

Global United Technology Services Co., Ltd.

Report No.: GTS202212000003F04

TEST REPORT

Nuvyyo Inc. Applicant:

555 Legget Drive Tower B Suite 836 Kanata, ON K2K2X3, **Address of Applicant:**

Canada

Nuvvvo Inc. Manufacturer:

555 Legget Drive Tower B Suite 836 Kanata, ON K2K2X3, Address of

Canada Manufacturer:

Shenzhen Giec Digital Co., Ltd Factory:

1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang District, Address of Factory:

Shenzhen, China

Equipment Under Test (EUT)

OTA streamer **Product Name:**

Tablo, TF1282B-01-CN, TF1282B-AB-01-CN, Model No.:

TFNS2B-01-CN, TFNS2B-AB-01-CN, TF1282B-02-CN,

TF1282B-AB-02-CN, TFNS2B-02-CN, TFNS2B-AB-02-CN

FCC ID: 2AOR7-TABLO020

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

Date of sample receipt: December 02, 2022

Date of Test: December 02-16, 2022

Date of report issue: December 16, 2022

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 and the signatures of compiler and approver. Page 1 of 33



2 Version

Version No.	Date	Description
00	December 16, 2022	Original

Prepared By: December 16, 2022

Project Engineer

Check By: December 16, 2022

Reviewer

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



3 Contents

			Page
1	CO	VER PAGE	1
2	VEF	RSION	2
3	CON	NTENTS	3
4	TES	ST SUMMARY	4
	4.1	MEASUREMENT UNCERTAINTY	4
5	GEN	NERAL INFORMATION	5
	5.1 5.2	GENERAL DESCRIPTION OF EUT	6
	5.3 5.4	TEST FACILITY TEST LOCATION	
	5.5 5.6	DESCRIPTION OF SUPPORT UNITS	
6	5.7 TES	Additional Instructions	
7	TES	ST RESULTS AND MEASUREMENT DATA	9
	7.1	ANTENNA REQUIREMENT:	9
	7.2	CONDUCTED EMISSIONS	
	7.3	EMISSION BANDWIDTH	
	7.4 7.5	MAXIMUM CONDUCTED OUTPUT POWER	
	7.6	BAND EDGE	
	7.7	RADIATED EMISSION	
	7.8	FREQUENCY STABILITY	
8	TES	ST SETUP PHOTO	33
9	EU1	CONSTRUCTIONAL DETAILS	33



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 0.15MHz ~ 30MHz 3.44dB					
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:	OTA streamer							
Model No.:	Tablo, TF1282B-01-CN, TF1282B-AB-01-CN, TFNS2B-01-CN,							
	TFNS2B-AB-01-CN, TF1282B-02-CN, TF1282B-AB-02-CN,							
	TFNS2B-02-CI	TFNS2B-02-CN, TFNS2B-AB-02-CN						
Test Model No.:	Tablo							
Remark:All above models a	are identical in th	e same PCB layout, interio	r structure and e	electrical circuits.				
The differences are the ma model name for commercia		ICC (the manufacturers are	Samsung and L	ongsys) and				
Test sample(s) ID:	GTS20221200	0003-1						
Sample(s) Status:	Engineer samp	ole						
S/N:	5087B8502774							
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels				
	U-NII Band	IEEE 802.11a	5180-5240	4				
	I	IEEE 802.11n/ac 20MHz	5180-5240	4				
		IEEE 802.11n/ac 40MHz	5190-5230	2				
		IEEE 802.11ac 80MHz	5210	1				
Modulation technology:	OFDM							
Antenna Type:	Integral Antenr	na						
Antenna gain:	ANT 1: 2.53dB	i						
	ANT 2: 2.53dB	i Carlotti de la companya de la com						
Power supply:	AC ADAPTER							
	MODEL: TEKA-TC120150US							
	INPUT: AC 10	0-240V, 50/60Hz, 0.5A MAX	<					
	OUTPUT: DC							

Channel list for 802.11a/n/ac(HT20)							
Channel Frequency Channel Frequency Channel Frequency Channel Frequency							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

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5.2 Test mode

Transmitting mode	ransmitting 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	Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.					
Mo	Mode Data rate					
802.11a/n/	802.11a/n/ac(HT20) 6/6.5 Mbps					
802.11n/ac(HT40) 13.5 Mbps						
802.11ad	c(HT80)	29.3 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.

• IC —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 Industry Canada 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 test command provided by manufacturer		test command provided by manufacturer
Pov	wer level setup	Default

Global United Technology Services Co., Ltd.

