GTS Global United Technology Services Co., Ltd.

Report No.: GTSL202110000182F05

TEST REPORT

Applicant:	Shenzhen Ezhang Technology Co., Ltd.
Address of Applicant:	1504, Block C, Tianli Central Business Building, Yuehai Street, Nanshan District, Shenzhen
Manufacturer/Factory:	Shenzhen Ezhang Technology Co., Ltd.
Address of Manufacturer/Factory: Equipment Under Test (E	1504, Block C, Tianli Central Business Building, Yuehai Street, Nanshan District, Shenzhen E UT)
Product Name:	Mini pc
Model No.:	DK08, DK01, DK02, DK03, DK04, DK05, DK06, DK07, DK09, DK10
Trade Mark:	JUSAKA
FCC ID:	2A3IF-DK08
Applicable standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
Date of sample receipt:	Sep. 28,2021
Date of Test:	Sep. 28,2021-Oct. 29,2021
Date of report issued:	Oct. 29,2021
Test Result :	PASS *

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

Authorized Signature:



Laboratory Manager

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.



2 Version

Version No.	Date	Description
00	Oct. 29,2021	Original
1 1 1 1 1 1 1 1 1 1	0 1 1 2 0 1 1 2 0	1111111111
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	
	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1	11111111111	11211111111

Prepared By:

Date:

Oct. 29,2021

Check By:

oppuson (un) Reviewer

Project Engineer

Date:

Oct. 29,2021

GTS

Report No.: GTSL202110000182F05

3 Contents

		Page
1	COVER PAGE	1
2	VERSION	
3	CONTENTS	
4	TEST SUMMARY	4
	4.1 MEASUREMENT UNCERTAINTY	4
5	GENERAL INFORMATION	5
	5.1 GENERAL DESCRIPTION OF EUT	5
	5.2 TEST MODE	
	5.3 DESCRIPTION OF SUPPORT UNITS	
	5.4 DEVIATION FROM STANDARDS	
	5.5 ABNORMALITIES FROM STANDARD CONDITIONS	
	5.6 Environmental conditions	7
	5.7 TEST FACILITY	8
	5.8 TEST LOCATION	8
6	TEST INSTRUMENTS LIST	9
7	TEST RESULTS AND MEASUREMENT DATA	11
	7.1 ANTENNA REQUIREMENT	
	7.2 CONDUCTED EMISSIONS	
	7.3 CONDUCTED PEAK OUTPUT POWER	
	7.4 CHANNEL BANDWIDTH	
	7.5 Power Spectral Density	
	7.6 BAND EDGE	
	7.6.1 Radiated Emission Method	
	7.7 Spurious Emission	
	7.7.1 Radiated Emission Method	
	7.8 FREQUENCY STABILITY	51
8	ТЕЅТ ЅЕТUР РНОТО	53
9	EUT CONSTRUCTIONAL DETAILS	53

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Maximum Conducted Output Power	15.407(a)(3)	Pass
6dB Bandwidth	15.407(e)	Pass
Power Spectral Density	15.407(a)(3)	Pass
Band Edge	15.407(b)(4)	Pass
Spurious Emission	15.205/15.209/15.407(b)(4)	Pass
Frequency Stability	15.407(g)	Pass

Remarks:

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

2. Test according to ANSI C63.10:2013.

4.1 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)	



5 General Information

5.1 General Description of EUT

Product Name:	Mini pc
Model No.:	DK08
Serial models:	DK01, DK02, DK03, DK04, DK05, DK06, DK07, DK09, DK10
Model Declaration:	PCB board, structure and internal of these model(s) are the same,
	So no additional models were tested.
Test sample(s) ID:	GTSL202110000182-1
Sample(s) Status:	Engineer sample
Hardware Version:	A1
Software Version:	windows10
Operation Frequency:	802.11a/802.11n(HT20)/802.11ac(HT20): 5745MHz ~ 5825MHz
	802.11n(HT40)/ 802.11ac(HT40): 5755MHz ~ 5795MHz
	802.11ac(HT80): 5775MHz
Channel numbers:	802.11a/802.11n(HT20)/802.11ac(HT20): 5
	802.11n(HT40)/ 802.11ac(HT40): 2
	802.11ac(HT80): 1
Channel bandwidth:	802.11a/802.11n(HT20)/802.11ac(HT20) : 20MHz
	802.11n(HT40)/802.11ac(HT40): 40MHz
	802.11ac(HT80): 80MHz
Modulation technology:	802.11a/802.11n(H20)/802.11n(H40)/802.11ac(HT20)/802.11ac(HT40)/802.11ac(HT80):
	Orthogonal Frequency Division Multiplexing (OFDM)
	MIMO: 802.11n/ac
	SISO: 802.11a
Antenna Type:	FPC Antenna1 and FPC Antenna2
Antenna gain:	0.00dBi
Power supply:	DC 19V From External Circuit
Adapter Information:	Mode: HKA18019095-6C
	Input: AC100-240V, 50/60Hz, 2.5A
	Output: DC 19V, 9.47A, 179.93W



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	153	5765MHz	155	5775MHz
157	5785MHz	159	5795MHz	161	5805MHz	163	5815MHz
165	5825MHz	111	1111	111	1111	111	1111

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Testshernel	1 1 1 1 1 1 1	Frequency (MHz)	1 - 1 - 1 - 1 - 1 - 1
Test channel	802.11 a/n/ac(HT20)	802.11 n/ac(HT40)	802.11ac(HT80)
Lowest channel	5745	5755	
Middle channel	5785		5775
Highest channel	5825	5795	



5.2 Test mode

T	Transmitting mode	Keep the EUT in continuously transmitting mode
v	Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report shows that condition's data.	
11	1 1 1 1 1 1	
V	Ne have verified the cons	struction and function in typical operation. All the test modes were carried out

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:

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

Mode	Data rate
802.11a	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13Mbps
802.11ac(HT20)	6.5Mbps
802.11ac(HT40)	13.5Mbps
802.11ac(HT80)	29.3Mbps

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Environmental conditions

During the measurement the environmental conditions were within the listed ranges: Conducted testing:

Temperature:	25.2 ° C
2 3 4 8 2 8 4 8 2 2 1	8 8 8 8 4
Humidity:	52.4 %
1 1 1 1 1 1 1 1 1 1 1	6 6 6 6 6
Atmospheric pressure:	950-1050mbar



5.7 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).

