

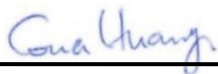
RF EXPOSURE EVALUATION REPORT

FCC ID : 2ABOF-G1RN3AHB012
Equipment : Remote Node (RN)
Brand Name : Tarana Wireless
Model Name : G1RN3AHB012
Marketing Name : G1RN3AHB012
Applicant : Tarana Wireless
590 Alder Drive, Milpitas, CA 95035
Manufacturer : Tarana Wireless
590 Alder Drive, Milpitas, CA 95035
Standard : 47 CFR Part 1.1307

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 1.1307 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 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. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FA230126002	Rev. 01	Initial issue of report	Apr. 11, 2023

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

Product Feature & Specification	
EUT Type	Remote Node (RN)
Brand Name	Tarana Wireless
Model Name	G1RN3AHB012
Marketing Name	G1RN3AHB012
FCC ID	2ABOF-G1RN3AHB012
Wireless Technology and Frequency Range	3555 MHz ~ 3695MHz
SW Version	SYS.A3.R10.XXX.0.994.026.02

Reviewed by: Jason Wang**Report Producer: Daisy Peng****2. Maximum EIRP output power**

Mode	Maximum EIRP power(dBm)
Single Carrier	47.04
Multi Carrier	49.04

Remark:

The maximum EIRP was according to tune-up and part96 report.

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 80 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 EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 80cm (mW/cm ²)	Limit (mW/cm ²)
Single carrier	47.04	50.58	50582.47	0.629	1.000
Multi-carrier	49.04	80.17	80167.81	0.997	1.000

Conclusion:

According to 47 CFR §1.1307, the RF exposure analysis concludes that the RF Exposure is FCC compliant.