

# **FCC RF EXPOSURE REPORT**

**FCC ID: API-MB8811VMA**

**Project No. : 1512C045**  
**Equipment : Bluetooth Adapter Card**  
**Model : MB8811C1B**  
**Applicant : Harman International Industries, Inc**  
**Address : 8500 Balboa Boulevard, Northridge CA., 91329 USA**

**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	PCB	N/A	0

## TEST RESULTS

EUT:	Bluetooth Adapter Card	Model Name :	MB8811C1B
Temperature:	24 °C	Relative Humidity:	50 %
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	3.69	2.3388	0.00046553	1	Complies
0	1.0000	3.55	2.2646	0.00045077	1	Complies
0	1.0000	3.80	2.3988	0.00047747	1	Complies

EUT :	Bluetooth Adapter Card	Model Name :	MB8811C1B
Temperature :	24 °C	Relative Humidity:	50 %
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	3.44	2.2080	0.00043949	1	Complies
0	1.0000	3.63	2.3067	0.00045915	1	Complies
0	1.0000	3.75	2.3714	0.00047201	1	Complies

Note: the calculated distance is 20 cm.