

## TEST REPORT

**Report No.: 24091026HKG-001**

Design Pool Limited

Application For Certification  
(Original Grant)

**FCC ID: X3QRSOLO01**

Rise Magnetic Wireless Charger

**Prepared and Checked by:**

**Approved by:**

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Date: October 24, 2024

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## TEST REPORT

### GENERAL INFORMATION

|                                  |   |
|----------------------------------|---|
| <b>Grantee:</b>                  | Design Pool Limited   |
| <b>Grantee Address:</b>          | 33/F., 88 Hing Fat Street,<br>Causeway Bay, Hong Kong.  |
| <b>Manufacturer:</b>             | Hank (Electronics) Co., Ltd.  |
| <b>Manufacturer Address:</b>     | No. 118, Shaxin Road, Tangxia Town, Dongguan City, Guangdong<br>Province, China.  |
| <b>Brand Name:</b>               | Native Union  |
| <b>Model:</b>                    | RSOLO01   |
| <b>Type of EUT:</b>              | Wireless Power Transfer Device - Transmitter  |
| <b>Description of EUT:</b>       | Rise Magnetic Wireless Charger  |
| <b>Serial Number:</b>            | 37027324  |
| <b>FCC ID:</b>                   | X3QRSOLO01  |
| <b>Date of Sample Submitted:</b> | September 30, 2024  |
| <b>Date of Test:</b>             | September 30, 2024 to October 18, 2024  |
| <b>Report No.:</b>               | 24091026HKG-001   |
| <b>Report Date:</b>              | October 24, 2024  |
| <b>Environmental Conditions:</b> | Temperature: +10 to 40°C<br>Humidity: 10 to 90%   |
| <b>Conclusion:</b>               | Test was conducted by client submitted sample. The submitted<br>sample as received complied with the 47 CFR Part 15<br>Certification. |

## TEST REPORT

### SUMMARY OF TEST RESULT

| Test Specification                         | Reference      | Results  |
|--|----------------|----------|
| Transmitter Power Line Conducted Emissions | 15.207         | Complied |
| Radiated Emission                          | 15.249, 15.209 | Complied |
| Radiated Emission on the Bandedge          |                |          |
| Radiated Emission in Restricted Bands      | 15.205         | Complied |

The equipment under test is found to be complying with the following standards:  
FCC Part 15, October 1, 2022 Edition

- Note:
1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the pervisions of this section.
  2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

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## TEST REPORT

### 1.0 GENERAL DESCRIPTION

#### 1.1 Product Description

The Equipment Under Test (EUT), is a wireless charger that is designed to work on table. The EUT is powered by 120VAC, the charge pad is operated at frequency range of 115kHz to 205kHz and 360kHz. The maximum wireless power transmission for the charge pad is 15W.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

#### 1.2 Related Submittal(s) Grants

This is a single application for certification of a transmitter.

The receiver for this transmitter is exempted from the Part 15 technical rules per 15.101(b).

#### 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the “**Justification Section**” of this Application.

#### 1.4 Test Facility

The 3m Chamber and conducted measurement facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong SAR, China. This test facility and site measurement data have been placed on file with the FCC.

## TEST REPORT

### 2.0 SYSTEM TEST CONFIGURATION

#### 2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The device was powered by 120VAC.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

There are different testing conditions for this EUT, Only the worst-case data is shown in this report. For the testing condition charging with full load, it refers to all loads are charging at 1% battery power simultaneously.

#### 2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF Signal continuously.

#### 2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

#### 2.4 Measurement Uncertainty

Decision Rule for compliance: For FCC/IC standard, the measured value must be within the limits of applicable standard without accounting for the measurement uncertainty. For EN/IEC/HKTA/HKTC standard, conformity rules will be used as per standard directly excepted EN/IEC 61000-3-2, EN/IEC 61000-3-3, HKTA1004, HKCA1008, HKTA1019, HKTA1020, HKTA1041 and HKTA1044.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

## TEST REPORT

### 2.5 Support Equipment List and Description

| Description   | Remark                |
|---|-----------------------|
| An AC adaptor (Model: TB-G-C35-I-IP; Input: 100-240VAC 50/60Hz 1.0A; Output: 5.0V 3.0A, 9.0V 3.0A, 12.0V 2.92A, 15.0V 2.33A, 20.0V 1.75A) | Provided by Applicant |
| 2m USB Type-C Power Supply Cable  | Provided by Applicant |
| iPhone  | Provided by Intertek  |
| 15W Loading   | Provided by Intertek  |

## TEST REPORT

### 3.0 EMISSION RESULTS

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

#### 3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG - AV$$

where

- FS = Field Strength in dB $\mu$ V/m
- RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V
- AF = Antenna Factor in dB
- CF = Cable Attenuation Factor in dB
- AG = Amplifier Gain in dB
- AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain.

