

Global United Technology Services Co., Ltd.

Report No.: GTS202010000211F02

TEST REPORT

Applicant: FaceSec Japan Co., Ltd.

Address of Applicant: Libera Iwamotocho Bldg 8F, 3-5-14, Iwamoto-cho, Chiyoda-ku,

Tokyo, 1010032, Japan

Manufacturer: FaceSec Japan Co., Ltd.

Address of Libera Iwamotocho Bldg 8F, 3-5-14, Iwamoto-cho, Chiyoda-ku,

Manufacturer: Tokyo, 1010032, Japan

Factory: CTT CO. LTD

Address of Factory: 197 N, Xinhua Blvd, Tongqiao, Zhongkai, Huizhou,

Guangdong, 516032, P.R. China

Equipment Under Test (EUT)

Product Name: Biometric Recognition Device

Model No.: BRD-WS-BD

Trade Mark: FaceSec

FCC ID: 2AX2F-FBD01WS

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

Date of sample receipt: October 30, 2020

Date of Test: October 30, 2020-December 09, 2020

Date of report issue: December 09, 2020

Test Result: PASS *

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

Authorized Signature:

Robinson Luo Laboratory Manager

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2 Version

Version No.	Date	Description
00	December 09, 2020	Original

Prepared By:	Tiger. Chan	Date:	December 09, 2020
	Project Engineer		
Check By:	Johnson Lux	Date:	December 09, 2020
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	PASS
AC Power Line Conducted Emission	15.207	PASS
Peak Transmit Power	15.407(a)(1)	PASS
Power Spectral Density	15.407(a)(1)	PASS
Undesirable Emission	15.407(b)(6), 15.205/15.209	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.407(b)(1)	PASS
Frequency Stability	15.407(g)	PASS

Remark:

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

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
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	Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.					



5 General Information

5.1 General Description of EUT

Product Name:	Biometric Pec	panition Device			
	Biometric Recognition Device				
Model No.:	BRD-WS-BD				
Serial No.:	FC6NDC1942	0977			
Hardware Version:	P10				
Software Version:	BXMJ_2G_DV	T_2.6.2.28.d.s.u_06221204	l-ota		
Test sample(s) ID:	GTS20201000	0211-1			
Sample(s) Status:	Engineer samp	ole			
Operation Frequency:	Band	Frequency			
	U-NII Band	IEEE 802.11a	5180-5240	4	
	1	IEEE 802.11n/ac 20MHz	5180-5240	4	
		IEEE 802.11n/ac 40MHz	5190-5230	2	
		IEEE 802.11ac 80MHz	5210	1	
	U-NII Band	IEEE 802.11a	5260-5320	4	
	II-A	IEEE 802.11n/ac 20MHz	5260-5320	4	
		IEEE 802.11n/ac 40MHz	5270-5310	2	
		IEEE 802.11ac 80MHz	5290	1	
	U-NII Band	IEEE 802.11a	5500-5700	11	
	II-C	IEEE 802.11n/ac 20MHz	5500-5700	11	
		IEEE 802.11n/ac 40MHz	5510-5670	5	
		IEEE 802.11ac 80MHz	5530-5610	2	
Modulation technology:	OFDM				
Antenna Type:	FPC Antenna				
Antenna gain:	1.54dBi(declare by applicant)				
Power supply:	Input: DC 12.0	Input: DC 12.0V			



Channel lis	Channel list for 802.11a/n(HT20)/ac(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz	
52	5260MHz	56	5280MHz	60	5300MHz	64	5320MHz	
100	5500MHz	104	5520MHz	108	5540MHz	112	5560MHz	
116	5580MHz	120	5600MHz	124	5620MHz	128	5640MHz	
132	5660MHz	136	5680MHz	140	5700MHz			

Channel list	Channel list for 802.11n(HT40)/ac(HT40)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz	54	5270MHz	62	5310MHz
102	5510MHz	110	5550MHz	118	5590MHz	126	5630MHz
134	5670MHz						

Channel list for 802.11ac(HT80)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz	106	5530MHz	122	5610MHz



5.2 Test mode

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(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

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. Registration 381383.

