

# BS EN 62479: 2010

## HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS

### REPORT

FOR

**Product Name:** TomTom Cardio GPS Watch

**Brand Name:** TomTom

**Model No.:** 8RA0

**Model Differences:** N/A

**Report No.:** ER/2014/10097

**Issue Date:** Feb. 27, 2014

**Prepared for:** TomTom International BV  
Rembrandtplein 35 1017 CT Amsterdam The Netherlands

**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

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## CERTIFICATION OF COMPLIANCE

**Applicant:** TomTom International BV  
Rembrandtplein 35 1017 CT Amsterdam The Netherlands

**Product Name:** TomTom Cardio GPS Watch

**Brand Name:** TomTom

**Model No.:** 8RA0

**Model Difference:** N/A

**Report No.:** ER/2014/10097

**Date of test:** Feb. 21, 2014 ~ Feb. 27, 2014

**Date of EUT Received:** Feb. 21, 2014

## APPLICABLE STANDARDS

STANDARD	TEST RESULT
BS EN 62479: 2010	Complied

The above equipment was tested by SGS Taiwan Ltd. for compliance with the requirements set forth in the British Standard EN 62479: 2010 derived from IEC6 2479: 2010. The results in this report apply to the product system that was used only.

Test By:

Marcus Tseng

Date:

Feb. 27, 2014

Marcus Tseng / Engineer

Prepared By:

Julia Chang

Date:

Feb. 27, 2014

Julia Chang / Clerk

Approved By:

Jim Chang

Date:

Feb. 27, 2014

Jim Chang / Supervisor

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## Version

Version No.	Date	Description
00	Feb. 27, 2014	Initial creation of document

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## 1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### General:

Product Name:	TomTom Cardio GPS Watch
Brand Name:	TomTom
Model No.:	8RA0
Model difference:	N/A
Hardware Version:	1.0
Software Version:	1.5
USB Dock: (1.5mm & 1.0mm)	Model No.: 4UJ0, Brand Name: TomTom
Power Supply:	3.7Vdc (0.7Wh) Rechargeable Lithium Ion battery

### Bluetooth 4.0(BLE mode):

Bluetooth Version:	V4.0
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	-5.14dBm EIRP
Frequency Range:	2.402GHz – 2.480GHz
Antenna Designation	Mono-pole Antenna, -5.82dBi

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## 2. DESCRIPTION OF TEST MODES

Annex A approach:

Pmax:

The EUT has been tested under Operating condition. And used to control the EUT for staying in continuous transmitting mode is programmed. Channel lowest, mid and highest of E2 plane were chosen for testing.

Annex B approach:

Pmax::

The EUT has been tested under Operating condition. And used to control the EUT for staying in continuous transmitting mode is programmed. Channel lowest, mid and highest of E2 plane were chosen for testing.

$|S_{11}| \leq -7\text{dB}$ :

The EUT has been tested under Operating condition. And used to control the EUT for staying in continuous transmitting mode is programmed. Channel lowest, mid and highest will chosen to measured in obtaining free-space antenna bandwidth.

## 3. GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT according to the specifications, it must comply with the requirements of the following standards:

EN 62479:2010 – Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10MHz- 300GHz ).

If such equipment cannot be shown to comply with the applicable EMF exposure requirements using the methods included in this standard for EMF assessment, then other standards, including IEC 62311 or other (EMF) product standards, may be used and selected to demonstrate the product's compliance with rf exposure pursuant for R&TTE.

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#### 4. GENERAL CONSIDERATIONS

The electronic and electro technical apparatus shall comply with the basic restriction as specified in Council Recommendation 1999/519/EC based on the ICNIRP guidelines. For transmitters intended for use with more than one antenna configuration option, the combination of transmitter and antenna(s) which generates the highest available antenna power and/or average total radiated power shall be assessed.

Four routes, as illustrated in Figure 1 and described as follows, can be used to demonstrate compliance with this standard:

- (A) Typical usage, installation and the physical characteristics of equipment make it inherently compliant with the applicable EMF exposure levels such as incandescent light bulbs and audio/visual (A/V) equipment, information technology equipment (ITE) and multimedia equipment (MME) that does not contain radio transmitters.
- (B) The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in 4.2 of BS EN62479.
- (C) The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in 4.2.
- (D) Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in 4.2.

