

Supporting Information

Rec. Nat. Prod. X:X (2021) XX-XX

New alkaloidal Selective human MAO-B inhibitors from *Erythrina corallodendron* L. stems

Mohamed Aboelmagd^{1,2}, Khaled M. Elokely^{3,4}, Ataa Said²,

Eman G. Haggag⁵, Mohammed M. Ghoneim^{6,7*}

and Samir A. Ross^{1,8*}

¹National Center for Natural Product Research, School of Pharmacy, The University of Mississippi, University, MS 38677, USA

²Pharmacognosy Department, National Research Centre, Dokki, Giza, 12622, Egypt

³Department of Pharmaceutical Chemistry, Tanta University, 31527 Tanta, Egypt

⁴Department of Chemistry and Institute for Computational Molecular Science, Temple University, Philadelphia, PA 19122, USA

⁵Pharmacognosy Department, Faculty of Pharmacy, Helwan University, Helwan, Cairo 11795, Egypt

⁶Department of Pharmacy, College of Pharmacy, AlMaarefa University, Ad Diriyah, Riyadh 13713, Saudi Arabia

⁷Department of Pharmacognosy, Faculty of Pharmacy, Al-Azhar University, Cairo, 11371, Egypt

⁸Department of BioMolecular Sciences, Pharmacognosy Division, School of Pharmacy, The University of Mississippi, University, MS 38677, USA

Table of Contents	Page
Figure S1: ¹ H NMR spectrum of compound 1	2
Figure S2: ¹³ C NMR spectrum of compound 1	2
Figure S3: ¹³ C-DEPT NMR spectrum of compound 1	3
Figure S4: COSY spectrum of compound 1	3
Figure S5: HMQC spectrum of compound 1	4
Figure S6: HMBC spectrum of compound 1	4
Figure S7: NOSEY spectrum of compound 1	5
Figure S8: HRESI spectrum of compound 1	6
Figure S9: ¹ H NMR spectrum of compound 2	7
Figure S10: ¹³ C NMR spectrum of compound 2	7
Figure S11: HRESI spectrum of compound 2	8
Figure S12: ¹ H NMR spectrum of compound 3	9
Figure S13: ¹³ C NMR spectrum of compound 3	9
Figure S14: HRESI-MS spectrum of compound 3	10
Figure S15: ¹ H NMR spectrum of compound 4	11
Figure S16: ¹³ C NMR spectrum of compound 4	11
Figure S17: HRESI-MS spectrum of compound 4	12
Figure S18: ¹ H NMR spectrum of compound 5	13
Figure S19: ¹³ C NMR spectrum of compound 5	13
Figure S20: HRESI-MS spectrum of compound 5	14

* Corresponding author: E- Mail: mghoneim@mcst.edu.sa; (MMG) Phone: +966-537415011 and sross@olemiss.edu, (SAR) Phone: 1-662-9011031

