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# FCC Test Report

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Report No.: AGC06352160301FE01

**FCC ID** : 2ADJEHXI6150CT

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Hisign Handheld Multi-biometric Device

**BRAND NAME** : Hisign MBioCheck

**MODEL NAME** : HX-I6150CT

**CLIENT** : Beijing Hisign Technology Co., Ltd.

**DATE OF ISSUE** : Apr.20, 2016

**STANDARD(S)** : FCC Part 15 Rules

**REPORT VERSION** : V1.0



Attestation of Global Compliance (Shenzhen) Co., Ltd

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr.20, 2016	Valid	Original Report

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## 1. VERIFICATION OF COMPLIANCE

<b>Applicant</b>	Beijing Hisign Technology Co., Ltd.
<b>Address</b>	2F-6F, Tower4, Hanwei International Square, Area4, No.186, West Road, 4th South Ring Road, Fengtai District, Beijing
<b>Manufacturer</b>	Beijing Hisign Technology Co., Ltd.
<b>Address</b>	2F-6F, Tower4, Hanwei International Square, Area4, No.186, West Road, 4th South Ring Road, Fengtai District, Beijing
<b>Product Designation</b>	Hisign Handheld Multi-biometric Device
<b>Brand Name</b>	Hisign MBioCheck
<b>Test Model</b>	HX-I6150CT
<b>Date of test</b>	Mar.14, 2016 to Mar.28, 2016
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal

### WE HEREBY CERTIFY THAT:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Tested By

Dota Zhang(Zhang Jianfeng)

Apr.20, 2016

Reviewed By

Bart Xie(Xie Xiaobin)

Apr.20, 2016

Approved By

Solger Zhang(Zhang Hongyi)

Authorized Officer

Apr.20, 2016

## 2. EUT DESCRIPTION

The EUT is a short range, lower power, Wireless transmitter.

Details of technical specification refer to the description in follows:

Product Designation:	Hisign Handheld Multi-biometric Device
Brand Name:	Hisign MBioCheck
Test Model:	HX-I6150CT
Hardware Version:	P60-MB-V3.0
Software Version:	P60-S00C_HISGEN_V23_160106
Operation Frequency:	13.56MHz
Number of Channels:	1 Channel
Antenna Type:	PIFA Antenna
Power Supply:	DC 3.7V by battery

**NOTE:** For more information, please refer to User's Manual.

## 3. DESCRIPTION OF TEST MODES

The EUT has been tested under Normal Operating and standby condition.

#### 4. TEST FACILITY

<b>Site</b>	Dongguan Precise Testing Service Co., Ltd.
<b>Location</b>	Building D, Baoding Technology Park, Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
<b>FCC Registration No.</b>	371540
<b>Description</b>	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013.

#### TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Radiated Emission Test Site					
<b>Name of Equipment</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Last Calibration</b>	<b>Due Calibration</b>
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016
Shielded Room	CHENGYU	843	PTS-002	June 6,2015	June 5,2016

## 5. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§ 15.207	Conducted emission	Compliant
§15.35/15.205/ 15.209/15.225	Radiated Emission	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215	Occupied Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

## 6. MEASUREMENT UNCERTAINTY

No.	Item	MU
1	Radio Frequency	$\pm 1 \times 10^{-9}$
2	Temperature	$\pm 0.1^\circ\text{C}$
3	Humidity	$\pm 1.0\%$
4	RF power, conducted	$\pm 0.34\text{dB}$
5	RF power density, conducted	$\pm 2.75\text{dB}$
6	Spurious emissions, conducted	$\pm 3.70\text{dB}$
7	All emissions, radiated	$\pm 3.20\text{dB}$

## 7. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting

Note:

1. All the test modes can be supply by DC 3.7V, only the result of the worst case was recorded in the report if no any records.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

## **8. ANTENNA REQUIREMENT**

### **8.1. STANDARD APPLICABLE**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **8.2. TEST RESULT**

This product has a Integral antenna, fulfill the requirement of this section.

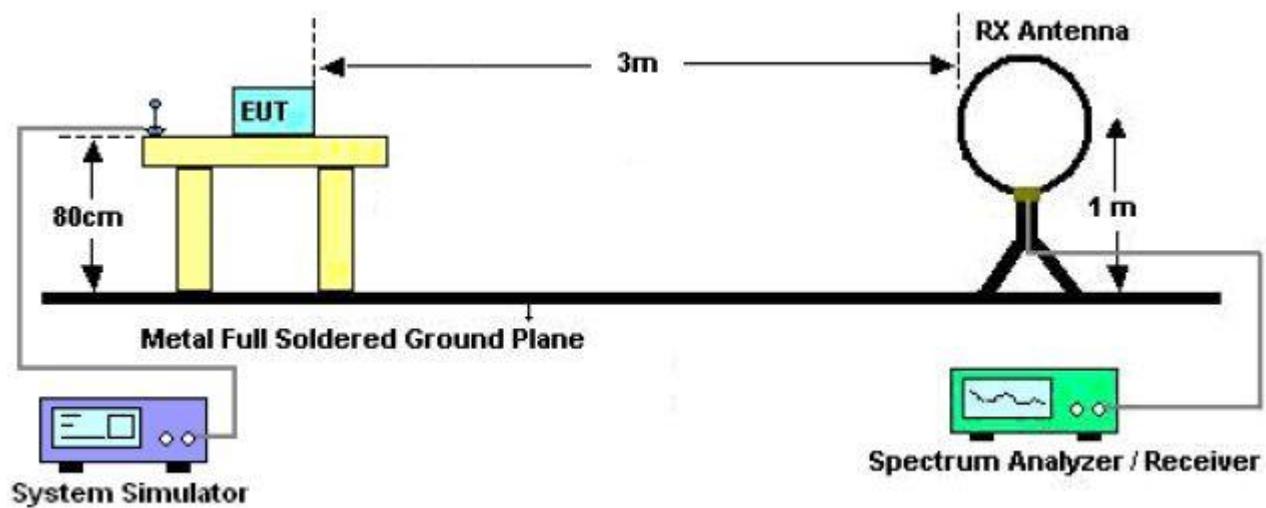
## 9. RADIATED EMISSION

### 9.1 MEASUREMENT PROCEDURE

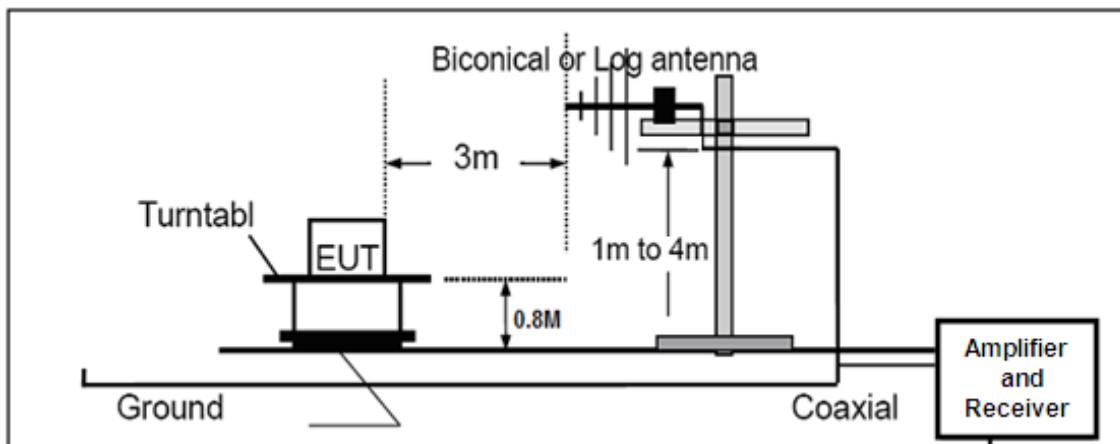
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. The frequency spectrum from 9kHz to 5GHz was investigated. All readings from 9kHz to 30MHz are quasi-peak values with a resolution bandwidth of 10 kHz, measured with loop antenna. All readings from 30MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz, measured with Bi-log antenna.

