RF TEST REPORT



Report No.: 17070736-FCC-R Supersede Report No.: N/A

Applicant	Shenzhen H	Huafurui Technology Co.	Ltd	
Product Name	SmartWatch			
Model No.	F1			
Serial No.	CUBOT F1			
Test Standard	FCC Part 1	5.247: 2016, ANSI C63.1	10: 2013	
Test Date	August 18	to August 31, 2017		
Issue Date	September 01, 2017			
Test Result	Pass	Fail		
Equipment compl	Equipment complied with the specification			
Equipment did no	t comply with	the specification		
Loven	LOVEN LUO David Huang			
Loren Lu Test Engir		David Huang Checked By		

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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
17070736-FCC-R	NONE	Original	September 01, 2017

2. Customer information

Applicant Name	Shenzhen Huafurui Technology Co. Ltd	
Applicant Add	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district	
	Shenzhen, China	
Manufacturer	Shenzhen Huafurui Technology Co. Ltd	
Manufacturer Add	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district	
	Shenzhen, China	

3. Test site information

Test Lab A:

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.	535293	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	

Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and
	Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC(ver.lcp-03A1)



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Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B



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4. Equipment under Test (EUT) Information

Description of EUT:	SmartWatch

Main Model: F1

Serial Model: CUBOT F1

Date EUT received: August 17, 2017

Test Date(s): August 18 to August 31, 2017

Equipment Category: DTS

Antenna Gain: 0 dBi

Antenna Type: Patch antenna

Type of Modulation: BLE: GFSK

RF Operating Frequency (ies): BLE: 2402-2480 MHz

Max. Output Power: -4.238dBm

Number of Channels: BLE: 40CH

Port: charging port and data port

Trade Name : CUBOT

Battery:

Input Power: Spec: 3.7V, 0.925Wh

FCC ID: 2AHZ5CUBOTF1



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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	Description of Test	Result	
§15.203	Antenna Requirement	Compliance	
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance	
§15.247(b)(3)	Conducted Maximum Output Power	Compliance	
§15.247(e)	Power Spectral Density	Compliance	
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted	Compliance	
§15.207 (a),	Frequency Bands O7 (a). AC Power Line Conducted Emissions		
§15.205, §15.209,	Radiated Emissions & Unwanted Emissions	N/A	
§15.247(d)	into Restricted Frequency Bands	Compliance	

Measurement Uncertainty

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



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

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.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antenna:

A permanently attached Patch antenna for BLE, the gain is 0 dBi for BLE.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	27 °C
Relative Humidity	55%
Atmospheric Pressure	1023mbar
Test date :	August 22, 2017
Tested By :	Loren Luo

Spec	Item Requirement Applicable				
§ 15.247(a)(2)	a)	a) 6dB BW≥ 500kHz;			
RSS Gen(4.6.1)	b)	b) 99% BW: For FCC reference only; required by IC.			
Test Setup	Spectrum Analyzer EUT				
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth 6dB Emission bandwidth measurement procedure - Set RBW = 100 kHz. - Set the video bandwidth (VBW) ≥ 3 RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.				
Remark					
Result	Pas	ss Fail			

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



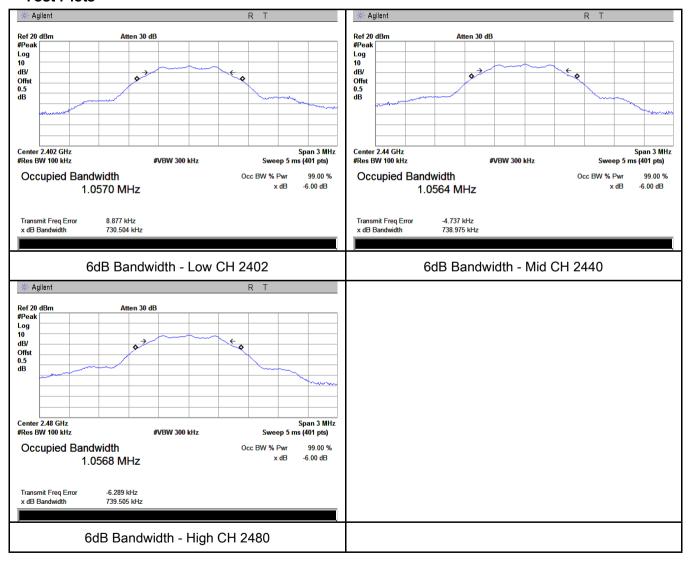
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6dB Bandwidth measurement result

Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	730.504	1.0570
Mid	2440	738.975	1.0564
High	2480	739.505	1.0568

Test Plots





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6.3 Maximum Output Power

Temperature	27 °C		
Relative Humidity	55%		
Atmospheric Pressure	1023mbar		
Test date :	August 22, 2017		
Tested By :	Loren Luo		

Requirement(s):

Spec	Item	Applicable						
	a)							
	b)							
§15.247(b)	c)	c) For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.						
(3),RSS210 (A8.4)	d)	d) FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt						
(, (3. 1)	e)	e) FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt						
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	V					
Test Setup	Spectrum Analyzer EUT							
	558074 D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power method							
	Maximum output power measurement procedure							
	a) Set the RBW ≥ DTS bandwidth.							
Test	'	BW ≥ 3 × RBW.						
		pan ≥ 3 x RBW						
Procedure	· ·	p time = auto couple. ctor = peak.						
	· ·	mode = max hold.						
	g) Allow trace to fully stabilize.							
	h) Use peak marker function to determine the peak amplitude level.							
Remark								
Result	Pas	s Fail						



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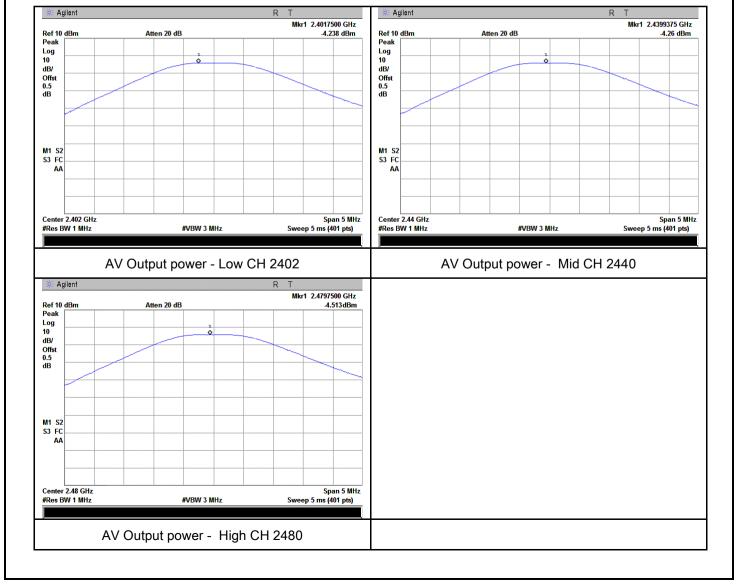
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Output Power measurement result

Test Data

Туре	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-4.238	30	Pass
Output	Mid	2440	-4.260	30	Pass
power	High	2480	-4.513	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	25 °C		
Relative Humidity	55%		
Atmospheric Pressure	1017mbar		
Test date :	August 23, 2017		
Tested By :	Loren Luo		

Spec	Item	Requirement	Applicable			
§15.247(e)	a)	a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.				
Test Setup		Spectrum Analyzer EUT				
Test Procedure		D01 DTS MEAS Guidance v03r03, 10.2 power spectral density met pectral density measurement procedure a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. d) Set the VBW ≥ 3 × RBW. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz	de level within			
Remark						
Result	Pas	ss Fail				

