

TEST Report

Applicant:	Shenzhen JinYangHuiChuang Technology Limited
Address of Applicant:	#1301, ShenXinTaifeng Building,Qianjin 1st Road No 86, Baoan District, Shenzhen, Guangdong, China
Manufacturer :	Shenzhen JinYangHuiChuang Technology Limited
Address of Manufacturer :	#1301, ShenXinTaifeng Building,Qianjin 1st Road No 86, Baoan District, Shenzhen, Guangdong, China
Equipment Under Test (El	JT)
Product Name:	P5 Phantom controller
Model No.:	PHTM
Series model:	N/A
Trade Mark:	HEXGAMING
FCC ID:	2A3BG-PHTM
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	Mar.16,2023
Date of Test:	Mar.16,2023~Mar.22,2023
Date of report issued:	Mar.22,2023
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.



1. Version

Version No.	Date	Description
00	Mar.22,2023	Original

Tested/ Prepared By

Ervin Xu Date:

Mar.22,2023

Project Engineer

Check By:

Bruce Zhu Date:

Mar.22,2023

Reviewer

Approved By :

Kein Yang

Date:

Mar.22,2023

Authorized Signature

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3. Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.45 dB	(1)
Radiated Emission	1~6GHz	3.54 dB	(1)
Radiated Emission	6~40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.66 dB	(1)
Note (1): The measurement unce	rtainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



4. General Information

4.1. General Description of EUT

Product Name:	P5 Phantom controller
Model No.:	PHTM
Series model:	N/A
Test sample(s) ID:	HTT202303321-1(Engineer sample) HTT202303321-2(Normal sample)
Operation frequency	2402~2480 MHz
Number of Channels	40
Modulation Type	GFSK
Channel separation	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC 3.65V Form Battery and DC 5V From External Circuit



Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



4.2. Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

4.3. Description of Support Units

None.

4.4. Deviation from Standards

None.

4.5. Abnormalities from Standard Conditions

None.

4.6. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

4.7. Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23595200 Fax: 0755-23595201

4.8. Additional Instructions

Test Software	Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode		
Power level setup	Default		