• IC —Registration No.: 9079A

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 with Registration No.: 9079A

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

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, sBaoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	
Supplied by client	Adapter	FSP050-DIBAN2	N/A	

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Additional Instructions

Test Software	QRCT
Power 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



6 Test Instruments list

Radi	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	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021



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.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
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	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

RF C	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	June. 25 2020	June. 24 2021	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021	
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021	

Gene	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date	
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021	
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021	



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 FPC antenna, the best case gain of the antenna is 1.54dBi, 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			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz			
Limit:	,	Limit	(dBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	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 impedance stabilization network coupling impedance for the mare also connected to the mai 500hm/50uH coupling impedate to the block diagram of the testine are checked for maximum maximum emission, the relativinterface cables must be charconducted measurement.	ork(L.I.S.N.). The proveasuring equipment. In power through a LI ance with 500hm termst setup and photograph conducted interference positions of equipmed according to AN	vide a 500hm/50uH The peripheral devices SN that provides a hination. (Please refers hiphs). Both sides of A.C. hice. In order to find the hent and all of the	
Test setup:	Refer	ence Plane		
	AUX Equipment Test table/Insulation pl Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilizati Test table height=0.8m	U.T EMI Receiver	Iter — AC power	
Test Instruments:	Refer to section 5.10 for details			
Test mode:	Refer to section 5.2 for details			
			_	
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.: 1012mbar	
	Temp.: 25 °C Hun AC 120V, 60Hz	nid.: 52%	Press.: 1012mbar	

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

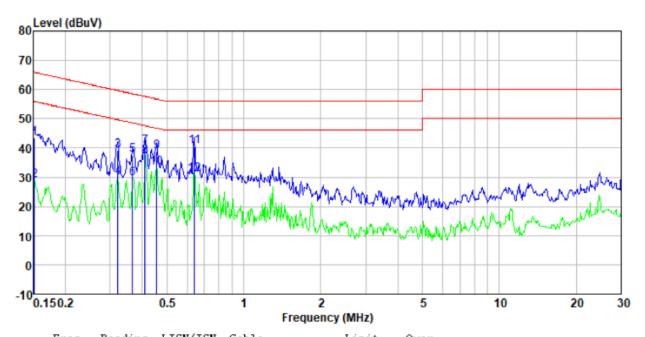
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 11 of 32



Measurement data:

Pre-scan all test modes, found worst case at 802.11a(HT20) 5240MHz, and so only show the test result of 802.11a(HT20) 5240MHz

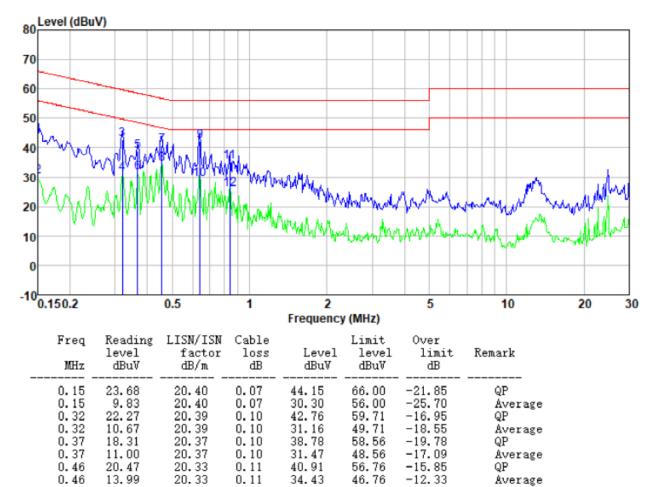
Line:



0.15 22.84 20.40 0.07 43.31 65.91 -22.60 QP 0.15 8.49 20.40 0.07 28.96 55.91 -26.95 Average 0.32 18.67 20.39 0.10 39.16 59.66 -20.50 QP 0.32 9.42 20.39 0.10 29.91 49.66 -19.75 Average 0.37 16.95 20.37 0.10 37.42 58.56 -21.14 QP 0.37 9.09 20.37 0.10 29.56 48.56 -19.00 Average 0.41 20.03 20.35 0.11 40.49 57.64 -17.15 QP 0.41 16.78 20.35 0.11 37.24 47.64 -10.40 Average 0.46 18.32 20.33 0.11 38.76 56.76 -18.00 QP 0.46 12.78 20.33 0.11 33.22 46.76 -13.54 Average 0.64 20.00 20.27 0.12 40.39 56.00 -15.61 QP 0.64 10.35 20.27 0.12 30.74 46.00 -15.26 Average	Freq	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
	0. 15 0. 32 0. 32 0. 37 0. 37 0. 41 0. 41 0. 46 0. 46 0. 64	8. 49 18. 67 9. 42 16. 95 9. 09 20. 03 16. 78 18. 32 12. 78 20. 00	20. 40 20. 39 20. 39 20. 37 20. 37 20. 35 20. 35 20. 33 20. 33 20. 27	0.07 0.10 0.10 0.10 0.10 0.11 0.11 0.11	28. 96 39. 16 29. 91 37. 42 29. 56 40. 49 37. 24 38. 76 33. 22 40. 39	55. 91 59. 66 49. 66 58. 56 48. 56 57. 64 47. 64 56. 76 46. 76 56. 00	-26.95 -20.50 -19.75 -21.14 -19.00 -17.15 -10.40 -18.00 -13.54 -15.61	Äverage QP Average QP Average QP Average QP Average QP



Neutral:



56.00

46.00

56.00

46.00

-13.95

-16.68

-20.90

-20.12

QΡ

QΡ

Average

Average

Notes:

0.64

0.64

0.84

0.84

21.66

14.73

8.93

5.51

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

0.12

0.12

0.14

0.14

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

42.05

29.32

35.10

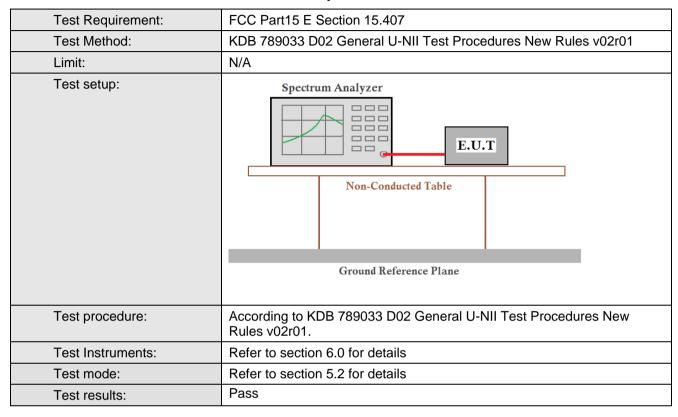
25.88

3. Final Level =Receiver Read level + LISN Factor + Cable Loss

20. 27 20. 27 20. 23 20. 23



7.3 Emission Bandwidth and 99% Occupied Bandwidth



Measurement Data: The detailed test data see Appendix for WIFI 5G



7.4 Peak Transmit Power

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 ≤250mW(23.98dBm) for client device or		
	5250-5350	11dBm+10logB*		
	5470-5725	≤250mW(23.98dBm) for client device or 11dBm+10logB*		
		s the 26dB emission bandwidth in MHz.		
		ucted output power must be measured over any s transmission using instrumentation calibrated in		
	terms of an rms-equi			
Test setup:		E.U.T onducted Table Reference Plane		
Test procedure:	Measurement using	an RF average power meter		
	meter with a t	s may be performed using a wideband RF power hermocouple detector or equivalent if all of the ed below are satisfied		
	a) The EUT is with a constar	s configured to transmit continuously or to transmit nt duty cycle.		
		s when the EUT is transmitting, it must be tits 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.			
		easurement 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 6.0 fo	or details		
Test mode:	Refer to section 5.2 fo	or details		
Test results:	Pass			

