

# **FCC Test Report**

Report No.: AGC00071180501FE03

FCC ID : EMOIHV110

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Bluetooth Wireless Sport Earbuds

**BRAND NAME**: iHome

**MODEL NAME** : iHv110, iHv115,HP-6109BT, HP-6106BT, XX-B12VM

**CLIENT**: SDI Technologies Inc

**DATE OF ISSUE** : Jun. 27, 2018

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Subpart C Section 15.249

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	A Land Control of the	Jun. 27, 2018	Valid	Initial release

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## 1. VERIFICATION OF CONFORMITY

Applicant	SDI Technologies Inc
Address	1299, Main Street, Rahway, NJ 07065
Manufacturer	SHENEZHEN LISAIER TRONICS CO.,LTD
Address	No.22 xihu industrial park, xikeng Henggang Town, Longgang district, shenzhen
Product Designation	Bluetooth Wireless Sport Earbuds
Brand Name	iHome Same Same Same Same Same Same Same Sa
Test Model	iHv110
Series Model	iHv115,HP-6109BT, HP-6106BT, XX-B12VM
Difference description	All the same except for the appearance color.
Date of test	May 25, 2018 to Jun. 04, 2018
Deviation	None Statement
Condition of Test Sample	Normal Mormal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By		Harry	Zhang	
Clobal Complaince	Henry Zhang(Zl	hang Zh	nuorui)	Jun. 04, 2018
Reviewed By		cvg	cheng	
® # If Conne	Cool Cheng(Che	ng Men	igguo)	Jun. 27, 2018
Approved By		Fore	y ei	
arce @ ##	Forrest Lei(Le Authorized			Jun. 27, 2018



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#### 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	2.16dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	OdBi Samura Samu
Power Supply	DC 3.7V by battery

#### 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
#2 #M	O The state of the	2402MHz
	AC1 TO CO	2403MHz
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
		The state of the s
	77 To and Company	2479 MHz
	78	2480 MHz



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#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

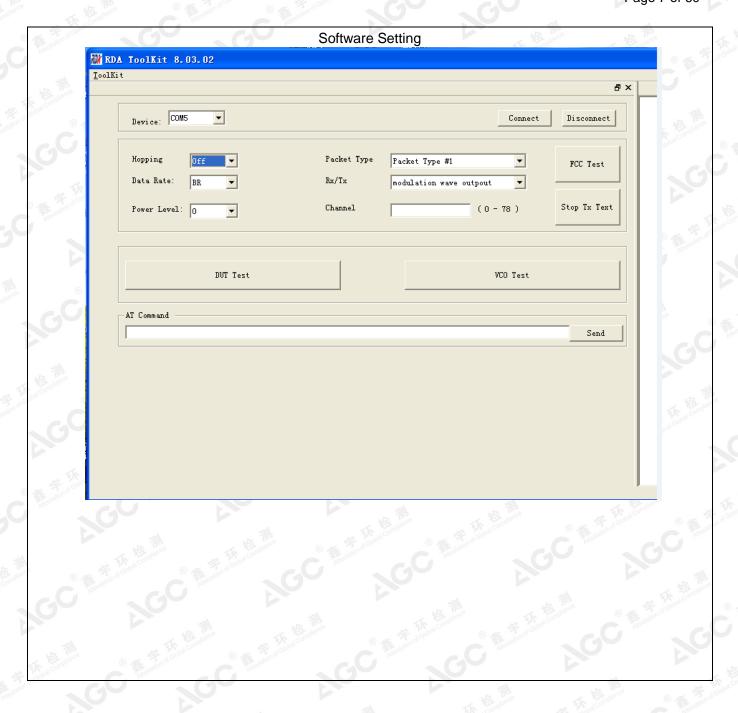
#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
® Andrews	Low channel GFSK
2 3	Middle channel GFSK
3	High channel GFSK
· 4 (4)	Low channel π /4-DQPSK
® 5 June Colore	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
_ # The comment of the second	Middle channel 8DPSK
90	High channel 8DPSK
10	BT Link
100 mm	

#### Note

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.





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# 5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			KEL CON	
EUT	ig allon c	Control box	Da.	PC

#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Equipment Mfr/Brand		Remark	
C	Bluetooth Wireless Sport Earbuds	iHome	iHv110	EUT	
2	Battery	AUN	380926	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	SERIAL	USB_SPI_TOOLS	A.E	
5	USB Cable	N/A	1m unshielded	A.E	
6 🔞 🗸	IPOD	APPLE	A1367	A.E	



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#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	N/A
§15.215	Bandwidth	Compliant

Note: N/A means it's not applicable to this item.



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# 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP Lab Code	600153-0
Designation Number	CN5028
Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0



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#### 7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

#### 8. TEST EQUIPMENT LIST

#### **TEST EQUIPMENT OF RADIATED EMISSION TEST**

					(B) Alle con	
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018	
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018	
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018	
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019	
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018	
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018	
Loop Antenna	A.H.Systems,Inc	SAS-562B		Mar. 01, 2018	Feb. 28, 2019	
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018	
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018	
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018	



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## 9. RADIATED EMISSION

#### 9.1TEST LIMIT

#### Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	9
0.490 ~ 1.705	30	24000/F(kHz)	技訓
1.705 ~ 30	30	30	E Cobaco (Color of Color of Co
30 ~ 88	3	100	40.0
88 ~ 216	3 - 6	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 The state of the	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m

Remark:

- (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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#### 9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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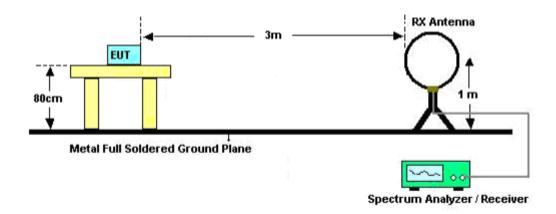
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

