

# FCC Test Report

## Report No.: AGC00124180601FE03

FCC ID	: XEL-B5
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Dual Wireless Stereo Headset
BRAND NAME	: ORICORE
MODEL NAME	: B5 the GC GC
CLIENT	Shenzhen Hongnanke Communication Equipment Co., Ltd
DATE OF ISSUE	: Jul 06, 2018
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.249
<b>REPORT VERSION</b>	: V1.0

## Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report No.: AGC00124180601FE03 Page 2 of 65

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Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jul. 06, 2018	Valid	Initial release

#### **Report Revise Record**

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Report No.: AGC00124180601FE03 Page 3 of 65

## TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
2.2. TABLE OF CARRIER FREQUENCYS	5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM 5.2. EQUIPMENT USED IN EUT SYSTEM 5.3. SUMMARY OF TEST RESULTS	8 8 9
6. TEST FACILITY	
7.TEST METHOD	
8. TEST EQUIPMENT LIST	
9. RADIATED EMISSION	12
9.1TEST LIMIT	
9.2. MEASUREMENT PROCEDURE 9.3. TEST SETUP	13 15
9.3. TEST SETUP 9.4. TEST RESULT	
10. BAND EDGE EMISSION	39
10.1. MEASUREMENT PROCEDURE	
10.2 TEST SETUP	
11. 20DB BANDWIDTH	
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SET-UP	
12. FCC LINE CONDUCTED EMISSION TEST	
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	51
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	52
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	55

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#### Report No.: AGC00124180601FE03 Page 4 of 65

### **1. VERIFICATION OF CONFORMITY**

Applicant	Shenzhen Hongnanke Communication Equipment Co., Ltd
Address	No. 16, the Second Industry Park Xiakeng, Tongle, Longgang District, Shenzhen, Guangdong, China
Manufacturer	Shenzhen Hongnanke Communication Equipment Co., Ltd
Address	No. 16, the Second Industry Park Xiakeng, Tongle, Longgang District, Shenzhen, Guangdong, China
Product Designation	Dual Wireless Stereo Headset
Brand Name	ORICORE
Test Model	B5
Date of test	Jun. 22, 2018 to Jun. 29, 2018
Deviation	None
Condition of Test Sample	Normal
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.

Jonhan Wang

Tested By

Jonhen Wang(Wang Yonghuan) Jun. 29, 2018

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**Reviewed By** 

Cool Cheng(Cheng Mengguo)

Jul. 06, 2018

Forvesto e

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jul. 06, 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
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79 for BR/EDR
Hardware Version	B5-L/R-V1.1
Software Version	B5-V1.0-20171226
Antenna Designation	Fixed Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: 1 The BT function	of ELIT didn't work when charging

Note: 1. The BT function of EUT didn't work when charging

2. The EUT comprises left and right channel headsets, both are the same and have been tested. Only the test data of left headset recorded in this report.

#### 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
	0 The constant	2402MHz
The constance	The Content of the second	2403MHz
C These of Contractions		
GU NOU	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
the commence	40 GO	2442 MHz
	77	2479 MHz
The the manual and the	78	2480 MHz

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#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm$ 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

NO.		TEST MODE D	DESCRIPTION	N	
Contraction Contraction Contraction	A salar of Cioban	Low chan	nel GFSK		
2	S	Middle cha	nnel GFSK	-mance -	K Compliance
3		High chan	nel GFSK	C These of	3101
4 H 1	C The stored clobal Contraction Contraction	Low channel	π /4-DQPSK	GU	
© 5 5 or of Cloud	10 × 00	Middle channe	el π /4-DQPSk		下下
6 6		High channel	π/4-DQPSK	Fond Global Com	3 Franklin of Global
7	Andrease Const	Low chann	nel 8DPSK	~GC	
For the course of the states of the	CO Martin	Middle char	nnel 8DPSK		-1111
90		High chanr	nel 8DPSK	TF TF	bal Compliance
10		BTI	Link	C Atlestation of C	a.C
			2000		

#### 4. DESCRIPTION OF TEST MODES

#### 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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Report No.: AGC00124180601FE03 Page 7 of 65

						000
		Test Tool -	Version 2.1.0	. 11688		
iew Options/	Help		Engineer :		Login	Logout
OM7	v 😢 👰 -					
RX Crys	stal Trim Test Mod	de Controller Mo	de			
CTX_START	RF Freq.(MHz)	2480	*			
CTX_DATA	REFIEQ.(MID2)	2400	Y		Read from I	Flash(BR)
BTX_PACKET	Tx GC	30			Read from F	
E Iransmitter Test	РКТ Туре	DH1	~		Iteaulionii	lash(EDR)
	Data Type	PN sequence	· ·			
	Hopping on Temperature	Compensation	Execute			
00:37] BTx Packe 01:59] BTx Packe	et Complete! et Complete!					
00:37] BTx Packe 01:59] BTx Packe 02:48] BTx Packe 03:07] BTx Packe	et Complete! et Complete! et Complete! et Complete!					
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	et Complete! et Complete! et Complete! et Complete! et Complete!	000, Parity: None,	Handshake: None	Status	SysMode	e: Device, Boot R

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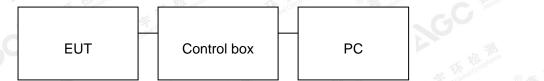
#### Report No.: AGC00124180601FE03 Page 8 of 65

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

Configure 1: (Normal hopping)

EUT

#### Configure 2: (Control continuous TX)



#### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
	Dual Wireless Stereo Headset	ORICORE	B5	GEUT
2	Battery	JYZ G	451215	Accessory
3	C PC	APPLE	A1465	A.E
4	Control box	AIROHA	N/A	A.E
5	IPOD	APPLE	A1367	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	USB Cable	N/A	0.3m unshielded	Accessory

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Report No.: AGC00124180601FE03 Page 9 of 65

#### **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**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
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	МХТ	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019

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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 6 6	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)	2
0.490 ~ 1.705	30	24000/F(kHz)	E
1.705 ~ 30	30	30	E The Column Column
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	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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Report No.: AGC00124180601FE03 Page 13 of 65

#### 9.2. MEASUREMENT PROCEDURE

- 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)
- 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)
- 3. 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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Report No.: AGC00124180601FE03 Page 14 of 65

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

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

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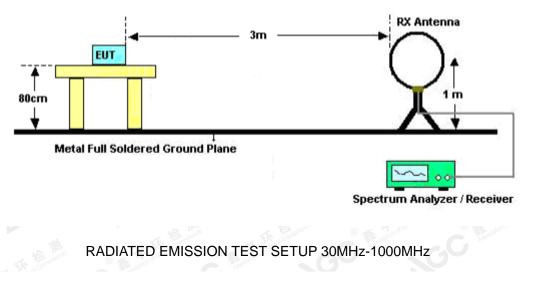


