TEST REPORT

Product Name	:	**SKYVIEW FPV Real-time Video Transmission Drone-Remote control**
Model Number	:	**DRCSC4248-2024TX, DRCSC42-BLK, DRCSC48-BLK, DRCSC42-BLK-T37-4, DRCSC48-BLK-T37-4, DRCSC42-BLK-T57-2, DRCSC48-BLK-T57-2, 2003, 2106, 2106S, 2306, 2306S, 2308, 2308S, 2411, 2411S, 2418S, 2418W**
FCC ID	:	**2AWZK-2024TX**

Prepared for	:	Guangdong Hengdi Technology Corp., Ltd
Address	:	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road

Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
Address	:	-1&2/F.,Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China
		TEL: +86-0769-22807078
		FAX: +86-0769-22807079

Report Number	:	EDG2408300360E00302R
Date(s) of Tests	:	Aug 30, 2024 to Oct 10, 2024
Date of issue	:	Oct 11, 2024

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1. TEST RESULT CERTIFICATION

Applicant	:	Guangdong Hengdi Technology Corp., Ltd
Address	:	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Shantou, China
Manufacturer	:	Guangdong Hengdi Technology Corp., Ltd
Address	:	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Shantou, China
Factory	:	Guangdong Hengdi Technology Corp., Ltd
Address	:	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Shantou, China
EUT	:	SKYVIEW FPV Real-time Video Transmission Drone-Remote control
Model Name	:	DRCSC4248-2024TX, DRCSC42-BLK, DRCSC48-BLK, DRCSC42-BLK-T37-4, DRCSC48-BLK-T37-4, DRCSC42-BLK-T57-2, DRCSC48-BLK-T57-2, 2003, 2106, 2106S, 2306, 2306S, 2308, 2308S, 2411, 2411S, 2418S, 2418W
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 : Aug 30, 2024 to Oct 10, 2024

Prepared by : Jessica Zhang /Editor

Reviewer : Warren Deng /Supervisor

Approve & Authorized Signer : Sam Lv /Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2408300360E00302R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	SKYVIEW FPV Real-time Video Transmission Drone-Remote control
Model Number:	DRCSC4248-2024TX, DRCSC42-BLK, DRCSC48-BLK, DRCSC42-BLK-T37-4, DRCSC48-BLK-T37-4, DRCSC42-BLK-T57-2, DRCSC48-BLK-T57-2, 2003, 2106, 2106S, 2306, 2306S, 2308, 2308S, 2411, 2411S, 2418S, 2418W All products are identical except the model number.Here we selected DRCSC4248-2024TX for all the test.
Sample:	1#
Modulation:	GFSK
Operating Frequency Range(s) :	2420MHz-2470MHz
Number of Channels:	51 channel
Max Field Strength	74.93dBuV@3m
Antenna Type:	2.4G Linear antenna
Antenna Gain:	2.99 dBi
Power Supply	DC 4.5V 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:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 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 calculation[25]
- 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 quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain: 2.99 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
2420	74.93	-20.299	-20±1	-19	0.0039	3
2445	73.45	-21.779	-21±1	-20	0.0031	3
2470	66.28	-28.949	-28±1	-27	0.0006	3

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

*** End of Report ***