

Global United Technology Services Co., Ltd.

Report No.: GTS2024060362F04

TEST REPORT

Applicant: Arashi Vision Inc.

Address of Applicant: 11th Floor, Building 2, Jinlitong Financial Center, Bao'an

District, Shenzhen, Guangdong, China

Arashi Vision Inc. Manufacturer/Factory:

Address of 11th Floor, Building 2, Jinlitong Financial Center, Bao'an

District, Shenzhen, Guangdong, China Manufacturer/Factory:

Equipment Under Test (EUT)

Camera **Product Name:**

CINSBBGA, CINSBBGY (where Y would be any English Model No.:

letters or blank, different packing method, model designations

on the marking plate for different commercial purpose)

Insta360 Trade Mark:

2AWWH-CINSBBGA FCC ID:

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

Date of sample receipt: June 26, 2024

Date of Test: June 27, 2024-July 23, 2024

Date of report issue: July 23, 2024

PASS * Test Result:

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

Authorized Signature:



This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute Page 1 of 33 and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	July 23, 2024	Original

Prepared By:	Date:	July 23, 2024
	Project Engineer	
	114	
Check By:	Date:	July 23, 2024

Reviewer



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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Emission Bandwidth	FCC part 15.407	PASS
Maximum Conducted Output Power	FCC part 15.407(a)(1)	PASS
Power Spectral Density	FCC part 15.407(a)(1)	PASS
Undesirable Emission	FCC part 15.407(b), 15.205/15.209	PASS
Radiated Emission	FCC part 15.205/15.209	PASS
Band Edge	FCC part 15.407(b)(1)	PASS
Frequency Stability	FCC part 15.407(g)	PASS

Remark:

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of ka	=2 and a level of confidence of 9	95%.



5 General Information

5.1 General Description of EUT

Product Name:	Camera	Camera					
Model No.:	CINSBBGA, CINSBBGY (where Y would be any English letters or blank, different packing method, model designations on the marking plate for different commercial purpose)						
Test Model No.:	CINSBBGA						
Remark:All above models a	are identical in th	ne same PCB layout, interior	r structure and e	lectrical circuits.			
The only difference is mode	el name for com	mercial purpose.					
Test sample(s) ID:	GTS20240603	62-1					
Sample(s) Status:	Engineer samp	ole					
S/N:	N/A	N/A					
Operation Frequency:	Band	Band Mode		Number of channels			
			Range(MHz)				
	U-NII Band	IEEE 802.11a	5180-5240	4			
	U-NII Band	IEEE 802.11a IEEE 802.11n/ac 20MHz	5180-5240 5180-5240	4			
	U-NII Band	IEEE 802.11n/ac 20MHz IEEE 802.11n/ac 40MHz	5180-5240 5190-5230				
	U-NII Band I	IEEE 802.11n/ac 20MHz	5180-5240	4			
Modulation technology:	U-NII Band I OFDM	IEEE 802.11n/ac 20MHz IEEE 802.11n/ac 40MHz	5180-5240 5190-5230	4			
Modulation technology: Antenna Type:	1	IEEE 802.11n/ac 20MHz IEEE 802.11n/ac 40MHz IEEE 802.11ac 80MHz	5180-5240 5190-5230	4			
	OFDM	IEEE 802.11n/ac 20MHz IEEE 802.11n/ac 40MHz IEEE 802.11ac 80MHz	5180-5240 5190-5230	4			
Antenna Type:	OFDM Internal Antenr 1.6dBi	IEEE 802.11n/ac 20MHz IEEE 802.11n/ac 40MHz IEEE 802.11ac 80MHz	5180-5240 5190-5230 5210	4			
Antenna Type: Antenna gain:	OFDM Internal Antenr 1.6dBi DC 3.89V, 180	IEEE 802.11n/ac 20MHz IEEE 802.11n/ac 40MHz IEEE 802.11ac 80MHz na	5180-5240 5190-5230 5210	4			

Remark

- 1. Antenna gain information provided by the customer
- 2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

Channel list for 802.11a/n/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz

Channel list for 802.11n(HT40)/ac(HT40)						
Channel	Frequency	Channel	Frequency			
38	5190MHz	46	5230MHz			

Channel list for 802.11ac(HT80)	
Channel	Frequency
42	5210MHz



5.2 Test mode

Ţ	Transmitting mode Keep the EUT in transmitting with modulation						
	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	Mode	Data rate			
802.11a/n/ac(HT20) 6/6.5 Mbps 802.11ac(HT80) 29.3 Mbps							
	802.11n/ac(HT40)	13.5 Mbps					

5.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC —Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• ISED—Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.5 Description of Support Units

None.

5.6 Deviation from Standards

None.

