

FCC Test Report

Report No.: AGC01806180301FE03

FCC ID : 2AMD8EP-052

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Wireless Bluetooth Earbuds

BRAND NAME : N/A

MODEL NAME : EP-052, IQ-135TWS

CLIENT: Shenzhen Ground Enterprises Co.,Ltd

DATE OF ISSUE : Apr. 20, 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

AGC 3

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Attestation of Global Compliance

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Report Revise Record

Report Version Revise Time		Issued Date Valid Version		Notes	
V1.0 /		Apr. 20, 2018	Valid	Initial release	

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Ground Enterprises Co.,Ltd
Address	Room607, Building F, MingYueHuaDu, Gonghe Industrial Rd, Xixiang,Bao An Di strict, Shenzhen, 518102, China
Manufacturer	Shenzhen Ground Enterprises Co.,Ltd
Address	Room607, Building F, MingYueHuaDu, Gonghe Industrial Rd, Xixiang,Bao An Di strict, Shenzhen, 518102, China
Product Designation	Wireless Bluetooth Earbuds
Brand Name	N/A
Test Model	EP-052
Series Model	IQ-135TWS
Difference description	All the same except for the model name
Date of test	Apr. 05, 2018 to Apr. 18, 2018
Deviation	None None
Condition of Test Sample	Normal 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	Jorden Wang	
	Jonhen Wang(Wang Yonghuan)	Apr. 18, 2018
Reviewed By	Foresto ce	
® Milestation of Globa	Forrest Lei(Lei Yonggang)	Apr. 20, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

	VII.
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-2.56dBm(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
Hardware Version	A-008 V0.2
Software Version	2010
Antenna Designation	PCB Antenna
Antenna Gain	-0.68dBi
Power Supply	DC 3.7V by battery
Wilson of Table	

- The BT function of EUT isn't work when charging.
- The EUT comprises left and right channel earphone, both are the same and have been tested. Only the test data of left earphone recorded in this report.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency		
The Table Companies	0 0	2402MHz		
	1	2403MHz		
		T. Barbara		
	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
	40	2442 MHz		
	· 电型 · 电型 · 电型	- CO - CO		
	77	2479 MHz		
	78	2480 MHz		

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3. MEASUREMENT UNCERTAINTY

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

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

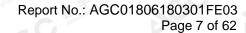
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1 环境	Low channel GFSK
© 2 de 2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
校测 5 环境	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	BT Link

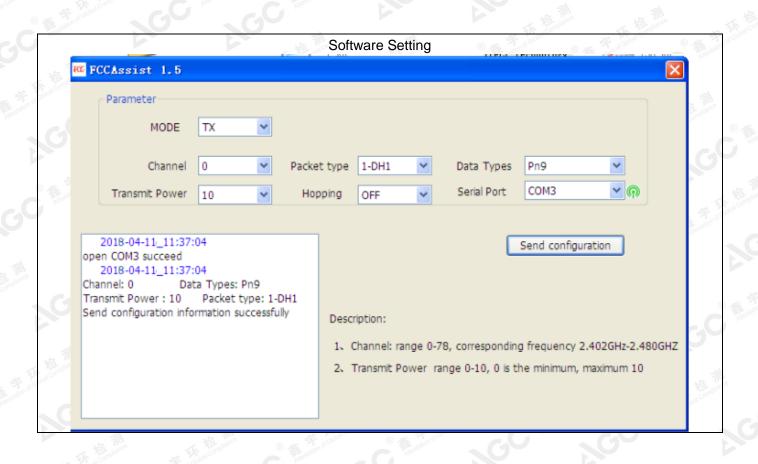
Note:

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

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			KET.	
EUT	station o	Control box	Da.	PC

5.2. EQUIPMENT USED IN EUT SYSTEM

U.L. L Q	III MENT GOLD IN LOT GIG	The state of the s			
Item Equipment		Mfr/Brand	Model/Type No.	Remark	
10	Wireless Bluetooth Earbuds	Ground	EP-052	EUT	
2	Battery	Sanxin	501012	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	GZUT	N/A	A.E	
5	USB Cable	N/A	1m unshielded	A.E	

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5.3. SUMMARY OF TEST RESULTS

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

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

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Caulamant	Manufacturer	Model	C/N	Cal Data	Col Due
Equipment	Manufacturer	wodei	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
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	LAPLACE	RF300	Station of City	Mar. 01, 2018	Feb. 28, 2020
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

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

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	2
0.490 ~ 1.705	30	24000/F(kHz)	吃那
1.705 ~ 30	30	30 (1)	E Solution of Global
30 ~ 88	3	100	40.0
88 ~ 216	3 - 6	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 The factor of the second	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)
- 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.
- 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.

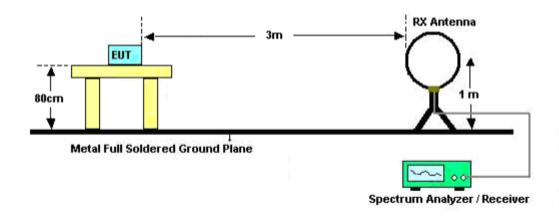
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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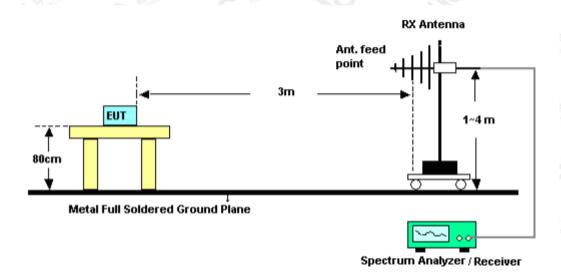


9.3. TEST SETUP

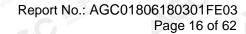
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

