

## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

### DFS Measurement FOR

**Product Name:** Tablet PC  
**Brand Name:** Sahara, Tabletkiosk, PaceBlade  
**Model Name:** i500, TS500, SlimBook 240 Series  
**Model No. of  
WLAN Modular:** 622ANHMW  
**Model Different:** Different model for different market  
**FCC ID:** XHF TK500ABGNTS500  
**IC:** 8434A-500TS500  
**Report No.:** EF/2011/10007  
**Issue Date:** Mar. 25, 2011  
**FCC Rule Part:** §15.407  
**IC Rule Part:** RSS-210 issue 8:2010, Annex 9  
**Prepared for:** Tabletkiosk  
2832 Columbia Street, Torrance, California  
90503  
**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No. 134, Wu Kung Rd., Wuku Industrial  
Zone, Taipei County, Taiwan.



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## VERIFICATION OF COMPLIANCE

**Applicant:** Tabletkiosk  
2832 Columbia Street, Torrance, California 90503

**Product Name:** Tablet PC

**Brand Name:** Sahara, Tabletkiosk, PaceBlade

**FCC ID:** XHFTK500ABGNTS500

**IC:** 8434A-500TS500

**Model Name of Host:** i500, TS500, SlimBook 240 Series

**Model No. of WLAN**  
**Modular:** 622ANHMW

**Model Difference:** Different model for different market

**File Number:** EF/2011/10007

**Date of test:** Jan. 28, 2011 ~ Mar. 23, 2011

**Date of EUT Received:** Jan. 28, 2011

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with DFS requirement under FCC Rules Part 15.407 /Memorandum Opinion and Order of FCC 06-96 and RSS-210 issue 8: 2010 Annex 9.

The test results of this report relate only to the tested sample identified in this report.

**Test By:****Date:**

Mar. 25, 2011

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**Bondi Liu / Engineer****Prepared By:****Date:**

Mar. 25, 2011

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**Gigi Yeh / Clerk****Approved By:****Date:**

Mar. 25, 2011

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**Jim Chang / Supervisor**

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## Version

Version No.	Date	Description
00	Mar. 25, 2011	Initial creation of document

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

General:

Product name:	Tablet PC	
Brand Name:	Sahara, Tabletkiosk, PaceBlade	
Model Name:	i500, TS500, SlimBook 240 Series	
Model Difference:	Different model for different market	
WLAN module FCC ID:	PD9622ANXH	
WLAN module IC ID:	1000M-622ANH	
Power Supply:	11.1Vdc Li-Ion battery or 20Vdc from AC/DC power adapter	
	Battery:	Model: TSE57-3CLI, Supplier: T-Gee Electronics Co., LTD.
	Adapter:	Model: PA-1650-68 Supplier: LITE-ON TECHNOLOGY CORPORATION

This test report applies for client device in order to be compliant with DFS regulation.

*Note: The pertinent information with regards to the parameters of the detected Radar Waveforms is not available and accessible to the end user.*

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## 2. TPC AND DFS MEASUREMENT

### 2.1 TPC: STANDARD APPLICABLE

According to §15.407(h)(1), Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

**14.1.1. Result:** N/A, The output power is less than 500mW.

### 2.2 DFS: STANDARD APPLICABLE

According to §15.407(h)(2), Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection.

#### 2.2.1.Limit

**Table 1:Applicability of DFS requirements prior to use of a channel**

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Non-occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spareading	Yes	Not required	Not required

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**Table 2:Applicability of DFS requirements during normal operation**

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
<b>Cannel Closing Transmission time</b>	Yes	Yes	Yes
<b>Channel Move time</b>	Yes	Yes	Yes

**Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring**

Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.	

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Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 80% of the 99% power bandwidth See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate *Channel* changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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**Table 5: Radar Test Waveforms**  
**Short Pulse Radar**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

**Long Pulse Radar**

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

**Frequency Hopping Radar**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	.333	300	70%	30

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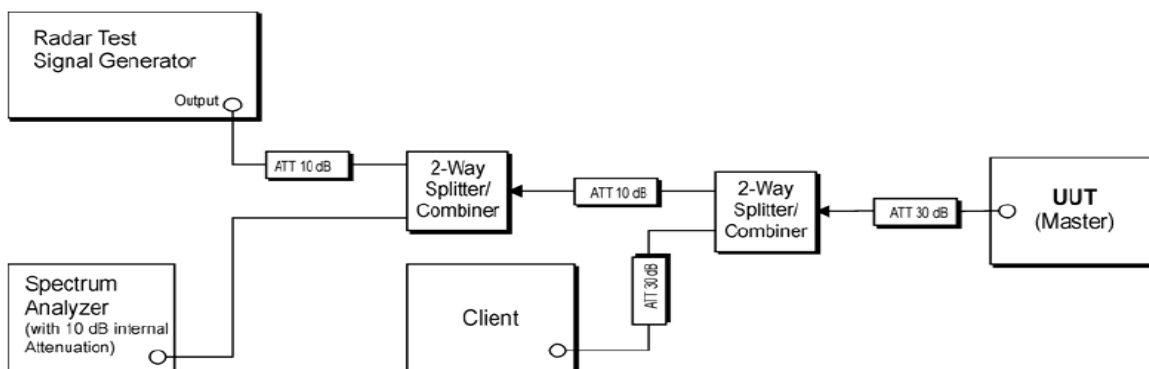
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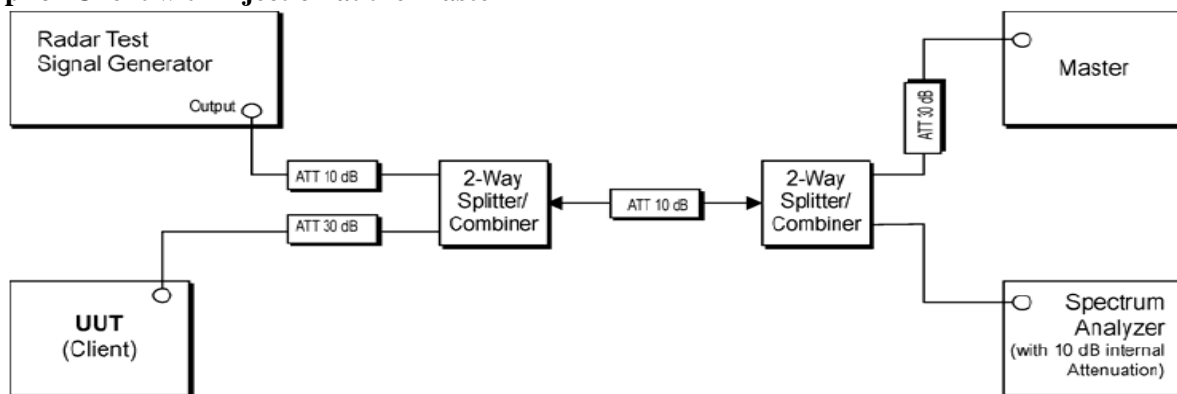
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## 2.2.2. Test Setup

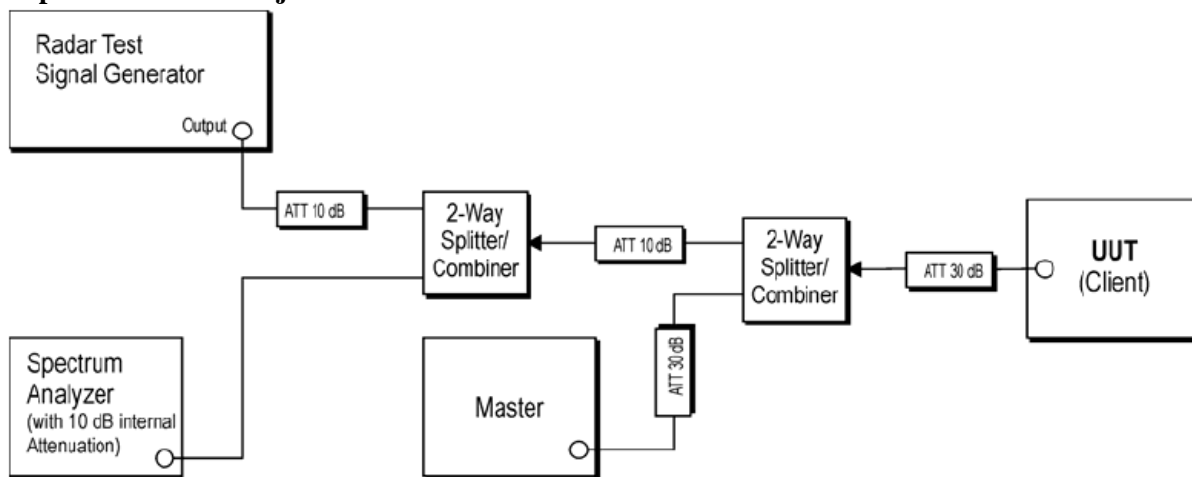
### Setup for Master with injection at the Master



