CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2021
DateRun:	09/14/2021
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 Kaboom cleaner in the removal of Bathroom Soil from various substrates.
Experimental Procedure:	A Kaboom cleaner 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 Kaboom cleaner 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
Kaboom	Ceramic	0.1789	0.0037	97.93	95.38	89.80
		0.1835	0.0077	95.80		
		0.1945	0.0104	94.65		
	Plastic	0.2525	0.0173	93.15	91.27	
		0.1893	0.0199	89.49		
		0.2107	0.0186	91.17		
	Chrome	0.1850	0.0036	98.05	82.74	
		0.2961	0.0838	71.70		
		0.2461	0.0530	78.46		

Summary:

Conclusion: Kaboom cleaner was successful in the removal of Bathroom Soil from ceramic, plastic, and chrome substrates.