### 9.2 TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### 9.3 LIMITS AND MEASUREMENT RESULT

According to 15.225,

- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Frequencies	Field Strength at 30m	Field Strength at 30m	Field Strength at 3m
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(MHz)	(micorvolts/meter)	(dBuV/m)	(dBuV/m)
13.553~13.567	15.848	84	124
13.410~13.553	334	50.5	90.5
13.567~13.710			
13.110~13.410	106	40.5	80.5
13.710~14.010			

According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.

According to 15.225,

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Frequencies in restricted band are complied to limit on Paragraph 15.209.

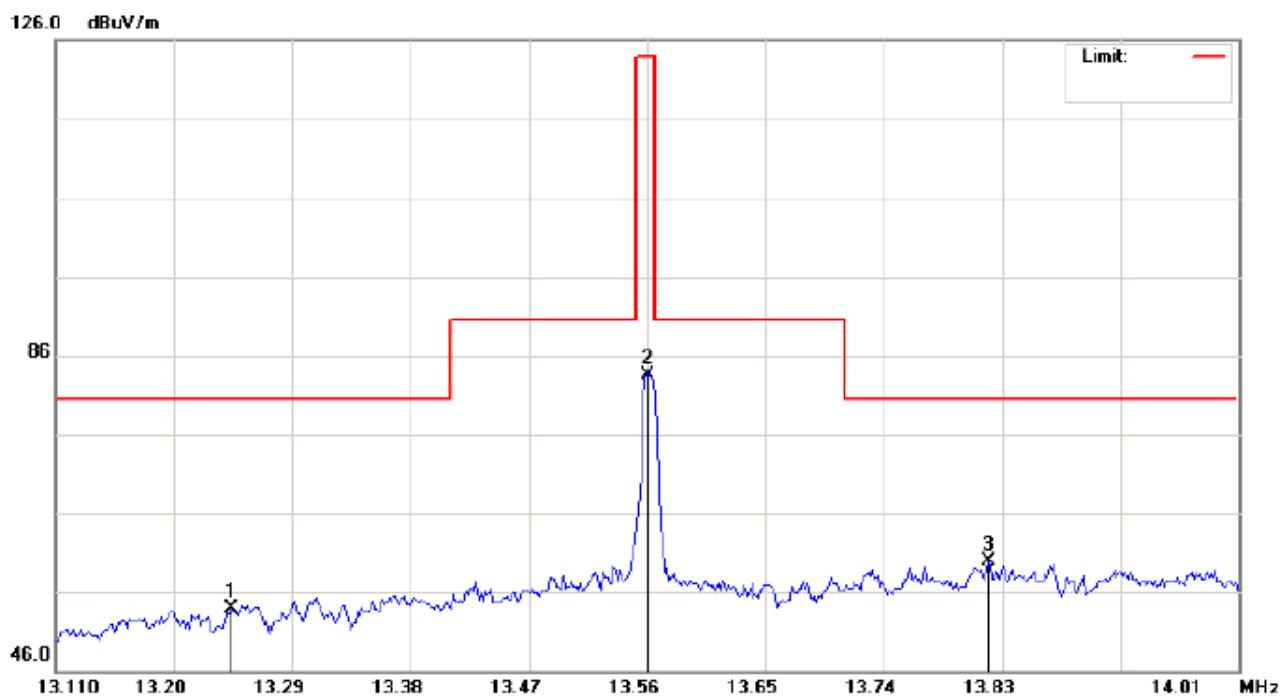
Frequency Range (MHz)	Distance (m)	Field Strength at 30m (micorvolts/meter)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1) RF Voltage (dBuV) = 20 log RF Voltage (uV)  
 2) In the Above Table, the tighter limit applies at the band edges.  
 3) Distance refers to the distance in meters between the measuring instrument antenna and the EUT  
 4) The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.  
 5) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula  $Ld1 = Ld2 * (d2/d1)$

## 9.4 TEST RESULT

### RADIATED EMISSION BELOW 30MHZ

RADIATED EMISSION TEST- (13.110MHZ-14.010MHZ) –HORIZONTAL



Site: site #1

Limit: part 225 13.11M-14.010M

EUT: Hisign Biometric Mobile Device

M/N: HX-I6150CT

Mode: Transmitting

Note:

Polarization: *Horizontal*

Power: AC 120V/60Hz

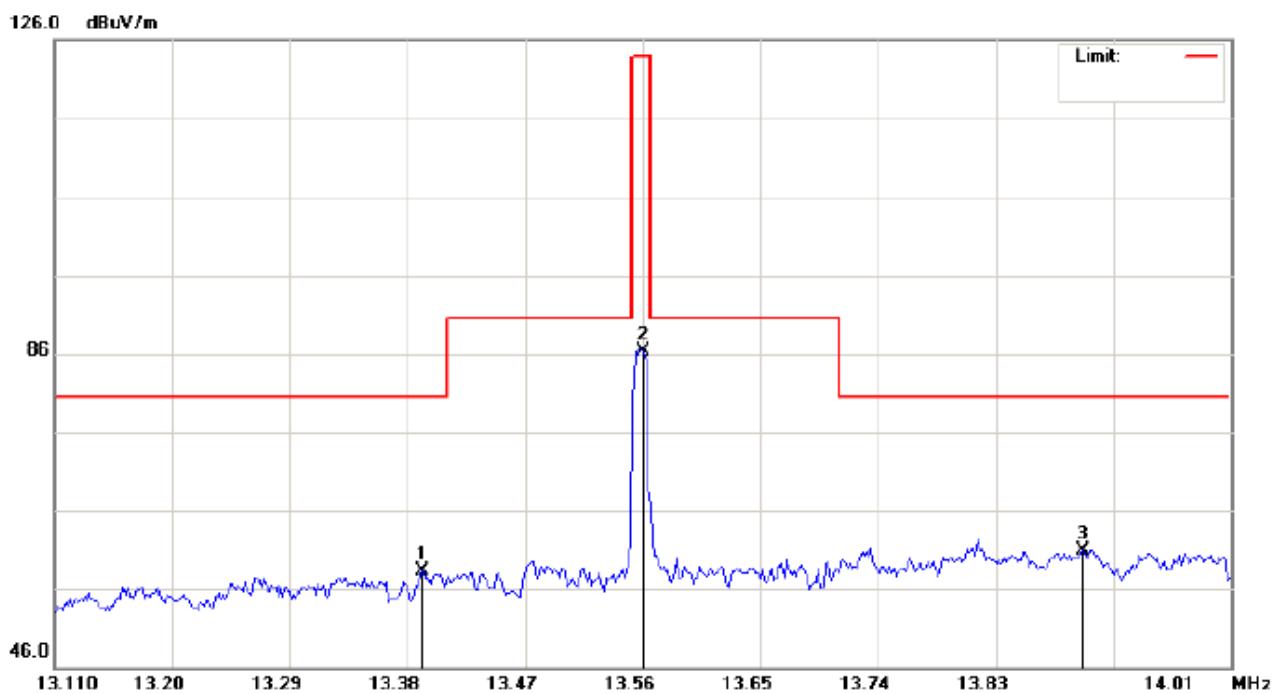
Temperature: 22.7

Humidity: 56.5 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB				
1		13.2435	53.84	0.00	53.84	80.50	-26.66	peak			
2		13.5600	83.46	0.00	83.46	124.00	-40.54	peak			
3	*	13.8195	59.84	0.00	59.84	80.50	-20.66	peak			