An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where

- FS = Field Strength in dB $\mu$ V/m
- RR = RA - AG - AV in dB $\mu$ V
- LF = CF + AF in dB

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29.0 dB and average factor of 5.0 dB are subtracted, giving a field strength of 27.0 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

|                               |                      |
|-------------------------------|----------------------|
| RA = 52.0 dB $\mu$ V/m        |                      |
| AF = 7.4 dB                   | RR = 18.0 dB $\mu$ V |
| CF = 1.6 dB                   | LF = 9.0 dB          |
| AG = 29.0 dB                  |                      |
| AV = 5.0 dB                   |                      |
| FS = RR + LF                  |                      |
| FS = 18 + 9 = 27 dB $\mu$ V/m |                      |

Level in  $\mu$ V/m = Common Antilogarithm [(27 dB $\mu$ V/m)/20] = 22.4  $\mu$ V/m



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### 3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 455.70875 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: setup photos.pdf.

### 3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 10.3 dB

### 3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 0.6675 MHz

For electronic filing, the worst case line-conducted configuration photographs are saved with filename: setup photos.pdf.

### 3.5 Conducted Emission Data

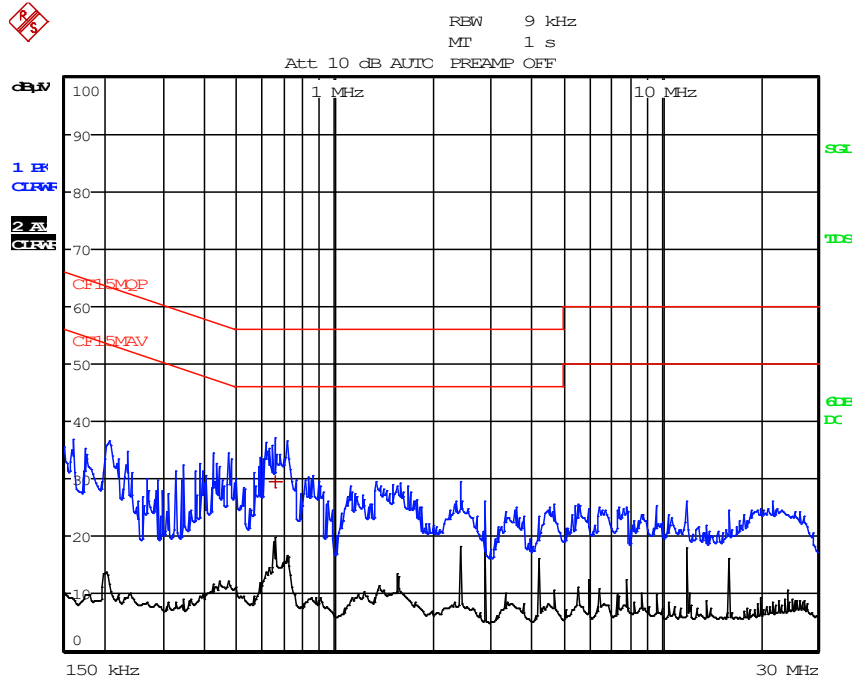
The plot(s) and data in the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgment: Pass by 13.35 dB

## TEST REPORT

### CONDUCTED EMISSION

Model: RSOLO01  
Date of Test: October 17, 2024  
Worst-Case Operating Mode: Standby Mode



Note: Measurement Uncertainty is  $\pm 4.2$  dB at a level of confidence of 95%.

TEST REPORT

CONDUCTED EMISSION (CONT'D)

