

Global United Technology Services Co., Ltd.

Report No.: GTS201806000179F04

FCC REPORT

Applicant: FN-LINK TECHNOLOGY LIMITED

Address of Applicant: No. 8, Litong Road, Liuyang Economic Development Zone,

Liuyang, China

Manufacturer/ Factory: FN-LINK TECHNOLOGY LIMITED

Address of No. 8, Litong Road, Liuyang Economic Development Zone,

Manufacturer/ Factory: Liuyang, China

Equipment Under Test (EUT)

Product Name: Wi-Fi Dual-band 2X2 11ac +Bluetooth V4.2 Module

Model No.: 6222D-UUB

Trade Mark:

FCC ID: 2AATL-6222D-UUB

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

Date of sample receipt: June 19, 2018

Date of Test: June 19, 2018~ July 11, 2018

Date of report issue: July 12, 2018

Test Result: PASS *

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

Authorized Signature:

Robinson Lo 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	July 12, 2018	Original

Prepared By:	Joseph Co	Date:	July 12, 2018
	Project Engineer		
Check By:	Andy w	Date:	July 12, 2018
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	Subpart C 15.203	PASS
AC Power Line Conducted Emission	Subpart C 15.207 & Subpart E 15.407 b(6)	PASS
Maximum Conducted Output Power	Subpart E 15.407(a)	PASS
99% Bandwidth	Subpart E 15.407	PASS
26dB Emission bandwidth	Subpart E 15.407(a)	PASS
Power Spectral Density	Subpart E 15.407(a)	PASS
Undesirable Emission	Subpart E 15.407(b)(6), Subpart C 15.205/15.209	PASS
Radiated Emission	Subpart C 15.209 & Subpart E15.407(b)	PASS
Band Edge	Subpart C 15.205 & Subpart E 15.407(b)	PASS
Frequency Stability	Subpart E 15.407(g)	PASS

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

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	± 4.34dB	(1)			
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)			
Radiated Emission	1GHz ~ 40GHz	± 4.68dB	(1)			
AC Power Line Conducted Emission 0.15MHz ~ 30MHz ± 3.45dB (1)						
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						

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5 General Information

5.1 General Description of EUT

Product Name:	Wi-Fi Dual-band 2	X2 11a	c +Bluetooth V4.2 M	lodule			
Model No.:	6222D-UUB	6222D-UUB					
Serial No.:	FN6222DUUB00001						
Test sample(s) ID:	GTS20180600017	GTS201806000179-1					
Sample(s) Status:	Engineer sample						
Hardware version:	1.0						
Software version:	1.0						
Operation Frequency:				Frequency	Number of		
Operation requestey.	Band		Mode	Range(MHz)	channels		
	U-NII Band I	IEEE 8	302.11a	5180-5240	4		
		IEEE 8	302.11n/ac 20MHz	5180-5240	4		
			302.11n/ac 40MHz	5190-5230	2		
			302.11ac 80MHz	5210	1		
	U-NII Band II-A		302.11a	5260-5320	4		
			302.11n/ac 20MHz	5260-5320	4		
			302.11n/ac 40MHz	5270-5310	2		
			302.11ac 80MHz	5290	1		
	U-NII Band II-C		302.11a	5500-5700	11		
			302.11n/ac 20MHz	5500-5700	11		
			302.11n/ac 40MHz	5510-5670	5 2		
	IEEE 902 11s; OE		802.11ac 80MHz	5530-5610			
Modulation technology:		•	SK/QPSK/16QAM/6	•			
		•	SK/QPSK/16QAM/6	•			
		FDM (B	PSK/QPSK/16QAM	1/64QAIVI/256QA	AIVI)		
Antenna Type:	Chain A		PIFA Antenna				
	Chain B	Chain B					
			5150 MHz to 5250) MHz: 3.79dBi			
	Chain A		5250 MHz to 5350 MHz: 3.83dBi				
Antonno noine			5470 MHz to 5725 MHz: 4.14dBi				
Antenna gain:			5150 MHz to 5250 MHz: 3.79dBi				
	Chain B		5250 MHz to 5350 MHz: 3.83dBi				
			5470 MHz to 5725	MHz: 4.14dBi			
	5150 MHz to 5250) MHz:	6.80dBi				
Directional gain	5250 MHz to 5350) MHz:	6.84dBi				
_	5470 MHz to 5725 MHz:		7.15dBi				
Normal Test Voltage:	DC 3.3V						
Extreme Test Voltage	Min.: DC 3.15V,Max.: 3.45V						
Extreme Test Temperature	-10℃~70℃						
	1 .0 0 .0 0						



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 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

Selected Test Channel for 802.11a/n(HT20)/ac(HT20)					
Band	Channel Frequency				
	The lowest channel (CH36)	5180MHz			
U-NII Band I	The middle channel (CH40)	5200MHz			
	The highest channel (CH48)	5240MHz			
	The lowest channel (CH52)	5260MHz			
U-NII Band II-A	The middle channel (CH60)	5300MHz			
	The highest channel (CH64)	5320MHz			
	The lowest channel (CH100)	5500MHz			
U-NII Band II-C	The middle channel (CH116)	5580MHz			
	The highest channel (CH140)	5700MHz			

Selected Test Channel for 802.11n(HT40)/ac(HT40)					
Band	Channel Frequency				
LL NIII Dand I	The lowest channel (CH38)	5190MHz			
U-NII Band I	The highest channel (CH46)	5230MHz			
II NIII Dand II A	The lowest channel (CH54)	5270MHz			
U-NII Band II-A	The highest channel (CH62)	5310MHz			
	The lowest channel (CH102)	5510MHz			
U-NII Band II-C	The middle channel (CH110)	5550MHz			
	The highest channel (CH134)	5670MHz			

Selected Test Channel for 802.11ac(HT80)					
Band	Channel Frequency				
U-NII Band I	One channel (CH42)	5210MHz			
U-NII Band II-A	NII Band II-A One channel(CH58)				
U-NII Band II-C	The lowest channel (CH106)	5530MHz			
U-IVII Dallu II-C	The highest channel (CH122)	5610MHz			



5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation.
	EUT was test with 99% duty cycle at its maximum power control level.
Remark: During the test, the	ne 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

voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

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

Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	6.5 Mbps
802.11n(HT40)	13.5 Mbps
802.11ac(VHT20)	6.5 Mbps
802.11ac(VHT40)	13.5 Mbps
802.11ac(VHT80)	29.3 Mbps

Keep the EUT in continuously transmitting or receiving with modulation test single.

Mode	802.11a	802.11n	802.11n	802.11ac	802.11ac	802.11ac
	(HT20		(HT40)	(VHT20)	(VHT40)	(VHT80)
TX/RX Function	2TX/2RX	2TX/2RX	2TX/2RX	2TX/2RX	2TX/2RX	2TX/2RX

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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, January 08, 2018.

• Industry Canada (IC) —Registration No.: 9079A-2

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-2, August 15, 2016.

