

Investigation of CNT/PPy modified carbon paper electrodes under anaerobic and aerobic conditions for phenol bioremediation in microbial fuel cell

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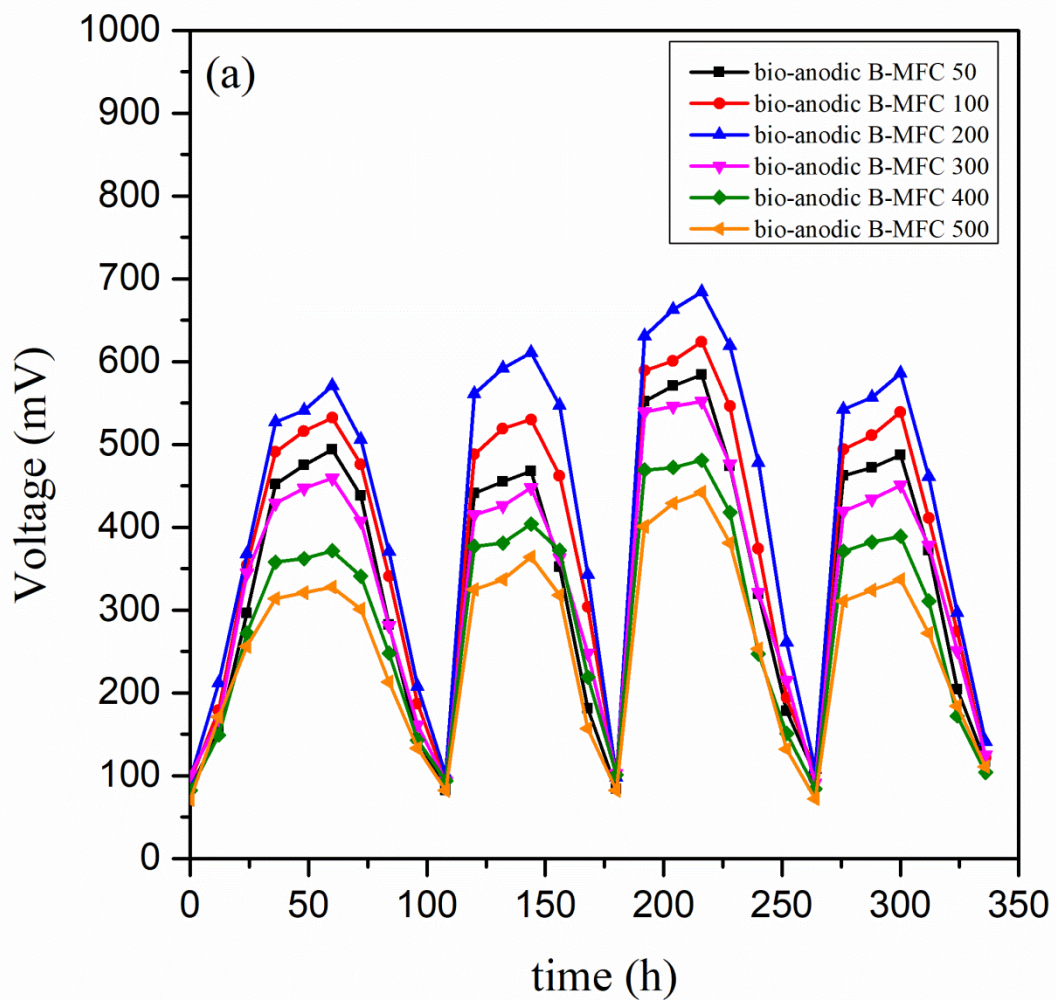
