

Supplementary Information

Synthesis, spectral, antibacterial and docking analyses of (3,4-bis((E)-arylidene)amino)phenyl)(phenyl)methanones

I Muthuvel^{a,b}, S Manikanadan^a, G Thirunarayanan^{a,*}, V Usha^c & V Sathyendiran^d

^a Department of Chemistry, Annamalai University, Annamalainagar 608 002, India

^b Department of Chemistry, M.R. Government Arts College, Mannargudi 614 001, India

^c Department of Chemistry, University College of Engineering Panruti, Panruti 607 106, India

^d Department of Chemistry, Sourashtra College, Madurai 625 004, India

*E-mail: drgtnarayanan@gmail.com, thirunarayanan.g.10313@annamalaiuniversity.ac.in

S. No.	Contents	Pg. No.
1	Fig. S1-S6 — ^1H -NMR spectrum of Compound Va	2-4
2	Fig. S7-S12 — ^1H -NMR spectrum Compound Vd	5-10
3	Fig. S13-S18 — IR spectrum of Compound Vd	11-16

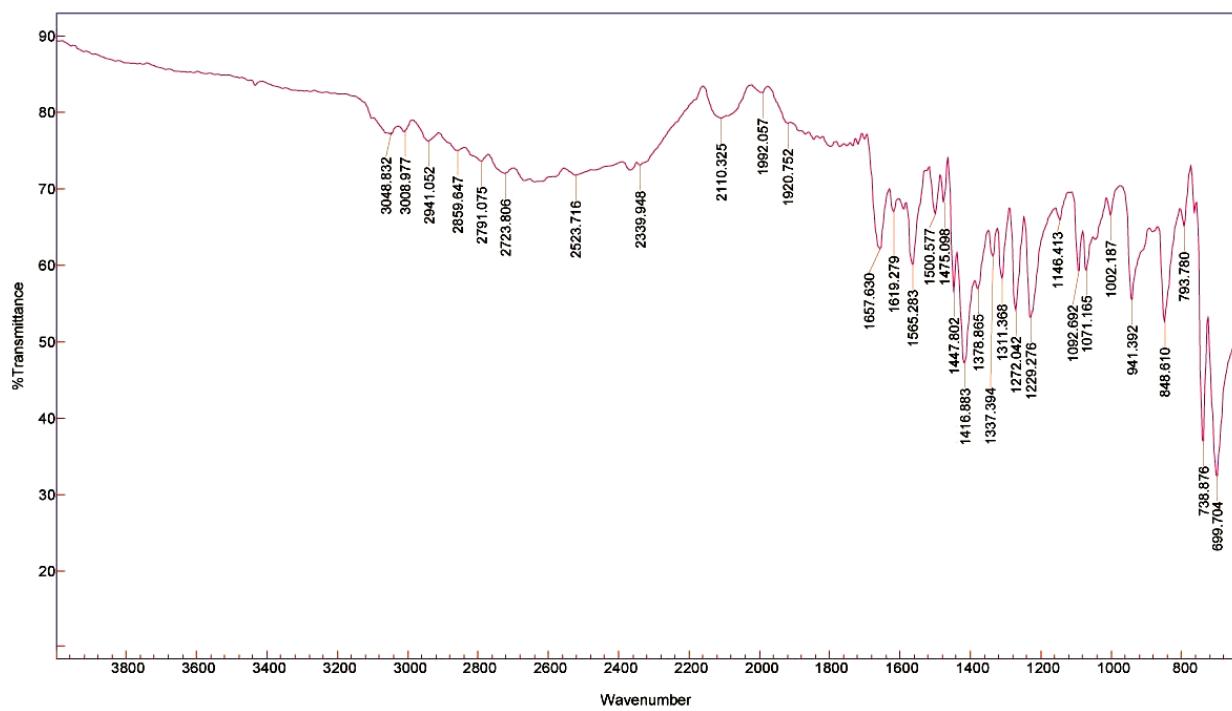


Fig. S1 — IR spectrum of (3,4-bis((E)-benzylideneamino)phenyl)(phenyl)methanone

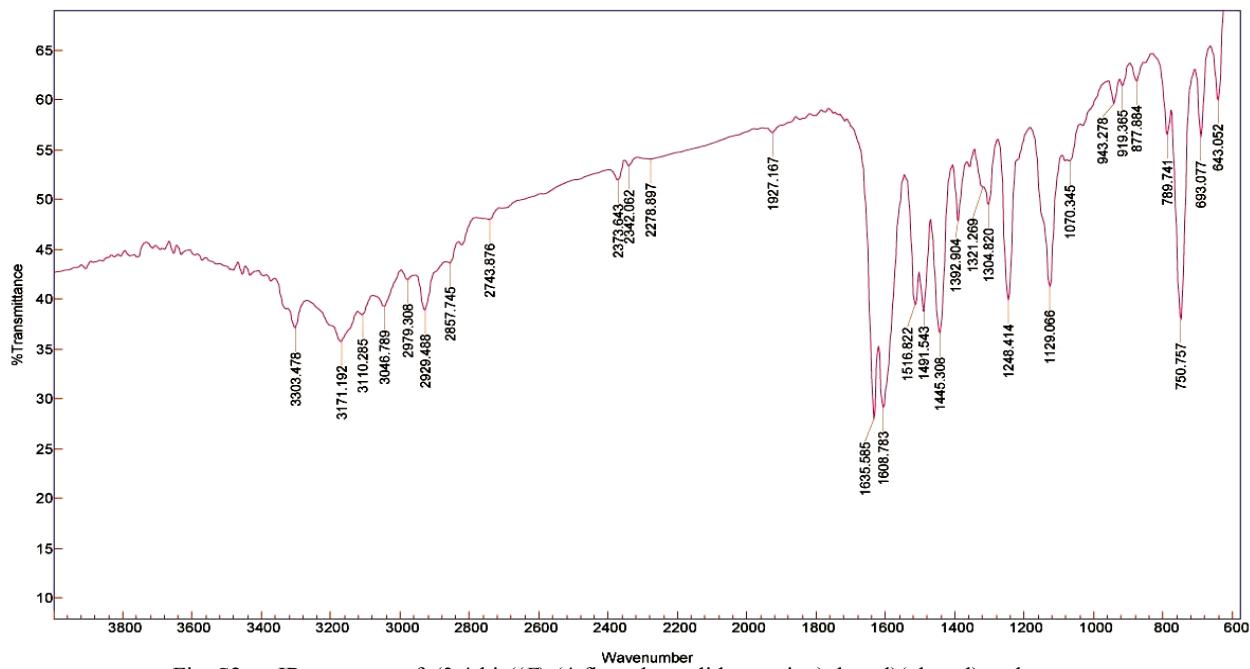


Fig. S2 — IR spectrum of (3,4-bis((E)-(4-fluorobenzylideneamino)phenyl)(phenyl)methanone

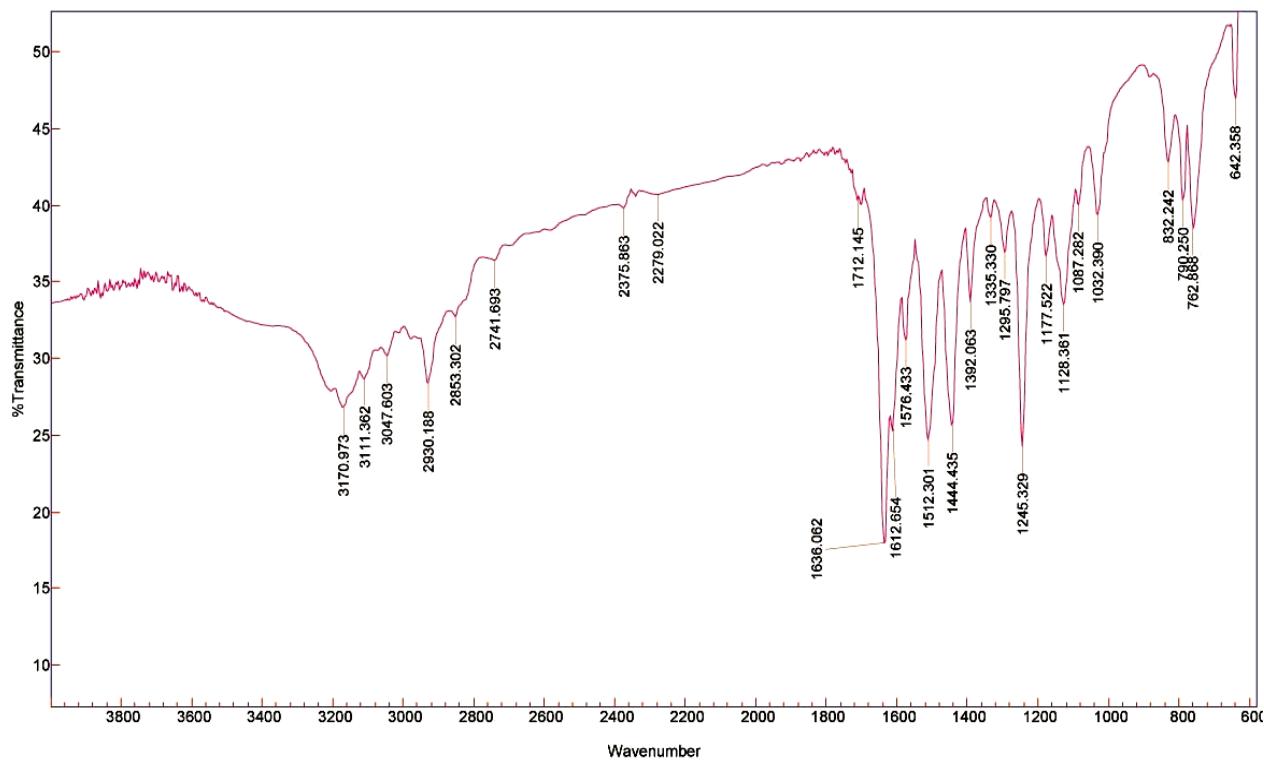


Fig. S3 — IR spectra of (3,4-bis((E)-(4-chlorobenzylideneamino)phenyl)(phenyl)methanone

