



# **RF EXPOSURE REPORT**

Applicant	GUANGDONG HENGDI TECHNOLOGY CORP., LTD.				
Address	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Chenghai District, Shantou City.				
Manufacturer or Supplier	GUANGDONG HENGDI TECHNOLOGY CORP., LTD.				
Address	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Chenghai District, Shantou City.				
Product	Toy RC Midnight Explorer				
Brand Name	Sharper Image	Sharper Image			
Model	1018814				
Additional Model & Model Difference	101XXXX (where xxxx can be 0000-9999 which represent different customers), see item 1				
Date of tests	Jan. 19, 2025 ~ Feb. 08, 2025				
<ul> <li>☑ KDB 447498 D0</li> <li>☑ IEEE C95.1</li> <li>CONCLUSION: The</li> </ul>		COMPLY with the test requirement			
	ared by Andrew Sha gineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department			
	Andrew	Aut			
http://www.bureauveritas.com of this report to or for any oth findings solely with respect to characteristics of the lot from of the tests requested by you request for accredited tests. otherwise requested in writing or if you require measuremer	Thome/about-us/our-business/cps/about-us/terms- er person or entity, or use of our name or trademain to the test samples identified herein. The results which a test sample was taken or any similar or id a and the results thereof based upon the informat 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: Feb. 13, 2025 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 rk, 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 ion that you provided to us. Measurement uncertainty is only provided upon exptance 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 alified acceptance of the completeness of this report, the tests conducted and			

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.



Test Report No.: FM2501WDG0123-2

## TABLE OF CONTENTS

RELE	ASE CONTROL RECORD	3
1.	CERTIFICATION	4
2.	RF EXPOSURE DEFINE	.5
3.	CLASSIFICATION	.5
4.	SAR TEST EXCLUSION THRESHOLDS	.6



Test Report No.: FM2501WDG0123-2

## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	
FM2501WDG0123-2	Original release	Feb. 13, 2025

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.



### 1. CERTIFICATION

FCC ID:	2AWZKHD25A24G			
PRODUCT:	Toy RC Midnight Explorer			
BRAND NAME:	Sharper Image			
MODEL NO.:	1018814			
ADDITIONAL NO.:	101XXXX (where xxxx can be 0000-9999 which represent different customers)			
APPLICANT:	GUANGDONG HENGDI TECHNOLOGY CORP., LTD.			
STANDARDS:	FCC Part 2 (Section 2.1093)			
	KDB 447498 D01 V06			
	IEEE C95.1			

NOTE: Additional models (see above table) are identical with the test model 1018814 except the color of the appearance and model number for trading purpose.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.



Test Report No.: FM2501WDG0123-2

### 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, mW)] [(W(U))] < 2.0 for 1 a CAD and < 7.5 for 10 a outcomity CAD 10 where

- mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  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  $\leq$  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(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	2405-2475	-23	+-2	-25	-21

#### The measured conducted Average Power

Mode	Mode Frequency (MHz)		Averaged Power (dBm)	
TX	2475	71.96	-23.27	

Note:

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

E =Electric field streng in v/m

V/m=10<sup>(dBuv/m -120)/20</sup>

P = Power in Watts

G =Antenna gain in dBi

d =Measurement distance in metres

Power ≈ 0.004711 (mW)

 $dBm = 10^* \log_{10}^{(0.004711)} \approx -23.27(dBm)$ 

#### 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	-21	5	0.002499	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.

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.