

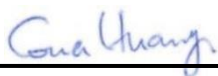
RF EXPOSURE EVALUATION REPORT

FCC ID : 2ABOF-GXRN8356910
Equipment : RN System (Multiband)
Brand Name : Tarana
Model Name : GXRN8356910
Applicant : Tarana Wireless, Inc.
630 Alder Drive, Milpitas, CA 95035
Manufacturer : Tarana Wireless, Inc.
630 Alder Drive, Milpitas, CA 95035
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



SPORTON INTERNATIONAL INC. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



Table of Contents

1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
2. MAXIMUM EIRP OUTPUT POWER.....	4
3. RF EXPOSURE LIMIT INTRODUCTION	5
4. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION	6
4.1. Standalone Power Density Calculation	6
4.2. Collocated Power Density Calculation.....	6



History of this test report

Report No.	Version	Description	Issued Date
FA651806	Rev. 01	Initial issue of report	Aug. 18, 2026

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
Equipment Name	RN System (Multiband)
Brand Name	Tarana
Model Name	GXRN8356910
FCC ID	2ABOF-GXRN8356910
Wireless Technology and Frequency Range	CBRS Band: 3550 MHz ~ 3700 MHz U-NII-3 Band: 5725 MHz ~ 5850 MHz U-NII-5 Band: 5925 MHz ~ 6425 MHz U-NII-7 Band: 6525 MHz ~ 6875 MHz
Mode	CBRS Band: 10, 20, 30, 40MHz U-NII-3 Band: 40MHz, 40+40MHz U-NII-5 Band: 40MHz, 40+40MHz, 40+40+40MHz, 40+40+40+40MHz U-NII-7 Band: 40MHz, 40+40MHz, 40+40+40MHz, 40+40+40+40MHz

Reviewed by: Jason Wang**Report Producer: Carlie Tsai****2. Maximum EIRP Output Power**

Mode	Maximum EIRP power(dBm)
CBRS	49.20
U-NII-3	47.66
U-NII-5	35.98
U-NII-7	35.97

Remark:

The maximum EIRP powers are according to the directional gain from Part 15E and Part 96 EMC reports and the maximum power from tune-up procedure.



3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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				
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

The MPE was calculated at 73 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band	Maximum Burst Average EIRP Power (dBm)	Duty Cycle (%)	Maximum Source based Time Average EIRP Power (dBm)	Maximum Source based Time Average EIRP Power (mW)	Power Density at 73cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
CBRS	49.20	41.83	45.41	34792.68	0.520	1.000	0.520
U-NII-3 Band	47.66	41.83	43.87	24405.51	0.365	1.000	0.365
U-NII-5 Band	35.98	41.83	32.19	1657.63	0.025	1.000	0.025
U-NII-7 Band	35.97	41.83	32.18	1653.82	0.025	1.000	0.025
2.4GHz WLAN ⁽²⁾	21.08	100.00	21.08	128.23	0.002	1.000	0.002

General Note:

- According to operation descriptional the maximum transmission duty cycle is 41.83%.
- The 2.4GHz WLAN EIRP refer to FCC ID: 2AC7Z-ESPC5WROOMU, Part 15C report no.:FR4N0707B.

4.2. Collocated Power Density Calculation

CBRS Power Density / Limit	U-NII-3 Power Density / Limit	U-NII-5 Power Density / Limit	U-NII-7 Power Density / Limit	2.4GHz WLAN Power Density / Limit	Σ (Power Density / Limit) of CBRS + U-NII-3 + U-NII-5 + U-NII-7 + 2.4GHz WLAN
0.520	0.365	0.025	0.025	0.002	0.937

Note:

- Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)]
- Considering the all transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.