

**FCC RF Exposure Exemption report**

**for**

**WiFi USB Router**

**Model No.: AP7633-USB**

**FCC ID: 2ARGX-NGAP**

**of**

Applicant: Align Technology Inc.

Address: 2820 Orchard, Parkway San Jose, CA 95134, USA

Tested and Prepared

by

**Worldwide Testing Services (Taiwan) Co., Ltd.**

**FCC Registration No.: TW1477, TW1072**

**Industry Canada filed test laboratory Reg. No.: 20037, 5107A**



**Report No.: W6M22211-22321-EE**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877      FAX: 886-2-66068879      E-mail: [wts@wts-lab.com](mailto:wts@wts-lab.com)



Registration number: W6M22211-22321-EE

FCC ID: 2ARGX-NGAP

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# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22211-22321-EE  
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## 1 General Information

### 1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

### Tester:

June 20, 2023

Sora Kuo

Date

WTS-Lab.

Name

Signature

### Technical responsibility for area of testing:

June 20, 2023

Kevin Wang

Date

WTS

Name

Signature



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

Registration number: W6M22211-22321-EE

FCC ID: 2ARGX-NGAP

## **1.2 Testing laboratory**

### **1.2.1 Location**

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,  
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist.,  
Taipei City 114, Taiwan (R.O.C.)  
Tel: 886-2-6613-0228

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,  
Taipei City 114, Taiwan (R.O.C.)  
Tel: 886-2-6606-8877

### **1.2.2 Details of accreditation status**

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1477, TW1072

Industry Canada filed test laboratory Reg. No.: 20037, 5107A

**Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :**

Name: ./.  
Accredited no.: ./.  
Street: ./.  
Town: ./.  
Country: ./.

## **1.3 Application details**

### **Approval holder**

Name: Align Technology Inc.  
Street: 2820 Orchard, Parkway San Jose,  
Town: CA 95134,  
Country: USA

### **Manufacturer: (if applicable)**

Name: AsiaRF Co., Ltd.  
Street: 1F, 7, Houde Street, Yonghe Dist.  
Town: New Taipei City 23455  
Country: Taiwan R.O.C.



Registration number: W6M22211-22321-EE  
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Date of receipt of test item: April 10, 2023

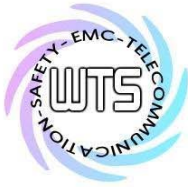
Date of test: from April 11, 2023 to June 16, 2023

## 1.4 General information of Test item

Type of test item: WiFi USB Router  
Model no.: AP7633-USB  
Multi-listing model no.: ./.  
Brand name: Align Technology Inc.  
Power supply: 5Vd.c., 0.9A  
Type of antenna: PCB antenna  
Antenna gain: 1.5 dBi (Antenna A & Antenna B)  
Directional gain: 4.51 dBi

### Technical data

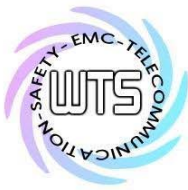
WLAN		
Mode	Channel	Conducted Power (dBm)
802.11b	Ch 1 : 2412 MHz	15.12
	Ch 6 : 2437 MHz	15.02
	Ch 11 : 2462 MHz	13.76
802.11g	Ch 1 : 2412 MHz	15.04
	Ch 6 : 2437 MHz	14.88
	Ch 11 : 2462 MHz	14.88
802.11n20MHz	Ch 1 : 2412 MHz	17.70
	Ch 6 : 2437 MHz	17.43
	Ch 11 : 2462 MHz	17.49
802.11n40MHz	Ch 1 : 2422 MHz	17.01
	Ch 4 : 2437 MHz	16.93
	Ch 7 : 2452 MHz	16.71



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22211-22321-EE  
 FCC ID: 2ARGX-NGAP

Band	Mode	Channel	Conducted Power (dBm)
NII-1	802.11a	Ch 36 : 5180 MHz	14.10
		Ch 44 : 5220 MHz	14.50
		Ch 48 : 5240 MHz	14.86
	802.11n 20M	Ch 36 : 5180 MHz	16.19
		Ch 44 : 5220 MHz	16.46
		Ch 48 : 5240 MHz	16.37
	802.11n 40M	Ch 38 : 5190 MHz	16.52
Ch 46 : 5230 MHz		16.93	
802.11ac	Ch 42 : 5210 MHz	15.51	
NII-2A	802.11a	Ch 52 : 5260 MHz	14.18
		Ch 60 : 5300 MHz	13.18
		Ch 64 : 5320 MHz	13.43
	802.11n 20M	Ch 52 : 5260 MHz	15.59
		Ch 60 : 5300 MHz	14.97
		Ch 64 : 5320 MHz	15.29
	802.11n 40M	Ch 54 : 5270 MHz	15.42
		Ch 62 : 5310 MHz	15.21
	802.11ac	Ch 58 : 5290 MHz	14.08
NII-2C	802.11a	Ch 100 : 5500 MHz	14.24
		Ch 116 : 5580 MHz	15.28
		Ch 140 : 5700 MHz	14.83
		Ch 144 : 5720 MHz	17.11
	802.11n 20M	Ch 100 : 5500 MHz	15.91
		Ch 116 : 5580 MHz	16.76
		Ch 140 : 5700 MHz	16.58
		Ch 144 : 5720 MHz	19.29
	802.11n 40M	Ch 102 : 5510 MHz	15.94
		Ch 110 : 5550 MHz	16.22
		Ch 134 : 5670 MHz	16.09
		Ch 142 : 5710 MHz	20.38
	802.11ac	Ch 106 : 5530 MHz	15.05
		Ch 138 : 5690 MHz	14.67
	NII-3	802.11a	Ch 144 : 5720 MHz
Ch 149 : 5745 MHz			13.82
Ch 157 : 5785 MHz			14.41
Ch 165 : 5825 MHz			14.61
802.11n 20M		Ch 144 : 5720 MHz	12.98
		Ch 149 : 5745 MHz	15.68
		Ch 157 : 5785 MHz	16.24
		Ch 165 : 5825 MHz	16.37



Registration number: W6M22211-22321-EE  
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<b>802.11n 40M</b>	Ch 142 : 5710 MHz	9.48
	Ch 151 : 5755 MHz	15.83
	Ch 159 : 5795 MHz	16.92
<b>802.11ac</b>	Ch 138 : 5690 MHz	-1.17
	Ch 155 : 5775 MHz	15.14

Operation modes: Duplex  
 Modulation type: DSSS 、 OFDM  
 Sample no.: #01  
 Special statement: ./.

