

Supplementary Material

Simple synthesis of a new family of 22- to 28-membered macrocycles containing two chalcone moieties

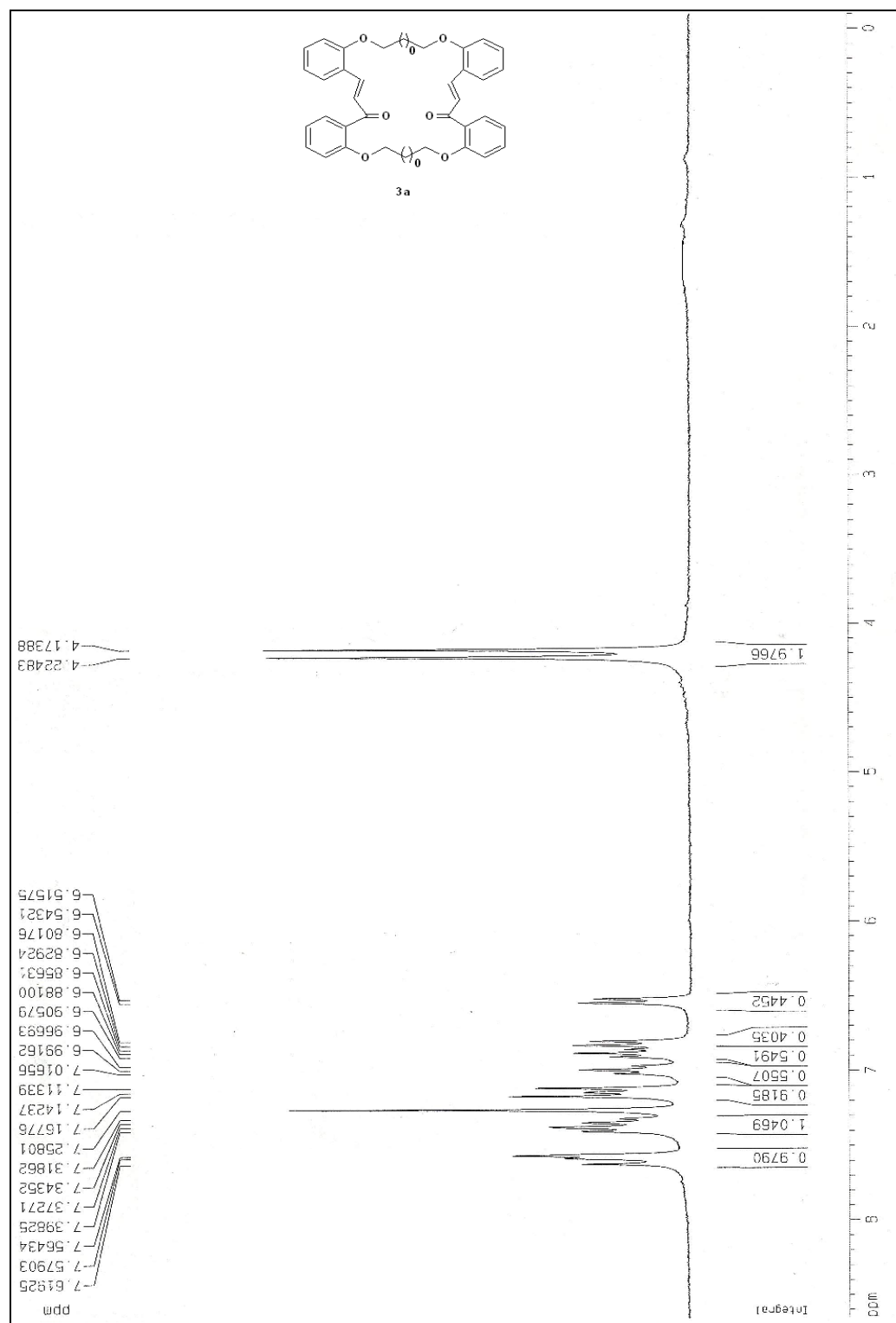
Rina Mondal, Tapas K Mandal, and Asok K. Mallik*