Measurement Data: The detailed test data see Appendix for WIFI 5G



7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407				
Test Method:	KDB 789033 D02 General U	J-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 st.			
Test setup:	Spectrum Analyzer Non-Cone	E.U.T			
	Ground Re	ference Plane			
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1 SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power".				
	Use the peak search fur the spectrum.	nction on the instrument to find the peak of			
	Make the following adju applicable:	stments to the peak value of the spectrum, if			
	a) If Method SA-2 or SA	A-2 Alternative was used, add 10 log(1/x), e, to the peak of the spectrum.			
	b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compens for the difference between linear averaging and power averaging				
	4) The result is the PSD.				
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 for WIFI 5G



7.6 Band Edge

Test Requirement:	FCC Part15 E Section 15.407 and 5.205				
Test Method:	ANSI C63.10:201	3			
Test site:	Measurement Dis	stance: 3m (Se	emi-Anecho	ic Chambe	r)
Receiver setup:		,			,
	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Above Toriz	AV	1MHz	3MHz	Average Value
Limit:					·
	Frequen		_imit (dBuV/		Remark
	30MHz-88		40.0		Quasi-peak Value
	88MHz-216		43.5		Quasi-peak Value
	216MHz-96		46.0		Quasi-peak Value
	960MHz-1	GHZ	54.0		Quasi-peak Value
	Above 10	GHz —	54.0		Average Value
			68.2	<u></u>	Peak Value
	 Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emission outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -2 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emission outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -2 dBm/MHz. Devices operating in the 5.25-5.35 GHz band the generate emissions in the 5.15-5.25 GHz band must meet a applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-bar 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 emission outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -2 dBm/MHz. 				
Test Procedure:	 a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. 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 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not 				

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	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.		
Test setup:	For radiated emissions above 1GHz		
	Turn Table (150 cm > 1 Preamplifier (150 cm >		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Remarks:

- 1. Only show the worst case test data.
- 2. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
- 5. 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:

Report No.: GTS202010000211F02

Worse case	Worse case mode:		802.11a		Test channel:		36	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
5150	50.3	-3.63	46.67	68.2	-21.53	peak	Н	
5150	46.62	-3.63	42.99	54	-11.01	AVG	Н	
5150	54.84	-3.63	51.21	68.2	-16.99	peak	V	
5150	46.46	-3.63	42.83	54	-11.17	AVG	V	

Worse case	orse case mode:		802.11a		Test channel:		64	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
5350	52.35	-3.59	48.76	68.2	-19.44	peak	Н	
5350	43.6	-3.59	40.01	54	-13.99	AVG	Н	
5350	54.41	-3.59	50.82	68.2	-17.38	peak	V	
5350	43.48	-3.59	39.89	54	-14.11	AVG	V	

Worse case	Worse case mode:		802.11a		Test channel:		100	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
5460	50.4	-3.54	46.86	68.2	-21.34	peak	Н	
5460	45.31	-3.54	41.77	54	-12.23	AVG	Н	
5460	50.06	-3.54	46.52	68.2	-21.68	peak	V	
5460	41.57	-3.54	38.03	54	-15.97	AVG	V	

Worse case mode:		802.11a		Test channel:		140	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5725	50.9	-3.45	47.45	68.2	-20.75	peak	Н
5725	45.11	-3.45	41.66	54	-12.34	AVG	Н
5725	54.1	-3.45	50.65	68.2	-17.55	peak	V
5725	43.69	-3.45	40.24	54	-13.76	AVG	V



Worse case	Worse case mode:		802.11n(HT20)		Test channel:		36	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
5150	52.98	-3.63	49.35	68.2	-18.85	peak	Η	
5150	46.11	-3.63	42.48	54	-11.52	AVG	Н	
5150	54.9	-3.63	51.27	68.2	-16.93	peak	V	
5150	41.21	-3.63	37.58	54	-16.42	AVG	V	