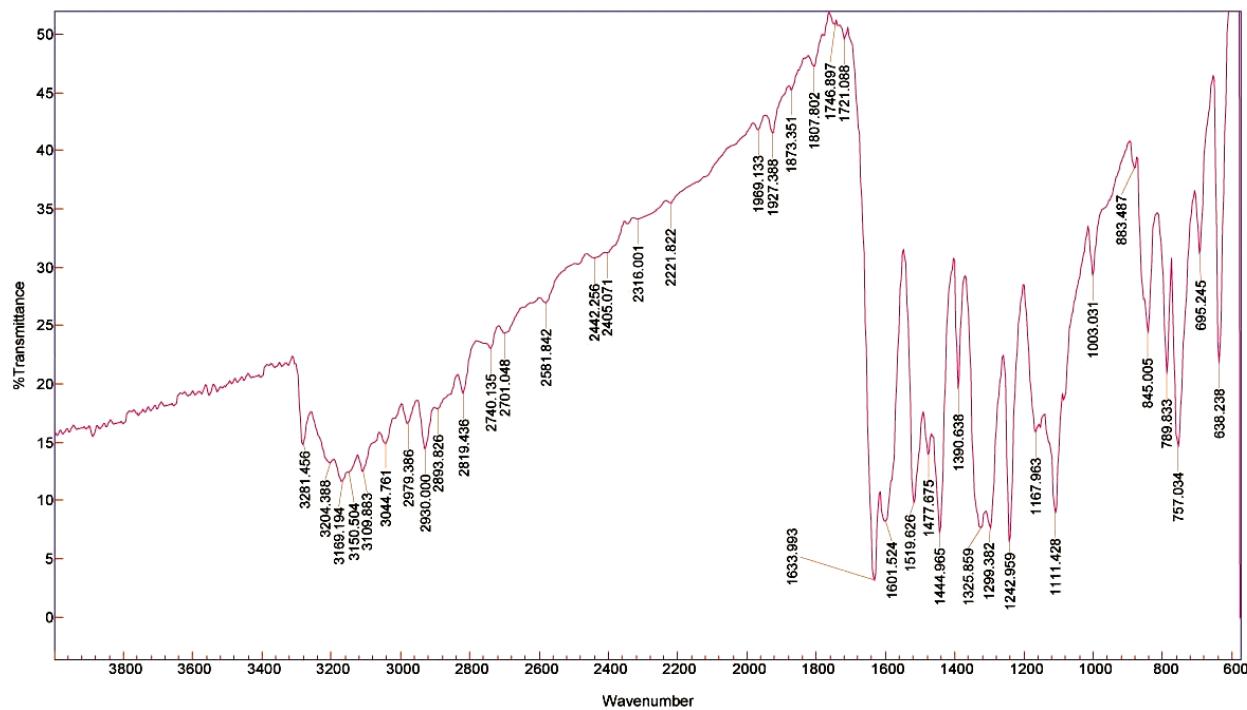


Fig. S4 — IR spectra of (3,4-bis((E)-(4-bromobenzylideneamino)phenyl)(phenyl)methanone

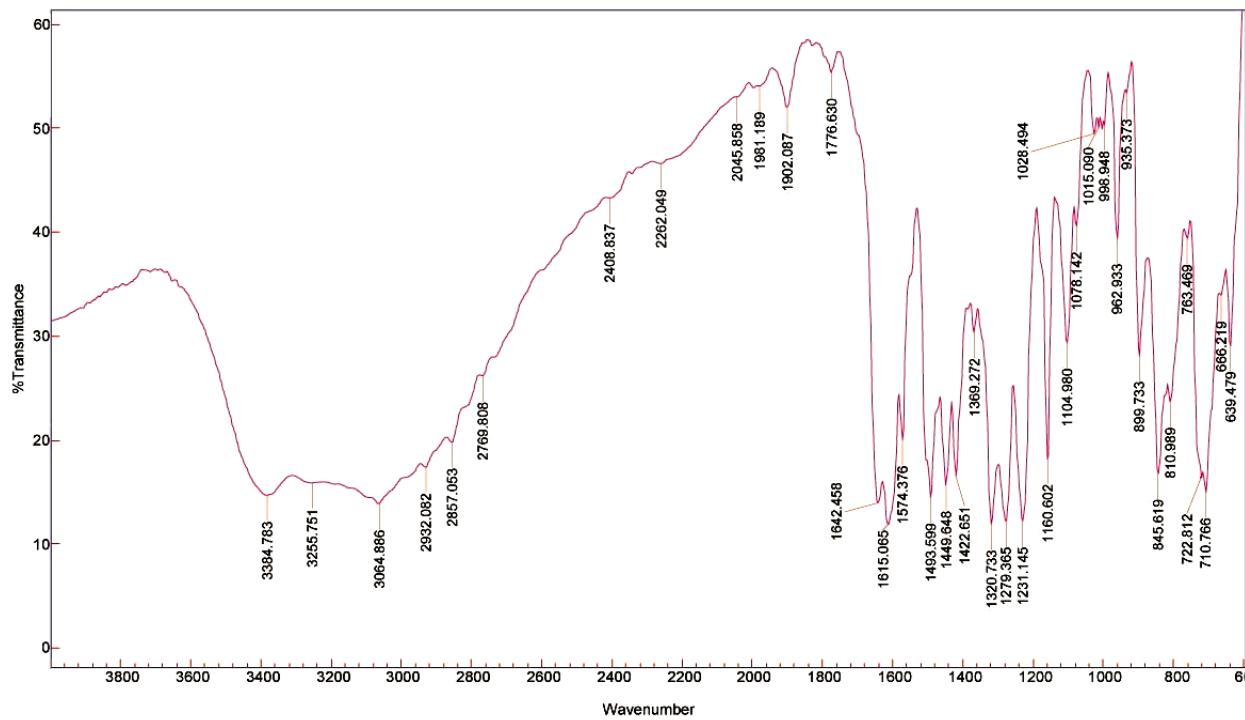


Fig. S5 — IR spectra of (3,4-bis((E)-(4-methylbenzylideneamino)phenyl)(phenyl)methanone

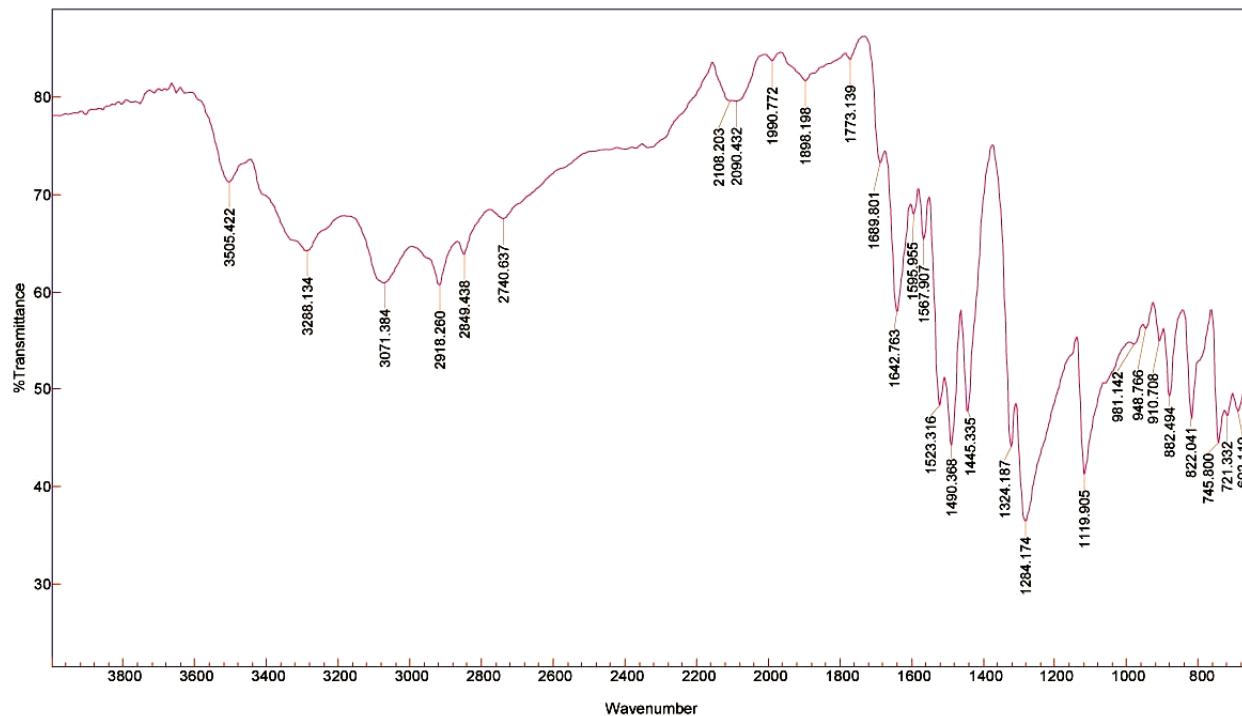
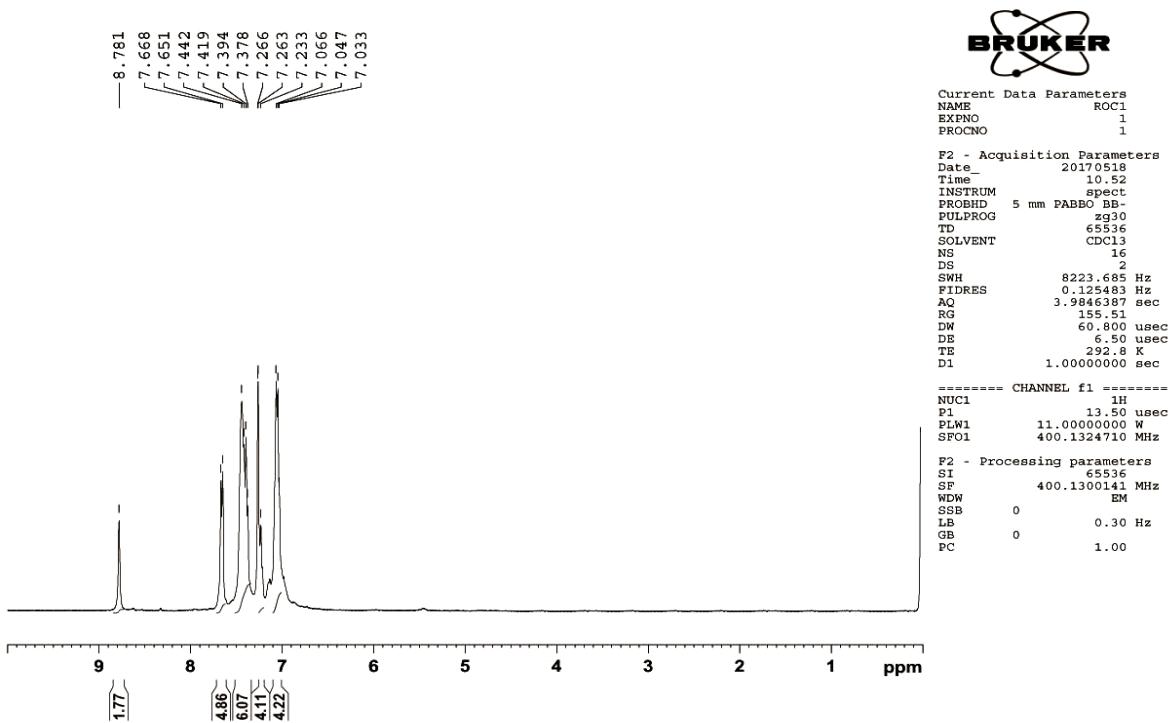