Model:RSOLO01

Date of Test:October 17, 2024

Worst-Case Operating Mode:Standby Mode

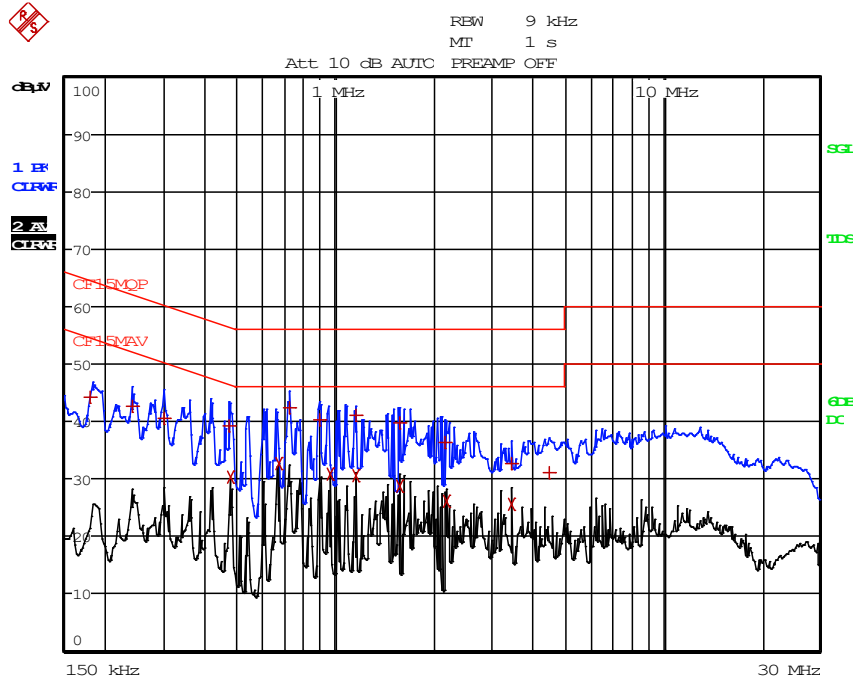
| EDIT PEAK LIST (Final Measurement Results) |           |            |                |
|--|-----------|------------|----------------|
| Trace1:                                    | CF15MQP   |            |                |
| Trace2:                                    | CF15MAV   |            |                |
| Trace3:                                    | ---       |            |                |
| TRACE                                      | FREQUENCY | LEVEL dBµV | DELTA LIMIT dB |
| 1 Quasi Peak                               | 654 kHz   | 29.45 L1   | -26.54         |

Note: Measurement Uncertainty is ±4.2dB at a level of confidence of 95%.

## TEST REPORT

### CONDUCTED EMISSION

Model: RSOLO01  
Date of Test: October 17, 2024  
Worst-Case Operating Mode: Charging with Full Load



Note: Measurement Uncertainty is  $\pm 4.2$  dB at a level of confidence of 95%.

## TEST REPORT

### CONDUCTED EMISSION (CONT'D)

Model: RSOLO01  
Date of Test: October 17, 2024  
Worst-Case Operating Mode: Charging with Full Load

| EDIT PEAK LIST (Final Measurement Results) |            |            |  |                |
|--|------------|------------|--|----------------|
| Trace1:                                    | CF15MQP    |            |  |                |
| Trace2:                                    | CF15MAV    |            |  |                |
| Trace3:                                    | ---        |            |  |                |
| TRACE                                      | FREQUENCY  | LEVEL dBμV |  | DELTA LIMIT dB |
| 1 Quasi Peak                               | 181.5 kHz  | 44.17 N    |  | -20.24         |
| 1 Quasi Peak                               | 240 kHz    | 42.64 L1   |  | -19.45         |
| 1 Quasi Peak                               | 298.5 kHz  | 40.63 N    |  | -19.64         |
| 1 Quasi Peak                               | 474 kHz    | 39.23 N    |  | -17.21         |
| 2 CISPR Average                            | 478.5 kHz  | 30.23 L1   |  | -16.12         |
| 2 CISPR Average                            | 667.5 kHz  | 32.64 L1   |  | -13.35         |
| 1 Quasi Peak                               | 721.5 kHz  | 42.43 L1   |  | -13.56         |
| 1 Quasi Peak                               | 897 kHz    | 40.40 N    |  | -15.59         |
| 2 CISPR Average                            | 960 kHz    | 30.83 L1   |  | -15.16         |
| 1 Quasi Peak                               | 1.149 MHz  | 41.10 N    |  | -14.89         |
| 2 CISPR Average                            | 1.149 MHz  | 30.68 N    |  | -15.31         |
| 2 CISPR Average                            | 1.5675 MHz | 28.78 L1   |  | -17.21         |
| 1 Quasi Peak                               | 1.572 MHz  | 39.86 N    |  | -16.13         |
| 1 Quasi Peak                               | 2.1705 MHz | 36.37 L1   |  | -19.62         |
| 2 CISPR Average                            | 2.175 MHz  | 26.04 L1   |  | -19.95         |
| 1 Quasi Peak                               | 3.453 MHz  | 32.66 N    |  | -23.33         |
| 2 CISPR Average                            | 3.453 MHz  | 25.70 L1   |  | -20.29         |
| 1 Quasi Peak                               | 4.497 MHz  | 31.04 L1   |  | -24.95         |

Note: Measurement Uncertainty is  $\pm 4.2$ dB at a level of confidence of 95%.

