

# RF Exposure Evaluation

## FCC ID: 2AJ8T-AWDMPF8

### 1. Client Information

**Applicant** : Shen Zhen JoyHong Technology Co., Ltd  
**Address** : Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China  
**Manufacturer** : Shen Zhen JoyHong Technology Co., Ltd  
**Address** : 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<br>802.11g: 8.69 dBm<br>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)<br>Input: AC 100~240V, 50/60Hz, 0.35A<br>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:

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

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

-----END OF REPORT-----