

FCC Test Report

Report No.: AGC01707180501FE03

FCC ID : 2AAZR-HSD9036A

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: LED TABLE LAMP WITH BLUETOOTH SPEAKER

BRAND NAME : N/A

MODEL NAME : HSD9036A, SP900, HSD9036B, HSD9036C

CLIENT: SHENZHEN HIGHSTAR ELECTRICAL CO.,LTD

DATE OF ISSUE : May 11, 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	Jumes 1 8 Filter	May 11, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN HIGHSTAR ELECTRICAL CO.,LTD
Address	2F, 4&5F, Building6, Ya Lian Highstar Industrial Zone, 5022 Wuhe Avenue, Bantian Street, Longgang District, Shenzhen China.
Manufacturer	SHENZHEN HIGHSTAR ELECTRICAL CO.,LTD
Address	2F, 4&5F, Building6, Ya Lian Highstar Industrial Zone, 5022 Wuhe Avenue, Bantian Street, Longgang District, Shenzhen China.
Product Designation	LED TABLE LAMP WITH BLUETOOTH SPEAKER
Brand Name	N/A
Test Model	HSD9036A
Series Model	SP900, HSD9036B, HSD9036C
Difference Description	All the same except for the model name
Date of test	Apr. 25, 2018 to May 05, 2018
Deviation	None of the second seco
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		Harry	Zhang		
Todaca By	Henry Zha	ng(Zhang Zh	nuorui)	May 05, 2018	-
Reviewed By		cul a	heng		
© Manufaction Common	Cool Cheng	g(Cheng Mer	ngguo)	May 11, 2018	,
Approved By		Fower	لنعنظ		
Allares © Allactores		ei(Lei Yongg orized Officei		May 11, 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	-7.15dBm(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	-0.58dBi
Power Supply	INPUT: 100-240V~50/60HZ 0.4A Max OUTPUT: 5V===2A

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency
, GC	0	2402MHz
· in	1 5 5	2403MHz
The Action Compliance	E. Janes C. Therman	100 10
Alles Alles	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The transfer of the same	40	2442 MHz
Coloni Complained (8) St. Barbardon of Cal	C ***	30
CO PC	77	2479 MHz
lite:	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 The demphases	TK Kinghance	,	不	Low	chani	nel GFSk	(C) Allestation C		
@	2 01 0	station of Globald	® Attests	ion of old	Middl	e chai	nnel GFS	SK		n)
60	3				High	chan	nel GFSI	K Kingling	不管	^{Suce}
	4		KEL JUNIO	5	Low ch	annel	π /4-DQI	PSK	® Attention of Gunba	\C
I Allance	5	© Andron of C	Hopal Court	® \$	Middle cl	hanne	l π /4-DC	QPSK		
W.	© 6 00 00 00 00 00 00 00 00 00 00 00 00 0	10	C	O	High ch	annel	π /4-DQ	PSK	超 测	TO Y
GC	7			N/SL	- FILL	BTL	ink	® # Fords	bal Comodin	ion of Global
	12 11/2	授 测	4	Softv	ware Setting	Jot Clopar Con		Alleran	- GO "	
icc icc	FCCAssist 1.5									×
351210	Parameter									
	MODE	TX 💌								13
	Channel	78 🔻	Packe	t type	2-DH3 ×	D	ata Types	Pn9	~	Z.
	Transmit Power	10 🕶	Нор	ping	OFF	S	erial Port	сомз	<u>~</u> 🔊	Cot
C		:03 ata Types: Pn9						Send config	uration	
	Fransmit Power : 10 Send configuration info	Packet type: 2-i ormation successfu		Descr	ription:					Atte
				1, (Channel: range	0-78, c	orrespondin	g frequency	2.402GHz-2.480G	HZ
P.M.				2, 1	Transmit Power	range	0-10, 0 is t	he minimum,	maximum 10	

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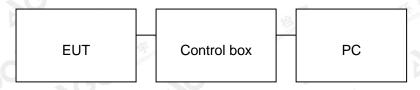
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

		abai			
Item	Equipment	Equipment Mfr/Brand		Remark	
10	LED TABLE LAMP WITH BLUETOOTH SPEAKER	HIGHSTAR	HSD9036A	EUT	
2	PC	APPLE	A1465	A.E	
3	Control box	GZUT	N/A	A.E	
4	Adapter	NALIN	NLB200050W1A4S95	Accessory	
5	AUX IN Cable	N/A	0.4m unshielded	Accessory	
6	LOAD	HXP	RX24	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

No.	
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	R&S	ESPI	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	MXT	RS1	R006	June 6, 2017	June 5, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	The consumo	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	-C	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)	9			
0.490 ~ 1.705	30	24000/F(kHz)	技訓			
1.705 ~ 30	30	30 (1)	E Cobaco (Color of Color of Co			
30 ~ 88	3 F 1000	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. I	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m			

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

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

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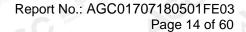


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The following table is the setting of spectrum analyzer and receiver.

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

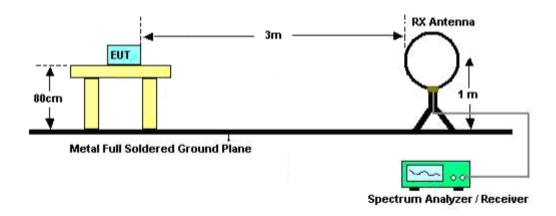
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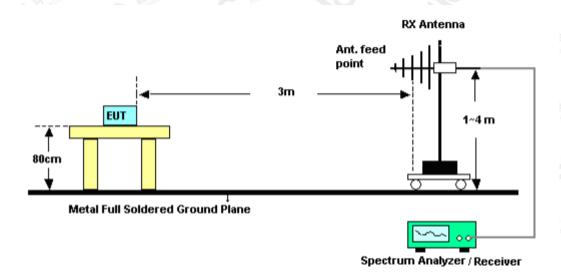


9.3. TEST SETUP

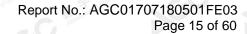
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

