

10 DRA

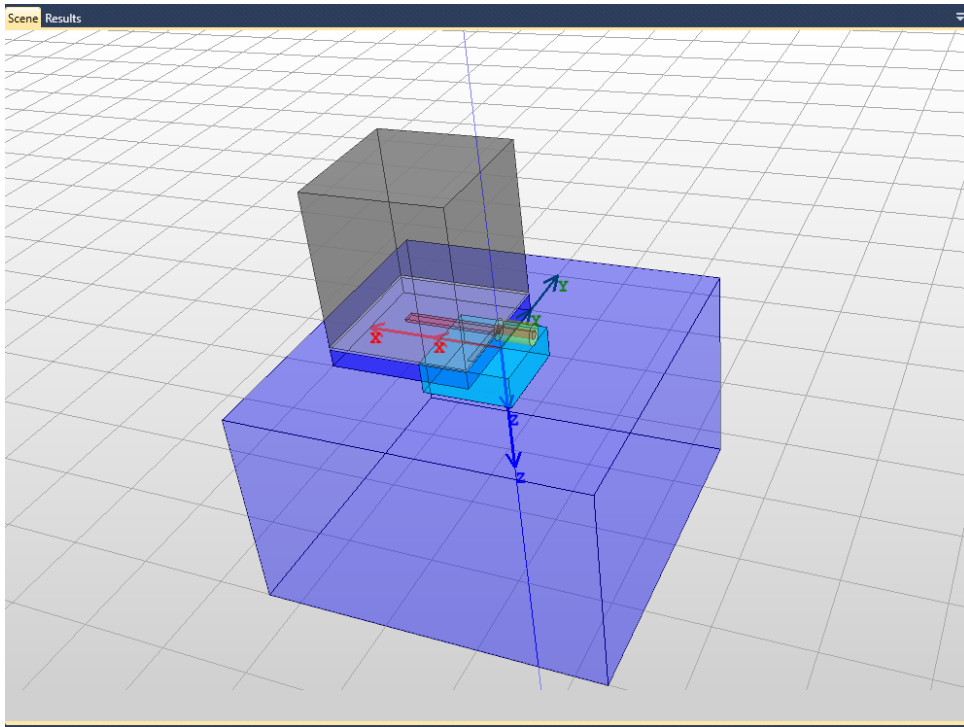


Figure 36: Screenshot of the structure drawn in InventSim

