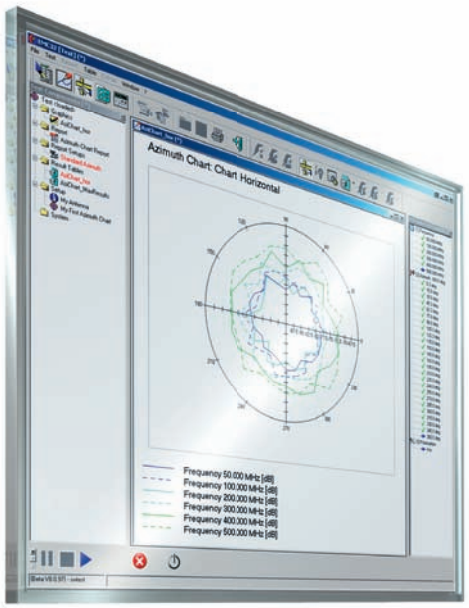
# R&S®EMC32-K22
# Azimuth Chart
# Measurement of RF radiation patterns of EUTs

The R&S®EMC32-K22 option expands the EMI auto test with the capacity to measure the RF radiation pattern and display it in a polar diagram. The existing EMC test system can thus be used also for antenna measurements. The option contains methods for measuring passive antennas and for measuring integrated antennas in mobile phones. In EMI measurements with peak detector, the EMI of the EUT can be spatially assigned, allowing targeted disturbance suppression.

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# R&S®EMC32-K22 Azimuth Chart

## At a glance

### Integrated measurement methods

**Passive antennas**

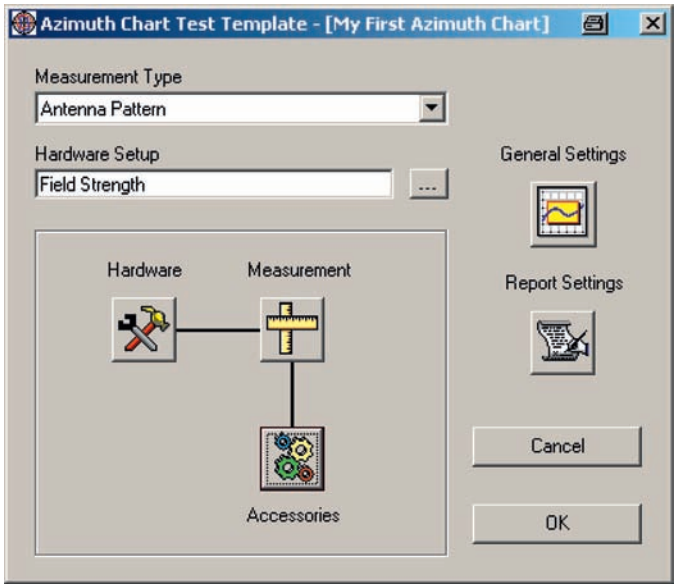
When measuring the RF radiation pattern of passive antennas, the transmit antenna is fed by a signal generator that functions synchronously to the measuring receiver.

**Integrated antennas in mobile phones**

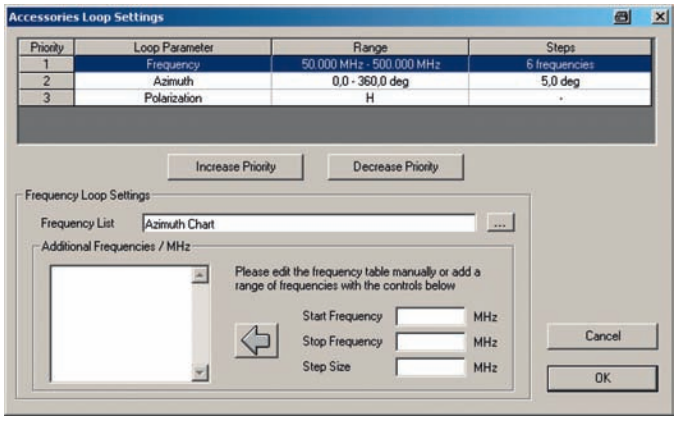
A communications analyzer is used to set up a connection in the allocated channel, and the radiated power is subsequently measured either on different channel frequencies or on the harmonics.

