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FCC Test Report

Report No.: AGC01789180401FE03

FCC ID	Ċ	R8HBTS-596
APPLICATION PURPOSE	;	Original Equipment
PRODUCT DESIGNATION	The of Chobs	FLAME ATMOSPHERE BLUETOOTH SPEAKER
BRAND NAME	:	N/A
MODEL NAME	6	BTS-596
CLIENT		Shenzhen XinHuaMei Electronics Limited Company
DATE OF ISSUE	10	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

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Report Version Revise Time		Issued Date Valid Version		Notes		
V1.0		Apr. 26, 2018	Valid	Initial release		

Report Revise Record

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen XinHuaMei Electronics Limited Company				
Address	Bldg 5, Taifeng Industrial Park, No.10, Jianan Road, Shajing Sub-district, Baoan District, Shenzhen, China				
Manufacturer	Shenzhen XinHuaMei Electronics Limited Company				
Address	Bldg 5, Taifeng Industrial Park, No.10, Jianan Road, Shajing Sub-district, Baoan District, Shenzhen, China				
Product Designation	FLAME ATMOSPHERE BLUETOOTH SPEAKER				
Brand Name	N/A				
Test Model	BTS-596				
Date of test	Apr. 06, 2018 to Apr. 21, 2018				
Deviation	None				
Condition of Test Sample	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

Jonhan Wand

Jonhen Wang(Wang Yonghuan) Apr. 21, 2018

Reviewed By

Forversto en

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	-4.14dBm(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	V2.0
Software Version	V4.2
Antenna Designation	PCB Antenna
Antenna Gain	0.85dBi
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency		
NGU	0	2402MHz		
The the The		2403MHz		
C Frankling Cobalt				
GC SC	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
The tomate Commence	40	2442 MHz		
of other SGC Meet				
	77	2479 MHz		
The the same	78	2480 MHz		

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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 Manual	Low channel GFSK
⁰ 2 ^d	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
6 7	BT Link with charging
8	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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P			Sof	tware Setting	© 18 %	not Globa	E Hon of Global	C These
困	RE FCCAssist 1.5							
al Comt	Parameter							14
6	MODE	TX 💌						Subject
	Channel	0 💌	Packet type	e 1-DH1 💌	Data Types	Pn9	~	C
Attest	Transmit Power	10 💌	Hopping	OFF 💌	Serial Port	СОМЗ	~	
c	Transmit Power : 10	:04 ta Types: Pn9 Packet type: 1-			C	Send configu	ration	and the second
2	Send configuration info	rmation successfi	ully Des	cription:				
7				Channel: range 0-				SHZ
Comple			2.	Transmit Power	range 0-10, 0 is t	the minimum, i	maximum 10	HA T

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

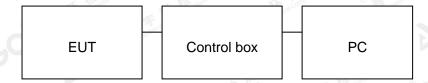
Configure 1: (Normal hopping)



PC or Adapter

Note: Owing to the EUT has own battery, and testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
	FLAME ATMOSPHERE BLUETOOTH SPEAKER	XinHuaMei	BTS-597	EUT
2	Battery	JDY	18650	Accessory
3	PC PC	APPLE	A1465	A.E
4	Control box	GZUT	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	0.5m unshielded	Accessory
67	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	Compliant
§15.215	Bandwidth	Compliant

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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 CONDUCTED EMISSION TEST

Equipment Manufacturer		Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	TRECEIVER R&S		101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

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	МХТ	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	The Continue	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 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)	2
0.490 ~ 1.705	30	24000/F(kHz)	E
1.705 ~ 30	30	30	E The Column Column
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 μ V = 20 log Emission level μ V/m

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

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

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9.2. MEASUREMENT PROCEDURE

- 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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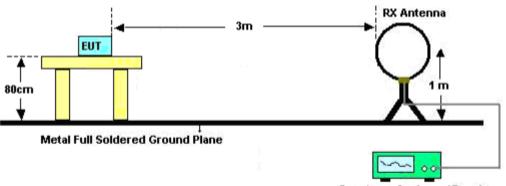


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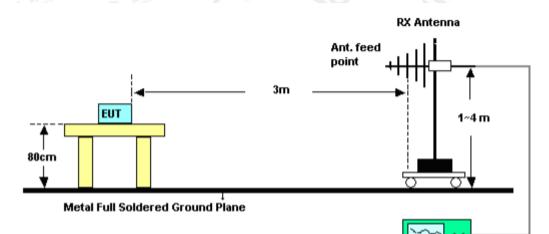
9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



Spectrum Analyzer / Receiver

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



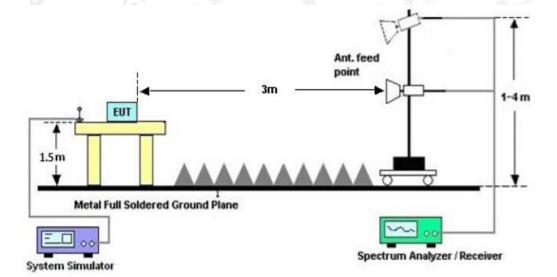
Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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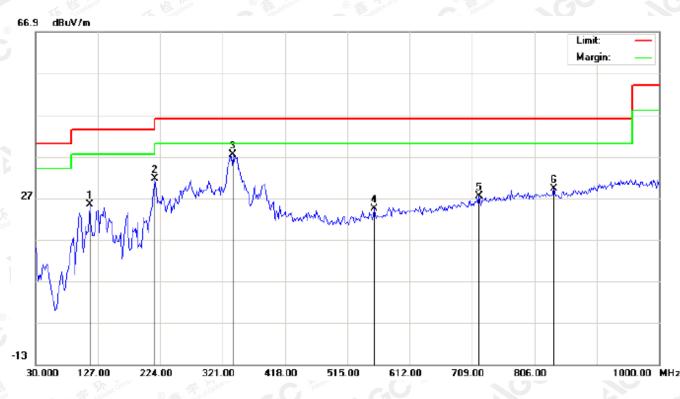
9.4. TEST RESULT

