CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004

DateRun: 05/10/2004

Experimenters: Dave Hout

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Solder

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning.

Three products were used at full strength and four products were heated to 130 F on a hot plate. Twenty-one preweighed coupons were coated with Emerson & Cuming Eccobond Solder 59c and allowed to dry for a half an hour and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Efficiencies were calculated.

Results:

Summary:

Substrates:	Aluminum				
Contaminants:	Solder				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
ISP Technologies	Ship Shape Resin Cleaner	100	4.68	☐	
Invista S.a.r.l	Flexisolv DBE 3 ester	100	7.99	☐	
EcoLink	VG 151	100	1.61	☐	
US Polychem Corporation	Polychem A 2000 P	5	2.06	☐	
US Polychem Corporation	Polychem Ultra CR	5	13.10	☐	

Conclusion: All products were ineffective at removing the contaminant.