

Shenzhen HTT Technology Co., Ltd.

Report No.: HTT202404268F03

TEST Report

Applicant: CHIGEE TECHNOLOGY CO., LTD.

Address of Applicant: 2 Building 2F, Da er shan Sanlian Industrial District, Tangtou

Community, Shiyan Street, Bao'an District, Shenzhen City,

Guangdong Province.

Manufacturer: CHIGEE TECHNOLOGY CO., LTD.

Address of 2 Building 2F, Da er shan Sanlian Industrial District, Tangtou

Manufacturer: Community, Shiyan Street, Bao'an District, Shenzhen City,

Guangdong Province.

Equipment Under Test (EUT)

Product Name: Motorcycle Smart Riding Systen

Model No.: XR-2

Series model: MFP0127, XR-2 PRO, SR6 SE, SR6 LTE, SR6

Trade Mark: CHIGEE

FCC ID: 2A95C-XR-2

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: Apr. 16, 2024

Date of Test: Apr. 16, 2024 ~ Apr. 22, 2024

Date of report issued: Apr. 22, 2024

Test Result: PASS *

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



1. Version

Version No.	Date	Description
00	Apr. 22, 2024	Original

Tested/ Prepared By	Heber He Date:	Apr. 22, 2024
	Project Engineer	
Check By:	Bruce 2hu Date:	Apr. 22, 2024
	Reviewer	
Approved By :	Kevin Yang HTT Date:	Apr. 22, 2024
	Authorized Signature	



2. Contents

	Page
1. VERSION	2
2. CONTENTS	3
3. TEST SUMMARY	4
4. GENERAL INFORMATION	
4.1. GENERAL DESCRIPTION OF EUT 4.2. TEST MODE 4.3. DESCRIPTION OF SUPPORT UNITS 4.4. DEVIATION FROM STANDARDS 4.5. ABNORMALITIES FROM STANDARD CONDITIONS 4.6. TEST FACILITY 4.7. TEST LOCATION 4.8. ADDITIONAL INSTRUCTIONS	
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	
7. TEST SETUP PHOTO	31
8. EUT CONSTRUCTIONAL DETAILS	31



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

Motorcycle Smart Riding Systen		
XR-2		
MFP0127, XR-2 PRO, SR6 SE, SR6 LTE, SR6		
HTT202404268-1(Engineer sample) HTT202404268-2(Normal sample)		
2402~2480 MHz		
40		
GFSK		
1MHz,2MHz		
Chip Antenna		
4.3 dBi		
DC 12V		



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



5. Test Instruments list

Item	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 2021	Aug. 09 2024
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2021	Aug. 09 2024
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	Apr. 26 2023	Apr. 25 2024
4	Spectrum Analyzer	Rohde&Schwar	FSP	HTT-E037	Apr. 26 2023	Apr. 25 2024
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	Apr. 26 2023	Apr. 25 2024
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	Apr. 26 2023	Apr. 25 2024
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	Apr. 26 2023	Apr. 25 2024
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	Apr. 26 2023	Apr. 25 2024
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	May. 21 2023	May. 20 2024
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	May. 20 2023	May. 19 2024
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Apr. 26 2023	Apr. 25 2024
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Apr. 26 2023	Apr. 25 2024
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	Apr. 26 2023	Apr. 25 2024
14	high-frequency Amplifier	HP	8449B	HTT-E014	Apr. 26 2023	Apr. 25 2024
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	Apr. 26 2023	Apr. 25 2024
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	Apr. 26 2023	Apr. 25 2024
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May. 23 2023	May. 22 2024
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May. 23 2023	May. 22 2024
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	Apr. 26 2023	Apr. 25 2024
20	Attenuator	Robinson	6810.17A	HTT-E007	Apr. 26 2023	Apr. 25 2024
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	Apr. 26 2023	Apr. 25 2024
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	Aug. 10 2021	Aug. 09 2024
23	DC power supply	Agilent	E3632A	HTT-E023	Apr. 26 2023	Apr. 25 2024
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	Apr. 26 2023	Apr. 25 2024
25	Analog signal generator	Agilent	N5181A	HTT-E025	Apr. 26 2023	Apr. 25 2024
26	Vector signal generator	Agilent	N5182A	HTT-E026	Apr. 26 2023	Apr. 25 2024
27	Power sensor	Keysight	U2021XA	HTT-E027	Apr. 26 2023	Apr. 25 2024
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	Apr. 28 2023	Apr. 27 2024
29	Radiated Emission Test Software	Farad	EZ-EMC	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