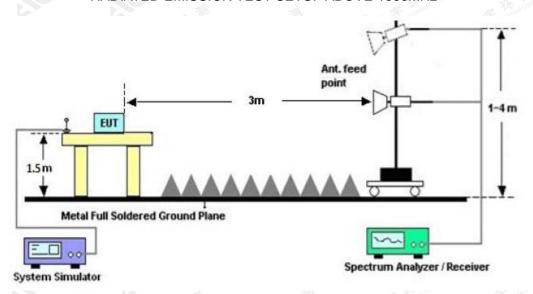


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

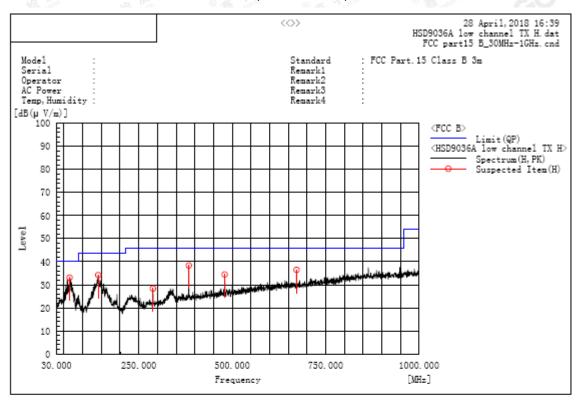
(Worst modulation: π /4-DQPSK)

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:

X G	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
	64.920	H	17.5	15.6	33.1	40.0	6.9	Pass	200.0	208.2
	141.550	Н	17.6	16.6	34.2	43.5	9.3	Pass	100.0	65.8
(2)	288.020	Н	10.7	17.6	28.3	46.0	17.7	Pass	200.0	100.4
	384.050	Н	18.1	20.2	38.3	46.0	7.7	Pass	150.0	252.7
	480.080	Н	11.9	22.6	34.5	46.0	11.5	Pass	200.0	63.8
	672.140	Н	10.6	25.9	36.5	46.0	9.5	Pass	150.0	182.2

RESULT: PASS

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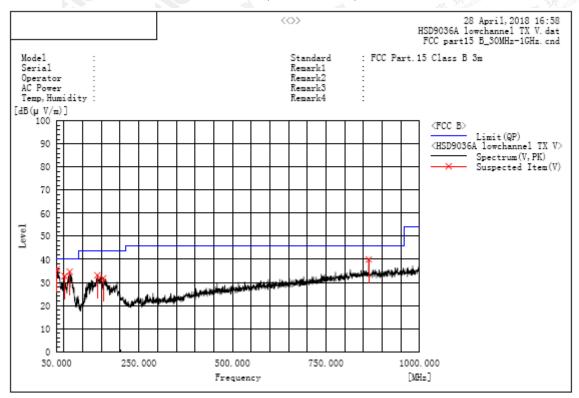
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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	30.485	V	20.3	15.5	35.8	40.0	4.2	Pass	150.0	287.1
Г	51.340	V	15.8	17.0	32.8	40.0	7.2	Pass	200.0	322.9
Г	64.920	v	19.1	15.6	34.7	40.0	5.3	Pass	200.0	142.1
Г	139.125	V	16.5	16.6	33.1	43.5	10.4	Pass	150.0	251.6
	154.645	V	15.3	16.6	31.9	43.5	11.6	Pass	150.0	287.1
	864.200	V	10.2	29.8	40.0	46.0	6.0	Pass	100.0	287.6

RESULT: PASS

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

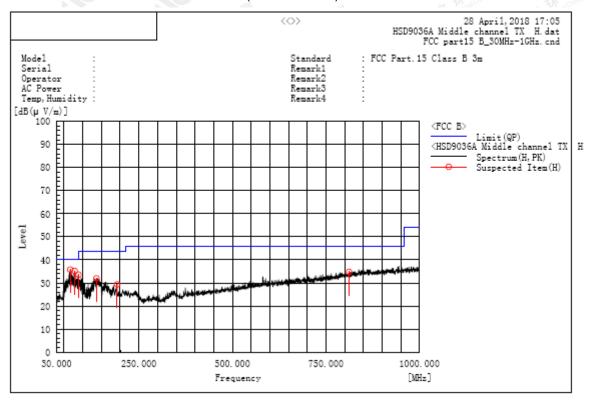
The "Factor" value can be calculated automatically by software of measurement system.

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



A. Suspected List:

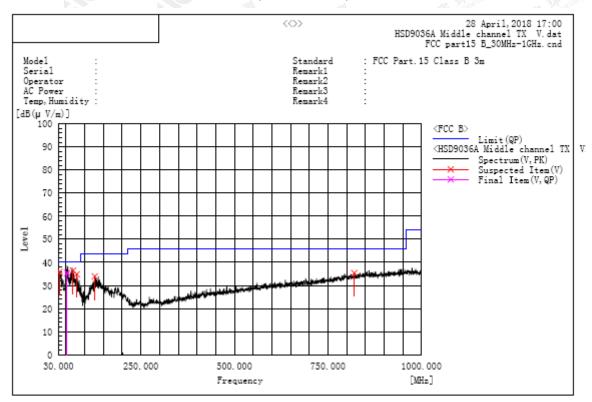
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u\//m) QP	Marqin dB	Pass/Fail	Height cm	Angle deg
	66.375	H	20.5	15.3	35.8	40.0	4.2	Pass	100.0	257.0
ſ	78.500	Н	22.9	12.3	35.2	40.0	4.8	Pass	150.0	276.4
	88.685	H	21.3	12.3	33.6	43.5	9.9	Pass	150.0	286.2
	136.700	Н	15.4	16.6	32.0	43.5	11.5	Pass	100.0	263.3
31	191.990	Н	15.7	13.7	29.4	43.5	14.1	Pass	150.0	301.3
	811.820	Н	5.8	29.0	34.8	46.0	11.2	Pass	200.0	181.0

RESULT: PASS

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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
Г	32.425	V	20.1	15.8	35.9	40.0	4.1	Pass	100.0	63.0
	68.315	V	21.5	14.9	36.4	40.0	3.6	Pass	100.0	141.9
Г	78.500	v	22.6	12.3	34.9	40.0	5.1	Pass	100.0	269.2
í	126.515	V	18.1	15.9	34.0	43.5	9.5	Pass	100.0	44.8
31/	820.550	V	6.3	29.1	35.4	46.0	10.6	Pass	100.0	84.8

RESULT: PASS

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

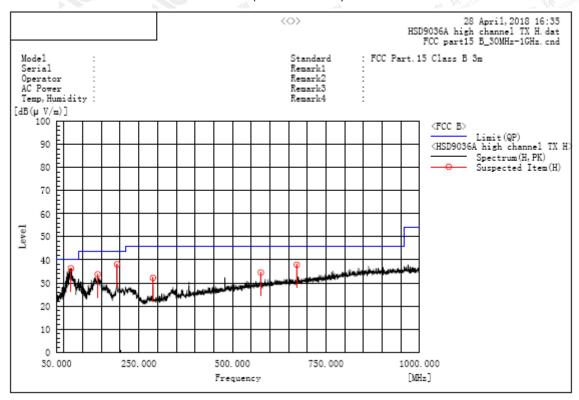
2. The "Factor" value can be calculated automatically by software of measurement system.

