CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 09/12/2021

Experimenters: Edward Judge

ClientType: Lab

ProjectNumber: Project #5

Substrates: Ceramics, Plastic, Chrome

PartType: Coupon

Contaminants: Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of Lysol with Hydrogen Peroxide in the removal of Bathroom Soil from various substrates.

Experimental Procedure: A Lysol with Hydrogen Peroxide solution was gathered to begin testing. Then, 3 coupons of each substrate (ceramic, plastic, chrome) were collected and initial weights were taken. Bathroom Soil was applied to each coupon and allowed to air dry for 24 hours. After the 24 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Gardner-scrub Abrasion Tester machine. Wypall cleaning cloths were attached to each of the 3 cleaning blocks used for the test. Each Wypall cloth and all coupons received 2 sprays of the Lysol with Hydrogen Peroxide solution and the Gardner-scrub Abrasion Tester was run for 20 repetitions, simulating 20 manual wipes. Once cleaning concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured.

Results:

Cleaner	Substrate	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG	% Overall
Lysol with Hydrogen Peroxide	Ceramic	0.2117	0.0075	96.46	95.44	91.33
		0.1416	0.0082	94.21		
		0.1650	0.0069	95.82		
	Plastic	0.1867	0.0088	95.29	90.38	
		0.1832	0.0207	88.70		
		0.1752	0.0225	87.16		
	Chrome	0.1868	0.0279	85.06	88.18	
		0.1791	0.0229	87.21		
		0.1640	0.0127	92.26		

Summary:

Conclusion: Lysol with Hydrogen Peroxide was successful in the removal of Bathroom Soil from ceramic, plastic, and chrome substrates.