CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2021
DateRun:	11/10/2021
Experimenters:	Nicole Kebler, Tatyanna Moreland Junior
ClientType:	Lab
ProjectNumber:	Project #5
Substrates:	Glass/Quartz, Other, Chrome
PartType:	Coupon
Contaminants:	Glass
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric, Visual
Purpose:	To evaluate the effectiveness of the removal of glass soil from chrome, mirror, and glass using Bona cleaner.
Experimental Procedure:	Three coupons of each substrate (chrome, glass, and mirror) were collected and initial weights were taken. Glass 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 Straight-Line Washability (SLW) machine. A KC Wypall cleaning cloth was attached to the cleaning block used for the test. The Wypall cloth and all coupons received 2 sprays of the Bona Cleaner and the SLW machine 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:	Bona cleaner was effective for the removal of glass soil from all three substrates. It had an average effectiveness of 93% for chrome, 92% for mirror and 91% for glass.

Substrate	Initial wt. of cont.	Final wt. of cont	Average	Combined Average
Chome	0.1010	0.0072	92.87	92.89
	0.0905	0.0075	91.71	
	0.1100	0.0065	94.09	
Mirror	0.1025	0.0109	89.37	91.89
	0.0826	0.0056	93.22	
	0.1057	0.0073	93.09	
Glass	0.0677	0.0079	88.33	91.07
	0.0756	0.0064	91.53	
	0.0750	0.0050	93.33	

Summary:

Conclusion: Bona was effective for the removal of glass soil from chrome, glass, and mirror.