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# 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

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

#### **Report Revise Record**





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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 de la companya
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

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

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Jonhan Wand

Jonhen Wang(Wang Yonghuan) Apr. 18, 2018

**Reviewed By** 

Tested By

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

<b>Operation Frequency</b>	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
Note:	

Note:

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

2. 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 the completion	0 C	2402MHz
C Marine C		2403MHz
CC NO		The standard . O Manufactoria
The state of the s	38 Same	2440 MHz
2400~2483.5MHz	39	2441 MHz
	40	2442 MHz
Those converse	C 57	2479 MHz
The start of the start	78	2480 MHz



#### 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,  $Uc = \pm 3.2 dB$
- 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 The accomments	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5 5	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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			15.7	Software S	Setting	0 5	m <sup>of Globa</sup>	The support Clobal C	8
æ Fo	CCAssist 1.5								$\mathbf{X}$
	Parameter								
	MODE	TX 💌							
	Channel	0 💌	Packe	t type 1-DH1	~	Data Types	Pn9	~	
	Transmit Power	10 🗸	Hop	pping OFF	~	Serial Port	COM3	<b>~</b>	
ope Cha Tra	2018-04-11_11:37: en COM3 succeed 2018-04-11_11:37: nnel: 0 Dat nsmit Power : 10 nd configuration info	:04 ta Types: Pn9 Packet type: 1-		Description:		L	Send config	uration	
					range 0-7	'8, correspondin	g frequency	2.402GHz-2.480G	энz
				2、Transmit	Power ra	inge 0-10, 0 is t	he minimum,	maximum 10	



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

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			Kan		Jobal Co.
EUT	station	Control box	Dio.	PC	No.

#### 5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	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.





#### 6. TEST FACILITY

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



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### 7. TEST METHOD

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

#### 8. TEST EQUIPMENT LIST

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 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	МХТ	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	МХТ	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	LAPLACE	RF300	and Contraction	Mar. 01, 2018	Feb. 28, 2020
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018





### 9. RADIATED EMISSION

#### 9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50 6	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	E England Con Call
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m

Remark: (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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#### 9.2. MEASUREMENT PROCEDURE

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)





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Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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

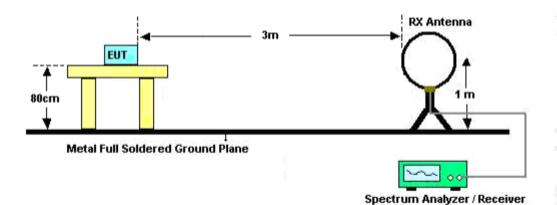


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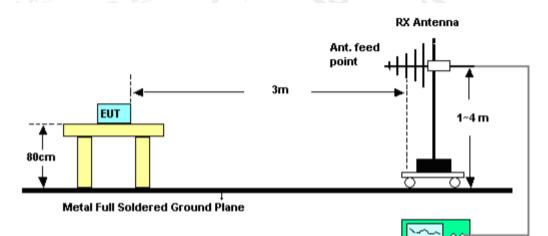
#### 9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



the second se

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



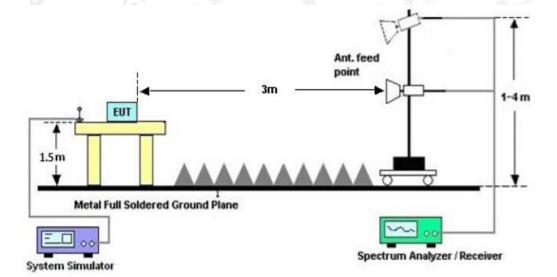
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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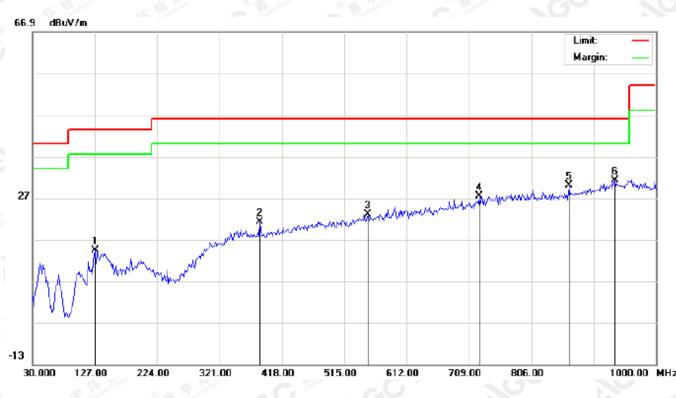
#### 9.4. TEST RESULT