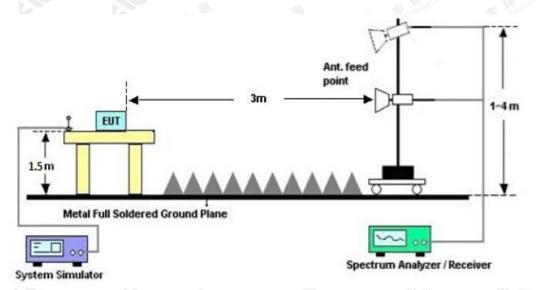


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

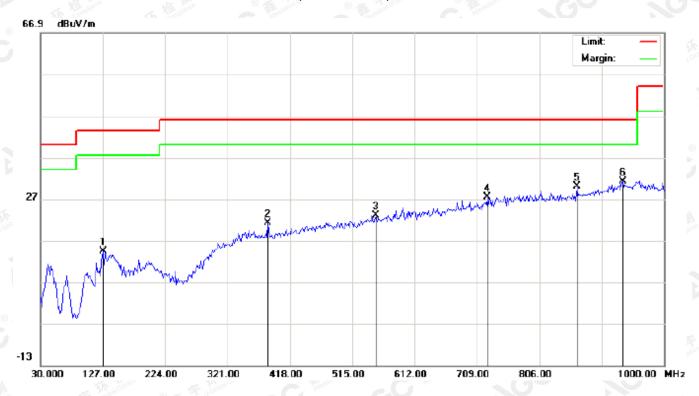
(Worst modulation: GFSK)

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	dBu∀/m	dBu∀/m	dB		cm	degree	
1		127.0000	5.25	9.13	14.38	43.50	-29.12	peak			
2		384.0500	2.16	18.96	21.12	46.00	-24.88	peak			
3		552.1833	0.50	22.53	23.03	46.00	-22.97	peak			
4		725.1667	1.48	25.93	27.41	46.00	-18.59	peak			
5		864.2000	2.36	27.68	30.04	46.00	-15.96	peak			
6	*	935.3333	1.59	29.59	31.18	46.00	-14.82	peak			

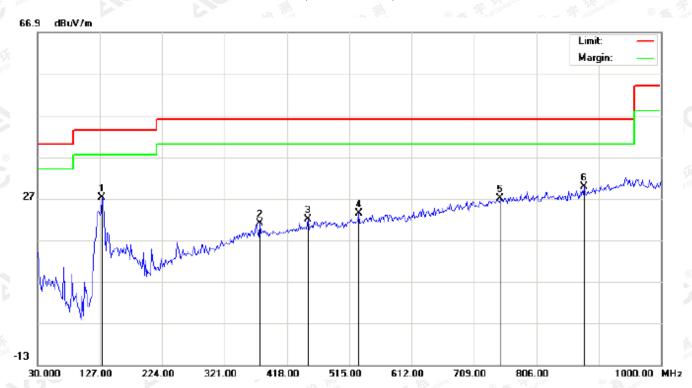
RESULT: PASS

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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
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		130.2332	16.01	11.13	27.14	43.50	-16.36	peak			
2		375.9667	2.03	18.91	20.94	46.00	-25.06	peak			
3		450.3333	1.43	20.59	22.02	46.00	-23.98	peak			
4		529.5500	1.46	21.93	23.39	46.00	-22.61	peak			
5		749.4167	0.35	26.61	26.96	46.00	-19.04	peak		·	
6	*	880.3667	1.61	28.10	29.71	46.00	-16.29	peak		·	

RESULT: PASS

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

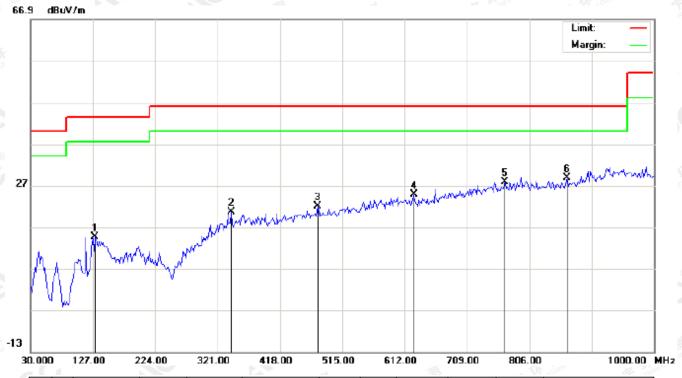
2. The "Factor" value can be calculated automatically by software of measurement system.

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1		130.2332	4.03	10.64	14.67	43.50	-28.83	peak			
312	2		342.0167	2.30	18.21	20.51	46.00	-25.49	peak			
ſ	3		476.2000	1.07	20.87	21.94	46.00	-24.06	peak			
ſ	4		626.5500	1.03	23.79	24.82	46.00	-21.18	peak			
	5		767.2000	1.00	26.87	27.87	46.00	-18.13	peak			
	6	*	864.2000	1.19	27.68	28.87	46.00	-17.13	peak			

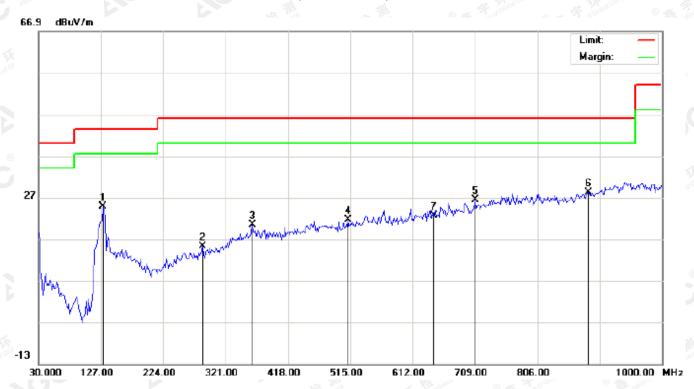
RESULT: PASS

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
5	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		130.2332	13.76	11.13	24.89	43.50	-18.61	peak			
2		285.4333	0.19	14.97	15.16	46.00	-30.84	peak			
3		363.0333	1.63	18.83	20.46	46.00	-25.54	peak			
4		511.7667	0.23	21.45	21.68	46.00	-24.32	peak			
5		709.0000	0.95	25.45	26.40	46.00	-19.60	peak			
6	*	885.2167	-0.08	28.23	28.15	46.00	-17.85	peak			
7		644.3333	-1.14	23.72	22.58	46.00	-23.42	peak			

