

**7.1 Radiated emission - Electromagnetic field (radiated – 30 MHz to 1 GHz)**

Test site: ☒ anechoic chamber (ferrites) ☐ anechoic chamber (foam)  
☐ semi-anechoic chamber (hybrid) ☐ open test site

Distance: ☐ 3 m ☒ 10 m ☐ 30m

Position of EUT: 0.8 m (height of the equipment under test above floor)

Meas. uncertainty:  $\pm 4.6$  dB (30 - 300 MHz) /  $\pm 3.7$  dB (300 - 1000 MHz)

Measuring method: The electromagnetic disturbance radiated by the equipment is measured using a spectrum analyser and a wide band antenna. The antenna is moved from 1 to 4 m in height successively with horizontal and vertical polarisations. The turning table is operated through 360° during the measurements. The recordings are carried out taking into account the maximum value of all the disturbances appearing while the apparatus is under test. The peak values are recorded continuously on the graph. The values exceeding a limit are remeasured manually using a receiver.

Test set-up:



Remarks: - - -

Test equipment:

|                    |                                           |                                 |                                           |                                            |                                            |                                            |
|--------------------|-------------------------------------------|---------------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| Spectrum analyser  | <input type="checkbox"/> 88-14            | <input type="checkbox"/> 02-06  | <input type="checkbox"/> 03-45            | <input type="checkbox"/> 05-39             | <input type="checkbox"/> 07-53             | <input checked="" type="checkbox"/> 10-70  |
| Receiver           | <input type="checkbox"/> 94-35            | <input type="checkbox"/> 04-29  | <input checked="" type="checkbox"/> 10-70 |                                            |                                            |                                            |
| Preamplifier       | <input type="checkbox"/> 90-01            | <input type="checkbox"/> 95-86  | <input type="checkbox"/> 05-56            | <input checked="" type="checkbox"/> 05-59  | <input type="checkbox"/> 05-62             | <input type="checkbox"/> 05-87             |
| Antenna, (log-per) | <input type="checkbox"/> 88-20            | <input type="checkbox"/> 90-30  | <input type="checkbox"/> 91-35            | <input type="checkbox"/> 94-64             |                                            |                                            |
| Antenna, (bilog)   | <input checked="" type="checkbox"/> 94-03 | <input type="checkbox"/> 05-38  |                                           |                                            |                                            |                                            |
| Cables             | <input type="checkbox"/> 06-00A           | <input type="checkbox"/> 06-00B | <input type="checkbox"/> 06-00C           | <input checked="" type="checkbox"/> 06-01A | <input checked="" type="checkbox"/> 06-01B | <input checked="" type="checkbox"/> 06-01C |

Result: ☒ pass ☐ fail ☐ not applicable ☐ partly tested