(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

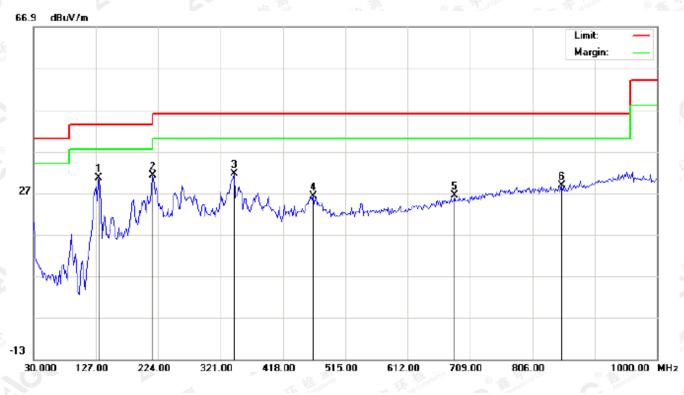


No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		114.0667	18.22	7.23	25.45	43.50	-18.05	peak			
2		215.9167	21.25	10.38	31.63	43.50	-11.87	peak			
3	*	337.1667	19.57	17.89	37.46	46.00	-8.54	peak			
4		557.0333	1.70	22.66	24.36	46.00	-21.64	peak			
5		720.3167	1.56	25.79	27.35	46.00	-18.65	peak			
6		836.7167	1.89	27.31	29.20	46.00	-16.80	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
%W		-	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
	1		131.8500	18.74	11.80	30.54	43.50	-12.96	peak			
	2	*	215.9167	20.56	10.56	31.12	43.50	-12.38	peak			
	3		342.0167	13.32	18.21	31.53	46.00	-14.47	peak			
	4		464.8833	5.43	20.75	26.18	46.00	-19.82	peak			
	5		684.7500	1.66	24.78	26.44	46.00	-19.56	peak			
	6		851.2667	1.42	27.34	28.76	46.00	-17.24	peak			

RESULT: PASS

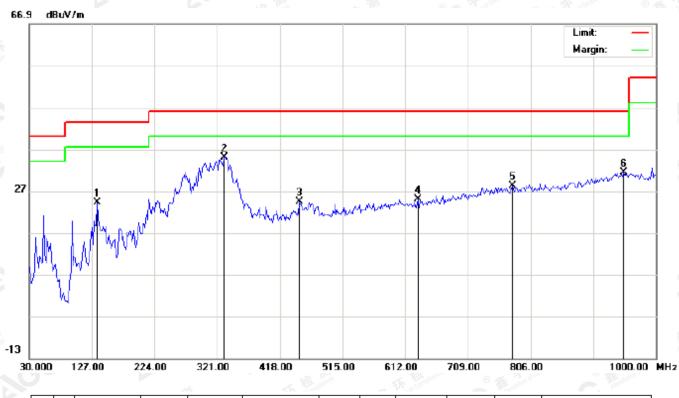
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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

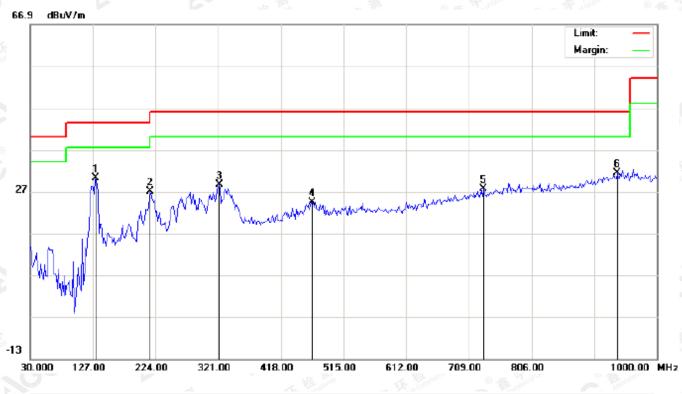
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
NN		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
he.	1		135.0833	11.32	12.90	24.22	43.50	-19.28	peak				
	2	*	332.3167	17.48	17.56	35.04	46.00	-10.96	peak				
	3		448.7167	3.89	20.55	24.44	46.00	-21.56	peak				
	4		631.4000	1.14	23.81	24.95	46.00	-21.05	peak				
	5		778.5167	1.17	27.02	28.19	46.00	-17.81	peak				1262
	6		949.8833	1.47	30.00	31.47	46.00	-14.53	peak				Ĭ

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
23		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	1	cm	degree	
sta	1	*	131.8500	18.38	11.80	30.18	43.50	-13.32	peak			
	2		215.9167	16.49	10.56	27.05	43.50	-16.45	peak			
	3		322.6167	11.78	16.92	28.70	46.00	-17.30	peak			
	4		466.5000	3.71	20.77	24.48	46.00	-21.52	peak			
	5		731.6333	1.41	26.10	27.51	46.00	-18.49	peak			
1	6		938.5667	1.76	29.68	31.44	46.00	-14.56	peak			

RESULT: PASS

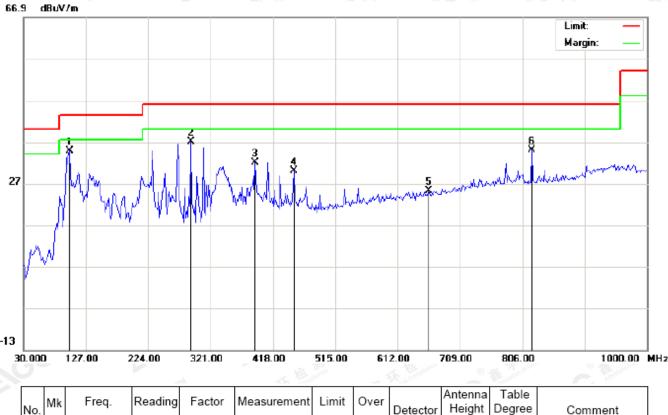
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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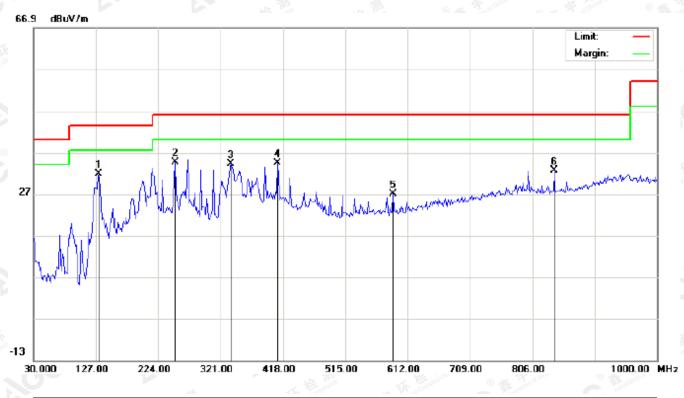
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
3		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB]	cm	degree		
	1	*	101.1333	24.61	10.22	34.83	43.50	-8.67	peak				
	2		290.2833	23.29	13.76	37.05	46.00	-8.95	peak				
	3		390.5167	13.06	19.01	32.07	46.00	-13.93	peak				
	4		450.3333	9.39	20.59	29.98	46.00	-16.02	peak				
	5		660.5000	1.13	24.14	25.27	46.00	-20.73	peak				
	6		820.5500	7.59	27.32	34.91	46.00	-11.09	peak				