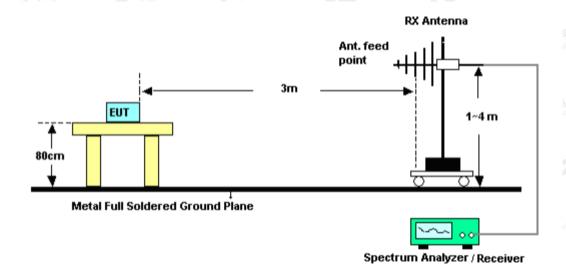


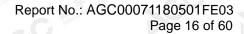
#### 9.3. TEST SETUP

#### Radiated Emission Test-Setup Frequency Below 30MHz



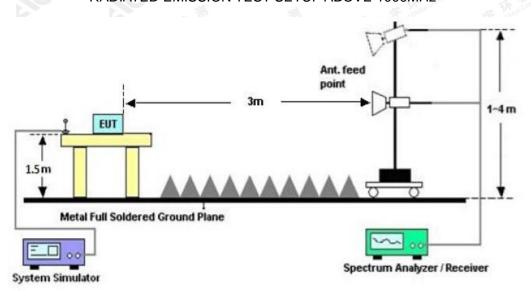
#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz







## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 9.4. TEST RESULT

FOR BR/EDR

(Worst modulation: 8DPSK)

#### **RADIATED EMISSION BELOW 30MHz**

No emission found between lowest internal used/generated frequencies to 30MHz.

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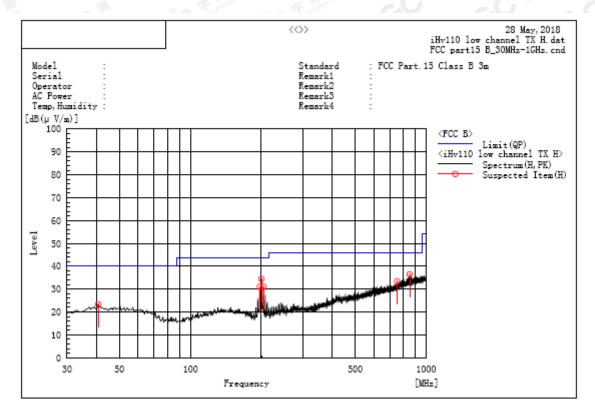
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#### **RADIATED EMISSION BELOW 1GHz**

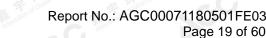
## RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



#### A. Suspected List:

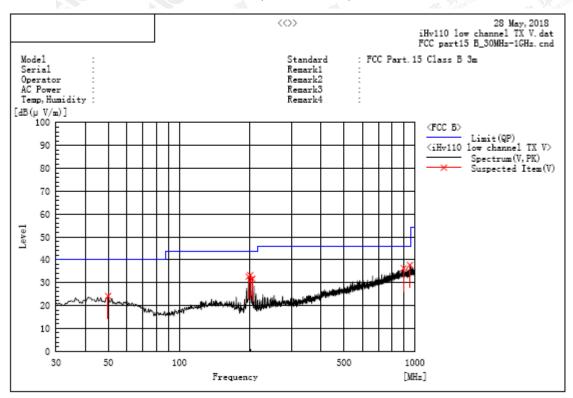
Frequency MHz	Polarization	Reading dB(uV)			Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
40.670	Н	6.0	17.4	23.4	40.0	16.6	Pass	200.0	104.4
196.840	Н	17.4	13.6	31.0	43.5	12.5	Pass	150.0	251.5
200.235	Н	21.0	13.5	34.5	43.5	9.0	Pass	200.0	104.4
204.115	Н	17.5	13.6	31.1	43.5	12.4	Pass	100.0	91.5
751.680	Н	5.8	27.6	33.4	46.0	12.6	Pass	200.0	215.7
850.620	Н	6.9	29.6	36.5	46.0	9.5	Pass	100.0	17.9

**RESULT: PASS** 





## RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



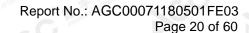
#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
49.885	V	7.0	17.1	24.1	40.0	15.9	Pass	150.0	218.1
196.840	V	19.1	13.6	32.7	43.5	10.8	Pass	150.0	147.3
200.235	V	19.8	13.5	33.3	43.5	10.2	Pass	100.0	288.1
204.115	V	18.1	13.6	31.7	43.5	11.8	Pass	150.0	110.9
896.695	V	6.2	30.1	36.3	46.0	9.7	Pass	100.0	288.1
951.500	V	7.0	30.7	37.7	46.0	8.3	Pass	200.0	94.4

#### **RESULT: PASS**

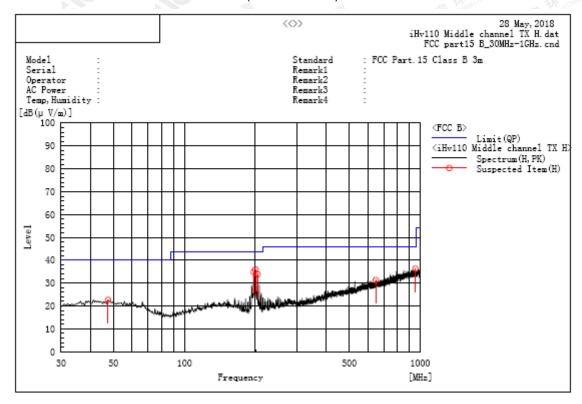
**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.





## RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



#### A. Suspected List:

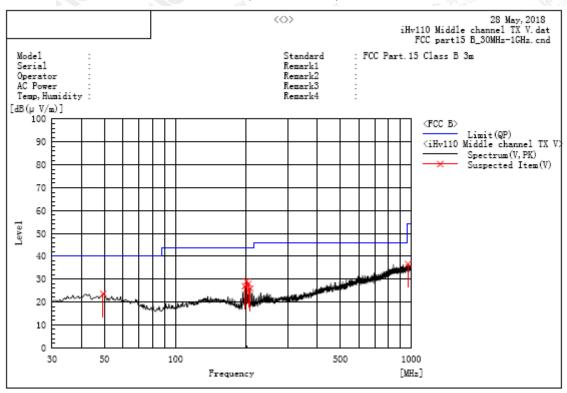
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
47.460	H	5.5	17.2	22.7	40.0	17.3	Pass	150.0	180.1
196.840	H	21.2	13.6	34.8	43.5	8.7	Pass	150.0	251.4
200.235	H	22.4	13.5	35.9	43.5	7.6	Pass	200.0	56.6
204.115	Н	20.2	13.6	33.8	43.5	9.7	Pass	100.0	107.4
647.890	Н	5.7	25.6	31.3	46.0	14.7	Pass	100.0	35.2
951.985	Н	5.6	30.7	36.3	46.0	9.7	Pass	200.0	21.1

