

TEST REPORT

Product Name Model Number		 R/C TOYS X22, DRC29211-BLK, DRC19211-BLU 			
FCC ID		: 2AEXV-X22			
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Report Number Date(s) of Tests Date of issue	: :	EDG2409190217E00402R September 19, 2024 to September 30, 2024 September 30, 2024			

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TEST RESULT CERTIFICATION

Applicant	:	GUANGDONG SONGYANG PLASTIC TOYS CO., LTD.
Manufacturer	:	GUANGDONG SONGYANG PLASTIC TOYS CO., LTD.
EUT	:	R/C TOYS
Model Name	:	X22, DRC29211-BLK, DRC19211-BLU
Trademark	:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
§ 2.1093	PASS			

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test :

September 19, 2024 to September 30, 2024

Prepared by :

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Modified History

Version	Report No.	Revision Date	Summary
	EDG2409190217E00402R	/	Original Report





1. EUT Specification

Characteristics	Description		
Product:	R/C TOYS		
Model Number:	X22, DRC29211-BLK, DRC19211-BLU (Note: The models are all the same except the model name and color. X22 was selected here to do all the tests.)		
Sample: 2#			
Modulation: GFSK			
Operating Frequency Range(s) :	2410MHz-2470MHz		
Number of Channels:	61 Channels		
Transmit Power Max:	74.83 dBuV@3m		
Antenna Gain:	0.17 dBi		
Power supply:	DC 4.5V from battery		
Evaluation applied:	□ MPE Evaluation SAR Evaluation		

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2. Test Requirement

RF EXPOSURE EVALUATION

According to 447498 D01 V06, 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* \leq 50 mm are determined by:

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

- f_(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 \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 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 quality for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

According to ANSI C63.10-2013 9.5 Equations to calculate EIRP Calculate the EIRP from the radiated field strength in the far field using Equation (22): EIRP = E + 20log (d) -104.7 (22) where EIRP is the equivalent isotropically radiated power, in dBm E is the field strength of the emission at the measurement distance, in dB μ V/m d is the measurement distance, in m

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3. Measurement Result

Antenna gain:0.17 dBi

When a single module works, the measurement results are as follows:

2.4G

Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2410	74.83	-20.3276	-21±1	-20	0.00310483	3
2440	73.32	-21.8376	-22±1	-21	0.00248156	3
2470	70.79	-24.3676	-25±1	-24	0.00125135	3

According to KDB 447498 D01 V06, no stand-alone required for Integrated antenna, and no simultaneous SAR measurement is required.

*** End of Report ***