5.7 Additional Instructions

Test Software	Special test software provided by manufacturer
Power level setup	Default



6 Test Instruments list

Radia	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	June 22, 2024	June 21, 2027	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 11, 2024	April 10, 2025	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 11, 2024	April 10, 2025	
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 13, 2023	Nov.12, 2024	
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 11, 2024	April 10, 2025	
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 11, 2024	April 10, 2025	
11	Horn Antenna (18- 26.5GHz)	1	UG-598A/U	GTS664	Oct. 29, 2023	Oct. 28, 2024	
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 29, 2023	Oct. 28, 2024	
13	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 12, 2024	March 11, 2025	
14	Amplifier	1	LNA-1000-30S	GTS650	April 11, 2024	April 10, 2025	
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 08, 2023	Nov.07, 2024	
16	Wideband Amplifier	1	WDA-01004000-15P35	GTS602	April 11, 2024	April 10, 2025	
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 18, 2024	April 17, 2025	
18	RE cable 1	GTS	N/A	GTS675	July 31. 2023	July 30. 2024	
19	RE cable 2	GTS	N/A	GTS676	July 31. 2023	July 30. 2024	
20	RE cable 3	GTS	N/A	GTS677	July 31. 2023	July 30. 2024	
21	RE cable 4	GTS	N/A	GTS678	July 31. 2023	July 30. 2024	
22	RE cable 5	GTS	N/A	GTS679	July 31. 2023	July 30. 2024	
23	RE cable 6	GTS	N/A	GTS680	July 31. 2023	July 30. 2024	
24	RE cable 7	GTS	N/A	GTS681	July 31. 2023	July 30. 2024	
25	RE cable 8	GTS	N/A	GTS682	July 31. 2023	July 30. 2024	



Con	Conducted Emission										
Item	Test Equipment	Manufacturer Model No.		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	July 12, 2022	July 11, 2027					
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 11, 2024	April 10, 2025					
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 11, 2024	April 10, 2025					
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A					
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A					
6	Thermo meter	JINCHUANG	GSP-8A	GTS642	April 18, 2024	April 17, 2025					
7	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 11, 2024	April 10, 2025					
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 11, 2024	April 10, 2025					
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 11, 2024	April 10, 2025					
10	Antenna end assembly	Weinschel	1870A	GTS560	April 11, 2024	April 10, 2025					

RF Co	RF Conducted Test:									
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 11, 2024	April 10, 2025				
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 11, 2024	April 10, 2025				
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 11, 2024	April 10, 2025				
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 11, 2024	April 10, 2025				
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 11, 2024	April 10, 2025				
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 11, 2024	April 10, 2025				
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 11, 2024	April 10, 2025				
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 11, 2024	April 10, 2025				
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 18, 2024	April 17, 2025				
10	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 03, 2023	Nov. 02, 2024				

Ger	General used equipment:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Barometer	KUMAO	SF132	GTS647	April 18, 2024	April 17, 2025			



7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement:	

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.

E.U.T Antenna:

The antenna is internal antenna, reference to the appendix II for details



7.2 Conducted Emissions

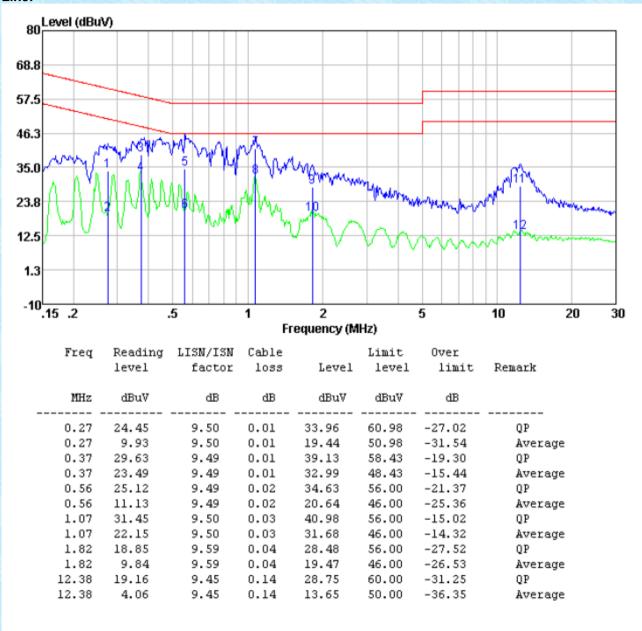
Test Requirement:	FCC Part15 C Section 15.207								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	150KHz to 30MHz								
Receiver setup:	RBW=9KHz, VBW=30KHz								
Limit:		Limit	(dBuV)						
Limit	Frequency range (MHz)	Frequency range (MHz) Limit (dBuV) Quasi-peak Average							
	0.15-0.5	66 to 56*	56 to 46*						
	0.15-0.5 66 to 56° 56 to 46° 0.5-5 56 46								
	5-30	60	50						
	* Decreases with the logarithm	n of the frequency.							
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.								
Test setup:	Reference Plane								
	Reference Plane 40cm 40cm LISN 80cm LISN Filter AC power Remark Remark E.U.T. Equipment Under Test LISN Equipment Under Test LISN English and the second secon								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.: 1012mbar						
Test voltage:	AC 120V, 60Hz								
Test results:	Pass								



Measurement data:

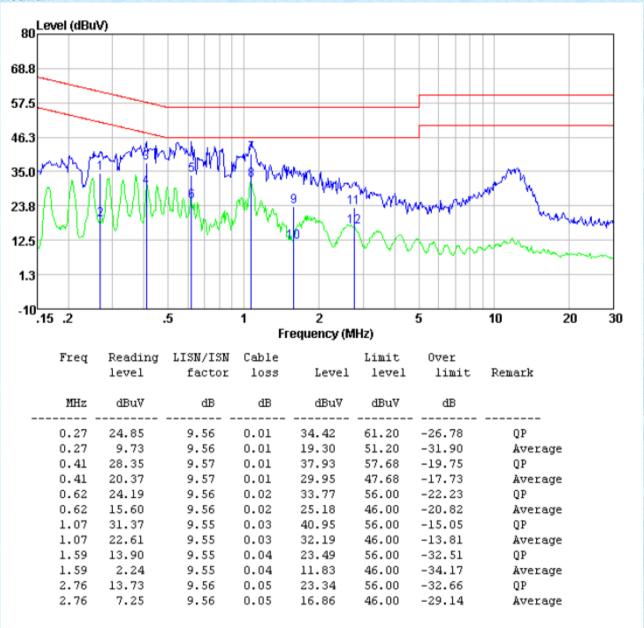
Pre-scan all test modes, found worst case at 802.11a 5180MHz, and so only show the test result of it

Line:





Neutral:

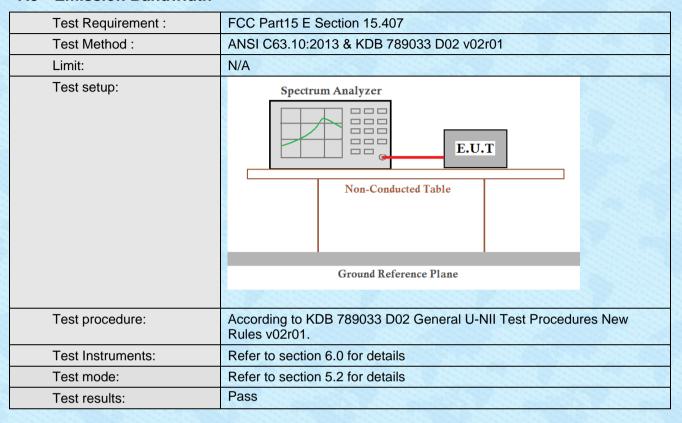


Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss



7.3 Emission Bandwidth



Measurement Data: The detailed test data see Appendix.



7.4 Maximum Conducted Output Power

Test Requirement	FCC Part15 E Section	15.407				
Test Method :	ANSI C63.10:2013 & I	KDB 789033 D02 v02r01				
Limit:	Frequency band (MHz)	Limit				
	5150-5250	≤1W(30dBm) for master device				
	5250-5350	≤250Mw(23.98dBm) for client device ≤250Mw(23.98dBm) for client device or				
	5470-5725	11dBm+10logB* ≤250Mw(23.98dBm) for client device or				
		11dBm+10logB*				
	The maximum condu	acted output power must be measured over any stransmission using instrumentation calibrated in				
Test setup:	Power Meter Non-Conducte	E.U.T				
	Ground Referen	nce Plane				
Duty Cycle set up:	RBW=VBW=8MHz					
Test procedure:	(i) Measurement meter with a the conditions listed a) The EUT is with a constant b) At all times transmitting at c) The integral repetition periodive. (ii) If the transmitting duty cycle, x, of section B). (iii) Measure the ameasurement the transmitted (iv) Adjust the measurement.	when the EUT is transmitting, it must be a tits maximum power control level. ation period of the power meter exceeds the od of the transmitted signal by at least a factor of the transmitter continuously, measure the of the transmitter output signal as described in average power of the transmitter. This is an average over both the on and off periods of the transmitter in dBm by adding 10 log(1/x) where x is				
Test Instruments:	Refer to section 6.0 fo	(e.g., 10log(1/0.25) if the duty cycle is 25 percent).				
Test mode:	Refer to section 5.2 fo					
Test results:	Pass	- dotailo				
Tool Toolito.						

Measurement Data: The detailed test data see Appendix.

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7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.40	07
Test Method :	ANSI C63.10:2013 & KDB 7	789033 D02 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
		wer spectral density is measured as a ect connection of a calibrated test instrument st.
Test setup:	Spectrum Analyzer Non-Conducte Ground Referen	
Test procedure:	being tested by following measuring maximum co analyzer or EMI receive SA-2, SA-3, or alternativincluding, the step labeled. 2) Use the peak search fur the 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 Alterrused in step E)2)g)(viii),	er spectrum for the EUT operating mode g the instructions in section E)2) for inducted output power using a spectrum r: select the appropriate test method (SA-1, ves to each) and apply it up to, but not ed, "Compute power". Inction on the instrument to find the peak of estments to the peak value of the spectrum, if etc. Alternative was used, add 10 log(1/x), etc. to the peak of the spectrum. Inative was used and the linear mode was add 1 dB to the final result to compensate en linear averaging and power averaging.
Test Instruments:	Refer to section 6.0 for deta	ils
Test mode:	Refer to section 5.2 for deta	ils
Test results:	Pass	

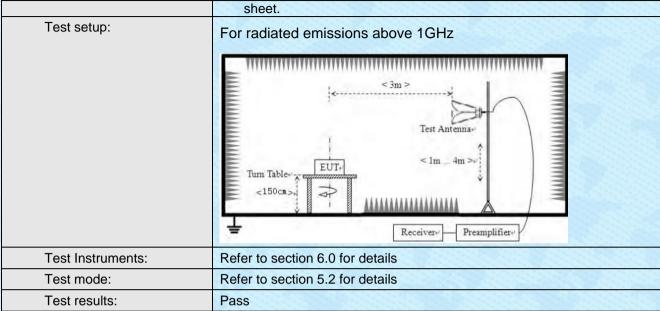
Measurement Data: The detailed test data see Appendix.