### Setup for Client with injection at the Master



### Setup for Client with injection at the Client



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### 2.2.3. Test Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011
Splitter	Mini-Circuit	ZFSC-2-10G	001	07/05/2010	07/04/2011
Splitter	Mini-Circuit	ZFSC-2-10G	002	07/05/2010	07/04/2011
Splitter	Agilent	POWER DIVIDER	51818	07/05/2010	07/04/2011
Splitter	Agilent	POWER DIVIDER	51820	07/05/2010	07/04/2011
Access point	CISCO	AIR-AP1252 G-A-K9	FTX122091Y2 FCC ID: LDK102062	N/A	N/A
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY45093613	07/08/2010	07/07/2011

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#### 2.2.4. Descriptioin of EUT :

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability. EUT has a gain of 3dBi in the 5GHz Band.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20MHz  
WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is >23dBm(EIRP).therefore the required interference threshold level is -64dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is  $-64+6=-58$ , and the master device as employed for the applicable DFS test is CISCO router whose FCC ID= LDK102061

#### 2.2.5. Test results

Refer to next page for plots.

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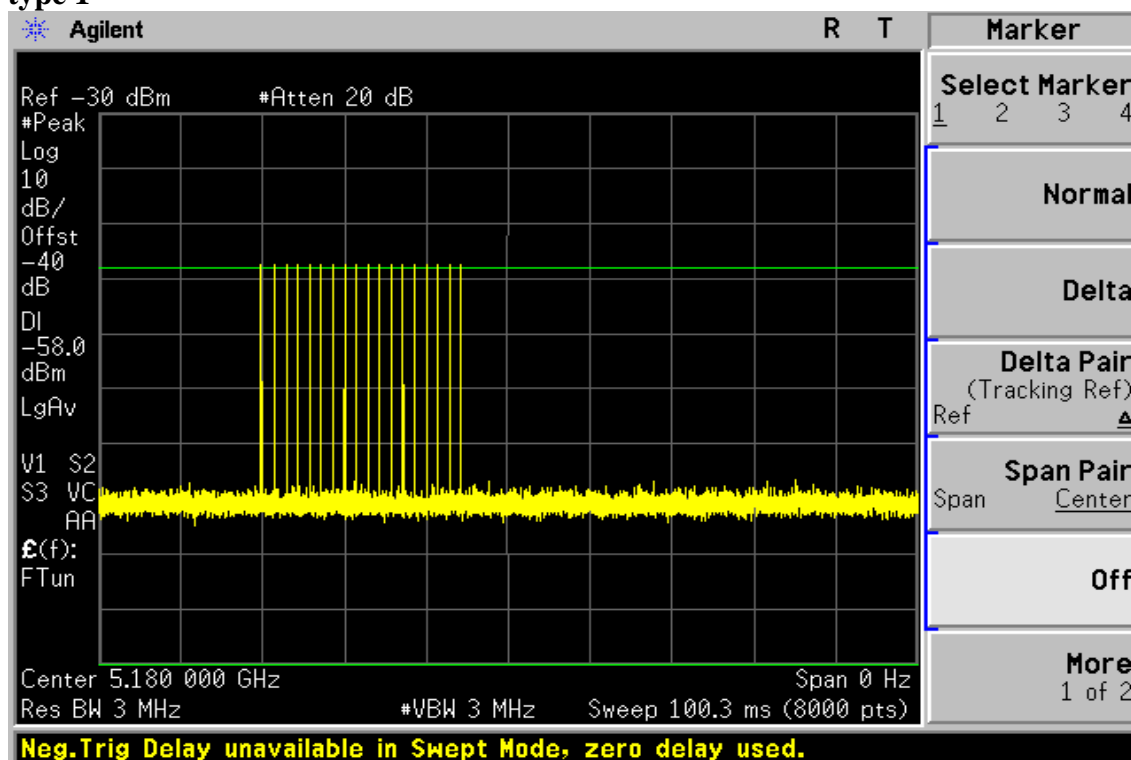
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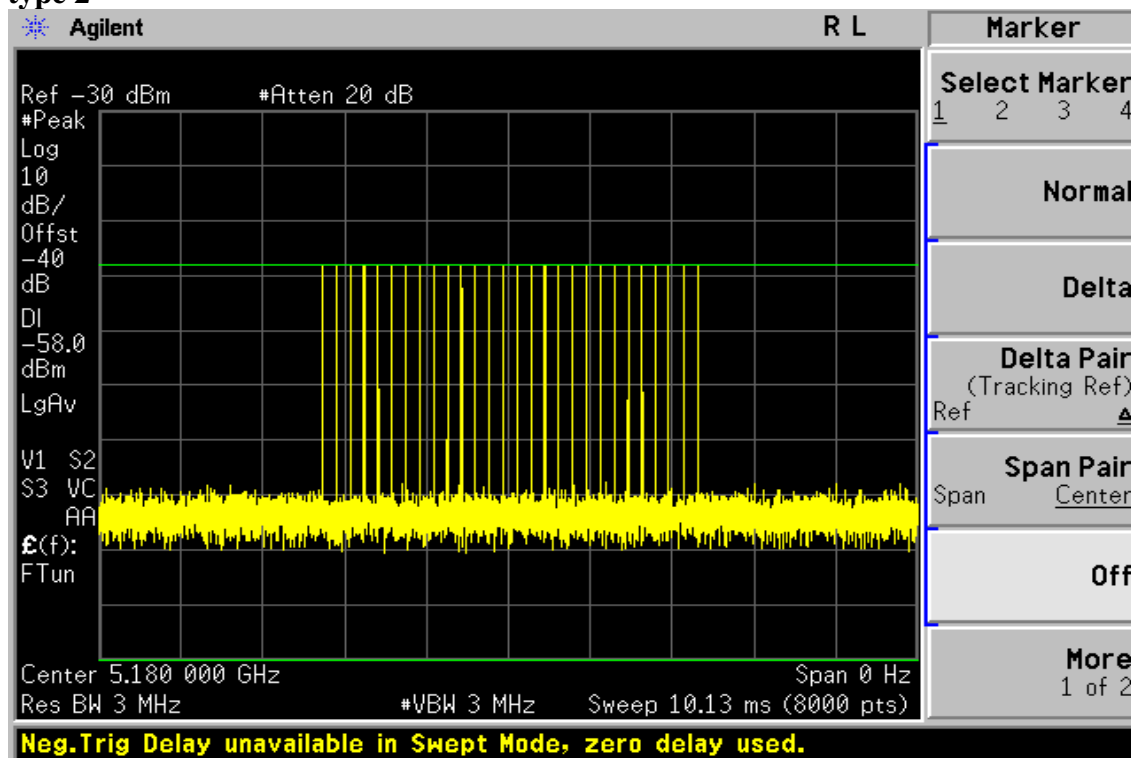
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## Calibration plots for each of the required radar waveforms