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

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Rad	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	July 02, 2020	July 01, 2025		
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 22, 2022	April 21, 2023		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 21, 2022	March 20, 2023		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June 12, 2022	June 11, 2023		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 23, 2022	June 22, 2023		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023		
9	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023		
10	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023		
11	Coaxial Cable	GTS	N/A	GTS212	April 22, 2022	April 21, 2023		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023		
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 23, 2022	June 22, 2023		
14	Band filter	Amindeon	82346	GTS219	June 23, 2022	June 22, 2023		
15	Power Meter	Anritsu	ML2495A	GTS540	June 23, 2022	June 22, 2023		
16	Power Sensor	Anritsu	MA2411B	GTS541	June 23, 2022	June 22, 2023		
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 22, 2022	April 21, 2023		
18	Splitter	Agilent	11636B	GTS237	June 23, 2022	June 22, 2023		
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023		
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 22, 2022	April 21, 2023		
21	Breitband hornantenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 16, 2022	Oct. 15, 2023		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 16, 2022	Oct. 15, 2023		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 16, 2022	Oct. 15, 2023		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June 23, 2022	June 22, 2023		
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 22, 2022	April 21, 2023		



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	May 14, 2022	May 13, 2025			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 24, 2022	April 23, 2023			
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 23, 2022	June 22, 2023			
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	April 22, 2022	April 21, 2023			
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A			
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
7	Thermo meter	JINCHUANG	GSP-8A	GTS639	April 28, 2022	April 27, 2023			
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 15, 2022	April 14, 2023			
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 22, 2022	April 21, 2023			
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 22, 2022	April 21, 2023			

RF C	RF Conducted Test:											
Item	Test Equipment	Manufacturer Model No. Se		Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)						
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 22, 2022	April 21, 2023						
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 22, 2022	April 21, 2023						
3	Spectrum Analyzer	Agilent	E4440A	GTS536	April 22, 2022	April 21, 2023						
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 22, 2022	April 21, 2023						
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 22, 2022	April 21, 2023						
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 22, 2022	April 21, 2023						
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 22, 2022	April 21, 2023						
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 22, 2022	April 21, 2023						

Ger	General used equipment:									
Item	Test Equipment	Manufacturer Model No.		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023				
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023				



7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement:	
	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an
	coupling to the intentional radiator, the manufacturer may design the unit not be replaced by the user, but the use of a standard antenna jack or sited

E.U.T Antenna:

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



7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		- Care - Care							
Test Method:	ANSI C63.10									
Test Frequency Range:	150KHz to 30MHz									
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto									
Limit:			(dBuV)							
	Frequency range (MHz)	Quasi-peak	Averag	е						
	0.15-0.5	66 to 56*	56 to 46							
	0.5-5	56	46	0.00						
	5-30	60	50							
	* Decreases with the logarithm of									
Test setup:	Reference Plane	, , , , , , , , , , , , , , , , , , , ,								
	Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC p								
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer 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 on conducted measurement. 									
Test Instruments:	Refer to section 6.0 for details									
Test mode:	Refer to section 5.2 for details									
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar									
Test voltage:	AC 120V, 60Hz									
Test results:	Pass									

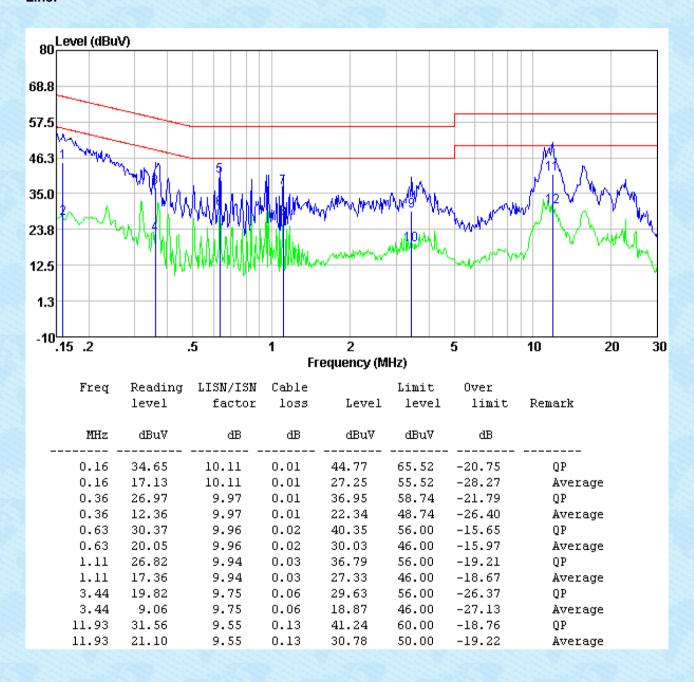


Measurement data

All antennas have test, only the worst case ANT 1 report.

