

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

VR Technology(shenzhen)Limited

PRODUCT NAME

3Wand

MODEL NAME

3Wand G1

TRADE NAME

N/A

BRAND NAME

3Glasses

FCC ID

2AKA6-G1

47CFR 2.1093

STANDARD(S)

KDB 447498 D01 General RF Exposure

Guidance v06

ISSUE DATE

2016-11-11

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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	Change History		
Issue	Issue Date Reason for change		
1.0	1.0 2016-11-11 First edition		
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TEST REPORT DECLARATION

Applicant	VR Technology(shenzhen)Limited	
Applicant Address	Room4A, Tower A1, Dinital Technology Park ,No.2, Gaoxin South 7th Road,Nanshan District,Shenzhen,China	
Manufacturer	BYD Precision Manufacture Company Limited	
Manufacturer Address	No.1 Baoping Road, Baolong Industrial Area, Longgang, Shenzhen, Guangdong Province	
Product Name	3Wand	
Model Name	3Wand G1	
Brand Name	3Glasses	
HW Version	G1-MB-V4	
SW Version	N/A	
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06	
Issue Date	2016-11-11	
SAR Evaluation	Not Required	

Tested by :	Chen Shong kur	
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1. TECHNICAL INFORMATION

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

1.1. Identification of Applicant

Company Name:	VR Technology(shenzhen)Limited	
Address:	Room4A, Tower A1, Dinital Technology Park ,No.2, Gaoxin South 7th	
AL MORE MO	Road,Nanshan District,Shenzhen,China	

1.2. Identification of Manufacturer

Company Name:	BYD Precision Manufacture Company Limited	
Address:	No.1 Baoping Road, Baolong Industrial Area, Longgang, Shenzhen,	
E ORLAN MORE	Guangdong Province	

1.3. Equipment Under Test (EUT)

Model Name:	3Wand G1
Trade Name:	N/A
Brand Name:	3Glasses
Hardware Version:	G1-MB-V4
Software Version:	N/A
Frequency Bands:	2402-2436MHz;
Modulation Mode:	GFSK;
Antenna type:	Fixed Internal Antenna
Development Stage:	Identical prototype
Antenna Gain:	2 dBi





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#	G1-MB-V4	N/A	

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1 AB	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual.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

1. Average output power

Band	Channel	Channel Frequency (MHz)	Output Power(dBm)
Bana	on an inco		GFSK
QLAB.	3	2402	2.34
2.4GHz	18	2418	2.29
LAE JOR	36	2436	2.27

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 1.70mW @ 2.402GHz

When Bluetooth Watch is worn on the hand, 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)]·[$\sqrt{f(GHz)}$] =0.53 \leq 3.0

So SAR evaluation is not required for this device.



ANNEX 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
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
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