RESULT: PASS

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

	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
	1		131.8500	19.92	11.80	31.72	43.50	-11.78	peak			
	2	*	249.8667	20.64	13.89	34.53	46.00	-11.47	peak			
	3		337.1667	16.35	17.89	34.24	46.00	-11.76	peak			
	4		409.9167	15.12	19.37	34.49	46.00	-11.51	peak			
Ī	5		589.3667	4.36	22.68	27.04	46.00	-18.96	peak			
1	6		839.9500	5.29	27.31	32.60	46.00	-13.40	peak			

RESULT: PASS

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

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

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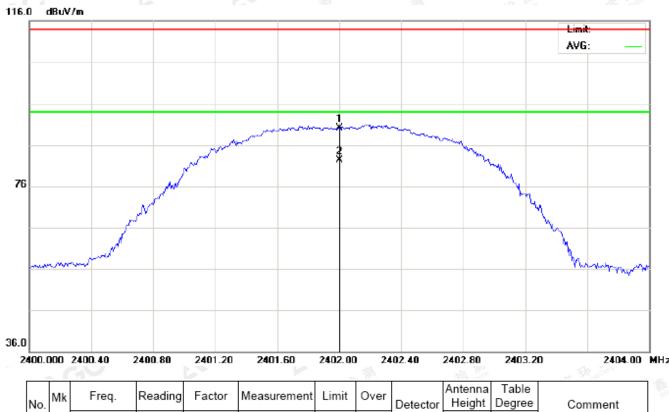
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment	
		•	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
	1		2402.000	79.81	10.32	90.13	114.00	-23.87	peak				
4	2	*	2402.000	72.02	10.32	82.34	94.00	-11.66	AVG	100	305		

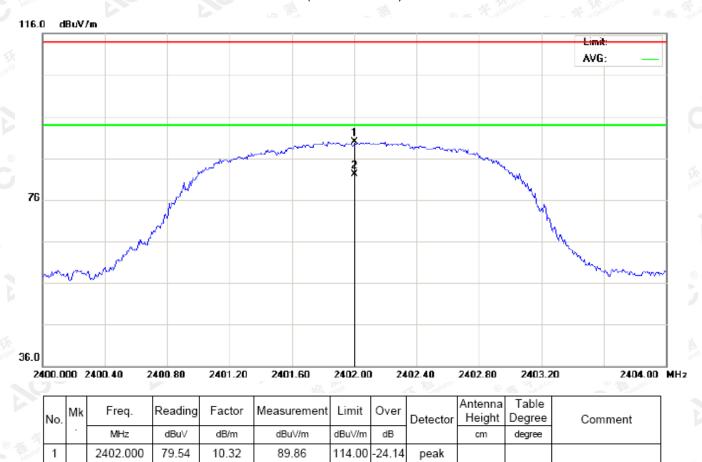
RESULT: PASS

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94.00

-11.91

AVG

141

100

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

RESULT: PASS

2

2402.000

71.77

10.32

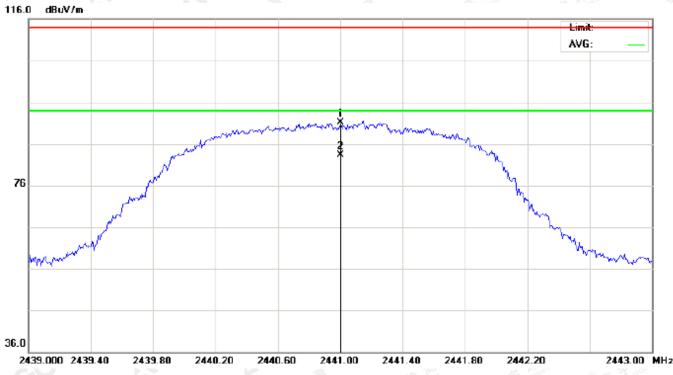
82.09

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

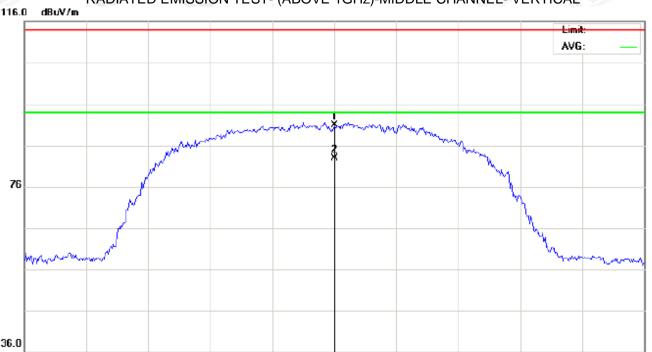
- 92												
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
Nr all	1		2441.000	80.70	10.36	91.06	114.00	-22.94	peak			
	2	*	2441.000	72.86	10.36	83.22	94.00	-10.78	AVG	100	346	

RESULT: PASS

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

36.0

2	439.0	000	2439.40	2439.80	2440.20	2440.60	2441.00	24	41.40	2441.80	2442.20	2443.00	MHz
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	Jel C
		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree		
	1		2441.000	80.45	10.36	90.81	114.00	-23.19	peak]
	2	*	2441.000	72.57	10.36	82.93	94.00	-11.07	AVG	100	133]