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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	Marqin dB	Pass/Fail	Height cm	Angle deg
68.315	Н	21.4	14.9	36.3	40.0	3.7	Pass	150.0	285.4
140.095	Н	17.2	16.6	33.8	43.5	9.7	Pass	150.0	112.0
191.990	Н	24.4	13.7	38.1	43.5	5.4	Pass	200.0	261.0
288.020	Н	14.6	17.6	32.2	46.0	13.8	Pass	100.0	91.2
576.110	Н	10.0	24.5	34.5	46.0	11.5	Pass	100.0	40.0
672.140	Н	12.0	25.9	37.9	46.0	8.1	Pass	150.0	319.7

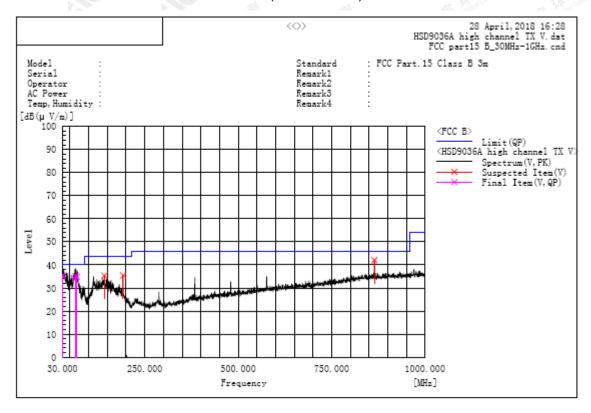
RESULT: PASS

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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
142.035	V	18.8	16.6	35.4	43.5	8.1	Pass	100.0	161.9
191.990	v	21.8	13.7	35.5	43.5	8.0	Pass	100.0	266.8
864.200	V	12.3	29.8	42.1	46.0	3.9	Pass	100.0	222.8

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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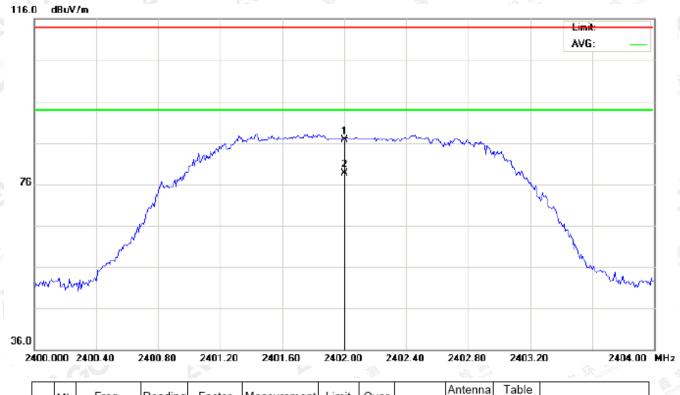
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: π /4-DQPSK)

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	76.37	10.32	86.69	114.00	-27.31	peak			
2	*	2402.000	68.41	10.32	78.73	94.00	-15.27	AVG	100	254	

