

REVISION HISTORY

Rev.	Revised Section/Paragraph
Α	Creation

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1 Objective

Objective of this document is to provide the gain and radiation pattern for the PLATINIUM BLE defibrillators to be commercialized in United States of America.

2 General description

The gain and radiation pattern of each device is calculated by means of numerical computing. The implantable medical devices are designed to work into the human body so dielectric characteristics of human body are considering in the numerical model.

Rev.

2.1 Gain and Radiation pattern results

2.1.1 Devices with G440E Antenna

The devices with G440E antenna and 3D Gain at fc (2440MHz) are:



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The 2D Radiation Pattern is:

• For Min frequency



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• Middle frequency





• Max frequency



Rev.	

2.1.1 Devices with G730A and G731A Antennas

The devices with G730A and G731A antennas and 3D Gain at fc (2440MHz) are:



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The 2D Radiation Pattern is:

Min frequency •



Figure 1 : Radiation pattern for IS1 Devices with G730A and G731A Antennas

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• Middle frequency





• Max frequency





Rev.

2.1.2 Devices with GA25B Antenna

The device with GA25B antenna and 3D Gain at fc (2440MHz) are:





dBi -25 --27.4 -29.8 -32.3 -34.7 -37.1 -39.5 -42 -44.4 -46.8 -49.2 -51.6 -54.1 -56.5 --58.9 -61.3 Þ -65 Gain 3D max = -25 dBi

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The 2D Radiation Pattern is:

• Min frequency



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• Middle frequency





• Max frequency