5.8 Test Location

All tests were performed at:

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

Tel: 0755-27798480

Fax: 0755-27798960



6 Test Instruments list

Rad	iated Emission:	1 1 1 1 1 1	1 1 1 1 1 1 3		1 3 1 1	1 1 1 1
ltem	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. 24 2021	June. 23 2022
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 24 2021	June. 23 2022
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022



Cond	ducted Emission	1 1 1 1 1 1	1 1 1 1 1	6 9 9	1 9 9 9	1 1 1 1
ltem	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. 24 2021	June. 23 2022
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 24 2021	June. 23 2022
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 24 2021	June. 23 2022
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. 24 2021	June. 23 2022
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 24 2021	June. 23 2022
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	June. 24 2021	June. 23 2022
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	July. 09 2021	July. 08 2022

RF Conducted Test:

ltem	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. 24 2021	June. 23 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 24 2021	June. 23 2022
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 24 2021	June. 23 2022
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 24 2021	June. 23 2022
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 24 2021	June. 23 2022
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 24 2021	June. 23 2022
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 24 2021	June. 23 2022

Gene	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	June. 24 2021	June. 23 2022		
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022		



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 so e replaced by the user, but the use of a standard antenna jack or electrical
	E.U.T Antenna:	
	The antennas are FPC antenna, details	, the best case gain of the antennas are 0.00dBi, reference to the appendix II for



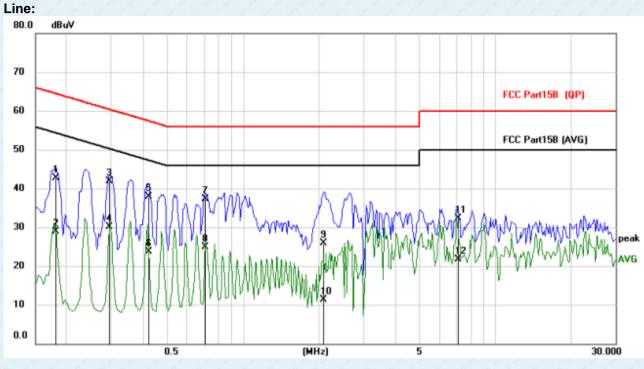
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	1 1 1 1 1	1.1.1	131		
Test Method:	ANSI C63.10:2013	11111	8 8 8	1 1 1		
Test Frequency Range:	150KHz to 30MHz		2 2 2	1 2 1		
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto					
Limit:		Limi	t (dBuV)	1.1.1.1		
	Frequency range (MHz)	Quasi-peak		rage		
	0.15-0.5	66 to 56*		o 46*		
	0.5-5	56		6		
	5-30	60	5	50		
Test setup:	* Decreases with the logarithm Reference Plane	T of the frequency.		1.1.1.1		
Test procedure:	LISN 40cm 80cm AUX Equipment E.U.T Fequipment E.U.T Test table/Insulation plane Remark: E.U.T EQUIPMENT Under Test LISN Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impedence stabilization 2. The peripheral devices are LISN that provides a 50ohm termination. (Please refer to photographs). 3. Both sides of A.C. line are of interference. In order to find	EMI Receiver are connected to the network (L.I.S.N.). edance for the meas also connected to the n/50uH coupling imp o the block diagram checked for maximu	This provide suring equipm he main powe bedance with of the test se um conducted	s a nent. er through a 50ohm etup and		
Test Instruments:	positions of equipment and according to ANSI C63.10:2 Refer to section 6.0 for details	2013 on conducted				
Test mode:	Refer to section 5.2 for details	11111	111	111		
Test environment:	Temp.: 25 °C Hum	nid.: 52%	Press.:	1012mbar		
Test voltage:	AC 120V, 60Hz	11111	1 1 2			
Test results:	Pass	1000	1 8 8 9	1 6 8		
		St. St. St. St. St.	and the second	S. S. S.		

Remark: Both high and low voltages of antenna 1 and antenna 2 have been tested to show only the worst low voltage test data.

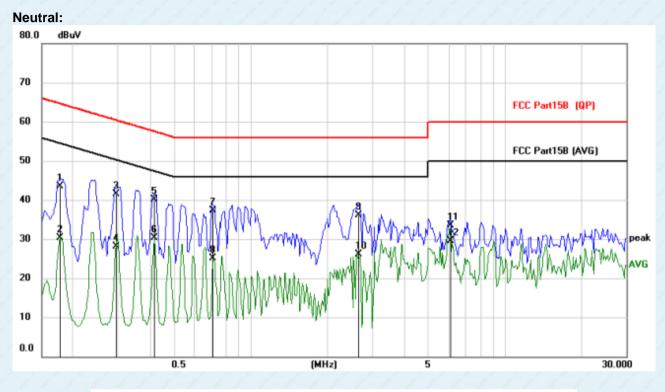


Measurement data



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1812	32.28	10.39	42.67	64.43	-21.76	QP
2		0.1812	18.44	10.39	28.83	54.43	-25.60	AVG
3	*	0.2943	31.55	10.41	41.96	60.40	-18.44	QP
4		0.2943	19.69	10.41	30.10	50.40	-20.30	AVG
5		0.4230	27.46	10.44	37.90	57.39	-19.49	QP
6		0.4230	13.28	10.44	23.72	47.39	-23.67	AVG
7		0.7077	26.46	10.75	37.21	56.00	-18.79	QP
8		0.7077	14.11	10.75	24.86	46.00	-21.14	AVG
9		2.0844	15.17	10.82	25.99	56.00	-30.01	QP
10		2.0844	0.42	10.82	11.24	46.00	-34.76	AVG
11		7.1184	20.86	11.44	32.30	60.00	-27.70	QP
12		7.1184	10.22	11.44	21.66	50.00	-28.34	AVG





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1773	33.23	10.23	43.46	64.61	-21.15	QP
2	0.1773	20.09	10.23	30.32	54.61	-24.29	AVG
3	0.2943	31.23	10.24	41.47	60.40	-18.93	QP
4	0.2943	17.95	10.24	28.19	50.40	-22.21	AVG
5	0.4152	29.72	10.30	40.02	57.54	-17.52	QP
6 *	0.4152	20.04	10.30	30.34	47.54	-17.20	AVG
7	0.7077	26.56	10.65	37.21	56.00	-18.79	QP
8	0.7077	14.47	10.65	25.12	46.00	-20.88	AVG
9	2.6576	25.23	10.84	36.07	56.00	-19.93	QP
10	2.6576	15.33	10.84	26.17	46.00	-19.83	AVG
11	6.0888	22.62	10.91	33.53	60.00	-26.47	QP
12	6.0888	18.67	10.91	29.58	50.00	-20.42	AVG

