

FCC RF Exposure Exemption report

for

Home Phone

Model No.: Blue

FCC ID: 2ARIOCC0032

of

Applicant: ClearCaptions LLC

Address: 3026 Owen Drive, Suite 111, Antioch, TN 37013 USA

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634



Report No.: W6M22507-24608-EE

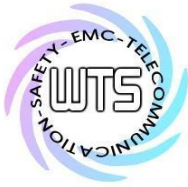
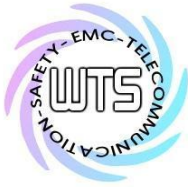


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Worldwide Testing Services(Taiwan) Co., Ltd.

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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:

September 25, 2025

Sora Kuo

Sora

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

September 25, 2025

Kevin Wang

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

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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. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

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.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

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

Name: ./.

Accredited no.: ./.

Street: ./.

Town: ./.

Country: ./.

1.3 Application details

Approval holder

Name: ClearCaptions LLC

Street: 3026 Owen Drive, Suite 111, Antioch,

Town: TN 37013

Country: USA

Manufacturer: (if applicable)

Name: Honor Tone Limited

Street: Unit 9-11, 7/F Technology Park, #18 On Lai Street, Shatin,

Town: New Territories,

Country: Hong Kong



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22507-24608-EE

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Date of receipt of test item: July 28, 2025

Date of test: from July 29, 2025 to August 08, 2025

1.4 General information of Test item

Type of test item: Home Phone

Model no.: Blue

Multi-listing model no.: ./.

Brand name: ClearCaptions

Power supply: Adaptor (Model number: 2AAJ024F)
(I/P: 100-240V~ 50/60Hz 0.8A O/P: 12.0, 2.0A, 24.0W)

Adaptor (Model number: A241-1202000U)

(I/P: 100-240V~ 50/60Hz 0.8A

O/P: 12.0, 2.0A)

Adaptor (Model number: ATS018T-W120U)

(I/P: 100-240V~ 50/60Hz 0.48A

O/P: 12.0, 1.6A, 19.2W)

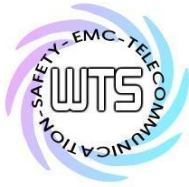
Type of antenna: PIFA antenna

Antenna gain: WLAN 2.4G: 2.8dBi

WLAN 5G: 3.4dBi

Technical data:

WLAN 2.4G		
Mode	Channel	Conducted Power (dBm)
802.11b	Ch 1 : 2412 MHz	16.07
	Ch 6 : 2437 MHz	14.48
	Ch 11 : 2462 MHz	12.31
802.11g	Ch 1 : 2412 MHz	16.11
	Ch 6 : 2437 MHz	13.29
	Ch 11 : 2462 MHz	11.40
802.11n20MHz	Ch 1 : 2412 MHz	13.77
	Ch 6 : 2437 MHz	11.75
	Ch 11 : 2462 MHz	7.68
802.11n40MHz	Ch 1 : 2422 MHz	10.17
	Ch 4 : 2437 MHz	8.63
	Ch 7 : 2452 MHz	16.07



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WLAN 5G			
Band	Mode	Channel	Conducted Power (dBm)
NII-1	802.11a	Ch 36 : 5180 MHz	12.31
		Ch 44 : 5220 MHz	15.37
		Ch 48 : 5240 MHz	15.41
	802.11n 20MHz	Ch 36 : 5180 MHz	11.59
		Ch 44 : 5220 MHz	15.30
		Ch 48 : 5240 MHz	15.39
	802.11n 40MHz	Ch 38 : 5190 MHz	9.08
		Ch 46 : 5230 MHz	12.32
	802.11ac 80MHz	Ch 42 : 5210 MHz	8.69
NII-2A	802.11a	Ch 52 : 5260 MHz	15.14
		Ch 60 : 5300 MHz	15.16
		Ch 64 : 5320 MHz	13.37
	802.11n 20MHz	Ch 52 : 5260 MHz	15.04
		Ch 60 : 5300 MHz	15.09
		Ch 64 : 5320 MHz	12.27
	802.11n 40MHz	Ch 54 : 5270 MHz	12.14
		Ch 62 : 5310 MHz	11.91
	802.11ac 80MHz	Ch 58 : 5290 MHz	10.60

