Sample Approval Record

Log. No: 12SAR-HVA- 6275	Rev.: 1	Sheet: 1 of 2
Computime Description: ANTENNA ROD WIFI TRN8241 ROHS		Computime P/N: 2434TRN824110SK2
Manufacturer: STEP (SHENZHEN) METAL SPRING CO LTD		
Mfr. P/N: 2434TRN824110SK2		
Design Group: HVA-HVA-ODM		
First Used on Model: TRN8241	Component Weight: NA	UM: PC

Environmental Requirement /Comment and Remark:

☐ Lead-Free ☐ EUPPW (Directive 94/62/EC)

☒ RoHS (Directive 2002/95/EC) ☐ Battery Directive (Directive 2006/66/EC)

☐ **SONY SS-00259**: "This parts should not contain any substance which are specified in SS-00259" should be described in the documents that regulate the procedure, standards, guidelines and requirements of the design of raw materials parts, subsidiary materials to be added to products, packaging materials and packaging support materials.

☐ **Samsung**: Refer to SEC Registration No. 0QA-2049

☐ Green Requirement (specify if check) ☐ Others (specify if check)

1,首次来料由IQA通知需要工程师确认。

2, ROHS资料参照10MVD00272,11RPA00031,13LRR00308.

☒ ***Approval Status:*** *(Please check the selected box)*

☐ MR - Material Release Qty: / Total MR Qty:

☐ CA - Conditional Approval Qty: / Total CA Qty:

☒ AP - Approved

☐ FL - Fail

☒ **Supporting Documents of Lead-Free/RoHS/Green parts:** *(Please circle the selected option number and check the available supporting documents)*	Option 1	2	③	4	5
Vendor Declaration Use of RoHS Material or Manufacturer Declaration Letter	☐		☒	☐	☐
Recognized Laboratory Lead-Free/RoHS/Green Report (parts)	☐				
Lead-Free/RoHS/Green Manufacturer List		☐			
Lead-Free/RoHS/Green mark on Published specification for particular part/board or Public Material Content Report		☐			
Recognized Laboratory Raw Material Report or Raw Material Mfr. in "Lead-Free/RoHS/Green Manufacturer List"			☒		
Computime RoHS Process Assessment			☒		
COMPUTIME Supplier's Qualification Audit Report				☐	☐
RoHS Analysis Report				☐	☐
Customer Agreement				☐	

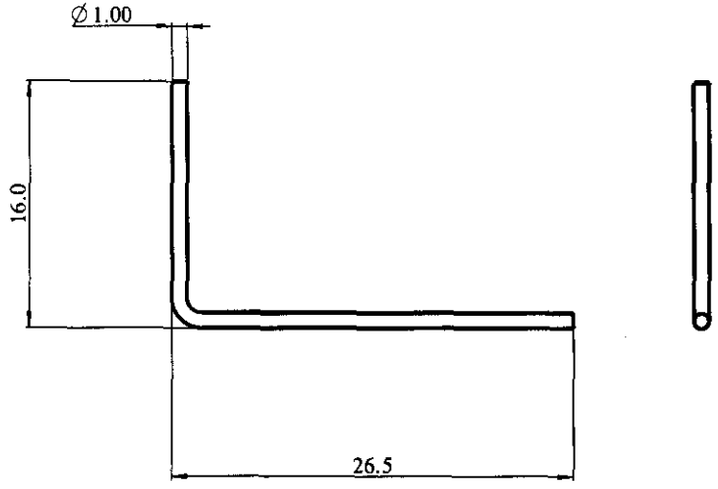
☒ Prepared by:	☒ Reviewed by:	☒ Approved by:	☐ Signed by VP/GM:	☐ Signed by COO:
Anders Liu	Anders Liu			
Date: Dec. 3, 13	Date: Dec. 3, 13	Date: 2013-12-3	Date:	Date:
Name: Anders Liu	Name: Anders Liu	Name: Arion Wong	Name:	Name:

RECEIVED 03 DEC 2013

Form No.: F-ENG-1001N

SZDCC-BJ

03 DEC 2013



NOTE:
1. Material: rigid copper wire
2. Finish: Ni_plated.
3. The antenna should be not easy to be bend.
4. Good solderability to PCB end.

