

FCC Test Report

Report No.: AGC00079180302FE03

FCC ID : ATL-MFNECKAIR

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Wireless Neckband Headphones

BRAND NAME: iLuv

MODEL NAME: MFNECKAIRBK, MFNECKAIRSI, MFNECKAIRRG, 17LY85

CLIENT: iLuv Creative Technology

DATE OF ISSUE : Mar. 19, 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	plants 1 8 Maria	Mar. 19, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	iLuv Creative Technology			
Address	2 Harbor Park Drive Port Washington, NY 11050			
Manufacturer	Jia Hua Li Dian Zi You Xian Gong Si			
Address	NO 101, 201, BUILDING E, NEW INDUSTRIAL ZONE, SHENZHU ROAD, LIUYUE SHENKENG VILLAGE, HENGGANG, LONGGANG DISTRICT, SHENZHEN, CHINA.			
Product Designation	Wireless Neckband Headphones			
Brand Name	iLuv Communication Communicati			
Test Model	MFNECKAIRBK			
Series Model	MFNECKAIRSI,MFNECKAIRRG, 17LY85			
Difference Description	All the same except for the model name.			
Date of test	Mar. 06, 2018 to Mar. 15, 2018			
Deviation	None None			
Condition of Test Sample	Normal Section of the			
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	Jorden Wand	
© Mariano Colos Compre	Jonhen Wang(Wang Yonghuan)	Mar. 15, 2018
Paviawad By	Lowert ce	
Reviewed By	Forrest Lei(Lei Yonggang)	Mar. 19, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

7 Thajor toornhoar accomp	tion of Eo i is described as following
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-6.18dBm(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	A5
Software Version	V4.2
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
Metablichot (COC)	0.0	2402MHz
, GO	1 The American	2403MHz
The Manager	The secondaries Samuel and colored	
S S S S S S S S S S S S S S S S S S S	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
TA PORTOR OF THE STATE OF THE S	: 20	GC B
GO imm	77	2479 MHz
	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

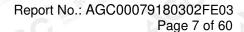
4. DESCRIPTION OF TEST MODES

NO.		TEST MODE DESCRIPTION	
© Files In of Globe	® # Godon 8 4	Low channel GFSK	
2	30	Middle channel GFSK	The Homes
3	100	High channel GFSK	atation of Citor.
4	Manual Company	Low channel π /4-DQPSK	
© 5 3 de co	CC AME	Middle channel π /4-DQPSK	1 控制
6		High channel π /4-DQPSK	© The state of Global
7	TE JULIONE (S. MILL)	BT Link with charging	,0
8 8	A CO FOR	BT Link	litte

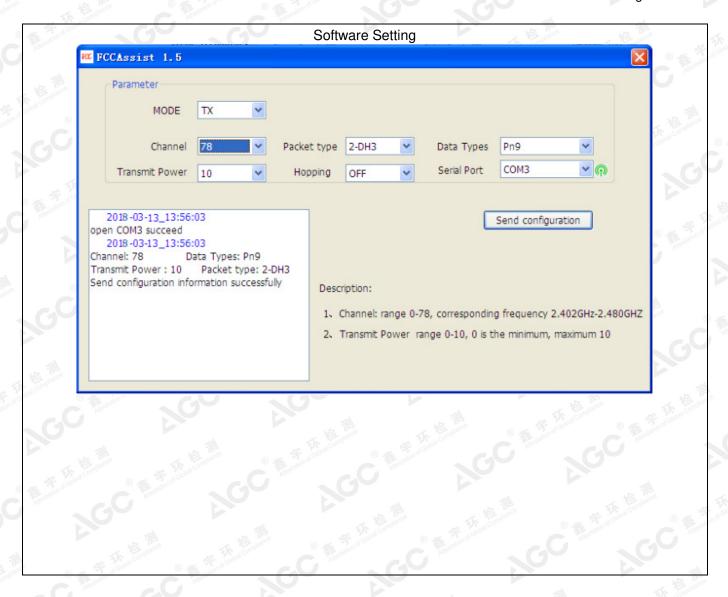
Note:

- 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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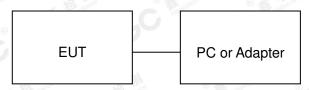


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5. SYSTEM TEST CONFIGURATION

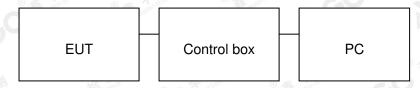
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



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

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
Artestation of Cicional	Wireless Neckband Headphones	iLuv	MFNECKAIRBK	EUT
2	Battery	Shenzhen Youchi	YC68450PA	Accessory
3	PC	APPLE	A1465	A.E
4 0 4	Control box	GZUT	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
17 T	USB Cable	N/A	0.6m unshielded	Accessory

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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	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	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	G Alle	Mar. 01, 2018	Feb. 28, 2020

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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 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)	技 ·····					
1.705 ~ 30	30	30	E State Colonic Coloni					
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 Th. 12 CO	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m					

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ 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)
- 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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The following table is the setting of spectrum analyzer and receiver.

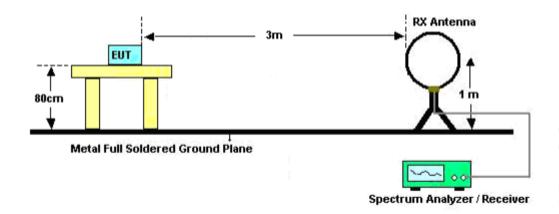
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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

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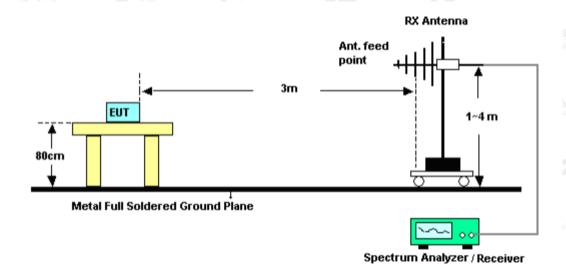


9.3. TEST SETUP

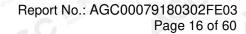
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