RESULT: PASS

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

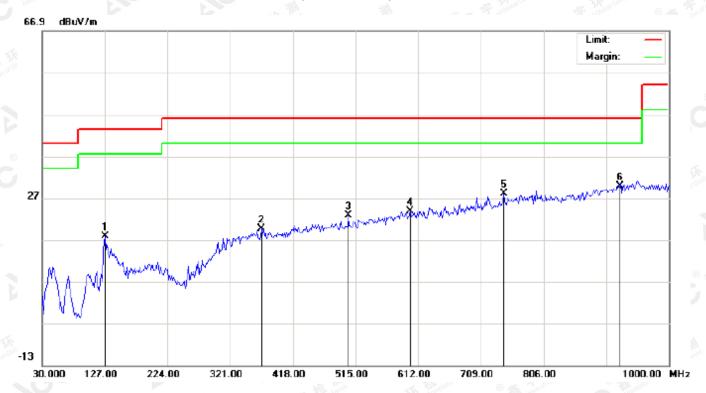
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No	. M	k Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		127.0000	8.74	9.13	17.87	43.50	-25.63	peak			
2		369.5000	0.78	18.87	19.65	46.00	-26.35	peak			
3		503.6833	1.50	21.23	22.73	46.00	-23.27	peak			
4		599.0667	0.10	23.71	23.81	46.00	-22.19	peak			
5		744.5667	1.44	26.48	27.92	46.00	-18.08	peak			
6	*	924.0167	0.60	29.28	29.88	46.00	-16.12	peak			

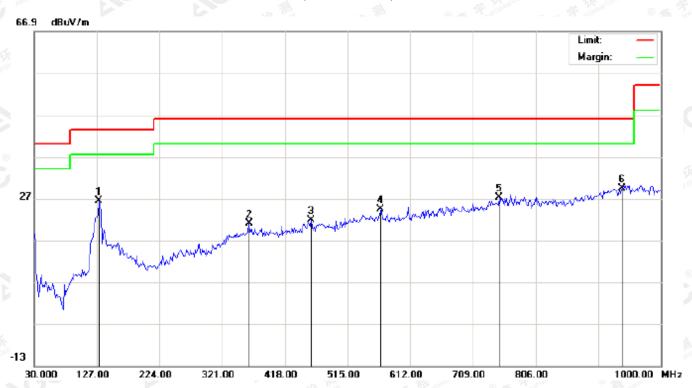
RESULT: PASS

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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
3	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		130.2332	15.26	11.13	26.39	43.50	-17.11	peak			
2		363.0332	2.13	18.83	20.96	46.00	-25.04	peak			
3		458.4166	1.07	20.68	21.75	46.00	-24.25	peak			
4		566.7332	1.79	22.56	24.35	46.00	-21.65	peak			
5		749.4166	0.59	26.61	27.20	46.00	-18.80	peak			
6	*	940.1833	-0.27	29.73	29.46	46.00	-16.54	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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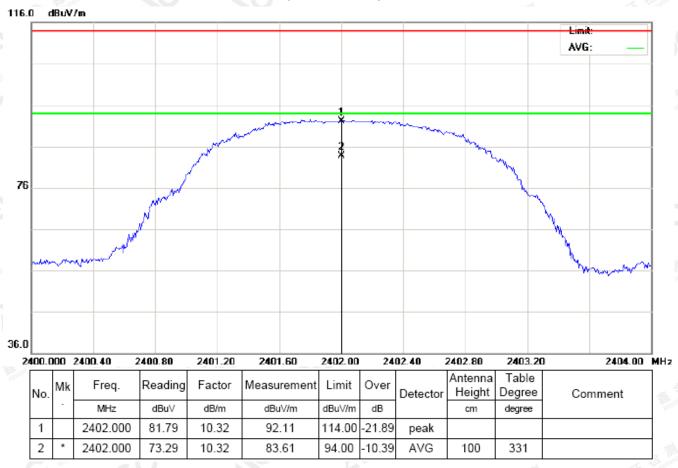
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



