

# FCC RADIO TEST REPORT

## FCC ID: 2AWIQ-JAVS18

Product :IOT Real-time Body Temperature<br/>Measurement Wristband TagTrade Name :JAVSModel Name :JAVS18-2011SG2Serial Model :JAVS18-2011Report No. :HK2005221110-E

## **Prepared for**

Shenzhen Javs Technology Co. ,Ltd.

Room 201-202, 2F, Building F Baoan New Generation IT Industrial Park, Shenzhen, China

## Prepared by

Shenzhen HUAK Testing Technology Co., Ltd.

1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China



## **TEST RESULT CERTIFICATION**

Applicant's name:	Shenzhen Javs Technology Co. ,Ltd.				
Address:	Room 201-202, 2F, Building F Baoan New Generation IT Industrial Park, Shenzhen,China				
Manufacture's Name	.: Shenzhen Javs Technology Co. ,Ltd.				
Address Room 201-202, 2F, Building F Baoan New Generation IT Park, Shenzhen,China					
Product description					
•	IOT Real-time Body Temperature Measurement Wristband Tag				
•					
Product name:					

This device described above has been tested by Shenzhen HUAK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests	May. 19, 2020 ~May. 26, 2020
Date of Issue	May. 26, 2020
Test Result	Pass

**Testing Engineer** 

Gory Di an (Gary Qian)

**Technical Manager** 

Edan Hu

(Eden Hu)

Authorized Signatory

(Jason Zhou)



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#### \*\* Modifited History \*\*

Revison	Description	Issued Data	Remark
Revsion 1.0	Initial Test Report Release	May. 26, 2020	Jason Zhou



#### 1 TEST SUMMARY

#### 1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST		RESULT
AC Power Line Conducted Emission	§ 15.207	COMPLIANT
Field Strength of Fundamental	§ 15.249 (a) (d)/ §15.209	COMPLIANT
Spurious Emissions	§ 15.249 (a) (d)/ §15.209	COMPLIANT
Band Edge	§ 15.249 (a) (d)/ §15.209	COMPLIANT
20dB Occupied Bandwidth	§ 15.215 (c)	COMPLIANT
Antenna requirement	§ 15.203	COMPLIANT

#### 1.2 TEST FACILITY

Test Firm	:	Shenzhen HUAK Testing Technology Co., Ltd.	
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## Address : 1/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

**Designation Number: CN1229** 

Test Firm Registration Number: 616276

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files.

#### 1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty		
Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2



-

## **2 GENERAL INFORMATION**

## 2.1 GENERAL DESCRIPTION OF EUT

Equipment	IOT Real-time Body Temperature Measurement Wristband Tag		
Trade Mark	JAVS		
Model Name	JAVS18-2011SG2		
Serial No.	JAVS18-2011		
	All model's the function, software and electric circuit are the		
Model Difference	same, only with a product color and model named different. Test		
	sample model: JAVS18-2011SG2		
FCC ID	2AWIQ-JAVS18		
Antenna Type	PCB Antenna		
Antenna Gain	0dBi		
Operation frequency	TX: 2467 MHz		
Operation frequency	RX: 2402 MHz		
Number of Channels	1CH		
Modulation Type	ASK		
Battery	DC 3.7V from battery or DC 5V from USB		
Power Source	DC 3.7V from battery or DC 5V from USB		



2.2 Carrier Frequency of Channels

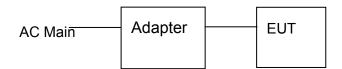
Operation Frequency each of channel				
Channel	Channel Frequency			
01	2467 MHz			

2.3 Operation of EUT during testing

Operating Mode The mode is used: Transmitting mode

2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Conducted, Radiation testing:



Operation of EUT during Above1GHz Radiation testing:



Adapter information Model: HW-059200CHQ Input: 100-240V, 50-60Hz, 0.5A Output: 5VDC, 2A

