



Expertise Applied | Answers Delivered

Littelfuse, WX
East 1# Zhen Fa 6 Road
Shuo Fang Industrial Park
Wuxi, Jiangsu 214142

Product Qualification Report

To: Those who may concern

From: Haipeng Xu, Senior Product Engineer, Littelfuse, Wuxi

Date: Feb 12th, 2020 – Rev.A

Subject: **Qualification Test Result for 2nd Plating Source Suyang of Surface Mounted Automotive/Hi-rel TVS in Wuxi Site LFPCN41342**

Purpose:

This report is to inform the successful qualification test results of plating 2nd source Suyang associated with surface mounted automotive/Hi-rel TVS in Wuxi site.

Conclusion:

According to the qualification result, Littelfuse concluded that Suyang is qualified as the 2nd plating source for surface mounted automotive/Hi-rel TVS in Wuxi site.

Best Regards,

Haipeng Xu

Senior Product Engineer
Littelfuse Semiconductor

1. Qualification Test Vehicle

Part Number	Package Type	Product Type
TPSMB200CA	SMB	automotive
SMBJ16A-HRA	SMB	hi-rel
SMBJ30CA-001	SMB	hi-rel
TPSMD22A	SMC	automotive
TPSMC47CA	SMC	automotive
SMDJ7.5CA-HRA	SMC	hi-rel
SLD8S22A	SM-TO263	automotive

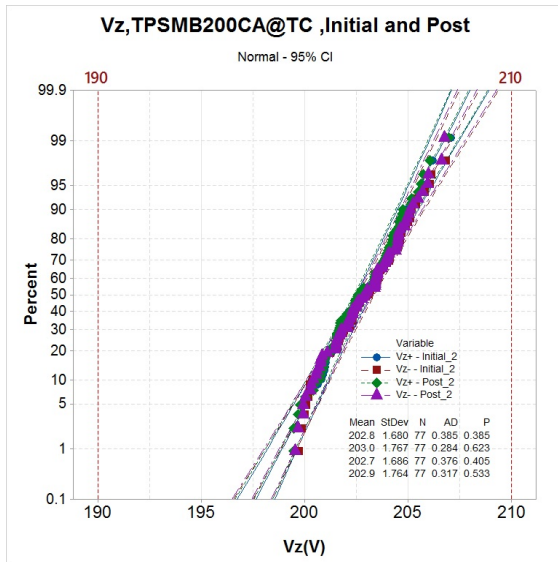
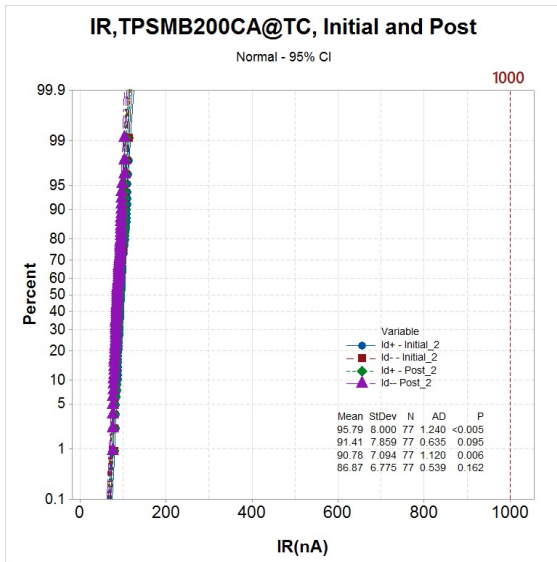
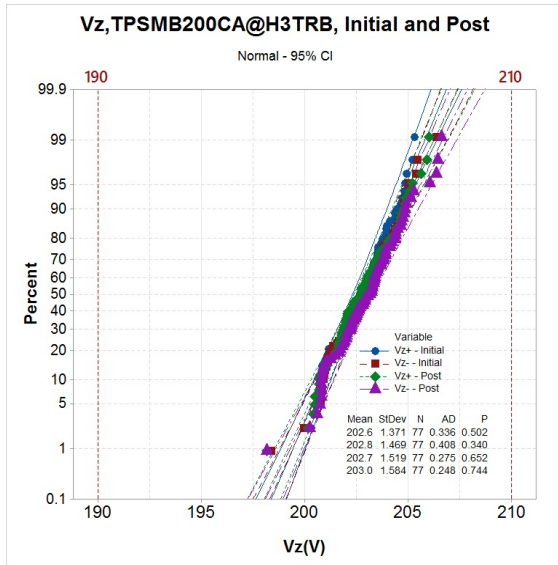
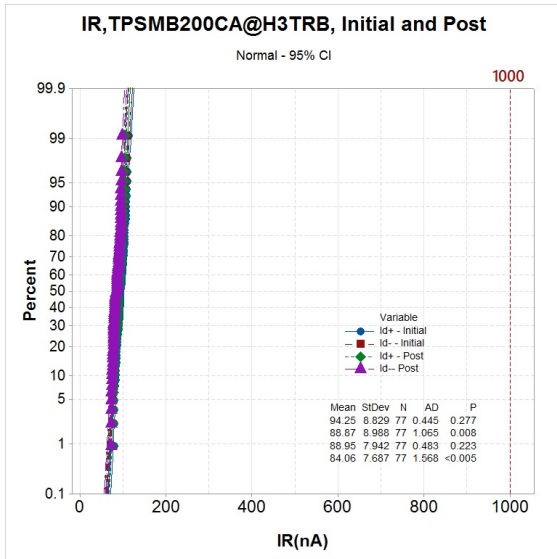
2. Qualification Test Items and Result Summary

