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# FCC Test Report

# Report No.: AGC01559180525FE03

FCC ID	30000 (0	2AANZBTCAT
APPLICATION PURPO	SE :	Original Equipment
PRODUCT DESIGNATI	ON :	WIRELESS HEADPHONES
BRAND NAME	:	НҮРЕ
MODEL NAME	l N <sup>CE</sup> (C) of	HY-EU-BTCAT-BLU, HY-EU-BTCAT-PNK
CLIENT	GC!	DGL Group LTD.
DATE OF ISSUE	- The	Jun. 06, 2018
STANDARD(S) TEST PROCEDURE(S)	TA Compliant	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 Version	Revise Time	Issued Date	Valid Version	Notes		
V1.0		Jun. 06, 2018	Valid	Initial release		

#### **Report Revise Record**

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

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Applicant	DGL Group LTD.
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837
Manufacturer	DGL Group LTD.
Address	195 Raritan Center Parkway Edison, New Jersey United States 08837
Product Designation	WIRELESS HEADPHONES
Brand Name	НҮРЕ
Test Model	HY-EU-BTCAT-BLU
Series Model	HY-EU-BTCAT-PNK
Difference description	All the same except for the mode name and appearance color.
Date of test	May 17, 2018 to May 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.

Tested By

Zhang Harry

Henry Zhang(Zhang Zhuorui) N

May 29, 2018

we chang

Reviewed By

Cool Cheng(Cheng Mengguo) Jun. 06, 2018

owest in

Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

Jun. 06, 2018

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#### 2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical	description	of EUT is	described	as following
/ Thigor toornhou	accomption		accomboa	uo rono ming

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
RF Output Power	-1.22dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2 • State of the state of th
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	-0.58dBi
Power Supply	DC 3.7V by battery
Alle	nly used for charging and can't be used to transfer data with PC. Thas two kinds of color samples, all recorded in the test report.

#### 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
	0 F Internet	2402MHz
The text constance @		2403MHz
C C Mandana CC		
Ge No	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The comparts	40	2442 MHz
	77	2479 MHz
E The the compares	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

		Attestar
NO.	TEST MODE DESCRIPTION	
Contract Contract	Low channel GFSK	a d
2	Middle channel GFSK	L'impliance
3	High channel GFSK	~ G <sup>C</sup>
4 K	Low channel π /4-DQPSK	
® 5 m d com	Middle channel π /4-DQPSK	下版书
6	High channel π /4-DQPSK	For Global
7	BT Link with charging	
8	BT Link	-101

#### 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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0.0	- C			Software Sett	ting		K Kenplance	杨	-iles
œ F	CCAssist 1.5								×
	Parameter								
	MODE	TX 💌							
	Channel	0 💙	Packe	t type 1-DH1	*	Data Types	Pn9	~	
	Transmit Power	10 💌	Hop	oping OFF	~	Serial Port	COM4	<mark>~</mark>	
ор	en COM4 succeed					Г	Send configura	tion	
		ata Types: Pn9							
	ansmit Power : 10 nd configuration inf								
				Description:					
				Description.					
				1、Channel: ran	ge 0-78	, corresponding	g frequency 2.4	102GHz-2.48	OGHZ
:				2、Transmit Po	wer ran	ge 0-10, 0 is t	he minimum, m	aximum 10	
-									

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

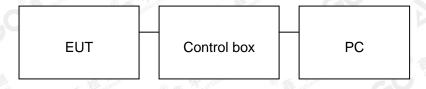
Configure 1: (Normal hopping)

EUT



Note: Owing to the EUT has own battery, testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



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

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark EUT	
The second cone	WIRELESS HEADPHONES	HYPE C	HY-EU-BTCAT-BLU		
2	Battery	JH	502030	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	GZUT	N/A	A.E	
5	USB Cable	N/A	1m unshielded	A.E	
6	USB Cable	N/A	0.3m unshielded	Accessory	
7	Aux in Cable	N/A	0.9m unshielded	Accessory	
8	IPOD G	APPLE	A1367	A.E	
9	Mobile Phone	HUAWEI	P9	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	Compliant
§15.215	Bandwidth	Compliant

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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 CONDUCTED EMISSION TEST

Equipment	EquipmentManufacturerTEST RECEIVERR&S		S/N	Cal. Date	Cal. Due	
TEST RECEIVER			101206	Jun.20, 2017	Jun.19, 2018	
LISN	LISN R&S		100086	Aug.21, 2017	Aug.20, 2018	

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

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	Clobal	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	МХТ	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087	The the stand	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 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Field Strengths 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 Could Car			
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 South States	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

- 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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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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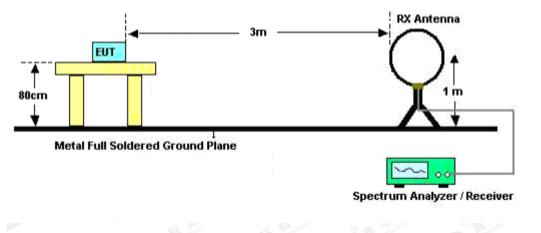




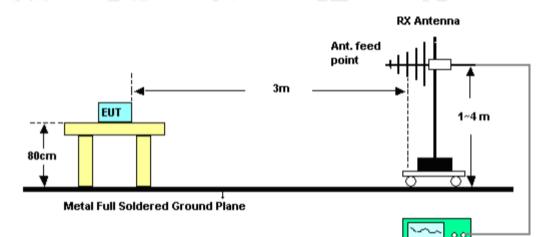
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#### 9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



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



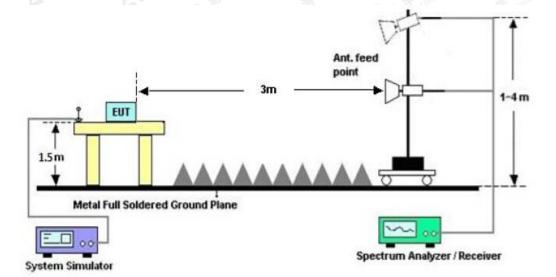
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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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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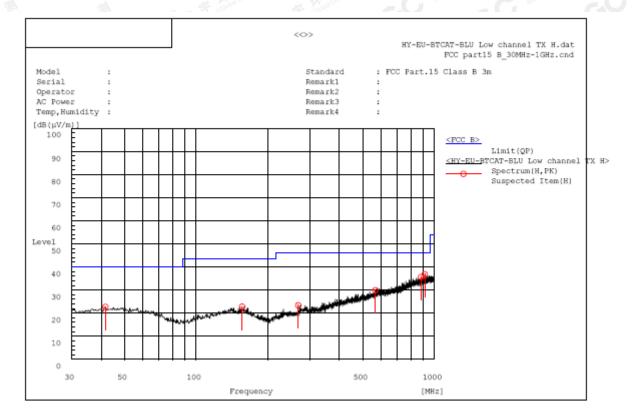