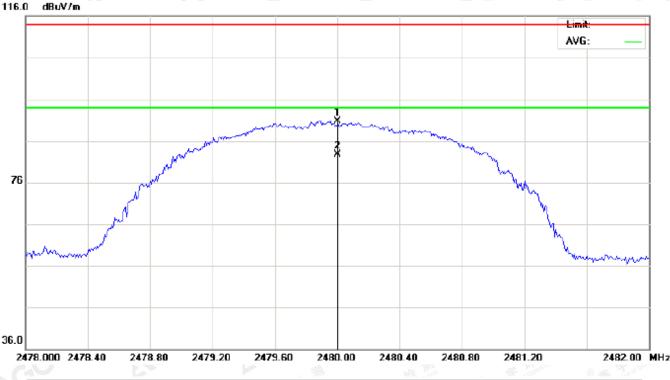
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 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	
20	1		2480.000	80.20	10.41	90.61	114.00	-23.39	peak			
	2	*	2480.000	72.35	10.41	82.76	94.00	-11.24	AVG	100	329	

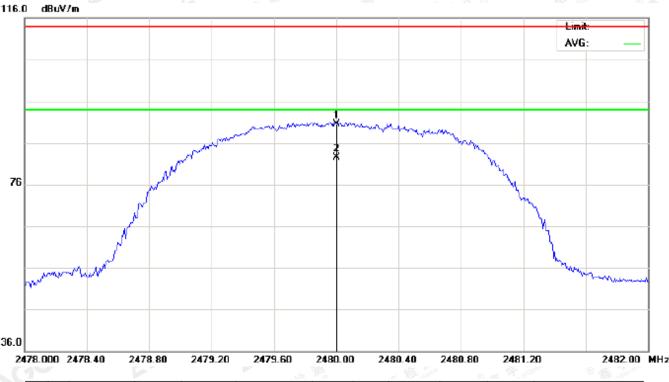
RESULT: PASS

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

						SLP.				1941	SEL AV	PSA3P - 3/0*
A	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	
ali	1		2480.000	80.02	10.41	90.43	114.00	-23.57	peak			
	2	*	2480.000	72.10	10.41	82.51	94.00	-11.49	AVG	100	171	

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	79.81	10.32	90.13	114	-23.87	Horizontal
2402	79.54	10.32	89.86	114	-24.14	Vertical
2441	80.70	10.36	91.06	114	-22.94	Horizontal
2441	80.45	10.36	90.81	114	-23.19	Vertical
2480	80.20	10.41	90.61	114	-23.39	Horizontal
2480	80.02	10.41	90.43	114	-23.57	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	72.02	10.32	82.34	94 0	-11.66	Horizontal
2402	71.77	10.32	82.09	94	-11.91	Vertical
2441	72.86	10.36	83.22	94	-10.78	Horizontal
2441	72.57	10.36	82.93	94	-11.07	Vertical
2480	72.35	10.41	82.76	94	-11.24	Horizontal
2480	72.10	10.41	82.51	94	-11.49	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	79.34	10.32	89.66	114	-24.34	Horizontal
2402	79.15	10.32	89.47	114	-24.53	Vertical
2441	80.33	10.36	90.69	114	-23.31	Horizontal
2441	80.07	10.36	90.43	114	-23.57	Vertical
2480	79.71	10.41	90.12	114	-23.88	Horizontal
2480	79.55	10.41	89.96	114	-24.04	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	71.64	10.32	81.96	94	-12.04	Horizontal
2402	71.40	10.32	81.72	94	-12.28	Vertical
2441	72.44	10.36	82.80	94	-11.20	Horizontal
2441	72.17	10.36	82.53	94	-11.47	Vertical
2480	71.92	10.41	82.33	94	-11.67	Horizontal
2480	71.78	10.41	82.19	94	-11.81	Vertical

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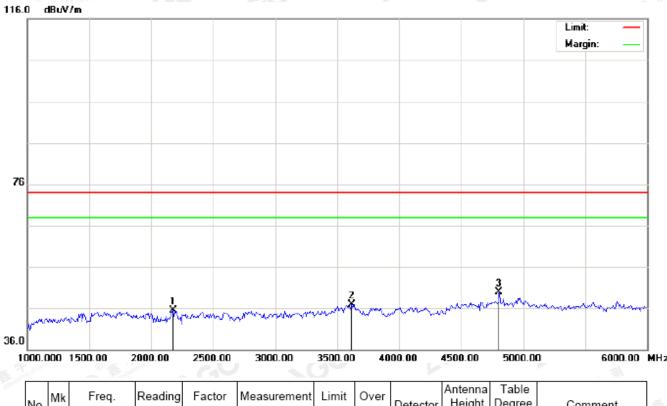


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(Worst modulation: GFSK)

For Harmonics

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



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2175.000	35.50	10.07	45.57	74.00	-28.43	peak			
2		3616.667	34.05	12.83	46.88	74.00	-27.12	peak			
3	*	4804.000	42.21	7.69	49.90	74.00	-24.10	peak			
	No. 1 2	1 2	MHz 1 2175.000 2 3616.667	MHz dBu∨ 1 2175.000 35.50 2 3616.667 34.05	MHz dBu√ dB/m 1 2175.000 35.50 10.07 2 3616.667 34.05 12.83	No. MHz dBuV dB/m dBuV/m 1 2175.000 35.50 10.07 45.57 2 3616.667 34.05 12.83 46.88	No. MHz dBuV dB/m dBuV/m dBuV/m 1 2175.000 35.50 10.07 45.57 74.00 2 3616.667 34.05 12.83 46.88 74.00	No. MHz dBuV dB/m dBuV/m dB 1 2175.000 35.50 10.07 45.57 74.00 -28.43 2 3616.667 34.05 12.83 46.88 74.00 -27.12	No. MHz dBuV dB/m dBuV/m dBuV/m dB 1 2175.000 35.50 10.07 45.57 74.00 -28.43 peak 2 3616.667 34.05 12.83 46.88 74.00 -27.12 peak	No. MHz dBu√ dB/m dBu√/m dBu√/m dB Detector Height 1 2175.000 35.50 10.07 45.57 74.00 -28.43 peak 2 3616.667 34.05 12.83 46.88 74.00 -27.12 peak	No. MHz dBuV dB/m dBuV/m dBuV/m dB Detector Height Degree 1 2175.000 35.50 10.07 45.57 74.00 -28.43 peak 2 3616.667 34.05 12.83 46.88 74.00 -27.12 peak