(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

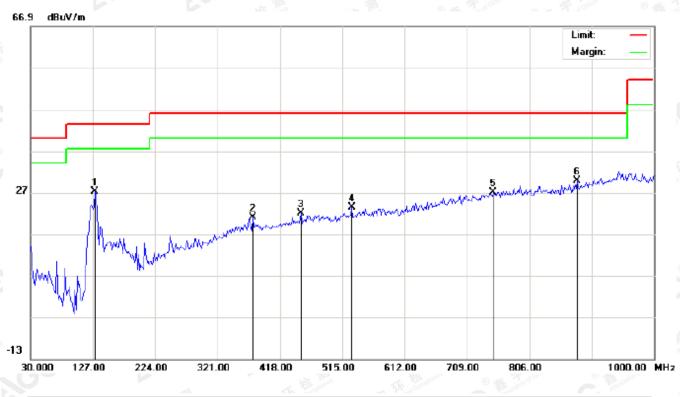


N	o. 1	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
			127.0000	5.25	9.13	14.38	43.50	-29.12	peak			
8	2		384.0500	2.16	18.96	21.12	46.00	-24.88	peak			
् • •	3		552.1833	0.50	22.53	23.03	46.00	-22.97	peak			
4	ı		725.1667	1.48	25.93	27.41	46.00	-18.59	peak			
ļ	5		864.2000	2.36	27.68	30.04	46.00	-15.96	peak			
(	5	*	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
3		-	MHz	dBu∨	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
	1		130.2332	16.01	11.13	27.14	43.50	-16.36	peak			
ſ	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			
1	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.





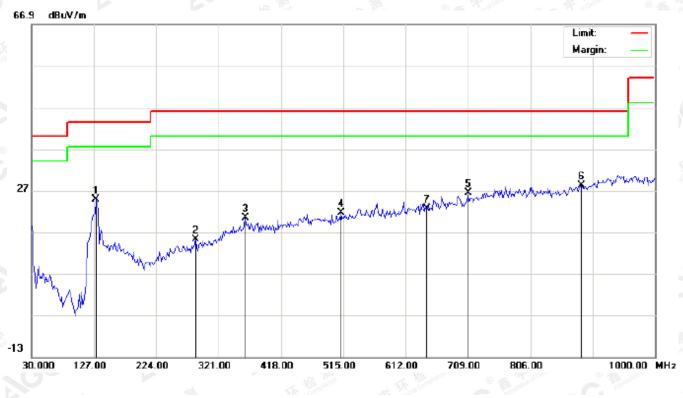
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
1		130.2332	4.03	10.64	14.67	43.50	-28.83	peak				
2		342.0167	2.30	18.21	20.51	46.00	-25.49	peak				
3		476.2000	1.07	20.87	21.94	46.00	-24.06	peak				雪
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				N.

**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
5	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/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			

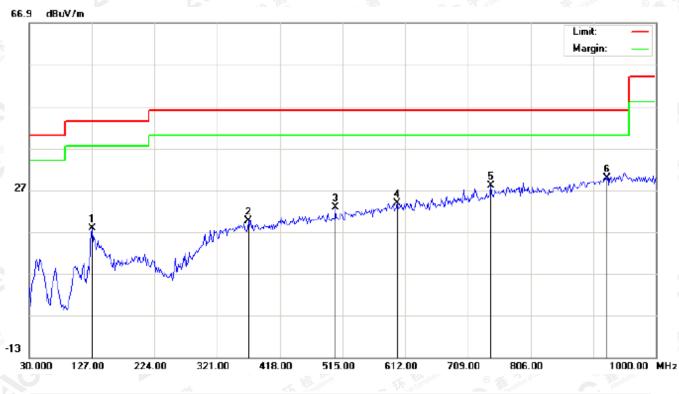
#### **RESULT: PASS**

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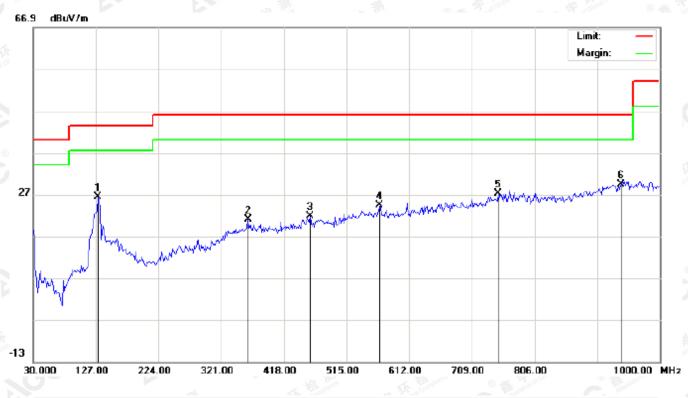
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		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		Comment
3		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
50	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			
1	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.