Classification:

Fixed Device	<input type="checkbox"/>
Mobile Device (Human Body distance > 20cm)	<input checked="" type="checkbox"/>
Portable Device (Human Body distance < 20cm)	<input type="checkbox"/>

### 1.5 Duty cycle and factor

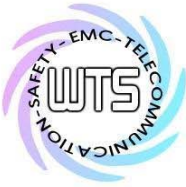
The duty factor is computed as  $[10 \log (1 / D)]$ , where D is the duty cycle.

#### WLAN 2.4G

Mode	T <sub>on</sub> (ms)	T <sub>on</sub> +T <sub>off</sub> (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11b	8.774	8.814	99.55%	0.02	0.11
802.11g	1.458	1.514	96.30%	0.16	0.69
802.11n 20M	0.705	0.769	91.68%	0.38	1.42
802.11n 40M	0.363	0.487	74.54%	1.28	2.75

#### WLAN 5G

Mode	T <sub>on</sub> (ms)	T <sub>on</sub> +T <sub>off</sub> (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11a	1.456	1.52	95.79%	0.19	0.69
802.11n(HT20)	0.711	0.835	85.15%	0.70	1.41
802.11n(HT40)	0.362	0.482	75.10%	1.24	2.76
802.11ac (VHT80)	0.343	0.41	83.66%	0.77	2.92



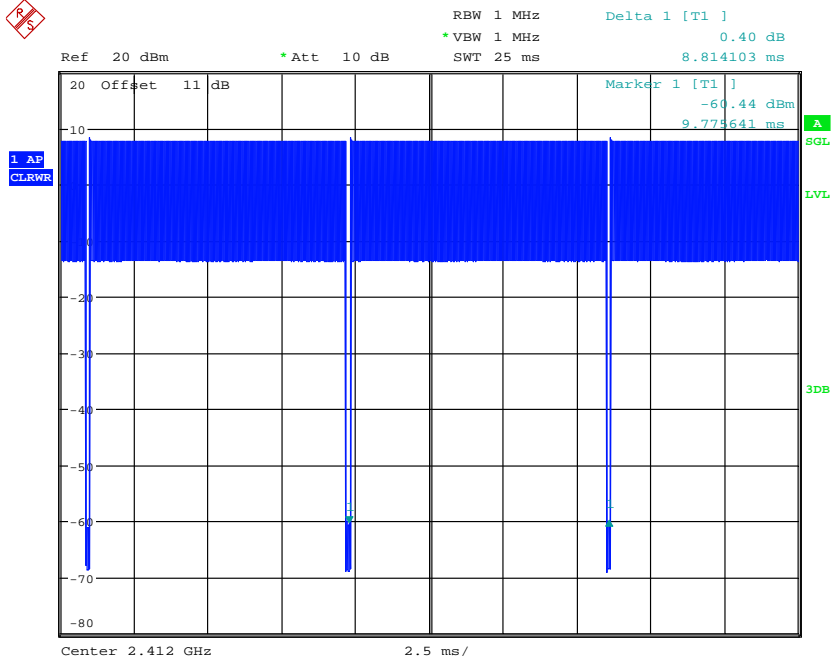
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22211-22321-EE

