Technical Bulletin

Improvement of Magnetic Radiation in 4400 series

Sonion is pleased to announce an improvement of Magnetic Radiation in the 4400 series.

Parts effected: 44A004, 44A007, 44A007R, 44A015, 44A030, 44AA004, 44AA007, 44AA015 and 44AA030

Product Description
The 4400 series receiver is the smallest dual receiver in the world. It is an ideal product for RIC and CIC applications. Because of the dual design the gain before feedback in the application will be significantly higher compared to a receiver with a single motor. This enables hard mounting of the receiver and can result in smaller hearing instrument designs.

Change Summary
- Sonion announces an improvement of 10-20dB in the magnetic radiation for the 4400-series.
- There is no effect on other performance parameters. The datasheet will remain unchanged.
- As there are no changes in the parts or the processes there is also no change in reliability performance. And the 4400-series SQC report is still valid (SQC report is available on request).

Date of Implementation
May 2009

Change Introduction
In the period wk20 till wk 31 there is limited capacity to produce the improved version and it is only available on request. In this period the improved products will be marked with an underscore in front of the product number: 44A007 is standard production and _44A007 will have improved magnetic radiation.
The proposal is to fully implement this change in wk31. All parts produced afterwards will have the improved magnetic radiation and the underscore is removed from the part name.

Appendix: Detailed results of magnetic radiation improvement

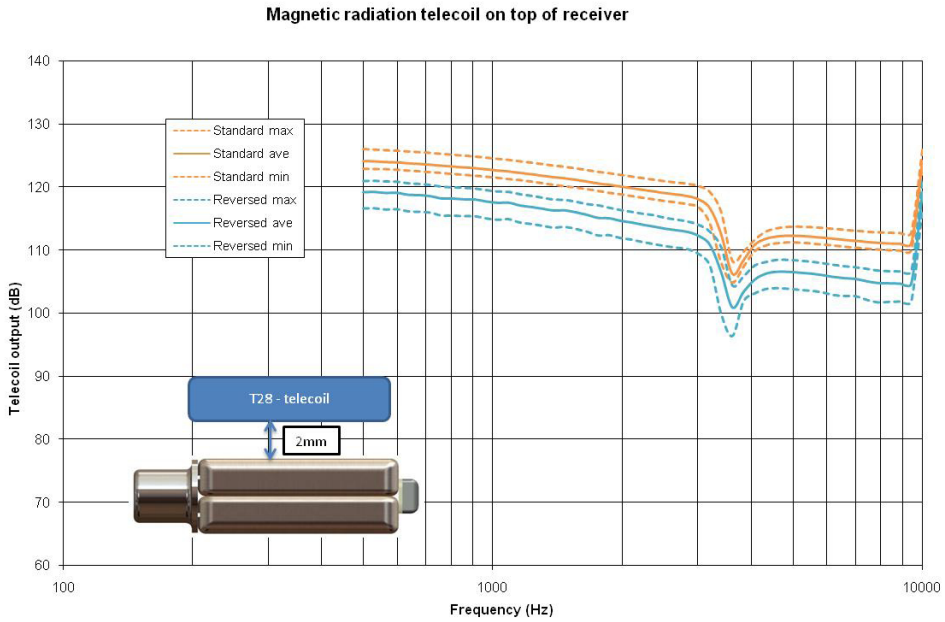

Figure 1. Magnetic radiation of standard 4400 versus improved version. Measured with the telecoil on top of the receiver at 2mm distance. In this position the improvement is 5dB.

