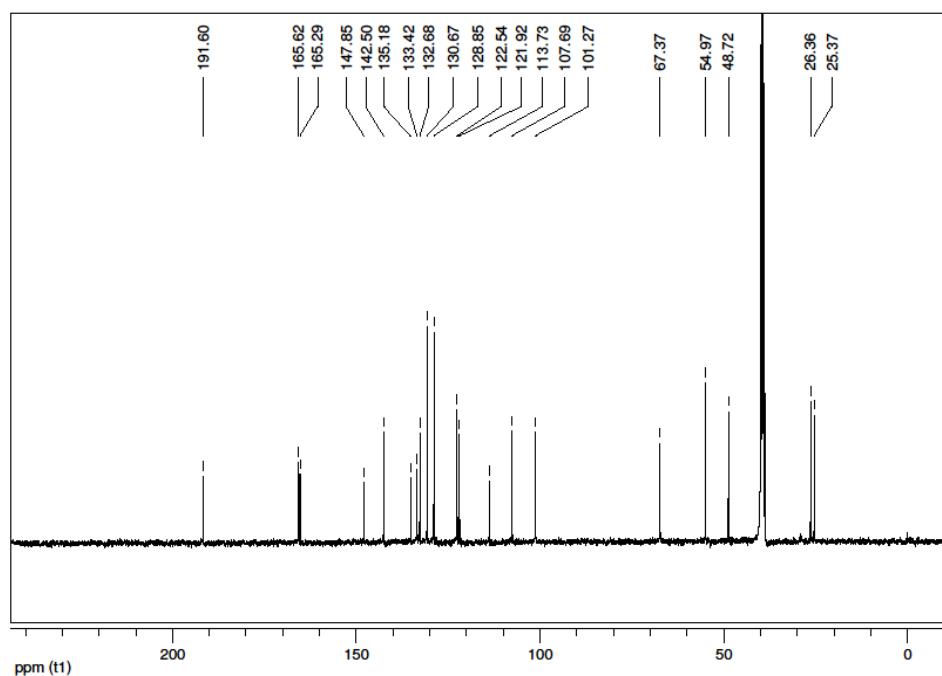


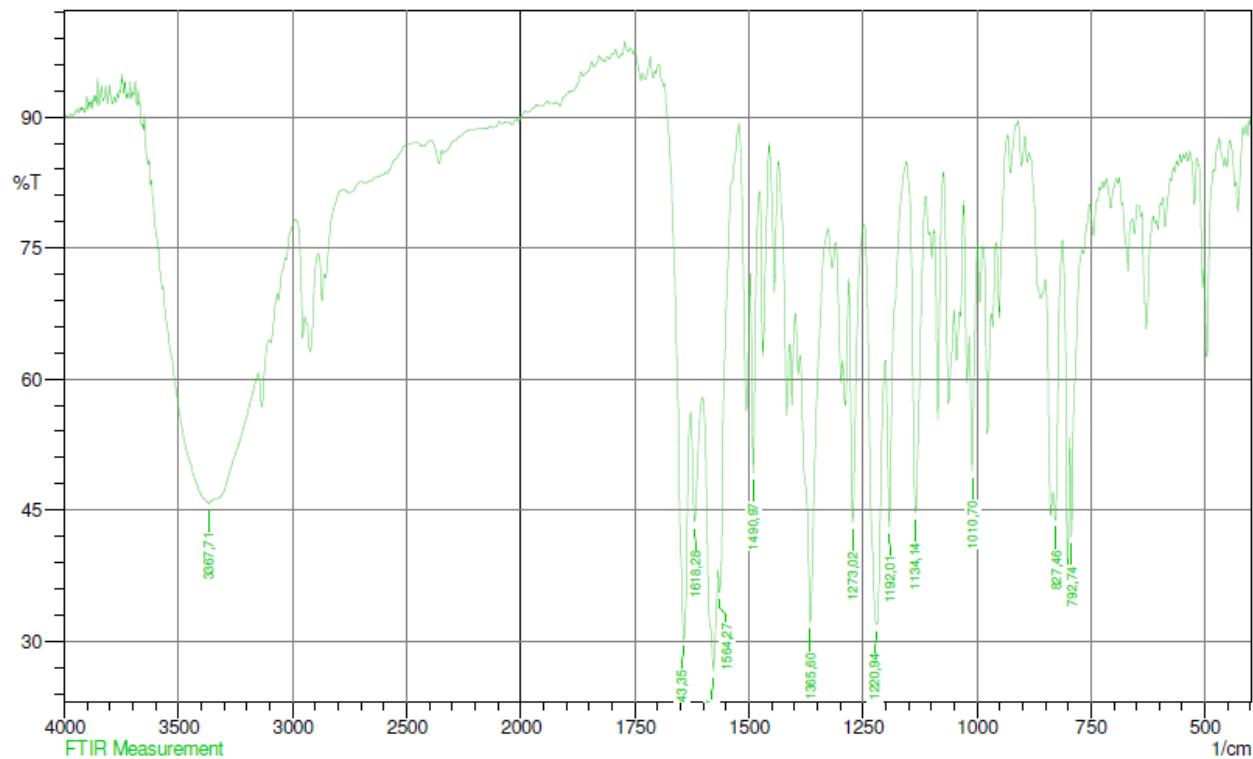
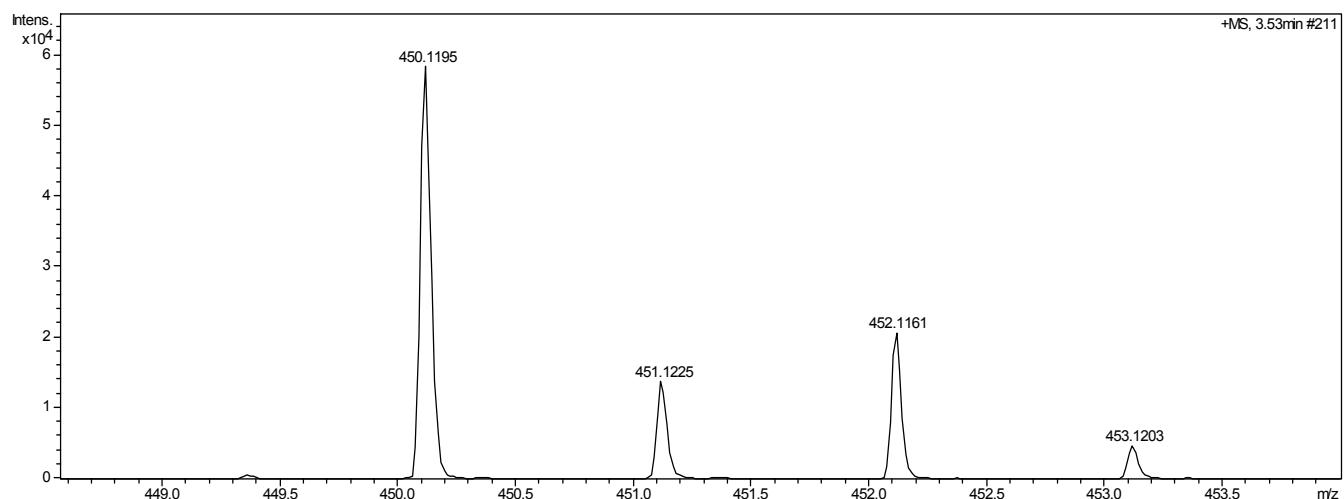
Figure S51. IR spectrum of compound **8d**.**Figure S52.** HRMS spectrum of compound **8d**.