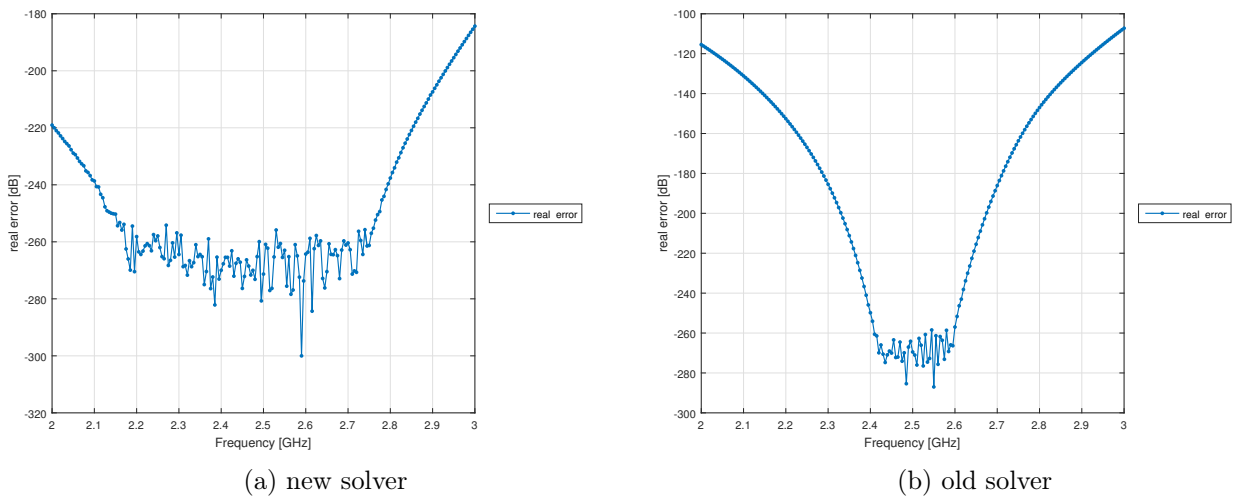
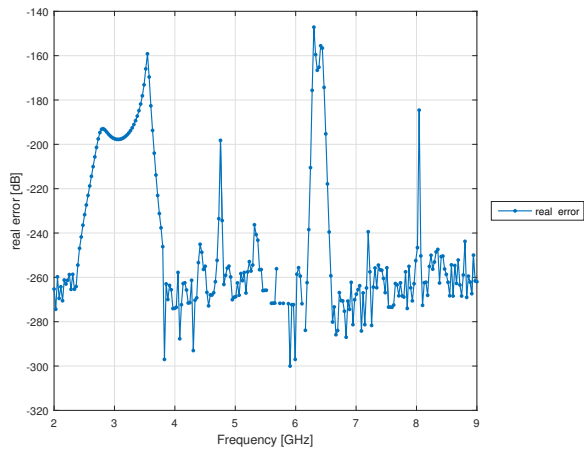
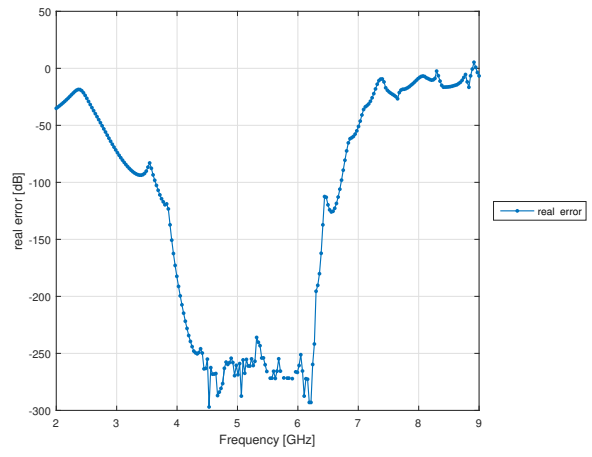