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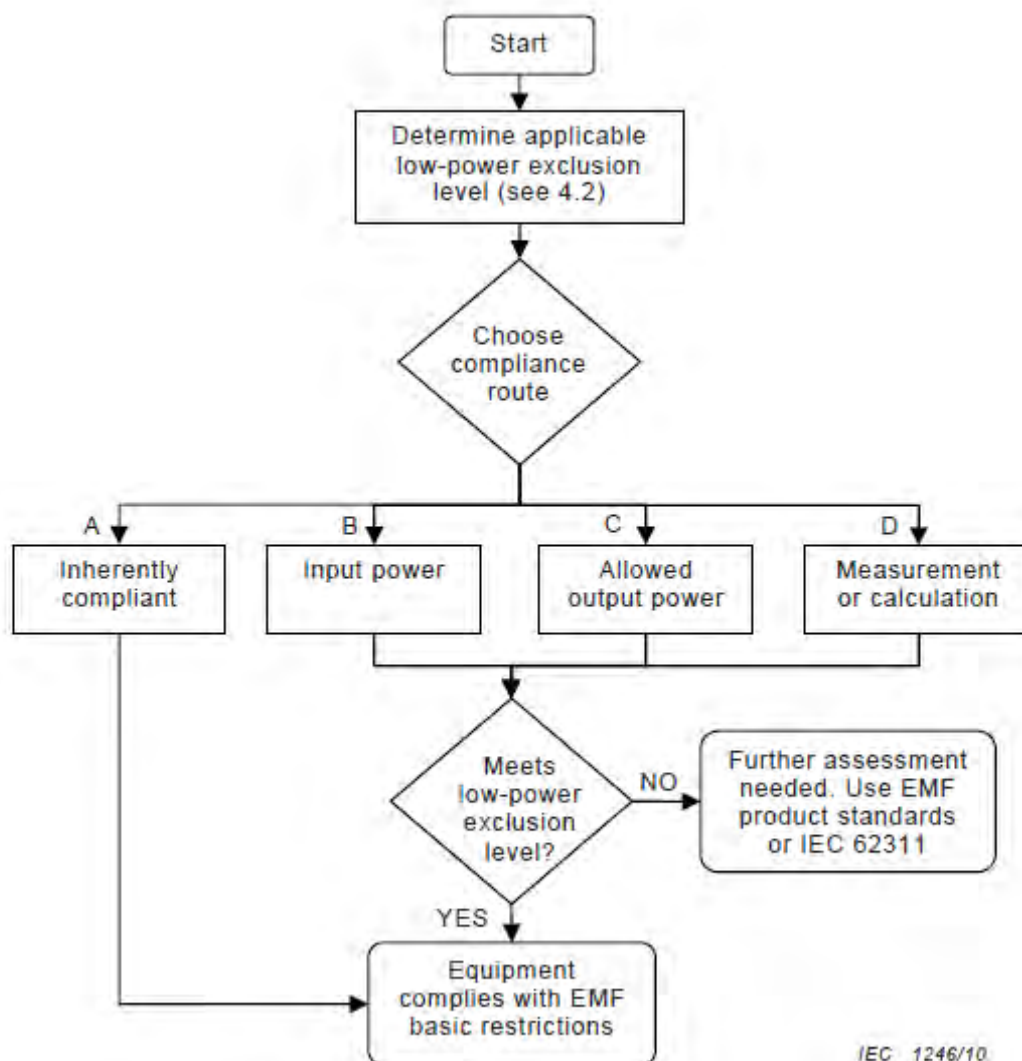
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IEC 1246/10

Figure 1 – Routes to show compliance with low-power exclusion level

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## 5. TEST FACILITY

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A 11m\*6m\*6m fully anechoic chamber was used for the radiated spurious emissions test.

## 6. MEASUREMENT EQUIPMENT USED:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/15/2013	03/14/2014
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2013	05/05/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	51728	02/28/2013	02/27/2014
DC Power Supply	Agilent	E3640A	KR93300208	07/24/2013	07/23/2014
Power Sensor	Agilent	U2021X	MY52280003	06/08/2013	06/07/2014
Power Sensor	Agilent	U2021X	MY52320006	06/08/2013	06/07/2014

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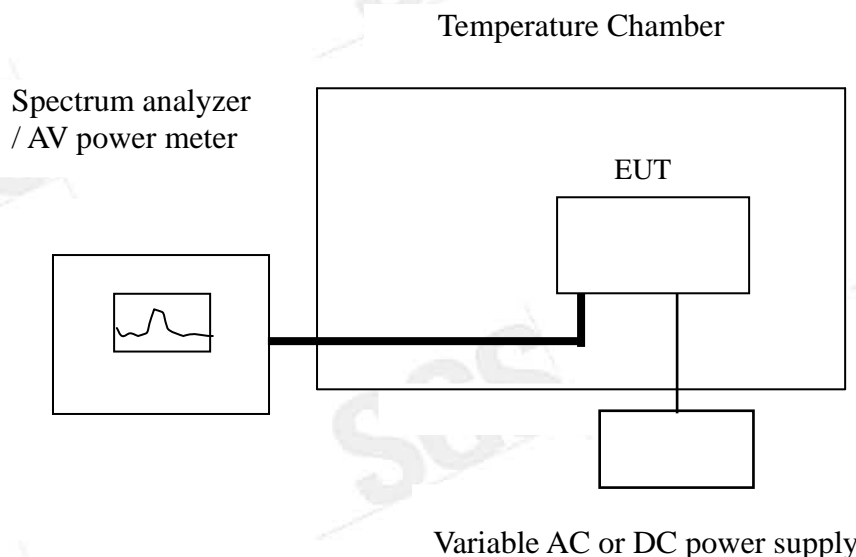
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## 6.1 Test Setup:

### EIRP Measurement:



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## 7. RF EXPOSURE EVALUATION

According to section 4.2 of BS EN 62479:2010 and the characteristic of the EUT, compliance route D is suitable for evaluation.

