

**Statement of compliance to  
Maximum Permissible Exposure (MPE)  
No. 171000950SHA-002**

Applicant : Dana Innovations  
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Manufacturing site : Hansong (Nanjing) Technology Ltd.  
8th Kangping Road, Jiangning Economy and Technology  
Development Zone, Nanjing, 211106, China.

Product Name : Subwoofer

Type/Model : i10

**According to § 2.1091, § 2.1093 and § 1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.**

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Prepared by:



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Reviewed by:



Daniel Zhao (Reviewer)

Power density (S) is calculated according to the formula:

$$S = PG / (4 \pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Frequency band (MHz)	Power		Antenna Gain		R (cm)	S (mW/cm <sup>2</sup> )	Limits (mW/cm <sup>2</sup> )
	dBm	mW	dBi	(Numeric)			
2402 - 2480	8.233	6.66	2	1.585	20	0.002	1

For DWAM83 module:

Frequency band (MHz)	Power		Antenna Gain		R (cm)	S (mW/cm <sup>2</sup> )	Limits (mW/cm <sup>2</sup> )
	dBm	mW	dBi	(Numeric)			
2412 ~ 2464	19.49	88.92	1.5	1.413	20	0.025	1
5180 ~ 5240	7.44	5.55	1.5	1.413	20	0.002	1
5736 ~ 5814	16.84	48.31	1.5	1.413	20	0.014	1

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1

For the device consider simultaneous transmission of BLE and DWAM83 module 5GHz,

The worst MPE = 0.002 + 0.014 = 0.016 mW/cm<sup>2</sup> < 1 mW/cm<sup>2</sup>.

## **Appendix I**

### **Definition below must be outlined in the User Manual:**

To satisfy FCC RF exposure requirements, a separation distance of **20** cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.