RF Exposure Evaluation Report

Product	:	HUIYANXIAOBAO
Trade mark	:	HUIYANXINGDONG
Model/Type reference	:	EYE2CH
Serial Number	:	N/A
Report Number	:	EED32M00150002
FCC ID	:	2AWT6HY2003
Date of Issue	:	Jul. 28, 2020
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 2.1091 KDB447498D01v06
Test result	:	PASS

Prepared for:

Shenzhen kangjian and Health Management Service Co., Ltd.
601, 3F, workshop 147, Tiegang Reservoir Road, Xixiang street, Bao'an District, Shenzhen, China

Prepared by:

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Date: Jul. 28, 2020

Check No.:3336837445

2 Version

Version No.	Date	Description
00	Jul. 28, 2020	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	Shenzhen kangjian and Health Management Service Co., Ltd.
Address of Applicant:	601, 3F, workshop 147, Tiegang Reservoir Road, Xixiang street, Bao'an District, Shenzhen, China
Manufacturer:	Shenzhen kangjian and Health Management Service Co., Ltd.
Address of Manufacturer:	601, 3F, workshop 147,Tiegang Reservoir Road, Xixiang street, Bao'an District, Shenzhen, China
Factory:	MARUTAKATECHNO CO.,LTD
Address of Factory:	550-1 HIRODORI YAWATA FUJIEDA-SHI SHIZUOKA 426-0009 JAPAN

4.2 General Description of EUT

Product Name:	HUIYANXIAOBAO
Model No.(EUT):	EYE2CH
Trade Mark:	HUIYANXINGDONG
EUT Supports Radios application	4.2 BT Single mode, 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz				
Modulation Type:	GFSK				
Test Power Grade:	Default				
Test Software of EUT:	Beken BLE RF Test				
Antenna Type:	PIFA antenna				
Antenna Specification	Bluetooth :	Antenna Gain :	0.00 dBi	(Numeric gain:	1.00)
Maximum tune up power	Bluetooth:		2.00 dBm		(1.585 mW)
Power Supply:	Adapter	MODEL:ICP12-120-1000D INPUT:100-240V~50/60Hz 0.3A OUTPUT:12.0V⎓1000mA			
Sample Received Date:	May 29, 2020				
Sample tested Date:	May 29, 2020 to Jul. 01, 2020				
The tested sample(s) and the sample information are provided by the client.					

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and

d (cm) = d(m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$ ***Equation 1***

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm^2

5.2 Maximum Permissible Exposure

Substituting the MPE safe distance using d = 20 cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

Bluetooth:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm²	Limit (mW/cm²)
19	2440	1.585	1	20	0.0003	1

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00150001 for EUT external and internal photos.

*** End of Report ***