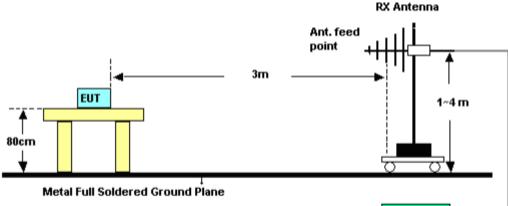


Report No.: AGC00124180601FE03 Page 15 of 65

#### 9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz





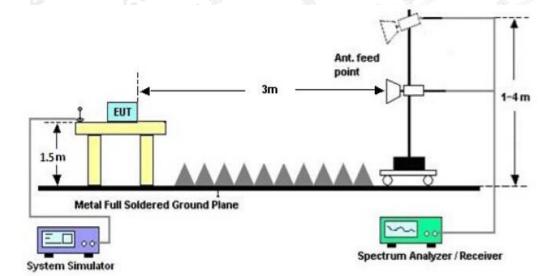
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Spectrum Analyzer / Receiver



Report No.: AGC00124180601FE03 Page 16 of 65



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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Report No.: AGC00124180601FE03 Page 17 of 65

9.4. TEST RESULT FOR BR/EDR (Worst modulation: GFSK)

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

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

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Report No.: AGC00124180601FE03 Page 18 of 65

## 66.9 dBuV/m Limit: Margin: Ŷ 27 -13 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

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

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

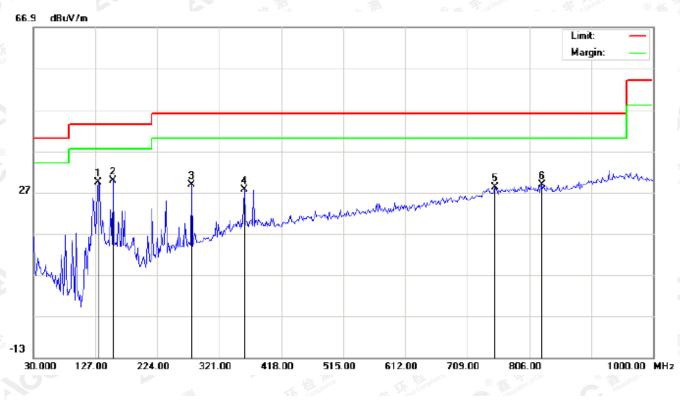
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		122.1500	14.92	6.86	21.78	43.50	-21.72	peak			
2		154.4832	11.73	11.67	23.40	43.50	-20.10	peak			
3		369.5000	4.21	18.87	23.08	46.00	-22.92	peak			
4		578.0500	5.20	23.18	28.38	46.00	-17.62	peak			
5		804.3832	1.63	27.32	28.95	46.00	-17.05	peak			
6	*	949.8833	2.66	30.00	32.66	46.00	-13.34	peak			

**RESULT: PASS** 

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Report No.: AGC00124180601FE03 Page 19 of 65



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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB	1	cm	degree	
1		131.8500	17.69	11.80	29.49	43.50	-14.01	peak			
2	*	154.4832	14.55	15.29	29.84	43.50	-13.66	peak			
3		277.3500	14.16	14.73	28.89	46.00	-17.11	peak			
4		359.8000	8.72	18.80	27.52	46.00	-18.48	peak			
5		752.6500	1.57	26.67	28.24	46.00	-17.76	peak			
6		825.4000	1.53	27.31	28.84	46.00	-17.16	peak			

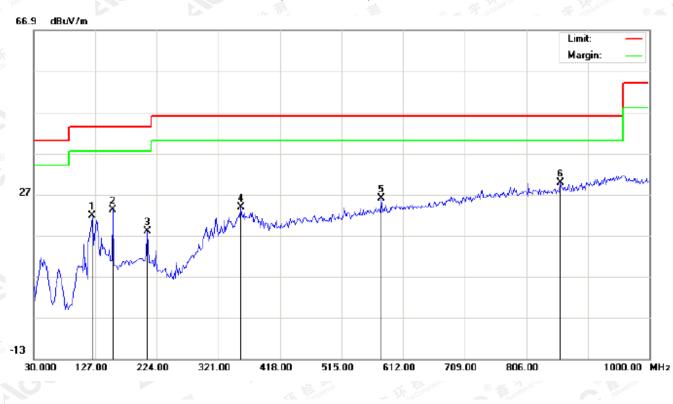
#### **RESULT: PASS**

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)-MIDDLE CHANNEL-HORIZONTAL

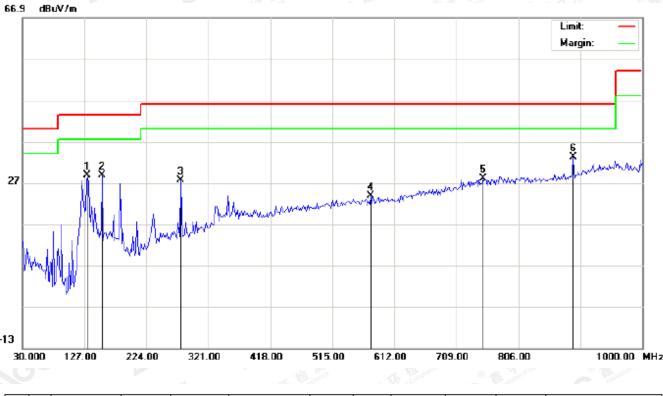
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
,		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Γ	1		122.1500	14.95	6.86	21.81	43.50	-21.69	peak			
	2		154.4832	11.46	11.67	23.13	43.50	-20.37	peak			
Γ	3		209.4500	6.87	11.04	17.91	43.50	-25.59	peak			
Γ	4		356.5667	5.09	18.78	23.87	46.00	-22.13	peak			
Γ	5		578.0500	2.87	23.18	26.05	46.00	-19.95	peak			
	6	*	859.3500	2.16	27.55	29.71	46.00	-16.29	peak			

**RESULT: PASS** 

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Report No.: AGC00124180601FE03 Page 21 of 65



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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		131.8500	16.94	11.80	28.74	43.50	-14.76	peak			
2		154.4832	13.59	15.29	28.88	43.50	-14.62	peak			
3		277.3500	12.95	14.73	27.68	46.00	-18.32	peak			
4		574.8167	1.26	22.60	23.86	46.00	-22.14	peak			
5		751.0333	1.32	26.64	27.96	46.00	-18.04	peak			
6	*	891.6833	4.91	28.39	33.30	46.00	-12.70	peak			

