

## Supplementary Material

### Microwave assisted ligand free, base free Heck reaction in task specific imidazolium ionic liquid

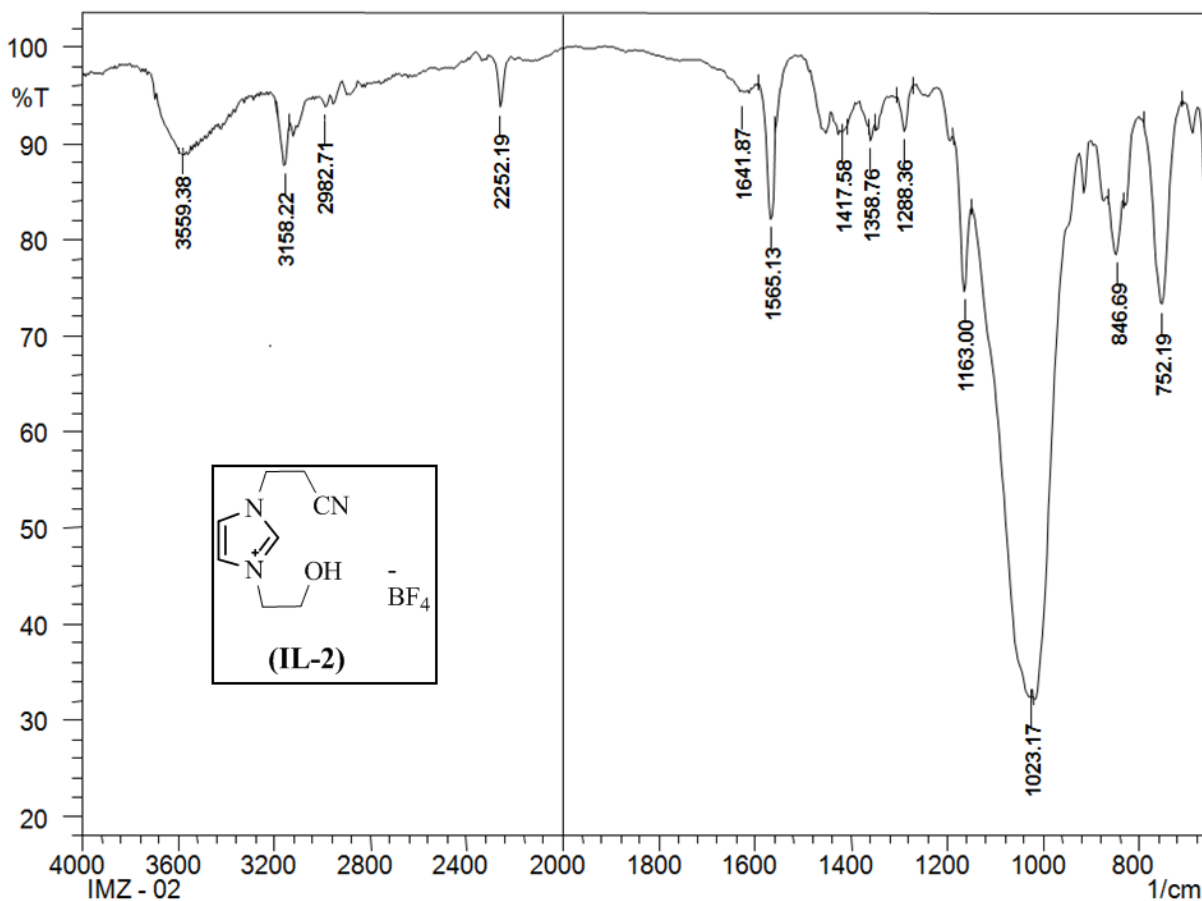
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Matunga (E) Mumbai-400019, India.

