

FCC RF EXPOSURE REPORT

FCC ID: 2AF5PMGMT77

Project No. : 1711C015
Equipment : 1) 24x8 Cable Modem plus AC1900 Router with Voice
2) 24x8 Cable Modem plus AC1900 Router
Model : 1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)
2) MG7700XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)
Applicant : MTRLC LLC
Address : P.O. Box 121147, Boston, Massachusetts, United States, 02112
According: : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091

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)
1	N/A	N/A	PCB	u.fl	3
2	N/A	N/A	PCB	u.fl	3
3	N/A	N/A	PCB	u.fl	3

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1	N/A	N/A	PCB	u.fl	3
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3	N/A	N/A	PCB	u.fl	3

TEST RESULTS

EUT :	1) 24x8 Cable Modem plus AC1900 Router with Voice 2) 24x8 Cable Modem plus AC1900 Router	Model Name :	1) MT7711XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only) 2) MG7700XY (where X can be A, B, C, D or blank, and Y can be A, B, C, D, or blank) The optional suffixes X and Y for identical hardware models for marketing purposes only)
Temperature :	25 °C	Relative Humidity:	60 %
Test Voltage :	AC 120V/60Hz		

2.4G WIFI

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	1.995	29.55	901.57	0.358	1	Complies

5G Band UNII-1

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	1.995	22.15	164.06	0.065	1	Complies

5G Band UNII-3

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	1.995	27.57	571.48	0.227	1	Complies

Note: the calculated distance is 20 cm.