

Shenzhen HTT Technology Co., Ltd.

Report No.: HTT202307443F02

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: Moto navigator

Model No.: AIO-5 Lite

Series model: AIO-5, AIO-5 PRO, AIO-5 Play

Trade Mark: CHIGEE

FCC ID: 2A95C-AIO

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: Jul.20,2023

Date of Test: Jul.20,2023~Jul.28,2023

Date of report issued: Jul.28.2023

Test Result: PASS *

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



1. Version

Version No.	Date	Description
00	Jul.28,2023	Original

Tested/ Prepared By	Heber He Date:	Jul.28,2023
	Project Engineer	
Check By:	Bruce 2hu Date:	Jul.28,2023
	Reviewer	
Approved By :	Kein Yang HTT Date:	Jul.28,2023
	Authorized Signature	



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3. Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	N/A
26dB Bandwidth	FCC §15.407(a)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Undesirable Emission	FCC Part 15.407(b)	PASS
Radiated Emission	FCC Part 15.407(b)/15.205/15.209	PASS
Frequency Stability	15.407(g)	PASS

Remark: 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	1~6GHz	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 unc	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:	Moto navigator	Moto navigator					
Model No.:	AIO-5 Lite	AIO-5 Lite					
Series model:	AIO-5, AIO-5 PRO	AIO-5, AIO-5 PRO, AIO-5 Play					
Test sample(s) ID:	HTT202307443-1(Engineer sample) HTT202307443-2(Normal sample)						
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels			
	U-NII Band I	IEEE 802.11ac HT40	5190-5230	2			
Modulation technology:	OFDM						
Antenna Type:	Internal Antenna						
Antenna gain:	1.48 dBi						
Power Supply:	DC 12V						



Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz

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	Data rate
802.11ac(HT40)	13.5 Mbps

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

Shenzhen HTT Technology Co.,Ltd.

Tel: 0755-23595200 Fax: 0755-23595201



4.8. Additional Instructions

	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

Shenzhen HTT Technology Co.,Ltd.

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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

Test Requirement:		5 C Section 15.2	207				
Test Method:	ANSI C63.	ANSI C63.10:2013					
Test Frequency Range:	150KHz to	30MHz					
Class / Severity:	Class B						
Receiver setup:	RBW=9KH	z, VBW=30KHz					
Limit:	Frequer	Frequency range (MHz)			t (dBuV)		
	·		Qt	ıasi-peak		erage	
		0.15-0.5	- 6	66 to 56*		to 46*	
		0.5-5		56		46	
	* Doorgood	5-30 s with the logarit	thm of the	60		50	
Test setup:	Decrease	S With the logarit Reference Pla		rrequency.			
Test procedure:	LISN AUX Equipment E.U.T EMI Receiver 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					· through a	
	line impo 500hm/5 2. The peri LISN that terminat photogra 3. Both sid interfere positions	edance stabilizat 50uH coupling im pheral devices a at provides a 50c ion. (Please refe	tion networn need ance also cook ohm/50uH er to the bloomer to the bloomer to the mand all of	rk (L.I.S.N.). for the meas nnected to the coupling implock diagram d for maximulaximum emis ne interface of	This provide uring equipme main powedance with of the test some conducters in the releasion, the releasion must	es a enent. er through a solution of the solut	
Test Instruments:	Refer to se	ction 6.0 for deta	ails				
Test mode:	Refer to se	ction 5.2 for deta	ails				
	Temp.:	25 °C H	łumid.:	52%	Press.:	1012mbar	
Test environment:	10111011	20 0				1012111041	
Test environment: Test voltage:	AC 120V, 6					1012111041	