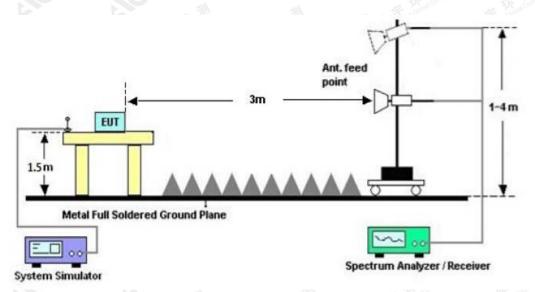


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

(Worst modulation: GFSK)

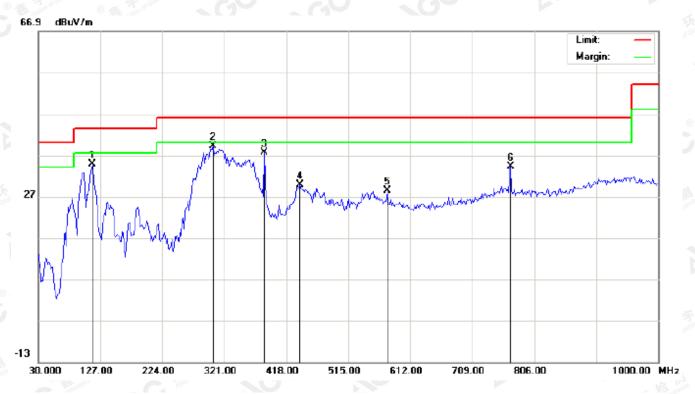
FOR BR/EDR

RADIATED EMISSION BELOW 30MHz

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

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	dBu∀/m	dB		cm	degree	
1		114.0667	27.49	7.23	34.72	43.50	-8.78	peak			
2	*	303.2167	23.67	15.62	39.29	46.00	-6.71	peak			
3		384.0500	18.68	18.96	37.64	46.00	-8.36	peak			
4		439.0167	9.64	20.26	29.90	46.00	-16.10	peak			
5		576.4333	5.23	23.14	28.37	46.00	-17.63	peak			
6		768.8167	7.37	26.89	34.26	46.00	-11.74	peak			

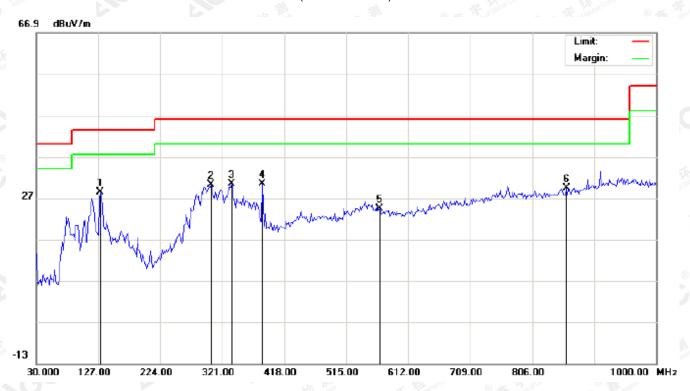
RESULT: PASS

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
3400	1	*	130.2333	17.20	11.13	28.33	43.50	-15.17	peak			
	2		303.2167	14.63	15.62	30.25	46.00	-15.75	peak			
	3		335.5500	12.69	17.78	30.47	46.00	-15.53	peak			
	4		384.0500	11.42	18.96	30.38	46.00	-15.62	peak			
	5		566.7333	1.83	22.56	24.39	46.00	-21.61	peak			
	6		859.3500	1.89	27.55	29.44	46.00	-16.56	peak			

RESULT: PASS

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

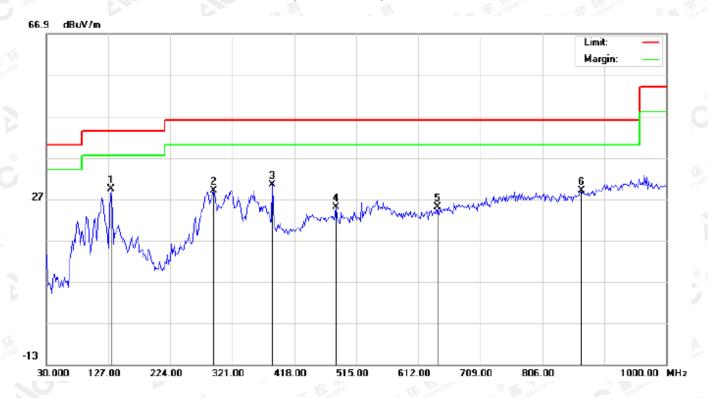
2. The "Factor" value can be calculated automatically by software of measurement system.

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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	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	131.8500	17.54	11.80	29.34	43.50	-14.16	peak			
2		291.9000	13.85	15.17	29.02	46.00	-16.98	peak			
3		384.0500	11.44	18.96	30.40	46.00	-15.60	peak			
4		482.6667	4.13	20.94	25.07	46.00	-20.93	peak			
5		642.7167	1.38	23.69	25.07	46.00	-20.93	peak			
6		867.4333	1.29	27.76	29.05	46.00	-16.95	peak			

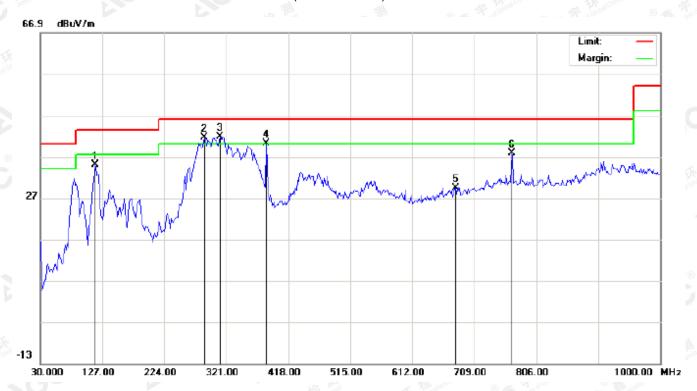
RESULT: PASS

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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	dBuV/m	dBu∀/m	dB		cm	degree	
1		115.6833	27.39	7.54	34.93	43.50	-8.57	peak			
2	ļ	287.0500	23.52	18.02	41.54	46.00	-4.46	peak			
3	*	311.3000	22.61	19.16	41.77	46.00	-4.23	peak			
4	ļ	384.0500	18.29	21.96	40.25	46.00	-5.75	peak			
5		679.9000	1.82	27.65	29.47	46.00	-16.53	peak			
6		767.2000	7.85	29.87	37.72	46.00	-8.28	peak			