7.6 Band Edge

Test Requirement:	FCC Part15 E Se	ection 15.407	7 and 5.205					
Test Method:	ANSI C63.10:2013							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency 30MHz-1GHz Above 1GHz	Remark Quasi-peak Value Peak Value Average Value						
Limit:								
Test Procedure:								





Remarks:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
- According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows: E[dBuV/m] = EIRP[dBm] + 95.2;

For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.



Measurement Data:

Worse case mode: 802.11a Test Frequency: 5180MHz							1 Ll-7	
		8		restriequency.		The second second second		
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol.	
5150		2.62		69.20	24.26	nook	H/V	
5150	50.57 46.21	-3.63	46.94 42.58	68.20 54.00	-21.26 -11.42	peak AVG	H	
		-3.63					V	
5150	52.12	-3.63	48.49	68.20	-19.71	peak		
5150	45.59	-3.63	41.96	54.00	-12.04	AVG	V	
Worse case		8	02.11a	Test Freque	ency:	5240N	No. of Contract of	
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	
5350	49.05	-3.59	45.46	68.20	-22.74	peak	Н	
5350	45.55	-3.59	41.96	54.00	-12.04	AVG	Н	
5350	50.71	-3.59	47.12	68.20	-21.08	peak	V	
5350	44.25	-3.59	40.66	54.00	-13.34	AVG	V	
Worse case	mode:	8	02.11n	Test Frequency:		5180MHz		
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	
5150	49.79	-3.63	46.16	68.20	-22.04	peak	H	
5150	46.43	-3.63	42.80	54.00	-11.20	AVG	Н	
5150	52.24	-3.63	48.61	68.20	-19.59	peak	V	
5150	44.97	-3.63	41.34	54.00	-12.66	AVG	V	
Worse case			02.11n				240MHz	
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	
5350	49.27	-3.59	45.68	68.20	-22.52	peak	H	
5350	45.59	-3.59	42.00	54.00	-12.00	AVG	Н	
5350	49.88	-3.59	46.29	68.20	-21.91	peak	V	
5350	44.24	-3.59	40.65	54.00	-13.35	AVG	V	
Worse case	mode:	80)2.11ac	Test Freque	ency:	5180N	ИНz	
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	
5150	50.56	-3.63	46.93	68.20	-21.27	peak	Н	
5150	46.21	-3.63	42.58	54.00	-11.42	AVG	Н	
5150	52.12	-3.63	48.49	68.20	-19.71	peak	V	
5150	45.58	-3.63	41.95	54.00	-12.05	AVG	V	



Warea 2000 mode: 2002 44 04				T 1 -			50.401					
Worse case i	Worse case mode:		2.11ac	Test Fr	st Frequency:		5240					
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)		Over (dB)	Detector Type	Ant. Pol. H/V				
5350	49.05	-3.59	45.46	68.20		-22.74	peak	Н				
5350	45.54	-3.59	41.95	54.00		-12.05	AVG	Н				
5350	50.71	-3.59	47.12	68.20		-21.08	peak	V				
5350	44.25	-3.59	40.66	54.00		-13.34	AVG	V				
Worse case i	mode:	802.1	I1n(HT40)	Test Fr	equen	су:	5190N	ЛHz				
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)		Over (dB)	Detector Type	Ant. Pol. H/V				
5150	49.79	-3.63	46.16	68.20		22.04	peak	Н				
5150	46.43	-3.63	42.80	54.00		11.20	AVG	Н				
5150	52.24	-3.63	48.61	68.20		19.59	peak	V				
5150	44.97	-3.63	41.34	54.00		12.66	AVG	V				
Worse case i	mode:	802.1	802.11n(HT40)		Test Frequency:		Test Frequency:		Test Frequency:		5230N	ЛHz
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)		Over (dB)	Detector Type	Ant. Pol. H/V				
5350	49.24	-3.45	45.79	68.20	-2	22.41	peak	Н				
5350	45.57	-3.45	42.12	54.00	-1	11.88	AVG	Н				
5350	49.87	-3.45	46.42	68.20	-2	21.78	peak	V				
5350	44.21	-3.45	40.76	54.00		13.24	AVG	V				
Worse case i	mode:	802.11	ac(VHT40)	Test Fr	equen	су:	5190N	ИHz				
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)		Over (dB)	Detector Type	Ant. Pol. H/V				
5150	49.30	-3.63	45.67	68.20	-2	22.53	peak	Н				
5150	45.41	-3.63	41.78	54.00	3 () (<u>-</u>	12.22	AVG	Н				
5150	51.55	-3.63	47.92	68.20	-2	20.28	peak	V				
5150	44.52	-3.63	40.89	54.00	-	13.11	AVG	V				
Worse case i	mode:	802.11	ac(VHT40)	Test Fr	Test Frequency:		5230N	ИHz				
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)		Over (dB)	Detector Type	Ant. Pol. H/V				
5350	48.35	-3.59	44.76	68.20		23.44	peak	Н				
5350	45.02	-3.59	41.43	54.00		12.57	AVG	Н				
5350	49.54	-3.59	45.95	68.20	-2	22.25	peak	V				
5350	43.48	-3.59	39.89	54.00		14.11	AVG	V				