### Radar type 1



### Radar type 2



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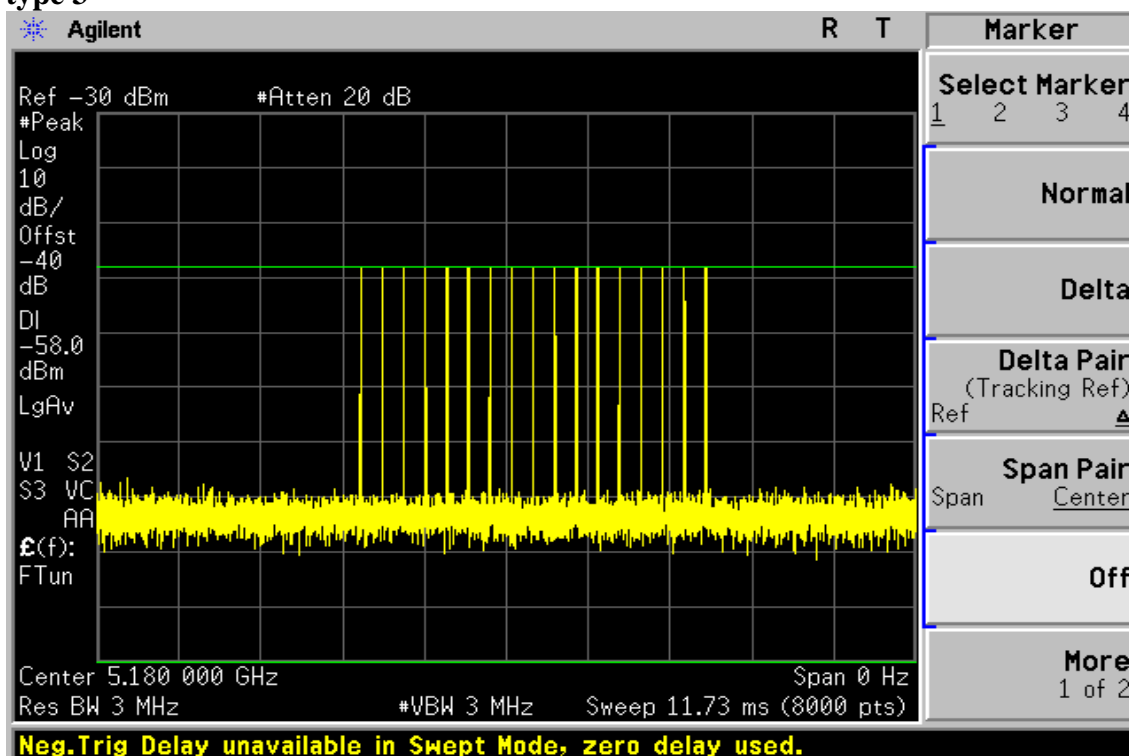
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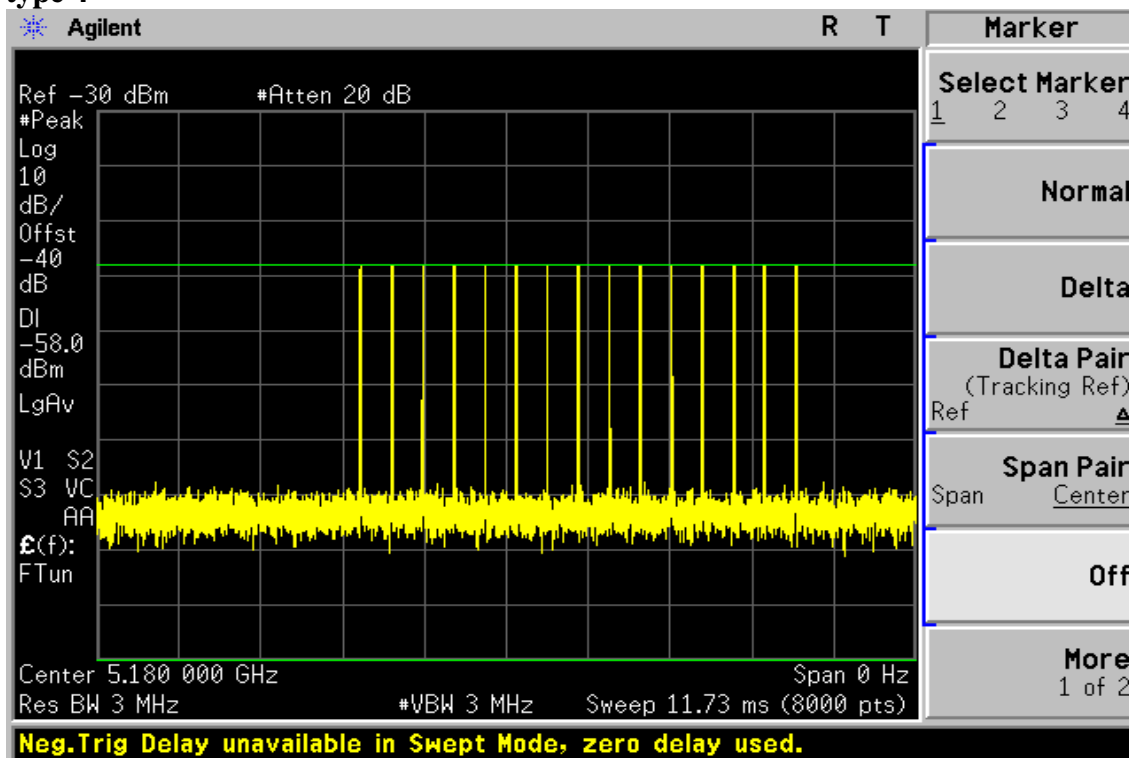
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## Radar type 3



## Radar type 4



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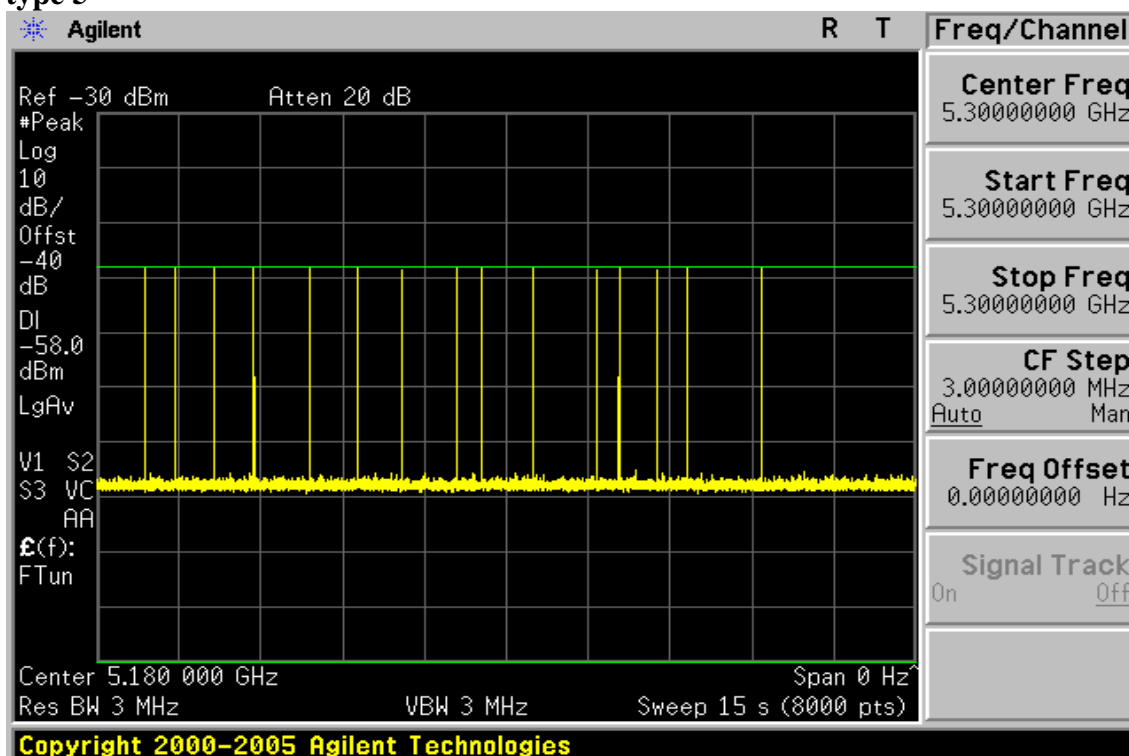
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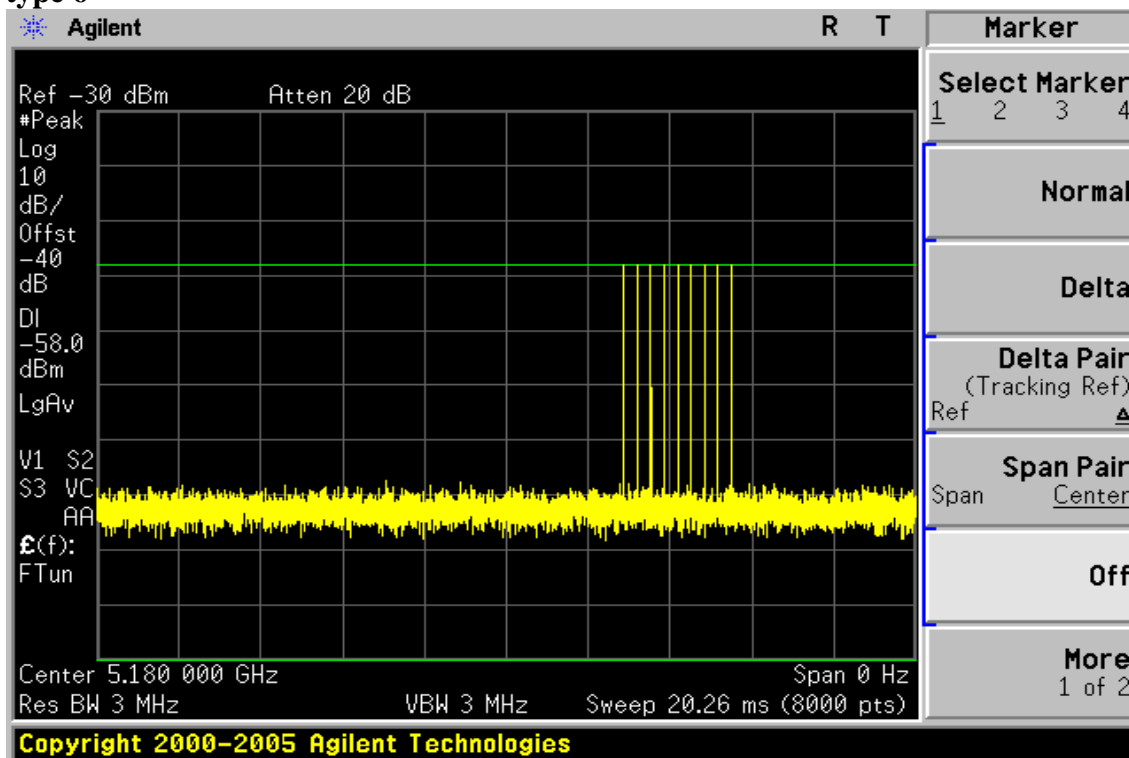
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## Radar type 5