Worse case	mode:	802.11n(H	Г20)	Test chann	el:	64	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5350	55.46	-3.59	51.87	68.2	-16.33	peak	Н
5350	44.2	-3.59	40.61	54	-13.39	AVG	Н
5350	55.03	-3.59	51.44	68.2	-16.76	peak	V
5350	44.11	-3.59	40.52	54	-13.48	AVG	V

Worse case mode:		802.11n(HT20)		Test channel:		100	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5460	51.21	-3.54	47.67	68.2	-20.53	peak	Н
5460	46.94	-3.54	43.4	54	-10.6	AVG	Н
5460	55.91	-3.54	52.37	68.2	-15.83	peak	V
5460	43.24	-3.54	39.7	54	-14.3	AVG	V

Worse case mode:		802.11n(HT20)		Test channel:		140	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5725	55.44	-3.45	51.99	68.2	-16.21	peak	Н
5725	41.25	-3.45	37.8	54	-16.2	AVG	Н
5725	50.48	-3.45	47.03	68.2	-21.17	peak	V
5725	43.41	-3.45	39.96	54	-14.04	AVG	V



Worse case	Worse case mode:		802.11n(HT40)		Test channel:		38	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V	
5150	53	-3.63	49.37	68.2	-18.83	peak	Н	
5150	44.32	-3.63	40.69	54	-13.31	AVG	Н	
5150	53.64	-3.63	50.01	68.2	-18.19	peak	V	
5150	42.51	-3.63	38.88	54	-15.12	AVG	V	

Worse case	Worse case mode:		802.11n(HT40)		Test channel:		62	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
5350	52.98	-3.59	49.39	68.2	-18.81	peak	Н	
5350	44.04	-3.59	40.45	54	-13.55	AVG	Н	
5350	50.5	-3.59	46.91	68.2	-21.29	peak	V	
5350	44.66	-3.59	41.07	54	-12.93	AVG	V	

Worse case	mode:	802.11n(HT40)		Test channel:		102	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5460	52.16	-3.54	48.62	68.2	-19.58	peak	Н
5460	42.29	-3.54	38.75	54	-15.25	AVG	Н
5460	52.16	-3.54	48.62	68.2	-19.58	peak	V
5460	43.87	-3.54	40.33	54	-13.67	AVG	V

Worse case mode:		802.11n(HT40)		Test channel:		134	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5725	52.63	-3.45	49.18	68.2	-19.02	peak	Н
5725	43.02	-3.45	39.57	54	-14.43	AVG	Н
5725	52.61	-3.45	49.16	68.2	-19.04	peak	V
5725	44.12	-3.45	40.67	54	-13.33	AVG	V



10poit 110 3102020100002111 02								
Worse case mode:		802.11ac(HT20)		Test channel:		36		
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m) (dB)		H/V	
5150	51.7	-3.63	48.07	68.2	-20.13	peak	Н	
5150	44.16	-3.63	40.53	54	-13.47	AVG	Н	
5150	55.99	-3.63	52.36	68.2	-15.84	peak	V	
5150	43.35	-3.63	39.72	54	-14.28	AVG	V	

Worse case	mode:	802.11ac(H	HT20)	Test channel:		64	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m) (dB)		Type	H/V
5350	55.57	-3.59	51.98	68.2	-16.22	peak	Н
5350	45.34	-3.59	41.75	54	-12.25	AVG	Н
5350	51.21	-3.59	-3.59 47.62		-20.58	peak	V
5350	45.07	-3.59	41.48	54	-12.52	AVG	V

Worse case	mode:	802.11ac		Test chann	el:	100	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5460	55.82	-3.54	52.28 68.2 -15.92		peak	Н	
5460	42.98	-3.54	3.54 39.44		-14.56	AVG	Н
5460	54.16	-3.54	50.62	68.2	-17.58	peak	V
5460	42.23	-3.54	38.69	54	-15.31	AVG	V

