

FCC Test Report

Report No.: AGC00184180301FE03

FCC ID : 2API9-CLIK

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Mymanu CLIK+ Smart Bluetooth Wireless Earbuds

BRAND NAME : Mymanu

MODEL NAME : CLIK+, MYMANUCK17

CLIENT : Mymanu Limited

DATE OF ISSUE : Apr. 16, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Rules

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	I 8 Milles M	Apr. 16, 2018	Valid	Initial Release

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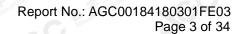




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1. VERIFICATION OF CONFORMITY

Applicant	Mymanu Limited			
Address	12th Floor Blue Tower, Media City Uk, Manchester, England, M50 2ST			
Manufacturer	Wata Electronics Co., Ltd.			
Address	No 142, South Tanshen Road, Tanzhou Town, Zhongshan City, Guangdong, China			
Product Designation	Mymanu CLIK+ Smart Bluetooth Wireless Earbuds			
Brand Name	Mymanu			
Test Model	CLIK+			
Series Model	MYMANUCK17			
Difference description	All the same except for the model name			
Date of test	Apr. 08, 2018 to Apr. 11, 2018			
Deviation	None			
Condition of Test Sample	Normal			
Test Result	Pass Management of the Control of th			
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, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with Section 15.207, 15.209, 15.203 of the FCC Part 15, Subpart C Rules.

The results of testing in this report apply to the product/system which was tested only.

Tested by

Max Zhang(Zhang Yi)

Apr. 16, 2018

Reviewed by

Bart Xie(Xie Xiaobin)

Apr. 16, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	10.579MHz		
Maximum field strength	45.82dBuV/m(Peak)@3m		
Modulation	ASK		
Number of channels	The state of the s		
Antenna Gain	OdBi James Comment of the Comment of		
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)		
Hardware Version	V2.4		
Software Version	V0214		
Power Supply	DC3.7V by Battery		

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- 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

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode
Note: For R	Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure:

EUT	
-----	--

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Mymanu CLIK+ Smart Bluetooth Wireless Earbuds	Mymanu	CLIK+	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.209	Radiated Emission	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	N/A

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

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6. TEST FACILITY

2000			
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		
FCC 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		

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
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Loop Antenna	LAPLACE	RF300		Mar. 01, 2018	Feb. 28, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

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7. RADIATED EMISSION

7.1TEST LIMIT

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)	HE AND THE STATE OF THE STATE O	
0.490 ~ 1.705	30	24000/F(kHz)	A Comment	
1.705 ~ 30	30	30		
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3 6	200	46.0	
960 ~ 1000	3 Character Colonia	500	54.0	
Above 1000	3	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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7.2. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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

- 1	Spectrum Parameter	Setting
4C ****	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
IN ASI	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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

For fundamental emission test, the RBW=1MHz, VBW=3MHz

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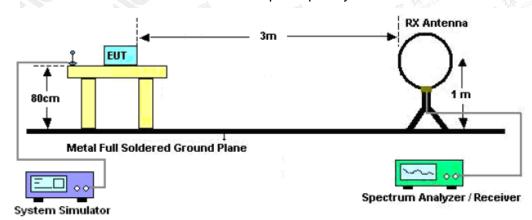


7.3. TEST SETUP

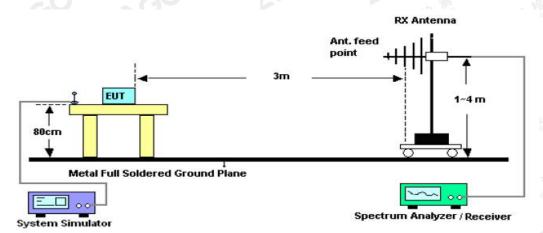
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Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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7.4. TEST RESULT

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RADIATED EMISSION BELOW 30MHZ

K	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) Peak	Limit dB(uV/m) Average	Margin dB	Pass/Fail
	10.579	Face	34.22	11.60	45.82	69.54	-23.72	45.82
	10.579	Side	28.54	11.60	40.14	69.54	-29.40	40.14

Note: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.