## Radar type 6



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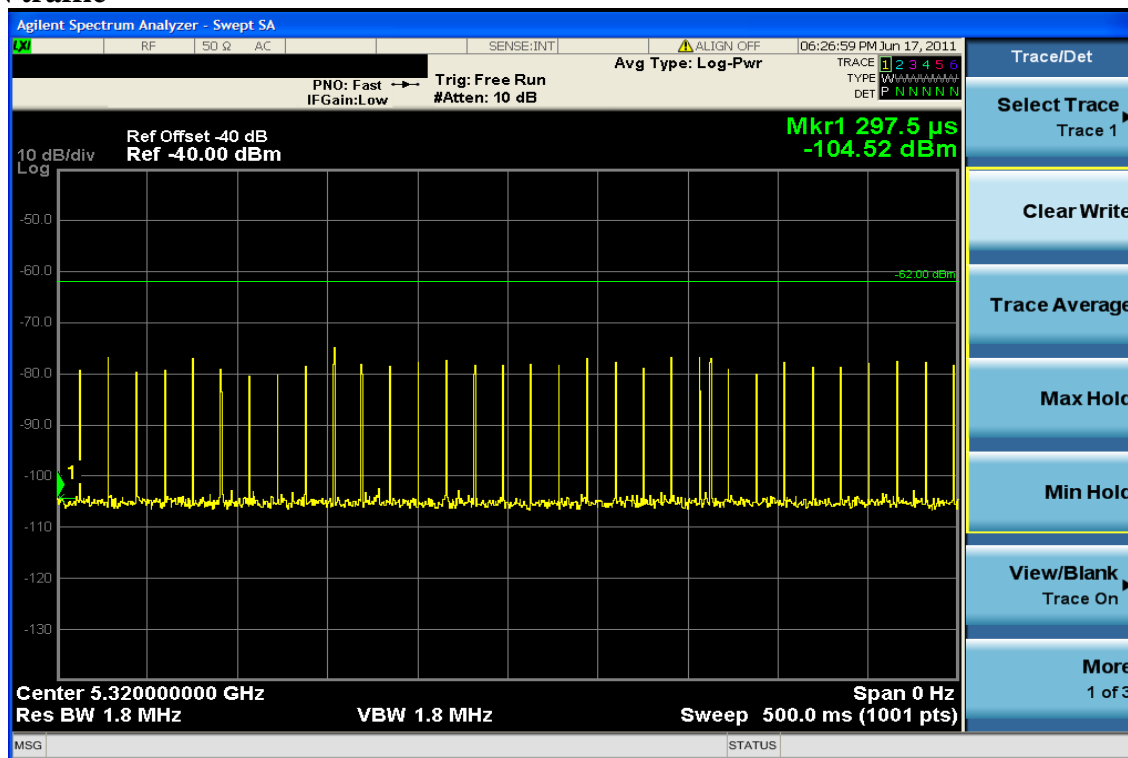
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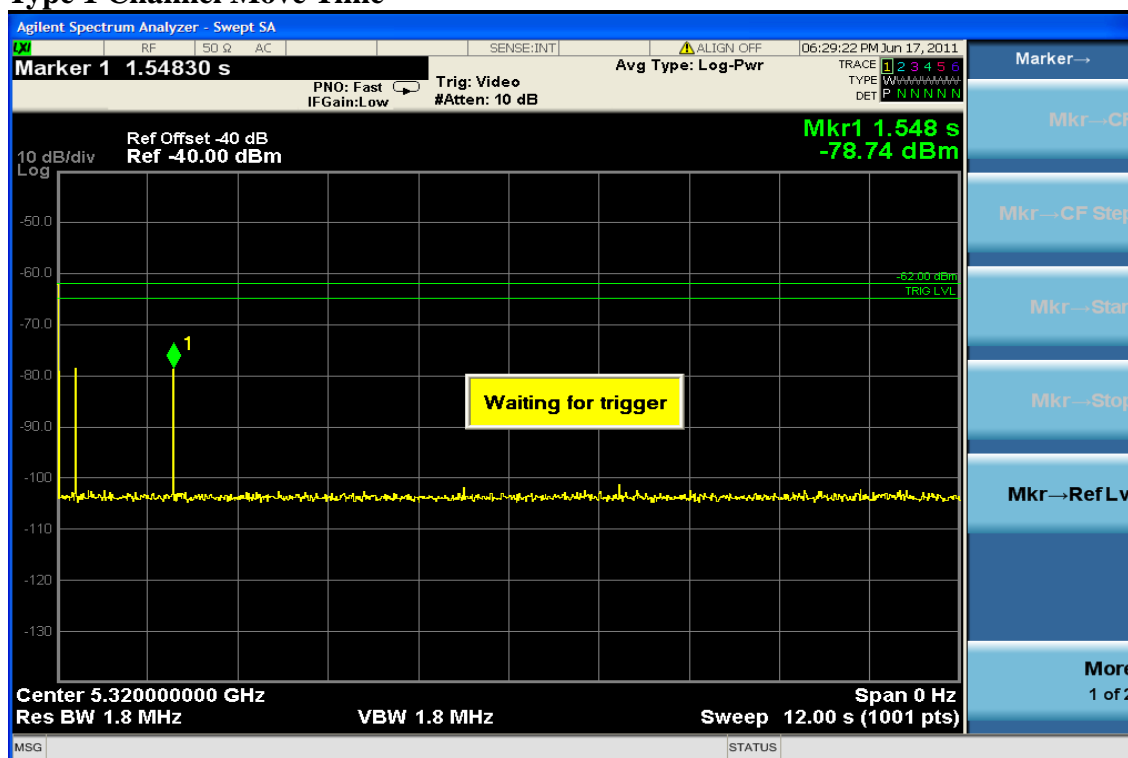
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## WLAN traffic



