# RF TEST REPORT



Report No.: 15070786-FCC-R
Supersede Report No.: N/A

Applicant	CHENIZHEN HUDGAN INTELLIGENT COMPANY LIMITED		
Applicant	SHENZHEN HUBSAN INTELLIGENT COMPANY LIMITED		
Product Name	MINI QUADCOPTER CAM PLUS		
Model No.	H1000		
Serial No.	H107C+		
Test Standard	FCC Part 15.249: 2014; C63.10: 2013		
Test Date	September 17 to November 26, 2015		
Issue Date	November 27, 2015		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
Winnie. Z	Theny David Huang		
Winnie Zh Test Engir			

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Test result presented in this test report is applicable to the tested sample only

#### Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

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### **Laboratories Introduction**

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### **Accreditations for Conformity Assessment**

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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# 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070786-FCC-R	NONE	Original	November 27, 2015

# 2. Customer information

Applicant Name	SHENZHEN HUBSAN INTELLIGENT COMPANY LIMITED		
Amelia ant Add	13th Floor, Bldg 1C,Shenzhen Software Industry Base, Xuefu Road, Nanshan		
Applicant Add	District,Shenzhen,China,518054		
Manufacturer	DONGGUAN TENGSHENG INDUSTIAL CO., LTD		
Manufacturer Add	A22# Luyi Street, Tianxin Village, Tangxia Town, Dong guan, China		

# 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
Zone A, Floor 1, Building 2 Wan Ye Long Technology Park		
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong	
	China 518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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# 4. Equipment under Test (EUT) Information

Description of EUT:	MINI QUADCOPTER CAM PLUS
Main Model:	H1000
Serial Model:	H107C+
Date EUT received:	September 16,2015
Test Date(s):	September 17 to November 26, 2015
Antenna Gain:	1.6dBi
Input Power:	DC 6V
Trade Name :	HUBSAN
FCC ID:	2AEXY1000TX
Port:	N/A
Equipment Category :	DXX
Type of Modulation:	GFSK
RF Operating Frequency (ies):	2410-2465MHz
Channel Number:	12



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# 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	FCC Rules Description of Test		
§15.203	Antenna Requirement	Compliance	
§15.207(a)	AC Line Conducted Emissions	Compliance	
§15.205, §15.209,	Radiated Fundamental	Camalianas	
§15.249(a), §15.249(d)	/ Radiated Spurious Emissions	Compliance	
§15.249(a)	Field Strength Measurement	Compliance	
§15.249©	20 dB Bandwidth	Compliance	
§15.249(d)	Band Edge	Compliance	

#### **Measurement Uncertainty**

Emissions			
Test Item	Uncertainty		
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB	
-	-	-	



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### 6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

### 6.1 Antenna Requirement

#### Standard Requirement:

According to § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

#### **Antenna Connector Construction**

A permanently attached internal antenna, the gain is 1.6 dBi.

Test Result: Pass



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# 6.2 AC Line Conducted Emissions

Temperature	24°C
Relative Humidity	62%
Atmospheric Pressure	1012mbar
Test date :	
Tested By:	Winnie Zhang

Spec	Item	Requirement			Applicable	
§15.207	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencies shall not exceed the linusing a 50 [mu]H/50 or (LISN). The lower limit frequencies ranges.	<			
		Frequency ranges	Limit (	dBµV)		
		(MHz)	QP	Average		
		0.15 ~ 0.5	66 – 56	56 – 46		
		0.5 ~ 5	56	46		
		5 ~ 30	60	50		
Test Setup	Vertical Ground Reference Plane  EUT  Horizontal Ground Reference Plane  Note: 1.Support units were connected to second LISN.  2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm					
	from other units and other metal planes support units.  1. The EUT and supporting equipment were set up in accordance with the requirements					
		he standard on top of a				
Duanalium	2. The	connected to				
Procedure	filte					
	3. The	a low-loss				
	coa	coaxial cable.				