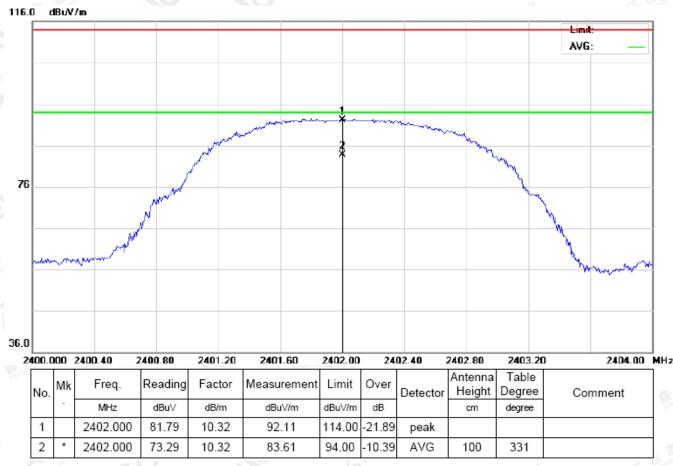
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#### **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: GFSK)

#### For Fundamental

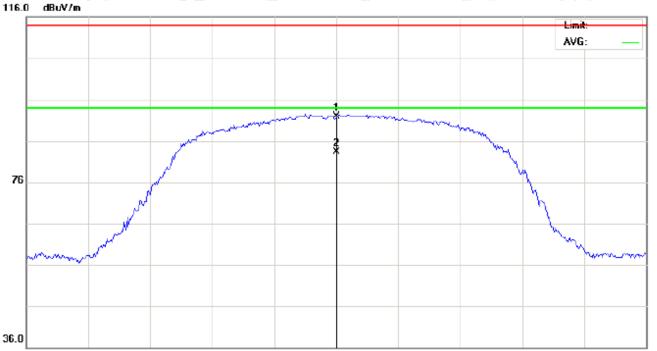
RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



**RESULT: PASS** 



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

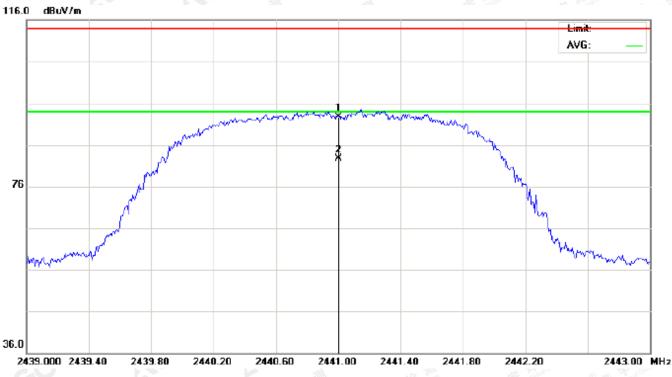
2	400.0	000	2400.40	2400.80	2401.20	2401.60	2402.00	) 24	02.40	2402.80	2403.20	0 2404.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment	
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
	1		2402.000	81.53	10.32	91.85	114.00	-22.15	peak				]
	2	*	2402.000	72.98	10.32	83.30	94.00	-10.70	AVG	100	121		]

**RESULT: PASS** 





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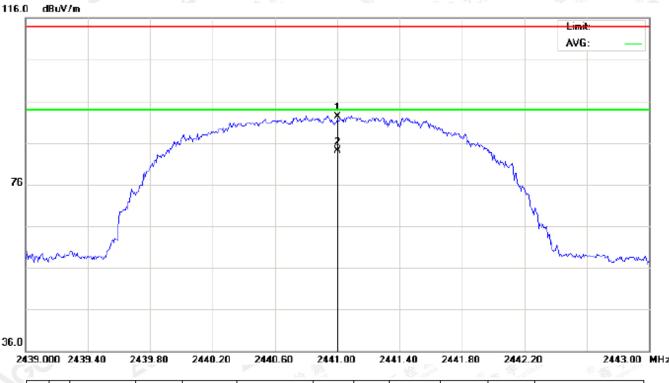
RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

												O ASE AND
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
510	1		2441.000	82.28	10.36	92.64	114.00	-21.36	peak			
	2	*	2441.000	74.26	10.36	84.62	94.00	-9.38	AVG	100	312	

**RESULT: PASS** 



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

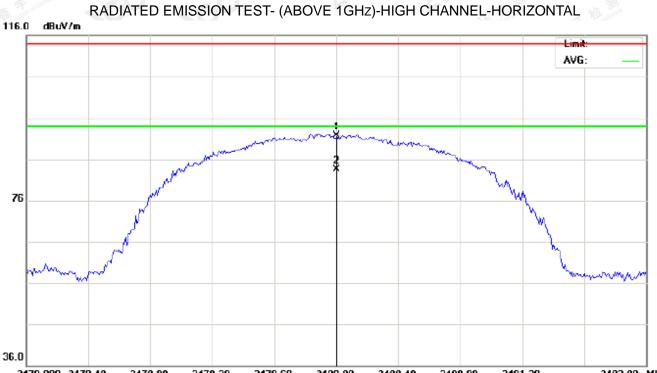
No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
*		MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2441.000	81.96	10.36	92.32	114.00	-21.68	peak			
2	*	2441.000	73.75	10.36	84.11	94.00	-9.89	AVG	100	114	

