

# *Microwave Through Wall Detection Technology*

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# Microwave Through Wall Detection Technology

## Rescue Systems on the Base of Continuous Wave Radar

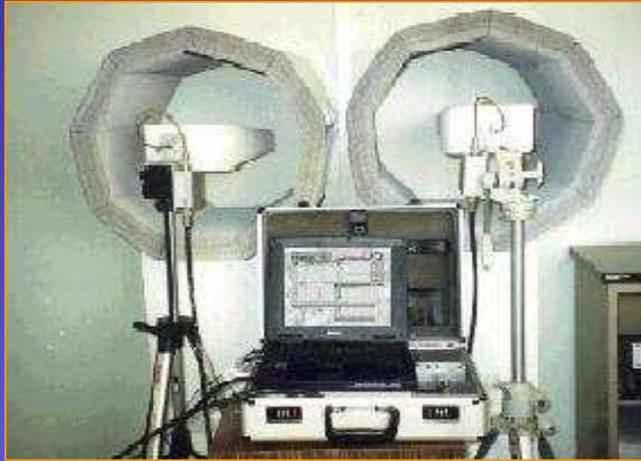
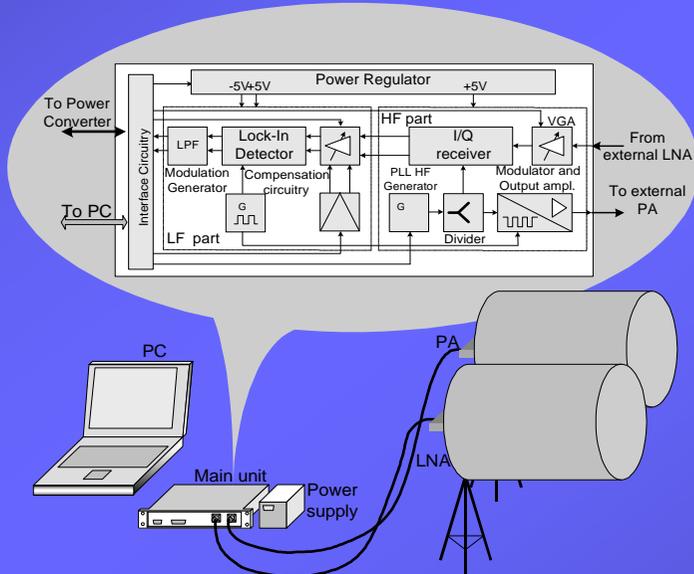
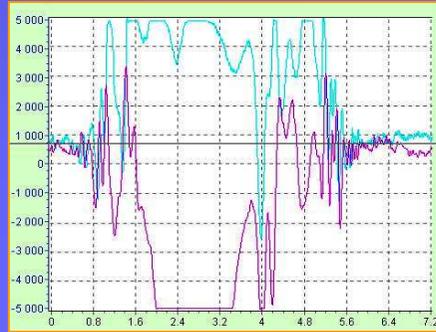


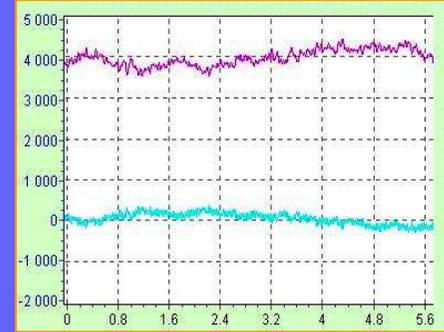
Photo of rescue CW radar.



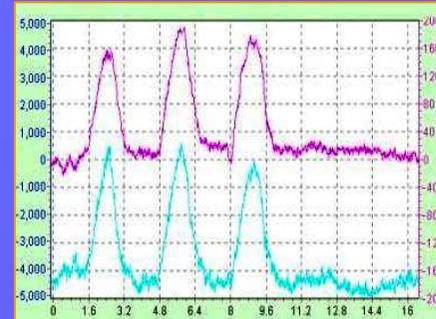
Schematic view of hardware parts of the system.



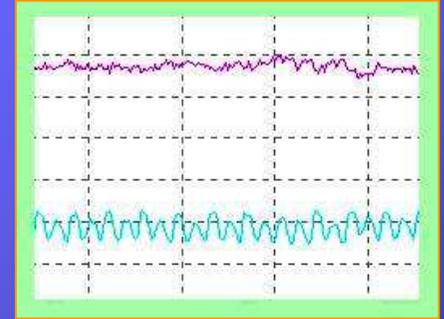
Reflected signal from running human behind two walls.



