

Three Chalconoids and a Pterocarpene from the Roots of Tephrosia aequilata

Yoseph Atilaw, Sandra Duffy, Matthias Heydenreich, Lois Muiva-Mutisya, Vicky M. Avery, Máté Erdélyi, Abiy Yenesew

Table of contents

Figure	Content	Page
Fig. S1 –S6	¹ H; ¹³ C; COSY; NOESY; HSQC & HMBC of compound 1	S2-S7
Fig. S7	HRMS of compound 1	S8
Fig. S8	UV spectrum of compound 1	S9
Fig. S9 –S14	¹ H; ¹³ C; COSY; NOESY; HSQC & HMBC of compound 2	S10-S15
Fig. S15	HRMS of compound 2	S16
Fig. S16	UV spectrum of compound 2	S17
Fig. S17-S22	¹ H; ¹³ C; COSY;NOESY; HSQC & HMBC of compound 3	S18-S23
Fig. S23	HRMS of compound 3	S24
Fig. S24	UV spectrum of compound 3	S25
Fig. S25-S29	¹ H; ¹³ C; COSY; HSQC & HMBC of compound 4	S26-S30
Fig. S30	HRMS of compound 4	S31
Fig. S31	UV spectrum of compound 4	S32

YAA_23K.11.fid
 YAA_23K CDCl3 800#2 20150613
 M_1H1D CDCl3 /opt/data/mate/nmr mate 40

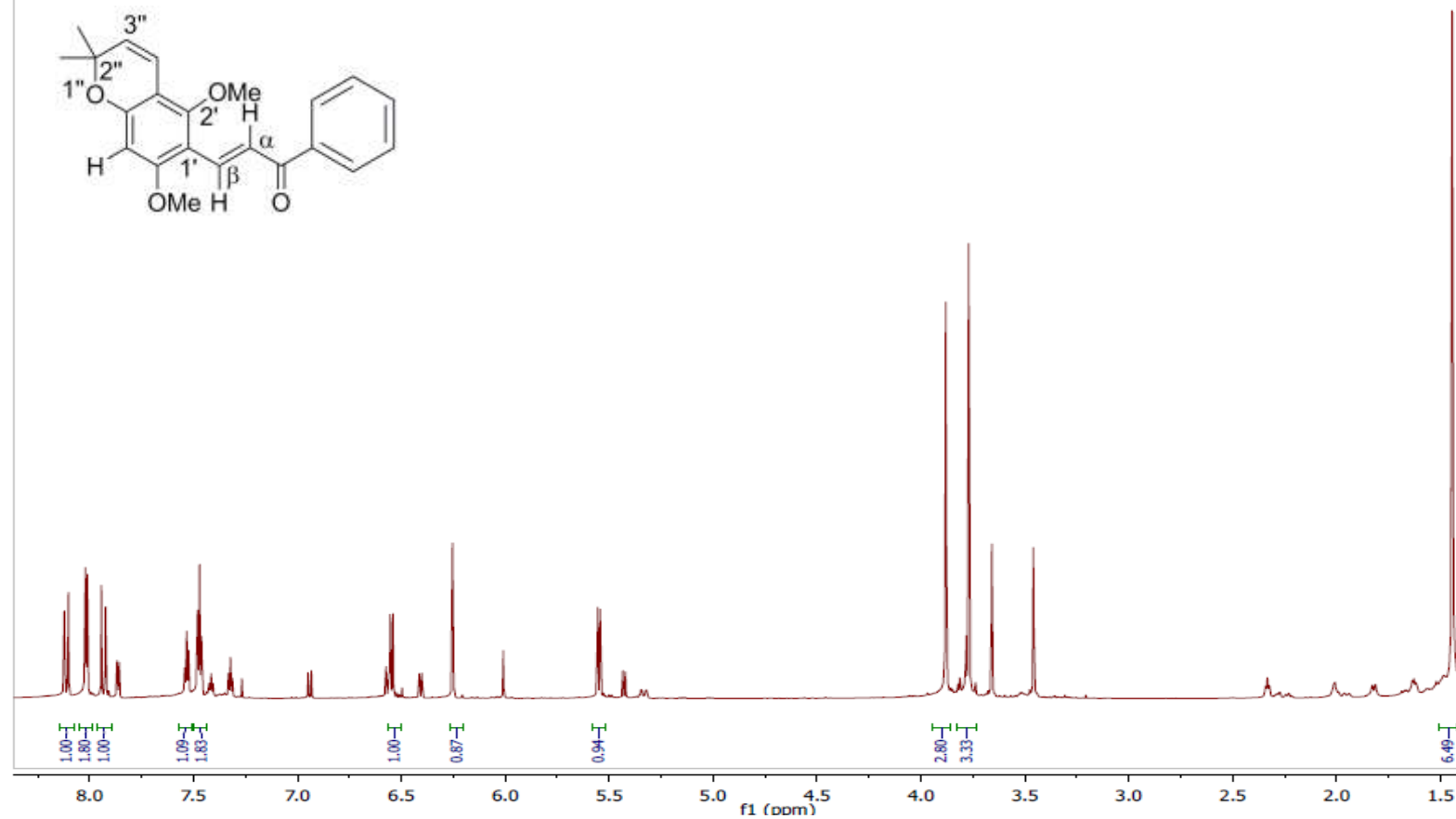


Fig. S1: ¹H NMR spectrum of compound 1 (800 MHz; CDCl₃)

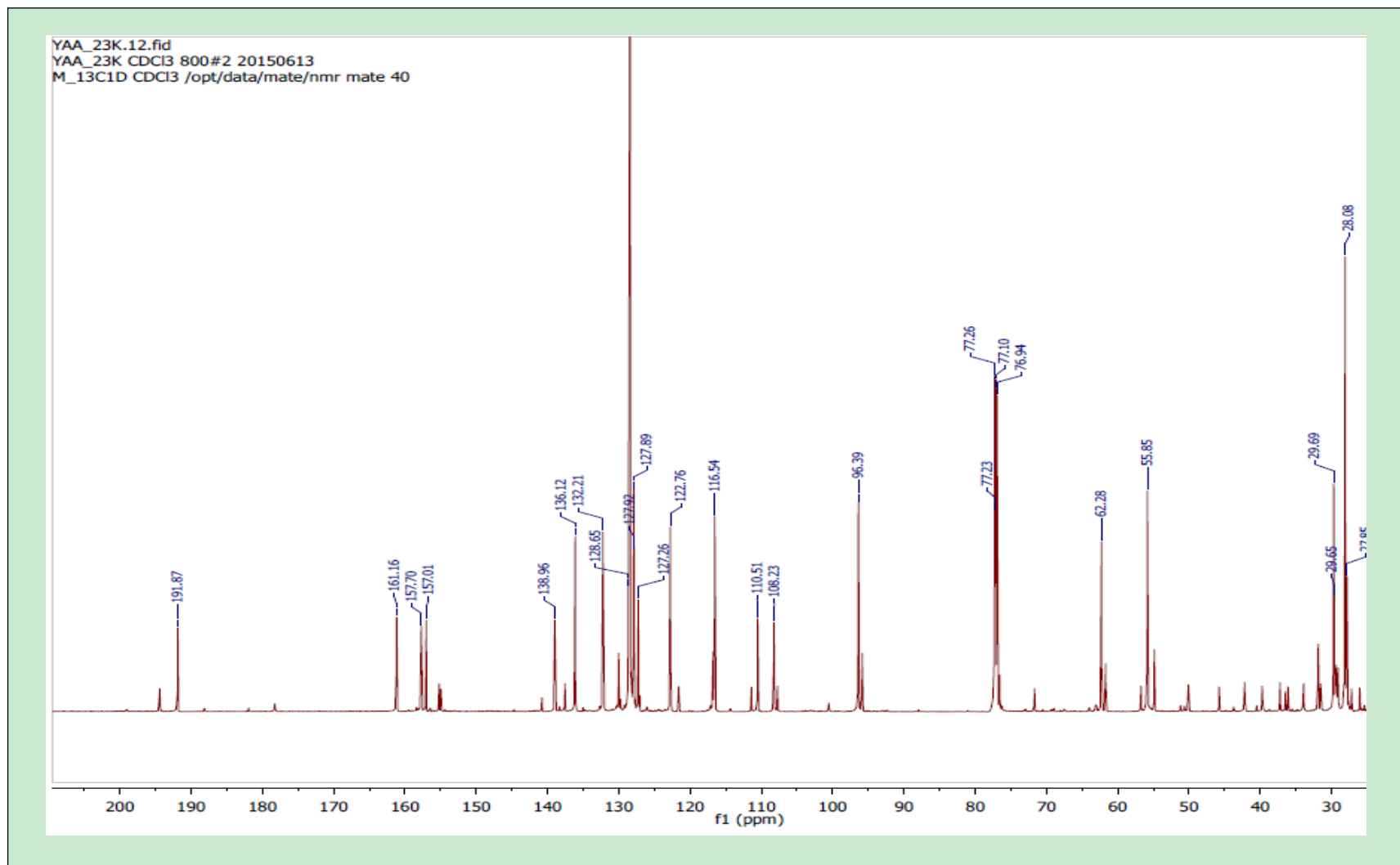


Fig. S2: ¹³C NMR spectrum of compound **1** (200 MHz; CDCl₃)

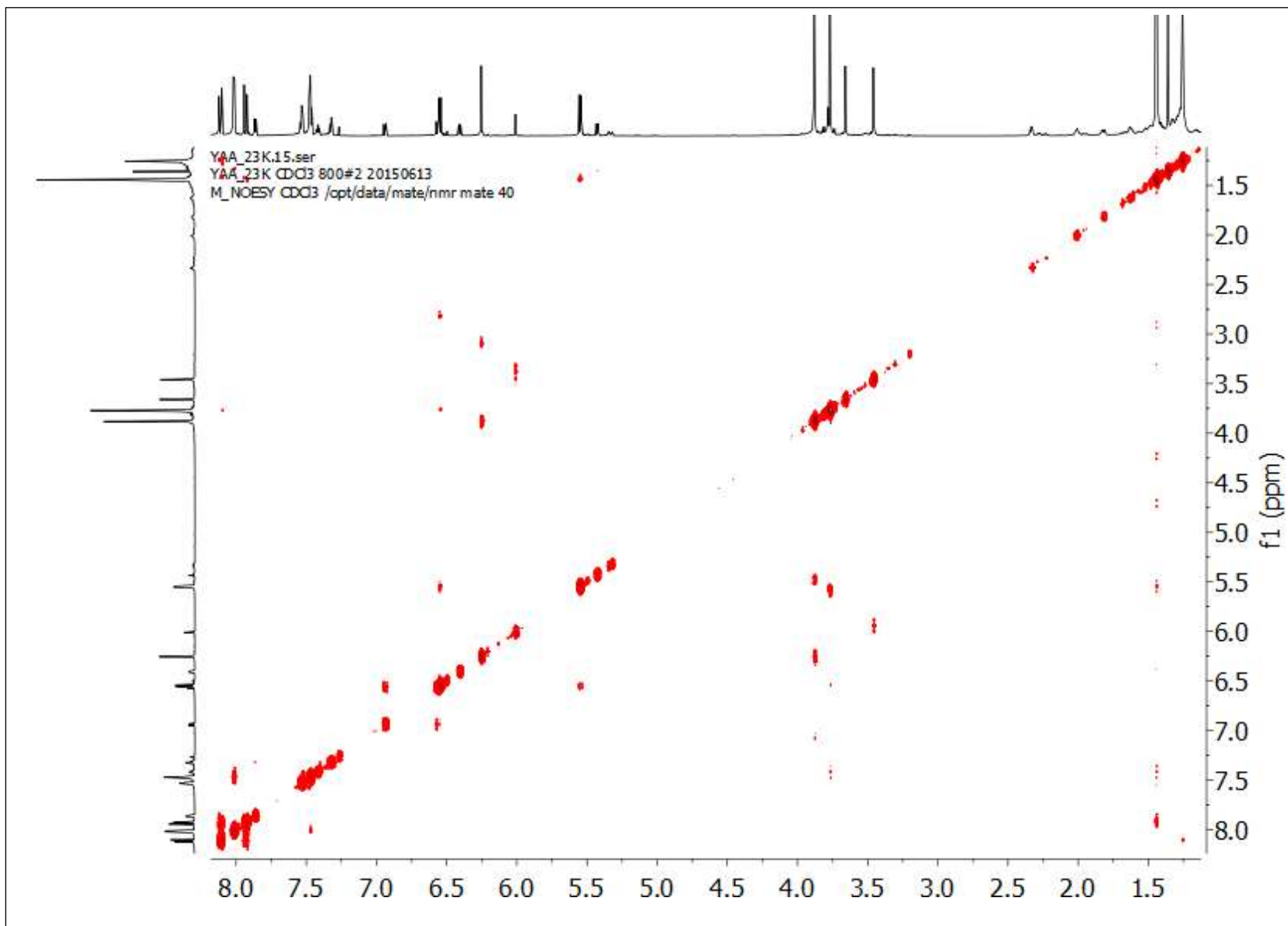


Fig. S3: NOESY spectrum of compound **1** (800 MHz; CDCl₃)