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position



## 2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated last	Calibrated until	
CONDUCTED EMISSIONS TEST							
1	LISN	2019.12.26	2020.12.25				
2	LISN	R&S	ENV216	HKE-029	2019.12.26	2020.12.25	
3	EMI Test Receiver	R&S	ESCI-7	HKE-010	2019.12.26	2020.12.25	
		RADIAT	FED EMISSION	TEST			
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	201912.26	2020.12.25	
2	Horn antenna	Schwarzbeck	9120D	HKE-013	2019.12.26	2020.12.25	
3	Receiver	R&S	ESCI 7	HKE-010	2019.12.26	2020.12.25	
4	Position controller	High gain antenna Taiwan MF	MF7802	HKE-011	201912.26	2020.12.25	
5	Preamplifier	EMCI	EMC051845S E	HKE-015	2019.12.26	2020.12.25	
6	Preamplifier	Agilent	83051A	HKE-016	2019.12.26	2020.12.25	
7	High pass filter unit	Tonscend	JS0806-F	HKE-055	2019.12.26	2020.12.25	
8	Spectrum analyzer	Agilent	N9020A	HKE-048	2019.12.26	2020.12.25	
9	Spectrum analyzer	Agilent	N9020A	HKE-048	2019.12.26	2020.12.25	
10	Signal generator	Agilent	83630A	HKE-028	2019.12.26	2020.12.25	
11	Signal generator	Agilent	N5182A	HKE-029	2019.12.26	2020.12.25	
12	RF automatic control unit	Tonscend	JS0806-2	HKE-060	2019.12.26	2020.12.25	
13	Power meter	Agilent	E4419B	HKE-085	2019.12.26	2020.12.25	
14	Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	2019.12.26	2020.12.25	



## **3 CONDUCTED EMISSION TEST**

#### 3.1 Test Limit

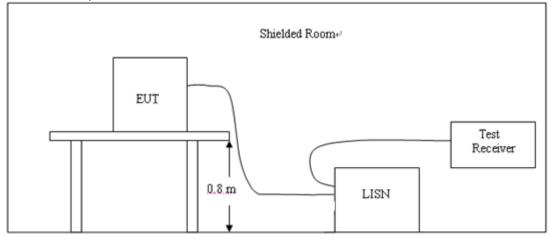
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency	Maximum RF Line Voltage(dBµV)				
	CLASS A		CLASS B		
(MHz)	Q.P.	Ave.	Q.P.	Ave.	
0.15~0.50	79	66	66~56*	56~46*	
0.50~5.00	73	60	56	46	
5.00~30.0	73	60	60	50	

\* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

#### 3.2 Test Setup



#### 3.3 Test Procedure

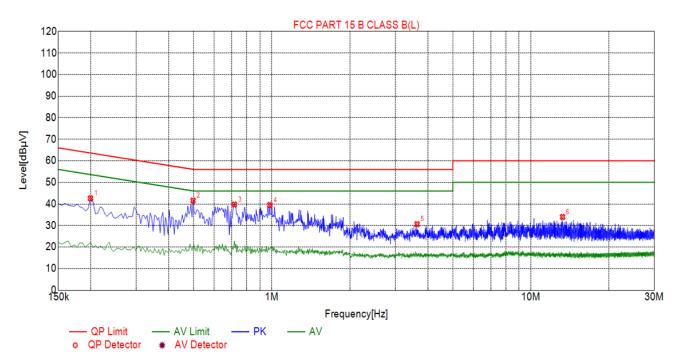
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. A wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT 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.



#### 3.4 Test Result

#### PASS

All the test modes completed for test. only the worst result of was reported as below: Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



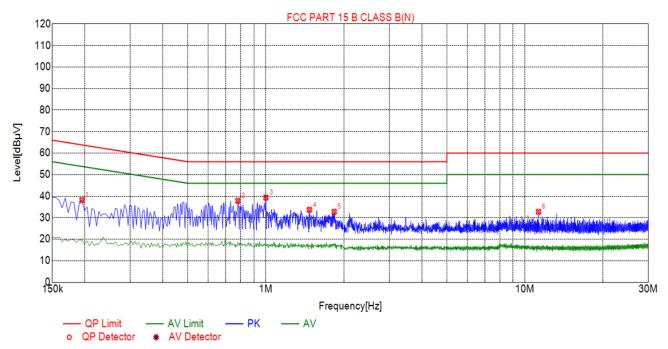
Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1995	42.57	10.03	63.63	21.06	32.54	PK	L	
2	0.4965	41.59	10.04	56.06	14.47	31.55	PK	L	
3	0.7170	39.75	10.05	56.00	16.25	29.70	РК	L	
4	0.9825	39.56	10.06	56.00	16.44	29.50	РК	L	
5	3.6375	30.62	10.25	56.00	25.38	20.37	PK	L	
6	13.2585	33.97	9.96	60.00	26.03	24.01	РК	L	

Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



#### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.1950	38.13	10.03	63.82	25.69	28.10	PK	N			
2	0.7800	37.88	10.05	56.00	18.12	27.83	PK	N			
3	1.0005	39.35	10.06	56.00	16.65	29.29	PK	N			
4	1.4730	33.69	10.10	56.00	22.31	23.59	PK	N			
5	1.8375	32.76	10.14	56.00	23.24	22.62	PK	N			
6	11.2965	32.76	10.00	60.00	27.24	22.76	PK	N			

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor



#### **4 RADIATED EMISSION TEST**

#### 4.1 Test Limit

#### 1. Limit (Field strength of the fundamental signal):

Frequency	Limit(dBuV/m@3m)	Remark
902MHz-928MHz	94.00	Average Value
90210172-92010172	114.00	Peak Value

#### 2. Limit (Spurious Emissions):

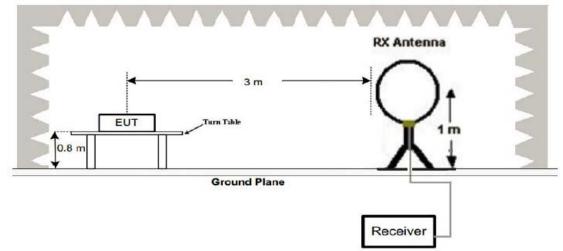
	1		
Frequency	Limit(dBuV/m@3m)	Remark	
0.009-0.490	2400/F(KHz)	Quasi-peak Value	
0.490-1.705	24000/F(KHz)	Quasi-peak Value	
1.705-30	30	Quasi-peak Value	
30MHz-88MHz	40.0	Quasi-peak Value	
88MHz-216MHz	43.5	Quasi-peak Value	
216MHz-960MHz	46.0	Quasi-peak Value	
960MHz-1GHz	54.0	Quasi-peak Value	
Above 1GHz	54.0	Average Value	
	74.0	Peak Value	

#### 3. Limit (Band edge):

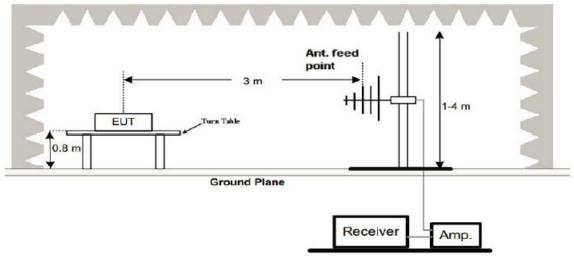
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.



- 4.2 Test Setup
  - 1. Radiated Emission Test-Up Frequency Below 30MHz

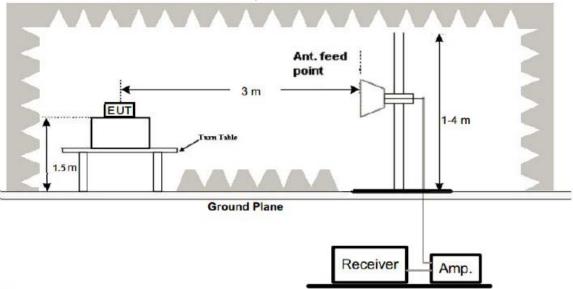


2. Radiated Emission Test-Up Frequency 30MHz~1GHz





3. Radiated Emission Test-Up Frequency Above 1GHz



## 4. Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
Above IGHZ	Peak	1MHz	10Hz	Average Value



- 4.3 Test Procedure
  - 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.
  - 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
  - 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
  - 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
  - 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
  - 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### 4.4 Test Result

Field Strength of Fundamental:

Frequency (MHz)	Emission (dBuV/m)	Ant. Pol.	Limits PK/AV (dBuV/ m)	Margin (dB)	Remark
2467	94.29	Н	114	-19.71	PK
2467	81.44	Н	94	-12.56	AV
2467	94.79	V	114	-19.21	PK
2467	82.15	V	94	-11.85	AV

Spurious Emissions:

For 9 kHz-30MHz Test Results:

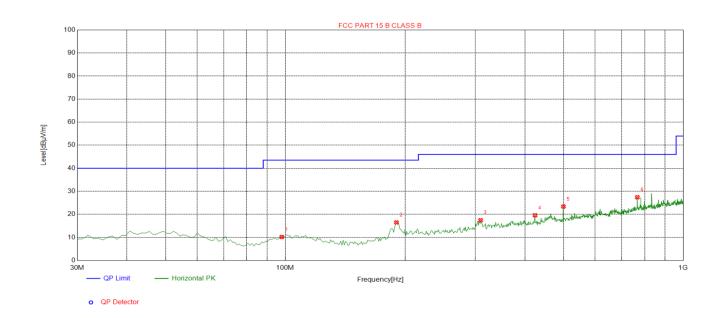
Note: The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



#### For 30MHz-1GHz Test Results:

All the test modes completed for test. The worst case of Radiated Emission is 2467MHz; the test data of this mode was reported.

Temperature:	22°C	Relative Humidity:	46%
Test Date:	May.21, 2020	Pressure:	1010hPa
Test Voltage:	DC 3.7V from battery or DC	Polarization:	Horizontal
	5V from USB		
Test Mode:	Transmitting mode		

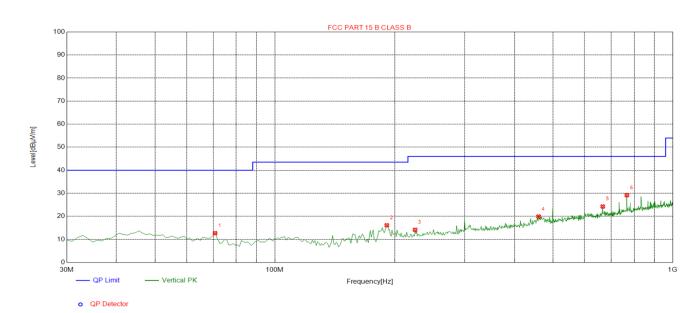


Suspe	Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	97.9680	-15.74	25.92	10.18	43.50	33.32	100	245	Horizontal	
2	190.2102	-15.99	32.48	16.49	43.50	27.01	100	87	Horizontal	
3	309.6396	-12.61	30.04	17.43	46.00	28.57	100	93	Horizontal	
4	424.2142	-9.96	29.55	19.59	46.00	26.41	100	93	Horizontal	
5	499.9500	-8.30	31.69	23.39	46.00	22.61	100	348	Horizontal	
6	766.9670	-3.32	30.73	27.41	46.00	18.59	100	148	Horizontal	

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Temperature:	22°C	Relative Humidity:	46%
Test Date:	May.21, 2020	Pressure:	1010hPa
Test Voltage:	DC 3.7V from battery or DC	Polarization:	Vertical
	5V from USB		
Test Mode:	Transmitting mode		



Suspe	Suspected List									
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	70.7808	-17.81	30.50	12.69	40.00	27.31	100	131	Vertical	
2	191.1812	-15.90	32.03	16.13	43.50	27.37	100	176	Vertical	
3	225.1652	-14.44	28.61	14.17	46.00	31.83	100	264	Vertical	
4	460.1401	-8.66	28.58	19.92	46.00	26.08	100	208	Vertical	
5	666.9570	-4.75	29.02	24.27	46.00	21.73	100	267	Vertical	
6	766.9670	-3.32	32.51	29.19	46.00	16.81	100	18	Vertical	

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



## For Above 1GHz Test Results:

_		PK		Correction	Emission Level			A . / I' ''	Margin	
Frequency (MHz)	Ant. Pol.	Reading (dBµV)	Reading (dBµV)	ading Factor Peak AV		AV	Peak limit (dBµV/m)		Margin Peak(dB)	
4960	Н	50.78		-4.12	46.66		74.00	54.00	-27.34	
7740	Н	50.59		-0.58	50.01		74.00	54.00	-23.99	
4960	V	55.44		-4.17	51.27		74.00	54.00	-22.73	
7740	V	51.31		-0.58	50.73		74.00	54.00	-23.27	

Note:

1. Emission Level = Peak Reading + Correction Factor; Correction Factor = Antenna Factor + Cable loss - Pre-amplifier

2. Margin = Emission - Limit

 The emission levels of other frequencies are very lower than the limit and not show in test report.
Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20dB below the limits or the field strength is too small to be measured.



