

# **FCC RF EXPOSURE REPORT**

**FCC ID: 2ABZMAP515**

**Project No. : 1507C072A**  
**Equipment : Wireless Access Point**  
**Model : AP515**  
**Applicant : SHENZHEN IP-COM NETWORKS CO.,LTD.**  
**Address : Room 101, Unit A, First Floor, Tower E3, No.**  
**1001, Zhongshanyuan Road, Nanshan District,**  
**Shenzhen, China. 518052**  
**According: : FCC Guidelines for Human Exposure IEEE**  
**C95.1**

**B T L I N C .**

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## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Internal	N/A	7	TX/RX
2	N/A	N/A	Internal	N/A	7	TX/RX

## TEST RESULTS

EUT :	Wireless Access Point	Model Name :	AP515
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
7	5.0119	23.14	206.0630	0.20556557	1	Complies
7	5.0119	24.52	283.1392	0.28245572	1	Complies
7	5.0119	22.34	171.3957	0.17098199	1	Complies

EUT :	Wireless Access Point	Model Name :	AP515
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
7	5.0119	22.42	174.5822	0.17416078	1	Complies
7	5.0119	23.56	226.9865	0.22643855	1	Complies
7	5.0119	21.26	133.6596	0.13333690	1	Complies

EUT :	Wireless Access Point	Model Name :	AP515
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
7	5.0119	19.79	95.2796	0.09504962	1	Complies
7	5.0119	25.07	321.3661	0.32059029	1	Complies
7	5.0119	22.13	163.3052	0.16291098	1	Complies

EUT :	Wireless Access Point	Model Name :	AP515
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
7	5.0119	18.54	71.4496	0.07127716	1	Complies
7	5.0119	24.09	256.4484	0.25582935	1	Complies
7	5.0119	18.33	68.0769	0.06791260	1	Complies

Note: the calculated distance is 20 cm.