

TEST Report

Applicant:	Guangdong Baixiang Environmental Technology Co., Ltd		
Address of Applicant:	Building H, No. 13, Rd Tongfu, Renhe Town, Baiyun Dist, Guangzhou, Guangdong, China		
Manufacturer :	Guangdong Baixiang Environmental Technology Co., Ltd		
Address of Manufacturer :	Building H, No. 13, Rd Tongfu, Renhe Town, Baiyun Dist, Guangzhou, Guangdong, China		
Equipment Under Test (El	JT)		
Product Name:	X60 Bluetooth Scent Diffuser		
Model No.:	X60		
Series model:	X60-pro,X61,X65,X66,X68,X69,X70,X80,X90		
Trade Mark:	BXAROMA		
FCC ID:	2BA6L-X60		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of sample receipt:	Apr.28,2023		
Date of Test:	Apr.28,2023~May.08,2023		
Date of report issued:	May.08,2023		
Test Result :	PASS *		

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



1. Version

Version No.	Date	Description
00	May.08,2023	Original

Tested/ Prepared By

Heber He Date:

May.08,2023

Project Engineer

Check By:

Bruce Zhu Date:

May.08,2023

Reviewer

Approved By :

Kein Yang

Date:

May.08,2023

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 unco	ertainty 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:	X60 Bluetooth Scent Diffuser
Model No.:	X60
Series model:	X60-pro,X61,X65,X66,X68,X69,X70,X80,X90
Test sample(s) ID:	HTT202304418-1(Engineer sample) HTT202304418-2(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 5.0V



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	Col Doto	Cal Dua data	
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	Shenzhen C.R.T technology co., LTD	9*6*6	HTT-E028	Aug. 10 2020	Aug. 09 2024	
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2020	Aug. 09 2024	
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	May 23 2022	May 22 2023	
4	Spectrum Analyzer	Rohde&Schwar	FSP			May 22 2023	
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		ZDecl	ZT26-NJ-SMAJ-8.5M		May 23 2022	May 22 2023	
9	Coaxial CableZDeclZT26-NJ-SMAJ-8.5MHTT-E021May 23 202Composite logarithmic antennaSchwarzbeckVULB 9168HTT-E017May 23 202Horn AntennaSchwarzbeckBBHA9120DHTT-E016May 23 202		May 23 2022	May 22 2023			
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	May 23 2022	May 22 2023	
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	May 23 2022	May 22 2023	
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	May 23 2022	May 22 2023	
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	May 23 2022	May 22 2023	
14	high-frequency Amplifier	HP	8449B	HTT-E014	May 23 2022	May 22 2023	
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	May 23 2022	May 22 2023	
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	May 23 2022	May 22 2023	
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May 23 2022	May 22 2023	
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	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	
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	May 23 2022	May 22 2023	
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	May 23 2022	May 22 2023	
23	DC power supply	Agilent	E3632A	HTT-E023	May 23 2022	May 22 2023	
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	May 23 2022	May 22 2023	
25	Analog signal generator	Agilent	N5181A	HTT-E025	May 23 2022	May 22 2023	
26	Vector signal generator	Agilent	N5182A	HTT-E026	May 23 2022	May 22 2023	
27	Power sensor	Keysight	U2021XA	HTT-E027	May 23 2022	May 22 2023	
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	May 23 2022	May 22 2023	
29	Radiated Emission Test Software	mission Test Farad EZ-EMC N/A		N/A	N/A	N/A	
30	Conducted Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A	
31	RF Test Software	panshanrf	TST	N/A	N/A	N/A	

5. Test Instruments list

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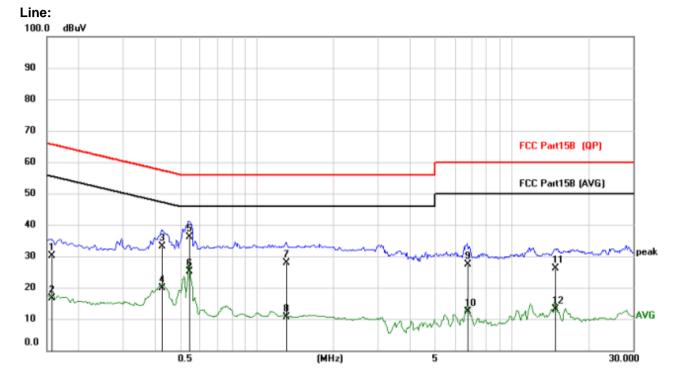


