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Supporting Information

Formation of Discrete, Functional Assemblies and Informational Polymers Through the Hydrogen Bonding Preferences of Calixarene Aryl and Sulfonyl Tetraureas

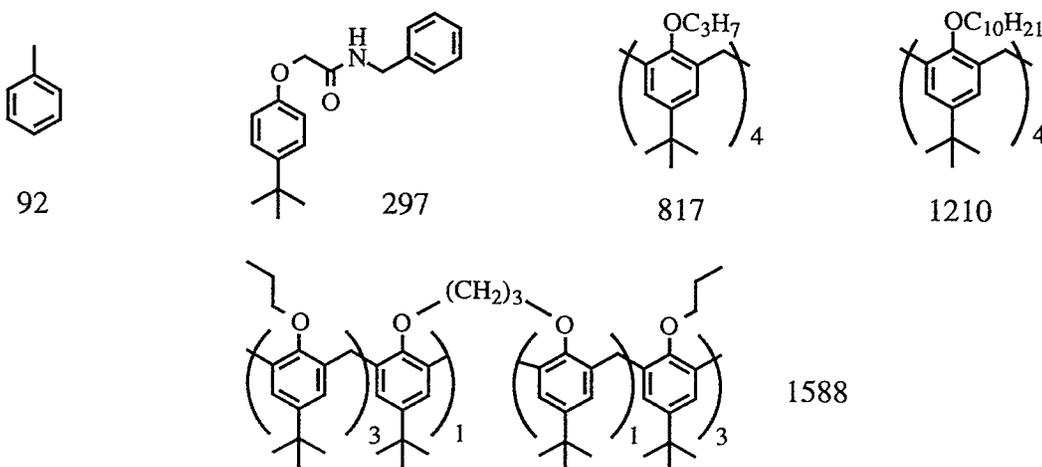
Ronald K. Castellano and Julius Rebek, Jr. *

GPC Standards. All polystyrene standards were purchased from Aldrich Chemical Co. with the exception of MW 5970 and 9100 which were purchased from TosoHaas. All of the standards used are shown below.

- 8 polystyrene standards with MW < 30,000

- | | | | |
|---------|----------|----------|----------|
| • 760 | • 2,430 | • 3,700 | • 5,970 |
| • 9,100 | • 13,700 | • 18,700 | • 29,300 |

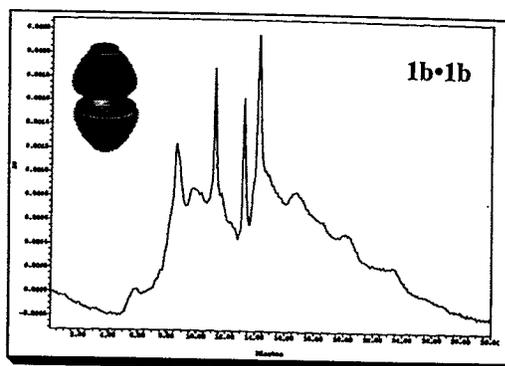
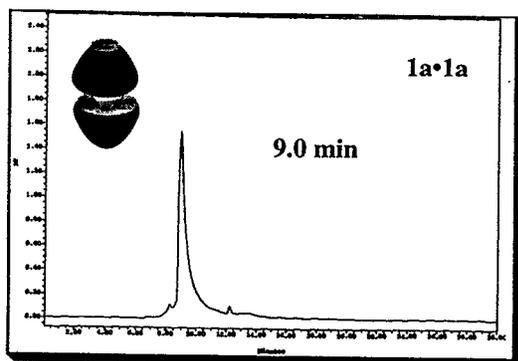
- 5 random standards



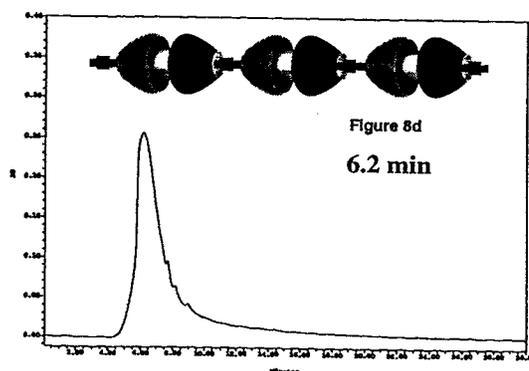
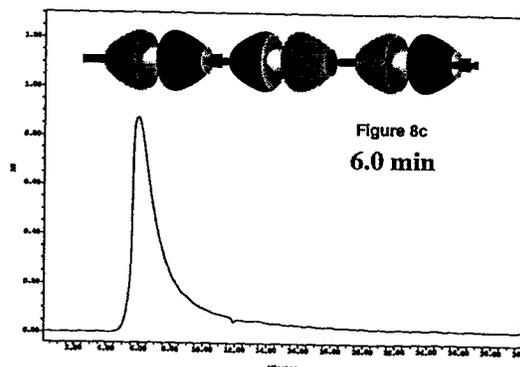
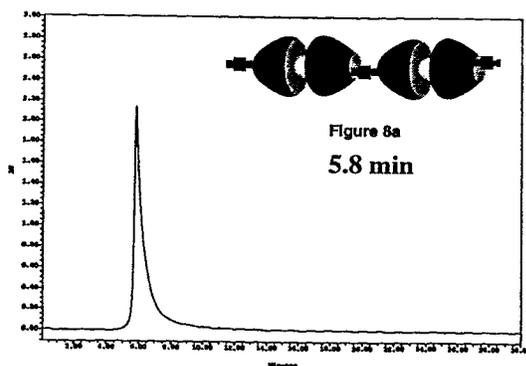
The amide (MW 297) was prepared from *p*-tert-butylphenol and benzylamine through known procedures. The calixarene derivatives are known and were easily prepared from the parent derivative.