## TEST REPORT

### RADIATED EMISSIONS

Model: RSOLO01  
Date of Test: October 17, 2024  
Worst-Case Operating Mode: Standby Mode

Table 1  
Pursuant to FCC Part 15 Section 15.209 Requirement

| Frequency (MHz) | Read Level (dBμV) | MaxPeak (dBμV/m) | Quasi-Peak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-------------------|------------------|---------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.127832        | 55.60             | ---              | 67.00               | 105.47         | -38.47      | 100.0       | O   | 108.0         | 11.4         |
| 0.519394        | 33.35             | 44.75            | ---                 | 73.29          | -28.55      | 100.0       | O   | 180.0         | 11.4         |
| 0.702225        | 30.72             | 42.12            | ---                 | 70.68          | -28.55      | 100.0       | O   | 359.0         | 11.4         |
| 0.993263        | 28.35             | 39.75            | ---                 | 67.67          | -27.92      | 100.0       | O   | 0.0           | 11.4         |
| 1.273106        | 26.67             | 38.17            | ---                 | 65.51          | -27.34      | 100.0       | O   | 0.0           | 11.5         |
| 1.414894        | 23.47             | 34.97            | ---                 | 64.59          | -29.62      | 100.0       | O   | 0.0           | 11.5         |

- NOTES:
1. Peak and Quasi-Peak Detector Data unless otherwise stated.
  2. All measurements were made at 3 meters.
  3. Negative value in the margin column shows emission below limit.
  4. Loop antenna is used for the emissions below 30MHz.
  5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
  6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.
  7. Corr. (dB/m) = Antenna Factor (dB) + Cable Loss (dB)  
Max Peak (dBμV/m) or Quasi-Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)  
Margin (dB) = Max Peak (dBμV/m) – Limit (dBμV/m) or Quasi-Peak (dBμV/m) – Limit (dBμV/m)

## TEST REPORT

### RADIATED EMISSIONS

Model: RSOLO01  
Date of Test: October 17, 2024  
Worst-Case Operating Mode: Charging with Full Load

Table 2  
Pursuant to FCC Part 15 Section 15.209 Requirement

| Frequency (MHz) | Read Level (dBμV) | MaxPeak (dBμV/m) | Quasi-Peak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-------------------|------------------|---------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.127831        | 67.58             | ---              | 78.98               | 105.47         | -26.49      | 100.0       | O   | 0.0           | 11.4         |
| 0.381338        | 42.12             | 53.52            | ---                 | 95.98          | -42.46      | 100.0       | O   | 0.0           | 11.4         |
| 0.552975        | 33.51             | 44.91            | ---                 | 72.75          | -27.84      | 100.0       | O   | 180.0         | 11.4         |
| 0.638794        | 32.17             | 43.57            | ---                 | 71.49          | -27.93      | 100.0       | O   | 0.0           | 11.4         |
| 0.892519        | 29.04             | 40.54            | ---                 | 68.59          | -28.06      | 100.0       | O   | 0.0           | 11.5         |
| 1.149975        | 26.27             | 37.77            | ---                 | 66.39          | -28.62      | 100.0       | O   | 0.0           | 11.5         |

- NOTES:
1. Peak and Quasi-Peak Detector Data unless otherwise stated.
  2. All measurements were made at 3 meters.
  3. Negative value in the margin column shows emission below limit.
  4. Loop antenna is used for the emissions below 30MHz.
  5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
  6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.
  7.  $\text{Corr. (dB/m)} = \text{Antenna Factor (dB)} + \text{Cable Loss (dB)}$   
 $\text{Max Peak (dB}\mu\text{V/m)} \text{ or Quasi-Peak (dB}\mu\text{V/m)} = \text{Corr. (dB/m)} + \text{Read Level (dB}\mu\text{V)}$   
 $\text{Margin (dB)} = \text{Max Peak (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)} \text{ or Quasi-Peak (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}$

## TEST REPORT

### RADIATED EMISSIONS

Model: RSOLO01  
Date of Test: October 17, 2024  
Worst-Case Operating Mode: Standby Mode

