



# RF EXPOSURE REPORT

Applicant	JAKKS PACIFIC (H.K.) LIMITED
Address	12/F., WHARF T&T CENTRE, 7 CANTON ROAD TSIMSHATSUI HONG KONG

Manufacturer or Supplier	JAKKS PACIFIC (H.K.) LIMITED
Address	12/F., WHARF T&T CENTRE, 7 CANTON ROAD TSIMSHATSUI HONG KONG
Product	MARIO ANTI-GRAVITY RC RACER
Brand Name	N/A
Model:	86905RXNT
Additional Model & Model Difference	N/A
Date of tests:	Jun. 12, 2025 ~ Jun. 22, 2025

**FCC Part 2 (Section 2.1093)**

**KDB 447498 D01 V06**

**IEEE C95.1**

## CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department

Date: Jul. 01, 2025

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2506WDG0046-2	Original release	Jul. 01, 2025

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## 1. CERTIFICATION

<b>FCC ID:</b>	OTA86905RXNT
<b>PRODUCT:</b>	MARIO ANTI-GRAVITY RC RACER
<b>MODEL NO.:</b>	86905RXNT
<b>ADDITIONAL NO.:</b>	N/A
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1093)
	KDB 447498 D01 V06
	IEEE C95.1



## 2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, 16 where
  - $f(\text{GHz})$  is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison
- The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot (f(\text{MHz})/150)$ ] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot 10$ ] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

## 3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device**.



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## 4. SAR TEST EXCLUSION THRESHOLDS

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	1.9	Wire Antenna

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
TX	2405-2475	-34	+2	-36	-32

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBuV/m)	Averaged Power (dBm)
TX	2435	62.52	-34.61

Note:

$$E = \frac{\sqrt{30 \cdot PG}}{d}$$

E = Electric field strength in v/m

V/m =  $10^{(\text{dBuV/m} - 120)/20}$

P = Power in Watts

G = Antenna gain in dBi

d = Measurement distance in metres

Power  $\approx 0.000346$  (mW)

$\text{dBm} = 10 \cdot \log_{10}(0.000346) \approx -34.61$  (dBm)

### SAR Test Exclusion Thresholds

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2405-2475	-32	5	0.000312	3.0	7.5	Exempt from SAR

### Conclusion

Therefore, this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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