

FCC Test Report

Report No.: AGC00737180610FE03

FCC ID : 2AMH2-BH261A

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: WIRELESS TRANSMITTER

BRAND NAME: MPOW

MODEL NAME : BH261A, BH261B, BH261C, BH261D, BH261E, BH261F

CLIENT: MPOW TECHNOLOGY CO.,LIMITED

DATE OF ISSUE : July 09, 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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Attestation of Global Compliance

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	So The second se	July 09, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	MPOW TECHNOLOGY CO.,LIMITED
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA
Manufacturer	MPOW TECHNOLOGY CO.,LIMITED
Address	RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST, CHEUNG SHA WAN KL, HK, CHINA
Product Designation	WIRELESS TRANSMITTER
Brand Name	MPOW
Test Model	BH261A
Series Model	BH261B, BH261C, BH261D, BH261E, BH261F
Difference description	All the same except for the model name and appearance color
Date of test	June 25, 2018 to July 05, 2018
Deviation	None 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	Henry Zh	ang
Goldal Complaines	Henry Zhang(Zhang Zhuo	rui) July 05, 2018
NGC "	and che	y
Reviewed By	The land of the	Coopa Carrier of
	Cool Cheng(Cheng Mengg	uo) July 09, 2018
S SC	Foresto	Zi Handania
Approved By	The training	® A Jion of Good
	Forrest Lei(Lei Yonggang Authorized Officer) July 09, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

7 major teermiear aesempti	of of EoT is described as following
Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK
Number of channels	79
Hardware Version	KH-16_BC86XX _VC04
Software Version	V1.0
Antenna Designation	PCB Antenna
Antenna Gain	OdBi
Power Supply	DC 5V
Note: The USB port only u	sed for power supply and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR Channel List

Frequency Band	Channel Number	Frequency		
Manager Cook Cook Cook Cook Cook Cook Cook Coo	0	2402MHz		
, CO	1 5 2	2403MHz		
The fill the state of the state	A PARTY OF THE PROPERTY OF THE PARTY OF THE			
® Alle Miles	38	2440 MHz		
2400~2483.5MHz	39	2441 MHz		
10000000000000000000000000000000000000	40	2442 MHz		
The compared @ ## The of Colonic Con't	26 LG			
GC Marie C	77	2479 MHz		
	78	2480 MHz		

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3. MEASUREMENT UNCERTAINTY

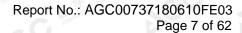
The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- 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

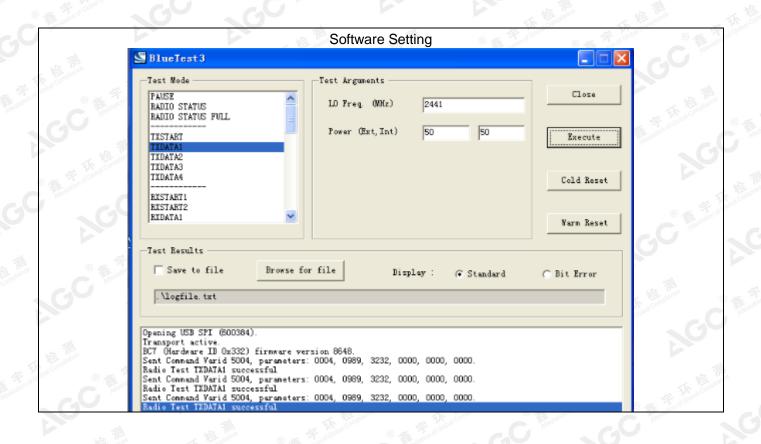
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION			
1 The Manual Completion	Low channel GFSK			
© 2 de 2	Middle channel GFSK			
3	High channel GFSK			
4	Low channel π /4-DQPSK			
5 T. 18.	Middle channel π /4-DQPSK			
© 16 00 00 00 00 00 00 00 00 00 00 00 00 00	High channel π /4-DQPSK			
7	Low channel 8DPSK			
8	Middle channel 8DPSK			
Figure 1 and	High channel 8DPSK			
10	BT Link with charging			
11	BT Link(Hopping mode)			

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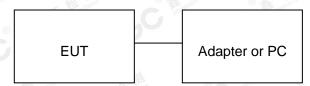


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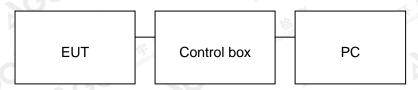
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
1 WIRELESS TRANSMITTER		MPOW	BH261A	EUT	
2	PC PC	APPLE	A1465	A.E	
3	Control box	CSR	USB_SPI_TOOLS	A.E	
4	Adapter	IPRO	NTR-S01	A.E	
5	USB Cable*2	N/A	1m unshielded	A.E	
6	AUX IN Cable*1	N/A	1m unshielded	A.E	
7	Mobile phone	HUAWEI	V9	A.E	
8	Speaker	HAIYI	A3901	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, 2018	Jun.19, 2019
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, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	-7111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The Compliance	Jun.20, 2018	Jun.19, 2019

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

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

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit					
(MHz)	Meters	μ V/m	dB(μV)/m				
0.009 ~ 0.490	300	2400/F(kHz)	2				
0.490 ~ 1.705	30	24000/F(kHz)	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 Marine Commission Co	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.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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

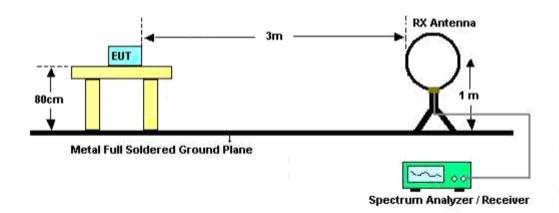
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz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

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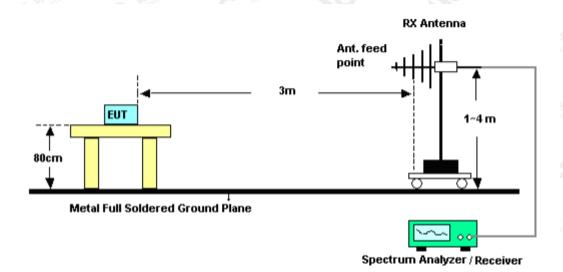


9.3. TEST SETUP

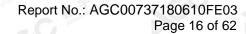
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

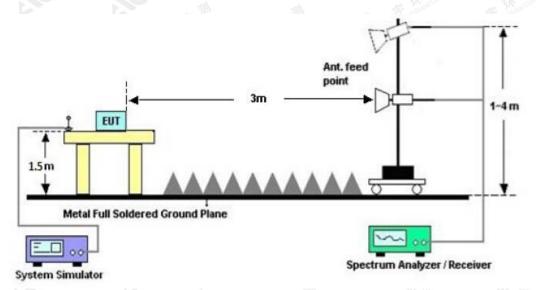


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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9.4. TEST RESULT