Additional GPC Data

A. Homodimers 1a•1a and 1b•1b (Figures 1 and 2)

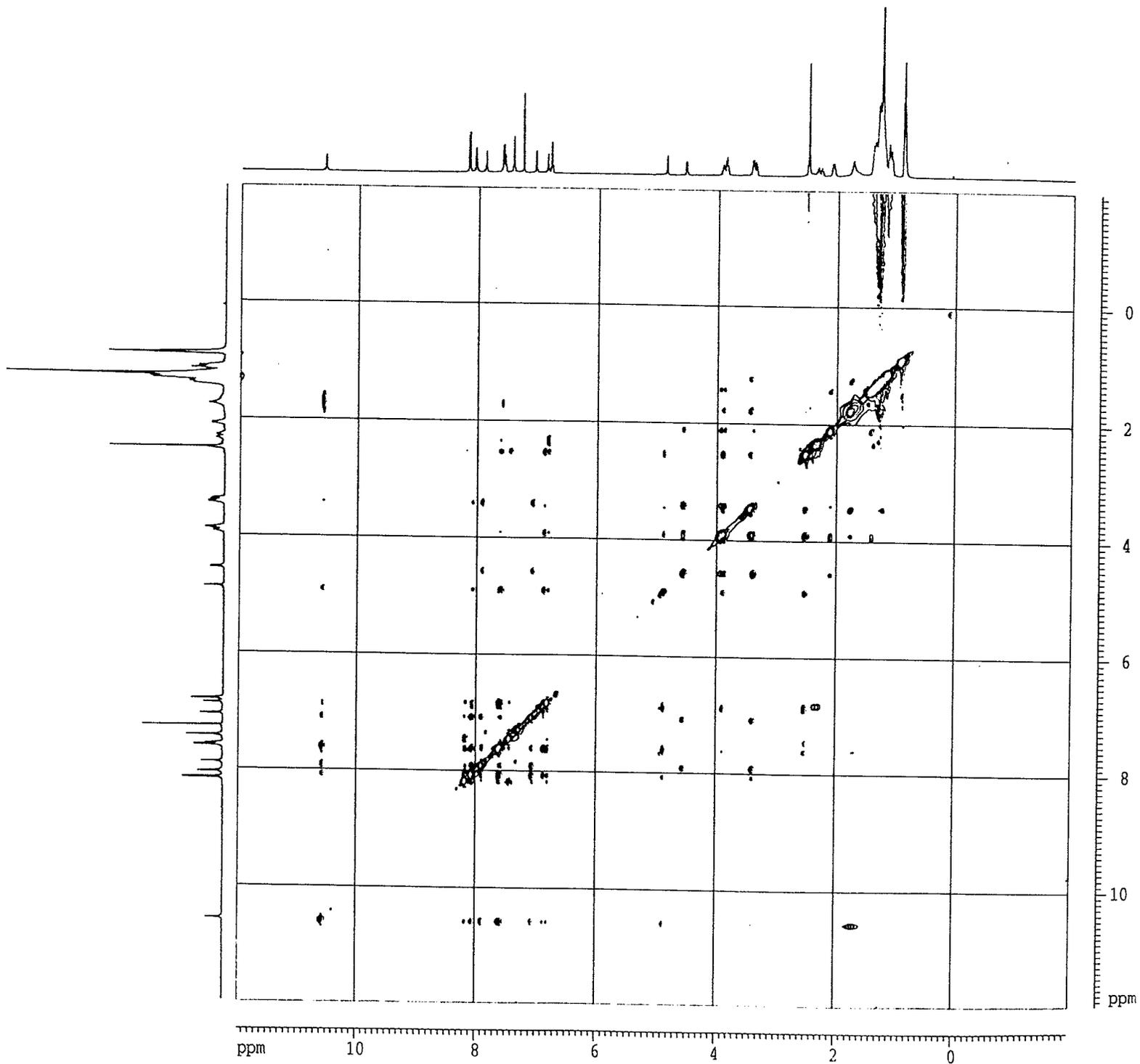


B. Polymers* (Figure 8)