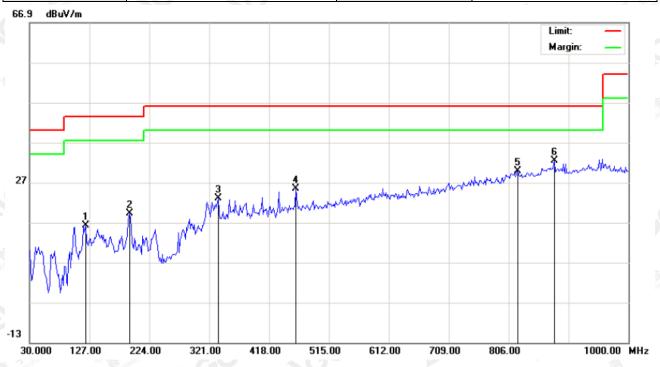
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RADIATED EMISSION 30MHz-1GHZ

EUT:	Mymanu CLIK+ Smart Bluetooth Wireless	Model Name. :	CLIK+
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	Normal
Test Mode :	Mode 1	Polarization:	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		120.5333	10.19	6.11	16.30	43.50	-27.20	peak			
2		191.6667	7.66	11.61	19.27	43.50	-24.23	peak			
3		335.5500	5.29	17.78	23.07	46.00	-22.93	peak			
4		461.6500	4.65	20.72	25.37	46.00	-20.63	peak			
5		820.5500	2.55	27.32	29.87	46.00	-16.13	peak			
6	*	880.3667	4.37	28.10	32.47	46.00	-13.53	peak			

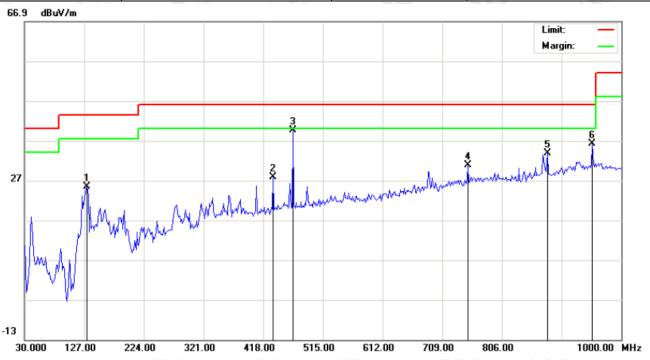
RESULT: PASS

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EUT:	Mymanu CLIK+ Smart Bluetooth Wireless	Model Name. :	CLIK+
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	Normal
Test Mode :	Mode 1	Polarization :	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
P	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		131.8500	13.61	11.80	25.41	43.50	-18.09	peak			
2		434.1667	7.70	20.11	27.81	46.00	-18.19	peak			
3	*	466.5000	18.77	20.77	39.54	46.00	-6.46	peak			
4		751.0333	4.12	26.64	30.76	46.00	-15.24	peak			
5		880.3667	5.77	28.10	33.87	46.00	-12.13	peak			
6		953.1167	6.21	29.97	36.18	46.00	-9.82	peak			

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

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

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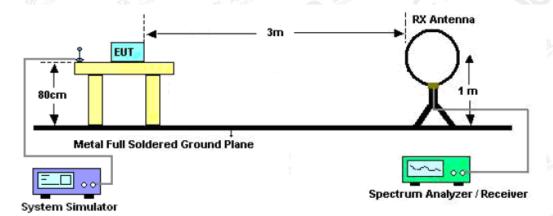
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8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2, Set the EUT Work on operation frequency.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel
 The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
 bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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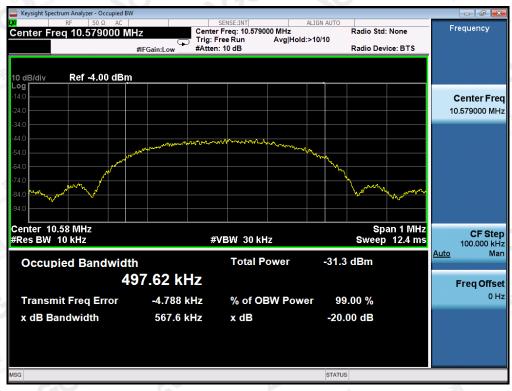
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8.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWID	OTH	THE STATE OF THE S	obal Compilarce	The Complaine
TEST MODULATION	ASK	F Global Compilarice	Allestation of Allest		a Co