Fig. S6 — IR spectra of (3,4-bis((E)-(4-methoxybenzylideneamino)phenyl)(phenyl)methanone



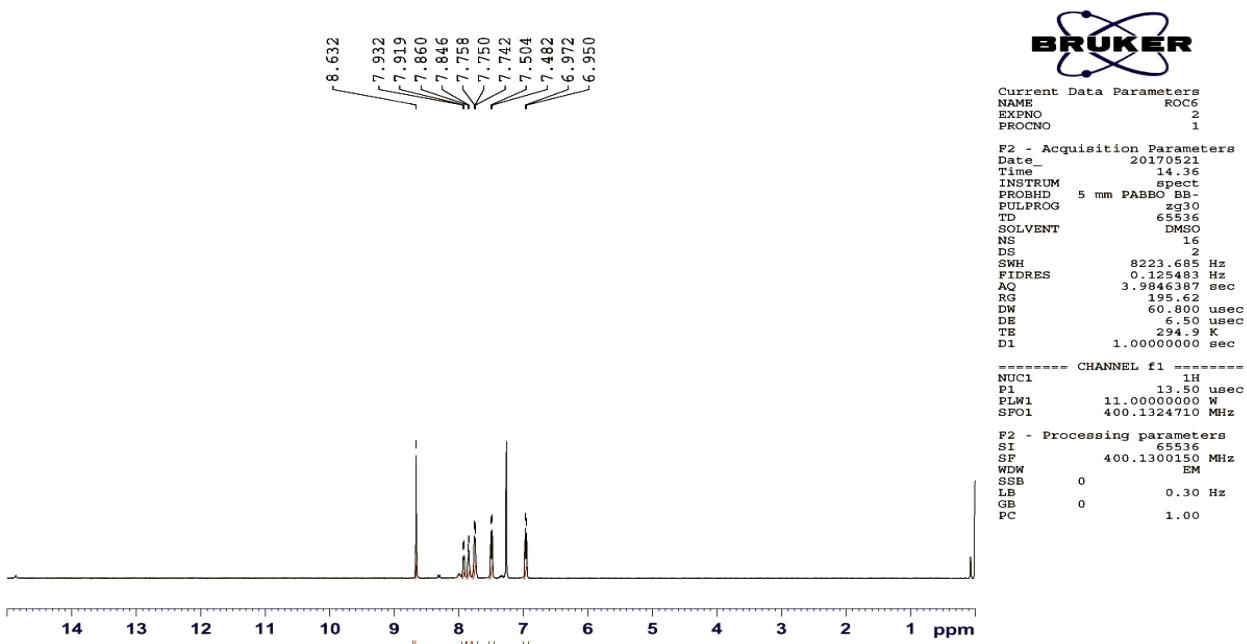


Fig. S8 — ^1H NMR spectra of(3,4-bis((E)-(4-fluorobenzylideneamino)phenyl)(phenyl)methanone

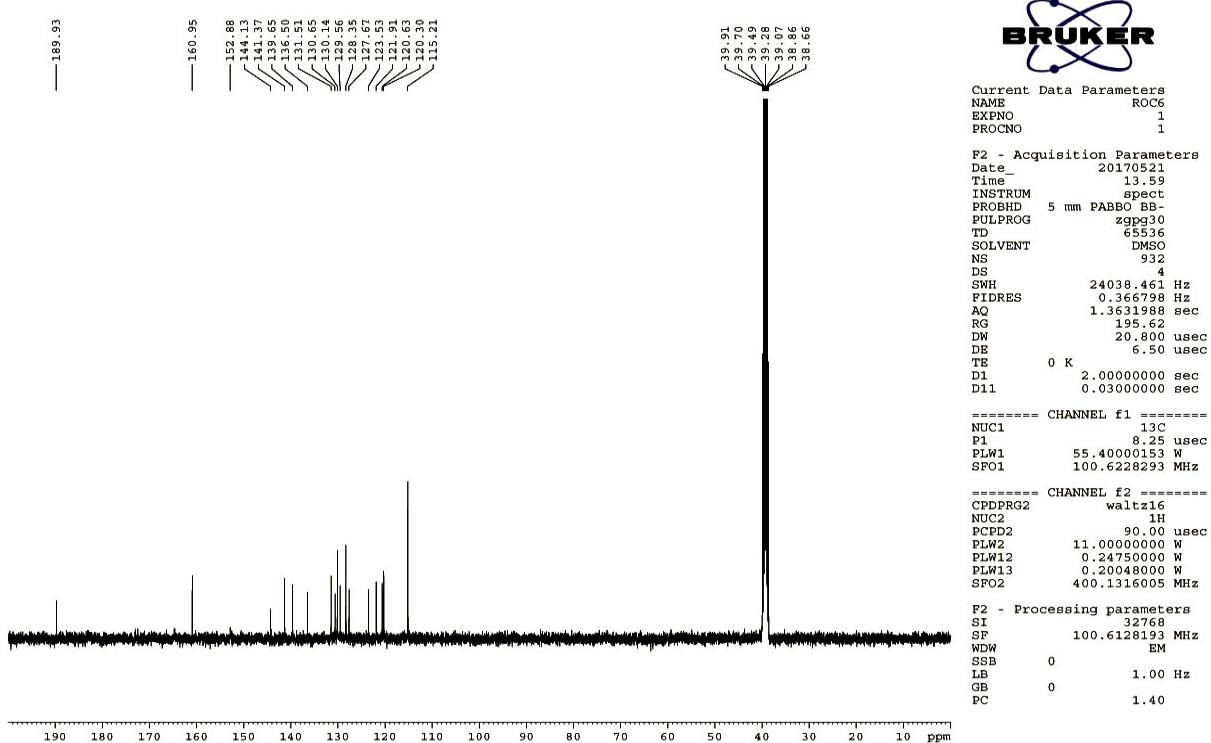


Fig. S8a — ^{13}C NMR spectra of (3,4-bis((E)-(4-fluorobenzylideneamino)phenyl)(phenyl)methanone

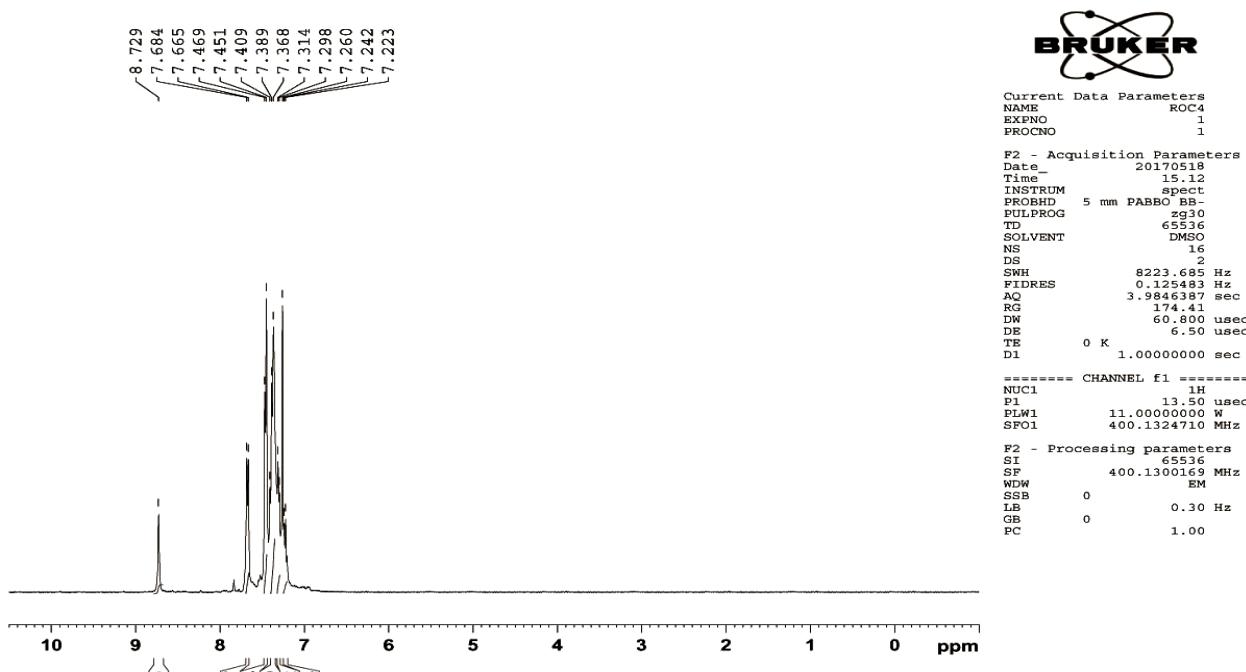


Fig. S9 — ^1H NMR spectra of (3,4-bis((E)-(4-chlorobenzylideneamino)phenyl)(phenyl)methanone

