

TEST REPORT

Reference No..... : WTX23X02031932W002
FCC ID..... : 2BAGX-REMARFID
Applicant..... : REMA USA LLC
Address..... : 385 South Woods Drive, Fountain Inn, SC 29644
Manufacturer..... : REMA Technology Shanghai Co., Ltd.
Address..... : No.1590 Songfu Road, Qingpu Industry Zone, 201706 Shanghai, P.R.
China
Product Name..... : Crown Tiller Handle - RFID
Model No..... : 9602431
Standards..... : KDB 447498 D01 v06
Date of Receipt sample : 2023-02-27
Date of Test..... : 2023-02-27 to 2023-03-17
Date of Issue..... : 2023-03-17
Test Report Form No. : WTX_KDB447498 D01_V06W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

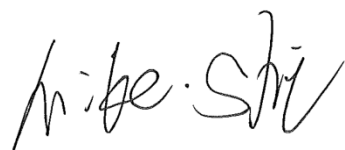
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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00 | 2023-03-17 | Original |
| / | / | / |

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

| General Description of EUT | |
|--|----------------------------|
| Product Name: | Crown Tiller Handle - RFID |
| Trade Name: | / |
| Model No.: | 9602431 |
| Adding Model(s): | / |
| Rated Voltage: | DC48V |
| Power Adapter Model: | / |
| <i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i> | |

| Technical Characteristics of EUT | |
|----------------------------------|--------------|
| Frequency Range: | 119-140kHz |
| Antenna Type: | Coil Antenna |
| Rated Current: | / |
| Rated Power: | / |

1.2 Auxiliary Equipment List and Details

Auxiliary Equipment List and Details

| Description | Manufacturer | Model | Serial Number |
|--------------|--------------|------------|---------------|
| Power Supply | MEAN WELL | LRS-350-48 | / |
| Computer | Lenovo | L13 Yoga | / |

1.3 Test Equipment List and Details

| Description | Manufacturer | Model | Serial No. | Cal Date | Due Date |
|---|--------------|-----------|------------|------------|------------|
| ELECTRIC AND MAGNETIC FIELD ANALYZER | Narda | EHP-200AC | 180ZX10226 | 2021-05-20 | 2024-05-19 |
| Note: The deviation response is 0.8dB. | | | | | |

