PCN Number:		201	20140218001 PC						PCN Da	CN Date: 02/24/201		
Title:	Qualify Au w	ire as	e as Alternative Wire Base Metal for Selected WSON Device(s)									
Customer Contact:		PCN /	Mana	<u>ger</u>	Phone:	e: +1(214)480-6037			Dept:	Quality Services		
Proposed 1 st Ship Da		ite:	te: 05/24/2014		Estimated Sample Availabilit			ity:	Date provided at sample request			
Change Type:												
	embly Site								sembly Materials			
Desi							_		echanical Specification est Process			
	: Site er Bump Site							afer Bump Process				
	er Fab Site		H	Wafer Fab Materials				afer Fab Process				
					mber cha							
	PCN Details											
Descrip	tion of Chan <u>c</u>	je:										
Texas Instruments is pleased to announce the qualification of Au as an additional bond wire option for devices listed in "Product affected" section below. Devices will remain in current assembly facility and there will be no other piece part changes.												
Reason for Change:												
Manufacturing flexibility.												
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):												
None.												
Changes to product identification resulting from this PCN:												
None.												
Product Affected:												
TPS51604DSGR TPS51604DSGT												
Qualification Data												
This qualification has been developed for the validation of this change. The qualification data												
valluates	validates that the proposed change meets the applicable released technical specifications. Qual Vehicle : TPS51604DSG (MSL 2-260C)											
Package Construction Details												
Assembly Site: T			TI	TI-Clark		Mold Compor			: 4208	8625		
# Pins-Designator, Family: 8		8-	8-DSG, WSON		Mount Compoun			: 4207768				
3 , ,			Ni	PdAu, Cu	Cu Bond Wire:			: 0.96	0.96 Mil Dia., Au			
Qualification: 🗌 Plan 🛛 Test Results												
Reliability Test				Conditions				S	Sample Size/Fail			
Electrical Characterization				-					Pass			
Manufacturability (Assembly)(per mfg. Site specification)Pass						ass						
Notes **- Preconditioning sequence: Level 2-260C.												

Reference Qualification Data								
Qual Vehicle 1 : T5A33403ARVC (MSL 2-260C)								
Package Construction Details								
Assembly Site:	TI-Clark	I-Clark Mold Comp		ound: 4208625				
# Pins-Designator, Family:	20-RVC, WQFN	0-RVC, WQFN Mount Compo			ound: 4207768			
Lead frame (Finish, Base):	NiPdAu, Cu	Bond Wire: 1.3 Mil Dia., Au				Au		
Qualification: 🗌 Plan 🛛 Test Results								
Delie bilite a Telet	Conditions	Conditions		Sample Size Pass/Fail				
Reliability Test	Conditions			Lot# 1 Lo		Lot# 3		
**High Temp. Storage Bake	170C (420hrs)	170C (420hrs)			77/0	77/0		
**Autoclave 121C	121C, 2 atm (90	6 Hrs)	77/0		77/0	77/0		
**Temperature Cycle	-65/150C (500	cycles)	77/	0	77/0	76/0		
Manufacturability (Assembly)	(per mfg. Site s				Pass	Pass		
Moisture Sensitivity	Level 2-260C	Level 2-260C			12/0	12/0		
Notes **- Preconditioning sequence: Level 2-260C.								
Qual Vehicle 2 : TLV70028DSE (MSL 1-260C)								
Package Construction Details								
Assembly Site:	TI-Clark	I-Clark Mold Comp						
# Pins-Designator, Family:	6-DSE, WSON	Mount Compound: 4207768						
Lead frame (Finish, Base):	NiPdAu, Cu	Au, Cu Bond Wire: 0.8 Mil Dia., Au						
Qualification: 🗌 Plan 🛛 Test Results								
Deliability Test	Conditions	Conditions		Sample Size Pass/Fail				
Reliability Test	Conditions			1	Lot# 2	Lot# 3		
**High Temp. Storage Bake	170C (420hrs)	170C (420hrs)			77/0	77/0		
**Autoclave 121C	121C, 2 atm (90	121C, 2 atm (96 Hrs)			77/0	77/0		
**Temperature Cycle	-65/150C (500	-65/150C (500 cycles)			77/0	76/0		
Salt Atmosphere	-	-		0	22/0	22/0		
Surface Mount Solderability	8 Hours Steam	8 Hours Steam Age-Pb Free			22/0	22/0		
Manufacturability (Assembly)	(per mfg. Site s	(per mfg. Site specification)			Pass	Pass		
Moisture Sensitivity	Level 1-260C	12/0 12/0		12/0				
Notes **- Preconditioning s	equence: Level 1-2	60C.						

Reference Qualification Data

Qual Vehicle 3 : TPS61161DRV (MSL 2-260C)							
Package Construction Details							
Assembly Site:	TI-Clark	Mold Compound:		4208625			
# Pins-Designator, Family:	6-DRV, WSON Mount Compo		ound:	4207768			
Lead frame (Finish, Base):	NiPdAu, Cu	Bond	Wire:	1.31 Mil Dia.,		Au	
Qualification: 🗌 Plan 🛛 Test Results							
Deliability Teet	Conditions		S	ample Size Pass/Fail			
Reliability Test			Lot# 1		Lot# 2	Lot# 3	
**High Temp. Storage Bake	170C (420hrs)	77/0		77/0	77/0		
**Autoclave 121C	121C, 2 atm (96 Hrs)		77/0		77/0	77/0	
**Temperature Cycle	-65/150C (500 cycles)		77/0		77/0	76/0	
Salt Atmosphere	-		22/0		22/0	22/0	
Surface Mount Solderability	8 Hours Steam Age-Pb Free		22/0		22/0	22/0	
Manufacturability (Assembly)	(per mfg. Site specification)		Pass		Pass	Pass	
Moisture Sensitivity	Level 2-260C	12/	0	12/0	12/0		
Notes **- Preconditioning sequence: Level 2-260C.							

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com