Annex A approach:

Based on the Table A.1 of BS EN62479, ICNIRP guidelines provide maximum radiated output power limits of 20 mW over the 10 MHz to 300 GHz frequency range for general public exposure. If the average power emitted by apparatus operating in the frequency range 10 MHz - 300 GHz is less than or equal to low-power exclusion level, P<sub>max</sub>, as described by the ICNRP guidelines, IEEE Std C95.1-1999, and IEEE Std C95.1-2005, then the apparatus is deemed to comply with the basic restrictions without testing.

Guideline / Standard	SAR limit, $SAR_{max}$ W/kg	Averaging mass, m g	P <sub>max</sub> mW	Exposure tier*	Region of body*
ICNIRP [1]	2	10	20	General public	Head and trunk
	4	10	40	General public	Limbs
	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
IEEE Std C95.1-1999 [2]	1.6	1	1.6	Uncontrolled environment	Head, trunk, arms, legs
	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
IEEE Std C95.1-2005 [3]	2	10	20	Action level	Body except extremities and pinnae
	4	10	40	Action level	Extremities and pinnae
	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae

\* Consult the appropriate standard for more information and definitions of terms.

P<sub>max</sub> = S X a, where S is the SAR limit as described in the table of above, and a is the averaging mass as described in the table of above.

$$P_{max} = 2 \text{ W/kg} * (10/1000) \text{ kg} = 0.02 \text{ W} = 20\text{mW}$$

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Annex B approach:

Pmax` serves as alternatively low-power exclusion level.

Based upon a systematic study of canonical dipole antenna of different lengths and at different distances from the flat phantom, Pmax' is developed for determining more lenient and higher value of the low-power exclusion level, where emission level as generate by wireless application, excluding wireless devices of having antennas whose directivity is significantly greater than that of a half-wavelength dipole antenna.

$P_{max}' = \exp (A s + B s^2 + C \ln(BW) + D)$ , where  $s$  represents the nearest separation distance between the wireless device and user's body,  $BW$  is the free-space antenna bandwidth, and  $A$ ,  $B$ ,  $C$  and  $D$  are third-order polynomials of frequency.  $BW$  is  $100\% \Delta f / f_0$ , where  $\Delta f = f_{max} - f_{min}$ , and  $f_0 = (f_{min} + f_{max}) / 2$ , and where  $f_{min}$  and  $f_{max}$  are the lowest, and highest frequencies over the range at which  $|S_{11}| \leq -7\text{dB}$ . If device is sought to conform to ICNRP with the limit of  $SAR_{max} = 2\text{W/kg}$  averaging over  $m = 10\text{g}$ , then  $A$ ,  $B$ ,  $C$ , and  $D$  are taken as follows:

$$A = (-0.4588 f^3 + 4,407 f^2 - 6,112 f + 2,497) / 100$$

$$B = (0.1160 f^3 - 1,402 f^2 + 3,504 f - 0,4367) / 1000$$

$$C = (-0.1333 f^3 + 11,89 f^2 - 110,8 f + 301,4) / 1000$$

$$D = -0.03540 f^3 + 0,5023 f^2 - 2,297 f + 6,104$$

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**Peak and Average Measurement Result:****Test Mode: Bluetooth 4.0****Modulation type: GFSK****Test Date: 02/21/2014**

Antenna assembly gain:

-5.82 dBi

EIRP = A (Average Power) + G

TEST CONDITIONS			TRANSMITTER POWER (dBm)		
			Lowest Frequency (CH Low)	Middle Frequency (CH Mid)	Highest Frequency (CH High)
Temp (-20)°C	Vnom	3.7 V	EIRP = -7.18 dBm Av = -1.36 dBm	EIRP = -7.27 dBm Av = -1.45 dBm	EIRP = -6.76 dBm Av = -0.94 dBm
Temp (25)°C	Vnom	3.7 V	EIRP = -7.02 dBm Av = -1.20 dBm	EIRP = -6.81 dBm Av = -0.99 dBm	EIRP = -7.04 dBm Av = -1.22 dBm
Temp (60)°C	Vnom	3.7 V	EIRP = <b>-5.14</b> dBm Av = 0.68 dBm	EIRP = -7.01 dBm Av = -1.19 dBm	EIRP = -7.33 dBm Av = -1.51 dBm
Limit			20dBm		

**Note: 1. E.I.R.P.** shall be calculated from the above measured power output A, and the applicable antenna assembly gain "G" in dBi.