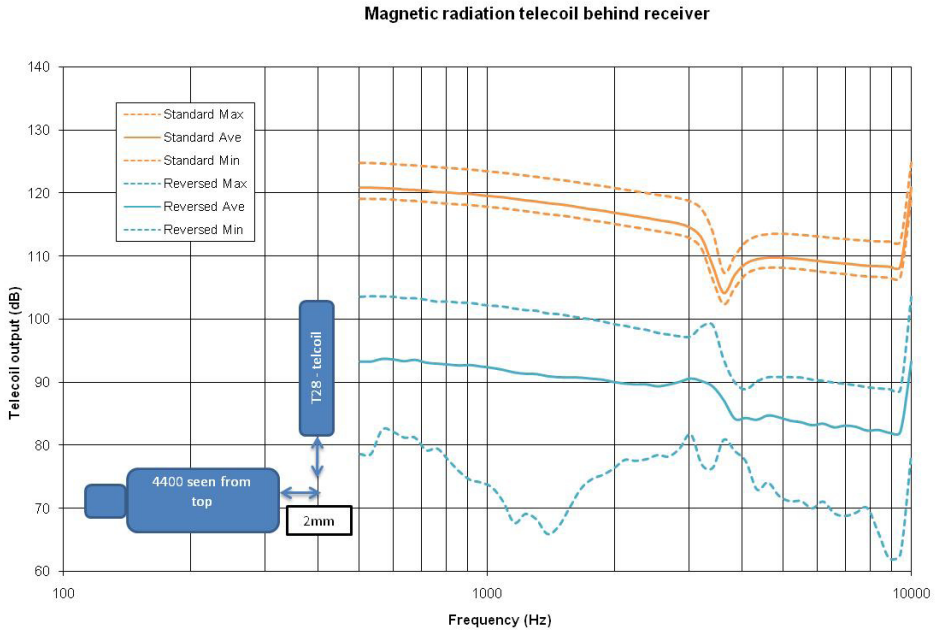

Figure 2. Magnetic radiation of standard 4400 versus improved version. Measured with the telecoil behind the receiver at 2mm distance. In this position the improvement is 20dB.

