

# **FCC Test Report**

Report No.: AGC00454180402FE03

**FCC ID** : 2AL9B-V40038BT

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: True Wireless Earphones

**BRAND NAME** : S.LAI

MODEL NAME : V40038BT

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

**DATE OF ISSUE** : Apr. 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	June 1 S	Apr. 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	True Wireless Earphones
Brand Name	S.LAI
Test Model	V40038BT
Date of test	Apr. 11, 2018 to Apr. 24, 2018
Deviation	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	
The Compiler (S)	Jonhen Wang(Wang Yonghuan)	Apr. 24, 2018
Reviewed By	Formersto ce	
The King Compliance	Forrest Lei(Lei Yonggang)	Apr. 26, 2018

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#### 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	2.48dBm(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	Ceramic Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: The BT function of E	EUT isn't work when charging.

## 2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
NO I	0	2402MHz
The Hallance	The state of the s	2403MHz
© ## Julion of Ciobalth © ## dive	CO CO	
30 m	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
Compliance © Mar Thomas Comm	40	2442 MHz
GC TO CO		
	77	2479 MHz
100	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

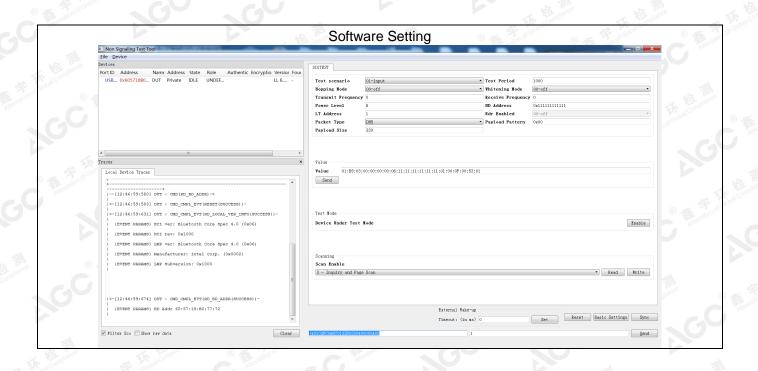
## 4. DESCRIPTION OF TEST MODES

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	station of	Control box	D <sub>2</sub>	PC

#### 5.2. EQUIPMENT USED IN EUT SYSTEM

<u> </u>					
Item	Equipment	Mfr/Brand	Model/Type No.	Remark EUT	
1	True Wireless Earphones	S.LAI	V40038BT		
2	Battery	JYZ	401015	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	SERIAL	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**

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	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	Janion of Color	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	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)	电测 乐意				
1.705 ~ 30	30	30	See The second of the second o				
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 Maria Commission	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.
- 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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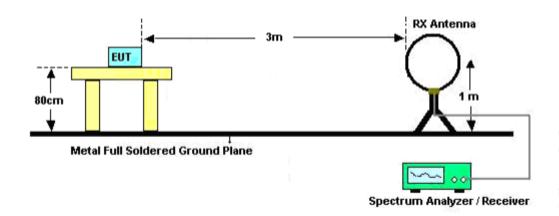
The following table is the setting of spectrum analyzer and receiver.

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

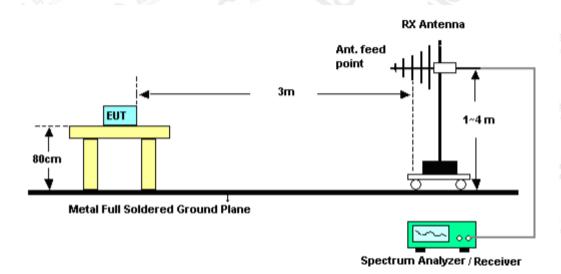


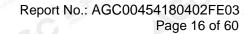
#### 9.3. TEST SETUP

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



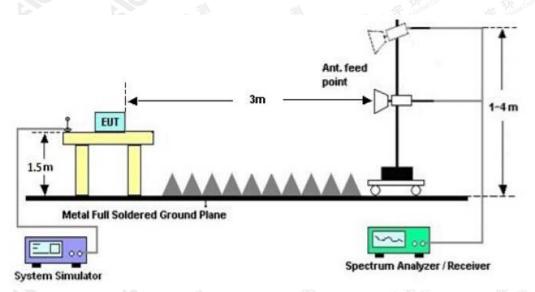
#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz







## 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.

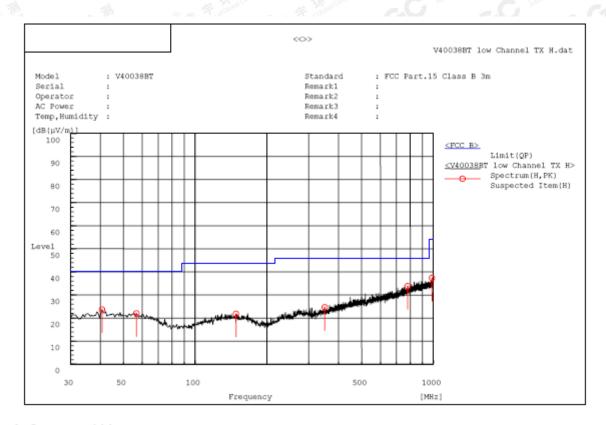
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#### **RADIATED EMISSION BELOW 1GHz**

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



## A. Suspected List:

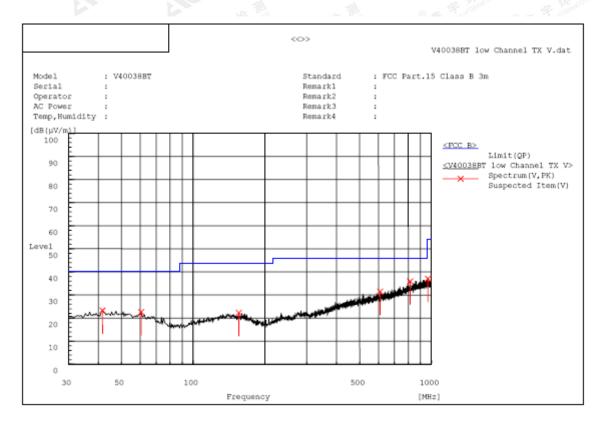
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(u√/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
40.670	H	6.3	17.4	23.7	40.0	16.3	Pass	100.0	57.2
56.675	Н	5.4	16.6	22.0	40.0	18.0	Pass	100.0	94.1
148.340	Н	5.2	16.6	21.8	43.5	21.7	Pass	150.0	146.6
350.100	H	5.8	18.9	24.7	46.0	21.3	Pass	100.0	57.2
780.780	H	5.5	28.3	33.8	46.0	12.2	Pass	100.0	94.1
987.875	H	6.4	31.0	37.4	54.0	16.6	Pass	200.0	289.1