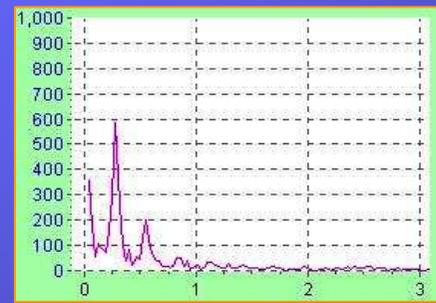
Signal from dual diode modulator (f=28Hz) behind two walls.



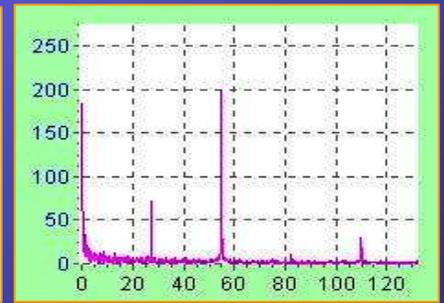
Humans breathing behind wall.



Time-domain form of the signal.



Spectrum of humans breathing.



Spectrum of the signal.

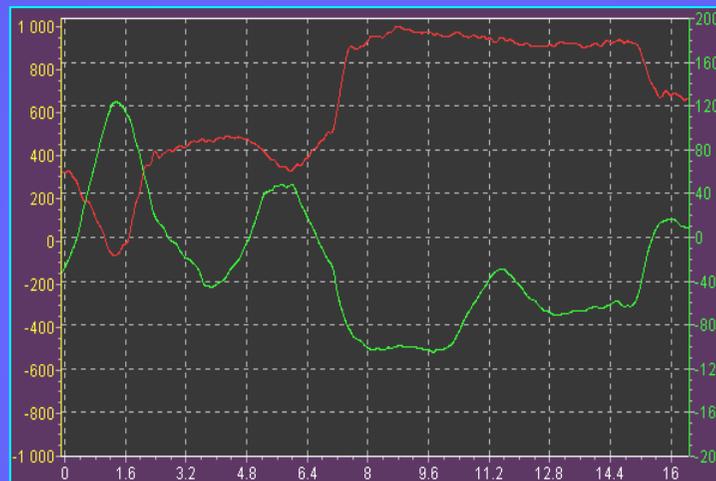
# Microwave Through Wall Detection Technology

## Rescue Radar Operation



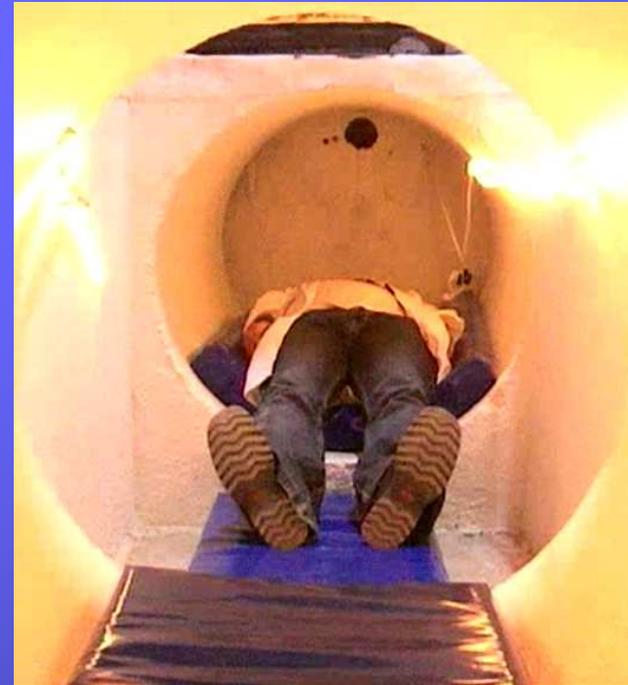
# Microwave Through Wall Detection Technology