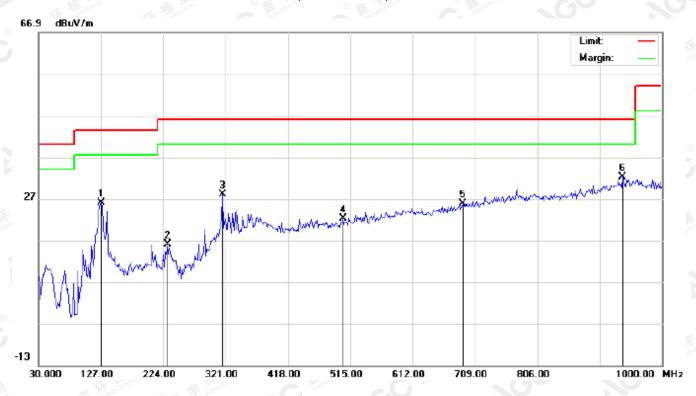
(Worst modulation: GFSK)

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	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		127.0000	16.80	9.13	25.93	43.50	-17.57	peak			
2		230.4667	7.19	8.89	16.08	46.00	-29.92	peak			
3		316.1500	11.46	16.49	27.95	46.00	-18.05	peak			
4		503.6833	0.91	21.23	22.14	46.00	-23.86	peak			
5		689.6000	0.96	24.93	25.89	46.00	-20.11	peak			
6	*	938.5667	2.57	29.68	32.25	46.00	-13.75	peak			

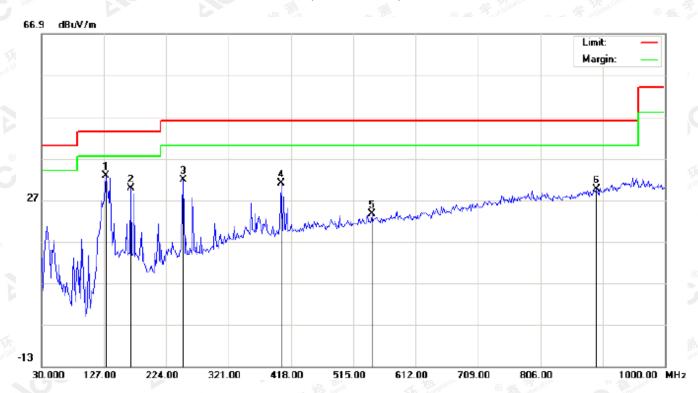
RESULT: PASS

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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
e l	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	130.2332	21.59	11.13	32.72	43.50	-10.78	peak			
2		169.0333	15.13	14.76	29.89	43.50	-13.61	peak			
3		249.8667	17.83	13.89	31.72	46.00	-14.28	peak			
4		403.4500	11.84	19.17	31.01	46.00	-14.99	peak			
5		544.1000	1.27	22.32	23.59	46.00	-22.41	peak			
6		893.3000	1.07	28.44	29.51	46.00	-16.49	peak			

RESULT: PASS

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

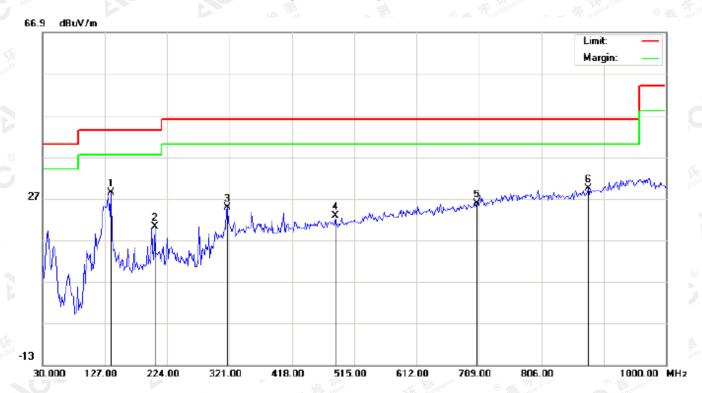
2. The "Factor" value can be calculated automatically by software of measurement system.

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



No	MI	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ę	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	136.7000	14.66	13.66	28.32	43.50	-15.18	peak			
2		204.6000	8.76	11.53	20.29	43.50	-23.21	peak			
3		317.7667	8.25	16.59	24.84	46.00	-21.16	peak			
4		485.9000	1.74	20.98	22.72	46.00	-23.28	peak			
5		705.7667	0.42	25.38	25.80	46.00	-20.20	peak			
6		878.7500	1.28	28.06	29.34	46.00	-16.66	peak			

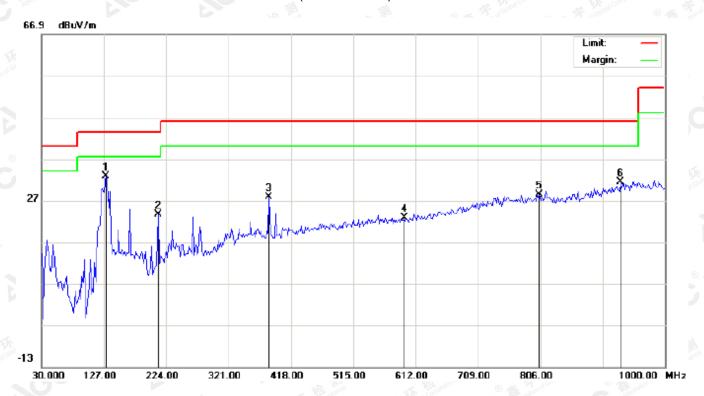
RESULT: PASS

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



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
d d		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
80	1	*	130.2332	21.60	11.13	32.73	43.50	-10.77	peak			
	2		211.0667	13.48	10.08	23.56	43.50	-19.94	peak			
	3		384.0500	8.76	18.96	27.72	46.00	-18.28	peak			
	4		594.2167	0.05	22.70	22.75	46.00	-23.25	peak			
	5		804.3832	1.11	27.32	28.43	46.00	-17.57	peak			
	6		930.4833	2.03	29.46	31.49	46.00	-14.51	peak			

RESULT: PASS

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

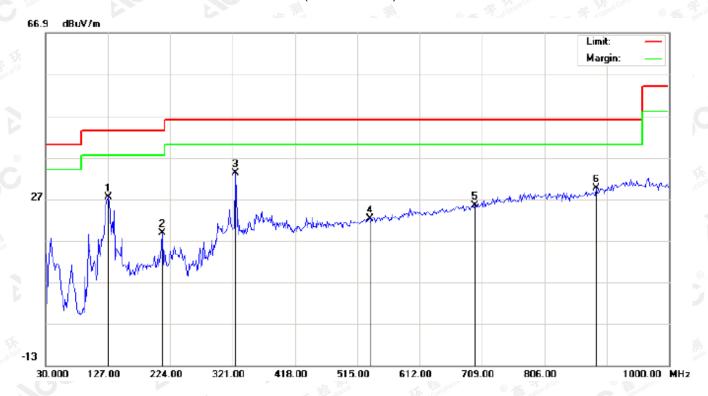
2. The "Factor" value can be calculated automatically by software of measurement system.