Worse case mode:		802.11ac(VHT80)		Test Fr	equency:	5210MHz	
Frequency (MHz)	Meter Reading	Factor (dB)	Emission Level	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol.
()	(dBµV)	(4.2)	(dBµV/m)	(== =1/11.)	(0.2)	.,,,,,	H/V
5150	48.69	-3.63	45.06	68.20	-23.14	peak	Н
5150	42.48	-3.63	38.85	54.00	-15.15	AVG	Н
5150	49.81	-3.63	46.18	68.20	-22.02	peak	V
5150	43.10	-3.63	39.47	54.00	-14.53	AVG	V
5350	49.07	-3.59	45.48	68.20	-22.72	peak	Н
5350	41.45	-3.59	37.86	54.00	-16.14	AVG	Н
5350	50.61	-3.59	47.02	68.20	-21.18	peak	V
5350	44.42	-3.59	40.83	54.00	-13.17	AVG	V



7.7 Radiated Emission

Tard Dan January	F00 D-145 0 0-	45.000						
Test Requirement :	FCC Part15 C Section 15.209 and 15.205							
Test Method :	ANSI C63.10: 2013							
Test Frequency Range:	9kHz to 40GHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber) Frequency Detector RBW VBW Value							
Receiver setup:	Frequency	Detector	RBW					
	9kHz-150KHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value			
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value			
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value			
	4011	Peak	1MHz	3MHz	Peak Value			
	Above 1GHz	AV	1MHz	3MHz	Average Value			
I have be	Note: For Duty cycle < 98%, ave				as above For Duty			
Limit:	Frequency (MHz) Fie	eld strength (microv	olts/meter)	Measureme	ent distance (meters)			
	0.009-0.490 24	00/F(kHz)	-		300			
	0.490-1.705 24 1.705-30.0 30	000/F(kHz)			30 30			
		0**			3			
		0**			3			
		0**			3			
	Above 960 50	0			3			
	measurements of	emission limit employing an	s in these average o	three ban detector.	ds are based on			
Test Procedure:	Substitution meth emission levels of The following test 1>.Below 1GHz to	the EUT.		rmine the a	actual ERP			
					(0.8m for below			
		meters for ab						
				bou degrees	s to determine the			
	2. The EUT wa	e highest radia s set 3 meters		the interfer	rence-receiving			
		ich was mount						
	antenna tow				3			
					our meters above			
					ne field strength.			
			I polarization	ons of the a	ntenna are set to			
	make the me		ion the EU	T was arre	aged to its worst			
	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 rotable table was turned from 0 degrees to 360							
		nd the maximu	ım reading.					
	Specified Ba	ndwidth with N	/laximum H	old Mode.				
	the limit spec	cified, then tes	ting could b	e stopped	as 10dB lower than and the peak the emissions that			



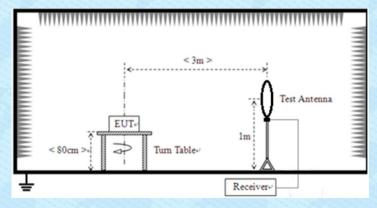
did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- 2>. Above 1GHz test procedure:
- 1. On the test site as test setup graph above, the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected to the measuring receiver.
- 3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 4. The test antenna shall be raised and lowered from 1m to 4m until a maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 5. Repeat step 4 for test frequency with the test antenna polarized horizontally.
- 6. Remove the transmitter and replace it with a substitution antenna
- 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.
- 8. Repeat step 7 with both antennas horizontally polarized for each test frequency.
- 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:
 EIRP(dBm) = Pg(dBm) cable loss (dB) + antenna gain (dBi) where:

Pg is the generator output power into the substitution antenna.

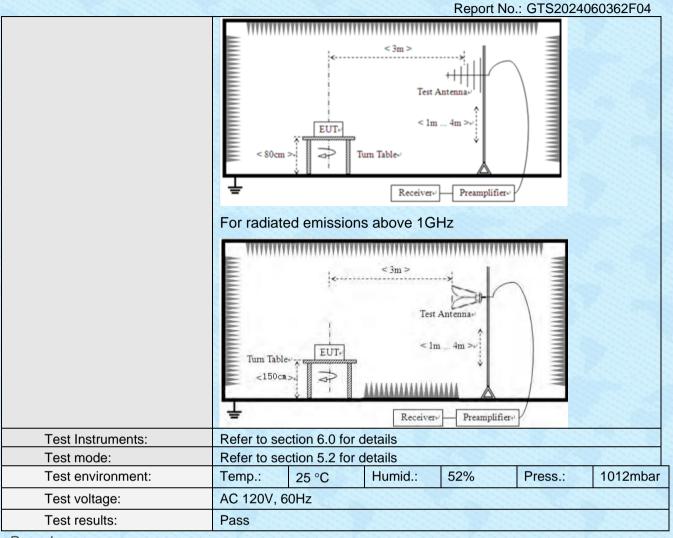
Test setup:

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz





Remarks:

1. 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:

9 kHz ~ 30 MHz

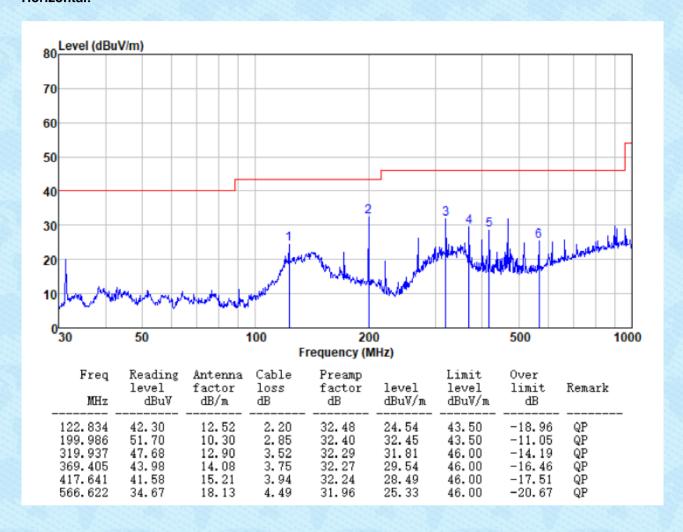
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



30MHz~1GHz

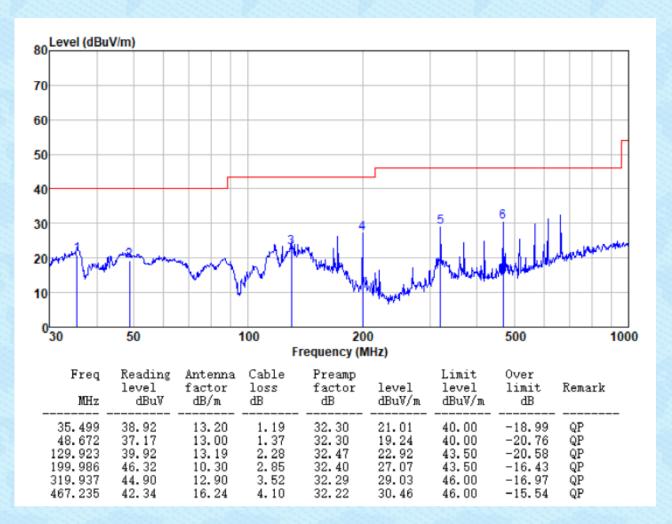
Pre-scan all test modes, found worst case at 802.11a 5180MHz, and so only show the test result of it

Horizontal:





Vertical:





Above 1GHz:

	80	02.11a			Tes	t Frequency:	5180MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	36.42	38.96	8.27	35.64	48.01	68.20	-20.19	Vertical
15540	34.31	38.40	10.57	35.35	47.93	68.20	-20.27	Vertical
10360	35.48	38.96	8.27	35.64	47.07	68.20	-21.13	Horizontal
15540	31.95	38.40	10.57	35.35	45.57	68.20	-22.63	Horizontal
10360	28.80	38.96	8.27	35.64	40.39	54.00	-13.61	Vertical
15540	27.10	38.40	10.57	35.35	40.72	54.00	-13.28	Vertical
10360	26.69	38.96	8.27	35.64	38.28	54.00	-15.72	Horizontal
15540	26.68	38.40	10.57	35.35	40.30	54.00	-13.70	Horizontal

	80	02.11a			Tes	t Frequency:	5200MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	36.14	39.01	8.29	35.67	47.77	68.20	-20.43	Vertical
15600	34.41	38.30	10.62	35.36	47.97	68.20	-20.23	Vertical
10400	35.91	39.01	8.29	35.67	47.54	68.20	-20.66	Horizontal
15600	29.92	38.30	10.62	35.36	43.48	68.20	-24.72	Horizontal
10400	29.75	39.01	8.29	35.67	41.38	54.00	-12.62	Vertical
15600	28.38	38.30	10.62	35.36	41.94	54.00	-12.06	Vertical
10400	24.93	39.01	8.29	35.67	36.56	54.00	-17.44	Horizontal
15600	25.73	38.30	10.62	35.36	39.29	54.00	-14.71	Horizontal

	80	02.11a			Tes	t Frequency:	5240MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480	36.77	39.15	8.32	35.78	48.46	68.20	-19.74	Vertical
15720	33.23	38.00	10.72	35.37	46.58	68.20	-21.62	Vertical
10480	33.48	39.15	8.32	35.78	45.17	68.20	-23.03	Horizontal
15720	33.47	38.00	10.72	35.37	46.82	68.20	-21.38	Horizontal
10480	27.38	39.15	8.32	35.78	39.07	54.00	-14.93	Vertical
15720	25.27	38.00	10.72	35.37	38.62	54.00	-15.38	Vertical
10480	25.84	39.15	8.32	35.78	37.53	54.00	-16.47	Horizontal
15720	22.56	38.00	10.72	35.37	35.91	54.00	-18.09	Horizontal