**RESULT: PASS** 



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## RADIATED EMISSION TEST- (30MHz-1GHz)- MIDDLE CHANNEL -VERTICAL



## A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
49.400	V	6.5	17.1	23.6	40.0	16.4	Pass	200.0	323.5
196.840	V	13.3	13.6	26.9	43.5	16.6	Pass	150.0	179.0
200.235	V	15.6	13.5	29.1	43.5	14.4	Pass	150.0	143.2
204.115	V	14.3	13.6	27.9	43.5	15.6	Pass	200.0	72.2
207.995	V	12.1	13.8	25.9	43.5	17.6	Pass	200.0	143.0
967.505	V	5.8	30.8	36.6	54.0	17.4	Pass	100.0	266.0

**RESULT: PASS** 

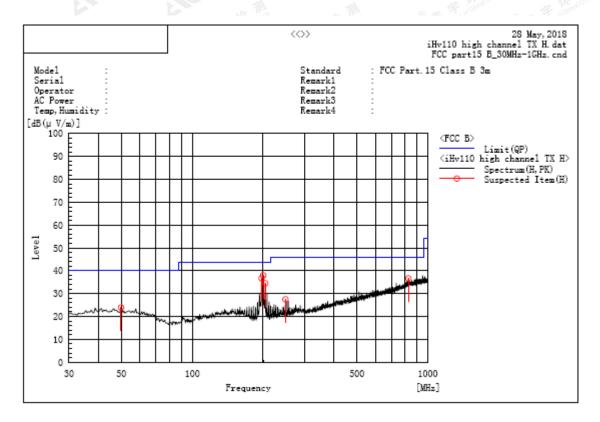
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



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## RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



#### A. Suspected List:

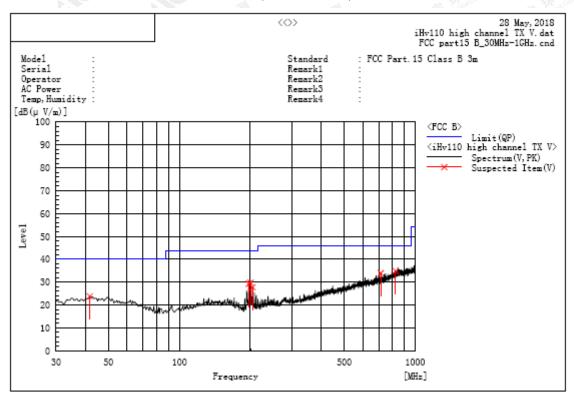
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
826.370	H	7.4	29.2	36.6	46.0	9.4	Pass	200.0	174.8
248.735	Н	11.4	16.1	27.5	46.0	18.5	Pass	100.0	343.5
204.115	H	20.9	13.6	34.5	43.5	9.0	Pass	150.0	343.5
200.235	Н	24.5	13.5	38.0	43.5	5.5	Pass	100.0	343.5
196.840	Н	23.1	13.6	36.7	43.5	6.8	Pass	100.0	343.5
49.885	H	6.8	17.1	23.9	40.0	16.1	Pass	100.0	116.7

**RESULT: PASS** 



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#### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB dB(uV/m) dB(uV/m) QP		Margin dB	Pass/Fail	Height cm	Angle deg	
41.640	V	6.4	17.4	23.8	40.0	16.2	Pass	100.0	99.2
196.840	V	15.7	13.6	29.3	43.5	14.2	Pass	100.0	133.9
200.235	V	16.3	13.5	29.8	43.5	13.7	Pass	150.0	161.2
204.115	V	14.1	13.6	27.7	43.5	15.8	Pass	100.0	147.8
713.850	V	7.2	26.7	33.9	46.0	12.1	Pass	200.0	321.8
824.430	v	5.7	29.2	34.9	46.0	11.1	Pass	100.0	13.8

#### **RESULT: PASS**

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

The "Factor" value can be calculated automatically by software of measurement system.



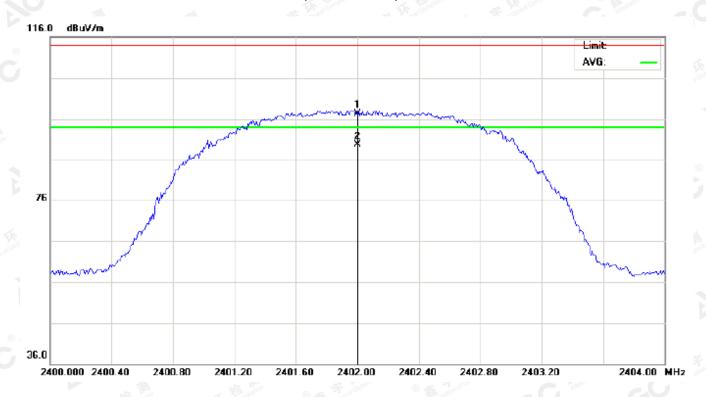
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# RADIATED EMISSION ABOVE 1GHz FOR BR/EDR

(Worst modulation: 8DPSK)

#### For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



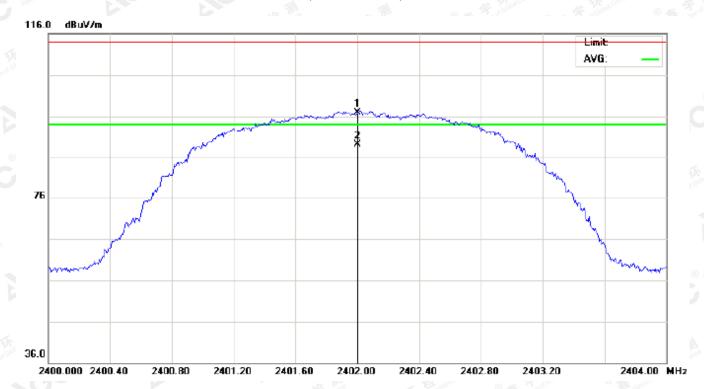
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	1	em	degree	
1		2402.000	87.04	10.32	97.36	114.00	-16.64	peak			
2	*	2402.000	79.09	10.32	89.41	94.00	-4.59	AVG	100	256	

RESULT: PASS



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# RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