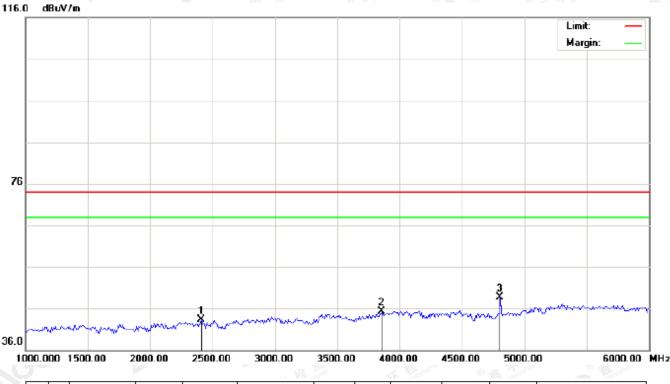
RESULT: PASS

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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
×.	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2408.333	32.93	10.33	43.26	74.00	-30.74	peak			
2		3858.333	30.93	14.32	45.25	74.00	-28.75	peak			
3	*	4804.000	41.05	7.69	48.74	74.00	-25.26	peak			

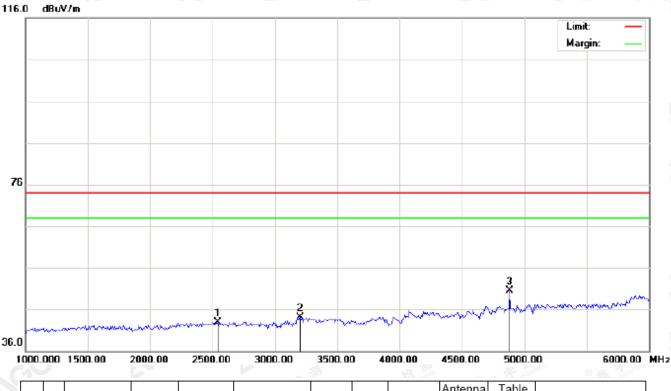
RESULT: PASS

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

-	٩o.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
2		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
13	1		2541.667	32.37	10.53	42.90	74.00	-31.10	peak			
	2		3200.000	32.36	11.83	44.19	74.00	-29.81	peak			
	3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

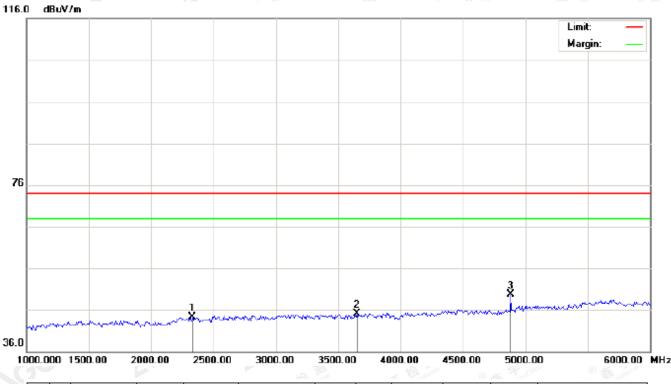
RESULT: PASS

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

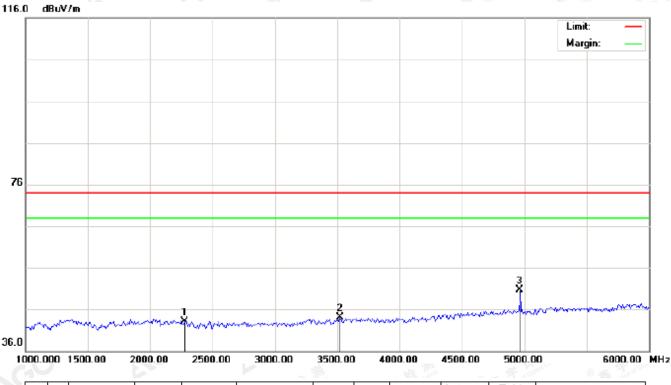
No	. N	٧k	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
X		•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1			2333.333	34.04	10.25	44.29	74.00	-29.71	peak			
2			3650.000	32.06	13.03	45.09	74.00	-28.91	peak			
3		*	4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

RESULT: PASS

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

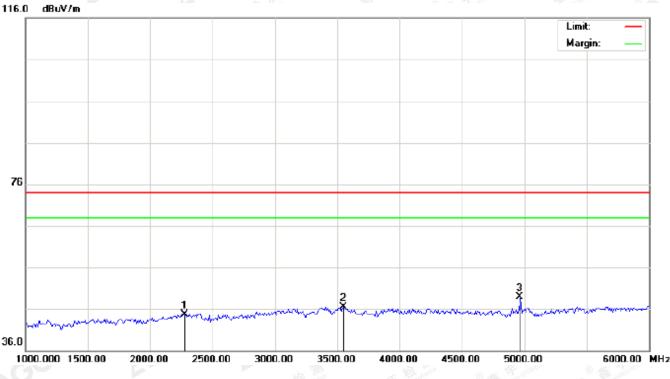
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
2		•	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
	1		2275.000	33.01	10.18	43.19	74.00	-30.81	peak			
	2		3525.000	31.79	12.26	44.05	74.00	-29.95	peak			
	3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

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	dBuV/m	dBuV/m	dB		cm	degree	
1		2275.000	34.52	10.18	44.70	74.00	-29.30	peak			
2		3550.000	34.15	12.42	46.57	74.00	-27.43	peak			
3	*	4960.000	40.91	8.09	49.00	74.00	-25.00	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

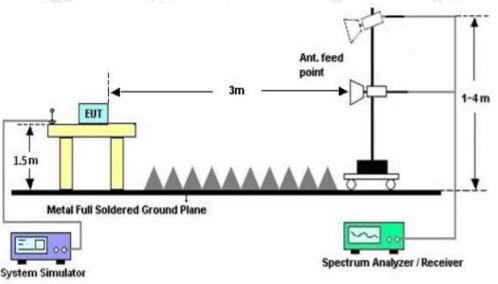
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