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



1	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
9		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
, F	1		127.0000	18.27	9.13	27.40	43.50	-16.10	peak			
Γ	2		211.0667	7.96	10.87	18.83	43.50	-24.67	peak			
Γ	3	*	325.8500	16.01	17.13	33.14	46.00	-12.86	peak			
Γ	4		534.4000	0.11	22.06	22.17	46.00	-23.83	peak			
	5		697.6833	0.33	25.16	25.49	46.00	-20.51	peak			
	6		886.8333	1.34	28.27	29.61	46.00	-16.39	peak			

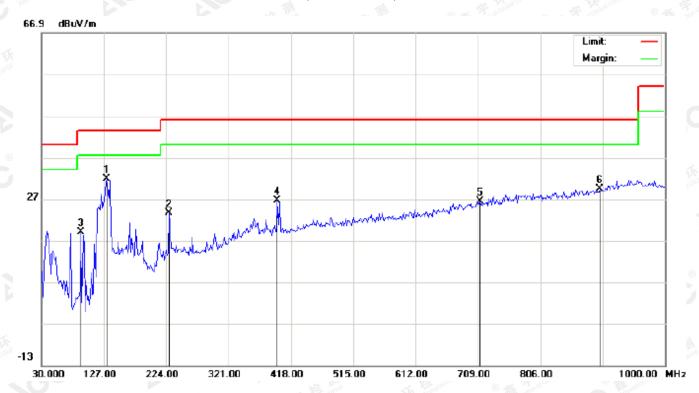
RESULT: PASS

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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
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	131.8500	20.03	11.80	31.83	43.50	-11.67	peak			
2		228.8500	11.84	11.83	23.67	46.00	-22.33	peak			
3		91.4333	14.86	4.16	19.02	43.50	-24.48	peak			
4		396.9833	7.65	19.05	26.70	46.00	-19.30	peak			
5		712.2333	0.89	25.54	26.43	46.00	-19.57	peak			
6		898.1500	0.85	28.56	29.41	46.00	-16.59	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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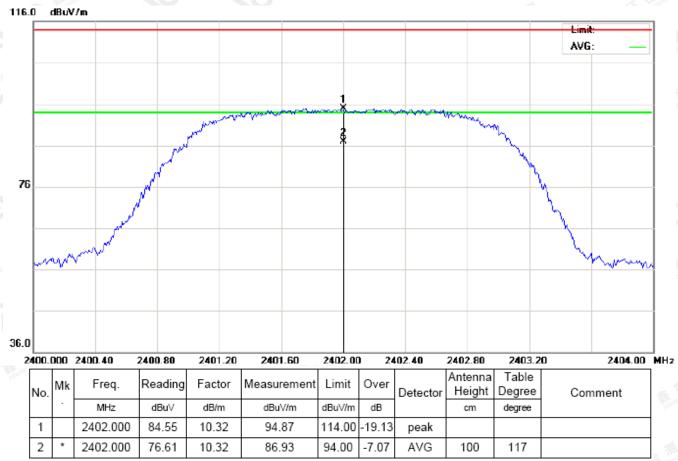
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RADIATED EMISSION ABOVE 1GHz

(Worst modulation: GFSK)

For Fundamental

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



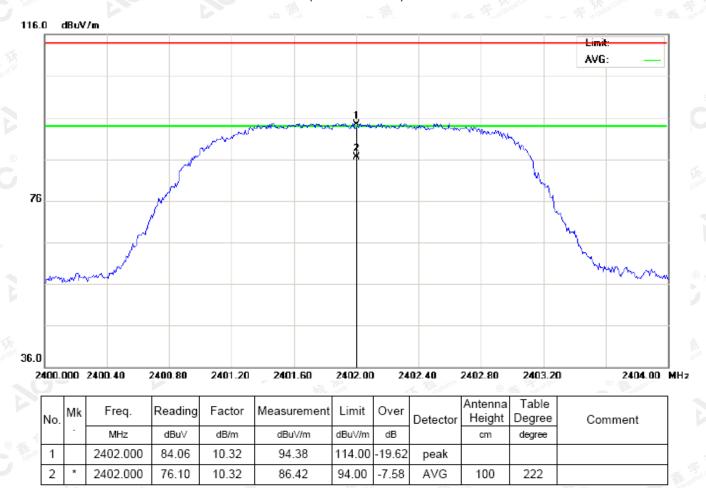
RESULT: PASS

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



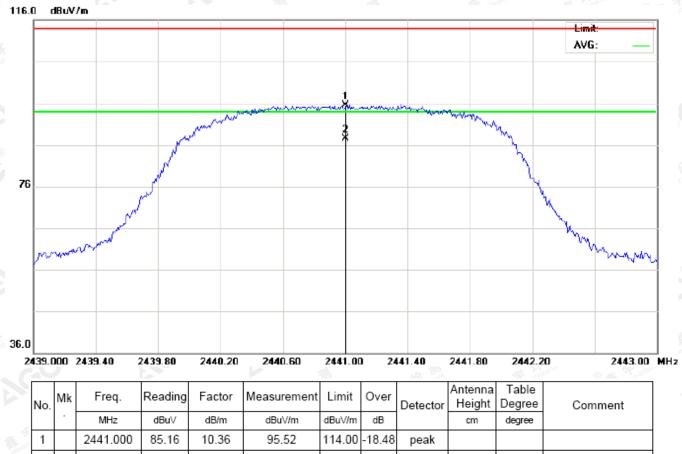
RESULT: PASS

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



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	
	1		2441.000	85.16	10.36	95.52	114.00	-18.48	peak			
	2	*	2441.000	77.17	10.36	87.53	94.00	-6.47	AVG	100	113	

