

RF Exposure Evaluation

FCC ID: 2AUPF-RWF-108

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, Bao'an district, Shenzhen, China

2. General Description of EUT

EUT Name	:	KODAK 10-Inch Touchscreen Digital Photo Frame / Wi-Fi Enabled	
Models No.	:	RWF-108, RCF-106, CF802, CF102, CF106, CF103	
Model Different	:	All these models are in the same PCB, layout and electrical circuit, the only difference is Appearance.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
		RF Output Power:	802.11b: 13.63dBm 802.11g: 13.39dBm 802.11n (HT20):13.68dBm
		Antenna Gain:	1.21dBi PIFA Antenna
Power Supply	:	Input: AC 100~240V, 50/60Hz Output: DC 5V, 2A DC 3.7V by Li-ion Battery.	
Software Version	:	android4.4	
Hardware Version	:	V1.1	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note: More test information about the EUT please refer the RF Test Report.

MPE Calculations for WIFI

1. Antenna Gain:

PCB 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	13.63	13±1	14	1.21	20	0.00660
802.11g	13.39	13±1	14	1.21	20	0.00660
802.11n (HT20)	13.68	13±1	14	1.21	20	0.00660

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

MPE limit S: 1mW/ cm²

The MPE is calculated as $0.00660 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. 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.

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