Antenna Specification

FCC Regulatory Certification
Project Name : ESR60803

James Chiu, Engineering
Date: 2026-07-17

1. Document Information

- **Project Name :** ESR60803
- **Model :** EZ26

2. Antenna Supplier Information

- **Supplier Name :** Nutek Corporation
- **Supplier Address :** No.167, Lane 235, Bauchiau Rd., Xindian District, New Taipei City

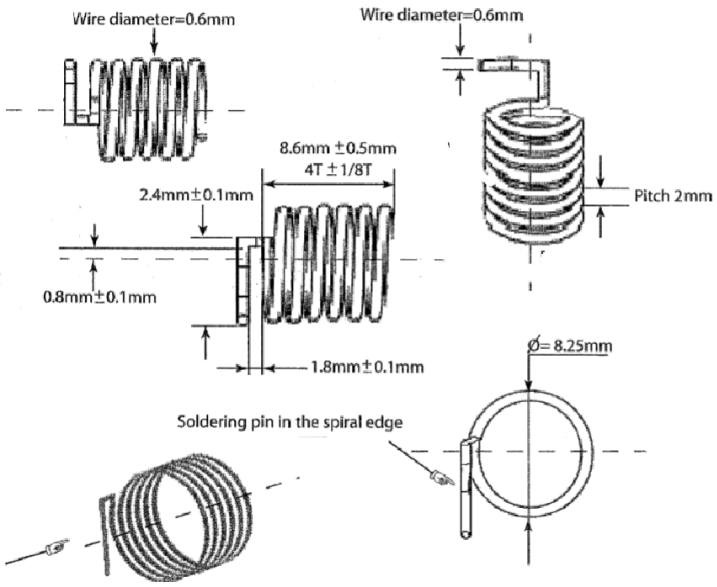
3. Antenna Information

- **Antenna Type:** Helical Antenna
- **Device Operating Frequency Range :** 903.966 ~ 917.196 MHz
- **Mid-Channel Test Frequency :** 910.446 MHz
- **Maximum Measured Peak Gain :** -3.60 dBi
- **Reference Impedance :** 50 Ohm

4. Antenna Dimensions

This is a helical antenna, as shown in the mechanical drawing below.
All dimensions are in millimeters.

- Wire Diameter: 0.6 mmm
- Pitch: 2 mm
- Number of Turns: 4T ± 1/8T
- Helix Winding Direction: Left-Handed



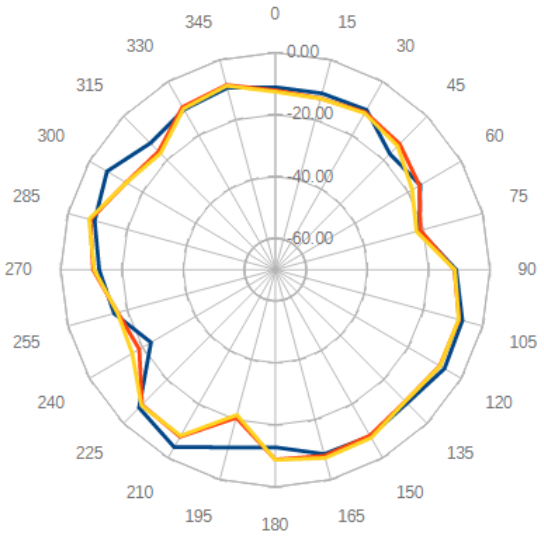
5. Purpose

This document describes the mechanical specifications, maximum measured antenna gain, and radiation patterns of the helical antenna installed in Model EZ26 for FCC certification.

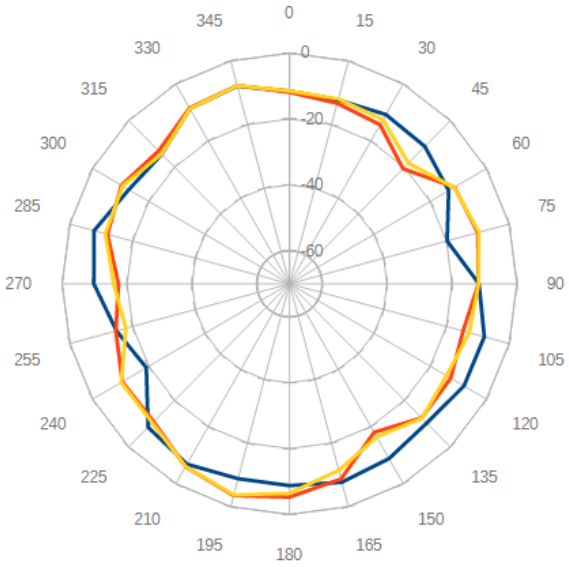
6. Radiation Performance – Horizontal Plane

Test Frequencies: 903.966 MHz / 910.446 MHz / 917.196 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
903.966	-4.24	-20.70	-11.85
910.446	-4.14	-21.90	-12.06
917.196	-3.86	-26.55	-12.44



7. Radiation Performance – Vertical Plane

Test Frequencies: 903.966 MHz / 910.446 MHz / 917.196 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
903.966	-4.34	-26.87	-15.15
910.446	-3.68	-24.13	-14.91
917.196	-3.60	-23.37	-15.15