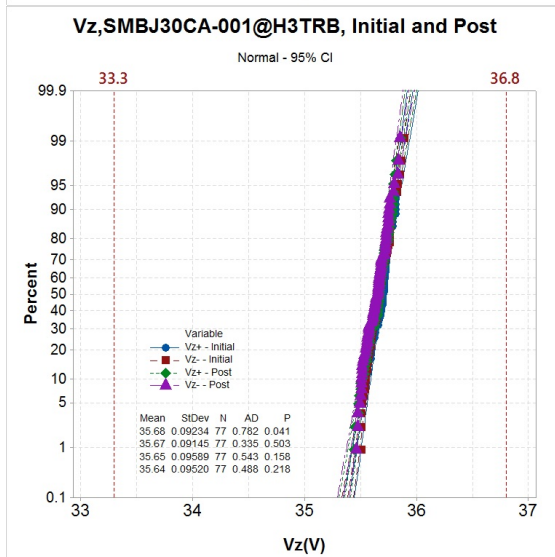
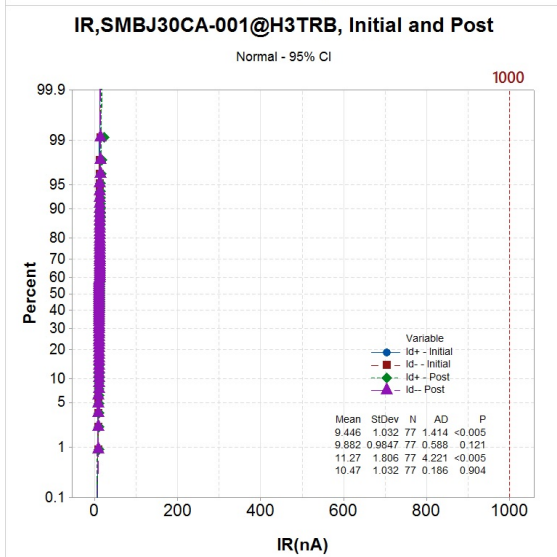
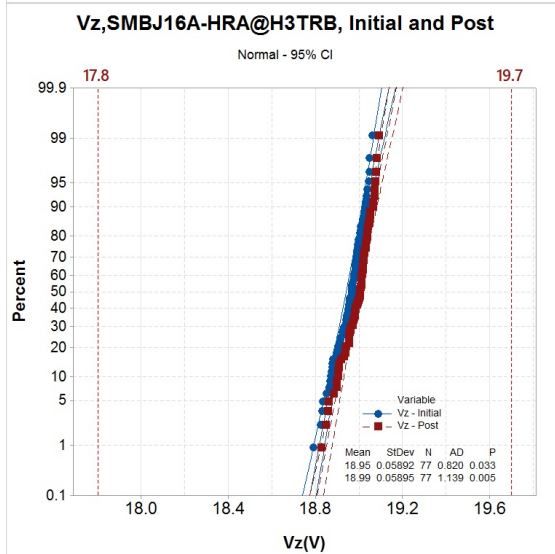
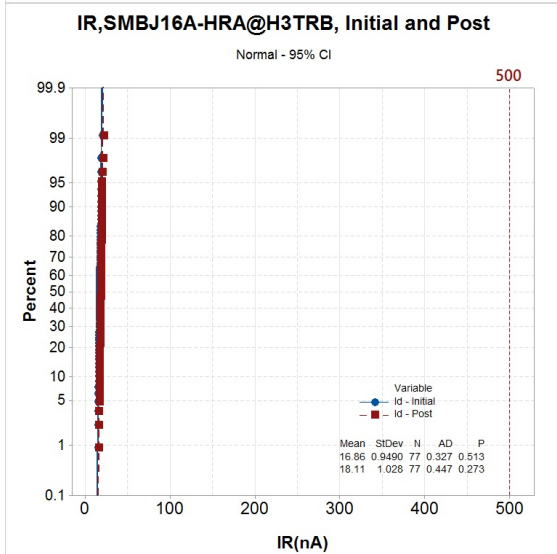
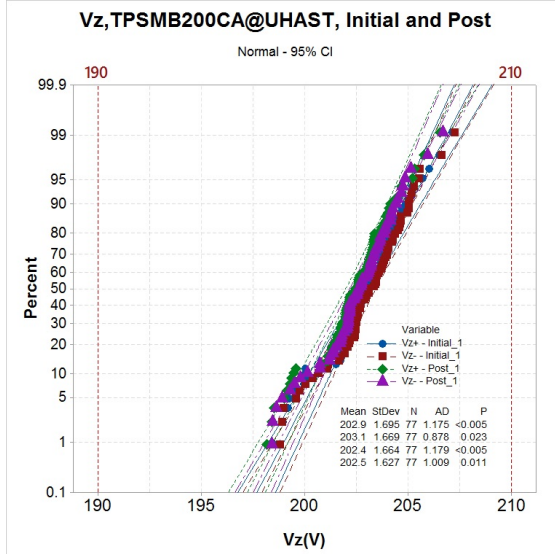
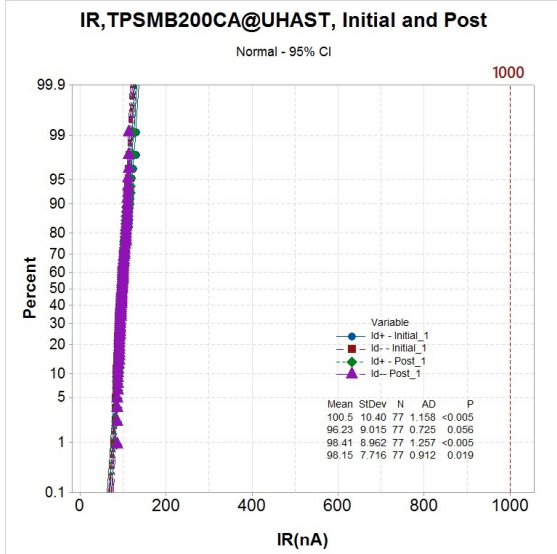
Reliability Test	Part Number	S. S	Test Condition	Test Ref #	Ref. Spec	Result Fail/Total
Pre-conditioning	TPSMB200CA	231	24hr 125°C bake, 168hrs 85°C/85% humidity storage, 3 times Reflow	127603	JESD22A-113	0/1155
	SMBJ16A-HRA	77		128412		
	SMBJ30CA-001	77		128846		
	TPSMD22A	231		130455		
	TPSMC47CA	154		127282		
	SMDJ7.5CA-HRA	154		128846		
	SLD8S22A	231		130160		
High Humidity High Temp. Reverse Bias (H3TRB)	TPSMB200CA	77	TA: 85°C, RH: 85%, 1000hr, Reverse biased at V _R or max 100V	127603	JESD22A-101	0/539
	SMBJ16A-HRA	77		128412		
	SMBJ30CA-001	77		128846		
	TPSMD22A	77		130455		
	TPSMC47CA	77		127282		
	SMDJ7.5CA-HRA	77		128846		
	SLD8S22A	77		130160		
Unbiased Highly Accelerated Stress Test (UHAST)	TPSMB200CA	77	96 hours at TA=130°C/85%RH.	127603	JESD22A-118	0/385
	TPSMD22A	77		130455		
	TPSMC47CA	77		127282		
	SMDJ7.5CA-HRA	77		128846		
	SLD8S22A	77		130160		
Temperature Cycling (TC)	TPSMB200CA	77	TA: -55°C to +150°C, dwell time >15mins, 1,000 cycle)	127603	JESD22A-104	0/231
	TPSMD22A	77		130455		
	SLD8S22A	77		130160		
Solderability	TPSMB200CA	10	245°C ± 5°C, 5 ± 0.5s	TINPWW001-F3	J-STD002	0/70
	SMBJ16A-HRA	10				
	SMBJ30CA-001	10				
	TPSMD22A	10				
	TPSMC47CA	10				
	SMDJ7.5CA-HRA	10				
	SLD8S22A	10				