Band	Mode	Channel	Conducted Power (dBm)
NII-2C	802.11a	Ch 100 : 5500 MHz	10.50
		Ch 120 : 5600 MHz	13.94
		Ch 140 : 5700 MHz	11.27
	802.11n 20MHz	Ch 100 : 5500 MHz	8.28
		Ch 120 : 5600 MHz	13.89
		Ch 140 : 5700 MHz	9.35
	802.11n 40MHz	Ch 102 : 5510 MHz	6.50
		Ch 116 : 5590 MHz	11.10
		Ch 134 : 5670 MHz	11.28
	802.11ac 80MHz	Ch 106 : 5530 MHz	7.71
		Ch 122 : 5610 MHz	10.00
NII-3	802.11a	Ch 149 : 5745 MHz	14.07



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		Ch 157 : 5785 MHz	14.06
		Ch 165 : 5825 MHz	14.10
	802.11n 20MHz	Ch 149 : 5745 MHz	13.92
		Ch 157 : 5785 MHz	13.99
		Ch 165 : 5825 MHz	13.81
	802.11n 40MHz	Ch 151 : 5755 MHz	11.32
		Ch 159 : 5795 MHz	11.30
	802.11ac 80MHz	Ch 155: 5775 MHz	9.91

Operation modes: Duplex

Modulation type: DSSS/OFDM

Sample no.: #03

Special statement: ./.

Classification:

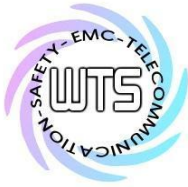
Fixed Device	☒
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☐

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 _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11b	5.637	5.647	99.82%	0.01	0.01
802.11g	2.083	2.091	99.62%	0.02	0.01
802.11n 20MHz	1.947	1.955	99.59%	0.02	0.01
802.11n 40MHz	0.971	0.976	99.49%	0.02	0.01



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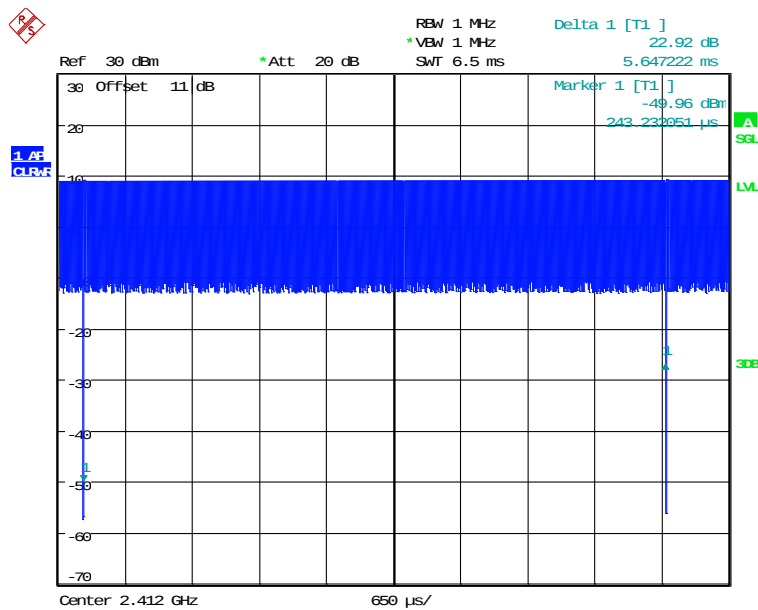
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WLAN 5G

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11a	2.083	2.091	99.62%	0.02	0.01
802.11n 20MHz	1.947	1.955	99.59%	0.02	0.01
802.11n 40MHz	0.962	0.970	99.18%	0.04	0.01
802.11ac 80MHz	0.471	0.481	97.92%	0.09	2.12

