

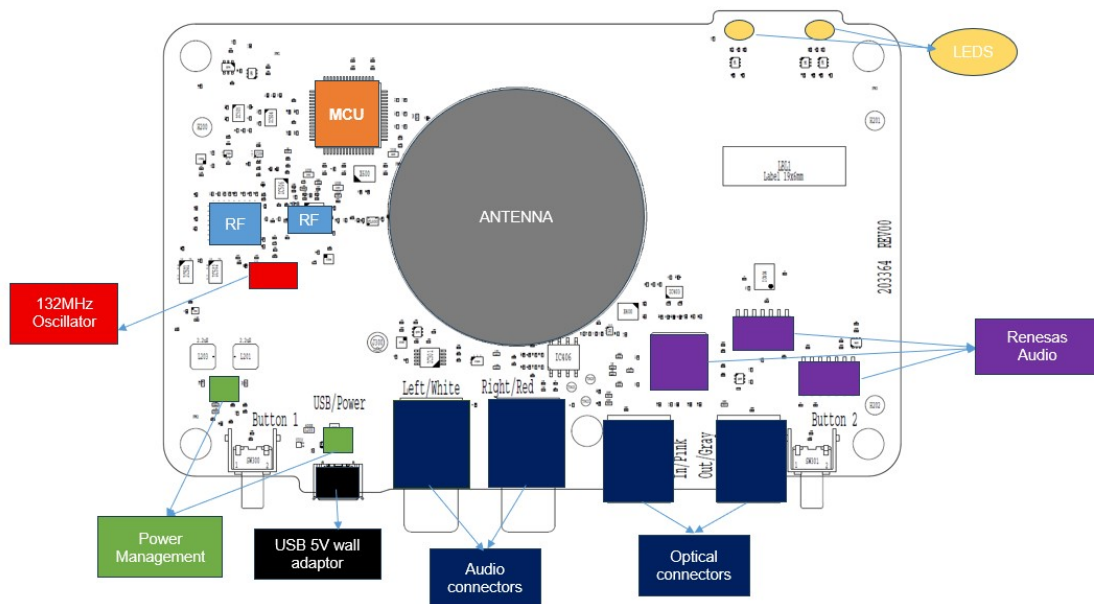
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Antenna Specification

The product TVA3.1 is designed containing a Bluetooth Low Energy and proprietary 2G4 radio interface sharing the same antenna and no simultaneous operation of the two operating modes:

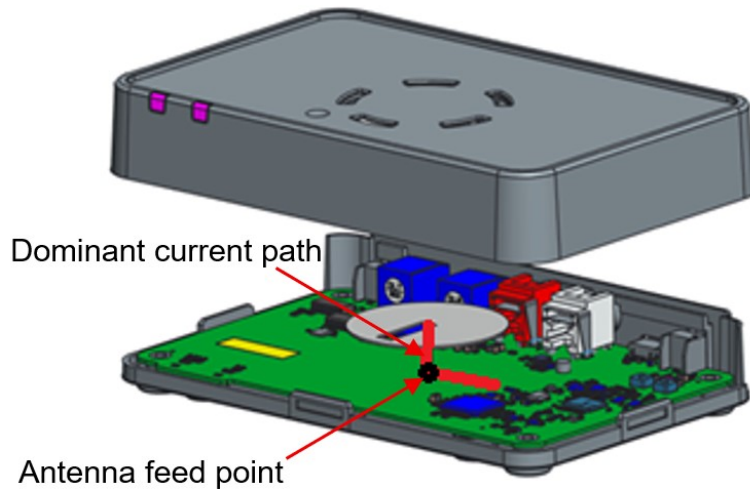
1. A Bluetooth Low Energy transceiver operating in the band from 2402 MHz to 2480 MHz.

The transceiver is located in TVA3.1 PCB in the upper left corner.



The 2.4 GHz antenna for Bluetooth connections is a monopole antenna with a PCB feeding point.

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The radiation patterns are shown in annex A.

The gain is measured in Demant A/S test report **DOC-10008003_1 Antenna OTA test report for TVA3.1** with the following gain results measured at 1 Mbps and 2 Mbps data rates:

EUT #	Test state	Frequency (MHz)	Antenna gain (dBi)	Directivity (dBi)
1	Free space	2404	1,1	4,6
1	Free space	2440	1,9	4,8
1	Free space	2478	1,4	4,7

The maximum conducted TX power is measured to 12.26 dBm when operating at 2 Mbps.

