



## Anechoic Chamber and Millimeter Wave Hall

The radar signature describes how the waves emitted by the radar are dispersed on an object. This information shows if and in what form the irradiated object is seen by the radar. Measurements are made in an environment with as little interference as possible: the anechoic chamber or the millimeter wave hall. This infrastructure can also be used to measure antenna characteristics.



Model aircraft in the anechoic chamber



Measurement of tank radar signatures



Measurement of antenna directional response patterns

### Technical data

- Dimensions of anechoic chamber  
l x w x h: 10 m x 4.5 m x 4.5 m
- Dimensions of millimeter wave hall:  
l x w x h: 35 m x 20 m x 8 m  
Diameter rotary table: 7 m  
Payload rotary table: 70 t
- Frequency range:  
0.1 to 40 GHz and 92 to 96 GHz
- State-of-the-art measuring equipment  
(network analyser, control software)

### Characteristics / description

- Evaluation and characterisation of radar signature
- Research assignments, tests and investigations both in military and civilian applications of signature management and antenna measurement
- Typical measurements
  - RCS measurements (small models, drones, reference bodies, military vehicles)
  - Measurement of antenna directional response patterns
  - Characterisation of radar camouflage materials (nets and coatings)
  - Synthetic aperture radar measurements