FCC ID: 2ARGX-NGAP

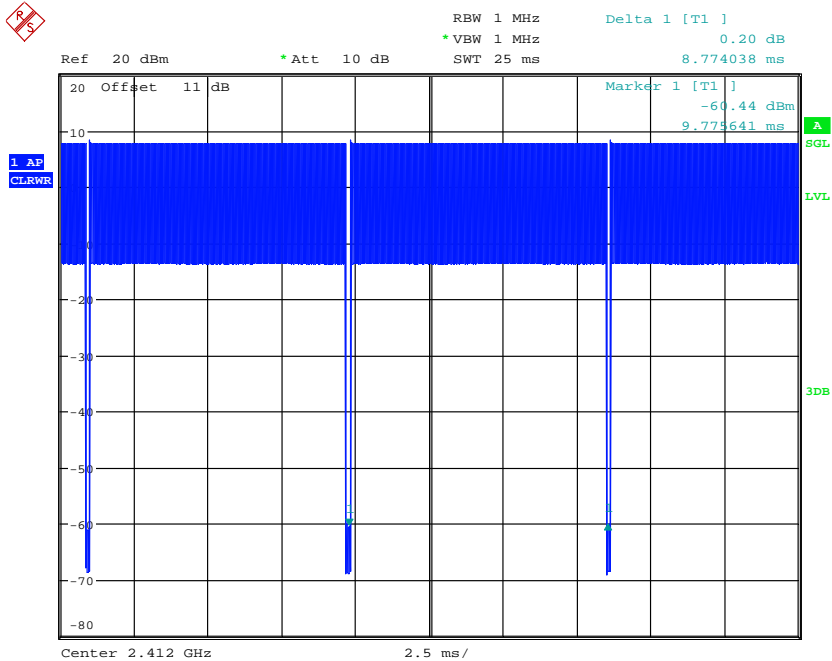
Duty cycle plot

WLAN 2.4G



DUTY 802.11B

Date: 17.MAY.2023 10:10:08



DUTY 802.11B

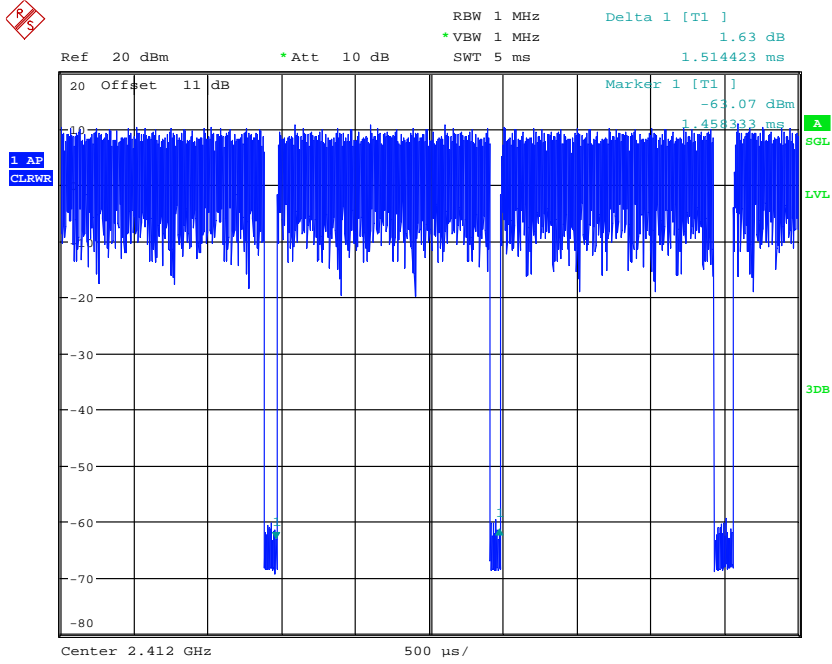
Date: 17.MAY.2023 10:10:15



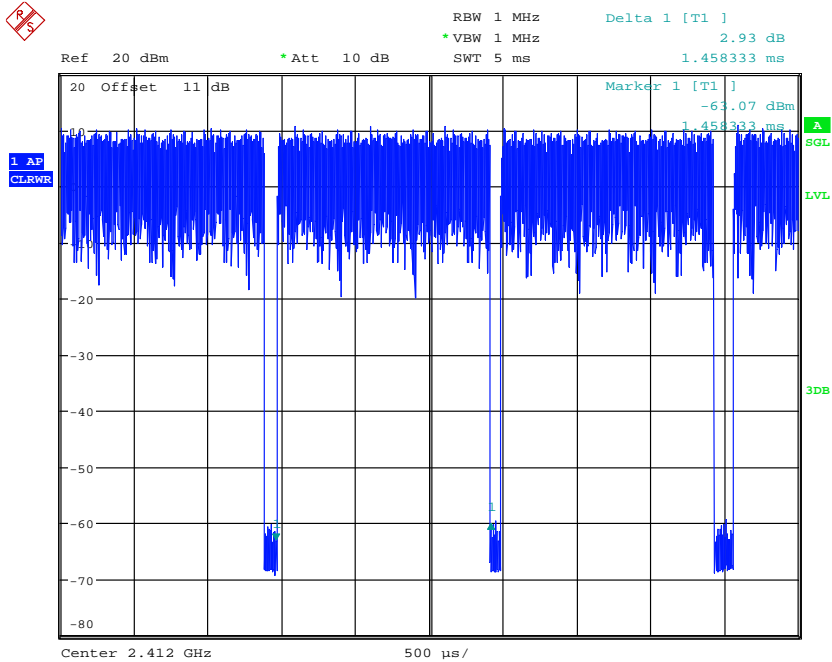


# Worldwide Testing Services(Taiwan) Co., Ltd.

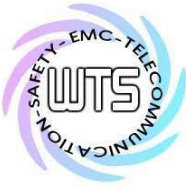
Registration number: W6M22211-22321-EE  
FCC ID: 2ARGX-NGAP



