



Report No.: 86260703191

Date: July 21, 2026

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RF TEST REPORT

Applicant : Shantou City Chenghai District Xingchi Lie Toy Factory

Address: Dongxing Fourth Road, Shangcun Village, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

Manufacturer: Shantou City Chenghai District Xingchi Lie Toy Factory

Address: Dongxing Fourth Road, Shangcun Village, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China

EUT Name: 2.4G XC-101 PVC High-Speed Off-Road Remote Control Car

Trade mark: XCL

Model: XC-102, XC-101

FCC ID: 2BW92-XC-102

Rating: DC 3V

Sample Received Date: Jul. 3, 2026

Test Date: Jul. 3, 2026~Jul. 21, 2026

Applicable Standards: 47 CFR 2.1093

Test Result Pass

Prepared by:

Jojo Wu

Jojo Wu/Project Engineer

Approved by:

Bruce Zhang

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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Revision History

Version	Date of Issue	Description
V00	Jul. 21, 2026	Original Version

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Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

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1. EUT DESCRIPTION

Product:	2.4G XC-101 PVC High-Speed Off-Road Remote Control Car
Test Model:	XC-102, XC-101
Additional Model:	N/A
Rating:	DC 3V
FCC ID:	2BW92-XC-102
Antenna Type:	PCB Antenna
Antenna Gain:	-1 dBi
Operation Frequency:	2465MHz
Number of Channels:	1
Modulation Type:	GFSK
Hardware Version:	V1.0
Software Version:	V1.0

Note:

- 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity.
- 3) The product model is XC-102 the same PCB layout, electronic schematic and Antenna with XC-101. Only the models are difference.
- 4) The test results in the report only apply to the tested sample.

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2. RF EXPOSURE EVALUATION

2.1. Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1

Standalone 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.

- a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

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

The result is rounded to one decimal place for comparison

The values 3.0 and 7.5 are referred to as numeric thresholds in step b) 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 4.1 f) is applied to determine SAR test exclusion.

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2.2. Tune-up Result

Frequency (MHz)	Max Field strength(dBuV/m)	EIRP (dBm)	Maximum Tune up Power (dBm)
2465	92.7	-2.7576	-3±1

Note:

$E = \text{EIRP} - 20 \log D + 104.8$

E=electric field strength in dBuV/m

EIRP=equivalent isotropic radiated power in dBm

D=specified measurement distance in meters(3m)

2.3. Evaluation Result

Mode	Maximum Tune up Power (dBm)	Maximum Power (mW)	Min.distance (mm)	Calc. thresholds	Limit	Result
2.4GHz	-2	0.6310	5	0.1957	3	PASS

2.4. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01V06

End of Report

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