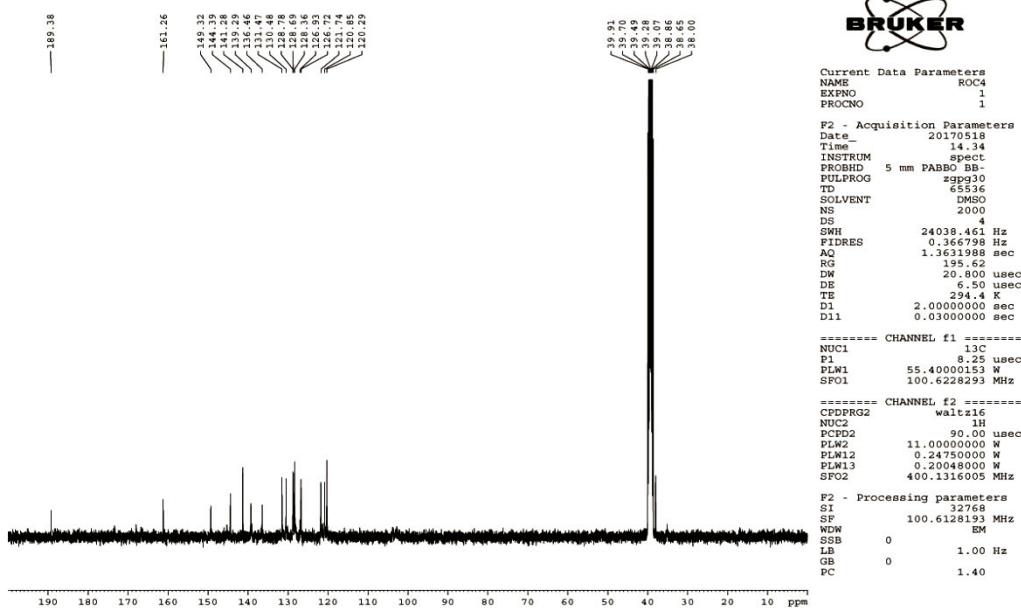


Fig. S9a — ^{13}C NMR spectra of (3,4-bis((E)-(4-chlorobenzylideneamino)phenyl)(phenyl)methanone

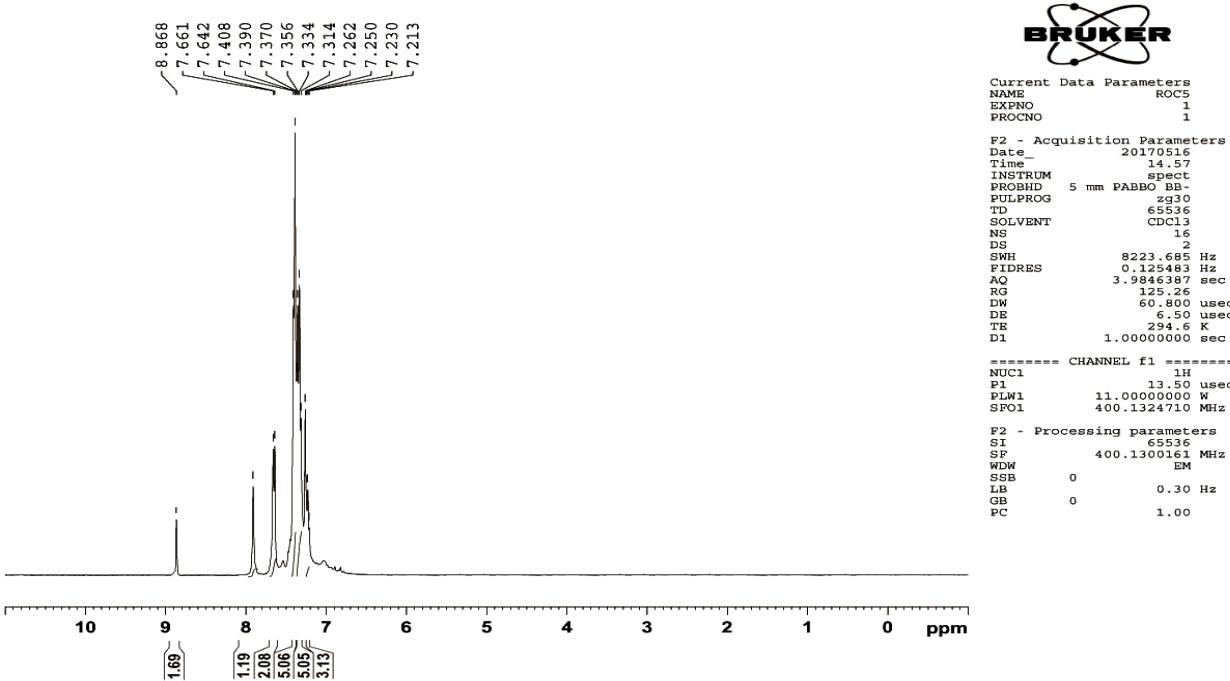


Fig. S10 — ¹H NMR spectra of (3,4-bis((E)-(4-bromobenzylideneamino)phenyl)(phenyl)methanone

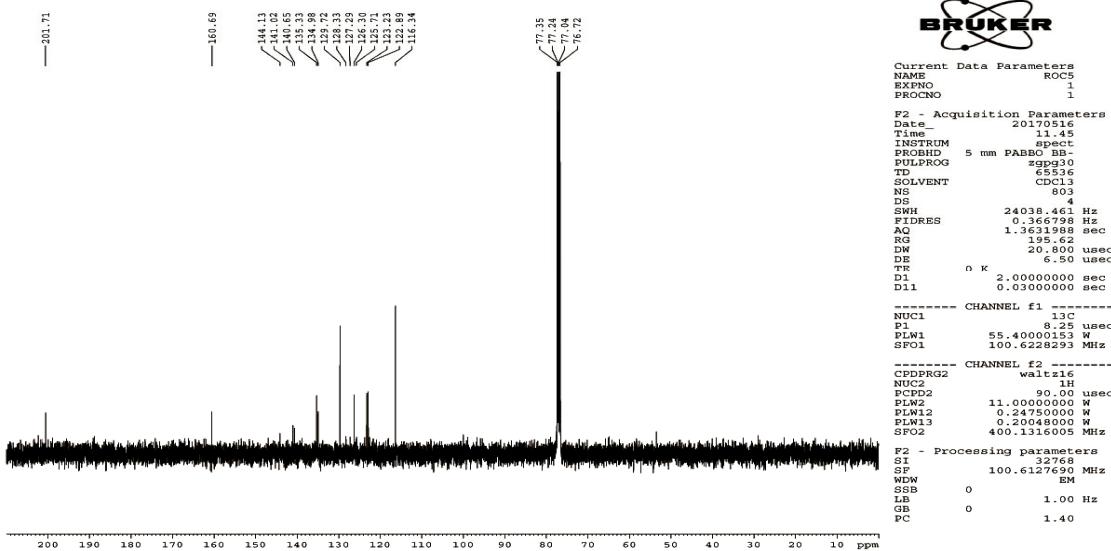


Fig. 10a — ¹³C NMR spectra of (3,4-bis((E)-(4-bromobenzylideneamino)phenyl)(phenyl)methanone

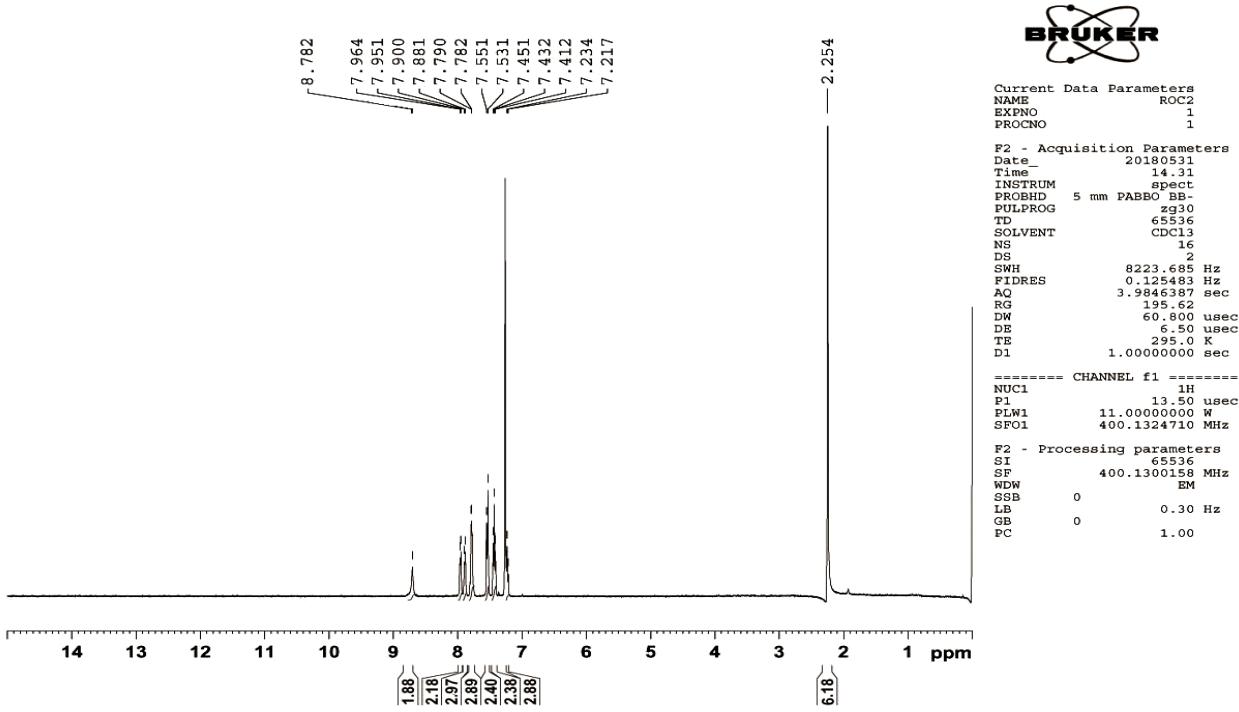


Fig. S11 — ¹H NMR spectra of (3,4-bis((E)-(4-methoxybenzylideneamino)phenyl)(phenyl)methanone