Figure 37: Error rate for bandwidth working



(a) new solver



(b) old solver

Figure 38: Error rate for wide band

11 Pavia Fluid Sensor

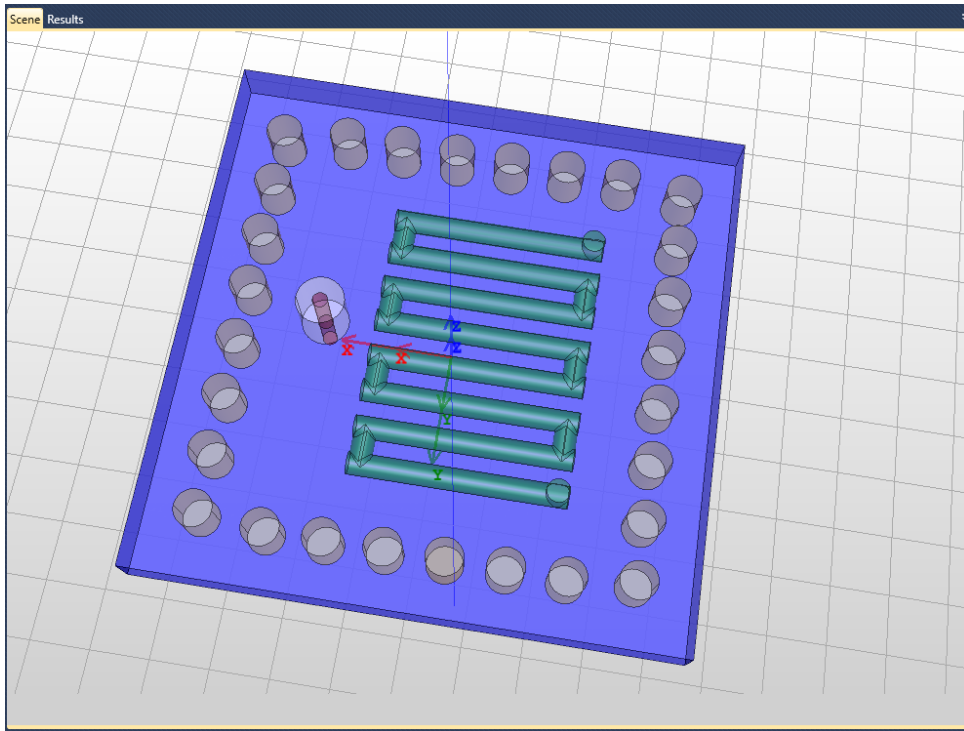
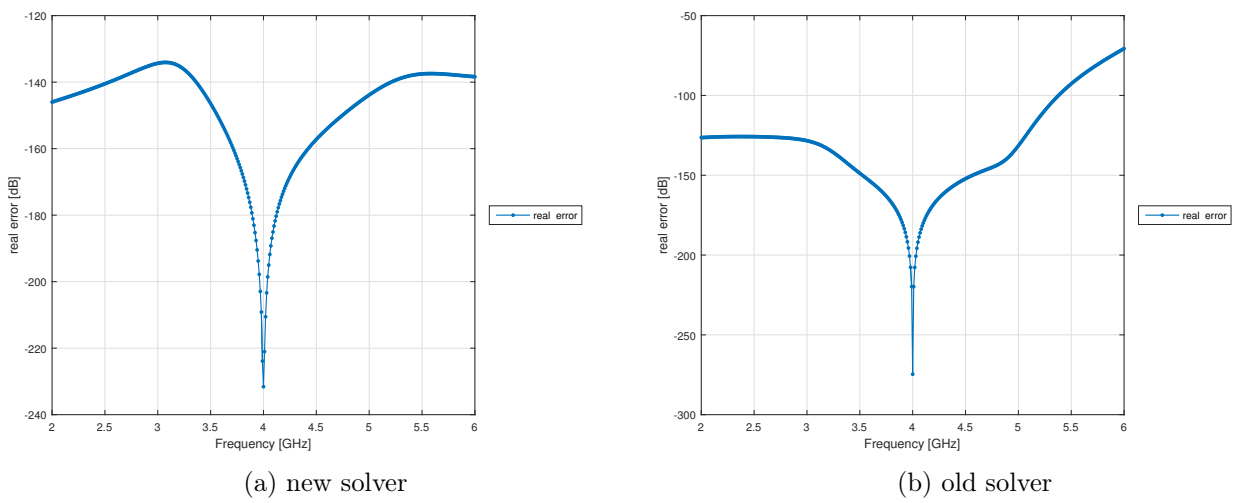


