

# **FCC Test Report**

Report No.: AGC00435180601FE03

FCC ID : 2AL9B-MZX120

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: WIRELESS STEREO EARBUDS

**BRAND NAME** : S.LAI

MODEL NAME : MZX 120

**CLIENT**: SHENZHEN SHENGLAI TECHNOLOGY CO., LIMITED

**DATE OF ISSUE** : Jun. 26, 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	plience / © Marie	Jun. 26, 2018	Valid	Initial release

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#### 1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN SHENGLAI TECHNOLOGY CO.,LIMITED
Address	ROOM 709, BLOCK B, XINTIAN CENTURY BUSINESS CENTRE, FUMING ROAD, FUTIAN DISTRICT, SHENZHEN, CHINA
Manufacturer	SHENZHEN SHENGLAI TECHNOLOGY CO.,LIMITED
Address	ROOM 709, BLOCK B, XINTIAN CENTURY BUSINESS CENTRE, FUMING ROAD, FUTIAN DISTRICT, SHENZHEN, CHINA
Product Designation	WIRELESS STEREO EARBUDS
Brand Name	S.LAI
Test Model	MZX 120
Date of test	Jun. 21, 2018 to Jun. 25, 2018
Deviation	None San
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.

	Honry Zhang	
Tested By		
	Henry Zhang(Zhang Zhuorui)	Jun. 25, 2018
	and change	
Reviewed By	1 0	10 TH
	Cool Cheng(Cheng Mengguo)	Jun. 26, 2018
	Forrest ce	
Approved By		授調
	Forrest Lei(Lei Yonggang)  Authorized Officer	Jun. 26, 2018



#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	3.62dBm(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	V1.0
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note:	

The USB port only used for charging and can't be used to transfer data with PC.

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

#### 2.2. TABLE OF CARRIER FREQUENCYS

**BR/EDR Channel List** 

Frequency Band	Channel Number	Frequency
極調	OF doubles	2402MHz
@ # Find Cloud Comm	GC 1	2403MHz
	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
CG Miller Mark	40	2442 MHz
		T. B.
111	77	2479 MHz
Carpat Compiles (S. Santas and S. Santas and	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

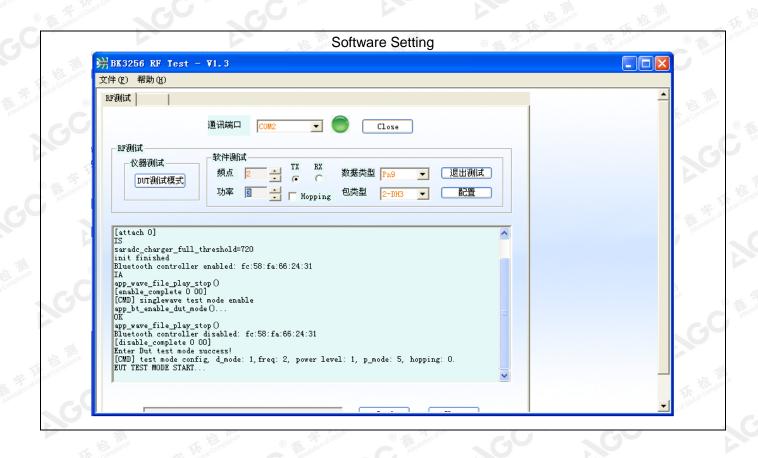
#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION				
1 K to companie	Low channel GFSK				
© 2 2 · · · · · · · · · · · · · · · · ·	Middle channel GFSK				
3	High channel GFSK				
4	Low channel π /4-DQPSK				
5 K 1000000	Middle channel π /4-DQPSK				
6	High channel π /4-DQPSK				
7	Low channel 8DPSK				
8	Middle channel 8DPSK				
The state of the s	High channel 8DPSK				
10	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)

			KEL.	
EUT	ig station of	Control box	O.a.	PC

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

- fill		700			
Item	Equipment	Mfr/Brand	Model/Type No.	18 The 18 Th	
10	WIRELESS STEREO EARBUDS	S.LAI	MZX 120		
2	Battery	GYD	501030	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	BEKEN	N/A	A.E	
5	USB Cable	N/A	1m unshielded	A.E	
6	IPOD	APPLE	A1367	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

part and the second sec				
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
Equipment	Wanuracturer	Wodei	3/IN	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	June 6, 2018	June 5, 2019
Radiation Cable 2	MXT	RS1	R006	June 6, 2018	June 5, 2019
Loop Antenna	A.H.Systems,Inc	SAS-562B	alation of Color	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2018	Jun.19, 2019



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#### 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	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(μV)/m				
0.009 ~ 0.490	300	2400/F(kHz)	2				
0.490 ~ 1.705	30	24000/F(kHz)	吃那				
1.705 ~ 30	30	30 (1)	E Sobolico Coloro				
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 $\mu$  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

- 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.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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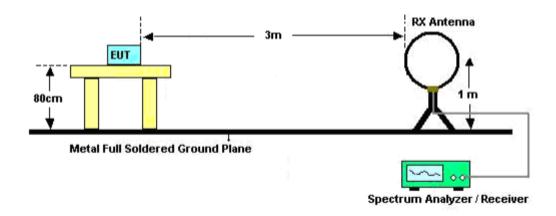
The following table is the setting of spectrum analyzer and receiver.

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

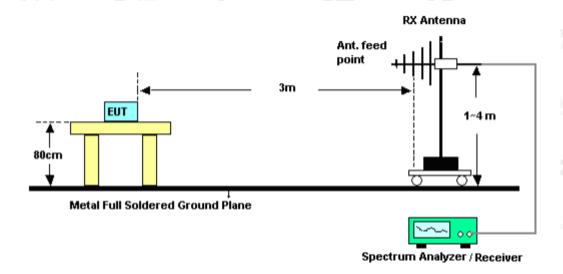


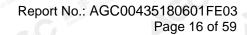
#### 9.3. TEST SETUP

#### RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



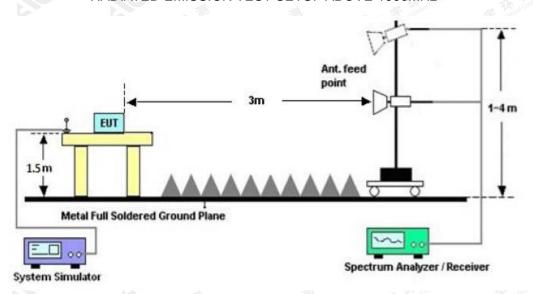
#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz







### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 9.4. TEST RESULT

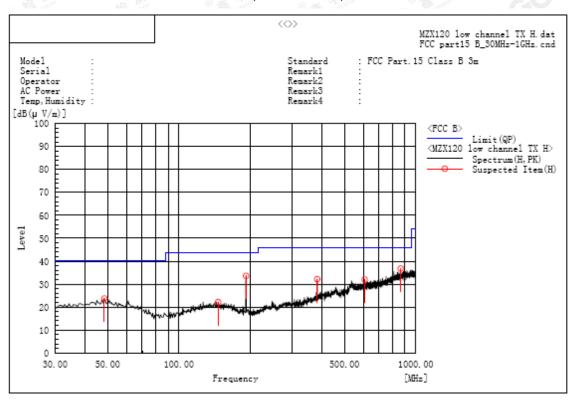
(Worst modulation: GFSK)

#### **RADIATED EMISSION BELOW 30MHz**

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

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

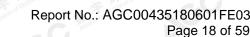
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



#### A. Suspected List:

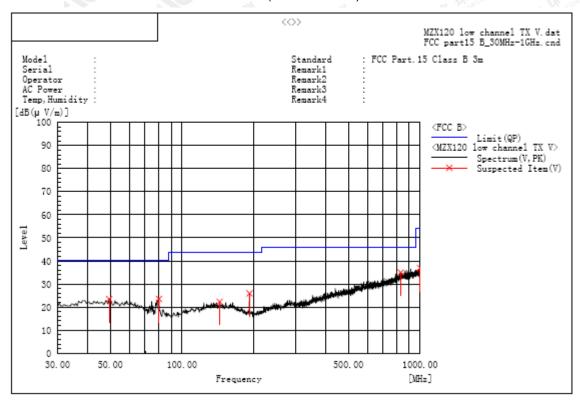
. 6 23	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	48.430	H	6.6	17.1	23.7	40.0	16.3	Pass	150.0	213.7
	146.400	Н	5.6	16.6	22.2	43.5	21.3	Pass	200.0	101.2
	191.990	Н	19.9	13.7	33.6	43.5	9.9	Pass	150.0	251.4
	383.565	Н	12.0	20.2	32.2	46.0	13.8	Pass	100.0	144.5
	608.120	Н	6.9	25.1	32.0	46.0	14.0	Pass	100.0	108.7
,	863.715	Н	7.0	29.8	36.8	46.0	9.2	Pass	200.0	101.2

**RESULT: PASS** 





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



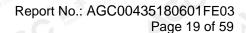
#### A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	49.400	V	6.4	17.1	23.5	40.0	16.5	Pass	200.0	222.7
Г	79.955	V	11.2	12.3	23.5	40.0	16.5	Pass	200.0	331.9
Г	143.975	V	5.7	16.6	22.3	43.5	21.2	Pass	100.0	149.3
	191.990	V	12.3	13.7	26.0	43.5	17.5	Pass	150.0	263.3
3	829.280	v	5.7	29.3	35.0	46.0	11.0	Pass	200.0	115.0
Г	999.030	v	5.8	31.1	36.9	54.0	17.1	Pass	100.0	78.4

#### **RESULT: PASS**

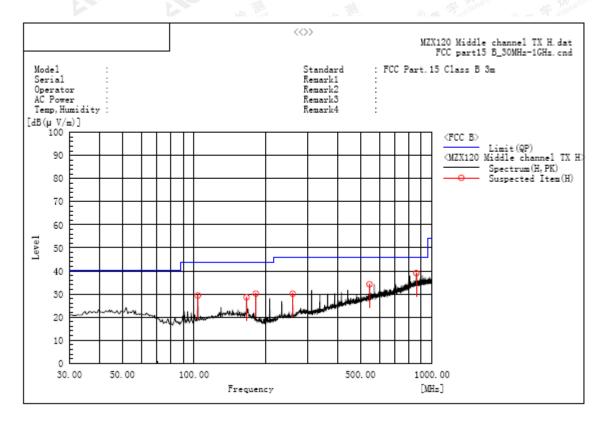
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





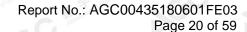
### RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



#### A. Suspected List:

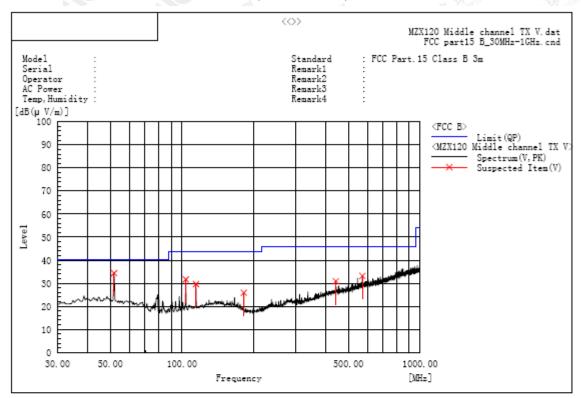
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u√/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
103.720	Н	15.5	13.9	29.4	43.5	14.1	Pass	150.0	312.3
166.285	Н	12.3	16.3	28.6	43.5	14.9	Pass	200.0	161.3
181.805	Н	15.8	14.4	30.2	43.5	13.3	Pass	150.0	334.9
259.890	Н	14.2	15.9	30.1	46.0	15.9	Pass	100.0	313.9
546.040	Н	10.4	23.8	34.2	46.0	11.8	Pass	150.0	66.8
858.380	Н	9.3	29.7	39.0	46.0	7.0	Pass	100.0	81.7

**RESULT: PASS** 





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



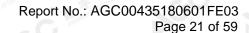
#### A. Suspected List:

	Frequency MHz	Polarization Reading dB(uV)				Level dB(u√/m) PK	Limit dB(u∀/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	51.825	v	17.5	16.9	34.4	40.0	5.6	Pass	100.0	1.1	
ſ	103.720	V	17.8	13.9	31.7	43.5	11.8	Pass	100.0	272.1	
ſ	114.390	v	14.8	14.9	29.7	43.5	13.8	Pass	150.0	9.9	
	181.805	v	11.5	14.4	25.9	43.5	17.6	Pass	100.0	198.1	
6	442.250	v	9.0	21.9	30.9	46.0	15.1	Pass	200.0	292.5	
	572.230	v	8.8	24.4	33.2	46.0	12.8	Pass	100.0	327.4	

#### **RESULT: PASS**

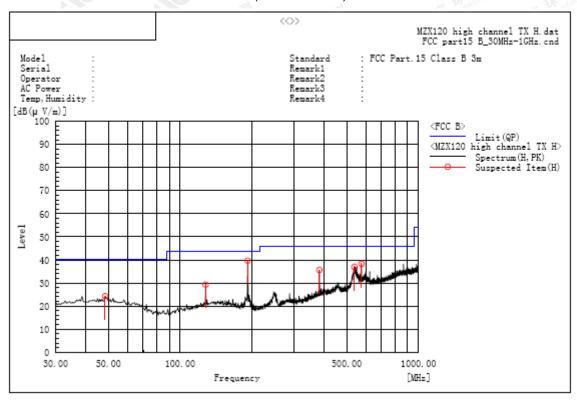
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





