

July 26, 2012

Attn: Application Examiner, Reviewing Engineer

The maximum TX output power of the Spectrum 700 Path1/700 Path 2 SRAU from the EUT antenna port for the 700 path 2 band is 21.11 dBm. The maximum gain antenna that could be for use with the EUT has a gain of 13.66 dBi.

From the following equations:

Peak Output of EUT at antenna Connector (dBm) + Gain of Antenna (dBd) = Peak TX Power (dBm) ERP

 $10*Log_{10}(Peak TX Power * E^3 Watts) = Peak TX Power (dBm) ERP$

21.11 dBm + 13.66 dBi = 34.77 dBm EIRP

34.77 dBm EIRP = 3.0 Watts EIRP

To convert to EIRP use the relation: EIRP = ERP X 1.64. (2.55 EIRP = 1.56 ERP) To convert to dBi to dBd use the relation: dBi = dBd + 2.14. (7.14 dBi = 5.0 dBd)

Power Density = EIRP(mW)/($4*\pi*r^2$)

 $0.1491 \text{ mW/cm}^2 = (129.1)(23.22)/(4*\pi*40^2)$

Per OET 65:

Maximum Permissible Exposure is Freq. (MHz)/1500 = MPE mW/cm^2 737.0 MHz/1500= 0.4913 mW/cm^2

In addition, the following statement is in our installation manual:

To comply with Maximum Permissible Exposure (MPE) requirements, antennas must be installed to provide at least 40 centimeters of separation from all persons per FCC 47CFR, Part 2.1091 and IC RSS-102, Section 2.5.2.

Sincerely,

Joshua J. Wittman Compliance Engineer Tele: 952 403-8322

Fax: 952 403-8858

Email: joshua.wittman@te.com