

**Electronic Supplementary Information**

**Experimental and theoretical insights into the corrosion inhibition activity  
of novel Schiff bases for aluminum alloy in acidic medium**

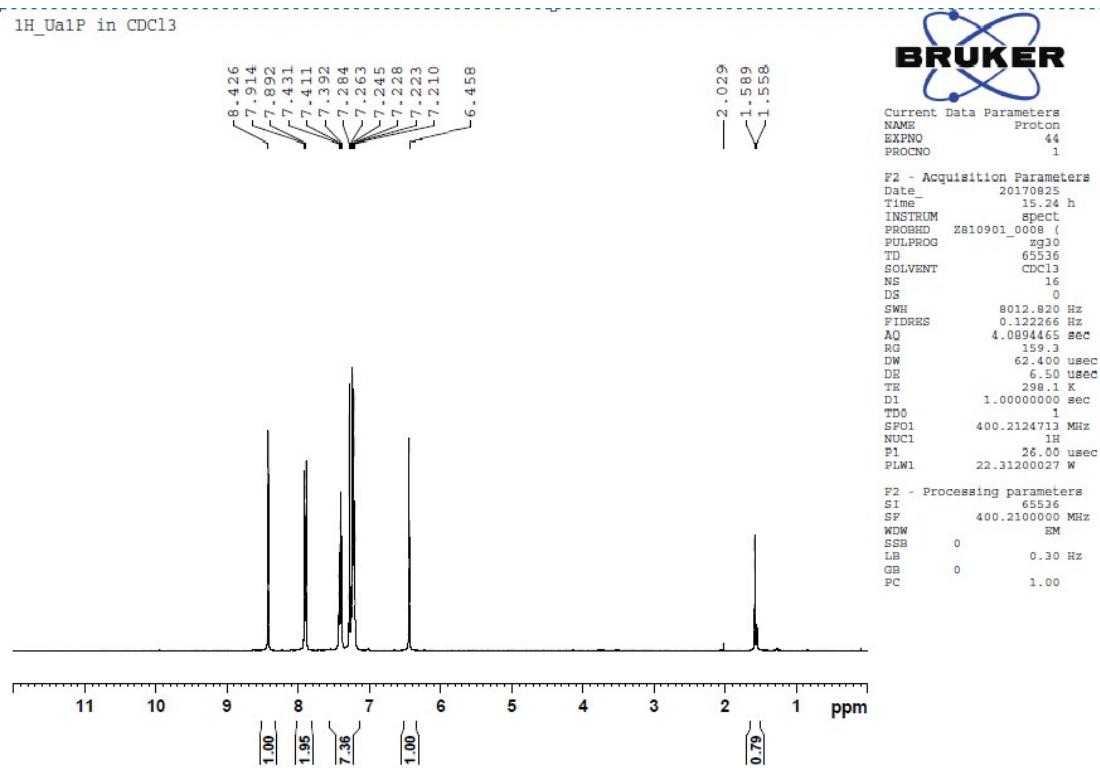
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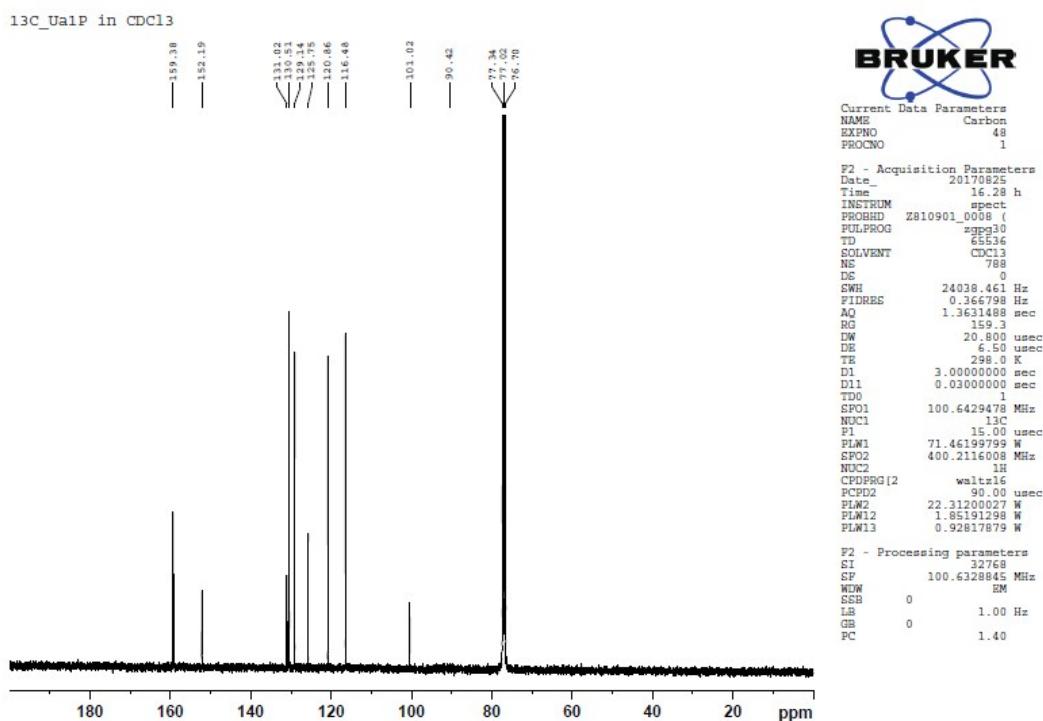