## Radar Type 1 Channel Move Time



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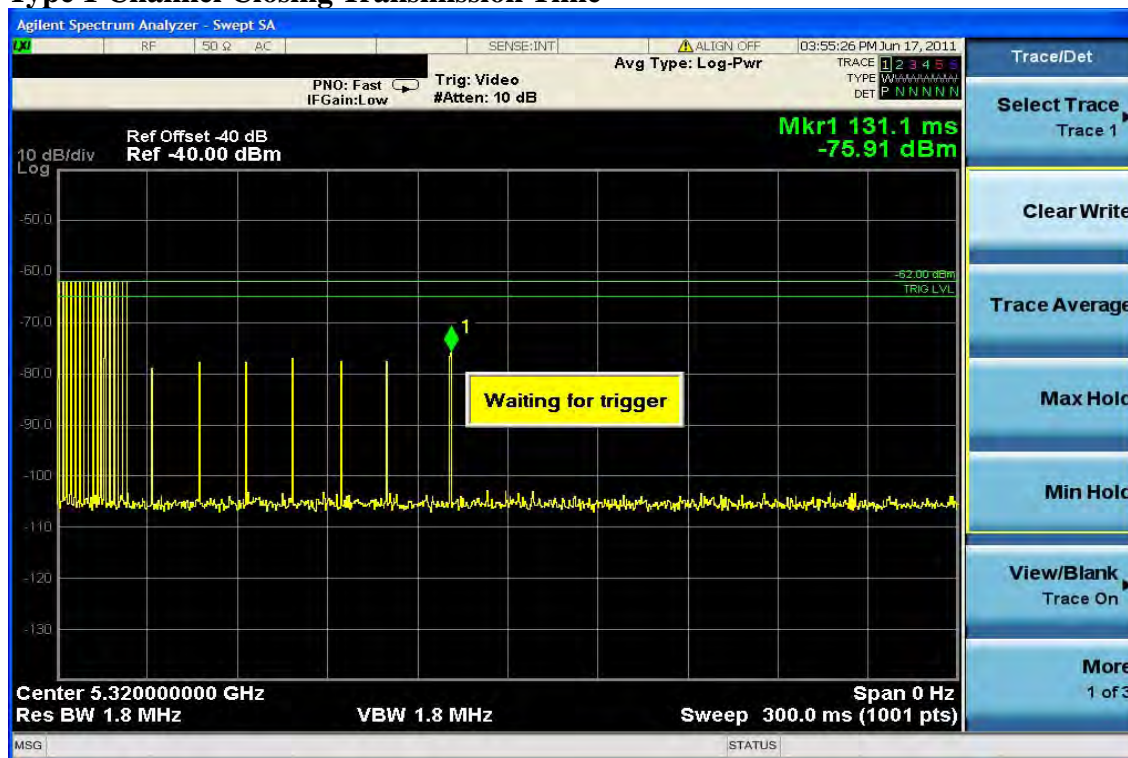
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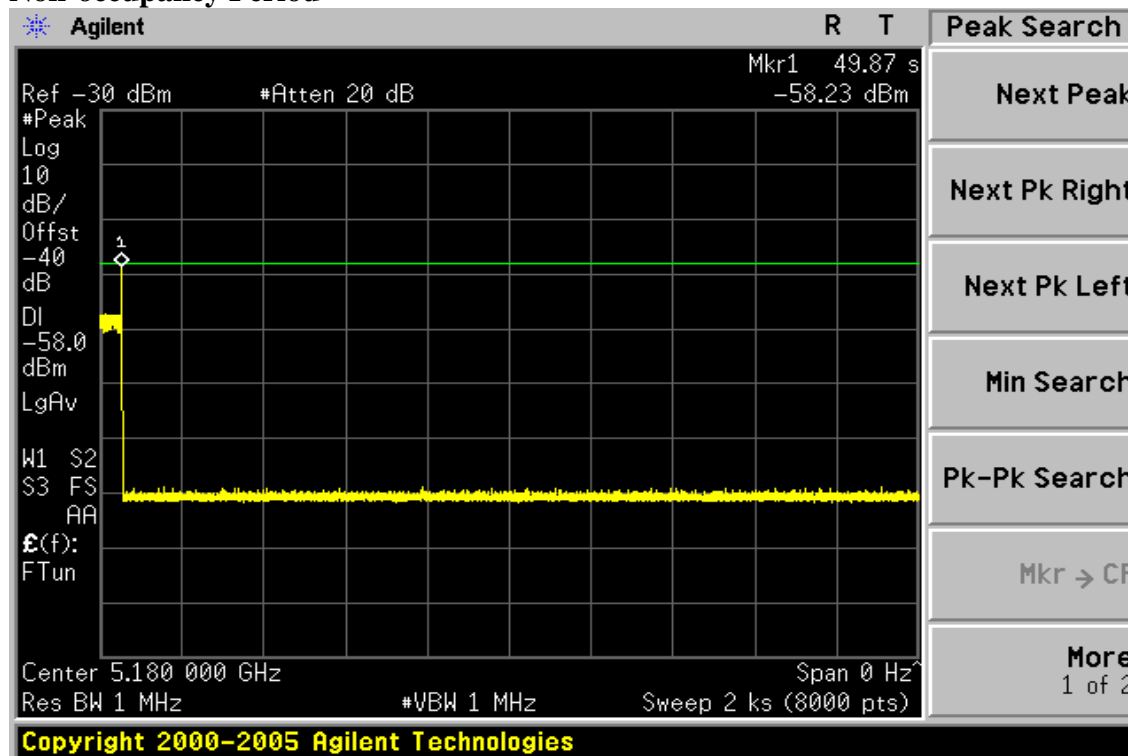


## Radar Type 1 Channel Closing Transmission Time



$$500.2\mu s * 3 = 1.5ms$$

## Non-occupancy Period



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## **APPENDIX 1**

### **PHOTOGRAPHS OF EUT**

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## All View of EUT



## Front View of EUT – 1



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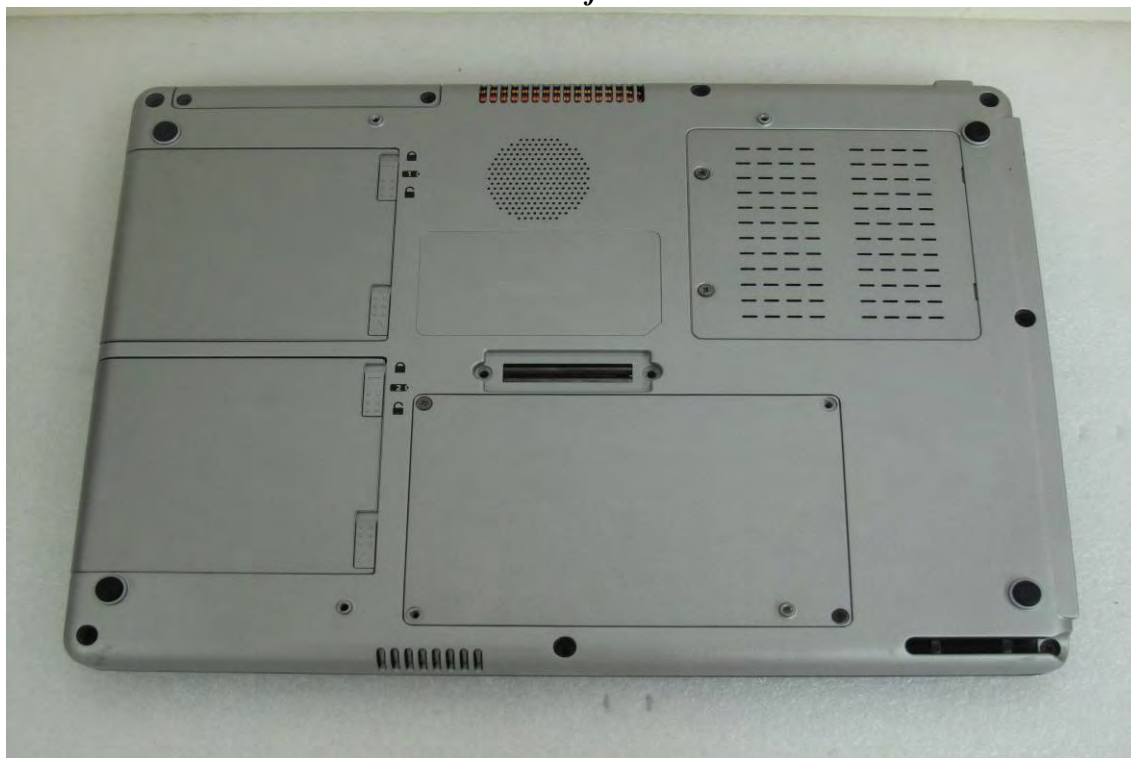
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*Back View of EUT – 1*



