

## Report No.: 24030952HKG-001

Funrise Toys (HK) Ltd.

Application For Certification (Original Grant)

### FCC ID: 2AWSR-F71136B

Transceiver – 2.4GHz RC Controller

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## **GENERAL INFORMATION**

Grantee: Funrise Toys (HK) Ltd. **Grantee Address:** Room 1001, 10/F., Railway Plaza, 39 Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong. Manufacturer: Funrise Toys (HK) Ltd. Manufacturer Address: Room 1001, 10/F., Railway Plaza, 39 Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong. FCC ID: 2AWSR-F71136B Model: 71136 Transceiver Type of EUT: **Description of EUT:** TMNT LEO'S ROLL OVER RC TMNT Brand Name: Serial Number: Not Labelled Sample Receipt Date: March 21, 2024 Date of Test: March 25, 2024 to April 05, 2024 **Report Date:** April 11, 2024 **Environmental Conditions:** Temperature: +10 to 40°C Relative Humidity: 10 to 90% **Conclusion:** Test was conducted by client submitted sample. The submitted sample as received complied with the 47 CFR Part 15 Certification.



## SUMMARY OF TEST RESULT

Test Items	FCC Part 15 Section	Results
Transmitter Power Line Conducted Emissions	15.207	Not Applicable
Radiated Emission	15.249 <i>,</i> 15.209	Complied
Radiated Emission on the Bandedge		Complied
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.
  - 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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## **1.0 GENERAL DESCRIPTION**

### 1.1 Product Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Car. The sample supplied operated on 35 channels, normally at 2423 - 2462MHz. The channels are shown in below table.

2423	2424	2425	2426	2427
2428	2429	2430	2434	2435
2436	2437	2438	2439	2440
2441	2442	2443	2444	2445
2446	2449	2450	2451	2452
2453	2454	2455	2456	2457
2458	2459	2460	2461	2462

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the car will be moved forward or backward and turned left and right based on the switches pressed in the controller.

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-F71136A) 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.



## 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 AAA 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



## 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 dBμV/m
 RA = Receiver Amplitude (including preamplifier) in dBμV
 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:

 $\begin{array}{rcl} FS = RR + LF \\ where & FS & = & Field \ Strength \ in \ dB\mu V/m \\ RR & = & RA - AG - AV \ in \ dB\mu V \\ LF & = & CF + AF \ in \ dB \end{array}$ 

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 dBµV/m			
AF	=	7.4 dB	RR	=	18.0 dBµV
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 dBμV/m			

Level in  $\mu$ V/m = Common Antilogarithm [(27.0 dB $\mu$ V/m)/20] = 22.4  $\mu$ V/m



3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 956.5925 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 12.0 dB



## RADIATED EMISSIONS

Model:	71136
Date of Test:	March 25, 2024
Worst-Case Operating Mode:	Transmitting

#### Table 1

#### Pursuant to FCC Part 15 Section 15.249 Requirement

### Lowest Channel

			Pre-Amp	Antenna	Net at	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Average	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2423.000	78.2	33	29.4	74.6	94.0	-19.4
Н	2400.000	43.0	33	29.4	39.4	54.0	-14.6
Н	4846.000	28.1	33	34.9	30.0	54.0	-24.0
V	7269.000	27.8	33	37.9	32.7	54.0	-21.3
Н	9692.000	27.8	33	40.4	35.2	54.0	-18.8
Н	12115.000	29.8	33	40.5	37.3	54.0	-16.7
Н	14538.000	35.5	33	38.4	40.9	54.0	-13.1

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2423.000	99.5	33	29.4	95.9	114.0	-18.1
Н	2400.000	59.8	33	29.4	56.2	74.0	-17.8
Н	4846.000	43.9	33	34.9	45.8	74.0	-28.2
V	7269.000	41.4	33	37.9	46.3	74.0	-27.7
Н	9692.000	41.1	33	40.4	48.5	74.0	-25.5
Н	12115.000	43.1	33	40.5	50.6	74.0	-23.4
Н	14538.000	48.6	33	38.4	54.0	74.0	-20.0

- 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.
- 7. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.
- 8. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
- 9. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.