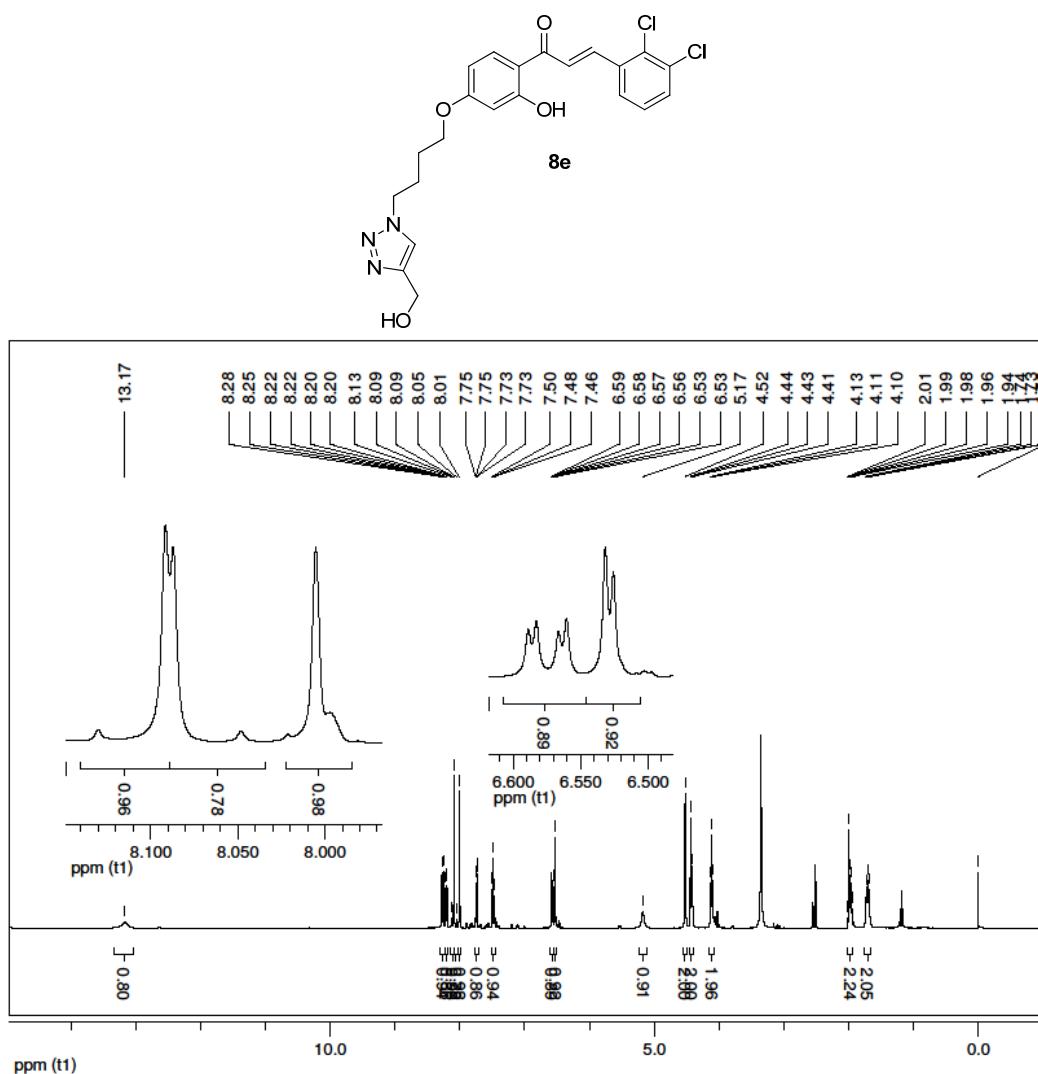
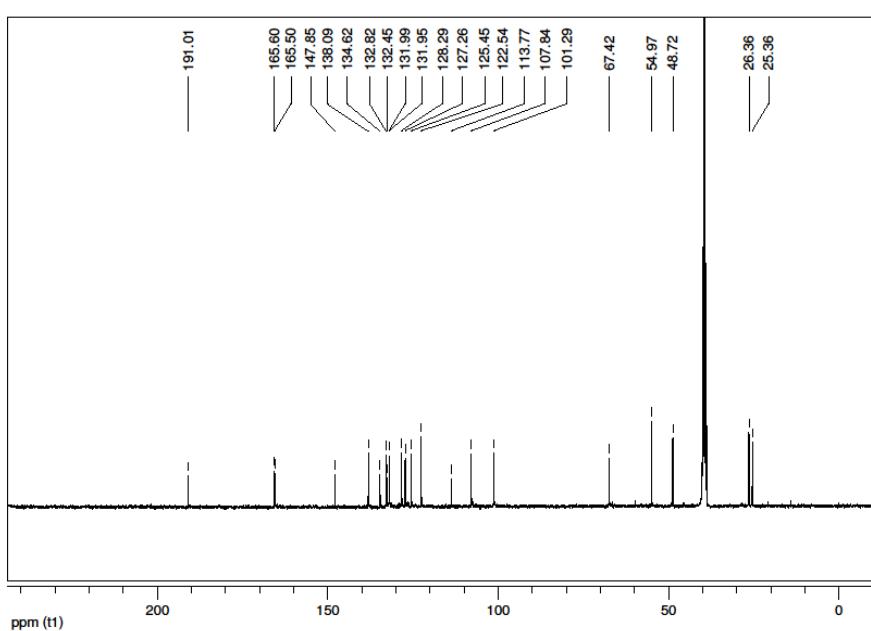
Figure S53. ^1H -NMR spectrum of compound **8e** (DMSO- d_6 , 400 MHz).**Figure S54.** ^{13}C -NMR spectrum of compound **8e** (DMSO- d_6 , 100 MHz).

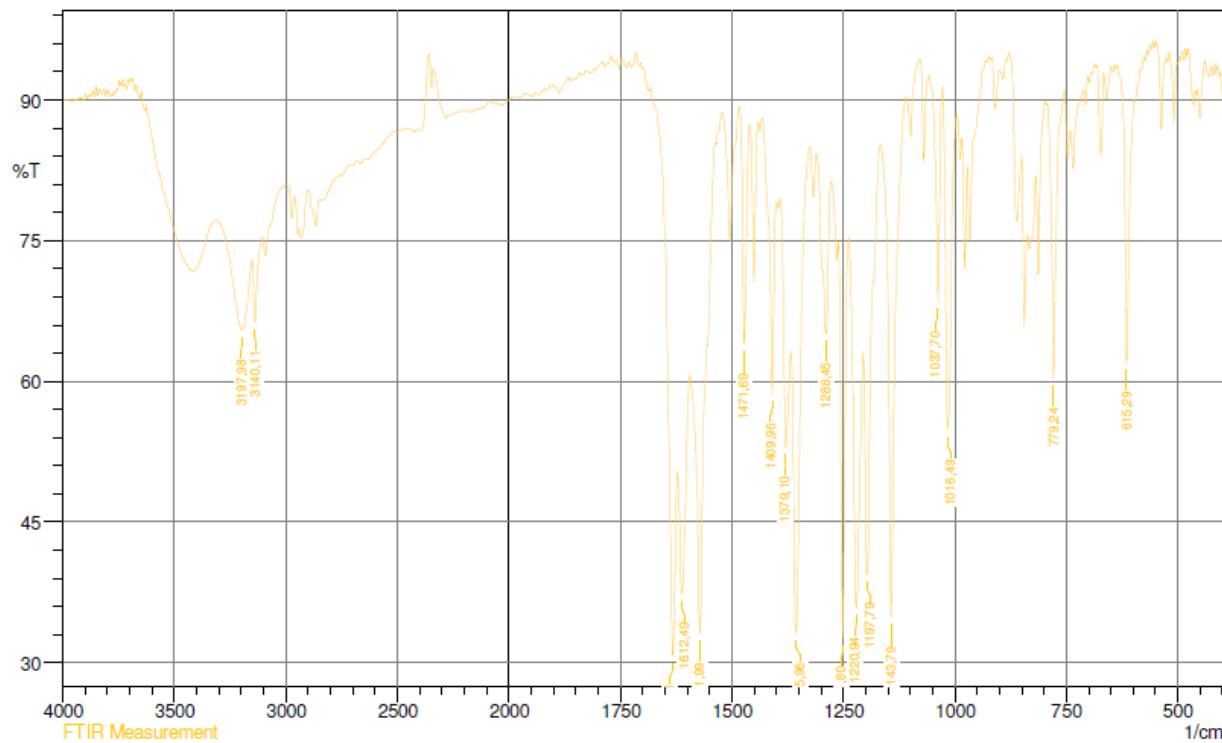
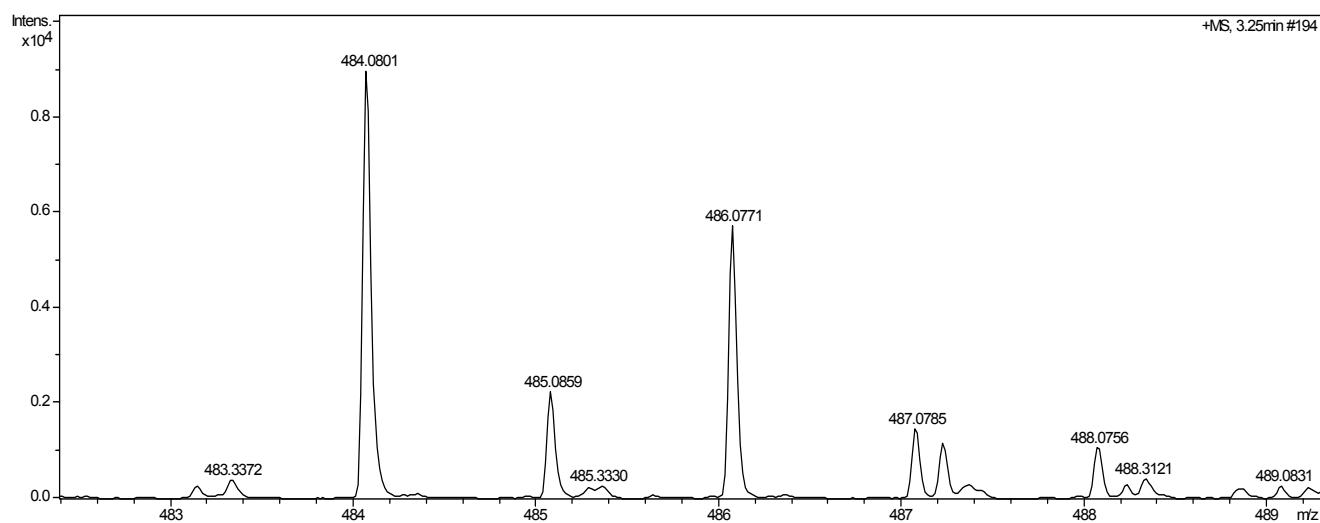
Figure S55. IR spectrum of compound 8e.**Figure S56.** HRMS spectra of compound 8e.

