

# **FCC RF EXPOSURE REPORT**

**FCC ID: VW7SR630N**

**Project No. : 1408C169**  
**Equipment : 802.11n VDSL2 IAD**  
**Model : SR630n**  
**Applicant : SmartRG Inc.**  
**Address : 501 SE Columbia Shores Boulevard, Suite 500**  
**Vancouver, Washington 98661**  
**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	Airgain	Airgain	Integral	N/A	5.0	
2	Airgain	Airgain	Integral	N/A	5.0	

## TEST RESULTS

EUT :	802.11n VDSL2 IAD	Model Name :	SR630n
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
5	3.1623	17.83	60.6736	0.03819006	1	Complies
5	3.1623	17.64	58.0764	0.03655530	1	Complies
5	3.1623	17.89	61.5177	0.03872134	1	Complies

EUT :	802.11n VDSL2 IAD	Model Name :	SR630n
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
5	3.1623	18.58	72.1107	0.04538897	1	Complies
5	3.1623	21.45	139.6368	0.08789221	1	Complies
5	3.1623	21.69	147.5707	0.09288602	1	Complies

EUT :	802.11n VDSL2 IAD	Model Name :	SR630n
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
5	3.1623	25.48	353.1832	0.22230558	1	Complies
5	3.1623	25.11	324.3396	0.20415046	1	Complies
5	3.1623	22.6	181.9701	0.11453820	1	Complies

EUT :	802.11n VDSL2 IAD	Model Name :	SR630n
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
5	3.1623	22.27	168.6553	0.10615742	1	Complies
5	3.1623	25.69	370.6807	0.23331914	1	Complies
5	3.1623	21.51	141.5794	0.08911491	1	Complies

Note: the calculated distance is 20 cm.