	https://docs.google.com/document/ d/15vcafr4xtLnq2WANSbO_QN4m FbOFvG-I
Responsible	Geir Botterli
Classification	Confidential



Revision History Table			
Named revision	Date	Comment:	
01	2025-03-18	First version	

## **Antenna Details**

The antenna in 102895 Wireless Temperature and Humidity Sensor US is an integrated PCB antenna. It is designed using a rigid flex solution where the antenna part of the PCB is separated from the main PCB with a flexible PCB area to allow it to be mounted at an angle.

The main characteristics of the antenna are:

• Antenna Type: Integrated PCB Antenna

Antenna structure: Helix

• Total copper length: 105 mm

• Radiation pattern: Similar to dipole antenna

• Antenna Details : Product PCB, part number 102798

• Design: Disruptive Technologies Research AS

Antenna gain: < -4 dBd</li>

The PCB thickness is 1.62 mm and the area of the antenna on the PCB is 19 mm x 5.6 mm.

## Test results

The antenna gain was measured at the top, middle and bottom frequencies of the band in the RF test report "PRJ0065558 REP078715 Nemko TRF FCC Part 15.247 DTS.pdf". The results are shown in the table below.

Carrier Frequency	Peak Conducted Power (dBm)	Peak EIRP (dBm)	Antenna Gain (dBi)
903.25 MHz	12.6	1.6	-11.1
915.00 MHz	12.5	5.1	-7.4
926.75 MHz	12.5	7.1	-5.4