DUTY 802.11G  
Date: 17.MAY.2023 10:11:12

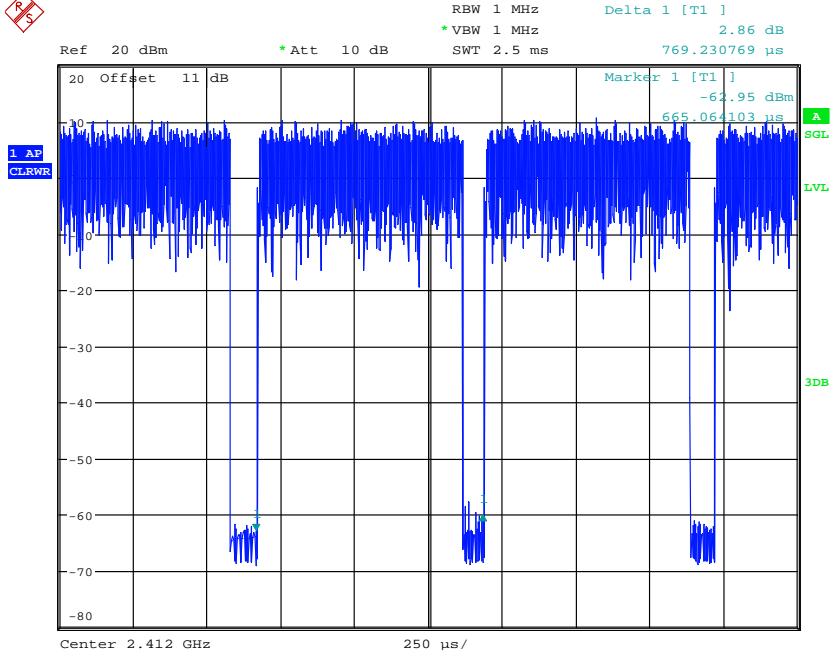


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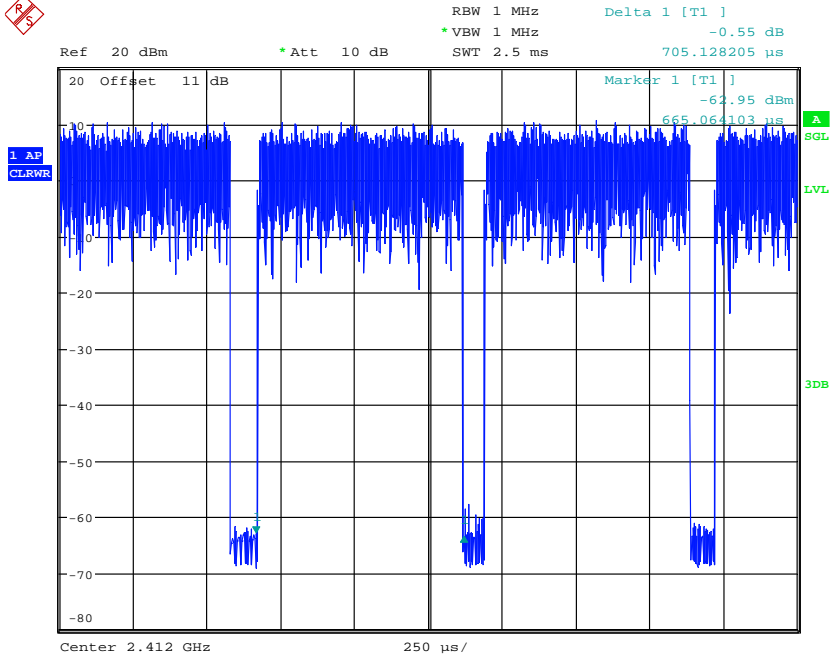


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22211-22321-EE  
FCC ID: 2ARGX-NGAP



DUTY 802.11N20  
Date: 17.MAY.2023 10:12:13

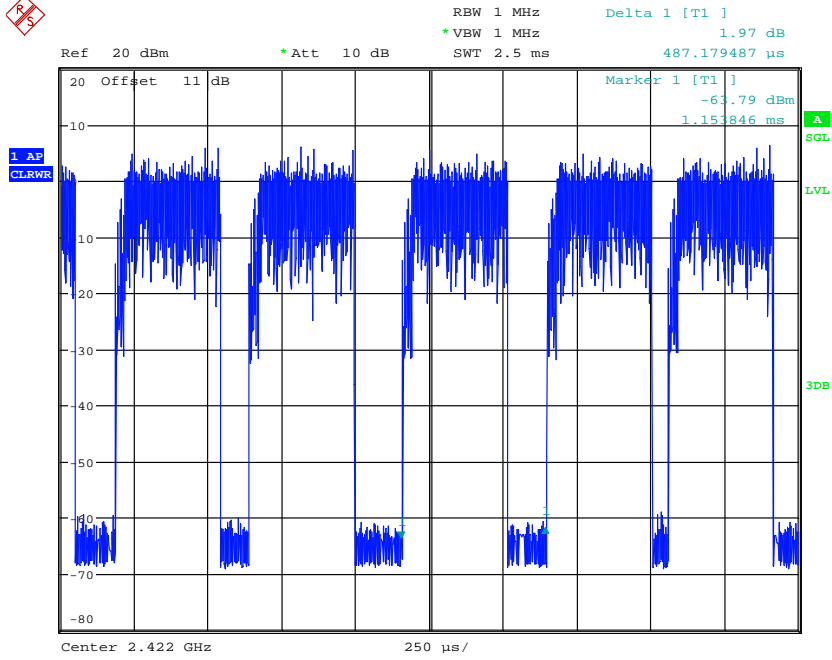


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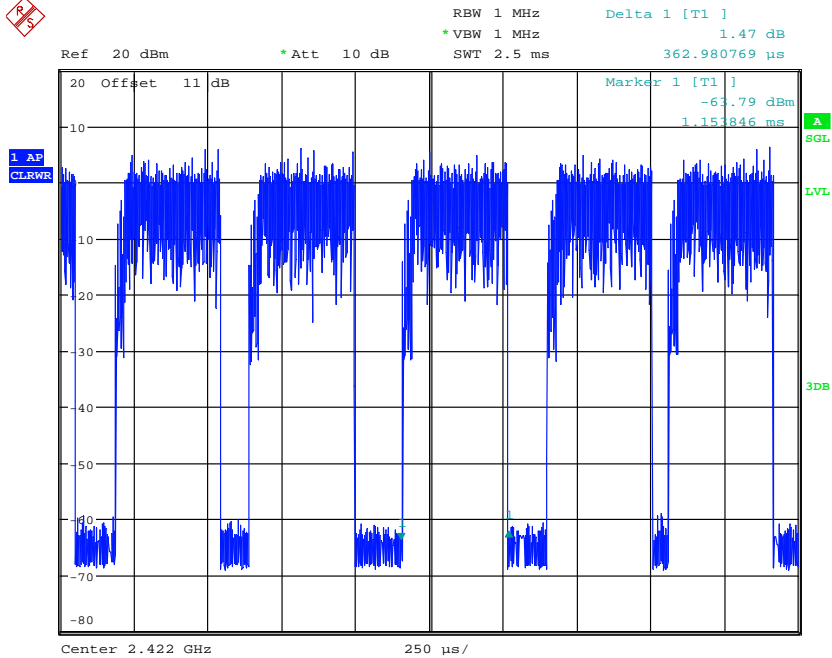


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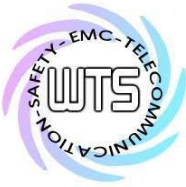
Registration number: W6M22211-22321-EE  
FCC ID: 2ARGX-NGAP



