

RF Exposure Evaluation Report

Product : Razor Silencer Bluetooth
Trade mark : Walker's
Model/Type reference : GWP-SLCR-BT, GWP-SLCRFDECMO-BT,
GWP-SLCRXXXXXX-BT - (Where X= 0-9 or A-Z)
Serial Number : N/A
Report Number : EED32K00238703
FCC ID : MV3-GWPSLCRBT
Date of Issue : Sep. 20, 2018
: 47 CFR Part 1.1307
Test Standards : 47 CFR Part 2.1093
KDB447498D01 v06
Test result : PASS

Prepared for:

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Date:

Sep. 20, 2018

Check No.:3096346882



2 Version

Version No.	Date	Description
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4 General Information

4.1 Client Information

Applicant:	Country Mate Technology Ltd
Address of Applicant:	5/F, Blk E, Hing Yip Center. 31 Hing Yip Street, Kwun Tong, Kln, Hong Kong
Manufacturer:	Country Mate Technology Ltd
Address of Manufacturer:	5/F, Blk E, Hing Yip Center. 31 Hing Yip Street, Kwun Tong, Kln, Hong Kong
Factory:	Concord Electronic (Huizhou) Ltd.
Address of Factory:	21, Ping An Rd, Shuikou Street, Hui Cheng District, Huizhou City, Guangdong Province, China

4.2 General Description of EUT

Product Name:	Razor Silencer Bluetooth
Model No.(EUT):	GWP-SLCR-BT, GWP-SLCRFDECMO-BT, GWP-SLCRXXXXXX-BT - (Where X= 0-9 or A-Z)
Test Model No.:	GWP-SLCR-BT
Trade mark:	Walker's
EUT Supports Radios application:	BT4.2 BT Dual mode, 2402-2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	BT4.2 BT Dual mode, 2402-2480MHz
Test Power Grade:	N/A
Test Software of EUT:	CSR BlueTest3(manufacturer declare)
Antenna Type:	PCB Antenna
Antenna Gain:	0.8dBi
Power Supply:	Battery: 3.7V, 85mAh
Conducted Peak Output Power:	-0.907dBm The Conducted Peak Output Power data refer to the report EED32K00238701
Firmware version of the sample:	V0.5(manufacturer declare)
Hardware version of the sample:	V0.3(manufacturer declare)
Sample Received Date:	Aug. 30, 2018
Sample tested Date:	Aug. 30, 2018 to Sep. 17, 2018
The tested sample(s) and the sample information are provided by the client. Model No.:GWP-SLCR-BT, GWP-SLCRFDECMO-BT, GWP-SLCRXXXXXX-B - (Where X= 0-9 or A-Z) Only the left Ear buds was tested, the model is GWP-SLCR-BT, since Their electrical circuit design, layout, components used and internal wiring are identical, Only the Color and enclosure is different.	

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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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

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 Max Conducted Peak Output Power is 4.31dBm in highest channel(2.480GHz);

The best case gain of the antenna is 0.8dBi.

$\text{EIRP} = -0.907\text{dBm} + 0.8\text{dBi} = -0.107\text{dBm}$

-0.107dBm logarithmic terms convert to numeric result is nearly 0.976mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(0.976\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 0.307$ ①

SAR requirement:

$S = 3.0$

② ;

① < ②.

So the SAR report is not required.

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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00238701 for EUT external and internal photos.

*** End of Report ***

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