



Test Report

Report No.: RKEYS251010103

Date: Oct. 24, 2025

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RF EXPOSURE EVALUATION REPORT

for

Product: Nova light

Model: TB2

FCC ID: 2ARJH-TB2

IC: 29830-TB2

Report No.: RKEYS251010103

Issued for

Shenzhen Champon Technology Co., Ltd.

**1A-1004, International Innovation Valley, Dashi 1st Road, Xili, Nanshan, Shenzhen,
518055, China**

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

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1. TEST CERTIFICATION

Product: Nova light

Trade mark: Onvis

FCC ID: 2ARJH-TB2

IC: 29830-TB2

Model: TB2

Model List(s): /

Applicant : Shenzhen Champon Technology Co., Ltd.

Address: 1A-1004, International Innovation Valley, Dashi 1st Road, Xili, Nanshan, Shenzhen, 518055, China

Manufacturer: Shenzhen Champon Technology Co., Ltd.

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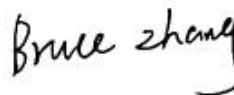
Applicable Standards: CFR 47, FCC Part 2.1091
RSS-102 Issue 6

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

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Approved by:

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2. GENERAL INFORMATION

2.1. General Description of E.U.T.

Product Name	Nova light
Model Name	TB2
Specification	Bluetooth
Operating frequency	2402-2480MHz
Number of Channel	BLE:40
Antenna installation	spring antenna
Antenna Gain	2.8dBi
Type of Modulation	GFSK

3. RF EXPOSURE EVALUATION FOR FCC

3.1. Requirement

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

3.2. Calculation method

The following formula was used to calculate the Power Density:

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

Where:

S: Power density(mW/cm²)

P: power input to antenna (mW)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (mW)=10^{^(dBm /10)}

2) G (Antenna gain in numeric) = 10^{^(Antenna gain in dBi /10)}

3) $\pi=3.142$

3.3. Evaluation Result

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
BLE 2M	-3.76	-4±1dBm

The maximum power density at a distance of 0.2 m is shown as below:

Mode	Maximum Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Maximum E.I.R.P. (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
BLE 2M	-3	2.8	1.91	0.5012	0.0002	1	PASS

3.4. Conclusion

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

4. RF EXPOSURE EVALUATION FOR IC

4.1. Requirement

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $22.48/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

4.2. Tune-up Result

Mode	Frequency (MHz)	Output Power (dBm)	Antenna Gain(dBi)	EIRP (dBm)	EIRP Turn up (dBm)
BLE 2M	2402	-3.76	2.8	-0.96	-1 ± 1

4.3. Evaluation Result

Mode	Frequency (MHz)	Max. EIRP Turn up (dBm)	Distance (mm)	Max. E.I.R.P (mW)	Exemption Limits (mW)	Result
BLE 2M	2402	0	20	1	2676.42	PASS

4.4. Conclusion

According to the RSS-102 issue 6 Radio Frequency (RF) Exposure Compliance section 6.3 determine the device is exclusion from SAR test.

****End of Report****