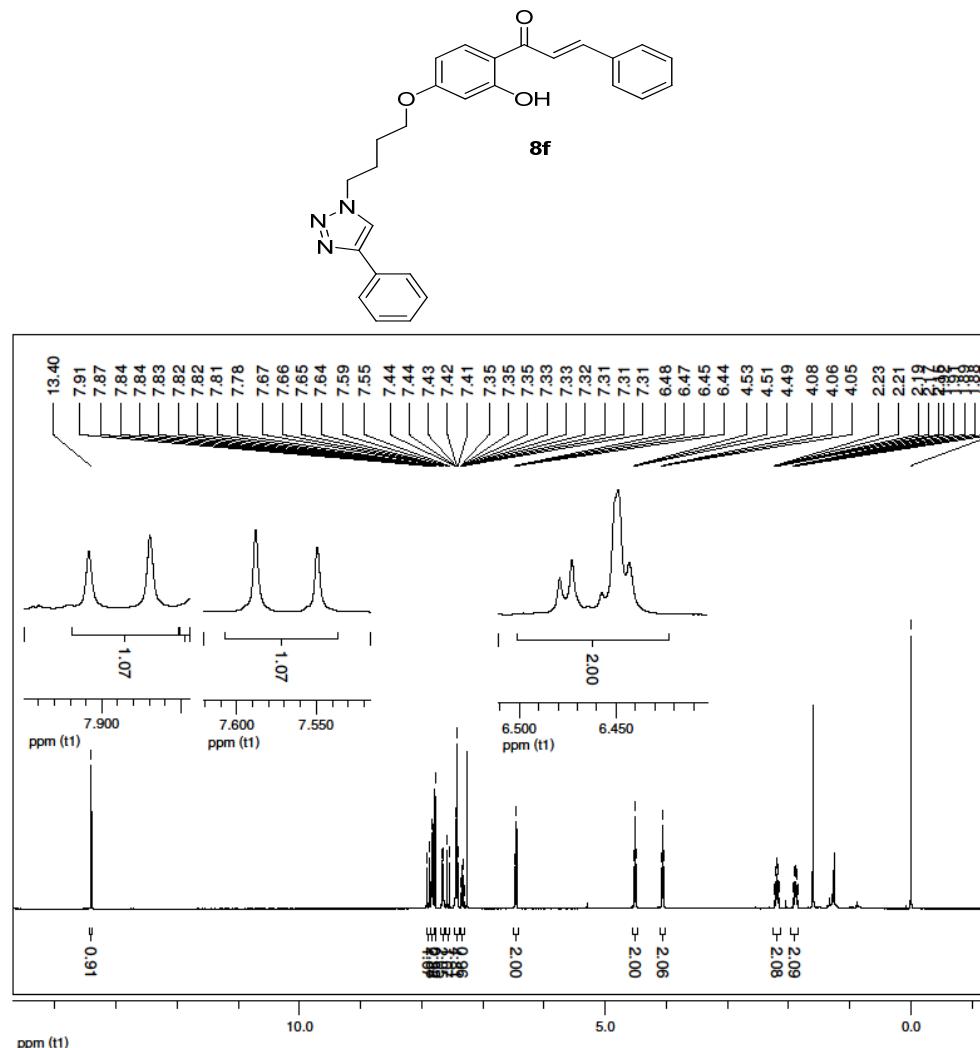
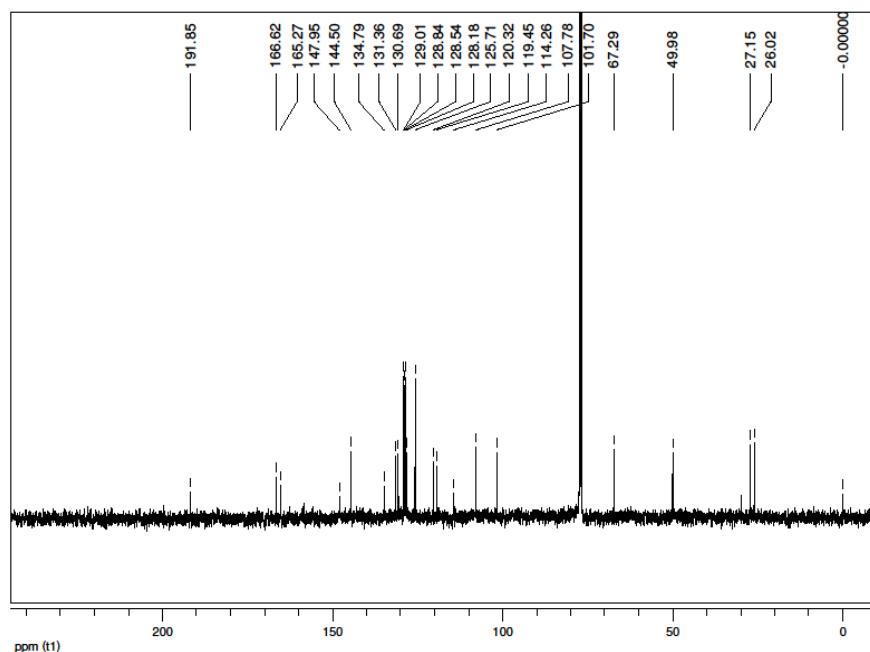
Figure S57. ^1H -NMR spectrum of compound **8f** (CDCl_3 , 400 MHz).**Figure S58.** ^{13}C -NMR spectrum of compound **8f** (CDCl_3 , 100 MHz).

