

Report No.: TB-MPE184799

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Maximum Permissible Exposure Evaluation

FCC ID: SJ8-M554

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

Z. General D	C3	cription of EUT				
EUT Name		Wireless monitor				
Models No.	:	M554				
Model Different						
Brand Name	:					
	V	Operation Frequency:	802.11b/g: 2412MHz~2462MHz			
Product Description		Number of Channel:	802.11b/g:11 channels			
		RF Output Power:	17.64dBm (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 3500mAh 12.95Wh Rechargeable Li-ion Battery				
Software Version	:	****				
Hardware Version	:	N/A				
Connecting I/O Port(S)	9	Please refer to the User's Manual				
Remark	Ŀ	the MPE report used the EUT-2(20211014-10-2#).				



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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 тх	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]
	(1)	2412	17.20	17±1	18	2	20	0.0199
802.11b	1	2437	17.23	17±1	18	2	20	0.0199
	18	2462	17.50	17±1	18	2	20	0.0199
		2412	17.63	17±1	18	2	20	0.0199
802.11g	1	2437	17.43	17±1	18	2	20	0.0199
		2462	17.64	17±1	18	2	20	0.0199

Note:

N_{TX}= Number of Transmit Antennas

RF Output power specifies that Maximum Conducted Peak Output Power.



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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 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----