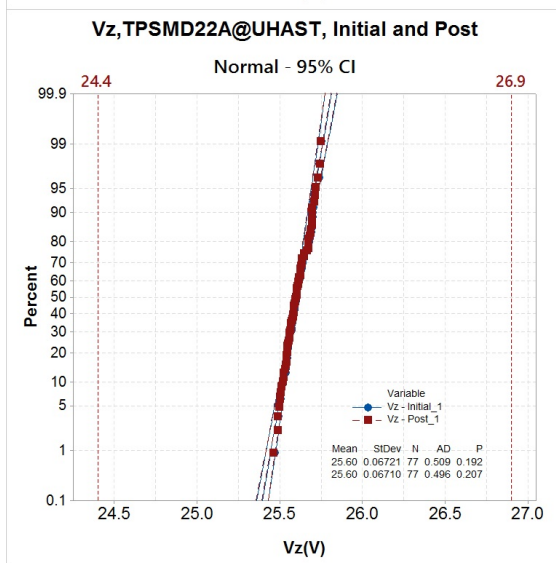
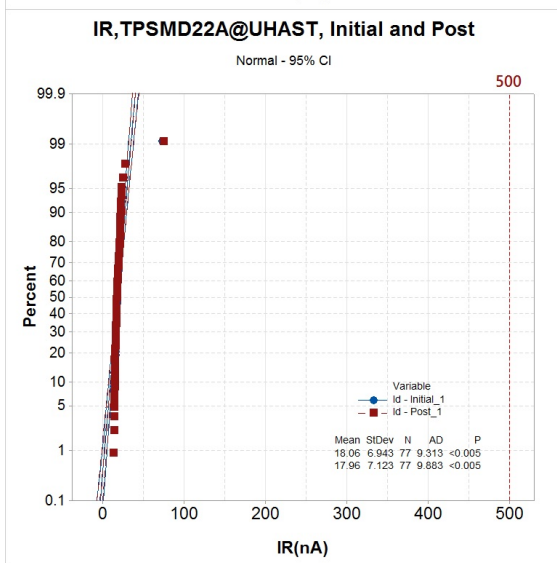
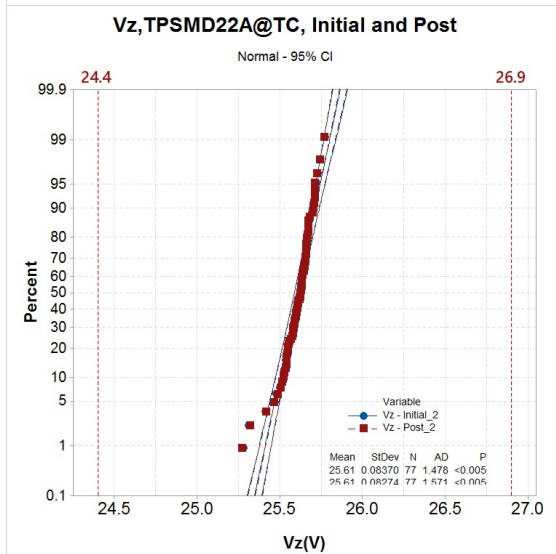
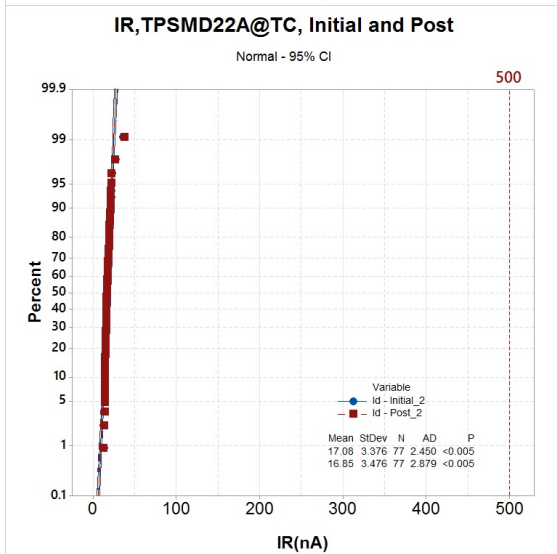
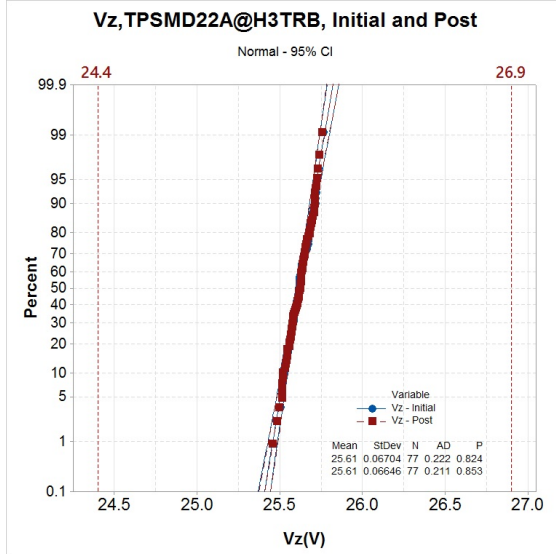
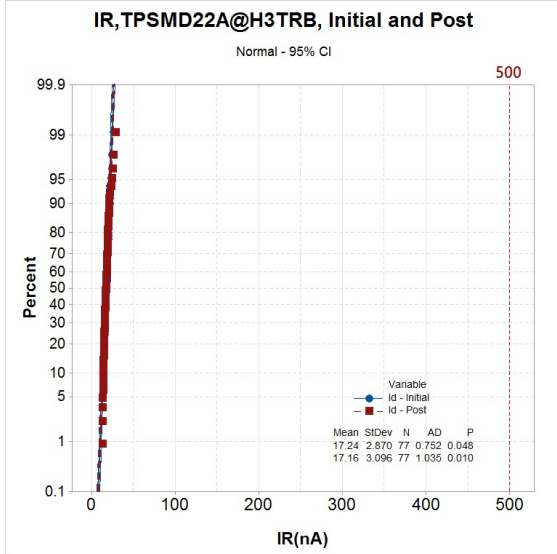
Appendix 1: Leakage drift and distribution in stress tests