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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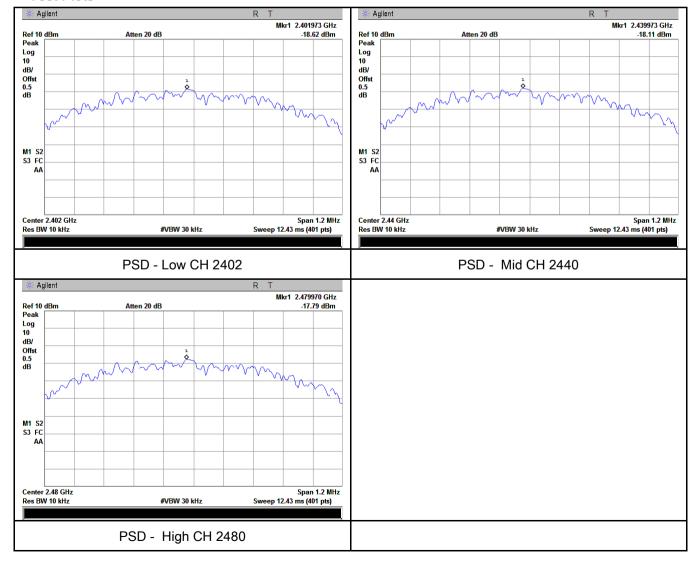
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
PSD	Low	2402	-18.62	-5.23	-23.85	8	Pass
	Mid	2440	-18.11	-5.23	-23.34	8	Pass
	High	2480	-17.79	-5.23	-23.02	8	Pass

Note: factor=10log(3/10)=-5.23

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	23 °C	
Relative Humidity	54%	
Atmospheric Pressure	1020mbar	
Test date :	August 28, 2017	
Tested By :	Loren Luo	

Requirement(s):

Spec	Item	Item Requirement Applicable		
§15.247(d)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.		N. C.	
Test Setup	Ant. Tower Support Units Turn Table Ground Plane Test Receiver			
Test Procedure	Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.			



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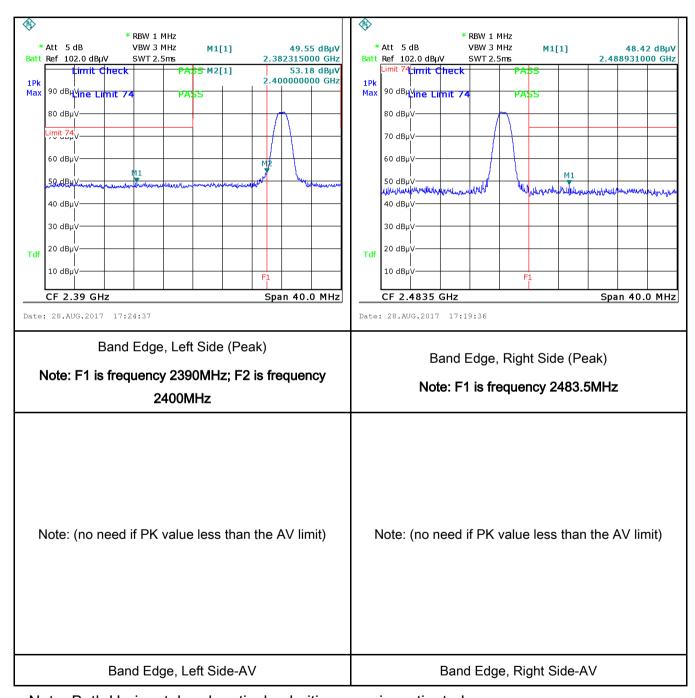
	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
	convenient frequency span including 100kHz bandwidth from band edge, check
	the emission of EUT, if pass then set Spectrum Analyzer as below:
	a. The resolution bandwidth and video bandwidth of test receiver/spectrum
	analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
	b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
	bandwidth is 3MHz with Peak detection for Peak measurement at frequency above
	1GHz.
	c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the
	video bandwidth is 10Hz with Peak detection for Average Measurement as below
	at frequency above 1GHz.
	- 4. Measure the highest amplitude appearing on spectral display and set it as a
	reference level. Plot the graph with marking the highest point and edge frequency.
	- 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	Pass Fail
Test Data	res N/A

Test Data	Yes	✓ N/A
Test Plot	Yes (See below)	□ _{N/A}



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Test Plots Band Edge measurement result



Note: Both Horizontal and vertical polarities were investigated.