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	4.	All other suppo	rting equipment	were powered separately from another main supply.	
	5.	The EUT was s	The EUT was switched on and allowed to warm up to its normal operating condition.		
	6.	A scan was ma	ade on the NEUT	RAL line (for AC mains) or Earth line (for DC power)	
		over the require	ed frequency ran	ge using an EMI test receiver.	
	7.	High peaks, rel	ative to the limit	line, The EMI test receiver was then tuned to the	
		selected freque	encies and the ne	ecessary measurements made with a receiver	
		bandwidth setti	ng of 10 kHz.		
	8.	Step 7 was the	n repeated for th	e LIVE line (for AC mains) or DC line (for DC power).	
Remark					
Result		Pass	Fail	✓ <sub>N/A</sub>	
Test Data	Yes		✓ <sub>N/A</sub>		
Test Plot	Yes	(See below)	✓ <sub>N/A</sub>		



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# 6.3 Radiated Spurious Emissions

Temperature	24°C
Relative Humidity	51%
Atmospheric Pressure	1027mbar
Test date :	November 27, 2015
Tested By:	Winnie Zhang

#### Requirement(s):

Spec	Requirement	Applicable			
§15.209,	The emissions from the the field strength levels unwanted emissions shall be to the tighter limit applies. The field strength of enthese frequency bands				
§15.205, §15.249(a) & §15.249(d)	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	<b>V</b>	
	902- 928 MHz	50	500		
	2400- 2483.5 MHz	50	500		
	5725– 5875 MHz	50	500		
	24.0- 24.25 GHz	250	2500		
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver				
- Setup the configuration according to figure 1. Turn on EUT and it is in normal function				nd make sure that	
3 3 3 3 3 3 3	- For emission frequencies measured below 1GHz, a pre-scan is performed in a				



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	shielded chamber to determine the accurate frequencies of higher emissions
	will be checked on a open test site. As the same purpose, for emission
	frequencies measured above 1GHZ, a pre-scan also be performed with a
	meter measuring distance before final test.
	- For emission frequencies measured below and above 1GHz, set the spectrum
	analyzer on a 100kHz and 1MHz resolution bandwidth respectively for each
	frequency measured in step 2.
	- The search antenna is to be raised and lowered over a range from 1 to 4m in
	horizontally polarized orientation. Position the highness when the highest value
	is indicated on spectrum analyzer, the change the orientation of EUT on the
	test table over a range from 0 to 360°. With a speed as slow as possible, and
	keep the azimuth that highest emission is indicated on the spectrum analyzer.
	Vary the antenna position again and record the highest value as a final reading.
	- Repeat step 4 until all frequencies need to be measured was complete.
	- Repeat step5 with search antenna in vertical polarized orientations.
Remark	
Result	Pass Fail

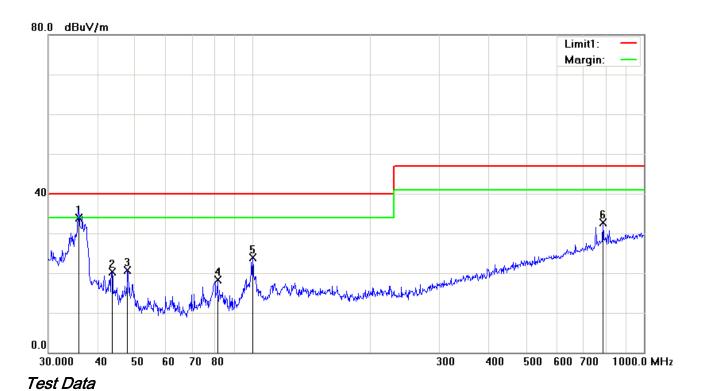
Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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Test Mode:	Transmitting Mode