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., 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
IBM Thinkpad	Notebook PC	2374	L3-G0686
Fn-link	Auxiliary PCB	N/A	N/A

5.6 Deviation from Standards

None.

5.7 Abnormalities from Standard Conditions

None.

5.8 Other Information Requested by the Customer

None.

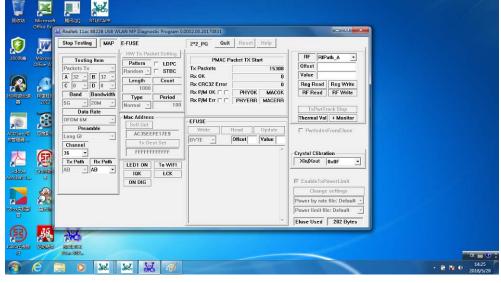
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5.9 Additional Instructions

EUT Software Settings:

Mode	Special software is used. The software provided by client t continuously at specific channel		
Test Software Name	Realtek 11ac 8822B USB WLAN MP	Diagnostic Program 0.000	02.00.20170831
Mode	Channel	Frequency (MHz)	Soft Set
	CH36	5180	
	CH38	5190	
	CH40	5200	
	CH42	5210	
	CH46	5230	
	CH48	5240	
	CH52	5260	
	CH54	5270	
	CH58	5290	
OFDM	CH60	5300	TX level : default
OFDM	CH62	5310	TA level . deladit
	CH64	5320	
	CH100	5500	
	CH102	5510	
	CH106	5530	
	CH110	5550	
	CH116	5580	
	CH122	5610	
	CH134	5670	
	CH140	5700	





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. 03 2015	July. 02 2020			
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. 27 2018	June. 26 2019			
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019			
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019			
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019			
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019			
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019			
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019			
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019			
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019			
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019			
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019			
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019			
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019			
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019			
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019			
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019			



Conduc	Conducted Emission									
Item Test Equipment		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.16 2014	May.15 2019				
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019				
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019				
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019				
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. 27 2018	June. 26 2019				
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019				

Gene	ral 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. 27 2018	June. 26 2019			
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019			



7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement: 47 CFR Part 15, Subpart C 15.203

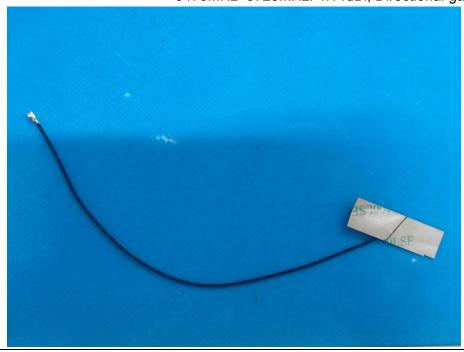
15.203 requirement:

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:

Frequency range and Max Gain:

5150MHz~5250MHz: 3.79dBi, Directional gain: 6.80dBi. 5250MHz~5350MHz: 3.83dBi, Directional gain: 6.84dBi. 5470MHz~5725MHz: 4.14dBi, Directional gain: 7.15dBi.



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7.2 Conducted Emissions

Test Requirement:	47 CFR Part 15, Subpart C 15	5.207 & Subpart E 15.4	07 b(6)			
Test Method:	ANSI C63.10:2013	•	, ,			
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz					
Limit:	[Limit (d	(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.				
	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.					
Test setup:	LISN 40cm		er — AC power			
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.2 for details	·				
Test results:	Pass					

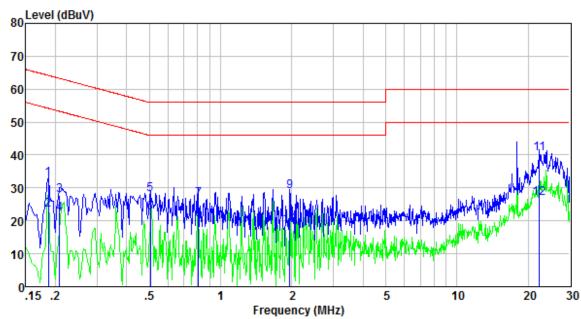
Measurement Data

An initial pre-scan was performed on the line and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Line:

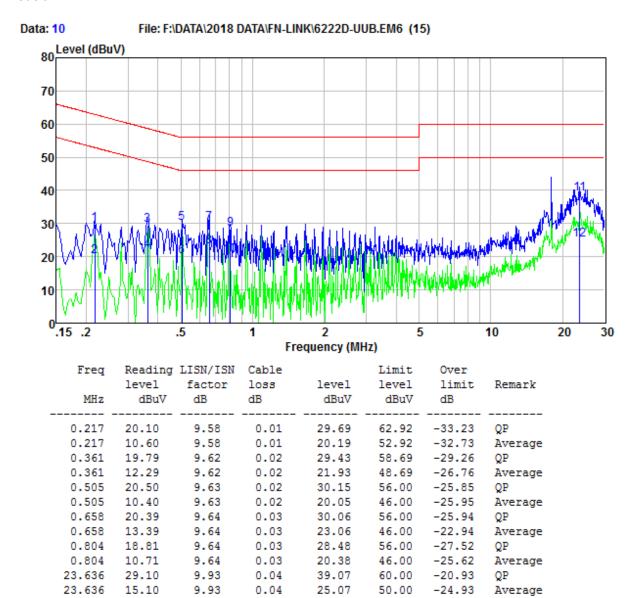




Freq	_	LISN/ISN	Cable	1 1	Limit	Over	Damania
	level	factor	loss	level	level	limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
0.186	23.10	9.56	0.02	32.68	64.20	-31.52	QP
0.186	13.70	9.56	0.02	23.28	54.20	-30.92	Average
0.208	18.20	9.56	0.01	27.77	63.27	-35.50	QP
0.208	12.70	9.56	0.01	22.27	53.27	-31.00	Average
0.505	18.30	9.58	0.02	27.90	56.00	-28.10	QP
0.505	12.70	9.58	0.02	22.30	46.00	-23.70	Average
0.804	16.90	9.59	0.03	26.52	56.00	-29.48	QP
0.804	10.60	9.59	0.03	20.22	46.00	-25.78	Average
1.959	19.30	9.59	0.03	28.92	56.00	-27.08	QP
1.959	9.10	9.59	0.03	18.72	46.00	-27.28	Average
22.298	30.40	9.86	0.05	40.31	60.00	-19.69	QP
22.298	17.10	9.86	0.05	27.01	50.00	-22.99	Average



Neutral:



Notes:

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



7.3 Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15, Subpart E 15.407			
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01			
Limit:	N/A			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.			
Test Instruments:	Refer to section 5.10 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			



Measurement Data:

	U-NII Band I_MIMO									
The w	The worst case test data: Chain A									
011	F	99% Occ	upied E	Bandwi	dth (MHz)	26dB Occ	cupied E	Bandwi	idth (MHz)	
CH. No.	Frequency (MHz)	802.11a		1n(HT 0)	802.11ac(V HT20)	802.11a		1n(HT 0)	802.11ac(V HT20)	
36	5180.00	16.650	17.0	630	17.686	21.11	21.	.19	21.39	
40	5200.00	16.641	17.0	651	17.669	20.96	21.	.16	21.12	
48	5240.00	16.644	17.0	659	17.673	20.95	21.	.71	21.53	
CH.	Frequency	99% Occ	upied E	Bandwi	dth (MHz)	26dB Occupied Bandwidth (MHz)				
No.	(MHz)	802.11n(H	T40)	802.1	l1ac(VHT40)	802.11n(H	T40)	802.1	11ac(VHT40)	
38	5190.00	36.533	,		36.421	43.16			46.03	
46	5230.00	36.496	;	36.497		44.21		43.74		
CH.	CH. Frequency 99% Occupied B		Bandwi	dth (MHz)	26dB Occupied Bandwidth (MHz)					
No.	(MHz)	8	02.11ac	:(VHT8	0)	802.11ac(VHT80)				
42	5210.00		75.	597			11:	5.5		

			U-I	NII B	and II-A_MIMO				
The w	orst case test	data: Chain	A						
CH.	Erogueney	99% Occ	upied Ban	dwi	dth (MHz)	26dB Oc	cupied I	Bandwi	dth (MHz)
No.	Frequency (MHz)	802.11a	802.11n(20)	HT	802.11ac(V HT20)	802.11a		1n(HT 0)	802.11ac(V HT20)
52	5260.00	16.638	17.648	3	17.692	21.36	21	.34	21.61
60	5300.00	16.666	17.67	1	17.714	20.83	22	.21	21.26
64	5320.00	16.682	17.65	5	17.716	21.60	21	.33	21.20
CH.	Frequency	99% Occupied Bandwidth (MHz)				26dB Occupied Bandwidth (MHz)			
No.	(MHz)	802.11n(H	IT40) 802.′		11ac(VHT40)	802.11n(F	IT40)	802.1	l1ac(VHT40)
54	5270.00	36.447	,		36.544	45.72	!		48.28
62	5310.00	36.553	3		36.552	51.06	;		48.39
					<u>.</u>				
CH.	Frequency	99% Occ	upied Ban	dwi	dth (MHz)	26dB Occupied Bandwidth (MHz)			
No.	(MHz)	8	302.11ac(V	НТ8	0)	:	802.11ac	(VHT8	0)
58	5290.00		75.860)			128	3.30	

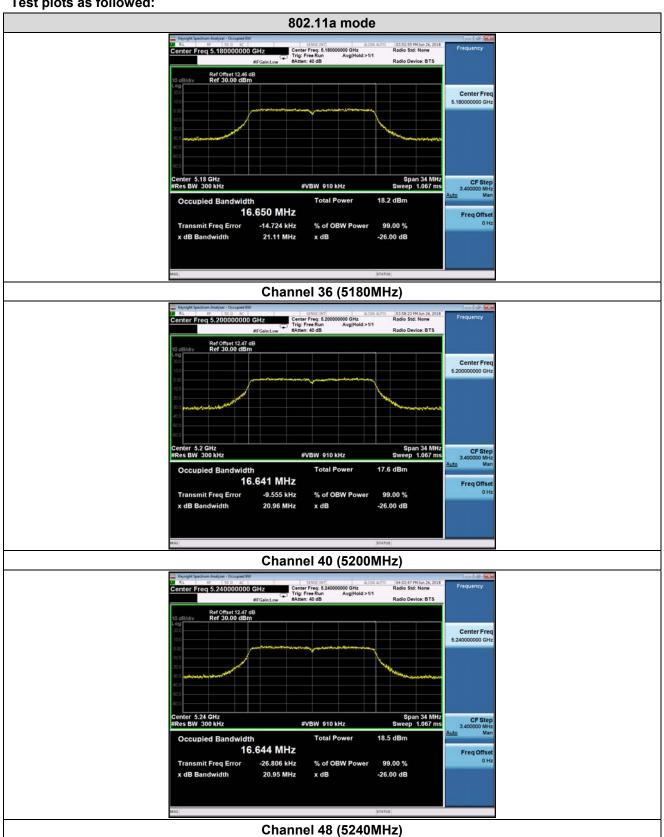


			U-NII	Band II-C_MIMC)			
The w	orst case test	data: Chain '		_				
011	F	99% Occ	upied Band	width (MHz)	26dB Oc	cupied Band	dwidth (MHz)	
CH. No.	Frequency (MHz)	802.11a	802.11n(H ² 20)	Γ 802.11ac(V HT20)	802.11a	802.11n(F 20)	HT 802.11ac(\ HT20)	
100	5500.00	16.713	17.671	17.711	20.93	21.65	21.78	
116	5580.00	16.690	17.695	17.720	20.88	22.18	22.99	
140	5700.00	16.678	17.661	17.731	21.97	21.56	23.84	
	1					1		
CH.	Frequency	99% Occupied Bandwidth (MHz)			26dB Occupied Bandwidth (MHz)			
No.	(MHz)	802.11n(H	T40) 80	2.11ac(VHT40)	802.11n(H	IT40) 80)2.11ac(VHT40)	
102	5510.00	36.538		36.582	51.43	,	54.10	
110	5550.00	36.593		36.635	52.16	i	59.87	
134	5670.00	36.651		36.653	59.20)	56.46	
			,			1		
CH.	Frequency	99% Occ	upied Band	width (MHz)	26dB Occupied Bandwidth (MHz)			
No.	(MHz)	802.11ac(VHT80)		Γ 80)	802.11ac(VHT80)			
106	5530.00		76.035		129.7			
122	5610.00		76.021			129.9		

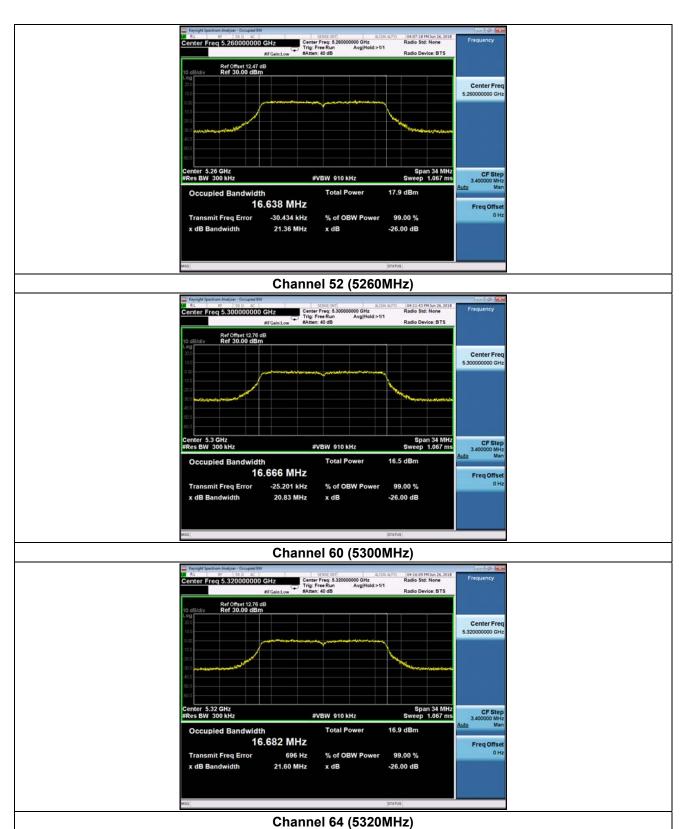
Xixiang Road, Baoan District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test plots as followed:

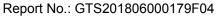






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Channel 100 (5500MHz)

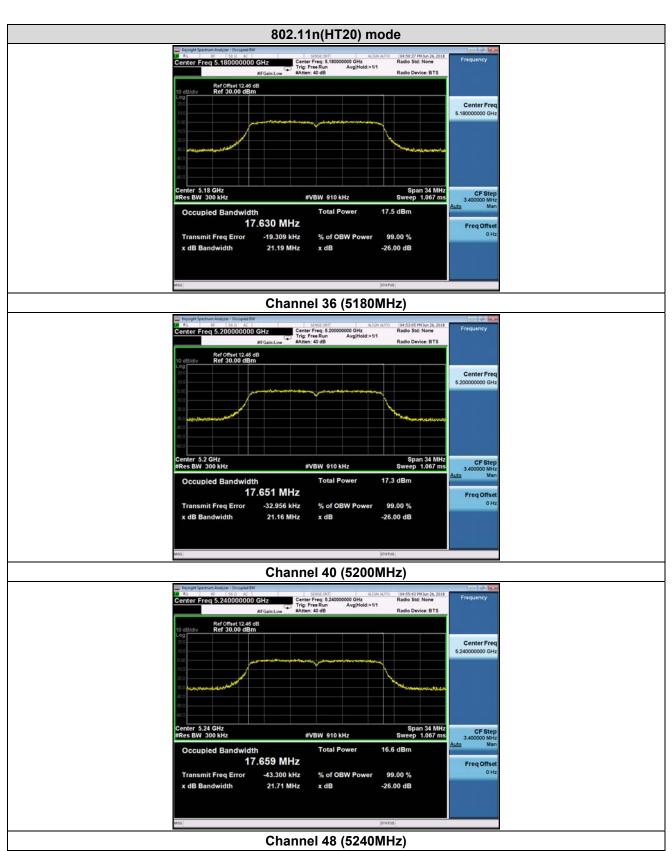


Channel 116 (5580MHz)

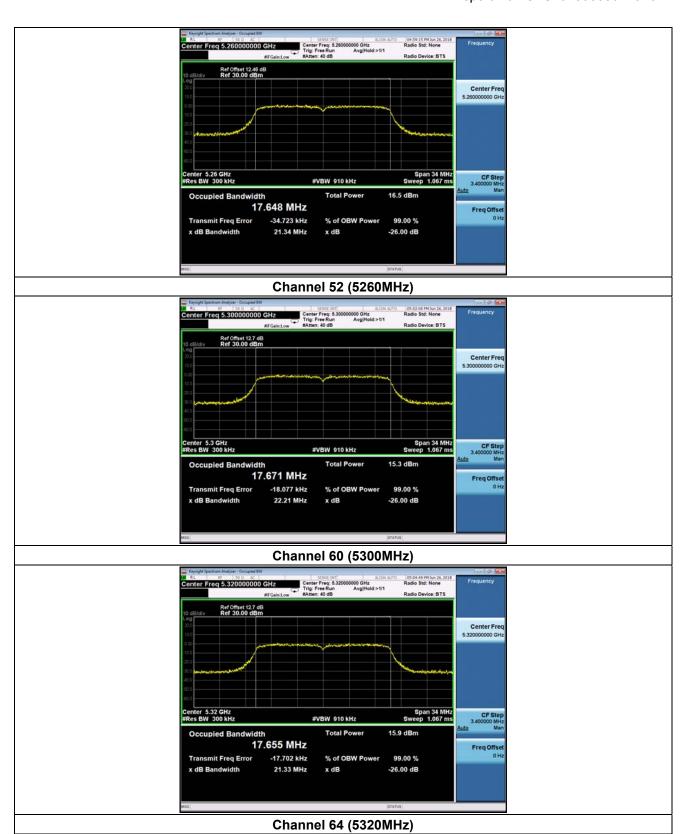


Channel 140 (5700MHz)



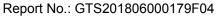






Xixiang Road, Baoan District, Shenzhen, Guangdong, China







Channel 100 (5500MHz)

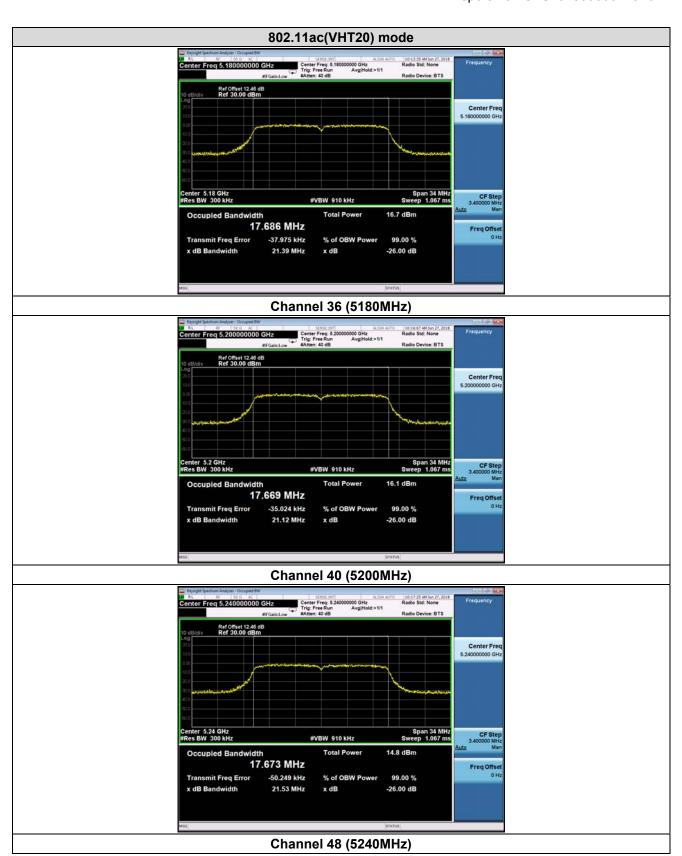


Channel 116 (5580MHz)



Channel 140 (5700MHz)





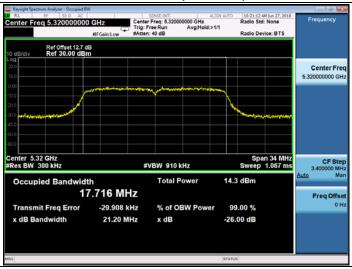




Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

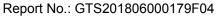
Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

