

## 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 802.11b (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 <sup>2</sup> )
01	2412	17.86	0.030
06	2437	19.55	0.044
11	2462	17.90	0.030

(2) Modulation Standard: IEEE 802.11b (11Mbps), 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 <sup>2</sup> )
01	2412	18.17	0.034
06	2437	19.78	0.050
11	2462	17.77	0.031

(3) Modulation Standard: IEEE 802.11g (6Mbps), 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 <sup>2</sup> )
01	2412	16.00	0.019
06	2437	17.90	0.030
11	2462	15.95	0.019

(4) Modulation Standard: IEEE 802.11g (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 <sup>2</sup> )
01	2412	15.87	0.020
06	2437	17.82	0.032
11	2462	16.15	0.022

(5) Modulation Standard: IEEE 802.11n (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 <sup>2</sup> )
01	2412	15.84	0.020
06	2437	15.91	0.020
11	2462	16.10	0.021

(6) Modulation Standard: IEEE 802.11n (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 <sup>2</sup> )
03	2422	15.23	0.017
06	2437	16.43	0.023
09	2452	15.80	0.020

(7) Modulation Standard: IEEE 802.11a (6Mbps), ANT-L

Test Date: Nov. 10, 2008      Temperature: 20      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
149	5475	18.32	0.063
157	5785	18.48	0.066
165	5825	18.18	0.061

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

Test Date: Nov. 10, 2008      Temperature: 20      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
149	5475	18.40	0.081
157	5785	18.37	0.080
165	5825	17.75	0.070

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

Test Date: Nov. 10, 2008      Temperature: 20      Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
149	5475	18.65	0.086
157	5785	18.09	0.075
165	5825	18.31	0.079

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

Test Date: Nov. 10, 2008

Temperature: 20

Humidity: 60%

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (S) (mW/cm <sup>2</sup> )
149	5755	18.39	0.081
157	5795	18.62	0.085

The MPE is calculated as  $0.086 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$ . So, RF exposure limit warning or SAR test are not required.

For 2412-2462 MHz, 5725-5825MHz, 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.