#### **RESULT: PASS**

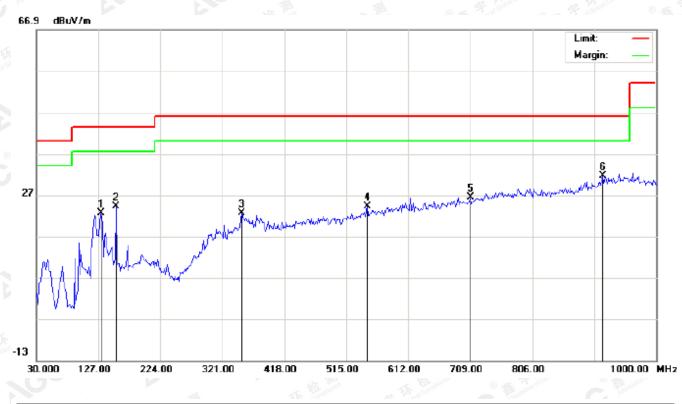
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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Report No.: AGC00124180601FE03 Page 22 of 65



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

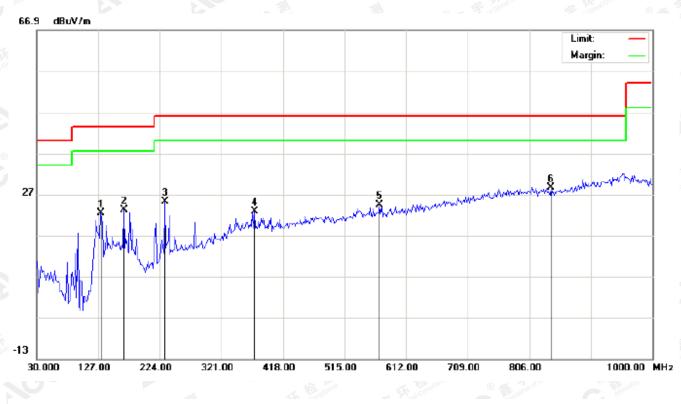
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
ſ	1		131.8500	11.27	11.39	22.66	43.50	-20.84	peak			
	2		154.4832	12.44	11.67	24.11	43.50	-19.39	peak			
	3		351.7167	3.84	18.75	22.59	46.00	-23.41	peak			
	4		547.3333	1.82	22.41	24.23	46.00	-21.77	peak			
	5		709.0000	0.97	25.47	26.44	46.00	-19.56	peak			
	6	*	915.9333	2.49	29.05	31.54	46.00	-14.46	peak			

**RESULT: PASS** 

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Report No.: AGC00124180601FE03 Page 23 of 65



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

No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		131.8500	10.59	11.80	22.39	43.50	-21.11	peak			
2		167.4167	8.39	14.86	23.25	43.50	-20.25	peak			
3		232.0833	13.11	12.14	25.25	46.00	-20.75	peak			
4		372.7333	3.87	18.89	22.76	46.00	-23.24	peak			
5		569.9667	1.78	22.58	24.36	46.00	-21.64	peak			
6	*	839.9500	1.31	27.31	28.62	46.00	-17.38	peak			

#### **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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Report No.: AGC00124180601FE03 Page 24 of 65

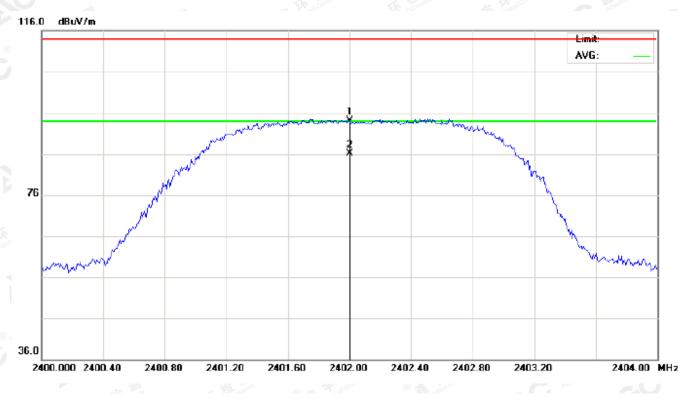
#### **RADIATED EMISSION ABOVE 1GHz**

FOR BR/EDR

(Worst modulation: GFSK)

#### 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	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2402.000	83.81	10.32	94.13	114.00	-19.87	peak			
2	*	2402.000	75.88	10.32	86.20	94.00	-7.80	AVG	100	168	

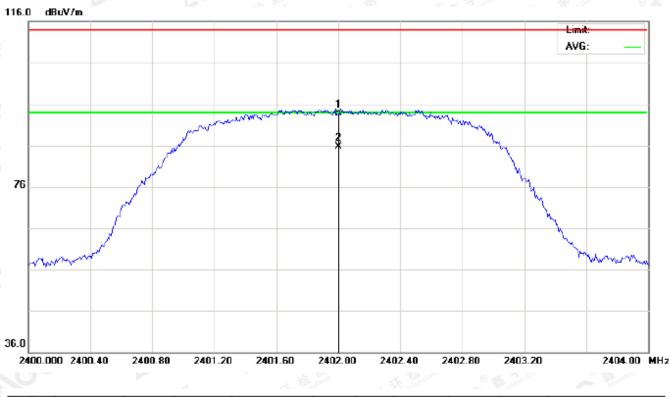
#### **RESULT: PASS**

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Report No.: AGC00124180601FE03 Page 25 of 65



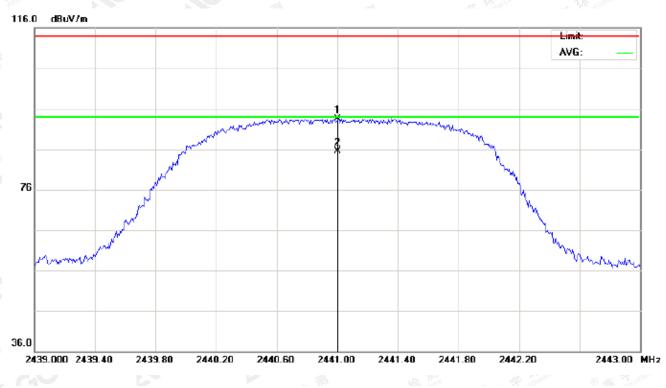
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Γ	1		2402.000	83.35	10.32	93.67	114.00	-20.33	peak			
	2	*	2402.000	75.40	10.32	85.72	94.00	-8.28	AVG	100	165	

**RESULT: PASS** 

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

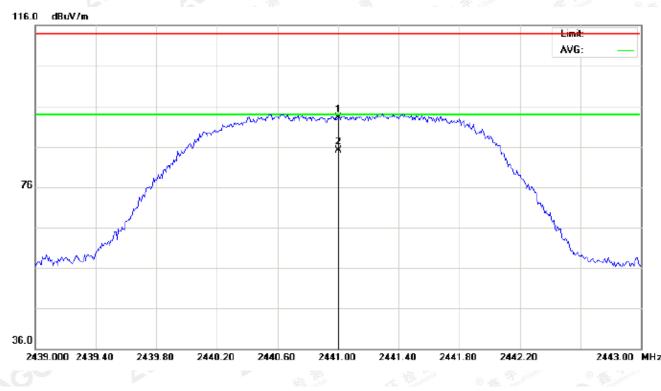
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2441.000	83.16	10.36	93.52	114.00	-20.48	peak			
2	*	2441.000	75.19	10.36	85.55	94.00	-8.45	AVG	100	166	