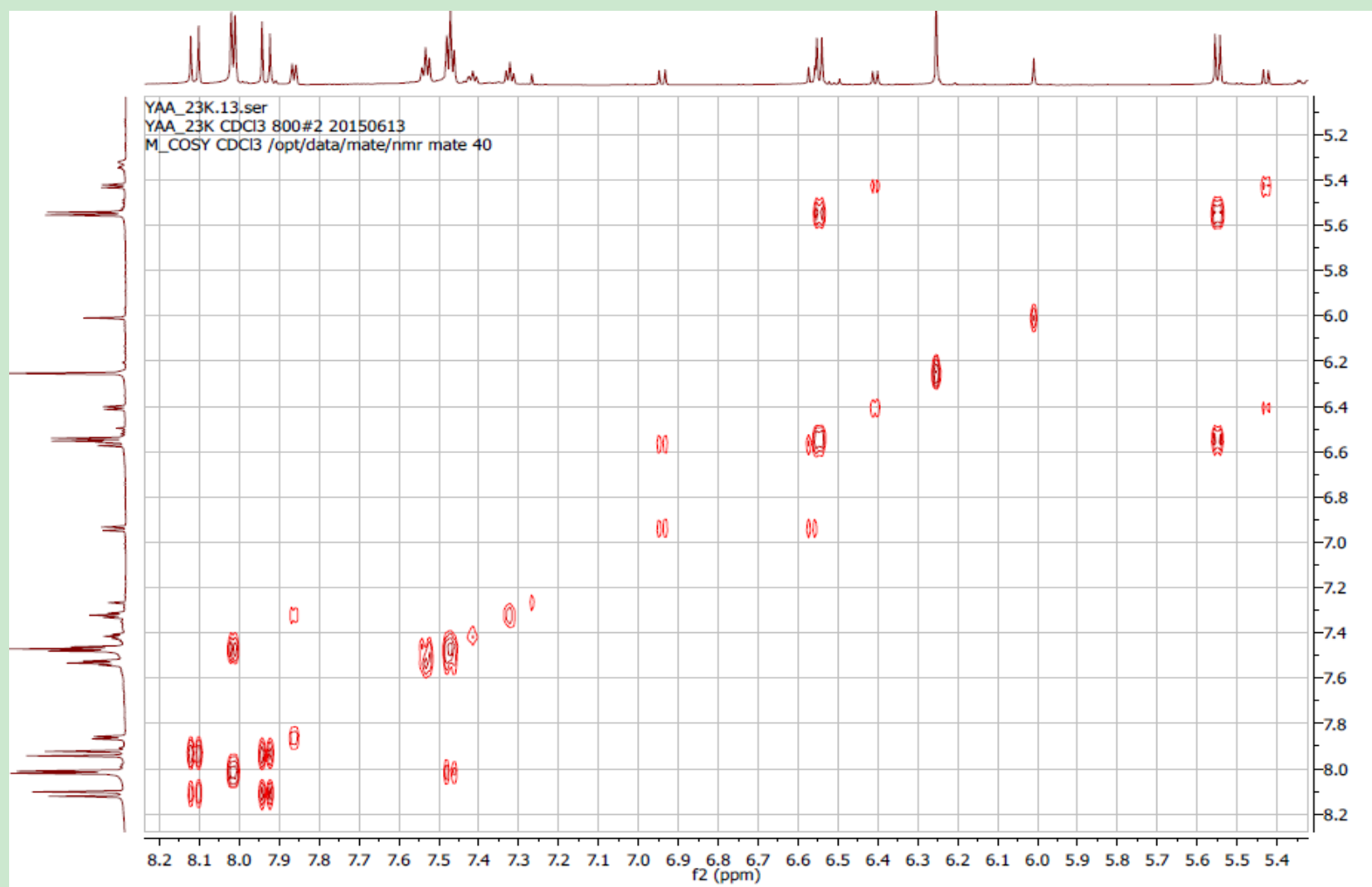


Fig. S4: COSY spectrum of compound **1** (800 MHz; CDCl₃)

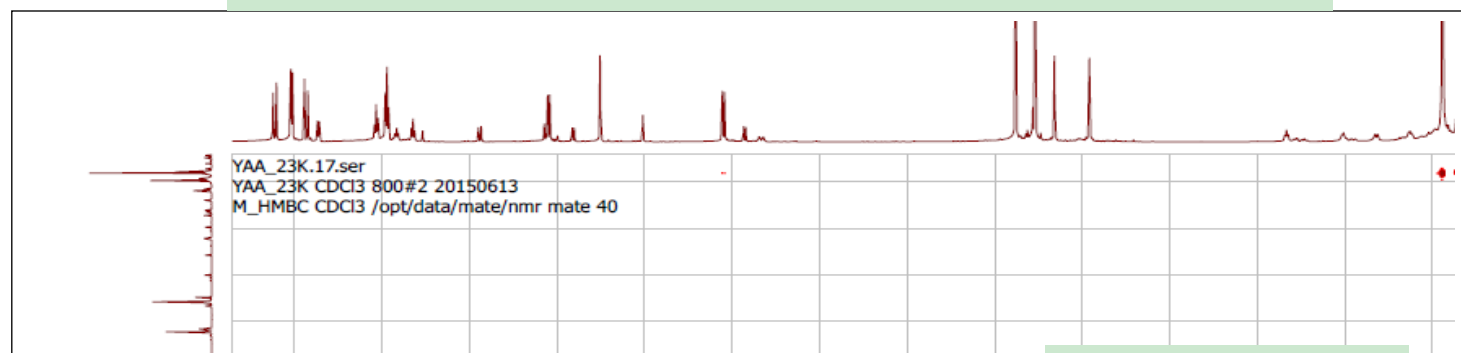
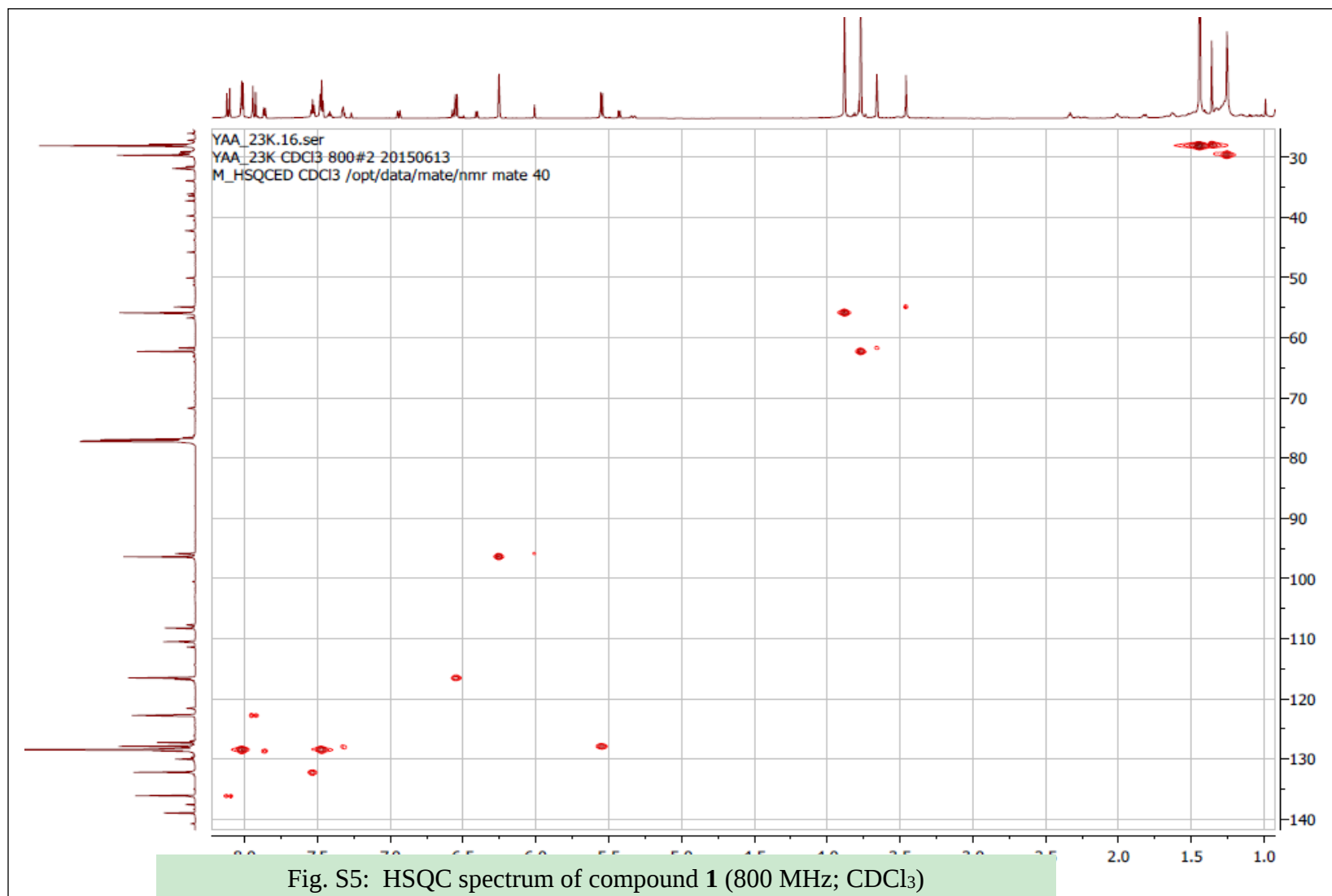


Fig. S6: HMBC spectrum of compound **1** (800 MHz; CDCl₃)

Yoseph_01 #162-165 RT: 0.60-0.61 AV: 4 NL: 6.72E5
T: + c Full ms [35.00-500.00]