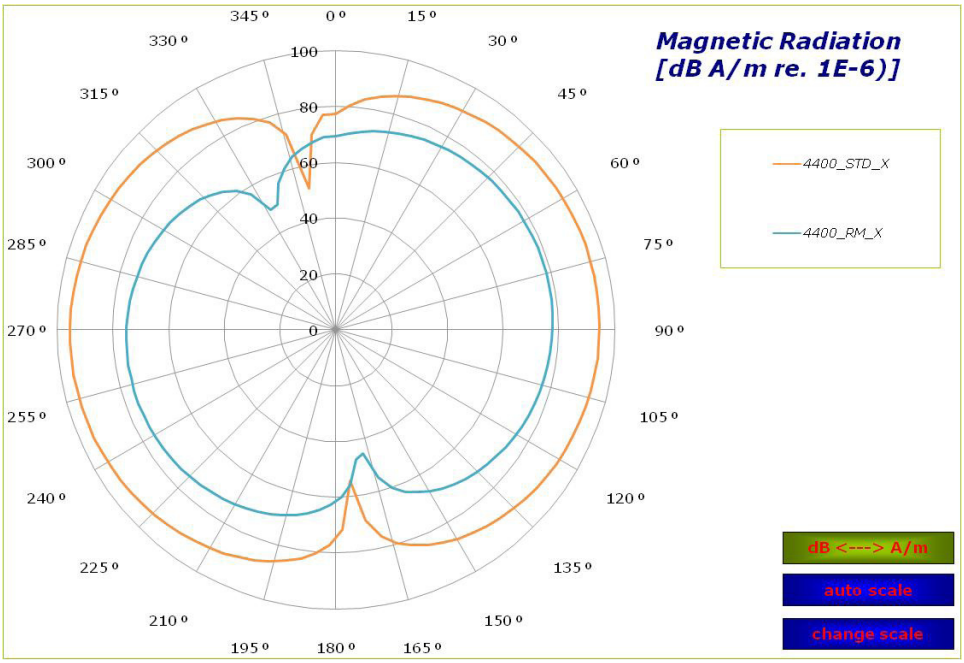

Figure 3. Magnetic radiation at 106dBSPL – x-direction

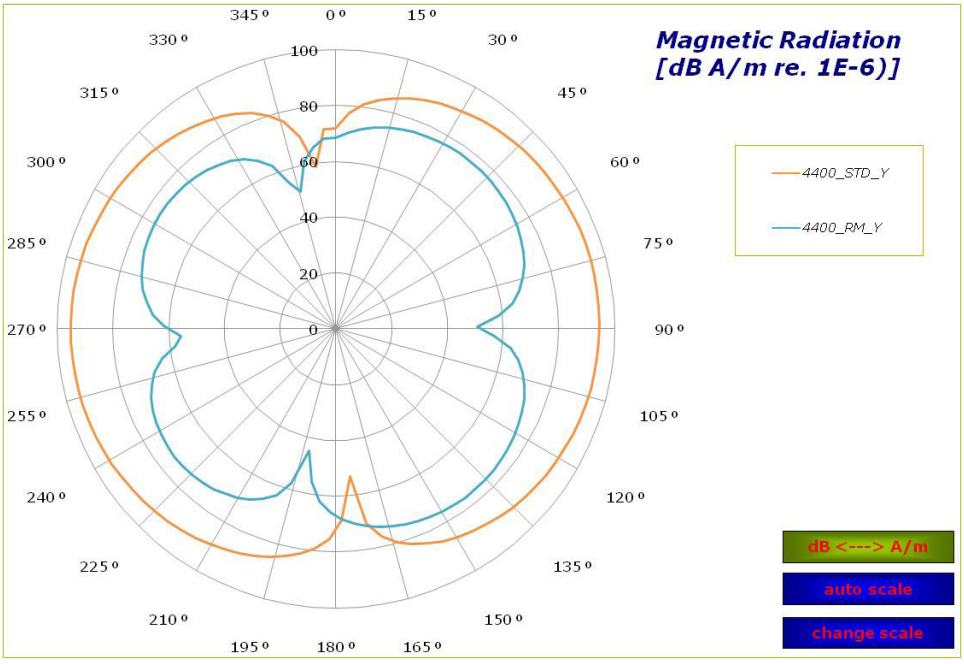

Figure 4. Magnetic radiation at 106dBSPL – y-direction.

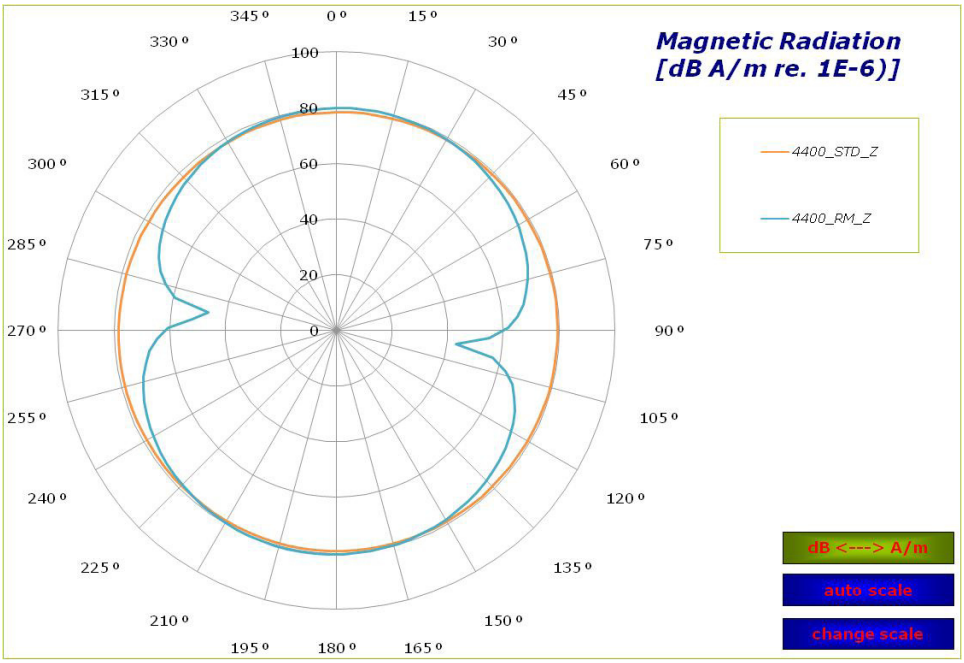

Figure 5. Magnetic radiation at 106dBSPL – z-direction

Further information
Please contact your local sales representative for any questions you may have.