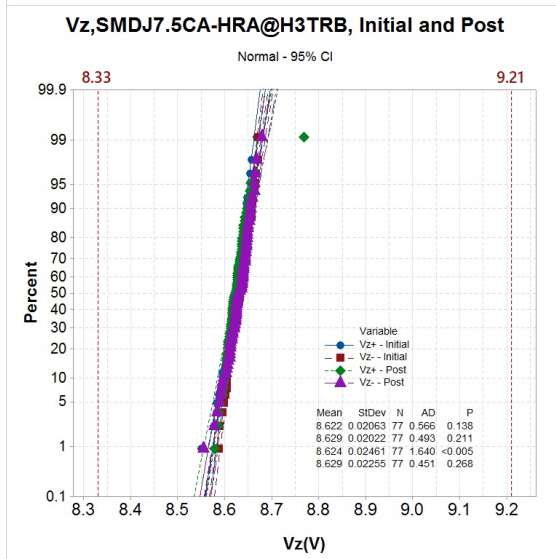
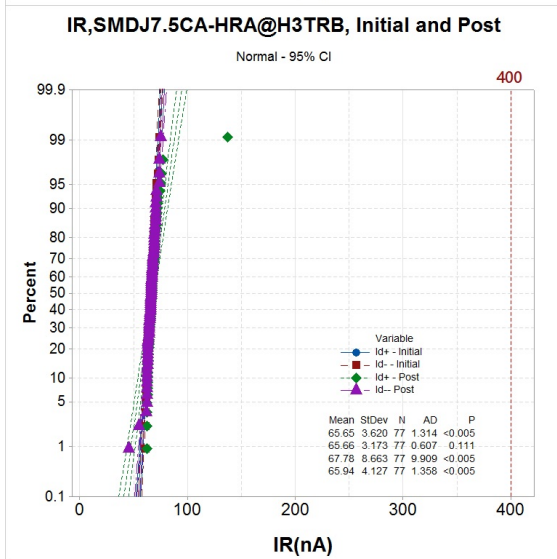
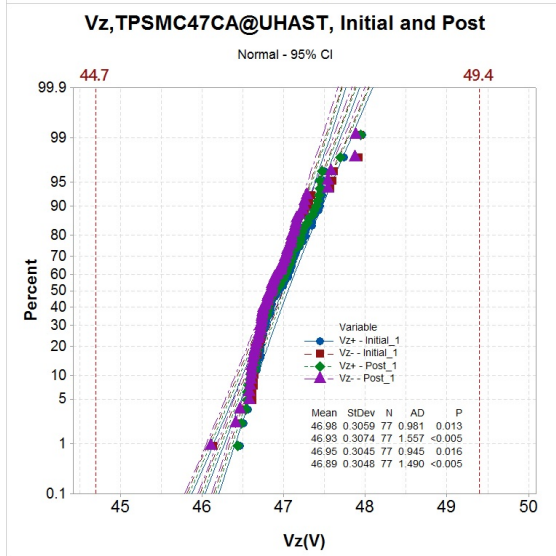
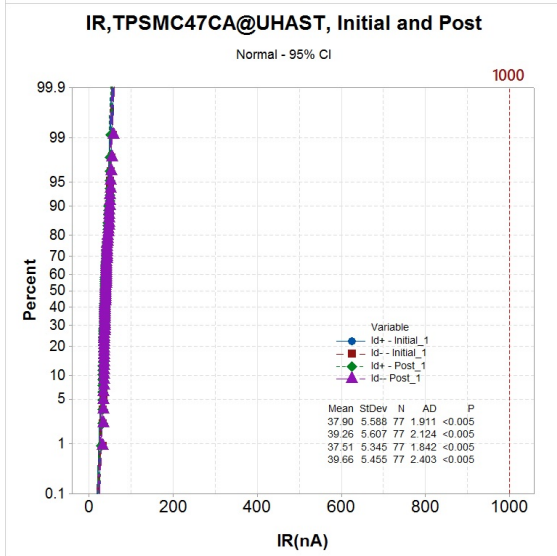
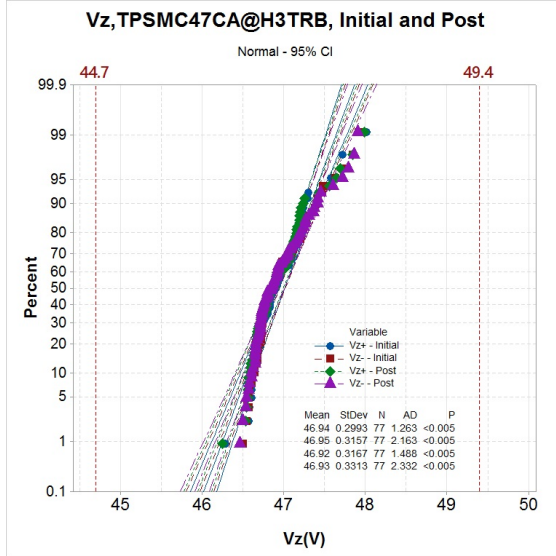
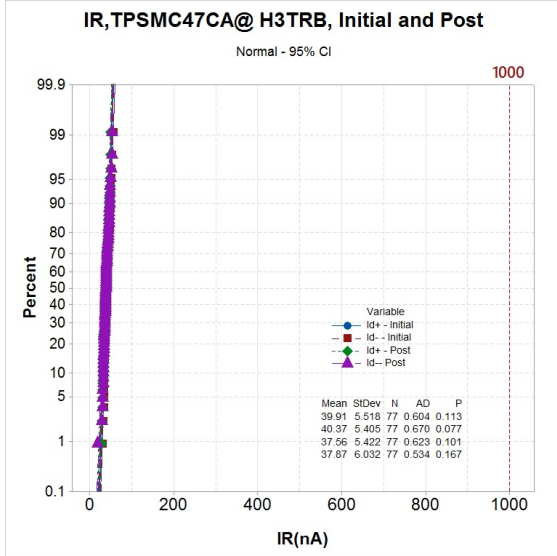
All qual vehicles pass reliability test and meet the drift requirement of AEC-Q101.