**RESULT: PASS** 



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



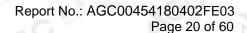
#### A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
41.640	v	5.9	17.4	23.3	40.0	16.7	Pass	100.0	181.4
60.555	v	6.5	16.1	22.6	40.0	17.4	Pass	200.0	159.6
155.615	v	5.7	16.6	22.3	43.5	21.2	Pass	150.0	106.8
609.575	v	6.3	25.1	31.4	46.0	14.6	Pass	150.0	288.0
814.730	v	6.9	29.0	35.9	46.0	10.1	Pass	100.0	252.2
967.990	v	6.2	30.8	37.0	54.0	17.0	Pass	100.0	217.2

#### **RESULT: PASS**

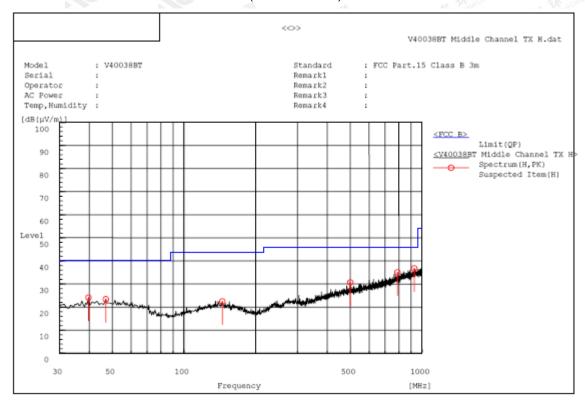
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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





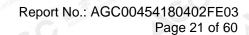
## RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



#### A. Suspected List:

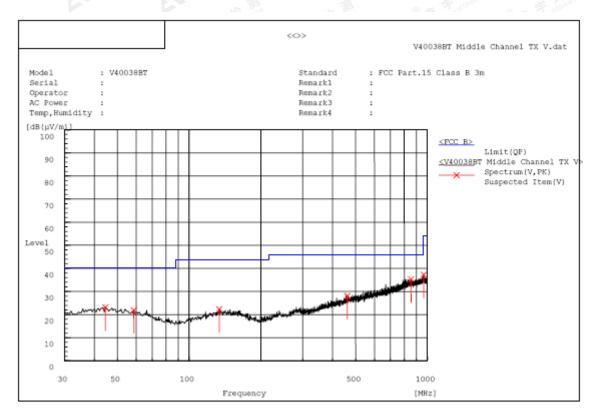
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
	39.700	H	6.7	17.4	24.1	40.0	15.9	Pass	100.0	287.6
Г	46.975	Н	6.2	17.2	23.4	40.0	16.6	Pass	200.0	235.1
	144.945	Н	5.8	16.6	22.4	43.5	21.1	Pass	100.0	36.4
	499.965	Н	7.8	22.9	30.7	46.0	15.3	Pass	100.0	287.6
	789.510	Н	6.6	28.5	35.1	46.0	10.9	Pass	200.0	126.5
	928.220	Н	6.3	30.5	36.8	46.0	9.2	Pass	150.0	70.8

**RESULT: PASS** 





## RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE 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	Marqin dB	Pass/Fail	Height cm	Angle deg
44.550	v	5.8	17.3	23.1	40.0	16.9	Pass	100.0	164.5
58.615	V	5.5	16.4	21.9	40.0	18.1	Pass	150.0	30.8
133.790	v	5.9	16.5	22.4	43.5	21.1	Pass	200.0	288.1
461.650	V	5.8	22.3	28.1	46.0	17.9	Pass	100.0	344.1
854.500	V	5.7	29.6	35.3	46.0	10.7	Pass	200.0	288.1
966.050	V	6.4	30.8	37.2	54.0	16.8	Pass	150.0	103.6

#### **RESULT: PASS**

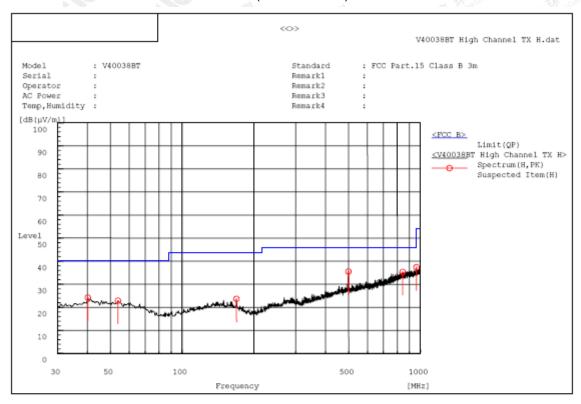
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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



#### A. Suspected List:

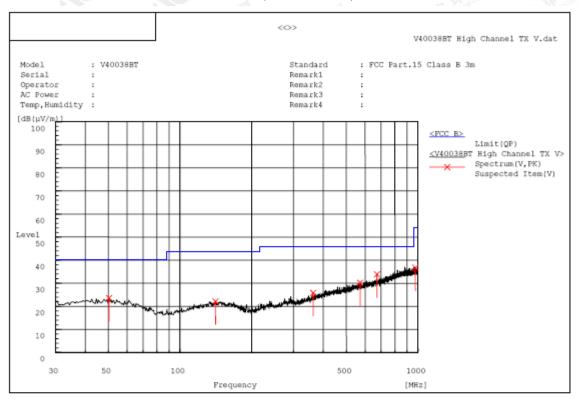
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	40.185	H	6.8	17.4	24.2	40.0	15.8	Pass	100.1	159.4
	53.765	Н	6.1	16.8	22.9	40.0	17.1	Pass	100.1	18.0
Г	169.195	Н	7.7	16.0	23.7	43.5	19.8	Pass	100.1	12.4
Г	499.480	Н	12.6	22.9	35.5	46.0	10.5	Pass	100.1	142.8
Γ	843.345	Н	5.9	29.5	35.4	46.0	10.6	Pass	100.1	42.4
	963.140	Н	6.6	30.8	37.4	54.0	16.6	Pass	100.1	232.6

