# FCC ID : 2ANJP-ASL02

## 1. RF EXPOSURE

#### 1.1.The Requirement

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)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time $ E ^2$ , $ H ^2$ or S (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

Limits for General Population/ Uncontrolled Exposure

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 2.0 dBi, the RF power density can be obtained.

### **1.4.TEST RESULTS**

Maximum measured transmitter power

802.11B mode

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Output Power (mW)	Target power (dBm)	Antenna Gain (Numeric)	Power Density Limit (mW/cm <sup>2</sup> )	Power Density At 20 cm (mW/cm <sup>2</sup> )	Test Results
2412	20.00	18.71	74.302	$18 \pm 1$	1.585	1.000	0.0251	Pass
2437	20.00	17.96	62.517	$18 \pm 1$	1. 585	1.000	0.0251	Pass
2462	20.00	17.50	56.234	$18\pm1$	1. 585	1.000	0.0251	Pass

#### 802.11G mode

Test	Minimum	Output	Output	Target	Antenna	Power	Power	
Frequency	Separation	Power	Power	power	Gain	Density	Density	Test
(MHz)	Distance	(dBm)	(mW)	(dBm)	(Numeric)	Limit	At 20 cm	Results
	(cm)	(ubiii)	(111 vv)		(Numeric)	$(mW/cm^2)$	$(mW/cm^2)$	
2412	20.00	10.30	10.715	11 ±1	1.259	1.000	0.004	Pass
2437	20.00	10.60	11.482	11 ±1	1.259	1.000	0.004	Pass
2462	20.00	10.61	11.508	11 ±1	1.259	1.000	0.004	Pass

802.11N20	mode
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Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Output Power (mW)	Target power (dBm)	Antenna Gain (Numeric)	Power Density Limit (mW/cm <sup>2</sup> )	Power Density At 20 cm (mW/cm <sup>2</sup> )	Test Results
2412	20.00	10.43	11.041	11 ±1	1.259	1.000	0.004	Pass
2437	20.00	10.84	12.134	11 ±1	1.259	1.000	0.004	Pass
2462	20.00	11.11	12.912	11 ±1	1.259	1.000	0.004	Pass

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.