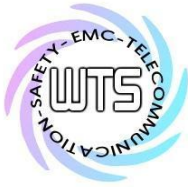
Duty cycle plot

WLAN 2.4G

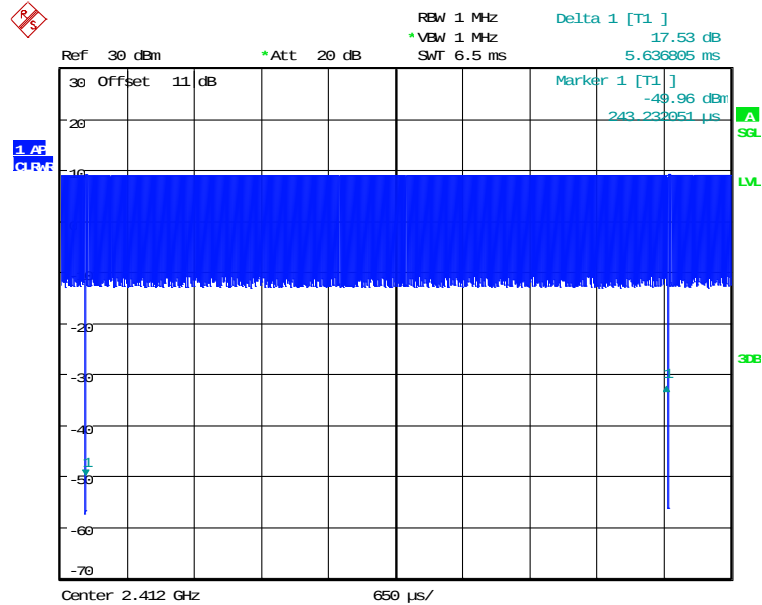


DUTY 802.11B

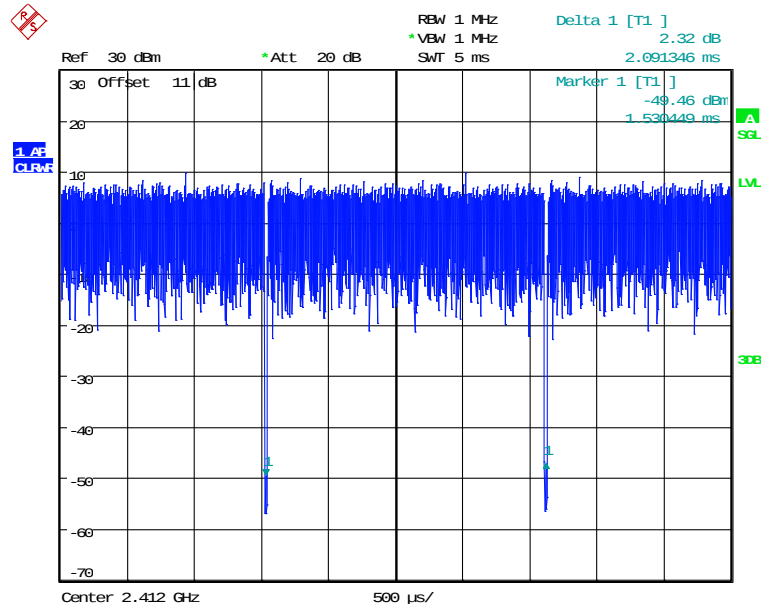
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Registration number: W6M22507-24608-EE
FCC ID: 2ARIOCC0032