### Below 1GHz

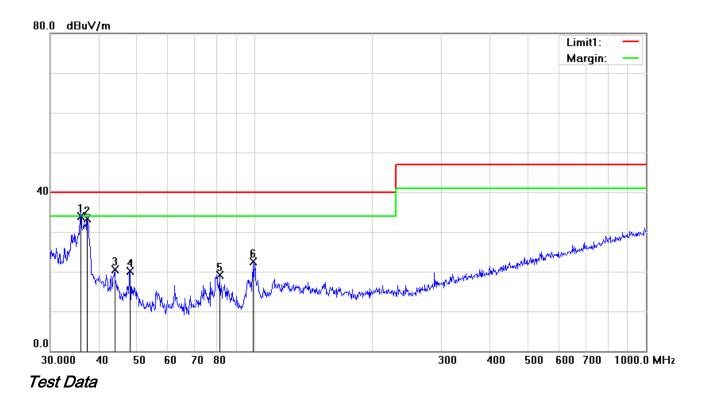


### Horizontal Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBµV/m)	Detector	Corrected (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Degree (°)
1	Ι	35.8747	38.47	QP	-4.58	33.89	40.00	-6.11	100	296
2	Н	43.6585	30.37	peak	-10.04	20.33	40.00	-19.67	100	359
3	Н	47.8260	33.00	peak	-12.20	20.80	40.00	-19.20	100	33
4	Н	81.2117	32.02	peak	-13.71	18.31	40.00	-21.69	100	359
5	Н	99.8777	34.77	peak	-10.83	23.94	40.00	-16.06	100	197
6	Н	785.0935	29.66	peak	2.97	32.63	47.00	-14.37	100	7



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### Vertical Polarity Plot @3m

No.	P/L	Frequency (MHz)	Reading (dBµV/m)	Detector	Corrected (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Degree (°)
1	>	35.8747	38.50	QP	-4.58	33.92	40.00	-6.08	100	137
2	٧	37.2855	38.88	peak	-5.61	33.27	40.00	-6.73	100	31
3	V	43.8119	30.71	peak	-10.15	20.56	40.00	-19.44	100	6
4	٧	47.9940	32.40	peak	-12.28	20.12	40.00	-19.88	100	338
5	V	81.2117	32.83	peak	-13.71	19.12	40.00	-20.88	100	13
6	<b>V</b>	99.1797	33.48	peak	-11.02	22.46	40.00	-17.54	100	338



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Test Mode:
------------

### Low Channel (2410 MHz)

Frequency (MHz)	SA Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4820	40.35	AV	V	33.74	1.14	31.72	43.51	54	-10.49
4820	40.11	AV	Н	33.74	1.14	31.72	43.27	54	-10.73
4820	49.37	PK	V	33.74	1.14	31.72	52.53	74	-21.47
4820	49.24	PK	Н	33.74	1.14	31.72	52.4	74	-21.60
1873.6	39.42	AV	V	31.27	0.71	30.06	41.34	54	-12.66
1873.6	39.27	AV	Н	31.27	0.71	30.06	41.19	54	-12.81
1873.6	49.16	PK	V	31.27	0.71	30.06	51.08	74	-22.92
1873.6	48.75	PK	Н	31.27	0.71	30.06	50.67	74	-23.33
3281.4	39.81	AV	V	32.33	0.95	30.73	42.36	54	-11.64
3281.4	39.75	AV	Н	32.33	0.95	30.73	42.3	54	-11.70
3281.4	49.53	PK	V	32.33	0.95	30.73	52.08	74	-21.92
3281.4	49.41	PK	Н	32.33	0.95	30.73	51.96	74	-22.04

### Mid Channel (2435 MHz)

Frequency (MHz)	SA Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4870	40.73	AV	V	33.75	1.16	31.72	43.92	54	-10.08
4870	40.59	AV	Н	33.75	1.16	31.72	43.78	54	-10.22
4870	50.15	PK	V	33.75	1.16	31.72	53.34	74	-20.66
4870	50.04	PK	Н	33.75	1.16	31.72	53.23	74	-20.77
1876.5	40.65	AV	V	31.27	0.71	30.06	42.57	54	-11.43
1876.5	40.38	AV	Н	31.27	0.71	30.06	42.3	54	-11.70
1876.5	50.44	PK	V	31.27	0.71	30.06	52.36	74	-21.64
1876.5	50.37	PK	Н	31.27	0.71	30.06	52.29	74	-21.71
3286.2	40.61	AV	V	32.33	0.95	30.73	43.16	54	-10.84
3286.2	40.48	AV	Н	32.33	0.95	30.73	43.03	54	-10.97
3286.2	50.35	PK	V	32.33	0.95	30.73	52.9	74	-21.10
3286.2	50.22	PK	Н	32.33	0.95	30.73	52.77	74	-21.23



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### High Channel (2465 MHz)