REV	DESCRIPTIONS	DWN	DATE
A	FIRST RELEASE	HITER	May-27-13

MAT'L: copper	FINISH: NI_PLATED		
COLOUR: BY MATERIAL	SCALE: 2:1	UNIT: MM	
GENERAL TOLERANCE	DWN BY: HITER	DATE: May-27-13	
DECIMALS / TOLERANCE			
X.X / ±0.2	CHKD BY	DATE	
X.XX / ±0.10			
X.XXX / ±0.05	APPD BY	DATE	
ANGULAR / ±1°			

computime ltd

TITLE: ANTENNA

PART NO.: TBD

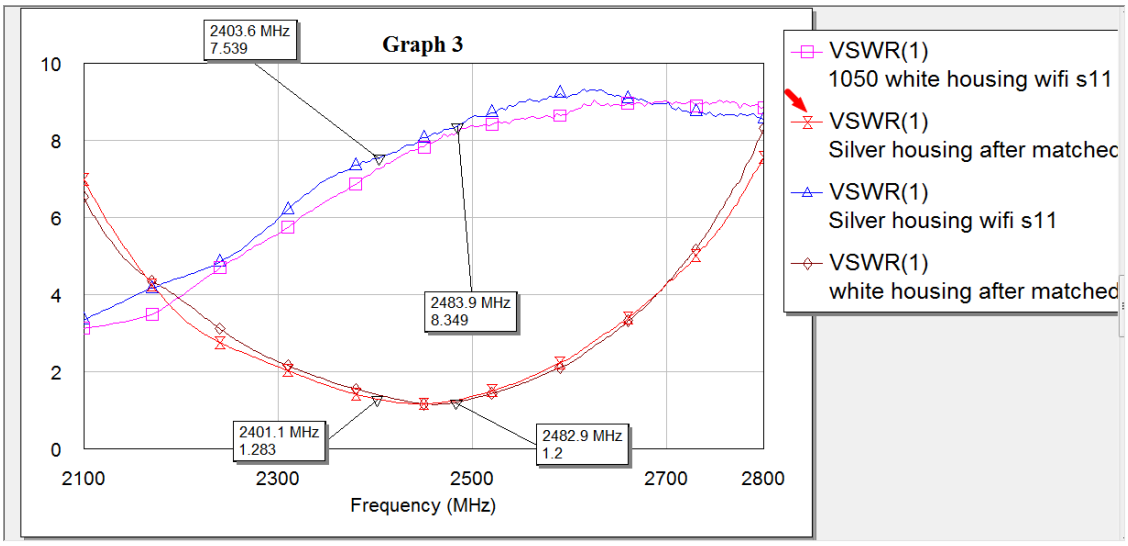
REV: A2

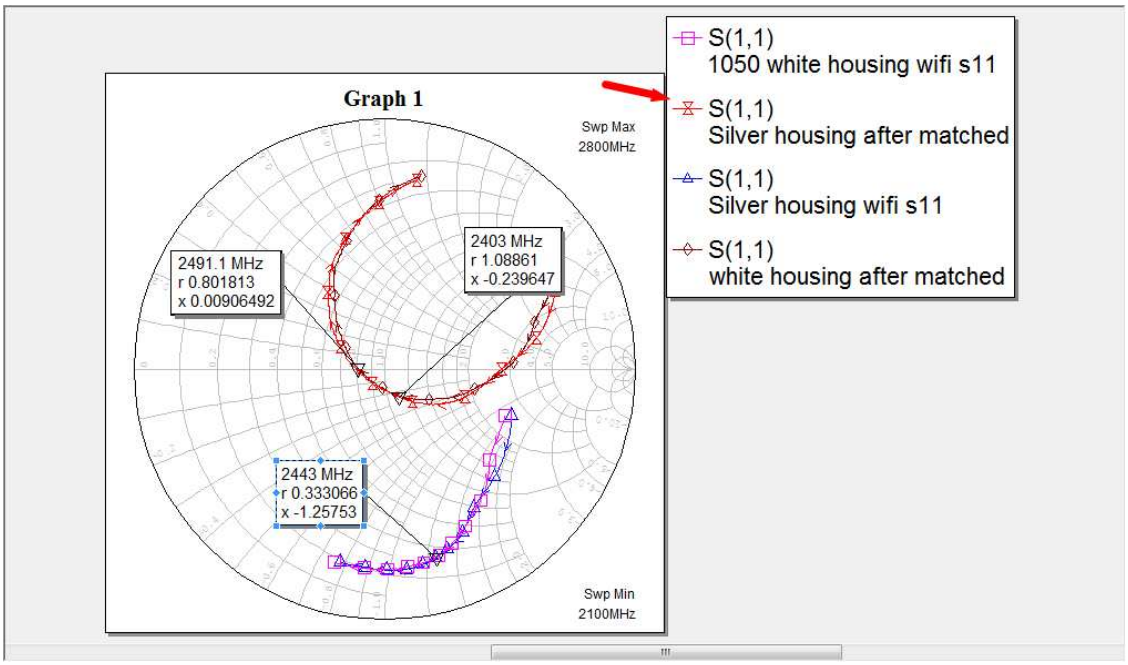
DON'T SCALE THE DRAWING

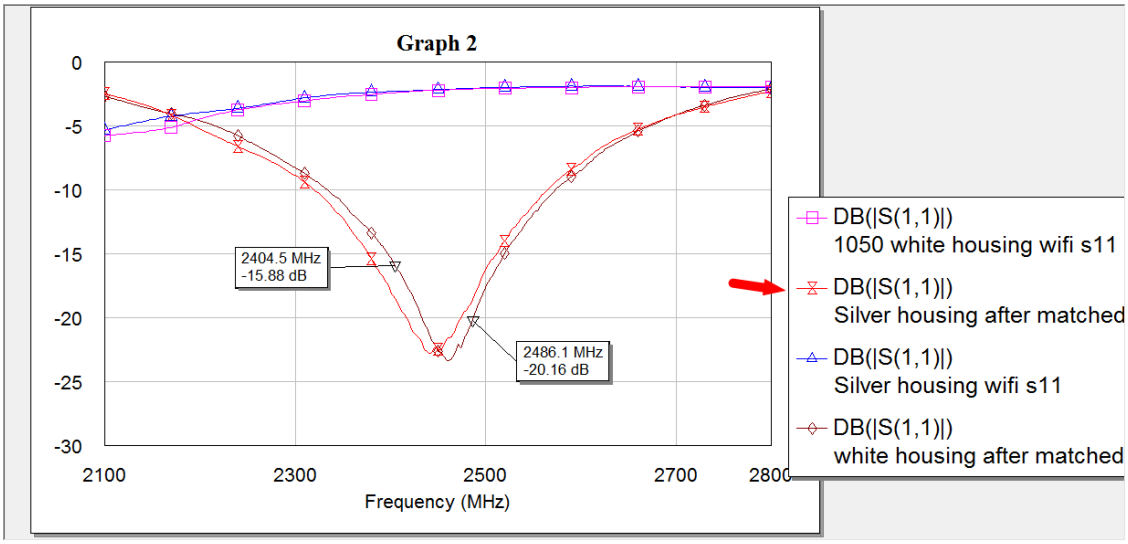
DRAWING SHEET 1 OF 1

Passive performance test parameters

Frequency(MHz)	2401.1		2482.9
VSWR (Silver housing)	1.283		1.2

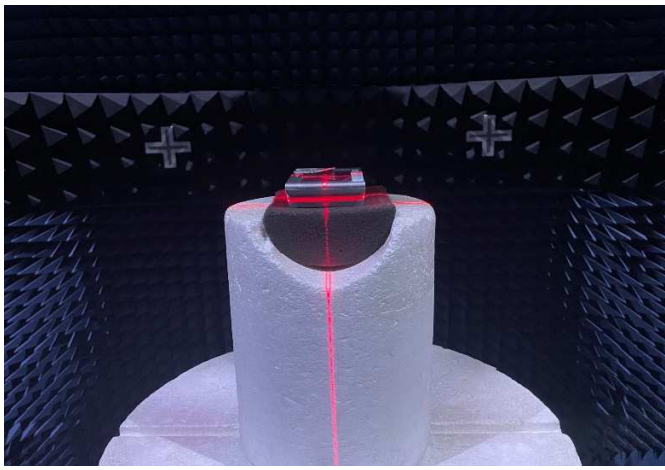




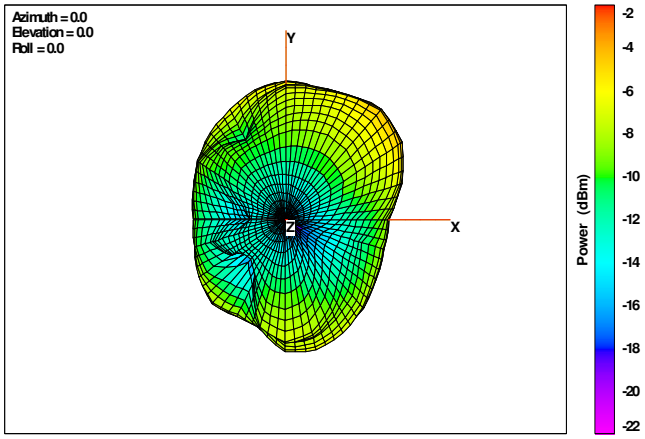


