



**BUREAU
VERITAS**

Test Report No.: FS151224N002-1

RF EXPOSURE REPORT

Applicant	SHENZHEN SMART DRONE UAV CO., LTD.
Address	6F East Block Building 1 Zhongyuntai Technology Industry Park, Tangtou RD.1, Shiyan Street Bao'an District SZ China



Manufacturer or Supplier	SHENZHEN SMART DRONE UAV CO., LTD.
Address	6F East Block Building 1 Zhongyuntai Technology Industry Park, Tangtou RD.1, Shiyan Street Bao'an District SZ China
Product	Mirage
Brand Name	SMD
Model	10001
Additional Model & Model Difference	10002, 10003
Date of tests	Feb. 05, 2016 ~ Mar. 01, 2016

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Chris Chen Manager / EMC Department
	 Date: Mar. 03, 2016

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS151224N002-1	Original release	Mar. 03, 2016

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1. CERTIFICATION

FCC ID:	2AHXW-SMD-Q401
PRODUCT:	Mirage
BRAND NAME:	SMD
MODEL NO.:	10001
ADDITIONAL NO.:	Engineering Sample
TEST SAMPLE:	Shenzhen Smart Drone UAV Co., Ltd.
APPLICANT:	Mar. 03, 2016
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



2. RF EXPOSURE LIMIT

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. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

4. 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**.



5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3.0	FPCB Antenna
Chain 1	3.0	FPCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
5180~5240	36.39	3.0	20	0.01444	1.0
5745~5825	35.40	3.0	20	0.01405	1.0

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