



**BUREAU
VERITAS**

Test Report No.: FS170322N051

RF EXPOSURE REPORT

Applicant	Shenzhen Baojia Battery Technology Co.,Ltd.
Address	Block A, Yonghe Road, Tongfuyu Industrial Zone Heping, Fuyong, Baoan, Shenzhen, 518103 China

Manufacturer or Supplier	Shenzhen Baojia Battery Technology Co.,Ltd.
Address	Block A, Yonghe Road, Tongfuyu Industrial Zone Heping, Fuyong, Baoan, Shenzhen, 518103 China
Product	PLAYBULB candle
Brand Name	MIPOW
Model	BTL305
Additional Model & Model Difference	BTL305ES
Date of tests	Mar. 22, 2017 ~ Apr. 19, 2017

☒ **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 Glyn He
Supervisor / EMC Department

Date: Apr. 24, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170322N051	Original release	Apr. 24, 2017

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1. CERTIFICATION

FCC ID:	SL7BTL305
PRODUCT:	PLAYBULB candle
BRAND NAME:	MIPOW
MODEL NO.:	BTL305
ADDITIONAL NO.:	BTL305ES
TEST SAMPLE:	Engineering Sample
APPLICANT:	Shenzhen Baojia Battery Technology Co.,Ltd.
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	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
2402-2480	-2	+2	-4	0

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BTLE(GFSK)	2402	-0.83

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	0	3	20	0.0004	1.0

--- END ---