Frequency (MHz)	SA Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4930	40.81	AV	V	33.63	1.19	31.92	43.71	54	-10.29
4930	40.75	AV	Н	33.63	1.19	31.92	43.65	54	-10.35
4930	50.81	PK	V	33.63	1.19	31.92	53.71	74	-20.29
4930	50.73	PK	Н	33.63	1.19	31.92	53.63	74	-20.37
1875.3	39.55	AV	V	31.27	0.71	30.12	41.41	54	-12.59
1875.3	39.42	AV	Н	31.27	0.71	30.12	41.28	54	-12.72
1875.3	50.76	PK	V	31.27	0.71	30.16	52.58	74	-21.42
1875.3	50.61	PK	Н	31.27	0.71	30.16	52.43	74	-21.57
3283.7	39.82	AV	V	32.33	0.95	30.73	42.37	54	-11.63
3283.7	39.68	AV	Н	32.33	0.95	30.73	42.23	54	-11.77
3283.7	50.85	PK	V	32.33	0.95	30.73	53.4	74	-20.60
3283.7	50.69	PK	Н	32.33	0.95	30.73	53.24	74	-20.76



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### 6.4 Field Strength Measurement

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	November 25, 2015
Tested By:	Winnie Zhang

#### Requirement(s):

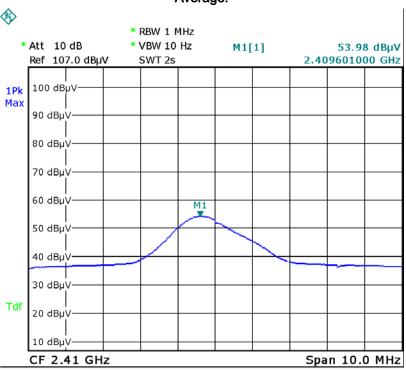
Spec	Requirement			Applicable
§15.249(a)	Fundamental frequency	Field strength of fundamental (millivolts/ meter)	Field strength of harmonics (microvolts/ meter)	
	902–928 MHz 2400–2483.5 MHz 5725–5875 MHz 24.0–24.25 GHz	50 50 50 250	500 500 500 2500	
Test Setup	Ant. Tower  Support Units  Turn Table  Ground Plane  Test Receiver			
Test	Emissions radiated outside of the harmonics, shall be attenuated by	•	•	·
Procedure	fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.			
Remark				
Result	Pass			
Test Data	Yes N/A			



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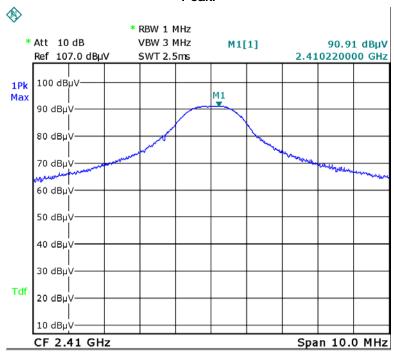
#### Low Frequency

#### Average:



Date: 25.NOV.2015 14:21:34

#### Peak:



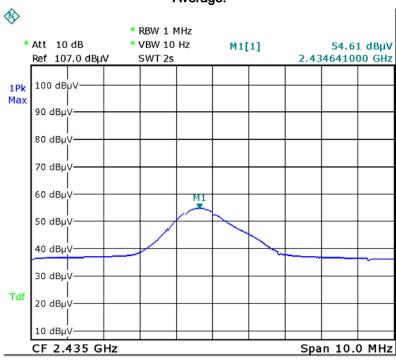
Date: 25.NOV.2015 14:20:07



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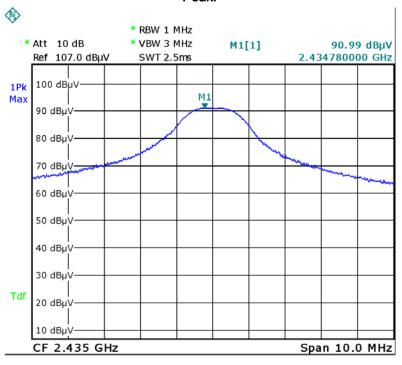
#### Mid Frequency

