

TEST Report

Applicant:	Dongguan G-Link Intelligent Manufacturing Technology Co., Ltd.
Address of Applicant:	Room 201, Building 12, No.24, Guangyu Road, Four villages, Tangxia Town, Dongguan City, Guangdong Province, China
Manufacturer :	Dongguan G-Link Intelligent Manufacturing Technology Co., Ltd.
Address of Manufacturer :	Room 201, Building 12, No.24, Guangyu Road, Four villages, Tangxia Town, Dongguan City, Guangdong Province, China
Equipment Under Test (El	(TL
Product Name:	locator
Model No.:	E300
Series model:	N/A
Trade Mark:	N/A
FCC ID:	2BHHJ-E300
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	Jul. 02, 2024
Date of Test:	Jul. 02, 2024 ~ Jul. 10, 2024
Date of report issued:	Jul. 10, 2024
Test Result :	PASS *

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



1. Version

Version No.	Date	Description
00	Jul. 10, 2024	Original

Tested/ Prepared By

Heber He Date:

Jul. 10, 2024

Project Engineer

Bruce Zhu Date:

Jul. 10, 2024

Reviewer



Jul. 10, 2024

Approved By :

Check By:



2. Contents

1. VERSION	.2
2. CONTENTS	.3
3. TEST SUMMARY	.4
4. GENERAL INFORMATION	.5
 4.1. GENERAL DESCRIPTION OF EUT	.7 .7 .7 .7 .7 .7
5. TEST INSTRUMENTS LIST	.8
6. TEST RESULTS AND MEASUREMENT DATA	.9
6.1. CONDUCTED EMISSIONS 6.2. CONDUCTED OUTPUT POWER 6.3. CHANNEL BANDWIDTH. 6.4. POWER SPECTRAL DENSITY 6.5. BAND EDGES 6.5.1 Conducted Emission Method. 6.5.2 Radiated Emission Method. 6.6. SPURIOUS EMISSION. 6.6.1 Conducted Emission Method. 6.6.2 Radiated Emission Method. 6.6.2 Radiated Emission Method. 6.7. ANTENNA REQUIREMENT.	10 11 13 15 16 18 18 20
7. TEST SETUP PHOTO2	28
8. EUT CONSTRUCTIONAL DETAILS2	28



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	N/A
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	1~18GHz	3.54 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.66 dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			



4. General Information

4.1. General Description of EUT

locator
E300
N/A
HTT202406392-1(Engineer sample) HTT202406392-2(Normal sample)
2402~2480 MHz
40
GFSK
2MHz
Chip Antenna
2.67 dBi
DC 3.0V From Battery



