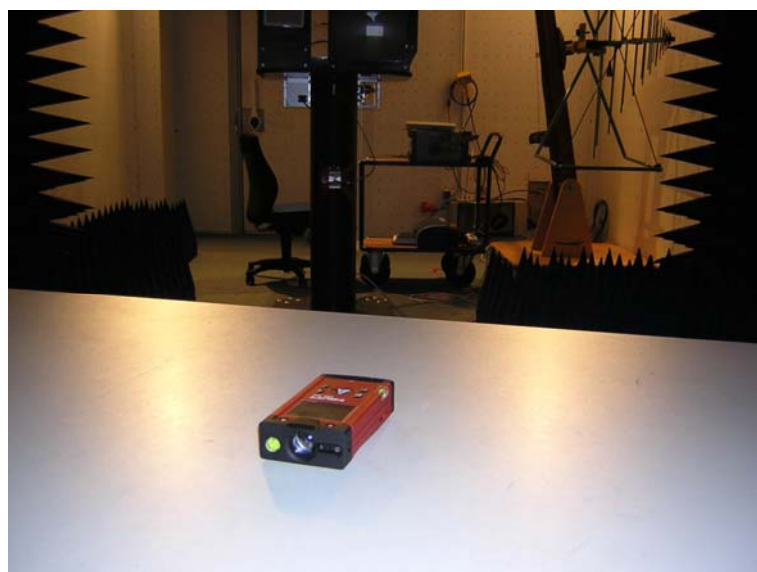


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Measurements are made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwidth set to 1 MHz. All tests are performed at a test-distance of 3 meters. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration procedure the highest emission relative to the limit and therefore shall be used for final testing. During the tests the EUT is rotated all around to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions. When the EUT is larger than the beamwidth of the measuring antenna, the measurement antenna will be moved over the surfaces for the four sides or the test distance will be reduced to demonstrate that emissions were at maximum at the limit distance.

Analyzer Settings:

- Detector: Max hold
- RBW: greater than 20 dB Bandwidth
- VBW: \geq RBW
- Sweep Time: Coupled

5.2.3 Photo documentation of the test set-up

5.3 Radiated emissions (electric field) 9 kHz – 40 GHz

For test instruments and accessories used see section 6 Part SER1, SER 2, SER 3.

5.3.1 Description of the test location

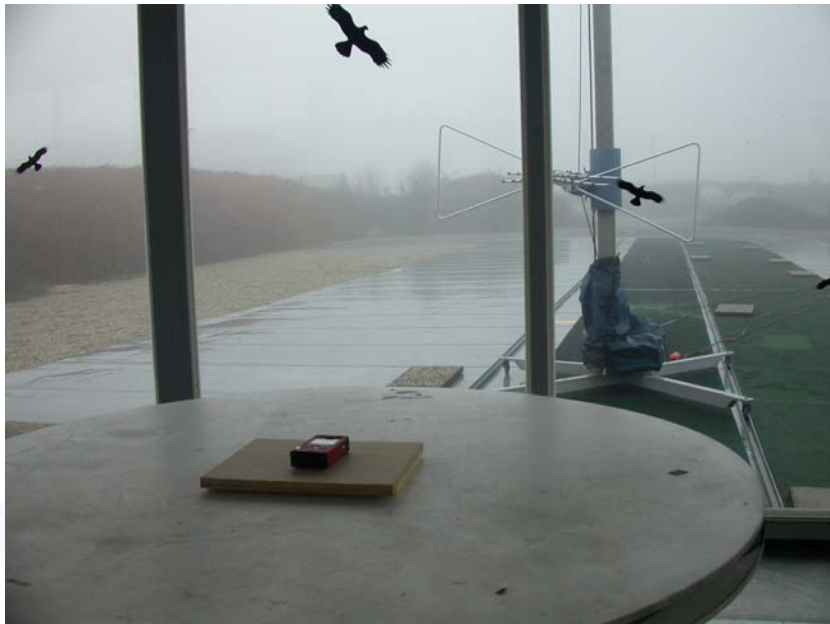
Test location: OATS1
Anechoic Chamber A2

Test distance: 3 metres

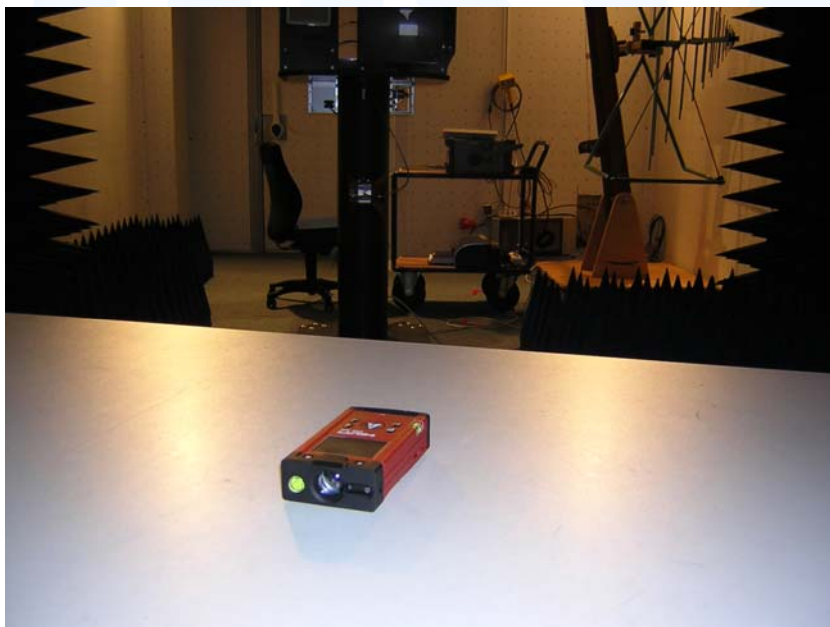
5.3.2 Photo documentation of the test set-up



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5.5 20 dB Bandwidth

For test instruments and accessories used see section 6 Part MB.