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



#### A. Suspected List:

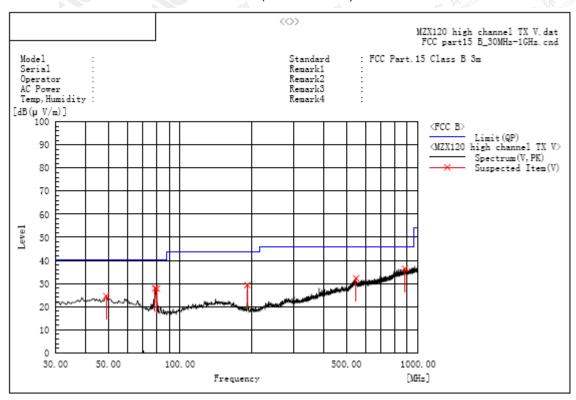
	Frequency MHz	Polarization Reading dB(uV)		Polarization I T I AH		Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	48.430	H	7.2	17.1	24.3	40.0	15.7	Pass	100.0	58.1
	127.970	Н	13.2	16.1	29.3	43.5	14.2	Pass	200.0	9.7
Г	191.990	Н	26.0	13.7	39.7	43.5	3.8	Pass	150.0	342.7
Г	384.050	Н	15.4	20.2	35.6	46.0	10.4	Pass	100.0	284.5
	538.280	Н	13.4	23.6	37.0	46.0	9.0	Pass	150.0	93.1
	576.595	Н	13.8	24.5	38.3	46.0	7.7	Pass	150.0	79.5

**RESULT: PASS** 



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



#### A. Suspected List:

Frequency MHz	Polarization	Reading Factor dB (1/m)		Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
48.915	V	7.5	17.1	24.6	40.0	15.4	Pass	100.0	252.1
78.500	V	15.6	12.3	27.9	40.0	12.1	Pass	150.0	165.0
79.955	V	15.5	12.3	27.8	40.0	12.2	Pass	150.0	165.0
191.990	V	15.7	13.7	29.4	43.5	14.1	Pass	150.0	278.8
548.950	V	8.5	23.8	32.3	46.0	13.7	Pass	200.0	41.4
879.235	V	6.6	29.9	36.5	46.0	9.5	Pass	150.0	334.6

#### **RESULT: PASS**

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

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



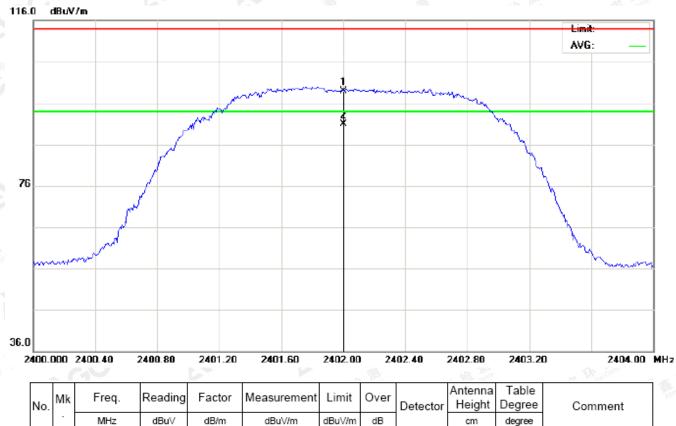
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#### **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: GFSK)

#### For Fundamental

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



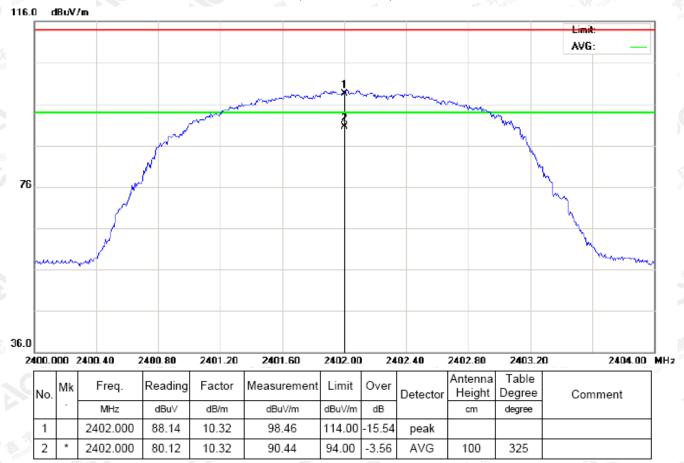
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	88.50	10.32	98.82	114.00	-15.18	peak			
2	*	2402.000	80.68	10.32	91.00	94.00	-3.00	AVG	100	108	
								8.8.6		- 13-5 -110	171.1 200.1 11.4.11

RESULT. PASS



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



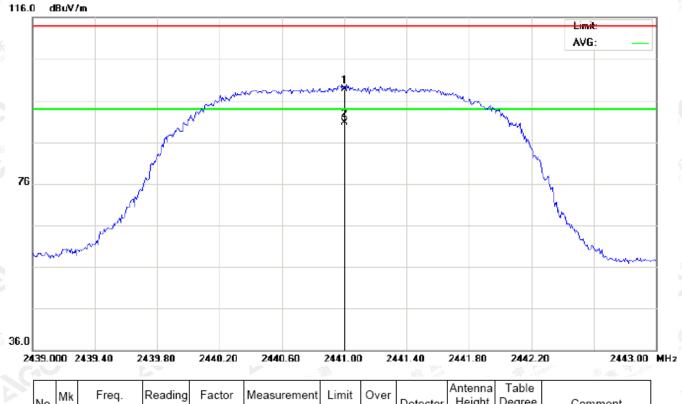
**RESULT: PASS** 

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	88.35	10.36	98.71	114.00	-15.29	peak			
2	*	2441.000	80.37	10.36	90.73	94.00	-3.27	AVG	100	98	

