RF EXPOSURE REPORT

Product:	GANKER EX BATTLE ROBOT
Model Name:	G00500
FCC ID:	2AI4F-G00500
Applicant:	Shenzhen GJS technology Co., LTD.
Address:	313 Bldg 7, Qianhai Shenzhen-Hong Kong Youth Innovation and Entrepreneur Hub, 35 Qianwan 1st Rd, Qianhai Shenzhen-Hong Kong Modern Service Industry Cooperation Zone, Shenzhen, Guangdong Province, China
Manufacturer:	Shenzhen GJS technology Co., LTD.
Address:	313 Bldg 7, Qianhai Shenzhen-Hong Kong Youth Innovation and Entrepreneur Hub, 35 Qianwan 1st Rd, Qianhai Shenzhen-Hong Kong Modern Service Industry Cooperation Zone, Shenzhen, Guangdong Province, China
Prepared by:	BV 7Layers Communications Technology (Shenzhen) Co. Ltd
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Report No.:	SA190702W005
Received Date:	Jul. 02, 2019
Test Date:	Jul. 30, 2019 ~ Jul. 30, 2019
Issued Date:	Aug. 02, 2019

This report should not be used by the client to claim product certification, approval, or endorsement by A2LA or any government agencies.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA190702W005	Original release	Aug. 02, 2019

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

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1 CERTIFICATION

PRODUCT:	GANKER EX BATTLE ROBOT
BRAND NAME:	GJS ROBOT
MODEL NAME:	G00500
APPLICANT:	Shenzhen GJS technology Co., LTD.
TESTED:	Jul. 30, 2019 ~ Jul. 30, 2019
TEST SAMPLE:	Production Unit
STANDARDS:	**FCC Part 2 (Section 2.1091)** **FCC OET Bulletin 65, Supplement C (01-01)** **KDB 447498 D01 General RF Exposure Guidance v06** IEEE C95.1

The above equipment has been tested by **BV 7Layers Communications Technology (Shenzhen) Co. Ltd** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : _____ , **DATE:** Aug. 02, 2019
(Alex Chen / Engineer)

APPROVED BY : _____ , **DATE:** Aug. 02, 2019
(Luke Lu / Manager)

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	GANKER EX BATTLE ROBOT	
MODEL NAME	G00500	
NOMINAL VOLTAGE	7.4Vdc 2000mAh(Li-ion, battery)	
OPERATING TEMPERATURE RANGE	0 ~ 45℃	
MODULATION TYPE	**WLAN**	64QAM, 16QAM, QPSK, BPSK for OFDM
OPERATING FREQUENCY	**WLAN**	5180 ~ 5240MHz, 5745 ~ 5805MHz for 802.11a/n(HT20)
ANTENNA GAIN	PCB Antenna with 1.07dBi gain	
HW VERSION	V4.0	
SW VERSION	V0.32	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable: non-shielded, detachable, 0.3meter	

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT was powered by the following battery:

BATTERY	
BRAND:	GANKER EX
MODEL:	54959P
POWER RATING:	DC 7.4V, 2000mAh

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3 RF EXPOSURE

3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm^2)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3.2 MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

3.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3.4 CONDUCTED POWER

TUNE-UP POWER TABLE

Band	Frequency (MHz)	Operating Mode	Tune-Up Power And Tolerance (dBm)
WIFI 5G B1	5180~5240	11a	18.5
WIFI 5G B4	5745~5805	11a	18.5

CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Tune-up Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
WIFI 5G B1	5180~5240	11a	1.07	18.5	90.573	0.018	1.00	PASS
WIFI 5G B4	5745~5805	11a	1.07	18.5	90.573	0.018	1.00	PASS

--END--