Table 3  
Pursuant to FCC Part 15 Section 15.209 Requirement

| Frequency (MHz) | Read Level (dBμV) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 49.278750       | 9.00              | 16.90            | 40.00          | -23.10      | 100.0       | V   | 180.0         | 7.9          |
| 243.157500      | 8.99              | 22.99            | 46.00          | -23.01      | 200.0       | V   | 270.0         | 14.0         |
| 455.587500      | 15.09             | 34.99            | 46.00          | -11.01      | 200.0       | H   | 270.0         | 19.9         |
| 480.443750      | 10.36             | 31.06            | 46.00          | -14.94      | 100.0       | H   | 270.0         | 20.7         |
| 640.615000      | 5.59              | 29.79            | 46.00          | -16.21      | 100.0       | V   | 270.0         | 24.2         |
| 715.911250      | 3.43              | 28.73            | 46.00          | -17.27      | 100.0       | H   | 180.0         | 25.3         |

- NOTES:
1. Peak Detector Data unless otherwise stated.
  2. All measurements were made at 3 meters.
  3. Negative value in the margin column shows emission below limit.
  4. Loop antenna is used for the emissions below 30MHz.
  5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
  6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.
  7.  $\text{Corr. (dB/m)} = \text{Antenna Factor (dB)} + \text{Cable Loss (dB)}$   
 $\text{Max Peak (dB}\mu\text{V/m) or Quasi-Peak (dB}\mu\text{V/m)} = \text{Corr. (dB/m)} + \text{Read Level (dB}\mu\text{V)}$   
 $\text{Margin (dB)} = \text{Max Peak (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m) or Quasi-Peak (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}$



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### RADIATED EMISSIONS

Model: RSOLO01  
Date of Test: October 17, 2024  
Worst-Case Operating Mode: Charging with Full Load

Table 4  
Pursuant to FCC Part 15 Section 15.209 Requirement

| Frequency (MHz) | Read Level (dBμV) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|-------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 191.626250      | 12.60             | 23.90            | 43.50          | -19.60      | 100.0       | V   | 0.0           | 11.3         |
| 406.360000      | 5.98              | 25.78            | 46.00          | -20.22      | 100.0       | V   | 0.0           | 19.8         |
| 455.708750      | 15.77             | 35.67            | 46.00          | -10.33      | 100.0       | H   | 270.0         | 19.9         |
| 529.671250      | 7.11              | 29.71            | 46.00          | -16.29      | 100.0       | V   | 0.0           | 22.6         |
| 591.145000      | 7.80              | 30.80            | 46.00          | -15.20      | 100.0       | V   | 270.0         | 23.0         |
| 640.493750      | 7.00              | 31.20            | 46.00          | -14.80      | 200.0       | V   | 180.0         | 24.2         |

- NOTES: 1. Peak Detector Data unless otherwise stated.  
2. All measurements were made at 3 meters.  
3. Negative value in the margin column shows emission below limit.  
4. Loop antenna is used for the emissions below 30MHz.  
5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.  
6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.  
7. Corr. (dB/m) = Antenna Factor (dB) + Cable Loss (dB)  
Max Peak (dBμV/m) or Quasi-Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)  
Margin (dB) = Max Peak (dBμV/m) – Limit (dBμV/m) or Quasi-Peak (dBμV/m) – Limit (dBμV/m)

## TEST REPORT

### 4.0 EQUIPMENT PHOTOGRAPHS

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

### 5.0 PRODUCT LABELLING

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

### 6.0 TECHNICAL SPECIFICATIONS

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

### 7.0 INSTRUCTION MANUAL

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

## TEST REPORT

### 8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth.

#### 8.1 Measured Bandwidth

Pursuant to FCC Part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designed (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

#### 8.2 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. For line conducted emissions, the range scanned is 150 kHz to 30 MHz.

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.10 (2013).

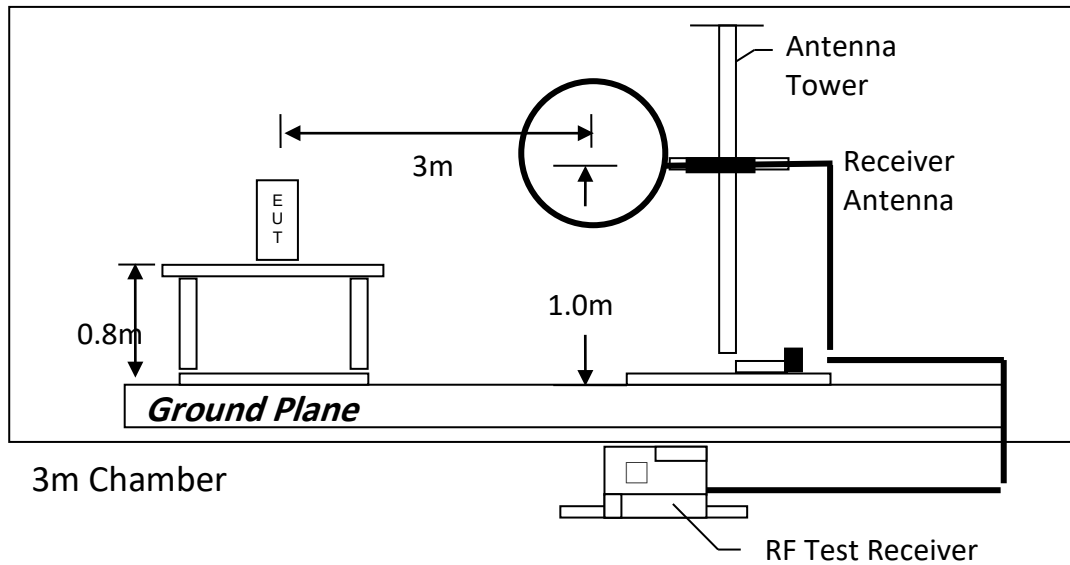
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

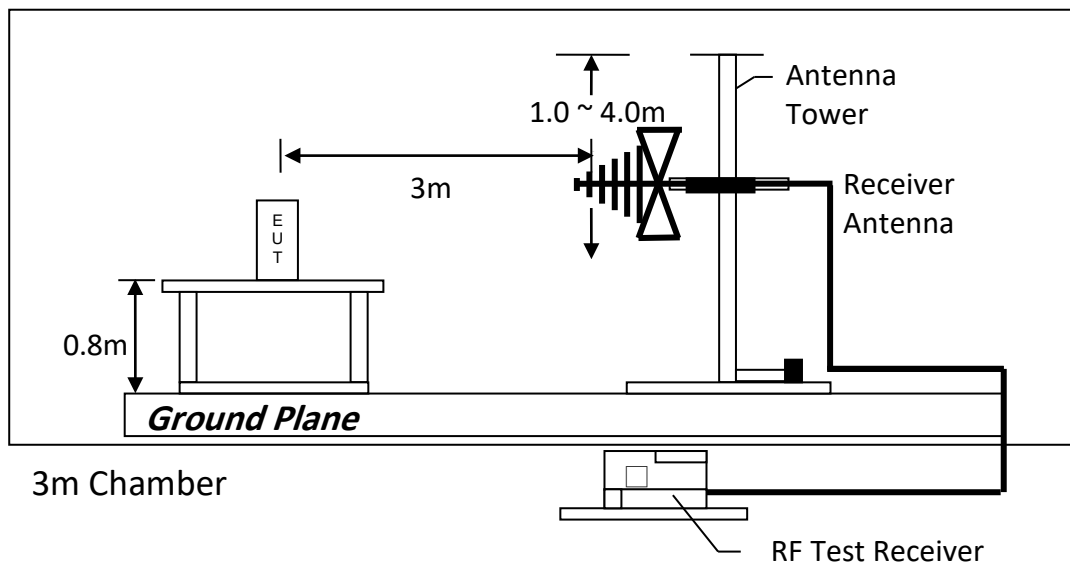
## TEST REPORT

### 8.2.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions up to 30MHz



Test setup of radiated emissions up to 1GHz

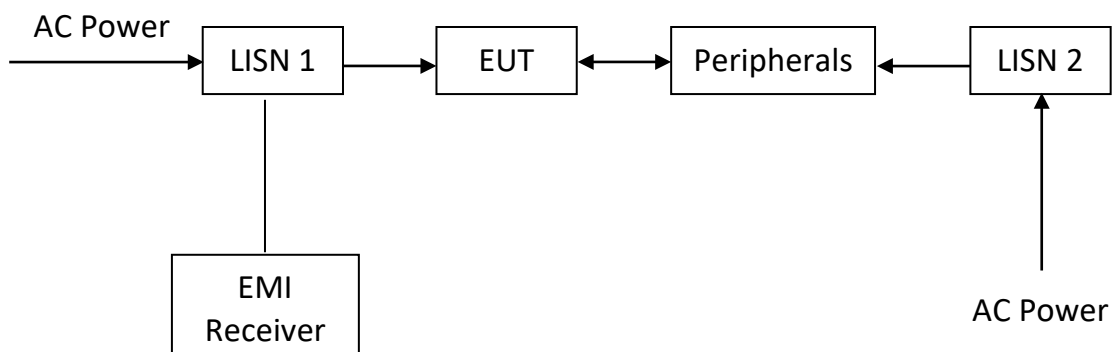
## TEST REPORT

### 8.2.2 Conducted Emission Test Procedures

For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. For floor-standing equipment, the EUT and all cables were insulated, if required, from the ground plane by up to 12 mm of insulating material. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