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6.6 AC Power Line Conducted Emissions

Temperature	
Relative Humidity	
Atmospheric Pressure	
Test date :	
Tested By :	

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210 (A8.1)	a)	For Low-power radio-freconnected to the public voltage that is conducted frequency or frequencies not exceed the limits in [mu] H/50 ohms line im lower limit applies at the Frequency ranges (MHz) 0.15 ~ 0.5 0.5 ~ 5	e utility (AC) power line, and back onto the AC power, within the band 150 the following table, as a pedance stabilization rule boundary between the Limit (QP) 66 – 56	the radio frequency ower line on any kHz to 30 MHz, shall measured using a 50 network (LISN). The se frequencies ranges. dBµV) Average 56 - 46 46	
	5 ~ 30 60 50				
Test Setup	est Setup Som Fest Receiver				
	The EUT and supporting equipment were set up in accordance with the requirements of				
Procedure	 the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 				



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-			
	coaxial cable.		
	All other supporting equipment were powered separately from another main supply.		
	5. The EUT was switched on and allowed to warm up to its normal operating condition.		
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)		
	over the required frequency range using an EMI test receiver.		
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the		
	selected frequencies and the necessary measurements made with a receiver bandwidth		
	setting of 10 kHz.		
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).		
Remark			
Result	Pass Fail N/A		
Test Data	Yes N/A		
Test Plot	Yes (See below)		



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6.7 Radiated Emissions & Restricted Band

Temperature	23 °C
Relative Humidity	54%
Atmospheric Pressure	1020mbar
Test date :	August 28, 2017
Tested By :	Loren Luo

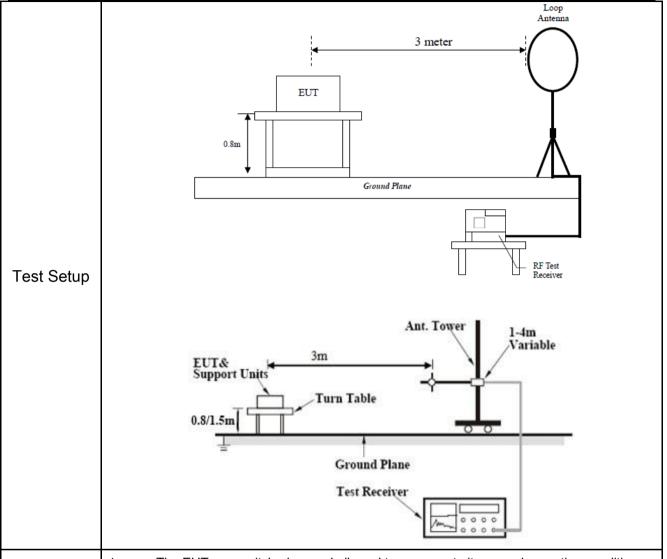
Requirement(s):

Spec	Item	Requirement	Applicable	
		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges		
	,	Frequency range (MHz)	Field Strength (μV/m)	
	(a)	0.009~0.490	2400/F(KHz)	
		0.490~1.705	24000/F(KHz)	
		1.705~30.0	30	
		30 - 88	100	
47CFR§15.		88 – 216	150	
247(d),		216 960	200	
RSS210		Above 960	500	
(A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the inter 20 dB or 30dB below that in the 10 band that contains the highest level determined by the measurement mused. Attenuation below the general is not required 20 dB down 30	d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the desired power, sethod on output power to be	>
	c)	or restricted band, emission must a emission limits specified in 15.209		~



Procedure

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- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
 - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.