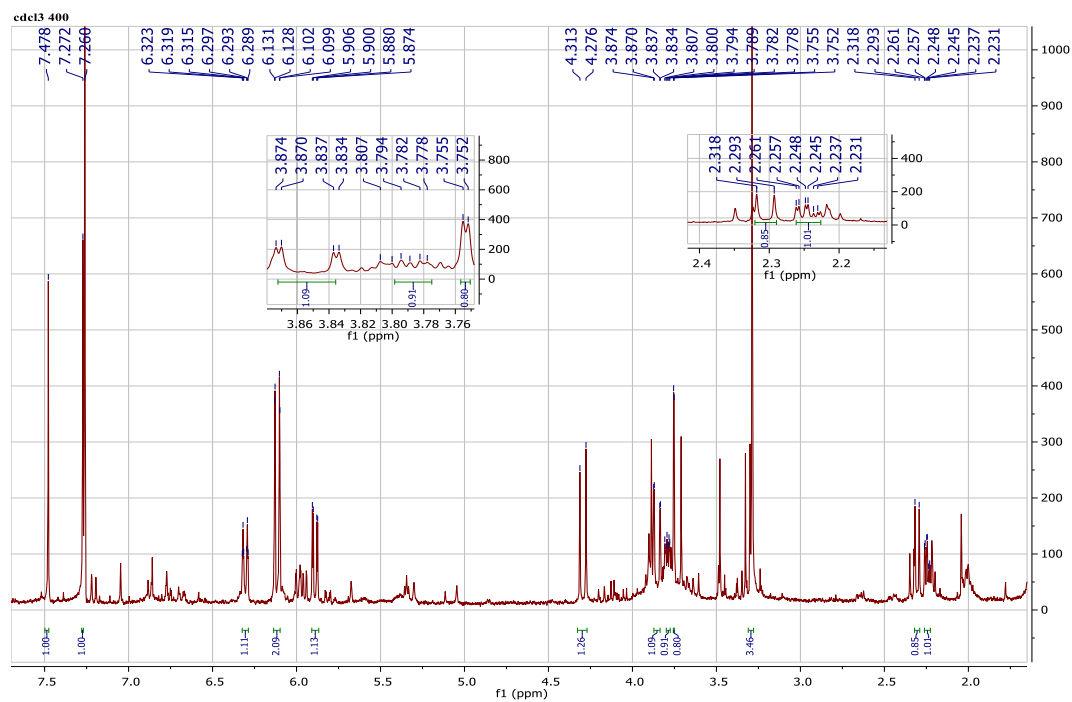


Figure S1: ¹H NMR spectrum of compound **1**

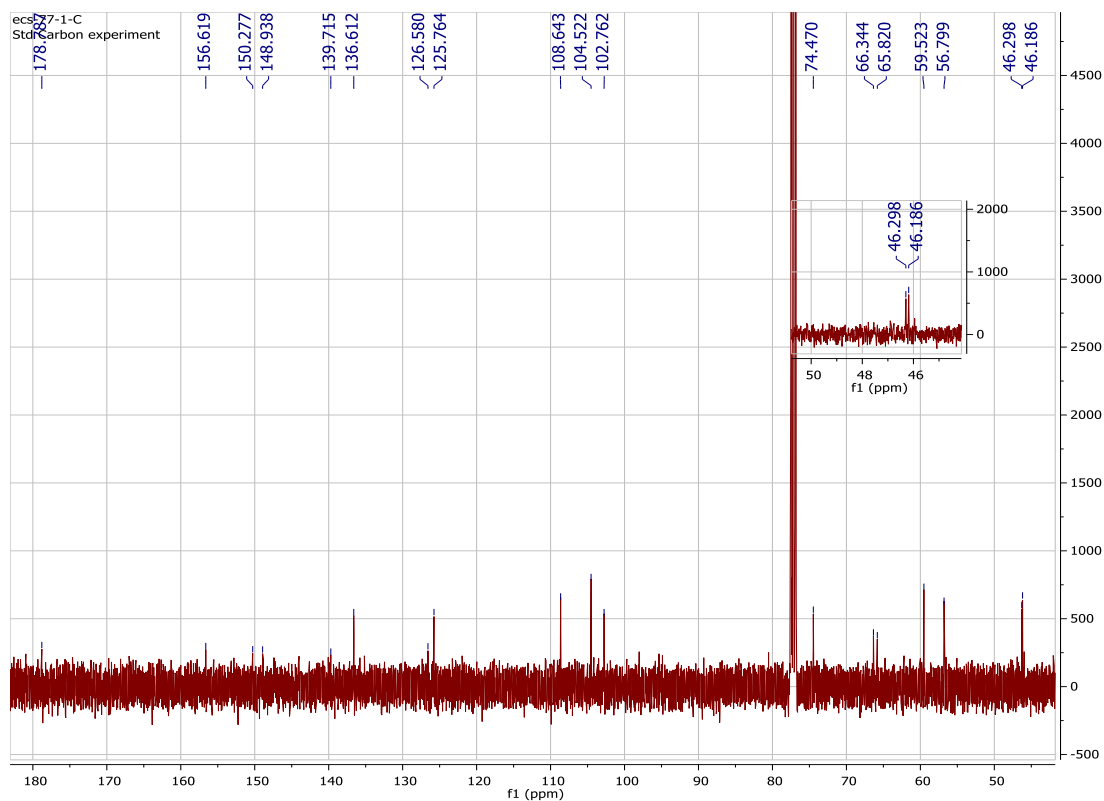


Figure S2: ¹³C NMR spectrum of compound **1**

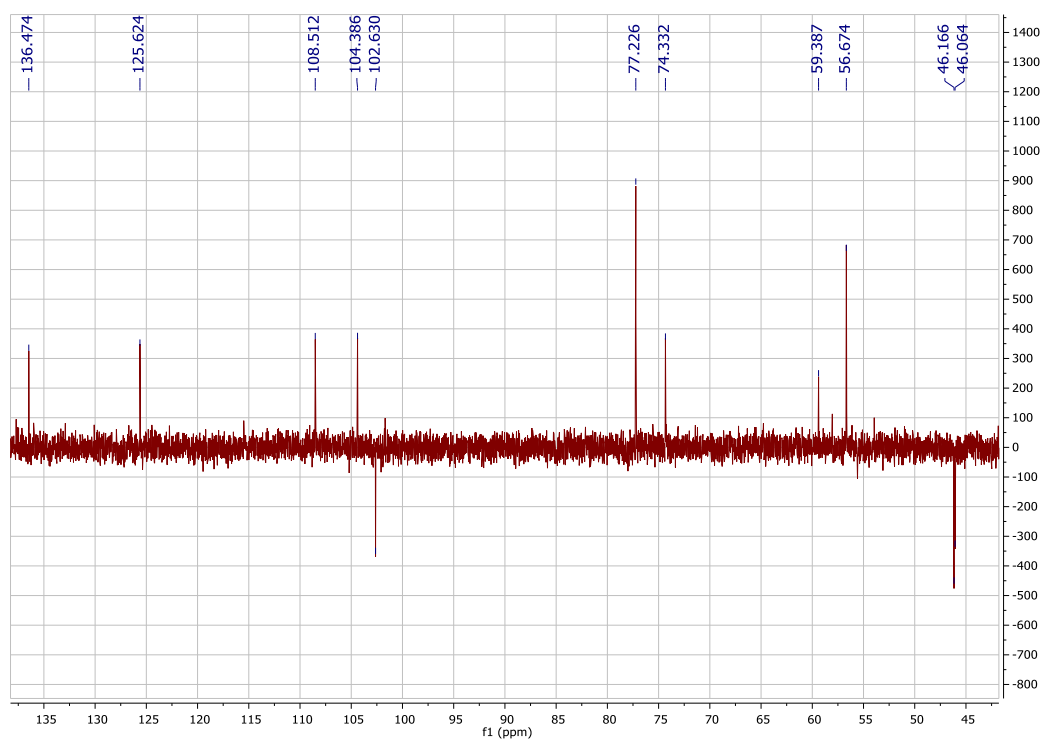


Figure S3: ^{13}C -DEPT NMR spectrum of compound **1**

