

RF Exposure Evaluation Declaration

Product Name : Wireless Microphone
Model No. : WMIC2
FCC ID. : ZYJ-DukaneWMIC2

Applicant : EVEREST Display Inc.

Address : 4F, No. 1, Li-Hsin Rd. 6, Science Park, 300.
Hsinchu, Taiwan

Date of Receipt : 2013/04/01
Date of Declaration : 2013/04/17
Report No. : 134088R-RF-US-Exp
Report Version : V1.0



The declaration results relate only to the samples calculated.

The declaration shall not be reproduced except in full without the written approval of QuieTek Corporation.

1. RF Exposure Evaluation

1.1. Limits

According to 1.1307(b)(1), system operating under the provisions of this section shall be operated in manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

No SAR required for output power as below thresholds:

f = GHz, d = Distance (between radiated device and the body)

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

Where $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest mW and mm before calculation.

Ex: $f = 2.402\text{GHz}$, Output Power threshold = $(\text{max power}/5) \times [\sqrt{f_{(\text{GHz})}}]$
 $= (6.89/5) \times 1.54$
 $= 2.1 \leq 3.0$

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	Wireless Microphone
Test Mode	Mode 1: Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is -4.24dBi in linear scale.

Output Power into Antenna

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	EIRP (mW)	Output Power threshold (mW) (d <0.5cm)
1	2409	0.0879	0.2851	9.68
20	2447	0.1941	0.2333	9.62
40	2476	0.0731	0.1941	9.55

Conclusion:

No SAR evaluation required, since transmitter output power is below threshold.