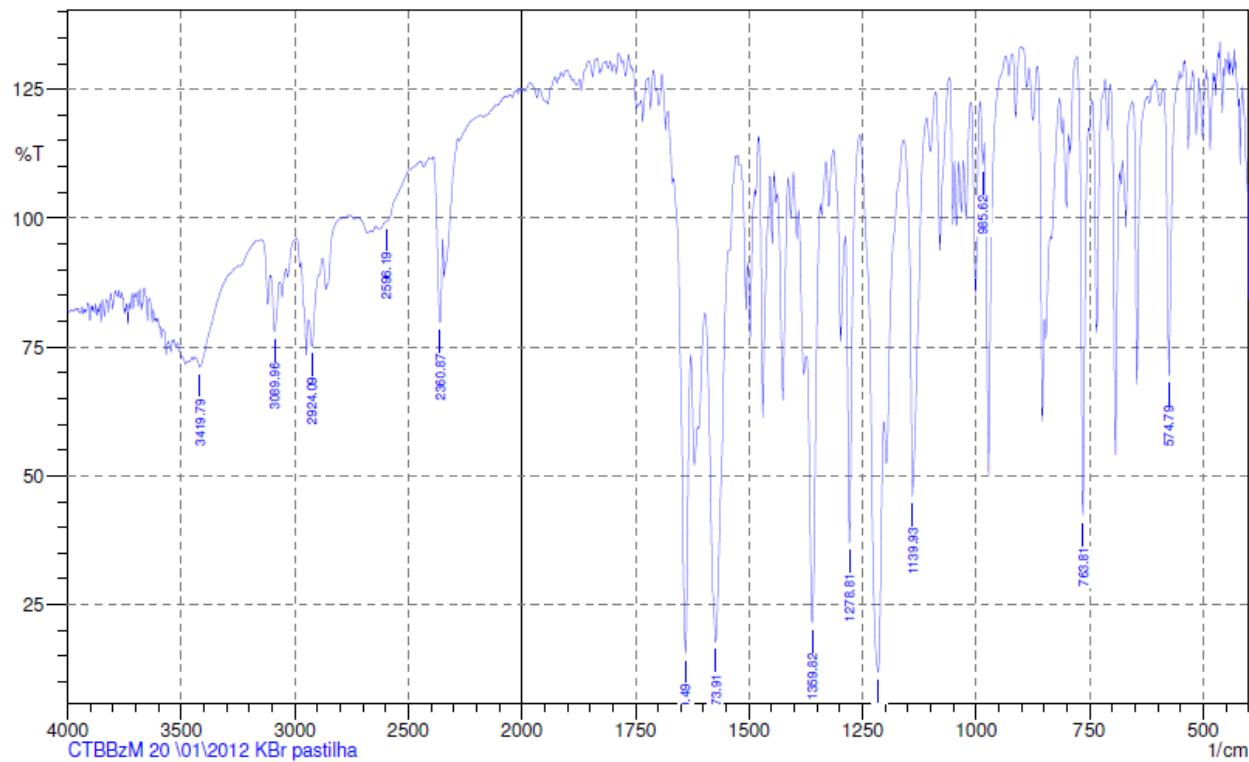
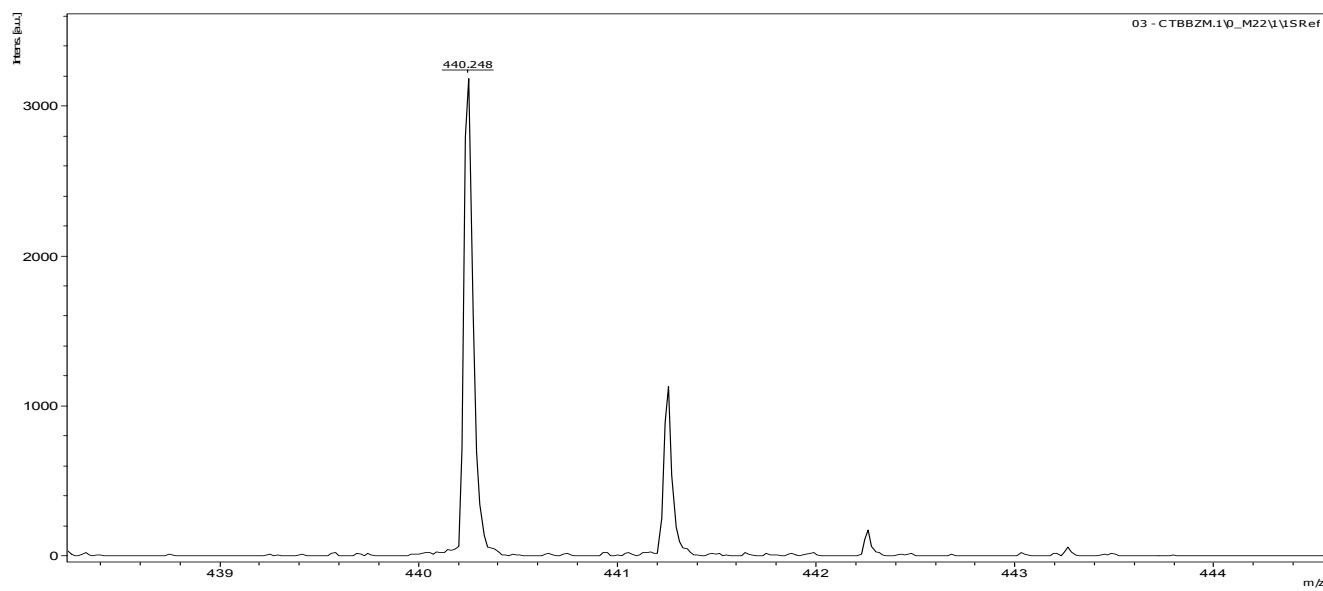
Figure S59. IR spectrum of compound 8f.**Figure S60.** HRMS spectrum of compound 8f.

Figure 61. ^1H -NMR spectrum of compound **8g** (CDCl_3 , 400 MHz).

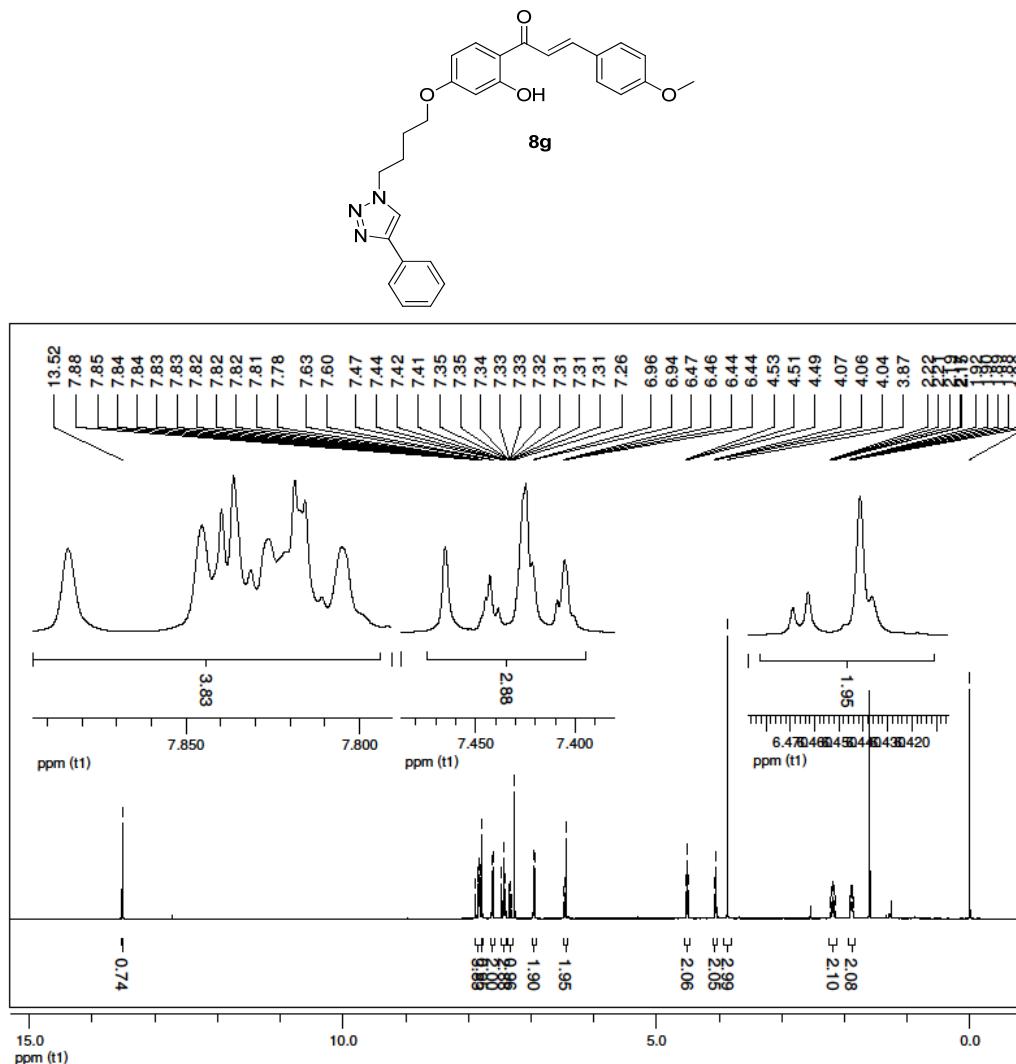


Figure S62. ^{13}C -NMR spectrum of **8g** (CDCl_3 , 100 MHz).