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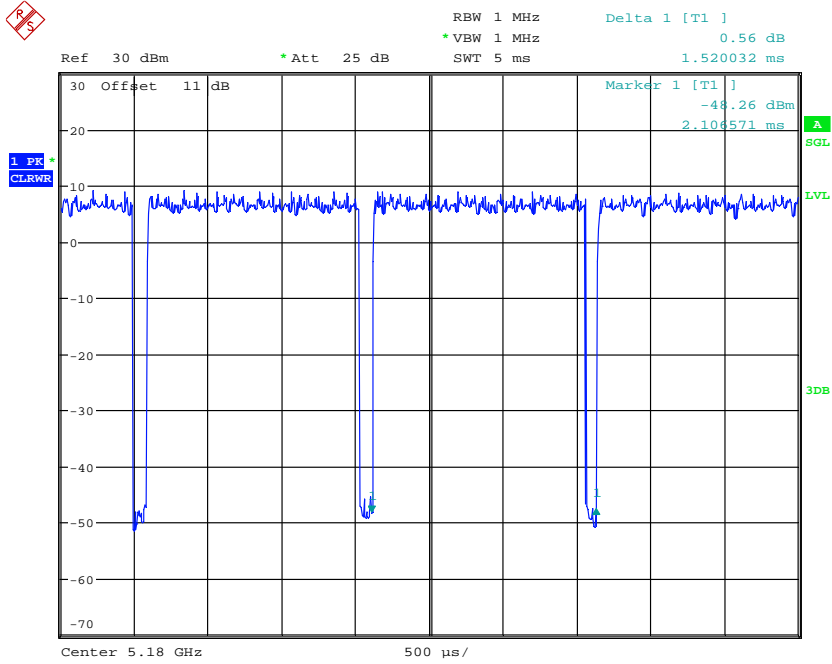


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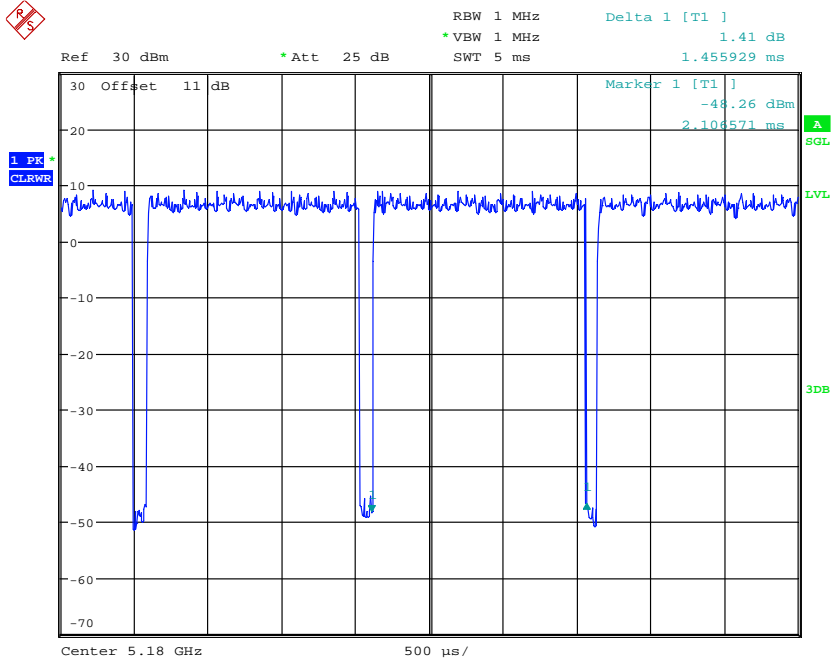


# Worldwide Testing Services(Taiwan) Co., Ltd.

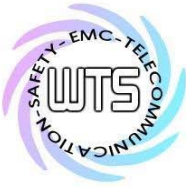
Registration number: W6M22211-22321-EE  
FCC ID: 2ARGX-NGAP  
WLAN 5G



DUTY 802.11A  
Date: 16.MAY.2023 12:13:14

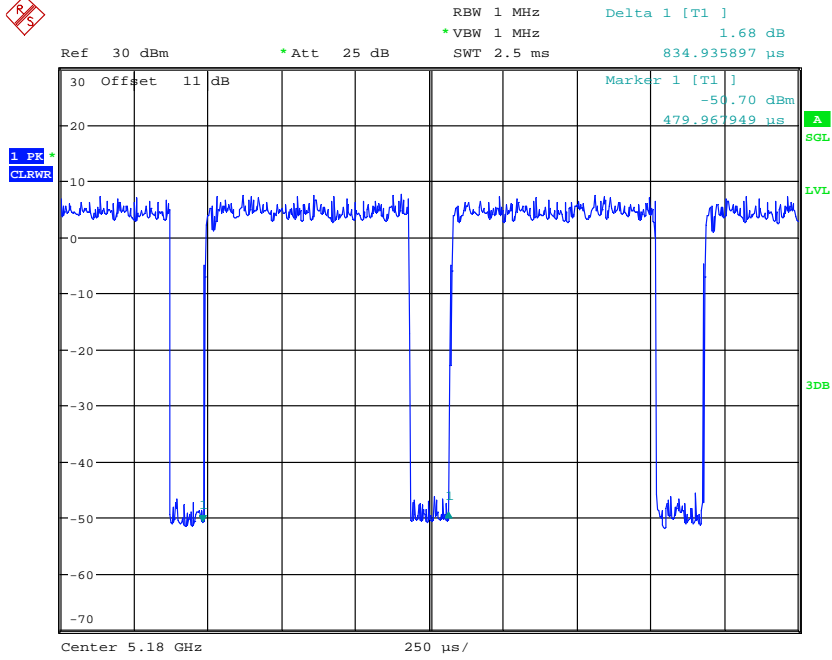


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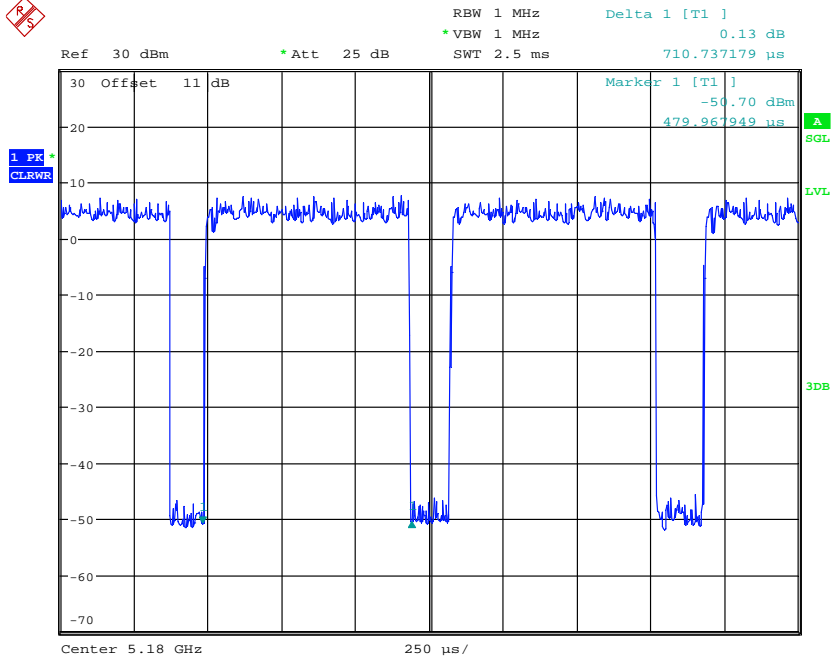


