

Report No.: TB-MPE184793

Page: 1 of 3

Maximum Permissible Exposure Evaluation

FCC ID: SJ8-M724

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.China.			
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.China.			

2. General Description of EUT

2. Octicial D	<u> </u>	cription of Lot			
EUT Name		Wireless monitor			
Models No.	:	M724			
Model Different	:				
Brand Name	:	CasaCam			
Product Description		Operation Frequency:	802.11b/g: 2412MHz~2462MHz		
		Number of Channel:	802.11b/g:11 channels		
		RF Output Power:	17.11dBm (Max)		
		Antenna Gain:	Dipole antenna, Maximum Gain: 2.0dBi		
Power Rating		Adapter: CS12N050200FUF Input: 100-240V~, 50/60Hz 500mA Output: DC 5V, 2.0A DC 3.7V by 2000mAh Rechargeable Li-ion Battery			
Software Version	:	N/A			
Hardware Version	:	N/A			
Connecting I/O Port(S)		Please refer to the User's Manual			
Remark	:	the MPE report used the EUT-2(20211014-10-2#).			



Report No.: TB-MPE184793

Page: 2 of 3

MPE Calculations for WIFI

1. Antenna Gain:

Dipole Antenna: 2.0dBi.

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:

				2.4G WiF	i 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]
		2412	16.04	16±1	17	2	20	0.0158
802.11b	1	2437	15.97	15±1	16	2	20	0.0126
	M	2462	16.24	16±1	17	2	20	0.0158
		2412	17.10	17±1	18	2	20	0.0199
802.11g	1	2437	16.94	16±1	17	2	20	0.0158
		2462	17.11	17±1	18	2	20	0.0199

Note:

N_{TX}= Number of Transmit Antennas

RF Output power specifies that Maximum Conducted Peak Output Power.



Report No.: TB-MPE184793

Page: 3 of 3

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 WIFI: 2412~2462MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0199***mW* / *cm*² < *limit* 1*mW* / *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.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----END OF REPORT----