Inventory Cal.Date Cal.Due date Item Model No. **Test Equipment** Manufacturer No. (mm-dd-yy) (mm-dd-yy) 3m Semi- Anechoic Shenzhen C.R.T 9*6*6 HTT-E028 Aug. 09 2024 1 Aug. 10 2020 technology co., LTD Chamber Shenzhen C.R.T 2 Control Room 4.8*3.5*3.0 HTT-E030 Aug. 10 2020 Aug. 09 2024 technology co., LTD 3 **EMI Test Receiver** Rohde&Schwar ESCI7 HTT-E022 May 23 2022 May 22 2023 Rohde&Schwar 4 FSP HTT-E037 May 23 2022 May 22 2023 Spectrum Analyzer 5 Coaxial Cable ZDecl ZT26-NJ-NJ-0.6M HTT-E018 May 23 2022 May 22 2023 6 **Coaxial Cable** ZDecl ZT26-NJ-SMAJ-2M HTT-E019 May 23 2022 May 22 2023 7 Coaxial Cable ZDecl ZT26-NJ-SMAJ-0.6M HTT-E020 May 23 2022 May 22 2023 8 Coaxial Cable ZDecl ZT26-NJ-SMAJ-8.5M HTT-E021 May 23 2022 May 22 2023 Composite logarithmic 9 Schwarzbeck VULB 9168 HTT-E017 May 23 2022 May 22 2023 antenna 10 Schwarzbeck May 23 2022 May 22 2023 Horn Antenna BBHA9120D HTT-E016 11 Loop Antenna Zhinan ZN30900C HTT-E039 May 23 2022 May 22 2023 12 OBH100400 HTT-E040 Horn Antenna Beijing Hangwei Dayang May 23 2022 May 22 2023 low frequency 13 Sonoma Instrument 310 HTT-E015 May 23 2022 May 22 2023 Amplifier high-frequency 14 HP 8449B HTT-E014 May 23 2022 May 22 2023 Amplifier Variable frequency power Shenzhen Anbiao 15 ANB-10VA HTT-082 May 23 2022 May 22 2023 Instrument Co., Ltd supply 16 **EMI Test Receiver** ESCS30 May 23 2022 May 22 2023 Rohde & Schwarz HTT-E004 17 Artificial Mains Rohde & Schwarz ESH3-Z5 HTT-E006 May 23 2022 May 22 2023 18 HTT-E038 Artificial Mains Rohde & Schwarz ENV-216 May 23 2022 May 22 2023 19 Cable Line Robinson Z302S-NJ-BNCJ-1.5M HTT-E001 May 23 2022 May 22 2023 20 Attenuator Robinson 6810.17A HTT-E007 May 23 2022 May 22 2023 Variable frequency power Shenzhen Yanghong YF-650 (5KVA) 21 HTT-E032 May 23 2022 May 22 2023 Electric Co., Ltd supply Shenzhen C.R.T 22 Control Room 8*4*3.5 HTT-E029 May 23 2022 May 22 2023 technology co., LTD 23 DC power supply Agilent E3632A HTT-E023 May 23 2022 May 22 2023 24 N9020A HTT-E024 May 23 2022 May 22 2023 EMI Test Receiver Agilent 25 Agilent N5181A HTT-E025 May 23 2022 May 22 2023 Analog signal generator 26 Vector signal generator Agilent N5182A HTT-E026 May 23 2022 May 22 2023 27 U2021XA HTT-E027 Power sensor Keysight May 23 2022 May 22 2023 emperature and humidity Shenzhen Anbiao 28 TH10R HTT-074 May 23 2022 May 22 2023 Instrument Co., Ltd meter Radiated Emission Test 29 Farad EZ-EMC N/A N/A N/A Software Conducted Emission 30 Farad EZ-EMC N/A N/A N/A Test Software 31 **RF** Test Software panshanrf TST N/A N/A N/A

5. Test Instruments list

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6. Test results and Measurement Data

6.1. Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:	Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
Test setup:						
Test procedure:	 * Decreases with the logarithm of the frequency. Reference Plane LISN 40cm 80cm Filter AC power Equipment E.U.T EMI Receiver Remark: EUT: Equipment Under Test LISN Line impedance Stabilization Network Test table/Insulation plane 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details	5	1			
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.: 1012mbar			
	AC 120V, 60Hz					
Test voltage:	AC 120V, 60Hz					

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.



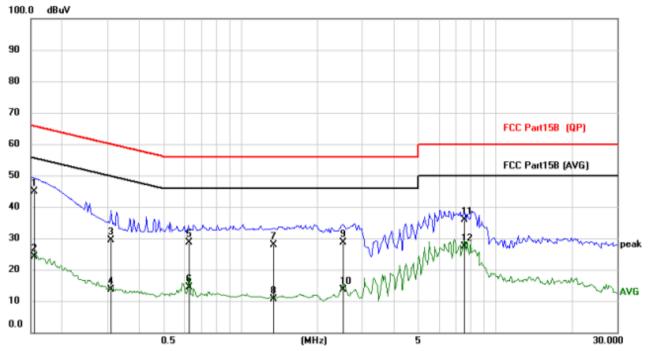
Line: 100.0 dBuV 90 80 70 FCC Part15B (QP) 60 FCC Part15B (AVG) 50 40 X 30 5 ş peak 12 www 20 jo. AVG 10 0.0 0.5 (MHz) 5 30.000