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	The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video							
	bandwidth is 10Hz with Peak detection for Average Measurement as below at							
	frequency above 1GHz.							
	5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency							
points were measured.								
Remark	Different RF configuration has been evaluated but not much difference was found. The data							
Remark	presented here is the worst case data with EUT under 802.11n - HT20-2437MHz mode.							
Result	Pass Fail							
Test Data	Yes N/A							
Test Plot	Yes (See below) N/A							

Test Result:

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

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Reading	Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dB/m) (dBuV/m)		(dBuV/m) (dBuV/m)	
						>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

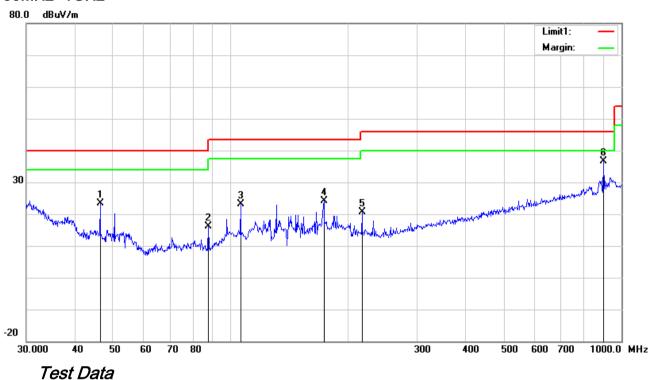
Limit line = specific limits(dBuv) + distance extrapolation factor.



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Test Mode: Transmitting Mode

30MHz -1GHz



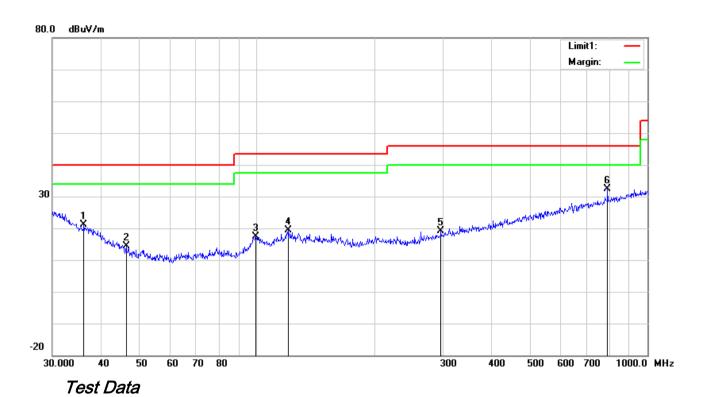
Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
	.,_			or								ее
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	V	46.3402	35.02	peak	10.01	22.31	0.76	23.48	40.00	-16.52	100	332
2	V	87.7248	29.59	peak	7.91	22.34	1.00	16.16	40.00	-23.84	100	81
3	٧	106.0126	32.75	peak	11.45	22.33	1.15	23.02	43.50	-20.48	100	207
4	٧	173.2051	33.44	peak	11.54	22.26	1.36	24.08	43.50	-19.42	200	76
5	٧	216.7828	29.57	peak	11.87	22.35	1.59	20.68	46.00	-25.32	100	147
6	٧	900.1474	32.05	peak	22.50	20.88	3.07	36.74	46.00	-9.26	100	127



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30MHz -1GHz



Horizontal Polarity Plot @3m

N	P/	Frequency	Reading	Detect	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr
О.	L			or								ее
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	Н	36.1272	25.80	peak	16.73	22.26	0.77	21.04	40.00	-18.96	100	47
2	Н	46.3402	25.81	peak	10.01	22.31	0.76	14.27	40.00	-25.73	100	132
3	Н	99.5281	28.23	peak	10.29	22.32	1.11	17.31	43.50	-26.19	100	299
4	Н	120.2766	26.58	peak	13.88	22.36	1.16	19.26	43.50	-24.24	100	258
5	Н	296.1836	26.28	peak	13.43	22.29	1.78	19.20	46.00	-26.80	200	307
6	Н	790.6188	29.27	peak	21.29	21.17	2.94	32.33	46.00	-13.67	100	15



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Above 1GHz

Test Mode:

Low Channel (2402 MHz)

