



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: YJYDS204WA

Project No. : 1202C102
Equipment : 150Mbps Wireless N ADSL2/2+ Modem Router
Model : FD-364N
Applicant : Shanghai Feixun Communication Co., Ltd.
Address : Wing B, 15/F, GDC Building, NO.9 Gaoxinzhong
3rd Ave., Nanshan, Shenzhen, Guangdong , China

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

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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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	WuTong	K601-240012-A	Dipole	N/A	3.53	TX/RX
2	N/A	N/A	Printed	N/A	0.23	RX



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TEST RESULTS

EUT:	150Mbps Wireless N ADSL2/2+ Modem Router	Model Name :	FD-364N
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH01/CH06/CH11-802.11b		

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
3.53	2.2542	18.90	77.6247	0.03482975	1	Complies
3.53	2.2542	18.99	79.2501	0.03555907	1	Complies
3.53	2.2542	19.58	90.7821	0.04073337	1	Complies

EUT:	150Mbps Wireless N ADSL2/2+ Modem Router	Model Name :	FD-364N
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH01/CH06/CH11-802.11g		

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
3.53	2.2542	20.93	123.8797	0.05558407	1	Complies
3.53	2.2542	21.03	126.7652	0.05687879	1	Complies
3.53	2.2542	20.58	114.2878	0.05128028	1	Complies



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EUT:	150Mbps Wireless N ADSL2/2+ Modem Router	Model Name :	FD-364N
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH01/CH06/CH11-802.11n 20MHz		

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
3.53	2.2542	20.16	103.7528	0.04655329	1	Complies
3.53	2.2542	20.15	103.5142	0.04644622	1	Complies
3.53	2.2542	19.77	94.8418	0.04255498	1	Complies

EUT:	150Mbps Wireless N ADSL2/2+ Modem Router	Model Name :	FD-364N
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH03/CH06/CH09-802.11n 40MHz		

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
3.53	2.2542	16.45	44.1570	0.01981301	1	Complies
3.53	2.2542	19.51	89.3305	0.04008209	1	Complies
3.53	2.2542	16.20	41.6869	0.01870468	1	Complies