



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: Q78-ZXW3512C

Project No. : 1202C182A
Equipment : Indoor Wireless AP
Model : ZXV10 W812N V2
Applicant : ZTE Corporation
**Address : ZTE Plaza, Keji Road South, Hi-Tech,
Industrial Park, Nanshan District, Shenzhen,
Guangdong, P.R. 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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
A	MAGLAYERS	EDA-1513-5G0R2-A1	Dipole	R-SMA	3	5G
B	MAGLAYERS	EDA-1513-5G0R2-A1	Dipole	R-SMA	3	5G

Note:

The antenna of EUT could be rotated, but the Antenna Polarity vertical is max.

(2) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then,

Direction gain = GANT, that is Directional gain=3.

Operating Mode	2TX
TX Mode	
802.11a	-
802.11n(20MHz)	V (ANT A & ANT B)
802.11n(40MHz)	V (ANT A & ANT B)



TEST RESULTS

EUT:	Indoor Wireless AP	Model Name :	ZXV10 W812N V2
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48		

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	1.9953	14.40	27.5423	0.01093831	1	Complies
3	1.9953	14.69	29.4442	0.01169366	1	Complies
3	1.9953	14.71	29.5801	0.01174763	1	Complies

EUT:	Indoor Wireless AP	Model Name :	ZXV10 W812N V2
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48		

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	1.9953	14.52	28.3139	0.01124476	1	Complies
3	1.9953	14.65	29.1743	0.01158645	1	Complies
3	1.9953	14.51	28.2488	0.01121890	1	Complies

EUT:	Indoor Wireless AP	Model Name :	ZXV10 W812N V2
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 1/TX N40 Mode/CH36, CH40, CH48		

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	1.9953	14.66	29.2415	0.01161316	1	Complies
3	1.9953	14.6	28.8403	0.01145382	1	Complies