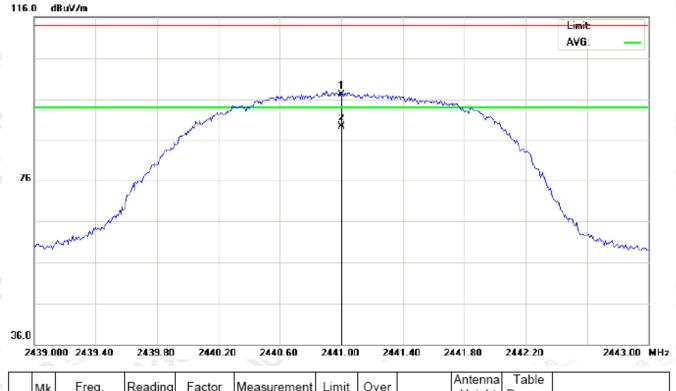
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	86.62	10.32	96.94	114.00	-17.06	peak			
2	*	2402.000	78.55	10.32	88.87	94.00	-5.13	AVG	100	321	

RESULT: PASS



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# RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



N	lo.	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		2441.000	86.74	10.36	97.10	114.00	-16.90	peak			
Γ	2	*	2441.000	78.79	10.36	89.15	94.00	-4.85	AVG	100	256	

**RESULT: PASS** 

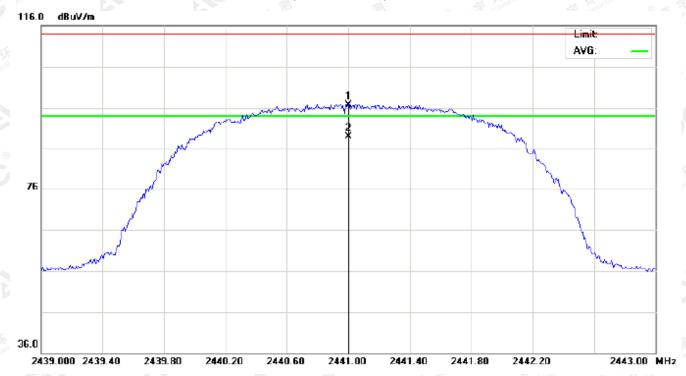
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## RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



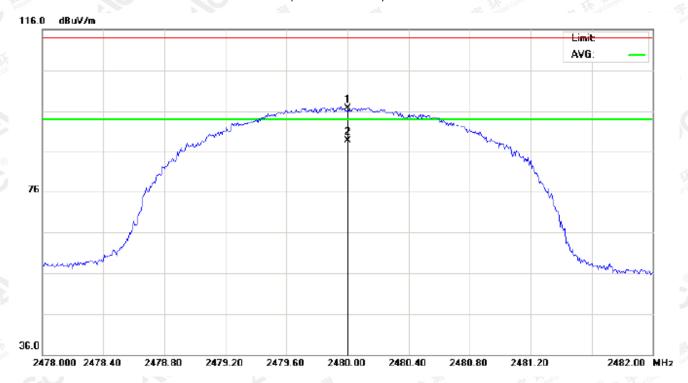
N	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2441.000	86.33	10.36	96.69	114.00	-17.31	peak			
	2	*	2441.000	78.28	10.36	88.64	94.00	-5.36	AVG	100	156	

**RESULT: PASS** 



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# RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



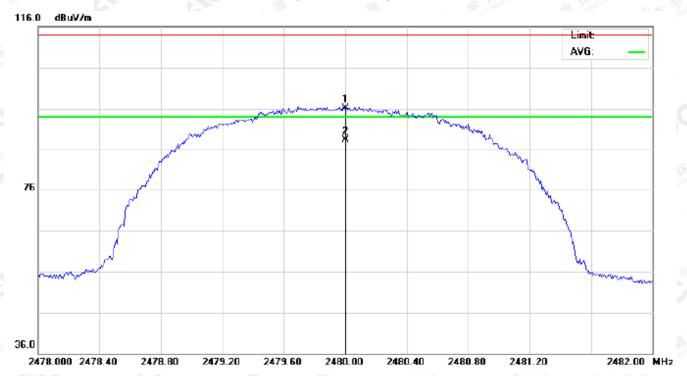
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	86.22	10.41	96.63	114.00	-17.37	peak			
2	*	2480.000	78.12	10.41	88.53	94.00	-5.47	AVG	100	317	

**RESULT: PASS** 



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## RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



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		2480.000	85.74	10.41	96.15	114.00	-17.85	peak			
2	*	2480.000	77.79	10.41	88.20	94.00	-5.80	AVG	100		

## **RESULT: PASS**

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



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## Field strength of the fundamental signal

## 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	87.04	10.32	97.36	114	-16.64	Horizontal	
2402	86.62	10.32	96.94	114	-17.06	Vertical	
2441	86.74	10.36	97.10	114	-16.90	Horizontal	
2441	86.33	10.36	96.69	114	-17.31	Vertical	
2480	86.22	10.41	96.63	114	-17.37	Horizontal	
2480	85.74	10.41	96.15	114	-17.85	Vertical	

## Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.09	10.32	89.41	94	-4.59	Horizontal	
2402	78.55	10.32	88.87	94	-5.13	Vertical	
2441	78.79	10.36	89.15	94	-4.85	Horizontal	
2441	78.28	10.36	88.64	94	-5.36	Vertical	
2480	78.12	10.41	88.53	94	-5.47	Horizontal	
2480	77.79	10.41	88.20	94	-5.80	Vertical	



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## 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.56	10.32	96.88	114	-17.12	Horizontal
2402	86.15	10.32	96.47	114	-17.53	Vertical
2441	86.29	10.36	96.65	114	-17.35	Horizontal
2441	85.90	10.36	96.26	114	-17.74	Vertical
2480	85.78	10.41	96.19	114	-17.81	Horizontal
2480	85.24	10.41	95.65	114	-18.35	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.65	10.32	88.97	94	-5.03	Horizontal
2402	78.10	10.32	88.42	94	-5.58	Vertical
2441	78.32	10.36	88.68	94	-5.32	Horizontal
2441	77.84	10.36	88.20	94	-5.80	Vertical
2480	77.67	10.41	88.08	94	-5.92	Horizontal
2480	77.32	10.41	87.73	94	-6.27	Vertical



