

Test conditions and results

Unwanted emissions in restricted bands, radiated

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

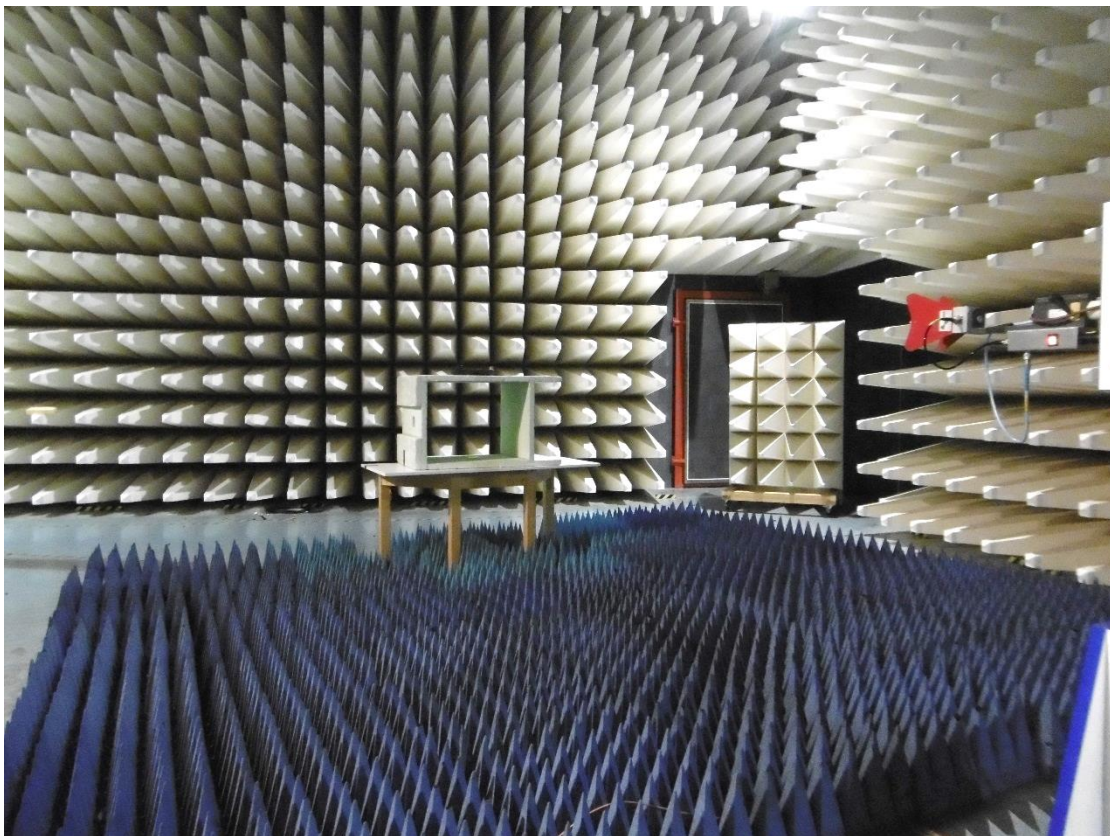
Description of the test location

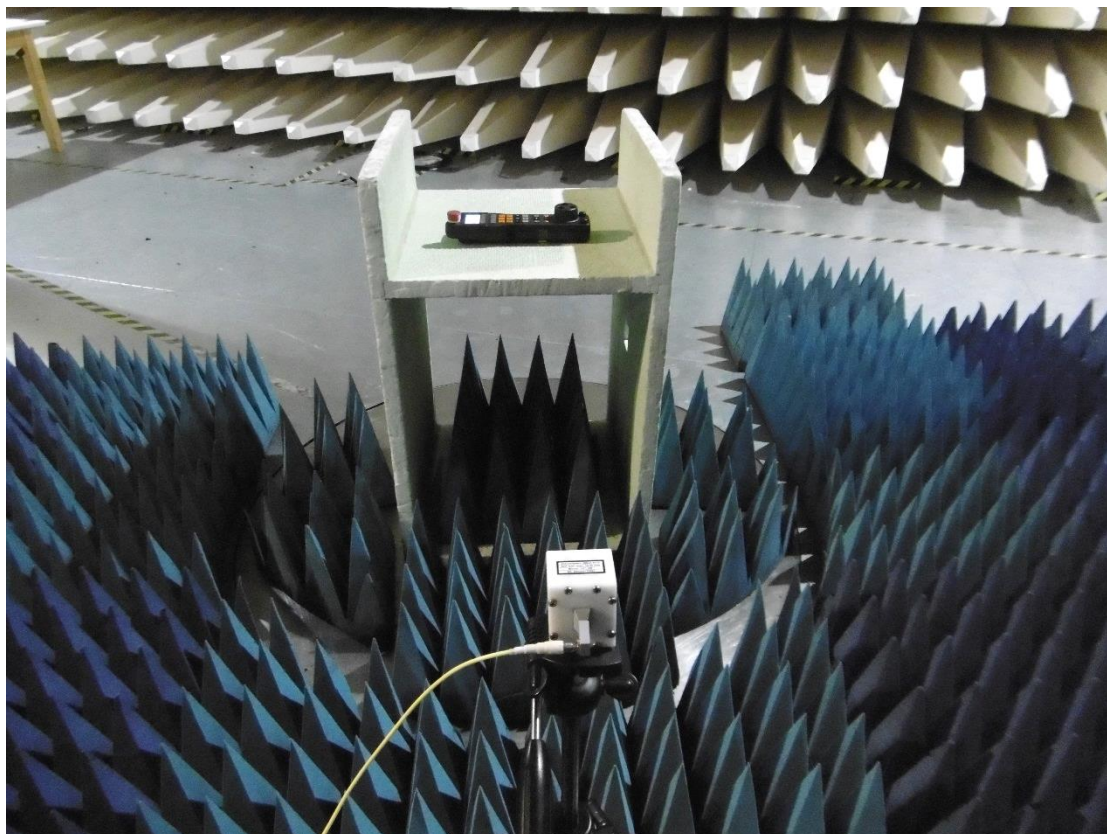
Test location: OATS 1
Test location: Anechoic chamber 1

Test distance: 3 m
Test distance: 1 m (18-26 GHz)

Photo documentation of the test set-up – Detailed photos see ATTACHMENT A







Applicability

According to FCC Part 15, Section 15.205(a):

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limit specified in Section 15.209(a).

Description of Measurement

The restricted bands are measured radiated. The span of the spectrum analyser is set wide enough to capture the restricted band and measure the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation. The restricted bands are measured falling emissions into it and the nearest restricted band are checked for emissions also the restricted band for the harmonics of the carrier.

Spectrum analyser settings:

30 MHz – 1000 MHz: RBW: 120 kHz

1000 MHz – 26 GHz: RBW: 1 MHz, VBW: 3 MHz, Sweep: Auto, Detector function: Peak

Test result

$f < 1$ GHz:

Frequency (MHz)	Reading Vert. (dB μ V)	Reading Hor. (dB μ V)	Correct. Vert. (dB)	Correct. Hor. (dB)	Level Vert. (dB μ V/m)	Level Hor. (dB μ V/m)	Limit (dB μ V/m)	Dlimit (dB)
52.21	3.4	4.2	15.1	14.1	18.5	18.3	40.0	-21.5
61.82	5.3	8.8	14.6	13.7	19.9	22.5	40.0	-17.5
328.00	12.7	20.3	17.7	17.3	30.4	37.6	46.0	-8.4
829.00	3.5	4.1	30.0	29.5	33.5	33.6	46.0	-12.4
886.00	3.1	3.2	30.9	30.5	34.0	33.7	46.0	-12.0