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 accredited 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 Aug. 09 2024 HTT-E028 1 9*6*6 Aug. 10 2021 technology co., LTD Chamber Shenzhen C.R.T 2 Control Room 4.8*3.5*3.0 HTT-E030 Aug. 10 2021 Aug. 09 2024 technology co., LTD 3 HTT-E022 Apr. 26 2024 **EMI Test Receiver** Rohde&Schwar ESCI7 Apr. 25 2025 Rohde&Schwar HTT-E037 4 FSP Apr. 26 2024 Apr. 25 2025 Spectrum Analyzer 5 Coaxial Cable ZDecl ZT26-NJ-NJ-0.6M HTT-E018 Apr. 26 2024 Apr. 25 2025 6 Coaxial Cable ZDecl ZT26-NJ-SMAJ-2M HTT-E019 Apr. 26 2024 Apr. 25 2025 7 Coaxial Cable ZDecl ZT26-NJ-SMAJ-0.6M HTT-E020 Apr. 26 2024 Apr. 25 2025 8 Coaxial Cable ZDecl ZT26-NJ-SMAJ-8.5M HTT-E021 Apr. 26 2024 Apr. 25 2025 Composite logarithmic 9 Schwarzbeck VULB 9168 HTT-E017 May. 21 2024 May. 20 2025 antenna May. 19 2025 10 Schwarzbeck May. 20 2024 Horn Antenna BBHA9120D HTT-E016 11 Loop Antenna Zhinan ZN30900C HTT-E039 Apr. 26 2024 Apr. 25 2025 12 OBH100400 HTT-E040 Horn Antenna Beijing Hangwei Dayang Apr. 26 2024 Apr. 25 2025 low frequency 13 Sonoma Instrument 310 HTT-E015 Apr. 26 2024 Apr. 25 2025 Amplifier high-frequency 14 HP 8449B HTT-E014 Apr. 26 2024 Apr. 25 2025 Amplifier Variable frequency power Shenzhen Anbiao 15 ANB-10VA HTT-082 Apr. 26 2024 Apr. 25 2025 Instrument Co., Ltd supply 16 **EMI Test Receiver** ESCS30 Apr. 26 2024 Apr. 25 2025 Rohde & Schwarz HTT-E004 17 Artificial Mains Rohde & Schwarz ESH3-Z5 HTT-E006 May. 23 2024 May. 22 2025 18 HTT-E038 Artificial Mains Rohde & Schwarz ENV-216 May. 23 2024 May. 22 2025 19 Cable Line Robinson Z302S-NJ-BNCJ-1.5M HTT-E001 Apr. 26 2024 Apr. 25 2025 20 Attenuator Robinson 6810.17A HTT-E007 Apr. 26 2024 Apr. 25 2025 Variable frequency power Shenzhen Yanghong 21 YF-650 (5KVA) HTT-E032 Apr. 26 2024 Apr. 25 2025 Electric Co., Ltd supply Shenzhen C.R.T 22 Control Room 8*4*3.5 HTT-E029 Aug. 10 2021 Aug. 09 2024 technology co., LTD Apr. 26 2024 23 DC power supply Agilent E3632A HTT-E023 Apr. 25 2025 HTT-E024 24 **EMI Test Receiver** Agilent N9020A Apr. 26 2024 Apr. 25 2025 25 Analog signal generator Agilent N5181A HTT-E025 Apr. 26 2024 Apr. 25 2025 26 Vector signal generator Agilent N5182A HTT-E026 Apr. 26 2024 Apr. 25 2025 27 Power sensor Keysight U2021XA HTT-E027 Apr. 26 2024 Apr. 25 2025 Temperature and Shenzhen Anbiao 28 TH10R HTT-074 Apr. 27 2025 Apr. 28 2024 humidity meter Instrument Co., Ltd Radiated Emission Test 29 EZ-EMC N/A N/A N/A Farad 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

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



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	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto		
Limit:		Limi	it (dBuV)	
	Frequency range (MHz)	Quasi-peak	Ave	
	0.15-0.5	66 to 56*	56 to	
	0.5-5	56	4	
	5-30	60	5	0
Test setup:	* Decreases with the logarithm	· · ·		
Test procedure:	Reference Plane LISN 40cm 80cm Filter AC power Equipment E.U.T Test table/Insulation plane Remark: E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m 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 50ohm/50uH coupling impedance for the measuring equipment.			
	 The peripheral devices are LISN that provides a 50ohr termination. (Please refer to photographs). Both sides of A.C. line are interference. In order to find 	m/50uH coupling im o the block diagram checked for maximu	pedance with of the test se um conducted	50ohm tup and
	positions of equipment and according to ANSI C63.10:	all of the interface	cables must b	e changed
Test Instruments:		all of the interface 2013 on conducted	cables must b	e changed
Test Instruments: Test mode:	according to ANSI C63.10:	all of the interface 2013 on conducted	cables must b	e changed
	according to ANSI C63.10: Refer to section 6.0 for details Refer to section 5.2 for details	all of the interface 2013 on conducted	cables must b	e changed
Test mode:	according to ANSI C63.10: Refer to section 6.0 for details Refer to section 5.2 for details	all of the interface 2013 on conducted	cables must b measuremen	e changed t.



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: Humid.: 52% Press.: 1012mbar Temp.: 25 °C

6.2. Conducted Output Power

Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	3.47		
Middle	3.26	30.00	Pass
Highest	3.03		



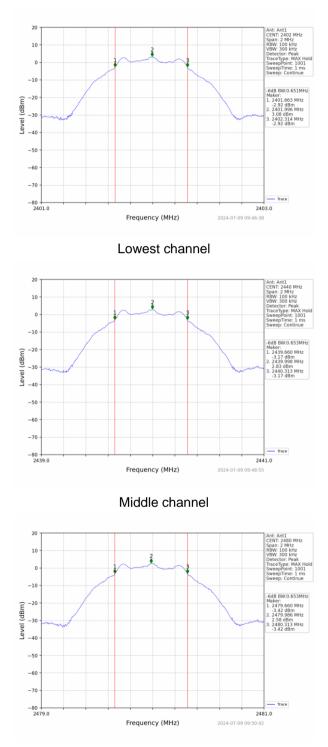
6.3. Channel Bandwidth

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 °C Humid.: 52% Press.: 1012mbar		

