

## TEST REPORT

**Report No.: 25030635HKG-001**

Funrise Toys (HK) Ltd

Application For Certification  
(Original Grant)

**FCC ID: 2AWSR-F82438B**

**IC: 26260-F82438B**

Transceiver – 2.4GHz RC Controller

**Prepared and Checked by:**

**Approved by:**

Signed on File

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Date: May 29, 2025

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## TEST REPORT

### GENERAL INFORMATION

|                                  |                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Grantee:</b>                  | Funrise Toys (HK) Ltd                                                                                                                                               |
| <b>Grantee Address:</b>          | Room 1001, 10/F, Railway Plaza,<br>39 Chatham Road, Tsim Sha Tsui,<br>Kowloon, Hong Kong.                                                                           |
| <b>Manufacturer:</b>             | Funrise Toys (HK) Ltd                                                                                                                                               |
| <b>Manufacturer Address:</b>     | Room 1001, 10/F, Railway Plaza,<br>39 Chatham Road, Tsim Sha Tsui,<br>Kowloon, Hong Kong.                                                                           |
| <b>FCC ID:</b>                   | 2AWSR-F82438B                                                                                                                                                       |
| <b>Model:</b>                    | 82438B                                                                                                                                                              |
| <b>IC:</b>                       | 26260-F82438B                                                                                                                                                       |
| <b>HVIN:</b>                     | 82438B                                                                                                                                                              |
| <b>PMN:</b>                      | 82438B                                                                                                                                                              |
| <b>Type of EUT:</b>              | Transceiver                                                                                                                                                         |
| <b>Description of EUT:</b>       | CAT WORKFORCE POWER CRANE RC                                                                                                                                        |
| <b>Brand Name:</b>               | CAT                                                                                                                                                                 |
| <b>Serial Number:</b>            | Not Labelled                                                                                                                                                        |
| <b>Sample Receipt Date:</b>      | March 17, 2025                                                                                                                                                      |
| <b>Date of Test:</b>             | March 21, 2025 to March 25, 2025                                                                                                                                    |
| <b>Report Date:</b>              | May 29, 2025                                                                                                                                                        |
| <b>Environmental Conditions:</b> | Temperature: +10 to 40°C<br>Relative Humidity: 10 to 90%                                                                                                            |
| <b>Conclusion:</b>               | Test was conducted by client submitted sample.<br>The submitted sample as received complied with the 47 CFR Part 15 /<br>RSS-210 Issue 11, June 2024 Certification. |

## TEST REPORT

### SUMMARY OF TEST RESULT

| Test Items                                 | FCC Part 15 Section | RSS-210 / RSS-Gen <sup>#</sup> | Results        |
|--------------------------------------------|---------------------|--------------------------------|----------------|
| Transmitter Power Line Conducted Emissions | 15.207              | 8.8 <sup>#</sup>               | Not Applicable |
| Radiated Emission                          | 15.249, 15.209      | B.10 / 8.9 <sup>#</sup>        | Complied       |
| Radiated Emission on the Bandedge          |                     |                                | Complied       |
| Radiated Emission in Restricted Bands      | 15.205              | 8.10 <sup>#</sup>              | Complied       |

For all technical data can be referred to Annex B – Report cover sheet.

For electronic filing, the Annex B – Report cover sheet is saved with filename: Annex B.pdf.

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2023 Edition

RSS-210 Issue 11, June 2024

RSS-Gen Issue 5 Amendment 2, February 2021

- 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 20dB 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 expected 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 portable 2.4GHz Transceiver (Controller Unit) for a RC crane. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 2 x 1.5V AA batteries. After switching on the EUT, the motors on the crane will rotate.

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 transceiver.

The Certificate procedure of transceiver for this transceiver (with FCC ID: 2AWSR-F82438A) / (with IC: 26260-F82438A) is being processed as the same time of this application.

#### 1.3 Test Methodology

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 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 and IC No. 2042H, CABID is “HKAP01”.

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### 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 3.0VDC (2 x 1.5V AA Batteries).

For maximizing emissions, 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 reported in Exhibit 3.0.

The unit was operated standalone and placed in the center of the turntable.

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.