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#### **RADIATED EMISSION BELOW 1GHz**

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

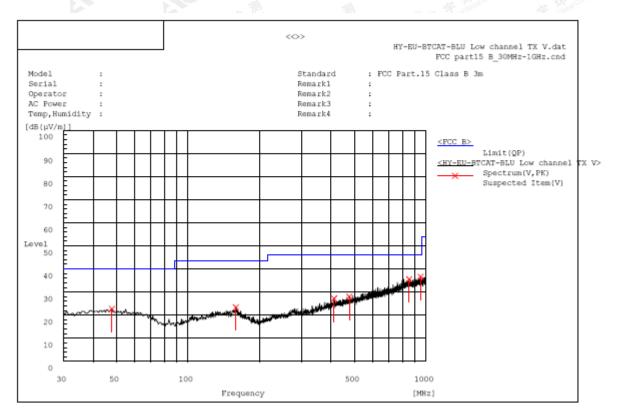


#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
41.640	Н	5.3	17.4	22.7	40.0	17.3	Pass	200.0	306.6
156.100	Н	6.2	16.6	22.8	43.5	20.7	Pass	200.0	53.0
268.620	н	6.7	16.7	23.4	46.0	22.6	Pass	200.0	270.2
565.925	Н	5.7	24.2	29.9	46.0	16.1	Pass	150.0	182.1
880.205	Н	5.7	30.0	35.7	46.0	10.3	Pass	200.0	160.1
912.215	Н	6.6	30.3	36.9	46.0	9.1	Pass	200.0	124.4

#### **RESULT: PASS**

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#### 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
47.945	v	5.6	17.2	22.8	40.0	17.2	Pass	200.0	72.7
159.010	v	6.9	16.6	23.5	43.5	20.0	Pass	100.0	192.7
411.210	v	6.0	21.2	27.2	46.0	18.8	Pass	100.0	51.2
476.685	v	5.5	22.5	28.0	46.0	18.0	Pass	150.0	106.5
851.105	v	6.0	29.6	35.6	46.0	10.4	Pass	100.0	158.4
949.560	v	6.0	30.7	36.7	46.0	9.3	Pass	150.0	178.6

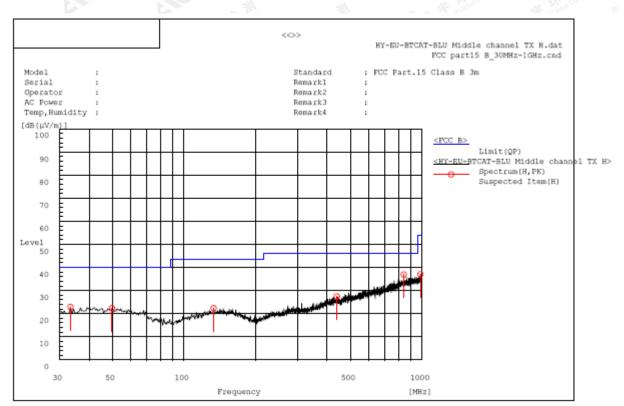
#### **RESULT: PASS**

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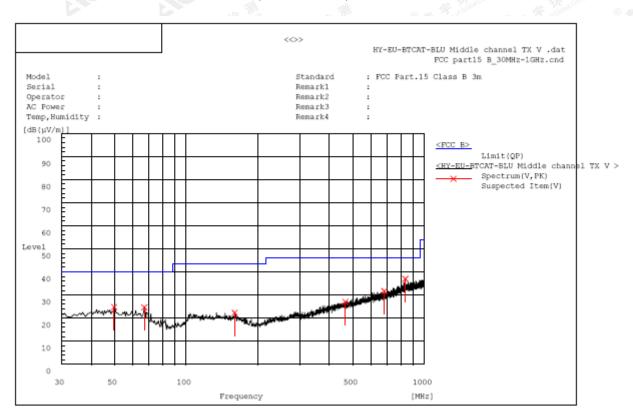
#### RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
33.395	н	7.0	15.9	22.9	40.0	17.1	Pass	150.0	72.2
49.885	н	5.3	17.1	22.4	40.0	17.6	Pass	100.0	306.2
133.305	н	6.0	16.4	22.4	43.5	21.1	Pass	100.0	234.0
439.340	Н	5.6	21.9	27.5	46.0	18.5	Pass	200.0	70.7
839.465	н	7.6	29.4	37.0	46.0	9.0	Pass	100.0	306.2
985.935	н	6.1	31.0	37.1	54.0	16.9	Pass	200.0	323.6

#### **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
49.885	v	7.8	17.1	24.9	40.0	15.1	Pass	100.0	287.9
66.860	v	9.5	15.2	24.7	40.0	15.3	Pass	100.0	287.9
159.980	v	5.8	16.6	22.4	43.5	21.1	Pass	100.0	70.1
466.500	v	4.7	22.4	27.1	46.0	18.9	Pass	200.0	91.6
679.415	v	5.8	26.0	31.8	46.0	14.2	Pass	200.0	91.6
833.645	v	7.8	29.3	37.1	46.0	8.9	Pass	100.0	252.2

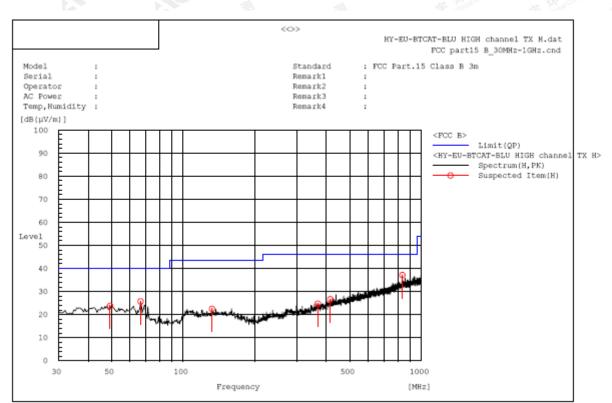
#### **RESULT: PASS**

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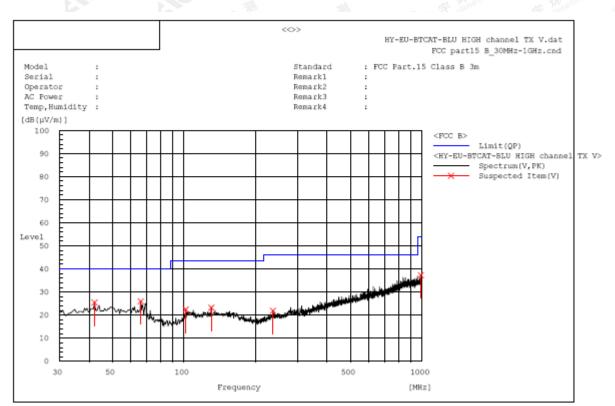
#### RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