RESULT: PASS

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

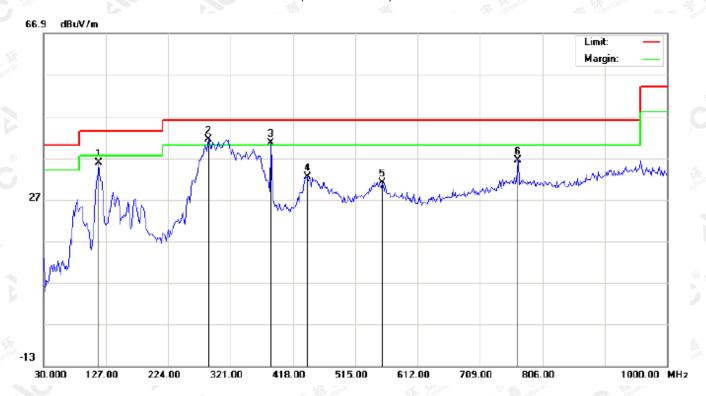
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH 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		115.6833	28.31	7.54	35.85	43.50	-7.65	peak			
2	*	287.0500	23.48	18.02	41.50	46.00	-4.50	peak			
3	İ	384.0500	18.73	21.96	40.69	46.00	-5.31	peak			
4		440.6333	9.11	23.31	32.42	46.00	-13.58	peak			
5		557.0333	5.55	25.52	31.07	46.00	-14.93	peak			
6		767.2000	6.58	29.87	36.45	46.00	-9.55	peak		·	

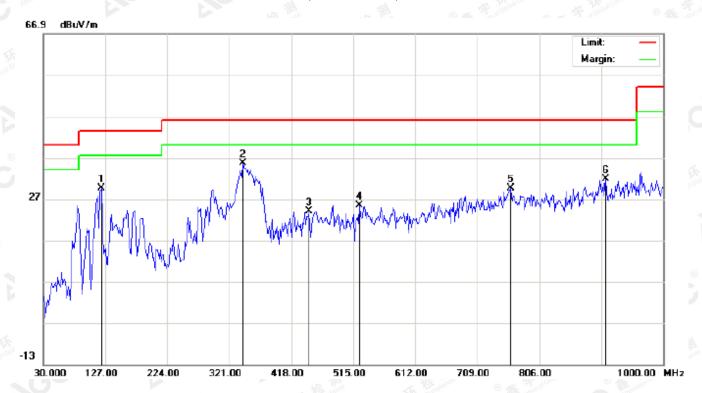
RESULT: PASS

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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	dBu√/m	dB		cm	degree	
1		120.5333	19.58	10.08	29.66	43.50	-13.84	peak			
2	*	342.0167	14.36	21.21	35.57	46.00	-10.43	peak			
3		445.4833	0.58	23.45	24.03	46.00	-21.97	peak			
4		524.7000	0.58	24.80	25.38	46.00	-20.62	peak			
5		760.7333	-0.17	29.78	29.61	46.00	-16.39	peak			
6		909.4667	-0.13	31.87	31.74	46.00	-14.26	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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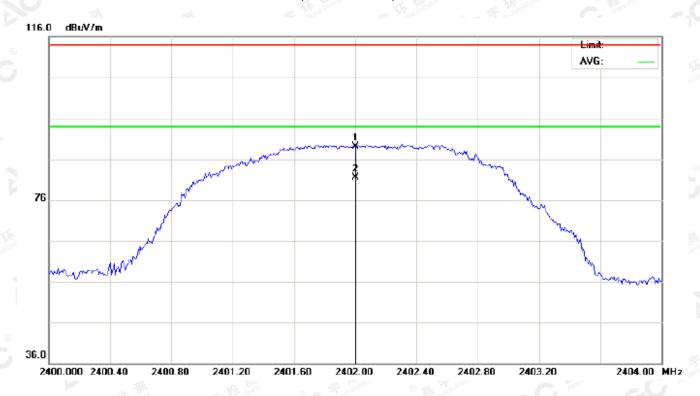
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)
FOR BR/EDR

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	dBu√/m	dB		cm	degree	
1		2402.000	78.70	10.32	89.02	114.00	-24.98	peak			
2	*	2402.000	71.20	10.32	81.52	94.00	-12.48	AVG	100	311	

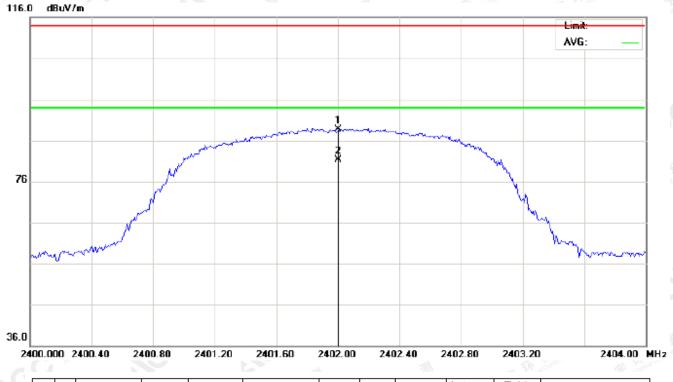
RESULT: PASS

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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	dBu∀/m	dB		cm	degree	
1		2402.000	78.33	10.32	88.65	114.00	-25.35	peak			
2	*	2402.000	70.89	10.32	81.21	94.00	-12.79	AVG	100	145	