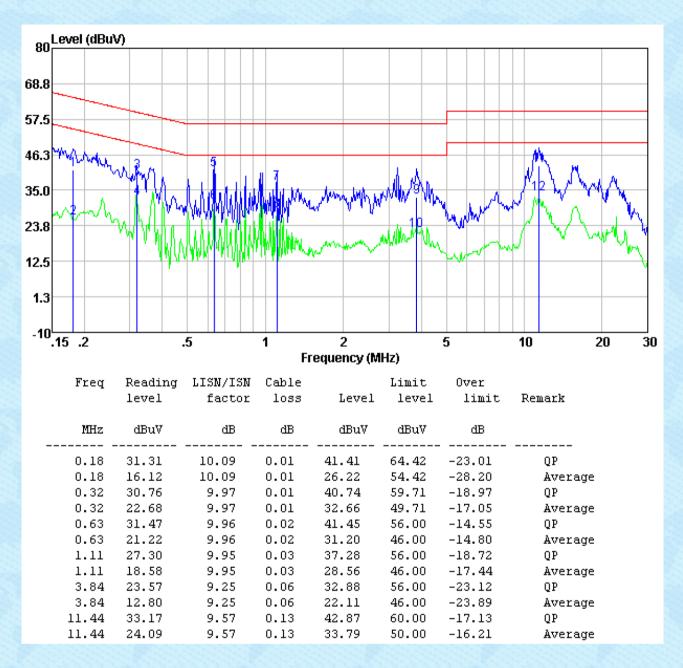
Test mode :wifi mode

Line:





Neutral:

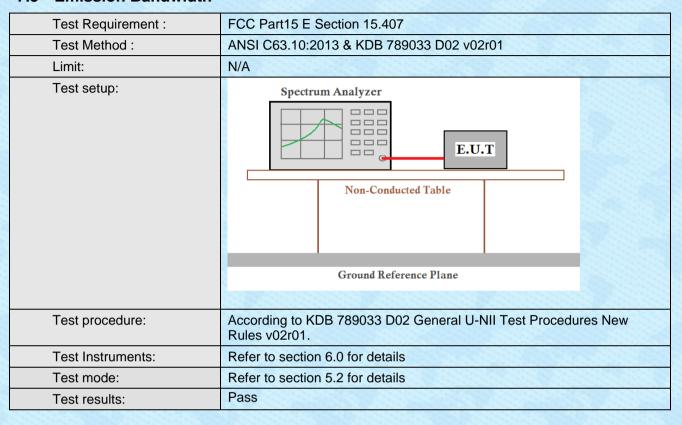


Notes

- 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
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Emission Bandwidth





7.4 Maximum Conducted Output Power

Test Requirement	FCC Part15 E Section	15.407						
Test Method :	ANSI C63.10:2013 & KDB 789033 D02 v02r01							
Limit:	Frequency band 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*						
	Remark: *Where B is	s the 26Db emission bandwidth in MHz.						
		acted output power must be measured over any stransmission using instrumentation calibrated in valent voltage.						
Test setup:	Power Meter Non-Conducts	E.U.T						
	Ground Refere							
Durby Cycle act up	RBW=VBW=8MHz	nce riane						
Duty Cycle set up:		on DE overene newer meter						
Test procedure:	(i) Measurement meter with a the conditions liste a) The EUT is	an RF average power meter s may be performed using a wideband RF power hermocouple detector or equivalent if all of the ed below are satisfied configured to transmit continuously or to transmit						
		when the EUT is transmitting, it must be						
		t its maximum power control level.						
		ation period of the 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						
	(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.							
	(iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).							
Test Instruments:	Refer to section 6.0 fo	r details						
Test mode:	Refer to section 5.2 fo	r details						



7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.40	07					
Test Method :	ANSI C63.10:2013 & KDB 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					
		ower 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 followin measuring maximum co analyzer or EMI receive SA-2, SA-3, or alternativincluding, the step label 2) Use the peak search furthe spectrum. 3) Make the following adjuapplicable: a) If Method SA-2 or SA where x is the duty cycle b) If Method SA-3 Alternused in step E)2)g)(viii)	g the instructions in section E)2) for onducted output power using a spectrum er: select the appropriate test method (SA-1, wes to each) and apply it up to, but not led, "Compute power". Inction on the instrument to find the peak of estimates to the peak value of the spectrum, if eq. 2 Alternative was used, add 10 log(1/x), e, to the peak of the spectrum. Inative was used and the linear mode was each inear averaging and power averaging.					
Test Instruments:	Refer to section 6.0 for deta	nils					
Test mode:	Refer to section 5.2 for deta	nils					
Test results:	Pass						



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 Detector RBW VBW Remark 30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak 1 Above 1GHz Peak 1MHz 3MHz Peak Value AV 1MHz 3MHz Average Value AV								
Limit:	Frequency Limit (dBuV/m @3m) Rema 30MHz-88MHz 40.0 Quasi-peak 88MHz-216MHz 43.5 Quasi-peak 216MHz-960MHz 46.0 Quasi-peak 960MHz-1GHz 54.0 Quasi-peak Above 1GHz 54.0 Average 68.2 Peak Va								
	 Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 								
Test Procedure:	(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions								