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.*

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



Test Requirement:	FCC Part15 E Section 15.407(a)(3)	
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	
Limit:	30dBm	
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.2 for details	
Test results: Pass		

7.3 Conducted Peak Output Power

Measurement Data

ANT1:

	Peak Output Power (dBm)								
5	Test CH	802.11a	802.11n (HT20)	802.11ac (HT20)	802.11n (HT40)	802.11ac (HT40)	802.11ac (HT80)	Limit(dBm)	Result
2	Lowest	9.05	9.05	9.03	9.14	9.19	111	111	
2	Middle	9.69	9.65	9.51	19-1-1		9.81	30.00	Pass
2	Highest	8.70	8.72	8.66	9.59	9.63	111	111	1 1

ANT2:

Test CH	802.11a	802.11n (HT20)	802.11ac (HT20)	802.11n (HT40)	802.11ac (HT40)	802.11ac (HT80)	Limit(dBm)	Result
Lowest	6.81	6.75	6.70	6.99	7.01	1 1 1	1 8 8 8	2 8
Middle	7.47	7.40	7.37	1 - 1	14	7.53	30.00	Pass
Highest	5.80	5.70	5.74	7.32	7.28	1 6 6	1111	11

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

GTS

Report No.: GTSL202110000182F05

ANT1+ ANT2:

			802.11n(HT20) mode		
CH No.	Frequency (MHz)	Output Power (dBm) ANT1	Output Power (dBm) ANT2	MIMO Output Power (dBm)	Limit (dBm)	Result
36	5180	9.05	6.75	11.06	30.0	Pass
40	5200	9.65	7.4	11.68	30.0	Pass
48	5240	8.72	5.7	10.48	30.0	Pass
			802.11ac(HT20)) mode		
CH No.	Frequency (MHz)	Output Power (dBm) ANT1	Output Power (dBm) ANT2	MIMO Output Power (dBm)	Limit (dBm)	Result
36	5180	9.03	6.7	11.03	30.0	Pass
40	5200	9.51	7.37	11.58	30.0	Pass
48	5240	8.66	5.74	10.45	30.0	Pass
			802.11n(HT40) mode		
CH No.	Frequency (MHz)	Output Power (dBm) ANT1	Output Power (dBm) ANT2	MIMO Output Power (dBm)	Limit (dBm)	Result
38	5190	9.14	6.99	11.21	30.0	Pass
46	5230	9.59	7.32	11.61	30.0	Pass
			802.11 ac(HT4	0) mode		
CH No.	Frequency (MHz)	Output Power (dBm) ANT1	Output Power (dBm) ANT2	MIMO Output Power (dBm)	Limit (dBm)	Result
38	5190	9.19	7.01	11.25	30.0	Pass
46	5230	9.63	7.28	11.62	30.0	Pass
			802.11 ac(H	IT80)		
CH No.	Frequency (MHz)	Output Power (dBm) ANT1	Output Power (dBm) ANT2	MIMO Output Power (dBm)	Limit (dBm)	Result
42	5210	9.81	7.53	11.83	30.0	Pass

Remark: "---"is not applicable



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 E Section 15.407(e)
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	>500KHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

ANT1:

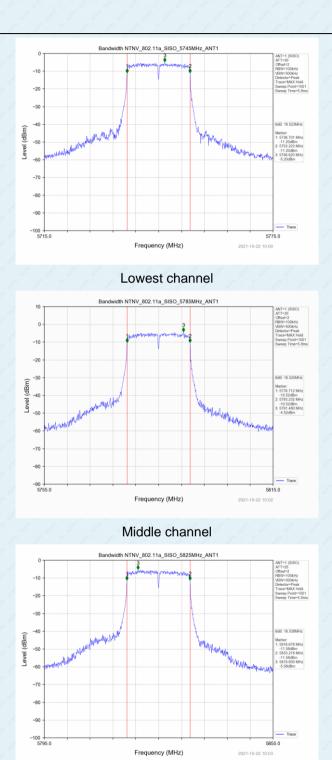
8	-								
2	Test CH	802.11a	802.11n	802.11ac	802.11n	802.11ac	802.11ac	Limit (KHz)	Result
2			(HT20)	(HT20)	(HT40)	(HT40)	(HT80)	()	
	Lowest	16.523	17.720	17.719	36.549	36.505	74.008	>500	1.1.1
	Middle	16.520	17.729	17.751	1 4 1	6 4-6 6			Pass
	Highest	16.538	17.725	17.715	36.460	36.472	1111	11	11.

Remark: "---"is not applicable



Test plot as follows:

Test mode: 802.11a





Test mode: 802.11n(HT20)

Report No.: GTSL202110000182F05

idth NTNV_802.11n(HT20)_SISO_5745MHz_ANT1 c -10 -20 Level (dBm) -40 Lun -70 -80 5775.0 Frequency (MHz) 2021-10-22 09:53 Lowest channel h NTNV_802.11n(HT20)_SISO_5785MHz_ANT1 10 -10 -20 -31 Level (dBm) -40 -60 -70 -80 90 + 5755.0 5815.0 Frequency (MHz) 2021-10-22 09:54 Middle channel _802.11n(HT20) SISO 5825MHz ANT1 -10 -20 -30 -40 (dBm) 5816.082 -11.11dBn 5833.806 -5 Level -60 -70 -80 -90 -100 -5795.0 5855.0 Frequency (MHz)



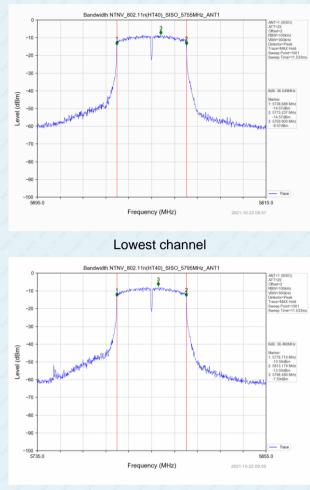
Test mode: 802.11ac(HT20) th NTNV 802.11ac(VHT20) SISO 5745MHz ANT1 c -10 -20 Level (dBm) -4(-70 -80 5775.0 Frequency (MHz) Lowest channel th NTNV_802.11ac(VHT20)_SISO_5785MHz_ANT1 10 -10 -20 -30 Level (dBm) -40 Wowderster -60 -70 -80 90 + 5755.0 5815.0 Frequency (MHz) Middle channel 802.11ac(VHT20) 5825MHz ANT1 -10 -20 -30 -40 Level (dBm) 5816.0 -11.14c -50 -60 -70 -80 -90 -100 -5795.0 5855.0 Frequency (MHz) 2021-10-22 09:47