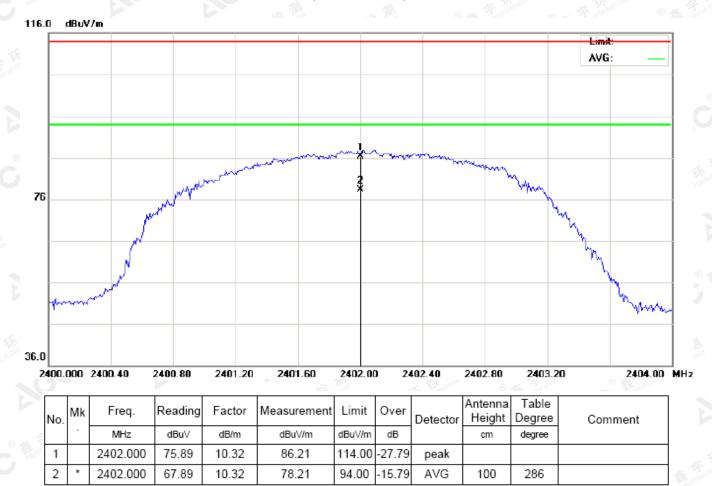
RESULT: PASS

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



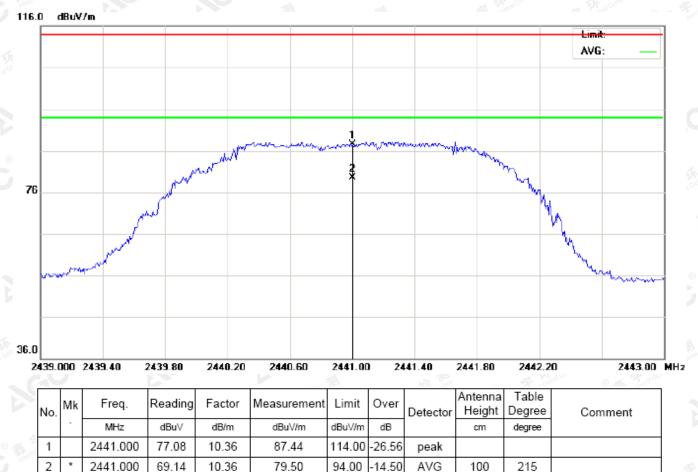
RESULT: PASS

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



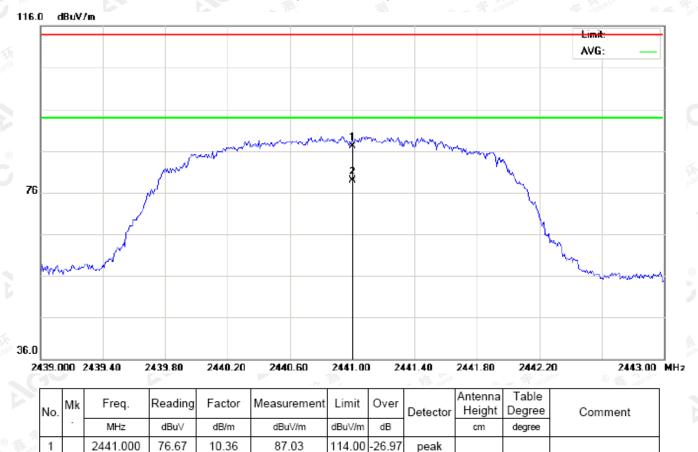
RESULT: PASS

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



94.00

-15.02

AVG

100

149

RESULT: PASS

2441.000

68.62

10.36

78.98

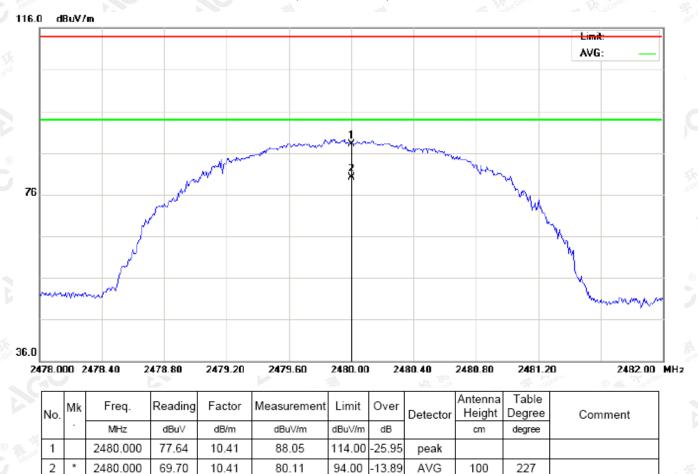
2

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



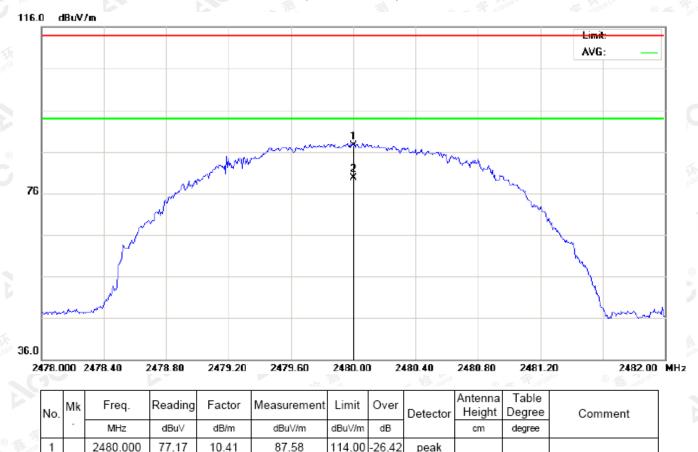
RESULT: PASS

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



RESULT: PASS

2480.000

69.23

10.41

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

79.64

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

94.00

-14.36

AVG

100

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Field strength of the fundamental signal

2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.37	10.32	86.69	114	-27.31	Horizontal
2402	75.89	10.32	86.21	114	-27.79	Vertical
2441	77.08	10.36	87.44	114	-26.56	Horizontal
2441	76.67	10.36	87.03	114	-26.97	Vertical
2480	77.64	10.41	88.05	114	-25.95	Horizontal
2480	77.17	10.41	87.58	114	-26.42	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	68.41	10.32	78.73	94	-15.27	Horizontal
2402	67.89	10.32	78.21	94	-15.79	Vertical
2441	69.14	10.36	79.50	94	-14.50	Horizontal
2441	68.62	10.36	78.98	94	-15.02	Vertical
2480	69.70	10.41	80.11	94	-13.89	Horizontal
2480	69.23	10.41	79.64	94	-14.36	Vertical

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	75.95	10.32	86.27	114	-27.73	Horizontal	
2402	75.39	10.32	85.71	114	-28.29	Vertical	
2441	76.63	10.36	86.99	114	-27.01	Horizontal	
2441	76.20	10.36	86.56	114	-27.44	Vertical	
2480	77.19	10.41	87.60	114	-26.40	Horizontal	
2480	76.73	10.41	87.14	114	-26.86	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	67.95	10.32	78.27	94	-15.73	Horizontal	
2402	67.42	10.32	77.74	94	-16.26	Vertical	
2441	68.64	10.36	79.00	94	-15.00	Horizontal	
2441	68.18	10.36	78.54	94	-15.46	Vertical	
2480	69.29	10.41	79.70	94	-14.30	Horizontal	
2480	68.76	10.41	79.17	94	-14.83	Vertical	

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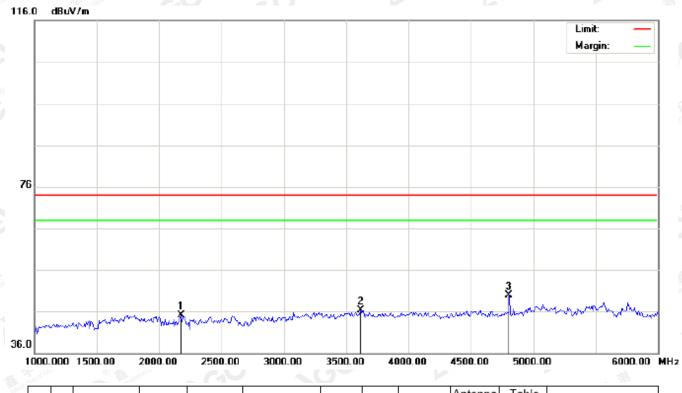


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(Worst modulation: π /4-DQPSK)

For Harmonics

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



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	100
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree		
	1		2175.000	35.00	10.07	45.07	74.00	-28.93	peak]
	2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak				1
	3	*	4804.000	42.21	7.69	49.90	74.00	-24.10	peak				35