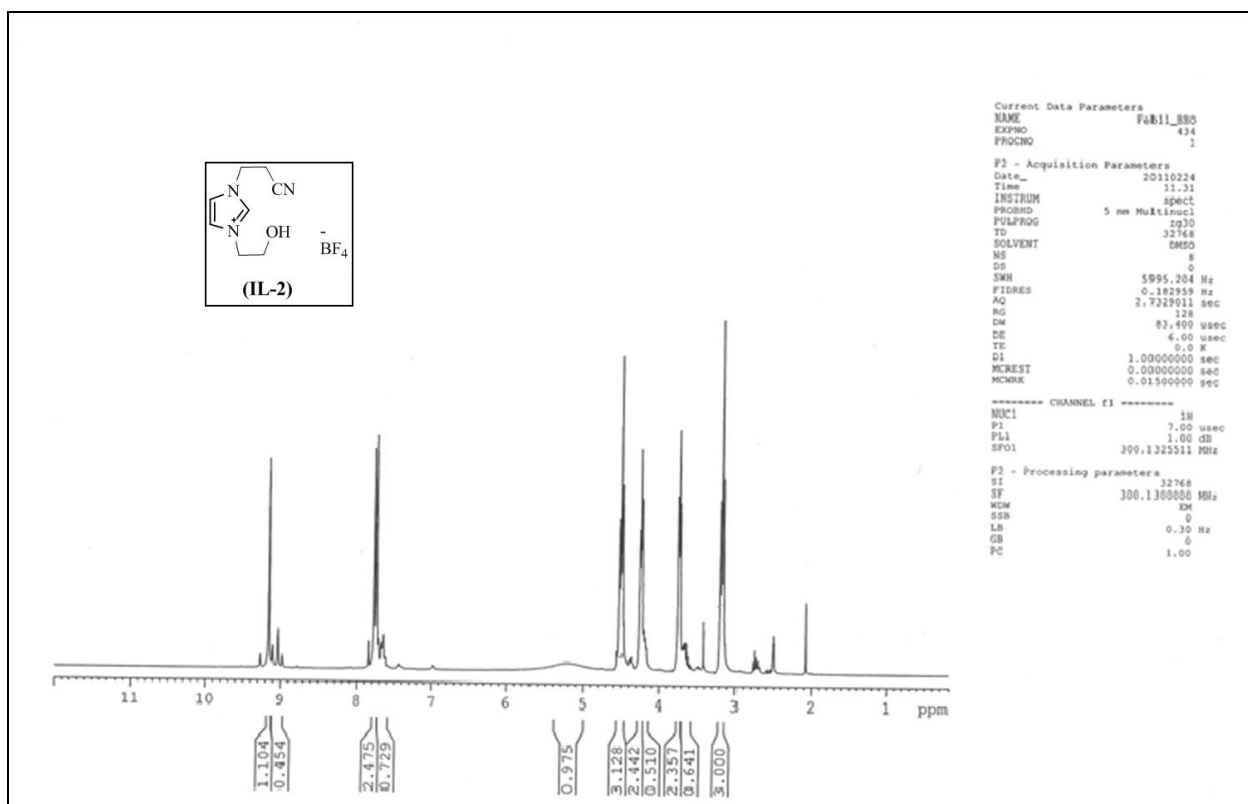
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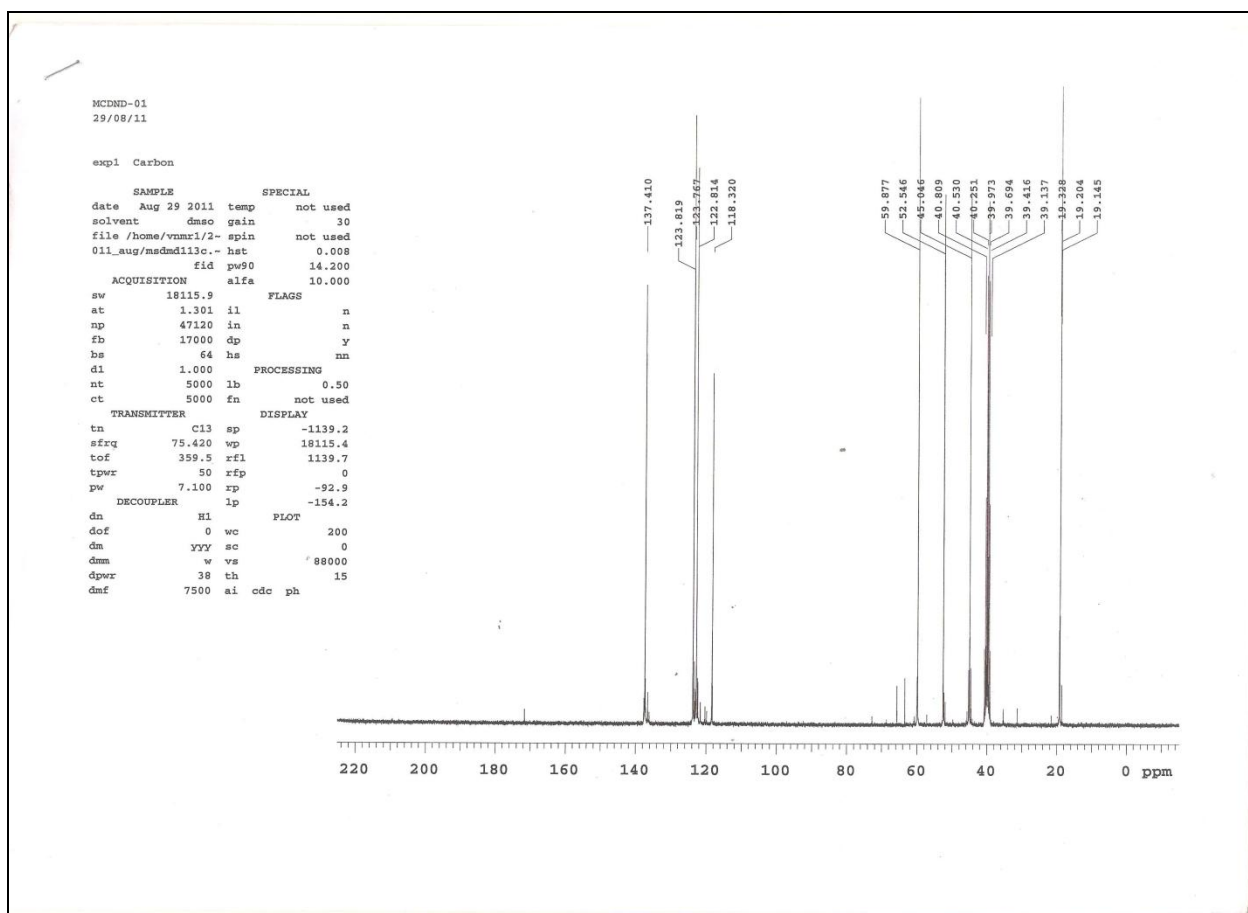
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