5.2 Field strength of the fundamental wave

For test instruments and accessories used see section 6 Part **CPR 1**.

5.2.1 Description of the test location

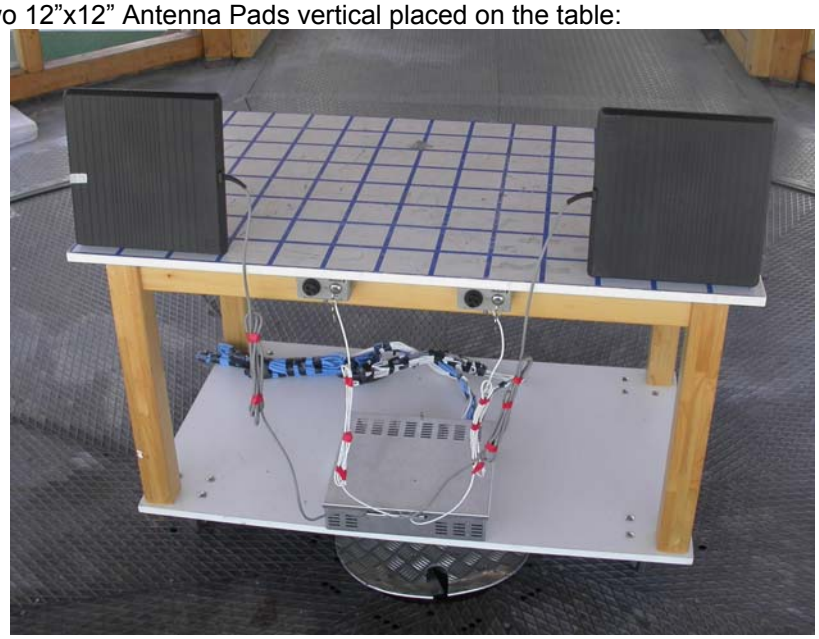
Test location: OATS1

Test distance: 10 metres

5.2.2 Photo documentation of the test set-up

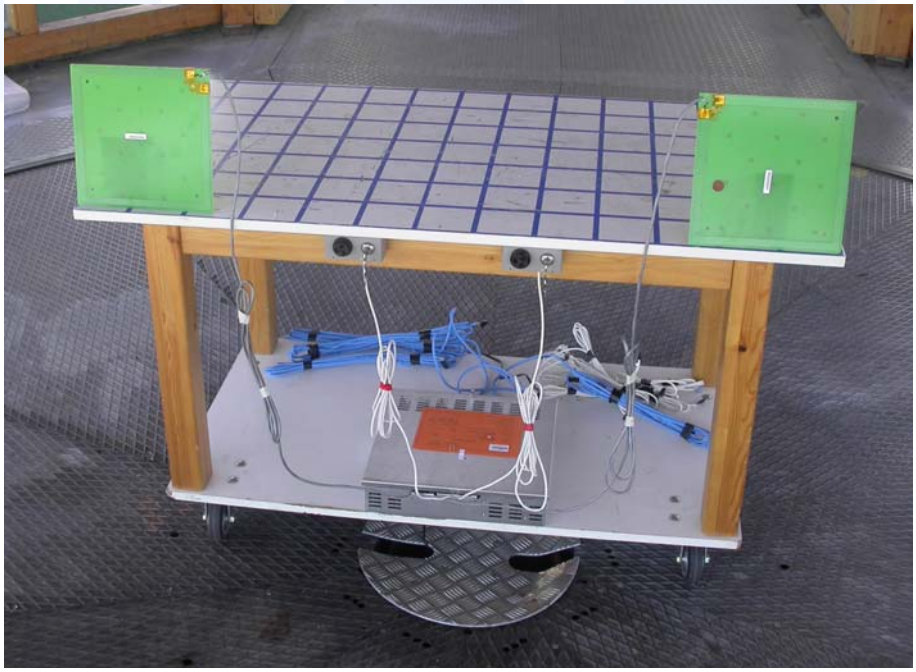
Counterpoint XI with two 12”x12” Antenna Pads horizontal placed on the table:

Counterpoint XI with two 12”x12” Antenna Pads vertical placed on the table:



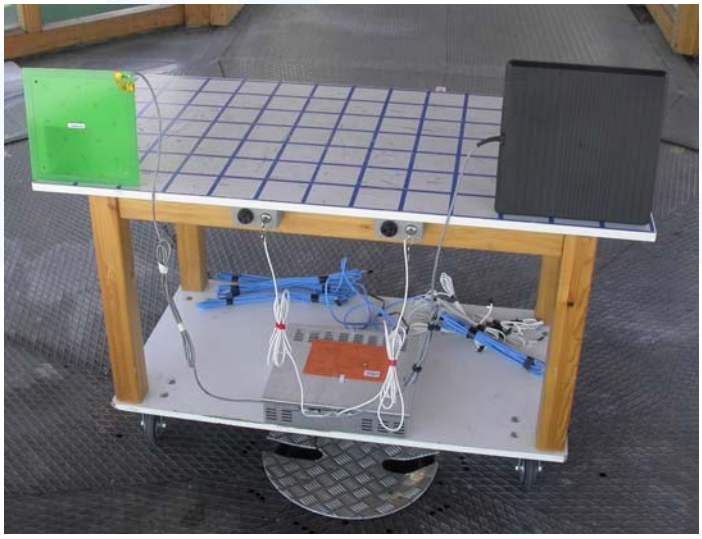
Counterpoint XI with two Sheet Deactivators horizontal placed on the table:

Counterpoint XI with two Sheet Deactivators vertical placed on the table:



Counterpoint XI with one 12”x12” Antenna Pad and one Sheet Deactivator horizontal placed on the table:

Counterpoint XI with one 12”x12” Antenna Pad and one Sheet Deactivator vertical placed on the table:



5.2.3 Description of Measurement

The magnetic field strength from the EuT will be measured on an open area test site in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The set up of the Equipment under test will be in accordance to ANSI C63.4-2003. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions. In the case where larger measuring distances are required the results will extrapolated based on the values measured on the closer distances according to Section 15.31 (f) (2) [2]. The final measurement will be performed with an EMI Receiver set to an average and a peak detector.

The final level, expressed in dBµV/m, is arrived at by taking the reading from the EMI receiver (Level dBµV) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.
The resolution bandwidth during the measurement was 300 kHz.