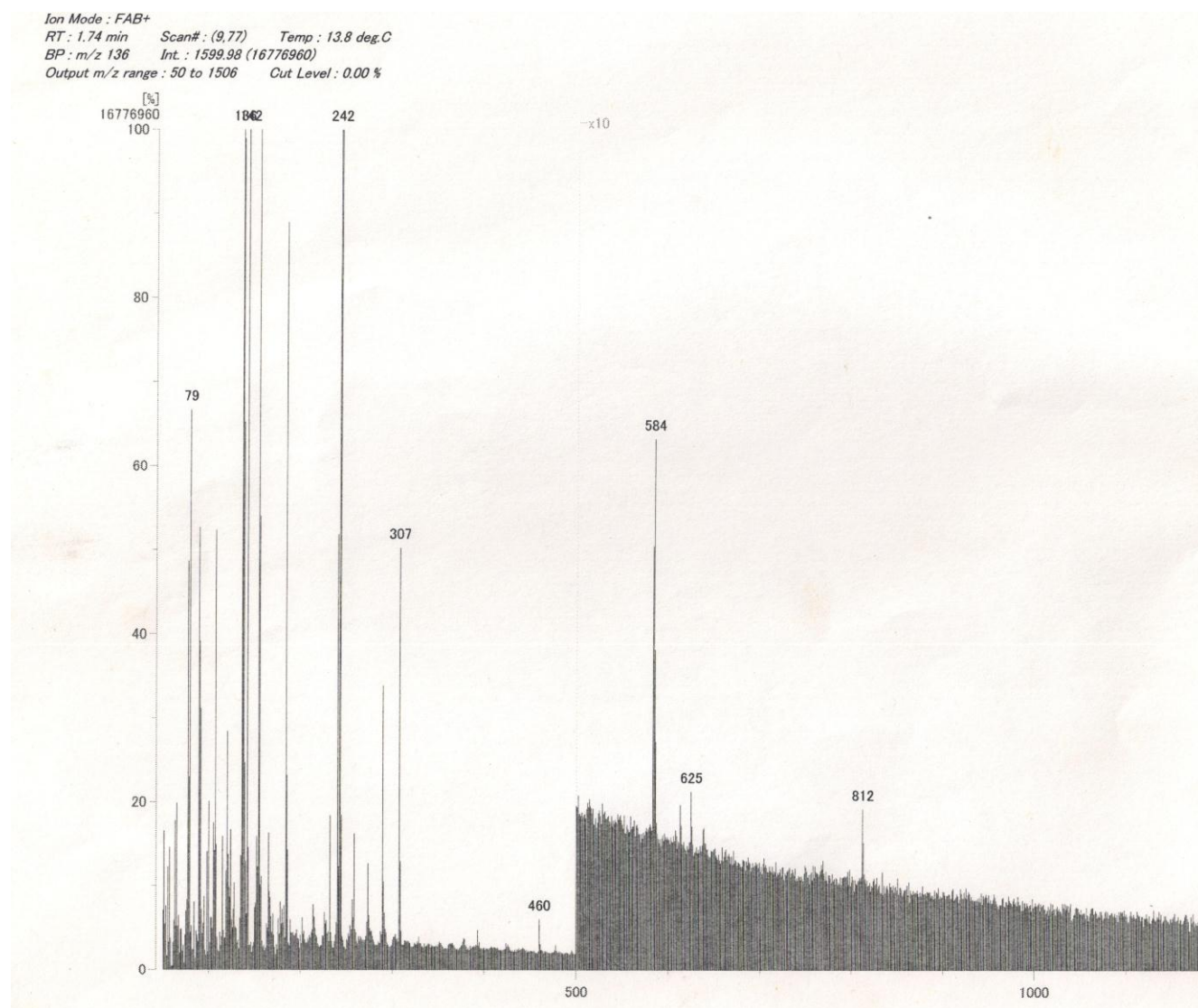


## Supplementary Information

### S1: FAB mass spectroscopy

FAB mass spectroscopy in chloroform for electrochemically synthesized 5CPIIn sample (only soluble form) used in the study. The recorded data is given in the following Figure 1.



## S2: FT-IR spectra

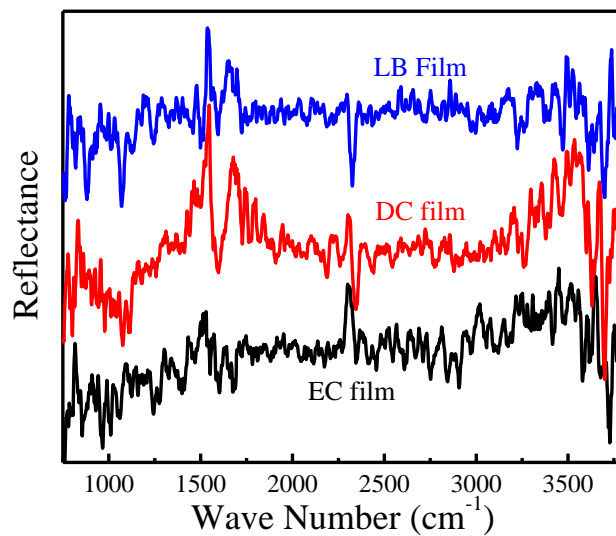


Figure 2. FTIR spectra of electropolymerized (EP) film, Drop cast (DC) film and Langmuir Blodgett (LB) film respectively

The FTIR spectra recorded for EC film, DC film and LB films are founded almost same.