Test Data	Criteria		
Operate Channel	The Compliance	567.6	PASS

TEST PLOT OF BANDWIDTH



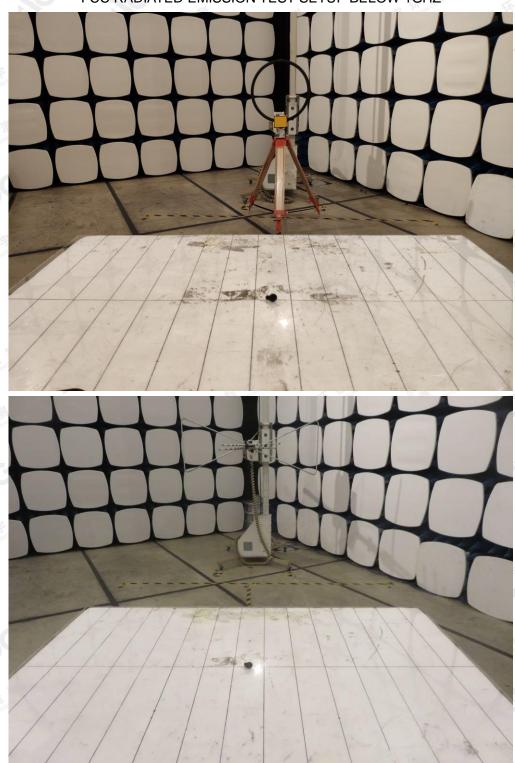
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



VIEW OF EUT

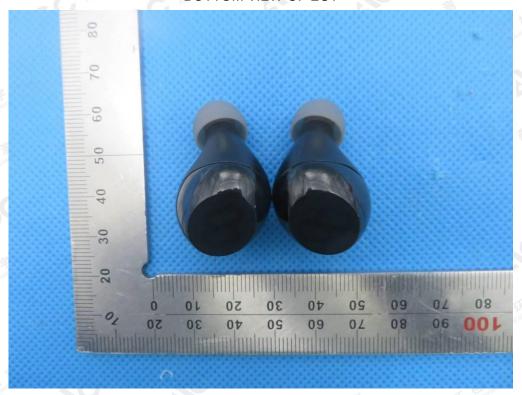


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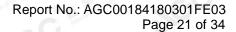
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT

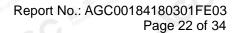


LEFT VIEW OF EUT



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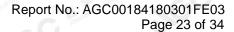
RIGHT VIEW OF EUT



LEFTVIEW OF EUT (PORT)



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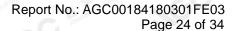
OPEN VIEW OF EUT



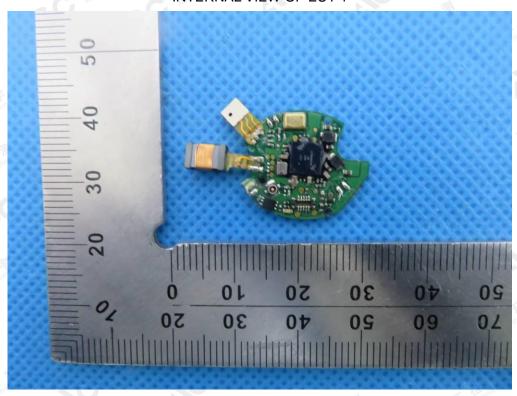
VIEW OF BATTERY



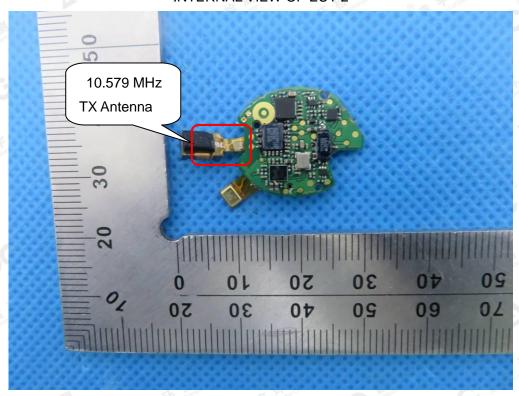
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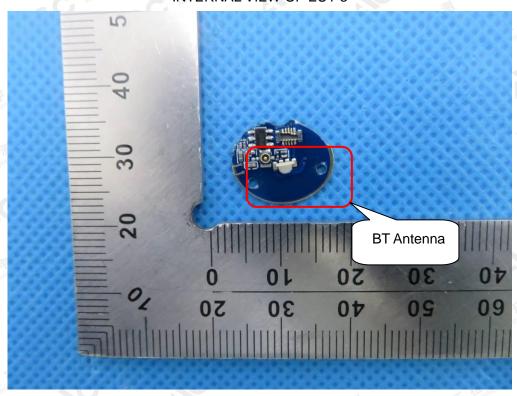