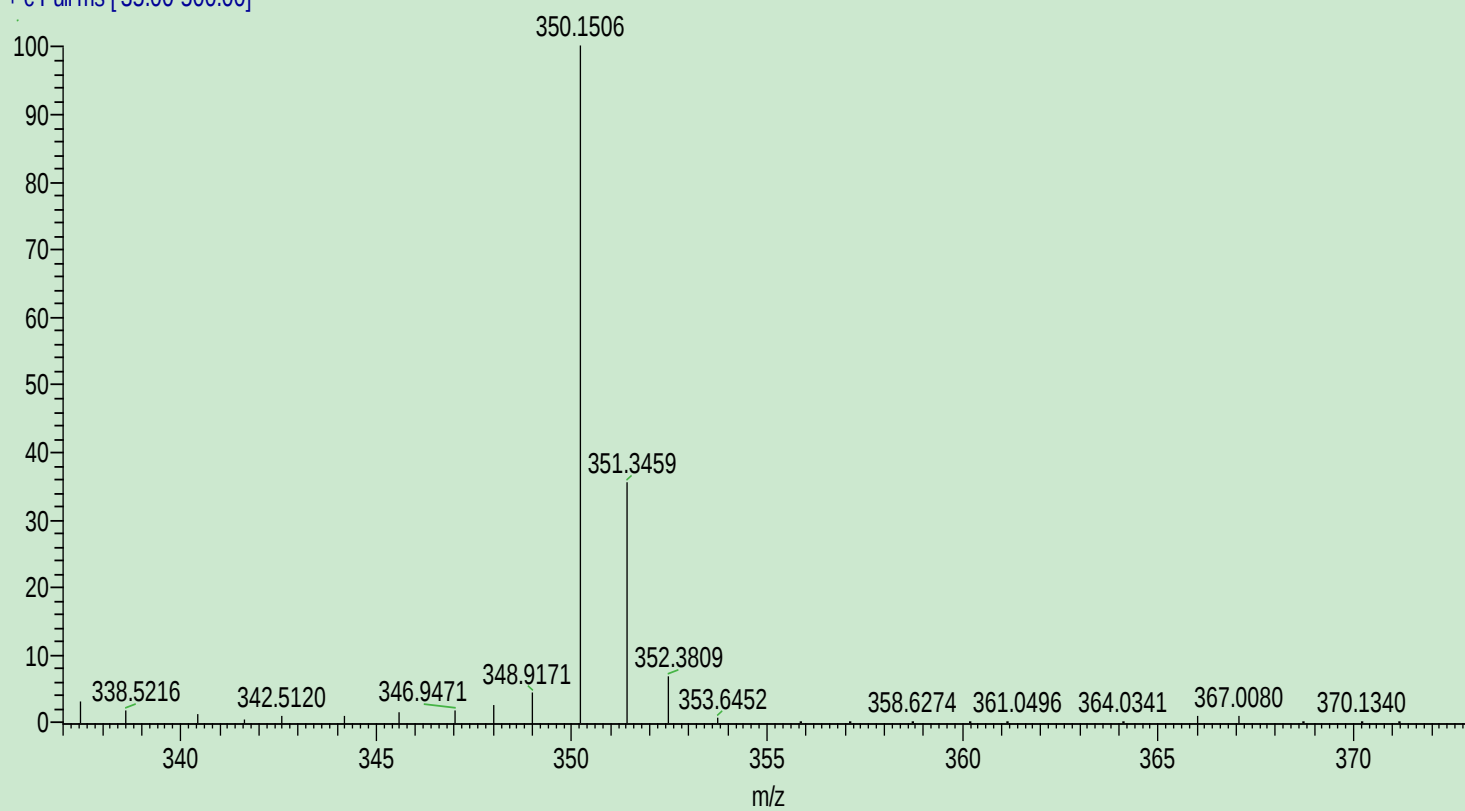


Fig. S7: HRMS of compound 1

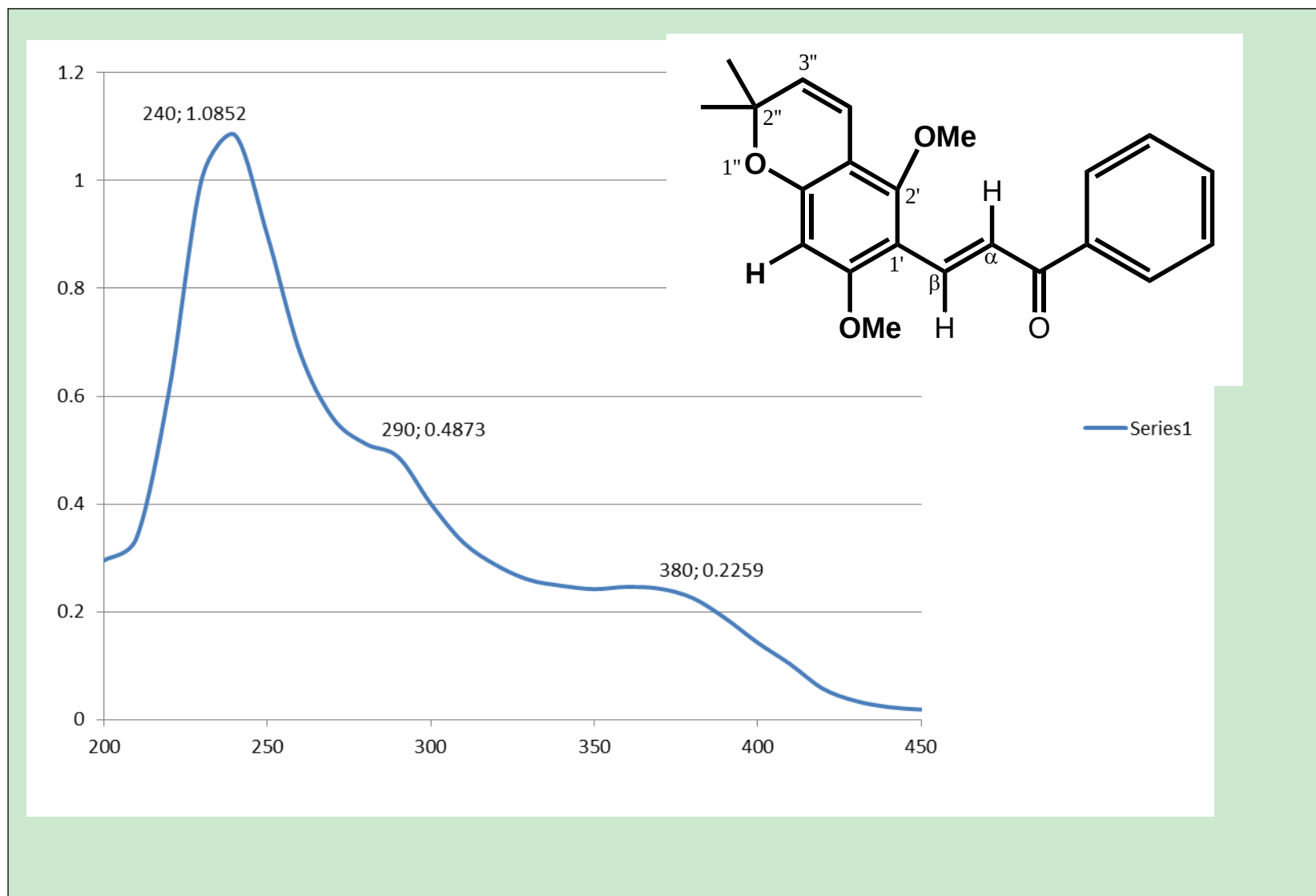


Fig. S8: UV spectrum of compound 1.

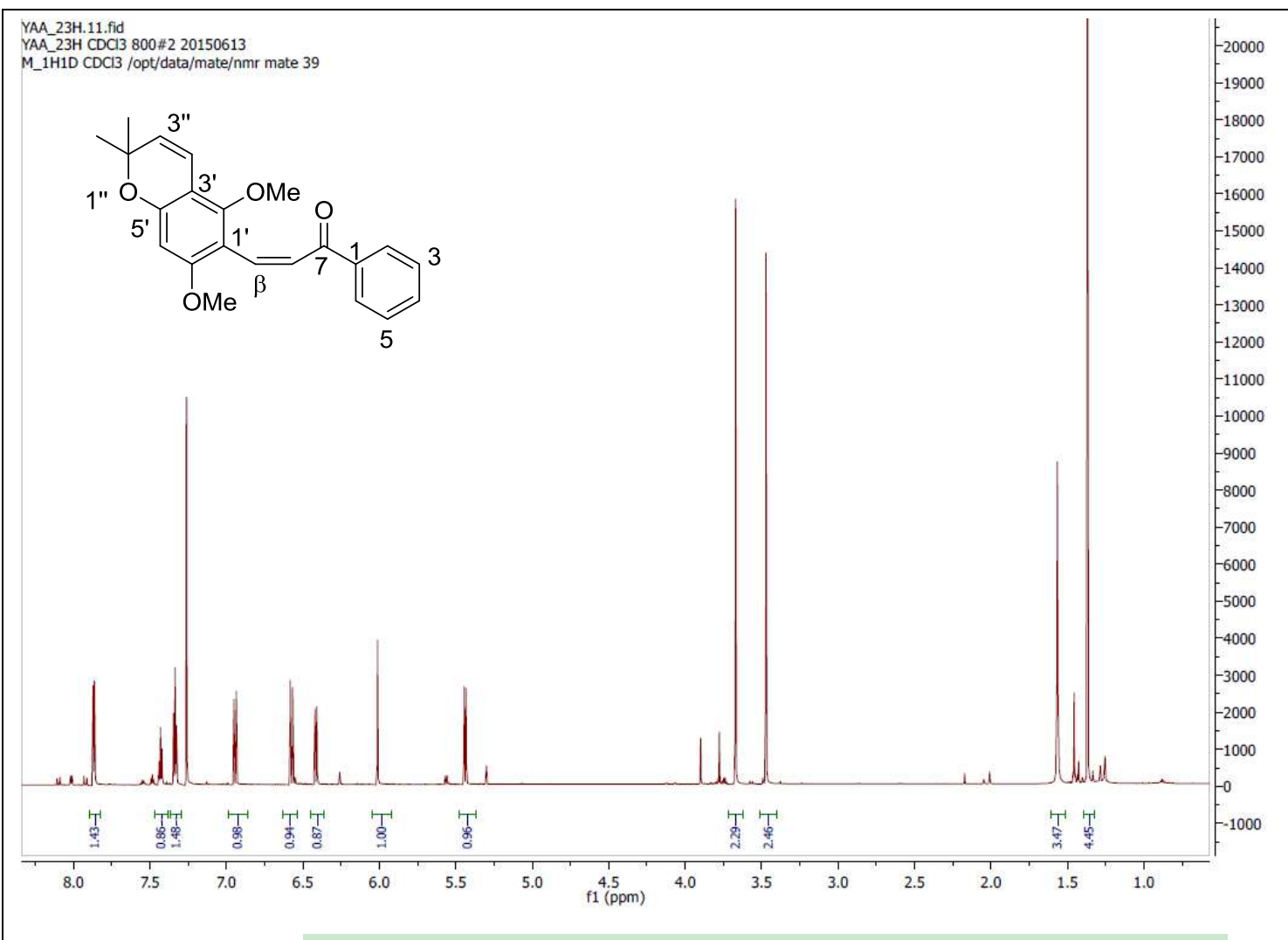


Fig. S9: ^1H NMR spectrum of compound 2 (800 MHz; CDCl_3)

YAA_23H.12.fid
YAA_23H CDCl3 800#2 20150613
M_13C1D CDCl3 /opt/data/mate/nmr mate 39

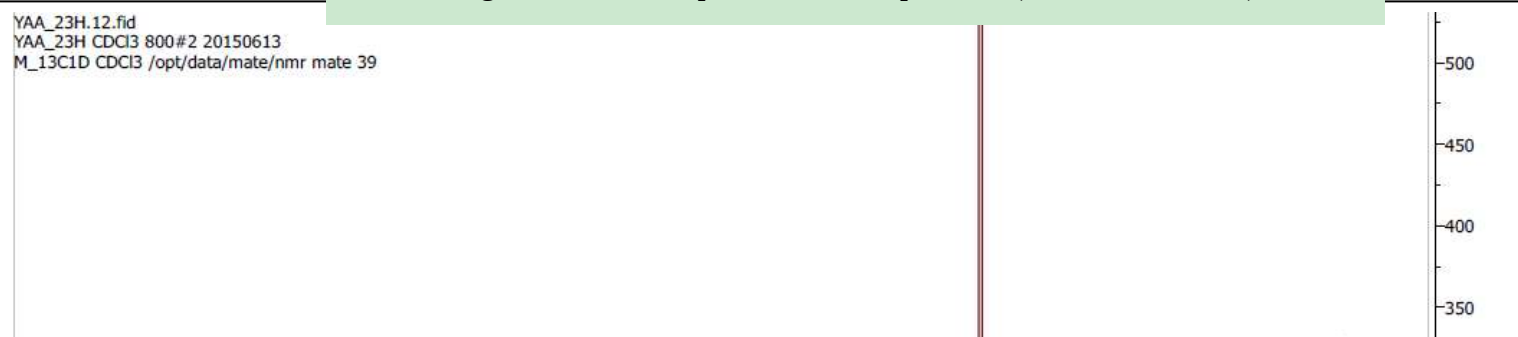


Fig. S10: ^{13}C NMR spectrum of compound 2 (200 MHz; CDCl_3)

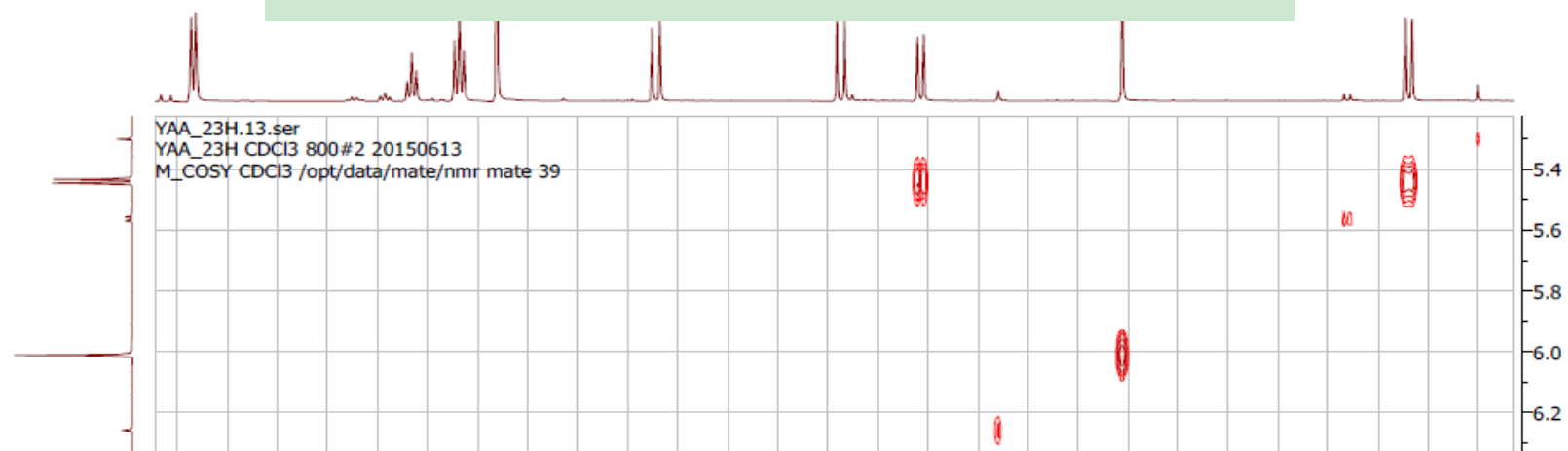


Fig. S11: COSY spectrum of compound 2 (800 MHz; CDCl₃).

