

# RF Exposure Evaluation

## FCC ID: 2AJ8T-AWDMPF8

### 1. Client Information

<b>Applicant</b>	: Shen Zhen JoyHong Technology Co., Ltd
<b>Address</b>	: Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China
<b>Manufacturer</b>	: Shen Zhen JoyHong Technology Co., Ltd
<b>Address</b>	: Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China

### 2. General Description of EUT

<b>EUT Name</b>	:	8inch wifi cloud digital photo frame	
<b>Models No.</b>	:	AWDMPF8BB, JD081E-Q23	
<b>Model Difference</b>	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
<b>Product Description</b>	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
		RF Output Power:	802.11b: 8.47 dBm 802.11g: 8.69 dBm 802.11n (HT20): 8.91 dBm
		Antenna Gain:	0.5 dBi FPC Antenna
<b>Power Supply</b>	:	DC Voltage supplied from Switching Adapter	
<b>Power Rating</b>	:	AC/DC Adapter (YNQX12T050200UL) Input: AC 100~240V, 50/60Hz, 0.35A Output: DC 5V, 2.0A	
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual	

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

## SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance  $\leq 5$  mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}]} \leq 3.0 \text{ for 1-g SAR}$$

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}]} \leq 7.5.0 \text{ for 10-g SAR}$$

## 2.Calculation:

Test separation: 5mm						
WiFi Mode(802.11b)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.15	9±0.5	9.5	8.913	2.768	3.0
2.437	9.21	9±0.5	9.5	8.913	2.783	3.0
2.462	9.34	9±0.5	9.5	8.913	2.797	3.0
WiFi Mode(802.11g)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.95	9±0.5	9.5	8.913	2.768	3.0
2.437	8.86	9±0.5	9.5	8.913	2.783	3.0
2.462	8.75	9±0.5	9.5	8.913	2.797	3.0
WiFi Mode(802.11n(HT20))						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.84	9±0.5	9.5	8.913	2.768	3.0
2.437	8.95	9±0.5	9.5	8.913	2.783	3.0
2.462	8.81	9±0.5	9.5	8.913	2.797	3.0

So standalone SAR measurements are not required.

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