DUTY 802.11B
Date: 6.AUG.2025 11:29:48

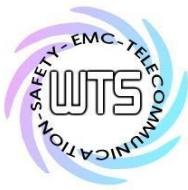


DUTY 802.11G
Date: 31.JUL.2025 11:49:19

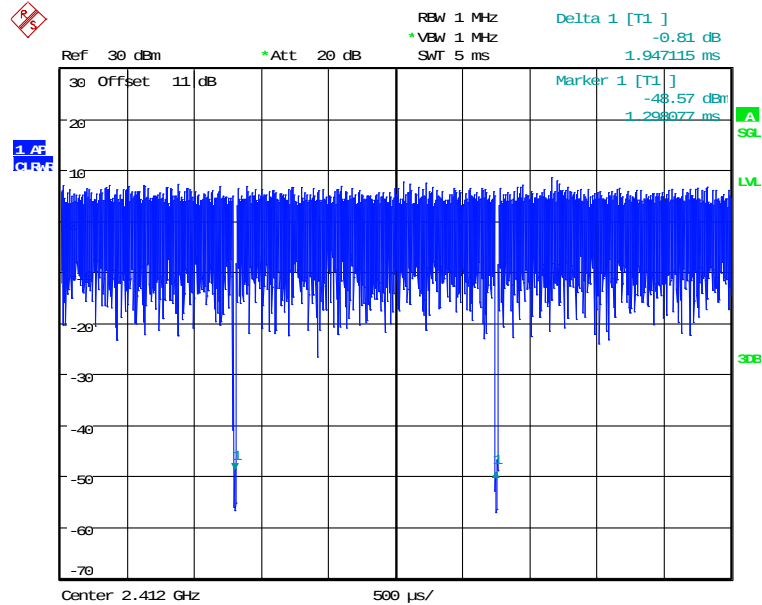


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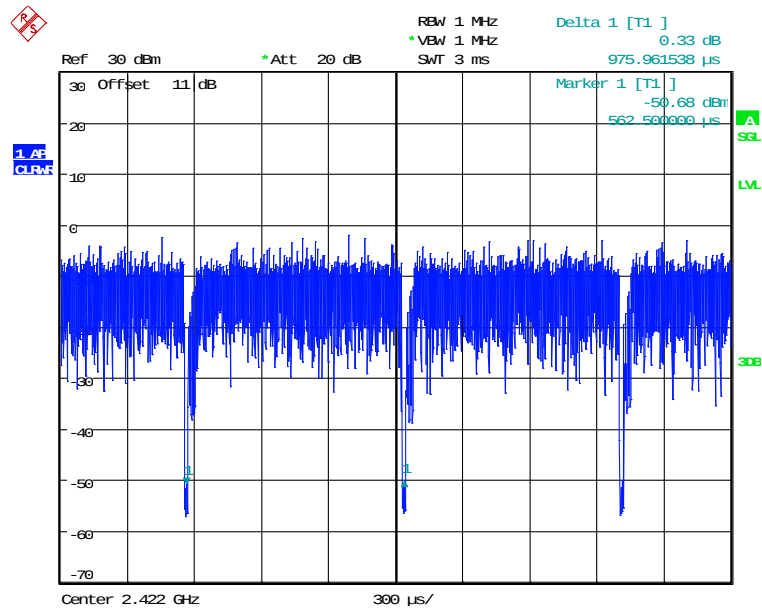
DUTY 802.11N 20MHZ
Date: 31.JUL.2025 11:59:39



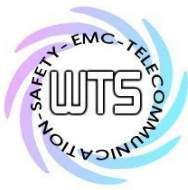
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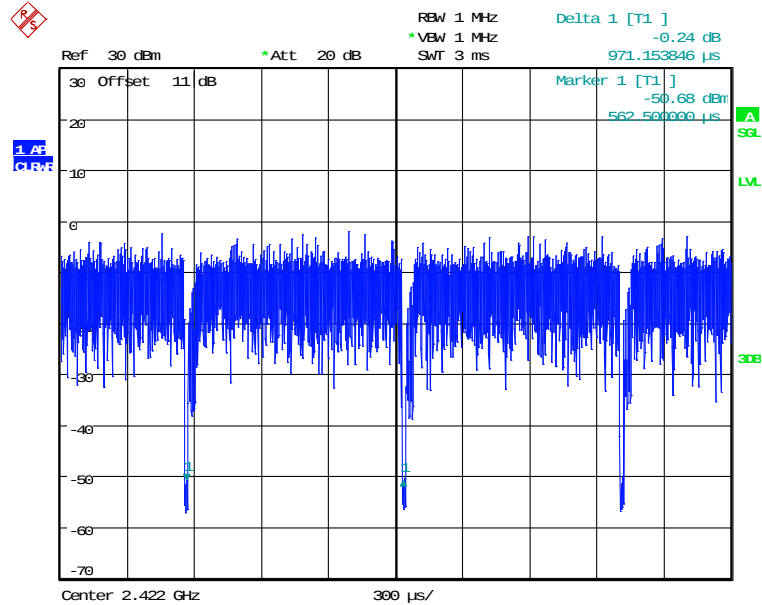
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Date: 31.JUL.2025 11:59:48



DUTY 802.11N 40MHZ
Date: 31.JUL.2025 12:00:38

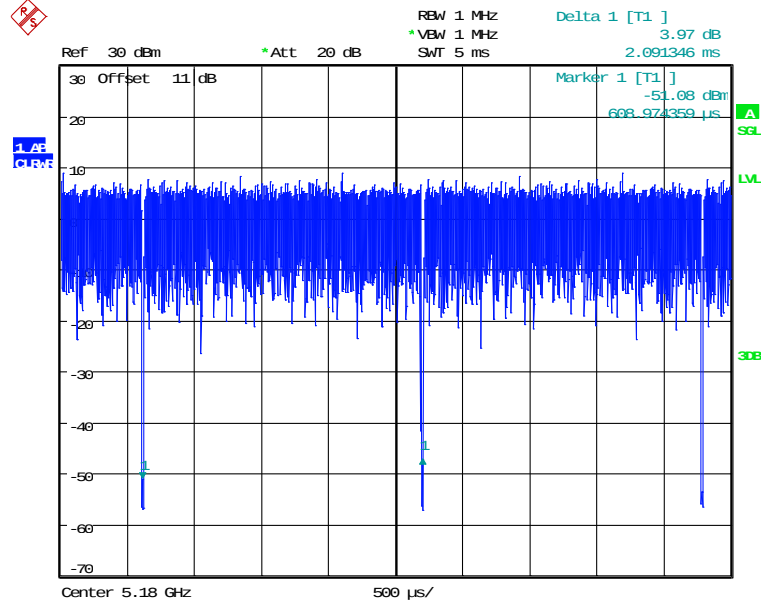


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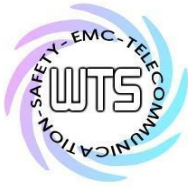