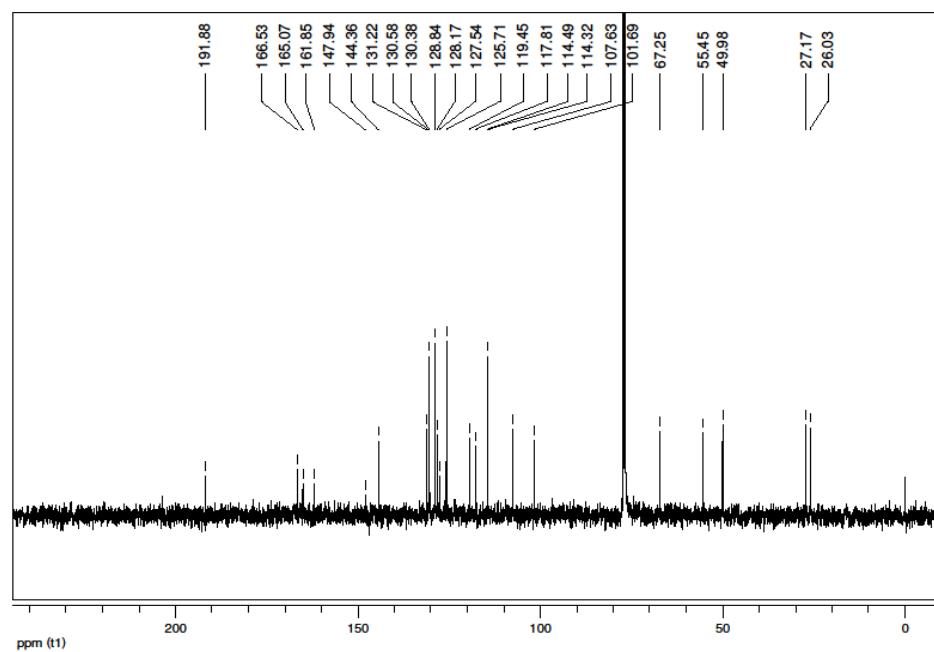


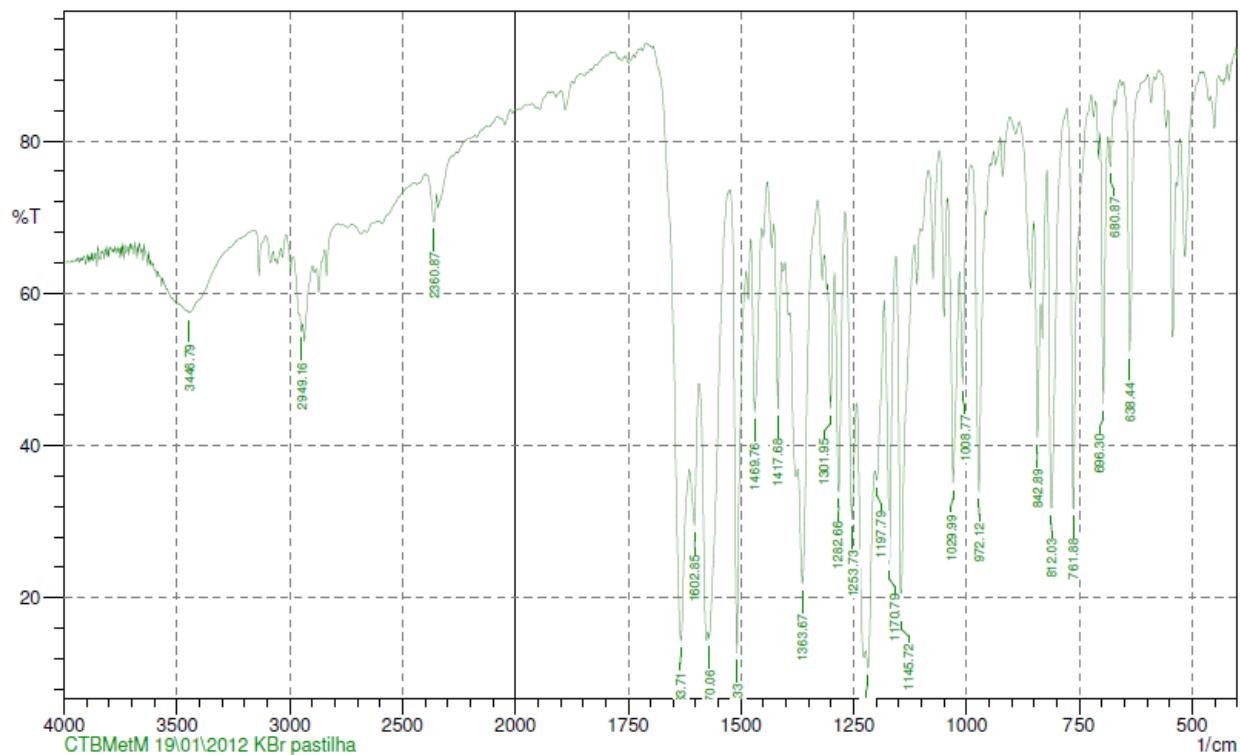
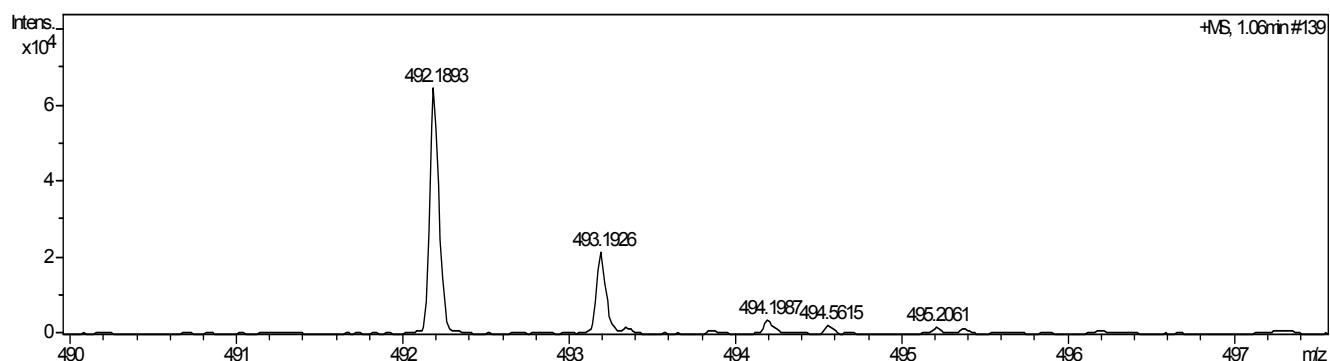
Figure S63. IR spectrum of compound 8g.**Figure S64.** HRMS spectrum of compound 8g.

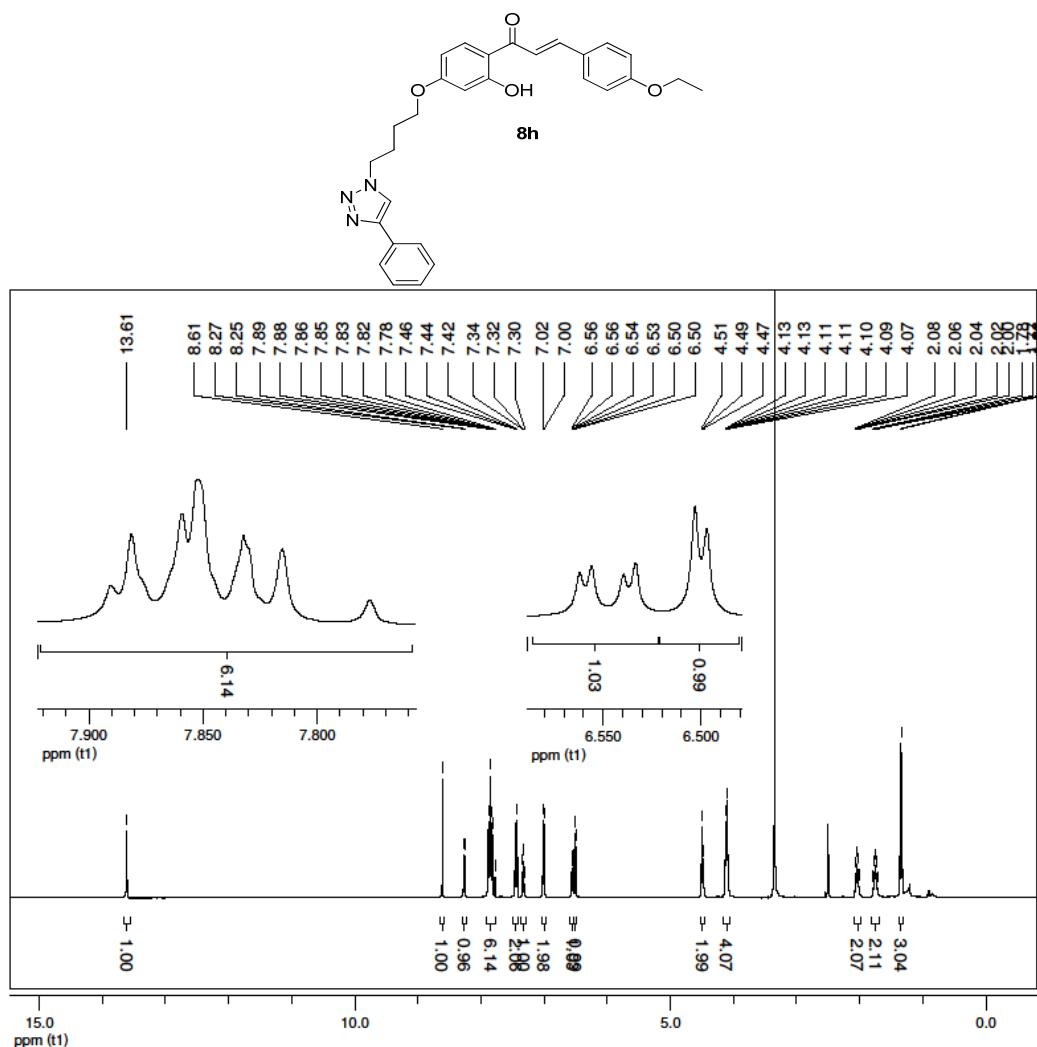
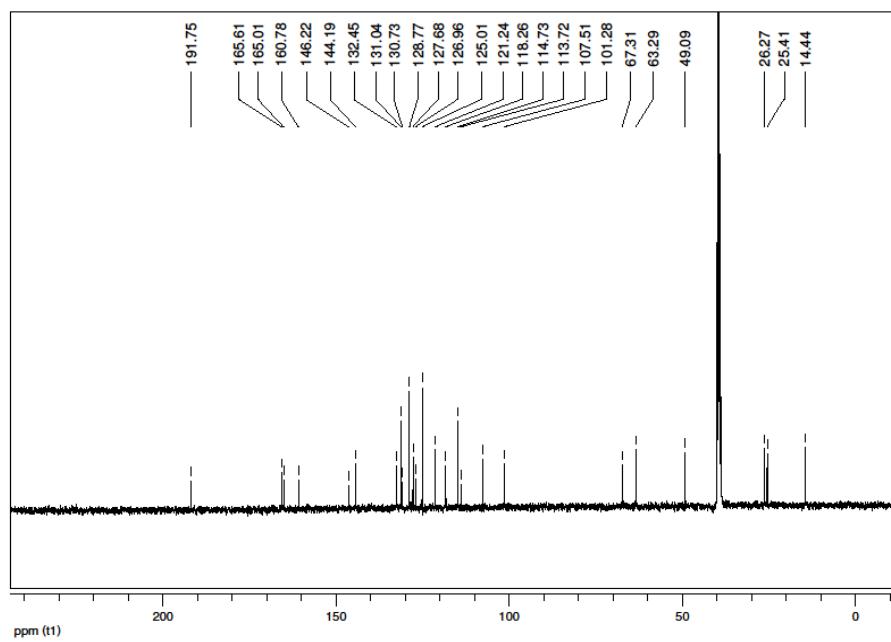
Figure S65. ^1H -NMR spectrum of compound **8h** (DMSO- d_6 , 400 MHz).**Figure S66.** ^{13}C -NMR spectrum of compound **8h** (DMSO- d_6 , 100 MHz).