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22211-22321-EE  
FCC ID: 2ARGX-NGAP



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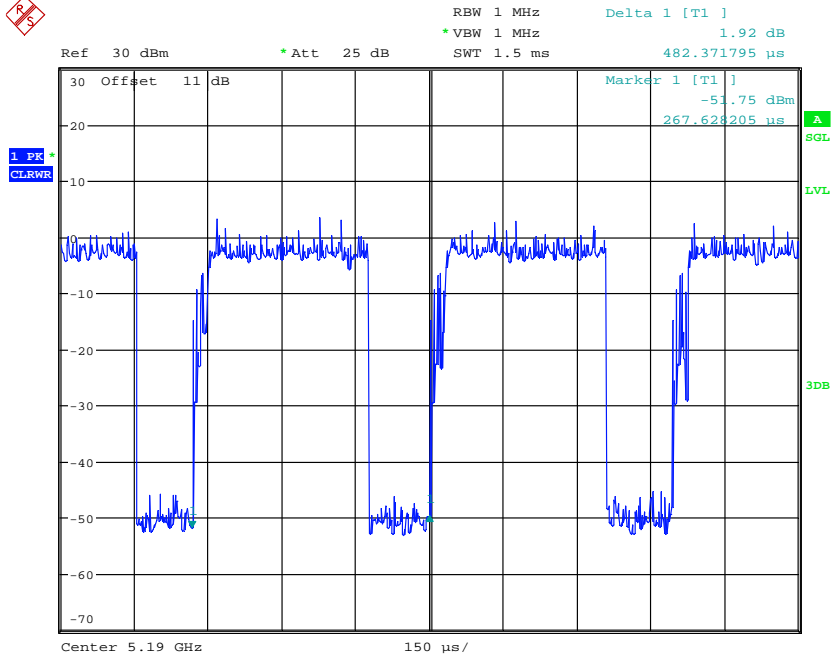


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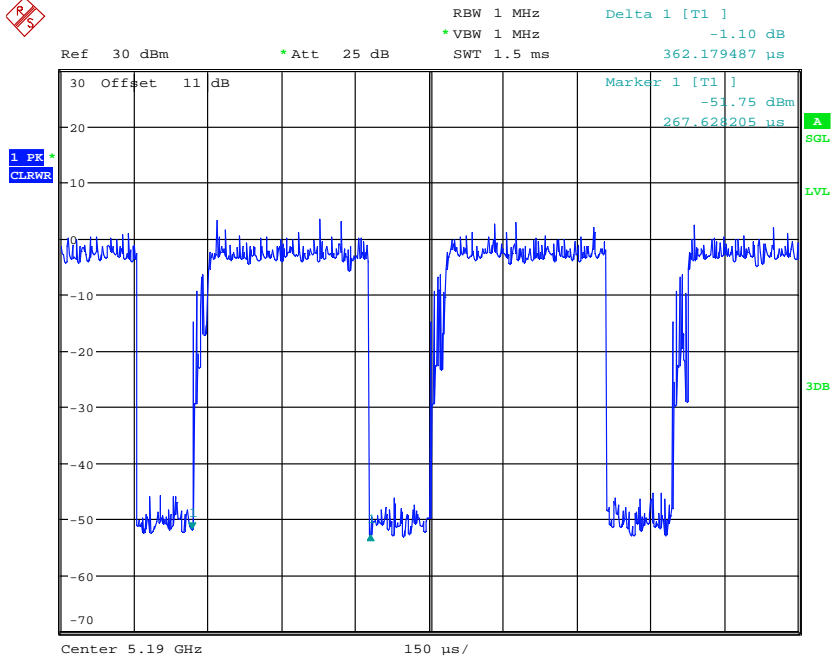


