

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Report Template Version: V03

Report Template Revision Date: Mar.1st, 2017

Telephone: +86-755-26648640 Fay: +86-755-26648637

Website: www.cga-cert.com

RF Exposure Evaluation Report

CQASZ20180700002E-02 Report No.:

Applicant: Weccan Industrial Limited

Address of Applicant: Rm209, 2/F, Building W1-A, No.34 Gaoxin South 4th Street, Hi-Tech Industrial

Park, Nanshan District, Shenzhen City, China

DONGGUAN ADOREE INDUSTRIAL LIMITED Manufacturer:

Address of Building 10, Fuxing Industrial Area, Fucing Road, Xiagang Village, Changan

Manufacturer: Town, Dongguang City, Guangdong Province China.

DONGGUAN ADOREE INDUSTRIAL LIMITED Factory:

Address of Factory: Building 10, Fuxing Industrial Area, Fucing Road, Xiagang Village, Changan

Town, Dongguang City, Guangdong Province China.

Equipment Under Test (EUT):

Product: 2.4G RC DRONE WITH WIFI CAMERA

Model No.: **DRW618**

Added Model No.: Please see page 2 **Brand Name:** SKY RIDER, WECCAN FCC ID: Z3CDRW618F51 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-06-28 to 2018-07-10

Date of Issue: 2018-07-10

Test Result: PASS*

Tested By:

(Aaron Ma)

Reviewed By:

(Jack Ai)

Approved By:

Standards:

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: CQASZ20180700002E-02

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180700002E-02	Rev.01	Initial report	2018-07-10

All model: DRW618 SG-F51, SG-F1, SG-F2, SG-F3, SG-F4, SG-F5, SG-F6, SG-F7, SG-F8, SG-F9, SG-F10, SG-F11, SG-F12, SG-F13, SG-F14, SG-F15, SG-F16, SG-F17, SG-F18, SG-F19, SG-F20, SG-F21, SG-F22, SG-F23, SG-F24, SG-F25, SG-F26, SG-F27, SG-F28, SG-F29, SG-F30, SG-F31, SG-F32, SG-F33, SG-F34, SG-F35, SG-F36, SG-F37, SG-F38, SG-F39, SG-F40, SG-F41, SG-F42, SG-F43, SG-F44, SG-F45, SG-F46, SG-F47, SG-F48, SG-F49, SG-F50, SG-F52, SG-F53, SG-F54, SG-F55, SG-F56, SG-F57, SG-F58, SG-F59, SG-F60, SG-F61, SG-F62, SG-F63, SG-F64, SG-F65, SG-F66, SG-F67, SG-F68, SG-F69, SG-F70, SG-F71, SG-F72, SG-F73, SG-F74, SG-F75, SG-F76, SG-F77, SG-F78, SG-F79, SG-F80, SG-F81, SG-F82, SG-F83, SG-F84, SG-F85, SG-F86, SG-F87, SG-F88, SG-F89, SG-F90, SG-F91, SG-F92, SG-F93, SG-F94, SG-F95, SG-F96, SG-F97, SG-F98, SG-F99, SG-F90, SG-F91, SG-F92, SG-F93, SG-F94, SG-F95, SG-F96, SG-F97, SG-F98, SG-F99, SG-F90, SG-F91, SG-F92, SG-F93, SG-F94, SG-F95, SG-F96, SG-F97, SG-F98, SG-F99, SG-F90, SG-F91, SG-F97, SG-F98, SG-F99, SG-F90, SG-F91, SG-F97, SG-F98, SG-F99, SG-F9

Only the model DRW618 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



Report No.: CQASZ20180700002E-02

2 Contents

	P _i	age	
1	VERSION	2	
2	CONTENTS	3	
3	GENERAL INFORMATION	4	
	3.1 CLIENT INFORMATION	4	
	3.2 GENERAL DESCRIPTION OF EUT		
-	4.1 RF Exposure Compliance Requirement		
	4.1.1 Standard Requirement	5	
	4.1.2 Limits	5	
	4.1.3 EUT RF Exposure	5	,



Report No.: CQASZ20180700002E-02

3 General Information

3.1 Client Information

Applicant:	WECCAN INDUSTRIAL LIMITED	
Address of Applicant:	Rm209, 2/F, Building W1-A, No.34 Gaoxin South 4th Street, Hi-Tech Industrial Park, Nanshan District, Shenzhen City, China	
Manufacturer:	DONGGUAN ADOREE INDUSTRIAL LIMITED	
Address of Manufacturer:	Building 10, Fuxing Industrial Area, Fucing Road, Xiagang Village, Changan Town, Dongguang City, Guangdong Province China.	
Factory:	DONGGUAN ADOREE INDUSTRIAL LIMITED	
Address of Factory:	Building 10, Fuxing Industrial Area, Fucing Road, Xiagang Village, Changan Town, Dongguang City, Guangdong Province China.	

3.2 General Description of EUT

_		
Product Name:	2.4G RC DRONE WITH WIFI CAMERA	
Model No.:	Please see page 2	
Trade Mark :	SKY RIDER, WECCAN	
Hardware Version:	V1.0	
Software Version:	V1.0	
Frequency Range:	2447 MHz ~ 2477MHz	
Modulation Type:	GFSK	
Number of Channels:	15(declared by the client)	
Sample Type:	Portable production	
Test Software of EUT:	RF test (manufacturer declare)	
Antenna Type:	Integral antenna	
Antenna Gain:	1.3dBi	
Power Supply:	6x AA battery, DC9V	

Report No.: CQASZ20180700002E-02

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 ≤ 50 mm and
for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation
distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

eirp = pt x gt = $(E \times d)^2/30$ where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

 $E = electric field strength in V/m, ---10^{((dB\mu V/m)/20)}/10^6$,

d = measurement distance in meters (m)---3m,

So pt = $(E \times d)^2/30 / gt$

The worst case (refer to report CQASZ20180700002E-01) is below:

For 2.4G wireless:

Field strength = 89.73dB μ V/m @3m Ant. gain 1.3dBi; so Ant numeric gain=1.35 So pt={[$10^{(89.73/20)}/10^6$ x3] 2 /30 /1.35}x1000mW =0.209mW So (0.209mW/5mm)x \checkmark 2.463GHz = 0.066,

0.066<3.0 for 1-g SAR

So the SAR report is not required.