Measurement data:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 *	0.1578	34.13	10.38	44.51	65.58	-21.07	QP
2	0.1578	12.56	10.38	22.94	55.58	-32.64	AVG
3	0.2826	20.66	10.41	31.07	60.74	-29.67	QP
4	0.2826	4.09	10.41	14.50	50.74	-36.24	AVG
5	0.6297	17.70	10.64	28.34	56.00	-27.66	QP
6	0.6297	0.86	10.64	11.50	46.00	-34.50	AVG
7	1.3122	17.28	10.88	28.16	56.00	-27.84	QP
8	1.3122	-0.52	10.88	10.36	46.00	-35.64	AVG
9	2.5266	16.89	10.83	27.72	56.00	-28.28	QP
10	2.5266	1.60	10.83	12.43	46.00	-33.57	AVG
11	7.2903	20.16	11.44	31.60	60.00	-28.40	QP
12	7.2903	10.21	11.44	21.65	50.00	-28.35	AVG



Neutral:



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 *	0.1556	34.62	10.26	44.88	65.70	-20.82	QP
2	0.1556	13.93	10.26	24.19	55.70	-31.51	AVG
3	0.3099	19.16	10.25	29.41	59.97	-30.56	QP
4	0.3099	3.37	10.25	13.62	49.97	-36.35	AVG
5	0.6297	18.18	10.54	28.72	56.00	-27.28	QP
6	0.6297	3.87	10.54	14.41	46.00	-31.59	AVG
7	1.3473	17.12	10.81	27.93	56.00	-28.07	QP
8	1.3473	-0.26	10.81	10.55	46.00	-35.45	AVG
9	2.5266	17.83	10.83	28.66	56.00	-27.34	QP
10	2.5266	2.73	10.83	13.56	46.00	-32.44	AVG
11	7.5396	24.90	11.04	35.94	60.00	-24.06	QP
12	7.5396	16.27	11.04	27.31	50.00	-22.69	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level =Receiver Read level + LISN Factor + Cable Los

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FCC Part15 C Section 15.247 (b)(3) **Test Requirement:** ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02 Test Method: 30dBm Limit: Power Meter Test setup: E.U.T Non-Conducted Table Ground Reference Plane **Test Instruments:** Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Test results: Pass Test environment: Temp.: 25 °C Humid.: 52% Press.: 1012mbar

6.2. Conducted Output Power

Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result	
Lowest	1.03			
Middle	0.41	30.00	Pass	
Highest	-1.03			



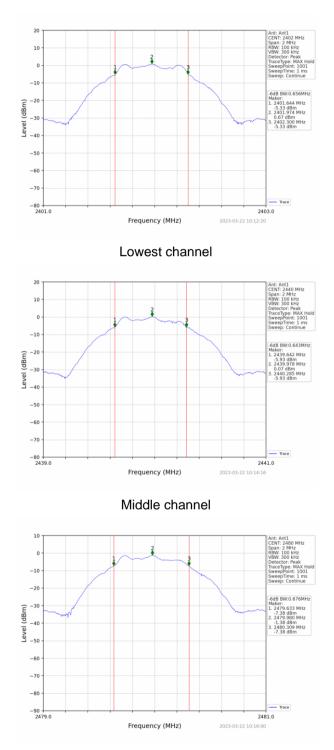
6.3. Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)								
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02								
Limit:	>500KHz								
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test results:	Pass								
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar								

Measurement Data

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result	
Lowest	0.656		Pass	
Middle	0.643	>500		
Highest	0.676			





Test plot as follows:

Highest channel



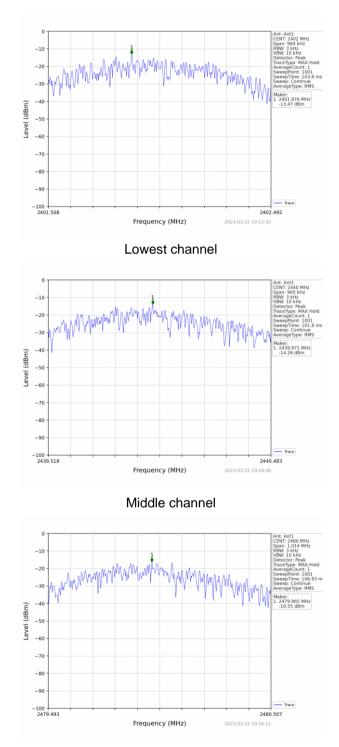
Test Requirement:	FCC Part15	FCC Part15 C Section 15.247 (e)							
Test Method:	ANSI C63.1	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	8dBm/3kHz	8dBm/3kHz							
Test setup:	Spo								
Test Instruments:	Refer to sec	ction 6.0 for c	letails						
Test mode:	Refer to sec	ction 5.2 for c	letails						
Test results:	Pass								
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar			