Department of Chemistry, Jadavpur University, Kolkata-700 032, India

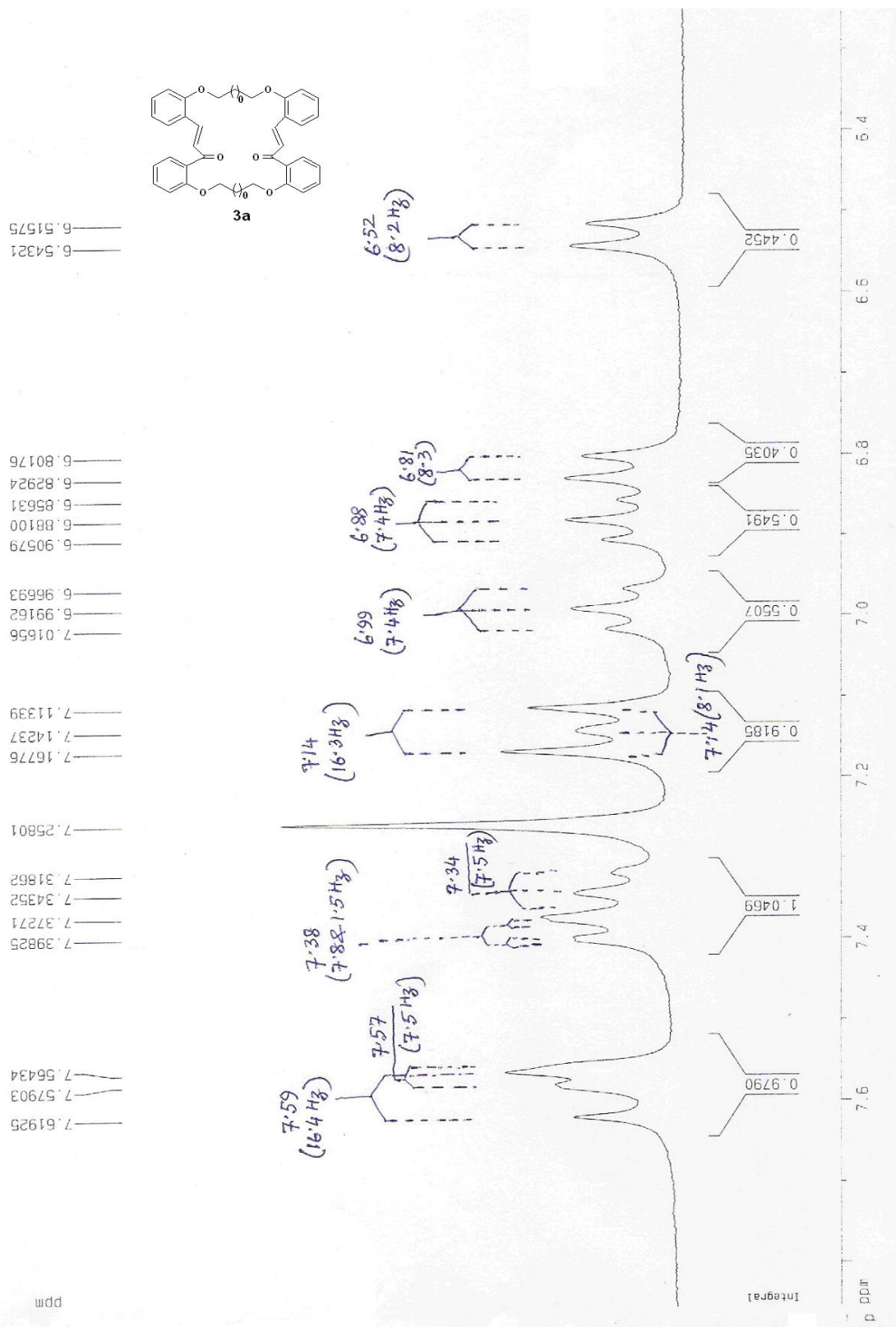
E-mail: mallikak52@yahoo.co.in

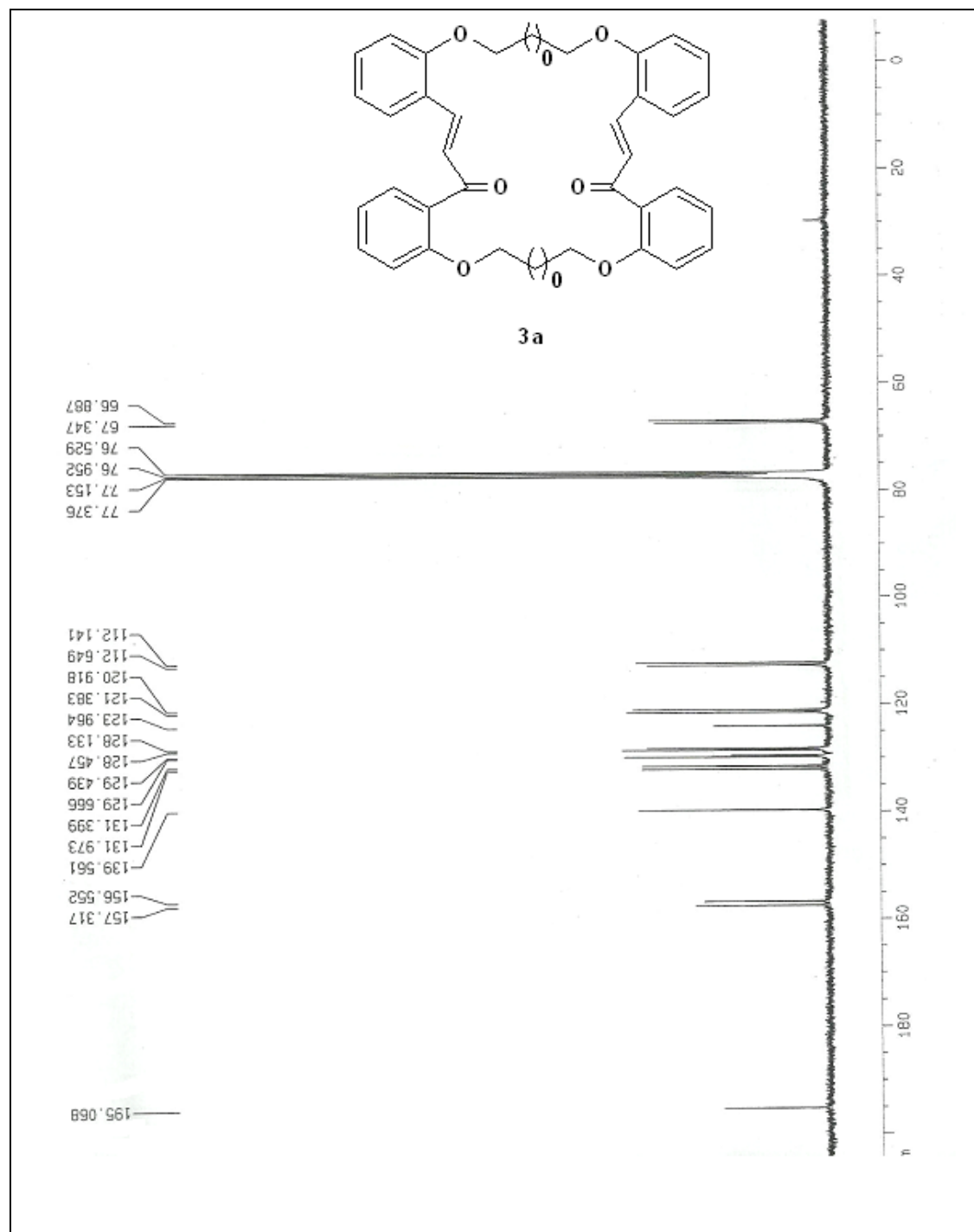
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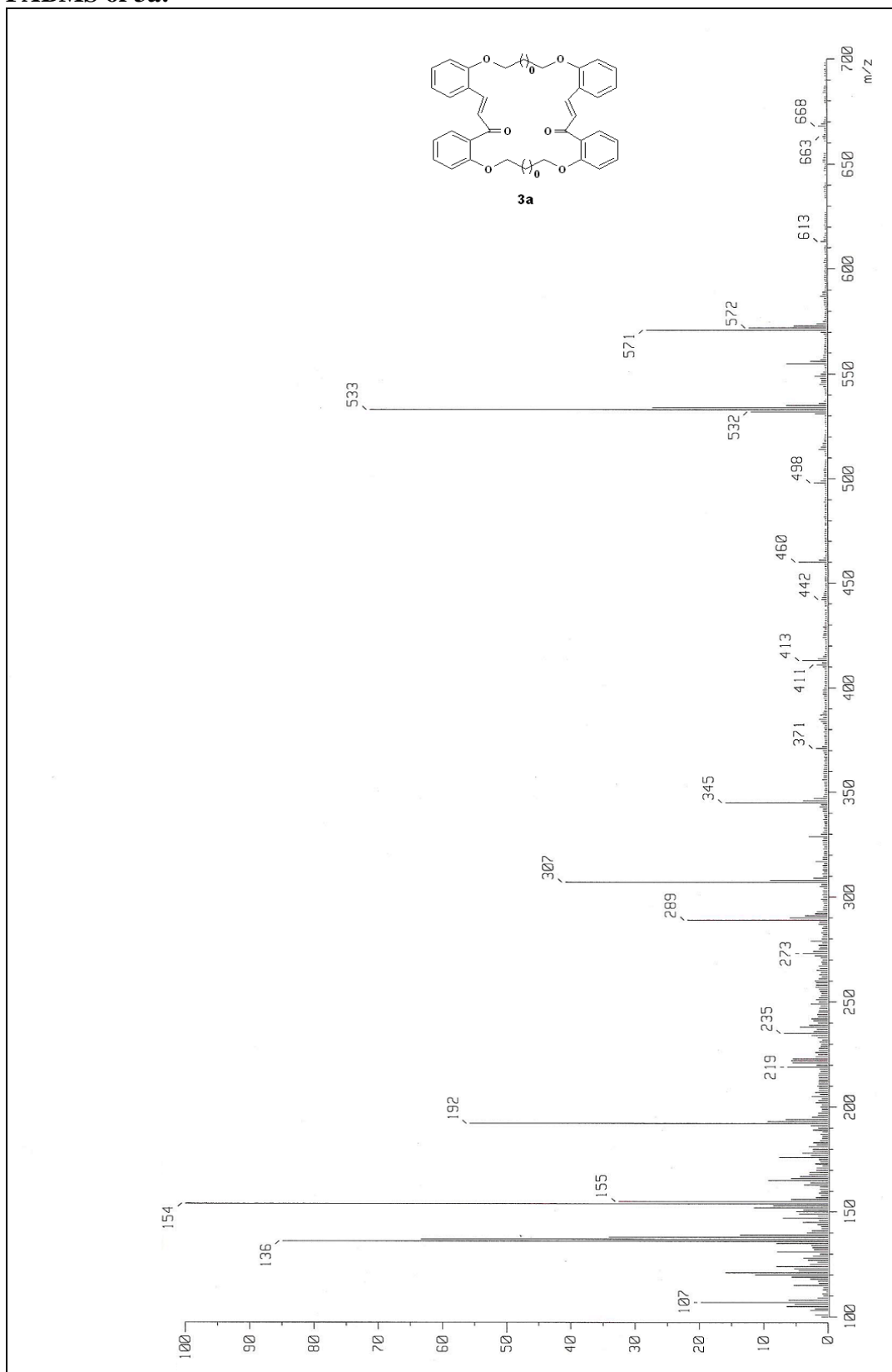
1. ^1H , ^{13}C NMR and Mass Spectra ^1H NMR Spectrum of 3a:

¹H NMR Spectrum of 3a (Expanded Version):

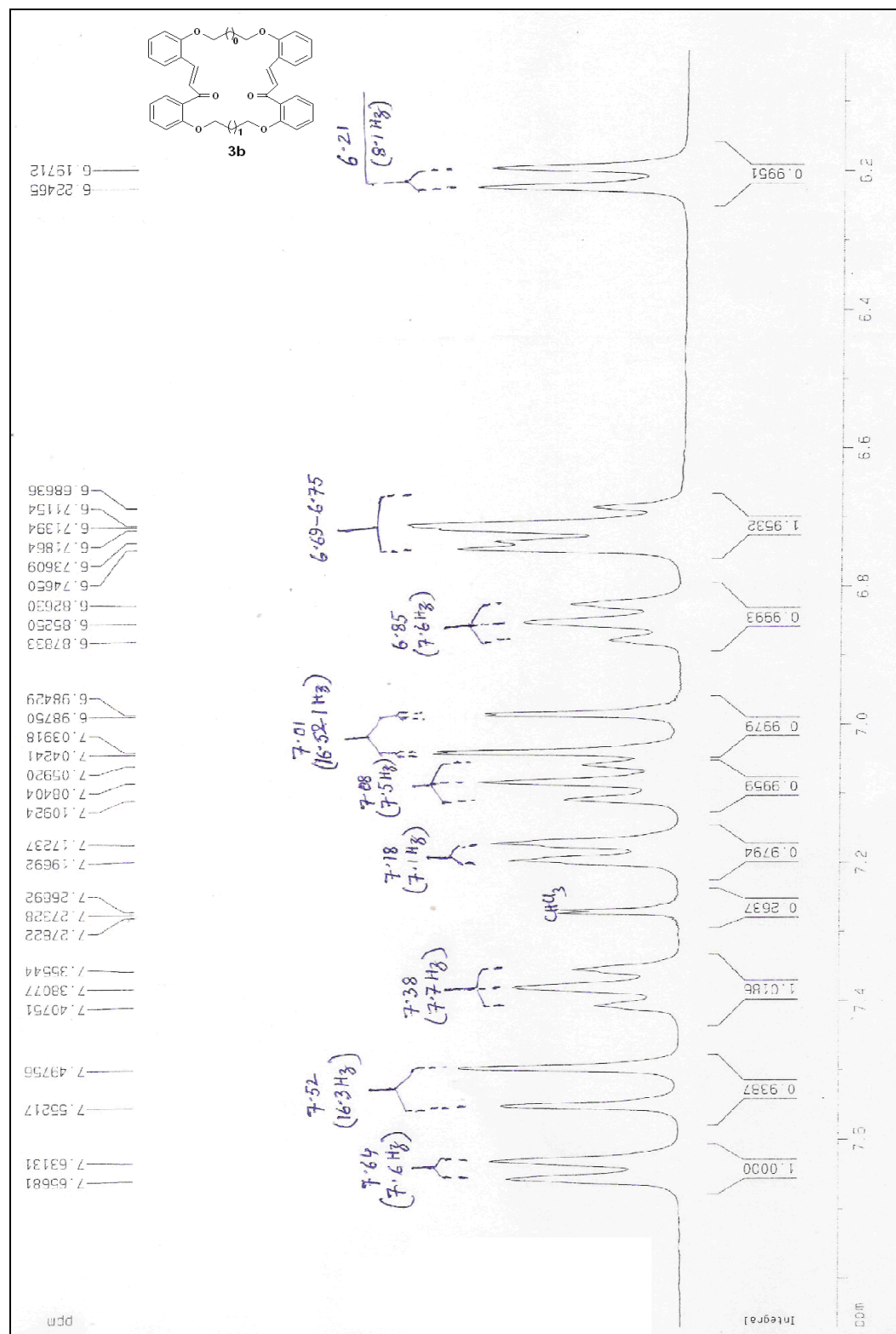


^{13}C NMR Spectrum of 3a:

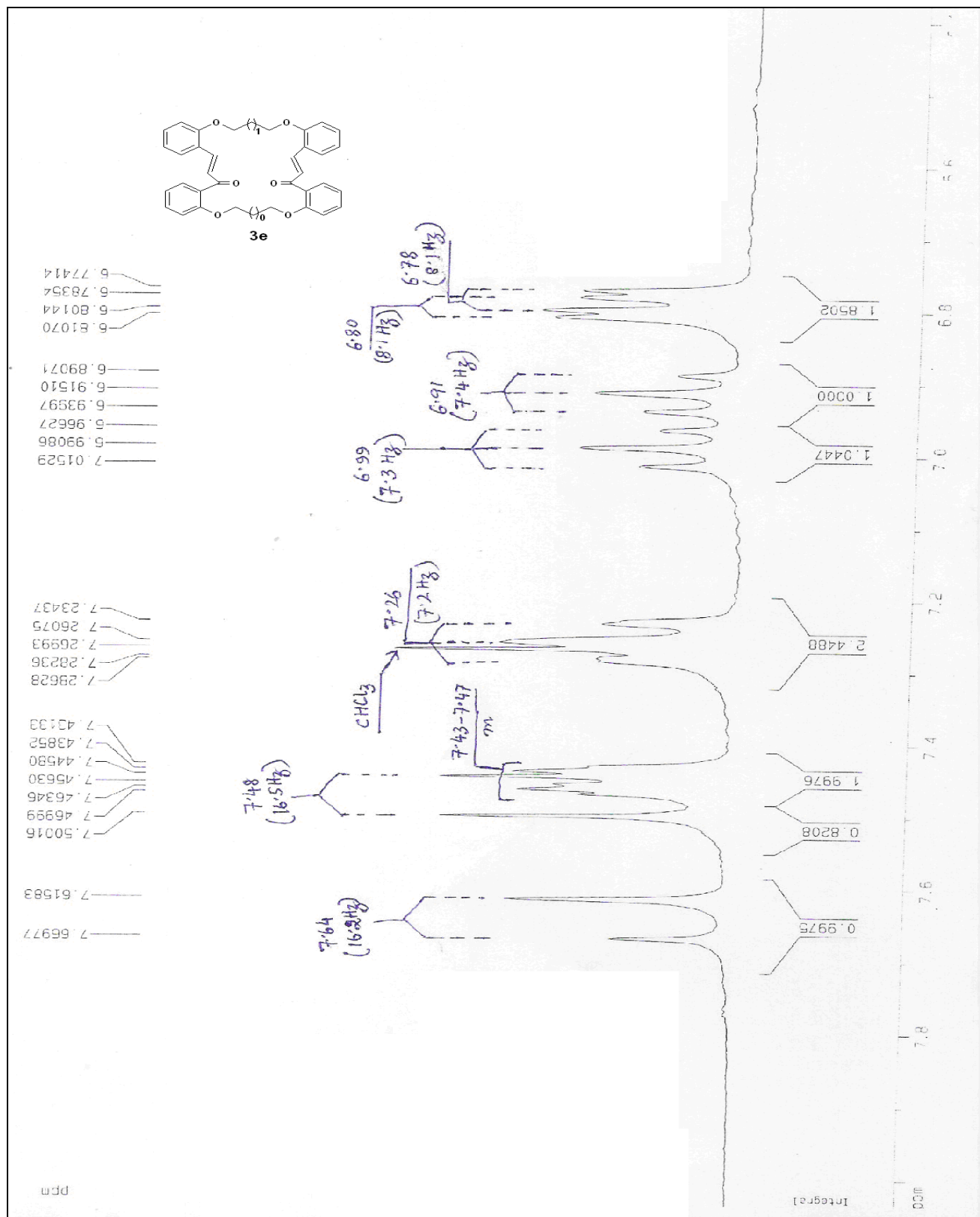
FABMS of 3a:



