CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2023
DateRun:	08/22/2023
Experimenters:	Tatyanna Moreland Junior
ClientType:	Lab
ProjectNumber:	Project #1
Substrates:	Aluminum, Glass/Quartz, Plastic, Stainless Steel
PartType:	Coupon
Contaminants:	Adhesive
Cleaning Methods:	Manual Wipe
Analytical Methods:	Visual
Purpose:	To evaluate the effectiveness of Case Medical cleaner compared to another known cleaner at removing adhesive from Aluminum, Glass, Plastic, and Stainless Steel.
Experimental Procedure:	2 sets of 3 coupons for each substrate had autoclave tape applied to them and were placed in an oven for 30 minutes at 250 F. After that time the coupons were taken out and the tape was immediately taken off so the adhesive would stay on. The coupons were then split up by cleaner (1 set for Case Medical and 1 set for Bitu-Ox NT) and visual ratings for the dirty coupons were taken. They were then cleaned by set with the SLW with 6 sprays of cleaner to a microfiber towel and clean visual ratings taken after.

Results:

Cleaner	Substrate	Dirty Rating			Clean Rating			Average Rating	Average Substrate Rating
Case Medical	Aluminum	5	5	5	5	5	5	5	5
		5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	
	Glass	5	5	5	5	5	5	5	5
		5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	
	Plastic	5	5	5	5	5	5	5	5
		5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	
	Stainless Steel	5	5	5	5	5	5	5	5
		5	5	5	5	5	5	5	
		5	5	5	5	5	5	5	
Bitu-Ox NT	Aluminum	5	5	5	2	1.5	1	1.5	1.5
		5	5	5	2	1.5	1	1.5	
		5	5	5	2	1.5	1	1.5	
	Glass	5	5	5	1.5	2	2.5	2	2
		5	5	5	1.5	2	2.5	2	
		5	5	5	1.5	2	2.5	2	
	Plastic	5	5	5	1.5	1.5	1	1.33	1.33
		5	5	5	1.5	1.5	1	1.33	
		5	5	5	1.5	1.5	1	1.33	
	Stainless Steel	5	5	5	2	1.5	2	1.83	1.83
		5	5	5	2	1.5	2	1.83	
		5	5	5	2	1.5	2	1.83	

Summary:

Conclusion: Case Medical did not seem to be an effective cleaner whereas Bitu-Ox NT did a very good job getting the adhesive off. For the Bitu-Ox coupons, there was a small bit of adhesive left on the sides the SLW couldn't reach but the parts it could reach were completely or almost completely clean.