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RF Exposure Evaluation Report

Product : FLIP

Trade mark : N/A

Model/Type reference : X3C01, SA16

Serial Number : N/A

Report Number : EED32J00037602

FCC ID : 2ALLR-X3C01

Date of Issue : Mar. 29, 2017

Test Standards : 47 CFR Part 1.1307 (2015)

47 CFR Part 2.1093 (2015)

KDB447498D01 v06

Test result : PASS

Prepared for:

Guangdong Virtual Reality Technology Co,. Ltd.
Shenzhen Flour Limited, South Gate 3rd Floor, 9106 Beihuan Avenue,
Nanshan District, Shenzhen, Guangdong

Prepared by:

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Date:

Mar. 29, 2017

Check No.: 2392116632









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2 Version

Version No.	Date	Description			
00	Mar. 29, 2017		Original		
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4 General Information

4.1 Client Information

Applicant:	Guangdong Virtual Reality Technology Co,. Ltd.		
Address of Applicant:	Shenzhen Flour Limited, South Gate 3rd Floor, 9106 Beihuan Avenue, Nanshan District, Shenzhen, Guangdong		
Manufacturer:	Guangdong Virtual Reality Technology Co,. Ltd.		
Address of Manufacturer:	Shenzhen Flour Limited, South Gate 3rd Floor, 9106 Beihuan Avenue, Nanshan District, Shenzhen, Guangdong		
Factory:	Shenzhen Kaifa Technology Co,. LTD		
Address of Factory:	Caitian Road 7006, Futian District, Shenzhen		

4.2 General Description of EUT

Product Name:	FLIP		
Model No.:	X3C01, SA16		
Test Model No.:	X3C01	(0,)	10,
Trade mark:	N/A		
EUT Supports Radios application:	BT4.0 Signal mode		-15

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz			
Modulation Type:	GFSK			
Test Power Grade:	N/A	/5		100
Test Software of EUT:	N/A			(6)
Antenna Type:	PIFA Antenna			16
Antenna Gain:	2dBi			
Power Supply:	alkaline battery: 2(AAA)*1.5V=3.0V		245	
Max Conducted Output Power:	-2.003dBm		(4)	
Sample Received Date:	Mar. 20, 2017			
Sample tested Date:	Mar. 20, 2017 to Mar. 24, 2017			

The tested samples and the sample information are provided by the client.

Model No.:X3C01, SA16

Only the model X3C01 was tested, since the electrical circuit design, layout, components used and internal wiring are identical for the above models, with difference the outer decoration.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com









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The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758





















































































































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4.6 Deviation from Standards

None.



4.8 Other Information Requested by the CustomerNone.





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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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation 17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max Conducted Output Power is -2.003dBm in lowest channel(2.402GHz);

The best case gain of the antenna is 2dBi.

EIRP = -2.003dBm + 2dBi = -0.003dBm

-0.003dBm logarithmic terms convert to numeric result is nearly 1mW

According to the formula:

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

2;

General RF Exposure = $(1 \text{mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{GHz}} = 0.31 \text{ }$

SAR requirement:

S= 3.0 (1) < (2).

Hotline: 400-6788-333

So the SAR report is not required.

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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32J00037601 for EUT external and internal photos.

*** End of Report ***

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