6.4. Power Spectral Density

Measurement Data

Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result		
Lowest	-13.47				
Middle	-14.26	8.00	Pass		
Highest	-16.55				





Test plot as follows:

Highest channel

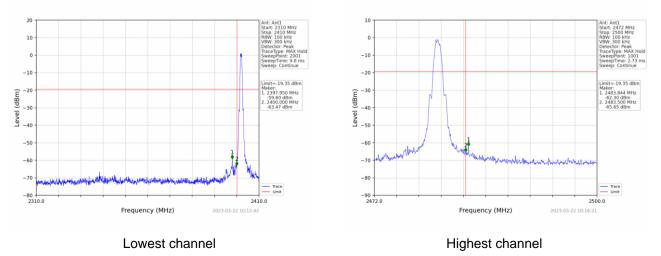


6.5. Band edges

6.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)								
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02								
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.								
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test results:	Pass								
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar								

Test plot as follows:



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Test Requirement: FCC Part15 C Section 15.209 and 15.205 Test Method: ANSI C63.10:2013 All of the restrict bands were tested, only the worst band's (2310MHz to Test Frequency Range: 2500MHz) data was showed. Measurement Distance: 3m Test site: Receiver setup: Detector RBW VBW Value Frequency 1MHz 3MHz Peak Peak Above 1GHz RMS 1MHz 3MHz Average Limit: Limit (dBuV/m @3m) Value Frequency 54.00 Average Above 1GHz 74.00 Peak Test setup: < 3m > Test Antenna+ < 1m ... 4m > FUT. Tum Table+ -150cm SI Preamplifier Receiver. 1. The EUT was placed on the top of a rotating table 1.5 meters above Test Procedure: the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Test results: Pass Test environment: Temp.: 25 °C Humid.: 52% Press.: 1012mbar

6.5.2 Radiated Emission Method

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Measurement Data

Operation Mode: GFSK TX Low channel(2402MHz)

Horizontal (Worst case)

		/ .		_				
Fraguenau	Mater Deading	Antenna		Preamp		Linsite	Morain	
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	Detector
				(15)				Туре
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2390	58.99	26.20	5.72	33.30	57.61	74	-16.39	peak
	40.05				44.07	- 4	0.00	
2390	46.05	26.20	5.72	33.30	44.67	54	-9.33	AVG

Vertical:

Frequency	Meter Reading	Antenna	Cable Laga	Preamp	Emission Level	Limits	Margin	Detector
. ,	, v	Factor	Cable Loss	Factor				Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2390	59.07	26.20	5.72	33.30	57.69	74	-16.31	peak
2390	45.39	26.20	5.72	33.30	44.01	54	-9.99	AVG

Operation Mode: GFSK TX High channel (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	55.09	28.60	6.97	32.70	57.96	74	-16.04	peak
2483.5	41.96	28.60	6.97	32.70	44.83	54	-9.17	AVG

Vertical:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.13	28.60	6.97	32.70	60.00	74	-14.00	peak
2483.5	42.96	28.60	6.97	32.70	45.83	54	-8.17	AVG