*Side View of EUT – 1*



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*Side View of EUT – 2*



*Side View of EUT – 3*



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## Battery



## Open View of EUT - 1



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## Open View of EUT – 2



## Internal View of EUT – 1



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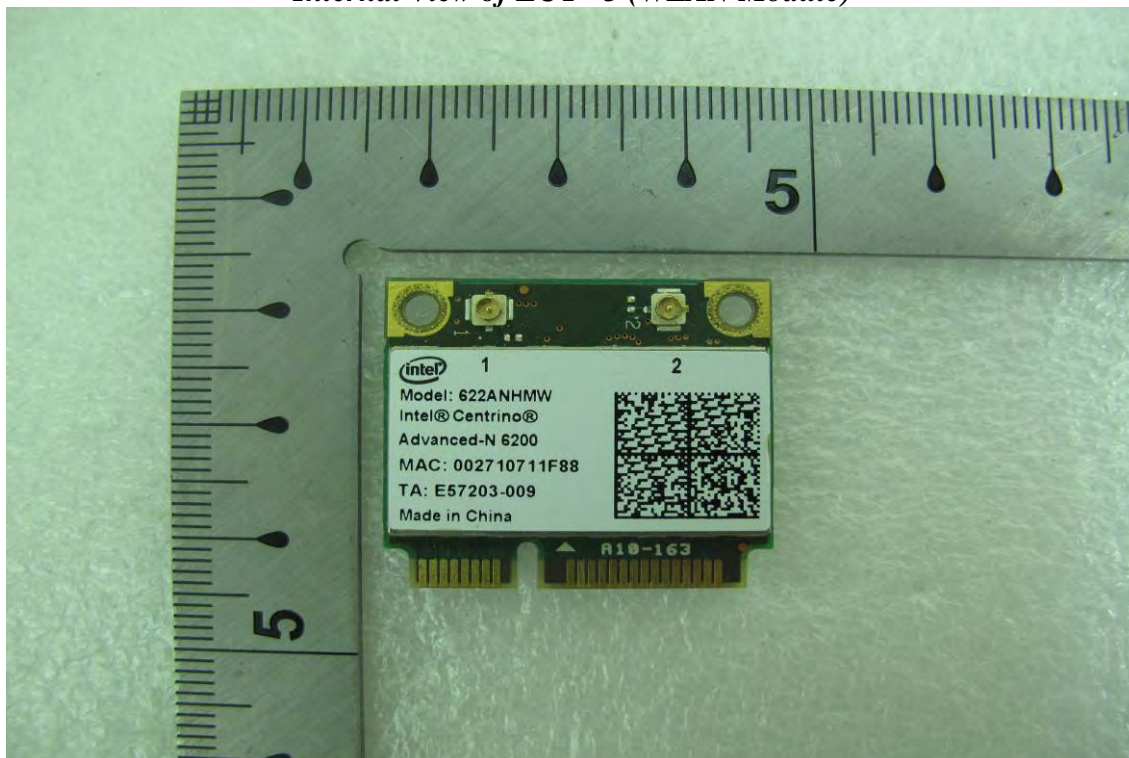
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## Internal View of EUT – 2 (WLAN Module)



## Internal View of EUT – 3 (WLAN Module)



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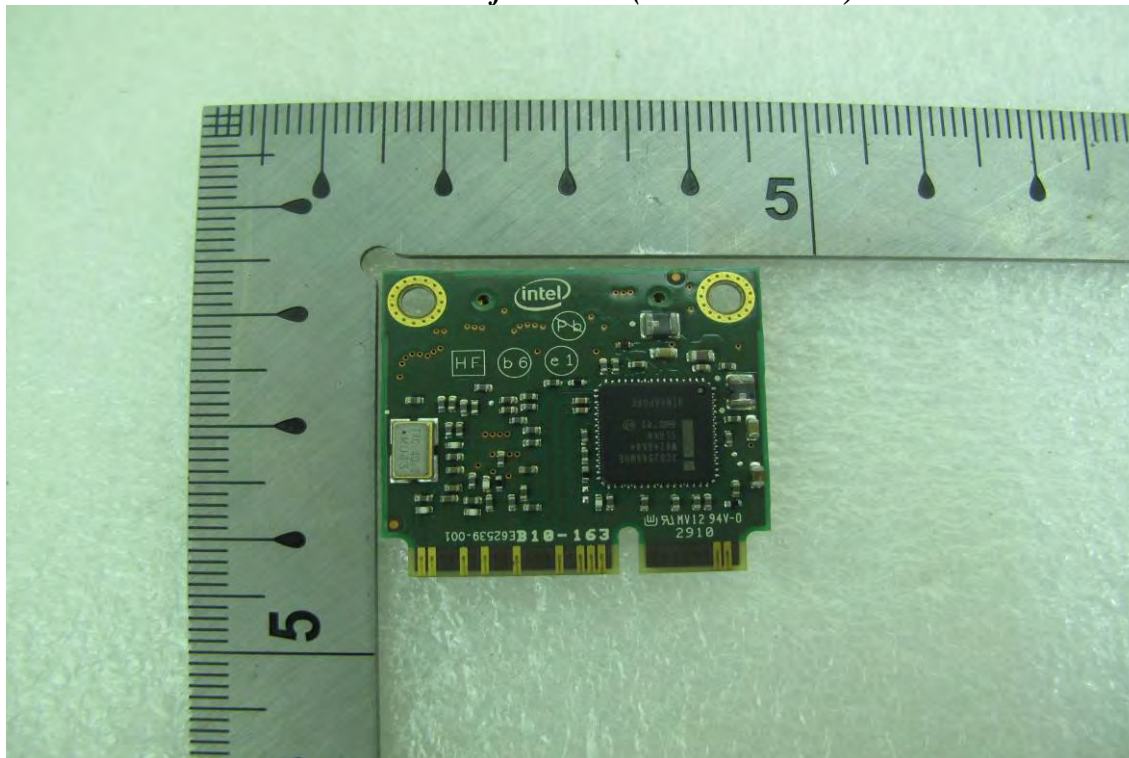
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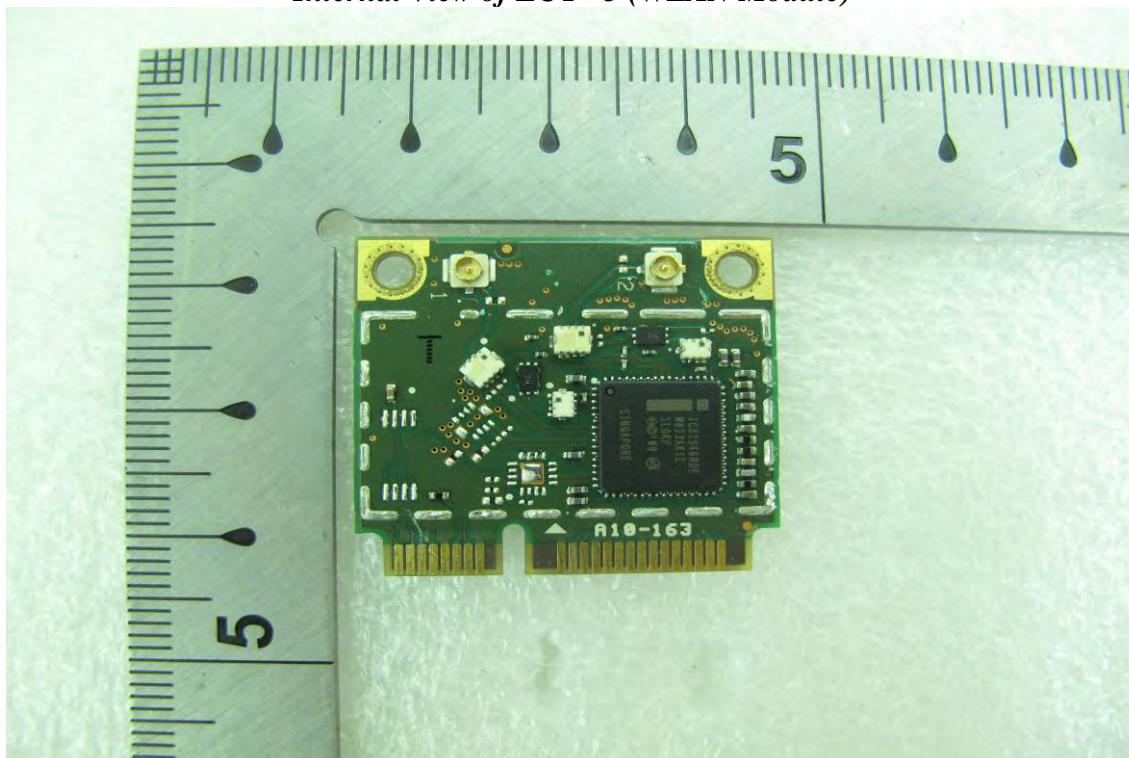
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*Internal View of EUT – 4 (WLAN Module)*