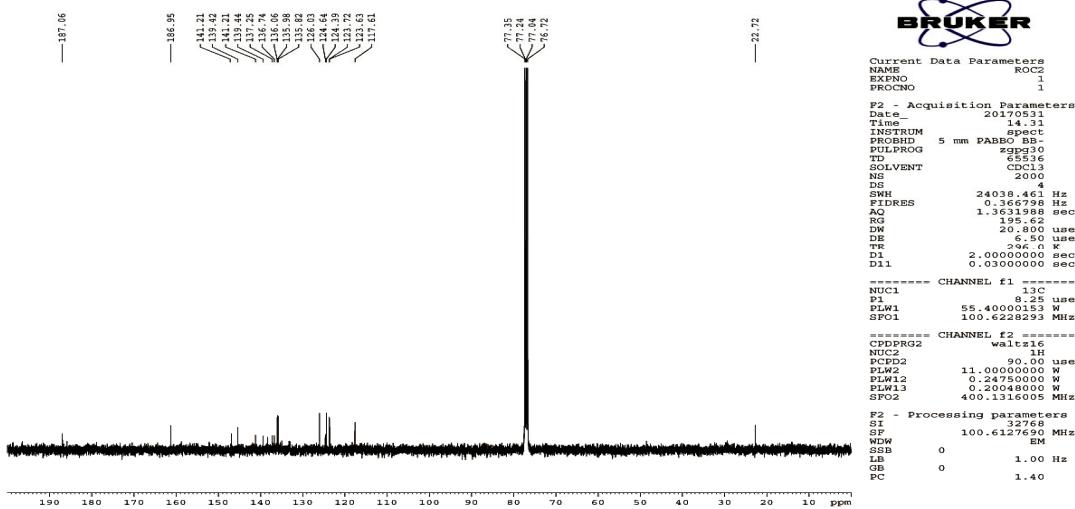


Fig. S11a — ¹H NMR spectra of (3,4-bis((E)-(4-methoxybenzylideneamino)phenyl)(phenyl)methanone

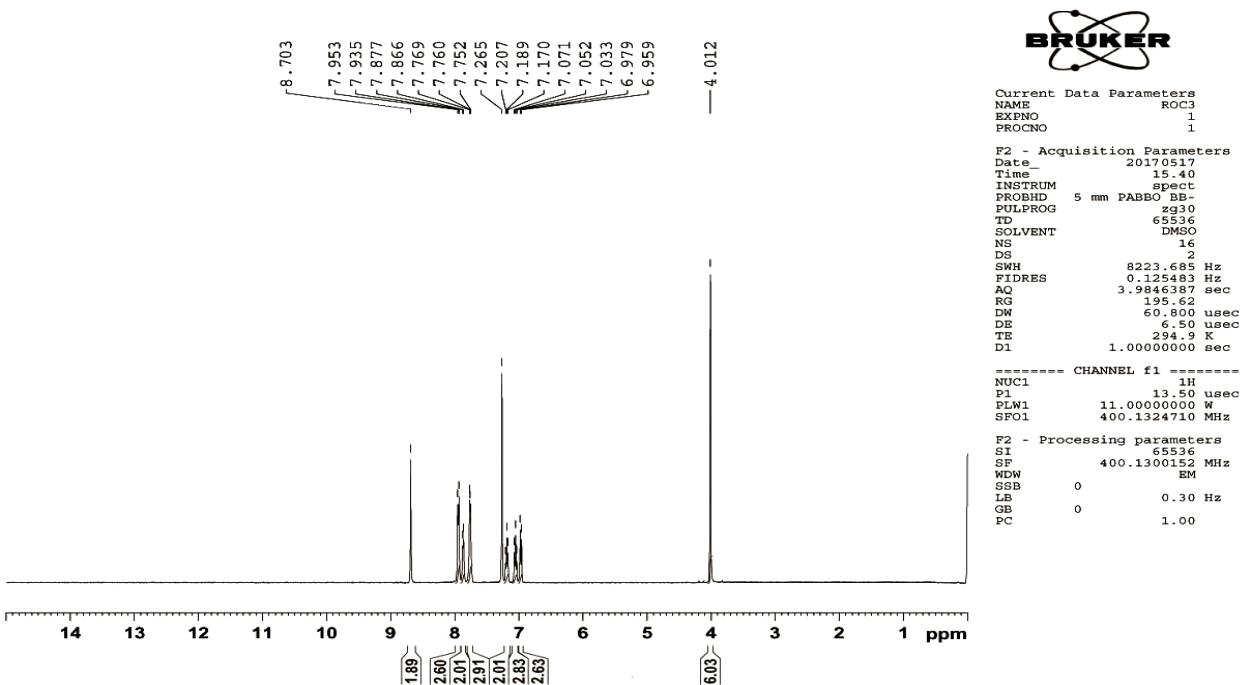


Fig. S12 — ^1H NMR spectra of (3,4-bis((E)-(4-methylbenzylideneamino)phenyl)(phenyl)methanone

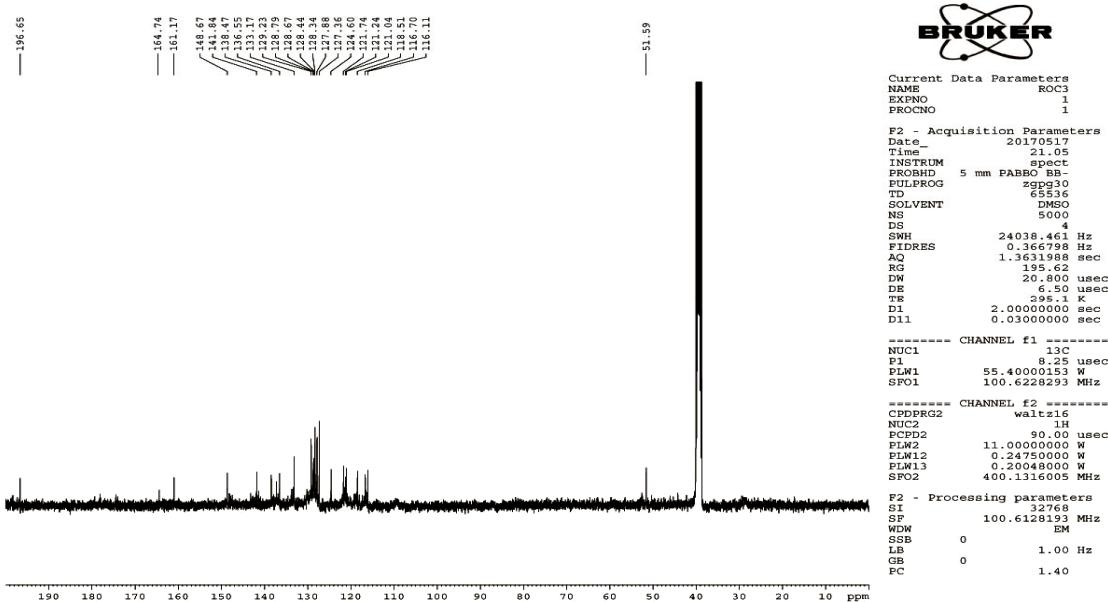


Fig. S12a — ^{13}C NMR spectra of (3,4-bis((E)-(4-methylbenzylideneamino)phenyl)(phenyl)methanone

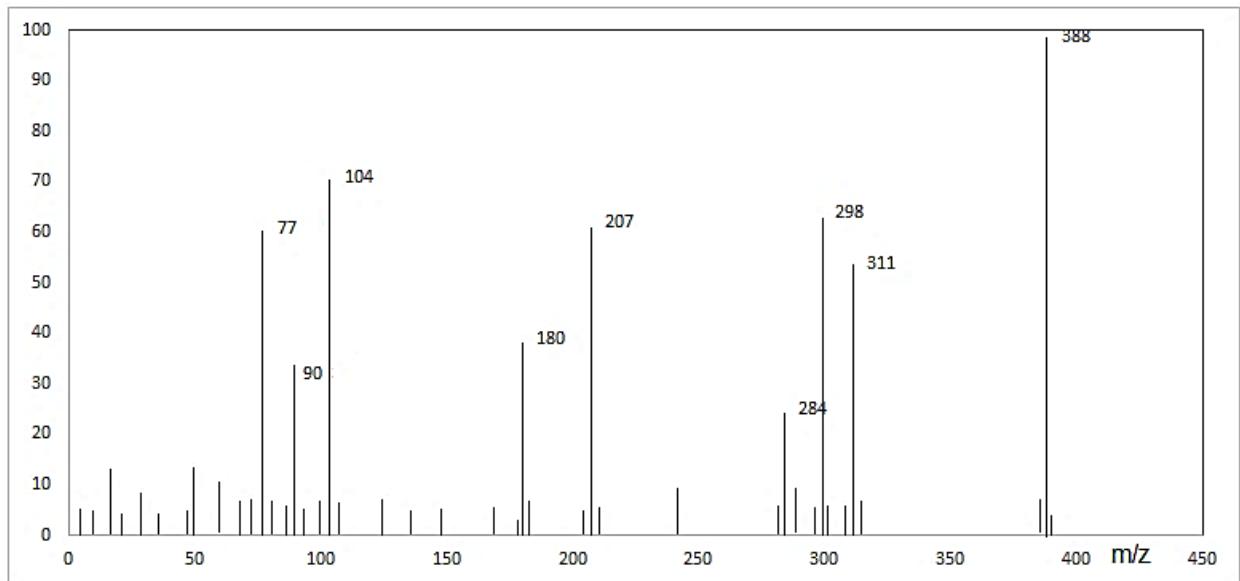


Fig. S13 — Mass spectra of (3,4-bis((E)-benzylideneamino)phenyl)(phenyl)methanone