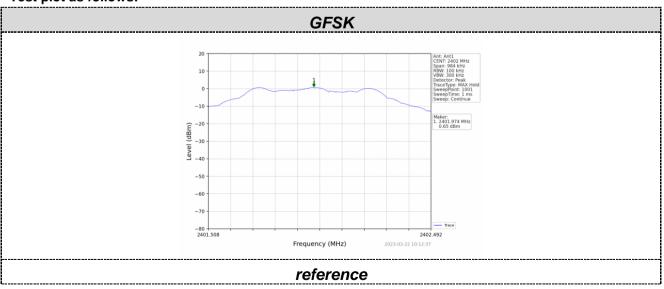


6.6. Spurious Emission

6.6.1 Conducted Emission Method

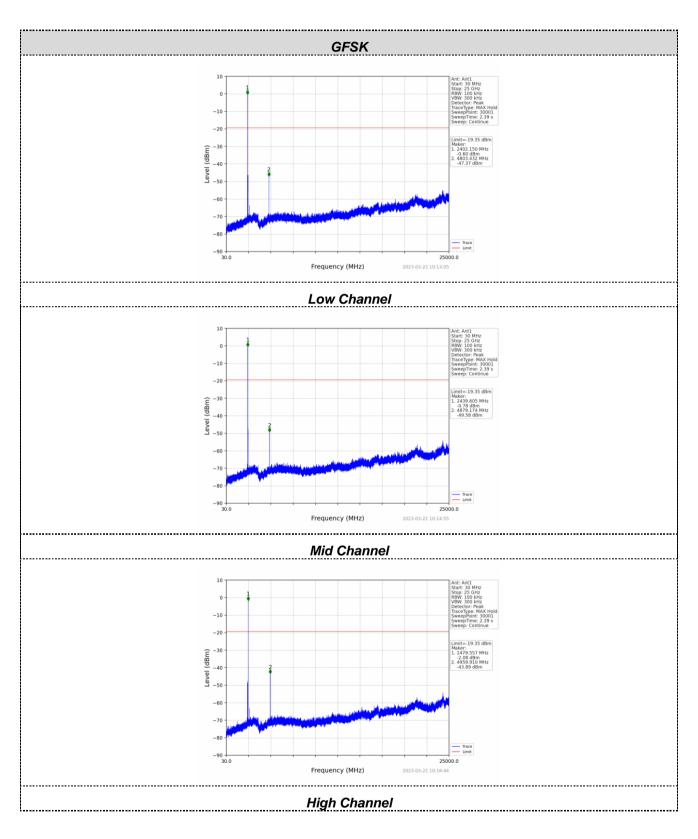
Test Requirement:	FCC Part15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar							

Test plot as follows:



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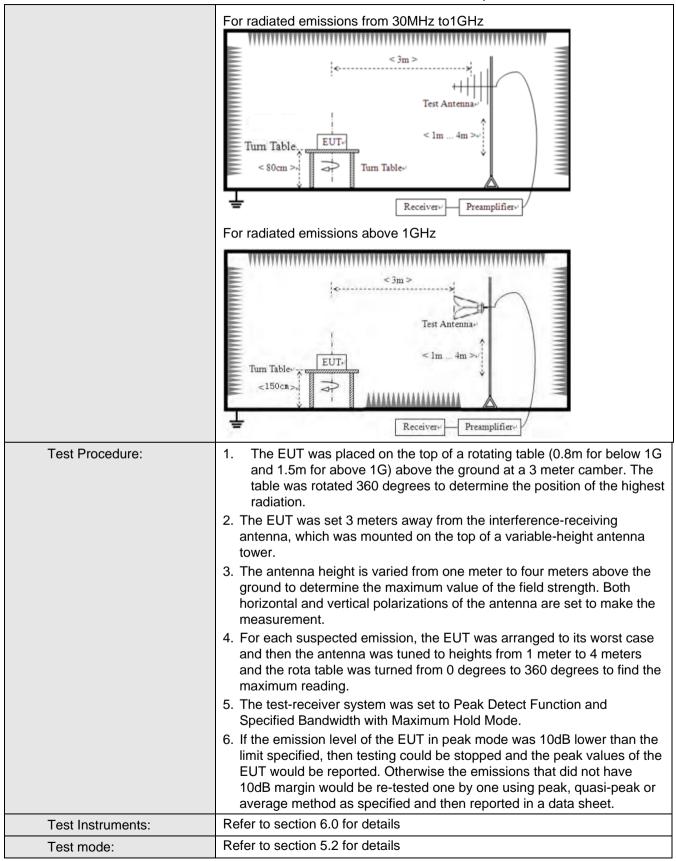
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6.6.2 Radiated Emission Metho								
Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	nce: (3m					
Receiver setup:	Frequency	D	Detector	RB\	Ν	VBW	Value	
	9KHz-150KHz	Qı	iasi-peak	200	Ηz	600Hz	z Quasi-peak	
	150KHz-30MHz	Qı	iasi-peak	9K⊦	łz	30KH:	z Quasi-peak	
	30MHz-1GHz	Qı	iasi-peak	120K	Hz	300KH	Iz Quasi-peak	
	Above 1GHz		Peak	1M⊦	Ηz	3MHz	z Peak	
	Above TOTIZ		Peak	1MF	Ηz	10Hz	Average	
Limit:	Frequency		Limit (u∖	//m)	V	alue	Measurement Distance	
	0.009MHz-0.490M	Hz	2400/F(k	(Hz)		QP	300m	
	0.490MHz-1.705M	Hz	24000/F(KHz)		QP	30m	
	1.705MHz-30MH	Z	30		QP		30m	
	30MHz-88MHz		100		QP			
	88MHz-216MHz		150		QP			
	216MHz-960MH	Z	200		QP		3m	
	960MHz-1GHz		500		QP		0111	
	Above 1GHz		500		Average			
	Above Tonz		5000		F	Peak		
Test setup:	Above 1GHz							

6.6.2 Radiated Emission Method





1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23595200 Fax: 0755-23595201



Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Measurement data:

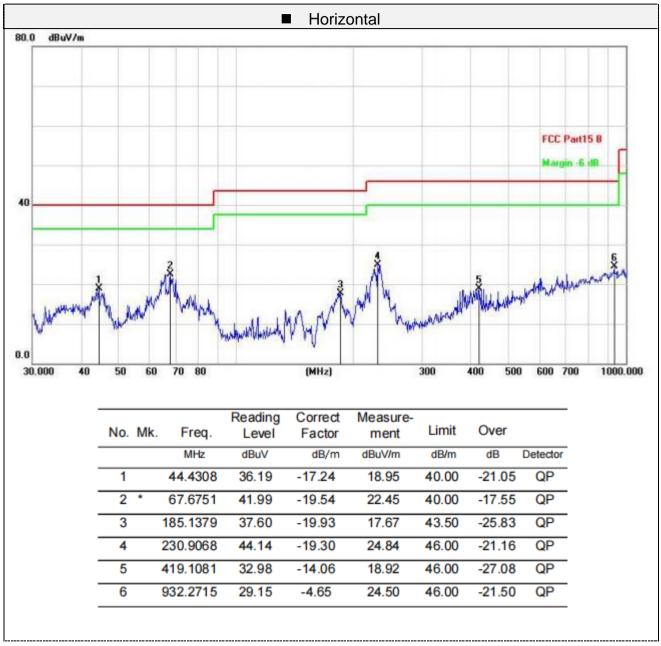
Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9kHz~30MHz