**2. Av** is the Average value at antenna port.

*\*offset: 2.1dBm being set in compensation for the cable loss*

**Evaluation Results by Annex A approach:**

The max. peak and average measurement value are 0.68dBm (1.17mW) and EIRP is -5.14dBm (0.31mW). Therefore this given device conforms to EN62479 that radiated power is less than 20mW as defined in Annex A.

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## APPENDIX 1

### PHOTOGRAPHS OF EUT

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*All View of EUT*



*Front View of EUT*



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*Back View of EUT*



*Side View of EUT – 1*



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*Side View of EUT – 2*



*Side View of EUT – 3*



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*Side View of EUT – 4*



*USB Dock – 1(1.0mm)*



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*USB Dock – 2(1.5mm)*



*Battery*



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*Open View of EUT – 1*



*Open View of EUT – 2*



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*Open View of EUT – 3*



*Open View of EUT – 4*



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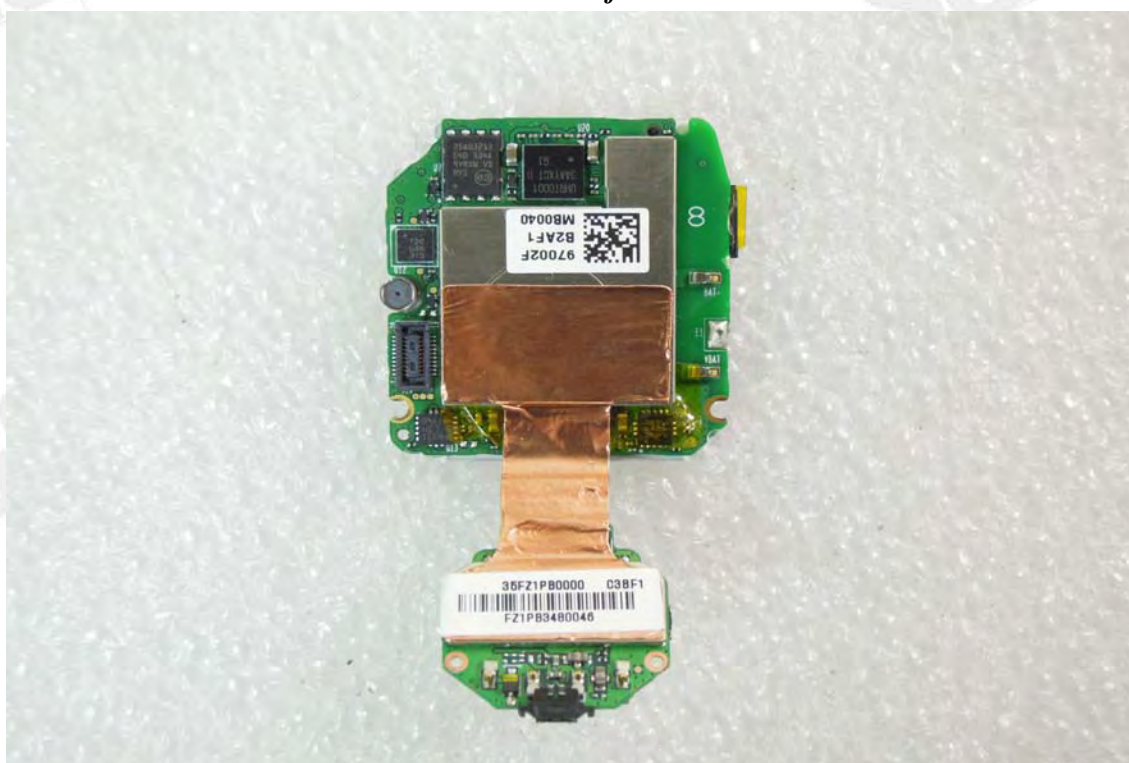
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## Internal View of EUT – 1