#### 2.2 EUT Exercising Software

The EUT exercise program (if any) used during radiated testing was designed to exercise the various system components in a manner similar to a typical use.

#### 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.

#### 2.5 Support Equipment List and Description

Not Applicable

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### 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 | = | 18.0 + 9.0 = 27.0 dB $\mu$ V/m |                      |

Level in  $\mu$ V/m = Common Antilogarithm [(27.0 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 946.893 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: Radiated 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 10.7 dB

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### RADIATED EMISSIONS

Model: 82438B  
Date of Test: March 25, 2025  
Worst-Case Operating Mode: Transmitting

Table 1

Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

#### Lowest Channel

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m - Average (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|------------------------------|------------------------------|-------------|
| V            | 2405.000        | 47.0           | 33                | 29.4                | 43.4                         | 94.0                         | -50.6       |
| V            | 2400.000        | 42.5           | 33                | 29.4                | 38.9                         | 54.0                         | -15.1       |
| V            | 4810.000        | 29.4           | 33                | 34.9                | 31.3                         | 54.0                         | -22.7       |
| H            | 7215.000        | 26.3           | 33                | 37.9                | 31.2                         | 54.0                         | -22.8       |
| V            | 9620.000        | 34.6           | 33                | 40.4                | 42.0                         | 54.0                         | -12.0       |
| H            | 12025.000       | 34.1           | 33                | 40.5                | 41.6                         | 54.0                         | -12.4       |
| H            | 14430.000       | 33.6           | 33                | 40.0                | 40.6                         | 54.0                         | -13.4       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m - Peak (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|---------------------------|---------------------------|-------------|
| V            | 2405.000        | 80.2           | 33                | 29.4                | 76.6                      | 114.0                     | -37.4       |
| V            | 2400.000        | 57.4           | 33                | 29.4                | 53.8                      | 74.0                      | -20.2       |
| V            | 4810.000        | 48.9           | 33                | 34.9                | 50.8                      | 74.0                      | -23.2       |
| H            | 7215.000        | 39.4           | 33                | 37.9                | 44.3                      | 74.0                      | -29.7       |
| V            | 9620.000        | 48.2           | 33                | 40.4                | 55.6                      | 74.0                      | -18.4       |
| H            | 12025.000       | 47.7           | 33                | 40.5                | 55.2                      | 74.0                      | -18.8       |
| H            | 14430.000       | 47.7           | 33                | 40.0                | 54.7                      | 74.0                      | -19.3       |

- Notes:
1. Peak Detector Data unless otherwise stated.
  2. Average detector is applied according to ANSI C63.10.
  3. All measurements were made at 3 meters.
  4. Negative value in the margin column shows emission below limit.
  5. Horn antenna is used for the emission over 1000MHz.
  6. Emissions within the restricted band meet the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
  7. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## TEST REPORT

### RADIATED EMISSIONS

Model: 82438B  
Date of Test: March 25, 2025  
Worst-Case Operating Mode: Transmitting

Table 2

Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

#### Middle Channel

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m - Average (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|------------------------------|------------------------------|-------------|
| V            | 2440.000        | 46.4           | 33                | 29.4                | 42.8                         | 94.0                         | -51.2       |
| V            | 4880.000        | 32.1           | 33                | 34.9                | 34.0                         | 54.0                         | -20.0       |
| H            | 7320.000        | 33.5           | 33                | 37.9                | 38.4                         | 54.0                         | -15.6       |
| V            | 9760.000        | 33.2           | 33                | 40.4                | 40.6                         | 54.0                         | -13.4       |
| H            | 12200.000       | 34.3           | 33                | 40.5                | 41.8                         | 54.0                         | -12.2       |
| H            | 14640.000       | 33.0           | 33                | 38.4                | 38.4                         | 54.0                         | -15.6       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m - Peak (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|---------------------------|---------------------------|-------------|
| V            | 2440.000        | 78.4           | 33                | 29.4                | 74.8                      | 114.0                     | -39.2       |
| V            | 4880.000        | 54.2           | 33                | 34.9                | 56.1                      | 74.0                      | -17.9       |
| H            | 7320.000        | 46.6           | 33                | 37.9                | 51.5                      | 74.0                      | -22.5       |
| V            | 9760.000        | 46.9           | 33                | 40.4                | 54.3                      | 74.0                      | -19.7       |
| H            | 12200.000       | 47.9           | 33                | 40.5                | 55.4                      | 74.0                      | -18.6       |
| H            | 14640.000       | 46.9           | 33                | 38.4                | 52.3                      | 74.0                      | -21.7       |