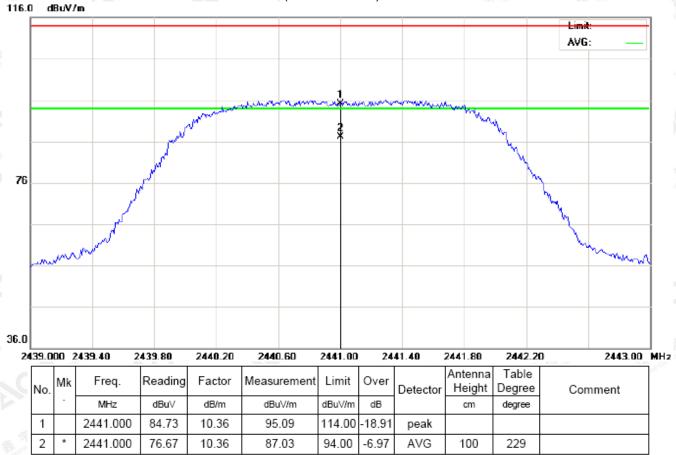
RESULT: PASS

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



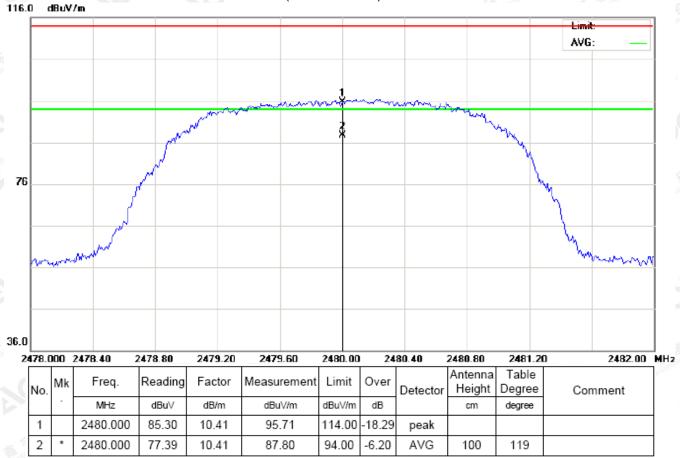
RESULT: PASS

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



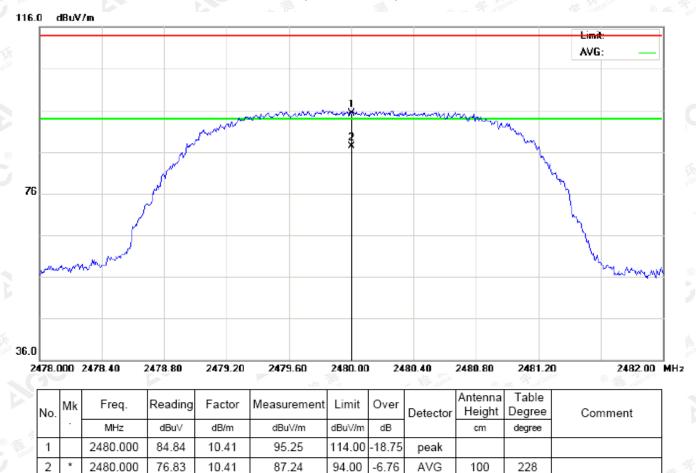
RESULT: PASS

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



RESULT: PASS

Note: 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	84.55	10.32	94.87	114	-19.13	Horizontal
2402	84.06	10.32	94.38	114	-19.62	Vertical
2441	85.16	10.36	85.52	114	-18.48	Horizontal
2441	84.73	10.36	95.09	114	-18.91	Vertical
2480	85.30	10.41	95.71	114	-18.29	Horizontal
2480	84.84	10.41	95.25	114	-18.75	Vertical

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.61	10.32	86.93	94	-7.07	Horizontal
2402	76.10	10.32	86.42	94	-7.58	Vertical
2441	77.17	10.36	87.53	94	-6.47	Horizontal
2441	76.67	10.36	87.03	94	-6.97	Vertical
2480	77.39	10.41	87.80	94	-6.20	Horizontal
2480	76.83	10.41	87.24	94	-6.76	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	84.07	10.32	94.39	114	-19.61	Horizontal
2402	83.59	10.32	93.91	114	-20.09	Vertical
2441	84.68	10.36	95.04	114	-18.96	Horizontal
2441	84.31	10.36	94.67	114	-19.33	Vertical
2480	84.90	10.41	95.31	114	-18.69	Horizontal
2480	84.40	10.41	94.81	114	-19.19	Vertical

Average value

Frequency (MHz)	Reading Level (dBuv)	Factor (dB/m)	Measurement (dBuv/m)	Limit (dBuv/m)	Over	Antenna Polarization
2402	75.68	10.32	86.00	94	-8.00	Vertical
2441	76.69	10.36	87.05	94	-6.95	Horizontal
2441	76.25	10.36	86.61	94	-7.39	Vertical
2480	76.91	10.41	87.32	94	-6.68	Horizontal
2480	76.35	10.41	86.76	94	-7.24	Vertical

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3Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	83.66	10.32	93.98	114	-20.02	Horizontal
2402	83.17	10.32	93.49	114	-20.51	Vertical
2441	84.20	10.36	94.56	114	-19.44	Horizontal
2441	83.82	10.36	94.18	114	-19.82	Vertical
2480	84.45	10.41	94.86	114	-19.14	Horizontal
2480	83.96	10.41	94.37	114	-19.63	Vertical

Average value

3						
Frequency	Reading Level (dBuv)	Factor (dB/m)	Measurement (dBuv/m)	Limit (dBuv/m)	Over	Antenna Polarization
(MHz)						
2402	75.73	10.32	86.05	94	-7.95	Horizontal
2402	75.21	10.32	85.53	94	-8.47	Vertical
2441	76.23	10.36	86.59	94	-7.41	Horizontal
2441	75.79	10.36	86.15	94	-7.85	Vertical
2480	76.50	10.41	86.91	94	-7.09	Horizontal
2480	75.89	10.41	86.30	94	-7.70	Vertical

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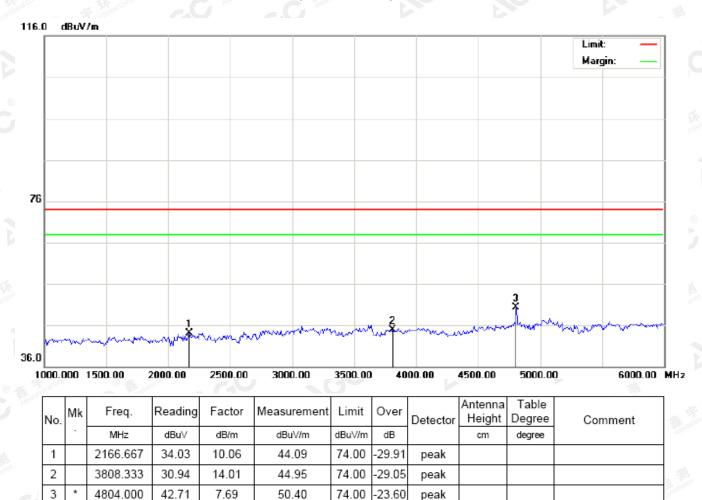


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(Worst modulation: GFSK)

