ANTENNA ISOTROPIC PEAK GAIN PATTERN

TESLA GEN DELTA BLE SENSOR

Antenna Manufacturer:

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i. ABBREVIATIONS / GLOSSARY

TERM	EXPANSION/MEANING
dBi	Decibel Isotropic

ii. SUPPORTING DOCUMENTS

REFERENCE	ISSUE

iii. DOCUMENT HISTORY AND STORAGE

DOCUMENT NAME	LOCATION

1.Introduction

This document shows the antenna pattern and antenna gain of **TESLA GEN DELTA BLE 2.4GHz** transmitter.

2.Description

TESLA GEN DELTA BLE 2.4GHz

Specifications:

1. Antenna Type: PCB Trace Antenna
2. Antenna Brand: Sensata Technologies

Note: There is no external antenna, the antenna is part of the pcb layout

3.Antenna gain

Test equipment used:

Category	Mark	Type	Calibration due date
Anechoic Test Site	Sensata		
Spectrum analyser	ANRITSU	MS2830A	20/09/2023
Coaxial cable		RG214U 50 Ohm 11m	
Open Boundary Quad-Ridged Horns antenna	ETS Lindgren	3164-06	

Conditions:

The test is performed in anechoic test site. The Transmitter is placed on a rotating table in continuous learn emission (EMC).

Description of transmitter positioning:

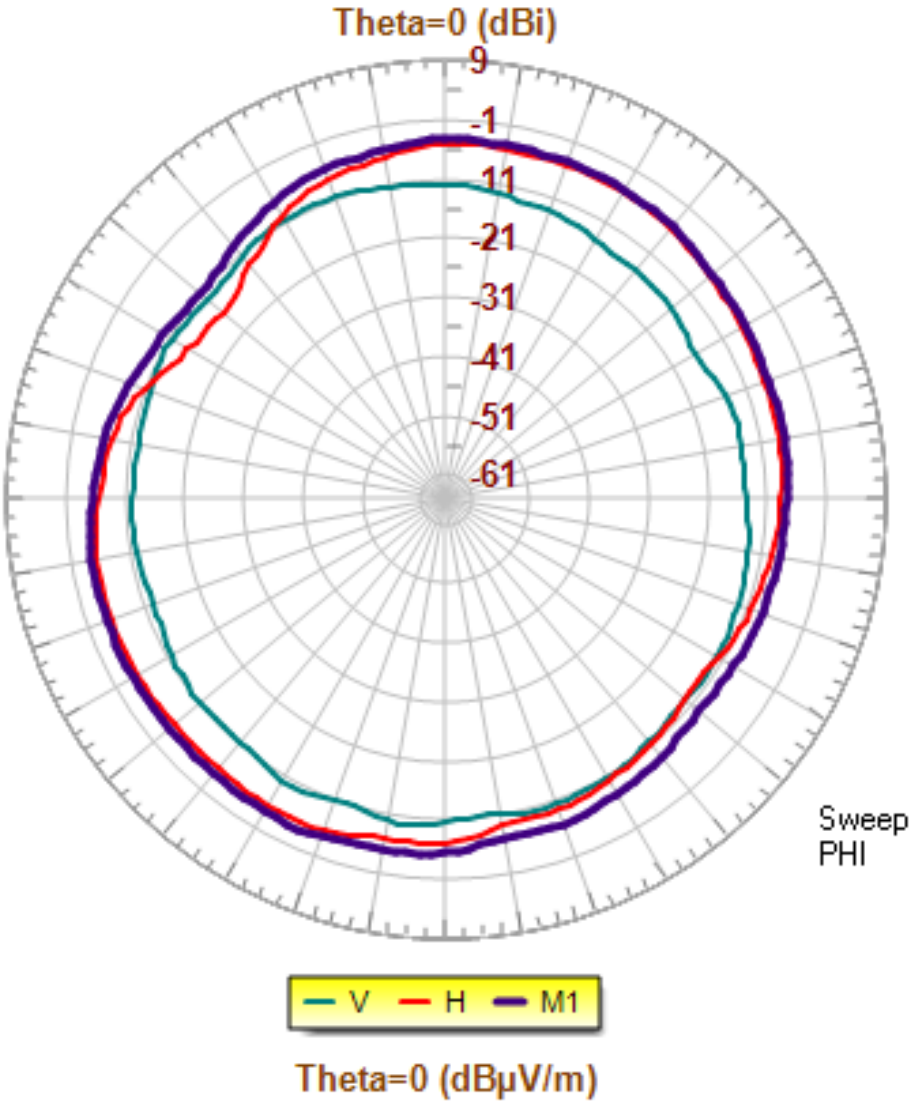
All measurements are done in Anechoic Chamber at 3m with TX on table in 3 positions as follow:

Pos. ϑ=0 ***Pos ϑ=90*** ***Pos. φ=0***

Peak antenna gain: -3.8 dBi

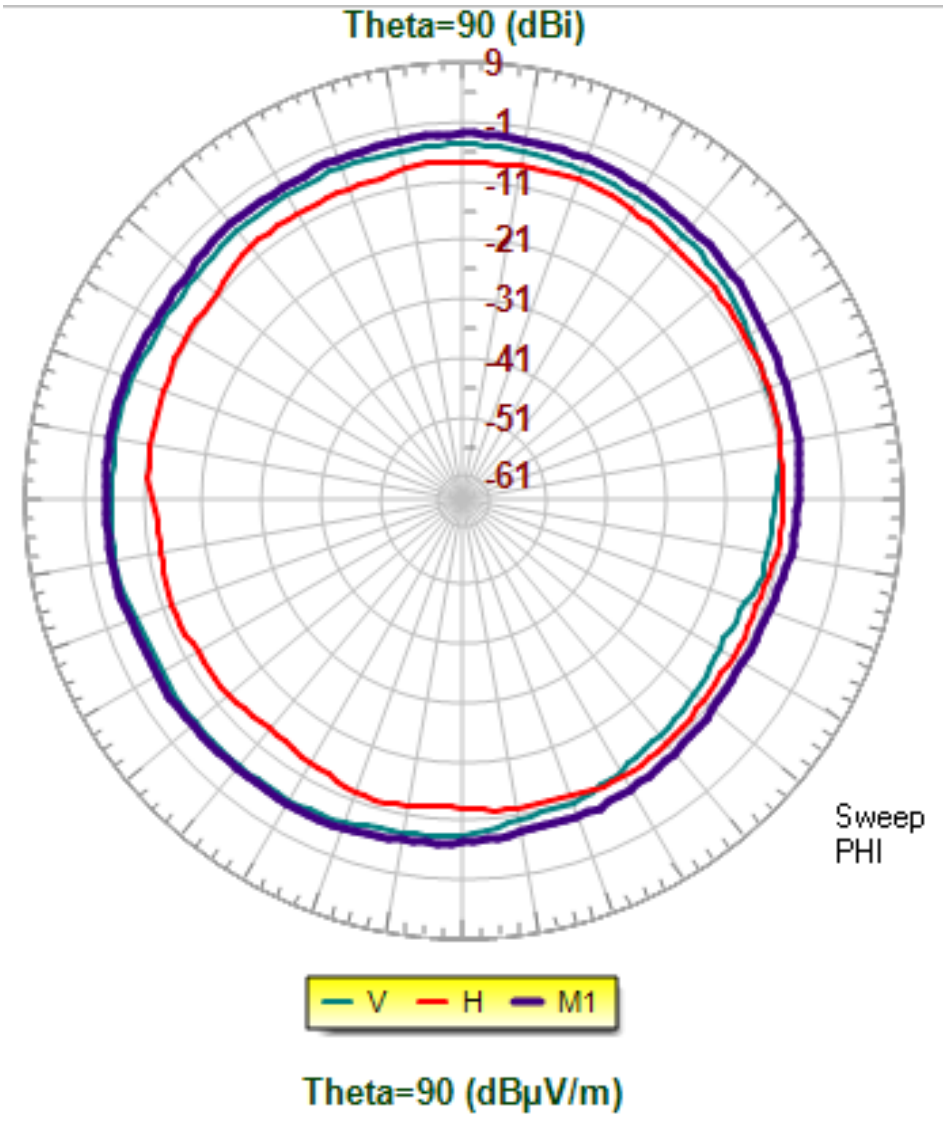
Gain in dBi Position ***ϑ=0*** *polarisations V, H and Module*

TESLA GEN DELTA BLE 2.4GHz



Gain in dBi Position ***ϑ=90*** *polarisations V, H and Module*

TESLA GEN DELTA BLE 2.4GHz



Gain in dBi Position φ=0 polarisations V, H and Module

TESLA GEN DELTA BLE 2.4GHz