

US Tech Test Report:  
FCC ID:  
IC:  
Test Report Number:  
Issue Date:  
Customer:  
Model:

FCC Part 15 Certification/ RSS 210  
HSW-DNT24  
4492A-DNT24  
15-0010  
January 19, 2015  
RFM  
DNT24

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## Maximum Public Exposure to RF (MPE)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm<sup>2</sup> at a distance, **d**, of 20 cm from the EUT.

Therefore, for:

**Measured maximum output power: 17.71 dBm**

**Highest Gain Chip Antenna = 1.7 dBi**

Peak Power (Watts) = .05902 (Manufacturer's claimed highest output power)  
Gain of Transmit Antenna = 1.7 dBi = 1.48, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG/ 4\pi d^2) = \text{EIRP}/4A = (.05902*1.48)/4*\pi*0.2*0.2 \\ &= .0873/.5024 = .1738 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.0174 \text{ mW/cm}^2 \end{aligned}$$

which is < less than 1.0 mW/cm<sup>2</sup>

**Highest Gain Patch Antenna = 12 dBi**

Peak Power (Watts) = .05902 (Manufacturer's claimed highest output power)  
Gain of Transmit Antenna = 12 dBi = 15.849, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG/ 4\pi d^2) = \text{EIRP}/4A = (.05902*15.849)/4*\pi*0.2*0.2 \\ &= .9354/.5024 = 1.8619 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= .18619 \text{ mW/cm}^2 \end{aligned}$$

which is < less than 1.0 mW/cm<sup>2</sup>

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### Highest Gain Omni Antenna = 12 dBi

Peak Power (Watts) = .05902 (Manufacturer's claimed highest output power)  
Gain of Transmit Antenna = 12 dBi = 15.849, numeric (from Table 4 of Test Report)  
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG/ 4\pi d^2) = \text{EIRP}/4A = (.05902*15.849)/4*\pi*0.2*0.2 \\ &= .9354/.5024 = 1.8619 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= .18619 \text{ mW/cm}^2 \end{aligned}$$

which is < less than 1.0 mW/cm<sup>2</sup>