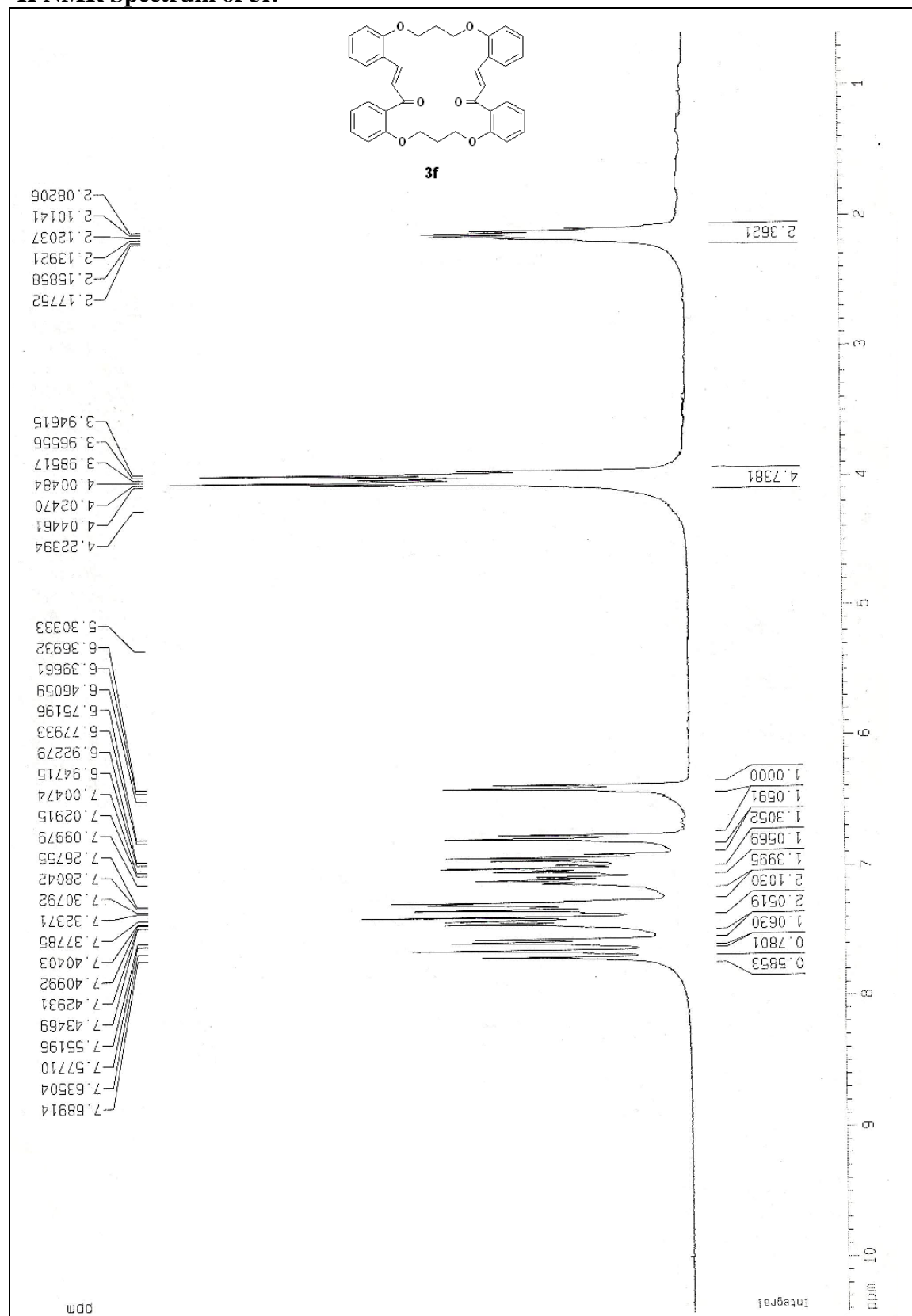
¹H NMR Spectrum of 3b (Expanded Version):