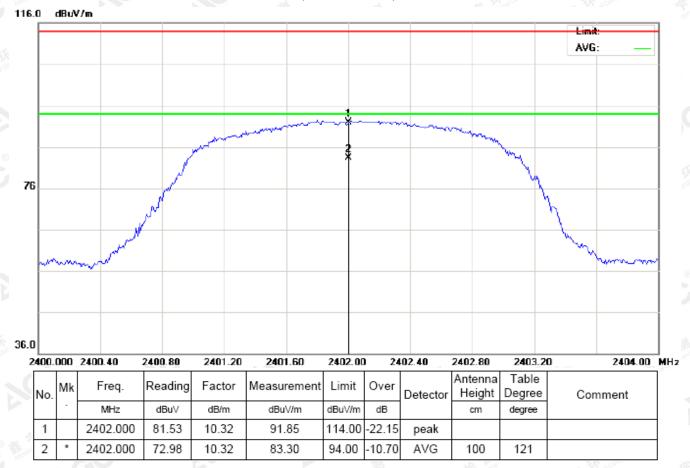
RESULT: PASS

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



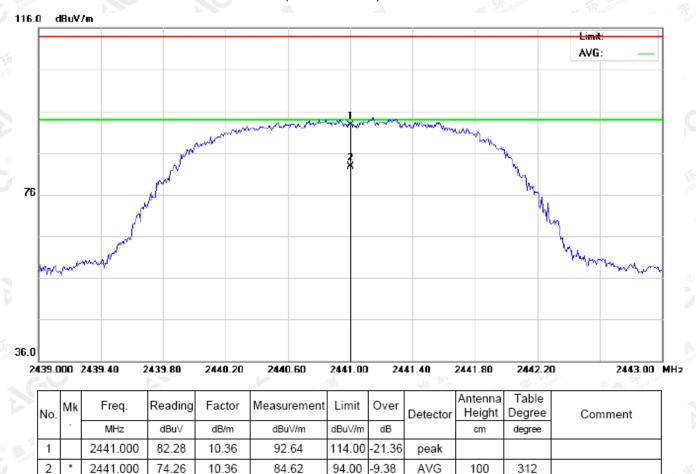
RESULT: PASS

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



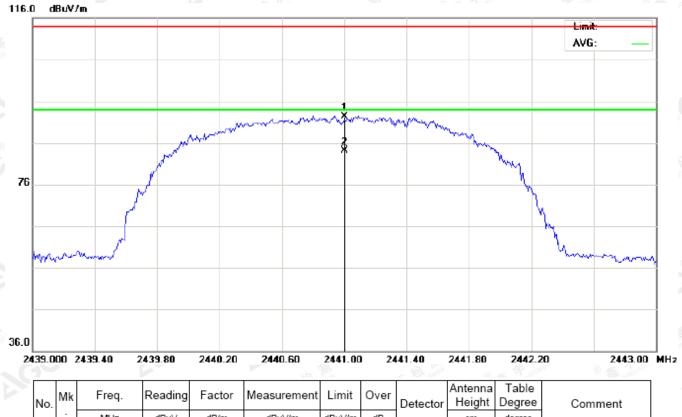
RESULT: PASS

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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
1	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	81.96	10.36	92.32	114.00	-21.68	peak			
2	*	2441.000	73.75	10.36	84.11	94.00	-9.89	AVG	100	114	

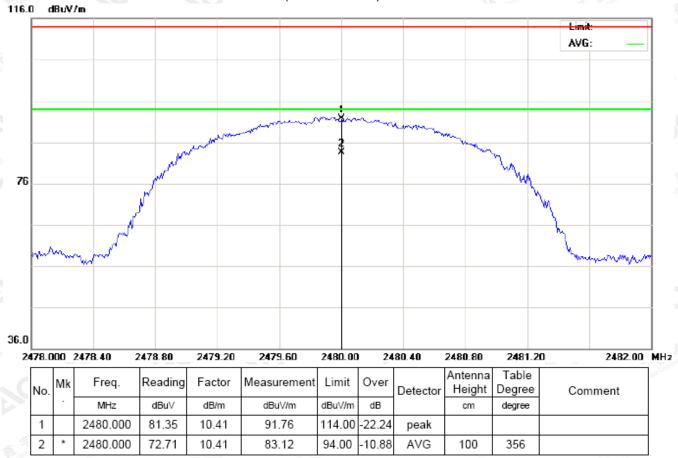
RESULT: PASS

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



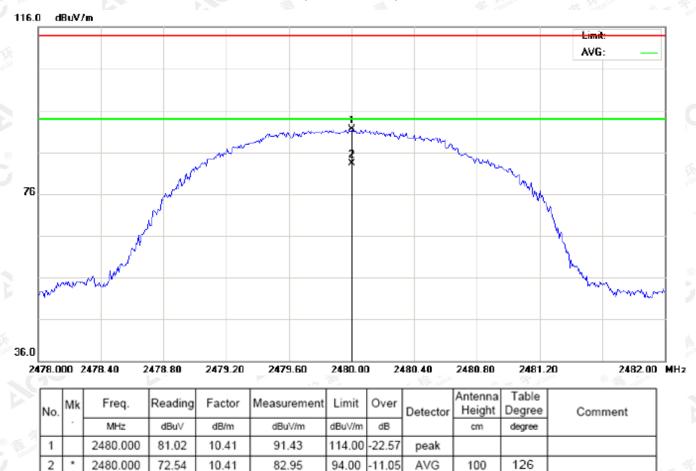
RESULT: PASS

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



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 I I		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	81.79	10.32	92.11	114	-21.89	Horizontal	
2402	81.53	10.32	91.85	114	-22.15	Vertical	
2441	82.28	10.36	92.64	114	-21.36	Horizontal	
2441	81.96	10.36	92.32	114	-21.68	Vertical	
2480	81.35	10.41	91.76	114	-22.24	Horizontal	
2480	81.02	10.41	91.43	114	-22.57	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	73.29	10.32	83.61	94	-10.39	Horizontal
2402	72.98	10.32	83.30	94	-10.70	Vertical
2441	74.26	10.36	84.62	94	-9.38	Horizontal
2441	73.75	10.36	84.11	94	-9.89	Vertical
2480	72.71	10.41	83.12	94	-10.88	Horizontal
2480	72.54	10.41	82.95	94	-11.05	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	81.31	10.32	91.63	114	-22.37	Horizontal	
2402	81.09	10.32	91.41	114	-22.59	Vertical	
2441	81.94	10.36	92.30	114	-21.70	Horizontal	
2441	81.51	10.36	91.87	114	-22.13	Vertical	
2480	80.86	10.41	91.27	114	-22.73	Horizontal	
2480	80.61	10.41	91.02	114	-22.98	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	72.84	10.32	83.16	94	-10.84	Horizontal	
2402	72.55	10.32	82.87	94	-11.13	Vertical	
2441	73.85	10.36	84.21	94	-9.79	Horizontal	
2441	73.31	10.36	83.67	94	-10.33	Vertical	
2480	72.36	10.41	82.77	94	-11.23	Horizontal	
2480	72.15	10.41	82.56	94	-11.44	Vertical	

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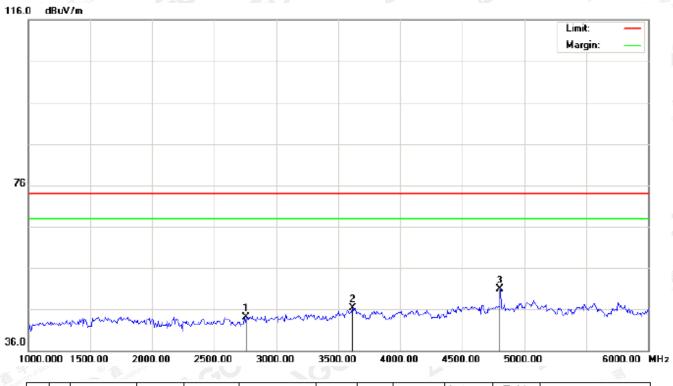


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(Worst modulation: GFSK)

For Harmonics

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



0 =												
	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		2758.333	33.00	11.06	44.06	74.00	-29.94	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			