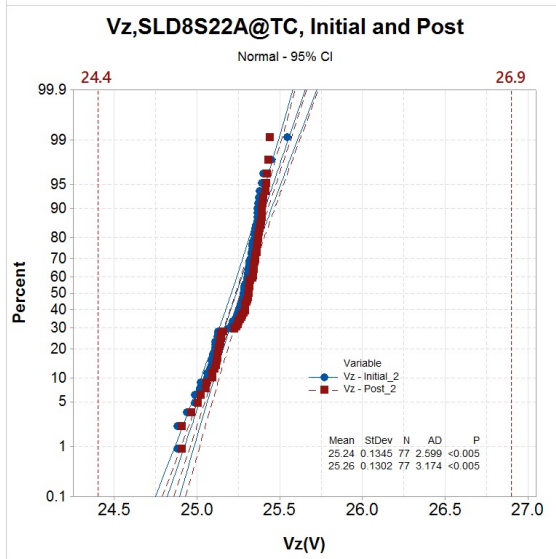
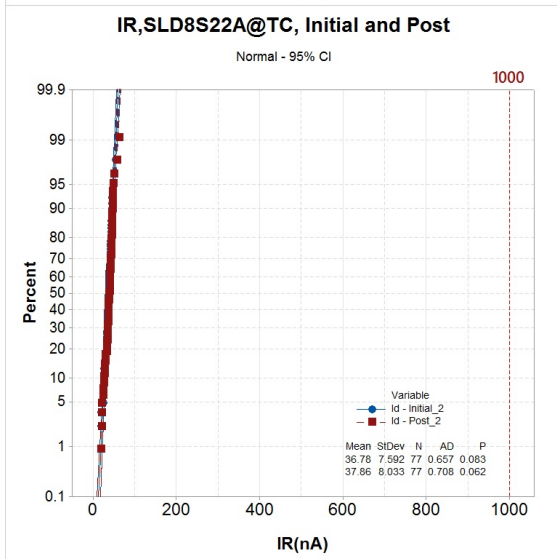
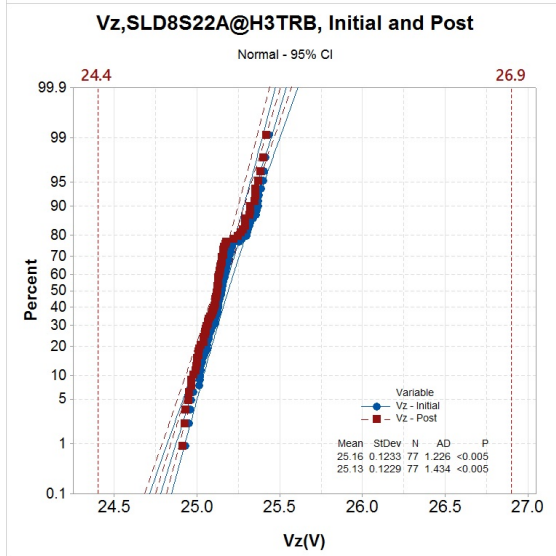
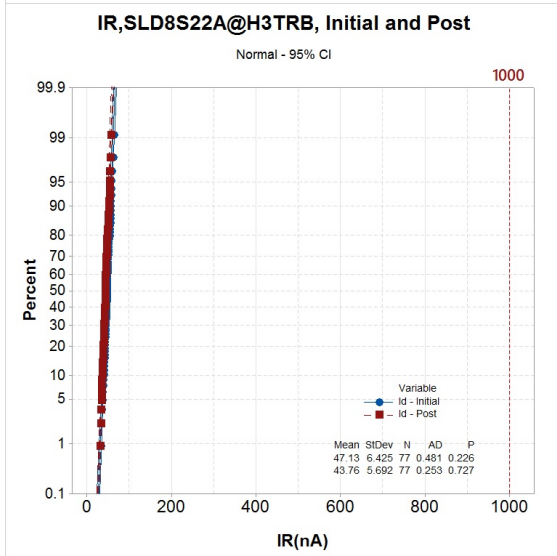
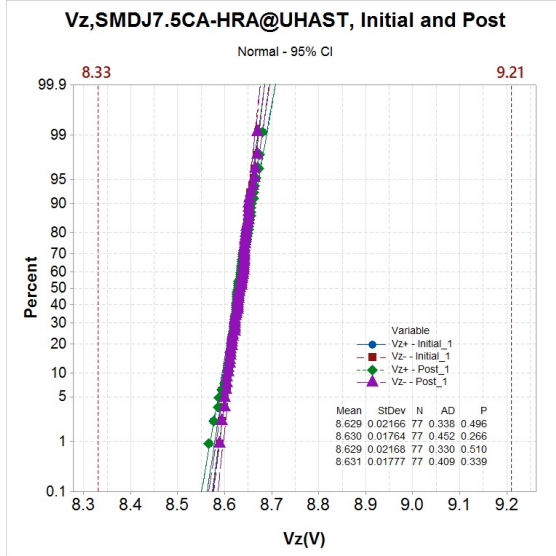
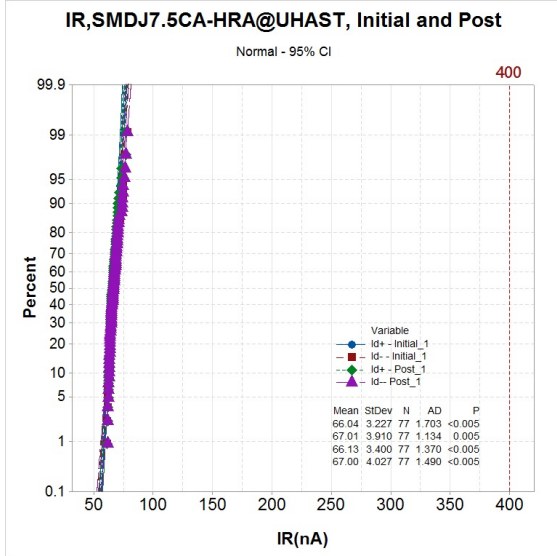
Note: The reference line is equal to or tighter than the specification defined in datasheet.