	802.1	I1n(HT20)			Tes	t Frequency:	5180MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	36.38	39.20	8.34	35.82	48.10	68.20	-20.10	Vertical
15540	34.85	37.90	10.77	35.38	48.14	68.20	-20.06	Vertical
10360	36.15	39.20	8.34	35.82	47.87	68.20	-20.33	Horizontal
15540	30.18	37.90	10.77	35.38	43.47	68.20	-24.73	Horizontal
10360	28.44	39.20	8.34	35.82	40.16	54.00	-13.84	Vertical
15540	25.95	37.90	10.77	35.38	39.24	54.00	-14.76	Vertical
10360	24.44	39.20	8.34	35.82	36.16	54.00	-17.84	Horizontal
15540	24.39	37.90	10.77	35.38	37.68	54.00	-16.32	Horizontal

	802.1	11n(HT20)			Tes	t Frequency:	5200MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	37.10	38.96	8.27	35.64	48.69	68.20	-19.51	Vertical
15600	32.45	38.40	10.57	35.35	46.07	68.20	-22.13	Vertical
10400	33.20	38.96	8.27	35.64	44.79	68.20	-23.41	Horizontal
15600	34.05	38.40	10.57	35.35	47.67	68.20	-20.53	Horizontal
10400	30.28	38.96	8.27	35.64	41.87	54.00	-12.13	Vertical
15600	28.50	38.40	10.57	35.35	42.12	54.00	-11.88	Vertical
10400	27.46	38.96	8.27	35.64	39.05	54.00	-14.95	Horizontal
15600	22.79	38.40	10.57	35.35	36.41	54.00	-17.59	Horizontal

		<u> </u>			2000 (2000)	Carlo Carlo Control		
	802.1	l1n(HT20)			Tes	t Frequency: :	5240MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10480	33.78	39.15	8.32	35.78	45.47	68.20	-22.73	Vertical
15720	33.27	38.00	10.72	35.37	46.62	68.20	-21.58	Vertical
10480	32.94	39.15	8.32	35.78	44.63	68.20	-23.57	Horizontal
15720	29.20	38.00	10.72	35.37	42.55	68.20	-25.65	Horizontal
10480	28.32	39.15	8.32	35.78	40.01	54.00	-13.99	Vertical
15720	27.94	38.00	10.72	35.37	41.29	54.00	-12.71	Vertical
10480	24.61	39.15	8.32	35.78	36.30	54.00	-17.70	Horizontal
15720	25.80	38.00	10.72	35.37	39.15	54.00	-14.85	Horizontal



	802.1	11n(HT40)			Tes	t Frequency:	5190MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380	37.83	39.01	8.28	35.67	49.45	68.20	-18.75	Vertical
15570	33.05	38.30	10.60	35.36	46.59	68.20	-21.61	Vertical
10380	34.18	39.01	8.28	35.67	45.80	68.20	-22.40	Horizontal
15570	31.03	38.30	10.60	35.36	44.57	68.20	-23.63	Horizontal
10380	27.08	39.01	8.28	35.67	38.70	54.00	-15.30	Vertical
15570	26.42	38.30	10.60	35.36	39.96	54.00	-14.04	Vertical
10380	27.95	39.01	8.28	35.67	39.57	54.00	-14.43	Horizontal
15570	25.47	38.30	10.60	35.36	39.01	54.00	-14.99	Horizontal

	802.1	11n(HT40)			Tes	t Frequency:	5230MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10460	36.35	39.11	8.31	35.75	48.02	68.20	-20.18	Vertical
15690	33.60	38.10	10.70	35.37	47.03	68.20	-21.17	Vertical
10460	33.19	39.11	8.31	35.75	44.86	68.20	-23.34	Horizontal
15690	31.00	38.10	10.70	35.37	44.43	68.20	-23.77	Horizontal
10460	30.22	39.11	8.31	35.75	41.89	54.00	-12.11	Vertical
15690	29.16	38.10	10.70	35.37	42.59	54.00	-11.41	Vertical
10460	25.28	39.11	8.31	35.75	36.95	54.00	-17.05	Horizontal
15690	27.44	38.10	10.70	35.37	40.87	54.00	-13.13	Horizontal



	802.1	1ac(HT20)			Tes	t Frequency:	5180MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360	34.04	38.96	8.27	35.64	45.63	68.20	-22.57	Vertical
15540	34.83	38.40	10.57	35.35	48.45	68.20	-19.75	Vertical
10360	32.66	38.96	8.27	35.64	44.25	68.20	-23.95	Horizontal
15540	33.06	38.40	10.57	35.35	46.68	68.20	-21.52	Horizontal
10360	26.91	38.96	8.27	35.64	38.50	54.00	-15.50	Vertical
15540	24.56	38.40	10.57	35.35	38.18	54.00	-15.82	Vertical
10360	25.02	38.96	8.27	35.64	36.61	54.00	-17.39	Horizontal
15540	22.34	38.40	10.57	35.35	35.96	54.00	-18.04	Horizontal