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







Channel 100 (5500MHz)

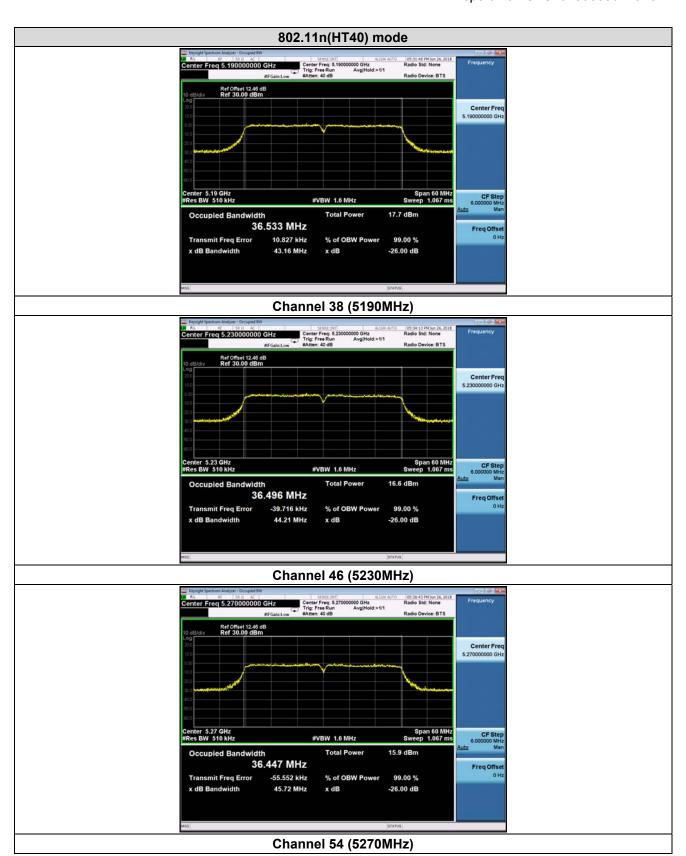


Channel 116 (5580MHz)



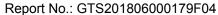
Channel 140 (5700MHz)

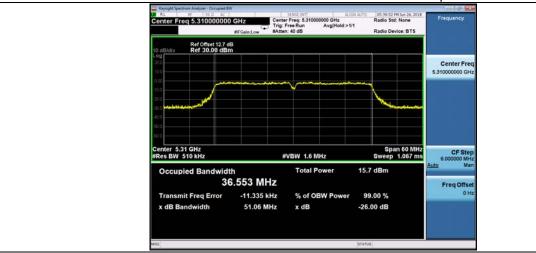




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Channel 62 (5310MHz)

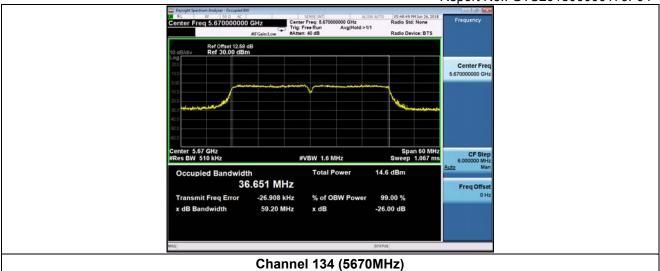


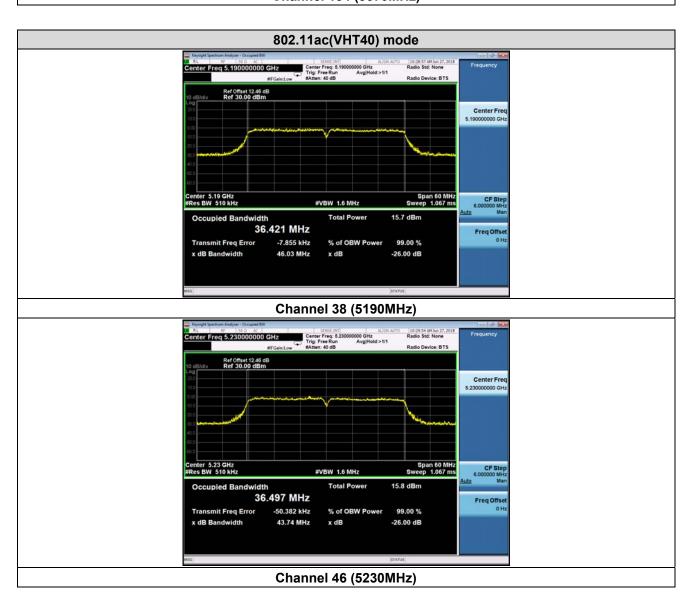
Channel 102 (5510MHz)



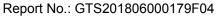
Channel 110 (5550MHz)













Channel 54 (5270MHz)

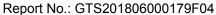


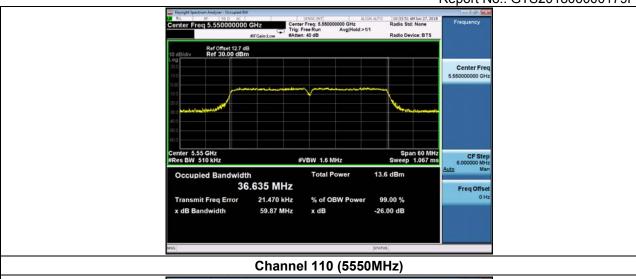
Channel 62 (5310MHz)



Channel 102 (5510MHz)

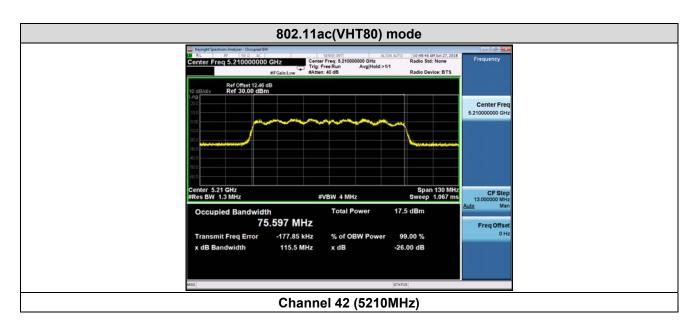




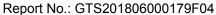


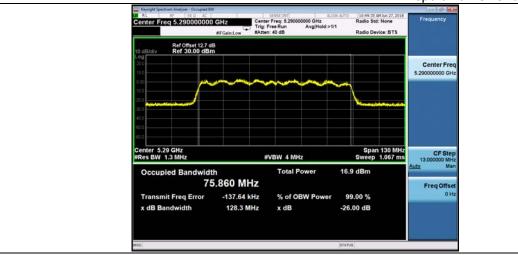


Channel 134 (5670MHz)









Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



7.4 Output Power

Test Requirement:	47 CFR Part 15, Subp	part E 15.407 (a)					
Test Method:	KDB 789033 D02 General 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 dev ce or 11dBm+10lo B*					
	Remark: *Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any						
	The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in						
	terms of an rms-equi						
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane						
Test procedure:	Measurement using	an RF average power meter					
	meter with a t	ts 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 constant	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 lod of the transmitted signal by at least a factor of					
		ter does not transmit continuously, measure the of the transmitter output signal as described in					
		average power of the transmitter. This t is an average over both the on and off periods of er.					
		easurement in dBm by adding 10 log(1/x) where x is e (e.g., 10log(1/0.25) if the duty cycle is 25 percent).					
Test Instruments:	Refer to section 5.10	for details					
Test mode:	Refer to section 5.2 fo	or details					
Test results:	Pass						



Directional gain and the maximum output power limit

FCC 47 CFR Part 15 Subpart E

Frequency Band	Chain A Antenna Gain (dBi)	Chain B Antenna Gain (dBi)	Correlated Chains directional gain	Max Conducted Power Limits(dBm)
U-NII-1	3.79	3.79	6.80	23.20
U-NII-2A	3.83	3.83	6.84	23.16
U-NII-2C	4.14	4.14	7.15	22.85

Basic methodology with Nant transmit antennas, each with the same directional gain Gant dBi, being driven by N ANT transmitter outputs of equal power. Directional gain is to be computed as follows: If any transmit signals are correlated with each other,

Directional gain = G ANT + 10 log(N ANT) dBi



Measurement Data U-NII Band I

U 1111	Dailu I			00 44 11:-			
			8	02.11a MIN	IO mode		T
CH No.	Frequency (MHz)	Measure (dB Chain A		Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result
36	5180.00	11.61	9.73	0.18	13.96	23.20	Pass
40	5200.00	11.12	9.58	0.18	13.61	23.20	Pass
48	5240.00	11.12	11.24	0.18	14.43	23.20	Pass
-10	0240.00	11.2	11.27	0.10	14.40	20.20	1 455
			802.	11n(HT20)	MIMO mode		
		Measure		(Total Output		
CH	Frequency	(dB		Duty	Power Chain A+B	Limit	Result
No.	(MHz)	Chain A	Chain B	Factor	(dBm)	(dBm)	resuit
36	5180.00	10.57	8.68	0.18	12.92	23.20	Pass
40	5200.00	10.55	8.98	0.18	13.03	23.20	Pass
48	5240.00	9.75	9.71	0.18	12.92	23.20	Pass
	1	T		1ac(VHT20)	MIMO mode		
CH No.	Frequency (MHz)	Measure (dB Chain A		Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result
36	5180.00	10.02	8.22	0.18	12.40	23.20	Pass
40	5200.00	9.63	8.05	0.18	12.10	23.20	Pass
48	5240.00	8.61	8.61	0.18	11.80	23.20	Pass
					1 11111		
			802.	11n(HT40)	MIMO mode		
CH No.	Frequency (MHz)	Measure (dB	m)	Duty Factor	Total Output Power Chain A+B	Limit (dBm)	Result
	, ,	Chain A	Chain B		(dBm)	` ,	
38	5190.00	10.79	9.13	0.28	13.33	23.20	Pass
46	5230.00	9.94	9.43	0.28	12.98	23.20	Pass
			222.11	0.01=40	\		
		Manageman		ac(VH140) MIMO mode		
CH	Frequency	Measure (dB		Duty	Total Output Power Chain A+B	Limit	Result
No.	(MHz)	Chain A	Chain B	Factor	(dBm)	(dBm)	
38	5190.00	9.85	8.23	0.35	12.48	23.20	Pass
46	5230.00	9.26	8.83	0.35	12.41	23.20	Pass
	-						-
				ac(VHT80) MIMO mode		
CH No.	Frequency (MHz)	Measure (dB Chain A		Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result
42	5210.00	9.30	8.02	0.60	12.32	23.20	Pass
 _			·				. 5.55

Note: Output Power = Measured Power + Duty Factor

Duty Factor = 10 log (1/Duty Cycle) Total (Chain A+B) = $10*log[(10^{Chain A/10})+(10^{Chain B/10})]$

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U-NII Band II-A

For IEEE 802.11 a/n/ac, the minimum 26 dB emission bandwidth is 20.83 MHz

 $11 \text{ dBm} + 10\log_{10} (20.83) = 24.19 \text{ dBm} > 23.16 \text{ dBm}$

So the 23.16 dB limit applicable

802.11a MIMO mode											
CH No.	Frequency (MHz)	Measure (dB Chain A		Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result				
52	5260.00	10.83	11.47	0.18	14.35	23.16	Pass				
60	5300.00	10.22	11.60	0.18	14.15	23.16	Pass				
64	5320.00	9.60	11.60	0.18	13.90	23.16	Pass				
802.11n(HT20) MIMO mode											
CH No.	Frequency (MHz)	Measure (dB	m)	Duty Factor	Total Output Power Chain A+B	Limit (dBm)	Result				
	, ,	Chain A	Chain B		(dBm)	` ,					
52	5260.00	9.82	10.34	0.18	13.28	23.16	Pass				
60	5300.00	9.20	10.58	0.18	13.13	23.16	Pass				
64	5320.00	9.23	10.77	0.18	13.26	23.16	Pass				
	T			lac(VHT20) MIMO mode	T					
CH No.	Frequency (MHz)	Measure (dB		Duty Factor	Total Output Power Chain A+B	Limit (dBm)	Result				
INO.	(1711 12)	Chain A	Chain B	i actor	(dBm)	(ubiii)					
52	5260.00	8.32	8.95	0.18	11.84	23.16	Pass				
60	5300.00	8.05	9.49	0.18	12.02	23.16	Pass				
64	5320.00	8.13	9.74	0.18	12.20	23.16	Pass				
				11n(HT40)	MIMO mode						
СН	Frequency	Measure (dB		Duty	Total Output Power Chain A+B	Limit	Result				
No.	(MHz)	Chain A	Chain B	Factor	(dBm)	(dBm)					
54	5270.00	9.22	10.14	0.28	12.99	23.16	Pass				
62	5310.00	9.56	10.73	0.28	13.47	23.16	Pass				
						1					
			802.11	ac(VHT40) MIMO mode						
CH No.	Frequency (MHz)	Measure (dB		Duty Factor	Total Output Power Chain A+B	Limit (dBm)	Result				
INO.	(1711 12)	Chain A	Chain B	i actor	(dBm)	(dDIII)					
54	5270.00	8.17	9.10	0.35	12.02	23.16	Pass				
62	5310.00	8.17	9.65	0.35	12.33	23.16	Pass				
			802.11	ac(VHT80) MIMO mode						
CH No.	Frequency (MHz)	Measure (dB	m)	Duty Factor	Total Output Power Chain A+B	Limit (dBm)	Result				
	5000.00	Chain A	Chain B	0.00	(dBm)	00.40	D=				
58	Output Power:	8.50	9.24	0.60	12.50	23.16	Pass				