*Internal View of EUT – 5 (WLAN Module)*



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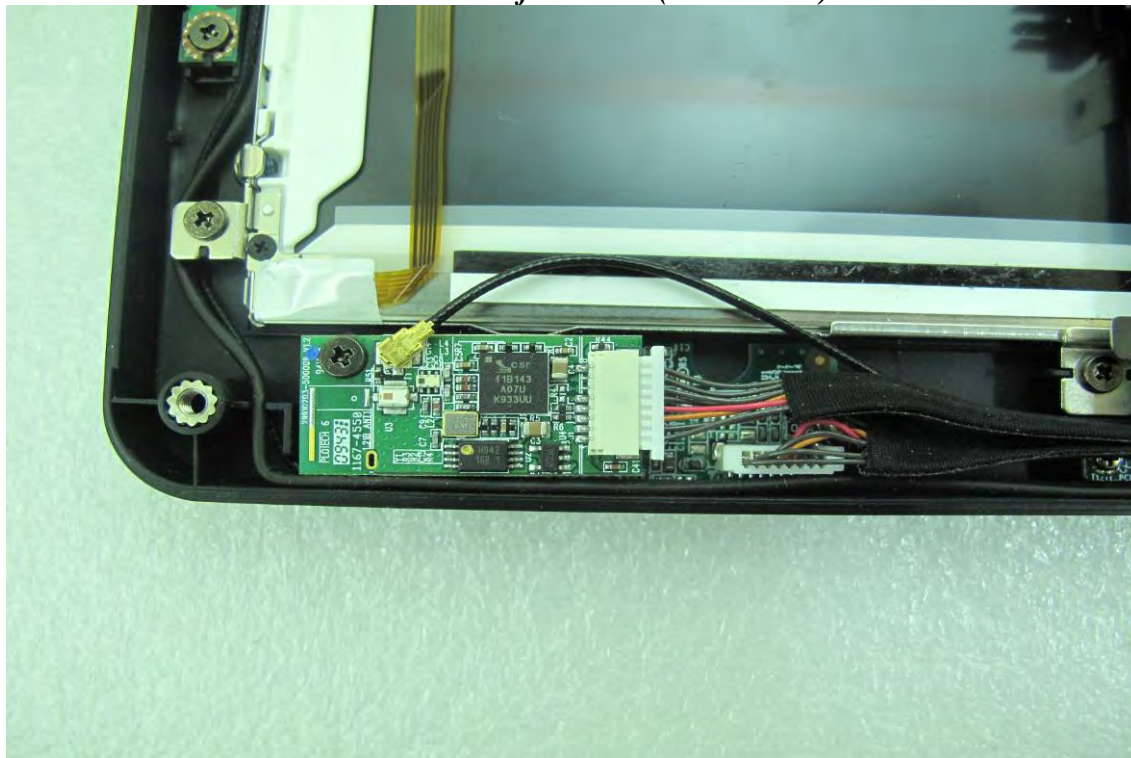
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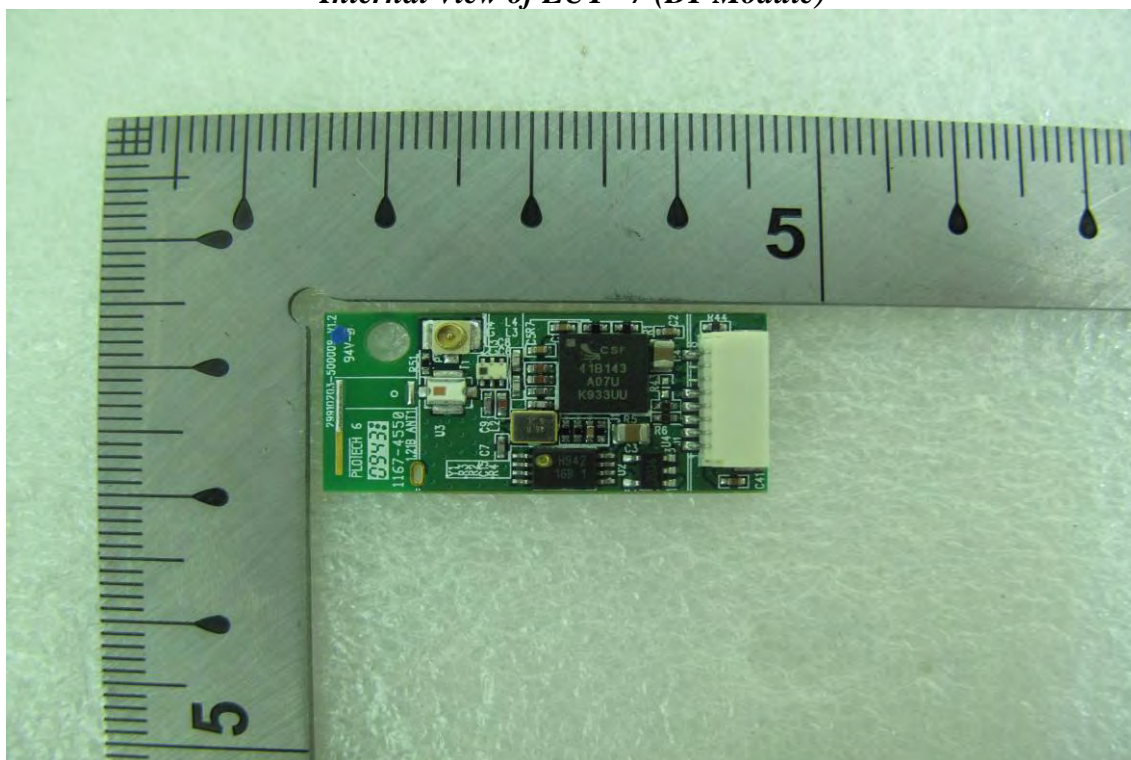
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*Internal View of EUT – 6 (BT Module)*



*Internal View of EUT – 7 (BT Module)*



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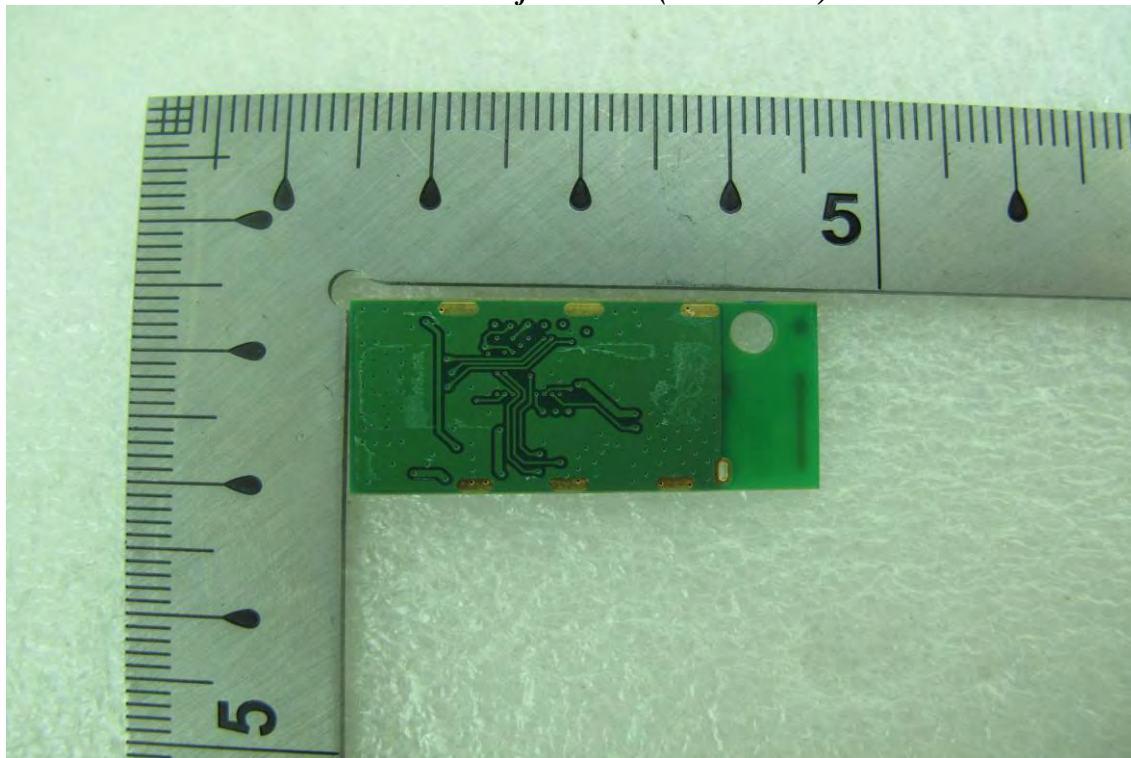
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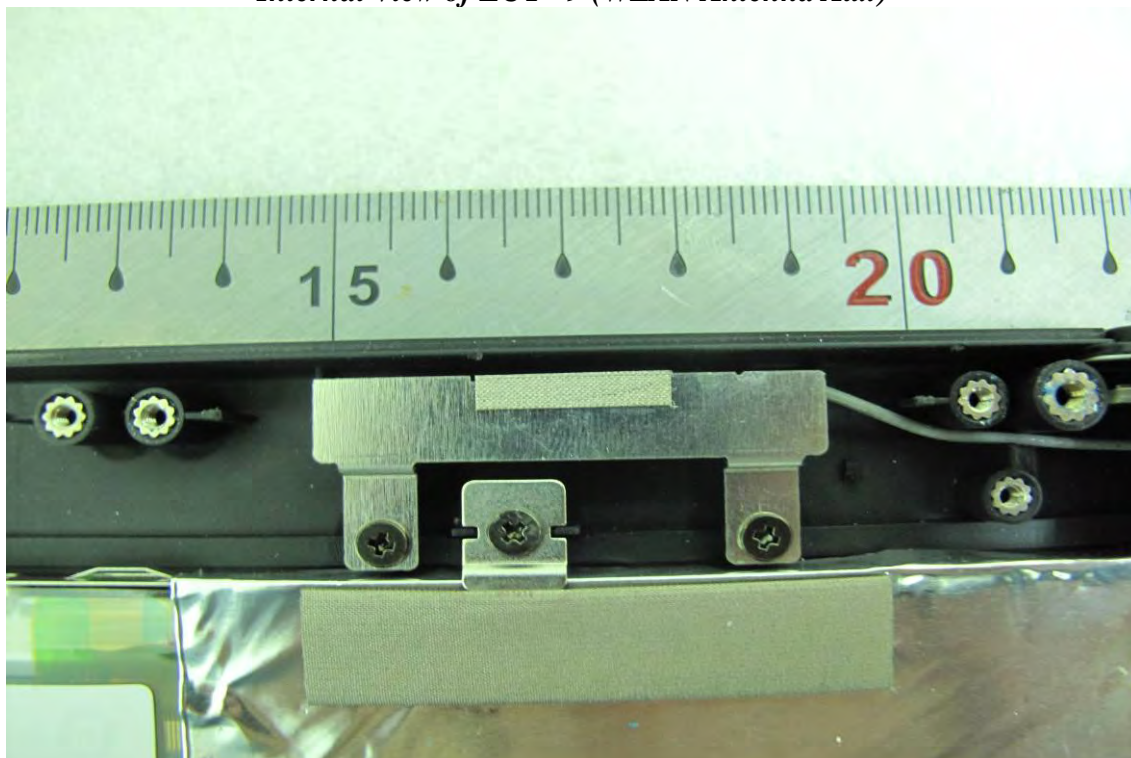
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*Internal View of EUT – 8 (BT Module)*