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



	sheet.
Test setup:	For radiated emissions above 1GHz Test Antennae < 1m 4m > e Receivere Preamplifiere Receivere Preamplifiere
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

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.
- 4. 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:

All antennas have test, only the worst case ANT 1 report.									
Worse case	8	02.11a	Test Freque	5180MHz					
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V		
5150	50.46	-3.63	46.83	68.20	-21.37	peak	Н		
5150	46.14	-3.63	42.51	54.00	-11.49	AVG	Н		
5150	52.07	-3.63	48.44	68.20	-19.76	peak	V		
5150	45.49	-3.63	41.86	54.00	-12.14	AVG	V		
Worse case	mode:	8	02.11a	Test Freque	ency:	5240N	ЛHz		
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V		
5350	48.99	-3.59	45.40	68.20	-22.80	peak	Н		
5350	45.50	-3.59	41.91	54.00	-12.09	AVG	Н		
5350	50.61	-3.59	47.02	68.20	-21.18	peak	V		
5350	44.18	-3.59	40.59	54.00	-13.41	AVG	V		
Worse case	mode:	8	02.11n	Test Freque	ency:	5180N	ЛHz		
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol.		
5150	49.74	-3.63	46.11	68.20	-22.09	peak	H/V H		
5150	46.34	-3.63	42.71	54.00	-11.29	AVG	Н		
5150	52.18	-3.63	48.55	68.20	-11.29	peak	V		
5150	44.93	-3.63	41.30	54.00	-12.70	AVG	V		
Worse case			02.11n	Test Freque		5240N			
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V		
5350	49.19	-3.59	45.60	68.20	-22.60	peak	Н		
5350	45.54	-3.59	41.95	54.00	-12.05	AVG	H		
5350	49.85	-3.59	46.26	68.20	-21.94	peak	V		
5350	44.17	-3.59	40.58	54.00	-13.42	AVG	V		
Worse case	/orse case mode:)2.11ac	Test Freque	ency:	5180N	ЛHz		
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V		
5150	50.45	-3.63	46.82	68.20	-21.38	peak	Н		
5150	46.14	-3.63	42.51	54.00	-11.49	AVG	Н		
5150	52.07	-3.63	48.44	68.20	-19.76	peak	V		
5150	45.48	-3.63	41.85	54.00	-12.15	AVG	V		
Worse case	mode:	80	2.11ac	Test Freque	ency:	5240N	ЛHz		
Frequency	Meter	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.		
(MHz)	Reading (dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V		

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

GTS

				Re	port No.: GTS2	2022120000	03F04
5350	45.50	-3.59	41.91	54.00 -12.09		AVG	Н
5350	50.60	-3.59	47.01	68.20	-21.19	peak	V
5350	44.18	-3.59	40.59	54.00	-13.41	AVG	V
Worse case i			I1n(HT40)	12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	equency:	5190	ЛН2
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	49.74	-3.63	46.11	68.20	-22.09	peak	Н
5150	46.34	-3.63	42.71	54.00	-11.29	AVG	Н
5150	52.18	-3.63	48.55	68.20	-19.65	peak	V
5150	44.93	-3.63	41.30	54.00	-12.70	AVG	V
Worse case r		802.1	I1n(HT40)	Test Fro	equency:	5230	ИНz
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5350	49.16	-3.45	45.71	68.20	-22.49	peak	Н
5350	45.52	-3.45	42.07	54.00	-11.93	AVG	Н
5350	49.83	-3.45	46.38	68.20	-21.82	peak	V
5350	44.15	-3.45	40.70	54.00	-13.30	AVG	V
Worse case r	mode:	802.11ac(VHT40)		Test Frequency:		5190MHz	
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	49.29	-3.63	45.66	68.20	-22.54	peak	Н
5150	45.41	-3.63	41.78	54.00	-12.22	AVG	Н
5150	51.55	-3.63	47.92	68.20	-20.28	peak	V
5150	44.51	-3.63	40.88	54.00	-13.12	AVG	V
Worse case r	mode:	802.11	ac(VHT40)	Test Fro	equency:	5230	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	45.01	-3.59	41.42	54.00	-12.58	AVG	Н
5350	49.54	-3.59	45.95	68.20	-22.25	peak	V
5350	43.47	-3.59	39.88	54.00	-14.12	AVG	V
Worse case r	mode:	802.11	ac(VHT80)	Test Frequency:		5210	ИHz
Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over (dB)	Detector Type	Ant. Pol. H/V
5150	48.60	-3.63	44.97	68.20	-23.23	peak	Н
5150	42.42	-3.63	38.79	54.00	-15.21	AVG	Н
5150	49.76	-3.63	46.13	68.20	-22.07	peak	V
5150	43.02	-3.63	39.39	54.00	-14.61	AVG	V
5350	49.02	-3.59	45.43	68.20	-22.77	peak	Н
5350	41.41	-3.59	37.82	54.00	-16.18	AVG	Н
5350	50.53	-3.59	46.94	68.20	-21.26	peak	V
5350	44.37	-3.59	40.78	54.00	-13.22	AVG	V

Global United Technology Services Co., Ltd.

