



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: W59XVWP30**

**Project No. : 1310C160A**  
**Equipment : Wireless Range Extender**  
**Model : XVW-P30**  
**Applicant : Luxul Wireless**  
**Address : 14203 Minuteman Drive, Suite 201,  
Draper, UT USA**

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

***Neutron Engineering 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	NA	Printed	N/A	3	TX/RX
2	N/A	NA	Printed	N/A	3	TX/RX



**TEST RESULTS**

EUT:	Wireless Range Extender	Model Name :	XVW-P30
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
3	1.9953	18.12	64.8634	0.02576027	1	Complies
3	1.9953	18.16	65.4636	0.02599862	1	Complies
3	1.9953	18.07	64.1210	0.02546539	1	Complies

EUT:	Wireless Range Extender	Model Name :	XVW-P30
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
3	1.9953	20.15	103.5142	0.04111027	1	Complies
3	1.9953	20.13	103.0386	0.04092139	1	Complies
3	1.9953	20.14	103.2761	0.04101572	1	Complies



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EUT:	Wireless Range Extender	Model Name :	XVW-P30
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
3	1.9953	24.09	256.4484	0.10184750	1	Complies
3	1.9953	24.17	261.2161	0.10374099	1	Complies
3	1.9953	24.1	257.0396	0.10208228	1	Complies

EUT:	Wireless Range Extender	Model Name :	XVW-P30
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
3	1.9953	24.18	261.8183	0.10398013	1	Complies
3	1.9953	24.15	260.0160	0.10326434	1	Complies
3	1.9953	24.1	257.0396	0.10208228	1	Complies

The calculated distance is 20 cm