## Internal View of EUT – 2



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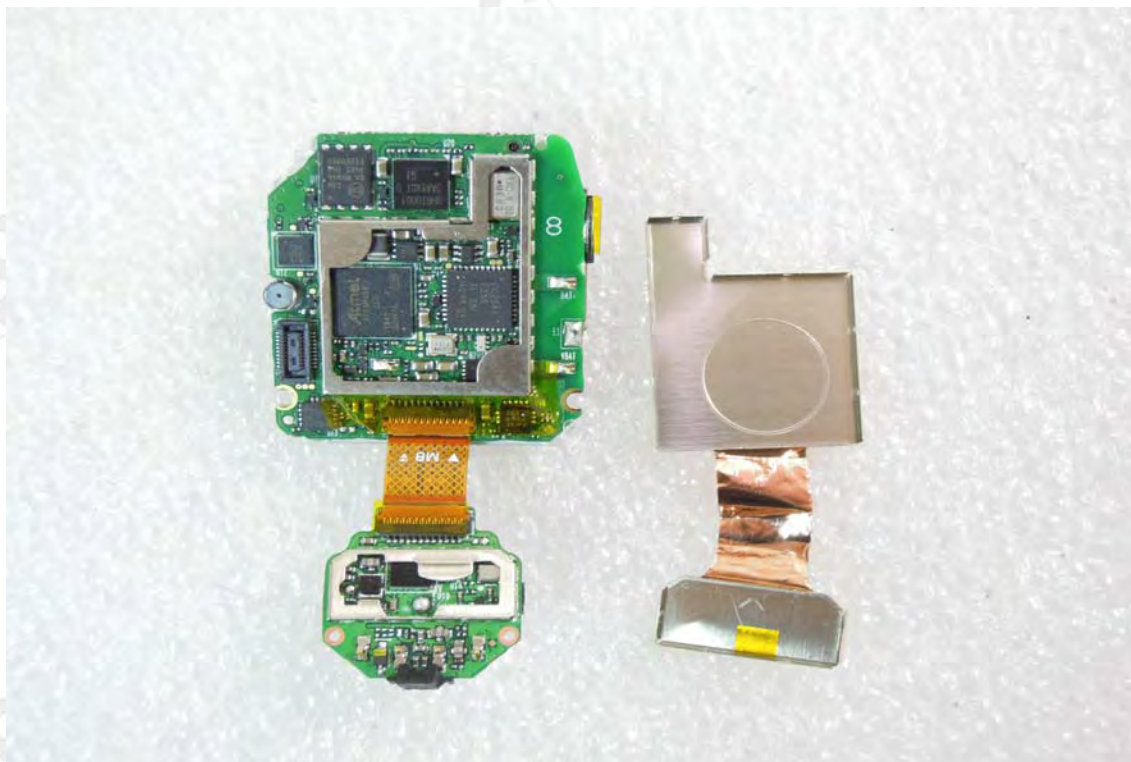
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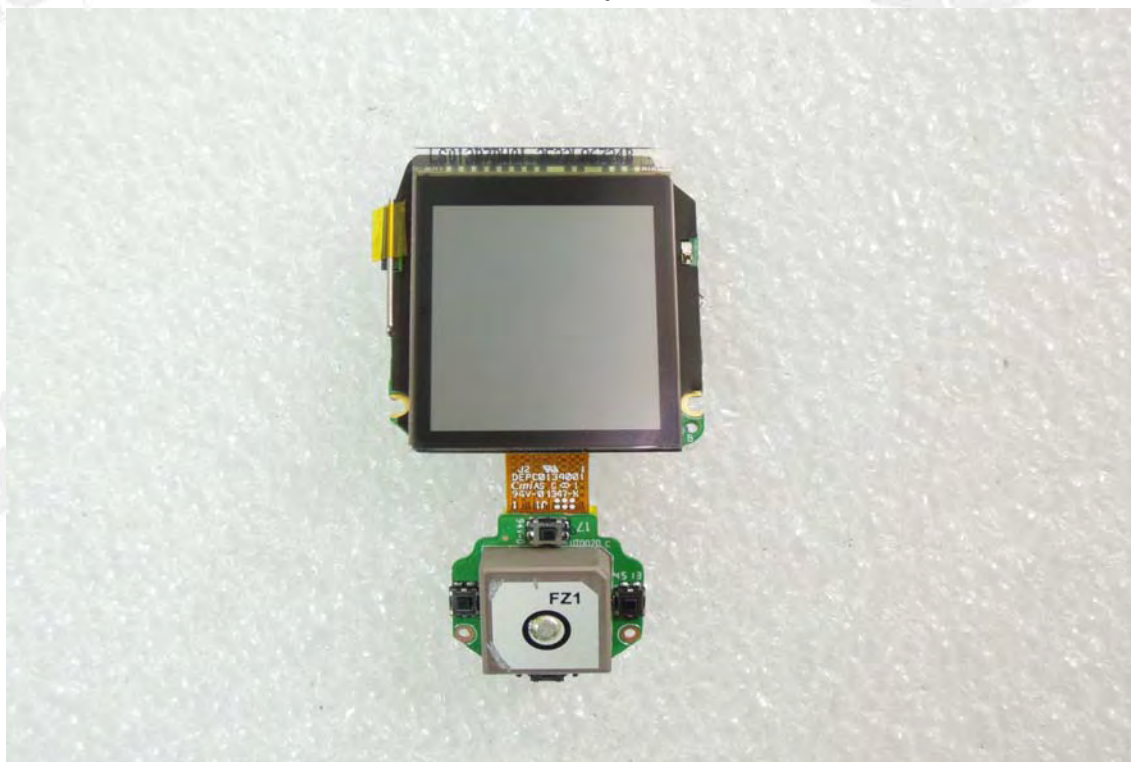
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*Internal View of EUT – 3*