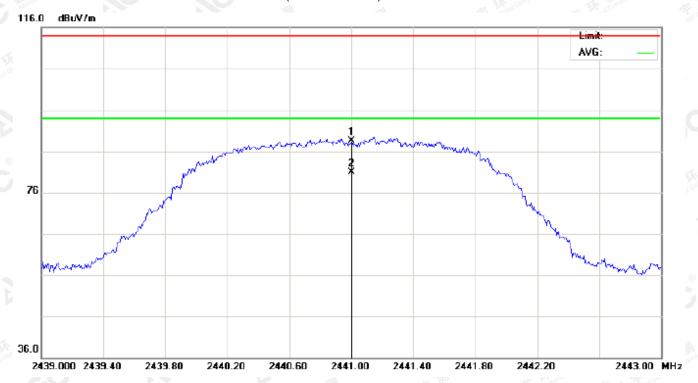
RESULT: PASS

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



N	О.	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	78.13	10.36	88.49	114.00	-25.51	peak			
-	2	*	2441.000	70.63	10.36	80.99	94.00	-13.01	AVG	100	314	

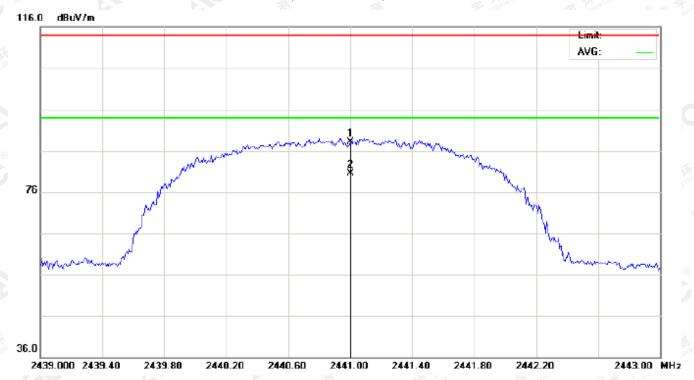
RESULT: PASS

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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	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	77.77	10.36	88.13	114.00	-25.87	peak			
2	*	2441.000	70.22	10.36	80.58	94.00	-13.42	AVG	100	111	

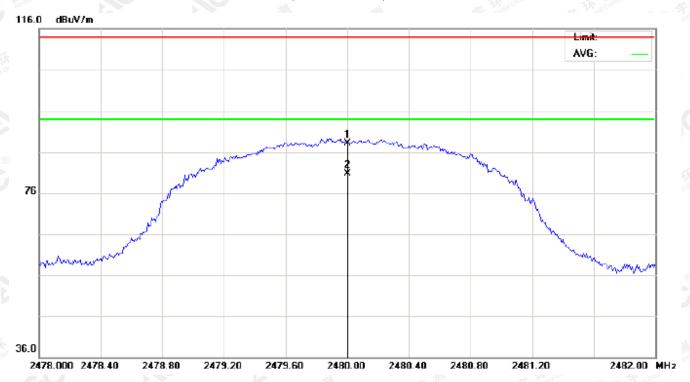
RESULT: PASS

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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		2480.000	77.74	10.41	88.15	114.00	-25.85	peak			
2	*	2480.000	70.24	10.41	80.65	94.00	-13.35	AVG	100	313	

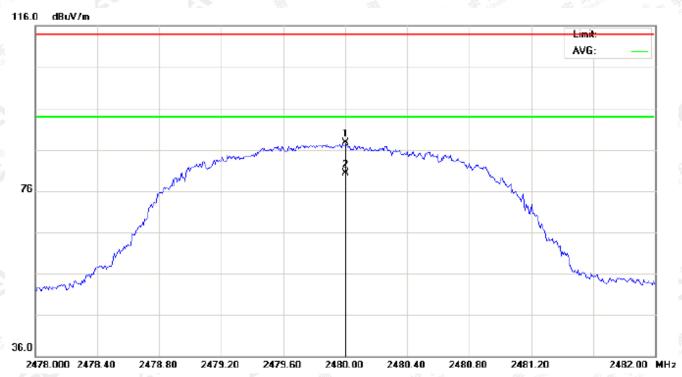
RESULT: PASS

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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
0		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	77.32	10.41	87.73	114.00	-26.27	peak			
2	*	2480.000	69.88	10.41	80.29	94.00	-13.71	AVG	100	112	

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

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.70	10.32	89.02	114	-24.98	Horizontal	
2402	78.33	10.32	88.65	114	-25.35	Vertical	
2441	78.13	10.36	88.49	114	-25.51	Horizontal	
2441	77.77	10.36	88.13	114	-25.87	Vertical	
2480	77.74	10.41	88.15	114	-25.85	Horizontal	
2480	77.32	10.41	87.73	114	-26.27	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	71.20	10.32	81.52	94	-12.48	Horizontal	
2402	70.89	10.32	81.21	94	-12.79	Vertical	
2441	70.63	10.36	80.99	94	-13.01	Horizontal	
2441	70.22	10.36	80.58	94	-13.42	Vertical	
2480	70.24	10.41	80.65	94	-13.35	Horizontal	
2480	69.88	10.41	80.29	94	-13.71	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	78.16	10.32	88.48	114	-25.52	Horizontal
2402	77.82	10.32	88.14	114	-25.86	Vertical
2441	77.57	10.36	87.93	114	-26.07	Horizontal
2441	77.24	10.36	87.60	114	-26.4	Vertical
2480	77.23	10.41	87.64	114	-26.36	Horizontal
2480	76.76	10.41	87.17	114	-26.83	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	70.65	10.32	80.97	94	-13.03	Horizontal
2402	70.35	10.32	80.67	94	-13.33	Vertical
2441	70.09	10.36	80.45	94	-13.55	Horizontal
2441	69.67	10.36	80.03	94	-13.97	Vertical
2480	69.71	10.41	80.12	94	-13.88	Horizontal
2480	69.36	10.41	79.77	94	-14.23	Vertical