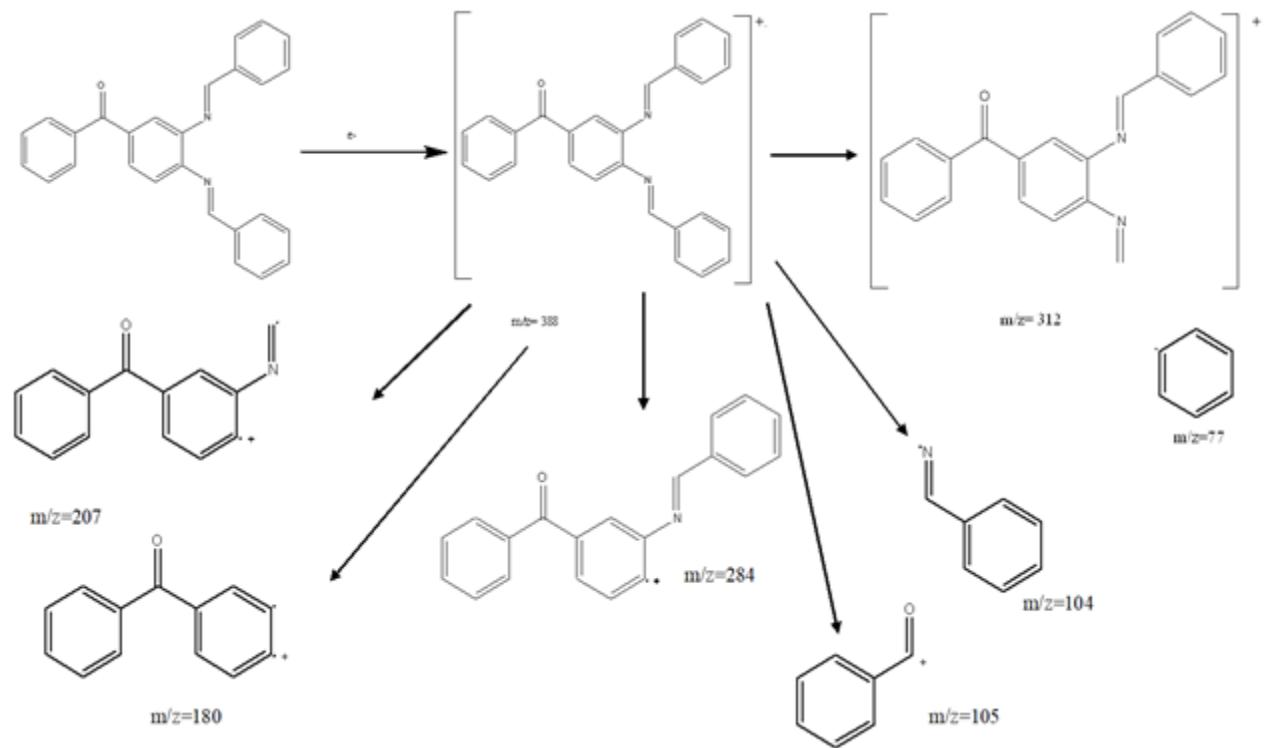


Fig. S13a — Possible assigned mass spectral fragments of (3,4-bis((E)-benzylideneamino)phenyl)(phenyl)methanone

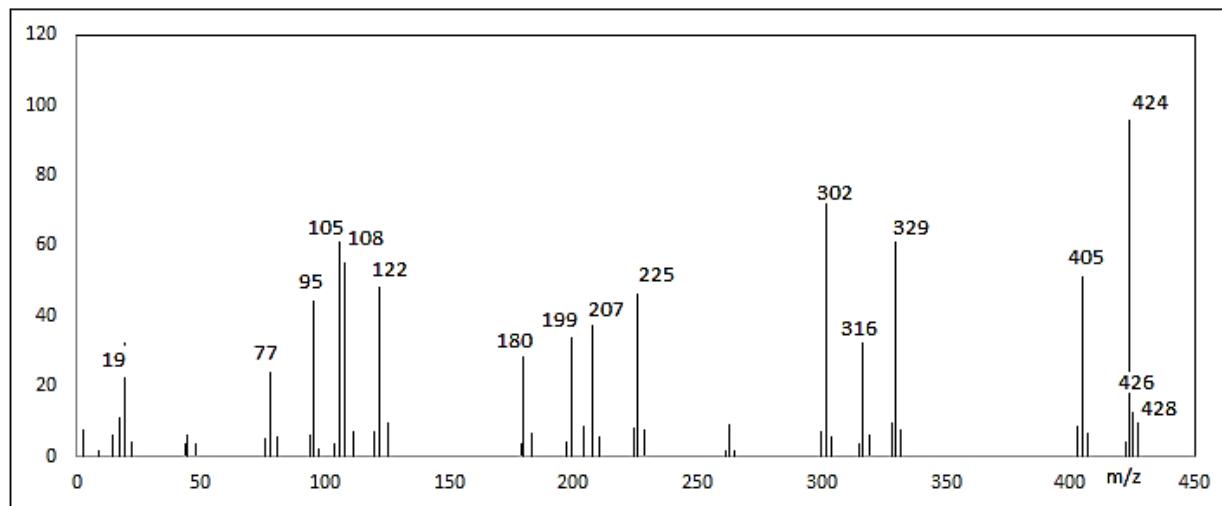


Fig. S14 — Mass spectra of (3,4-bis((E)-(4-fluorobenzylidene)amino)phenyl)(phenyl)methanone

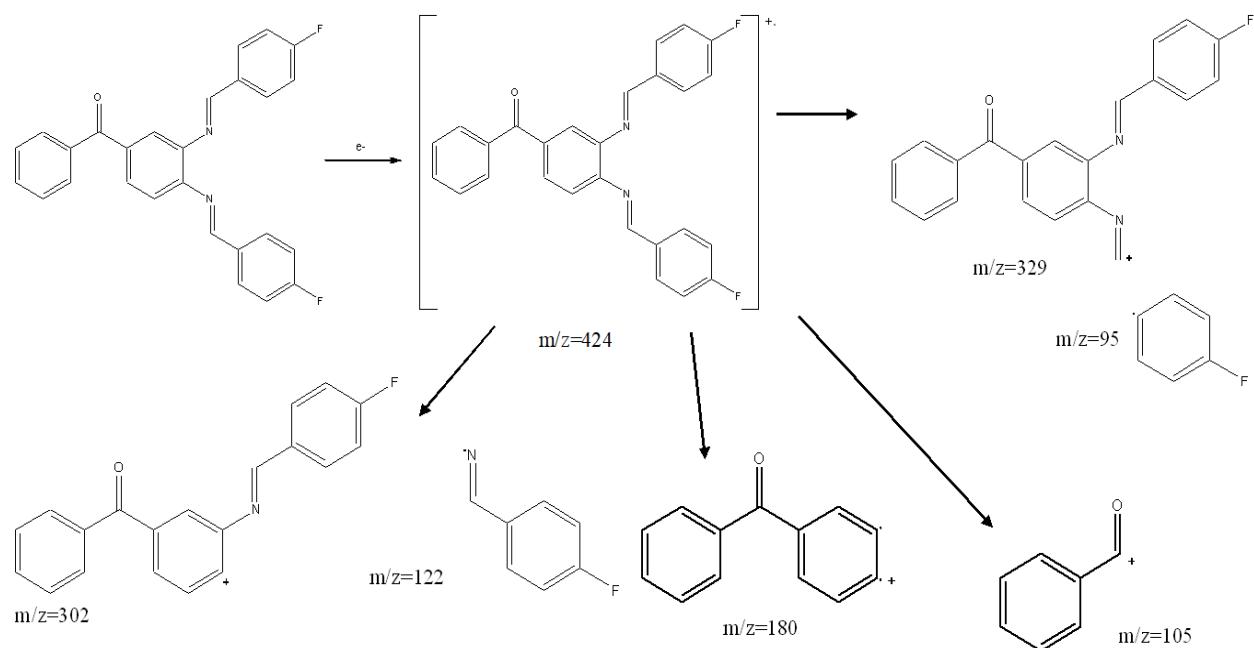


Fig. S14a — Possible assigned mass spectral fragment of (3,4-bis((E)-(4-fluorobenzylidene)amino)phenyl)(phenyl)methanone

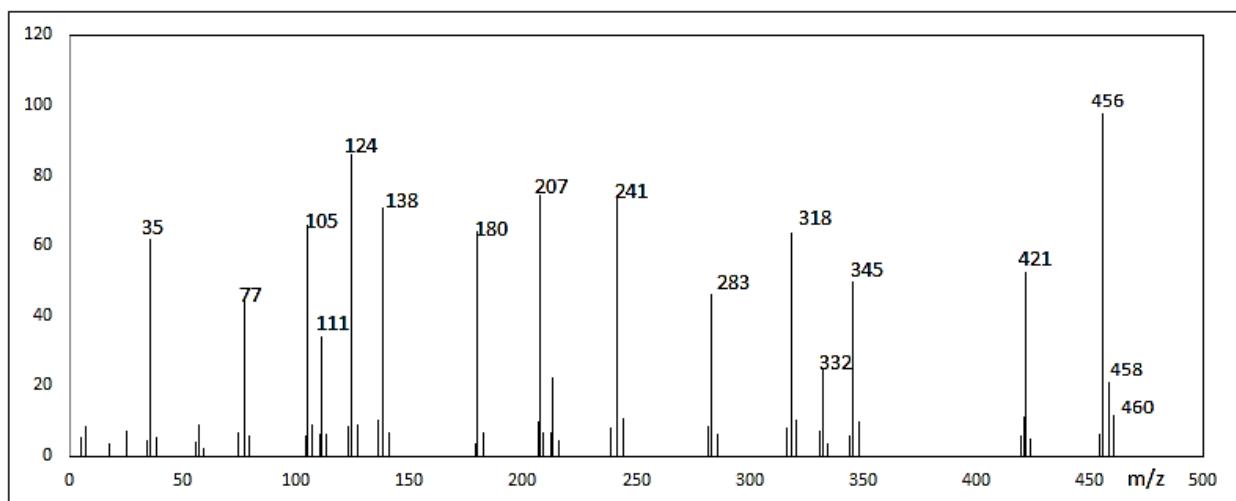


Fig. S15 — Mass spectra of (3,4-bis((E)-(4-chlorobenzylidene)amino)phenyl)(phenyl)methanone

