CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2014
DateRun:	04/02/2014
Experimenters:	Jason Marshall
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Liquid
PartType:	Coupon
Contaminants:	Chemical
Cleaning Methods:	
Analytical Methods:	Surfactant Titration
Purpose:	To train staff on how to titrate quat based disinfectant product for QC
Experimental Procedure:	Conducted training of lab technician at Tropical on the Standard Operating Procedure for Quality Control of Quaternary Based Products. Went over Electrode Preparation, Preparation of sodium dodecyl sulfate (SDS) Titrant, Burette Preparation, ample Preparation for CONCENTRATE and RTU. Materials 2-Propanol (isopropyl alcohol) Deionized or Distilled water 2',7'-Dichlorofluorescein indicator 0.1% in 2-Propanol Glacial acetic acid 0.1N Silver Nitrate ($AgNO_3$) solution, standardized 0.1N Sodium Hydroxide (NaOH) solution, standardized (for Amine Hydrochloride determination) Phenophthalein indicator, 1% in 2-Propanol (for Amine Hydrochloride determination) 2 burets, 1 for $AgNO_3$ and 1 for NaOH Procedure Make a 1:1 solution of 2-Propanol and Deionized or Distilled water Accurately weigh to 0.001g of sample into a 250 mL Ehrlenmeyer flask Add 50mL of the 1:1 solution of 2-Propanol and Deionized or Distilled water Add 6 drops of 0.1% 2',7'-Dichlorofluorescein indicator Add 1-2 drops of Glacial acetic acid, or amount sufficient to remove the fluorescence Titrate with 0.1N $AgNO_3$ to the pink end-point Procedure for Amine Hydrochloride (Amine HCl) determination Accurately weigh to 0.001g of sample into a 250 mL Ehrlenmeyer flask Add 50mL of Deionized or Distilled water Add 6 drops of 1% Phenophthalein indicator Titrate with 0.1N NaOH to the pink end-point
Results:	
Summary:	
Conclusion:	