



Statement of compliance to Maximum Permissible Exposure (MPE)

Applicant : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Manufacturer : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Product Name : Wireless Sensor
Type/Model : LSIN0100

According to §2.1091, §2.1093 and §1.1307(b), systems 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 level in excess of the Commission's guidelines.

Date of issue: January 26, 2015

Prepared by:

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Approved by:

Daniel Zhao (Reviewer)



Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

As we can see from the test report 150101832SHA-001 & 150101832SHA-002 & 150101832SHA-003 & 150101832SHA-004 & 150101832SHA-005:

Bluetooth

Frequency band (MHz)	Power		Antenna Gain		R (cm)	S (mW/cm ²)	Limits (mW/cm ²)
	dBm	mW	dBi	(Numeric)			
2400 -2483.5	4.47	2.80	0.3	1.07	20	0.0006	1

Note: 1 mW/cm² from 1.310 Table 1

Wi-Fi

Frequency band (MHz)	Power		Antenna Gain		R (cm)	S (mW/cm ²)	Limits (mW/cm ²)
	dBm	mW	dBi	(Numeric)			
2400 -2483.5	19.38	86.70	2.3	1.70	20	0.0293	1
5150-5250	9.88	9.73	3.7	2.34	20	0.0045	1
5250-5350	9.65	9.23	3.7	2.34	20	0.0043	1
5470-5725	9.75	9.44	3.7	2.34	20	0.0044	1
5725-5850	9.86	9.68	3.7	2.34	20	0.0045	1

Note: 1 mW/cm² from 1.310 Table 1

For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v05r02,

The sum of the MPE ratios = 0.0006 / 1.0 + 0.0293 / 1.0 = 0.0299mW/cm²

This level is below the simultaneous transmission MPE test exclusion requirements (≤1.0).



FCC ID: Q9DLSIN0100
IC: 4675A-LSIN0100

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.