#### 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
49.400	н	6.8	17.1	23.9	40.0	16.1	Pass	100.0	107.3
66.375	н	10.5	15.3	25.8	40.0	14.2	Pass	150.0	216.4
132.335	н	6.2	16.4	22.6	43.5	20.9	Pass	100.0	216.4
368.045	Н	5.2	19.6	24.8	46.0	21.2	Pass	100.0	253.6
415.090	Н	5.4	21.3	26.7	46.0	19.3	Pass	100.0	216.4
833.645	Н	7.9	29.3	37.2	46.0	8.8	Pass	150.0	180.7

#### **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 (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	42.125	v	8.2	17.4	25.6	40.0	14.4	Pass	150.0	72.5
	65.890	v	10.6	15.4	26.0	40.0	14.0	Pass	150.0	286.1
	101.780	v	8.9	13.6	22.5	43.5	21.0	Pass	200.0	179.2
K	130.395	v	7.0	16.3	23.3	43.5	20.2	Pass	150.0	357.5
	236.610	v	5.8	16.1	21.9	46.0	24.1	Pass	200.0	215.7
	990.300	v	6.3	31.0	37.3	54.0	16.7	Pass	200.0	215.7

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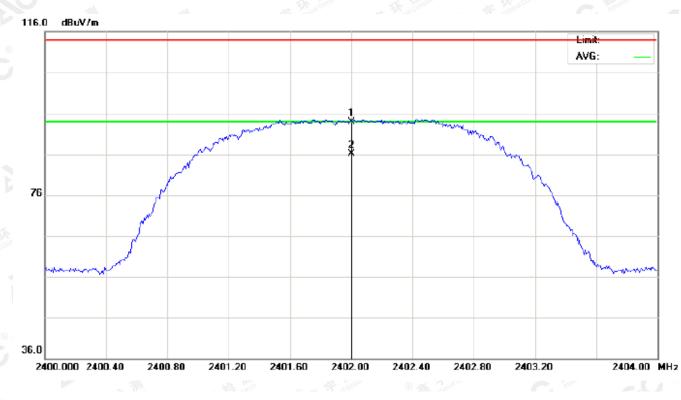
#### **RADIATED EMISSION ABOVE 1GHz**

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	dBuV/m	dBuV/m	dB		cm	degree	
ſ	1		2402.000	83.66	10.32	93.98	114.00	-20.02	peak			
Γ	2	*	2402.000	75.72	10.32	86.04	94.00	-7.96	AVG	100	255	

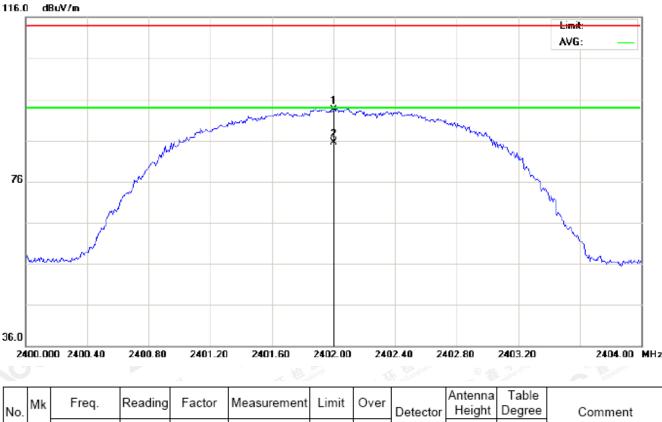
#### **RESULT: PASS**

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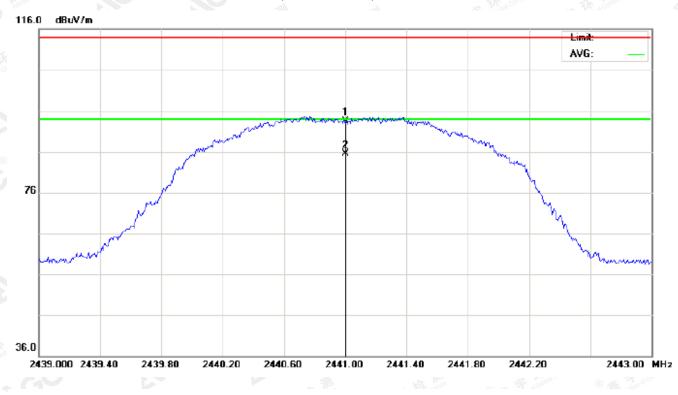
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBu∨/m	dBuV/m	dB		cm	degree	
1		2402.000	83.20	10.32	93.52	114.00	-20.48	peak			
2	*	2402.000	75.22	10.32	85.54	94.00	-8.46	AVG	100	321	

**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	dBuV/m	dB		cm	degree	
1		2441.000	83.08	10.36	93.44	114.00	-20.56	peak			
2	*	2441.000	75.12	10.36	85.48	94.00	-8.52	AVG	100	258	

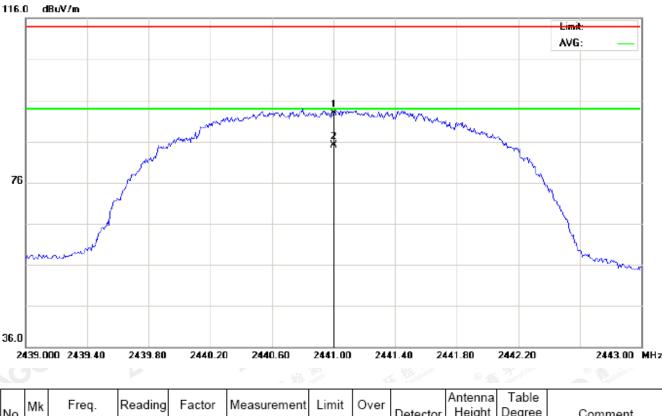
**RESULT: PASS** 

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

No	. Mł	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	-	MHz	dBu∨	dB/m	dBu∨/m	dBuV/m	dB		cm	degree		
1		2441.000	82.63	10.36	92.99	114.00	-21.01	peak				101
2	*	2441.000	74.65	10.36	85.01	94.00	-8.99	AVG	100	121		3