## Underground Detection



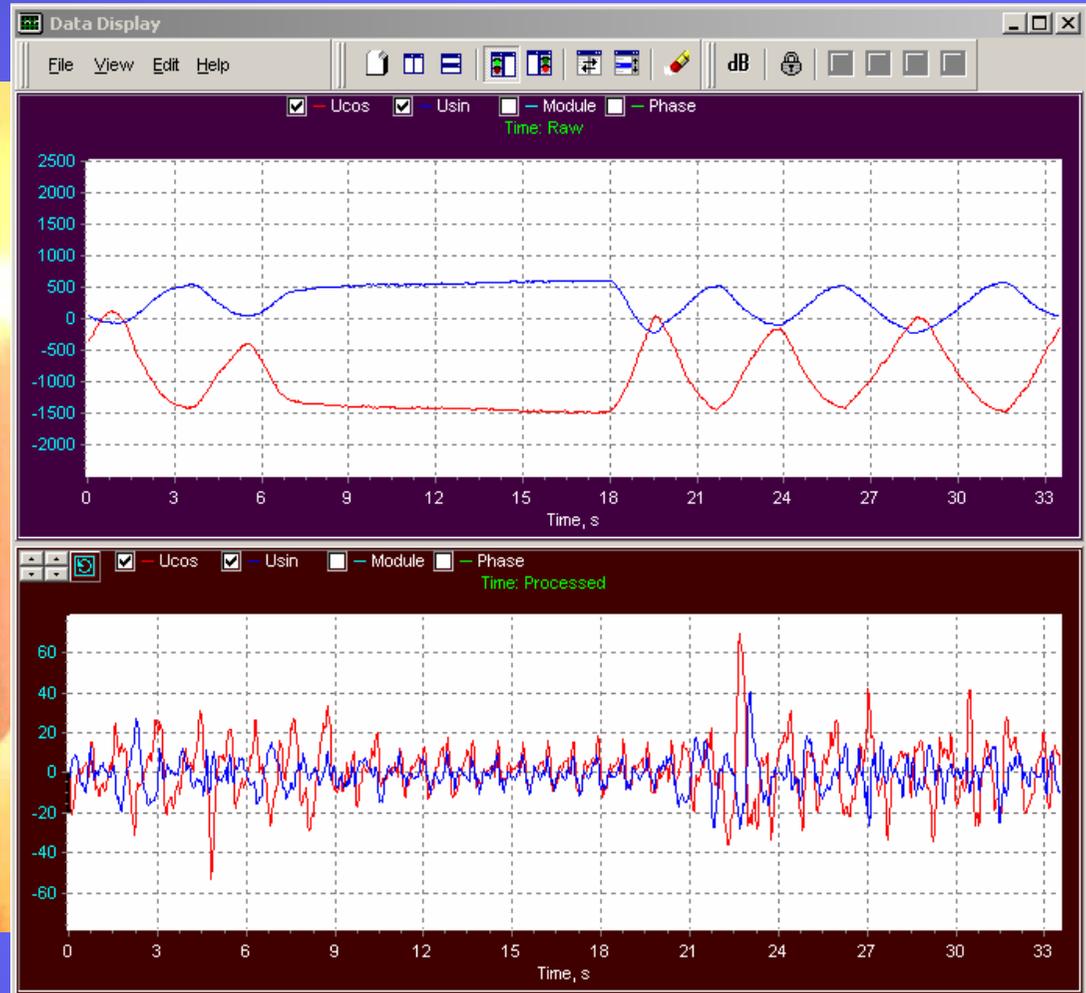
# Microwave Through Wall Detection Technology