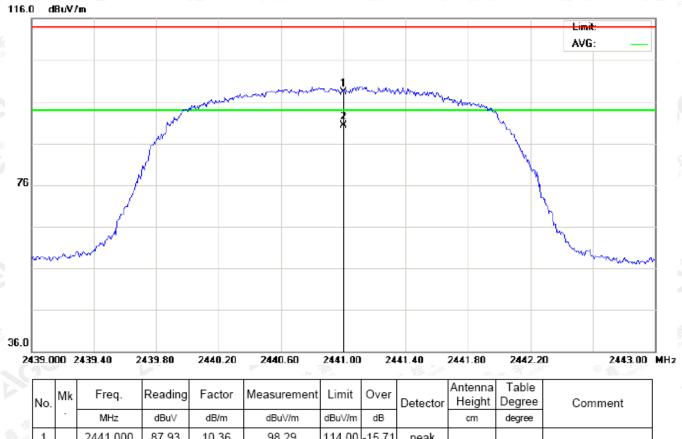
**RESULT: PASS** 

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



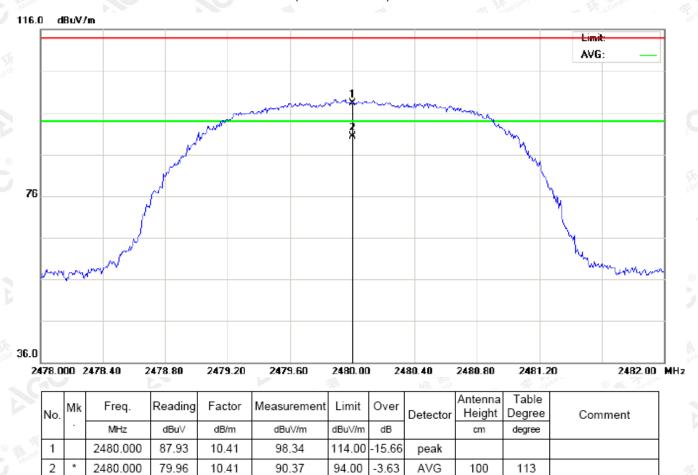
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	87.93	10.36	98.29	114.00	-15.71	peak			
2	*	2441.000	79.86	10.36	90.22	94.00	-3.78	AVG	100	307	

**RESULT: PASS** 



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



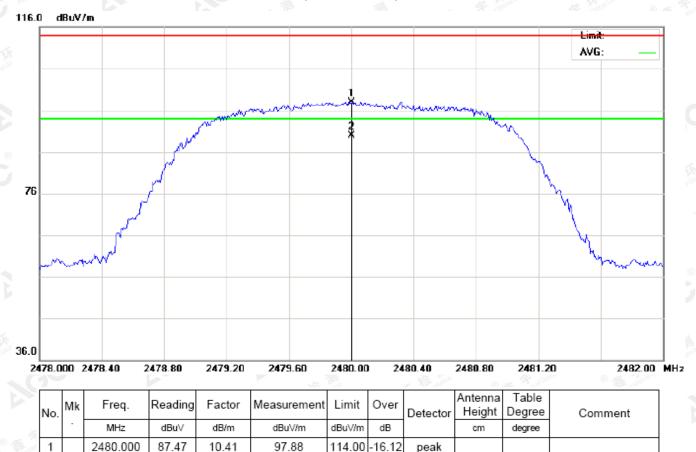
**RESULT: PASS** 

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



#### **RESULT: PASS**

79.50

10.41

2480.000

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

89.91

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

94.00

-4.09

AVG

100

328

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## Field strength of the fundamental signal

#### 1Mbps Result:

#### Peak value

Frequency (MHz)	Reading Level (dBuv)	el Factor	Measurement (dBuv/m)	Limit (dBuv/m)	Over	Antenna Polarization
2402	88.14	10.32	98.46	114	-15.54	Vertical
2441	88.35	10.36	98.71	114	-15.29	Horizontal
2441	87.93	10.36	98.29	114	-15.71	Vertical
2480	87.93	10.41	98.34	114	-15.66	Horizontal
2480	87.47	10.41	97.88	114	-16.12	Vertical

#### Average value

Frequency	Reading Level	Y I Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.68	10.32	91.00	94	-3.00	Horizontal
2402	80.12	10.32	90.44	94	-3.56	Vertical
2441	80.37	10.36	90.73	94	-3.27	Horizontal
2441	79.86	10.36	90.22	94	-3.78	Vertical
2480	79.96	10.41	90.37	94	-3.63	Horizontal
2480	79.50	10.41	89.91	94	-4.09	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	88.13	10.32	98.45	114	-15.55	Horizontal
2402	87.68	10.32	98.00	114	-16.00	Vertical
2441	87.88	10.36	98.24	114	-15.76	Horizontal
2441	87.48	10.36	97.84	114	-16.16	Vertical
2480	87.45	10.41	97.86	114	-16.14	Horizontal
2480	86.99	10.41	97.40	114	-16.60	Vertical

#### Average value

Frequency	Reading Level	Factor Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	80.18	10.32	90.50	94	-3.50	Horizontal
2402	79.68	10.32	90.00	94	-4.00	Vertical
2441	79.88	10.36	90.24	94	-3.76	Horizontal
2441	79.42	10.36	89.78	94	-4.22	Vertical
2480	79.50	10.41	89.91	94	-4.09	Horizontal
2480	79.02	10.41	89.43	94	-4.57	Vertical



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#### 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	87.67	10.32	97.99	114	-16.01	Horizontal
2402	87.20	10.32	97.52	114	-16.48	Vertical
2441	87.41	10.36	97.77	114	-16.23	Horizontal
2441	87.03	10.36	97.39	114	-16.61	Vertical
2480	87.00	10.41	97.41	114	-16.59	Horizontal
2480	86.52	10.41	96.93	114	-17.07	Vertical

#### Average value

Frequency	Reading Level	Factor M	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	79.76	10.32	90.08	94	-3.92	Horizontal
2402	79.24	10.32	89.56	94	-4.44	Vertical
2441	79.39	10.36	89.75	94	-4.25	Horizontal
2441	78.94	10.36	89.30	94	-4.70	Vertical
2480	79.02	10.41	89.43	94	-4.57	Horizontal
2480	78.55	10.41	88.96	94	-5.04	Vertical

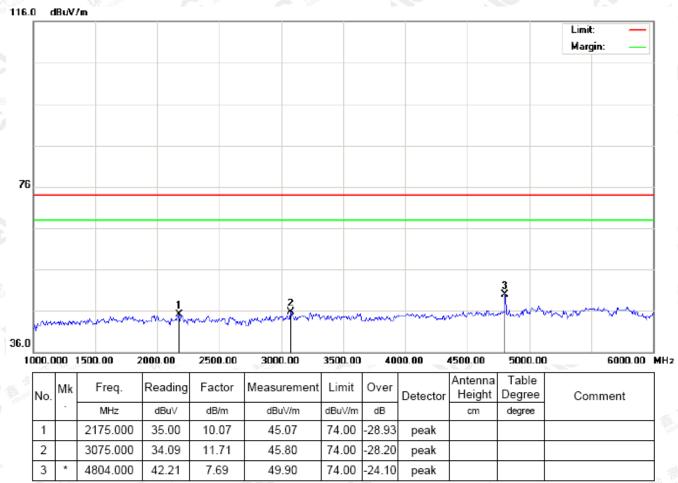


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## (Worst modulation: GFSK)

