

RF Exposure Evaluation Report

Product : Razor XV BT
Trade mark : Walker's
Model/Type reference : GWP-NHE-BT
Serial Number : N/A
Report Number : EED32L00066602
FCC ID : MV3-GWPNHE
Date of Issue : May 14, 2019
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB 447498D01 v06
Test result : PASS

Prepared for:

Country Mate Technology Ltd
5/F, Blk E, Hing Yip Center. 31 Hing Yip Street, Kwun Tong,
Kln, Hong Kong

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Tested By:

Jay

Jay

Compiled by:

Kevin lan

Kevin lan

Reviewed by:

Ware Xin

Ware xin

Approved by:

Kevin yang

Kevin yang

Date:

May 14, 2019



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2 Version

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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 XV BT
Model No.(EUT):	GWP-NHE-BT
Trade mark:	Walker's
EUT Supports Radios application:	BT: 2402-2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Test Power Grade:	N/A
Test Software of EUT:	AB153x_Airoha_Tool_Kit(ATK)_V1.1.16(manufacturer declare)
Antenna Type:	Chip Antenna
Antenna Gain:	-1.18dBi
Power Supply:	Battery: 3.7V,120mAh
Max Conducted Peak Output Power:	5.891dBm The Max Conducted Peak Output Power data refer to the report EED32L00066601
Sample Received Date:	Mar. 29, 2019
Sample tested Date:	Mar. 29, 2019 to Apr. 15, 2019
Remark: The tested sample(s) and the sample information are provided by the client.	

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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:

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

$[\sqrt{f(\text{GHz})}] \leq 3.0$ 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 Max Conducted Peak Output Power is 5.891dBm in highest channel(2.480GHz);

The best case gain of the antenna is -1.18dBi.

$\text{EIRP} = 5.891\text{dBm} + (-1.18)\text{dBi} = 4.711\text{dBm}$

4.711dBm logarithmic terms convert to numeric result is nearly 2.96mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(2.96\text{mW} / 5 \text{ mm}) \times \sqrt{2.480\text{GHz}} = 0.376$. ①

SAR requirement:

$S = 3.0$

② ;

① < ②.

So the SAR report is not required.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00066601 for EUT external and internal photos.

*** End of Report ***

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