Measurement Data

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result	
Lowest	0.651			
Middle	0.653	>500	Pass	
Highest	0.653			





Test plot as follows:

Highest channel



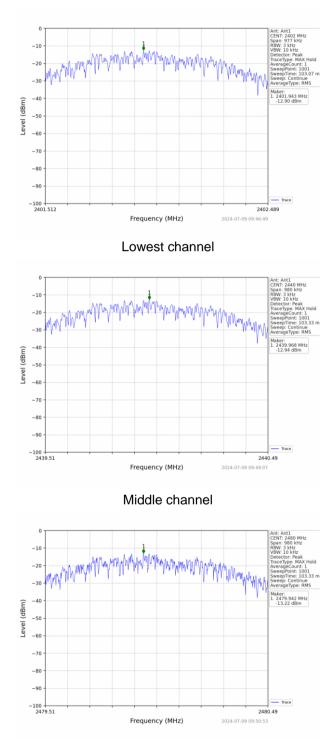
Test Requirement: Test Method:		FCC Part15 C Section 15.247 (e) ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02								
Limit:	8dBm/3kHz									
Test setup:	Sp									
Test Instruments:	Refer to se	ction 6.0 for d	letails							
Test mode:	Refer to se	ction 5.2 for d	letails							
Test 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	-12.90			
Middle	-12.94	8.00	Pass	
Highest	-13.22			





Test plot as follows:

Highest channel

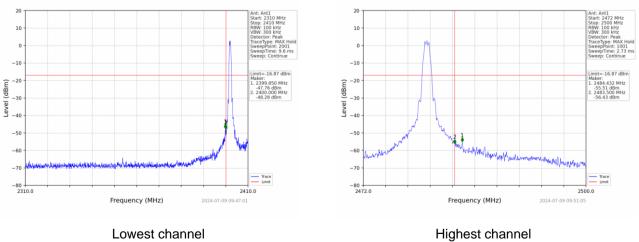


6.5. Band edges

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:



Lowest channel

Tel: 0755-23595200 Fax: 0755-23595201 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



Test Requirement: FCC Part15 C Section 15.209 and 15.205 ANSI C63.10:2013 Test Method: 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: Detector RBW VBW Value Frequency 3MHz Peak Peak 1MHz 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. Test Procedure: 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, 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

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



Measurement Data

Operation Mode: GFSK

Freque	ncy(MHz)):	24	02	Pola	arity:	Н		NL.	
Frequency (MHz)	Emis Le [.] (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
2390.00	60.65	PK	74	13.35	62.04	27.2	4.31	32.9	-1.39	
2390.00	44.96	AV	54	9.04	46.35	27.2	4.31	32.9	-1.39	
Freque	ncy(MHz)):	24	02	Pola	arity:		VERTICAL		
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
2390.00	59.01	PK	74	14.99	60.40	27.2	4.31	32.9	-1.39	
2390.00	46.69	AV	54	7.31	48.08	27.2	4.31	32.9	-1.39	
Freque	ncy(MHz)):	24	80	P ola	arity:	н	IORIZONTA	AL	
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
2483.50	55.99	PK	74	18.01	56.92	27.4	4.47	32.8	-0.93	
2483.50	45.97	AV	54	8.03	46.90	27.4	4.47	32.8	-0.93	
Freque	ncy(MHz)):	24	80	Pola	arity:		VERTICAL		
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
2483.50	55.26	PK	74	18.74	56.19	27.4	4.47	32.8	-0.93	
2483.50	43.84	AV	54	10.16	44.77	27.4	4.47	32.8	-0.93	

