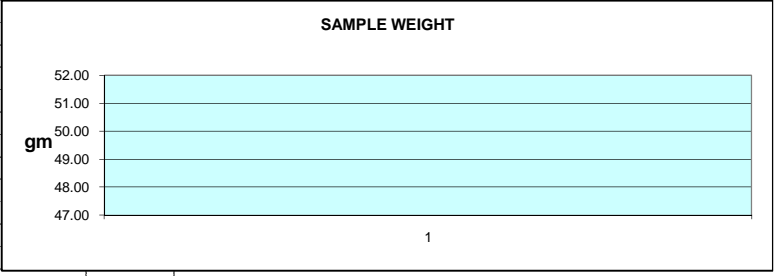
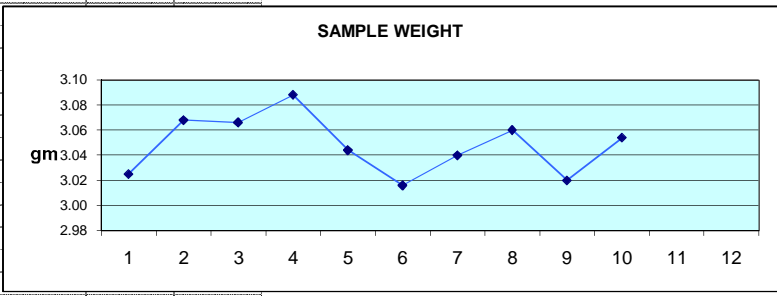
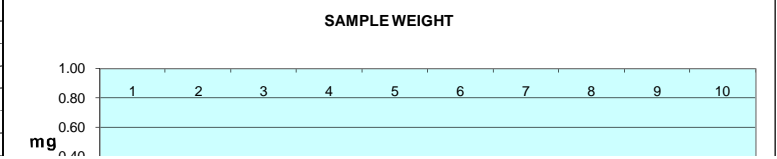


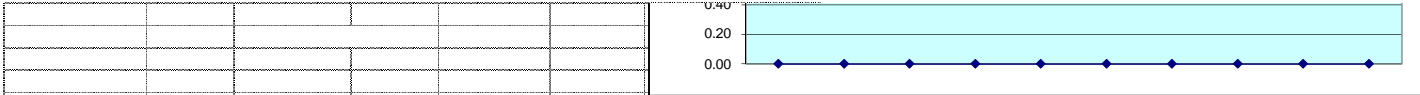
Customer						Date	#####
Material 1	Diamond Powder,			Est. Bulk Density	1.4 gm/cc	Particle size	1 micron
Material 2				Est. Bulk Density		Particle size	
Desired Sample size	3 gm						
Desired accuracy	1.0% Repeatability of samples at various settings				Pipette Size	.375 dia. PIPETTE	

Micrometer setting	Sample weight		Control unit settings		.5 micron filter	
		mg	Vacuum (1in hg)	Air (psi)		
0.9	std	3.0250	6	10		
	scraper	3.0680				
		3.0660				
		3.0880				See Note
		3.0440				
		3.0160				
		3.0400				
		3.0600				See Note
		3.0200				
		3.0540				
	3.0481	Av				
	3.0480	Mean				
	0.0234	Std Dev				



#REF!	Av
#REF!	Mean
#REF!	Std Dev





Notes:
 1. 20 gm sample required reusing the dispensed material to recharge supply vessel
 2. Diamond powder pipetted smoothly.

3. Large variation in particulate size. Sample powder was not graded. >5% was <1 micron
 4. Small amount of particulate matter, <0.5 micron, passed through the 1 micron piston filter into backup filter. .5 micron piston filter used for this test.
 Recommend controlling powder particulate size to >2 micron or using a .5 micron piston filter.