cosy

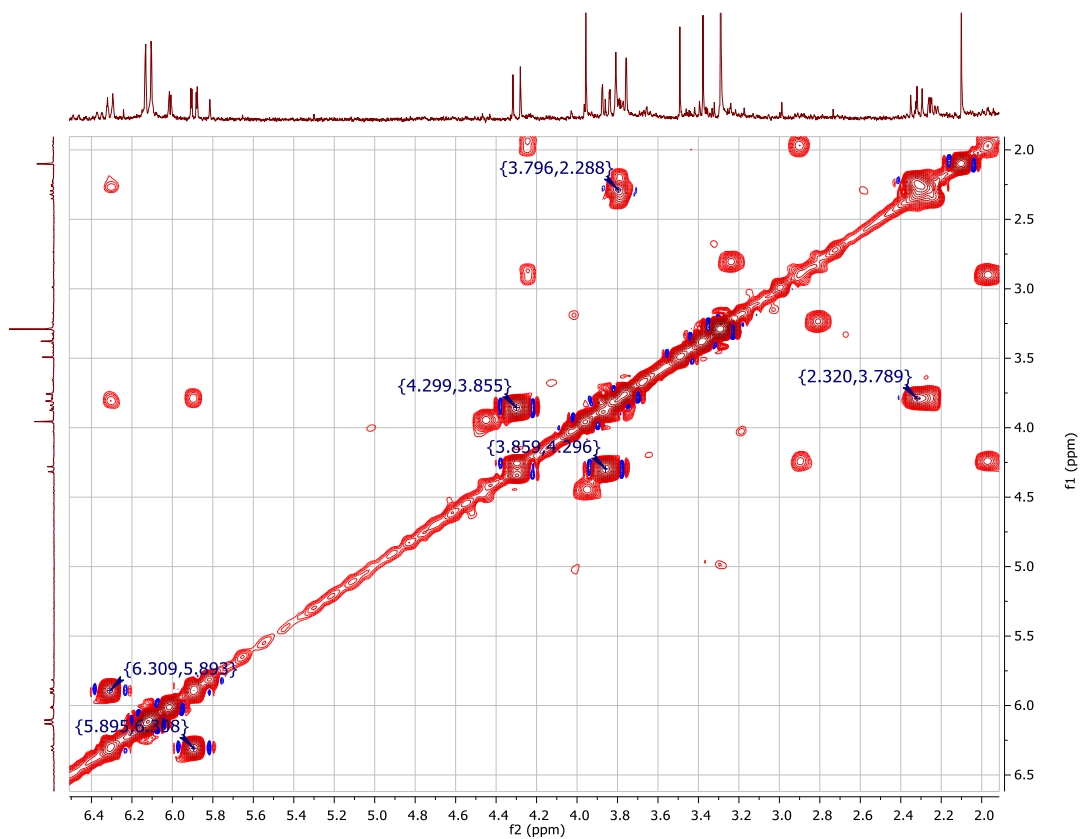


Figure S4: COSY spectrum of compound **1**

QC

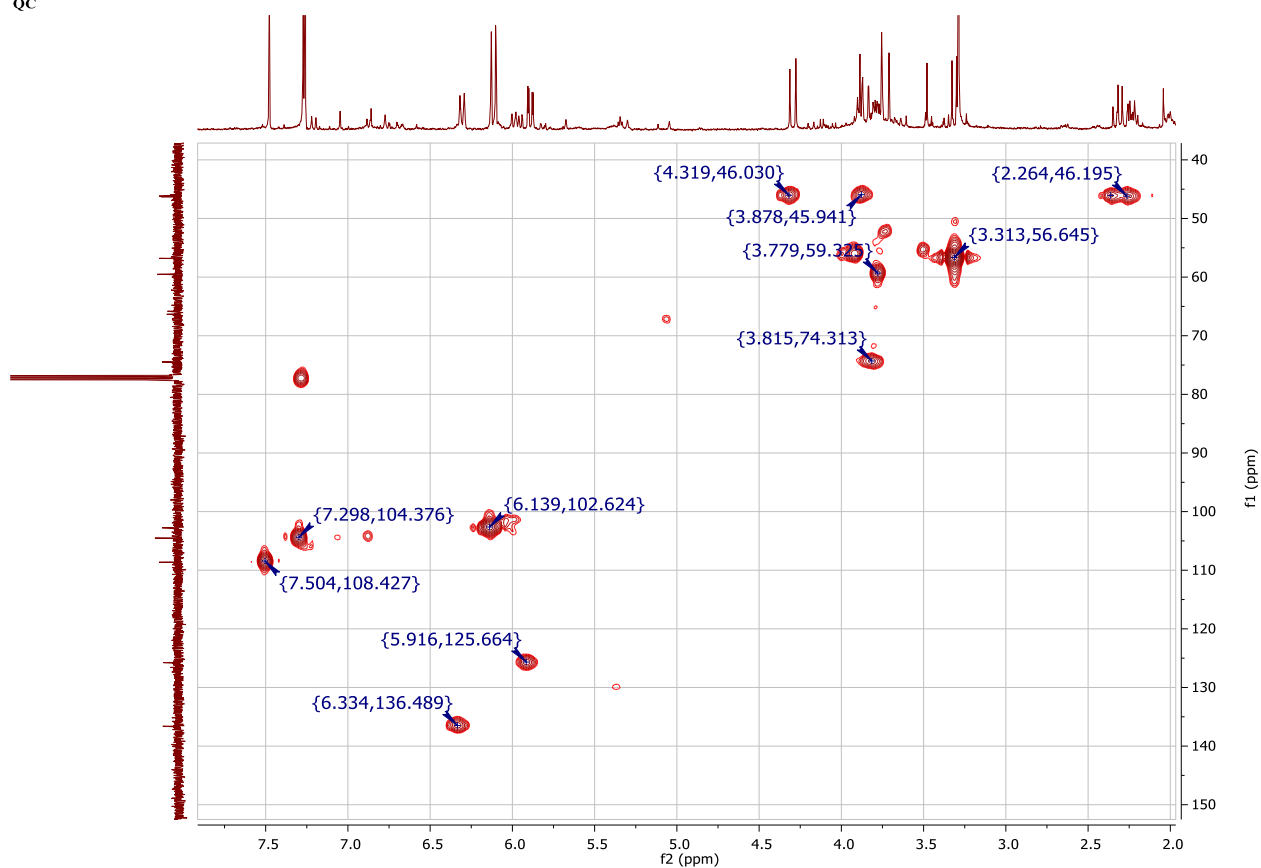


Figure S5: HMBC spectrum of compound 1

HMBC

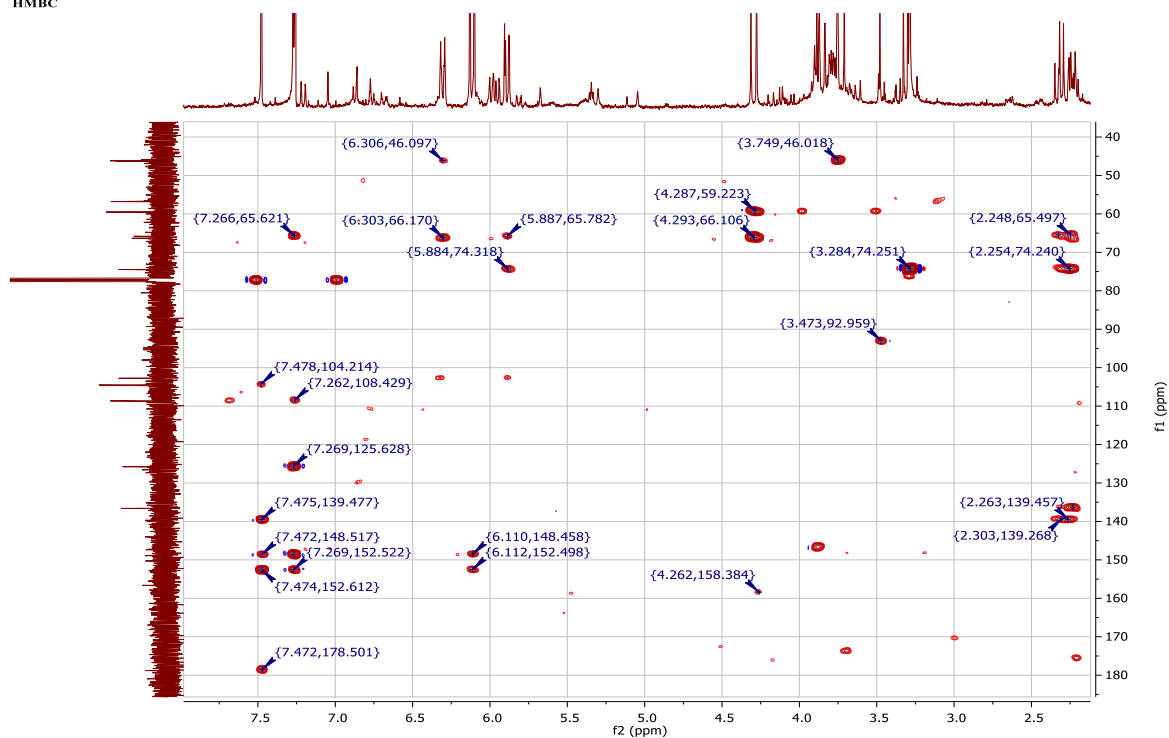