5.5.1 Description of the test location

Test location: AREA4

5.5.2 Photo documentation of the test set-up



5.5.3 Description of Measurement

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio of -20 dB. The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or the first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

The resolution bandwidth of measuring instrument was set to a value as shown in the following table below according to ANSI C63.4-2003.

Fundamental frequency	Minimum resolution bandwidth
9 kHz to 30 MHz	1kHz
30 to 1000 MHz	10 kHz
1000 MHz to 40 GHz	100 kHz

5.5.4 Test result

Channel Frequency [MHz]	20 dB Bandwidth [kHz]
2402	870
2441	864
2480	856

5.6 Band edge test

For test instruments and accessories used see section 6 Part MB.

5.6.1 Description of the test location

Test location: AREA4

5.6.2 Photo documentation of the test set-up



5.6.3 Description of Measurement

The EuT was connected to the spectrum analyzer with a suitable attenuator. The span of the spectrum analyzer was set wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation. The highest amplitude appearing on spectral display was measured and it was set as the reference level for the emission mask.

It was allowed the trace to stabilize and after then it was set the emission mask on the reference level to show the compliance with the bandedge requirements.

Further settings on the spectrum analyzer:

RBW: $\geq 1\%$ of the span
 VBW: \geq RBW
 Sweep: Auto
 Detector function: Peak

5.6.4 Test result

Frequency [MHz]	Peak Power Output [dBm]	Spurious emission read value [dBm]	Result of Band edge [dBc]	Band edge LIMIT [dBc]
< 2400	-40,77	-77,39	36,62	≥ 20
> 2483,5	-50,44	-80,62	30,18	≥ 20

Time of occupancy (Dwell Time)

For test instruments and accessories used see section 6 Part DC.

5.8.1 Description of the test location

Test location: AREA4

5.8.2 Photo documentation of the test set-up



5.8.3 Test result

Channel frequency [MHz]	Pulse Time [µs]	Bursts (in 1 second)	Time of occupancy (Dwell time) [ms]	Average time of Occupancy LIMIT [ms]
2441	106,96	100	337,99	400

Limit according to FCC Subpart 15.247 (1)(iii)

Frequency hopping systems shall be used at least 15 non-overlapping channels. The average time of occupancy on any channel shall no be greater than 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems which use fewer than 75 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels are used.

The requirements are **FULFILLED**.

Remarks: For detailed test result please refer to following test protocol.

5.9 Channel separation test

For test instruments and accessories used see section 6 Part MB.

5.9.1 Description of the test location

Test location: AREA4

5.9.2 Photo documentation of the test set-up



5.9.3 Test result

Channel 0 [MHz]	Channel 1 [MHz]	Separation Value [kHz]	Separation LIMIT [kHz]
2402,18	2403,16	980	≥ 870

Limit according to FCC Subpart 15.247 (1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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5.13 Receiver radiated emissions (electric field) 9 kHz - 40 GHz

For test instruments and accessories used see section 6 Part SER1, SER2 and SER3.

5.13.1 Description of the test location

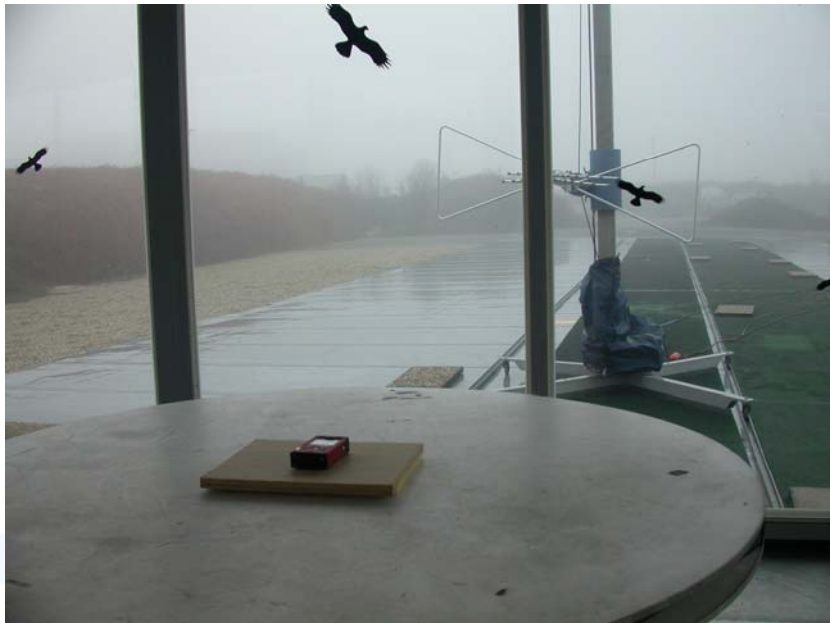
Test location: OATS1
Anechoic Chamber A2

Test distance: 3 metres

5.13.2 Photo documentation of the test set-up



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