

RF EXPOSURE EVALUATION REPORT

- **APPLICANT** : Shanghai Flydigi Electronics Technology Co.,Ltd.
- PRODUCT NAME : Wee Mobile Game Controller
- **MODEL NAME** : Wee
- **BRAND NAME** : Flydigi
- FCC ID : 2AORE-WEE
- STANDARD(S) : 47CFR 2.1093 KDB 447498
- **ISSUE DATE** : 2018-03-09

Tested by:

Liang Yumei Liang Yumei (Test engineer)

Approved by: _____ Gan Yueming

Gan Yueming (Supervisor)

NOTE: This document is issued by MORLAB, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555 Fax: 86-755-36698525 E-mail: service@morlab.cn Http://www.morlab.cn





DIRECTORY

1.	Technical Information	• 3
1.1	Applicant and Manufacturer Information	• 3
1.2	Equipment Under Test (EUT) Description	• 3
1.3	Photographs of the EUT	• 4
1.4	Applied Reference Documents	· 5
2.	Device Category And RF Exposure Limit	• 6
3.	Measurement Of conducted Peak Output Power	• 7
4.	RF Exposure Evaluation	• 7
An	nex A General Information	• 8

Change History		
Issue	Date	Reason for change
1.0	2018-03-09	First edition





1. Technical Information

Note: Provide by manufacturer.

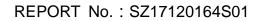
1.1 Applicant and Manufacturer Information

Applicant: Shanghai Flydigi Electronics Technology Co.,Ltd.	
Applicant Address: Rm1108, No.258 Guoxia Rd, Yangpu District, Shang	
Manufacturer:	Shanghai Flydigi Electronics Technology Co.,Ltd.
Manufacturer Address:	Rm1108, No.258 Guoxia Rd, Yangpu District, Shanghai

1.2 Equipment Under Test (EUT) Description

EUT Type:	Wee Mobile Game Controller
Hardware Version: FeiZhiWee_Ver10 2017-02-08	
Software Version: 4.9.3	
Frequency Bands: Bluetooth 4.0 LE : 2402MHz ~ 2480MHz ;	
Modulation Mode: Bluetooth 4.0 LE : GFSK;	
Antenna Type:	PCB Antenna
Antenna Gain:	-4.41dBi







1.3 Photographs of the EUT

1. EUT front view



2. EUT rear view



MORLAB

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
 Tel: 86-755-36698555
 Fax: 86-755-36698525

 Http://www.morlab.cn
 E-mail: service@morlab.cn



1.3.1 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#	FeiZhiWee_Ver10 2017-02-08	4.9.3

1.4 Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR§2.1093	Radio frequency 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 Wee Mobile Game Controller. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

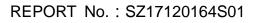
For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

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. Bluetooth Peak output power

Band	Channel	Frequency (MHz)	Output Power(dBm) GFSK
	0	2402	0.61
BLE	19	2440	-0.16
	39	2480	-1.42

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 \leq 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 1.26mW @ 2.402GHz

When Wee Mobile Game Controller is used 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)]·[$\sqrt{f}(GHz)$] =0.39 \leq 3.0

So SAR evaluation is not required for this device.

Note: Declaration of the tune-up limit is 1.0dBm.





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
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

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	
	Province, P. R. China	

_____ END OF REPORT ____