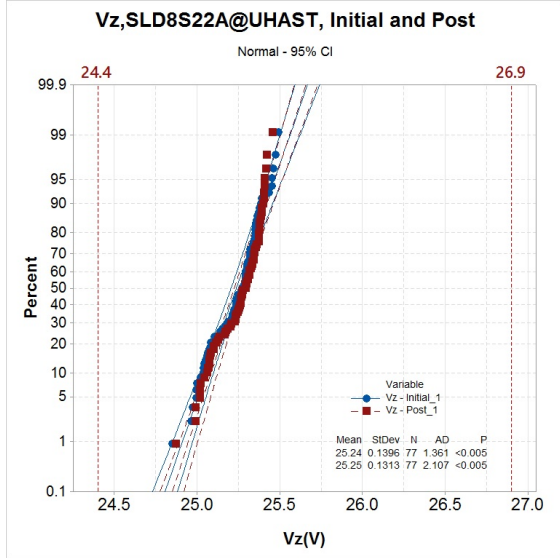
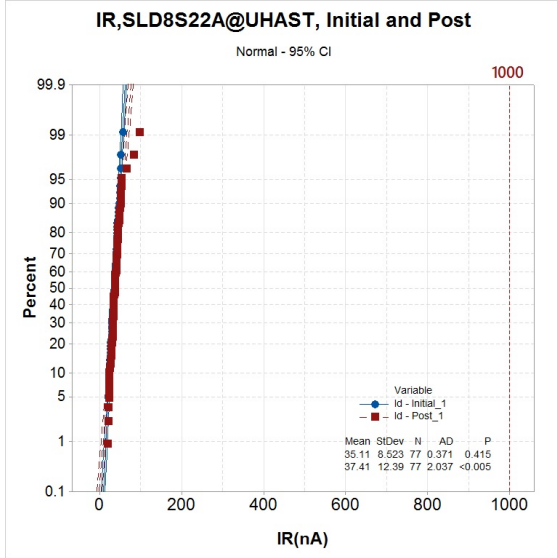














Certificate of Registration

This certifies that the Quality Management System of

Jiangyin Sunny Orient Technology Co.,Ltd.

No.8-6, Xiangyang Road, Xiangyang Village, Huashi Town,
Jiangyin City, Jiangsu Province, China214421

Has been assessed by NSF-ISR and found to be in conformance to the following standard(s):

IATF 16949:2016

Scope of Registration:
Manufacture of Electroplate Tin Parts

Exclusions: Product Design

	IATF Certificate Number: 0341773 Certificate Number: CNIAIF035193 Certificate Issue Date: 08-NOV-2018 Registration Date: 03-NOV-2018 Expiration Date*: 02-NOV-2021	 Carl Blazik, Director, Technical Operations & Business Units, NSF-ISR, Ltd.
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 *Company is audited for conformance at regular intervals. To verify registration call (888) NSF-9000 or visit our web site at www.nsf-ISR.org



Certificate of Approval

This is to certify that the Management System of:

Jiangyin Sunny Orient Technology Co., Ltd.

No.1 Xiangyang Road, Xiangyang Village, Huashi Town, Jiangyin City, Jiangsu Province 214421, China

Unified Social Credit Code: 9132020057818605902

has been approved by LRQA to the following standards:

ISO 9001:2015
GB/T 19001-2016



Rhett Wang - Area Operations Manager, Greater China
 Issued by: Lloyd's Register Quality Assurance (Shanghai) Co., Ltd.
 for and on behalf of: Lloyd's Register Quality Assurance Limited

Current issue date: 11 December 2018
 Expiry date: 10 December 2021
 Certificate identity number: 10157064

Original approval(s):
 ISO 9001 – 11 December 2012

Approval number(s): ISO 9001 – 0071560

The scope of this approval is applicable to:
 Assembly and testing of semiconductor discrete components and integrated circuits.



The certificate can be checked for validity on CMAA website (www.cmaa.gov.cn) 30 working days after the date of issuance. This approval is subject to surveillance assessment carried out in accordance with the LRQA assessment and certification procedures.
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Appendix 2: Affected PN list

TPSMB			TPSMB-VR		
TPSMB7.5A	TPSMB56CA	TPSMB300CA-A	TPSMB6.5A-VR	TPSMB36A-VR	TPSMB160A-VR
TPSMB8.2A	TPSMB58A	TPSMB350A-A	TPSMB7.0A-VR	TPSMB36CA-VR	TPSMB160CA-VR
TPSMB9.1A	TPSMB58CA	TPSMB350CA-A	TPSMB7.5A-VR	TPSMB40A-VR	TPSMB170A-VR
TPSMB10A	TPSMB62A	TPSMB400CA-A	TPSMB8.0A-VR	TPSMB40CA-VR	TPSMB170CA-VR
TPSMB10CA	TPSMB62CA	TPSMB440CA-A	TPSMB8.5A-VR	TPSMB43A-VR	TPSMB180A-VR
TPSMB11A	TPSMB64A	TPSMB400A-A	TPSMB8.5CA-VR	TPSMB43CA-VR	TPSMB180CA-VR
TPSMB11CA	TPSMB64CA	TPSMB440A-A	TPSMB9.0A-VR	TPSMB45A-VR	TPSMB188A-VR
TPSMB12A	TPSMB68A	TPSMB480A-A	TPSMB9.0CA-VR	TPSMB45CA-VR	TPSMB188CA-VR
TPSMB12CA	TPSMB68CA	TPSMB480CA-A	TPSMB10A-VR	TPSMB48A-VR	TPSMB200A-VR
TPSMB13A	TPSMB75A	TPSMB510A-A	TPSMB10CA-VR	TPSMB48CA-VR	TPSMB200CA-VR
TPSMB13CA	TPSMB75CA	TPSMB510CA-A	TPSMB11A-VR	TPSMB51A-VR	TPSMB220A-VR
TPSMB15A	TPSMB82A	TPSMB520A-A	TPSMB11CA-VR	TPSMB51CA-VR	TPSMB220CA-VR
TPSMB15CA	TPSMB82CA	TPSMB520CA-A	TPSMB12A-VR	TPSMB54A-VR	TPSMB250A-VR
TPSMB16A	TPSMB91A	TPSMB530A-A	TPSMB12CA-VR	TPSMB54CA-VR	TPSMB250CA-VR
TPSMB16CA	TPSMB91CA	TPSMB530CA-A	TPSMB13A-VR	TPSMB58A-VR	TPSMB300A-VR
TPSMB18A	TPSMB100A	TPSMB540A-A	TPSMB13CA-VR	TPSMB58CA-VR	TPSMB300CA-VR
TPSMB18CA	TPSMB100CA	TPSMB540CA-A	TPSMB14A-VR	TPSMB60A-VR	TPSMB350A-VR
TPSMB20A	TPSMB110A	TPSMB550A-A	TPSMB14CA-VR	TPSMB60CA-VR	TPSMB350CA-VR
TPSMB20CA	TPSMB110CA	TPSMB550CA-A	TPSMB15A-VR	TPSMB64A-VR	TPSMB400A-VR
TPSMB22A	TPSMB120A	TPSMB600CA-A	TPSMB15CA-VR	TPSMB64CA-VR	TPSMB400CA-VR
TPSMB22CA	TPSMB120CA	TPSMB650CA-A	TPSMB16A-VR	TPSMB70A-VR	TPSMB440A-VR
TPSMB24A	TPSMB130A		TPSMB16CA-VR	TPSMB70CA-VR	TPSMB440CA-VR
TPSMB24CA	TPSMB130CA		TPSMB17A-VR	TPSMB75A-VR	
TPSMB27A	TPSMB150A		TPSMB17CA-VR	TPSMB75CA-VR	
TPSMB27CA	TPSMB150CA		TPSMB18A-VR	TPSMB78A-VR	
TPSMB30A	TPSMB160A		TPSMB18CA-VR	TPSMB78CA-VR	
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TPSMB43A	TPSMB210A		TPSMB26CA-VR	TPSMB110CA-VR	
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TPSMB56A	TPSMB300A-A		TPSMB33CA-VR	TPSMB150CA-VR	

