

FCC RF EXPOSURE REPORT

FCC ID: VJA-RJ1302

Project No. : 1608276
Equipment : Mini PCI Radio Module, 1x1,IEEE 802.11 b/g
/n,902 MHz
Model : RJ-1302
Applicant : RAJANT CORPORATION
Address : 400 EAST KING STREET, MALVERN PA 19355

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

BTL Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	Cable loss (min.)	Gain(dBi)
1	RAJANT	KMA-915-5-NF	Dipole	Type N (female)	0	5

TEST RESULTS

EUT :	Mini PCI Radio Module, 1x1,IEEE 802.11 b/g /n,902 MHz	Model Name :	VIZMONET
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B-20MHZ MODE CHANNEL 02/03		

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
5	3.1623	29.38	866.9619	0.54570	1	Complies
5	3.1623	29.57	905.7326	0.57010	1	Complies

EUT :	Mini PCI Radio Module, 1x1,IEEE 802.11 b/g /n,902 MHz	Model Name :	VIZMONET
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G-5MHZ MODE CHANNEL 01/02/03/04		

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
5	3.1623	26.91	490.9079	0.30899	1	Complies
5	3.1623	29.4	870.9636	0.54821	1	Complies
5	3.1623	29.2	831.7638	0.52354	1	Complies
5	3.1623	29.36	862.9785	0.54319	1	Complies

EUT :	Mini PCI Radio Module, 1x1,IEEE 802.11 b/g /n,902 MHz	Model Name :	VIZMONET
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G-10MHZ MODE CHANNEL 01/02/03/04		

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
5	3.1623	26.44	440.5549	0.27730	1	Complies
5	3.1623	29.32	855.0667	0.53821	1	Complies
5	3.1623	29.12	816.5824	0.51398	1	Complies
5	3.1623	29.57	905.7326	0.57010	1	Complies

EUT :	Mini PCI Radio Module, 1x1, IEEE 802.11 b/g /n, 902 MHz	Model Name :	VIZMONET
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G-20MHZ MODE CHANNEL 02/03		

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
5	3.1623	29.86	968.2779	0.60947	1	Complies
5	3.1623	29.56	903.6495	0.56879	1	Complies

EUT :	Mini PCI Radio Module, 1x1, IEEE 802.11 b/g /n, 902 MHz	Model Name :	VIZMONET
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20MHZ MODE CHANNEL 02/03		

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
5	3.1623	27.78	599.7911	0.37753	1	Complies
5	3.1623	29.67	926.8298	0.58338	1	Complies

Note: the calculated distance is 20 cm.