## RADIATED EMISSIONS

Model:	71136
Date of Test:	March 25, 2024
Worst-Case Operating Mode:	Transmitting

#### Table 2

#### Pursuant to FCC Part 15 Section 15.249 Requirement

### Middle Channel

			Pre-Amp	Antenna	Net at	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Average	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2442.000	78.9	33	29.4	75.3	94.0	-18.7
Н	4884.000	28.5	33	34.9	30.4	54.0	-23.6
V	7326.000	28.1	33	37.9	33.0	54.0	-21.0
V	9768.000	28.1	33	40.4	35.5	54.0	-18.5
V	12210.000	29.7	33	40.5	37.2	54.0	-16.8
Н	14652.000	34.7	33	38.4	40.1	54.0	-13.9

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2442.000	99.9	33	29.4	96.3	114.0	-17.7
Н	4884.000	44.8	33	34.9	46.7	74.0	-27.3
V	7326.000	42.1	33	37.9	47.0	74.0	-27.0
V	9768.000	41.9	33	40.4	49.3	74.0	-24.7
V	12210.000	43.2	33	40.5	50.7	74.0	-23.3
Н	14652.000	48.0	33	38.4	53.4	74.0	-20.6

- 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.
- 7. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.
- 8. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
- 9. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.



## RADIATED EMISSIONS

Model:	71136
Date of Test:	March 25, 2024
Worst-Case Operating Mode:	Transmitting

#### Table 3

#### Pursuant to FCC Part 15 Section 15.249 Requirement

### Highest Channel

			Pre-Amp	Antenna	Net at	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Average	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2462.000	80.3	33	29.4	76.7	94.0	-17.3
Н	2483.500	43.7	33	29.4	40.1	54.0	-13.9
Н	4924.000	31.0	33	34.9	32.9	54.0	-21.1
Н	7386.000	28.7	33	37.9	33.6	54.0	-20.4
V	9848.000	27.8	33	40.4	35.2	54.0	-18.8
Н	12310.000	30.0	33	40.5	37.5	54.0	-16.5
Н	14772.000	34.6	33	38.4	40.0	54.0	-14.0

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2462.000	101.3	33	29.4	97.7	114.0	-16.3
Н	2483.500	63.1	33	29.4	59.5	74.0	-14.5
Н	4924.000	47.4	33	34.9	49.3	74.0	-24.7
Н	7386.000	43.8	33	37.9	48.7	74.0	-25.3
V	9848.000	41.2	33	40.4	48.6	74.0	-25.4
Н	12310.000	43.8	33	40.5	51.3	74.0	-22.7
Н	14772.000	48.3	33	38.4	53.7	74.0	-20.3

- 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.
- 7. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.
- 8. For the measurement of radiated emission, summation method was used which numerical integrating (in terms of linear power) over the transmitter occupied bandwidth.
- 9. For the linear power measurement, data in 1MHz spacing was collected by spectrum analyzer with 1MHz resolution bandwidth.



## **RADIATED EMISSIONS**

Model:	71136
Date of Test:	April 03, 2024
Worst-Case Operating Mode:	Transmitting

Table 4

			Pre-	Antenna	Net	Limit	
	Frequency	Reading	amp	Factor	at 3m	at 3m	Margin
Polarization	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
V	30.121	24.1	16	10.0	18.1	40.0	-21.9
V	121.180	17.8	16	14.0	15.8	43.5	-27.7
Н	341.734	12.5	16	24.0	20.5	46.0	-25.5
Н	495.721	15.3	16	26.0	25.3	46.0	-20.7
V	684.508	18.3	16	29.0	31.3	46.0	-14.7
Н	956.593	17.0	16	33.0	34.0	46.0	-12.0

#### Pursuant to FCC Part 15 Section 15.209 Requirement

- 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.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



## 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.



Funrise Toys (HK) Ltd. Intertek Report No: 24030952HKG-001

# **TEST REPORT**

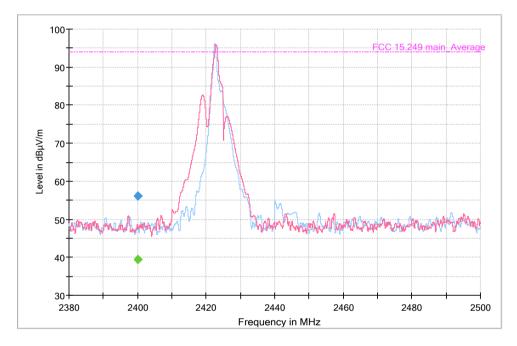
## 8.0 MISCELLANEOUS INFORMATION

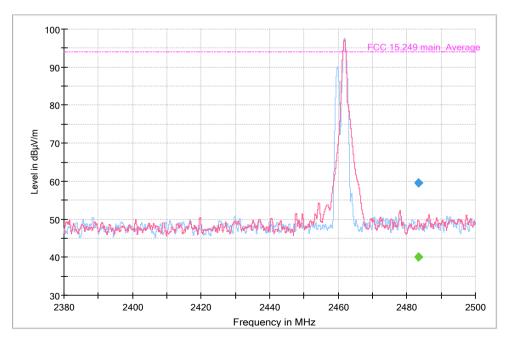
The miscellaneous information includes details of the test procedure and measured bandwidth.