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, Sv	weep time=auto		
Limit:	Fragues at the sec (MIII-)	Lim	it (dBuV)	
	Frequency range (MHz)	Quasi-peak	Ave	erage
	0.15-0.5	66 to 56*		o 46*
	0.5-5	56		46
	* Decreases with the logarithm	60		50
Test setup:				
Test procedure:	Reference Plane LISN 40cm 80cm 80cm 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 a line impedance stabilization	EMI Receiver	This provide	es a
	 50ohm/50uH coupling imperations. 2. The peripheral devices are LISN that provides a 50ohr termination. (Please refer to photographs). 3. Both sides of A.C. line are interference. In order to find positions of equipment and according to ANSI C63.10: 	also connected to to m/50uH coupling imported the block diagram checked for maximud the maximum emit all of the interface	he main pow pedance with of the test so um conducted ssion, the rel cables must	er through a n 50ohm etup and d ative be changed
Test Instruments:	Refer to section 6.0 for details	3		
Test mode:	Refer to section 5.2 for details	3		
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.:	1012mbar
T , u	AC 4201/ COLL-	<u> </u>		
Test voltage:	AC 120V, 60Hz			



6.2. Conducted Output Power

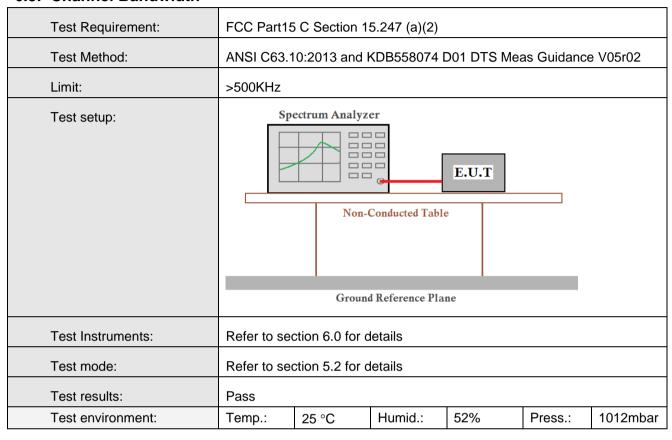
Test Requirement: Test Method:	FCC Part15 C Section 15.247 (b)(3) ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02		
Limit:	30dBm		
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2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

Measurement Data

Mode	Test channel	Peak Output Power (dBm)	Limit(dBm)	Result	
	Lowest -1.13				
1M	Middle	-5.77	30.00	Pass	
	Highest	-7.02			
	Lowest	-0.99			
2M	Middle	-5.81	30.00	Pass	
	Highest	-6.19			



6.3. Channel Bandwidth



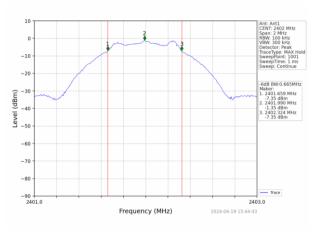
Measurement Data

Mode	Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result	
	Lowest 0.665				
1M	Middle	0.668	>500	Pass	
	Highest	0.666			
	Lowest	1.135			
2M	Middle	1.132	>500	Pass	
	Highest	1.228			

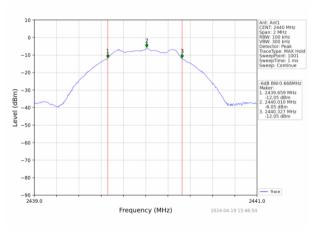


Test plot as follows:

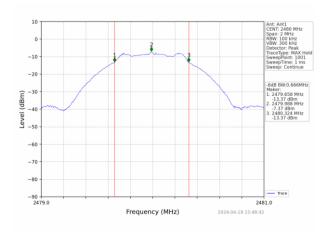
1M:



Lowest channel



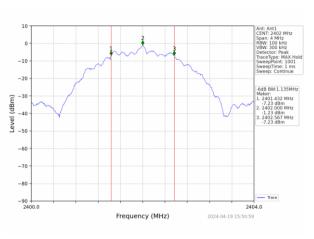
Middle channel



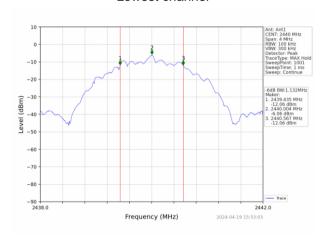
Highest channel



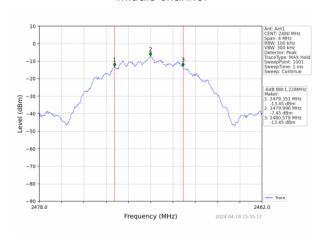
2M:



Lowest channel



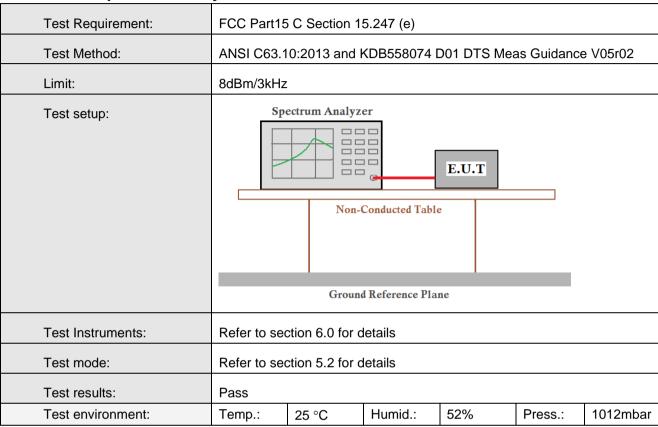
Middle channel



Highest channel



6.4. Power Spectral Density



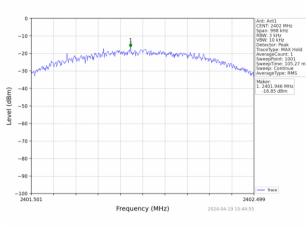
Measurement Data

Mode	Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result	
	Lowest	-16.85			
1M	Middle	-21.98	8.00	Pass	
	Highest	-23.71			
	Lowest	-19.36			
2M	Middle	-23.64	8.00	Pass	
	Highest	-24.98			

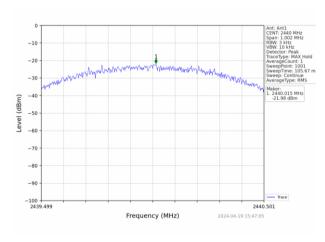


Test plot as follows:

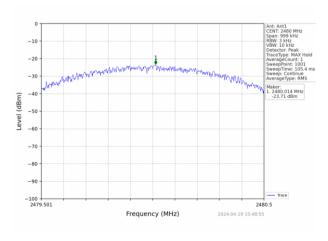
1M:



Lowest channel



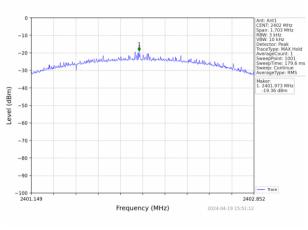
Middle channel



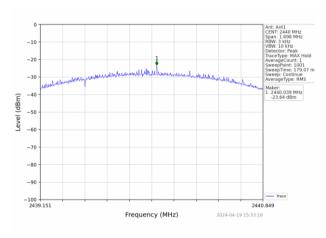
Highest channel



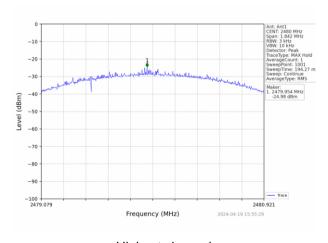
2M:



Lowest channel



Middle channel



Highest channel



6.5. Band edges

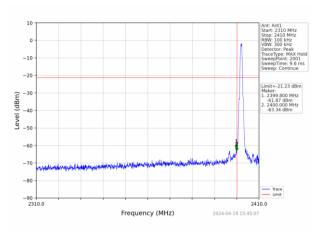
6.5.1 Conducted Emission Method

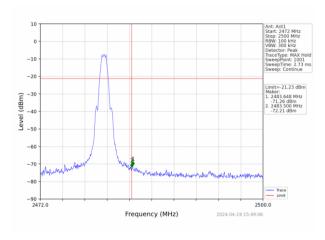
	tilou								
Test Requirement:	FCC Part15	C Section 1	5.247 (d)						
Test Method:	ANSI C63.1	0:2013 and I	KDB558074 [D01 DTS Mea	as Guidance	e V05r02			
Limit:	spread spe power that below that i highest leve	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional 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:	Sp	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
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			

Test plot as follows:



1M:

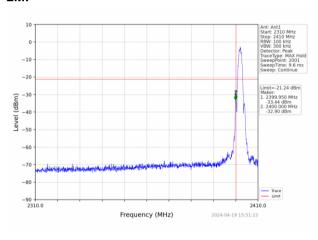


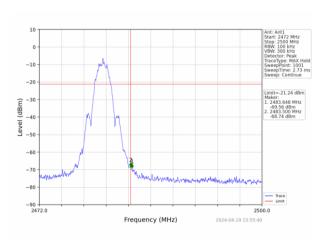


Lowest channel

Highest channel

2M:





Lowest channel

Highest channel



6.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10	0:2013							
Test Frequency Range:	All of the res			ed, only	the wor	st band's (2	2310MHz to		
Test site:	Measuremer								
Receiver setup:	Frequency	/ Detec	ctor	RBW	VBW	/ \	/alue		
·	Above 1GF	Pea	ık	1MHz	3MH	z F	Peak		
	Above 1GF	12 RM	S	1MHz	3MH	z Av	verage		
Limit:	Free	quency	Lim	it (dBuV	n) \	/alue			
	Above				0		verage		
Test setup:	Tum Table - < 150cm > Peak Preamplifier Pream								
Test Procedure:	 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. The radiation measurements are performed in X, Y, Z axis positioning. 								
Test Instruments:	Refer to sect	e mode is re tion 6.0 for c			· · ••				
Test mode:	Refer to section 5.2 for details								
Test results:	Pass								
Test environment:	1	25. ℃	Humid.:	52%	<u> </u>	Press.:	1012mbar		
rest environment.	Temp.:	25 °C	numu	32%	D	r1699	TOTZITIDAL		



Measurement Data

Operation Mode: GFSK (1M)

Freque	ncy(MHz)	:	24	02	Pola	arity:	Н	ORIZONTA	L
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	59.38	PK	74	14.62	60.77	27.2	4.31	32.9	-1.39
2390.00	45.01	AV	54	8.99	46.40	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	59.37	PK	74	14.63	60.76	27.2	4.31	32.9	-1.39
2390.00	46.86	AV	54	7.14	48.25	27.2	4.31	32.9	-1.39
Freque	ncy(MHz)	:	24	2480 P olarity:		н	ORIZONTA	۱L	
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	56.20	PK	74	17.80	57.13	27.4	4.47	32.8	-0.93
2483.50	44.46	AV	54	9.54	45.39	27.4	4.47	32.8	-0.93
Freque	ncy(MHz)	:	24	80	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Le	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	56.06	PK	74	17.94	56.99	27.4	4.47	32.8	-0.93
2483.50	44.30	AV	54	9.70	45.23	27.4	4.47	32.8	-0.93