## RESULT: PASS

## RADIATED EMISSION TEST- (13.110MHZ-14.010MHZ) –VERTICAL



Site: site #1

Limit: part 225 13.11M-14.010M

EUT: Hisign Biometric Mobile Device

M/N: HX-I6150CT

Mode: Transmitting

Note:-

Polarization: **Vertical**

Power: AC 120V/60Hz

Temperature: 22.7

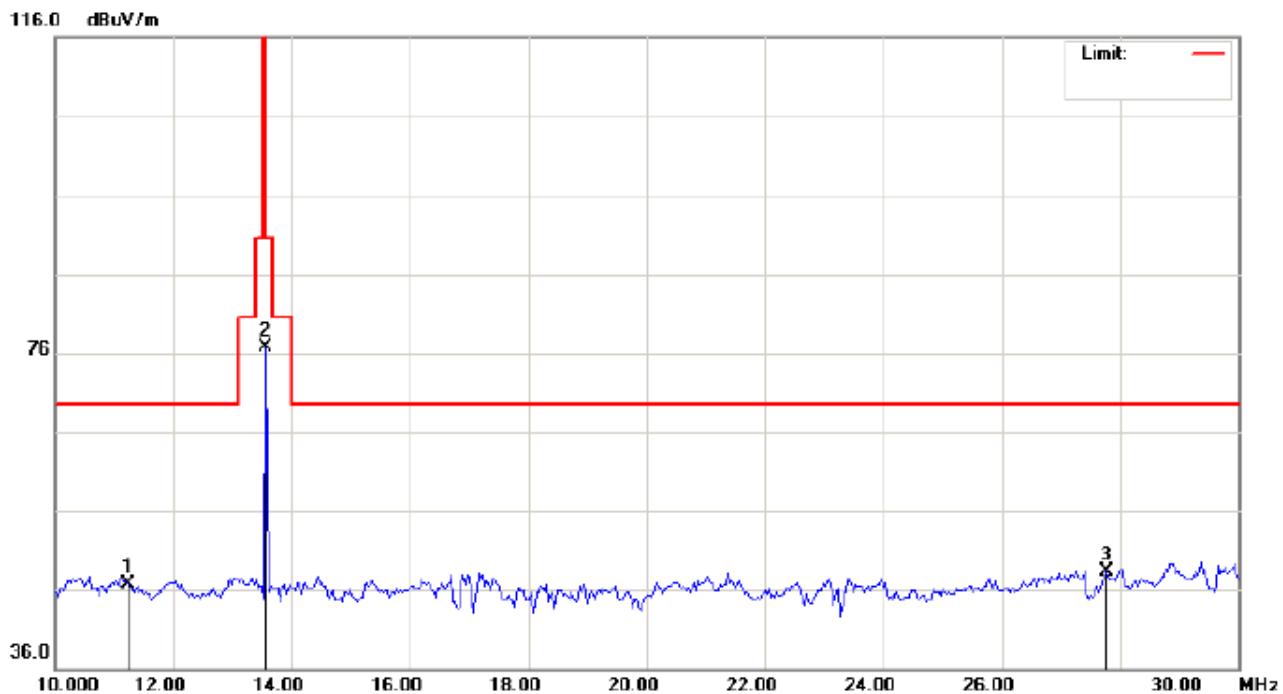
Humidity: 56.5 %

Distance:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		13.3918	58.23	0.00	58.23	80.50	-22.27	peak			
2		13.5600	86.25	0.00	86.25	124.00	-37.75	peak			
3	*	13.8960	60.97	0.00	60.97	80.50	-19.53	peak			

## RESULT: PASS

## RADIATED EMISSION TEST- (10MHZ-30MHZ) –HORIZONTAL

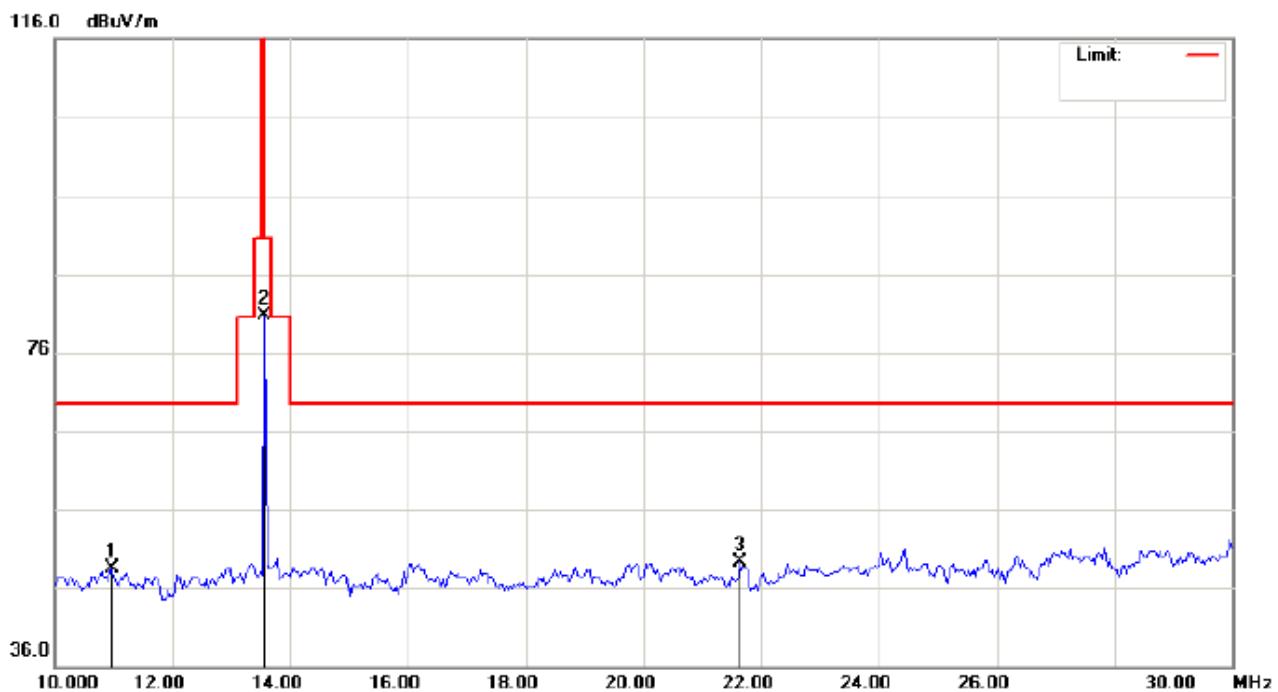


Site: site #1 Polarization: **Horizontal** Temperature: 22.7  
Limit: part 225 10M-30M Power: AC 120V/60Hz Humidity: 56.5 %  
EUT: Hisign Biometric Mobile Device Distance:  
M/N: HX-I6150CT  
Mode: Transmitting  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		11.2332	46.78	0.00	46.78	69.54	-22.76	peak			
2		13.5600	76.73	0.00	76.73	124.00	-47.27	peak			
3	*	27.7667	48.37	0.00	48.37	69.54	-21.17	peak			