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

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 19 of 33



7.7 Radiated Emission

Test Requirement:	FCC Part15 C	Sac	tion 15 200 an	d 15 205					
Test Method :	FCC Part15 C Section 15.209 and 15.205 ANSI C63.10: 2013								
Test Frequency Range:	9kHz to 40GHz Measurement Distance: 3m (Semi-Apechoic Chamber)								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency		Detector	RBW	VBW 1kHz	Value			
	9kHz-150KH 150kHz-30Ml		Quasi-peak Quasi-peak	200Hz 9kHz	30kHz	Quasi-peak Value Quasi-peak Value			
	30MHz-1GH		Quasi-peak Quasi-peak	120KHz	300KHz	Quasi-peak Value			
	The state of the s		Peak	1MHz	3MHz	Peak Value			
	Above 1GH	Z	AV	1MHz	3MHz	Average Value			
Limit:	The second second								
	Frequency (MHz)		d strength (microvo	lts/meter)	Measuremer	nt distance (meters)			
	0.009-0.490 0.490-1.705		0/F(kHz) 00/F(kHz)			300 30			
	1.705-30.0	30	00/F(K112)			30			
	30-88	100	**			3			
	88-216	150				3			
	216-960 Above 960	200 500				3			
		2:00							
Test Procedure:	the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. Substitution method was performed to determine the actual ERP emission levels of the EUT. The following test procedure as below: 1>.Below 1GHz test procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength.								
Both horizontal and vertical polarizations of the antenna a make the measurement. 4. For each suspected emission, the EUT was arranged to case and then the antenna was tuned to heights from 1 meters and the rotable table was turned from 0 degrees to degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB the limit specified, then testing could be stopped and the values of the EUT would be reported. Otherwise the emist did not have 10dB margin would be re-tested one by one peak, quasi-peak or average method as specified and the in a data sheet. 2>.Above 1GHz test procedure: 1. On the test site as test setup graph above, the EUT shall be									

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

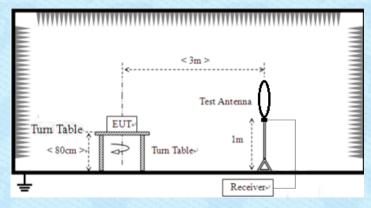


- the 0.8m support on the turntable and in the position closest to normal use as declared by the provider.
- 2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter. The output of the test antenna shall be connected 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)

Pg is the generator output power into the substitution antenna.

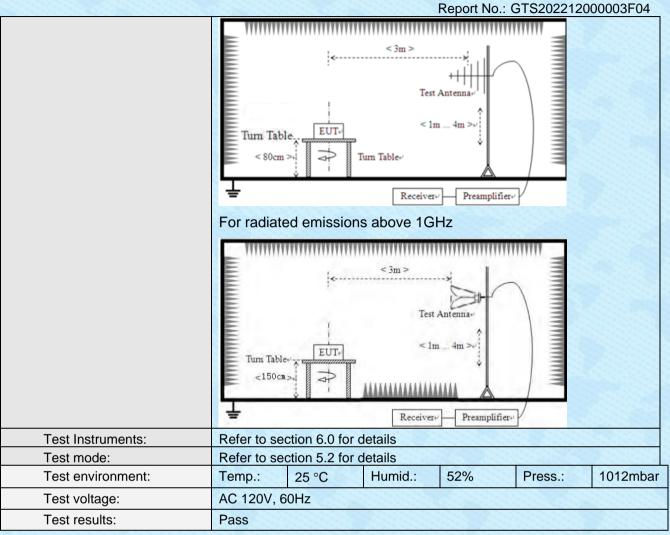
Test setup:

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

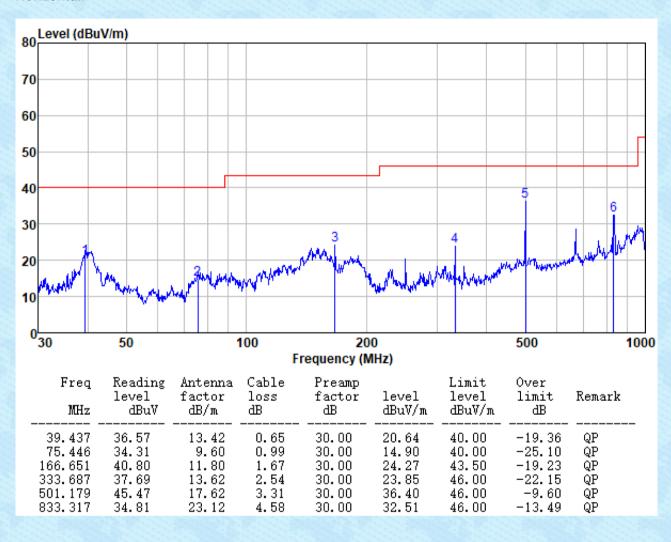
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