RESULT: PASS

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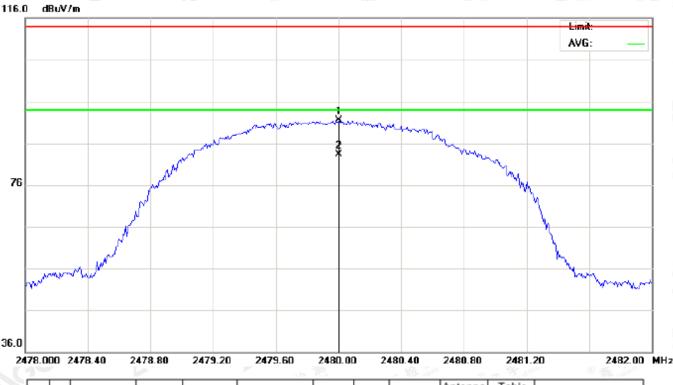
24	478.0	000	2478.40	2478.80	2479.20	2479.60	2480.00	24	80.40	2480.80	2481.2	0 2482.00	MH:
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	palCol
		-	MHz	dBu∨	dB/m	dBu\/m	dBu∀/m	dB	1	cm	degree		
	1		2480.000	81.35	10.41	91.76	114.00	-22.24	peak				1
	2	*	2480.000	72.71	10.41	83.12	94.00	-10.88	AVG	100	356		1

**RESULT: PASS** 





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

						5.122			- N.S. 1101	(a)		2532 1010
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
ali	1		2480.000	81.02	10.41	91.43	114.00	-22.57	peak			
	2	•	2480.000	72.54	10.41	82.95	94.00	-11.05	AVG	100	126	

#### **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	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



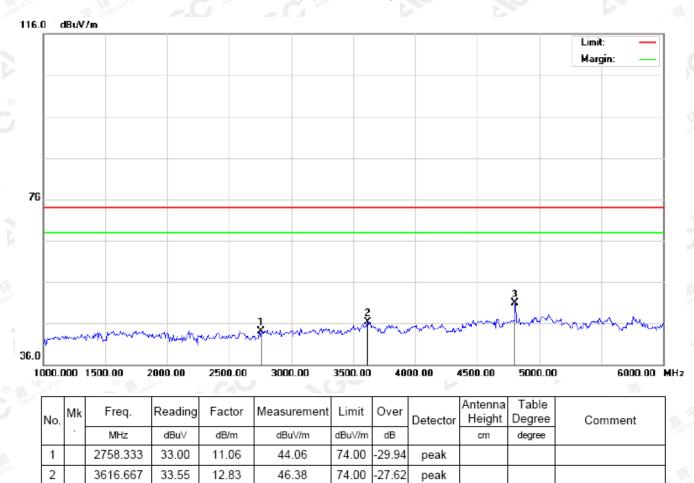


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#### (Worst modulation: GFSK)

#### For Harmonics

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



74.00

23.10

peak

#### **RESULT: PASS**

4804.000

43.21

7.69

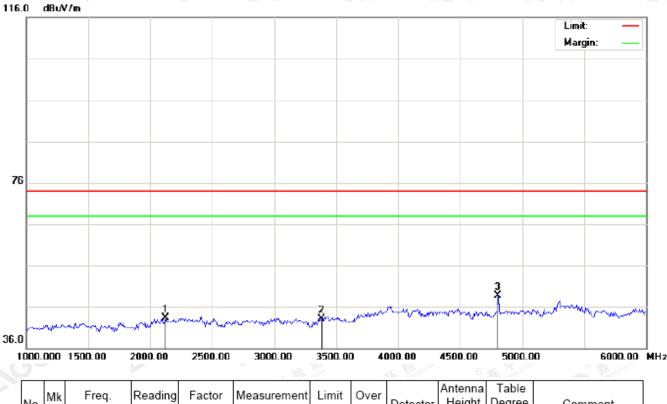
50.90

3





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

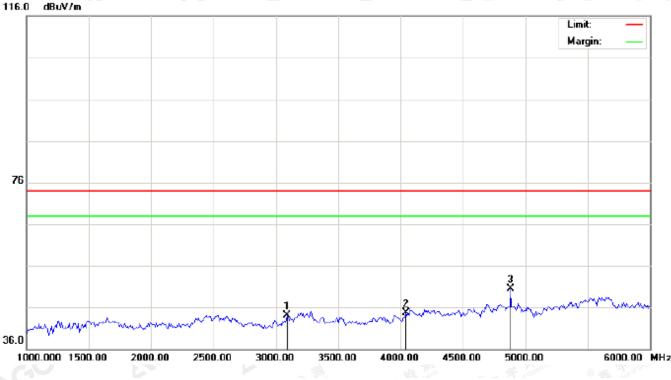
N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ġ		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
15	1		2125.000	33.36	10.02	43.38	74.00	-30.62	peak			
	2		3383.333	31.15	12.00	43.15	74.00	-30.85	peak			
	3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

