FCC RF EXPOSURE REPORT

FCC ID: ZQO-DWPCIE83

Project No. : **1107C138**
Equipment : **Half-size mini-PCle digital wireless audio module**
Model : **DWPCIe83**
Applicant : **STANDARD MICROSYSTEMS CORPORATION**
Address : **3930, EAST RAY ROAD SUITE 200, PHOENIX, IArizona，United States**
According: : **FCC Guidelines for Human Exposure IEEE C95.1**

Neutron Engineering Inc.

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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 name	Model Name	Antenna Type	Connector	Gain (dBi)	
A	WNC	WNC_ANT_WIMAX_3D-2_2300-5850MHz	PIFA	U.FL	4.80	5.2G
B						

TEST RESULTS

5.2G Frequency range: 5180/5210/5240MHz

EUT：	Half-size mini-PCIe digital wireless audio module	Model Name ：	DWPCIe83
Temperature：	25 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX MODE **5180/5210/5240MHz (Normal Power mode -Antenna A)**		

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
4.80	**3.0200**	**13.1700**	**20.7491**	**0.01247241**	**1**	**Complies**
4.80	3.0200	12.1700	16.4816	0.00990719	1	Complies
4.80	3.0200	11.7000	14.7911	0.00889100	1	Complies

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Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX MODE **5180/5210/5240MHz (Normal Power mode -Antenna B)**		

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
4.80	**3.0200**	**12.5700**	**18.0717**	**0.01086301**	**1**	**Complies**
4.80	3.0200	12.5400	17.9473	0.01078823	1	Complies
4.80	3.0200	11.2400	13.3045	0.00799743	1	Complies