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Supporting Information

Figure S1 Voltage output at different phenolic concentrations for (a) bio-anodic and (b) bio-cathodic B-MFCs

Figure S2 UV/Vis spectra of phenol treatment using (a,b) bare carbon paper anodes (c,d) modified carbon paper anodes at 200 mg/L concentration for bio-anodic and bio-cathodic MFCs

Figure S3 EDX spectra of (a) bare (b) MWCNT/PPy coated carbon paper electrode (c,d) bio-anodic and bio-cathodic B-MFCs and (e,f) bio-anodic and bio-cathodic C-MFCs respectively



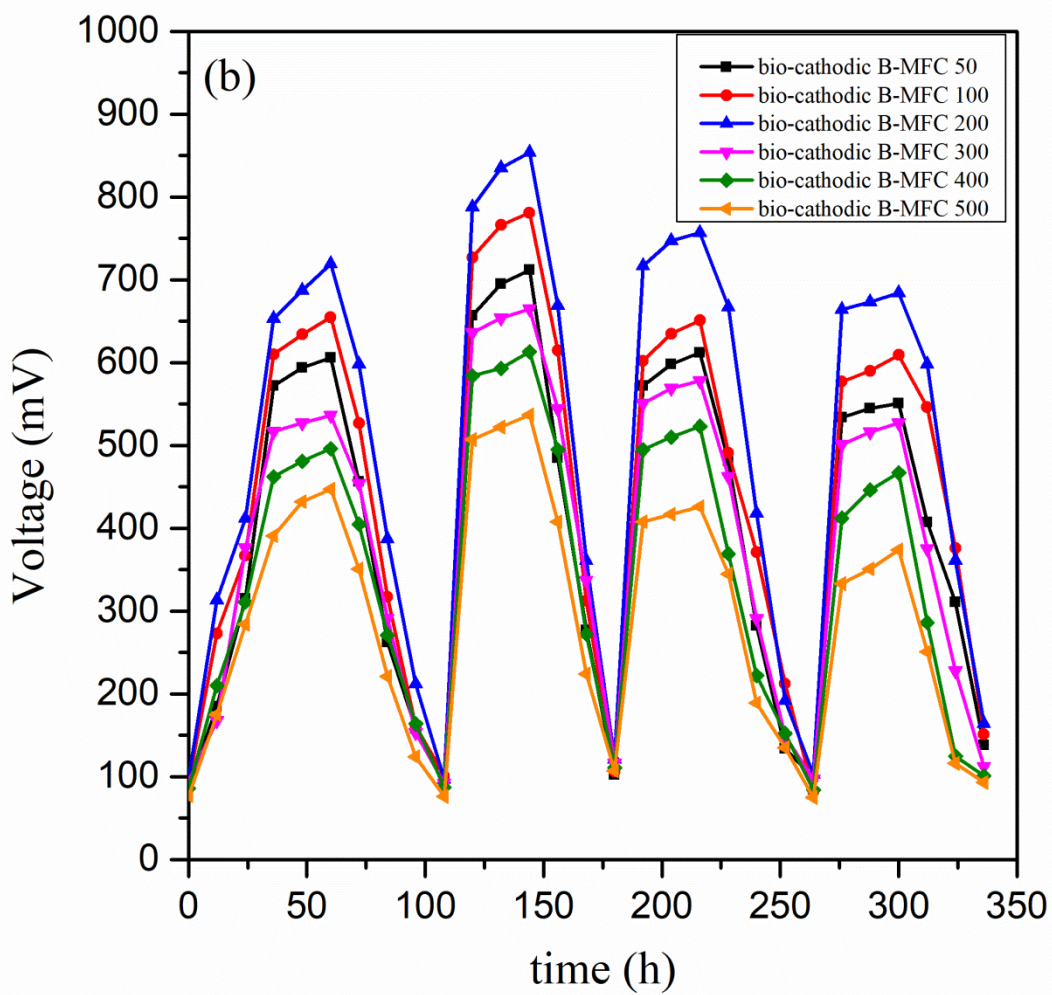
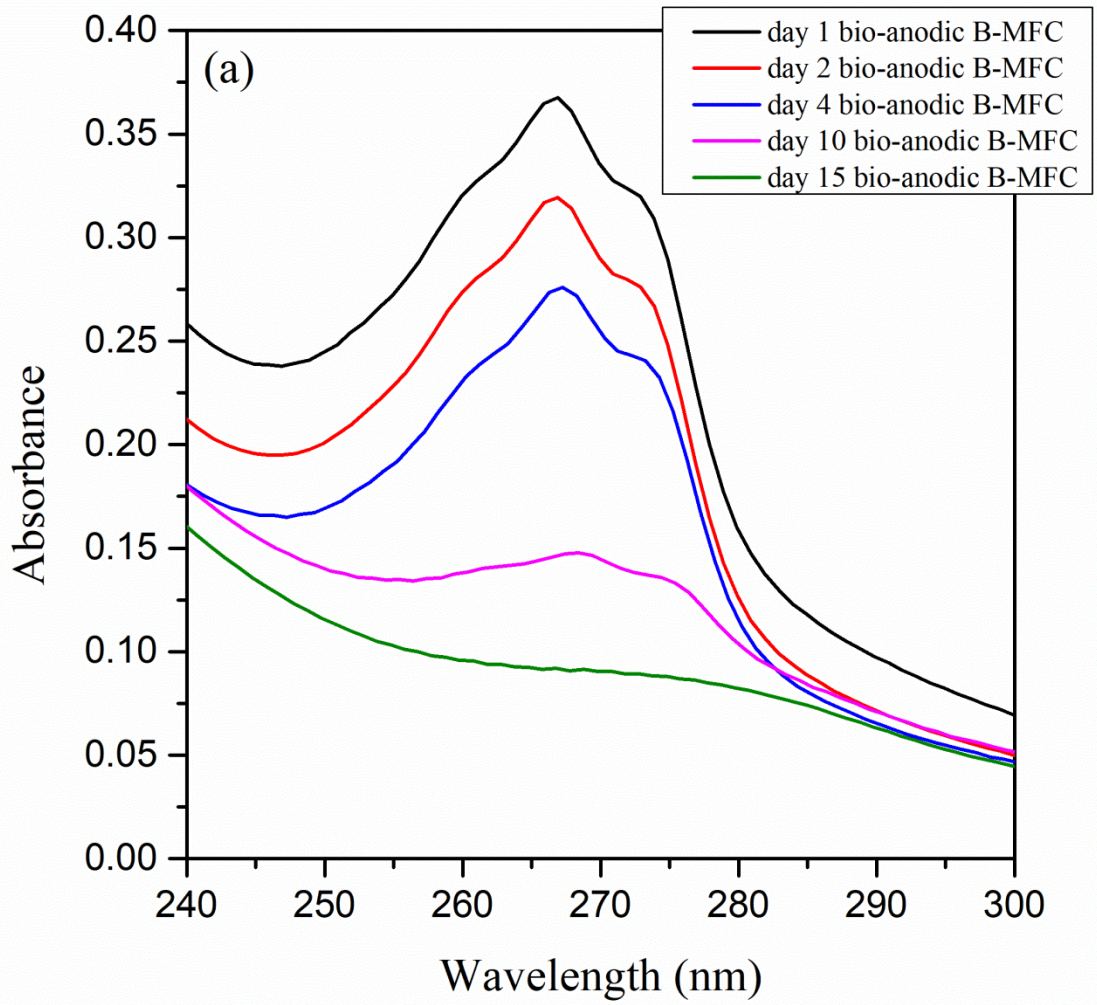
