



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: ZVY-FW152A

Project No. : 1108C148
Equipment : IEEE802.11n Wireless 1T1R Router
Model : FW152A
Applicant : Intelligent Technology Inc.
Address : No.3 Street of Yuanhe River, Tongsha Industrial Zone
Dongcheng Area, Dongguan, Guangdong, China
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:

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

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 name	Model Name	Antenna Type	Connector	Gain (dBi)
1	INPAQ	ACA5036	Chip Antenna	N/A	2.10

TEST RESULTS

EUT:	IEEE802.11n Wireless 1T1R Router	Model Name :	FW152A
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	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	1.6218	19.00	79.4328	0.025642	1	Complies
2.1	1.6218	19.02	79.7995	0.025760	1	Complies
2.1	1.6218	19.20	83.1764	0.026850	1	Complies



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EUT:	IEEE802.11n Wireless 1T1R Router	Model Name :	FW152A
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	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	1.6218	19.46	88.3080	0.028507	1	Complies
2.1	1.6218	19.82	95.9401	0.030971	1	Complies
2.1	1.6218	19.38	86.6962	0.027987	1	Complies

EUT:	IEEE802.11n Wireless 1T1R Router	Model Name :	FW152A
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-20MHz /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	1.6218	17.11	51.4044	0.016594	1	Complies
2.1	1.6218	17.81	60.3949	0.019496	1	Complies
2.1	1.6218	17.64	58.0764	0.018748	1	Complies

EUT:	IEEE802.11n Wireless 1T1R Router	Model Name :	FW152A
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-40MHz /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	1.6218	18.26	66.9885	0.021625	1	Complies
2.1	1.6218	18.51	70.9578	0.022906	1	Complies
2.1	1.6218	18.62	72.7780	0.023494	1	Complies

Note:

All test result is complies.