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Maximum Permissible Exposure Evaluation

FCC ID: SJ8BC240

1. Client Information

Applicant		RDI Technology (Shenzhen) Co., Ltd	
Address	÷	101 to 401, Building 1, and Building 2, No. 7 Yongyue Road,East Baishixia, Fuyong, Baoan, Shenzhen, PRC	
Manufacturer		RDI Technology (Shenzhen) Co., Ltd	
Address	101 to 401, Building 1, and Building 2, No. 7 Yongyue Road, East Baishixia, Fuyong, Baoan, Shenzhen, PRC		

2. General Description of EUT

	1:) A ('			
EUT Name		Wireless Camera			
Models No.		BC240			
Model Different		N/A			
Sample ID		20201215-15-1# & 20201215-15-2#			
0.0777		Operation Frequency:	2408MHz~2468MHz		
Product	₽.	RF Output Power:	19.129dBm		
Description		Antenna Gain:	2dBi Dipole Antenna		
	10	Modulation Type:	GFSK (4Mbps)		
Power Rating	1	DC 5V from Adapter (Model:CS6F050100FUF) Input: AC 100-240V~50/60Hz, 200mA Output: DC 5.0V, 1.0A			
Software Version		N/A			
Hardware Version	1	N/A			
Remark					

TB-RF-075-1. 0



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MPE Calculations for WIFI

1. Antenna Gain:

Monopole Antenna: 2dBi.

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: power input to the antenna

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:

Mode	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]
2408	19.129	19±1	20	2	20	0.0315
2440	18.816	19±1	20	2	20	0.0315
2468	18.447	19±1	20	2	20	0.0315



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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 GFSK:2408~2468 MHz MPE limit S: 1mW/ cm²

The MPE is calculated as 0.0315mW/cm² < limit 1mW/cm². 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----