



**Neutron Engineering Inc.**

# **FCC RF EXPOSURE REPORT**

## **FCC ID: QT72012MUS0001**

**Project No. : 1211C175**  
**Equipment : WIFI-SD**  
**Model : MUS-WIFI-SD**  
**Applicant : Power7 Technology(DongGuan) Co., Ltd.**  
**Address : No.28 Binjiang Blvd Shishuikou Village, Qiaotou  
Town, Dongguan, 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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	ECS	ECMA C BX 321610 S C	Chip	N/A	2.50	

### TEST RESULTS

EUT:	WIFI-SD	Model Name :	MUS-WIFI-SD
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	19.03	79.9834	0.02831068	1	Complies
2.5	1.7783	19.20	83.1764	0.02944085	1	Complies
<b>2.5</b>	<b>1.7783</b>	<b>19.23</b>	<b>83.7529</b>	<b>0.02964493</b>	<b>1</b>	<b>Complies</b>

EUT:	WIFI-SD	Model Name :	MUS-WIFI-SD
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	19.06	80.5378	0.02850692	1	Complies
2.5	1.7783	19.29	84.9180	0.03005733	1	Complies
<b>2.5</b>	<b>1.7783</b>	<b>19.65</b>	<b>92.2571</b>	<b>0.03265505</b>	<b>1</b>	<b>Complies</b>



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EUT:	WIFI-SD	Model Name :	MUS-WIFI-SD
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
<b>2.5</b>	<b>1.7783</b>	<b>20.34</b>	<b>108.1434</b>	<b>0.03827810</b>	<b>1</b>	<b>Complies</b>
2.5	1.7783	20.05	101.1579	0.03580555	1	Complies
2.5	1.7783	20.09	102.0939	0.03613686	1	Complies

EUT:	WIFI-SD	Model Name :	MUS-WIFI-SD
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.5	1.7783	18.88	77.2681	0.02734956	1	Complies
<b>2.5</b>	<b>1.7783</b>	<b>19.02</b>	<b>79.7995</b>	<b>0.02824557</b>	<b>1</b>	<b>Complies</b>
2.5	1.7783	18.91	77.8037	0.02753914	1	Complies