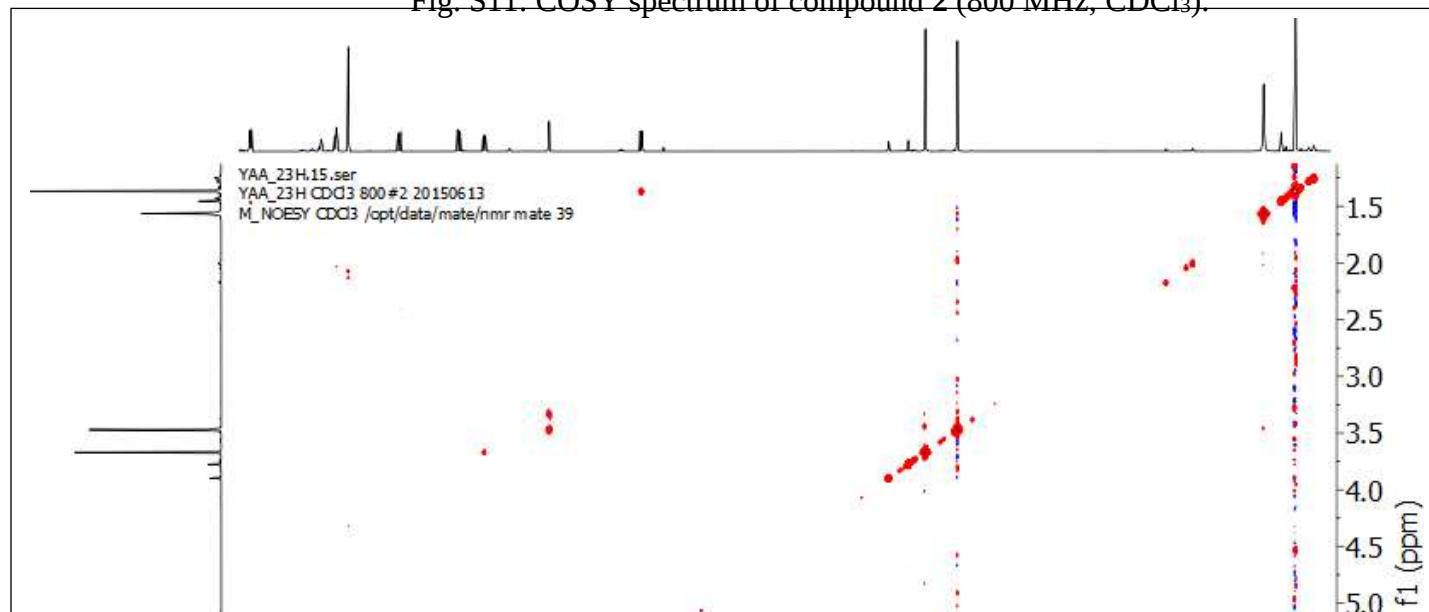


Fig. S12: NOESY spectrum of compound 2 (800 MHz; CDCl₃).

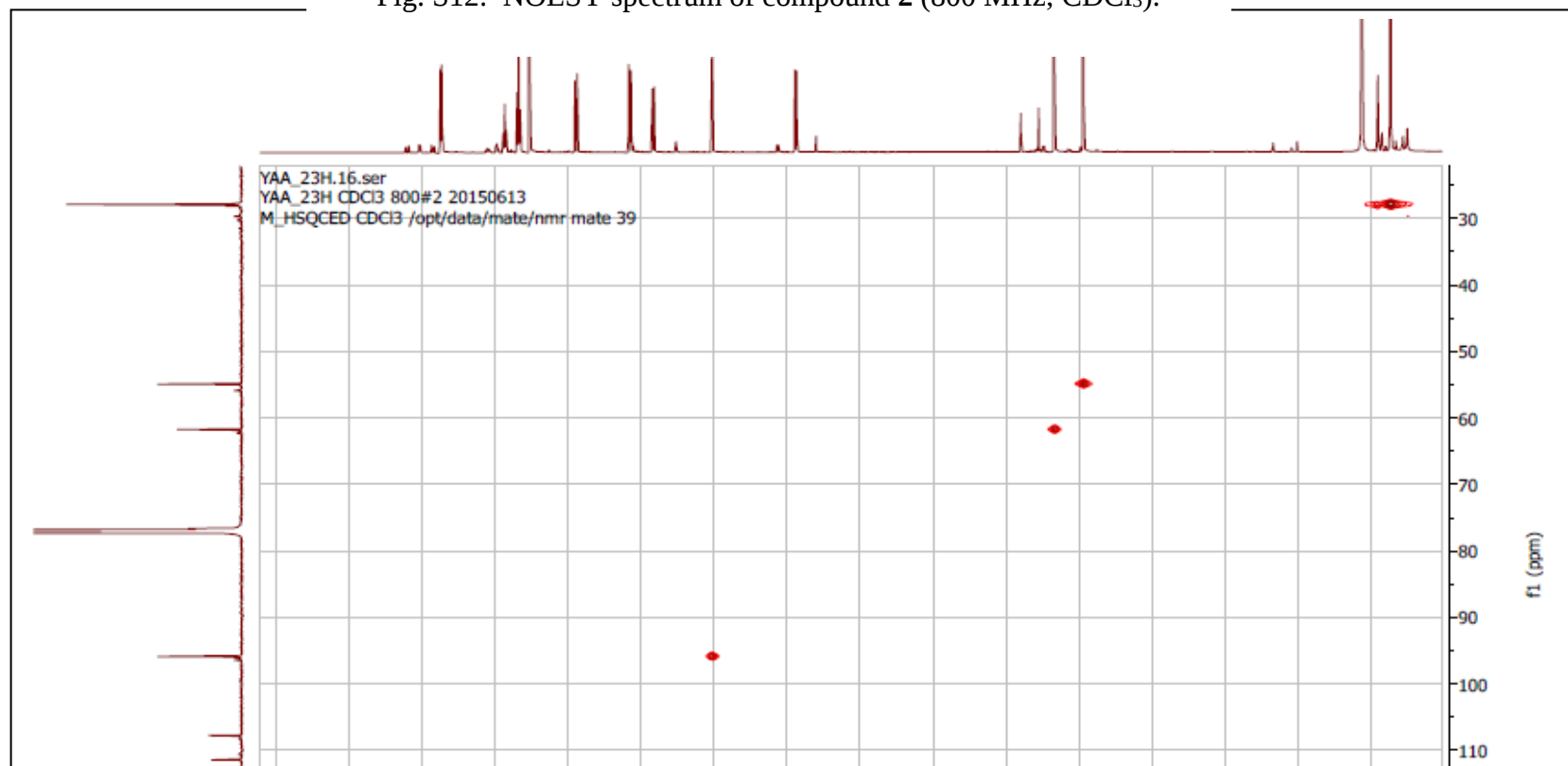
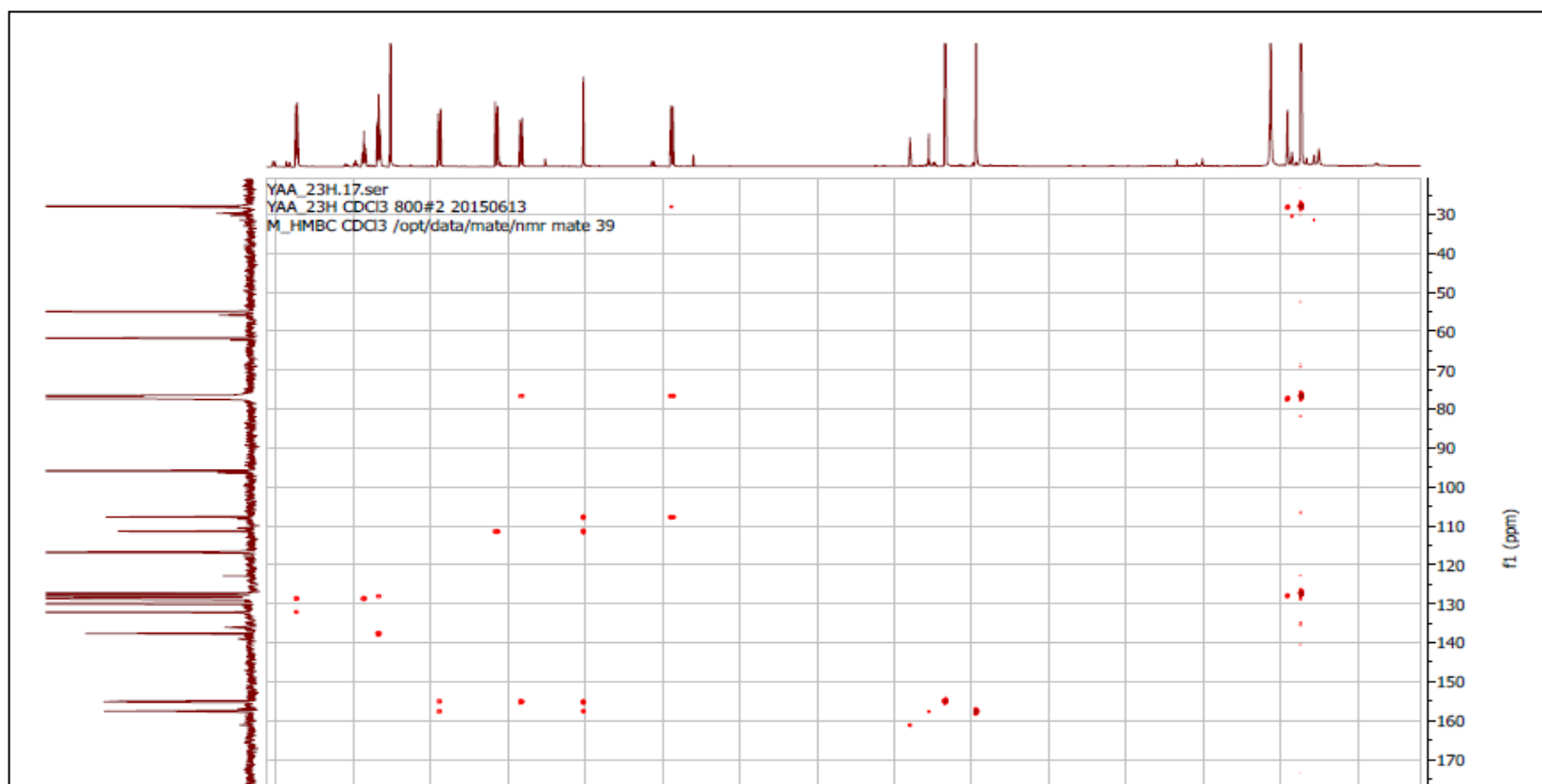


Fig. S13: HSQC spectrum of compound 2 (800 MHz; CDCl₃)



+TOF MS: 5.001 min from Sample 3 (YAA-23H) of MATE150707.wiff
a=3.56385589873017050e-004, t0=-3.07691309222063860e+001 R; (Turbo Spray)