**RESULT: PASS** 

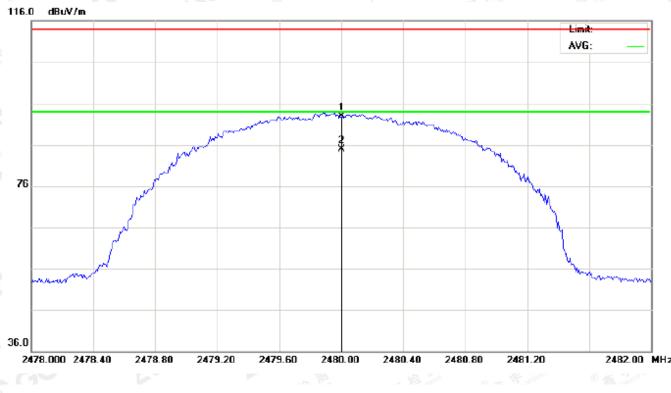
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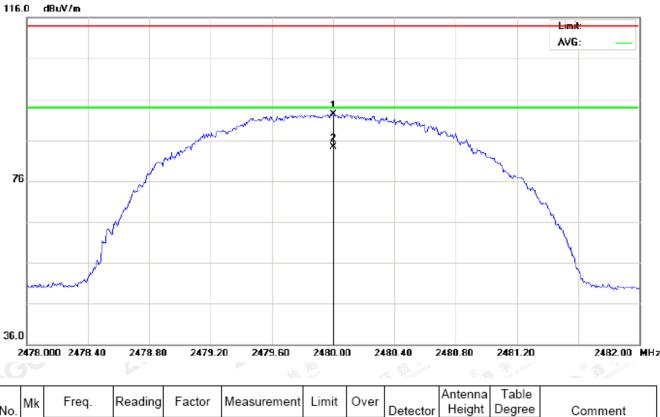
RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

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	82.42	10.41	92.83	114.00	-21.17	peak			
2	*	2480.000	74.42	10.41	84.83	94.00	-9.17	AVG	100	321	

**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	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	81.96	10.41	92.37	114.00	-21.63	peak			
2	*	2480.000	73.98	10.41	84.39	94.00	-9.61	AVG	100		

#### **RESULT: PASS**

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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

#### 1Mbps Result:

Peak value

Reading Level	Factor	Measurement	Limit	Over	Antenna
(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
83.66	10.32	93.98	114	-20.02	Horizontal
83.20	10.32	93.52	114	-20.48	Vertical
83.08	10.36	93.44	114 🐋	-20.56	Horizontal
82.63	10.36	92.99	114	-21.01	Vertical
82.42	10.41	92.83	114	-21.17	Horizontal
81.96	10.41	92.37	114	-21.63	Vertical
	Level (dBuv) 83.66 83.20 83.08 82.63 82.42	Level Factor   (dBuv) (dB/m)   83.66 10.32   83.20 10.32   83.08 10.36   82.63 10.36   82.42 10.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)83.6610.3293.9883.2010.3293.5283.0810.3693.4482.6310.3692.9982.4210.4192.83	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)83.6610.3293.9811483.2010.3293.5211483.0810.3693.4411482.6310.3692.9911482.4210.4192.83114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)83.6610.3293.98114-20.0283.2010.3293.52114-20.4883.0810.3693.44114-20.5682.6310.3692.99114-21.0182.4210.4192.83114-21.17

#### Average value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.72	10.32	86.04	94	-7.96	Horizontal	
2402	75.22	10.32	85.54	94	-8.46	Vertical	
2441	75.12	10.36	85.48	94	-8.52	Horizontal	
2441	74.65	10.36	85.01	94	-8.99	Vertical	
2480	74.42	10.41	84.83	94	-9.17	Horizontal	
2480	73.98	10.41	84.39	94	-9.61	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	83.25	10.32	93.57	114	-20.43	Horizontal
2402	82.76	10.32	93.08	114	-20.92	Vertical
2441	82.65	10.36	93.01	114	-20.99	Horizontal
2441	82.18	10.36	92.54	114	-21.46	Vertical
2480	81.96	10.41	92.37	114	-21.63	Horizontal
2480	81.52	10.41	91.93	114	-22.07	Vertical

#### Average value

Frequency	Reading Level	Factor	Factor Measurement		Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	75.28	10.32	85.60	94	-8.40	Horizontal
2402	74.78	10.32	85.10	94	-8.90	Vertical
2441	74.66	10.36	85.02	94	-8.98	Horizontal
2441	74.25	10.36	84.61	94	-9.39	Vertical
2480	73.94	10.41	84.35	94	-9.65	Horizontal
2480	73.53	10.41	83.94	94	-10.06	Vertical

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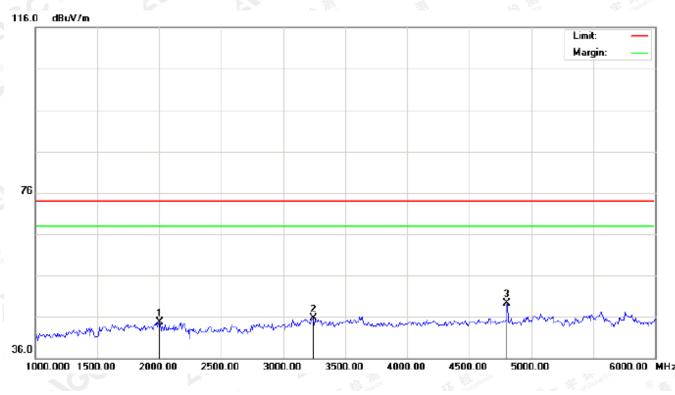
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#### FOR BR/EDR

#### (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	dBuV/m	dB		cm	degree	
Γ	1		2000.000	34.81	9.88	44.69	74.00	-29.31	peak			
ſ	2		3241.667	33.80	11.87	45.67	74.00	-28.33	peak			
	3	*	4804.000	41.71	7.69	49.40	74.00	-24.60	peak			

