FCC ID: 2AE3JLB2

RF EXPOSURE

1.1. The Requirement

FCC part 2(Section 2.1091)

FCC OET Bulletin 65, Supplement C(01-01)

IEEE C95.1

System 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. See Section 15.247(b)(4) and Section 1.1307(b)(1)

1.2.Limit For Maximum Permissible Exposure (MPE)

Limits for General Population/ Uncontrolled Exposure

Frequency	Electric Field	Magnetic Field	Power Density (S)	Averaging Time	
Range	Strength (E)	Strength (H)		$ E ^2, H ^2$ or S	
(MHz)	(V/m)	(A/m)	(mW/cm ²)	(minutes)	
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

F = frequency in MHz, * Plane-wave equivalent power density

1.3.MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

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

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic

radiator

R=distance to the center of radiation of the antenna

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the Antenna is 2dBi, the RF power density can be obtained.

1.4.TEST RESULTS

Maximum measured transmitter power

For WiFi Worst case mode

Test	Output	Target	Target	Antenna	Power	Power	Test
Frequency	Power	power	power	Gain	Density	Density	Results
(MHz)	(dBm)	(dBm)	(mW)	(Numeric)	At 20 cm	Limit	
					(mW/cm^2)	(mW/cm^2)	
2412	15.83	16±1	50.119	1.585	0.016	1.000	Pass
2437	15.73	16±1	50.119	1.585	0.016	1.000	Pass
2462	16.15	16±1	50.119	1.585	0.016	1.000	Pass

WiFi Antenna Gain= 2dBi

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure.

1.5.FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, Human proximity to the antenna shall not be less than 20cm(8 inches) during normal operation. Proposed RF exposure safety information to include in User's Manual.