WIDA: 299.0 Count

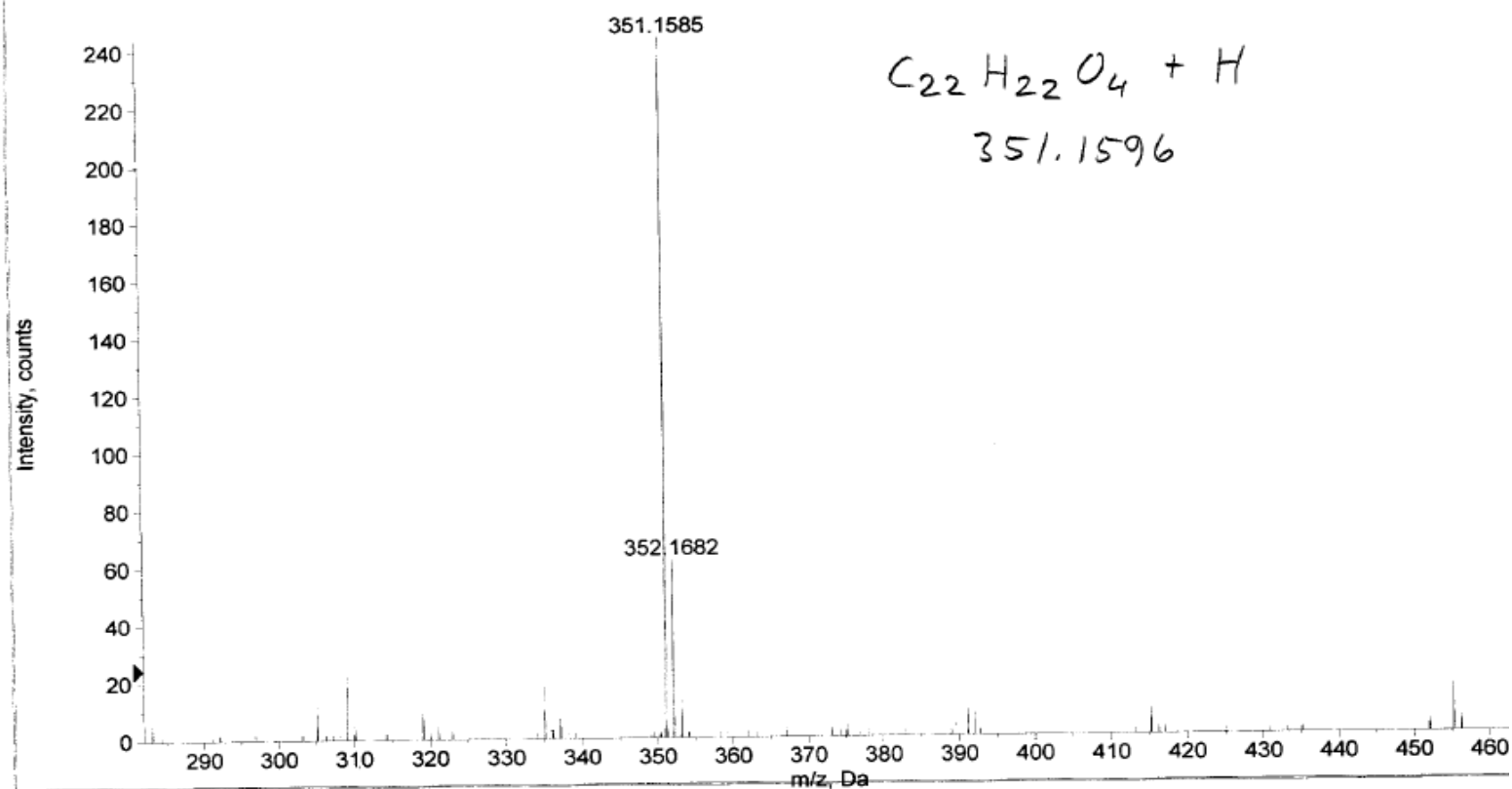


Fig. S15: HRMS of compound 2.

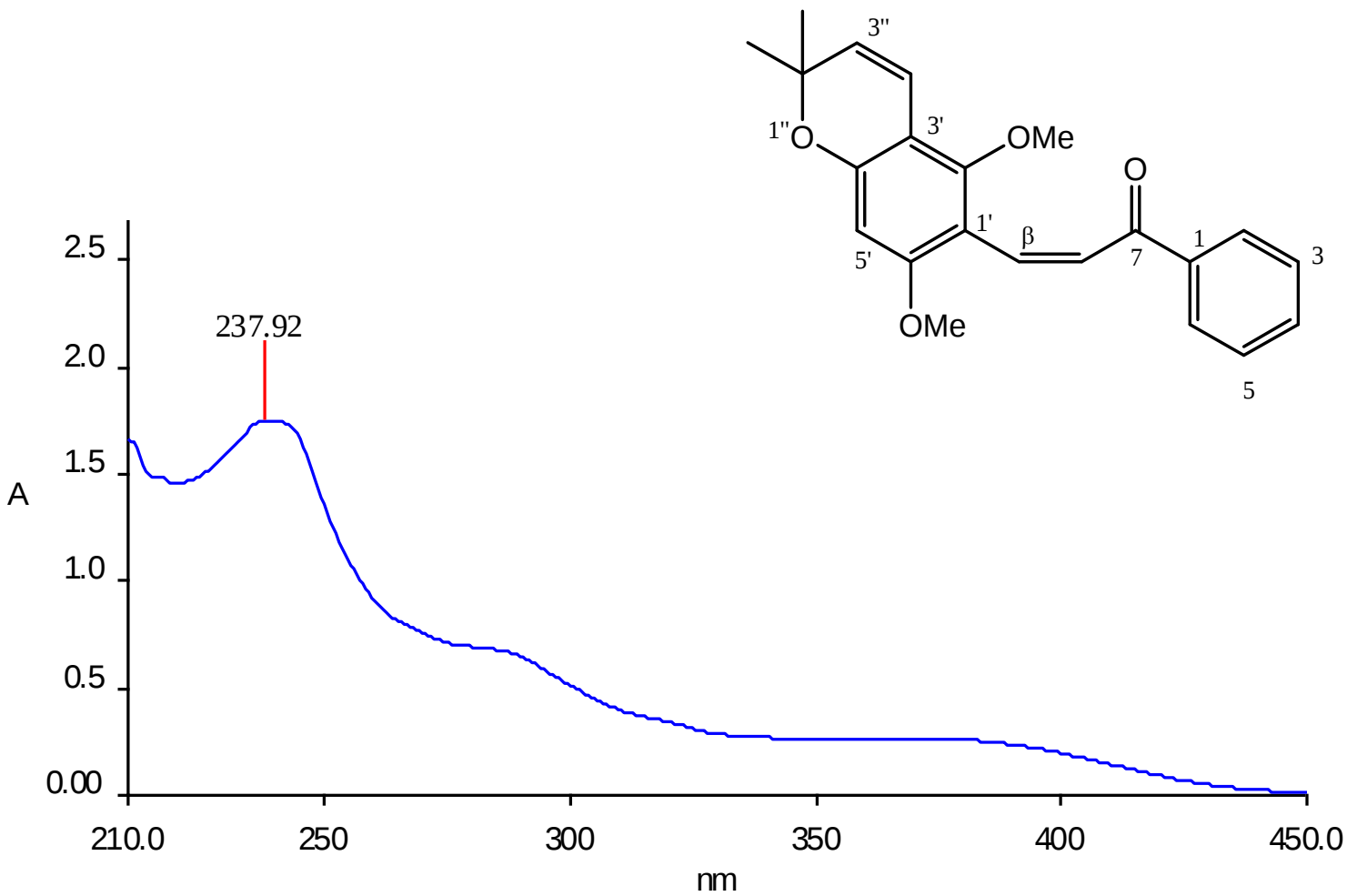
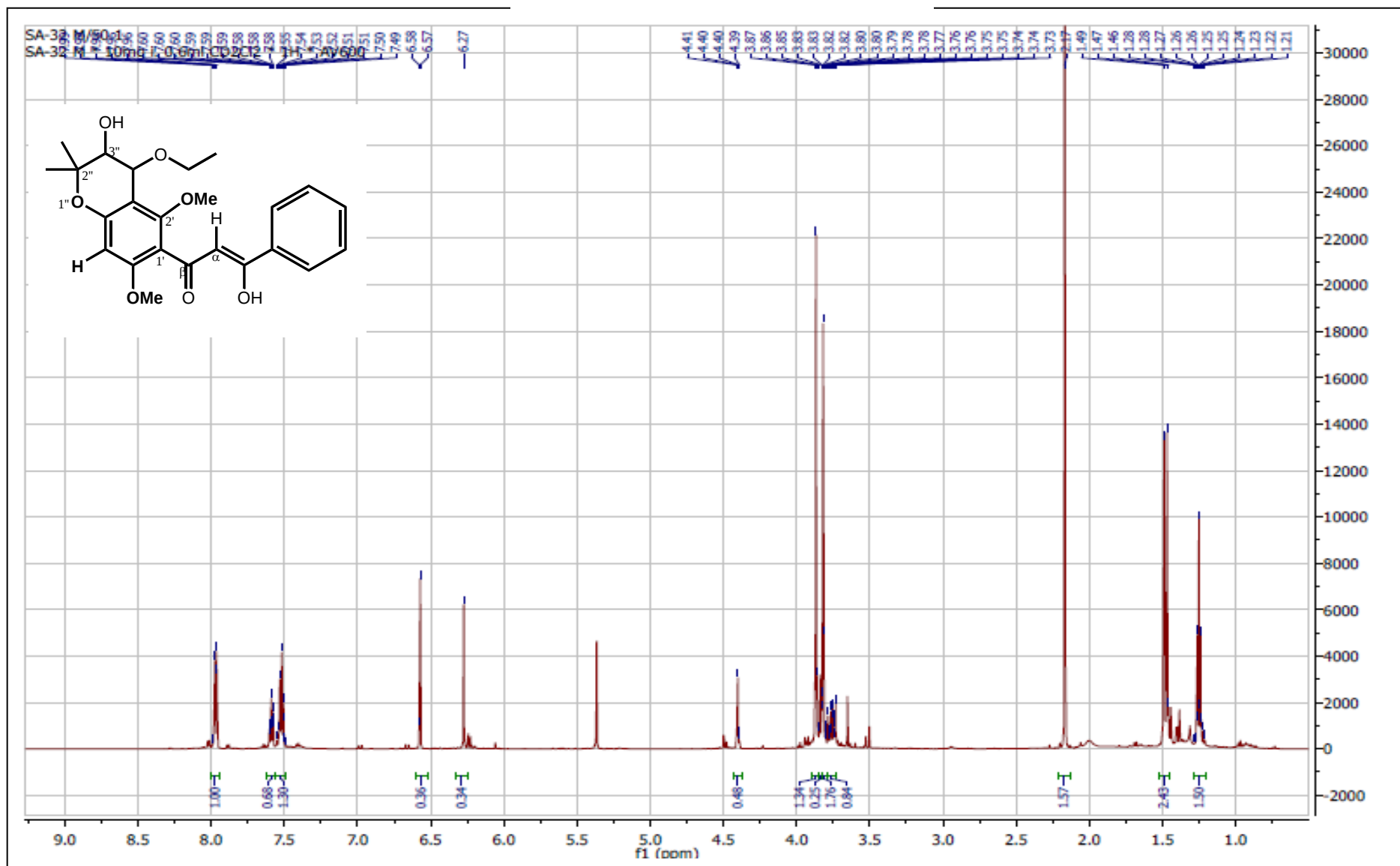


Fig. S16: UV-Vis of compound 2.