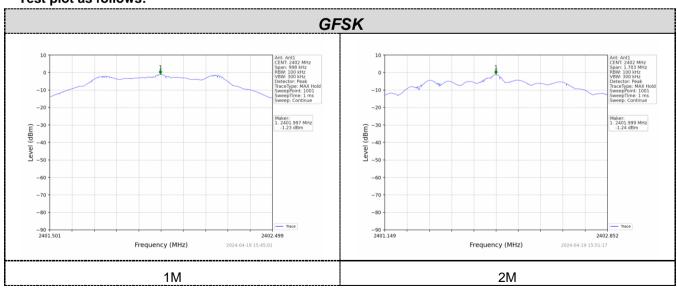


6.6. Spurious Emission

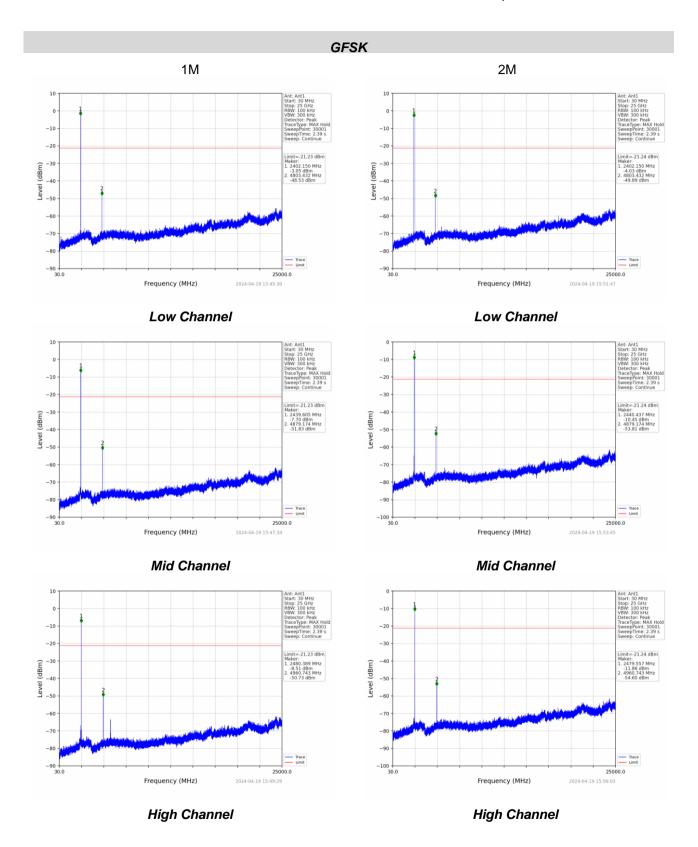
6.6.1 Conducted Emission Method

0.0.1 Odlidacted Elillosion Me							
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:





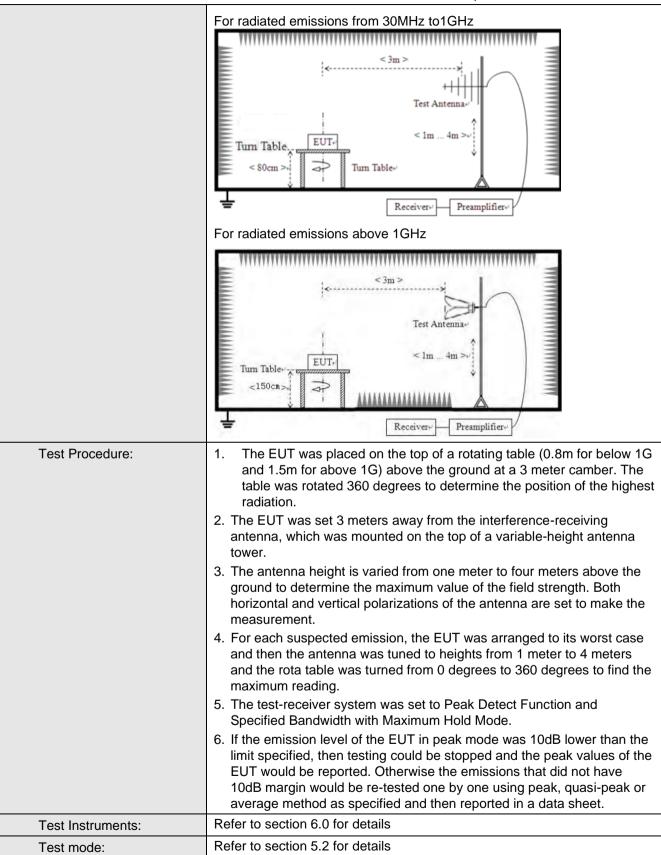




6.6.2 Radiated Emission Method

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	nce: 3	3m					
Receiver setup:	Frequency		Detector RBV		W VBW			Value
	9KHz-150KHz	Qι	ıasi-peak	200	Hz	600Hz	z (Quasi-peak
	150KHz-30MHz	Qι	ıasi-peak	9KF	Ηz	30KH	z (Quasi-peak
	30MHz-1GHz Quasi-peak		ıasi-peak	120k	Ήz	300KH	lz (Quasi-peak
	Above 1GHz		Peak	1MF	Ηz	3MHz	<u>-</u>	Peak
	Above 10112		Peak	1MH	Ηz	10Hz		Average
Limit:	Frequency		Limit (u\	//m)	V	/alue		asurement Distance
	0.009MHz-0.490M	lHz	2400/F(k	(Hz)		QP		300m
	0.490MHz-1.705M	lHz	24000/F(I	KHz)	QP		30m	
	1.705MHz-30MH	lz	30		QP			30m
