



REPORT No. : SZ17040158S02

RF EXPOSURE EVALUATION REPORT

APPLICANT : VR Technology(shenzhen)Limited

PRODUCT NAME : VR MHD

MODEL NAME : Blubur S1

TRADE NAME : N/A

BRAND NAME : 3Glasses

FCC ID : 2AKA6-S1

STANDARD(S) : 47CFR 2.1093
KDB 447498 D01 General RF Exposure
Guidance v06

ISSUE DATE : 2017-07-27



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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DIRECTORY

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Change History		
Issue	Date	Reason for change
1.0	2017-07-27	First edition

**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	VR MHD
Model Name	Blubur S1
Brand Name	3Glasses
HW Version	S1-V8
SW Version	V4-5
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06
Issue Date	2017-07-27
SAR Evaluation	Not Required

Tested by

:

Peng Fuwei (Test engineer)

Approved by

:

Peng Huarui (Supervisor)



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 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, Guangdong Province

1.3. Equipment Under Test (EUT)

Model Name:	Blubur S1
Trade Name:	N/A
Brand Name:	3Glasses
Hardware Version:	S1-V8
Software Version:	V4-5
Frequency Bands:	2.4GHz:2405-2475MHz;
Modulation Mode:	2.4GHz: GFSK;
Antenna Type:	PCB Antenna
Antenna Gain:	-2.87 dBi

1.3.1. Photographs of the EUT

1. 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#	S1-V8	V4-5

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	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, this device is a VR MHD. 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. 2.4G average output power

Band	Frequency (MHz)	Output Power(dBm)
2.4GHz	2405	-2.351
	2450	-1.060
	2475	-1.117

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:

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

The maximum tune-up limit power is **0.78mW @ 2.45GHz**

When VR MHD is worn on the head, so use **5mm** as the most conservative minimum test separation distance,

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = \mathbf{0.24} \leq 3.0$

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
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
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***** END OF REPORT *****