

# **FCC RF EXPOSURE REPORT**

**FCC ID: EMOVIB72CA**

**Project No. : 1606C159**  
**Equipment : Captain America Shield 1 to 4 Scale Speaker**  
**Model Name : Vi-B72CA**  
**Applicant : SDI TECHNOLOGIES INC.**  
**Address : 1299 Main Street, Rahway, NJ 07065, U.S.A**

**According: : FCC Guidelines for Human Exposure IEEE  
C95.1**

**B T L I N C .**

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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

Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Printed	N/A	0

## TEST RESULTS

EUT :	Captain America Shield 1 to 4 Scale Speaker	Model Name :	Vi-B72CA
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode _1Mbps		

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
0	1.0000	3.98	2.5003	0.00049768	1	Complies
0	1.0000	3.27	2.1232	0.00042262	1	Complies
0	1.0000	4.08	2.5586	0.00050927	1	Complies

EUT :	Captain America Shield 1 to 4 Scale Speaker	Model Name :	Vi-B72CA
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode _3Mbps		

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
0	1.0000	3.98	2.5003	0.00049768	1	Complies
0	1.0000	3.28	2.1281	0.00042359	1	Complies
0	1.0000	4.05	2.5410	0.00050577	1	Complies

Note: the calculated distance is 20 cm.