TPSMC		TPSMC-VR		TPSMD		SLD8S
TPSMC12A	TPSMC82A	TPSMC11A-VR	TPSMC51A-VR	TPSMD10A	TPSMD48A	SLD8S12A
TPSMC12CA	TPSMC82CA	TPSMC11CA-VR	TPSMC51CA-VR	TPSMD11A	TPSMD48CA	SLD8S13A
TPSMC13A	TPSMC91A	TPSMC12A-VR	TPSMC54A-VR	TPSMD12A	TPSMD48CA-T7	SLD8S14A
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TPSMC15A	TPSMC100A	TPSMC13A-VR	TPSMC58A-VR	TPSMD14A	TPSMD51CA	SLD8S16A
TPSMC15CA	TPSMC200CA	TPSMC13CA-VR	TPSMC58CA-VR	TPSMD15A	TPSMD54A	SLD8S17A
TPSMC16A		TPSMC14A-VR	TPSMC60A-VR	TPSMD16A	TPSMD54CA	SLD8S18A
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TPSMC51A		TPSMC36A-VR		TPSMD24CA		
TPSMC51CA		TPSMC36CA-VR		TPSMD26CA		
TPSMC56A		TPSMC40A-VR		TPSMD28CA		
TPSMC56CA		TPSMC40CA-VR		TPSMD30CA		
TPSMC62A		TPSMC43A-VR		TPSMD33CA		
TPSMC62CA		TPSMC43CA-VR		TPSMD36CA		
TPSMC68A		TPSMC45A-VR		TPSMD40CA		
TPSMC68CA		TPSMC45CA-VR		TPSMD43CA		
TPSMC75A		TPSMC48A-VR		TPSMD45A		
TPSMC75CA		TPSMC48CA-VR		TPSMD45CA		



Expertise Applied | Answers Delivered

-001										
SMAJ5_0A-001	SMAJ45A-001T13	SMBJ10C-001	SMBJ30-001T13	SMBJ75C-001T13	SMBJ350A-001	SMCJ26CA-001	SMCJ170CA-001T13	SMDJ36CA-001T13	5_0SMDJ12A-001T13	
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SMAJ20CA-1000	SMCJ10CA-1000	SMDJ13A-1000
SMAJ24CA-1000	SMCJ11A-1000	SMDJ13CA-1000
SMAJ43A-1000	SMCJ11CA-1000	SMDJ24A-1000
SMAJ43CA-1000	SMCJ12A-1000	SMDJ24CA-1000
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SMBJ48A-1000	SMDJ7.0A-1000	5.0SMDJ60A-1000
SMBJ48CA-1000	SMDJ7.0CA-1000	5.0SMDJ60CA-1000
SMBJ150CA-1000	SMDJ7.5A-1000	