#### Average:



Date: 25.NOV.2015 14:30:55

#### Peak:



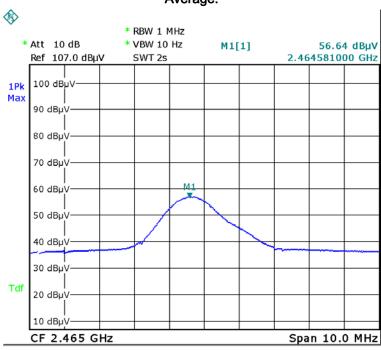
Date: 25.NOV.2015 14:29:45



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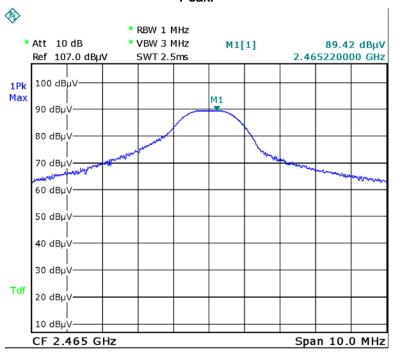
#### **High Frequency**

#### Average:



Date: 25.NOV.2015 13:57:35

#### Peak:



Date: 25.Nov.2015 13:55:59



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# 6.5 20dB Bandwidth Testing

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	November 16, 2015
Tested By :	Winnie Zhang

#### Requirement(s):

Spec	Item	Requirement	Applicable	
§15.215(c)	a)	Radiated Emissions Measurement Uncertainty	V	
		All test measurements carried out are traceable to		
		national standards. The uncertainty of the		
		measurement at a confidence level of approximately		
		95% (in the case where distributions are normal), with		
		a coverage factor of 2, in the range 30MHz – 1GHz		
		( 3m & 10m ) & 1GHz above ( 3m ) is +5.6/-4.5dB.		
Test Setup		Spectrum Analyzer EUT		
Test Procedure	-	<ul> <li>- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.</li> <li>- Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.</li> <li>- Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.</li> </ul>		
	-	Repeat above procedures until all frequencies measured complete.	were	
Remark		• •		



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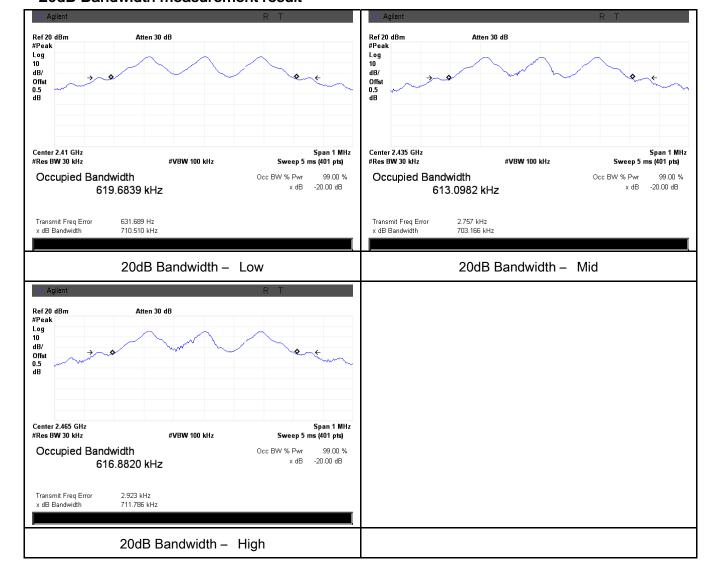
Result	Pass	Fail
Test Data	Yes	N/A
Test Plot	Yes (See below)	□ <sub>N/A</sub>

#### 20dB Bandwidth measurement result

Fundamental Frequency	20dB Bandwidth	Popult	
(MHz)	( KHz )	Result	
2410	710.510	Pass	
2435	703.166	Pass	
2465	711.786	Pass	