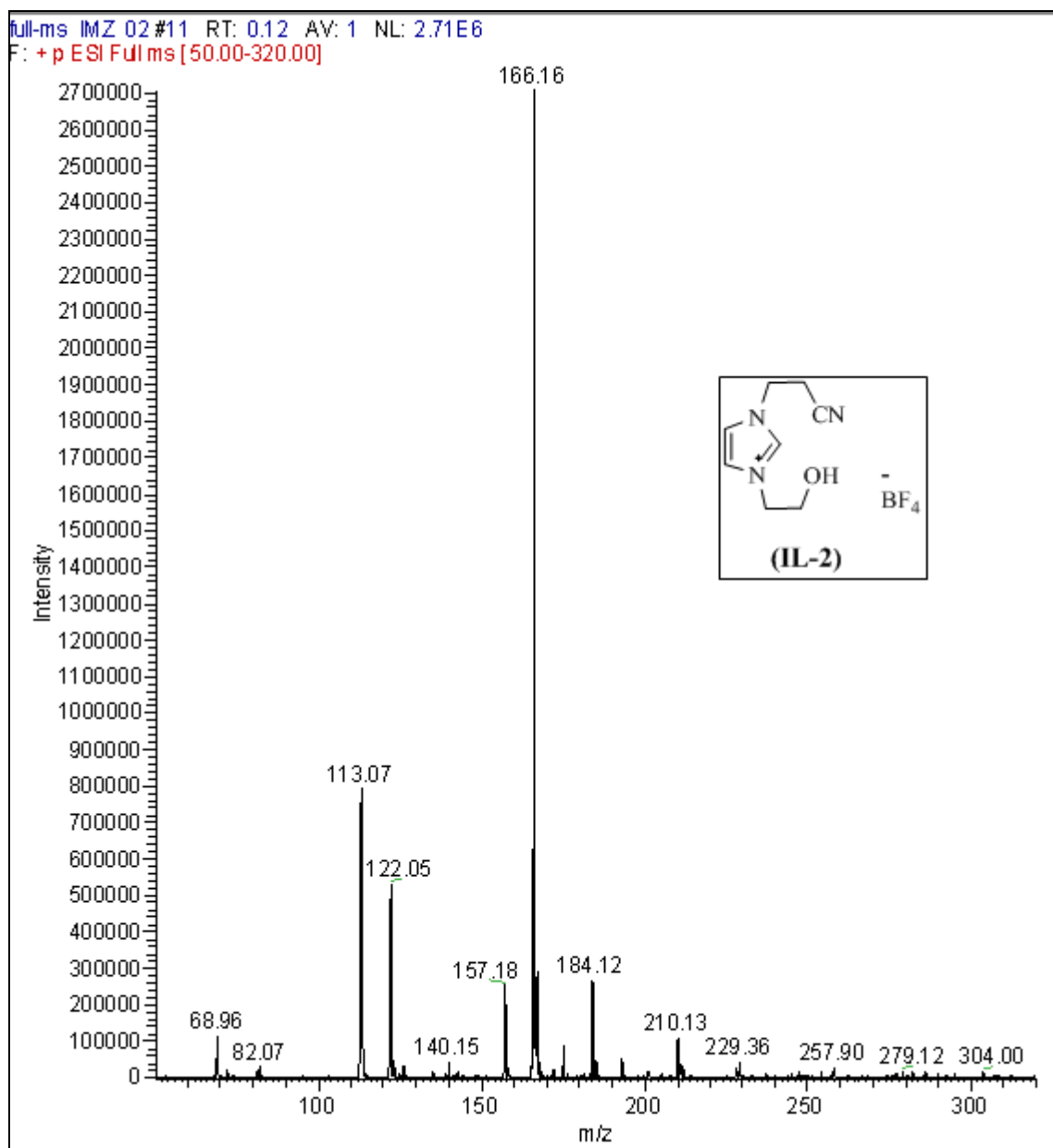
**1) IR of 1-(2-cyanoethyl)-3-(2-hydroxyethyl)-1H-imidazol-3-ium tetrafluoroborate(IL-2)**

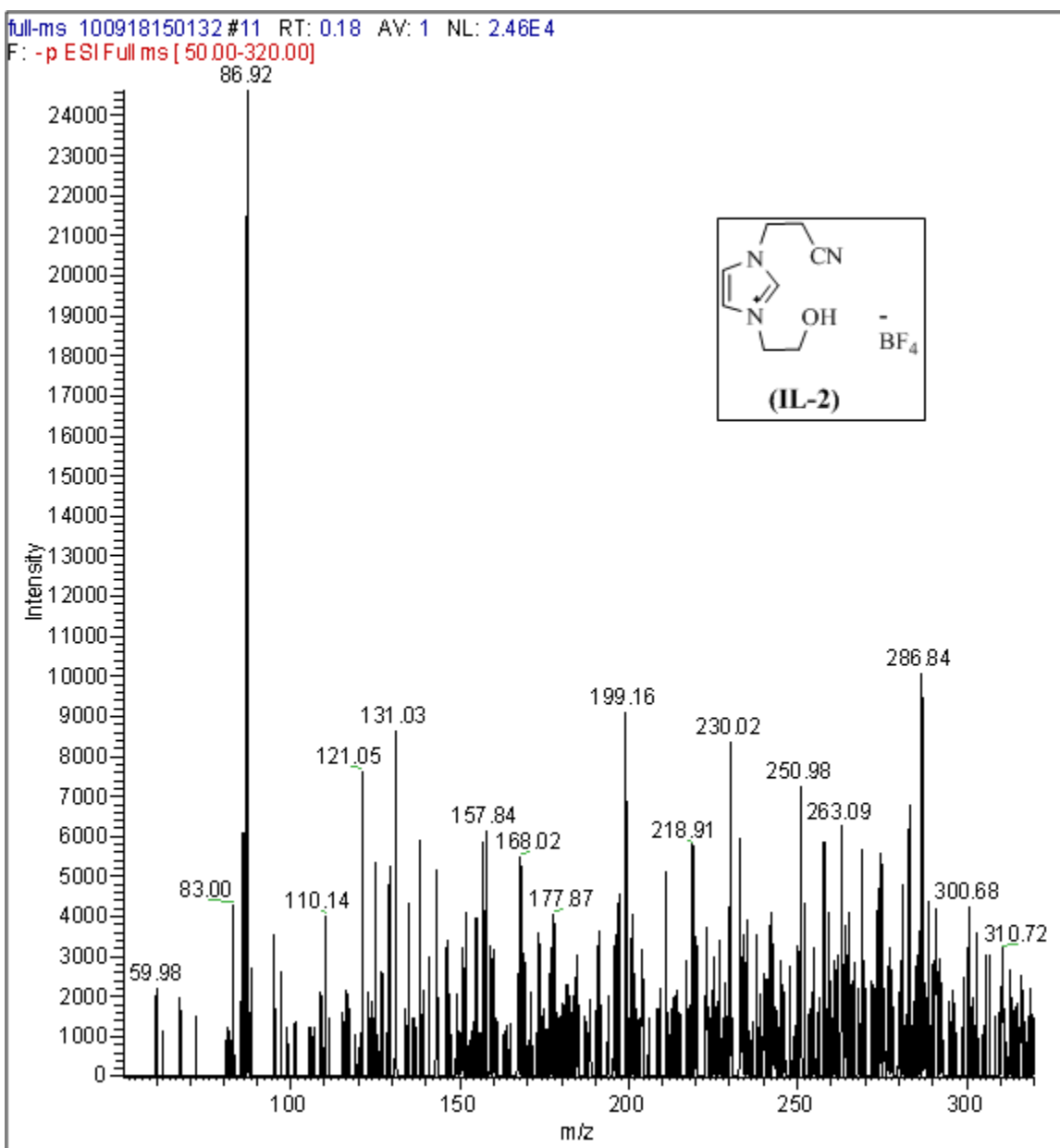
