



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: QT72013LIZ0001

Project No. : 1304C291
Equipment : WiFiSDRJ
Model : LIZ-WIFI-D24U-BK; BIS-WIFI-D24U
Applicant : POWER 7 TECHNOLOGY(Dongguan) Co., Ltd.
Address : No.28 Binjiang Street. Lianhu Rd. Shishuikou Village, Qiaotou Town, Dongguan City, Guangdong Province 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:

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

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

Group 1					
Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	ECMACBX321610SC	Chip	N/A	2.5

Group 2					
Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	2450AT18A100	Chip	N/A	0.5

Note: Group 1 and Group 2 is same type antenna, Group 1 is recorded as the worst case since which gain is higher than Group 2.



TEST RESULTS

EUT :	WiFiSDRJ	Model Name :	LIZ-WIFI-D24U-BK
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
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
2.5	1.7783	19.23	83.7529	0.02964493	1	Complies
2.5	1.7783	18.68	73.7904	0.02611863	1	Complies
2.5	1.7783	18.43	69.6627	0.02465758	1	Complies

EUT :	WiFiSDRJ	Model Name :	LIZ-WIFI-D24U-BK
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
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
2.5	1.7783	21.98	157.7611	0.05584064	1	Complies
2.5	1.7783	21.87	153.8155	0.05444404	1	Complies
2.5	1.7783	21.79	151.0080	0.05345033	1	Complies



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EUT :	WiFiSDRJ	Model Name :	LIZ-WIFI-D24U-BK
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX N-20M 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
2.5	1.7783	21.23	132.7394	0.04698404	1	Complies
2.5	1.7783	21.33	135.8313	0.04807844	1	Complies
2.5	1.7783	21.02	126.4736	0.04476621	1	Complies

EUT :	WiFiSDRJ	Model Name :	LIZ-WIFI-D24U-BK
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX N-40M MODE /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
2.5	1.7783	21.54	142.5608	0.05046036	1	Complies
2.5	1.7783	21.67	146.8926	0.05199366	1	Complies
2.5	1.7783	21.58	143.8799	0.05092727	1	Complies