**RESULT: PASS** 



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## RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH 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	Marqin dB	Pass/Fail	Height cm	Angle deg
50.370	V	6.6	17.0	23.6	40.0	16.4	Pass	100.0	90.6
141.065	V	5.6	16.6	22.2	43.5	21.3	Pass	100.0	110.2
362.710	v	6.5	19.4	25.9	46.0	20.1	Pass	100.0	193.7
571.745	V	5.8	24.4	30.2	46.0	15.8	Pass	100.0	226.7
672.625	V	8.0	25.9	33.9	46.0	12.1	Pass	100.0	317.5
975.750	V	5.9	30.9	36.8	54.0	17.2	Pass	100.0	250.2

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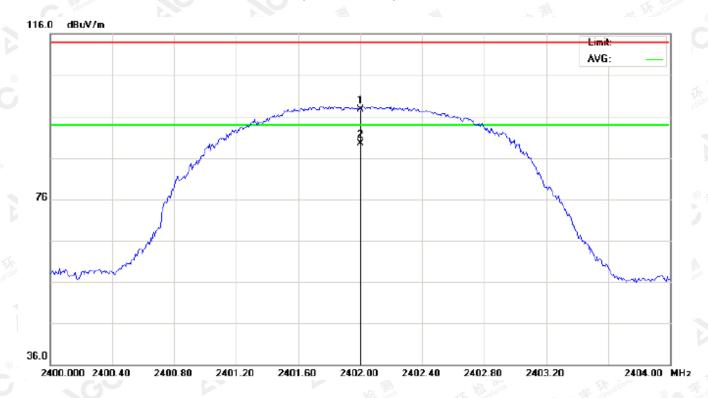
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## **RADIATED EMISSION ABOVE 1GHz**

(Worst modulation: GFSK)

## For Fundamental

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



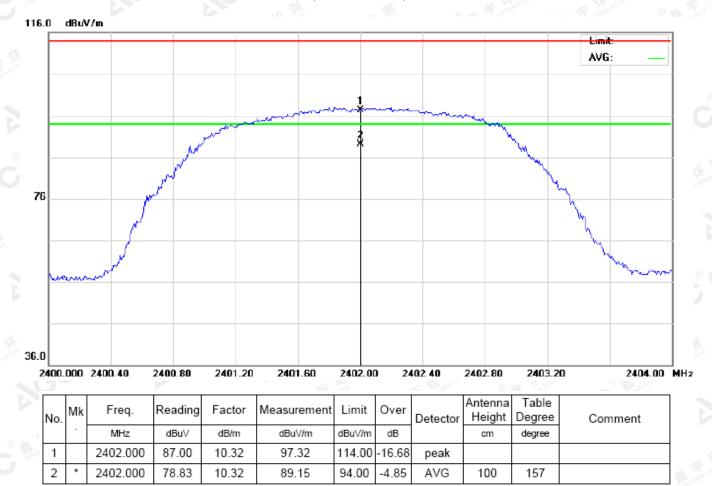
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2402.000	87.36	10.32	97.68	114.00	-16.32	peak			
2	*	2402.000	79.16	10.32	89.48	94.00	-4.52	AVG	100	321	

**RESULT: PASS** 



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



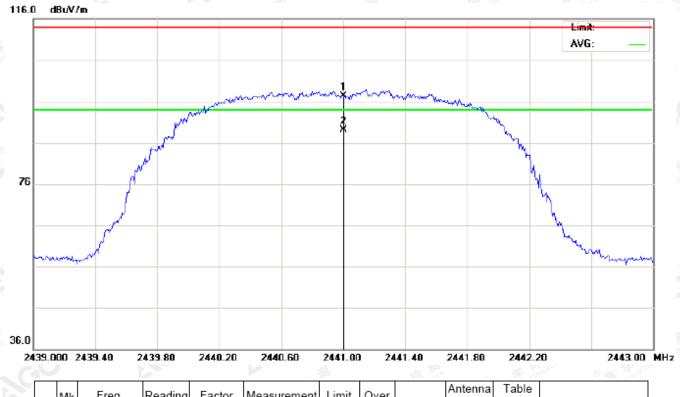
**RESULT: PASS** 

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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	86.85	10.36	97.21	114.00	-16.79	peak			
2	*	2441.000	78.65	10.36	89.01	94.00	-4.99	AVG	100	341	

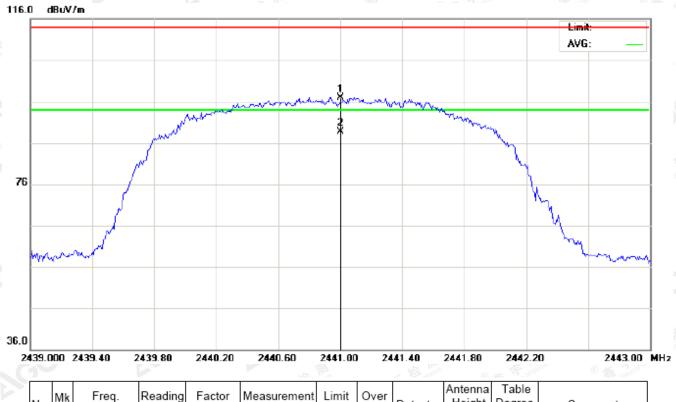
**RESULT: PASS** 

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



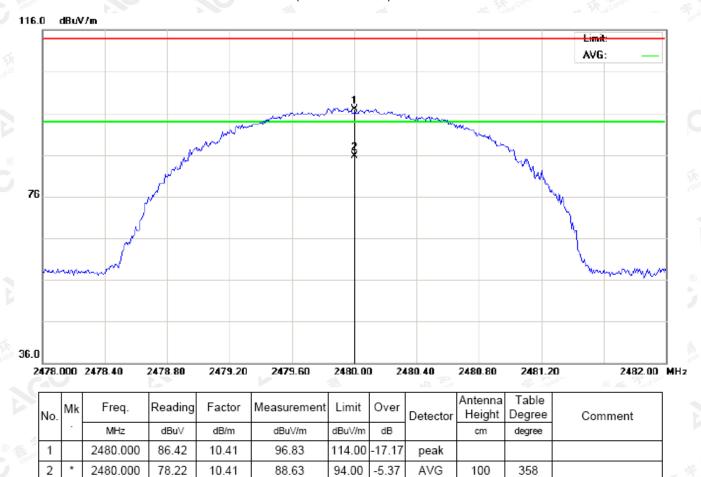
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2441.000	86.53	10.36	96.89	114.00	-17.11	peak			
2	*	2441.000	78.37	10.36	88.73	94.00	-5.27	AVG	100	121	

