



Sensata
Technologies

ANTENNA ISOTROPIC PEAK GAIN PATTERN

HUB B

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01	Initial release	Thomas Guillemain	02-06-2023

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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

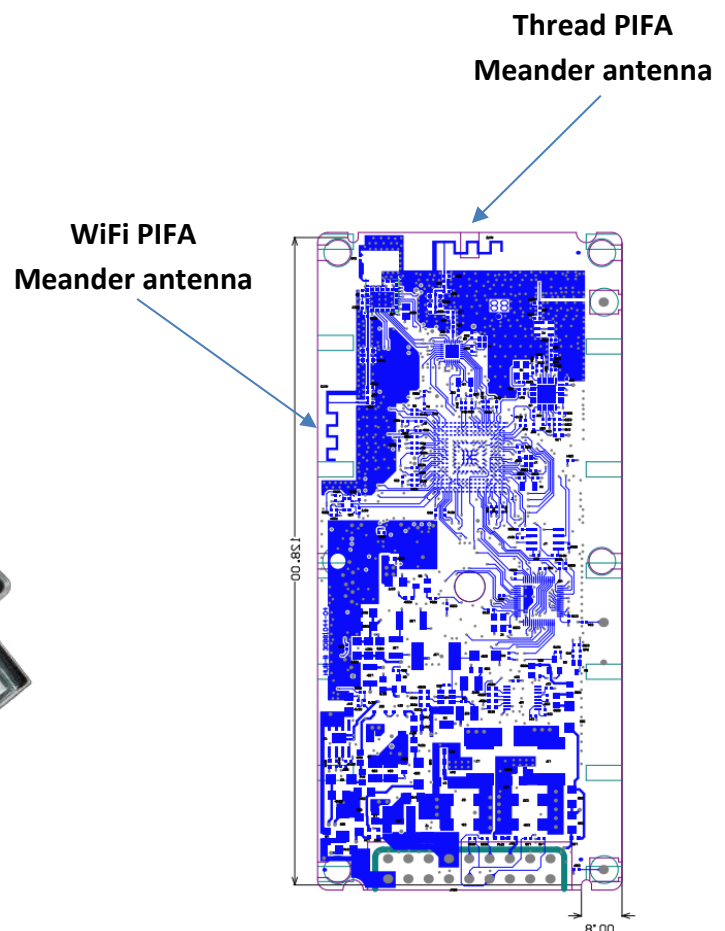
This document shows the antenna gain and pattern for the Thread PIFA Meander and WiFi PIFA Meander for HUB B

2. Description

Picture(s) of EUT:



HUB B



Specifications:

1. Antenna Type: PCB Trace Antenna

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

3. Antenna gain

Test equipment used:

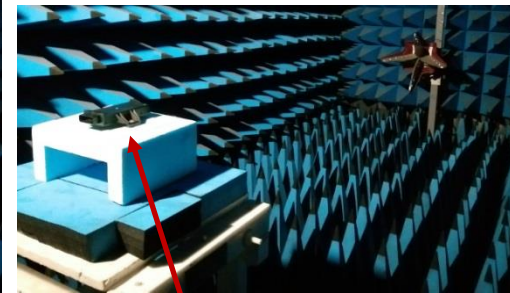
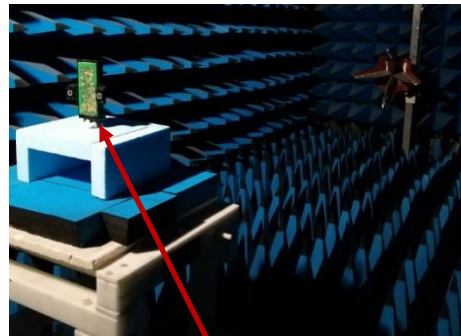
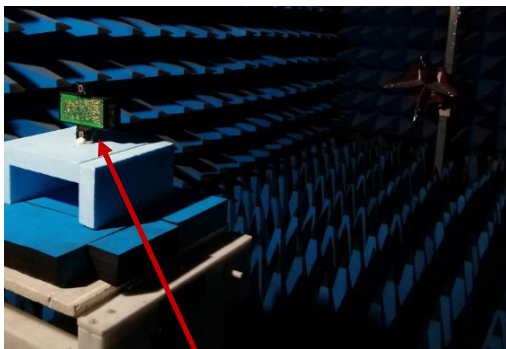
Category	Mark	Type	Calibration due date
Anechoic Test Site	Sensata		
Spectrum analyser	ANRITSU	MS2830A	20/09/2023
Coaxial cable		RG214U 50 Ohm 11m	
Open Boundary Quad-Ridged Horns antenna	ETS Lindgren	3164-06	

Conditions:

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

Description of transmitter positioning:

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



Pos. $\vartheta=0$

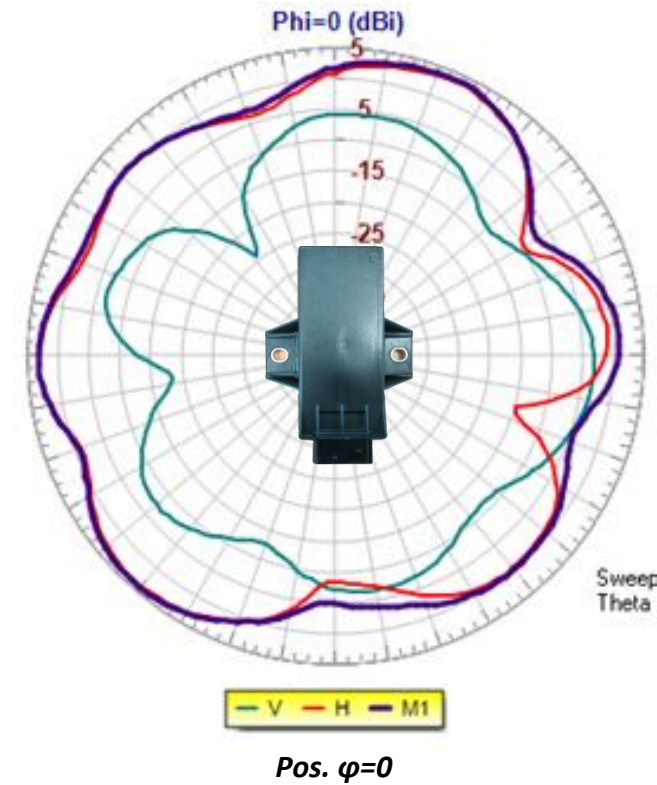
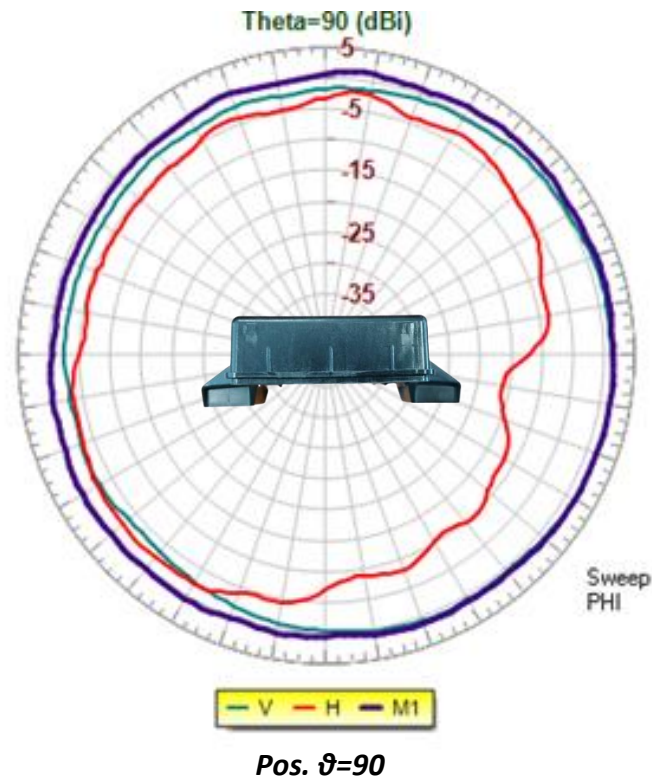
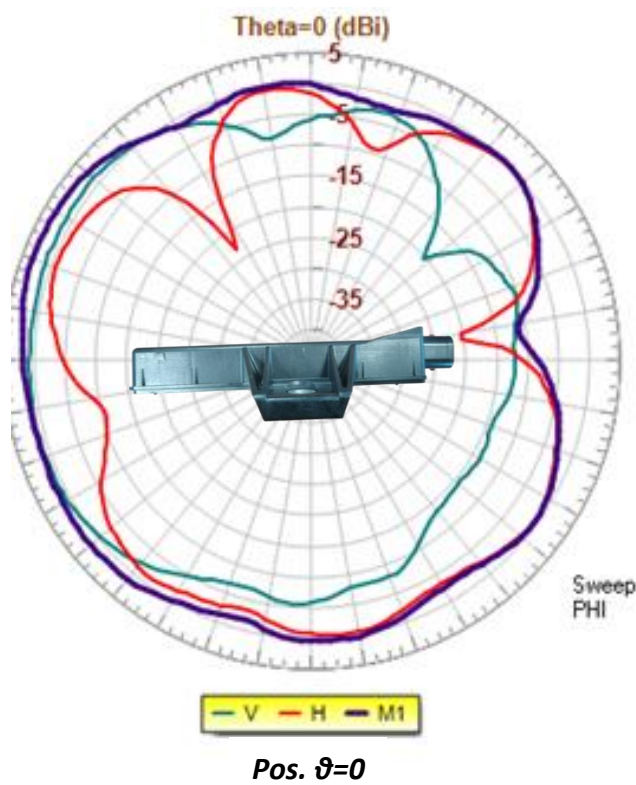


Pos. $\vartheta=90$



Pos. $\varphi=0$

Peak antenna gain Thread PIFA Meander: 4.4 dBi



Peak antenna gain WiFi PIFA Meander: 3.8 dBi