6. Test results and Measurement Data

6.1. Conducted Emissions

Tost Poquiromont:	FCC Part15 C Section 15.207						
Test Requirement:							
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sy	weep time=auto					
Limit:	Frequency range (MHz)		Limit (dBuV)				
	0.15-0.5	Quasi-peak 66 to 56*		rage o 46*			
	0.5-5	56		6			
	5-30	60		50			
	* Decreases with the logarithm						
Test setup:							
Test procedure:	 Reference Plane Isn 40cm 80cm Filter AC power AUX Equipment E.U.T Filter AC power Test table/Insulation plane Remark <i>EUT:</i> Equipment Under Test LISN Exceiver <i>I.SN:</i> Line impedence Stabilization Network 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. 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). 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:							
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.: 25 °C Hun		Press.:	1012mbar			
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						
	1 400						

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

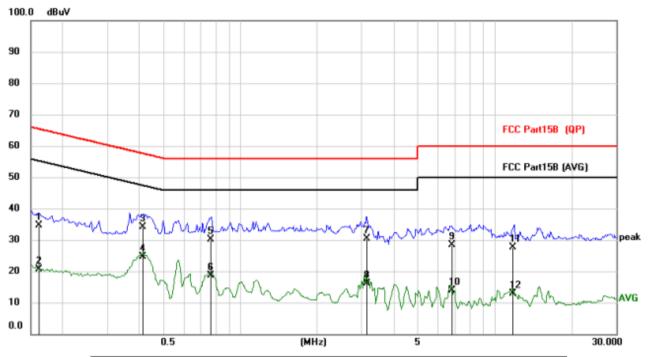


Measurement data:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1577	19.84	10.38	30.22	65.58	-35.36	QP
2		0.1577	6.22	10.38	16.60	55.58	-38.98	AVG
3		0.4259	22.72	10.43	33.15	57.33	-24.18	QP
4		0.4259	9.43	10.43	19.86	47.33	-27.47	AVG
5	*	0.5407	25.58	10.51	36.09	56.00	-19.91	QP
6		0.5439	14.74	10.51	25.25	46.00	-20.75	AVG
7		1.3098	17.03	10.88	27.91	56.00	-28.09	QP
8		1.3098	-0.32	10.88	10.56	46.00	-35.44	AVG
9		6.7332	16.08	11.39	27.47	60.00	-32.53	QP
10		6.7332	1.06	11.39	12.45	50.00	-37.55	AVG
11		14.8280	14.15	12.08	26.23	60.00	-33.77	QP
12		14.8280	1.01	12.08	13.09	50.00	-36.91	AVG

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Neutral:



		Freq.	Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1617	24.26	10.26	34.52	65.38	-30.86	QP
2		0.1617	10.44	10.26	20.70	55.38	-34.68	AVG
3		0.4127	23.76	10.30	34.06	57.59	-23.53	QP
4	*	0.4127	14.35	10.30	24.65	47.59	-22.94	AVG
5		0.7630	19.44	10.68	30.12	56.00	-25.88	QP
6		0.7630	8.02	10.68	18.70	46.00	-27.30	AVG
7		3.1231	19.45	10.85	30.30	56.00	-25.70	QP
8		3.1231	5.21	10.85	16.06	46.00	-29.94	AVG
9		6.7333	17.57	10.93	28.50	60.00	-31.50	QP
10		6.7333	2.93	10.93	13.86	50.00	-36.14	AVG
11		11.7446	15.94	11.74	27.68	60.00	-32.32	QP
12		11.7446	1.10	11.74	12.84	50.00	-37.16	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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 Tel: 0755-23595200
 Fax: 0755-23595201

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



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

6.2. Conducted Output Power

Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	2.05		
Middle	1.48	30.00	Pass
Highest	0.06		