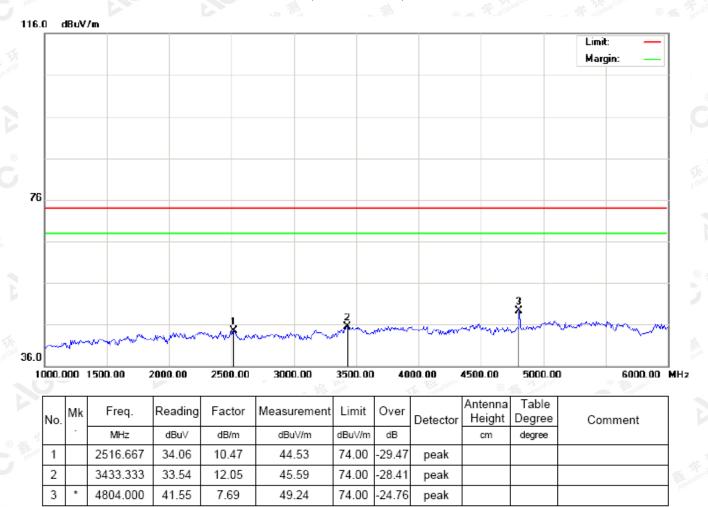
RESULT: PASS

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



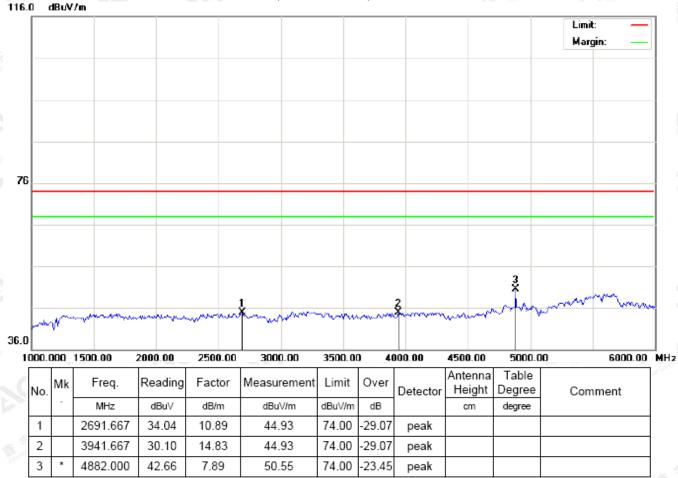
RESULT: PASS

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



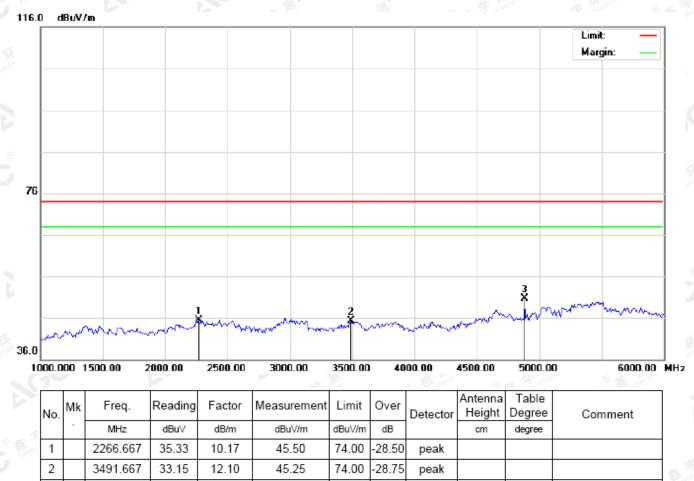
RESULT: PASS

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



74.00

23.22

peak

RESULT: PASS

42.89

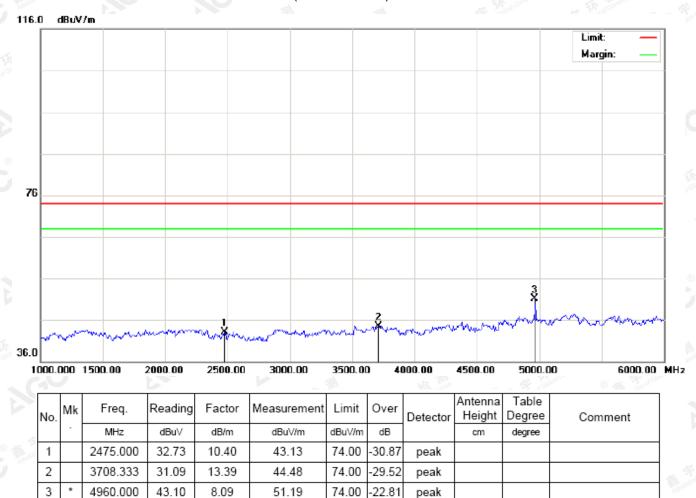
4882.000

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



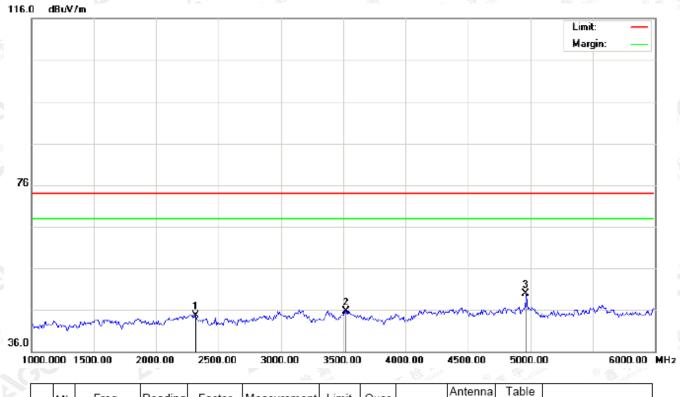
RESULT: PASS

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



1	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3	-	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
(3)	1		2316.667	34.42	10.23	44.65	74.00	-29.35	peak			
Γ	2		3525.000	33.52	12.26	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

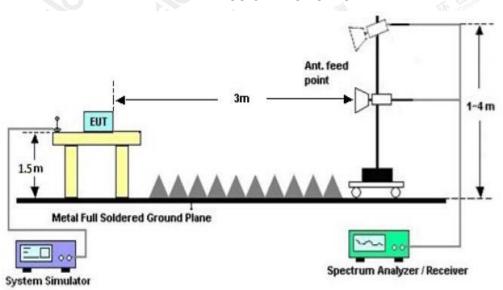
10.1. MEASUREMENT PROCEDURE

- 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 frequenc	y(MHz)		Stop frequency(MHz)			
	2200	Kimplence	The Committee	@ ## glation of G	2405	100	
(S) ### (1)	2478	3lobal C	Autostation of Glob	·,O *	2500		

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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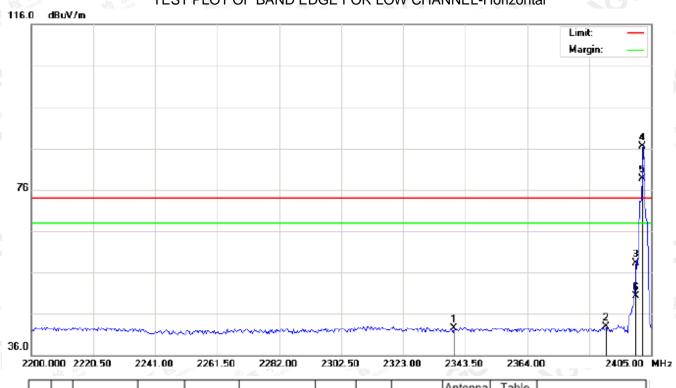


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10.3 RADIATED TEST RESULT

(Worst modulation: π /4-DQPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



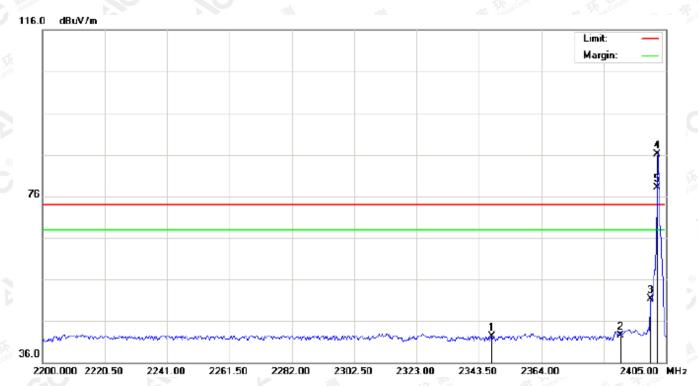
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu\//m	dB		cm	degree	
1		2339.742	32.23	10.25	42.48	74.00	-31.52	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	47.97	10.32	58.29	74.00	-15.71	peak			
4	*	2402.000	76.13	10.32	86.45	74.00	12.45	peak			
5	Х	2402.000	68.29	10.32	78.61	74.00	4.61	AVG	100	247	
6		2400.000	39.89	10.32	50.21	54.00	-3.79	AVG	100	132	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