For Harmonics

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



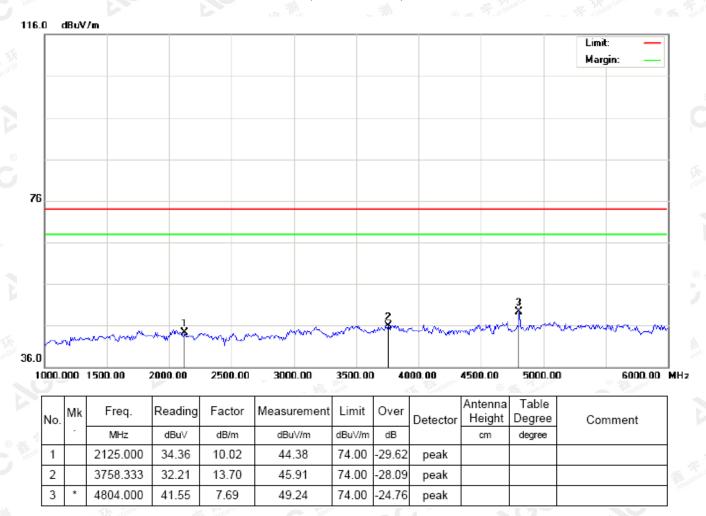
RESULT: PASS

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



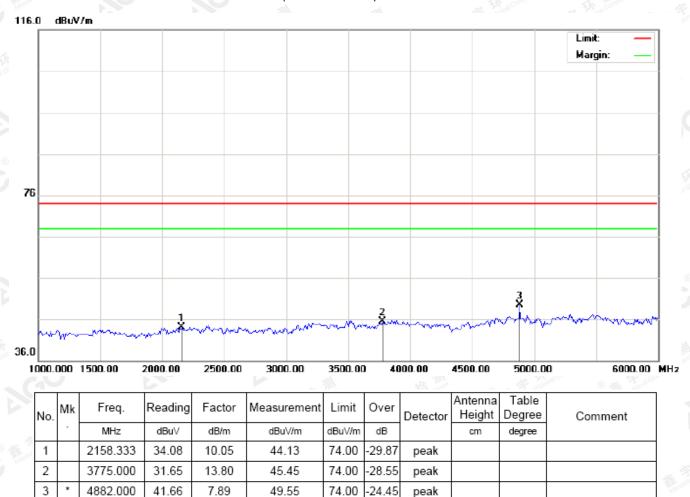
RESULT: PASS

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



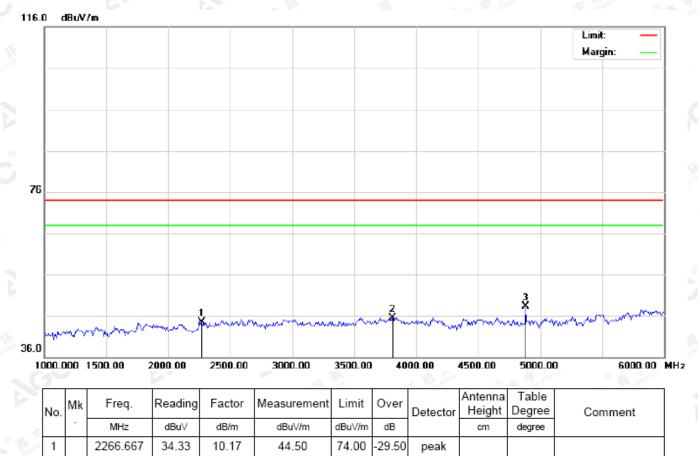
RESULT: PASS

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



74.00

74.00

-28.50

peak

peak

RESULT: PASS

2

3808.333

4882.000

31.49

40.39

14.01

7.89

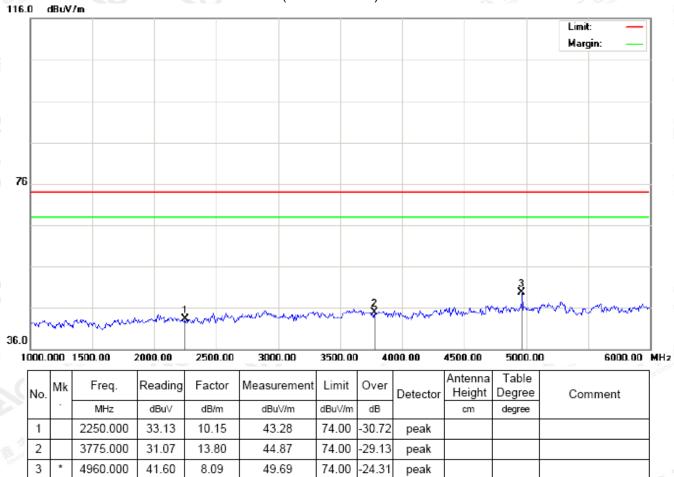
45.50

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



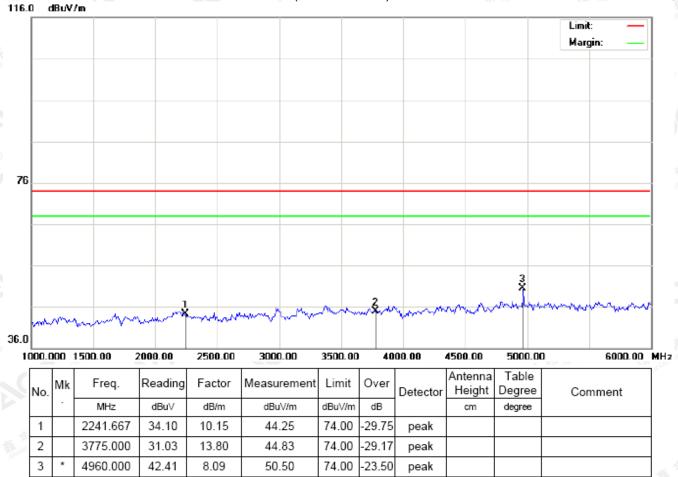
RESULT: PASS

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



RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

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

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

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10. BAND EDGE EMISSION

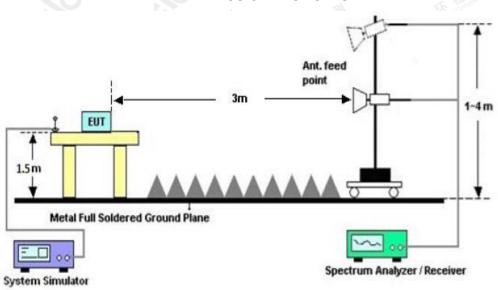
10.1. MEASUREMENT PROCEDURE

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

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

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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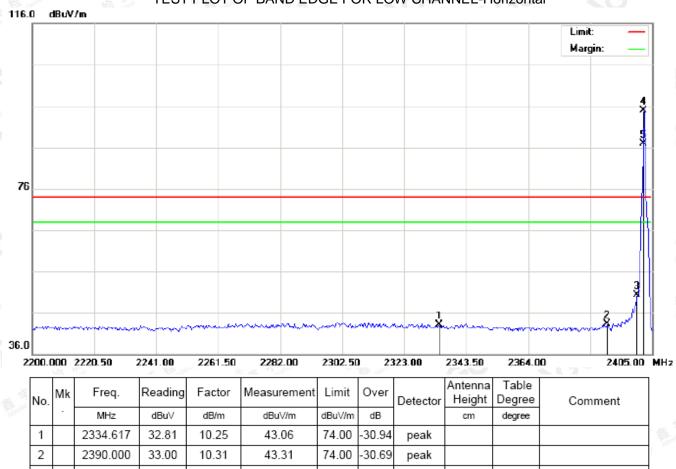