- Notes:
1. Peak Detector Data unless otherwise stated.
  2. Average detector is applied according to ANSI C63.10.
  3. All measurements were made at 3 meters.
  4. Negative value in the margin column shows emission below limit.
  5. Horn antenna is used for the emission over 1000MHz.
  6. Emissions within the restricted band meet the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
  7. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## TEST REPORT

### RADIATED EMISSIONS

Model: 82438B  
Date of Test: March 25, 2025  
Worst-Case Operating Mode: Transmitting

Table 3

Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

#### Highest Channel

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m - Average (dBμV/m) | Average Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|------------------------------|------------------------------|-------------|
| H            | 2475.000        | 47.3           | 33                | 29.4                | 43.7                         | 94.0                         | -50.3       |
| H            | 2483.500        | 43.3           | 33                | 29.4                | 39.7                         | 54.0                         | -14.3       |
| H            | 4950.000        | 30.1           | 33                | 34.9                | 32.0                         | 54.0                         | -22.0       |
| H            | 7425.000        | 26.7           | 33                | 37.9                | 31.6                         | 54.0                         | -22.4       |
| H            | 9900.000        | 34.7           | 33                | 40.4                | 42.1                         | 54.0                         | -11.9       |
| H            | 12375.000       | 35.1           | 33                | 40.5                | 42.6                         | 54.0                         | -11.4       |
| V            | 14850.000       | 34.3           | 33                | 38.4                | 39.7                         | 54.0                         | -14.3       |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m - Peak (dBμV/m) | Peak Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|-------------------|---------------------|---------------------------|---------------------------|-------------|
| H            | 2475.000        | 80.4           | 33                | 29.4                | 76.8                      | 114.0                     | -37.2       |
| H            | 2483.500        | 57.2           | 33                | 29.4                | 53.6                      | 74.0                      | -20.4       |
| H            | 4950.000        | 47.7           | 33                | 34.9                | 49.6                      | 74.0                      | -24.4       |
| H            | 7425.000        | 40.0           | 33                | 37.9                | 44.9                      | 74.0                      | -29.1       |
| H            | 9900.000        | 48.3           | 33                | 40.4                | 55.7                      | 74.0                      | -18.3       |
| H            | 12375.000       | 48.5           | 33                | 40.5                | 56.0                      | 74.0                      | -18.0       |
| V            | 14850.000       | 48.1           | 33                | 38.4                | 53.5                      | 74.0                      | -20.5       |

- Notes:
1. Peak Detector Data unless otherwise stated.
  2. Average detector is applied according to ANSI C63.10.
  3. All measurements were made at 3 meters.
  4. Negative value in the margin column shows emission below limit.
  5. Horn antenna is used for the emission over 1000MHz.
  6. Emissions within the restricted band meet the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
  7. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## TEST REPORT

### RADIATED EMISSIONS

Model: 82438B  
Date of Test: March 21, 2025  
Worst-Case Operating Mode: Transmitting

Table 4

Pursuant to FCC Part 15 Section 15.209 / RSS-GEN 8.9 Requirement

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-amp (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|--------------|---------------------|--------------------|----------------------|-------------|
| V            | 31.698          | 27.9           | 16           | 10.0                | 21.9               | 40.0                 | -18.1       |
| H            | 110.874         | 25.3           | 16           | 14.0                | 23.3               | 43.5                 | -20.2       |
| V            | 117.421         | 25.5           | 16           | 14.0                | 23.5               | 43.5                 | -20.0       |
| V            | 495.479         | 17.7           | 16           | 26.0                | 27.7               | 46.0                 | -18.3       |
| V            | 658.924         | 19.7           | 16           | 29.0                | 32.7               | 46.0                 | -13.3       |
| H            | 946.893         | 18.3           | 16           | 33.0                | 35.3               | 46.0                 | -10.7       |

- 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. Horn antenna is used for the emission over 1000MHz.
  5. Emissions within the restricted band meet the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
  6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## **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 and IC 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 and Canada.