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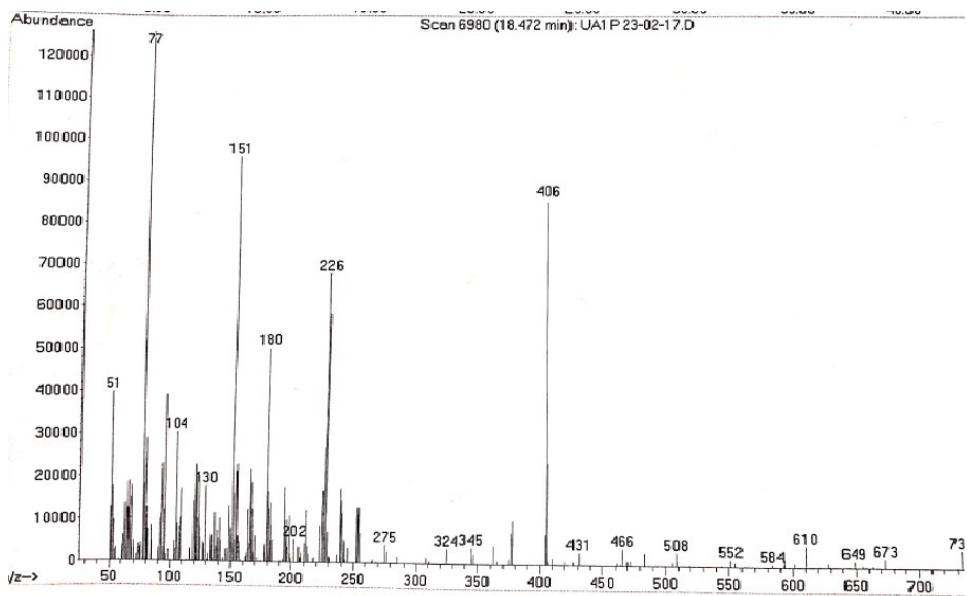
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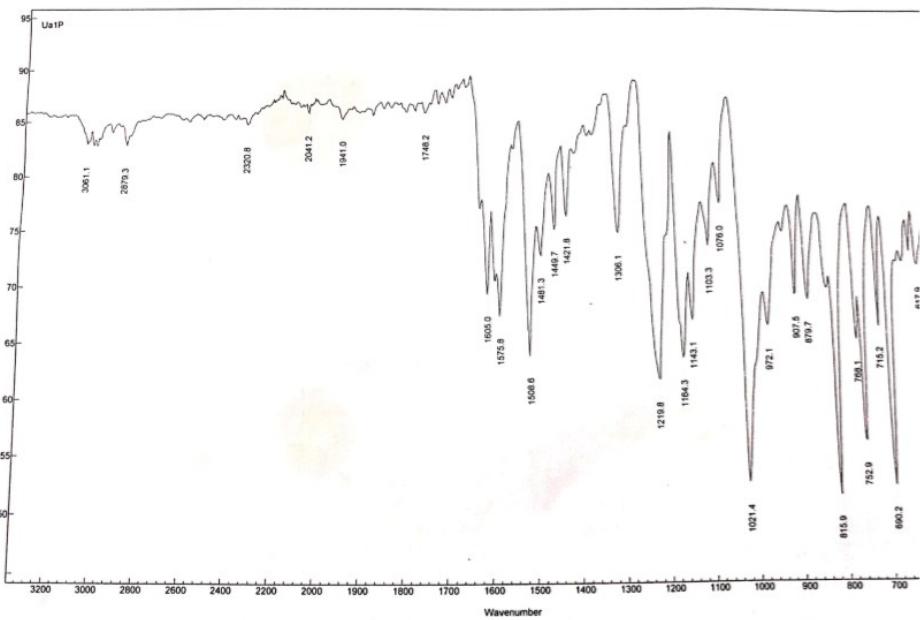
**Fig. S1.**  $^1\text{H}$  NMR spectrum of UA in  $\text{CDCl}_3$