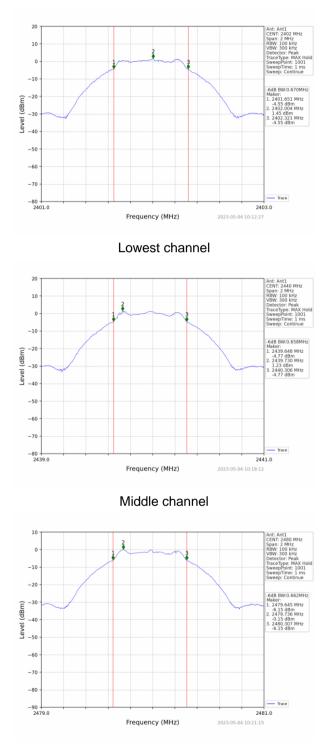
6.3. Channel Bandwidth

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 °C Humid.: 52% Press.: 1012mbar									

Measurement Data

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result	
Lowest	0.670			
Middle	0.658	>500	Pass	
Highest	0.662			





Test plot as follows:

Highest channel



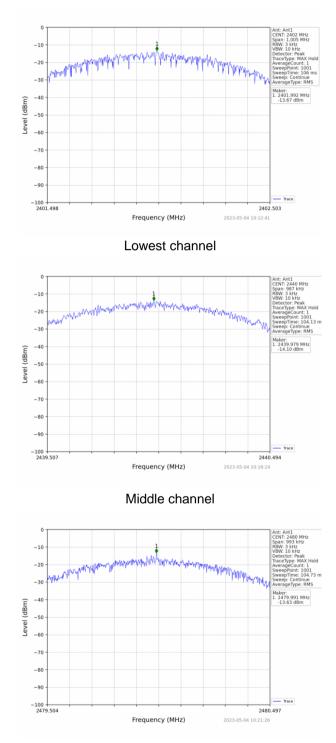
Test Requirement: Test Method:		FCC Part15 C Section 15.247 (e) ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02									
Limit:	8dBm/3kHz	8dBm/3kHz									
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table										
		Ground	l Reference Pla	ne							
Test Instruments:	Refer to see	ction 6.0 for d	letails								
Test mode:	Refer to see	ction 5.2 for d	letails								
Test results:	Pass	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	-13.67		
Middle	Middle -14.10		Pass
Highest	-13.63		





Test plot as follows:

Highest channel

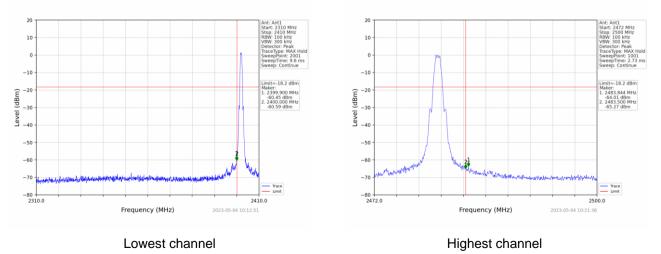


6.5. Band edges

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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Shenzhen, Guangdong, China



6.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205										
Test Method:	ANSI C63.10:2013										
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.										
Test site:	Measurement Distance: 3m										
Receiver setup:	Frequency Detector RBW VBW Value										
•		Poak		1MHz	3MH		Peak				
	Above 1GHz RMS 1MHz 3MHz Average										
Limit:	Frequency Limit (dBuV/m @3m) Value										
	Aboy	/e 1GHz		54	.00	A۱	verage				
	ADOV			74	1.00	ŀ	Peak				
	Tum Tablev <150cm>	<pre></pre>									
Test Procedure:	-		-								
	 Receiver Preamplifier 1. The EUT was placed on the top of a rotating table 1.5 meters above 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, quasi-peak 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 										
Test Instruments:	Refer to sect	<u>e mode is re</u> tion 6.0 for d			•						
Test mode:	Refer to sect	tion 5.2 for d	etails								
Test results:	Pass										
rootroouno.	Temp.: 25 °C Humid.: 52% Press.: 1012mbar										

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Measurement Data

Operation Mode: GFSK TX Low channel(2402MHz)

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
2390	58.96	26.20	5.72	33.30	57.58	74	-16.42	peak
2390	46.52	26.20	5.72	33.30	45.14	54	-8.86	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
2390	60.28	26.20	5.72	33.30	58.90	74	-15.10	peak
2390	45.99	26.20	5.72	33.30	44.61	54	-9.39	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	55.37	28.60	6.97	32.70	58.24	74	-15.76	peak
2483.5	41.59	28.60	6.97	32.70	44.46	54	-9.54	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	57.35	28.60	6.97	32.70	60.22	74	-13.78	peak
2483.5	42.69	28.60	6.97	32.70	45.56	54	-8.44	AVG