## TEST REPORT

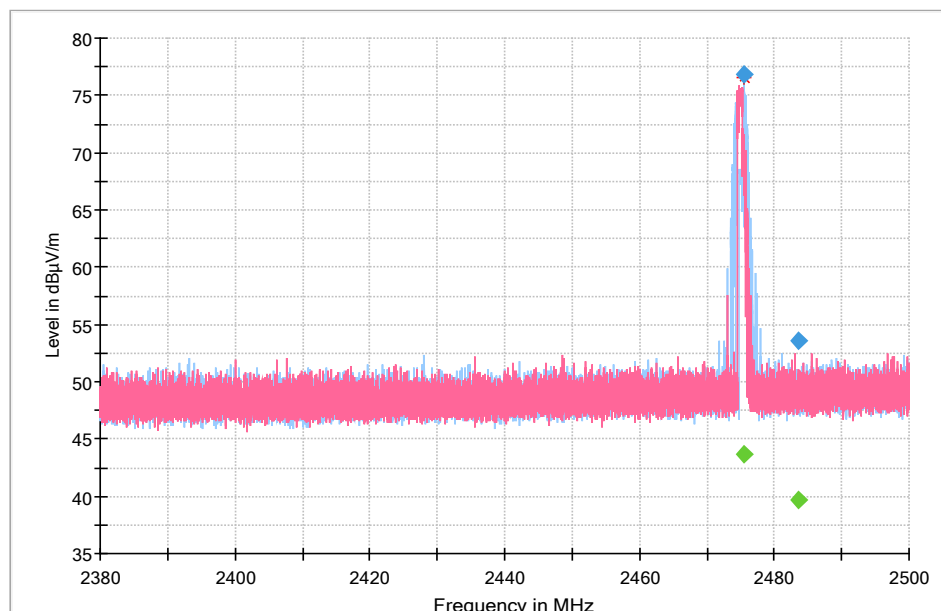
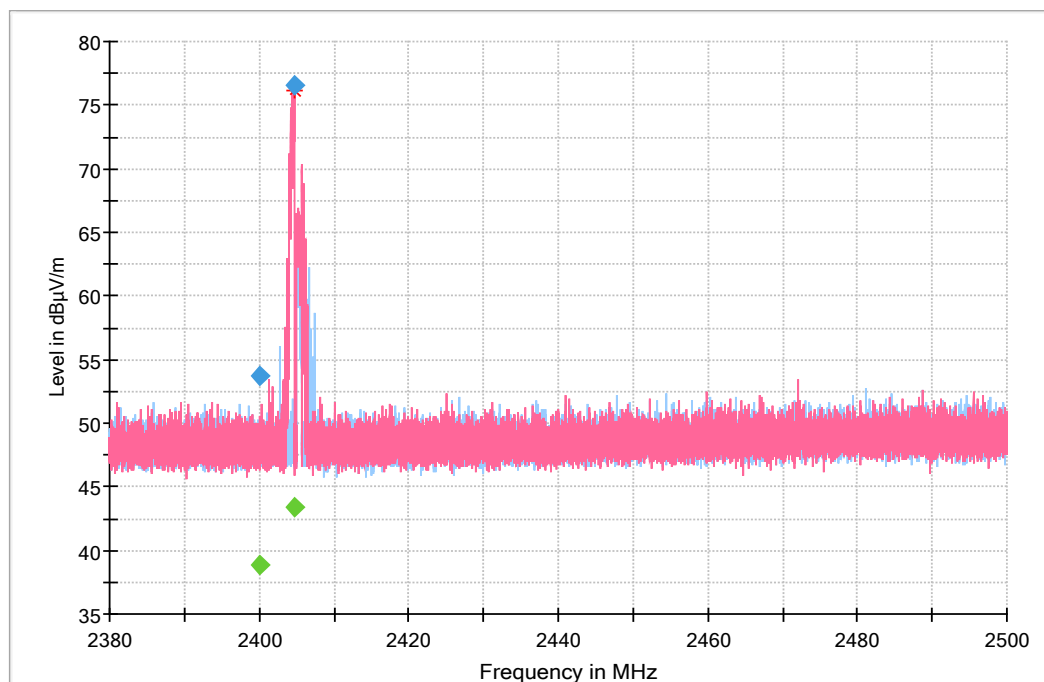
### 8.0 MISCELLANEOUS INFORMATION

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

#### 8.1 Radiated Emission on the Bandedge

The emission of bandedge data were shown on the above radiated data table of 1 & 3 respectively.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209 / RSS-Gen 8.9, whichever is the lesser attenuation, which meet the requirement of Part 15.249(d) / RSS-210 B.10.