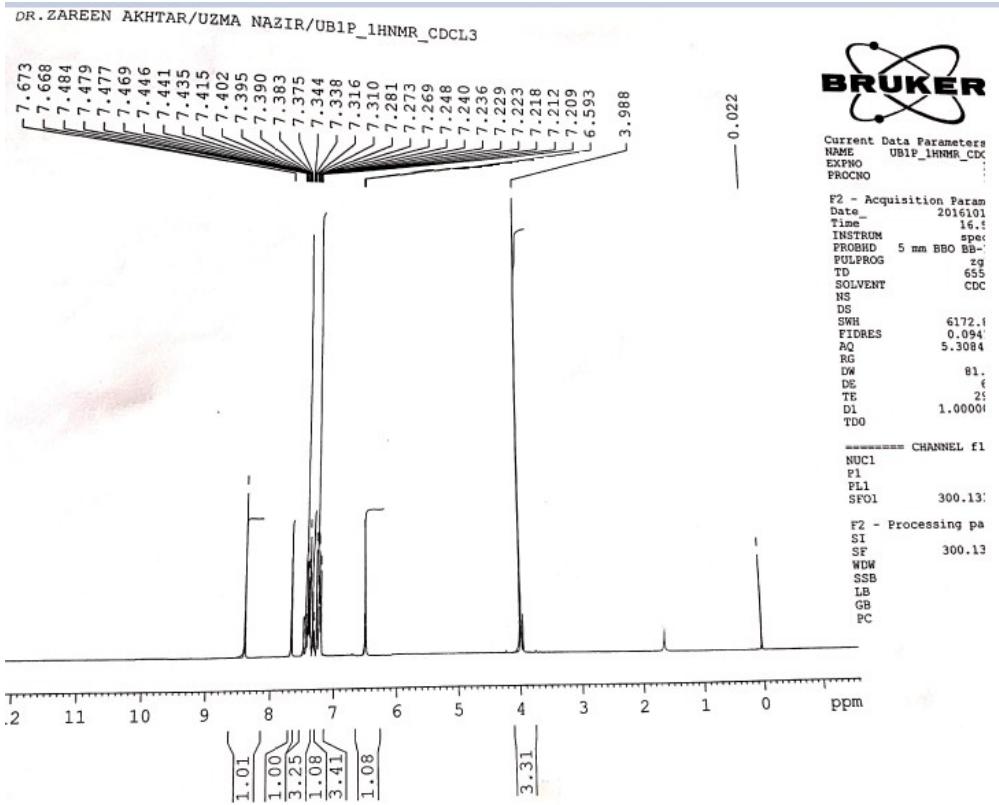
**Fig. S2.**  $^{13}\text{C}$  NMR spectrum of UA in  $\text{CDCl}_3$



