RF EXPOSURE EVALUATION REPORT

FCC ID : 2ABOF-GXRN8356900

Equipment : RN System (Multiband)

Brand Name : Tarana

Model Name : GXRN8356900

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



Report No.: FA250408001

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History of this test report

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Report No.	Version	Description	Issued Date
FA250408001	Rev. 01	Initial issue of report	Jun. 04, 2025

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1. Description of Equipment Under Test (EUT)

Product Feature & Specification				
Equipment Name	RN System (Multiband)			
Brand Name	Tarana			
Model Name	GXRN8356900			
FCC ID	2ABOF-GXRN8356900			
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			

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Reviewed by: <u>Jason Wang</u> Report Producer: <u>Carlie Tsai</u>

2. Maximum EIRP Output Power

Mode	Maximum EIRP power(dBm)		
CBRS	47.87		
U-NII-3	47.65		
U-NII-5	36.00		
U-NII-7	36.00		

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.

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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)	d strength Magnetic field strength (A/m)		Averaging time (minutes)
800 B.	(A) Limits for Oc	cupational/Controlled Expo	sures	W
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/	f 4.89/	f *(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/	f 2.19/	f *(180/f2)	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 66 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

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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 66cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
CBRS	47.87	41.83	44.08	25614.62	0.468	1.000	0.468
U-NII-3 Band	47.65	41.83	43.86	24349.38	0.445	1.000	0.445
U-NII-5 Band	36.00	41.83	32.21	1665.28	0.030	1.000	0.030
U-NII-7 Band	36.00	41.83	32.21	1665.28	0.030	1.000	0.030

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General Note:

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	Σ (Power Density / Limit) of CBRS + U-NII-3 + U-NII-5 + U-NII-7
0.468	0.445	0.030	0.030	0.973

Note:

- 1. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for CBRS + U-NII-3 + U-NII-5 + U-NII-7.
- 2. Considering the CBRS collocation with the U-NII-3/5/7 transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 4 collocated transmitters is compliant.

Conclusion:

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

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^{1.} According to operation descriptional the maximum transmission duty cycle is 41.83%.