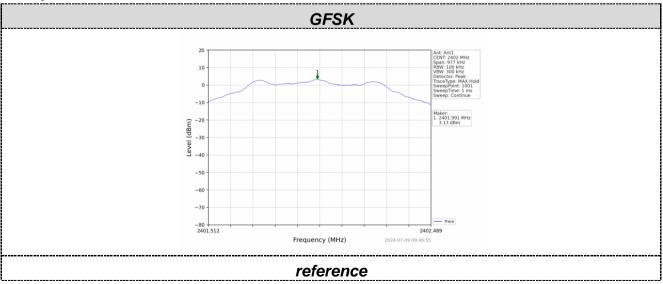


6.6. Spurious Emission

6.6.1 Conducted Emission Method

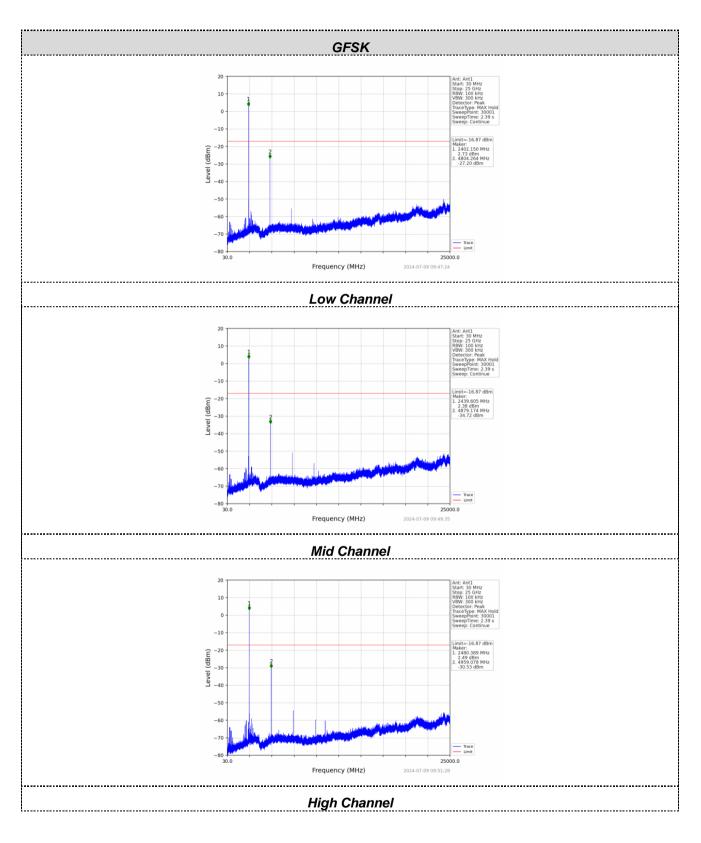
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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 °C Humid.: 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