**Assignment of disturbance**

In EMI measurements, the disturbance can be spatially assigned on the basis of a frequency table containing the previously determined disturbance frequencies.




Test template for measuring the radiation pattern.




Intuitive configuration of test parameters.

## Recording RF radiation patterns

To record the RF radiation patterns of an EUT in a plane, the EUT is rotated and the respective emission values are determined. To achieve the optimal test sequence, the test sequence order (frequency loop, turntable positions, polarization) can be individually defined by the user.

## Determining the emission values

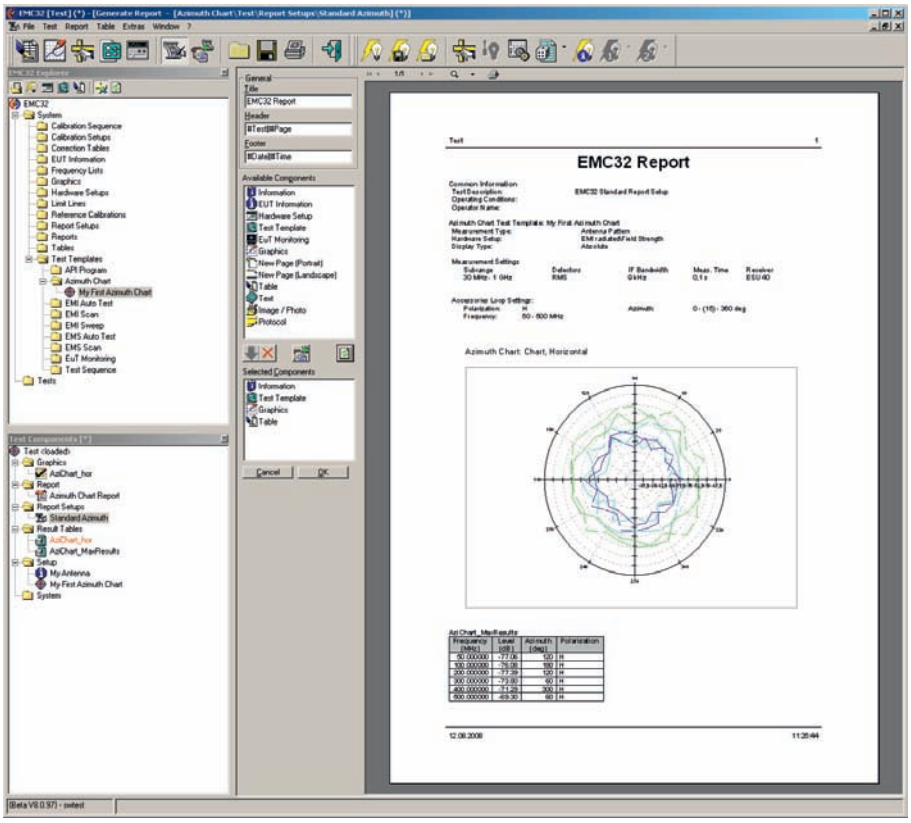
Data is recorded as a series of individual measurements using a measuring receiver or spectrum analyzer. In the case of a spectrum analyzer, the Zero Span function is used.

## Display as polar diagram

During the measurement, the test results are displayed in a number of polar diagrams, for example one diagram per polarization. Each track in a diagram represents the measured level at the azimuth position. Different test frequencies are displayed in different tracks in a diagram.

## Ordering information

| Designation | Type | Order No. |
|---|---|---|
| **Azimuth Chart**<br>Measurement of RF radiation patterns of EUTs | R&S®EMC32-K22 | 1117.7646.02 |
| To run the R&S®EMC32-K22 software option, the R&S®EMC32-EB basic package for EMI measurements is required.<br>For measurements on mobile phones, the R&S®EMC32-K2 software option is also required. | | |




R&S®EMC32 test report with polar diagram of RF radiation pattern.

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*0.14 €/min within German wireline network; rates may vary in other networks (wireline and mobile) and countries.