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## 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.09	10.32	96.41	114	-17.59	Horizontal
2402	85.67	10.32	95.99	114	-18.01	Vertical
2441	85.88	10.36	96.24	114	-17.76	Horizontal
2441	85.47	10.36	95.83	114	-18.17	Vertical
2480	85.30	10.41	95.71	114	-18.29	Horizontal
2480	84.77	10.41	95.18	114	-18.82	Vertical

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.19	10.32	88.51	94	-5.49	Horizontal
2402	77.68	10.32	88.00	94	-6.00	Vertical
2441	77.88	10.36	88.24	94	-5.76	Horizontal
2441	77.38	10.36	87.74	94	-6.26	Vertical
2480	77.18	10.41	87.59	94	-6.41	Horizontal
2480	76.87	10.41	87.28	94	-6.72	Vertical



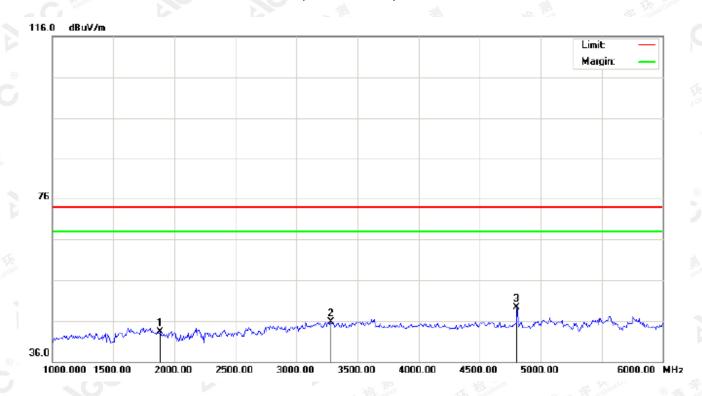
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#### FOR BR/EDR

(Worst modulation: 8DPSK)

#### **For Harmonics**

## RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



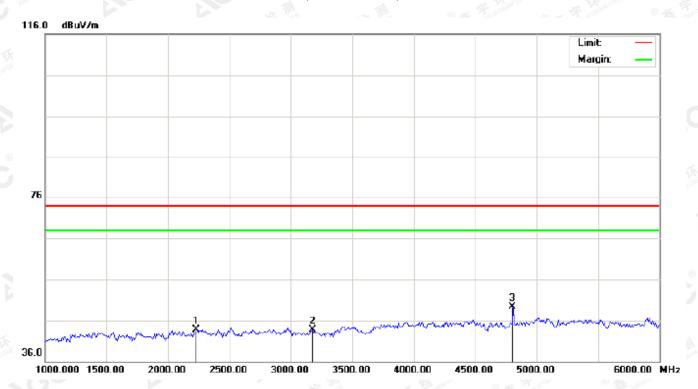
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1883.333	34.67	8.65	43.32	74.00	-30.68	peak			
2		3283.333	33.80	11.91	45.71	74.00	-28.29	peak			
3	*	4804.000	41.71	7.69	49.40	74.00	-24.60	peak			

RESULT: PASS



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# RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



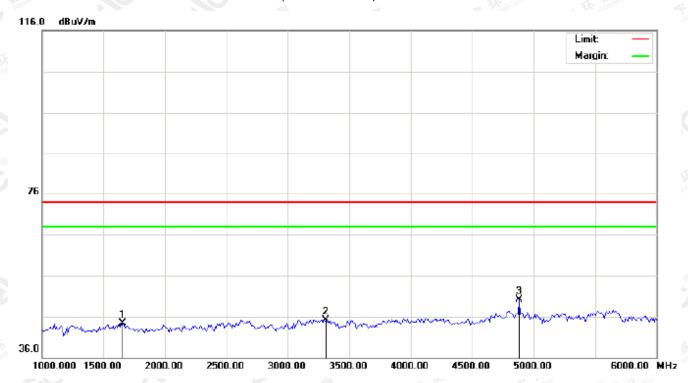
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2233.333	33.55	10.14	43.69	74.00	-30.31	peak			
2		3175.000	31.84	11.80	43.64	74.00	-30.36	peak			
3	*	4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

**RESULT: PASS** 



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# RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



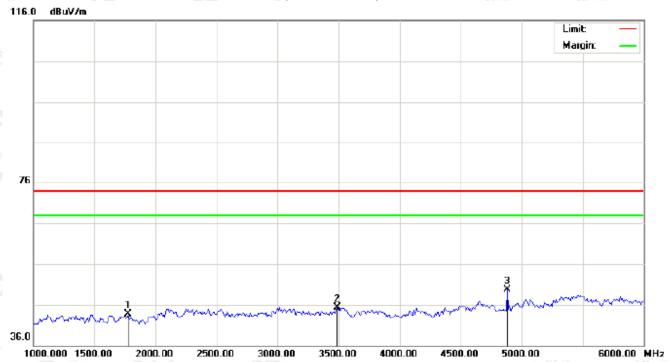
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1658.333	38.10	6.29	44.39	74.00	-29.61	peak			
2		3308.333	33.22	11.93	45.15	74.00	-28.85	peak			
3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

**RESULT: PASS** 



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## RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



N	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		1775.000	36.22	7.51	43.73	74.00	-30.27	peak			
	2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
	3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

**RESULT: PASS** 

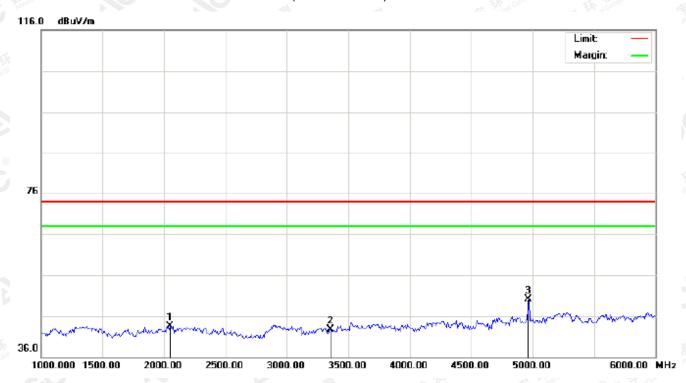
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# RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



No	D. N	Лk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		. [	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1			2050.000	33.62	9.93	43.55	74.00	-30.45	peak			
2			3358.333	30.70	11.98	42.68	74.00	-31.32	peak			
3	,	*	4960.000	42.10	8.09	50.19	74.00	-23.81	peak			

