

Shenzhen HTT Technology Co., Ltd.

Report No.: HTT202404268F04

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 Zhu	Date:	Apr. 22, 2024	
	Reviewer			
Approved By :	Kein Yang HT	Date:	Apr. 22, 2024	
	Authorized Signature	\\$_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		



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3. Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	N/A
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
6dB Bandwidth	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013 and RSS-Gen

Pass: The EUT complies with the essential requirements in the standard.

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 unce	rtainty is for coverage factor of k	=2 and a level of confidence of 9	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

Product Name:	Motorcycle Smart Riding Systen
Model No.:	XR-2
Series model:	MFP0127, XR-2 PRO, SR6 SE, SR6 LTE, SR6
Test sample(s) ID:	HTT202404268-1(Engineer sample) HTT202404268-2(Normal sample)
Channel numbers:	802.11n(HT20): 11
Channel separation:	5MHz
Modulation technology:	802.11n(HT20): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Chip Antenna
Antenna gain:	5.5 dBi
Power supply:	DC 12V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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:

Toot channel	Frequency (MHz)
Test channel	802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz



4.2. Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, 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.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11n(HT20)
Data rate	6.5Mbps

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 accredited 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

140000	Tool Equipment	Manufacturer	Madal Na	Inventory	Cal Data	Cal Dua data
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date



				Керс	ort No.: H11202	1012001 01
				No.	(mm-dd-yy)	(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



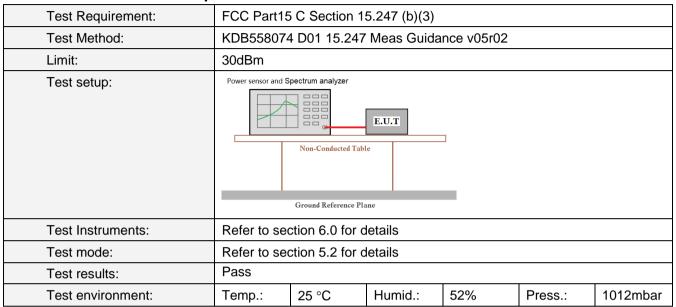
6. Test results and Measurement Data

6.1. Conducted Emissions

6.1. Conducted Emission	ა								
Test Requirement:	FCC Part15 C Section 15.207	7							
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	150KHz to 30MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9KHz, VBW=30KHz, S	RBW=9KHz, VBW=30KHz, Sweep time=auto							
Limit:	Francisco de (MILE)	Limit	(dBuV)						
	Frequency range (MHZ)	Frequency range (MHz) Quasi-peak Average							
	0.15-0.5	66 to 56*		o 46*					
	0.5-5	56		16					
	5-30	60	5	50					
Test setup:	* Decreases with the logarithm								
Test procedure:	Remark 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 500hm/50uH coupling impedence Stabilization 500hm/50uH coupling impedence are LISN that provides a 500hm termination. (Please refer to photographs). 3. Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.10:	Filter — Ac p EMI Receiver are connected to the n network (L.I.S.N.). edance for the measure also connected to the m/50uH coupling improve the block diagram of the maximum emist all of the interface of	main power This provide uring equipm e main powe edance with of the test se m conducted sion, the rela ables must b	s a nent. er through a 500hm etup and d ative pe changed					
Test Instruments:	Refer to section 6.0 for details	5							
Test mode:	Refer to section 5.2 for details	S							
Test environment:	Temp.: 25 °C Hur	nid.: 52%	Press.:	1012mbar					
Test voltage:	AC 120V, 60Hz	•	ı	1					
Test results:	N/A								



6.2. Conducted Peak Output Power

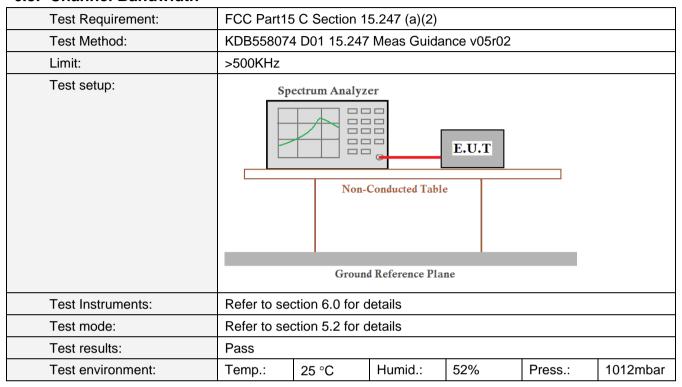


Measurement Data

Test CH	Peak Output Power (dBm) 802.11n(HT20)	Limit(dBm)	Result
Lowest	13.63		
Middle	13.04	30.00	Pass
Highest	12.68		