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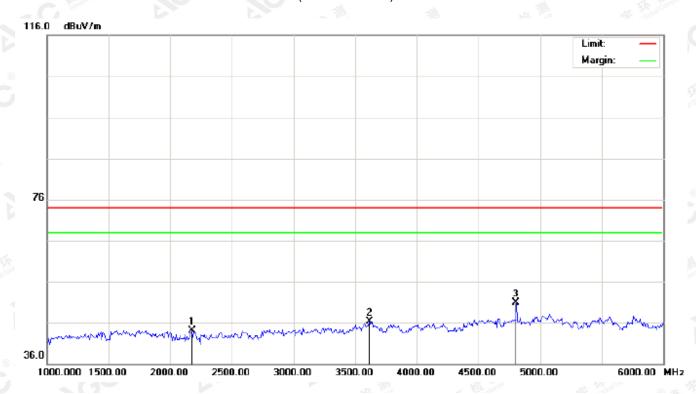


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(Worst modulation: GFSK) FOR BR/EDR

For Harmonics

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2175.000	34.00	10.07	44.07	74.00	-29.93	peak			
2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

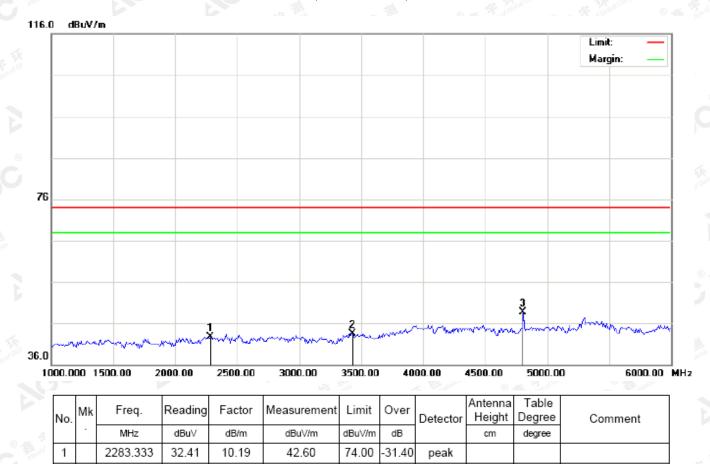
RESULT: PASS

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



74.00

74.00

-30.41

25.26

peak

RESULT: PASS

2

3433.333

4804.000

31.54

41.05

12.05

7.69

43.59

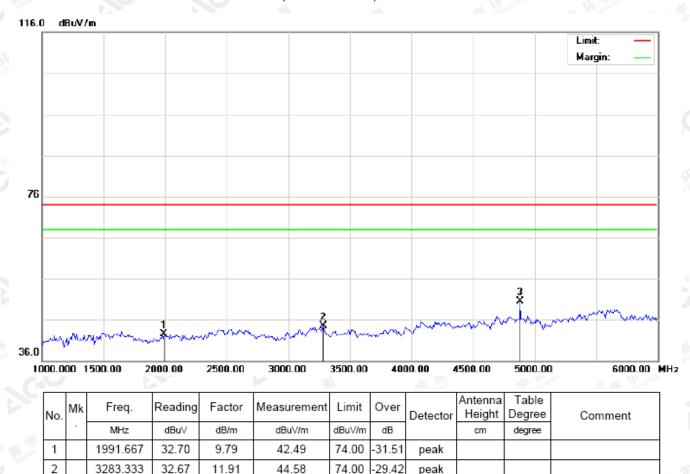
48.74

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



74.00

-23.45

7.89

50.55

42.66

RESULT: PASS

3

4882.000

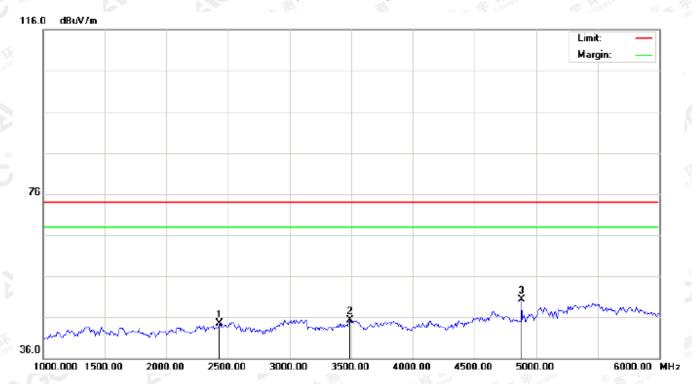
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IGC 8 Attestation of Global Compliance peak



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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	dBu∀/m	dBu∀/m	dB		cm	degree	
0	1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
	2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
	3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

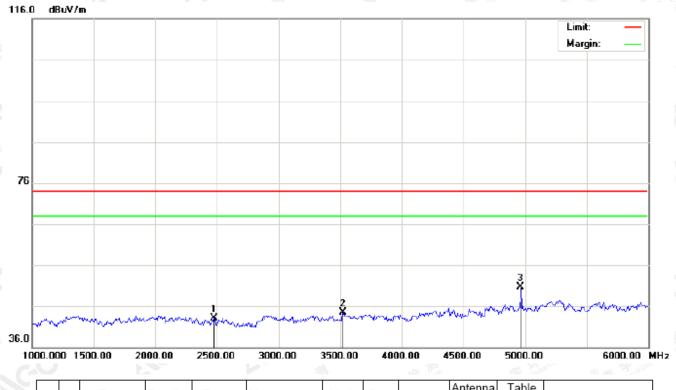
RESULT: PASS

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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	dBu∀/m	dB		cm	degree	
0	1		2475.000	32.73	10.40	43.13	74.00	-30.87	peak			
	2		3525.000	32.29	12.26	44.55	74.00	-29.45	peak			
	3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak		·	

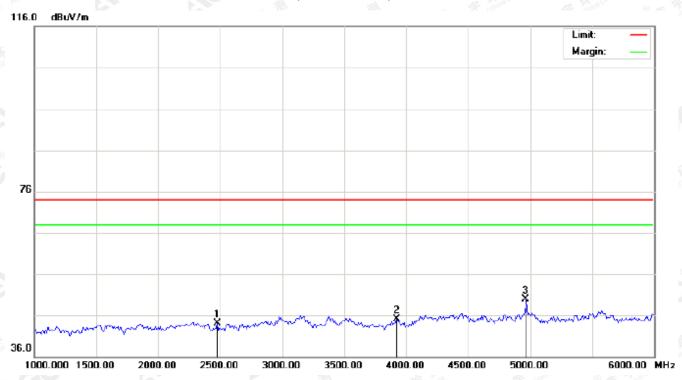
RESIII T. PASS

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



No.	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		2475.000	33.61	10.40	44.01	74.00	-29.99	peak			
2		3925.000	30.33	14.73	45.06	74.00	-28.94	peak			
3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	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

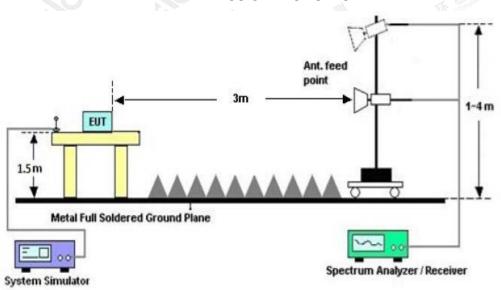
10.1. MEASUREMENT PROCEDURE

- 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.

