# RF Exposure Evaluation Report

| | |
|---|---|
| **Application No.:** | DNT240894R1387-3138 |
| **Applicant:** | MAX SALES GROUP |
| **Address of Applicant:** | 15240 East Nelson Ave.City of Industry, CCA 91744 USA |
| **EUT Description:** | RGB BLUETOOTH SPEAKER WITH ALARM/CLOCK-WHITE |
| **Model No.:** | NV-08677 |
| **FCC ID:** | 2AZSG-NV-08677 |
| **Power supply** | DC 5V From Adapter Input AC 100-240V,50/60Hz |
| **Trade Mark:** | / |
| **Standards:** | FCC CFR 47 Part 1.1307(b)&1.1310<br>KDB 680106 D01 RF Exposure Wireless Charging Apps V03r01 |
| **Date of Receipt:** | 2024/5/8 |
| **Date of Test:** | 2024/5/10 to 2024/5/17 |
| **Date of Issue:** | 2024/5/20 |
| **Test Result:** | **PASS *** |

**Prepared By:** Wayne.Lin (Testing Engineer)

**Reviewed By:** Pencils.Chen (Project Engineer)

**Approved By:** Jesse Chen (Manager)

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

**Dongguan DN Testing Co., Ltd.**

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**Report Revise Record**

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | May.20, 2024 | Valid | Original Report |

# Test Summary

| No. | Description of Test Item | FCC Standard Section | Results |
|---|---|---|---|
| 1 | Maximum Permissible Exposure | Part 1.1307(b)&1.1310 | PASS |

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# 1 General Information

## 1.1 Test Location

| | |
|---|---|
| Company: | Dongguan DN Testing Co., Ltd |
| Address: | No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China |
| Test engineer: | Wayne Lin |

## 1.2 General Description of EUT

| | |
|---|---|
| Manufacturer: | IDEA PLUS INTERNATIONAL(HK)LTD. |
| Address of Manufacturer: | RM-1318-19,HOLLYWOOD PLAZA MONG KOK KOWLOON HK |
| EUT Description:: | RGB BLUETOOTH SPEAKER WITH ALARM/CLOCK-WHITE |
| Test Model No.: | NV-08677 |
| Additional Model(s): | / |
| Chip Type: | R9609 |
| Serial Number | PR240894R1387 |
| Power Supply | DC 5V From Adapter Input AC 100-240V,50/60Hz |
| Output Max Wireless Charge Power: | 5W |
| Trade Mark: | N/A |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Sample Type: | ☐ Portable Device, ☐ Module, ☒ Mobile Device |
| Antenna Type: | ☐ External, ☒ Integrated |

Remark:

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

## 1.3 Test Mode

| Test Item | Test Mode |
|---|---|
| Maximum Permissible Exposure | Wireless Charging |
| | Wireless Charging with Half Load |
| | Wireless Charging with Full Load |
| Note： The worst Full Load status is recorded in the report | |

## 1.4 Test Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| Electric and Magnetic Field Probe-Analyzer | Senfu STT | LF-04 | I-1044 | Oct 18,2021 | Oct 17,2024 |

# 2 Maximum Permissible Exposure

## 2.1 Limit

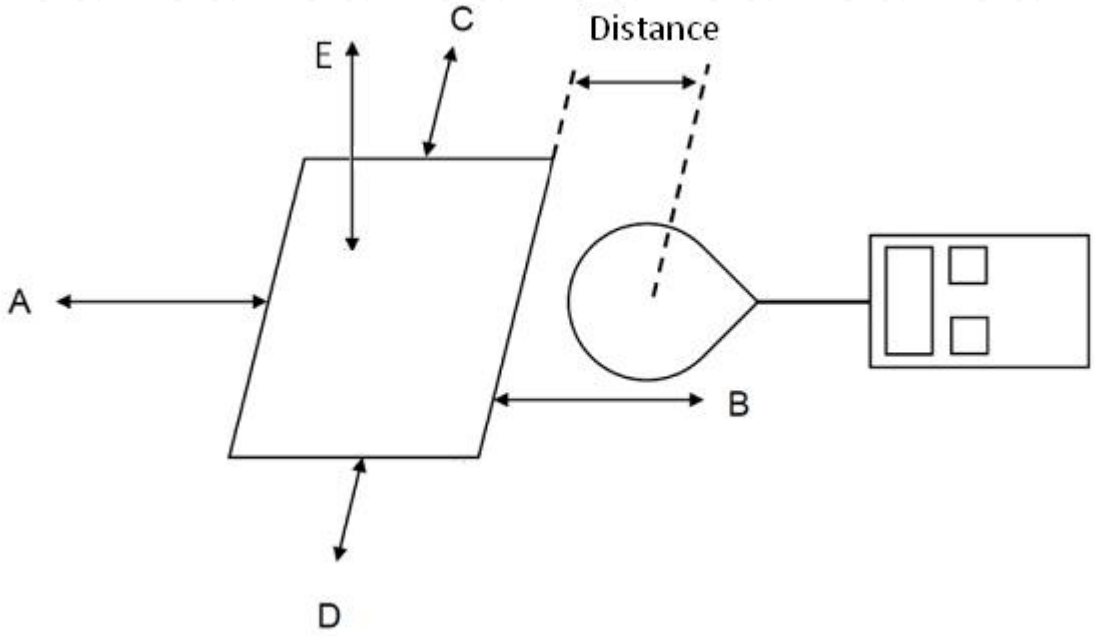
**Limits for Maximum Permissible Exposure (MPE)**

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm2) | Averaging time (minutes) |
|---|---|---|---|---|
| **(A) Limits for Occupational/Controlled Exposure** | | | | |
| 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 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 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 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | 1.0 | 30 |

Note:

1. f = frequency in MHz * = Plane-wave equivalent power density.
2. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

## 2.2 Test Setup A




## 2.3 Test Procedure

a. The test was performed on 360 degree turn table in anechoic chamber.

b. The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe, for test setup A.

d. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.

## 2.4 Equipment Approval Considerations

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance.

| | |
|---|---|
| 1 | Power transfer frequency is less that 1 MHz |
| | YES; the device operated in the frequency range from 110.5-205KHz. |
| 2 | Output power from each primary coil is less than or equal to 15 watts. |
| | YES; the maximum output power of the primary coil is 5W. |
| 3 | The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time. |
| | YES; the transfer system includes only single primary and secondary coils. |
| 4 | Client device is placed directly in contact with the transmitter. |
| | YES; Client device is placed directly in contact with the transmitter. |
| 5 | Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). |
| | No. |
| 6 | The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. |
| | YES; The EUT field strength levels are 50% x MPE limts. |

## 2.5 Test Result for Test setup A:

| E-field strength | |
|---|---|
| Frequency range (KHz) | 110.5 to 205 |
| Test Mode | Full Load |
| Position A(V/m) | 1.324 |
| Position B(V/m) | 1.775 |
| Position C(V/m) | 2.134 |
| Position D(V/m) | 1.094 |
| Position E(V/m) | 4.564 |
| Limits (V/m) | 614 |
| 50% Limits(V/m) | 307 |

| H-field strength | |
|---|---|
| Frequency range (KHz) | 110.5 to 205 |
| Test Mode | Full Load |
| Position A(A/m) | 0.018 |
| Position B(A/m) | 0.021 |
| Position C(A/m) | 0.016 |
| Position D(A/m) | 0.019 |
| Position E(A/m) | 0.052 |
| Limits (A/m) | 1.630 |
| 50% Limits (A/m) | 0.815 |

---END REPORT---