6.3. Channel Bandwidth



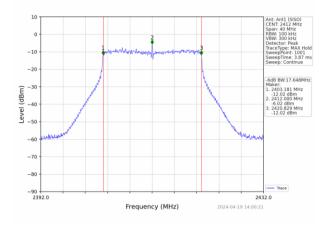
Measurement Data

Test CH	Channel Bandwidth (MHz) 802.11n(HT20)	Limit(KHz)	Result
Lowest	17.648		
Middle	17.641	>500	Pass
Highest	17.636		

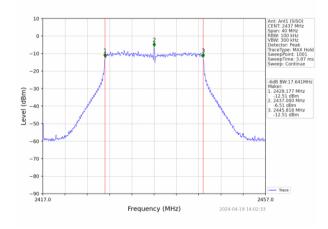


Test plot as follows:

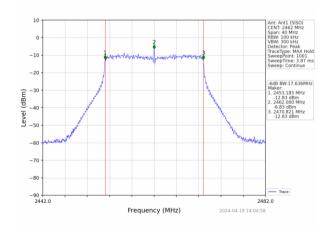
802.11n(HT20)



Lowest channel



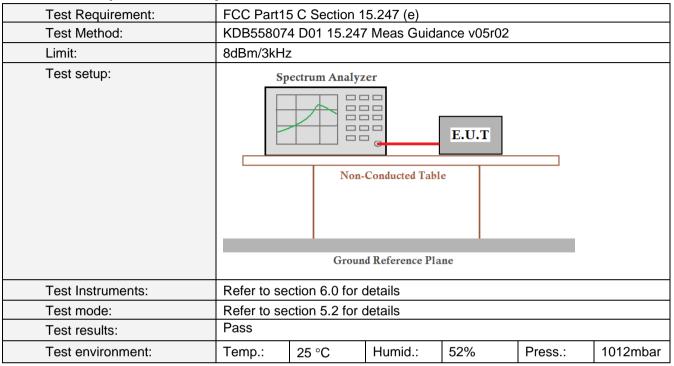
Middle channel



Highest channel



6.4. Power Spectral Density



Measurement Data

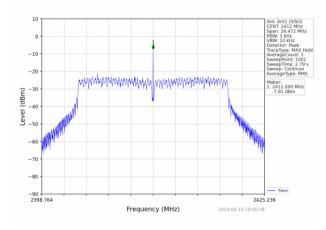
Test CH	Power Spectral Density (dBm/3kHz) 802.11n(HT20)	Limit (dBm/3kHz)	Result
Lowest	-7.81		
Middle	-8.15	8.00	Pass
Highest	-8.44		

Remark: We have tested all mode at high, middle and low channel, and recorded worst case at middle

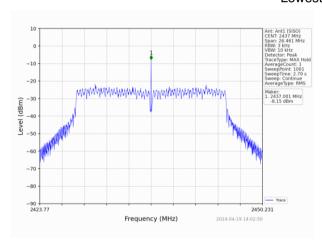


Test plot as follows:

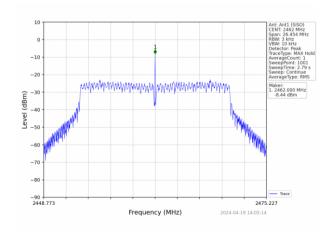
802.11n(HT20)



Lowest channel



Middle channel



Highest channel



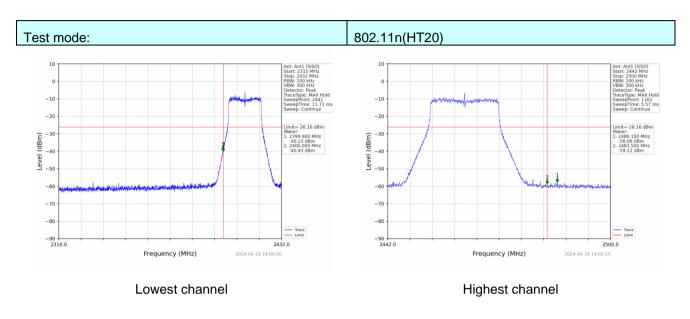
6.5. Band Edge

6.5.1. Conducted Emission Method

John Conadotta Emilionion Moniea								
Test Requirement:	FCC Part15	FCC Part15 C Section 15.247 (d)						
Test Method:	KDB558074	KDB558074 D01 15.247 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:	Spec	Spectrum Analyzer E.U.T Non-Conducted Table						
Test Instruments:	Refer to see	ction 6.0 for o	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:





6.5.2. Radiated Emission Method

	1111331011 1416								
Test Requirement:	FCC Part15	C Section 1	5.209 a	and 15.2	:05				
Test Method:	ANSI C63.1	0: 2013							
Test Frequency Range:		estrict bands data was sho		tested, c	only the wo	orst band's (2	2310MHz to		
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency Detector RBW VBW Rema								
	Above 1G	Hz Pea		1MHz			k Value		
		Pea		1MHz			ge Value		
Limit:	Fre	equency	L		3uV/m @3m 54.00		mark ge Value		
	Abo	ve 1GHz			74.00		k Value		
Test setup:	Tum Table+ Clm 4m >+ Clm .								
Test Procedure:	4 The FUT	٠				la 4.5 matan			
rost i roscuule.	 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, quasi-peak or 								
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				1		T		
Test environment:	Temp.:	25 °C	Humid	d.: 5	52%	Press.:	1012mbar		



Measurement Data

Report No.: HTT202404268F04

Freque	ncy(MHz)	:	24	12	Pola	arity:		HORIZONT	AL
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)
2390.00	61.96	PK	74	12.04	63.35	27.2	4.31	32.9	-1.39
2390.00	43.91	AV	54	10.09	45.30	27.2	4.31	32.9	-1.39
Freque	ncy(MHz)	:	24	12	Pola	rity:		VERTICA	.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	59.68	PK	74	14.32	61.07	27.2	4.31	32.9	-1.39
2390.00	45.47	AV	54	8.53	46.86	27.2	4.31	32.9	-1.39
Freque	ncy(MHz)	:	24	62	Polarity:			HORIZONT	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	56.75	PK	74	17.25	57.68	27.4	4.47	32.8	-0.93
2483.50	44.82	AV	54	9.18	45.75	27.4	4.47	32.8	-0.93
Freque	ncy(MHz)	:	24	62	Pola	rity:		VERTICA	.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)
2483.50	55.96	PK	74	18.04	56.89	27.4	4.47	32.8	-0.93
2483.50	43.79	AV	54	10.21	44.72	27.4	4.47	32.8	-0.93



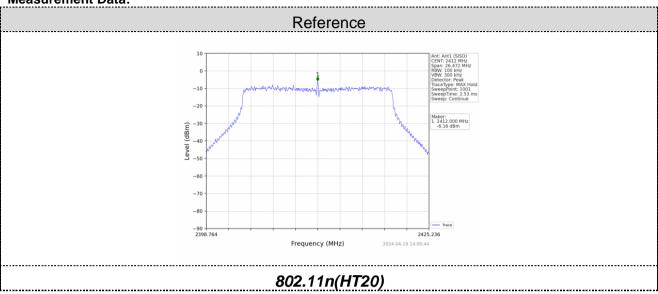
6.6. Spurious Emission

6.6.1. Conducted Emission Method

Test Requirement:	FCC Part15	FCC Part15 C Section 15.247 (d)							
Test Method:	KDB558074	KDB558074 D01 15.247 Meas Guidance v05r02							
Limit:	spectrum ir is produced the 100 kH the desired	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								
Test Instruments:	Refer to se	ction 6.0 for c	letails						
Test mode:	Refer to section 5.2 for details								
Test results:	Pass	Pass							
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar			



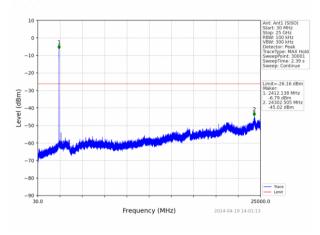
Measurement Data:





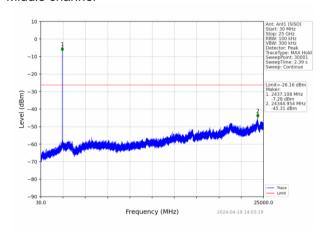
802.11n(HT20)

Lowest channel



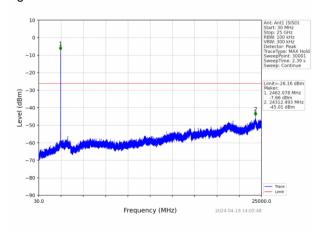
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel



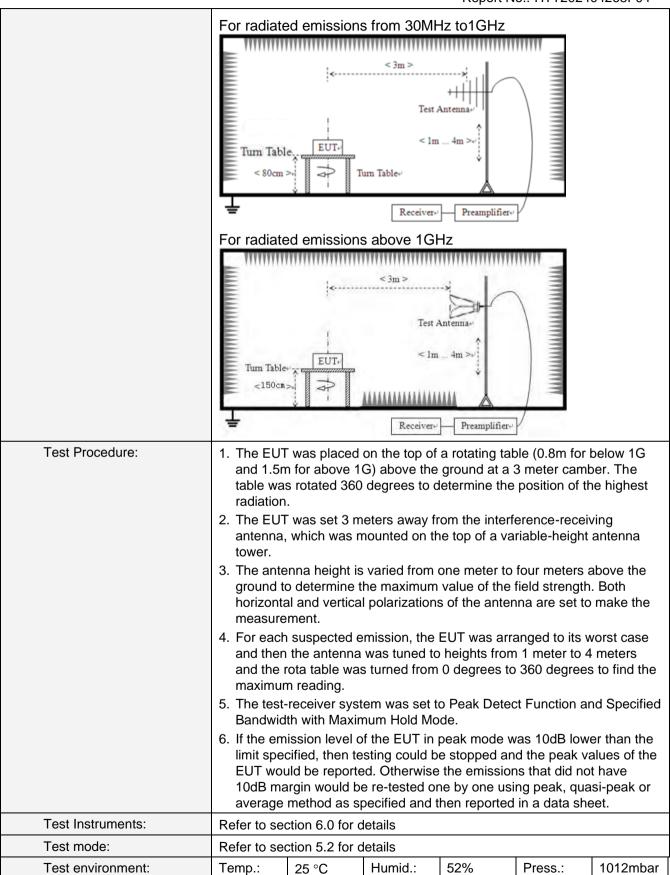
30MHz~25GHz



6.6.2. Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency		Detector	RBV	٧	VBW	'	Value	
	9KHz-150KHz		ıasi-peak	200H		600H	Z	Quasi-peak	
	150KHz-30MHz	Qι	ıasi-peak	9KH	lz	30KH	Z	Quasi-peak	
	30MHz-1GHz	Qι	ıasi-peak	120K	Hz	300KH	lz	Quasi-peak	
	Above 1GHz		Peak	1M⊦	lz	3MHz	<u> </u>	Peak	
	Above 10112		Peak	1MH	lz	10Hz	<u>.</u>	Average	
Limit:	Frequency		Limit (u\	//m)	V	alue	N	Measurement Distance	
	0.009MHz-0.490M	lHz	2400/F(k	(Hz)		QP		300m	
	0.490MHz-1.705M	lHz	24000/F(KHz)		QP		30m	
	1.705MHz-30MH	lz	30			QP		30m 30m	
	30MHz-88MHz		100	00		QP			
	88MHz-216MHz		150			QP QP		3m	
	216MHz-960MH	Z	200						
	960MHz-1GHz		500			QP	P 3m		
	Above 1GHz		500		Av	erage			
	Above 10112		5000		Peak				
Test setup:	For radiated emiss	sions	from 9kH	z to 30	МН	7			
	**********	77777	7777777777777	******	77777	******			
	Tum Table EUT		< 3m > Test A um Table»	ntenna lm					







Test voltage:	AC 120V, 60Hz
Test results:	Pass

Remarks:

- 1. Only the worst case Main Antenna test data.
- 2.Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

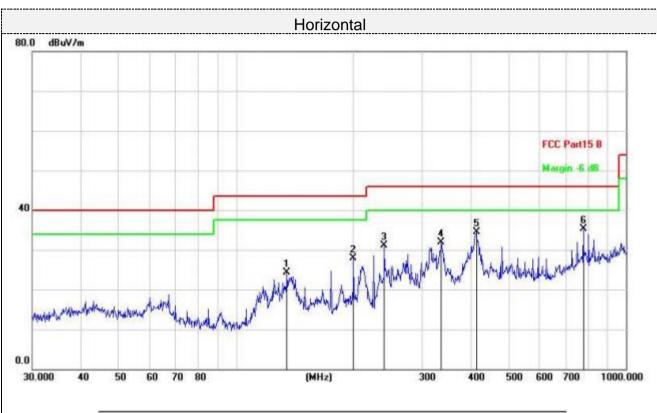
■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



