


実験報告書様式(一般利用課題・成果公開利用)

(※本報告書は英語で記述してください。ただし、産業利用課題として採択されている方は日本語で記述していただいても結構です。)

 MLF Experimental Report	提出日 Date of Report 28 Feb 2013
課題番号 Project No. 2012B0050 実験課題名 Title of experiment Synergistic adsorption of frother binary mixture at air/water interface 実験責任者名 Name of principal investigator Dr. Phan M Chi 所属 Affiliation Curtin University, Australia	装置責任者 Name of responsible person Dr. Norifumi L. Yamada 装置名 Name of Instrument/(BL No.) SOFIA/ BL16 実施日 Date of Experiment 8 to 14 Dec 2012

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.

1. 試料 Name of sample(s) and chemical formula, or compositions including physical form.

Deuterated CTAB (dC₁₆hTAB) was prepared in aqueous solution at concentrations from 0.01 to 1.3 mM. The surface excess of d-CTAB at the interface was measured directly by neutron reflectometry using SOFIA reflectometer.

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.

Attached the samples of reflectometry. The reflectivity profiles were fitted using the monolayer model and MOTOFIT software to produce the SLD of the layers, and their thicknesses, and the surface excess.

2. 実験方法及び結果(つづき) Experimental method and results (continued)