*Internal View of EUT – 4*



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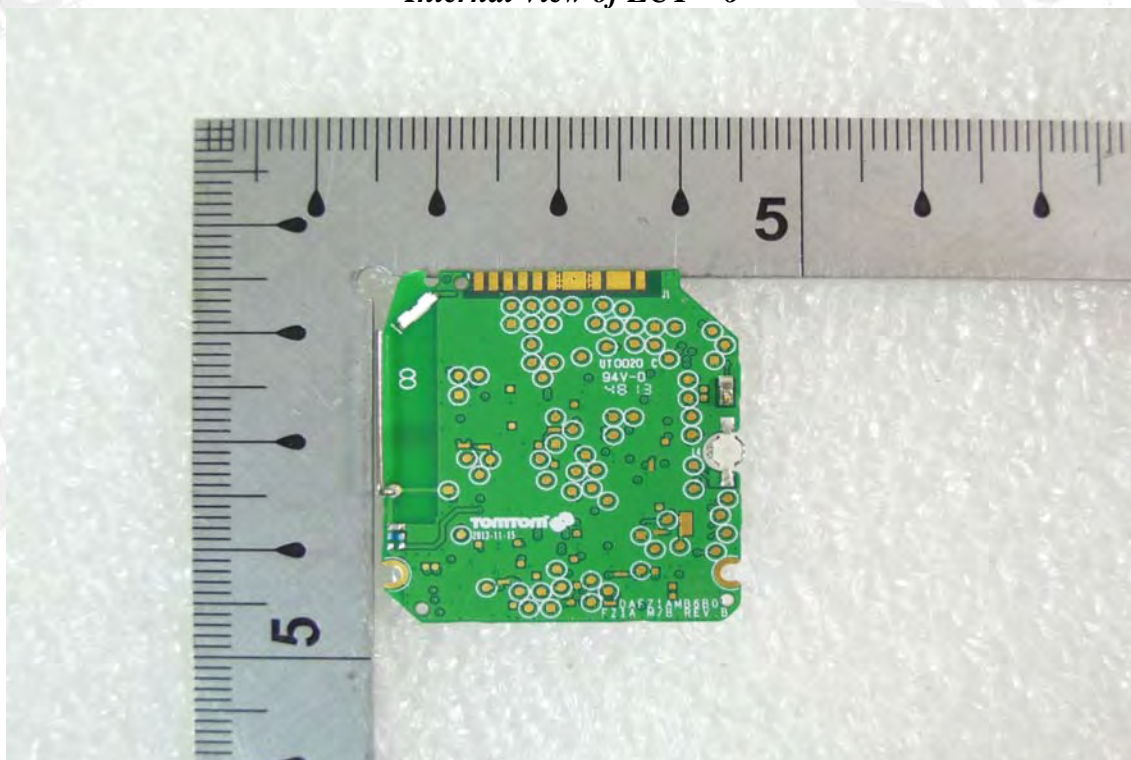
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*Internal View of EUT – 5*