INTERNAL VIEW OF EUT-2

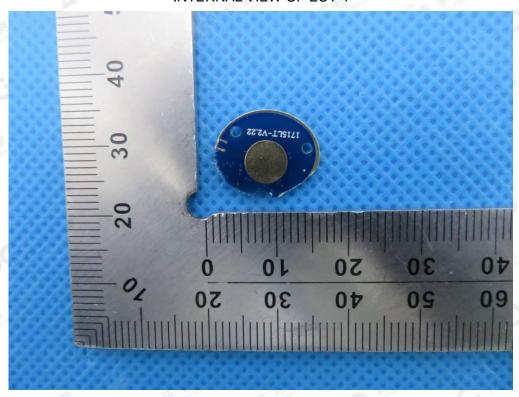


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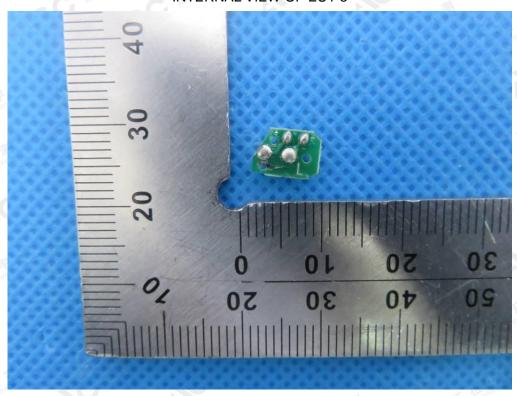
INTERNAL VIEW OF EUT-4



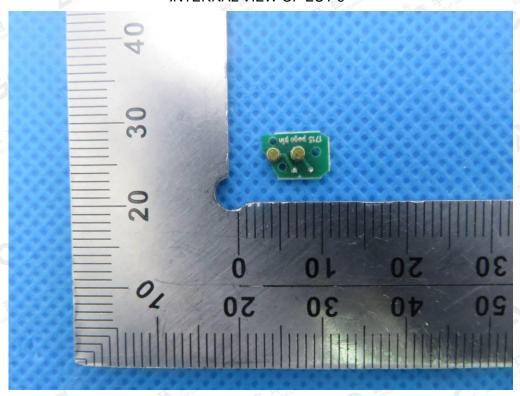
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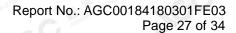


INTERNAL VIEW OF EUT-6

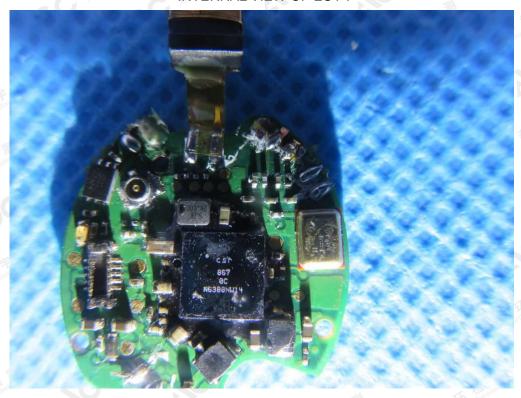


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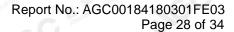


RIGHTVIEW OF EUT (PORT)



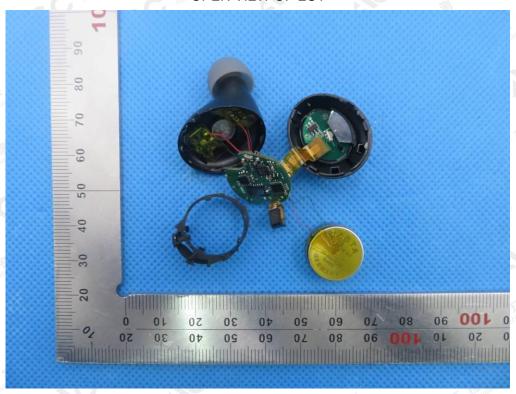
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OPEN VIEW OF EUT