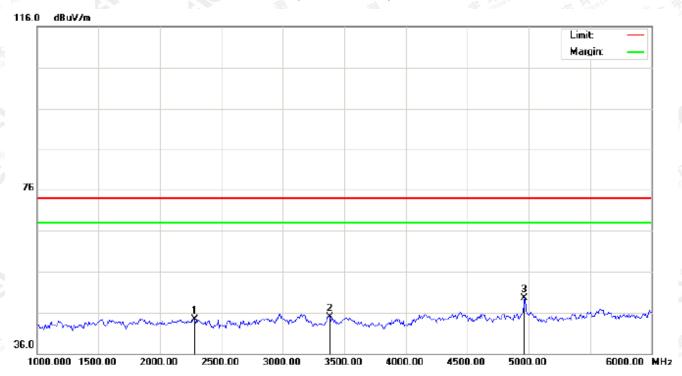
RESULT: PASS

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# RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



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		2283.333	34.05	10.19	44.24	74.00	-29.76	peak			
2		3383.333	32.89	12.00	44.89	74.00	-29.11	peak			
3	*	4960.000	41.41	8.09	49.50	74.00	-24.50	peak			

### **RESULT: PASS**

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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## 10. BAND EDGE EMISSION

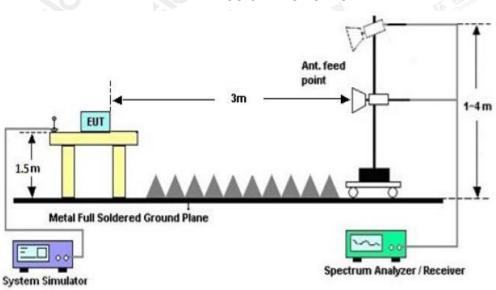
### 10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)	Stop frequency(MHz)
2200	2405
2478	2500

#### **10.2 TEST SETUP**

## RADIATED EMISSION TEST SETUP



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# **10.3 RADIATED TEST RESULT**

## FOR BR/EDR

(Worst modulation: 8DPSK)

### TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq. Reading Factor Measurement Limit Ove	Over	Detector	Antenna Height	Table Degree	Comment				
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2373.225	32.17	10.29	42.46	74.00	-31.54	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	38.97	10.32	49.29	74.00	-24.71	peak			
4	*	2402.000	86.92	10.32	97.24	74.00	23.24	peak			
5	Х	2402.000	78.98	10.32	89.30	74.00	15.30	AVG	100	247	

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## TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



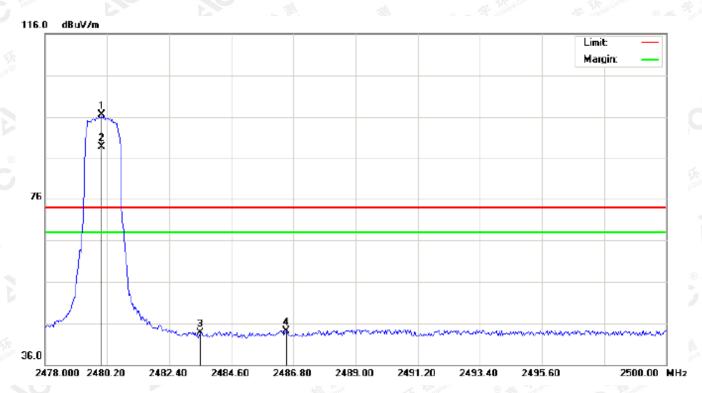
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2375.275	32.10	10.29	42.39	74.00	-31.61	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	35.06	10.32	45.38	74.00	-28.62	peak			
4	*	2402.000	86.50	10.32	96.82	74.00	22.82	peak			
5	Х	2402.000	78.42	10.32	88.74	74.00	14.74	AVG	100	157	

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



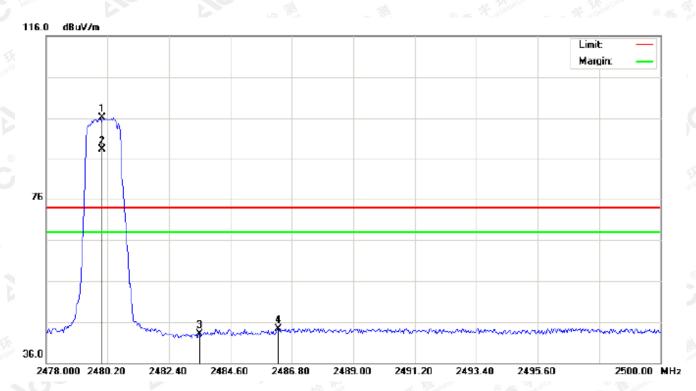
N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1	*	2480.000	86.10	10.41	96.51	74.00	22.51	peak			
	2	Χ	2480.000	78.00	10.41	88.41	74.00	14.41	AVG	100	261	
	3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
	4		2486.543	33.65	10.42	44.07	74.00	-29.93	peak			

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



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	*	2480.000	85.61	10.41	96.02	74.00	22.02	peak			
2	Х	2480.000	77.68	10.41	88.09	74.00	14.09	AVG	100	145	
3		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
4		2486.323	33.94	10.41	44.35	74.00	-29.65	peak			

## **RESULT: PASS**

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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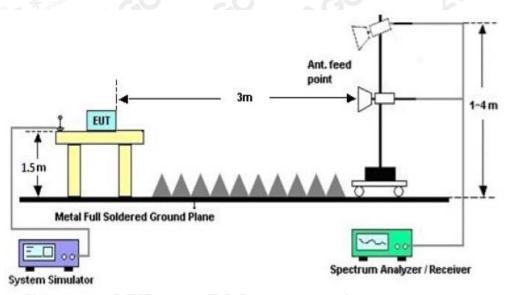
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## 11. 20DB BANDWIDTH

### 11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

### 11.2. TEST SET-UP



# 11.3. LIMITS AND MEASUREMENT RESULTS

#### FOR BR/EDR

BLUET	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
		Measurement Result								
Applicable Limits		Result								
		99%OBW (MHz)	-20dB BW(MHz)	Nesuit						
Solar Complete G State abort of Cal	Low Channel	0.898	1.071	PASS						
N/A	Middle Channel	0.893	1.057	PASS						
	High Channel	0.905	1.073	PASS						