#### **For Harmonics**

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

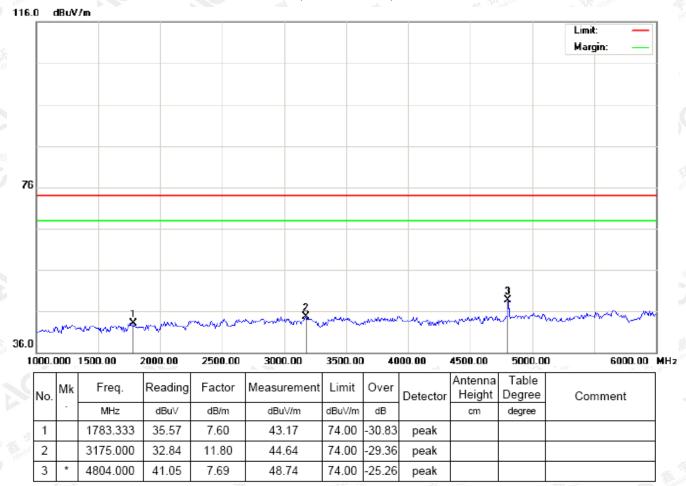


**RESULT: PASS** 



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



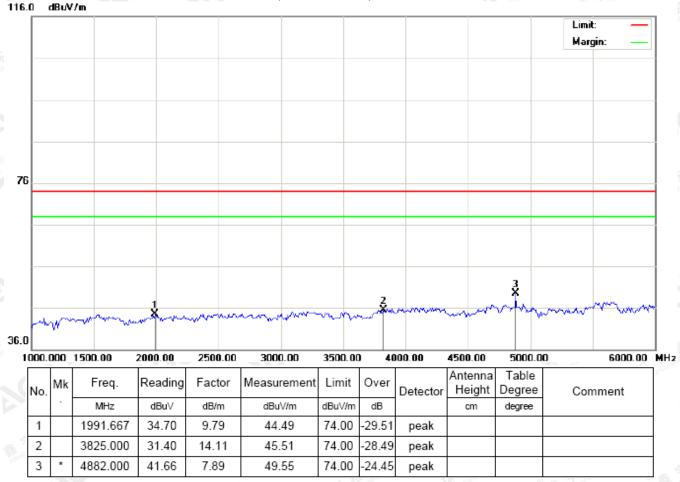
**RESULT: PASS** 

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



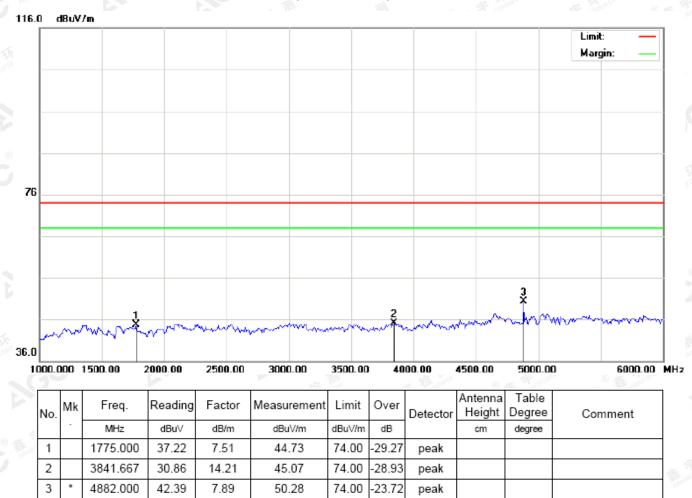
**RESULT: PASS** 

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



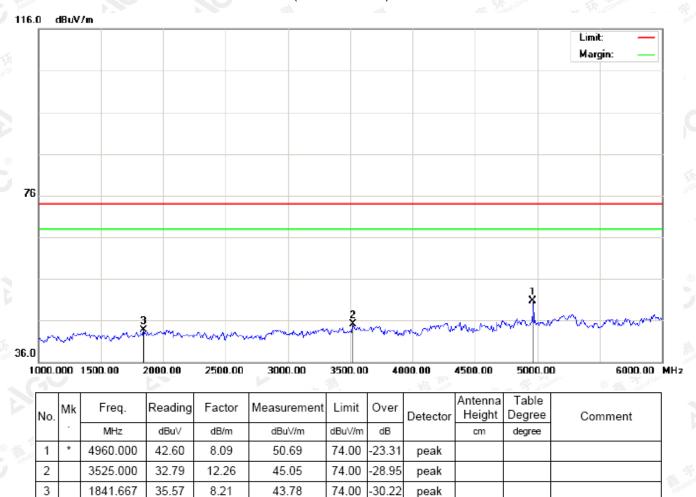
**RESULT: PASS** 

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



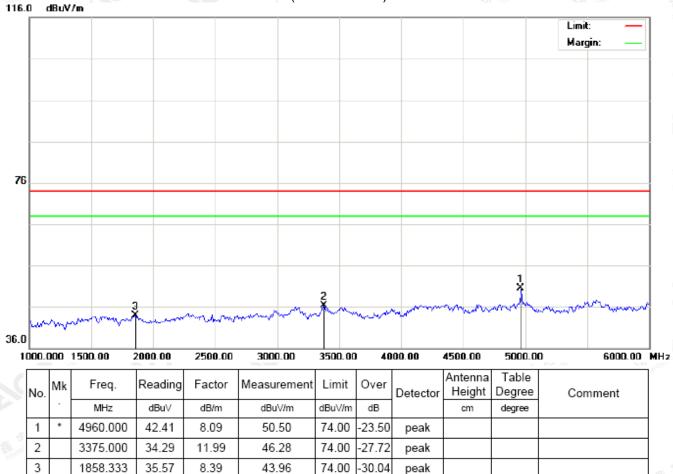
**RESULT: PASS** 

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



### **RESULT: PASS**

Note: 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

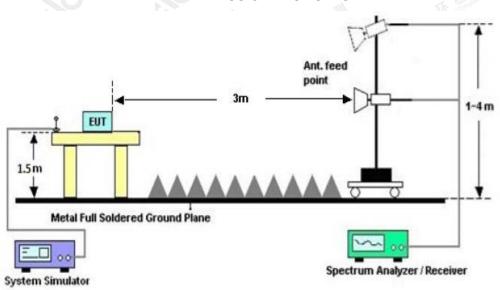
### 10.1. MEASUREMENT PROCEDURE

- 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(MHz)	Stop frequency(MHz)			
2200	2405			
2478	2500			