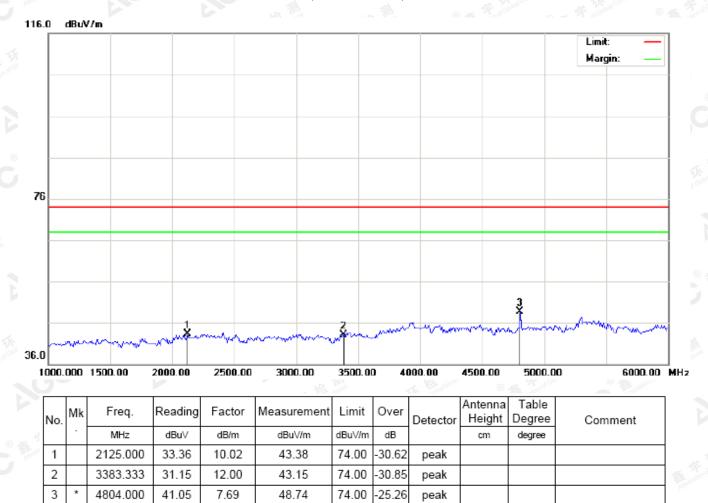
RESULT: PASS

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



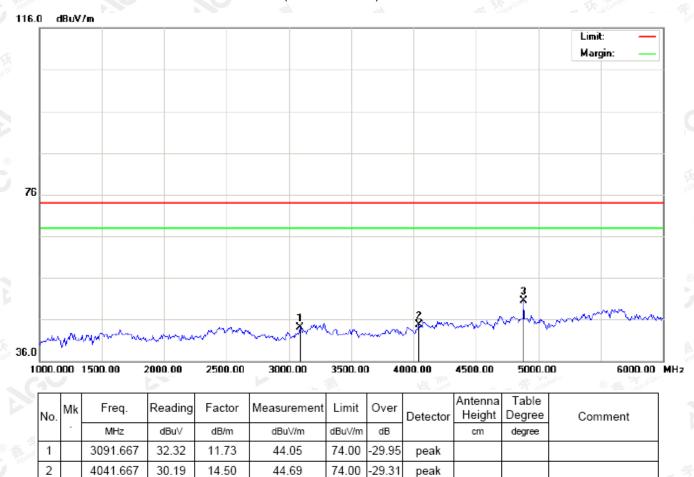
RESULT: PASS

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



74.00

-23.45

peak

RESULT: PASS

4882.000

42.66

7.89

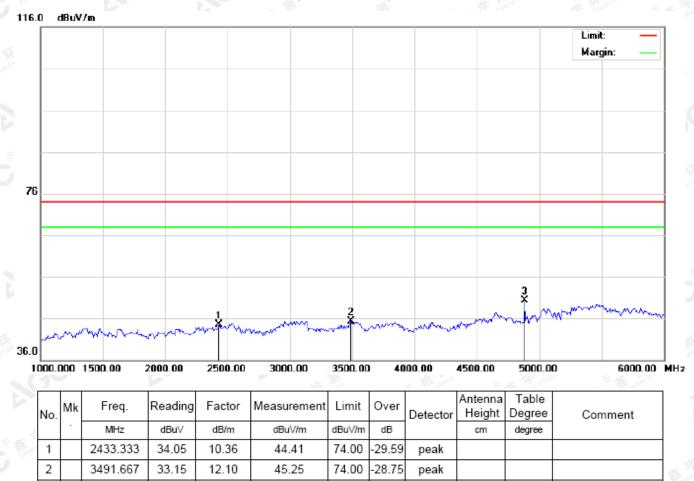
50.55

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



74.00

-23.72

peak

RESULT: PASS

4882.000

42.39

7.89

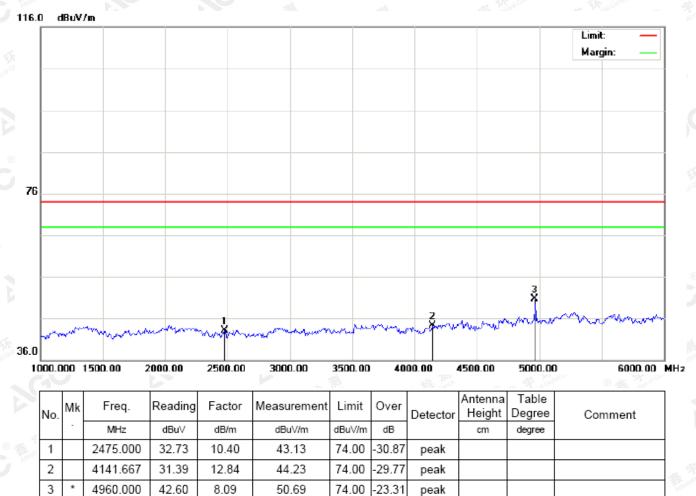
50.28

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



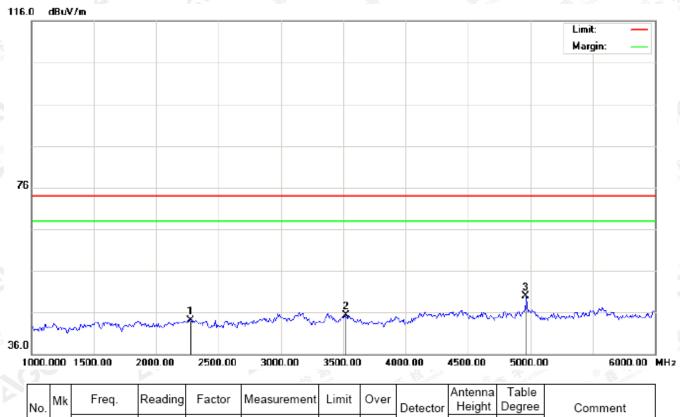
RESULT: PASS

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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
d		MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2275.000	34.02	10.18	44.20	74.00	-29.80	peak			
2		3525.000	33.02	12.26	45.28	74.00	-28.72	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