## Band Edge Requirement:

## Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре			
2310	58.35	-5.81	52.54	74	-21.46	peak			
2310	/	-5.81	1	54	1	AVG			
2390	52.66	-5.84	46.82	74	-27.18	peak			
2390	/	-5.84	1	54	/	AVG			
2400	51.31	-5.84	45.47	74	-28.53	peak			
2400	/	-5.84	1	54	/	AVG			
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

#### Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре		
2310	55.57	-5.81	49.76	74	-24.24	peak		
2310	1	-5.81	1	54	/	AVG		
2390	52.42	-5.84	46.58	74	-27.42	peak		
2390	1	-5.84	1	54	1	AVG		
2400	55.22	-5.84	49.38	74	-24.62	peak		
2400	/	-5.84	1	54	1	AVG		
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



#### Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.44	-5.65	50.79	74	-23.21	peak
2483.50	/	-5.65	1	54	1	AVG
2500.00	53.37	-5.65	47.72	74	-26.28	peak
2500.00	/	-5.65	1	54	1	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
2483.50	56.36	-5.65	50.71	74	-23.29	peak
2483.50	1	-5.65	1	54	1	AVG
2500.00	52.49	-5.65	46.84	74	-27.16	peak
2500.00	1	-5.65	1	54	1	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Pamark: All the other emissions not reported were too low to read and deemed to comply with ECC limit						

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit. Note:

1. Emission Level = Peak Reading + Correction Factor; Correction Factor = Antenna Factor + Cable loss – Pre-amplifier

2. Margin = Emission - Limit

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

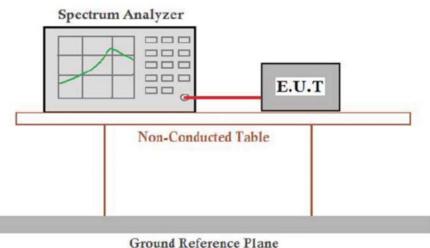
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20dB below the limits or the field strength is too small to be measured.



## **5 OCCUPIED BANDWIDTH TEST**

5.1 Test Setup



5.2 Rules and specifications

CFR 47 Part 15.215(c)

ANSI C63.10: 2013

- 5.3 Test Procedure
  - 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.
  - 2. Set to the maximum power setting and enable the EUT transmit continuously.
  - 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.
  - 4. Measure and record the results in the test report.



#### 5.4 Test Result

PASS

Mode	Frequency(MHz)	20dB Bandwidth (KHz)	Limit (kHz)	Conclusion	
ТХ	2467	1712	/	PASS	





#### 6 ANTENNA REQUIREMENT

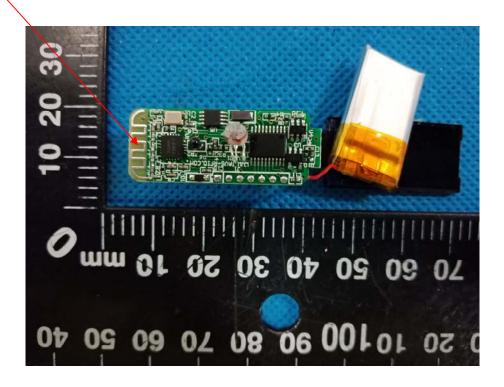
#### Standard Applicable:

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.

#### Antenna Connected Construction

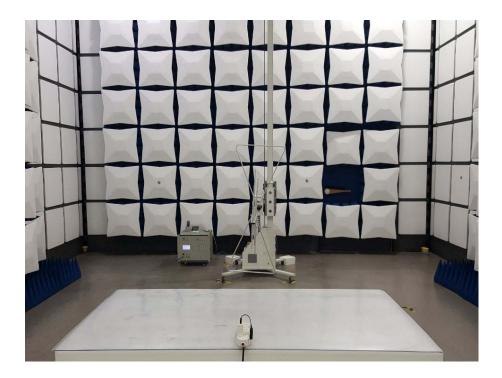
The antenna used in this product is a PCB Antenna which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

#### ANTENNA





## 7 PHOTOGRAPH OF TEST











#### 8 PHOTOS OF THE EUT Reference to the reporter : ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----