



TEST REPORT NUMBER: (8522)259-0075(A)

TEST REPORT

Applicant:	International Toy, Inc.	Fax:	---
		E-mail:	---
Address :	17682 Cowan 100,Irvine,California,United States 92614		
Test Date :	2022-10-08 to 2022-10-18		

Manufacturer or Supplier :	International Toy, Inc.
Address :	17682 Cowan 100,Irvine,California,United States 92614
Sample Description:	TTR22 LIGHTCYCLE RC
Model number:	020S421U002
Additional Model :	N/A
Rated Voltage:	DC3V (AAA*2)
FCC ID :	2ACU8INT111
The submitted sample of the above equipment has been tested according to following standard(s)	
47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06	
CONCLUSION: The submitted sample was found to COMPLY with the test requirement	

Assistant Manager

Name: Nick Lung

Date: OCT 27,2022



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2 General Information

2.1 Client Information

Applicant:	International Toy, Inc.
Address of Applicant:	17682 Cowan 100,Irvine,California,United States 92614
Manufacturer:	Everwin Toys (Dongguan) Co.,Ltd
Address of Manufacturer:	No.150, Xiekeng Road, Qingxi Town, Dongguan, Guangdong City,Guangdong Province,China

2.2 General Description of EUT

Name:	TTR22 LIGHTCYCLE RC
Model No.:	020S421U002
Trade Mark :	N/A
Serial No:	---
Software Version:	V1.0
Hardware Version:	V1.0
Frequency Range:	2407-2469MHz
Modulation Type:	GFSK
Number of Channels:	19
Sample Type:	Portable product
Antenna Type:	wire antenna
Antenna Gain:	-0.02dBi
Power Supply:	DC3V (AAA*2)



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3 SAR Evaluation

3.1 FCC RF Exposure Compliance Requirement

3.1.1 Standard Requirement

FCC:

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.1.2 Limits

FCC:

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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

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3.1.3 EUT RF Exposure

Measurement Data

FCC:

The worst case refer to report (8522)259-0075 is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dB μ V/m)	Value
2407	91.72	Peak

For 2445MHz:

Field strength = 91.72dB μ V/m @3m

Ant. gain -0.02dBi; so Ant numeric gain=0.995

So $pt = \{ [10^{(91.72/20)} / 10^6 \times 3]^2 / 30 / 0.995 \} \times 1000 \text{mW} = 0.448 \text{mW}$

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

Calculated value = $0.446 / 5 \cdot \sqrt{2.445} = 0.139 < 3$

So the SAR test is not required.