**RESULT: PASS** 



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



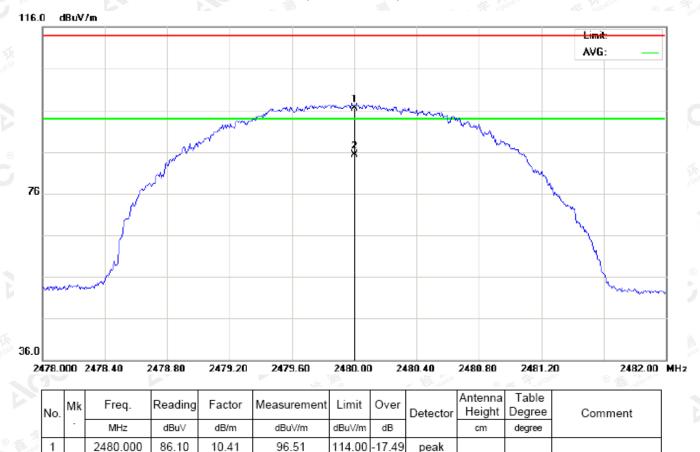
**RESULT: PASS** 

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



## **RESULT: PASS**

2480.000

77.90

10.41

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

88.31

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

94.00

-5.69

AVG

100

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## Field strength of the fundamental signal

## 1Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	87.36	10.32	97.68	114	-16.32	Horizontal	
2402	87.00	10.32	97.32	114	-16.68	Vertical	
2441	86.85	10.36	97.21	114	-16.79	Horizontal	
2441	86.53	10.36	96.89	114	-17.11	Vertical	
2480	86.42	10.41	96.83	114	-17.17	Horizontal	
2480	86.10	10.41	96.51	114	-17.49	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	79.16	10.32	89.48	94	-4.52	Horizontal	
2402	78.83	10.32 10.36	89.15 89.01	94 94	-4.85 -4.99	Vertical Horizontal	
2441	78.65						
2441	78.37	10.36	88.73	94	<b>-</b> 5.27	Vertical	
2480	78.22	10.41	88.63	94	-5.37	Horizontal	
2480	77.90	10.41	88.31	94	-5.69	Vertical	



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## 2Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	86.94	10.32	97.26	114	-16.74	Horizontal	
2402	86.67	10.32	96.99	114	-17.01	Vertical	
2441	86.39	10.36	96.75	114	-17.25	Horizontal	
2441	86.17	10.36	96.53	114	-17.47	Vertical	
2480	85.96	10.41	96.37	114	-17.63	Horizontal	
2480	85.75	10.41	96.16	114	-17.84	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.84	10.32	89.16	94	-4.84	Horizontal
2402	78.43	10.32	88.75	94	-5.25	Vertical
2441	78.21	10.36	88.57	94	-5.43	Horizontal
2441	77.97	10.36	88.33	94	-5.67	Vertical
2480	77.80	10.41	88.21	94	-5.79	Horizontal
2480	77.55	10.41	87.96	94	-6.04	Vertical



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## 3Mbps Result:

#### Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna Polarization	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)		
2402	86.54	10.32	96.86	114	-17.14	Horizontal	
2402	86.22	10.32	96.54 96.27	114 114	-17.46 -17.73	Vertical Horizontal	
2441	85.91	10.36					
2441	85.70	10.36	96.06	114	-17.94	Vertical	
2480	85.47	10.41	95.88	114	-18.12	Horizontal	
2480	85.31	10.41	95.72	114	-18.28	Vertical	

#### Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.47	10.32	88.79	94	-5.21	Horizontal
2402	78.01 77.90	10.32 10.36	88.33 88.26	94 94	-5.67 -5.74	Vertical Horizontal
2441						
2441	77.59	10.36	87.95	94	-6.05	Vertical
2480	77.38	10.41	87.79	94	-6.21	Horizontal
2480	77.24	10.41	87.65	94	-6.35	Vertical

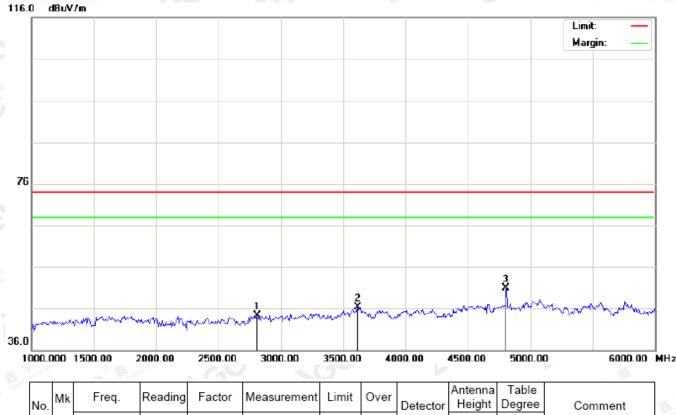


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## (Worst modulation: GFSK)

#### **For Harmonics**

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



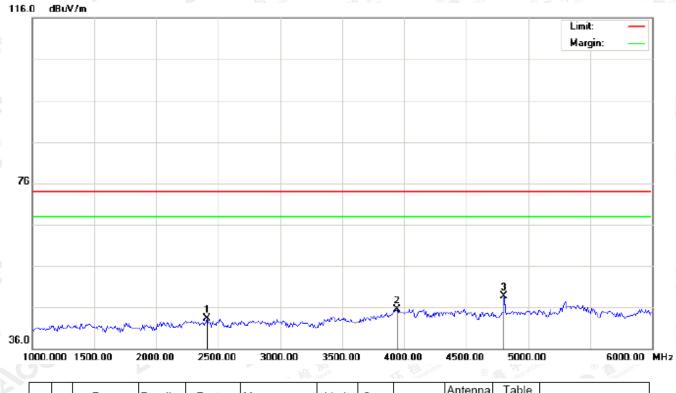
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2808.333	33.10	11.18	44.28	74.00	-29.72	peak			
2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
3	*	4804.000	43.21	7.69	50.90	74.00	-23.10	peak			