**RESULT: PASS** 





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

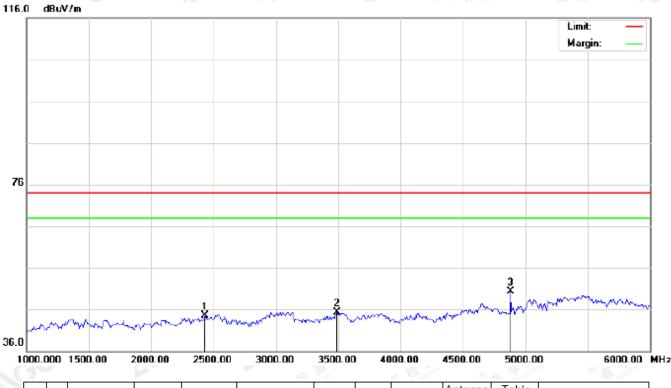
						- Pea	17		10.4239 (2000).			
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
×		•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
ai	1		3091.667	32.32	11.73	44.05	74.00	-29.95	peak			
	2		4041.667	30.19	14.50	44.69	74.00	-29.31	peak			
	3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

**RESULT: PASS** 





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

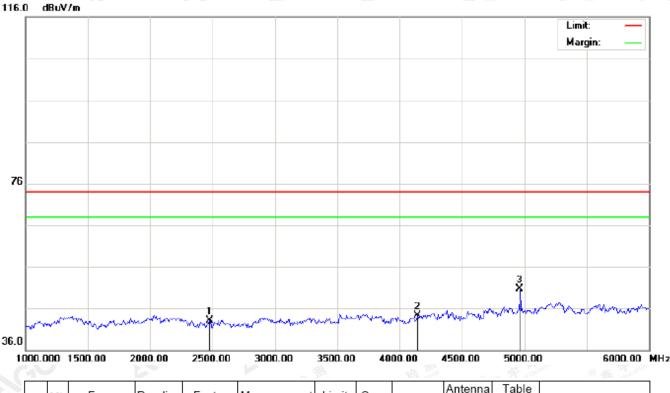
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2433.333	34.05	10.36	44.41	74.00	-29.59	peak			
2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

**RESULT: PASS** 





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

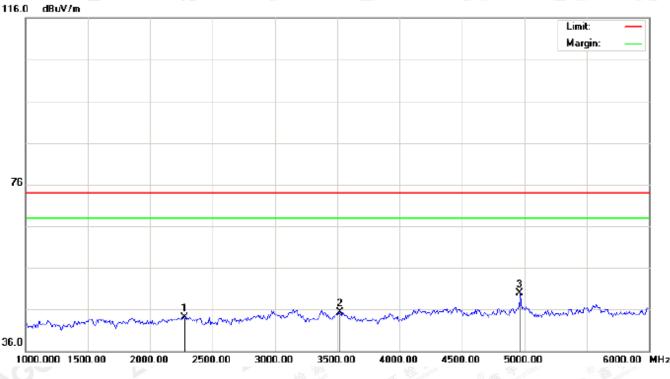
N	o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1			2475.000	32.73	10.40	43.13	74.00	-30.87	peak			
2	2		4141.667	31.39	12.84	44.23	74.00	-29.77	peak			
3	3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

**RESULT: PASS** 





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

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		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

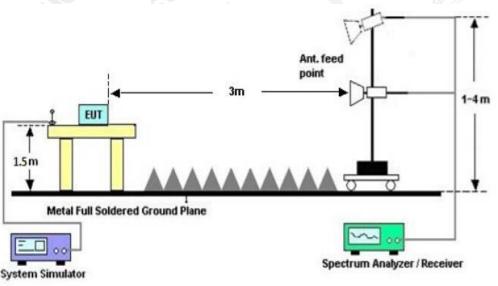
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency	y(MHz)	Stop frequency(MHz)				
2200	· 电···································	nce C Stratter	2405	SC -		
2478	C Austano of Gou	GO	2500			
Aller Aller						

#### 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



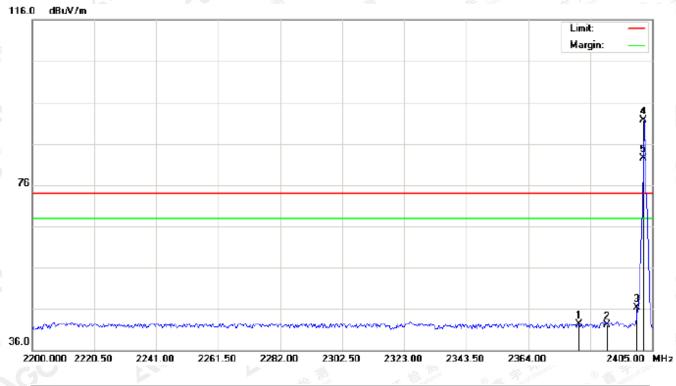
_ I	NO.								Detector	mongine	209.00	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		2380.400	32.05	10.30	42.35	74.00	-31.65	peak			
	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
1	3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
	4	*	2402.000	81.80	10.32	92.12	74.00	18.12	peak			
	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