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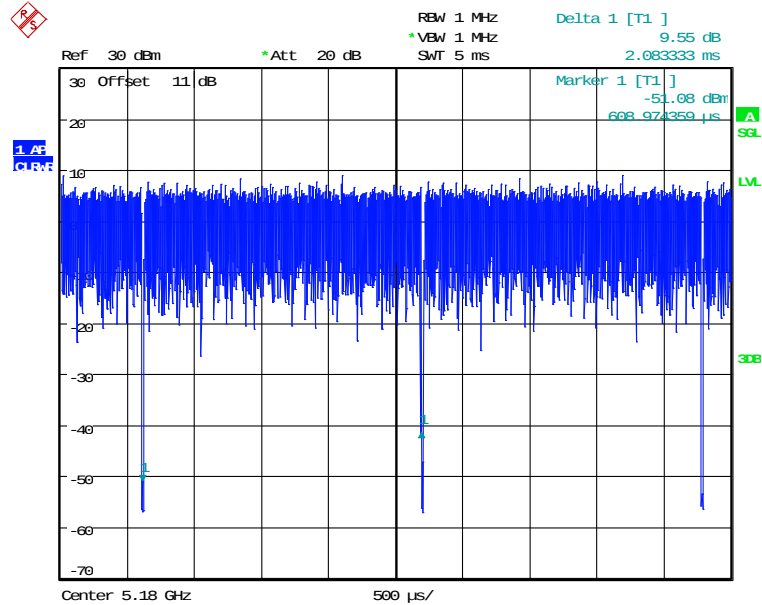
WLAN 5G



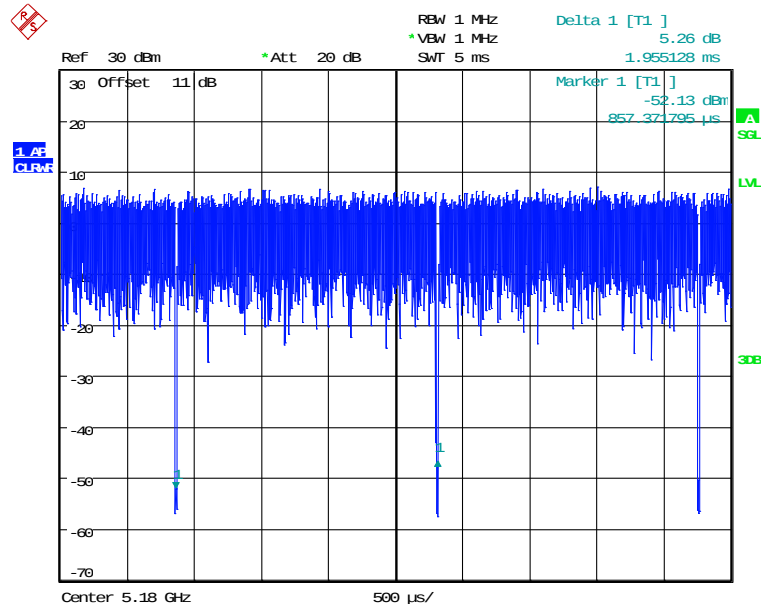
DUTY 802.11A
Date: 6.AUG.2025 11:32:29



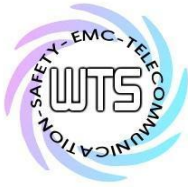
Registration number: W6M22507-24608-EE
FCC ID: 2ARIOCC0032



