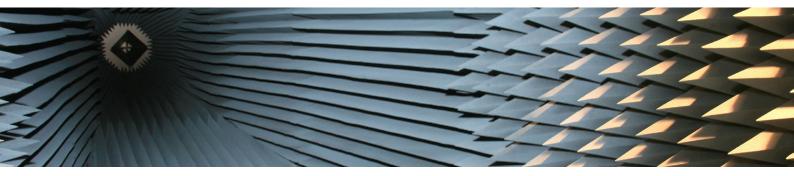
ISA.21

Detailed RF Performance Optimization Review





Service name:

ISA.21

Detailed RF Performance Optimization Review

Deliverables:

Report and interactive technical support

Duration:

3 weeks

Items:

- A Detailed analysis of design documents including schematic, PCB layout, BOM & mechanical models.
- B Specific recommendations from the component level up to the system architecture level in order to minimize the risk of performance problems for all radios in the system.
- √ Schematic recommendations
- ✓ PCB layout recommendations
- √ BOM recommendations
- √ Mechanical recommendations



What is the problem or concern we are addressing?

Taoglas can evaluate and solve issues that relate to the antenna and RF performance, receiver interference and spurious transmitter emissions that cause performance issues.

All wireless, and particularly cellular devices face common performance and certification challenges, regardless of the types of radios being used. These challenges are never obvious and different types of wireless systems and products exacerbate different issues more than others. This service offering is a means to apply the extensive antenna and RF experience of Taoglas to your product.

We can not only identify the source of the problem, but eliminate the problem - or at least suppress the problem enough so it takes out the risk of poor performance.

Specifically, radio systems require an effective antenna, they are subject to radiated interference with the receiver, and they can emit strong spurious, unintended RF signals when transmitting. These issues can happen with cellular, Wi-Fi, narrow-band radios, GPS, any sort of radio. The ISA.21 service can address any type of radio performance issue.

Maintaining product performance itself is not the responsibility of a regulating body. FCC in the US has no test standards for the quality of a receiver. You can build a Wi-Fi or GPS product that passes FCC's requirements but does not actually function efficiently as a Wi-Fi or GPS product. The problem will be identified in the market when users experience "poor range", "no GPS fix", etc. It's not enough to pass regulatory testing; the radio elements of the product have to actually work well.

Taoglas engineering understands these issues at the deeper levels and at the source. We have experience in resolving not just antenna issues or noise issues but system issues. What the problems are, what causes them, how to avoid most of them in the first place and how to mitigate the few that get through.

We can get you to market faster and in a cost effective way by supporting your engineering team dealing with these issues.

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