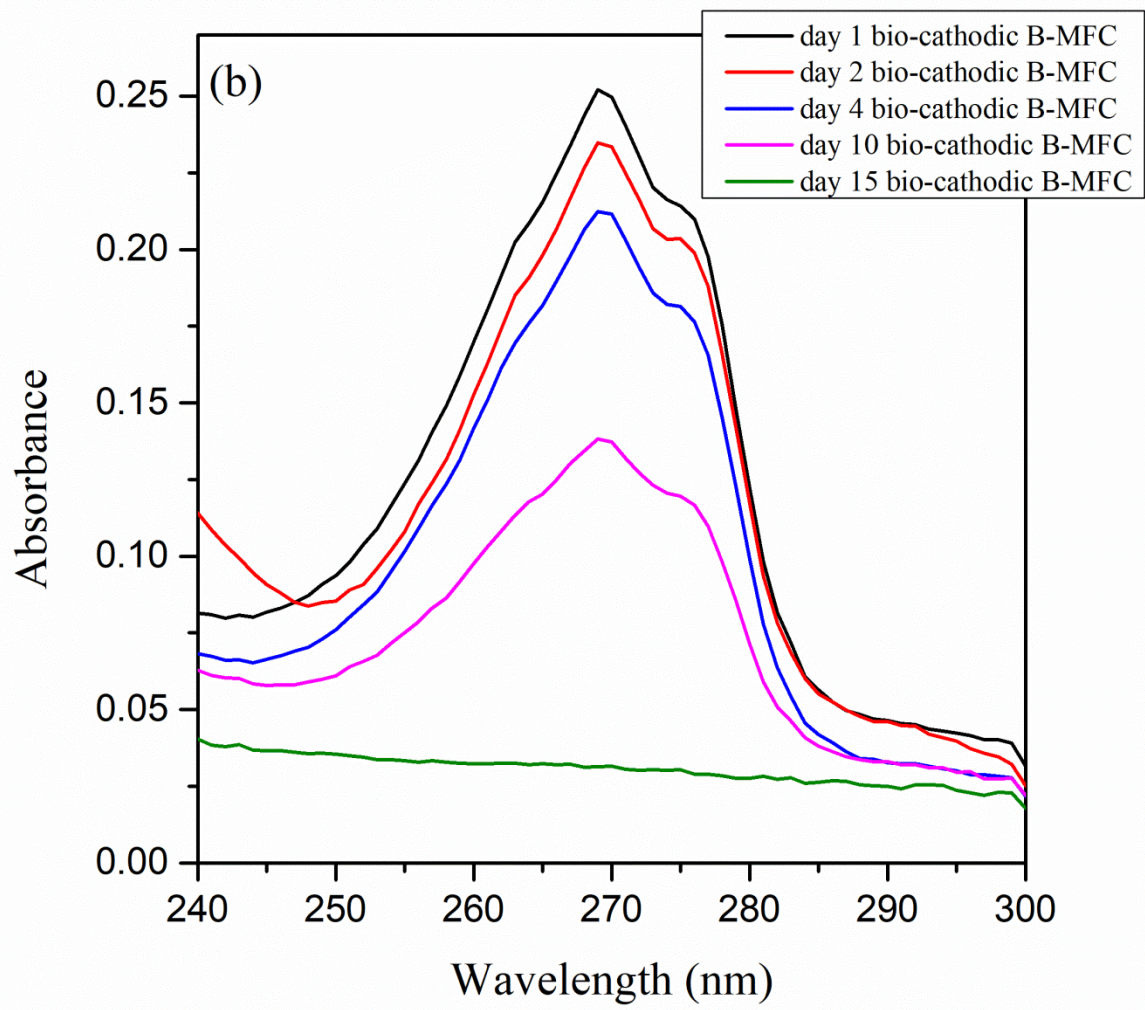
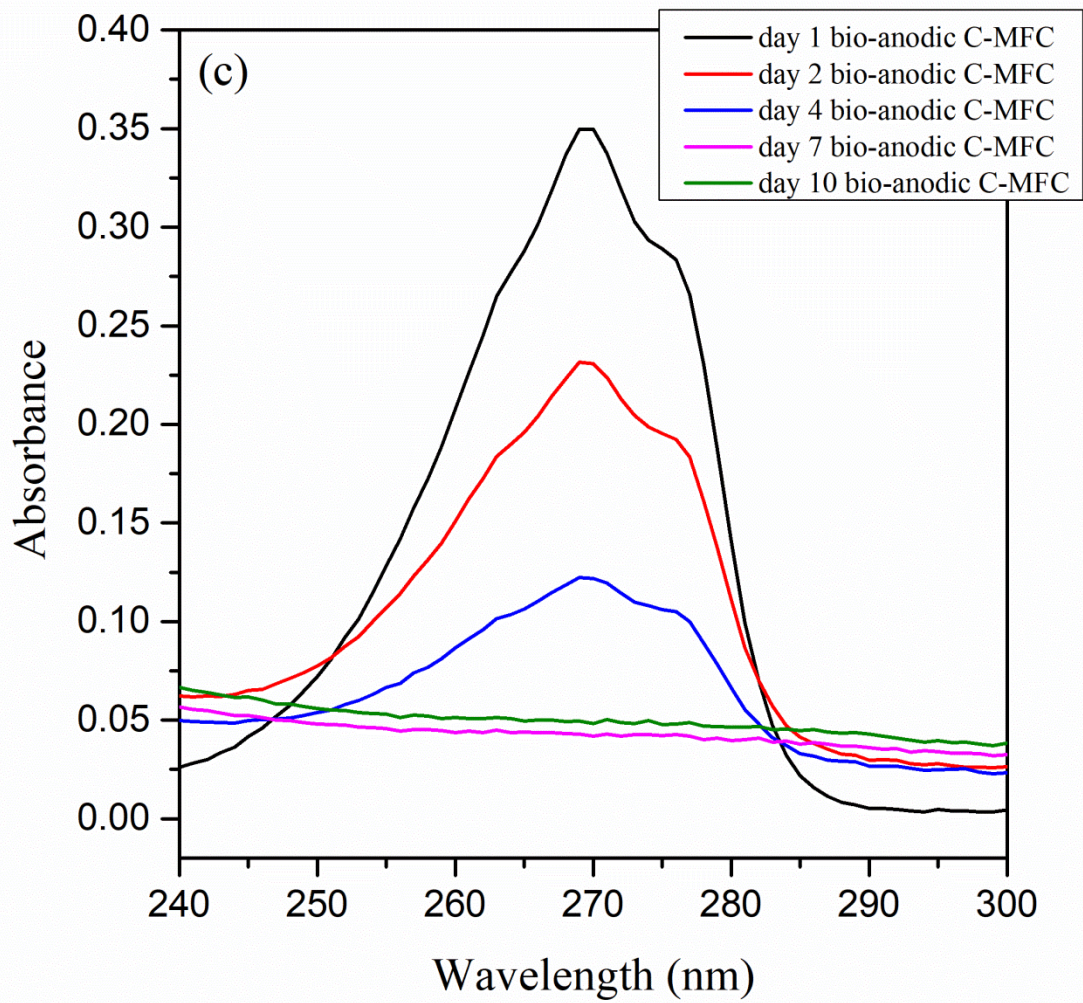


Figure S1 Voltage output at different phenolic concentrations for (a) bio-anodic and (b) bio-cathodic B-MFCs