## Underground Detection



# Microwave Through Wall Detection Technology

## Underground Detection



# *Microwave Through Wall Detection Technology*

## Test Area for Through Wall Imaging and Detection



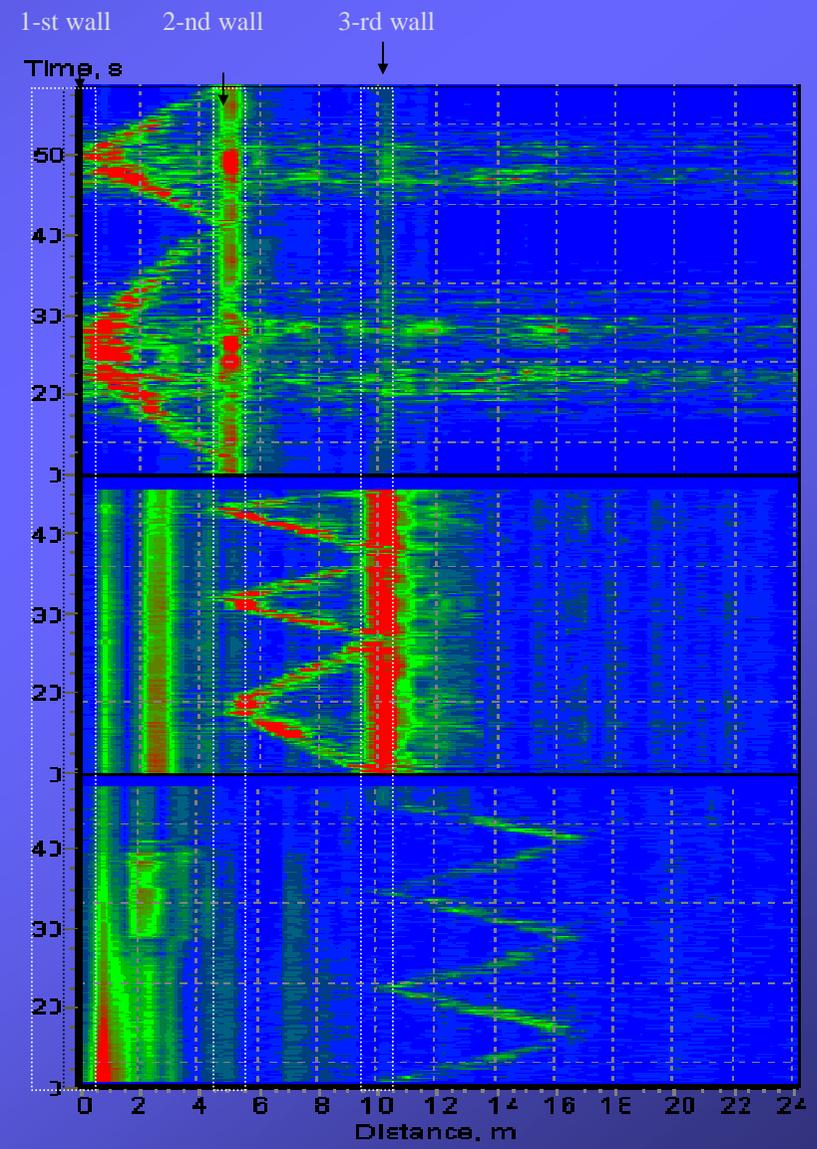
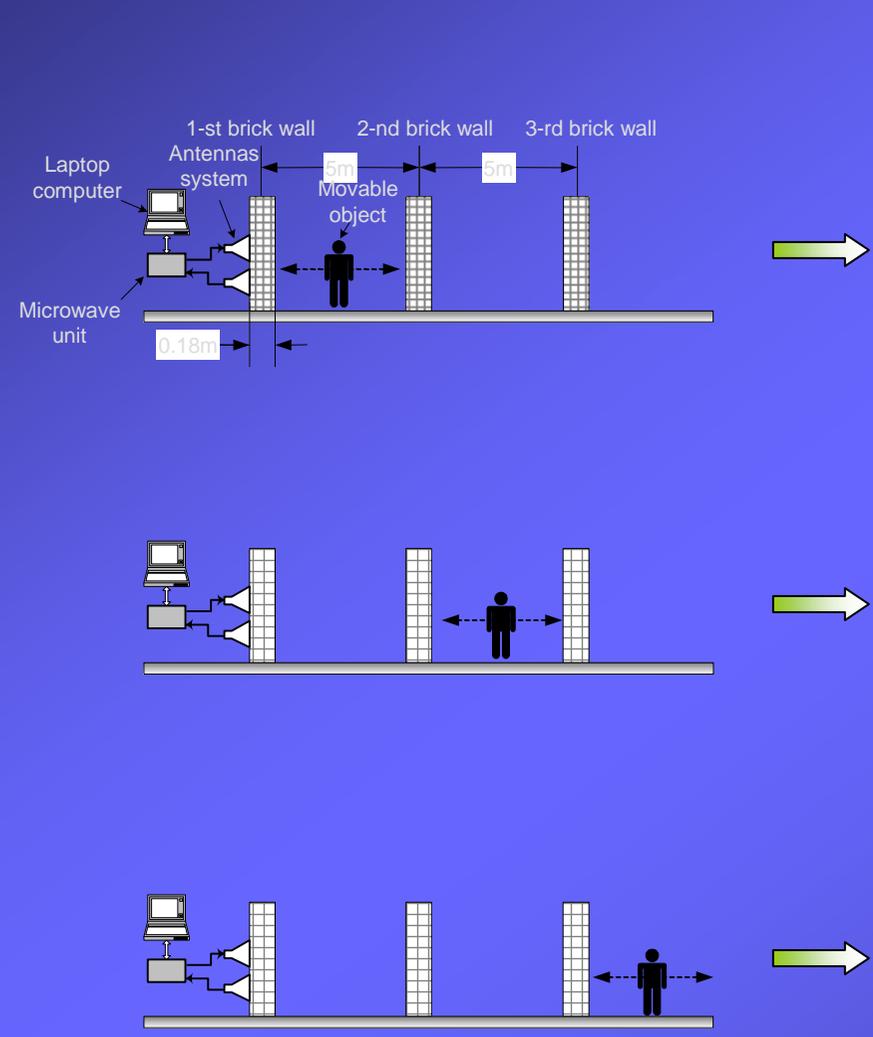