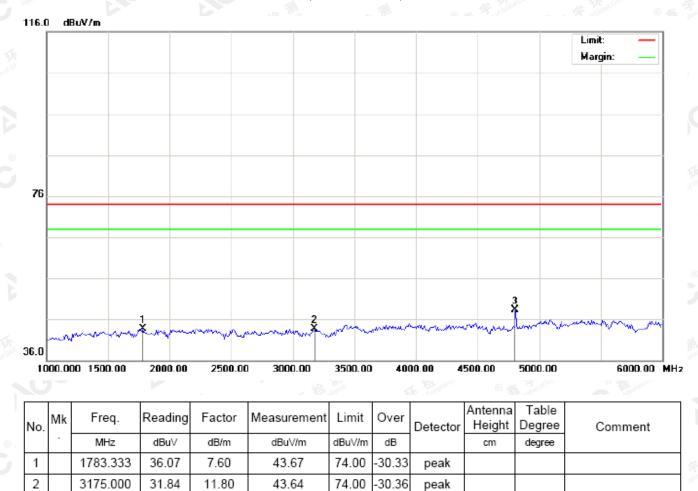
#### **RESULT: PASS**

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74.00

25.76

peak

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

**RESULT: PASS** 

4804.000

40.55

7.69

48.24

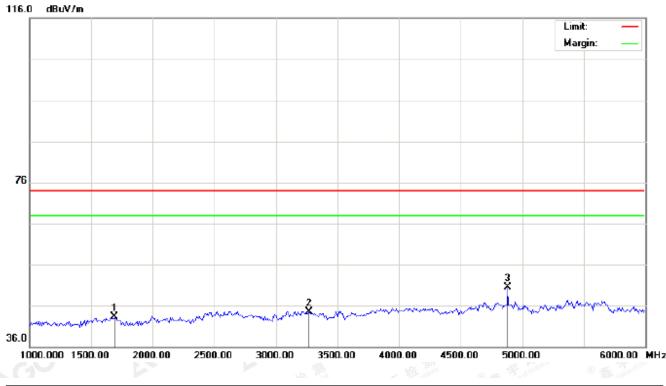
3

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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		1691.667	36.56	6.64	43.20	74.00	-30.80	peak			
2		3266.667	32.69	11.89	44.58	74.00	-29.42	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

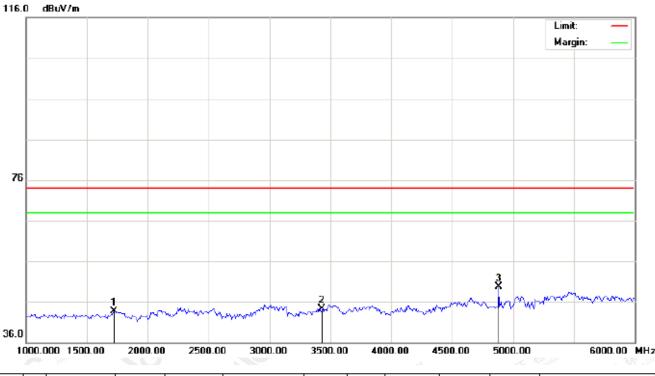
**RESULT: PASS** 

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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		1725.000	36.63	6.99	43.62	74.00	-30.38	peak			
2		3433.333	32.28	12.05	44.33	74.00	-29.67	peak			
3	*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

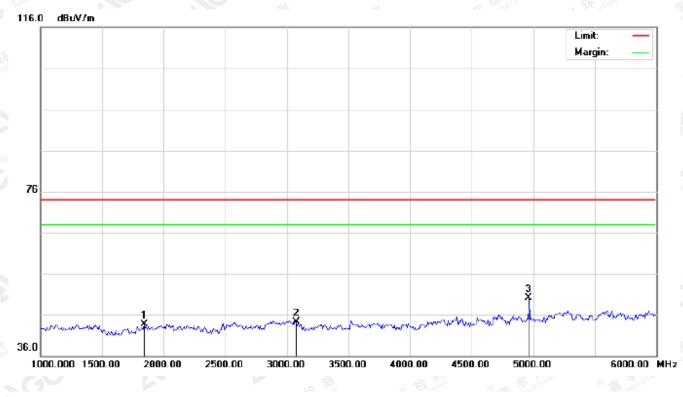
**RESULT: PASS** 

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

No.	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		1841.667	35.57	8.21	43.78	74.00	-30.22	peak			
2		3075.000	32.56	11.71	44.27	74.00	-29.73	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		Comment
	•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		1858.333	35.07	8.39	43.46	74.00	-30.54	peak			
2		3150.000	33.64	11.78	45.42	74.00	-28.58	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

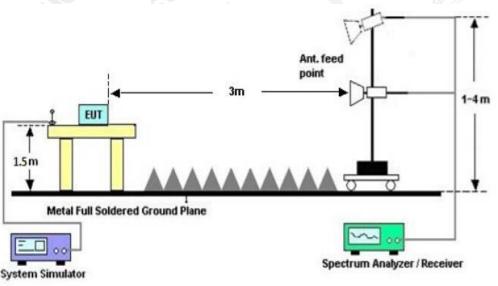
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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 frequenc	y(MHz)		Stop frequency(MH	z)
2200	The The second	not C Stratuto	2405	SC -
2478	Global C	GO	2500	
Alle				2000

#### 10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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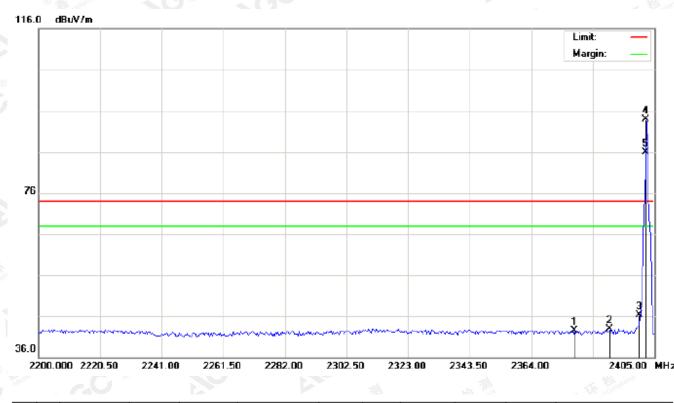
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## **10.3 RADIATED TEST RESULT**