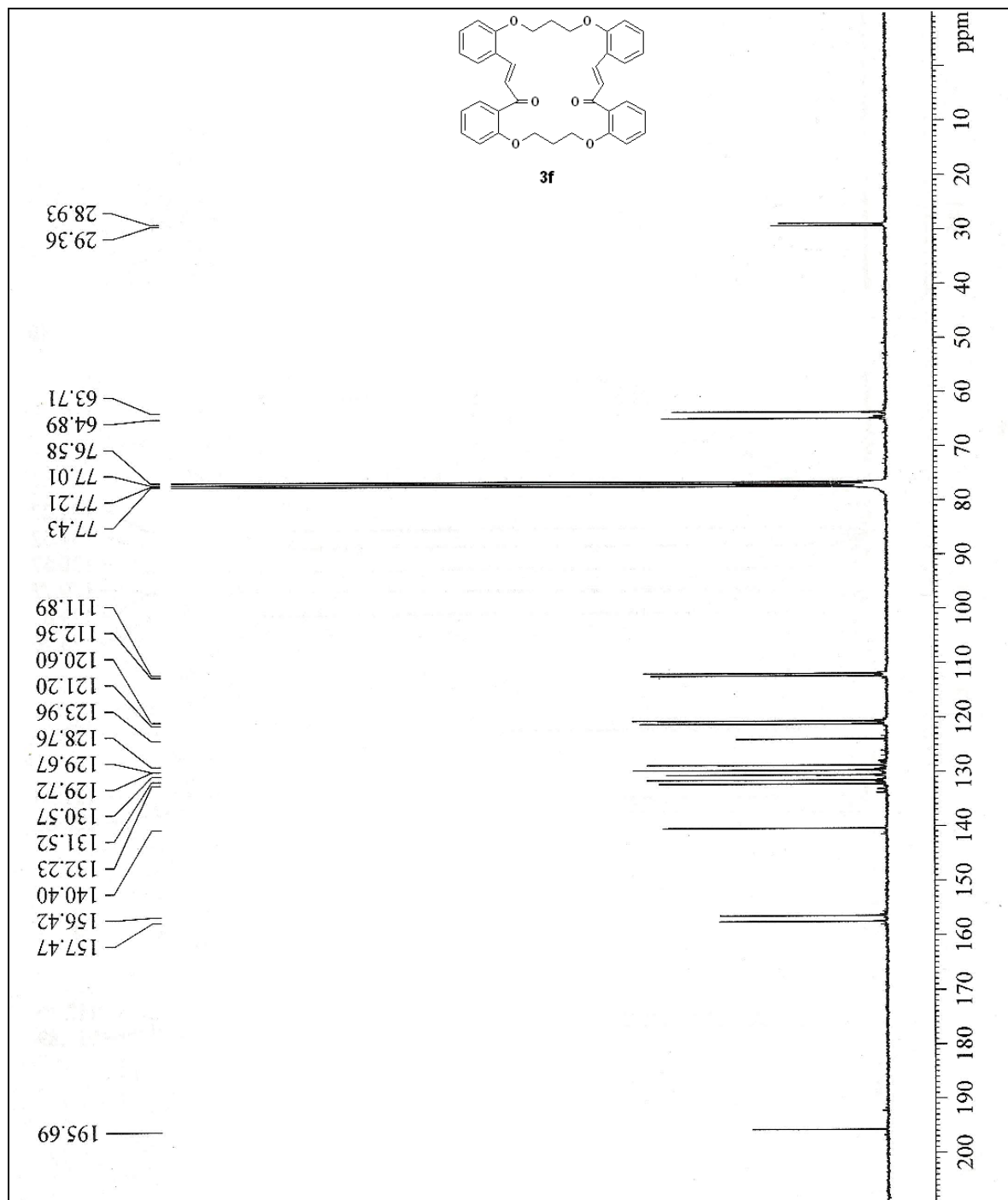


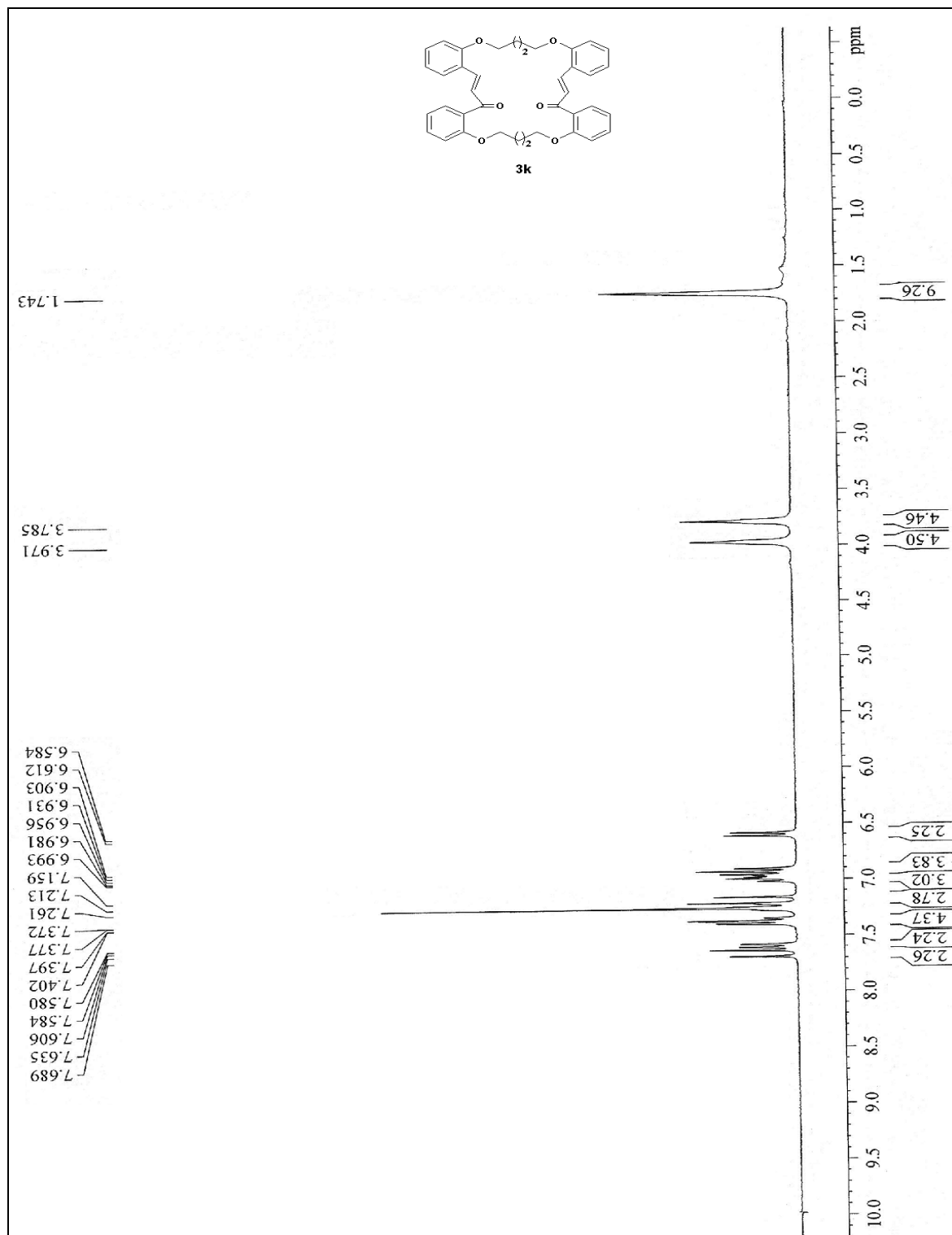
¹H NMR Spectrum of 3e (Expanded Version):

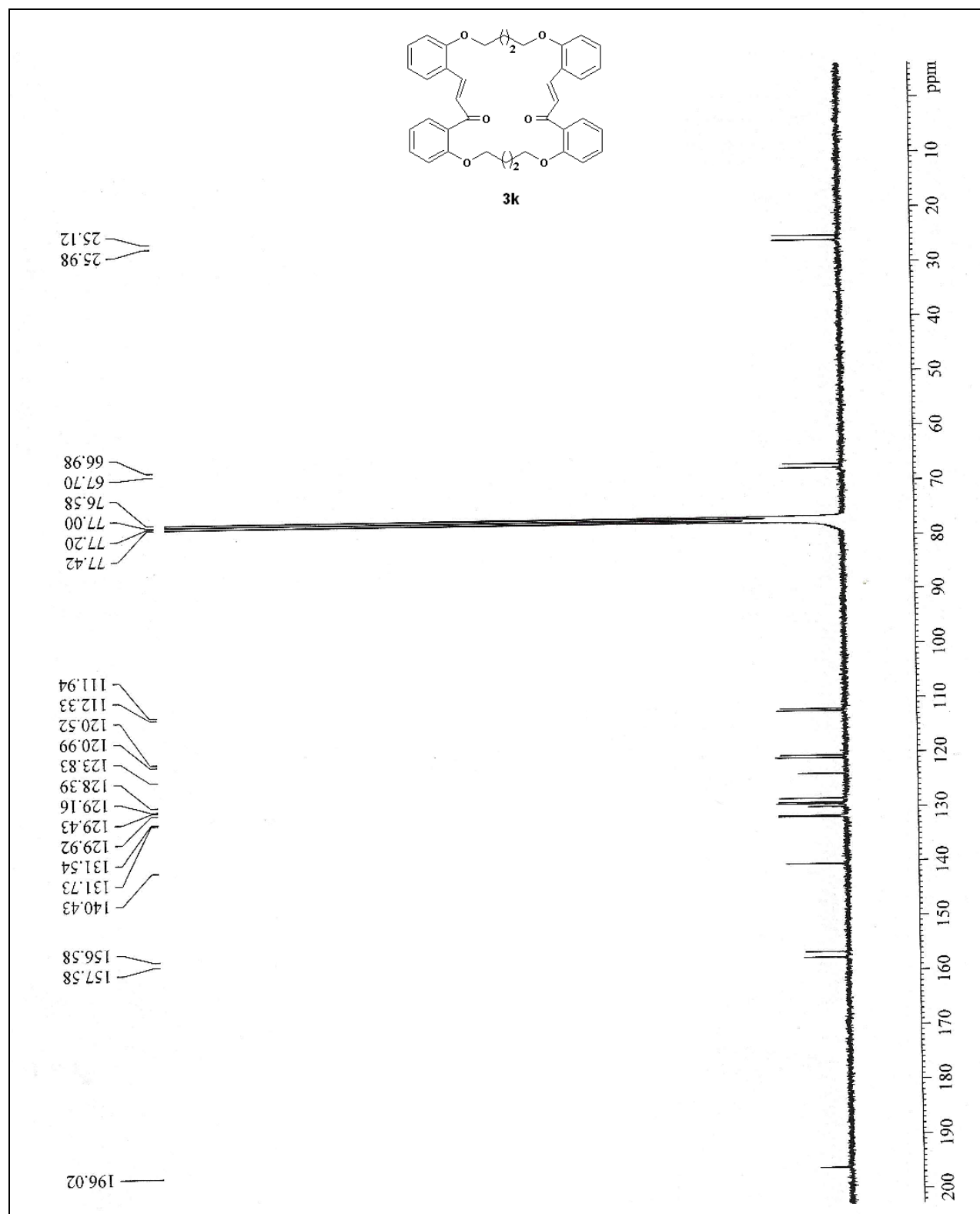


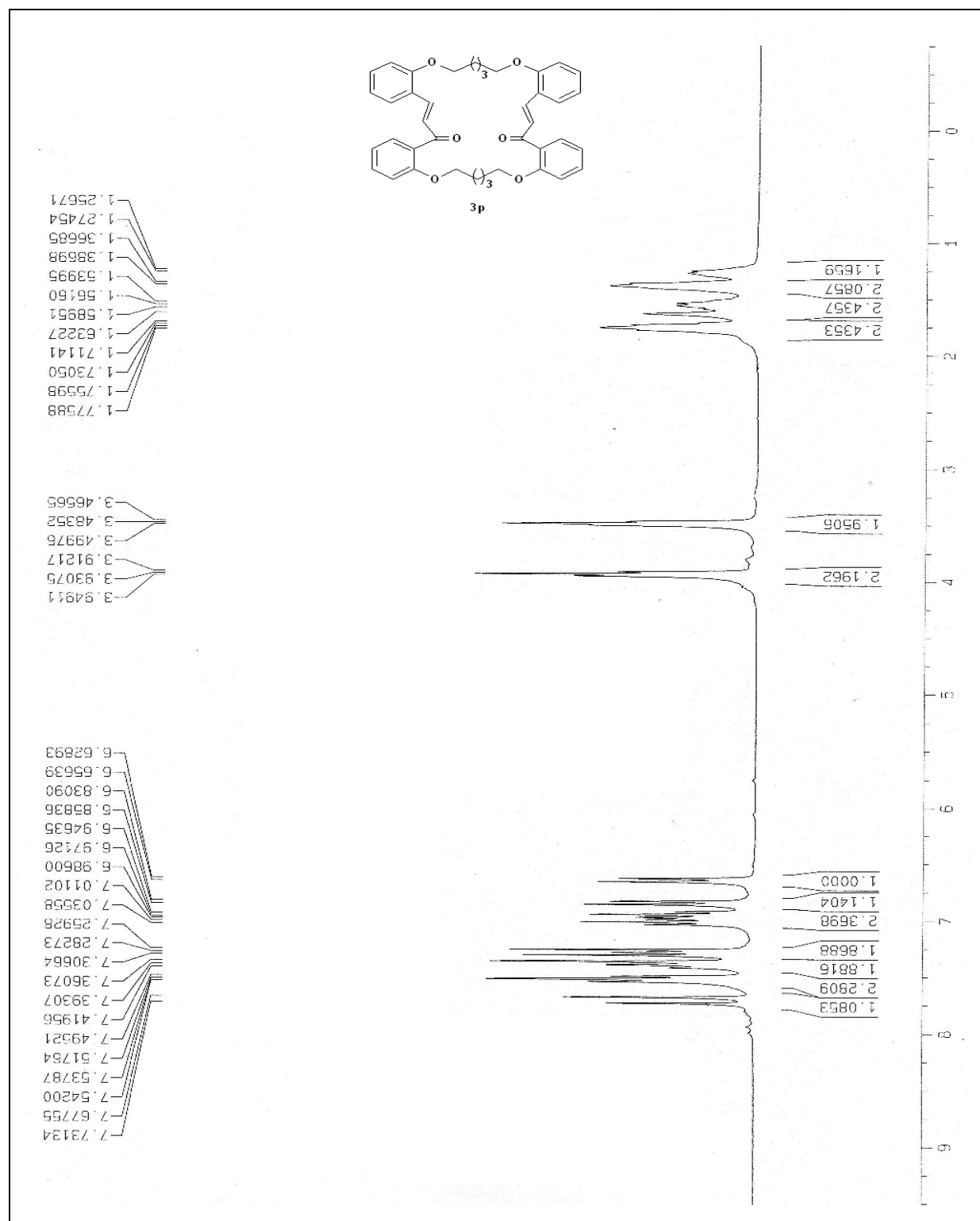
¹H NMR Spectrum of 3f:

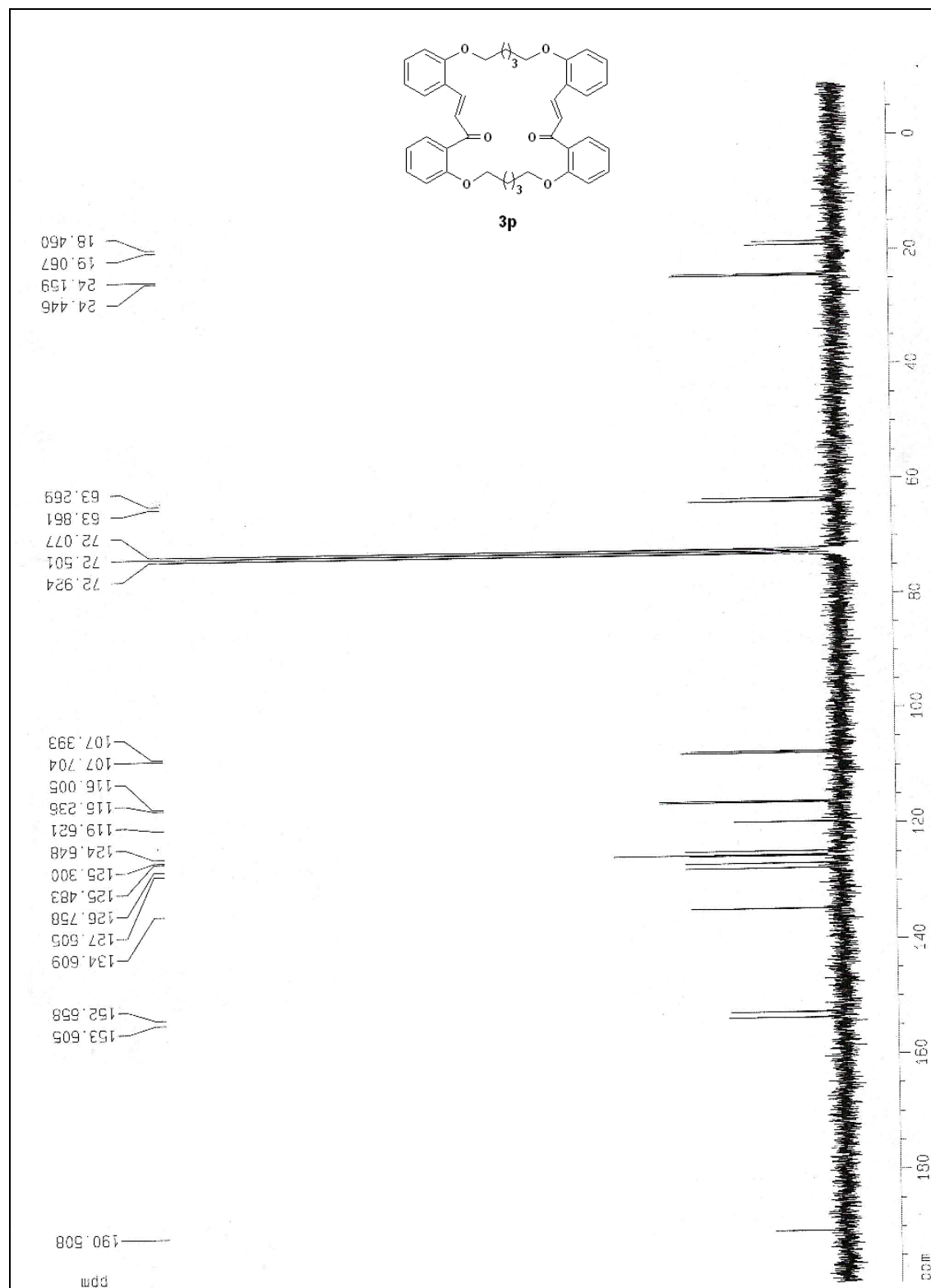


¹³C NMR Spectrum of 3f:

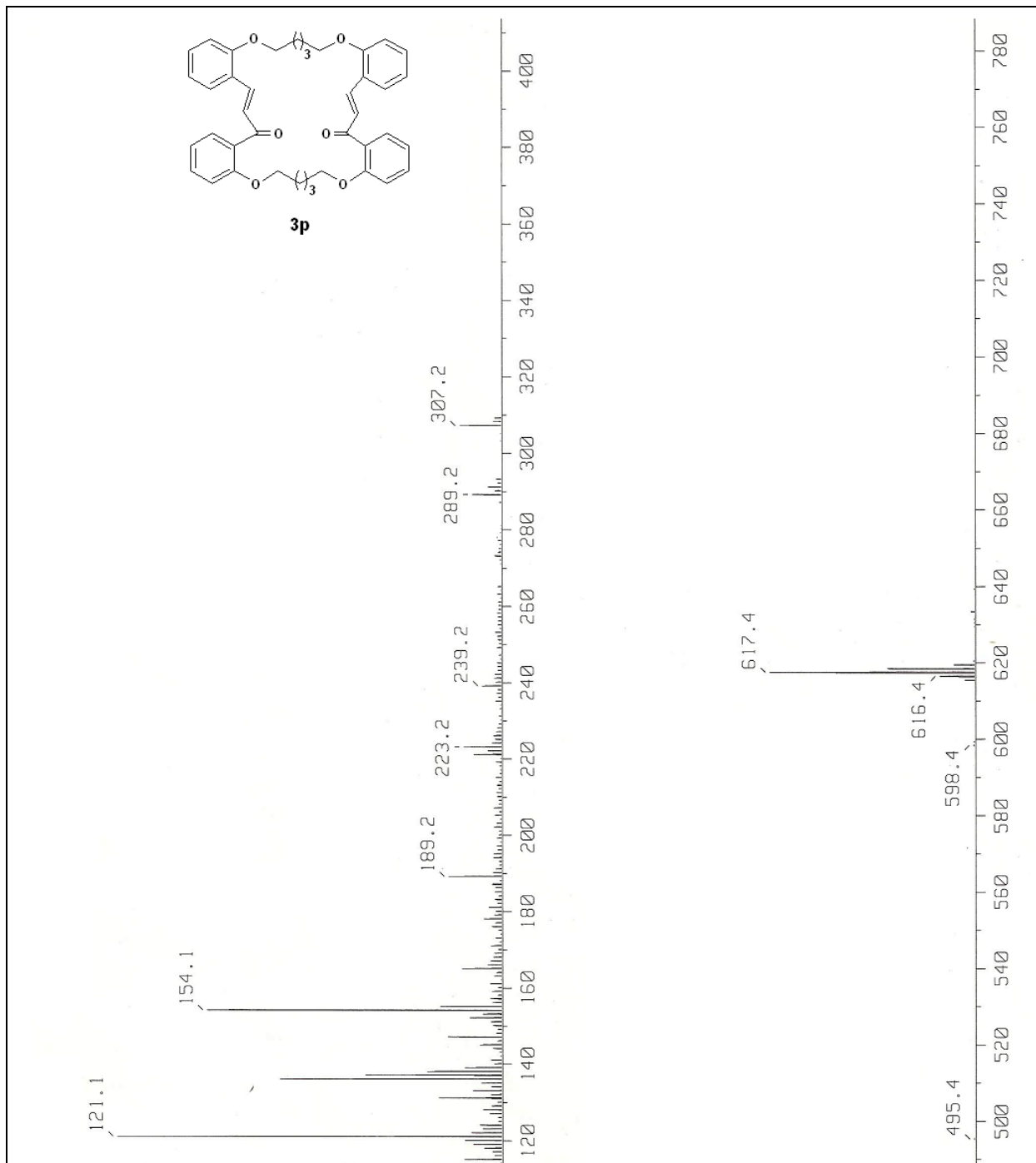
¹H NMR Spectrum of 3k:

¹³C NMR Spectrum of 3k:

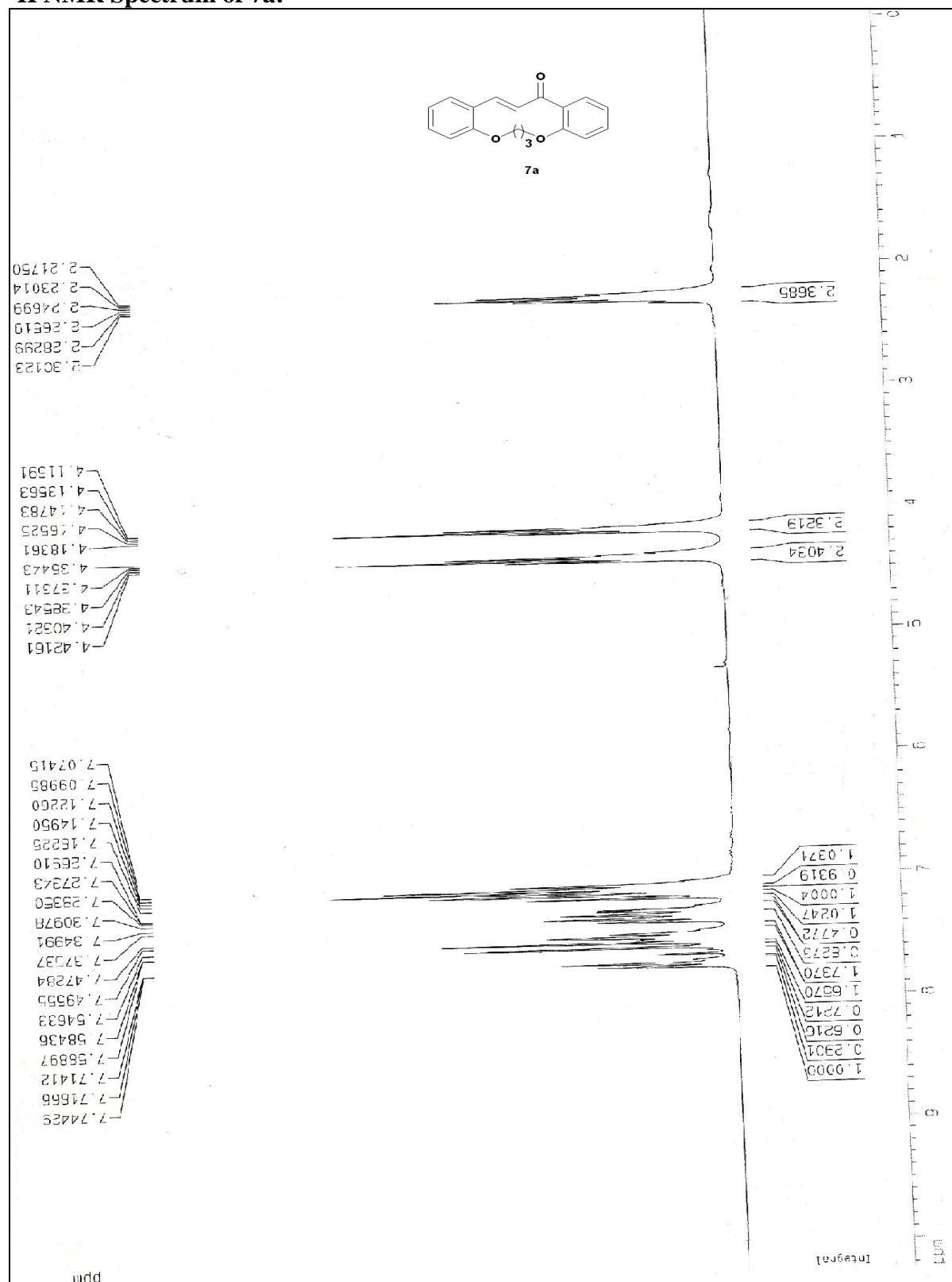
¹H NMR Spectrum of 3p:

