

1.1. Test Result of RF Exposure Evaluation

- . Product: Aruba RAP Multi-port Remote Access Point
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD
- . Test Mode: Normal Operation

1.1.1. Antenna Gain

- Antenna 1 : 2dBi (2.4GHz Band)
- : 2dBi(5Ghz Band)
- Antenna 2 : 2dBi (2.4GHz Band)
- : 2dBi(5Ghz Band)
- Antenna 3 : 2dBi (2.4GHz Band)
- : 2dBi(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) Test Date: Jan. 10, 2009 Temperature: 25 Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)			Power Density (S) (mW/cm ²)		
			Ant1	Ant2	Ant3	Ant1	Ant2	Ant3
802.11b (11Mbps)	01	2412	17.55	18.60	17.81	0.018	0.023	0.019
	06	2437	18.91	19.33	19.37	0.025	0.027	0.027
	11	2462	18.96	18.98	19.17	0.025	0.025	0.026
802.11g (54Mbps)	01	2412	16.29	17.42	17.30	0.013	0.017	0.017
	06	2437	18.24	18.00	18.12	0.021	0.020	0.020
	11	2462	17.80	17.80	18.16	0.019	0.019	0.021

(2) Test Date: Jan. 10, 2009 Temperature: 25 Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)				Power Density (S) (mW/cm ²)			
			Ant1	Ant2	Ant3	Total	Ant1	Ant2	Ant3	Total
802.11n, HT20 (104Mbps)	01	2412	15.86	17.01	16.54	21.27	0.012	0.016	0.014	0.042
	06	2437	15.93	16.44	16.50	21.07	0.012	0.014	0.014	0.040
	11	2462	15.67	16.60	16.15	20.93	0.012	0.014	0.013	0.039
802.11n, HT40 (108Mbps)	03	2422	16.02	17.01	16.81	21.41	0.013	0.016	0.015	0.044
	06	2437	16.26	16.80	16.90	21.43	0.013	0.015	0.015	0.044
	09	2452	16.33	16.95	16.45	21.36	0.014	0.016	0.014	0.043

(3)Test Date: Jan. 10, 2009

Temperature: 25

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)			Power Density (S) (mW/cm ²)		
			Ant1	Ant2	Ant3	Ant1	Ant2	Ant3
802.11a (54Mbps)	149	5745	17.23	17.41	17.21	0.017	0.017	0.017
	157	5785	17.05	17.22	17.02	0.016	0.017	0.016
	165	5825	17.21	17.09	17.17	0.017	0.016	0.016

Modulation Standard	Channel	Frequency (MHz)	Output Power to Antenna (dBm)				Power Density (S) (mW/cm ²)			
			Ant1	Ant2	Ant3	Total	Ant1	Ant2	Ant3	Total
802.11an, HT20 (104Mbps)	149	5745	17.05	17.19	17.26	21.94	0.016	0.017	0.017	0.049
	157	5785	17.20	17.21	17.10	21.94	0.017	0.017	0.016	0.049
	165	5825	16.68	17.40	17.20	21.88	0.015	0.017	0.017	0.049
802.11an, HT40 (108Mbps)	151	5755	17.32	17.02	17.38	22.01	0.017	0.016	0.017	0.050
	159	5795	17.31	17.01	17.31	21.98	0.017	0.016	0.017	0.050

The MPE is calculated as $0.050\text{mW} / \text{cm}^2 < \text{limit } 1\text{ mW} / \text{cm}^2$. 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.