### 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, whichever is the lesser attenuation, which meet the requirement of Part 15.249(d).







### 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.

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).

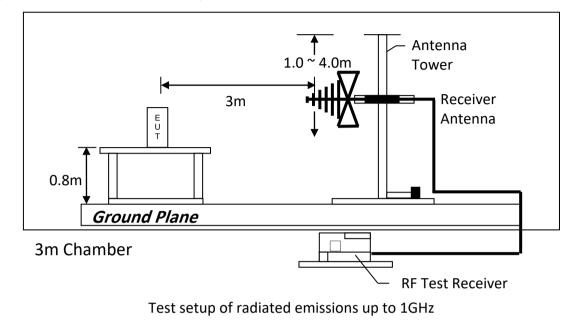
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion 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 10 MHz is used.

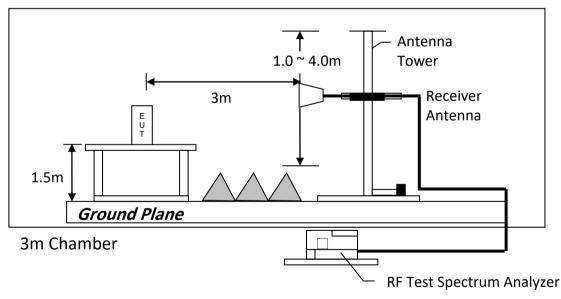
Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling,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



8.2.1 Radiated Emission Test Setup

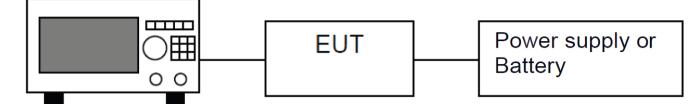
The figure below shows the test setup, which is utilized to make these measurements.





Test setup of radiated emissions above 1GHz





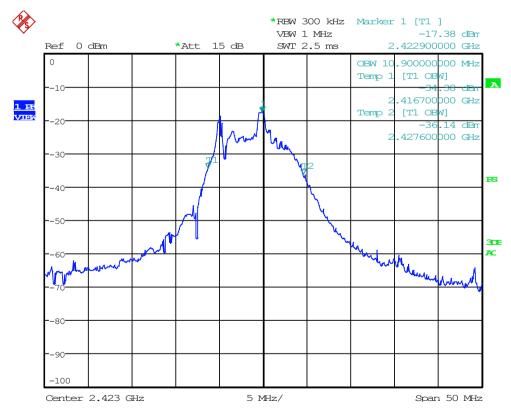
Spectrum Analyzer

### Block diagram of Test setup

Occupied Bandwidth Results:

	Occupied Bandwidth (kHz)
Low Channel: 2423	10900
Middle Channel: 2442	9000
High Channel: 2462	4880

#### The worst case is shown as below:





## 9.0 EQUIPMENT LIST

1) Radiated Emissions Test & Bandedge Measurement

Equipment	EMI Test Receiver (9kHz to 26.5GHz)	Biconical Antenna (30MHz to 300MHz)	Log Periodic Antenna
Registration No.	EW-3156	EW-3241	EW-3244
Manufacturer	ROHDESCHWARZ	EMCO	EMCO
Model No.	ESR26	3110C	3148B
Calibration Date	January 31, 2024	February 26, 2022	August 30, 2022
Calibration Due Date	January 31, 2025	May 26, 2024	May 30, 2024

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	2.4GHz Notch Filter	14m Double Shield RF Cable (9kHz - 6GHz)	RF Cable 14m (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
			m ra14m,26G
Calibration Date	September 26, 2023	September 19, 2023	January 16, 2024
Calibration Due Date	September 26, 2024	September 19, 2024	January 16, 2025

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



Funrise Toys (HK) Ltd. Intertek Report No: 24030952HKG-001

# **TEST REPORT**

## 2) OBW Measurement

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

3) Control Software for Radiated Emission

Software Information	
Software Name	EMC32
Manufacturer	ROHDESCHWARZ
Software version	10.50.40

**END OF TEST REPORT**