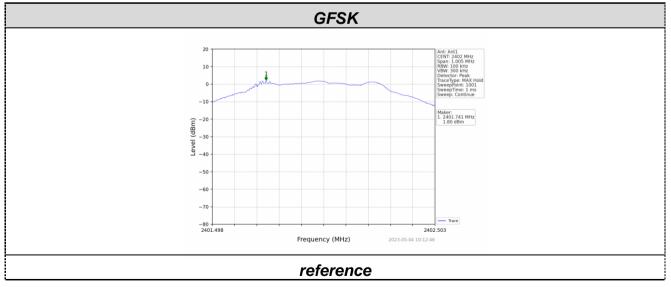


6.6. Spurious Emission

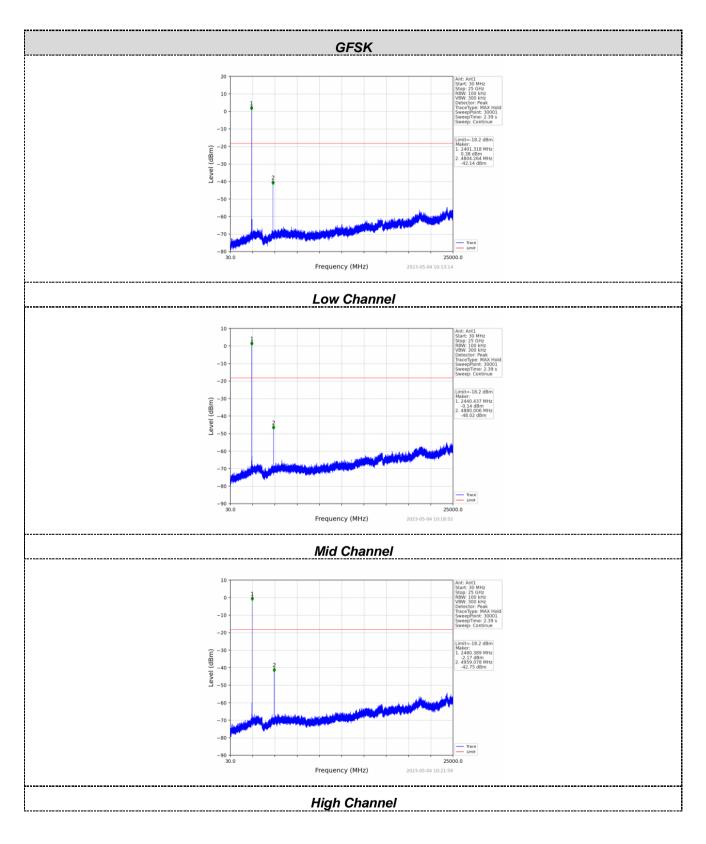
6.6.1 Conducted Emission Method

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:







Shenzhen HTT Technology Co.,Ltd.Tel: 0755-23595200Fax: 0755-235952011F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District,
Shenzhen, Guangdong, China

