FCC RF EXPOSURE REPORT

FCC ID: ZVA02

Project No. : 1211C167

Equipment : 300Mbps Wireless USB Adapter

Model: MT-WN813NM

 ${\bf Applicant} \qquad : {\bf TCL} \ {\bf Technoly} \ {\bf Electronics} ({\bf Huizhou}) \ {\bf Co., Ltd}$

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

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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	N/A	N/A	Printed	N/A	2.37	5G
2	N/A	N/A	Printed	N/A	2.37	5G

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R)

Operating Mode TX Mode	1TX	2TX
802.11a	V (ANT1 or ANT2)	-
802.11n(20MHz)	-	V (ANT1 & ANT2)
802.11n(40MHz)	-	V (ANT1 & ANT2)

TEST RESULTS

EUT:	300Mbps Wi Adapter	reless USB	Model Name	:	MT-WN813NM
Temperature:	25 ℃		Relative Humidity:		58 %
Pressure:	1010 hPa		Test Voltage	:	AC 120V/60Hz
Test Mode: TX A Mode /CH149, CH157, CH165					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2.37	1.7258	18.38	68.8652	0.02365649	1	Complies
2.37	1.7258	18.04	63.6796	0.02187512	1	Complies
2.37	1.7258	17.69	58.7489	0.02018136	1	Complies

EUT:	300Mbps Wire Adapter	eless USB	Model Name	:	MT-WN813NM
Temperature:	25 ℃		Relative Humi	dity:	58 %
Pressure:	1010 hPa		Test Voltage	:	AC 120V/60Hz
Test Mode:	TX N20 Mode /CH	1149, CH157,	CH165 ANT	1+AN	Т2

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2.37	1.7258	18.86	76.9130	0.02642107	1	Complies
2.37	1.7258	17.93	62.0869	0.02132801	1	Complies
2.37	1.7258	17.90	61.6595	0.02118119	1	Complies

IF() •	300Mbps Wireless U Adapter	JSB	Model Name :	MT-WN813NM
Temperature:	25 ℃		Relative Humidity:	58 %
Pressure:	1010 hPa		Test Voltage :	AC 120V/60Hz
Test Mode:	TX N40 Mode /CH151, CH	159 <i>i</i>	ANT 1+ANT 2	

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2.37	1.7258	18.09	64.4169	0.02212842	1	Complies
2.37	1.7258	18.26	66.9885	0.02301179	1	Complies