

 MLF Experimental Report	提出日 Date of Report
課題番号 Project No. 2014A0296 実験課題名 Title of experiment Structure of "ionic liquid" - water mixtures 実験責任者名 Name of principal investigator M.-L. Saboungi 所属 Affiliation IMPMC, Paris, France	装置責任者 Name of responsible person T.Otomo, K. Suzuya 装置名 Name of Instrument/(BL No.) 21 実施日 Date of Experiment May 24-25, 2014

試料、実験方法、利用の結果得られた主なデータ、考察、結論等を、記述して下さい。(適宜、図表添付のこと)
 Please report your samples, experimental method and results, discussion and conclusions. Please add figures and tables for better explanation.

<p>1. 試料 Name of sample(s) and chemical formula, or compositions including physical form.</p> <p>1-octyl-3-methylimidazolium tetrafluoroborate - water mixture, (C₁₂H₂₃N₂BF₄)(1-x)(H₂O)_x, x = 0, 0.5, 1 1-octyl-3-methylimidazolium tetrafluoroborate – heavy water mixture, (C₁₂H₂₃N₂BF₄)(1-x)(D₂O)_x, x = 0.5, 1 1-octyl-3-methylimidazolium chloride - water mixture, (C₁₂H₂₃N₂Cl)(1-x)(H₂O)_x, x = 0, 0.5 1-octyl-3-methylimidazolium chloride – heavy water mixture, (C₁₂H₂₃N₂Cl)(1-x)(D₂O)_x, x = 0.5 Liquid samples</p>

<p>2. 実験方法及び結果 (実験がうまくいかなかった場合、その理由を記述してください。) Experimental method and results. If you failed to conduct experiment as planned, please describe reasons.</p> <p>The measurements were performed satisfactorily. However, it was not possible to obtain reliable structural information due to the high incoherent scattering from the H atoms in the samples. We hope to repeat the experiment with deuterated ionic liquids</p>
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2. 実験方法及び結果(つづき) Experimental method and results (continued)

Blank area for experimental method and results.