

RF EXPOSURE EXEMPT REPORT

APPLICANT : Shanghai Flydigi Electronics Technology

Co.,Ltd.

PRODUCT NAME : Flydigi Wasp One-handed Gamepad

MODEL NAME : FeiZhi Wasp-BT

BRAND NAME: Flydigi

FCC ID : 2AORE-WASP-BT

STANDARD(S) : 47CFR 2.1093 KDB 447498

RECEIPT DATE : 2018-09-16

TEST DATE : 2018-09-27

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DIRECTORY

1	Technical Information	4
١.		٠
1.1	Applicant and Manufacturer Information	3
1.2	Equipment Under Test (EUT) Description	3
1.3	Photographs of the EUT ·······	_
1.4	Identification of all used EUT	4
	Applied Reference Documents	
1.5	Applied Reference Documents	:
2.	Device Category and RF Exposure Limit	(
3.	Measurement of RF Output Power	7
4	RF Exposure Evaluation	ç
An	nex A General Information ······	9

Change History		
Issue	Date	Reason for change
1.0	2018-09-27	First edition

Page**2** 0f **9**



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, Shanghai
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:	Flydigi Wasp One-handed Gamepad
Hardware Version:	FeiZhi Wasp-V1.1
Software Version: FeiZhi Wasp-V1.0.1	
Frequency Bands:	Bluetooth: 2402MHz-2480MHz
Modulation Mode:	BLE: GFSK
Antenna Gain:	-4.41dBi





1.3 Photographs of the EUT

1. EUT front view



2. EUT rear view



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1.4 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#	FeiZhi Wasp-V1.1	FeiZhi Wasp-V1.0.1

1.5 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 Flydigi Wasp One-handed Gamepad. 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 RF Output Power

Bluetooth

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Band	Channel	Frequency	Peak Power(dBm)
Dallu		(MHz)	GFSK
	CH 00	2402	3.48
BLE	CH 39	2441	4.19
	CH 78	2480	4.51
Tune-up Limit			5.0

Note:

According to KDB 447498, time-averaged maximum conducted output power applies to SAR and, as required by § 2.1091(c), time-averaged effective radiated power applies to MPE.



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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 3.16mW @ 2.48GHz

When the Flydigi Wasp One-handed Gamepad is used on the hand/head, 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)]·[$\sqrt{f(GHz)}$] =**1.0**<3.0

Therefore the standalone SAR evaluation are not required for this device.

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Annex A General Information

1. Identification of the Responsible Testing Laboratory

<u> </u>		
Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.	
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Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang	
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2. Identification of the Responsible Testing Location

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