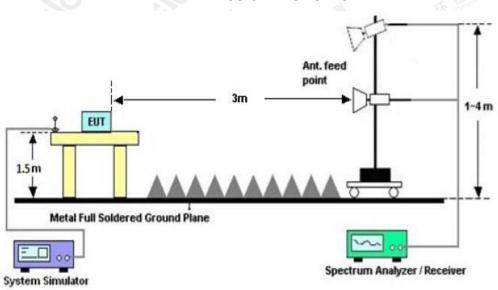
10.1. MEASUREMENT PROCEDURE

- 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(MHz)		
	2200	Kimplence	The Committee	® A station of G	2405	100
(S) ### (1)	2478	3lobal C	Allestation of Glob	-,0 "	2500	

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



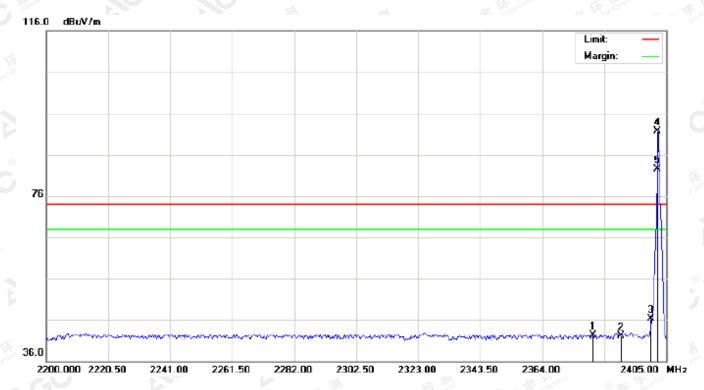
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2380.400	32.05	10.30	42.35	74.00	-31.65	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	81.80	10.32	92.12	74.00	18.12	peak			
5	Х	2402.000	73.28	10.32	83.60	74.00	9.60	AVG	100	347	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



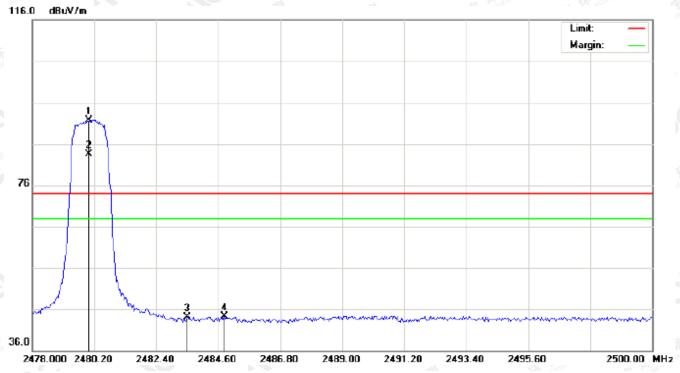
												CITY CITY
N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1			2380.741	32.03	10.30	42.33	74.00	-31.67	peak			
2	2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3	3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	ļ	*	2402.000	81.40	10.32	91.72	74.00	17.72	peak			
5	5	Х	2402.000	72.27	10.32	82.59	74.00	8.59	AVG	100	114	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



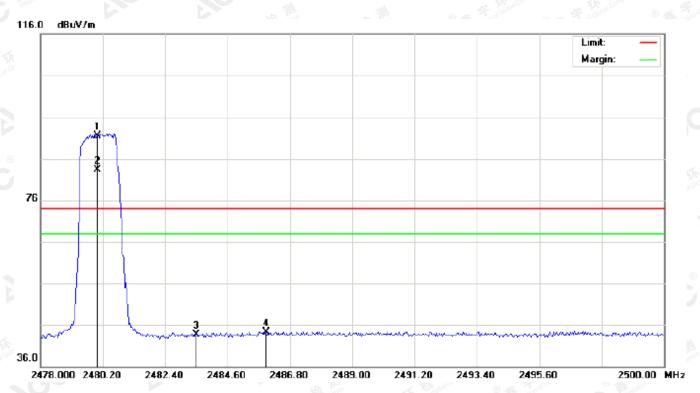
N	0.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
8 1	1	*	2480.000	81.34	10.41	91.75	74.00	17.75	peak			
2	2	Х	2480.000	73.11	10.41	83.52	74.00	9.52	AVG	100	314	
3	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4	1		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



1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
3	1	*	2480.000	81.01	10.41	91.42	74.00	17.42	peak			
	2	Х	2480.000	72.80	10.41	83.21	74.00	9.21	AVG	100	147	
Γ	3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
	4		2485.957	33.98	10.41	44.39	74.00	-29.61	peak			

RESULT: PASS

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

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

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

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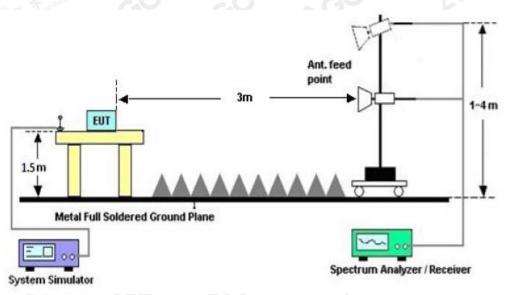
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

		4.DL 11.46		(de all) (a) (de la color de l					
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
		Measurement Result							
Applicable Limits		5 "							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The things of the state of the	Low Channel	0.907	1.072	PASS					
N/A	Middle Channel	0.906	1.080	PASS					
100	High Channel	0.904	1.067	PASS					

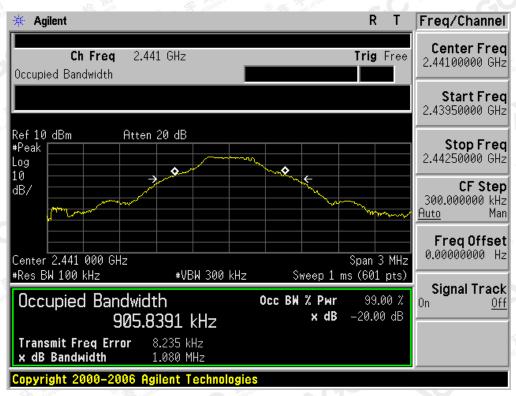
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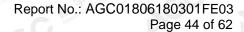
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