Figure 39: Screenshot of the structure drawn in InventSim



(a) new solver

(b) old solver

Figure 40: Error rate for bandwidth working

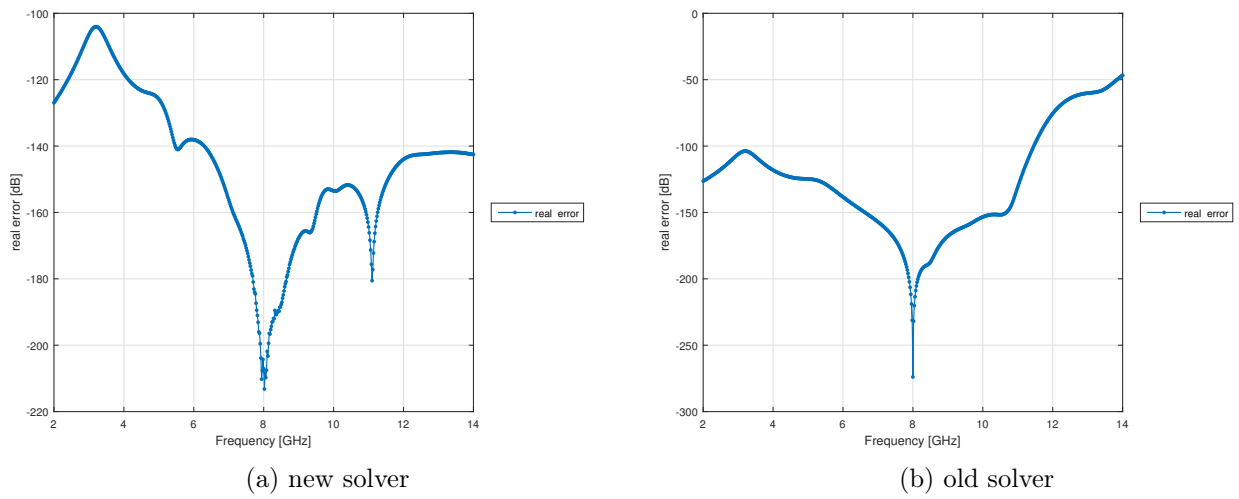


Figure 41: Error rate for wide band

12 simone filter

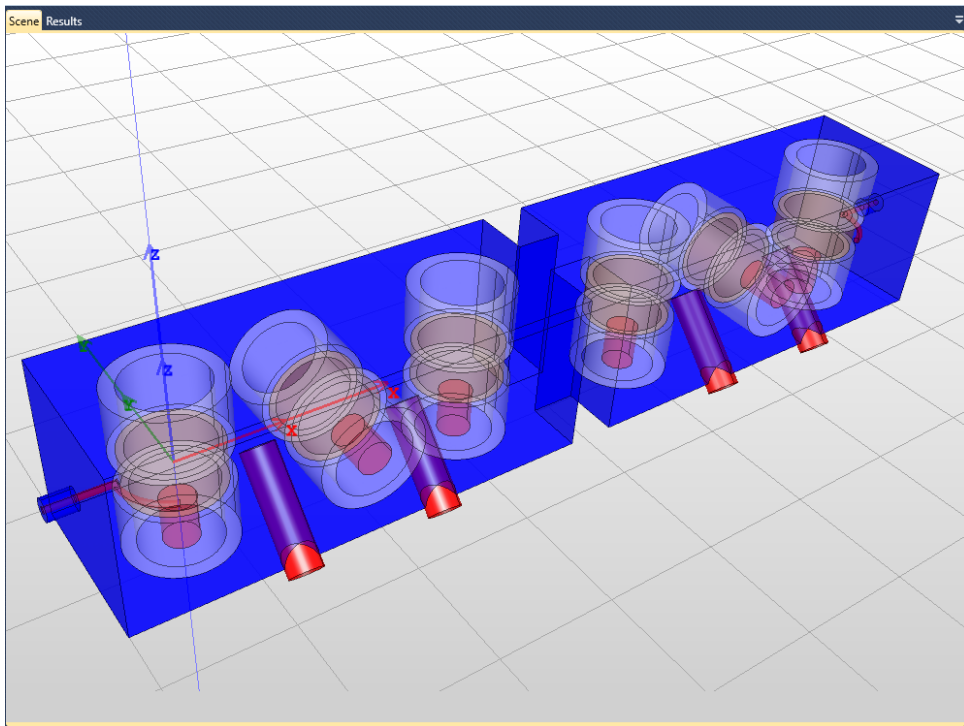
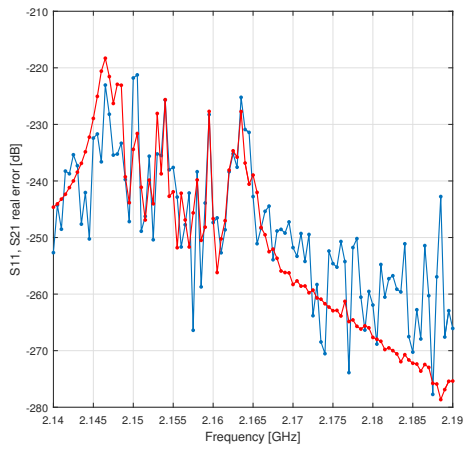
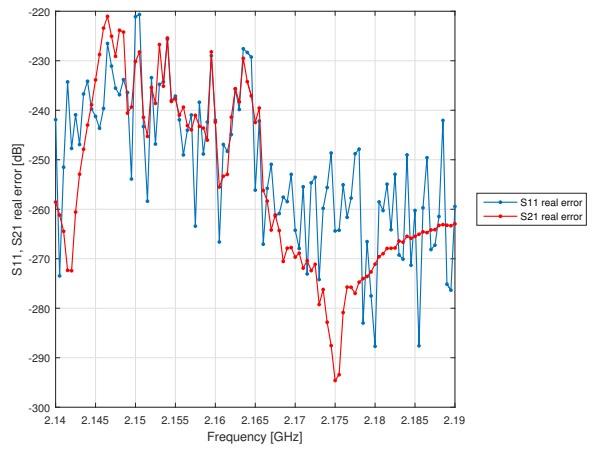