2. RF Exposure Test Report

2.1 Standard Applicable

According to §1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

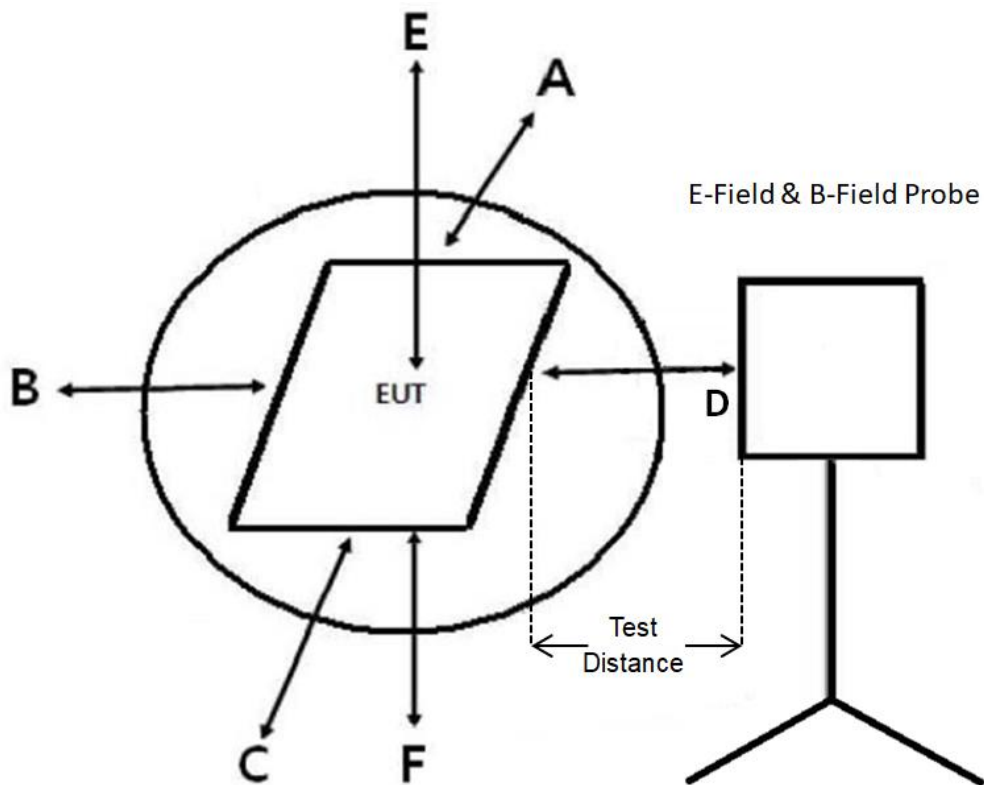
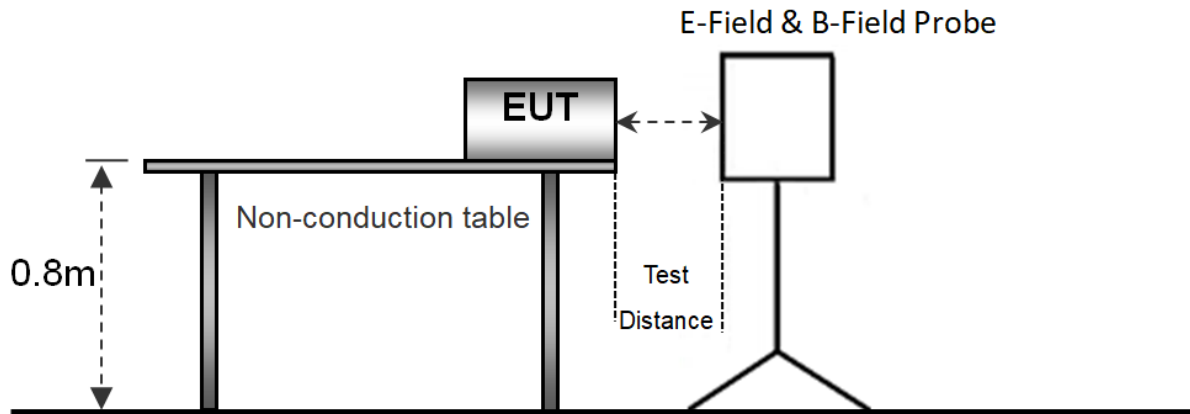
| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled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

f = frequency in MHz * = Plane-wave equivalent power density

2.2 Test Conditions

| Test Mode | Description | Remark | Power Supply Mode |
|---|-------------|--------|-------------------|
| TM1 | Transmitter | RFID | DC48V |
| Note: The EUT was tested with empty load, half load, and full load, and recorded the worst mode (full load) data in the report. | | | |
| Measurement Distance: | 0 cm | | |

2.3 Test Procedure



- The measurement probe was placed at test distance(0 cm for A,B,C,D,F, E) which is between the edge of the charger and the geometric center of probe.
- The highest emission level was recorded at the measurement points (A, B, C, D, E, F).
- The EUT was measured according to the distance of KDB 447498-D01 v06.

2.4 Test Result*Test Mode: TM1*

| Electric Field Emissions | | | |
|---------------------------------|----------------------------|-------------------|------------------------|
| Test Position | Measure Value (V/m) | Limit(V/m) | 50% Limit (V/m) |
| Point E | 6.89 | 614 | 307 |
| Point F | 1.86 | 614 | 307 |
| Point A | 3.10 | 614 | 307 |
| Point B | 4.96 | 614 | 307 |
| Point C | 0.54 | 614 | 307 |
| Point D | 3.12 | 614 | 307 |
| Magnetic Field Emissions | | | |
| Test Position | Measure Value (A/m) | Limit(A/m) | 50% Limit (A/m) |
| Point E | 0.46 | 1.63 | 0.815 |
| Point F | 0.16 | 1.63 | 0.815 |
| Point A | 0.21 | 1.63 | 0.815 |
| Point B | 0.23 | 1.63 | 0.815 |
| Point C | 0.12 | 1.63 | 0.815 |
| Point D | 0.22 | 1.63 | 0.815 |

2.5 Measurement Uncertainty

| Measurement uncertainty | | |
|--------------------------|------------|------------------|
| Parameter | Conditions | Uncertainty |
| Electric Field Emissions | Radiated | ± 1.56 (V/m) |
| Magnetic Field Emissions | Radiated | ± 0.08 (A/m) |

2.6 Test Photos



APPENDIX PHOTOGRAPHS

Please refer to "ANNEX"

***** END OF REPORT *****