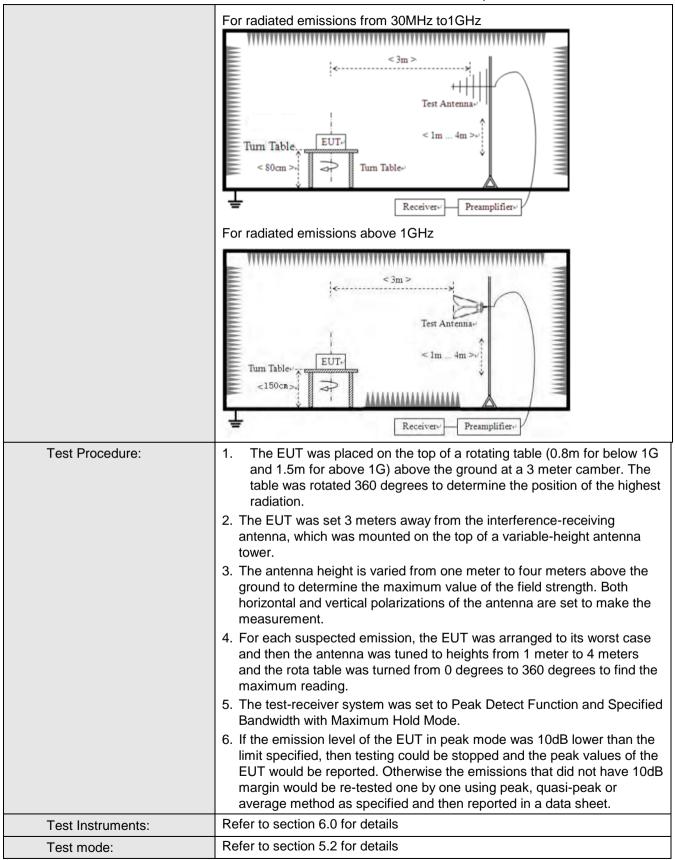


6.6.2 Radiated Emission Metho									_
Test Requirement:	FCC Part15 C Section	on 15	5.209						
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distar	ice: (3m						_
Receiver setup:	Frequency	[Detector	RB\	Ν	VBW	,	Value	
	9KHz-150KHz	Qı	uasi-peak	200	Ηz	600H	z	Quasi-peak	
	150KHz-30MHz	Qı	uasi-peak	9KF	lz	30KH:	z	Quasi-peak	
	30MHz-1GHz	Qı	uasi-peak	120K	Hz	300KH	lz	Quasi-peak	
	Above 1GHz		Peak	1M⊦	Ιz	3MHz	<u>z</u>	Peak	
	Above TGHZ		Peak	1M⊦	Ηz	10Hz		Average	
Limit:	Frequency		Limit (u∖	//m)	V	alue	Μ	leasurement Distance	
	0.009MHz-0.490MH		2400/F(k	(Hz)	(Hz)			300m	
	0.490MHz-1.705M	Hz	24000/F(KHz)		QP		30m	
	1.705MHz-30MHz		30			QP		30m	
	30MHz-88MHz		100			QP			
	88MHz-216MHz		150			QP			
	216MHz-960MH	Z	200			QP		3m	
	960MHz-1GHz		500			QP	om		
	Above 1GHz		500		Av	verage Peak			
			5000		F				
Test setup:	For radiated emissio	ns fr	om 9kHz to	30MH	z			_	
	Tum Table E < 80cm >-		< 3m > Ter z Turn Table+	it Antenna Im Rece	Ĭ				

6.6.2 Radiated Emission Method



Report No.: HTT202304418F01



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



				перент	0 111 12020		
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Measurement data:

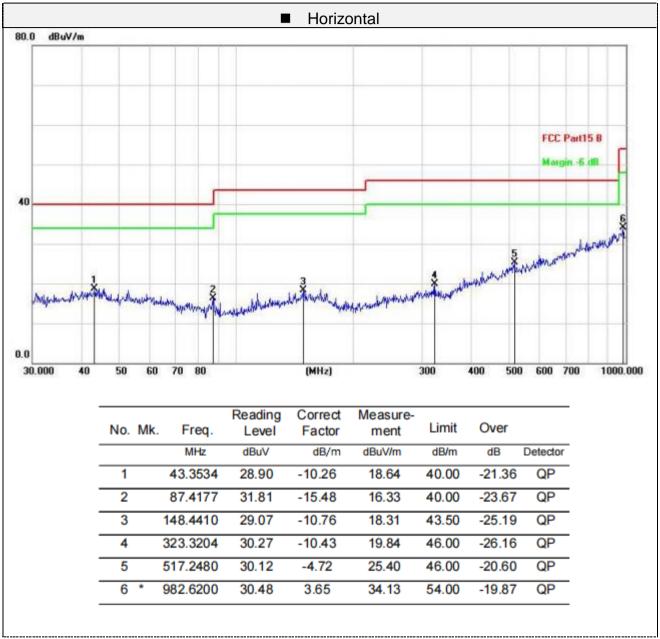
Remark:

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.



