

1.1. Test Result of RF Exposure Evaluation

- . Product: Digital Entertainer Elite
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

Right Antenna(R): Printed Antenna, 4.2dBi (2.4GHz Band)

7.7dBi (5GHz Band)

Left Antenna (L): Printed Antenna, 3.9dBi (2.4GHz Band)

6.7dBi (5GHz Band)

1.1.2. EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

1.1.3. Output Power into Antenna & RF Exposure Evaluation Distance

(1) Modulation Standard: IEEE 802.11a (11Mbps), ANT-L

Test Date: Nov. 08, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
36	5180	12.73	0.017
44	5220	14.05	0.024
48	5240	14.63	0.027

(2) Modulation Standard: IEEE 802.11a (6Mbps), ANT-R

Test Date: Nov. 08, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
36	5180	13.72	0.028
44	5220	14.93	0.036
48	5240	15.24	0.039

(3) Modulation Standard: IEEE 802.11an (6.5Mbps), HT20

Test Date: Nov. 08, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
36	5180	13.64	0.027
44	5220	14.23	0.031
48	5240	14.00	0.029

(4) Modulation Standard: IEEE 802.11an (13.5Mbps), HT40

Test Date: Nov. 08, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm ²)
38	5190	14.24	0.031
46	5230	13.90	0.029

The MPE is calculated as $0.031 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

For 5150-5250MHz, the EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.