30MHz~1GHz

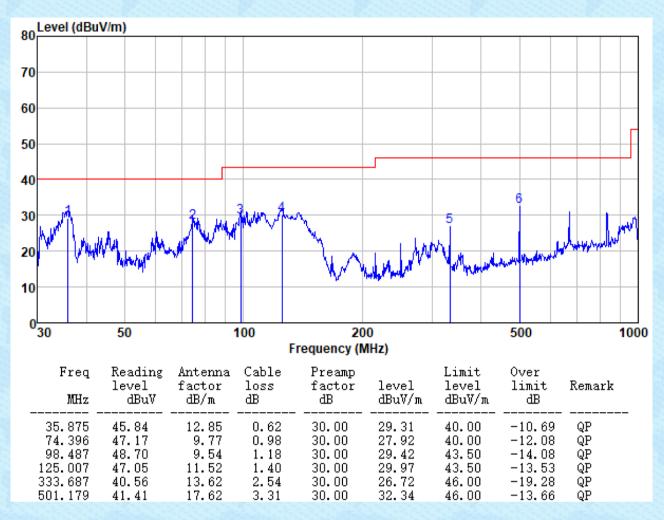
Pre-scan all test modes, found worst case at 802.11a 5180MHz(ANT 1), and so only show the test result of it. **EMMC of Samsung**:

Horizontal:





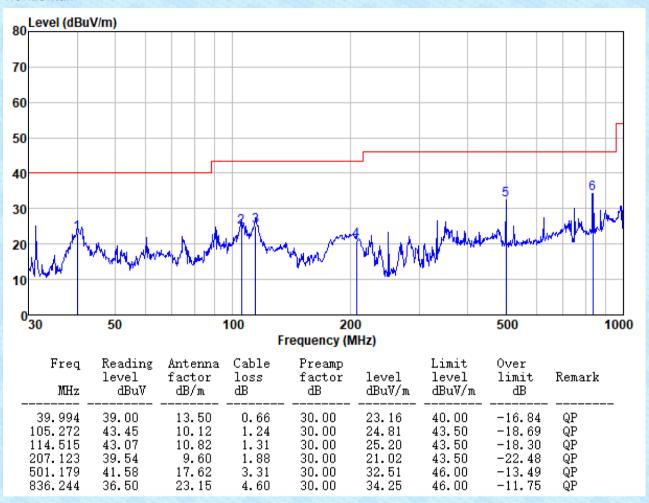
Vertical:





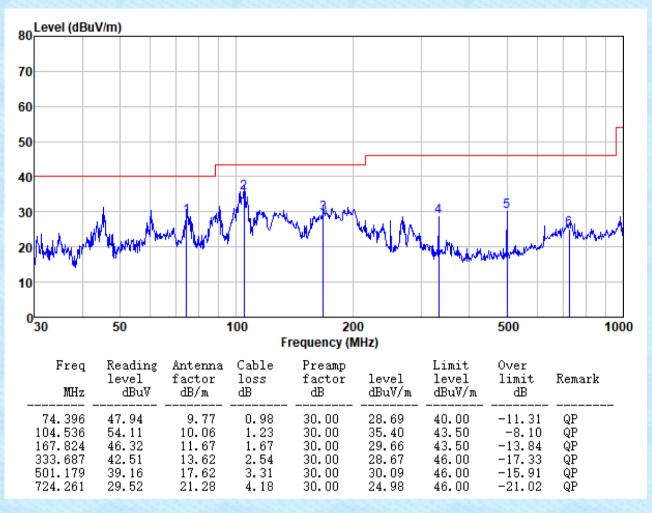
Longsys:

Horizontal:





Vertical:





All antennas have test, only the worst case ANT 1 report. Above 1GHz:

	802.1	11a(HT20)			Test 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	36.25	38.96	8.27	35.64	47.84	68.20	-20.36	Vertical	
15540	34.20	38.40	10.57	35.35	47.82	68.20	-20.38	Vertical	
10360	35.40	38.96	8.27	35.64	46.99	68.20	-21.21	Horizontal	
15540	31.81	38.40	10.57	35.35	45.43	68.20	-22.77	Horizontal	
10360	28.70	38.96	8.27	35.64	40.29	54.00	-13.71	Vertical	
15540	27.03	38.40	10.57	35.35	40.65	54.00	-13.35	Vertical	
10360	26.53	38.96	8.27	35.64	38.12	54.00	-15.88	Horizontal	
15540	26.58	38.40	10.57	35.35	40.20	54.00	-13.80	Horizontal	