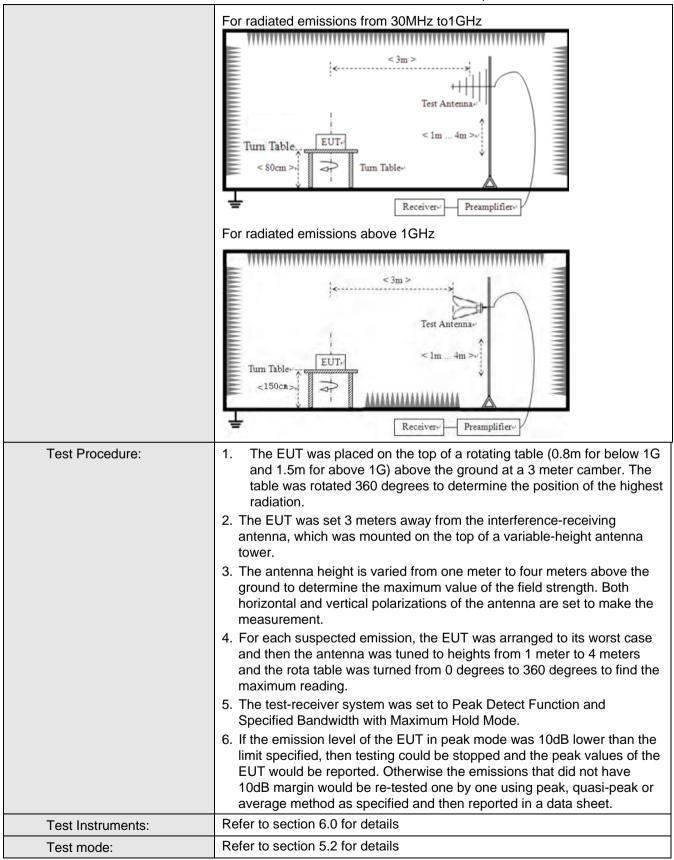


D:2013 Hz Int Distance Incy DKHz C OMHz C GHz C GHz C GHz -	C Part15 C Section SI C63.10:2013 Hz to 25GHz easurement Distant Frequency 9KHz-150KHz 50KHz-30MHz 30MHz-1GHz Above 1GHz	3m Detector Jasi-peak Jasi-peak Jasi-peak	RBW 200Hz 9KHz 120KHz	VBW 600Hz 30KHz	Value	
Hz nt Distance ncy DKHz C OMHz C GHz C GHz C	Hz to 25GHz easurement Distan Frequency 9KHz-150KHz 50KHz-30MHz 30MHz-1GHz	Detector Jasi-peak Jasi-peak Jasi-peak	200Hz 9KHz	600Hz		
nt Distance ncy DKHz C DMHz C GHz C GHz C GHz —	asurement Distan Frequency 9KHz-150KHz 50KHz-30MHz 30MHz-1GHz	Detector Jasi-peak Jasi-peak Jasi-peak	200Hz 9KHz	600Hz		
ncy C OKHz C OMHz C GHz C GHz -	Frequency 9KHz-150KHz 50KHz-30MHz 30MHz-1GHz	Detector Jasi-peak Jasi-peak Jasi-peak	200Hz 9KHz	600Hz		
OKHZ CO OMHZ CO GHZ CO GHZ	9KHz-150KHz 50KHz-30MHz 30MHz-1GHz	Jasi-peak Jasi-peak Jasi-peak	200Hz 9KHz	600Hz		
OMHz C GHz C GHz —	50KHz-30MHz 30MHz-1GHz	uasi-peak uasi-peak	9KHz	-		
GHz (GHz	30MHz-1GHz	uasi-peak		30KHz	· · ·	
GHz —		•	10020-	-		
	Above 1GHz	Deela		300KHz	-	
		Peak	1MHz	3MHz	Peak	
		Peak	1MHz	10Hz	Average	
lency	Measurement Distance					
0.009MHz-0.490MHz 2400/F(KHz) QP 300m						
·1.705MHz	.490MHz-1.705M	24000/F(k	KHz)	QP	30m	
1.705MHz-30MHz		30		QP	30m	
·88MHz	30MHz-88MHz	100		QP		
216MHz	88MHz-216MHz	150		QP		
·960MHz	216MHz-960MHz	200		QP	3m	
z-1GHz	960MHz-1GHz	500		QP	511	
1047	Above 1GHz	500		verage		
		5000		Peak		
emissions	r radiated emissio	om 9kHz to	30MHz			
	AAA		<	Test Antenna	Test Antenna	

6.6.2 Radiated Emission Method



Report No.: HTT202406392F01





Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
Test voltage:	AC 120V, 6	0Hz						
Test results:	Pass							

Measurement data:

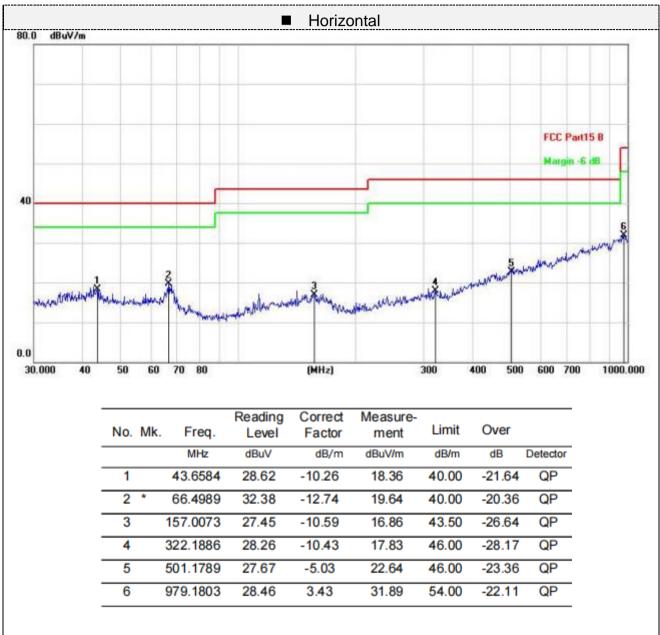
Remark:

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

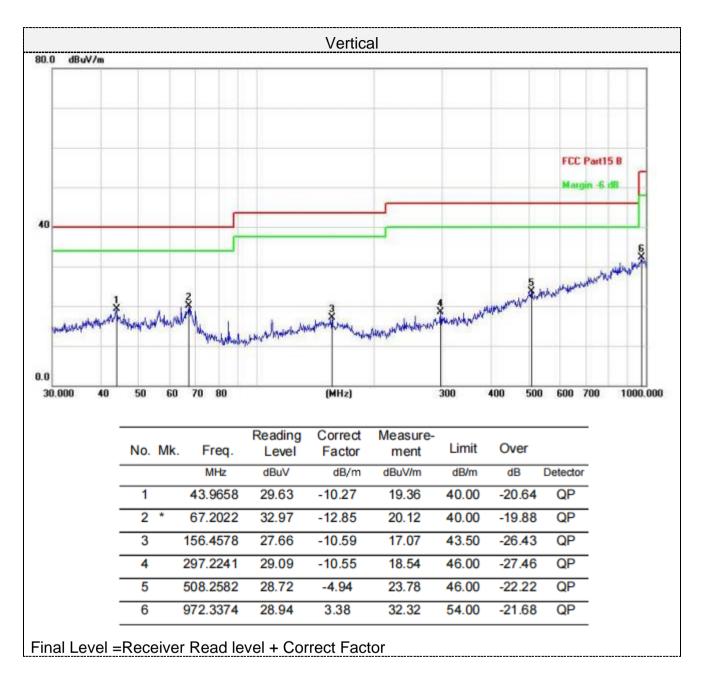
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.





Below 1GHz







Above 1-25GHz

Freque	ncy(MHz)	:	24	02	Polarity:		HORIZONTAL		NL
Frequency (MHz)	Emis Lev	vel	Limit (dBuV/m)	Margin (dB)	Raw Value	Antenna Factor	Cable Factor	Pre- amplifier	Correction Factor
	(dBu	V/m)		, , ,	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
4804.00	60.19	PK	74	13.81	54.49	31	6.5	31.8	5.7
4804.00	41.39	AV	54	12.61	35.69	31	6.5	31.8	5.7
7206.00	53.97	PK	74	20.03	41.32	36	8.15	31.5	12.65
7206.00	44.43	AV	54	9.57	31.78	36	8.15	31.5	12.65

Freque	ncy(MHz)	:	24	02	Pola	arity:	VERTICAL		
Frequency (MHz)		ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	58.22	PK	74	15.78	52.52	31	6.5	31.8	5.7
4804.00	42.49	AV	54	11.51	36.79	31	6.5	31.8	5.7
7206.00	53.16	PK	74	20.84	40.51	36	8.15	31.5	12.65
7206.00	44.03	AV	54	9.97	31.38	36	8.15	31.5	12.65

Freque	ncy(MHz)):	24	40	Polarity:		HORIZONTAL		NL .
Frequency (MHz)		ssion vel	Limit (dBuV/m)	Margin	Raw Value	Antenna Factor	Cable Factor	Pre- amplifier	Correction Factor
(101112)	(dBu	V/m)	(ubuv/iii)	(dB)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
4880.00	59.84	PK	74	14.16	53.68	31.2	6.61	31.65	6.16
4880.00	45.05	AV	54	8.95	38.89	31.2	6.61	31.65	6.16
7320.00	53.57	PK	74	20.43	40.62	36.2	8.23	31.48	12.95
7320.00	44.28	AV	54	9.72	31.33	36.2	8.23	31.48	12.95



Freque	ncy(MHz)	:	24	40	Pola	arity:	VERTICAL		
Frequency (MHz)	Emis Le [.] (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	61.65	PK	74	12.35	55.49	31.2	6.61	31.65	6.16
4880.00	42.56	AV	54	11.44	36.40	31.2	6.61	31.65	6.16
7320.00	53.98	PK	74	20.02	41.03	36.2	8.23	31.48	12.95
7320.00	44.67	AV	54	9.33	31.72	36.2	8.23	31.48	12.95

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	62.37	, PK	74	11.63	55.71	31.4	6.76	31.5	6.66
4960.00	41.77	AV	54	12.23	35.11	31.4	6.76	31.5	6.66
7440.00	53.56	PK	74	20.44	40.26	36.4	8.35	31.45	13.3
7440.00	44.70	AV	54	9.30	31.40	36.4	8.35	31.45	13.3

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	_	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	62.73	PK	74	11.27	56.07	31.4	6.76	31.5	6.66
4960.00	42.58	AV	54	11.42	35.92	31.4	6.76	31.5	6.66
7440.00	54.15	PK	74	19.85	40.85	36.4	8.35	31.45	13.3
7440.00	45.06	AV	54	8.94	31.76	36.4	8.35	31.45	13.3

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.

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, ChinaShenzhen, Guangdong, China



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-to-point 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 2.67 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-----