Figure S6: HMBC spectrum of compound 1

cosy

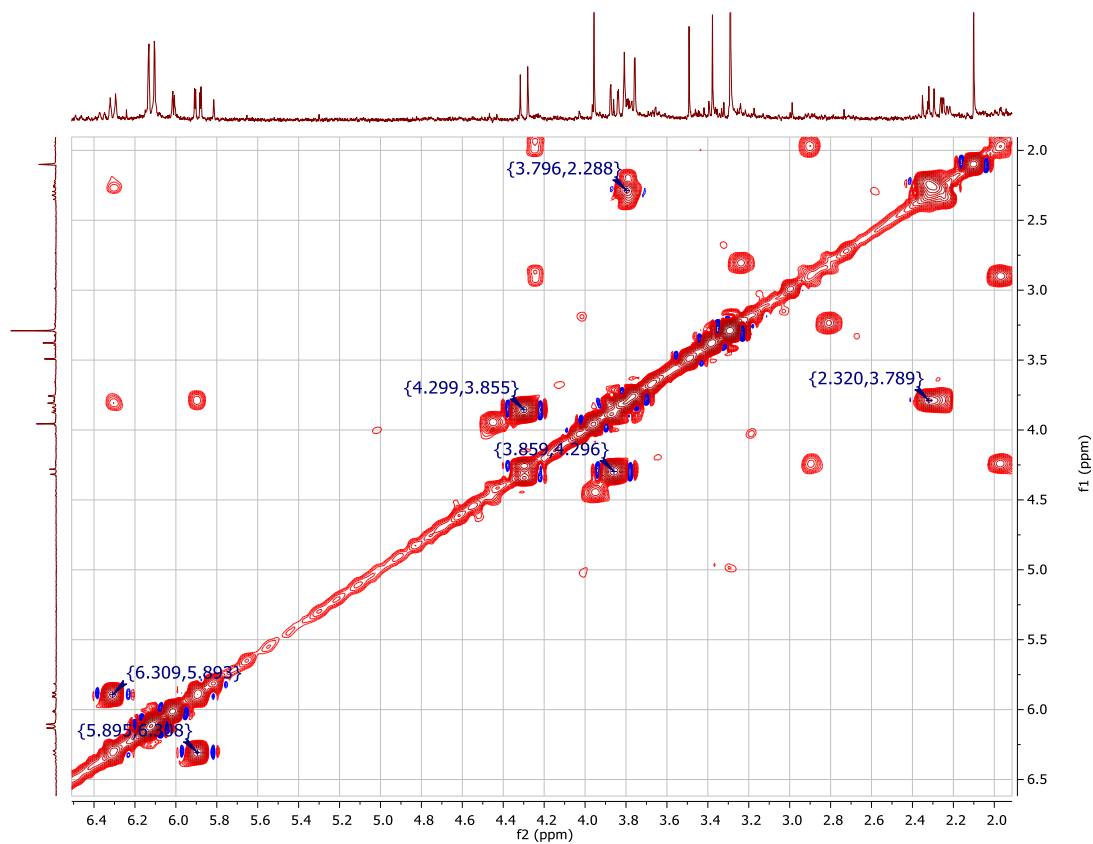


Figure S7: NOSEY spectrum of compound 1

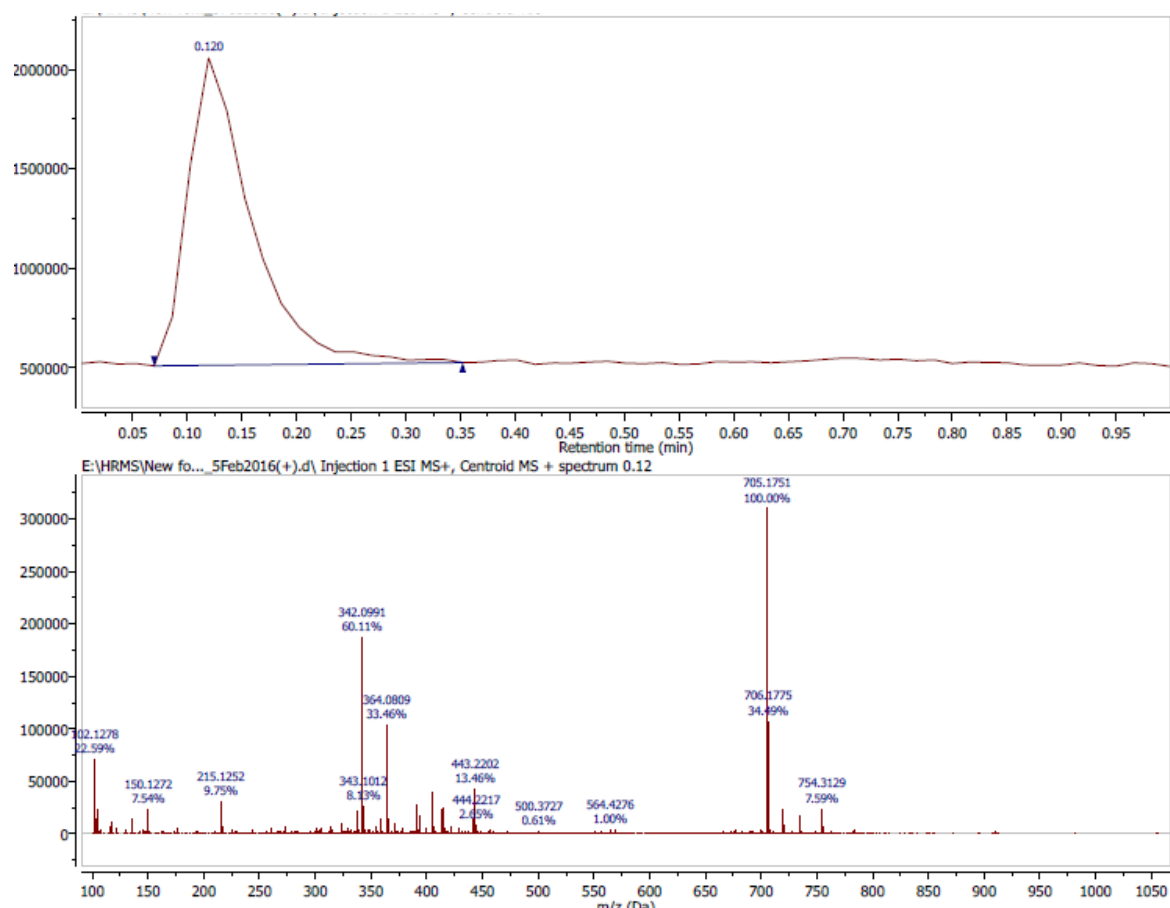


Figure S8: HRESI-MS spectrum of compound **1**

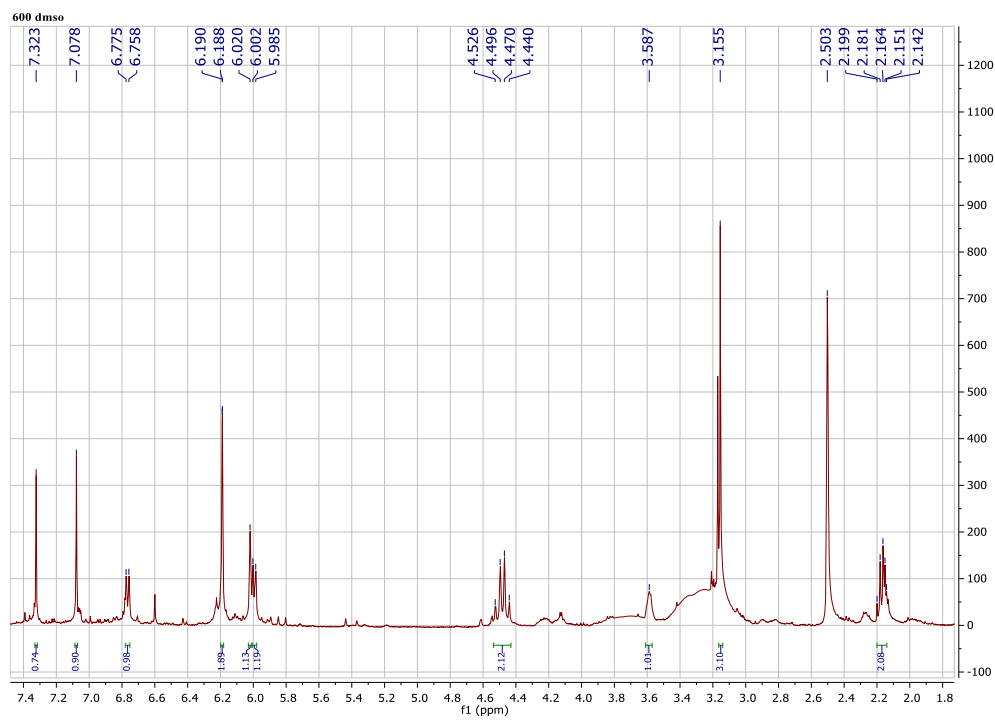


