

UWB Antennas @ I²R

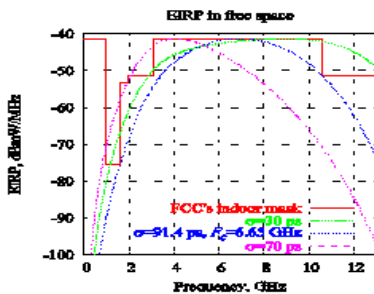
(Institute for Infocomm Research, Singapore)

Fundamental R&D

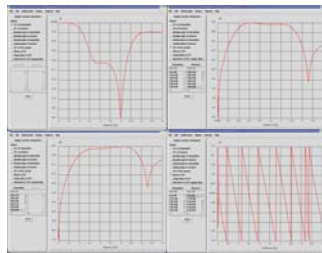
- Design Considerations
- Pulse Optimization
- Time-domain Methods
- Measurement Methodology
- Antenna vs wireless systems



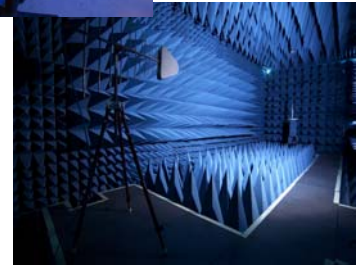
3-D Far-field Measurement System



Compliance with the emission limits



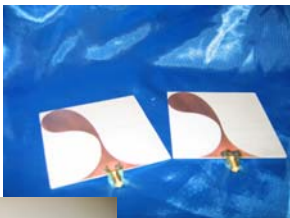
CAD tool: PULSE KIT



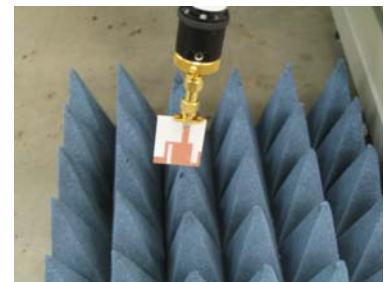
Antenna System

Antenna Design

- Small & Planar Design
- Omni-directional Design
- Directional Design
- Antenna Arrays
- Co-design with filter

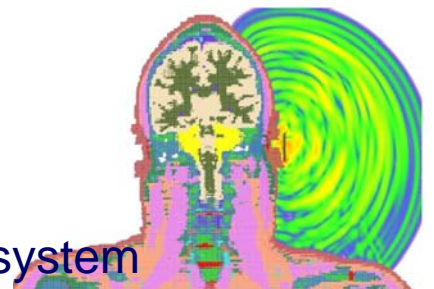


UWB Antenna Designs



Applications

- Effect of human body
- Wearable UWB system
- Mono-station positioning system
- Multiple Antenna Systems



Human body effects on antenna