

TEST REPORT

Product Name : Remote control car
Model Number : YK001, YK002, YK003, YK004, YK005, YK006,
YK007, YK008, YK009, YK010, YK011, YK012,
YK013, YK014, YK015, YK016, YK017, YK018,
YK019, YK020
FCC ID : 2BMOE-YK001

Prepared for : Shantou Qiledi Trading Co., Ltd
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Shantou, Guangdong, China

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1. TEST RESULT CERTIFICATION

Applicant : Shantou Qiledi Trading Co., Ltd
Address : No.10,West 9th Lane, Guanshangdong New Road, Shantou, Guangdong, China
Manufacturer : Shantou Qiledi Trading Co., Ltd
Address : No.10,West 9th Lane, Guanshangdong New Road, Shantou, Guangdong, China
Factory : Shantou Qiledi Trading Co., Ltd
Address : No.10,West 9th Lane, Guanshangdong New Road, Shantou, Guangdong, China
EUT : Remote control car
Model Name : YK001, YK002, YK003, YK004, YK005, YK006, YK007, YK008, YK009, YK010, YK011, YK012, YK013, YK014, YK015, YK016, YK017, YK018, YK019, YK020
Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 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 § 15.247(i), § 2.1093.

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

Date of Test : Nov 29, 2024 to Jan 08, 2025

Prepared by : 
Jessica Zhang /Editor

Reviewer : 
Warren Deng /Supervisor

Approve & Authorized Signer :  
Sam Lv /Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2411290415E00802R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Remote control car
Model Number:	YK001, YK002, YK003, YK004, YK005, YK006, YK007, YK008, YK009, YK010, YK011, YK012, YK013, YK014, YK015, YK016, YK017, YK018, YK019, YK020 All products are identical except the model number. Here we selected YK001 for all the test.
Sample:	1#
Operating Frequency Range(s) :	2405MHz-2475MHz
Number of Channels:	16 channel
Max Field Strength	97.1 dBuV@3m
Antenna Type:	2.4G Linear antenna
Power Supply	DC 3V from Battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement

SAR 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* ≤ 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.

4. Measurement Result

Antenna gain: 0 dBi

2.4G SRD

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
2405	97.10	1.871	2±1	3	0.6189	3
2445	96.67	1.441	1±1	2	0.4956	3
2475	94.98	-0.249	0±1	1	0.3961	3

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

*** End of Report ***