

Maximum Permissible Exposure Evaluation FCC ID: 2AJOS-GU10

1. Client Information

Applicant	:	GUANGZHOU ADVANSOLUTION TECHNOLOGY CO., LTD			
Address		RM801, ZHONGMING BULIDING, LONGKOU WEST RD, TIANHE DISTRICT, GUANGZHOU, CHINA			
Manufacturer		GUANGZHOU ADVANSOLUTION TECHNOLOGY CO., LTD			
Address	1	RM801, ZHONGMING BULIDING, LONGKOU WEST RD, TIANHE DISTRICT, GUANGZHOU, CHINA			
2. General D	es	cription of EUT			
EUT Name		GU10 LED SPOT LIGHT			
Models No.	:	VKB-004-GU10, KP-GU10			
Brand Name	:	KASA			
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.			
AL AL		Operation Frequency: Bluetooth 4.0(BLE): 2402MHz~2480MHz			
ALL DE		Number of Channel:	Bluetooth 4.0(BLE): 40 channels see note(3)		
Product		RF Output Power:	7.062 dBm Conducted Power		
Description		Antenna Gain:	2 dBi PCB Antenna		

		Modulation Type:	GFSK	
		Bit Rate of Transmitter:	1Mbps(GFSK)	
Power Rating	:	AC 85~240V, 50/60Hz	million multi-	
Connecting I/O Port(S)	·• 7	Please refer to the User's Manual		
Note: More detail inform	nati	on about Equipment, please refer	to Llear's manual more information about the RE please	

Note: More detail information about Equipment, please refer to User's manual, more information about the RF, please refer to test report.



MPE Calculations

1. Antenna Gain:

Ant.	Brand	Model Name	Antenna Type	Ga	ain (dBi)	<u> </u>
1	N/A	N/A	PCB Ant.		2	

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

S=(PG)/4πR²

Where

S: power density

P: max tune up power

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

Worst Maximum MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
GFSK		2402	7.062	7±1	8	2.0	20	0.00200
	1	2442	6.791	6±1	7	2.0	20	0.00158
	-	2480	6.907	6±1	7	2.0	20	0.00158

Note:

(1) N_{TX}= Number of Transmit Antennas

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)
300-1,500	F/1500
1,500-100,000	1.0

For : 2.4G: 2402MHz~2480MHz

MPE limit S: 1 mW/ cm²

The MPE is calculated as $0.00200 \text{mW} / \text{cm}^2 < \text{limit 1 mW} / \text{cm}^2$.



So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091

(b)The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

-----END OF REPORT-----