



Dated: September 24, 2025

Subject: Antenna Justification Letter for FCC Part 15 Compliance

FCC ID: 2AAJXIQLASSS

Model Number: IQGlass-S

To Whom It May Concern,

This letter provides justification for the antenna configuration used in the above-referenced device, submitted for certification under **FCC Part 15**.

Radiated Measurement Justification

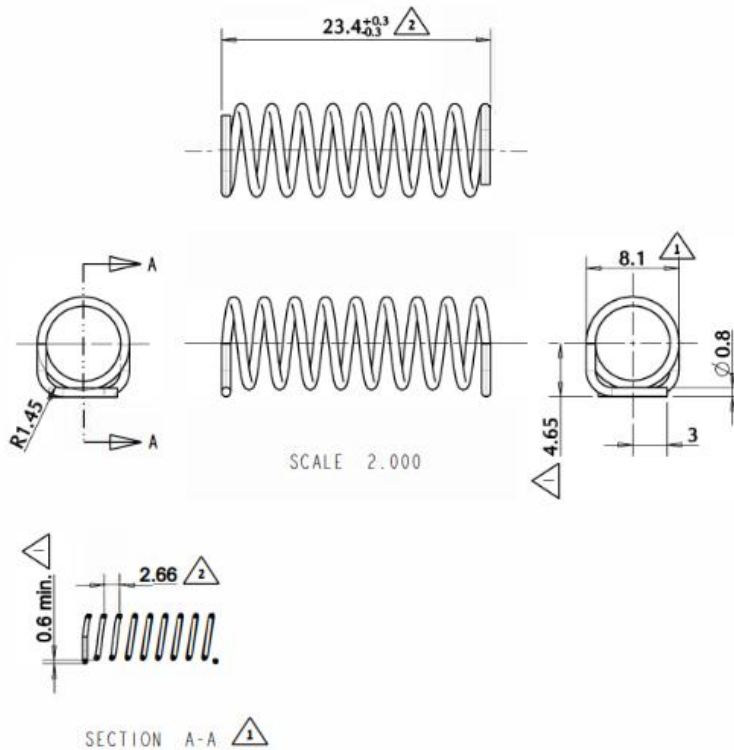
All compliance testing, including fundamental and spurious emissions, was performed using **radiated measurement methods**. As such, antenna gain and performance characteristics were inherently captured in the test results. Therefore, no separate antenna gain documentation is required to demonstrate compliance with FCC limits.

This approach aligns with the guidance provided in the **FCC TCB Workshop (October 2022)** and **KDB 353028 D01**, which allows for a justification statement in lieu of antenna gain documentation when radiated measurements are used exclusively.

Antenna Description

- **Antenna Type:** coil antenna
- **Location:** soldered on the transmitter PCB, as shown in the internal photographs