Expertise Applied | Answers Delivered

-HR			-HRA					
SMBJ5.0A-HR	SMCJ5.0A-HR	SMCJ154A-HR	SMBJ5.0A-HRA	SMBJ12CA-HRAT7	SMCJ90CA-HRA	SMCJ78CA-HRAT7	SMDJ78A-HRA	
SMBJ5.0CA-HR	SMCJ5.0CA-HR	SMCJ154CA-HR	SMBJ5.0CA-HRA	SMBJ15A-HRAT7	SMCJ100A-HRA	SMCJ85A-HRAT7	SMDJ85A-HRA	
SMBJ6.0A-HR	SMCJ6.0A-HR	SMCJ160A-HR	SMBJ6.0A-HRA	SMBJ15CA-HRAT7	SMCJ100CA-HRA	SMCJ85CA-HRAT7	SMDJ90A-HRA	
SMBJ6.0CA-HR	SMCJ6.0CA-HR	SMCJ160CA-HR	SMBJ6.0CA-HRA	SMBJ18A-HRAT7	SMCJ110A-HRA	SMCJ90A-HRAT7	SMDJ100A-HRA	
SMBJ6.5A-HR	SMCJ6.5A-HR	SMCJ170A-HR	SMBJ6.5A-HRA	SMBJ18CA-HRAT7	SMCJ110CA-HRA	SMCJ90CA-HRAT7	SMDJ110A-HRA	
SMBJ6.5CA-HR	SMCJ6.5CA-HR	SMCJ170CA-HR	SMBJ6.5CA-HRA	SMBJ30A-HRAT7	SMCJ120A-HRA	SMCJ100A-HRAT7	SMDJ120A-HRA	
SMBJ7.0A-HR	SMCJ7.0A-HR	SMDJ5.0A-HR	SMBJ7.0A-HRA	SMBJ30CA-HRAT7	SMCJ120CA-HRA	SMCJ100CA-HRAT7	SMDJ130A-HRA	
SMBJ7.0CA-HR	SMCJ7.0CA-HR	SMDJ5.0CA-HR	SMBJ7.0CA-HRA	SMBJ36A-HRAT7	SMCJ130A-HRA	SMCJ110A-HRAT7	SMDJ130A-HRA	
SMBJ7.5A-HR	SMCJ7.5A-HR	SMDJ6.0A-HR	SMBJ7.5A-HRA	SMBJ45A-HRAT7	SMCJ130CA-HRA	SMCJ110CA-HRAT7	SMDJ160A-HRA	
SMBJ7.5CA-HR	SMCJ7.5CA-HR	SMDJ6.0CA-HR	SMBJ7.5CA-HRA	SMBJ90CA-HRAT7	SMCJ150A-HRA	SMCJ120A-HRAT7	SMDJ170A-HRA	
SMBJ8.0A-HR	SMCJ8.0A-HR	SMDJ6.5A-HR	SMBJ8.0A-HRA	SMBJ6.0A-HRA-B	SMCJ150CA-HRA	SMCJ120CA-HRAT7	SMDJ5.0A-HRAT7	
SMBJ8.0CA-HR	SMCJ8.0CA-HR	SMDJ6.5CA-HR	SMBJ8.0CA-HRA	SMCJ5.0A-HRA	SMCJ160A-HRA	SMCJ130A-HRAT7	SMDJ5.0CA-HRAT7	
SMBJ8.5A-HR	SMCJ8.5A-HR	SMDJ7.0A-HR	SMBJ8.5A-HRA	SMCJ5.0CA-HRA	SMCJ160CA-HRA	SMCJ130CA-HRAT7	SMDJ6.0A-HRAT7	
SMBJ8.5CA-HR	SMCJ8.5CA-HR	SMDJ7.0CA-HR	SMBJ8.5CA-HRA	SMCJ6.0A-HRA	SMCJ170A-HRA	SMCJ150A-HRAT7	SMDJ6.0CA-HRAT7	
SMBJ9.0A-HR	SMCJ9.0A-HR	SMDJ7.5A-HR	SMBJ9.0A-HRA	SMCJ6.0CA-HRA	SMCJ170CA-HRA	SMCJ150CA-HRAT7	SMDJ6.5A-HRAT7	
SMBJ9.0CA-HR	SMCJ9.0CA-HR	SMDJ7.5CA-HR	SMBJ9.0CA-HRA	SMCJ6.5A-HRA	SMCJ160A-HRAT7	SMCJ160A-HRAT7	SMDJ6.5CA-HRAT7	
SMBJ10A-HR	SMCJ10A-HR	SMDJ8.0A-HR	SMBJ10A-HRA	SMCJ6.5CA-HRA	SMCJ5.0CA-HRAT7	SMCJ160CA-HRAT7	SMDJ7.0A-HRAT7	
SMBJ10CA-HR	SMCJ10CA-HR	SMDJ8.0CA-HR	SMBJ10CA-HRA	SMCJ7.0A-HRA	SMCJ6.0A-HRAT7	SMCJ170A-HRAT7	SMDJ7.0CA-HRAT7	
SMBJ11A-HR	SMCJ11A-HR	SMDJ8.5A-HR	SMBJ11A-HRA	SMCJ7.0CA-HRA	SMCJ6.0CA-HRAT7	SMCJ170CA-HRAT7	SMDJ7.5A-HRAT7	
SMBJ11CA-HR	SMCJ11CA-HR	SMDJ8.5CA-HR	SMBJ11CA-HRA	SMCJ7.5A-HRA	SMCJ6.5A-HRAT7	SMDJ5.0A-HRA	SMDJ7.5CA-HRAT7	
SMBJ12A-HR	SMCJ12A-HR	SMDJ9.0A-HR	SMBJ12A-HRA	SMCJ7.5CA-HRA	SMCJ6.5CA-HRAT7	SMDJ5.0CA-HRA	SMDJ8.0A-HRAT7	
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SMBJ13A-HR	SMCJ13A-HR	SMDJ10A-HR	SMBJ13A-HRA	SMCJ8.0CA-HRA	SMCJ7.0CA-HRAT7	SMDJ6.0CA-HRA	SMDJ8.5A-HRAT7	
SMBJ13CA-HR	SMCJ13CA-HR	SMDJ10CA-HR	SMBJ13CA-HRA	SMCJ8.5A-HRA	SMCJ7.5A-HRAT7	SMDJ6.5A-HRA	SMDJ8.5CA-HRAT7	
SMBJ14A-HR	SMCJ14A-HR	SMDJ11A-HR	SMBJ14A-HRA	SMCJ8.5CA-HRA	SMCJ7.5CA-HRAT7	SMDJ6.5CA-HRA	SMDJ9.0A-HRAT7	
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SMBJ15A-HR	SMCJ15A-HR	SMDJ12A-HR	SMBJ15A-HRA	SMCJ9.0CA-HRA	SMCJ8.0CA-HRAT7	SMDJ7.0CA-HRA	SMDJ10A-HRAT7	
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SMBJ16A-HR	SMCJ16A-HR	SMDJ13A-HR	SMBJ16A-HRA	SMCJ10CA-HRA	SMCJ8.5CA-HRAT7	SMDJ7.5CA-HRA	SMDJ11A-HRAT7	
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SMBJ17A-HR	SMCJ17A-HR	SMDJ14A-HR	SMBJ17A-HRA	SMCJ11CA-HRA	SMCJ9.0CA-HRAT7	SMDJ8.0CA-HRA	SMDJ12A-HRAT7	
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SMBJ18A-HR	SMCJ18A-HR	SMDJ15A-HR	SMBJ18A-HRA	SMCJ12CA-HRA	SMCJ10CA-HRAT7	SMDJ8.5CA-HRA	SMDJ13A-HRAT7	
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SMBJ100CA-HR	SMCJ90CA-HR	SMDJ90A-HR	SMBJ100CA-HRA	SMCJ64A-HRA	SMCJ58A-HRAT7	SMDJ51A-HRA	SMDJ78A-HRAT7	
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	SMCJ130A-HR	SMDJ170A-HR	SMBJ6.0A-HRAT7	SMCJ78CA-HRA	SMCJ70CA-HRAT7	SMDJ60CA-HRA	SMDJ150A-HRAT7	
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	SMCJ150A-HR		SMBJ9.0A-HRAT7	SMCJ85CA-HRA	SMCJ75CA-HRAT7	SMDJ70A-HRA	SMDJ170A-HRAT7	
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Qualification Result (Rev A)