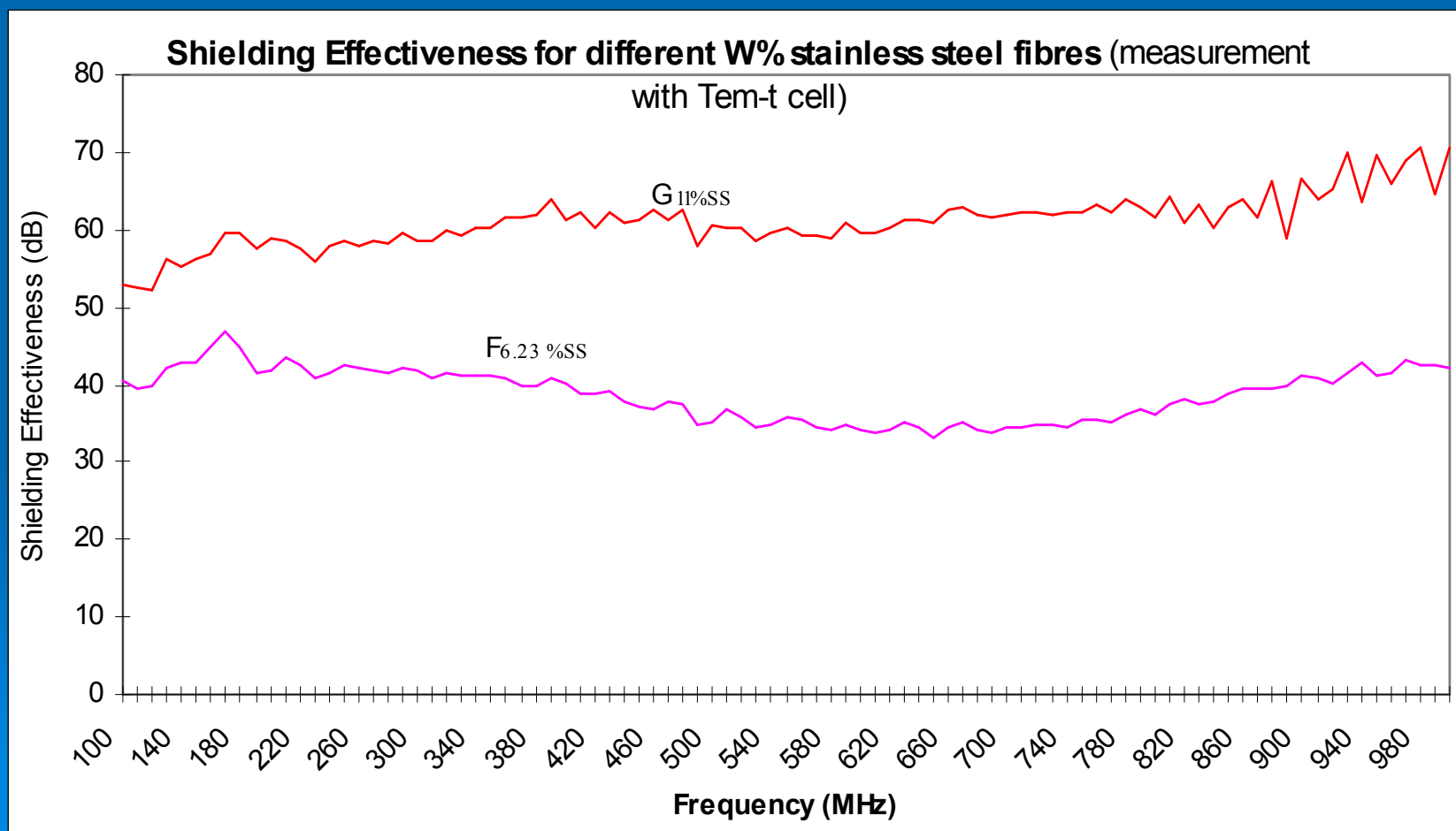
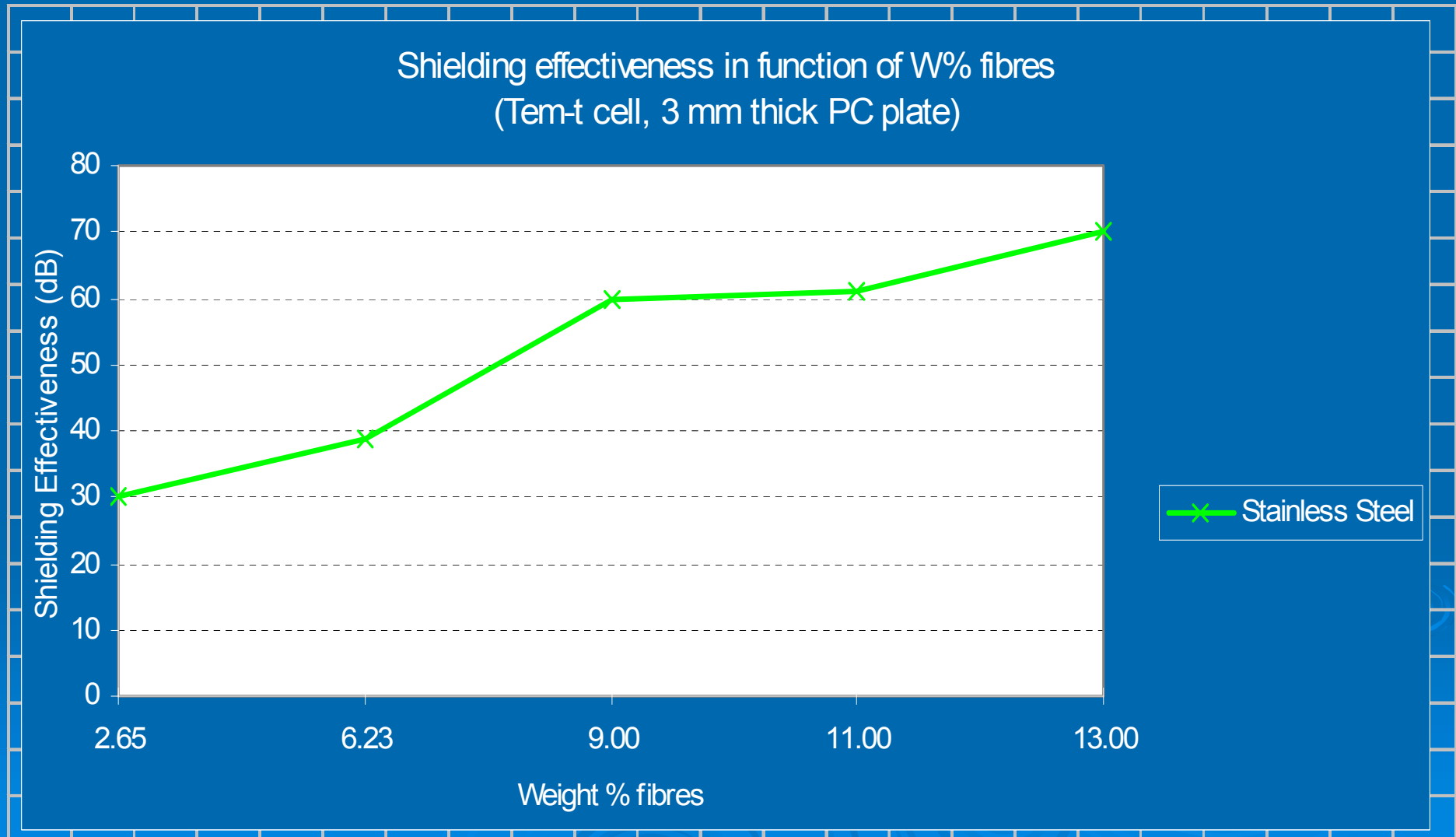


# EMI Shielding

Shielding effectiveness of 11 and 6.23 weight% stainless steel SS fibres in 3 mm thick injection moulded polycarbonate plates (measurement with Tem-T cell)



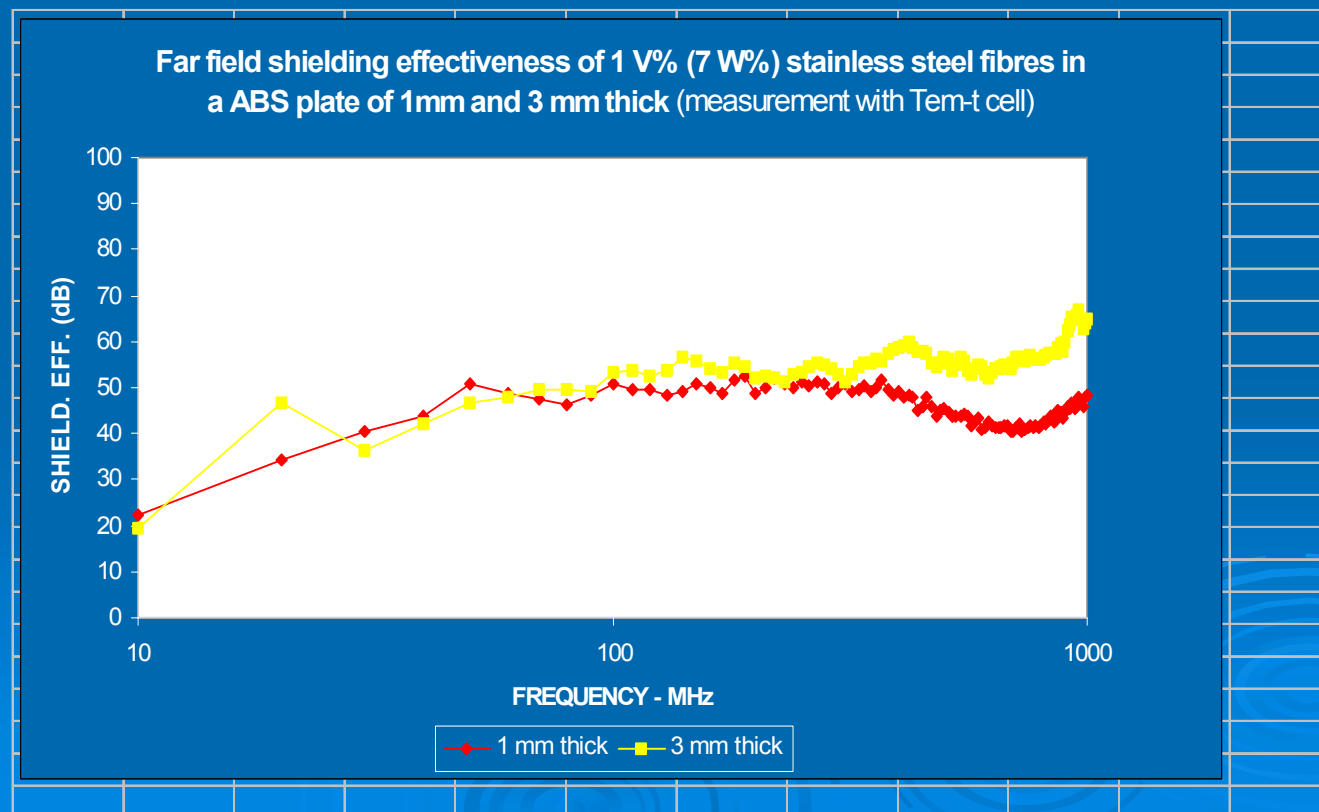
# EMI Shielding



# EMI Shielding

Shielding effectiveness of conductive plastics is influenced by the wall thickness

- shielding= reflection + absorption
- absorption of EM waves is proportional with wall thickness
- absorption components more important at higher frequencies



# EMI Shielding: Near Field

## H-field shielding

- Quasi-static field: shielding is proportional with frequency and independent from magnetic permeability  $\mu_r$
- Static fields: shielding dependent from  $\mu_r$  ( $\mu_r \gg 1$ ) and wall thickness  
=> use of high  $\mu$  metals