Highest channel

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

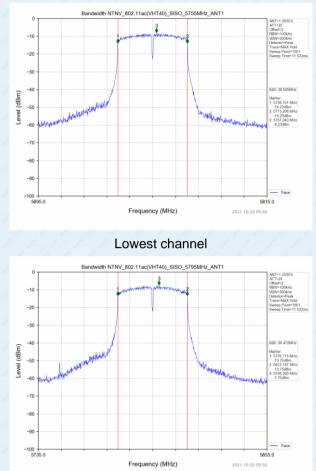


Test mode: 802.11n(HT40)



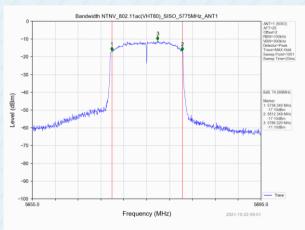


Test mode: 802.11ac(HT40)



Highest channel

Test mode: 802.11ac(HT80)





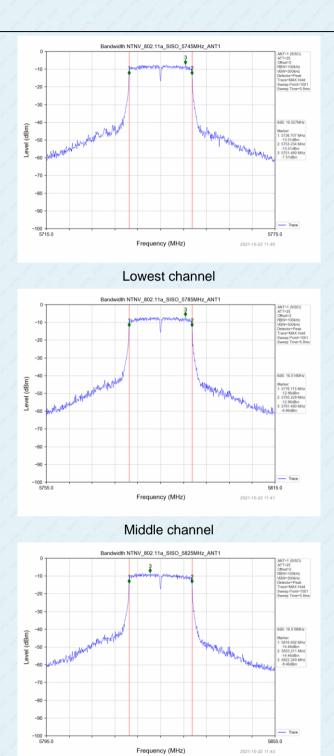
ANT2:	6 8 8 9	1.1.1.2	141	22.10	1 1 1 1	1.1.1		
-								
Test CH	802.11a	802.11n	802.11ac	802.11n	802.11ac	802.11ac	Limit (KHz)	Result
011		(HT20)	(HT20)	(HT40)	(HT40)	(HT80)		
Lowest	16.527	17.724	17.731	36.491	36.499	72.686	>500	Pass
Middle	16.514	17.702	17.776	é 1 1 - 1	1 + 1			
Highest	16.519	17.713	17.740	36.408	36.477			

Remark: "---"is not applicable



Test plot as follows:

Test mode: 802.11a





Test mode: 802.11n(HT20) h NTNV_802.11n(HT20)_SISO_5745MHz_ANT1 3 -10 -20 -30 -40 Level (dBm) -50 UU. -60 -70 -80 -90 -100 -5715.0 5775.0 Frequency (MHz) 2021-10-22 11:33 Lowest channel 302.11n(HT20)_SISO_5785MHz_ANT1 -10 -20 -30 -40 Level (dBm) -50 -70 -80 -90 პ0 ┿ 5755.0 5815.0 Frequency (MHz) Middle channel th NTNV_802.11n(HT20)_SISO_5825MHz_ANT1 -10 -20 -30 -40 Level (dBm) -50 -60 -70 -80 -90 -100 -5795.0 5855.0 Frequency (MHz) 2021-10-22 11:36

Highest channel

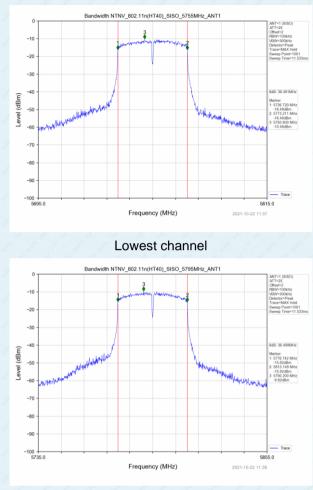
Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode: 802.11ac(HT20) NTNV 802.11ac(VHT20) SISO 5745MHz ANT1 -10 -20 -30 Level (dBm) arker: 5736.111 -13.27dB 5753.842 -50 -70 -80 -90 5775.0 Frequency (MHz) Lowest channel NTNV_802.11ac(VHT20)_SISO_5785MHz_ANT1 -10 -20 -30 -40 Level (dBm) -50 www. -70 -80 -90 პ0 + 5755.0 5815.0 Frequency (MHz) 2021-10-22 11:25 Middle channel h NTNV_802.11ac(VHT20)_SISO_5825MHz_ANT1 -10 -20 -30 -40 Level (dBm) 5816.0 -14.68 5833.8 -50 -60 -70 -80 -90 -100 -5795.0 5855.0 Frequency (MHz) 2021-10-22 11:27

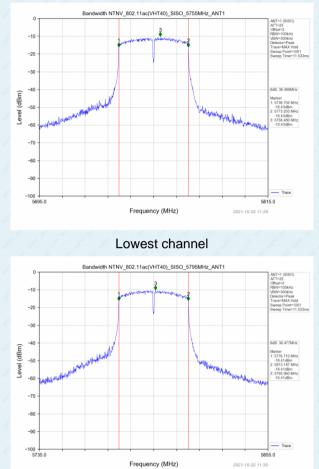


Test mode: 802.11n(HT40)



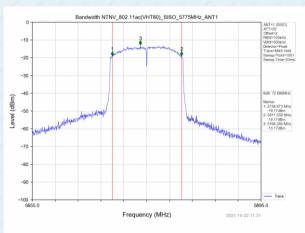


Test mode: 802.11ac(HT40)



Highest channel

Test mode: 802.11ac(HT80)



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



7.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407(a)(3)
Test Method:	ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Limit:	30dBm/500kHz
Test setup:	
	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

ANT1:

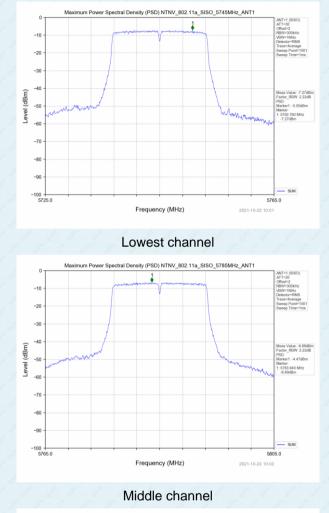
	Power Spectral Density (dBm)							
Test CH	802.11a	802.11n	802.11ac	802.11n	802.11ac	802.11ac (d	(dBm/500k	Result
		(HT20)	(HT20)	(HT40)	(HT40)	(HT80)	Hz)	
Lowest	-5.05	-5.16	-5.32	-7.95	-7.77	-10.89	30.00	Pass
Middle	-4.47	-4.71	-4.57	11-11	/ /			
Highest	-5.02	-5.52	-5.58	-7.41	-7.27	1 1 1		

Remark: "---"is not applicable

Note: Report conducted PSD = measured conducted PSD + Duty Cycle factor + RBW factor; RBW factor = 10 log (500 KHz / 300 KHz) = 2.216 dB;



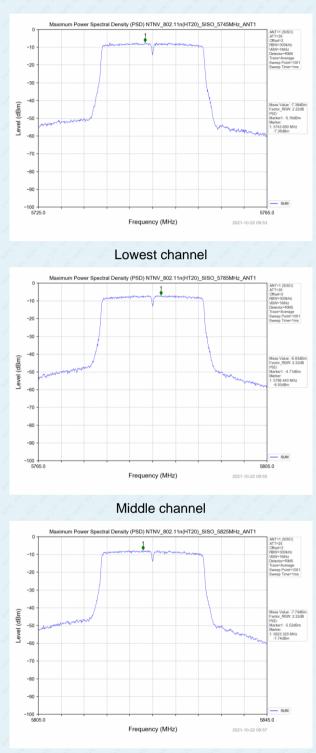
Test plot as follows: Test mode: 802.11a



Maximum Power Spectral Density (PSD) NTVU_202.11a_SISO_S425MHz_ANT1

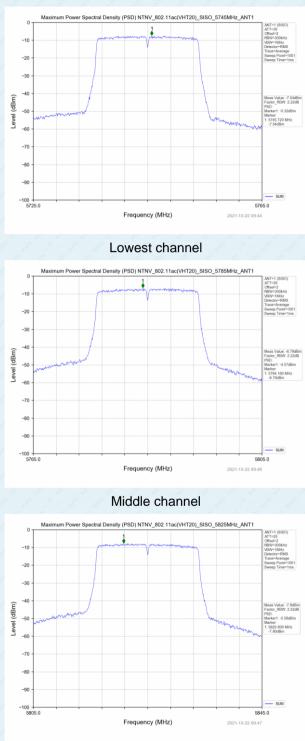


Test mode: 802.11n(HT20)



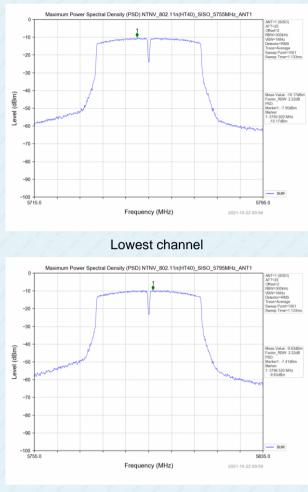


Test mode: 802.11ac(HT20)



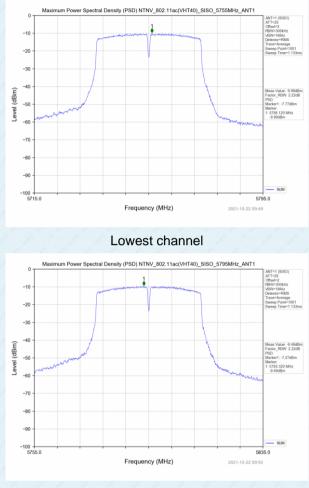


Test mode: 802.11n(HT40)

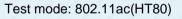


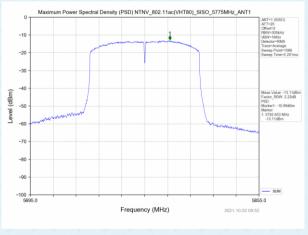


Test mode: 802.11ac(HT40)



Highest channel





Middle channel



ANIZ.									
_	Power Spectral Density (dBm)								
Test CH	802.11a	802.11n	802.11ac	802.11n	802.11ac	802.11ac	Limit (dBm/500k	Result	
0.1		(HT20)	(HT20)	(HT40)	(HT40)	(HT80)	Hz)		
Lowest	-7.12	-7.57	-7.45	-10.05	-10.06	-12.96	30.00	Pass	
Middle	-6.57	-6.73	-6.91	141	6 1-1 1				
Highest	-8.26	-8.29	-8.55	-9.53	-9.46	1.11			

ANT2:

Remark: "---"is not applicable

Note: Report conducted PSD = measured conducted PSD + Duty Cycle factor + RBW factor; RBW factor = 10 log (500 KHz / 300 KHz) = 2.216 dB;

ANT1+ANT2:

			802.11n(HT20) mode						
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz) ANT1	Measured PSD (dBm/MHz) ANT2	MIMO Measured PSD (dBm/MHz)	Limit (dBm)	Result				
36	5180	-5.16	-7.57	-3.19	30.0	Pass				
40	5200	-4.71	-6.73	-2.59	30.0	Pass				
48	5240	-5.52	-8.29	-3.68	30.0	Pass				
802.11ac(HT20) mode										
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz) ANT1	Measured PSD (dBm/MHz) ANT2	MIMO Measured PSD (dBm/MHz)	Limit (dBm)	Result				
36	5180	-5.32	-7.45	-3.25	30.0	Pass				
40	5200	-4.57	-6.91	-2.57	30.0	Pass				
48	5240	-5.58	-8.55	-3.81	30.0	Pass				
			802.11n(HT40) mode						
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz) ANT1	Measured PSD (dBm/MHz) ANT2	MIMO Measured PSD (dBm/MHz)	Limit (dBm)	Result				
38	5190	-7.95	-10.05	-5.86	30.0	Pass				
46	5230	-7.41	-9.53	-5.33	30.0	Pass				
			802.11 ac(HT4	0) mode						
CH No.	Frequency (MHz)	Measured PSD (dBm/MHz) ANT1	Measured PSD (dBm/MHz) ANT2	MIMO Measured PSD (dBm/MHz)	Limit (dBm)	Result				
38	5190	-7.77	-10.06	-5.76	30.0	Pass				
46	5230	-7.27	-9.46	-5.22	30.0	Pass				
			802.11 ac(H	IT80)						

