

RF Exposure Evaluation

FCC ID: 2AJ8TJT081G-Q23

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

EUT Name	:	8inch wifi cloud digital photo frame	
Models No.	:	JT081G-Q23, AWDMPF208F	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz
		Number of Channel:	802.11b/g/n(HT20): 11 channels see note(3)
		RF Output Power:	802.11b: 9.09 dBm 802.11g: 8.88 dBm 802.11n (HT20): 7.94 dBm
		Antenna Gain:	0.5 dBi PIFA Antenna
		Modulation Type:	802.11b: CCK, QPSK, BPSK 802.11g: OFDM 802.11n: OFDM
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply	:	DC Voltage supplied from Switching Adapter.	
Power Rating	:	Input : AC 100-240V~50/60Hz 0.3A Output: DC 5V-----1.5A	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

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 ≤ 5 mm are determined by:

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

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

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 (mw)	Calculation Value	Threshold Value
2.412	9.09	±0.5	9.099	2.826	3.0
2.437	8.97	±0.5	8.851	2.763	3.0
2.462	8.68	±0.5	8.279	2.598	3.0
WiFi Mode(802.11g)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.88	±0.5	8.670	2.693	3.0
2.437	8.77	±0.5	8.453	2.639	3.0
2.462	8.85	±0.5	8.610	2.702	3.0
WiFi Mode(802.11n(HT20))					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	7.94	±0.5	6.982	2.169	3.0
2.437	7.86	±0.5	6.855	2.140	3.0
2.462	7.56	±0.5	6.397	2.008	3.0

So standalone SAR measurements are not required.

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