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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 : RM801, ZHONGMING BULIDING, LONGKOU WEST RD, TIANHE

DISTRICT, GUANGZHOU, CHINA

2. General Description 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.				
		Operation Frequency: Bluetooth 4.0(BLE): 2402MHz~2480MHz				
		Number of Channel: Bluetooth 4.0(BLE): 40 channels s				
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				
Connecting I/O Port(S)	:	Please refer to the User's Manual				

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

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MPE Calculations

1. Antenna Gain:

Ant.	Brand	Model Name	Antenna Type	Gain (dBi)
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

 $S=(PG)/4\pi R^2$

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	1	2402	7.062	7±1	8	2.0	20	0.00200
		2442	6.791	6±1	7	2.0	20	0.00158
		2480	6.907	6±1	7	2.0	20	0.00158

Note:

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 0.00200mW / cm² < limit 1 mW / cm².

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

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



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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----