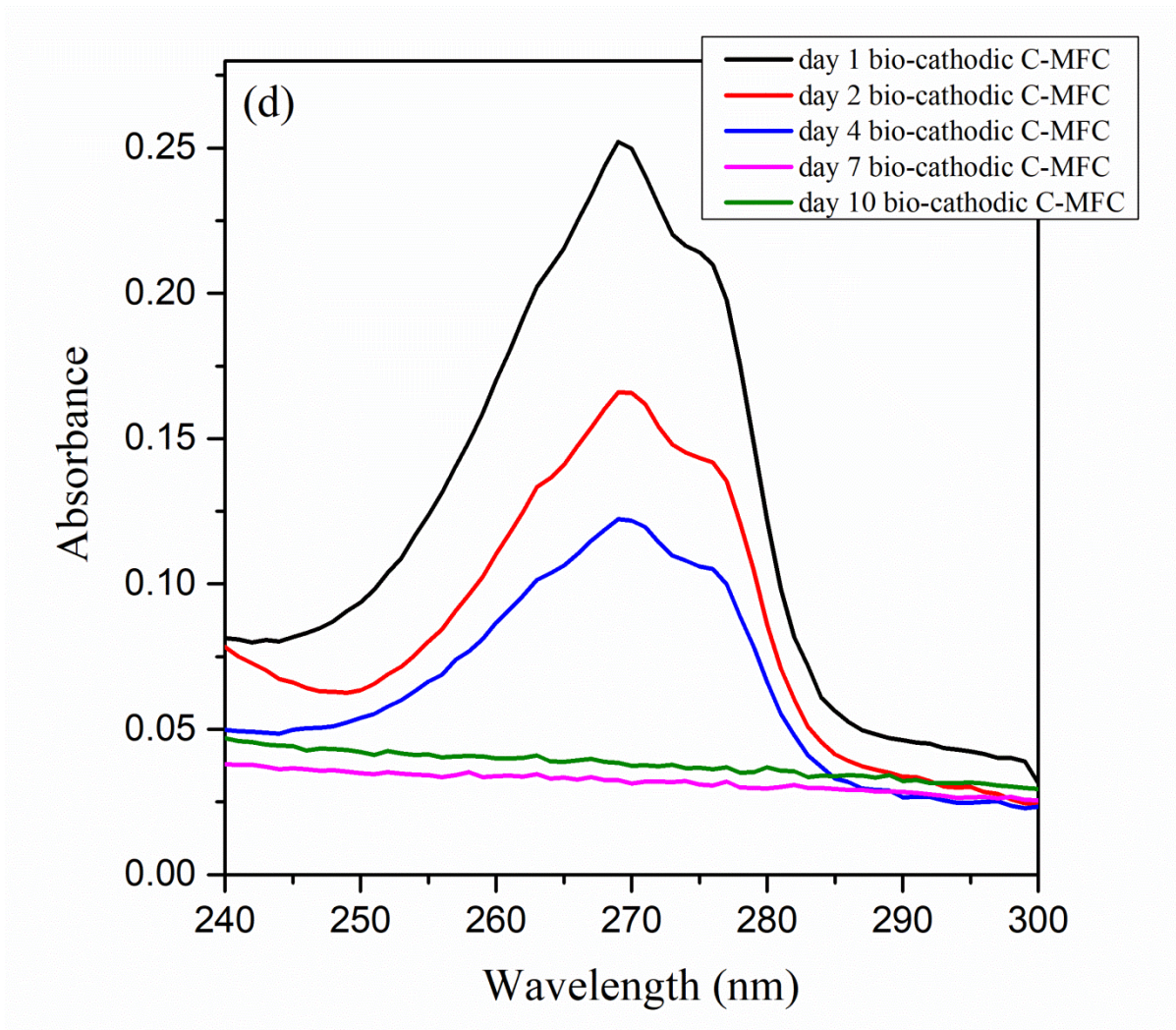
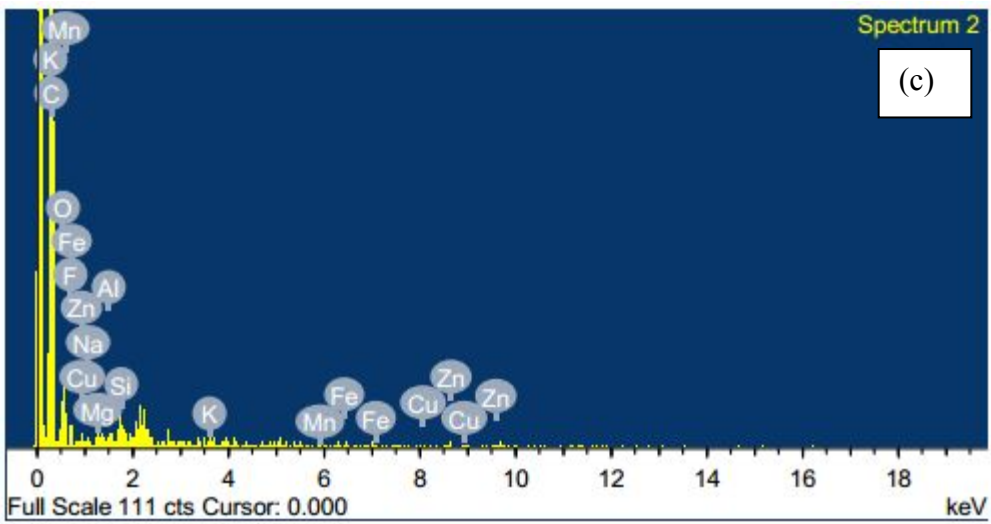
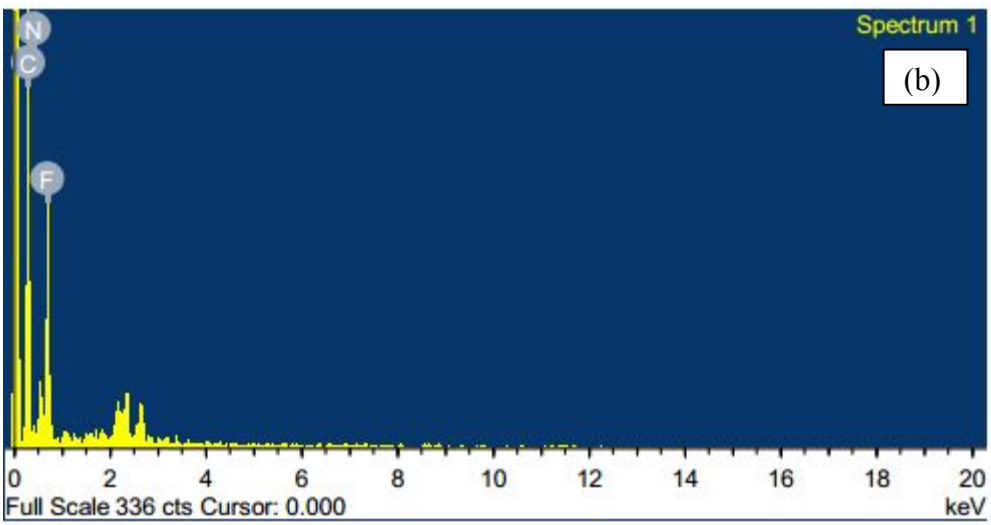
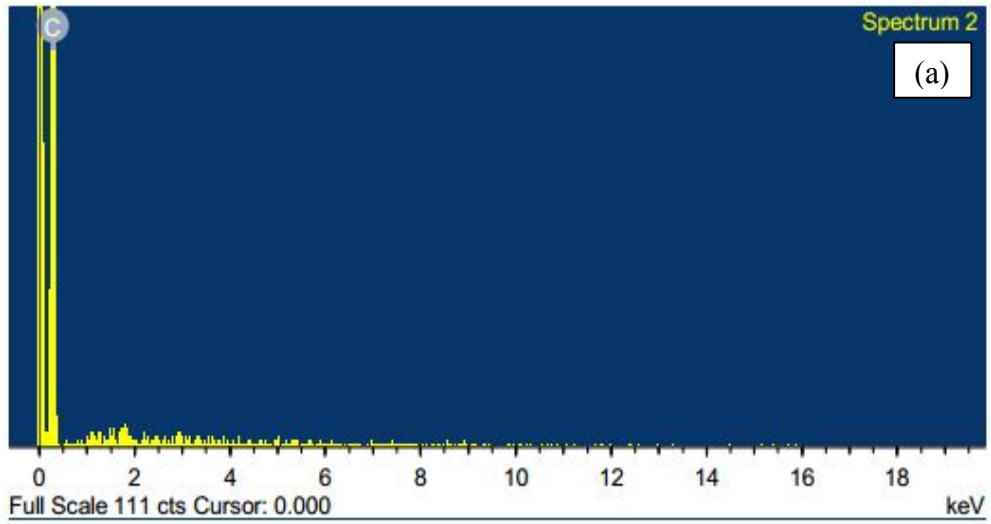


Figure S2 UV/Vis spectra of phenol treatment using (a,b) bare carbon paper anodes (c,d) modified carbon paper anodes at 200 mg/L concentration for bio-anodic and bio-cathodic MFCs



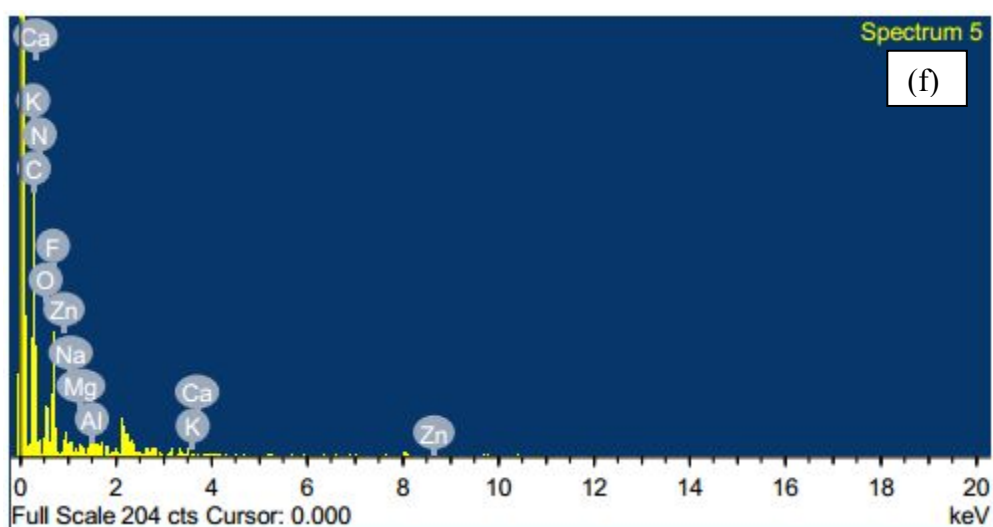
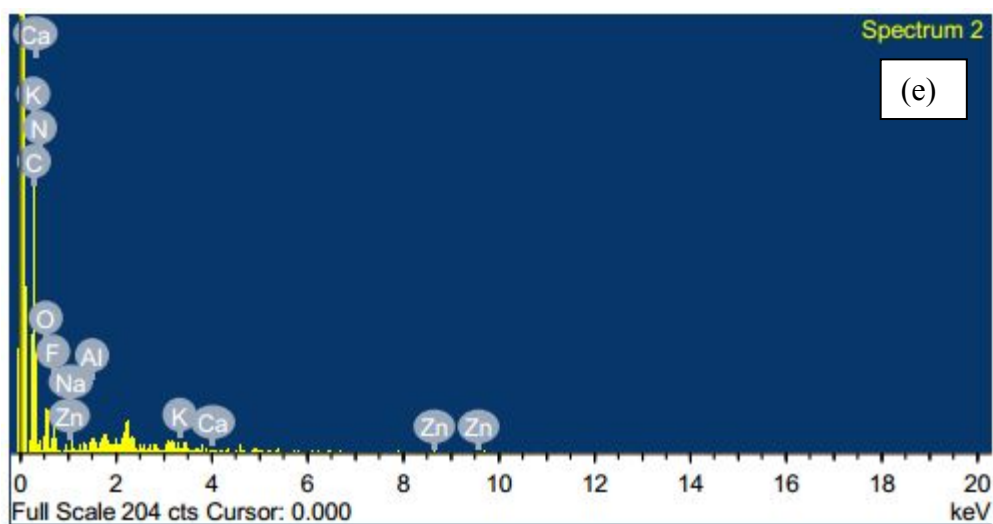
