

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

Business Support Consultant Co.,Ltd

PRODUCT NAME

Bicycle call gear

MODEL NAME

: FBVW01

TRADE NAME

VOCE-rable

BRAND NAME

VOCE Wearable

FCC ID

2AFEHVOCERABLE

47CFR 2.1091

STANDARD(S)

KDB 447498 D01 General RF Exposure

Guidance v06

ISSUE DATE

SHENZHEN MORLAB COMMU TECHNOLOGY Co., Ltd.

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DIRECTORY

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Change History				
Issue	Date	Reason for change		
1.0	2016-05-03	First edition		
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TEST REPORT DECLARATION

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Business Support Consultant Co.,Ltd
Room 703-705, 5 Guihua Road, Futian Free Trade Zone, Shenzhen, China 518038
Bicycle call gear
FBVW01
VOCE Wearable
B29V1.2
B29V1.4
47CFR 2.1091; KDB 447498 D01 General RF Exposure Guidance v06
2016-05-03
Not Required

Tested by		Chen Shengkui
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Chen Shengkui

Reviewed by Zhu Zhan

Approved by



1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

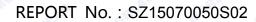
Company Name:	Business Support Consultant Co.,Ltd
Address:	Room 703-705, 5 Guihua Road, Futian Free Trade Zone, Shenzhen,
The Mokey Mo.	China 518038

1.2. Identification of Manufacturer

Company Name:	Business Support Consultant Co.,Ltd	
Address:	Room 703-705, 5 Guihua Road, Futian Free Trade Zone, Shenzhen,	
E OFLAN MORE	China 518038	

1.3. Equipment Under Test (EUT)

Model Name:	FBVW01	
Trade Name:	VOCE-rable	
Brand Name:	VOCE Wearable	
Hardware Version:	B29V1.2	
Software Version:	B29V1.4	
Frequency Bands:	Bluetooth 2.1+EDR	
Modulation Mode:	Bluetooth GFSK/π/4-DQPSK/8-DPSK	
Antenna type:	Fixed Internal Antenna	
Development Stage:	Identical prototype	





1.3.1. Photographs of the EUT

EUT front view



2. EUT rear view





1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	B29V1.2	B29V1.4

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1 OPLAE	47 CFR§2.1091	Radiofrequency Radiation Exposure Evaluation: mobile devices
2	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Bluetooth earphone. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.





3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

Bluetooth Conducted Average Output Power

		* A	
Band	Channel	Frequency (MHz)	Output Power(dBm)
			GFSK
QLAB.	0	2402	0.92
ВТ	19	2440	-1.17
LAB JOR	39	2480	-1.23

4. RF EXPOSURE EVALUATION

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] ≤ 3.0

The maximum tune-up limit power is 0.31mW @ 2.402GHz

So use 5mm as the most conservative minimum test separation distance,

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] =0.31 \leq 3.0

So SAR evaluation is not required for this device.



ANNEX A GENERAL INFORMATION

1. IDENTIFICATION OF THE RESPONSIBLE TESTING LABORATORY

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
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	Province, P. R. China

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