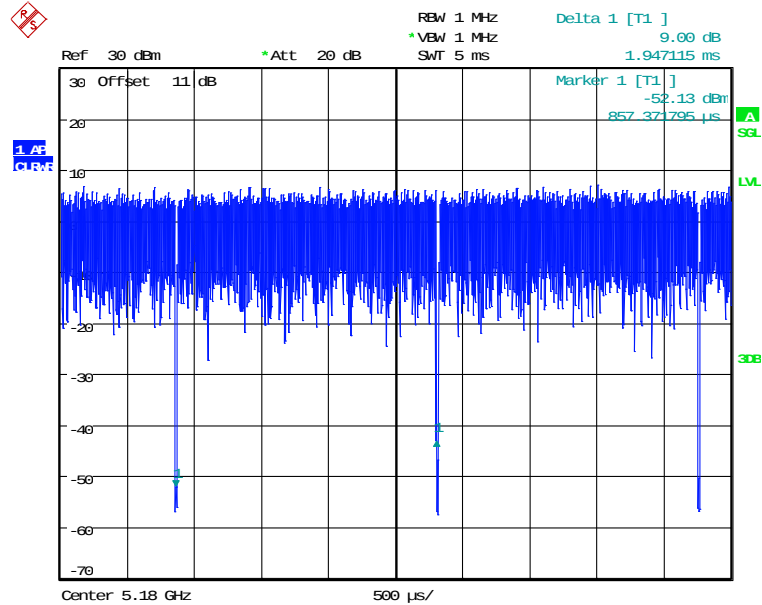
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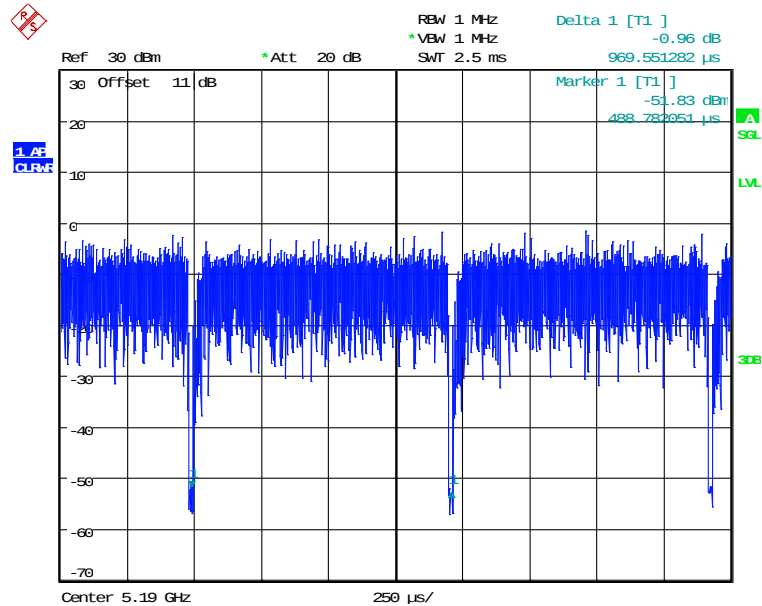
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Date: 6.AUG.2025 11:33:19



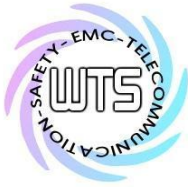
Registration number: W6M22507-24608-EE
FCC ID: 2ARIOCC0032



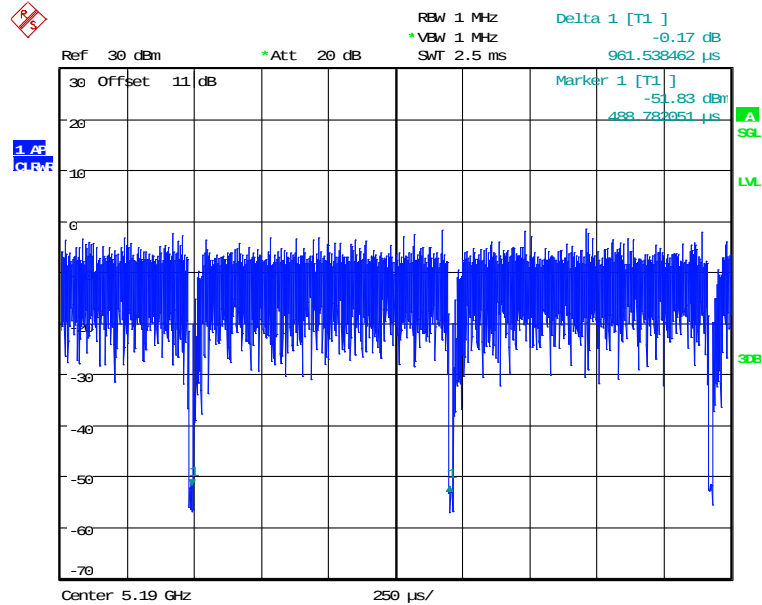
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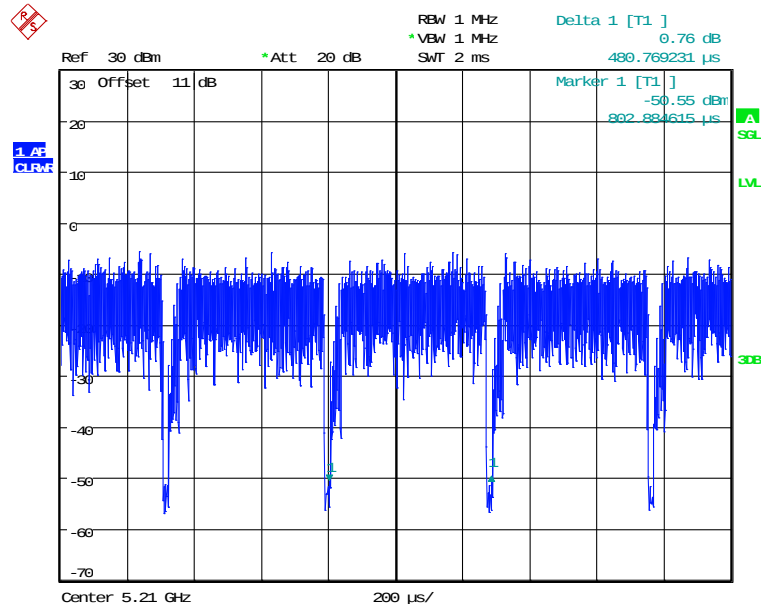
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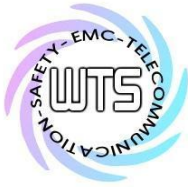
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FCC ID: 2ARIOCC0032