Note: Output Power = Measured Power + Duty Factor

Duty Factor = 10 log (1/Duty Cycle)

Total (Chain A+B) = $10*log[(10^{Chain A/10})+(10^{Chain B/10})]$



U-NII Band II-C

For IEEE 802.11 a/n/ac, the minimum 26 dB emission bandwidth is 20.88 MHz 11 dBm + $10\log_{10}$ (20.88) = 24.20 dBm > 22.85 dBm

So the 22.85 dB limit applicable

802.11a MIMO mode									
CH No.	Frequency (MHz)	Measure (dB Chain A	d Power	Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result		
100	5500.00	9.63	12.30	0.18	14.36	22.85	Pass		
116	5580.00	8.64	12.14	0.18	13.92	22.85	Pass		
140	5700.00	8.67	10.10	0.18	12.63	22.85	Pass		
			802.	11n(HT20)	MIMO mode				
CH No.	Frequency (MHz)	Measure (dB Chain A		Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result		
400	5500.00			0.40	` ,	00.05	D		
100	5500.00	8.75	11.45	0.18	13.50	22.85	Pass		
116	5580.00	7.87	11.56	0.18	13.29	22.85	Pass		
140	5700.00	6.75	8.55	0.18	10.93	22.85	Pass		
				1ac(VH120) MIMO mode				
CH No.	Frequency (MHz)	Measure (dB Chain A		Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result		
100	5500.00	7.74	10.46	0.18	12.50	22.85	Pass		
116	5580.00	6.82	10.55	0.18	12.26	22.85	Pass		
140	5700.00	6.37	8.39	0.18	10.69	22.85	Pass		
			802.	11n(HT40)	MIMO mode				
CH No.	Frequency (MHz)	Measure (dB Chain A		Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result		
102	5510.00	6.87	9.76	0.28	11.84	22.85	Pass		
110	5550.00	8.07	11.51	0.28	13.41	22.85	Pass		
134	5670.00	8.33	10.51	0.28	12.85	22.85	Pass		
	00.0.00	0.00		0.20					
			802.11	ac(VHT40) MIMO mode				
CH No.	Frequency (MHz)	Measure (dB Chain A	d Power	Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result		
102	5510.00	6.35	9.69	0.35	11.69	22.85	Pass		
110	5550.00	6.75	10.13	0.35	12.12	22.85	Pass		
134	5670.00	7.46	9.65	0.35	12.05	22.85	Pass		
						l.			
			802.11	ac(VHT80) MIMO mode				
CH No.	Frequency (MHz)	Measure (dB Chain A	d Power	Duty Factor	Total Output Power Chain A+B (dBm)	Limit (dBm)	Result		
106	5530.00	5.90	8.89	0.60	11.26	22.85	Pass		
122	5610.00	6.12	9.25	0.60	11.57	22.85	Pass		

Note: Output Power = Measured Power + Duty Factor

Duty Factor = 10 log (1/Duty Cycle)

Total (Chain A+B) = $10*log[(10^{Chain 0/10})+(10^{Chain 1/10})]$



7.5 Power Spectral Density

Test Requirement:	47 CFR Part 15, Subpart E	15.407 (a)					
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01						
Limit:	Frequency band (MHz)	Limit					
	5150-5250	≤17dBm in 1MHz for master device					
		≤11dBm in 1MHz for client device					
	5250-5350	≤11dBm in1MHz for client device					
	5470-5725 ≤11dBm in 1MHz for client device						
	Remark: The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instract to the equipment under test.						
Test setup:	Spectrum Analyzer E.U.T						
Test procedure:	being tested by following measuring maximum contains analyzer or EMI receive SA-2, SA-3, or alternative including, the step label 2) Use the peak search furthe spectrum. 3) Make the following adjunct applicable: 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)	er spectrum for the EUT operating mode 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 estments to the peak value of the spectrum, if exact Alternative was used, add 10 log(1/x), e, to the peak of the spectrum. Inative was used and the linear mode was add 1 dB to the final result to compensate the linear averaging and power averaging.					
Test Instruments:	Refer to section 5.10 for det	tails					
Test mode:	Refer to section 5.2 for deta	nils					
Test results:	Pass						



Directional gain and the maximum output power limit

FCC 47 CFR Part 15 Subpart E

Frequency Band	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains directional gain	PSD Limits (dBm/MHz)
U-NII-1	3.79	3.79	6.80	10.20
U-NII-2A	3.83	3.83	6.84	10.16
U-NII-2C	4.14	4.14	7.15	9.85

Basic methodology with Nant transmit antennas, each with the same directional gain Gant dBi, being driven by N ANT transmitter outputs of equal power. Directional gain is to be computed as follows: If any transmit signals are correlated with each other,

Directional gain = G ANT + 10 log(N ANT) dBi



Measurement Data U-NII Band I

802.11a MIMO mode Measured PSD Channel Frequency Duty Total PSD Limit (dBm/MHz) Result (dBm/MHz) No. (MHz) Factor (dBm/MHz) Chain B Chain A 36 5180.00 1.766 -0.439 0.18 3.99 10.20 Pass 40 5200.00 1.676 0.134 0.18 4.16 10.20 Pass 48 4.79 5240.00 1.543 1.664 0.18 10.20 Pass 802.11n(HT20) MIMO mode Measured PSD Total PSD Channel Frequency Duty Limit (dBm/MHz) Result No. (MHz) Factor (dBm/MHz) (dBm/MHz) Chain A Chain B 36 5180.00 0.18 2.95 10.20 0.691 -1.435**Pass** 40 5200.00 0.788 -0.4700.18 3.39 10.20 **Pass** 48 5240.00 0.201 0.031 0.18 3.31 10.20 **Pass** 802.11ac(VHT20) MIMO mode Measured PSD Channel Frequency Duty Total PSD Limit (dBm/MHz) Result No. (MHz) Factor (dBm/MHz) (dBm/MHz) Chain B Chain A 36 5180.00 0.306 -1.7290.18 2.60 10.20 Pass -0.297 40 5200.00 -1.6020.18 2.29 10.20 **Pass** 48 5240.00 -0.644-0.8650.18 2.44 10.20 Pass 802.11n(HT40) MIMO mode Measured PSD Channel Frequency Duty Total PSD Limit (dBm/MHz) Result No. (MHz) Factor (dBm/MHz) (dBm/MHz) Chain A Chain B 38 5190.00 0.28 0.72 10.20 -1.775 -3.536 Pass 0.28 46 5230.00 -2.103 -2.867 0.82 10.20 Pass 802.11ac(VHT40) MIMO mode Measured PSD Channel Frequency Dutv Total PSD Limit (dBm/MHz) Result No. (MHz) Factor (dBm/MHz) (dBm/MHz) Chain B Chain A -3.014 Pass 38 5190.00 -4.871 0.35 -0.48 10.20 46 5230.00 -3.272 -4.061 0.35 -0.29 10.20 Pass

802.11ac(VHT80) MIMO mode

Duty

Factor

0.60

Total PSD

(dBm/MHz)

-2.22

Note: Total PSD = Measured PSD + Duty Factor

Frequency

(MHz)

5210.00

Channel

No.