	802.1	1a(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	36.06	39.01	8.29	35.67	47.69	68.20	-20.51	Vertical
15600	34.27	38.30	10.62	35.36	47.83	68.20	-20.37	Vertical
10400	35.82	39.01	8.29	35.67	47.45	68.20	-20.75	Horizontal
15600	29.85	38.30	10.62	35.36	43.41	68.20	-24.79	Horizontal
10400	29.60	39.01	8.29	35.67	41.23	54.00	-12.77	Vertical
15600	28.29	38.30	10.62	35.36	41.85	54.00	-12.15	Vertical
10400	24.87	39.01	8.29	35.67	36.50	54.00	-17.50	Horizontal
15600	25.61	38.30	10.62	35.36	39.17	54.00	-14.83	Horizontal

	802.1	11a(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	36.70	39.15	8.32	35.78	48.39	68.20	-19.81	Vertical
15720	33.17	38.00	10.72	35.37	46.52	68.20	-21.68	Vertical
10480	33.35	39.15	8.32	35.78	45.04	68.20	-23.16	Horizontal
15720	33.39	38.00	10.72	35.37	46.74	68.20	-21.46	Horizontal
10480	27.32	39.15	8.32	35.78	39.01	54.00	-14.99	Vertical
15720	25.16	38.00	10.72	35.37	38.51	54.00	-15.49	Vertical
10480	25.77	39.15	8.32	35.78	37.46	54.00	-16.54	Horizontal
15720	22.50	38.00	10.72	35.37	35.85	54.00	-18.15	Horizontal



	802.1	1n(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	36.13	39.20	8.34	35.82	47.85	68.20	-20.35	Vertical
15540	34.69	37.90	10.77	35.38	47.98	68.20	-20.22	Vertical
10360	36.04	39.20	8.34	35.82	47.76	68.20	-20.44	Horizontal
15540	29.98	37.90	10.77	35.38	43.27	68.20	-24.93	Horizontal
10360	28.31	39.20	8.34	35.82	40.03	54.00	-13.97	Vertical
15540	25.85	37.90	10.77	35.38	39.14	54.00	-14.86	Vertical
10360	24.21	39.20	8.34	35.82	35.93	54.00	-18.07	Horizontal
15540	24.24	37.90	10.77	35.38	37.53	54.00	-16.47	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	36.99	38.96	8.27	35.64	48.58	68.20	-19.62	Vertical
15600	32.26	38.40	10.57	35.35	45.88	68.20	-22.32	Vertical
10400	33.07	38.96	8.27	35.64	44.66	68.20	-23.54	Horizontal
15600	33.95	38.40	10.57	35.35	47.57	68.20	-20.63	Horizontal
10400	30.18	38.96	8.27	35.64	41.77	54.00	-12.23	Vertical
15600	28.47	38.40	10.57	35.35	42.09	54.00	-11.91	Vertical
10400	27.44	38.96	8.27	35.64	39.03	54.00	-14.97	Horizontal
15600	22.69	38.40	10.57	35.35	36.31	54.00	-17.69	Horizontal

	802.1	l1n(HT20)			Tes	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	33.75	39.15	8.32	35.78	45.44	68.20	-22.76	Vertical
15720	33.25	38.00	10.72	35.37	46.60	68.20	-21.60	Vertical
10480	32.93	39.15	8.32	35.78	44.62	68.20	-23.58	Horizontal
15720	29.18	38.00	10.72	35.37	42.53	68.20	-25.67	Horizontal
10480	28.30	39.15	8.32	35.78	39.99	54.00	-14.01	Vertical
15720	27.93	38.00	10.72	35.37	41.28	54.00	-12.72	Vertical
10480	24.59	39.15	8.32	35.78	36.28	54.00	-17.72	Horizontal
15720	25.79	38.00	10.72	35.37	39.14	54.00	-14.86	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	34.03	38.96	8.27	35.64	45.62	68.20	-22.58	Vertical
15540	34.80	38.40	10.57	35.35	48.42	68.20	-19.78	Vertical
10360	32.64	38.96	8.27	35.64	44.23	68.20	-23.97	Horizontal
15540	33.05	38.40	10.57	35.35	46.67	68.20	-21.53	Horizontal
10360	26.87	38.96	8.27	35.64	38.46	54.00	-15.54	Vertical
15540	24.53	38.40	10.57	35.35	38.15	54.00	-15.85	Vertical
10360	25.00	38.96	8.27	35.64	36.59	54.00	-17.41	Horizontal
15540	22.31	38.40	10.57	35.35	35.93	54.00	-18.07	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	37.02	39.01	8.29	35.67	48.65	68.20	-19.55	Vertical
15600	33.56	38.30	10.62	35.36	47.12	68.20	-21.08	Vertical
10400	33.46	39.01	8.29	35.67	45.09	68.20	-23.11	Horizontal
15600	33.93	38.30	10.62	35.36	47.49	68.20	-20.71	Horizontal
10400	29.51	39.01	8.29	35.67	41.14	54.00	-12.86	Vertical
15600	27.99	38.30	10.62	35.36	41.55	54.00	-12.45	Vertical
10400	24.29	39.01	8.29	35.67	35.92	54.00	-18.08	Horizontal
15600	26.76	38.30	10.62	35.36	40.32	54.00	-13.68	Horizontal