## RESULT: PASS

## RADIATED EMISSION TEST- (10MHZ-30MHZ) –VERTICAL



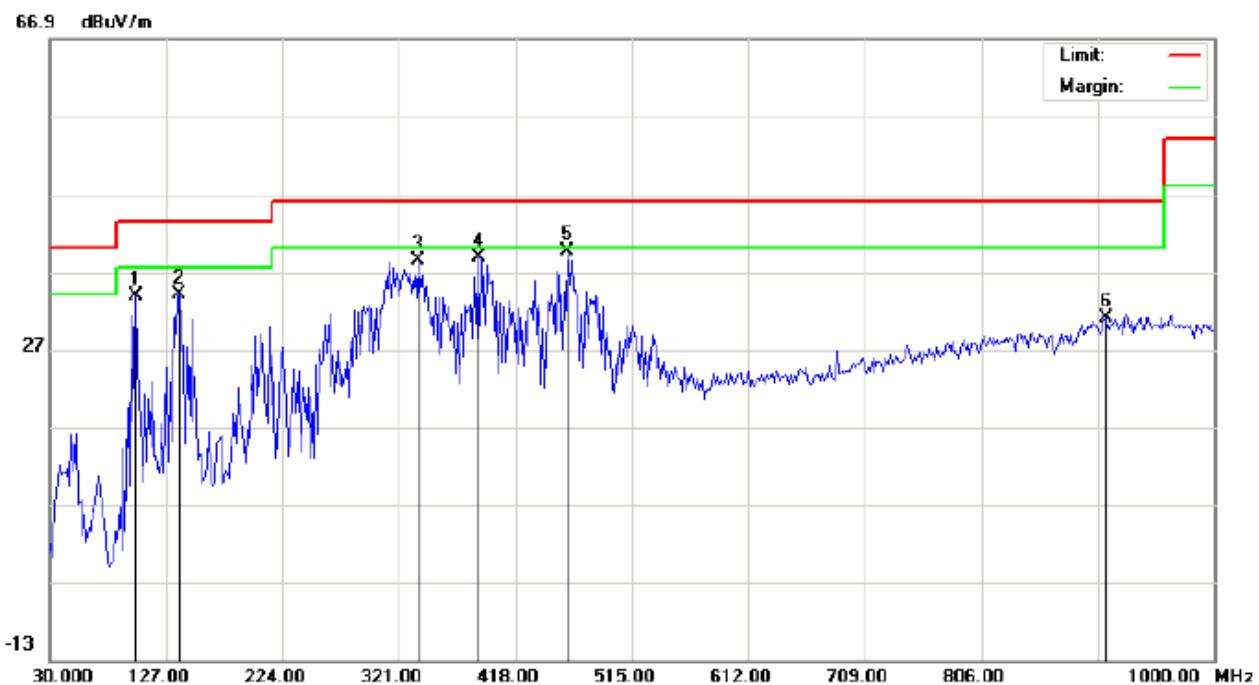
Site: site #1 Polarization: **Vertical** Temperature: 22.7  
Limit: part 225 10M-30M Power: AC 120V/60Hz Humidity: 56.5 %  
EUT: Hisign Biometric Mobile Device Distance:  
M/N: HX-I6150CT  
Mode: Transmitting  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		10.9666	48.54	0.00	48.54	69.54	-21.00	peak			
2		13.5600	80.63	0.00	80.63	124.00	-43.37	peak			
3	*	21.6332	49.30	0.00	49.30	69.54	-20.24	peak			

## RESULT: PASS

## RADIATED EMISSION BELOW 1GHZ

## RADIATED EMISSION TEST- (30MHZ-1GHZ) - HORIZONTAL

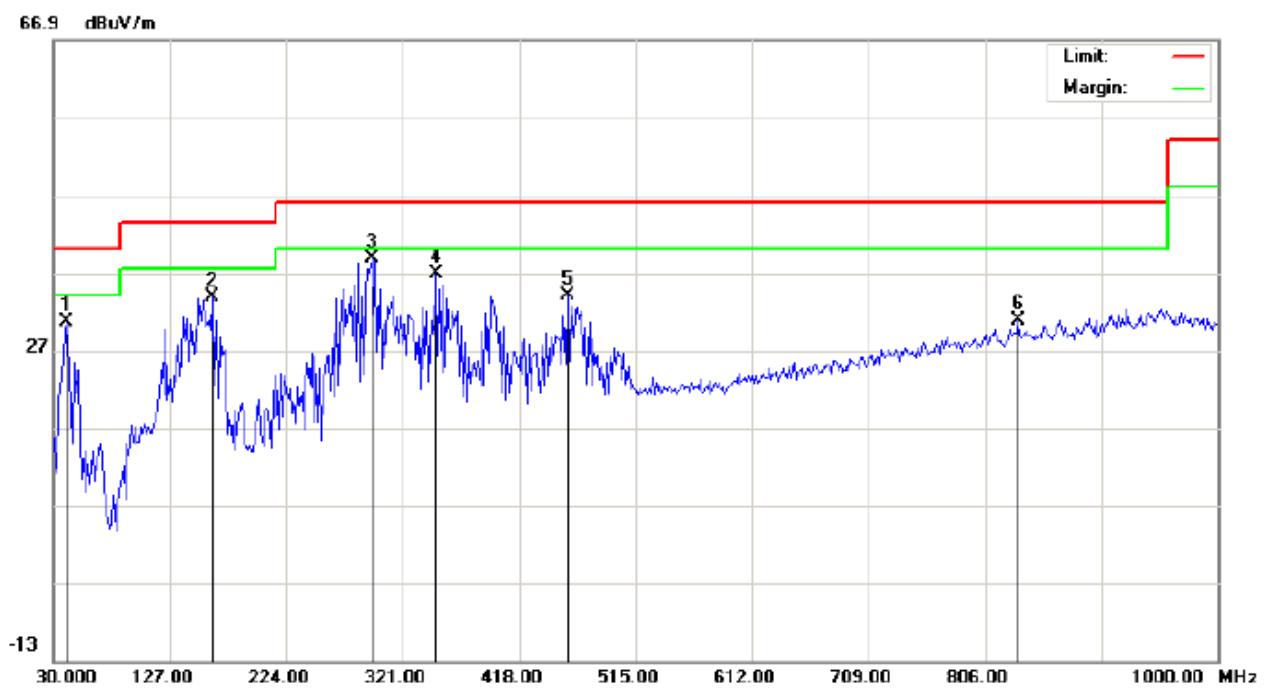


Site: site #1      Polarization: **Horizontal**      Temperature: 22.7  
 Limit: FCC Class B 3M Radiation      Power: AC 120V/60Hz      Humidity: 56.5 %  
 EUT: Hisign Biometric Mobile Device      Distance:  
 M/N: HX-I6150CT  
 Mode: Transmitting  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		101.1333	23.61	10.22	33.83	43.50	-9.67	peak			
2		138.3167	19.67	14.41	34.08	43.50	-9.42	peak			
3		337.1667	20.54	17.89	38.43	46.00	-7.57	peak			
4		387.2833	19.86	18.99	38.85	46.00	-7.15	peak			
5	*	461.6500	18.90	20.72	39.62	46.00	-6.38	peak			
6		909.4667	2.16	28.87	31.03	46.00	-14.97	peak			

RESULT: PASS

## RADIATED EMISSION TEST- (30MHZ-1GHZ) -VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 22.7  
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 56.5 %  
EUT: Hisign Biometric Mobile Device Distance:  
M/N: HX-I6150CT  
Mode: Transmitting  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		41.3167	21.86	8.81	30.67	40.00	-9.33	peak			
2		162.5667	18.69	15.17	33.86	43.50	-9.64	peak			
3	*	295.1333	23.56	15.26	38.82	46.00	-7.18	peak			
4		348.4833	18.11	18.64	36.75	46.00	-9.25	peak			
5		458.4167	13.34	20.68	34.02	46.00	-11.98	peak			
6		833.4833	3.53	27.31	30.84	46.00	-15.16	peak			

## RESULT: PASS

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

## 10. FCC LINE CONDUCTED EMISSION TEST

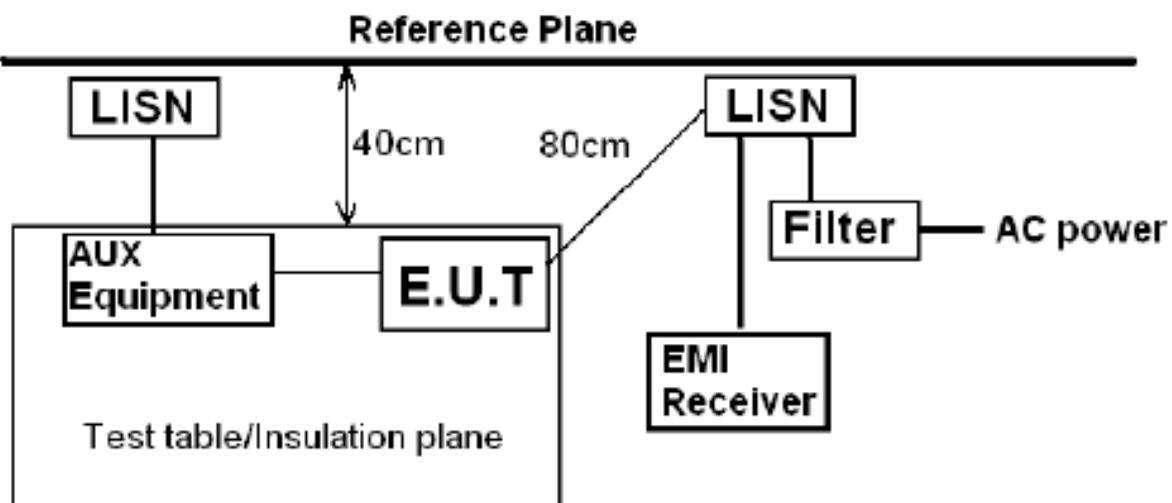
### 10.1 LIMITS

Frequency	Maximum RF Line Voltage	
	Q.P. (dBuV)	Average (dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

**\*\*Note:** 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

### 10.2 TEST SETUP



*Remark:*

E.U.T. Equipment Under Test

LISN Line Impedance Stabilization Network

Test table height=0.8m

### 10.3 PRELIMINARY PROCEDURE

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.10.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received power by adapter which received power by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring

points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

8) During the above scans, the emissions were maximized by cable manipulation.

9) The following test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

#### **10.4 FINAL TEST PROCEDURE**

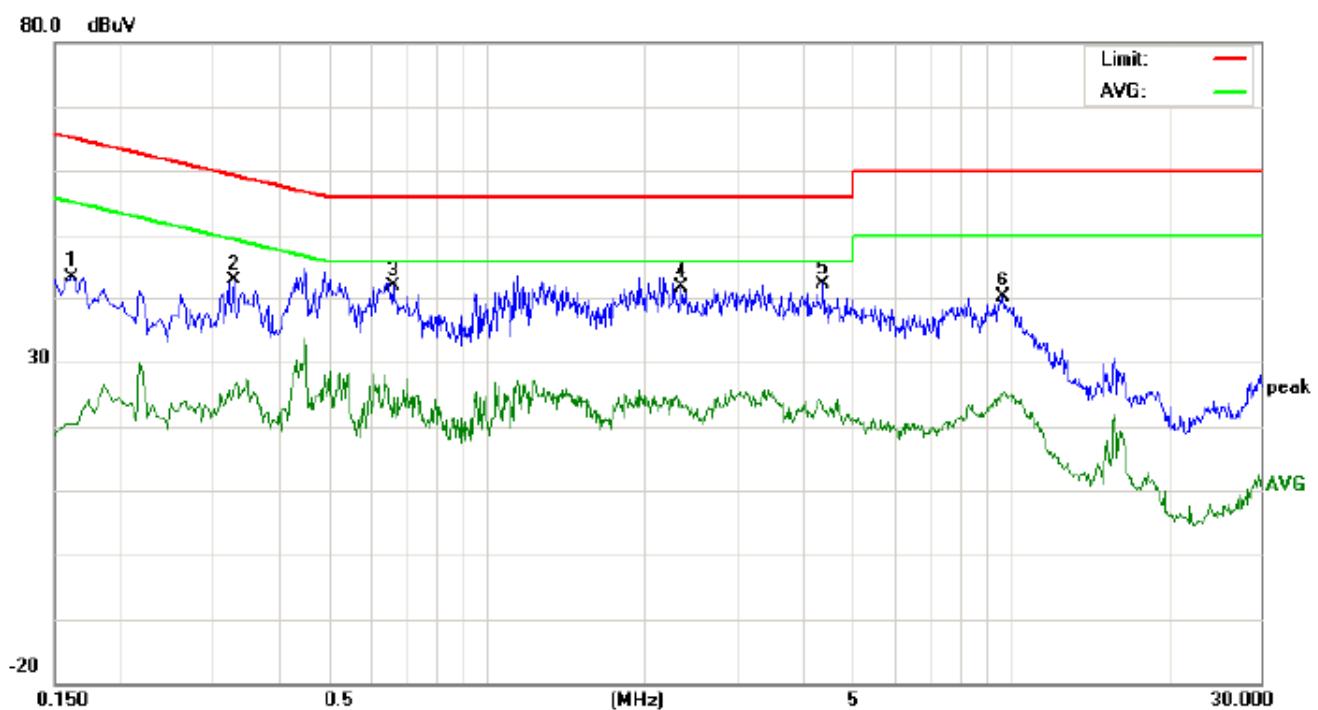
10) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.

11) 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

12) 3) The test data of the worst case condition(s) was reported on the Summary Data page.