■ Below 1GHz

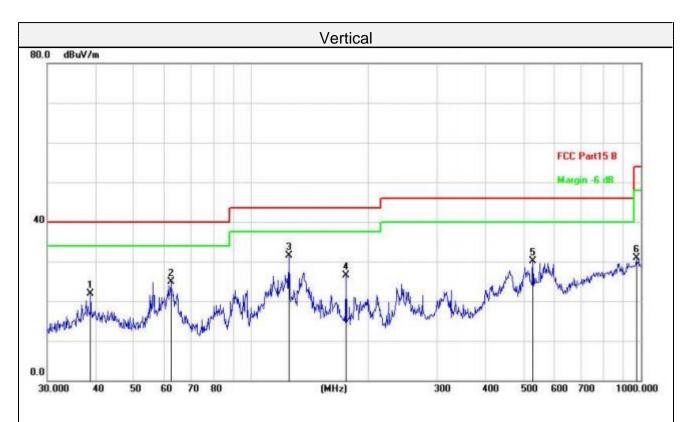
Pre-scan all test modes, found worst case at 802.11b 2437MHz, and so only show the test result of 802.11b 2437MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		135.0319	36.60	-12.20	24.40	43.50	-19.10	QP
2		199.9856	41.33	-13.39	27.94	43.50	-15.56	QP
3		239.9874	42.95	-11.83	31.12	46.00	-14.88	QP
4		336.0352	42.27	-10.45	31.82	46.00	-14.18	QP
5		413.2706	42.12	-7.54	34.58	46.00	-11.42	QP
6	*	776.8778	35.44	-0.17	35.27	46.00	-10.73	QP

Final Level =Receiver Read level + Correct Factor





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		38.7518	32.31	-10.42	21.89	40.00	-18.11	QP
2		62.2128	36.99	-11.99	25.00	40.00	-15.00	QP
3	*	125.0066	44.27	-12.78	31.49	43.50	-12.01	QP
4		175.0368	38.33	-11.88	26.45	43.50	-17.05	QP
5		528.2458	34.84	-4.68	30.16	46.00	-15.84	QP
6		972.3374	27.45	3.38	30.83	54.00	-23.17	QP

Final Level =Receiver Read level + Correct Factor



■ Above 1-25GHz

802.1<u>1n (H20):</u>

Frequency(MHz):			2412		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)
4824.00	60.13	PK	74	13.87	54.31	31.05	6.52	31.75	5.82
4824.00	43.52	AV	54	10.48	37.70	31.05	6.52	31.75	5.82
7236.00	56.33	PK	74	17.67	43.52	36.08	8.18	31.45	12.81
7236.00	46.80	AV	54	7.20	33.99	36.08	8.18	31.45	12.81

Frequency(MHz):			2412		Polarity:		VERTICAL		
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)
4824.00	60.36	PK	74	13.64	54.54	31.05	6.52	31.75	5.82
4824.00	43.37	AV	54	10.63	37.55	31.05	6.52	31.75	5.82
7236.00	56.82	PK	74	17.18	44.01	36.08	8.18	31.45	12.81
7236.00	45.72	AV	54	8.28	32.91	36.08	8.18	31.45	12.81

Frequency(MHz):			2437		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)
4874.00	62.35	PK	74	11.65	55.91	31.25	6.7	31.51	6.44
4874.00	45.86	AV	54	8.14	39.42	31.25	6.7	31.51	6.44
7311.00	56.28	PK	74	17.72	43.14	36.25	8.31	31.42	13.14
7311.00	47.09	AV	54	6.91	33.95	36.25	8.31	31.42	13.14



Frequency(MHz):			2437		Polarity:		VERTICAL		
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)
4874.00	60.96	PK	74	13.04	54.52	31.25	6.7	31.51	6.44
4874.00	44.75	AV	54	9.25	38.31	31.25	6.7	31.51	6.44
7311.00	55.70	PK	74	18.30	42.56	36.25	8.31	31.42	13.14
7311.00	45.81	AV	54	8.19	32.67	36.25	8.31	31.42	13.14

Frequency(MHz):			2462		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)
4924.00	59.73	PK	74	14.27	52.86	31.52	6.8	31.45	6.87
4924.00	46.41	AV	54	7.59	39.54	31.52	6.8	31.45	6.87
7386.00	55.58	PK	74	18.42	42.02	36.51	8.4	31.35	13.56
7386.00	46.96	AV	54	7.04	33.40	36.51	8.4	31.35	13.56

Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu)	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4924.00	59.92	PK	74	14.08	53.05	31.52	6.8	31.45	6.87
4924.00	44.66	AV	54	9.34	37.79	31.52	6.8	31.45	6.87
7386.00	56.07	PK	74	17.93	42.51	36.51	8.4	31.35	13.56
7386.00	46.92	AV	54	7.08	33.36	36.51	8.4	31.35	13.56

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 5.5 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.

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