## TEST REPORT

### 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 / IC 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.

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).

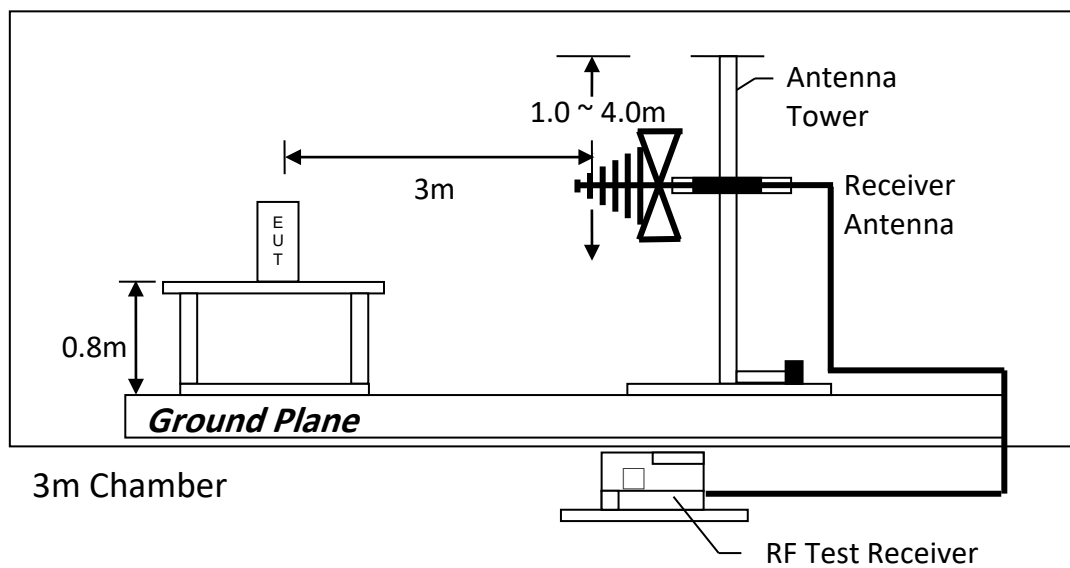
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion 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 3 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.