Figure S9: ^1H NMR spectrum of compound 2

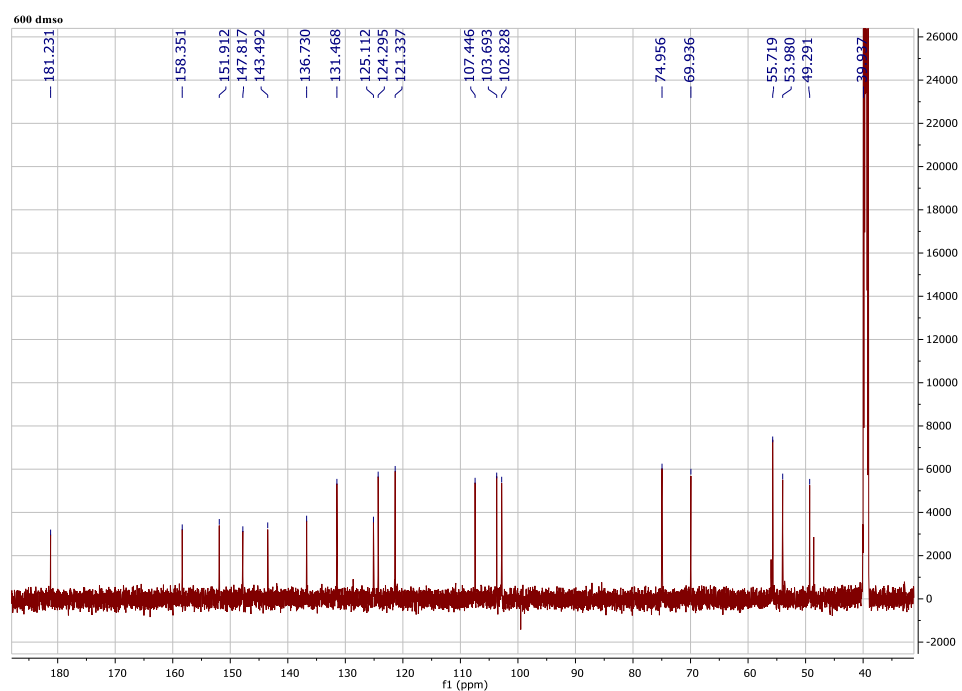


Figure S10: ^{13}C NMR spectrum of compound 2

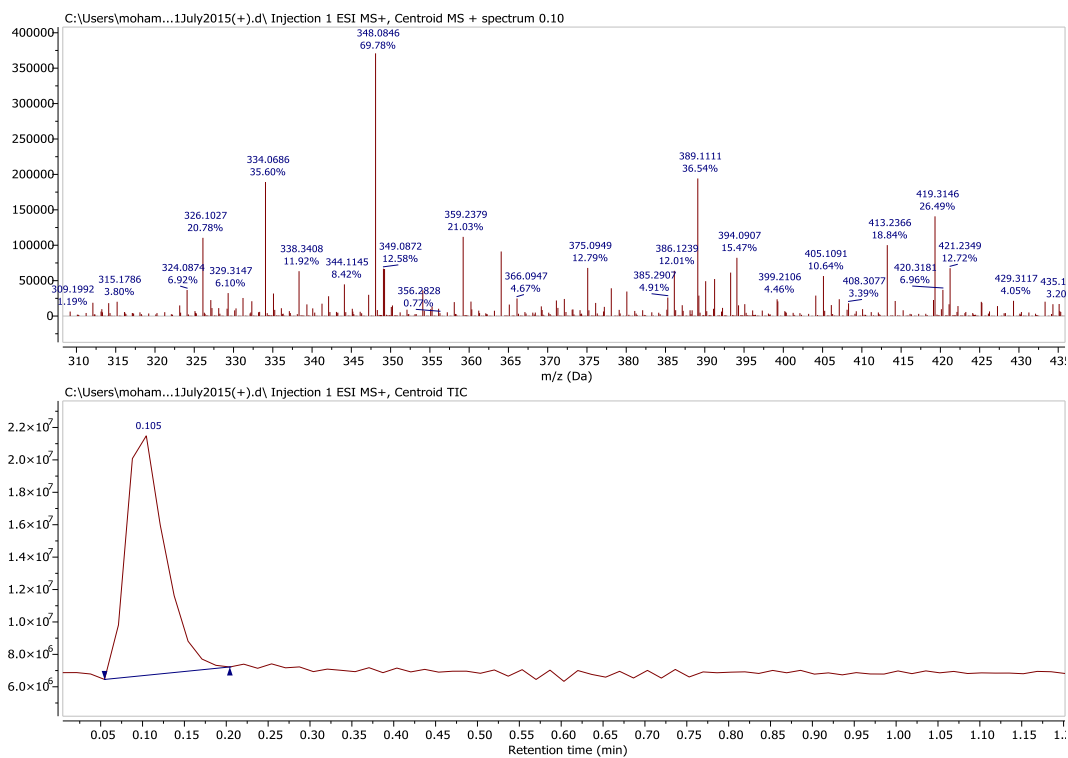


Figure S11: HRESI-MS spectrum of compound 2

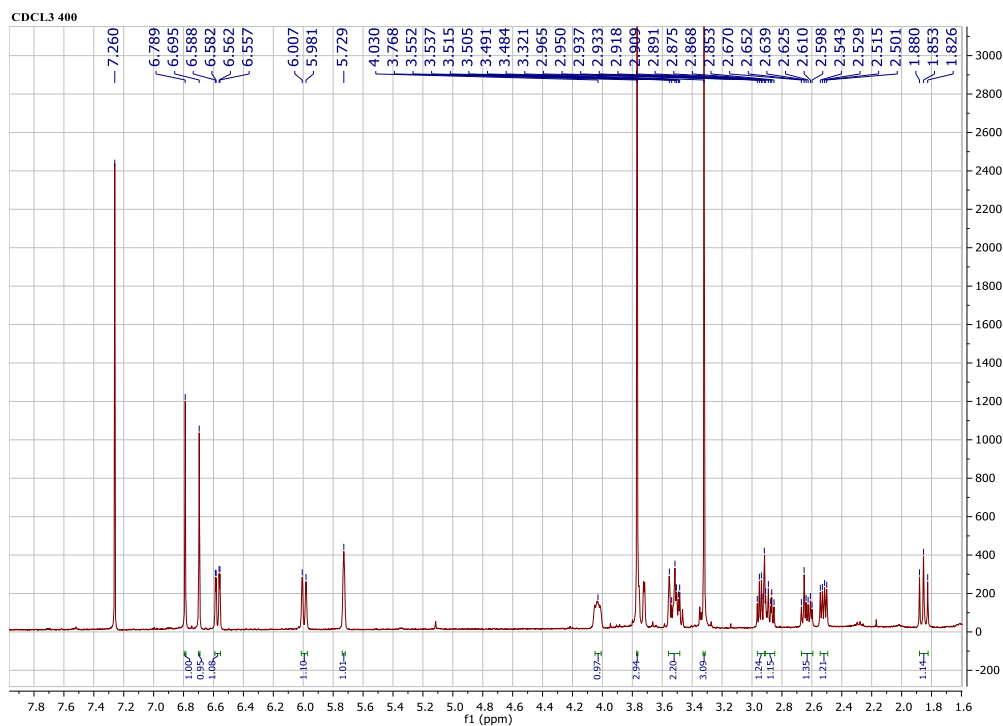