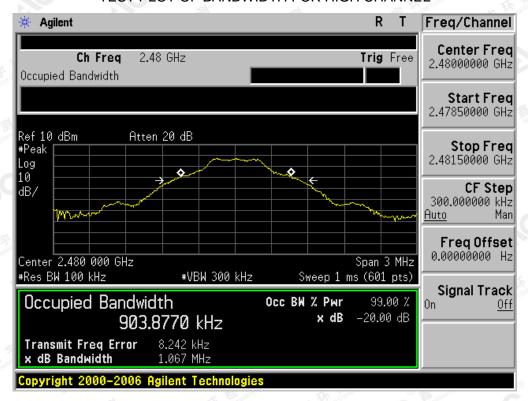


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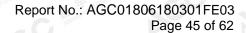




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



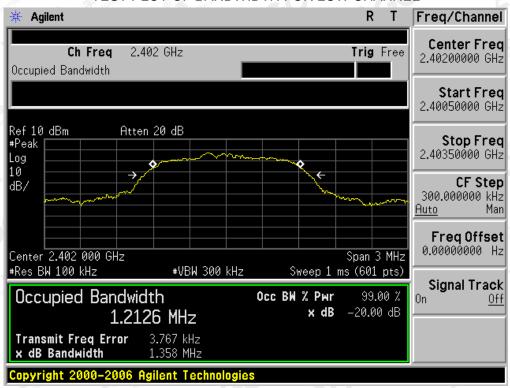
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			~ 'Y'					
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Daniel						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
TO THE	Low Channel	1.213	1.358	PASS				
N/A	Middle Channel	1.213	1.358	PASS				
	High Channel	1.210	1.381	PASS				

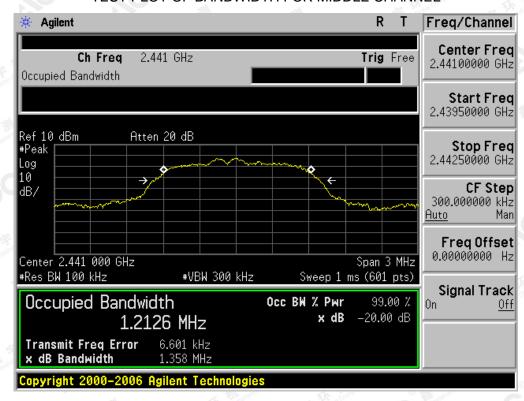
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



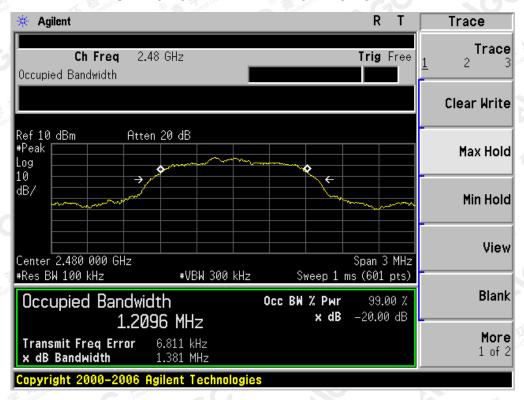
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

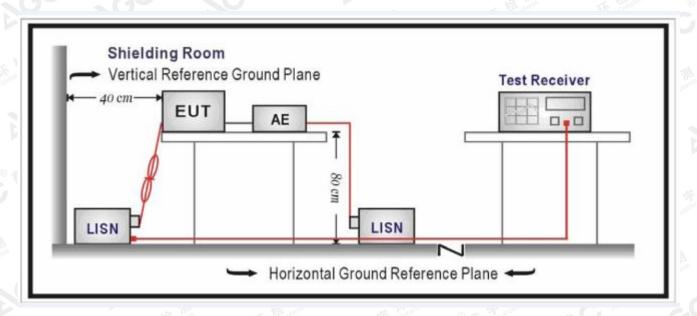
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

- 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

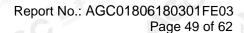
- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

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

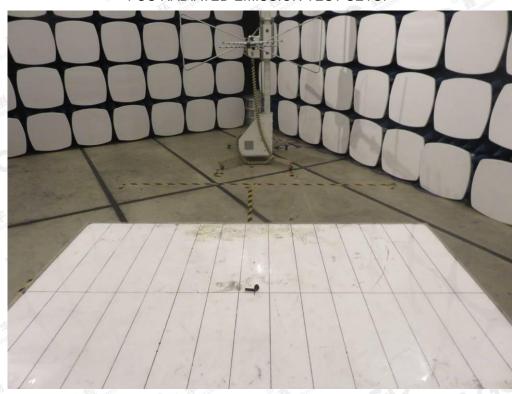
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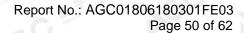
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



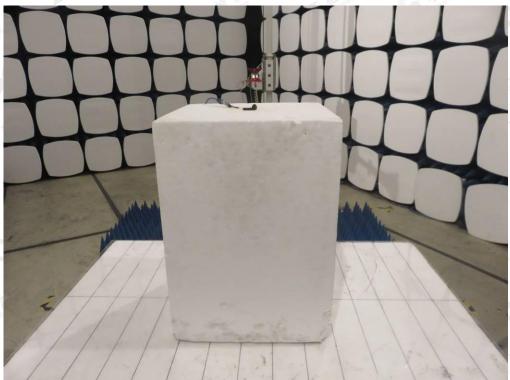


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APPENDIX B: PHOTOGRAPHS OF EUT

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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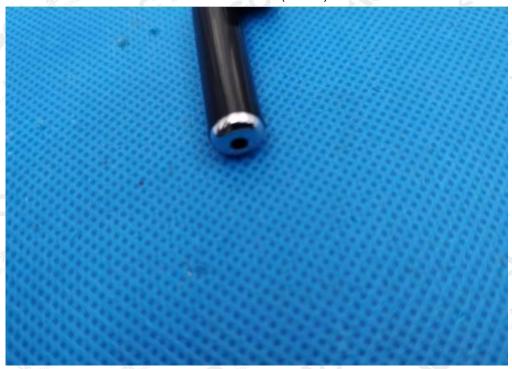
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RIGHT VIEW OF EUT