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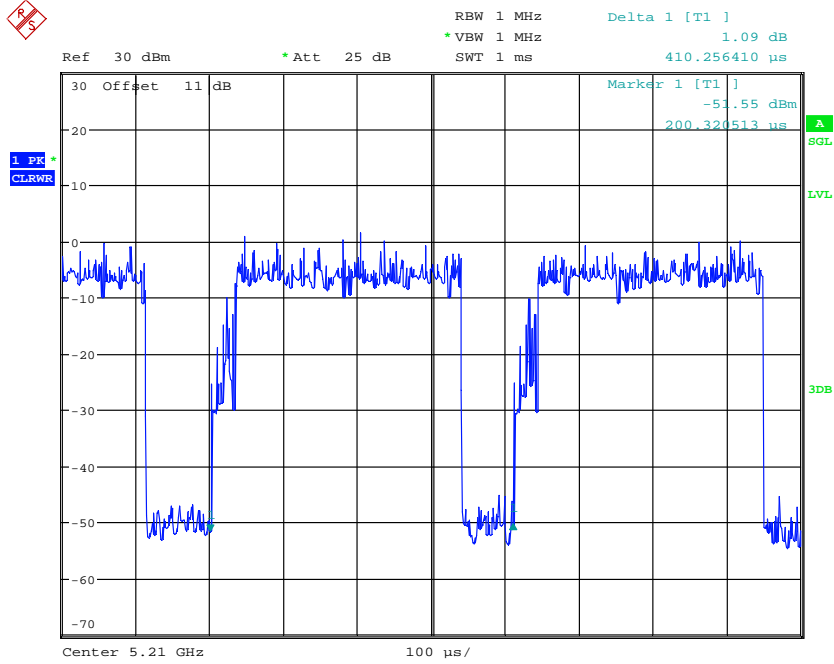
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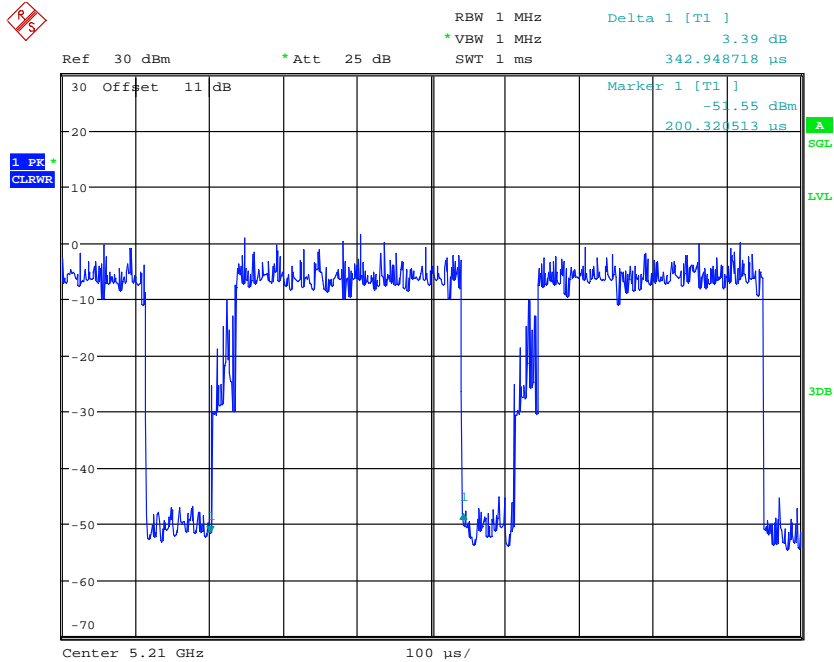
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Registration number: W6M22211-22321-EE  
FCC ID: 2ARGX-NGAP



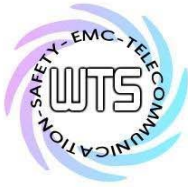
DUTY 802.11AC80  
Date: 16.MAY.2023 12:06:09



DUTY 802.11AC80  
Date: 16.MAY.2023 12:06:18

## 1.6 Test standards

47 CFR PART 15 SUBPART C § 15.247 (2021-10)  
47 CFR PART 15 SUBPART C § 15.407 (2021-10)



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**2 Test configuration**

**2.1 Test environment**

Relative humidity content: 20 ... 75 %  
 Air pressure: 86 ... 103 kPa  
 Extreme conditions parameters: ./.

**2.2 Measurement uncertainty**

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.48 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.

**2.3 Test Equipment List**

**RF Conducted**

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2022/8/3	2023/8/2
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2023/3/22	2024/3/21
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2023/2/17	2024/2/16
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2023/2/17	2024/2/16
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2022/10/3	2023/10/2
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2022/9/2	2023/9/1
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2023/4/27	2024/4/26
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2023/02/17	2024/2/16
ETSTW-Cable 045	Microwave Cable	SUCOFLEX 104	325536	HUBER+SUHNER	2022/10/21	2023/10/20
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2023/5/18	2024/5/17
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	





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**3 Equivalent Isotropic Radiated Power (EIRP)**

FCC Rule: 15.247

EIRP = max. conducted output power + antenna gain

EIRP = 17.70 dBm+ 4.51 dBi [antenna gain claimed by manufacturer] = 22.21 dBm = 166.34 mW

FCC Rule: 15.407(b)(3)

NII-1

Test exclusion

= max. conducted output power + antenna gain

= 16.93 dBm+4.51 dBi [antenna gain claimed by manufacturer] = 21.44 dBm = 139.32 mW

NII-2A

Test exclusion

= max. conducted output power + antenna gain

= 15.59 dBm+4.51 dBi [antenna gain claimed by manufacturer] = 20.1 dBm = 102.33 mW

NII-2C

Test exclusion

= max. conducted output power + antenna gain

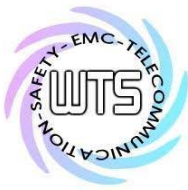
= 20.38 dBm+4.51 dBi [antenna gain claimed by manufacturer] = 24.89 dBm = 308.32 mW

NII-3

Test exclusion

= max. conducted output power + antenna gain e

= 16.92 dBm+(4.51 dBi [antenna gain claimed by manufacturer]) = 21.43 dBm = 139 mW



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**3.1 Exemption Limits for Routine Evaluation**

**according to 47 CFR FCC Part 2 Subpart J, section 2.1091**

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

**MPE Calculation Method**

**(A) Limits for Occupational/Controlled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

**(B) Limits for General Population/Uncontrolled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

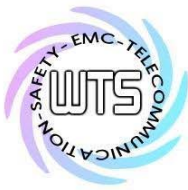
\*Plane-wave equivalent power density

E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2} \text{ mW/cm}^2.$$



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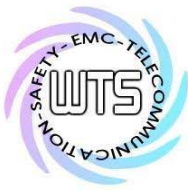
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## WLAN 2.4G