#### **10.5 TEST RESULT OF POWER LINE**

Line Conducted Emission Test Line 1-L



Site: Conduction

Phase: *L1*

Temperature: 22.5

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 54.8 %

EUT: Hisign Biometric Mobile Device

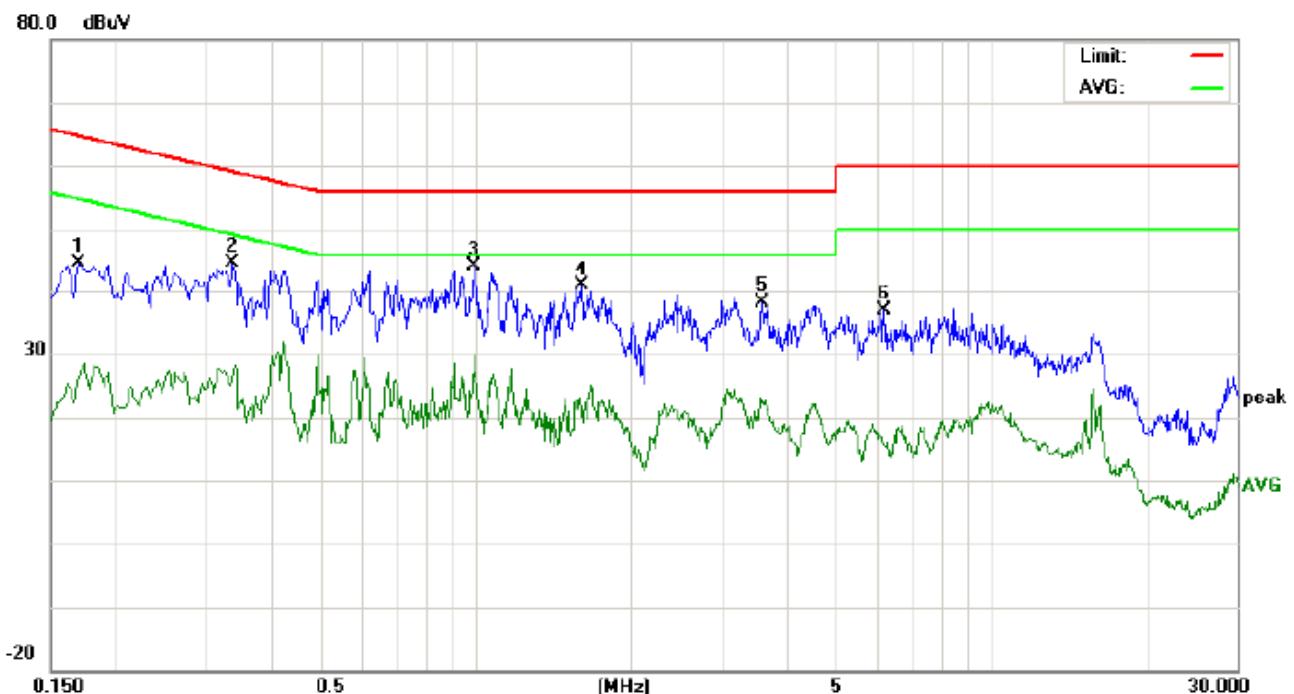
M/N: HX-I6150CT

Mode: Transmitting

Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	Avg		Peak	QP	Avg	QP	Avg	QP	Avg		
1	0.1620	33.28		10.13	10.17	43.45		20.30	65.36	55.36	-21.91	-35.06	P	
2	0.3300	32.66		16.28	10.30	42.96		26.58	59.45	49.45	-16.49	-22.87	P	
3	0.6620	31.43		14.00	10.33	41.76		24.33	56.00	46.00	-14.24	-21.67	P	
4	2.3580	31.14		13.50	10.37	41.51		23.87	56.00	46.00	-14.49	-22.13	P	
5	4.3899	31.94		12.54	10.26	42.20		22.80	56.00	46.00	-13.80	-23.20	P	
6	9.6979	29.90		14.71	10.27	40.17		24.98	60.00	50.00	-19.83	-25.02	P	

## Line Conducted Emission Test Line 1-N



Site: Conduction Phase: **N** Temperature: 22.5  
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 54.8 %  
 EUT: Hisign Biometric Mobile Device  
 M/N: HX-I6150CT  
 Mode: Transmitting  
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1700	34.45		16.49	10.18	44.63		26.67	64.96	54.96	-20.33	-28.29	P	
2	0.3379	34.21		16.07	10.31	44.52		26.38	59.25	49.25	-14.73	-22.87	P	
3	0.9900	33.64		19.48	10.37	44.01		29.85	56.00	46.00	-11.99	-16.15	P	
4	1.6060	30.44		10.88	10.35	40.79		21.23	56.00	46.00	-15.21	-24.77	P	
5	3.5900	27.67		11.81	10.50	38.17		22.31	56.00	46.00	-17.83	-23.69	P	
6	6.1979	26.52		5.42	10.29	36.81		15.71	60.00	50.00	-23.19	-34.29	P	

## 11. Occupied Bandwidth

### 11.1 LIMITS

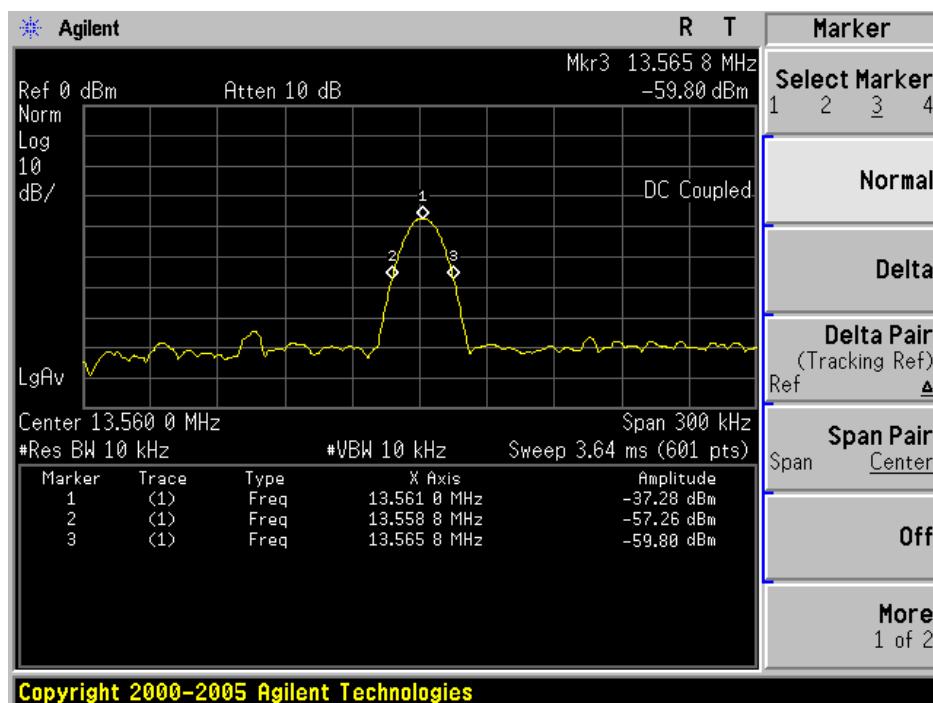
According to 15.215(c), Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 11.2 Test specification:

Environmental conditions: Temperature 23°C Humidity: 50% Atmospheric pressure: 960mbar

### 11.3 TEST RESULT

Frequency MHz	20dB Bandwidth (kHz)	Frequency range (MHz) $f_L > 13.553\text{MHz}$	Frequency range (MHz) $f_H < 13.567\text{MHz}$	Conclusion
13.56	7.0	13.5588	13.5658	PASS



## 12. Frequency Stability Measurement

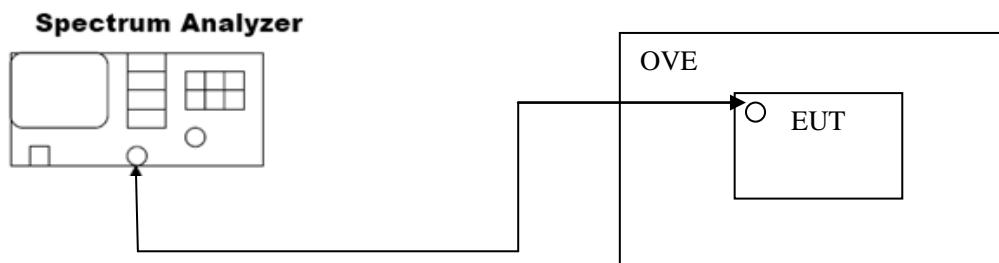
### 12.1 Limit

According to 15.225(e), The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 12.2 Test Method and test Procedure:

- 1) The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2) EUT have transmitted absence of modulation signal and fixed channelize.
- 3) Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
- 4) Set RBW = 1 kHz, VBW = 1 kHz with peak detector and max hold settings.
- 5) The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 6) Extreme temperature rule is -20°C~50°C.