Worse case	mode:	802.11ac		Test chann	el:	140	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5725	55.99	-3.45	52.54	68.2	-15.66	peak	Н
5725	45.91	-3.45	42.46	54	-11.54	AVG	Н
5725	55.28	-3.45	51.83	51.83 68.2 -16.37		peak	V
5725	44.67	-3.45	41.22	54	-12.78	AVG	V



10poi(110.: 0102020100002111 02								
Worse case mode:		802.11ac(VHT40)		Test channel:		38		
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m) (dB)		Type	H/V	
5150	53.34	-3.63	49.71	68.2	-18.49	peak	Н	
5150	46.49	-3.63	42.86	54	-11.14	AVG	Н	
5150	55.29	-3.63	51.66	68.2	-16.54	peak	V	
5150	41.38	-3.63	37.75	54	-16.25	AVG	V	

Worse case	mode:	802.11ac(\	2.11ac(VHT40)		Test channel:		62	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V	
5350	50.64	-3.59	47.05	68.2	68.2 -21.15		Н	
5350	43.9	-3.59	40.31	54	-13.69	AVG	Н	
5350	55.26	-3.59	51.67	68.2	-16.53	peak	V	
5350	41.92	-3.59	38.33	54	-15.67	AVG	V	

Worse case	mode:	802.11ac(\	/HT40)	Test channel:		102	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5460	53.27	-3.54	-3.54 49.73 68.2 -1		-18.47	peak	Н
5460	41.29	-3.54 37.75		54	-16.25	AVG	Н
5460	51.28	-3.54 47.74		68.2	-20.46	peak	V
5460	41.55	-3.54	38.01	54	-15.99	AVG	V

Worse case	mode:	802.11ac(VHT40)		Test channel:		134	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	H/V
5725	51.97	-3.45	3.45 48.52 68.2 -19.68		peak	Н	
5725	41.6	-3.45	38.15	54	-15.85	AVG	Н
5725	55.74	-3.45	-3.45 52.29 68		-15.91	peak	V
5725	44.82	-3.45 41.37 54 -		-12.63	AVG	V	



Worse case	mode:	802.11ac(\	/HT80)	Test chann	el:	42	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
5150	52.86	-3.63	49.23	68.2	-18.97	peak	Н
5150	44.02	-3.63	40.39	40.39 54 -13.61		AVG	Н
5150	52.06	-3.63	48.43	48.43 68.2 -19.77		peak	V
5150	46.15	-3.63	42.52	54	-11.48	AVG	V
5350	50.52	-3.59	46.93	68.2	-21.27	peak	Н
5350	43.53	-3.59	39.94	54	-14.06	AVG	Н
5350	50.98	-3.59	47.39	68.2	-20.81	peak	V
5350	42.98	-3.59	39.39	54	-14.61	AVG	V

Worse case	mode:	802.11ac(\	/HT80)	Test channel:		106	
Frequenc y	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m) (dB)		Туре	H/V
5460	52.31	-3.54	48.77	68.2	-19.43 peak		Н
5460	42.31	-3.54	38.77	54 -15.23		AVG	Н
5460	55.16	-3.54	51.62	68.2 -16		peak	V
5460	43.59	-3.54	40.05	54	-13.95	AVG	V
5725	50.49	-3.45	47.04	68.2	-21.16	peak	Н
5725	41.17	-3.45	37.72	54	-16.28	AVG	Н
5725	55.57	-3.45	52.12	68.2	-16.08	peak	V
5725	44.47	-3.45	41.02	54	-12.98	AVG	V



