Test Qualification Plan

- SCM Correlation Data Gathering
 - Loop 4 bin1 units x30
 - Run 100 bin1 units on handler
 - Serialize and test 10 bin1 units
 - Serialize and test 5 reject units
- Ship correlation package from SCM to SCC
- 3. SCC Correlation Data Gathering
 - Loop 4 bin1 units x30
 - Run 100 bin1 units on handler
 - Test 10 already serialized bin1
 - Test 5 already serialized rejects
- 4. SCM/SCC send data to ADGT for Data Crunching and Analysis
- 5. CorL8 Analysis of x30 loop /100 units handler data
 - X30 loop must pass Mean Shift, Sigma Spread and CPK criteria
 - 100 Bin1 Correlation units must pass Mean Shift, Sigma Spread and CPK criteria
 - 10 serialized units must pass bin1 both in SCC and in SCM
 - 5 serialized rejects must fail the same parameter for both SCC and SCM
- Correlation Data Approval
 - For TRB movement to Available with Condition
- 7. Validation lot run handled by SCC

Note: CorL8 is ADI data analysis tool.

Reject Correlation			
Unit	SCM	SCC	
1	TnumX: XXXXX	TnumX: XXXXX	
	TnumX: XXXXX	TnumX: XXXXX	
5	TnumX: XXXXX	TnumX: XXXXX	

Bin1 Correlation			
Unit	SCM	SCC	
1	Pass	Pass	
	Pass	Pass	
10	Pass	Pass	

Correlation Test Criteria(TST00137)		
% Mean Shift Criteria	((SCM_mean - SCC_Mean) / (Upper_Limit - Lower_Limit)) x $100 \le 5$	
Sigma Spread Criteria	(SCC_Sigma / SCM_Sigma) ≤1.300000	
Cpk Criteria	If CPK to the test limits is >10, then test given automatically PASS	



Test Qualification estimated Timeline

Devices	Oct, 2013 to Nov, 2013	Dec,2013 to Apr, 2014	May, 2014
SCM Correlation Data Gathering&Shipment			
SCC Correlation Data Gathering			
Data Review and Approved by ADGT			
Validation Run/TRB Closure			







Reliability Qualification Results of LFCSP package (G700/8290) Automotive Process at ATP

QUALIFICATION RESULTS OF 5X5X0.75 LFCSP				
TEST	CONDITIONS	SAMPLE SIZE	RESULTS	
Highly Accelerated Stress Test (HAST)*	JEDEC JESD22-A110	3 x 77	Pass	
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 77	Pass	
Autoclave (AC)*	JEDEC JESD22-A102	3 x 77	Pass	
Solder Heat Resistance (SHR)*	ADI-0049	3 x 11	Pass	

^{*}These samples were subjected to preconditioning (per J-STD-020 Level 3) prior to the start of the stress test. Level 3 preconditioning consists of the following: Bake: 24 hrs @ 125°C, Soak: Unbiased Soak: 192 hrs @ 30°C, 60%RH, Reflow: 3 passes through an oven with a peak temperature of 260°C. TCT samples passed wire-pull test post 500cycles.

RILL OF I	MATERIALS					
Cononia	Material List	Wire	DIE ATTACH EPOXY MOLD COMPOU			MPOUND
Generic		Size	FROM	ТО	FROM	ТО
ADV7180 ADV7182 ADV7280 ADV7281	ADV7180BCP32Z ADV7180BCP32Z-RL ADV7180KCP32Z ADV7180KCP32Z-RL ADV7180KCP32Z-RL ADV7182WBCPZ ADV7182WBCPZ-RL ADV7280BCPZ-M-RL ADV7280BCPZ-M-RL ADV7280BCPZ-M-RL ADV7280KCPZ ADV7280KCPZ ADV7280KCPZ-M-RL ADV7280KCPZ-M-RL ADV7280KCPZ-M-RL ADV7280WBCPZ-RL ADV7280WBCPZ-RL ADV7280WBCPZ-RL ADV7280WBCPZ-M-RL ADV7280WBCPZ-M-RL ADV7280WBCPZ-M-RL ADV7281WBCPZ-MA ADV7281WBCPZ-MA ADV7281WBCPZ-MA-RL	1.0 mil	ABLESTIK 3230	ABLESTIK 8290	SUMITOMO G770	

ADV7282WBCPZ-M-RL ADV7282WBCPZ-RL

AD55/055Z-0 AD55/055Z-0RL