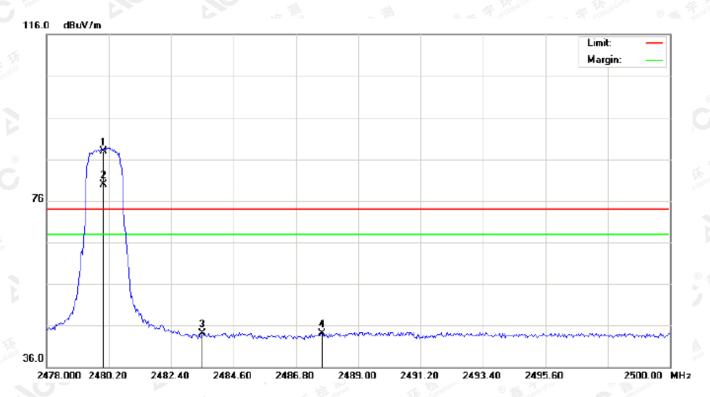
. ·												Star Clar
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
10	1		2347.600	32.01	10.26	42.27	74.00	-31.73	peak			
	2		2390.000	32.21	10.31	42.52	74.00	-31.48	peak			
	3		2400.000	41.06	10.32	51.38	74.00	-22.62	peak			
	4	*	2402.000	75.77	10.32	86.09	74.00	12.09	peak			
	5	Х	2402.000	67.83	10.32	78.15	74.00	4.15	AVG	100	275	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



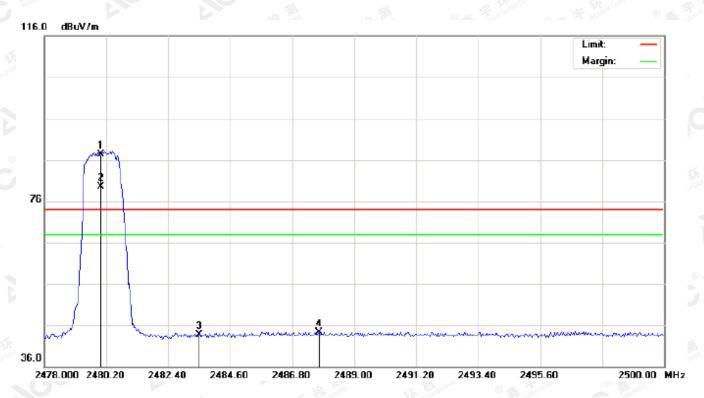
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1	*	2480.000	77.53	10.41	87.94	74.00	13.94	peak			
Γ	2	Х	2480.000	69.57	10.41	79.98	74.00	5.98	AVG	100	261	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2487.716	33.68	10.42	44.10	74.00	-29.90	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	1 1	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	76.98	10.41	87.39	74.00	13.39	peak			
2	Х	2480.000	69.04	10.41	79.45	74.00	5.45	AVG	100	134	
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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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

FOR BR/EDR

BLUETO	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Test Data (MHz)							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
Social Company	Low Channel	0.906	1.037	PASS					
N/A	Middle Channel	0.903	1.048	PASS					
- FIII	High Channel	0.896	1.065	PASS					

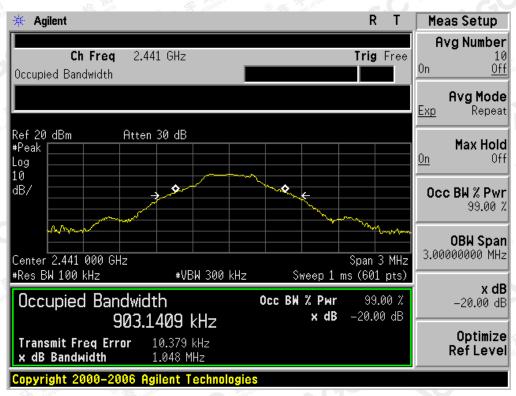
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

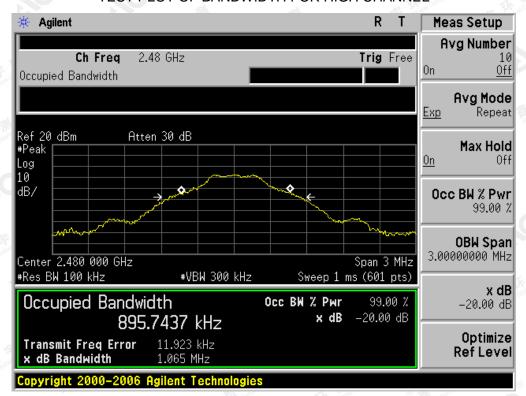


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



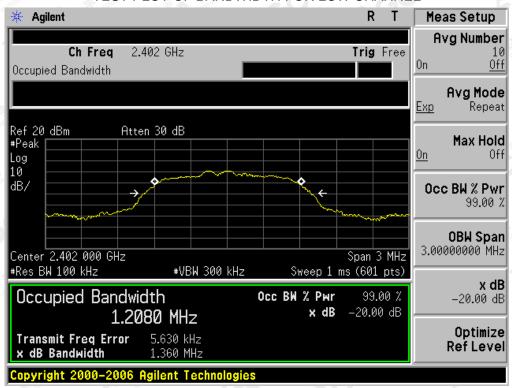
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT											
		Measure	ement Result								
Applicable Limits		Dooult									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
TO THE	Low Channel	1.208	1.360	PASS							
N/A	Middle Channel	1.212	1.382	PASS							
	High Channel	1.214	1.360	PASS							