2) <sup>1</sup>H-NMR of 1-(2-cyanoethyl)-3-(2-hydroxyethyl)-1H-imidazol-3-ium  
Tetrafluoroborate (IL-2)



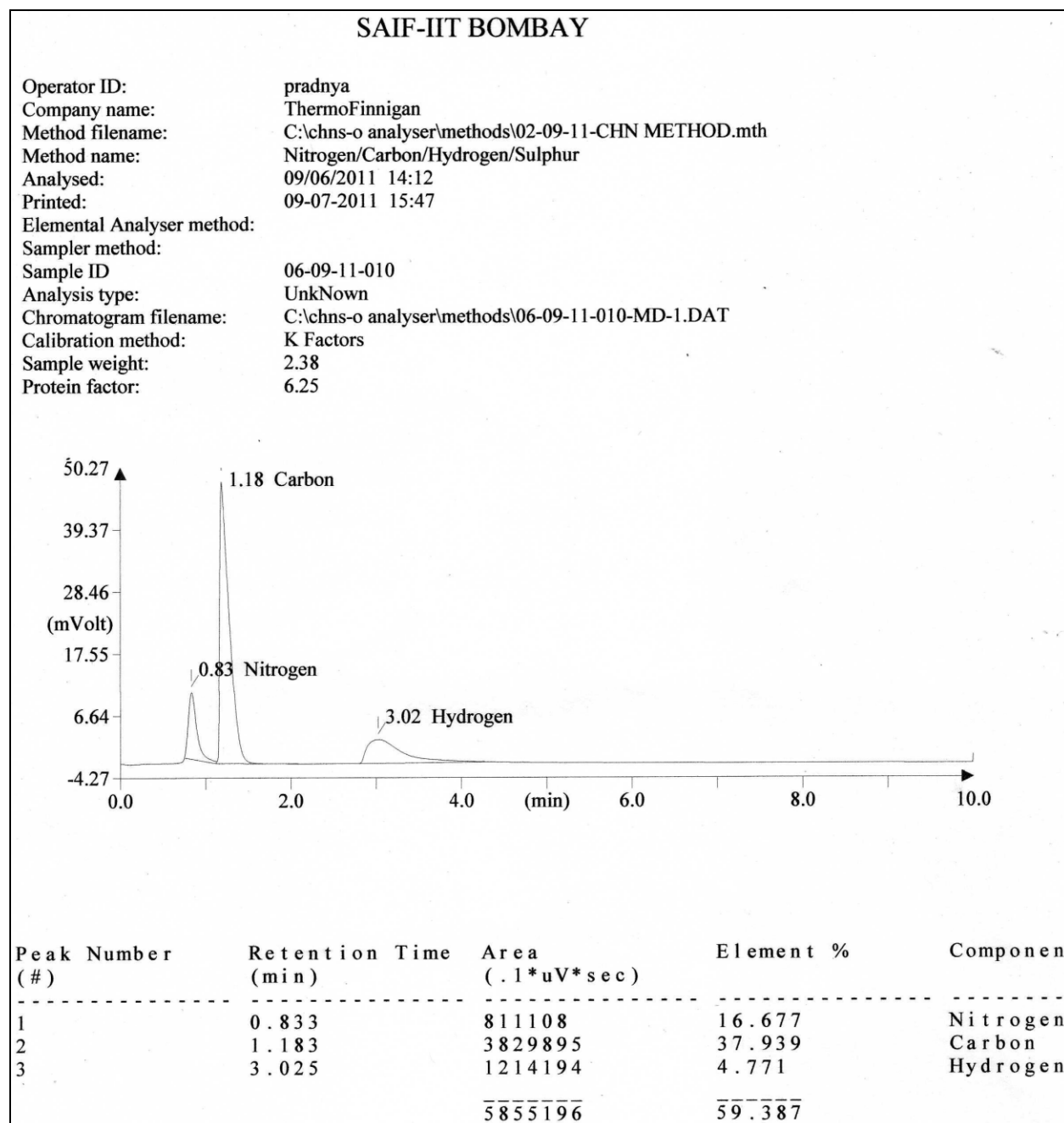
### 3) $^{13}\text{C}$ -NMR of 1-(2-cyanoethyl)-3-(2-hydroxyethyl)-1H-imidazol-3-ium