Band	Mode	Channel	Conducted power with DF (dBm)		Combine (dBm)	Antenna gain (dBi)	Power density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Ratio
			Antenna 1	Antenna 2					
WLAN 2.4GHz	802.11b	Ch 1 : 2412 MHz	15.12	14.24	-	1.5	0.0091	1	0.0091
		Ch 6 : 2437 MHz	15.02	13.98	-	-	-	-	-
		Ch 11 : 2462 MHz	13.76	11.80	-	-	-	-	-
	802.11g	Ch 1 : 2412 MHz	15.04	14.15	-	1.5	0.0090	1	0.0090
		Ch 6 : 2437 MHz	14.88	13.83	-	-	-	-	-
		Ch 11 : 2462 MHz	14.88	13.90	-	-	-	-	-
	802.11n 20M	Ch 1 : 2412 MHz	15.15	14.19	17.70	4.51	0.0331	1	<b>0.0331</b>
		Ch 6 : 2437 MHz	14.89	13.90	17.43	-	-	-	-
		Ch 11 : 2462 MHz	14.93	13.98	17.49	-	-	-	-
	802.11n 40M	Ch 1 : 2422 MHz	14.44	13.51	17.01	4.51	0.0282	1	0.0282
		Ch 4 : 2437 MHz	14.39	13.40	16.93	-	-	-	-
		Ch 7 : 2452 MHz	14.22	13.12	16.71	-	-	-	-

## WLAN 5G

Band	Mode	Channel/ Frequency (MHz)	Conducted power with DF (dBm)		Combine (dBm)	Antenna gain (dBi)	Power density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Ratio
			Antenna 1	Antenna 2					
NII-1	802.11a	Ch 36 : 5180 MHz	13.18	14.10	-	-	-	-	-
		Ch 44 : 5220 MHz	13.60	14.50	-	-	-	-	-
		Ch 48 : 5240 MHz	13.43	14.86	-	1.5	0.0086	1	0.0086
	802.11n 20M	Ch 36 : 5180 MHz	12.68	13.64	16.19	-	-	-	-
		Ch 44 : 5220 MHz	13.13	13.75	16.46	4.51	0.0249	1	0.0249
		Ch 48 : 5240 MHz	12.66	13.96	16.37	-	-	-	-
	802.11n 40M	Ch 38 : 5190 MHz	13.10	13.87	16.52	-	-	-	-
		Ch 46 : 5230 MHz	13.05	14.63	16.93	4.51	0.0277	1	<b>0.0277</b>
802.11ac	Ch 42 : 5290 MHz	12.07	12.88	15.51	4.51	0.02	1	0.02	
NII-2A	802.11a	Ch 52 : 5260 MHz	11.80	14.18	-	1.5	0.0074	1	0.0074
		Ch 60 : 5300 MHz	11.51	13.18	-	-	-	-	-
		Ch 64 : 5320 MHz	12.08	13.43	-	-	-	-	-
	802.11n 20M	Ch 52 : 5260 MHz	11.51	13.44	15.59	4.51	0.0203	1	<b>0.0203</b>
		Ch 60 : 5300 MHz	11.17	12.63	14.97	-	-	-	-
		Ch 64 : 5320 MHz	11.80	12.71	15.29	-	-	-	-
	802.11n 40M	Ch 54 : 5270 MHz	11.16	13.38	15.42	4.51	0.0196	1	0.0196
		Ch 62 : 5310 MHz	11.32	12.92	15.21	-	-	-	-
	802.11ac	Ch 58 : 5290 MHz	9.99	11.93	14.08	4.51	0.0144	1	0.0144



# Worldwide Testing Services(Taiwan) Co., Ltd.

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 FCC ID: 2ARGX-NGAP

NII-2C	802.11a	Ch 100 : 5500 MHz	12.45	14.24	-	-	-	-	-
		Ch 116 : 5580 MHz	13.54	15.28	-	-	-	-	-
		Ch 140 : 5700 MHz	13.52	14.83	-	-	-	-	-
		Ch 144 : 5720 MHz	17.11	16.95	-	1.5	0.0144	1	0.0144
	802.11n 20M	Ch 100 : 5500 MHz	11.92	13.70	15.91	-	-	-	-
		Ch 116 : 5580 MHz	12.74	14.57	16.76	-	-	-	-
		Ch 140 : 5700 MHz	12.99	14.08	16.58	-	-	-	-
		Ch 144 : 5720 MHz	16.39	16.17	19.29	4.51	0.0477	1	0.0477
	802.11n 40M	Ch 102 : 5510 MHz	11.94	13.73	15.94	-	-	-	-
		Ch 110 : 5550 MHz	12.71	13.66	16.22	-	-	-	-
		Ch 134 : 5670 MHz	12.12	13.86	16.09	-	-	-	-
		Ch 142 : 5710 MHz	17.43	17.31	20.38	4.51	0.0613	1	<b>0.0613</b>
802.11ac	Ch 106 : 5530 MHz	11.34	12.64	15.05	4.51	0.018	1	0.018	
	Ch 138 : 5690 MHz	11.67	11.63	14.67	-	-	-	-	
NII-3	802.11a	Ch 144 : 5720 MHz	10.03	10.31	-	-	-	-	-
		Ch 149 : 5745 MHz	12.43	13.82	-	-	-	-	-
		Ch 157 : 5785 MHz	13.59	14.41	-	-	-	-	-
		Ch 165 : 5825 MHz	13.37	14.61	-	1.5	0.0081	1	0.0081
	802.11n 20M	Ch 144 : 5720 MHz	9.86	10.08	12.98	-	-	-	-
		Ch 149 : 5745 MHz	11.89	13.33	15.68	-	-	-	-
		Ch 157 : 5785 MHz	12.95	13.49	16.24	-	-	-	-
		Ch 165 : 5825 MHz	12.57	14.03	16.37	4.51	0.0244	1	0.0244
	802.11n 40M	Ch 142 : 5710 MHz	6.53	6.40	9.48	-	-	-	-
		Ch 151 : 5755 MHz	12.08	13.45	15.83	-	-	-	-
		Ch 159 : 5795 MHz	13.62	14.17	16.92	4.51	0.0276	1	<b>0.0276</b>
	802.11ac	Ch 138 : 5690 MHz	-4.11	-4.26	-1.17	-	-	-	-
Ch 155 : 5775 MHz		11.63	12.57	15.14	4.51	0.0184	1	0.0184	

From the peak EUT RF output power, the minimum mobile separation distance,  $d = 20$  cm, as well as the gain of the used antenna, the RF power density can be obtained.