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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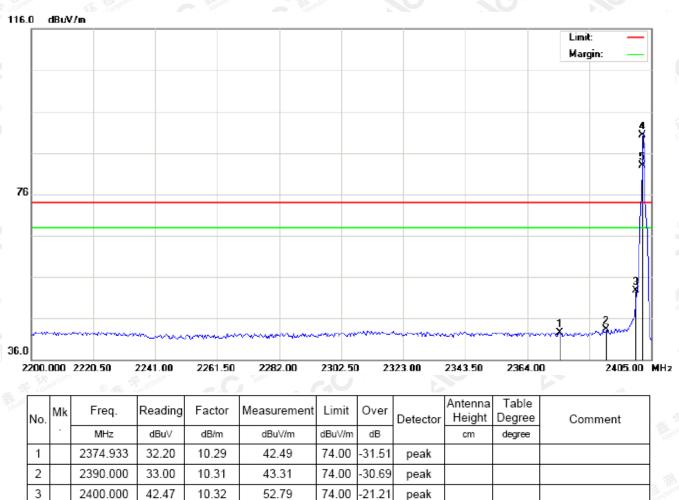


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



74.00

74.00

16.27

8.83

peak

AVG

100

304

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2402.000

2402.000

4

5 | X

79.95

72.51

10.32

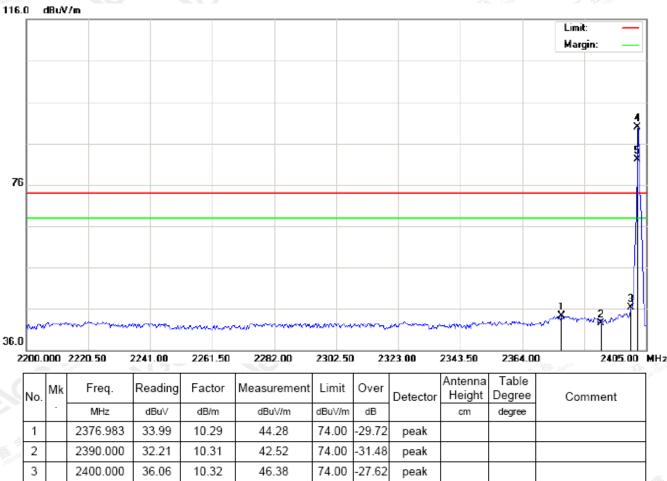
10.32

90.27

82.83



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74.00

74.00

15.91

8.16

peak

AVG

100

134

TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical

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4

5 X

2402.000

2402.000

79.59

71.84

10.32

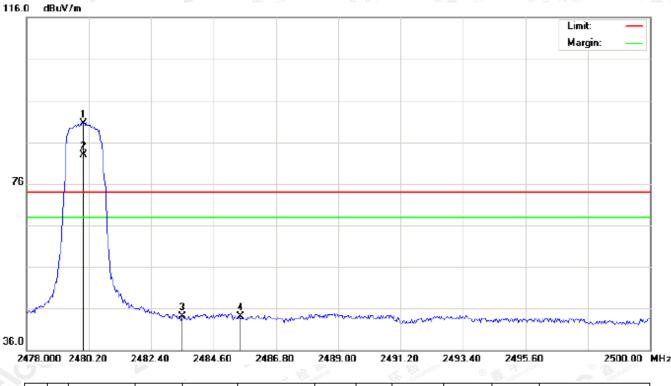
10.32

89.91

82.16



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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

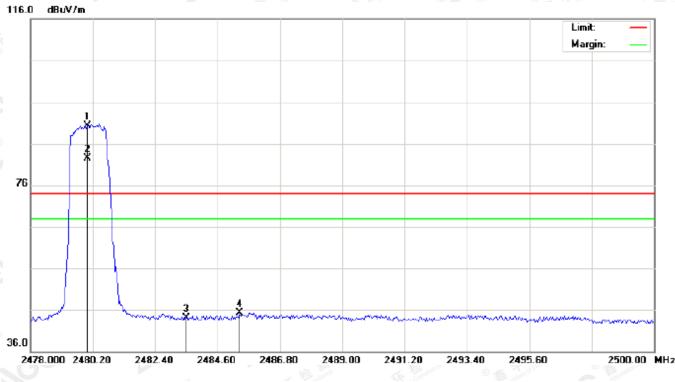
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
ą		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	cm	degree	
sti	1	*	2480.000	80.17	10.41	90.58	74.00	16.58	peak				
	2	Х	2480.000	72.43	10.41	82.84	74.00	8.84	AVG	100	303		
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak				
	4		2485.553	33.76	10.41	44.17	74.00	-29.83	peak				

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No	. м	Λk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
3		-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	cm	degree	
1	8	*	2480.000	79.96	10.41	90.37	74.00	16.37	peak				
2	>	X	2480.000	72.08	10.41	82.49	74.00	8.49	AVG	100	127		
3	Τ		2483.500	33.76	10.41	44.17	74.00	-29.83	peak				
4			2485.370	34.89	10.41	45.30	74.00	-28.70	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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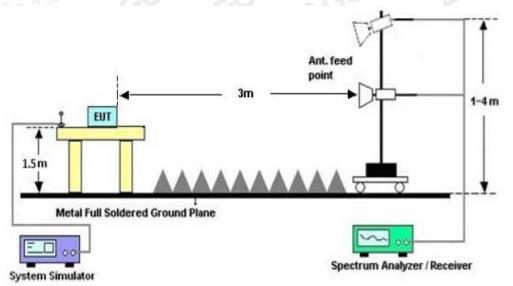
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11. 20DB BANDWIDTH

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



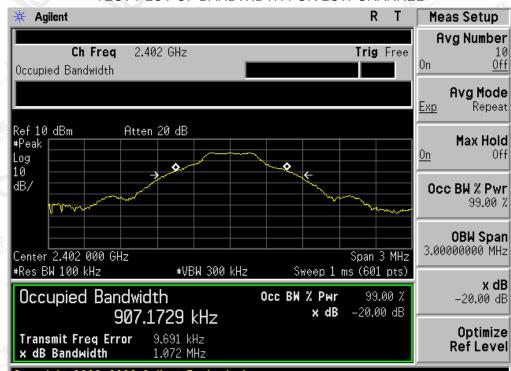
11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result								
Applicable Limits		Desult							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
An Comment C State Manual	Low Channel	0.907	1.072	PASS					
N/A	Middle Channel	0.906	1.080	PASS					
The second se	High Channel	0.904	1.067	PASS					

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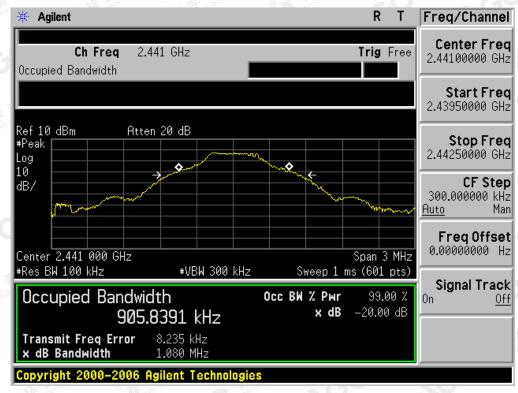


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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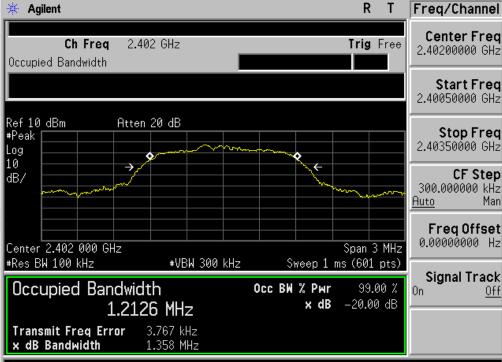
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Desult								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
The the man	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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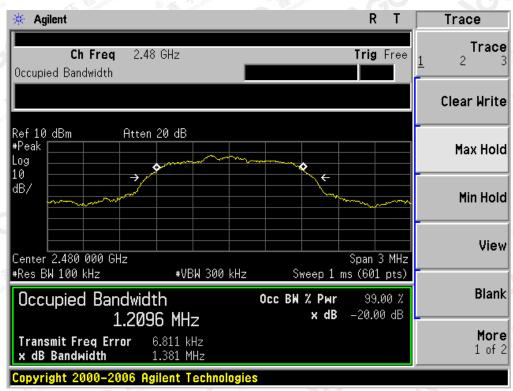
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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

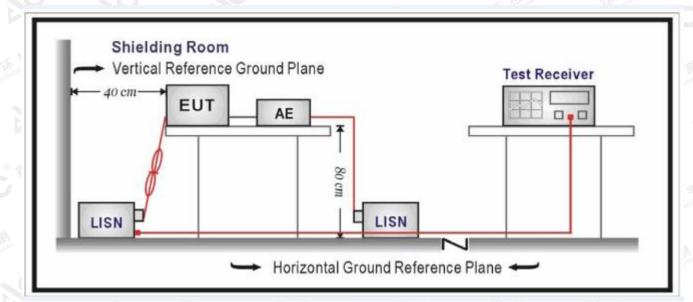
Francisco	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	© 56 56 °	46					
5MHz~30MHz	60	50					

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.
- 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.

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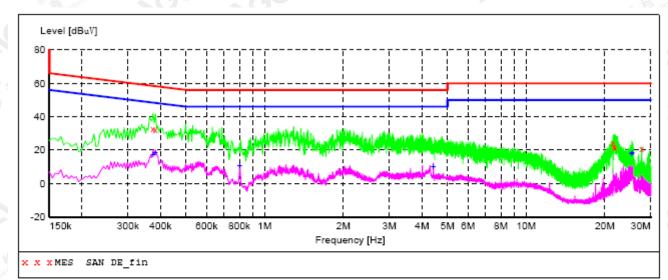
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "SAN DE fin"

2018-4-12 17:13

Frequency	Level	Transd	Limit	Margin	Detector	Line	ΡE	AUX STATE
MHz	dBuV	dB d	BuV	dB				
0.374000	33.10	0.2	58	25.3	QP	L1	FLO	ON
0.382000	32.20	0.2	58	26.0	QP	L1	FLO	ON
21.506000	24.40	0.8	60	35.6	QP	L1	FLO	ON
21.650000	21.80	0.8	60	38.2	QP	L1	FLO	ON
21.902000	21.40	0.8	60	38.6	QP	L1	FLO	ON
27.650000	20.60	0.9	60	39.4	QP	L1	FLO	ON

MEASUREMENT RESULT: "SAN DE fin2"

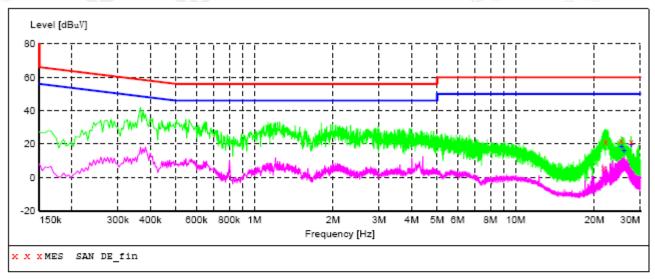
2018-4-12 17:13

Frequency	Level	Transd	Limit	Margin	Detector	Line	ΡE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.374000	17.50	0.2	48	30.9	AV	L1	FLO	ON
0.382000	18.30	0.2	48	29.9	AV	L1	FLO	ON
0.802000	10.50	0.2	46	35.5	AV	L1	FLO	ON
4.414000	9.80	0.3	46	36.2	AV	L1	FLO	ON
25.346000	18.00	0.9	50	32.0	AV	L1	FLO	ON
25.442000	18.20	0.9	50	31.8	AV	L1	FLO	ON

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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "SAN DE fin"

```
2018-4-12 17:37
```

Frequency Level Transd Limit Margin Detector Line \mathbf{PE} AUX STATE MHz dB dBuV dB dBuV 21.710000 6.10 0.8 60 53.9 FLO ON QP Ν FLO ON 22.114000 21.30 0.8 60 38.7 QP Ν N 25.346000 22.10 0.9 60 37.9 QP FLO ON 27.646000 21.60 0.9 60 38.4 Q₽ Ν FLO ON