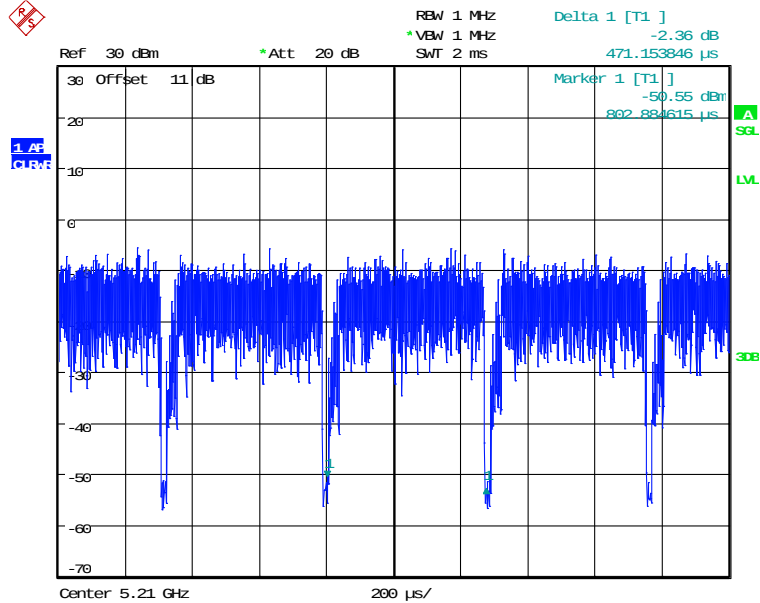
DUTY 802.11N40
Date: 6.AUG.2025 11:34:19



DUTY 802.11AC80
Date: 6.AUG.2025 11:35:09



Registration number: W6M22507-24608-EE
FCC ID: 2ARIOCC0032



DUTY 802.11AC80
Date: 6.AUG.2025 11:35:16

1.7 Test standards

FCC KDB Publication
447498 D01 General RF Exposure Guidance v06



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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 : 1.63 dB

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



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2.3 Test Equipment List

Max output power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13



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3 Equivalent Isotropic Radiated Power (EIRP)

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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	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

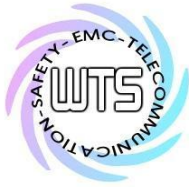
E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

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

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{3770 \times d^2}$$

mW/cm².



