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RF Exposure Evaluation Report

Report No.: CQASZ20260400831E-03
Applicant: Shenzhen Hollyland Technology Co., Ltd.
Address of Applicant: 8F, Building 5D, Skyworth Innovation Valley, Tangtou Road, Shiyan Street, Baoan District Shenzhen, 518055 China

Equipment Under Test (EUT):

EUT Name: WIRELESS VIDEO TRANSMISSION SYSTEM

Model No.: Pyro S

Test Model No.: Pyro S

Brand Name:  **HOLLYLAND**

FCC ID: 2ADZC-9831T1

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2026-04-23

Date of Test: 2026-04-23 to 2026-06-01

Date of Issue: 2026-6-5

Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260400831E-03	Rev.01	Initial report	2026-6-5

2 Contents

	Page
1 VERSION	2
2 CONTENTS	3
3 GENERAL INFORMATION	4
3.1 CLIENT INFORMATION	4
3.2 GENERAL DESCRIPTION OF EUT	4
3.3 GENERAL DESCRIPTION OF 2.4G WIFI CLASSIC	5
3.4 GENERAL DESCRIPTION OF 5G WIFI CLASSIC	5
4 MPE EVALUATION	6
4.1 RF EXPOSURE COMPLIANCE REQUIREMENT	6
4.1.1 Limits	6
4.1.2 Test Procedure	6
4.1.3 EUT RF Exposure	7

3 General Information

3.1 Client Information

Applicant:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Applicant:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China
Manufacturer:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Manufacturer:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China
Factory:	Shenzhen Hollyland Technology Co.,Ltd.
Address of Factory:	8F,Building 5D,Skyworth Innovation Valley,Tangtou Road. Shiyan Street, Baoan District Shenzhen, 518055 China

3.2 General Description of EUT

Product Name:	WIRELESS VIDEO TRANSMISSION SYSTEM
Model No.:	Pyro S
Test Model No.:	Pyro S
Trade Mark:	
Software Version:	V78
Hardware Version:	S2.0.0.4
EUT Power Supply:	Power supply DC12V form adapter Adapter: Model:GQ24-120200-AX Input:100-240V~50/60Hz 1.0A Max Output:12.0V $\pm$ 2.0A 24.0W

3.3 General Description of 2.4G WIFI Classic

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Type of Modulation:	802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Transfer Rate:	802.11b: 1M/2M/5.5M/11M bps 802.11g: 6M/9M/12M/18M/24M/36M/48M/54M bps 802.11n: 7.2M/14.4M/21.7M/28.9M/43.3M/57.8M/65M/72.2M bps
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	SMAJ antenna
Antenna Gain:	ANT1:1.64dBi ANT2:1.64dBi ANT1+ANT2:4.65dBi

3.4 General Description of 5G WIFI Classic

Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz IEEE802.11n/ac(40M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz IEEE802.11n/ac(40M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel
Type of Modulation:	OFDM
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	SMAJ antenna
Antenna gain:	ANT1:2.75dBi ANT2:2.75dBi ANT1+ANT2:5.76dBi
Cable loss:	1.0 dB

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	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				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure

1) For 2.4G WIFI

Antenna Gain: 4.65dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.92 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

11N20MIMO mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	6.85	7.0±1	8	6.31
Middle(2437MHz)	8.52	9.0±1	10	10.00
Highest(2462MHz)	9.01	9.5±1	10.5	11.22

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
11.2	4.65	0.0065122210	1.0	PASS

Note: 1) Refer to report No. CQASZ20250100185E-03 for EUT test Max Conducted AV Output Power value.

2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (11.2 * 2.92) / (4 * 3.1416 * 20^2) = 0.0065122210$

2) For 5G WIFI Classic

Antenna Gain: 5.76dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.77 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

11N20MIMO mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(5180MHz)	15.41	15.5±1	16.5	44.67
Middle(5200MHz)	14.84	15.0±1	16	39.81
Highest(5240MHz)	14.11	14.5±1	15.5	35.48

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
44.67	5.76	0.0334756585	1.0	PASS

Note: 1) Refer to report No. CQASZ20250100185E-04 for EUT test Max Conducted AV Output Power value.

2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (44.67 * 3.77) / (4 * 3.1416 * 20^2) = 0.0334756585$

*** END OF REPORT ***