*Internal View of EUT –9 (WLAN Antenna Aux)*



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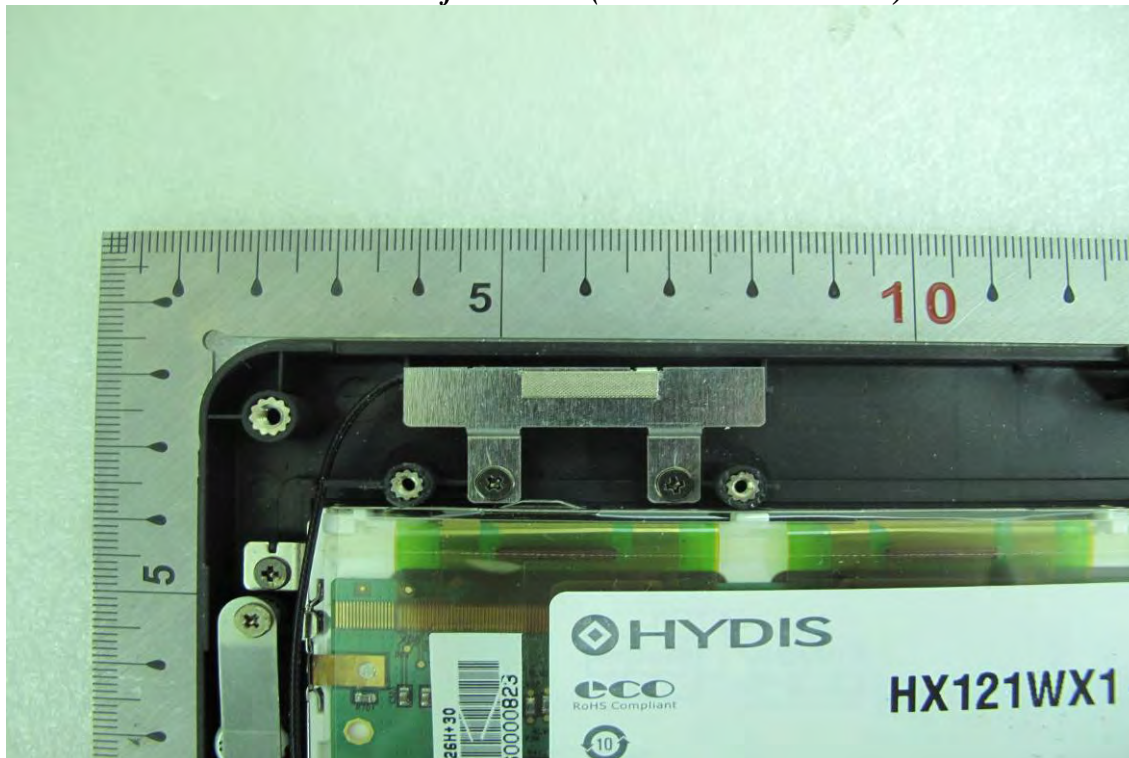
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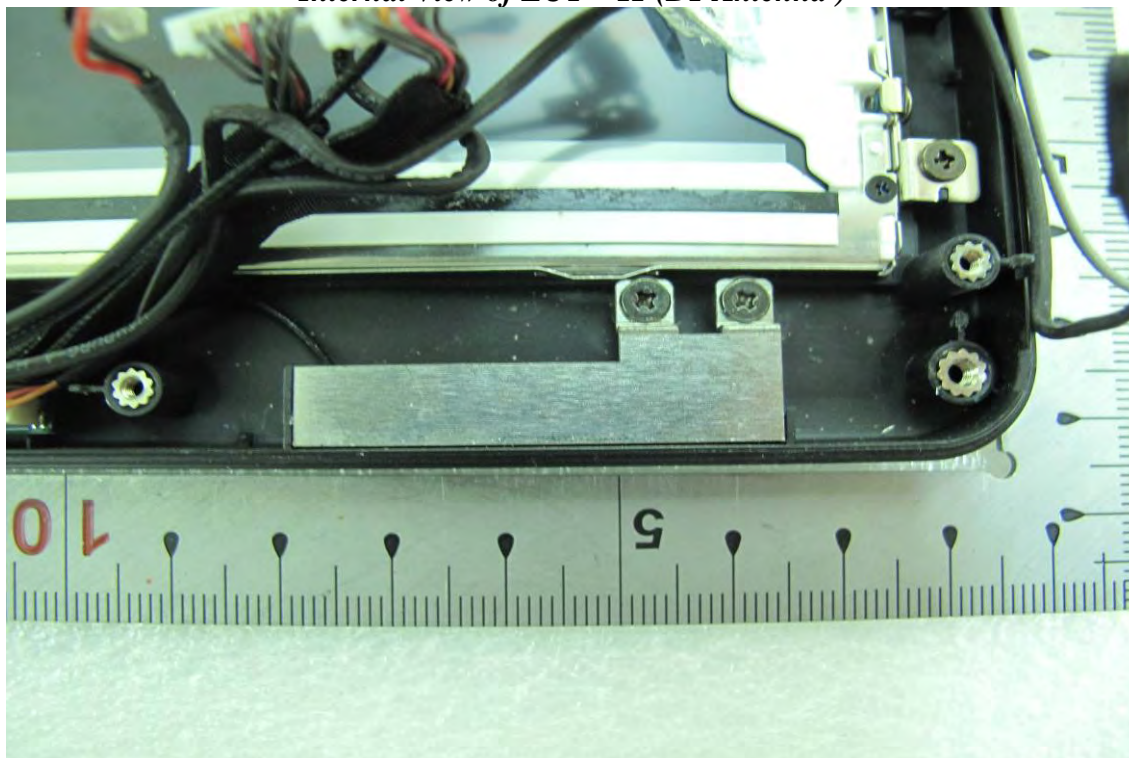
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*Internal View of EUT -10 (WLAN Antenna Main)*



*Internal View of EUT - 11 (BT Antenna )*



**- End of Report -**

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