**RESULT: PASS** 

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

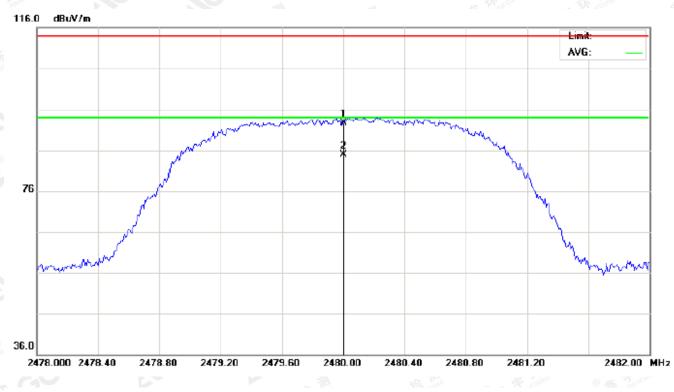
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	82.69	10.36	93.05	114.00	-20.95	peak			
2	*	2441.000	74.74	10.36	85.10	94.00	-8.90	AVG	100	304	

**RESULT: PASS** 

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

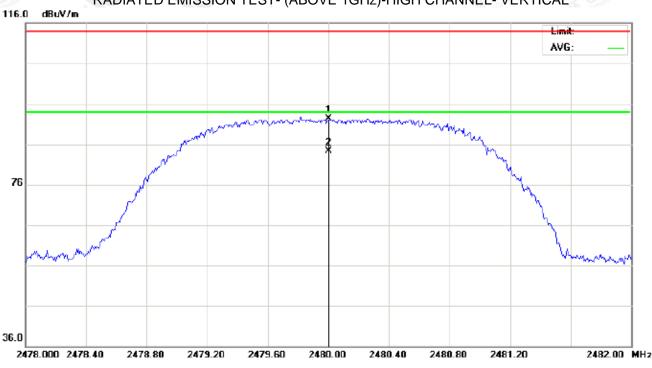
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm degree		
1		2480.000	82.33	10.41	92.74	114.00	-21.26	peak			
2	*	2480.000	74.40	10.41	84.81	94.00	-9.19	AVG	100	163	

**RESULT: PASS** 

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## ACC 整字环检测 Attestation of Global Compliance



RADIATED EMISSION TEST- (ABOVE	1GH7)-HIGH CHANNEL - VERTICAL
RADIATED ENIOSION TEST (ADOVE	

N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2480.000	81.83	10.41	92.24	114.00	-21.76	peak			
	2	*	2480.000	73.88	10.41	84.29	94.00	-9.71	AVG	100	301	

#### **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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## Actestation of Global Compliance

Field strength of the fundamental signal

#### 1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	83.81	10.32	94.13	114	-19.87	Horizontal	
2402	83.35	10.32	93.67	114	-20.33	Vertical	
2441	83.16	10.36	93.52	114 🐋	-20.48	Horizontal	
2441	82.69	10.36	93.05	114	-20.95	Vertical	
2480	82.33	10.41	92.74	114	-21.26	Horizontal	
2480	81.83	10.41	92.24	114	-21.76	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.88	10.32	86.20	94	-7.80	Horizontal	
2402	75.40	10.32	85.72	94	-8.28	Vertical	
2441	75.19	10.36	85.55	94	-8.45	Horizontal	
2441	74.74	10.36	85.10	94	-8.90	Vertical	
2480	74.40	10.41	84.81	94	-9.19	Horizontal	
2480	73.88	10.41	84.29	94	-9.71	Vertical	

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#### Report No.: AGC00124180601FE03 Page 31 of 65

#### 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	83.46	10.32	93.78	114	-20.22	Horizontal	
2402	82.88	10.32	93.20	114	-20.80	Vertical	
2441	82.74	10.36	93.10	114	-20.90	Horizontal	
2441	82.20	10.36	92.56	114	-21.44 👝	Vertical	
2480	81.95	10.41	92.36	114	-21.64	Horizontal	
2480	81.41	10.41	91.82	114	-22.18	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.44	10.32	85.76	94	-8.24	Horizontal	
2402	75.05	10.32	85.37	94	-8.63	Vertical	
2441	74.86	10.36	85.22	94	-8.78	Horizontal	
2441	74.39	10.36	84.75	94	-9.25	Vertical	
2480	74.01	10.41	84.42	94	-9.58	Horizontal	
2480	73.38	10.41	83.79	94	-10.21	Vertical	

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#### Report No.: AGC00124180601FE03 Page 32 of 65

#### 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	83.02	10.32	93.34	114	-20.66	Horizontal	
2402	82.42	10.32	92.74	114	-21.26	Vertical	
2441	82.43	10.36	92.79	114	-21.21	Horizontal	
2441	81.80	10.36	92.16	114	-21.84 👝	Vertical	
2480	81.61	10.41	92.02	114	-21.98	Horizontal	
2480	80.95	10.41	91.36	114	-22.64	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.05	10.32	85.37	94	-8.63	Horizontal	
2402	74.68	10.32	85.00	94	-9.00	Vertical	
2441	74.40	10.36	84.76	94	-9.24	Horizontal	
2441	73.89	10.36	84.25	94	-9.75	Vertical	
2480	73.68	10.41	84.09	94	-9.91	Horizontal	
2480	73.02	10.41	83.43	94	-10.57	Vertical	

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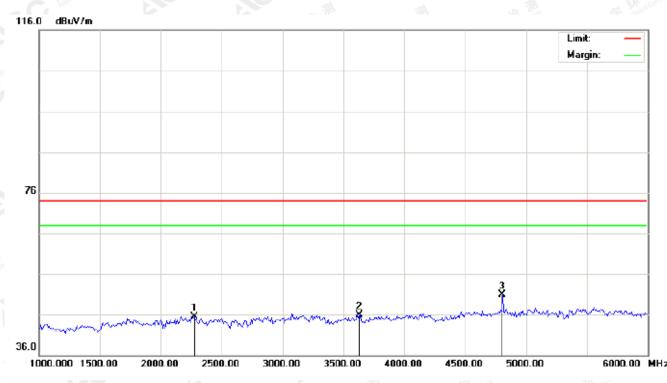
Report No.: AGC00124180601FE03 Page 33 of 65

#### FOR BR/EDR

#### (Worst modulation: GFSK)

#### 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	dBu∀	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1		2275.000	35.36	10.18	45.54	74.00	-28.46	peak			
2		3633.333	32.94	12.93	45.87	74.00	-28.13	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