MEASUREMENT RESULT: "SAN DE fin2"

2018-4-12 17:37 Frequency	Level	Transd	Limit	Margin	Detector	Line	ΡE	AUX STATE
MHz	dBuV	dB	dBu∛	dB				
25.438000 26.014000 27.646000 27.650000	18.40 15.90 19.90 19.60	0.9 0.9 0.9 0.9	50 50 50 50	31.6 34.1 30.1 30.4	AV AV AV AV	N N N N	FLO FLO FLO FLO	ON ON ON ON

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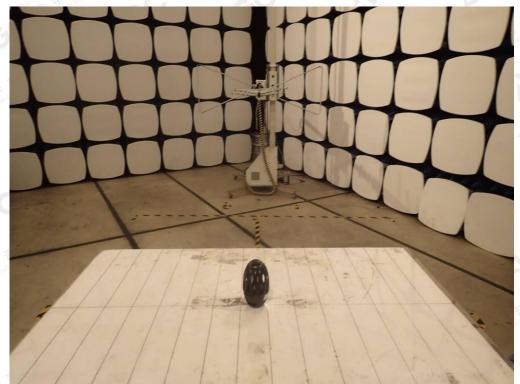


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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

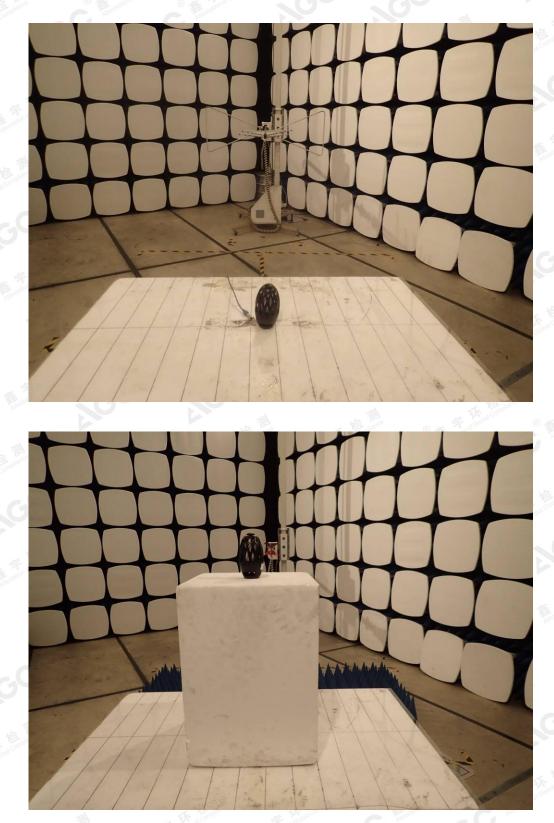


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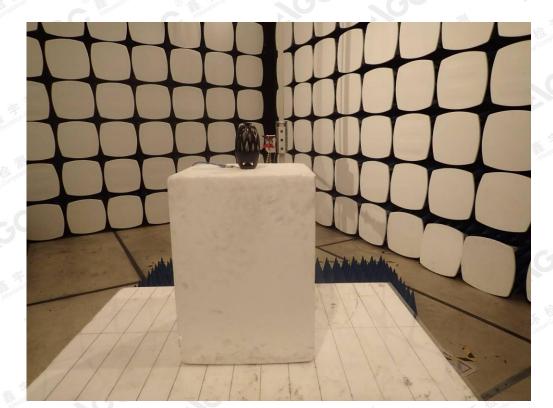
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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



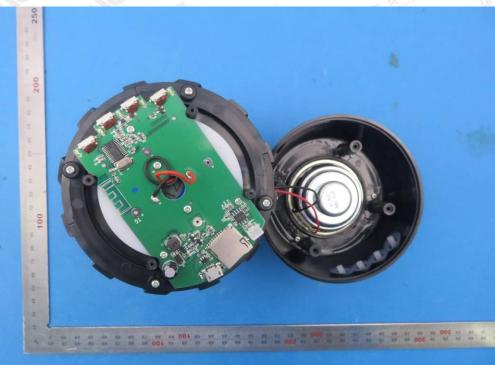
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OPEN VIEW OF EUT



VIEW OF BATTERY

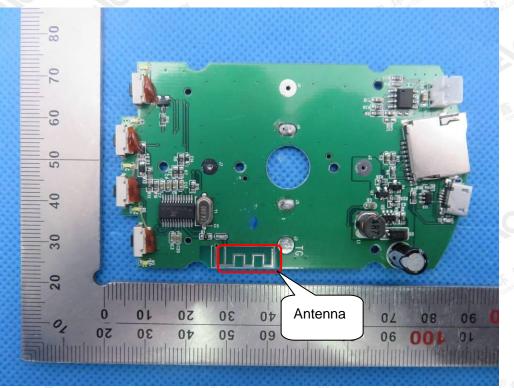


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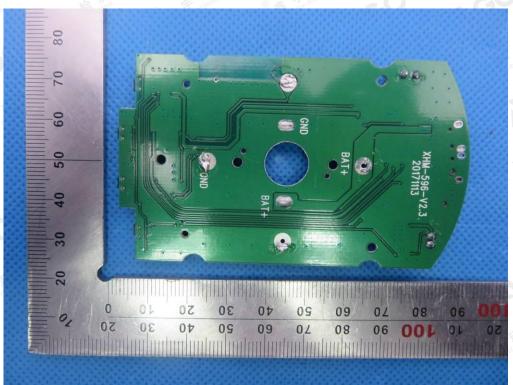


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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

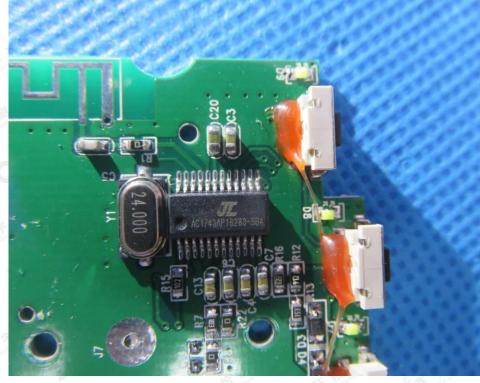


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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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