Frequency (MHz)	S.A. 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)
4804	39.34	AV	V	33.39	7.22	48.46	31.49	54	-22.51
4804	37.59	AV	Н	33.39	7.22	48.46	29.74	54	-24.26
4804	47.38	PK	V	33.39	7.22	48.46	39.53	74	-34.47
4804	47.04	PK	Η	33.39	7.22	48.46	39.19	74	-34.81
5781	24.26	AV	V	34.58	8.21	48.36	18.69	54	-35.31
5781	23.71	AV	Н	34.58	8.21	48.36	18.14	54	-35.86
5781	40.31	PK	V	34.58	8.21	48.36	34.74	74	-39.26
5781	40.37	PK	Н	34.58	8.21	48.36	34.8	74	-39.2

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. 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)
4880	39.61	AV	V	33.62	7.53	48.36	32.4	54	-21.6
4880	39.18	AV	Н	33.62	7.53	48.36	31.97	54	-22.03
4880	47.9	PK	V	33.62	7.53	48.36	40.69	74	-33.31
4880	48.58	PK	Н	33.62	7.53	48.36	41.37	74	-32.63
12895	24.16	AV	V	40.76	13.5	46.88	31.54	54	-22.46
12895	23.53	AV	Н	40.76	13.5	46.88	30.91	54	-23.09
12895	41.49	PK	V	40.76	13.5	46.88	48.87	74	-25.13
12895	40.86	PK	Н	40.76	13.5	46.88	48.24	74	-25.76



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High Channel (2480 MHz)

Frequency (MHz)	S.A. 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)
4960	38.55	AV	V	33.89	7.86	48.31	31.99	54	-22.01
4960	39.04	AV	Н	33.89	7.86	48.31	32.48	54	-21.52
4960	48.93	PK	V	33.89	7.86	48.31	42.37	74	-31.63
4960	48.83	PK	Н	33.89	7.86	48.31	42.27	74	-31.73
17775	23.86	AV	V	43.21	19.44	44.4	42.11	54	-11.89
17775	24.2	AV	Н	43.21	19.44	44.4	42.45	54	-11.55
17775	41.71	PK	V	43.21	19.44	44.4	59.96	74	-14.04
17775	40.21	PK	Н	43.21	19.44	44.4	58.46	74	-15.54

Note:

- 1, The testing has been conformed to 10*2480MHz=24,800MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.
- 4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.



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Annex A. TEST INSTRUMENT

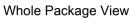
Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/16/2016	09/15/2017	
Line Impedance	LI-125A	191106	09/24/2016	09/23/2017	
Line Impedance	LI-125A	191107	09/24/2016	09/23/2017	
ISN	ISN T800	34373	09/24/2016	09/23/2017	
Transient Limiter	LIT-153	531118	08/31/2016	08/30/2017	
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/16/2016	09/15/2017	>
Power Splitter	1#	1#	08/31/2016	08/30/2017	>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	>
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	~
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	~
OPT 010 AMPLIFIER	0.4.475	0707400400	00/04/0040	00/00/00/7	_
(0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	~
Horn Antenna	BBHA9170	3145226D1	09/28/2016	09/27/2017	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	V
Active Antenna (9kHz-30MHz)	AL-130	121031	10/13/2016	10/12/2017	
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	✓
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	V
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	V



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





EUT - Front View





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EUT - Rear View



EUT - Top View





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EUT - Bottom View



EUT - Left View





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EUT - Right View





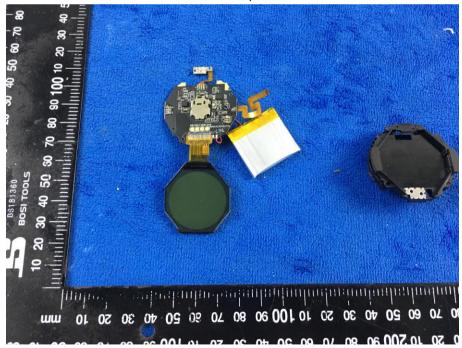
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Annex B.ii. Photograph: EUT Internal Photo