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10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



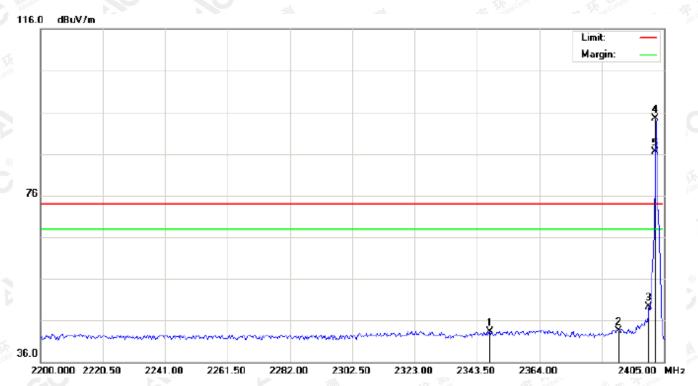
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Height	Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2334.617	32.81	10.25	43.06	74.00	-30.94	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	39.97	10.32	50.29	74.00	-23.71	peak			
4	*	2402.000	84.60	10.32	94.92	74.00	20.92	peak			
5	Х	2402.000	76.57	10.32	86.89	74.00	12.89	AVG	100	113	
		Lee	411		-2777.3		-7	. s. Ub		3/1 //0-	30.50

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



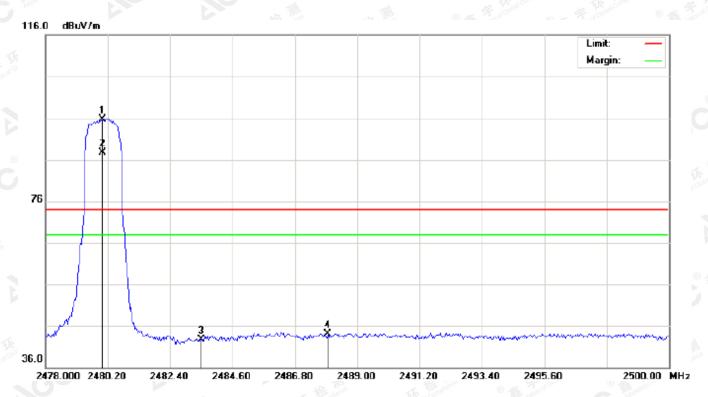
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2347.600	33.01	10.26	43.27	74.00	-30.73	peak			
2		2390.000	33.21	10.31	43.52	74.00	-30.48	peak			
3		2400.000	39.06	10.32	49.38	74.00	-24.62	peak			
4	*	2402.000	84.12	10.32	94.44	74.00	20.44	peak			
5	Х	2402.000	76.16	10.32	86.48	74.00	12.48	AVG	100	224	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



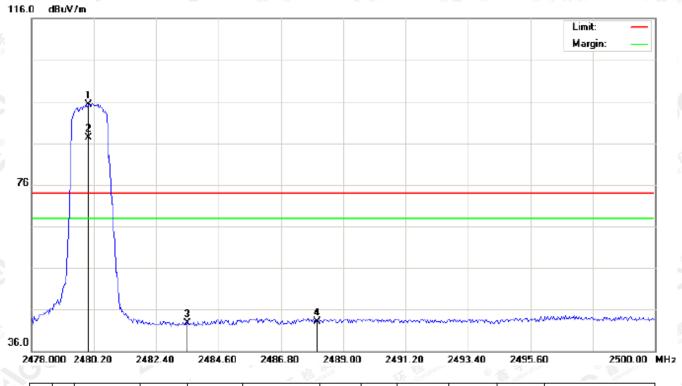
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ġ		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
318	1	*	2480.000	85.36	10.41	95.77	74.00	21.77	peak			
	2	Х	2480.000	77.34	10.41	87.75	74.00	13.75	AVG	100	115	
	3		2483.500	32.19	10.41	42.60	74.00	-31.40	peak			
	4		2487.973	33.63	10.42	44.05	74.00	-29.95	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
ġ		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
318	1	*	2480.000	84.89	10.41	95.30	74.00	21.30	peak			
	2	Х	2480.000	76.88	10.41	87.29	74.00	13.29	AVG	100	227	
	3		2483.500	32.26	10.41	42.67	74.00	-31.33	peak			
	4		2488.083	32.74	10.42	43.16	74.00	-30.84	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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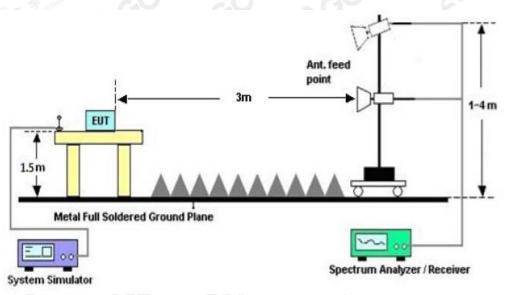
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11. 20DB BANDWIDTH

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

		VD2 " -6	The salls	-100	
BLUET	OOTH 1MBPS LIN	MITS AND MEASU	REMENT RESULT		
		Measure	ement Result		
Applicable Limits		5 "			
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The things of the state of the	Low Channel	0.920	1.103	PASS	
N/A	Middle Channel	0.927	1.073	PASS	
100	High Channel	0.931	1.079	PASS	

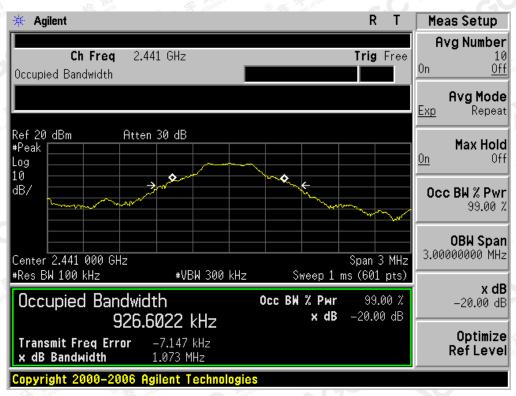
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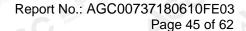
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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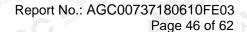




TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



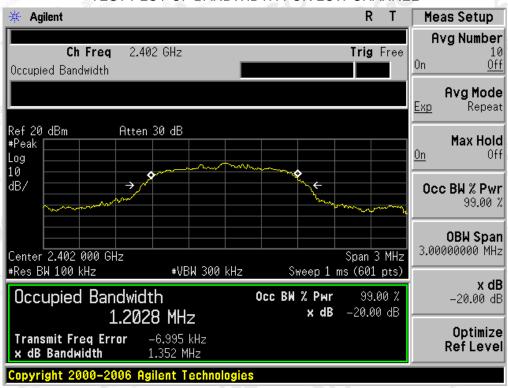
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BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
BESEIN	Measurement Result									
Applicable Limits		Doorle								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
The plants of th	Low Channel	1.203	1.352	PASS						
N/A	Middle Channel	1.211	1.380	PASS						
CO "	High Channel	1.218	1.358	PASS						

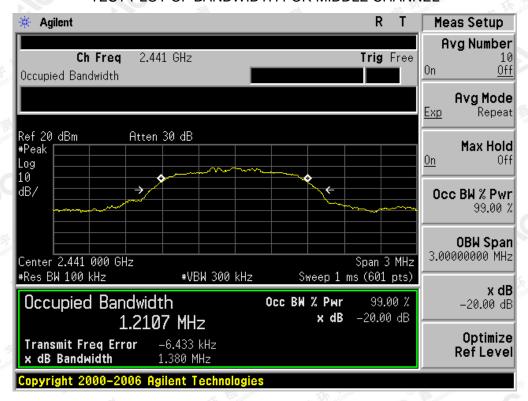
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



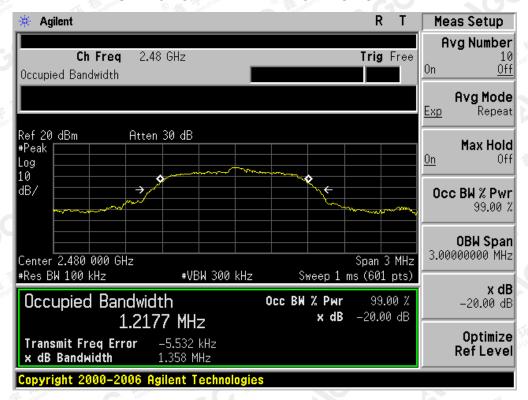
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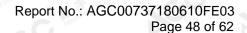
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



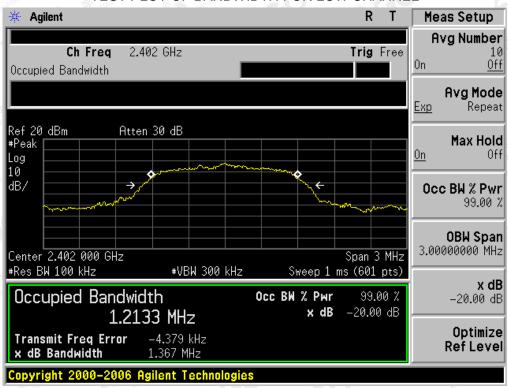
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BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT										
		Measure	ement Result							
Applicable Limits		Decult								
		Result								
下 整 测 不 整 测 1	Low Channel	1.213	1.367	PASS						
N/A	Middle Channel	1.214	1.370	PASS						
	High Channel	1.229	1.386	PASS						

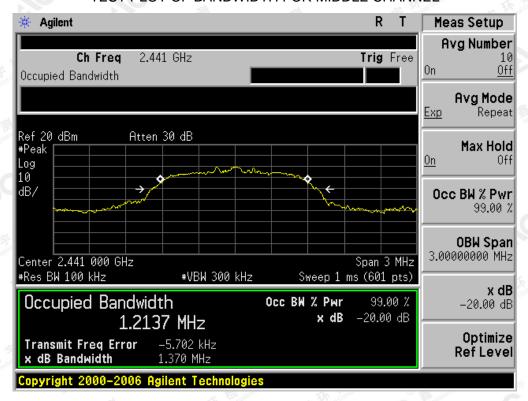
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



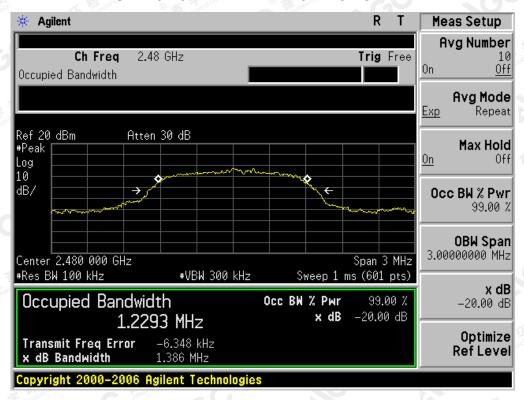
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

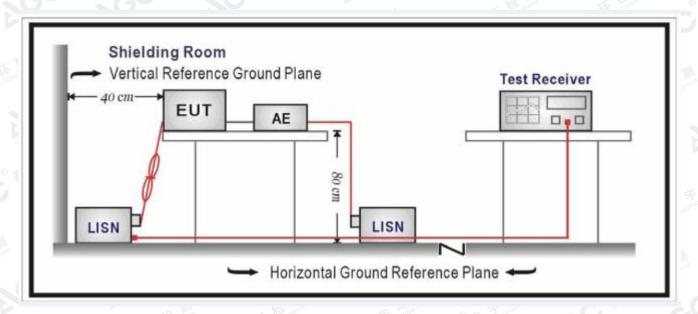
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	8 Age 15	A6						
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 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

- 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.

