

Maximum Permissible Exposure Evaluation

FCC ID: 2AUPF-WF173

1. Client Information

Applicant	:	Maxtalent Industrial Limited
Address	:	25E,King Palace Plaza,55 King Yip Street, Kwun Tong,Kowloon, HK
Manufacturer	:	Shenzhen Qiuyu Electronic Co., Ltd
Address	:	F3,E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, Xixiang town, Ban'an District, Shenzhen, China

2. General Description of EUT

EUT Name	:	KODAK 17 Inch WIFI Photo Frame / Wi-Fi Enabled	
Models No.	:	WF173,WF133,WF141,WF151,WF156	
Model Different	:	All these models are in the same PCB, layout and electrical circuit, only the outer color is different.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		RF Output Power:	802.11b: 14.62dBm 802.11g: 13.54dBm 802.11n (HT20): 13.70dBm 802.11n (HT40): 10.98dBm
		Antenna Gain:	1.21dBi PIFA Antenna
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)
Power Supply	:	Adapter(J361-1203000I): Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 12V, 3000mA	
Software Version	:	V2.1.40	
Hardware Version	:	V1.0.3	
Connecting Port(S)	I/O :	Please refer to the User's Manual	

TB-RF-075-1.0

MPE Calculations for WIFI

1. Antenna Gain:

PIFA Antenna: 1.21dBi.

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]
802.11b	14.62	14±1	15	1.21	20	0.00831
802.11g	13.54	13±1	14	1.21	20	0.00660
802.11n (HT20)	13.70	13±1	14	1.21	20	0.00660
802.11n (HT40)	10.98	11±1	12	1.21	20	0.00417

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/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For 802.11b/g/n(HT20):2412~2462 MHz

802.11n(HT40): 2422MHz~2452MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as $0.00831\text{mW} / \text{cm}^2 < \text{limit } 1\text{mW} / \text{cm}^2$. So, the device compliance the RF Exposure requirement.

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.

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