**RESULT: PASS** 



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



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		2408.333	32.93	10.33	43.26	74.00	-30.74	peak			
2		3941.667	30.73	14.83	45.56	74.00	-28.44	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

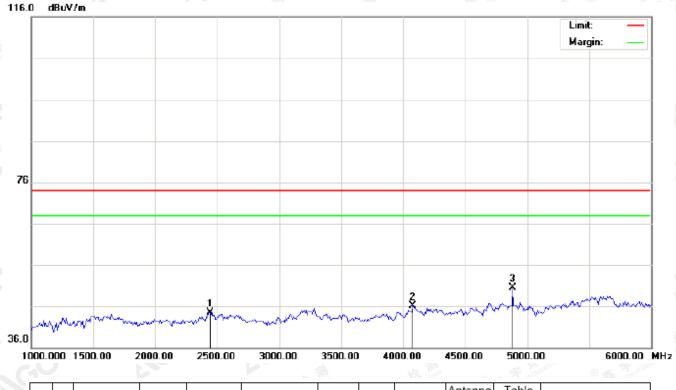
**RESULT: PASS** 

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



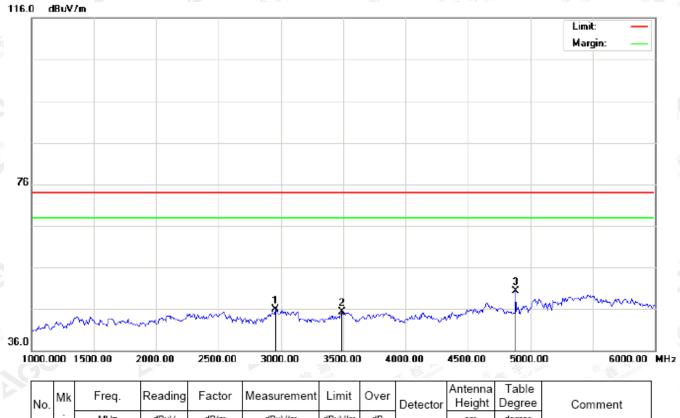
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
×			MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
al l	1		2441.667	34.22	10.37	44.59	74.00	-29.41	peak			
Γ	2		4075.000	32.19	13.94	46.13	74.00	-27.87	peak			
Γ	3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

**RESULT: PASS** 



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



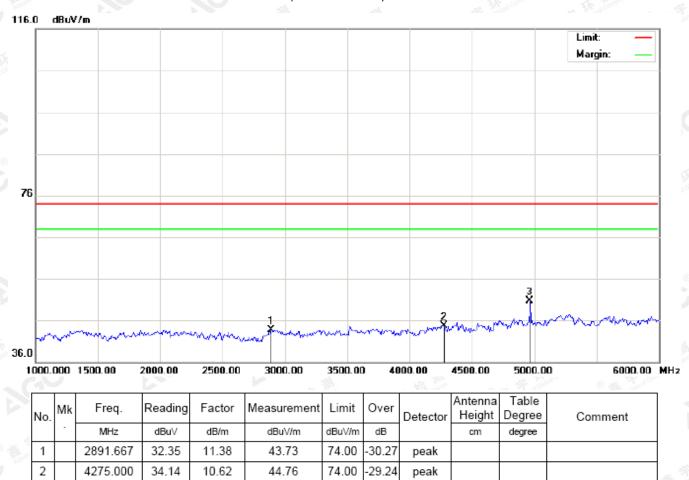
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă l	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2958.333	34.27	11.54	45.81	74.00	-28.19	peak			
2		3491.667	33.15	12.10	45.25	74.00	-28.75	peak			
3	*	4882.000	42.39	7.89	50.28	74.00	-23.72	peak			

**RESULT: PASS** 



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



74.00

-23.31

peak

50.69

**RESULT: PASS** 

4960.000

8.09

42.60

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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
š	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2283.333	34.05	10.19	44.24	74.00	-29.76	peak			
2		3375.000	33.79	11.99	45.78	74.00	-28.22	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

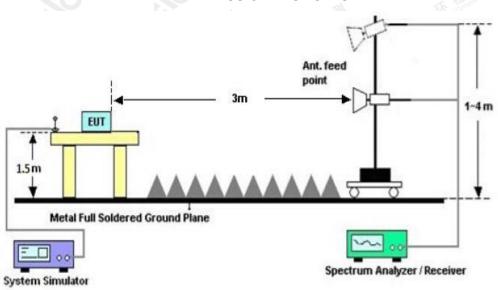
### 10.1. MEASUREMENT PROCEDURE

- 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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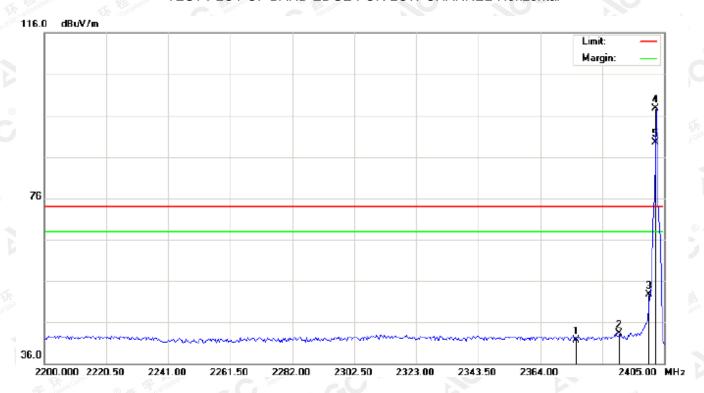


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# **10.3 RADIATED TEST RESULT**

(Worst modulation: GFSK)