6.2. Maximum Conducted Output Power

6.2. Maximum Conducted	Output Fower					
Test Requirement:	FCC Part15 E Section 15.407					
Test Method:	KDB 789033 D02 Ger	neral U-NII Test Procedures New Rules v02r01				
Limit:	Frequency band (MHz)	Limit				
	5150-5250	≤1W(30dBm) for master device ≤250mW(23.98dBm) for client device				
	5250-5350	≤250mW(23.98dBm) for client device or 11dBm+10logB*				
	5470-5725	≤250mW(23.98dBm) for client device or 11dBm+10logB*				
	The maximum condu	s the 26dB emission bandwidth in MHz. ucted output power must be measured over any stransmission using instrumentation calibrated in ivalent voltage.				
Test setup:						
Test procedure:	(i) Measurement meter with a trend conditions list a) The EUT is with a constant b) At all times transmitting a c) The integra repetition perifive. (ii) If the transmitt duty cycle, x, section B). (iii) Measure the ais an average (iv) Adjust the meter with a transmitt duty cycle.	an RF average power meter Is may be performed using a wideband RF power hermocouple detector or equivalent if all of the ed below are satisfied Is configured to transmit continuously or to transmit at duty cycle. Is when the EUT is transmitting, it must be to its maximum power control level. It is maximum power meter exceeds the od of the transmitted signal by at least a factor of ter does not transmit continuously, measure the of the transmitter output signal as described in average power of the transmitter. This measurement over both the on and off periods of the transmitter. It is assurement in dBm by adding 10 log(1/x) where x is (e.g., 10log(1/0.25) if the duty cycle is 25 percent).				
Test Instruments:	Refer to section 6 for					
Test mode:	Refer to section 5.2 fo	or details				
Test results:	Pass					



Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
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Measurement Data

Test Mode	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
000 11 oo UT40	5190	-3.90	23.98	PASS
802.11ac HT40	5230	-3.10	23.98	PASS



6.3. Emission Bandwidth

Test Requirement:	FCC Part15 E Section 15.407					
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01					
Limit:	N/A					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.					
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

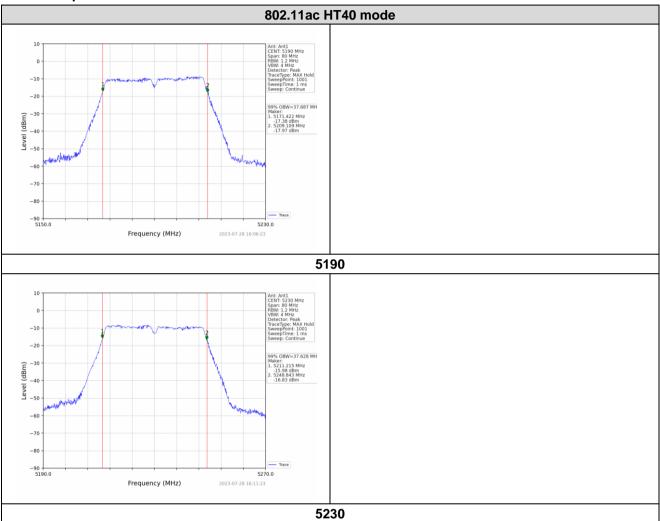
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	l
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Measurement Data

CH.	Frequency	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
No.	(MHz)	802.11ac HT40	802.11ac HT40
38	5190	37.687	43.711
46	5230	37.628	44.426

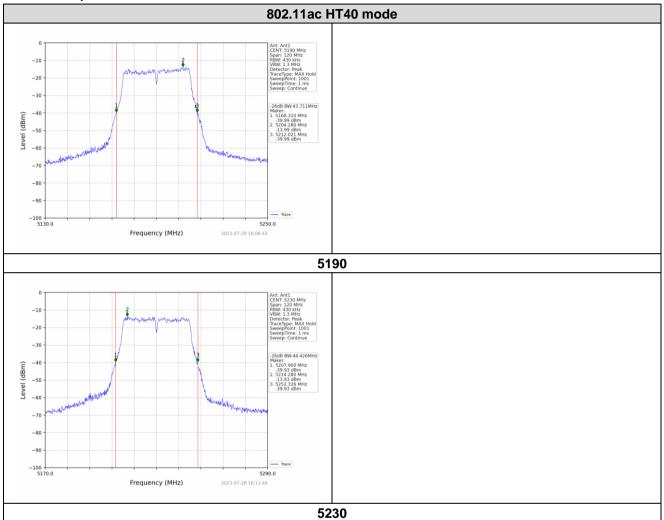


99% Occupied Bandwidth:





26dB Occupied Bandwidth:





6.4. Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.40)7				
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01					
Limit:	Frequency band (MHz)	Limit				
	5150-5250	≤17dBm in 1MHz for master device				
		≤11dBm in 1MHz for client device				
	5250-5350	≤11dBm in 1MHz for client device				
	5470-5725	≤11dBm in 1MHz for client device				
		ewer spectral density is measured as a ect connection of a calibrated test instrument t.				
Test setup:		E.U.T ducted Table				
Test procedure:	being tested by following maximum conducted ou receiver: select the appralternatives to each) and labeled, "Compute power 2) Use the peak search fur spectrum. 3) Make the following adjust applicable: a) If Method SA-2 or SA where x is the duty cycle b) If Method SA-3 Altern used in step E)2)g)(viii),	er spectrum for the EUT operating mode g the instructions in section E)2) for measuring the instructions in section E)2) for measuring the instructions in section E)2) for measuring the instruction on EMI operate test method (SA-1, SA-2, SA-3, or disply it up to, but not including, the step er". In the instrument to find the peak of the standard to the peak value of the spectrum, if example in the instruction on the instruction of the spectrum, if example in the instruction of the spectrum. In the instruction is section E)2) for measuring in the instruction in the instruction EMI operation in the instruction E)2) for measuring instruction E)2) for measuring in the instruction E)2) for measuring instruction E)2) for measur				
Test Instruments:	Refer to section 6 for details					
Test mode:	Refer to section 5.2 for deta	ils				
Test results:	Pass					

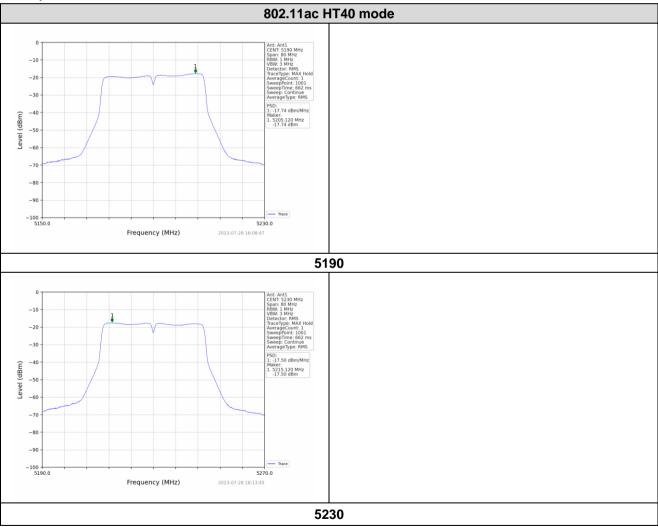


Test environment: Temp.: 25 °C Humid.: 52% Press.:
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Measurement Data

Test Mode	Frequency (MHz)	Total PSD Power(dBm/MHz)	Limits (dBm/MHz)	Result
002 1100 UT40	5190	-17.74	11.0	PASS
802.11ac HT40	5230	-17.50	11.0	PASS

Test plots as followed:

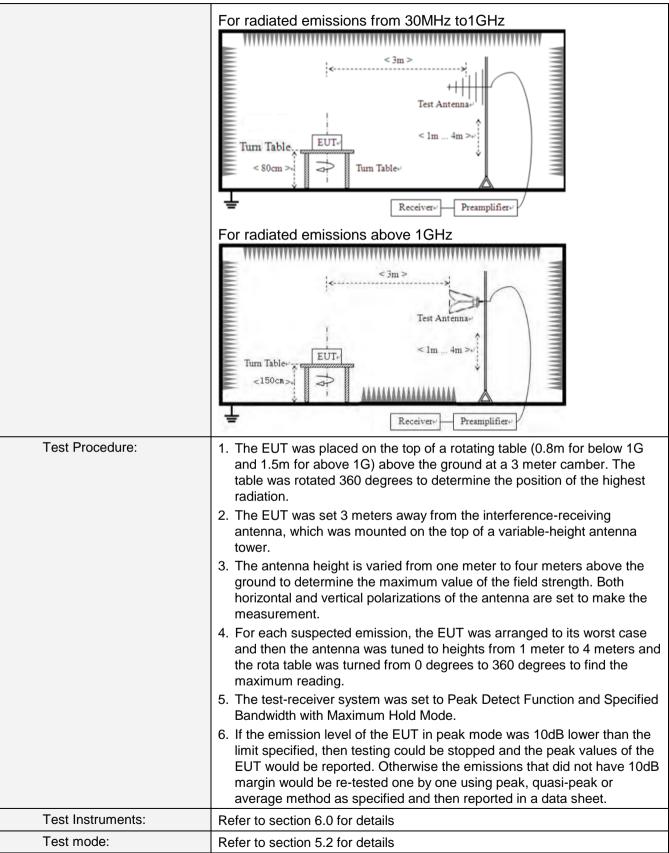




6.5. Radiated Emission

	· • • • • • • • • • • • • • • • • • • •									
Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013									
Test Frequency Range	e: 9kHz to 25GHz	9kHz to 25GHz								
Test site:	Measurement Distan	Measurement Distance: 3m								
Receiver setup:	Frequency		Detector	RB∖	N	VBW	'	Value		
	9KHz-150KHz	Qι	ıasi-peak	200H	Ηz	600Hz	z	Quasi-peak		
	150KHz-30MHz	Qι	ıasi-peak	9KF	łz	30KH:	z	Quasi-peak		
	30MHz-1GHz	Qι	ıasi-peak	120K	Hz	300KH	lz	Quasi-peak		
	Above 1GHz		Peak	1MF	Ιz	3MHz	<u>z</u>	Peak		
	Above IGHZ		Peak	1MF	łz	10Hz	<u>.</u>	Average		
Limit:	Frequency		Limit (u\	//m)	٧	alue	M	leasurement Distance		
	0.009MHz-0.490M	Hz	2400/F(k	(Hz)		QP		300m		
	0.490MHz-1.705M	Hz	24000/F(KHz)			QP		30m		
	1.705MHz-30MH	Z	30		QP		30m			
	30MHz-88MHz		100		QP					
	88MHz-216MHz		150		QP					
	216MHz-960MH	z 200				QP		3m		
	960MHz-1GHz	960MHz-1GHz			QP			OIII		
	Above 1GHz	Above 1GHz			Average					
	715070 10112		5000)	Peak					
Test setup:	For radiated emiss	ions	from 9kH	z to 30	MH	Z				
	**************	****	*******	******	11111	*******				
	Turn Table EUT Im Table Im Receiver									





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

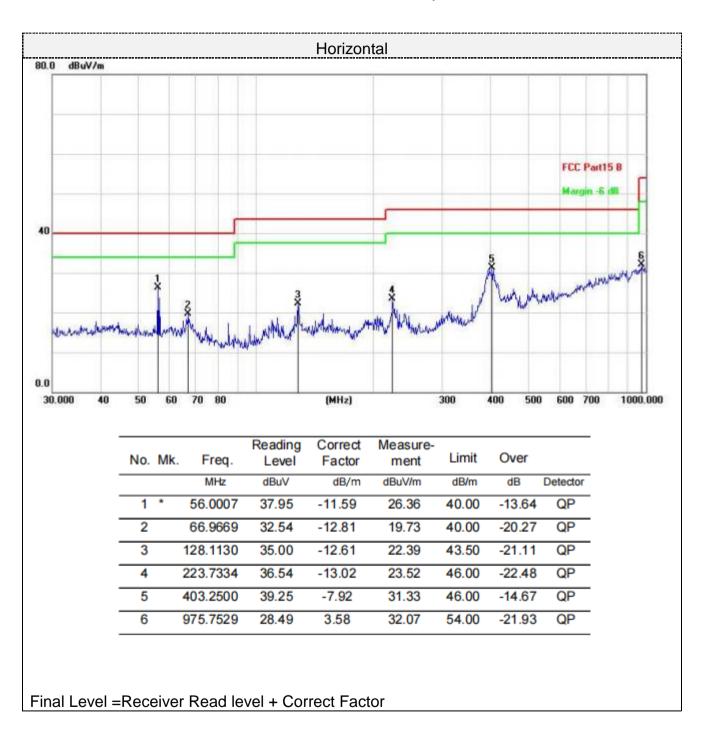
■ 9kHz~30MHz

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.