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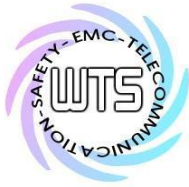
WLAN 2.4G

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11b	Ch 1 : 2412 MHz	16.07	2.8	0.0153	1	0.0153
	Ch 6 : 2437 MHz	14.48	2.8	0.0106	1	0.0106
	Ch 11 : 2462 MHz	12.31	2.8	0.0065	1	0.0065
802.11g	Ch 1 : 2412 MHz	16.11	2.8	0.0155	1	0.0155
	Ch 6 : 2437 MHz	13.29	2.8	0.0081	1	0.0081
	Ch 11 : 2462 MHz	11.40	2.8	0.0052	1	0.0052
802.11 n 20MHz	Ch 1 : 2412 MHz	13.77	2.8	0.009	1	0.009
	Ch 6 : 2437 MHz	11.75	2.8	0.0057	1	0.0057
	Ch 11 : 2462 MHz	7.68	2.8	0.0022	1	0.0022
802.11 n 40MHz	Ch 1 : 2422 MHz	10.17	2.8	0.0039	1	0.0039
	Ch 4 : 2437 MHz	8.63	2.8	0.0028	1	0.0028
	Ch 7 : 2452 MHz	16.07	2.8	0.0153	1	0.0153

WLAN 5G

Band 1

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 36 : 5180 MHz	12.31	3.4	0.0074	1	0.0074
	Ch 44 : 5220 MHz	15.37	3.4	0.015	1	0.015
	Ch 48 : 5240 MHz	15.41	3.4	0.0151	1	0.0151
802.11 n 20MHz	Ch 36 : 5180 MHz	11.59	3.4	0.0063	1	0.0063
	Ch 44 : 5220 MHz	15.30	3.4	0.0147	1	0.0147
	Ch 48 : 5240 MHz	15.39	3.4	0.0151	1	0.0151
802.11 n 40MHz	Ch 38 : 5190 MHz	9.08	3.4	0.0035	1	0.0035
	Ch 46 : 5230 MHz	12.32	3.4	0.0074	1	0.0074
802.11 ac 80MHz	Ch 42 : 5210 MHz	8.69	3.4	0.0032	1	0.0032



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Band 2

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 52 : 5260 MHz	15.14	3.4	0.0142	1	0.0142
	Ch 60 : 5300 MHz	15.16	3.4	0.0143	1	0.0143
	Ch 64 : 5320 MHz	13.37	3.4	0.0095	1	0.0095
802.11 n 20MHz	Ch 52 : 5260 MHz	15.04	3.4	0.0139	1	0.0139
	Ch 60 : 5300 MHz	15.09	3.4	0.014	1	0.014
	Ch 64 : 5320 MHz	12.27	3.4	0.0073	1	0.0073
802.11 n 40MHz	Ch 54 : 5270 MHz	12.14	3.4	0.0071	1	0.0071
	Ch 62 : 5310 MHz	11.91	3.4	0.0068	1	0.0068
802.11 ac 80MHz	Ch 58 : 5290 MHz	10.60	3.4	0.005	1	0.005

Band 3

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 100 : 5500 MHz	10.50	3.4	0.0049	1	0.0049
	Ch 120 : 5600 MHz	13.94	3.4	0.0108	1	0.0108
	Ch 140 : 5700 MHz	11.27	3.4	0.0058	1	0.0058
802.11 n 20MHz	Ch 100 : 5500 MHz	8.28	3.4	0.0029	1	0.0029
	Ch 120 : 5600 MHz	13.89	3.4	0.0107	1	0.0107
	Ch 140 : 5700 MHz	9.35	3.4	0.0037	1	0.0037
802.11 n 40MHz	Ch 102 : 5510 MHz	6.50	3.4	0.0019	1	0.0019
	Ch 116 : 5590 MHz	11.10	3.4	0.0056	1	0.0056
	Ch 134 : 5670 MHz	11.28	3.4	0.0058	1	0.0058
802.11 ac 80MHz	Ch 106 : 5530 MHz	7.71	3.4	0.0026	1	0.0026
	Ch 122 : 5610 MHz	10.00	3.4	0.0044	1	0.0044



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FCC ID: 2ARIOCC0032

Band 4

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 149 : 5745 MHz	14.07	3.4	0.0111	1	0.0111
	Ch 157 : 5785 MHz	14.06	3.4	0.0111	1	0.0111
	Ch 165 : 5825 MHz	14.10	3.4	0.0112	1	0.0112
802.11 n 20MHz	Ch 149 : 5745 MHz	13.92	3.4	0.0107	1	0.0107
	Ch 157 : 5785 MHz	13.99	3.4	0.0109	1	0.0109
	Ch 165 : 5825 MHz	13.81	3.4	0.0105	1	0.0105
802.11 n 40MHz	Ch 151 : 5755 MHz	11.32	3.4	0.0059	1	0.0059
	Ch 159 : 5795 MHz	11.30	3.4	0.0059	1	0.0059
802.11 ac 80MHz	Ch 155: 5775 MHz	9.91	3.4	0.0043	1	0.0043

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.