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



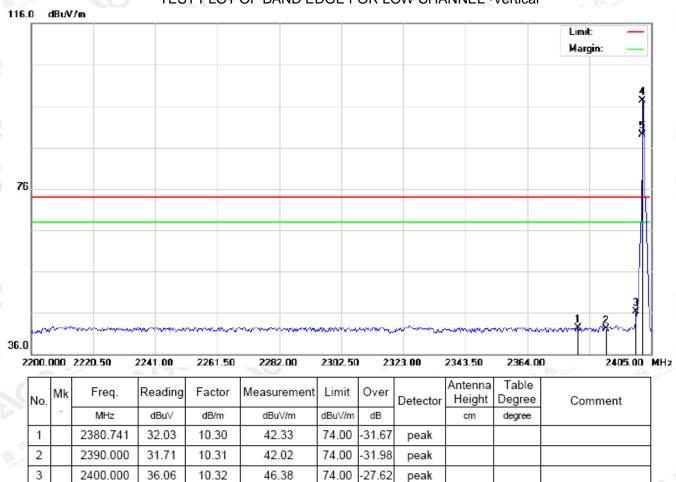
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2375.958	31.50	10.29	41.79	74.00	-32.21	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
4	*	2402.000	87.33	10.32	97.65	74.00	23.65	peak			
5	Х	2402.000	79.14	10.32	89.46	74.00	15.46	AVG	100	314	

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# TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



74.00

74.00

23.31

15.14

peak

AVG

100

101

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2402.000

2402.000

86.99

78.82

10.32

10.32

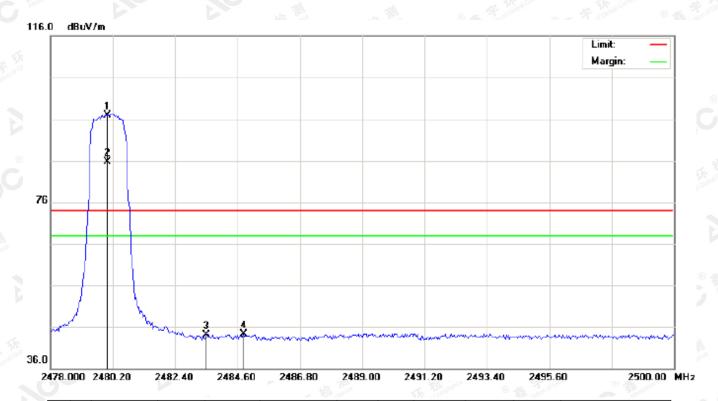
97.31

89.14



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# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



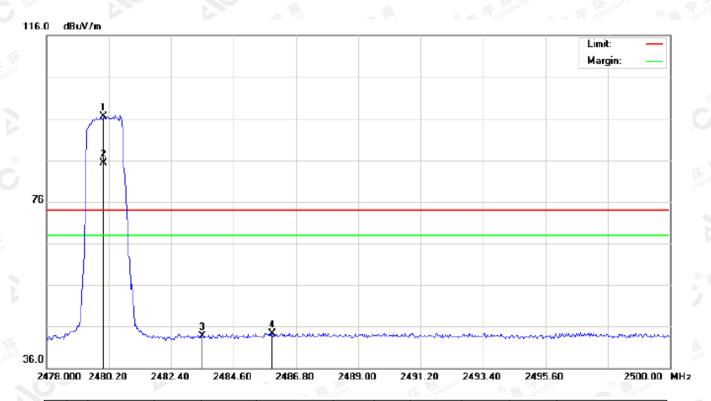
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	86.44	10.41	96.85	74.00	22.85	peak			
2	Х	2480.000	75.21	10.41	85.62	74.00	11.62	AVG	100	312	
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
4		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	М.	k Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	86.11	10.41	96.52	74.00	22.52	peak			
2	Х	2480.000	74.89	10.41	85.30	74.00	11.30	AVG	100	121	
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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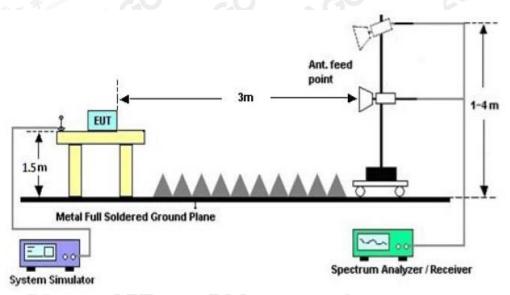
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# 11. 20DB BANDWIDTH

### 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



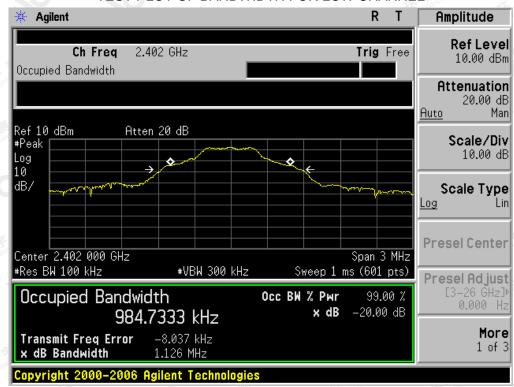
### 11.3. LIMITS AND MEASUREMENT RESULTS

		VD: " >0	The salls	6101							
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result								
Applicable Limits											
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The state of the s	Low Channel	0.985	1.126	PASS							
N/A	Middle Channel	0.977	1.121	PASS							
	High Channel	0.984	1.122	PASS							

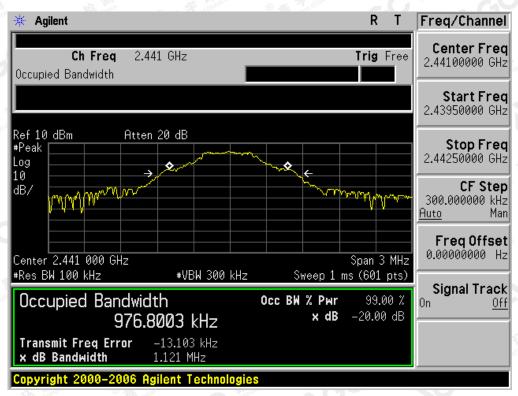
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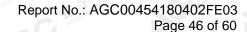
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

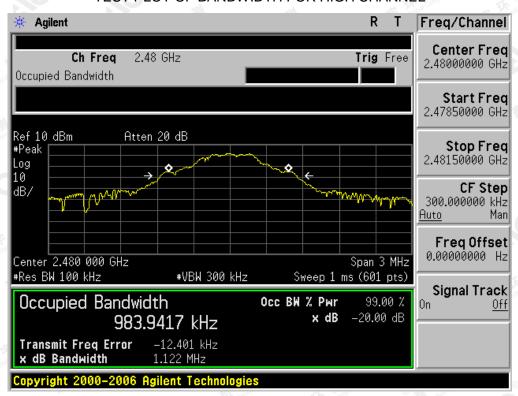


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#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



