RF Exposure Evaluation declaration

Product Name : Full HD Video Wireless Receiver Module

Model No. : ZRF-32100

FCC ID : YG7ZRF32100

Applicant : ZINWELL CORPORATION

Address : 7F 512, Yuan Shan Road, Chung Ho City, Taipei Hsien 235, Taiwan

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The declaration results relate only to the samples calculated.

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range | Electric Field | Magnetic Field | Power Density | Average Time | | | |
|---|----------------|----------------|---------------|--------------|--|--|--|
| (MHz) | Strength (V/m) | Strength (A/m) | (mW/cm^2) | (Minutes) | | | |
| (A) Limits for Occupational/ Control Exposures | | | | | | | |
| 300-1500 | | | F/300 | 6 | | | |
| 1500-100,000 | | | 5 | 6 | | | |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | | | | |
| 300-1500 | | | F/1500 | 6 | | | |
| 1500-100,000 | | | 1 | 30 | | | |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm² Pout = output power to antenna in mW G = gain of antenna in linear scale Pi = 3.1416 R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm^2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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 | : | Full HD Video Wireless Receiver Module |
|-----------|---|--|
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | No.3 OATS |

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.47dBi in logarithm scale.

802.11n - 40BW (5270~5670MHz)

Output Power Into Antenna & RF Exposure Evaluation Distance (3.47dBi):

| Channel | Frequency (MHz) | Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm2) |
|---------|-----------------|---------------------------------|--|
| 54 | 5270 | 12.8300 | 0.0085 |
| 62 | 5310 | 12.8500 | 0.0085 |
| 102 | 5510 | 12.7900 | 0.0084 |
| 110 | 5550 | 12.8200 | 0.0085 |
| 134 | 5670 | 12.8500 | 0.0085 |