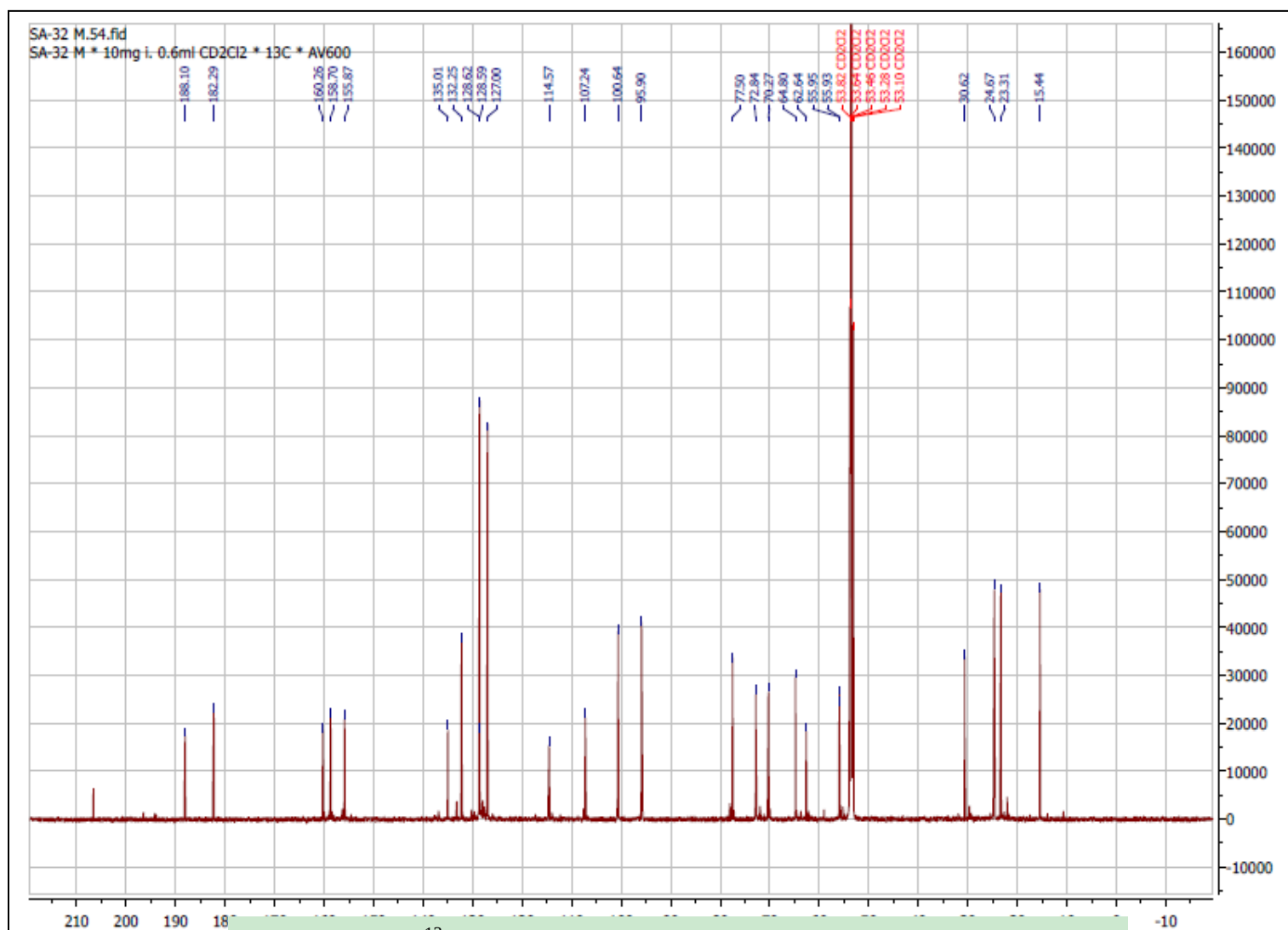


Fig. S18: ¹³C NMR spectrum of compound 3 (600 MHz; CD₂Cl₂).



Fig. S19: COSY spectrum of compound **3** (600 MHz; CD₂Cl₂)

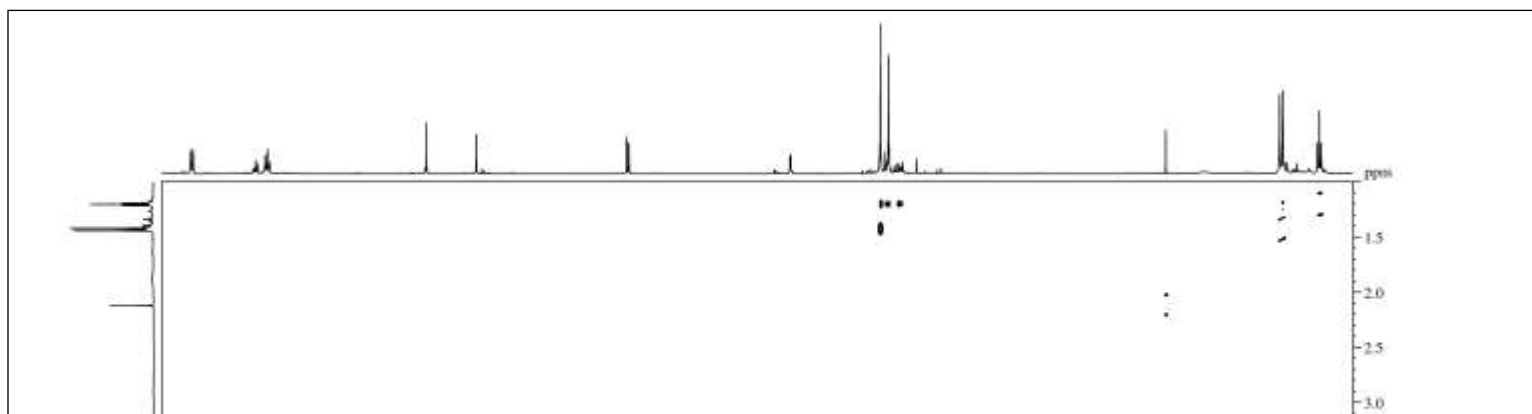


Fig. S20: NOESY spectrum of compound **3** (600 MHz; CD₂Cl₂)

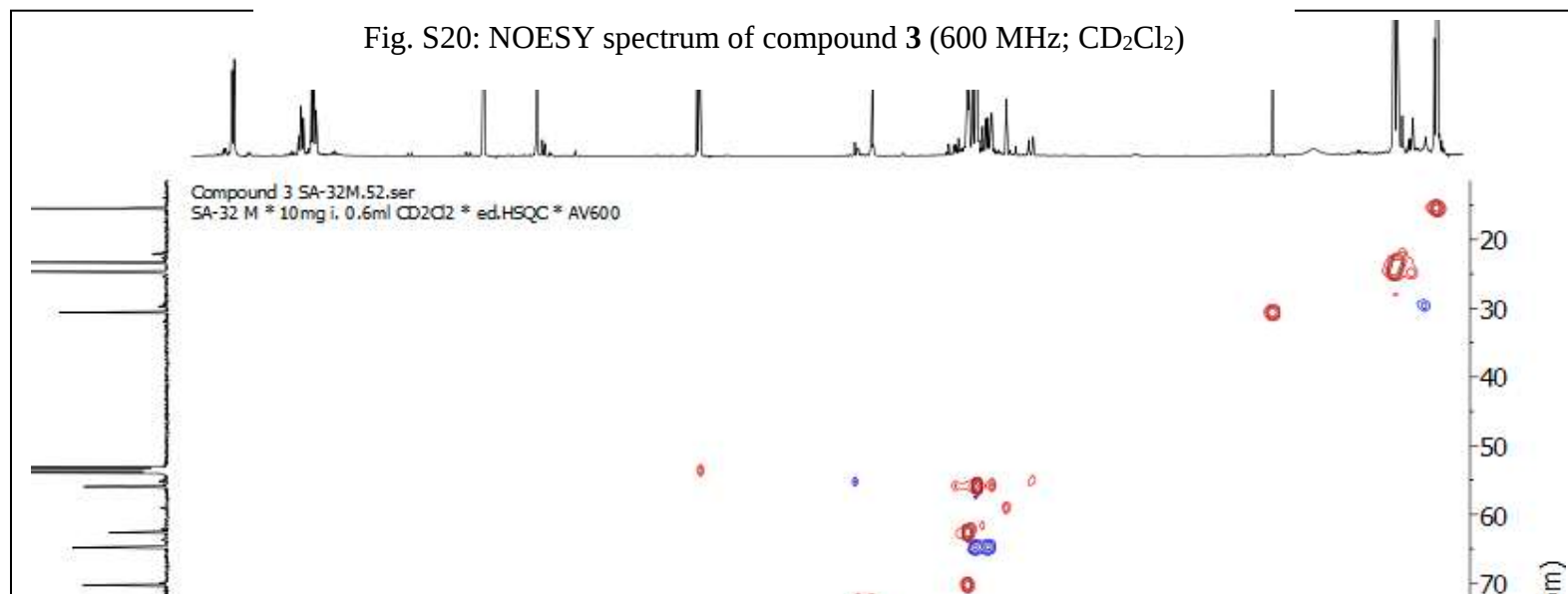


Fig. S21: edited HSQC spectrum of compound **3** (600 MHz; CD₂Cl₂)

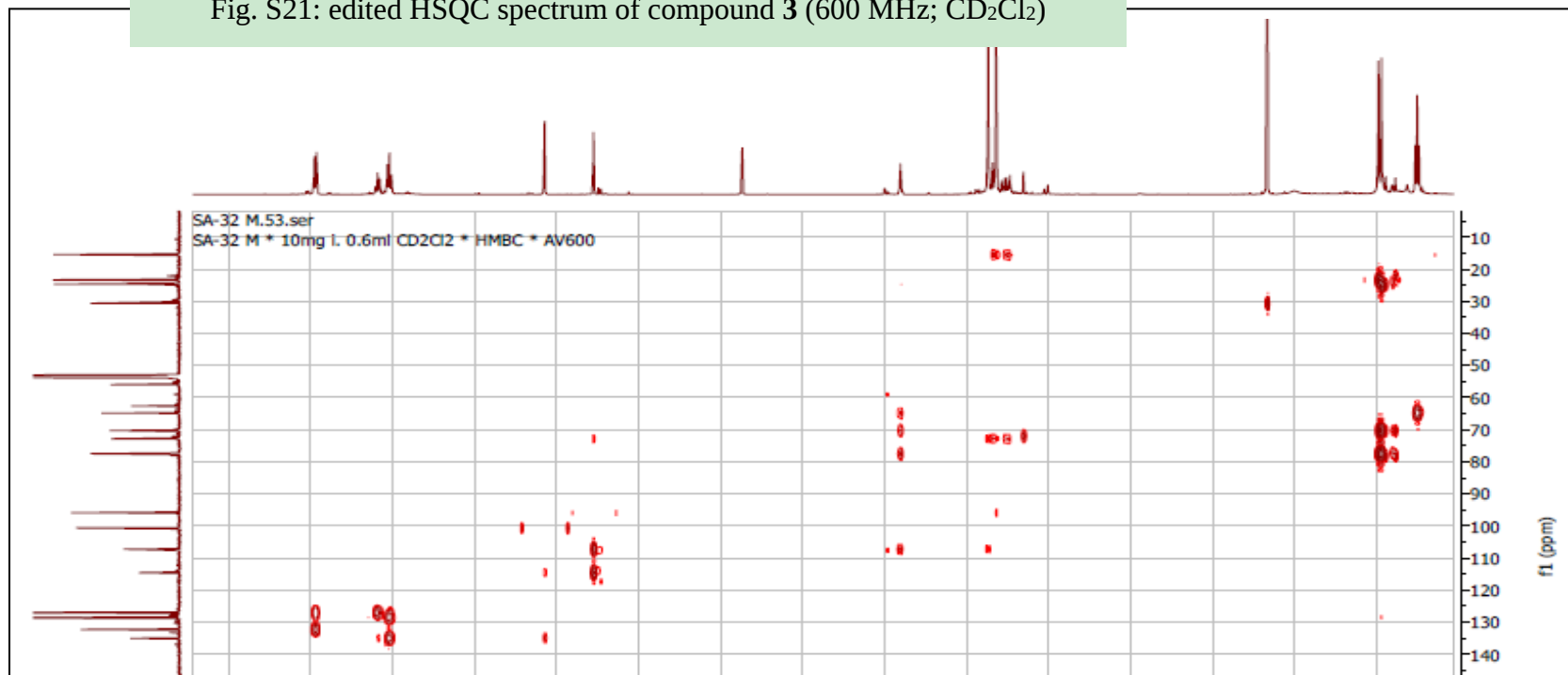


Fig. S22: HMBC spectrum of compound **3** (600 MHz; CD₂Cl₂)

