




PCN Number:	20190930000.1		PCN Date:	Oct. 1 2019															
Title:	Qualification of SCSAT as a new Assembly site for the ADC16DV160CILQ device family																		
Customer Contact:	PCN Manager	Dept:	Quality Services																
Proposed 1st Ship Date:	Jan. 1 2020	Estimated Sample Availability:	Date provided at sample request																
Change Type:																			
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site														
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material														
<input checked="" type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process														
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Wafer Fab Site														
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials														
		<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process														
PCN Details																			
Description of Change:																			
Texas Instruments is pleased to announce the qualification of SCSAT as a new Assembly site for the list of devices shown below. Previous assembly site and Material differences are as follows:																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;"></th> <th style="width: 33%; text-align: center;">Anam Korea</th> <th style="width: 33%; text-align: center;">SCSAT</th> </tr> </thead> <tbody> <tr> <td>Mount Compound</td> <td style="text-align: center;">SID#101375619</td> <td style="text-align: center;">SID#R008-0141X</td> </tr> <tr> <td>Mold Compound</td> <td style="text-align: center;">SID#101317112</td> <td style="text-align: center;">SID#R003-0303X</td> </tr> <tr> <td>Lead finish</td> <td style="text-align: center;">Matte Sn</td> <td style="text-align: center;">NiPdAuAg</td> </tr> <tr> <td>ECAT</td> <td style="text-align: center;">G3</td> <td style="text-align: center;">G4</td> </tr> </tbody> </table>						Anam Korea	SCSAT	Mount Compound	SID#101375619	SID#R008-0141X	Mold Compound	SID#101317112	SID#R003-0303X	Lead finish	Matte Sn	NiPdAuAg	ECAT	G3	G4
	Anam Korea	SCSAT																	
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ECAT	G3	G4																	
Reason for Change:																			
Continuity of Supply																			
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):																			
None																			
Anticipated impact on Material Declaration																			
<input type="checkbox"/>	No Impact to the Material Declaration	<input checked="" type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained at the site link below http://www.ti.com/quality/docs/materialcontentsearch.tsp																
Changes to product identification resulting from this PCN:																			
Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (23L)	Assembly City																
Anam Korea	ANM	KOR	Bucheon-si, Gyeonggi-do																
SCSAT	STS	SGP	Singapore																
Sample product shipping label (not actual product label)																			


TEXAS INSTRUMENTS
 MADE IN: Malaysia
 2DC: 20:

 G4



(1P) SN74LS07NSR
 (Q) 2000 (D) 0336
 (31T) LOT: 3959047MLA
 (4W) TKY (1T) 7523483SI2
 (P)
 (2P) REV: (V) 0033317
 (20L) CSO: SHE (21L) CCO: USA
 (22L) ASO: MLA (23L) ACO: MYS

MSL 2 /260C/1 YEAR SEAL DT
 MSL 1 /235C/UNLIM 03/29/04
 OPT:
 ITEM: 39
LBL: 5A (L)T0:1750

Product Affected:

ADC16DV160CILQ/NOPB	ADC16DV160CILQE/NOPB	ADC16DV160CILQX/NOPB
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TI Information
Selective Disclosure

Qualification Results
 Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: ADC16DV160CILQX/NO	QBS Package Reference: LMK05805RUR- PG1.0/2.0/2.1	QBS Package Reference: TPS92682QRHM01 PG1.0/ PG2.0
AC	Autoclave 121C	96 Hours	1/77/0	3/231/0	3/231/0
CDM	ESD - CDM	1000 V	1/3/0	-	-
ED	Electrical Characterization.	Per Datasheet Parameters	1/30/0	-	-
HAST	Biased HAST, 110C/85%RH	264 Hours	-	2/160/0	-
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0
HTOL	Life Test, 150C	300	-	-	1/77/0
HTOL	Life Test, 70C	1000 Hours	-	3/231/0	-
HTSL	High Temp Storage Bake 150C	1000 Hours	1/77/0	3/135/0	-
HTSL	High Temp Storage Bake 175C	500 Hours	-	-	3/135/0
PD	Physical Dimensions	(per mechanical drawing)	1/5/0	-	-
PB	Surface Mount Solderability	Pb Free	-	3/66/0	-
SD	Surface Mount Solderability	Pb	-	3/66/0	-
TC	Temperature Cycle, - 65/150C	500 Cycles	1/77/0	3/231/0	3/231/0
WBP	Bond Pull	Wires	1/76/0	-	-
WBS	Ball Bond Shear	Wires	1/76/0	-	-

- QBS: Qual By Similarity
 - Qual Device ADC16DV160CILQX/NO is qualified at LEVEL4-260C
 - Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
 - The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
 - The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
 - The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles
- Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:
Qualified Pb-Free(SMT) and Green

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