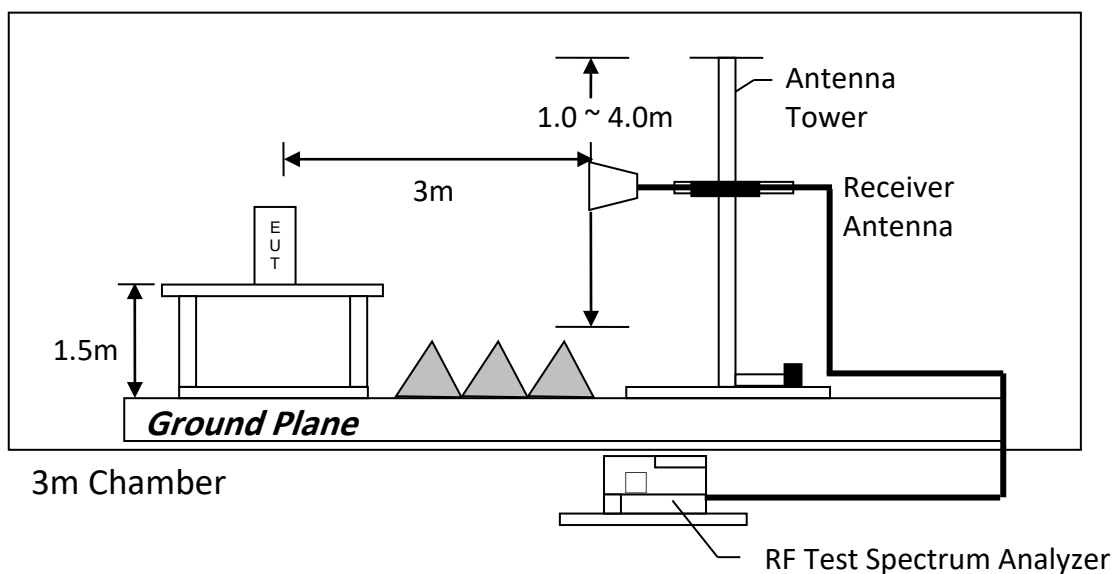
## TEST REPORT

### 8.2.1 Radiated Emission Test Setup

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



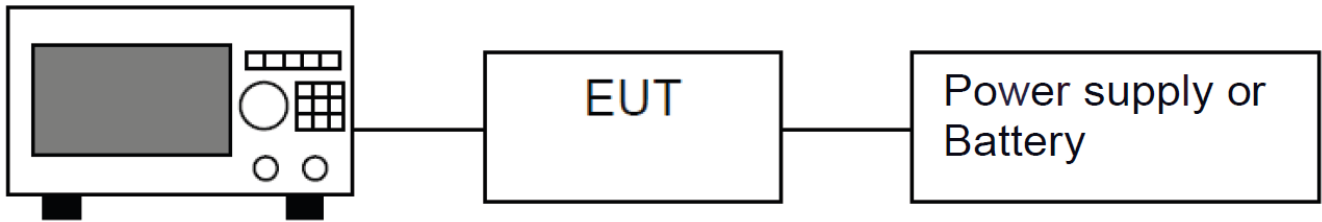
Test setup of radiated emissions up to 1GHz



Test setup of radiated emissions above 1GHz

## TEST REPORT

### 8.3 Occupied Bandwidth



Spectrum Analyzer

Block diagram of Test setup

Occupied Bandwidth Results:

|                      | Occupied Bandwidth (kHz) |
|----------------------|--------------------------|
| Low Channel: 2405    | 1152                     |
| Middle Channel: 2440 | 1136                     |
| High Channel: 2475   | 1160                     |

The worst case is shown as below:



## TEST REPORT

### 9.0 EQUIPMENT LIST

#### 1) Radiated Emissions Test & Bandedge Measurement

| Equipment            | EMI Test Receiver<br>(9kHz to 26.5GHz) | Biconical Antenna<br>(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 | July 30, 2025                          | July 30, 2026                          | July 30, 2026        |

| Equipment            | Double Ridged Guide<br>Antenna (1GHz - 18GHz) | Active Loop Antenna<br>(H-field) (9kHz to 30MHz) | RF Preamplifier<br>(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                                 | December 06, 2024                    |
| Calibration Due Date | August 10, 2025                               | July 05, 2025                                    | December 06, 2025                    |

| Equipment            | 2.4GHz Notch Filter | 14m Double Shield RF<br>Cable (9kHz - 6GHz) | RF Cable 14m<br>(1GHz to 26.5GHz) |
|----------------------|---------------------|---------------------------------------------|-----------------------------------|
| Registration No.     | EW-3435             | EW-2376                                     | EW-2781                           |
| Manufacturer         | MICROWAVE           | RADIALL                                     | GREATBILLION                      |
| Model No.            | N0324413            | n m/br56/bnc m 14m                          | SMA m/SHF5MPU /SMA<br>m ra14m,26G |
| Calibration Date     | October 09, 2024    | October 09, 2024                            | January 16, 2024                  |
| Calibration Due Date | October 09, 2025    | October 09, 2025                            | July 16, 2025                     |

| Equipment            | 12 metre RF Cable<br>(1-40)GHz | Pyramidal Horn Antenna |
|----------------------|--------------------------------|------------------------|
| Registration No.     | EW-2774                        | EW-0905                |
| Manufacturer         | GREATBILLION                   | EMCO                   |
| Model No.            | SMA m-m ra 12m 40G<br>outdoor  | 3160-09                |
| Calibration Date     | January 16, 2024               | December 15, 2023      |
| Calibration Due Date | July 14, 2025                  | June 15, 2025          |

## TEST REPORT

### 2) OBW Measurement

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

### 3) Control Software for Radiated Emission

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

**END OF TEST REPORT**