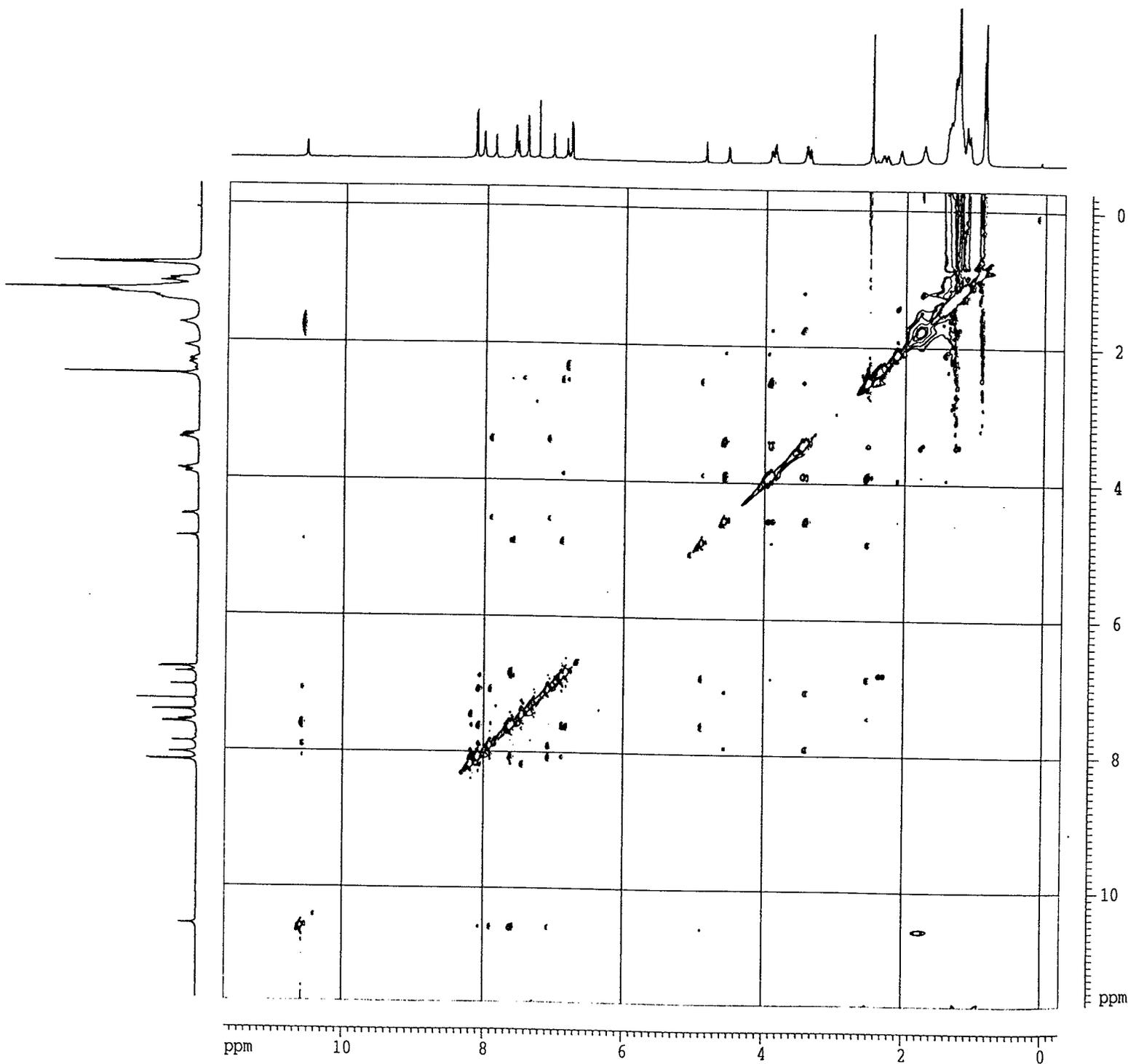


*The polymer based on **3b** (Figure 8b) could not be observed by GPC.

