

RF Exposure Evaluation Report

Product : headsup
Trade mark : Revsmart
Model/Type reference : R01, RXY (the first "X" can be a number from 0 to 9, and the second "Y" can be a number from 0 to 9)
Serial Number : N/A
Report Number : EED32L00236703
FCC ID : 2AUNPHEADSUP-R01
Date of Issue : Sep. 29, 2019
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

REVSMART WEARABLE HK CO LTD
22/F., 3 Lockhart Road, Wanchai, Hongkong

Prepared by:

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Sep. 29, 2019

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2 Version

Version No.	Date	Description
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4 General Information

4.1 Client Information

Applicant:	REVSMART WEARABLE HK CO LTD
Address of Applicant:	22/F., 3 Lockhart Road, Wanchai, Hongkong
Manufacturer:	REVSMART WEARABLE HK CO LTD
Address of Manufacturer:	22/F., 3 Lockhart Road, Wanchai, Hongkong
Factory:	Dongguan YouHong Electronics Co.,Ltd
Address of Factory:	No 152, Xin Yuan 1st Road, Song Bo Lang Industrial Park, Dalang Town, Dongguan City, Guangdong Province, P.R.C

4.2 General Description of EUT

Product Name:	headsup
Model No.(EUT):	R01, RXY (the first "X" can be a number from 0 to 9, and the second "Y" can be a number from 0 to 9)
Test Model No.:	R01
Trade Mark:	Revsmart
EUT Supports Radios application:	BT 5.0 Dual mode 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz	
Modulation Type:	GFSK, 8DPSK, π /4DQPSK ,	
Test Power Grade:	GFSK: L:20 M:0 H:0 π /4DQPSK: L:20 M:0 H:10 8DPSK:L:30 M:10 H:10 BLE : Default.	
Test Software of EUT:	BlueTest3	
Antenna Type:	PCB antenna	
Antenna Gain:	-0.76 dBi	
Power Supply:	Battery	420 mAh 3.7V.
Max Conducted Peak Output Power:	BT4.0: 7.37dBm The Max Conducted Peak Output Power data refer to the report EED32L00236702	
Sample Received Date:	Aug. 26, 2019	
Sample tested Date:	Aug. 26, 2019 to Sep. 27, 2019	
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 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The tune-up power is 6 dBm +/- 2dB, therefore the highest tune-up power is

7.4 dBm (5.46 mW) @ 2441 MHz

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.

So,

$$\left(\frac{5\text{mW}}{5\text{mm}} \right) * \left(2.441\text{GHz}^{0.5} \right) = 1.7$$

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] * \left[\sqrt{f(\text{GHz})} \right] = 1.7 < 3.0$$

Therefore, standalone SAR measurements are not required for both head and body

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00236701 for EUT external and internal photos.

*** End of Report ***

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