#### FOR BR/EDR

#### (Worst modulation: GFSK)

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



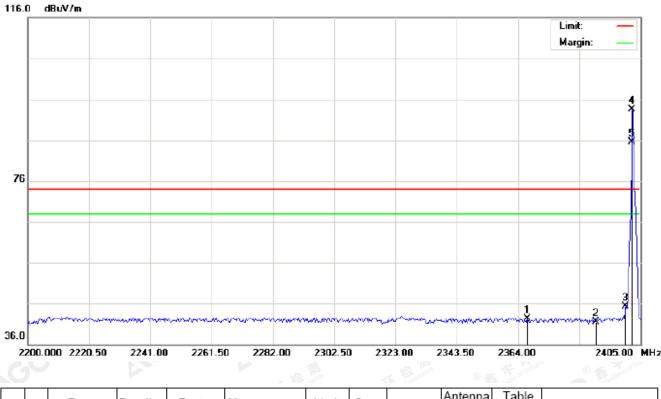
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2378.350	32.16	10.30	42.46	74.00	-31.54	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	35.97	10.32	46.29	74.00	-27.71	peak			
4	*	2402.000	83.54	10.32	93.86	74.00	19.86	peak			
5	Х	2402.000	75.61	10.32	85.93	74.00	11.93	AVG	100	247	

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

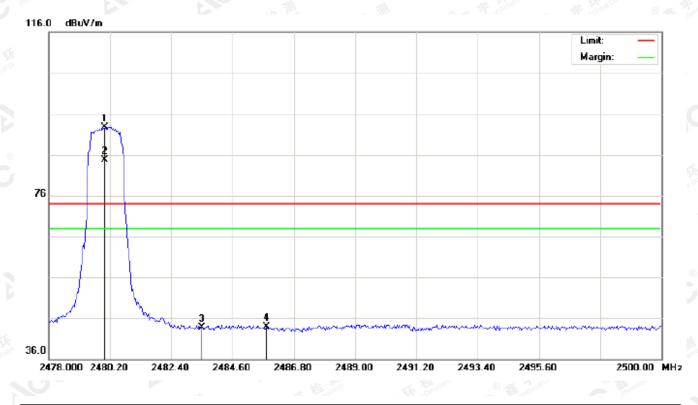
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2367.075	31.94	10.28	42.22	74.00	-31.78	peak			
2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
3		2400.000	35.06	10.32	45.38	74.00	-28.62	peak			
4	*	2402.000	83.09	10.32	93.41	74.00	19.41	peak			
5	Х	2402.000	75.10	10.32	85.42	74.00	11.42	AVG	100	157	

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

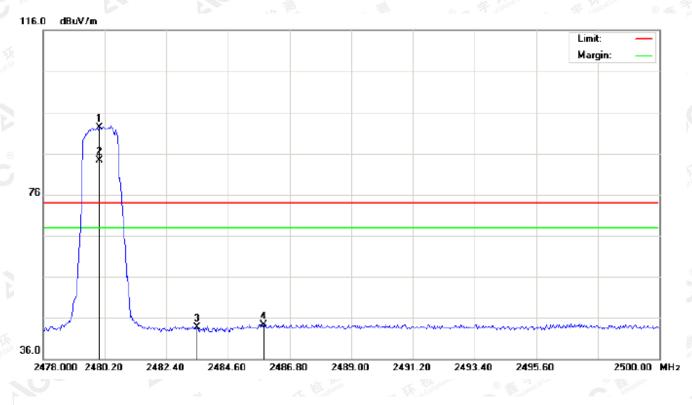
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
e.		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1	*	2480.000	82.29	10.41	92.70	74.00	18.70	peak			
	2	Х	2480.000	74.30	10.41	84.71	74.00	10.71	AVG	100	261	
	3		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
	4		2485.810	33.55	10.41	43.96	74.00	-30.04	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	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	81.84	10.41	92.25	74.00	18.25	peak			
2	Х	2480.000	73.87	10.41	84.28	74.00	10.28	AVG	100	134	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2485.883	33.81	10.41	44.22	74.00	-29.78	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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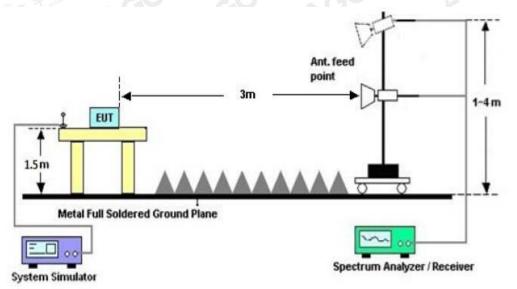
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# 11. 20DB BANDWIDTH

#### **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  $\geq$  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

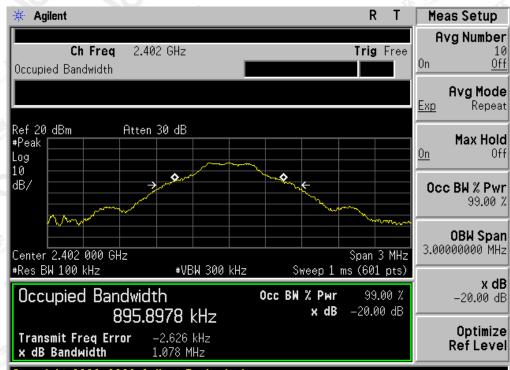


### **11.3. LIMITS AND MEASUREMENT RESULTS**

#### FOR BR/EDR

BLUET	OOTH 1MBPS LIN	ITS AND MEASU	REMENT RESULT					
		Measurement Result						
Applicable Limits		Test Data (MHz)						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
Const Comment	Low Channel	0.896	1.078	PASS				
N/A	Middle Channel	0.909	1.043	PASS				
The second second	High Channel	0.901	1.041	PASS				

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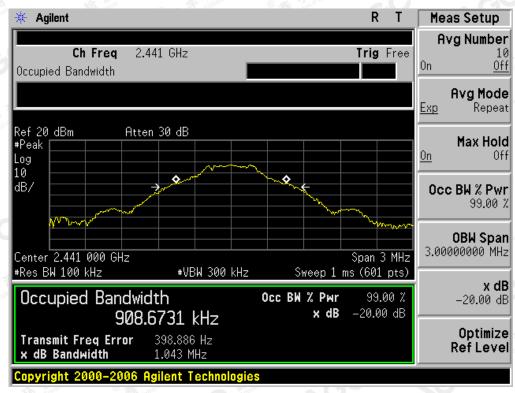


