

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company	 STMicroelectronics International N.V
1.2 PCN No.	ADG/23/14097
1.3 Title of PCN	VN9D5D20FNTR, VN9D30Q100FTR, VN9D5D20FTR (XV97, XV99, XV67): Activation of Taiko Ring Removal in Muar beside current Shenzhen
1.4 Product Category	VN9D5D20FNTR, VN9D30Q100FTR, VN9D5D20FTR
1.5 Issue date	2023-05-29

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	ROBERTSON HEATHER
2.1.2 Phone	+1 8475853058
2.1.3 Email	heather.robertson@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Carmelo PISTRITTO
2.2.2 Marketing Manager	Rosario RUGGERI
2.2.3 Quality Manager	Daniela FAZIO

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Testing (SOP 2617)	ST Muar

4. Description of change

	Old	New
4.1 Description	Taiko Ring Removal in ST Shenzhen	Taiko Ring Removal in ST Shenzhen and Muar
4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?	No Impact	

5. Reason / motivation for change

5.1 Motivation	Capacity Increase
5.2 Customer Benefit	CAPACITY INCREASE

6. Marking of parts / traceability of change

6.1 Description	Internal Traceability - Date Code
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7. Timing / schedule

7.1 Date of qualification results	2023-04-27
7.2 Intended start of delivery	2023-07-31
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation

8.1 Description	14097 Validation.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2023-05-29

9. Attachments (additional documentations)

14097 Public product.pdf
14097 Validation.pdf
14097 Details.pdf

10. Affected parts		
10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	VN9D30Q100FTR	
	VN9D5D20FNTR	

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PRODUCT/PROCESS CHANGE NOTIFICATION

TITLE	VN9D5D20FNTR, VN9D30Q100FTR, VN9D5D20FTR (XV97, LV99, XV67): Activation of Taiko Ring Removal in Muar beside current Shenzhen
IMPACTED PRODUCTS	<ul style="list-style-type: none"> ✚ VN9D5D20FNTR ✚ VN9D30Q100FTR ✚ VN9D5D20FTR
MANUFACT. STEP	Assembly
INVOLVED PLANT	ST Muar - Malaysia
CHANGE REASON	Capacity Improvement
CHANGE DESCRIPTION	Activation of Taiko Ring Removal in ST Muar beside current ST Shenzhen. No change in Assembly and Final Testing location (ST Calamba) See below for details
TRACEABILITY	Internal Traceability - Date Code
REPORT	Qualification Report included in this Notification. 14097 Validation.pdf
IMPLEMENT.	Upon Customer Agreement



Second source activation of Taiko Ring Removal process in ST-Muar

Agenda

3 Change Description

6 Selected Test Vehicles

4 ZVEI Guidelines

7 Impacted Products List

5 TRR machine

8 Conclusions

Change description

- Aim of this document is to describe the qualification activity to activate Muar as second source location for Taiko Ring Removal process.
- The Taiko Ring Removal process is currently performed in Shenzhen plant.
- The TV identified have been : XV9703 and XV9903 silicon lines
- Qualification activity has been performed to qualify the TRR process in STMuar using the same machine as the one used in SHZ
- The Assy & Testing is kept in the same plant of STCalamba.
- Reliability report it's attached to show the positive results. The new TRR process in Muar is ensuring the same quality and electrical characteristics as the current products.
- All reliability tests have been completed with positive results.

ZVEI Guidelines

- According to ZVEI recommendations, the notification is required.

ID	Type of change	Assessment of impact on Supply Chain regarding following aspects		Remaining risks within Supply Chain?	Understanding of semiconductors experts	Examples to explain	A: Application level B: Boardlevel C: Component level *: Not relevant for qualification matrix
		No	Yes				
x SEM-PA-18	Move all or parts of production to a different assembly site.	P	P	Assembly transfer or relocation. Includes transfer as well as additional site.	e.g. dual source / fab strategy		C

Taiko Ring Removal machine



Disco DFD6240RR

The TRR machine used in Muar plant
is the same used in SHZ.

Selected Test Vehicles

Commercial products

- VN9D5D20FNTR
- VN9D30Q100FTR

ST silicon line

- XV9703
- XV9903

Impacted product list

Commercial products

- VN9D5D20FNTR
- VN9D30Q100FTR
- VN9D5D20FTR

ST silicon line

- XV9703
- XV9903
- XV6703

Conclusions

- Qualification activity has been performed to qualify the TRR process in STMuar using the same Assy & Testing plant of ST Calamba.
- All reliability tests (AEC-Q100 requirement) have been completed with positive results.
- Neither functional nor parametric rejects were detected at final electrical test.
- This report shows the positive results achieved. The new TRR process in Muar is ensuring the same quality and electrical characteristics as the current products.

Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

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PCN Reference : ADG/23/14097

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

VN9D30Q100FTR	VN9D5D20FNTR	VN9D5D20FTR
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