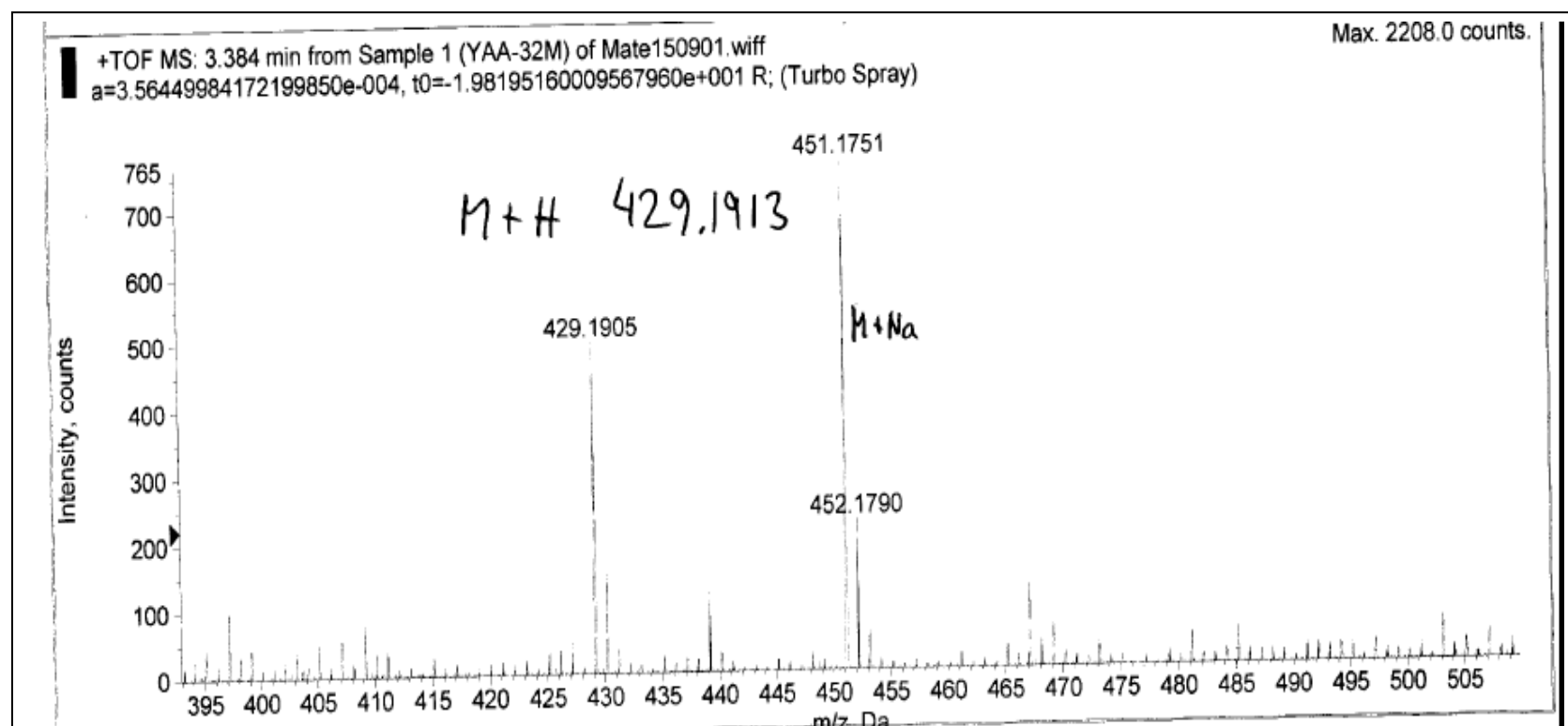
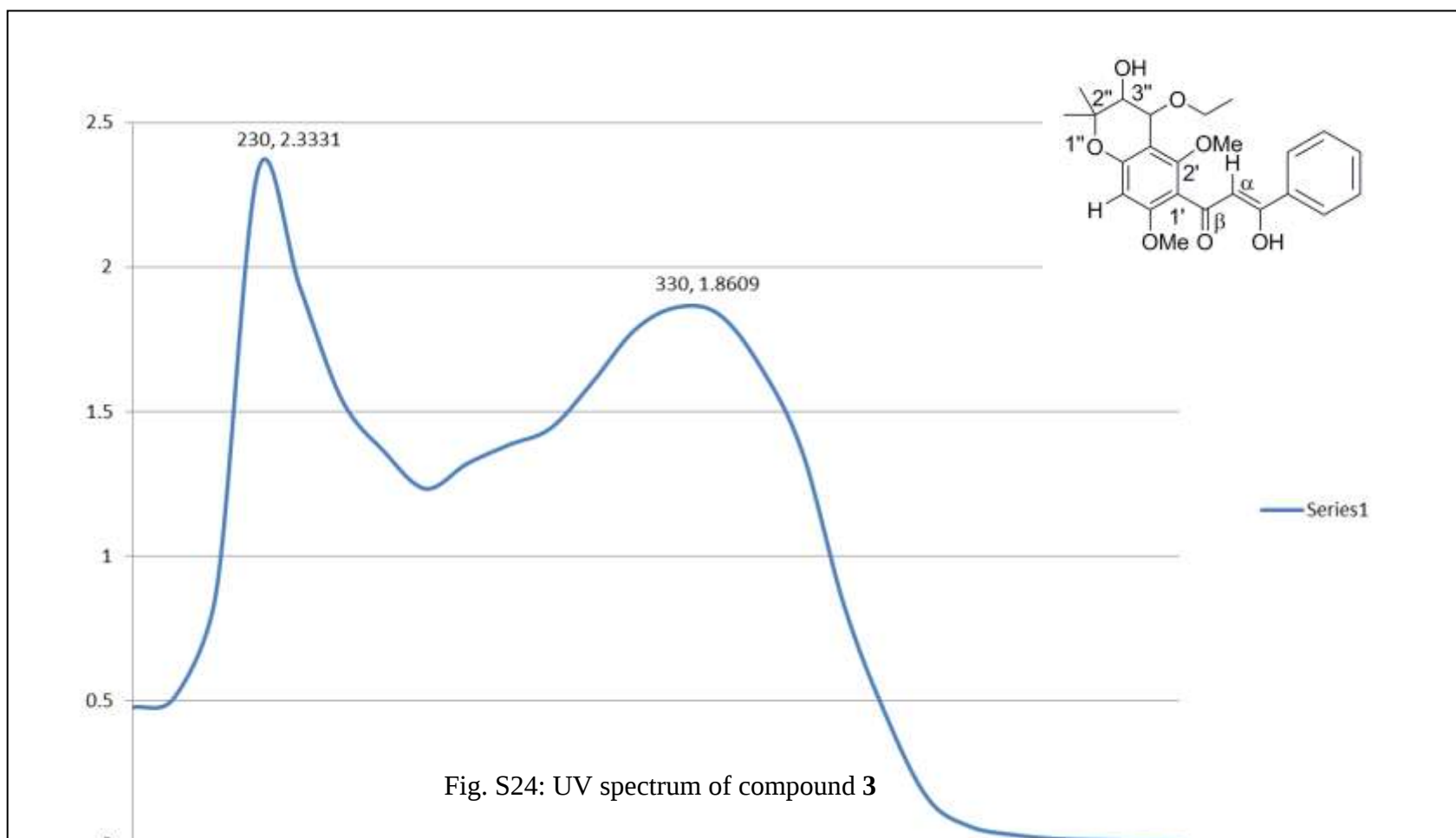


Fig. S23: HRMS of compound 3



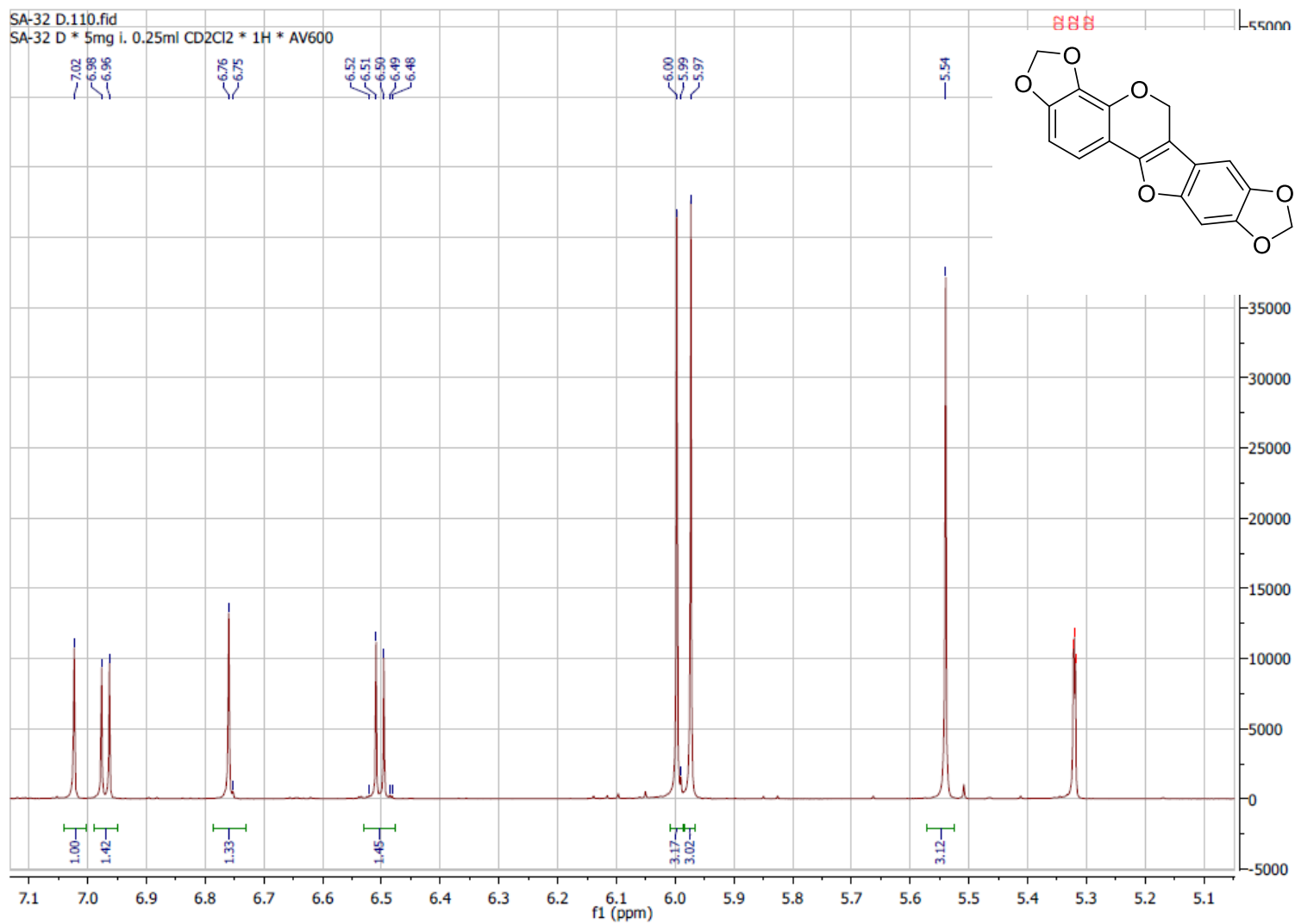


Fig. S25: ¹H NMR spectrum of compound **4** (600 MHz; CD₂Cl₂)

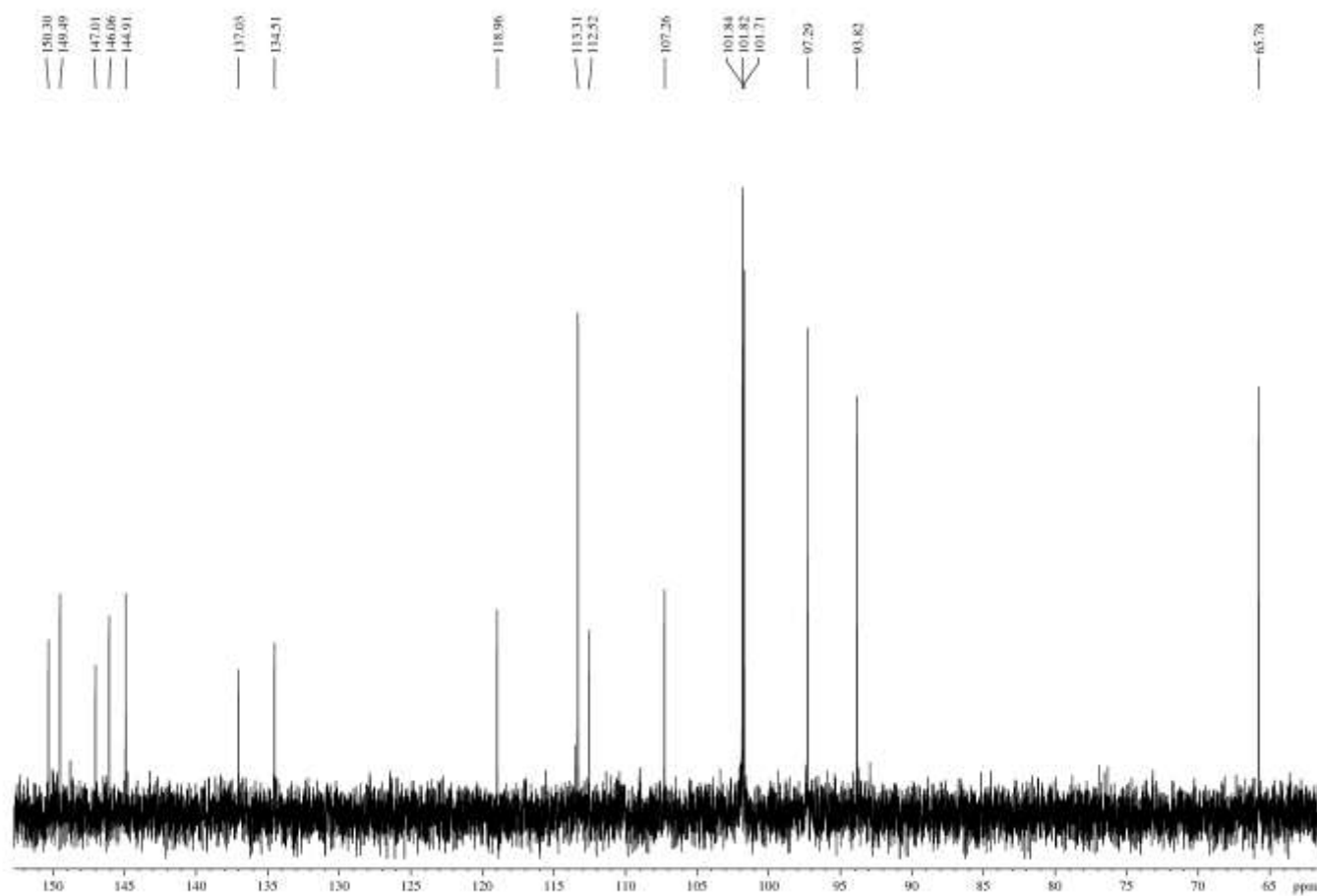


Fig. S26: ^{13}C NMR spectrum of compound 4 (150 MHz; CD_2Cl_2)