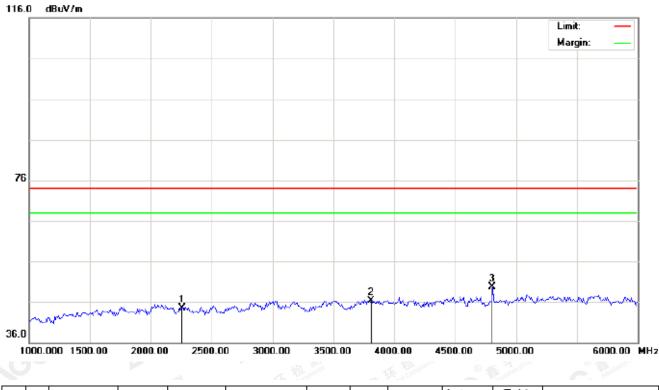
#### **RESULT: PASS**

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Report No.: AGC00124180601FE03 Page 34 of 65



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

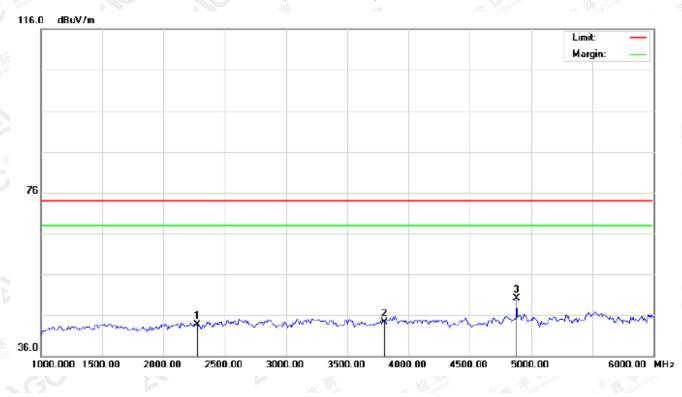
	No.	Mk	Freq. MHz	Reading	Factor	Measurement	Limit	Over	Detector		Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	ree
	1		2258.333	34.42	10.16	44.58	74.00	-29.42	peak			
	2		3808.333	32.37	14.01	46.38	74.00	-27.62	peak			
	3	*	4804.000	42.05	7.69	49.74	74.00	-24.26	peak			

**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		Comment
	-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2275.000	33.49	10.18	43.67	74.00	-30.33	peak			
2		3800.000	30.32	13.96	44.28	74.00	-29.72	peak			
3	*	4882.000	42.16	7.89	50.05	74.00	-23.95	peak			

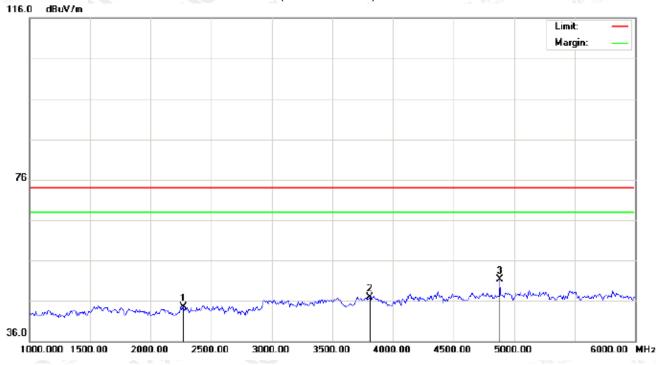
**RESULT: PASS** 

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Report No.: AGC00124180601FE03 Page 36 of 65



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

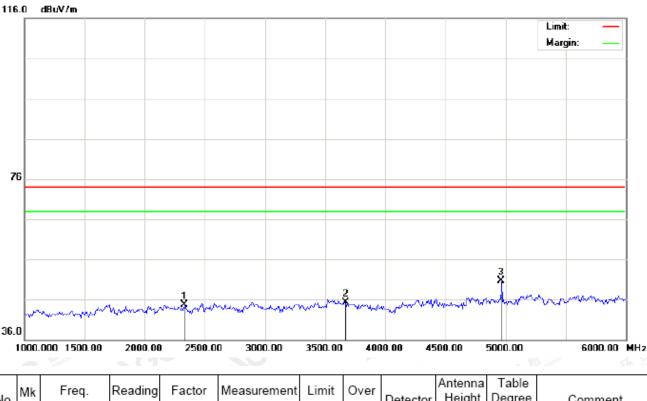
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
1		2266.667	34.33	10.17	44.50	74.00	-29.50	peak				
2		3808.333	32.99	14.01	47.00	74.00	-27.00	peak				đ
3	*	4882.000	43.39	7.89	51.28	74.00	-22.72	peak				8

**RESULT: PASS** 

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

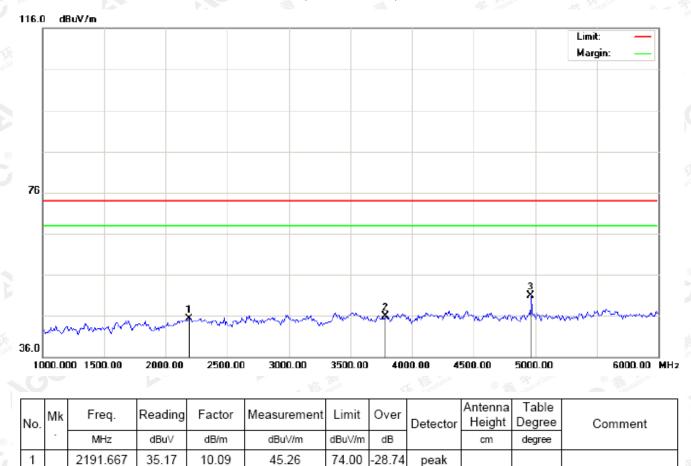
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2333.333	34.38	10.25	44.63	74.00	-29.37	peak			
2		3666.667	32.12	13.14	45.26	74.00	-28.74	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

**RESULT: PASS** 

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

### **RESULT: PASS**

3783.333

4960.000

32.13

42.91

2

3

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

13.86

8.09

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

45.99

51.00

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

74.00

74.00

-28.01

-23.00

peak

peak

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Report No.: AGC00124180601FE03 Page 39 of 65

# **10. BAND EDGE EMISSION**

# 10.1. MEASUREMENT PROCEDURE

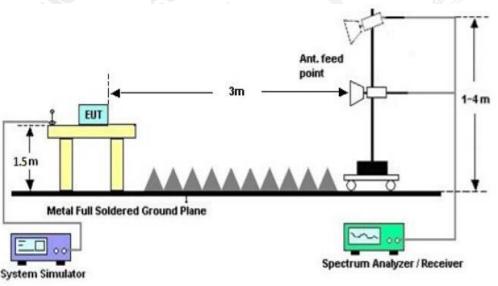
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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 fr	equency(MH	z)	Stop frequency(MHz)				
The the second	2200	All The state	nce C Frank	2405	S		
Constant of Good	2478	C Attestation of Glass	SC "	2500			

