

TEST REPORT		
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Date of receipt of test item....:	2026-07-09	
Date (s) of performance of test	2026-07-10 to 2026-08-04	
Date of issue	2026-08-20	
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Manufacturer's name	SHANTOU HONGZE TECHNOLOGY CO.,LTD	
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Factory's name	SHANTOU HONGZE TECHNOLOGY CO.,LTD	
Address	West Middle Road, Lianhuaxin Industrial Zone, Batou, Fengxiang Subdistrict, Chenghai District, Shantou, Guangdong Province, P.R.China	
Standard(s)	§1.1310, §2.1093	
Test item description	Toy dinosaur	
Trade Mark	N/A	
Model/Type reference	5229, MF229	
FCC ID	2BW9A5229	
Summary of Test Results	Pass	
Prepared by (+signature).....:	Dora Ning	
Approved by (+signature):	Eric Liu	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
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Modified History

Report No.	Revision Date	Summary
EP2607077F04	2026-08-20	Original Version

1. EUT Specification

Characteristics	Description
Product:	Toy dinosaur
Model Number:	5229, MF229
Model different:	All models are identical to each other except for the appearance of the dinosaurs on the receiving end. There is no difference for remote control. All tests are performed on model 5229.
Modulation:	GFSK
Operating Frequency Range(s) :	2405-2475MHz
Number of Channels:	71 channels
Transmit Power Max:	98.88dBuV/m@3m
Antenna Gain:	0 dBi
Power supply:	For remote control: 2 × 1.5V"AA" Battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

2. Test Requirement:

RF EXPOSURE EVALUATION

According to §1.1310 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

3. Measurement Result

Transmit Frequency (MHz)	Mode	Field strength (dBuV/m)	Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2405	GFSK	98.02	2.86	±1	3.86	0.754797	3
2440	GFSK	92.88	-2.28	±1	-1.28	0.232792	3
2475	GFSK	98.88	3.72	±1	4.72	0.933383	3

$$\text{Power} = E_{\text{Meas}} + 20 \log(d_{\text{Meas}}) - 104.7$$

Where

Power is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m

d_{Meas} is the measurement distance, in m. $d_{\text{Meas}} = 3\text{m}$

The two modes cannot work at the same time.

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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