

RF Exposure Evaluation declaration

Product Name : Wire-to-Air

Model No. : AWS8212, AWS821T, AWS822R,

AM8212, AM821T, AM822R

FCC ID. : NGVAWS822R

Applicant: AIRWAVE Technologies Inc.

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Report Version : V1.0

The declaration results relate only to the samples calculated.

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1. RF Exposure Evaluation

1.1. Limits

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

No SAR test is required as the output power of this device is less than thresholds as below: f = GHz, d = Distance (between radiated device and the body)

When d < 2.5cm, Output Power = (60/f) mW

Ex: f = 2.4GHz, Output Power = (60/2.4) = 25mW (13.98dBm)

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	Wire-to-Air
Test Mode	Transmit
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.14dBi or 1.81 in linear scale.

Output Power into Antenna

Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	EIRP (mW)	Output Power threshold (mW) (d < 2.5cm)
01	2404.4	10.38	21.39	24.95
08	2443.6	11.63	23.96	24.55
12	2476.7	11.46	23.62	24.23

Conclusion:

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