# Microwave Through Wall Detection Technology



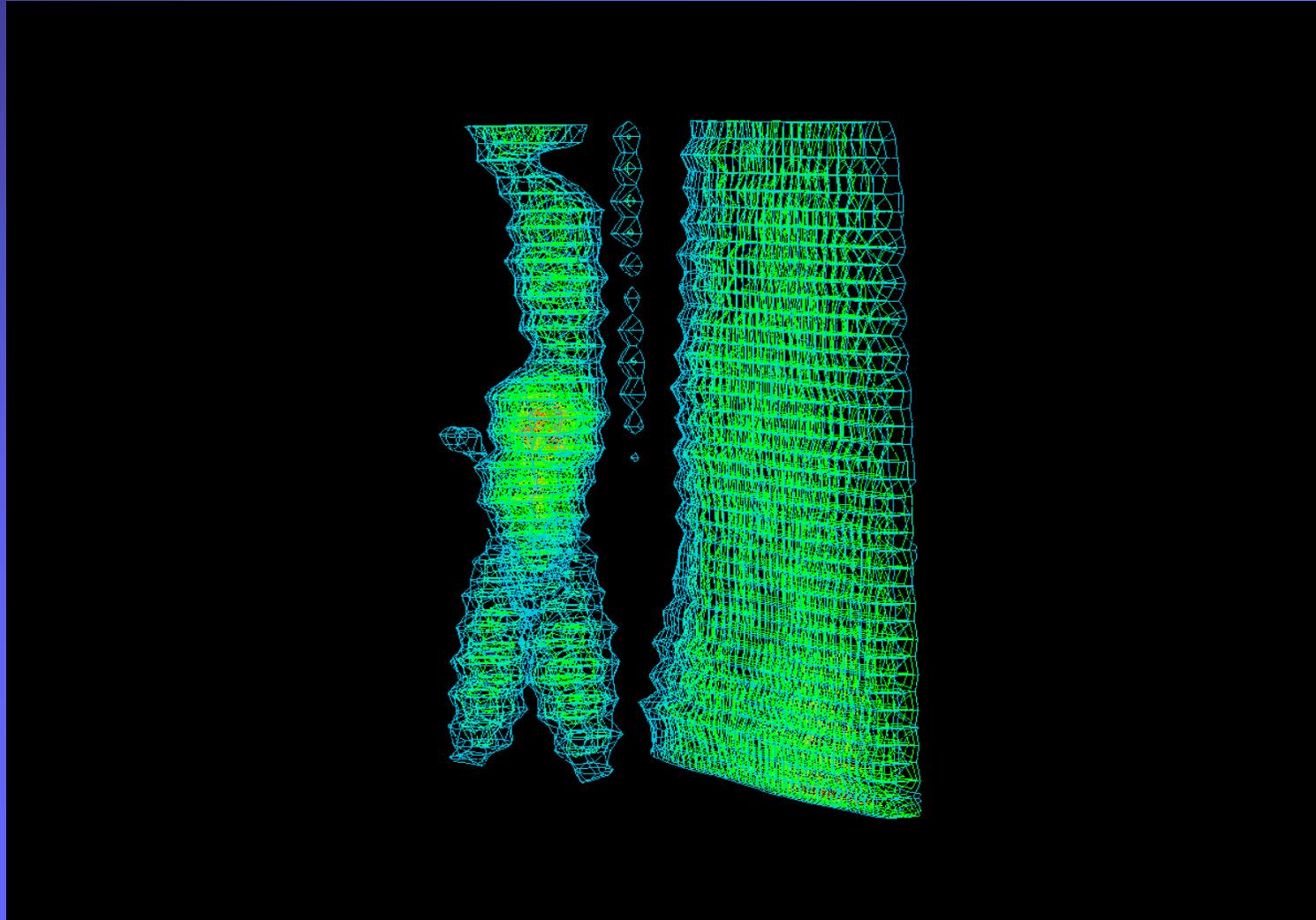
# Microwave Through Wall Detection Technology