#### 10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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#### **10.3 RADIATED TEST RESULT**

#### FOR BR/EDR

#### (Worst modulation: GFSK)

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



74.00

74.00

74.00

74.00

-31.19

-21.71

20.21

12.29

peak

peak

peak

AVG

100

167

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2

3

4

5 | X

2390.000

2400.000

2402.000

2402.000

32.50

41.97

83.89

75.97

10.31

10.32

10.32

10.32

42.81

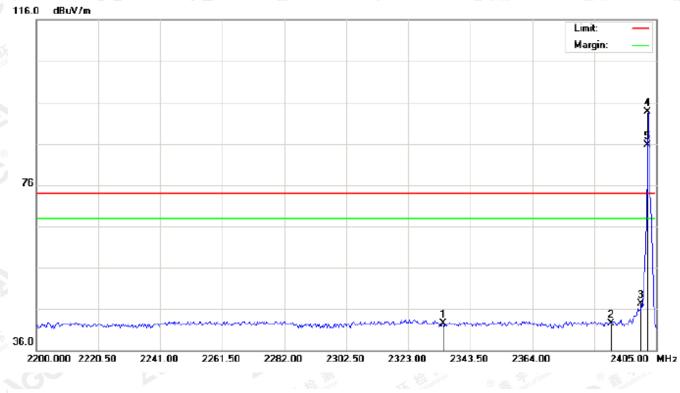
52.29

94.21

86.29



Report No.: AGC00124180601FE03 Page 41 of 65



# TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

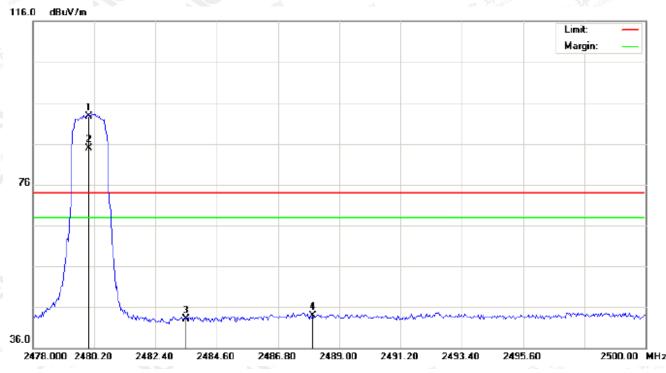
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2334.616	32.22	10.25	42.47	74.00	-31.53	peak			
2		2390.000	32.21	10.31	42.52	74.00	-31.48	peak			
3		2400.000	37.06	10.32	47.38	74.00	-26.62	peak			
4	*	2402.000	83.42	10.32	93.74	74.00	19.74	peak			
5	Х	2402.000	75.47	10.32	85.79	74.00	11.79	AVG	100	309	

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Report No.: AGC00124180601FE03 Page 42 of 65



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

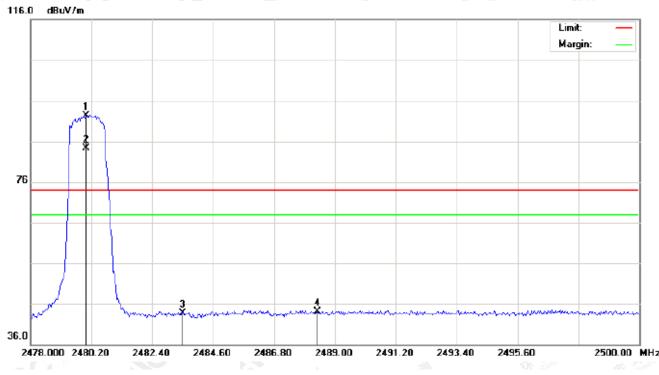
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
, [	1	*	2480.000	82.39	10.41	92.80	74.00	18.80	peak			
	2	Х	2480.000	74.48	10.41	84.89	74.00	10.89	AVG	100	169	
ſ	3		2483.500	32.69	10.41	43.10	74.00	-30.90	peak			
	4		2488.047	33.49	10.42	43.91	74.00	-30.09	peak			

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Report No.: AGC00124180601FE03 Page 43 of 65



# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.89	10.41	92.30	74.00	18.30	peak			
2	Х	2480.000	73.96	10.41	84.37	74.00	10.37	AVG	100	306	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2488.377	33.71	10.42	44.13	74.00	-29.87	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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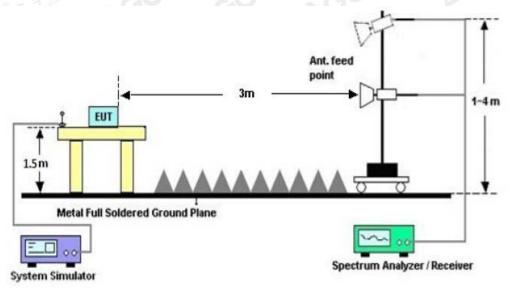
#### Report No.: AGC00124180601FE03 Page 44 of 65

# 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  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  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**

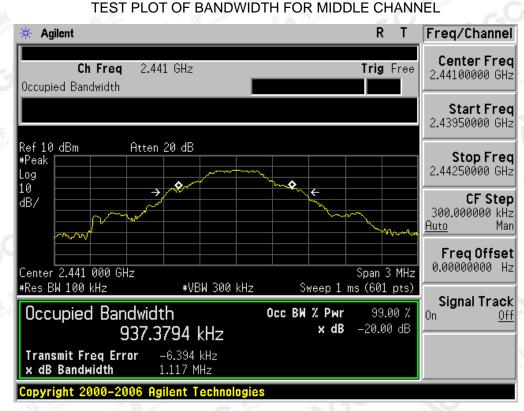
# FOR BR/EDR

je.	BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
			Measure	ement Result					
	Applicable Limits		Descrit						
			99%OBW (MHz)	-20dB BW(MHz)	Result				
Glot	al Comment	Low Channel	0.944	1.114	PASS				
	N/A	Middle Channel	0.937	1.117	PASS				
	The second second	High Channel	0.952	1.098	PASS				

