

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	:	3dBi (2.4GHz Band)
	:	5dBi (5GHz Band)
Antenna 2	:	3dBi (2.4GHz Band)
	:	5dBi (5GHz Band)
Antenna 3	:	3dBi (2.4GHz Band)
	:	5dBi (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. 09, 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 (11Mbps)	36	5180	17.00	16.60	15.79	0.032	0.029	0.024
	44	5220	16.35	17.00	15.71	0.027	0.032	0.023
	48	5240	16.32	17.00	15.91	0.027	0.032	0.025

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)	36	5180	16.90	15.78	16.32	21.13	0.031	0.024	0.027	0.082
	44	5220	16.43	17.00	15.70	21.18	0.028	0.032	0.023	0.083
	48	5240	16.45	16.99	15.93	21.25	0.028	0.031	0.025	0.084
802.11an, HT40 (108Mbps)	38	5190	16.90	16.50	17.00	21.58	0.031	0.028	0.032	0.091
	42	5210	--	--	--	--	--	--	--	--
	46	5230	17.00	17.00	16.42	21.59	0.032	0.032	0.028	0.091

The MPE is calculated as $0.091\text{mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$. 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.