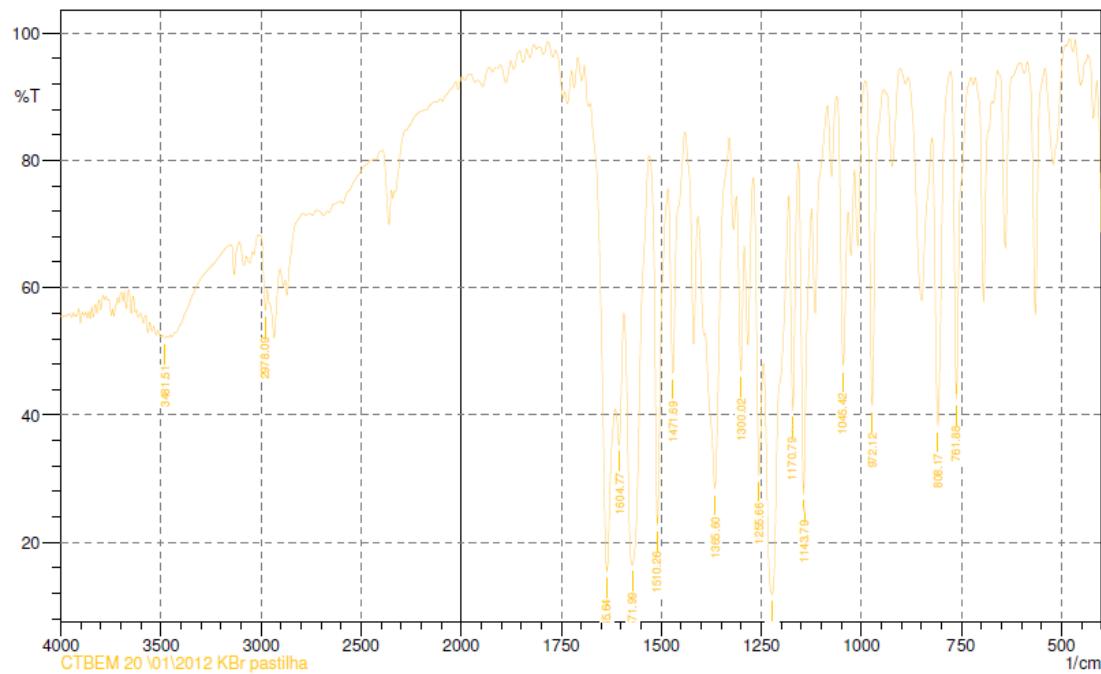
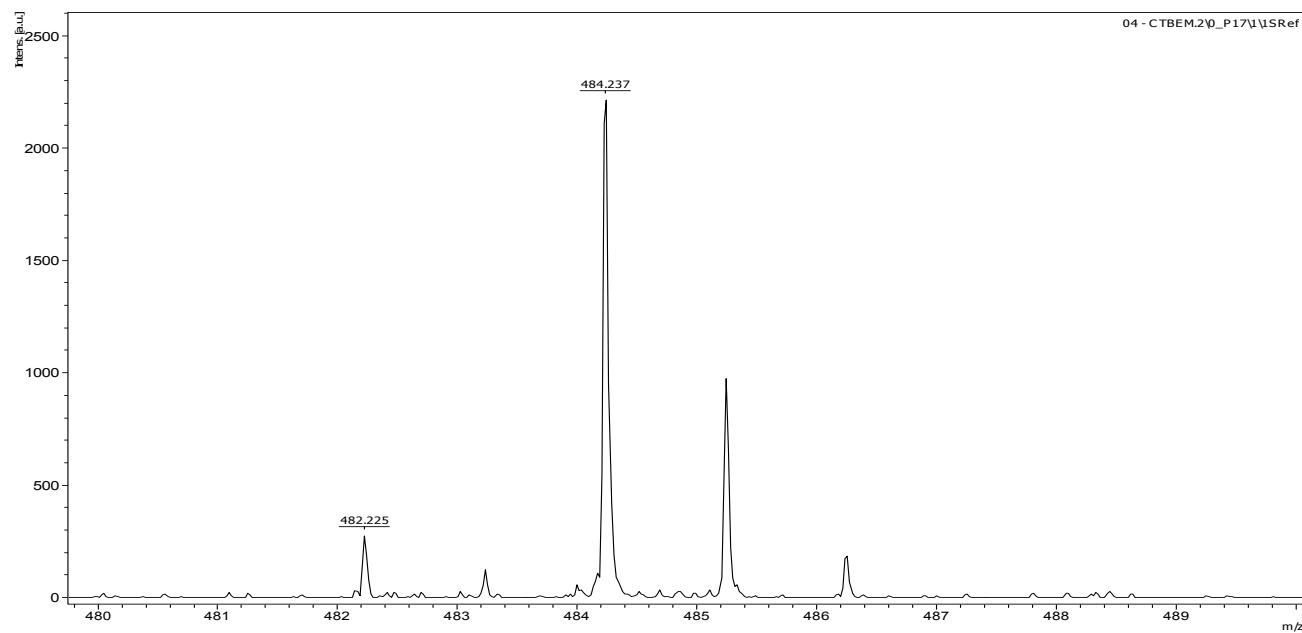
Figure S67. IR spectrum of compound **8h**.**Figure S68.** HRMS spectrum of compound **8h**.