#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	OOTH 2MBPS LIN	ITS AND MEASU	REMENT RESULT						
		Measurement Result							
Applicable Limits		Desult							
		99%OBW (MHz) -20dB BW(MHz)		Result					
The the the second	Low Channel	1.210	1.370	PASS					
N/A	Middle Channel	1.212	1.365	PASS					
	High Channel	1.224	1.379	PASS					

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



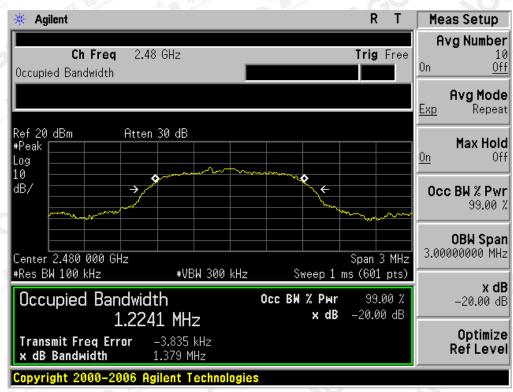
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# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### 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

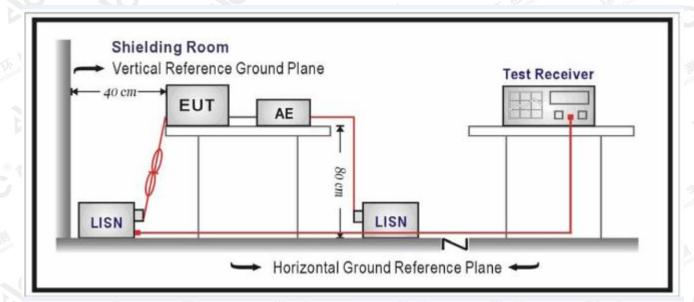
Francisco	Maximum RF	Maximum RF Line Voltage							
Frequency	Q.P.( dBuV)	Average( dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	56	46							
5MHz~30MHz	60	50							

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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#### 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.
- 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.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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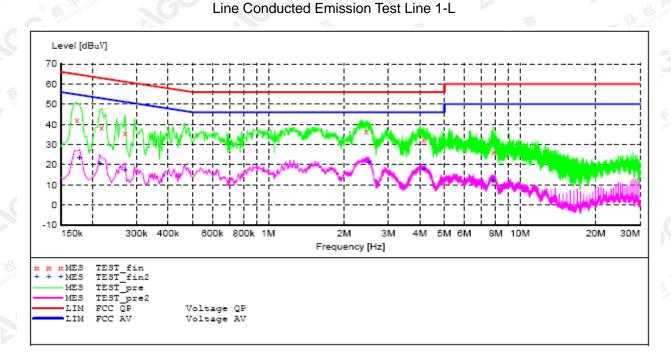
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#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### By adapter(worst case)

#### FOR BR/EDR



#### MEASUREMENT RESULT: "TEST fin"

	5/26 17:2			<b>-</b> · · · ·			<b>-</b> .	
Fre	equency MHz	dBuV	Transd dB	dBuV	Margin dB	Detector	Line	PE
0	.174000	42.10	10.0	65	22.7	QP	L1	FLO
0	.218000	38.40	10.1	63	24.5	QP	L1	FLO
0	.270000	35.60	10.1	61	25.5	QP	L1	FLO
2	.454000	36.30	9.9	56	19.7	QP	L1	FLO
4	.138000	32.40	10.2	56	23.6	QP	L1	FLO
7	.830000	26.40	10.0	60	33.6	QP	L1	FLO

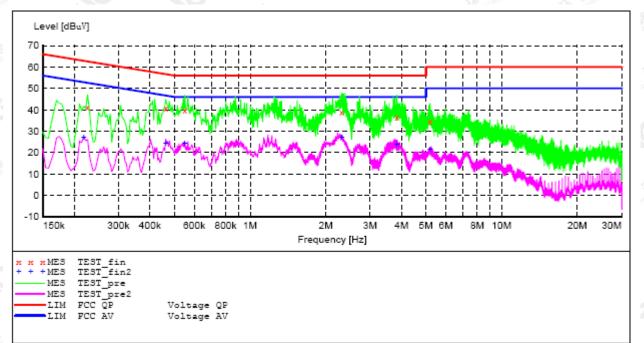
MEASUREMENT RESULT: "TEST fin2"

2018/5/26 17:	29						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000	23.30	10.0	55	31.3	AV	L1	FLO
0.214000	20.80	10.1	53	32.2	AV	L1	FLO
0.270000	17.20	10.1	51	33.9	AV	L1	FLO
2.502000	21.30	9.9	46	24.7	AV	L1	FLO
4.142000	17.70	10.2	46	28.3	AV	L1	FLO
7.814000	12.00	10.0	50	38.0	AV	L1	FLO

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Line Conducted Emission Test Line 2-N

#### MEASUREMENT RESULT: "TEST fin"

2018/5/26 17	:36						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.226000	41.00	10.1	63	21.6	QP	N	FLO
0.462000	40.70	10.0	57	16.0	QP	Ν	FLO
0.550000	40.00	9.9	56	16.0	QP	Ν	FLO
2.314000	39.00	9.9	56	17.0	QP	Ν	FLO
3.834000	36.70	10.1	56	19.3	QP	Ν	FLO
5.198000	34.40	10.3	60	25.6	QP	Ν	FLO