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

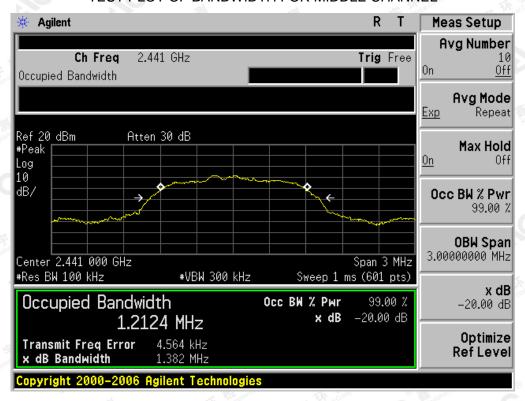


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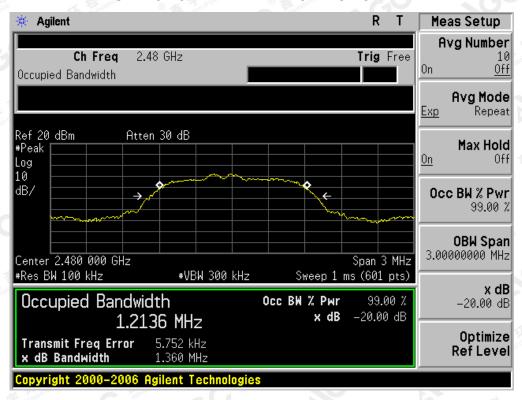




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

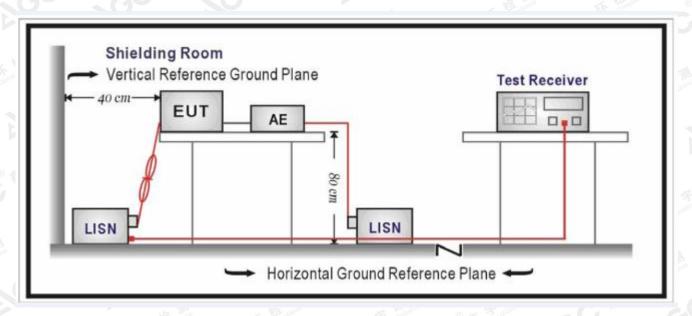
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage								
Frequency	Q.P.(dBuV)	Average(dBuV)							
150kHz~500kHz	66-56	56-46							
500kHz~5MHz	8 Age 12	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 voltage by adapter 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

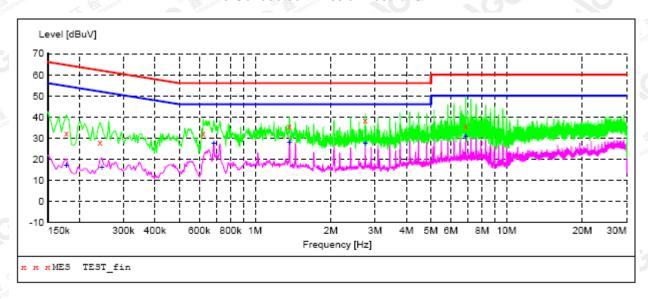
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/4/26 11:03

2018/4/26 11	:03						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000	32.20	10.0	65	32.4	QP	L1	FLO
0.242000	27.90	10.1	62	34.1	QP	L1	FLO
0.622000	32.00	10.1	56	24.0	QP	L1	FLO
1.370000	35.60	10.2	56	20.4	QP	L1	FLO
2.742000	38.20	9.9	56	17.8	QP	L1	FLO
6.874000	35.50	10.3	60	24.5	QP	L1	FLO

MEASUREMENT RESULT: "TEST fin2"

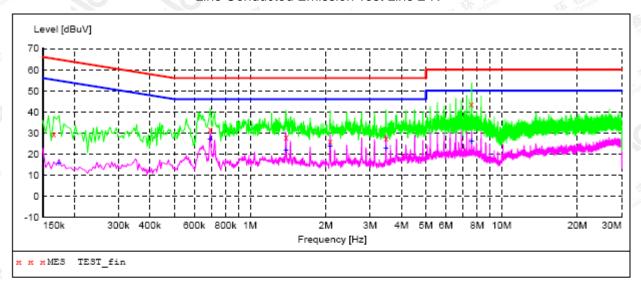
2018/4/26 11:03

2018/4/	26 11:	03						
Freq	uency MHz	Level dBuV		Limit dBuV	Margin dB	Detector	Line	PE
0.1	78000	17.20	10.0	55	37.4	AV	L1	FLO
0.2	46000	16.30	10.1	52	35.6	AV	L1	FLO
0.6	86000	27.40	10.1	46	18.6	AV	L1	FLO
1.3	70000	28.10	10.2	46	17.9	AV	L1	FLO
2.7	42000	27.70	9.9	46	18.3	AV	L1	FLO
6.8	74000	31.00	10.3	50	19.0	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

2018/4/26 11:07

2018/4/26 11:	07						
Frequency MHz	Level dBuV	Transd dB	Limit dBV	Margin dB	Detector	Line	PE
0.166000	29.30	10.0	65	35.9	QP	N	FLO
0.694000	31.80	10.1	56	24.2	QP	N	FLO
1.390000	28.00	10.2	56	28.0	QP	N	FLO
2.082000	26.00	10.2	56	30.0	QP	N	FLO
3.466000	27.50	10.0	56	28.5	QP	N	FLO
7.598000	43.40	10.2	60	16.6	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2018/4/26 11:07

Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000	15.50	10.0	55	39.3	AV	N	FLO
0.694000	27.10	10.1	46	18.9	AV	N	FLO
1.390000	22.00	10.2	46	24.0	AV	N	FLO
2.082000	23.90	10.2	46	22.1	AV	N	FLO
3.466000	22.80	10.0	46	23.2	AV	N	FLO
7.598000	25.90	10.2	50	24.1	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

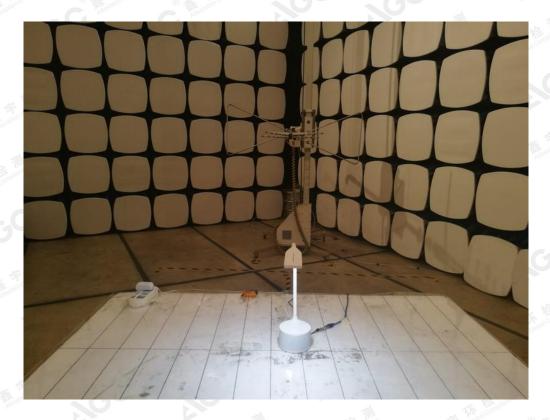


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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT

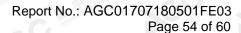


TOP VIEW OF EUT



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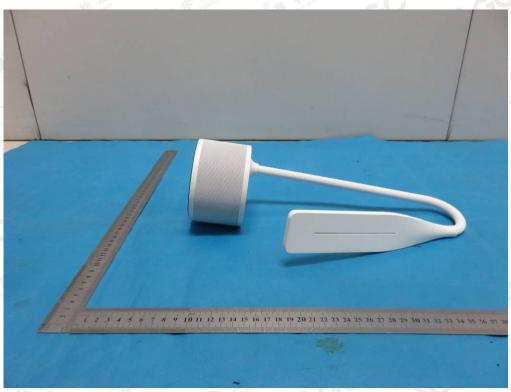




BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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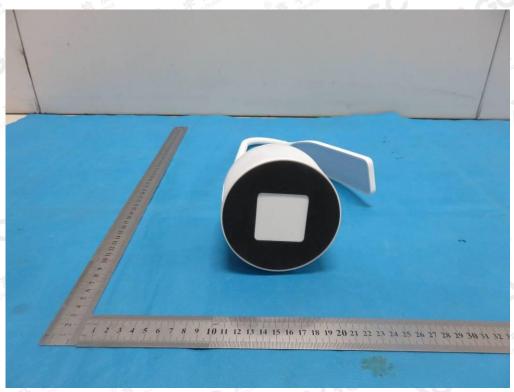




BACK VIEW OF EUT



LEFT VIEW OF EUT

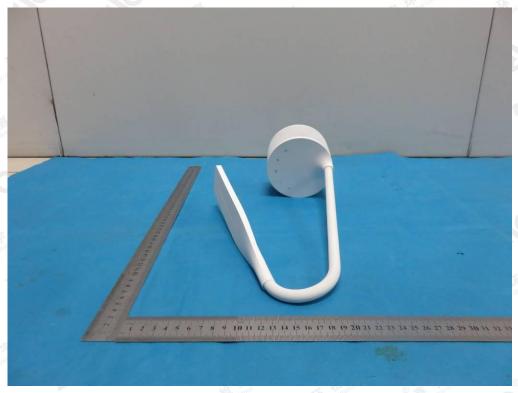


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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)

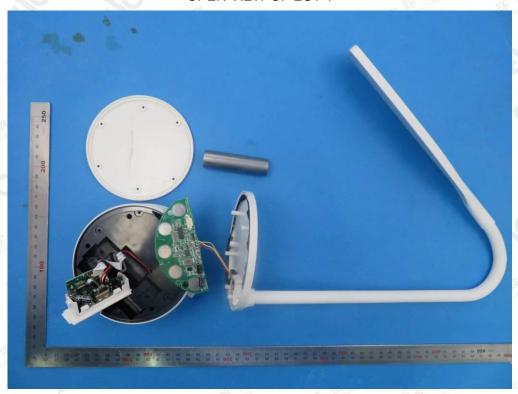


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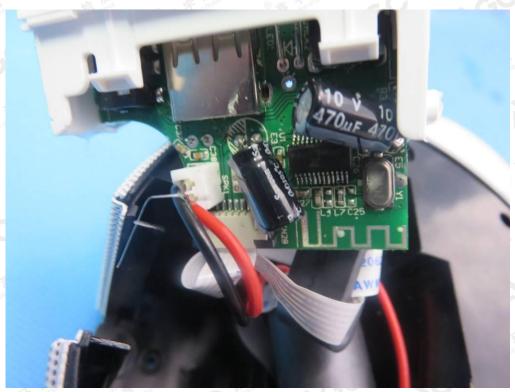
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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2

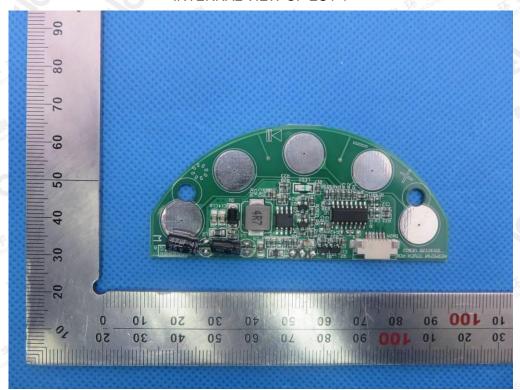


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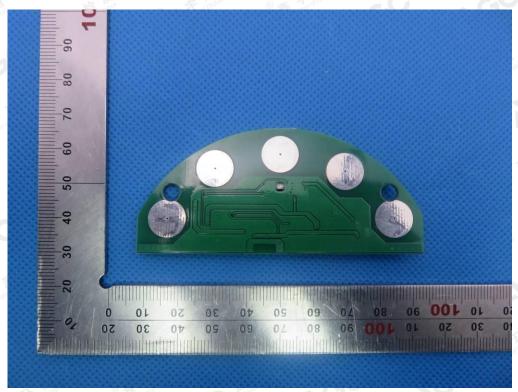
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2

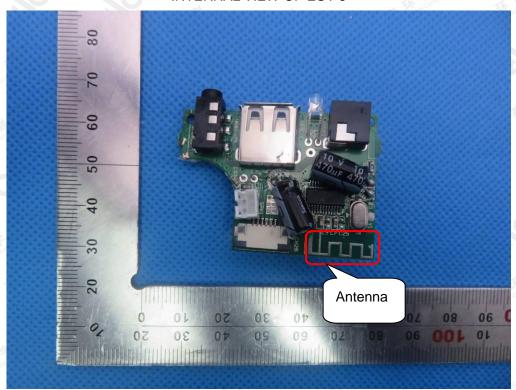


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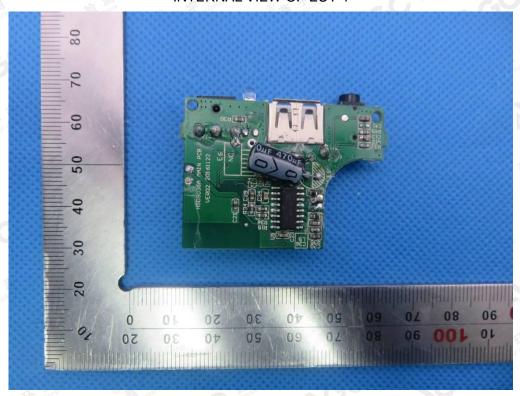
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INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4

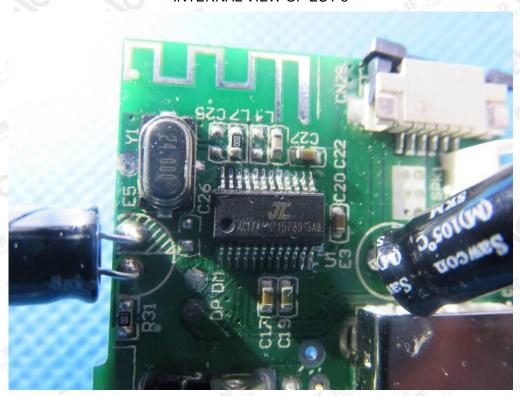


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INTERNAL VIEW OF EUT-5



VIEW OF ADAPTER



----END OF REPORT----

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