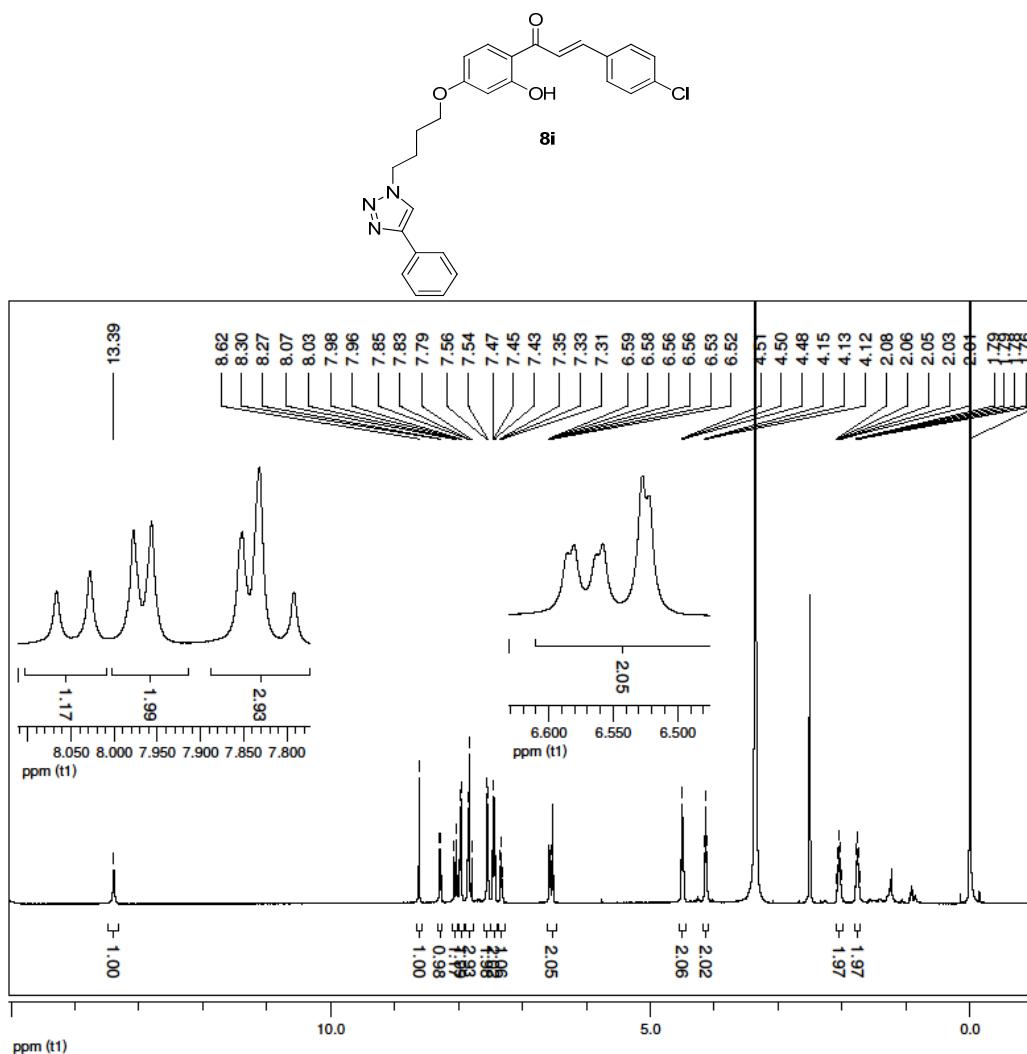
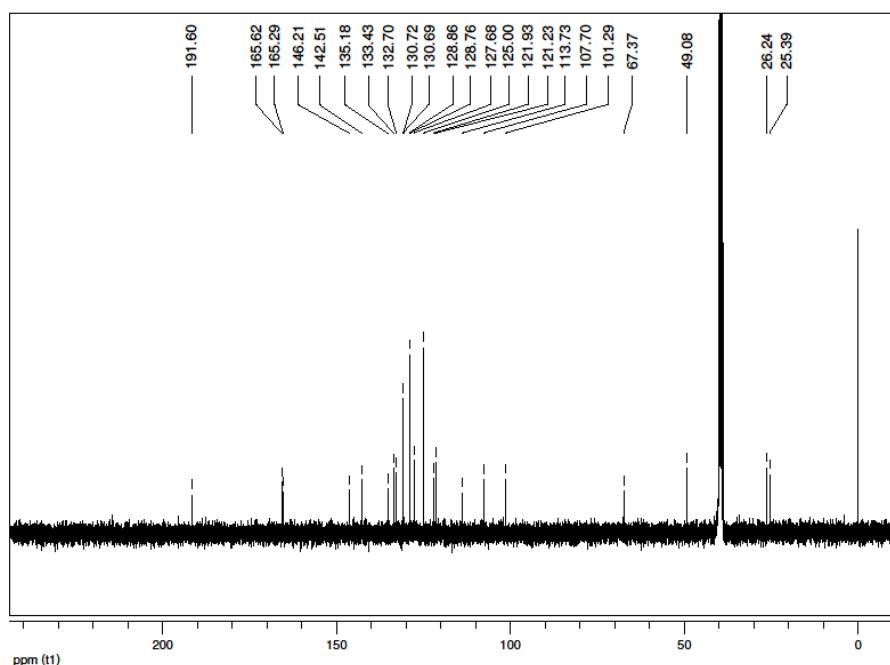
Figure S69. ^1H -NMR spectrum of compound **8i** (DMSO- d_6 , 400 MHz).**Figure 70.** ^{13}C -NMR spectrum of compound **8i** (DMSO- d_6 , 100 MHz).

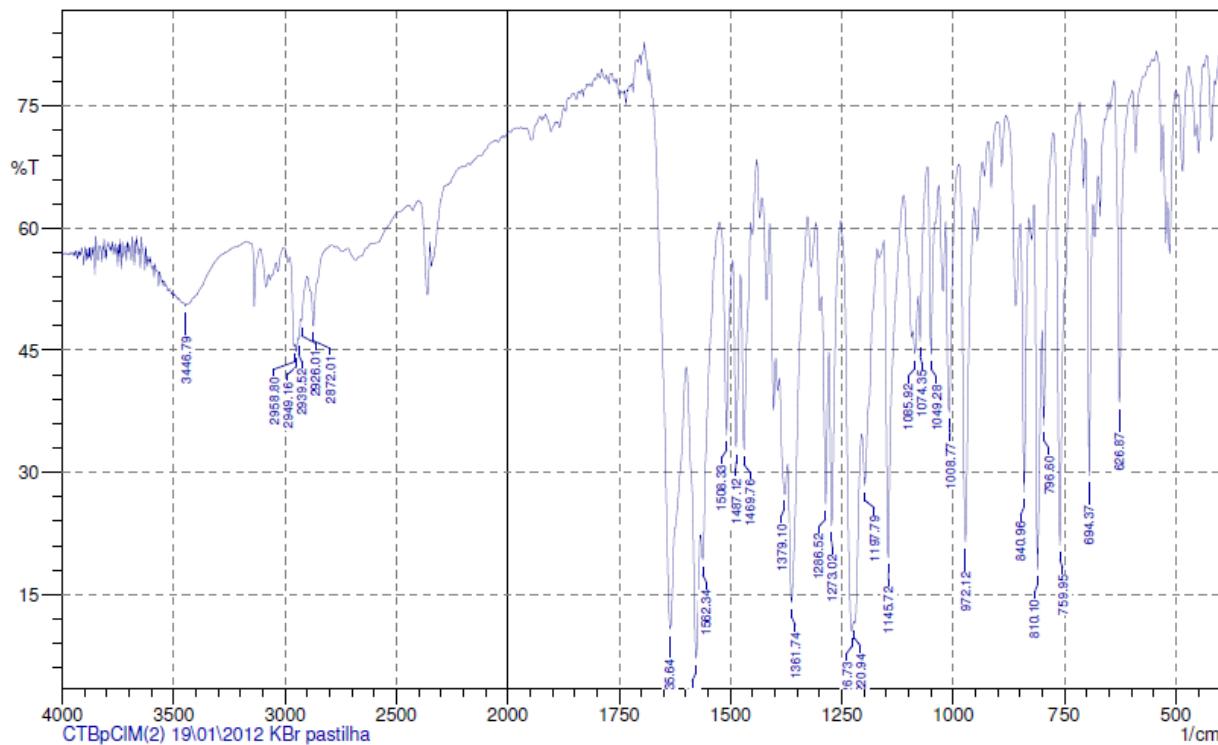
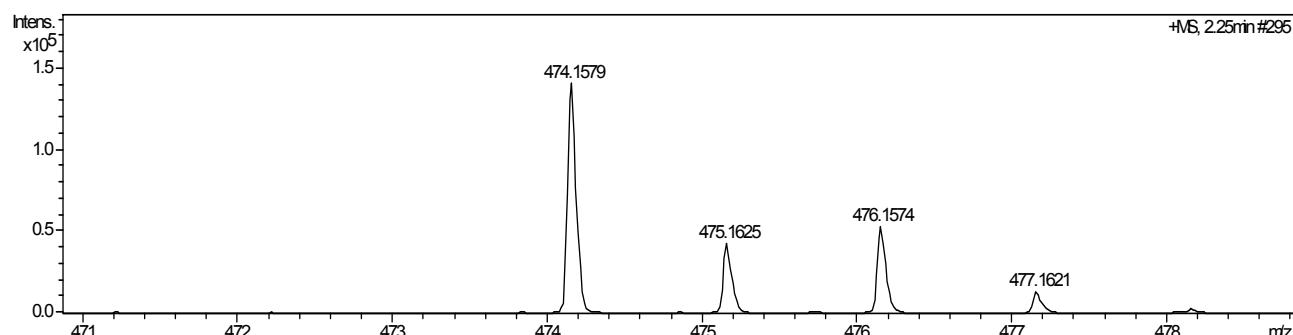
Figure S71. IR spectrum of compound **8i**.**Figure S72.** HRMS spectrum of compound **8i**.