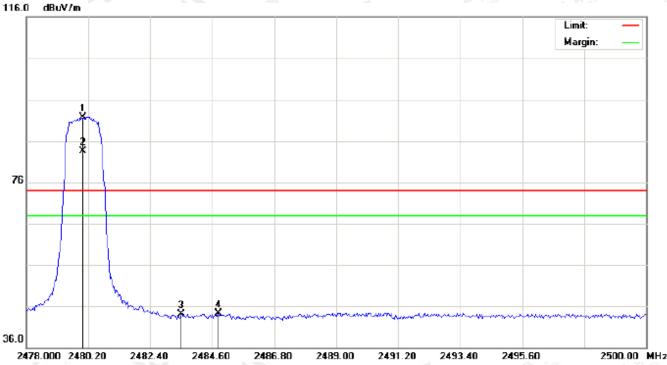
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2380.741	32.03	10.30	42.33	74.00	-31.67	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	81.40	10.32	91.72	74.00	17.72	peak			
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

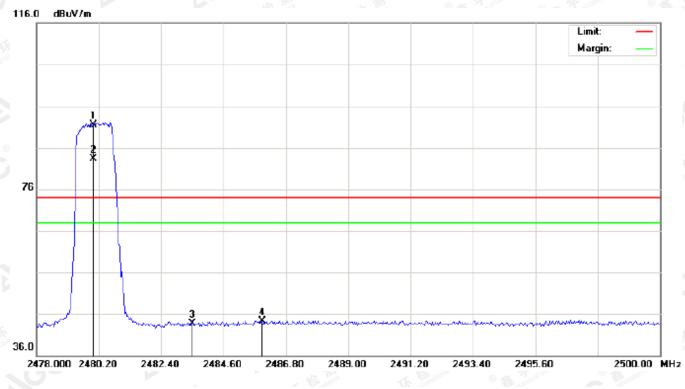
		20 C							-11157-		S 10	OP''
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
*	1	*	2480.000	81.34	10.41	91.75	74.00	17.75	peak			
ativ	2	Х	2480.000	73.11	10.41	83.52	74.00	9.52	AVG	100	314	
	3		2483.500	33.69	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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	cm degree	
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	
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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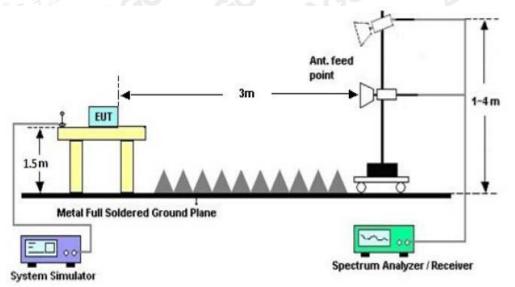
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# 11. 20DB BANDWIDTH

#### **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  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

# 11.2. TEST SET-UP

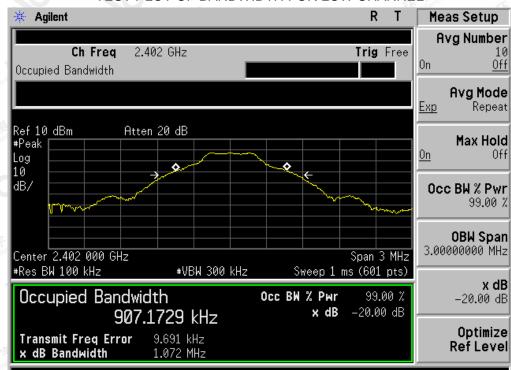


## 11.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits		Day K						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
the The second second	Low Channel	0.907	1.072	PASS				
N/A	Middle Channel	0.906	1.080	PASS				
	High Channel	0.904	1.067	PASS				

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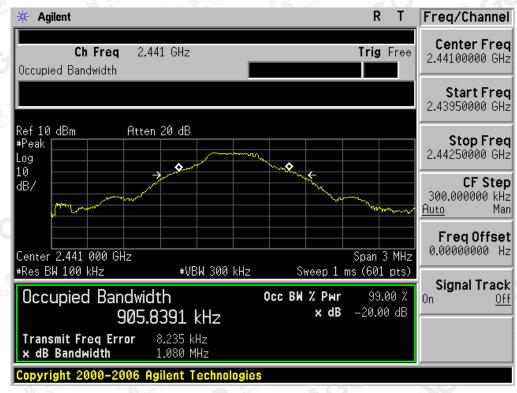


#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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# TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	OOTH 2MBPS LIN	ITS AND MEASU	REMENT RESULT					
	Measurement Result							
Applicable Limits		Dec. H						
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The the and	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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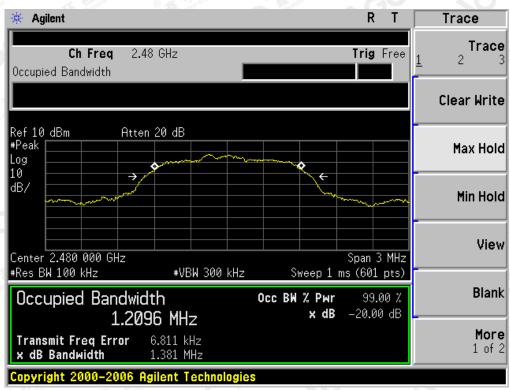
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# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# **12. FCC LINE CONDUCTED EMISSION TEST**

#### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

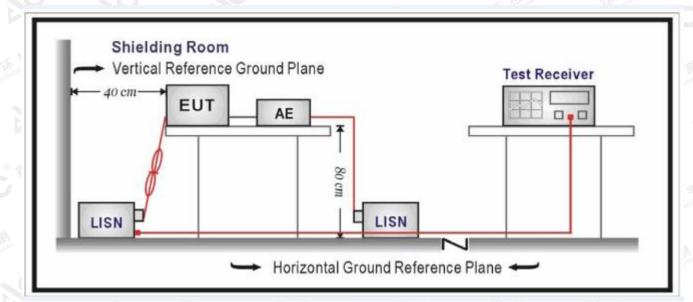
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.( dBuV)	Average( dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

Note:

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

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

## 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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#### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

## 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 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.

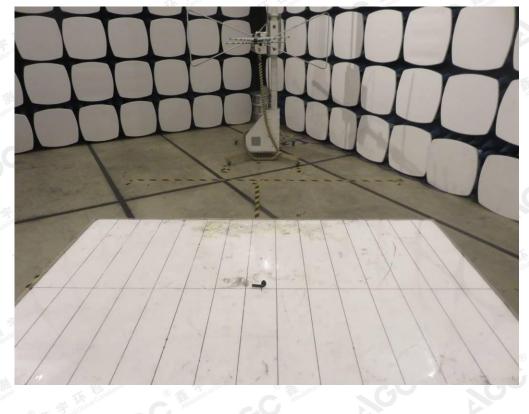
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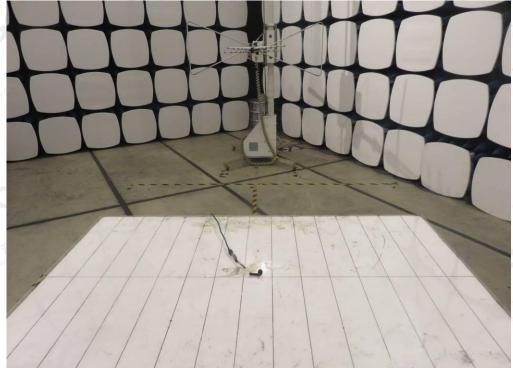




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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP



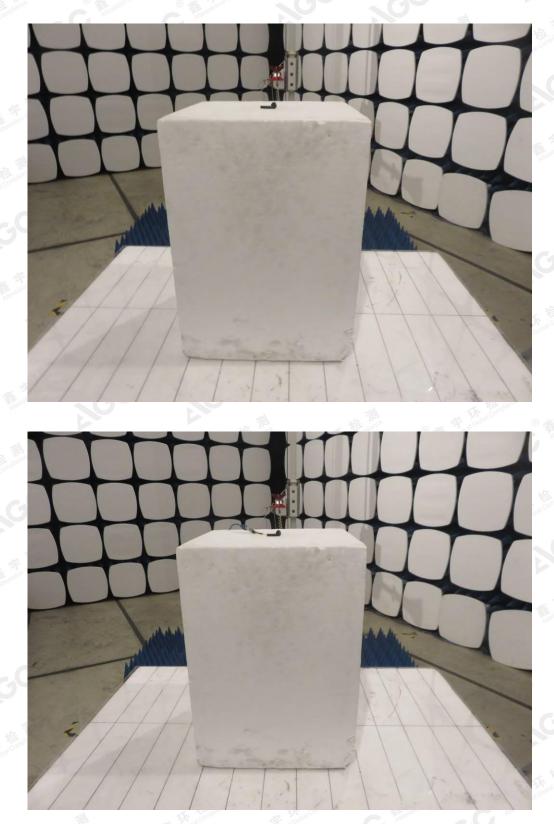


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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT





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0,9

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FRONT VIEW OF EUT

0,2

06 001

06 001 01

0.7

0.8

BOTTOM VIEW OF EUT

Ó oor 0,9 00 00L 

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# BACK VIEW OF EUT



LEFT VIEW OF EUT



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# **RIGHT VIEW OF EUT**



**LEFT** VIEW OF EUT (PORT)



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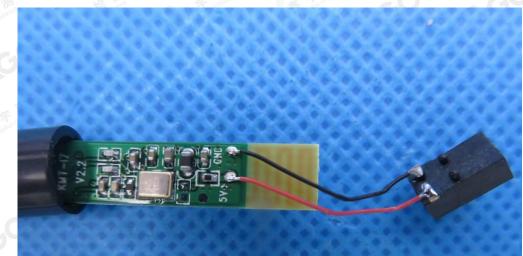