2D、3D Performance figure

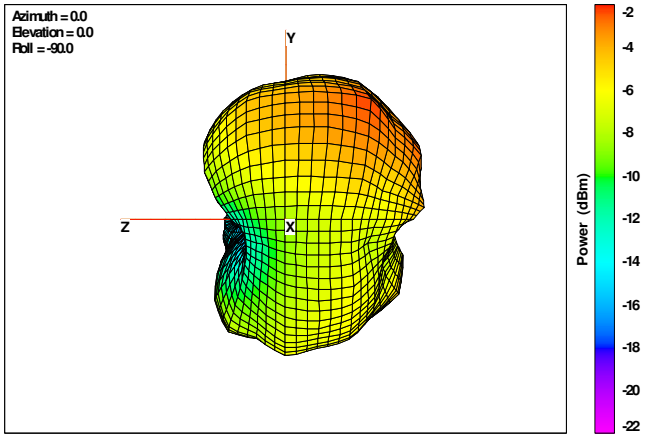
Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-7.45	17.99	-2.02
2405	-7.35	18.40	-1.85
2410	-7.41	18.14	-1.92
2415	-7.48	17.87	-1.95
2420	-7.61	17.34	-2.13
2425	-7.58	17.46	-2.03
2430	-7.61	17.33	-2.01
2435	-7.59	17.43	-1.94
2440	-7.56	17.53	-1.87
2445	-7.60	17.37	-1.88
2450	-7.62	17.30	-1.96
2455	-7.66	17.13	-1.96
2460	-7.67	17.08	-2.06
2465	-7.66	17.15	-1.95
2470	-7.77	16.73	-2.06
2475	-7.77	16.73	-2.05
2480	-7.94	16.07	-2.19
2485	-7.88	16.29	-2.23
2490	-7.83	16.47	-2.04
2495	-7.57	17.51	-2.01
2500	-7.44	18.02	-1.71



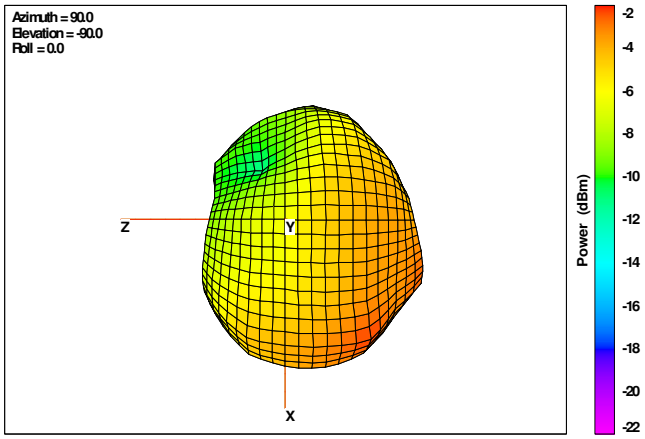
Total

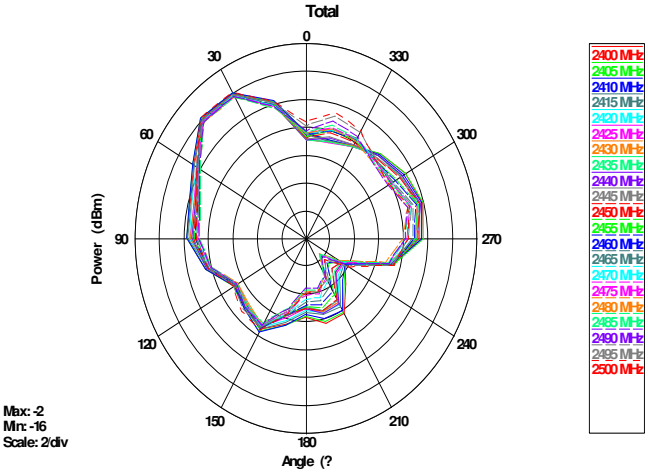


Total



Total




Total
0
30
330
60
300
90
270
120
240
150
210
180
Power (dBm)
Angle (?
2400 MHz
2405 MHz
2410 MHz
2415 MHz
2420 MHz
2425 MHz
2430 MHz
2435 MHz
2440 MHz
2445 MHz
2450 MHz
2455 MHz
2460 MHz
2465 MHz
2470 MHz
2475 MHz
2480 MHz
2485 MHz
2490 MHz
2495 MHz
2500 MHz
Max: -2
Min: -16
Scale: 2/div

Electrical performance test report

Electrical parameters		
Frequency range		2400MHz-2500MHz
input impedance		50Ω
VSWR		<2.0 control sample test pater
Gain	Max	-1.71dBi
Polarization mode		Vertical polarization
Radiation direction		omnidirectional
connection method		Manual solder
The mechanical parameters		
Material		Rigid copper wire
Finish		Ni_plated
Salt spray test		24H
Environmental parameters		
Working temperature		-40~85℃