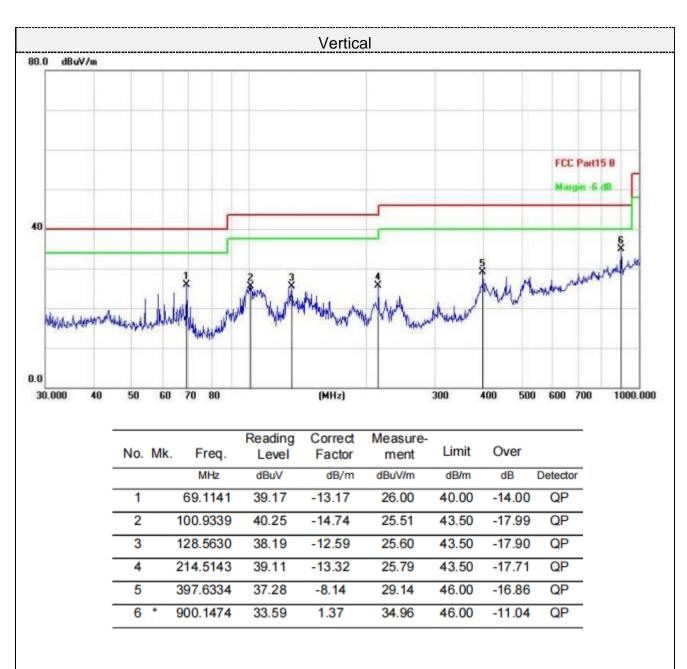


■ Below 1GHz

Pre-scan all test modes, found worst case at 802.11ac 5190MHz, and so only show the test result of 802.11ac 5190MHz







Final Level = Receiver Read level + Correct Factor



■ Above 1-40GHz

U-NII 1 & 802.11ac (above 1GHz)

			'	O 1411 1 C	X 002.11	ac (abov	0 10112	,			
Tested	Frequency	Emission	Detector	ANT	Limit	Margin	Raw	Antenna	Cable	Pre	Correction
Channel	(MHz)	Level	Mode	Pol	(dBuV/m)	(dB)	Value	Factor	Factor	amplifier	Factor
		(dBuV/m)					(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
	5150.00	55.01	PK	Н	68.20	13.19	46.67	31.4	8.44	31.5	8.34
38.00	5150.00	44.23	AV	Н	54.00	9.77	35.89	31.4	8.44	31.5	8.34
(5190MHz)	10360.00	53.67	PK	Н	68.20	14.53	38.83	38.21	11.59	38.26	11.54
46.00	5350.50	45.96	PK	Н	68.20	22.24	37.62	31.4	8.44	31.5	8.34
(5230MHz)	10480.00	54.13	PK	Н	68.20	14.07	42.99	38.21	11.19	38.26	11.14

Tested	Frequency	Emission	Detector	ANT	Limit	Margin	Raw	Antenna	Cable	Pre	Correction
Channel	(MHz)	Level	Mode	Pol	(dBuV/m)	(dB)	Value	Factor	Factor	amplifier	Factor
		(dBuV/m)					(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
	5150.00	53.16	PK	V	68.20	15.04	44.82	31.4	8.44	31.5	8.34
38.00	5150.00	45.29	AV	V	54.00	8.71	36.95	31.4	8.44	31.5	8.34
(5190MHz)	10360.00	52.69	PK	V	68.20	15.51	41.15	38.21	11.59	38.26	11.54
	-	-	ı	-		-			-		
46.00	5350.50	53.48	PK	V	68.20	14.72	45.14	31.4	8.44	31.5	8.34
(5230MHz)	10480.00	52.09	PK	V	68.20	16.11	40.95	38.21	11.19	38.26	11.14

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.



6.6. Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)						
Test Method:	ANSI C63.10:2013, FCC Part 2.1055						
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified						
Test Procedure:	2003; tested to 2.1055 for compliance						
Test setup:	Spectrum analyzer Att. Note: Measurement setup for testing on A	Temperature Chamber EUT Variable Power Supply Intenna connector					
Test Instruments:	Refer to section 6 for details	Refer to section 6 for details					
Test mode:	Test mode: Refer to section 5.2 for details						
Test results:	Pass						

Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
1 OOL OHVII OHII IOHII.	. op	20 0	i rannan	0270		1012111001

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.



ANT 1:

Reference Frequency: 802.11ac channel=38 frequency=5190MHz							
Mal(a) = (M)	Temperature (°C)	Frequer	ncy error		Result		
Voltage (V)	remperature (C)	Hz	ppm	Limit (ppm)			
	-30	81.26	0.01566		Pass		
	-20	84.96	0.01637				
	-10	71.25	0.01373				
	0	61.33	0.01182				
AC120	10	69.58	0.01341	Within the band of operation			
	20	91.30	0.01759				
	30	56.19	0.01083				
	40	63.71	0.01228				
	50	68.15	0.01313				
AC138	25	67.55	0.01302				
AC102	25	74.67	0.01439				



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 1.48 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-----