



FCC RF EXPOSURE REPORT

FCC ID: W59XAP1210

Project No. : 1406C041
Equipment : High Power Wireless 300N Low Profile Access Point
Model : XAP-1210
Applicant : Luxul Wireless
Address : 14203 Minuteman Drive, Suite 201, Draper, UT USA

According: : FCC Guidelines for Human Exposure IEEE C95.1

BTL Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	Printed Antenna	N/A	2	
2	N/A	N/A	Printed Antenna	N/A	2	

TEST RESULTS

EUT :	High Power Wireless 300N Low Profile Access Point	Model Name :	XAP-1210
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	23.78	238.7811	0.07532695	1	Complies
2	1.5849	24.30	269.1535	0.08490834	1	Complies
2	1.5849	23.60	229.0868	0.07226872	1	Complies

EUT :	High Power Wireless 300N Low Profile Access Point	Model Name :	XAP-1210
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	25.84	383.7072	0.12104598	1	Complies
2	1.5849	26.27	423.6430	0.13364428	1	Complies
2	1.5849	26.06	403.6454	0.12733576	1	Complies

EUT :	High Power Wireless 300N Low Profile Access Point	Model Name :	XAP-1210
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	26.57	453.9416	0.14320242	1	Complies
2	1.5849	26.94	494.3107	0.15593743	1	Complies
2	1.5849	26.22	418.7936	0.13211446	1	Complies

EUT :	High Power Wireless 300N Low Profile Access Point	Model Name :	XAP-1210
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	23.94	247.7422	0.07815385	1	Complies
2	1.5849	25.44	349.9452	0.11039525	1	Complies
2	1.5849	24.07	255.2701	0.08052864	1	Complies

Note: the calculated distance is 20 cm.