*Internal View of EUT – 6*



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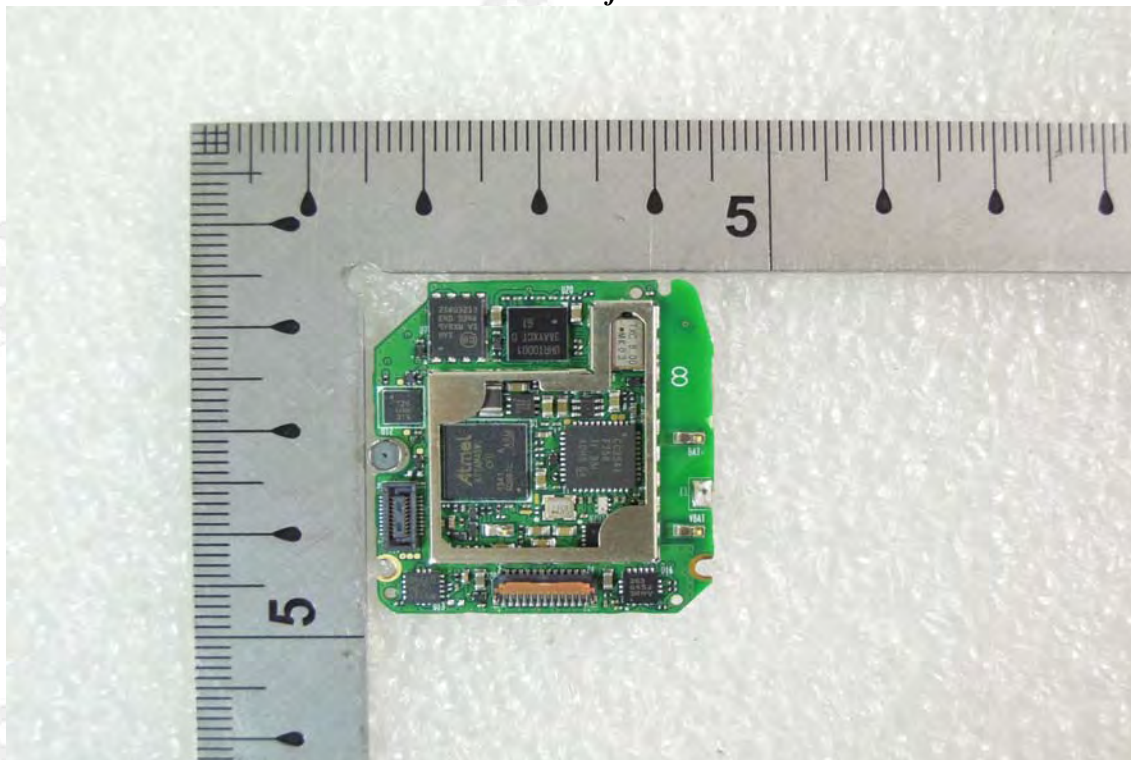
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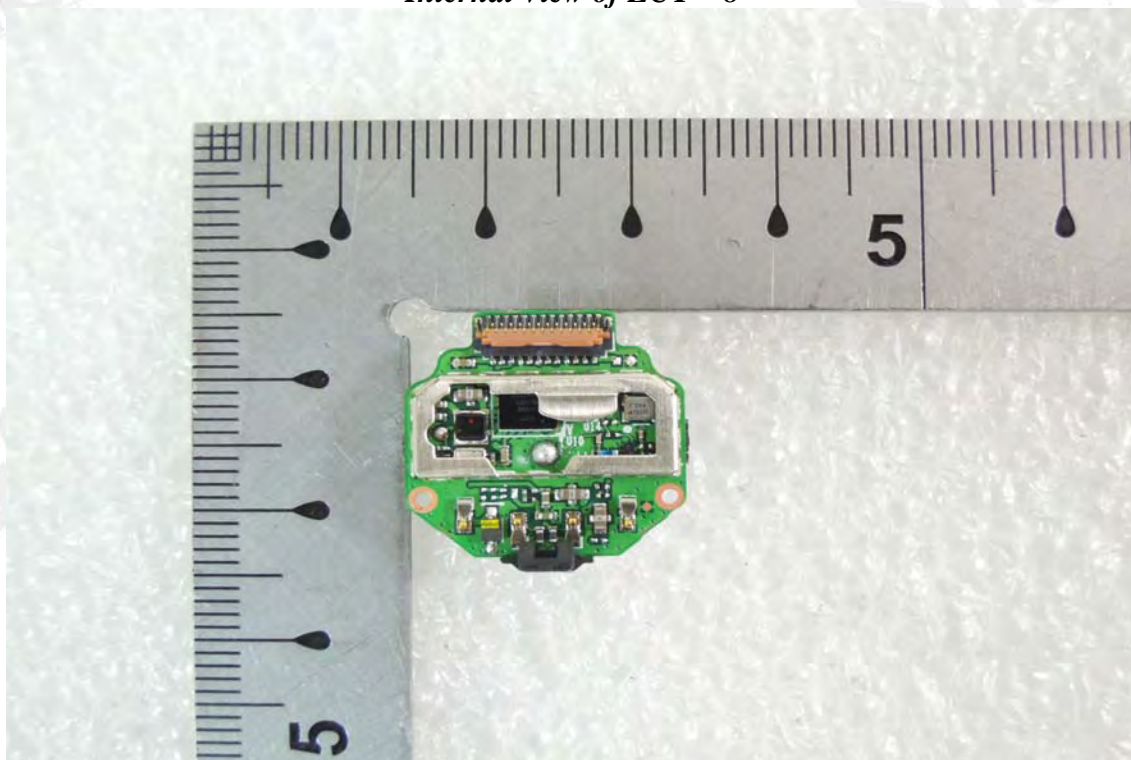
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*Internal View of EUT – 7*



