Test Report

No.: AJT220810029EA-2

Applicant Name	: GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Applicant Address	: BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA
Manufacturer	: GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Manufacturer Address	: BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Sample Description	: RC TOYS
Model No.	: S12
Additional Model	: S5, S6, S7, S8, S9, S10, S11, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 1336, 1340, 1339A, 1339W, 1339W-VR, 1332A, 1332W, 1332W-VR, 1343A, 1343W, 2003, 2103, 2106, 1802, 1802-01, 1803, 1818, 1912B, 1306, 1345, 1315W, 1335W, 1327A, 1327W, HM0707, HM0710, HM1204, HM1304, HM0930, HM1816, ODY-1955LIT, DRC442, DRC442-BLK, DRC448, DRC448-BLK, DRC448-NOC-STK-2, 2016, 2106
Sample Received Date	: 10 Aug, 2022
Testing Completed Date	: 24 Oct, 2022

Tests conducted: For compliance with application, refer to attached page(s) for details.

Assess standard used:	Conclusion
FCC Part 1.1307	PASS

Tested by: Glory Reviewed by: Fly Liang Approved by: Gordon Zeng

Position: Technical Supervisor

Date: 2022-12-06

AJT TESTING SERVICES LIMITED
Add: 1-2/F., No.1, Wenhua South Road, Chenghua Industrial Zone, Chenghai District, Shantou, Guangdong, China
Tel: 86-754-85860999 Fax: 86-754-86984098 Website: www.ajtesting.com Email: info@ajtesting.com

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1 Test Standards

The tests were performed according to following standards:
FCC Part 1.1307: Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

2 Summary

2.1 General Remarks

Date of receipt of test sample	10 Aug, 2022
Testing commenced on	10 Aug, 2022 ---- 24 Oct, 2022
Testing concluded on	24 Oct, 2022

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3 General Information

3.1 General Description of E.U.T.

Product:	RC TOYS
Model(s):	S12
FCC ID:	2AWZK-S88812
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n
Antenna Gain:	2.31dBi
NOTE: 1.The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer. 2.This report supersedes the original report of AJT220810029E-2, Removed model Description for clause 3.1. 3.Product models same are identical in the PCB layout, electrical circuit design and functions, The differences are appearance color, exterior structure, and model name for commercial purpose.	

3.2 Details of E.U.T.

Operation Frequency:	WiFi: 802.11b/g/n HT20: 2412~2462MHz
Max. RF output power:	WiFi(2.4G): -2.18dBm
Type of Modulation:	WiFi: DSSS, OFDM
Ratings:	DC 3.7V for Battery & 3V*4(button*4) DC 5V For Adapter Charging
NOTE: 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.	

4 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307	PASS

5 RF Exposure

Test Requirement:	FCC Part 1.1307
Evaluation Method:	FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

5.1 Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

5.2 The procedures / limit

(A)Limits for Occupational / Controlled Exposure

Frequency Range(MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B)Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

5.3 MPE Calculation Method

$$S = \frac{\mathrm{P} \times \mathrm{G}}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)
P = output power to the antenna (in appropriate units, e.g., mW).
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained
Mode 1: alone transmission

Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Max.Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm^2)	Limit of Power Density (mW/cm^2)
2.4G WIFI	2.31	1.702	-2.18	0.605	0.000205	1

5.4 Result: Compliance

No SAR measurement is required.

END OF TEST REPORT

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