9	Start frequenc	y(MHz)		Stop frequency(MHz)			
Į,	2200	The phane	The Compilates	© Martinon of	2405	1GO	
® # station of G	2478	3 dobal Co	Affectation of Glos	-,0 "	2500		

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

FOR BR/EDR

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



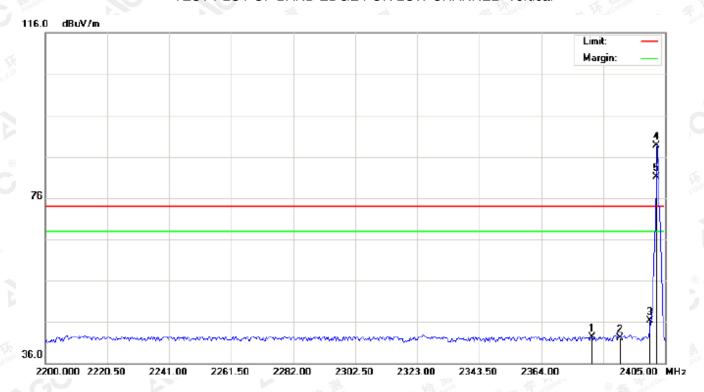
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2383.133	32.09	10.30	42.39	74.00	-31.61	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	78.69	10.32	89.01	74.00	15.01	peak			
5	Х	2402.000	71.19	10.32	81.51	74.00	7.51	AVG	100	301	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical



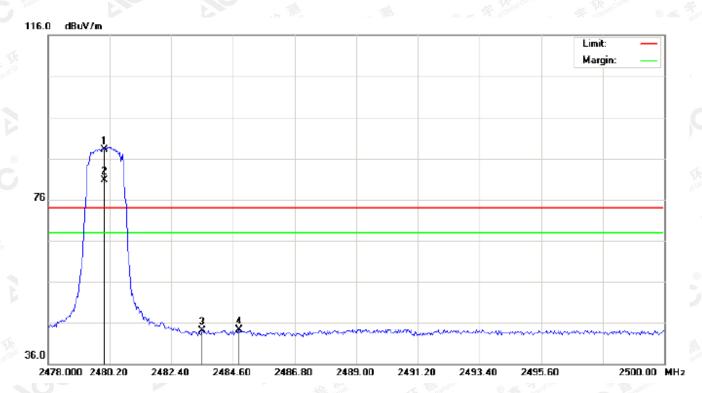
N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
90	1		2380.741	32.03	10.30	42.33	74.00	-31.67	peak			
	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
	3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
	4	*	2402.000	78.31	10.32	88.63	74.00	14.63	peak			
	5	Х	2402.000	70.88	10.32	81.20	74.00	7.20	AVG	100	101	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



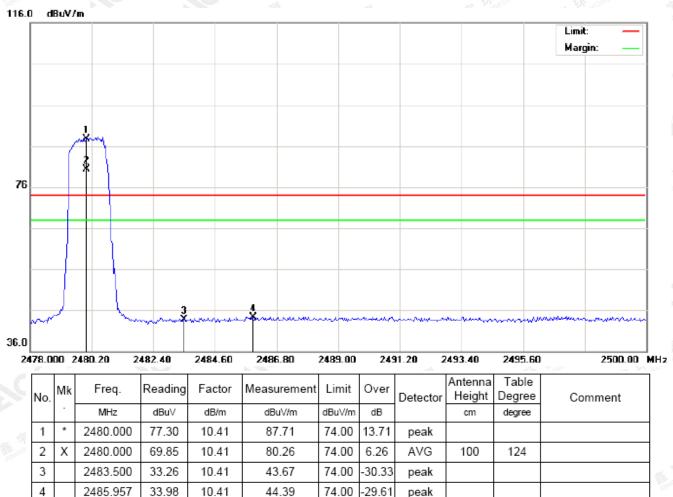
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB	cm	cm	degree	
1	*	2480.000	77.72	10.41	88.13	74.00	14.13	peak			
2	Х	2480.000	70.22	10.41	80.63	74.00	6.63	AVG	100	314	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		2484.820	33.86	10.41	44.27	74.00	-29.73	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



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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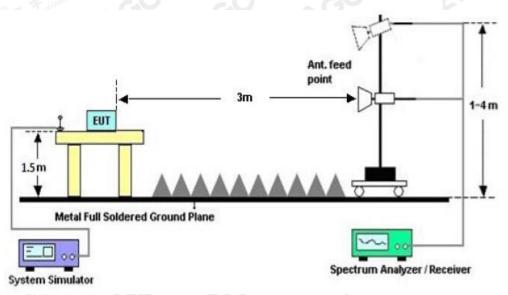
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11. 20DB BANDWIDTH

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

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Test Data (MHz)							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
Solve Company	Low Channel	0.913	1.074	PASS					
N/A	Middle Channel	0.893	1.041	PASS					
700	High Channel	0.919	1.066	PASS					

