



# **RF EXPOSURE REPORT**

Applicant	Shantou Chenghai Huabo Smart Living Technology Co., Ltd				
Address	Next to Chengjiang Road, Dutou Village, Shanghua County, Chenghai District, Shantou City, Guangdong, China				
Manufacturer or Supplier	Shantou Chenghai Huabo Smart Living Technology Co., Ltd				
Address	Next to Chengjiang Road, Dutou Village, Shanghua County, Chenghai District, Shantou City, Guangdong, China				
Product	Toy RC Flip Stunt Rally				
Brand Name	Sharper Image				
Model	1013840				
Additional Model & Model Difference	HB2023B, 1014813, etc.; see item 1				
Date of tests	Mar. 01, 2023 ~ Mar. 10, 2023				
CONCLUSION: The	submitted sample was found to	COMPLY with the test requirement			
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Tested by Andy Zhu Supervisor / EMC Department		Approved by Glyn He Assistant Manager / EMC Department			
Andy		Au			
http://www.bureauveritas.com of this report to or for any oth findings solely with respect t characteristics of the lot from of the tests requested by you request for accredited tests. t otherwise requested in writing or if you require measuremen	/home/about-us/our-business/cps/about-us/terms-c er person or entity, or use of our name or trademar to the test samples identified herein. The results which a test sample was taken or any similar or id u and the results thereof based upon the informati Statements of conformity are based on simple acc g. You have 60 days from date of issuance of this it uncertainty; provided, however, that such notice hin the prescribed time shall constitute your unqua-	Date: May 04, 2023 tions of Testing as posted at the date of issuance of this report at conditions/ and is intended for your exclusive use. Any copying or replication k, is permitted only with our prior written permission. This report sets forth our set forth in this report are not indicative or representative of the quality or entical product unless specifically and expressly noted. Our report includes all on that you provided to us. Measurement uncertainty is only provided upon eptance criteria without taking measurement uncertainty into account, unless report to notify us of any material error or omission caused by our negligence shall be in writing and shall specifically address the issue you wish to raise. A lifted acceptance of the completeness of this report, the tests conducted and			

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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FM2302WDG0010	Original release	May 04, 2023	

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### 1. CERTIFICATION

FCC ID:	2A4XIHB2023B24GT
PRODUCT:	Toy RC Flip Stunt Rally
BRAND NAME:	Sharper Image
MODEL NO.:	1013840
ADDITIONAL NO.:	HB2023B, 1014813, 1012326, 101XXX (where XXX can be digits 0000-9999 which represent different customers)
APPLICANT:	Shantou Chenghai Huabo Smart Living Technology Co., Ltd
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01
	IEEE C95.1

Note:Additional models (see above table) are identical with the test model 1013840 except the color of the appearance and model number for trading purpose.



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### 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)]  $\cdot \left[\sqrt{f(GHz)}\right] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR,16 where

- > f(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)·( f(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 ≤ 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  $[1 + \log(100/f(MHz))]$  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 ½ for test separation distances ≤ 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**.



## 4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
ТХ	2410-2473	-34	+-2	-36	-32

#### The measured conducted Average Power

Mode	Frequency	Averaged Power	Averaged Power	
	(MHz)	(dBuV/m)	(dBm)	
ТХ	2473	61.66	-33.57	

Note:

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

E =Electric field streng in v/m

 $V/m = 10^{(dBuv/m - 120)/20}$ 

P = Power in Watts

G =Antenna gain in dBi

d =Measurement distance in metres

Power ≈ 0.00044 (mW)

dBm=10\*log<sub>10</sub><sup>(0.00044)</sup> ≈ -33.57 (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
2410-2473	-32	5	0.000198	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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