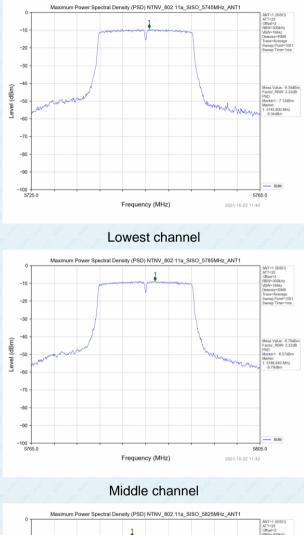
Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

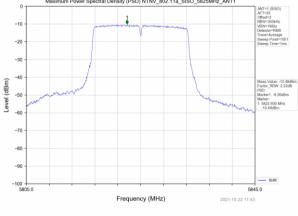


CH No.	Frequency (MHz)	Measured PSD (dBm/MHz) ANT1	Measured PSD (dBm/MHz) ANT2	MIMO Measured PSD (dBm/MHz)	Limit (dBm)	Result
42	5210	-10.89	-12.96	-8.79	30.0	Pass



Test plot as follows: Test mode: 802.11a

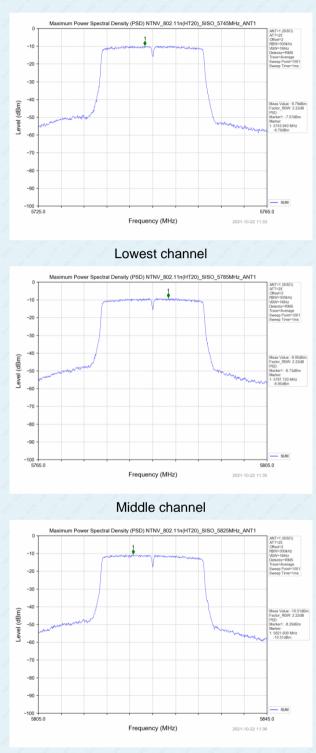




Highest channel



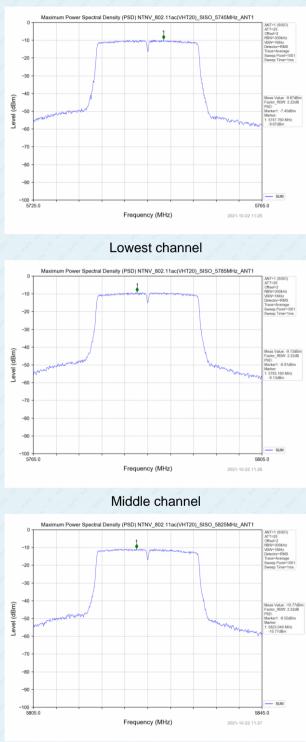
Test mode: 802.11n(HT20)



Highest channel



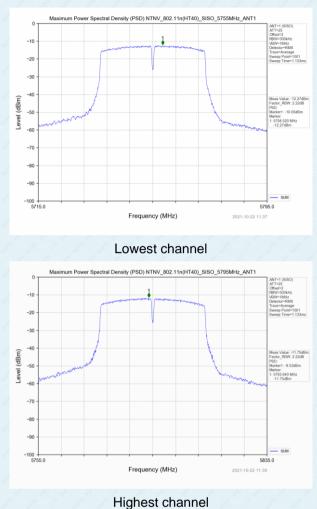
Test mode: 802.11ac(HT20)



Highest channel

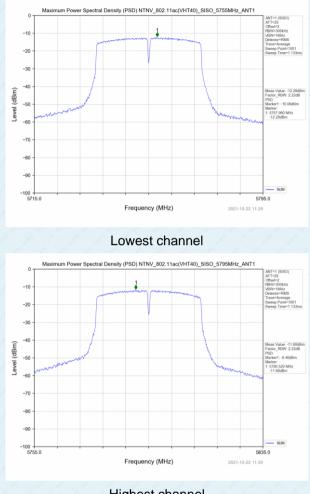


Test mode: 802.11n(HT40)



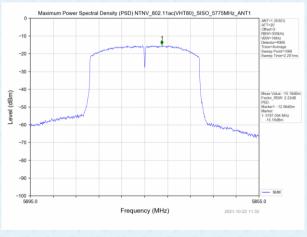


Test mode: 802.11ac(HT40)



Highest channel





Middle channel



7.6 Band edge

7.6.1 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2		2 2 2	1. 1. 1.	1 1 1 1 1		
Test Frequency Range:	9kHz to 40GHz,	only worse cas	se is reporte	d	1 1 5 5 4		
Test site:	Measurement D		1 1 1	8 8 8 9	6 8 8 8 8		
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
		Peak	1MHz	3MHz	Peak		
	Above 1GHz	RMS	1MHz	3MHz	RMS		
Limit:		below the band e or below the l edge increasing elow the band e	edge increa band edge, g linearly to edge, and fr	asing linearly f and from 25 I a level of 15. om 5 MHz ab	to 10 dBm/MHz MHz above or 6 dBm/MHz at 5 pove or below the		
Test setup:	Tum Tables <150cm>	< 3m > EUT+ FUT+ R	Test Antenna- < lm 4m >v ecceiverv Prea	mplifier			
Test Procedure:	 determine the 2. The EUT was antenna, white tower. 3. The antenna ground to det horizontal and measuremen 4. For each sus and then the and the rota to the maximum 5. The test-rece Specified Bar 6. If the emission the limit spect of the EUT we have 10dB me 	a 3 meter cam e position of the s set 3 meters a ch was mounter height is varied termine the max d vertical polari t. pected emissio antenna was turner neading. iver system wa ndwidth with Ma n level of the E ified, then testir ould be reporte	ber. The take highest race way from the d on the top from one ne kimum value zations of the n, the EUT ned to heig d from 0 deg s set to Pea aximum Hole UT in peak ng could be d. Otherwis re-tested of	ble was rotate diation. The interference of a variable meter to four r e of the field s the antenna ar was arranged hts from 1 me grees to 360 of ak Detect Fun d Mode. mode was 10 stopped and e the emission the by one usi	ed 360 degrees to e-receiving -height antenna meters above the strength. Both re set to make the d to its worst case eter to 4 meters degrees to find action and OdB lower than the peak values ons that did not ng peak, quasi-		

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



	And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remarks:

- 1. 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 D02v02r01 section G) 1) d), for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2;

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

E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.