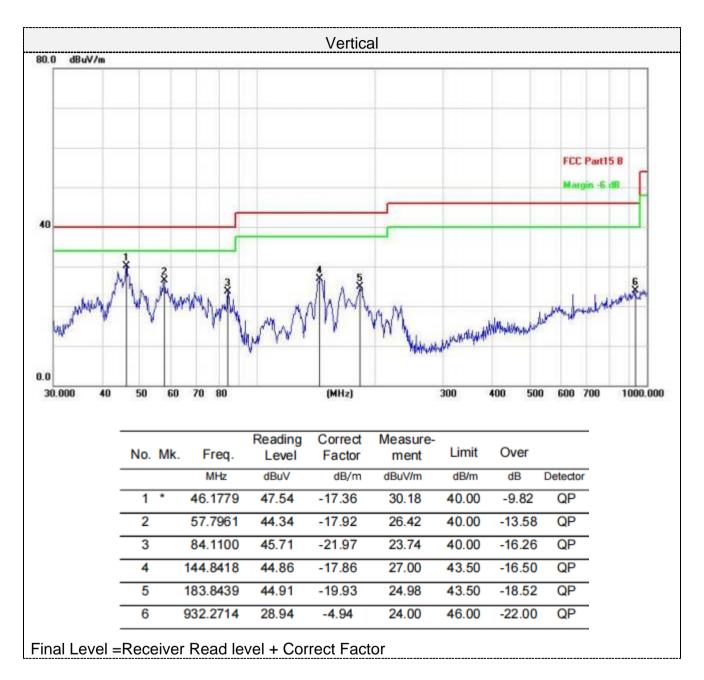
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.





Below 1GHz







Above 1-25GHz

CH Low (2402MHz)

Horizontal:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	(ubµv)	(ub/iii)	(ub)	(UD)		(ubµv/m)		туре
4804	51.39	31.40	8.18	32.10	58.87	74.00	-15.13	peak
4804	36.47	31.40	8.18	32.10	43.95	54.00	-10.05	AVG
7206	44.95	35.80	10.83	31.40	60.18	74.00	-13.82	peak
7206	28.76	35.80	10.83	31.40	43.99	54.00	-10.01	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

VOIT								
		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detecto
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804	52.33	31.40	8.18	32.10	59.81	74.00	-14.19	peak
4804	36.41	31.40	8.18	32.10	43.89	54.00	-10.11	AVG
7206	42.86	35.80	10.83	31.40	58.09	74.00	-15.91	peak
1200	42.00	00.00	10.00	01.40	00.00	74.00	10.01	pour
7206	28.69	35.80	10.83	31.40	43.92	54.00	-10.08	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.



CH Middle (2440MHz)

Ho	rizontal:							
		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4880	51.06	31.40	9.17	32.10	59.53	74.00	-14.47	peak
4880	36.75	31.40	9.17	32.10	45.22	54.00	-8.78	AVG
7320	44.97	35.80	10.83	31.40	60.20	74.00	-13.80	peak
7320	29.32	35.80	10.83	31.40	44.55	54.00	-9.45	AVG

Vertical:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	(ubµv)	(ub/iii)	(ub)	(ub)	(ubµv/iii)	(ubµv/iii)		Туре
4880	50.24	31.40	9.17	32.10	58.71	74.00	-15.29	peak
4880	36.57	31.40	9.17	32.10	45.04	54.00	-8.96	AVG
7320	44.59	35.80	10.83	31.40	59.82	74.00	-14.18	peak
7320	29.11	35.80	10.83	31.40	44.34	54.00	-9.66	AVG



CH High (2480MHz)

Horizontal:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
	Ŭ						Ŭ	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960	50.28	31.40	9.17	32.10	58.75	74.00	-15.25	peak
4960	36.77	31.40	9.17	32.10	45.24	54.00	-8.76	AVG
7440	44.52	35.80	10.83	31.40	59.75	74.00	-14.25	peak
7440	29.71	35.80	10.83	31.40	44.94	54.00	-9.06	AVG
Remark: Facto	or = Antenna Fac	tor + Cable Los	s – Pre-amplifier	·				

Vertical:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960	52.06	31.40	9.17	32.10	60.53	74.00	-13.47	peak
4960	36.78	31.40	9.17	32.10	45.25	54.00	-8.75	AVG
7440	43.50	35.80	10.83	31.40	58.73	74.00	-15.27	peak
7440	28.47	35.80	10.83	31.40	43.70	54.00	-10.30	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

(1) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(2) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.



7. Test Setup Photo

Reference to the **appendix I** for details.

8. EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----