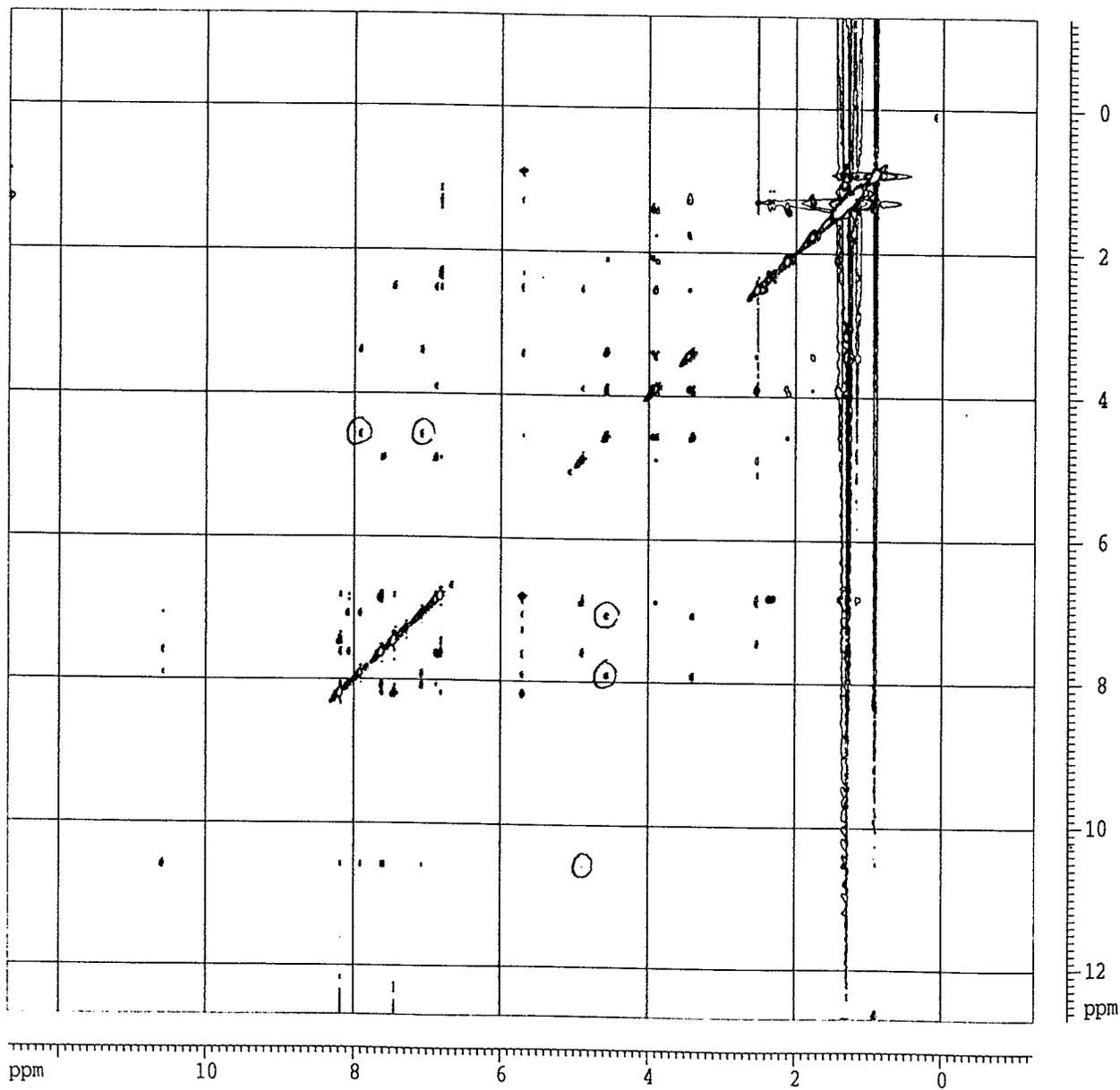
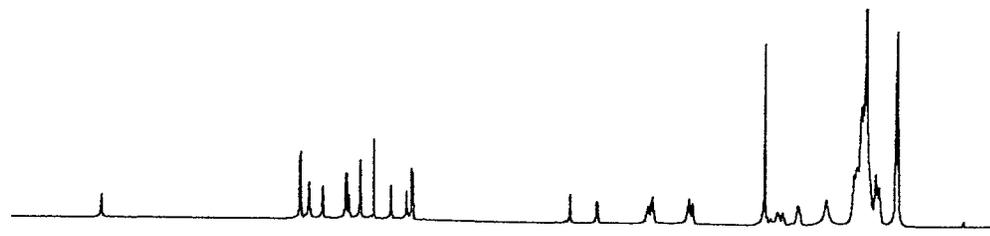
NOESY Data for \bar{z} (Mixing time (τ_m) = 600 ms)



NOESY Data for 2⁻ (Mixing time (τ_m) = 400 ms)



ROESY Data for \bar{z} (Mixing time (τ_m) = 400 ms)



(exchange NOE's circled)

Important NOE Connectivities and Chemical Shift Data for 2 Based On NOESY Spectra