	30MHz-88MHz		100		QP			
	88MHz-216MHz		150			QP		
	216MHz-960MH		200		QP			3m
	960MHz-1GHz		500		QP			····
	Above 1GHz		500		Average			
			5000		Peak			
Test setup:	For radiated emission	ns fr	< 3m >	*******	········			







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

Measurement data:

Remark:

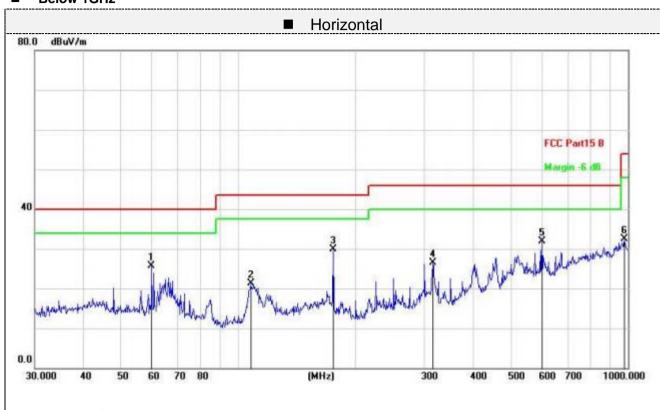
Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 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.

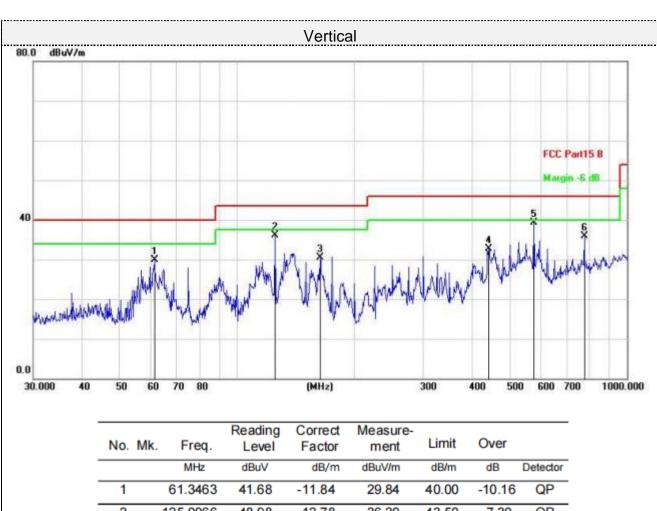


■ Below 1GHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		59.8588	37.24	-11.60	25.64	40.00	-14.36	QP
2		107.5101	35.54	-14.25	21.29	43.50	-22.21	QP
3	*	175.0368	41.88	-11.88	30.00	43.50	-13.50	QP
4		315.4808	36.91	-10.44	26.47	46.00	-19.53	QP
5		601.4265	35.40	-3.44	31.96	46.00	-14.04	QP
6		979.1804	28.98	3.43	32.41	54.00	-21.59	QP