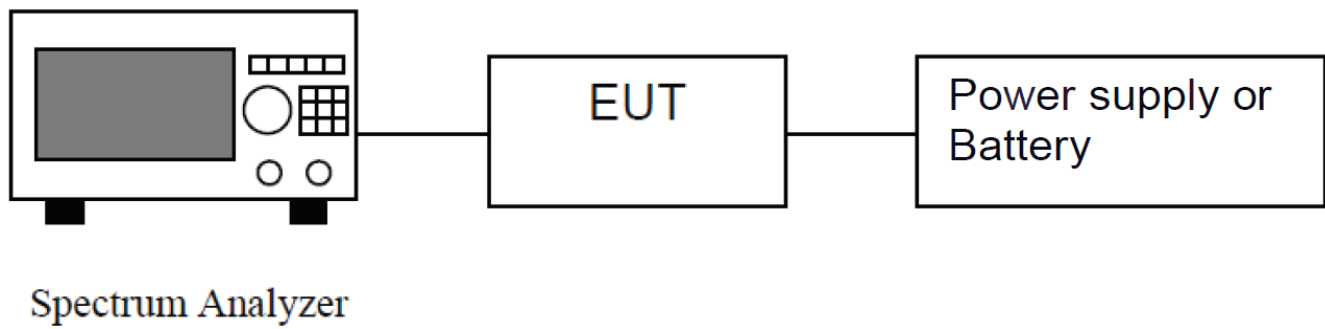
All connecting cables of EUT and peripherals were moved to find the maximum emission.

### 8.2.3 Conducted Emission Test Setup



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8.3 Occupied Bandwidth

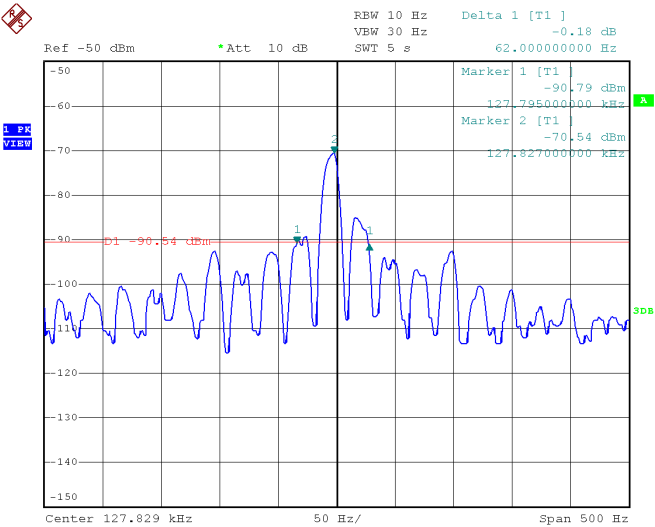


Block diagram of Test setup

Occupied Bandwidth Results: Standby Mode

| Frequency (kHz) | Occupied Bandwidth (Hz) |
|-----------------|-------------------------|
| 127.8           | 62                      |

The worst case is shown as below

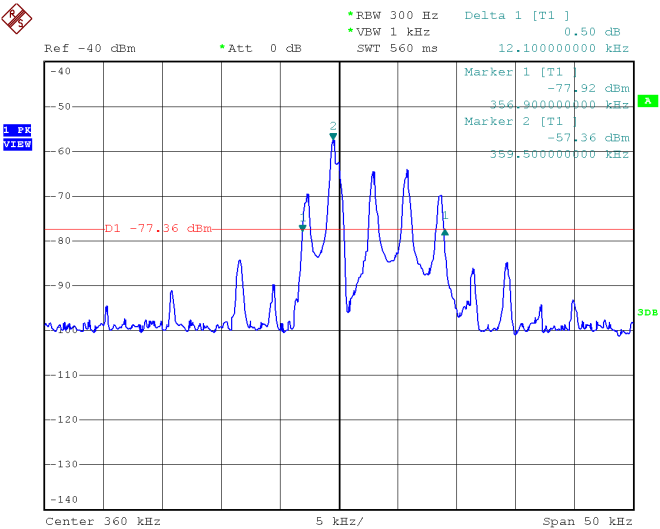


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Occupied Bandwidth Results: Charging with Full Load

| Frequency (kHz) | Occupied Bandwidth (Hz) |
|-----------------|-------------------------|
| 357             | 12100                   |