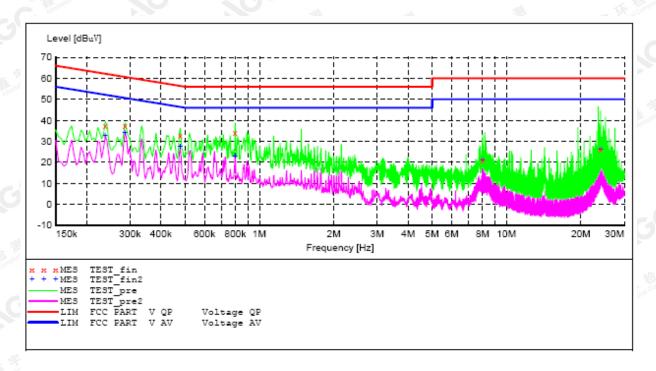
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.238000 0.286000 0.478000 0.798000 8.006000 24.010000	37.30 37.20 33.00 34.10 21.20 26.30	10.1 10.1 10.0 10.0 10.1	62 61 56 56 60	24.9 23.4 23.4 21.9 38.8 33.7	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

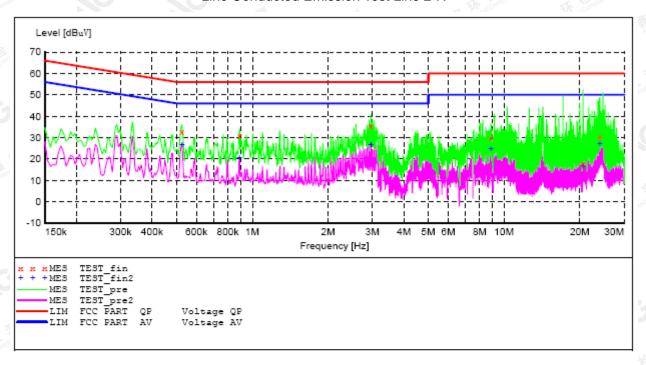
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.238000 0.286000 0.478000 0.798000	32.80 34.30 27.60 22.90	10.1 10.1 10.0 10.0	52 51 46 46	19.4 16.3 18.8 23.1	AV AV AV	L1 L1 L1 L1	FLO FLO FLO
7.990000 24.002000	21.10 26.40	10.1 10.2	50 50	28.9 23.6	AV AV	L1 L1	FLO FLO

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Line Conducted Emission Test Line 2-N



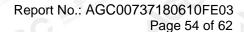
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	32.90	9.9	56	23.1	OP	N	FLO
0.890000	31.00	10.1	56	25.0	QP	N	FLO
2.958000	35.70	9.9	56	20.3	QP	N	FLO
8.874000	29.80	10.3	60	30.2	QP	N	FLO
20.574000	17.80	9.5	60	42.2	QP	N	FLO
23.994000	30.50	10.2	60	29.5	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.526000	26.70	9.9	46	19.3	AV	N	FLO
0.890000	20.80	10.1	46	25.2	AV	N	FLO
2.958000	26.50	9.9	46	19.5	AV	N	FLO
8.874000	24.70	10.3	50	25.3	AV	N	FLO
20.566000	17.00	9.5	50	33.0	AV	N	FLO
23.998000	27.10	10.2	50	22.9	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



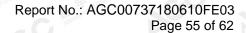
FCC RADIATED EMISSION TEST SETUP



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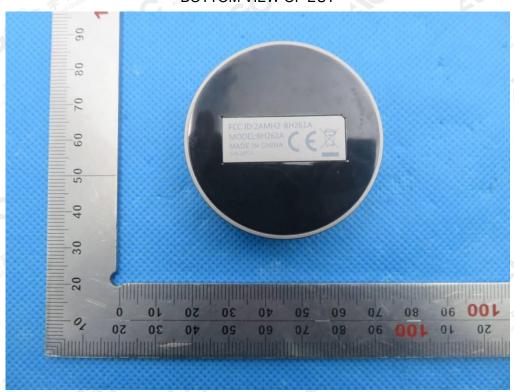


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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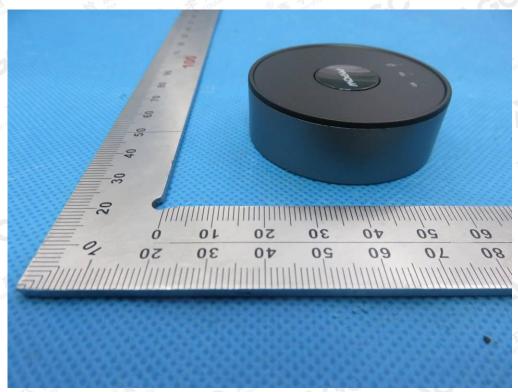
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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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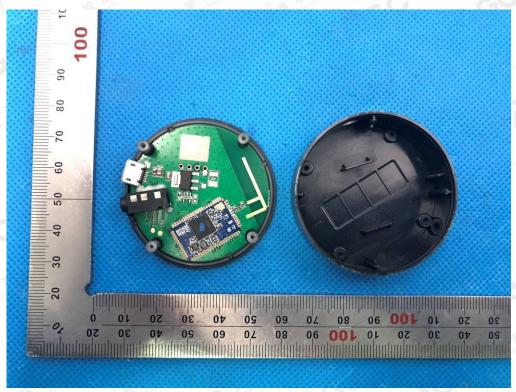
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VIEW OF EUT (PORT)



OPEN VIEW OF EUT



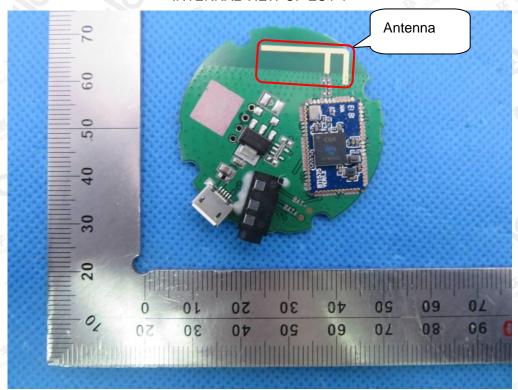
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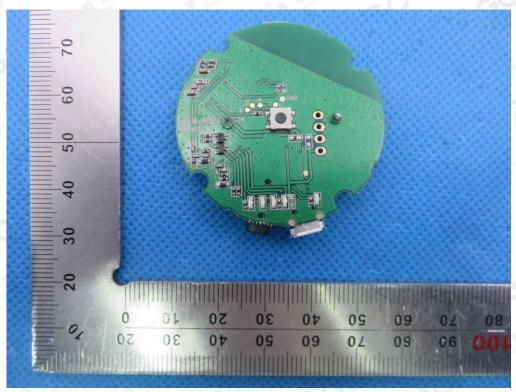
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INTERNAL VIEW OF EUT-1



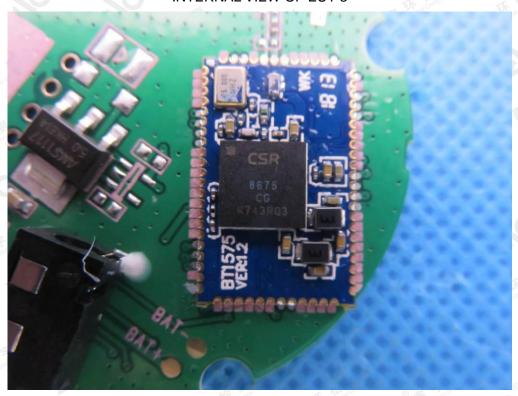
INTERNAL VIEW OF EUT-2



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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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