*Internal View of EUT – 8*



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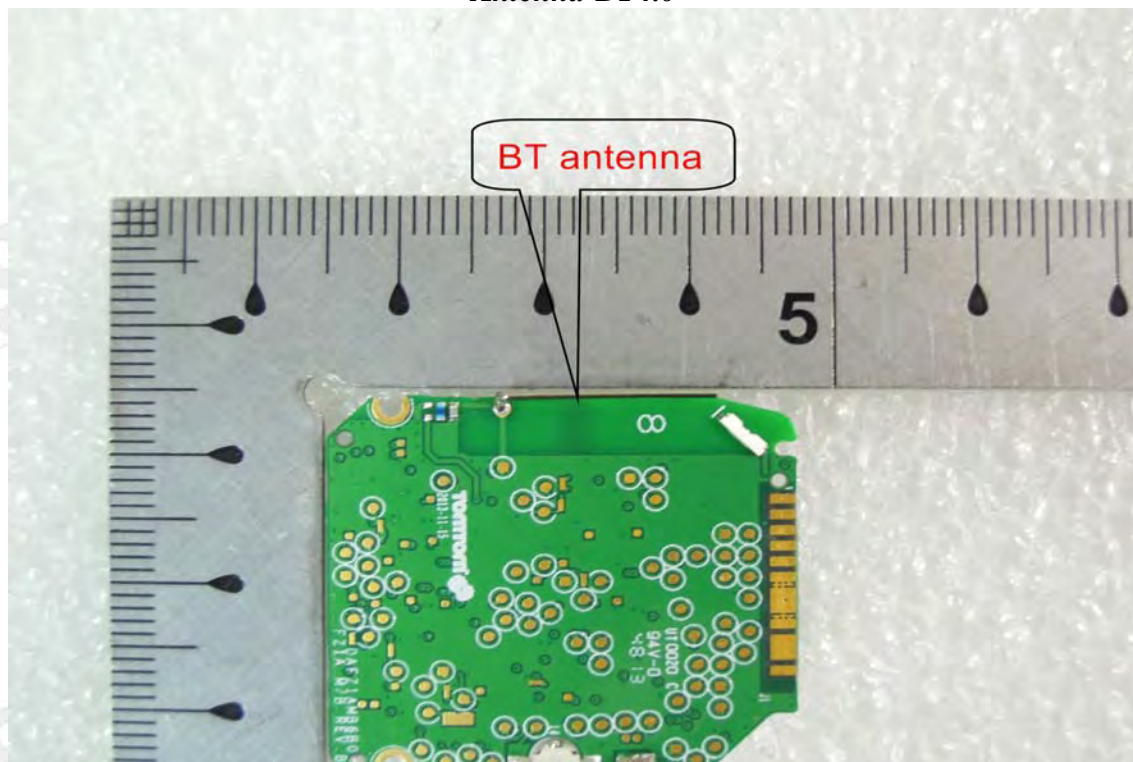
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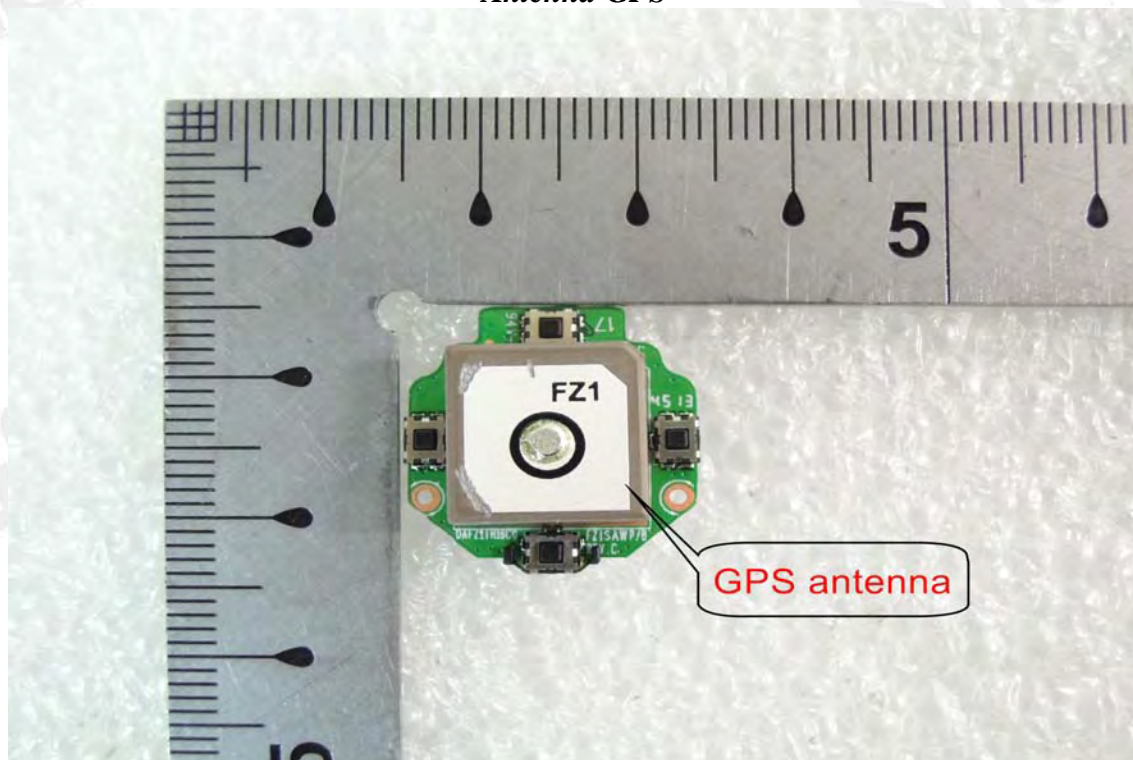
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*Antenna-BT4.0*



*Antenna-GPS*



~ End of Report ~

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