CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	1996
DateRun:	02/12/1996
Experimenters:	Jay Jankauskas
ClientType:	Electronics Manufacturer
ProjectNumber:	Project #1
Substrates:	Plastic, Electronics
PartType:	Coupon
Contaminants:	Adhesive, Coatings
Cleaning Methods:	Immersion/Soak
Analytical Methods:	Black light
Purpose:	Removal of conformal coatings
Experimental Procedure:	The purpose of this trial is to find a chemistry that removes conformal coatings for Electronics Manufacturer. 4 Circuit boards were coated with the Humiseal and allowed to cure for six days. One circuit board was cleaned with each chemistry. Cleaning time took place for 10 minutes. Rinsing was performed with DI water at 80 F for 1 minute. The circuit boards were dried under UV light for 20 minutes. The Circuit boards were then evaluated under black light. SUBSTRATE MATERIAL: Circuit Boards CONTAMINANTS: Humiseal 1B31 CONTAMINATING PROCESS USED: Coating applied on with a brush and allowed to set for 6 days
Results:	Positron- The Humiseal was slightly tackey after 10 minutes, non-volatile so it has to be rinsed. Rinsing would have to be performed with a solvent. Ecolink 2005- Removed almost all of the Humiseal. Small deposits remained on the circuit boards. I believe that this is dissolved Humiseal that is deposited on the circuit boards as the Ecolink 2005 evaporates. Looks very positive Impress Wash- After 10 minutes, some of the humiseal was dissolved, the circuit board was immersed for another 10 minutes, but removal was not increased too much. All in all, not to impressive. NMP- Will remove the humiseal, but will have to be rinsed with another solvent. There may be some toxicity questions.

Summary:

Substrates:	Plastic, Electronics				
Contaminants:	Adhesive, Coatings				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
EcoLink	Positron	100		☐	
ISP Technologies	N Methyl Pyrrolidone	100		☑	
EcoLink	2005	100		☑	
Finger Lakes Chemical	Impress Wash	15		☐	

Conclusion: Two chemistries showed potential the Ecolink 2005 and the NMP.