The worst case is shown as below



## TEST REPORT

### 9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: request.pdf.

### 10.0 EQUIPMENT LIST

#### 1) Radiated Emissions Test

| Equipment            | EMI Test Receiver (9kHz to 26.5GHz) | Biconical Antenna (30MHz to 300MHz) | Log Periodic Antenna |
|----------------------|-------------------------------------|-------------------------------------|----------------------|
| Registration No.     | EW-3156                             | EW-3242                             | EW-3243              |
| Manufacturer         | ROHDESCHWARZ                        | EMCO                                | EMCO                 |
| Model No.            | ESR26                               | 3110C                               | 3148B                |
| Calibration Date     | January 31, 2024                    | July 30, 2024                       | July 30, 2024        |
| Calibration Due Date | January 31, 2025                    | July 30, 2026                       | January 30, 2026     |

| Equipment            | Double Ridged Guide Antenna (1GHz - 18GHz) | Active Loop Antenna (H-field) (9kHz to 30MHz) | RF Preamplifier (9kHz to 6000MHz) |
|----------------------|--|---|-----------------------------------|
| Registration No.     | EW-0194                                    | EW-3326                                       | EW-3006b                          |
| Manufacturer         | EMCO                                       | EMCO  | SCHWARZBECK                       |
| Model No.            | 3115                                       | 6502  | BBV9718                           |
| Calibration Date     | May 10, 2023                               | January 05, 2024                              | October 20, 2023                  |
| Calibration Due Date | November 10, 2024                          | July 05, 2025                                 | October 20, 2024                  |

| Equipment            | 14m Double Shield RF Cable (20MHz - 6GHz) | RF Cable 14m (1GHz to 26.5GHz) | 12 metre RF Cable (1-40)GHz |
|----------------------|---|--------------------------------|-----------------------------|
| Registration No.     | EW-2505                                   | EW-2781                        | EW-2774                     |
| Manufacturer         | RADIALL                                   | GREATBILLION                   | GREATBILLION                |
| Model No.            | nm / br5d / sma 14m                       | SMA m/SHF5MPU /SMA m ra14m,26G | SMA m-m ra 12m 40G outdoor  |
| Calibration Date     | October 05, 2023                          | January 16, 2024               | January 16, 2024            |
| Calibration Due Date | January 05, 2025                          | January 16, 2025               | January 16, 2025            |

| Equipment            | RF Cable 240cm (RG142) - (9kHz to 30MHz) | Pyramidal Horn Antenna |
|----------------------|--|------------------------|
| Registration No.     | EW-2454                                  | EW-0905                |
| Manufacturer         | RADIALL                                  | EMCO                   |
| Model No.            | bnc m st / 142 /bnc m ra 240cm           | 3160-09                |
| Calibration Date     | June 20, 2024                            | December 15, 2023      |
| Calibration Due Date | June 20, 2025                            | June 15, 2025          |



## TEST REPORT

### 2) Conducted Emissions Test

| Equipment            | RF Cable 240cm (RG142)<br>(9kHz to 30MHz) | Artificial Mains<br>Network | EMI Test Receiver<br>(9kHz to 3GHz) |
|----------------------|---|-----------------------------|-------------------------------------|
| Registration No.     | EW-2454                                   | EW-3360                     | EW-3095                             |
| Manufacturer         | RADIALL                                   | ROHDESCHWARZ                | ROHDESCHWARZ                        |
| Model No.            | Bnc m st / 142 / bnc mra<br>240cm         | ENV-216                     | ESCI                                |
| Calibration Date     | June 20, 2024                             | April 07, 2024              | January 18, 2024                    |
| Calibration Due Date | June 20, 2025                             | April 07, 2025              | January 18, 2025                    |

### 3) OBW Measurement

| Equipment            | EMI Test Receiver (9kHz<br>to 3GHz) |
|----------------------|-------------------------------------|
| Registration No.     | EW-3095                             |
| Manufacturer         | ROHDESCHWARZ                        |
| Model No.            | ESCI                                |
| Calibration Date     | January 18, 2024                    |
| Calibration Due Date | January 18, 2025                    |

### 4) Control Software for Radiated Emission

| Software Information |              |
|----------------------|--------------|
| Software Name        | EMC32        |
| Manufacturer         | ROHDESCHWARZ |
| Software version     | 10.50.40     |

**END OF TEST REPORT**