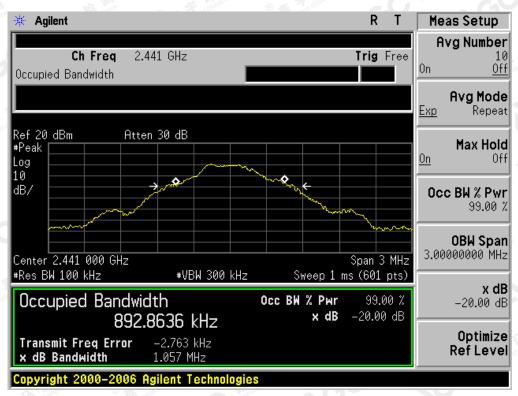
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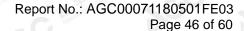
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

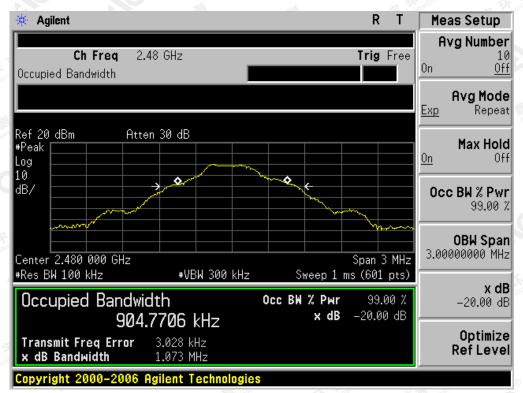


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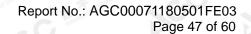




#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



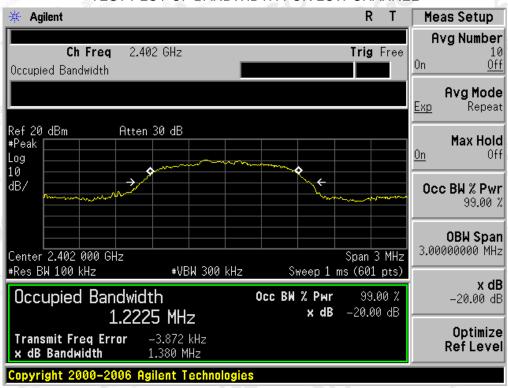
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.





Alle				*N (0"" Z				
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT								
		Measure	ement Result					
Applicable Limits		Doorle						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The fill the	Low Channel	1.223	1.380	PASS				
N/A	Middle Channel	1.209	1.367	PASS				
	High Channel	1.208	1.354	PASS				

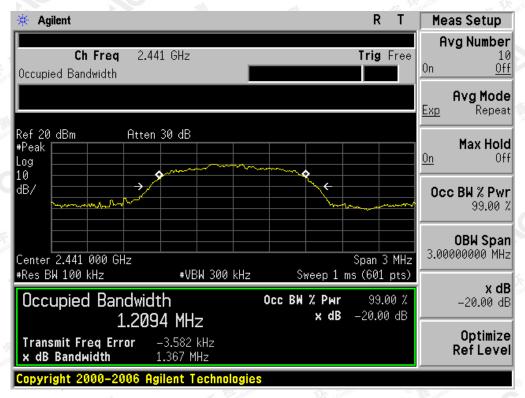
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



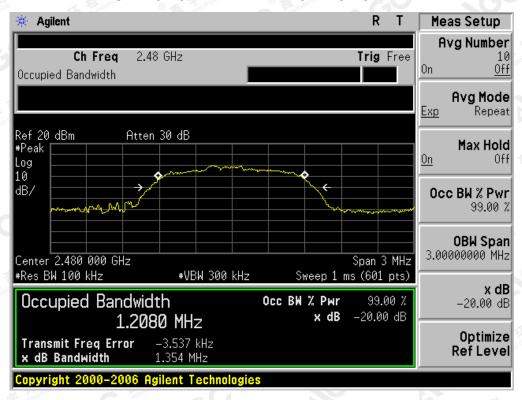
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



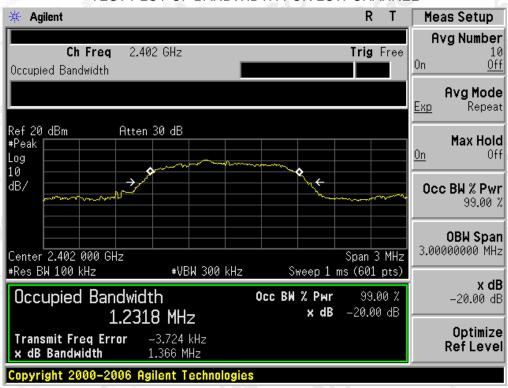
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.



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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT										
		Measurement Result								
Applicable Limits		D								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
The fill the state of the state	Low Channel	1.232	1.366	PASS						
N/A	Middle Channel	1.229	1.387	PASS						
	High Channel	1.230	1.375	PASS						

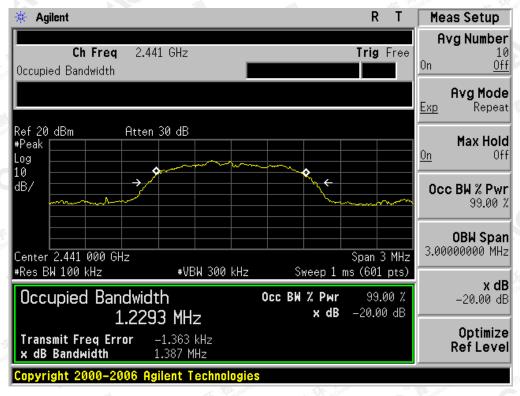
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



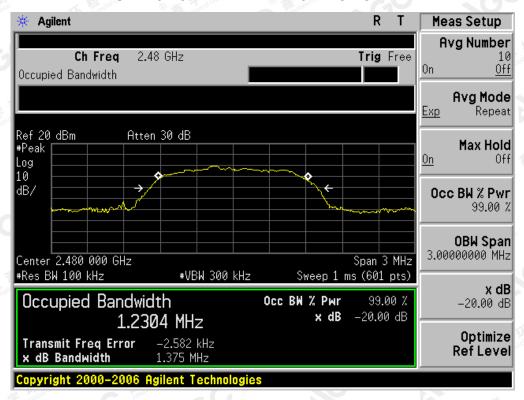
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# 12. FCC LINE CONDUCTED EMISSION TEST

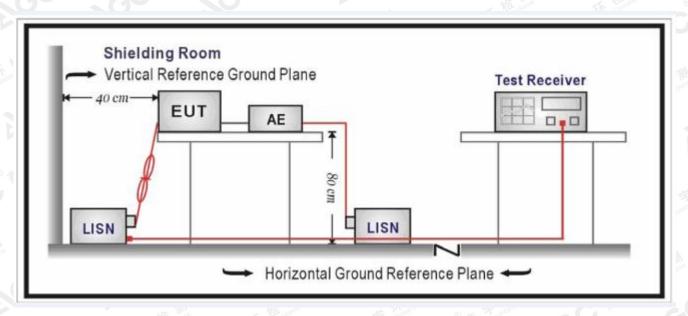
## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	8 Age 12	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.