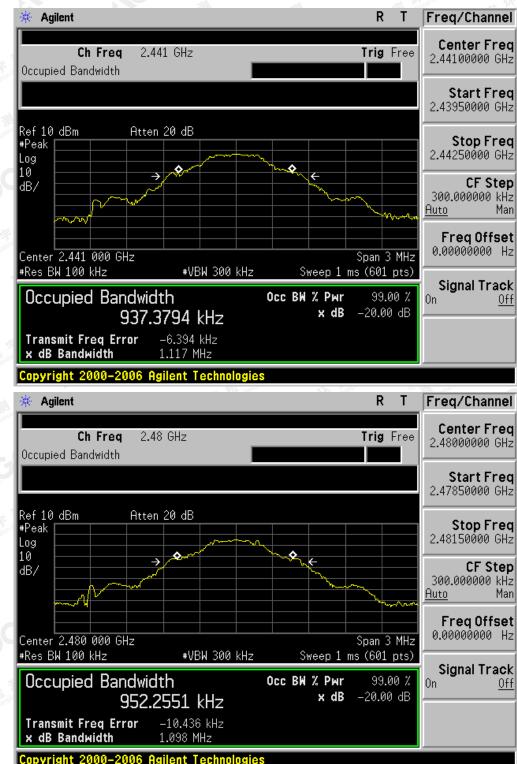
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# TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	OOTH 2MBPS LIN	MITS AND MEASU	REMENT RESULT		
		Measure	ement Result		
Applicable Limits		Desself			
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The the second second	Low Channel	1.188	1.306	PASS	
N/A	Middle Channel	1.192	1.317	PASS	
	High Channel	1.145	1.315	PASS	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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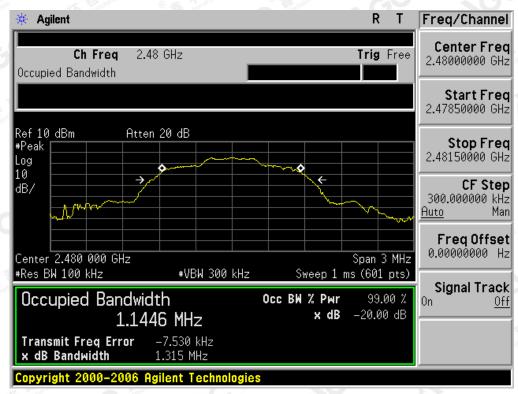
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# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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BLUET	OOTH 3MBPS LIN	ITS AND MEASU	REMENT RESULT	
		Measure	ement Result	
Applicable Limits				
		99%OBW (MHz)	-20dB BW(MHz)	Result
The the and the the the	Low Channel	1.180	1.347	PASS
N/A	Middle Channel	1.217	1.386	PASS
	High Channel	1.197	1.343	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



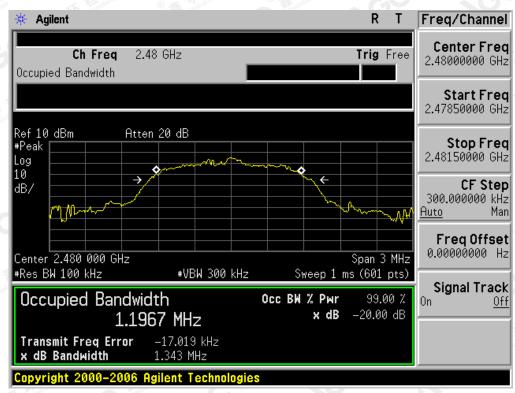
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# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### 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

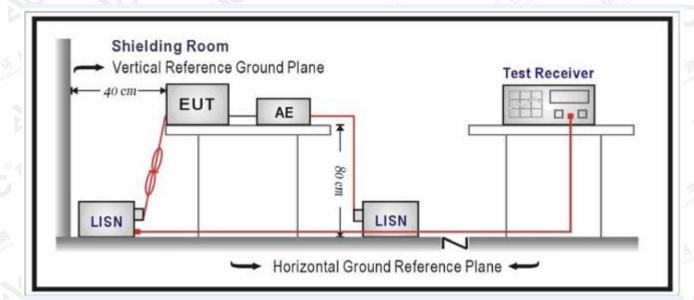
C	Maximum RF Line Voltage						
Frequency	Q.P.( dBuV)	Average( dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	o 56	46					
5MHz~30MHz	60	50					

Note:

1. The lower limit shall apply at the transition frequency.

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

# 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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Report No.: AGC00124180601FE03 Page 52 of 65

## 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.
- 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.
- 3. 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.

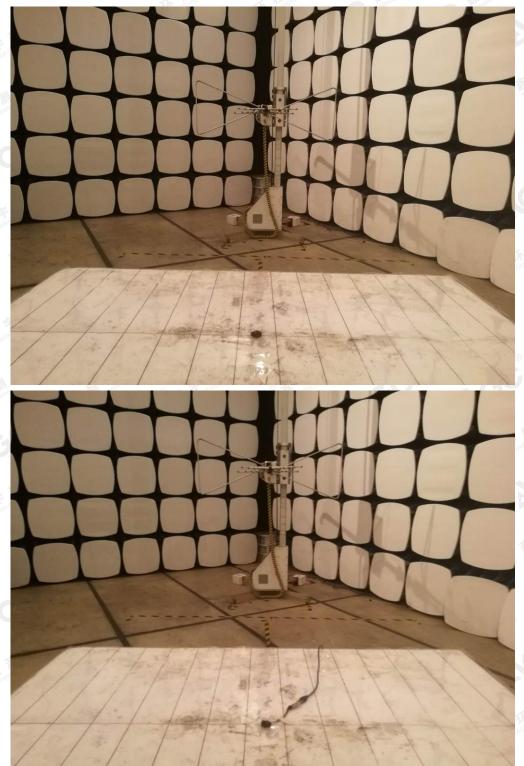
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Report No.: AGC00124180601FE03 Page 53 of 65

APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP

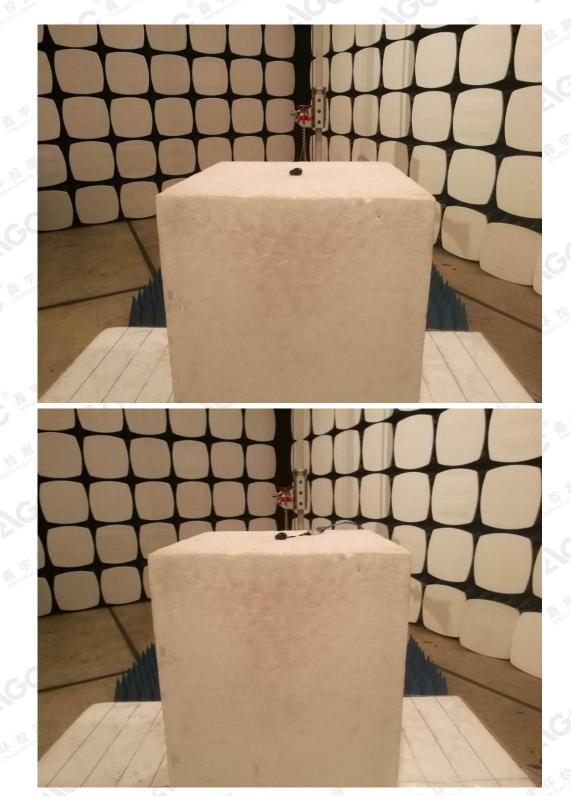


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Report No.: AGC00124180601FE03 Page 54 of 65