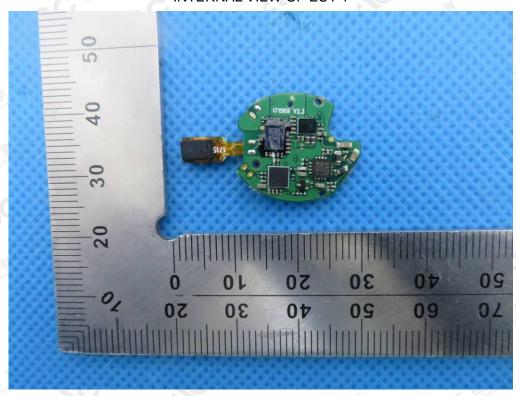
VIEW OF BATTERY



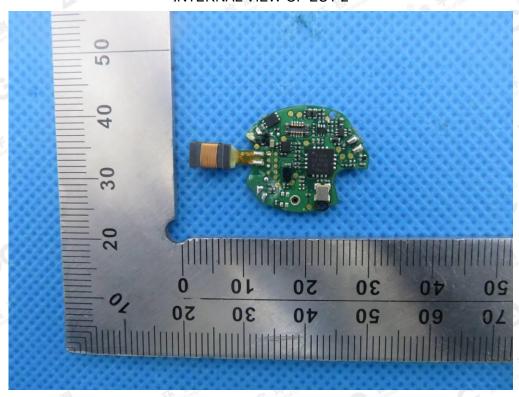
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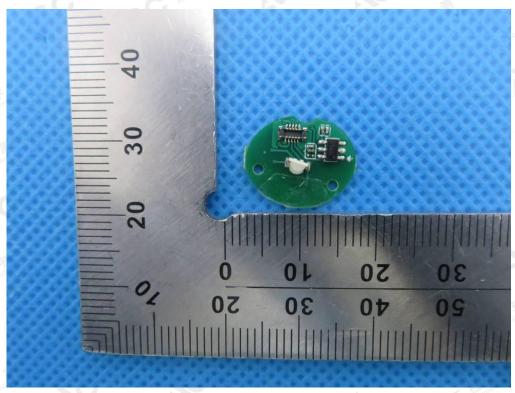
INTERNAL VIEW OF EUT-2



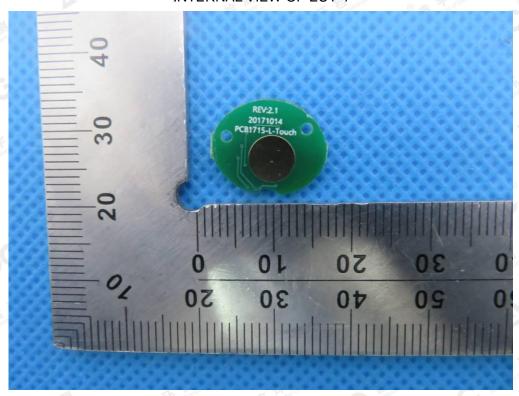
The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

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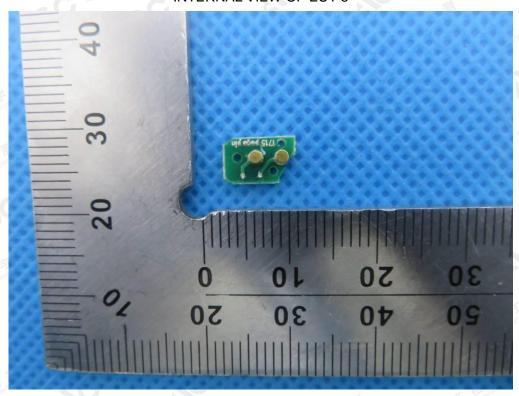
INTERNAL VIEW OF EUT-4



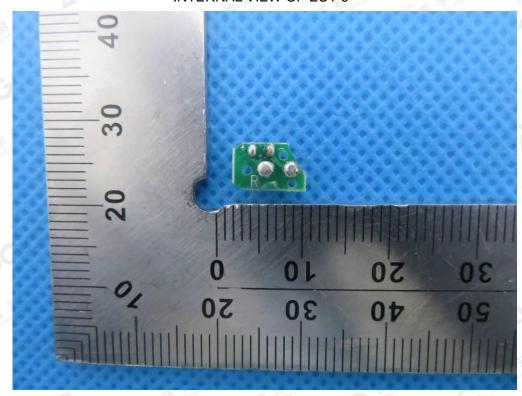
The results specified this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by KGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity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

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INTERNAL VIEW OF EUT-6



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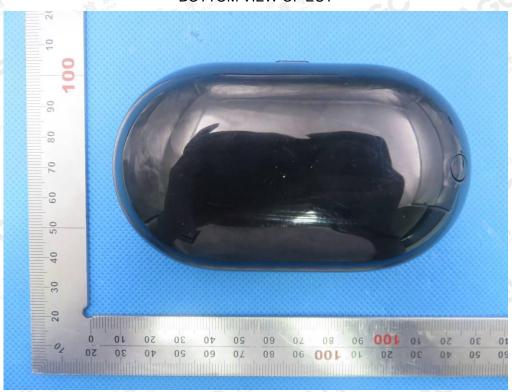
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CHARGING CASE TOP VIEW OF EUT

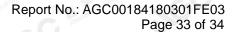


BOTTOM VIEW OF EUT



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VIEW OF EUT (PORT)-1



VIEW OF EUT (PORT)-2



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VIEW OF EUT (PORT)-3



----END OF REPORT---

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