7.7 Radiated Emission

Test Requirement:	FCC Part15 C Sec	ction 15	5.209 an	nd 15.205						
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	9kHz to 40GHz									
Test site:	Measurement Dist	ance: 3	3m (Sen	ni-Anechoi	c Chamber)					
Receiver setup:	Frequency		ector	RBW	VBW	Value				
	9kHz-150KHz	Quas	i-peak	200Hz	1kHz	Quasi-peak Value				
	150kHz-30MHz	Quas	i-peak	9kHz	30kHz	Quasi-peak Value				
	30MHz-1GHz	<u> </u>								
	Above 1GHz		eak	1MHz	3MHz	Peak Value				
	ADOVE 10112 AV 1MHz 3MHz Average V									
Limit:	Frequency	Measurement Distance								
	0.009MHz-0.490	MHz	2400	/F(KHz)	QP	300m				
	0.490MHz-1.705	MHz	24000)/F(KHz)	QP	30m				
	1.705MHz-30N	1Hz	;	30	QP	30m				
	30MHz-88MH	30MHz-88MHz 100 QP								
	88MHz-216M	88MHz-216MHz 150 QP								
	216MHz-960M	lHz	2	200	QP					
	960MHz-1GH	960MHz-1GHz 500 QP								
			5	500	Average					
	Above 1GHz									
Test Procedure:	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 are set to make the measurement. 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 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported									

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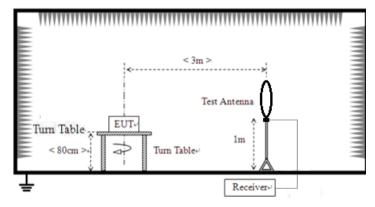


- 1. On the test site as test setup graph above, the EUT shall be placed at the 0.8m support on the turntable and in the position closest to normal use as declared by the provider.
- The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency 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.

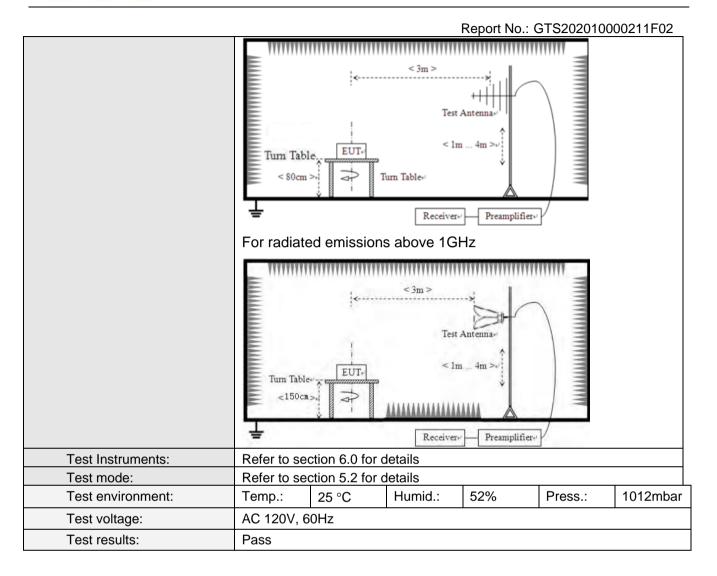
Test setup:

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:

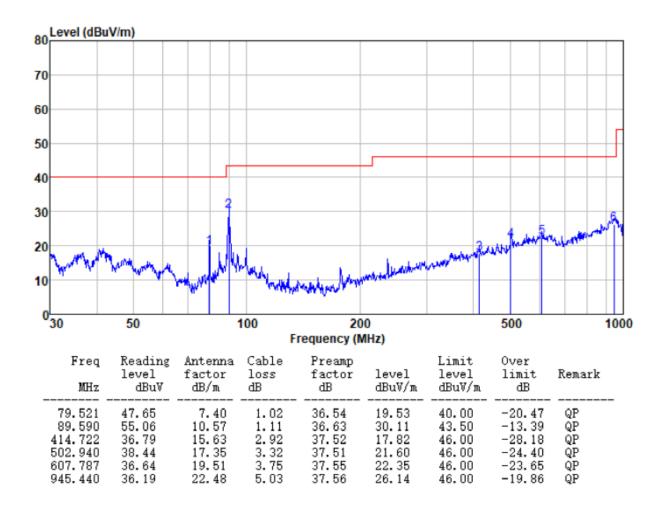
9 kHz ~ 30 MHz

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(HT20) 5240MHz, and so only show the test result of 802.11a(HT20) 5240MHz