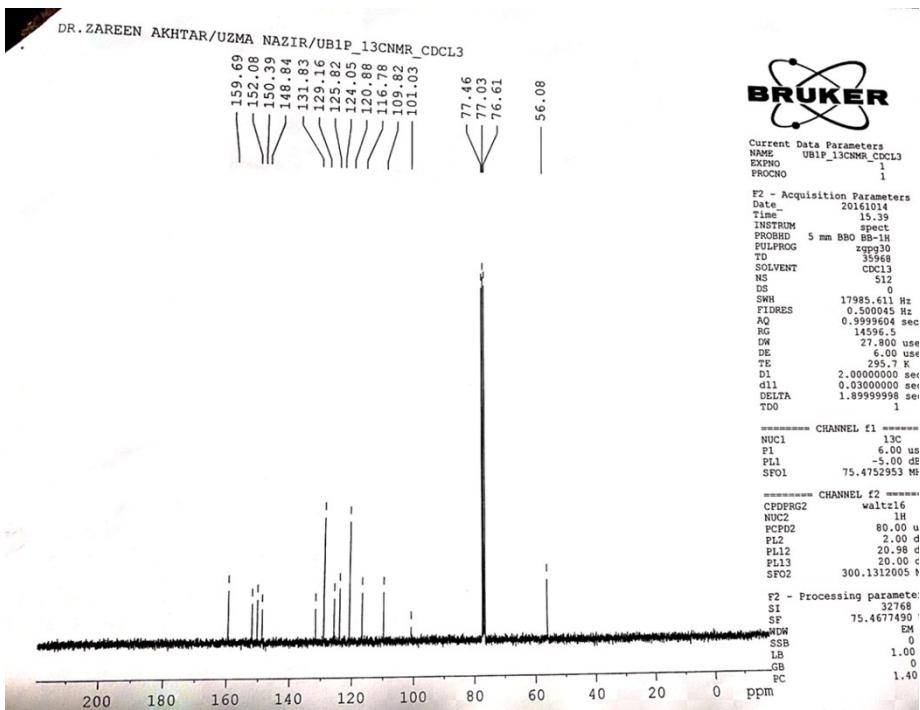
**Fig. S3.** GC Mass spectrum of UA



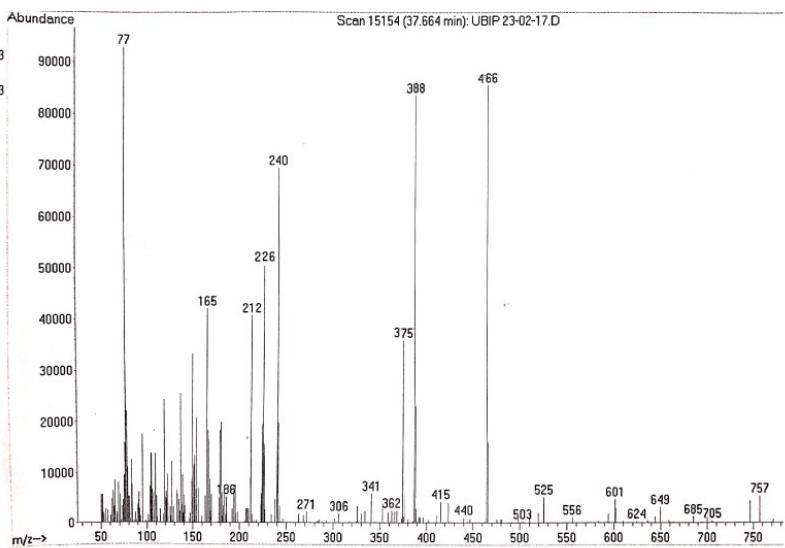
**Fig. S4.** FT-IR spectrum of UA



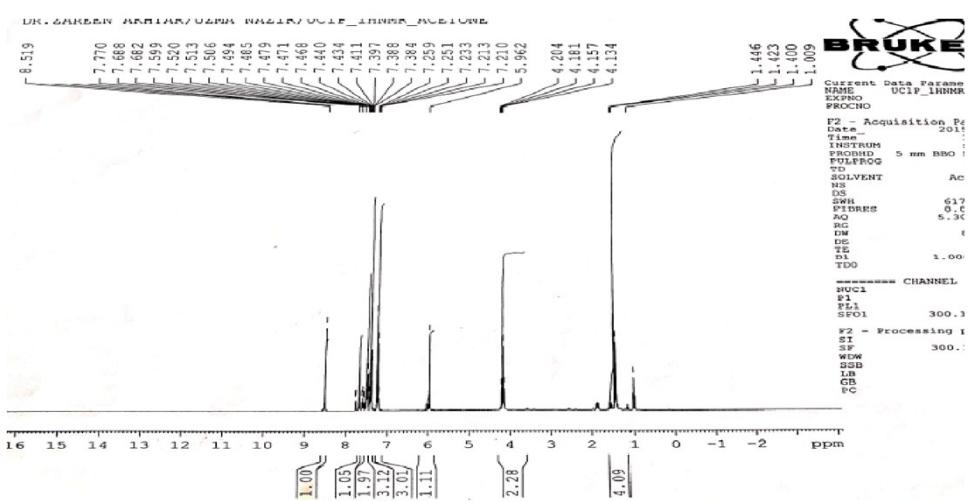
**Fig. S5.**  $^1\text{H}$  NMR spectrum of UB in  $\text{CDCl}_3$



