



Sensata
Technologies

Antenna Isotropic Peak Gain Pattern ETPMS01 433.92MHz sensor

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01	Initial release	Nicolas Garnier	27-09-2022

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01

i. ABBREVIATIONS / GLOSSARY

<i>TERM</i>	<i>EXPANSION/MEANING</i>
<i>dBi</i>	Decibel Isotropic

ii. SUPPORTING DOCUMENTS

<i>REFERENCE</i>	<i>ISSUE</i>

iii. DOCUMENT HISTORY AND STORAGE

<i>DOCUMENT NAME</i>	<i>LOCATION</i>

1. Introduction

This document shows the antenna pattern and antenna gain of ETPMS01 **433.92MHz** transmitter.

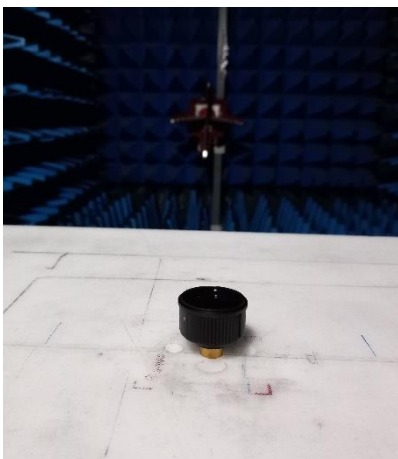
Picture(s) of transmitter:



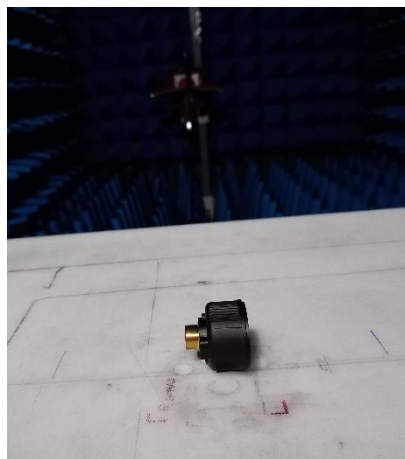
ETPMS01 433.92MHz

Description of transmitter positioning:

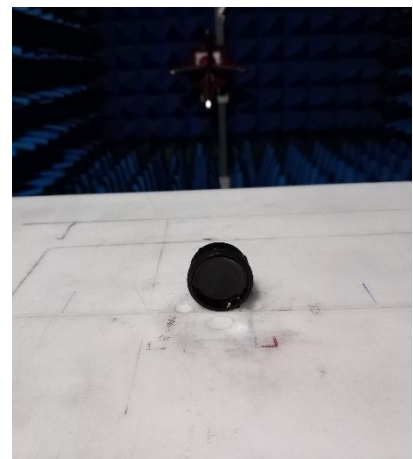
All measurements are done in Anechoic Chamber at 3m with TX on table in 3 positions as follow:



Pos. 1



Pos. 2



Pos. 3

2. Antenna gain

Test equipment used:

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

Conditions:

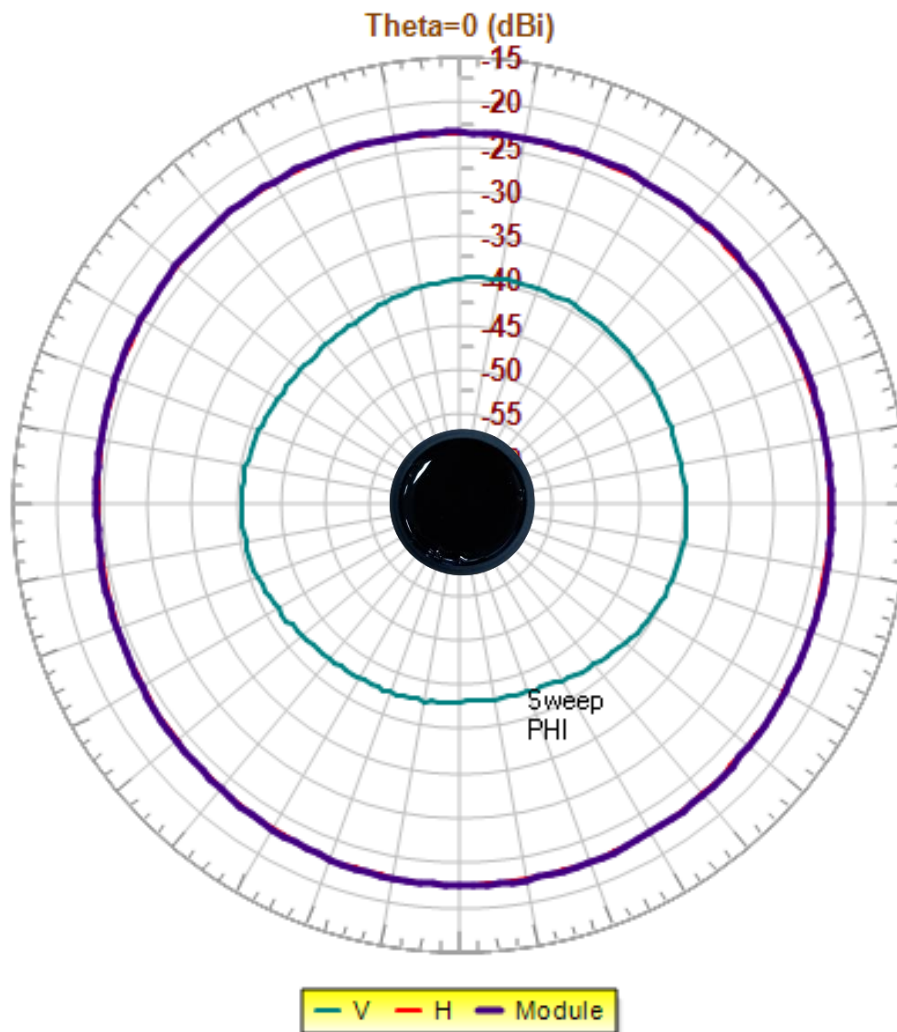
The test is performed in anechoic test site. The Transmitter is placed on a rotating table in continuous wave emission (CW).