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#### **OPEN VIEW OF EUT-1**



#### **OPEN VIEW OF EUT-2**



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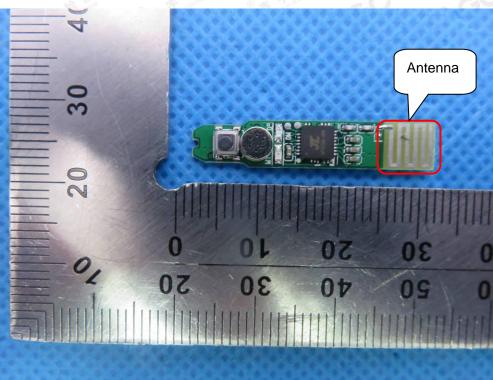




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### VIEW OF BATTERY





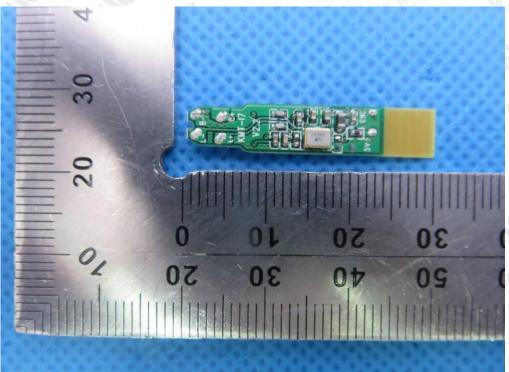
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## **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



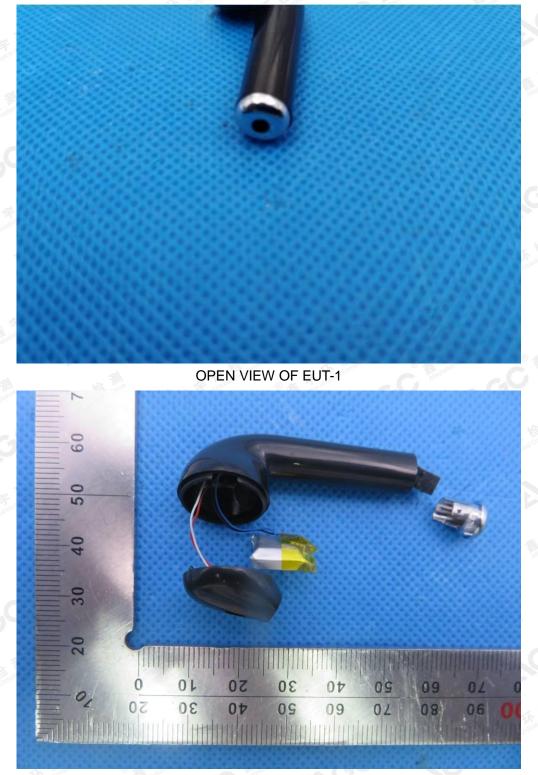
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**RIGHT** VIEW OF EUT (PORT)



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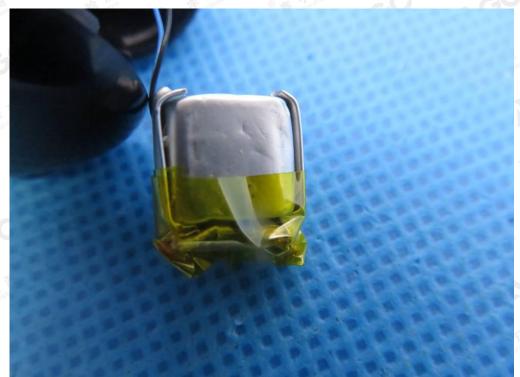


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## **OPEN VIEW OF EUT-2**



**VIEW OF BATTERY** 



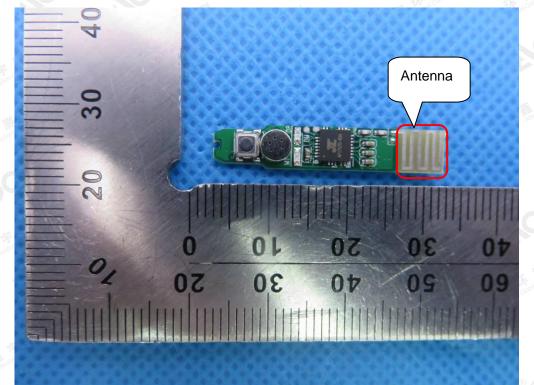
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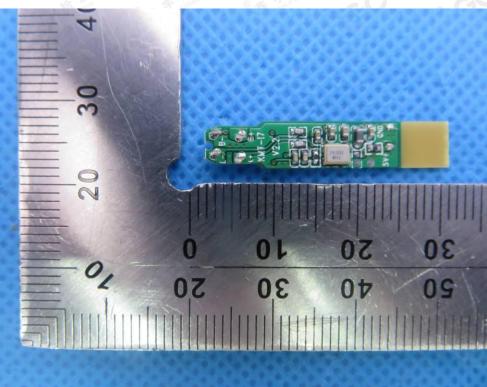


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#### **INTERNAL VIEW OF EUT-1**



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



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## **INTERNAL VIEW OF EUT-3**



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# CHARGING CASE VIEW OF EUT (PORT)-1



# VIEW OF EUT (PORT)-2

# ----END OF REPORT----

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