### 12.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



### 12.4 Test specification:

Environmental conditions: Temperature 23°C

Humidity: 50%

Atmospheric pressure: 960mbar

## 12.5 TEST RESULT: PASS

Operating frequency: 13.56MHz

Voltage vs. Frequency Stability (Test Temperature: 20°C)

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
3.7	13.5606	0.0009	0.001356	PASS
3.4	13.5609			
4.2	13.5603			

Temperature vs. Frequency Stability (Test Voltage: 3.7V)

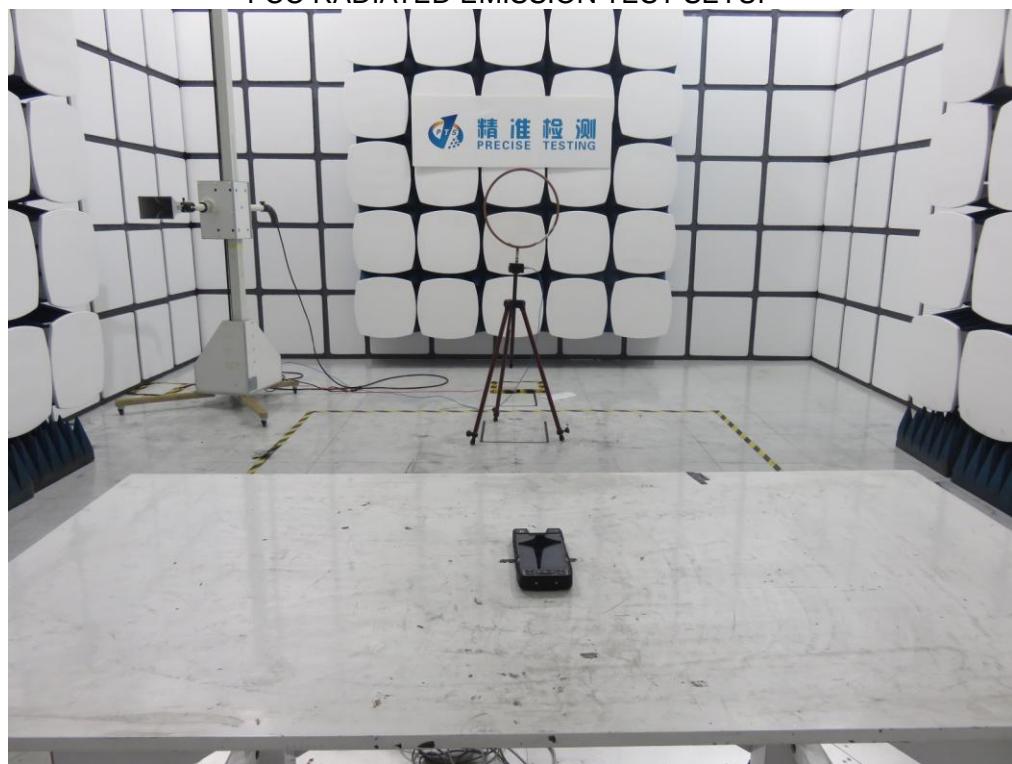
Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
- 20°C	13.56014	0.00016	0.001356	PASS
-10°C	13.56011			
0°C	13.56008			
10°C	13.56006			
20°C	13.56007			
30°C	13.56005			
40°C	13.56009			
50°C	13.56016			

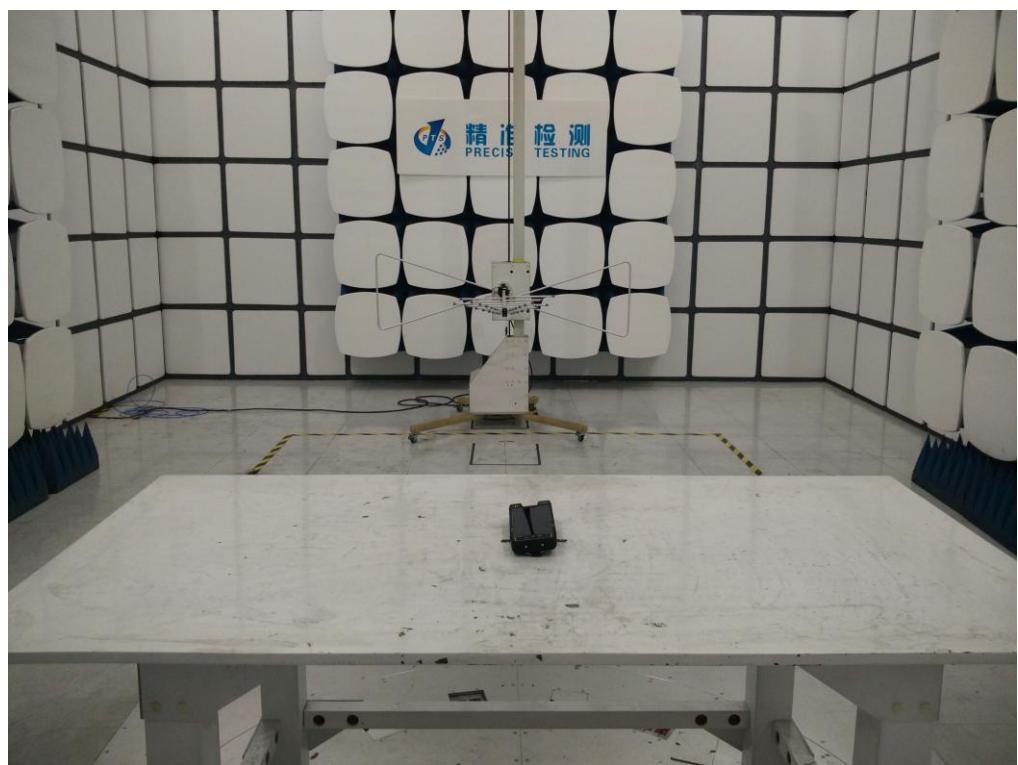
## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP





## APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



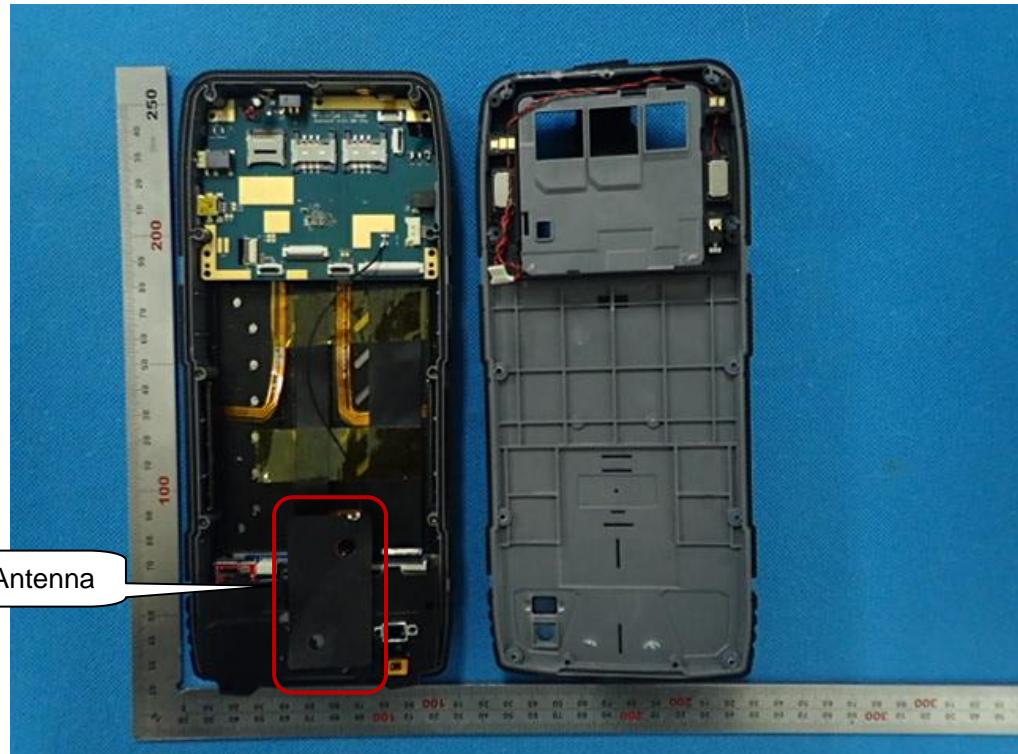
RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1