Result:

Peak antenna gain: -22.2dBi

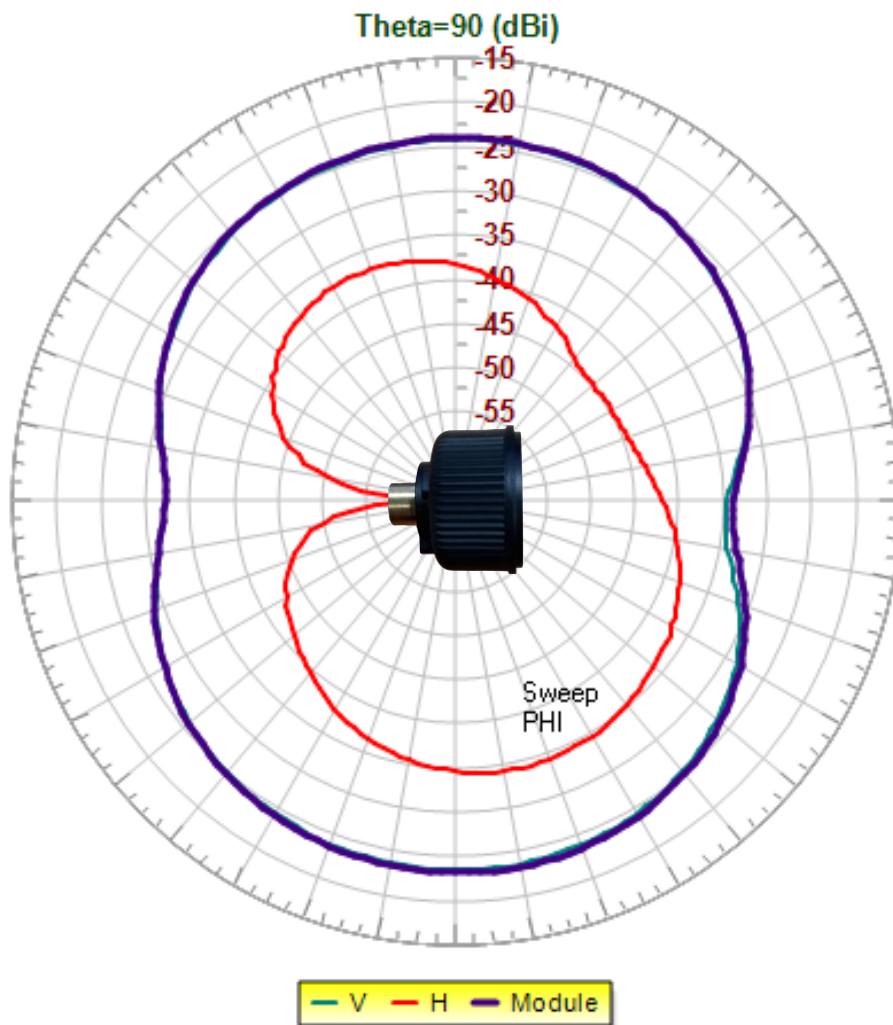
Gain in dBi Position 0 polarisations V, H and Module

ETPMS01 433.92MHz



Gain in dBi Position1 polarisations V, H and Module

ETPMS01 433.92MHz



Gain in dBi Position2 polarisations V, H and Module

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