- **Dimensions: 23.4 mm × 8.1 mm × 8.1 mm**

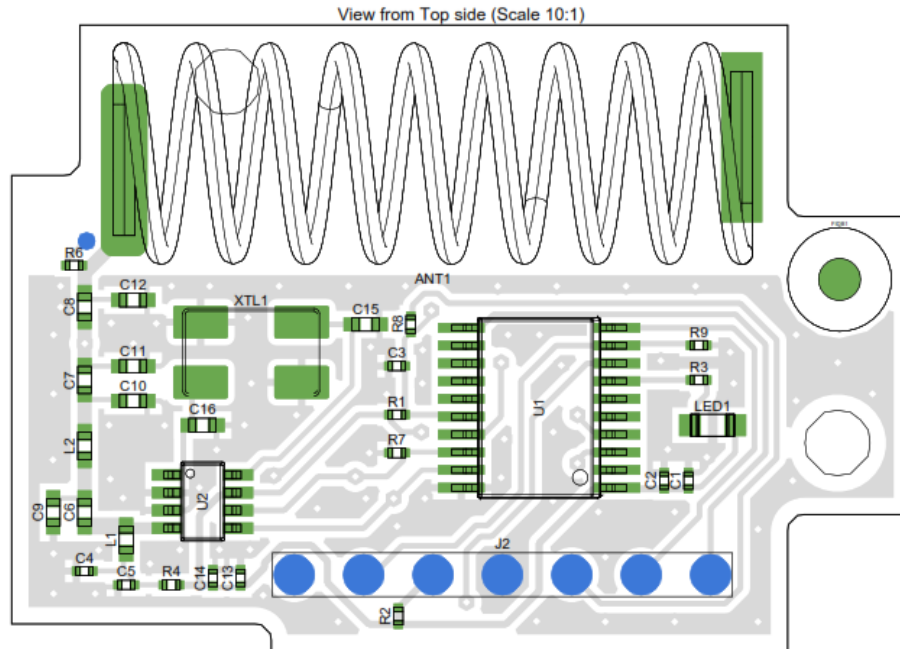


- **Estimated Peak Gain:** -14 dBi
- **Polarization:** Linear
- **Orientation:** Horizontal
- **Frequency Bands Supported:** 319.5MHz

Supporting details and materials

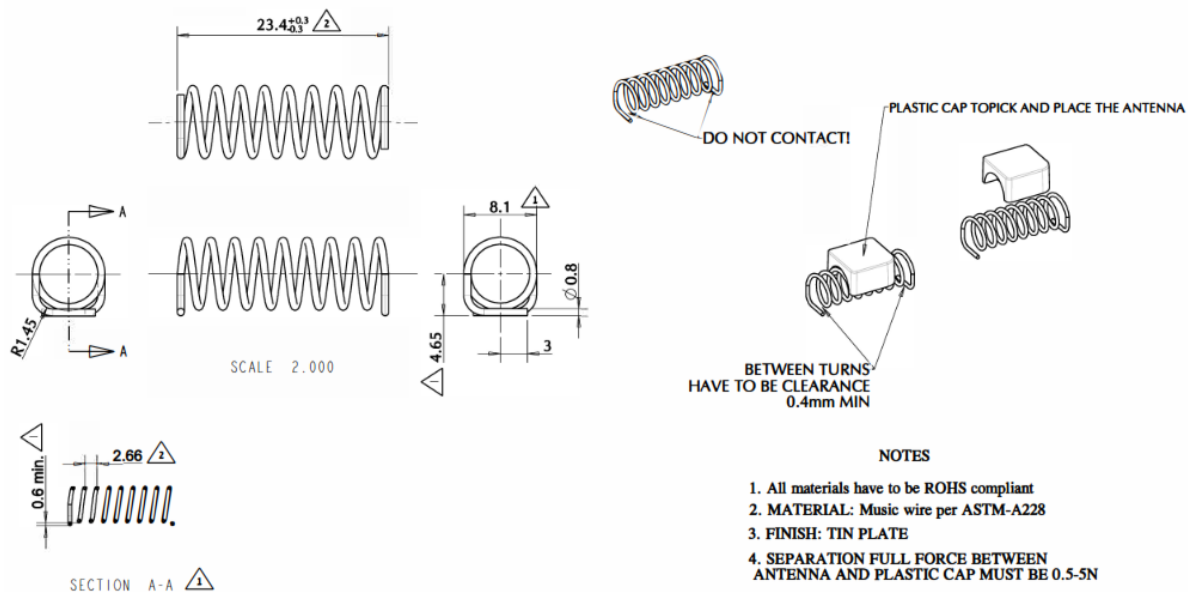
1. PCB Layout Diagrams

- antenna placement on the PCB



2. Antenna Specifications

- electrical and mechanical characteristics





3. Estimated Gain Information

- Derived from reference design or engineering simulations
- No passive reflectors or lenses are used

Compliance Statement

The antenna configuration has not been altered in a way that would affect radiated performance. No external gain-enhancing accessories (e.g., reflectors, lenses) are used. The antenna is permanently affixed and not user-accessible or replaceable.

Should you require any additional information or clarification, please do not hesitate to contact us.

Sincerely,

Dan Nita
Sr. Approvals Manager
Qolsys Inc.
Tel: 416-357-1409
Email: dan.nita@jci.com