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Report No.: AGC00124180601FE03 Page 55 of 65

# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



TOP VIEW OF EUT Ó 0, 

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#### Report No.: AGC00124180601FE03 Page 56 of 65

BOTTOM VIEW OF EUT 

#### FRONT VIEW OF EUT



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Report No.: AGC00124180601FE03 Page 57 of 65

# BACK VIEW OF EUT



#### LEFT VIEW OF EUT



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Report No.: AGC00124180601FE03 Page 58 of 65

# **RIGHT VIEW OF EUT**



Left VIEW OF EUT (PORT)



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#### Report No.: AGC00124180601FE03 Page 59 of 65

#### 0 90 80 20 60 50 40 30 20 0 10 04 08 06 01 50 30 0.8 06 001 01 50 0.7

**OPEN VIEW OF EUT** 

**VIEW OF BATTERY** 



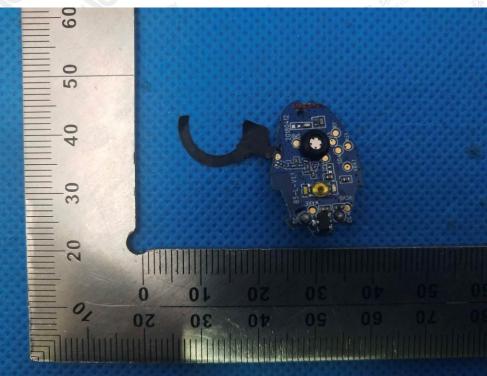
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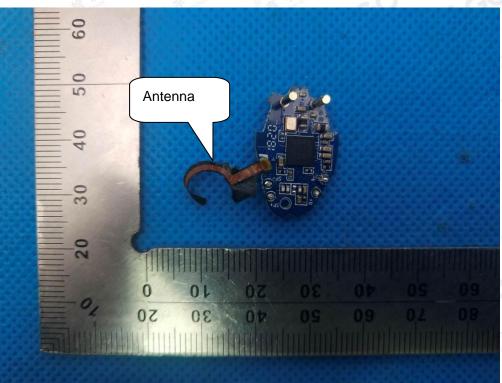


Report No.: AGC00124180601FE03 Page 60 of 65

# INTERNAL VIEW OF EUT-1



#### **INTERNAL VIEW OF EUT-2**



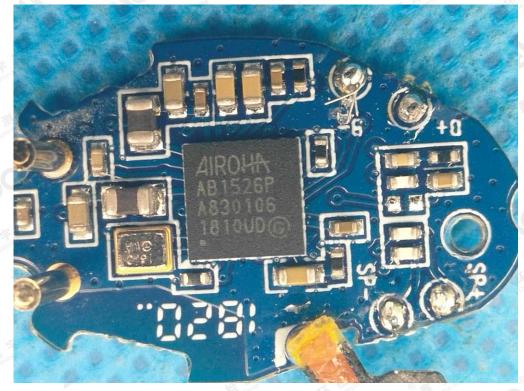
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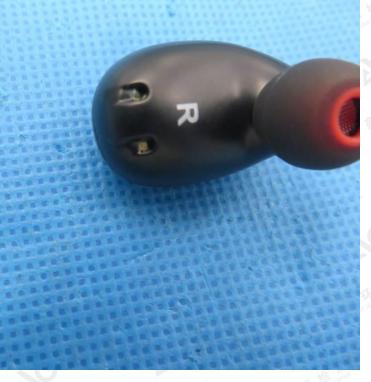


Report No.: AGC00124180601FE03 Page 61 of 65

# **INTERNAL VIEW OF EUT-3**



Right VIEW OF EUT (PORT)



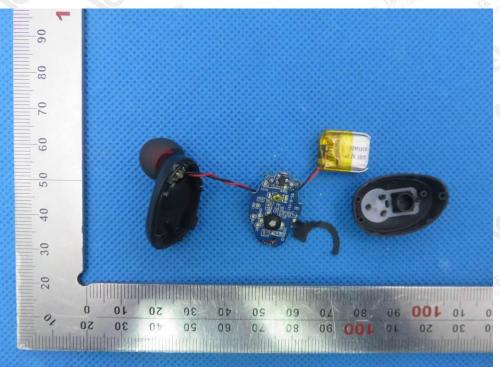
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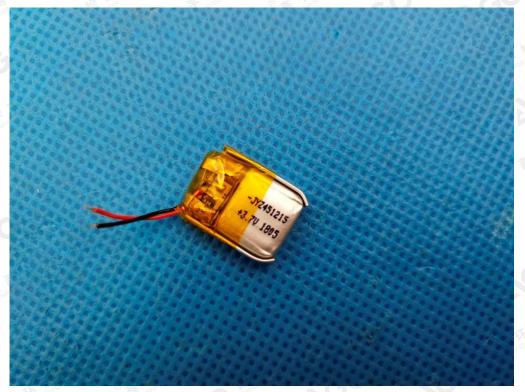


#### Report No.: AGC00124180601FE03 Page 62 of 65

**OPEN VIEW OF EUT** 



#### **VIEW OF BATTERY**



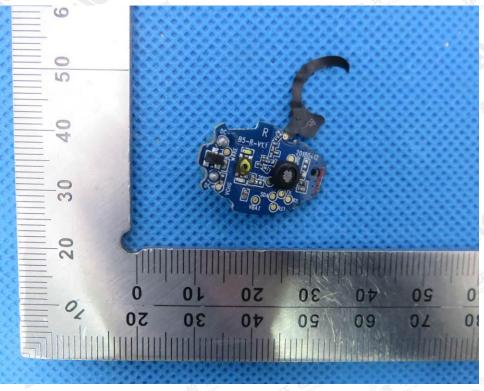
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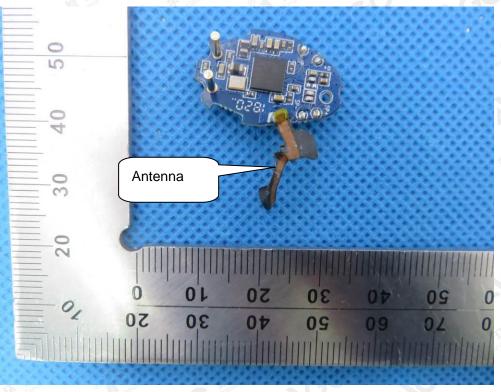


Report No.: AGC00124180601FE03 Page 63 of 65

# INTERNAL VIEW OF EUT-1



#### **INTERNAL VIEW OF EUT-2**



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Report No.: AGC00124180601FE03 Page 64 of 65

# INTERNAL VIEW OF EUT-3



Charging Dock VIEW OF EUT (Port)-1



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Report No.: AGC00124180601FE03 Page 65 of 65

# VIEW OF EUT (Port)-2



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