Figure S73. ^1H -NMR spectrum of compound **8j** (CDCl_3 , 400 MHz).

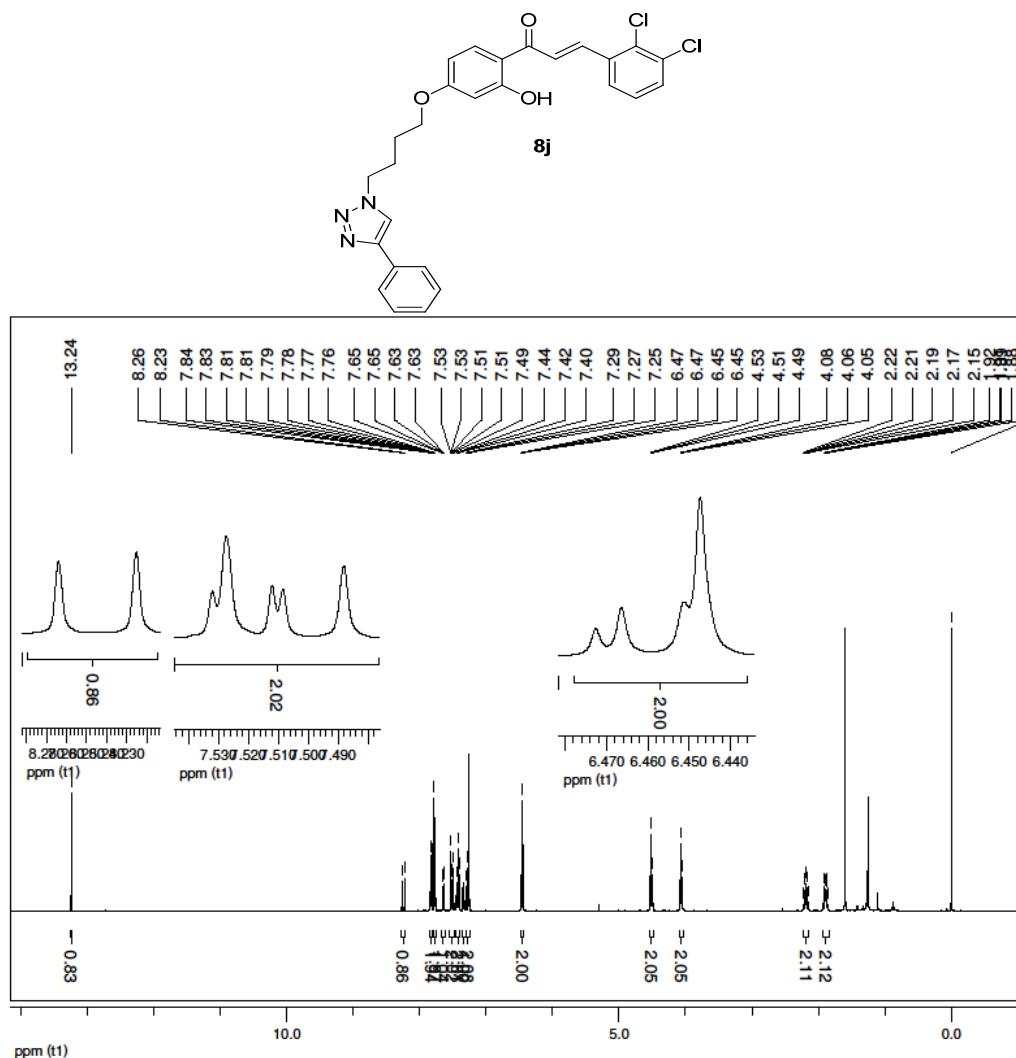


Figure S74. ^{13}C -NMR spectrum of compound **8j** (CDCl_3 , 100 MHz).

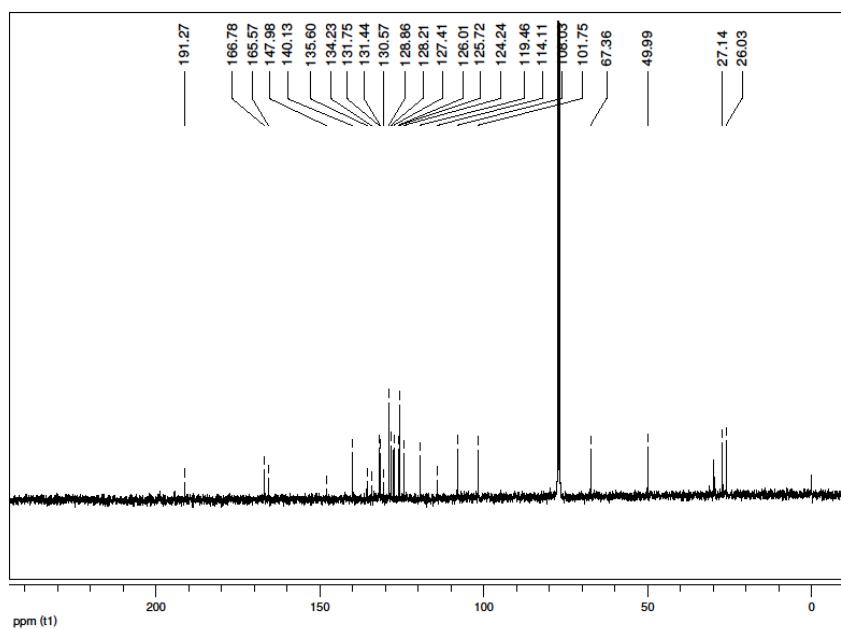
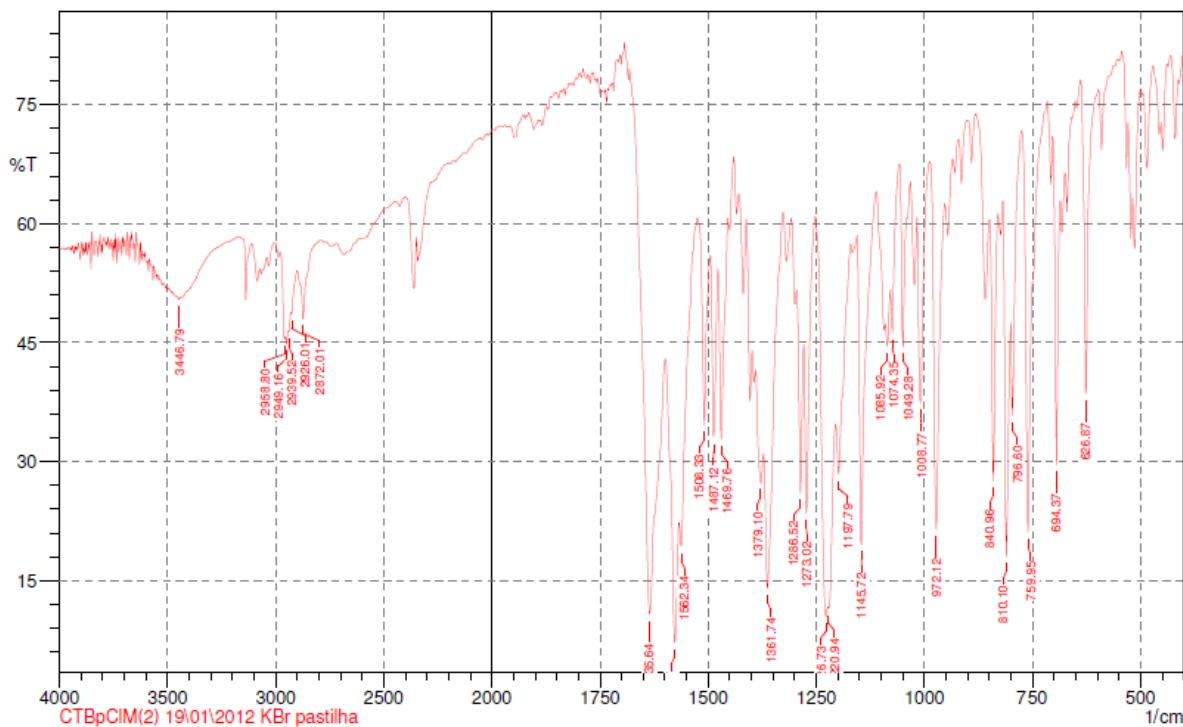


Figure S75. IR spectrum of compound **8j**.**Figure S76.** HRMS spectrum of compound **8j**.