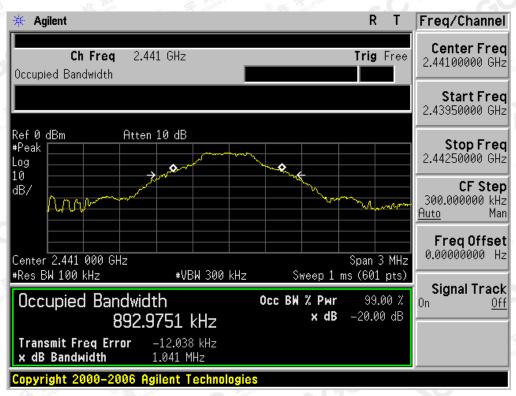
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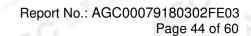
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

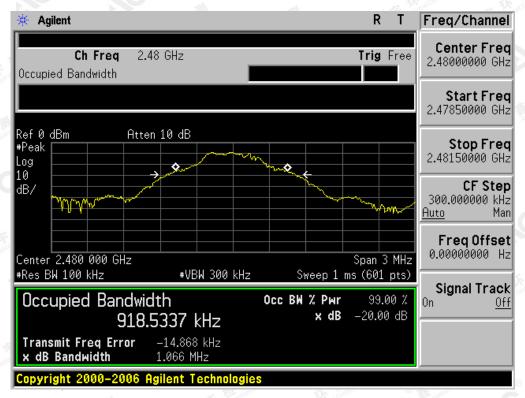


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



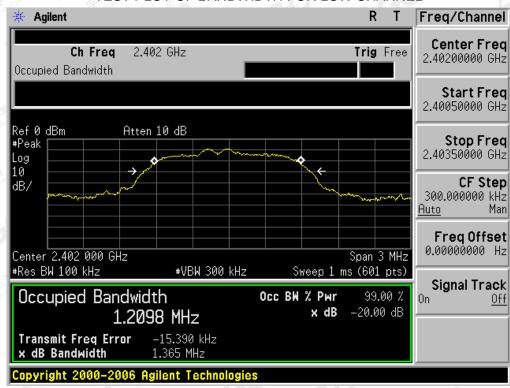
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Docult							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
不是那 不是那	Low Channel	1.210	1.365	PASS					
N/A	Middle Channel	1.206	1.345	PASS					
	High Channel	1.211	1.368	PASS					

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

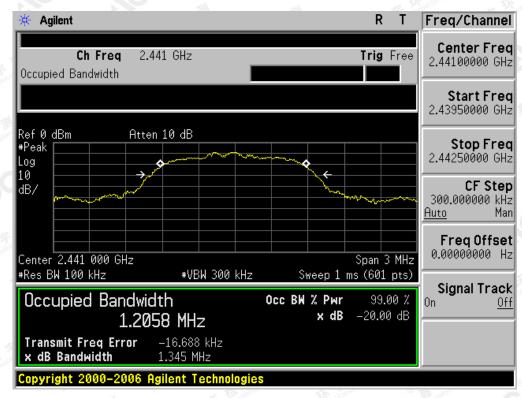


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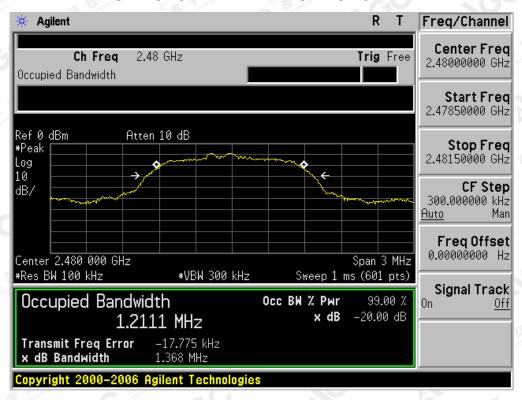




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

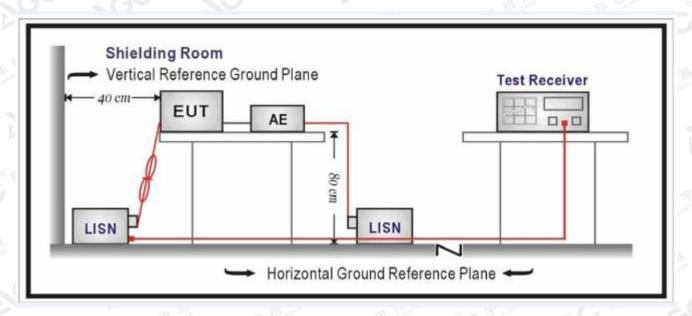
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	8 gg 25 20 56 56 20 10 00 00 00 00 00 00 00 00 00 00 00 00	46						
5MHz~30MHz	30 (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

- 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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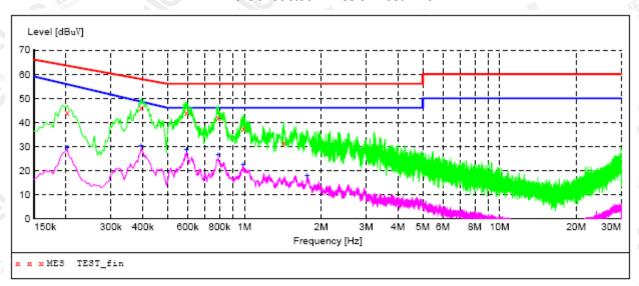
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_fin"

2018/3/13 17:3	19						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.202000	44.20	11.4	64	19.3	QP	L1	FLO
0.394000	46.00	11.4	58	12.0	QP	L1	FLO
0.594000	43.90	11.4	56	12.1	QP	L1	FLO
0.790000	41.90	11.4	56	14.1	QP	L1	FLO
0.990000	37.20	11.3	56	18.8	QP	L1	FLO
1.426000	31.70	11.3	56	24.3	QP	L1	FLO

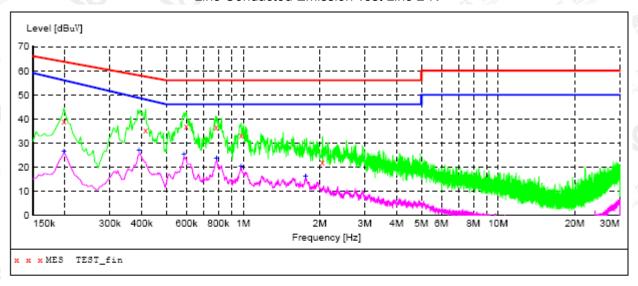
MEASUREMENT RESULT: "TEST fin2"