Figure 42: Screenshot of the structure drawn in InventSim

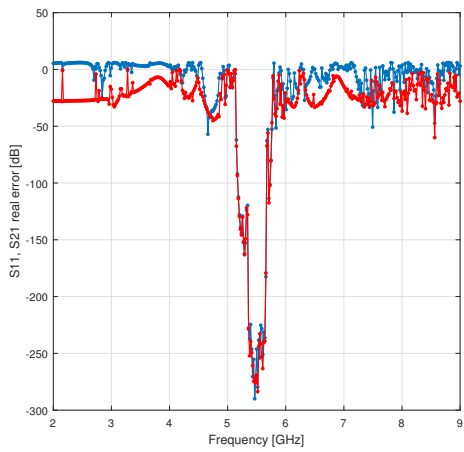


(a) new solver

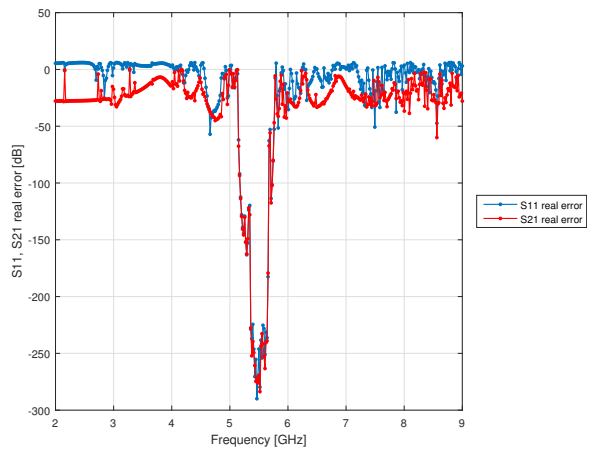


(b) old solver

Figure 43: Error rate for bandwidth working



(a) new solver - too big error



(b) old solver

Figure 44: Error rate for wide band

13 wg folded

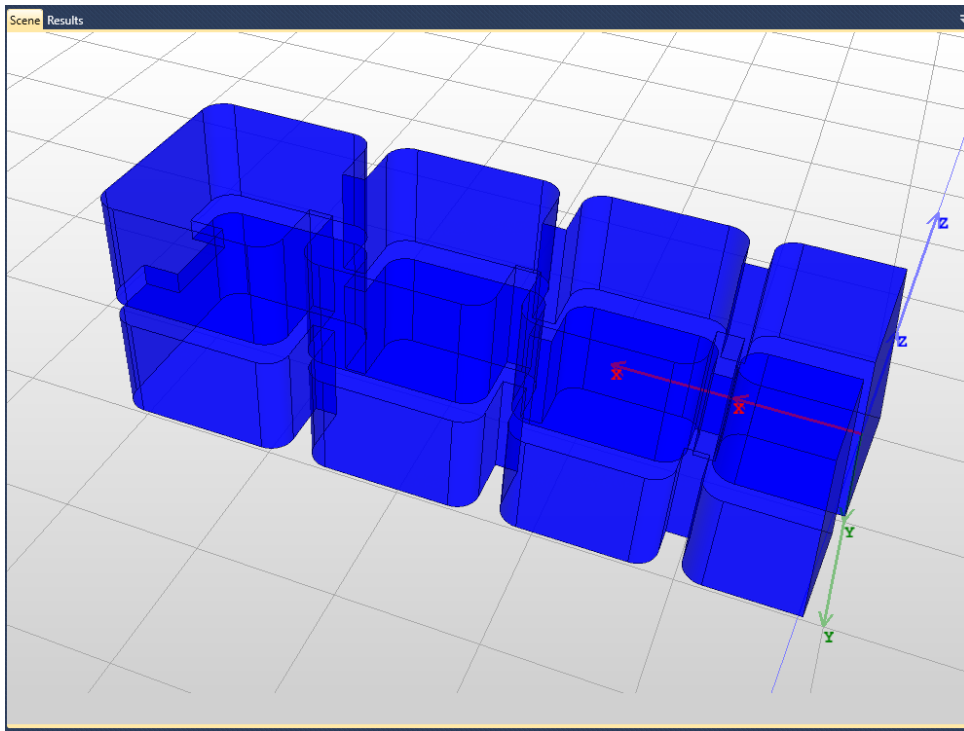
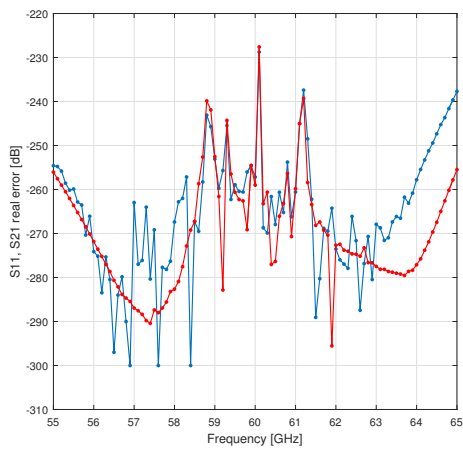
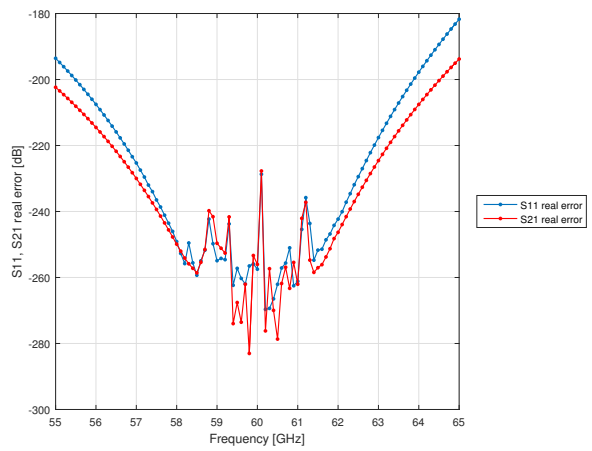