**Fig. S6.**  $^{13}\text{C}$  NMR spectrum of UB in  $\text{CDCl}_3$

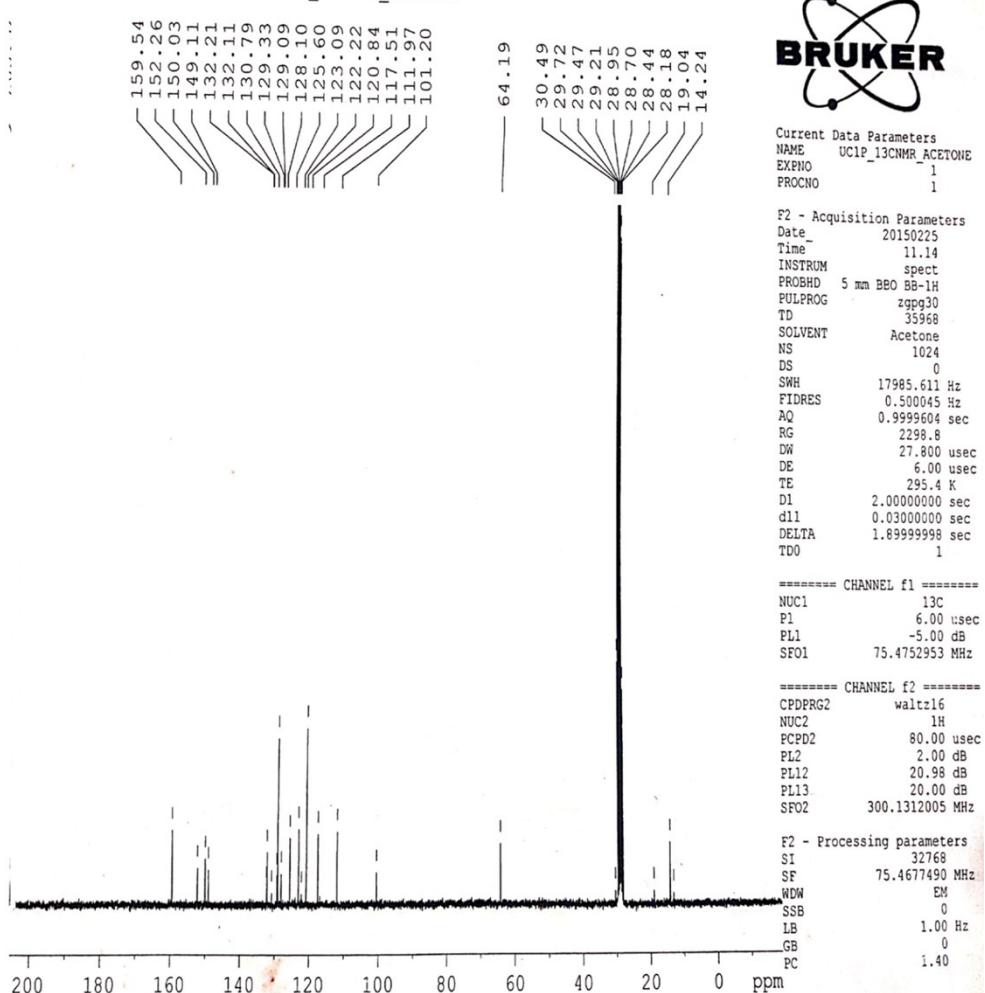


**Fig. S7.** GC Mass spectrum of UB

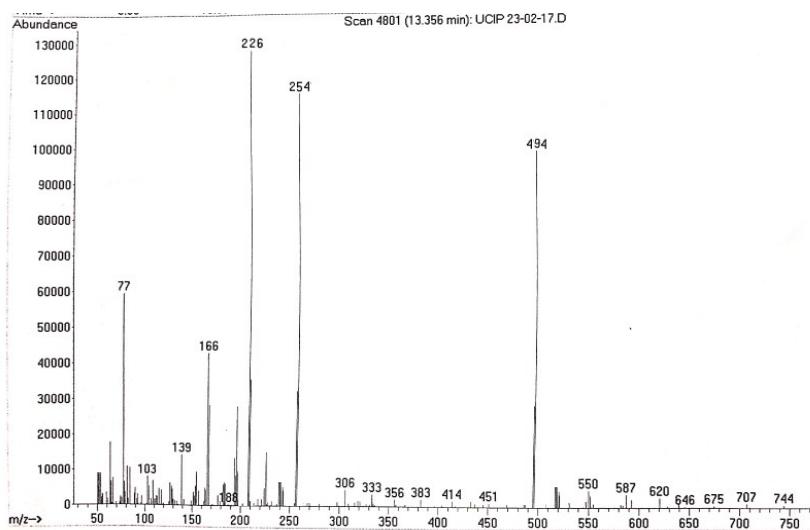


**Fig. S8.