Figure S12: ¹H NMR spectrum of compound **3**

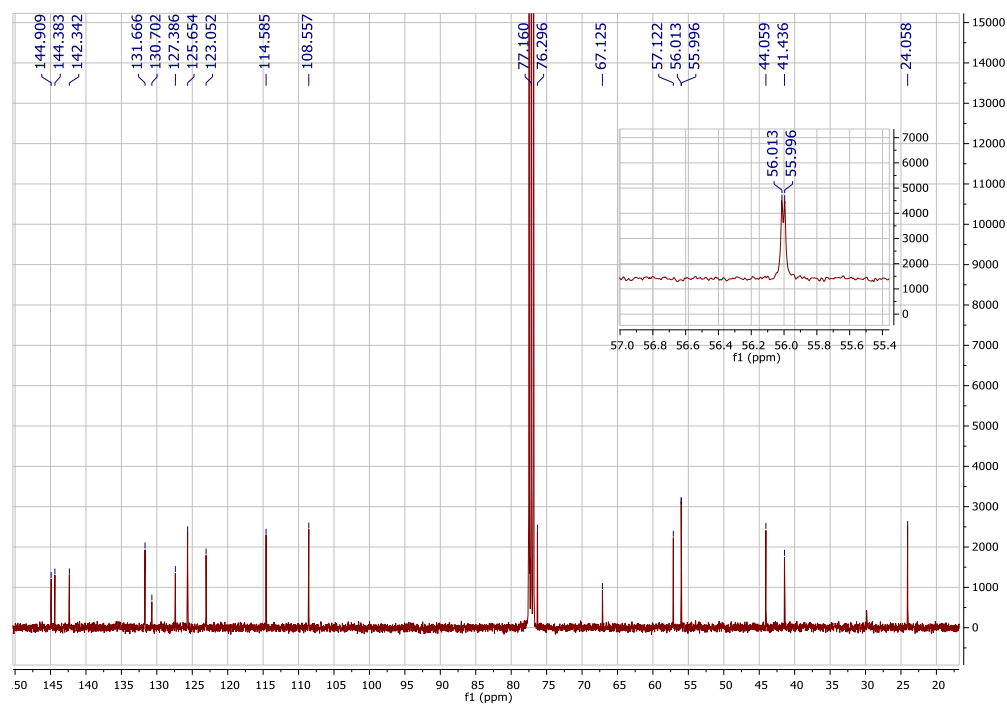


Figure S13: ¹³C NMR spectrum of compound **3**

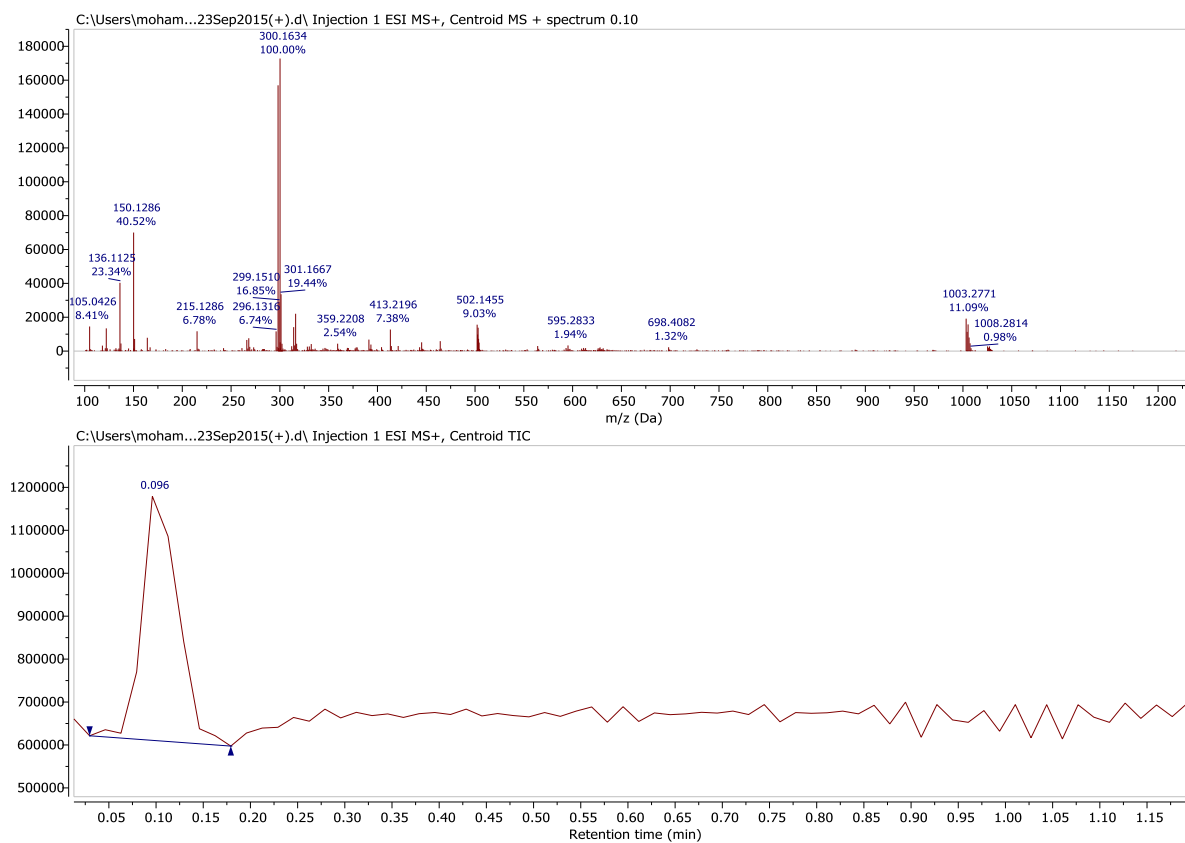


Figure S14: HRESI-MS spectrum of compound **3**