Tetrafluoroborate (IL-2)

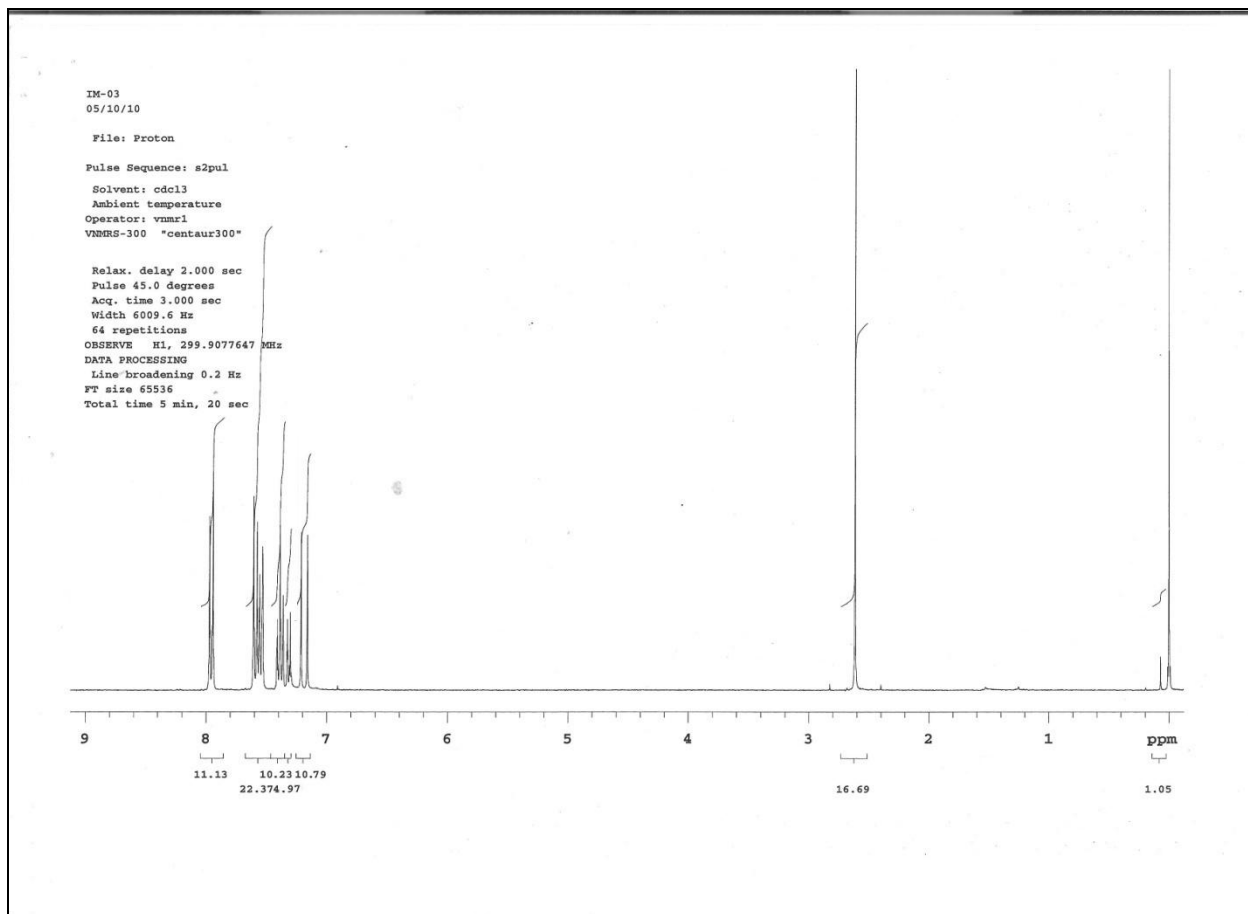


**4) Mass spectra ( $M^+/z$ ) of 1-(2-cyanoethyl)-3-(2-hydroxyethyl)-1H-imidazol-3-ium Tetrafluoroborate(IL-2)**