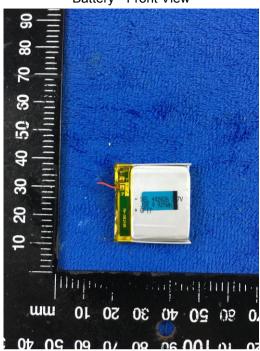
Cover Off - Top View 2



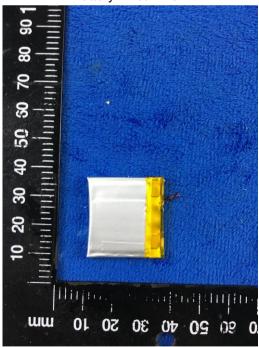


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Battery - Front View



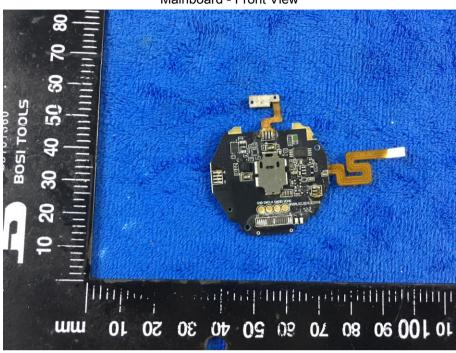
Battery - Rear View



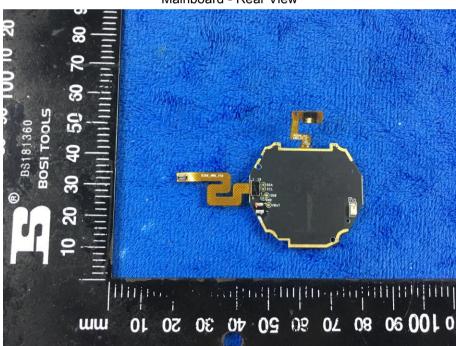


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Mainboard - Front View



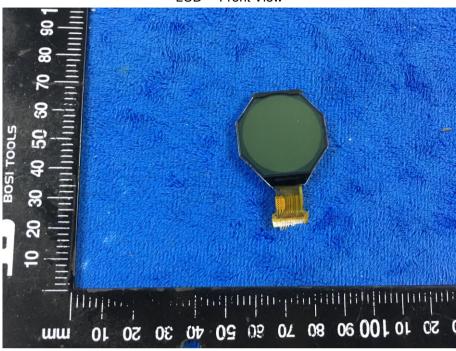
Mainboard - Rear View



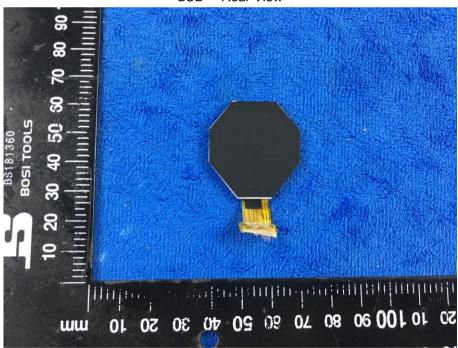


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LCD - Front View



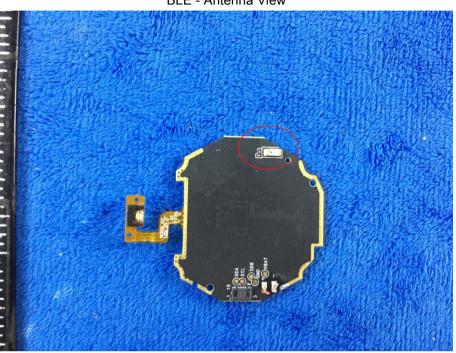
LCD - Rear View





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BLE - Antenna View



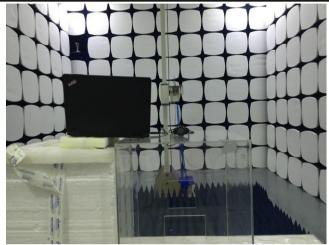


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Annex B.iii. Photograph: Test Setup Photo