#### 10.2 TEST SETUP

### RADIATED EMISSION TEST SETUP



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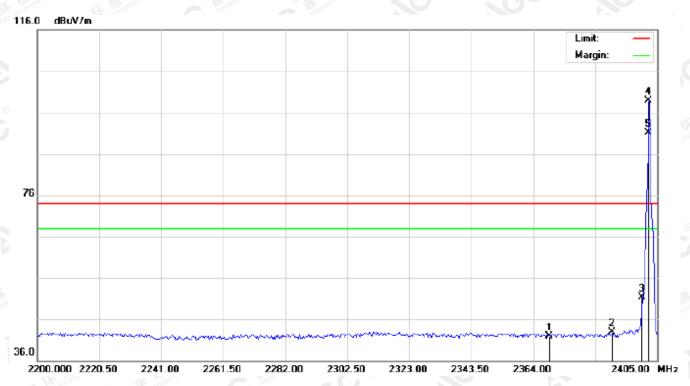


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# **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

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



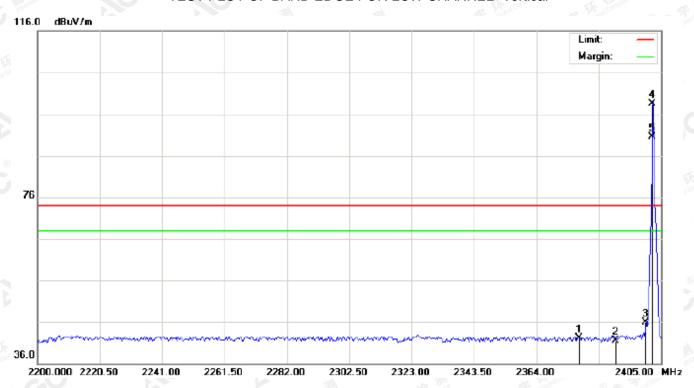
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
	1		2369.466	31.69	10.29	41.98	74.00	-32.02	peak			
Γ	2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
	3		2400.000	40.97	10.32	51.29	74.00	-22.71	peak			
	4	*	2402.000	88.65	10.32	98.97	74.00	24.97	peak			
	5	Χ	2402.000	80.74	10.32	91.06	74.00	17.06	AVG	100	105	

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



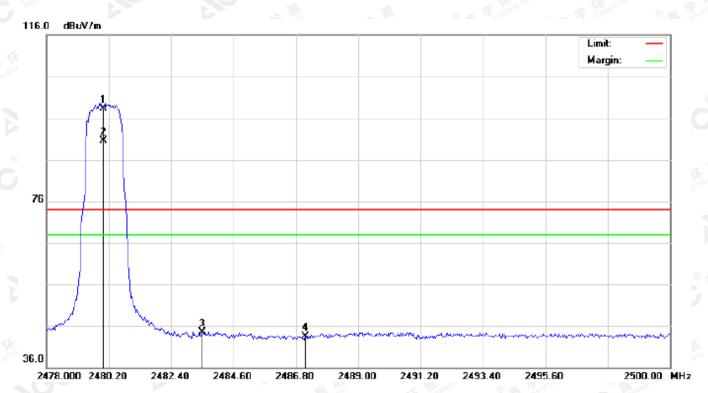
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
(3)	1		2378.008	31.81	10.30	42.11	74.00	-31.89	peak			
Γ	2		2390.000	31.21	10.31	41.52	74.00	-32.48	peak			
Γ	3		2400.000	35.56	10.32	45.88	74.00	-28.12	peak			
Γ	4	*	2402.000	88.20	10.32	98.52	74.00	24.52	peak			
	5	Х	2402.000	80.17	10.32	90.49	74.00	16.49	AVG	100	313	

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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



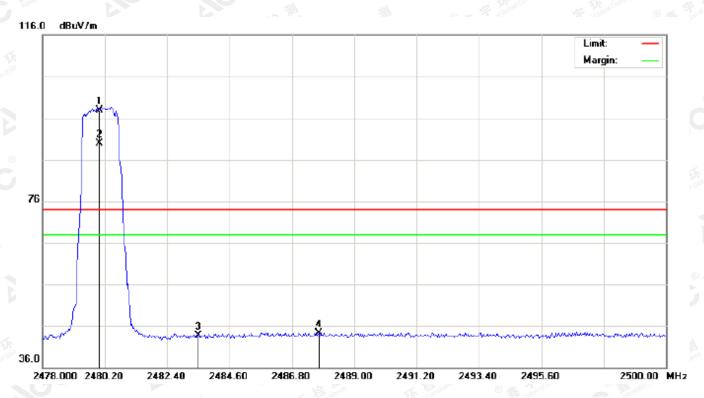
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
Ĭ.		-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
317	1	*	2480.000	87.98	10.41	98.39	74.00	24.39	peak			
	2	Х	2480.000	80.00	10.41	90.41	74.00	16.41	AVG	100	102	
	3		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
	4		2487.130	33.09	10.42	43.51	74.00	-30.49	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
ă	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	87.51	10.41	97.92	74.00	23.92	peak			
2	Х	2480.000	79.55	10.41	89.96	74.00	15.96	AVG	100	319	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2487.753	33.95	10.42	44.37	74.00	-29.63	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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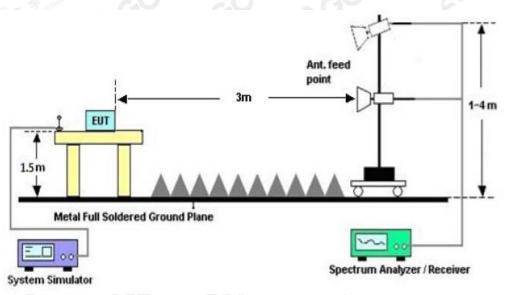
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### 11. 20DB BANDWIDTH

### 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



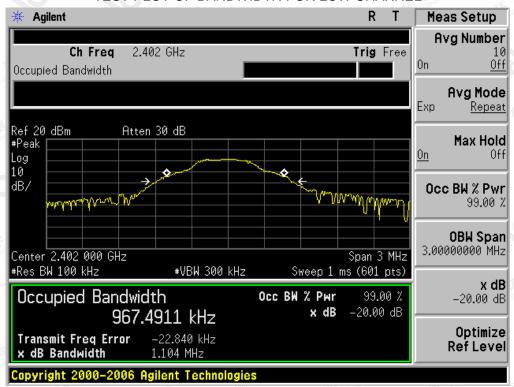
### 11.3. LIMITS AND MEASUREMENT RESULTS

		VIZ. 1 40		6101				
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits								
		99%OBW (MHz)	-20dB BW(MHz)	Result				
The state of the s	Low Channel	0.967	1.104	PASS				
N/A	Middle Channel	0.982	1.126	PASS				
	High Channel	0.970	1.090	PASS				