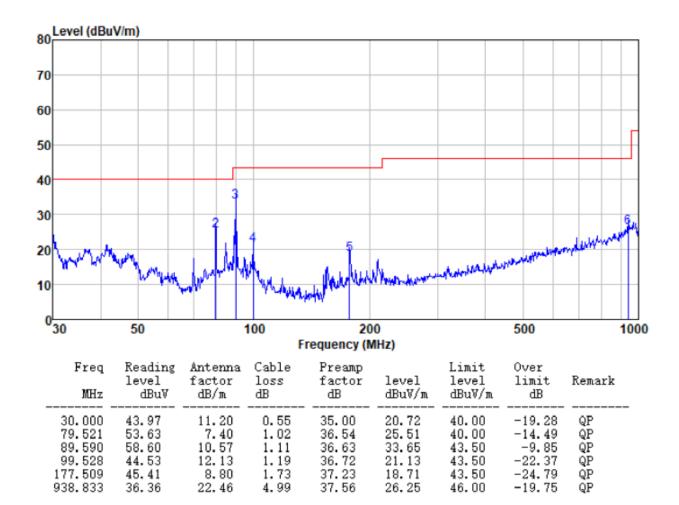
Horizontal:





Vertical:

Report No.: GTS202010000211F02





Above 1GHz:

Worse case	Worse case mode:		802.11ac(VHT80)		channel:	42		
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
10420.00	36.8	39.06	8.29	35.71	48.44	68.2	-19.76	Vertical
15630.00	35.17	38.2	10.65	35.36	48.66	68.2	-19.54	Vertical
10420.00	36.76	39.06	8.29	35.71	48.4	68.2	-19.8	Horizontal
15630.00	37.92	38.2	10.65	35.36	51.41	68.2	-16.79	Horizontal
10420.00	27.51	39.06	8.29	35.71	39.15	54	-14.85	Vertical
15630.00	26.3	38.2	10.65	35.36	39.79	54	-14.21	Vertical
10420.00	26.83	39.06	8.29	35.71	38.47	54	-15.53	Horizontal
15630.00	25.48	38.2	10.65	35.36	38.97	54	-15.03	Horizontal

Worse case mode:		802.11ac(VHT80)		Test channel:		10)6	
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
11060.00	35.42	39.31	8.56	36.39	46.9	68.2	-21.3	Vertical
16590.00	38.73	39.38	11.08	35.96	53.23	68.2	-14.97	Vertical
11060.00	35.87	39.31	8.56	36.39	47.35	68.2	-20.85	Horizontal
16590.00	34.76	39.38	11.08	35.96	49.26	68.2	-18.94	Horizontal
11060.00	27.1	39.31	8.56	36.39	38.58	54	-15.42	Vertical
16590.00	25.38	39.38	11.08	35.96	39.88	54	-14.12	Vertical
11060.00	26.01	39.31	8.56	36.39	37.49	54	-16.51	Horizontal
16590.00	27.7	39.38	11.08	35.96	42.2	54	-11.8	Horizontal

Worse case mode:		802.11ac(VHT80)		Test channel:		122		
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
11220.00	37.35	39.34	8.62	36.36	48.95	68.2	-19.25	Vertical
16830.00	37.96	39.58	11.13	36.17	52.5	68.2	-15.7	Vertical
11220.00	35.18	39.34	8.62	36.36	46.78	68.2	-21.42	Horizontal
16830.00	37.13	39.58	11.13	36.17	51.67	68.2	-16.53	Horizontal
11220.00	26.52	39.34	8.62	36.36	38.12	54	-15.88	Vertical
16830.00	26.66	39.58	11.13	36.17	41.2	54	-12.8	Vertical
11220.00	27.69	39.34	8.62	36.36	39.29	54	-14.71	Horizontal
16830.00	26.02	39.58	11.13	36.17	40.56	54	-13.44	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.
- 3. all were test, only the worst data recorded 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: The detailed test data see Appendix for WIFI 5G



8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

---END---

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