38

Duty Factor = 10 log (1/Duty Cycle)

Total (Chain A+B) = $10*\log[(10^{\text{Chain 0/10}})+(10^{\text{Chain 1/10}})]$

Chain A

-5.593

Measured PSD

(dBm/MHz)

Chain B

-6.089

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

Limit

(dBm/MHz)

10.20

Result

Pass

Report No.: GTS201806000179F04



U-NII Band II-A

				1a MIMO	mode						
Channel No.	Frequency (MHz)		ed PSD /MHz) Chain B	Duty Factor	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result				
52	5260.00	1.242	1.892	0.18	4.77	10.16	Pass				
60	5300.00	0.128	2.026	0.18	4.37	10.16	Pass				
64	5320.00	0.122	1.966	0.18	4.33	10.16	Pass				
	802.11n(HT20) MIMO mode										
Channel No.	Frequency (MHz)		ed PSD /MHz) Chain B	Duty Factor	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result				
52	5260.00	-0.124	0.412	0.18	3.34	10.16	Pass				
60	5300.00	-1.053	0.941	0.18	3.25	10.16	Pass				
64	5320.00	-0.808	1.144	0.18	3.47	10.16	Pass				
			802.11ac(\	/HT20) M	MO mode	<u> </u>					
Channel No.	Frequency (MHz)	Measur (dBm/ Chain A	ed PSD /MHz) Chain B	Duty Factor	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result				
52	5260.00	-1.277	-0.842	0.18	2.14	10.16	Pass				
60	5300.00	-1.831	-0.065	0.18	2.33	10.16	Pass				
64	5320.00	-1.629	0.149	0.18	2.54	10.16	Pass				
				HT40) MIN	IO mode	<u> </u>					
Channel No.	Frequency (MHz)	Measur (dBm/ Chain A	ed PSD /MHz) Chain B	Duty Factor	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result				
54	5270.00	-3.491	-2.590	0.28	0.27	10.16	Pass				
62	5310.00	-3.987	-2.149	0.28	0.32	10.16	Pass				
			802.11ac(\	/HT40) MI	MO mode	T					
Channel No.	Frequency (MHz)		ed PSD /MHz) Chain B	Duty Factor	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result				
54	5270.00	-4.733	-3.673	0.35	-0.81	10.16	Pass				
62	5310.00	-5.161	-3.267	0.35	-0.75	10.16	Pass				
		01101									
			802.11ac(\	/HT80) M	IMO mode						
Channel No.	Frequency (MHz)	Measur (dBm/ Chain A	ed PSD	Duty Factor	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result				
58	5290.00	-6.041	-4.692	0.60	-1.70	10.16	Pass				

Note: Total PSD = Measured PSD + Duty Factor

Duty Factor = 10 log (1/Duty Cycle)

Total (Chain A+B) = $10*log[(10^{Chain 0/10})+(10^{Chain 1/10})]$

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U-NII Band II-C

	802.11a MIMO mode										
I		Mogaur	ed PSD	Ta IVIIIVIO	liloue						
Channel	Frequency		eu PSD /MHz)	Duty	Total PSD	Limit	Dogult				
No.	(MHz)	Chain A	Chain B	Factor	(dBm/MHz)	(dBm/MHz)	Result				
100	5500.00	0.157	3.133	0.18	5.09	9.85	Pass				
116	5580.00	-0.174	2.776	0.18	4.74	9.85	Pass				
140	5700.00	-0.174	2.770	0.18	4.74	9.85	Pass				
140	3700.00	-0.439	2.221	0.10	4.20	9.00	F455				
	802.11n(HT20) MIMO mode										
	_	Measur	ed PSD	<u> </u>							
Channel	Frequency		/MHz)	Duty	Total PSD	Limit	Result				
No.	(MHz)	Chain A	Chain B	Factor	(dBm/MHz)	(dBm/MHz)	. 1000.1				
100	5500.00	-0.673	2.329	0.18	4.27	9.85	Pass				
116	5580.00	-1.012	1.895	0.18	3.87	9.85	Pass				
140	5700.00	-1.256	1.213	0.18	3.34	9.85	Pass				
170	0700.00	1.200	1.210	0.10	0.04	0.00	1 455				
			802.11ac(\	VHT20) M	IMO mode						
Channel	Froguency	Measur	ed PSD	Duty	Total PSD	Limit					
No.	Frequency	(dBm	/MHz)	Factor			Result				
NO.	(MHz)	Chain A	Chain B	racioi	(dBm/MHz)	(dBm/MHz)					
100	5500.00	-1.619	1.273	0.18	3.25	9.85	Pass				
116	5580.00	-2.402	0.375	0.18	2.40	9.85	Pass				
140	5700.00	-2.342	0.592	0.18	2.56	9.85	Pass				
			222 44 4								
		1		HT40) MIN	IO mode						
Channel	Frequency Measured			Duty	Total PSD	Limit	5 "				
No.	(MHz)		/MHz)	Factor	(dBm/MHz)	(dBm/MHz)	Result				
		Chain A	Chain B			` '					
102	5510.00	-4.627	-1.660	0.28	0.40	9.85	Pass				
110	5550.00	-4.407	-1.013	0.28	0.90	9.85	Pass				
134	5670.00	-5.666	-2.450	0.28	-0.48	9.85	Pass				
			802.11ac(\	/UTAO\ MI	IMO mode						
T		Mogaur	ed PSD	V (1 1 4 0) WI	ivio illoue						
Channel	Frequency			Duty	Total PSD	Limit	Dooult				
No.	(MHz)		(MHz)	Factor	(dBm/MHz)	(dBm/MHz)	Result				
102	5510.00	Chain A	Chain B -1.845	0.35	0.18	9.85	Pass				
1102	5550.00	-5.116 5.414		0.35	-2.16	9.85	Pass				
134	5670.00	-5.414 -5.802	-5.624 -2.723	0.35	-2.16	9.85	Pass				
134	5070.00	-0.002	-2.123	0.33	-0.03	შ.00	Г а 5 5				
			802.11ac(\	VHT80) M	IMO mode						
01 ,	-	Measur	ed PSD			1					
Channel		Frequency (dBm/M		Duty	Total PSD	Limit	Result				
No.	(MHz)	Chain A	Chain B	Factor	(dBm/MHz)	(dBm/MHz)	. toodit				
106	5530.00	-7.178	-4.011	0.60	-1.70	9.85	Pass				
122	5610.00	-7.737	-5.038	0.60	-2.57	9.85	Pass				

Note: Total PSD = Measured PSD + Duty Factor

Duty Factor = 10 log (1/Duty Cycle)

Total (Chain A+B) = $10*log[(10^{Chain 0/10})+(10^{Chain 1/10})]$

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Test plots as followed:

