

Radiation from TWP Cable to Planar Glass Antenna

Problem Definition

Radiation from TWP N.901.916 cable to simple planar glass antenna is considered. Simulation results are obtained by Radiation Hybrid Analysis Type and compared with measurement data.

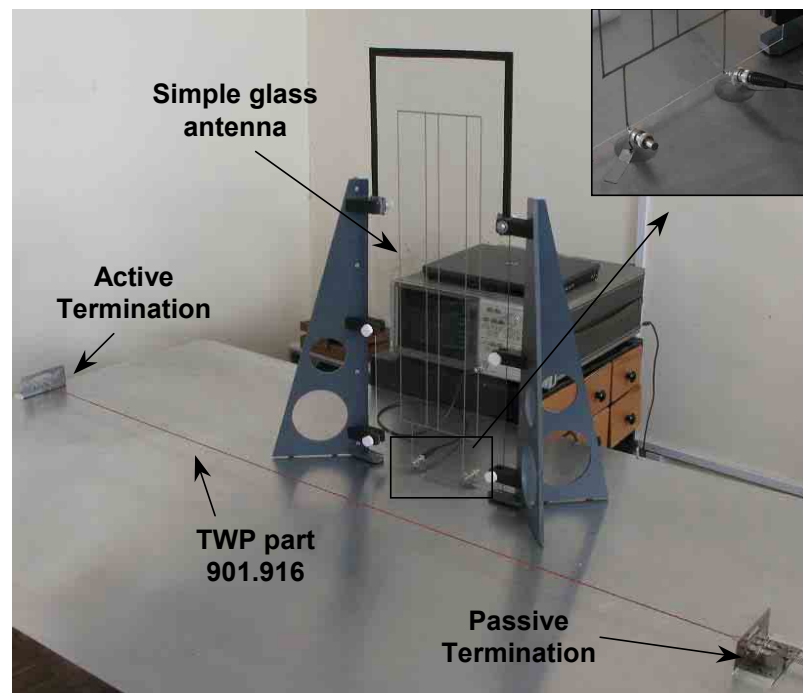


Fig. 1. TWP cable and planar glass antenna



Fig. 2. Active termination



Fig. 3. Passive termination

Electromagnetic interference between cable harness and single wire is measured in EMCoS measurement laboratory. Simulation model is represented in the following figure.

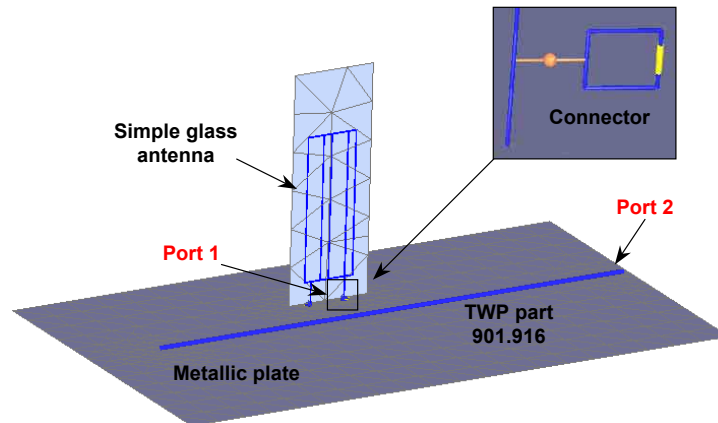


Fig. 4. Hybrid model

Numerical Results

Comparison of simulated transmission coefficient between cable and antenna simulation results with measurement data is shown below.

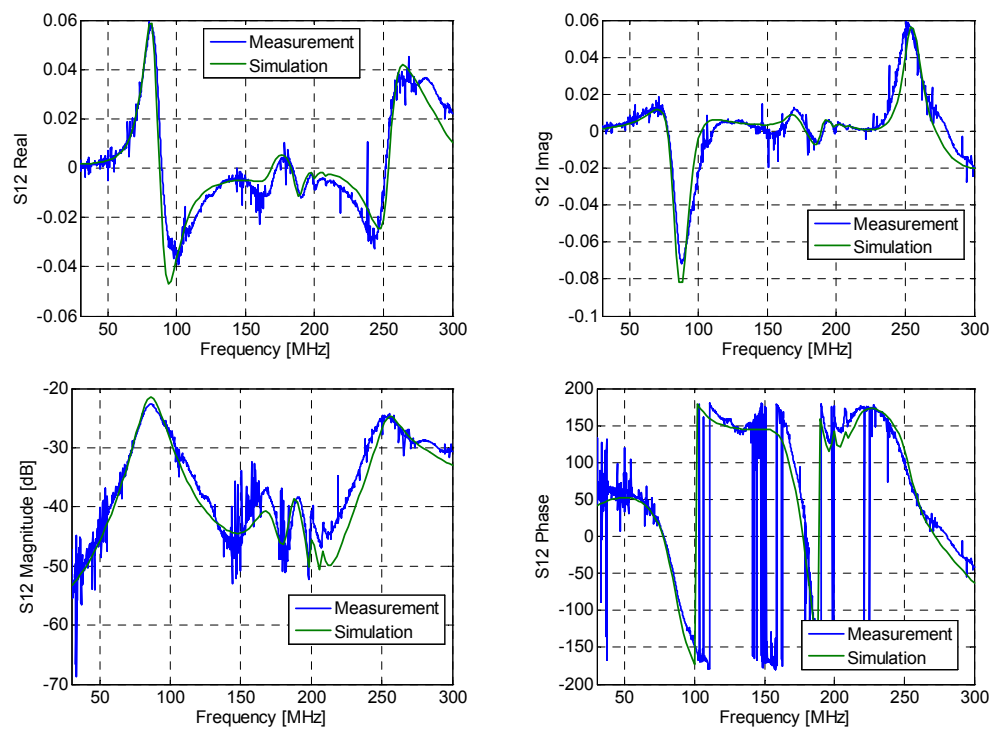


Fig. 5. Transmission coefficient (S_{12})

Conclusions

Results of application example show that simulation results are in good agreement with measurements.