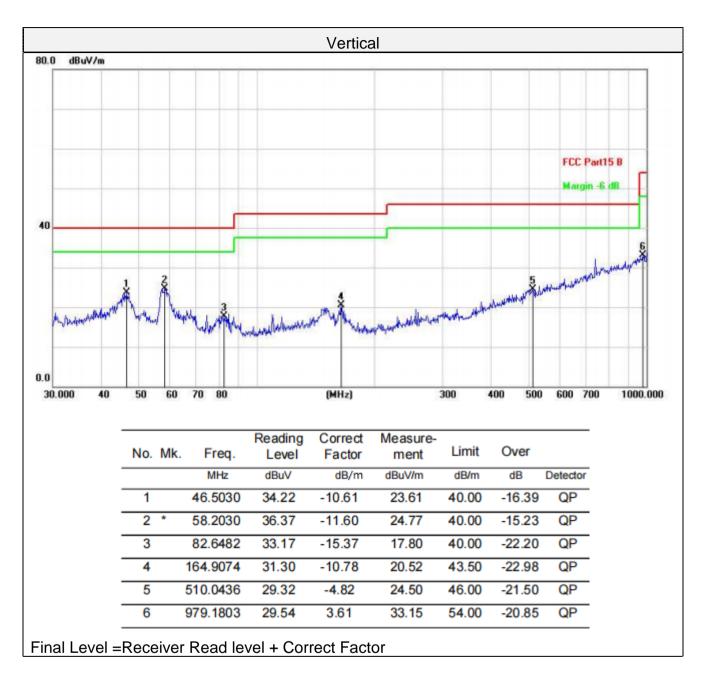


Below 1GHz

 Shenzhen HTT Technology Co.,Ltd.
 Tel: 0755-23595200 Fax: 0755-23595201

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







■ Above 1-25GHz

CH Low (2402MHz)

Horizontal:

		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
4804	50.57	31.40	8.18	32.10	58.05	74.00	-15.95	peak
4804	36.25	31.40	8.18	32.10	43.73	54.00	-10.27	AVG
7206	44.13	35.80	10.83	31.40	59.36	74.00	-14.64	peak
7206	29.36	35.80	10.83	31.40	44.59	54.00	-9.41	AVG

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

Vertical:

				5			1	1
		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
		. ,	. ,			· · /		<u> </u>
4804	51.38	31.40	8.18	32.10	58.86	74.00	-15.14	peak
4804	35.78	31.40	8.18	32.10	43.26	54.00	-10.74	AVG
7206	43.99	35.80	10.83	31.40	59.22	74.00	-14.78	peak
7206	29.08	35.80	10.83	31.40	44.31	54.00	-9.69	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	50.68	31.40	9.17	32.10	59.15	74.00	-14.85	peak
4880	36.74	31.40	9.17	32.10	45.21	54.00	-8.79	AVG
7320	44.61	35.80	10.83	31.40	59.84	74.00	-14.16	peak
7320	28.74	35.80	10.83	31.40	43.97	54.00	-10.03	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
4880	49.89	31.40	9.17	32.10	58.36	74.00	-15.64	peak
4880	35.67	31.40	9.17	32.10	44.14	54.00	-9.86	AVG
7320	44.50	35.80	10.83	31.40	59.73	74.00	-14.27	peak
7320	29.31	35.80	10.83	31.40	44.54	54.00	-9.46	AVG



CH High (2480MHz)

Horizontal:

		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	50.36	31.40	9.17	32.10	58.83	74.00	-15.17	peak
4960	37.45	31.40	9.17	32.10	45.92	54.00	-8.08	AVG
7440	44.93	35.80	10.83	31.40	60.16	74.00	-13.84	peak
7440	29.58	35.80	10.83	31.40	44.81	54.00	-9.19	AVG

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

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
	(00µV)	(ub/iii)	(ub)	(ub)		(ubµv/m)	(ub)	туре
4960	50.86	31.40	9.17	32.10	59.33	74.00	-14.67	peak
4960	35.69	31.40	9.17	32.10	44.16	54.00	-9.84	AVG
7440	43.55	35.80	10.83	31.40	58.78	74.00	-15.22	peak
7440	29.67	35.80	10.83	31.40	44.90	54.00	-9.10	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.



6.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-topoint operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

The maximum gain of antenna was 0.0 dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen HTT Technology Co., Ltd. does not assume any responsibility.



7. Test Setup Photo

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

8. EUT Constructional Details

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

-----End-----