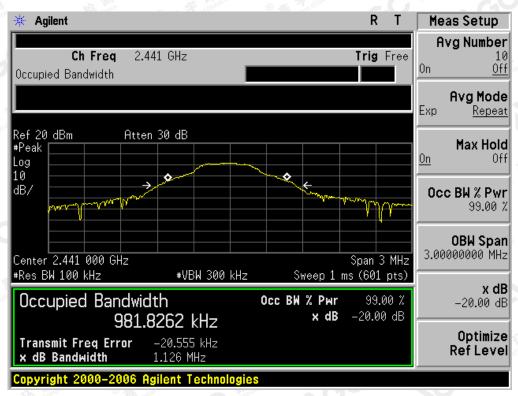
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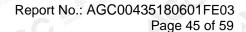
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

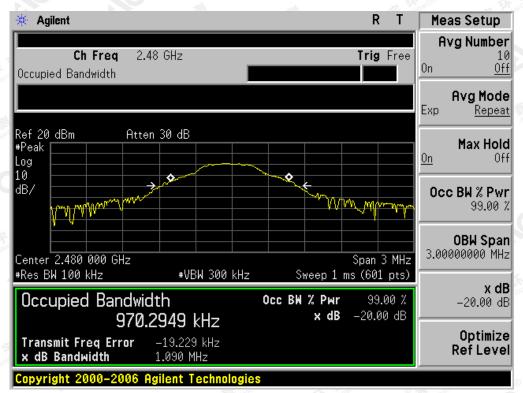


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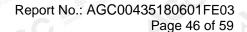




#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



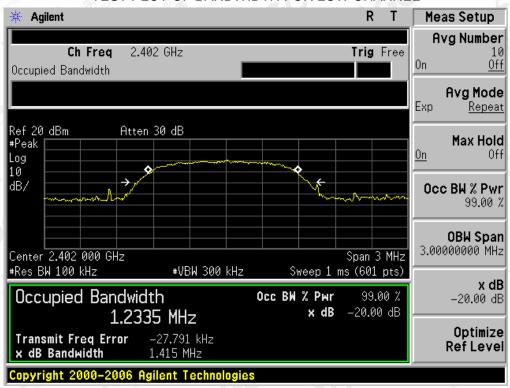
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DI HET/	OCTU 2MPDS LIN	AITE AND MEASIL	DEMENT DECLII T						
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Doorle							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
TO THE THE STATE OF THE	Low Channel	1.234	1.415	PASS					
N/A	Middle Channel	1.232	1.457	PASS					
AGC "	High Channel	1.227	1.409	PASS					

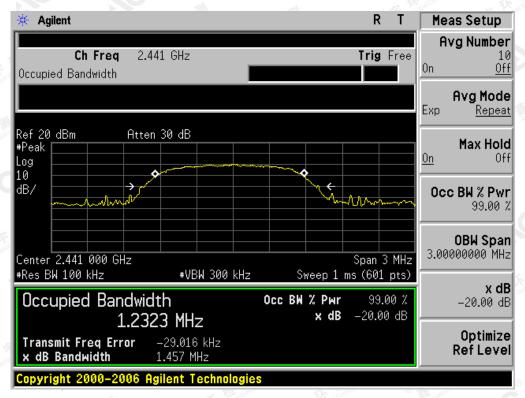
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



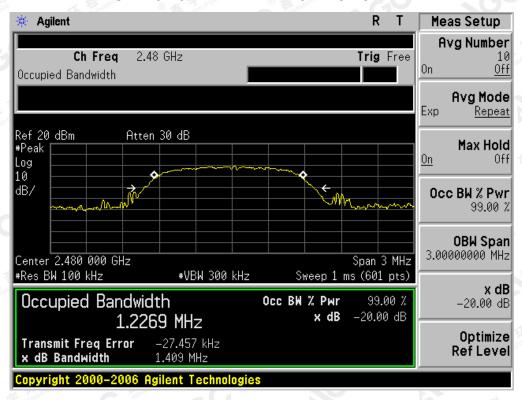
The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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



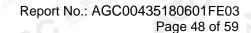
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



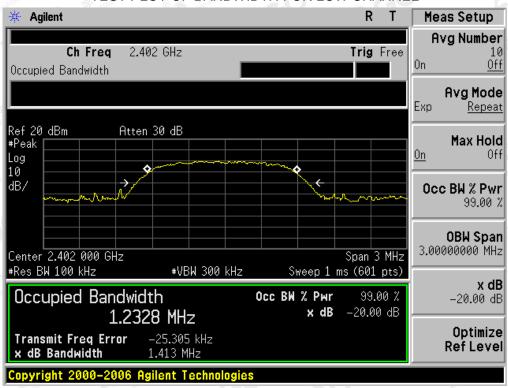
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.





**BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT** Measurement Result **Applicable Limits** Test Data (MHz) Result 99%OBW (MHz) -20dB BW(MHz) Low Channel 1.233 **PASS** 1.413 **PASS** N/A Middle Channel 1.230 1.418 1.231 **PASS High Channel** 1.407

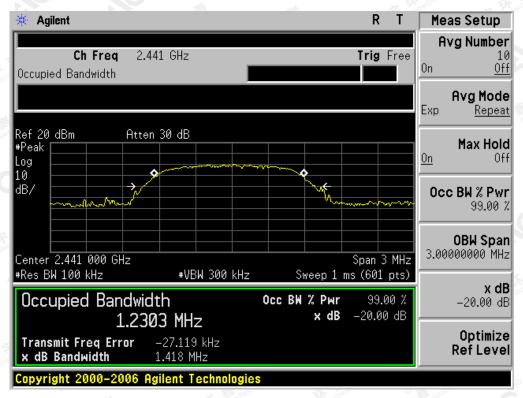
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



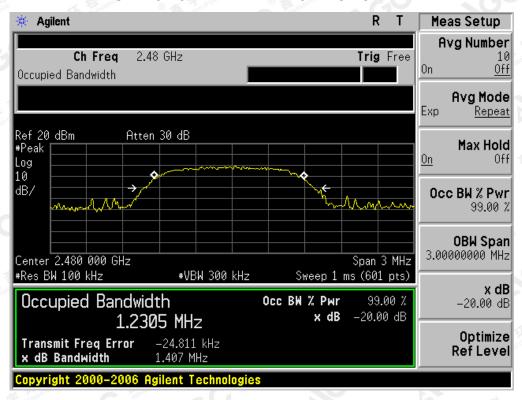
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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# 12. FCC LINE CONDUCTED EMISSION TEST

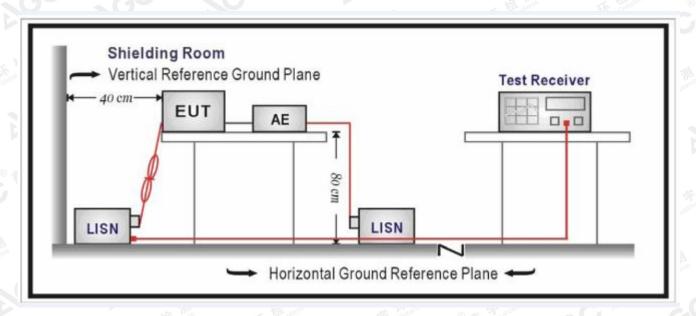
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

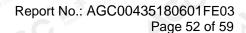
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 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.