	A A A A A A A A							
	802.1	1ac(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	32.49	39.15	8.32	35.78	44.18	68.20	-24.02	Vertical
15720	33.34	38.00	10.72	35.37	46.69	68.20	-21.51	Vertical
10480	34.18	39.15	8.32	35.78	45.87	68.20	-22.33	Horizontal
15720	34.02	38.00	10.72	35.37	47.37	68.20	-20.83	Horizontal
10480	27.30	39.15	8.32	35.78	38.99	54.00	-15.01	Vertical
15720	27.44	38.00	10.72	35.37	40.79	54.00	-13.21	Vertical
10480	23.61	39.15	8.32	35.78	35.30	54.00	-18.70	Horizontal
15720	24.88	38.00	10.72	35.37	38.23	54.00	-15.77	Horizontal

GTS

	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	37.58	39.01	8.28	35.67	49.20	68.20	-19.00	Vertical
15570	32.89	38.30	10.60	35.36	46.43	68.20	-21.77	Vertical
10380	34.07	39.01	8.28	35.67	45.69	68.20	-22.51	Horizontal
15570	30.83	38.30	10.60	35.36	44.37	68.20	-23.83	Horizontal
10380	26.95	39.01	8.28	35.67	38.57	54.00	-15.43	Vertical
15570	26.32	38.30	10.60	35.36	39.86	54.00	-14.14	Vertical
10380	27.72	39.01	8.28	35.67	39.34	54.00	-14.66	Horizontal
15570	25.32	38.30	10.60	35.36	38.86	54.00	-15.14	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	36.24	39.11	8.31	35.75	47.91	68.20	-20.29	Vertical
15690	33.41	38.10	10.70	35.37	46.84	68.20	-21.36	Vertical
10460	33.06	39.11	8.31	35.75	44.73	68.20	-23.47	Horizontal
15690	30.90	38.10	10.70	35.37	44.33	68.20	-23.87	Horizontal
10460	30.07	39.11	8.31	35.75	41.74	54.00	-12.26	Vertical
15690	29.05	38.10	10.70	35.37	42.48	54.00	-11.52	Vertical
10460	25.09	39.11	8.31	35.75	36.76	54.00	-17.24	Horizontal
15690	27.31	38.10	10.70	35.37	40.74	54.00	-13.26	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	26.46	39.01	8.28	35.67	38.08	54.00	-15.92	Vertical
15570	26.83	38.30	10.60	35.36	40.37	54.00	-13.63	Vertical
10380	28.05	39.01	8.28	35.67	39.67	54.00	-14.33	Horizontal
15570	26.44	38.30	10.60	35.36	39.98	54.00	-14.02	Horizontal

	802.1	1ac(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	33.89	39.11	8.31	35.75	45.56	68.20	-22.64	Vertical
15690	34.30	38.10	10.70	35.37	47.73	68.20	-20.47	Vertical
10460	31.62	39.11	8.31	35.75	43.29	68.20	-24.91	Horizontal
15690	32.82	38.10	10.70	35.37	46.25	68.20	-21.95	Horizontal
10460	28.87	39.11	8.31	35.75	40.54	54.00	-13.46	Vertical
15690	27.44	38.10	10.70	35.37	40.87	54.00	-13.13	Vertical
10460	23.89	39.11	8.31	35.75	35.56	54.00	-18.44	Horizontal
15690	23.78	38.10	10.70	35.37	37.21	54.00	-16.79	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	36.55	39.06	8.29	35.71	48.19	68.20	-20.01	Vertical
15630	33.64	38.20	10.65	35.36	47.13	68.20	-21.07	Vertical
10420	34.77	39.06	8.29	35.71	46.41	68.20	-21.79	Horizontal
15630	33.69	38.20	10.65	35.36	47.18	68.20	-21.02	Horizontal
10420	29.32	39.06	8.29	35.71	40.96	54.00	-13.04	Vertical
15630	27.58	38.20	10.65	35.36	41.07	54.00	-12.93	Vertical
10420	25.21	39.06	8.29	35.71	36.85	54.00	-17.15	Horizontal
15630	26.87	38.20	10.65	35.36	40.36	54.00	-13.64	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:	est mode: Refer to section 5.2 for details					
Test results:	Pass					



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

---END---