

FCC RF EXPOSURE REPORT

FCC ID:CMU-ACBVIBE

Project No. : 1709C130
Equipment : Sound Bar
Test Model : ACV-5100BL
Series Model : ACV-5100GR, ACV-2100BL, ACV-2100GR
Applicant : AMX LLC
Address : 3000 Research DrRichardson TX USA 75082

**According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091**

B T L I N C .

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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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	AMX	N/A	PCB	N/A	-0.31

TEST RESULTS

EUT :	Sound Bar	Model Name :	AMX
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

BT

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
-0.31	0.9311	6.71	4.6881	0.00087	1	Complies

LE

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
-0.31	0.9311	7.19	5.2360	0.00097	1	Complies

For BT+BT LE simultaneous transmission MPE:

$$0.00087/1+0.00097/1=0.00184<1$$

Note: the calculated distance is 20 cm.