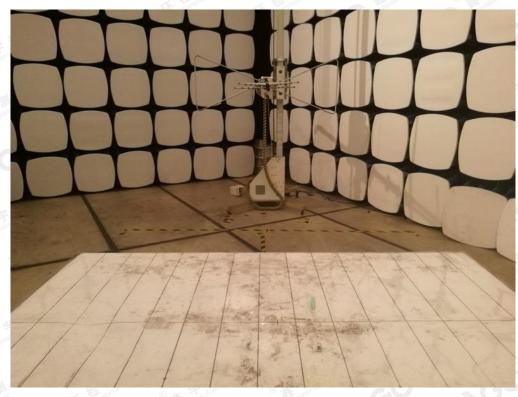
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### **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

FCC RADIATED EMISSION TEST SETUP

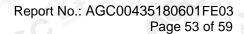




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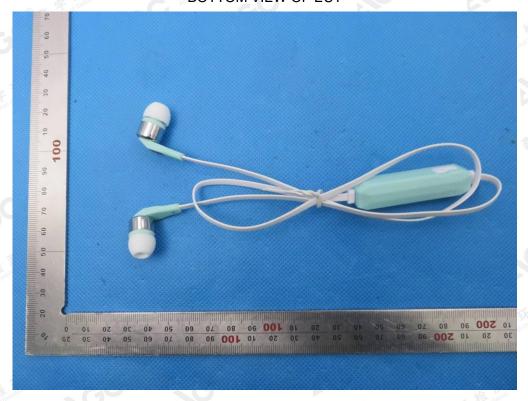


## **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



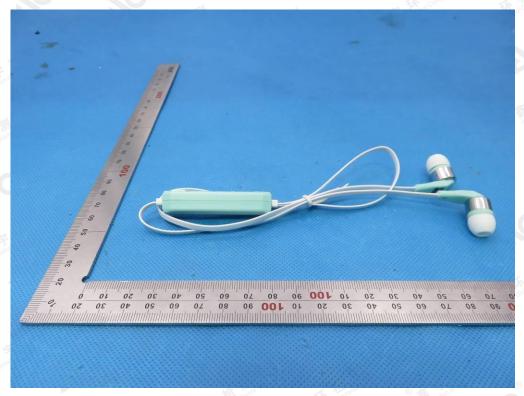
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### FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



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### LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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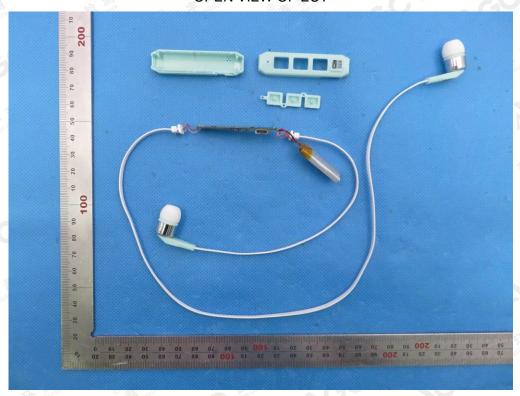
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# VIEW OF EUT (PORT)



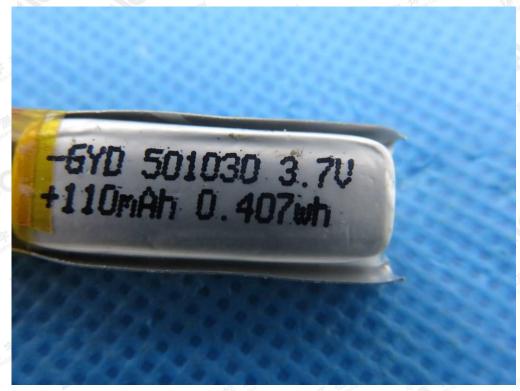
**OPEN VIEW OF EUT** 



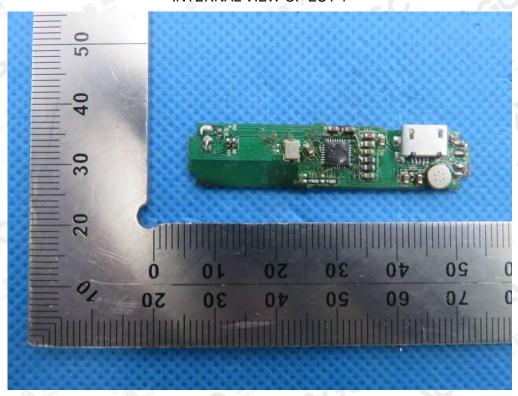
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### VIEW OF BATTERY



**INTERNAL VIEW OF EUT-1** 



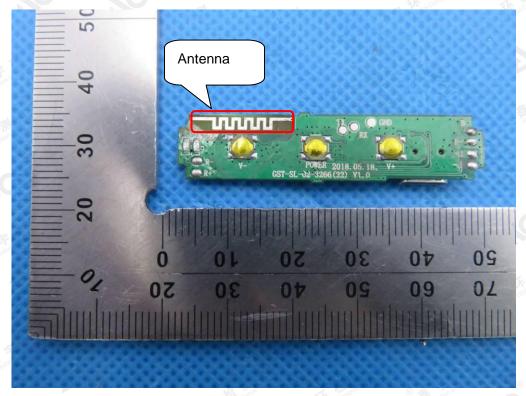
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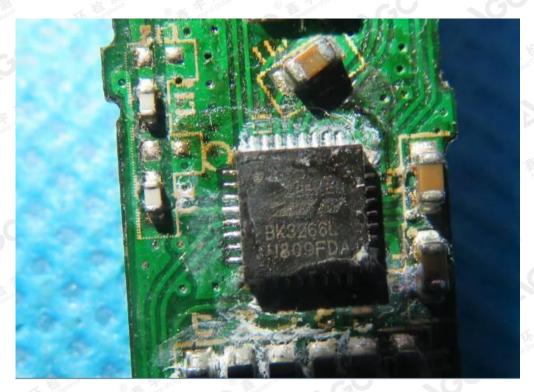
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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



----END OF REPORT----

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