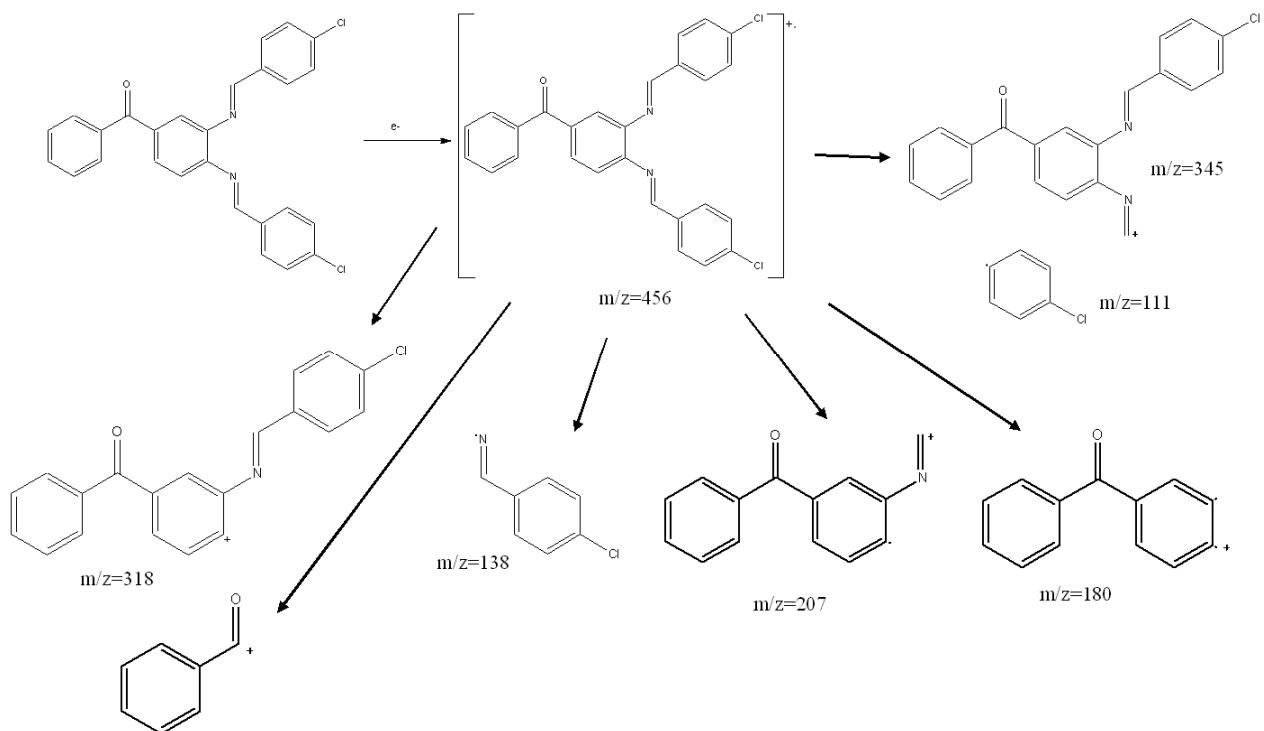


Fig. S15a — Possible assigned mass spectral fragments of (3,4-bis((E)-(4-chlorobenzylidene)amino)phenyl)(phenyl)methanone

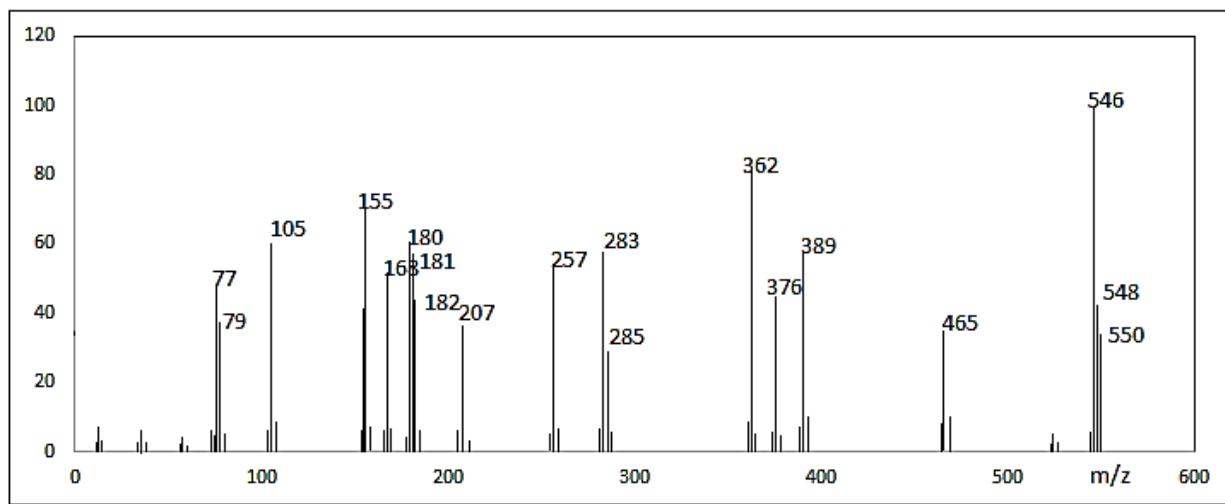


Fig. S16 — Mass spectra of (3,4-bis((E)-(4-bromobenzylidene) amino)phenyl) (phenyl) methanone

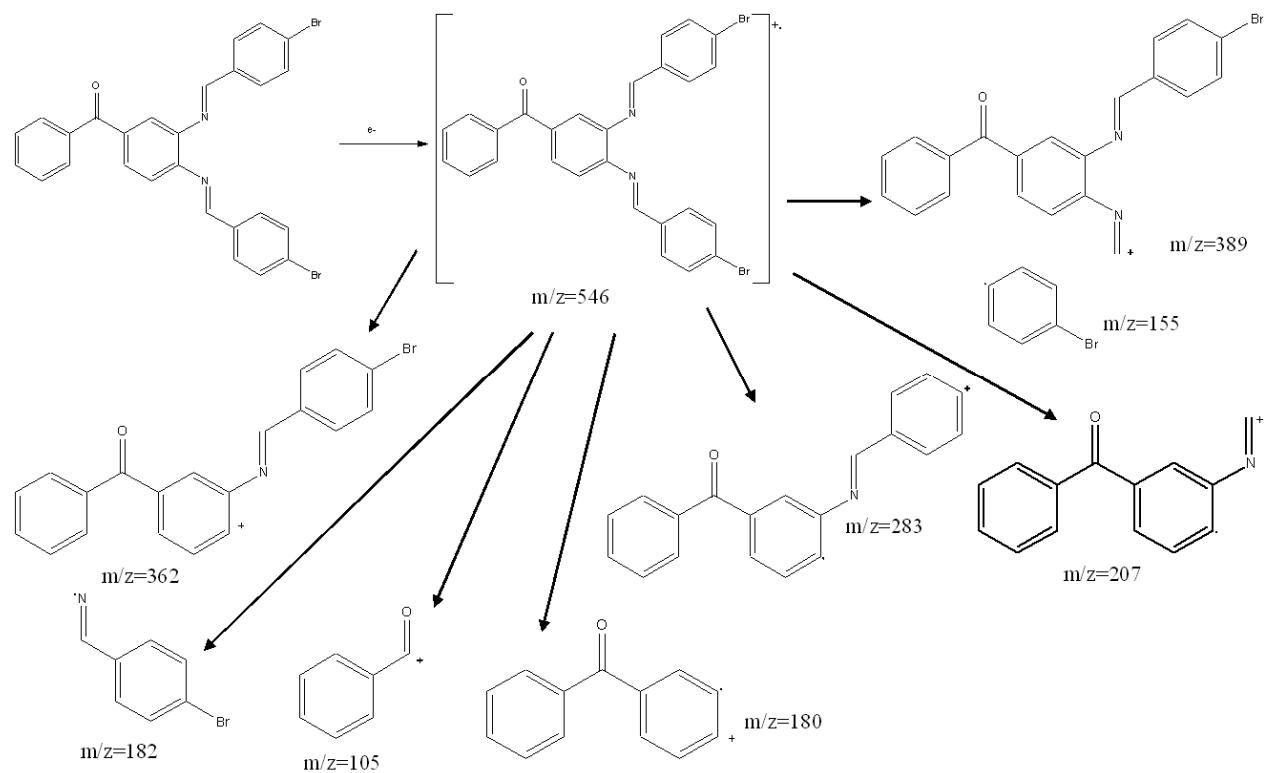


Fig. S16a — Possible assigned mass spectral fragments of (3,4-bis((E)-(4-bromobenzylidene)amino)phenyl)(phenyl)methanone