** <sup>1</sup>H NMR spectrum of UC in Acetone

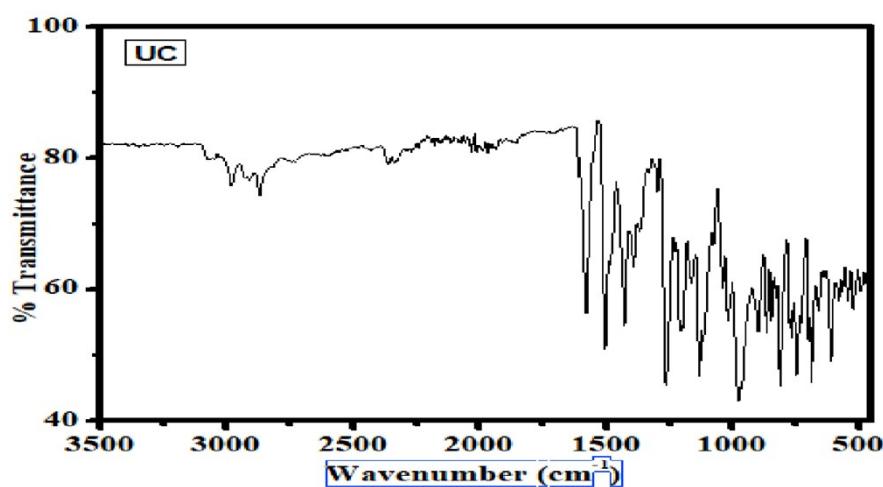
ZAREEN AKHTAR/UZMA NAZIR/UC1P\_13CNMR\_ACETONE



**Fig. S9.** <sup>13</sup>C NMR spectrum of UC in Acetone



**Fig. S10.** GC Mass spectrum of UC



**Fig. S11.** FT-IR spectrum of UC