Fig. S27: COSY spectrum of compound **4** (600 MHz; CD₂Cl₂)

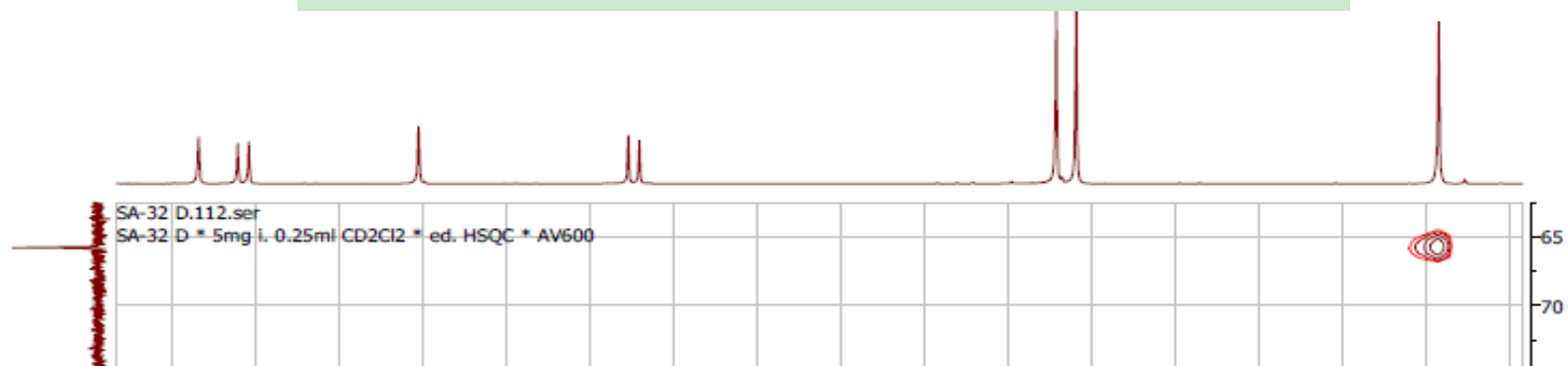


Fig. S28: HSQC spectrum of compound **4** (600 MHz; CD₂Cl₂)

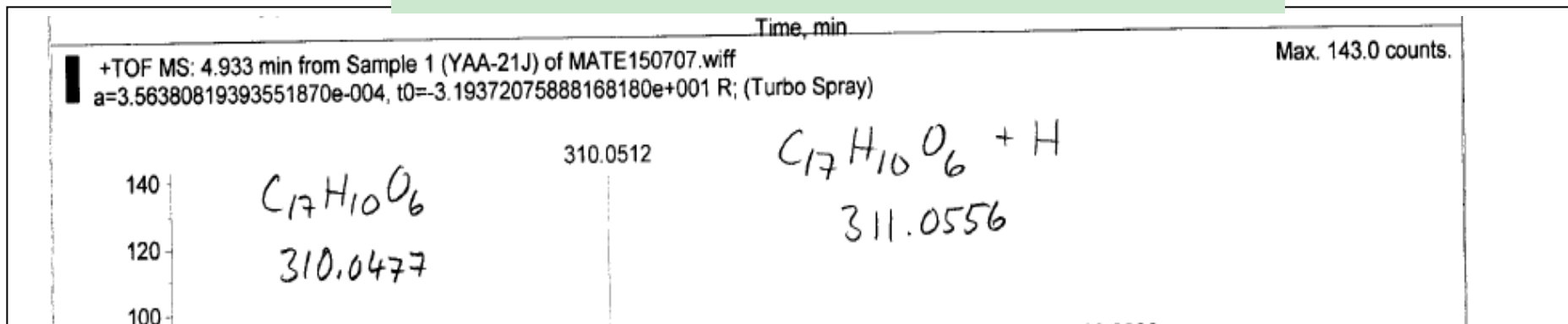
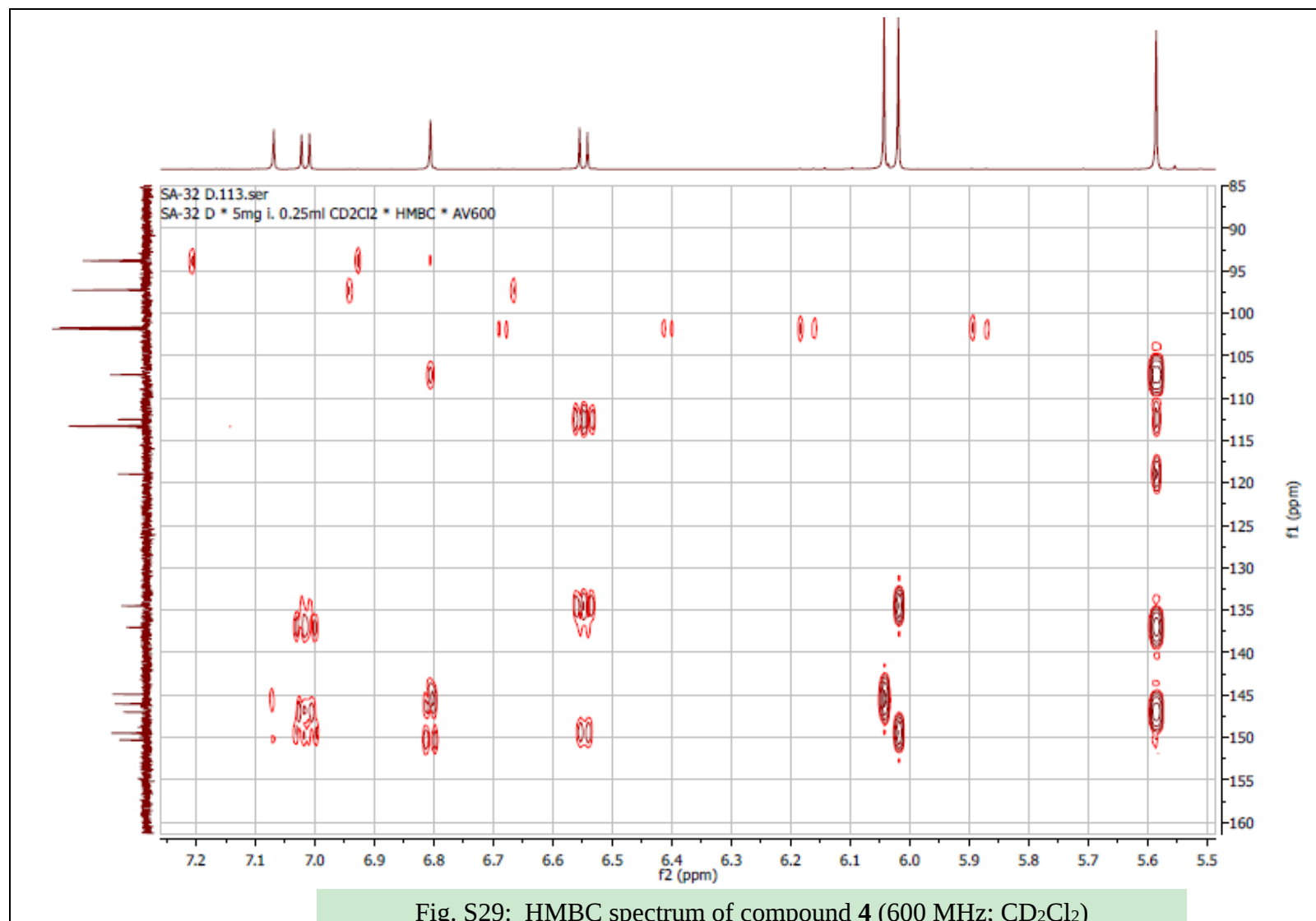


Fig. S30: HRMS of compound **4**

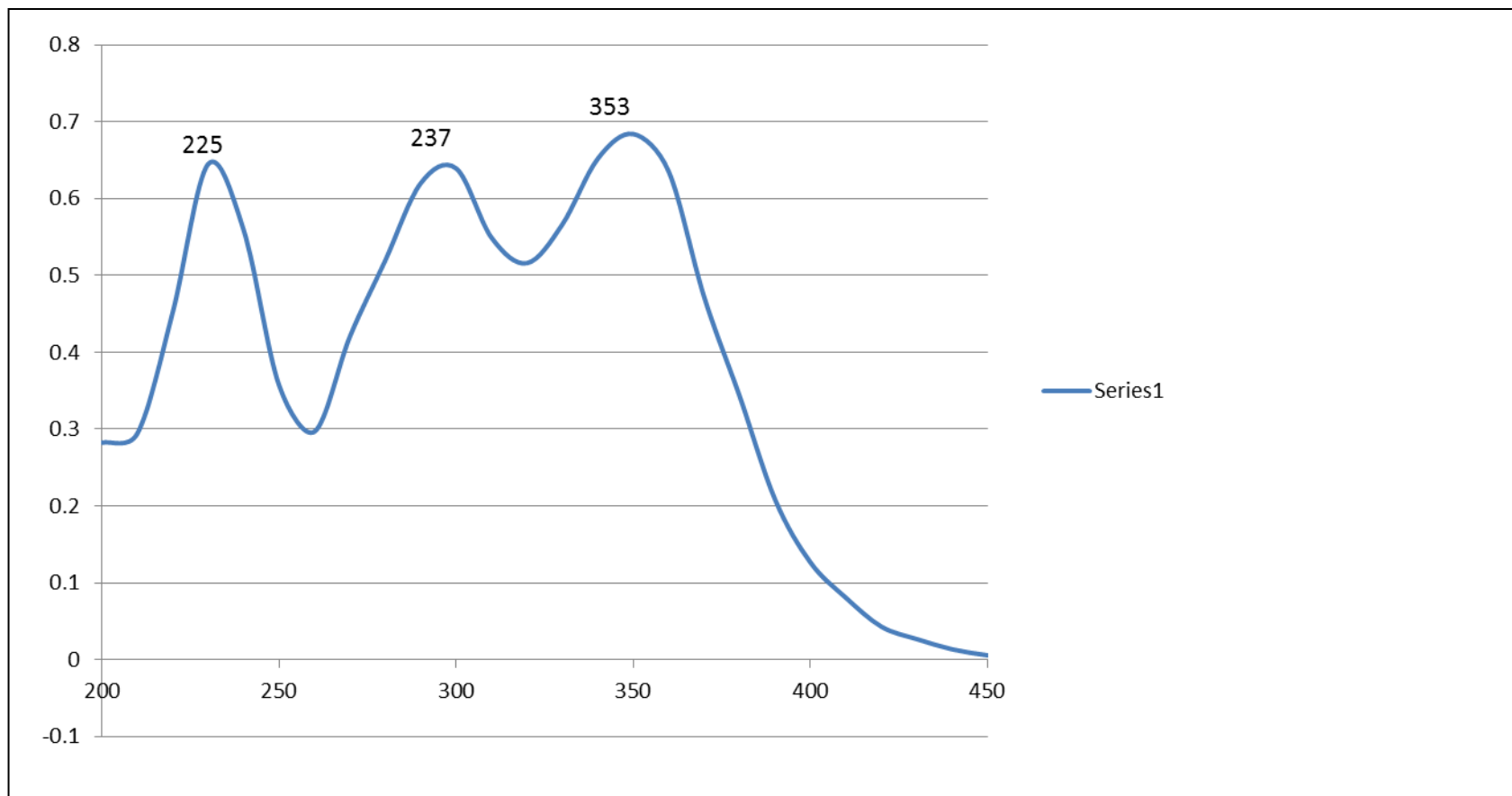


Fig. S31: UV spectrum of compound 4