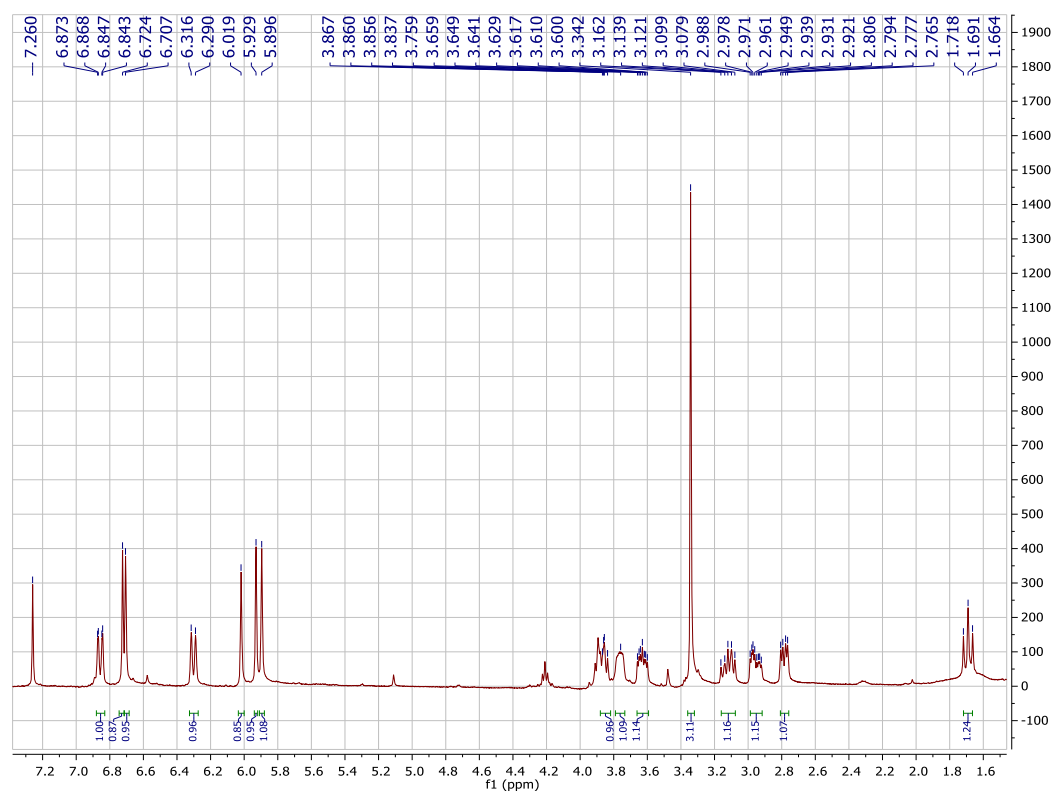


Figure S15: ¹H NMR spectrum of compound **4**

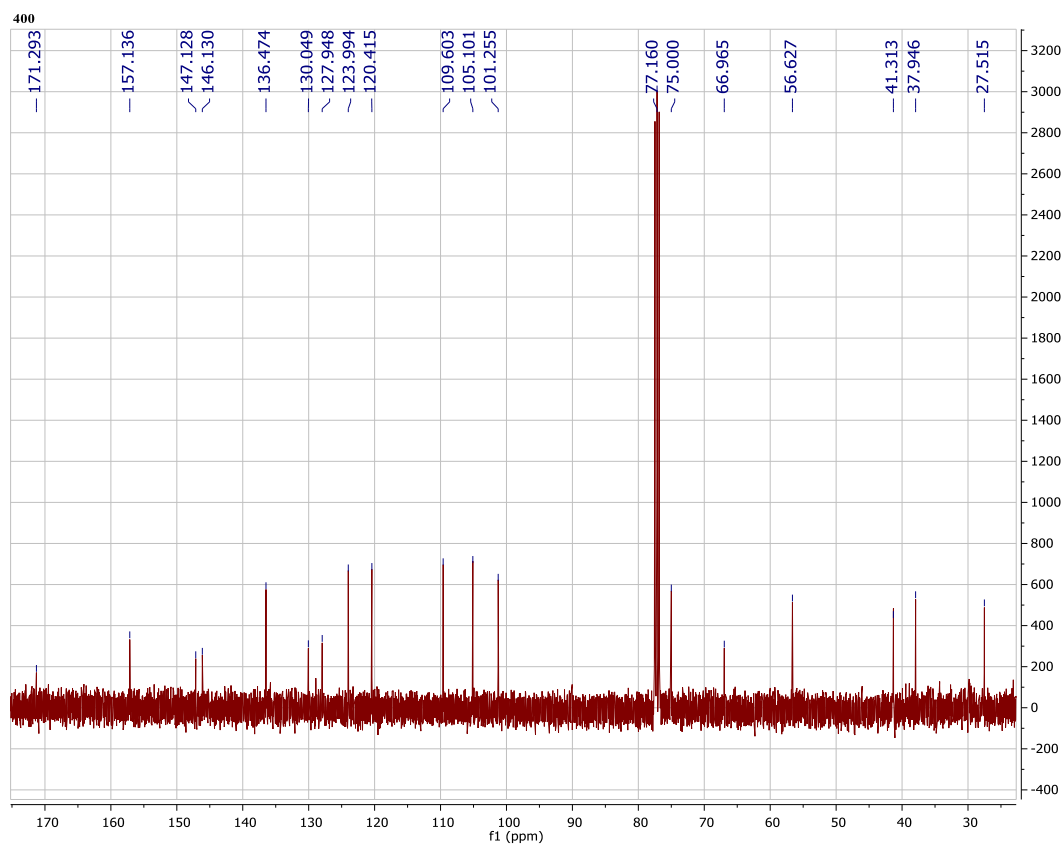


Figure S16: ¹³C NMR spectrum of compound **4**

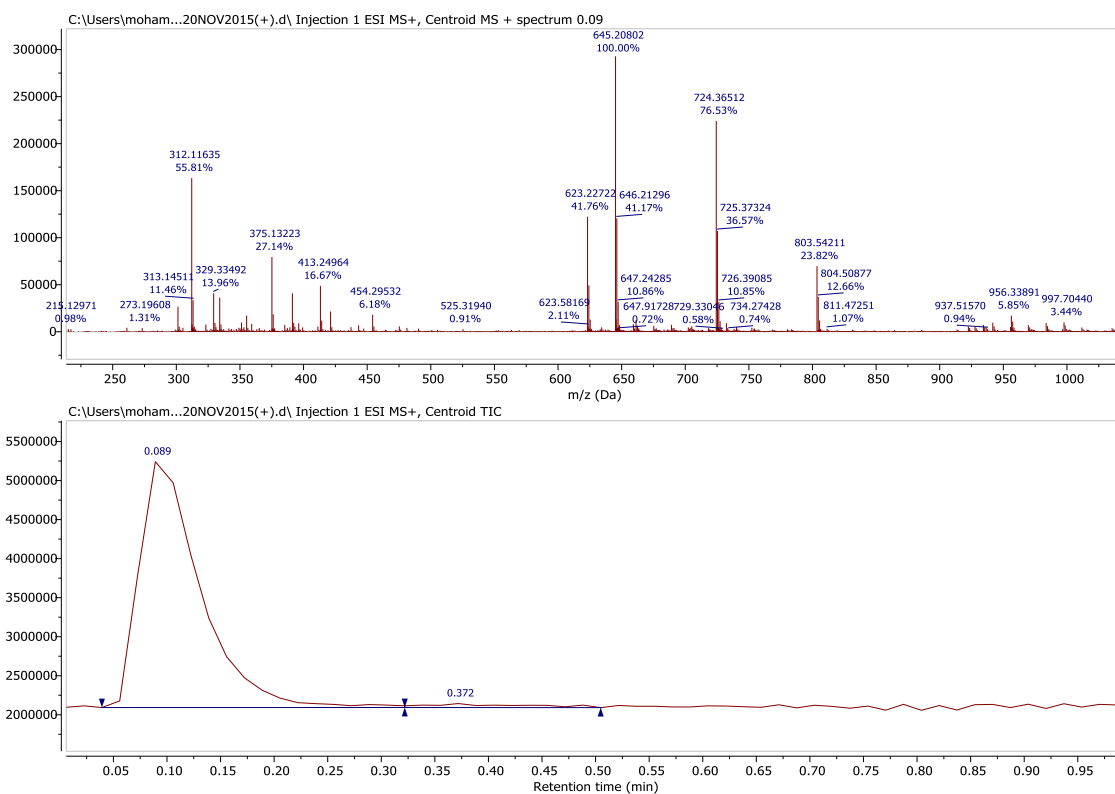


Figure S17: HRESI-MS spectrum of compound 4