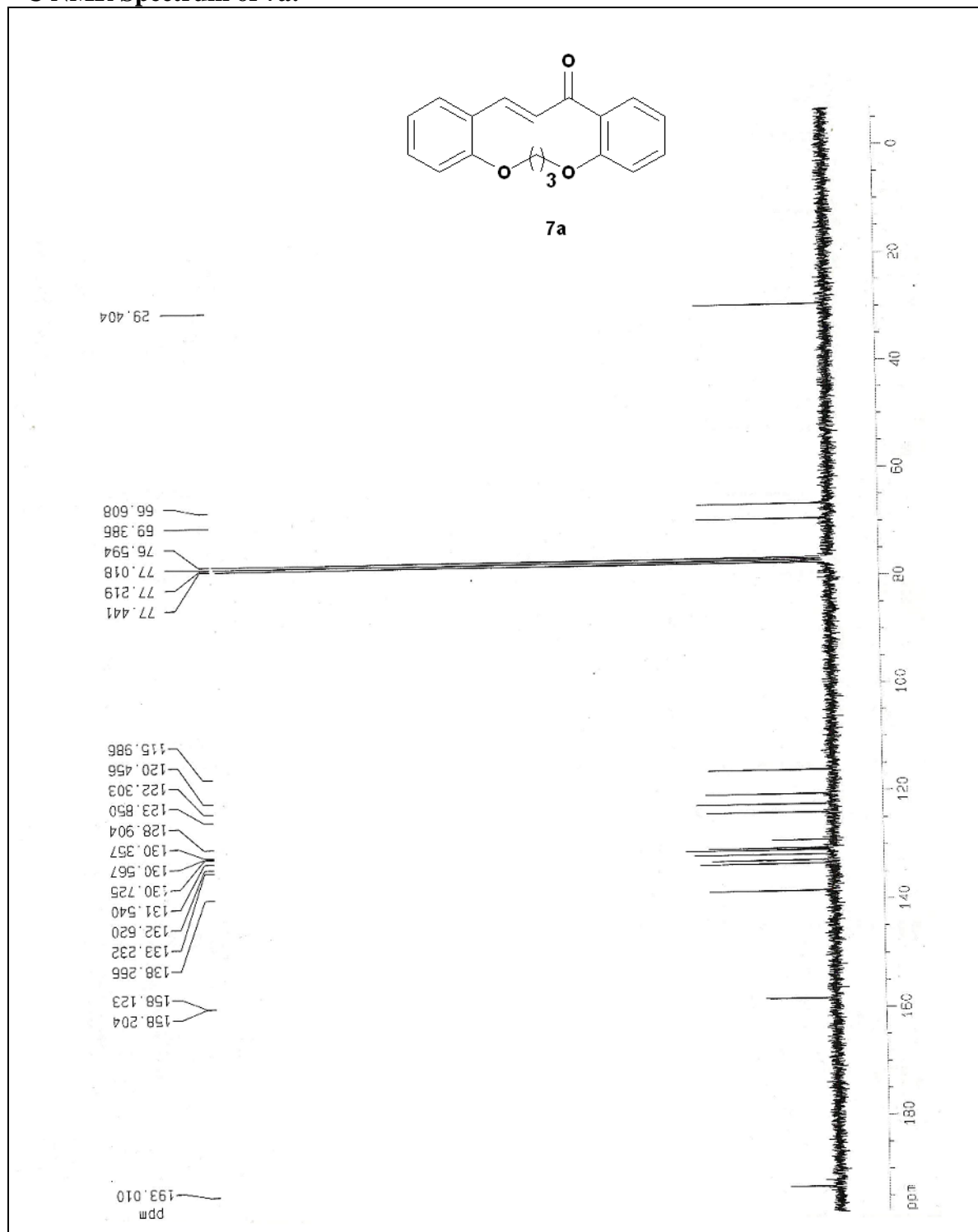
¹³C NMR Spectrum of 3p:

FABMS of 3p:

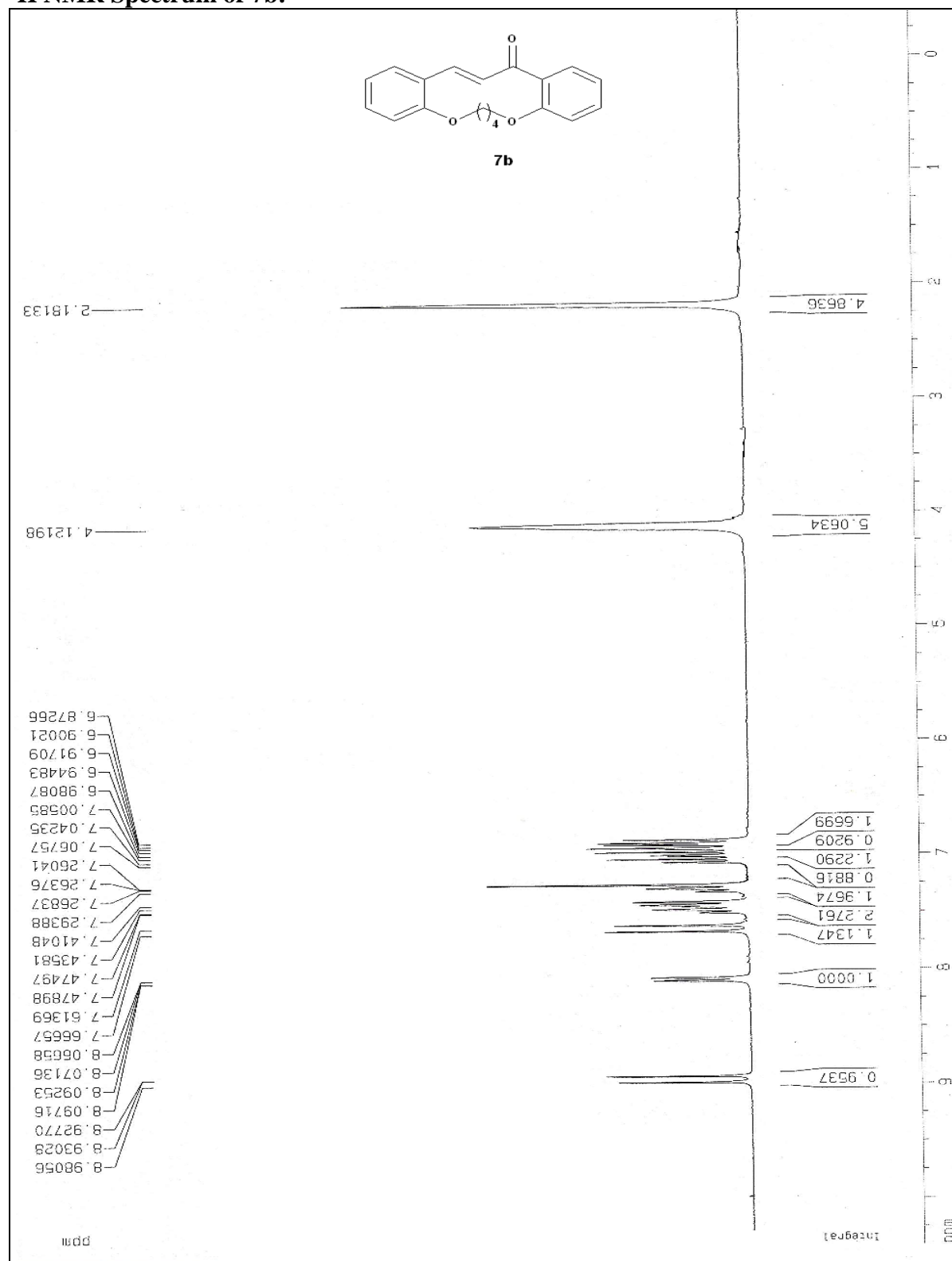


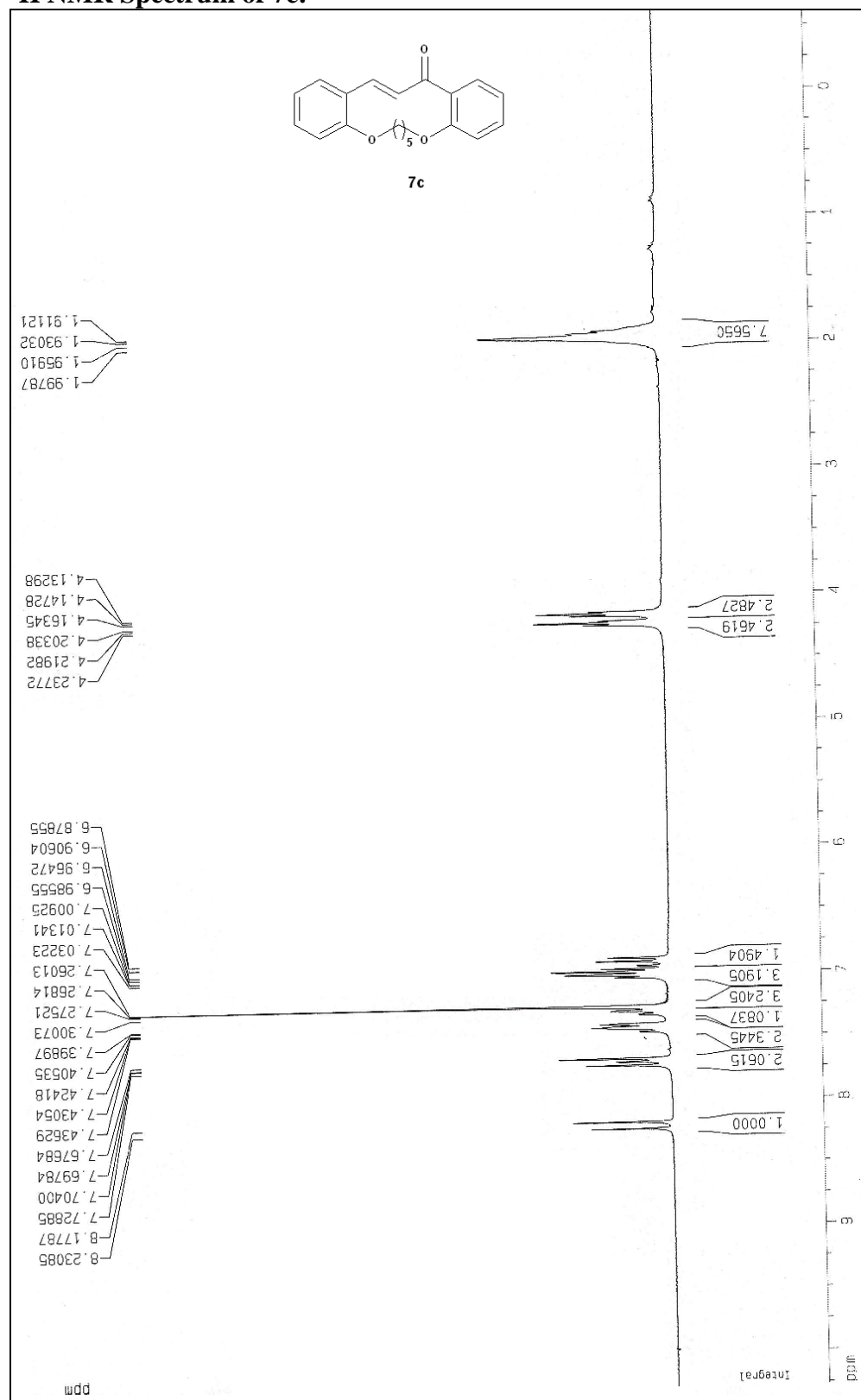
¹H NMR Spectrum of 7a:



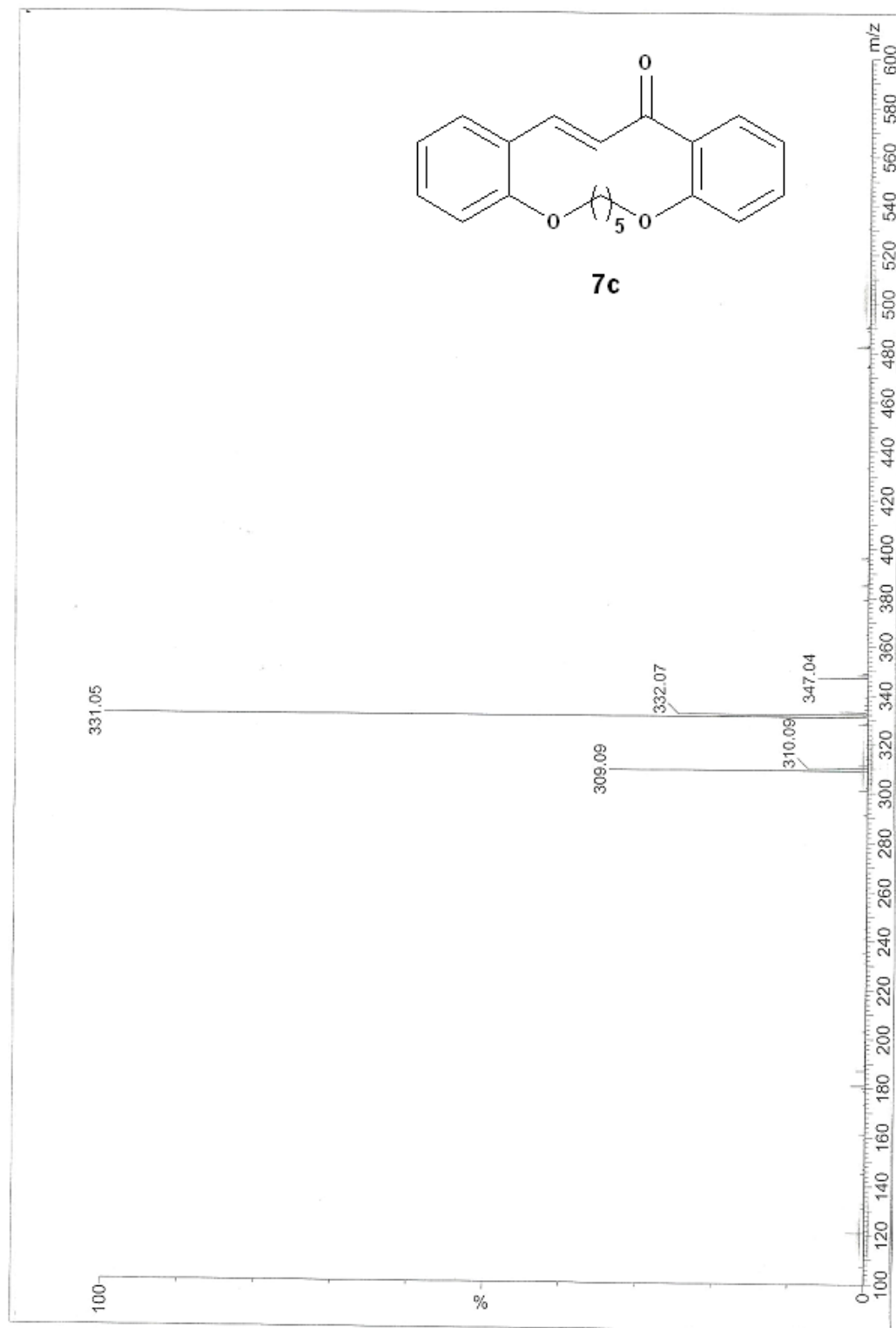
¹³C NMR Spectrum of 7a:

¹H NMR Spectrum of 7b:

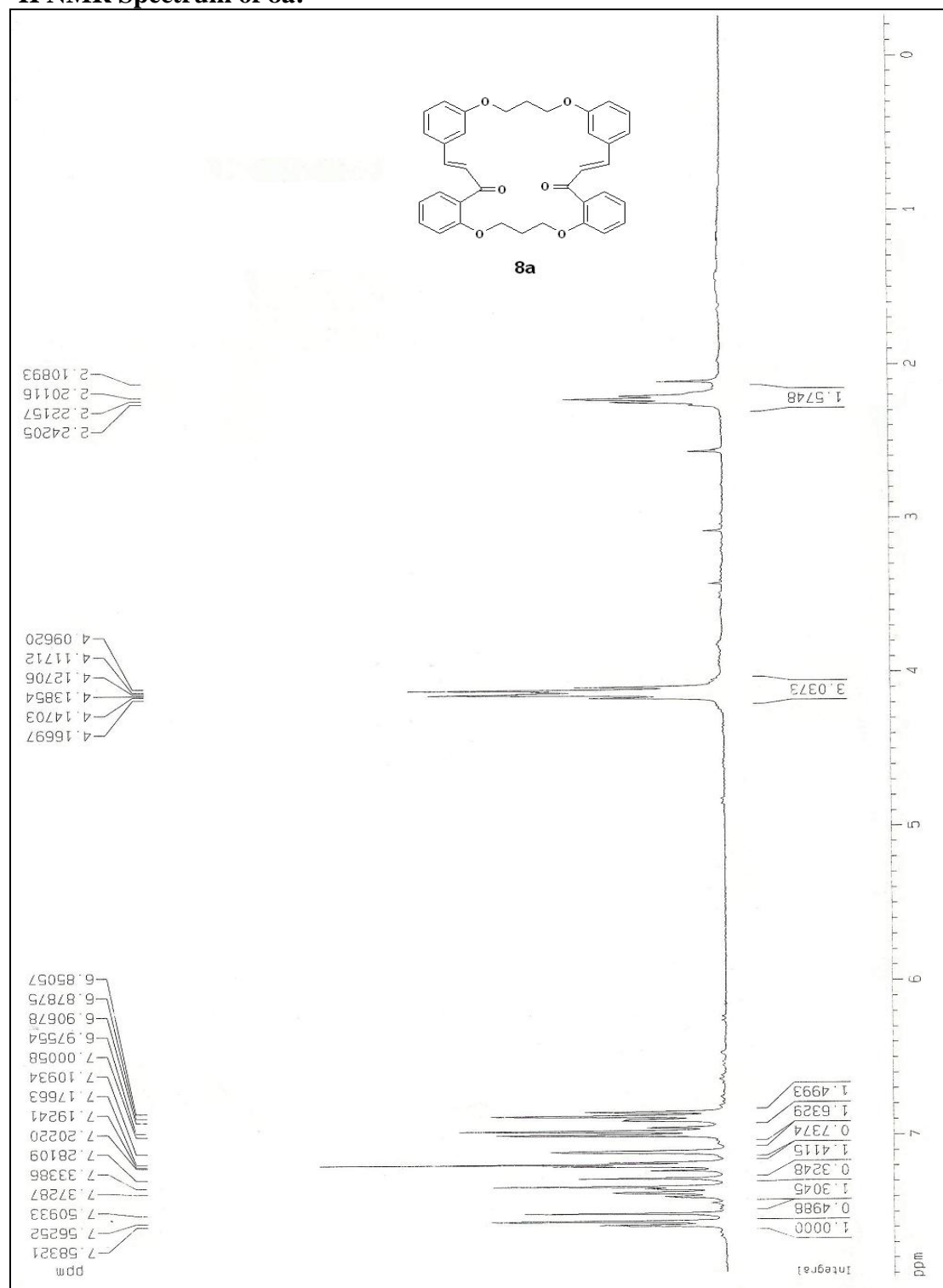


¹H NMR Spectrum of 7c:

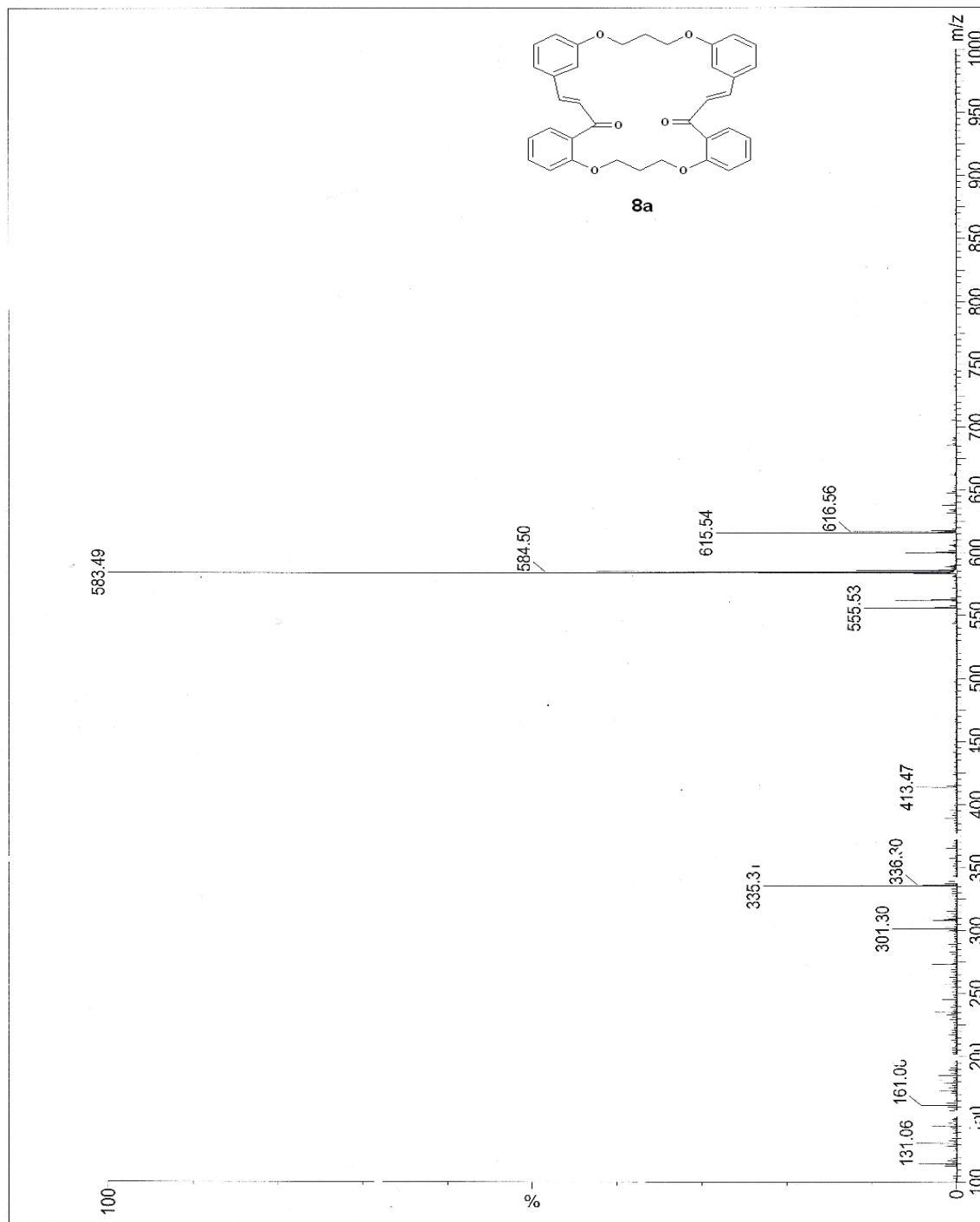
TOF MS ES+ of 7c:



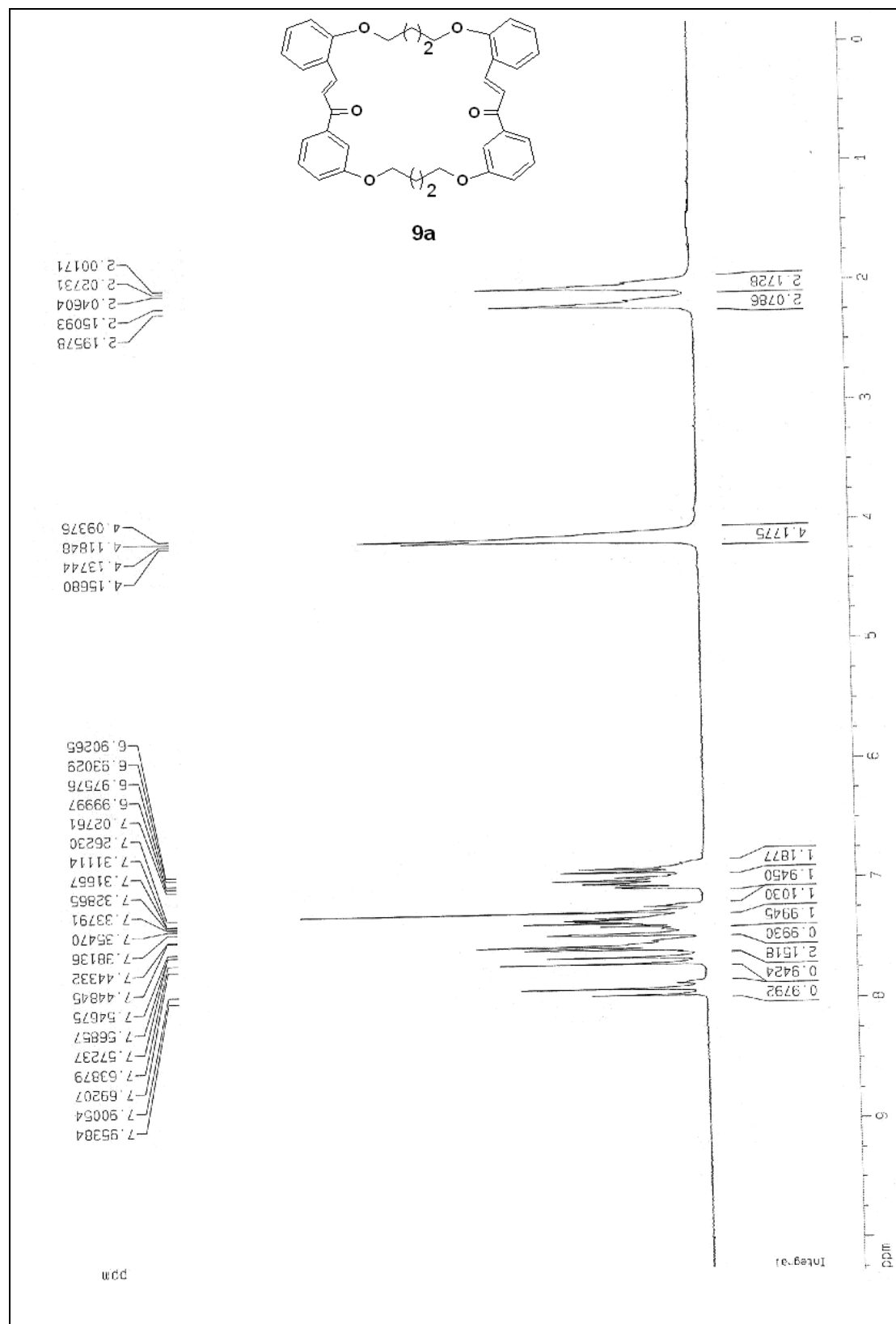
¹H NMR Spectrum of 8a:



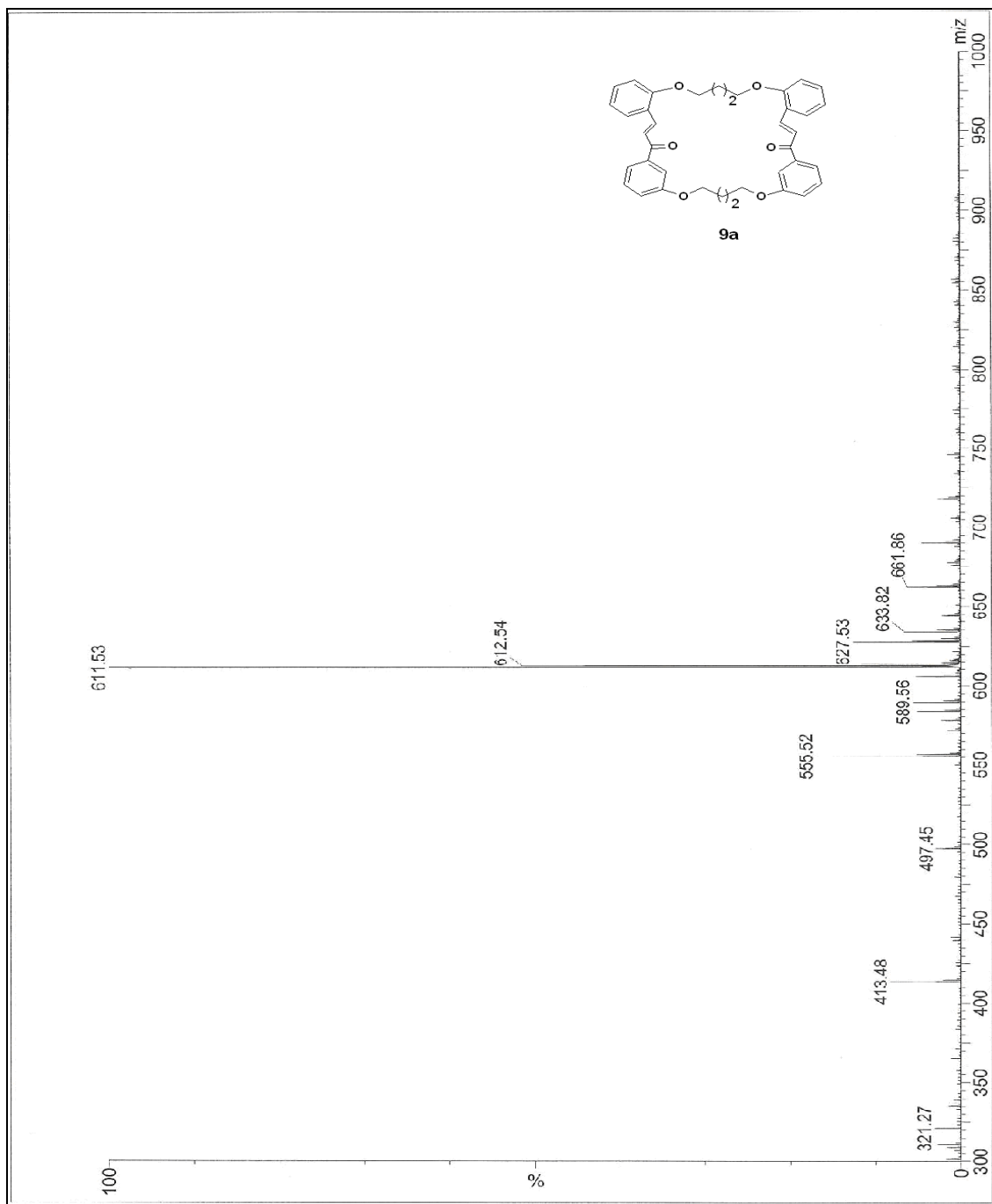
TOF MS ES+ of 8a:



¹H NMR Spectrum of 9a:

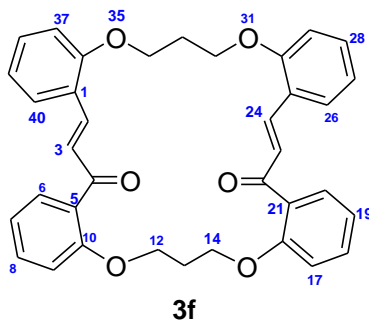


TOF MS ES+ of 9a:

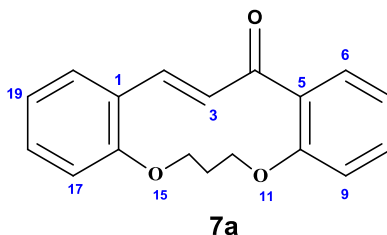


2. Nomenclature and numbering of positions of the macrocycles (shown for three representative members)

(2*E*,23*E*)-11,15,31,35-Tetraoxapentacyclo[34.4.0.0^{5,10}.0^{16,21}.0^{25,30}]tetraconta-1(40),2,5,7,9,16,18,20,23,25,27,29,36,38-tetradecaene-4,22-dione (3f):



(2*E*)-11,15-Dioxatricyclo[14.4.0.0^{5,10}]eicosa-1(20),2,5,7,9,16,18-heptaene-4-one(7a):



(2*E*,23*E*)-11,15,30,34-Tetraoxapentacyclo- [33.3.1.0^{5,10}.0^{16,21}.1^{25,29}]tetraconta-1(39),2,5,7,9,16,18,20,23,25,27,29(40),35,37-tetradecaene-4,22-dione (8a):