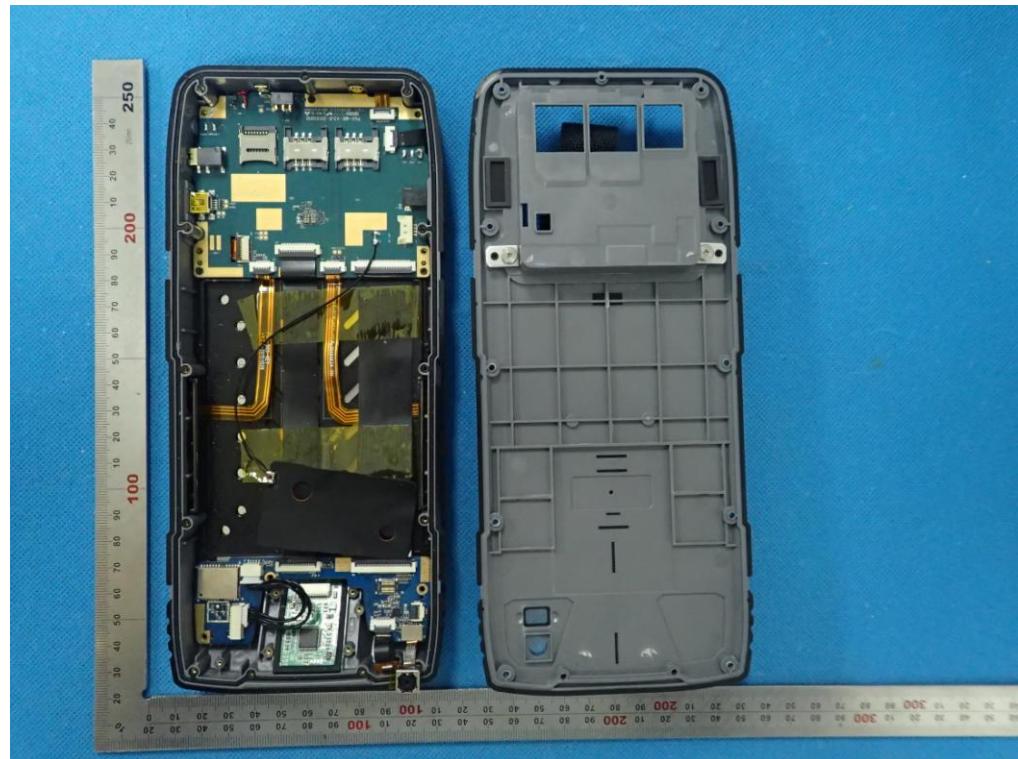


OPEN VIEW OF EUT-2



NFC Antenna

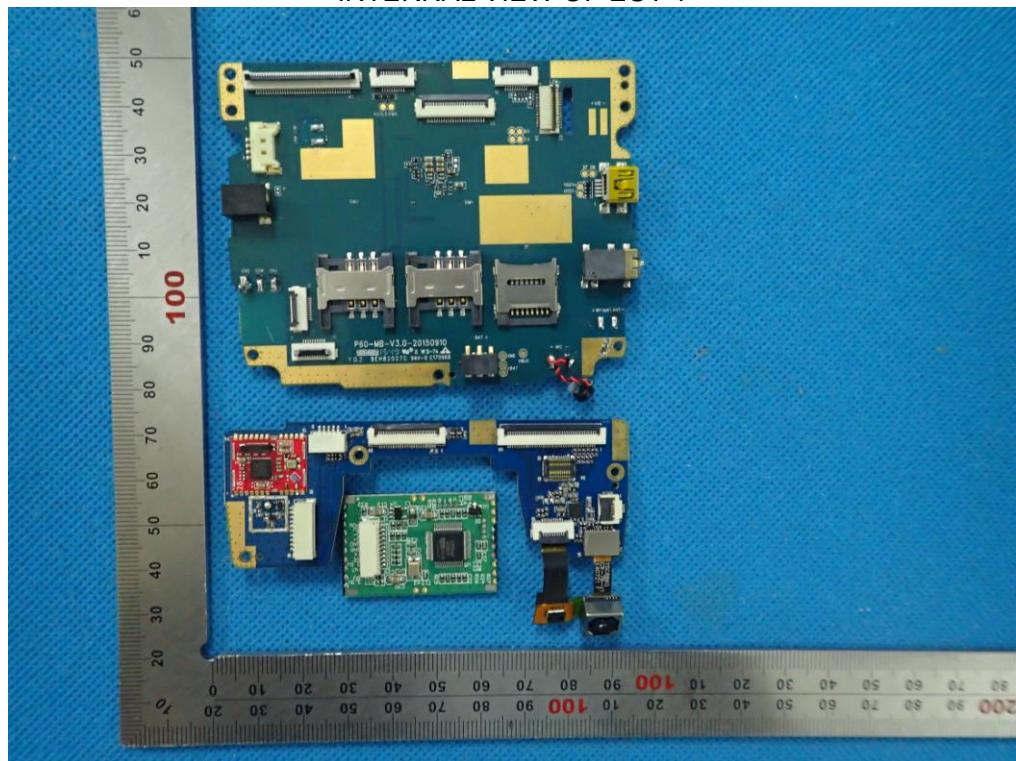
OPEN VIEW OF EUT-3



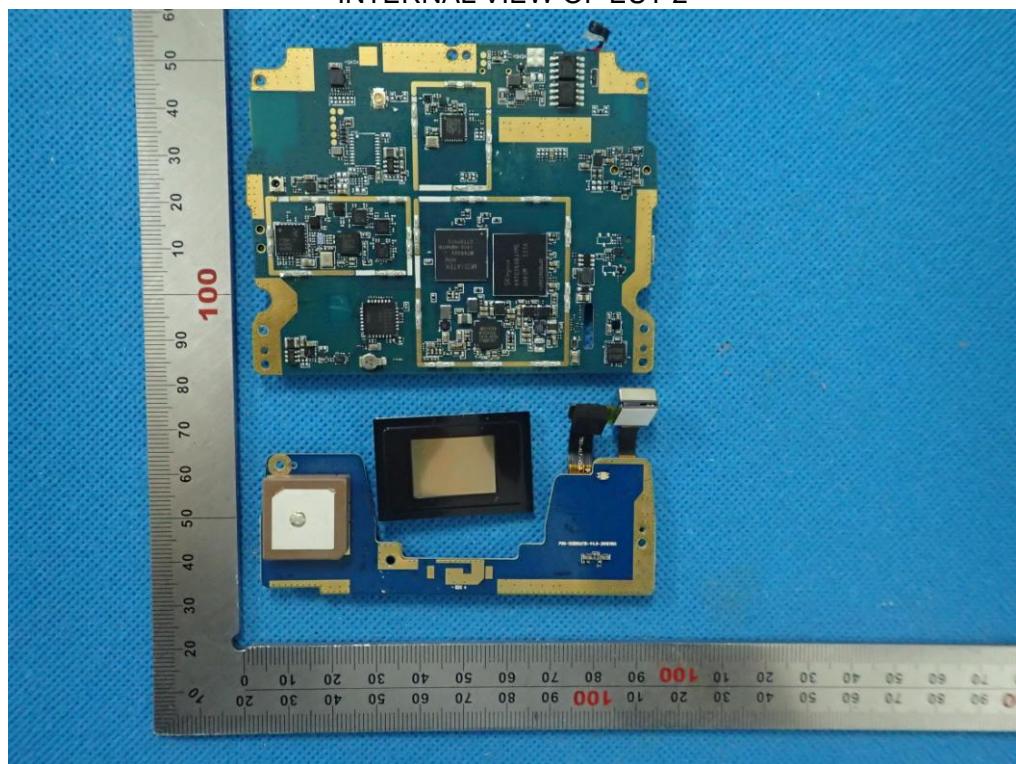
OPEN VIEW OF EUT-4



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



---END OF REPORT---