	802.1	1ac(HT20)			Tes	t Frequency:	5200MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10400	37.19	39.01	8.29	35.67	48.82	68.20	-19.38	Vertical
15600	33.67	38.30	10.62	35.36	47.23	68.20	-20.97	Vertical
10400	33.54	39.01	8.29	35.67	45.17	68.20	-23.03	Horizontal
15600	34.07	38.30	10.62	35.36	47.63	68.20	-20.57	Horizontal
10400	29.61	39.01	8.29	35.67	41.24	54.00	-12.76	Vertical
15600	28.06	38.30	10.62	35.36	41.62	54.00	-12.38	Vertical
10400	24.45	39.01	8.29	35.67	36.08	54.00	-17.92	Horizontal
15600	26.86	38.30	10.62	35.36	40.42	54.00	-13.58	Horizontal

	222.4	4 (1.1700)				_	= 0.40 1 .41.1	
	802.1	1ac(HT20)			I es	t Frequency: :	5240MHz	
Frequency	Read	Antenna	Cable	Preamp	Level	Limit Line	Over	
	Level	Factor	Loss	Factor			Limit	polarization
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
10480	32.57	39.15	8.32	35.78	44.26	68.20	-23.94	Vertical
15720	33.48	38.00	10.72	35.37	46.83	68.20	-21.37	Vertical
10480	34.27	39.15	8.32	35.78	45.96	68.20	-22.24	Horizontal
15720	34.09	38.00	10.72	35.37	47.44	68.20	-20.76	Horizontal
10480	27.45	39.15	8.32	35.78	39.14	54.00	-14.86	Vertical
15720	27.53	38.00	10.72	35.37	40.88	54.00	-13.12	Vertical
10480	23.67	39.15	8.32	35.78	35.36	54.00	-18.64	Horizontal
15720	25.00	38.00	10.72	35.37	38.35	54.00	-15.65	Horizontal



	802.1	1ac(HT40)			Tes	t Frequency:	5190MHz	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10380	33.48	39.01	8.28	35.67	45.10	68.20	-23.10	Vertical
15570	30.70	38.30	10.60	35.36	44.24	68.20	-23.96	Vertical
10380	32.40	39.01	8.28	35.67	44.02	68.20	-24.18	Horizontal
15570	32.07	38.30	10.60	35.36	45.61	68.20	-22.59	Horizontal
10380	26.61	39.01	8.28	35.67	38.23	54.00	-15.77	Vertical
15570	26.92	38.30	10.60	35.36	40.46	54.00	-13.54	Vertical
10380	28.11	39.01	8.28	35.67	39.73	54.00	-14.27	Horizontal
15570	26.56	38.30	10.60	35.36	40.10	54.00	-13.90	Horizontal

802.11ac(HT40)					Test Frequency: 5230MHz				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
10460	33.96	39.11	8.31	35.75	45.63	68.20	-22.57	Vertical	
15690	34.36	38.10	10.70	35.37	47.79	68.20	-20.41	Vertical	
10460	31.75	39.11	8.31	35.75	43.42	68.20	-24.78	Horizontal	
15690	32.90	38.10	10.70	35.37	46.33	68.20	-21.87	Horizontal	
10460	28.93	39.11	8.31	35.75	40.60	54.00	-13.40	Vertical	
15690	27.55	38.10	10.70	35.37	40.98	54.00	-13.02	Vertical	
10460	23.96	39.11	8.31	35.75	35.63	54.00	-18.37	Horizontal	
15690	23.84	38.10	10.70	35.37	37.27	54.00	-16.73	Horizontal	

802.11ac(HT80)					Test Frequency: 5210MHz				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
10420	36.57	39.06	8.29	35.71	48.21	68.20	-19.99	Vertical	
15630	33.67	38.20	10.65	35.36	47.16	68.20	-21.04	Vertical	
10420	34.79	39.06	8.29	35.71	46.43	68.20	-21.77	Horizontal	
15630	33.70	38.20	10.65	35.36	47.19	68.20	-21.01	Horizontal	
10420	29.35	39.06	8.29	35.71	40.99	54.00	-13.01	Vertical	
15630	27.60	38.20	10.65	35.36	41.09	54.00	-12.91	Vertical	
10420	25.22	39.06	8.29	35.71	36.86	54.00	-17.14	Horizontal	
15630	26.89	38.20	10.65	35.36	40.38	54.00	-13.62	Horizontal	

Notes:

- 1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.
- 2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.



7.8 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:		The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.				
Test setup:	Spectrum analyzer Att. Note: Measurement setup for testing on A	Temperature Chamber EUT Variable Power Supply Antenna connector				
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					



Measurement Data:

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
	Carrier	5180	1		<=20	PASS
		5190	1	-5.68	<=20	PASS
		5200	1	-8.60	<=20	PASS
		5210	1	-3.33	<=20	PASS
		5230	1	-2.48	<=20	PASS
		5240	1	-8.48	<=20	PASS
		5260	1	-6.65	<=20	PASS
		5270	1	-5.55	<=20	PASS
		5280	1	-3.10	<=20	PASS
NTNV		5290	1	-2.18	<=20	PASS
INTINV		5310	1	-2.34	<=20	PASS
		5320	1	-3.81	<=20	PASS
		5500	1	-4.66	<=20	PASS
		5510	1	-5.82	<=20	PASS
		5530	1	-5.18	<=20	PASS
		5550	1	-3.33	<=20	PASS
		5580	1	-4.48	<=20	PASS
		5610	1	-4.64	<=20	PASS
		5670	1	-4.91	<=20	PASS
		5700	1	-5.18	<=20	PASS



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

---END---