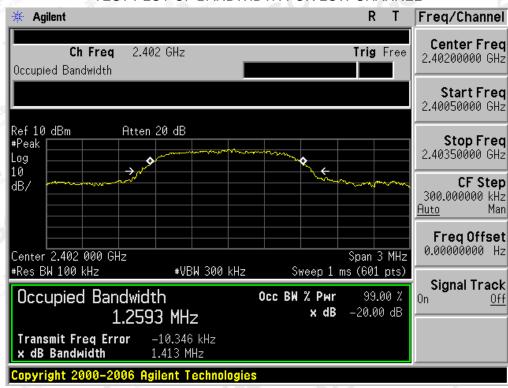
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Par A										
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits		Danill								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
TA TO THE THE TANK THE THE TANK THE TAN	Low Channel	1.259	1.413	PASS						
N/A	Middle Channel	1.230	1.389	PASS						
	High Channel	1.229	1.408	PASS						

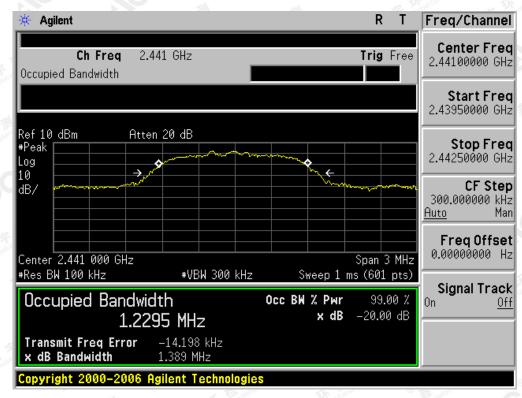
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



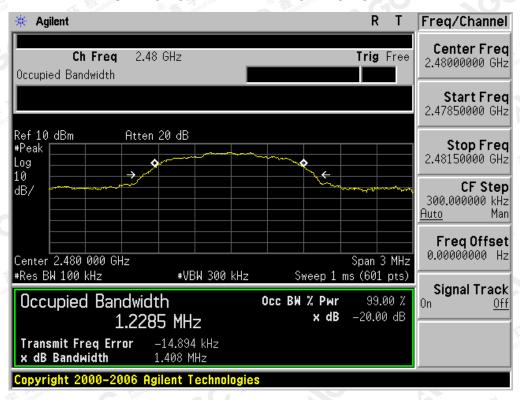
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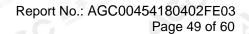
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



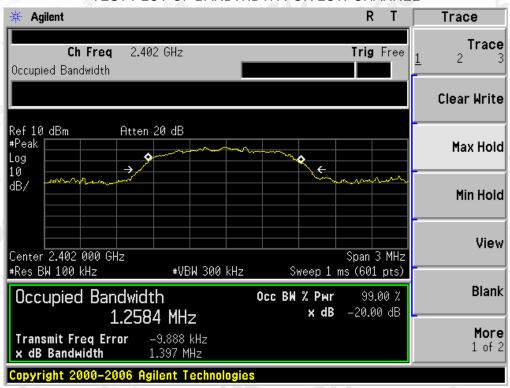
The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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





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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		D								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
下 整 测	Low Channel	1.258	1.397	PASS						
N/A	Middle Channel	1.264	1.397	PASS						
LOC "	High Channel	1.244	1.381	PASS						

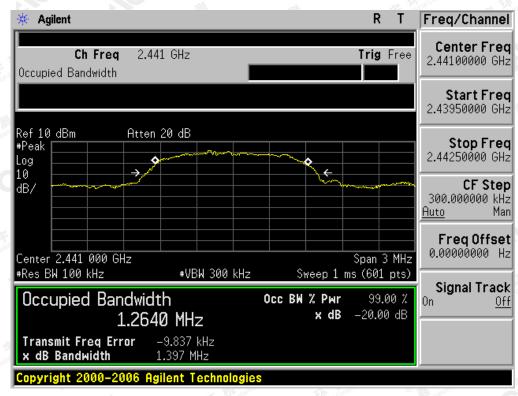
### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



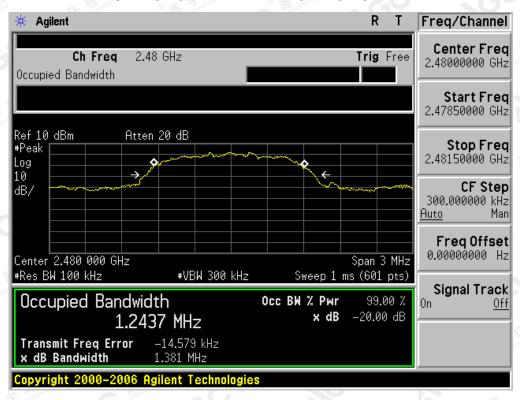
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### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# 12. FCC LINE CONDUCTED EMISSION TEST

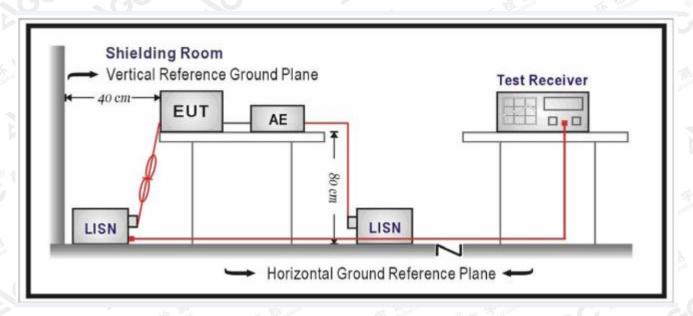
# 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

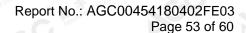
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were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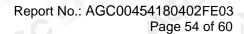
# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP

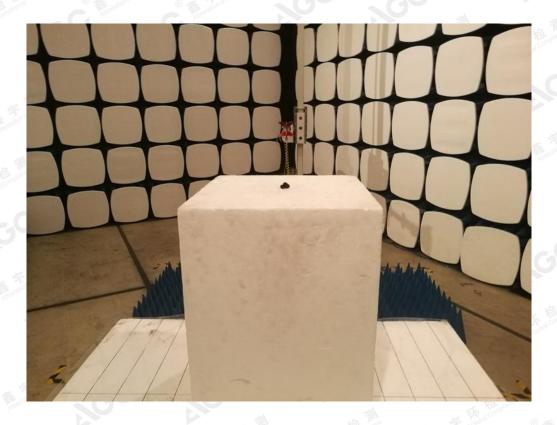


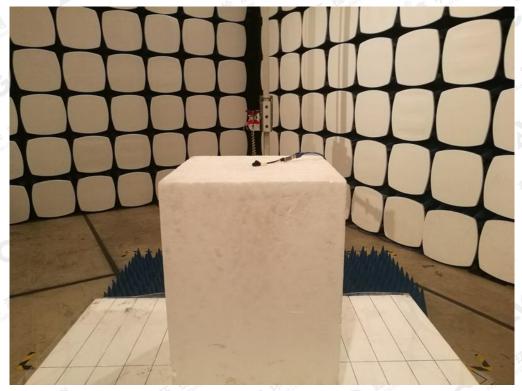


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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



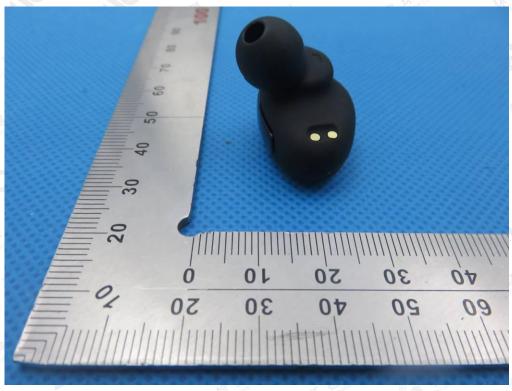
**BOTTOM VIEW OF EUT** 



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# FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



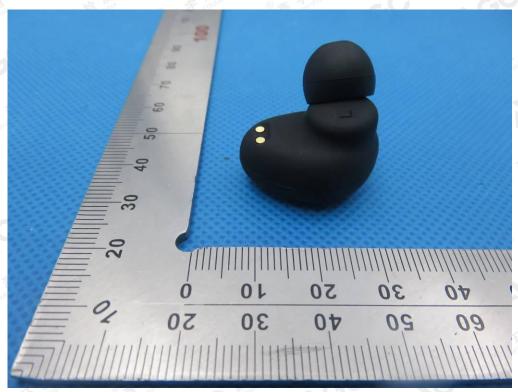
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# LEFT VIEW OF EUT



**RIGHT VIEW OF EUT** 



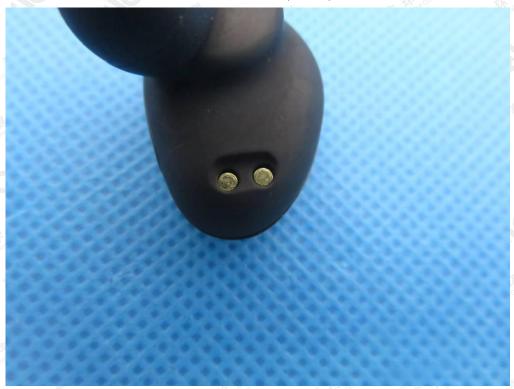
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# VIEW OF EUT (PORT)



**OPEN VIEW OF EUT** 



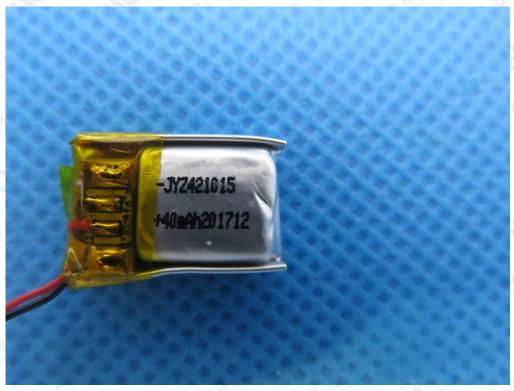
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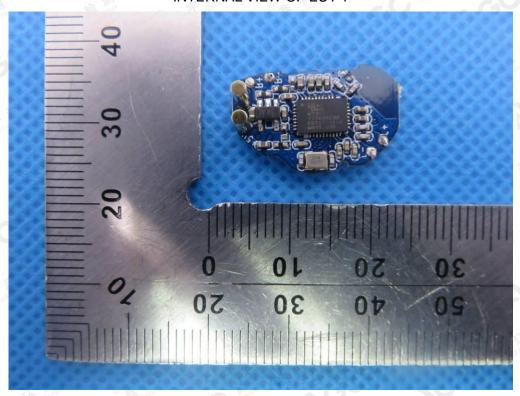
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### VIEW OF BATTERY



**INTERNAL VIEW OF EUT-1** 



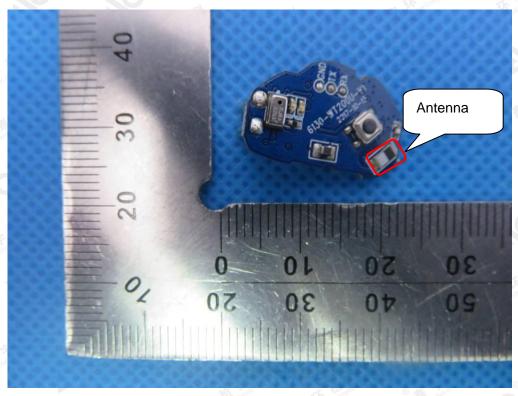
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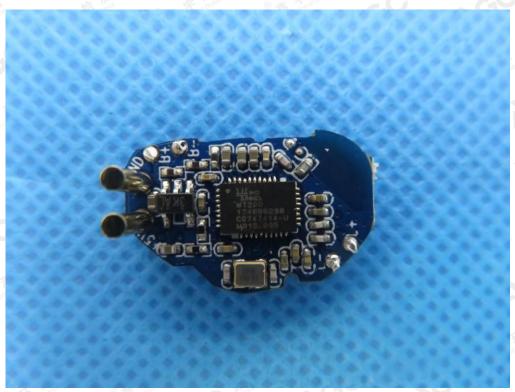
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# **INTERNAL VIEW OF EUT-2**



**INTERNAL VIEW OF EUT-3** 



----END OF REPORT----

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