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### Report Template Revision Date: Mar.1st, 2017

Report Template Version: V03

# **RF Exposure Evaluation Report**

Report No.: CQASZ20201200043EX-04

Shenzhen Yueliang Electronic Technology Co., Ltd. Applicant:

Building C, baoying industrial zone, no. 21 Wulian Road, Longxi Community, **Address of Applicant:** 

Longgang District, Shenzhen, China

Shenzhen Yueliang Electronic Technology Co., Ltd. Manufacturer:

Building C, baoying industrial zone, no. 21 Wulian Road, Longxi Community, Address of

Longgang District, Shenzhen, China Manufacturer:

Shenzhen Yueliang Electronic Technology Co., Ltd. **Factory:** 

Building C, baoying industrial zone, no. 21 Wulian Road, Longxi Community, Address of Factory:

Longgang District, Shenzhen, China

**Equipment Under Test (EUT):** 

HD Wireless Monitor with CarPlay and Recording Function **Product:** 

Model No.: YL-761 **Brand Name:** N/A

2A7IE-YL761 FCC ID:

47 CFR Part 1.1307 Standards:

47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2022.05.05-2022.05.13

Date of Issue: 2022-06-23

Test Result: PASS\*

Tested By:

Reviewed By:

'Aaron Ma)

Tom chen

Approved By:

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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# 1 Version

# **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20200200089E-03	Rev.01	Initial report	2022-06-23



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#### 3 SAR Evaluation

#### 3.1 RF Exposure Compliance Requirement

#### 3.1.1 **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/cm²)	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/f²)	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 <sup>2</sup> )	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: Pd = (Pout\*G)/(4\*Pi\*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id 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.

#### 3.1.2 Test Procedure

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



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### 3.1.3 EUT RF Exposure

1) For 2.4G BT

Ant gain=0dBi

Ant numeric gain= 1

Field strength = 88.84 dBuV/m@3m  $P= \{ \ [10^{(88.84\ /20)}\ /10^6\ *3]^2/\ (30*1)\ \}*1000mW = 0.00284mW \}$ 

Pd= (30\*0.003\*1) / (377\*20^2)=0.0000006< 1

#### Remark:

The Max Conducted Average Output Power data refer to report Report No.: 90485-22-72-22-PP001 The Maxinum power is less than the limit, complies with the exemption requirements, SAR is exempted.