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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## 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 DC charging voltage by adapter or PC which received 120V/60Hzpower 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 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.

### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

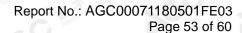
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.
- The test data of the worst case condition(s) was reported on the Summary Data page.

#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

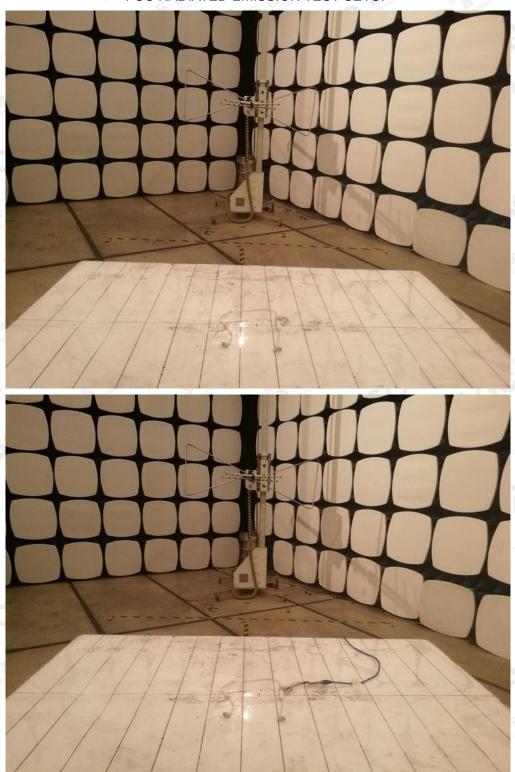
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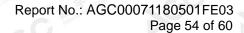


# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



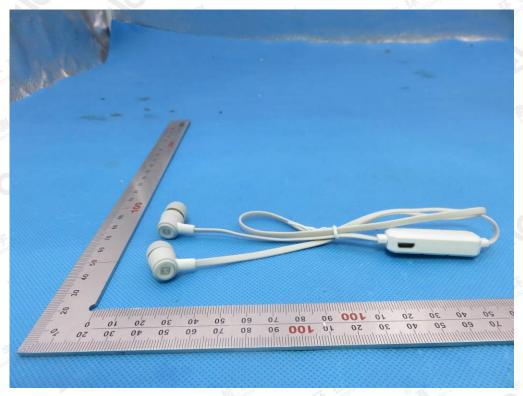
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## FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



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## LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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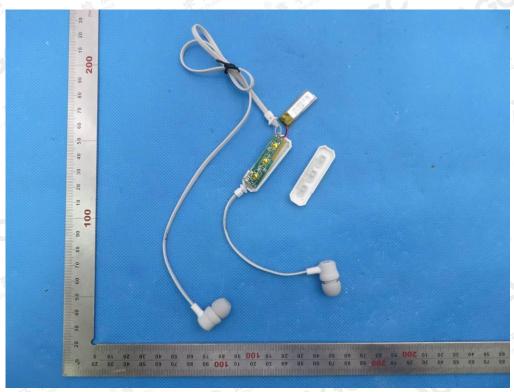
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# VIEW OF EUT (PORT)



**OPEN VIEW OF EUT** 



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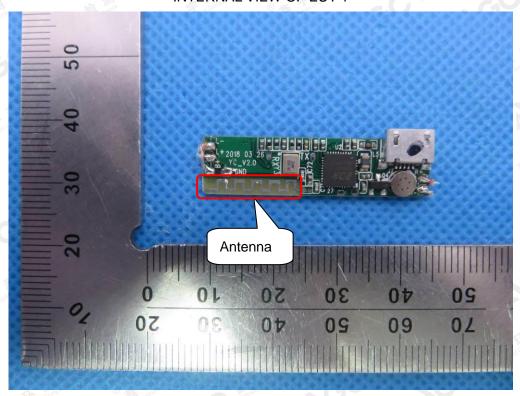
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### VIEW OF BATTERY



**INTERNAL VIEW OF EUT-1** 



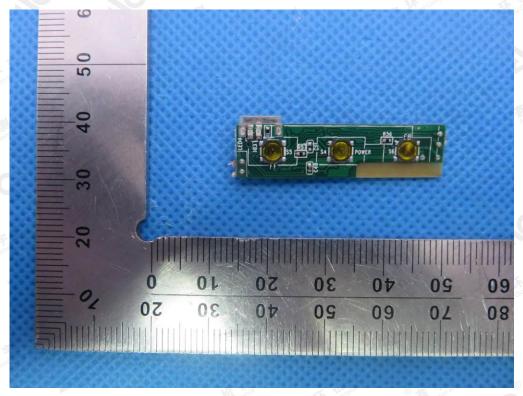
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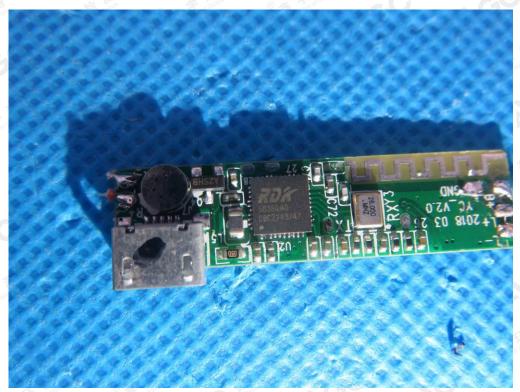
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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



----END OF REPORT----

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