#### **Test Plots**

#### 20dB Bandwidth measurement result

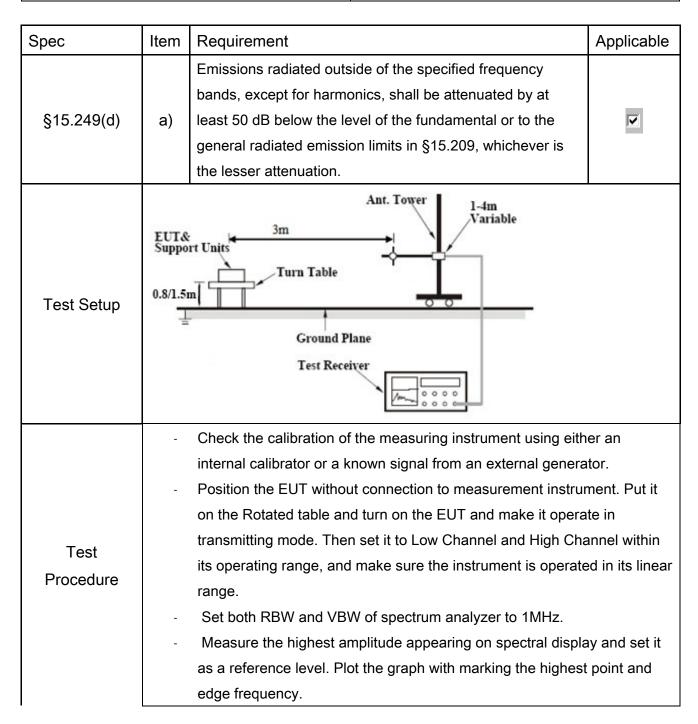




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### 6.6 Band Edge

Temperature	24°C
Relative Humidity	52%
Atmospheric Pressure	1019mbar
Test date :	November 19, 2015
Tested By :	Winnie Zhang





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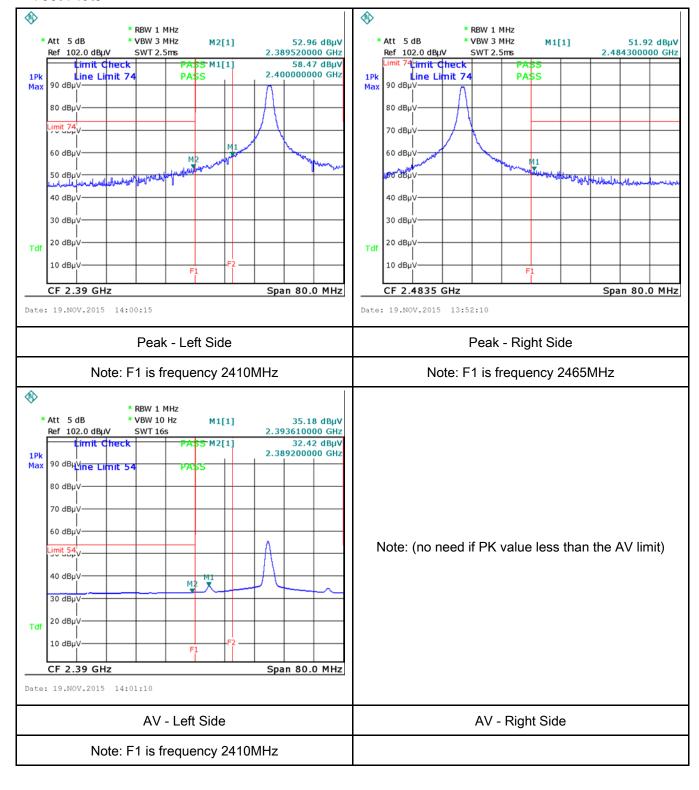
	- Repea	t above procedures until all measured frequencies were complete.
Remark		
Result	Pass	Fail

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



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#### **Test Plots**





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# Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	•
Line Impedance	LI-125A	191106	09/25/2015	09/24/2016	~
Line Impedance	LI-125A	191107	09/25/2015	09/24/2016	~
LISN	ISN T800	34373	09/25/2015	09/24/2016	~
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	•
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	•
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/17/2015	09/16/2016	~
Power Splitter	1#	1#	09/01/2015	08/31/2016	•
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	•
Positioning Controller	UC3000	MF780208282	11/19/2015	11/18/2016	•
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	Z.
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	<u> </u>
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/23/2016	V



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### Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo





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**EUT- Bottom View** 

**EUT- Left View** 



**EUT- Right View** 



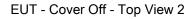
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### Annex B.ii. Photograph: EUT Internal Photo