Figure 45: Screenshot of the structure drawn in InventorSim

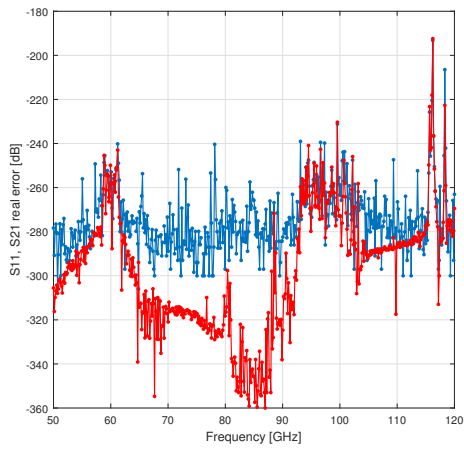


(a) new solver

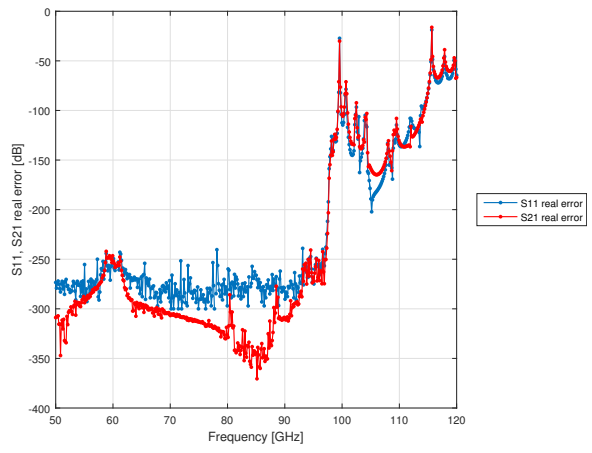


(b) old solver

Figure 46: Error rate for bandwidth working



(a) new solver



(b) old solver

Figure 47: Error rate for wide band

References

- [1] A.M.B. Al-Hariri, A.D. Olver, P.J.B. Clarricoats „Low-attenuation properties of corrugated rectangular waveguide”, Electronics Letters (Volume: 10, Issue: 15, Pages: 304 - 305, July 25 1974),
- [2] W. J. Wu, R. Zhang, X. X. Fan, "A high stop-band suppression W-band waveguide E-plane filter for millimeter-wave applications", Microwave and Millimeter Wave Technology (ICMMT), 2016 IEEE International Conference on
- [3] Ahmet Aydoğan, Funda Akleman, Serkan Yıldız, "Dielectric loaded waveguide filter design", Fundamentals of Electrical Engineering (ISFEE), 2016 International Symposium on