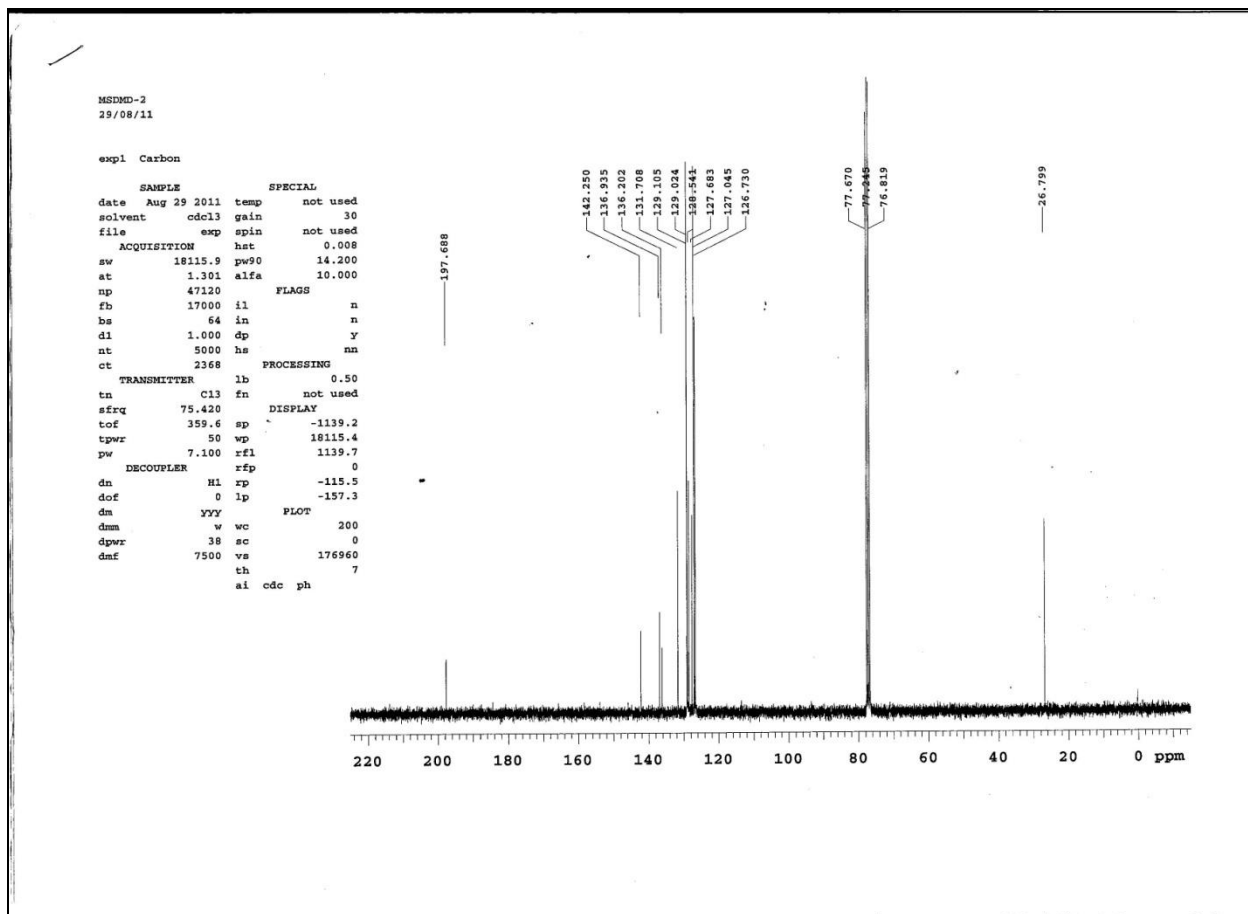
**5) Mass spectra (M/z) of 1-(2-cyanoethyl)-3-(2-hydroxyethyl)-1H-imidazol-3-ium  
Tetrafluoroborate(IL-2)**

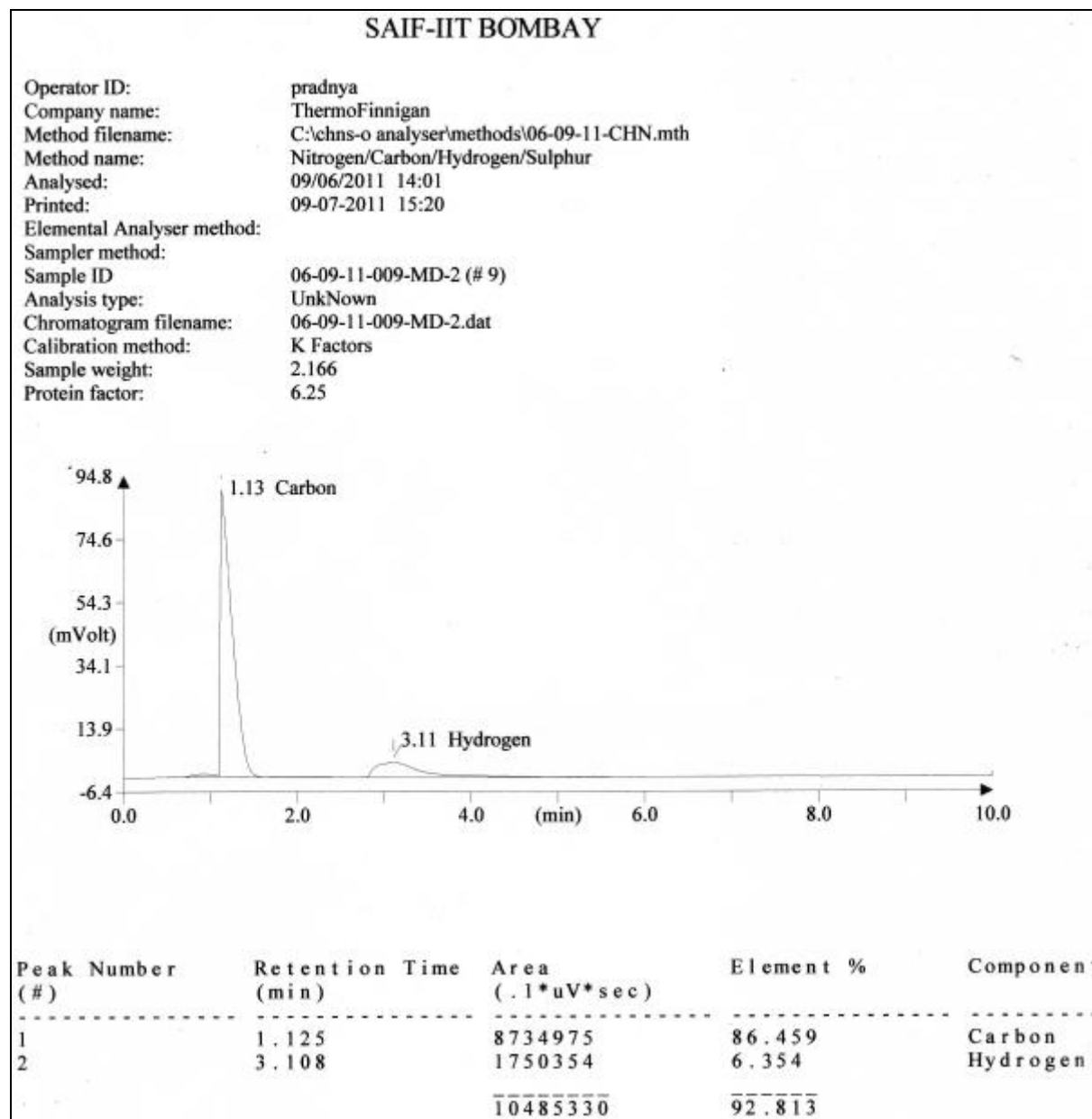
**6) Elemental Analysis of 1-(2-cyanoethyl)-3-(2-hydroxyethyl)-1H-imidazol-3-ium  
Tetrafluoroborate (IL-2)**



7)  $^1\text{H-NMR}$  spectra of (*E*)-4-Acetyl stilbene (5)



8)  $^{13}\text{C}$ -NMR spectra of (*E*)-4-Acetyl stilbene (5)

9) Elemental Analysis of (*E*)-4-Acetyl stilbene (5)

10)  $^1\text{H-NMR}$  spectra of (*E*)-Ethyl 3-(4-acetylphenyl) acrylate (1)