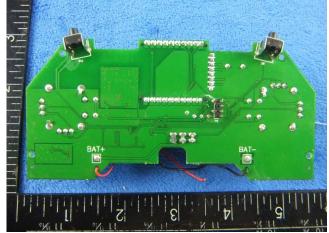




EUT - Cover Off - Top View 1

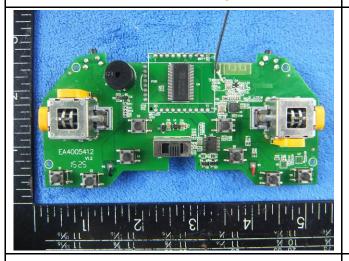




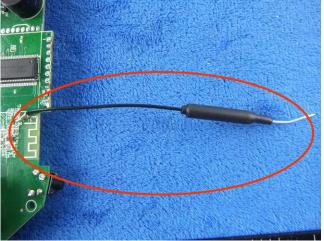


EUT - Mainborad With Shielding - Front View

EUT - Mainborad With Shielding - Rear View



EUT - Mainborad Without Shielding - Front View

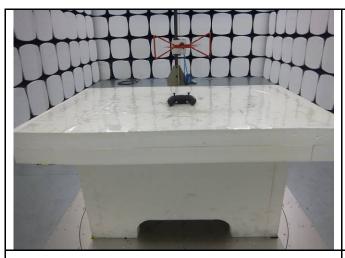


EUT - 2.4G - Antenna View



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# Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz



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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

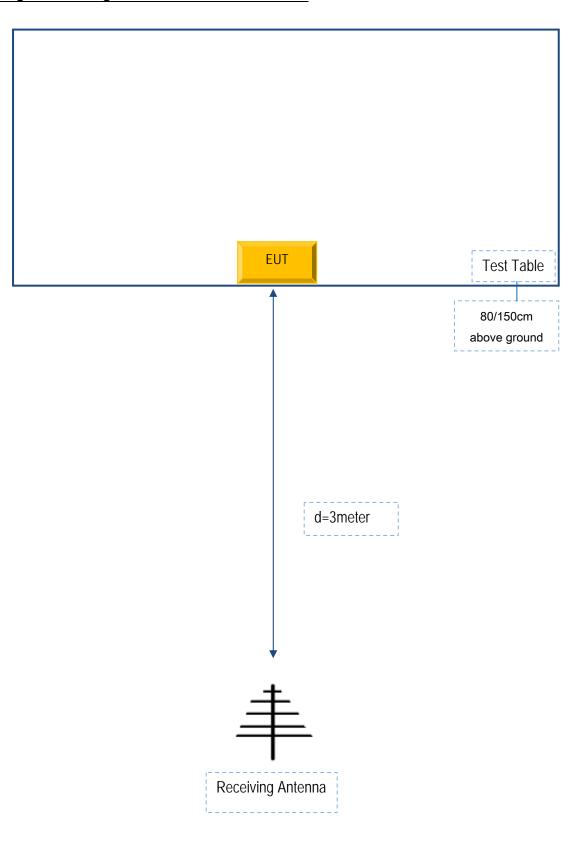
Block Configuration Diagram for Radiated Emissions

N/A



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### **Block Configuration Diagram for Radiated Emissions**





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### Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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# Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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#### Annex E. DECLARATION OF SIMILARITY

#### SHENZHEN HUBSAN INTELLIGENT COMPANY LIMITED

To: SIEMIC ,775 Montague Expressway, Milpitas, CA 95035,USA

### **Declaration Letter**

Dear Sir,

For our business issue and marketing requirement, we would like to list 2 model numbers on the FCC certificates and reports, as following:

Model No.: H1000 ,H107C+

We declare that, all the model PCB ,Antenna and Appearanceshape , accessories are

the same . The difference of these is listed as below:

Main Model No	Serial Model No	Difference
H1000	H107C+	Different model name

Thank you!

By:
Print Name: Sam LEE
Title: CEO

Printed name/title: Sam LEE/CEO

Address: 13th Floor, Bldg 1C, Shenzhen Software Industry Base, Xuefu Road, Nanshan

District, Shenzhen, China, 518054