§ 15.247(b) Peak Power Output and RF Exposure

RF Exposure Requirements: §1.1307(b)(1) and §1.1307(b)(2): Systems operating under the

provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of

the Commission's guidelines.

RF Radiation Exposure Limit: \$1.1310: As specified in this section, the Maximum Permissible

Exposure (MPE) Limit shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Sec. 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Sec. 2.1093 of

this chapter.

Test Results: The EUT was compliant with the requirements of this section. The 4.9 GHz

antenna is not co-located with any of the other antennas. .

G = 6 dBi = 3.98

P = 1800 mW

R = 30 cm

 $S = PG/4\pi R^2$

(1800 mW)(3.98)

 $4\pi(30)^2$

 $S1 = 0.633 \text{ mW/cm}^2$

Therefore, the EUTs meet the Uncontrolled Exposure limit at 30 cm.

Test Engineer(s): Dusmantha Tennakoon