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		61.3463	41.68	-11.84	29.84	40.00	-10.16	QP
2		125.0066	48.98	-12.78	36.20	43.50	-7.30	QP
3		163.1818	41.26	-10.72	30.54	43.50	-12.96	QP
4		441.7425	39.24	-6.55	32.69	46.00	-13.31	QP
5	*	576.6443	43.28	-3.89	39.39	46.00	-6.61	QP
6		776.8777	36.12	-0.18	35.94	46.00	-10.06	QP

Final Level =Receiver Read level + Correct Factor



■ Above 1-25GHz

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Le	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	58.31	PK	74	15.69	52.61	31	6.5	31.8	5.7
4804.00	43.20	AV	54	10.80	37.50	31	6.5	31.8	5.7
7206.00	54.47	PK	74	19.53	41.82	36	8.15	31.5	12.65
7206.00	44.97	AV	54	9.03	32.32	36	8.15	31.5	12.65

Frequency(MHz):			24	2402 Polarity:		VERTICAL			
Frequency (MHz)	Emis Le		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	58.37	PK	74	15.63	52.67	31	6.5	31.8	5.7
4804.00	43.72	AV	54	10.28	38.02	31	6.5	31.8	5.7
7206.00	53.67	PK	74	20.33	41.02	36	8.15	31.5	12.65
7206.00	43.65	AV	54	10.35	31.00	36	8.15	31.5	12.65

Frequency(MHz):			24	40	Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Le (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	60.25	PK	74	13.75	54.09	31.2	6.61	31.65	6.16
4880.00	44.78	AV	54	9.22	38.62	31.2	6.61	31.65	6.16
7320.00	53.52	PK	74	20.48	40.57	36.2	8.23	31.48	12.95
7320.00	44.86	AV	54	9.14	31.91	36.2	8.23	31.48	12.95



Frequency(MHz):			2440 Polarity:		VERTICAL				
Frequency (MHz)	Level		Limit (dBuV/m)	Margin (dB)	Raw Value	Antenna Factor	Cable Factor	Pre- amplifier	Correction Factor
4880.00	61.35	PK	74	12.65	(dBuV) 55.19	(dB/m) 31.2	(dB) 6.61	(dB) 31.65	(dB/m) 6.16
4880.00	42.76	AV	54	11.24	36.60	31.2	6.61	31.65	6.16
7320.00	52.53	PK	74	21.47	39.58	36.2	8.23	31.48	12.95
7320.00	45.07	AV	54	8.93	32.12	36.2	8.23	31.48	12.95

Frequency(MHz):			2480		Pola	arity:	HORIZONTAL		
Frequency (MHz)	Emis Le		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	62.50	PK	74	11.50	55.84	31.4	6.76	31.5	6.66
4960.00	41.88	AV	54	12.12	35.22	31.4	6.76	31.5	6.66
7440.00	53.88	PK	74	20.12	40.58	36.4	8.35	31.45	13.3
7440.00	45.90	AV	54	8.10	32.60	36.4	8.35	31.45	13.3

Frequency(MHz):			2480 Polarity:		VERTICAL				
Frequency (MHz)	Le	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	63.39	PK	74	10.61	56.73	31.4	6.76	31.5	6.66
4960.00	42.24	AV	54	11.76	35.58	31.4	6.76	31.5	6.66
7440.00	54.30	PK	74	19.70	41.00	36.4	8.35	31.45	13.3
7440.00	45.28	AV	54	8.72	31.98	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.



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 4.3 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.

