



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

**FCC ID: TQN2012ROC0001**

**Project No.** : 1207C056  
**Equipment** : WIFI-DISK  
**Model** : ROC-WIFI-S250UN; ROC-WIFI-S250U;  
VIC-WiFi-S250UN; JEW-WiFi-2517  
**Applicant** : Power 7 Technology Corp.  
**Address** : 2F.NO.176.Jian-Yi Road.Chung-Ho City. Taipei  
Hsien. Taiwan  
  
**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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
1	ECS	ECM A C BX 321610 SC	Chip	N/A	2.5

### TEST RESULTS

EUT :	WIFI-DISK	Model Name :	ROC-WIFI-S250UN
Temperature :	25 °C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	B Mode/CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	17.68	58.6138	0.02074676	1	Complies
2.5	1.7783	18.15	65.3131	0.02311801	1	Complies
2.5	1.7783	17.58	57.2796	0.02027451	1	Complies



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EUT :	WIFI-DISK	Model Name :	ROC-WIFI-S250UN
Temperature :	25 °C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	G Mode/CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	22.63	183.2314	0.06485603	1	Complies
2.5	1.7783	22.67	184.9269	0.06545614	1	Complies
2.5	1.7783	22.12	162.9296	0.05767006	1	Complies

EUT :	WIFI-DISK	Model Name :	ROC-WIFI-S250UN
Temperature :	25 °C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	N20 Mode/CH01/CH06/CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	21.76	149.9685	0.05308238	1	Complies
2.5	1.7783	22.52	178.6488	0.06323396	1	Complies
2.5	1.7783	22.65	184.0772	0.06515539	1	Complies

EUT :	WIFI-DISK	Model Name :	ROC-WIFI-S250UN
Temperature :	25 °C	Relative Humidity :	60 %
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	N40 Mode/CH03/CH06/CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	21.94	156.3148	0.05532869	1	Complies
2.5	1.7783	22.08	161.4359	0.05714133	1	Complies
2.5	1.7783	22.02	159.2209	0.05635732	1	Complies