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

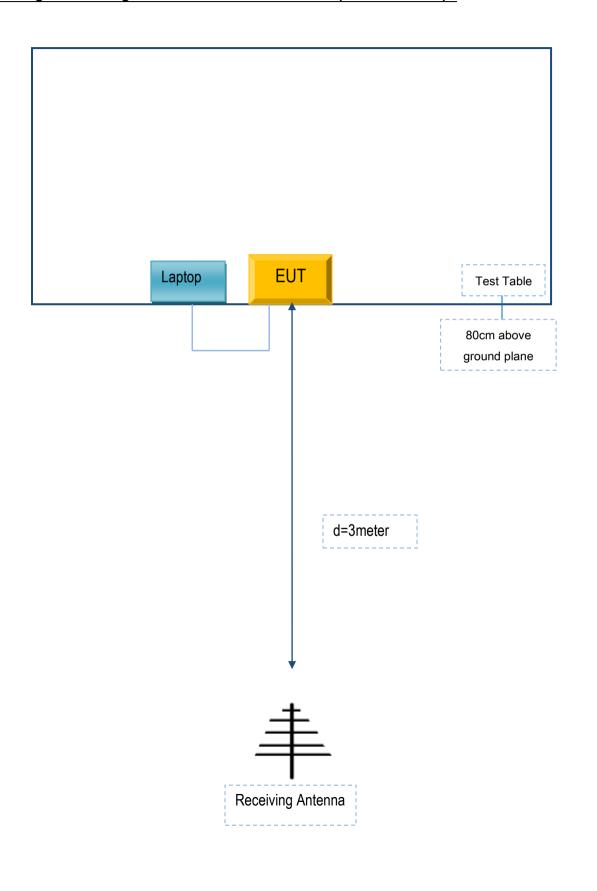
Block Configuration Diagram for AC Line Conducted Emissions

N/A



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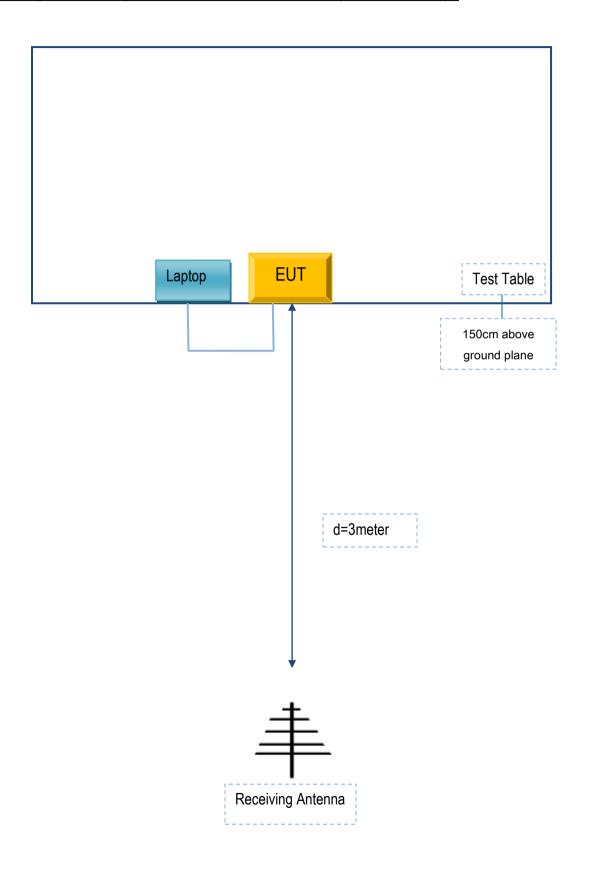
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





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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.

Supporting Equipment:

Manufacturer Description		Model	Serial No
Lenovo Laptop		thinkpad e40	N/A

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	N/A



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

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

Shenzhen Huafurui Technology Co. Ltd

To: SIEMIC.775MontagueExpresswav.Milpitas.CA95035.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.: F1,CUBOT F1

We declare that, all the model PCB, Antenna and Appearance shape, accessories are the same. The difference of these is listed as below:

Main Model No	Serial Model No	Difference
F1	CUBOT F1	Different model name

Thank you!

Signature:

Printed name/title: Paul liu

Paul lin

Address: Adress: Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district

Shenzhen, China