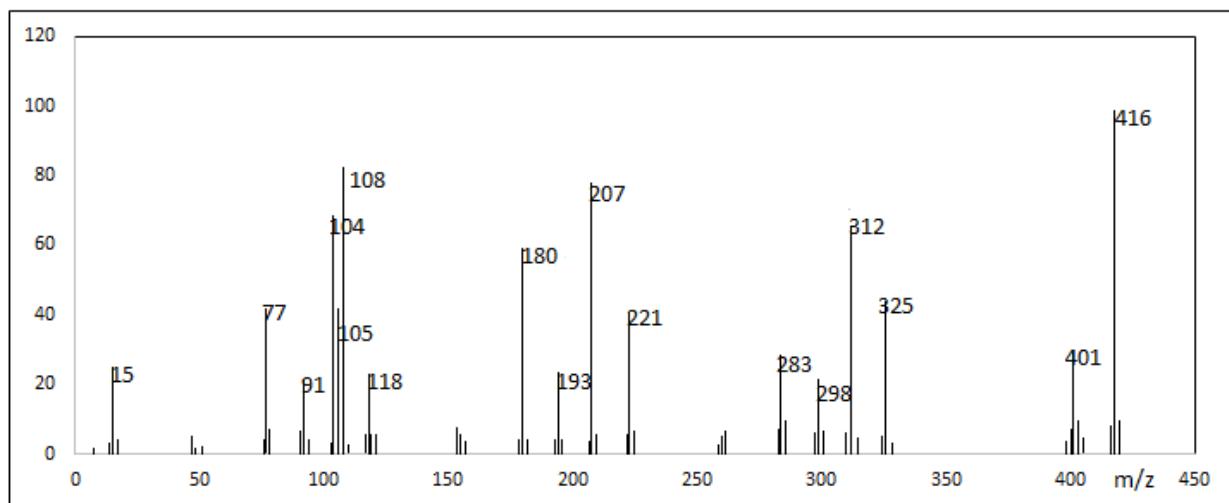


Fig. S17 — Mass spectra of (3,4-bis((E)-(4-methylbenzylidene) amino)phenyl) (phenyl) methanone

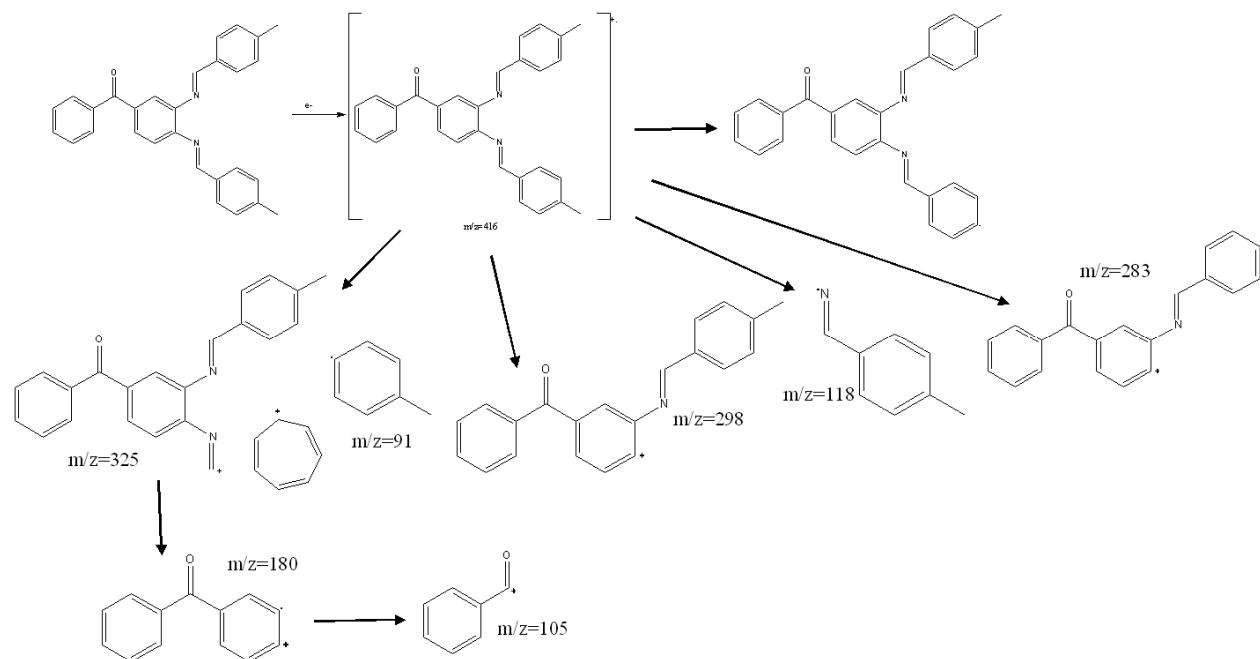


Fig. S17a Possible assigned mass spectral fragments of (3,4-bis((E)-(4-methylbenzylidene)amino)phenyl)(phenyl)methanone

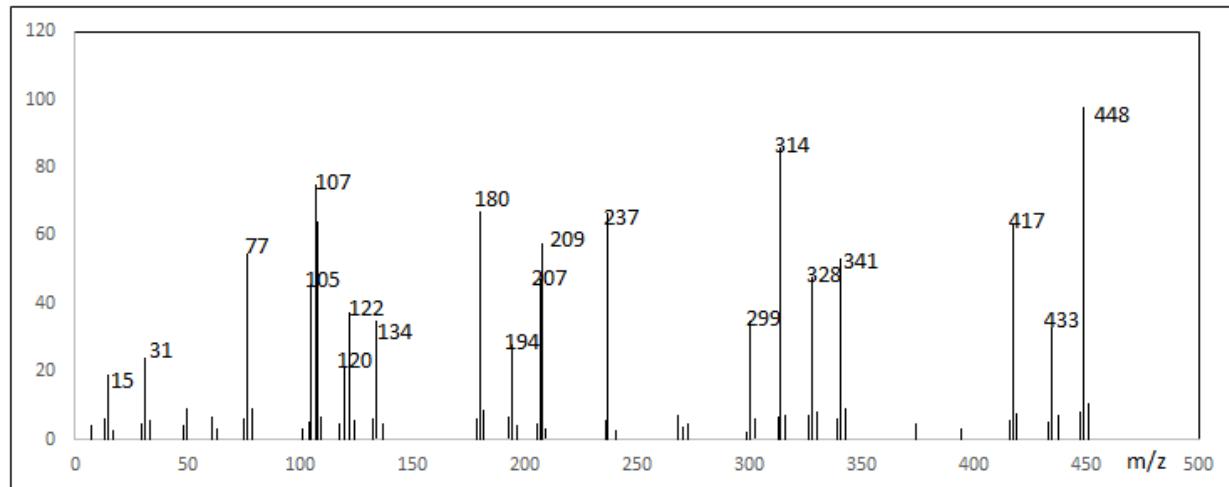


Fig. 18 — Mass spectra of (3,4-bis((E)-(4-methoxybenzylidene) amino)phenyl) (phenyl) methanone

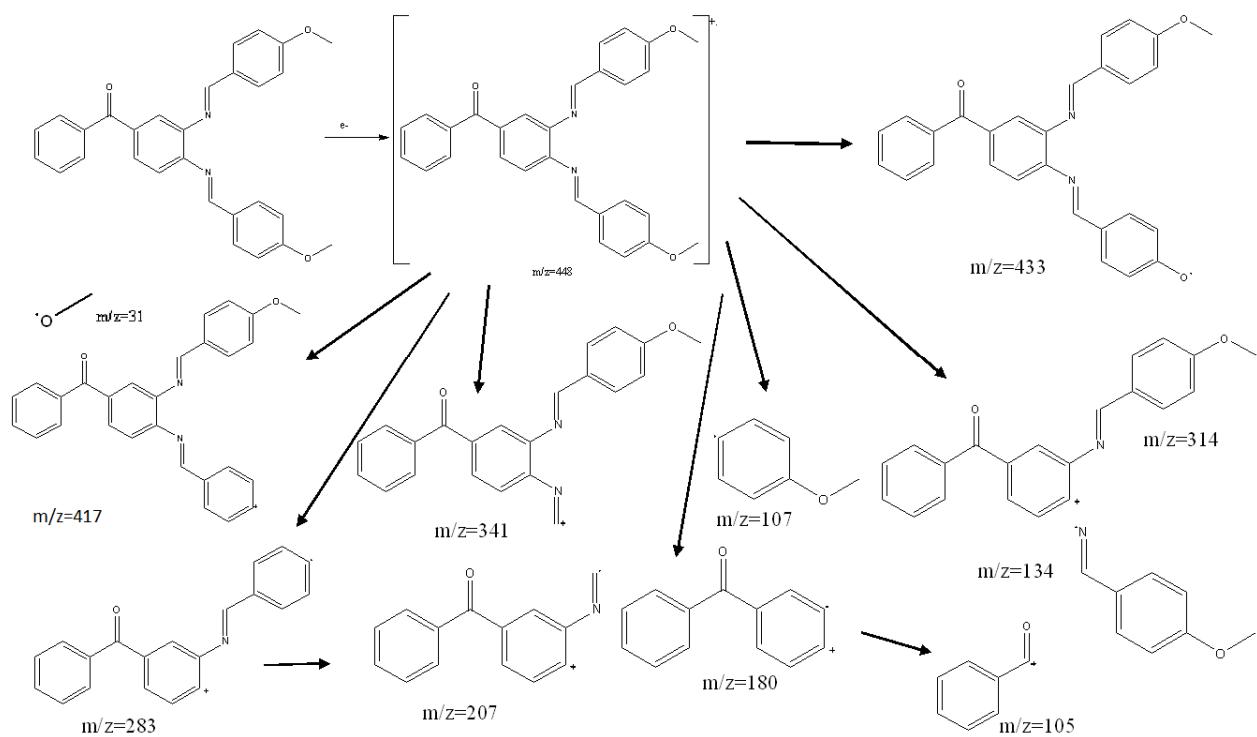


Fig. 18a — Possible assigned mass spectral fragments of (3,4-bis((E)-(4-methoxybenzylidene)amino)phenyl)(phenyl)methanone