## Detection of Person in Between of few Brick Walls



# Microwave Through Wall Detection Technology

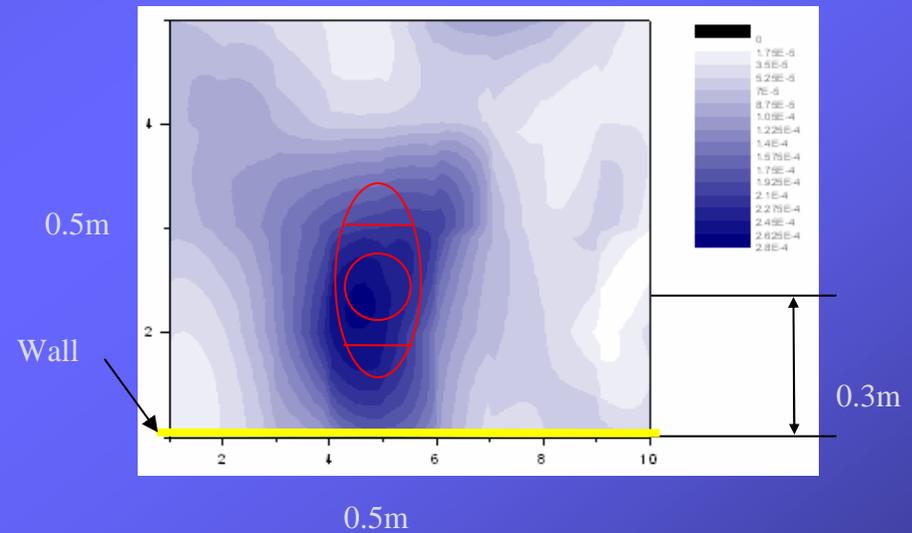
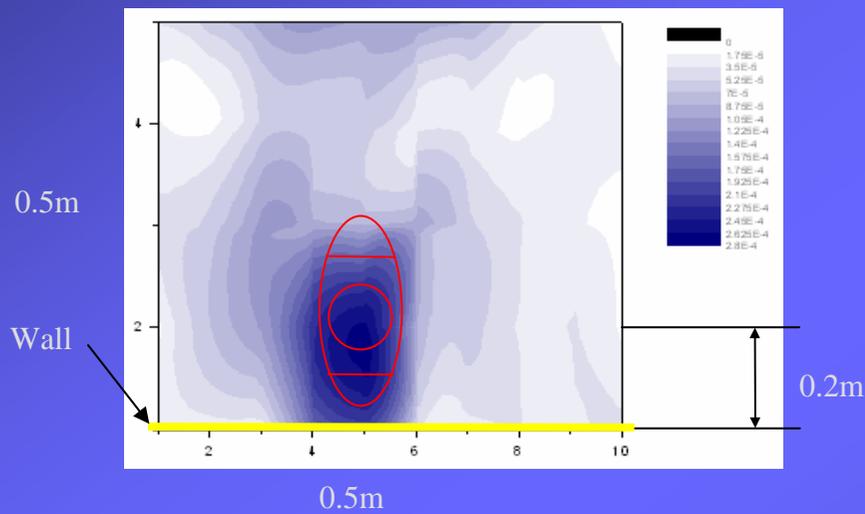
## Through Wall Imaging (Microwave Tomography)



A standing person behind the board 3D image (2-5 GHz)

# Microwave Through Wall Detection Technology

## Detection of moving person behind the wall by using of Tomography method



Frequency range 2-4 GHz

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