E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.

E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m



Measurement Data:

802.11ac(H	T20)	1.1	1.1.1	РК	РК					
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)	polarizatio n		
5650	51.59	31.9	5.4	35.98	52.91	68.2	-15.29	Horizontal		
5850	52.28	31.96	5.98	35.68	54.54	68.2	-13.66	Horizontal		
5650	49.22	31.9	5.4	35.98	50.54	68.2	-17.66	Vertical		
5850	48.19	31.96	5.98	35.68	50.45	68.2	-17.75	Vertical		

802.11ac(H	T20)	1 1 2	1 1 1	AV	1 1 1	1 2 2	1.1.1	1 6 1
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
5650	33.79	31.9	5.4	35.98	35.11	54	-18.89	Horizontal
5850	34.02	31.96	5.98	35.68	36.28	54	-17.72	Horizontal
5650	33.91	31.9	5.4	35.98	35.23	54	-18.77	Vertical
5850	33.89	31.96	5.98	35.68	36.15	54	-17.85	Vertical

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. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

4. All modes were tested, only recorded the worst case data in the test report.



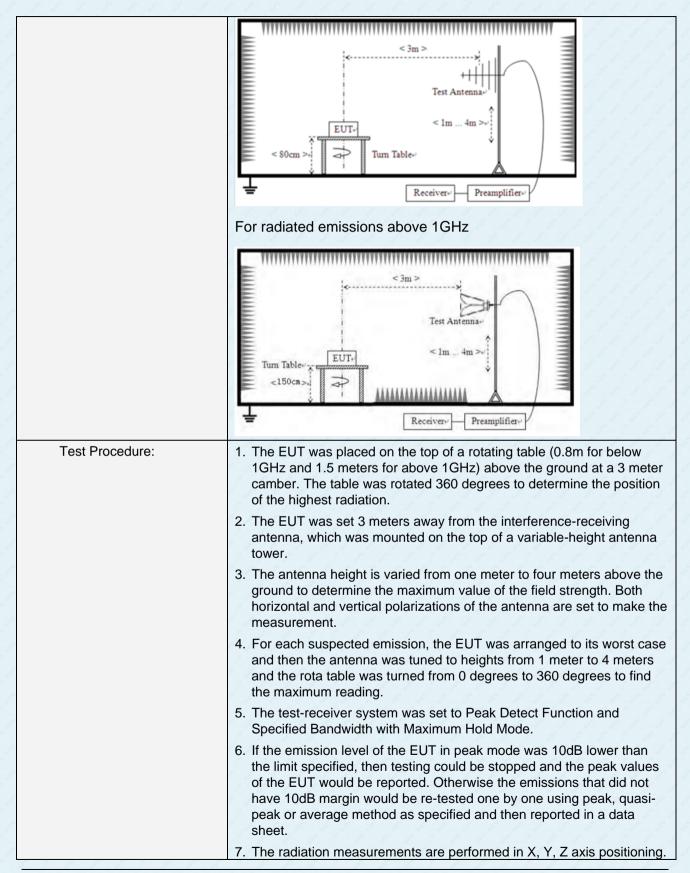
7.7 Spurious Emission

7.7.1 Radiated Emission Method

Test Requirement:	FCC Part15 C Sec	ction 15	.209, Pa	art 15E Sec	ction 15.40	7(b)(4)
Test Method:	ANSI C63.10:2013	3	1	1 1 1	1 5 5	
Test Frequency Range:	9kHz to 40GHz	1 2 .	E. E.	111	1 2 4	1 1 1 1 1
Test site:	Measurement Dist	ance: 3	m	111	2.2	11111
Receiver setup:	Frequency	Dete	ector	RBW	VBW	Value
	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
	Above 1GHz	Pe		1MHz	3MHz	Peak Value
	710070 10112	A	V	1MHz	3MHz	Average Value
Limit:	Frequency		Limit	(uV/m)	Value	Measurement Distance
	0.009MHz-0.490	MHz	2400/	F(KHz)	QP	300m
	0.490MHz-1.705	5MHz	24000	/F(KHz)	QP	300m
	1.705MHz-30M	/IHz	1 1	30	QP	30m
	30MHz-88MH	Ηz	100		QP	11111
	88MHz-216M	Hz	150		QP	0
	216MHz-960M	1Hz	200		QP	- 3m
	960MHz-1GH	Ηz	5	00	QP	
	11111	8 2 .	1 1	1 1 1	1.1	1 1 1 1 1
	Frequency	0 8	Limit (dBm/MH		lz)	Remark
	Above 1GH	z	-27.0		8 8 8	Peak Value
Test setup:	For radiated emi	ssions	from 9	kHz to 30ľ	MHz	
	< 80 cm >		n Table-	st Antenna Im Receiver-		
	For radiated emi	ssions	from 3	0MHz to10	GHz	1 1 1 1 1



Report No.: GTSL202110000182F05



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



		And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.					
Test Instruments:	Refer to s	Refer to section 6.0 for details					
Test mode:	Refer to s	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V,	60Hz	1111	1.1	111	1111	
Test results:	Pass	Pass					

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.
- 2. Antenna 1 and antenna 2 have been tested to show only the worst antenna 1 test data.