LEFTVIEW OF EUT (PORT)



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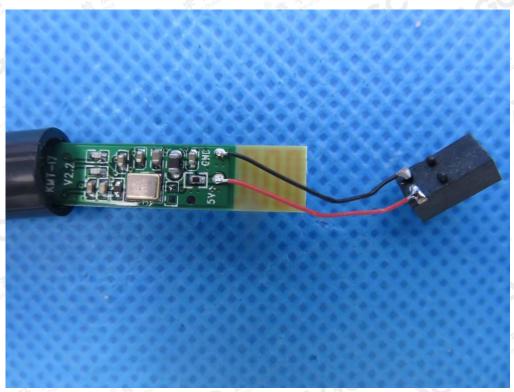
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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



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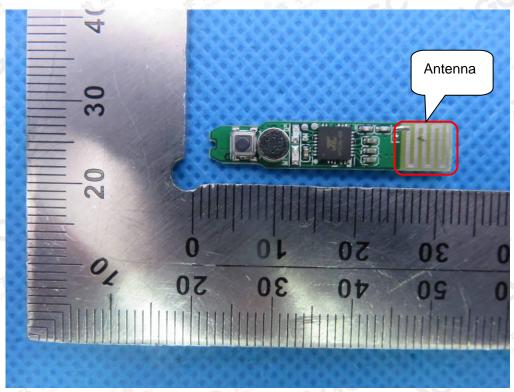
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1

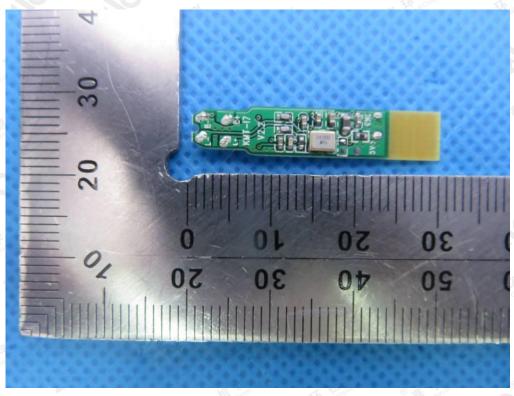


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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3

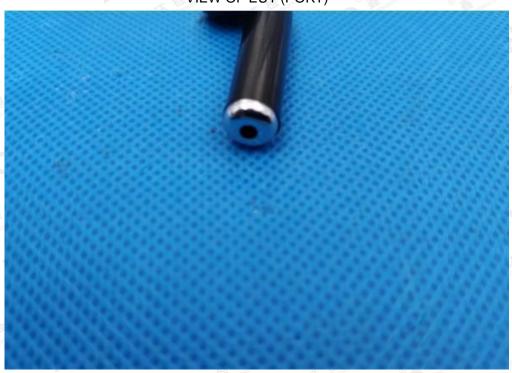


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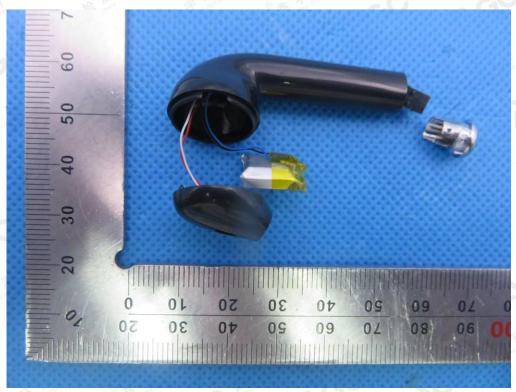
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RIGHTVIEW OF EUT (PORT)



OPEN VIEW OF EUT-1

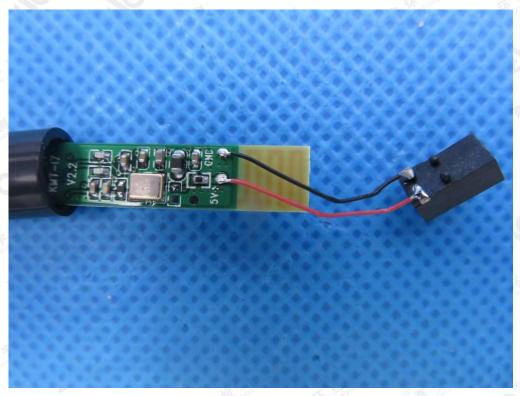


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OPEN VIEW OF EUT-2



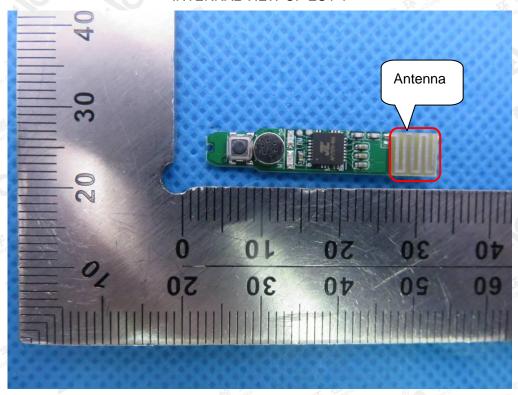
VIEW OF BATTERY



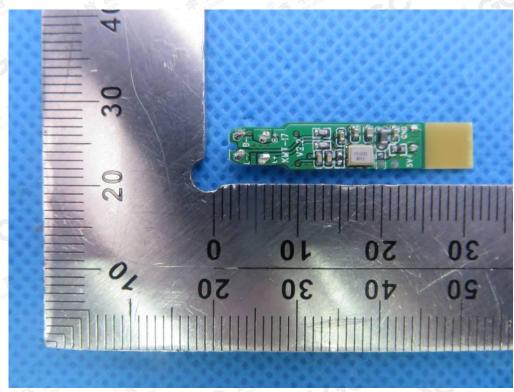
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INTERNAL VIEW OF EUT-1

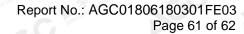


INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



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CHARGING CASE

VIEW OF EUT (PORT)-1



VIEW OF EUT (PORT)-2



----END OF REPORT----

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