#### MEASUREMENT RESULT: "TEST fin2"

/5/26 17:3	6						
requency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.218000 0.462000 0.550000	27.10 24.50 24.30	10.1 10.0 9.9	53 47 46	22.2	AV	N N N	FLO FLO FLO
2.318000 3.834000 5.202000	27.00 23.80 21.70	9.9 10.1 10.3	46 46 50	19.0 22.2 28.3	AV AV AV	N N N	FLO FLO FLO
	requency MHz 0.218000 0.462000 0.550000 2.318000 3.834000	MHz dBuV 0.218000 27.10 0.462000 24.50 0.550000 24.30 2.318000 27.00 3.834000 23.80	requency Level Transd MHz dBuV dB 0.218000 27.10 10.1 0.462000 24.50 10.0 0.550000 24.30 9.9 2.318000 27.00 9.9 3.834000 23.80 10.1	requency MHz Level dBuV Transd dBuV Limit dBuV   0.218000 27.10 10.1 53   0.462000 24.50 10.0 47   0.550000 24.30 9.9 46   2.318000 27.00 9.9 46   3.834000 23.80 10.1 46	requency MHzLevel dBuVTransd dBLimit dBuVMargin dB0.21800027.1010.15325.80.46200024.5010.04722.20.55000024.309.94621.72.31800027.009.94619.03.83400023.8010.14622.2	requency MHz Level dBuV Transd dB Limit dBuV Margin dB Detector dB   0.218000 27.10 10.1 53 25.8 AV   0.462000 24.50 10.0 47 22.2 AV   0.550000 24.30 9.9 46 21.7 AV   2.318000 27.00 9.9 46 19.0 AV   3.834000 23.80 10.1 46 22.2 AV	requency MHz Level Transd dBuV Limit Margin dBuV Detector Line dB   0.218000 27.10 10.1 53 25.8 AV N   0.462000 24.50 10.0 47 22.2 AV N   0.550000 24.30 9.9 46 21.7 AV N   2.318000 27.00 9.9 46 19.0 AV N   3.834000 23.80 10.1 46 22.2 AV N

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

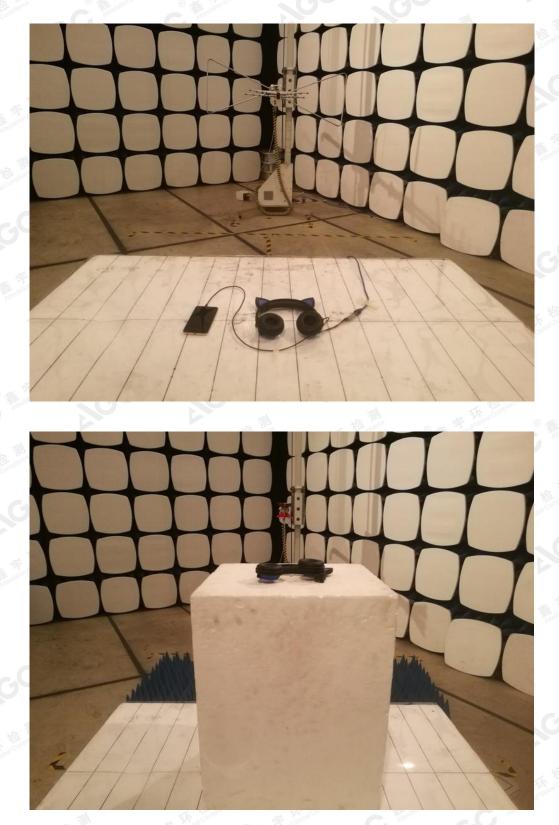


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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



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#### BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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### BACK VIEW OF EUT



#### LEFT VIEW OF EUT



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### **RIGHT VIEW OF EUT**



VIEW OF EUT (Port)



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#### OPEN VIEW OF EUT



**VIEW OF BATTERY** 



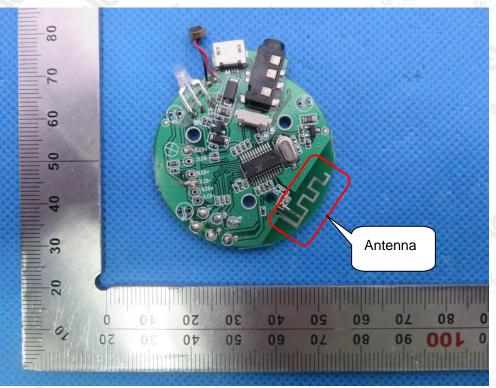
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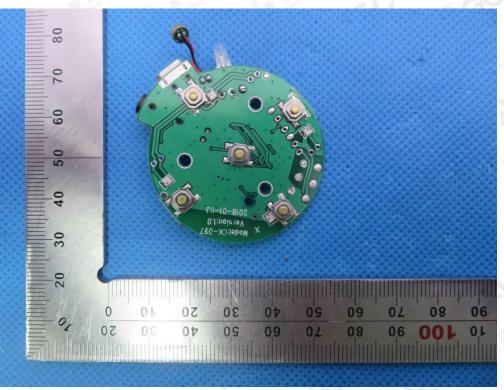


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#### INTERNAL VIEW OF EUT-1



**INTERNAL VIEW OF EUT-2** 



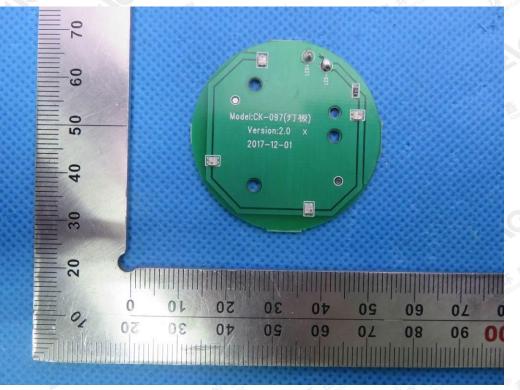
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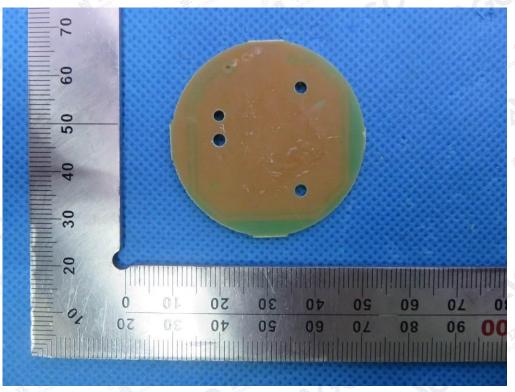


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## INTERNAL VIEW OF EUT-3



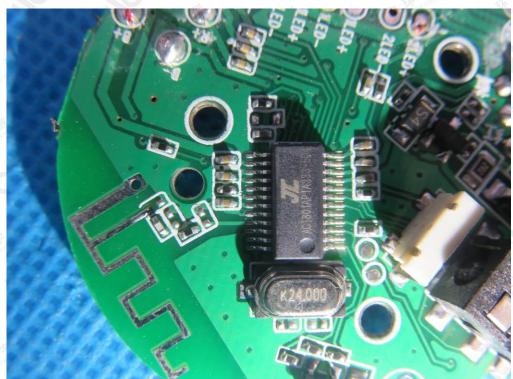
#### INTERNAL VIEW OF EUT-4



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**INTERNAL VIEW OF EUT-5** 

VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

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# Series color Samples



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