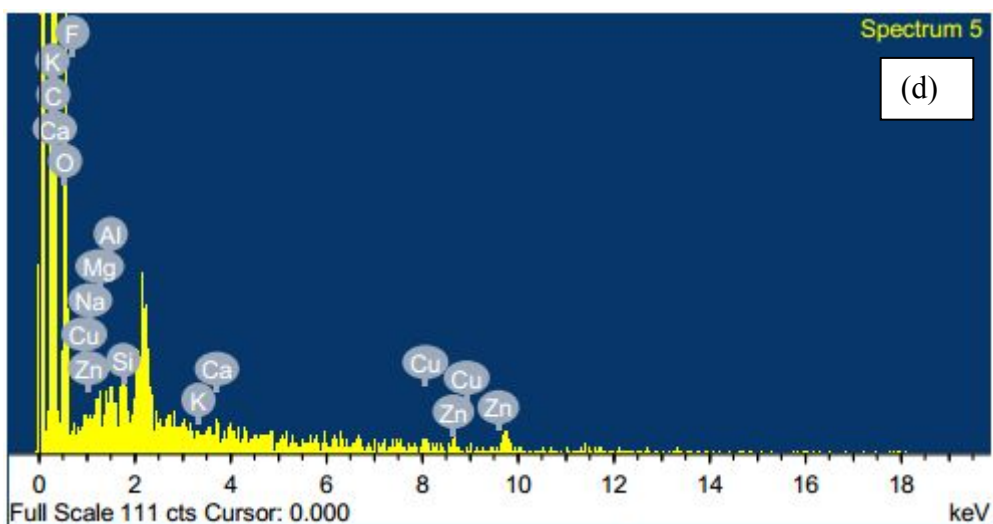


Figure S3- EDX spectra of (a) bare (b) MWCNT/Ppy coated carbon paper electrode (c,d) bio-anodic and bio-cathodic B-MFCs and (e,f) bio-anodic and bio-cathodic C-MFCs respectively