20	18/3/13 17:1	.9						
	Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
	0.202000	29.40	11.4	56	26.4		L1	FLO
	0.394000	30.50	11.4	49	18.1	AV	L1	FLO
	0.594000	28.50	11.4	46	17.5	AV	L1	FLO
	0.790000	26.60	11.4	46	19.4	AV	L1	FLO
	0.990000	22.30	11.3	46	23.7	AV	L1	FLO
	1.762000	17.70	11.3	46	28.3	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

2018/3/13 17:26

	PΕ
dB	_
4 24.5 QP N FL	.0
B 22.3 QP N FL	0
6 19.2 QP N FL	.0
6 19.5 QP N FL	0
6 22.9 QP N FL	0
6 33.9 QP N FL	0.
	dB 4 24.5 QP N FI 8 22.3 QP N FI 6 19.2 QP N FI 6 19.5 QP N FI 6 22.9 QP N FI

MEASUREMENT RESULT: "TEST fin2"

2018/3/13 17:26

2010/3/13 1/:2	40						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000	26.70	11.4	56	29.3	AV	N	FLO
0.390000	27.00	11.4	49	21.7	AV	N	FLO
0.586000	25.40	11.4	46	20.6	AV	N	FLO
0.786000	23.80	11.4	46	22.2	AV	N	FLO
0.982000	20.50	11.3	46	25.5	AV	N	FLO
1.758000	16.30	11.3	46	29.7	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

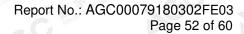
FCC LINE CONDUCTED EMISSION TEST SETUP



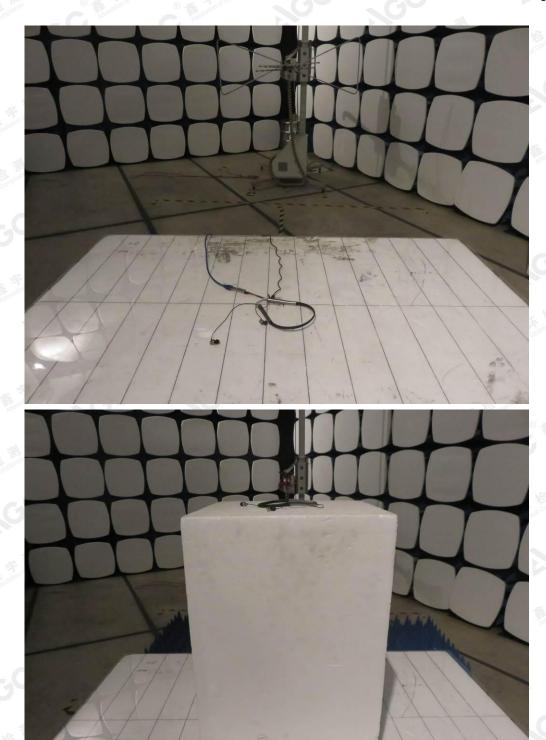
FCC RADIATED EMISSION TEST SETUP



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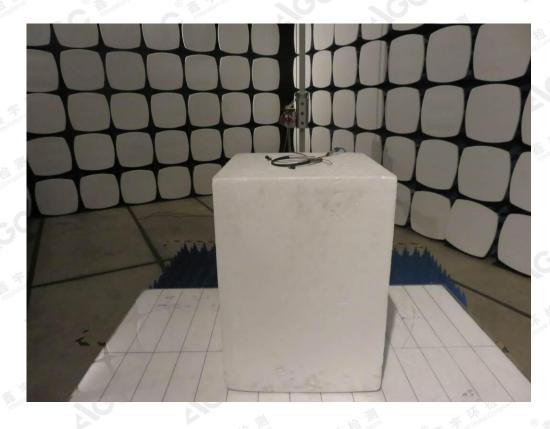




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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



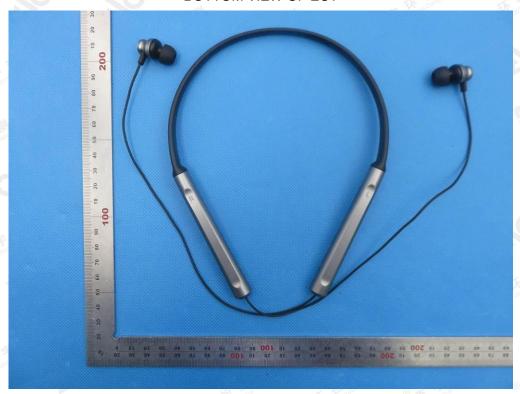
TOP VIEW OF EUT



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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



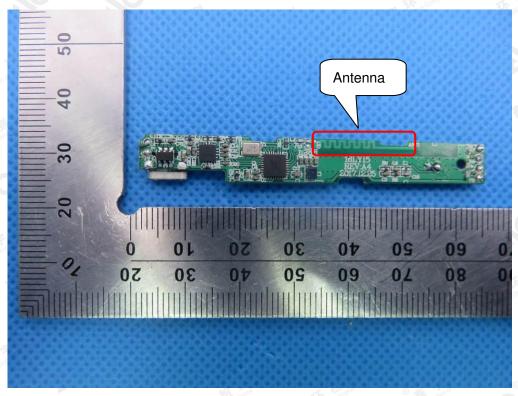
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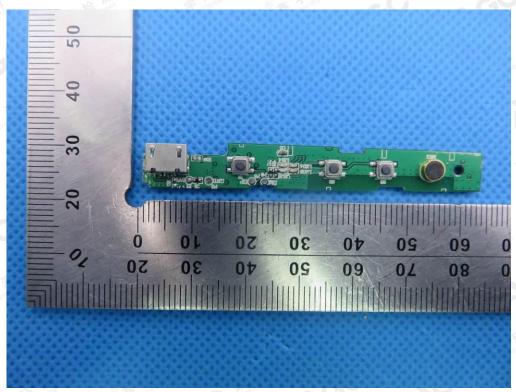
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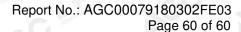
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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