

FCC RF EXPOSURE REPORT

FCC ID: EMOIBT67

Project No. : 1601C156
**Equipment : Rechargeable Bluetooth Speaker with
Speakerphone**
**Model : iBT67, iBT67X, iBT67XC (“X”= a to Z, denote as
color of cabinet)**
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.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PCB	N/A	2.3

TEST RESULTS

EUT :	Rechargeable Bluetooth Speaker with Speakerphone	Model Name :	iBT67
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.3	1.6982	3.43	2.2029	0.00074465	1	Complies
2.3	1.6982	3.52	2.2491	0.00076024	1	Complies
2.3	1.6982	3.4	2.1878	0.00073952	1	Complies

EUT :	Rechargeable Bluetooth Speaker with Speakerphone	Model Name :	iBT67
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.3	1.6982	4.76	2.9923	0.00101146	1	Complies
2.3	1.6982	4.28	2.6792	0.00090563	1	Complies
2.3	1.6982	4.18	2.6182	0.00088501	1	Complies

Note: the calculated distance is 20 cm.