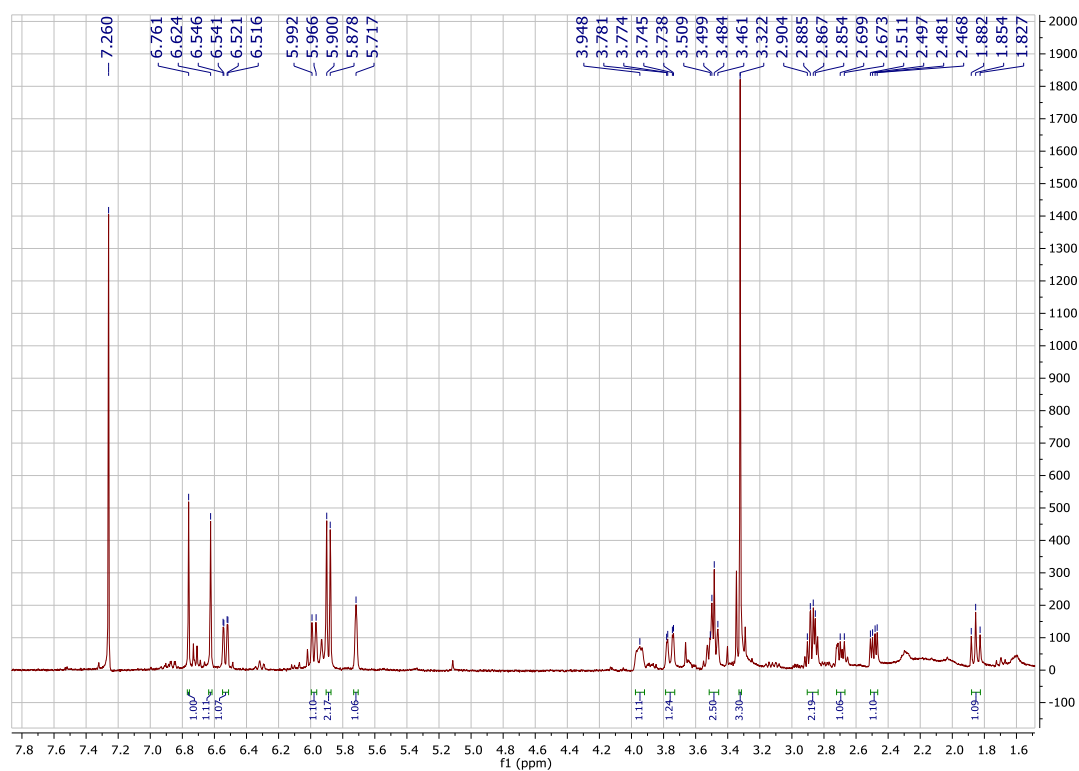


Figure S18: ^1H NMR spectrum of compound 5

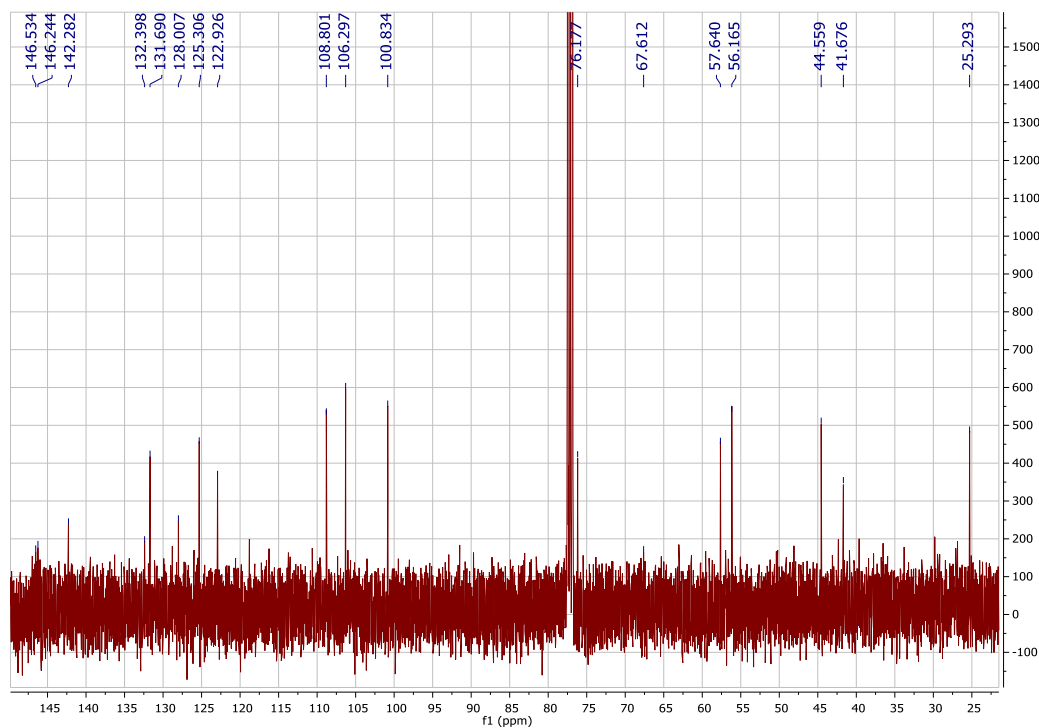


Figure S19: ^{13}C NMR spectrum of compound 5

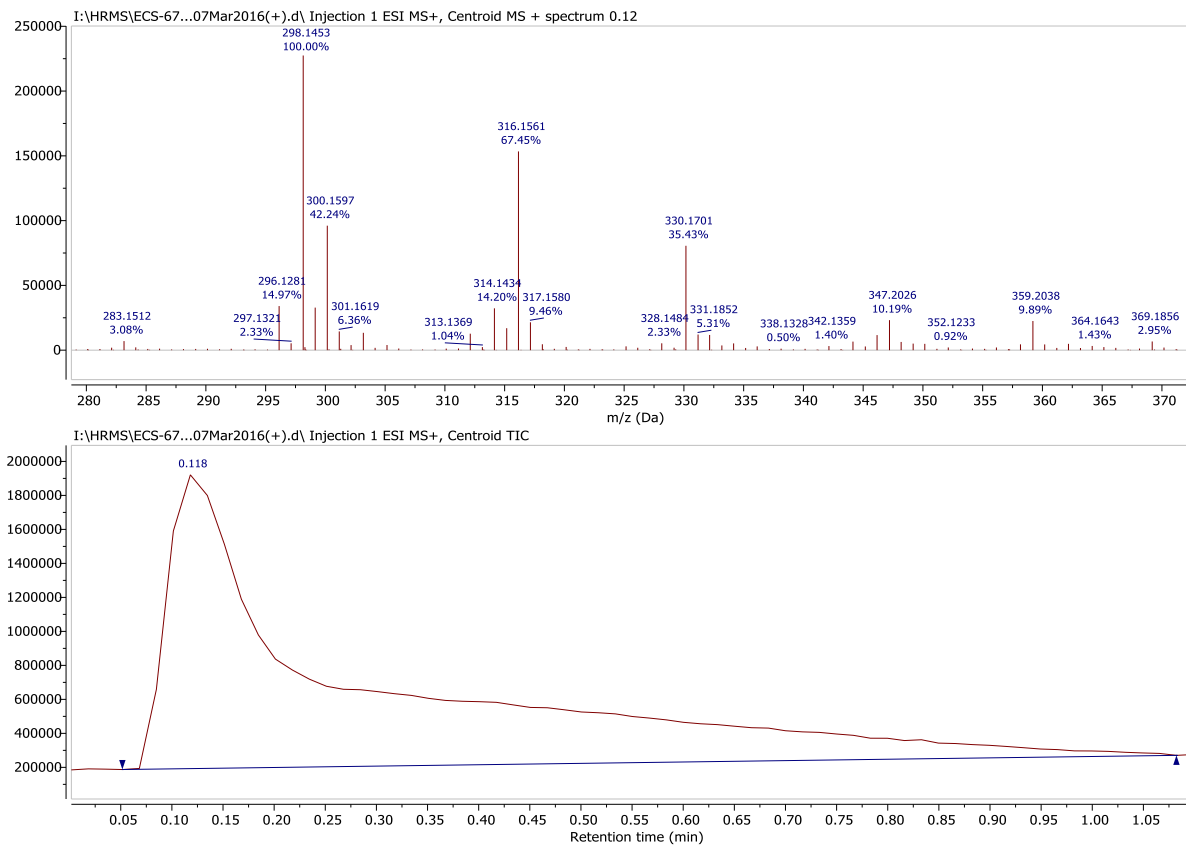


Figure S20: HRESI-MS spectrum of compound 5