Measurement Data:

9 kHz ~ 30 MHz

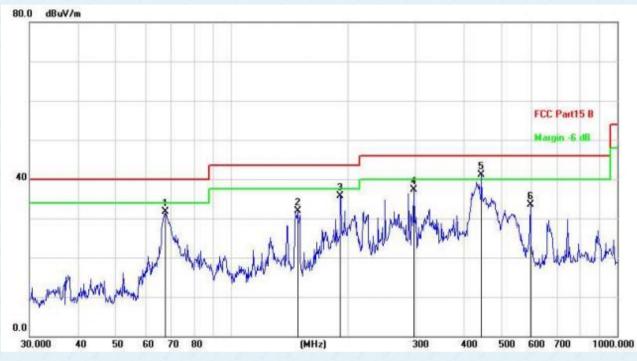
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



Below 1GHz

Pre-scan all test modes, found worst case at 802.11ac(HT80), and so only show the test result of 802.11ac(HT80)

Horizontal:



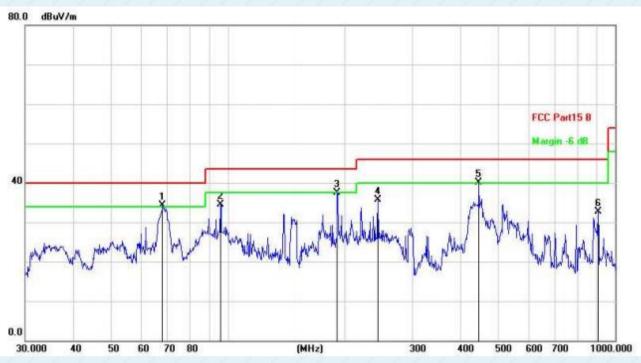
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		67.4381	51.36	-19.63	31.73	40.00	-8.27	QP
2		148.4410	49.57	-17.74	31.83	43.50	-11.67	QP
3		191.7450	55.60	-19.94	35.66	43.50	-7.84	QP
4		297.2241	55.70	-18.38	37.32	46.00	-8.68	QP
5	*	444.8514	57.31	-16.15	41.16	46.00	-4.84	QP
6		595.1326	46.79	-13.34	33.45	46.00	-12.55	QP

Final Level =Receiver Read level + Correct Factor



Report No.: GTSL202110000182F05

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	67.9128	53.89	-19.68	34.21	40.00	-5.79	QP
2		95.7622	55.40	-20.85	34.55	43.50	-8.95	QP
3		191.7450	57.43	-19.94	37.49	43.50	-6.01	QP
4		244.2321	55.16	-19.51	35.65	46.00	-10.35	QP
5	!	444.8514	56.28	-16.15	40.13	46.00	-5.87	QP
6		903.3093	42.15	-9.54	32.61	46.00	-13.39	QP

Final Level =Receiver Read level + Correct Factor



Above 1-40GHz:

Pre-scan all test modes of antenna 1 and antenna 2, found worst case at 802.11ac(HT20), and so only show the test result of 802.11ac(HT20).

Above 1GHz:

802.11ac(HT20) 5745MHz

		8 1 2	Antenna	1 2 2	1 2 2	2. 1. 2	1 8 1	1 1 1	1 2 2
F	requency	Read Level	Factor	Cable Loss	Preamp	Level	Limit Line	Over Limit	polarizatio
	(MHz)	(dBuV)	(dB/m)	(dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	(dB)	n
	15090	32.01	39.71	14.62	32.65	53.69	68.2	-14.51	Vertical
	17235	31.25	38.62	17.66	34.46	53.07	68.2	-15.13	Vertical
	15090	31.06	39.71	14.62	32.65	52.74	68.2	-15.46	Horizontal
	17235	30.88	38.62	17.66	34.46	52.7	68.2	-15.5	Horizontal

802.11ac(HT20) 5755MHz

8 8 8	8 8 8	Antenna	8 8 8	8 8 8	8 8 8	1 8 8	8 8 8	8 8 8
Frequency	Read Level	Factor	Cable Loss	Preamp	Level	Limit Line	Over Limit	polarizatio
(MHz)	(dBuV)	(dB/m)	(dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	(dB)	n
11510	43.59	39.46	8.12	33.85	57.32	68.2	-10.88	Vertical
17265	42.88	38.33	9.58	31.51	59.28	68.2	-8.92	Vertical
11510	42.31	39.46	8.12	33.85	56.04	68.2	-12.16	Horizontal
17265	41.38	38.33	9.58	31.51	57.78	68.2	-10.42	Horizontal

802.11ac(HT20) 5775MHz

	Read Level		Cable Loss	27 C 24		Limit Line	Over Limit	polarizatio
(MHz) 11550	(dBuV) 44.65	(dB/m) 39.67	(dB) 8.19	Factor (dB) 33.74	(dBuV/m) 58.77	(dBuV/m) 68.2	(dB) -9.43	n Vertical
17325	43.28	37.69	9.5	31.43	59.04	68.2	-9.16	Vertical
11550	42.22	39.67	8.19	33.74	56.34	68.2	-11.86	Horizontal
17325	41.09	37.69	9.5	31.43	56.85	68.2	-11.35	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. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)						
Test Method:	ANSI C63.10:2013, FCC Part 2.105	5					
Limit:	stability such that an emission is ma	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.	Temperature Chamber EUT United States of the second					
Test Instruments:	Refer to section 5.10 for details	111111111					
Test mode:	Refer to section 5.2 for details						
Test results:	Pass	111111111					

Remark:

Measured all conditions and recorded worst case.



Measurement data:

IEEE 802.11a Mode / 5745 – 5825 MHz / 5745 MHz

Enviroment Temperature	Voltage	Measured Frequency	Limit Range	
(Dregree)	(V)	(MHz)	(MHz)	Test Results
20	20.9	5744.964576	5725 – 5850	PASS
20	17.1	5744.964047	5725 – 5850	PASS
50	19.0	5744.926486	5725 – 5850	PASS
40	19.0	5744.987663	5725 – 5850	PASS
30	19.0	5744.934372	5725 – 5850	PASS
20	19.0	5744.976471	5725 – 5850	PASS
10	19.0	5744.944765	5725 – 5850	PASS
0	19.0	5744.966916	5725 – 5850	PASS
-10	19.0	5744.974312	5725 – 5850	PASS
-20	19.0	5744.933575	5725 – 5850	PASS
-30	19.0	5744.994782	5725 – 5850	PASS

IEEE 802.11a Mode / 5745 – 5825 MHz / 5825 MHz

Enviroment Temperature (Dregree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	20.9	5824.932794	5725 - 5850	PASS
20	17.1	5824.914014	5725 – 5850	PASS
50	19.0	5824.984101	5725 – 5850	PASS
40	19.0	5824.945475	5725 – 5850	PASS
30	19.0	5824.964403	5725 – 5850	PASS
20	19.0	5824.948001	5725 – 5850	PASS
10	19.0	5824.968467	5725 – 5850	PASS
0	19.0	5824.958169	5725 - 5850	PASS
-10	19.0	5824.942103	5725 – 5850	PASS
-20	19.0	5824.939561	5725 – 5850	PASS
-30	19.0	5824.948633	5725 – 5850	PASS

GTS

Report No.: GTSL202110000182F05

8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

-----END------