Signed on behalf of SBO Hearing A/S, May 29th - 2026

Per Klaus Nielsen / Principal Certification Specialist, RA

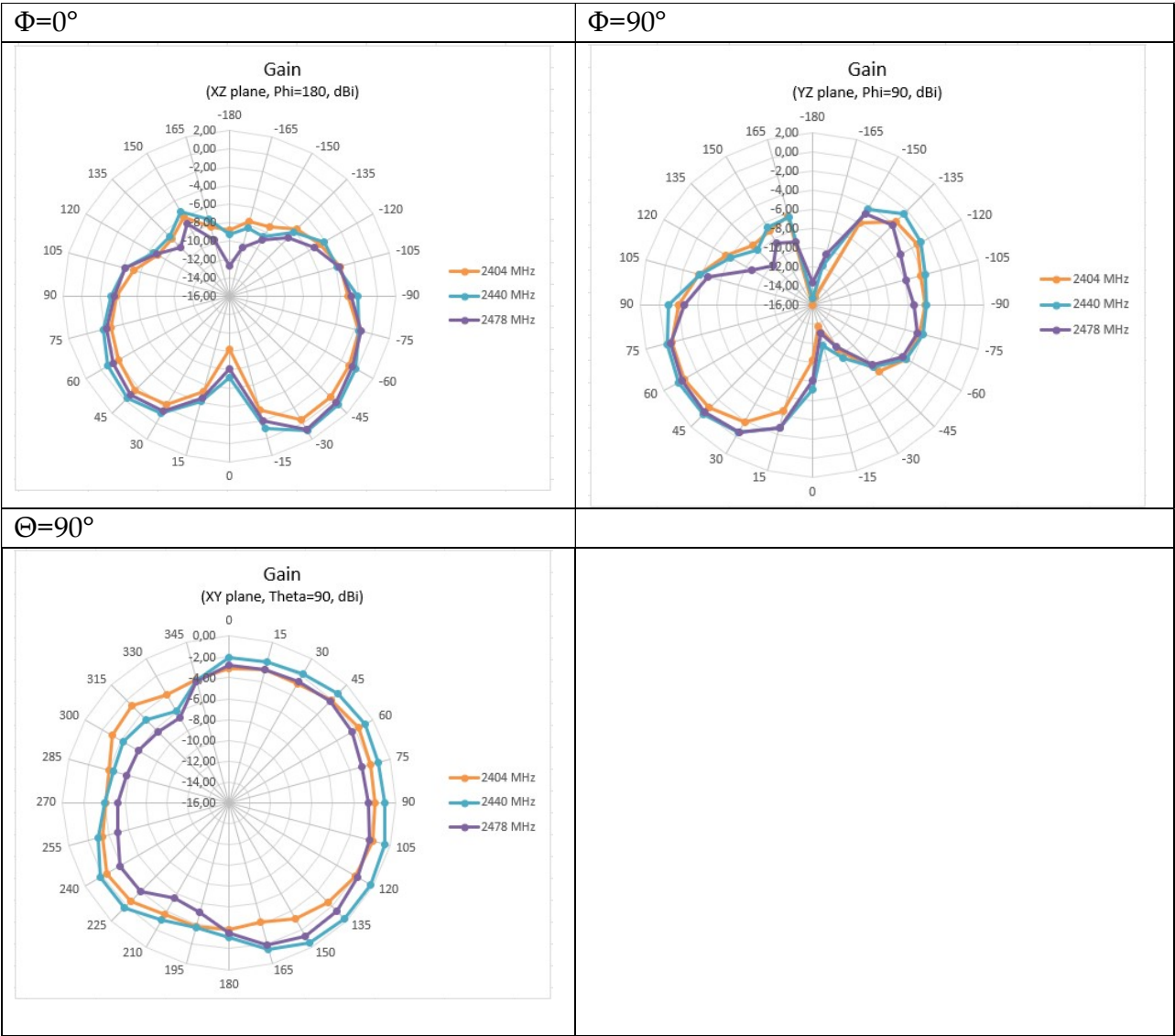
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Annex A: 2D/3D radiation pattern for the Bluetooth antenna.

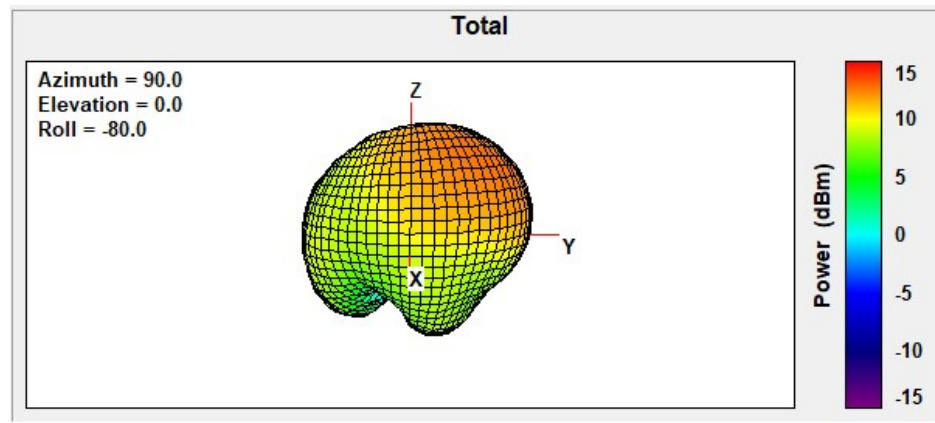
2D patterns for $F_c = 2404, 2440$ and 2478 MHz



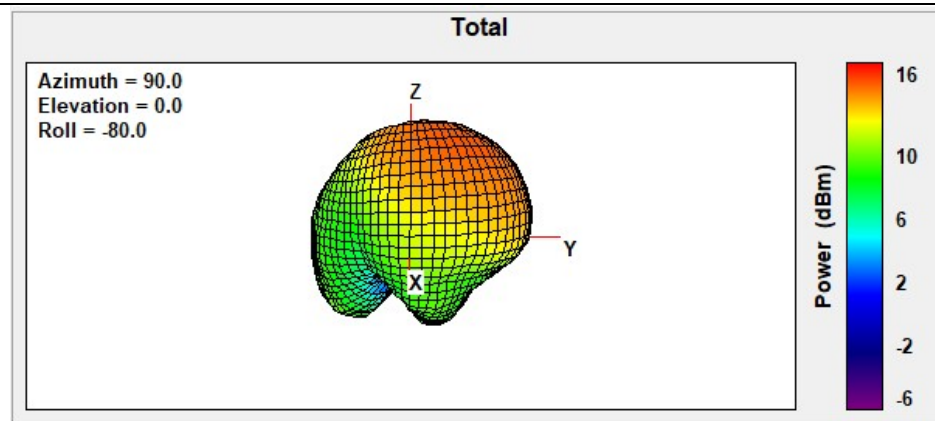
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3D patterns for $F_c = 2404$, 2440 and 2478 MHz

$F_c = 2404$



$F_c = 2440$



$F_c = 2478$

